ANNUAL (FOURTH QUARTER) 2016 GROUNDWATER SAMPLING REPORT

FORT MONMOUTH, OCEANPORT, MONMOUTH COUNTY, NEW JERSEY

BRAC 05 Facility
Contract W912DY-09-D-0062
Task Order: 0012, Project No. 369857

Submitted To:

U.S. Army Corps of Engineers, New York District

and

U.S. Army Engineering and Support Center Huntsville, Alabama

Prepared By:

PARSONS
401 Diamond Dr. NW, Huntsville, AL 35806

Revision No. 0
October 2017

New Jersey Department of Environmental Protection
Site Remediation Program

Report Certifications for RCRA GPRA 2020, CERCLA, and Federal Facility Sites

These certifications are to be used for reports submitted for RCRA GPRA 2020, CERCLA, and Federal Facility Sites. The Department has developed guidance for report certifications for RCRA GPRA 2020, CERCLA, and Federal Facility Sites under traditional oversight. The "Person Responsible for Conducting the Remediation Information and Certification" is required to be submitted with each report. For those sites that are required or opt to use a Licensed Site Remediation Professional (LSRP) the report must also be certified by the LSRP using the "Licensed Site Remediation Professional Information and Statement". For additional guidance regarding the requirement for LSRPs at RCRA GPRA 2020, CERCLA and Federal Facility Sites see http://www.nj.gov/dep/srp/srra/training/matrix/quick_ref/rcra_cercla_fed_facility_sites.pdf.

Document: "2016 Annual Groundwater Sampling Report, Fort Monmouth Oceanport NJ"

PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: William R. Colvin
Representative First Name: William Representative Last Name: Colvin
Title: Fort Monmouth BRAC Environmental Coordinator (BEC)
Phone Number: (732) 380-7064 Ext: Fax:
Mailing Address: P.O. Box 148
City/Town: Oceanport State: NJ Zip Code: 07757
Email Address: william.r.colvin18.civ@mail.mil

This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: William R. Colvin Date: 10/20/2017

Name/Title: William R. Colvin, PMP, CHMM, PG
BRAC Environmental Coordinator

Completed form should be sent to:

Mr. Ashish Joshi
New Jersey Department of Environmental Protection
Division of Remediation Management & Response
Bureau of Northern Field Operations
7 Ridgedale Avenue (2nd Floor)
Cedar Knolls, New Jersey 07927-1112

ANNUAL (FOURTH QUARTER) 2016 GROUNDWATER SAMPLING REPORT

Client Name:	**U.S. Army Engineering & Support Center (CEHNC)**
Contract Name:	**Remedial Investigation/Feasibility Study/Decision Documents, Fort Monmouth, Oceanport, Monmouth County, New Jersey**
Contract Number:	**W912DY-09-D-0062, Task Order 0012, Project No. 369857**
Contractor:	**Parsons Government Services, Inc.**
Period of Performance:	**30 September 2012 to 30 September 2019**
Date of Original:	**October 2017**
Revision:	**0**

October 2017

Reviewed and Approved by:

Project Manager: _____ 10/20/2017
Christina Grill, P.G. Date

Program Manager: _____ 10/20/2017
Don Silkebakken, V.P. Date

TABLE OF CONTENTS

List of Tables ii
List of Figures ii
List of Appendices ii
List of Acronyms iii
1.0 INTRODUCTION 1-1
1.1 Purpose and Scope 1-1
1.2 Report Organization 1-1
2.0 GROUNDWATER SAMPLING PROGRAM 2-1
2.1 Introduction 2-1
2.1.1 Water Level Measurements 2-1
2.1.2 Monitoring Well Assessment 2-1
2.1.3 Groundwater Sampling 2-1
2.1.4 Changes to Groundwater Sampling Program 2-2
2.1.5 QA/QC Sampling 2-2
2.2 Deviations from QAPP and SAP 2-3
2.3 Usability of Laboratory Analytical Data 2-3
3.0 APPLICABLE REMEDIAL STANDARDS 3-1
3.1 Anomalous Results 3-1
4.0 FINDINGS AND RECOMMENDATIONS 4-1
5.0 REFERENCES 5-1

LIST OF TABLES

Table 1 Monitoring Well Locations
Table 2 Groundwater Sampling Summary
Table 3 Groundwater Sampling Deviations
Table 4 Summary of Long Term Groundwater Monitoring Recommendations

LIST OF FIGURES

Figure 1.1 Fort Monmouth Location
Figure 1.2 Main Post Layout
Figure 1.3 Charles Wood Area Layout

LIST OF APPENDICES

Appendix A FTMM-58: Building 2567 UST Gasoline
Appendix B FTMM-64: Building 812 UST Gasoline
Appendix C Data Validation Memorandum
Appendix D Laboratory Analytical Results (CD)
Appendix E NJDEP Correspondence

LIST OF ACRONYMS

ACRONYM	DEFINITION
Accutest	Accutest Laboratories
amsl	above mean sea level
BRAC	Base Closure and Realignment
CEA	Classification Exemption Area
CEHNC	United States Army Engineering & Support Center, Huntsville
CWA	Charles Wood Area
DoD	Department of Defense
ELAP	Environmental Laboratory Accreditation Program
FTMM	Fort Monmouth
FS	feasibility study
FSPM	Field Sampling Procedures Manual
GWQS	Ground Water Quality Standards
HASP	health and safety plan
LFPS	low-flow purging and sampling
LTM	Long term monitoring
MCL	Maximum Contaminant Level
MP	Main Post
NELAP	National Environmental Laboratory Accreditation Program
NJDEP	New Jersey Department of Environmental Protection
Parsons	Parsons Federal, Inc.
PDB	passive diffusion bag
PVC	polyvinyl chloride
QA	quality assurance
QAPP	quality assurance project plan
QC	quality control
QSM	Quality Systems Manual
RI	remedial investigation
SAP	sampling analysis plan
SVOC	semi-volatile organic compound
TBA	tert-butyl alcohol
TCL	target compound list
TRSR	Technical Requirements for Site Remediation
USEPA	United States Environmental Protection Agency

ACRONYM	DEFINITION
VC	vinyl chloride
VOC	volatile organic compounds
WERS	Worldwide Environmental Restoration Services

1

1.0 INTRODUCTION

This report presents the results for the annual (fourth quarter) 2016 groundwater sampling event performed at two sites within Fort Monmouth (FTMM) by Parsons Government Services, Inc. (Parsons) to support the Remedial Investigation (RI), Feasibility Study (FS), and Decision Documents project at FTMM, Oceanport, Monmouth County, New Jersey.

The work was conducted under the Worldwide Environmental Restoration Services (WERS) contract number W912DY-09-D-0062 of the United States Army Engineering & Support Center, Huntsville (CEHNC).

The activities discussed within this report were conducted in accordance with:

- New Jersey Department of Environmental Protection (NJDEP) Technical Requirements for Site Remediation (TRSR) (N.J.A.C. 7:26E); and
- NJDEP Field Sampling Procedures Manual (FSPM) (April 2009).

1.1 PURPOSE AND SCOPE

Groundwater sampling was conducted between October 20 and October 21, 2016. The sampling program implemented is consistent with the recommendations for quarterly/annual sampling made in the August 2013 Baseline Groundwater Sampling Report (Parsons, 2014), and accepted by the NJDEP in a letter dated February 5, 2015. Additional recommendations were made in the Annual (Fourth Quarter) 2014 Groundwater Sampling Report (Parsons, 2015) and the Annual (Fourth Quarter) 2015 Groundwater Sampling Report (Parsons, 2016) which were accepted by the NJDEP in their letters dated January 26, 2016 and November 14, 2016. Analytical results for the samples collected in 2016 were also used to evaluate the FTMM long-term groundwater sampling program and the potential for removal of monitoring wells or analytes in comparison to historical groundwater concentrations.

1.2 REPORT ORGANIZATION

This Annual (Fourth Quarter) 2016 Groundwater Sampling Report includes the following sections:

- Section 1 provides an introduction and describes the organization of the report;
- Section 2 presents general information on the annual (fourth quarter) 2016 groundwater sampling event, a description of any significant deviations or events that may have impacted results, and the usability of laboratory analytical data;
- Section 3 provides the applicable remedial standards;
- Section 4 summarizes the findings and recommendations for the two FTMM groundwater sampling program sites (FTMM-58 and FTMM-64);
- Section 5 presents the references used in preparation of this report;
- Appendices A and B provide historical groundwater analytical results, annual 2016 groundwater analytical results, and the findings and recommendations for FTMM-58 and FTMM-64, respectively;
- Appendix C provides a memorandum regarding data validation for the 2016 annual sampling event;

- Appendix D provides the laboratory analytical reports, which are included as a CD; and
- Appendix E provides relevant communication with the NJDEP regarding groundwater sampling at FTMM.

2.0 GROUNDWATER SAMPLING PROGRAM

2.1 INTRODUCTION

Work performed as part of the FTMM groundwater sampling program was conducted as outlined in the project's Sampling and Analysis Plan (SAP) (Parsons, 2013), and Health and Safety Plan (HASP) (Parsons, 2013). This annual (2016) groundwater sampling event involved depth-to-water level measurements and collection of groundwater samples from three monitoring wells located on site FTMM-58 on the Charles Wood Area (CWA) and one monitoring well located on site FTMM-64 on the Main Post (MP). **Table 1** presents the site name, location area, number of wells on the site and number of wells sampled (Table 1 also includes sites where the NJDEP agreed with the recommendation for biennial sampling and to discontinue or temporarily suspend groundwater sampling.) Prior to groundwater sampling activities, a site reconnaissance was performed to locate each monitoring well and assess its condition and accessibility. The location of FTMM and the two sites discussed within this report (FTMM-58 and FTMM-64) are provided on **Figure 1.1**, **Figure 1.2**, **and Figure 1.3**.

Further details regarding groundwater sampling activities and results for both sites can be found in **Appendices A and B**.

2.1.1 Water Level Measurements

Between October 20 and October 21, 2016, depth-to-water measurements were collected from site monitoring wells prior to initiating sampling activities. Levels were obtained with an oil water interface probe from the top of the inner casing of the well. The water level probe was decontaminated in accordance with the SAP. Water level measurements were used to calculate the groundwater elevations, and confirm the previously determined groundwater flow direction. Groundwater contour figures for the two sites discussed within this report are provided in **Appendices A and B**.

2.1.2 Monitoring Well Assessment

During depth-to-water measurement in the monitoring wells, the condition of each monitoring well was assessed. Wells were visually inspected for physical damage, obstructions, or the presence of pump tubing in the well casing. The depth to the bottom of each monitoring well was also gauged and compared to the installed depth in order to determine if there was sediment build up in the well. The condition of the monitoring wells at each of the two FTMM sites is presented in Section 1.0 of **Appendices A and B** for FTMM-58 and FTMM-64, respectively**.**

2.1.3 Groundwater Sampling

Groundwater samples were collected from four monitoring wells between October 20 and October 21 of 2016 using low-flow purging and sampling (LFPS) sampling methods. No wells were sampled using Passive Diffusion Bags (PDBs) during this sampling event. Vertical profiling of well screens for each fully saturated five-foot interval was not performed during the annual 2016 groundwater sampling event because it was performed in previous sampling events.

A groundwater sampling summary, including the Site name, well identification, analytical analysis, sampling method, and the sample date is presented in **Table 2**.

ALS Environmental of Middletown, PA (NJ cert. #PA010) served as the primary analytical laboratory for the 2016 annual (fourth quarter) groundwater sampling event. Samples were shipped

on ice under chain of custody to ALS Environmental via lab courier. Accutest Laboratories (Accutest) of Dayton, NJ (NJ cert. #12129) served as the quality assurance (QA) laboratory. Five percent of groundwater samples collected were "split" and submitted to both ALS Environmental and Accutest consistent with the SAP. Both ALS Environmental and Accutest are Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP) and National Environmental Laboratory Accreditation Program (NELAP) certified laboratories that follow the project specifications of the DoD Quality Systems Manual (QSM) Version 4.1 or the latest version.

Water generated during the groundwater sampling was passed through portable granular activated carbon buckets and discharged to the ground surface adjacent to the well sampled.

2.1.4 Changes to Groundwater Sampling Program

Long term monitoring (LTM) of groundwater was discontinued at FTMM-56, FTMM-57, and FTMM-66 based on the recommendations of the Annual (Fourth Quarter) 2015 Groundwater Sampling Report (Parson, September 2016), which was approved by the NJDEP in their November 14, 2016 letter.

LTM of the groundwater was temporarily suspended at FTMM-22, FTMM-53, FTMM-59, and FTMM-68, which was approved by the NJDEP in their March 16, 2016 letter. These sites are currently in the remedial investigation (RI) phase and the field work has been completed (FTMM-22, FTMM-53 and FTMM-59) or will be completed in the near future (FTMM-68). Once the RI Reports (RIR), any necessary feasibility studies (FSs), and proposed plans have been completed and a remedy has been selected under a decision document, a revised LTM program for the groundwater will be submitted for these sites as appropriate to support the Classification Exemption Area (CEA).

RI reports have been submitted to the NJDEP for the four landfills (FTMM-02, FTMM-05, FTMM-08 and FTMM-18) which were sampled under the LTM groundwater program. The NJDEP agreed in their November 2016 letter that future sampling of these four sites will be performed and reported under a Biennial CEA that will be revised for FTMM-02 and established for the other sites. It is anticipated that sampling for the CEA will occur in 2018 after the submittal of the CEA documentation to the NJDEP.

Downgradient well 2567MW05 was added to the annual monitoring of tert-butyl alcohol (TBA) at FTMM-58, in addition to wells 2567MW01 and 2567MW03, based on the recommendations of the Annual (Fourth Quarter) 2015 Groundwater Sampling Report (Parson, September 2016), which was approved by the NJDEP in their November 14, 2016 letter.

The above changes resulted in only four wells being sampled for the Annual (Fourth Quarter) 2016 Groundwater Sampling Event.

2.1.5 QA/QC Sampling

Quality Assurance/Quality Control (QA/QC) samples were collected in accordance with the NJDEP FSPM and the Quality Assurance Project Plan (QAPP), which is included as part of the SAP.

2.2 DEVIATIONS FROM QAPP AND SAP

Deviation from the SAP for this sampling event are summarized in **Table 3**. In general, there were no significant deviations that could have adversely affected the sampling procedures or the results of the groundwater sampling presented in this report.

2.3 USABILITY OF LABORATORY ANALYTICAL DATA

A Level IV validation was performed on analytical data collected during the annual (fourth quarter) 2016 groundwater sampling event. Per the project QAPP, the validation for long term monitoring data includes a minimum of one report per sampling event or 33% of the data throughout the project, whichever is less. The data submitted by the laboratory has been reviewed and validated as per the SAP and was found to be usable for the purposes of this project. The Data Validation and the Data Verification Summary Reports are provided in **Appendix C** and complete laboratory analytical reports for groundwater samples collected are provided in **Appendix D** (on CD). The data validation performed meets the substantive requirements of the NJDEP's *Analytical Laboratory Data Generation, Assessment, and Usability Technical Guidance* (April 2014).

3.0 APPLICABLE REMEDIAL STANDARDS

For FTMM, the applicable remediation standards for groundwater are the NJDEP Ground Water Quality Standards (GWQS) for Class IIA waters and the United States Environmental Protection Agency (USEPA) Maximum Contaminant Levels (MCLs) for Chemical Contaminants at Superfund Sites for Tap Water.

Both the GWQS and the USEPA MCL are provided in historical and these 2016 groundwater data tables for reference purposes. If a chemical compound has a GWQS then that standard is used and the USEPA MCLs are used for those compounds where a GWQS is not established.

3.1 ANOMALOUS RESULTS

An anomaly is an exceedance of the applicable criteria that is not attributable to background concentrations and/or Site contamination. It typically succeeds and precedes non-exceedance sample results and is not representative of historical data for that location. Anomalies can be caused by sample equipment, laboratory equipment, seasonality changes, etc. No anomalous results were reported during this annual sampling event.

4.0 FINDINGS AND RECOMMENDATIONS

Both sites FTMM-58 and FTMM-64 are discussed in Appendix A and Appendix B, respectively. For each site, historical data from the last four previous quarterly sampling events or the last two annual sampling events [in this case the 2014 annual (4th quarter) sampling event and the 2015 annual (4^{th} quarter) sampling event] along with data collected during the annual 2016 sampling event, were evaluated to determine whether or not further sampling is warranted. Analytical results were evaluated to determine if the detection was an anomaly, potentially part of an overall trend, or affected by seasonal changes. The 2016 groundwater sampling results and recommendations for each of the two sites are discussed in individual appendices to this report. A summary of long term groundwater monitoring recommendations for 2017 is presented in **Table 4.**

5.0 REFERENCES

FTMM. *Letter from Ms. Wanda Green, BRAC Environmental Coordinator at Fort Monmouth, to Ms. Linda Range, Bureau of Case Management.* November 26, 2014.New Jersey Department of Environmental Protection. *Field Sampling Procedures Manual*, August 2005, Revised April 2009.

New Jersey Department of Environmental Protection. *Technical Requirements for Site Remediation,* May 2012.

New Jersey Department of Environmental Protection. *Analytical Laboratory Data Generation, Assessment, and Usability Technical Guidance,* April 2014.

New Jersey Department of Environmental Protection. *Letter from Ms. Linda Range, Bureau of Case Management, to Ms. Wanda Green, BRAC Environmental Coordinator at Fort Monmouth.* February 5, 2015.

New Jersey Department of Environmental Protection. *Letter from Ms. Linda Range, Bureau of Case Management, to Mr. William Colvin, BRAC Environmental Coordinator at Fort Monmouth.* January 26, 2016.

New Jersey Department of Environmental Protection. *Letter from Ms. Linda Range, Bureau of Case Management, to Mr. William Colvin, BRAC Environmental Coordinator at Fort Monmouth.* January 26, 2016.

New Jersey Department of Environmental Protection. *Letter from Ms. Linda Range, Bureau of Case Management, to Mr. William Colvin, BRAC Environmental Coordinator at Fort Monmouth.* March, 16 2016.

New Jersey Department of Environmental Protection. *Letter from Ms. Linda Range, Bureau of Case Management, to Mr. William Colvin, BRAC Environmental Coordinator at Fort Monmouth.* November 14, 2016.

New Jersey Department of Environmental Protection. *Letter from Ms. Gwen Zervas, Bureau of Case Management, to Mr. William Colvin, BRAC Environmental Coordinator at Fort Monmouth.* April 28, 2017.

Parsons. *Sampling and Analysis Plan for Remedial Investigation/Feasibility Study/Decision Documents*. March 2013.

Parsons. *August* 2013 *Baseline Groundwater Sampling Report.* March 2014.

Parsons. *Annual (Fourth Quarter) 2014 Groundwater Sampling Report.* December 2015.

Parsons. *Annual (Fourth Quarter) 2015 Groundwater Sampling Report.* September 2016.

TABLES

Table 1 Monitoring Well Locations
Table 2 Groundwater Sampling Summary
Table 3 Groundwater Sampling Deviations
Table 4 Summary of Long Term Groundwater Monitoring Recommendations

Table 1
Monitoring Well Locations
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Site	Area	Wells on the Site	Groundwater Monitoring Status
FTMM-02: M2 - Landfill	MP	16	Existing CEA to be Revised
FTMM-03: M3 - Landfill	MP	13	Groundwater NFA Approved 6/2/2017
FTMM-04: M4 - Landfill	MP	6	Groundwater NFA Approved 5/15/2017
FTMM-05: M5 - Landfill	MP	10	CEA Planned
FTMM-08: M8 - Landfill	MP	14	CEA Planned
FTMM-12: M12 - Landfill	MP	16	Groundwater NFA Approved 5/15/2017
FTMM-14: M14 - Landfill	MP	6	Groundwater NFA Approved 5/15/2017
FTMM-18: M18 - Former Training Area/Landfill	MP	8	CEA Planned
FTMM-22: M22 - (CW-1) Wastewater Treat Lime Pit, BLDG-2700	CW	17	Groundwater Monitoring Temporarily Suspended during RI/FS completion - CEA Planned
FTMM-25: M25 - (CW-3A) Landfill	CW	4	Groundwater NFA Approved 2/2/2017
FTMM-53: M53 - BLDG 699, Gasoline Storage	MP	14	Groundwater Monitoring Temporarily Suspended during Remedial Action Work Plan (RAWP) completion - CEA Planned
FTMM-54: M54 - BLDG 296, Gasoline Storage	MP	7	NFA Approved 5/4/2016
FTMM-55: M55 - BLDG 290, UST Gasoline	MP	1	NFA Approved 11/29/2016
FTMM-56: M56 - BLDG 80, Petroleum Release	MP	6	NFA Approved 5/2/2017
FTMM-57: M57 - BLDG 108, UST Gasoline Release	MP	4	NJDEP Agreed to Discontinue Groundwater Monitoring[1/]
FTMM-58: M58 - Parcel 34 - BLDG 2567, UST Gasoline	CW	7	Additional RI Groundwater Characterization (Ongoing)
FTMM-59: M59 - BLDG 1122, Auto Hobby Shop	MP	7	CEA Planned
FTMM-61: M61 - BLDG 283, Leaking UST Gasoline	MP	4	NFA Approved 5/4/2017
FTMM-64: M64 - BLDG 812, UST Gasoline	MP	8	Groundwater NFA Approved 4/28/2017
FTMM-66: M66 - BLDG 866, Former AST	MP	13	NJDEP Agreed to Discontinue Groundwater Monitoring[1/]
FTMM-68: M68 - BLDG 700, Former UST	MP	27	Additional RI Groundwater Characterization (Ongoing)
	Total	208	

Notes:

MP - Main Post Area

CW - Charles Wood

[1/] Wells have been discontinued or frequency changed to biennial sampling based on recommendations in the Annual (Fourth Quarter) 2015 Groundwater Sampling Report as approved by the NJDEP in their Nov. 14, 2016 comment letter.

Table 2
Groundwater Sampling Summary
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Site Name/Well ID[1/]	Analytical Analysis	Status	Sample Date
FTMM-02, M2 - Landfill: CEA Revision Required			
FTMM-03, M3 - Landfill: Groundwater NFA			
FTMM-04, M4 - Landfill: Groundwater NFA			
FTMM-05, M5 - Landfill: CEA Planned			
FTMM-08, M8 - Landfill: CEA Planned			
FTMM-12, M12 - Landfill: Groundwater NFA			
FTMM-14, M14 - Landfill: Groundwater NFA			
FTMM-18, M18 - Former Training Area/Landfill: CEA Planned			
FTMM-22, M22 - (CW-1) Wastewater Treat Lime Pit, BLDG-2700: CEA Planned			
FTMM-25, M25 - (CW-3A) Landfill: Groundwater NFA			
FTMM-53, M53 - BLDG 699, Gasoline Storage: CEA Planned			
FTMM-54, M54 - BLDG 296, Gasoline Storage: NFA			
FTMM-55, M55 - BLDG 290, UST Gasoline: NFA			
FTMM-56, M56 - BLDG 80, Petroleum Release: NFA			
FTMM-57, M57 - BLDG 108, UST Gasoline Release: NJDEP Agreed to Discontinue Groundwater Monitoring			
FTMM-58, M58 - Parcel 34-BLDG 2567, UST Gasoline: Additional RI Groundwater Characterization (ongoing)			
2567MW01	VOCs-EPA Method 8260C-TBA Only	Low Flow Purging and Sampling (LFPS)	10/21/2016
2567MW02			10/21/2016
2567MW03			10/21/2016
FTMM-59, M59 - BLDG 1122, Auto Hobby Shop: CEA Planned			
FTMM-61, M61 - BLDG 283, Leaking UST Gasoline: NFA			
FTMM-64, M64 - BLDG 812, UST Gasoline: Groundwater NFA			
812MW04	VOCs & TICs-EPA Method 8260C	LFPS	10/20/2016
FTMM-66, M66 - BLDG 866, Former AST: NJDEP Agreed to Discontinue Groundwater Monitoring			
FTMM-68, M68 - BLDG 700, Former UST: Additional RI Groundwater Characterization (ongoing)			

[1/] See Table 1 for additional details on status of groundwater monitoring for each site.

Table 3
Groundwater Sampling Deviations
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Well	Site	Sampling Method	Deviation/Comments
ALL			Purged groundwater was passed through granular activated carbon bucket at the well prior to being discharged to the ground surface, instead of being staged in 55-gallon drums for offsite disposal.

Notes:
1. LFPS = Low-Flow Purging and Sampling
2. PDB = Passive Diffusion Bags
3. N/A = not applicable

Table 4
Summary of Long Term Groundwater Monitoring Recommendations
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Site	Annual 2016 Sampling				Annual 2016 Exceedances[1]			LTM Groundwater Program-Recommended Future Sampling[2]					Comments
	Number of MWs sampled	Monitoring wells sampled	Analysis	Sampling methodology	MWs Exhibiting Exceedances	Analytes	Historical High Concentrations[3] (µg/L)	Number of MWs to be sampled	MWs to be sampled	Analysis	Sampling Methodology	Frequency	
FTMM-58	3	2567MW01, 2567MW03, 2567MW05	VOC-EPA Method 8260C - TBA Only	LFPS	2567MW01	TBA	**TBA** Historic = 829 (2010) 2016 4Q = 344	2	2567MW01, 2567MW05	VOC-EPA Method 8260C - TBA Only	LFPS	Tempora;y suspend	TBA remains above NJDEP GWQS at 2567MW01; downgradient monitoring provided with well 2567MW05. Recommend temporarily suspending LTM program while characterization of the site is being completed under the RI process. Once RI/FS is completed and remedy accepted, a revised GW LTM program will be submitted to support a CEA.
FTMM-64	1	812MW04	VOCs & TICs-EPA Method 8260C	LFPS	None	None	N/A	None	None	None	None	Discontinued	Confirmed VC as non-detect; NJDEP has approved No Further Action for FTMM-64 groundwater in their April 28, 2017 letter.

Notes:

EPA = Environmental Protection Agency
GWQC = Ground Water Quality Criteria
LFPS = low-flow purge and sample
MCL = Maximum Contaminant Level
MWs = monitoring wells
N/A = not applicable
VC = vinyl chloride
NJDEP = New Jersey Department of Environmental Quality
TBA = Tert-Butyl Alcohol
VC = vinyl chloride
VOCs = volatile organics compounds

1. Exceedance is defined as a parameter that was greater than NJDEP GWQC or EPA MCL if a NJDEP GWQC has not been established for a compound.
2. The recommendations are for future continued monitoring of groundwater conditions.
3. Comparison between highest historic concentrations and 2016 (Fourth Quarter) highest concentration.

FIGURES

Figure 1.1 Fort Monmouth Location
Figure 1.2 Main Post Layout
Figure 1.3 Charles Wood Area Layout

Legend

Installation Boundary

Site Description:
Fort Monmouth
Main Post & Charles Wood Area
Monmouth County, NJ
Longitude: 74˚ 2' 33.39" W
Latitude: 40˚ 18' 49.33" N
Longitude and Latitude represent the center point of Main Post.

N

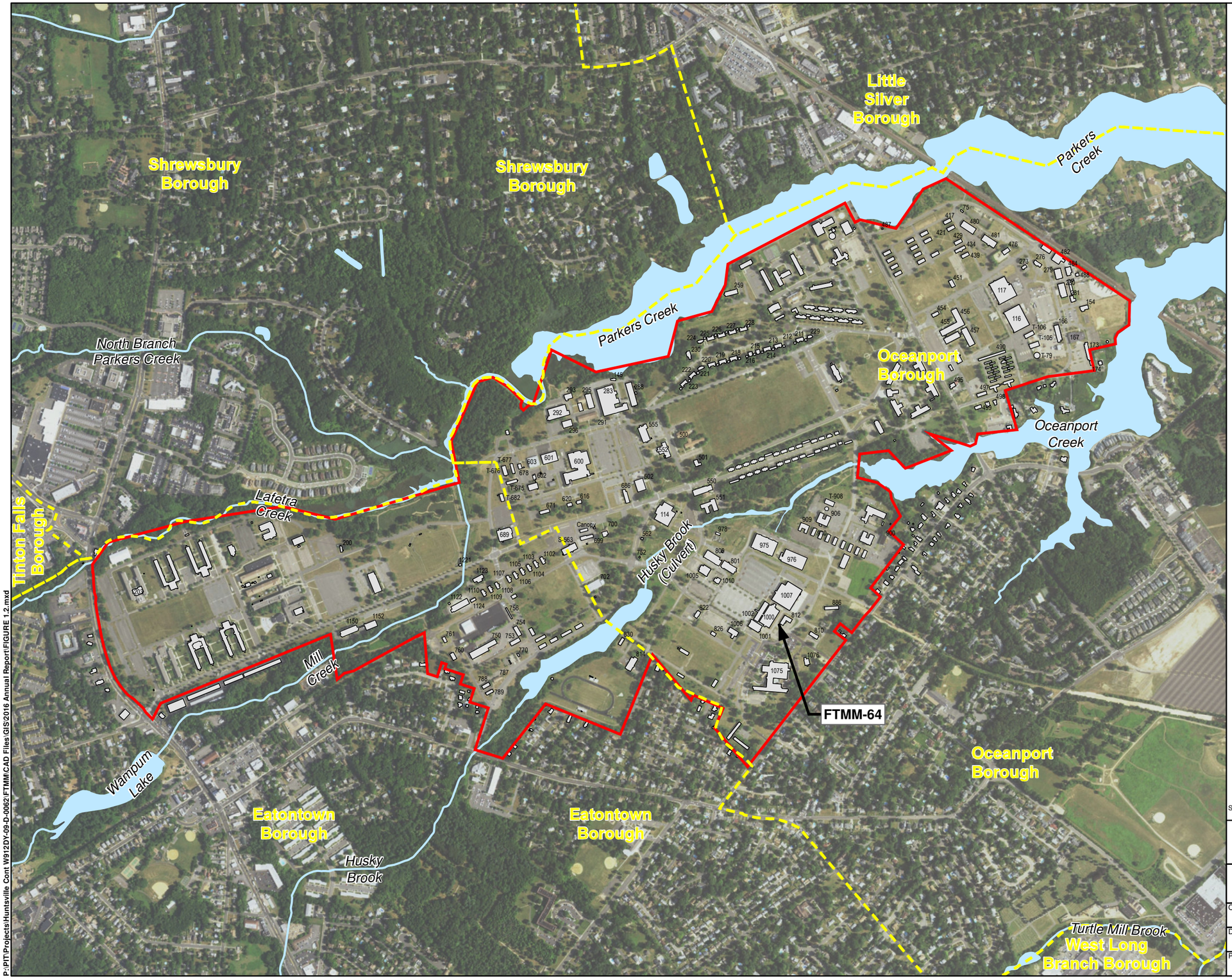
1 inch = 2,500 feet

0 0.5 1 Miles

Source: Bing Maps online imagery; ESRI Data and Maps 2011.

PARSONS 401 Diamond Drive NW, Huntsville AL	**Fort Monmouth** **New Jersey**
Fort Monmouth Location	
CREATED BY: TS	REVIEWED BY: IG
DATE: March 2013	FIGURE NUMBER: Figure 1.1
PROJECT NUMBER: 748810.01000	FILE: Figure1-1_GW_Location.mxd

J:\748\748810 Fort Monmouth\GIS\MXD\GWFigure1-1_GW_Location.mxd



LEGEND:

- Municipal Boundary
- Installation Boundary
- Building
- Surface Water Feature

N

1 inch = 1,000 feet

0 500 1,000 2,000 Feet

Source: FTMM Supplied CAD, 2013; ESRI Data and Maps, 2011; USGS NHD, 2012.

PARSONS 401 Diamond Drive NW, Huntsville AL	**Fort Monmouth** **New Jersey**

MAIN POST LAYOUT

CREATED BY: RR	REVIEWED BY: KF
DATE: MAY. 2017	FIGURE NUMBER: FIGURE 1.2
PROJECT NUMBER: 748810-03000	FILE: FIGURE 1.2.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\2016 Annual Report\FIGURE 1.2.mxd

LEGEND:

- Municipal Boundary
- Installation Boundary
- Building
- Surface Water Feature

N

1 inch = 600 feet

0 300 600 1,200 Feet

Source: Bing Maps online imagery; ESRI Data and Maps 2011; USGS NHD.

PARSONS 401 Diamond Drive NW, Huntsville AL	**Fort Monmouth** **New Jersey**

CHARLES WOOD AREA LAYOUT

CREATED BY: RR	REVIEWED BY: KF
DATE: MAY. 2017	FIGURE NUMBER: FIGURE 1.3
PROJECT NUMBER: 748810-03000	FILE: FIGURE 1.3.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\2016 Annual Report\FIGURE 1.3.mxd 5/30/2017 4:47:57 PM

APPENDICES

Appendix A FTMM-58: Building 2567 UST Gasoline
Appendix B FTMM-64: Building 812 UST Gasoline
Appendix C Data Validation Memorandum
Appendix D Laboratory Analytical Results (CD)
Appendix E NJDEP Correspondence

APPENDIX A

FTMM-58: BUILDING 2567 UST GASOLINE

APPENDIX A: FTMM-58 Building 2567 UST Gasoline

TABLE OF CONTENTS

1.0 WATER LEVEL MEASUREMENTS AND WELL ASSESSMENT A-1
2.0 GROUNDWATER SAMPLING A-1
3.0 HISTORICAL GROUNDWATER SAMPLING RESULTS A-1
4.0 ANNUAL (FOURTH QUARTER) 2016 GROUNDWATER RESULTS A-2
5.0 FINDINGS AND RECOMMENDATIONS A-3

LIST OF TABLES

Table No.	Title
1	Groundwater Gauging Data and Elevations (October 21, 2016) and LFPS Sampling Summary
2	Historical Groundwater Analytical Results
3	Groundwater Analytical Results - 2013, 2014, 2015, and 2016
4	Review of Historical Groundwater Sampling Results

LIST OF FIGURES

Figure No.	Title
1	Layout of FTMM-58 Building 2567 UST Gasoline
2	FTMM-58 Shallow Groundwater Contours - October 21, 2016
3	FTMM-58 Chemical Constituents above NJDEP GWQS 2016 Annual Sampling Event

LIST OF ATTACHMENTS

Attachment	Title
A	LFPS Field Sheets

1.0 WATER LEVEL MEASUREMENTS AND WELL ASSESSMENT

Monitoring wells located within FTMM-58 were gauged on October 21, 2016. Monitoring well locations as well as other site features are provided in **Figure 1**. Details regarding the water level measurements are provided in **Table 1**. Groundwater elevations in monitoring wells ranged from 26.65 (2567MW05) to 30.58 (2567MW03) feet above mean sea level (amsl). The inferred shallow groundwater flow direction is generally to the southeast, as shown in **Figure 2**.

During the groundwater gauging, the physical condition of FTMM-58 monitoring wells were assessed. The site monitoring wells were found to be in good condition.

2.0 GROUNDWATER SAMPLING

Groundwater samples were collected from three monitoring wells (2567MW01, 2567MW03, and 2567MW05) located at FTMM-58 as part of the annual (fourth quarter) 2016 groundwater sampling event. FTMM-58 is sampled on an annual basis. The groundwater sampling program included measuring the depth to groundwater in monitoring wells prior to sampling and collection of groundwater samples using low-flow purging and sampling (LFPS). Groundwater samples were collected from wells 2567MW01, 2567MW03, and 2567MW05 on October 21, 2016. The groundwater samples were analyzed for only tert-butyl alcohol (TBA) via the United States Environmental Protection Agency (USEPA) Method SW8260C.

The samples were collected in accordance with the New Jersey Department of Environmental Protection (NJDEP) Field Sampling Procedures Manual (FSPM) and the Sampling Analysis Plan (SAP). Field blanks, duplicates, matrix spike, matrix spike duplicate and quality assurance (QA) split samples were collected for every 5% of samples collected per parameter, per matrix, in accordance with the Quality Assurance Project Plan (QAPP). Trip blanks accompanied each cooler each day in which VOCs were collected for laboratory analysis.

Completed LFPS field sheets for each well sampled can be found in **Attachment A**.

Additional monitoring wells were installed in January 2017 to assess benzene contamination in groundwater, in accordance with an NJDEP approved Work Plan; results from these additional investigations will be reported separately.

3.0 HISTORICAL GROUNDWATER SAMPLING RESULTS

Groundwater monitoring has been conducted at FTMM-58 beginning in April 1997. Groundwater monitoring has consisted of sampling for select VOCs, semi-volatile organic compounds (SVOCs), and metals. The four most recent historical quarterly groundwater sampling events consisted of sampling for VOCs and metals.

Tert-butyl alcohol (TBA) was detected in FTMM-58 monitoring well 2567MW01 above the NJDEP Ground Water Quality Standards (GWQS) in March and June 2010, but was not detected in the subsequent groundwater sampling event conducted in September 2010. TBA was also detected in 2567MW03 at a concentration of 486.99 µg/L in September 2010. The NJDEP GWQS for TBA is 100 µg/L.

The November 2011 Remedial Action Progress Report for FTMM-58 prepared by CALIBRE Systems, Inc. stated that in an effort to reduce the TBA exceedances exhibited in monitoring wells 2567MW01 and 2567MW03, *in-situ* chemical oxidation injections would be performed in this area. Three injections of RegenOx®/ORC Advanced™ were conducted between November 2010 and June 2011 under an approved NJDEP Permit by Rule letter dated October 28, 2010.

Antimony was detected in monitoring wells 2567MW01, 2567MW02, 2567MW03, 2567MW04 and 2567MW05 above the NJDEP GWQS in at least one of the last four historical sampling rounds. Lead was also detected above the NJDEP GWQS in the September and June 2010 sampling events. Both antimony and lead were well below the background conditions for each compound and are not related to former site operations. Historical groundwater analytical data are presented in **Table 2**.

During the August 2013 Baseline Sampling Event, seven monitoring wells were sampled for VOCs. No VOCs were detected above their respective NJDEP GWQS during August 2013 sampling event. Results of the August 2013 sampling event are presented in **Table 3.**

The Final August 2013 Baseline Groundwater Sampling Report was accepted by the NJDEP in their February 5, 2015 letter. Based on this approval, five out of the seven groundwater monitoring wells were removed from the long term monitoring (LTM) program including 2567MW02, 2567MW04, 2567MW05, 2567MW06 and 2567MW07. Also, the volatile organic compound list was reduced to TBA only.

During the 2014 sampling event, TBA was detected in only monitoring well 2567MW01, at a concentration of 260 µg/L which is above the NJDEP GWQS of 100 µg/L. Groundwater analytical results from samples collected during the annual (fourth quarter) 2014 groundwater sampling event are presented in **Table 3**.

Based on the annual 2014 results, it was recommended that annual groundwater sampling continue at monitoring wells 2567MW01 and 2567MW03 for TBA. The Annual (Fourth Quarter) 2014 Groundwater Sampling Report was accepted by the NJDEP in their January 26, 2016 letter.

During the 2015 sampling event, TBA was detected above the NJDEP GWQS of 100 µg/L in monitoring well 2567MW01, at a concentration of 240 µg/L. Groundwater analytical results from samples collected during the annual (fourth quarter) 2015 groundwater sampling event are presented in **Table 3**. Based on the annual 2015 results, it was recommended that annual groundwater sampling should continue at monitoring well 2567MW01 for TBA, and that monitoring at 2567MW03 should be discontinued following confirmation of concentrations below the GWQS. In addition, downgradient well 2567MW05 was recommended to be added to the LTM program. The Annual (Fourth Quarter) 2015 Groundwater Sampling Report was accepted by the NJDEP in their November 14, 2016 letter.

4.0 ANNUAL (FOURTH QUARTER) 2016 GROUNDWATER RESULTS

TBA continued to be detected in only monitoring well, 2567MW01, at a concentration of 344 µg/L which is above the NJDEP GWQS of 100 µg/L. Groundwater analytical results from samples collected during the annual (fourth quarter) 2016 groundwater sampling event are presented in **Table 3**. Constituents detected in the groundwater above the NJDEP GWQS during the 2016 Sampling Event are shown on **Figure 3.**

5.0 FINDINGS AND RECOMMENDATIONS

Overall, concentrations of TBA detected at monitoring well 2567MW01 have been decreasing from a high of 829.45 µg/L (June 2010) to 344 µg/L (October 2016); concentrations remain above the NJDEP GWQS (100 µg/L). Based on the collective groundwater analytical results, continued groundwater monitoring for TBA in 2567MW01 and in downgradient well 2567MW05 is recommended. TBA was not detected at monitoring well 2567MW03 during annual monitoring from 2014 through 2016, which confirms that TBA is below the NJDEP GWQS at this location. A review of historical groundwater sampling results is presented in **Table 4**, which also provides the matrix used to determine the status of wells relative to future groundwater sampling and analyses.

It is recommended that the LTM program for groundwater at FTMM-58 be temporarily suspended while the remedial investigation (RI) phase and the field work for the site will be completed in the near future. The LTM of the groundwater to date has provided sufficient understanding of the groundwater chemistry for FTMM-58, and there is minimal benefit to continuing the LTM program while characterization of this site is being completed under the RI process. The collective RI data provides a good characterization of the concentrations of constituents in the groundwater and allow for the evaluation of the groundwater (as a whole) in the RI/FS process. Once the RI Reports (RIR), any necessary feasibility studies (FSs), and proposed plans have been completed and a remedy has been selected under a decision document, a revised LTM program for the groundwater will be submitted for FTMM-58 as appropriate to support the Classification Exemption Areas (CEA).

TABLES

Table 1 Groundwater Gauging Data and Elevations (October 21, 2016) and LFPS Sampling Summary

Table 2 Historical Groundwater Analytical Results

Table 3 Groundwater Analytical Results - 2013, 2014, 2015, and 2016

Table 4 Review of Historical Groundwater Sampling Results

Table 1
Groundwater Gauging Data and Elevations (October 21, 2016) and LFPS Sampling Summary
Site FTMM-58 Building 2567 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Site/Well ID	Installation Date	Well Permit #	Y Coord. (North)	X Coord. (East)	Depth (ft. bgs)	Casing Length (ft)	Screen Length (ft)	TOC Elevation (ft)	Gauge Time	Gauged Depth to Water (ft. TOC)	Gauged Depth to Bottom (ft. TOC)	Calculated Groundwater Elevation (ft)	Date Sampled
Shallow Monitoring Wells													
2567MW01	9/30/1991	29-26925	532956.75	609537.78	13.0	3.0	10.0	32.86	0910	4.17	13.00	28.69	10/21/2016
2567MW02	10/1/1991	29-26926	533016.73	609468.76	13.0	3.0	10.0	34.17	1034	3.98	12.55	30.19	
2567MW03	10/1/1991	29-26927	532929.32	609472.36	13.0	3.0	10.0	32.79	1000	2.21	13.00	30.58	10/21/2016
2567MW04	9/30/1991	29-26928	533042.70	609544.26	12.0	2.0	10.0	32.42	1033	2.21	11.80	30.21	
2567MW05	9/23/1994	29-31783	532871.13	609697.52	12.5	2.5	10.0	33.90	0920	7.25	15.00	26.65	10/21/2016
2567MW06	5/12/2000	29-42585	532869.38	609542.57	13.0	3.0	10.0	34.01	1027	7.31	16.00	26.70	
2567MW07	5/12/2000	29-42586	532879.49	609473.42	13.0	3.0	10.0	35.25	1029	6.08	16.20	29.17	

Notes:
1) The synoptic round of water levels in the wells was collected on October 21, 2016.
2) Information on well permit number, X and Y coordinates, depth, screen length, screen interval and TOC elevation were provided by FTMM in a table in June 2013.
3) ft = feet
4) DTW = depth to water (measured from the top of well casing)
5) DTB = depth to bottom of well (measured from the top of well casing)
6) bgs = below ground surface
7) ppm = parts per million (of VOCs)
8) TOC = Top of Casing
9) Elevation = feet above mean sea level
10) N/A = information not available
11) LFPS = Low-Flow Purging and Sampling

Table 2
Historical Groundwater Analytical Results
Site FTMM-58 Building 2567 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

				2567MW01																							
Round No.	**NJDEP GWQS**	**USEPA MCL**	**Weston 1995 Background (Main Post)**	51		51 Dup		LF1		LF2		LF2 Dup		LF3		51		LF1		LF1 Dup		LF2		LF2 Dup		LF3		LF3 Dup	
Date Collected				10/26/2009		10/26/2009		3/4/2010		6/9/2010		6/9/2010		9/16/2010		10/26/2009		3/4/2010		3/4/2010		6/8/2010		6/8/2010		9/15/2010		9/15/2010	
ANALYTE / Lab ID				90428.04		90428.03		10069.08		10251.04		10251.03		10395.05		90428.05		10069.04		10069.03		10248.04		10248.03		10392.04		10392.03	
Volatile Organic Compounds (µg/L)																													
Acetone	6,000	NLE	--	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzene	1	5	--	ND		ND		ND		ND		ND		ND		ND		--		--		ND		--		--		--	
2-Butanone	300	NLE	--	ND		ND		--		--		--		--		ND		ND		ND		ND		ND		ND		ND	
Methyl *tert*-butyl ether	70	NLE	--	**0.90**		**0.92**		**1.28**		**1.15**		**1.11**		ND		ND		--		--		ND		--		--		--	
tert-Butyl alcohol	100	NLE	--	**13.13**		**13.13**		**662.11**		**829.45**		**736.09**		ND		ND		--		--		ND		--		--		--	
Toluene	600	1,000	--	ND		ND		ND		ND		ND		ND		ND		--		--		ND		--		--		--	
Xylenes (total)	1,000	10,000	--	ND		ND		ND		ND		ND		ND		ND		--		--		ND		--		--		--	
TICs*	NLE	NLE	--	ND		ND		ND		**9**		**6**		**234**		**15**		ND		ND		ND		ND		**20**		**26**	
Metals (µg/L)																													
Antimony	6	6	20.7	NA		NA		**6.88**	ER	**10.7**		**12.6**		**18.7**		NA		ND		**6.13**	ER	**9.73**	ER	**9.89**	ER	**13.2**		**11.1**	
Arsenic	3	10	89.3	NA		NA		**1.14**	ER	ND		**0.69**	ER	ND		NA		**1.01**	ER	**0.91**	ER	**0.70**	ER	**1.00**	ER	**1.46**	ER	**1.06**	ER
Barium	6,000	2,000	699	NA		NA		**845**		**1120**		**1110**		**885**		NA		**377**		**407**		**340**		**339**		**434**		**443**	
Beryllium	1	4	2.1	NA		NA		ND		**0.06**	ER	**0.07**	ER	ND		NA		ND		ND		**0.136**	ER	**0.15**	ER	ND		ND	
Cadmium	4	5	9.5	NA		NA		ND		ND		ND		ND		NA		ND		ND		ND		ND		--		--	
Chromium	70	100	191	NA		NA		ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND	
Copper	1,300	1,300 **	65.6	NA		NA		ND		ND		ND		**1.54**	ER	NA		ND		ND		ND		ND		**3.02**	ER	**2.32**	ER
Lead	5	15	22.7	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Mercury	2	2	0.26	NA		NA		ND		ND		ND		ND		NA		ND		ND		ND		ND		**0.08**	ER	**0.08**	ER
Nickel	100	NLE	187	NA		NA		**1.02**	ER	ND		ND		ND		NA		ND		ND		ND		ND		**1.07**	ER	**1.63**	ER
Selenium	40	50	29.6	NA		NA		NR		NR		NR		ND		NA		NR		NR		NR		NR		**1.96**		ND	
Thallium	2	2	5.5	NA		NA		ND		ND		ND		ND		NA		ND		ND		ND		ND		ND		ND	

Notes:

Shaded cells = concentrations exceed the NJDEP GWQS

*TICs - Tentatively identified compounds, cannot exceed 500 µg/L for VOCs and SVOCs. No individual compound can exceed 100 µg/L.

** Value is the USEPA Action Level.

NJDEP GWQS = Ground Water Quality Criteria as per N.J.A.C. 7:9-6 (July 22, 2010)

USEPA MCL = U.S. Environmental Protection Agency Maximum Contaminant Level (2012)

LF = Low-flow sampling method used to collect sample

< = Analyte does not exceed the detection limit shown

J = Estimated concentration exceeds the method detection limit (MDL) and is less than the reporting limit (RL)

NA = Not analyzed

ND = Not detected

NLE = No limit established

ER = Estimated Result

LF = Low flow sampling method used to collect sample

DUP = field duplicate sample

J = Estimated concentration exceeds the method detection limit (MDL) and is less than the reporting limit (RL)

Table 2
Historical Groundwater Analytical Results
Site FTMM-58 Building 2567 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

				2567MW03	2567MW03						2567MW04							2567MW05											
Round No.	**NJDEP GWQS**	**USEPA MCL**	**Weston 1995 Background (Main Post)**	51	LF1		LF2		LF3		51	LF1		LF2		LF3		51	LF1		LF1 Dup		LF2		LF3		LF3 Dup	
Date Collected				10/26/2009	3/5/2010		6/9/2010		9/15/2010		10/26/2009	3/4/2010		6/8/2010		9/15/2010		10/26/2009	3/5/2010		3/5/2010		6/8/2010		9/16/2010		9/16/2010	
ANALYTE / Lab ID				90428.06	10073.05		10251.05		10392.08		90428.07	10069.05		10248.05		10392.05		90428.08	10073.04		10073.03		10248.08		10395.04		10395.03	
Volatile Organic Compounds (µg/L)																													
Acetone	6,000	NLE	--	ND	ND		ND		ND		ND	ND		ND		ND		ND	ND		ND		ND		ND		ND	
Benzene	1	5	--	ND	ND		ND		ND		ND	--		--		--		ND	--		--		--		--		--	
2-Butanone	300	NLE	--	ND	ND		ND		ND		ND	ND		ND		ND		ND	ND		ND		ND		ND		ND	
Methyl *tert*-butyl ether	70	NLE	--	**0.74**	**0.42**	J	**0.25**	J	**1.26**		ND	ND		ND		ND		ND	--		--		--		--		--	
tert-Butyl alcohol	100	NLE	--	ND	ND		ND		**486.99**		ND	--		--		--		ND	--		--		--		--		--	
Toluene	600	1,000	--	ND	ND		ND		ND		ND	--		--		--		ND	ND		ND		ND		ND		ND	
Xylenes (total)	1,000	10,000	--	ND	ND		ND		ND		ND	--		--		--		ND	--		--		--		--		--	
TICs*	NLE	NLE	--	**227**	**53**		**5**		**18**		ND	ND		ND		ND		ND	ND		ND		ND		ND		ND	
Metals (µg/L)																													
Antimony	6	6	20.7	NA	ND		**9.45**	ER	**16.5**		NA	**5.51**	ER	**6.42**		**8.64**	ER	NA	ND		ND		ND		ND		**7.31**	ER
Arsenic	3	10	89.3	NA	ND		ND		--		NA	**2.37**	ER	**1.80**	ER	**2.22**	ER	NA	ND		**0.71**	ER	**1.30**	ER	**2.57**	ER	**2.41**	ER
Barium	6,000	2,000	699	NA	**195**		**382**		**1120**		NA	**74.3**		**136**		**175**		NA	**105**		**106**		**49.5**		**41.5**		**38.1**	
Beryllium	1	4	2.1	NA	ND		**0.04**	ER	ND		NA	**0.38**	ER	**0.32**	ER	**0.20**	ER	NA	**0.24**	ER	**0.20**	ER	**0.44**	ER	**0.36**	ER	**0.33**	ER
Cadmium	4	5	9.5	NA	ND		ND		--		NA	**0.58**	ER	ND		ND		NA	**1.48**	ER	**1.36**	ER	ND		ND		ND	
Chromium	70	100	191	NA	ND		ND		ND		NA	**1.78**	ER	ND		ND		NA	ND		ND		**11.4**		**7.39**		**6.77**	
Copper	1,300	1,300**	65.6	NA	ND		ND		**2.46**	ER	NA	**1.39**	ER	ND		**2.15**	ER	NA	**5.22**		**5.22**		**16.6**		**13.1**		**12.5**	
Lead	5	15	22.7	ND	ND		ND		ND		ND	ND		ND		ND		ND	ND		ND		**11.9**		**7.02**		**6.19**	
Mercury	2	2	0.26	NA	ND		ND		**0.07**	ER	NA	ND		ND		**0.07**	ER	NA	ND		ND		ND		ND		ND	
Nickel	100	NLE	187	NA	ND		ND		**3.11**	ER	NA	**11.4**		**10.9**		**3.7**	ER	NA	**11.1**		**11.7**		**6.93**		**6.1**	ER	**5.34**	
Selenium	40	50	29.6	NA	NR		NR		ND		NA	NR		NR		ND		NA	NR		NR		NR		**1.7**		ND	
Thallium	2	2	5.5	NA	ND		ND		ND		NA	ND		ND		ND		NA	ND		ND		ND		ND		ND	

Notes:

Shaded cells = concentrations exceed the NJDEP GWQS

*TICs - Tentatively identified compounds, cannot exceed 500 µg/L for VOCs and SVOCs. No individual compound can exceed 100 µg/L.

** Value is the USEPA Action Level.

NJDEP GWQS = Ground Water Quality Criteria as per N.J.A.C. 7:9-6 (July 22, 2010)

USEPA MCL = U.S. Environmental Protection Agency Maximum Contaminant Level (2012)

LF = Low-flow sampling method used to collect sample

< = Analyte does not exceed the detection limit shown

J = Estimated concentration exceeds the method detection limit (MDL) and is less than the reporting limit (RL)

NA = Not analyzed

ND = Not detected

NLE = No limit established

ER = Estimated Result

LF = Low flow sampling method used to collect sample

DUP = field duplicate sample

J = Estimated concentration exceeds the method detection limit (MDL) and is less than the reporting limit (RL)

Table 2
Historical Groundwater Analytical Results
Site FTMM-58 Building 2567 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

				2567MW07	2567MW07					
Round No.	**NJDEP GWQS**	**USEPA MCL**	**Weston 1995 Background (Main Post)**	38	LF1		LF2		LF3	
Date Collected				10/26/2009	3/4/2010		6/8/2010		9/15/2010	
ANALYTE / Lab ID				90428.10	10069.07		10248.07		10392.07	
Volatile Organic Compounds (µg/L)										
Acetone	6,000	NLE	--	ND	ND		ND		ND	
Benzene	1	5	--	ND	--		--		--	
2-Butanone	300	NLE	--	ND	--		--		--	
Methyl *tert*-butyl ether	70	NLE	--	ND	ND		ND		ND	
tert-Butyl alcohol	100	NLE	--	ND	ND		ND		ND	
Toluene	600	1,000	--	ND	--		--		--	
Xylenes (total)	1,000	10,000	--	ND	--		--		--	
TICs*	NLE	NLE	--	ND	ND		ND		ND	
Metals (µg/L)										
Antimony	6	6	20.7	NA	ND		**5.50**	ER	**7.47**	ER
Arsenic	3	10	89.3	NA	**0.64**	ER	**2.71**	ER	**8.20**	
Barium	6,000	2,000	699	NA	**223**		**71.5**		**172**	
Beryllium	1	4	2.1	NA	**0.22**	ER	**0.19**	ER	**0.04**	ER
Cadmium	4	5	9.5	NA	ND		ND		ND	
Chromium	70	100	191	NA	ND		ND		ND	
Copper	1,300	1,300 **	65.6	NA	**4.06**	ER	**2.15**	ER	**2.39**	ER
Lead	5	15	22.7	**3.05**	ND		ND		ND	
Mercury	2	2	0.26	NA	NA		ND		**0.06**	ER
Nickel	100	NLE	187	NA	**15.6**		**5.22**		**9.89**	
Selenium	40	50	29.6	NA	NR		NR		**1.43**	
Thallium	2	2	5.5	NA	ND		ND		ND	

Notes:

Shaded cells = concentrations exceed the NJDEP GWQS

*TICs - Tentatively identified compounds, cannot exceed 500 µg/L for VOCs and SVOCs. No individual compound can exceed 100 µg/L.

** Value is the USEPA Action Level.

NJDEP GWQS = Ground Water Quality Criteria as per N.J.A.C. 7:9-6 (July 22, 2010)

USEPA MCL = U.S. Environmental Protection Agency Maximum Contaminant Level (2012)

LF = Low-flow sampling method used to collect sample

< = Analyte does not exceed the detection limit shown

J = Estimated concentration exceeds the method detection limit (MDL) and is less than the reporting limit (RL)

NA = Not analyzed

ND = Not detected

NLE = No limit established

ER = Estimated Result

LF = Low flow sampling method used to collect sample

DUP = field duplicate sample

J = Estimated concentration exceeds the method detection limit (MDL) and is less than the reporting limit (RL)

Table 3
Groundwater Sampling Results - 2013, 2014, 2015, and 2016
Site FTMM-58 Building 2567 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2567MW01				2567MW02
Sample ID		FTMM-58-GW-2567MW01-8.33	FTMM-58-GW-2567MW01-8.73_2014-Q4	FTMM-58-GW-2567MW01-8.3_4Q2015	FTMM-58-GW-2567MW01-8.6	FTMM-58-GW-2567MW02-8.06
Sample Date		8/29/2013	10/2/2014	11/25/2015	10/21/2016	8/29/2013
Sample Round		1				1
Filtered		Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)						
1,1,1,2-Tetrachloroethane	1	< 1	< 1	NA	NA	< 1
1,1,1-Trichloroethane	30	< 1	< 1	NA	NA	< 1
1,1,2,2-Tetrachloroethane	1	< 1	< 1	NA	NA	< 1
1,1,2-Trichloroethane	3	< 1	< 1	NA	NA	< 1
1,1-Dichloroethane	50	< 1	< 1	NA	NA	< 1
1,1-Dichloroethene	1	< 1	< 1	NA	NA	< 1
1,1-Dichloropropene	100	< 1	< 1	NA	NA	< 1
1,2,3-Trichlorobenzene	100	< 1	< 1	NA	NA	< 1
1,2,3-Trichloropropane	0.03	< 1	< 1	NA	NA	< 1
1,2,4-Trichlorobenzene	9	< 1	< 1	NA	NA	< 1
1,2,4-Trimethylbenzene	100	< 1	< 1	NA	NA	< 1
1,2-Dibromo-3-chloropropane	0.02	< 1	< 1	NA	NA	< 1
1,2-Dibromoethane	0.03	< 1	< 1	NA	NA	< 1
1,2-Dichlorobenzene	600	< 1	< 1	NA	NA	< 1
1,2-Dichloroethane	2	< 1	< 1	NA	NA	< 1
1,2-Dichloropropane	1	< 1	< 1	NA	NA	< 1
1,3,5-Trimethylbenzene	100	< 1	< 1	NA	NA	< 1
1,3-Dichlorobenzene	600	< 1	< 1	NA	NA	< 1
1,3-Dichloropropane	100	< 1	< 1	NA	NA	< 1
1,4-Dichlorobenzene	75	< 1	< 1	NA	NA	< 1
2,2-Dichloropropane	100	< 1	< 1	NA	NA	< 1
2-Chlorotoluene	100	< 1	< 1	NA	NA	< 1
Acetone	6,000	**2.5 J**	**1.7 J**	NA	NA	**2.9 J**
Benzene	1	< 1	< 1	NA	NA	< 1
Bromobenzene	100	< 1	< 1	NA	NA	< 1
Bromochloromethane	100	< 1	< 1	NA	NA	< 1
Bromodichloromethane	1	< 1	< 1	NA	NA	< 1
Bromoform	4	< 1	< 1	NA	NA	< 1
Carbon tetrachloride	1	< 1	< 1	NA	NA	< 1
Chlorobenzene	50	< 1	< 1	NA	NA	< 1
Chlorodibromomethane	1	< 1	< 1	NA	NA	< 1
Chloroethane	5	< 1	< 1	NA	NA	< 1
Chloroform	70	< 1	< 1	NA	NA	< 1
Cis-1,2-Dichloroethene	70	< 1	< 1	NA	NA	< 1
Cis-1,3-Dichloropropene	1	< 1	< 1	NA	NA	< 1
Cymene	100	< 1	< 1	NA	NA	< 1
Dichlorodifluoromethane	1,000	< 1	< 1	NA	NA	< 1
Ethyl benzene	700	< 1	< 1	NA	NA	< 1
Hexachlorobutadiene	1	< 1	< 1	NA	NA	< 1
Isopropylbenzene	700	< 1	< 1	NA	NA	< 1
Meta/Para Xylene	1,000	< 2	< 2	NA	NA	< 2
Methyl bromide	10	< 1	< 1	NA	NA	< 1
Methyl butyl ketone	300	< 5	< 5	NA	NA	< 5
Methyl chloride	100	< 1	< 1	NA	NA	< 1
Methyl ethyl ketone	300	< 1	< 1	NA	NA	< 1
Methyl isobutyl ketone	100	< 1	< 1	NA	NA	< 1
Methyl Tertbutyl Ether	70	**0.34 J**	**0.8 J**	NA	NA	< 1

Table 3
Groundwater Sampling Results - 2013, 2014, 2015, and 2016
Site FTMM-58 Building 2567 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2567MW01				2567MW02
Sample ID		FTMM-58-GW-2567MW01-8.33	FTMM-58-GW-2567MW01-8.73_2014-Q4	FTMM-58-GW-2567MW01-8.3_4Q2015	FTMM-58-GW-2567MW01-8.6	FTMM-58-GW-2567MW02-8.06
Sample Date		8/29/2013	10/2/2014	11/25/2015	10/21/2016	8/29/2013
Sample Round		1				1
Filtered		Total	Total	Total	Total	Total
Methylene chloride	3	< 1	< 1	NA	NA	< 1
Naphthalene	300	< 1	< 1	NA	NA	< 1
n-Butylbenzene	100	< 1	< 1	NA	NA	< 1
Ortho Xylene	1,000	< 1	< 1	NA	NA	< 1
p-Chlorotoluene	100	< 1	< 1	NA	NA	< 1
Propylbenzene	100	< 1	< 1	NA	NA	< 1
sec-Butylbenzene	100	< 1	< 1	NA	NA	< 1
Styrene	100	< 1	< 1	NA	NA	< 1
Tert Butyl Alcohol	100	NA	**260**	**240**	**344**	NA
tert-Butylbenzene	100	< 1	< 1	NA	NA	< 1
Tetrachloroethene	1	< 1	< 1	NA	NA	< 1
Toluene	600	< 1	< 1	NA	NA	< 1
Total Xylenes	1,000	< 3	NA	NA	NA	< 3
Trans-1,2-Dichloroethene	100	< 1	< 1	NA	NA	< 1
Trans-1,3-Dichloropropene	1	< 1	< 1	NA	NA	< 1
Trichloroethene	1	< 1	< 1	NA	NA	< 1
Trichlorofluoromethane	2,000	< 1	< 1	NA	NA	< 1
Vinyl chloride	1	< 1	< 1	NA	NA	< 1
TIC VOCs (µg/l)						
Total TIC, Volatile	500	ND	NA	NA	NA	ND
TIC VOCs (µg/l)						
TIC Unknown	NLE	NA	NA	NA	NA	NA

Table 3
Groundwater Sampling Results - 2013, 2014, 2015, and 2016
Site FTMM-58 Building 2567 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2567MW03				
Sample ID		FTMM-58-GW-2567MW03-10.5	FTMM-58-GW-2567MW03-10.5LF	FTMM-58-GW-2567MW03-5.11	FTMM-58-GW-2567MW03-8.03_2014-Q4	FTMM-58-GW-2567MW03-8_4Q2015
Sample Date		8/29/2013	8/29/2013	8/29/2013	10/2/2014	11/25/2015
Sample Round		1	1	1		
Filtered		Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)						
1,1,1,2-Tetrachloroethane	1	< 1	< 1	< 1	< 1	NA
1,1,1-Trichloroethane	30	< 1	< 1	< 1	< 1	NA
1,1,2,2-Tetrachloroethane	1	< 1	< 1	< 1	< 1	NA
1,1,2-Trichloroethane	3	< 1	< 1	< 1	< 1	NA
1,1-Dichloroethane	50	< 1	< 1	< 1	< 1	NA
1,1-Dichloroethene	1	< 1	< 1	< 1	< 1	NA
1,1-Dichloropropene	100	< 1	< 1	< 1	< 1	NA
1,2,3-Trichlorobenzene	100	< 1	< 1	< 1	< 1	NA
1,2,3-Trichloropropane	0.03	< 1	< 1	< 1	< 1	NA
1,2,4-Trichlorobenzene	9	< 1	< 1	< 1	< 1	NA
1,2,4-Trimethylbenzene	100	< 1	< 1	< 1	< 1	NA
1,2-Dibromo-3-chloropropane	0.02	< 1	< 1	< 1	< 1	NA
1,2-Dibromoethane	0.03	< 1	< 1	< 1	< 1	NA
1,2-Dichlorobenzene	600	< 1	< 1	< 1	< 1	NA
1,2-Dichloroethane	2	< 1	< 1	< 1	< 1	NA
1,2-Dichloropropane	1	< 1	< 1	< 1	< 1	NA
1,3,5-Trimethylbenzene	100	< 1	< 1	< 1	< 1	NA
1,3-Dichlorobenzene	600	< 1	< 1	< 1	< 1	NA
1,3-Dichloropropane	100	< 1	< 1	< 1	< 1	NA
1,4-Dichlorobenzene	75	< 1	< 1	< 1	< 1	NA
2,2-Dichloropropane	100	< 1	< 1	< 1	< 1	NA
2-Chlorotoluene	100	< 1	< 1	< 1	< 1	NA
Acetone	6,000	**2.8 J**	< 5	**3.5 BJ**	< 5	NA
Benzene	1	< 1	< 1	< 1	< 1	NA
Bromobenzene	100	< 1	< 1	< 1	< 1	NA
Bromochloromethane	100	< 1	< 1	< 1	< 1	NA
Bromodichloromethane	1	< 1	< 1	< 1	< 1	NA
Bromoform	4	< 1	< 1	< 1	< 1	NA
Carbon tetrachloride	1	< 1	< 1	< 1	< 1	NA
Chlorobenzene	50	< 1	< 1	< 1	< 1	NA
Chlorodibromomethane	1	< 1	< 1	< 1	< 1	NA
Chloroethane	5	< 1	< 1	< 1	< 1	NA
Chloroform	70	< 1	< 1	< 1	< 1	NA
Cis-1,2-Dichloroethene	70	< 1	< 1	< 1	< 1	NA
Cis-1,3-Dichloropropene	1	< 1	< 1	< 1	< 1	NA
Cymene	100	< 1	< 1	< 1	< 1	NA
Dichlorodifluoromethane	1,000	< 1	< 1	< 1	< 1	NA
Ethyl benzene	700	< 1	< 1	< 1	< 1	NA
Hexachlorobutadiene	1	< 1	< 1	< 1	< 1	NA
Isopropylbenzene	700	< 1	< 1	< 1	**2 J**	NA
Meta/Para Xylene	1,000	< 2	< 2	< 2	< 2	NA
Methyl bromide	10	< 1	< 1	< 1	< 1	NA
Methyl butyl ketone	300	< 5	< 5	< 5	< 5	NA
Methyl chloride	100	< 1	< 1	< 1	< 1	NA
Methyl ethyl ketone	300	< 1	< 1	< 1	< 1	NA
Methyl isobutyl ketone	100	< 1	< 1	< 1	< 1	NA
Methyl Tertbutyl Ether	70	< 1	**0.3 J**	< 1	< 1	NA

Table 3
Groundwater Sampling Results - 2013, 2014, 2015, and 2016
Site FTMM-58 Building 2567 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2567MW03				
Sample ID		FTMM-58-GW-2567MW03-10.5	FTMM-58-GW-2567MW03-10.5LF	FTMM-58-GW-2567MW03-5.11	FTMM-58-GW-2567MW03-8.03_2014-Q4	FTMM-58-GW-2567MW03-8_4Q2015
Sample Date		8/29/2013	8/29/2013	8/29/2013	10/2/2014	11/25/2015
Sample Round		1	1	1		
Filtered		Total	Total	Total	Total	Total
Methylene chloride	3	< 1	< 1	< 1	< 1	NA
Naphthalene	300	< 1	< 1	< 1	< 1	NA
n-Butylbenzene	100	< 1	< 1	< 1	< 1	NA
Ortho Xylene	1,000	< 1	< 1	< 1	< 1	NA
p-Chlorotoluene	100	< 1	< 1	< 1	< 1	NA
Propylbenzene	100	< 1	< 1	< 1	**1.9 J**	NA
sec-Butylbenzene	100	< 1	< 1	< 1	< 1	NA
Styrene	100	< 1	< 1	< 1	< 1	NA
Tert Butyl Alcohol	100	NA	NA	NA	< 20	< 20
tert-Butylbenzene	100	< 1	< 1	< 1	< 1	NA
Tetrachloroethene	1	< 1	< 1	< 1	< 1	NA
Toluene	600	< 1	< 1	< 1	< 1	NA
Total Xylenes	1,000	< 3	< 3	< 3	NA	NA
Trans-1,2-Dichloroethene	100	< 1	< 1	< 1	< 1	NA
Trans-1,3-Dichloropropene	1	< 1	< 1	< 1	< 1	NA
Trichloroethene	1	< 1	< 1	< 1	< 1	NA
Trichlorofluoromethane	2,000	< 1	< 1	< 1	< 1	NA
Vinyl chloride	1	< 1	< 1	< 1	< 1	NA
TIC VOCs (µg/l)						
Total TIC, Volatile	500	ND	ND	ND	NA	NA
TIC VOCs (µg/l)						
TIC Unknown	NLE	NA	NA	NA	**10.1 J**	NA

Table 3
Groundwater Sampling Results - 2013, 2014, 2015, and 2016
Site FTMM-58 Building 2567 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2567MW03	2567MW04
Sample ID		FTMM-58-GW-2567MW03-8	FTMM-58-GW-2567MW04-7.09
Sample Date		10/21/2016	8/29/2013
Sample Round			1
Filtered		Total	Total
Volatile Organic Compounds (µg/l)			
1,1,1,2-Tetrachloroethane	1	NA	< 1
1,1,1-Trichloroethane	30	NA	< 1
1,1,2,2-Tetrachloroethane	1	NA	< 1
1,1,2-Trichloroethane	3	NA	< 1
1,1-Dichloroethane	50	NA	< 1
1,1-Dichloroethene	1	NA	< 1
1,1-Dichloropropene	100	NA	< 1
1,2,3-Trichlorobenzene	100	NA	< 1
1,2,3-Trichloropropane	0.03	NA	< 1
1,2,4-Trichlorobenzene	9	NA	< 1
1,2,4-Trimethylbenzene	100	NA	< 1
1,2-Dibromo-3-chloropropane	0.02	NA	< 1
1,2-Dibromoethane	0.03	NA	< 1
1,2-Dichlorobenzene	600	NA	< 1
1,2-Dichloroethane	2	NA	< 1
1,2-Dichloropropane	1	NA	< 1
1,3,5-Trimethylbenzene	100	NA	< 1
1,3-Dichlorobenzene	600	NA	< 1
1,3-Dichloropropane	100	NA	< 1
1,4-Dichlorobenzene	75	NA	< 1
2,2-Dichloropropane	100	NA	< 1
2-Chlorotoluene	100	NA	< 1
Acetone	6,000	NA	**2.8 J**
Benzene	1	NA	< 1
Bromobenzene	100	NA	< 1
Bromochloromethane	100	NA	< 1
Bromodichloromethane	1	NA	< 1
Bromoform	4	NA	< 1
Carbon tetrachloride	1	NA	< 1
Chlorobenzene	50	NA	< 1
Chlorodibromomethane	1	NA	< 1
Chloroethane	5	NA	< 1
Chloroform	70	NA	< 1
Cis-1,2-Dichloroethene	70	NA	< 1
Cis-1,3-Dichloropropene	1	NA	< 1
Cymene	100	NA	< 1
Dichlorodifluoromethane	1,000	NA	< 1
Ethyl benzene	700	NA	< 1
Hexachlorobutadiene	1	NA	< 1
Isopropylbenzene	700	NA	< 1
Meta/Para Xylene	1,000	NA	< 2
Methyl bromide	10	NA	< 1
Methyl butyl ketone	300	NA	< 5
Methyl chloride	100	NA	< 1
Methyl ethyl ketone	300	NA	< 1
Methyl isobutyl ketone	100	NA	< 1
Methyl Tertbutyl Ether	70	NA	< 1

Table 3
Groundwater Sampling Results - 2013, 2014, 2015, and 2016
Site FTMM-58 Building 2567 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2567MW03	2567MW04
Sample ID		FTMM-58-GW-2567MW03-8	FTMM-58-GW-2567MW04-7.09
Sample Date		10/21/2016	8/29/2013
Sample Round			1
Filtered		Total	Total
Methylene chloride	3	NA	< 1
Naphthalene	300	NA	< 1
n-Butylbenzene	100	NA	< 1
Ortho Xylene	1,000	NA	< 1
p-Chlorotoluene	100	NA	< 1
Propylbenzene	100	NA	< 1
sec-Butylbenzene	100	NA	< 1
Styrene	100	NA	< 1
Tert Butyl Alcohol	100	< 8.3	NA
tert-Butylbenzene	100	NA	< 1
Tetrachloroethene	1	NA	< 1
Toluene	600	NA	< 1
Total Xylenes	1,000	NA	< 3
Trans-1,2-Dichloroethene	100	NA	< 1
Trans-1,3-Dichloropropene	1	NA	< 1
Trichloroethene	1	NA	< 1
Trichlorofluoromethane	2,000	NA	< 1
Vinyl chloride	1	NA	< 1
TIC VOCs (µg/l)			
Total TIC, Volatile	500	NA	ND
TIC VOCs (µg/l)			
TIC Unknown	NLE	NA	NA

Table 3
Groundwater Sampling Results - 2013, 2014, 2015, and 2016
Site FTMM-58 Building 2567 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2567MW05			2567MW06	2567MW07
Sample ID		FTMM-58-GW-2567MW05-9.65	FTMM-58-GW-2567MW105-9	FTMM-58-GW-2567MW05-11	FTMM-58-GW-2567MW06-11.48	FTMM-58-GW-2567MW07-10.99
Sample Date		8/29/2013	8/29/2013	10/21/2016	8/29/2013	8/29/2013
Sample Round		1	1		1	1
Filtered		Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)						
1,1,1,2-Tetrachloroethane	1	< 1	< 1	NA	< 1	< 1
1,1,1-Trichloroethane	30	< 1	< 1	NA	< 1	< 1
1,1,2,2-Tetrachloroethane	1	< 1	< 1	NA	< 1	< 1
1,1,2-Trichloroethane	3	< 1	< 1	NA	< 1	< 1
1,1-Dichloroethane	50	< 1	< 1	NA	< 1	< 1
1,1-Dichloroethene	1	< 1	< 1	NA	< 1	< 1
1,1-Dichloropropene	100	< 1	< 1	NA	< 1	< 1
1,2,3-Trichlorobenzene	100	< 1	< 1	NA	< 1	< 1
1,2,3-Trichloropropane	0.03	< 1	< 1	NA	< 1	< 1
1,2,4-Trichlorobenzene	9	< 1	< 1	NA	< 1	< 1
1,2,4-Trimethylbenzene	100	< 1	< 1	NA	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	< 1	< 1	NA	< 1	< 1
1,2-Dibromoethane	0.03	< 1	< 1	NA	< 1	< 1
1,2-Dichlorobenzene	600	< 1	< 1	NA	< 1	< 1
1,2-Dichloroethane	2	< 1	< 1	NA	< 1	< 1
1,2-Dichloropropane	1	< 1	< 1	NA	< 1	< 1
1,3,5-Trimethylbenzene	100	< 1	< 1	NA	< 1	< 1
1,3-Dichlorobenzene	600	< 1	< 1	NA	< 1	< 1
1,3-Dichloropropane	100	< 1	< 1	NA	< 1	< 1
1,4-Dichlorobenzene	75	< 1	< 1	NA	< 1	< 1
2,2-Dichloropropane	100	< 1	< 1	NA	< 1	< 1
2-Chlorotoluene	100	< 1	< 1	NA	< 1	< 1
Acetone	6,000	**2.9 J**	**2.7 J**	NA	**2.1 J**	**3.3 J**
Benzene	1	< 1	< 1	NA	< 1	< 1
Bromobenzene	100	< 1	< 1	NA	< 1	< 1
Bromochloromethane	100	< 1	< 1	NA	< 1	< 1
Bromodichloromethane	1	< 1	< 1	NA	< 1	< 1
Bromoform	4	< 1	< 1	NA	< 1	< 1
Carbon tetrachloride	1	< 1	< 1	NA	< 1	< 1
Chlorobenzene	50	< 1	< 1	NA	< 1	< 1
Chlorodibromomethane	1	< 1	< 1	NA	< 1	< 1
Chloroethane	5	< 1	< 1	NA	< 1	< 1
Chloroform	70	< 1	< 1	NA	< 1	< 1
Cis-1,2-Dichloroethene	70	< 1	< 1	NA	< 1	< 1
Cis-1,3-Dichloropropene	1	< 1	< 1	NA	< 1	< 1
Cymene	100	< 1	< 1	NA	< 1	< 1
Dichlorodifluoromethane	1,000	< 1	< 1	NA	< 1	< 1
Ethyl benzene	700	< 1	< 1	NA	< 1	< 1
Hexachlorobutadiene	1	< 1	< 1	NA	< 1	< 1
Isopropylbenzene	700	< 1	< 1	NA	< 1	< 1
Meta/Para Xylene	1,000	< 2	< 2	NA	< 2	< 2
Methyl bromide	10	< 1	< 1	NA	< 1	< 1
Methyl butyl ketone	300	< 5	< 5	NA	< 5	< 5
Methyl chloride	100	< 1	< 1	NA	< 1	< 1
Methyl ethyl ketone	300	< 1	< 1	NA	< 1	< 1
Methyl isobutyl ketone	100	< 1	< 1	NA	< 1	< 1
Methyl Tertbutyl Ether	70	< 1	< 1	NA	< 1	< 1

Table 3
Groundwater Sampling Results - 2013, 2014, 2015, and 2016
Site FTMM-58 Building 2567 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2567MW05			2567MW06	2567MW07
Sample ID		FTMM-58-GW-2567MW05-9.65	FTMM-58-GW-2567MW105-9	FTMM-58-GW-2567MW05-11	FTMM-58-GW-2567MW06-11.48	FTMM-58-GW-2567MW07-10.99
Sample Date		8/29/2013	8/29/2013	10/21/2016	8/29/2013	8/29/2013
Sample Round		1	1		1	1
Filtered		Total	Total	Total	Total	Total
Methylene chloride	3	< 1	< 1	NA	< 1	< 1
Naphthalene	300	< 1	< 1	NA	< 1	< 1
n-Butylbenzene	100	< 1	< 1	NA	< 1	< 1
Ortho Xylene	1,000	< 1	< 1	NA	< 1	< 1
p-Chlorotoluene	100	< 1	< 1	NA	< 1	< 1
Propylbenzene	100	< 1	< 1	NA	< 1	< 1
sec-Butylbenzene	100	< 1	< 1	NA	< 1	< 1
Styrene	100	< 1	< 1	NA	< 1	< 1
Tert Butyl Alcohol	100	NA	NA	< 8.3	NA	NA
tert-Butylbenzene	100	< 1	< 1	NA	< 1	< 1
Tetrachloroethene	1	< 1	< 1	NA	< 1	< 1
Toluene	600	< 1	< 1	NA	< 1	< 1
Total Xylenes	1,000	< 3	< 3	NA	< 3	< 3
Trans-1,2-Dichloroethene	100	< 1	< 1	NA	< 1	< 1
Trans-1,3-Dichloropropene	1	< 1	< 1	NA	< 1	< 1
Trichloroethene	1	< 1	< 1	NA	< 1	< 1
Trichlorofluoromethane	2,000	< 1	< 1	NA	< 1	< 1
Vinyl chloride	1	< 1	< 1	NA	< 1	< 1
TIC VOCs (µg/l)						
Total TIC, Volatile	500	ND	ND	NA	ND	ND
TIC VOCs (µg/l)						
TIC Unknown	NLE	NA	NA	NA	NA	NA

Table 3
Groundwater Sampling Results - 2013, 2014, 2015, and 2016
Site FTMM-58 Building 2567 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) Number of Analyses is the number of detected and non-detected results excluding rejected results. Sample duplicate pairs have not been averaged.

3) NLE = no limit established.

4) ND = not detected in any background sample, no background concentration available.

5) Bold chemical detection.

6) SS = Site Specific action level, see "Specific Chemical Class (or Parameter)" footnote for details.

7) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B = Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

E (or ER) = Estimated result.

J = estimated detected value due to a concentration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

8) Specific Chemical Classes (or Parameters) comments or notes regarding how data is displayed, compared to Action Levels, or represented in this table.

9) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the NJ Ground Water Quality Criteria ####

NJDEP Interim Specific GWQC values are presented for the NJ GWQS where there is not a Specific Ground Water Quality Criteria. A full list of compounds is available at (http://www.nj.gov/dep/wms/bwqsa/gwqs_interim_criteria_table.htm).

NJDEP Interim Generic GWQC values are presented for the NJ GWQS where there is not a XXXXX or a NJDEP Interim Specific GWQC. Available at (http://www.nj.gov/dep/wms/bwqsa/gwqs_interim_criteria_table.htm).

10) Criteria action level source document and web address.

- The NJ Ground Water Quality Criteria refers to the NJDEP Groundwater Quality Standards - Adopted July 22, 2010
http://www.state.nj.us/dep/wms/bwqsa/docs/njac79C.pdf

Table 4
Review of Historical Groundwater Sampling Results
Site FTMM-58 Building 2567 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Site Name/ Well ID	Interpretation of Historical and 2016 Results [1]			2016 Evaluation				Retain Analyte/Well (Yes or No)	Rationale
	Chem Class / Analyte	Does it Exceed NJDEP GWQS (Yes or No) (If Yes, identify compound)	Do Metals Exceed FTMM Background Concentration (Yes or No) (If Yes, identify Metal)	Seasonal Effect?[2] (Y/N)	Anomaly? (Y/N)	Exceedance part of overall trend? (Y/N)	Well needed for sentinel purposes? (Y/N)		
FTMM-58, B2567									
2567MW01	VOC	TBA	N/A	N/A	N/A	N/A	NO	Yes	
2567MW03		NO	N/A	N/A	N/A	N/A	NO	NO	
2567MW05		NO	N/A	N/A	N/A	N/A	Yes	Yes	Well will be retained as a downgradient well.

Notes

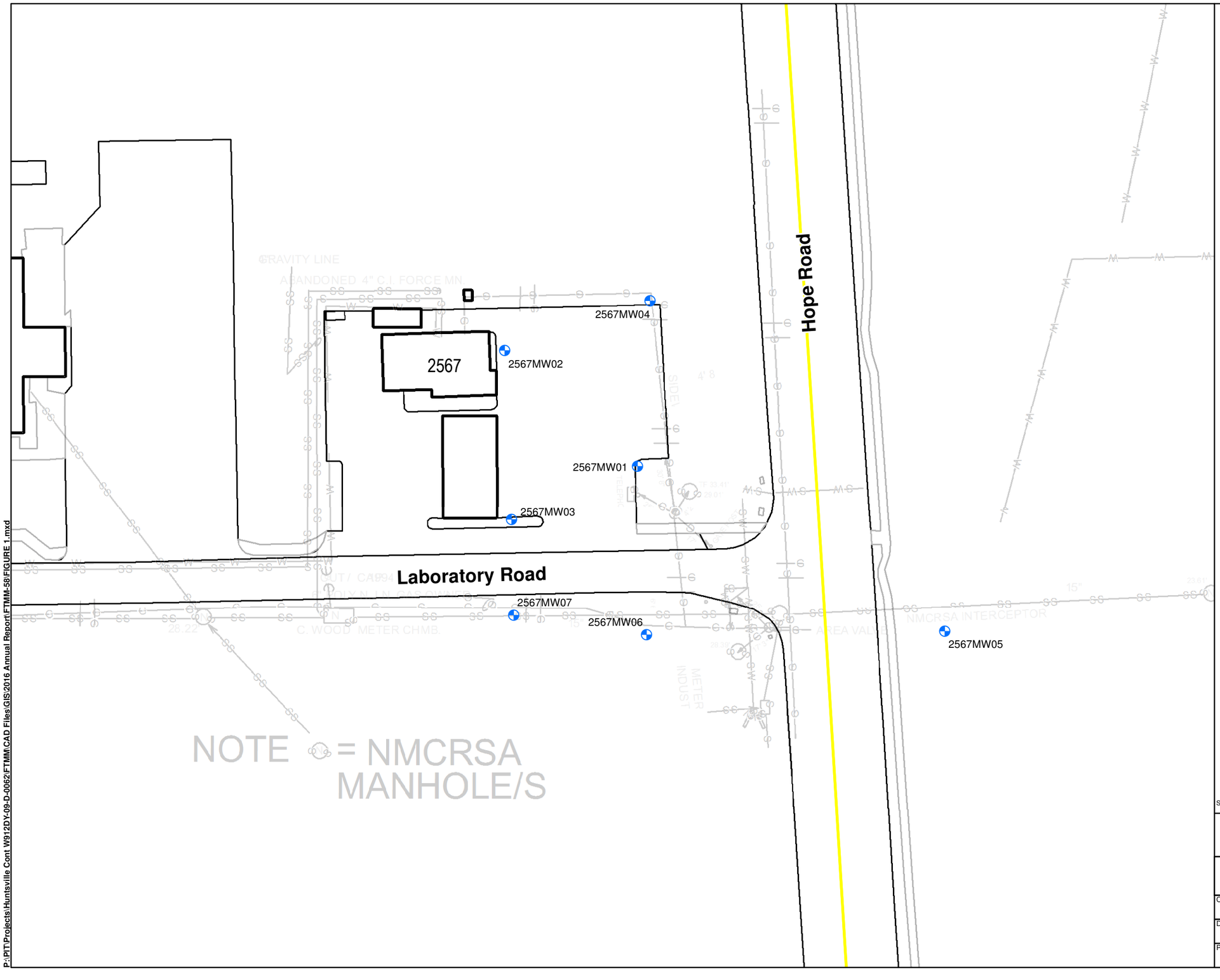
1. Has any of the analyte compounds exceeded the NJDEP GWQS in the 2015 data and the 4 previous quarterly data rounds or 3 previous annual rounds?
   a. If yes then keep analyte in LTM list
   b. If no then remove this analyte from LTM list
   c. a and b above may be occasionally superseded on a case-by-case basis, depending on site conditions.
2. Has any of the analyte compounds exceeded the NJDEP GWQS seasonally (winter spring vs. summer fall)?
3. TBA - Tert-butyl-alcohol
4. N/A - Not applicable
5. Per the 2/5/15 NJDEP approval letter of the Final 2013 Baseline Groundwater Report, groundwater monitoring wells 2567MW02, 2567MW04, 2567MW05, 2567MW06 and 2567MW07 were removed from the long-term monitoring sampling program and the volatile organic compound list has been reduced to TBA only.
6. Per the 11/14/16 NJDEP approval letter of the Final Annual (Fourth Quarter) 2015 Groundwater Sampling Report, groundwater monitoring well 2567MW03 was removed from the long-term monitoring sampling program following the 4th quarter 2016 sampling event.

FIGURES

Figure 1 Layout of FTMM-58 Building 2567 UST Gasoline

Figure 2 FTMM-58 Shallow Groundwater Contours – October 21, 2016

Figure 3 FTMM-58 Chemical Constituents above NJDEP GWQS 2016 Annual Sampling Event



LEGEND:

- Shallow Monitoring Well
- Municipal Boundary
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line

NOTE:

Monitoring wells installed in 2017 not shown.

DRAFT

N

1 inch = 50 feet

0 25 50 100 Feet

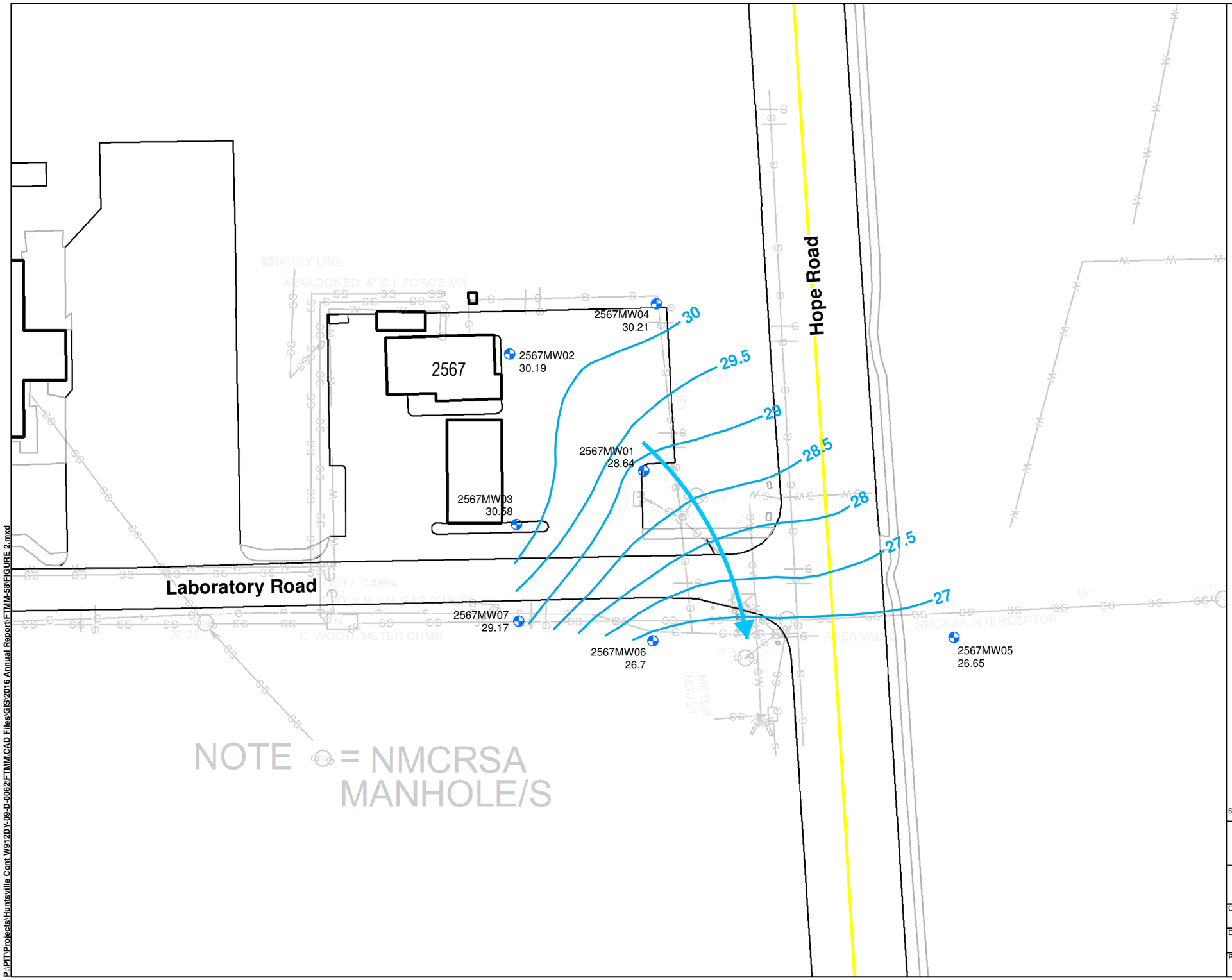
Source: FTMM Supplied CAD

PARSONS 401 Diamond Drive NW, Huntsville AL	**Fort Monmouth** **New Jersey**

LAYOUT OF FTMM-58
BUILDING 2567 UST GASOLINE

CREATED BY: RR	REVIEWED BY: KF
DATE: MAY. 2017	FIGURE NUMBER: FIGURE 1
PROJECT NUMBER: 748810-03000	FILE: FIGURE 1.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\2016 Annual Report\FTMM-58\FIGURE 1.mxd



LEGEND:

- Shallow Monitoring Well
- Municipal Boundary
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line
- Inferred Groundwater Flow Direction
- Groundwater Elevation Contour

DRAFT

N

1 inch = 50 feet

0 25 50 100 Feet

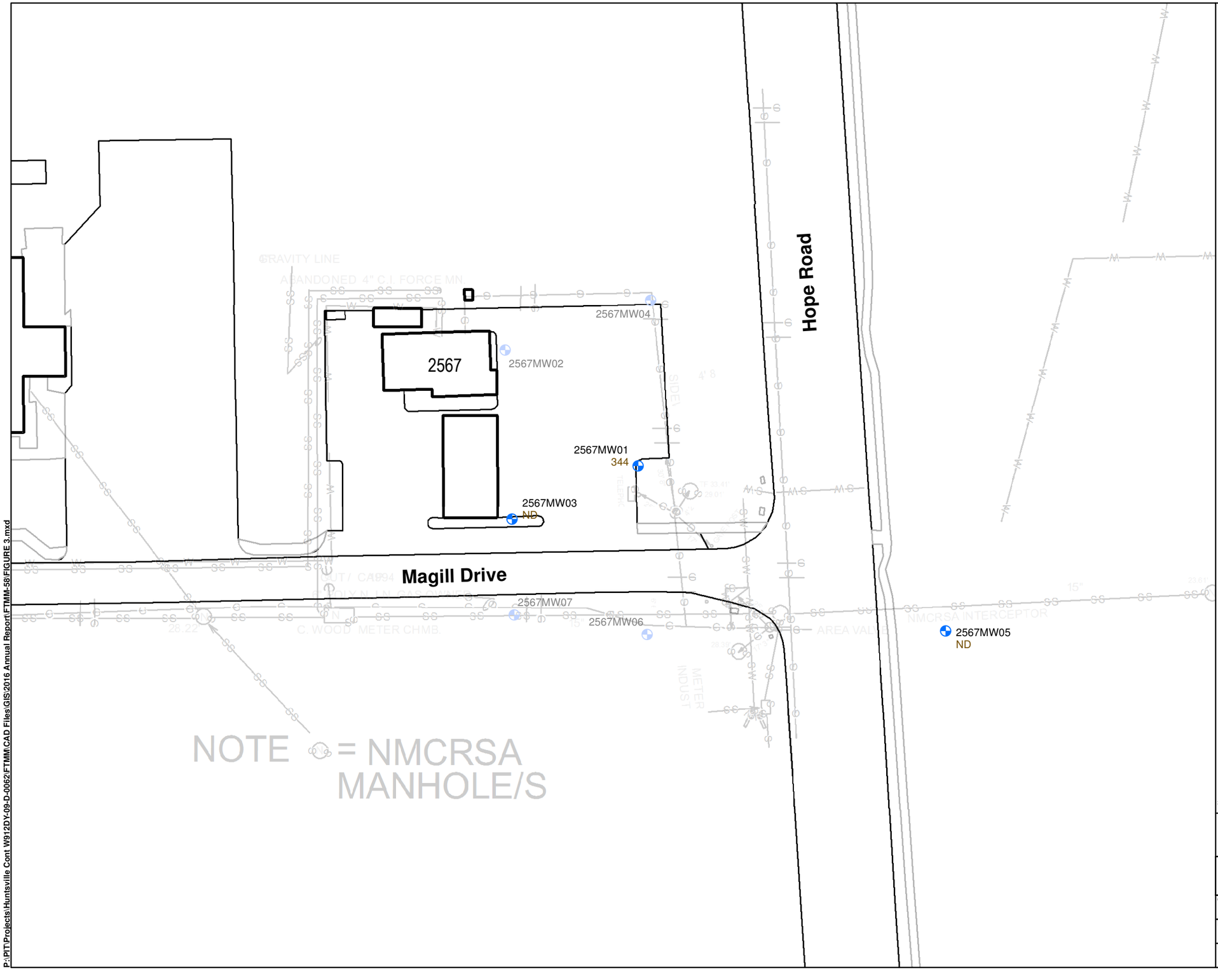
Source: FTMM Supplied CAD

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey

FTMM-58 SHALLOW GROUNDWATER CONTOURS - OCTOBER 21, 2016

CREATED BY: RR	REVIEWED BY: CM
DATE: DEC. 2016	FIGURE NUMBER: FIGURE 2
PROJECT NUMBER: 748810-01000	FILE: FIGURE 2.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\2016 Annual Report\FTMM-58\FIGURE 2.mxd



LEGEND:

- Shallow Monitoring Well
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line

NOTES:

1. All concentrations are in ug/L.
2. Only those compounds with concentrations that exceed the NJDEP groundwater quality standard (GWQS) are shown on the figure.
3. Wells without values were not sampled during the 2016 Annual Sampling Event.

EXPLANATION:

2567MW03 ——— Sample ID
NA ——— Tert Butyl Alcohol Concentration

J - Estimated Value
JN - Tentatively Identified Compound, Estimated Value
ND - Not Detected
NA - Not Analyzed
-- - Compound did not exceed the NJ GWQS this sampling round

Compound	NJDEP GWQS
Tert Butyl Alcohol	100

DRAFT

N

1 inch = 50 feet

0 25 50 100 Feet

Source: FTMM Supplied CAD

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey

FTMM-58 CHEMICAL CONSTITUENTS ABOVE NJDEP GWQS 2016 ANNUAL SAMPLING EVENT

CREATED BY: RR	REVIEWED BY: CM
DATE: DEC. 2016	FIGURE NUMBER: FIGURE 3
PROJECT NUMBER: 748810-03000	FILE: FIGURE 3.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\2016 Annual Report\FTMM-58\FIGURE 3.mxd

ATTACHMENTS

Attachment A LFPS Field Sheets

LOW FLOW GROUND WATER SAMPLING - DATA SHEET

SHEET 1 OF 1

PROJECT SITE/LOCATION: FTMM-55 | CONSULTING FIRM: PARSONS
DATE: 10/21/16 | FIELD PERSONNEL: D. Lobos
WEATHER: 65°F Heavy Rain

MONITOR WELL #: 256TMW01 | WELL DEPTH: 13 feet | PUMP INTAKE DEPTH: 8.6 ft to TOC
WELL PERMIT #: | WELL DIAMETER: 2 inches | SCREENED/OPEN INTERVAL: 3-13 ft to TOC

PID/FID READINGS:
BACKGROUND: 0.0 ppm
BENEATH OUTER CAP: 0.0 ppm
BENEATH INNER CAP: 0.0 ppm

GAUGING/PUMPING INFORMATION:
INITIAL DEPTH TO WATER (BEFORE PUMP INSTALLATION): 4.17 ft to TOC
DEPTH TO PRODUCT: — ft to TOC ; PRODUCT THICKNESS: — ft
MAKE/MODEL OF PUMP: 1.75" QED Sample Pro

WATER QUALITY METER INFORMATION:
INSTRUMENT MAKE/MODEL: YSI 6920
SERIAL #: 11C001407
TEMP. CORRECTION VALUE: -0.48

Time	PURGING	SAMPLING	pH (units) READING	pH (units) CHANGE	SPECIFIC CONDUCTIVITY (mS/cm) READING	SPECIFIC CONDUCTIVITY (mS/cm) CHANGE	REDOX POTENTIAL (mV) READING	REDOX POTENTIAL (mV) CHANGE	DISSOLVED OXYGEN (mg/L) READING	DISSOLVED OXYGEN (mg/L) CHANGE	TURBIDITY (NTU) READING	TURBIDITY (NTU) CHANGE	TEMPERATURE (degrees C) READING	TEMPERATURE (degrees C) CHANGE	PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
0920	X		6.58		1.050		-71.1		2.37		23.9		20.45		250	4.17
0925	X		6.67		1.017		-59.0		0.82		12.3		20.51		250	4.29
0930	X		6.69		1.015		-58.6		0.61		10.5		20.54		250	4.48
0935	X		6.69		1.011		-73.6		0.48		9.0		20.57		200	4.41
0940	X		6.69		1.008		-73.7		0.44		8.5		20.55		200	4.35
0945	X		6.69		1.007		-73.6		0.43		8.3		20.57		200	4.33
0950		X	6.70		1.005		-74.1		0.41		8.0		20.54		200	4.33

SAMPLING INFORMATION:
Sample ID: FTMM-55-GW-256TMW01-8.6
Sample Time: 0950
Comments: —

QA/QC INFORMATION:
Duplicate Collected?: No
MS/MSD Collected?: No
Filtering?: No

ADDITIONAL OBSERVATIONS/COMMENTS:
Clarity: clear
Odor: none
Other: —

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
pH: ± 0.1 units ; Spec. Conductivity: ± 3% ; ORP: ± 10mV ; D.O.: ± 10% ; Turbidity: ± 10% (or <1 NTU) ; Temperature: ± 3%. ; Water Level Change: < 0.3 ft

ANALYST NAME & SIGNATURE: D. Lobos — DATE: 10/21/16
REVIEWER NAME & SIGNATURE: — DATE:

LOW FLOW GROUND WATER SAMPLING - DATA SHEET

SHEET 1 OF 1

PROJECT SITE/LOCATION: FMM-55 | CONSULTING FIRM: PARSONS
DATE: 10/21/16 | FIELD PERSONNEL: J. Lalzos
WEATHER: 65° F Heavy Rain
MONITOR WELL #: 055MW03 | WELL DEPTH: 13.00 feet | PUMP INTAKE DEPTH: 8 ft to TOC
WELL PERMIT #: | WELL DIAMETER: 4 inches | SCREENED/OPEN INTERVAL: 3-13 ft to TOC

PID/FID READINGS:
BACKGROUND: 0.0 ppm
BENEATH OUTER CAP: 0.0 ppm
BENEATH INNER CAP: 0.0 ppm

GAUGING/PUMPING INFORMATION:
INITIAL DEPTH TO WATER (BEFORE PUMP INSTALLATION): 2.81 ft to TOC
DEPTH TO PRODUCT: — ft to TOC ; PRODUCT THICKNESS: — ft
MAKE/MODEL OF PUMP: 1.75" QED Sample Pro

WATER QUALITY METER INFORMATION:
INSTRUMENT MAKE/MODEL: YSI 6920
SERIAL #: 16001401
TEMP. CORRECTION VALUE: -0.08

Time	PURGING	SAMPLING	pH (units) READING	pH (units) CHANGE	SPECIFIC CONDUCTIVITY (mS/cm) READING	SPECIFIC CONDUCTIVITY (mS/cm) CHANGE	REDOX POTENTIAL (mV) READING	REDOX POTENTIAL (mV) CHANGE	DISSOLVED OXYGEN (mg/L) READING	DISSOLVED OXYGEN (mg/L) CHANGE	TURBIDITY (NTU) READING	TURBIDITY (NTU) CHANGE	TEMPERATURE (degrees C) READING	TEMPERATURE (degrees C) CHANGE	PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
1010	X		6.61		1876		-66.3		1.96		<7.6		20.11		200	2.87
1015	X		6.61		1.982		-76.4		0.68		46.7		20.12		200	3.16
1020	X		6.61		1.960		-80.9		0.54		34.0		20.20		150	3.20
1025	X		6.61		1.957		-81.3		0.48		30.4		20.21		150	3.84
1030	X		6.60		1.943		-81.3		0.45		32.1		20.24		150	3.84
1035		X	6.60		1.939		-80.0		0.43		29.6		20.29		150	3.84

SAMPLING INFORMATION:
Sample ID: FMM-55-GW-0567MW03-8
Sample Time: 1035
Comments: Rain water in casing.

QA/QC INFORMATION:
Duplicate Collected?: No
MS/MSD Collected?: No
Filtering?: No

ADDITIONAL OBSERVATIONS/COMMENTS:
Clarity: slightly cloudy
Odor: none
Other: rain water in well casing when gauged.

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
pH: ± 0.1 units ; Spec. Conductivity: ± 3% ; ORP: ± 10mV ; D.O.: ± 10% ; Turbidity: ± 10% (or <1 NTU) ; Temperature: ± 3%. ; Water Level Change: < 0.3 ft.

ANALYST NAME & SIGNATURE: J. Lalzos — DATE: 10/21/16
REVIEWER NAME & SIGNATURE: — DATE:

LOW FLOW GROUND WATER SAMPLING - DATA SHEET

SHEET ____ OF ____

PROJECT SITE/LOCATION: FTMM-58 CONSULTING FIRM: PARSONS
DATE: 10/26/16 FIELD PERSONNEL: ____
WEATHER: Rain 60°F

MONITOR WELL #: 2567MW05 WELL DEPTH: ____ feet PUMP INTAKE DEPTH: ____ ft to TOC
WELL PERMIT #: ____ WELL DIAMETER: 4 inches SCREENED/OPEN INTERVAL: 5-15 ft to TOC

PID/FID READINGS:
BACKGROUND: 0 ppm
BENEATH OUTER CAP: 6 ppm
BENEATH INNER CAP: 0 ppm

GAUGING/PUMPING INFORMATION:
INITIAL DEPTH TO WATER (BEFORE PUMP INSTALLATION): 7.25 ft to TOC
DEPTH TO PRODUCT: — ft to TOC ; PRODUCT THICKNESS: — ft
MAKE/MODEL OF PUMP: QED Sample Pro

WATER QUALITY METER INFORMATION:
INSTRUMENT MAKE/MODEL: ____
SERIAL #: ____
TEMP. CORRECTION VALUE: ____

Time	PURGING	SAMPLING	pH (units) READING	pH (units) CHANGE	SPECIFIC CONDUCTIVITY (mS/cm) READING	SPECIFIC CONDUCTIVITY (mS/cm) CHANGE	REDOX POTENTIAL (mV) READING	REDOX POTENTIAL (mV) CHANGE	DISSOLVED OXYGEN (mg/L) READING	DISSOLVED OXYGEN (mg/L) CHANGE	TURBIDITY (NTU) READING	TURBIDITY (NTU) CHANGE	TEMPERATURE (degrees C) READING	TEMPERATURE (degrees C) CHANGE	PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
0930	X		5.56		0.238		160.7		0.83		109.4		18.65		200	7.51
0935	X		5.20		0.232		178.0		0.26		86.7		18.05		200	7.65
0940	X		5.20		0.231		182.6		0.2		76.2		17.98		200	7.84
0945	X		5.29		0.230		184.2		2.0		56.9		18.01		200	8.04
0950	X		5.34		0.230		185.3		2.34		47.1		18.22		150	8.16
0955	X		5.34		0.231		189.6		2.30		44.7		18.35		150	8.22
1000	X		5.33		0.231		192.2		2.29		45.4		18.46		150	8.40
1005		X	5.33		0.231		194.0		2.25		46.3		18.50		150	8.53

SAMPLING INFORMATION:
Sample ID: FTMM-58-GW-2567MW05-
Sample Time:
Comments:

QA/QC INFORMATION:
Duplicate Collected?:
MS/MSD Collected?:
Filtering?:

ADDITIONAL OBSERVATIONS/COMMENTS:
Clarity:
Odor:
Other:

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
pH: ± 0.1 units ; Spec. Conductivity: ± 3% ; ORP: ± 10mV ; D.O.: ± 10% ; Turbidity: ± 10% (or <1 NTU) ; Temperature: ± 3%. ; Water Level Change: < 0.3 ft

ANALYST NAME & SIGNATURE: DATE:
REVIEWER NAME & SIGNATURE: DATE:

APPENDIX B

FTMM-64: BUILDING 812 UST GASOLINE

APPENDIX B: FTMM-64 Building 812 UST Gasoline

TABLE OF CONTENTS

1.0 WATER LEVEL MEASUREMENTS AND WELL ASSESSMENT B-1
2.0 GROUNDWATER SAMPLING B-1
3.0 HISTORICAL GROUNDWATER SAMPLING RESULTS B-1
4.0 ANNUAL (FOURTH QUARTER) 2016 GROUNDWATER RESULTS B-2
5.0 FINDINGS AND RECOMMENDATIONS B-3

LIST OF TABLES

Table No.	Title
1	Groundwater Gauging Data and Elevations (October 20-21, 2016) and LFPS Sampling Summary
2	Historical Groundwater Analytical Results
3	Groundwater Analytical Results - 2013, 2014, 2015, and 2016
4	Review of Historical Groundwater Sampling Results

LIST OF FIGURES

Figure No.	Title
1	Layout of FTMM-64 Building 812 UST Gasoline
2	FTMM-64 Shallow Groundwater Contours - October 20, 2016

LIST OF ATTACHMENTS

Attachment	Title
A	LFPS Field Sheets

1.0 WATER LEVEL MEASUREMENTS AND WELL ASSESSMENT

Monitoring wells located within FTMM-64 were gauged on October 20-21, 2016. Monitoring well locations as well as other site features are provided in **Figure 1**. Details regarding the water level measurements are provided in **Table 1**. Groundwater elevations in monitoring wells ranged from 16.99 (812MW04) to 9.02 (812MW11) feet above mean sea level (amsl). The inferred shallow and deep groundwater flow direction is generally to the northeast. **Figure 2** shows the shallow groundwater flow direction; groundwater contours were not drawn for the deep groundwater.

During the groundwater gauging, the physical condition of FTMM-64 monitoring wells were assessed. The site monitoring wells were generally found to be in good condition. Monitoring well 812MW12 could not be located and is suspected to have been destroyed during recent paving. Heavy rainfall occurred on October 20, 2016 preventing access to shallow monitoring wells 812MW05 and 812MW13 due to water accumulation over the wells. The affected wells were subsequently gauged on October 21, 2016, but the data was not used in the preparation of the groundwater contours.

2.0 GROUNDWATER SAMPLING

One groundwater sample was collected from monitoring well 812MW04 located at FTMM-64 as part of the annual (fourth quarter) 2016 groundwater sampling event. FTMM-64 has been sampled on an annual basis from 2013 through 2016. The groundwater sampling program included measuring the depth to groundwater in monitoring wells prior to sampling and collection of a groundwater sample using low-flow purging and sampling (LFPS). The groundwater sample was collected on October 20, 2016. The groundwater sample was analyzed for Target Compound List (TCL) volatile organic compounds (VOCs) via the United States Environmental Protection Agency (USEPA) Method SW8260C.

This sample was collected in accordance with the New Jersey Department of Environmental Protection (NJDEP) Field Sampling Procedures Manual (FSPM) and the Sampling Analysis Plan (SAP). Field blanks, duplicates, matrix spike, matrix spike duplicate and quality assurance (QA) split samples were collected for every 5% of samples collected per parameter, per matrix, in accordance with the Quality Assurance Project Plan (QAPP). Trip blanks accompanied each cooler each day in which VOCs were collected for laboratory analysis.

The completed LFPS field sheets can be found in **Attachment A**.

3.0 HISTORICAL GROUNDWATER SAMPLING RESULTS

From February 2008 through July 2011, FTMM-64 monitoring wells were sampled for volatile organic compounds (VOCs) and metals.

In the last four historical groundwater sampling events conducted at FTMM-64 from November 2010 to July 2011, samples were submitted for VOCs and metals. Monitoring wells within FTMM-64 were sampled on a staggered quarterly basis during this period. Within the last four events of groundwater sampling at FTMM-64, aluminum, antimony, arsenic, beryllium, cadmium, iron, lead, manganese and sodium were detected above their respective NJDEP

Ground Water Quality Standard (GWQS). However, only sodium, manganese, and cadmium were detected above the background concentrations (Weston, 1995). Monitoring wells 812MW04, 812MW05, 812MW06 812MW07, 812MW08, and 812MW14 contained detections of sodium above the background concentration of 21,500 µg/l (Weston, 1995). Monitoring wells 812MW05 (419 - 32 µg/L), 812MW07 (374 - 771 µg/L), and 812MW08 (348 µg/L) contained detections of manganese above the background concentration of 331 µg/l (Weston, 1995). Cadmium was detected in 812MW08 (10.6 - 54 µg/L) above the background concentration of 9.5 µg/L (Weston, 1995).

In the last four historical quarterly groundwater sampling events, vinyl chloride (1.05 - 4.9 µg/L) has historically been detected in 812MW04 above the NJDEP GWQS of 1 µg/L. Historical groundwater analytical results are presented in **Table 2**.

During the August 2013 baseline sampling event, eight monitoring wells were sampled for VOCs and lead. Lead was detected in monitoring well 812MW04 at a concentration of 7.5 µg/L, above the NJDEP GWQS of 5 µg/L. However, this result is below the background concentration of 22.7 µg/L for lead (Weston, 1995). Concentrations of VOCs were non-detect during the August 2013 baseline groundwater sampling event. Groundwater analytical detections from samples collected during the August 2013 sampling event are presented in **Table 3.**

The Final August 2013 Baseline Groundwater Sampling Report was accepted by the NJDEP in their February 5, 2015 letter. Based on this approval, seven out of the eight groundwater monitoring wells were removed from the long-term monitoring (LTM) program including: 812MW01, 812MW02, 812MW05, 812MW06, 812MW07, 812MW08 and 812MW14; lead analysis was discontinued.

During the annual (fourth quarter) 2014 sampling event vinyl chloride was the only VOC detected in monitoring well 812MW04 at a concentration of 7.8 µg/L, above the NJDEP GWQS of 1 µg/L. Groundwater analytical results for this well are presented in **Table 3**. Based on the annual (fourth quarter) 2014 results, it was recommended that annual groundwater sampling continue at monitoring well 812MW04. The Annual (Fourth Quarter) 2014 Groundwater Sampling Report was accepted by the NJDEP in their January 26, 2016 letter.

During the annual (fourth quarter) 2015 sampling event acetone, a common laboratory contaminant, was the only VOC detected in monitoring well 812MW04. Acetone was also detected in the blank for this sample set, therefore it was not representative of site conditions. Groundwater analytical results for this well are presented in **Table 3**. Based on the annual (fourth quarter) 2015 results, it was recommended that annual groundwater sampling continue at monitoring well 812MW04 for one additional round. The Annual (Fourth Quarter) 2015 Groundwater Sampling Report was accepted by the NJDEP in their November 14, 2016 letter.

4.0 ANNUAL (FOURTH QUARTER) 2016 GROUNDWATER RESULTS

No compounds were detected above the NJDEP GWQSs. Groundwater analytical results for this well are presented in **Table 3**.

5.0 FINDINGS AND RECOMMENDATIONS

Vinyl chloride was previously detected in well 812MW04 at concentrations above the NJDEP GWQS of 1 µg/L in 2014, but was not detected in 2015. During the 2016 Annual Sampling Event vinyl chloride was non-detect in the primary sample and was detected at a concentration of 0.76 µg/L in the field duplicate sample. Vinyl chloride concentrations appear to be decreasing based on the historical data. Based on the collective groundwater analytical results, annual groundwater monitoring for VOCs is recommended to be discontinued for well 812MW04. A review of historical groundwater sampling results is presented in **Table 4**, which also provides the matrix used to determine the status of wells relative to future groundwater sampling and analyses.

No Further Action (NFA) for groundwater at FTMM-64 was approved by the NJDEP in their April 28, 2017 letter.

TABLES

Table 1 Groundwater Gauging Data and Elevations (October 20-21, 2016) and LFPS Sampling Summary

Table 2 Historical Groundwater Analytical Results

Table 3 Groundwater Analytical Results - 2013, 2014, 2015, and 2016

Table 4 Review of Historical Groundwater Sampling Results

Table 1
Groundwater Gauging Data and Elevations (October 20-21, 2016) and LFPS Sampling Summary
Site FTMM-64 Building 812 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Site/Well ID	Installation Date	Well Permit #	Y Coord. (North)	X Coord. (East)	Depth (ft. bgs)	Casing Length (ft)	Screen Length (ft)	TOC Elevation (ft)	Gauge Time	Gauged Depth to Water (ft. TOC)	Gauged Depth to Bottom (ft. TOC)	Calculated Groundwater Elevation (ft)	Sample Date
Shallow Monitoring Wells													
812MW04	4/26/2000	29-42575	537927.03	620620.87	7.0	2.0	5.0	19.90	9:00	2.91	6.61	16.99	10/20/2016
812MW05	5/4/2000	29-42576	537893.36	620502.25	18.0	8.0	10.0	21.64	12:46	9.53	17.31	12.11	
812MW06	4/26/2000	29-42577	537917.09	620674.17	16.0	6.0	10.0	18.18	7:42	7.11	15.50	11.07	
812MW07	5/3/2000	29-42578	537966.22	620504.46	18.0	8.0	10.0	20.60	7:57	10.09	17.50	10.51	
812MW08	5/2/2000	29-42579	537955.95	620658.94	16.0	6.0	10.0	17.13	7:43	6.21	18.50	10.92	
812MW09	5/2/2000	29-42580	538025.14	620745.02	16.0	6.0	10.0	14.98	7:50	5.13	15.80	9.85	
812MW10	5/3/2000	29-42581	538060.18	620800.53	16.0	6.0	10.0	14.42	7:51	0.42	15.50	14.00	
812MW11	5/2/2000	29-42582	538010.79	620911.32	15.0	5.0	10.0	14.02	7:53	5.00	14.80	9.02	
812MW12	5/3/2000	29-42583	537833.43	620758.45	16.0	6.0	10.0	16.11	--	--	--	--	
812MW13	5/4/2000	29-42584	537800.11	620386.04	19.0	9.0	10.0	24.15	12:40	10.60	18.81	13.55	
812MW14	5/12/2000	29-42888	538042.22	620663.45	15.0	5.0	10.0	16.43	7:48	6.66	14.30	9.77	
Deep Monitoring Wells													
812MW01	5/4/2000	29-42572	537928.67	620621.94	50.0	30.0	20.0	19.05	7:40	8.21	47.00	10.84	
812MW02	4/26/2000	29-42573	537983.57	620692.55	50.0	30.0	20.0	16.38	7:46	6.44	48.00	9.94	
812MW03	5/5/2000	29-42574	537893.56	620721.26	50.0	30.0	20.0	17.07	12:30	6.50	46.20	10.57	

Notes:
1) The synoptic round of water levels in the wells was collected on October 20, 2016. Due to weather conditions, 3 wells (812MW05, 812MW13, 812MW03) were gauged on 10/21/2016.
2) Information on well permit number, X and Y coordinates, depth, screen length, screen interval and TOC elevation were provided by FTMM in a table in June 2013.
3) ft = feet
4) DTW = depth to water (measured from the top of well casing)
5) DTB = depth to bottom of well (measured from the top of well casing)
6) bgs = below ground surface
7) ppm = parts per million (of VOCs)
8) TOC = Top of Casing
9) Elevation = feet above mean sea level
10) N/A = information not available
11) LFPS = Low-Flow Purging and Sampling
12) -- = Unable to locate monitoring well 812MW12

Table 2
Historical Groundwater Analytical Results
Site FTMM-64 Building 812 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

				812MW01																	
Round No.	**NJDEP GWQS**	**USEPA MCL**	**Weston 1995 Background (Main)**	31	32	32 Dup	33	34	34 Dup	35	36	37	38	39	LF1	LF1 Dup	LF2	LF2 Dup		Dup			Dup
Date Collected				2/20/2008	4/9/2008	4/9/2008	7/25/2008	10/22/2008	10/22/2008	2/6/2009	4/28/2009	8/10/2009	10/9/2009	1/14/2010	5/13/2010	5/13/2010	7/28/2010	7/28/2010	11/3/2010	11/3/2010	2/14/2011	4/14/2011	4/14/2011
ANALYTE/Lab ID				80051.04	80120.04	80120.03	80256.04	80383.04	80383.03	90039.04	90171.04	90336.04	90412.04	10018.04	10191.04	10191.03	10323.04	10323.03	10471.04	10471.03	11051.01	11148.04	11148.03
Volatile Organic Compounds (µg/L)																							
Benzene	1	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert -Butyl alcohol	100	NLE	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis -1,2-Dichloroethene	70	70	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans -1,2-Dichloroethene	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NLE	NLE	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	700	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	NLE	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl *tert* -butyl ether	70	NLE	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1		--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	600	1000	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (Total)	1000	10,000	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TICs*	500	NLE	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals (µg/L)																							
Aluminum	200	NLE	121000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	40.0 ER	ND	15.0 ER	15.6 ER	<200	<200	<200
Antimony	6	6	20.70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.7	6.21 ER	11.0	8.04 ER	ND	5.26 ER	<6.0	<6.0	<6.0
Arsenic	3	10	89.30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.24 ER	0.780 ER	0.910 ER	6.04	2.24 ER	2.01 ER	<3.0	<3.0	<3.0
Barium	6000	2000	699.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.68	6.78	8.60	6.84	11.3	10.6	<200	<200	<200
Beryllium	1	4	2.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	<1.0	<1.0	<1.0
Cadmium	4	5	9.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	<3.0	<3.0	<3.0
Calcium	NLE	NLE	45400.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	53700	47400	59900	52800	63700	58900	60400	59000	60400
Chromium	70	100	191.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	<10	<10	<10
Cobalt	NLE	NLE	18.30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	<50	<50	<50
Copper	1300	1300	65.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.09 ER	ND	3.00 ER	ND	ND	ND	<10	13.0	20.7
Iron	300	NLE	431000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	387 ER	218 ER	640	131 ER	3870	3530	2070	2660	4610
Lead	5	15	22.70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	<3.0	<3.0	<3.0
Magnesium	NLE	NLE	62700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2430	2230	2850	2460	3160	2940	<5000	<5000	<5000
Manganese	50	NLE	331	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.5	12.6	68.1	57.6	258	238	176	191	207
Mercury	2	2	0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.210 ER	0.150 ER	ND	ND	ND	ND	<0.20	<0.20	<0.20
Nickel	100	NLE	187	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.15 ER	0.855 ER	1.00 ER	0.712 ER	ND	ND	<10	<10	<10
Potassium	NLE	NLE	137000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3780	3540	3590	2700	3240	3040	<10000	<10000	<10000
Selenium	40	50	29.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NR	NR	67.0	70.6	ND	ND	<10	<10	<10
Silver	40	NLE	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	1.41 ER	1.32 ER	<10	<10	<10
Sodium	50000	NLE	21500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6040	7570	7500	5680	6660	5940	<10000	<10000	<10000
Thallium	2	2	5.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	<2.0	<2.0	<2.0
Vanadium	60	NLE	108	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.840 ER	ND	ND	ND	ND	ND	<50	<50	<50
Zinc	2000	NLE	233	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.42 ER	2.18 ER	6.00 ER	ND	ND	ND	<20	<20	<20

Notes:

Shaded cells = concentrations exceed the NJDEP GWQS

*TICs - Tentatively identified compounds, cannot exceed 500 µg/L for total VOCs and SVOCs. No individual compound can exceed 100 µg/L.

NJDEP Ground Water Quality Criteria as per N.J.A.C. 7:9-6 (July 22, 2010)

U.S. Environmental Protection Agency Maximum Contaminant Level (2012)

LF = Low-flow sampling method used to collect sample

ER - Estimated result

J - Estimated concentration exceeds the MDL and is less than the RL

NA - Not analyzed NR - Not reported

ND - Not detected

NLE - No limit established

a/ Elevated sample detection limit due to difficult sample matrix.

Table 2
Historical Groundwater Analytical Results
Site FTMM-64 Building 812 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

				812MW01	812MW02														812MW04			
Round No.	**NJDEP GWQS**	**USEPA MCL**	**Weston 1995 Background (Main)**		31	32	33	34	35	36	37	38	39	40	41							
Date Collected				7/8/2011	2/20/2008	4/9/2008	7/25/2008	10/22/2008	2/6/2009	4/28/2009	8/10/2009	10/9/2009	1/14/2010	5/13/2010	7/28/2010	11/3/2010	2/14/2011	4/14/2011	7/8/2011	2/20/2008	4/9/2008	7/25/2008	10/22/2008
ANALYTE/Lab ID				11287.10	80051.05	80120.05	80256.05	80383.05	90039.05	90171.05	90336.05	90412.05	10018.05	10191.05	10323.05	10471.05	11051.02	11148.05	11287.11	80051.06	80120.06	80256.06	80383.06
Volatile Organic Compounds (µg/L)																						
Benzene	1	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49 J	2.19
tert -Butyl alcohol	100	NLE	--	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	10.66	ND
1,1-Dichloroethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis -1,2-Dichloroethene	70	70	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.11 J	0.44 J
trans -1,2-Dichloroethene	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.05 J	1.07 J
Chloroethane	NLE	NLE	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	700	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.01	37.12
Isopropylbenzene	700	NLE	--	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA
Methyl *tert* -butyl ether	70	NLE	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1		--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	600	1000	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.99	7.36
Vinyl chloride	1			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	22.47	40.41
Xylenes (Total)	1000	10,000	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	45.47	33.86
TICs*	500	NLE	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	133	104
Metals (µg/L)																							
Aluminum	200	NLE	121000	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	99.2 ER	ND	<200	<200	<200	NA	NA	NA	NA
Antimony	6	6	20.70	<6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.56 ER	9.96 ER	6.80 ER	<6.0	<6.0	<6.0	NA	NA	NA	NA
Arsenic	3	10	89.30	<3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.41 ER	1.36 ER	2.83 ER	<3.0	4.0	<3.0	NA	NA	NA	NA
Barium	6000	2000	699.00	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	17.0	19.1	20.0	<200	<200	<200	NA	NA	NA	NA
Beryllium	1	4	2.10	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	<1.0	<1.0	<1.0	NA	NA	NA	NA
Cadmium	4	5	9.50	<3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	<3.0	<3.0	<3.0	NA	NA	NA	NA
Calcium	NLE	NLE	45400.00	55300	NA	NA	NA	NA	NA	NA	NA	NA	NA	52900	58500	57100	60400	57600	57100	NA	NA	NA	NA
Chromium	70	100	191.00	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	<10	<10	<10	NA	NA	NA	NA
Cobalt	NLE	NLE	18.30	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	<50	<50	<50	NA	NA	NA	NA
Copper	1300	1300	65.60	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	1.71 ER	ND	<10	<10	<10	NA	NA	NA	NA
Iron	300	NLE	431000	2030	NA	NA	NA	NA	NA	NA	NA	NA	NA	128 ER	297 ER	646	588	2080	254	NA	NA	NA	NA
Lead	5	15	22.70	<3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	<3.0	<3.0	<3.0	NA	NA	NA	NA
Magnesium	NLE	NLE	62700	<5000	NA	NA	NA	NA	NA	NA	NA	NA	NA	2540	3200	3320	<5000	<5000	<5000	NA	NA	NA	NA
Manganese	50	NLE	331	158	NA	NA	NA	NA	NA	NA	NA	NA	NA	63.2	32.6	204	132	62.3	102	NA	NA	NA	NA
Mercury	2	2	0.26	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.210 ER	ND	ND	<0.20	<0.20	<0.20	NA	NA	NA	NA
Nickel	100	NLE	187	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	<10	<10	<10	NA	NA	NA	NA
Potassium	NLE	NLE	137000	<10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	5360	5380	4670	<10000	<10000	<10000	NA	NA	NA	NA
Selenium	40	50	29.60	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NR	55.0	ND	<10	<10	<10	NA	NA	NA	NA
Silver	40	NLE	ND	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	1.56 ER	<10	<10	<10	NA	NA	NA	NA
Sodium	50000	NLE	21500	19500	NA	NA	NA	NA	NA	NA	NA	NA	NA	10200	16100	11300	12400	12500	<10000	NA	NA	NA	NA
Thallium	2	2	5.50	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	<2.0	<2.0	<2.0	NA	NA	NA	NA
Vanadium	60	NLE	108	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	0.668 ER	ND	<50	<50	<50	NA	NA	NA	NA
Zinc	2000	NLE	233	<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	7.23 ER	ND	<20	<20	<20	NA	NA	NA	NA

Notes:

Shaded cells = concentrations exceed the NJDEP GWQS

*TICs - Tentatively identified compounds, cannot exceed 500 µg/L for total VOCs and SVOCs. No individual compound can exceed 100 µg/L.

NJDEP Ground Water Quality Criteria as per N.J.A.C. 7:9-6 (July 22, 2010)

U.S. Environmental Protection Agency Maximum Contaminant Level (2012)

LF = Low-flow sampling method used to collect sample

ER - Estimated result

J - Estimated concentration exceeds the MDL and is less than the RL

NA - Not analyzed NR - Not reported

ND - Not detected

NLE - No limit established

a/ Elevated sample detection limit due to difficult sample matrix.

Table 2
Historical Groundwater Analytical Results
Site FTMM-64 Building 812 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

				812MW04											812MW05							
Round No.	**NJDEP GWQS**	**USEPA MCL**	**Weston 1995 Background (Main)**	35	36	37	38	39	LF1	LF2					31	32	33	34	35	36	37	38
Date Collected				2/6/2009	4/28/2009	8/10/2009	10/9/2009	1/14/2010	5/13/2010	8/3/2010	11/5/2010	2/15/2011	4/14/2011	7/8/2011	2/20/2008	4/9/2008	7/25/2008	10/22/2008	2/6/2009	4/28/2009	8/10/2009	10/9/2009
ANALYTE/Lab ID				90039.06	90171.06	90336.06	90412.06	10018.06	10191.07	10326.07	10474.06	11053.08	11148.09	11287.09	80051.07	80120.07	80256.07	80383.07	90039.07	90171.07	90336.07	90412.07
Volatile Organic Compounds (µg/L)																						
Benzene	1	5	--	ND	ND	0.27 J	ND	ND	ND	0.31 J	ND	ND	ND	0.25 J	ND	ND	ND	ND	ND	ND	ND	ND
tert -Butyl alcohol	100	NLE	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.31 J	18.89	7.32	2.02	13.86	7.27	8.36	22.57
1,1-Dichloroethene				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.37 J
cis -1,2-Dichloroethene	70	70	--	ND	ND	0.89	0.51	ND	ND	1.67	ND	ND	ND	0.49 J	ND	ND	ND	ND	ND	ND	ND	ND
trans -1,2-Dichloroethene	100			ND	ND	0.66	0.26 J	ND	ND	0.70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NLE	NLE	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.69	3.63	ND	8.14	1.68 J	0.64	1.83
Ethylbenzene	700	700	--	0.98 J	ND	4.89	0.30 J	ND	ND	0.33 J	ND	ND	ND	0.62 J	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	NLE	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.60 J	NA	NA	NA	NA	NA	NA	NA	NA
Methyl *tert* -butyl ether	70	NLE	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1		--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.44 J
1,1,1-Trichloroethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.49 J	1.62 J	1.02 J	3.43	2.44	2.07	3.34
Trichloroethene	1	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.31 J
Toluene	600	1000	--	ND	ND	0.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1			ND	ND	12.25	5.11	1.95	1.77	9.79	ND	ND	1.05	4.9	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (Total)	1000	10,000	--	0.38 J	ND	3.06	0.40 J	ND	ND	0.87	ND	ND	ND	0.74 J	ND	ND	ND	ND	ND	ND	ND	ND
TICs*	500	NLE	--	ND	ND	26	3	ND	ND	13	ND	ND	ND	5.6	ND	ND	ND	ND	ND	ND	ND	ND
Metals (µg/L)																						
Aluminum	200	NLE	121000	NA	NA	NA	NA	NA	65.2 ER	49.0 ER	2490	8070	1240	<200	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	6	6	20.70	NA	NA	NA	NA	NA	8.73 ER	13.0	5.24 ER	<6.0	<6.0	<6.0	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	3	10	89.30	NA	NA	NA	NA	NA	3.34 ER	5.49	4.33 ER	9.6	3.1	9.4	NA	NA	NA	NA	NA	NA	NA	NA
Barium	6000	2000	699.00	NA	NA	NA	NA	NA	23.2	34.7	27.0	<200	<200	<200	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	1	4	2.10	NA	NA	NA	NA	NA	ND	ND	ND	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	4	5	9.50	NA	NA	NA	NA	NA	ND	1.10 ER	0.723 ER	4.3	7.4	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	45400.00	NA	NA	NA	NA	NA	41300	92300	50100	19400	37500	95200	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	70	100	191.00	NA	NA	NA	NA	NA	ND	ND	12.8	41.9	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NLE	NLE	18.30	NA	NA	NA	NA	NA	ND	ND	0.544 ER	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1300	1300	65.60	NA	NA	NA	NA	NA	16.1	11.0	13.0	27.2	61.2	11.0	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NLE	431000	NA	NA	NA	NA	NA	ND	1630	5670	17300	3900	1280	NA	NA	NA	NA	NA	NA	NA	NA
Lead	5	15	22.70	NA	NA	NA	NA	NA	ND	ND	6.98	21.0	18.4	<3.0	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	62700	NA	NA	NA	NA	NA	2750	5070	2740	<5000	<5000	<5000	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NLE	331	NA	NA	NA	NA	NA	12.1	64.2	13.8	35.5	34.9	66.1	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2	2	0.26	NA	NA	NA	NA	NA	0.210 ER	ND	ND	<0.20	<0.20	<0.20	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NLE	187	NA	NA	NA	NA	NA	1.06 ER	2.46 ER	2.66 ER	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	137000	NA	NA	NA	NA	NA	8370	12600	8210	<10000	<10000	10900	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	40	50	29.60	NA	NA	NA	NA	NA	NR	73.4	ND	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA
Silver	40	NLE	ND	NA	NA	NA	NA	NA	ND	ND	0.708 ER	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	50000	NLE	21500	NA	NA	NA	NA	NA	43800	59900	34800	30300	32100	75100	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	2	2	5.50	NA	NA	NA	NA	NA	ND	ND	0.870 ER	<2.0	<2.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	60	NLE	108	NA	NA	NA	NA	NA	3.63 ER	2.68 ER	11.1	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000	NLE	233	NA	NA	NA	NA	NA	21.3 ER	24.0 ER	31.8 ER	74.5	95.5	48.3	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cells = concentrations exceed the NJDEP GWQS

*TICs - Tentatively identified compounds, cannot exceed 500 µg/L for total VOCs and SVOCs. No individual compound can exceed 100 µg/L.

NJDEP Ground Water Quality Criteria as per N.J.A.C. 7:9-6 (July 22, 2010)

U.S. Environmental Protection Agency Maximum Contaminant Level (2012)

LF = Low-flow sampling method used to collect sample

ER - Estimated result

J - Estimated concentration exceeds the MDL and is less than the RL

NA - Not analyzed NR - Not reported

ND - Not detected

NLE - No limit established

a/ Elevated sample detection limit due to difficult sample matrix.

Table 2
Historical Groundwater Analytical Results
Site FTMM-64 Building 812 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

				812MW05							812MW06									
Round No.	**NJDEP GWQS**	**USEPA MCL**	**Weston 1995 Background (Main)**	39	LF1	LF2					31	32	33	34	35	36	37	38	39	LF1
Date Collected				1/14/2010	5/13/2010	8/3/2010	11/5/2010	2/15/2011	4/14/2011	7/8/2011	2/20/2008	4/9/2008	7/25/2008	10/22/2008	2/6/2009	4/28/2009	8/10/2009	10/9/2009	1/14/2010	5/11/2010
ANALYTE/Lab ID				10018.07	10191.06	10326.06	10474.05	11053.07	11148.08	11287.08	80051.08	80120.08	80256.08	80383.08	90039.08	90171.08	90336.08	90412.08	10018.08	10186.04
Volatile Organic Compounds (µg/L)																				
Benzene	1	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert -Butyl alcohol	100	NLE	--	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane				2.44	2.01	ND	ND	4.58	3.81	15.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis -1,2-Dichloroethene	70	70	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans -1,2-Dichloroethene	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NLE	NLE	--	ND	ND	ND	ND	0.67	ND	0.54 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	700	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	NLE	--	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl *tert* -butyl ether	70	NLE	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.75
Tetrachloroethene	1		--	ND	ND	ND	ND	ND	ND	0.34 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane				1.11	1.53	ND	ND	2.41	1.33	5.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	600	1000	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (Total)	1000	10,000	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TICs*	500	NLE	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals (µg/L)																				
Aluminum	200	NLE	121000	NA	5370	5590	4250	2690	3740	3810	NA	NA	NA	NA	NA	NA	NA	NA	NA	2590
Antimony	6	6	20.70	NA	6.29 ER	8.09 ER	ND	<6.0	<6.0	<6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Arsenic	3	10	89.30	NA	ND	ND	ND	<3.0	<3.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Barium	6000	2000	699.00	NA	287	322	239	<200	227	217	NA	NA	NA	NA	NA	NA	NA	NA	NA	97.0
Beryllium	1	4	2.10	NA	1.10	1.56	1.46	<1.0	1.0	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.481 ER
Cadmium	4	5	9.50	NA	ND	ND	ND	<3.0	<3.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Calcium	NLE	NLE	45400.00	NA	39900	46100	36400	24000	32500	30500	NA	NA	NA	NA	NA	NA	NA	NA	NA	29000
Chromium	70	100	191.00	NA	ND	ND	ND	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Cobalt	NLE	NLE	18.30	NA	18.7	22.0	16.5	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.2
Copper	1300	1300	65.60	NA	8.54	4.50 ER	1.91 ER	11.2	<10	16.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Iron	300	NLE	431000	NA	ND	620	728	927	1250	1930	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Lead	5	15	22.70	NA	ND	ND	2.24 ER	<3.0	<3.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Magnesium	NLE	NLE	62700	NA	30800	32400	22000	11300	18400	18200	NA	NA	NA	NA	NA	NA	NA	NA	NA	19100
Manganese	50	NLE	331	NA	255	432	330	220	419	425	NA	NA	NA	NA	NA	NA	NA	NA	NA	182
Mercury	2	2	0.26	NA	0.170 ER	ND	ND	<0.20	<0.20	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.150 ER
Nickel	100	NLE	187	NA	31.9	32.4	24.8	13.9	19.7	23.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	17.6
Potassium	NLE	NLE	137000	NA	5120	5490	12900	<10000	<10000	<10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	6280
Selenium	40	50	29.60	NA	NR	56.0	ND	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NR
Silver	40	NLE	ND	NA	ND	ND	ND	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Sodium	50000	NLE	21500	NA	401000	374000	349000	348000	348000	339000	NA	NA	NA	NA	NA	NA	NA	NA	NA	108000
Thallium	2	2	5.50	NA	ND	ND	ND	<2.0	<2.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Vanadium	60	NLE	108	NA	0.887 ER	ND	0.817 ER	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Zinc	2000	NLE	233	NA	129	135	99.8	82.3	98.7	102	NA	NA	NA	NA	NA	NA	NA	NA	NA	63.7

Notes:

Shaded cells = concentrations exceed the NJDEP GWQS

*TICs - Tentatively identified compounds, cannot exceed 500 µg/L for total VOCs and SVOCs. No individual compound can exceed 100 µg/L.

NJDEP Ground Water Quality Criteria as per N.J.A.C. 7:9-6 (July 22, 2010)

U.S. Environmental Protection Agency Maximum Contaminant Level (2012)

LF = Low-flow sampling method used to collect sample

ER - Estimated result

J - Estimated concentration exceeds the MDL and is less than the RL

NA - Not analyzed NR - Not reported

ND - Not detected

NLE - No limit established

a/ Elevated sample detection limit due to difficult sample matrix.

Table 2
Historical Groundwater Analytical Results
Site FTMM-64 Building 812 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

				812MW06								812MW07									
Round No.	**NJDEP GWQS**	**USEPA MCL**	**Weston 1995 Background (Main)**	LF1 Dup	LF2			Dup			Dup	31	32	33	34	35	36	37	38	39	LF1
Date Collected				5/11/2010	7/28/2010	11/3/2010	2/15/2011	2/15/2011	4/14/2011	7/8/2011	7/8/2011	2/20/2008	4/9/2008	7/25/2008	10/22/2008	2/6/2009	4/28/2009	8/10/2009	10/9/2009	1/14/2010	5/11/2010
ANALYTE/Lab ID				10186.03	10323.07	10471.06	11053.04	11053.03	11148.06	11287.04	11287.03	80051.09	80120.09	80256.09	80383.09	90039.09	90171.09	90336.09	90412.09	10018.09	10186.07
Volatile Organic Compounds (µg/L)																					
Benzene	1	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert -Butyl alcohol	100	NLE	--	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	1.16 J	12.02	5.0	0.41 J	1.39 J	0.96	0.77	ND	ND
1,1-Dichloroethene				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis -1,2-Dichloroethene	70	70	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans -1,2-Dichloroethene	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NLE	NLE	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.58	1.89 J	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	700	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	NLE	--	NA	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl *tert* -butyl ether	70	NLE	--	0.73	0.56	0.34 J	0.34 J	0.33 J	0.21 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1		--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	600	1000	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (Total)	1000	10,000	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TICs*	500	NLE	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals (µg/L)																					
Aluminum	200	NLE	121000	2620	2140	2670	2620	2590	2920	2120	2160	NA	NA	NA	NA	NA	NA	NA	NA	NA	2720
Antimony	6	6	20.70	7.91 ER	7.00 ER	ND	<6.0	<6.0	<6.0	<6.0	<6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.97 ER
Arsenic	3	10	89.30	ND	ND	1.08 ER	<3.0	<3.0	<3.0	<3.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.61 ER
Barium	6000	2000	699.00	96.5	102	122	<200	<200	<200	<200	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	154
Beryllium	1	4	2.10	0.462 ER	0.500	0.890	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.483 ER
Cadmium	4	5	9.50	ND	ND	0.652 ER	<3.0	<3.0	<3.0	<3.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Calcium	NLE	NLE	45400.00	28500	26500	27600	30800	30200	25700	29900	27300	NA	NA	NA	NA	NA	NA	NA	NA	NA	23600
Chromium	70	100	191.00	ND	ND	0.861 ER	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Cobalt	NLE	NLE	18.30	11.3	10.8	12.3	<50	<50	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.3
Copper	1300	1300	65.60	ND	2.00 ER	ND	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Iron	300	NLE	431000	ND	ND	84.9	<100	<100	1320	838	1400	NA	NA	NA	NA	NA	NA	NA	NA	NA	4280
Lead	5	15	22.70	ND	ND	ND	<3.0	<3.0	<3.0	<3.0	4.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Magnesium	NLE	NLE	62700	19100	18600	20400	18700	18400	15600	17000	15500	NA	NA	NA	NA	NA	NA	NA	NA	NA	27900
Manganese	50	NLE	331	179	169	175	202	195	188	239	218	NA	NA	NA	NA	NA	NA	NA	NA	NA	453
Mercury	2	2	0.26	0.180 ER	ND	ND	<0.20	<0.20	<0.20	<0.20	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.160 ER
Nickel	100	NLE	187	17.8	17.0	19.9	21.3	20.8	19.4	17.9	18.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	38.4
Potassium	NLE	NLE	137000	6100	6670	6460	<10000	<10000	<10000	<10000	<10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	6020
Selenium	40	50	29.60	NR	31.0	ND	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NR
Silver	40	NLE	ND	ND	ND	ND	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Sodium	50000	NLE	21500	106000	114000	122000	126000	123000	115000	130000	119000	NA	NA	NA	NA	NA	NA	NA	NA	NA	157000
Thallium	2	2	5.50	ND	ND	ND	<2.0	<2.0	<2.0	<2.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Vanadium	60	NLE	108	ND	ND	ND	<50	<50	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Zinc	2000	NLE	233	63.2	62.0	71.8	70.4	70.0	66.2	65.1	94.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	77.2

Notes:

Shaded cells = concentrations exceed the NJDEP GWQS

*TICs - Tentatively identified compounds, cannot exceed 500 µg/L for total VOCs and SVOCs. No individual compound can exceed 100 µg/L.

NJDEP Ground Water Quality Criteria as per N.J.A.C. 7:9-6 (July 22, 2010)

U.S. Environmental Protection Agency Maximum Contaminant Level (2012)

LF = Low-flow sampling method used to collect sample

ER - Estimated result

J - Estimated concentration exceeds the MDL and is less than the RL

NA - Not analyzed NR - Not reported

ND - Not detected

NLE - No limit established

a/ Elevated sample detection limit due to difficult sample matrix.

Table 2
Historical Groundwater Analytical Results
Site FTMM-64 Building 812 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

				812MW07						812MW08													
Round No.	**NJDEP GWQS**	**USEPA MCL**	**Weston 1995 Background (Main)**	LF2		Dup				31	31 Dup	32	33	34	35	35 Dup	36	36 Dup	37	37 Dup	38	38 Dup	39
Date Collected				8/3/2010	11/5/2010	11/5/2010	2/15/2011	4/14/2011	7/8/2011	2/20/2008	2/20/2008	4/9/2008	7/25/2008	10/22/2008	2/6/2009	2/6/2009	4/28/2009	4/28/2009	8/10/2009	8/10/2009	10/9/2009	10/9/2009	1/14/2010
ANALYTE/Lab ID				10326.05	10474.04	10474.03	11053.06	11148.07	11287.07	80051.10	80051.03	80120.10	80256.10	80383.10	90039.10	90039.03	90171.10	90171.03	90336.10	90336.03	90412.10	90412.03	10018.10
Volatile Organic Compounds (µg/L)																							
Benzene	1	5	--	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert -Butyl alcohol	100	NLE	--	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane				ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene				ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis -1,2-Dichloroethene	70	70	--	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans -1,2-Dichloroethene	100			ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NLE	NLE	--	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	700	--	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	NLE	--	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl *tert* -butyl ether	70	NLE	--	ND	ND	ND	ND	ND	ND	ND	NA	0.42 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1		--	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane				ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1	5	--	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	600	1000	--	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1			ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (Total)	1000	10,000	--	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TICs*	500	NLE	--	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals (µg/L)																							
Aluminum	200	NLE	121000	3980	3570	3460	8790	3160	4060	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	6	6	20.70	7.94 ER	ND	ND	<6.0	<6.0	<6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	3	10	89.30	1.12 ER	0.930 ER	0.690 ER	<3.0	<3.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	6000	2000	699.00	174	182	184	462	<200	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	1	4	2.10	0.702	0.800	0.799	1.3	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	4	5	9.50	1.09 ER	5.09	4.55	<3.0	<3.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	45400.00	23200	20200	19500	21100	11000	20900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	70	100	191.00	ND	ND	ND	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NLE	NLE	18.30	17.0	61.8	59.1	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1300	1300	65.60	1.58 ER	2.07 ER	1.66 ER	13.1	<10	24.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NLE	431000	1650	2360	2030	10900	19300	32800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	5	15	22.70	4.22 ER	3.33 ER	5.37	3.8	<3.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	62700	42900	28600	28000	26900	13000	23000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NLE	331	771	376	359	374	324	530	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2	2	0.26	ND	ND	ND	<0.20	<0.20	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NLE	187	59.1	65.0	61.9	56.4	14.7	21.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	137000	5860	8330	7280	<10000	<10000	<10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	40	50	29.60	35.9	ND	ND	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	40	NLE	ND	ND	ND	ND	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	50000	NLE	21500	189000	185000	181000	175000	158000	263000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	2	2	5.50	ND	ND	0.900 ER	<2.0	<2.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	60	NLE	108	ND	0.520 ER	0.871 ER	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000	NLE	233	144	547	542	708	111	186	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cells = concentrations exceed the NJDEP GWQS

*TICs - Tentatively identified compounds, cannot exceed 500 µg/L for total VOCs and SVOCs. No individual compound can exceed 100 µg/L.

NJDEP Ground Water Quality Criteria as per N.J.A.C. 7:9-6 (July 22, 2010)

U.S. Environmental Protection Agency Maximum Contaminant Level (2012)

LF = Low-flow sampling method used to collect sample

ER - Estimated result

J - Estimated concentration exceeds the MDL and is less than the RL

NA - Not analyzed NR - Not reported

ND - Not detected

NLE - No limit established

a/ Elevated sample detection limit due to difficult sample matrix.

Table 2
Historical Groundwater Analytical Results
Site FTMM-64 Building 812 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

				812MW08							812MW14											
Round No.	**NJDEP GWQS**	**USEPA MCL**	**Weston 1995 Background (Main)**	39 Dup	LF1	LF2					31	32	33	33 Dup	34	35	36	37	38	39	LF1	LF2
Date Collected				1/14/2010	5/11/2010	7/28/2010	11/3/2010	2/14/2011	4/13/2011	7/8/2011	2/20/2008	4/9/2008	7/25/2008	7/25/2008	10/22/2008	2/6/2009	4/28/2009	8/10/2009	10/9/2009	1/14/2010	5/11/2010	8/3/2010
ANALYTE/Lab ID				10018.03	10186.05	10323.06	10471.07	11051.03	11145.05	11287.05	80051.11	80120.11	80256.11	80256.03	80383.11	90039.11	90171.11	90336.11	90412.11	10018.11	10186.06	10326.04
Volatile Organic Compounds (µg/L)																						
Benzene	1	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
tert -Butyl alcohol	100	NLE	--	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis -1,2-Dichloroethene	70	70	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans -1,2-Dichloroethene	100			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NLE	NLE	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	700	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	NLE	--	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl *tert* -butyl ether	70	NLE	--	ND	ND	ND	0.38 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1		--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1	5	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	600	1000	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (Total)	1000	10,000	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TICs*	500	NLE	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals (µg/L)																						
Aluminum	200	NLE	121000	NA	4910	4400	3950	5610	4180	3760	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.4 ER	135
Antimony	6	6	20.70	NA	12.3	8.69 ER	ND	<6.0	<6.0	<6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	9.83 ER
Arsenic	3	10	89.30	NA	1.10 ER	0.630 ER	0.870 ER	<3.0	<3.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	0.650 ER
Barium	6000	2000	699.00	NA	90.6	108	102	<200	<200	<200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27.5	44.2
Beryllium	1	4	2.10	NA	1.34	1.59	1.54	1.3	1.2	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Cadmium	4	5	9.50	NA	54.0	3.09	12.5	17.1	10.6	5.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.7	1.22 ER
Calcium	NLE	NLE	45400.00	NA	53500	43400	32000	44500	42300	35200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25700	33400
Chromium	70	100	191.00	NA	ND	ND	ND	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Cobalt	NLE	NLE	18.30	NA	13.7	12.9	12.8	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Copper	1300	1300	65.60	NA	3.22 ER	3.89 ER	1.90 ER	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	1.55 ER
Iron	300	NLE	431000	NA	320 ER	325 ER	124	453	1350	1160	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	216 ER
Lead	5	15	22.70	NA	2.48 ER	3.41 ER	2.20 ER	<3.0	<3.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Magnesium	NLE	NLE	62700	NA	21000	19700	17300	23800	19900	17700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7040	11100
Manganese	50	NLE	331	NA	290	235	192	302	348	293	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.7	74.1
Mercury	2	2	0.26	NA	0.210 ER	ND	ND	<0.20	<0.20	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.210 ER	ND
Nickel	100	NLE	187	NA	15.5	16.1	18.5	19.7	15.3	22.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.32 ER	0.928 ER
Potassium	NLE	NLE	137000	NA	4840	5300	5300	<10000	<10000	<10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4320	4350
Selenium	40	50	29.60	NA	NR	55.2	ND	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NR	47.3
Silver	40	NLE	ND	NA	ND	ND	ND	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Sodium	50000	NLE	21500	NA	239000	226000	160000	236000	249000	233000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	223000	257000
Thallium	2	2	5.50	NA	ND	ND	ND	<2.0	<2.0	<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Vanadium	60	NLE	108	NA	ND	ND	ND	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.77 ER	3.32 ER
Zinc	2000	NLE	233	NA	104	100	103	116	96.2	88.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.31 ER	2.31 ER

Notes:

Shaded cells = concentrations exceed the NJDEP GWQS

*TICs - Tentatively identified compounds, cannot exceed 500 µg/L for total VOCs and SVOCs. No individual compound can exceed 100 µg/L.

NJDEP Ground Water Quality Criteria as per N.J.A.C. 7:9-6 (July 22, 2010)

U.S. Environmental Protection Agency Maximum Contaminant Level (2012)

LF = Low-flow sampling method used to collect sample

ER - Estimated result

J - Estimated concentration exceeds the MDL and is less than the RL

NA - Not analyzed NR - Not reported

ND - Not detected

NLE - No limit established

a/ Elevated sample detection limit due to difficult sample matrix.

Table 2
Historical Groundwater Analytical Results
Site FTMM-64 Building 812 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

				812MW14					
Round No.	**NJDEP GWQS**	**USEPA MCL**	**Weston 1995 Background (Main)**	LF2 Dup				Dup	
Date Collected				8/3/2010	11/3/2010	2/15/2011	4/13/2011	4/13/2011	7/8/2011
ANALYTE/Lab ID				10326.03	10471.08	11053.05	11145.04	11145.03	11287.06
Volatile Organic Compounds (µg/L)									
Benzene	1	5	--	ND	ND	ND	ND	ND	ND
tert -Butyl alcohol	100	NLE	--	ND	ND	ND	ND	ND	NA
1,1-Dichloroethane				ND	ND	ND	ND	ND	ND
1,1-Dichloroethene				ND	ND	ND	ND	ND	ND
cis -1,2-Dichloroethene	70	70	--	ND	ND	ND	ND	ND	ND
trans -1,2-Dichloroethene	100			ND	ND	ND	ND	ND	ND
Chloroethane	NLE	NLE	--	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	700	--	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	NLE	--	NA	NA	NA	NA	NA	ND
Methyl *tert* -butyl ether	70	NLE	--	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1		--	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane				ND	ND	ND	ND	ND	ND
Trichloroethene	1	5	--	ND	ND	ND	ND	ND	ND
Toluene	600	1000	--	ND	ND	ND	ND	ND	ND
Vinyl chloride	1			ND	ND	ND	ND	ND	ND
Xylenes (Total)	1000	10,000	--	ND	ND	ND	ND	ND	ND
TICs*	500	NLE	--	ND	ND	ND	ND	ND	ND
Metals (µg/L)									
Aluminum	200	NLE	121000	284	1030	293	4790	5990	2770
Antimony	6	6	20.70	9.31 ER	5.21 ER	<6.0	<6.0	<6.0	<6.0
Arsenic	3	10	89.30	0.650 ER	2.16 ER	<3.0	3.8	5.0	3.3
Barium	6000	2000	699.00	45.7	31.3	<200	<200	<200	<200
Beryllium	1	4	2.10	ND	ND	<1.0	<1.0	<1.0	<1.0
Cadmium	4	5	9.50	1.15 ER	ND	<3.0	<3.0	<3.0	<3.0
Calcium	NLE	NLE	45400.00	35700	27300	50400	34900	35800	37200
Chromium	70	100	191.00	ND	5.34	<10	24.4	29.7	16.2
Cobalt	NLE	NLE	18.30	ND	ND	<50	<50	<50	<50
Copper	1300	1300	65.60	1.76 ER	ND	<10	<10	<10	<10
Iron	300	NLE	431000	450 ER	2000	553	11000	13700	6580
Lead	5	15	22.70	ND	ND	<3.0	3.8	4.4	<3.0
Magnesium	NLE	NLE	62700	11300	8530	8290	10100	10600	14300
Manganese	50	NLE	331	92.3	46.7	<15	353	466	318
Mercury	2	2	0.26	ND	ND	<0.20	<0.20	<0.20	<0.20
Nickel	100	NLE	187	1.00 ER	ND	<10	<10	<10	<10
Potassium	NLE	NLE	137000	4710	3670	<10000	<10000	<10000	<10000
Selenium	40	50	29.60	44.3	ND	<10	<10	<10	<10
Silver	40	NLE	ND	ND	ND	<10	<10	<10	<10
Sodium	50000	NLE	21500	263000	189000	309000	235000	241000	237000
Thallium	2	2	5.50	ND	ND	<2.0	<2.0	<2.0	<2.0
Vanadium	60	NLE	108	4.10 ER	5.09	<50	<50	<50	<50
Zinc	2000	NLE	233	3.09 ER	2.61 ER	<20	24.3	27.7	22.4

Notes:

Shaded cells = concentrations exceed the NJDEP GWQS

*TICs - Tentatively identified compounds, cannot exceed 500 µg/L for total VOCs and SVOCs. No individual compound can exceed 100 µg/L.

NJDEP Ground Water Quality Criteria as per N.J.A.C. 7:9-6 (July 22, 2010)

U.S. Environmental Protection Agency Maximum Contaminant Level (2012)

LF = Low-flow sampling method used to collect sample

ER - Estimated result

J - Estimated concentration exceeds the MDL and is less than the RL

NA - Not analyzed NR - Not reported

ND - Not detected

NLE - No limit established

a/ Elevated sample detection limit due to difficult sample matrix.

Table 3
Groundwater Sampling Results - 2013, 2014, 2015, and 2016
Site FTMM-64 Building 812 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	812MW01	812MW02	812MW04			
Sample ID		FTMM-64-GW-812MW01	FTMM-64-GW-812MW02	FTMM-64-GW-812MW04	FTMM-64-GW-812MW04-5.53_2014-Q4	FTMM-64-GW-812MW04-4.7_4Q2015	FTMM-64-GW-812MW04-5
Sample Date		8/16/2013	8/15/2013	8/16/2013	10/2/2014	11/25/2015	10/20/2016
Sample Round		1	1	1			
Filtered		Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)							
1,1,1,2-Tetrachloroethane	1	< 1	< 1	< 1	< 1	< 1	< 0.33
1,1,1-Trichloroethane	30	< 1	< 1	< 1	< 1	< 1	< 0.33
1,1,2,2-Tetrachloroethane	1	< 1	< 1	< 1	< 1	< 1	< 0.33
1,1,2-Trichloroethane	3	< 1	< 1	< 1	< 1	< 1	< 0.33
1,1-Dichloroethane	50	< 1	< 1	< 1	< 1	< 1	< 0.33
1,1-Dichloroethene	1	< 1	< 1	< 1	< 1	< 1	< 0.33
1,1-Dichloropropene	100	< 1	< 1	< 1	< 1	< 1	< 0.33
1,2,3-Trichlorobenzene	100	< 1	< 1	< 1	< 1	< 1	< 0.33
1,2,3-Trichloropropane	0.03	< 1	< 1	< 1	< 1	< 1	< 1.6
1,2,4-Trichlorobenzene	9	< 1	< 1	< 1	< 1	< 1	< 0.33
1,2,4-Trimethylbenzene	100	< 1	< 1	< 1	**0.52 J**	< 1	< 0.33
1,2-Dibromo-3-chloropropane	0.02	< 1	< 1	< 1	< 1	< 1	< 1.6
1,2-Dibromoethane	0.03	< 1	< 1	< 1	< 1	< 1	< 0.33
1,2-Dichlorobenzene	600	< 1	< 1	< 1	< 1	< 1	< 0.33
1,2-Dichloroethane	2	< 1	< 1	< 1	< 1	< 1	< 0.33
1,2-Dichloropropane	1	< 1	< 1	< 1	< 1	< 1	< 0.33
1,3,5-Trimethylbenzene	100	< 1	< 1	< 1	< 1	< 1	< 0.33
1,3-Dichlorobenzene	600	< 1	< 1	< 1	< 1	< 1	< 0.33
1,3-Dichloropropane	100	< 1	< 1	< 1	< 1	< 1	< 0.33
1,4-Dichlorobenzene	75	< 1	< 1	< 1	< 1	< 1	< 0.33
2,2-Dichloropropane	100	< 1	< 1	< 1	< 1	< 1	< 0.33
2-Chlorotoluene	100	< 1	< 1	< 1	< 1	< 1	< 0.33
Acetone	6,000	< 5	< 5	< 5	**3.2 J**	**2.2 B**	< 1.6
Benzene	1	< 1	< 1	< 1	**0.32 J**	< 1	< 0.33
Bromobenzene	100	< 1	< 1	< 1	< 1	< 1	< 0.2
Bromochloromethane	100	< 1	< 1	< 1	< 1	< 1	< 0.33
Bromodichloromethane	1	< 1	< 1	< 1	< 1	< 1	< 0.33
Bromoform	4	< 1	< 1	< 1	< 1	< 1	< 0.33
Carbon tetrachloride	1	< 1	< 1	< 1	< 1	< 1	< 0.33
Chlorobenzene	50	< 1	< 1	< 1	< 1	< 1	< 0.33
Chlorodibromomethane	1	< 1	< 1	< 1	< 1	< 1	< 0.33
Chloroethane	5	< 1	< 1	< 1	**0.93 J**	< 1	< 0.33
Chloroform	70	< 1	< 1	< 1	< 1	< 1	< 0.33
Cis-1,2-Dichloroethene	70	< 1	< 1	< 1	**0.77 J**	< 1	< 0.33
Cis-1,3-Dichloropropene	1	< 1	< 1	< 1	< 1	< 1	< 0.33
Cymene	100	< 1	< 1	< 1	< 1	< 1	< 0.33
Dichlorodifluoromethane	1,000	< 1	< 1	< 1	< 1	< 1	< 0.33
Ethyl benzene	700	< 1	< 1	< 1	**1.4 J**	< 1	< 0.33
Hexachlorobutadiene	1	< 1	< 1	< 1	< 1	< 1	< 0.43
Isopropylbenzene	700	< 1	< 1	< 1	**0.48 J**	< 1	< 0.33
Meta/Para Xylene	1,000	< 2	< 2	< 2	**1.1 J**	< 2	< 0.66
Methyl bromide	10	< 1	< 1	< 1	< 1	< 1	< 0.33
Methyl butyl ketone	300	< 5	< 5	< 5	< 5	< 5	< 1.6
Methyl chloride	100	< 1	< 1	< 1	< 1	< 1	< 0.33
Methyl ethyl ketone	300	< 1	< 1	< 1	< 1	< 1	< 1.6
Methyl isobutyl ketone	100	< 1	< 1	< 1	< 1	< 1	< 1.6
Methyl Tertbutyl Ether	70	< 1	< 1	< 1	< 1	< 1	< 0.33
Methylene chloride	3	< 1	< 1	< 1	< 1	< 1	< 0.33
Naphthalene	300	< 1	< 1	< 1	**0.38 B**	< 1	< 0.33

Table 3
Groundwater Sampling Results - 2013, 2014, 2015, and 2016
Site FTMM-64 Building 812 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	812MW01	812MW02	812MW04			
Sample ID		FTMM-64-GW-812MW01	FTMM-64-GW-812MW02	FTMM-64-GW-812MW04	FTMM-64-GW-812MW04-5.53_2014-Q4	FTMM-64-GW-812MW04-4.7_4Q2015	FTMM-64-GW-812MW04-5
Sample Date		8/16/2013	8/15/2013	8/16/2013	10/2/2014	11/25/2015	10/20/2016
Sample Round		1	1	1			
Filtered		Total	Total	Total	Total	Total	Total
n-Butylbenzene	100	< 1	< 1	< 1	**0.23 J**	< 1	< 0.33
Ortho Xylene	1,000	< 1	< 1	< 1	**0.59 J**	< 1	< 0.33
p-Chlorotoluene	100	< 1	< 1	< 1	< 1	< 1	< 0.33
Propylbenzene	100	< 1	< 1	< 1	**0.65 J**	< 1	< 0.33
sec-Butylbenzene	100	< 1	< 1	< 1	< 1	< 1	< 0.33
Styrene	100	< 1	< 1	< 1	< 1	< 1	< 0.33
Tert Butyl Alcohol	100	NA	NA	NA	< 20	< 20	< 8.3
tert-Butylbenzene	100	< 1	< 1	< 1	**0.23 J**	< 1	< 0.33
Tetrachloroethene	1	< 1	< 1	< 1	< 1	< 1	< 0.33
Toluene	600	< 1	< 1	< 1	**0.37 J**	< 1	< 0.33
Total Xylenes	1,000	< 3	< 3	< 3	NA	NA	< 1
Trans-1,2-Dichloroethene	100	< 1	< 1	< 1	< 1	< 1	< 0.33
Trans-1,3-Dichloropropene	1	< 1	< 1	< 1	< 1	< 1	< 0.33
Trichloroethene	1	< 1	< 1	< 1	< 1	< 1	< 0.33
Trichlorofluoromethane	2,000	< 1	< 1	< 1	< 1	< 1	< 0.33
Vinyl chloride	1	< 1	< 1	< 1	**7.8**	< 1	< 0.33
TIC VOCs (µg/l)							
Total TIC, Volatile	500	ND	ND	ND	NA	NA	NA
Inorganics (µg/l)							
Lead	5	< 2	< 2	**7.5**	NA	NA	NA

Table 3
Groundwater Sampling Results - 2013, 2014, 2015, and 2016
Site FTMM-64 Building 812 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	812MW04	812MW05	812MW06	812MW07	812MW08	812MW14
Sample ID		FTMM-64-GW-812MW104-5	FTMM-64-GW-812MW05	FTMM-64-GW-812MW06	FTMM-64-GW-812MW07	FTMM-64-GW-812MW08	FTMM-64-GW-812MW14
Sample Date		10/20/2016	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013
Sample Round			1	1	1	1	1
Filtered		Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)							
1,1,1,2-Tetrachloroethane	1	< 0.33	< 1	< 1	< 1	< 10	< 1
1,1,1-Trichloroethane	30	< 0.33	< 1	< 1	< 1	< 10	< 1
1,1,2,2-Tetrachloroethane	1	< 0.33	< 1	< 1	< 1	< 10	< 1
1,1,2-Trichloroethane	3	< 0.33	< 1	< 1	< 1	< 10	< 1
1,1-Dichloroethane	50	< 0.33	< 1	< 1	< 1	< 10	< 1
1,1-Dichloroethene	1	< 0.33	< 1	< 1	< 1	< 10	< 1
1,1-Dichloropropene	100	< 0.33	< 1	< 1	< 1	< 10	< 1
1,2,3-Trichlorobenzene	100	< 0.33	< 1	< 1	< 1	< 10	< 1
1,2,3-Trichloropropane	0.03	< 1.6	< 1	< 1	< 1	< 10	< 1
1,2,4-Trichlorobenzene	9	< 0.33	< 1	< 1	< 1	< 10	< 1
1,2,4-Trimethylbenzene	100	< 0.33	< 1	< 1	< 1	< 10	< 1
1,2-Dibromo-3-chloropropane	0.02	< 1.6	< 1	< 1	< 1	< 10	< 1
1,2-Dibromoethane	0.03	< 0.33	< 1	< 1	< 1	< 10	< 1
1,2-Dichlorobenzene	600	< 0.33	< 1	< 1	< 1	< 10	< 1
1,2-Dichloroethane	2	< 0.33	< 1	< 1	< 1	< 10	< 1
1,2-Dichloropropane	1	< 0.33	< 1	< 1	< 1	< 10	< 1
1,3,5-Trimethylbenzene	100	< 0.33	< 1	< 1	< 1	< 10	< 1
1,3-Dichlorobenzene	600	< 0.33	< 1	< 1	< 1	< 10	< 1
1,3-Dichloropropane	100	< 0.33	< 1	< 1	< 1	< 10	< 1
1,4-Dichlorobenzene	75	< 0.33	< 1	< 1	< 1	< 10	< 1
2,2-Dichloropropane	100	< 0.33	< 1	< 1	< 1	< 10	< 1
2-Chlorotoluene	100	< 0.33	< 1	< 1	< 1	< 10	< 1
Acetone	6,000	< 1.6	< 5	**1.4** J	**1.4** J	< 50	< 5
Benzene	1	< 0.33	< 1	< 1	< 1	< 10	< 1
Bromobenzene	100	< 0.2	< 1	< 1	< 1	< 10	< 1
Bromochloromethane	100	< 0.33	< 1	< 1	< 1	< 10	< 1
Bromodichloromethane	1	< 0.33	< 1	< 1	< 1	< 10	< 1
Bromoform	4	< 0.33	< 1	< 1	< 1	< 10	< 1
Carbon tetrachloride	1	< 0.33	< 1	< 1	< 1	< 10	< 1
Chlorobenzene	50	< 0.33	< 1	< 1	< 1	< 10	< 1
Chlorodibromomethane	1	< 0.33	< 1	< 1	< 1	< 10	< 1
Chloroethane	5	< 0.33	< 1	< 1	< 1	< 10	< 1
Chloroform	70	< 0.33	< 1	< 1	< 1	< 10	< 1
Cis-1,2-Dichloroethene	70	< 0.33	< 1	< 1	< 1	< 10	< 1
Cis-1,3-Dichloropropene	1	< 0.33	< 1	< 1	< 1	< 10	< 1
Cymene	100	< 0.33	< 1	< 1	< 1	< 10	< 1
Dichlorodifluoromethane	1,000	< 0.33	< 1	< 1	< 1	< 10	< 1
Ethyl benzene	700	< 0.33	< 1	< 1	< 1	< 10	< 1
Hexachlorobutadiene	1	< 0.43	< 1	< 1	< 1	< 10	< 1
Isopropylbenzene	700	< 0.33	< 1	< 1	< 1	< 10	< 1
Meta/Para Xylene	1,000	< 0.66	< 2	< 2	< 2	< 20	< 2
Methyl bromide	10	< 0.33	< 1	< 1	< 1	< 10	< 1
Methyl butyl ketone	300	< 1.6	< 5	< 5	< 5	< 50	< 5
Methyl chloride	100	< 0.33	< 1	< 1	< 1	< 10	< 1
Methyl ethyl ketone	300	< 1.6	< 1	< 1	< 1	< 10	< 1
Methyl isobutyl ketone	100	< 1.6	< 1	< 1	< 1	< 10	< 1
Methyl Tertbutyl Ether	70	< 0.33	< 1	< 1	< 1	< 10	< 1
Methylene chloride	3	< 0.33	< 1	< 1	< 1	< 10	< 1
Naphthalene	300	< 0.33	< 1	< 1	< 1	< 10	< 1

Table 3
Groundwater Sampling Results - 2013, 2014, 2015, and 2016
Site FTMM-64 Building 812 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	812MW04	812MW05	812MW06	812MW07	812MW08	812MW14
Sample ID		FTMM-64-GW-812MW104-5	FTMM-64-GW-812MW05	FTMM-64-GW-812MW06	FTMM-64-GW-812MW07	FTMM-64-GW-812MW08	FTMM-64-GW-812MW14
Sample Date		10/20/2016	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013
Sample Round			1	1	1	1	1
Filtered		Total	Total	Total	Total	Total	Total
n-Butylbenzene	100	< 0.33	< 1	< 1	< 1	< 10	< 1
Ortho Xylene	1,000	< 0.33	< 1	< 1	< 1	< 10	< 1
p-Chlorotoluene	100	< 0.33	< 1	< 1	< 1	< 10	< 1
Propylbenzene	100	< 0.33	< 1	< 1	< 1	< 10	< 1
sec-Butylbenzene	100	< 0.33	< 1	< 1	< 1	< 10	< 1
Styrene	100	< 0.33	< 1	< 1	< 1	< 10	< 1
Tert Butyl Alcohol	100	< 8.3	NA	NA	NA	NA	NA
tert-Butylbenzene	100	< 0.33	< 1	< 1	< 1	< 10	< 1
Tetrachloroethene	1	< 0.33	< 1	< 1	< 1	< 10	< 1
Toluene	600	< 0.33	< 1	< 1	< 1	< 10	< 1
Total Xylenes	1,000	< 1	< 3	< 3	< 3	< 30	< 3
Trans-1,2-Dichloroethene	100	< 0.33	< 1	< 1	< 1	< 10	< 1
Trans-1,3-Dichloropropene	1	< 0.33	< 1	< 1	< 1	< 10	< 1
Trichloroethene	1	< 0.33	< 1	< 1	< 1	< 10	< 1
Trichlorofluoromethane	2,000	< 0.33	< 1	< 1	< 1	< 10	< 1
Vinyl chloride	1	**0.76 J**	< 1	< 1	< 1	< 10	< 1
TIC VOCs (µg/l)							
Total TIC, Volatile	500	NA	ND	ND	ND	ND	ND
Inorganics (µg/l)							
Lead	5	NA	**0.855** J	**2.1** J	< 2	< 2	< 2

Table 3
Groundwater Sampling Results - 2013, 2014, 2015, and 2016
Site FTMM-64 Building 812 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) Number of Analyses is the number of detected and non-detected results excluding rejected results. Sample duplicate pairs have not been averaged.

3) NLE = no limit established.

4) ND = not detected in any background sample, no background concentration available.

5) Bold chemical detection.

6) SS = Site Specific action level, see "Specific Chemical Class (or Parameter)" footnote for details.

7) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B = Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

E (or ER) = Estimated result.

J = estimated detected value due to a concentration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

8) Specific Chemical Classes (or Parameters) comments or notes regarding how data is displayed, compared to Action Levels, or represented in this table.

9) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the NJ Ground Water Quality Criteria ####

NJDEP Interim Specific GWQC values are presented for the NJ GWQS where there is not a Specific Ground Water Quality Criteria. A full list of compounds is available at (http://www.nj.gov/dep/wms/bwqsa/gwqs_interim_criteria_table.htm).

NJDEP Interim Generic GWQC values are presented for the NJ GWQS where there is not a XXXXX or a NJDEP Interim Specific GWQC. Available at (http://www.nj.gov/dep/wms/bwqsa/gwqs_interim_criteria_table.htm).

10) Criteria action level source document and web address.

- The NJ Ground Water Quality Criteria refers to the NJDEP Groundwater Quality Standards - Adopted July 22, 2010
  http://www.state.nj.us/dep/wms/bwqsa/docs/njac79C.pdf

Table 4
Review of Historical Groundwater Sampling Results
Site FTMM-64 Building 812 UST Gasoline
Annual (Fourth Quarter) 2016 Groundwater Sampling Report
Fort Monmouth, New Jersey

Site Name/ Well ID	Interpretation of Historical and 2016 Results [1]			2016 Evaluation				Retain Analyte/Well (Yes or No)	Rationale
	Chem Class / Analyte	Does it Exceed NJDEP GWQS (Yes or No) (If Yes, identify compound)	Do Metals Exceed FTMM Background Concentration (Yes or No) (If Yes, identify Metal)	Seasonal Effect?[2] (Y/N)	Anomaly? (Y/N)	Exceedance part of overall trend? (Y/N)	Well needed for sentinel purposes? (Y/N)		
FTMM-64,B812									
812MW04	VOC	No	N/A	No	No	No	No	No	Discontinue sampling as VC was below the GWQS in 2015 and 2016. NJDEP has approved NFA for groundwater in their April 28, 2017 letter.

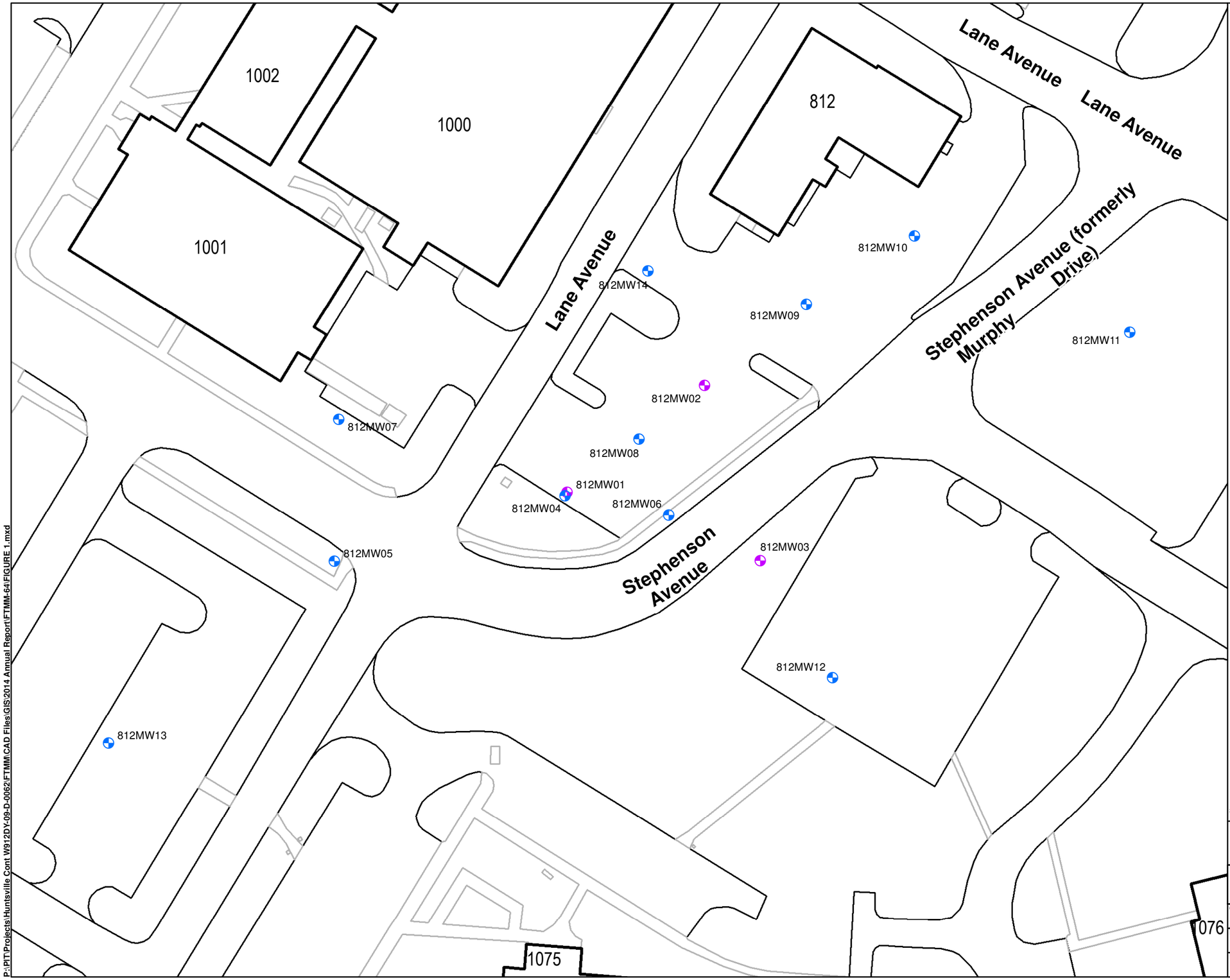
Notes

1. Has any of the analyte compounds exceeded the NJDEP GWQS in the 2016 data and the 4 previous quarterly data rounds or three previous annual rounds?
   a. If yes then keep analyte in LTM list
   b. If no then remove this analyte from LTM list
   c. a and b above may be occasionally superseded on a case-by-case basis, depending on site conditions.
2. Has any of the analyte compounds exceeded the NJDEP GWQS seasonally (winter spring vs. summer fall)?
3. VC - vinyl chloride
4. N/A - Not applicable
5. Per the 2/5/15 NJDEP approval letter of the Final 2013 Baseline Groundwater Report, groundwater monitoring wells 812MW01, 812MW02, 812MW05, 812MW06, 812MW07, 812MW08 and 812MW14, were removed from the long-term monitoring sampling program and lead was discontinued in 2014.
6. Per the 4/28/2017 NJDEP approval letter of the Request for No Further Action for groundwater at FTMM-64, groundwater monitoring well 812MW04 was removed from the long-term monitoring sampling program.

FIGURES

Figure 1 Layout of FTMM-64 Building 812 UST Gasoline

Figure 2 FTMM-64 Shallow Groundwater Contours - October 20, 2016



LEGEND:

- Deep Monitoring Well
- Shallow Monitoring Well
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line
- Surface Water Feature

N

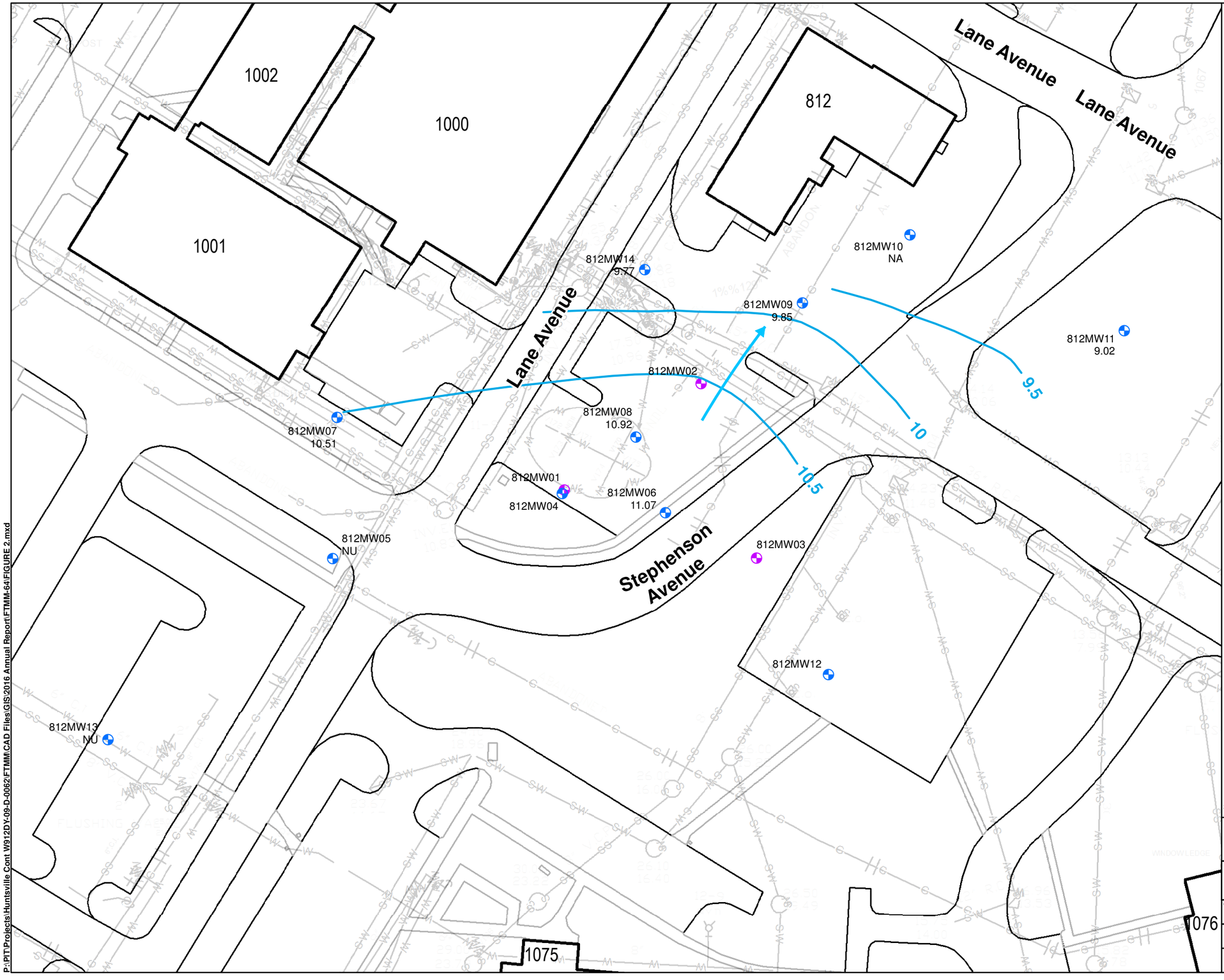
1 inch = 50 feet

0 25 50 100 Feet

Source: FTMM Supplied CAD

PARSONS 401 Diamond Drive NW, Huntsville AL	**Fort Monmouth** **New Jersey**
LAYOUT OF FTMM-64 **BUILDING 812 UST GASOLINE**	
CREATED BY: **RR**	REVIEWED BY: **ME**
DATE: **NOV. 2015**	FIGURE NUMBER: **FIGURE 1**
PROJECT NUMBER: **748810-01000**	FILE: **FIGURE 1.mxd**

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\2014 Annual Report\FTMM-64\FIGURE 1.mxd



LEGEND:

- Deep Monitoring Well
- Shallow Monitoring Well
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line
- Surface Water Feature
- Groundwater Elevation Contour
- Inferred Groundwater Flow Direction

N

1 inch = 50 feet

0 25 50 100 Feet

Source: FTMM Supplied CAD

PARSONS 401 Diamond Drive NW, Huntsville AL	**Fort Monmouth** **New Jersey**

FTMM-64 SHALLOW GROUNDWATER CONTOURS - OCTOBER 20, 2016

CREATED BY: RR	REVIEWED BY: CM
DATE: DEC. 2016	FIGURE NUMBER: FIGURE 2
PROJECT NUMBER: 748810-01000	FILE: FIGURE 2.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\2016 Annual Report\FTMM-64\FIGURE 2.mxd

ATTACHMENTS

Attachment A LFPS Field Sheets

LOW FLOW GROUND WATER SAMPLING - DATA SHEET

SHEET 1 OF 1

PROJECT SITE/LOCATION: FTMM-64
DATE: 10/20/16
WEATHER: 65°F Clear
CONSULTING FIRM: PARSONS
FIELD PERSONNEL: CW

MONITOR WELL #: 812MW04
WELL PERMIT #:
WELL DEPTH: 5.61 feet
WELL DIAMETER: 4 inches
PUMP INTAKE DEPTH: ~5 ft to TOC
SCREENED/OPEN INTERVAL: 2-7 ft to TOC

PID/FID READINGS:
BACKGROUND: 0 ppm
BENEATH OUTER CAP: 0 ppm
BENEATH INNER CAP: 0 ppm

GAUGING/PUMPING INFORMATION:
INITIAL DEPTH TO WATER (BEFORE PUMP INSTALLATION): 2.91 ft to TOC
DEPTH TO PRODUCT: — ft to TOC ; PRODUCT THICKNESS: — ft
MAKE/MODEL OF PUMP: QED Emflo pro

WATER QUALITY METER INFORMATION:
INSTRUMENT MAKE/MODEL: YSI 6920
SERIAL #: 06J1742AC
TEMP. CORRECTION VALUE: -0.44

Time	PURGING	SAMPLING	pH (units) READING	pH (units) CHANGE	SPECIFIC CONDUCTIVITY (mS/cm) READING	SPECIFIC CONDUCTIVITY (mS/cm) CHANGE	REDOX POTENTIAL (mV) READING	REDOX POTENTIAL (mV) CHANGE	DISSOLVED[1] OXYGEN (mg/L) READING	DISSOLVED[1] OXYGEN (mg/L) CHANGE	TURBIDITY (NTU) READING	TURBIDITY (NTU) CHANGE	TEMPERATURE (degrees C) READING	TEMPERATURE (degrees C) CHANGE	PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
0915	X		6.75		0.336		90.3		24.74*		131.9		20.48		250	3.21
0920	X		6.83		0.332		94.1		9.65		125.6		20.41		200	3.40
0925	X		6.93		0.326		91.7		8.14		33.4		21.77		175	3.61
0930	X		6.87		0.323		89.9		7.68		107.8		21.57		150	3.80
0935	X		6.90		0.323		87.2		6.99		52.1		20.87		150	3.89
0940	X		6.90		0.326		88.6		6.72		16.9		21.13		150	4.00
0945	X		6.88		0.329		88.2		6.60		9.8		21.29		150	4.09
0950	P		6.87		0.329		87.1		6.51		9.4		21.33		150	4.17
0955		X	6.87		0.329		86.0		6.26		8.7		21.35		150	4.29

SAMPLING INFORMATION:
Sample ID: FTMM-64-GW-812MW04-5
Sample Time: 0955
Comments:

QA/QC INFORMATION:
Duplicate Collected?: Y
MS/MSD Collected?: Y
Filtering?: —

ADDITIONAL OBSERVATIONS/COMMENTS:
Clarity: Clear
Odor: —
Other: —

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN:
pH: ± 0.1 units ; Spec. Conductivity: ± 3% ; ORP: ± 10mV ; D.O.: ± 10% ; Turbidity: ± 10% (or <1 NTU) ; Temperature: ± 3%. ; Water Level Change: < 0.3 ft

ANALYST NAME & SIGNATURE: [signature] DATE: 10/20/16
REVIEWER NAME & SIGNATURE: DATE:

APPENDIX C

DATA VALIDATION MEMORANDUM

DATA VALIDATION REPORT FOR OCTOBER 2016 GROUNDWATER SAMPLING

FORT MONMOUTH, OCEANPORT, MONMOUTH COUNTY, NEW JERSEY

BRAC 05 Facility
Contract W912DY-09-D-0062
Task Order: 0012, Project No. 369857

Submitted To:

U.S. Army Engineering and Support Center
Huntsville, Alabama

and

U.S. Army Corps of Engineers, New York District

Prepared By:

PARSONS
401 Diamond Dr. NW, Huntsville, AL 35806

Revision No. 0
October 2017

TABLE OF CONTENTS

List of Attachments i
SECTION 1 DATA USABILITY SUMMARY 1-1
1.1 Sampling and Chain-of-Custody 1-1
1.2 Laboratory Data Packages 1-1
1.3 Laboratory Analytical Methods 1-1
1.3.1 Volatile Organic Analysis 1-2
SECTION 2 DATA VALIDATION REPORT 2-1
2.1 FTMM-68 Samples 2-1
2.1.1 Volatiles + TICs 2-1
2.2 FTMM-64 Samples 2-2
2.2.1 Volatiles + TICs 2-2
2.3 FTMM-58 Samples 2-2
2.3.1 TBA 2-3

LIST OF ATTACHMENTS

Attachment A Validated Laboratory Data

SECTION 1
DATA USABILITY SUMMARY

Groundwater samples were collected from the FTMM-68, FTMM-64, and FTMM-58 sites in Oceanport, New Jersey on October 20, 2016 and October 21, 2016. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- 2013 FTMM Sampling and Analysis Plan (SAP); and
- Department of Defense (DoD) Quality Systems Manual (QSM)

The analytical laboratory for this project was ALS Environmental (ALS) in Middletown, Pennsylvania. This laboratory is certified to conduct project analyses through the New Jersey Department of Environmental Protection (NJDEP) and DoD Environmental Laboratory Approval Program (ELAP).

1.1 SAMPLING AND CHAIN-OF-CUSTODY

The samples were collected, properly preserved, shipped under a COC record, and received at ALS within one day of sampling. All samples were received intact and in good condition at the laboratory.

1.2 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 13 days for the samples.

The laboratory data packages received from ALS were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in Section 2.

1.3 LABORATORY ANALYTICAL METHODS

The groundwater samples were collected from the site and analyzed for volatile organic compounds (VOCs). Summaries of issues concerning these laboratory analyses are presented in Subsection 1.3.1. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) are discussed for each analytical method in Section 2. The laboratory data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,
"UJ" - estimated and not detected at the value given,
"J" - estimated at the value given,
"J+" - estimated biased high at the value given,
"J-" - estimated biased low at the value given,
"B" - compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank,
"N" - presumptive evidence at the value given, and
"R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

1.3.1 Volatile Organic Analysis

Groundwater samples were analyzed for VOCs + tentatively identified compounds (TICs) using the USEPA SW-846 8260C analytical method. Groundwater samples collected from FTMM-58 were analyzed for tert-butyl alcohol (TBA) only using this method. The reported results for these samples did not require qualification resulting from data validation. The reported VOC analytical results were 100% complete (i.e., usable) for the project data. PARCCS requirements were met.

SECTION 2
DATA VALIDATION REPORT

2.1 FTMM-68 SAMPLES

Data review has been completed for data packages generated by ALS containing groundwater samples collected from the FTMM-68 site. These samples were contained within sample delivery group (SDG) 2184162. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data were tabulated and are presented in Attachment A-1.

Data validation was performed for all samples in accordance with the project SAP and DoD QSM. This data validation and usability report is presented by analysis type.

2.1.1 Volatiles + TICs

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank and trip/equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of blank contamination as discussed below.

Blank Contamination

The laboratory method blank associated with sample FTMM-68-GW-MW-03-20 contained hexachlorobutadiene greater than ½ LOQ at a concentration of 1 µg/L. Validation qualification of this sample was not required since this compound was not detected in this sample.

Usability

All volatile groundwater sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The volatile

groundwater sample data presented by ALS were 100% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A-1.

2.2 FTMM-64 SAMPLES

Data review has been completed for data packages generated by ALS containing groundwater samples collected from the FTMM-64 site. These samples were contained within sample delivery group (SDG) 2184163. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data were tabulated and are presented in Attachment A-2.

Data validation was performed for all samples in accordance with the project SAP and DoD QSM. This data validation and usability report is presented by analysis type.

2.2.1 Volatiles + TICs

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols.

Usability

All volatile groundwater sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The volatile groundwater sample data presented by ALS were 100% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A-2.

2.3 FTMM-58 SAMPLES

Data review has been completed for data packages generated by ALS containing groundwater samples collected from the FTMM-58 site. These samples were contained within sample delivery

group (SDG) 2184164. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data were tabulated and are presented in Attachment A-3.

Data validation was performed for all samples in accordance with the project SAP and DoD QSM. This data validation and usability report is presented by analysis type.

2.3.1 TBA

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank and equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols.

Usability

All volatile groundwater sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The volatile groundwater sample data presented by ALS were 100% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A-3.

ATTACHMENT A
VALIDATED LABORATORY DATA

ATTACHMENT A-1
VALIDATED LABORATORY DATA FOR FTMM-68 SAMPLES

Attachment A-1
Validated Laboratory Data for FTMM-68 Samples

Area				FTMM68 Bldg. 700		FTMM68 Bldg. 700		FTMM68 Bldg. 700		FTMM68 Bldg. 700		FTMM68 Bldg. 700	
Loc ID				FTMM68-MW-01		FTMM68-MW-02		FTMM68-MW-03		FTMM68-MW-05		FTMM68-MW-05		FTMM68-MW-06		FTMM68-MW-06	
Matrix				Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water	
Sample ID				FTMM-68-GW-MW-01-37.5		FTMM-68-GW-MW-02-23		FTMM-68-GW-MW-03-20		FTMM-68-GW-MW-05-31.5		FTMM-68-GW-MW-05-36.5		FTMM-68-GW-MW-06-17.5		FTMM-68-GW-MW-06-22.5	
Sample Depth Interval (FT)				37.5-37.5		23-23		20-20		31.5-31.5		36.5-36.5		17.5-17.5		22.5-22.5	
Sample Date				10/20/2016		10/20/2016		10/20/2016		10/20/2016		10/20/2016		10/20/2016		10/20/2016	
QC Type				SA		SA		SA		SA		SA		SA		SA	
Study ID				2016-10 GW Event		2016-10 GW Event		2016-10 GW Event		2016-10 GW Event		2016-10 GW Event		2016-10 GW Event		2016-10 GW Event	
Sample Round																	
Filtered				Total		Total		Total		Total		Total		Total		Total	
Criteria		NJ Ground Water Quality Criteria															
Parameter	Unit	Action Level	Num of Detects Above Standard-1	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Volatile Organic Compounds																	
1,1,1,2-Tetrachloroethane	UG/L	1	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,1,1-Trichloroethane	UG/L	30	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,1,2,2-Tetrachloroethane	UG/L	1	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,1,2-Trichloroethane	UG/L	3	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,1-Dichloroethane	UG/L	50	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,1-Dichloroethene	UG/L	1	0	0.49	J	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,1-Dichloropropene	UG/L	100	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,2,3-Trichlorobenzene	UG/L	100	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,2,3-Trichloropropane	UG/L	0.03	0	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2,4-Trichlorobenzene	UG/L	9	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,2,4-Trimethylbenzene	UG/L	100	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,2-Dibromo-3-chloropropane	UG/L	0.02	0	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U
1,2-Dibromoethane	UG/L	0.03	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,2-Dichlorobenzene	UG/L	600	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,2-Dichloroethane	UG/L	2	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,2-Dichloropropane	UG/L	1	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,3,5-Trimethylbenzene	UG/L	100	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,3-Dichlorobenzene	UG/L	600	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,3-Dichloropropane	UG/L	100	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
1,4-Dichlorobenzene	UG/L	75	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
2,2-Dichloropropane	UG/L	100	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
2-Chlorotoluene	UG/L	100	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Acetone	UG/L	6,000	0	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U
Benzene	UG/L	1	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Bromobenzene	UG/L	100	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Bromochloromethane	UG/L	100	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Bromodichloromethane	UG/L	1	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Bromoform	UG/L	4	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Carbon tetrachloride	UG/L	1	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Chlorobenzene	UG/L	50	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Chlorodibromomethane	UG/L	1	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Chloroethane	UG/L	5	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Chloroform	UG/L	70	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	1.8		0.75	U
Cis-1,2-Dichloroethene	UG/L	70	0	0.61	J	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Cis-1,3-Dichloropropene	UG/L	1	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Cymene	UG/L	100	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Dichlorodifluoromethane	UG/L	1,000	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Ethyl benzene	UG/L	700	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Hexachlorobutadiene	UG/L	1	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Isopropylbenzene	UG/L	700	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U

Attachment A-1
Validated Laboratory Data for FTMM-68 Samples

Area				FTMM68 Bldg. 700		FTMM68 Bldg. 700		FTMM68 Bldg. 700		FTMM68 Bldg. 700		FTMM68 Bldg. 700		FTMM68 Bldg. 700	
Loc ID				FTMM68-MW-01		FTMM68-MW-02		FTMM68-MW-03		FTMM68-MW-05		FTMM68-MW-05		FTMM68-MW-06		FTMM68-MW-06	
Matrix				Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water	
Sample ID				FTMM-68-GW-MW-01-37.5		FTMM-68-GW-MW-02-23		FTMM-68-GW-MW-03-20		FTMM-68-GW-MW-05-31.5		FTMM-68-GW-MW-05-36.5		FTMM-68-GW-MW-06-17.5		FTMM-68-GW-MW-06-22.5	
Sample Depth Interval (FT)				37.5-37.5		23-23		20-20		31.5-31.5		36.5-36.5		17.5-17.5		22.5-22.5	
Sample Date				10/20/2016		10/20/2016		10/20/2016		10/20/2016		10/20/2016		10/20/2016		10/20/2016	
QC Type				SA		SA		SA		SA		SA		SA		SA	
Study ID				2016-10 GW Event		2016-10 GW Event		2016-10 GW Event		2016-10 GW Event		2016-10 GW Event		2016-10 GW Event		2016-10 GW Event	
Sample Round																	
Filtered				Total		Total		Total		Total		Total		Total		Total	
Criteria		NJ Ground Water Quality Criteria															
Parameter	Unit	Action Level	Num of Detects Above Standard-1	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Meta/Para Xylene	UG/L	1,000	0	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U
Methyl bromide	UG/L	10	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Methyl butyl ketone	UG/L	300	0	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U
Methyl chloride	UG/L	100	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Methyl ethyl ketone	UG/L	300	0	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U
Methyl isobutyl ketone	UG/L	100	0	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U
Methyl Tertbutyl Ether	UG/L	70	0	1		13.8		0.75	U	0.64	J	0.63	J	0.75	U	0.75	U
Methylene chloride	UG/L	3	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Naphthalene	UG/L	300	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
n-Butylbenzene	UG/L	100	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Ortho Xylene	UG/L	1,000	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
p-Chlorotoluene	UG/L	100	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Propylbenzene	UG/L	100	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
sec-Butylbenzene	UG/L	100	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Styrene	UG/L	100	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Tert Butyl Alcohol	UG/L	100	0	12.5	U	68.8		12.5	U	32.1		33.3		12.5	U	12.5	U
tert-Butylbenzene	UG/L	100	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Tetrachloroethene	UG/L	1	3	675		0.75	U	0.75	U	18.6		18.4		0.75	U	0.75	U
TIC Unknown	UG/L			550	J												
Toluene	UG/L	600	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Total Xylenes	UG/L	1,000	0	2.3	U	2.3	U	2.3	U	2.3	U	2.3	U	2.3	U	2.3	U
Trans-1,2-Dichloroethene	UG/L	100	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Trans-1,3-Dichloropropene	UG/L	1	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Trichloroethene	UG/L	1	1	15.9		0.75	U	0.75	U	0.65	J	0.7	J	0.75	U	0.75	U
Trichlorofluoromethane	UG/L	2,000	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U
Vinyl chloride	UG/L	1	0	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U	0.75	U

ATTACHMENT A-2
VALIDATED LABORATORY DATA FOR FTMM-64 SAMPLES

Attachment A-2
Validated Laboratory Data for FTMM-64 Samples

Loc ID	NJ Ground Water Quality Criteria	812MW04	
Sample ID		FTMM-64-GW-812MW04-5	FTMM-64-GW-812MW104-5
Sample Date		10/20/2016	10/20/2016
Sample Round			
Filtered		Total	Total
Volatile Organic Compounds (µg/l)			
1,1,1,2-Tetrachloroethane	1	< 0.75	< 0.75
1,1,1-Trichloroethane	30	< 0.75	< 0.75
1,1,2,2-Tetrachloroethane	1	< 0.75	< 0.75
1,1,2-Trichloroethane	3	< 0.75	< 0.75
1,1-Dichloroethane	50	< 0.75	< 0.75
1,1-Dichloroethene	1	< 0.75	< 0.75
1,1-Dichloropropene	100	< 0.75	< 0.75
1,2,3-Trichlorobenzene	100	< 0.75	< 0.75
1,2,3-Trichloropropane	0.03	< 2.5	< 2.5
1,2,4-Trichlorobenzene	9	< 0.75	< 0.75
1,2,4-Trimethylbenzene	100	< 0.75	< 0.75
1,2-Dibromo-3-chloropropane	0.02	< 2.5	< 2.5
1,2-Dibromoethane	0.03	< 0.75	< 0.75
1,2-Dichlorobenzene	600	< 0.75	< 0.75
1,2-Dichloroethane	2	< 0.75	< 0.75
1,2-Dichloropropane	1	< 0.75	< 0.75
1,3,5-Trimethylbenzene	100	< 0.75	< 0.75
1,3-Dichlorobenzene	600	< 0.75	< 0.75
1,3-Dichloropropane	100	< 0.75	< 0.75
1,4-Dichlorobenzene	75	< 0.75	< 0.75
2,2-Dichloropropane	100	< 0.75	< 0.75
2-Chlorotoluene	100	< 0.75	< 0.75
Acetone	6,000	< 3.8	< 3.8
Benzene	1	< 0.75	< 0.75
Bromobenzene	100	< 0.75	< 0.75
Bromochloromethane	100	< 0.75	< 0.75
Bromodichloromethane	1	< 0.75	< 0.75
Bromoform	4	< 0.75	< 0.75
Carbon tetrachloride	1	< 0.75	< 0.75
Chlorobenzene	50	< 0.75	< 0.75
Chlorodibromomethane	1	< 0.75	< 0.75
Chloroethane	5	< 0.75	< 0.75
Chloroform	70	< 0.75	< 0.75
Cis-1,2-Dichloroethene	70	< 0.75	< 0.75
Cis-1,3-Dichloropropene	1	< 0.75	< 0.75
Cymene	100	< 0.75	< 0.75
Dichlorodifluoromethane	1,000	< 0.75	< 0.75
Ethyl benzene	700	< 0.75	< 0.75
Hexachlorobutadiene	1	< 0.75	< 0.75
Isopropylbenzene	700	< 0.75	< 0.75
Meta/Para Xylene	1,000	< 1.5	< 1.5
Methyl bromide	10	< 0.75	< 0.75
Methyl butyl ketone	300	< 3.8	< 3.8
Methyl chloride	100	< 0.75	< 0.75
Methyl ethyl ketone	300	< 3.8	< 3.8
Methyl isobutyl ketone	100	< 3.8	< 3.8
Methyl Tertbutyl Ether	70	< 0.75	< 0.75
Methylene chloride	3	< 0.75	< 0.75
Naphthalene	300	< 0.75	< 0.75
n-Butylbenzene	100	< 0.75	< 0.75
Ortho Xylene	1,000	< 0.75	< 0.75
p-Chlorotoluene	100	< 0.75	< 0.75
Propylbenzene	100	< 0.75	< 0.75
sec-Butylbenzene	100	< 0.75	< 0.75
Styrene	100	< 0.75	< 0.75
Tert Butyl Alcohol	100	< 12.5	< 12.5
tert-Butylbenzene	100	< 0.75	< 0.75
Tetrachloroethene	1	< 0.75	< 0.75
Toluene	600	< 0.75	< 0.75
Total Xylenes	1,000	< 2.3	< 2.3
Trans-1,2-Dichloroethene	100	< 0.75	< 0.75
Trans-1,3-Dichloropropene	1	< 0.75	< 0.75
Trichloroethene	1	< 0.75	< 0.75
Trichlorofluoromethane	2,000	< 0.75	< 0.75
Vinyl chloride	1	< 0.75	**0.76 J**

ATTACHMENT A-3
VALIDATED LABORATORY DATA FOR FTMM-58 SAMPLES

Attachment A-3
Validated Laboratory Data for FTMM-58 Samples

Loc ID	NJ Ground Water Quality Criteria	2567MW01	2567MW03	2567MW05
Sample ID		FTMM-58-GW-2567MW01-8.6	FTMM-58-GW-2567MW03-8	FTMM-58-GW-2567MW05-11
Sample Date		10/21/2016	10/21/2016	10/21/2016
Sample Round				
Filtered		Total	Total	Total
Volatile Organic Compounds (µg/l)				
Tert Butyl Alcohol	100	**344**	< 12.5	< 12.5

APPENDIX D

LABORATORY ANALYTICAL RESULTS

(Appendix D is provided electronically on the CD of this report)

ALS Environmental

34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com
NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 , DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

November 03, 2016

Work Order: 2184163
SDG: PQF048

Ms.Cris Grill
Parsons - Boston MA
100 High St.
4th Floor
Boston, MA 02110

Laboratory Results for: Ft. Monmouth GW Sampling

Dear Ms.Cris Grill:

Enclosed are the analytical results for samples received by the laboratory starting on October 21, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP. Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads. This laboratory report may not be reproduced, except infull, without the written approval of ALS Environmental. Any events, such as QC failures, are explained in the report narrative.

If you have any questions regarding this certificate of analysis, please contact Ms. Jennifer M Stanhope Lamoreux (Reporting Manager) at (717) 944-5541. You may also contact me via email at jennifer.lamoreux@ALSglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Jennifer M Stanhope Lamoreux
Reporting Manager

Table of Contents

Chain of Custody Records..... 3
Certificate of Analysis..... 7
Case Narrative..... 17
Volatile Organics by 8260 Summary Forms..... 20
Volatile Organics by 8260 Raw Data..... 50
- Sample Raw Data..... 51
- Standards Raw Data..... 79
  - Initial Calibrations..... 80
  - Initial Calibration Verifications..... 956
  - Continuing Calibrations..... 1086
- QC Raw Data..... 1470
  - Instrument Tune Raw Data..... 1471
  - Blank Raw Data..... 1480
  - MS/MSD Raw Data..... 1493
  - LCS Raw Data..... 1750
- Analytical Logbook..... 1880

Chain of Custody Records

ALS Environmental
1565 Jefferson Road
Building 300, Suite 360
Rochester, NY 14623
(585)288-5380

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

VB

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

CO
ALS

* 2 1 8 4 1 6 3 *

1 of 1

Client Name: Parsons Federal
Address: 100 High St. 4th Floor
Boston, MA 02110
Contact: Cory Mahony
Phone#: 617-449-1440
Project Name/#: FTMM
Bill To: Parsons Federal

TAT [X] Normal-Standard TAT is 10-12 business days.
[ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [X] -Y lorraine.weber@parsons.com
Fax? [ ] -Y No.:

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	VOC (8260C)+ 15 TICs	TBA ONLY - VOC (8260C)	AUTHORIZED TO RUN	EXTRACT AND HOLD
			Container Type		CG	CG		
			Container Size		40ml	40ml		
			Preservative		HCL	HCL		
			ANALYSES/METHOD REQUESTED					
			Enter Number of Containers Per Sample or Field Results Below.					
1 FTMM-64-GW-[illegible]-5	10/20/16	0955	G	GW	X	3		
2 FTMM-64-GW-[illegible]-5-MS	10/20/16	0955	G	GW	X			
3 FTMM-64-GW-[illegible]-5-MSD	10/20/16	0955	G	GW	X			
4 FTMM-64-GW-[illegible]-5	10/20/16	1200	G	GW	X			
5								
6								
7								
8								
9								
10								

Receipt Information (completed by Receiving Lab)
Cooler Temp: 1 Therm ID: 352
No. of Coolers: _____

	Y	N	Initial
Custody Seals Present?			SES
(If present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. In Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #:

Sample/COC Comments

ALS Field Services: X Pickup __Labor
__Composite Sampling __Rental Equipment
__Other:

Project Comments: 748810
MDL Must Meet NJDEP Groundwater Quality Standards

LOGGED BY(signature): DATE TIME
REVIEWED BY(signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	10/21/16	14:57	2	10/21/16	1457
3	10/21	1880	4	10-21	1880
5	10.21	2040	6	10/21	2040
7			8		
9			10		

Data Deliverables: [ ] Standard [X] CLP-like [ ] USACE [ ]
Special Processing: USACE [ ] Navy [ ] [ ]
State Samples Collected In: [ ] NY [X] NJ [ ] PA [ ] NC [ ]
Reportable to PADEP? Yes [ ]
PWSID #
Sample Disposal: Lab [ ] Special [ ]
EDDS: Format Type- ERPIMS

* G=Grab; C=Composite **Matrix - Al=Air; DW=Drinking Water; GW=Groundwater; Oi=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS ENVIRONMENTAL SHIPPING ADDRESS: 1565 Jefferson Road, Building 300, Suite 360 Rochester, NY 14623 USA

ALS Environmental
34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

Internal Chain of Custody

Work Order: 2184163

2184163001-A	COC - Chain of Custody		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:27	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184163001-B	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:27	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184163001-E	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:27	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184163001-F	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:27	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184163001-G	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:27	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184163001-H	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:27	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184163001-I	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:27	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184163001-J	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:27	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184163002-A	COC - Chain of Custody		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:27	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184163002-B	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:27	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

ALS Environmental
34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

Internal Chain of Custody

Work Order: 2184163

2184163002-C	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:27	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184163002-D	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:27	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

Certificate of Analysis

ALS Environmental

34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

October 26, 2016

Ms.Cris Grill
Parsons
100 High St.
4th Floor
Boston, MA 02110

Certificate of Analysis

Project Name:	**Ft. Monmouth GW Sampling**	Workorder:	**2184163**
Purchase Order:		Workorder ID:	**PQF048|FTMM PARCEL 64 GW VOC 1**

Dear Ms.Cris Grill:

Enclosed are the analytical results for samples received by the laboratory on Friday, October 21, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vanessa N Badman (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vanessa N. Badman
Mrs. Vanessa N Badman
Project Coordinator

ALS Environmental
34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com
NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2184163 PQF048|FTMM PARCEL 64 GW VOC 1

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2184163001	FTMM-64-GW-812MW04-5	Water	10/20/2016 09:55	10/21/2016 20:40	Collected by Client
2184163002	FTMM-64-GW-812MW104-5	Water	10/20/2016 12:00	10/21/2016 20:40	Collected by Client

ALS Environmental
34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com
NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2184163 PQF048|FTMM PARCEL 64 GW VOC 1

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

ALS Environmental
34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com
NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2184163 PQF048|FTMM PARCEL 64 GW VOC 1

Lab ID: **2184163001** Date Collected: 10/20/2016 09:55 Matrix: Water
Sample ID: **FTMM-64-GW-812MW04-5** Date Received: 10/21/2016 20:40

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		10/26/16 03:51	CJG	B
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		10/26/16 03:51	CJG	B
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		10/26/16 03:51	CJG	B
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		10/26/16 03:51	CJG	B
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		10/26/16 03:51	CJG	B
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B

ALS Environmental
34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com
NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2184163 PQF048|FTMM PARCEL 64 GW VOC 1

Lab ID: **2184163001** Date Collected: 10/20/2016 09:55 Matrix: Water
Sample ID: **FTMM-64-GW-812MW04-5** Date Received: 10/21/2016 20:40

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Hexachlorobutadiene	0.75U	U	ug/L	1.0	0.75	0.43	SW846 8260C		10/26/16 03:51	CJG	B
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		10/26/16 03:51	CJG	B
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		10/26/16 03:51	CJG	B
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Total Xylenes	2.3U	U	ug/L	3.0	2.3	1.0	SW846 8260C		10/26/16 03:51	CJG	B
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		10/26/16 03:51	CJG	B
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
Vinyl Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 03:51	CJG	B
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		10/26/16 03:51	CJG	B

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	110		%	81 - 118	SW846 8260C		10/26/16 03:51	CJG	B
4-Bromofluorobenzene (S)	94.7		%	85 - 114	SW846 8260C		10/26/16 03:51	CJG	B
Dibromofluoromethane (S)	84.1		%	80 - 119	SW846 8260C		10/26/16 03:51	CJG	B
Toluene-d8 (S)	90.9		%	89 - 112	SW846 8260C		10/26/16 03:51	CJG	B

LIBRARY SEARCH - VOLATILES

No TIC's Detected	.				Lib Search VOC		10/26/16 03:51	CPK	B

ALS Environmental
34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2184163 PQF048|FTMM PARCEL 64 GW VOC 1

Lab ID: **2184163001** Date Collected: 10/20/2016 09:55 Matrix: Water
Sample ID: **FTMM-64-GW-812MW04-5** Date Received: 10/21/2016 20:40

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	*Cntr*

Vanessa N. Badman
Mrs. Vanessa N Badman
Project Coordinator

ALS Environmental
34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com
NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2184163 PQF048|FTMM PARCEL 64 GW VOC 1

Lab ID: **2184163002** Date Collected: 10/20/2016 12:00 Matrix: Water
Sample ID: **FTMM-64-GW-812MW104-5** Date Received: 10/21/2016 20:40

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
Acetone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		10/26/16 04:13	CJG	B
Benzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Bromobenzene	0.75U	U	ug/L	1.0	0.75	0.20	SW846 8260C		10/26/16 04:13	CJG	B
Bromochloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Bromodichloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Bromoform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Bromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
2-Butanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		10/26/16 04:13	CJG	B
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		10/26/16 04:13	CJG	B
n-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
tert-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
sec-Butylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Carbon Tetrachloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Chlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Chlorodibromomethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Chloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Chloroform	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Chloromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
o-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
p-Chlorotoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
1,2-Dibromo-3-chloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		10/26/16 04:13	CJG	B
1,2-Dibromoethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
1,2-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
1,3-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
1,4-Dichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Dichlorodifluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
1,1-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
1,2-Dichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
1,1-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
cis-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
trans-1,2-Dichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
1,3-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
2,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
1,2-Dichloropropane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
1,1-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
cis-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B

ALS Environmental
34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com
NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2184163 PQF048|FTMM PARCEL 64 GW VOC 1

Lab ID: **2184163002** Date Collected: 10/20/2016 12:00 Matrix: Water
Sample ID: **FTMM-64-GW-812MW104-5** Date Received: 10/21/2016 20:40

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
trans-1,3-Dichloropropene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Ethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Hexachlorobutadiene	0.75U	U	ug/L	1.0	0.75	0.43	SW846 8260C		10/26/16 04:13	CJG	B
2-Hexanone	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		10/26/16 04:13	CJG	B
Isopropylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
p-Isopropyltoluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Methyl t-Butyl Ether	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
4-Methyl-2-Pentanone(MIBK)	3.8U	U	ug/L	5.0	3.8	1.6	SW846 8260C		10/26/16 04:13	CJG	B
Methylene Chloride	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Naphthalene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
n-Propylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Styrene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
1,1,1,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
1,1,2,2-Tetrachloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Tetrachloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Toluene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Total Xylenes	2.3U	U	ug/L	3.0	2.3	1.0	SW846 8260C		10/26/16 04:13	CJG	B
1,2,3-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
1,2,4-Trichlorobenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
1,1,1-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
1,1,2-Trichloroethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Trichloroethene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Trichlorofluoromethane	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
1,2,3-Trichloropropane	2.5U	U	ug/L	5.0	2.5	1.6	SW846 8260C		10/26/16 04:13	CJG	B
1,2,4-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
1,3,5-Trimethylbenzene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
Vinyl Chloride	0.76J	J	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
o-Xylene	0.75U	U	ug/L	1.0	0.75	0.33	SW846 8260C		10/26/16 04:13	CJG	B
mp-Xylene	1.5U	U	ug/L	2.0	1.5	0.66	SW846 8260C		10/26/16 04:13	CJG	B

Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	111		%	81 - 118	SW846 8260C		10/26/16 04:13	CJG	B
4-Bromofluorobenzene (S)	93.4		%	85 - 114	SW846 8260C		10/26/16 04:13	CJG	B
Dibromofluoromethane (S)	86.1		%	80 - 119	SW846 8260C		10/26/16 04:13	CJG	B
Toluene-d8 (S)	92		%	89 - 112	SW846 8260C		10/26/16 04:13	CJG	B

LIBRARY SEARCH - VOLATILES

No TIC's Detected	.				Lib Search VOC		10/26/16 04:13	CPK	B

ALS Environmental
34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2184163 PQF048|FTMM PARCEL 64 GW VOC 1

Lab ID: **2184163002** Date Collected: 10/20/2016 12:00 Matrix: Water
Sample ID: **FTMM-64-GW-812MW104-5** Date Received: 10/21/2016 20:40

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	*Cntr*

Vanessa N. Badman
Mrs. Vanessa N Badman
Project Coordinator

Case Narrative

Parsons
ALS-Middletown
Case Narrative
PQF-048
2184163

Sample Management

This report contains the results of the analysis of two (2) water samples collected on October 20, 2016. Analytical results and quality control information are summarized in this data package.

Qualifier Symbol Definitions:

U = Qualifier indicates that the analyte was not detected above the LOD.
J = Qualifier indicates that the analyte value is between the DL and the LOQ.
B = Qualifier indicates that the analyte was detected in the blank.
E = Qualifier indicates that the analyte result exceeds the calibration range.
P = Qualifier indicates that the RPD between the two analytical columns is > 40%.
NSC = Qualifier indicates that spike recoveries were not calculated based on the spiking concentration.

Result Symbol Definitions:

DL = The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration at the 99% level of confidence.
LOD = The smallest analyte concentration that must be present in a sample in order to be detected at a high level of confidence.
LOQ = The lowest concentration that produces a quantitative result within specified limits of precision or bias.

Manual Integration Symbol Definitions

I = Peak was not integrated properly by chromatographic software. This may be due to baseline irregularities resulting from sample matrix, elevated baseline, or incorrect integration by software on a sample. Integration was adjusted by operator to ensure proper quantitation.
H = The incorrect peak was identified or the chromatographic software did not identify an analyte peak. Operator manually identified the correct peak as the appropriate target analyte. This flag is automatically assigned by the Target software.
SP = Peak was erroneously split. The operator manually integrated the peak to include all the area of the analyte peak to ensure proper quantitation.
MP = Two peaks were erroneously merged. This may include two discrete peaks separated by a distinguishable valley or a larger peak with a clearly identifiable shoulder. Operator manually split peaks.
AB = Integration of group of adjacent peaks did not follow baseline. Operator manually assigned integration to follow baseline.
NP = Negative spike in the baseline resulted in overstating area of analyte peaks. Analyte peaks were re-assigned.
AC = Integration of aggregate or multi-component analyte to include area off all components of the analyte (i.e., toxaphene).

Sample Receipt

The samples were received at ALS-Middletown via courier on October 21, 2016. The samples were received intact and properly preserved, unless noted on the enclosed Certificate of Analysis and/or Chain of Custody.

Manual Integrations

If manual integrations were performed they are indicated on the raw data quantification files for each method.

Volatile Organics by SW-846 Method 8260

Sample Handling. Two (2) water samples were analyzed by SW-846 Method 8260 for volatile organic compounds. All analyses were performed within holding time.

Initial Calibrations. Initial calibrations were properly analyzed and met method criteria for all target analytes. **Note:** The batch LCS also serves as a second source (ICV).

Continuing Calibration Verification. Continuing calibration standards were properly analyzed and met method criteria.

Blanks. Target analytes were not detected in the method blank.

Surrogates. Recoveries were within control limits, except as follows:

- In 2429373 MS, Toluene-d8 was recovered below control limits.
- In 2429374 MSD, Toluene-d8 was recovered below control limits.

Laboratory control samples. Target analytes were recovered within control limits.

Matrix and Matrix Spike samples. Target analytes were recovered within control limits.

Internal Standards. Internal standard results met method criteria.

Volatile Organics by 8260 Summary Forms

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ALS Global **Contract:**

Lab Code: VOA **CASE No.:** **SAS No.:** **SDG NO.:** PQF-048

	Sample NO.	SMC1 (BFB) #	SMC2 (DBFM)	SMC3 (DCE) #	SMC4 (TOL) #	TOT OUT
01	2428716(LCS)	93.7	83.9	95.6	90.5	0

	QC LIMITS
SMC1 (BFB) = 4-Bromofluorobenzene	(85-114)
SMC2 (DBFM) = Dibromofluoromethane	(80-119)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(81-118)
SMC4 (TOL) = Toluene-d8	(89-112)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate Diluted Out

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ALS Global **Contract:**

Lab Code: VOA **CASE No.:** **SAS No.:** **SDG NO.:** PQF-048

	Sample NO.	SMC1 (BFB) #	SMC2 (DBFM)	SMC3 (DCE) #	SMC4 (TOL) #	TOT OUT
02	2429301(MB)	95.0	82.8	105	93.6	0
03	2429302(LCS)	93.2	83.5	104	91.3	0
04	FTMM-64-GW-812MW04-5	94.7	84.1	110	90.9	0
05	FTMM-64-GW-812MW104-5	93.4	86.1	111	92.0	0
06	FTMM-64-GW-81...MS	91.5	86.9	108	88.7 *	1
07	FTMM-64-GW-8...MSD	94.6	85.0	109	88.0 *	1

	QC LIMITS
SMC1 (BFB) = 4-Bromofluorobenzene	(85-114)
SMC2 (DBFM) = Dibromofluoromethane	(80-119)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(81-118)
SMC4 (TOL) = Toluene-d8	(89-112)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate Diluted Out

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Laboratory Control Spike - Sample No: 1801-1025160917

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
Acetone	250		247	98.8	(50-150)
Acrolein	500		467	93.4	(50-150)
Acrylonitrile	250		243	97.2	(50-150)
Acetonitrile	250		300	120	(50-150)
tert-Amyl Ethylether	50		50.0	100	(50-150)
tert-Amyl methyl ether	50		48.7	97.4	(50-150)
tert-Amyl Alcohol	250		269	108	(50-150)
Benzene	50		46.0	92.0	(50-150)
Benzyl Chloride	50		26.8	53.6	(50-150)
Bromobenzene	50		43.9	87.8	(50-150)
Bromochloromethane	50		46.1	92.2	(50-150)
Bromodichloromethane	50		47.9	95.8	(50-150)
Bromoform	50		39.7	79.4	(50-150)
Bromomethane	50		47.4	94.8	(50-150)
2-Butanone	250		255	102	(50-150)
tert.- Butyl Alcohol	250		293	117	(50-150)
tert-Butylbenzene	50		47.4	94.8	(50-150)
n-Butylbenzene	50		47.5	95.0	(50-150)
sec-Butylbenzene	50		48.5	97.0	(50-150)
Carbon Disulfide	50		41.2	82.4	(50-150)
Carbon Tetrachloride	50		46.6	93.2	(50-150)
Chloroacetonitrile	250		269	108	(50-150)
Chlorobenzene	50		43.3	86.6	(50-150)
1-Chlorobutane	50		51.4	103	(50-150)
Chlorodibromomethane	50		47.2	94.4	(50-150)
Chloroethane	50		53.8	108	(50-150)
2-Chloroethylvinyl ethe	50		43.4	86.8	(50-150)
Chloroform	50		49.2	98.4	(50-150)
1-Chlorohexane	50		47.0	94.0	(50-150)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 114 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Laboratory Control Spike - Sample No: 1801-1025160917

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
Chloromethane	50		55.2	110	(50-150)
Chloroprene	50		47.8	95.6	(50-150)
3-Chloro-1-propene	50		38.9	77.8	(50-150)
o-Chlorotoluene	50		46.7	93.4	(50-150)
p-Chlorotoluene	50		46.6	93.2	(50-150)
Cyclohexane	50		45.6	91.2	(50-150)
1,2-Dibromo-3-Chloropro	50		47.7	95.4	(50-150)
1,2-Dibromoethane	50		46.9	93.8	(50-150)
Dibromomethane	50		46.6	93.2	(50-150)
trans-1,4-Dichloro-2-bu	50		36.2	72.4	(50-150)
1,2-Dichlorobenzene	50		47.8	95.6	(50-150)
1,3-Dichlorobenzene	50		48.1	96.2	(50-150)
1,4-Dichlorobenzene	50		48.1	96.2	(50-150)
Dichlorodifluoromethane	50		54.2	108	(50-150)
1,1-Dichloroethane	50		46.0	92.0	(50-150)
1,2-Dichloroethene, Tot	100		91.1	91.1	(50-150)
1,2-Dichloroethane	50		45.9	91.8	(50-150)
1,1-Dichloroethene	50		43.5	87.0	(50-150)
cis-1,2-Dichloroethene	50		45.8	91.6	(50-150)
trans-1,2-Dichloroethen	50		45.3	90.6	(50-150)
Dichlorofluoromethane	50		44.2	88.4	(50-150)
1,1-Dichloro-2-Propanon	250		249	99.6	(50-150)
2,2-Dichloropropane	50		35.2	70.4	(50-150)
1,3-Dichloropropane	50		45.5	91.0	(50-150)
1,2-Dichloropropane	50		47.5	95.0	(50-150)
1,1-Dichloropropene	50		46.0	92.0	(50-150)
cis-1,3-Dichloropropene	50		47.4	94.8	(50-150)
trans-1,3-Dichloroprope	50		48.2	96.4	(50-150)
1,3-Dichloropropene, To	100		95.6	95.6	(50-150)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 114 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Laboratory Control Spike - Sample No: 1801-1025160917

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC	
Diisobutylene	50		52.5	105	(50-150)	
Diisopropyl ether	50		49.4	98.8	(50-150)	
1,4-Dioxane	1250		2520	202*	(50-150)	NT
Ethyl Acetate	50		51.6	103	(50-150)	
Ethyl ether	50		45.0	90.0	(50-150)	
Ethyl Methacrylate	50		52.7	105	(50-150)	
Ethyl tert-butyl ether	50		49.4	98.8	(50-150)	
Ethylbenzene	50		45.0	90.0	(50-150)	
Freon 113	50		42.1	84.2	(50-150)	
Heptane	50		43.8	87.6	(50-150)	
Hexachlorobutadiene	50		47.1	94.2	(50-150)	
Hexachloroethane	50		44.1	88.2	(50-150)	
Hexane	50		44.3	88.6	(50-150)	
2-Hexanone	250		277	111	(50-150)	
Iodomethane	50		47.5	95.0	(50-150)	
Isobutyl alcohol	500		726	145	(50-150)	
Isopropyl Alcohol	250		332	133	(50-150)	
Isopropylbenzene	50		47.2	94.4	(50-150)	
p-Isopropyltoluene	50		49.4	98.8	(50-150)	
Methyl acetate	50		47.8	95.6	(50-150)	
Methyl acrylate	50		50.8	102	(50-150)	
Methacrylonitrile	50		48.0	96.0	(50-150)	
Methyl cyclohexane	50		44.8	89.6	(50-150)	
Methyl methacrylate	50		52.7	105	(50-150)	
Methyl t-Butyl Ether	50		47.0	94.0	(50-150)	
4-Methyl-2-Pentanone(MI	250		268	107	(50-150)	
Methylene Chloride	50		47.5	95.0	(50-150)	
Naphthalene	50		45.2	90.4	(50-150)	
Nitrobenzene	500		305	61.0	(50-150)	

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 114 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Laboratory Control Spike - Sample No: 1801-1025160917

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
2-Nitropropane	250		247	98.8	(50-150)
Octane	50		42.6	85.2	(50-150)
Pentachloroethane	50		43.9	87.8	(50-150)
Pentane	50		46.2	92.4	(50-150)
n-Propanol	500		542	108	(50-150)
Propionitrile	250		251	100	(50-150)
n-Propylbenzene	50		48.0	96.0	(50-150)
Styrene	50		48.8	97.6	(50-150)
1,1,1,2-Tetrachloroetha	50		47.8	95.6	(50-150)
1,1,2,2-Tetrachloroetha	50		46.4	92.8	(50-150)
Tetrachloroethene	50		52.2	104	(50-150)
Tetrahydrofuran	250		258	103	(50-150)
Toluene	50		46.3	92.6	(50-150)
Total Xylenes	150		139	92.7	(50-150)
1,2,3-Trichlorobenzene	50		45.9	91.8	(50-150)
1,2,4-Trichlorobenzene	50		45.8	91.6	(50-150)
1,1,1-Trichloroethane	50		47.3	94.6	(50-150)
1,1,2-Trichloroethane	50		45.7	91.4	(50-150)
Trichloroethene	50		43.8	87.6	(50-150)
Trichlorofluoromethane	50		52.0	104	(50-150)
1,2,3-Trichloropropane	50		44.8	89.6	(50-150)
1,2,4-Trimethylbenzene	50		49.5	99.0	(50-150)
1,3,5-Trimethylbenzene	50		48.9	97.8	(50-150)
Vinyl Acetate	50		44.9	89.8	(50-150)
Vinyl Chloride	50		54.1	108	(50-150)
o-Xylene	50		47.8	95.6	(50-150)
mp-Xylene	100		91.7	91.7	(50-150)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 114 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Laboratory Control Spike - Sample No: 1801-1026160814

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
Acetone	250		255	102	(50-150)
Acrolein	500		506	101	(50-150)
Acrylonitrile	250		253	101	(50-150)
Acetonitrile	250		321	128	(50-150)
tert-Amyl Ethylether	50		51.6	103	(50-150)
tert-Amyl methyl ether	50		49.1	98.2	(50-150)
tert-Amyl Alcohol	250		257	103	(50-150)
Benzene	50		47.4	94.8	(50-150)
Benzyl Chloride	50		30.5	61.0	(50-150)
Bromobenzene	50		45.4	90.8	(50-150)
Bromochloromethane	50		46.6	93.2	(50-150)
Bromodichloromethane	50		50.5	101	(50-150)
Bromoform	50		42.5	85.0	(50-150)
Bromomethane	50		49.4	98.8	(50-150)
2-Butanone	250		253	101	(50-150)
tert.- Butyl Alcohol	250		298	119	(50-150)
tert-Butylbenzene	50		48.8	97.6	(50-150)
n-Butylbenzene	50		49.6	99.2	(50-150)
sec-Butylbenzene	50		50.7	101	(50-150)
Carbon Disulfide	50		46.5	93.0	(50-150)
Carbon Tetrachloride	50		48.1	96.2	(50-150)
Chloroacetonitrile	250		282	113	(50-150)
Chlorobenzene	50		43.4	86.8	(50-150)
1-Chlorobutane	50		55.6	111	(50-150)
Chlorodibromomethane	50		48.3	96.6	(50-150)
Chloroethane	50		52.5	105	(50-150)
2-Chloroethylvinyl ethe	50		44.3	88.6	(50-150)
Chloroform	50		50.7	101	(50-150)
1-Chlorohexane	50		48.5	97.0	(50-150)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 114 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Laboratory Control Spike - Sample No: 1801-1026160814

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
Chloromethane	50		55.1	110	(50-150)
Chloroprene	50		51.3	103	(50-150)
3-Chloro-1-propene	50		46.0	92.0	(50-150)
o-Chlorotoluene	50		48.9	97.8	(50-150)
p-Chlorotoluene	50		48.9	97.8	(50-150)
Cyclohexane	50		48.7	97.4	(50-150)
1,2-Dibromo-3-Chloropro	50		48.1	96.2	(50-150)
1,2-Dibromoethane	50		46.6	93.2	(50-150)
Dibromomethane	50		47.2	94.4	(50-150)
trans-1,4-Dichloro-2-bu	50		44.7	89.4	(50-150)
1,2-Dichlorobenzene	50		49.5	99.0	(50-150)
1,3-Dichlorobenzene	50		49.4	98.8	(50-150)
1,4-Dichlorobenzene	50		49.8	99.6	(50-150)
Dichlorodifluoromethane	50		50.5	101	(50-150)
1,1-Dichloroethane	50		47.8	95.6	(50-150)
1,2-Dichloroethene, Tot	100		96.8	96.8	(50-150)
1,2-Dichloroethane	50		48.5	97.0	(50-150)
1,1-Dichloroethene	50		47.7	95.4	(50-150)
cis-1,2-Dichloroethene	50		48.1	96.2	(50-150)
trans-1,2-Dichloroethen	50		48.7	97.4	(50-150)
Dichlorofluoromethane	50		46.8	93.6	(50-150)
1,1-Dichloro-2-Propanon	250		245	98.0	(50-150)
2,2-Dichloropropane	50		39.9	79.8	(50-150)
1,3-Dichloropropane	50		46.1	92.2	(50-150)
1,2-Dichloropropane	50		49.9	99.8	(50-150)
1,1-Dichloropropene	50		48.7	97.4	(50-150)
cis-1,3-Dichloropropene	50		49.2	98.4	(50-150)
trans-1,3-Dichloroprope	50		49.8	99.6	(50-150)
1,3-Dichloropropene, To	100		99.0	99.0	(50-150)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 114 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Laboratory Control Spike - Sample No: 1801-1026160814

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC	
Diisobutylene	50		57.4	115	(50-150)	
Diisopropyl ether	50		52.6	105	(50-150)	
1,4-Dioxane	1250		2340	187*	(50-150)	NT
Ethyl Acetate	50		53.6	107	(50-150)	
Ethyl ether	50		45.6	91.2	(50-150)	
Ethyl Methacrylate	50		52.8	106	(50-150)	
Ethyl tert-butyl ether	50		51.2	102	(50-150)	
Ethylbenzene	50		45.2	90.4	(50-150)	
Freon 113	50		46.0	92.0	(50-150)	
Heptane	50		49.9	99.8	(50-150)	
Hexachlorobutadiene	50		50.9	102	(50-150)	
Hexachloroethane	50		45.9	91.8	(50-150)	
Hexane	50		47.8	95.6	(50-150)	
2-Hexanone	250		278	111	(50-150)	
Iodomethane	50		53.8	108	(50-150)	
Isobutyl alcohol	500		727	145	(50-150)	
Isopropyl Alcohol	250		337	135	(50-150)	
Isopropylbenzene	50		49.4	98.8	(50-150)	
p-Isopropyltoluene	50		51.3	103	(50-150)	
Methyl acetate	50		48.4	96.8	(50-150)	
Methyl acrylate	50		52.5	105	(50-150)	
Methacrylonitrile	50		48.9	97.8	(50-150)	
Methyl cyclohexane	50		47.7	95.4	(50-150)	
Methyl methacrylate	50		54.0	108	(50-150)	
Methyl t-Butyl Ether	50		48.3	96.6	(50-150)	
4-Methyl-2-Pentanone(MI	250		273	109	(50-150)	
Methylene Chloride	50		49.4	98.8	(50-150)	
Naphthalene	50		45.1	90.2	(50-150)	
Nitrobenzene	500		335	67.0	(50-150)	

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 114 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Laboratory Control Spike - Sample No: 1801-1026160814

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
2-Nitropropane	250		248	99.2	(50-150)
Octane	50		49.1	98.2	(50-150)
Pentachloroethane	50		46.5	93.0	(50-150)
Pentane	50		55.9	112	(50-150)
n-Propanol	500		584	117	(50-150)
Propionitrile	250		266	106	(50-150)
n-Propylbenzene	50		49.2	98.4	(50-150)
Styrene	50		50.5	101	(50-150)
1,1,1,2-Tetrachloroetha	50		47.9	95.8	(50-150)
1,1,2,2-Tetrachloroetha	50		47.7	95.4	(50-150)
Tetrachloroethene	50		52.0	104	(50-150)
Tetrahydrofuran	250		268	107	(50-150)
Toluene	50		47.0	94.0	(50-150)
Total Xylenes	150		141	94.0	(50-150)
1,2,3-Trichlorobenzene	50		47.5	95.0	(50-150)
1,2,4-Trichlorobenzene	50		46.8	93.6	(50-150)
1,1,1-Trichloroethane	50		49.2	98.4	(50-150)
1,1,2-Trichloroethane	50		46.2	92.4	(50-150)
Trichloroethene	50		45.4	90.8	(50-150)
Trichlorofluoromethane	50		50.6	101	(50-150)
1,2,3-Trichloropropane	50		45.3	90.6	(50-150)
1,2,4-Trimethylbenzene	50		51.7	103	(50-150)
1,3,5-Trimethylbenzene	50		51.3	103	(50-150)
Vinyl Acetate	50		45.6	91.2	(50-150)
Vinyl Chloride	50		52.9	106	(50-150)
o-Xylene	50		48.3	96.6	(50-150)
mp-Xylene	100		92.6	92.6	(50-150)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 114 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Laboratory Control Spike - Sample No: 2428716

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
Acetone	100		96.5	96.5	(39-160)
Benzene	20		18.2	91	(79-120)
Bromobenzene	20		18.4	91.9	(80-120)
Bromochloromethane	20		18.5	92.7	(78-123)
Bromodichloromethane	20		18.5	92.6	(79-125)
Bromoform	20		17.4	87.1	(66-130)
Bromomethane	20		16.6	82.8	(53-141)
2-Butanone	100		95.3	95.3	(56-143)
tert.- Butyl Alcohol	100		106	106	(68-129)
tert-Butylbenzene	20		19.4	97	(78-124)
n-Butylbenzene	20		18.8	94	(75-128)
sec-Butylbenzene	20		19.9	99.3	(77-126)
Carbon Tetrachloride	20		18.8	93.9	(72-136)
Chlorobenzene	20		17.6	88	(82-118)
Chlorodibromomethane	20		18.7	93.6	(74-126)
Chloroethane	20		20.7	104	(60-138)
Chloroform	20		19.5	97.4	(79-124)
Chloromethane	20		18.2	90.9	(50-139)
o-Chlorotoluene	20		18.8	94.1	(79-122)
p-Chlorotoluene	20		18.8	94.2	(78-122)
1,2-Dibromo-3-Chloropro	20		18.0	89.8	(62-128)
1,2-Dibromoethane	20		19.0	95	(77-121)
1,2-Dichlorobenzene	20		19.4	97	(80-119)
1,3-Dichlorobenzene	20		19.6	97.9	(80-119)
1,4-Dichlorobenzene	20		19.8	99	(79-118)
Dichlorodifluoromethane	20		16.5	82.4	(32-152)
1,1-Dichloroethane	20		18.5	92.7	(77-125)
1,2-Dichloroethane	20		18.4	91.8	(73-128)
1,1-Dichloroethene	20		18.3	91.6	(71-131)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 65 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Laboratory Control Spike - Sample No: 2428716

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
cis-1,2-Dichloroethene	20		18.2	90.9	(78-123)
trans-1,2-Dichloroethen	20		18.6	93.2	(75-124)
2,2-Dichloropropane	20		16.2	80.9	(60-139)
1,3-Dichloropropane	20		17.9	89.7	(80-119)
1,2-Dichloropropane	20		18.9	94.7	(78-122)
1,1-Dichloropropene	20		18.9	94.5	(79-125)
cis-1,3-Dichloropropene	20		17.9	89.6	(75-124)
trans-1,3-Dichloroprope	20		19.3	96.3	(73-127)
Ethylbenzene	20		18.5	92.5	(79-121)
Hexachlorobutadiene	20		20.7	104	(66-134)
2-Hexanone	100		102	102	(57-139)
Isopropylbenzene	20		19.5	97.5	(72-131)
p-Isopropyltoluene	20		20.0	100	(77-127)
Methyl t-Butyl Ether	20		17.9	89.6	(71-124)
4-Methyl-2-Pentanone(MI	100		101	101	(67-130)
Methylene Chloride	20		19.4	97.2	(74-124)
Naphthalene	20		16.3	81.6	(61-128)
n-Propylbenzene	20		19.6	98.1	(76-126)
Styrene	20		19.7	98.5	(78-123)
1,1,1,2-Tetrachloroetha	20		19.5	97.5	(78-124)
1,1,2,2-Tetrachloroetha	20		18.6	92.9	(71-121)
Tetrachloroethene	20		22.5	113	(74-129)
Toluene	20		19.2	96	(80-121)
Total Xylenes	60		56.4	93.9	(79-121)
1,2,3-Trichlorobenzene	20		18.5	92.3	(69-129)
1,2,4-Trichlorobenzene	20		18.4	92.1	(69-130)
1,1,1-Trichloroethane	20		19.0	94.9	(74-131)
1,1,2-Trichloroethane	20		18.0	90	(80-119)
Trichloroethene	20		17.7	88.4	(79-123)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 65 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Laboratory Control Spike - Sample No: 2428716

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
Trichlorofluoromethane	20		20.3	102	(65-141)
1,2,3-Trichloropropane	20		18.6	93.2	(73-122)
1,2,4-Trimethylbenzene	20		19.9	99.5	(76-124)
1,3,5-Trimethylbenzene	20		20.0	99.8	(75-124)
Vinyl Chloride	20		18.8	93.9	(58-137)
o-Xylene	20		19.1	95.6	(78-122)
mp-Xylene	40		37.2	93.1	(80-121)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 65 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Laboratory Control Spike - Sample No: 2429302

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
Acetone	100		112	112	(39-160)
Benzene	20		19.5	97.5	(79-120)
Bromobenzene	20		18.6	93.1	(80-120)
Bromochloromethane	20		18.9	94.3	(78-123)
Bromodichloromethane	20		19.4	97.1	(79-125)
Bromoform	20		17.1	85.4	(66-130)
Bromomethane	20		19.8	98.9	(53-141)
2-Butanone	100		107	107	(56-143)
tert.- Butyl Alcohol	100		114	114	(68-129)
tert-Butylbenzene	20		20.0	100	(78-124)
n-Butylbenzene	20		19.2	96.2	(75-128)
sec-Butylbenzene	20		20.1	101	(77-126)
Carbon Tetrachloride	20		19.9	99.3	(72-136)
Chlorobenzene	20		18.3	91.5	(82-118)
Chlorodibromomethane	20		18.5	92.6	(74-126)
Chloroethane	20		20.7	104	(60-138)
Chloroform	20		20.7	103	(79-124)
Chloromethane	20		19.4	97.1	(50-139)
o-Chlorotoluene	20		20.1	101	(79-122)
p-Chlorotoluene	20		20.0	99.8	(78-122)
1,2-Dibromo-3-Chloropro	20		19.2	96	(62-128)
1,2-Dibromoethane	20		19.0	95.2	(77-121)
1,2-Dichlorobenzene	20		20.0	100	(80-119)
1,3-Dichlorobenzene	20		20.3	101	(80-119)
1,4-Dichlorobenzene	20		20.5	102	(79-118)
Dichlorodifluoromethane	20		16.7	83.7	(32-152)
1,1-Dichloroethane	20		19.8	99.1	(77-125)
1,2-Dichloroethane	20		19.5	97.6	(73-128)
1,1-Dichloroethene	20		19.8	98.9	(71-131)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 65 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Laboratory Control Spike - Sample No: 2429302

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
cis-1,2-Dichloroethene	20		19.4	97	(78-123)
trans-1,2-Dichloroethen	20		20.2	101	(75-124)
2,2-Dichloropropane	20		20.8	104	(60-139)
1,3-Dichloropropane	20		18.8	94.2	(80-119)
1,2-Dichloropropane	20		20.2	101	(78-122)
1,1-Dichloropropene	20		20.7	104	(79-125)
cis-1,3-Dichloropropene	20		19.2	96.2	(75-124)
trans-1,3-Dichloroprope	20		20.4	102	(73-127)
Ethylbenzene	20		19.1	95.4	(79-121)
Hexachlorobutadiene	20		20.3	102	(66-134)
2-Hexanone	100		110	110	(57-139)
Isopropylbenzene	20		20.2	101	(72-131)
p-Isopropyltoluene	20		20.3	101	(77-127)
Methyl t-Butyl Ether	20		19.7	98.3	(71-124)
4-Methyl-2-Pentanone(MI	100		109	109	(67-130)
Methylene Chloride	20		20.3	102	(74-124)
Naphthalene	20		15.8	78.9	(61-128)
n-Propylbenzene	20		20.1	100	(76-126)
Styrene	20		20.4	102	(78-123)
1,1,1,2-Tetrachloroetha	20		19.7	98.7	(78-124)
1,1,2,2-Tetrachloroetha	20		19.6	97.9	(71-121)
Tetrachloroethene	20		22.3	112	(74-129)
Toluene	20		20.1	100	(80-121)
Total Xylenes	60		58.4	97.3	(79-121)
1,2,3-Trichlorobenzene	20		17.7	88.6	(69-129)
1,2,4-Trichlorobenzene	20		18.3	91.3	(69-130)
1,1,1-Trichloroethane	20		20.1	101	(74-131)
1,1,2-Trichloroethane	20		18.9	94.4	(80-119)
Trichloroethene	20		18.9	94.4	(79-123)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 65 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Laboratory Control Spike - Sample No: 2429302

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
Trichlorofluoromethane	20		19.8	99.2	(65-141)
1,2,3-Trichloropropane	20		19.5	97.4	(73-122)
1,2,4-Trimethylbenzene	20		20.8	104	(76-124)
1,3,5-Trimethylbenzene	20		21.0	105	(75-124)
Vinyl Chloride	20		19.1	95.5	(58-137)
o-Xylene	20		19.7	98.3	(78-122)
mp-Xylene	40		38.7	96.8	(80-121)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 65 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Matrix Spike - Sample No: FTMM-64-GW-81...MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC#	QC LIMIT REC
Acetone	100	0	107	107	(39-160)
Benzene	20	0	20.6	103	(79-120)
Bromobenzene	20	0	19.5	97.7	(80-120)
Bromochloromethane	20	0	19.8	98.9	(78-123)
Bromodichloromethane	20	0	20.5	103	(79-125)
Bromoform	20	0	16.1	80.6	(66-130)
Bromomethane	20	0	18.2	91.1	(53-141)
2-Butanone	100	0	105	105	(56-143)
tert.- Butyl Alcohol	100	0	106	106	(68-129)
tert-Butylbenzene	20	0	21.1	105	(78-124)
n-Butylbenzene	20	0	20.1	100	(75-128)
sec-Butylbenzene	20	0	22.3	111	(77-126)
Carbon Tetrachloride	20	0	20.9	105	(72-136)
Chlorobenzene	20	0	18.4	91.8	(82-118)
Chlorodibromomethane	20	0	18.0	89.8	(74-126)
Chloroethane	20	0	20.5	102	(60-138)
Chloroform	20	0	21.2	106	(79-124)
Chloromethane	20	0	19.6	97.8	(50-139)
o-Chlorotoluene	20	0	21.3	107	(79-122)
p-Chlorotoluene	20	0	21.1	105	(78-122)
1,2-Dibromo-3-chloropropane	20	0	19.1	95.4	(62-128)
1,2-Dibromoethane	20	0	18.4	91.9	(77-121)
1,2-Dichlorobenzene	20	0	21.0	105	(80-119)
1,3-Dichlorobenzene	20	0	21.0	105	(80-119)
1,4-Dichlorobenzene	20	0	21.3	107	(79-118)
Dichlorodifluoromethane	20	0	16.0	80	(32-152)
1,1-Dichloroethane	20	0	21.1	106	(77-125)
1,2-Dichloroethane	20	0	20.7	103	(73-128)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 65 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Matrix Spike - Sample No: FTMM-64-GW-81...MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC#	QC LIMIT REC
1,1-Dichloroethene	20	0	21.7	109	(71-131)
cis-1,2-Dichloroethene	20	0	21.1	106	(78-123)
trans-1,2-Dichloroethene	20	0	21.7	109	(75-124)
2,2-Dichloropropane	20	0	17.1	85.3	(60-139)
1,3-Dichloropropane	20	0	18.9	94.7	(80-119)
1,2-Dichloropropane	20	0	21.1	105	(78-122)
1,1-Dichloropropene	20	0	22.3	112	(79-125)
cis-1,3-Dichloropropene	20	0	18.0	90.1	(75-124)
trans-1,3-Dichloropropene	20	0	19.6	97.8	(73-127)
Ethylbenzene	20	0	19.2	96.2	(79-121)
Hexachlorobutadiene	20	0	20.5	103	(66-134)
2-Hexanone	100	0	107	107	(57-139)
Isopropylbenzene	20	0	21.3	107	(72-131)
p-Isopropyltoluene	20	0	21.7	108	(77-127)
Methyl t-Butyl Ether	20	0	19.6	98	(71-124)
4-Methyl-2-Pentanone(MIBK)	100	0	108	108	(67-130)
Methylene Chloride	20	0	20.9	104	(74-124)
Naphthalene	20	0	14.1	70.5	(61-128)
n-Propylbenzene	20	0	21.8	109	(76-126)
Styrene	20	0	21.1	106	(78-123)
1,1,1,2-Tetrachloroethane	20	0	20.0	99.8	(78-124)
1,1,2,2-Tetrachloroethane	20	0	20.1	100	(71-121)
Tetrachloroethene	20	0	22.5	112	(74-129)
Toluene	20	0	20.3	101	(80-121)
TOTAL XYLENES	60	0	58.8	98	(79-121)
1,2,3-Trichlorobenzene	20	0	17.3	86.7	(69-129)
1,2,4-Trichlorobenzene	20	0	17.3	86.4	(69-130)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 65 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Matrix Spike - Sample No: FTMM-64-GW-81...MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC#	QC LIMIT REC
1,1,1-Trichloroethane	20	0	21.1	105	(74-131)
1,1,2-Trichloroethane	20	0	19.2	96	(80-119)
Trichloroethene	20	0	20.3	101	(79-123)
Trichlorofluoromethane	20	0	20.0	100	(65-141)
1,2,3-Trichloropropane	20	0	19.7	98.7	(73-122)
1,2,4-Trimethylbenzene	20	0	22.0	110	(76-124)
1,3,5-Trimethylbenzene	20	0	22.6	113	(75-124)
Vinyl Chloride	20	0	19.3	96.3	(58-137)
o-Xylene	20	0	19.6	97.8	(78-122)
mp-Xylene	40	0	39.3	98.2	(80-121)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 65 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Matrix Spike - Sample No: FTMM-64-GW-8...MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	MSD % RPD #	QC LIMITS RPD	QC LIMITS REC
Acetone	100	111	111	3.78	30	(39-160)
Benzene	20	20.6	103	.2	30	(79-120)
Bromobenzene	20	19.3	96.3	1.46	30	(80-120)
Bromochloromethane	20	20.3	101	2.4	30	(78-123)
Bromodichloromethane	20	20.1	100	2.3	30	(79-125)
Bromoform	20	15.8	79.2	1.66	30	(66-130)
Bromomethane	20	20.3	101	10.8	30	(53-141)
2-Butanone	100	108	108	2.55	30	(56-143)
tert.- Butyl Alcohol	100	116	116	8.29	30	(68-129)
tert-Butylbenzene	20	21.0	105	.24	30	(78-124)
n-Butylbenzene	20	20.6	103	2.78	30	(75-128)
sec-Butylbenzene	20	22.1	110	.96	30	(77-126)
Carbon Tetrachloride	20	20.7	104	.97	30	(72-136)
Chlorobenzene	20	18.2	90.9	1.03	30	(82-118)
Chlorodibromomethane	20	17.3	86.4	3.88	30	(74-126)
Chloroethane	20	22.2	111	8.15	30	(60-138)
Chloroform	20	20.7	103	2.37	30	(79-124)
Chloromethane	20	21.8	109	10.7	30	(50-139)
o-Chlorotoluene	20	21.2	106	.66	30	(79-122)
p-Chlorotoluene	20	21.0	105	.12	30	(78-122)
1,2-Dibromo-3-chloropropane	20	19.0	95.2	.19	30	(62-128)
1,2-Dibromoethane	20	18.5	92.5	.69	30	(77-121)
1,2-Dichlorobenzene	20	21.0	105	.04	30	(80-119)
1,3-Dichlorobenzene	20	20.8	104	1.3	30	(80-119)
1,4-Dichlorobenzene	20	21.2	106	.65	30	(79-118)
Dichlorodifluoromethane	20	18.7	93.3	15.4	30	(32-152)
1,1-Dichloroethane	20	21.0	105	.65	30	(77-125)
1,2-Dichloroethane	20	20.7	103	.15	30	(73-128)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 65 outside limits

Spike Recovery: 0 out of 65 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Matrix Spike - Sample No: FTMM-64-GW-8...MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	MSD % RPD #	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	20	21.8	109	.53	30	(71-131)
cis-1,2-Dichloroethene	20	20.7	104	1.94	30	(78-123)
trans-1,2-Dichloroethene	20	21.6	108	.61	30	(75-124)
2,2-Dichloropropane	20	16.9	84.5	.92	30	(60-139)
1,3-Dichloropropane	20	18.8	93.9	.9	30	(80-119)
1,2-Dichloropropane	20	21.2	106	.75	30	(78-122)
1,1-Dichloropropene	20	22.4	112	.19	30	(79-125)
cis-1,3-Dichloropropene	20	17.6	87.8	2.54	30	(75-124)
trans-1,3-Dichloropropene	20	19.1	95.4	2.51	30	(73-127)
Ethylbenzene	20	18.7	93.5	2.86	30	(79-121)
Hexachlorobutadiene	20	21.4	107	4.33	30	(66-134)
2-Hexanone	100	108	108	.82	30	(57-139)
Isopropylbenzene	20	21.3	107	.01	30	(72-131)
p-Isopropyltoluene	20	21.4	107	1.55	30	(77-127)
Methyl t-Butyl Ether	20	20.1	101	2.49	30	(71-124)
4-Methyl-2-Pentanone(MIBK)	100	109	109	.59	30	(67-130)
Methylene Chloride	20	20.6	103	1.52	30	(74-124)
Naphthalene	20	15.5	77.5	9.39	30	(61-128)
n-Propylbenzene	20	21.4	107	1.93	30	(76-126)
Styrene	20	21.3	106	.69	30	(78-123)
1,1,1,2-Tetrachloroethane	20	19.6	97.8	2.08	30	(78-124)
1,1,2,2-Tetrachloroethane	20	20.1	101	.24	30	(71-121)
Tetrachloroethene	20	22.6	113	.37	30	(74-129)
Toluene	20	19.8	99.2	2.25	30	(80-121)
TOTAL XYLENES	60	58.1	96.8	1.25	30	(79-121)
1,2,3-Trichlorobenzene	20	17.9	89.7	3.35	30	(69-129)
1,2,4-Trichlorobenzene	20	18.6	93.2	7.56	30	(69-130)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 65 outside limits

Spike Recovery: 0 out of 65 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Matrix Spike - Sample No: FTMM-64-GW-8...MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	MSD % RPD #	QC LIMITS RPD	QC LIMITS REC
1,1,1-Trichloroethane	20	21.0	105	.21	30	(74-131)
1,1,2-Trichloroethane	20	18.8	93.9	2.29	30	(80-119)
Trichloroethene	20	20.1	101	.86	30	(79-123)
Trichlorofluoromethane	20	21.7	108	7.83	30	(65-141)
1,2,3-Trichloropropane	20	19.7	98.6	.16	30	(73-122)
1,2,4-Trimethylbenzene	20	21.9	109	.69	30	(76-124)
1,3,5-Trimethylbenzene	20	22.2	111	1.91	30	(75-124)
Vinyl Chloride	20	21.2	106	9.48	30	(58-137)
o-Xylene	20	19.5	97.4	.42	30	(78-122)
mp-Xylene	40	38.6	96.5	1.67	30	(80-121)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 65 outside limits

Spike Recovery: 0 out of 65 outside limits

Comments:

Form III VOA-1 8260B

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.
2429301

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG NO.: PQF-048

Lab File ID: 316102554.D Lab Sample ID: 2429301

Date Analyzed: 10/25/2016 Time Analyzed: 23:06

GC Column: RTXVRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: ms03.i

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
2429302(LCS)	2429302	316102555.D	23:28
FTMM-64-GW-812MW04-5	2184163001	316102567.D	03:51
FTMM-64-GW-812MW104-5	2184163002	316102568.D	04:13
FTMM-64-GW-81...MS	2429373	316102577.D	07:30
FTMM-64-GW-8...MSD	2429374	316102578.D	07:52
1801-1026160814	1801-1026160814	316102579.D	08:14

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG NO.: PQF-048

Lab File ID: 316102450.D BFB Injection Date: 10/24/2016

Instrument ID: ms03.i BFB Injection Time: 22:18

GC Column: RTXVRX ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.5
75	30.0 - 60.0% of mass 95	52.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.3(0.4) 1
174	50.0 - 100.0% of mass 95	64.2
175	5.0 - 9.0% of mass 174	4.5 (7.0) 1
176	95.0 - 101.0% of mass 174	61.9 (96.5) 1
177	5.0 - 9.0% of mass 176	3.7 (6.0) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD00.5	VSTD00.5	316102453.D	10/24/2016	23:25
1234	1234	316102454.D	10/24/2016	23:46
1235	1235	316102455.D	10/25/2016	00:08
1236	1236	316102456.D	10/25/2016	00:30
1237	1237	316102457.D	10/25/2016	00:52
1238	1238	316102458.D	10/25/2016	01:14
1239	1239	316102459.D	10/25/2016	01:36
2428716(LCS)	2428716	316102464.D	10/25/2016	03:26
1801-1025160917	1801-1025160917	316102480.D	10/25/2016	09:17

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG NO.: PQF-048

Lab File ID: 316102550.D BFB Injection Date: 10/25/2016

Instrument ID: ms03.i BFB Injection Time: 20:46

GC Column: RTXVRX ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.3
75	30.0 - 60.0% of mass 95	55.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.3(0.5) 1
174	50.0 - 100.0% of mass 95	61.7
175	5.0 - 9.0% of mass 174	4.3 (7.0) 1
176	95.0 - 101.0% of mass 174	60.2 (97.5) 1
177	5.0 - 9.0% of mass 176	4.0 (6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1800	1800	316102551A.D	10/25/2016	21:59
2429301(MB)	2429301	316102554.D	10/25/2016	23:06
2429302(LCS)	2429302	316102555.D	10/25/2016	23:28
FTMM-64-GW-812MW04-5	2184163001	316102567.D	10/26/2016	03:51
FTMM-64-GW-812MW104-5	2184163002	316102568.D	10/26/2016	04:13
FTMM-64-GW-81...MS	2429373	316102577.D	10/26/2016	07:30
FTMM-64-GW-8...MSD	2429374	316102578.D	10/26/2016	07:52
1801-1026160814	1801-1026160814	316102579.D	10/26/2016	08:14

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS Global **Contract:**

Lab Code: VOA **Case No.:** **SAS No.:** **SDG No.:** PQF-048

Lab File ID: 316102457.D **Date Analyzed:** 10/25/2016

Instrument ID: ms03.i **Time Analyzed:** 00:52

GC Column: RTXVRX **ID:** 0.2 (mm) **Heated Purge: (Y/N)** N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	432864	5.760	273837	7.522	1013164	3.790
UPPER LIMIT	865728	6.260	547674	8.022	2026328	4.290
LOWER LIMIT	216432	5.260	136919	7.022	506582	3.290
SAMPLE NO.						
2428716(LCS)	459017	5.760	280924	7.517	1066160	3.790

IS1 = Chlorobenzene-d5
IS2 = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form VIII VOA-1 **8260B**

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Lab File ID: 316102551A.D Date Analyzed: 10/25/2016

Instrument ID: ms03.i Time Analyzed: 21:59

GC Column: RTXVRX ID: 0.2 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	432864	5.760	273837	7.522	1013164	3.790
UPPER LIMIT	865728	5.930	547674	7.692	2026328	3.960
LOWER LIMIT	216432	5.590	136919	7.352	506582	3.620
SAMPLE NO.						
1800	445064	5.760	273670	7.522	1042522	3.790
2429301(MB)	403549	5.760	228369	7.522	978119	3.790
2429302(LCS)	428277	5.760	257474	7.517	997116	3.790
FTMM-64-GW-812MW0	365370	5.760	196290	7.522	872655	3.790
FTMM-64-GW-812MW1	356428	5.760	194211	7.522	844147	3.790
FTMM-64-GW-81...M	386375	5.760	224546	7.517	864232	3.790
FTMM-64-GW-8...MS	404642	5.760	231644	7.517	893455	3.790

IS1 = Chlorobenzene-d5
IS2 = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form VIII VOA-1 8260B

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS Global **Contract:**

Lab Code: VOA **Case No.:** **SAS No.:** **SDG No.:** PQF-048

Lab File ID: 316102480.D **Date Analyzed:** 10/25/2016

Instrument ID: ms03.i **Time Analyzed:** 09:17

GC Column: RTXVRX **ID:** 0.2 (mm) **Heated Purge: (Y/N)** N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	432864	5.760	273837	7.522	1013164	3.790
UPPER LIMIT	865728	5.930	547674	7.692	2026328	3.960
LOWER LIMIT	216432	5.590	136919	7.352	506582	3.620
SAMPLE NO.						
1801-1025160917	428774	5.760	268130	7.522	995338	3.790

IS1 = Chlorobenzene-d5
IS2 = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form VIII VOA-1 8260B

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS Global **Contract:**

Lab Code: VOA **Case No.:** **SAS No.:** **SDG No.:** PQF-048

Lab File ID: 316102579.D **Date Analyzed:** 10/26/2016

Instrument ID: ms03.i **Time Analyzed:** 08:14

GC Column: RTXVRX **ID:** 0.2 (mm) **Heated Purge: (Y/N)** N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	432864	5.760	273837	7.517	1013164	3.790
UPPER LIMIT	865728	5.930	547674	7.687	2026328	3.960
LOWER LIMIT	216432	5.590	136919	7.347	506582	3.620
SAMPLE NO.						
1801-1026160814	406785	5.760	246810	7.517	926861	3.790

IS1 = Chlorobenzene-d5
IS2 = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form VIII VOA-1 8260B

Volatile Organics by 8260 Raw Data

Sample Raw Data

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
FTMM-64-GW-812MW04-5

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Matrix (soil/water): WATER Lab Sample ID: 2184163001

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 316102567.D

Level (low/med): Date Received: 10/21/16

% Moisture: not dec. 100.0 Date Analyzed: 10/26/16

GC Column: RTXVRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
67-64-1	Acetone	3.8	U
71-43-2	Benzene	0.75	U
108-86-1	Bromobenzene	0.75	U
74-97-5	Bromochloromethane	0.75	U
75-27-4	Bromodichloromethane	0.75	U
75-25-2	Bromoform	0.75	U
74-83-9	Bromomethane	0.75	U
78-93-3	2-Butanone	3.8	U
75-65-0	tert.- Butyl Alcohol	12.5	U
98-06-6	tert-Butylbenzene	0.75	U
104-51-8	n-Butylbenzene	0.75	U
135-98-8	sec-Butylbenzene	0.75	U
56-23-5	Carbon Tetrachloride	0.75	U
108-90-7	Chlorobenzene	0.75	U
124-48-1	Chlorodibromomethane	0.75	U
75-00-3	Chloroethane	0.75	U
67-66-3	Chloroform	0.75	U
74-87-3	Chloromethane	0.75	U
95-49-8	o-Chlorotoluene	0.75	U
106-43-4	p-Chlorotoluene	0.75	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.5	U
106-93-4	1,2-Dibromoethane	0.75	U
95-50-1	1,2-Dichlorobenzene	0.75	U
541-73-1	1,3-Dichlorobenzene	0.75	U
106-46-7	1,4-Dichlorobenzene	0.75	U
75-71-8	Dichlorodifluoromethane	0.75	U
75-34-3	1,1-Dichloroethane	0.75	U
107-06-2	1,2-Dichloroethane	0.75	U
75-35-4	1,1-Dichloroethene	0.75	U
156-59-2	cis-1,2-Dichloroethene	0.75	U
156-60-5	trans-1,2-Dichloroethene	0.75	U
594-20-7	2,2-Dichloropropane	0.75	U
142-28-9	1,3-Dichloropropane	0.75	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FTMM-64-GW-812MW04-5

Lab Name: ALS Global **Contract:**

Lab Code: VOA **Case No.:** **SAS No.:** **SDG No.:** PQF-048

Matrix (soil/water): WATER **Lab Sample ID:** 2184163001

Sample wt/vol: 5.00 (g/mL) ML **Lab File ID:** 316102567.D

Level (low/med): **Date Received:** 10/21/16

% Moisture: not dec. 100.0 **Date Analyzed:** 10/26/16

GC Column: RTXVRX **ID:** 0.25 (mm) **Dilution Factor:** 1.0

Soil Extract Volume: (uL) **Soil Aliquot Volume:** (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
78-87-5	1,2-Dichloropropane	0.75	U
563-58-6	1,1-Dichloropropene	0.75	U
10061-01-5	cis-1,3-Dichloropropene	0.75	U
10061-02-6	trans-1,3-Dichloropropene	0.75	U
100-41-4	Ethylbenzene	0.75	U
87-68-3	Hexachlorobutadiene	0.75	U
591-78-6	2-Hexanone	3.8	U
98-82-8	Isopropylbenzene	0.75	U
99-87-6	p-Isopropyltoluene	0.75	U
1634-04-4	Methyl t-Butyl Ether	0.75	U
108-10-1	4-Methyl-2-Pentanone(MIBK)	3.8	U
75-09-2	Methylene Chloride	0.75	U
91-20-3	Naphthalene	0.75	U
103-65-1	n-Propylbenzene	0.75	U
100-42-5	Styrene	0.75	U
630-20-6	1,1,1,2-Tetrachloroethane	0.75	U
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U
127-18-4	Tetrachloroethene	0.75	U
108-88-3	Toluene	0.75	U
1330-20-7	Total Xylenes	2.3	U
87-61-6	1,2,3-Trichlorobenzene	0.75	U
120-82-1	1,2,4-Trichlorobenzene	0.75	U
71-55-6	1,1,1-Trichloroethane	0.75	U
79-00-5	1,1,2-Trichloroethane	0.75	U
79-01-6	Trichloroethene	0.75	U
75-69-4	Trichlorofluoromethane	0.75	U
96-18-4	1,2,3-Trichloropropane	2.5	U
95-63-6	1,2,4-Trimethylbenzene	0.75	U
108-67-8	1,3,5-Trimethylbenzene	0.75	U
75-01-4	Vinyl Chloride	0.75	U
95-47-6	o-Xylene	0.75	U
108383/106423	mp-Xylene	1.5	U

Data File: 316102567.D Page 1
Report Date: 26-Oct-2016 10:58

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\31610256
Lab Smp Id: 2184163001 Client Smp ID: FTMM-64-GW-812MW04-
Inj Date : 26-OCT-2016 03:51
Operator : CJG Inst ID: ms03.i
Smp Info : 2184163001;;1;;;;;
Misc Info : ZZ VOMS 41258 D8260W
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b0
Meth Date : 26-Oct-2016 10:26 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	2.333	2.333	(0.616)	1893	8.03108	8.03108(a)	
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 316102567.D Page 2
Report Date: 26-Oct-2016 10:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.337	3.337	(0.881)	145209	25.2361	25.2361	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	3.637	3.637	(0.960)	225299	32.9166	32.9166	
	54 Isobutyl alcohol	43	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	3.790	3.790	(1.000)	872655	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	Compound Not Detected.						
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	64 1,4-Dioxane	88	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	4.723	4.723	(0.820)	615334	27.2602	27.2602	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	48	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						

Data File: 316102567.D Page 3
Report Date: 26-Oct-2016 10:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
74 Tetrachloroethene	164	Compound Not Detected.						
76 Ethyl methacrylate	69	Compound Not Detected.						
77 1,1,2-Trichloroethane	83	Compound Not Detected.						
78 Chlorodibromomethane	129	Compound Not Detected.						
79 1,3-Dichloropropane	76	Compound Not Detected.						
80 1,2-Dibromoethane	107	Compound Not Detected.						
81 2-Hexanone	43	Compound Not Detected.						
82 1-Chlorohexane	91	Compound Not Detected.						
* 83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	365370	30.0000		
85 Ethylbenzene	106	Compound Not Detected.						
84 Chlorobenzene	112	Compound Not Detected.						
86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
87 mp-Xylene	106	Compound Not Detected.						
M 120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
88 o-Xylene	106	Compound Not Detected.						
89 Styrene	104	Compound Not Detected.						
90 Bromoform	173	Compound Not Detected.						
91 Isopropylbenzene	105	Compound Not Detected.						
$ 92 4-Bromofluorobenzene	174	6.649	6.649	(0.884)	115382	28.4007	28.4007	
M 121 TOTAL XYLENES	106	Compound Not Detected.						
94 n-Propylbenzene	120	Compound Not Detected.						
93 Bromobenzene	156	Compound Not Detected.						
95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
96 o-Chlorotoluene	91	Compound Not Detected.						
98 1,2,3-Trichloropropane	110	Compound Not Detected.						
99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
101 p-Chlorotoluene	91	Compound Not Detected.						
102 tert-Butylbenzene	134	Compound Not Detected.						
103 Pentachloroethane	117	Compound Not Detected.						
104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
105 sec-Butylbenzene	105	Compound Not Detected.						
106 p-Isopropyltoluene	134	Compound Not Detected.						
107 1,3-Dichlorobenzene	146	Compound Not Detected.						
* 108 1,4-Dichlorobenzene-d4	152	7.522	7.522	(1.000)	196290	30.0000		
109 1,4-Dichlorobenzene	146	Compound Not Detected.						
111 n-Butylbenzene	134	Compound Not Detected.						
110 Benzyl Chloride	126	Compound Not Detected.						
112 Hexachloroethane	117	Compound Not Detected.						
113 1,2-Dichlorobenzene	146	Compound Not Detected.						
114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
115 Nitrobenzene	77	Compound Not Detected.						
116 Hexachlorobutadiene	225	Compound Not Detected.						
117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
118 Naphthalene	128	Compound Not Detected.						
119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: 316102567.D Page 4
Report Date: 26-Oct-2016 10:58

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i
Lab File ID: 316102567.D
Lab Smp Id: 2184163001
Analysis Type: VOA
Quant Type: ISTD
Operator: CJG
Calibration Date: 25-OCT-2016
Calibration Time: 21:59
Client Smp ID: FTMM-64-GW-812M
Level: LOW
Sample Type: WATER
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b
Misc Info: ZZ VOMS 41258 D8260W

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	872655	-13.87
83 Chlorobenzene-d5	432864	216432	865728	365370	-15.59
108 1,4-Dichlorobenze	273837	136919	547674	196290	-28.32

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102567.D Page 5
Report Date: 26-Oct-2016 10:58

ALS Environmental Services

RECOVERY REPORT

Client Name: Parsons - Boston MA Client SDG: PQF048|FTMM PARCEL
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 2184163001 Client Smp ID: FTMM-64-GW-812MW04-
Level: LOW Operator: CJG
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: WATERQC2006.spk Quant Type: ISTD
Sublist File: DODall.sub
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b
Misc Info: ZZ VOMS 41258 D8260W

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 41 Dibromofluorometha	30.0000	25.2361	84.12	80-119
$ 51 1,2-Dichloroethane	30.0000	32.9166	109.72	81-118
$ 68 Toluene-d8	30.0000	27.2602	90.87	89-112
$ 92 4-Bromofluorobenze	30.0000	28.4007	94.67	85-114

Data File: 316102567.D Page 6
Report Date: 26-Oct-2016 10:58

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Parsons - Boston MA
Lab Smp Id: 2184163001
Sample Location:
Sample Date: 20-OCT-2016
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41258 D8260W

Client SDG: PQF048|FTMM PARCEL
Client Smp ID: FTMM-64-GW-812MW04-
Sample Point:
Date Received: 21-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: CJG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
67-63-0	Isopropyl Alcohol	8.03108	J
1868-53-7	Dibromofluoromethane	25.2361	
17060-07-0	1,2-Dichloroethane-d4	32.9166	
2037-26-5	Toluene-d8	27.2602	
460-00-4	4-Bromofluorobenzene	28.4007	

Data File: 316102567.D Page 7
Report Date: 26-Oct-2016 10:58

ALS Environmental Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Parsons - Boston MA
Lab Smp Id: 2184163001
Operator : CJG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 26-OCT-2016 03:51

Client SDG: PQF048|FTMM PARCEL
Client Smp ID: FTMM-64-GW-812MW04-
Sample Date: 20-OCT-2016
Sample Point:
Date Received:21-OCT-2016 00:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102567.D

Page 8

Date : 26-OCT-2016 03:51

Client ID: FTMM-64-GW-812MW04-

Instrument: ms03.i

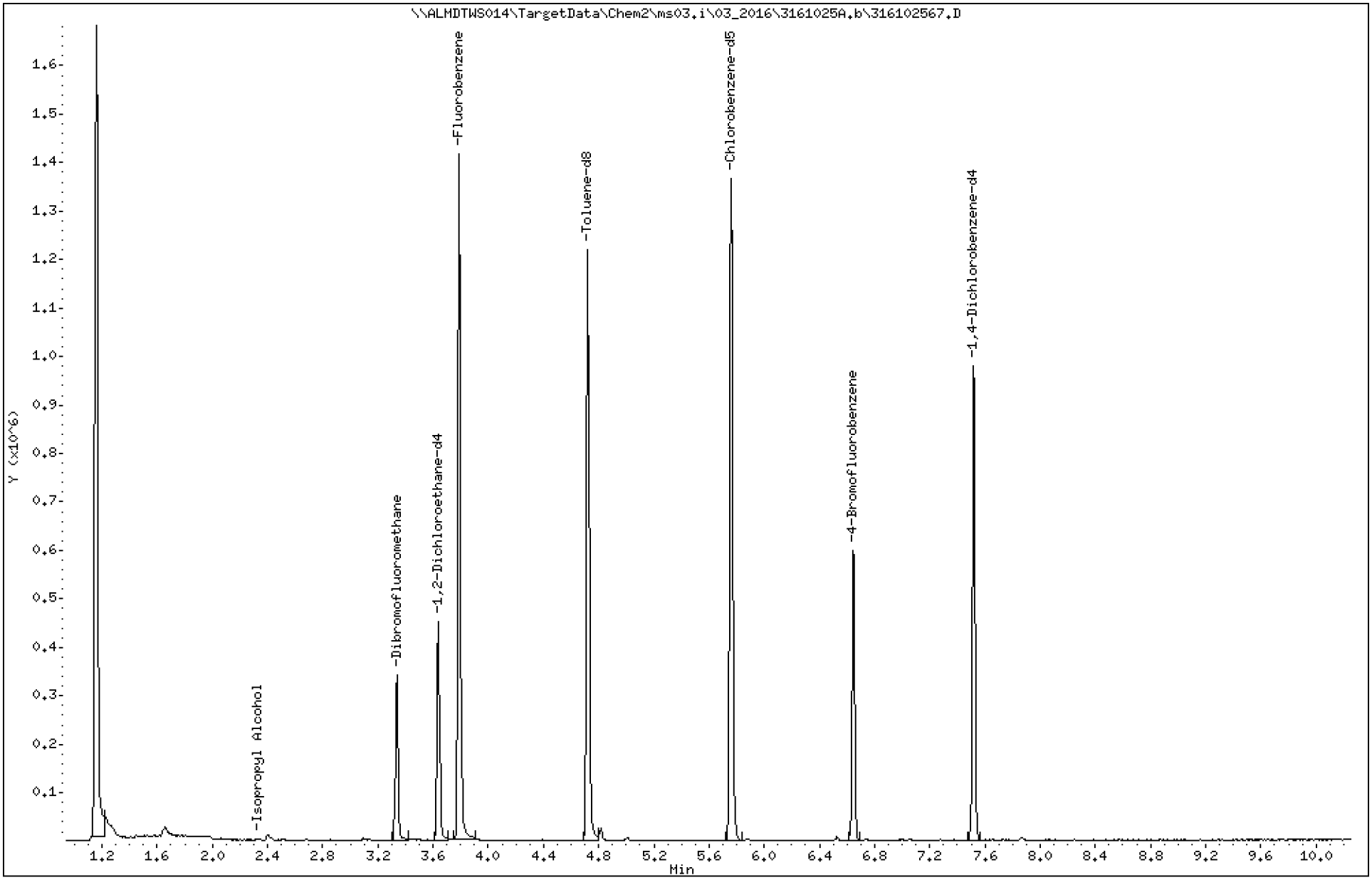
Sample Info: 2184163001::1:::::

Purge Volume: 5.0

Operator: CJG

Column phase: DB-VRX

Column diameter: 0.25



Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102567.D Page 9

Date : 26-OCT-2016 03:51

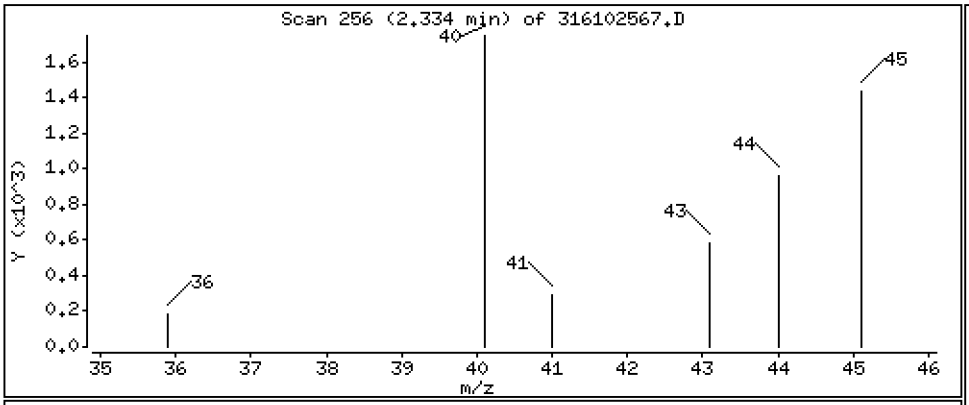
Client ID: FTMM-64-GW-812MW04- Instrument: ms03.i

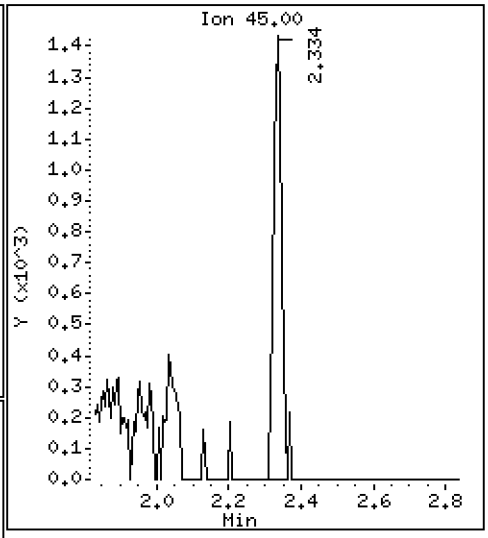
Sample Info: 2184163001;;1;;;;;

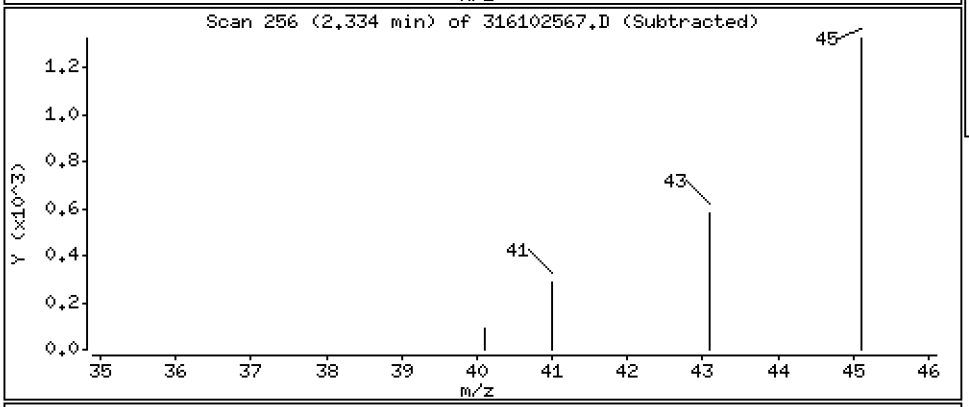
Purge Volume: 5.0 Operator: CJG

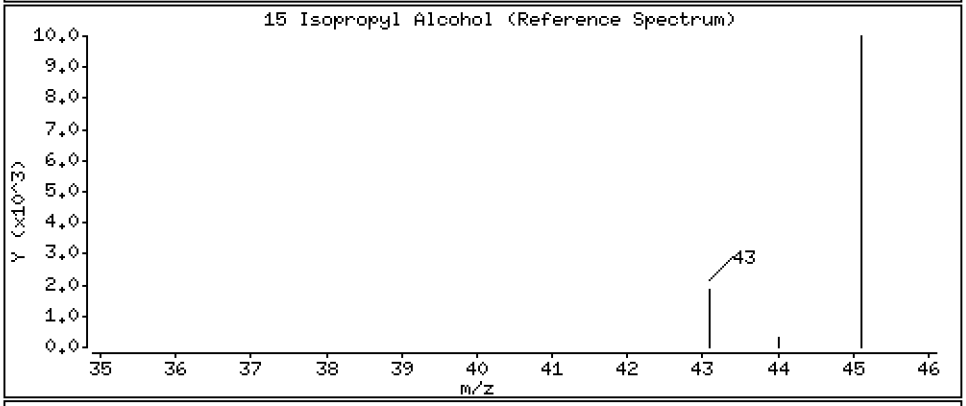
Column phase: DB-VRX Column diameter: 0.25

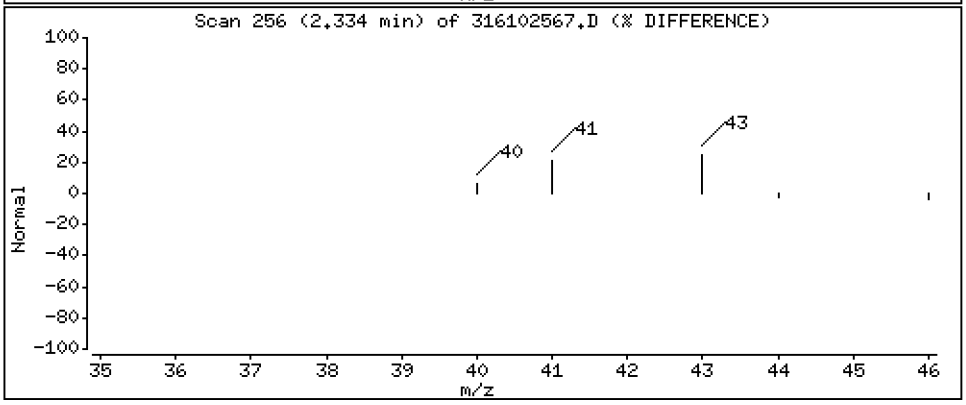
15 Isopropyl Alcohol Concentration: 8.03108 ug/L











MANUAL INTEGRATION REPORT

Report Date: 10/26/2016 10:58
Lab Sample ID: 2184163001 Client ID: FTMM-64-GW-812MW04-
DataFile:/Chem2/ms03.i/03_2016/3161025A.b/316102567.D
RawFile:/Chem2/ms03.i/03_2016/3161025A.b/RawData/316102567.D
Injection Date: 26-OCT-2016 03:51 Operator: CJG
There were no manual integrations performed on this sample!

UNASSIGNED PEAK REPORT

Report Date: 10/26/2016 10:58
Lab Sample ID: 2184163001 Client ID: FTMM-64-GW-812MW04-
DataFile:/Chem2/ms03.i/03_2016/3161025A.b/316102567.D
RawFile:/Chem2/ms03.i/03_2016/3161025A.b/RawData/316102567.D
Injection Date: 26-OCT-2016 03:51 Operator: CJG
The following compounds were Unassigned:

Chloromethane
Methylene Chloride
Heptane
1,4-Dioxane
2-Nitropropane
Bromomethane
2-Butanone
1,2-Dichloroethane
Chloroacetonitrile

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FTMM-64-GW-812MW104-5

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Matrix (soil/water): WATER Lab Sample ID: 2184163002

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 316102568.D

Level (low/med): Date Received: 10/21/16

% Moisture: not dec. 100.0 Date Analyzed: 10/26/16

GC Column: RTXVRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
67-64-1	Acetone	3.8	U
71-43-2	Benzene	0.75	U
108-86-1	Bromobenzene	0.75	U
74-97-5	Bromochloromethane	0.75	U
75-27-4	Bromodichloromethane	0.75	U
75-25-2	Bromoform	0.75	U
74-83-9	Bromomethane	0.75	U
78-93-3	2-Butanone	3.8	U
75-65-0	tert.- Butyl Alcohol	12.5	U
98-06-6	tert-Butylbenzene	0.75	U
104-51-8	n-Butylbenzene	0.75	U
135-98-8	sec-Butylbenzene	0.75	U
56-23-5	Carbon Tetrachloride	0.75	U
108-90-7	Chlorobenzene	0.75	U
124-48-1	Chlorodibromomethane	0.75	U
75-00-3	Chloroethane	0.75	U
67-66-3	Chloroform	0.75	U
74-87-3	Chloromethane	0.75	U
95-49-8	o-Chlorotoluene	0.75	U
106-43-4	p-Chlorotoluene	0.75	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.5	U
106-93-4	1,2-Dibromoethane	0.75	U
95-50-1	1,2-Dichlorobenzene	0.75	U
541-73-1	1,3-Dichlorobenzene	0.75	U
106-46-7	1,4-Dichlorobenzene	0.75	U
75-71-8	Dichlorodifluoromethane	0.75	U
75-34-3	1,1-Dichloroethane	0.75	U
107-06-2	1,2-Dichloroethane	0.75	U
75-35-4	1,1-Dichloroethene	0.75	U
156-59-2	cis-1,2-Dichloroethene	0.75	U
156-60-5	trans-1,2-Dichloroethene	0.75	U
594-20-7	2,2-Dichloropropane	0.75	U
142-28-9	1,3-Dichloropropane	0.75	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FTMM-64-GW-812MW104-5

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Matrix (soil/water): WATER Lab Sample ID: 2184163002

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 316102568.D

Level (low/med): Date Received: 10/21/16

% Moisture: not dec. 100.0 Date Analyzed: 10/26/16

GC Column: RTXVRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
78-87-5	1,2-Dichloropropane	0.75	U
563-58-6	1,1-Dichloropropene	0.75	U
10061-01-5	cis-1,3-Dichloropropene	0.75	U
10061-02-6	trans-1,3-Dichloropropene	0.75	U
100-41-4	Ethylbenzene	0.75	U
87-68-3	Hexachlorobutadiene	0.75	U
591-78-6	2-Hexanone	3.8	U
98-82-8	Isopropylbenzene	0.75	U
99-87-6	p-Isopropyltoluene	0.75	U
1634-04-4	Methyl t-Butyl Ether	0.75	U
108-10-1	4-Methyl-2-Pentanone(MIBK)	3.8	U
75-09-2	Methylene Chloride	0.75	U
91-20-3	Naphthalene	0.75	U
103-65-1	n-Propylbenzene	0.75	U
100-42-5	Styrene	0.75	U
630-20-6	1,1,1,2-Tetrachloroethane	0.75	U
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U
127-18-4	Tetrachloroethene	0.75	U
108-88-3	Toluene	0.75	U
1330-20-7	Total Xylenes	2.3	U
87-61-6	1,2,3-Trichlorobenzene	0.75	U
120-82-1	1,2,4-Trichlorobenzene	0.75	U
71-55-6	1,1,1-Trichloroethane	0.75	U
79-00-5	1,1,2-Trichloroethane	0.75	U
79-01-6	Trichloroethene	0.75	U
75-69-4	Trichlorofluoromethane	0.75	U
96-18-4	1,2,3-Trichloropropane	2.5	U
95-63-6	1,2,4-Trimethylbenzene	0.75	U
108-67-8	1,3,5-Trimethylbenzene	0.75	U
75-01-4	Vinyl Chloride	0.76	J
95-47-6	o-Xylene	0.75	U
108383/106423	mp-Xylene	1.5	U

Data File: 316102568.D Page 1
Report Date: 26-Oct-2016 10:58

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\31610256
Lab Smp Id: 2184163002 Client Smp ID: FTMM-64-GW-812MW104
Inj Date : 26-OCT-2016 04:13
Operator : CJG Inst ID: ms03.i
Smp Info : 2184163002;;1;;;;;
Misc Info : ZZ VOMS 41258 D8260W
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b0
Meth Date : 26-Oct-2016 10:26 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	1.444	1.444	(0.381)	7834	0.76297	0.762974(a)	
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	2.333	2.333	(0.616)	1812	7.94705	7.94705(a)	
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 316102568.D Page 2
Report Date: 26-Oct-2016 10:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.337	3.337	(0.881)	143842	25.8428	25.8428	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	3.637	3.637	(0.960)	221409	33.4407	33.4407	
	54 Isobutyl alcohol	43	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	3.790	3.790	(1.000)	844147	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	Compound Not Detected.						
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	64 1,4-Dioxane	88	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	4.723	4.723	(0.820)	607945	27.6070	27.6070	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	48	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						

Data File: 316102568.D Page 3
Report Date: 26-Oct-2016 10:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
74 Tetrachloroethene	164	Compound Not Detected.						
76 Ethyl methacrylate	69	Compound Not Detected.						
77 1,1,2-Trichloroethane	83	Compound Not Detected.						
78 Chlorodibromomethane	129	Compound Not Detected.						
79 1,3-Dichloropropane	76	Compound Not Detected.						
80 1,2-Dibromoethane	107	Compound Not Detected.						
81 2-Hexanone	43	Compound Not Detected.						
82 1-Chlorohexane	91	Compound Not Detected.						
* 83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	356428	30.0000		
85 Ethylbenzene	106	Compound Not Detected.						
84 Chlorobenzene	112	Compound Not Detected.						
86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
87 mp-Xylene	106	Compound Not Detected.						
M 120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
88 o-Xylene	106	Compound Not Detected.						
89 Styrene	104	Compound Not Detected.						
90 Bromoform	173	Compound Not Detected.						
91 Isopropylbenzene	105	Compound Not Detected.						
$ 92 4-Bromofluorobenzene	174	6.649	6.649	(0.884)	112631	28.0203	28.0203	
M 121 TOTAL XYLENES	106	Compound Not Detected.						
94 n-Propylbenzene	120	Compound Not Detected.						
93 Bromobenzene	156	Compound Not Detected.						
95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
96 o-Chlorotoluene	91	Compound Not Detected.						
98 1,2,3-Trichloropropane	110	Compound Not Detected.						
99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
101 p-Chlorotoluene	91	Compound Not Detected.						
102 tert-Butylbenzene	134	Compound Not Detected.						
103 Pentachloroethane	117	Compound Not Detected.						
104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
105 sec-Butylbenzene	105	Compound Not Detected.						
106 p-Isopropyltoluene	134	Compound Not Detected.						
107 1,3-Dichlorobenzene	146	Compound Not Detected.						
* 108 1,4-Dichlorobenzene-d4	152	7.522	7.522	(1.000)	194211	30.0000		
109 1,4-Dichlorobenzene	146	Compound Not Detected.						
111 n-Butylbenzene	134	Compound Not Detected.						
110 Benzyl Chloride	126	Compound Not Detected.						
112 Hexachloroethane	117	Compound Not Detected.						
113 1,2-Dichlorobenzene	146	Compound Not Detected.						
114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
115 Nitrobenzene	77	Compound Not Detected.						
116 Hexachlorobutadiene	225	Compound Not Detected.						
117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
118 Naphthalene	128	Compound Not Detected.						
119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: 316102568.D Page 4
Report Date: 26-Oct-2016 10:58

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i
Lab File ID: 316102568.D
Lab Smp Id: 2184163002
Analysis Type: VOA
Quant Type: ISTD
Operator: CJG
Calibration Date: 25-OCT-2016
Calibration Time: 21:59
Client Smp ID: FTMM-64-GW-812M
Level: LOW
Sample Type: WATER
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b
Misc Info: ZZ VOMS 41258 D8260W

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	844147	-16.68
83 Chlorobenzene-d5	432864	216432	865728	356428	-17.66
108 1,4-Dichlorobenze	273837	136919	547674	194211	-29.08

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102568.D Page 5
Report Date: 26-Oct-2016 10:58

ALS Environmental Services

RECOVERY REPORT

Client Name: Parsons - Boston MA Client SDG: PQF048|FTMM PARCEL
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 2184163002 Client Smp ID: FTMM-64-GW-812MW104
Level: LOW Operator: CJG
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: WATERQC2006.spk Quant Type: ISTD
Sublist File: DODall.sub
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b
Misc Info: ZZ VOMS 41258 D8260W

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 41 Dibromofluorometha	30.0000	25.8428	86.14	80-119
$ 51 1,2-Dichloroethane	30.0000	33.4407	111.47	81-118
$ 68 Toluene-d8	30.0000	27.6070	92.02	89-112
$ 92 4-Bromofluorobenze	30.0000	28.0203	93.40	85-114

Data File: 316102568.D Page 6
Report Date: 26-Oct-2016 10:58

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Parsons - Boston MA
Lab Smp Id: 2184163002
Sample Location:
Sample Date: 20-OCT-2016
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41258 D8260W

Client SDG: PQF048|FTMM PARCEL
Client Smp ID: FTMM-64-GW-812MW104
Sample Point:
Date Received: 21-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: CJG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-01-4	Vinyl Chloride	0.762974	J
67-63-0	Isopropyl Alcohol	7.94705	J
1868-53-7	Dibromofluoromethane	25.8428	
17060-07-0	1,2-Dichloroethane-d4	33.4407	
2037-26-5	Toluene-d8	27.6070	
460-00-4	4-Bromofluorobenzene	28.0203	

Data File: 316102568.D Page 7
Report Date: 26-Oct-2016 10:58

ALS Environmental Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Parsons - Boston MA
Lab Smp Id: 2184163002
Operator : CJG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 26-OCT-2016 04:13

Client SDG: PQF048|FTMM PARCEL
Client Smp ID: FTMM-64-GW-812MW104
Sample Date: 20-OCT-2016
Sample Point:
Date Received:21-OCT-2016 00:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102568.D

Date : 26-OCT-2016 04:13

Client ID: FTMM-64-GW-812MW104

Instrument: ms03.i

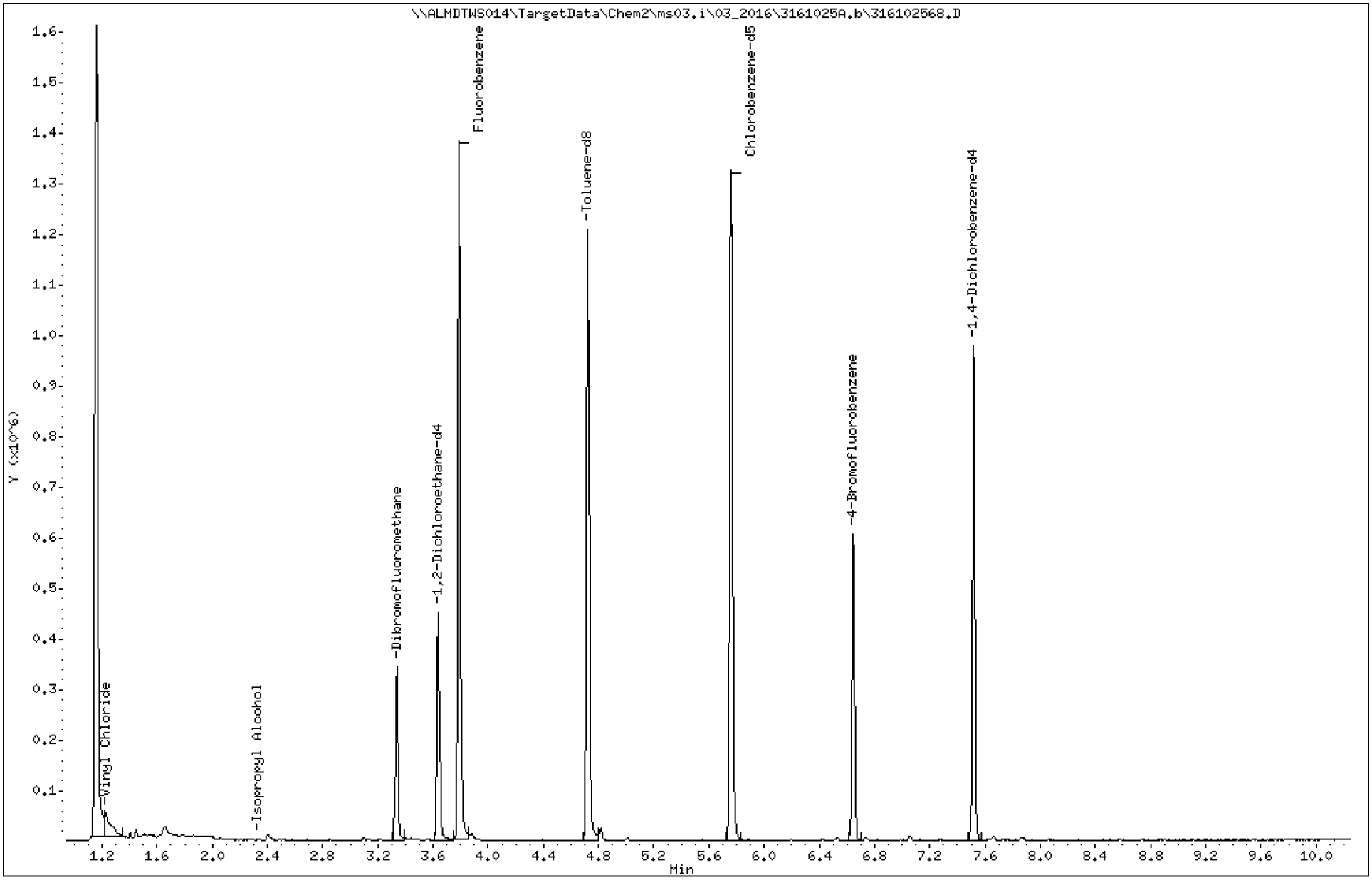
Sample Info: 2184163002::1:::::

Purge Volume: 5.0

Operator: CJG

Column phase: DB-VRX

Column diameter: 0.25



Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102568.D Page 9

Date : 26-OCT-2016 04:13

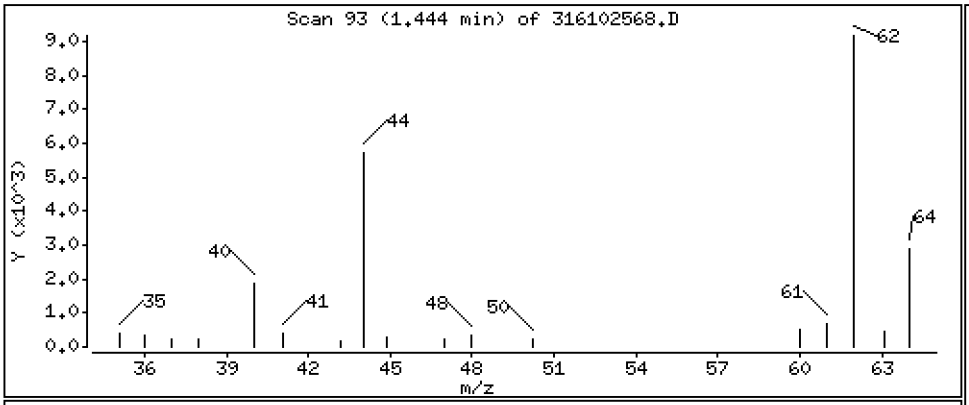
Client ID: FTMM-64-GW-812MW104 Instrument: ms03.i

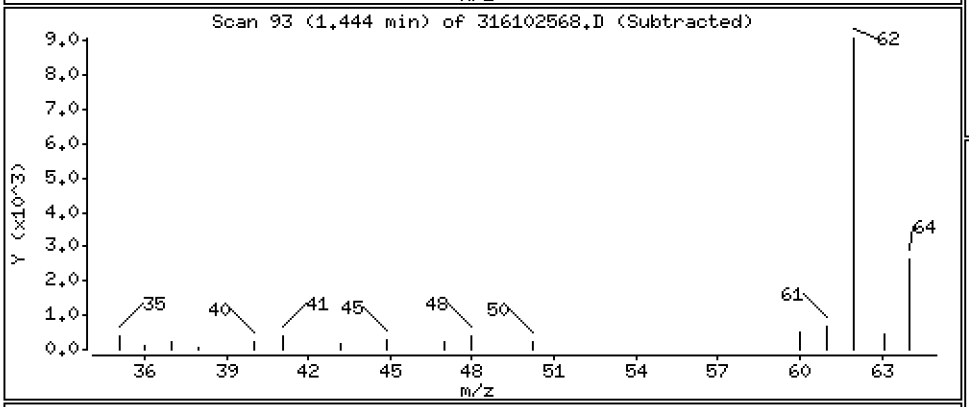
Sample Info: 2184163002;;1;;;;;

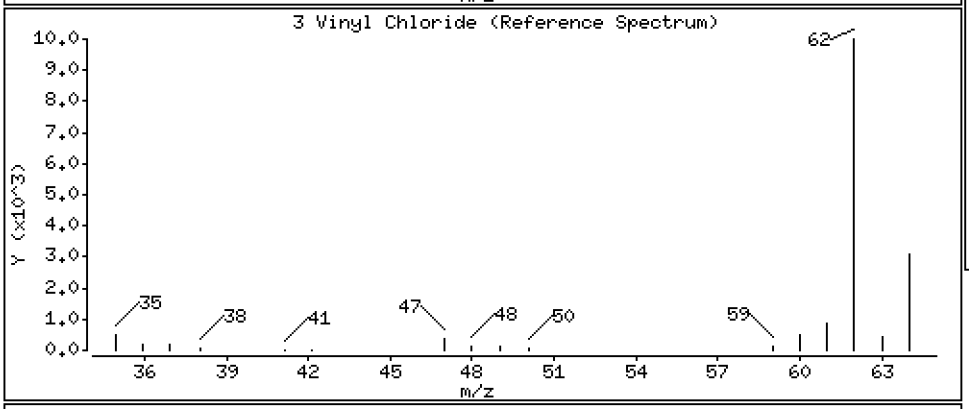
Purge Volume: 5.0 Operator: CJG

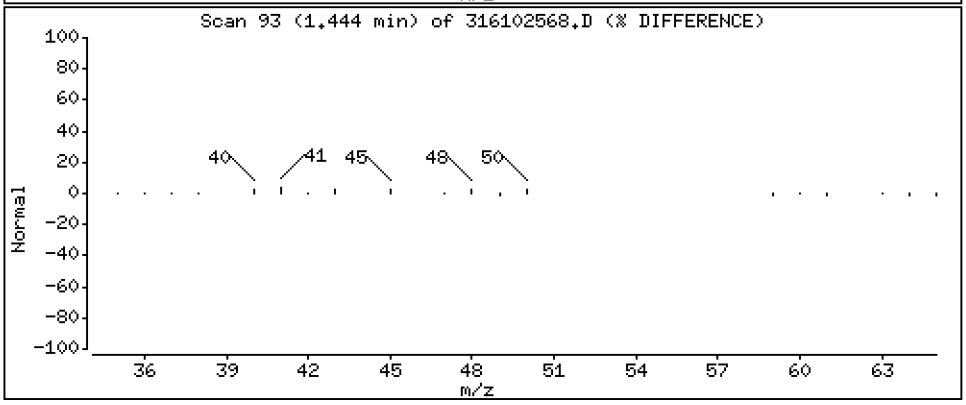
Column phase: DB-VRX Column diameter: 0.25

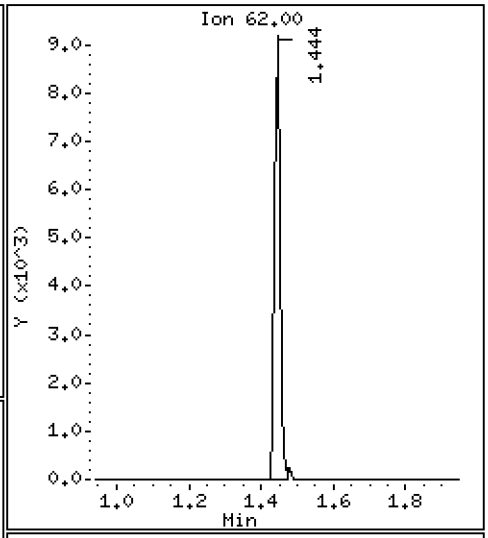
3 Vinyl Chloride Concentration: 0.762974 ug/L

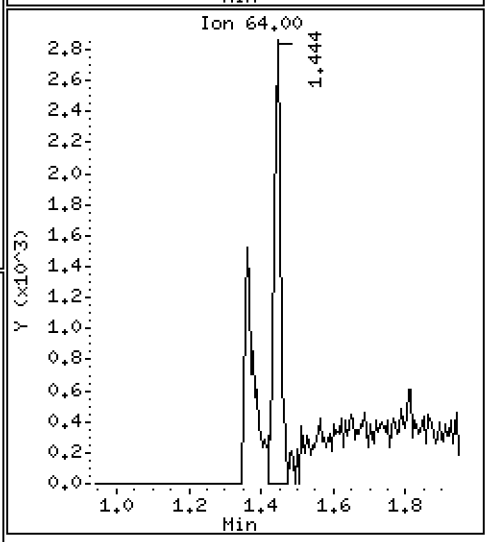












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102568.D Page 10

Date : 26-OCT-2016 04:13

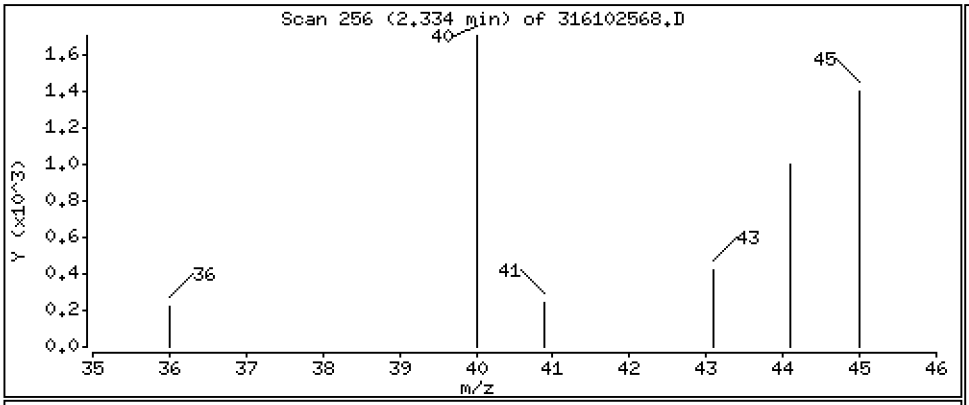
Client ID: FTMM-64-GW-812MW104 Instrument: ms03.i

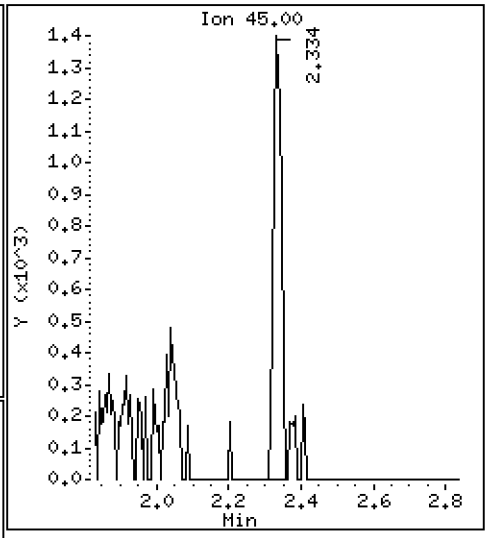
Sample Info: 2184163002;;1;;;;;

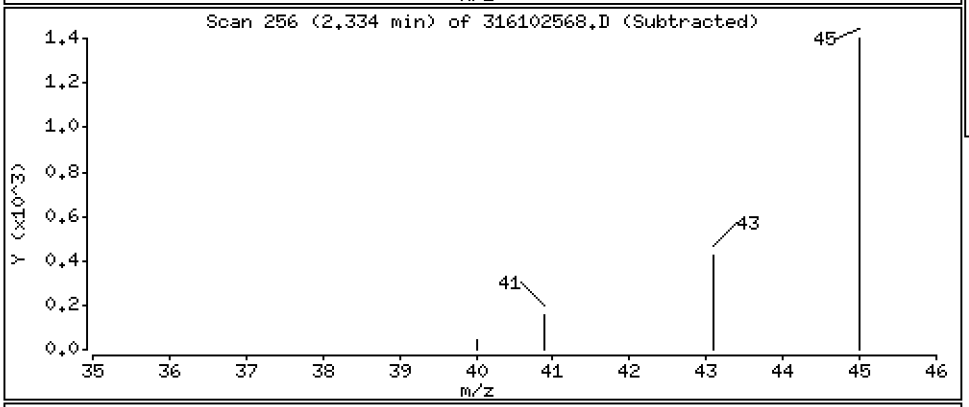
Purge Volume: 5.0 Operator: CJG

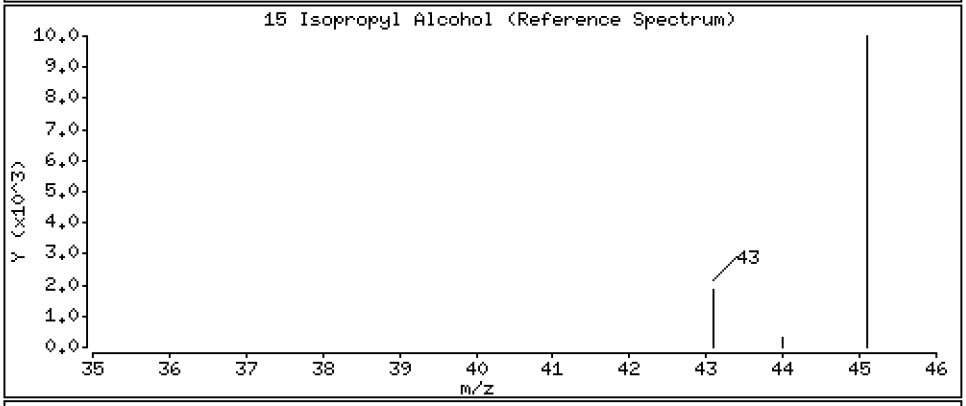
Column phase: DB-VRX Column diameter: 0.25

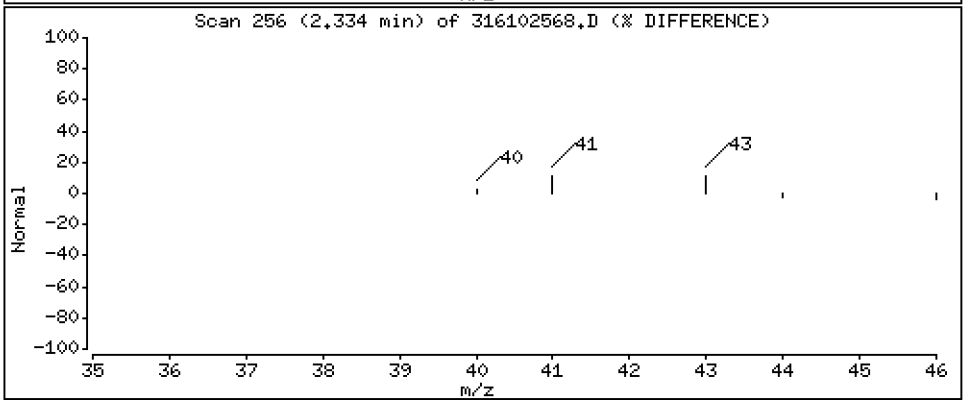
15 Isopropyl Alcohol Concentration: 7.94705 ug/L











MANUAL INTEGRATION REPORT

Report Date: 10/26/2016 10:58
Lab Sample ID: 2184163002 Client ID: FTMM-64-GW-812MW104
DataFile:/Chem2/ms03.i/03_2016/3161025A.b/316102568.D
RawFile:/Chem2/ms03.i/03_2016/3161025A.b/RawData/316102568.D
Injection Date: 26-OCT-2016 04:13 Operator: CJG
There were no manual integrations performed on this sample!

UNASSIGNED PEAK REPORT

Report Date: 10/26/2016 10:58
Lab Sample ID: 2184163002 Client ID: FTMM-64-GW-812MW104
DataFile:/Chem2/ms03.i/03_2016/3161025A.b/316102568.D
RawFile:/Chem2/ms03.i/03_2016/3161025A.b/RawData/316102568.D
Injection Date: 26-OCT-2016 04:13 Operator: CJG
The following compounds were Unassigned:

Chloromethane	Bromomethane
Pentane	Methylene Chloride
Heptane	Methacrylonitrile
1,2-Dichloroethane	1,4-Dioxane
Chloroacetonitrile	2-Nitropropane
1,3-Dichloropropane	1-Chlorohexane
1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene

Standards Raw Data

Initial Calibrations

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Global **SDG No.:** PQF-048

Instrument ID: ms03.i **Calibration Date(s):** 10/24/2016 10/25/2016

Heated Purge: (Y/N) N **Calibration Time(s):** 23:25 01:36

GC Column: RTXVRX **ID:** 0.25 (mm)

LAB FILE ID: RRF001 = 316102454.D RRF005 = 316102455.D RRF020 = 316102456.D RRF050 = 316102457.D
RRF100 = 316102458.D RRF200 = 316102459.D RRF00.5 = 316102453.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	CT
Acetone	0.02175	0.01965	0.01786	0.01862	0.01750	A
Acrolein	0.03705	0.03364	0.03339	0.03536	0.03547	A
Acrylonitrile	0.09628	0.08432	0.08254	0.08489	0.08486	A
Acetonitrile	4684	19368	72658	191016	378852	L
tert-Amyl Ethylether	0.47023	0.46718	0.48751	0.52438	0.55478	A
tert-Amyl methyl ether	0.53820	0.55398	0.55044	0.57646	0.59854	A
tert-Amyl Alcohol	1537	7326	31783	98439	213389	Q
Benzene	1.16651	1.11359	1.07153	1.02387	1.02033	A
Benzyl Chloride	644	3988	20954	75313	193855	Q
Bromobenzene	0.81241	0.76139	0.72397	0.68847	0.70420	A
Bromochloromethane	0.11393	0.09891	0.09904	0.09924	0.10251	A
Bromodichloromethane	0.24934	0.24945	0.26246	0.28238	0.29246	A
Bromoform *	1802	8896	42057	129434	304730	Q
Bromomethane	6707	20074	85332	214551	611189	Q
2-Butanone	0.02865	0.02920	0.02536	0.02873	0.02782	A
tert.- Butyl Alcohol	0.01234	0.01401	0.01164	0.01363	0.01416	A
tert-Butylbenzene	0.60924	0.61349	0.60415	0.55240	0.57375	A
n-Butylbenzene	0.51675	0.49271	0.54432	0.51873	0.55586	A
sec-Butylbenzene	3.23657	3.32780	3.40309	3.06982	3.18629	A
Carbon Disulfide	0.66525	0.58848	0.60135	0.60903	0.64594	A
Carbon Tetrachloride	0.24373	0.24850	0.24537	0.23630	0.24914	A
Chloroacetonitrile	518	3588	15902	48185	102739	Q
Chlorobenzene *	1.62281	1.49311	1.38610	1.33471	1.34965	A
1-Chlorobutane	10859	49665	189319	439659	920244	L
Chlorodibromomethane	0.31089	0.32819	0.36660	0.40005	0.42623	A
Chloroethane	17520	40365	156148	377249	805220	L
2-Chloroethylvinyl ether	2558	13233	68190	204686	453946	L
Chloroform **	23400	82953	304866	740177	1540194	Q
1-Chlorohexane	0.66649	0.69151	0.71264	0.66456	0.74299	A
Chloromethane *	24946	59314	229405	548264	1151305	Q
Chloroprene	0.36057	0.35214	0.36235	0.34710	0.35193	A
3-Chloro-1-propene	0.32823	0.30573	0.32380	0.31600	0.31394	A
o-Chlorotoluene	2.82264	2.96579	2.83081	2.63576	2.68191	A
p-Chlorotoluene	2.64512	2.66736	2.56792	2.41348	2.46647	A

CT Column contains the Calibration Type. A - Average Response Factor, L - Linear Regression, and Q - Quadratic.
SPCC Compounds (*) with required minimum RRF.
CCC Compounds (**) with required maximum %RSD.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Global **SDG No.:** PQF-048

Instrument ID: ms03.i **Calibration Date(s):** 10/24/2016 10/25/2016

Heated Purge: (Y/N) N **Calibration Time(s):** 23:25 01:36

GC Column: RTXVRX **ID:** 0.25 (mm)

LAB FILE ID: RRF001 = 316102454.D RRF005 = 316102455.D RRF020 = 316102456.D RRF050 = 316102457.D
RRF100 = 316102458.D RRF200 = 316102459.D RRF00.5 = 316102453.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	CT
Cyclohexane	0.43347	0.40248	0.38714	0.33740	0.35168	A
1,2-Dibromo-3-Chloropropane	553	3186	13909	43484	99214	Q
1,2-Dibromoethane	0.39514	0.39016	0.40537	0.40840	0.41291	A
Dibromomethane	0.12849	0.13037	0.12525	0.12836	0.13125	A
trans-1,4-Dichloro-2-butene	0.20121	0.19251	0.21594	0.22249	0.22799	A
1,2-Dichlorobenzene	10357	48183	190161	502959	1116181	Q
1,3-Dichlorobenzene	11834	56398	216121	551580	1242422	Q
1,4-Dichlorobenzene	12384	56880	217075	561432	1262196	Q
Dichlorodifluoromethane	28161	66929	256203	604509	1285315	Q
1,1-Dichloroethane *	0.52416	0.49600	0.46874	0.44966	0.44447	A
1,2-Dichloroethene, Total	0.39880	0.36906	0.35314	0.34062	0.34394	A
1,2-Dichloroethane	0.34720	0.32602	0.30668	0.30697	0.30445	A
1,1-Dichloroethene **	0.41487	0.37711	0.36211	0.34380	0.34573	A
cis-1,2-Dichloroethene	0.39580	0.36876	0.35244	0.34636	0.34514	A
trans-1,2-Dichloroethene	0.40181	0.36935	0.35384	0.33487	0.34274	A
Dichlorofluoromethane	0.61607	0.55624	0.51985	0.49175	0.49394	A
1,1-Dichloro-2-Propanone	298	2477	12224	36699	79599	Q
2,2-Dichloropropane	10360	47659	191410	485464	1064710	Q
1,3-Dichloropropane	0.94944	0.89018	0.84722	0.85592	0.83916	A
1,2-Dichloropropane **	0.27951	0.26524	0.26198	0.26349	0.26598	A
1,1-Dichloropropene	0.36909	0.36627	0.35150	0.32433	0.32723	A
cis-1,3-Dichloropropene	0.68326	0.70851	0.80078	0.86298	0.90630	A
trans-1,3-Dichloropropene	0.57047	0.63857	0.70183	0.75831	0.78936	A
1,3-Dichloropropene, Total	0.62687	0.67354	0.75131	0.81065	0.84783	A
Diisobutylene	60082	134530	469197	1002264	2188173	L
Diisopropyl ether	0.82228	0.79721	0.81459	0.84926	0.85000	A
1,4-Dioxane	0.00085	0.00094	0.00081	0.00099	0.00093	A
Ethyl Acetate	0.19137	0.19875	0.19660	0.22133	0.21670	A
Ethyl ether	0.20072	0.18158	0.16779	0.17322	0.16750	A
Ethyl Methacrylate	0.51692	0.55725	0.65091	0.70882	0.72371	A
Ethyl tert-butyl ether	0.67000	0.65363	0.68317	0.72985	0.75071	A
Ethylbenzene **	0.85964	0.82780	0.77321	0.73304	0.75107	A
Freon 113	0.25658	0.22412	0.20915	0.18165	0.18439	A
Heptane	0.17303	0.14977	0.17321	0.14398	0.15622	A

CT Column contains the Calibration Type. A - Average Response Factor, L - Linear Regression, and Q - Quadratic.
SPCC Compounds (*) with required minimum RRF.
CCC Compounds (**) with required maximum %RSD.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Global **SDG No.:** PQF-048

Instrument ID: ms03.i **Calibration Date(s):** 10/24/2016 10/25/2016

Heated Purge: (Y/N) N **Calibration Time(s):** 23:25 01:36

GC Column: RTXVRX **ID:** 0.25 (mm)

LAB FILE ID: RRF001 = 316102454.D RRF005 = 316102455.D RRF020 = 316102456.D RRF050 = 316102457.D
RRF100 = 316102458.D RRF200 = 316102459.D RRF00.5 = 316102453.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	CT
Hexachlorobutadiene	2803	9195	36231	91411	208989	Q
Hexachloroethane	0.38567	0.32974	0.33979	0.35532	0.40133	A
Hexane	0.56583	0.48930	0.52534	0.47313	0.48403	A
2-Hexanone	0.26549	0.27769	0.31515	0.34833	0.34148	A
Iodomethane	565	2578	19592	87895	235374	Q
Isobutyl alcohol	1844	8432	36016	105297	217197	Q
Isopropyl Alcohol	1714	6543	26915	71076	143587	L
Isopropylbenzene	3.62943	3.67994	3.62774	3.35092	3.42308	A
p-Isopropyltoluene	0.57719	0.60158	0.65129	0.61392	0.64755	A
Methyl acetate	0.04320	0.03815	0.03662	0.03846	0.03700	A
Methyl acrylate	0.20139	0.19205	0.20068	0.20771	0.20894	A
Methacrylonitrile	0.10169	0.09497	0.09580	0.09803	0.09587	A
Methyl cyclohexane	1.09975	0.97861	0.97804	0.83883	0.87973	A
Methyl methacrylate	0.16706	0.16259	0.17357	0.19853	0.20623	A
Methyl t-Butyl Ether	0.65173	0.59342	0.60228	0.63117	0.63432	A
4-Methyl-2-Pentanone(MIBK)	0.41184	0.46985	0.50385	0.53585	0.51909	A
Methylene Chloride	15500	49321	168953	411186	852055	Q
Naphthalene	3065	16327	101494	415226	995682	Q
Nitrobenzene		308	3117	19403	61429	L
2-Nitropropane	5124	24191	122115	396365	894738	Q
Octane	3273	15009	71922	161179	378288	L
Pentachloroethane	0.51243	0.47196	0.48253	0.47924	0.50187	A
Pentane	8829	40716	149216	326250	688898	L
n-Propanol	6529	28174	107988	270517	551945	L
Propionitrile	0.03441	0.03184	0.03115	0.03209	0.03071	A
n-Propylbenzene	0.92335	0.91780	0.93764	0.86157	0.88763	A
Styrene	2.09513	2.21890	2.26663	2.20601	2.25093	A
1,1,1,2-Tetrachloroethane	0.38204	0.39121	0.39199	0.39695	0.40968	A
1,1,2,2-Tetrachloroethane *	0.93957	0.87048	0.84649	0.83460	0.80913	A
Tetrachloroethene	6184	29126	106945	254146	546355	Q
Tetrahydrofuran	0.06718	0.06391	0.06298	0.06765	0.06541	A
Toluene **	1.47377	1.44639	1.42104	1.35212	1.34475	A
Total Xylenes	0.88263	0.91221	0.89232	0.87022	0.89702	A
1,2,3-Trichlorobenzene	0.29134	0.24171	0.27642	0.32091	0.32381	A

CT Column contains the Calibration Type. A - Average Response Factor, L - Linear Regression, and Q - Quadratic.
SPCC Compounds (*) with required minimum RRF.
CCC Compounds (**) with required maximum %RSD.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Global **SDG No.:** PQF-048

Instrument ID: ms03.i **Calibration Date(s):** 10/24/2016 10/25/2016

Heated Purge: (Y/N) N **Calibration Time(s):** 23:25 01:36

GC Column: RTXVRX **ID:** 0.25 (mm)

LAB FILE ID: RRF001 = 316102454.D RRF005 = 316102455.D RRF020 = 316102456.D RRF050 = 316102457.D
RRF100 = 316102458.D RRF200 = 316102459.D RRF00.5 = 316102453.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	CT
1,2,4-Trichlorobenzene	3676	15391	71562	216240	498925	Q
1,1,1-Trichloroethane	0.33801	0.33512	0.33447	0.31667	0.33190	A
1,1,2-Trichloroethane	0.44412	0.42456	0.40261	0.39604	0.38773	A
Trichloroethene	0.29045	0.25021	0.24506	0.22935	0.23524	A
Trichlorofluoromethane	32639	72659	282650	661336	1412223	L
1,2,3-Trichloropropane	0.31424	0.25793	0.25297	0.24268	0.23428	A
1,2,4-Trimethylbenzene	2.31518	2.70432	2.73151	2.56411	2.62840	A
1,3,5-Trimethylbenzene	2.41304	2.70472	2.78247	2.57745	2.63397	A
Vinyl Acetate	1086	6734	30464	84581	183691	L
Vinyl Chloride **	27881	65599	262777	622872	1323102	L
o-Xylene	0.78160	0.82160	0.82456	0.82972	0.86575	A
mp-Xylene	0.93315	0.95752	0.92621	0.89048	0.91265	A
4-Bromofluorobenzene	5671	23610	103913	273260	622168	L
Dibromofluoromethane	0.20636	0.18588	0.18488	0.18474	0.18984	A
1,2-Dichloroethane-d4	10444	42642	156092	432919	842996	L
Toluene-d8	29934	122700	521206	1337772	2897024	Q

CT Column contains the Calibration Type. A - Average Response Factor, L - Linear Regression, and Q - Quadratic.
SPCC Compounds (*) with required minimum RRF.
CCC Compounds (**) with required maximum %RSD.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Global SDG No.: PQF-048

Instrument ID: ms03.i Calibration Date(s): 10/24/2016 10/25/2016

Heated Purge: (Y/N) N Calibration Time(s): 23:25 01:36

GC Column: RTXVRX ID: 0.25 (mm)

LAB FILE ID: RRF001 = 316102454.D RRF005 = 316102455.D RRF020 = 316102456.D RRF050 = 316102457.D
RRF100 = 316102458.D RRF200 = 316102459.D RRF00.5 = 316102453.D

COMPOUND	RRF200	RRF00.5		CT	b	m1	m2	% RSD or R^2
Acetone	0.01725	0.02488		A		0.019640		14.15947
Acrolein	0.03621	0.03788		A		0.035570		4.65502
Acrylonitrile	0.08437	0.09030		A		0.086790		5.56184
Acetonitrile	765676	3235		L	0.000000	48.464882		0.99852
tert-Amyl Ethylether	0.57614	0.47698		A		0.508170		8.64268
tert-Amyl methyl ether	0.62233	0.55348		A		0.570490		5.31497
tert-Amyl Alcohol	520760	781		Q	0.000000	0.010370	0.000100	0.99985
Benzene	1.02168	1.26599		A		1.097640		8.41680
Benzyl Chloride	482251			Q	0.000000	0.153680	0.010980	0.99952
Bromobenzene	0.71012	0.93455		A		0.762160		11.38798
Bromochloromethane	0.09741	0.10564		A		0.102380		5.66360
Bromodichloromethane	0.30324	0.26109		A		0.271490		7.86025
Bromoform *	708243	833		Q	0.000000	0.274110	0.008810	0.99987
Bromomethane	1481026	3402		Q	-0.004250	0.133600	0.009630	0.99866
2-Butanone	0.02873	0.03063		A		0.028450		5.64286
tert.- Butyl Alcohol	0.01484	0.01511		A		0.013680		9.27295
tert-Butylbenzene	0.57439	0.69225		A		0.602810		7.52628
n-Butylbenzene	0.55878	0.72221		A		0.558480		13.60947
sec-Butylbenzene	3.10322	3.97372		A		3.328640		9.24512
Carbon Disulfide	0.65249	0.76142		A		0.646280		9.02288
Carbon Tetrachloride	0.26417	0.27916		A		0.252340		5.75303
Chloroacetonitrile				Q	0.000000	0.012670	0.000040	0.99932
Chlorobenzene *	1.39853	1.91050		A		1.499340		13.79897
1-Chlorobutane	1936940	6277		L	0.000000	3.878960		0.99976
Chlorodibromomethane	0.45463	0.32883		A		0.373630		14.69287
Chloroethane	1695539	5375		L	0.000000	4.438020		0.99987
2-Chloroethylvinyl ether	1004011	1173		L	0.000000	7.612020		0.99848
Chloroform **	3259733	16877		Q	0.013340	0.430610	-0.000030	0.99998
1-Chlorohexane	0.77956	0.84430		A		0.728860		8.99338
Chloromethane *	2361293	8143		Q	0.008550	0.328630	-0.002480	0.99994
Chloroprene	0.35630	0.41126		A		0.363090		6.02754
3-Chloro-1-propene	0.27816	0.34351		A		0.315620		6.47752
o-Chlorotoluene	2.63313	3.41304		A		2.854730		9.62066
p-Chlorotoluene	2.40123	3.04360		A		2.600740		8.54771
Cyclohexane	0.37204	0.48387		A		0.395440		12.73453
1,2-Dibromo-3-Chloropropane	236845	216		Q	0.000000	0.088690	0.003380	0.99995

CT Column contains the Calibration Type. A - Average Response Factor, L - Linear Regression, and Q - Quadratic.
SPCC Compounds (*) with required minimum RRF.
CCC Compounds (**) with required maximum %RSD.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Global SDG No.: PQF-048

Instrument ID: ms03.i Calibration Date(s): 10/24/2016 10/25/2016

Heated Purge: (Y/N) N Calibration Time(s): 23:25 01:36

GC Column: RTXVRX ID: 0.25 (mm)

LAB FILE ID: RRF001 = 316102454.D RRF005 = 316102455.D RRF020 = 316102456.D RRF050 = 316102457.D
RRF100 = 316102458.D RRF200 = 316102459.D RRF00.5 = 316102453.D

COMPOUND	RRF200	RRF00.5		CT	b	m1	m2	% RSD or R^2
1,2-Dibromoethane	0.42270	0.45800		A		0.413240		5.44563
Dibromomethane	0.13285	0.15694		A		0.133360		8.00683
trans-1,4-Dichloro-2-butene	0.22733	0.18628		A		0.210540		8.13222
1,2-Dichlorobenzene	2391672	6488		Q	0.000000	1.120670	0.000350	0.99996
1,3-Dichlorobenzene	2646613	6991		Q	0.000000	1.247110	-0.000630	0.99988
1,4-Dichlorobenzene	2747083	8390		Q	0.000000	1.247580	0.006330	0.99993
Dichlorodifluoromethane	2684578	8466		Q	0.000000	0.367020	-0.001630	0.99990
1,1-Dichloroethane *	0.44346	0.52936		A		0.479410		7.75112
1,2-Dichloroethene, Total	0.34153	0.42976		A		0.368120		9.28810
1,2-Dichloroethane	0.30039	0.38385		A		0.325080		9.43608
1,1-Dichloroethene **	0.34459	0.46376		A		0.378850		11.94550
cis-1,2-Dichloroethene	0.34309	0.42449		A		0.368010		8.46154
trans-1,2-Dichloroethene	0.33996	0.43503		A		0.368230		10.13634
Dichlorofluoromethane	0.48631	0.67145		A		0.547940		13.03919
1,1-Dichloro-2-Propanone	183114			Q	0.000000	0.009380	0.000060	0.99987
2,2-Dichloropropane	2334464	5612		Q	0.000000	0.286490	0.003500	0.99997
1,3-Dichloropropane	0.84761	1.04664		A		0.896600		8.53527
1,2-Dichloropropane **	0.26411	0.28790		A		0.269750		3.67818
1,1-Dichloropropene	0.33333	0.41695		A		0.355530		9.15436
cis-1,3-Dichloropropene	0.94273	0.76239		A		0.809560		12.18760
trans-1,3-Dichloropropene	0.81697	0.64863		A		0.703450		12.73811
1,3-Dichloropropene, Total	0.87985	0.70551		A		0.756510		12.40029
Diisobutylene	4638559	49615		L	0.000000	1.624990		0.99923
Diisopropyl ether	0.83314	0.85575		A		0.831750		2.59469
1,4-Dioxane		0.00085		A		0.000900		7.83899
Ethyl Acetate	0.22058	0.22906		A		0.210630		6.98683
Ethyl ether	0.17703	0.20782		A		0.182240		8.76396
Ethyl Methacrylate	0.75133	0.60390		A		0.644690		13.78699
Ethyl tert-butyl ether	0.75710	0.69761		A		0.706010		5.72714
Ethylbenzene **	0.78554	1.00235		A		0.818950		11.20990
Freon 113	0.18755	0.25223		A		0.213670		14.82713
Heptane	0.15521	0.18399		A		0.162200		9.02126
Hexachlorobutadiene	443687	2655		Q	0.000000	0.208850	-0.000060	0.99978
Hexachloroethane	0.41499	0.48590		A		0.387530		13.84879
Hexane	0.47428	0.61836		A		0.518610		10.65279
2-Hexanone	0.34738	0.28896		A		0.312070		11.19437

CT Column contains the Calibration Type. A - Average Response Factor, L - Linear Regression, and Q - Quadratic.
SPCC Compounds (*) with required minimum RRF.
CCC Compounds (**) with required maximum %RSD.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Global SDG No.: PQF-048

Instrument ID: ms03.i Calibration Date(s): 10/24/2016 10/25/2016

Heated Purge: (Y/N) N Calibration Time(s): 23:25 01:36

GC Column: RTXVRX ID: 0.25 (mm)

LAB FILE ID: RRF001 = 316102454.D RRF005 = 316102455.D RRF020 = 316102456.D RRF050 = 316102457.D
RRF100 = 316102458.D RRF200 = 316102459.D RRF00.5 = 316102453.D

COMPOUND	RRF200	RRF00.5		CT	b	m1	m2	% RSD or R^2
Iodomethane	494749	149		Q	-0.008140	0.062360	0.000730	0.99642
Isobutyl alcohol	619279	763		Q	0.000000	0.004640	0.000050	0.99898
Isopropyl Alcohol	304769	1235		L	0.000000	123		0.99987
Isopropylbenzene	3.38168	4.35645		A		3.635610		9.47768
p-Isopropyltoluene	0.65174	0.69616		A		0.634200		6.22181
Methyl acetate	0.03753	0.04190		A		0.038980		6.52893
Methyl acrylate	0.21318	0.20602		A		0.204280		3.38279
Methacrylonitrile	0.09972	0.11349		A		0.099940		6.44028
Methyl cyclohexane	0.94233	1.25387		A		0.995880		14.14034
Methyl methacrylate	0.20827	0.18495		A		0.185890		10.12387
Methyl t-Butyl Ether	0.64529	0.69007		A		0.635470		5.07149
4-Methyl-2-Pentanone(MIBK)	0.52658	0.48173		A		0.492680		8.69497
Methylene Chloride	1758964	11376		Q	0.008850	0.241960	-0.001490	0.99999
Naphthalene	2491026	2136		Q	0.000000	0.809020	0.054310	0.99950
Nitrobenzene	292262			L	7.949910	70.691483		0.92908
2-Nitropropane		2513		Q	0.000000	0.096600	0.001170	0.99918
Octane	787585	2518		L	0.000000	4.112440		0.99940
Pentachloroethane	0.50311	0.56172		A		0.501840		6.02006
Pentane	1462656	5345		L	0.000000	5.147300		0.99955
n-Propanol	1096313	3817		L	0.000000	67.482872		0.99813
Propionitrile	0.03091	0.03624		A		0.032480		6.37903
n-Propylbenzene	0.89435	1.01297		A		0.919330		5.27062
Styrene	2.21398	2.32321		A		2.224970		3.14802
1,1,1,2-Tetrachloroethane	0.42531	0.35861		A		0.393680		5.32972
1,1,2,2-Tetrachloroethane *	0.79426	1.07706		A		0.881660		11.15278
Tetrachloroethene	1230785	3835		Q	0.000000	0.337520	0.006440	0.99978
Tetrahydrofuran	0.06685	0.07319		A		0.066740		4.99108
Toluene **	1.36813	1.59766		A		1.429120		6.22783
Total Xylenes	0.93239	1.05257		A		0.919910		6.72402
1,2,3-Trichlorobenzene	0.35942	0.36710		A		0.311530		14.43604
1,2,4-Trichlorobenzene	1132094	2431		Q	0.000000	0.463680	0.010240	0.99989
1,1,1-Trichloroethane	0.33381	0.36428		A		0.336320		4.20703
1,1,2-Trichloroethane	0.38725	0.46585		A		0.415450		7.32080
Trichloroethene	0.24581	0.33285		A		0.261280		14.23143
Trichlorofluoromethane	3126719	9331		L	0.000000	2.435290		0.99930
1,2,3-Trichloropropane	0.23084	0.30144		A		0.262050		12.55504

CT Column contains the Calibration Type. A - Average Response Factor, L - Linear Regression, and Q - Quadratic.
SPCC Compounds (*) with required minimum RRF.
CCC Compounds (**) with required maximum %RSD.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Global **SDG No.:** PQF-048

Instrument ID: ms03.i **Calibration Date(s):** 10/24/2016 10/25/2016

Heated Purge: (Y/N) N **Calibration Time(s):** 23:25 01:36

GC Column: RTXVRX **ID:** 0.25 (mm)

LAB FILE ID: RRF001 = 316102454.D RRF005 = 316102455.D RRF020 = 316102456.D RRF050 = 316102457.D
RRF100 = 316102458.D RRF200 = 316102459.D RRF00.5 = 316102453.D

COMPOUND	RRF200	RRF00.5		CT	b	m1	m2	% RSD or R^2
1,2,4-Trimethylbenzene	2.57603	2.70021		A		2.602820		5.47750
1,3,5-Trimethylbenzene	2.58735	2.93522		A		2.662030		6.25730
Vinyl Acetate	398460	561		L	0.000000	19.061331		0.99952
Vinyl Chloride **	2731229	8644		L	0.000000	2.740460		0.99961
o-Xylene	0.88637	0.92962		A		0.848460		5.78158
mp-Xylene	0.95540	1.11404		A		0.955630		7.70860
4-Bromofluorobenzene	1321853	3635		L	0.000000	1.610530		0.99986
Dibromofluoromethane		0.23517		A		0.197810		10.14325
1,2-Dichloroethane-d4	1759427	6073		L	0.000000	4.249880		0.99925
Toluene-d8	6159407	17071		Q	0.000000	1.845010	0.009240	0.99999

CT Column contains the Calibration Type. A - Average Response Factor, L - Linear Regression, and Q - Quadratic.
SPCC Compounds (*) with required minimum RRF.
CCC Compounds (**) with required maximum %RSD.

Report Date : 25-Oct-2016 07:09 Page 1

ALS Environmental Services

INITIAL CALIBRATION DATA

Prior to application of curve fits

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Calibration File Names:
Level 1: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D
Level 2: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D
Level 3: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D
Level 4: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D
Level 5: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D
Level 6: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D
Level 8: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
1 Dichlorodifluoromethane	0.86336	0.41583	0.39055	0.35799	0.36182	0.35618						
	0.50673						AVRG		0.46464		39.52204	<-
2 Chloromethane	0.76480	0.36852	0.34970	0.32468	0.32410	0.31329						
	0.48740						AVRG		0.41893		39.06322	<-
3 Vinyl Chloride	0.85478	0.40757	0.40058	0.36887	0.37246	0.36237						
	0.51739						AVRG		0.46914		37.96483	<-
4 Bromomethane	0.19379	0.12079	0.12815	0.13812	0.16995	0.19650						
	0.16921						AVRG		0.15950		19.30222	<-

Report Date : 25-Oct-2016 07:09 Page 2

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
5 Chloroethane	0.53713	0.25079	0.23803	0.22341	0.22667	0.22496						
	0.32172						AVRG		0.28896		39.70648	<-
6 Pentane	0.27068	0.25297	0.22746	0.19321	0.19393	0.19406						
	0.31992						AVRG		0.23603		20.44122	<-
7 Trichlorofluoromethane	1.00065	0.45144	0.43087	0.39165	0.39755	0.41484						
	0.55851						AVRG		0.52079		42.04529	<-
8 Dichlorofluoromethane	0.61607	0.55624	0.51985	0.49175	0.49394	0.48631						
	0.67145						AVRG		0.54794		13.03919	
9 Ethyl Ether	0.20072	0.18158	0.16779	0.17322	0.16750	0.17703						
	0.20782						AVRG		0.18224		8.76396	
10 1,1-Dichloroethene	0.41487	0.37711	0.36211	0.34380	0.34573	0.34459						
	0.46376						AVRG		0.37885		11.94550	
11 Freon 113	0.25658	0.22412	0.20915	0.18165	0.18439	0.18755						
	0.25223						AVRG		0.21367		14.82713	

Report Date : 25-Oct-2016 07:09 Page 3

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
12 Carbon Disulfide	0.66525	0.58848	0.60135	0.60903	0.64594	0.65249						
	0.76142						AVRG		0.64628		9.02288	
13 Iodomethane	0.01732	0.01602	0.02987	0.04798	0.06015	0.06270						
	0.00892						AVRG		0.03471		63.85489	<-
14 Acrolein	0.03705	0.03364	0.03339	0.03536	0.03547	0.03621						
	0.03788						AVRG		0.03557		4.65502	
15 Isopropyl Alcohol	0.01051	0.00813	0.00729	0.00808	0.00788	0.00778						
	0.01478						AVRG		0.00921		28.97656	<-
16 3-Chloro-1-propene	0.32823	0.30573	0.32380	0.31600	0.31394	0.27816						
	0.34351						AVRG		0.31562		6.47752	
17 Methylene Chloride	0.47520	0.30643	0.25755	0.24351	0.23986	0.23337						
	0.68091						AVRG		0.34812		48.73111	<-
18 Acetone	0.02175	0.01965	0.01786	0.01862	0.01750	0.01725						
	0.02488						AVRG		0.01964		14.15947	

Report Date : 25-Oct-2016 07:09 Page 4

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
19 Methyl acetate	0.04320	0.03815	0.03662	0.03846	0.03700	0.03753						
	0.04190						AVRG		0.03898		6.52893	
20 trans-1,2-Dichloroethene	0.40181	0.36935	0.35384	0.33487	0.34274	0.33996						
	0.43503						AVRG		0.36823		10.13634	
21 Hexane	0.56583	0.48930	0.52534	0.47313	0.48403	0.47428						
	0.61836						AVRG		0.51861		10.65279	
22 Methyl t-Butyl Ether	0.65173	0.59342	0.60228	0.63117	0.63432	0.64529						
	0.69007						AVRG		0.63547		5.07149	
23 tert.- Butyl Alcohol	0.01234	0.01401	0.01164	0.01363	0.01416	0.01484						
	0.01511						AVRG		0.01368		9.27295	
24 Acetonitrile	0.02872	0.02407	0.02215	0.02262	0.02133	0.02032						
	0.03873						AVRG		0.02542		25.44665	<-
25 Diisopropyl ether	0.82228	0.79721	0.81459	0.84926	0.85000	0.83314						
	0.85575						AVRG		0.83175		2.59469	

Report Date : 25-Oct-2016 07:09 Page 5

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
26 Chloroprene	0.36057	0.35214	0.36235	0.34710	0.35193	0.35630						
	0.41126						AVRG		0.36309		6.02754	
27 1,1-Dichloroethane	0.52416	0.49600	0.46874	0.44966	0.44447	0.44346						
	0.52936						AVRG		0.47941		7.75112	
28 Acrylonitrile	0.09628	0.08432	0.08254	0.08489	0.08486	0.08437						
	0.09030						AVRG		0.08679		5.56184	
29 Ethyl tert-butyl ether	0.67000	0.65363	0.68317	0.72985	0.75071	0.75710						
	0.69761						AVRG		0.70601		5.72714	
30 n-Propanol	0.02002	0.01750	0.01646	0.01602	0.01554	0.01455						
	0.02285						AVRG		0.01756		16.55923	<-
31 Vinyl Acetate	0.03329	0.04184	0.04644	0.05009	0.05171	0.05287						
	0.03358						AVRG		0.04426		18.64261	<-
32 cis-1,2-Dichloroethene	0.39580	0.36876	0.35244	0.34636	0.34514	0.34309						
	0.42449						AVRG		0.36801		8.46154	

Report Date : 25-Oct-2016 07:09 Page 6

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
33 2,2-Dichloropropane	0.31762	0.29611	0.29178	0.28749	0.29972	0.30973						
	0.33591						AVRG		0.30548		5.54761	
34 Bromochloromethane	0.11393	0.09891	0.09904	0.09924	0.10251	0.09741						
	0.10564						AVRG		0.10238		5.66360	
35 Cyclohexane	0.43347	0.40248	0.38714	0.33740	0.35168	0.37204						
	0.48387						AVRG		0.39544		12.73453	
36 Chloroform	0.71740	0.51539	0.46474	0.43834	0.43357	0.43249						
	1.01017						AVRG		0.57316		37.98053	<-
37 Ethyl Acetate	0.19137	0.19875	0.19660	0.22133	0.21670	0.22058						
	0.22906						AVRG		0.21063		6.98683	
38 Methyl acrylate	0.20139	0.19205	0.20068	0.20771	0.20894	0.21318						
	0.20602						AVRG		0.20428		3.38279	
39 Carbon Tetrachloride	0.24373	0.24850	0.24537	0.23630	0.24914	0.26417						
	0.27916						AVRG		0.25234		5.75303	

Report Date : 25-Oct-2016 07:09 Page 7

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
40 Tetrahydrofuran	0.06718	0.06391	0.06298	0.06765	0.06541	0.06685						
	0.07319						AVRG		0.06674		4.99108	
42 1,1,1-Trichloroethane	0.33801	0.33512	0.33447	0.31667	0.33190	0.33381						
	0.36428						AVRG		0.33632		4.20703	
43 2-Butanone	0.02865	0.02920	0.02536	0.02873	0.02782	0.02873						
	0.03063						AVRG		0.02845		5.64286	
44 1,1-Dichloropropene	0.36909	0.36627	0.35150	0.32433	0.32723	0.33333						
	0.41695						AVRG		0.35553		9.15436	
45 1-Chlorobutane	0.33292	0.30857	0.28860	0.26037	0.25905	0.25699						
	0.37571						AVRG		0.29746		15.07912	<-
46 Heptane	0.17303	0.14977	0.17321	0.14398	0.15622	0.15521						
	0.18399						AVRG		0.16220		9.02126	
47 Benzene	1.16651	1.11359	1.07153	1.02387	1.02033	1.02168						
	1.26599						AVRG		1.09764		8.41680	

Report Date : 25-Oct-2016 07:09 Page 8

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1 / 0.5000000 Level 8	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
48 Propionitrile	0.03441	0.03184	0.03115	0.03209	0.03071	0.03091						
	0.03624						AVRG		0.03248		6.37903	
49 Methacrylonitrile	0.10169	0.09497	0.09580	0.09803	0.09587	0.09972						
	0.11349						AVRG		0.09994		6.44028	
50 tert-Amyl methyl ether	0.53820	0.55398	0.55044	0.57646	0.59854	0.62233						
	0.55348						AVRG		0.57049		5.31497	
52 1,2-Dichloroethane	0.34720	0.32602	0.30668	0.30697	0.30445	0.30039						
	0.38385						AVRG		0.32508		9.43608	
53 tert-Amyl Alcohol	0.00942	0.00910	0.00969	0.01166	0.01201	0.01382						
	0.00935						AVRG		0.01072		16.76483	<-
54 Isobutyl alcohol	0.00565	0.00524	0.00549	0.00624	0.00611	0.00822						
	0.00457						AVRG		0.00593		19.42118	<-
56 Diisobutylene	1.84200	0.83584	0.71524	0.59354	0.61598	0.61543						
	2.96970						AVRG		1.16968		77.69874	<-

Report Date : 25-Oct-2016 07:09 Page 9

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	0.5000000 Level 8										
57 Trichloroethene	0.29045	0.25021	0.24506	0.22935	0.23524	0.24581					
	0.33285						AVRG		0.26128		14.23143
58 Methyl cyclohexane	1.09975	0.97861	0.97804	0.83883	0.87973	0.94233					
	1.25387						AVRG		0.99588		14.14034
59 tert-Amyl Ethylether	0.47023	0.46718	0.48751	0.52438	0.55478	0.57614					
	0.47698						AVRG		0.50817		8.64268
60 Dibromomethane	0.12849	0.13037	0.12525	0.12836	0.13125	0.13285					
	0.15694						AVRG		0.13336		8.00683
61 1,2-Dichloropropane	0.27951	0.26524	0.26198	0.26349	0.26598	0.26411					
	0.28790						AVRG		0.26975		3.67818
62 Bromodichloromethane	0.24934	0.24945	0.26246	0.28238	0.29246	0.30324					
	0.26109						AVRG		0.27149		7.86025
63 Methyl methacrylate	0.16706	0.16259	0.17357	0.19853	0.20623	0.20827					
	0.18495						AVRG		0.18589		10.12387

Report Date : 25-Oct-2016 07:09 Page 10

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
64 1,4-Dioxane	0.00085	0.00094	0.00081	0.00099	0.00093	+++++						
	0.00085						AVRG		0.00090		7.83899	
65 2-Chloroethylvinyl ether	0.07842	0.08222	0.10395	0.12122	0.12779	0.13321						
	0.07021						AVRG		0.10243		25.10798	<-
66 cis-1,3-Dichloropropene	0.68326	0.70851	0.80078	0.86298	0.90630	0.94273						
	0.76239						AVRG		0.80956		12.18760	
67 Octane	0.24513	0.22356	0.26148	0.22341	0.24482	0.24381						
	0.37298						AVRG		0.25931		20.00254	<-
69 Toluene	1.47377	1.44639	1.42104	1.35212	1.34475	1.36813						
	1.59766						AVRG		1.42912		6.22783	
70 Chloroacetonitrile	0.00776	0.01069	0.01156	0.01336	0.01330	+++++						
	+++++						AVRG		0.01133		20.31531	<-
71 2-Nitropropane	0.07675	0.07206	0.08879	0.10988	0.11581	+++++						
	0.07445						AVRG		0.08962		21.17770	<-

Report Date : 25-Oct-2016 07:09 Page 11

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
72 1,1-Dichloro-2-Propanone	0.00446	0.00738	0.00797	0.01017	0.01030	0.01134						
	+++++						AVRG		0.00860		29.33683	<-
73 4-Methyl-2-Pentanone(MIBK)	0.41184	0.46985	0.50385	0.53585	0.51909	0.52658						
	0.48173						AVRG		0.49268		8.69497	
74 Tetrachloroethene	0.46315	0.43383	0.38881	0.35228	0.35360	0.38101						
	0.56805						AVRG		0.42010		18.29998	<-
75 trans-1,3-Dichloropropene	0.57047	0.63857	0.70183	0.75831	0.78936	0.81697						
	0.64863						AVRG		0.70345		12.73811	
76 Ethyl Methacrylate	0.51692	0.55725	0.65091	0.70882	0.72371	0.75133						
	0.60390						AVRG		0.64469		13.78699	
77 1,1,2-Trichloroethane	0.44412	0.42456	0.40261	0.39604	0.38773	0.38725						
	0.46585						AVRG		0.41545		7.32080	
78 Chlorodibromomethane	0.31089	0.32819	0.36660	0.40005	0.42623	0.45463						
	0.32883						AVRG		0.37363		14.69287	

Report Date : 25-Oct-2016 07:09 Page 12

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	0.5000000 Level 8										
79 1,3-Dichloropropane	0.94944	0.89018	0.84722	0.85592	0.83916	0.84761					
	1.04664						AVRG		0.89660		8.53527
80 1,2-Dibromoethane	0.39514	0.39016	0.40537	0.40840	0.41291	0.42270					
	0.45800						AVRG		0.41324		5.44563
81 2-Hexanone	0.26549	0.27769	0.31515	0.34833	0.34148	0.34738					
	0.28896						AVRG		0.31207		11.19437
82 1-Chlorohexane	0.66649	0.69151	0.71264	0.66456	0.74299	0.77956					
	0.84430						AVRG		0.72886		8.99338
84 Chlorobenzene	1.62281	1.49311	1.38610	1.33471	1.34965	1.39853					
	1.91050						AVRG		1.49934		13.79897
85 Ethylbenzene	0.85964	0.82780	0.77321	0.73304	0.75107	0.78554					
	1.00235						AVRG		0.81895		11.20990
86 1,1,1,2-Tetrachloroethane	0.38204	0.39121	0.39199	0.39695	0.40968	0.42531					
	0.35861						AVRG		0.39368		5.32972

Report Date : 25-Oct-2016 07:09 Page 13

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
87 mp-Xylene	0.93315	0.95752	0.92621	0.89048	0.91265	0.95540						
	1.11404						AVRG		0.95563		7.70860	
88 o-Xylene	0.78160	0.82160	0.82456	0.82972	0.86575	0.88637						
	0.92962						AVRG		0.84846		5.78158	
89 Styrene	2.09513	2.21890	2.26663	2.20601	2.25093	2.21398						
	2.32321						AVRG		2.22497		3.14802	
90 Bromoform	0.23574	0.22548	0.25304	0.28360	0.30763	0.33245						
	0.21703						AVRG		0.26500		16.57401	<-
91 Isopropylbenzene	3.62943	3.67994	3.62774	3.35092	3.42308	3.38168						
	4.35645						AVRG		3.63561		9.47768	
93 Bromobenzene	0.81241	0.76139	0.72397	0.68847	0.70420	0.71012						
	0.93455						AVRG		0.76216		11.38798	
94 n-Propylbenzene	0.92335	0.91780	0.93764	0.86157	0.88763	0.89435						
	1.01297						AVRG		0.91933		5.27062	

Report Date : 25-Oct-2016 07:09 Page 14

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	0.5000000 Level 8										
95 1,1,2,2-Tetrachloroethane	0.93957	0.87048	0.84649	0.83460	0.80913	0.79426					
	1.07706						AVRG		0.88166		11.15278
96 o-Chlorotoluene	2.82264	2.96579	2.83081	2.63576	2.68191	2.63313					
	3.41304						AVRG		2.85473		9.62066
97 1,3,5-Trimethylbenzene	2.41304	2.70472	2.78247	2.57745	2.63397	2.58735					
	2.93522						AVRG		2.66203		6.25730
98 1,2,3-Trichloropropane	0.31424	0.25793	0.25297	0.24268	0.23428	0.23084					
	0.30144						AVRG		0.26205		12.55504
99 trans-1,4-Dichloro-2-butene	0.20121	0.19251	0.21594	0.22249	0.22799	0.22733					
	0.18628						AVRG		0.21054		8.13222
M 100 1,2-Dichloroethene, Total	0.39880	0.36906	0.35314	0.34062	0.34394	0.34153					
	0.42976						AVRG		0.36812		9.28810
101 p-Chlorotoluene	2.64512	2.66736	2.56792	2.41348	2.46647	2.40123					
	3.04360						AVRG		2.60074		8.54771

Report Date : 25-Oct-2016 07:09 Page 15

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
102 tert-Butylbenzene	0.60924	0.61349	0.60415	0.55240	0.57375	0.57439						
	0.69225						AVRG		0.60281		7.52628	
103 Pentachloroethane	0.51243	0.47196	0.48253	0.47924	0.50187	0.50311						
	0.56172						AVRG		0.50184		6.02006	
104 1,2,4-Trimethylbenzene	2.31518	2.70432	2.73151	2.56411	2.62840	2.57603						
	2.70021						AVRG		2.60282		5.47750	
105 sec-Butylbenzene	3.23657	3.32780	3.40309	3.06982	3.18629	3.10322						
	3.97372						AVRG		3.32864		9.24512	
106 p-Isopropyltoluene	0.57719	0.60158	0.65129	0.61392	0.64755	0.65174						
	0.69616						AVRG		0.63420		6.22181	
107 1,3-Dichlorobenzene	1.54816	1.42950	1.30033	1.20856	1.25425	1.24231						
	1.82142						AVRG		1.40065		15.78007	<-
109 1,4-Dichlorobenzene	1.62012	1.44172	1.30607	1.23014	1.27421	1.28947						
	2.18591						AVRG		1.47823		22.95255	<-

Report Date : 25-Oct-2016 07:09 Page 16

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
110 Benzyl Chloride	0.08425	0.10108	0.12607	0.16502	0.19570	0.22637						
	+++++						AVRG		0.14975		37.10150	<-
111 n-Butylbenzene	0.51675	0.49271	0.54432	0.51873	0.55586	0.55878						
	0.72221						AVRG		0.55848		13.60947	
112 Hexachloroethane	0.38567	0.32974	0.33979	0.35532	0.40133	0.41499						
	0.48590						AVRG		0.38753		13.84879	
113 1,2-Dichlorobenzene	1.35494	1.22128	1.14414	1.10203	1.12680	1.12264						
	1.69037						AVRG		1.25174		16.95447	<-
114 1,2-Dibromo-3-chloropropane	0.07235	0.08075	0.08369	0.09528	0.10016	0.11117						
	0.05628						AVRG		0.08567		21.43056	<-
115 Nitrobenzene	+++++	+++++	0.00188	0.00425	0.00620	0.01372						
	+++++						AVRG		0.00651		78.62679	<-
116 Hexachlorobutadiene	0.36670	0.23306	0.21799	0.20029	0.21098	0.20827						
	0.69173						AVRG		0.30414		59.31429	<-

Report Date : 25-Oct-2016 07:09 Page 17

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
117 1,2,4-Trichlorobenzene	0.48091	0.39011	0.43057	0.47380	0.50367	0.53140						
	0.63337						AVRG		0.49197		15.80643	<-
118 Naphthalene	0.40097	0.41384	0.61066	0.90980	1.00516	1.16928						
	0.55651						AVRG		0.72374		41.95815	<-
119 1,2,3-Trichlorobenzene	0.29134	0.24171	0.27642	0.32091	0.32381	0.35942						
	0.36710						AVRG		0.31153		14.43604	
M 120 1,3-Dichloropropene, Total	0.62687	0.67354	0.75131	0.81065	0.84783	0.87985						
	0.70551						AVRG		0.75651		12.40029	
M 121 Total Xylenes	0.88263	0.91221	0.89232	0.87022	0.89702	0.93239						
	1.05257						AVRG		0.91991		6.72402	
$ 41 Dibromofluoromethane	0.20636	0.18588	0.18488	0.18474	0.18984	+++++						
	0.23517						AVRG		0.19781		10.14325	
$ 51 1,2-Dichloroethane-d4	0.32019	0.26494	0.23795	0.25638	0.23731	0.23343						
	0.36350						AVRG		0.27338		18.18275	<-

Report Date : 25-Oct-2016 07:09 Page 18

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
$ 68 Toluene-d8	2.24189	1.82761	1.89488	1.85431	1.87492	1.90676						
	2.52862						AVRG		2.01843		13.13767	
$ 92 4-Bromofluorobenzene	0.74190	0.59844	0.62521	0.59874	0.62809	0.62047						
	0.94705						AVRG		0.67999		18.76083	<-

Report Date : 25-Oct-2016 07:09 Page 19

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response

Data File: 316102453.D
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610245
Lab Smp Id: VSTD00.5
Inj Date : 24-OCT-2016 23:25
Operator : CJG Inst ID: ms03.i
Smp Info : VSTD00.5;;1;1;8;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b0
Meth Date : 25-Oct-2016 10:10 joshua Quant Type: ISTD
Cal Date : 24-OCT-2016 23:25 Cal File: 316102453.D
Als bottle: 3 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: ALMDTW7062

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.259	(0.332)	8466	0.50000	0.690411(a)	
2 Chloromethane	50	1.389	1.390	(0.367)	8143	0.50000	0.728619(a)	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	8644	0.50000	0.679652(a)	
4 Bromomethane	94	1.646	1.646	(0.434)	3402	0.50000	0.875039(aQM)	H
5 Chloroethane	64	1.722	1.723	(0.454)	5375	0.50000	0.706730(a)	
6 Pentane	41	1.793	1.794	(0.473)	5345	0.50000	0.812643(a)	
7 Trichlorofluoromethane	101	1.798	1.799	(0.475)	9331	0.50000	0.722796(a)	
8 Dichlorofluoromethane	67	1.826	1.826	(0.482)	11218	0.50000	0.670215(a)	
9 Ethyl Ether	74	1.968	1.968	(0.519)	3472	0.50000	0.635084(aQ)	
10 1,1-Dichloroethene	61	2.093	2.088	(0.552)	7748	0.50000	0.667648(a)	
11 Freon 113	101	2.104	2.105	(0.555)	4214	0.50000	0.687634(a)	
12 Carbon Disulfide	76	2.120	2.121	(0.560)	12721	0.50000	0.613565(a)	
13 Iodomethane	127	2.180	2.181	(0.575)	149	0.50000	2.91993(Q)	
14 Acrolein	56	2.273	2.274	(0.600)	6329	5.00000	5.45589(a)	
15 Isopropyl Alcohol	45	2.333	2.334	(0.616)	1235	2.50000	4.62437(a)	
16 3-Chloro-1-propene	41	2.344	2.345	(0.619)	5739	0.50000	0.504444(a)	
17 Methylene Chloride	84	2.404	2.405	(0.634)	11376	0.50000	0.309773(a)	
18 Acetone	58	2.426	2.427	(0.640)	2078	2.50000	3.41282(aQ)	
19 Methyl acetate	74	2.480	2.481	(0.655)	700	0.50000	0.562208(aQ)	
20 trans-1,2-Dichloroethene	61	2.486	2.487	(0.656)	7268	0.50000	0.635506(a)	
21 Hexane	57	2.519	2.519	(0.665)	10331	0.50000	0.631555(a)	

Data File: 316102453.D
Report Date: 25-Oct-2016 10:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.535	2.530	(0.669)	11529	0.50000	0.554495(a)	
	23 tert.- Butyl Alcohol	59	2.568	2.563	(0.678)	1262	2.50000	2.85415(a)	
	24 Acetonitrile	41	2.682	2.683	(0.708)	3235	2.50000	4.26442(a)	
	25 Diisopropyl ether	45	2.721	2.721	(0.718)	14297	0.50000	0.498743(a)	
	26 Chloroprene	53	2.797	2.798	(0.738)	6871	0.50000	0.591489(a)	
	27 1,1-Dichloroethane	63	2.813	2.814	(0.742)	8844	0.50000	0.588192(a)	
	28 Acrylonitrile	53	2.841	2.841	(0.750)	7543	2.50000	2.65567(a)	
	29 Ethyl tert-butyl ether	59	2.912	2.912	(0.768)	11655	0.50000	0.477618(a)	
	30 n-Propanol	41	2.912	2.912	(0.768)	3817	5.00000	6.90834(aQ)	
	31 Vinyl Acetate	86	2.928	2.929	(0.773)	561	0.50000	0.338186(aQ)	
	32 cis-1,2-Dichloroethene	61	3.097	3.098	(0.817)	7092	0.50000	0.610059(a)	
	33 2,2-Dichloropropane	77	3.163	3.158	(0.834)	5612	0.50000	0.586095(a)	
	34 Bromochloromethane	128	3.206	3.207	(0.846)	1765	0.50000	0.506762(aQ)	
	35 Cyclohexane	84	3.212	3.212	(0.847)	8084	0.50000	0.722991(a)	
	36 Chloroform	83	3.233	3.234	(0.853)	16877	0.50000	1.14847	
	37 Ethyl Acetate	43	3.277	3.278	(0.865)	3827	0.50000	0.534638(aM)	H
	38 Methyl acrylate	55	3.299	3.294	(0.870)	3442	0.50000	0.503452(aQ)	
	39 Carbon Tetrachloride	117	3.321	3.321	(0.876)	4664	0.50000	0.600066(a)	
	40 Tetrahydrofuran	42	3.332	3.327	(0.879)	6114	2.50000	2.80663(a)	
$	41 Dibromofluoromethane	113	3.337	3.338	(0.881)	3929	0.50000	0.649400(a)	
	42 1,1,1-Trichloroethane	97	3.359	3.360	(0.886)	6086	0.50000	0.562248(a)	
	43 2-Butanone	72	3.408	3.398	(0.899)	2559	2.50000	2.79648(a)	
	44 1,1-Dichloropropene	75	3.424	3.425	(0.904)	6966	0.50000	0.643276(a)	
	45 1-Chlorobutane	41	3.446	3.447	(0.909)	6277	0.50000	0.711580(a)	
	46 Heptane	71	3.512	3.512	(0.927)	3074	0.50000	0.601876(aQ)	
	47 Benzene	78	3.566	3.567	(0.941)	21151	0.50000	0.616890(a)	
	48 Propionitrile	54	3.577	3.578	(0.944)	3027	2.50000	2.89972(a)	
	49 Methacrylonitrile	67	3.588	3.583	(0.947)	1896	0.50000	0.602522(a)	
	50 tert-Amyl methyl ether	73	3.599	3.600	(0.950)	9247	0.50000	0.487597(a)	
$	51 1,2-Dichloroethane-d4	65	3.643	3.638	(0.961)	6073	0.50000	0.730402(aQ)	
	52 1,2-Dichloroethane	62	3.675	3.676	(0.970)	6413	0.50000	0.621644(a)	
	53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	781	2.50000	2.25178(aQ)	
	54 Isobutyl alcohol	43	3.615	3.632	(0.954)	763	5.00000	4.90820(aQM)	H
*	55 Fluorobenzene	96	3.790	3.791	(1.000)	1002423	30.0000		
	56 Diisobutylene	57	3.790	3.796	(1.000)	49615	0.50000	2.40763(Q)	
	57 Trichloroethene	95	3.883	3.883	(1.024)	5561	0.50000	0.735563(a)	
	58 Methyl cyclohexane	83	3.883	3.883	(0.674)	8465	0.50000	0.757728(a)	
	59 tert-Amyl Ethylether	59	3.992	3.987	(1.053)	7969	0.50000	0.458850(a)	
	60 Dibromomethane	93	4.139	4.139	(1.092)	2622	0.50000	0.611602(a)	
	61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	4810	0.50000	0.541575(aQM)	H
	62 Bromodichloromethane	83	4.221	4.222	(1.114)	4362	0.50000	0.470390(a)	
	63 Methyl methacrylate	41	4.292	4.293	(1.132)	3090	0.50000	0.466598(a)	
	64 1,4-Dioxane	88	4.336	4.336	(1.144)	354	12.5000	10.8705(aQM)	H
	65 2-Chloroethylvinyl ether	63	4.548	4.549	(1.200)	1173	0.50000	0.295843(a)	
	66 cis-1,3-Dichloropropene	75	4.603	4.604	(0.799)	5147	0.50000	0.447976(a)	
	67 Octane	85	4.603	4.609	(0.799)	2518	0.50000	0.786164(aQ)	
$	68 Toluene-d8	98	4.723	4.724	(0.820)	17071	0.50000	0.685182(a)	
	69 Toluene	92	4.756	4.756	(0.826)	10786	0.50000	0.596461(a)	
	70 Chloroacetonitrile	48	4.838	4.833	(0.840)	315	2.50000	1.84158(aQ)	
	71 2-Nitropropane	41	4.909	4.909	(0.852)	2513	2.50000	1.92520(a)	
	72 1,1-Dichloro-2-Propanone	63	4.914	4.920	(0.853)	129	0.50000	1.02720(aQM)	H
	73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.986	(0.865)	16261	2.50000	2.31685(a)	
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	3835	0.50000	0.841054(a)	
	75 trans-1,3-Dichloropropene	75	5.018	5.013	(0.871)	4379	0.50000	0.433867(a)	

Data File: 316102453.D Page 3
Report Date: 25-Oct-2016 10:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.094	5.095	(0.884)	4077	0.50000	0.437379(a)	
	77 1,1,2-Trichloroethane	83	5.121	5.122	(0.889)	3145	0.50000	0.592134(a)	
	78 Chlorodibromomethane	129	5.241	5.247	(0.910)	2220	0.50000	0.422849(a)	
	79 1,3-Dichloropropane	76	5.312	5.313	(0.922)	7066	0.50000	0.621572(aQM)	H
	80 1,2-Dibromoethane	107	5.416	5.422	(0.940)	3092	0.50000	0.567809(a)	
	81 2-Hexanone	43	5.547	5.542	(0.963)	9754	2.50000	2.13883(a)	
	82 1-Chlorohexane	91	5.738	5.739	(0.996)	5700	0.50000	0.621446(aQ)	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	405067	30.0000		
	84 Chlorobenzene	112	5.771	5.777	(1.002)	12898	0.50000	0.727357(a)	
	85 Ethylbenzene	106	5.782	5.782	(1.004)	6767	0.50000	0.694566(aQ)	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.815	(1.009)	2421	0.50000	0.458082(a)	
	87 mp-Xylene	106	5.880	5.880	(1.021)	15042	1.00000	1.27382(a)	
	88 o-Xylene	106	6.196	6.197	(1.076)	6276	0.50000	0.559136(a)	
	89 Styrene	104	6.234	6.235	(0.829)	8917	0.50000	0.514581(a)	
	90 Bromoform	173	6.262	6.262	(0.832)	833	0.50000	0.395703(a)	
	91 Isopropylbenzene	105	6.425	6.426	(0.854)	16721	0.50000	0.633423(a)	
$	92 4-Bromofluorobenzene	174	6.649	6.650	(0.884)	3635	0.50000	0.764093(a)	
	93 Bromobenzene	156	6.731	6.732	(0.895)	3587	0.50000	0.672212(a)	
	94 n-Propylbenzene	120	6.736	6.737	(0.896)	3888	0.50000	0.578296(aQ)	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.792	(0.903)	4134	0.50000	0.645241(a)	
	96 o-Chlorotoluene	91	6.867	6.868	(0.913)	13100	0.50000	0.629781(a)	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.915)	11266	0.50000	0.552941(a)	
	98 1,2,3-Trichloropropane	110	6.906	6.906	(0.918)	1157	0.50000	0.622126(a)	
	99 trans-1,4-Dichloro-2-butene	53	6.927	6.933	(0.921)	715	0.50000	0.414560(aQM)	H
M	100 1,2-Dichloroethene, Total	61				14360	1.00000	1.24556(a)	
	101 p-Chlorotoluene	91	6.993	6.994	(0.930)	11682	0.50000	0.609234(a)	
	102 tert-Butylbenzene	134	7.140	7.141	(0.949)	2657	0.50000	0.610887(aQ)	
	103 Pentachloroethane	117	7.157	7.163	(0.951)	2156	0.50000	0.574449(aQM)	H
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.956)	10364	0.50000	0.510417(a)	
	105 sec-Butylbenzene	105	7.277	7.277	(0.967)	15252	0.50000	0.618733(a)	
	106 p-Isopropyltoluene	134	7.386	7.392	(0.982)	2672	0.50000	0.552939(a)	
	107 1,3-Dichlorobenzene	146	7.462	7.463	(0.992)	6991	0.50000	0.730267(a)	
*	108 1,4-Dichlorobenzene-d4	152	7.522	7.523	(1.000)	230293	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	7.528	7.534	(1.001)	8390	0.50000	0.875930(aQ)	
	110 Benzyl Chloride	126	7.730	7.736	(1.028)	337	0.50000	0.285460(aQ)	
	111 n-Butylbenzene	134	7.735	7.736	(1.028)	2772	0.50000	0.674087(aQ)	
	112 Hexachloroethane	117	7.844	7.850	(1.043)	1865	0.50000	0.665106(aQM)	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.047)	6488	0.50000	0.754170(a)	
	114 1,2-Dibromo-3-chloropropane	75	8.537	8.542	(1.135)	216	0.50000	0.317138(aQ)	
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	9.088	9.089	(1.208)	2655	0.50000	1.65608(a)	
	117 1,2,4-Trichlorobenzene	180	9.115	9.116	(1.212)	2431	0.50000	0.682631(a)	
	118 Naphthalene	128	9.394	9.394	(1.249)	2136	0.50000	0.343677(aM)	H
	119 1,2,3-Trichlorobenzene	180	9.552	9.547	(1.270)	1409	0.50000	0.626011(a)	
M	120 1,3-Dichloropropene, Total	75				9526	1.00000	0.881843(a)	
M	121 Total Xylenes	106				21318	1.50000	1.83296(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 316102453.D Page 4
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 25-OCT-2016
Lab File ID: 316102453.D Calibration Time: 00:52
Lab Smp Id: VSTD00.5
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: CJG
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	1002423	-1.06
83 Chlorobenzene-d5	432864	216432	865728	405067	-6.42
108 1,4-Dichlorobenze	273837	136919	547674	230293	-15.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102453.D
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Client SDG: 3161024A.b
Lab Smp Id: VSTD00.5
Sample Location:
Sample Point:
Sample Date:
Date Received:
Sample Matrix: WATER
Quant Type: ISTD
Analysis Type: VOA
Level: LOW
Data Type: MS DATA
Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	0.690411	J
74-87-3	Chloromethane	0.728619	J
75-01-4	Vinyl Chloride	0.679652	J
74-83-9	Bromomethane	0.875039	J
75-00-3	Chloroethane	0.706730	J
109-66-0	Pentane	0.812643	J
75-69-4	Trichlorofluoromethane	0.722796	J
75-43-4	Dichlorofluoromethane	0.670215	J
60-29-7	Ethyl Ether	0.635084	J
75-35-4	1,1-Dichloroethene	0.667648	J
76-13-1	Freon 113	0.687634	J
75-15-0	Carbon Disulfide	0.613565	J
74-88-4	Iodomethane	2.91993	
107-02-8	Acrolein	5.45589	J
67-63-0	Isopropyl Alcohol	4.62437	J
107-05-1	3-Chloro-1-propene	0.504444	J
75-09-2	Methylene Chloride	0.309773	J
67-64-1	Acetone	3.41282	J
79-20-9	Methyl acetate	0.562208	J
156-60-5	trans-1,2-Dichloroethene	0.635506	J
110-54-3	Hexane	0.631555	J
1634-04-4	Methyl t-Butyl Ether	0.554495	J
75-65-0	tert.- Butyl Alcohol	2.85415	J
75-05-8	Acetonitrile	4.26442	J
108-20-3	Diisopropyl ether	0.498743	J
126-99-8	Chloroprene	0.591489	J
75-34-3	1,1-Dichloroethane	0.588192	J
107-13-1	Acrylonitrile	2.65567	J
637-92-3	Ethyl tert-butyl ether	0.477618	J
71-23-8	n-Propanol	6.90834	J
108-05-4	Vinyl Acetate	0.338186	J
156-59-2	cis-1,2-Dichloroethene	0.610059	J
594-20-7	2,2-Dichloropropane	0.586095	J
74-97-5	Bromochloromethane	0.506762	J
110-82-7	Cyclohexane	0.722991	J
67-66-3	Chloroform	1.14847	
141-78-6	Ethyl Acetate	0.534638	J
96-33-3	Methyl acrylate	0.503452	J
56-23-5	Carbon Tetrachloride	0.600066	J
109-99-9	Tetrahydrofuran	2.80663	J
71-55-6	1,1,1-Trichloroethane	0.562248	J
78-93-3	2-Butanone	2.79648	J

Data File: 316102453.D
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Client SDG: 3161024A.b
Lab Smp Id: VSTD00.5
Sample Location:
Sample Point:
Sample Date:
Date Received:
Sample Matrix: WATER
Quant Type: ISTD
Analysis Type: VOA
Level: LOW
Data Type: MS DATA
Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
563-58-6	1,1-Dichloropropene	0.643276	J
109-69-3	1-Chlorobutane	0.711580	J
142-82-5	Heptane	0.601876	J
71-43-2	Benzene	0.616890	J
107-12-0	Propionitrile	2.89972	J
126-98-7	Methacrylonitrile	0.602522	J
994-05-8	tert-Amyl methyl ether	0.487597	J
107-06-2	1,2-Dichloroethane	0.621644	J
75-85-4	tert-Amyl Alcohol	2.25178	J
78-83-1	Isobutyl alcohol	4.90820	J
107-39-1	Diisobutylene	2.40763	
79-01-6	Trichloroethene	0.735563	J
108-87-2	Methyl cyclohexane	0.757728	J
919-94-8	tert-Amyl Ethylether	0.458850	J
74-95-3	Dibromomethane	0.611602	J
78-87-5	1,2-Dichloropropane	0.541575	J
75-27-4	Bromodichloromethane	0.470390	J
80-62-6	Methyl methacrylate	0.466598	J
123-91-1	1,4-Dioxane	10.8705	J
110-75-8	2-Chloroethylvinyl ether	0.295843	J
10061-01-5	cis-1,3-Dichloropropene	0.447976	J
111-65-9	Octane	0.786164	J
108-88-3	Toluene	0.596461	J
107-14-2	Chloroacetonitrile	1.84158	J
79-46-9	2-Nitropropane	1.92520	J
513-88-2	1,1-Dichloro-2-Propanone	1.02720	J
108-10-1	4-Methyl-2-Pentanone(MIBK)	2.31685	J
127-18-4	Tetrachloroethene	0.841054	J
10061-02-6	trans-1,3-Dichloropropene	0.433867	J
97-63-2	Ethyl Methacrylate	0.437379	J
79-00-5	1,1,2-Trichloroethane	0.592134	J
124-48-1	Chlorodibromomethane	0.422849	J
142-28-9	1,3-Dichloropropane	0.621572	J
106-93-4	1,2-Dibromoethane	0.567809	J
591-78-6	2-Hexanone	2.13883	J
544-10-5	1-Chlorohexane	0.621446	J
108-90-7	Chlorobenzene	0.727357	J
100-41-4	Ethylbenzene	0.694566	J
630-20-6	1,1,1,2-Tetrachloroethane	0.458082	J
108383/106423	m-p-Xylene	1.27382	J
95-47-6	o-Xylene	0.559136	J
100-42-5	Styrene	0.514581	J

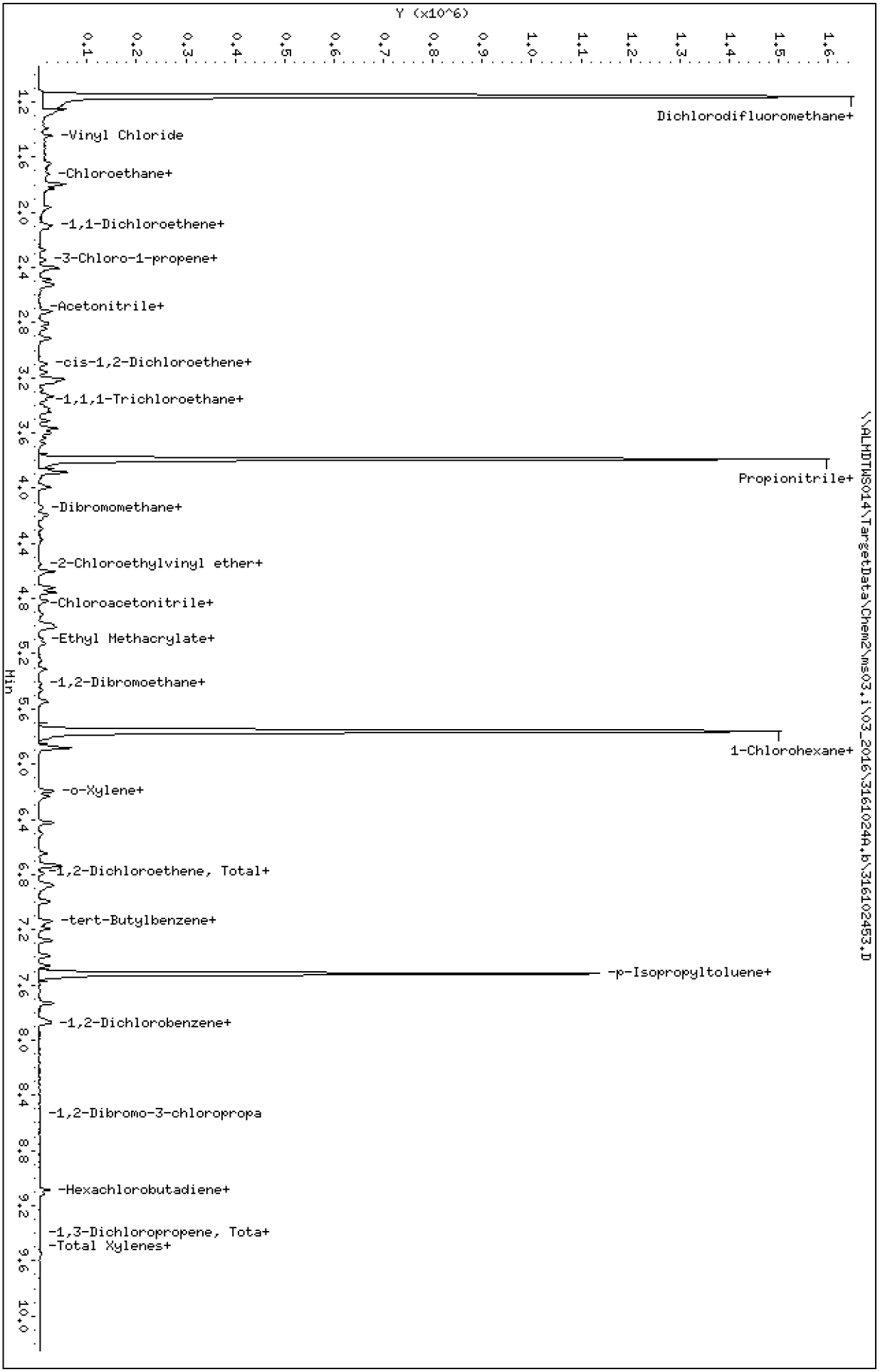
Data File: 316102453.D
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Client SDG: 3161024A.b
Lab Smp Id: VSTD00.5
Sample Location:
Sample Point:
Sample Date:
Date Received:
Sample Matrix: WATER
Quant Type: ISTD
Analysis Type: VOA
Level: LOW
Data Type: MS DATA
Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-25-2	Bromoform	0.395703	J
98-82-8	Isopropylbenzene	0.633423	J
108-86-1	Bromobenzene	0.672212	J
103-65-1	n-Propylbenzene	0.578296	J
79-34-5	1,1,2,2-Tetrachloroethane	0.645241	J
95-49-8	o-Chlorotoluene	0.629781	J
108-67-8	1,3,5-Trimethylbenzene	0.552941	J
96-18-4	1,2,3-Trichloropropane	0.622126	J
110-57-6	trans-1,4-Dichloro-2-butene	0.414560	J
540-59-0	1,2-Dichloroethene, Total	1.24556	J
106-43-4	p-Chlorotoluene	0.609234	J
98-06-6	tert-Butylbenzene	0.610887	J
76-01-7	Pentachloroethane	0.574449	J
95-63-6	1,2,4-Trimethylbenzene	0.510417	J
135-98-8	sec-Butylbenzene	0.618733	J
99-87-6	p-Isopropyltoluene	0.552939	J
541-73-1	1,3-Dichlorobenzene	0.730267	J
106-46-7	1,4-Dichlorobenzene	0.875930	J
100-44-7	Benzyl Chloride	0.285460	J
104-51-8	n-Butylbenzene	0.674087	J
67-72-1	Hexachloroethane	0.665106	J
95-50-1	1,2-Dichlorobenzene	0.754170	J
96-12-8	1,2-Dibromo-3-chloropropane	0.317138	J
87-68-3	Hexachlorobutadiene	1.65608	J
120-82-1	1,2,4-Trichlorobenzene	0.682631	J
91-20-3	Naphthalene	0.343677	J
87-61-6	1,2,3-Trichlorobenzene	0.626011	J
542-75-6	1,3-Dichloropropene, Total	0.881843	J
1330-20-7	Total Xylenes	1.83296	J
1868-53-7	Dibromofluoromethane	0.649400	J
17060-07-0	1,2-Dichloroethane-d4	0.730402	J
2037-26-5	Toluene-d8	0.685182	J
460-00-4	4-Bromofluorobenzene	0.764093	J


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
Min
1.2
1.6
2.0
2.4
2.8
3.2
3.6
4.0
4.4
4.8
5.2
5.6
6.0
6.4
6.8
7.2
7.6
8.0
8.4
8.8
9.2
9.6
10.0
Dichlorodifluoromethane+
-Vinyl Chloride
-Chloroethane+
-1,1-Dichloroethene+
-3-Chloro-1-propene+
-Acetonitrile+
-cis-1,2-Dichloroethene+
-1,1,1-Trichloroethane+
Propionitrile+
-Dibromomethane+
-2-Chloroethylvinyl ether+
-Chloroacetonitrile+
-Ethyl Methacrylate+
-1,2-Dibromoethane+
1-Chlorohexane+
-o-Xylene+
-1,2-Dichloroethene, Total+
-tert-Butylbenzene+
-p-Isopropyltoluene+
-1,2-Dichlorobenzene+
-1,2-Dibromo-3-chloropropa
-Hexachlorobutadiene+
-1,3-Dichloropropene, Tota+
-Total Xylenes+
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S3.D
Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S3.D
Date : 24-OCT-2016 23:25
Client ID:
Sample Info: VSTD00.5;;1;1;8;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
Page 8

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 9

Date : 24-OCT-2016 23:25

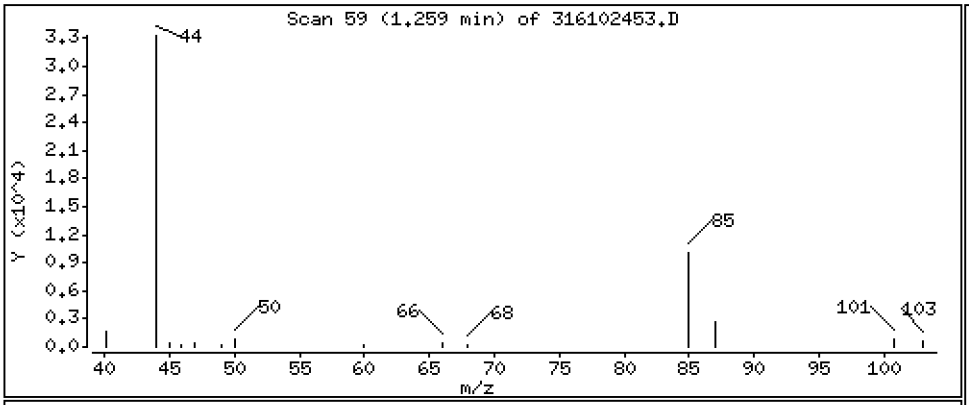
Client ID: Instrument: ms03.i

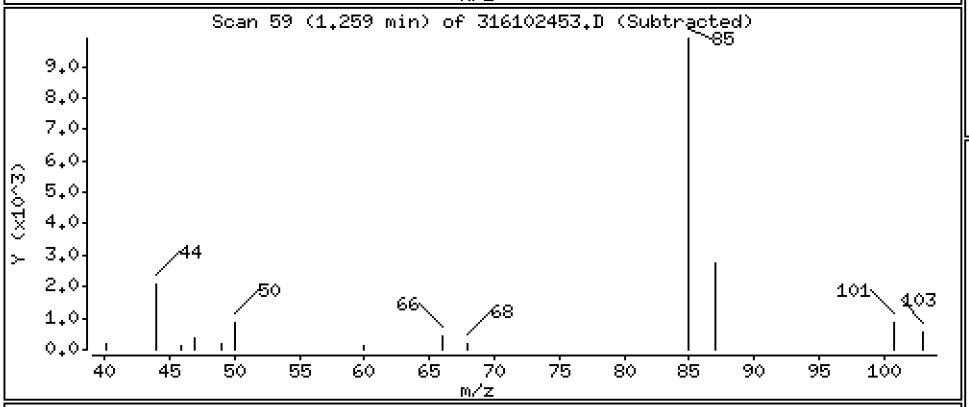
Sample Info: VSTD00.5;;1;1;8;;;

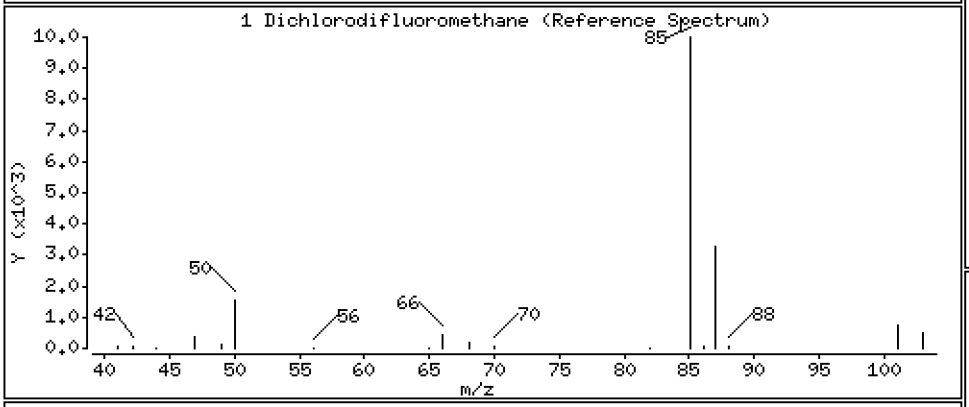
Purge Volume: 5.0 Operator: CJG

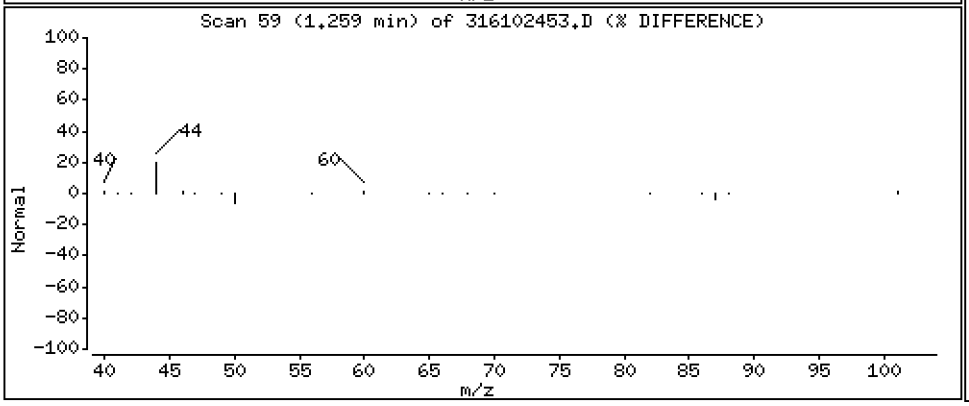
Column phase: DB-VRX Column diameter: 0.25

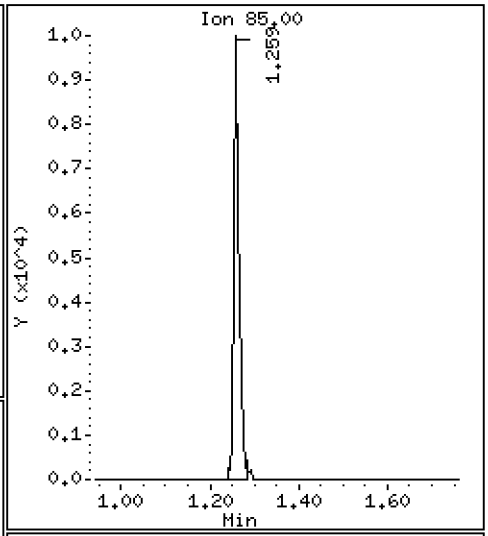
1 Dichlorodifluoromethane Concentration: 0.690411 ug/L

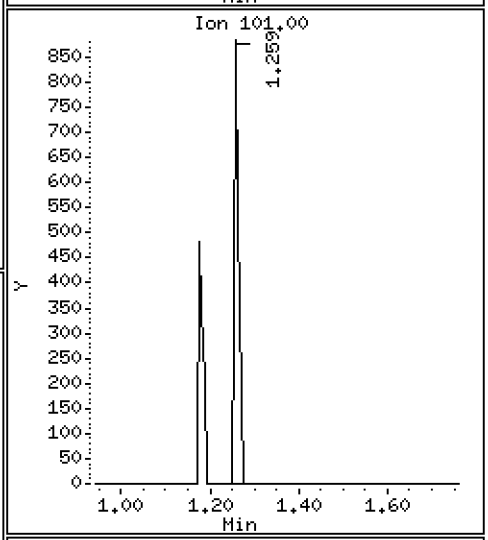


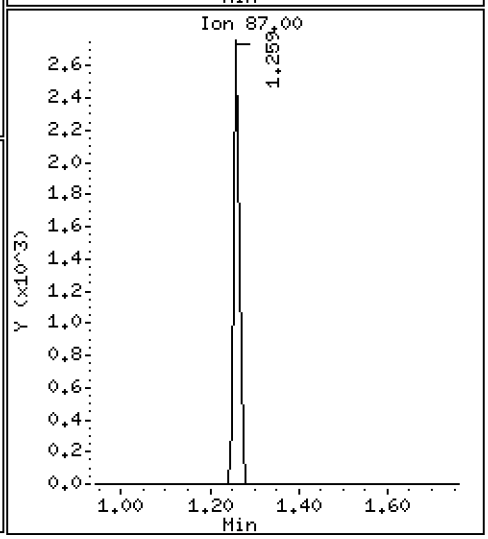












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 10

Date : 24-OCT-2016 23:25

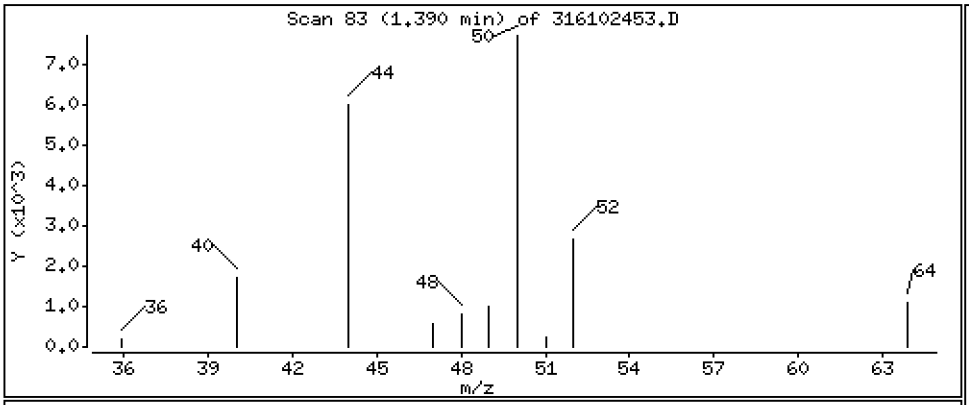
Client ID: Instrument: ms03.i

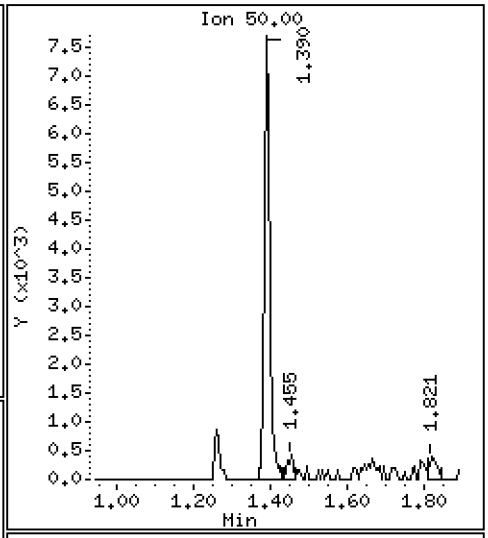
Sample Info: VSTD00.5;;1;1;8;;;

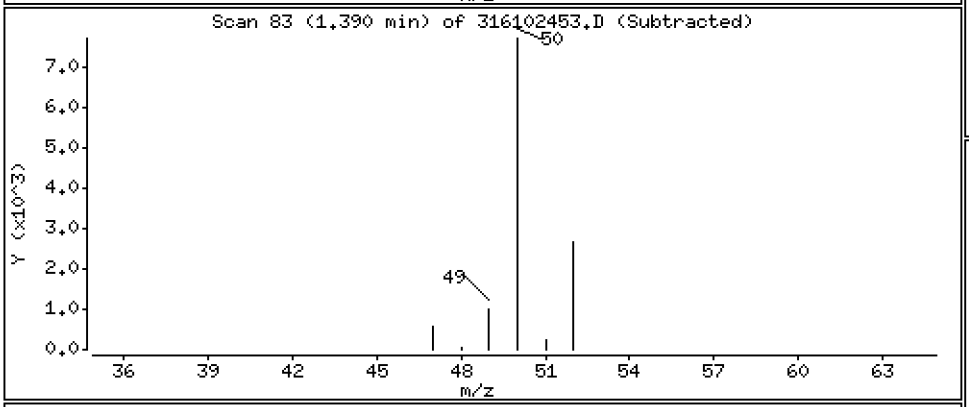
Purge Volume: 5.0 Operator: CJG

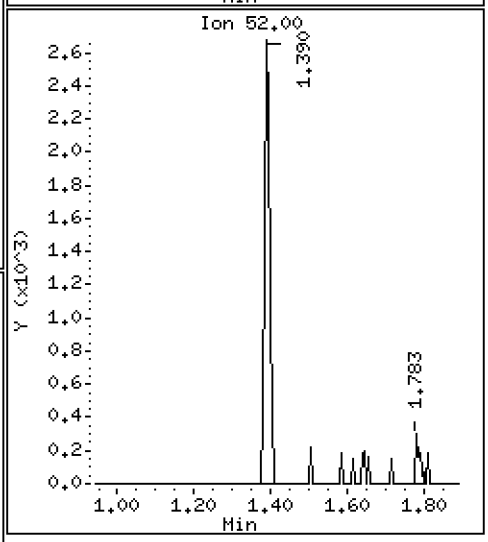
Column phase: DB-VRX Column diameter: 0.25

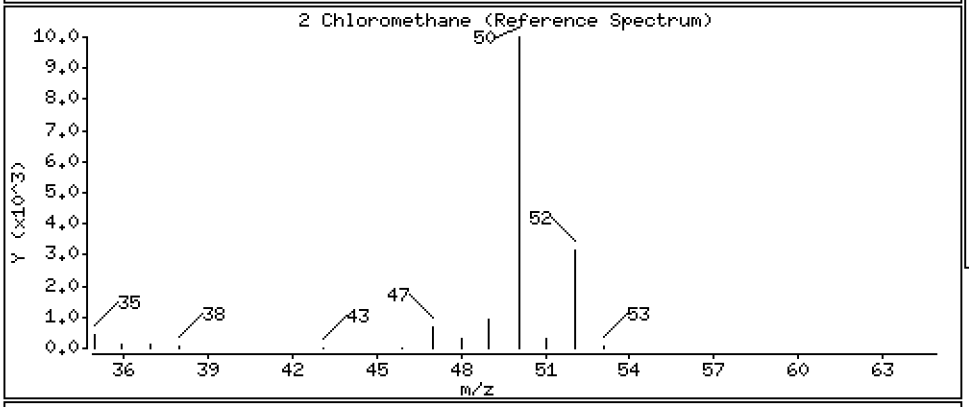
2 Chloromethane Concentration: 0.728619 ug/L

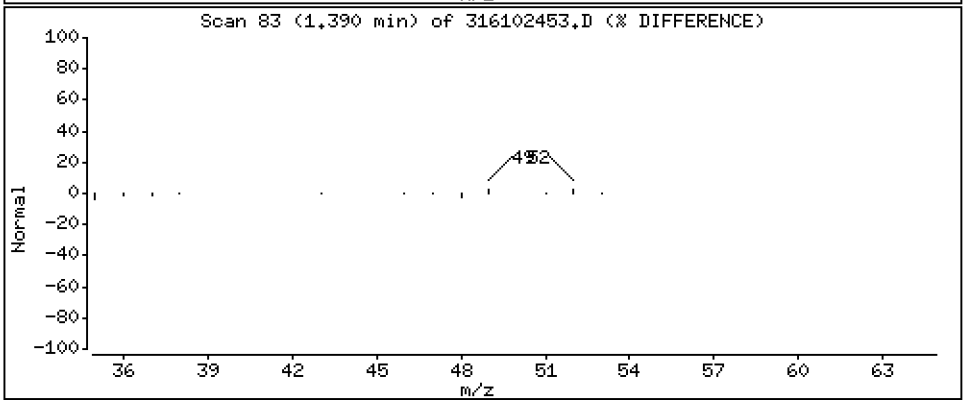












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 11

Date : 24-OCT-2016 23:25

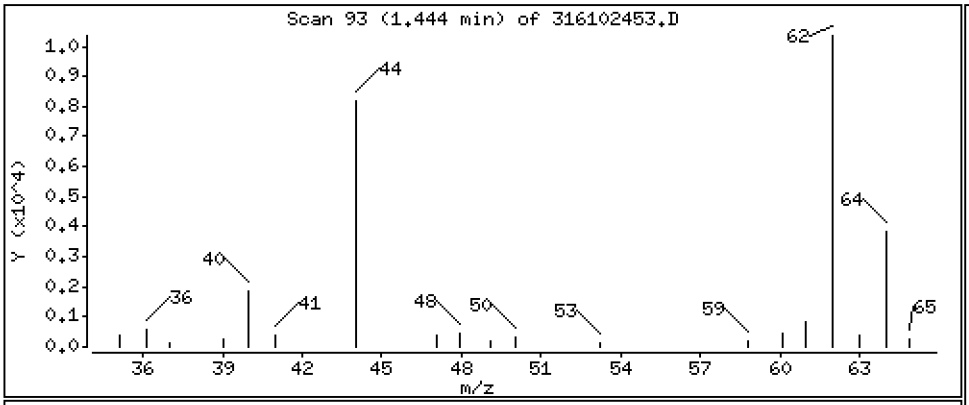
Client ID: Instrument: ms03.i

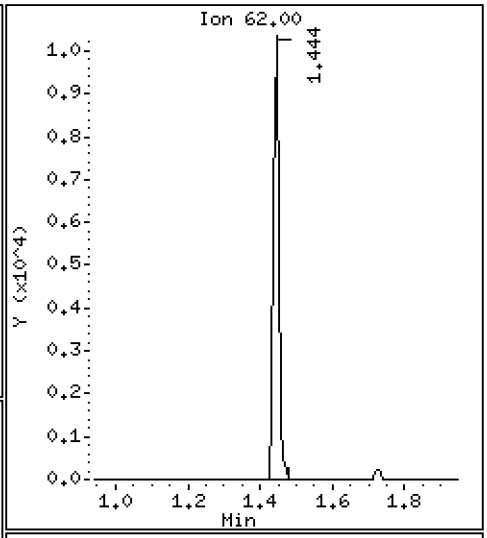
Sample Info: VSTD00.5;;1;1;8;;;

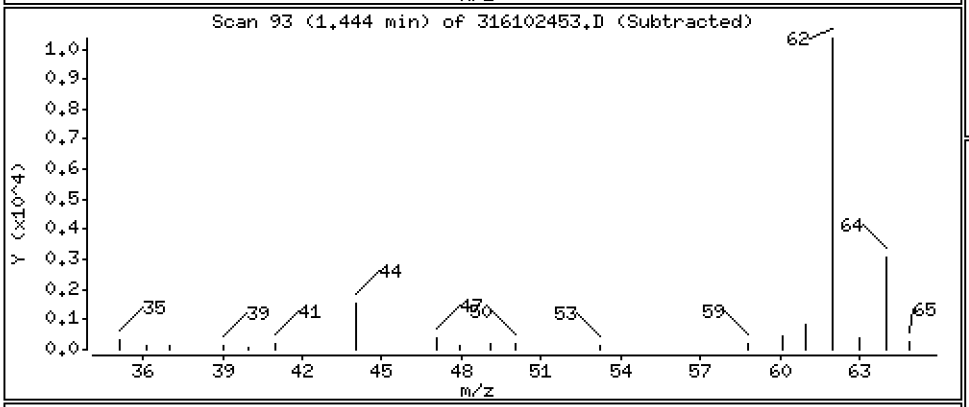
Purge Volume: 5.0 Operator: CJG

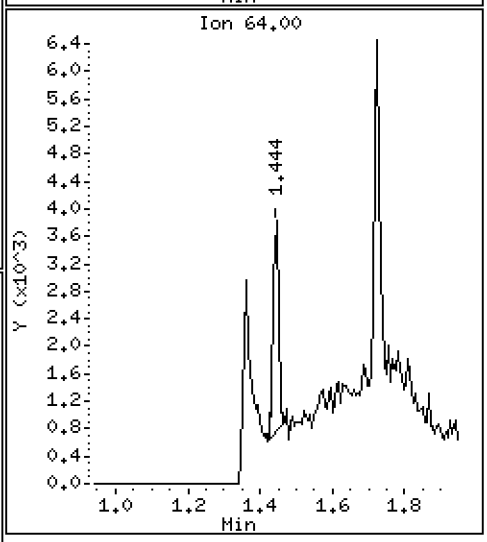
Column phase: DB-VRX Column diameter: 0.25

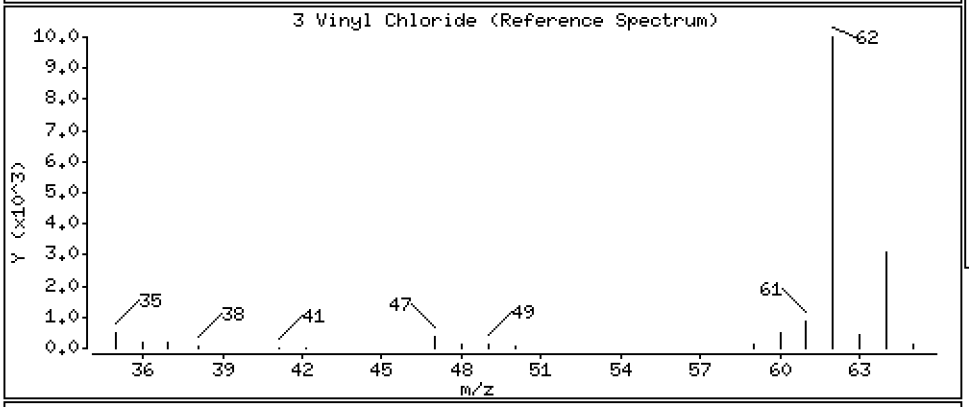
3 Vinyl Chloride Concentration: 0.679652 ug/L

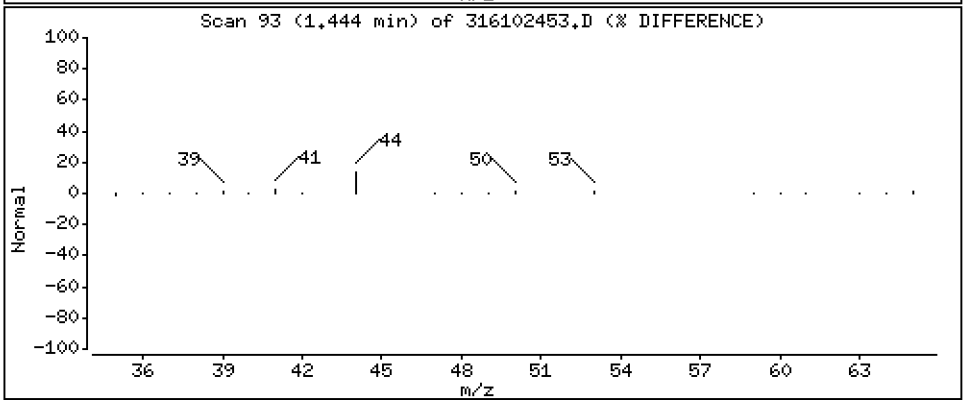












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 12

Date : 24-OCT-2016 23:25

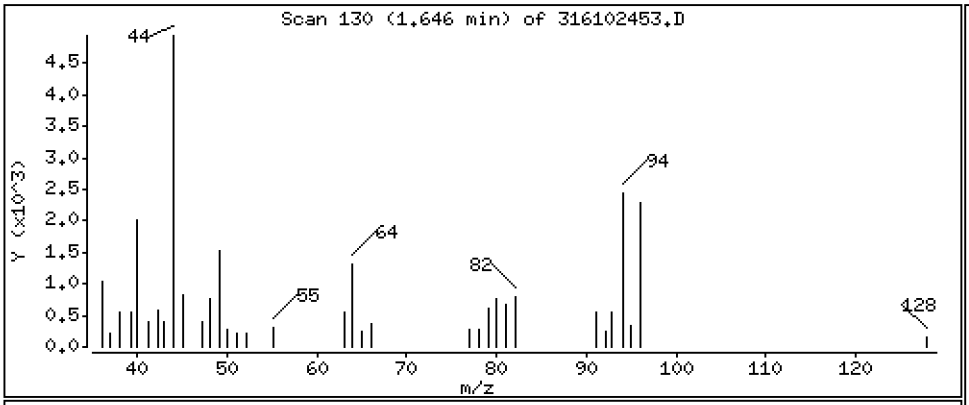
Client ID: Instrument: ms03.i

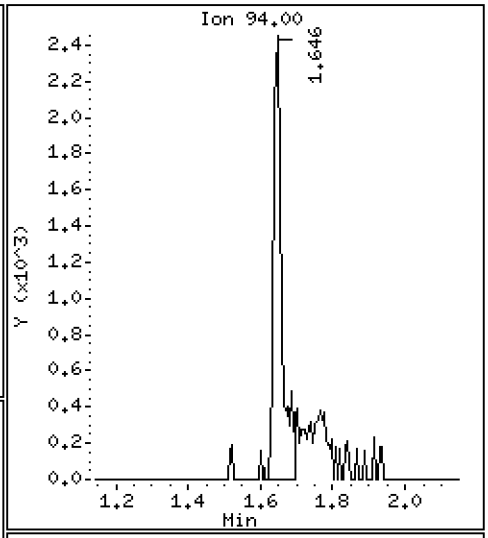
Sample Info: VSTD00.5;;1;1;8;;;

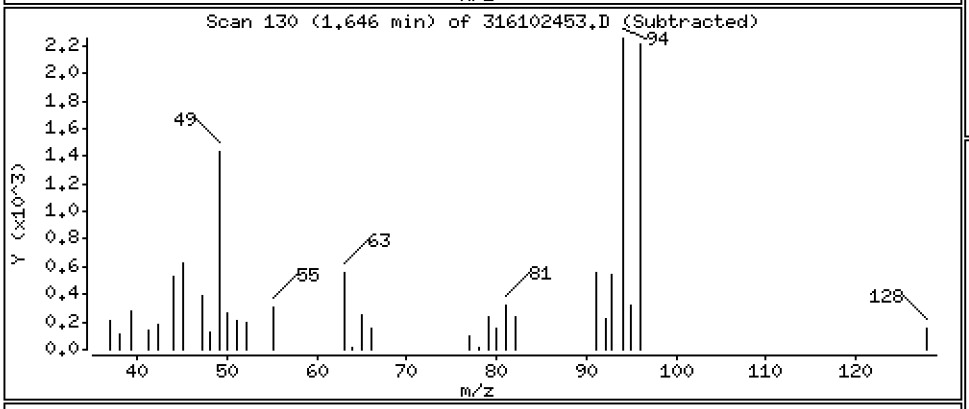
Purge Volume: 5.0 Operator: CJG

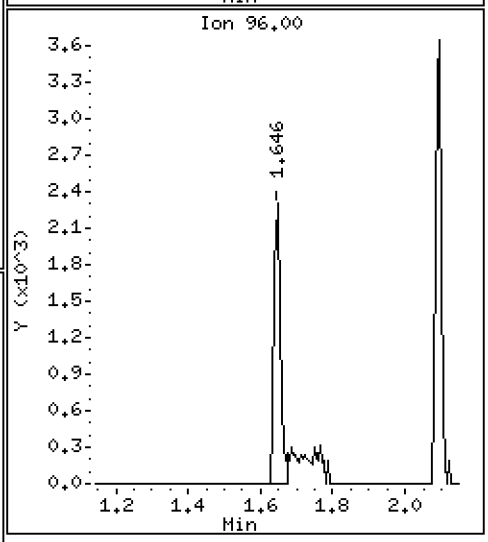
Column phase: DB-VRX Column diameter: 0.25

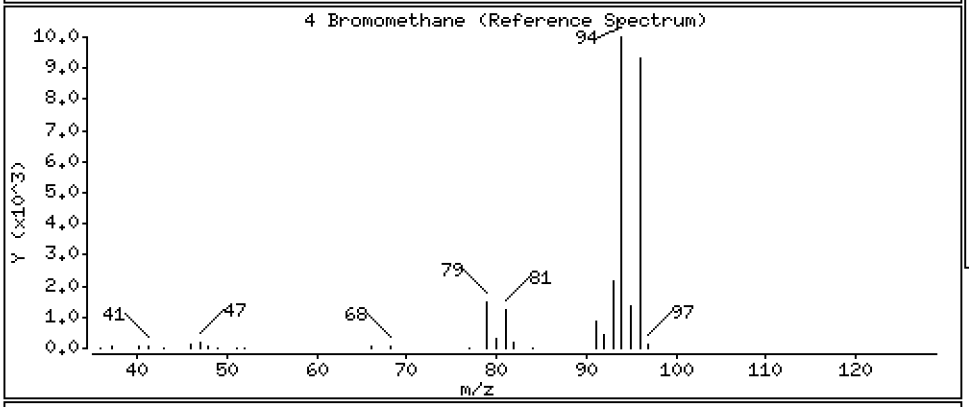
4 Bromomethane Concentration: 0.875039 ug/L

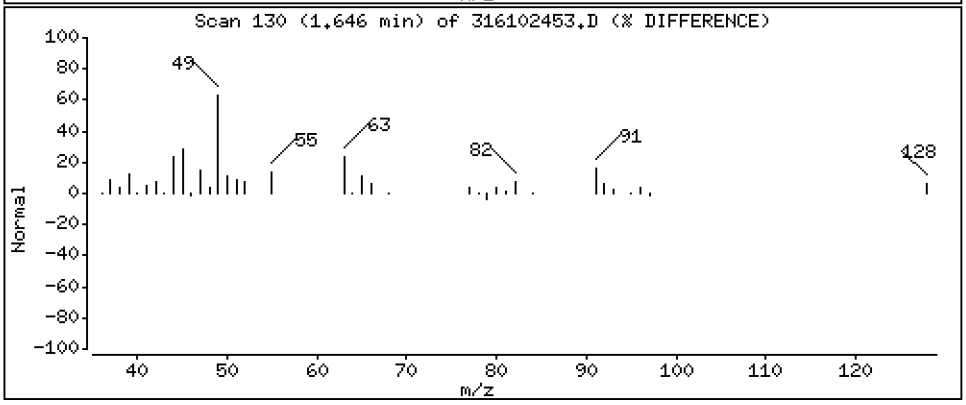












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 13

Date : 24-OCT-2016 23:25

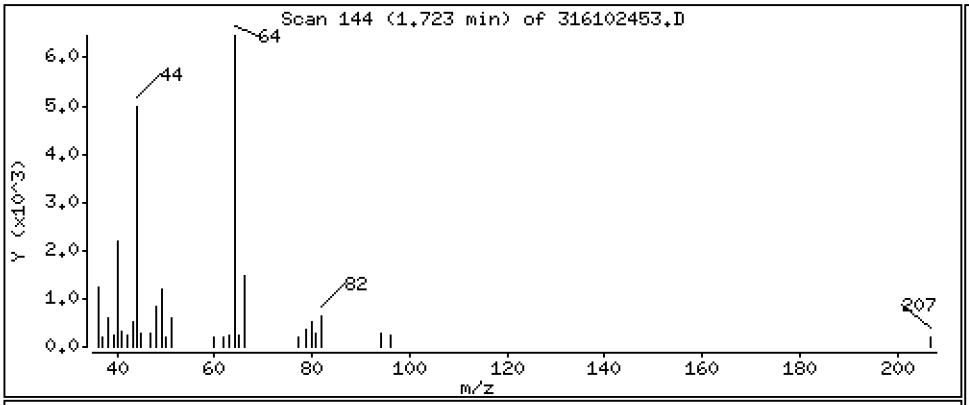
Client ID: Instrument: ms03.i

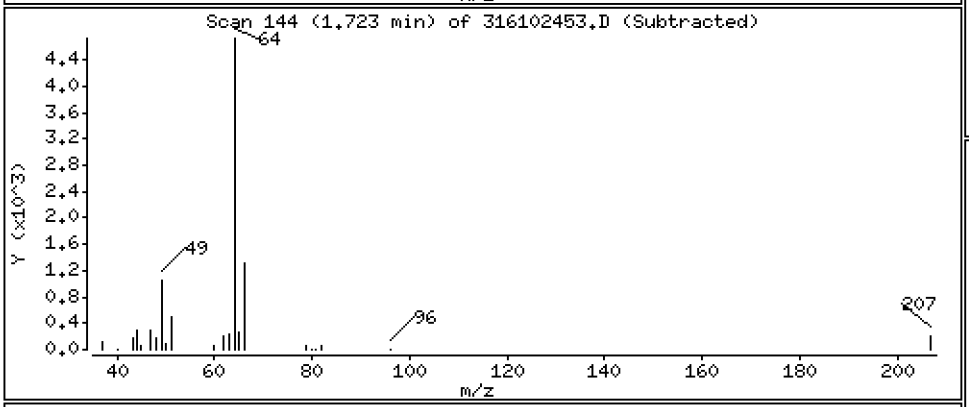
Sample Info: VSTD00.5;;1;1;8;;;

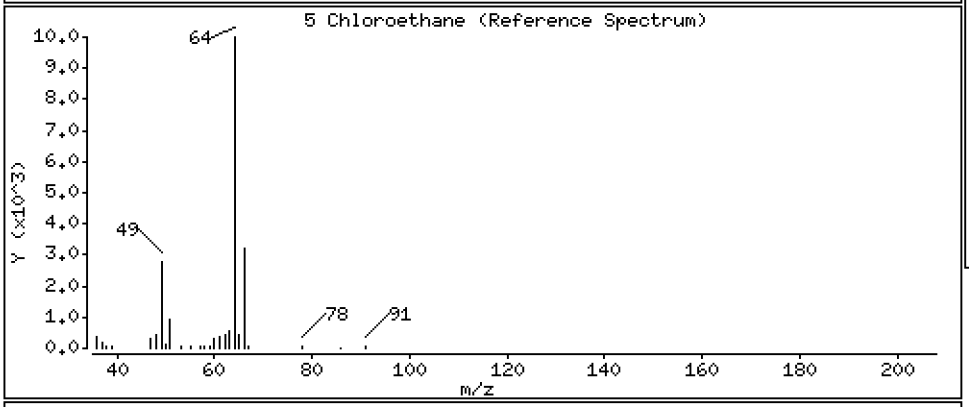
Purge Volume: 5.0 Operator: CJG

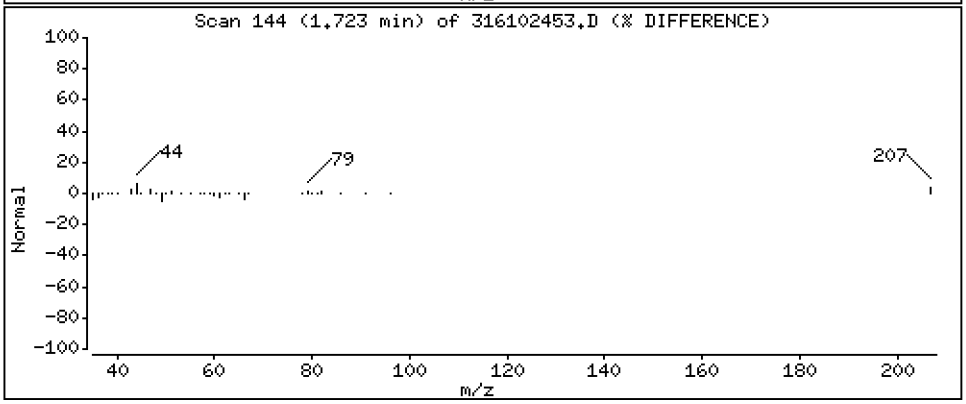
Column phase: DB-VRX Column diameter: 0.25

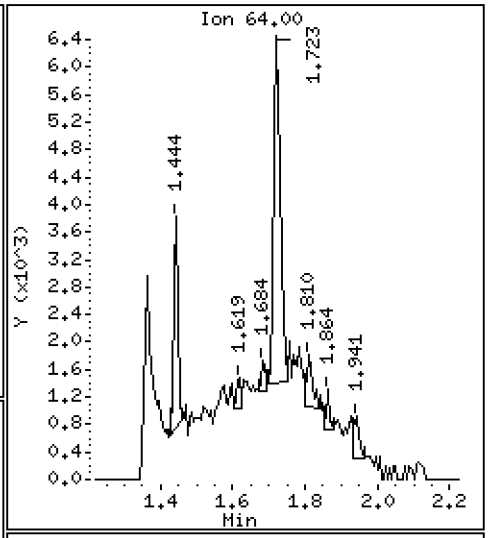
5 Chloroethane Concentration: 0.706730 ug/L

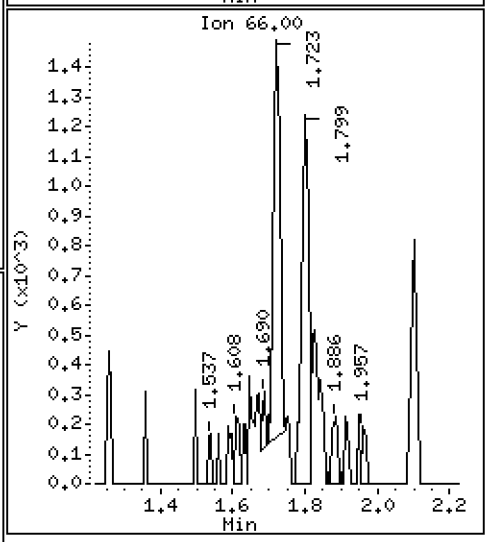












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 14

Date : 24-OCT-2016 23:25

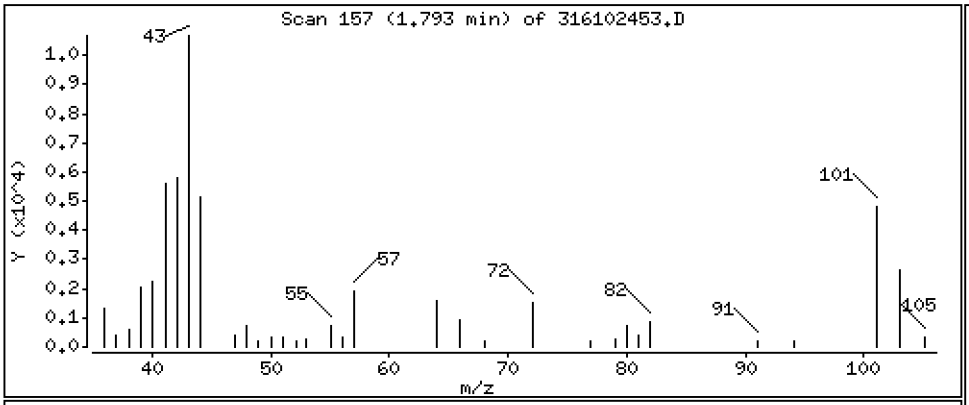
Client ID: Instrument: ms03.i

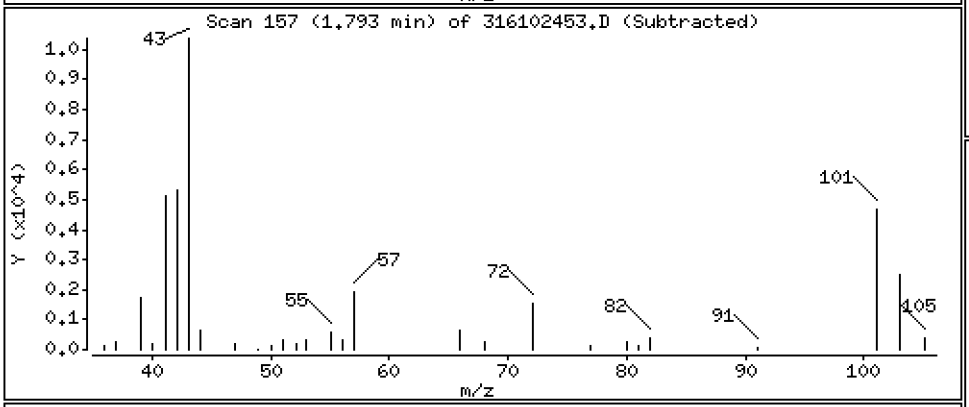
Sample Info: VSTD00.5;;1;1;8;;;

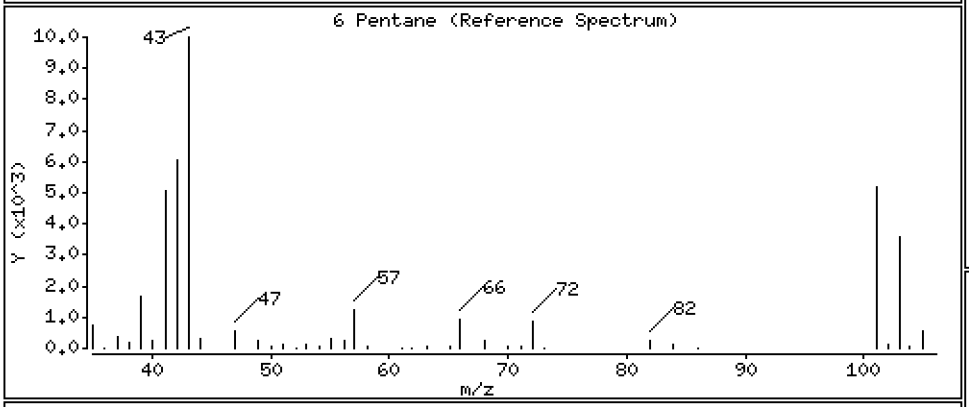
Purge Volume: 5.0 Operator: CJG

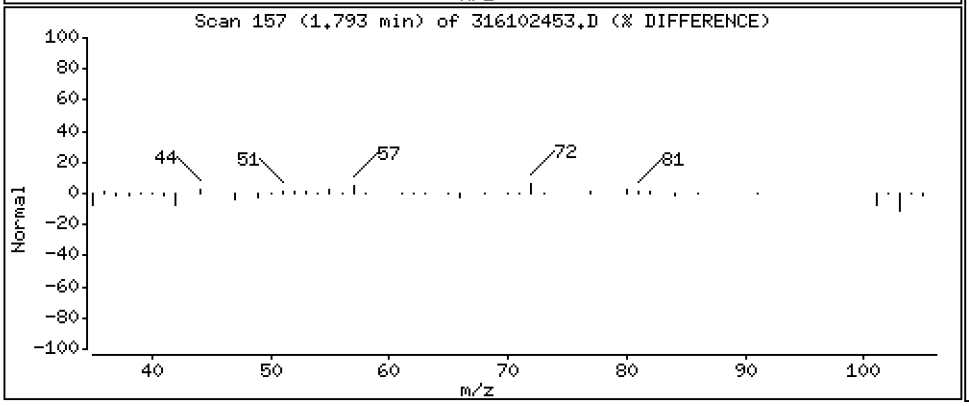
Column phase: DB-VRX Column diameter: 0.25

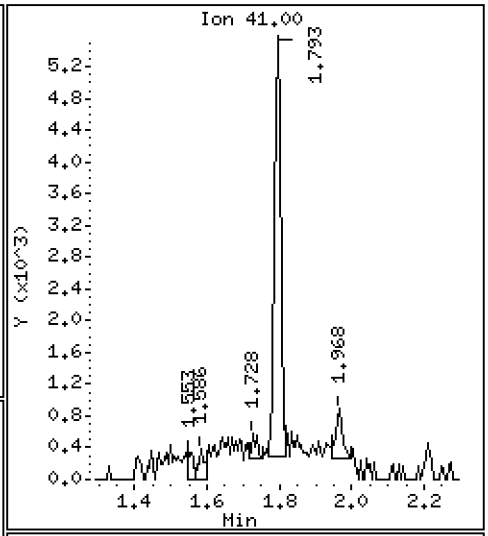
6 Pentane Concentration: 0.812643 ug/L

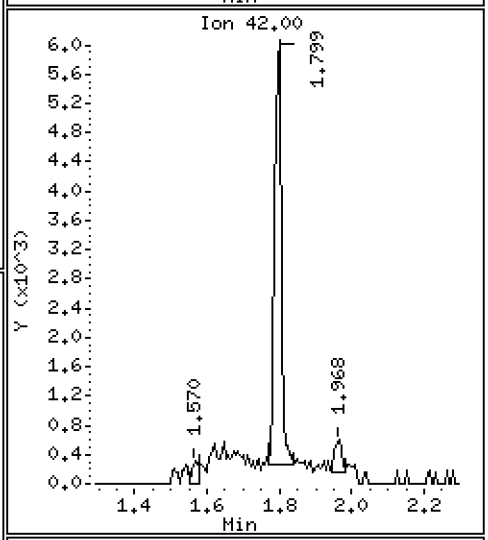


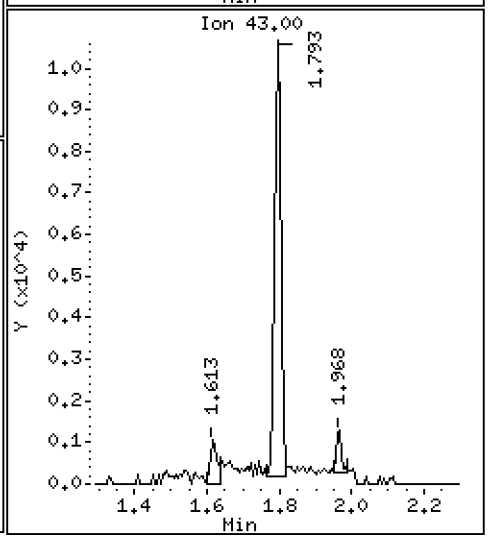












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 15

Date : 24-OCT-2016 23:25

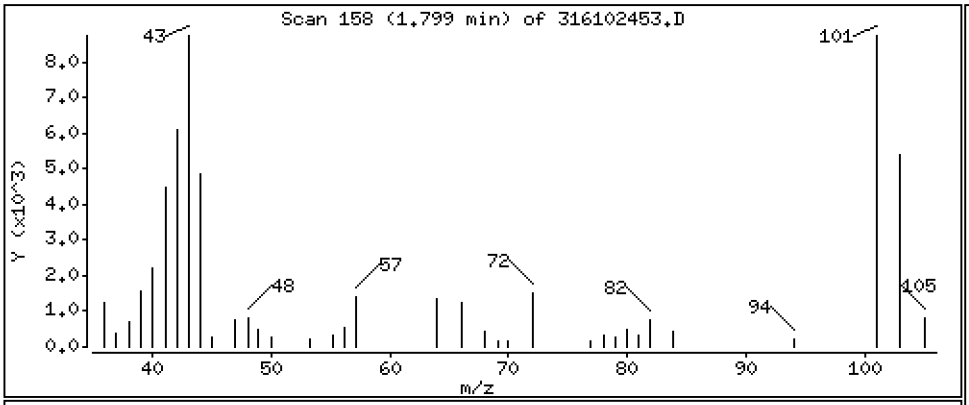
Client ID: Instrument: ms03.i

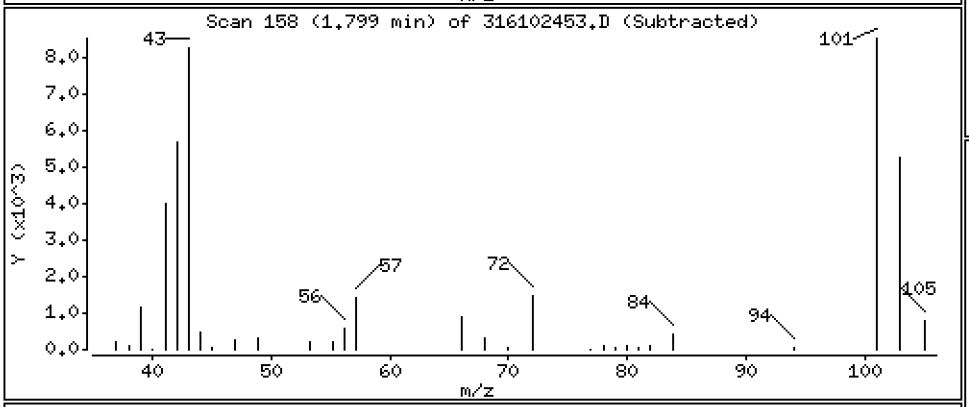
Sample Info: VSTD00.5;;1;1;8;;;

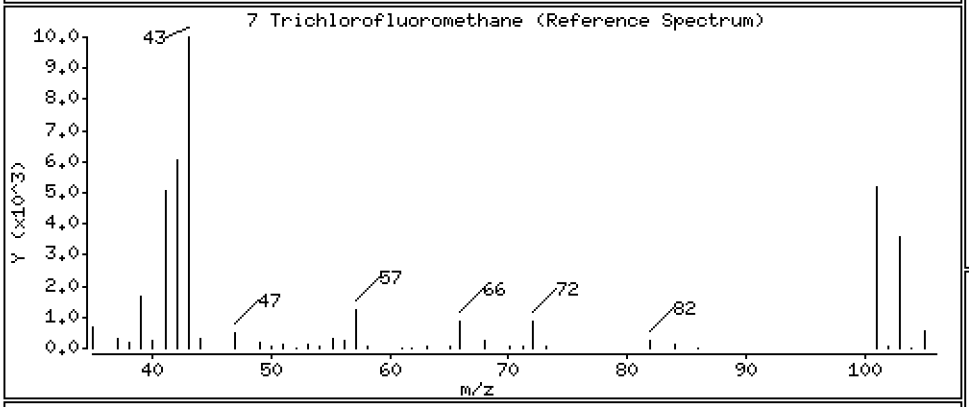
Purge Volume: 5.0 Operator: CJG

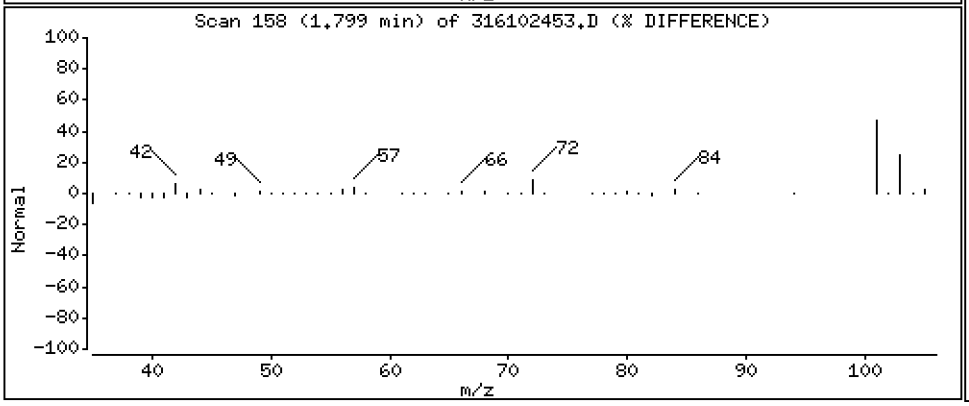
Column phase: DB-VRX Column diameter: 0.25

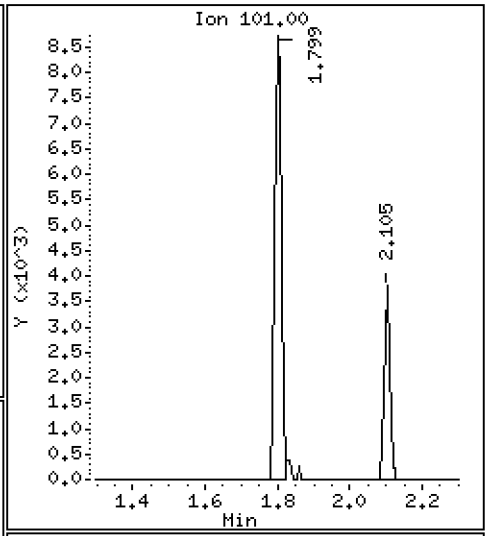
7 Trichlorofluoromethane Concentration: 0.722796 ug/L

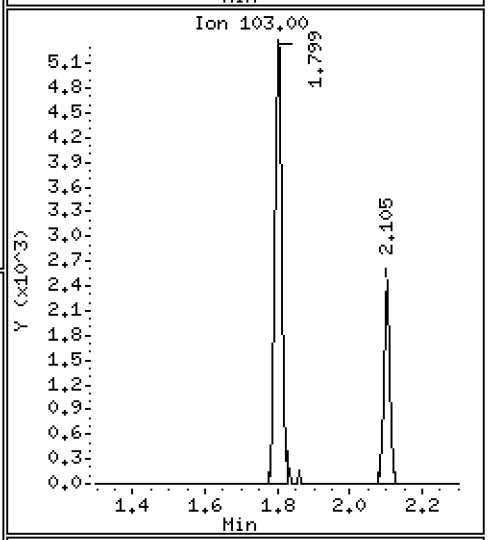


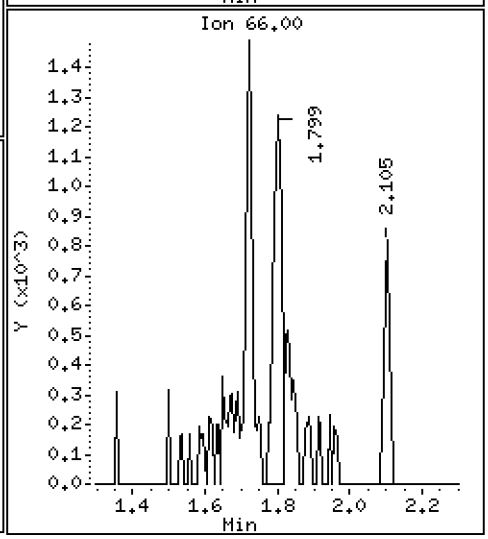












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 16

Date : 24-OCT-2016 23:25

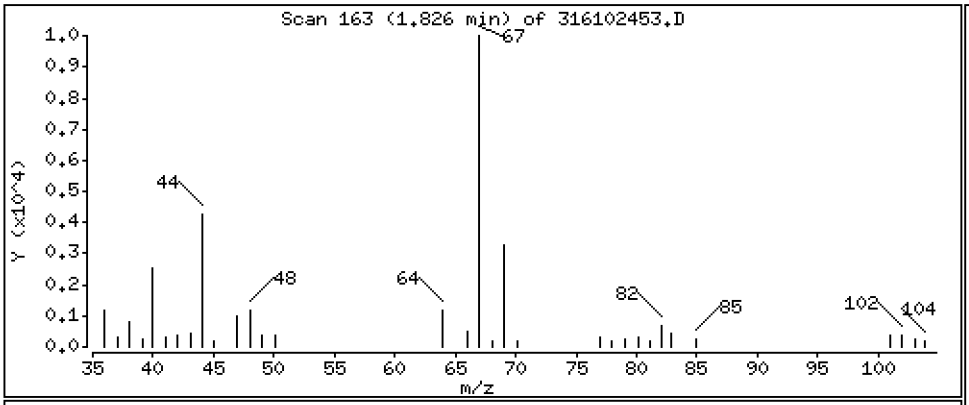
Client ID: Instrument: ms03.i

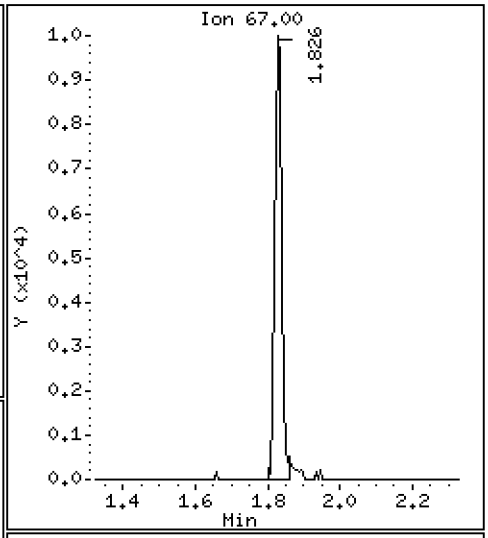
Sample Info: VSTD00.5;;1;1;8;;;

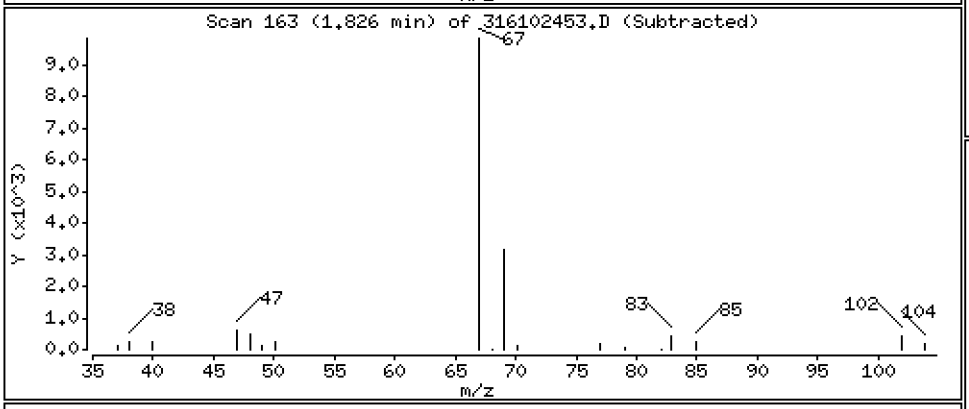
Purge Volume: 5.0 Operator: CJG

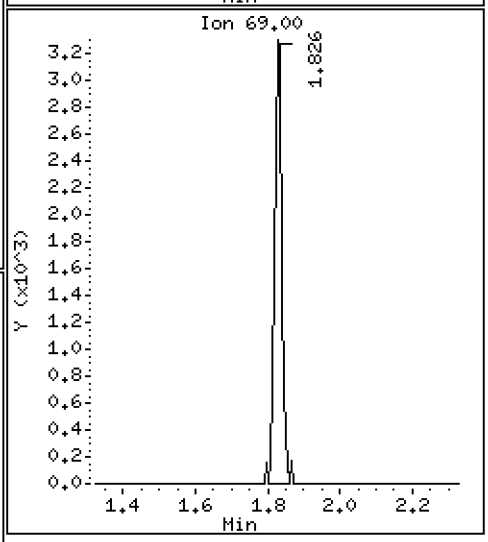
Column phase: DB-VRX Column diameter: 0.25

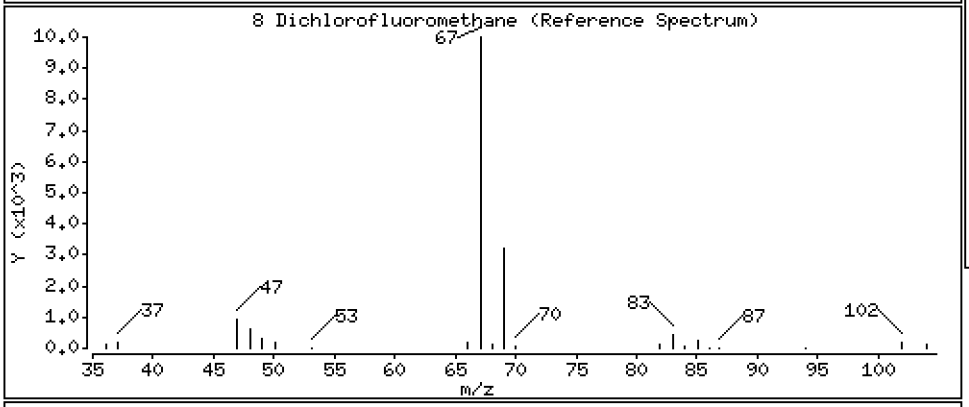
8 Dichlorofluoromethane Concentration: 0.670215 ug/L

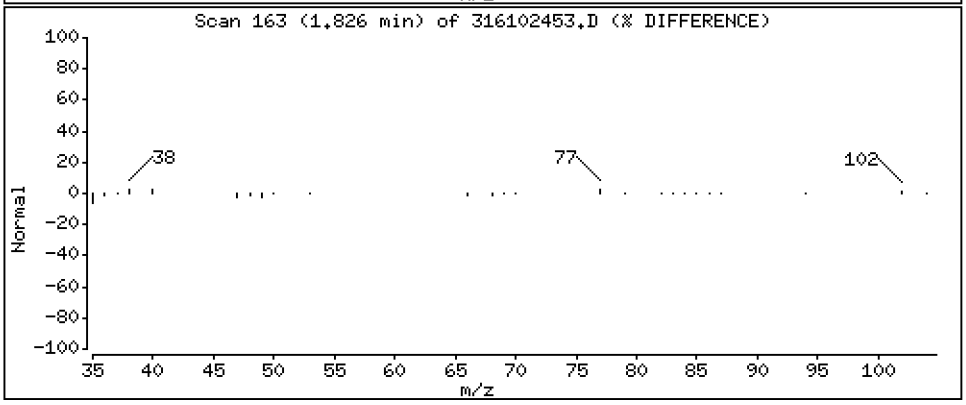












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 17

Date : 24-OCT-2016 23:25

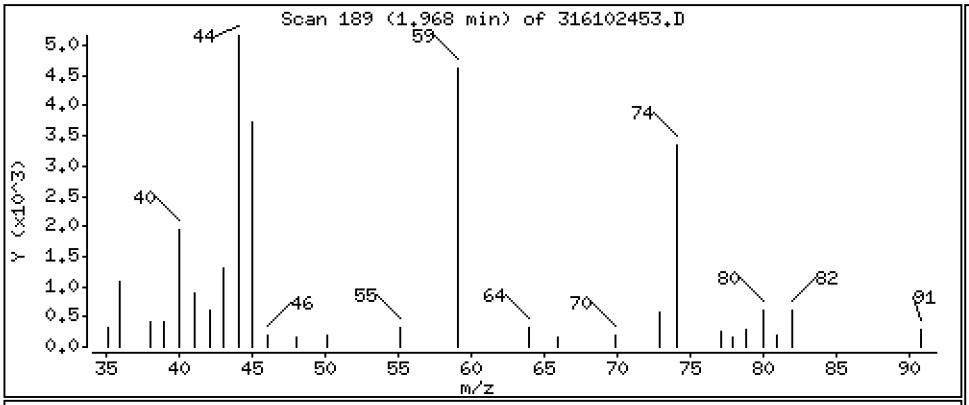
Client ID: Instrument: ms03.i

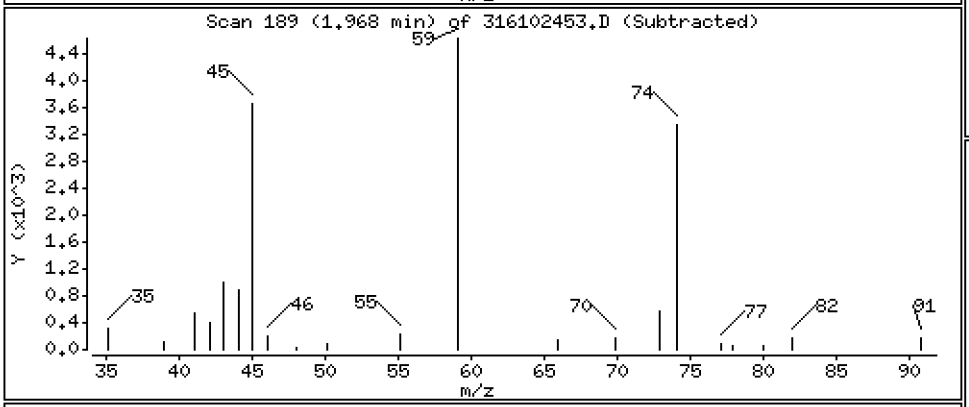
Sample Info: VSTD00.5;;1;1;8;;;

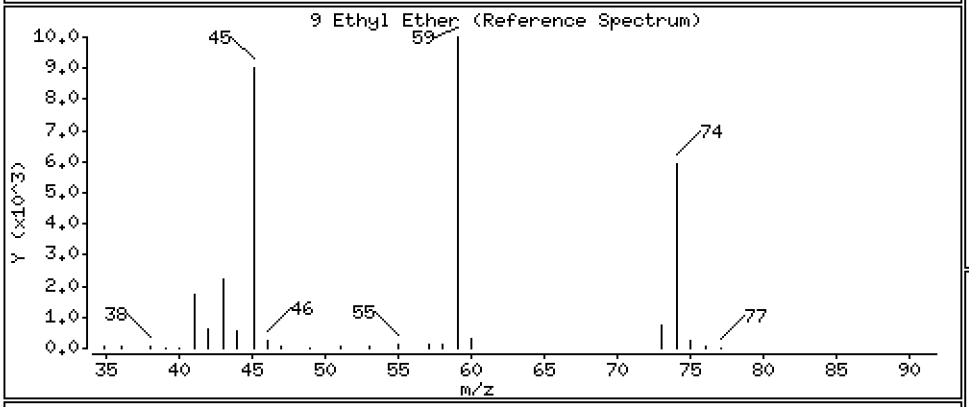
Purge Volume: 5.0 Operator: CJG

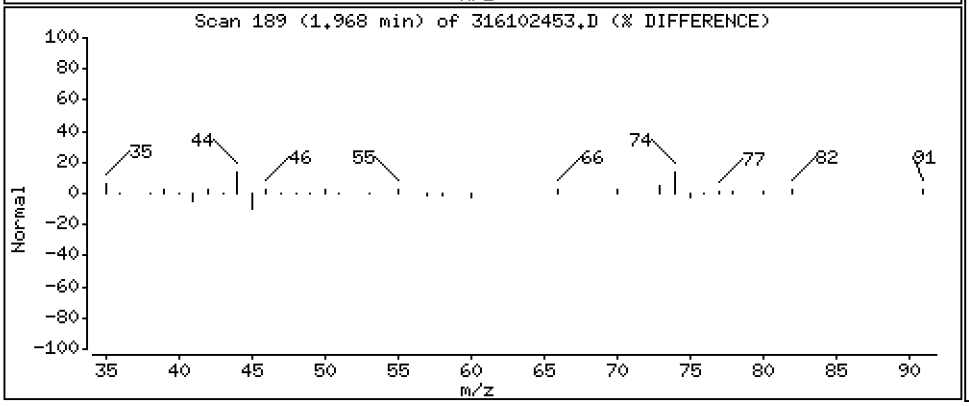
Column phase: DB-VRX Column diameter: 0.25

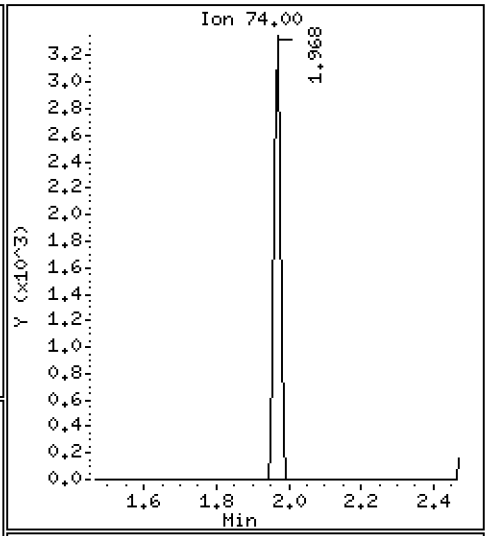
9 Ethyl Ether Concentration: 0.635084 ug/L

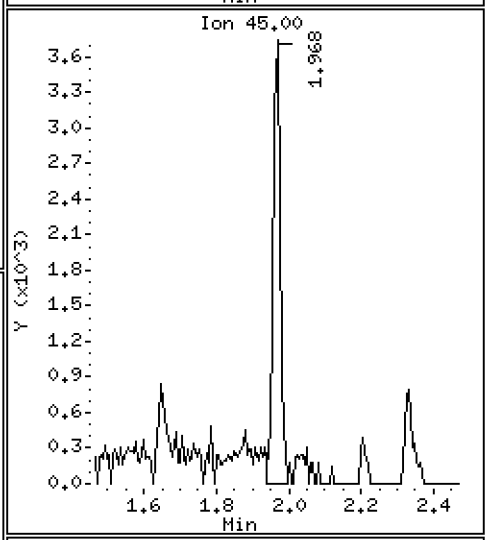


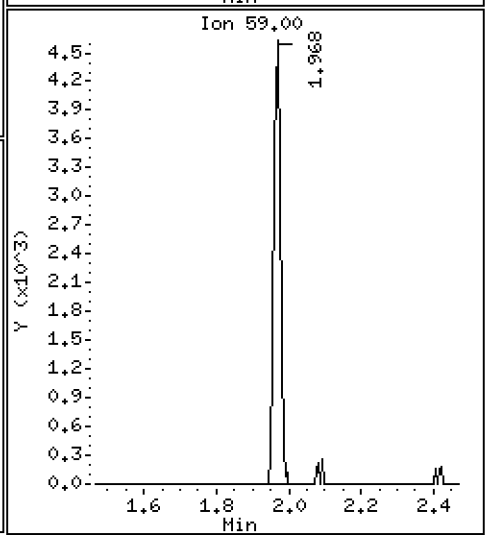












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 18

Date : 24-OCT-2016 23:25

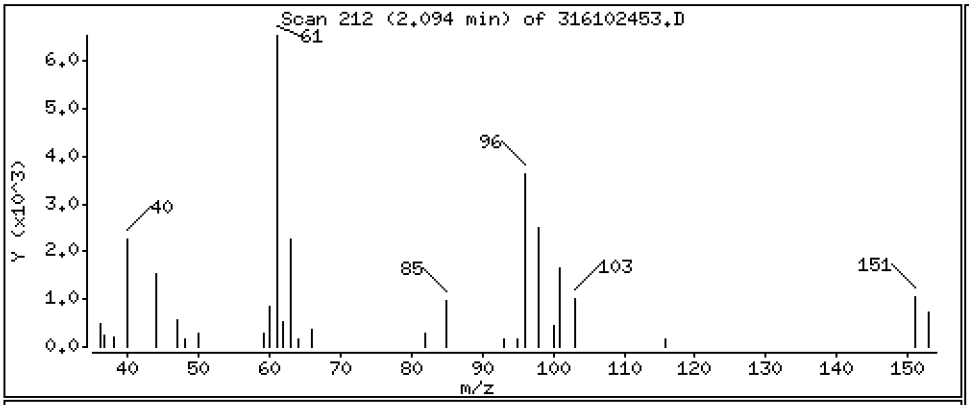
Client ID: Instrument: ms03.i

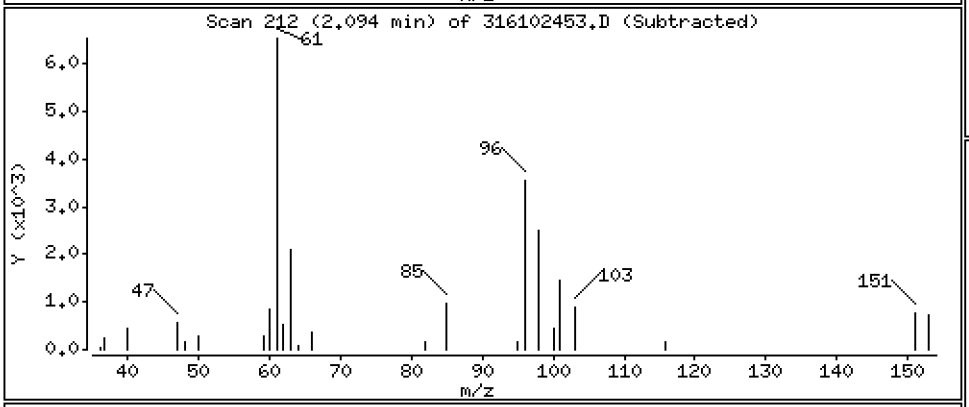
Sample Info: VSTD00.5;;1;1;8;;;

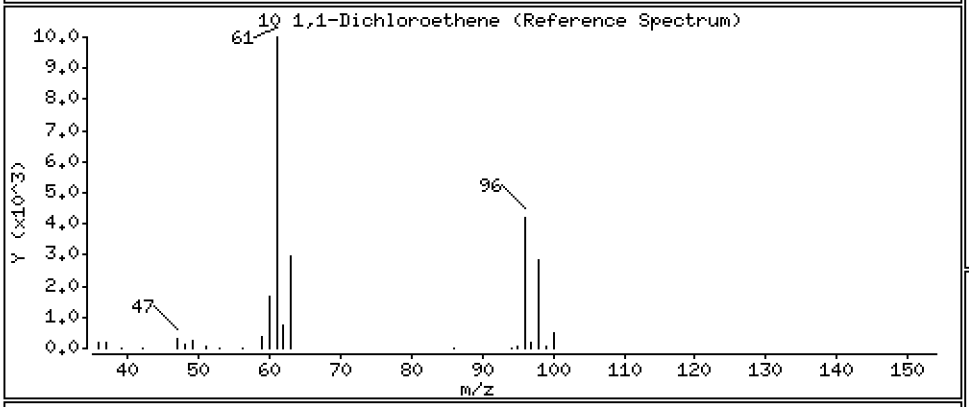
Purge Volume: 5.0 Operator: CJG

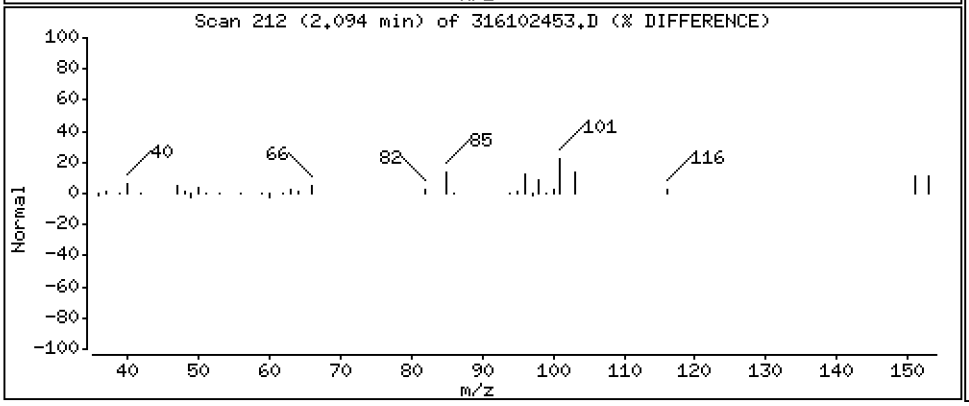
Column phase: DB-VRX Column diameter: 0.25

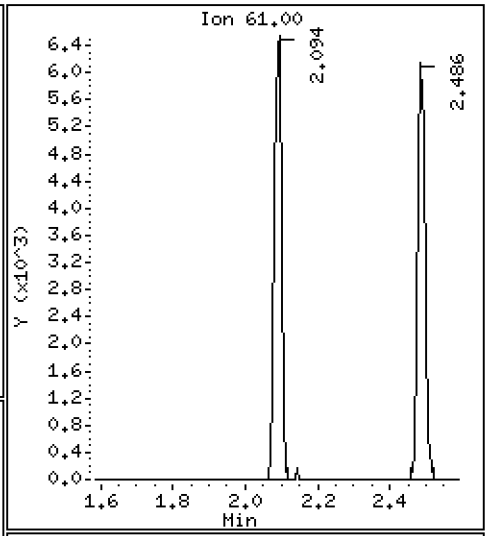
10 1,1-Dichloroethene Concentration: 0.667648 ug/L

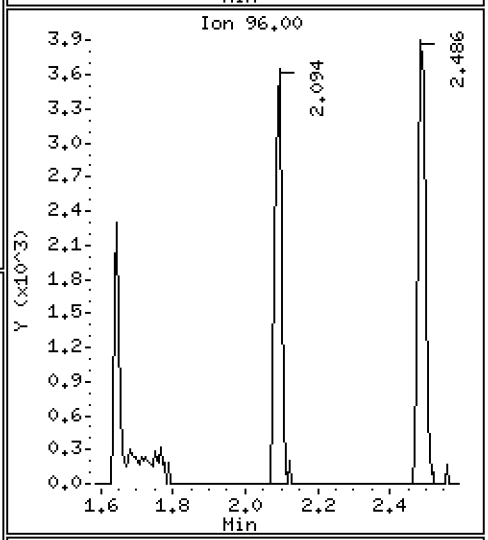


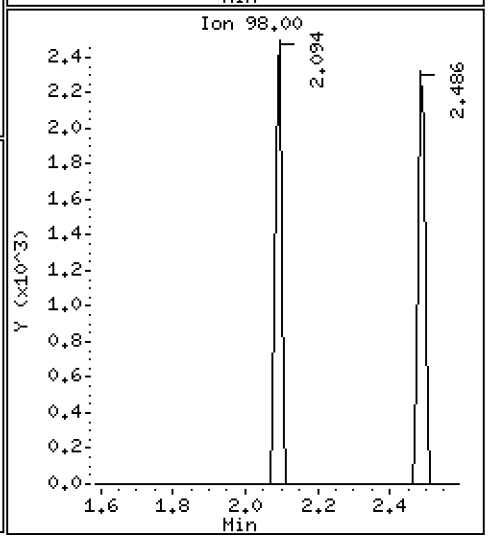












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 19

Date : 24-OCT-2016 23:25

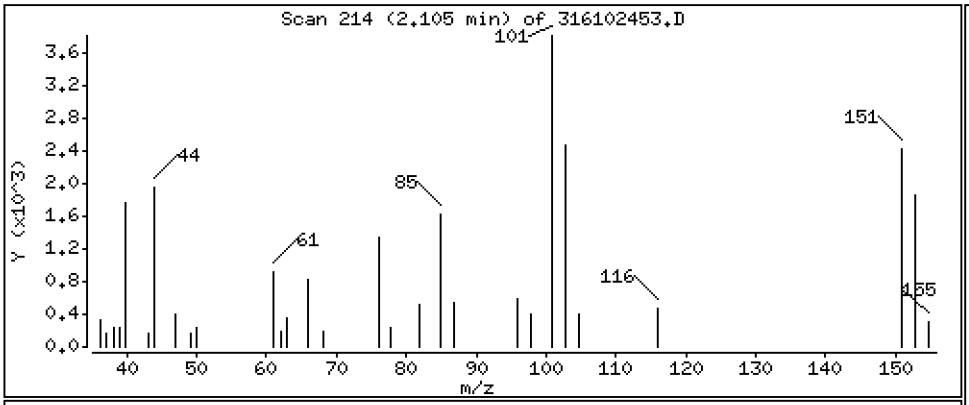
Client ID: Instrument: ms03.i

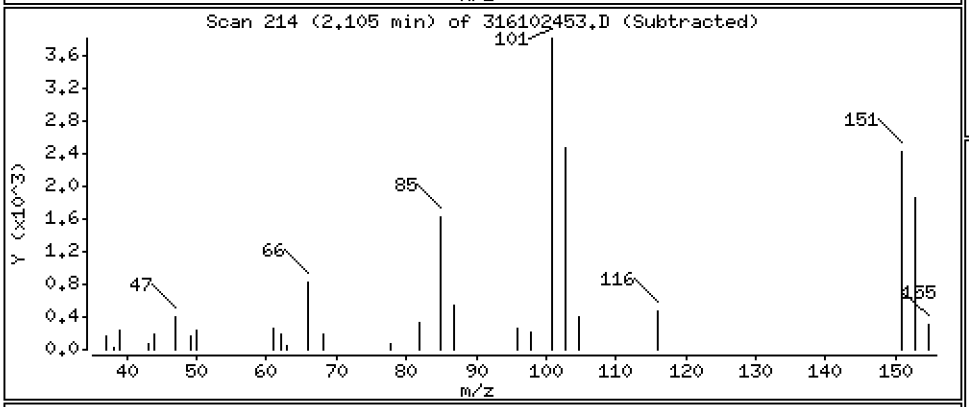
Sample Info: VSTD00.5;;1;1;8;;;

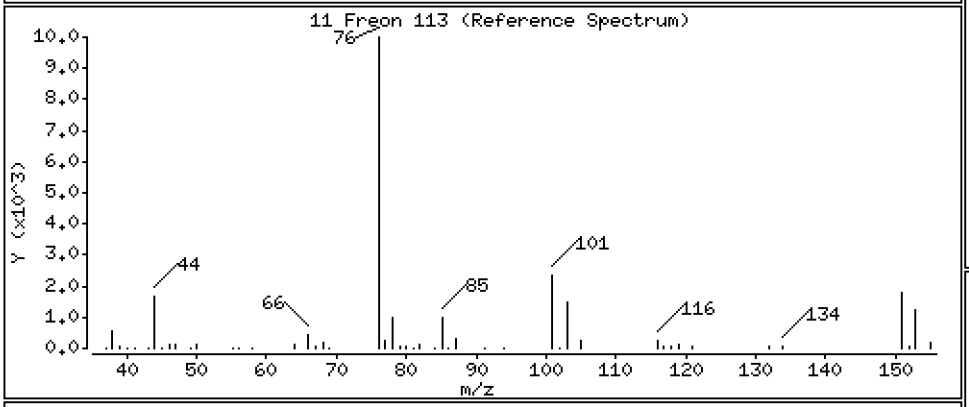
Purge Volume: 5.0 Operator: CJG

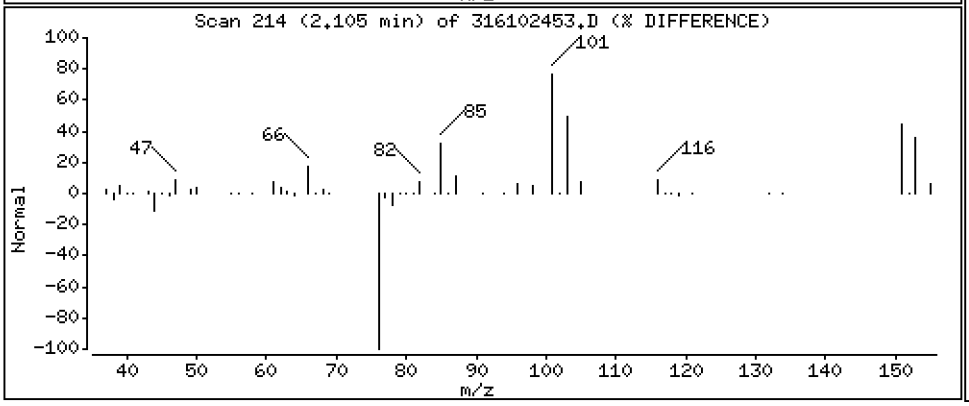
Column phase: DB-VRX Column diameter: 0.25

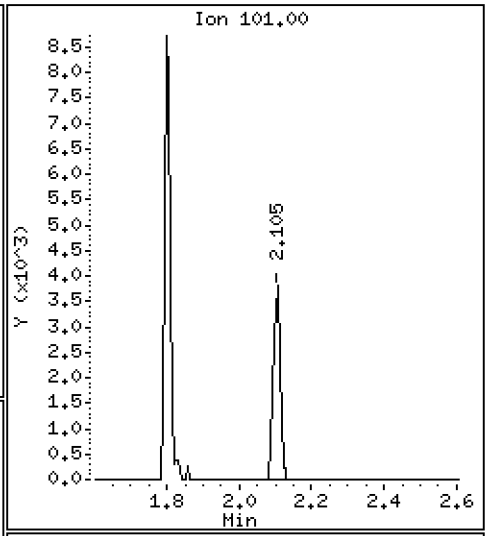
11 Freon 113 Concentration: 0.687634 ug/L

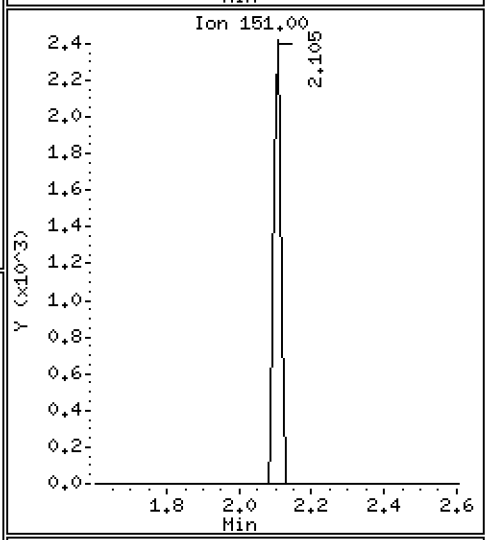


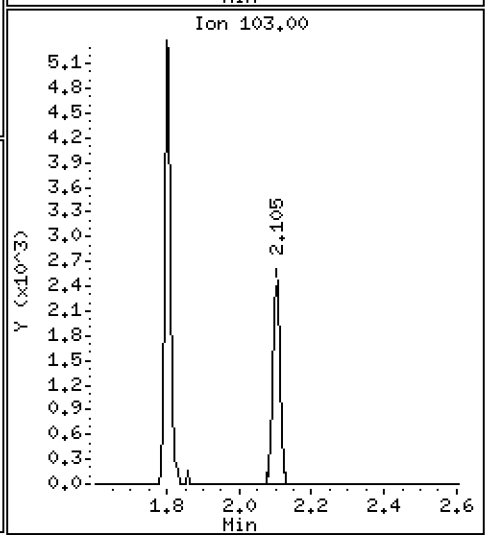












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 20

Date : 24-OCT-2016 23:25

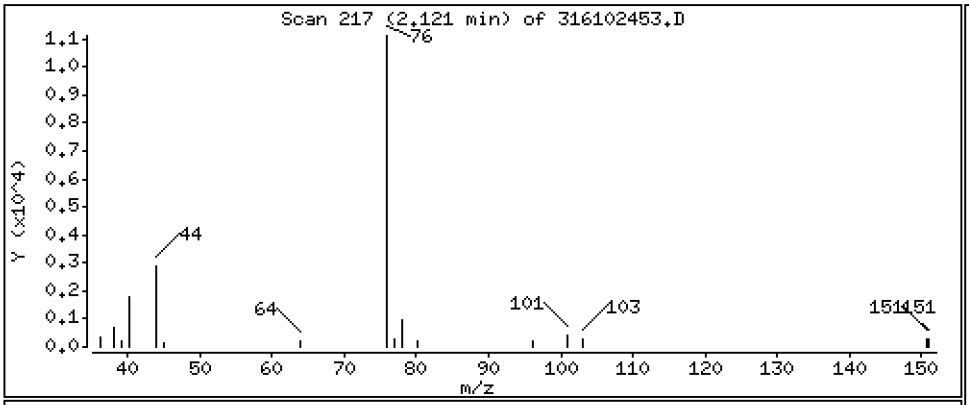
Client ID: Instrument: ms03.i

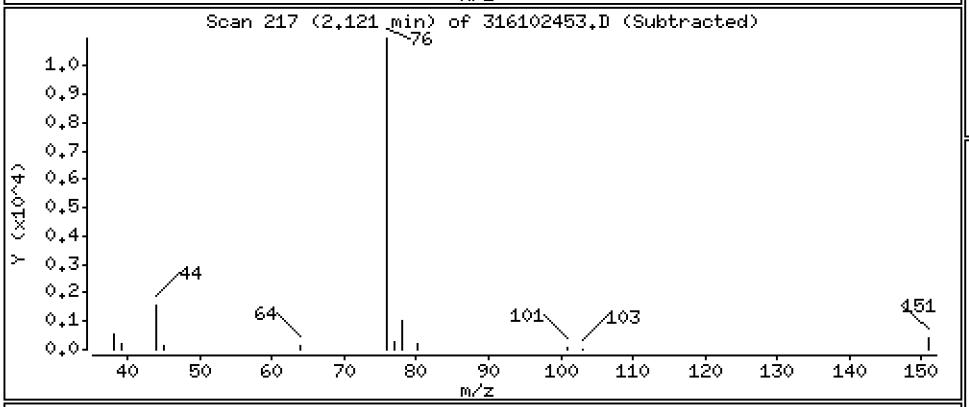
Sample Info: VSTD00.5;;1;1;8;;;

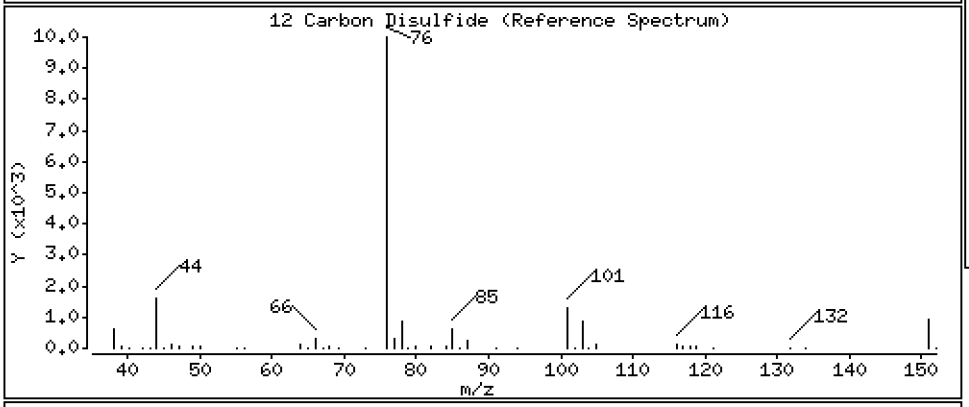
Purge Volume: 5.0 Operator: CJG

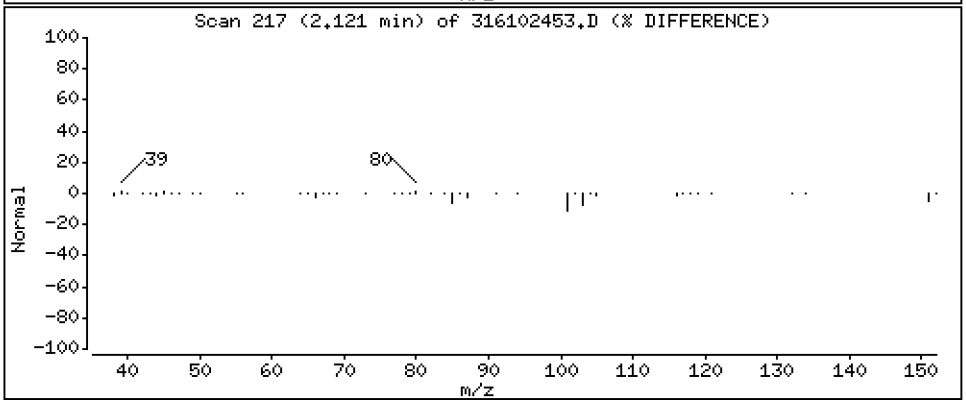
Column phase: DB-VRX Column diameter: 0.25

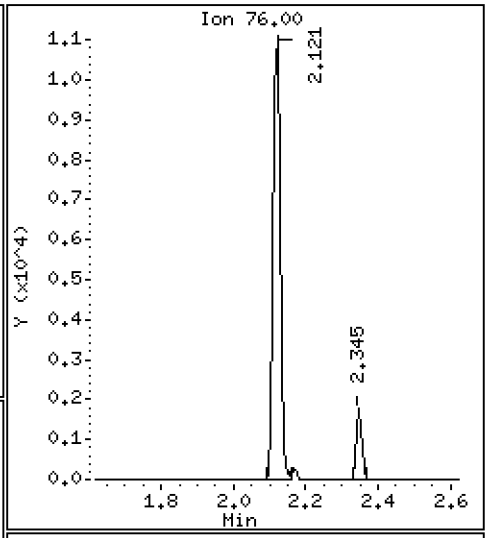
12 Carbon Disulfide Concentration: 0.613565 ug/L

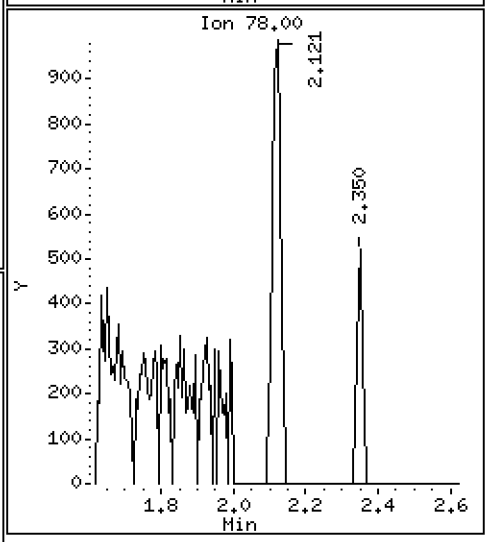












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 21

Date : 24-OCT-2016 23:25

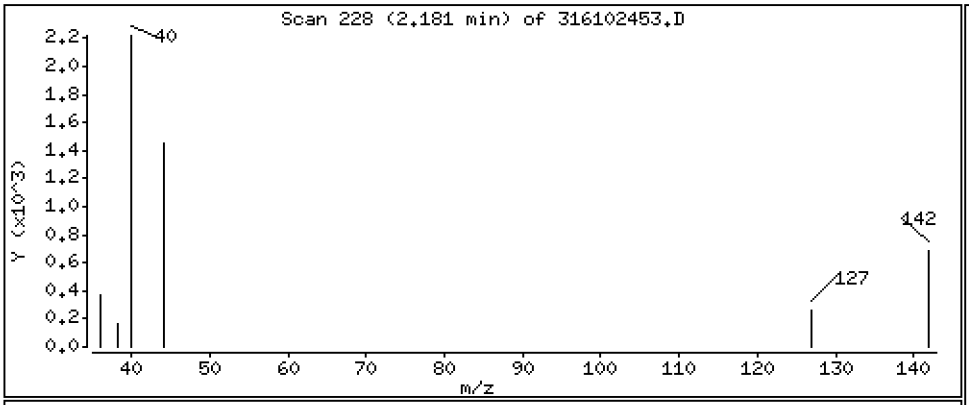
Client ID: Instrument: ms03.i

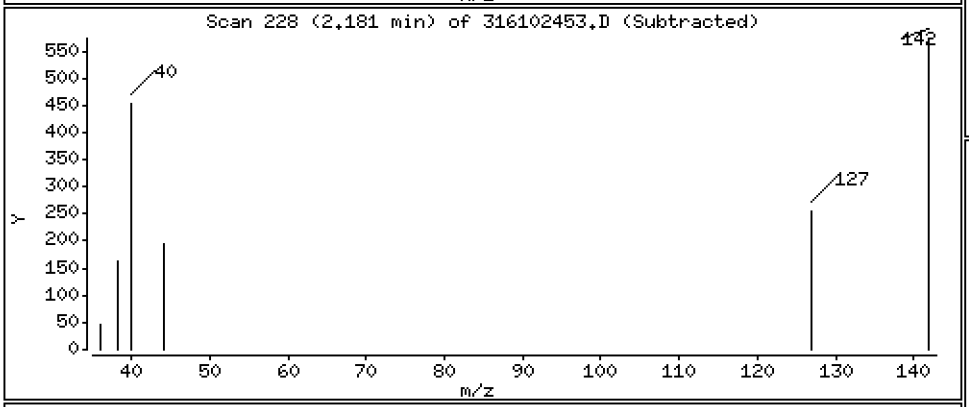
Sample Info: VSTD00.5;;1;1;8;;;

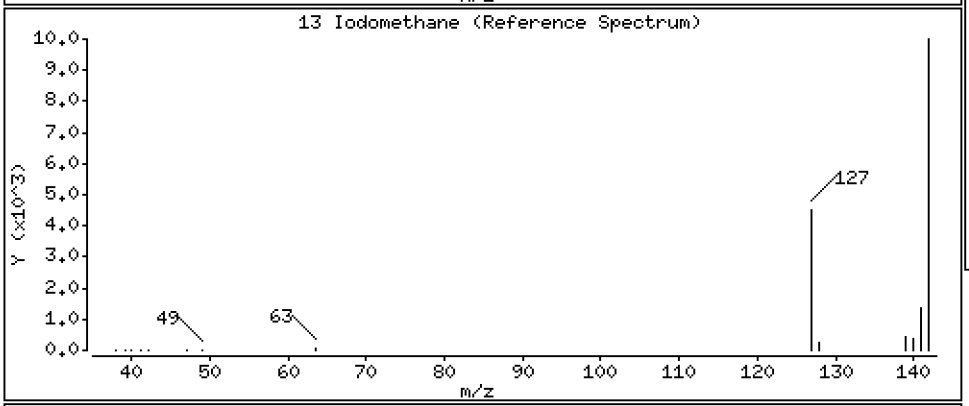
Purge Volume: 5.0 Operator: CJG

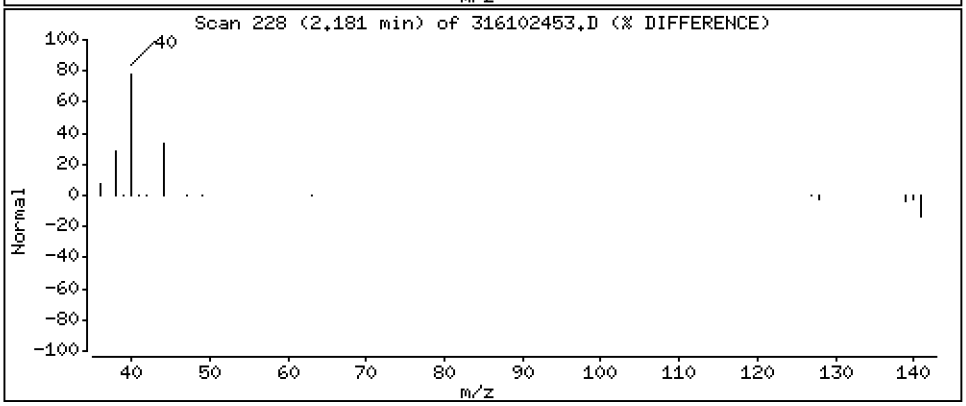
Column phase: DB-VRX Column diameter: 0.25

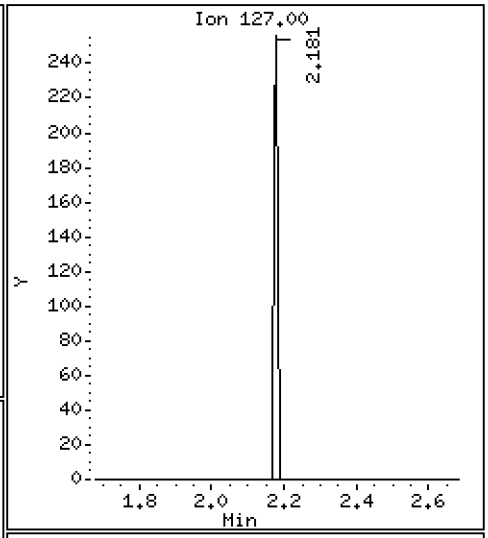
13 Iodomethane Concentration: 2.91993 ug/L

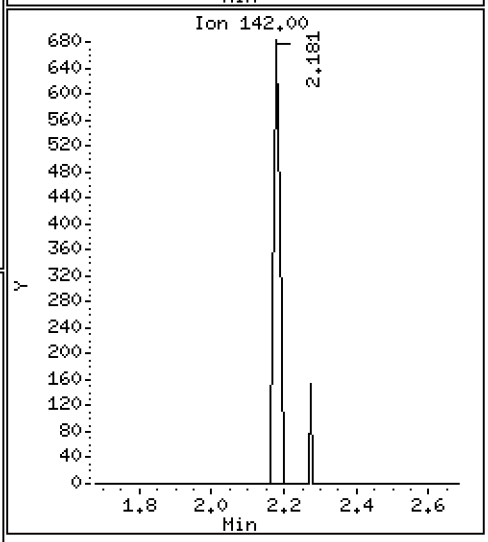












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 22

Date : 24-OCT-2016 23:25

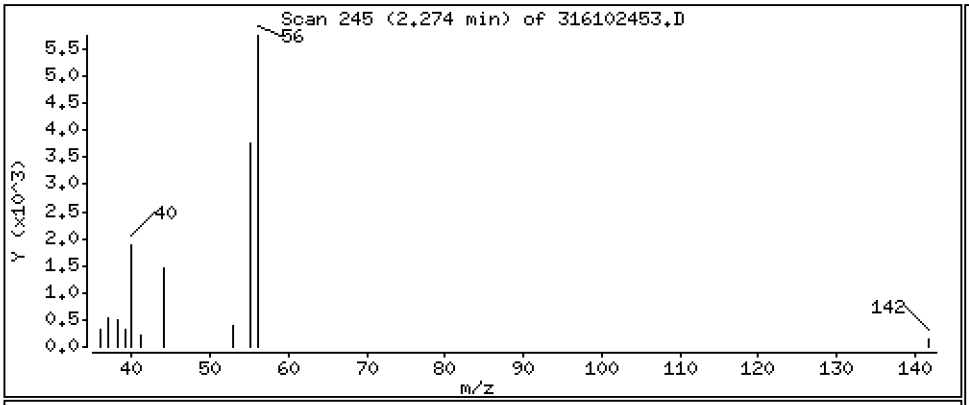
Client ID: Instrument: ms03.i

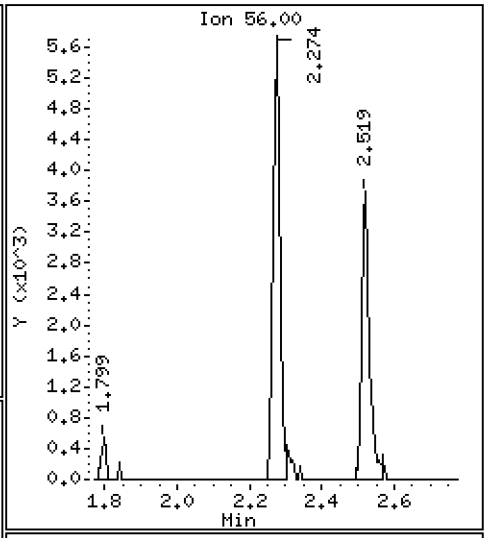
Sample Info: VSTD00.5;;1;1;8;;;

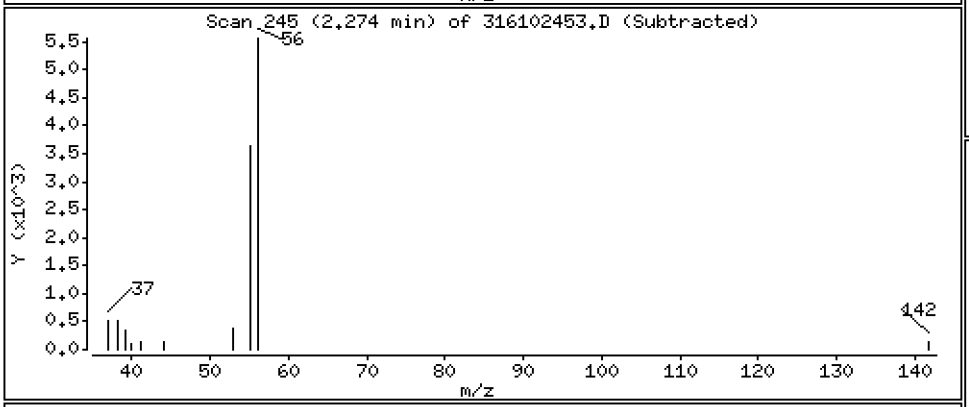
Purge Volume: 5.0 Operator: CJG

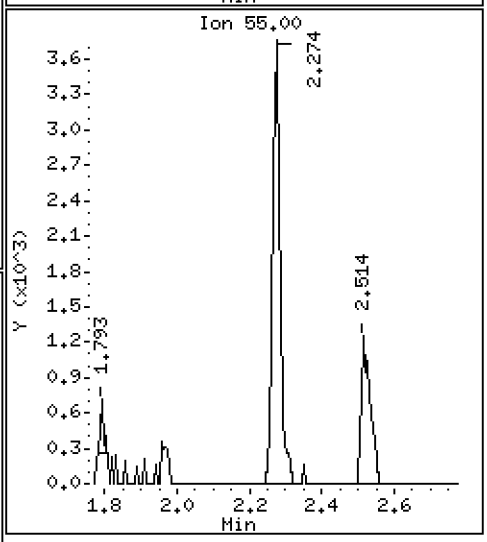
Column phase: DB-VRX Column diameter: 0.25

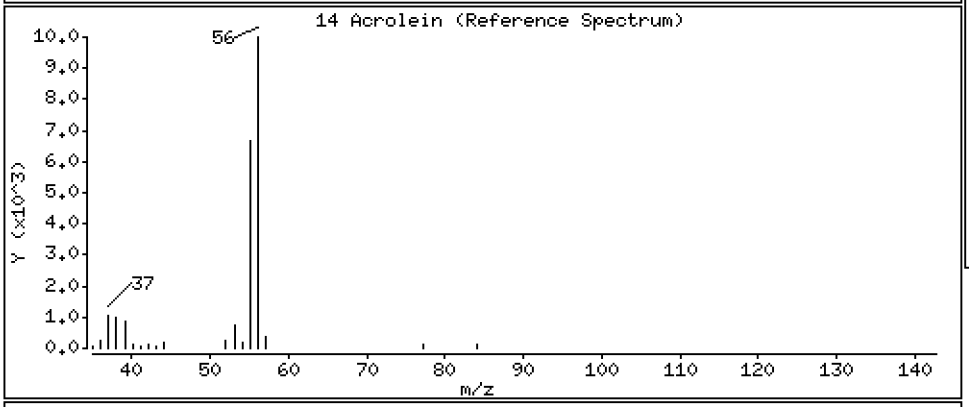
14 Acrolein Concentration: 5.45589 ug/L

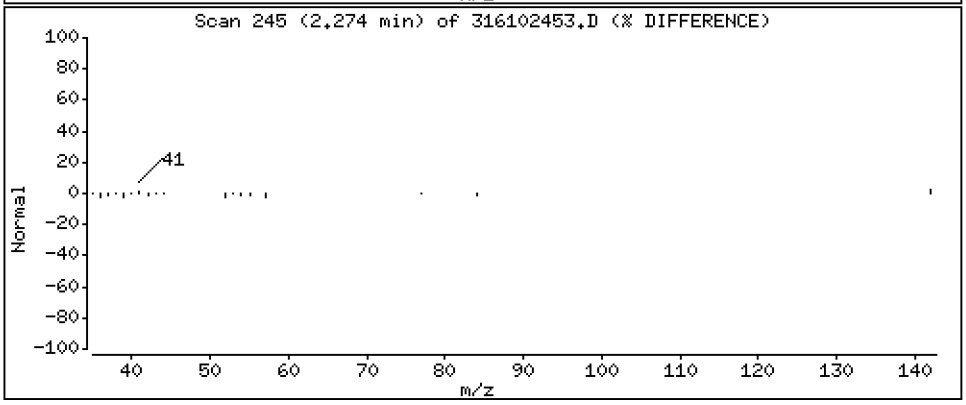












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 23

Date : 24-OCT-2016 23:25

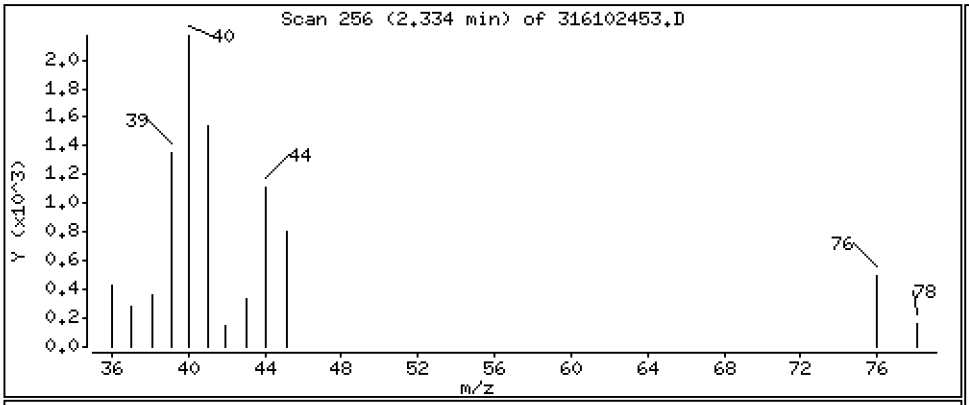
Client ID: Instrument: ms03.i

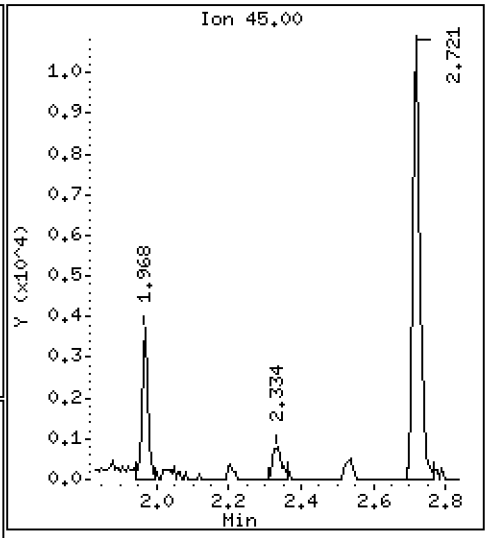
Sample Info: VSTD00.5;;1;1;8;;;

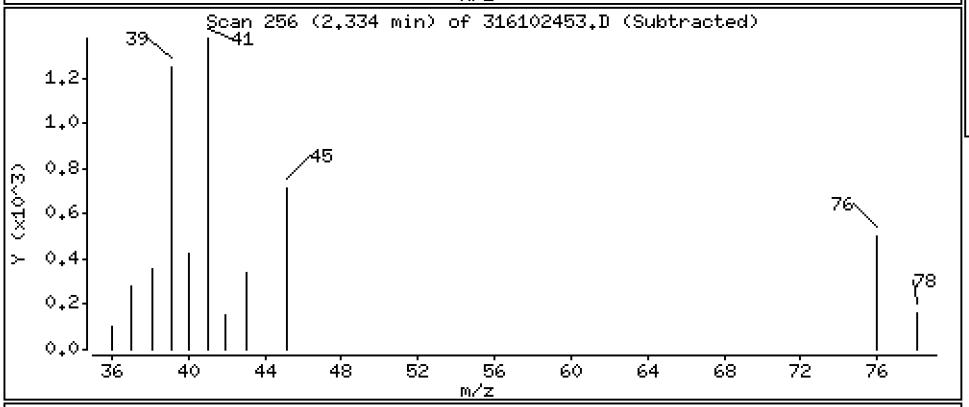
Purge Volume: 5.0 Operator: CJG

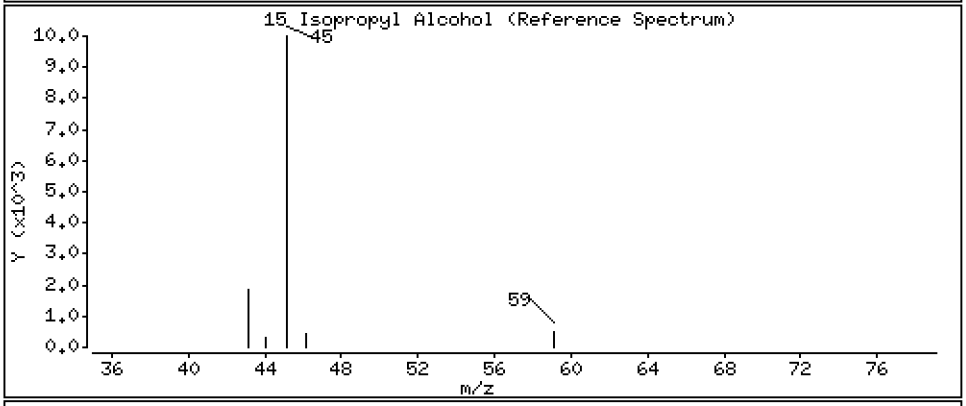
Column phase: DB-VRX Column diameter: 0.25

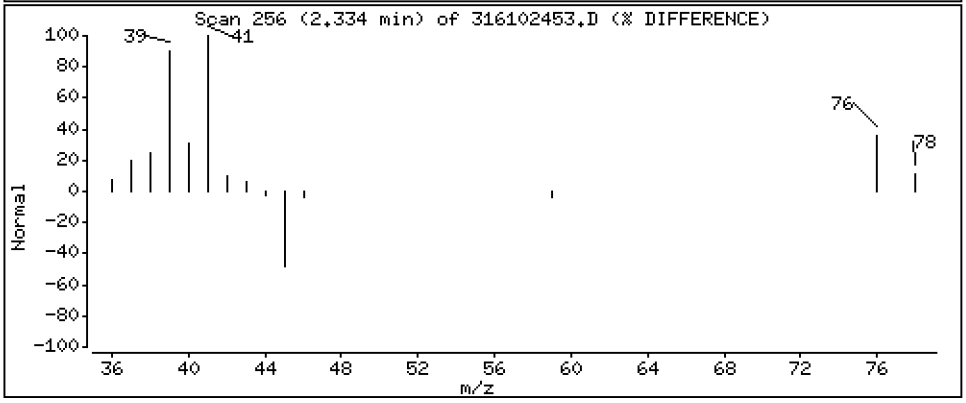
15 Isopropyl Alcohol Concentration: 4.62437 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 24

Date : 24-OCT-2016 23:25

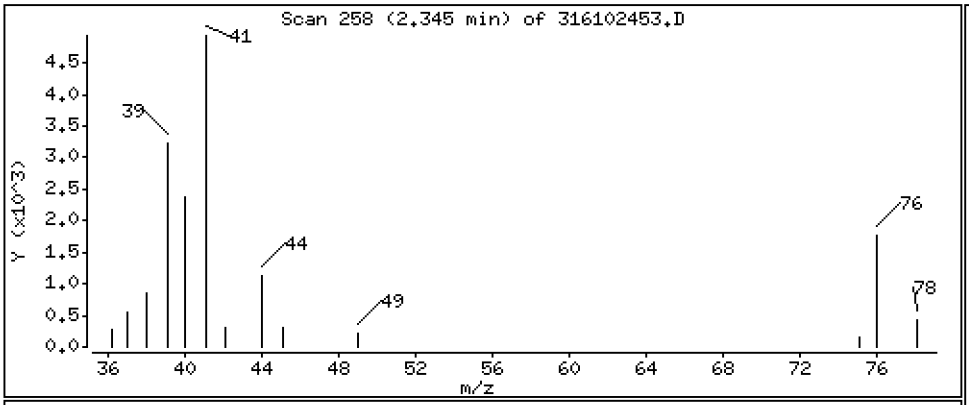
Client ID: Instrument: ms03.i

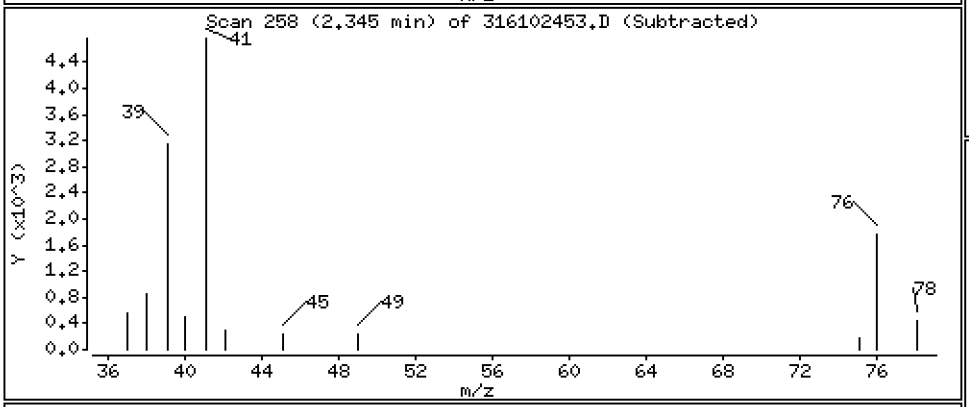
Sample Info: VSTD00.5;;1;1;8;;;

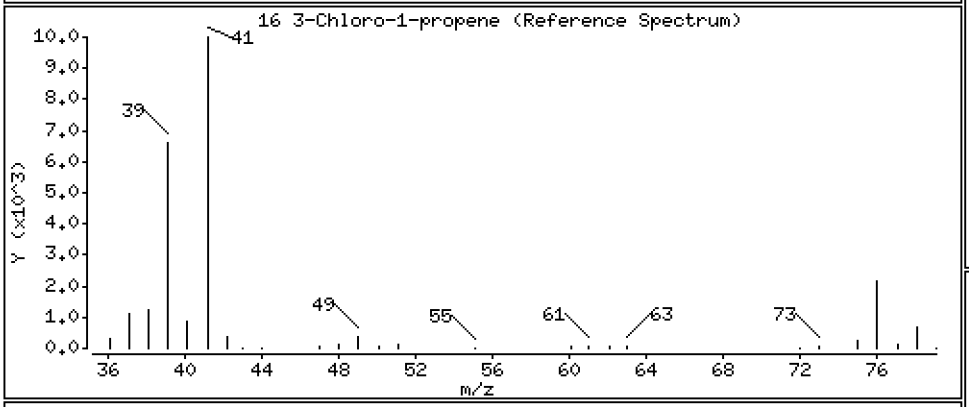
Purge Volume: 5.0 Operator: CJG

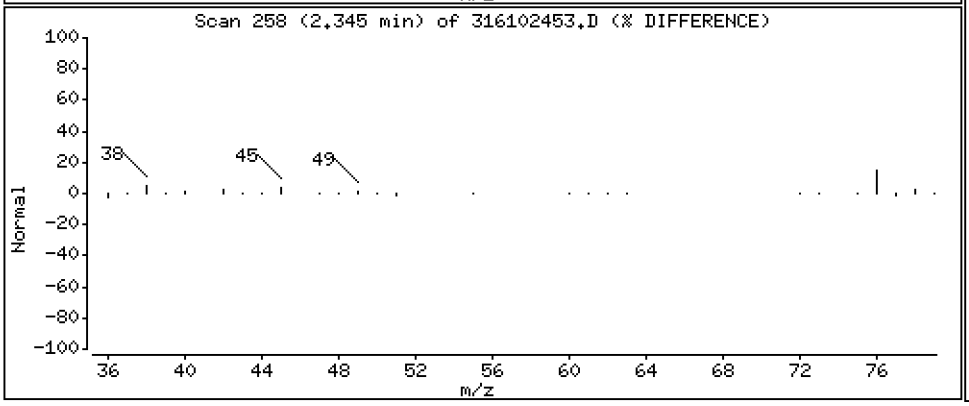
Column phase: DB-VRX Column diameter: 0.25

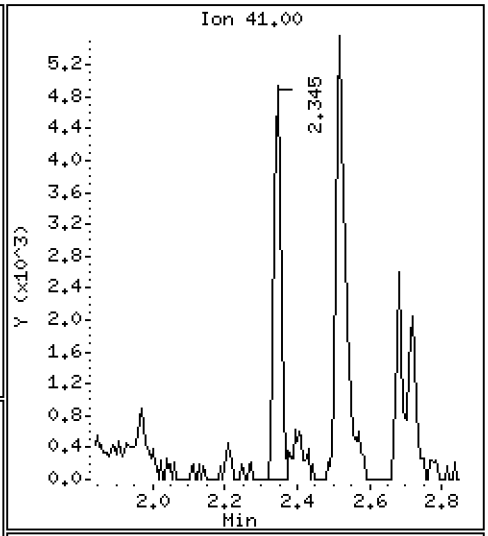
16 3-Chloro-1-propene Concentration: 0.504444 ug/L

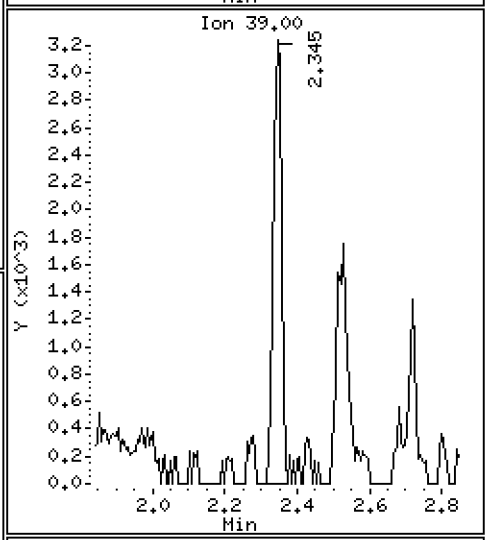


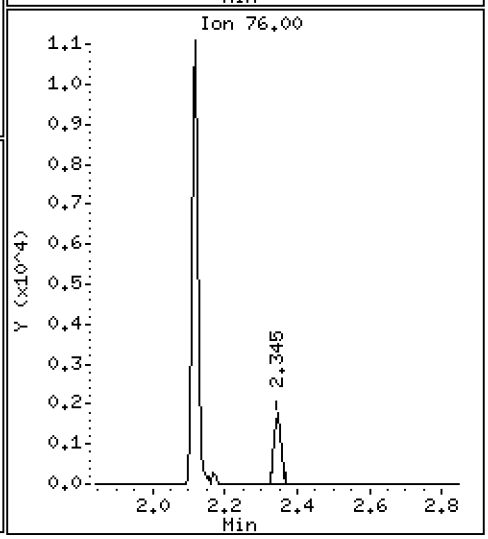












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 25

Date : 24-OCT-2016 23:25

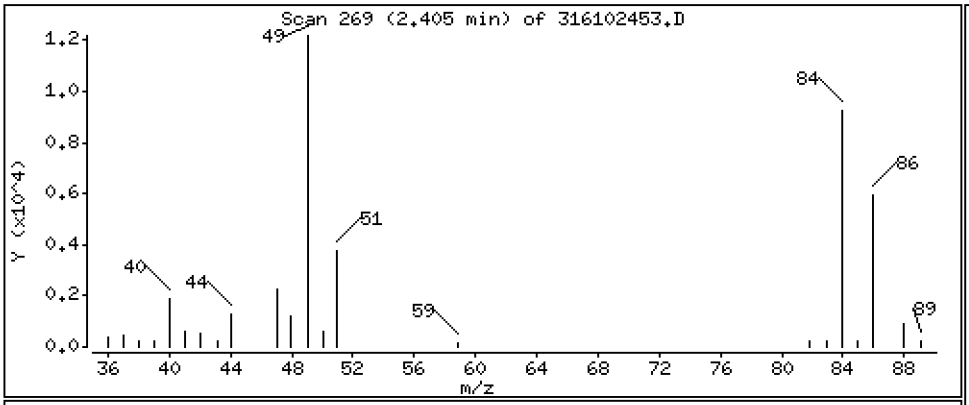
Client ID: Instrument: ms03.i

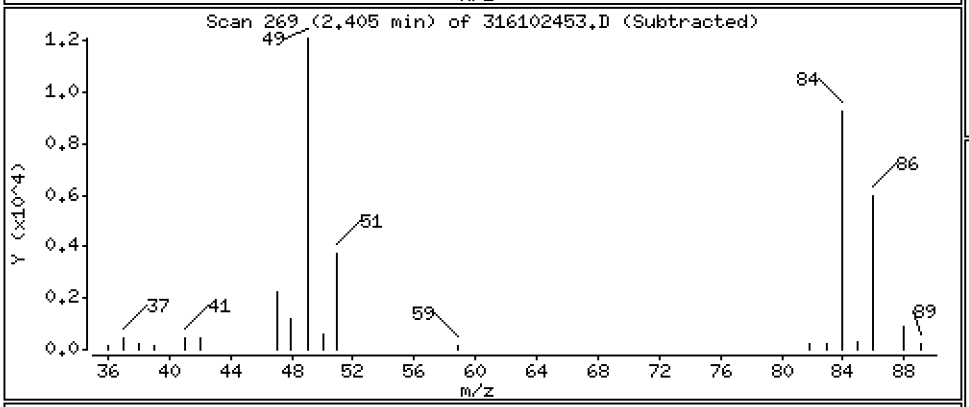
Sample Info: VSTD00.5;;1;1;8;;;

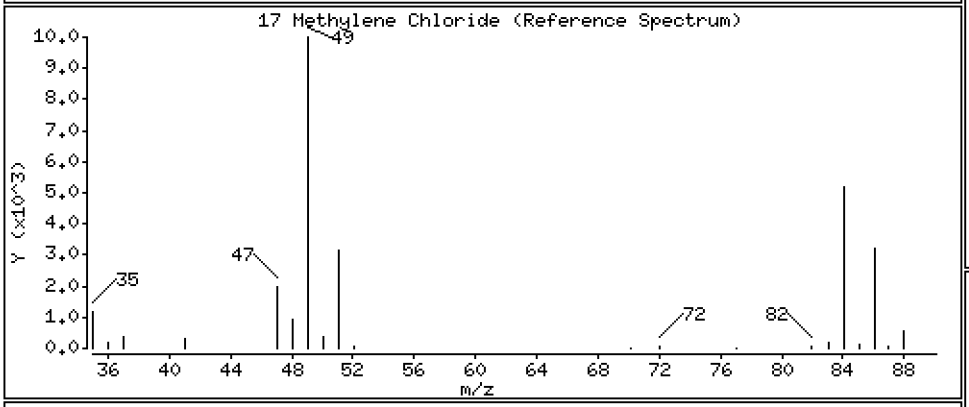
Purge Volume: 5.0 Operator: CJG

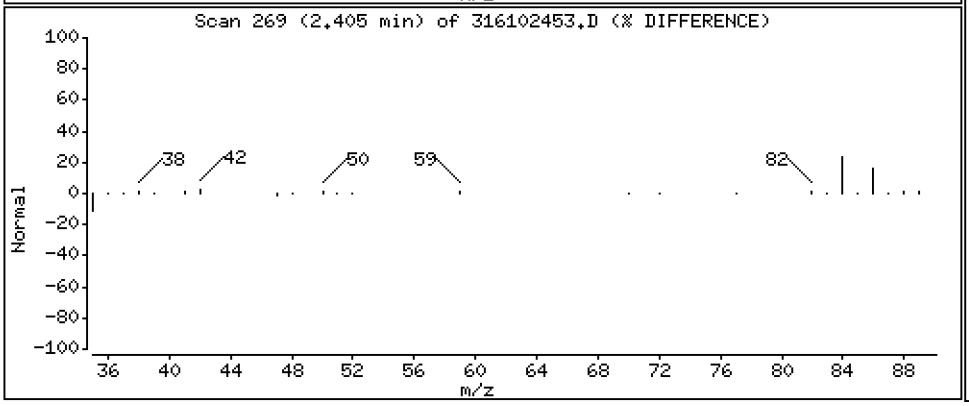
Column phase: DB-VRX Column diameter: 0.25

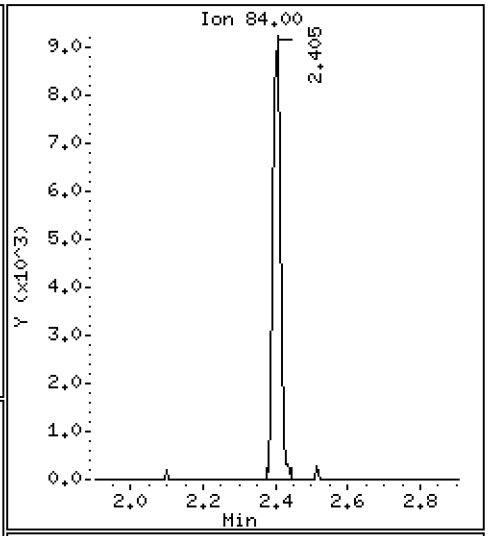
17 Methylene Chloride Concentration: 0.309773 ug/L

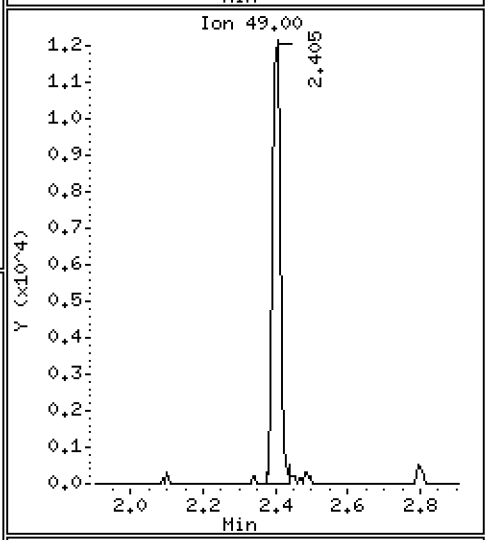


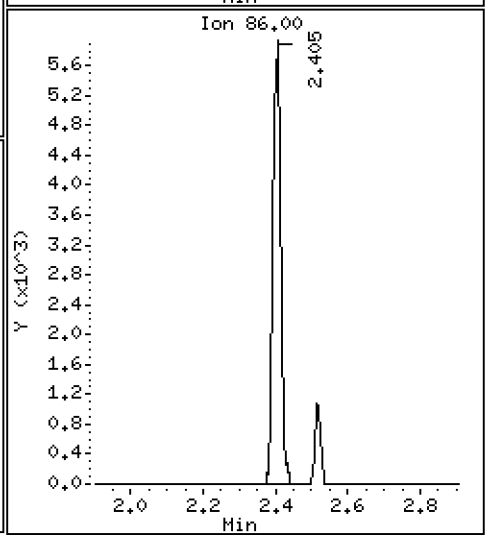












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 26

Date : 24-OCT-2016 23:25

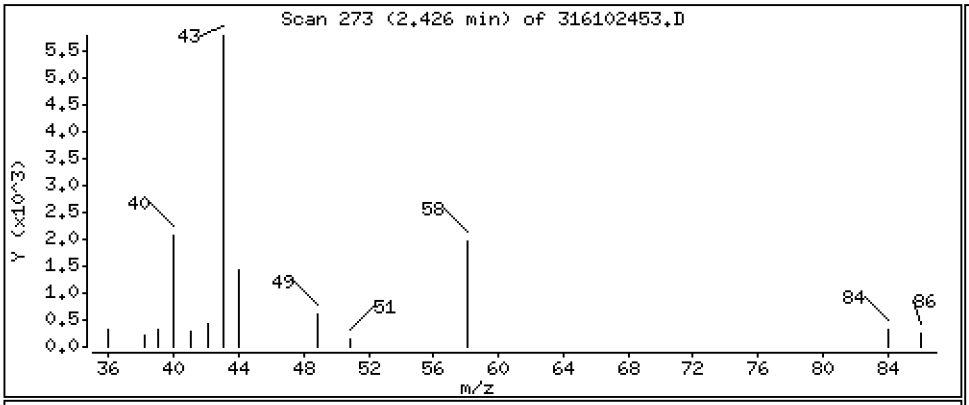
Client ID: Instrument: ms03.i

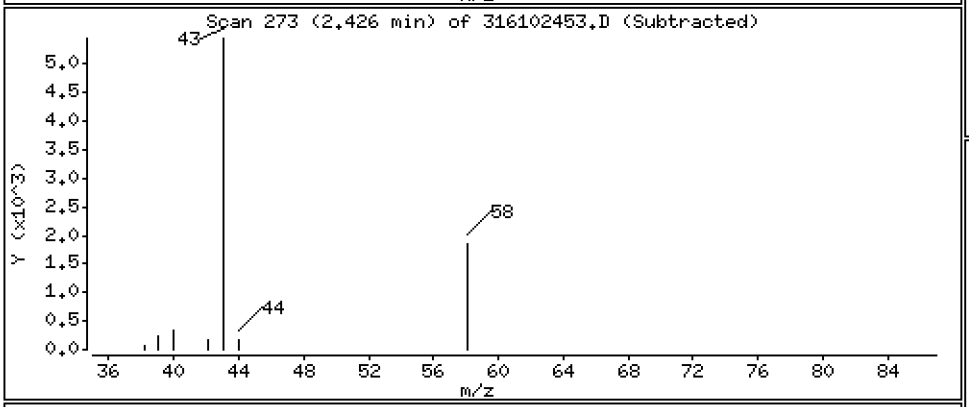
Sample Info: VSTD00.5;;1;1;8;;;

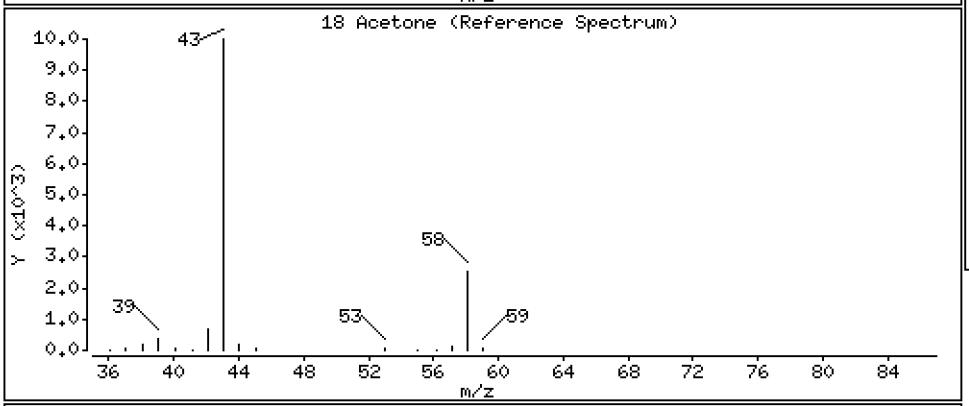
Purge Volume: 5.0 Operator: CJG

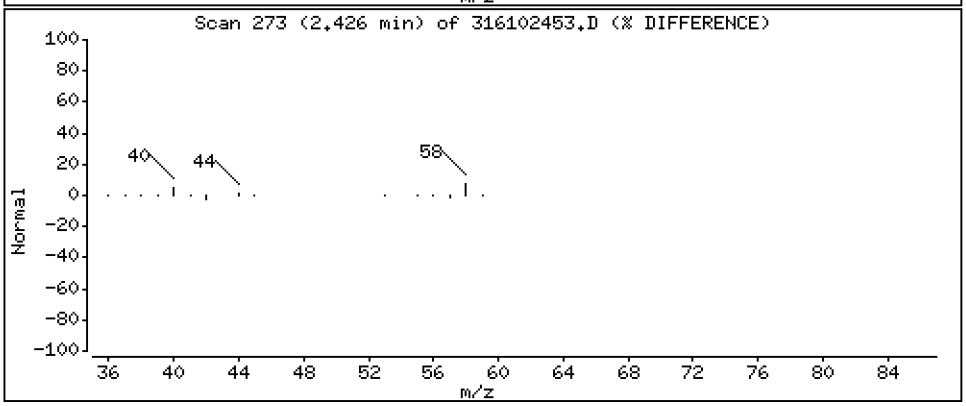
Column phase: DB-VRX Column diameter: 0.25

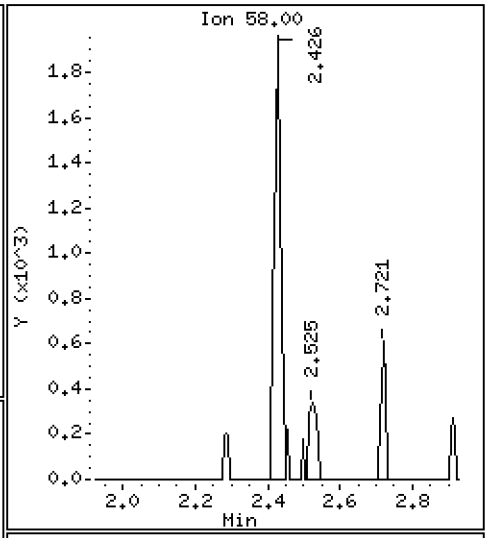
18 Acetone Concentration: 3.41282 ug/L

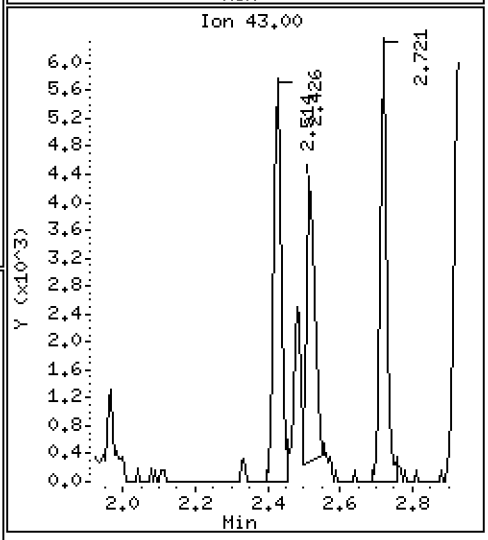












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 27

Date : 24-OCT-2016 23:25

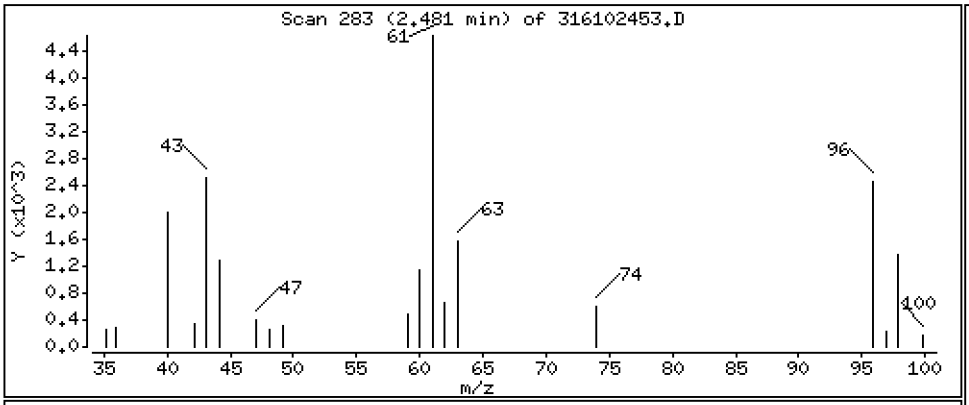
Client ID: Instrument: ms03.i

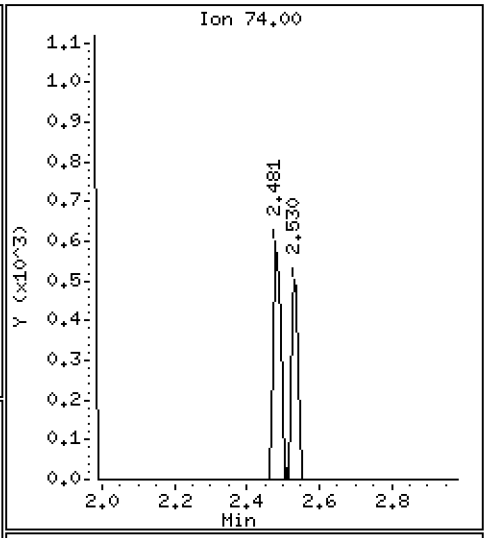
Sample Info: VSTD00.5;;1;1;8;;;

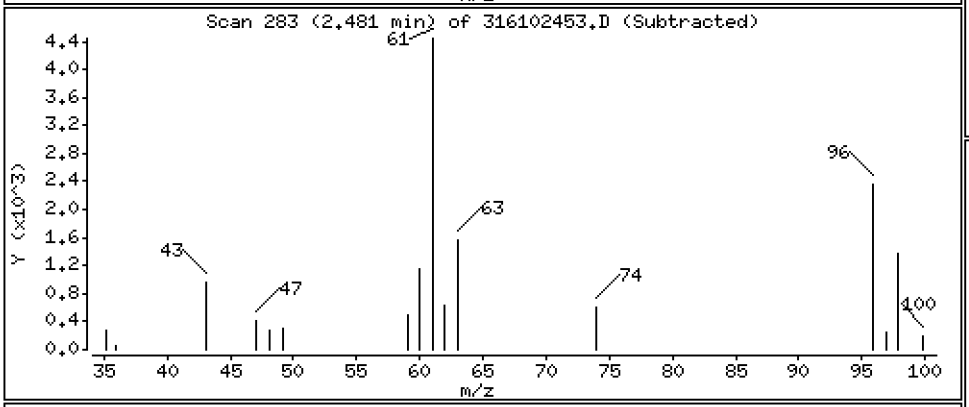
Purge Volume: 5.0 Operator: CJG

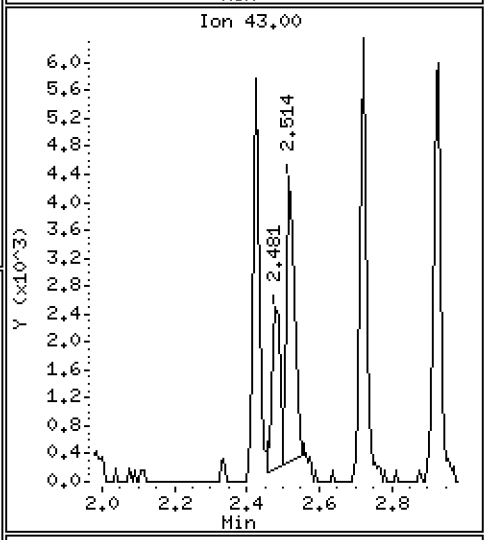
Column phase: DB-VRX Column diameter: 0.25

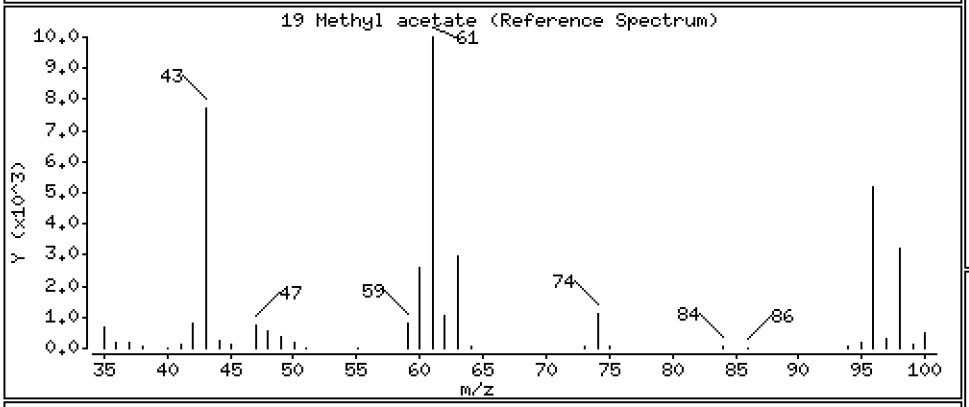
19 Methyl acetate Concentration: 0.562208 ug/L

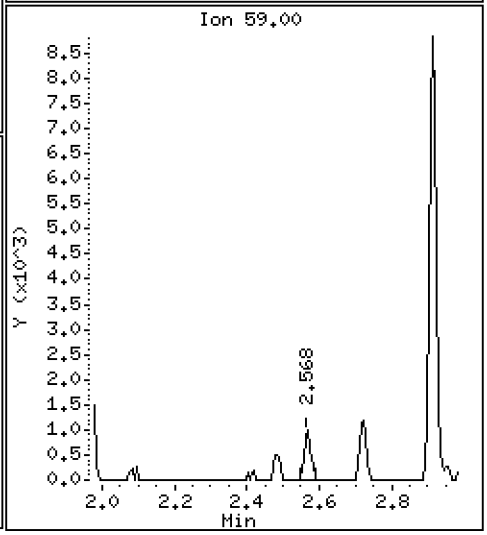


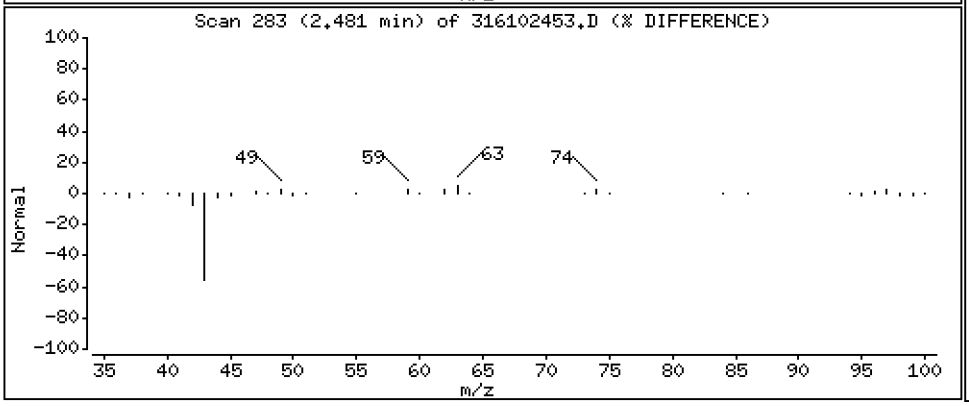












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 28

Date : 24-OCT-2016 23:25

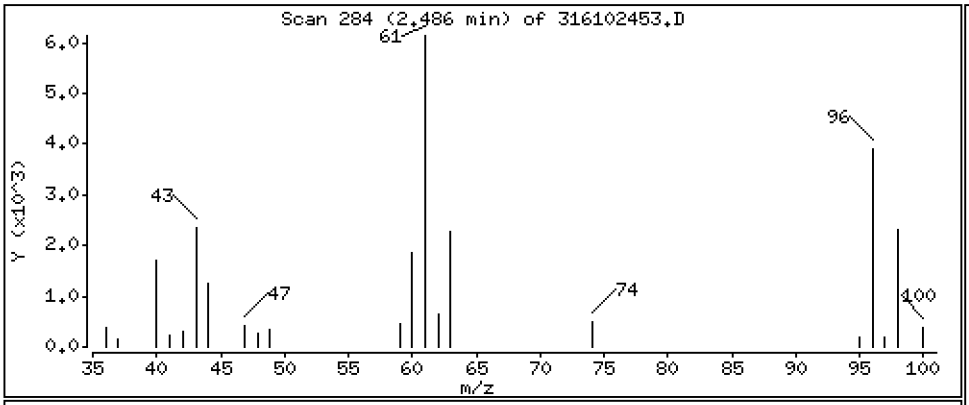
Client ID: Instrument: ms03.i

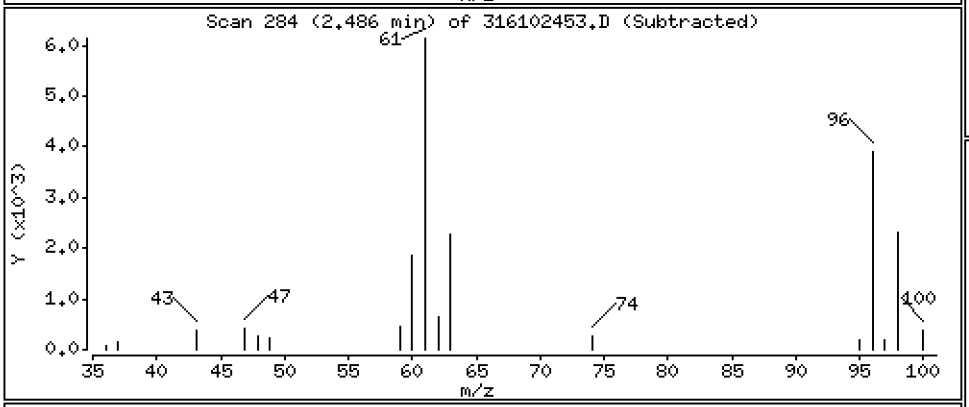
Sample Info: VSTD00.5;;1;1;8;;;

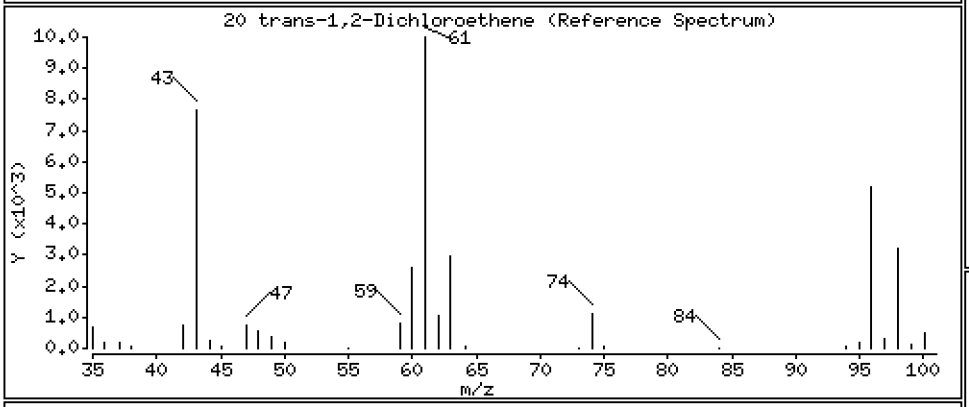
Purge Volume: 5.0 Operator: CJG

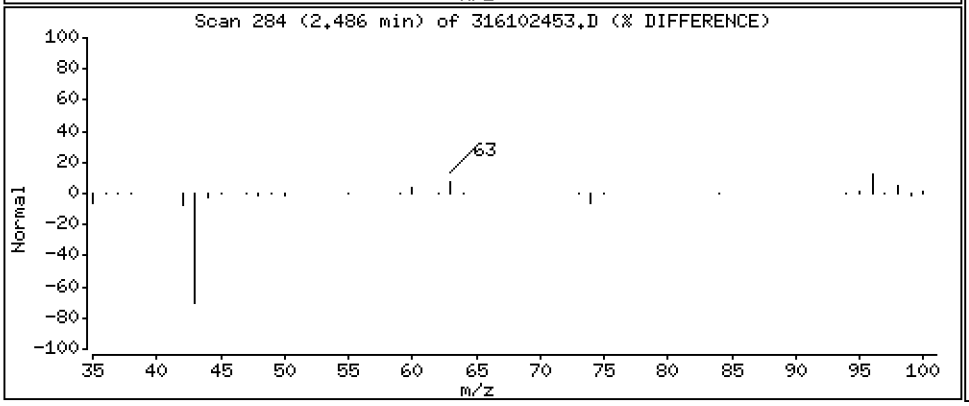
Column phase: DB-VRX Column diameter: 0.25

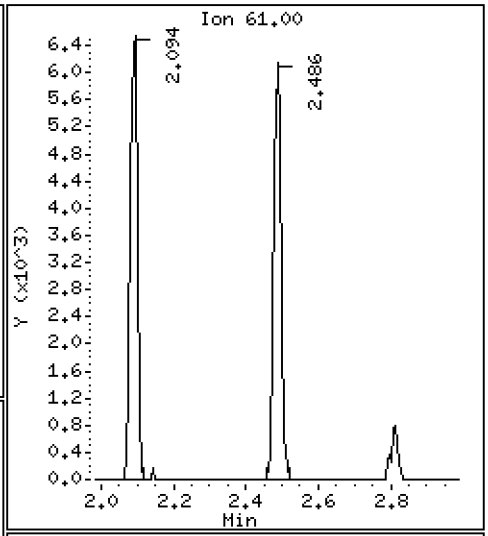
20 trans-1,2-Dichloroethene Concentration: 0.635506 ug/L

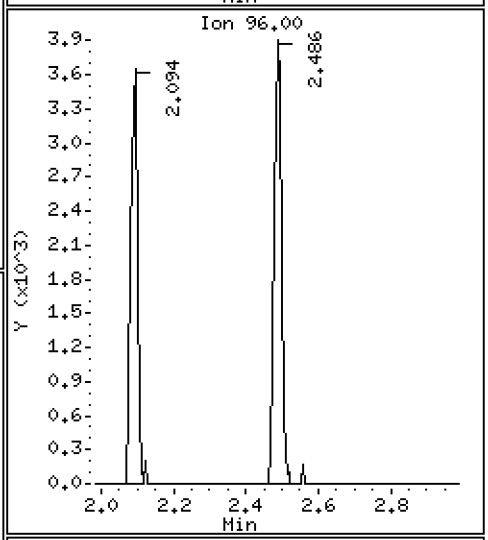


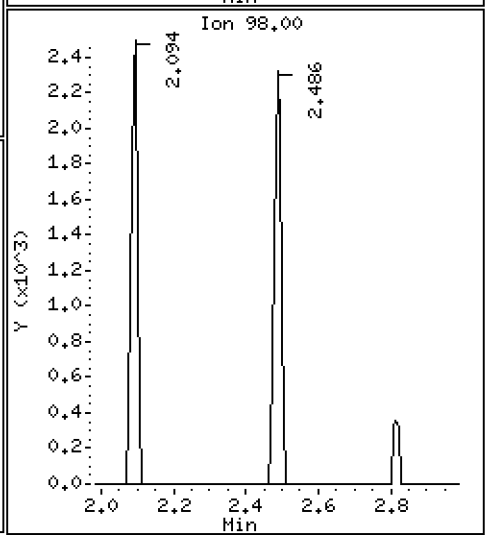












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 29

Date : 24-OCT-2016 23:25

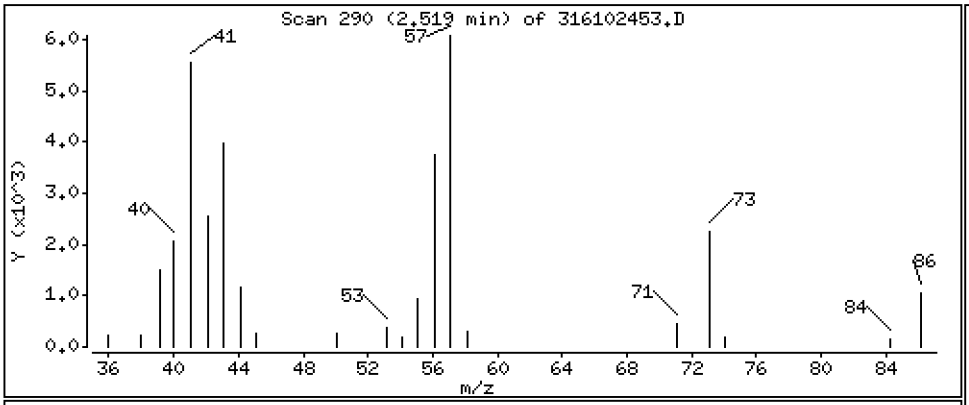
Client ID: Instrument: ms03.i

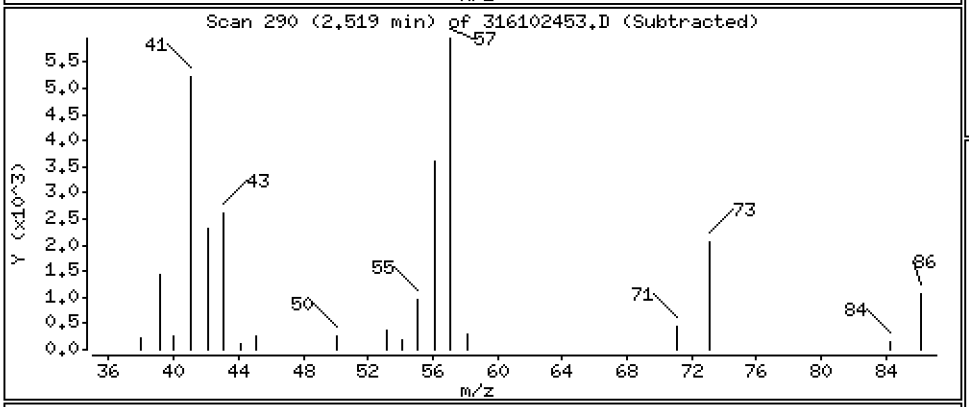
Sample Info: VSTD00.5;;1;1;8;;;

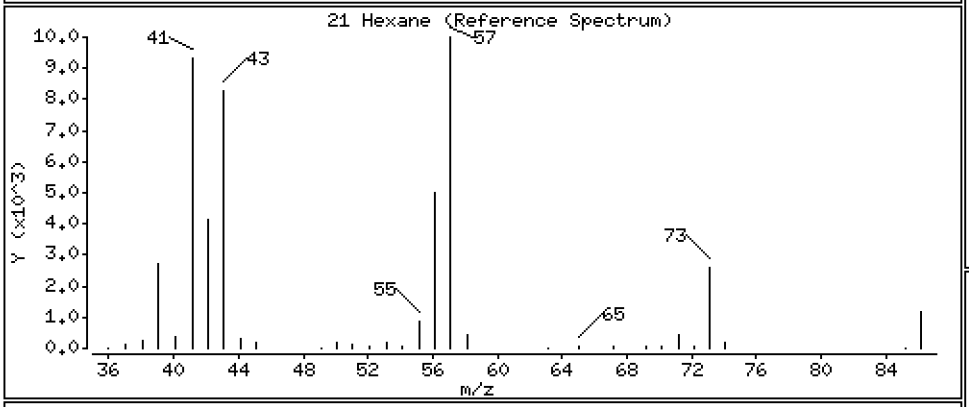
Purge Volume: 5.0 Operator: CJG

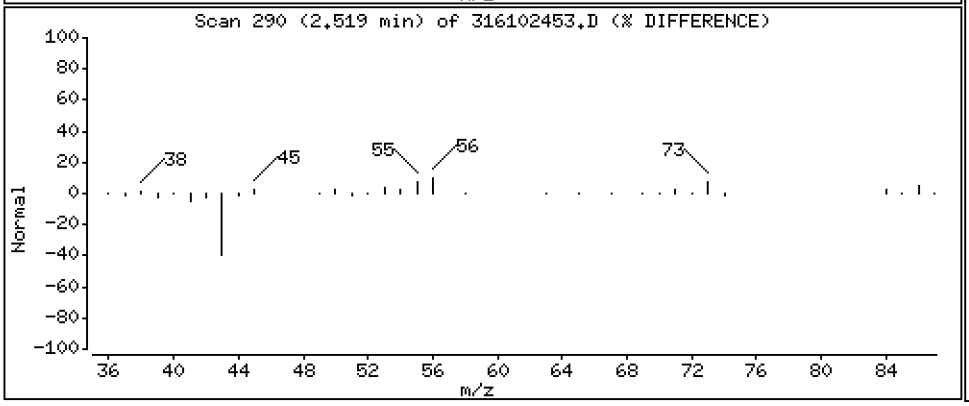
Column phase: DB-VRX Column diameter: 0.25

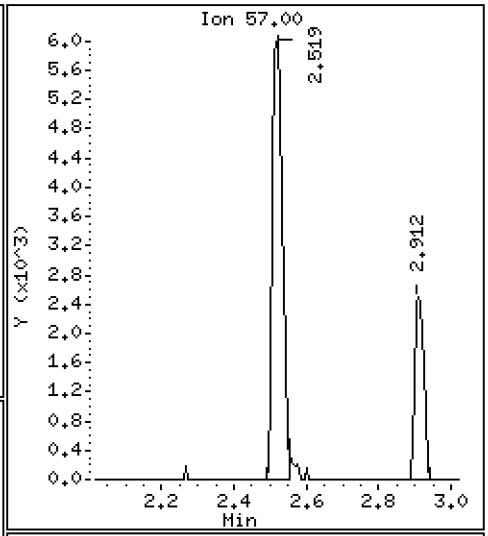
21 Hexane Concentration: 0.631555 ug/L

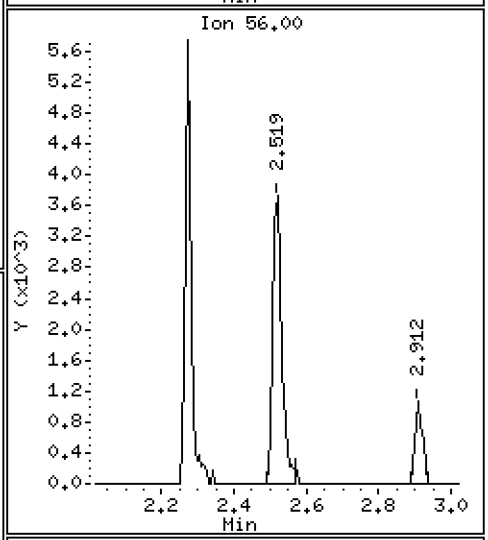


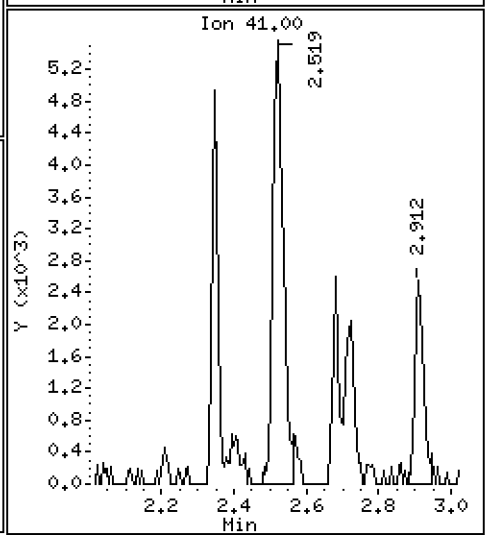












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 30

Date : 24-OCT-2016 23:25

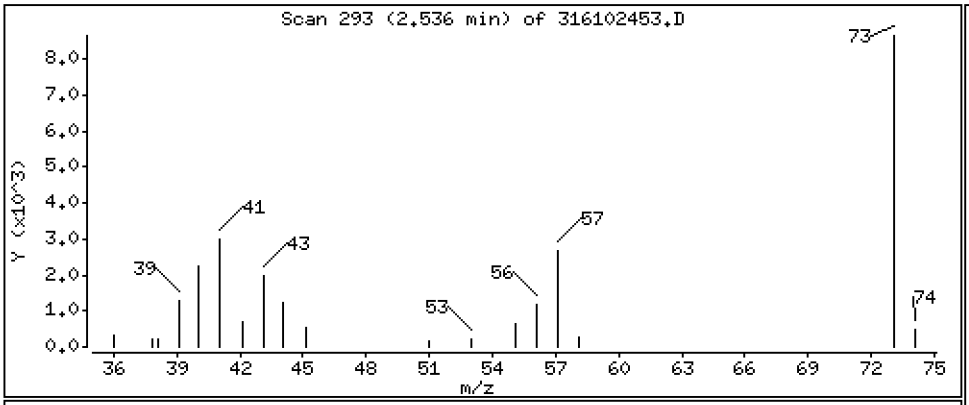
Client ID: Instrument: ms03.i

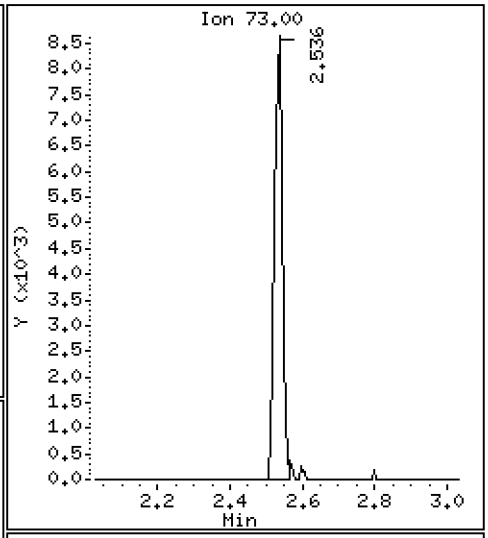
Sample Info: VSTD00.5;;1;1;8;;;

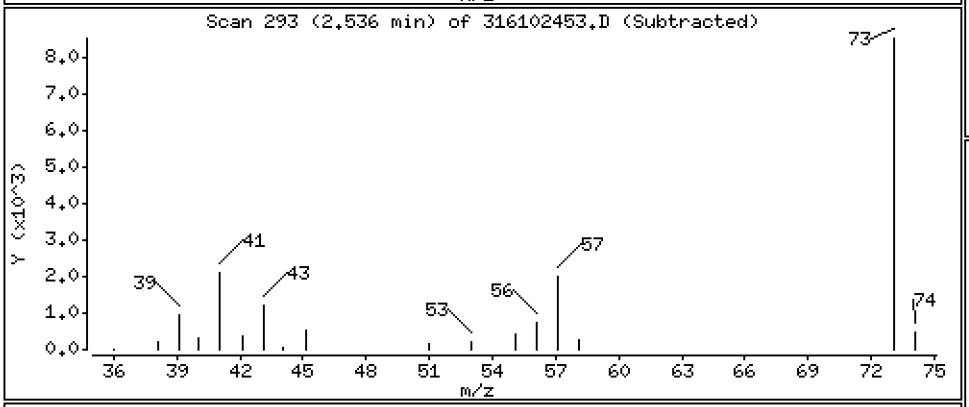
Purge Volume: 5.0 Operator: CJG

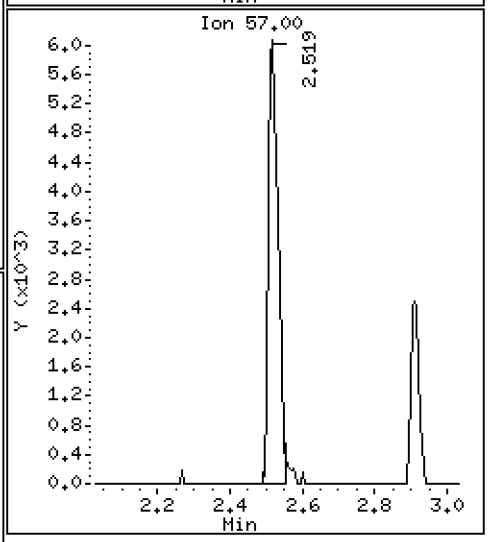
Column phase: DB-VRX Column diameter: 0.25

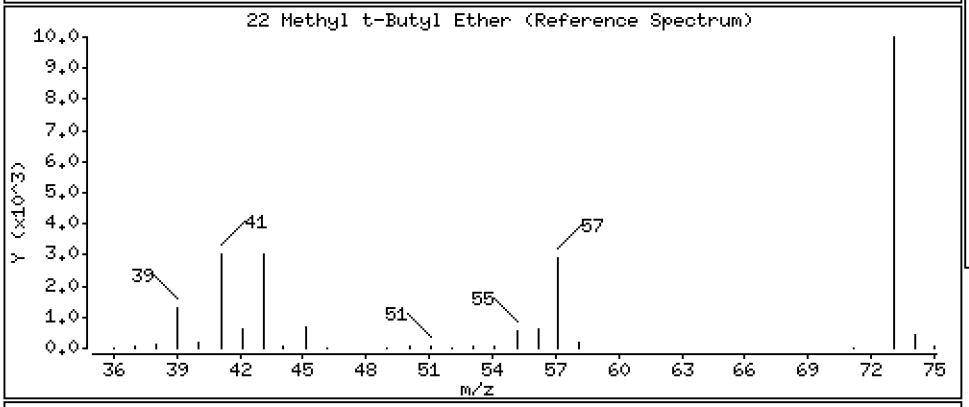
22 Methyl t-Butyl Ether Concentration: 0.554495 ug/L

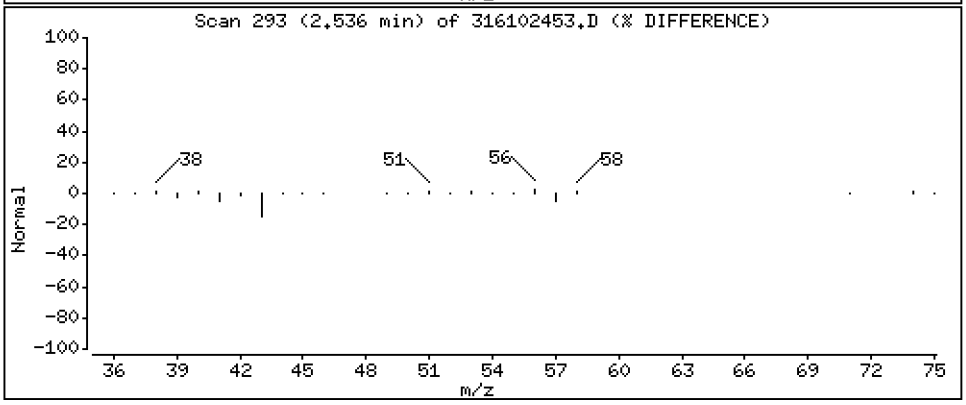












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 31

Date : 24-OCT-2016 23:25

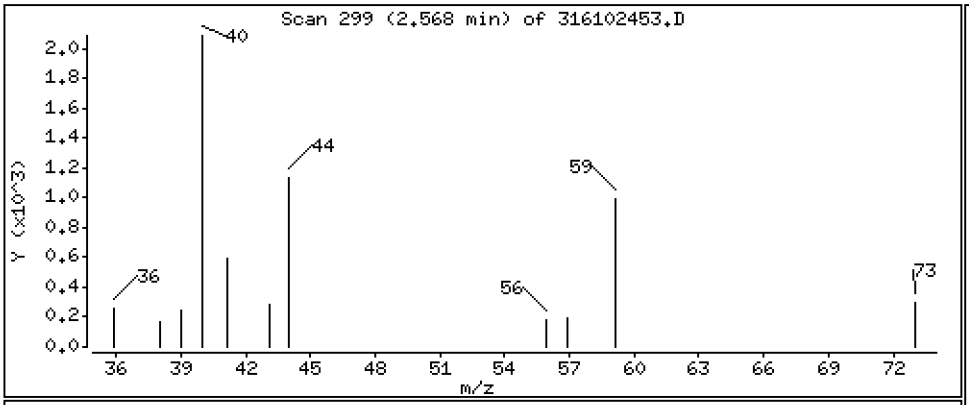
Client ID: Instrument: ms03.i

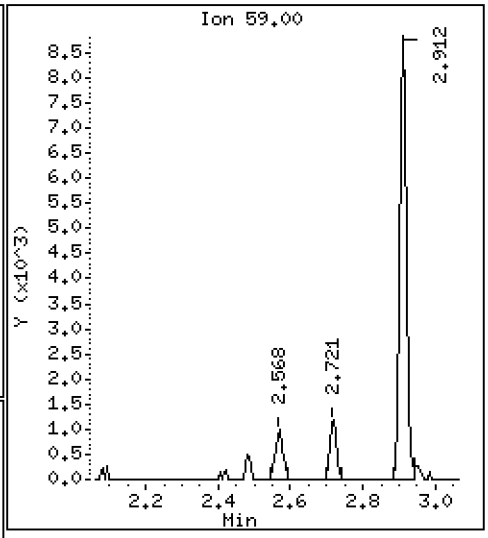
Sample Info: VSTD00.5;;1;1;8;;;

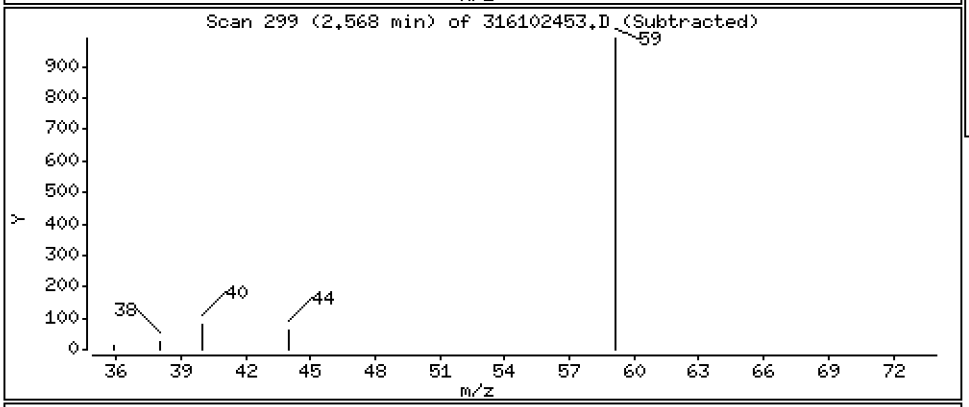
Purge Volume: 5.0 Operator: CJG

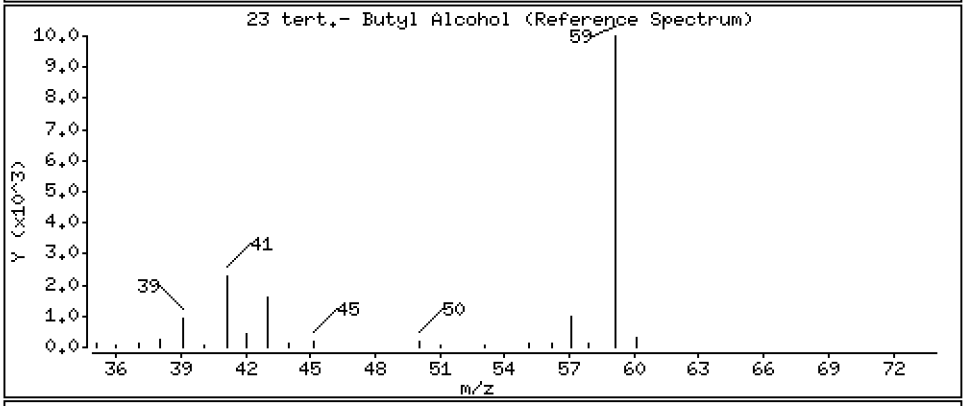
Column phase: DB-VRX Column diameter: 0.25

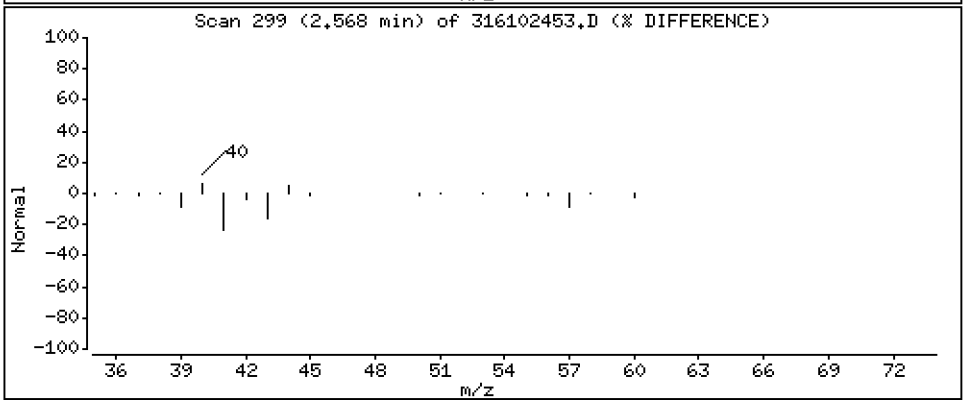
23 tert.- Butyl Alcohol Concentration: 2.85415 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 32

Date : 24-OCT-2016 23:25

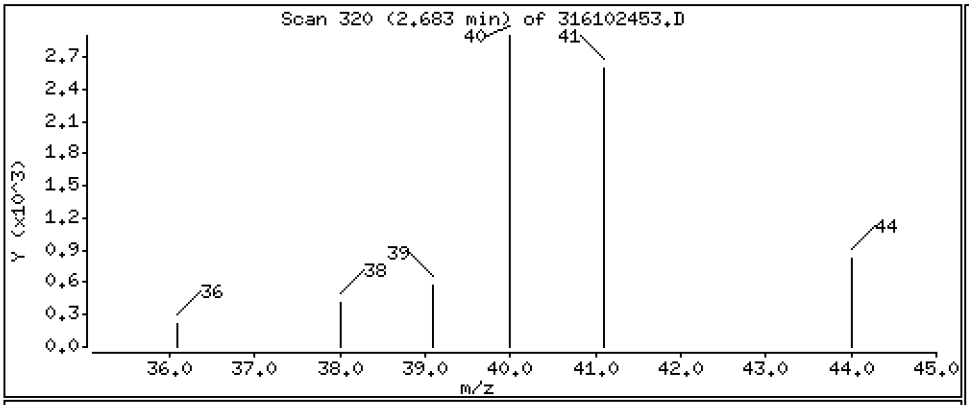
Client ID: Instrument: ms03.i

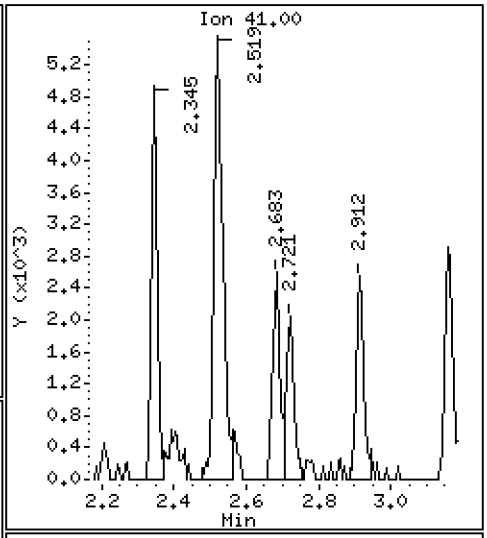
Sample Info: VSTD00.5;;1;1;8;;;

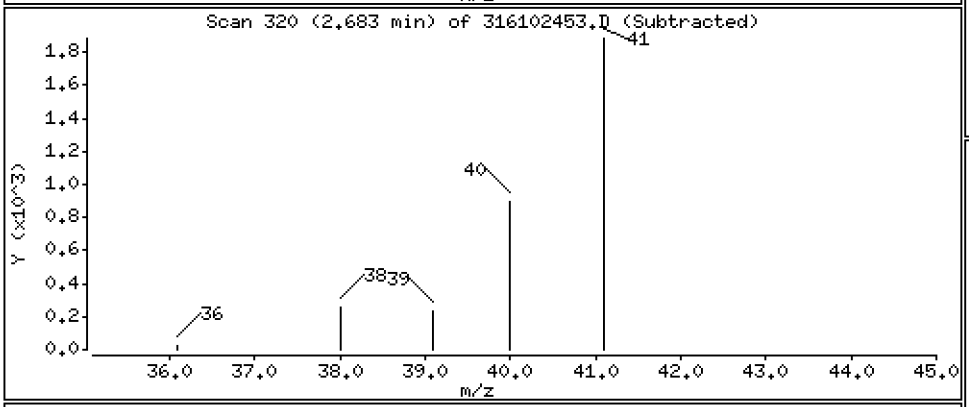
Purge Volume: 5.0 Operator: CJG

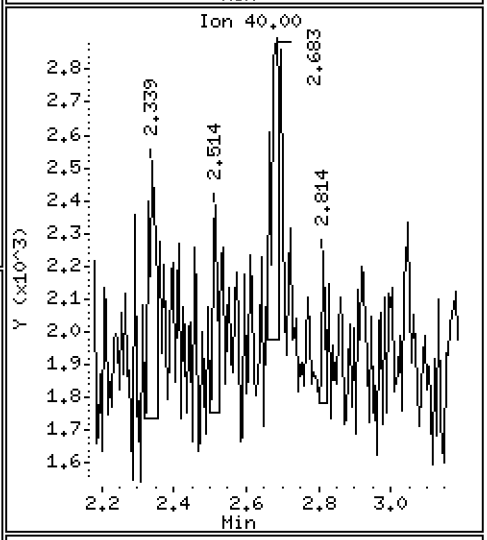
Column phase: DB-VRX Column diameter: 0.25

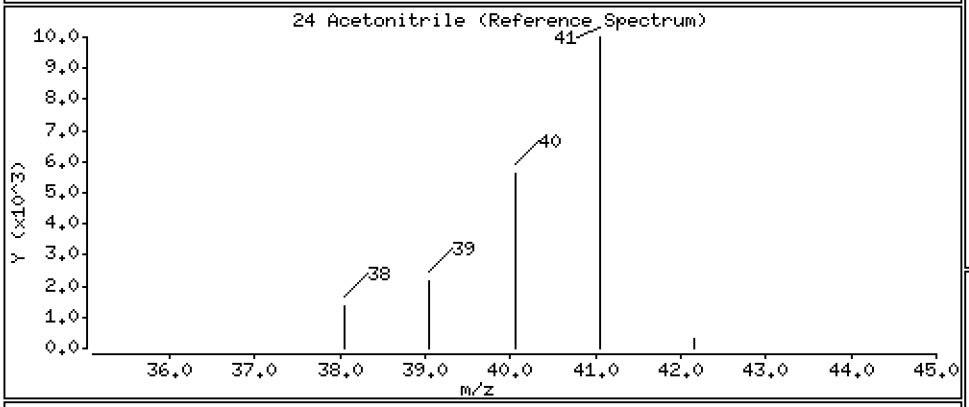
24 Acetonitrile Concentration: 4.26442 ug/L

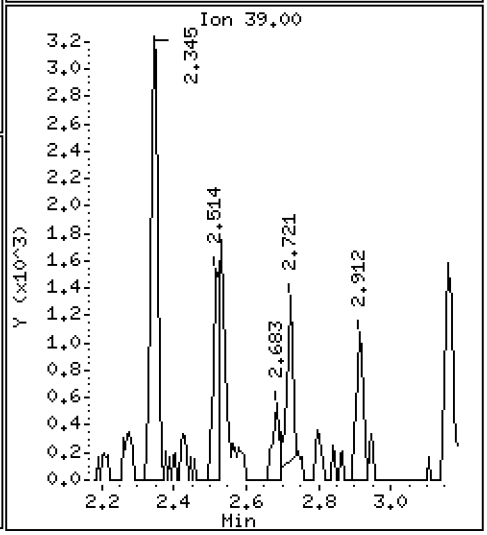


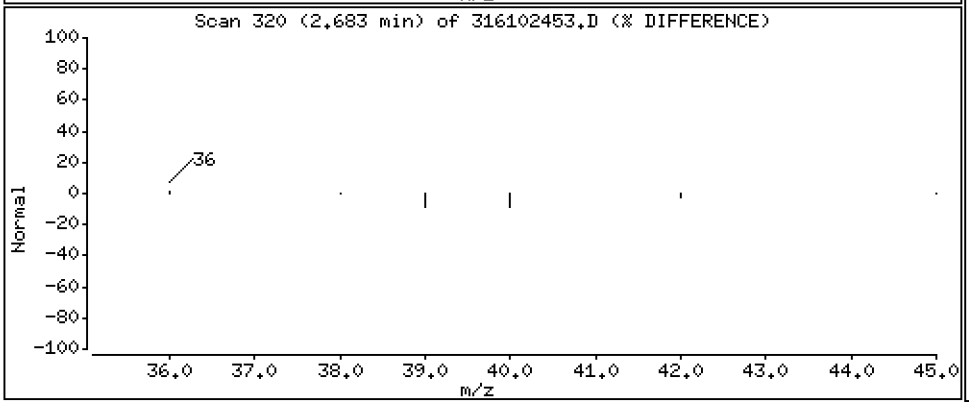












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 33

Date : 24-OCT-2016 23:25

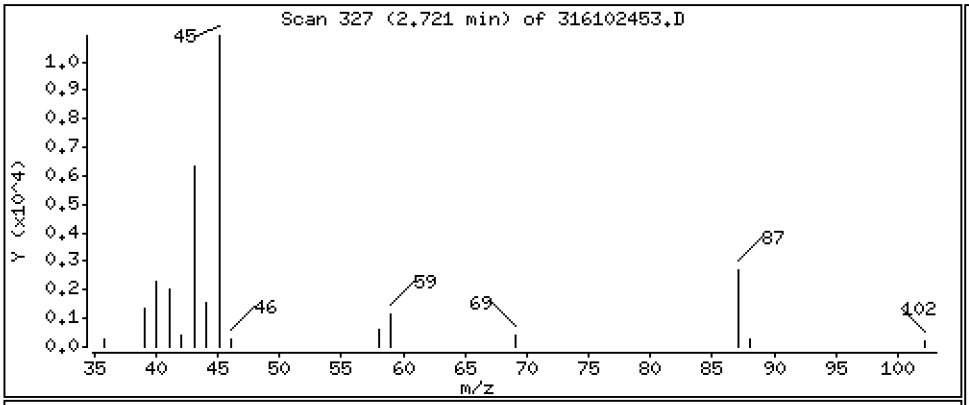
Client ID: Instrument: ms03.i

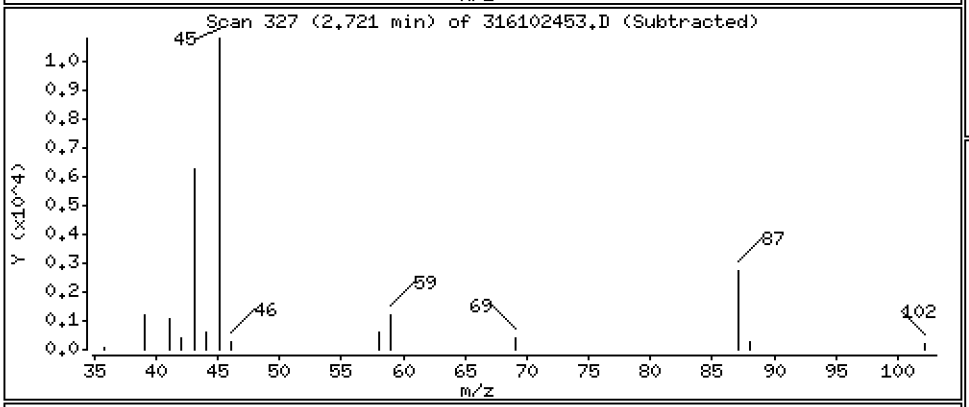
Sample Info: VSTD00.5;;1;1;8;;;

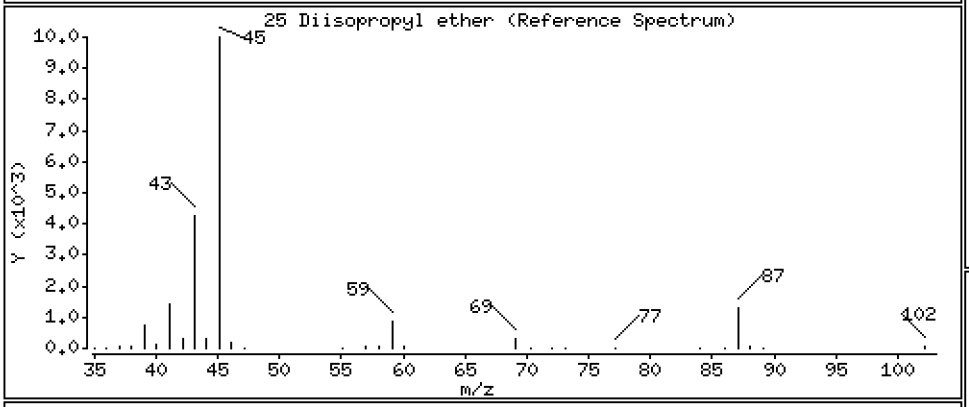
Purge Volume: 5.0 Operator: CJG

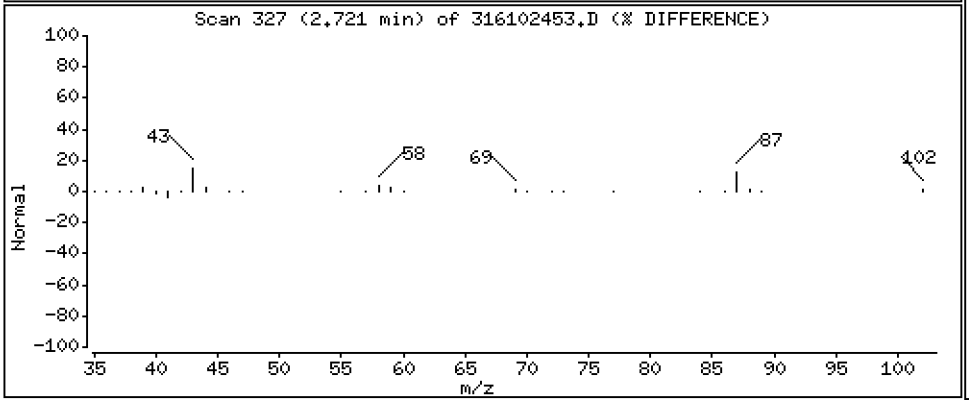
Column phase: DB-VRX Column diameter: 0.25

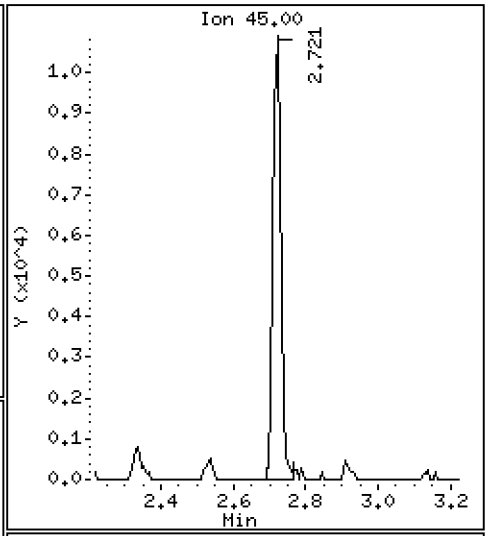
25 Diisopropyl ether Concentration: 0.498743 ug/L

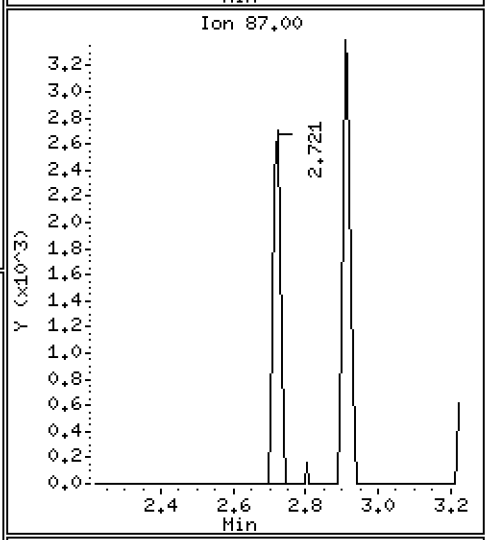


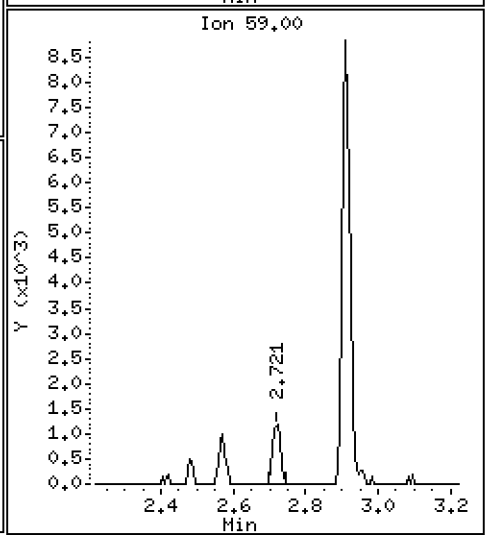












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 34

Date : 24-OCT-2016 23:25

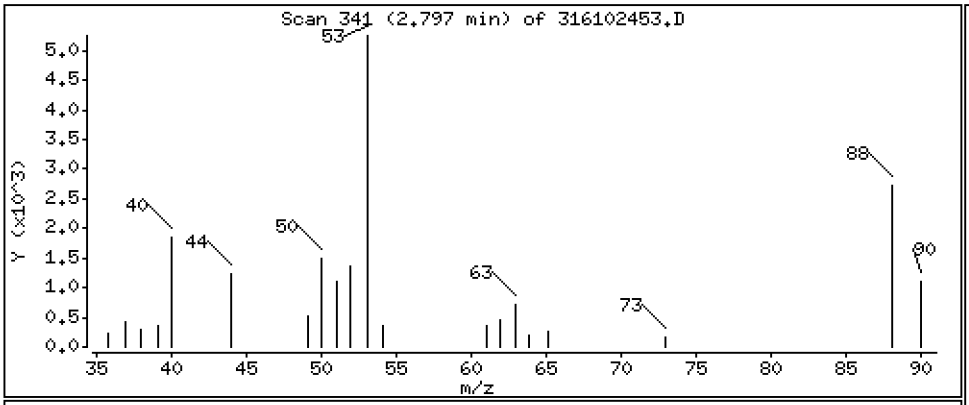
Client ID: Instrument: ms03.i

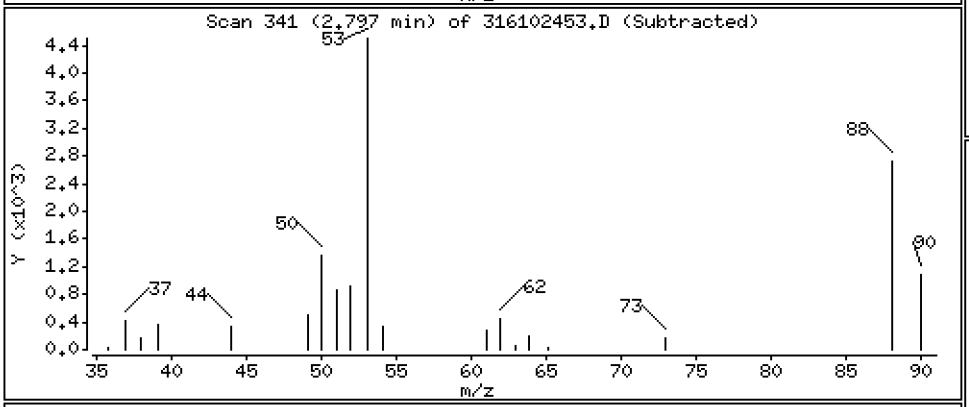
Sample Info: VSTD00.5;;1;1;8;;;

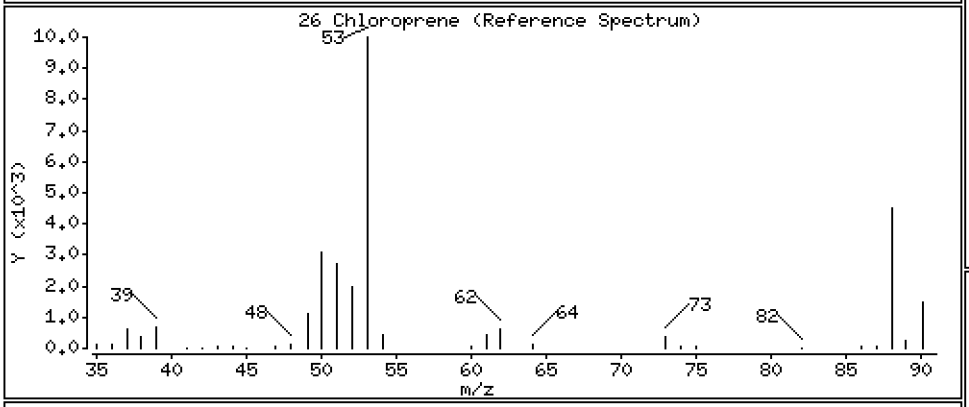
Purge Volume: 5.0 Operator: CJG

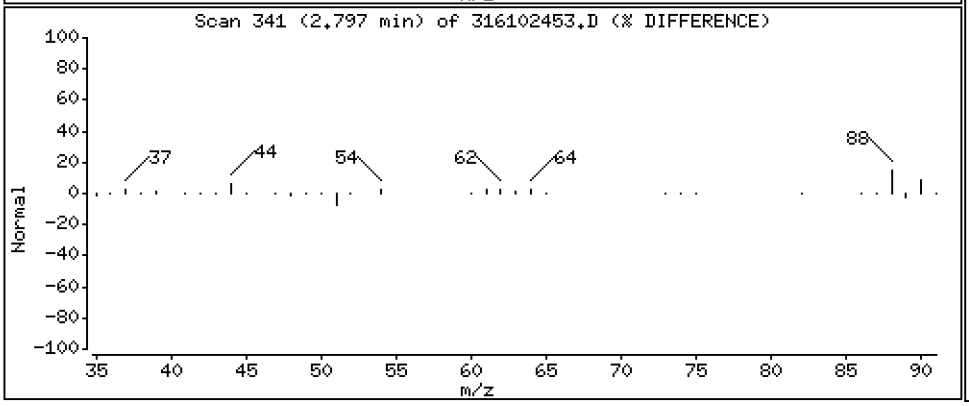
Column phase: DB-VRX Column diameter: 0.25

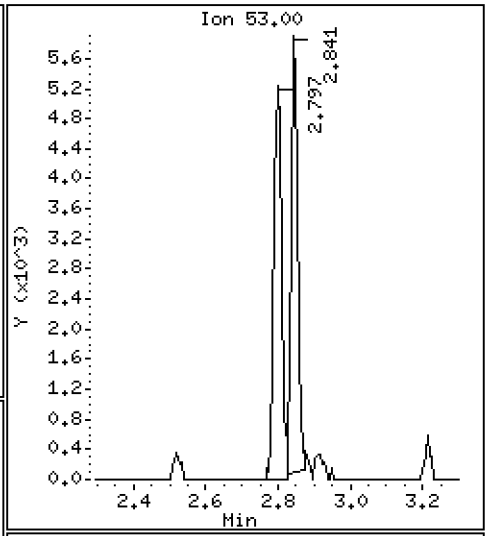
26 Chloroprene Concentration: 0.591489 ug/L

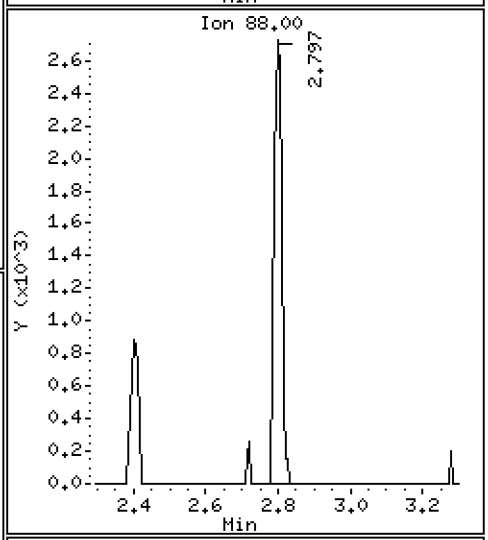


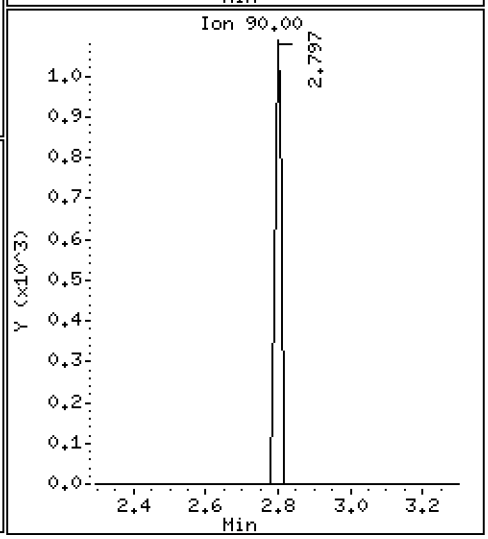












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 35

Date : 24-OCT-2016 23:25

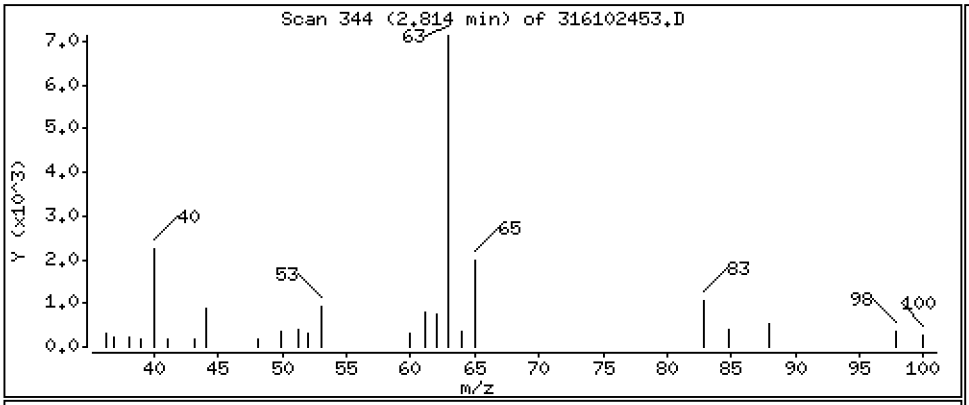
Client ID: Instrument: ms03.i

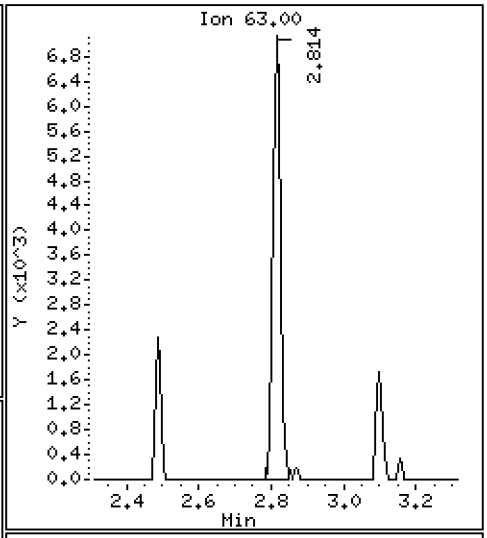
Sample Info: VSTD00.5;;1;1;8;;;

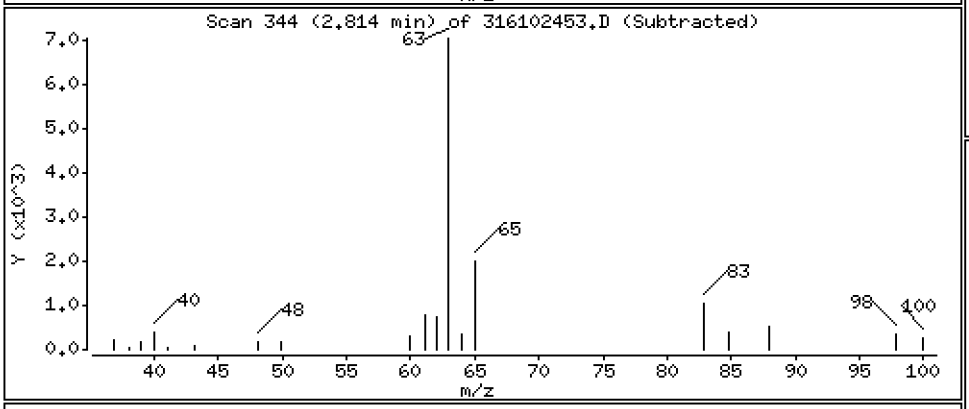
Purge Volume: 5.0 Operator: CJG

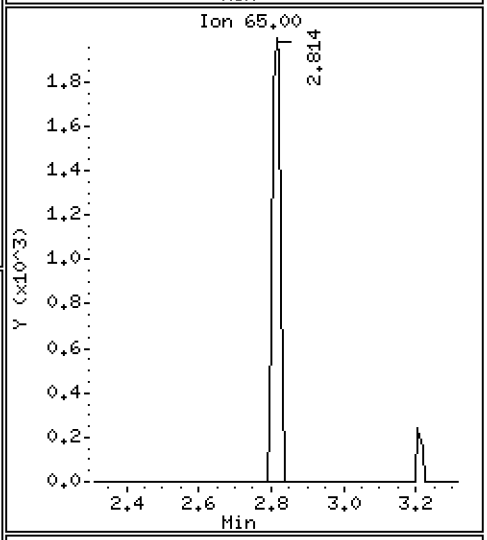
Column phase: DB-VRX Column diameter: 0.25

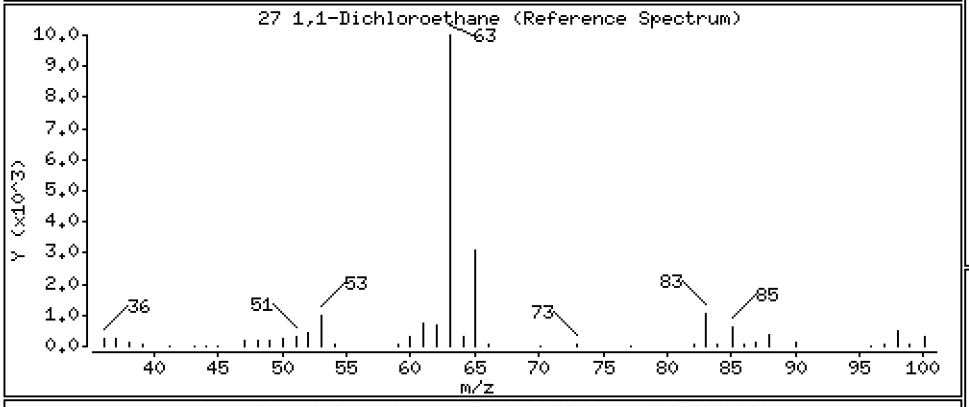
27 1,1-Dichloroethane Concentration: 0.588192 ug/L

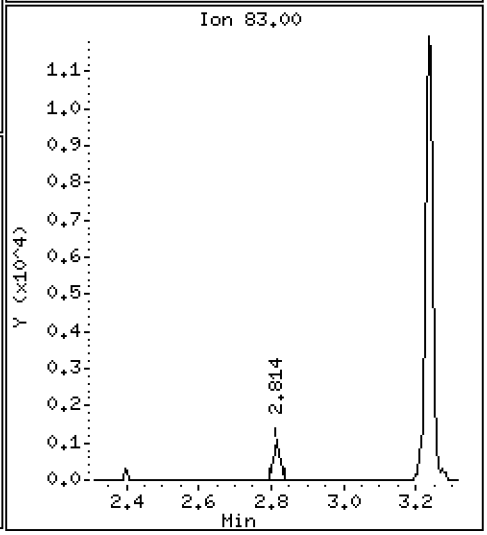


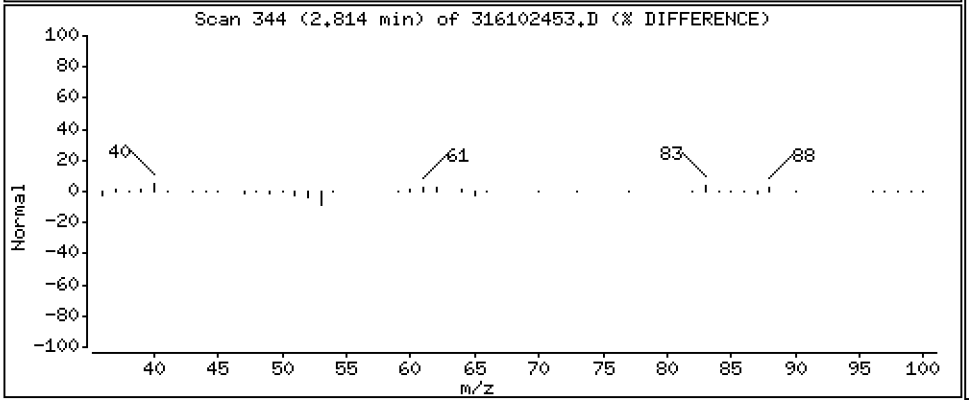












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 36

Date : 24-OCT-2016 23:25

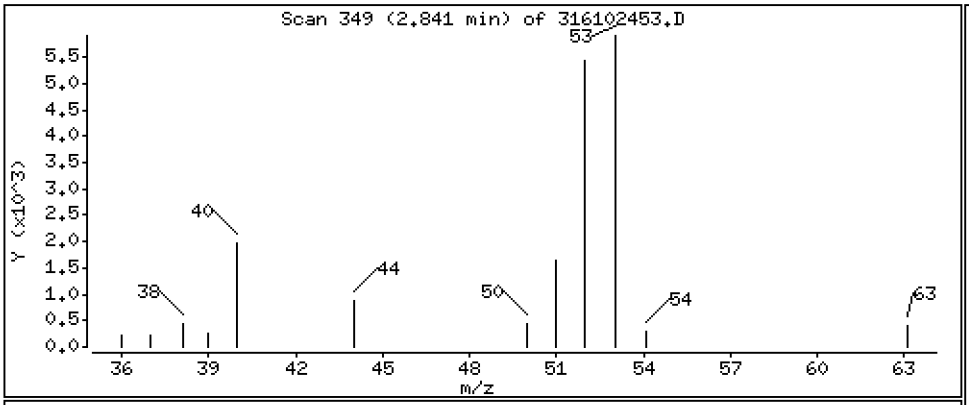
Client ID: Instrument: ms03.i

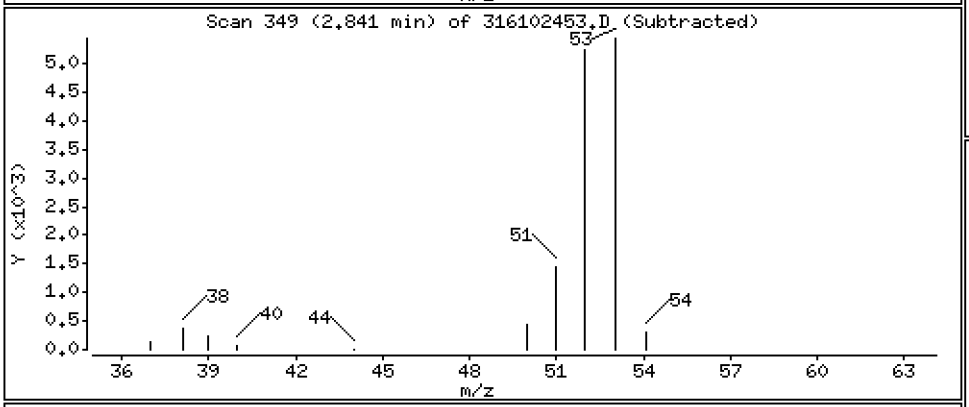
Sample Info: VSTD00.5;;1;1;8;;;

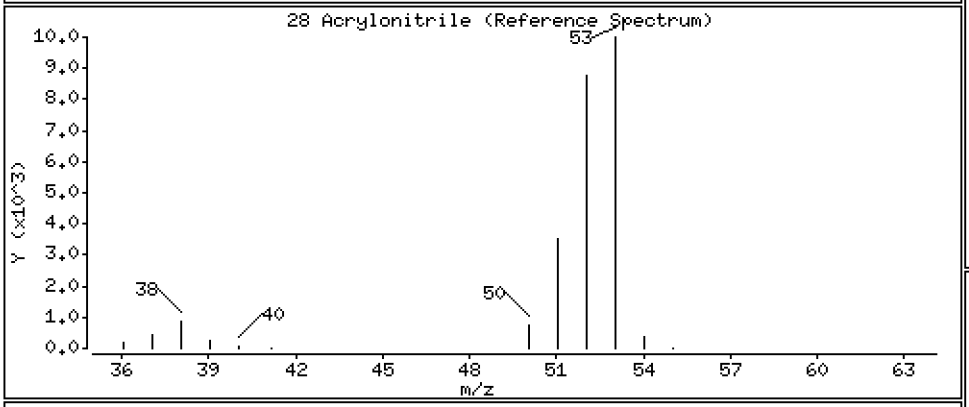
Purge Volume: 5.0 Operator: CJG

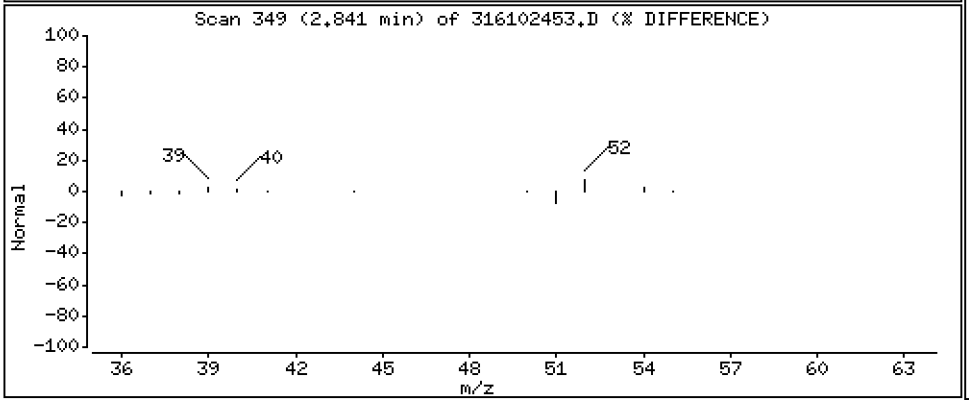
Column phase: DB-VRX Column diameter: 0.25

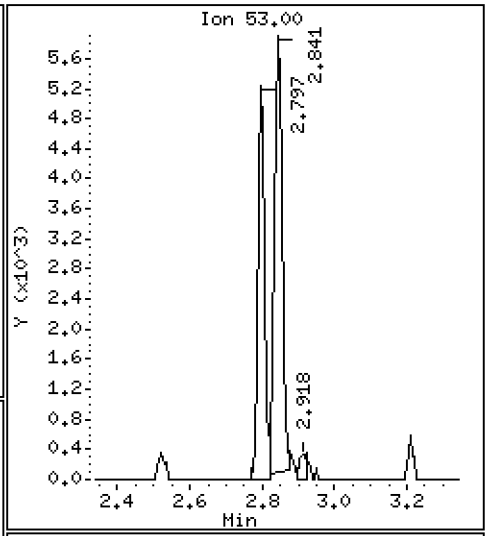
28 Acrylonitrile Concentration: 2.65567 ug/L

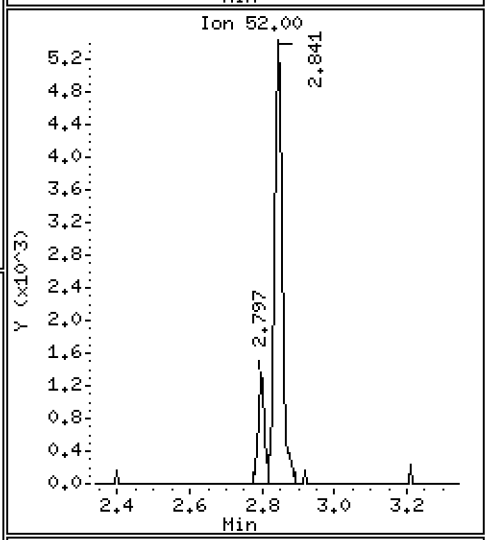


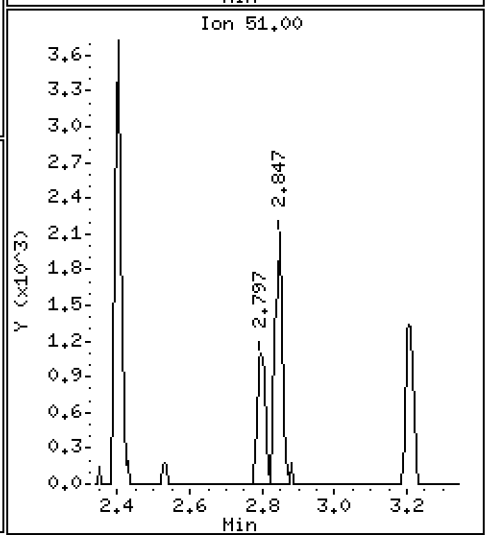












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 37

Date : 24-OCT-2016 23:25

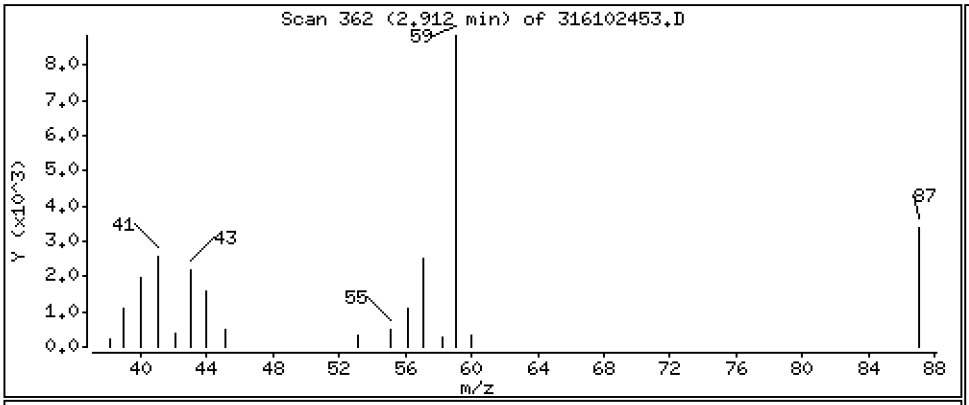
Client ID: Instrument: ms03.i

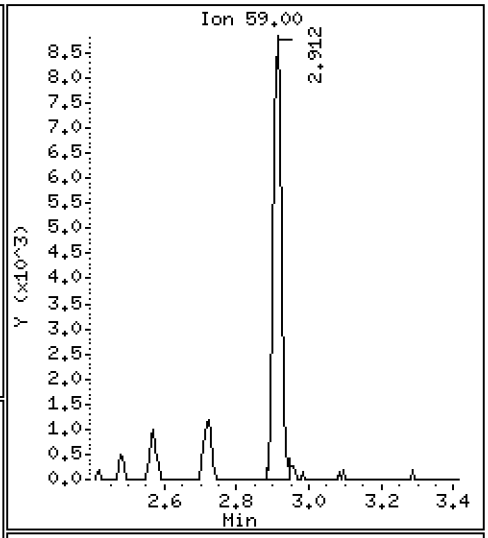
Sample Info: VSTD00.5;;1;1;8;;;

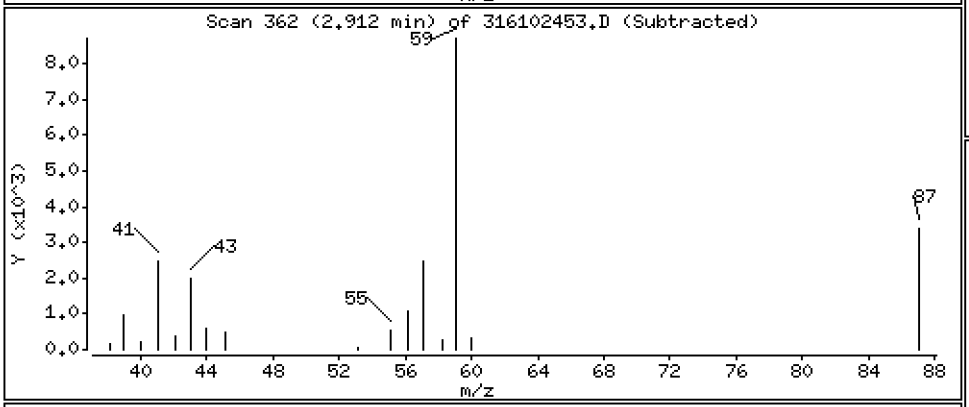
Purge Volume: 5.0 Operator: CJG

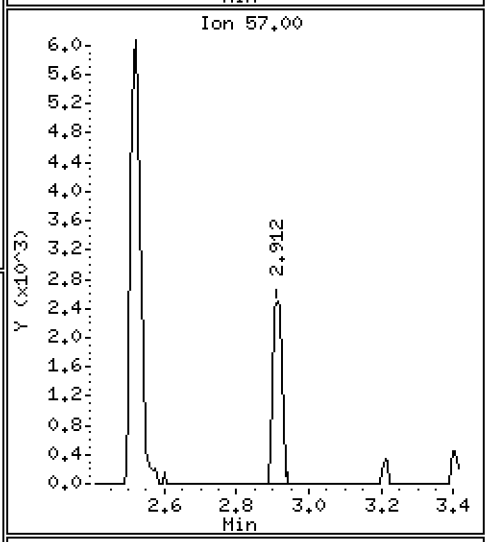
Column phase: DB-VRX Column diameter: 0.25

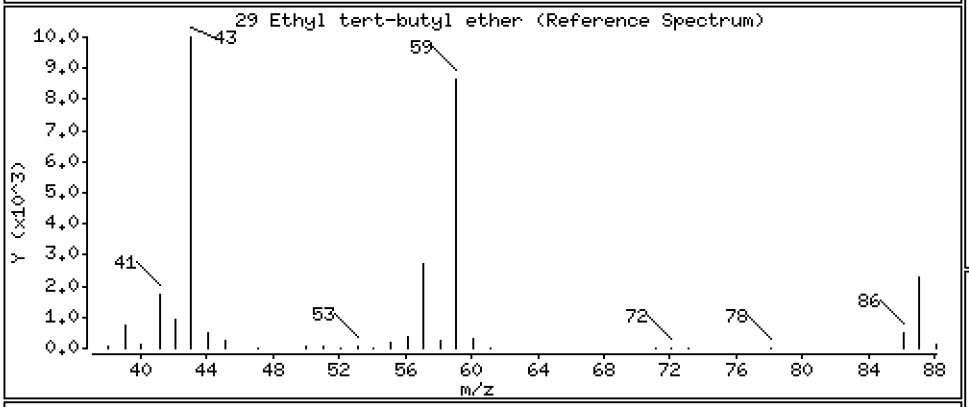
29 Ethyl tert-butyl ether Concentration: 0.477618 ug/L

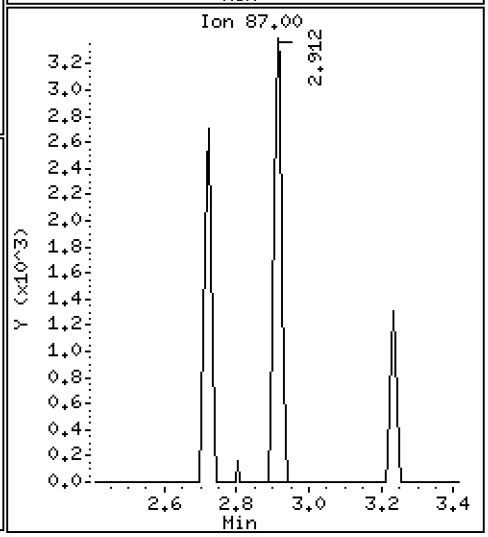


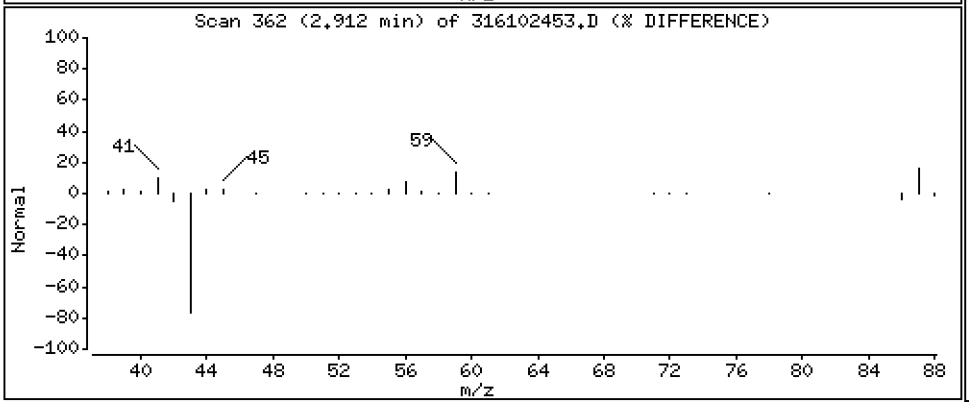












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 38

Date : 24-OCT-2016 23:25

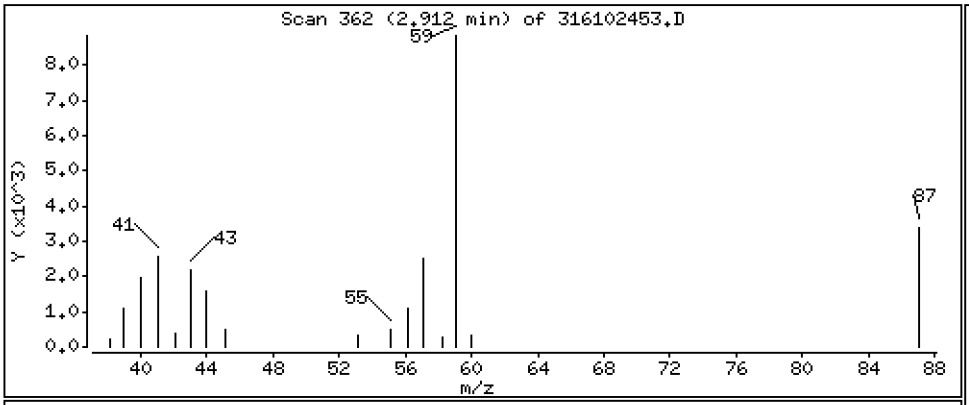
Client ID: Instrument: ms03.i

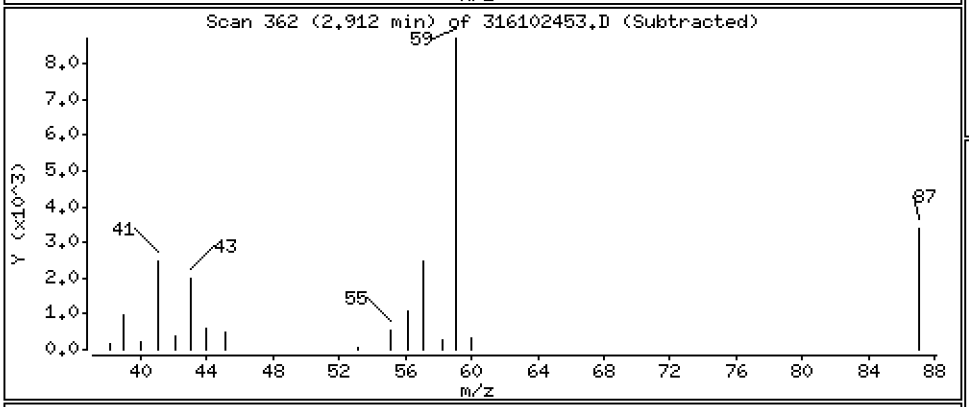
Sample Info: VSTD00.5;;1;1;8;;;

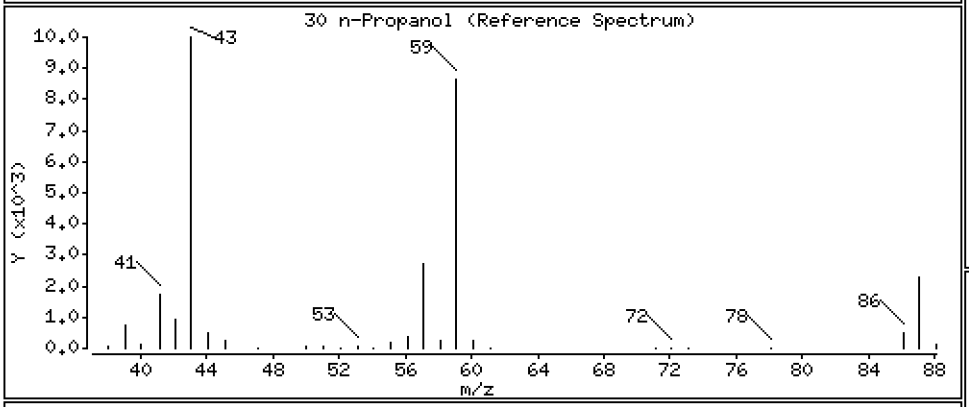
Purge Volume: 5.0 Operator: CJG

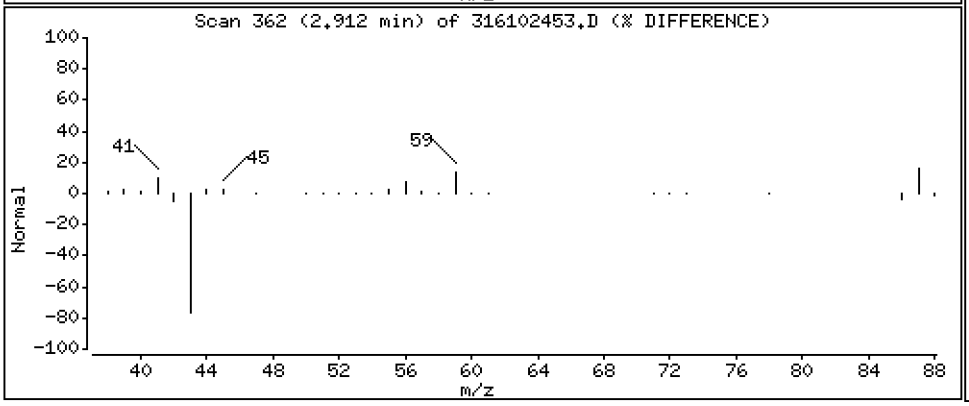
Column phase: DB-VRX Column diameter: 0.25

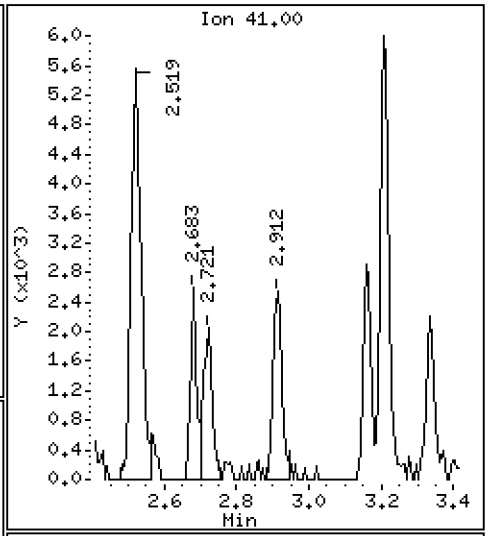
30 n-Propanol Concentration: 6.90834 ug/L

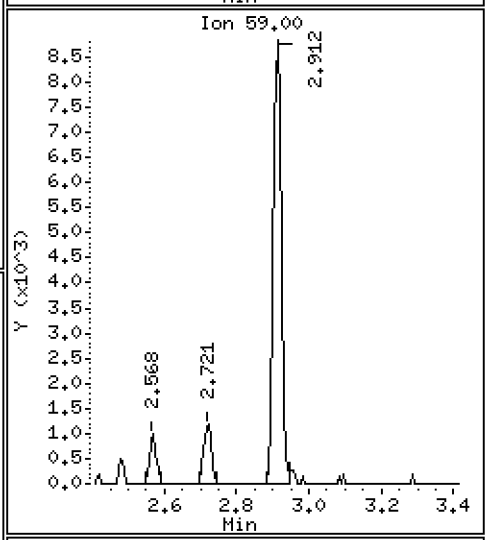


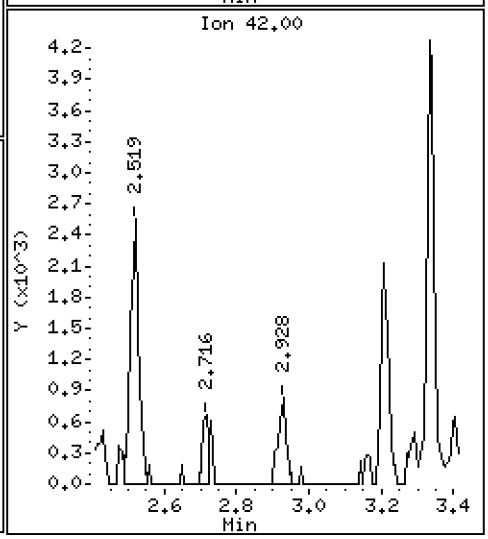












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 39

Date : 24-OCT-2016 23:25

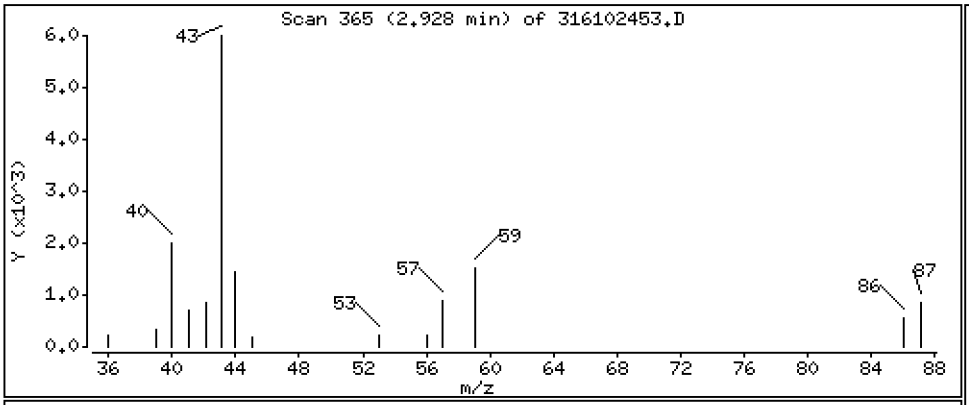
Client ID: Instrument: ms03.i

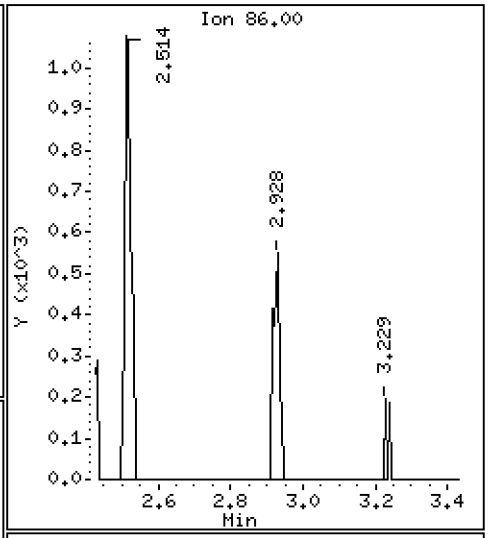
Sample Info: VSTD00.5;;1;1;8;;;

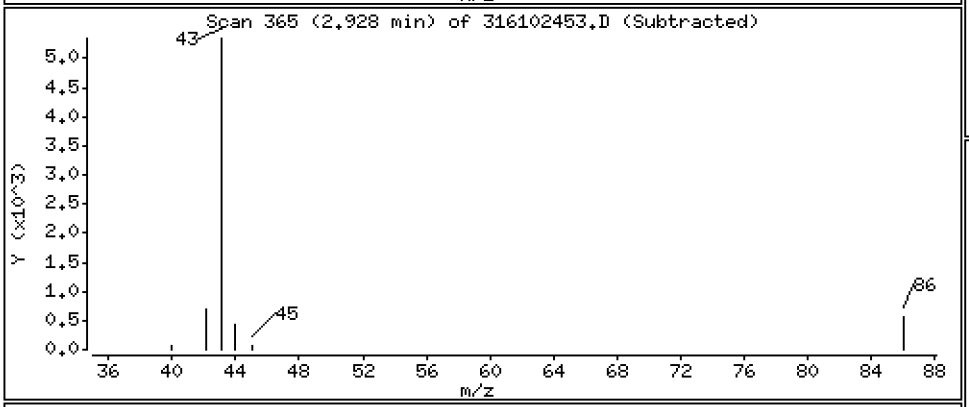
Purge Volume: 5.0 Operator: CJG

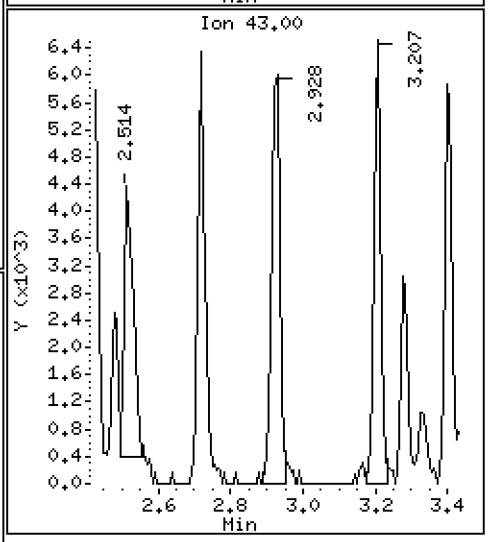
Column phase: DB-VRX Column diameter: 0.25

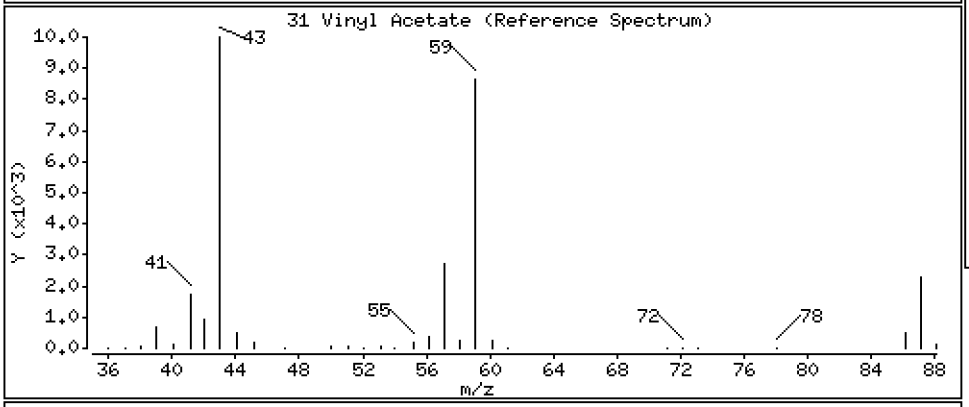
31 Vinyl Acetate Concentration: 0.338186 ug/L

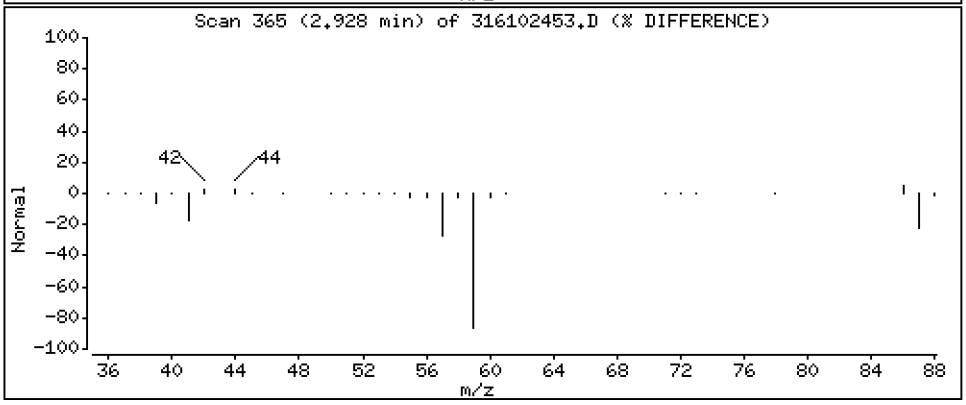












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 40

Date : 24-OCT-2016 23:25

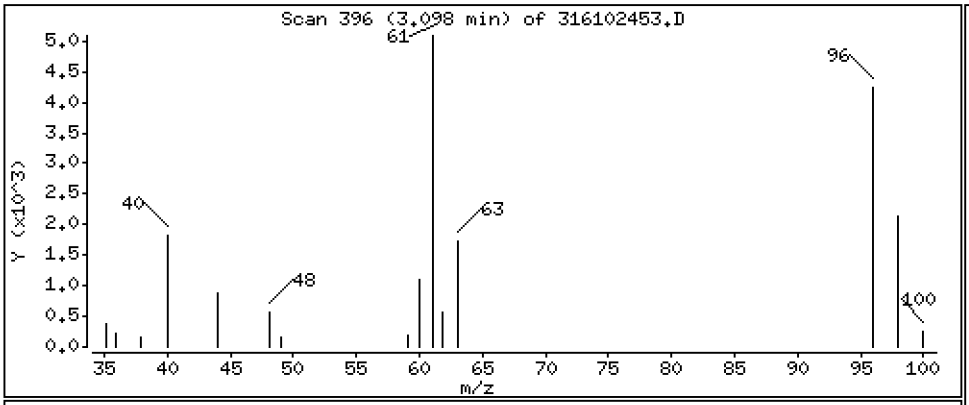
Client ID: Instrument: ms03.i

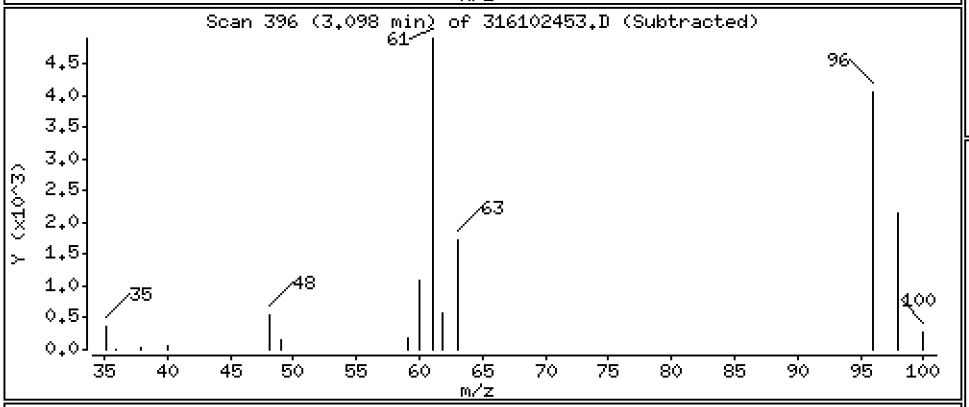
Sample Info: VSTD00.5;;1;1;8;;;

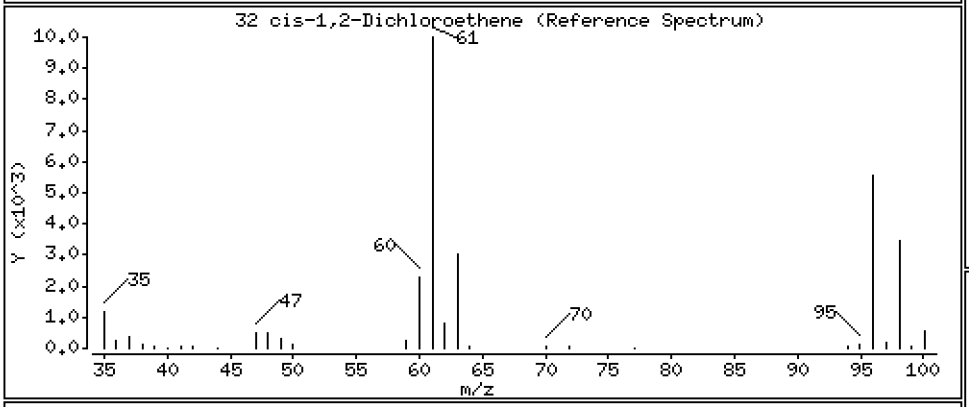
Purge Volume: 5.0 Operator: CJG

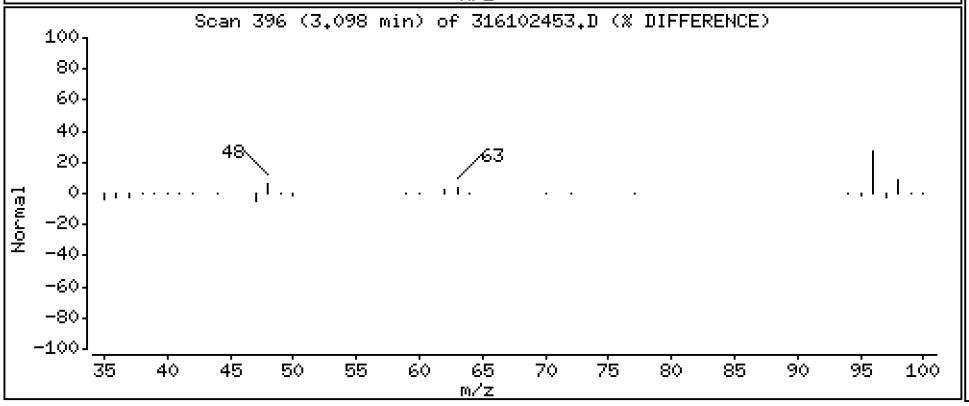
Column phase: DB-VRX Column diameter: 0.25

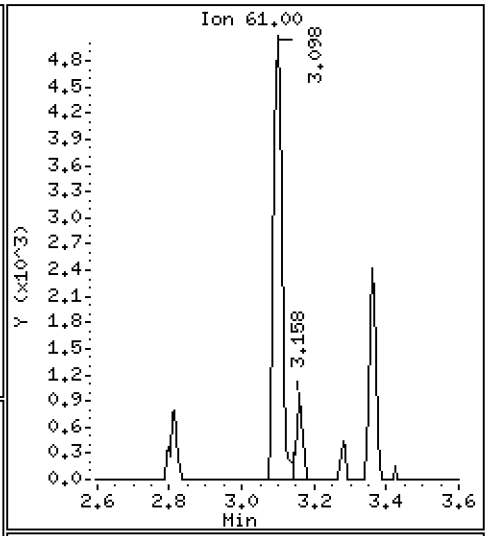
32 cis-1,2-Dichloroethene Concentration: 0.610059 ug/L

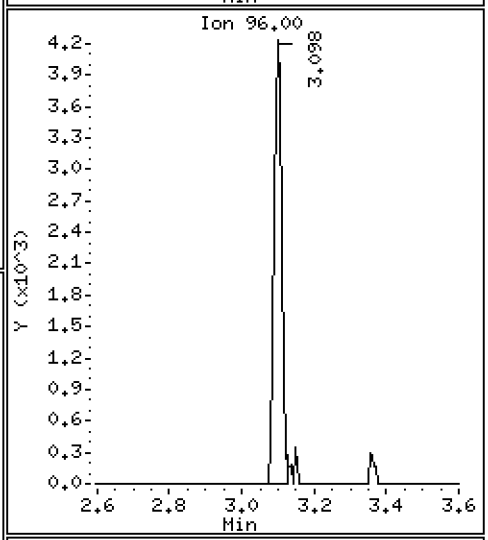


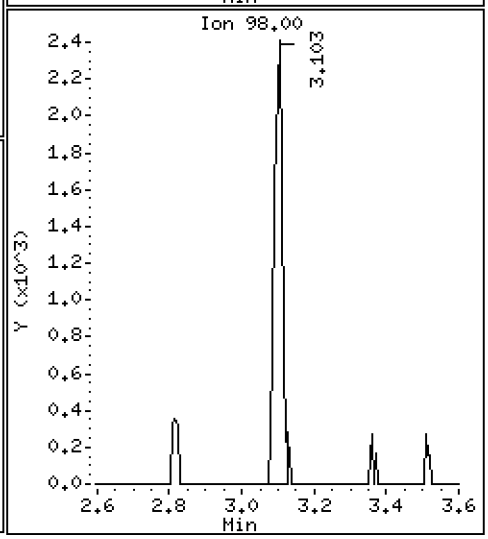












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 41

Date : 24-OCT-2016 23:25

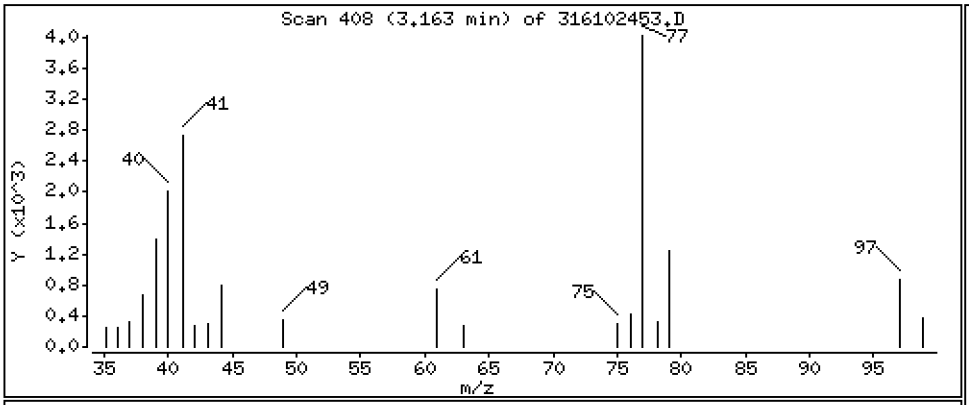
Client ID: Instrument: ms03.i

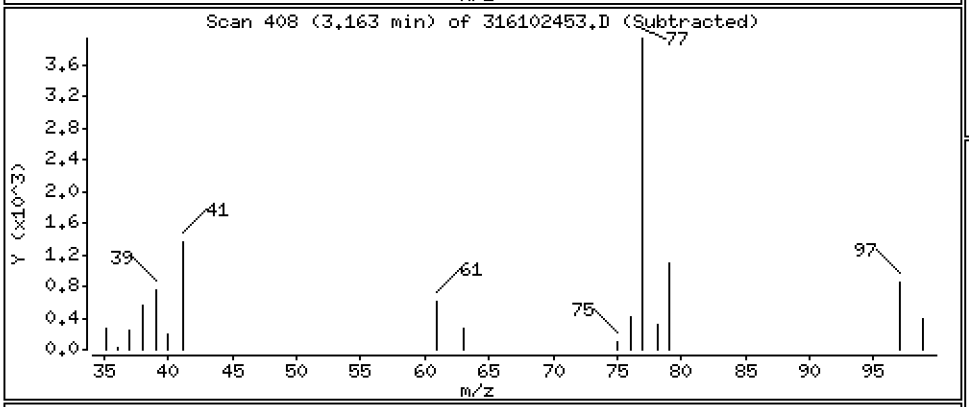
Sample Info: VSTD00.5;;1;1;8;;;

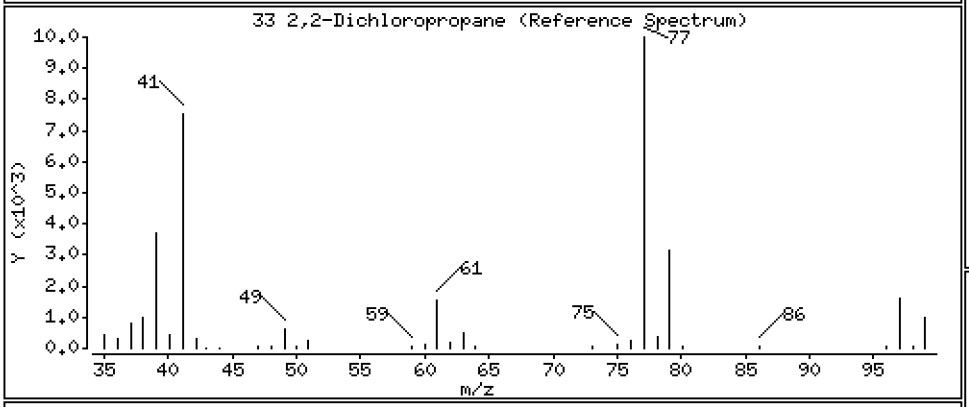
Purge Volume: 5.0 Operator: CJG

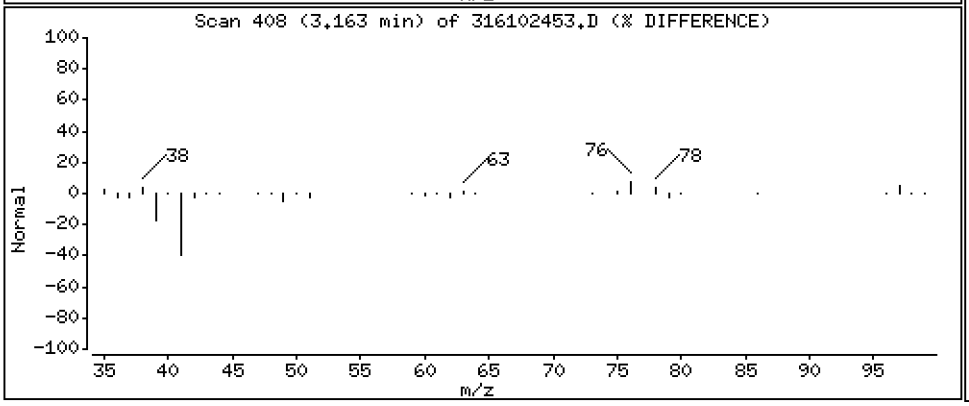
Column phase: DB-VRX Column diameter: 0.25

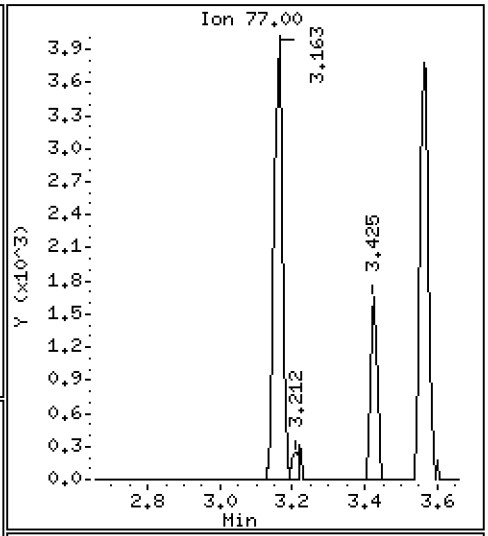
33 2,2-Dichloropropane Concentration: 0.586095 ug/L

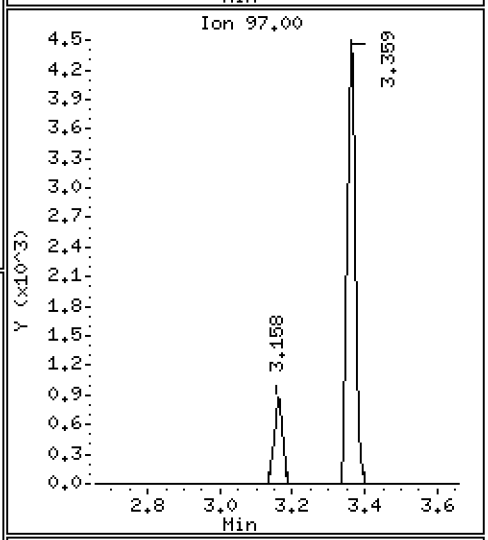


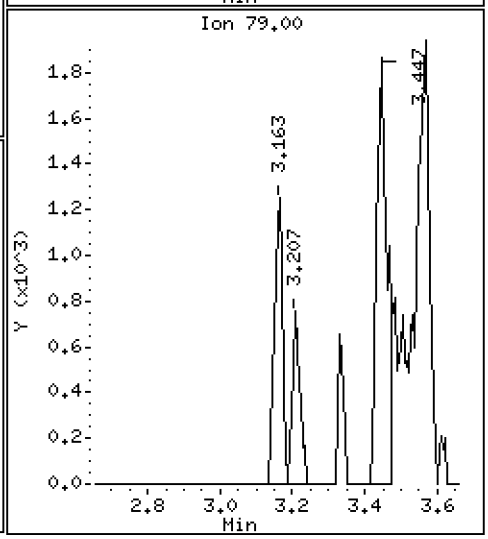












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 42

Date : 24-OCT-2016 23:25

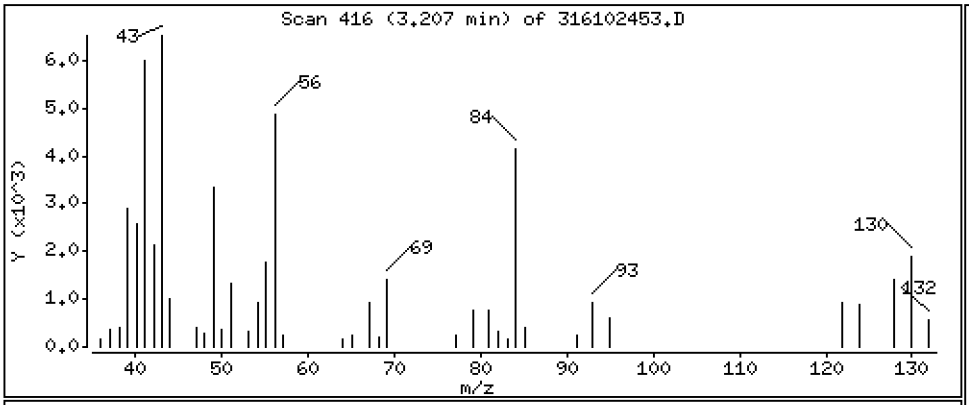
Client ID: Instrument: ms03.i

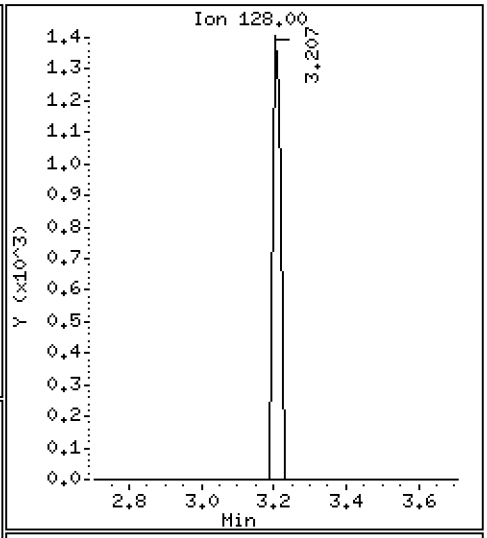
Sample Info: VSTD00.5;;1;1;8;;;

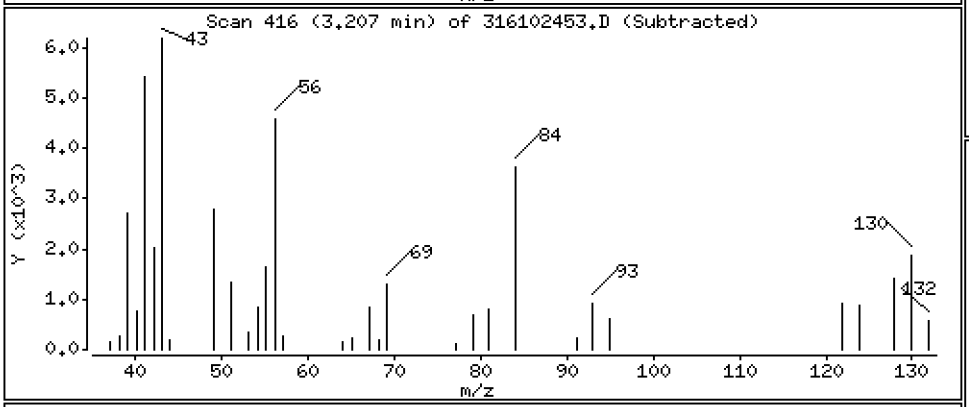
Purge Volume: 5.0 Operator: CJG

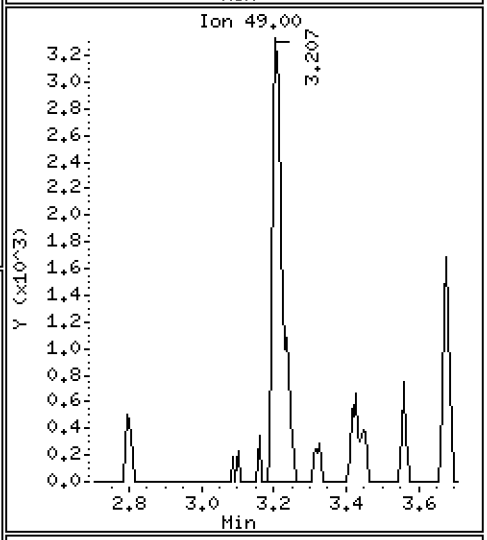
Column phase: DB-VRX Column diameter: 0.25

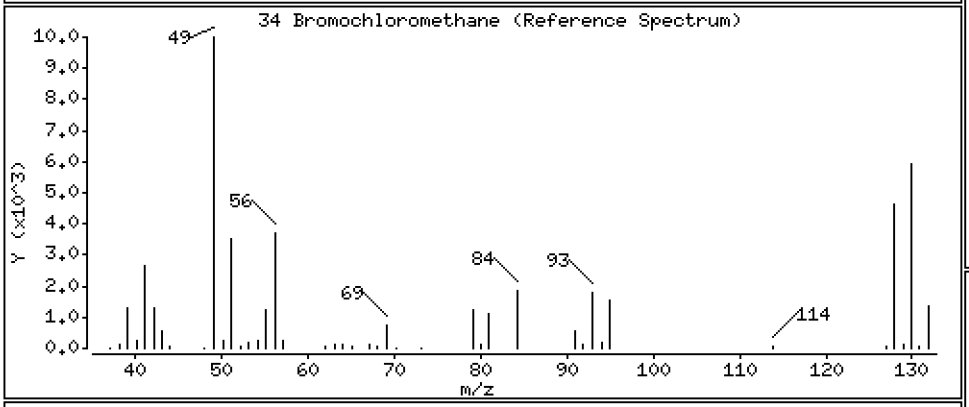
34 Bromochloromethane Concentration: 0.506762 ug/L

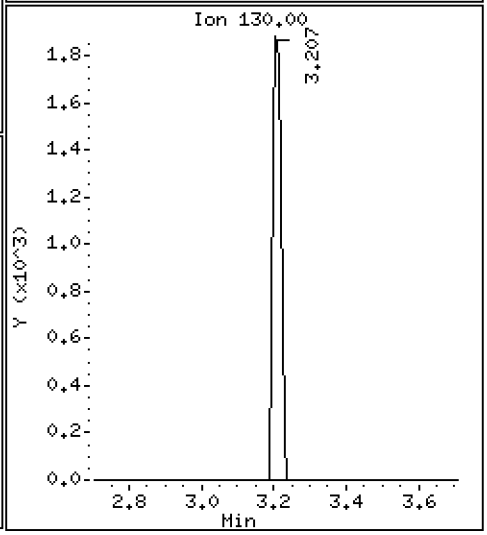


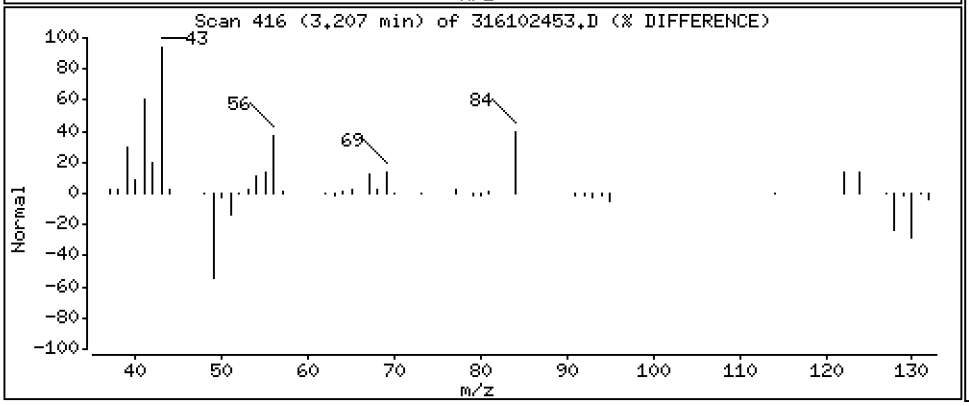












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 43

Date : 24-OCT-2016 23:25

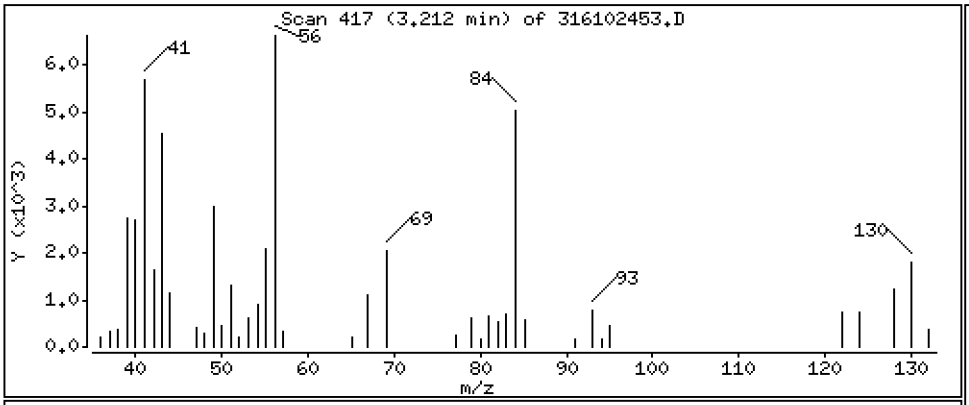
Client ID: Instrument: ms03.i

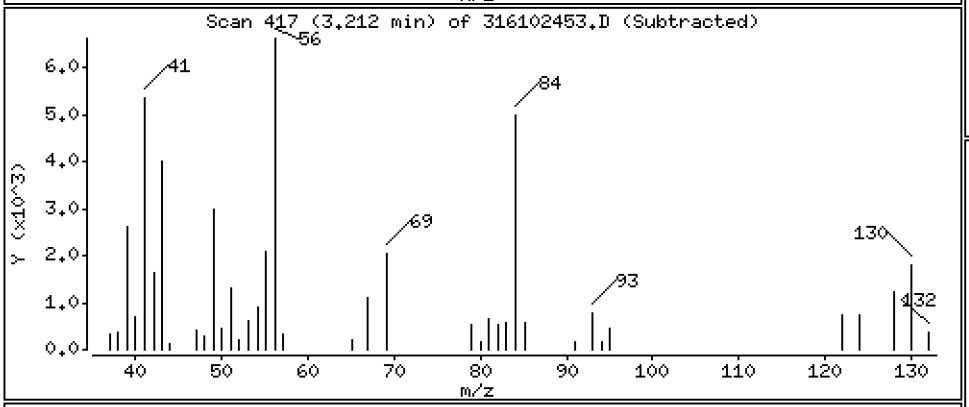
Sample Info: VSTD00.5;;1;1;8;;;

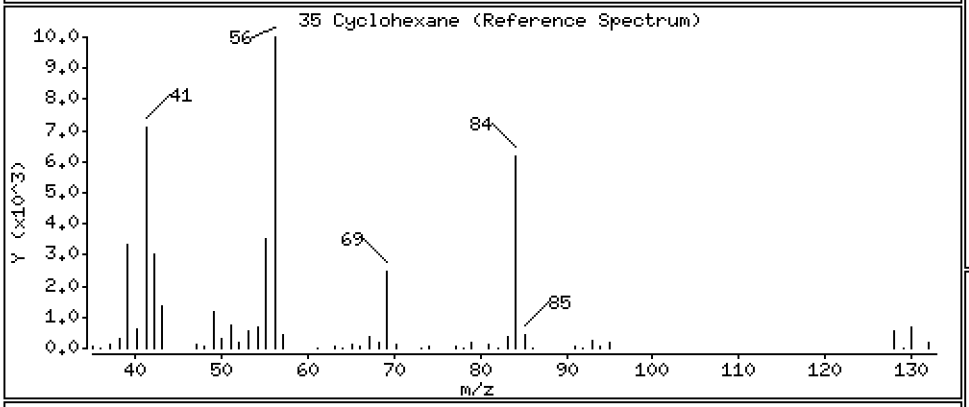
Purge Volume: 5.0 Operator: CJG

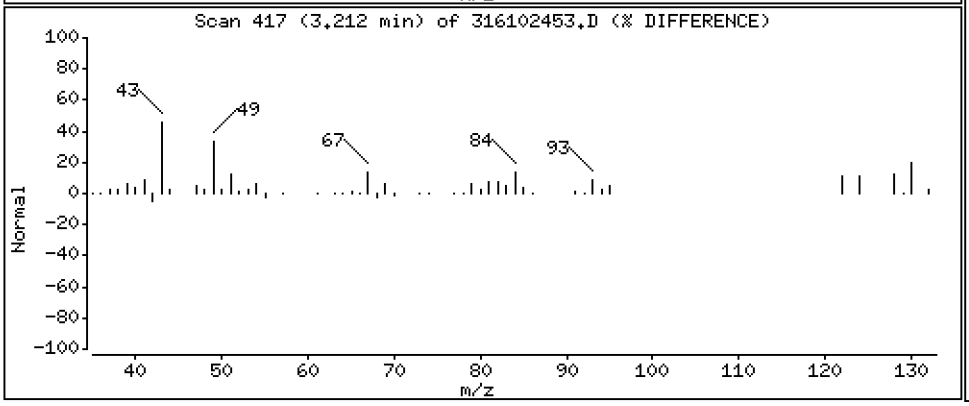
Column phase: DB-VRX Column diameter: 0.25

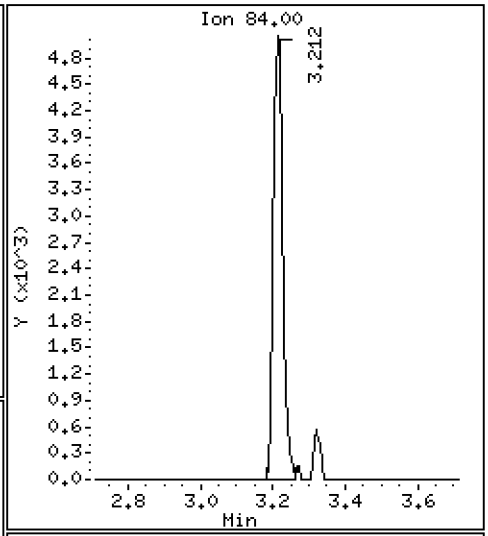
35 Cyclohexane Concentration: 0.722991 ug/L

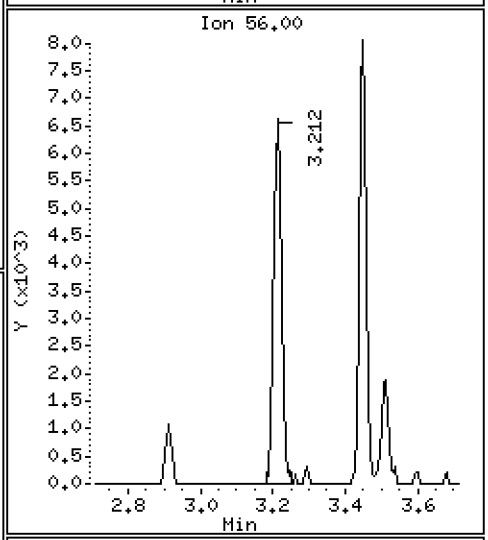


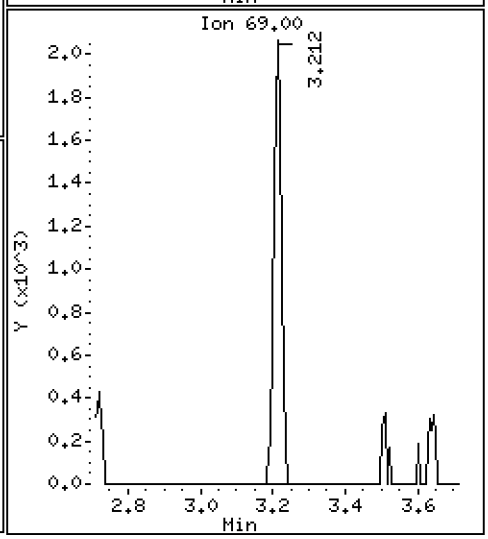












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 44

Date : 24-OCT-2016 23:25

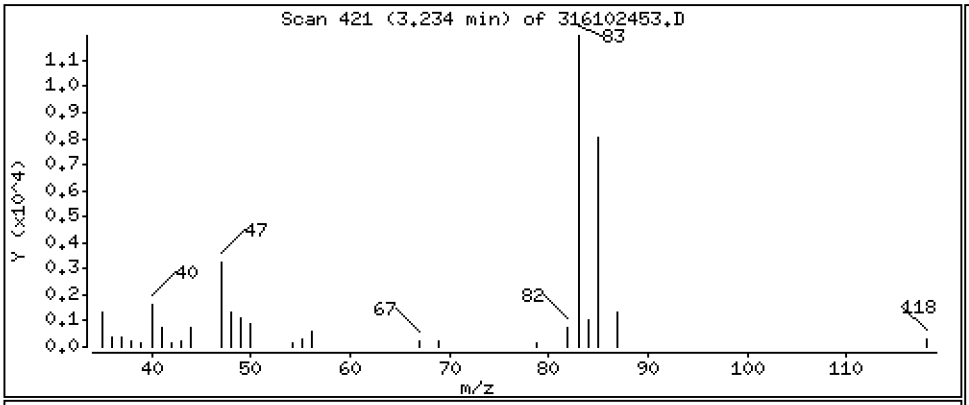
Client ID: Instrument: ms03.i

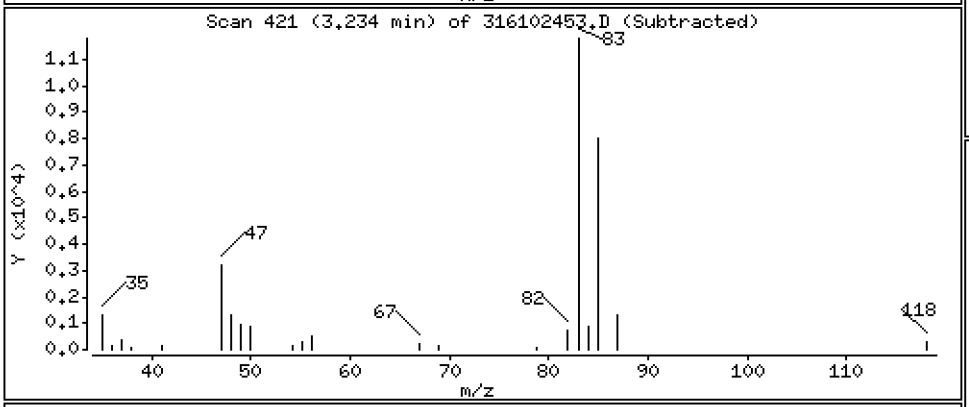
Sample Info: VSTD00.5;;1;1;8;;;

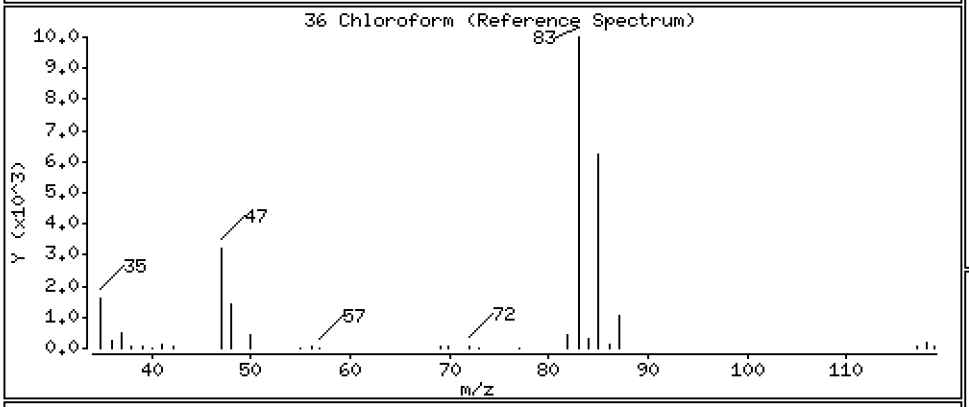
Purge Volume: 5.0 Operator: CJG

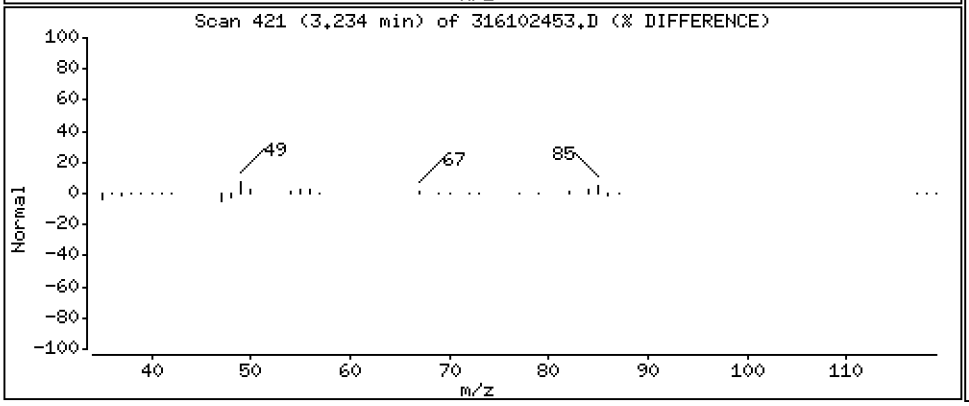
Column phase: DB-VRX Column diameter: 0.25

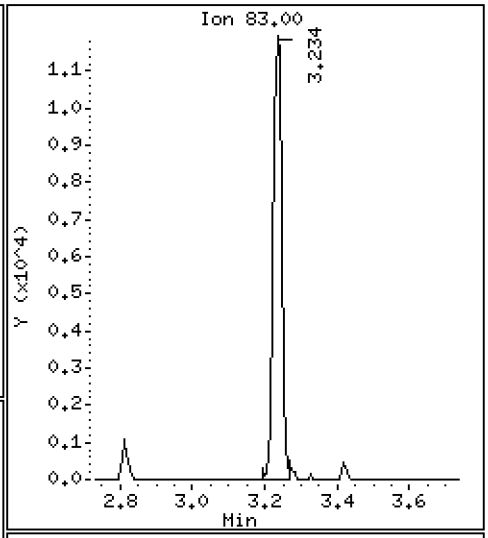
36 Chloroform Concentration: 1.14847 ug/L

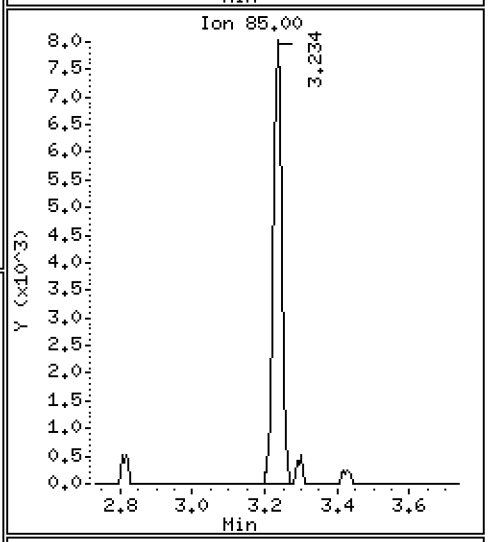


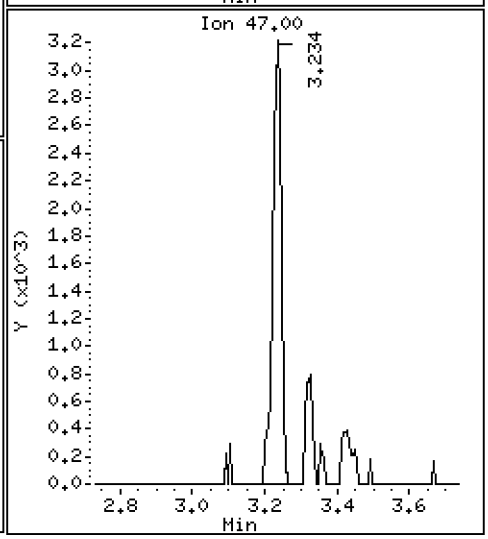












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 45

Date : 24-OCT-2016 23:25

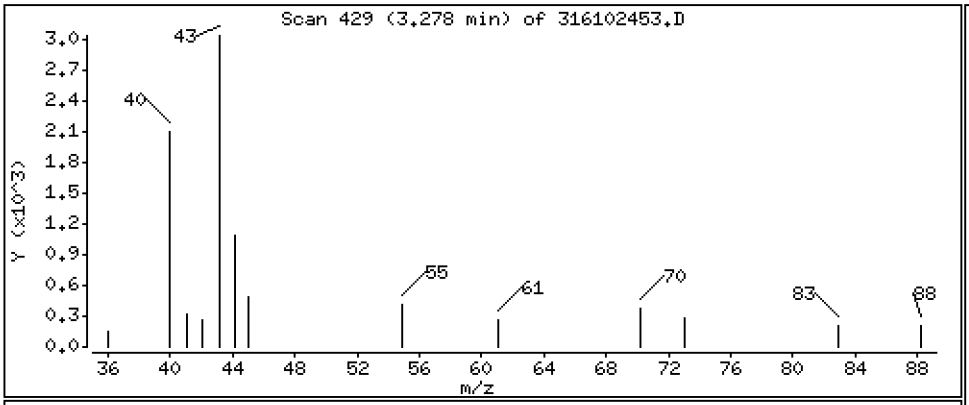
Client ID: Instrument: ms03.i

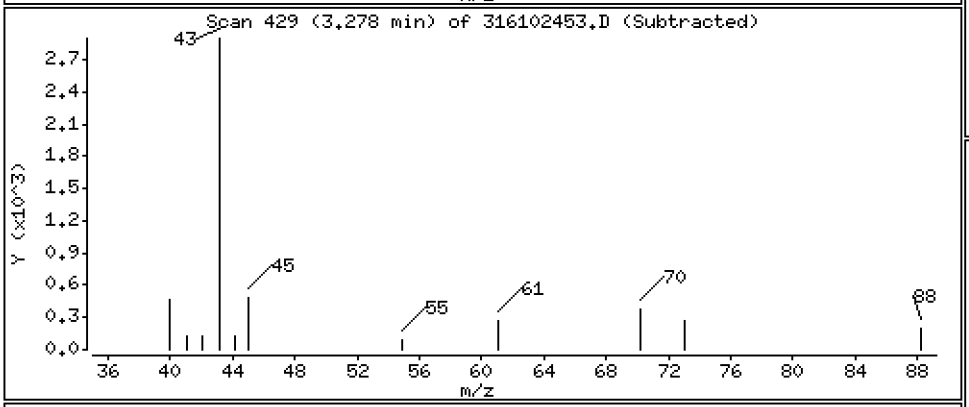
Sample Info: VSTD00.5;;1;1;8;;;

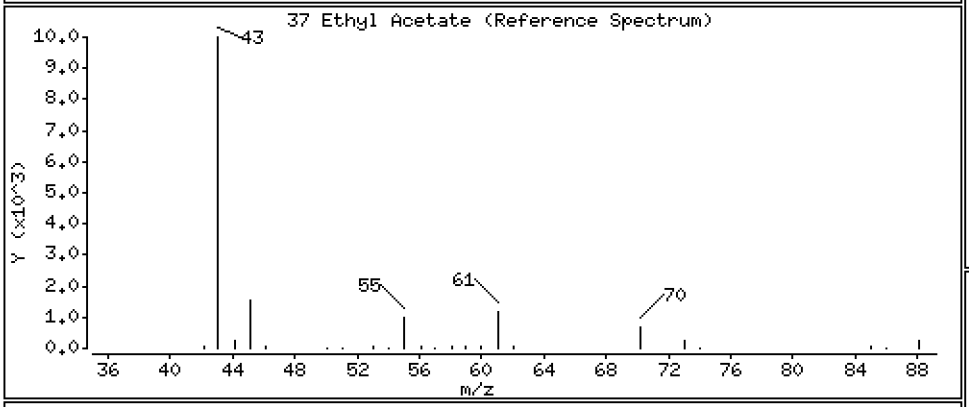
Purge Volume: 5.0 Operator: CJG

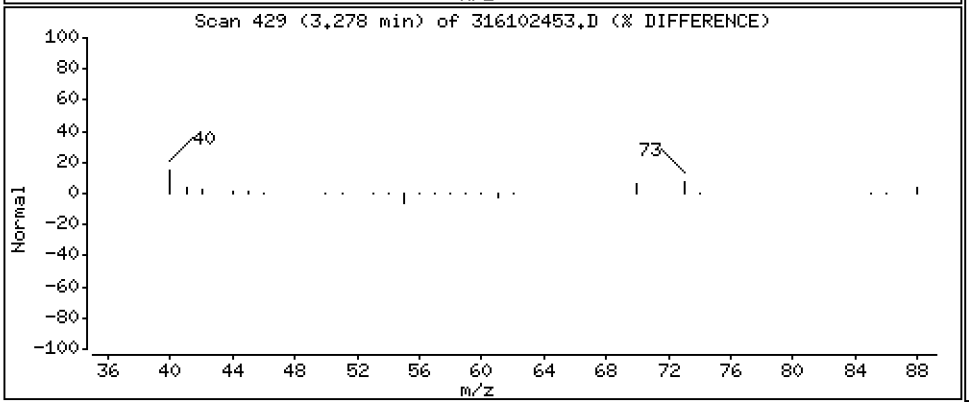
Column phase: DB-VRX Column diameter: 0.25

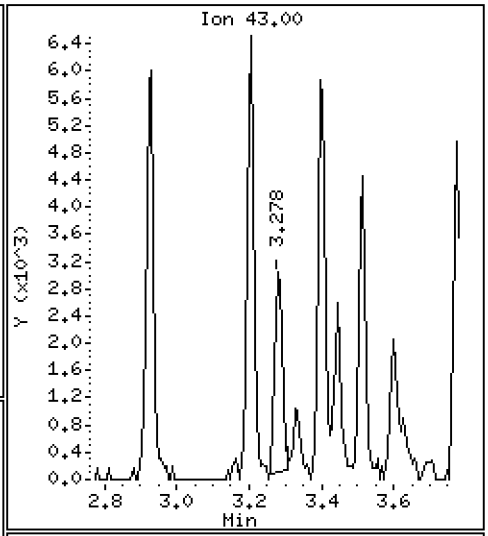
37 Ethyl Acetate Concentration: 0.534638 ug/L

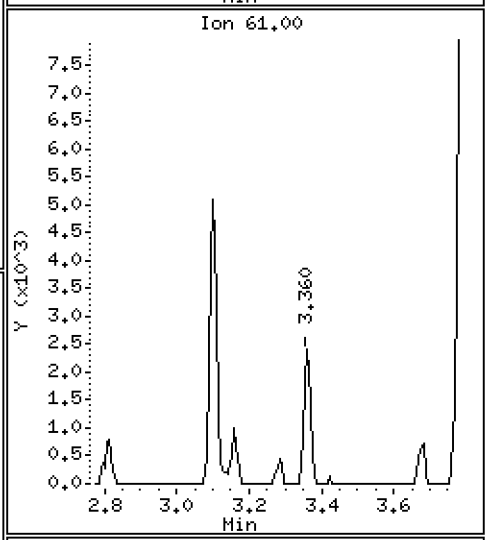


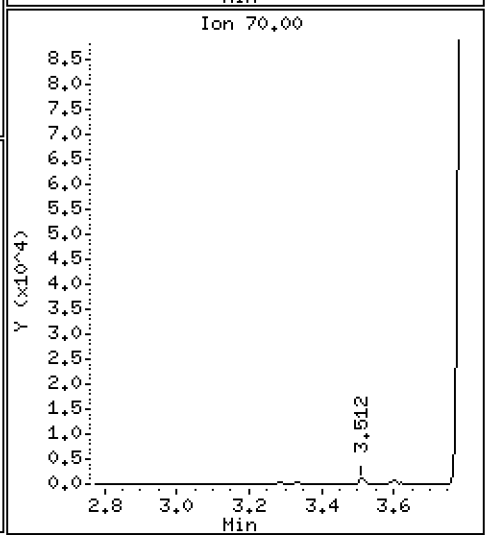












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 46

Date : 24-OCT-2016 23:25

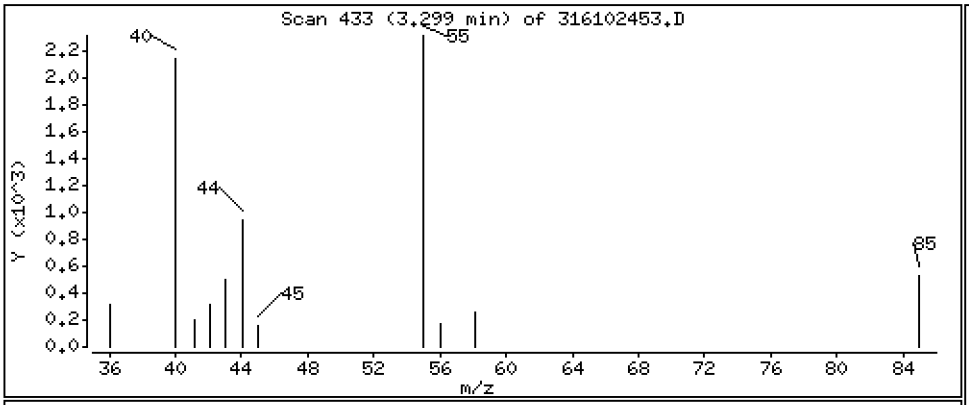
Client ID: Instrument: ms03.i

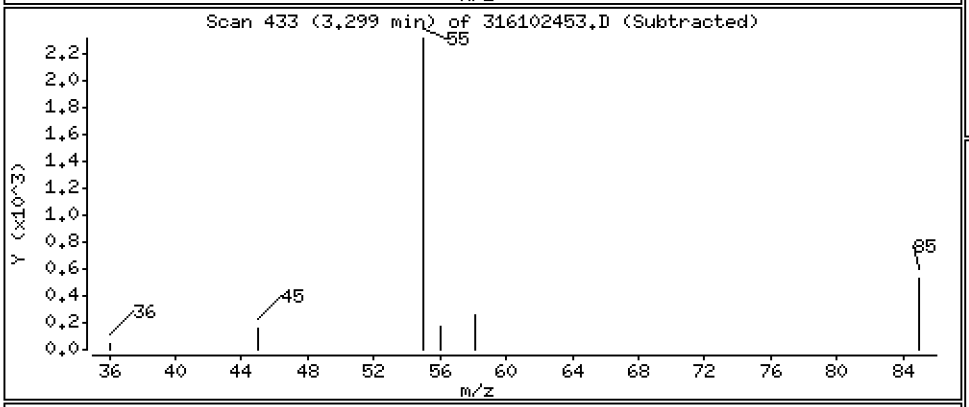
Sample Info: VSTD00.5;;1;1;8;;;

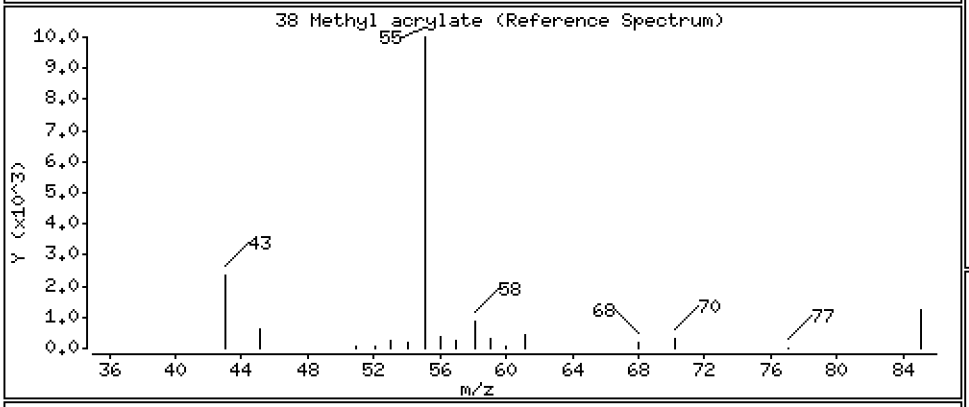
Purge Volume: 5.0 Operator: CJG

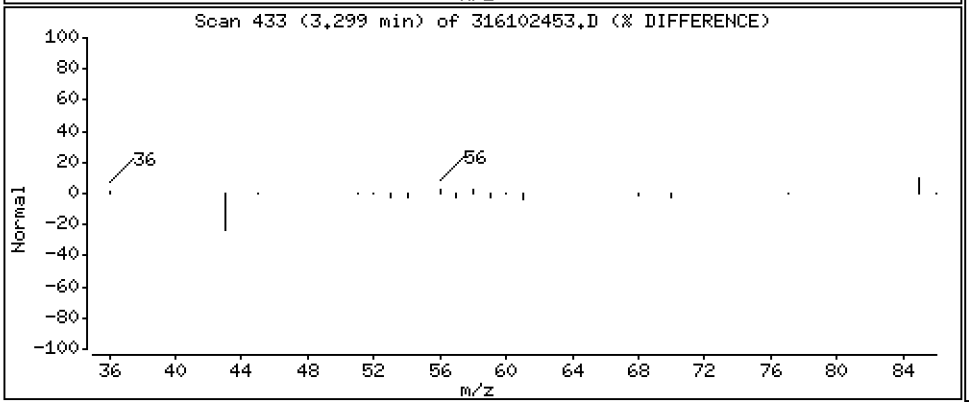
Column phase: DB-VRX Column diameter: 0.25

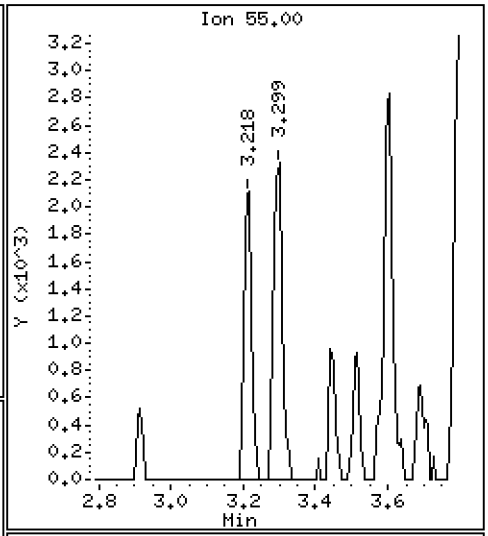
38 Methyl acrylate Concentration: 0.503452 ug/L

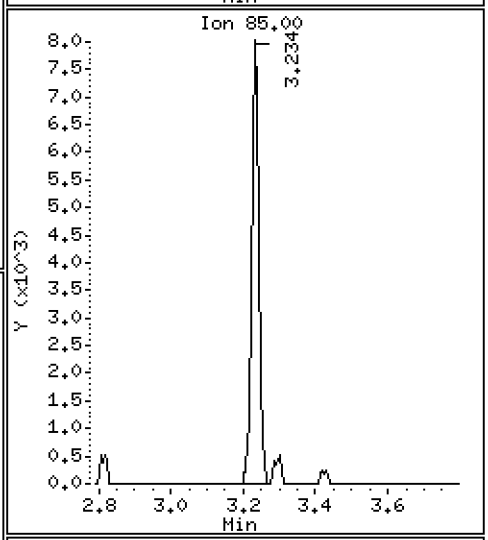


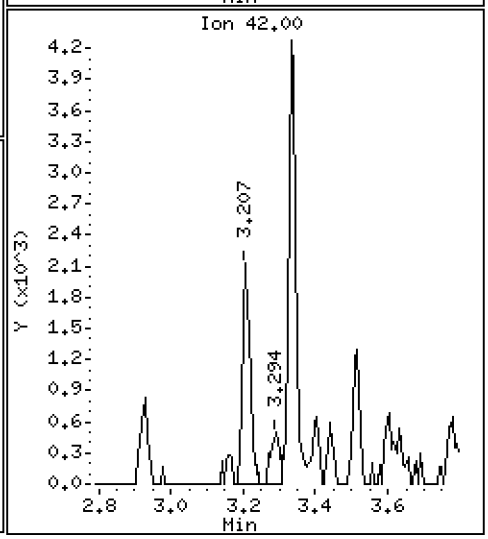












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 47

Date : 24-OCT-2016 23:25

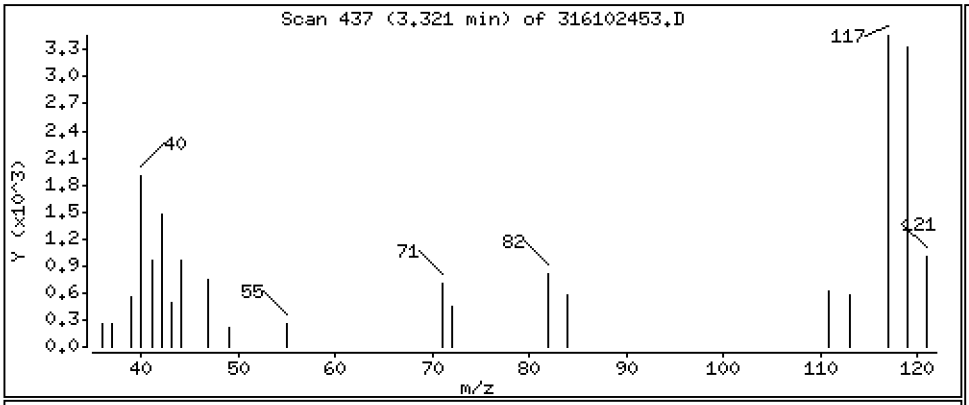
Client ID: Instrument: ms03.i

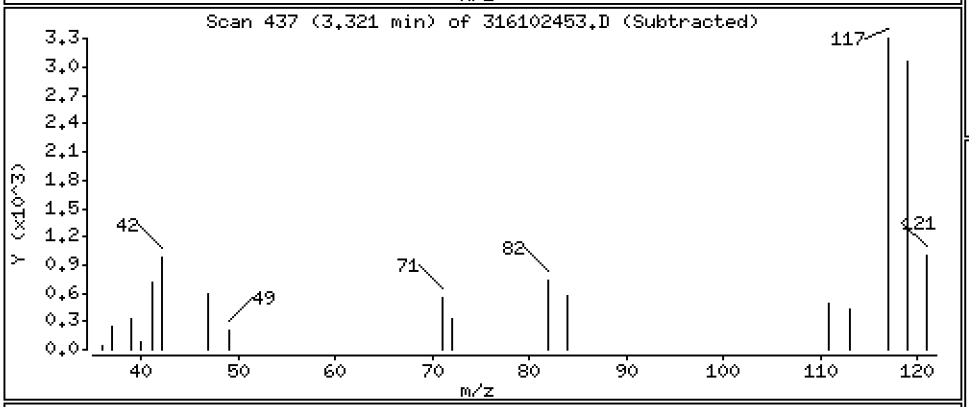
Sample Info: VSTD00.5;;1;1;8;;;

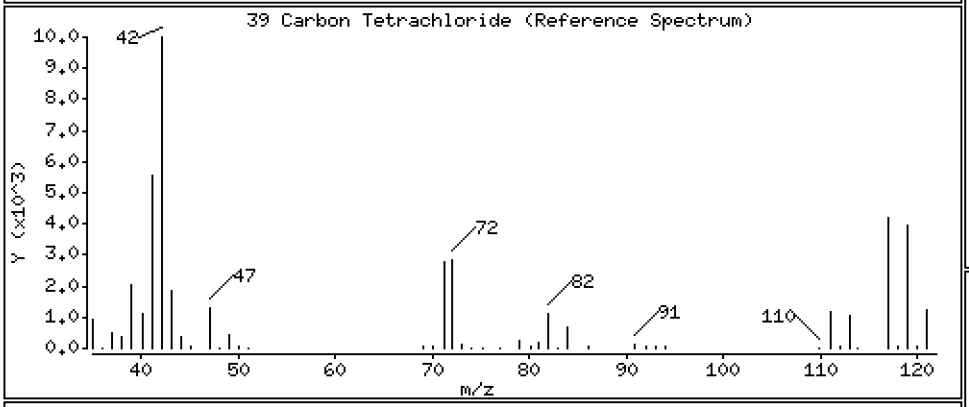
Purge Volume: 5.0 Operator: CJG

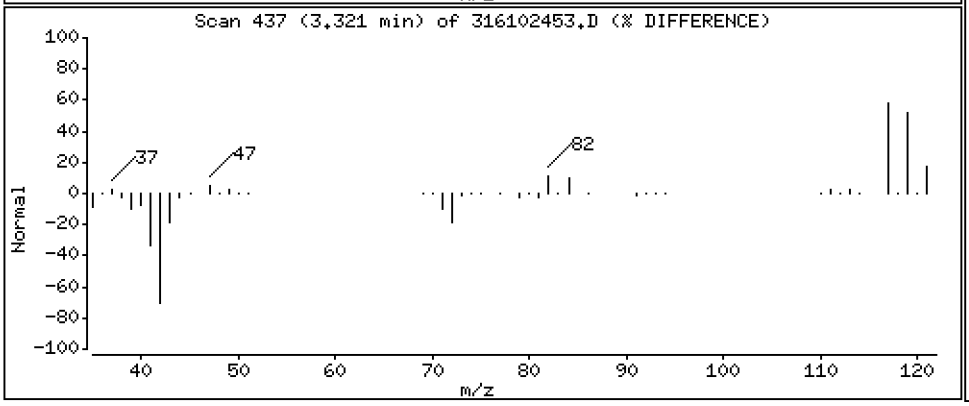
Column phase: DB-VRX Column diameter: 0.25

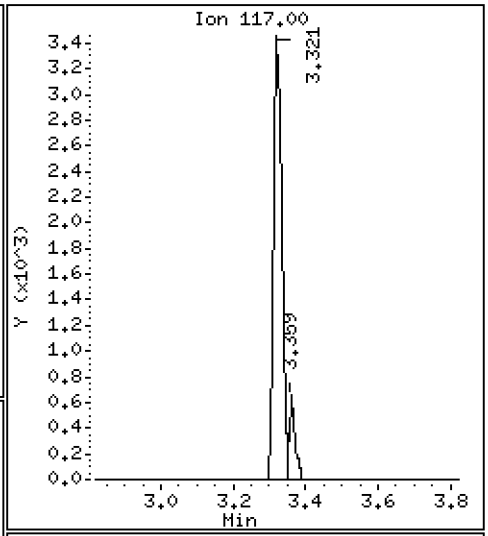
39 Carbon Tetrachloride Concentration: 0.600066 ug/L

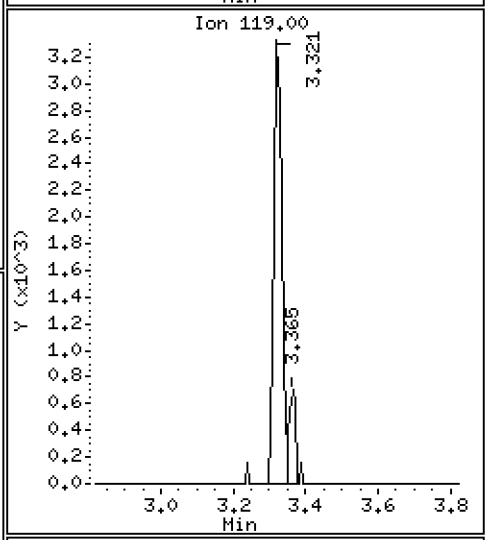


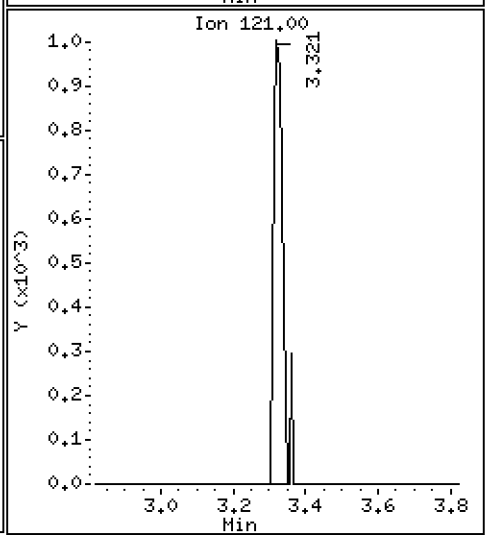












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 48

Date : 24-OCT-2016 23:25

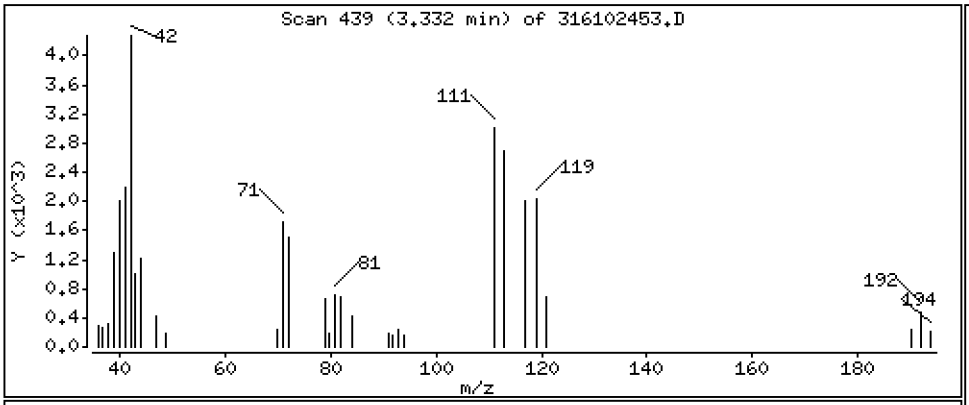
Client ID: Instrument: ms03.i

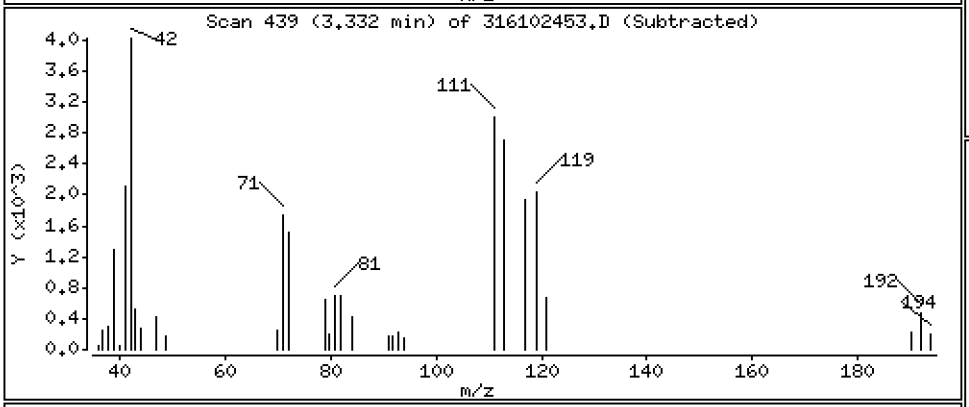
Sample Info: VSTD00.5;;1;1;8;;;

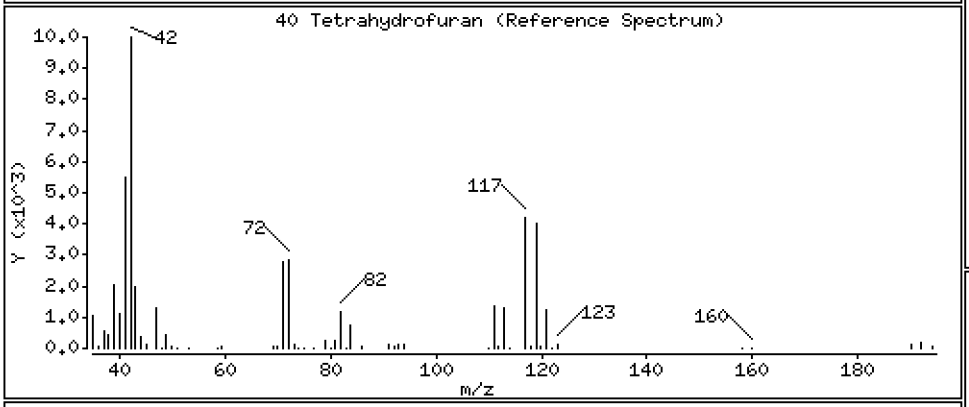
Purge Volume: 5.0 Operator: CJG

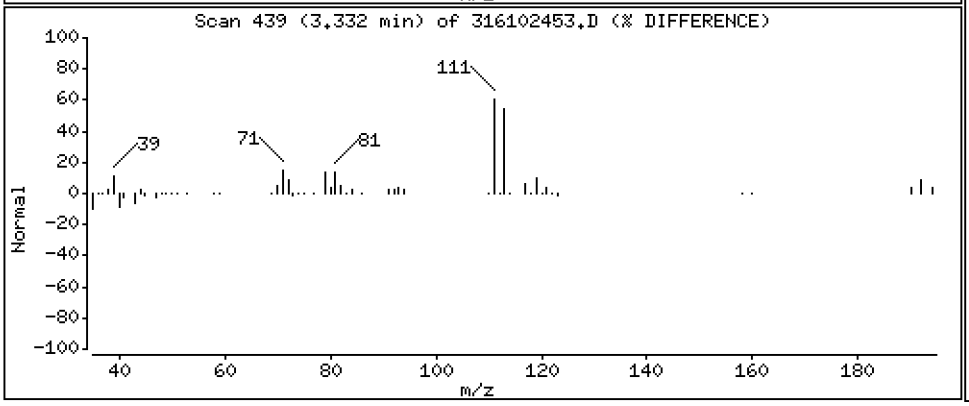
Column phase: DB-VRX Column diameter: 0.25

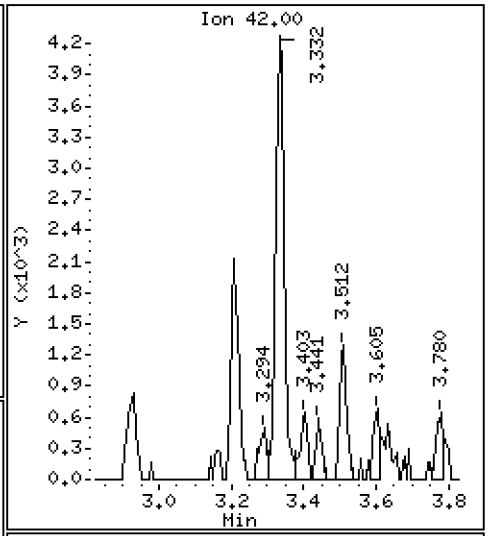
40 Tetrahydrofuran Concentration: 2.80663 ug/L

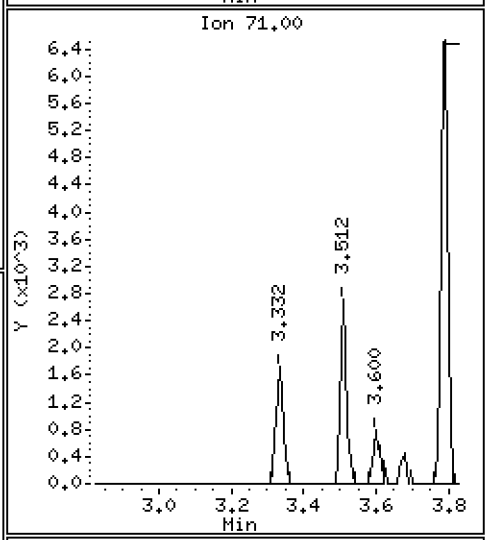


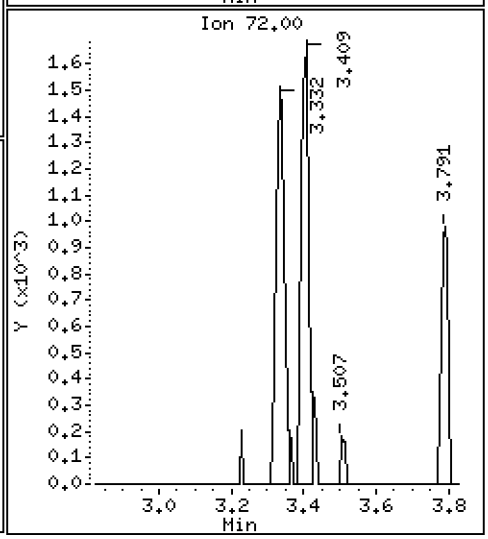












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 49

Date : 24-OCT-2016 23:25

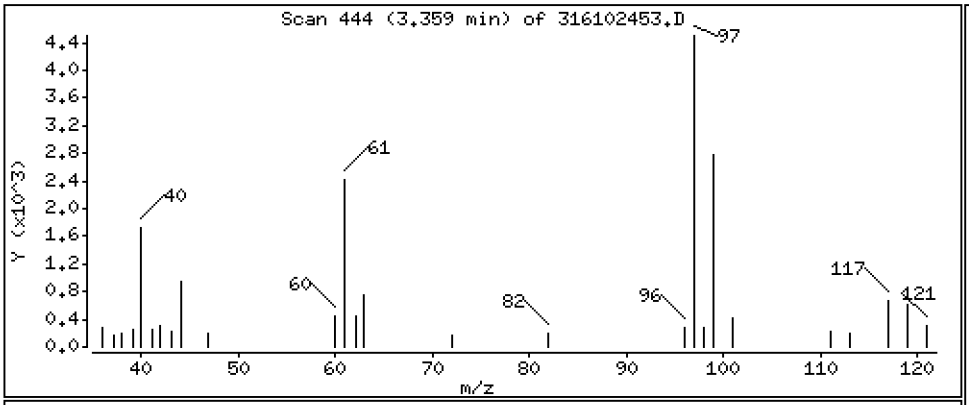
Client ID: Instrument: ms03.i

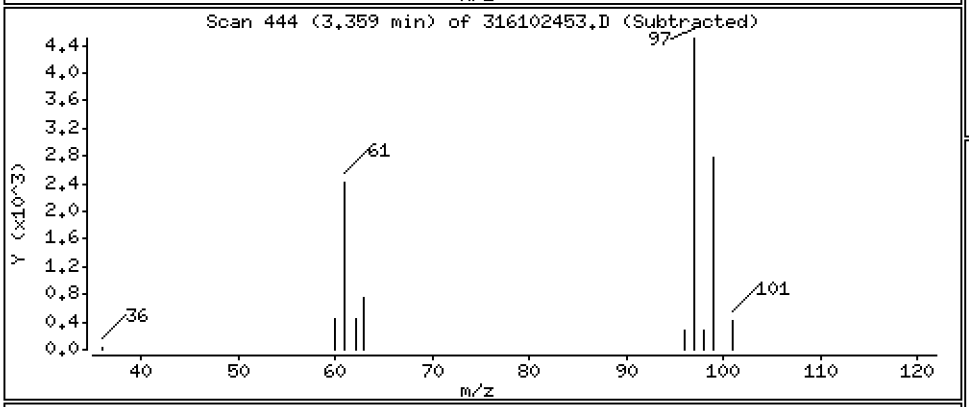
Sample Info: VSTD00.5;;1;1;8;;;

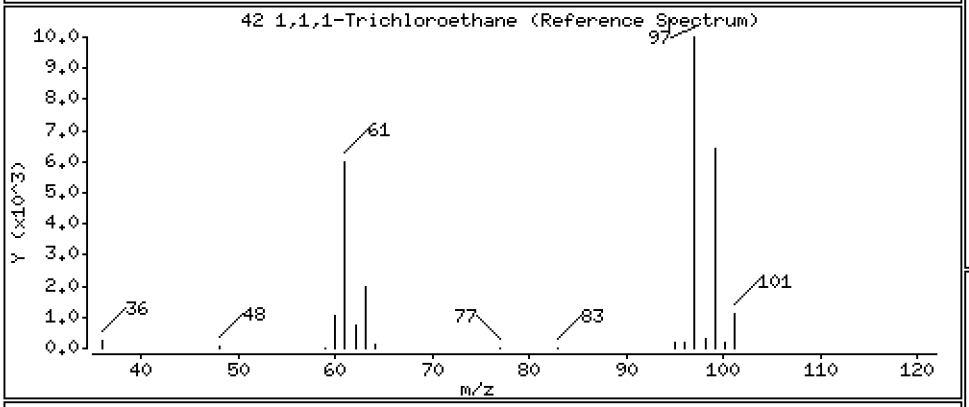
Purge Volume: 5.0 Operator: CJG

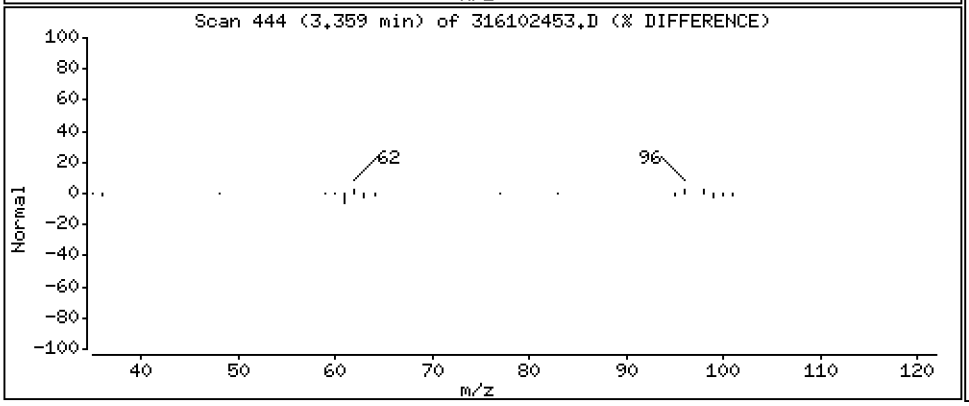
Column phase: DB-VRX Column diameter: 0.25

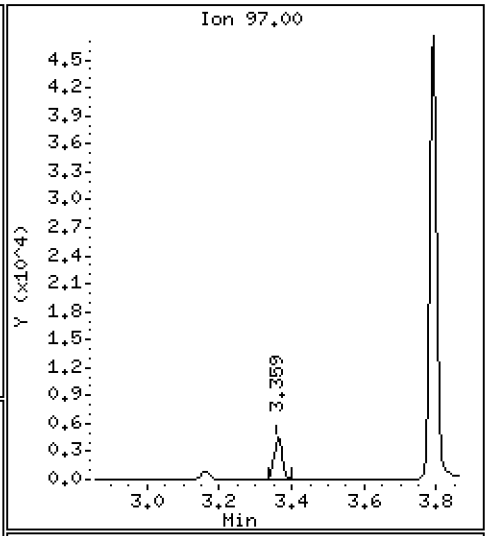
42 1,1,1-Trichloroethane Concentration: 0.562248 ug/L

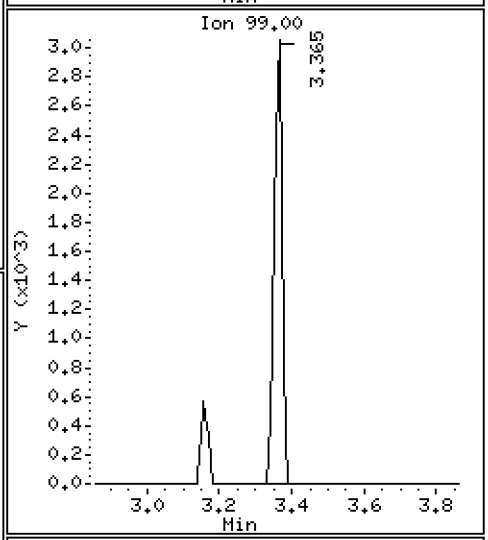


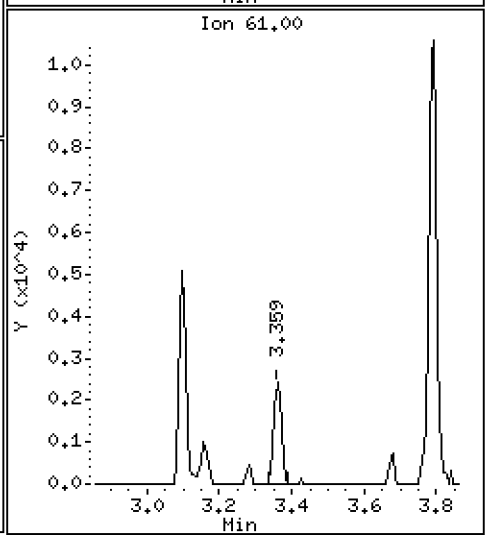












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 50

Date : 24-OCT-2016 23:25

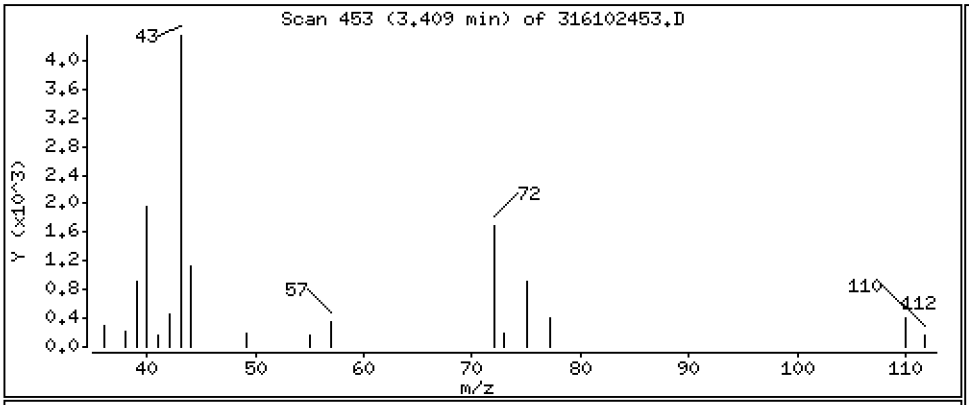
Client ID: Instrument: ms03.i

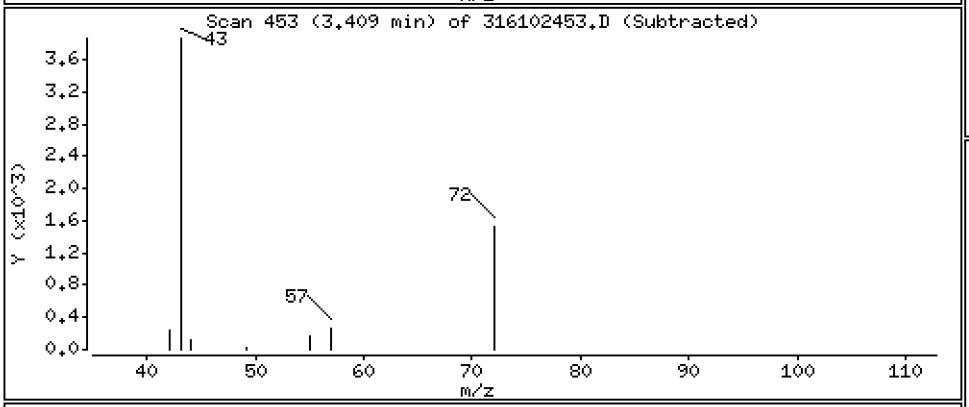
Sample Info: VSTD00.5;;1;1;8;;;

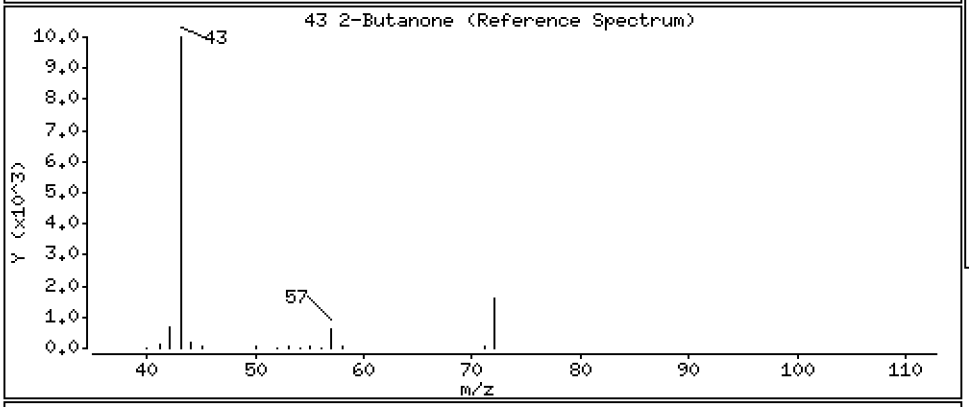
Purge Volume: 5.0 Operator: CJG

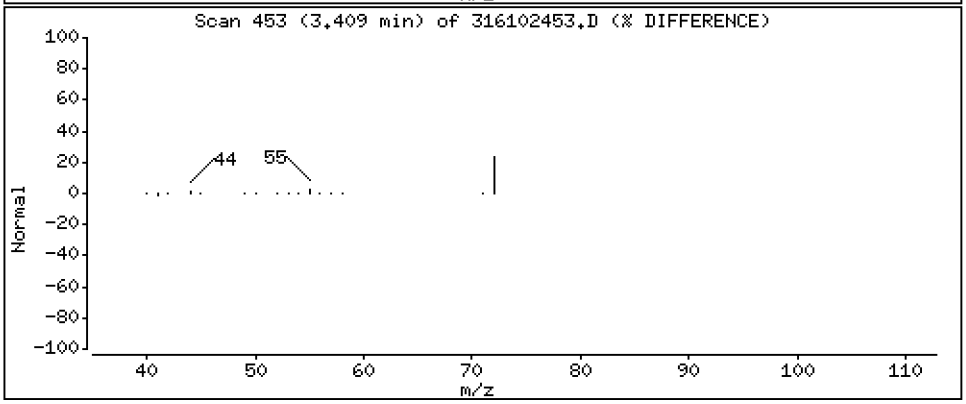
Column phase: DB-VRX Column diameter: 0.25

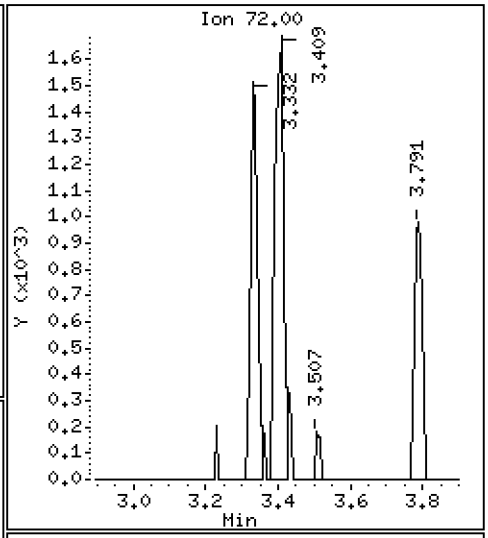
43 2-Butanone Concentration: 2.79648 ug/L

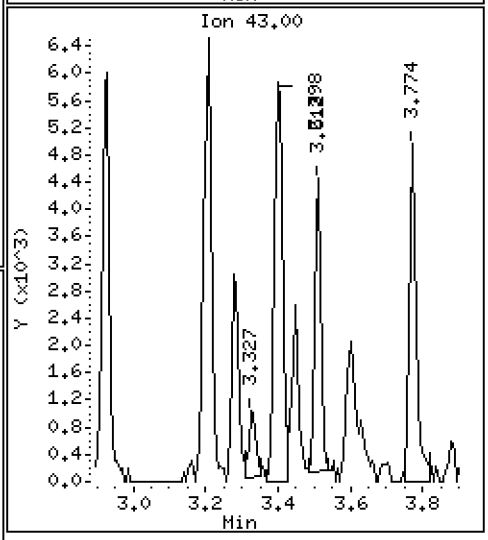












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 51

Date : 24-OCT-2016 23:25

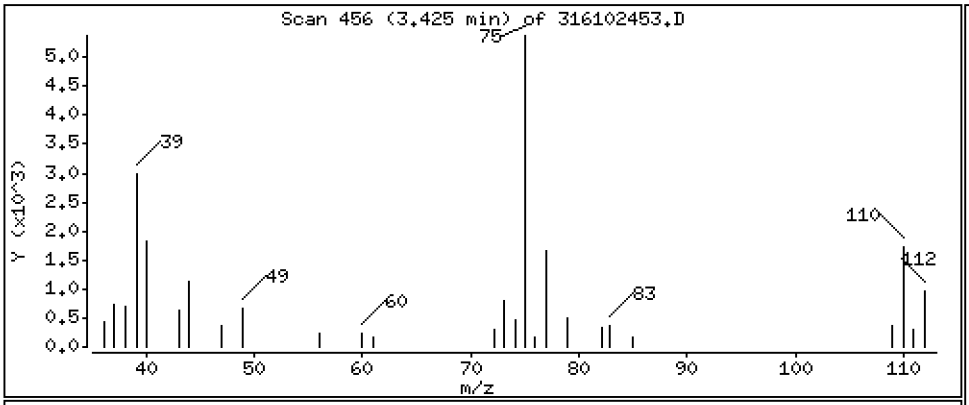
Client ID: Instrument: ms03.i

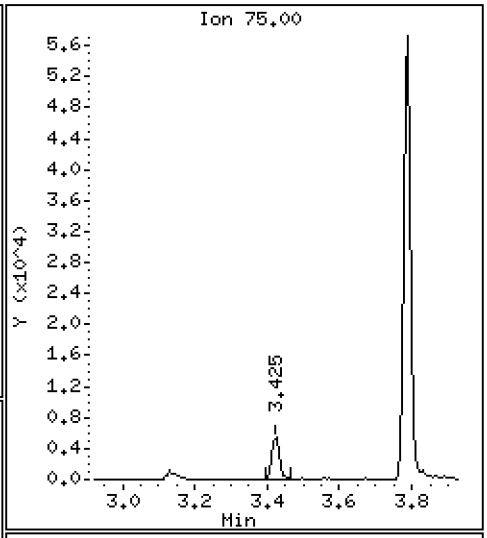
Sample Info: VSTD00.5;;1;1;8;;;

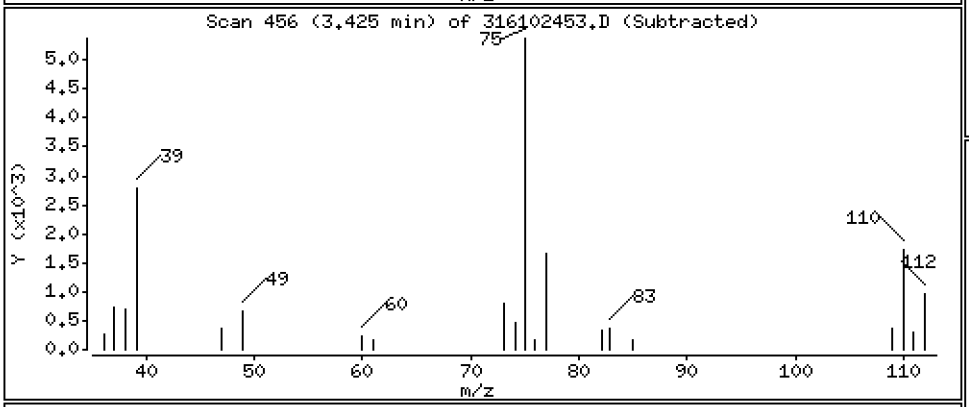
Purge Volume: 5.0 Operator: CJG

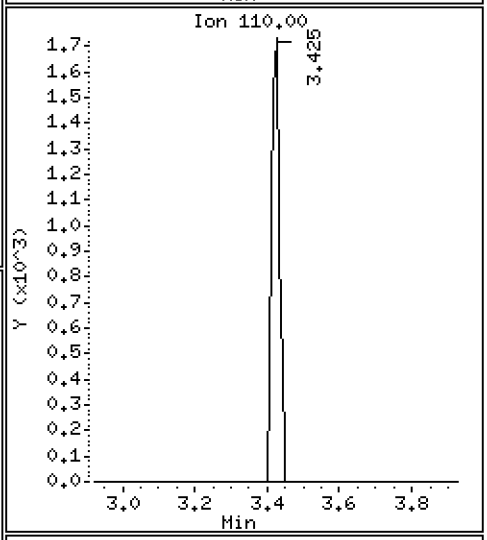
Column phase: DB-VRX Column diameter: 0.25

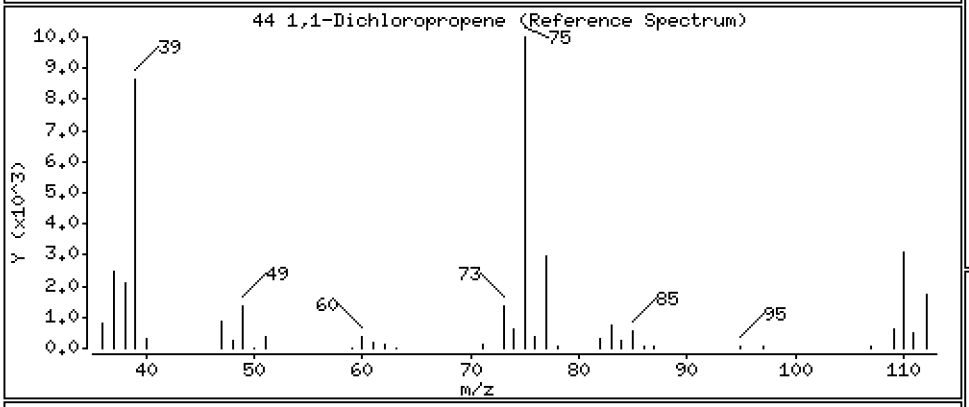
44 1,1-Dichloropropene Concentration: 0.643276 ug/L

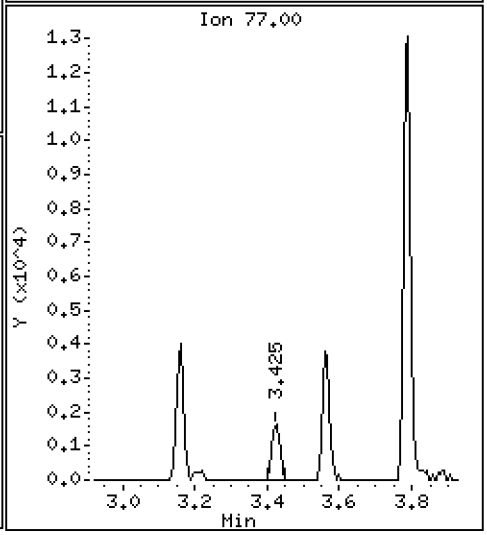


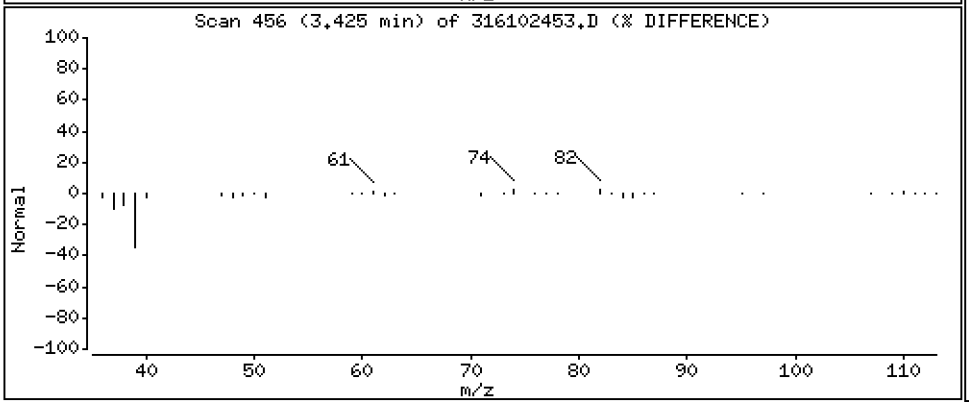












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 52

Date : 24-OCT-2016 23:25

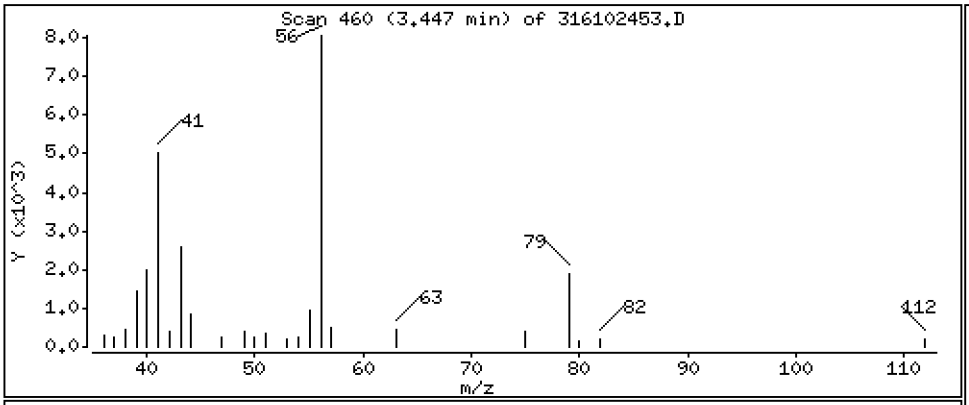
Client ID: Instrument: ms03.i

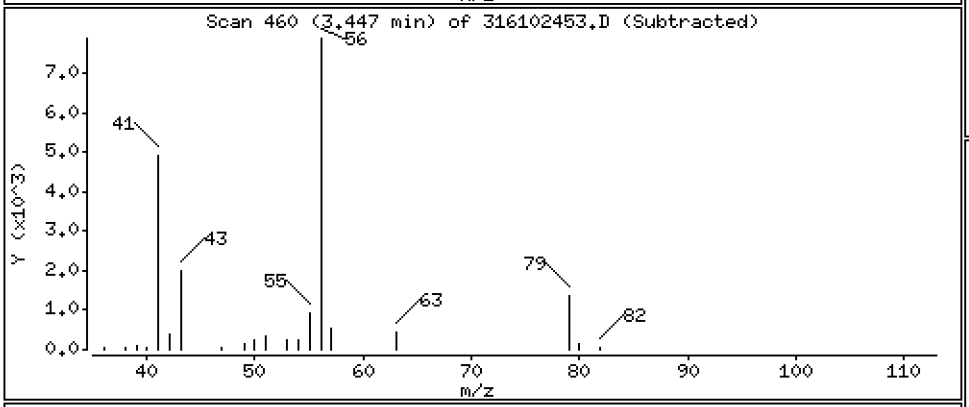
Sample Info: VSTD00.5;;1;1;8;;;

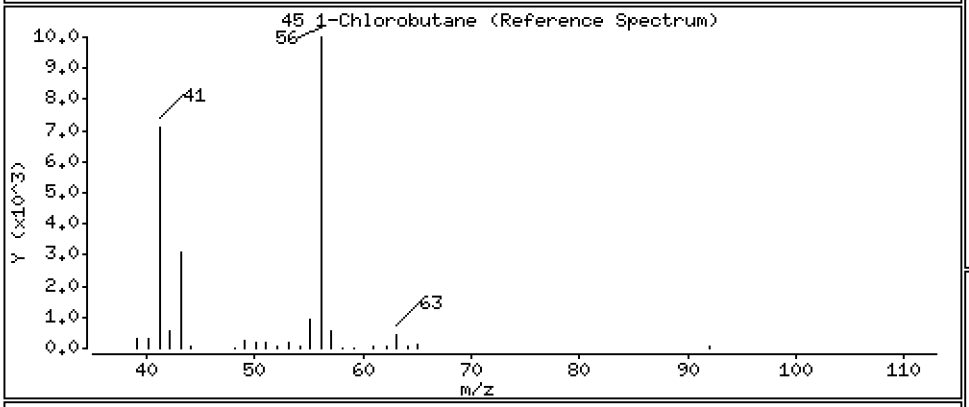
Purge Volume: 5.0 Operator: CJG

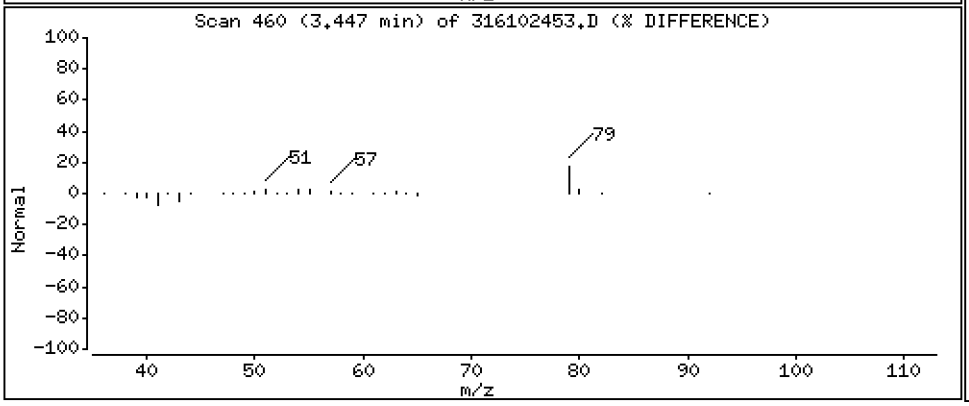
Column phase: DB-VRX Column diameter: 0.25

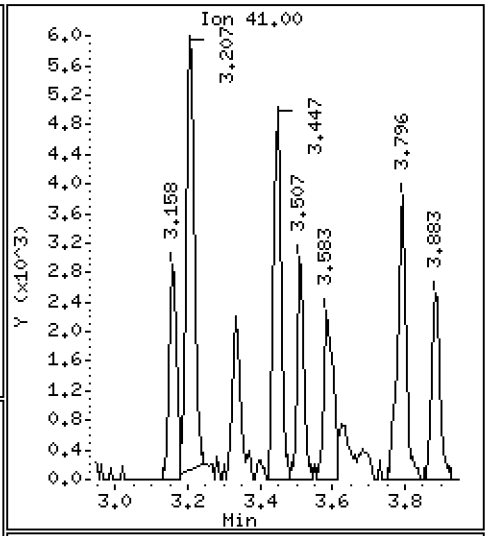
45 1-Chlorobutane Concentration: 0.711580 ug/L

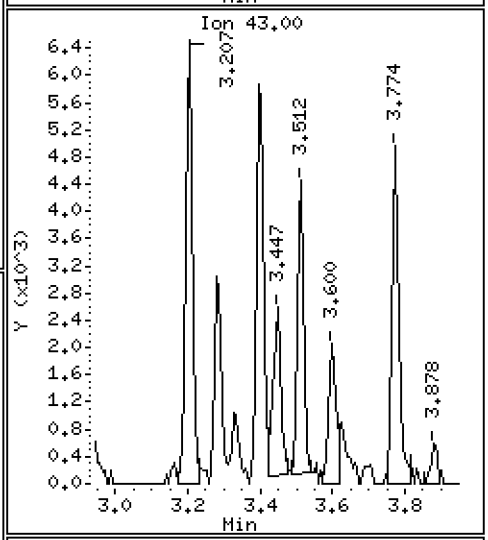


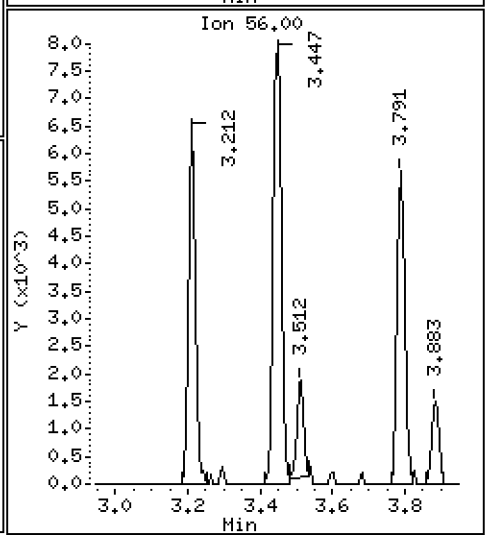












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 53

Date : 24-OCT-2016 23:25

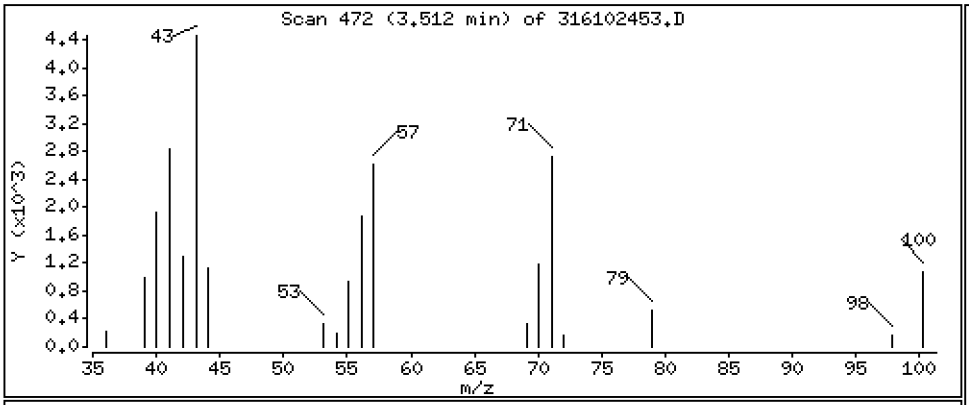
Client ID: Instrument: ms03.i

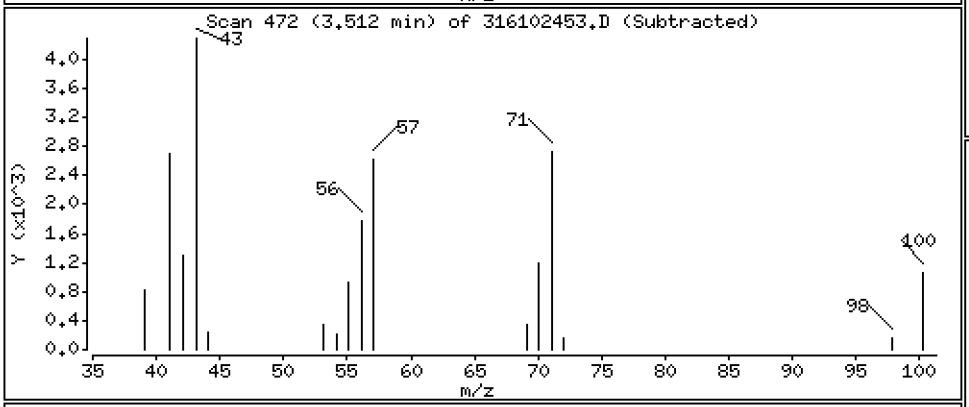
Sample Info: VSTD00.5;;1;1;8;;;

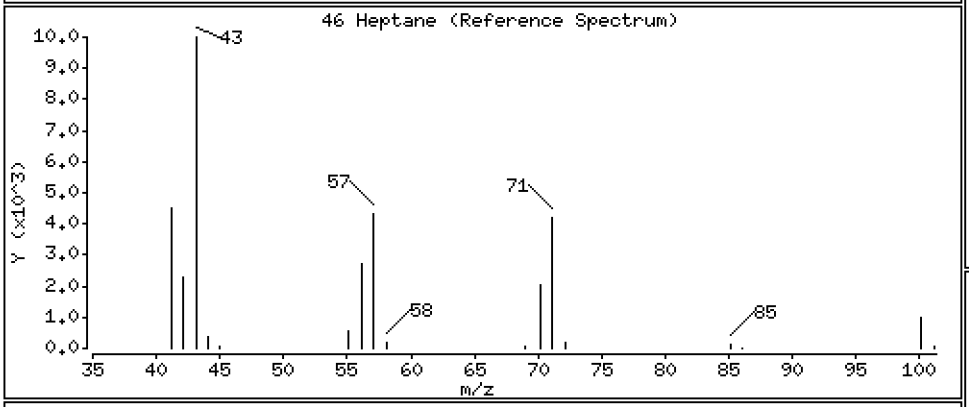
Purge Volume: 5.0 Operator: CJG

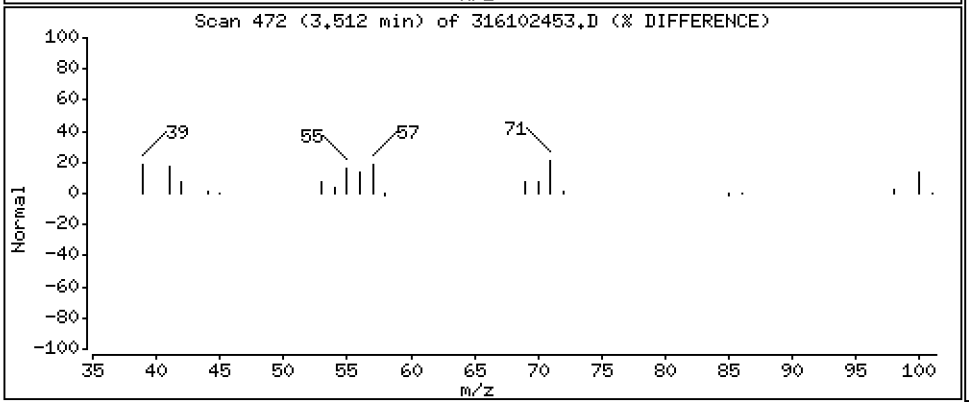
Column phase: DB-VRX Column diameter: 0.25

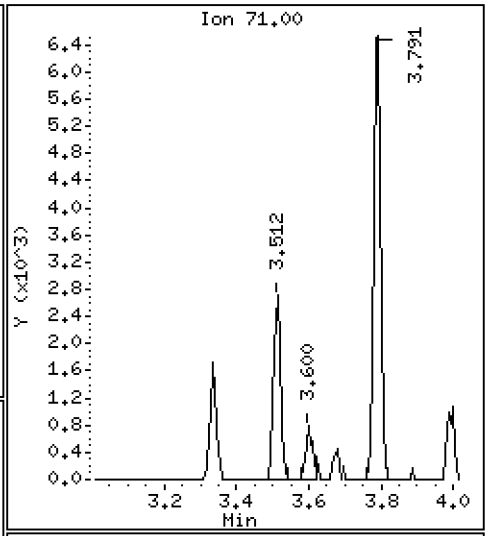
46 Heptane Concentration: 0.601876 ug/L

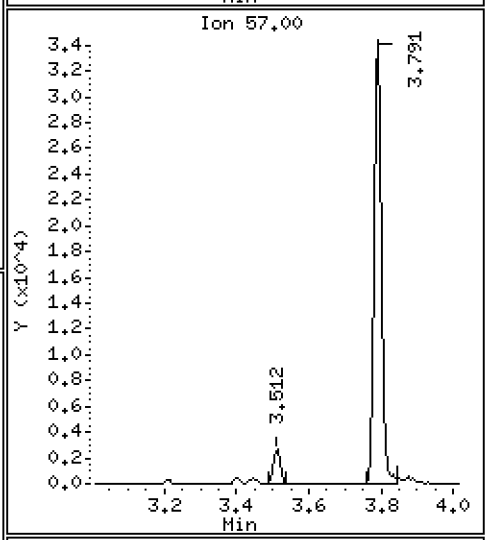


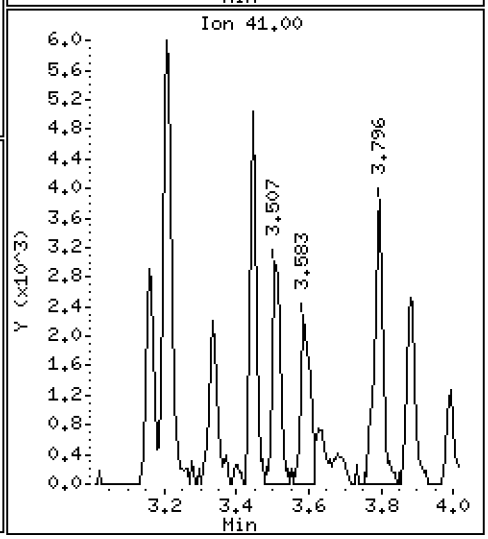












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 54

Date : 24-OCT-2016 23:25

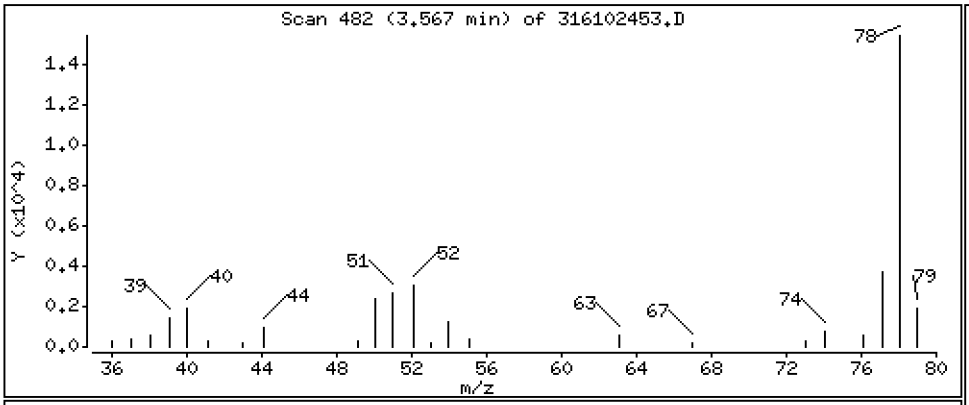
Client ID: Instrument: ms03.i

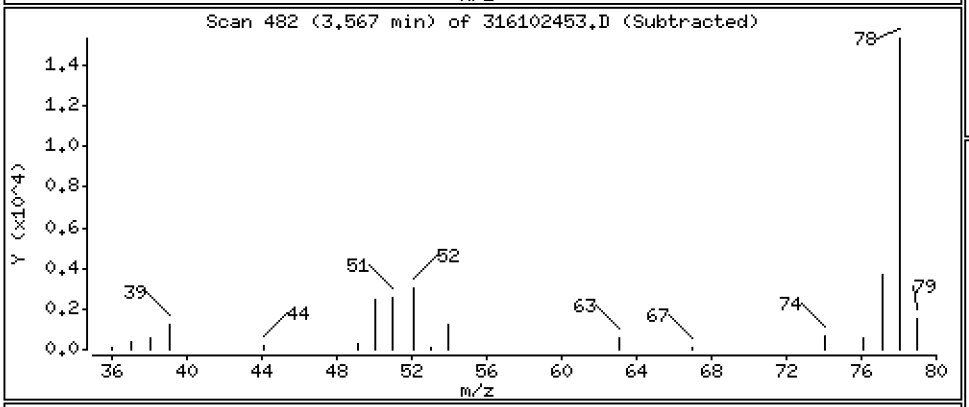
Sample Info: VSTD00.5;;1;1;8;;;

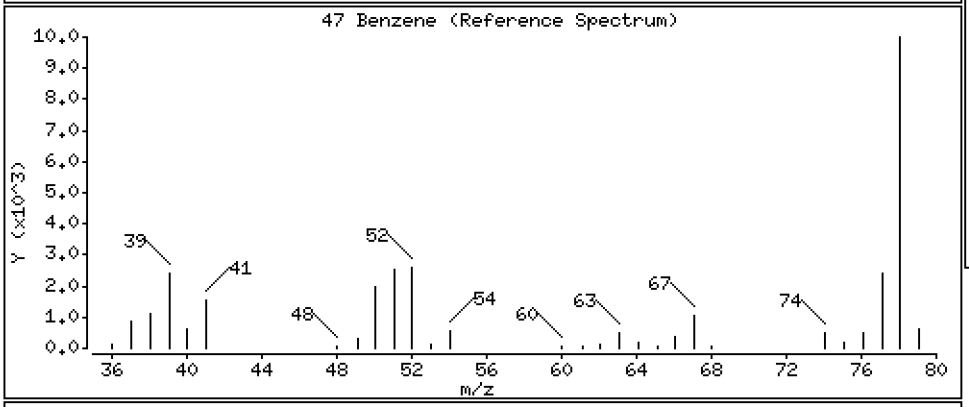
Purge Volume: 5.0 Operator: CJG

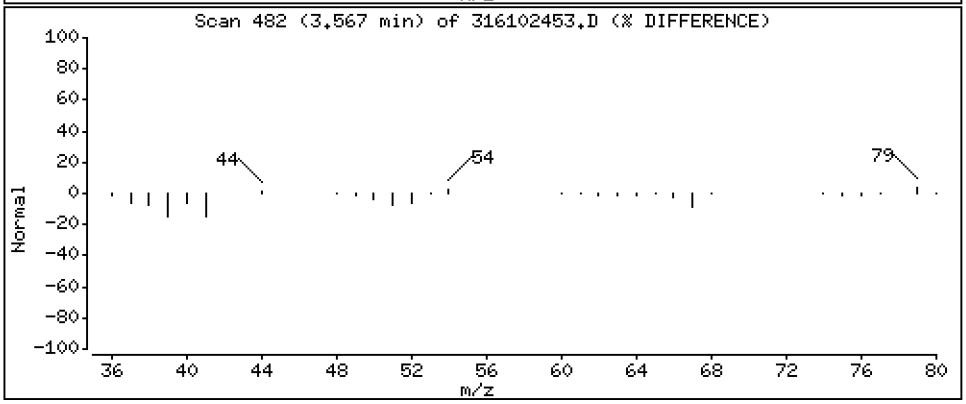
Column phase: DB-VRX Column diameter: 0.25

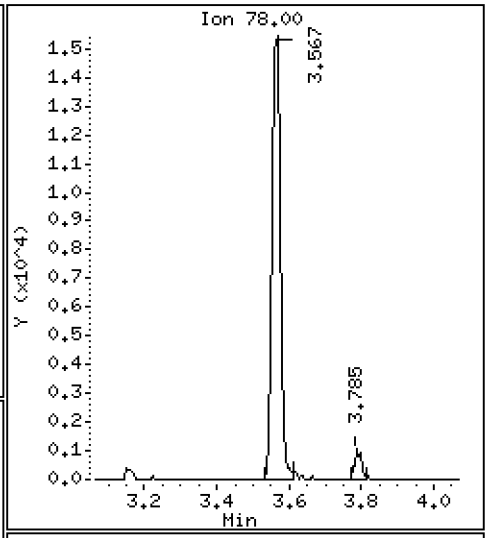
47 Benzene Concentration: 0.616890 ug/L

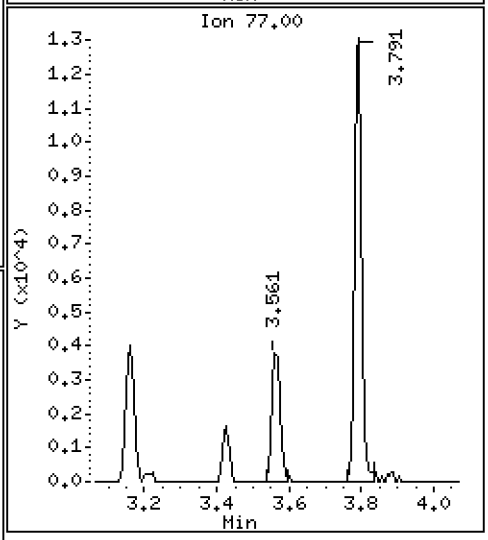












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 55

Date : 24-OCT-2016 23:25

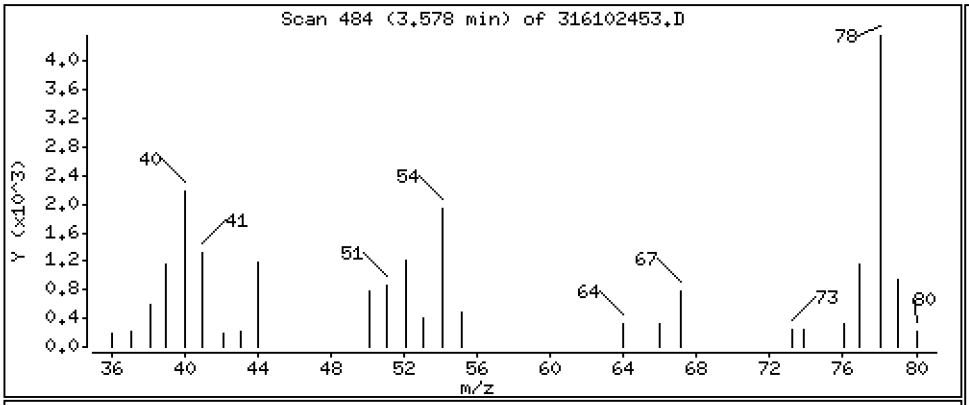
Client ID: Instrument: ms03.i

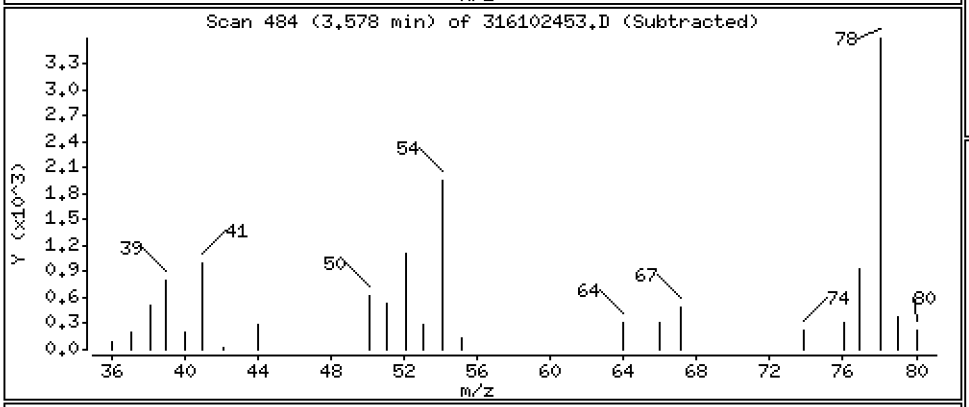
Sample Info: VSTD00.5;;1;1;8;;;

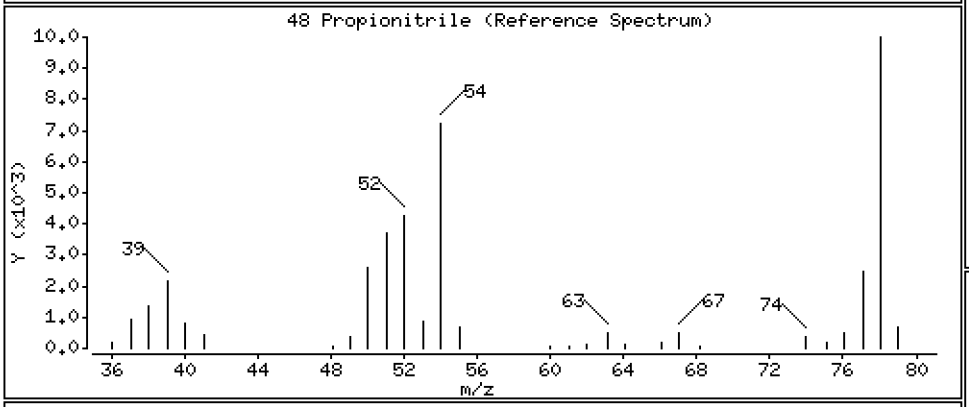
Purge Volume: 5.0 Operator: CJG

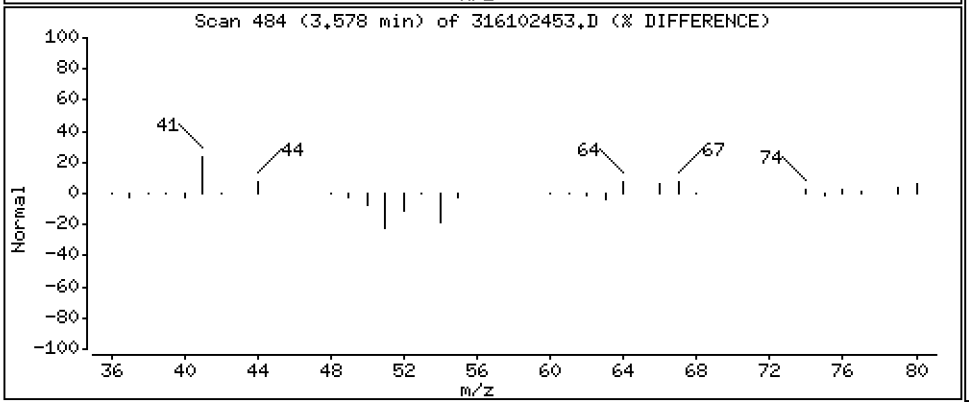
Column phase: DB-VRX Column diameter: 0.25

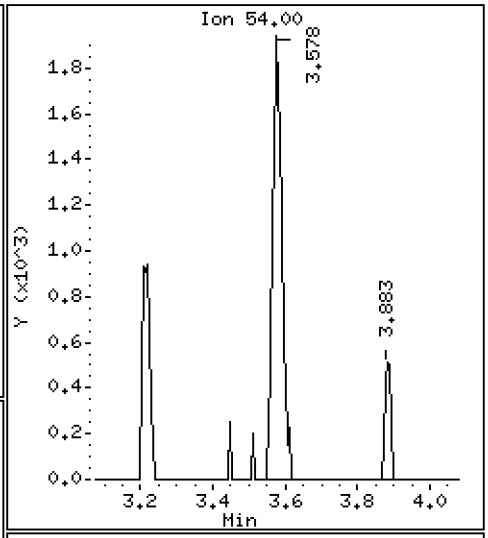
48 Propionitrile Concentration: 2.89972 ug/L

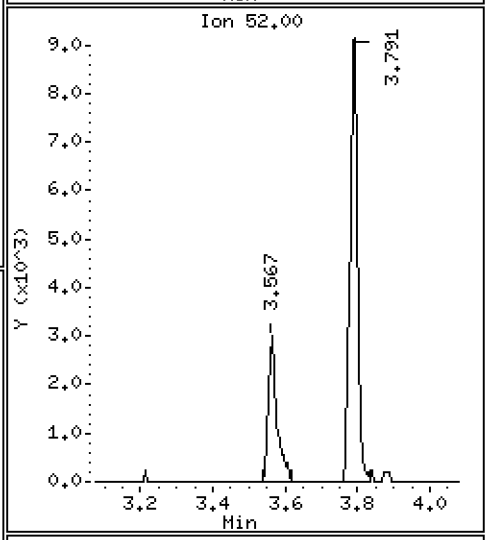


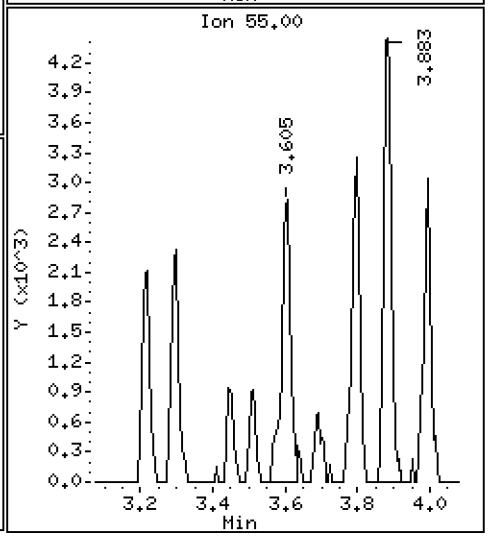












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 56

Date : 24-OCT-2016 23:25

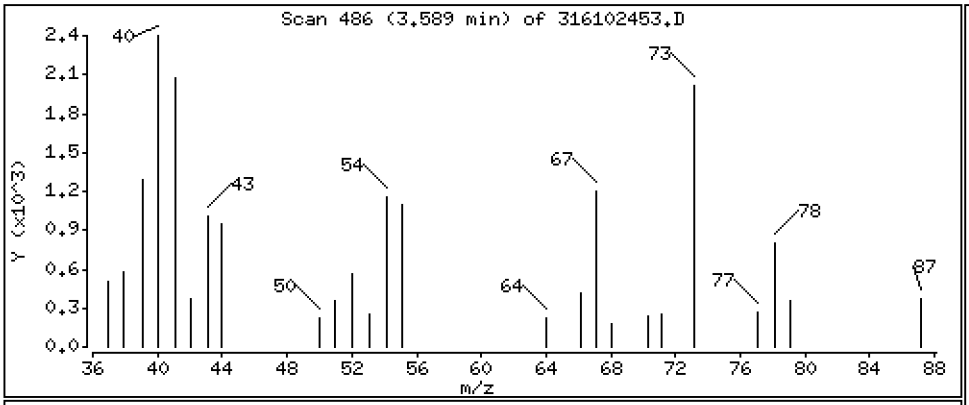
Client ID: Instrument: ms03.i

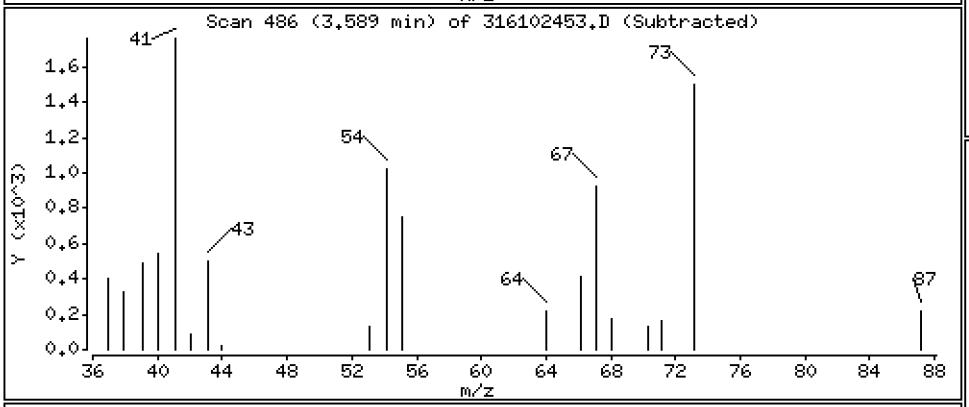
Sample Info: VSTD00.5;;1;1;8;;;

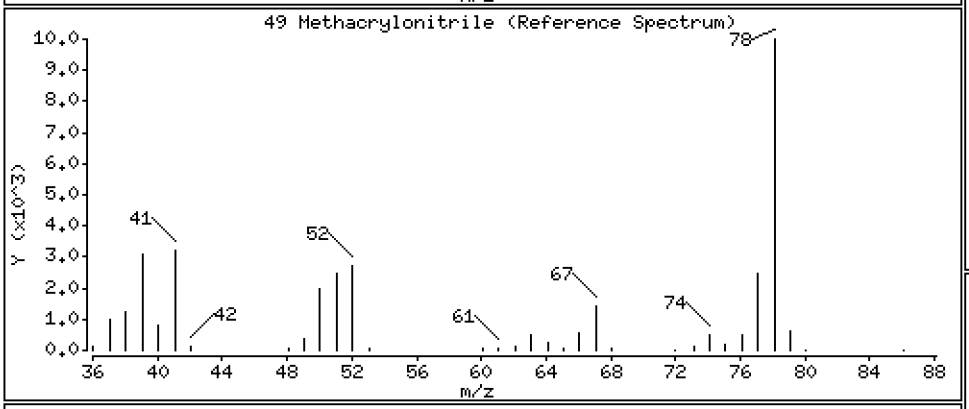
Purge Volume: 5.0 Operator: CJG

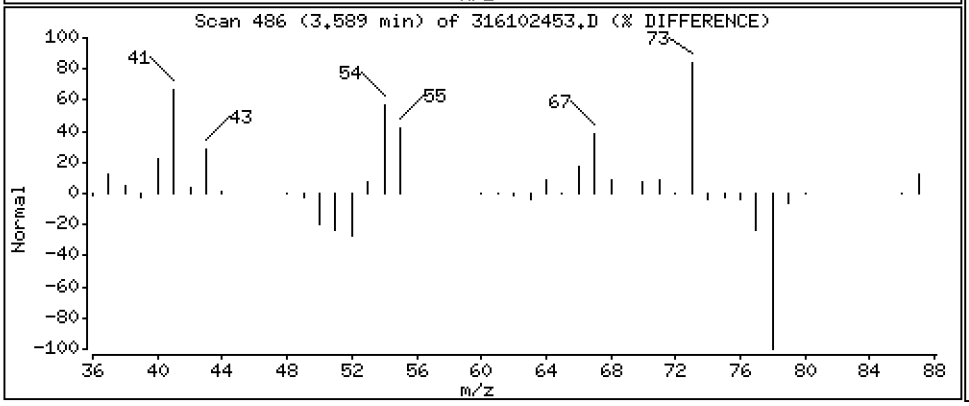
Column phase: DB-VRX Column diameter: 0.25

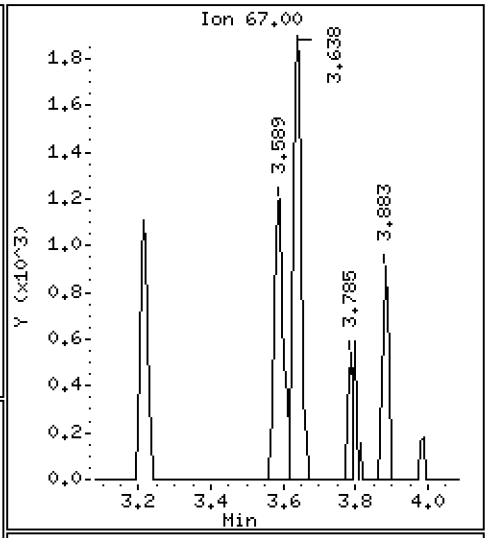
49 Methacrylonitrile Concentration: 0.602522 ug/L

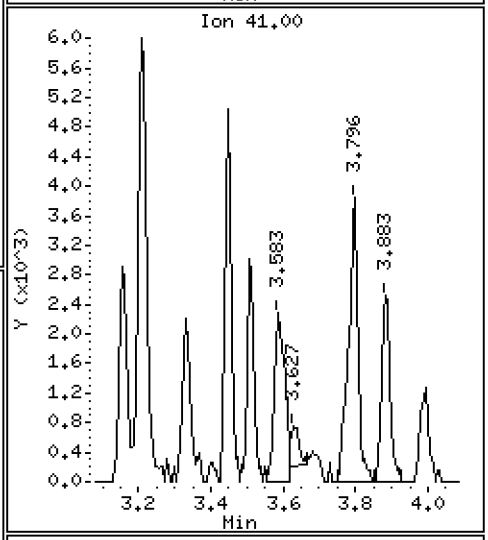


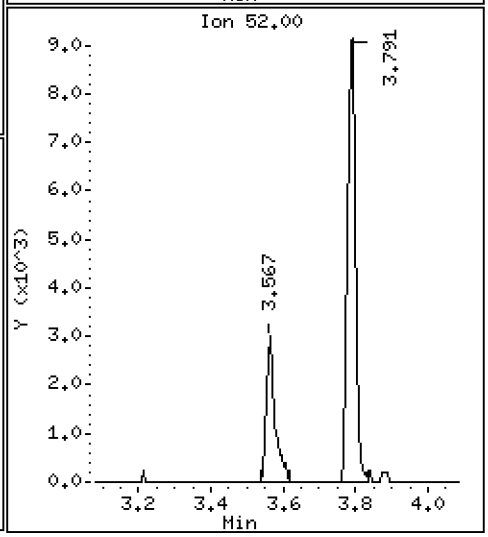












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 57

Date : 24-OCT-2016 23:25

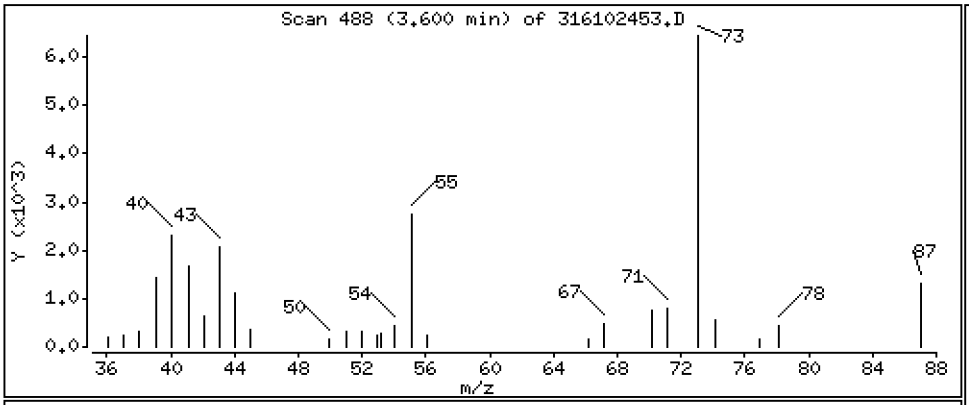
Client ID: Instrument: ms03.i

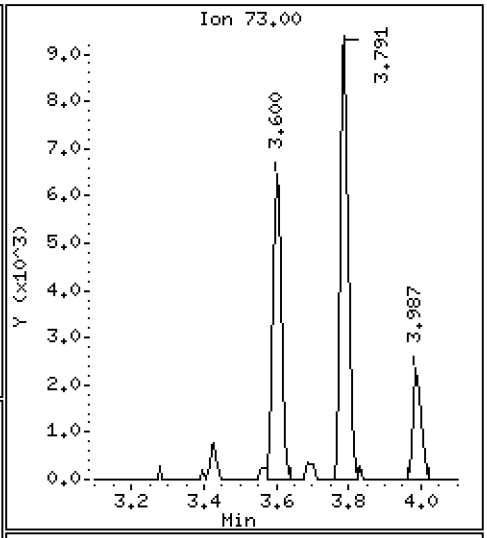
Sample Info: VSTD00.5;;1;1;8;;;

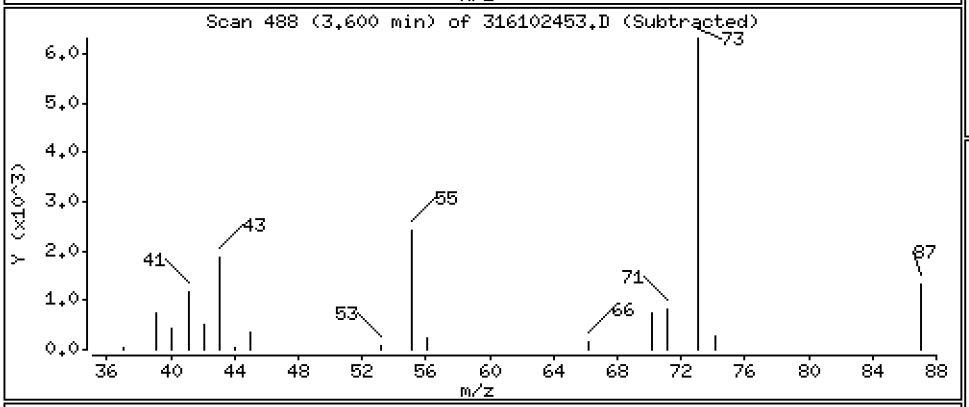
Purge Volume: 5.0 Operator: CJG

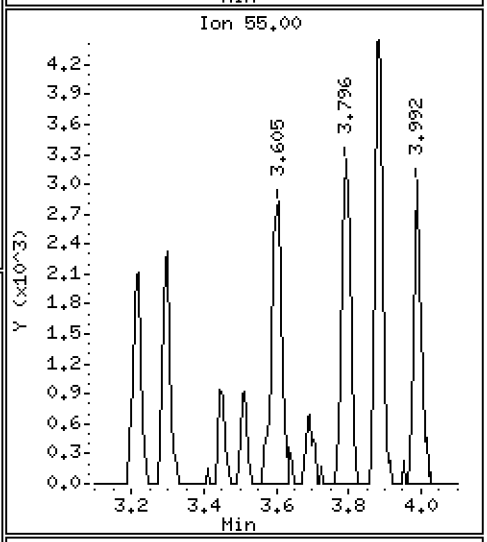
Column phase: DB-VRX Column diameter: 0.25

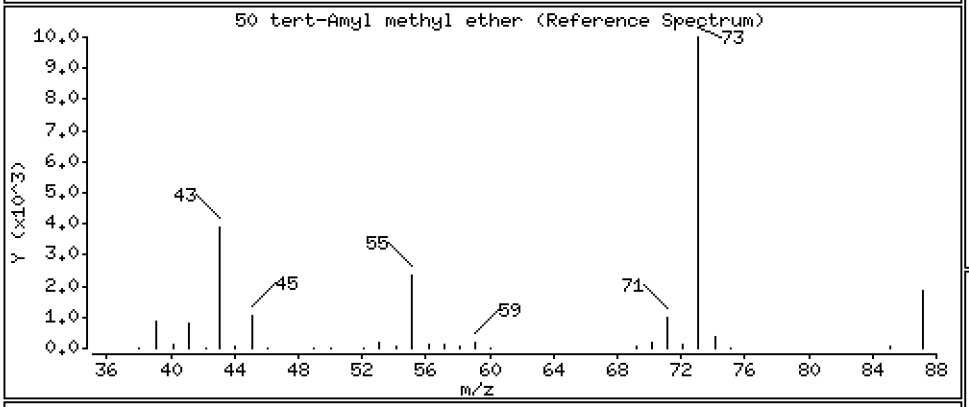
50 tert-Amyl methyl ether Concentration: 0.487597 ug/L

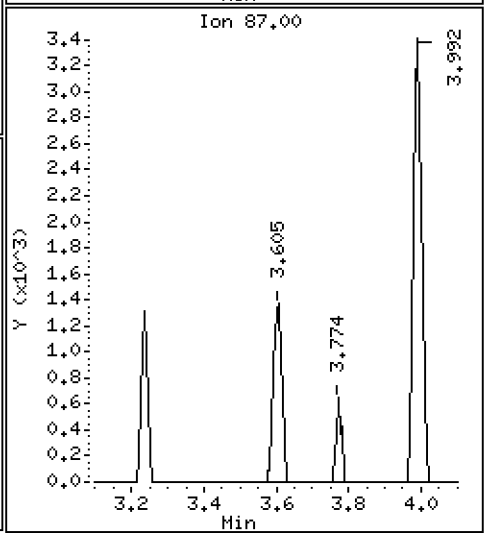


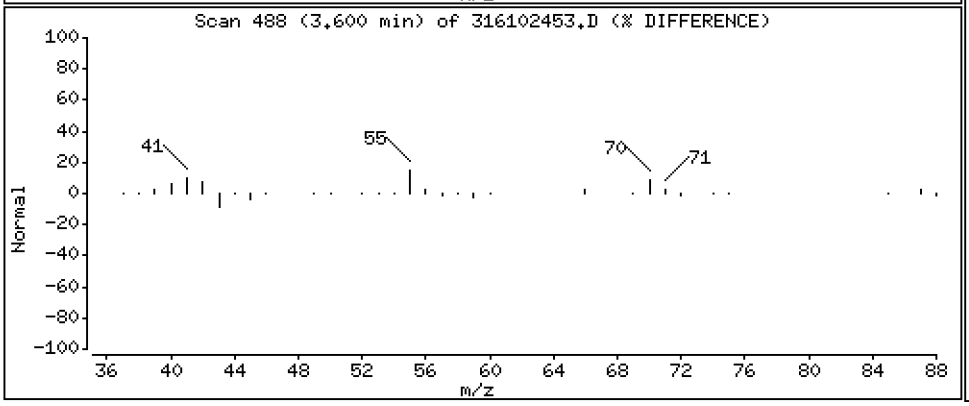












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 58

Date : 24-OCT-2016 23:25

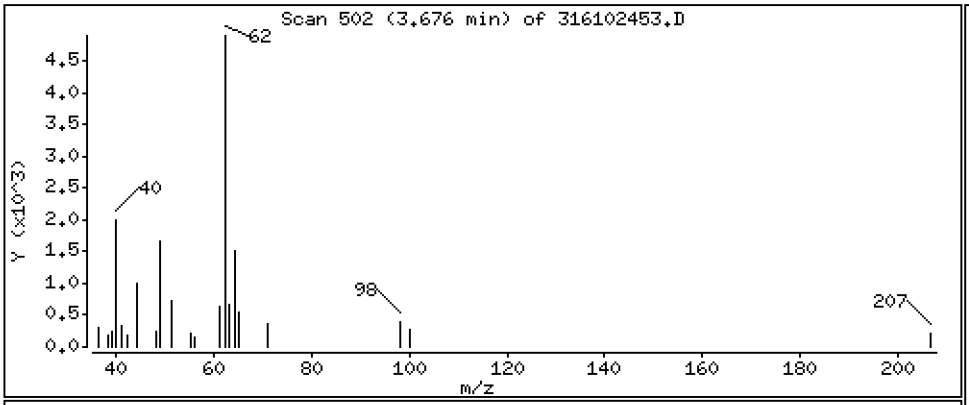
Client ID: Instrument: ms03.i

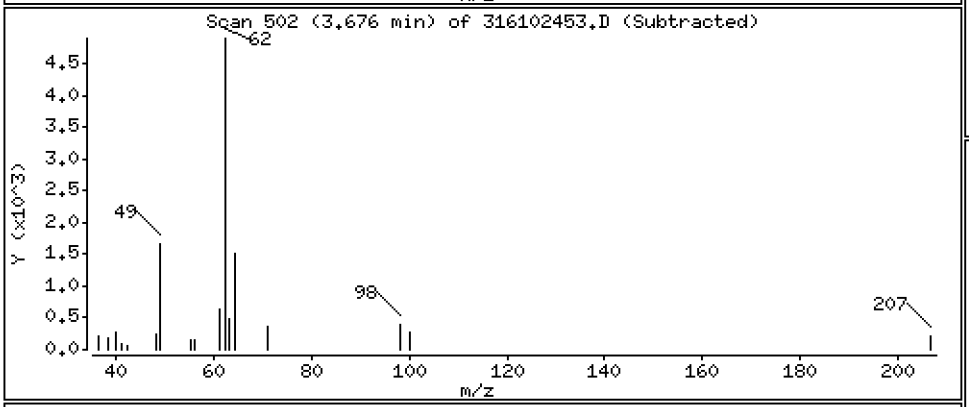
Sample Info: VSTD00.5;;1;1;8;;;

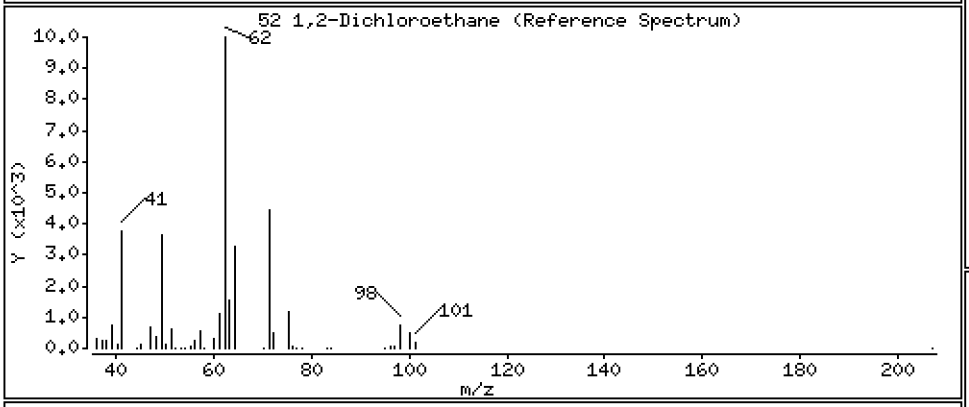
Purge Volume: 5.0 Operator: CJG

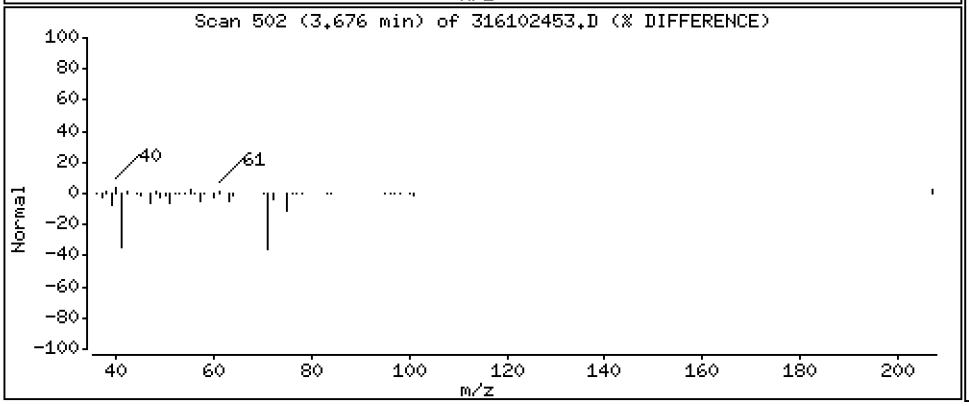
Column phase: DB-VRX Column diameter: 0.25

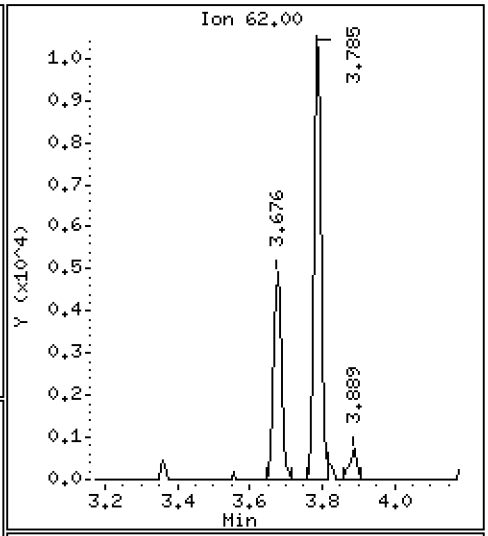
52 1,2-Dichloroethane Concentration: 0.621644 ug/L

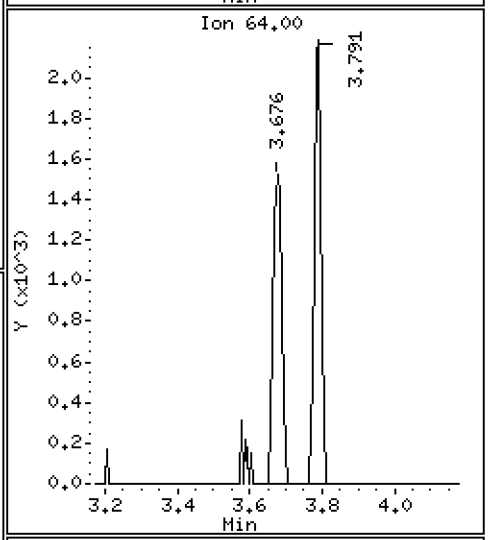


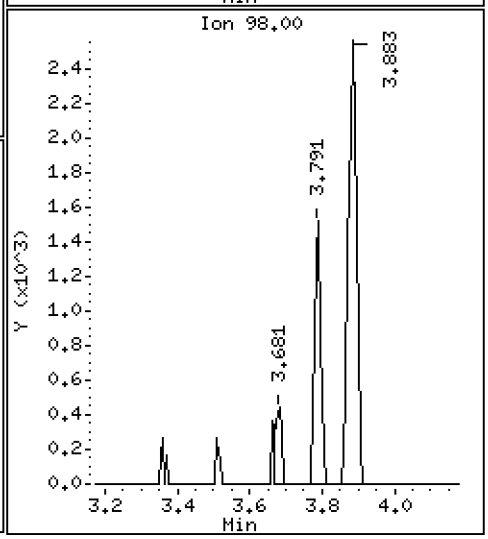












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 59

Date : 24-OCT-2016 23:25

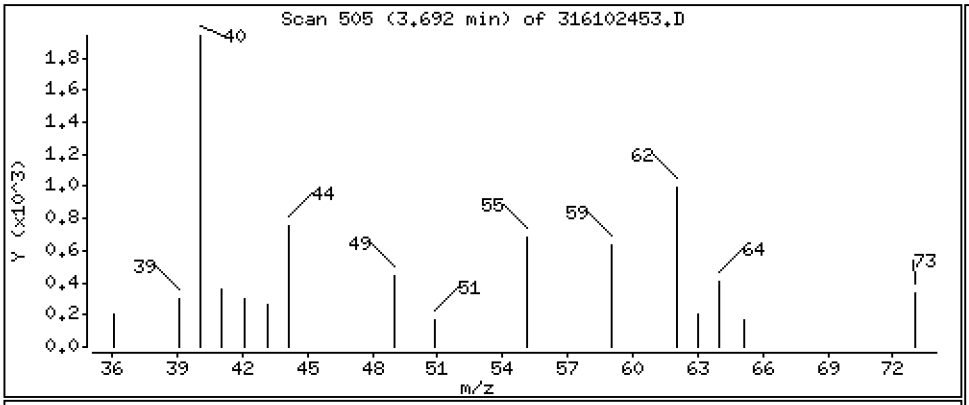
Client ID: Instrument: ms03.i

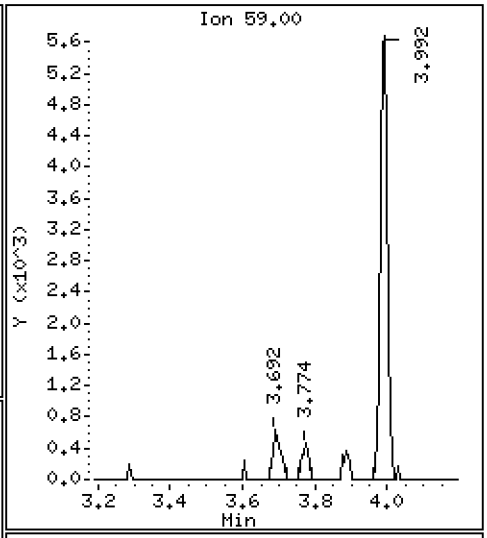
Sample Info: VSTD00.5;;1;1;8;;;

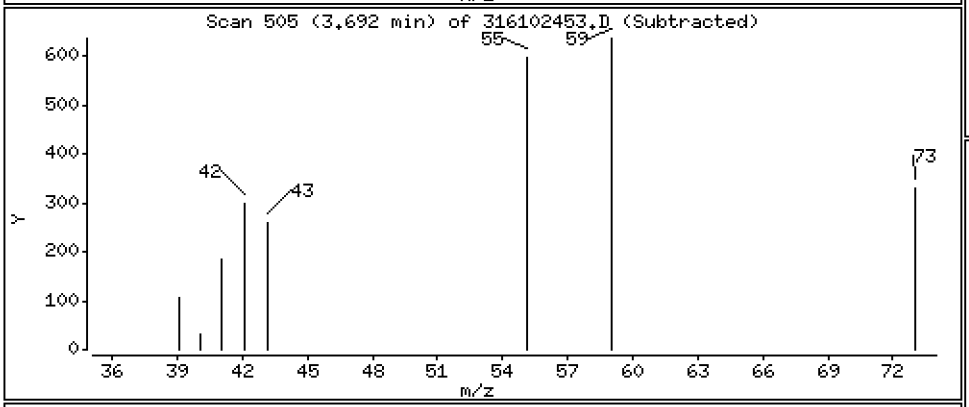
Purge Volume: 5.0 Operator: CJG

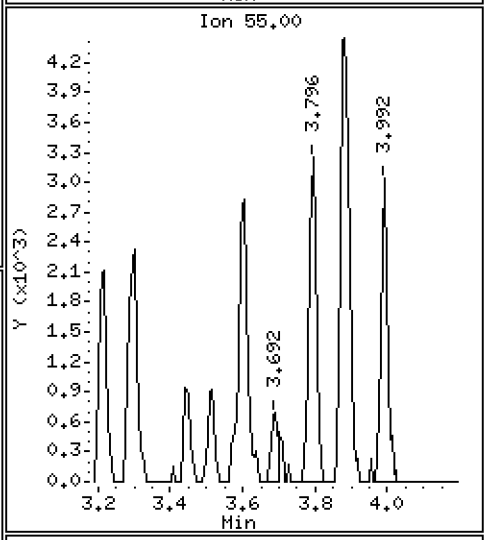
Column phase: DB-VRX Column diameter: 0.25

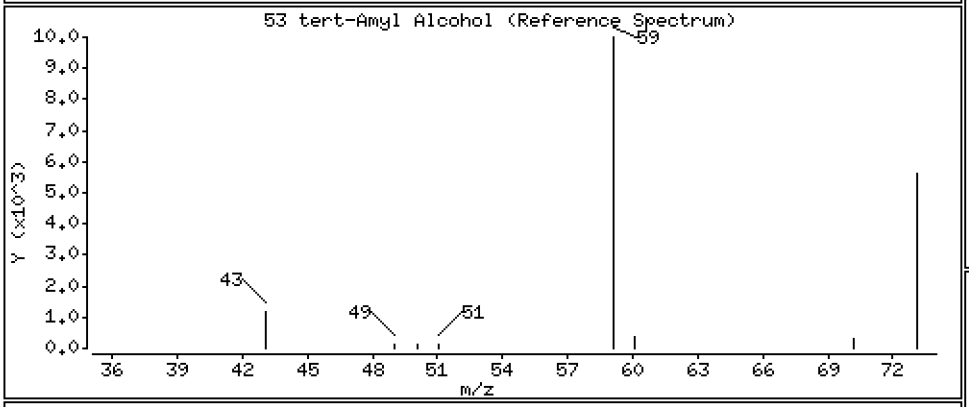
53 tert-Amyl Alcohol Concentration: 2.25178 ug/L

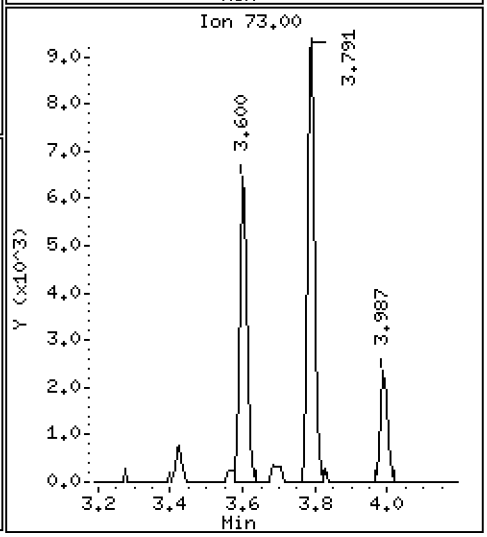


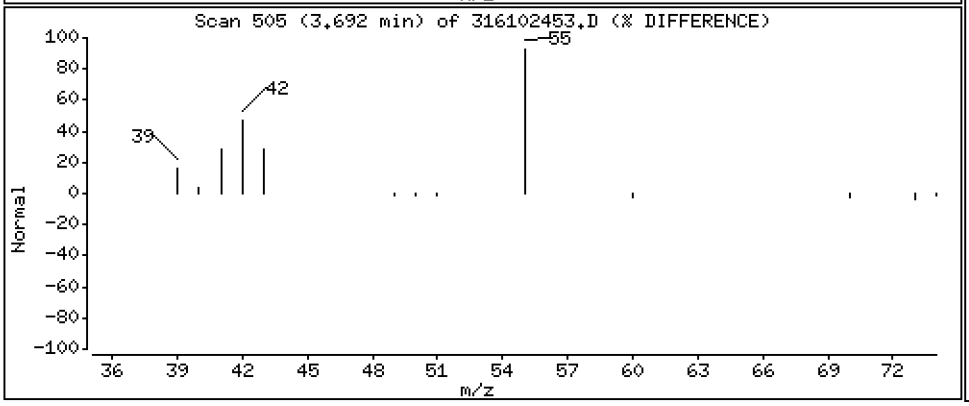












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 60

Date : 24-OCT-2016 23:25

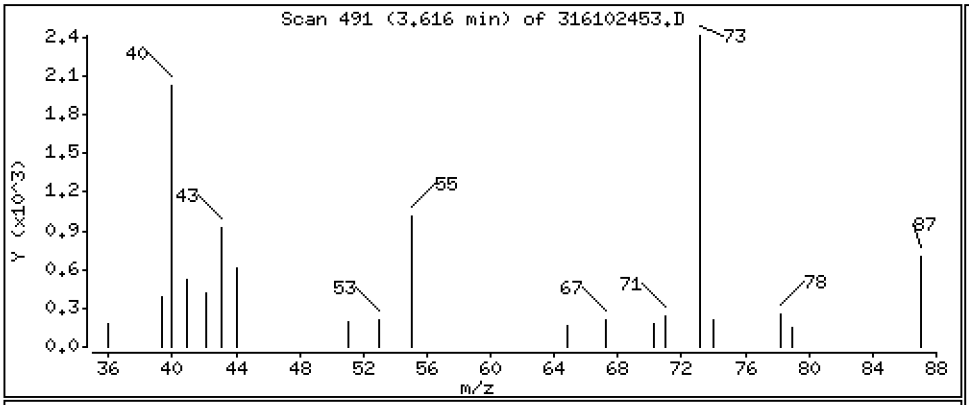
Client ID: Instrument: ms03.i

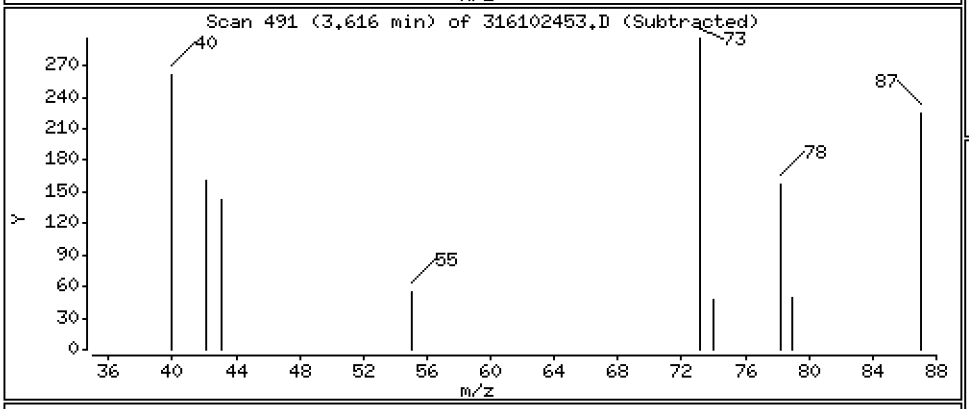
Sample Info: VSTD00.5;;1;1;8;;;

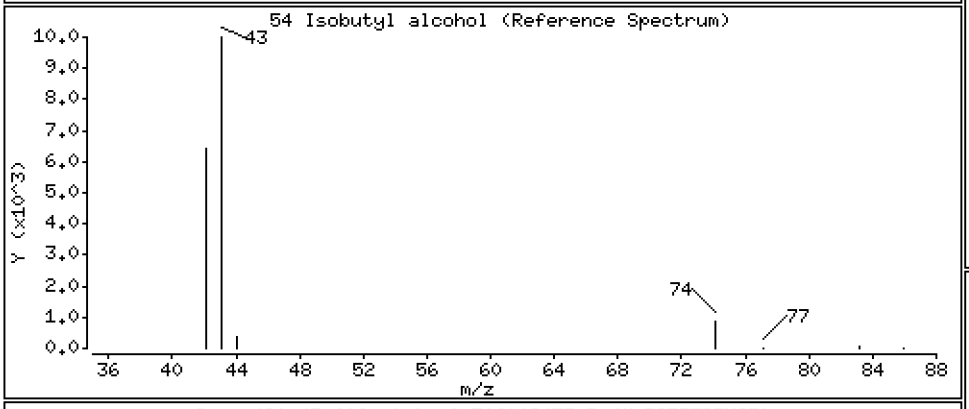
Purge Volume: 5.0 Operator: CJG

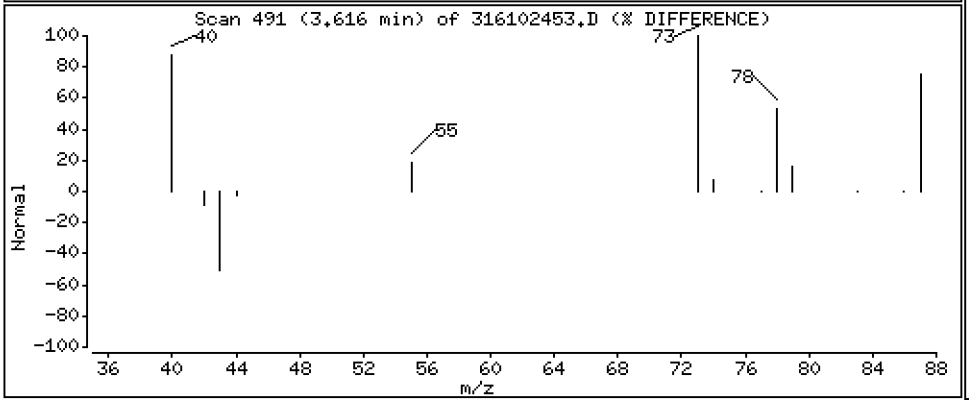
Column phase: DB-VRX Column diameter: 0.25

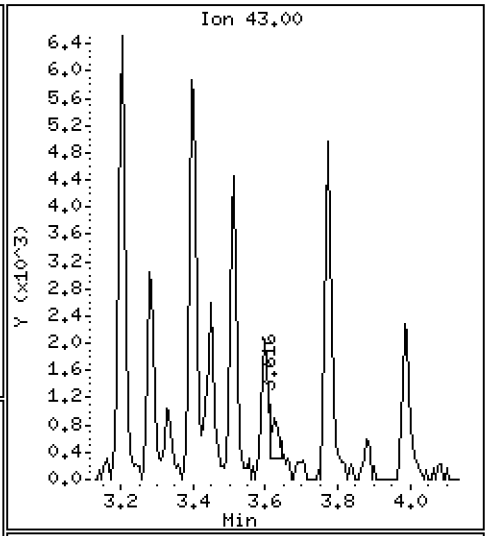
54 Isobutyl alcohol Concentration: 4.90820 ug/L

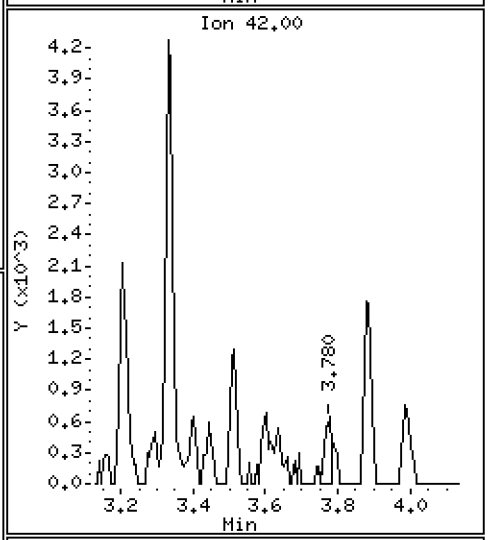


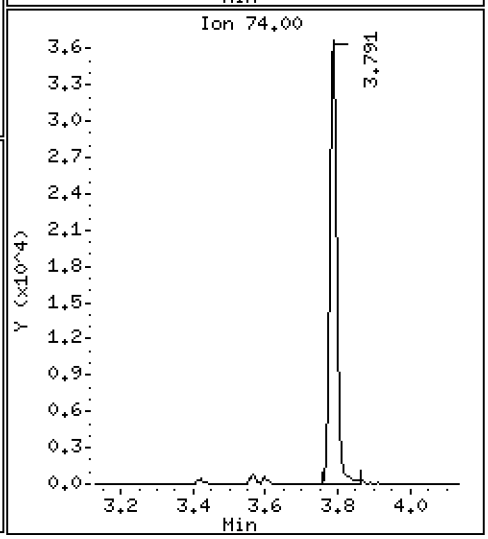












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 61

Date : 24-OCT-2016 23:25

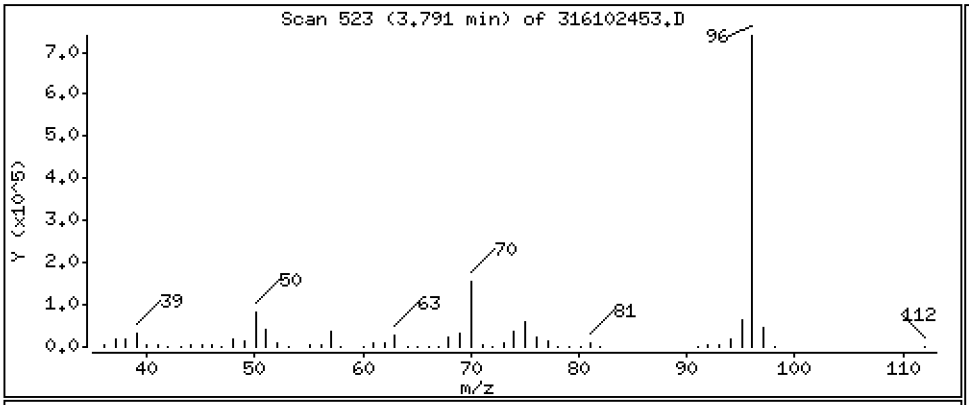
Client ID: Instrument: ms03.i

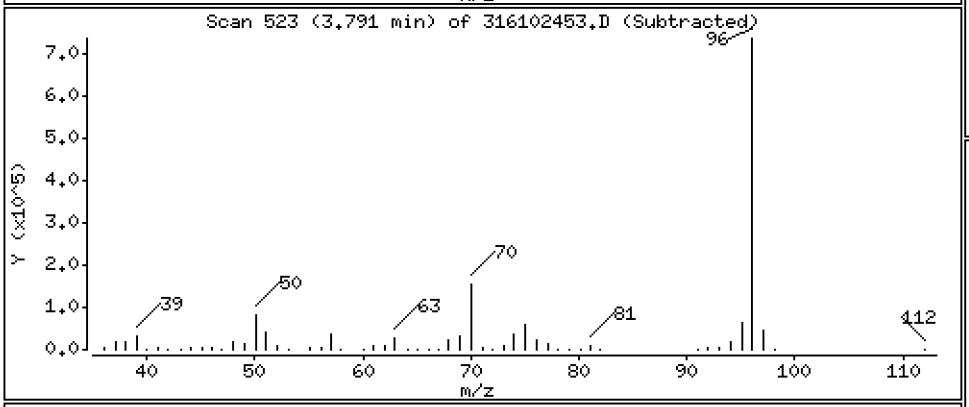
Sample Info: VSTD00.5;;1;1;8;;;

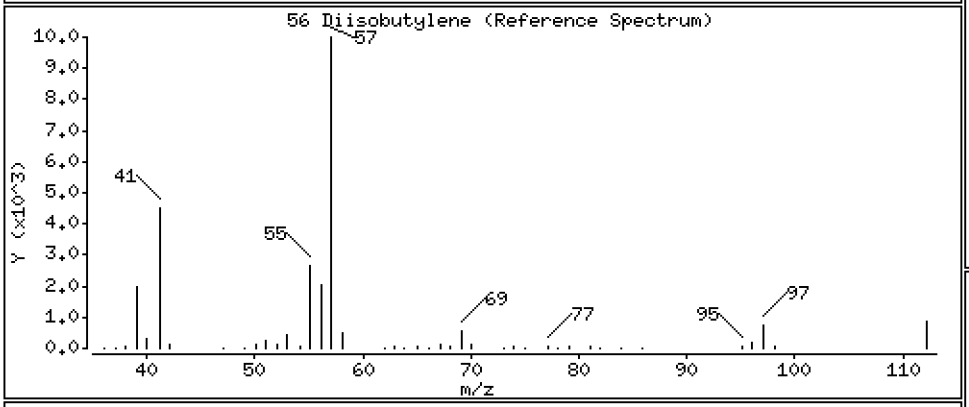
Purge Volume: 5.0 Operator: CJG

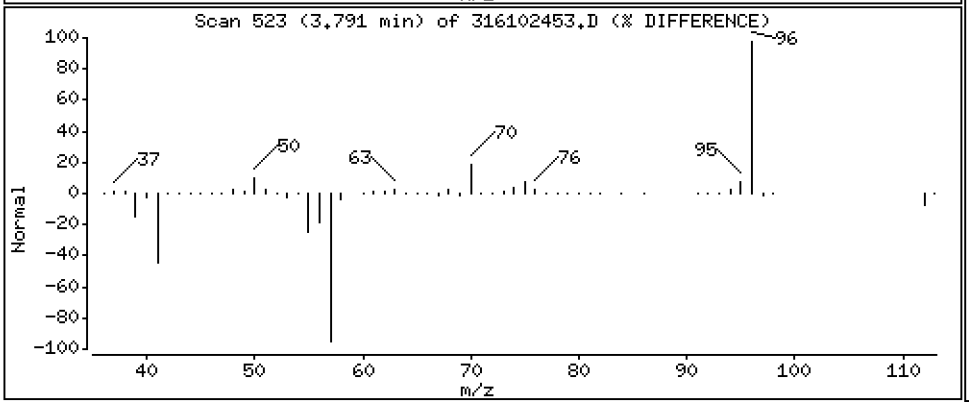
Column phase: DB-VRX Column diameter: 0.25

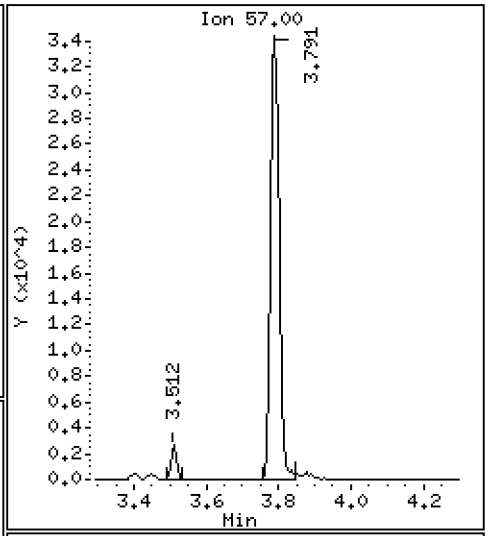
56 Diisobutylene Concentration: 2.40763 ug/L

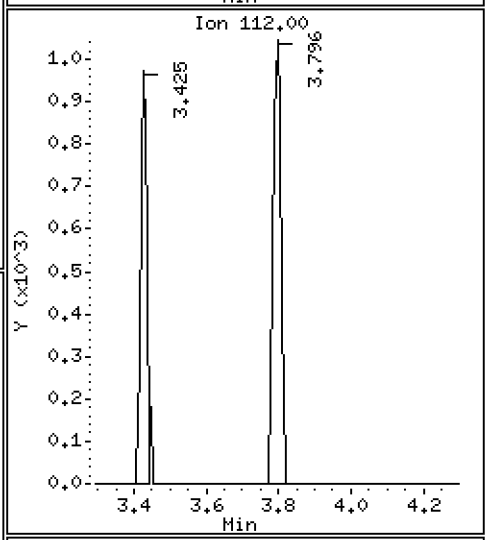


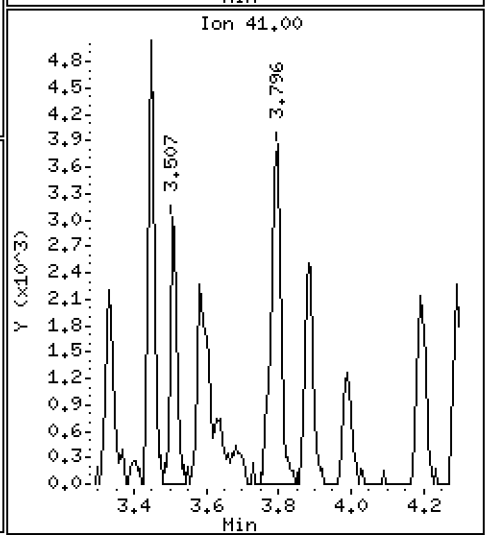












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 62

Date : 24-OCT-2016 23:25

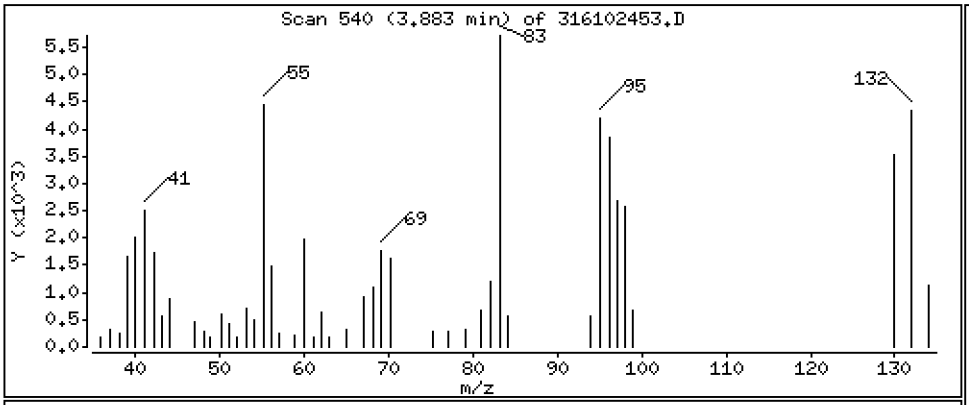
Client ID: Instrument: ms03.i

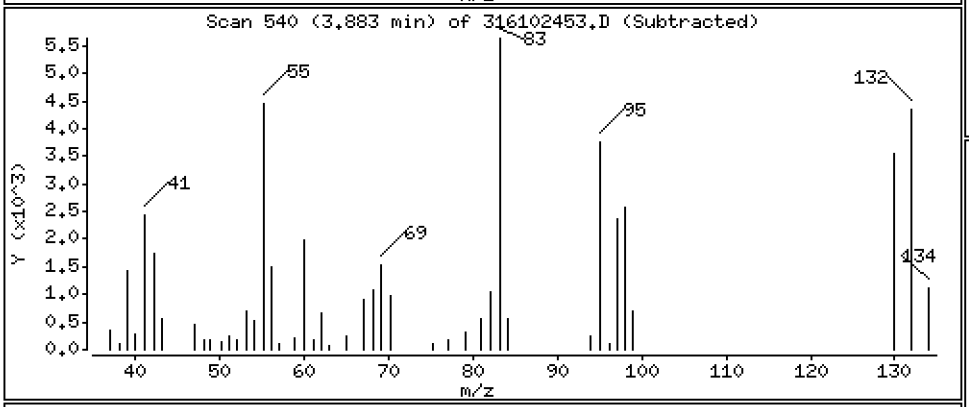
Sample Info: VSTD00.5;;1;1;8;;;

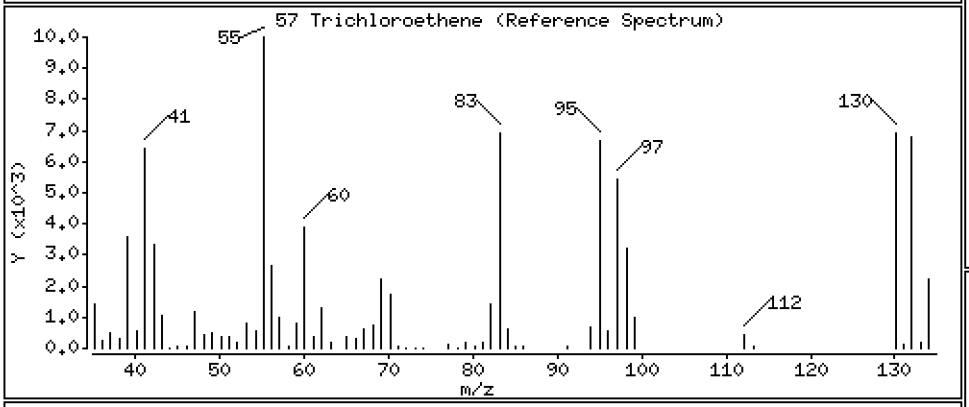
Purge Volume: 5.0 Operator: CJG

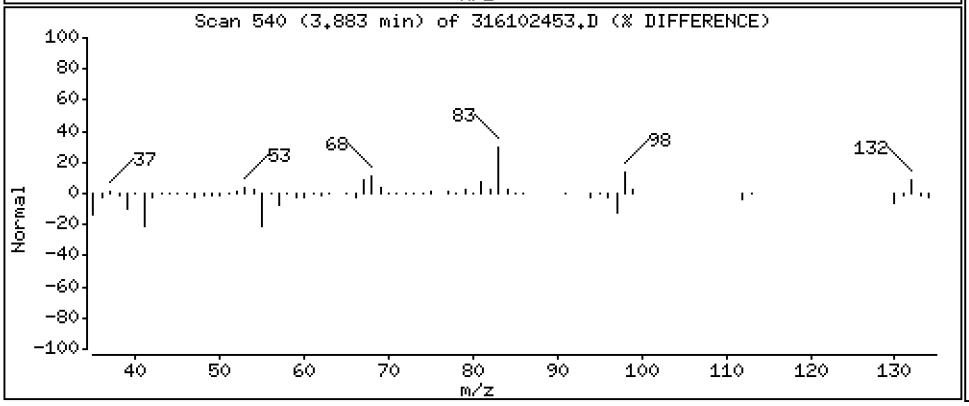
Column phase: DB-VRX Column diameter: 0.25

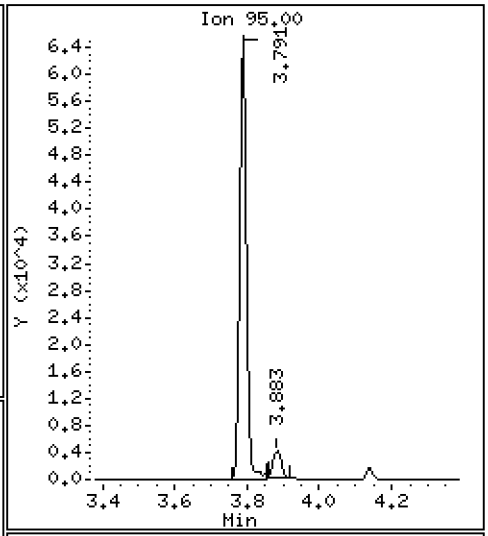
57 Trichloroethene Concentration: 0.735563 ug/L

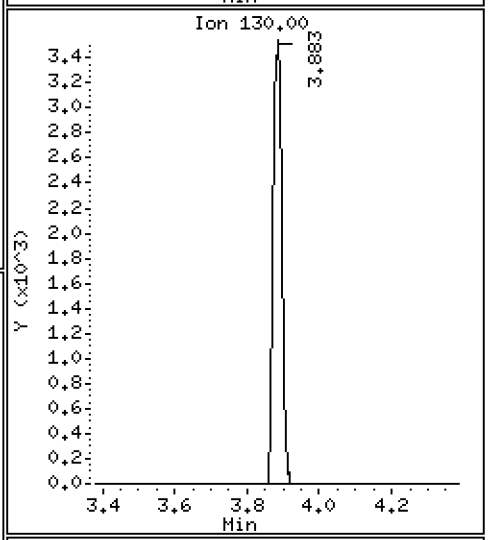


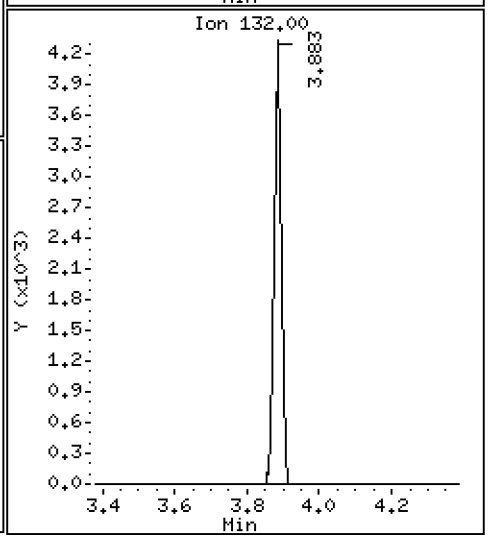












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 63

Date : 24-OCT-2016 23:25

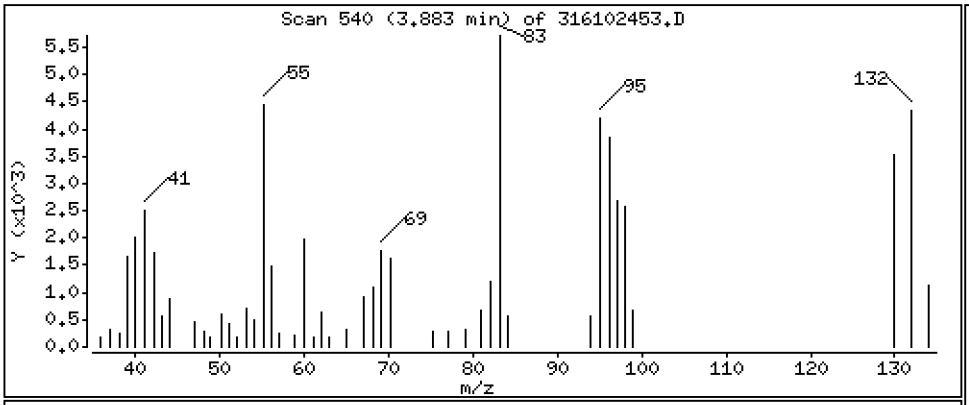
Client ID: Instrument: ms03.i

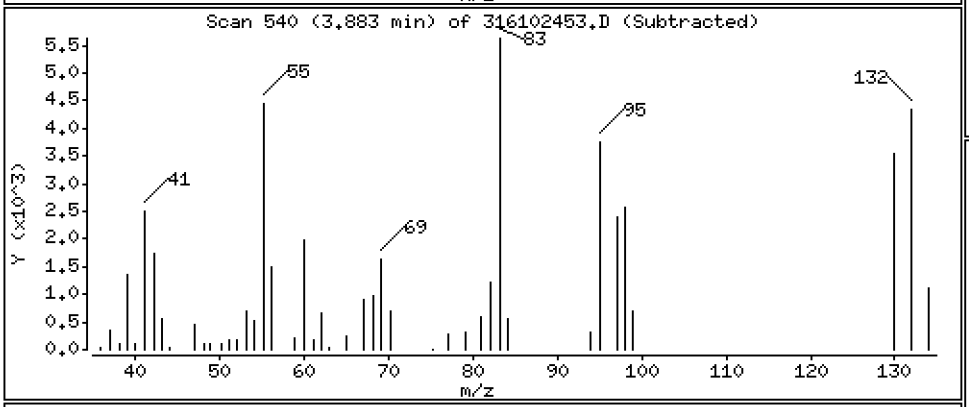
Sample Info: VSTD00.5;;1;1;8;;;

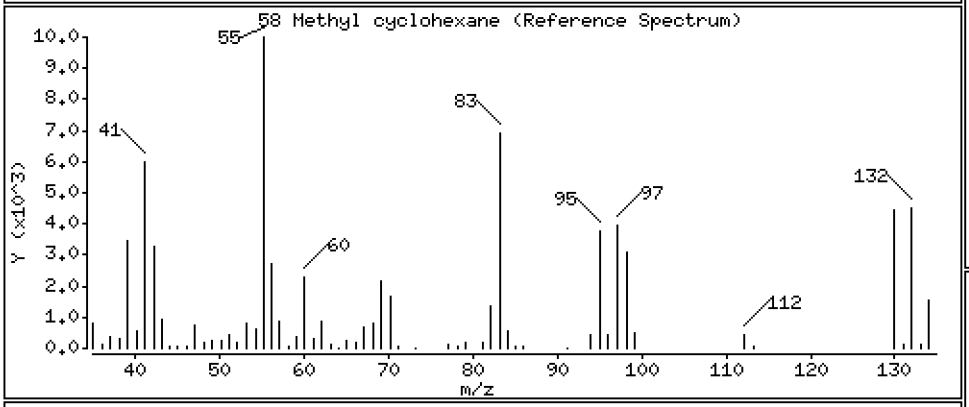
Purge Volume: 5.0 Operator: CJG

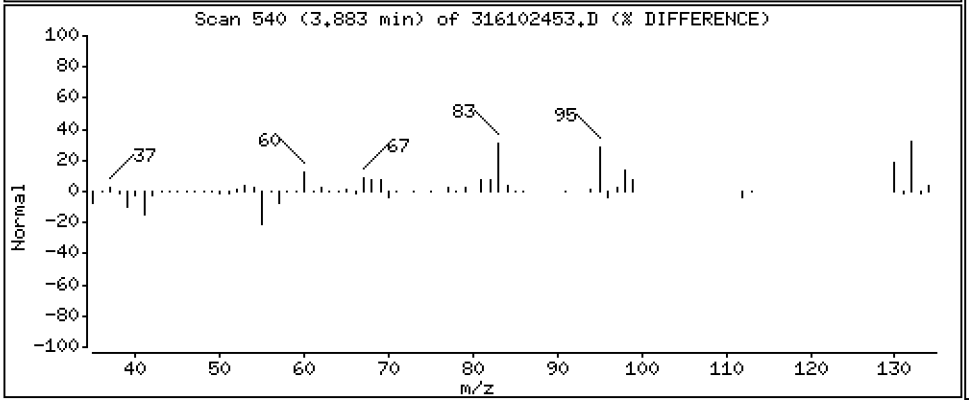
Column phase: DB-VRX Column diameter: 0.25

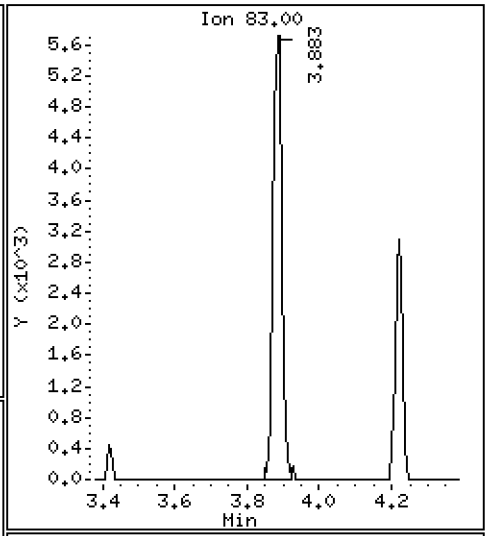
58 Methyl cyclohexane Concentration: 0.757728 ug/L

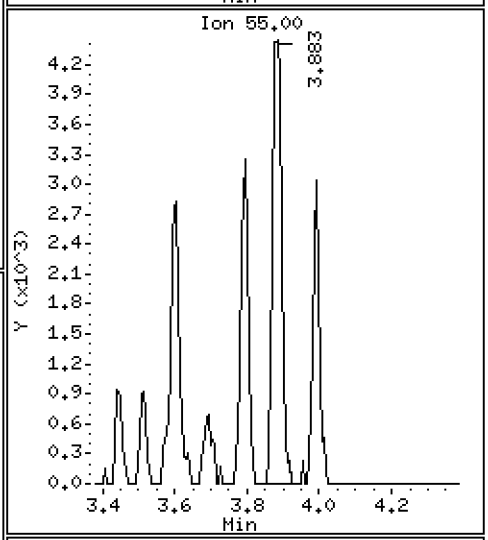


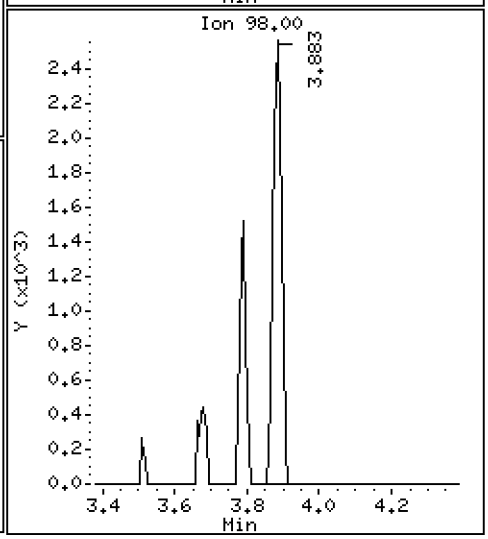












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 64

Date : 24-OCT-2016 23:25

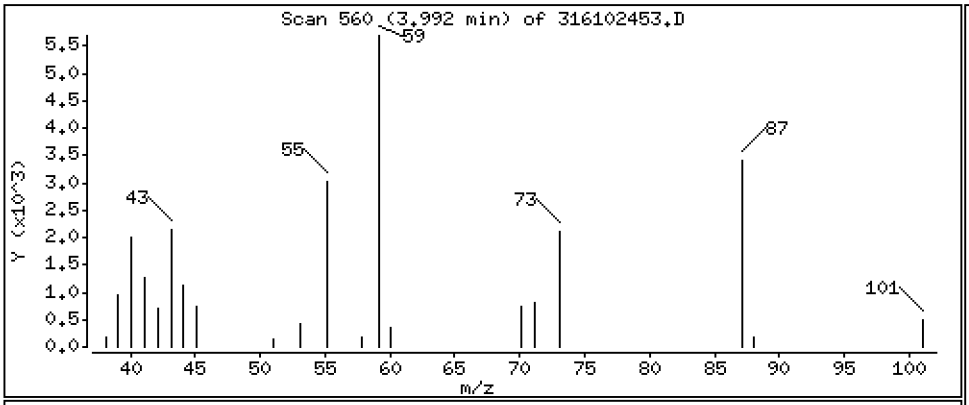
Client ID: Instrument: ms03.i

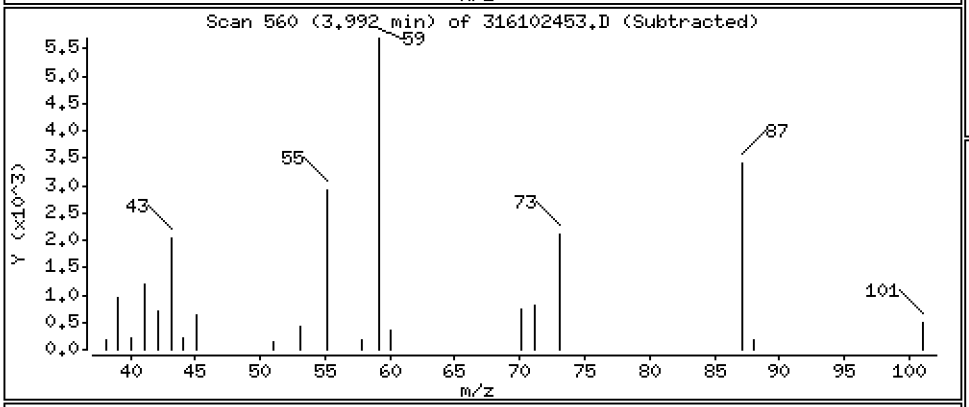
Sample Info: VSTD00.5;;1;1;8;;;

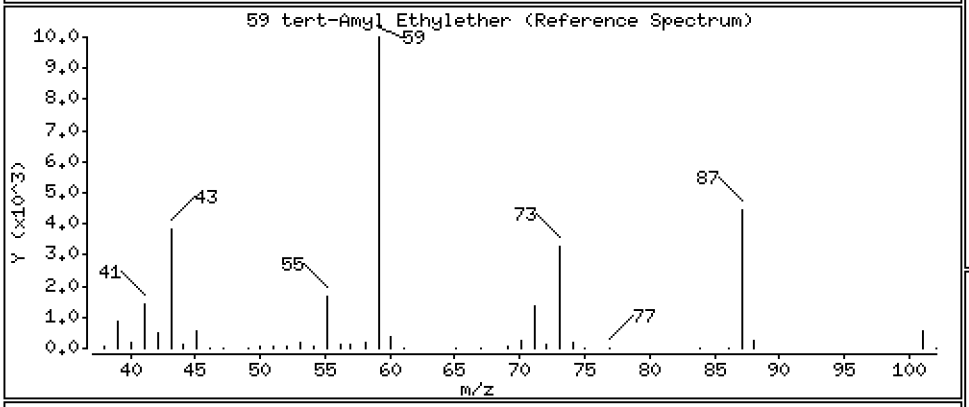
Purge Volume: 5.0 Operator: CJG

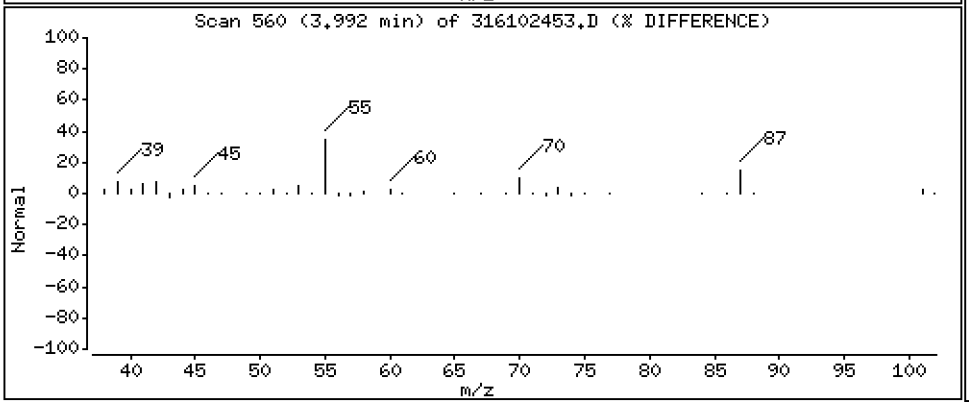
Column phase: DB-VRX Column diameter: 0.25

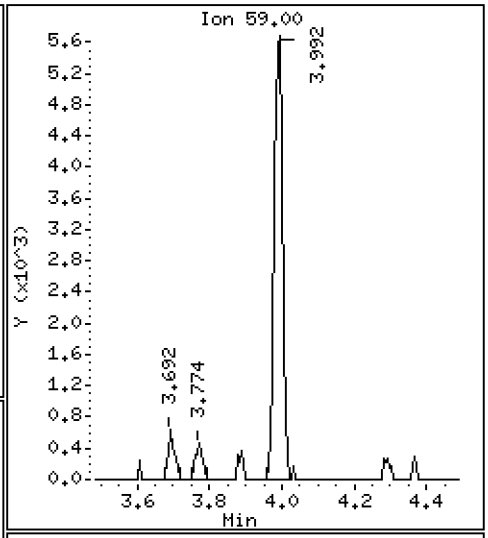
59 tert-Amyl Ethylether Concentration: 0.458850 ug/L

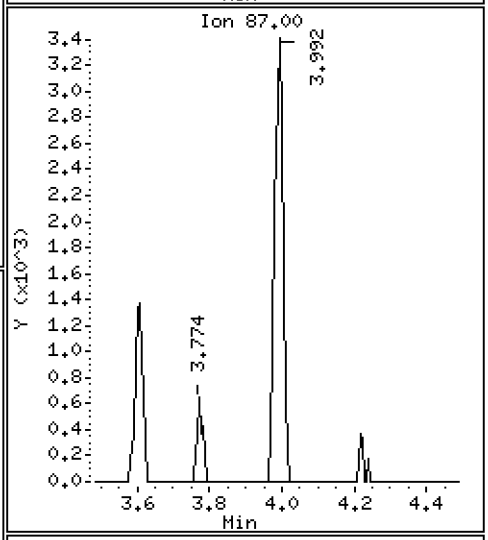


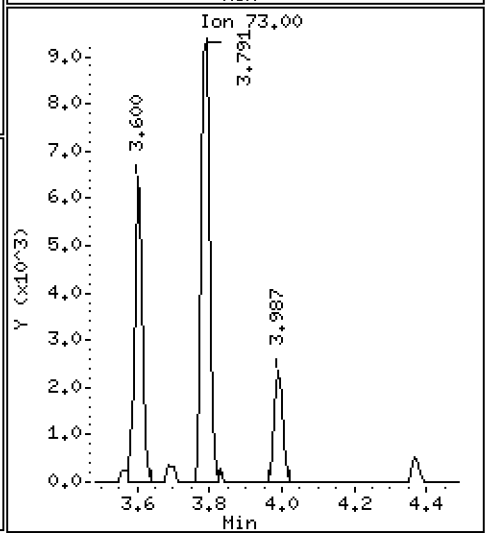












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 65

Date : 24-OCT-2016 23:25

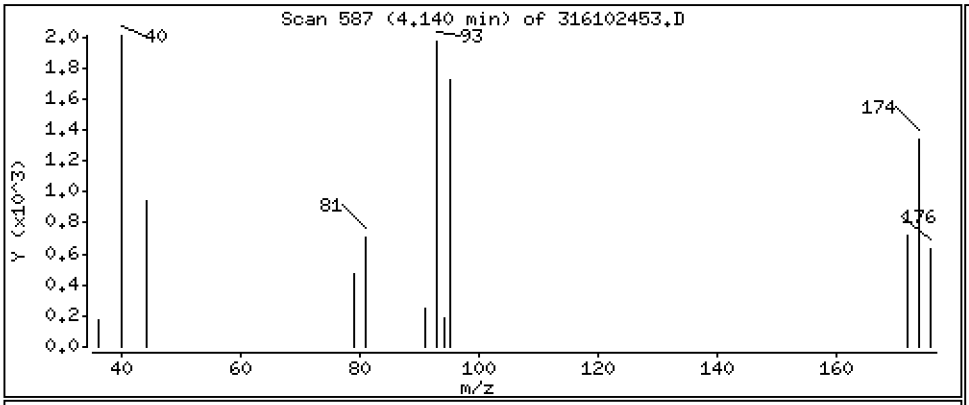
Client ID: Instrument: ms03.i

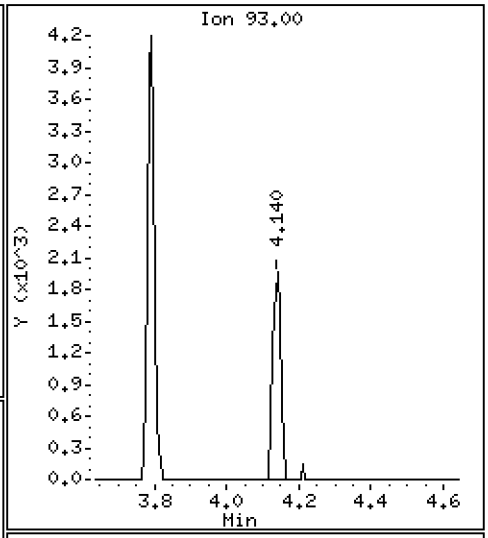
Sample Info: VSTD00.5;;1;1;8;;;

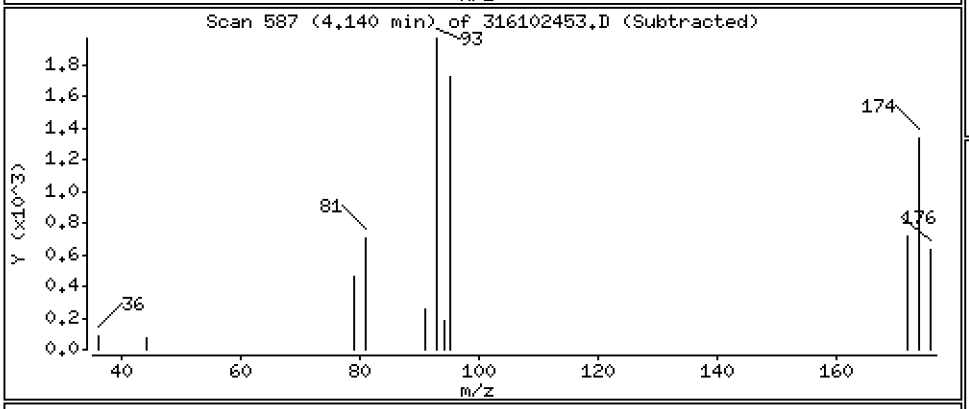
Purge Volume: 5.0 Operator: CJG

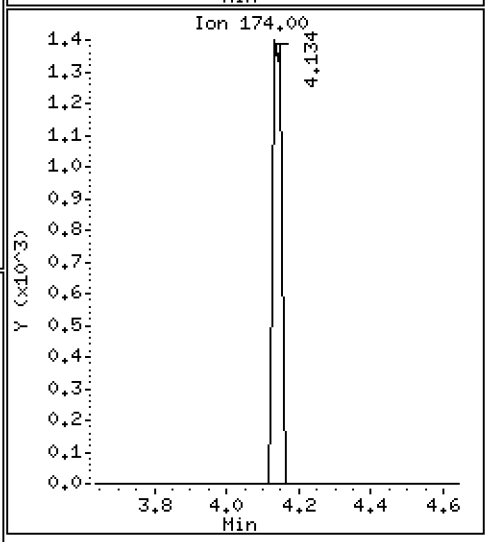
Column phase: DB-VRX Column diameter: 0.25

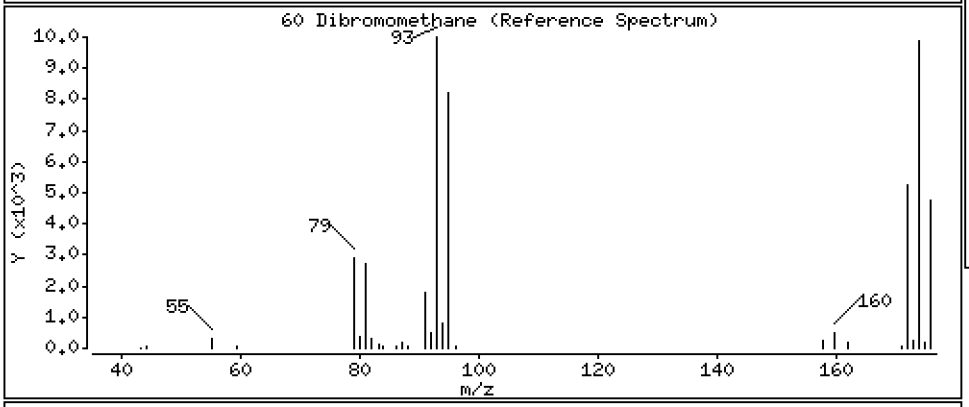
60 Dibromomethane Concentration: 0.611602 ug/L

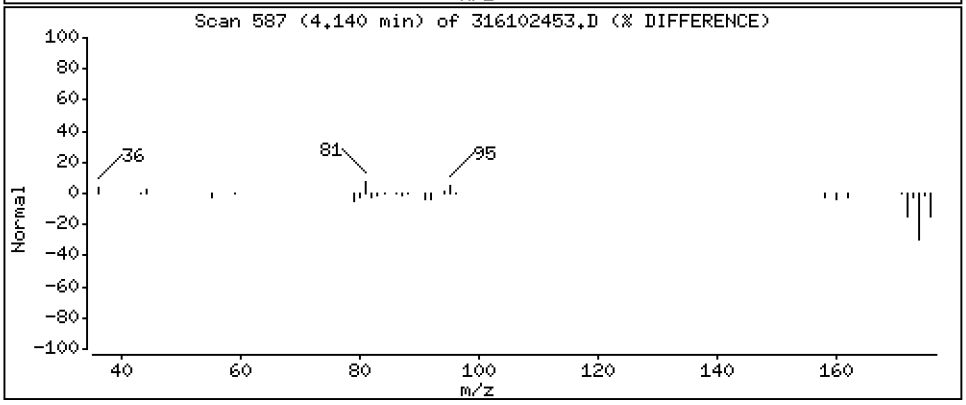












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 66

Date : 24-OCT-2016 23:25

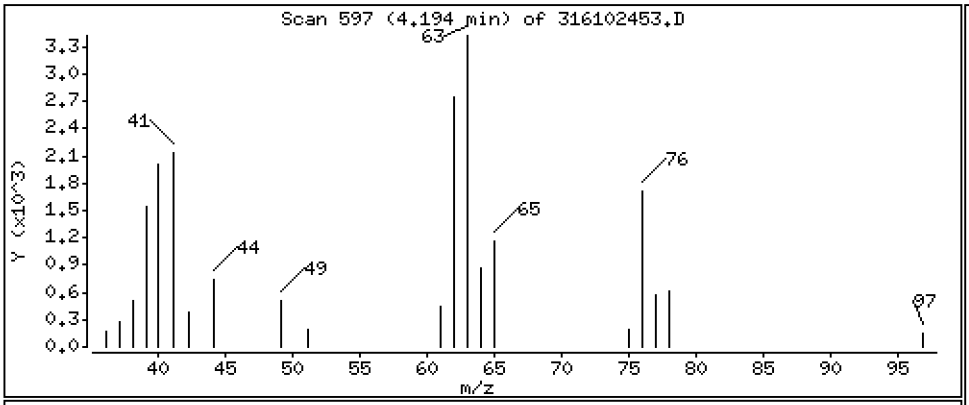
Client ID: Instrument: ms03.i

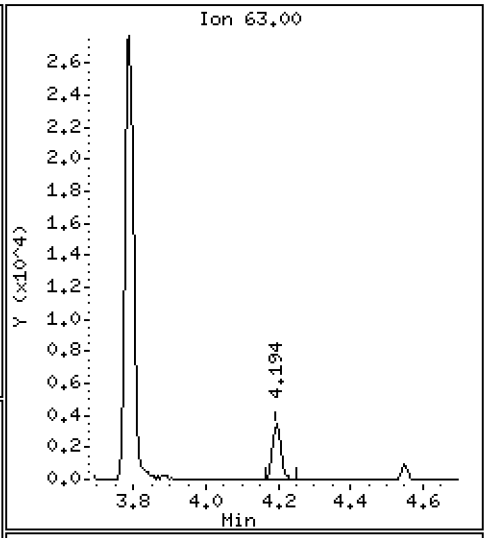
Sample Info: VSTD00.5;;1;1;8;;;

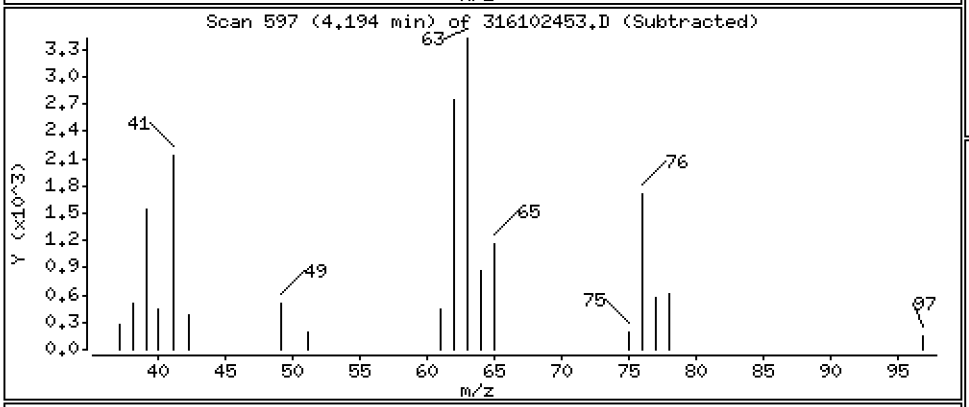
Purge Volume: 5.0 Operator: CJG

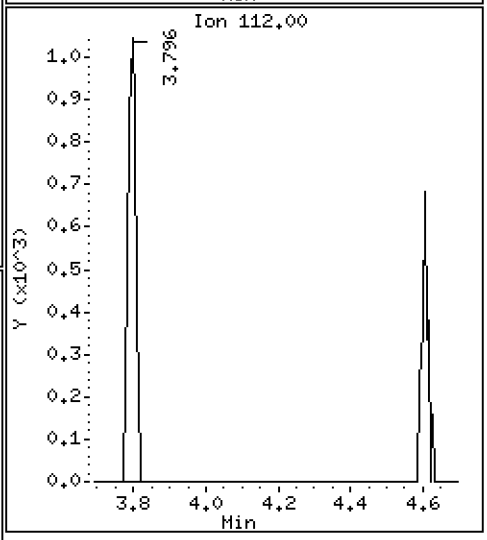
Column phase: DB-VRX Column diameter: 0.25

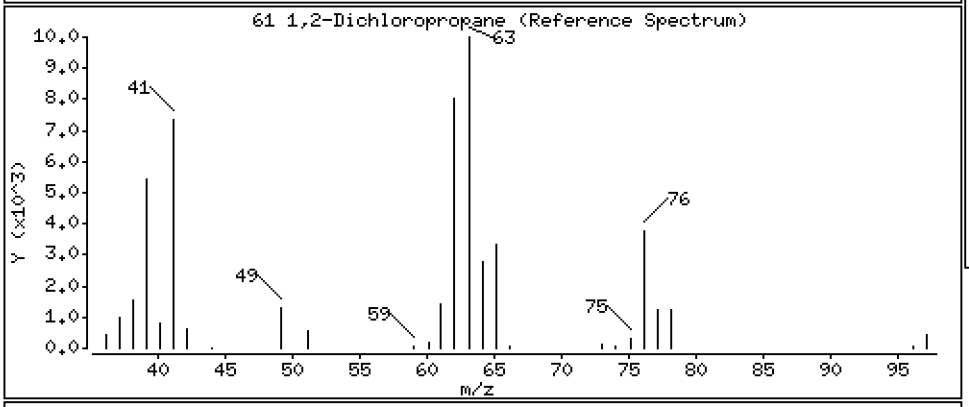
61 1,2-Dichloropropane Concentration: 0.541575 ug/L

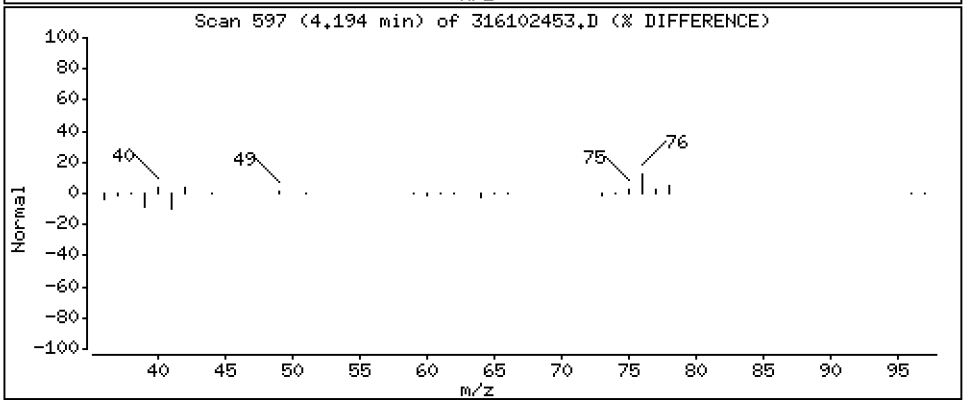












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 67

Date : 24-OCT-2016 23:25

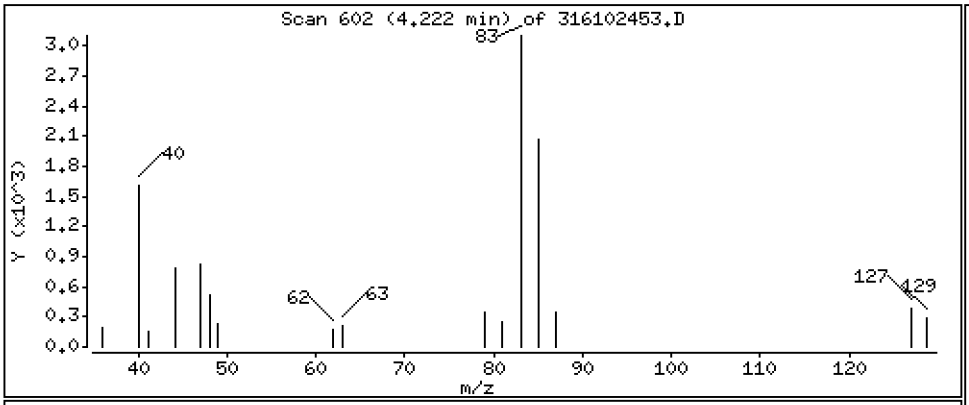
Client ID: Instrument: ms03.i

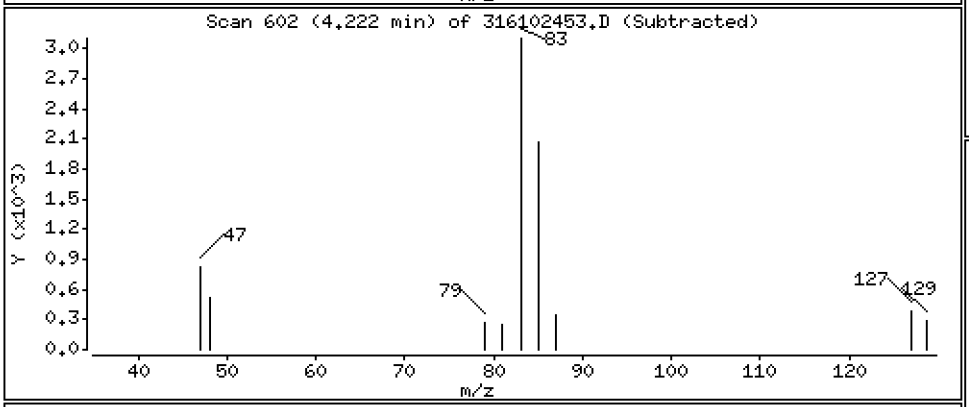
Sample Info: VSTD00.5;;1;1;8;;;

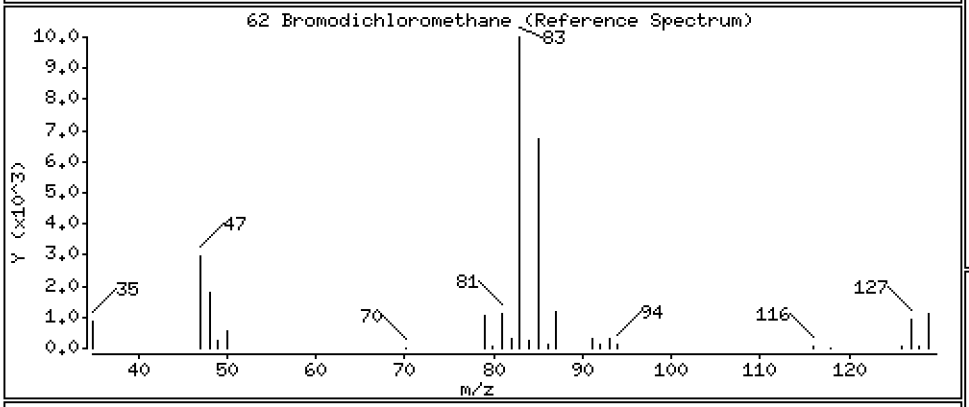
Purge Volume: 5.0 Operator: CJG

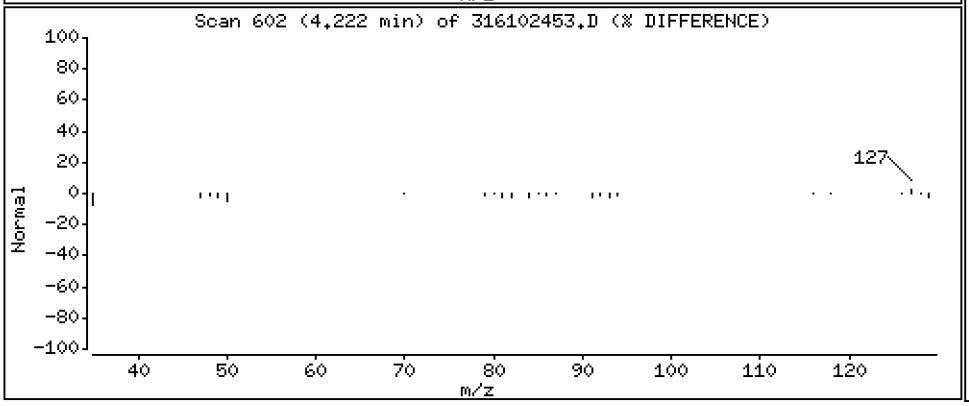
Column phase: DB-VRX Column diameter: 0.25

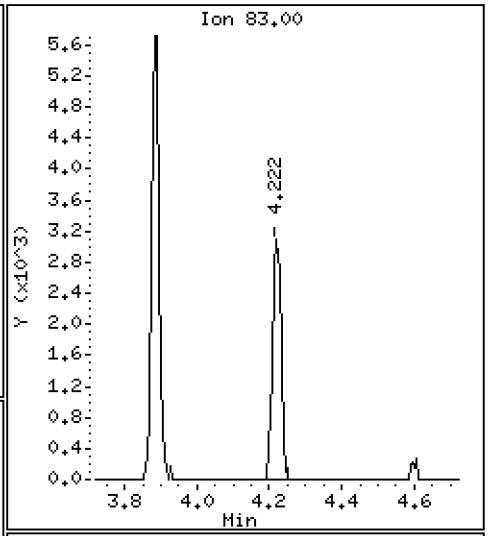
62 Bromodichloromethane Concentration: 0.470390 ug/L

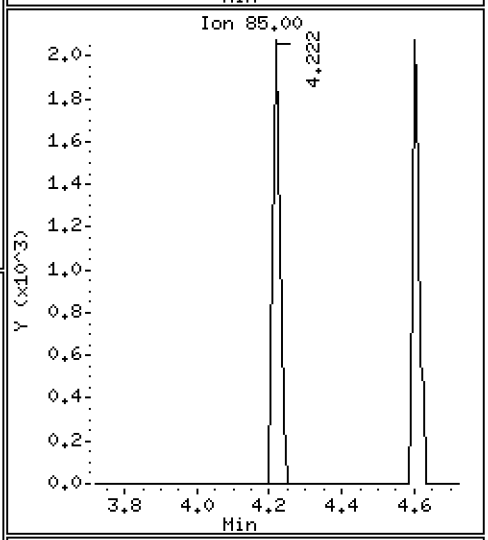


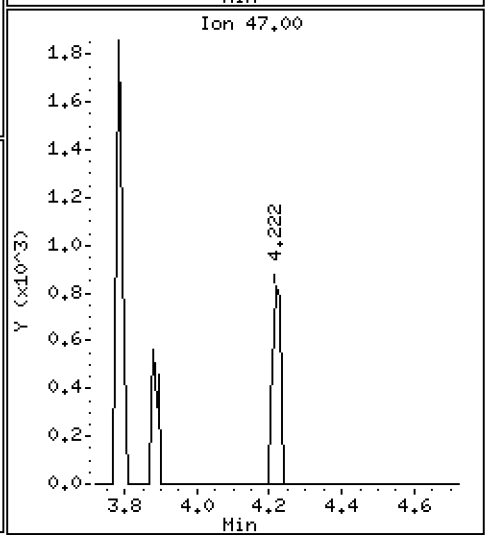












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 68

Date : 24-OCT-2016 23:25

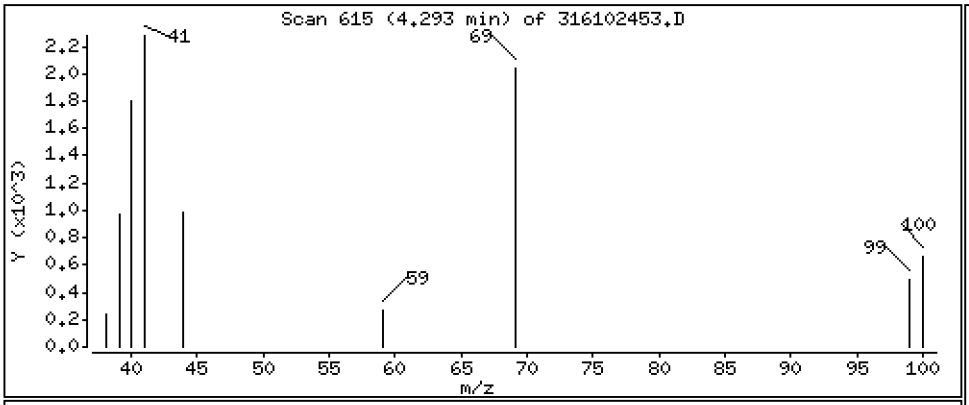
Client ID: Instrument: ms03.i

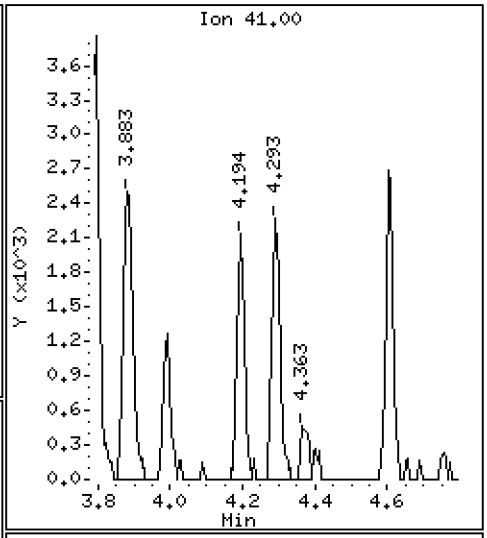
Sample Info: VSTD00.5;;1;1;8;;;

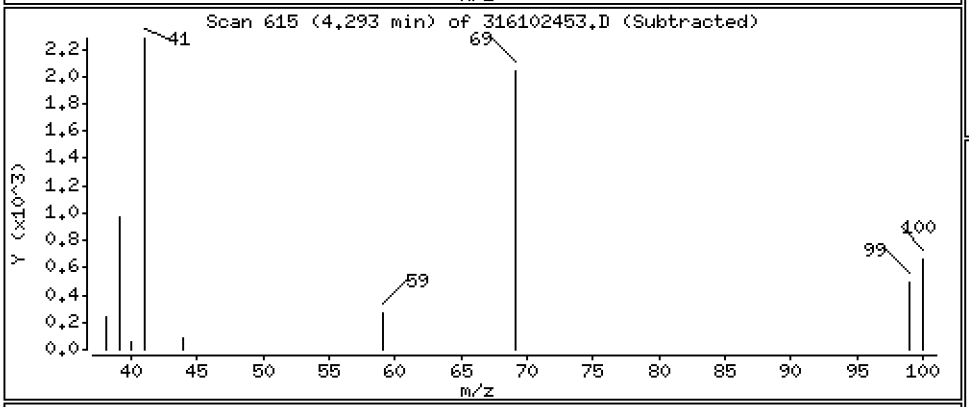
Purge Volume: 5.0 Operator: CJG

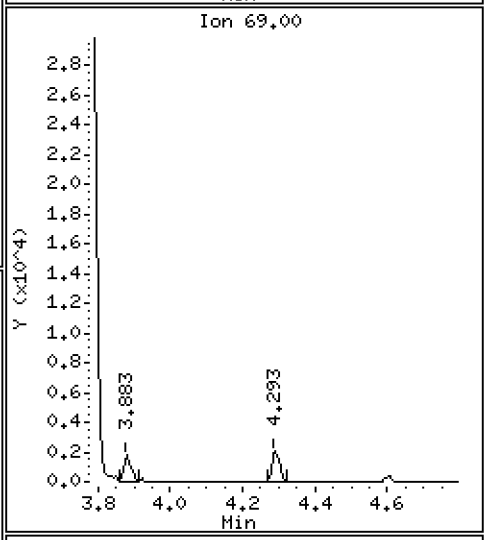
Column phase: DB-VRX Column diameter: 0.25

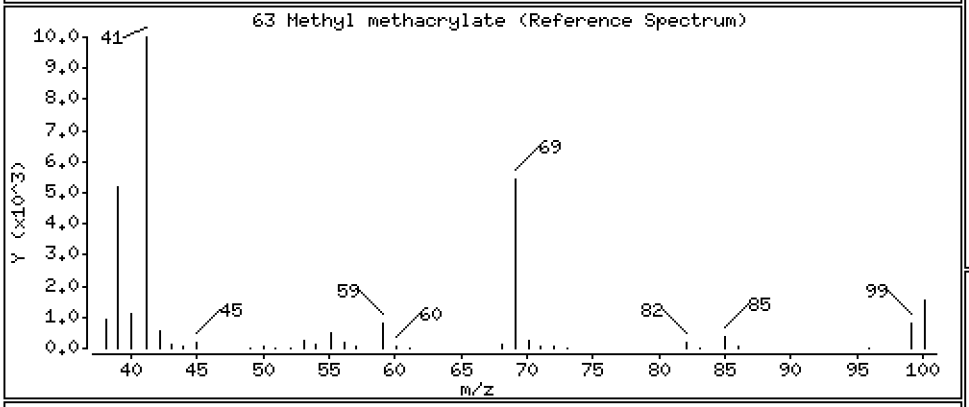
63 Methyl methacrylate Concentration: 0.466598 ug/L

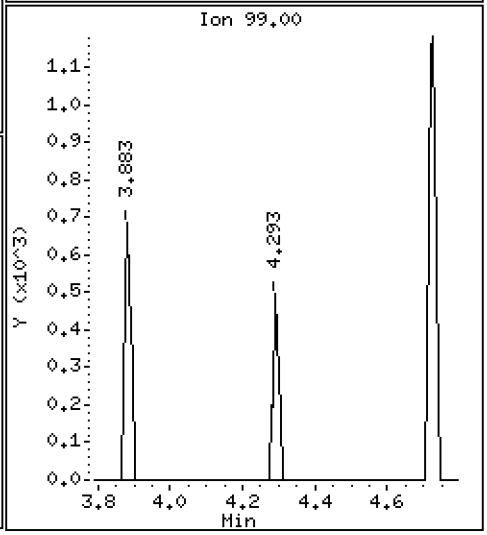


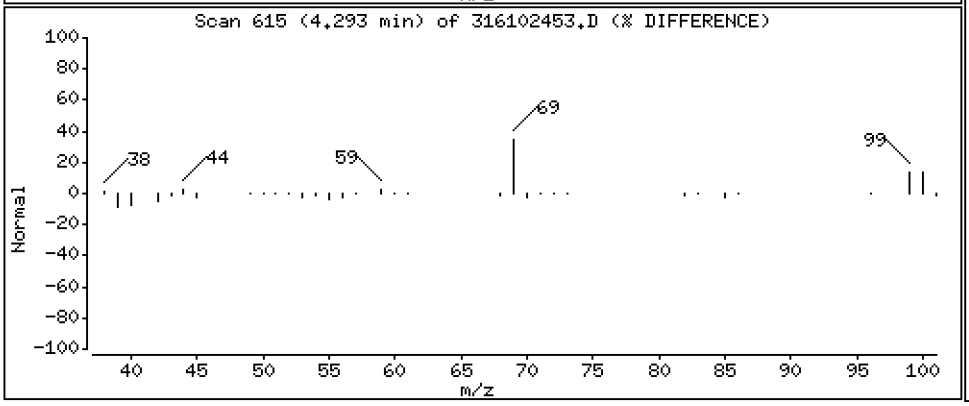












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 69

Date : 24-OCT-2016 23:25

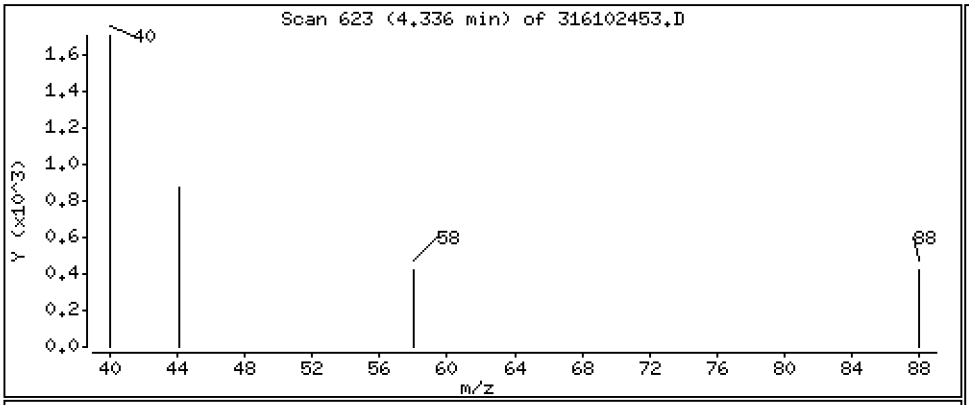
Client ID: Instrument: ms03.i

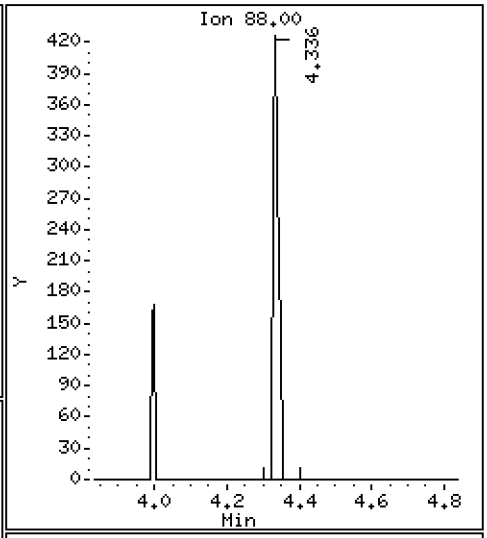
Sample Info: VSTD00.5;;1;1;8;;;

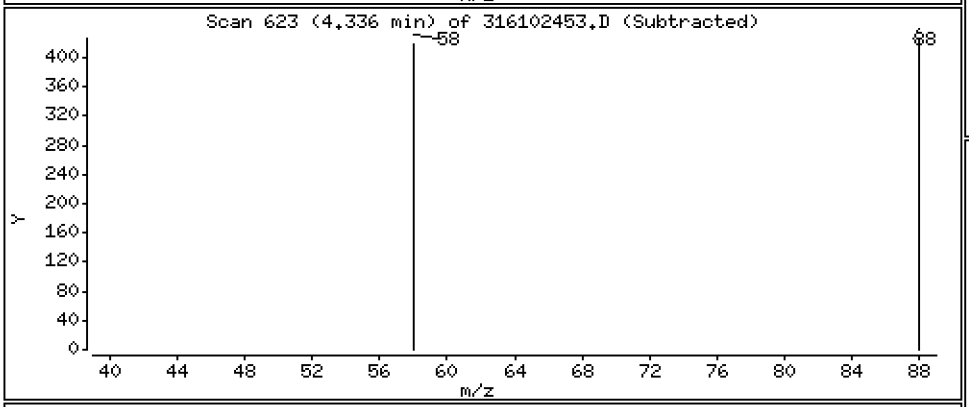
Purge Volume: 5.0 Operator: CJG

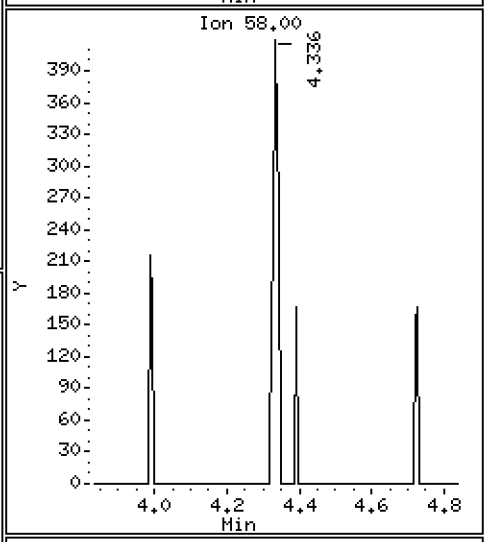
Column phase: DB-VRX Column diameter: 0.25

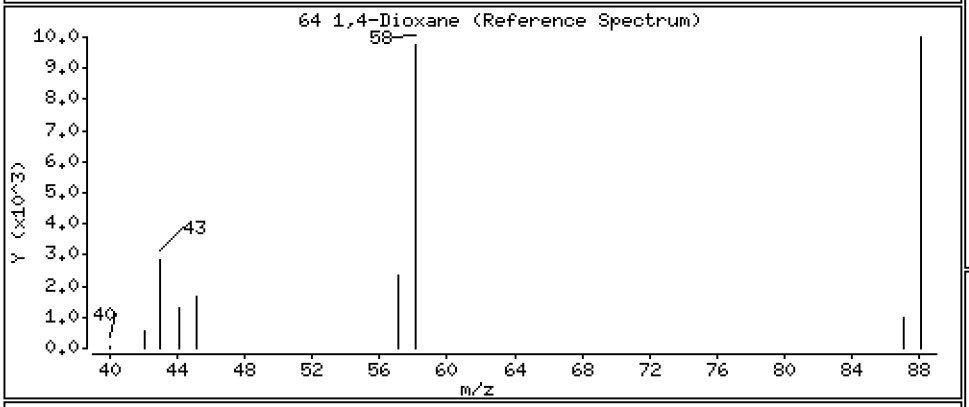
64 1,4-Dioxane Concentration: 10.8705 ug/L

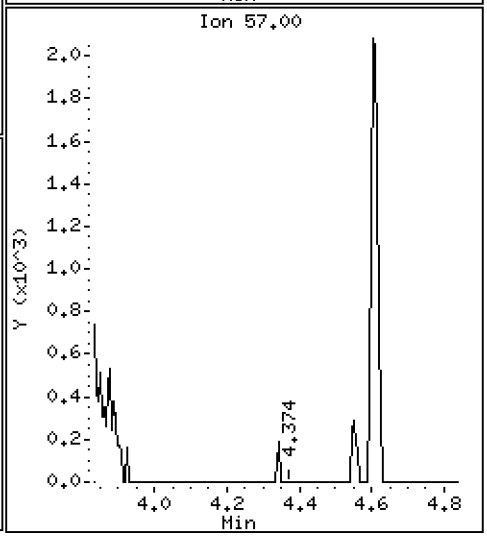


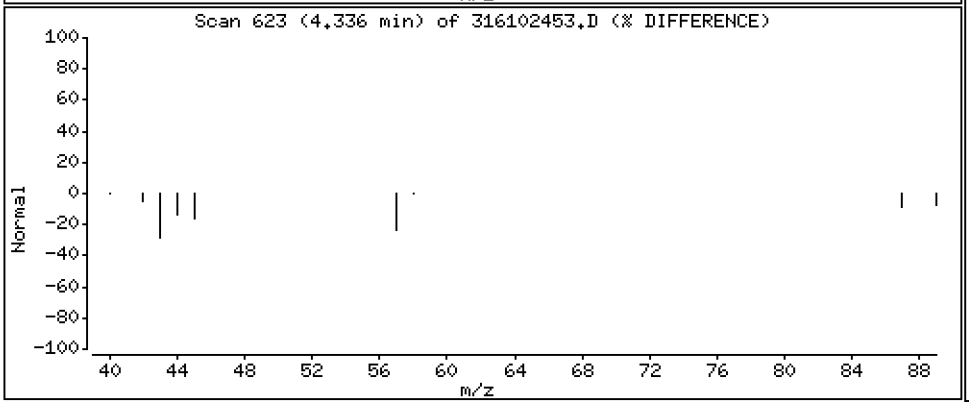












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 70

Date : 24-OCT-2016 23:25

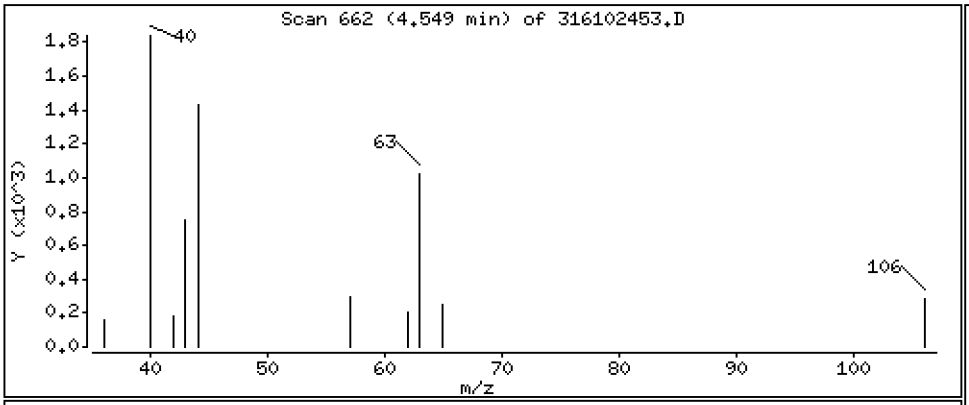
Client ID: Instrument: ms03.i

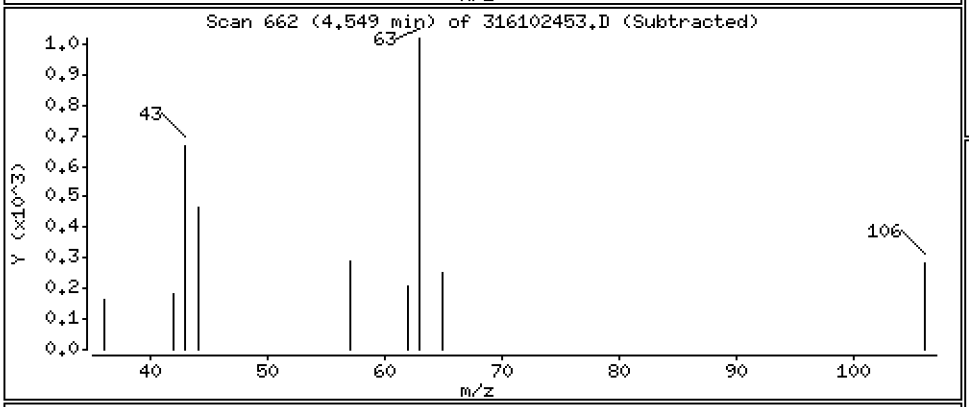
Sample Info: VSTD00.5;;1;1;8;;;

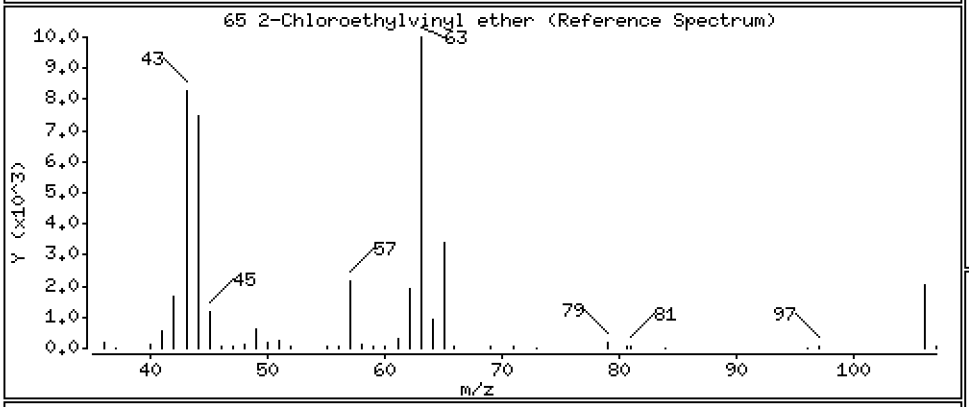
Purge Volume: 5.0 Operator: CJG

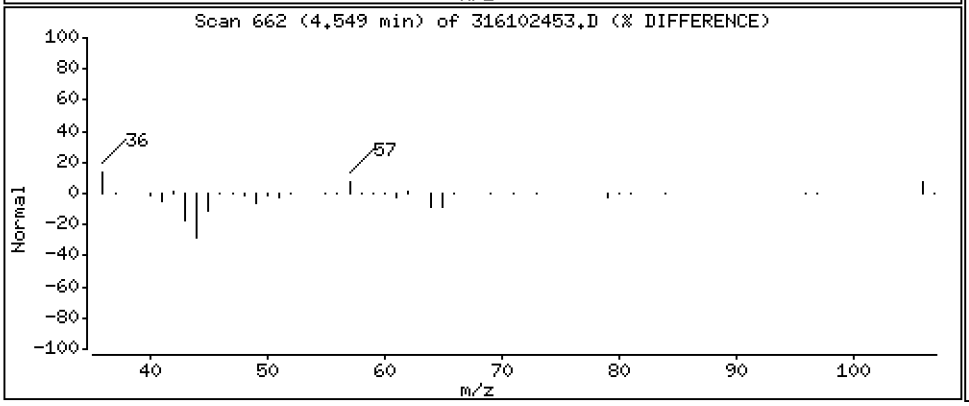
Column phase: DB-VRX Column diameter: 0.25

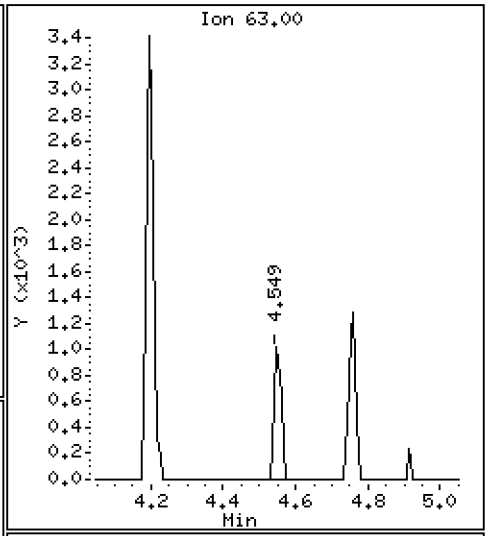
65 2-Chloroethylvinyl ether Concentration: 0.295843 ug/L

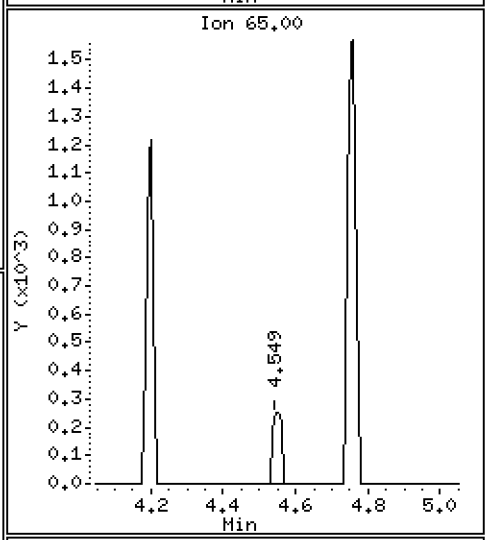


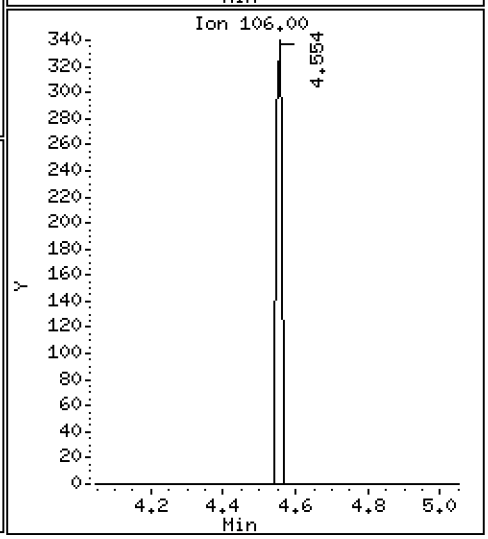












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 71

Date : 24-OCT-2016 23:25

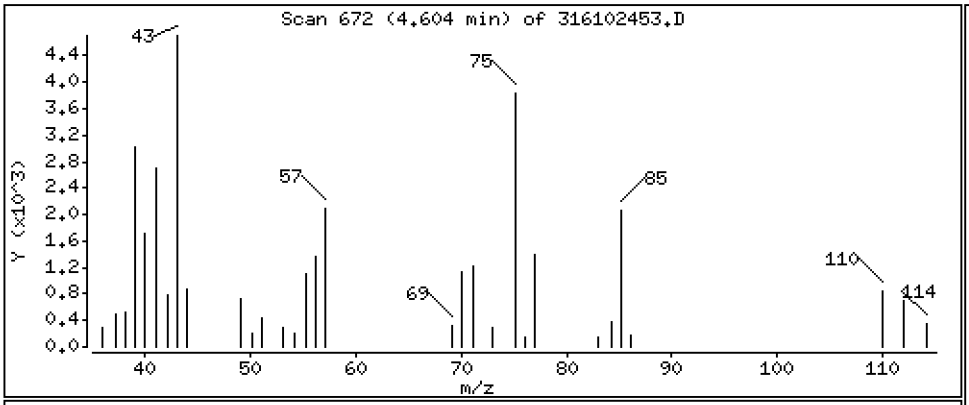
Client ID: Instrument: ms03.i

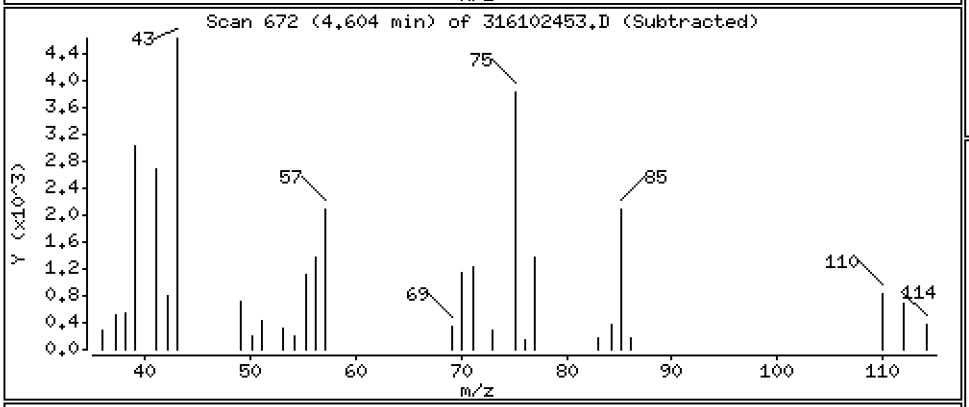
Sample Info: VSTD00.5;;1;1;8;;;

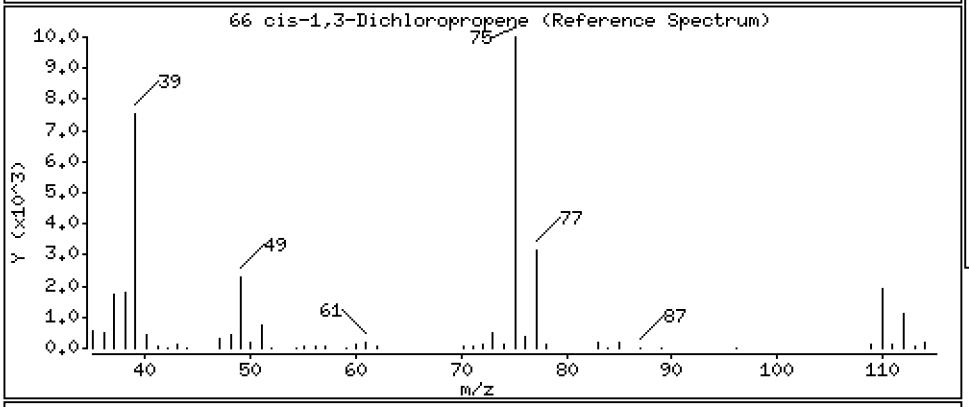
Purge Volume: 5.0 Operator: CJG

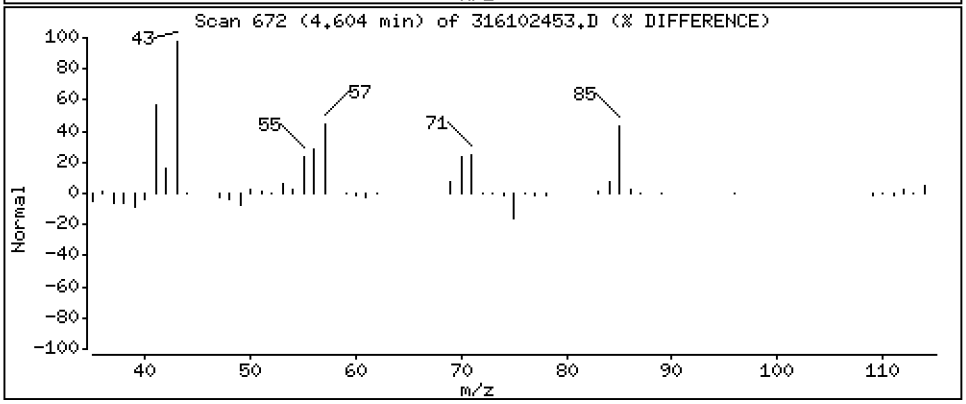
Column phase: DB-VRX Column diameter: 0.25

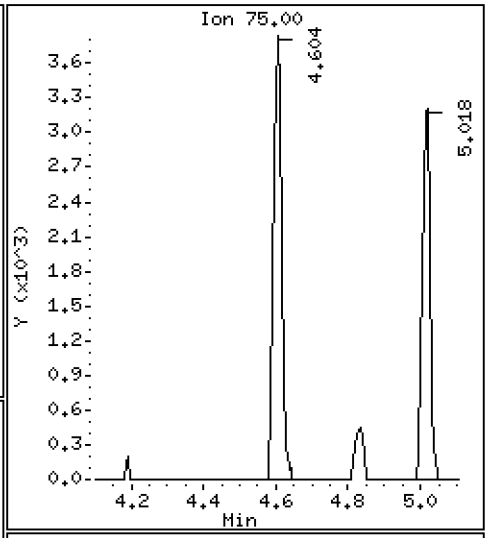
66 cis-1,3-Dichloropropene Concentration: 0.447976 ug/L

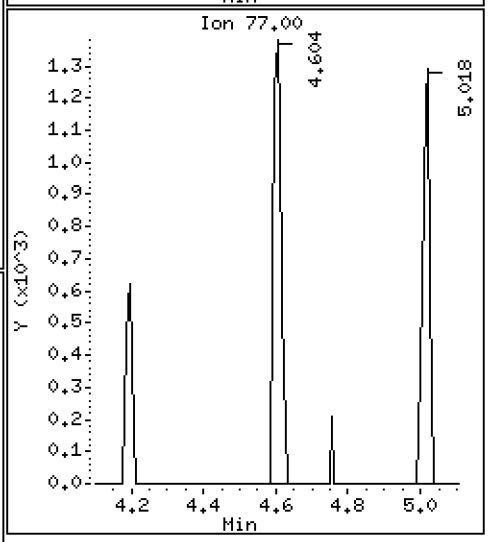












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 72

Date : 24-OCT-2016 23:25

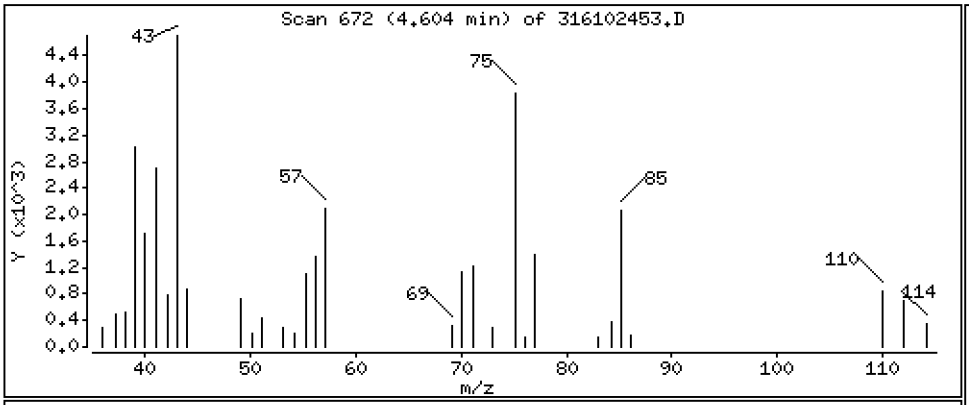
Client ID: Instrument: ms03.i

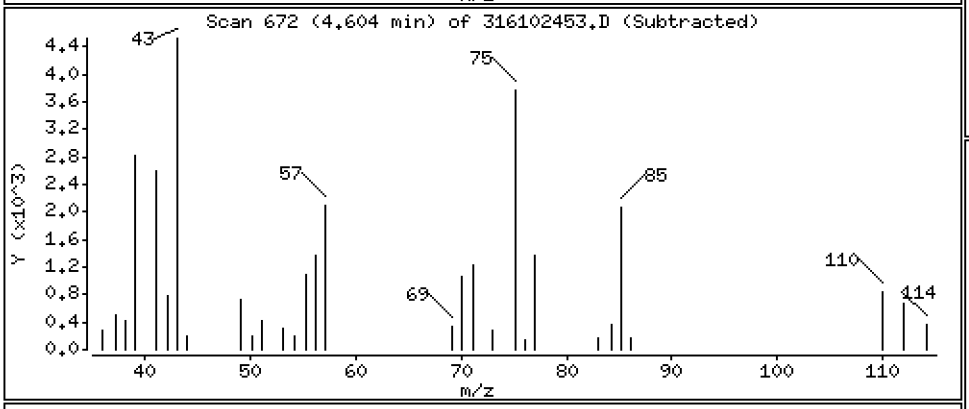
Sample Info: VSTD00.5;;1;1;8;;;

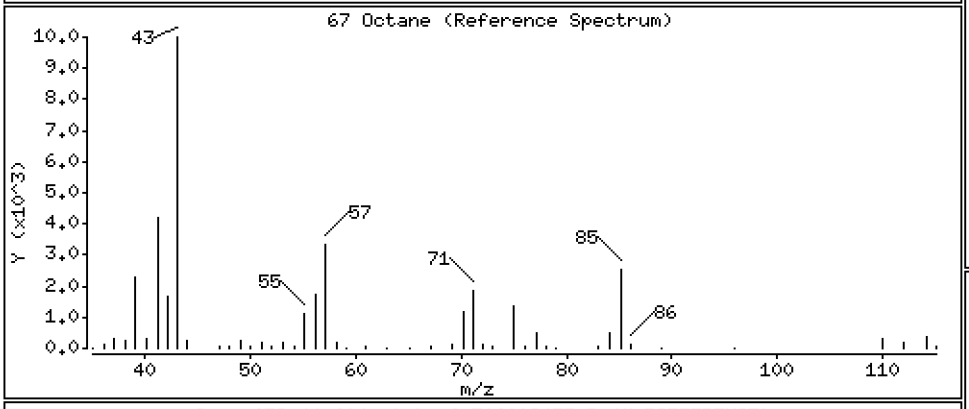
Purge Volume: 5.0 Operator: CJG

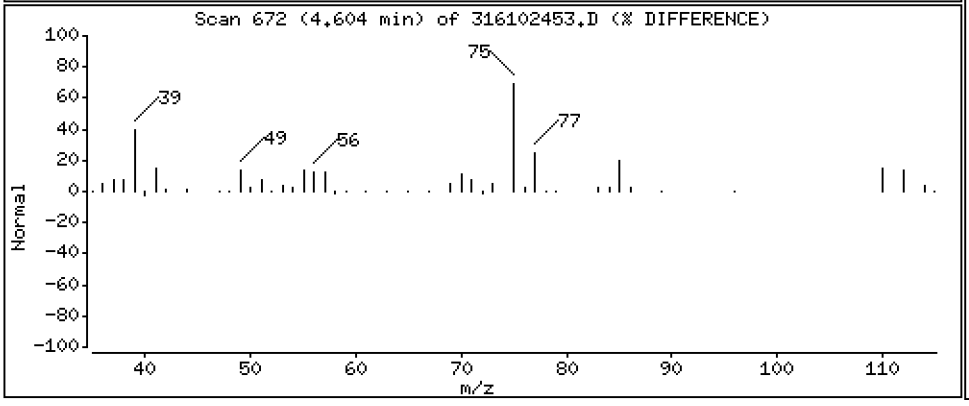
Column phase: DB-VRX Column diameter: 0.25

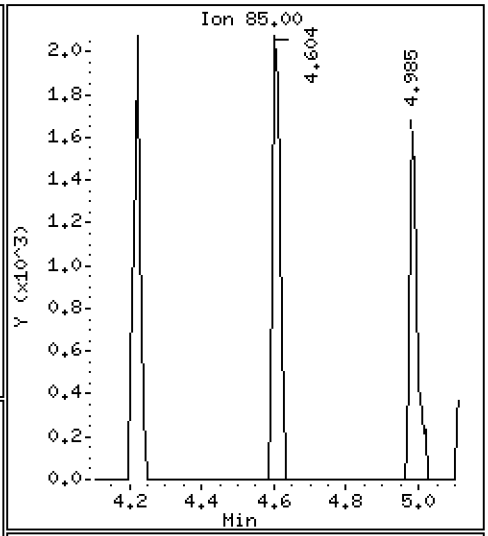
67 Octane Concentration: 0.786164 ug/L

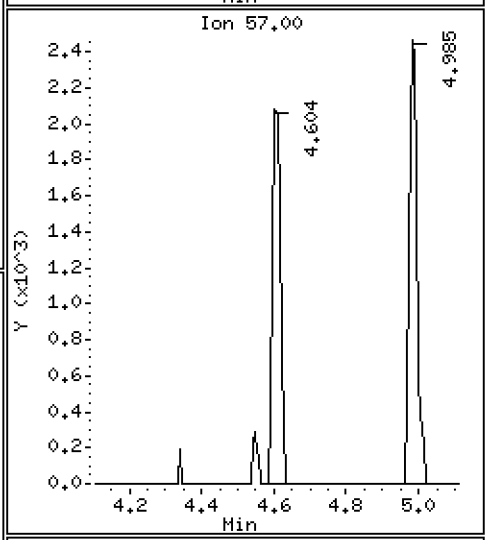


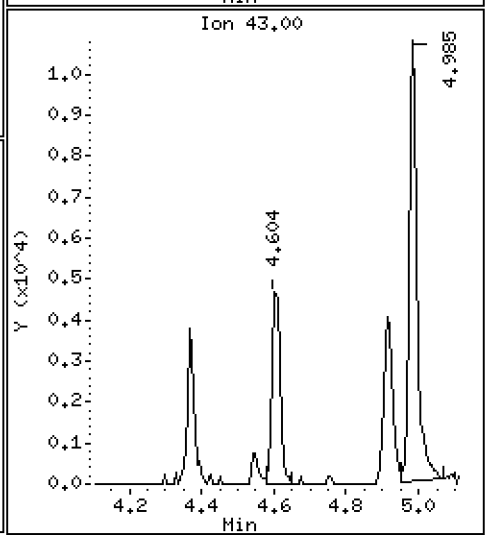












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 73

Date : 24-OCT-2016 23:25

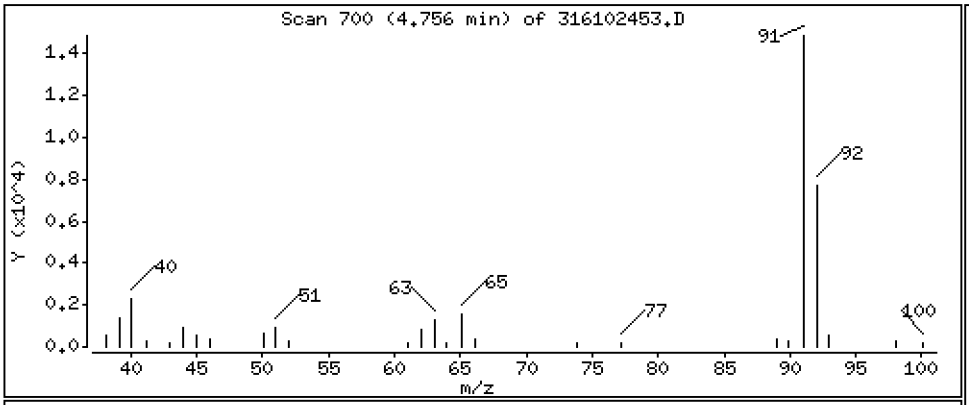
Client ID: Instrument: ms03.i

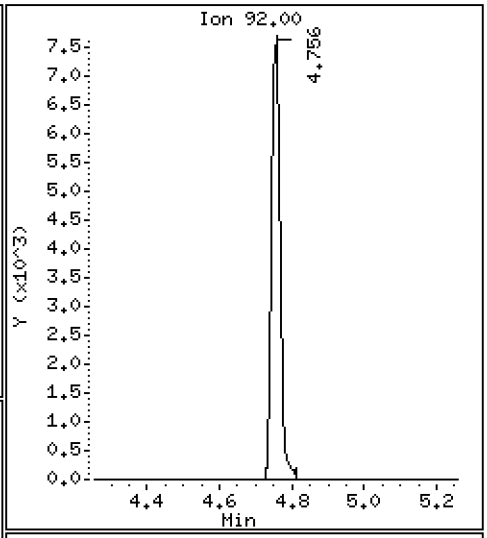
Sample Info: VSTD00.5;;1;1;8;;;

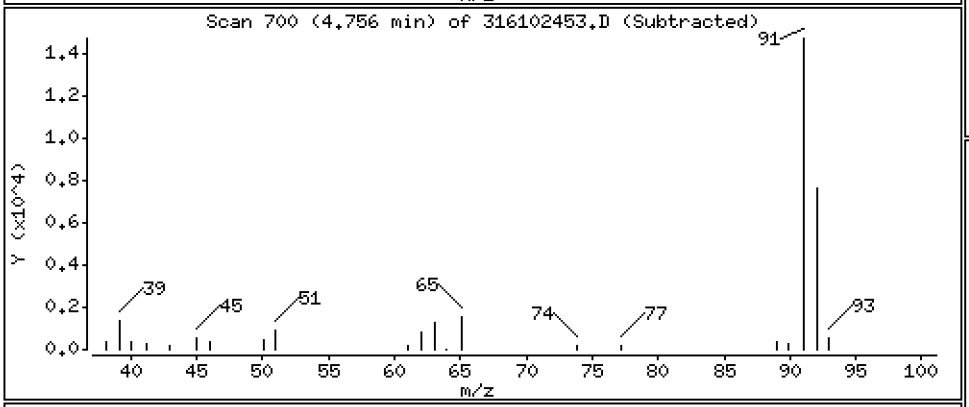
Purge Volume: 5.0 Operator: CJG

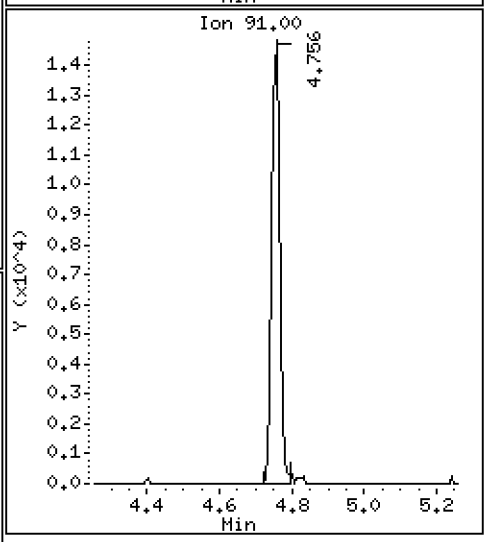
Column phase: DB-VRX Column diameter: 0.25

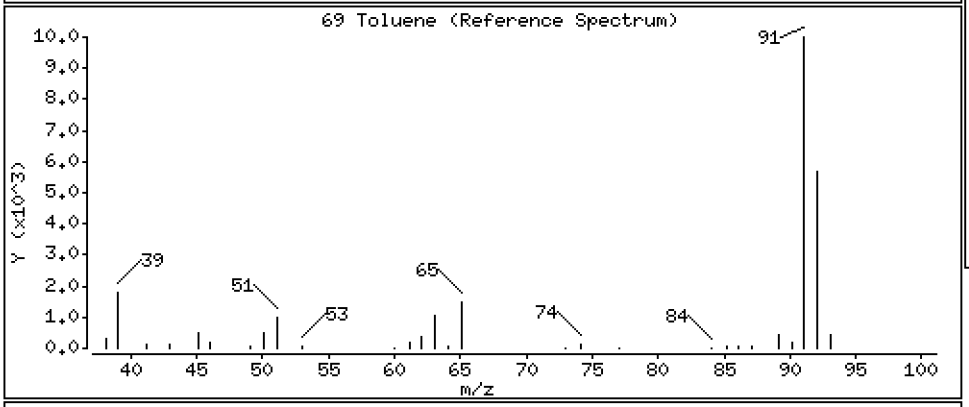
69 Toluene Concentration: 0.596461 ug/L

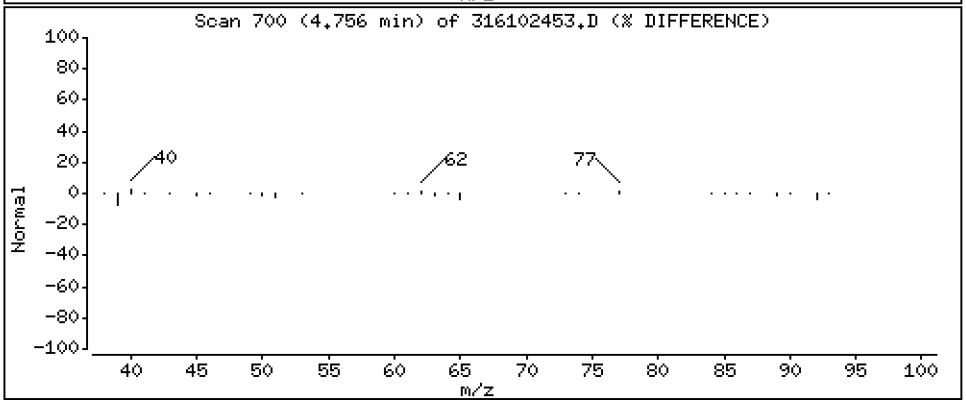












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 74

Date : 24-OCT-2016 23:25

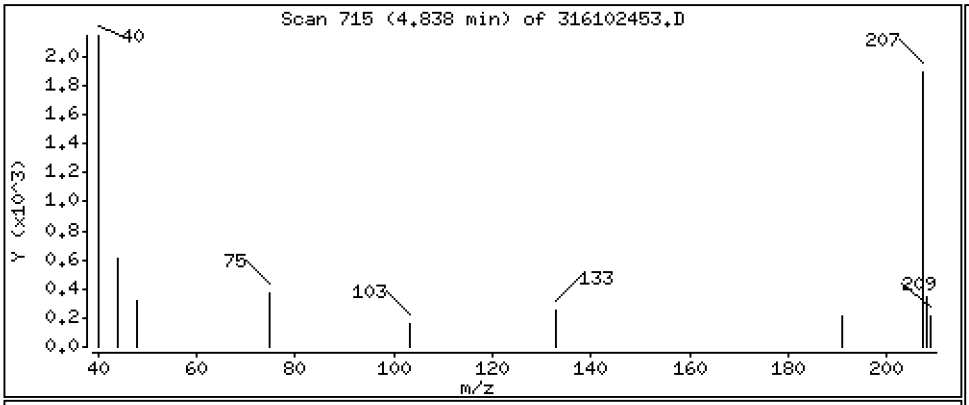
Client ID: Instrument: ms03.i

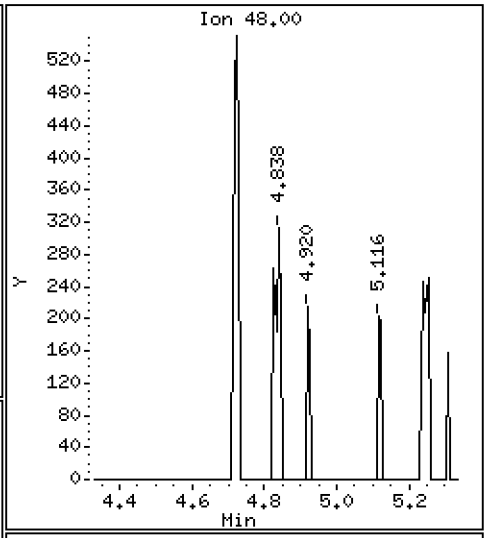
Sample Info: VSTD00.5;;1;1;8;;;

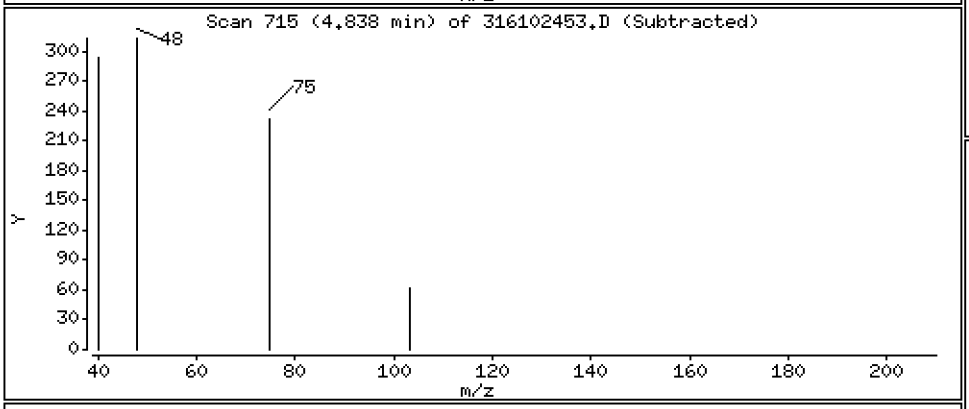
Purge Volume: 5.0 Operator: CJG

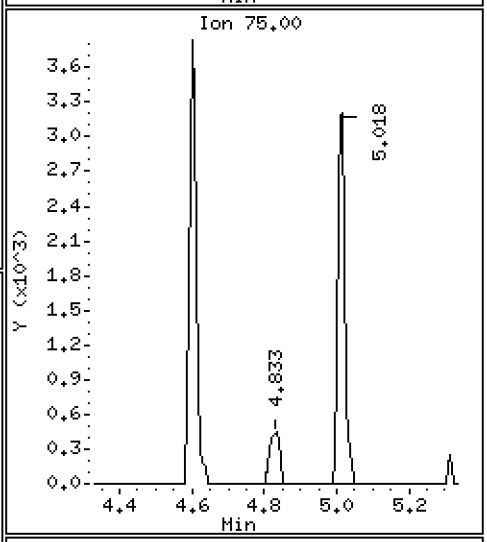
Column phase: DB-VRX Column diameter: 0.25

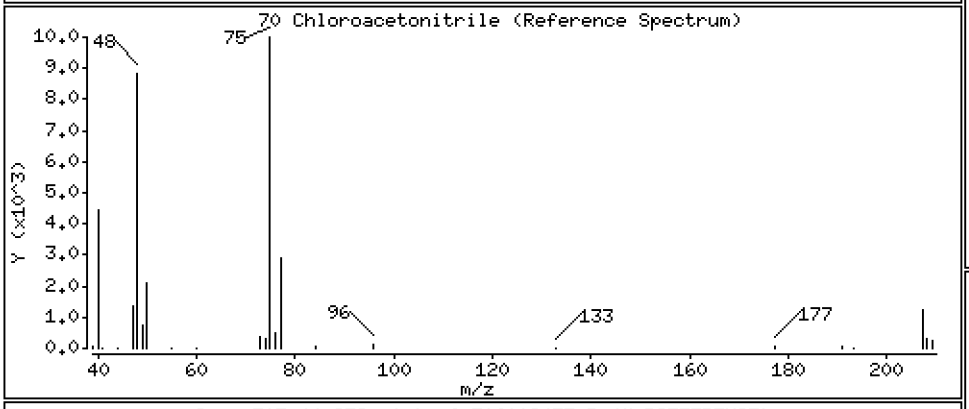
70 Chloroacetonitrile Concentration: 1.84158 ug/L

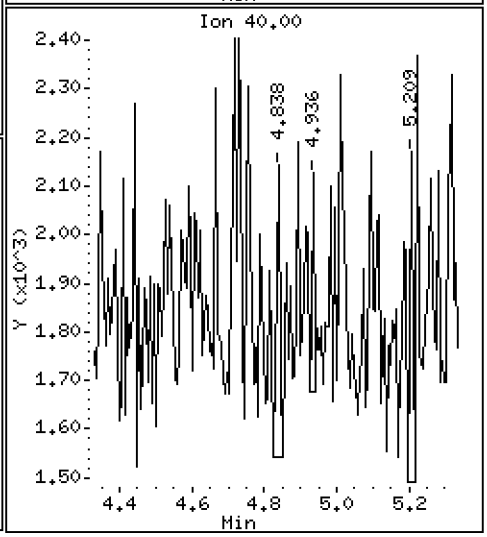


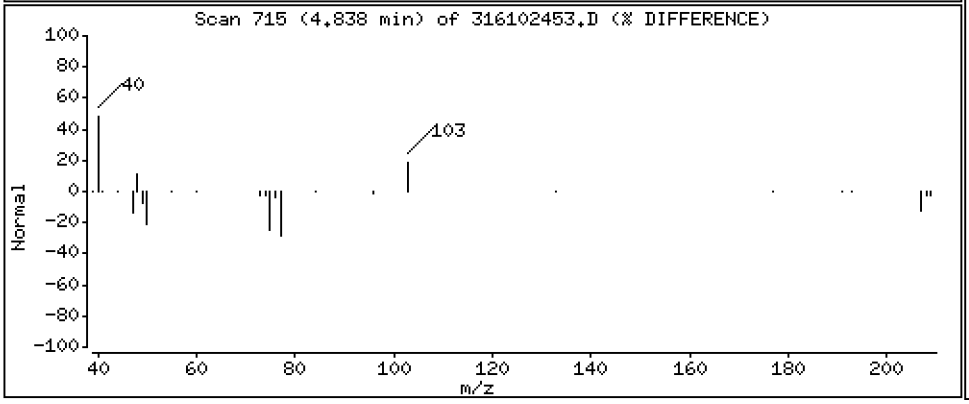












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 75

Date : 24-OCT-2016 23:25

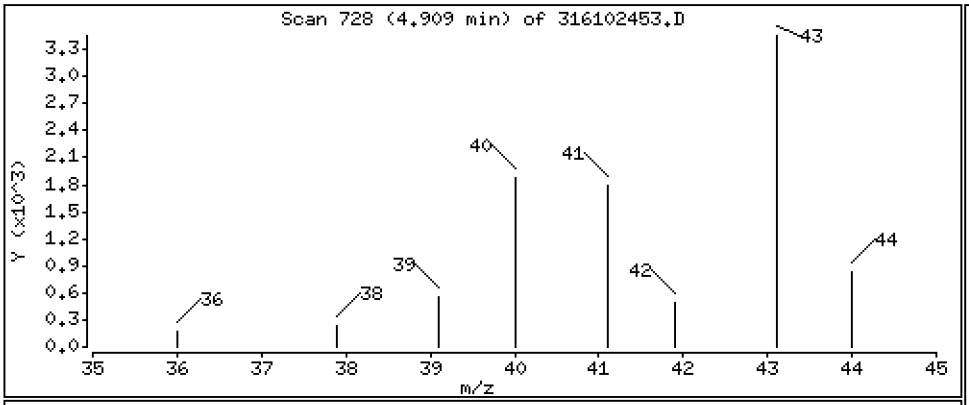
Client ID: Instrument: ms03.i

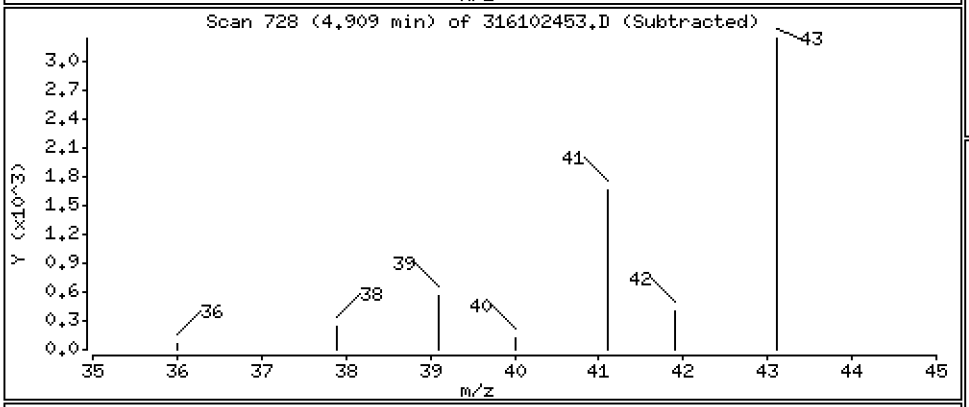
Sample Info: VSTD00.5;;1;1;8;;;

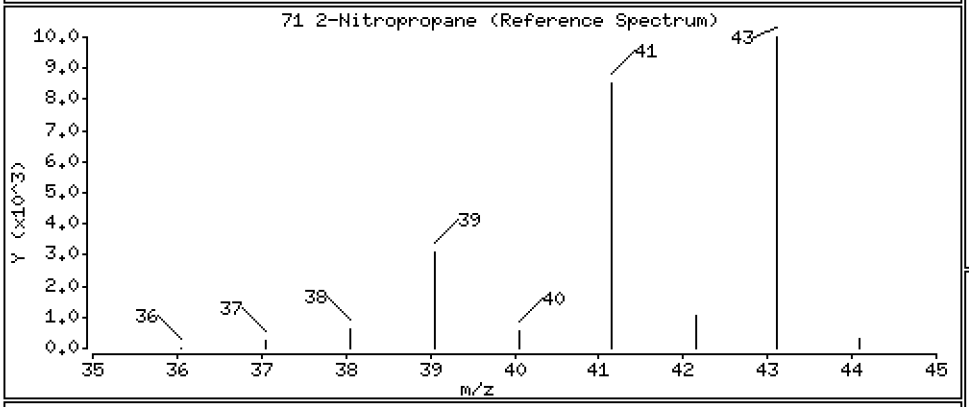
Purge Volume: 5.0 Operator: CJG

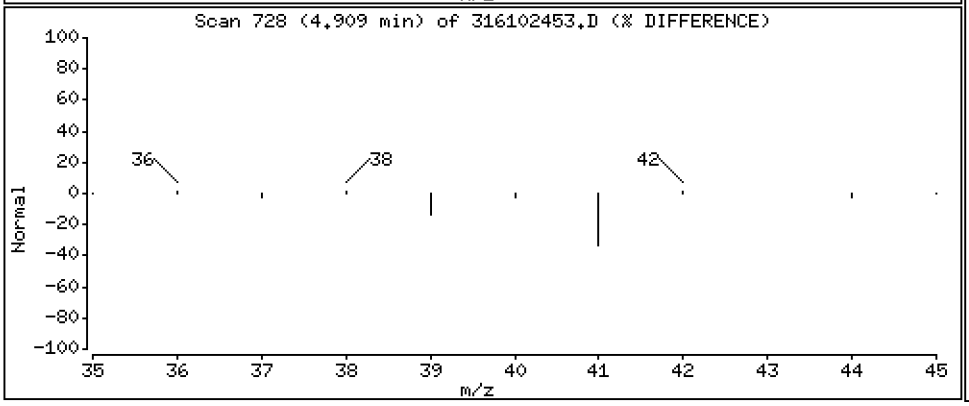
Column phase: DB-VRX Column diameter: 0.25

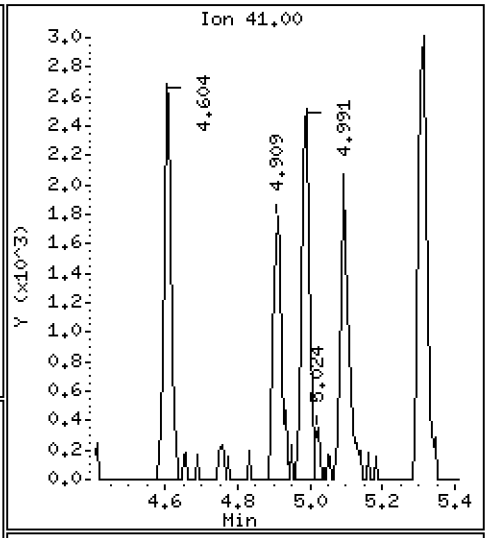
71 2-Nitropropane Concentration: 1.92520 ug/L

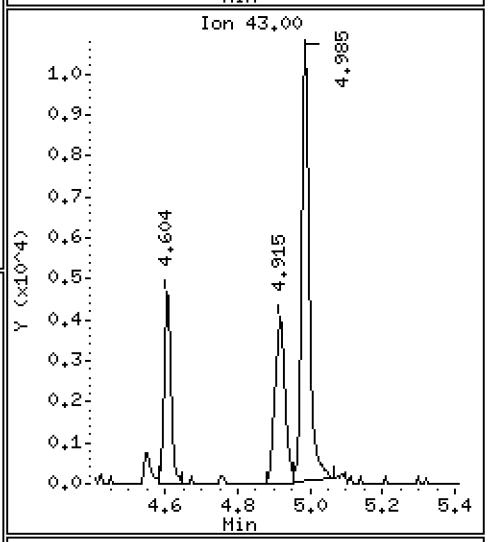


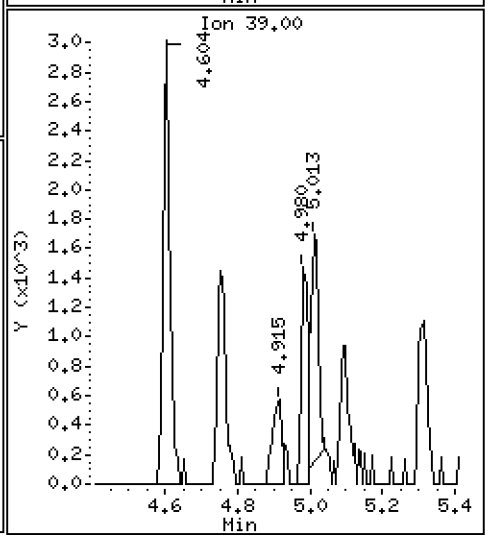












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 76

Date : 24-OCT-2016 23:25

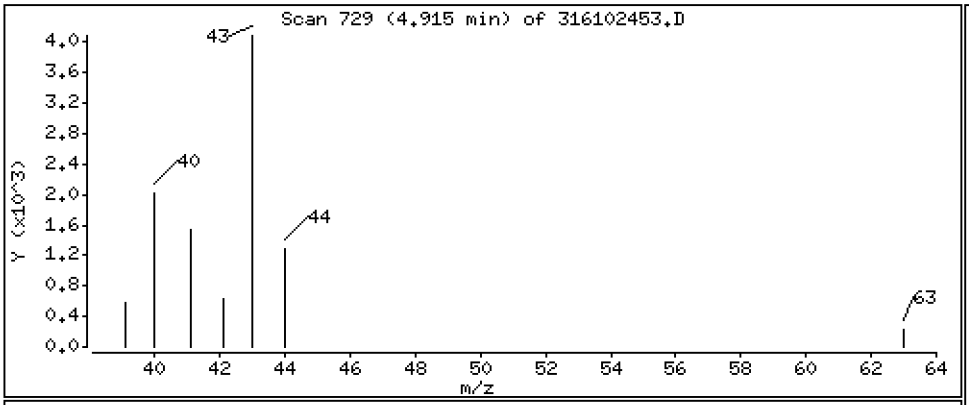
Client ID: Instrument: ms03.i

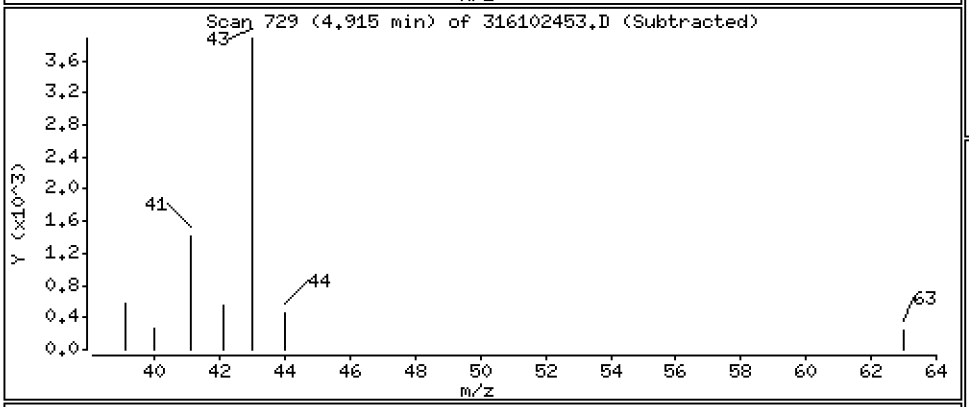
Sample Info: VSTD00.5;;1;1;8;;;

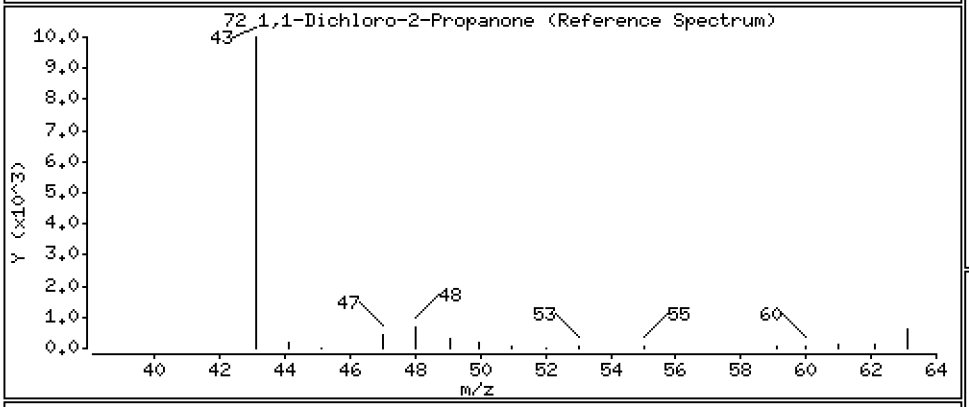
Purge Volume: 5.0 Operator: CJG

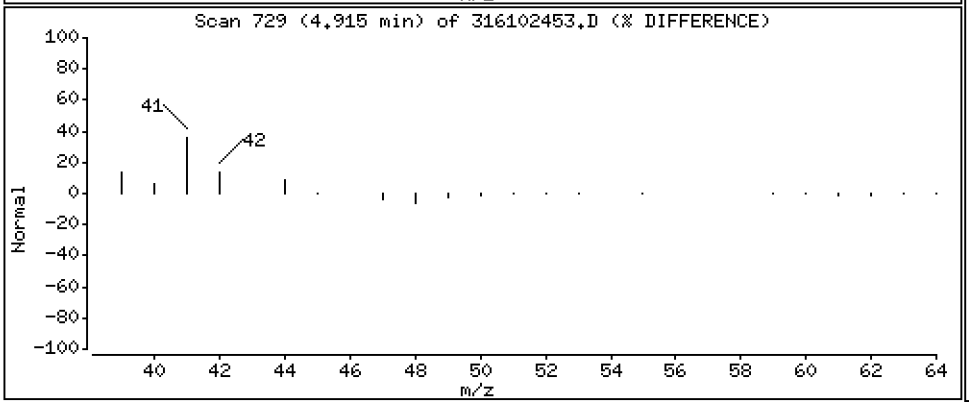
Column phase: DB-VRX Column diameter: 0.25

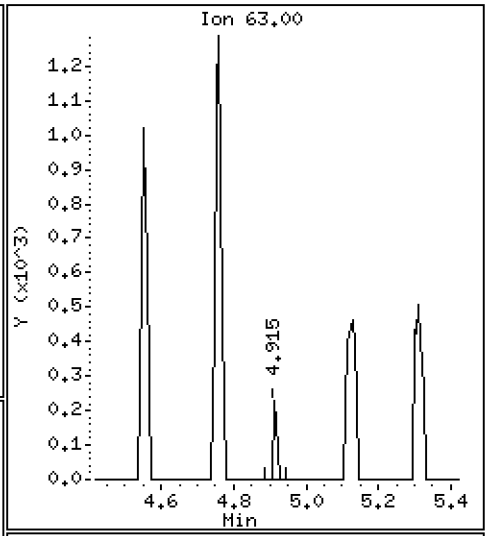
72 1,1-Dichloro-2-Propanone Concentration: 1.02720 ug/L

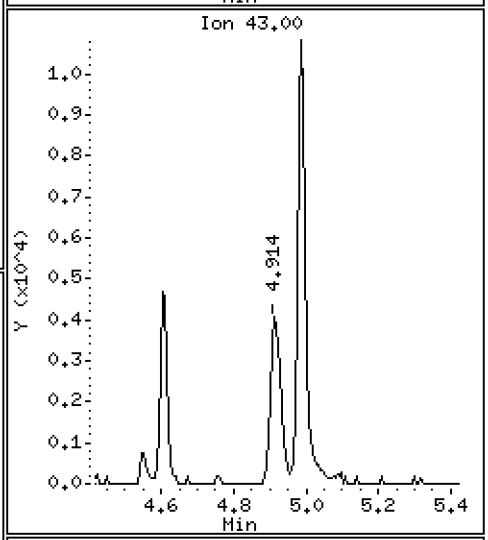


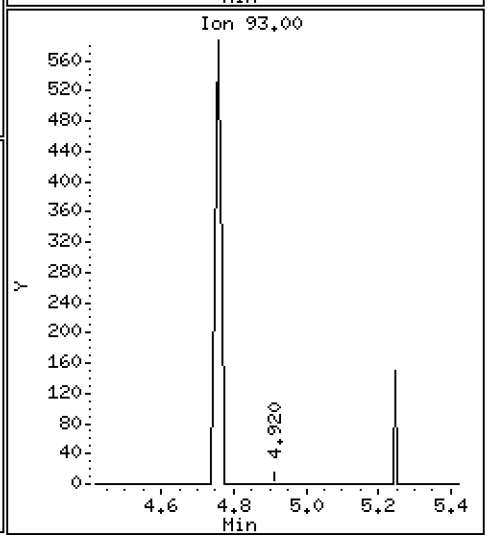












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 77

Date : 24-OCT-2016 23:25

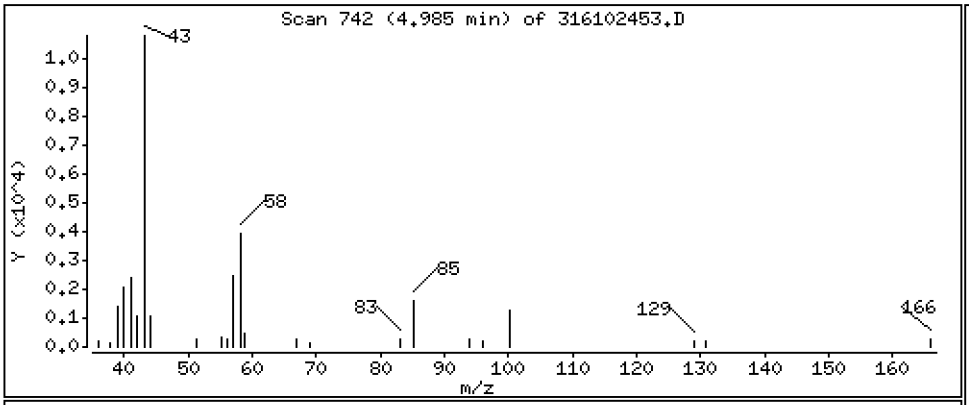
Client ID: Instrument: ms03.i

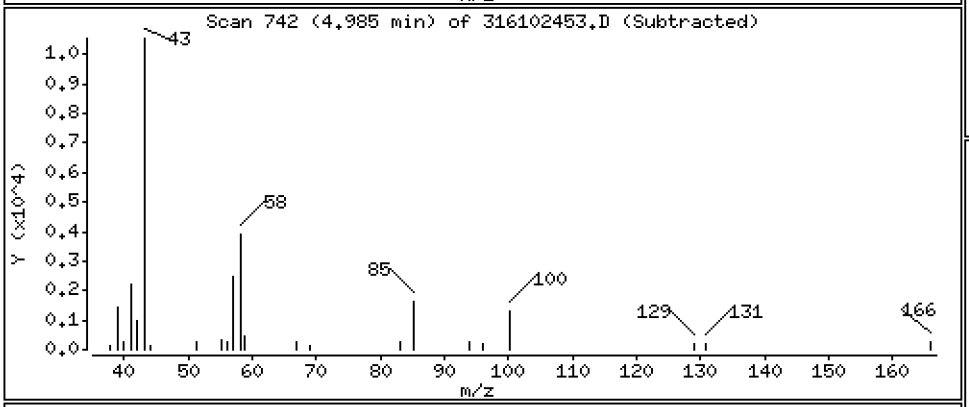
Sample Info: VSTD00.5;;1;1;8;;;

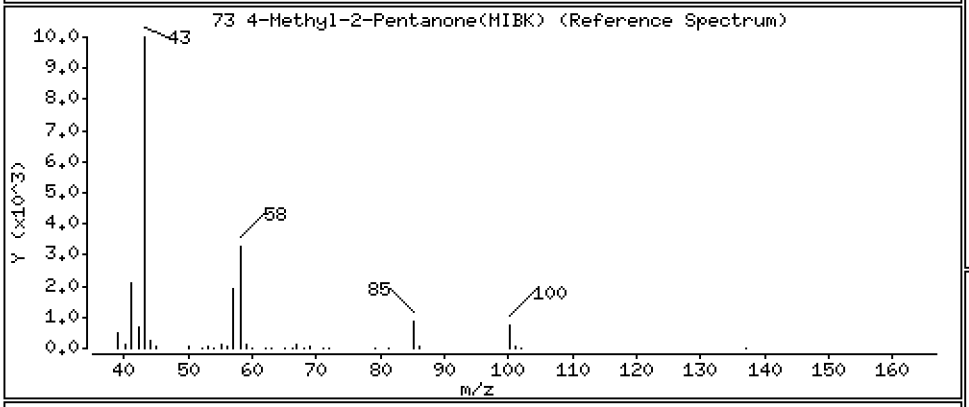
Purge Volume: 5.0 Operator: CJG

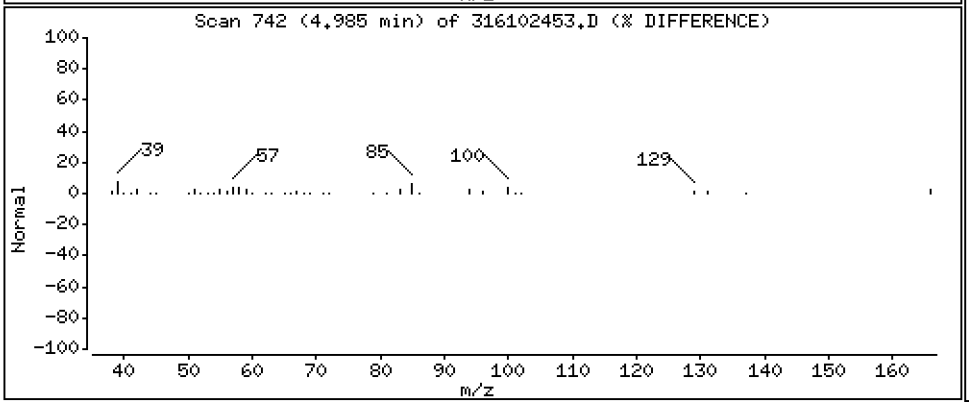
Column phase: DB-VRX Column diameter: 0.25

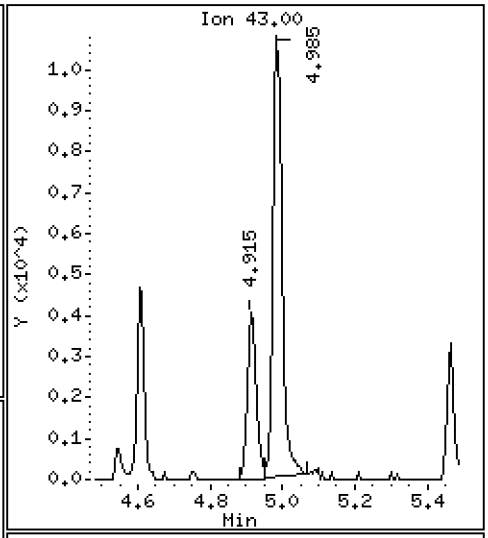
73 4-Methyl-2-Pentanone(MIBK) Concentration: 2.31685 ug/L

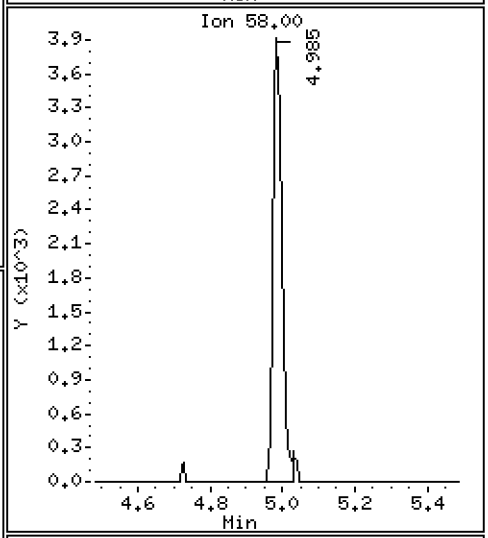


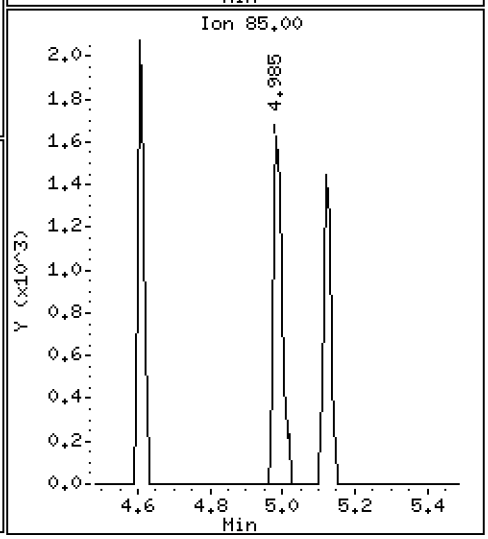












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 78

Date : 24-OCT-2016 23:25

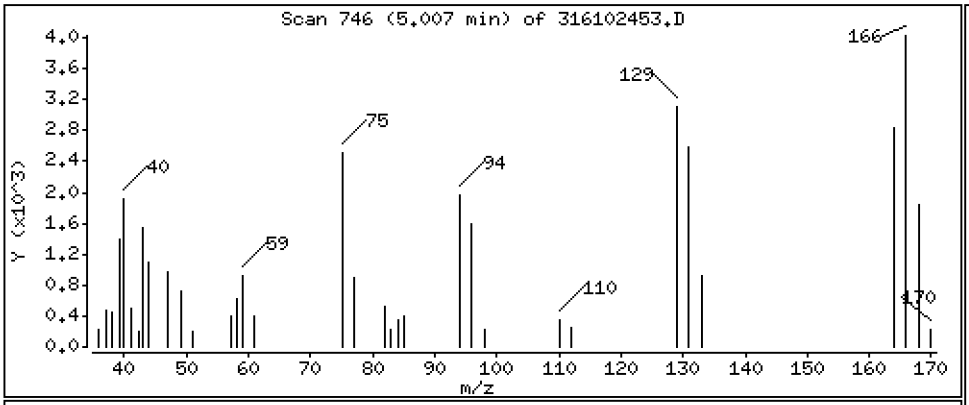
Client ID: Instrument: ms03.i

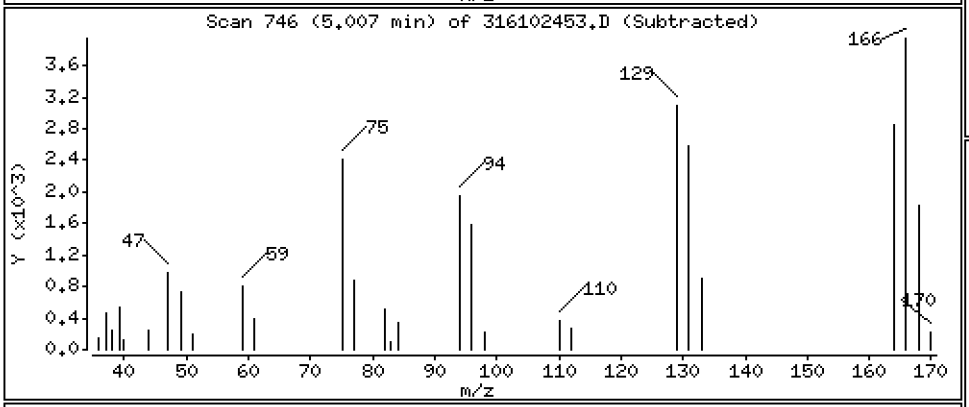
Sample Info: VSTD00.5;;1;1;8;;;

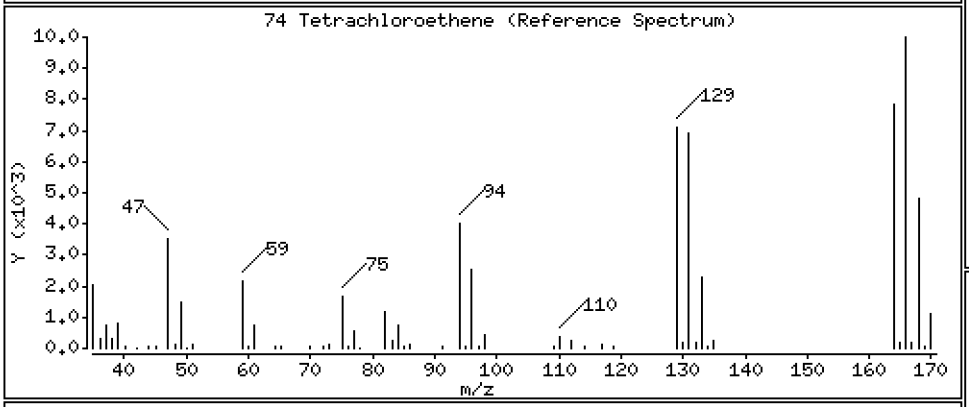
Purge Volume: 5.0 Operator: CJG

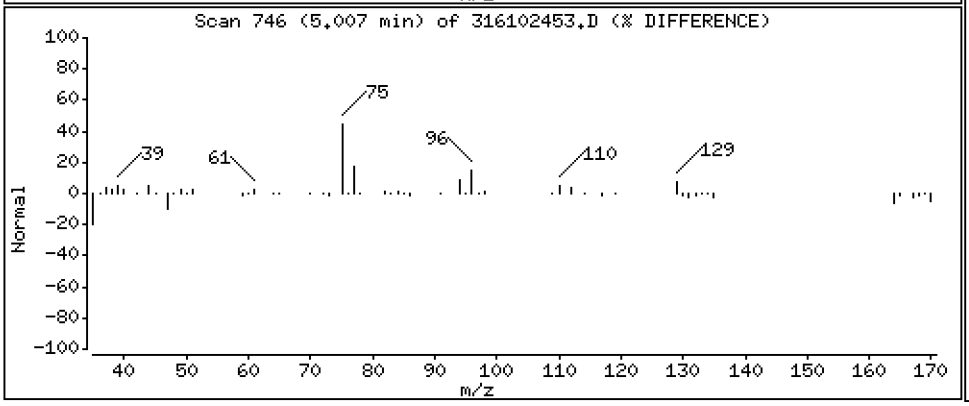
Column phase: DB-VRX Column diameter: 0.25

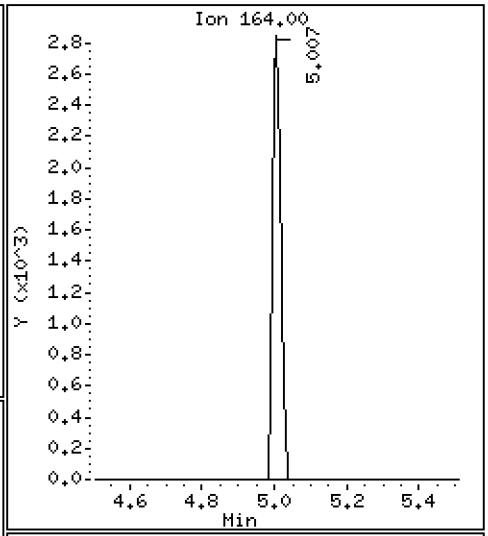
74 Tetrachloroethene Concentration: 0.841054 ug/L

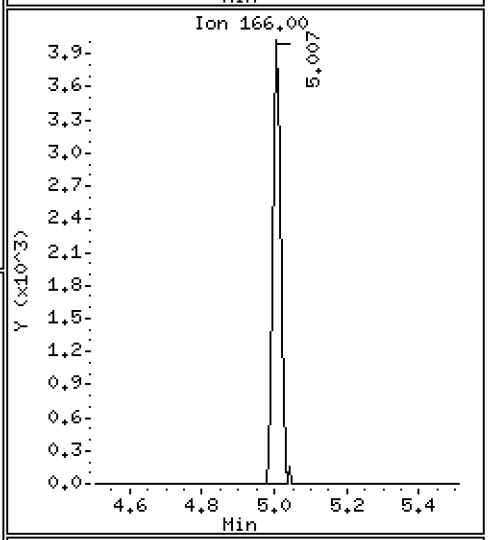


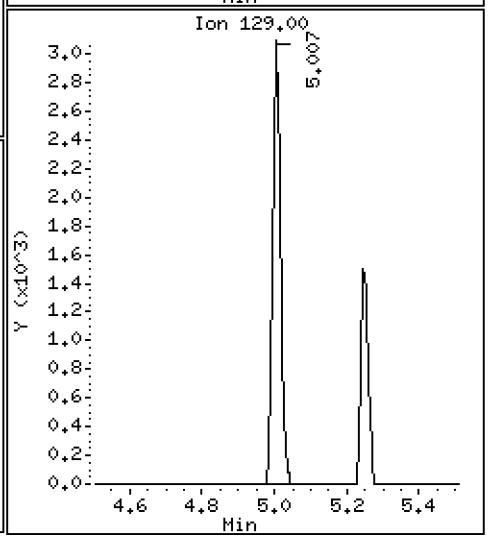












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 79

Date : 24-OCT-2016 23:25

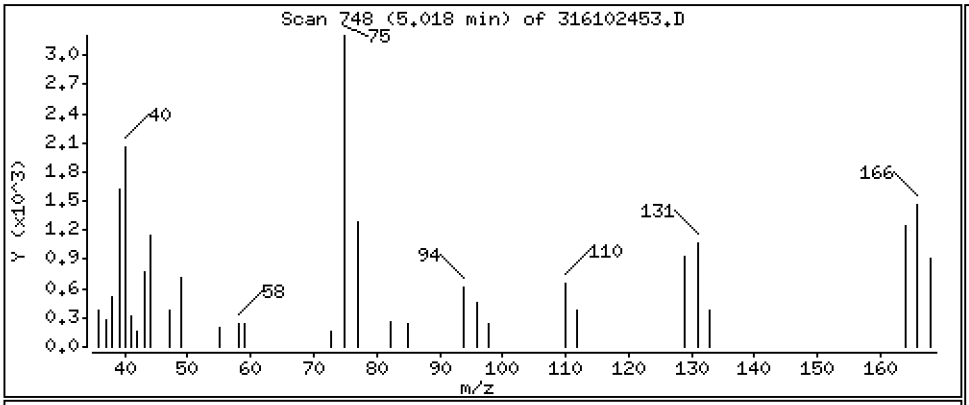
Client ID: Instrument: ms03.i

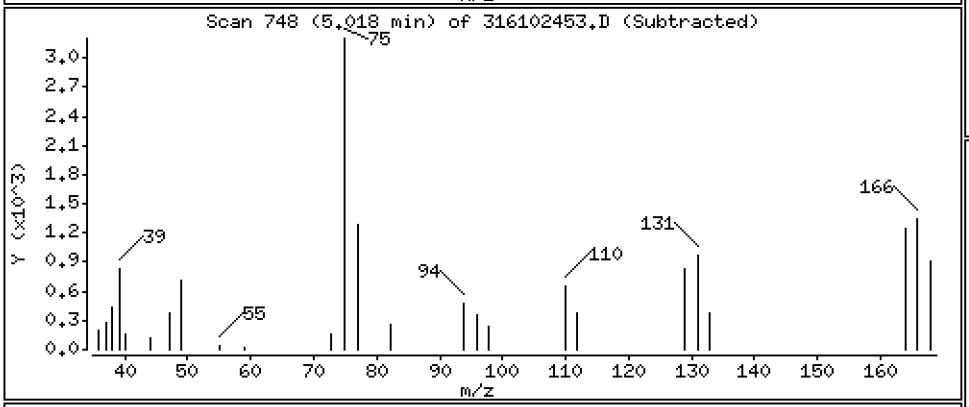
Sample Info: VSTD00.5;;1;1;8;;;

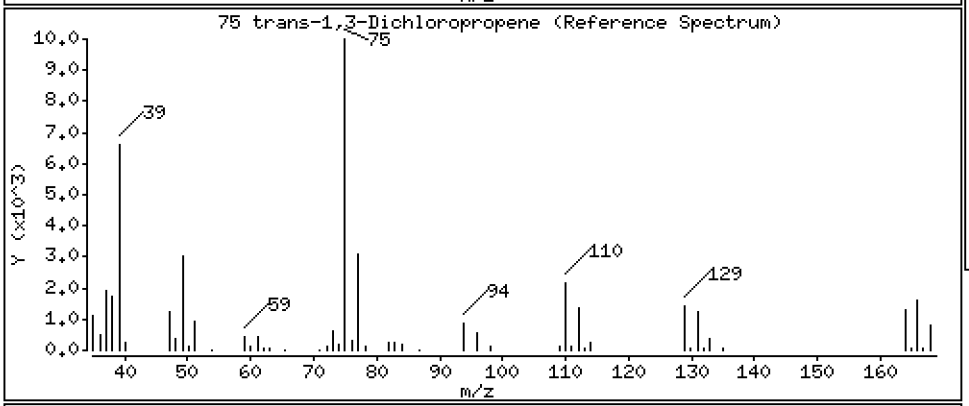
Purge Volume: 5.0 Operator: CJG

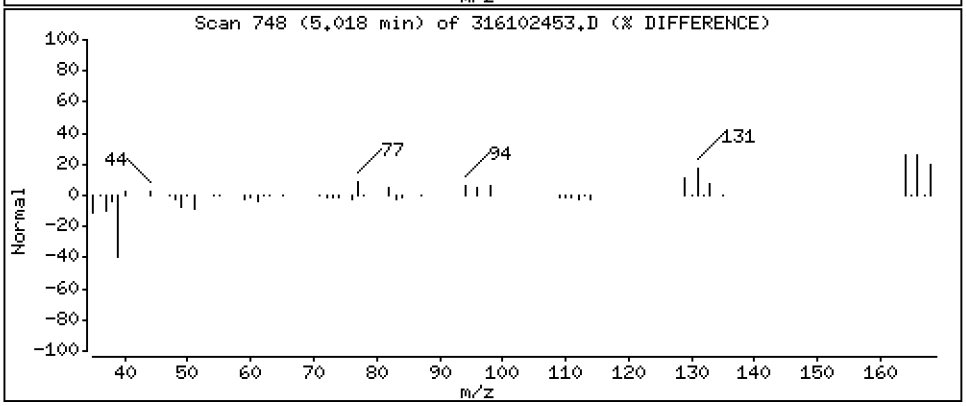
Column phase: DB-VRX Column diameter: 0.25

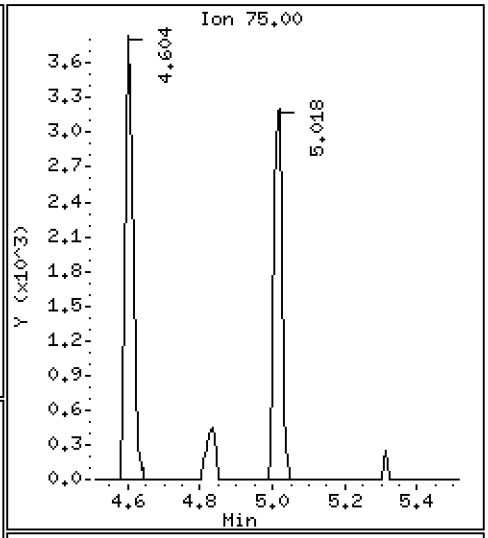
75 trans-1,3-Dichloropropene Concentration: 0.433867 ug/L

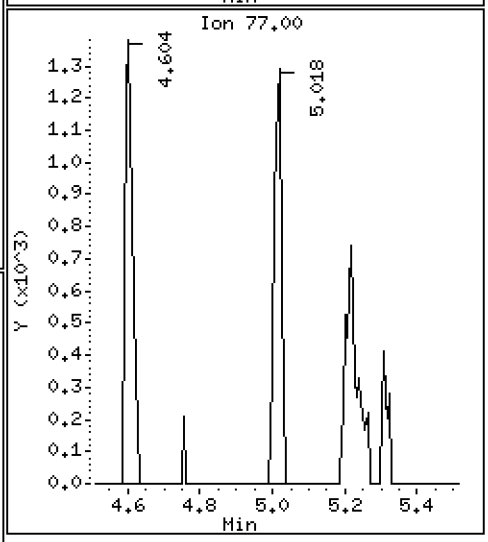












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 80

Date : 24-OCT-2016 23:25

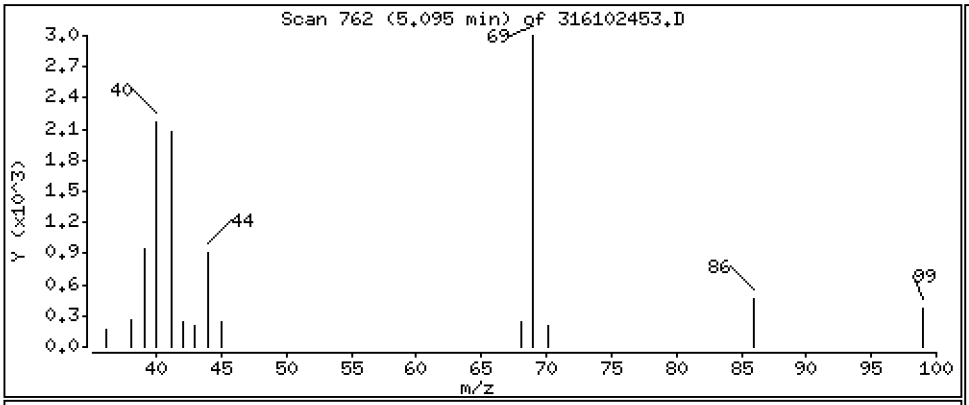
Client ID: Instrument: ms03.i

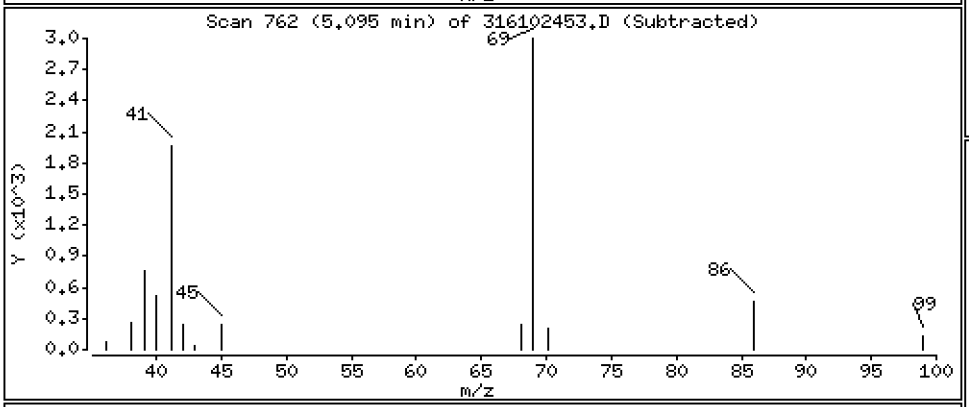
Sample Info: VSTD00.5;;1;1;8;;;

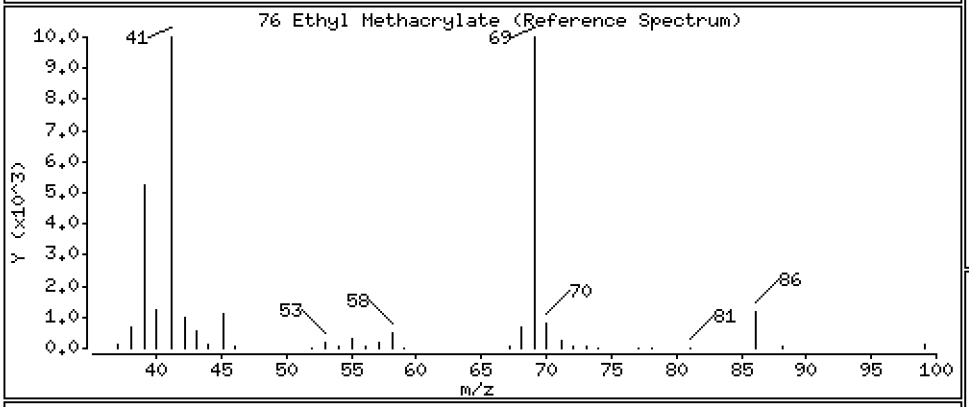
Purge Volume: 5.0 Operator: CJG

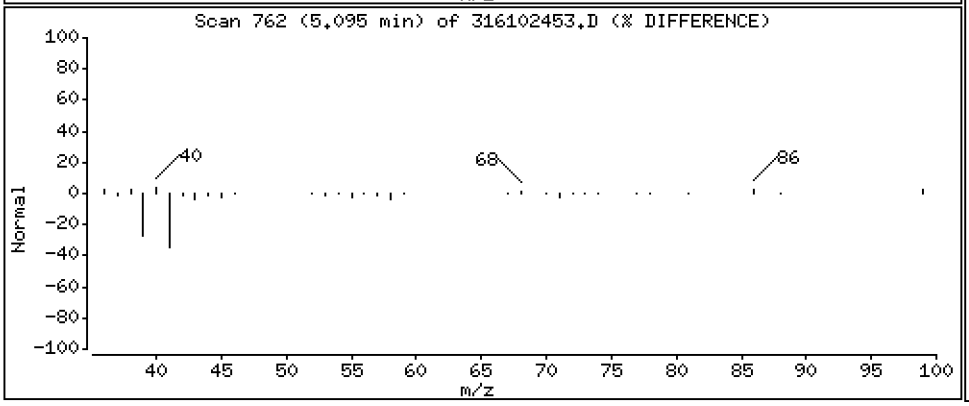
Column phase: DB-VRX Column diameter: 0.25

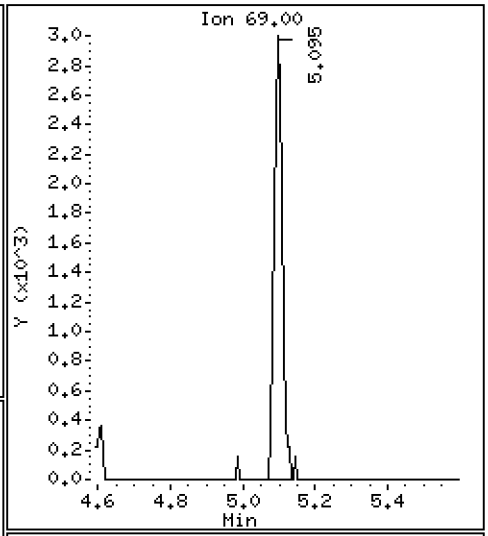
76 Ethyl Methacrylate Concentration: 0.437379 ug/L

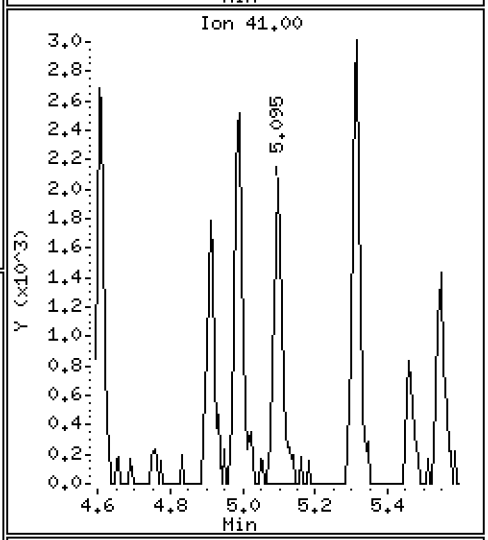


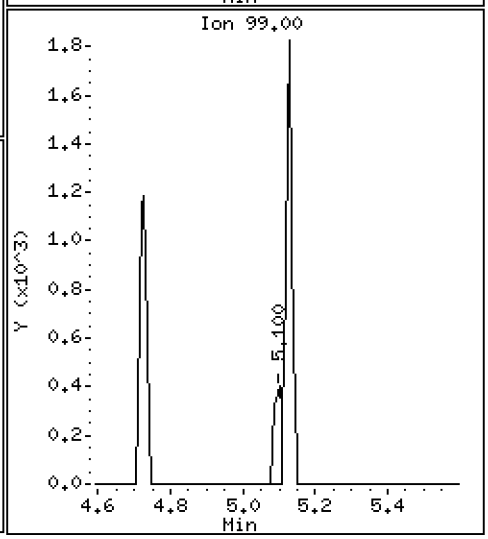












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 81

Date : 24-OCT-2016 23:25

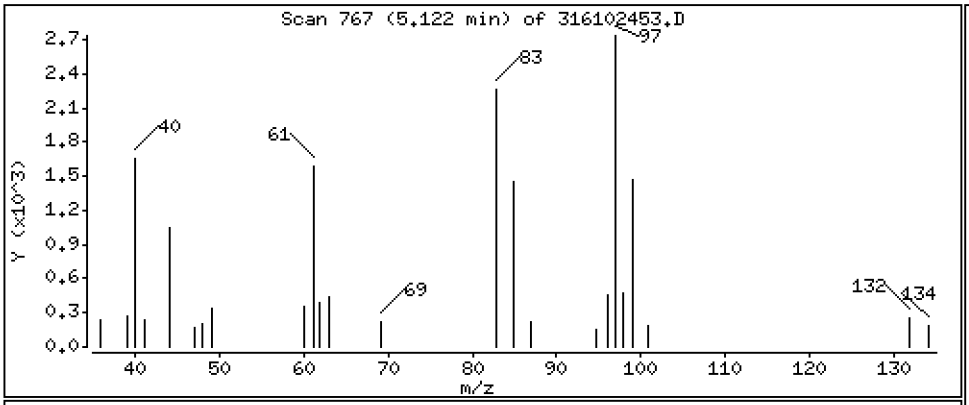
Client ID: Instrument: ms03.i

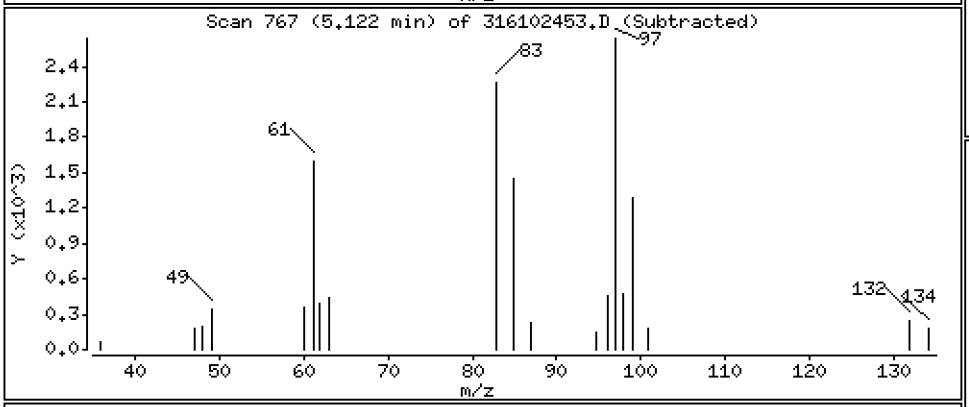
Sample Info: VSTD00.5;;1;1;8;;;

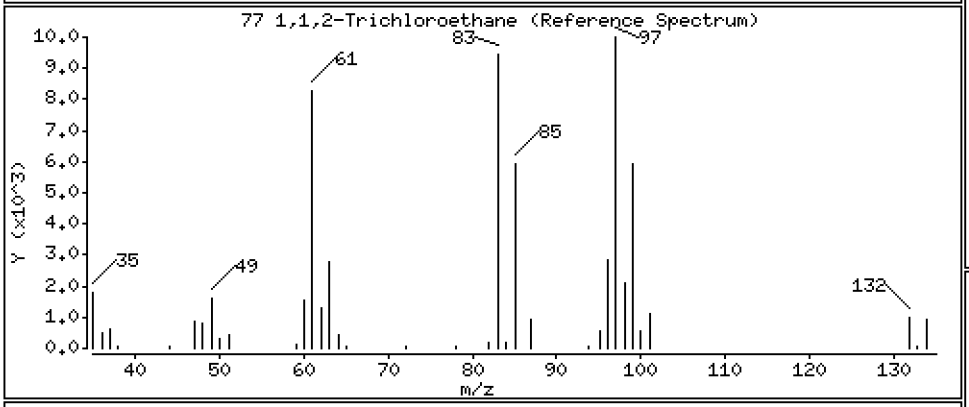
Purge Volume: 5.0 Operator: CJG

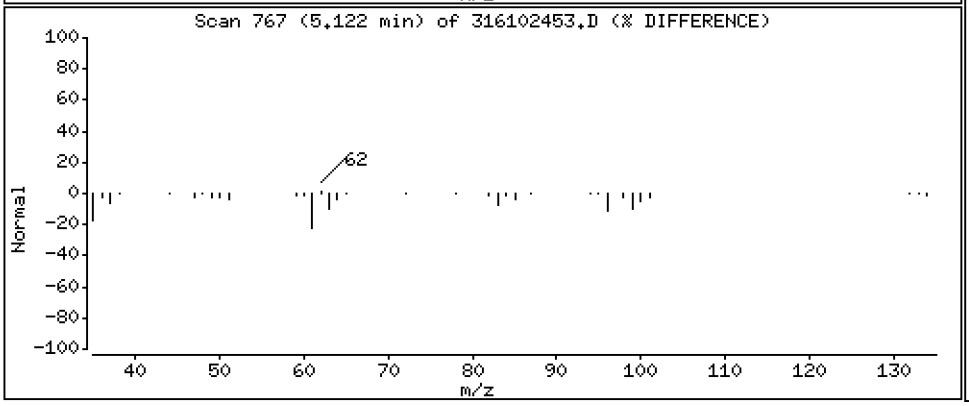
Column phase: DB-VRX Column diameter: 0.25

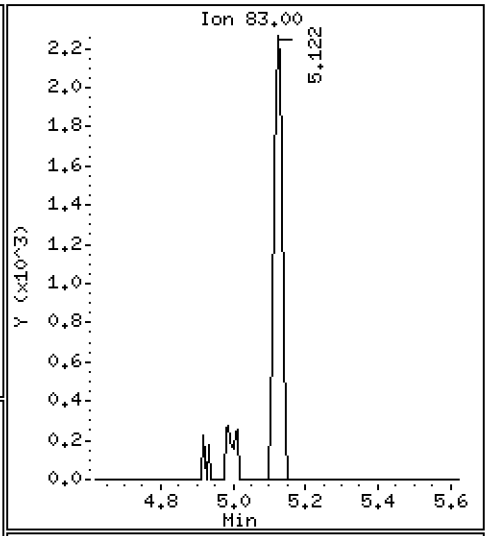
77 1,1,2-Trichloroethane Concentration: 0.592134 ug/L

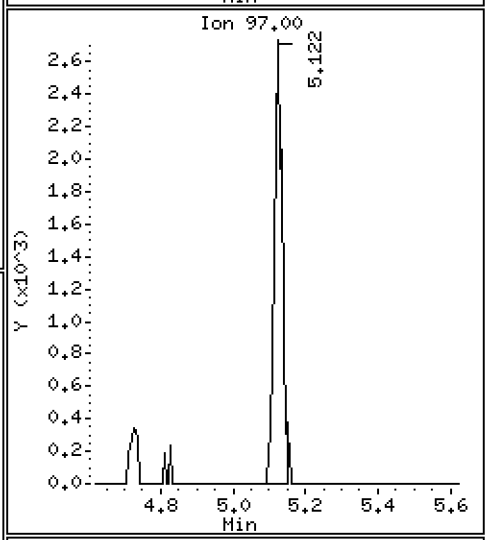


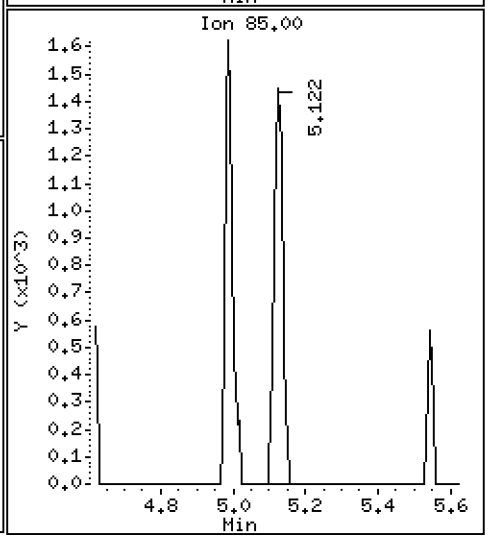












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 82

Date : 24-OCT-2016 23:25

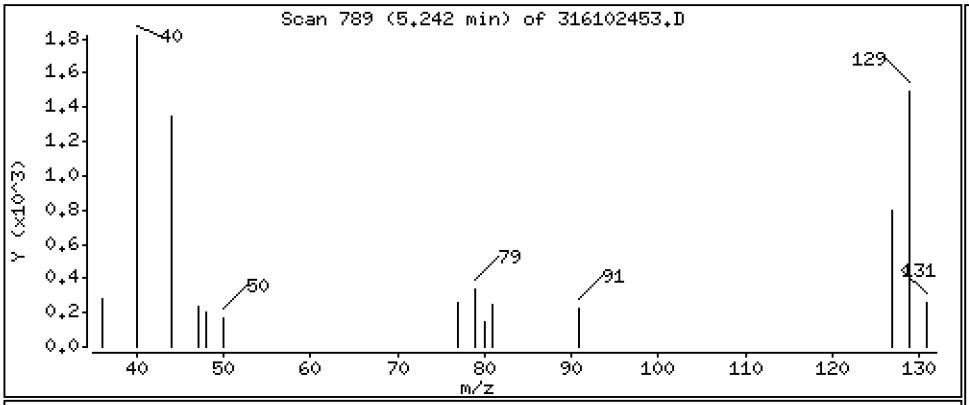
Client ID: Instrument: ms03.i

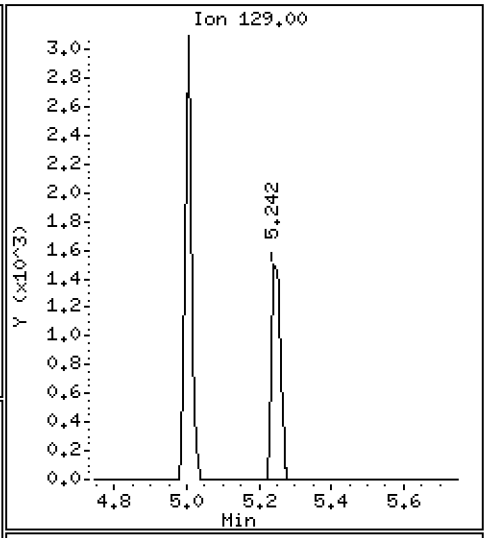
Sample Info: VSTD00.5;;1;1;8;;;

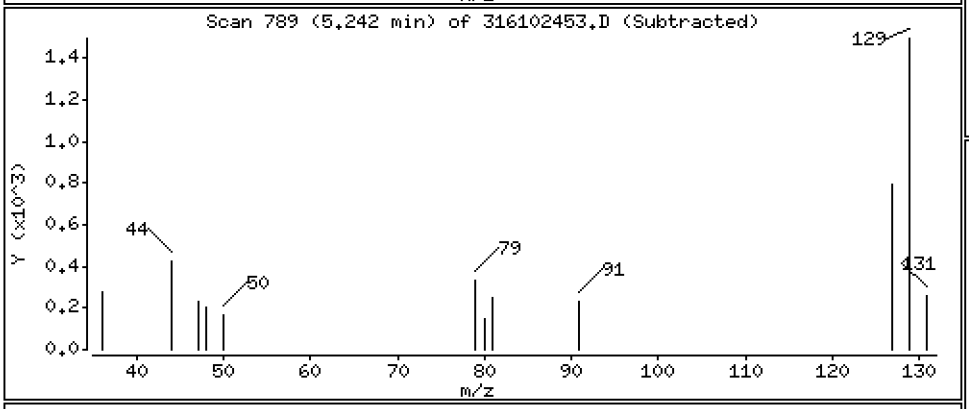
Purge Volume: 5.0 Operator: CJG

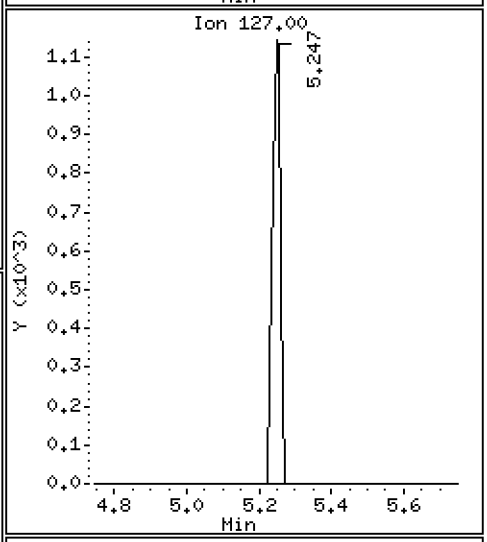
Column phase: DB-VRX Column diameter: 0.25

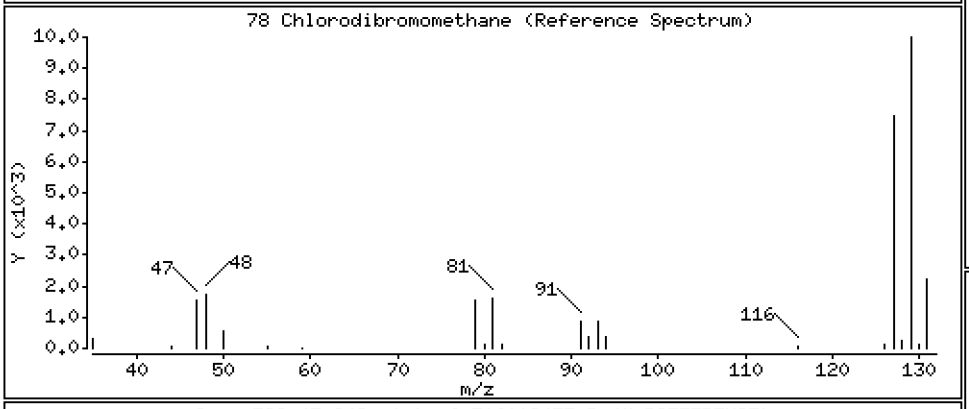
78 Chlorodibromomethane Concentration: 0.422849 ug/L

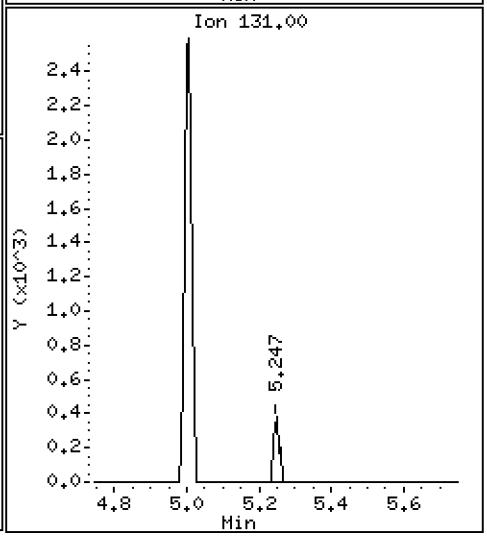


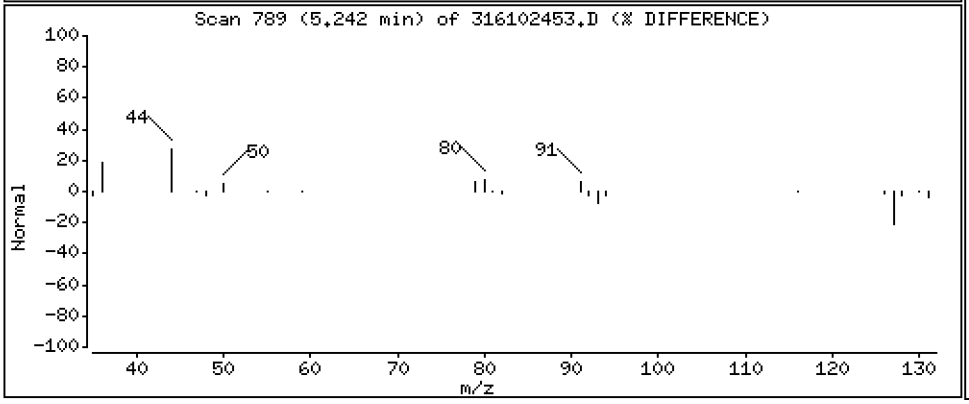












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 83

Date : 24-OCT-2016 23:25

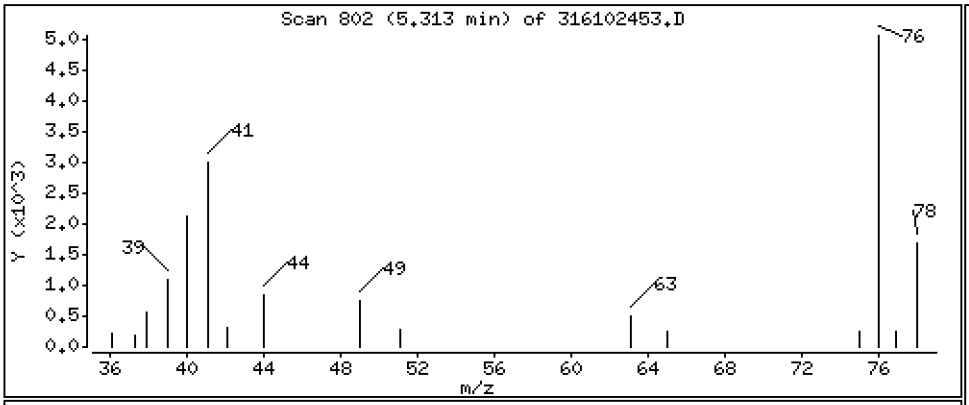
Client ID: Instrument: ms03.i

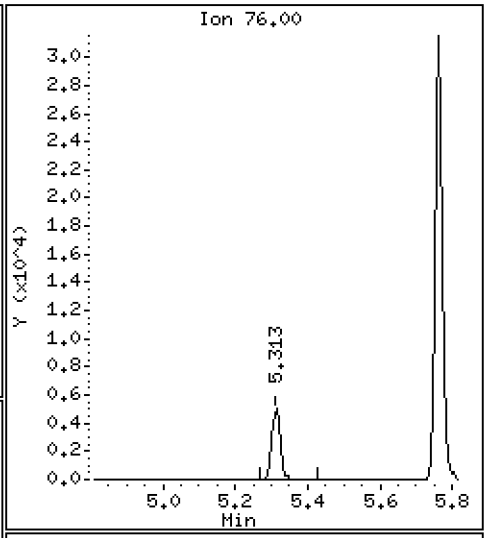
Sample Info: VSTD00.5;;1;1;8;;;

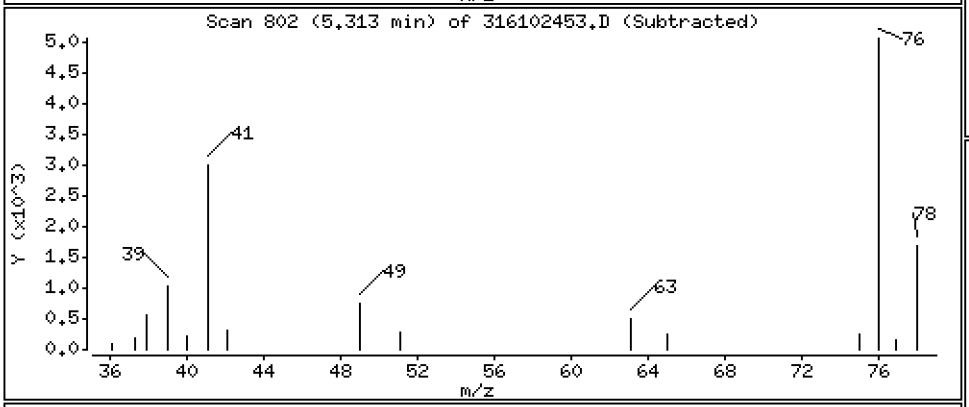
Purge Volume: 5.0 Operator: CJG

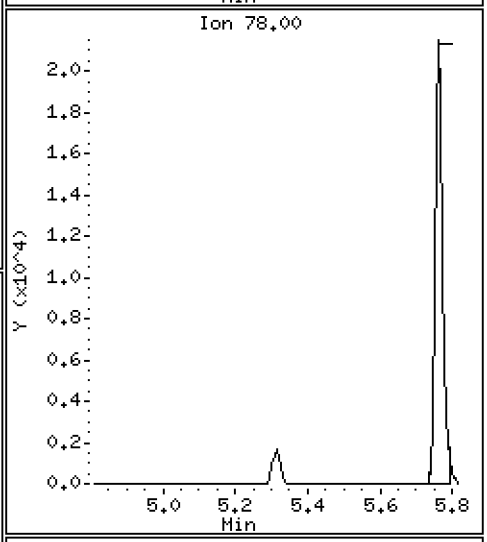
Column phase: DB-VRX Column diameter: 0.25

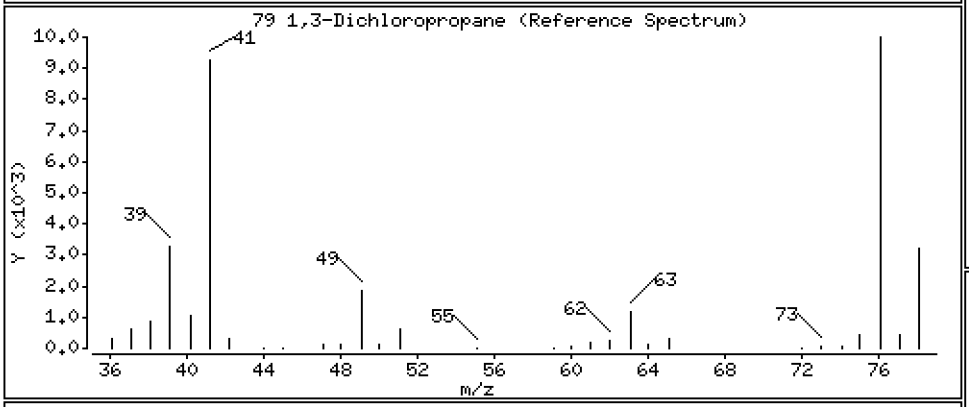
79 1,3-Dichloropropane Concentration: 0.621572 ug/L

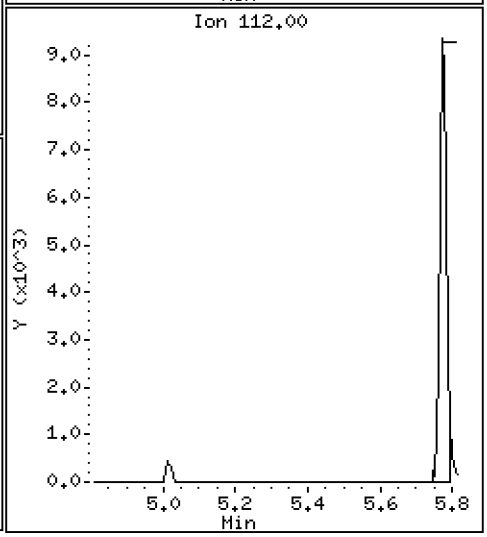


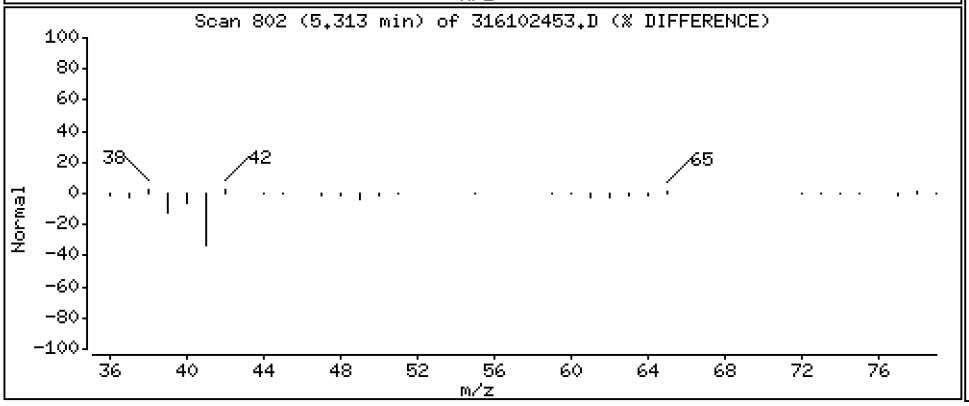












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 84

Date : 24-OCT-2016 23:25

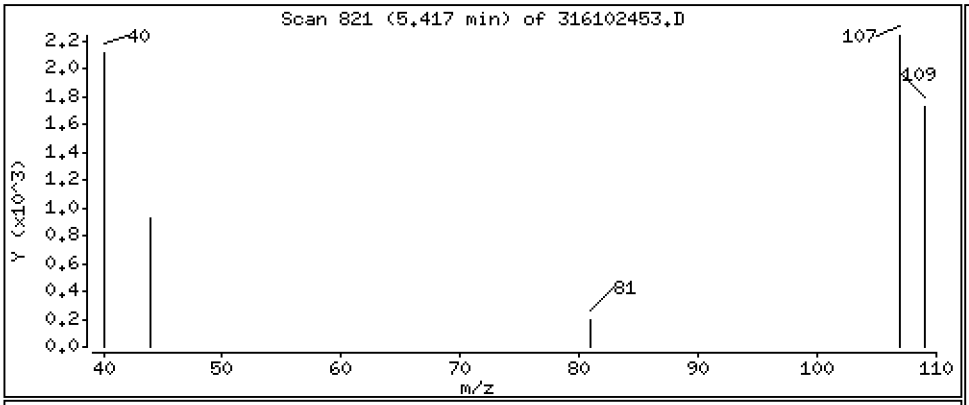
Client ID: Instrument: ms03.i

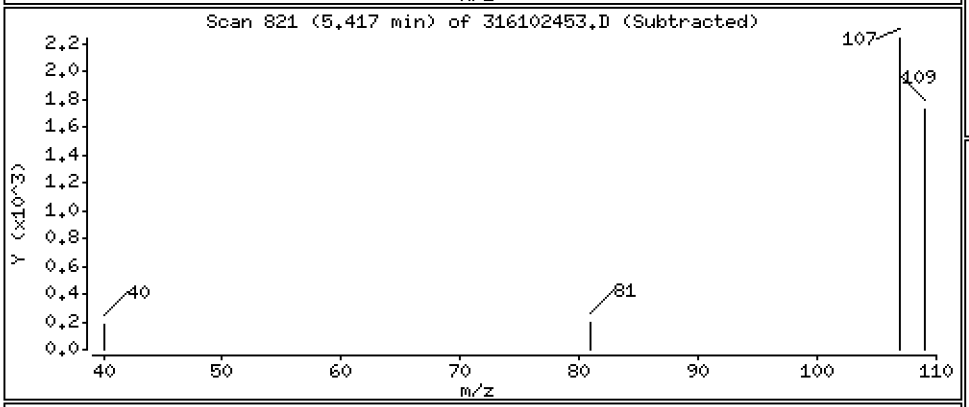
Sample Info: VSTD00.5;;1;1;8;;;

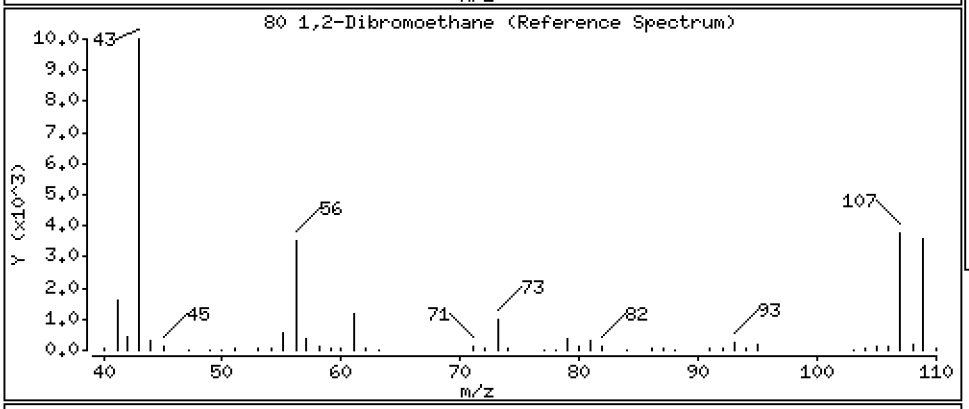
Purge Volume: 5.0 Operator: CJG

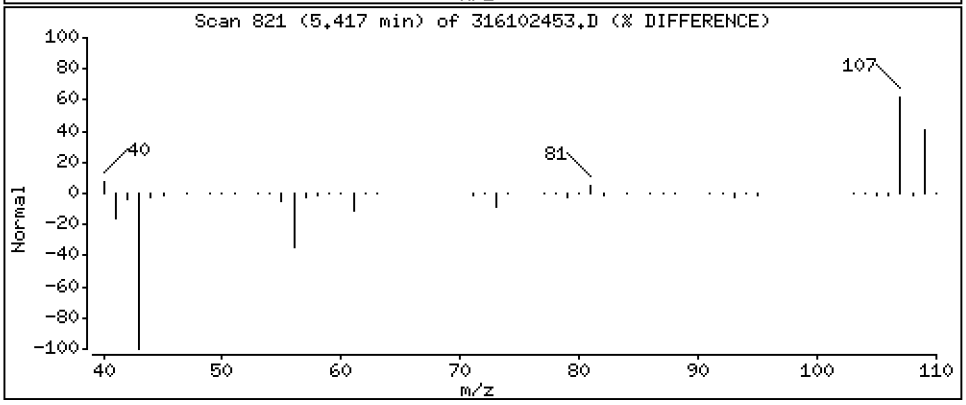
Column phase: DB-VRX Column diameter: 0.25

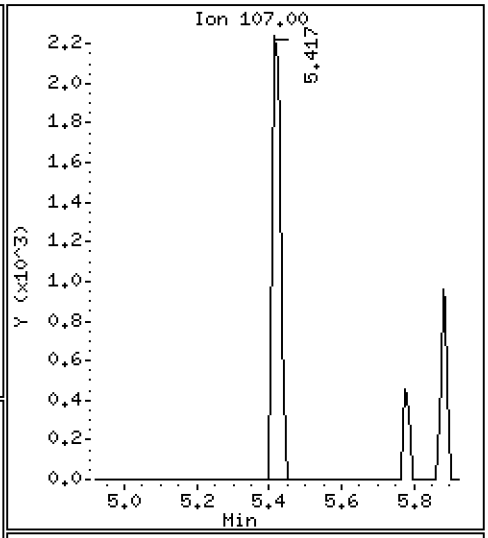
80 1,2-Dibromoethane Concentration: 0.567809 ug/L

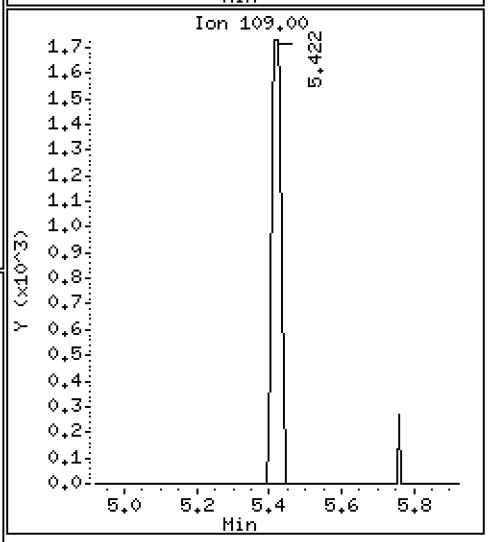












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 85

Date : 24-OCT-2016 23:25

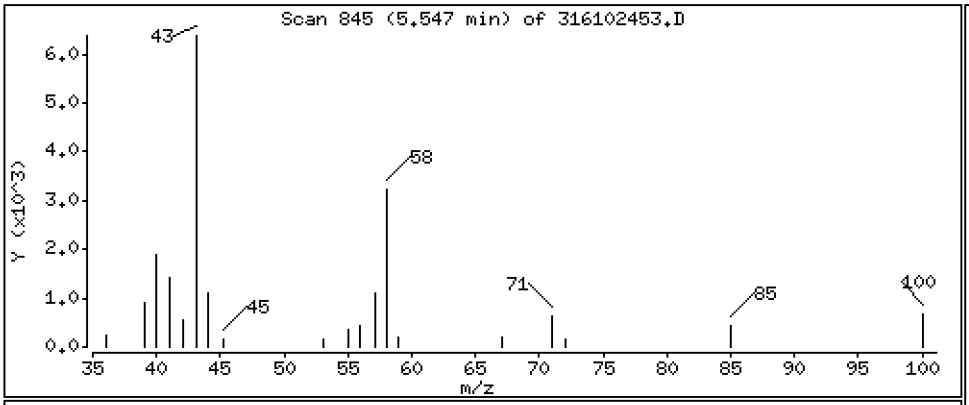
Client ID: Instrument: ms03.i

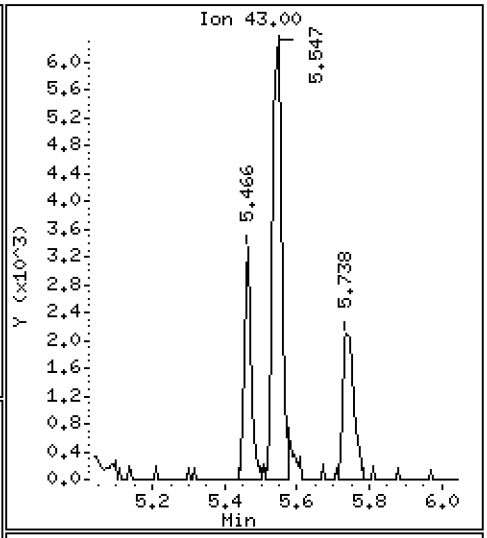
Sample Info: VSTD00.5;;1;1;8;;;

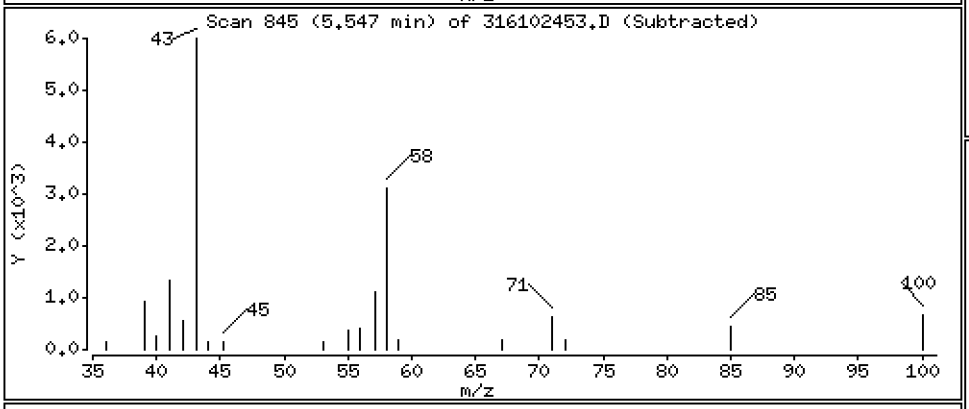
Purge Volume: 5.0 Operator: CJG

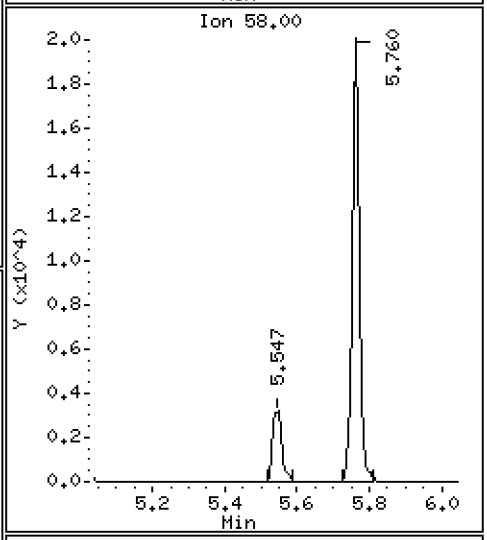
Column phase: DB-VRX Column diameter: 0.25

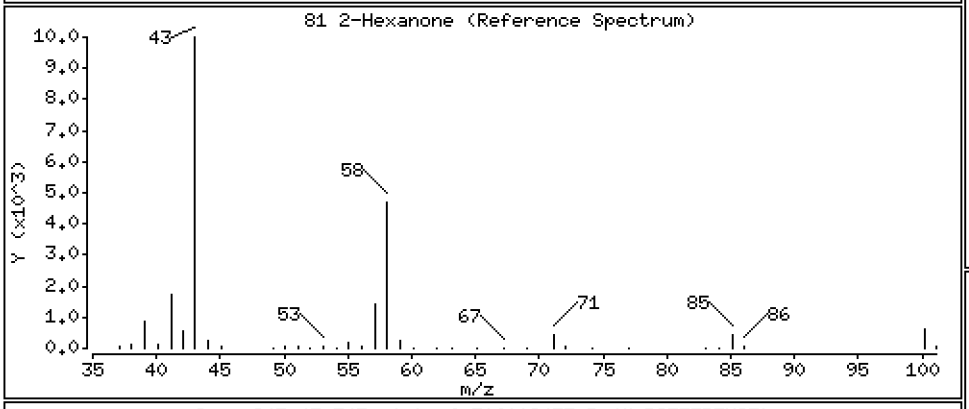
81 2-Hexanone Concentration: 2.13883 ug/L

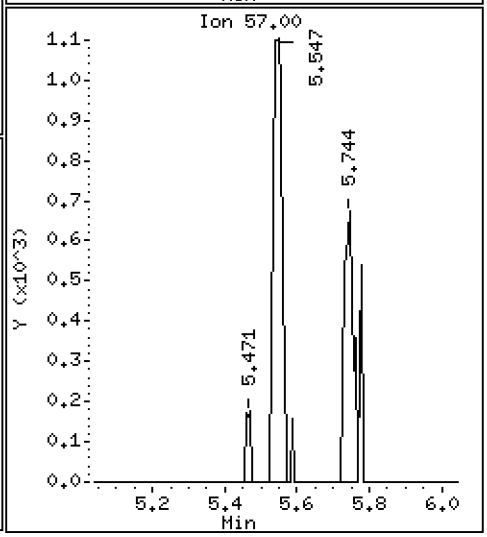


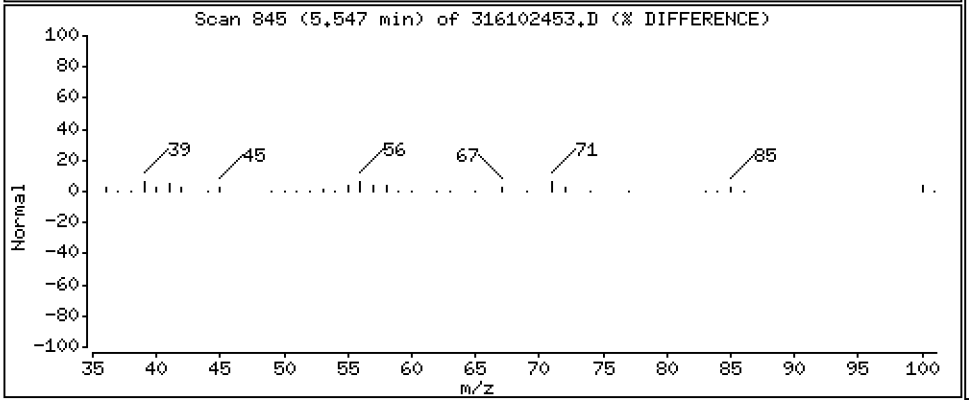












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 86

Date : 24-OCT-2016 23:25

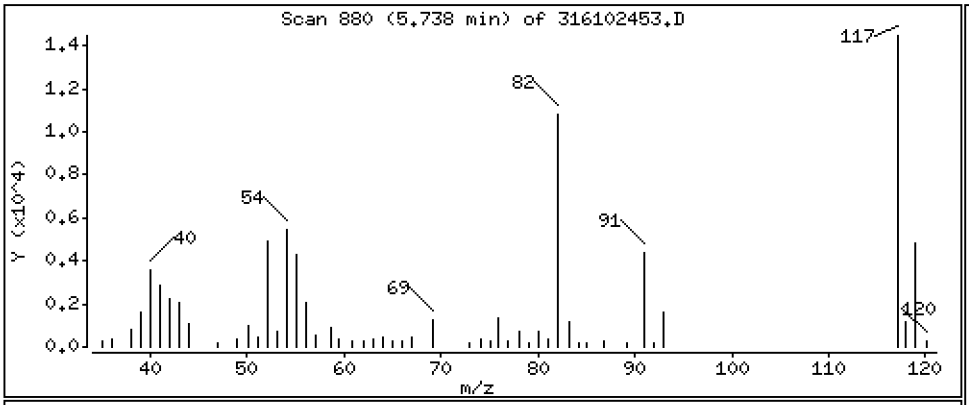
Client ID: Instrument: ms03.i

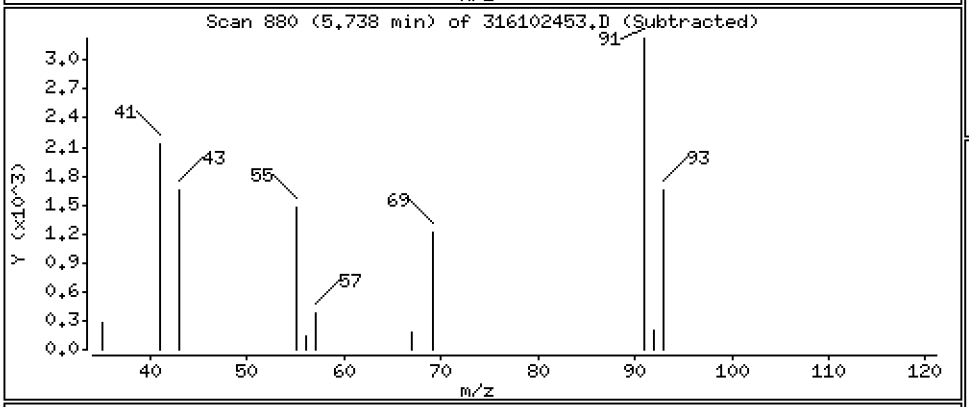
Sample Info: VSTD00.5;;1;1;8;;;

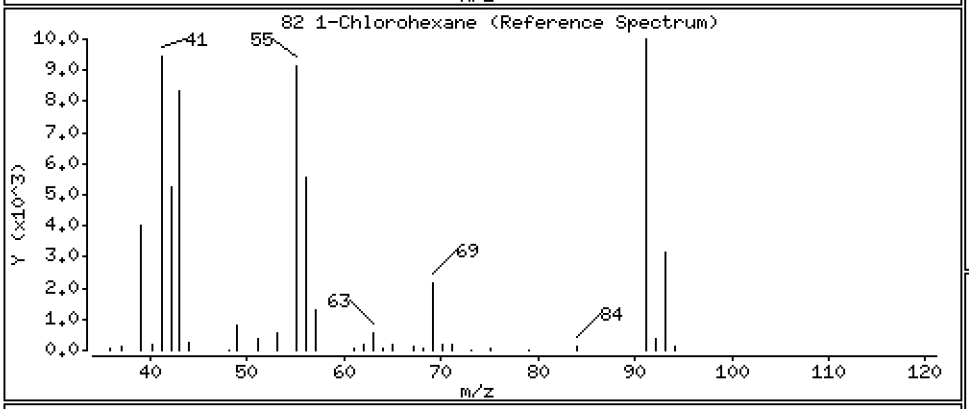
Purge Volume: 5.0 Operator: CJG

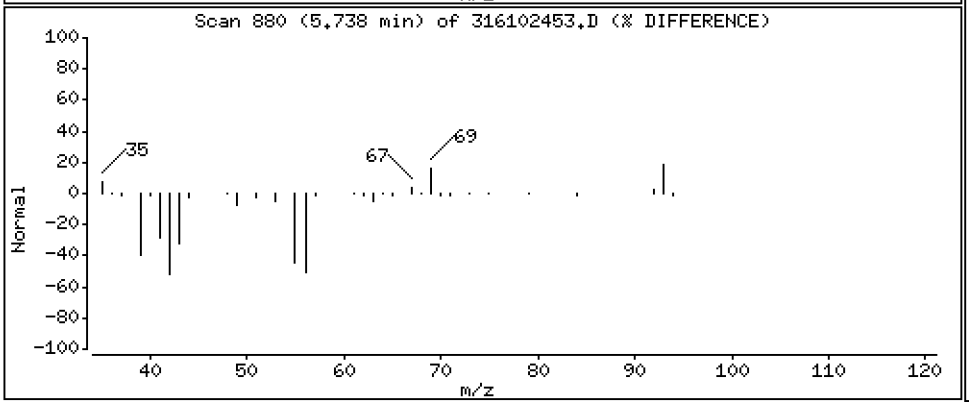
Column phase: DB-VRX Column diameter: 0.25

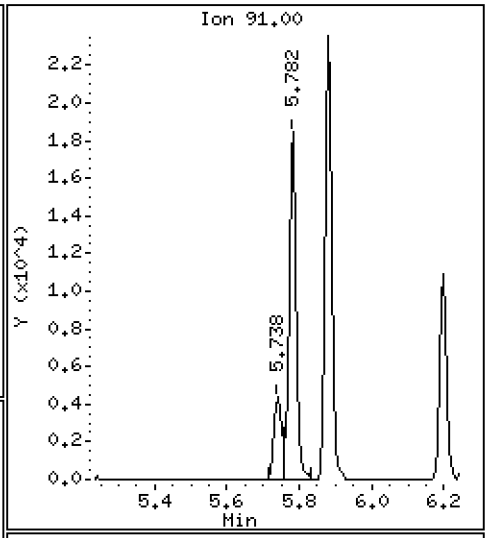
82 1-Chlorohexane Concentration: 0.621446 ug/L

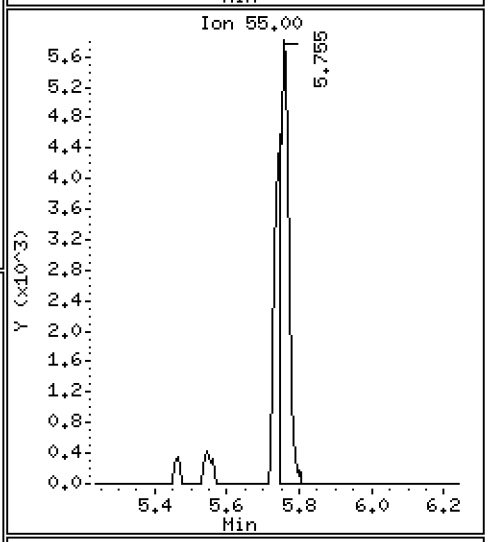


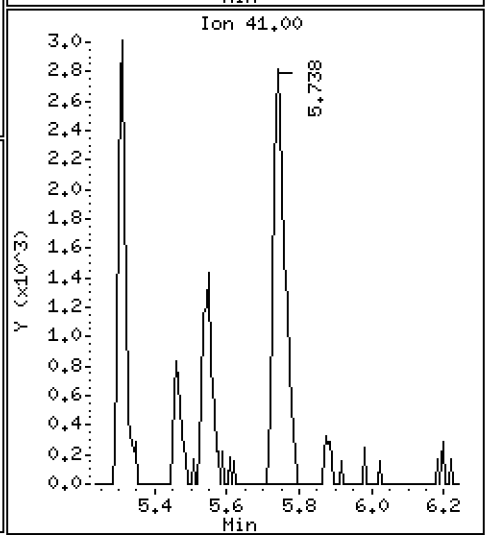












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 87

Date : 24-OCT-2016 23:25

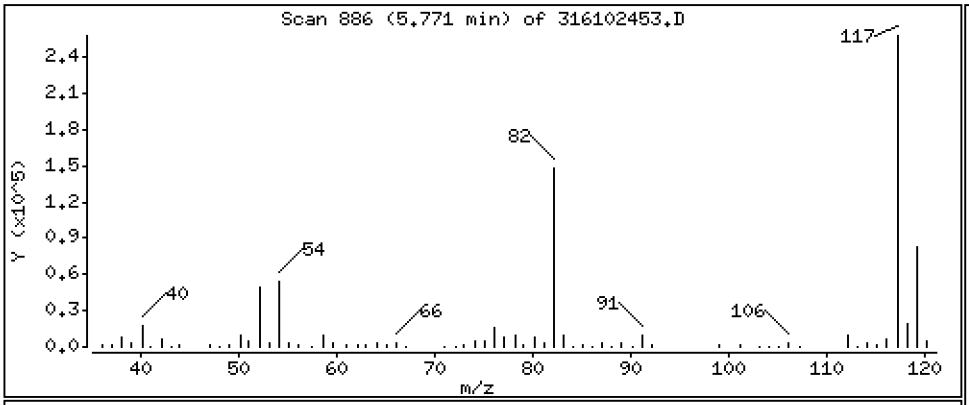
Client ID: Instrument: ms03.i

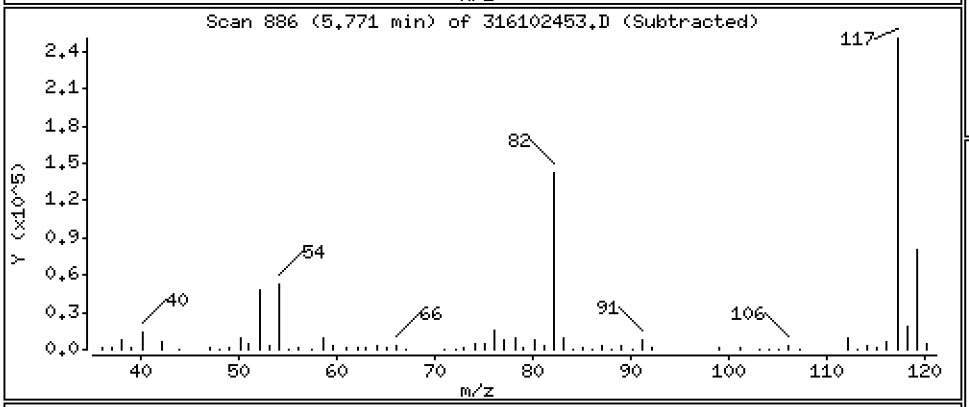
Sample Info: VSTD00.5;;1;1;8;;;

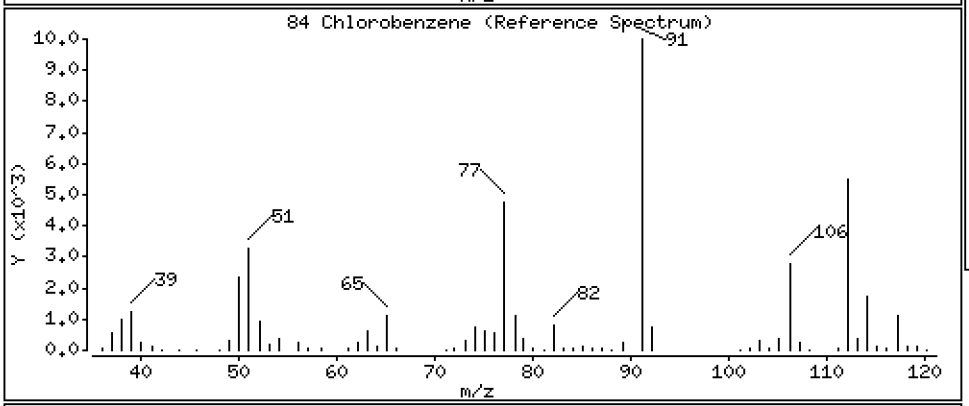
Purge Volume: 5.0 Operator: CJG

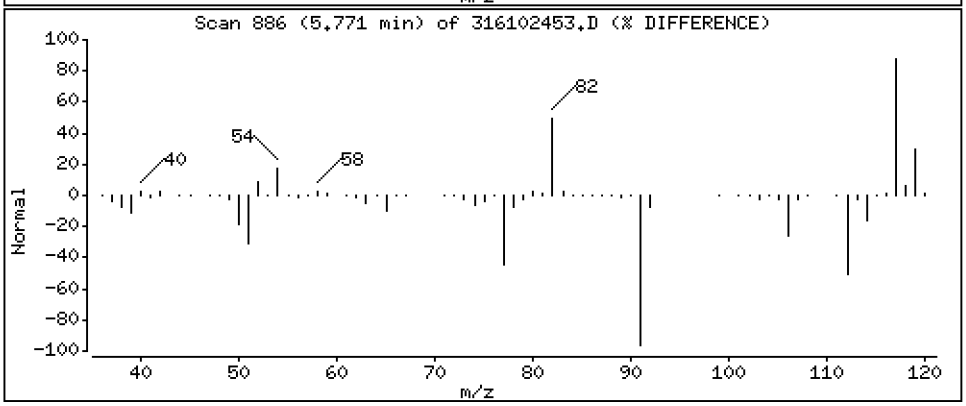
Column phase: DB-VRX Column diameter: 0.25

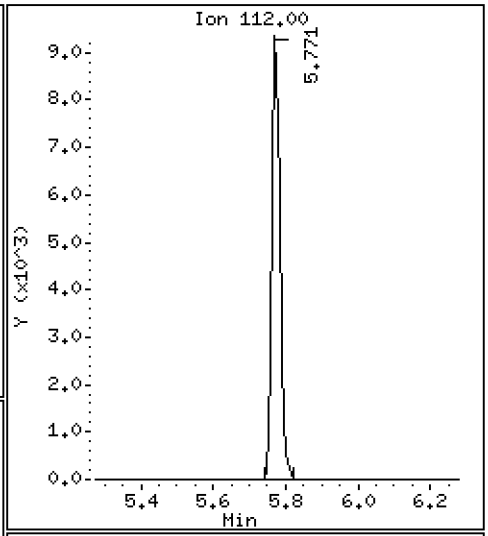
84 Chlorobenzene Concentration: 0.727357 ug/L

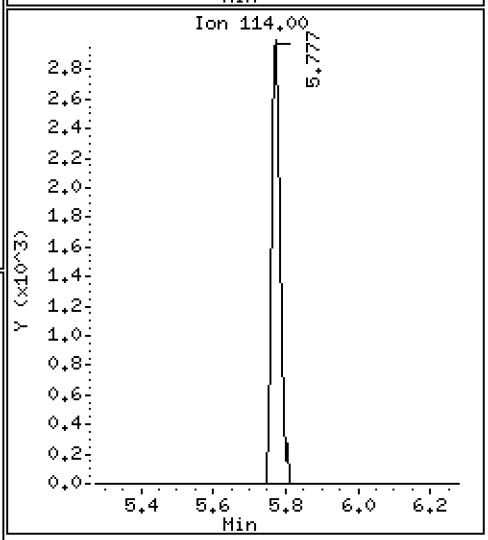












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 88

Date : 24-OCT-2016 23:25

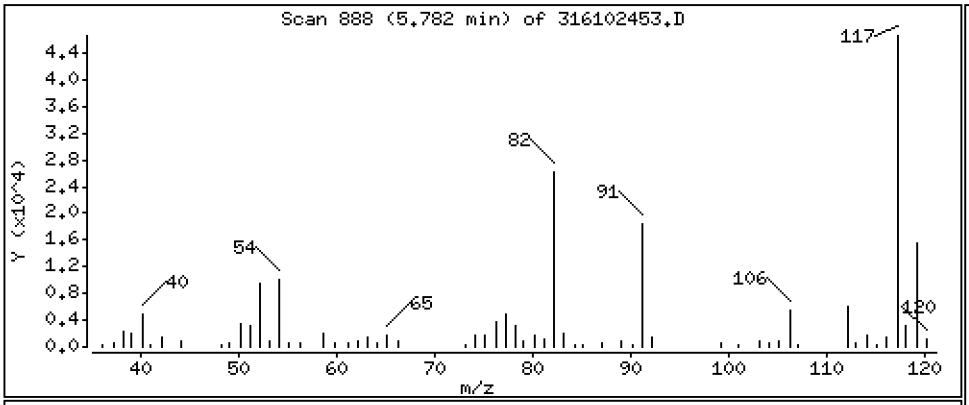
Client ID: Instrument: ms03.i

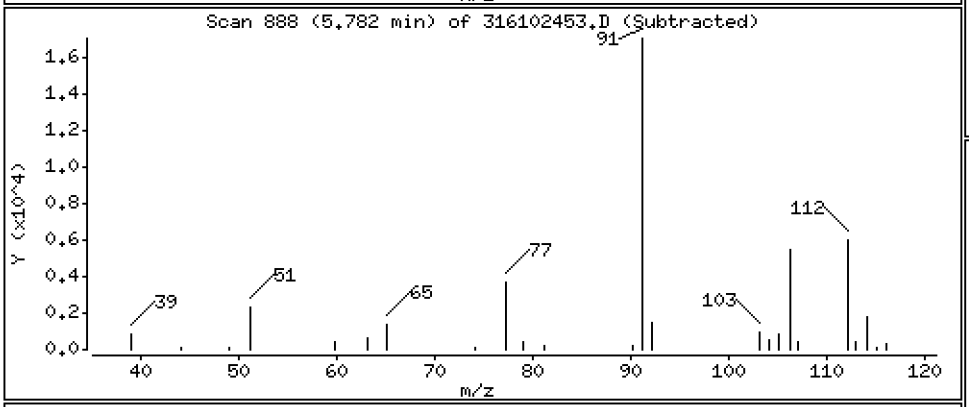
Sample Info: VSTD00.5;;1;1;8;;;

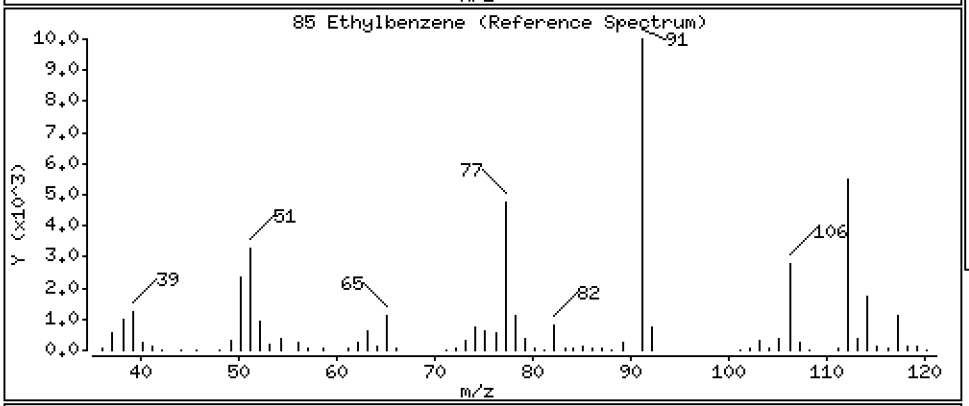
Purge Volume: 5.0 Operator: CJG

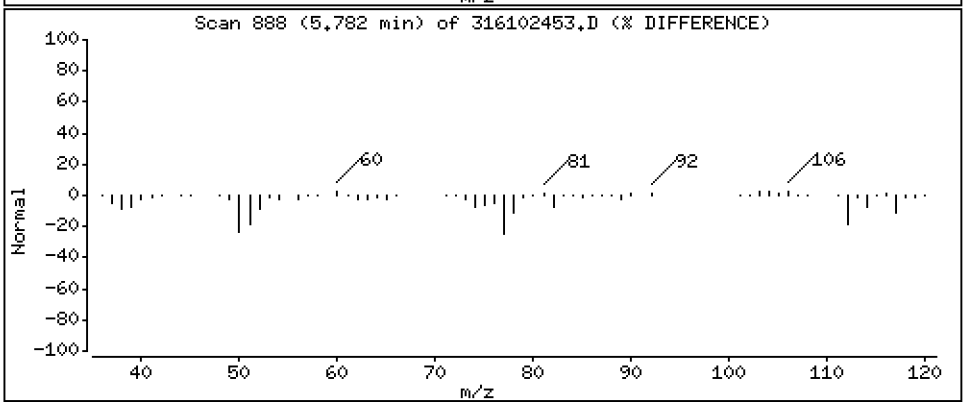
Column phase: DB-VRX Column diameter: 0.25

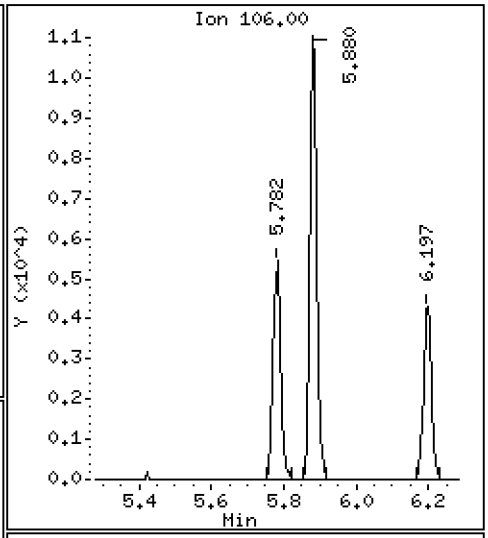
85 Ethylbenzene Concentration: 0.694566 ug/L

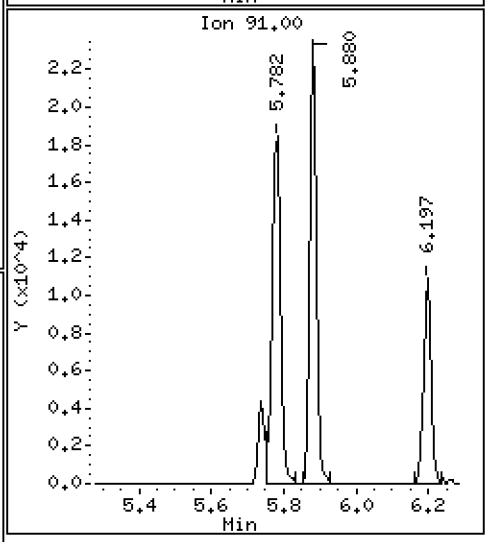












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 89

Date : 24-OCT-2016 23:25

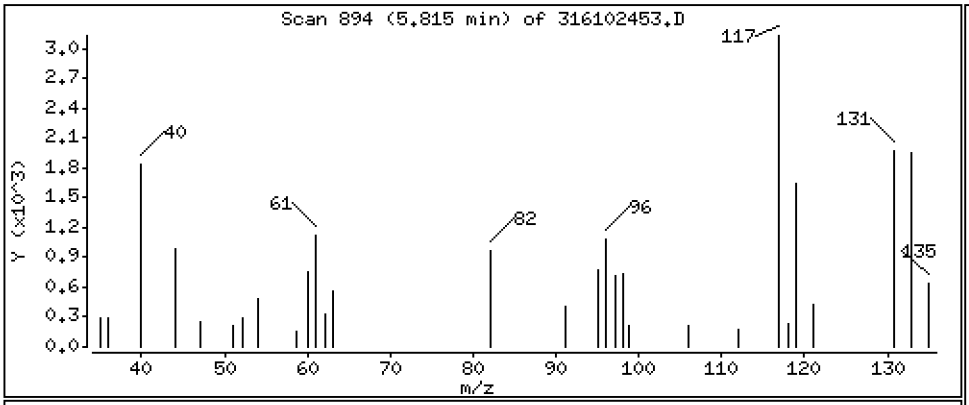
Client ID: Instrument: ms03.i

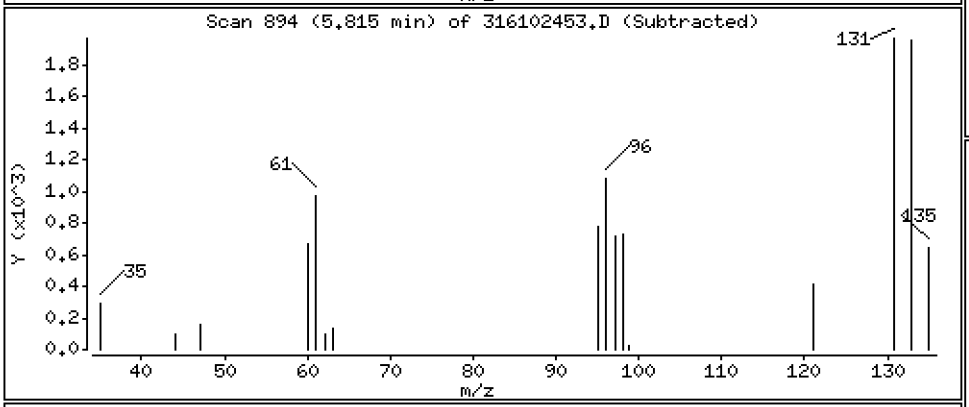
Sample Info: VSTD00.5;;1;1;8;;;

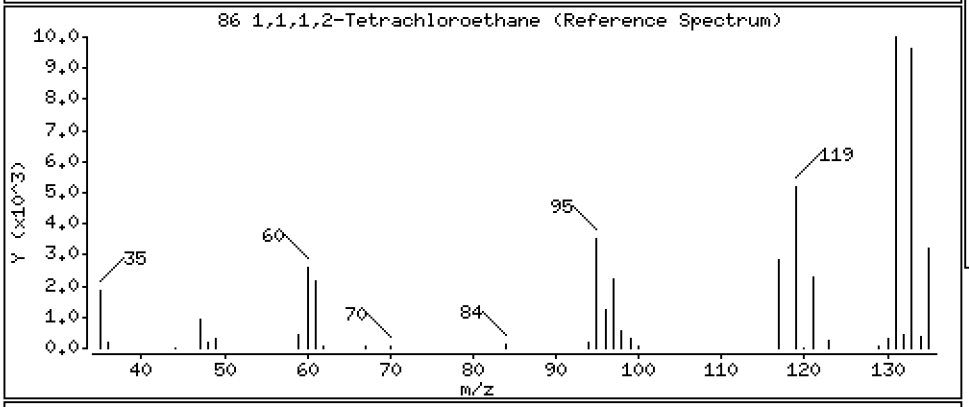
Purge Volume: 5.0 Operator: CJG

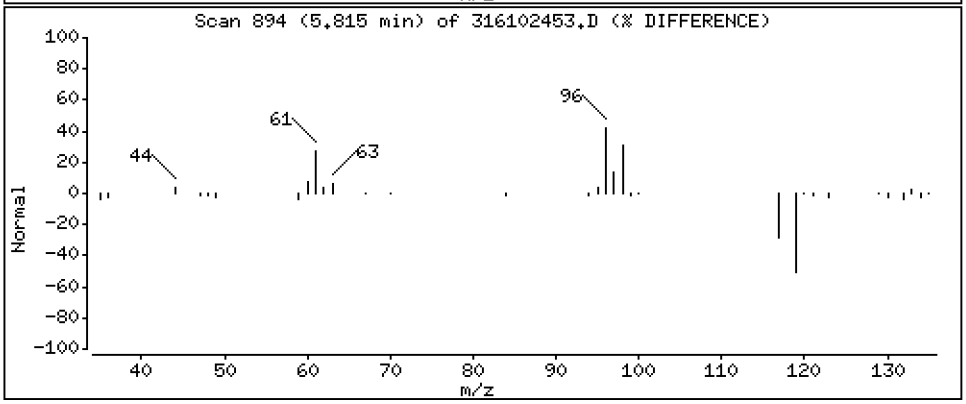
Column phase: DB-VRX Column diameter: 0.25

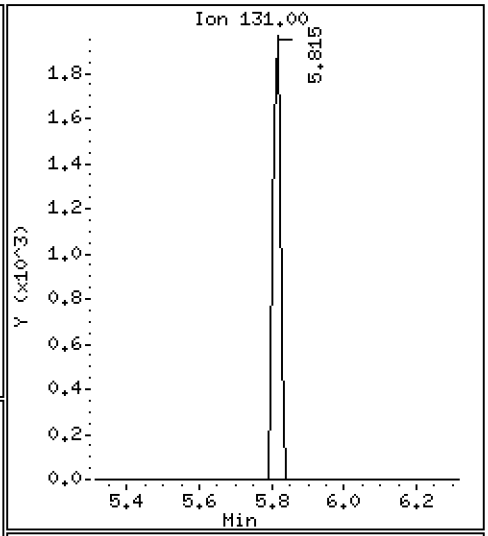
86 1,1,1,2-Tetrachloroethane Concentration: 0.458082 ug/L

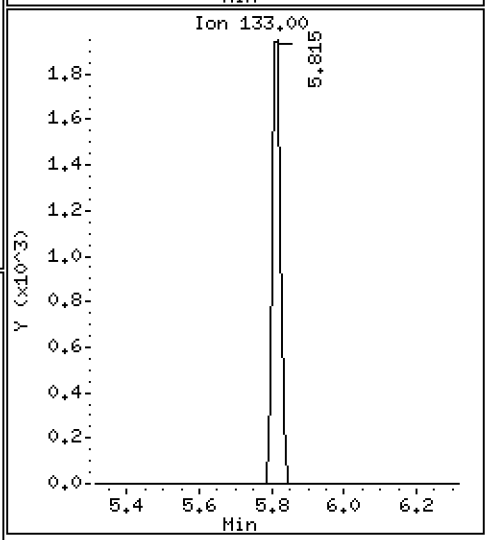












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 90

Date : 24-OCT-2016 23:25

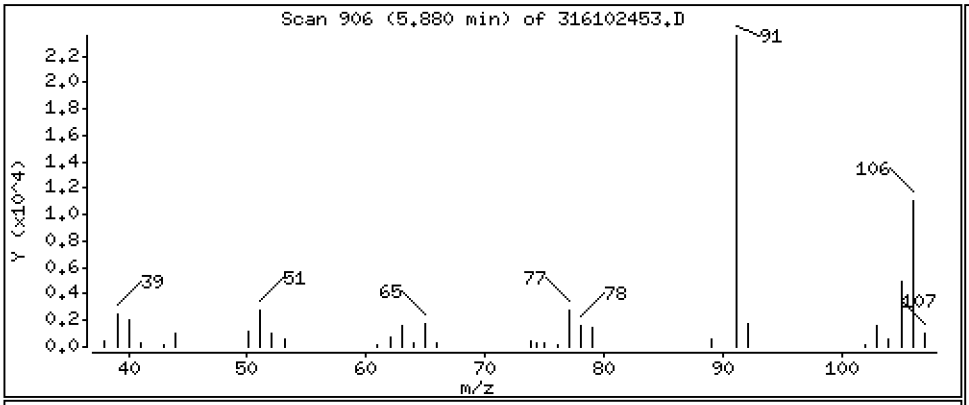
Client ID: Instrument: ms03.i

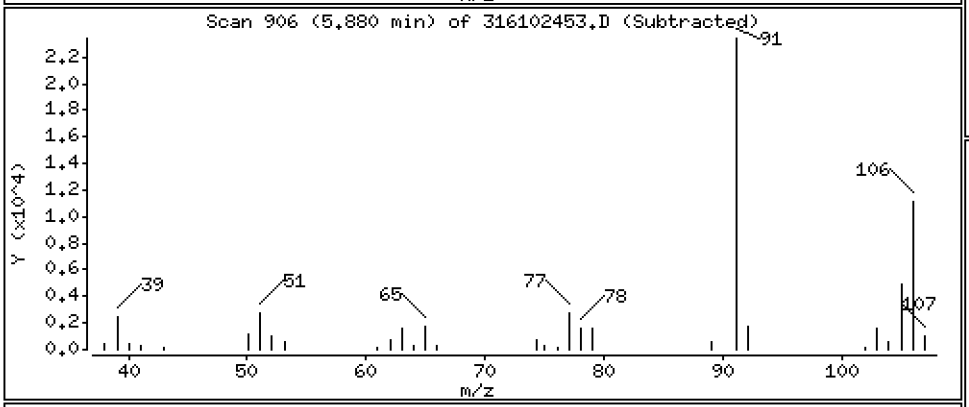
Sample Info: VSTD00.5;;1;1;8;;;

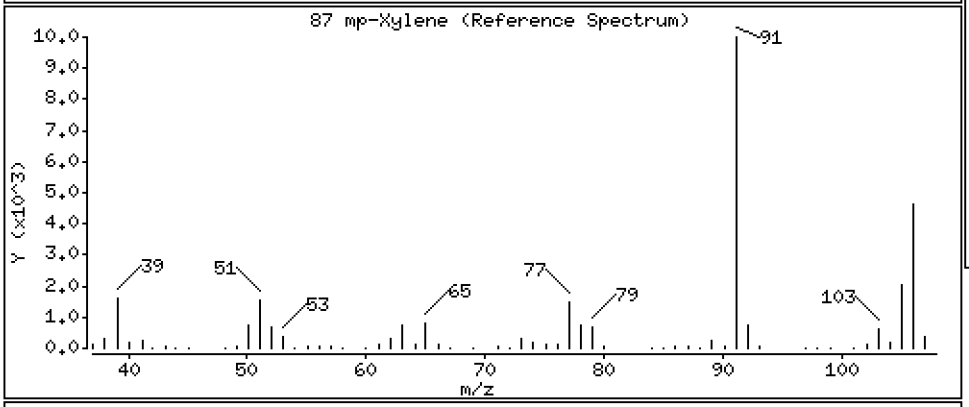
Purge Volume: 5.0 Operator: CJG

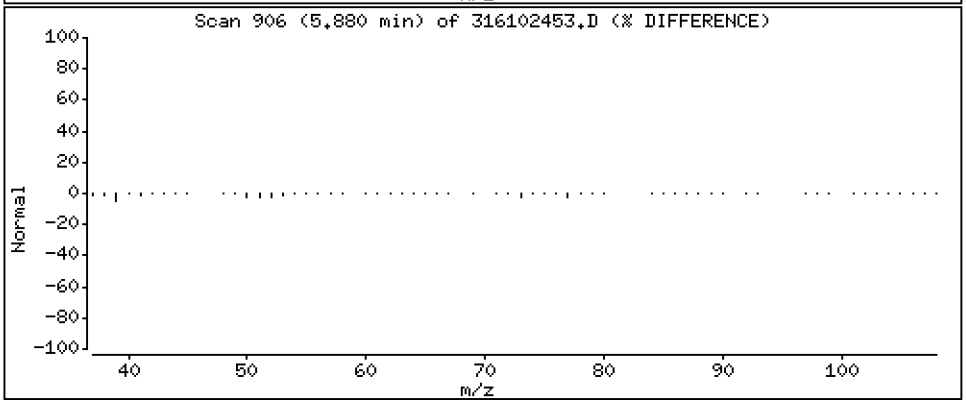
Column phase: DB-VRX Column diameter: 0.25

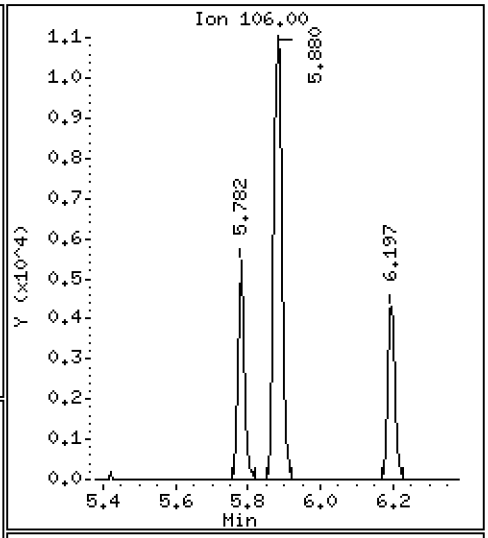
87 mp-Xylene Concentration: 1.27382 ug/L

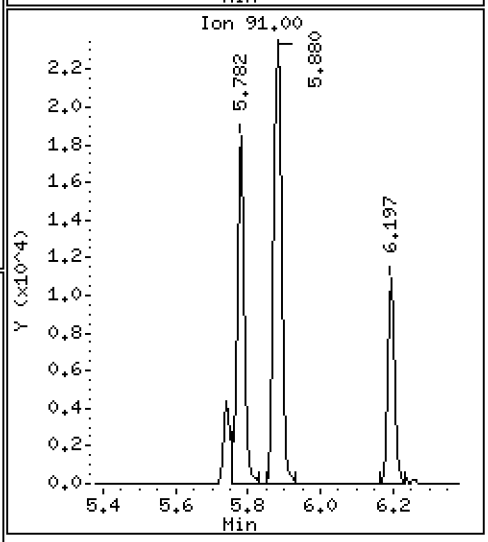












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 91

Date : 24-OCT-2016 23:25

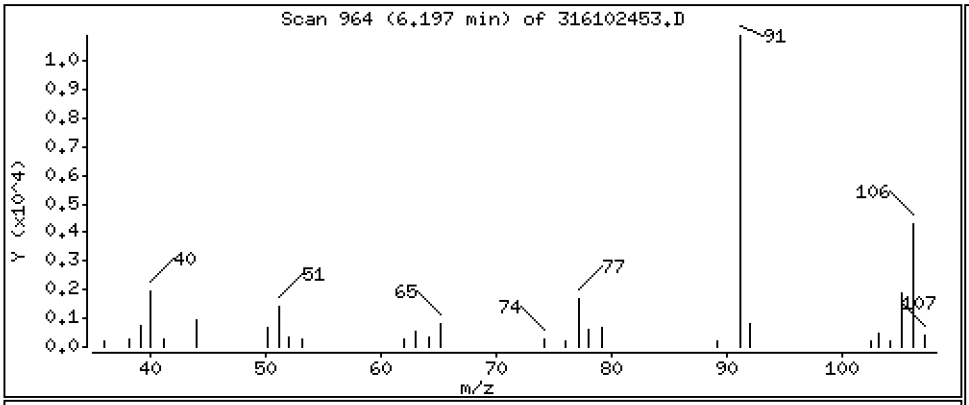
Client ID: Instrument: ms03.i

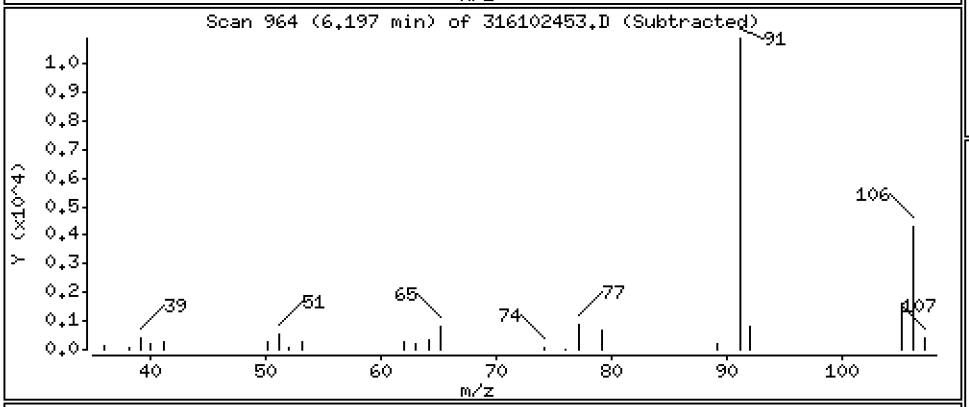
Sample Info: VSTD00.5;;1;1;8;;;

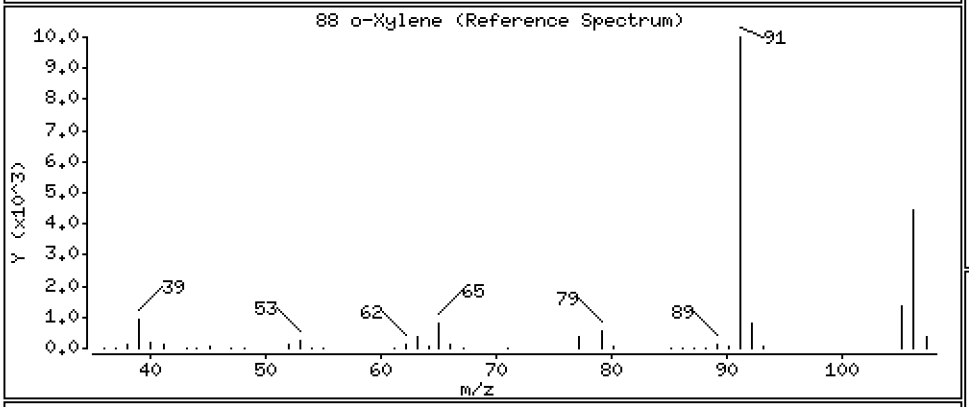
Purge Volume: 5.0 Operator: CJG

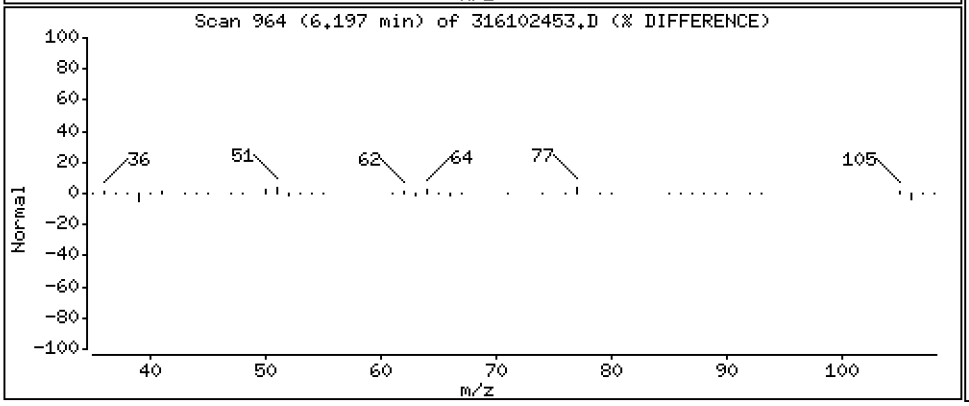
Column phase: DB-VRX Column diameter: 0.25

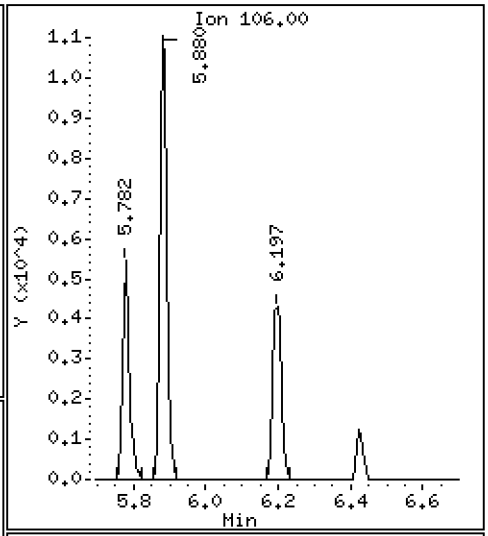
88 o-Xylene Concentration: 0.559136 ug/L

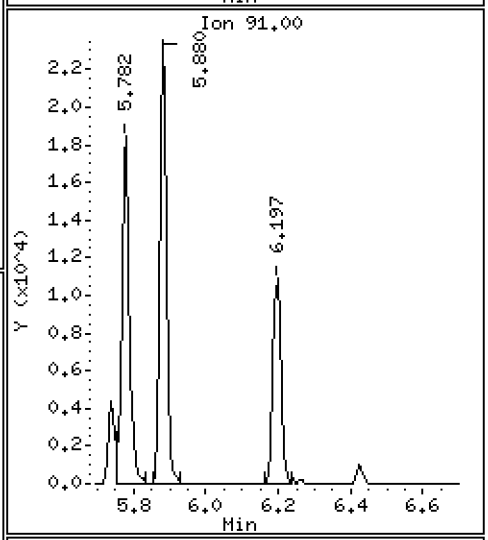


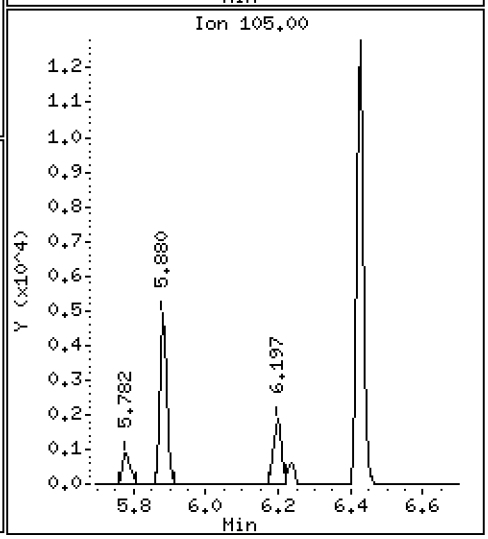












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 92

Date : 24-OCT-2016 23:25

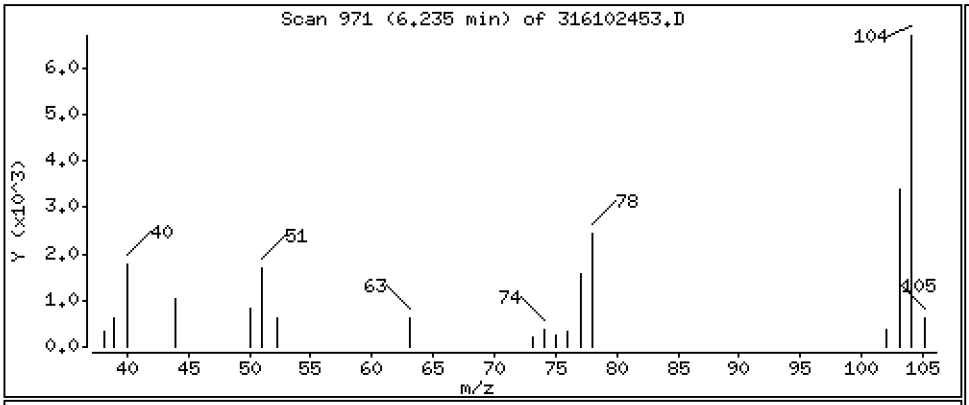
Client ID: Instrument: ms03.i

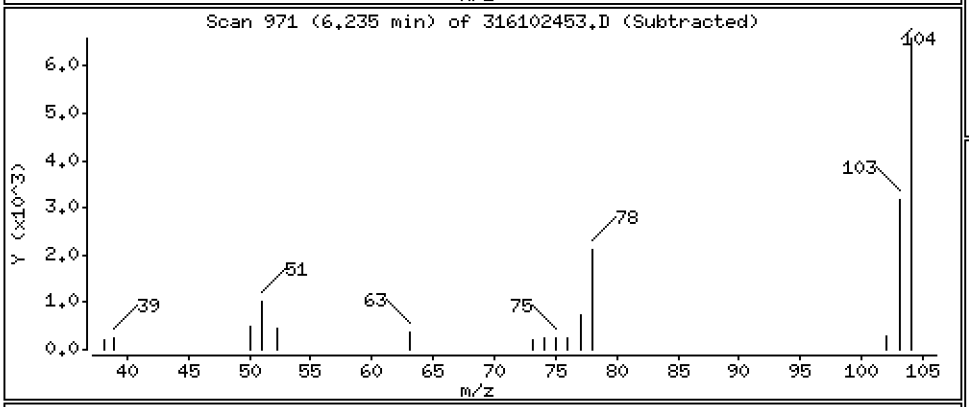
Sample Info: VSTD00.5;;1;1;8;;;

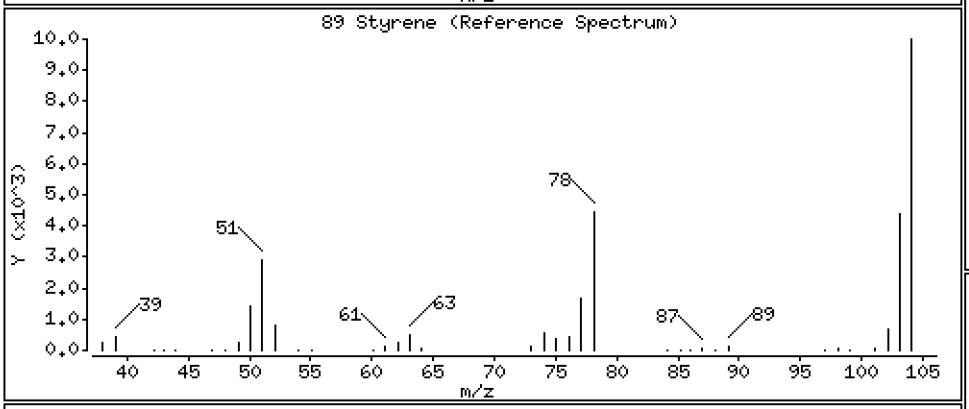
Purge Volume: 5.0 Operator: CJG

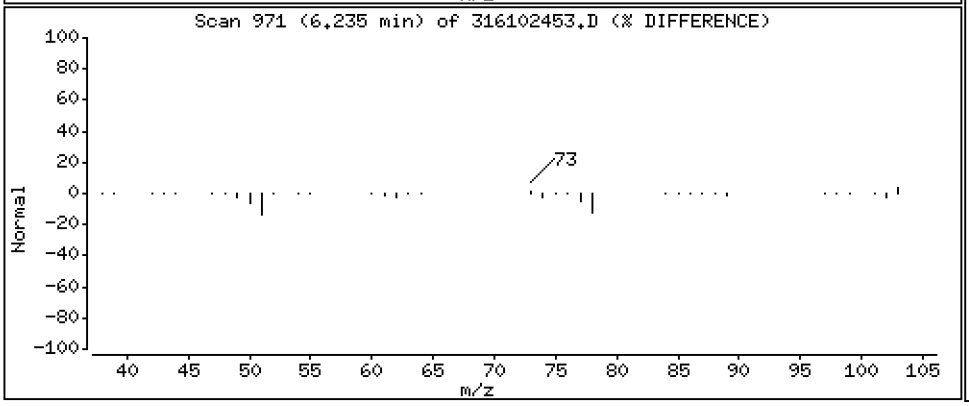
Column phase: DB-VRX Column diameter: 0.25

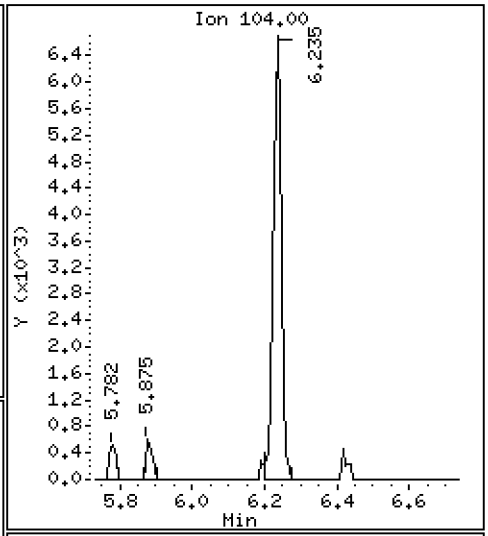
89 Styrene Concentration: 0.514581 ug/L

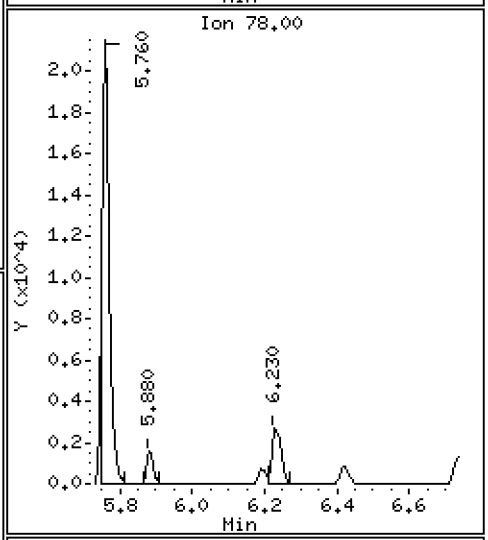


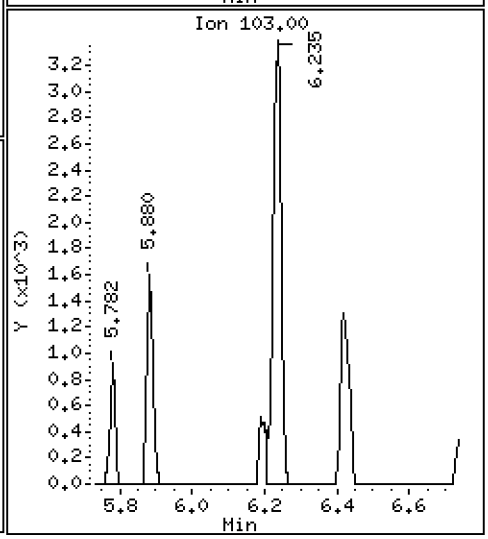












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 93

Date : 24-OCT-2016 23:25

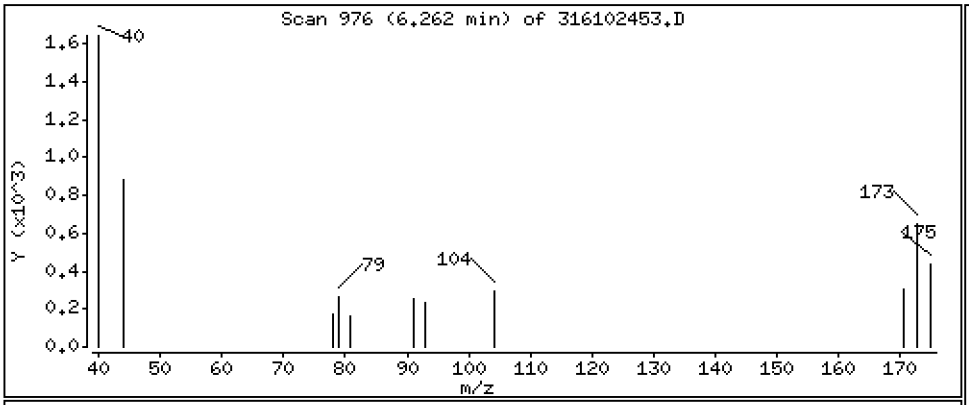
Client ID: Instrument: ms03.i

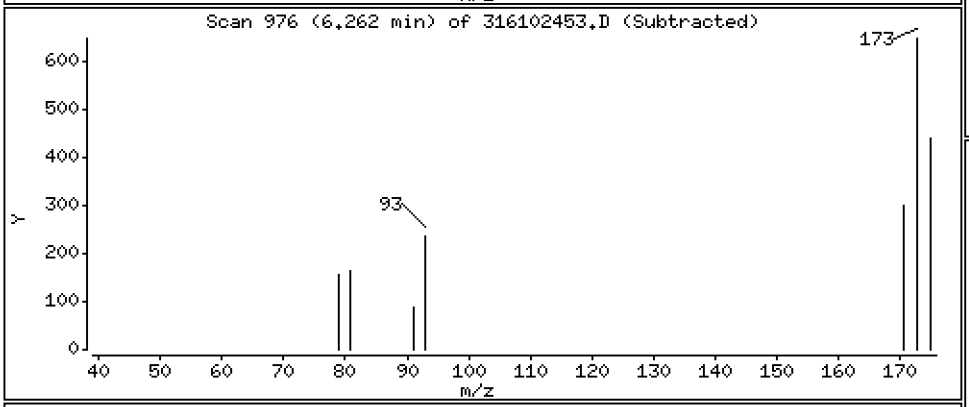
Sample Info: VSTD00.5;;1;1;8;;;

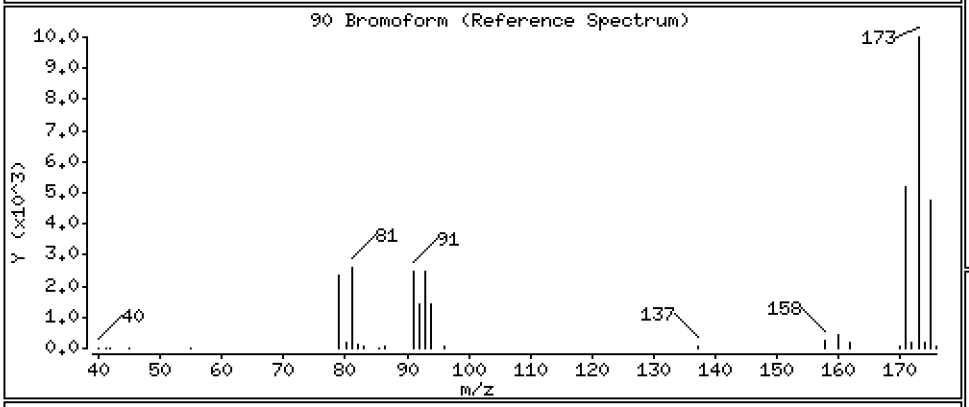
Purge Volume: 5.0 Operator: CJG

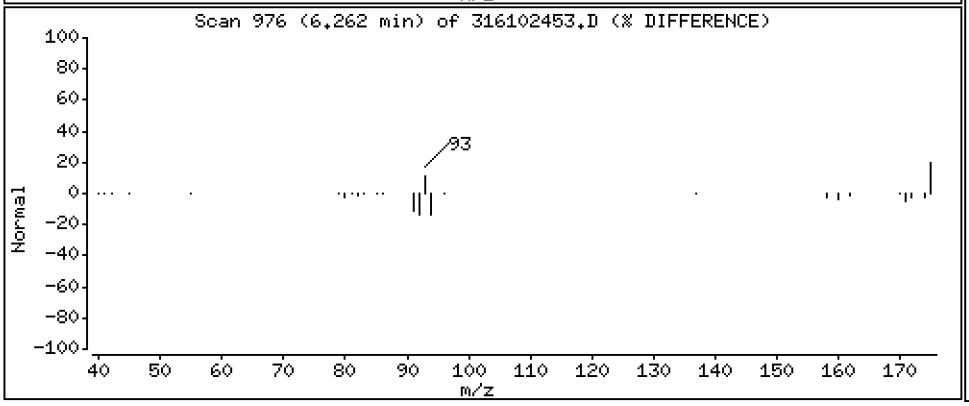
Column phase: DB-VRX Column diameter: 0.25

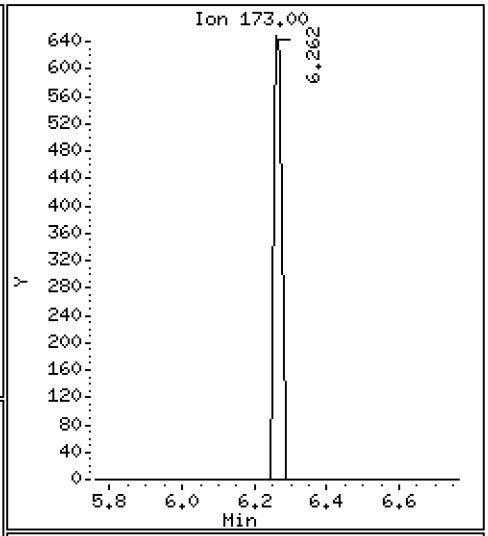
90 Bromoform Concentration: 0.395703 ug/L

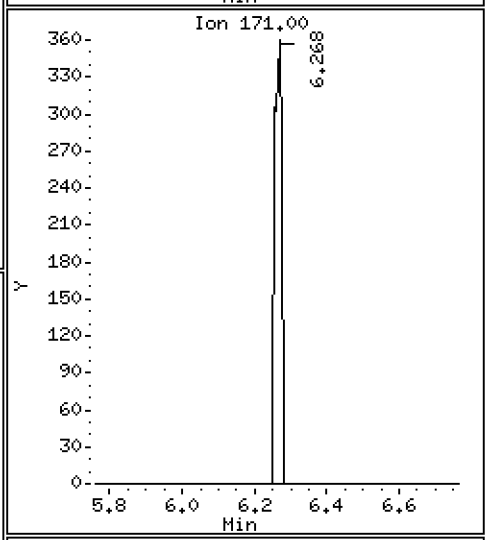


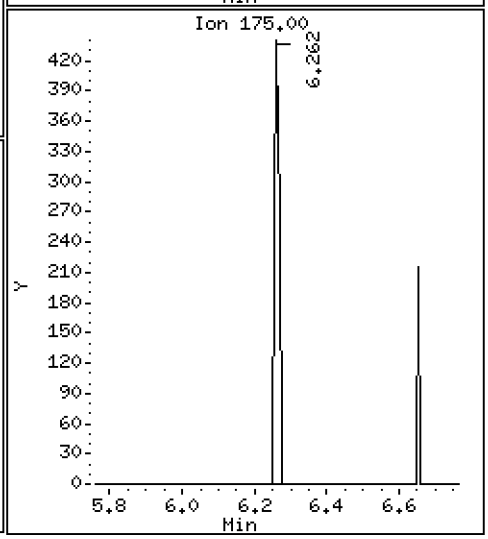












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 94

Date : 24-OCT-2016 23:25

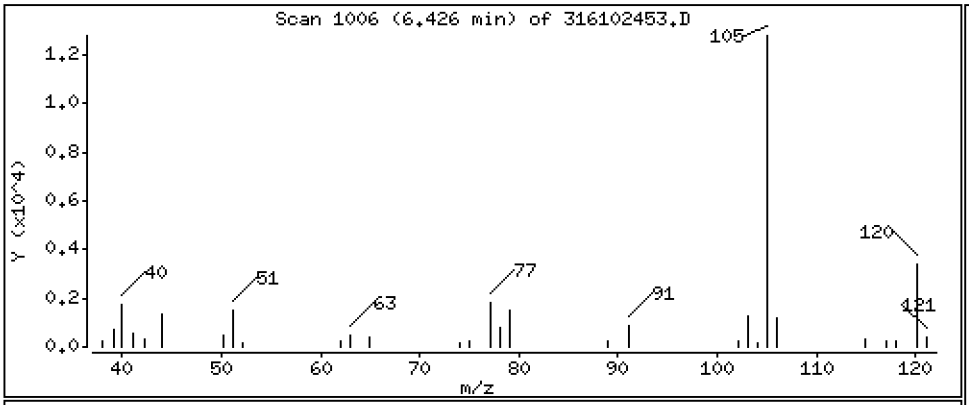
Client ID: Instrument: ms03.i

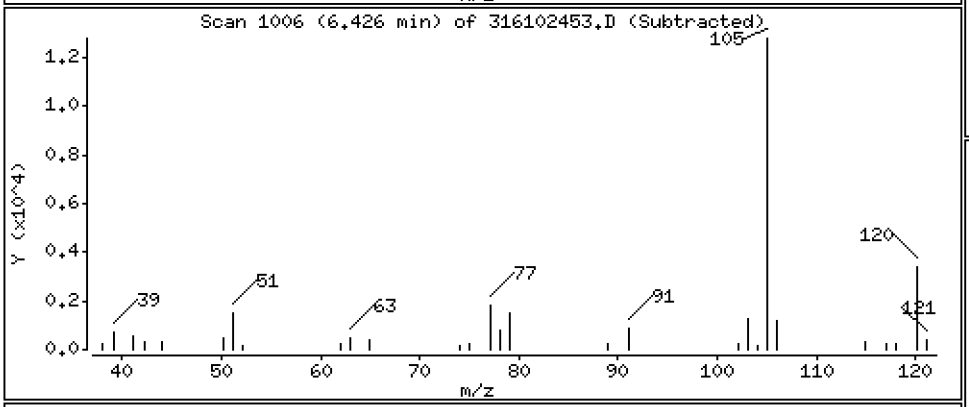
Sample Info: VSTD00.5;;1;1;8;;;

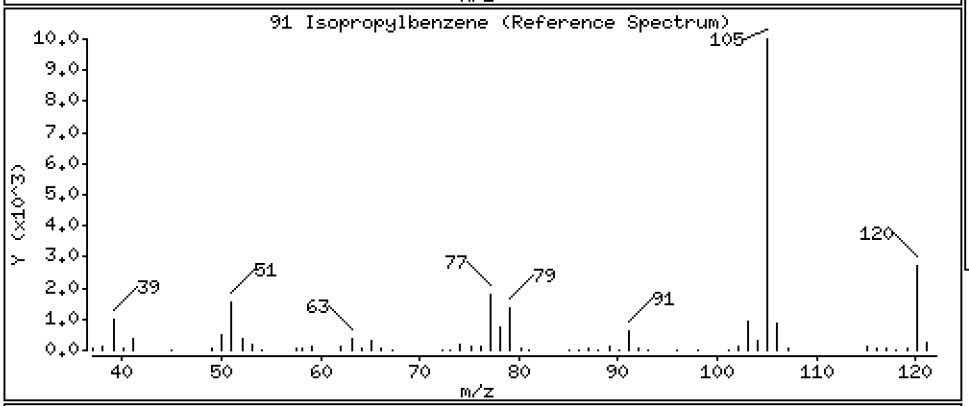
Purge Volume: 5.0 Operator: CJG

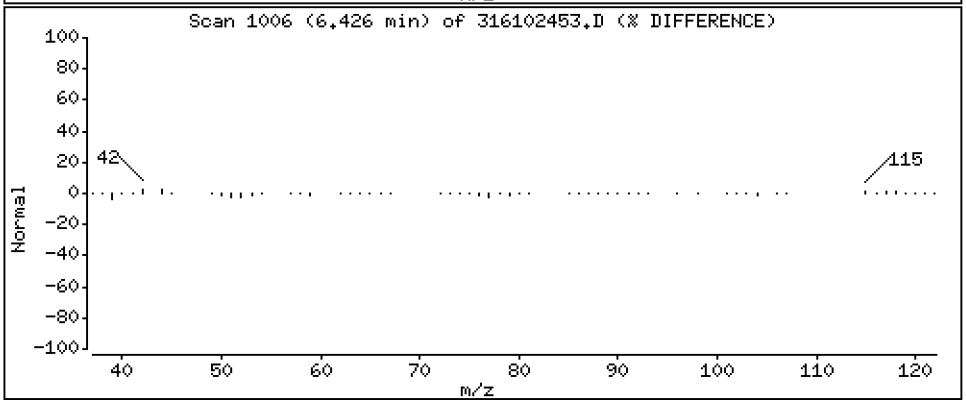
Column phase: DB-VRX Column diameter: 0.25

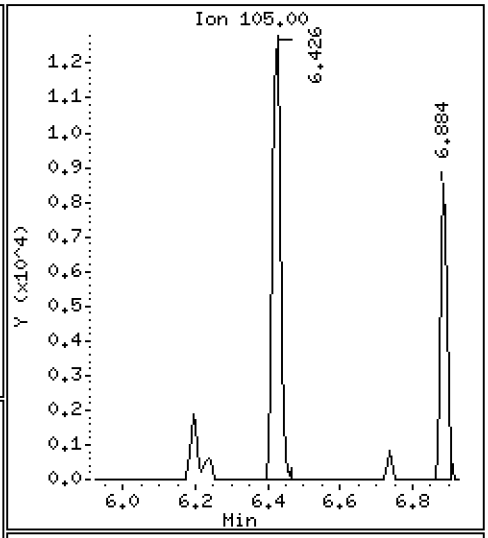
91 Isopropylbenzene Concentration: 0.633423 ug/L

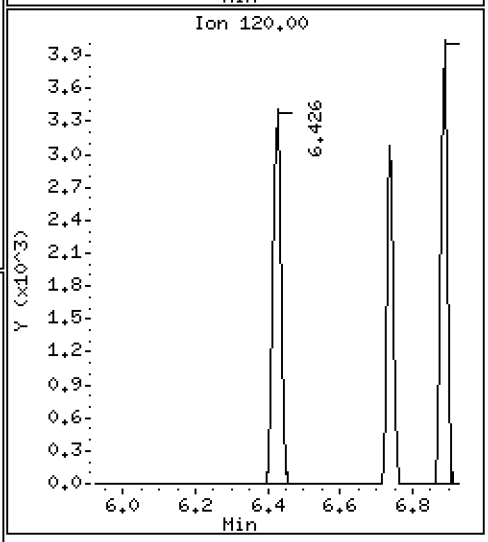












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 95

Date : 24-OCT-2016 23:25

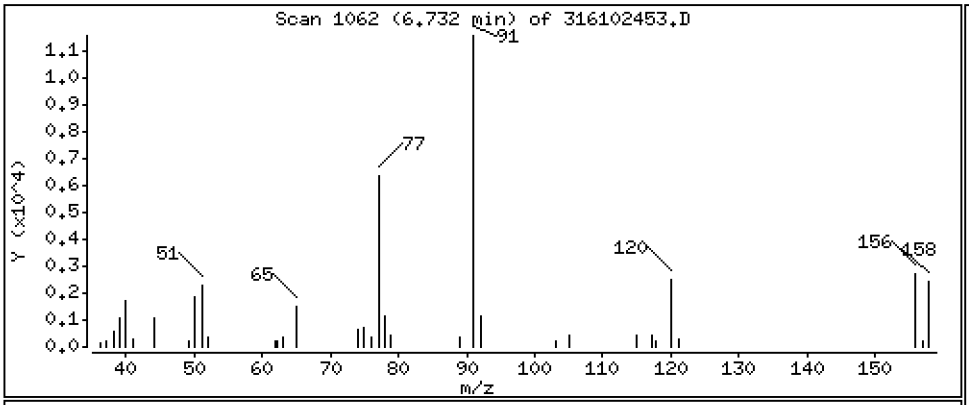
Client ID: Instrument: ms03.i

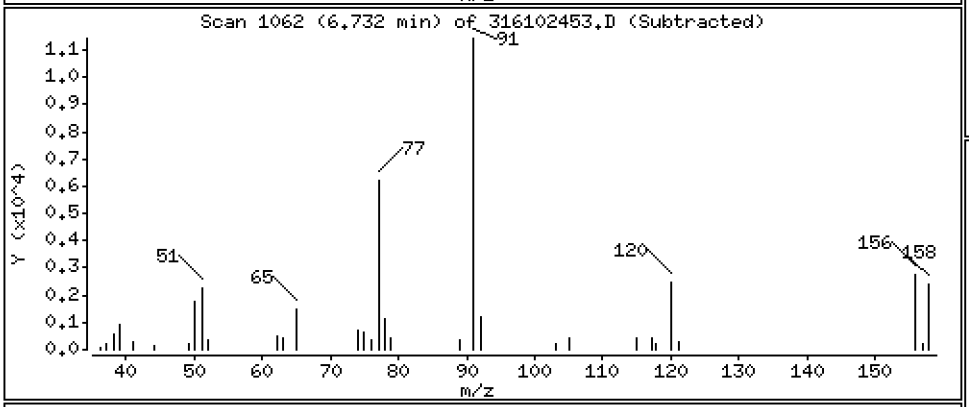
Sample Info: VSTD00.5;;1;1;8;;;

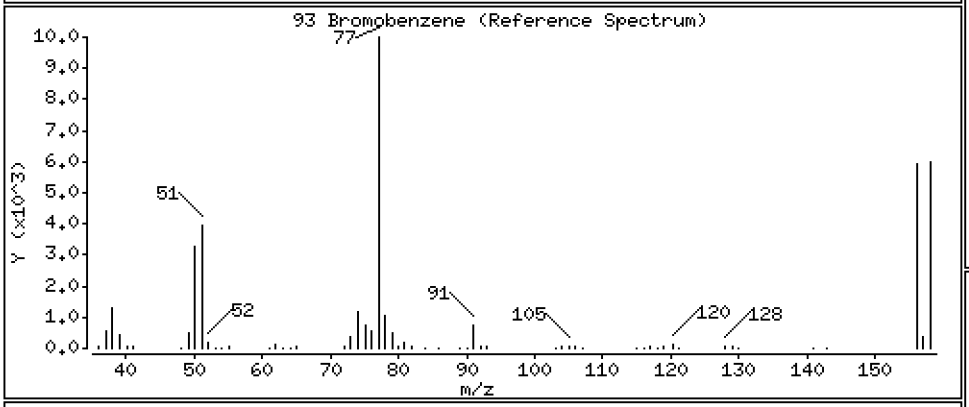
Purge Volume: 5.0 Operator: CJG

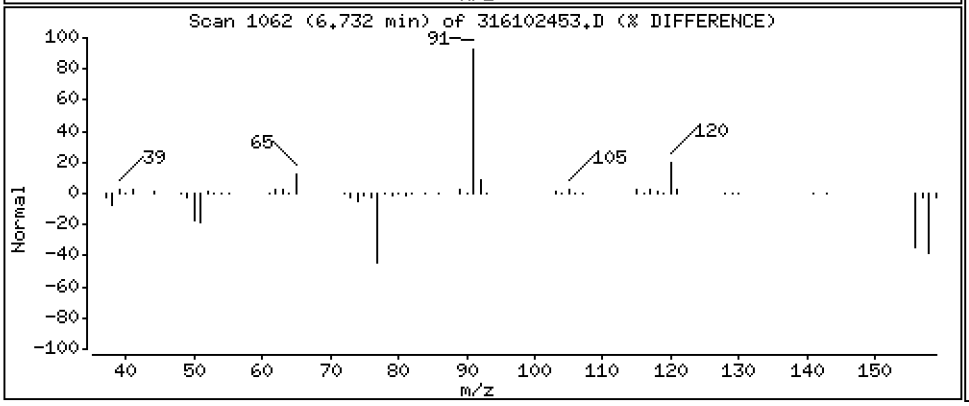
Column phase: DB-VRX Column diameter: 0.25

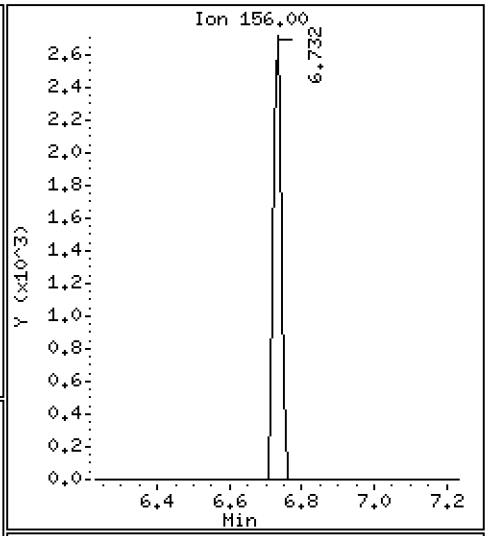
93 Bromobenzene Concentration: 0.672212 ug/L

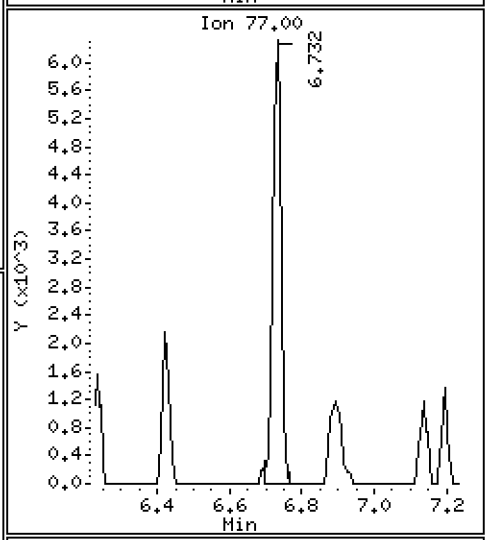


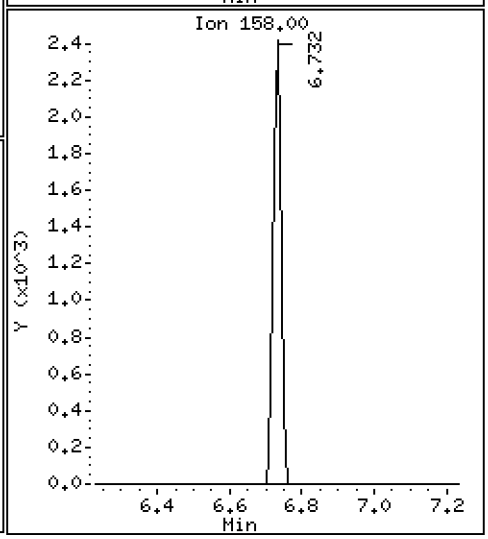












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 96

Date : 24-OCT-2016 23:25

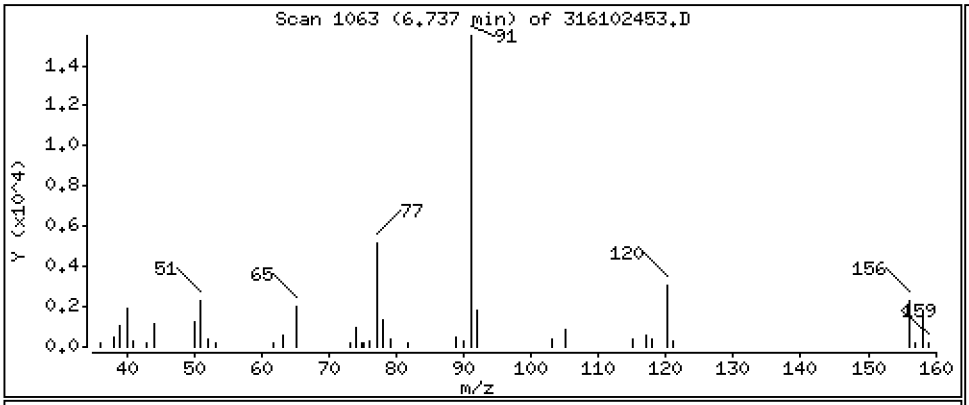
Client ID: Instrument: ms03.i

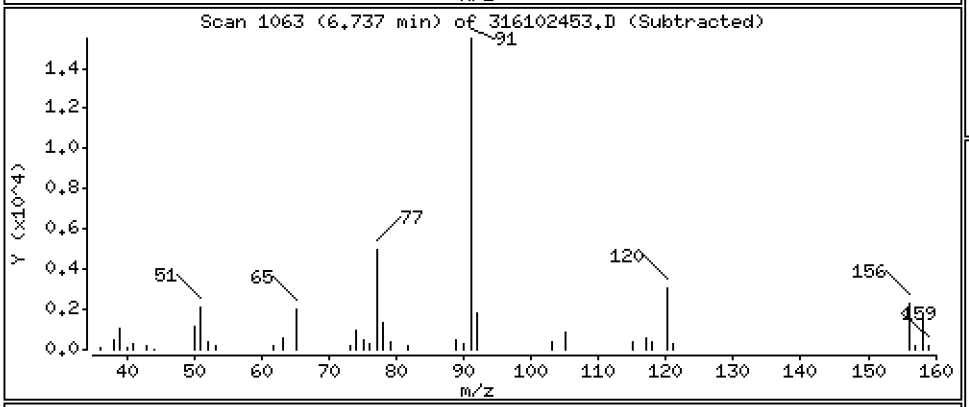
Sample Info: VSTD00.5;;1;1;8;;;

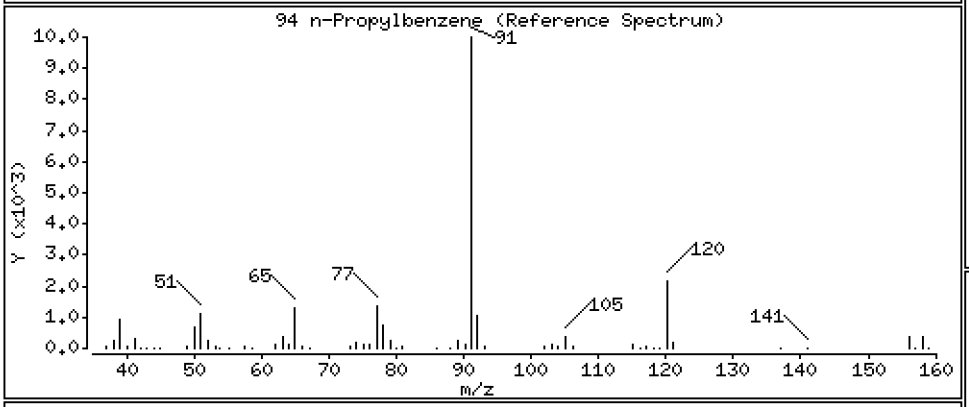
Purge Volume: 5.0 Operator: CJG

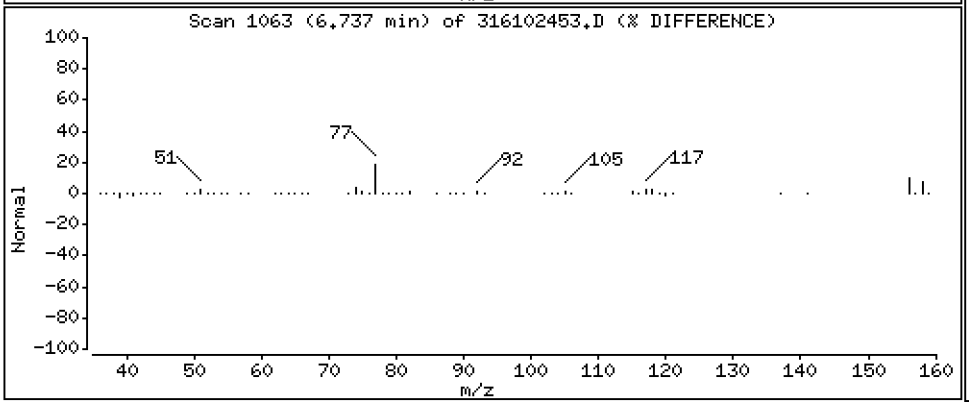
Column phase: DB-VRX Column diameter: 0.25

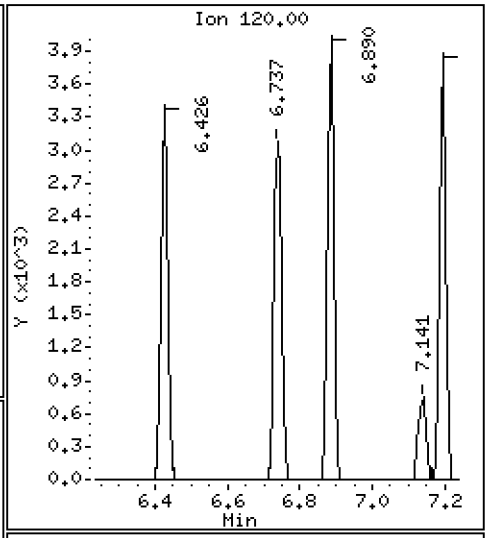
94 n-Propylbenzene Concentration: 0.578296 ug/L

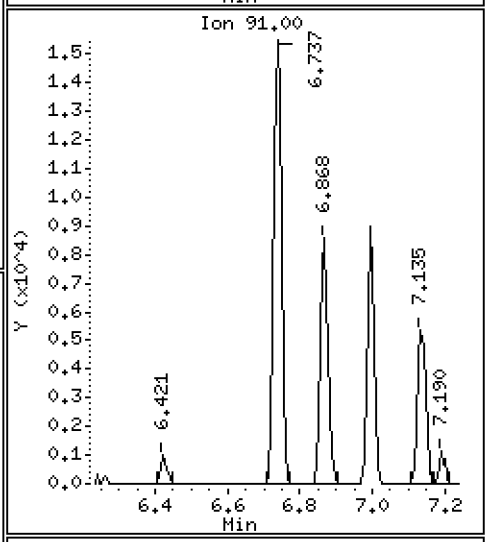


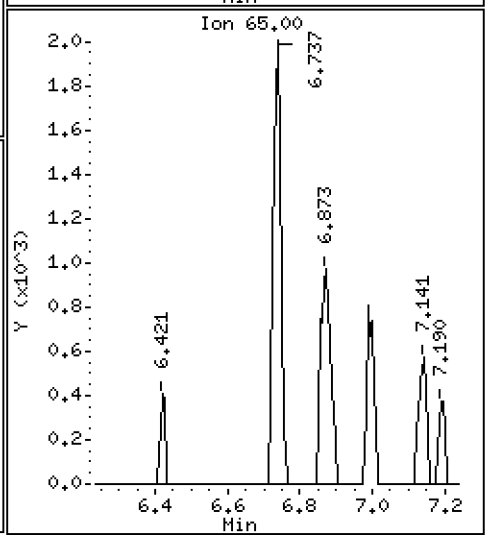












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 97

Date : 24-OCT-2016 23:25

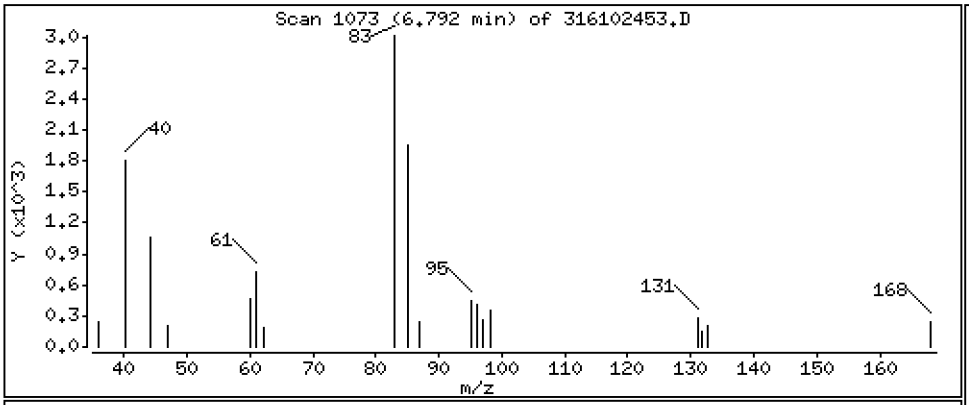
Client ID: Instrument: ms03.i

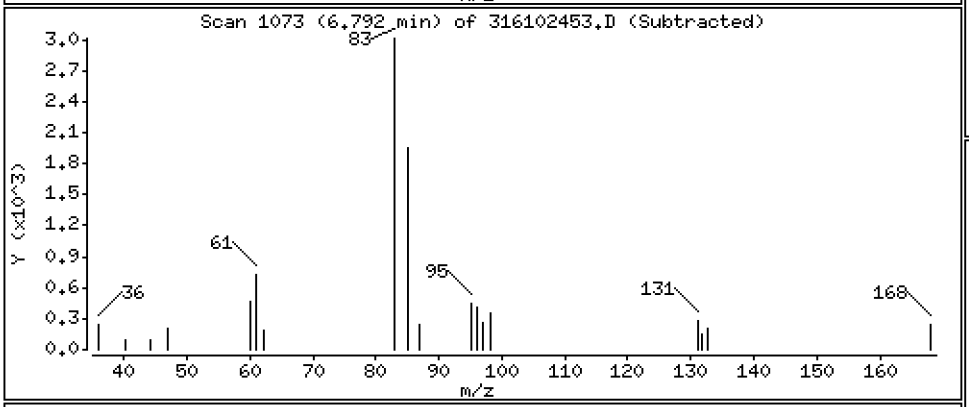
Sample Info: VSTD00.5;;1;1;8;;;

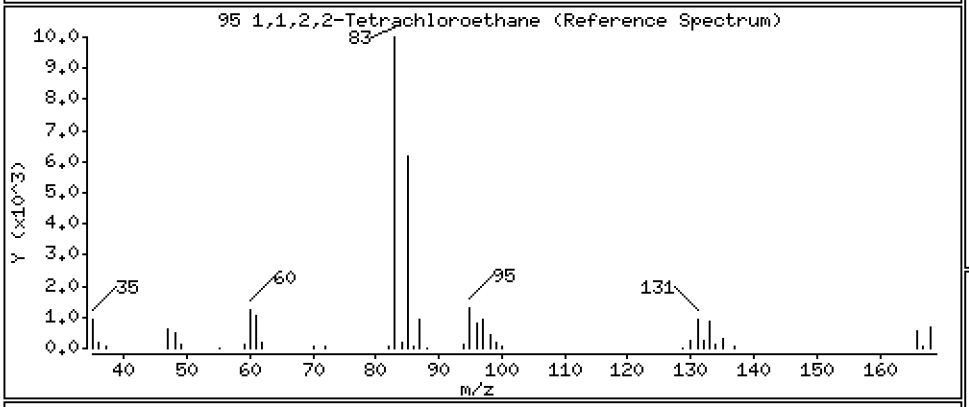
Purge Volume: 5.0 Operator: CJG

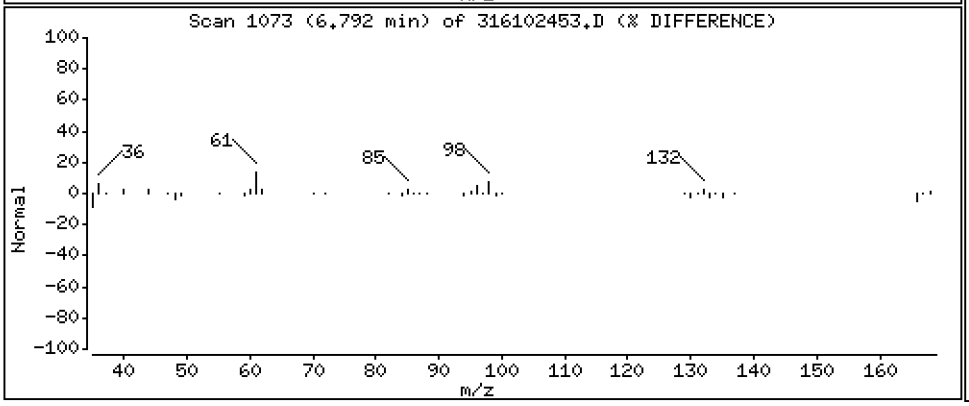
Column phase: DB-VRX Column diameter: 0.25

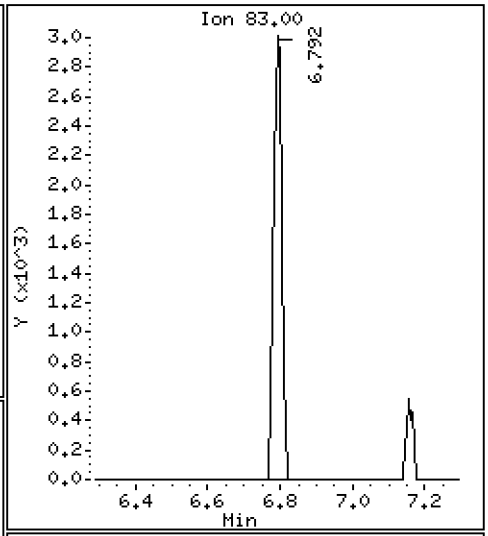
95 1,1,2,2-Tetrachloroethane Concentration: 0.645241 ug/L

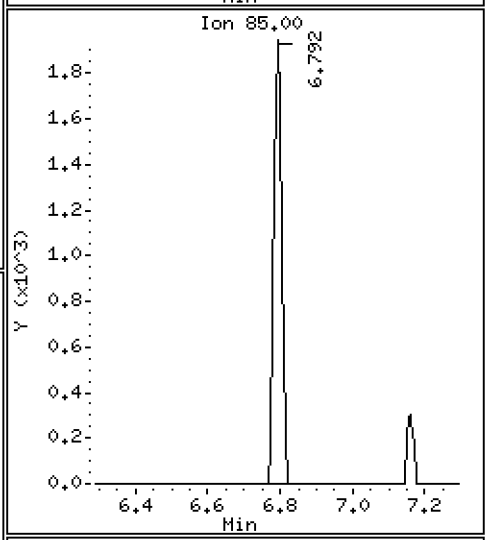


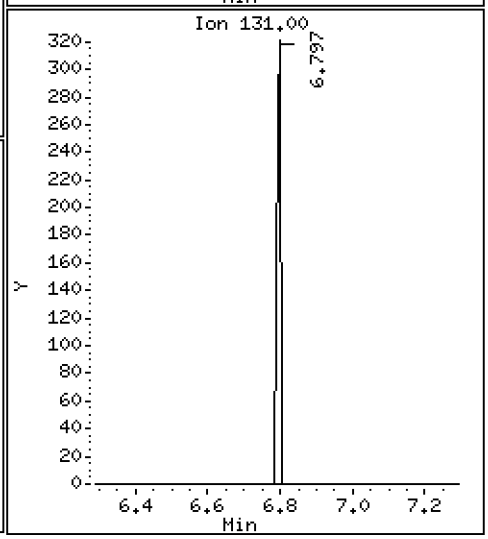












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 98

Date : 24-OCT-2016 23:25

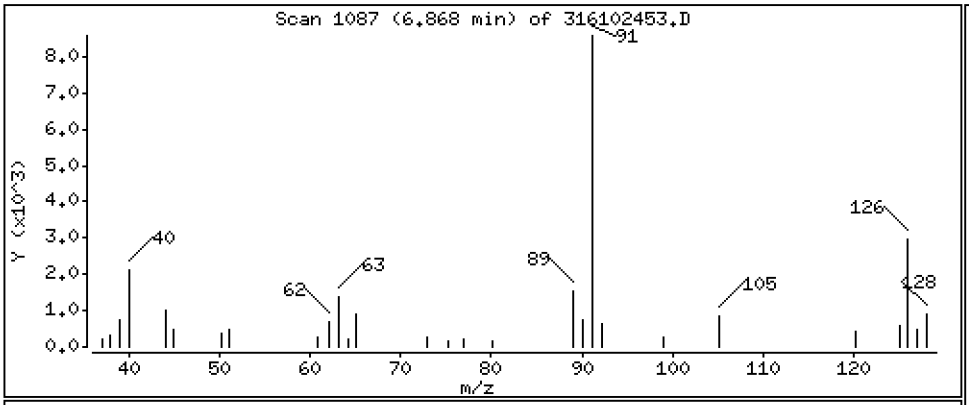
Client ID: Instrument: ms03.i

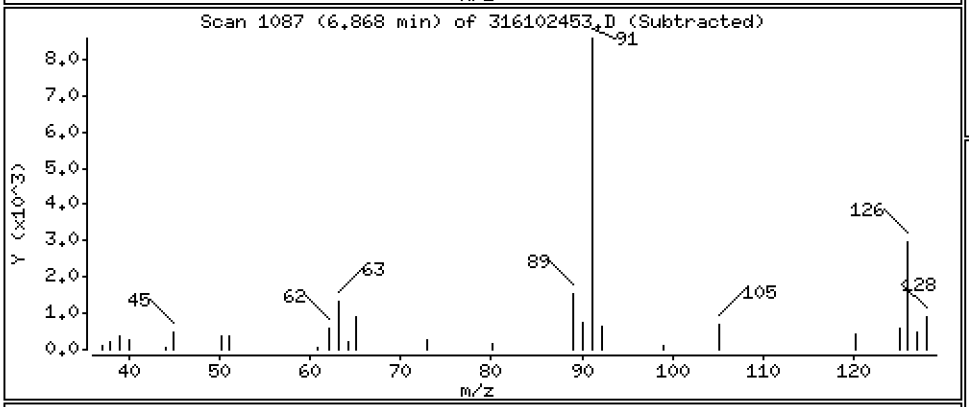
Sample Info: VSTD00.5;;1;1;8;;;

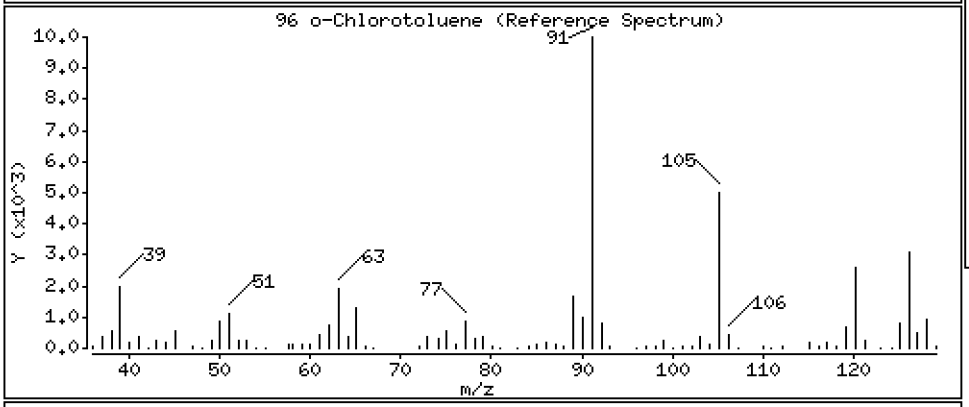
Purge Volume: 5.0 Operator: CJG

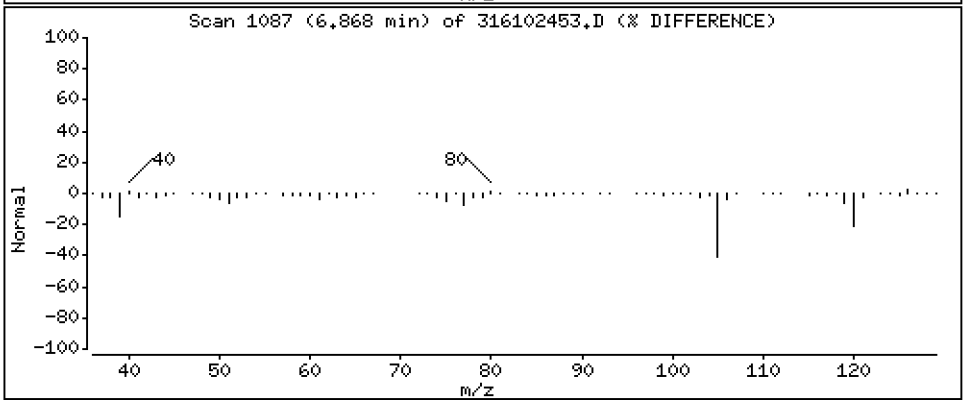
Column phase: DB-VRX Column diameter: 0.25

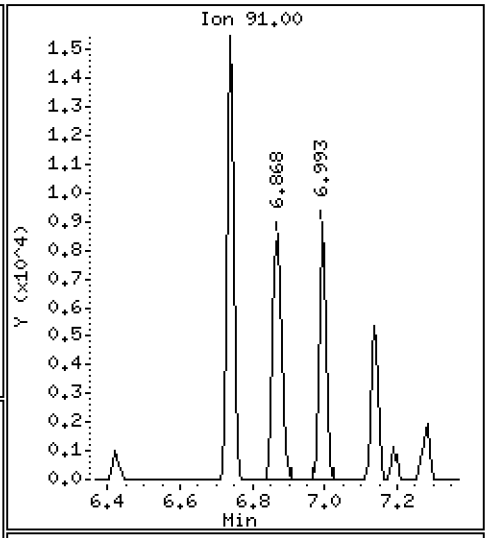
96 o-Chlorotoluene Concentration: 0.629781 ug/L

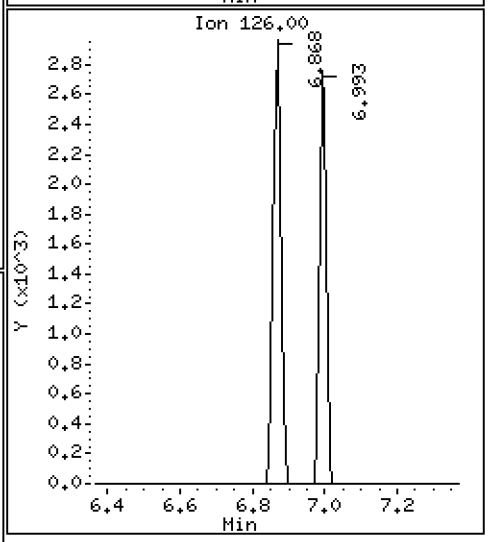












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 99

Date : 24-OCT-2016 23:25

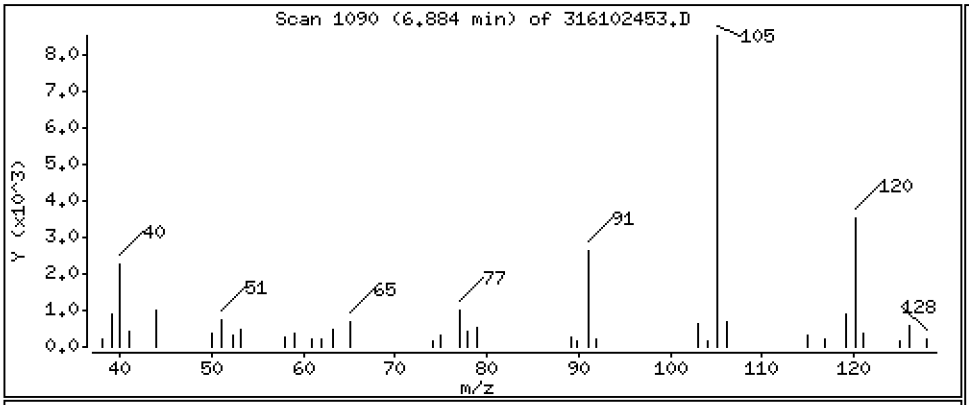
Client ID: Instrument: ms03.i

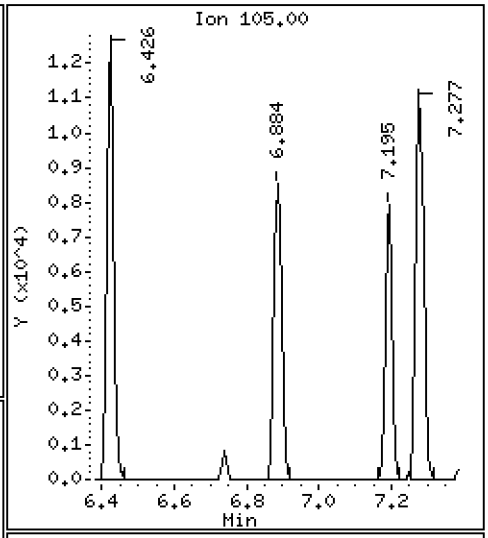
Sample Info: VSTD00.5;;1;1;8;;;

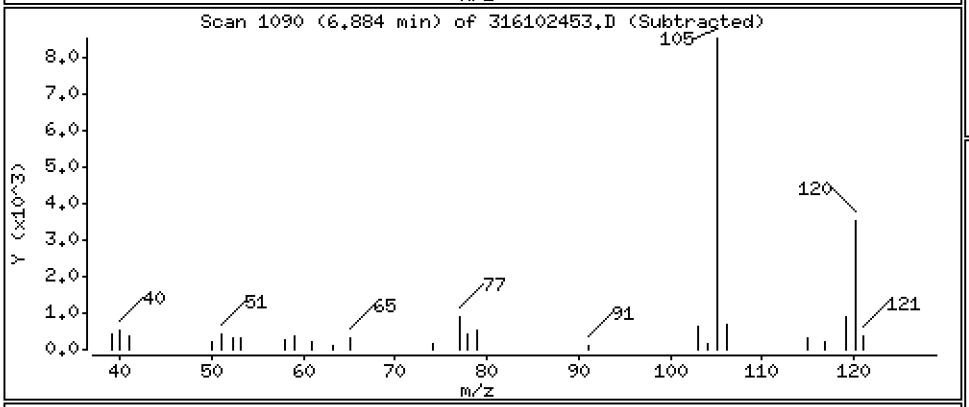
Purge Volume: 5.0 Operator: CJG

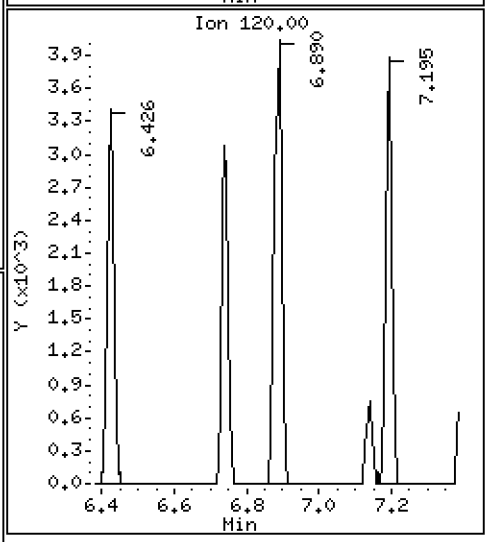
Column phase: DB-VRX Column diameter: 0.25

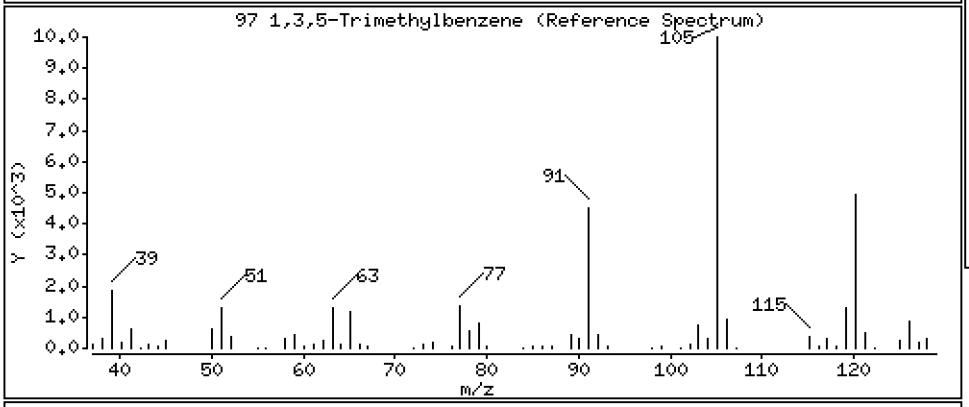
97 1,3,5-Trimethylbenzene Concentration: 0.552941 ug/L

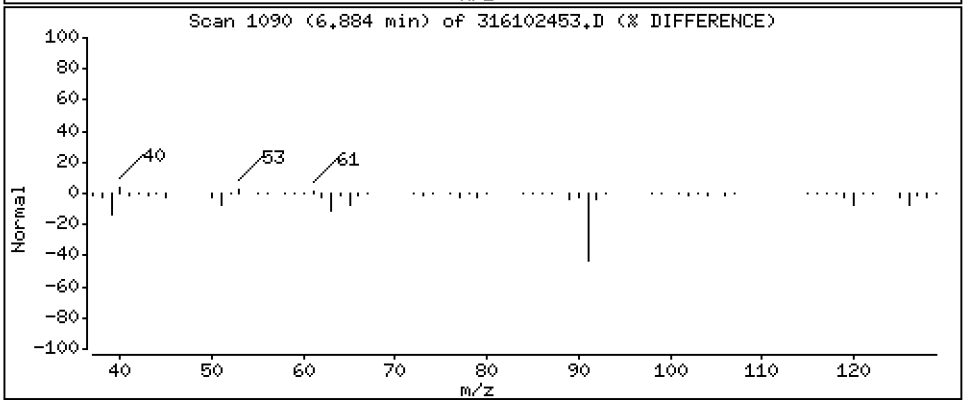












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 100

Date : 24-OCT-2016 23:25

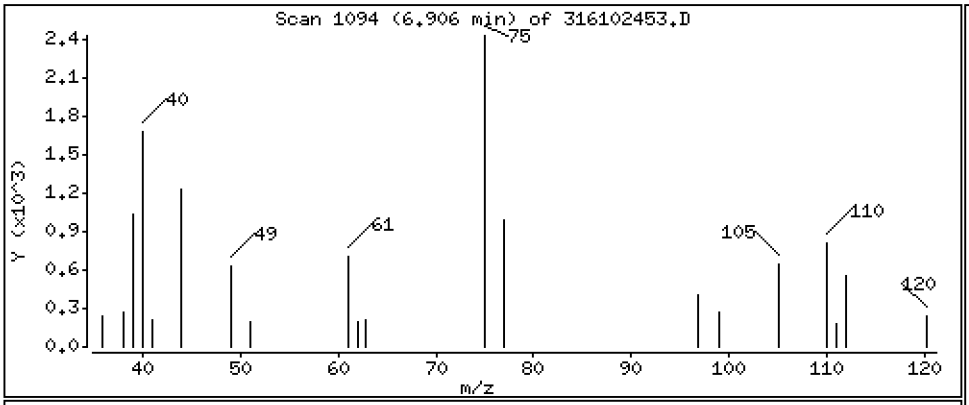
Client ID: Instrument: ms03.i

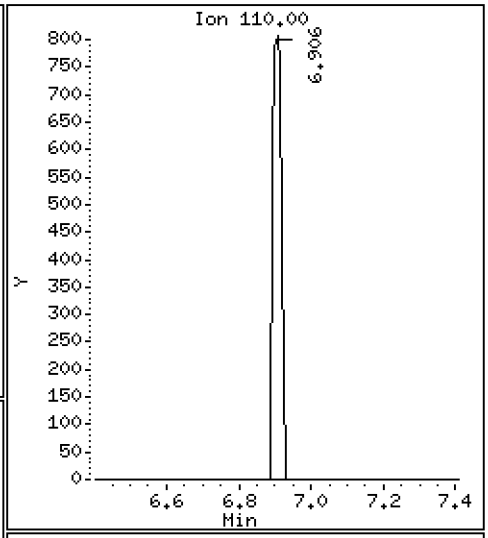
Sample Info: VSTD00.5;;1;1;8;;;

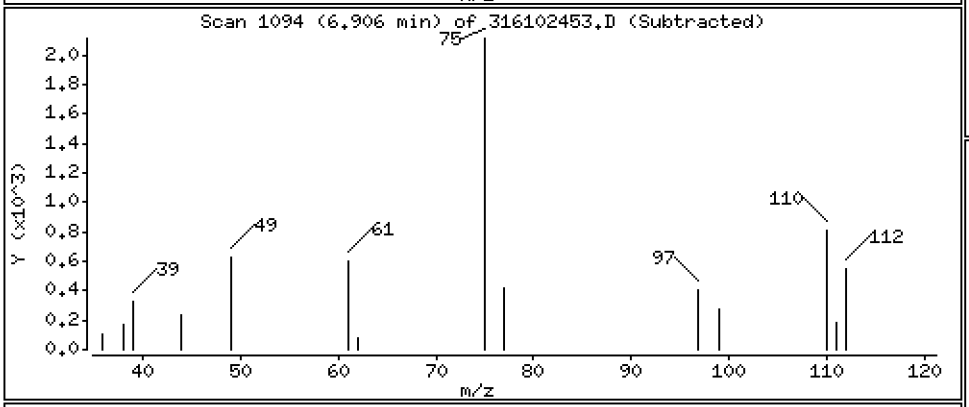
Purge Volume: 5.0 Operator: CJG

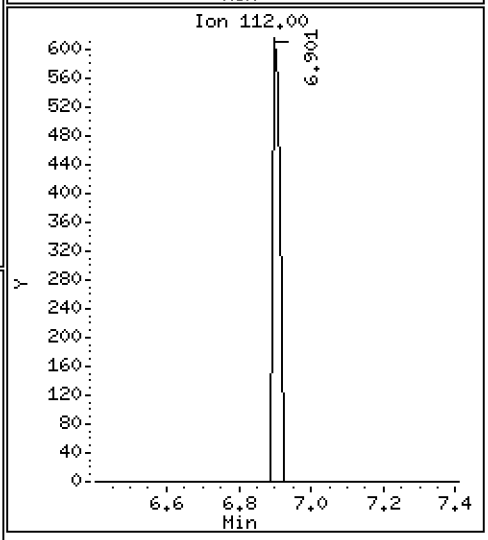
Column phase: DB-VRX Column diameter: 0.25

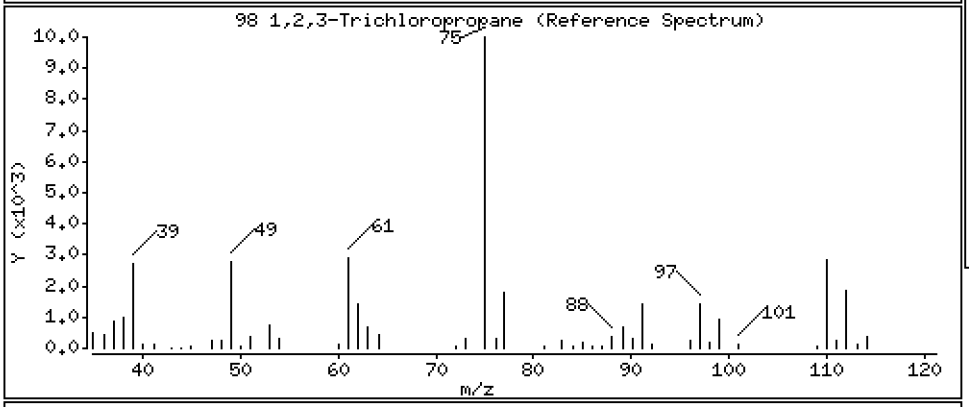
98 1,2,3-Trichloropropane Concentration: 0.622126 ug/L

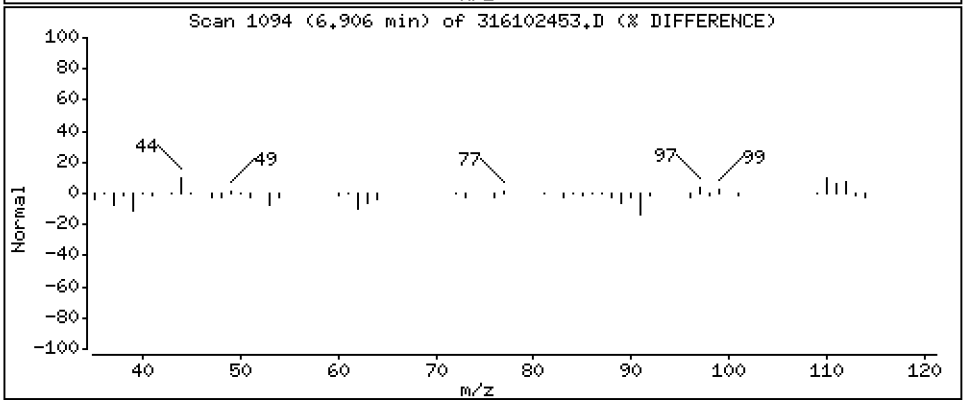












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 101

Date : 24-OCT-2016 23:25

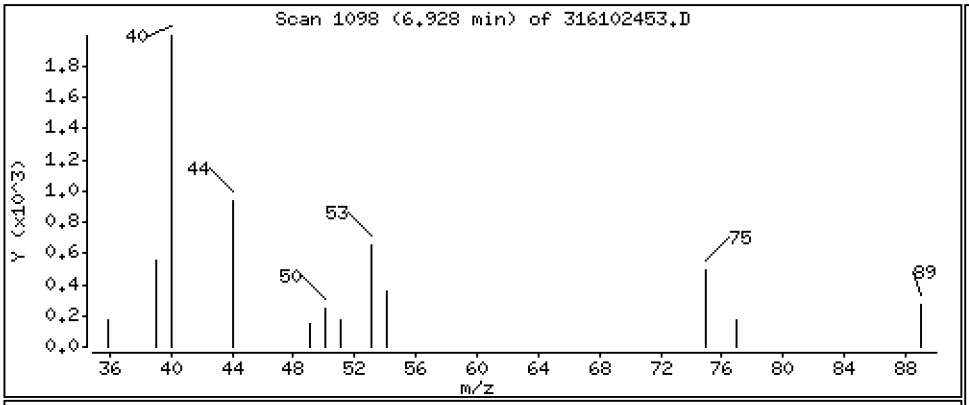
Client ID: Instrument: ms03.i

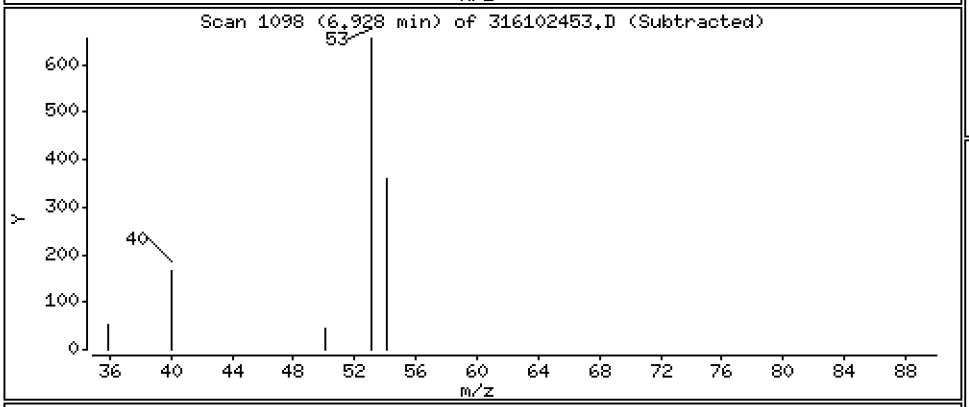
Sample Info: VSTD00.5;;1;1;8;;;

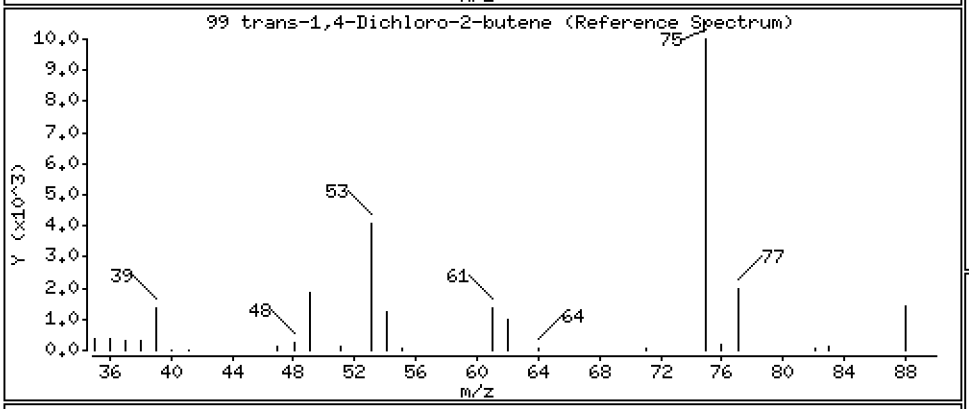
Purge Volume: 5.0 Operator: CJG

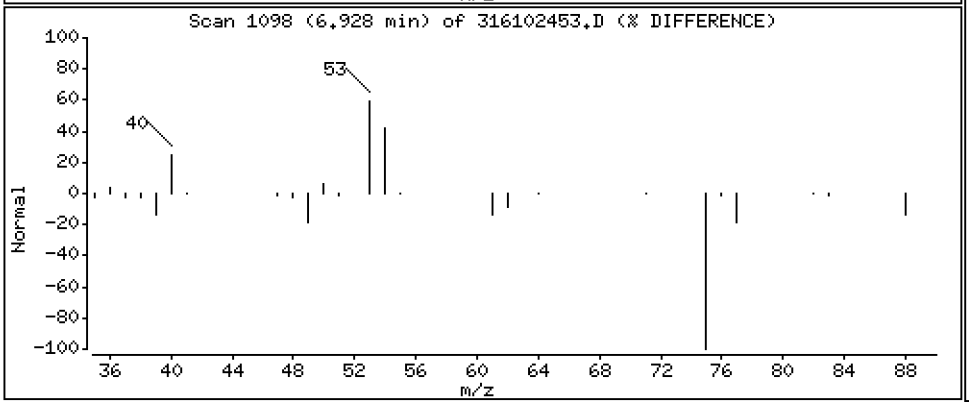
Column phase: DB-VRX Column diameter: 0.25

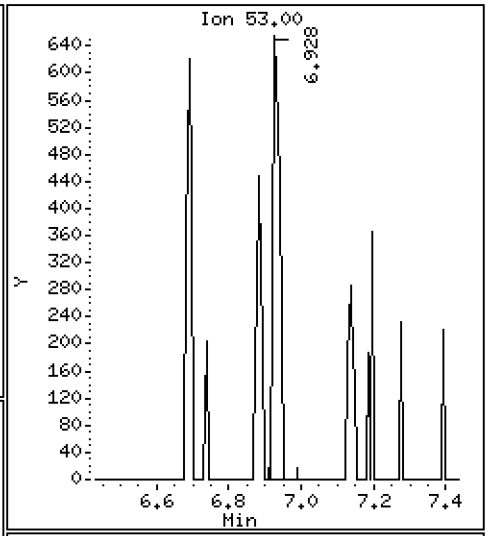
99 trans-1,4-Dichloro-2-butene Concentration: 0.414560 ug/L

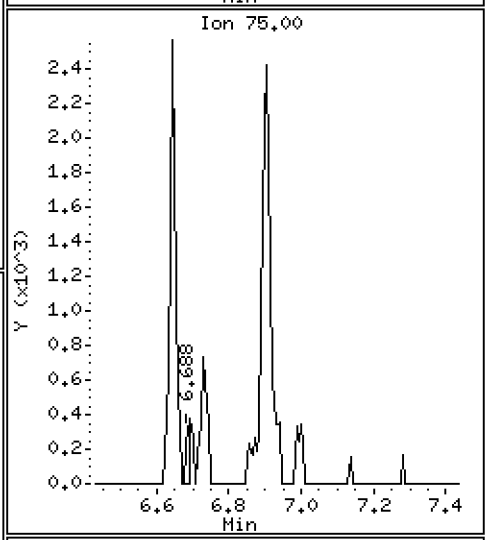


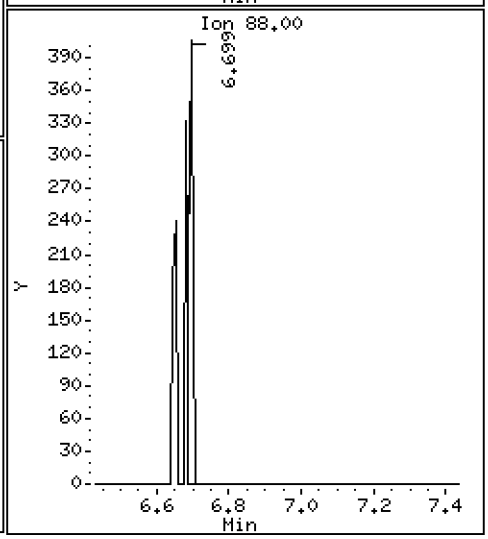












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 102

Date : 24-OCT-2016 23:25

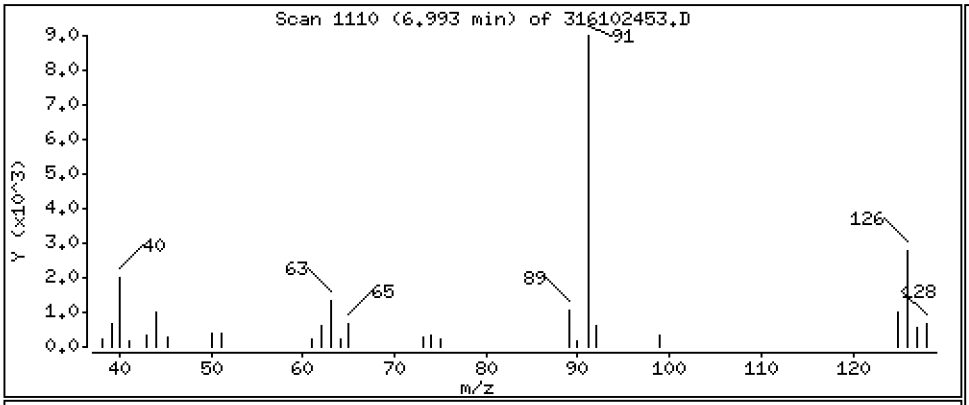
Client ID: Instrument: ms03.i

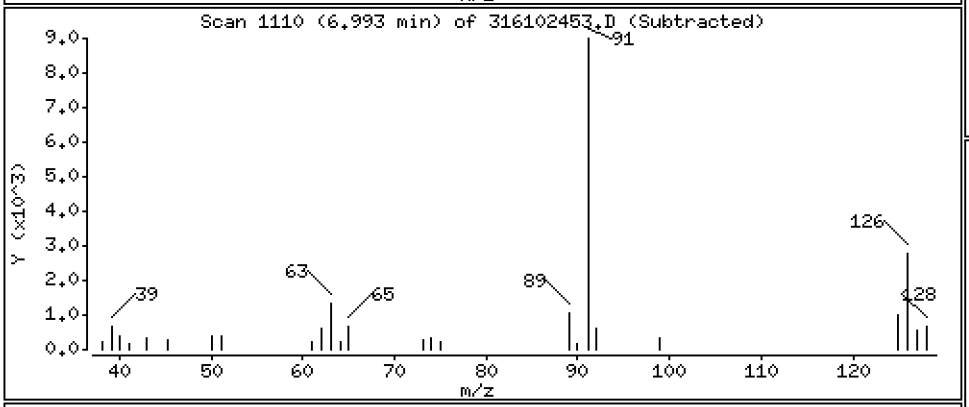
Sample Info: VSTD00.5;;1;1;8;;;

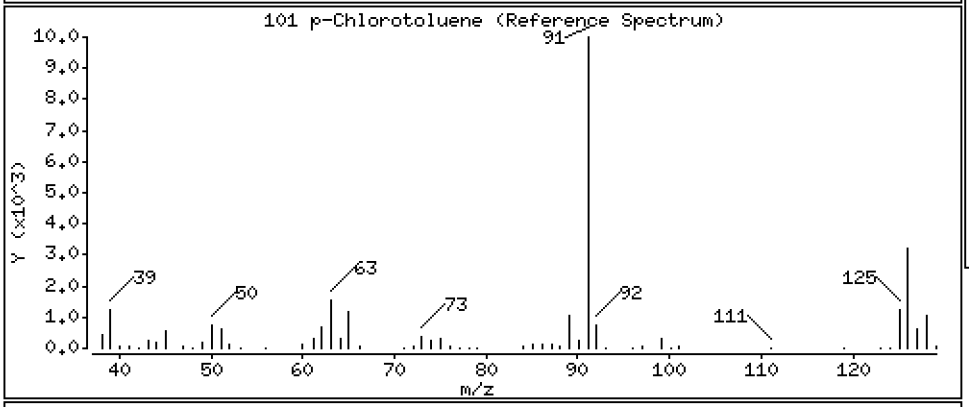
Purge Volume: 5.0 Operator: CJG

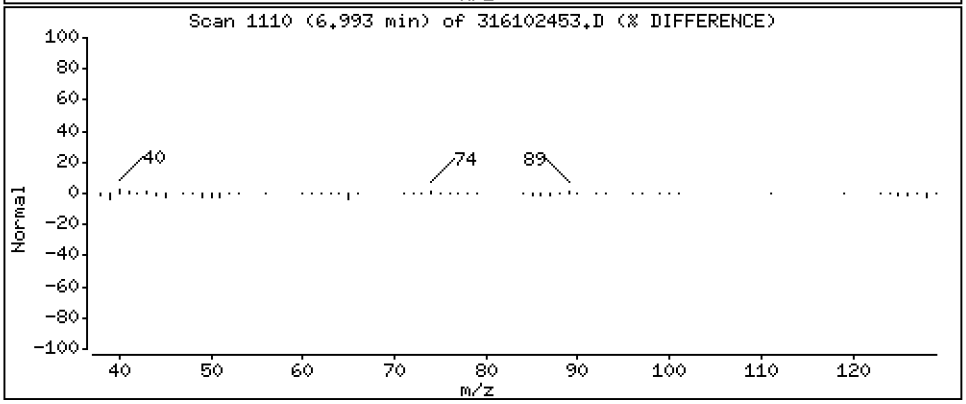
Column phase: DB-VRX Column diameter: 0.25

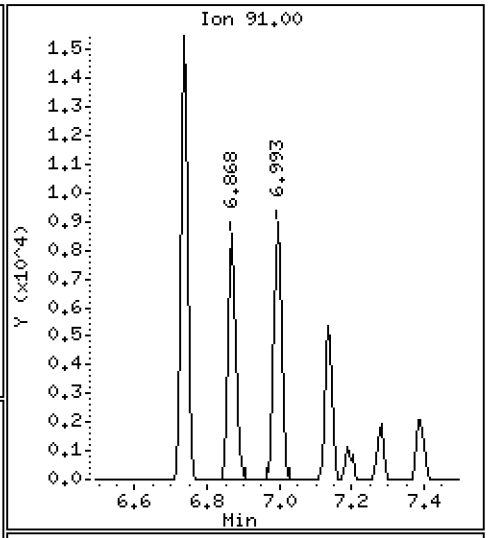
101 p-Chlorotoluene Concentration: 0.609234 ug/L

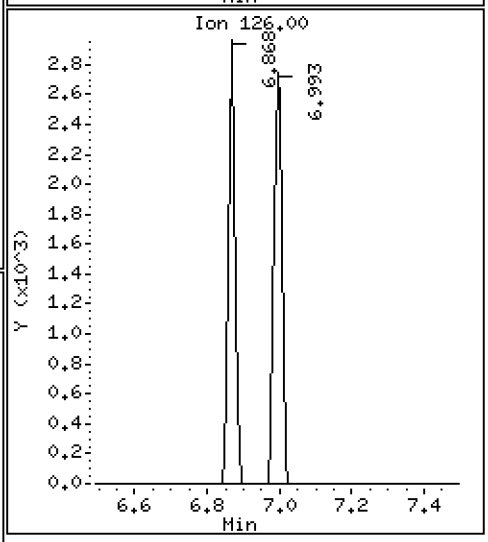












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 103

Date : 24-OCT-2016 23:25

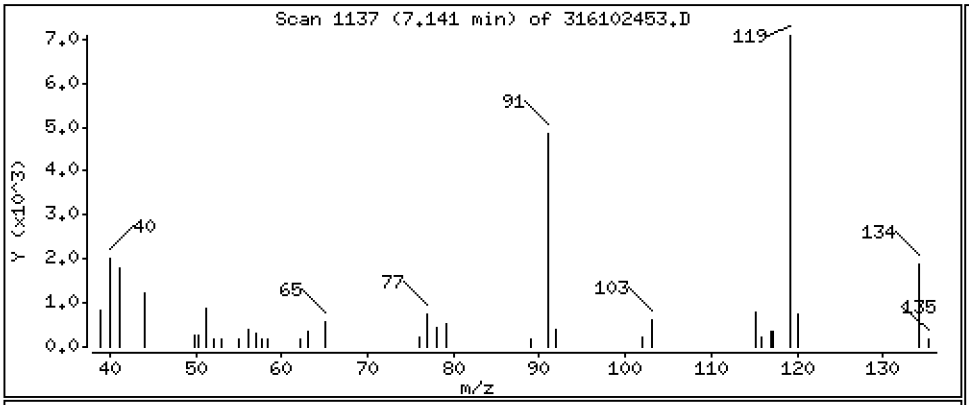
Client ID: Instrument: ms03.i

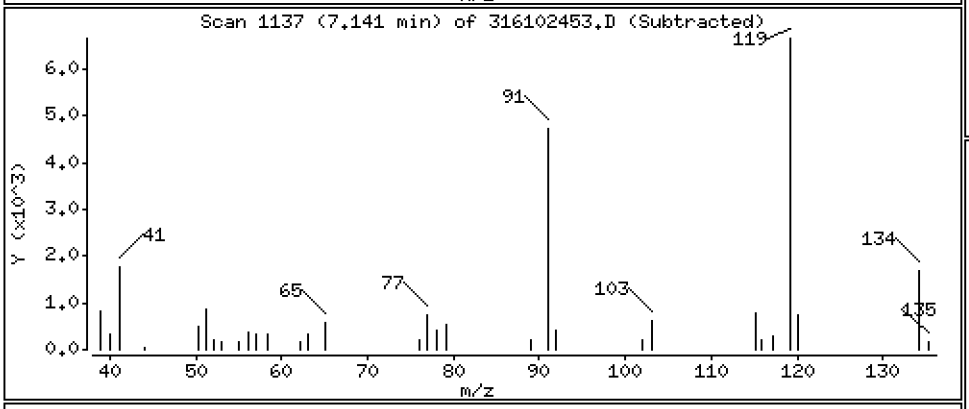
Sample Info: VSTD00.5;;1;1;8;;;

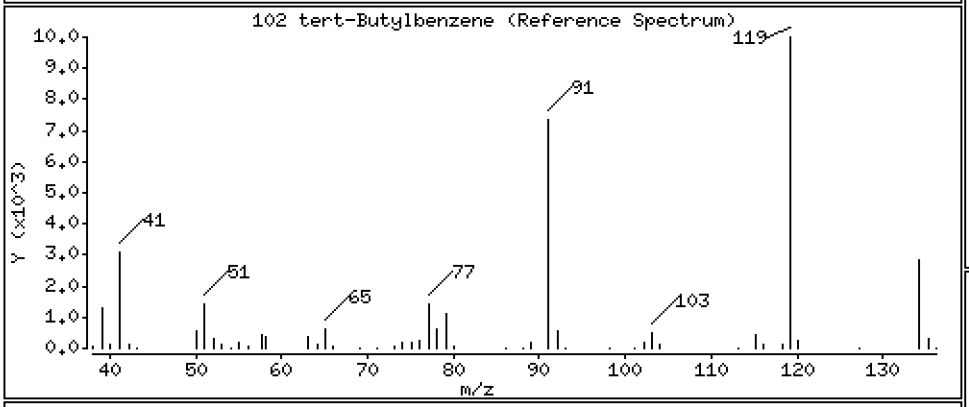
Purge Volume: 5.0 Operator: CJG

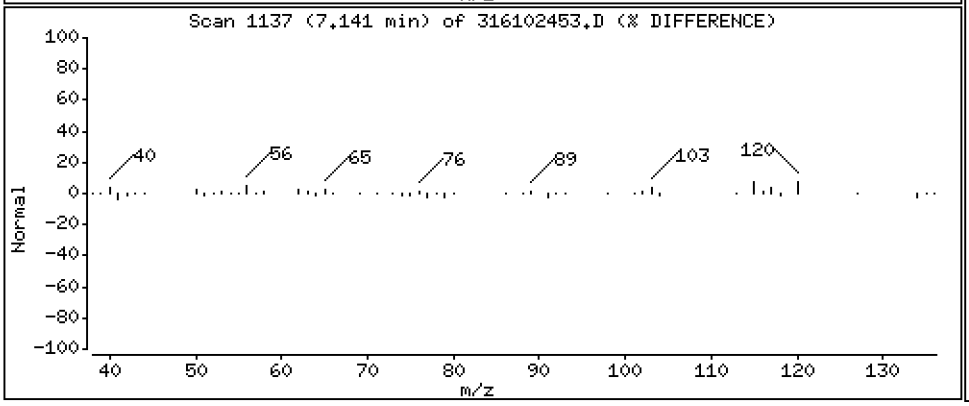
Column phase: DB-VRX Column diameter: 0.25

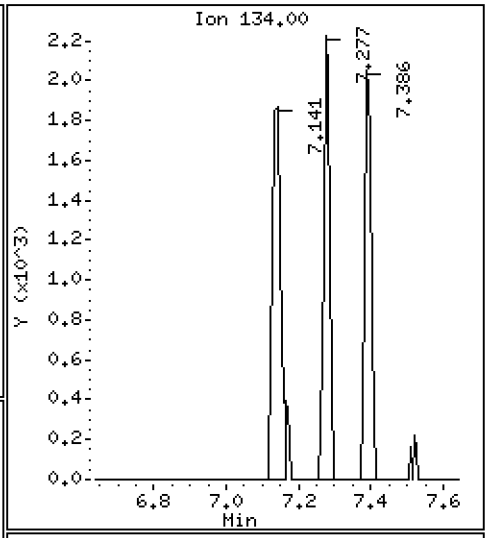
102 tert-Butylbenzene Concentration: 0.610887 ug/L

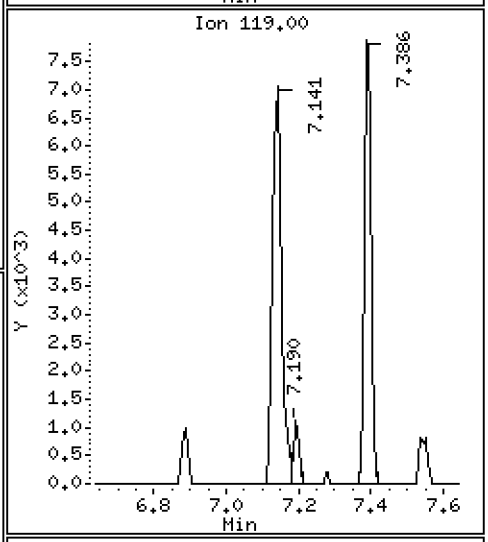


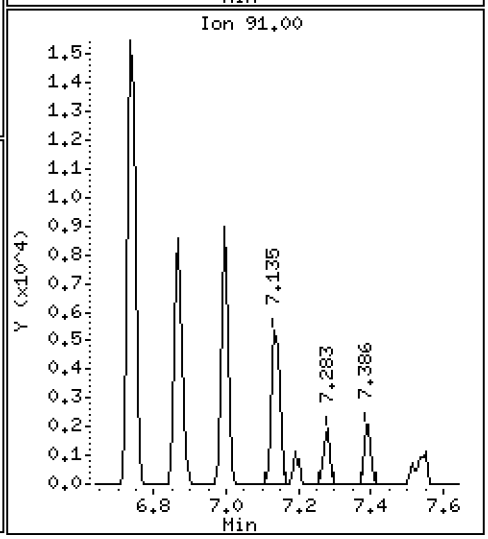












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 104

Date : 24-OCT-2016 23:25

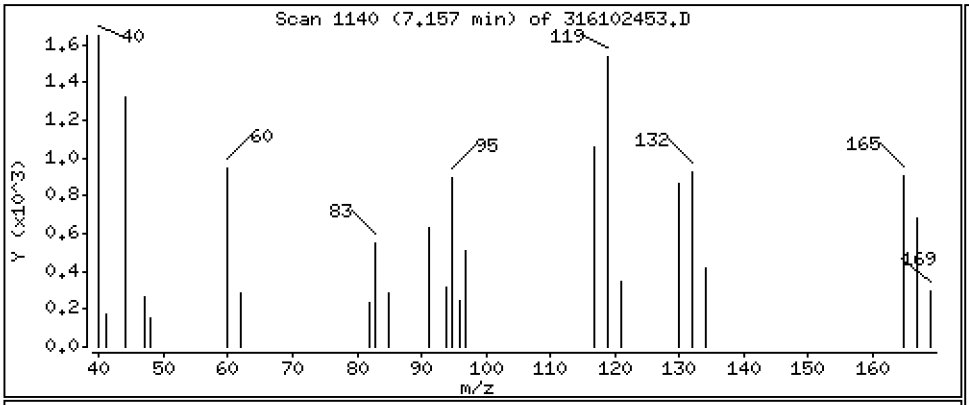
Client ID: Instrument: ms03.i

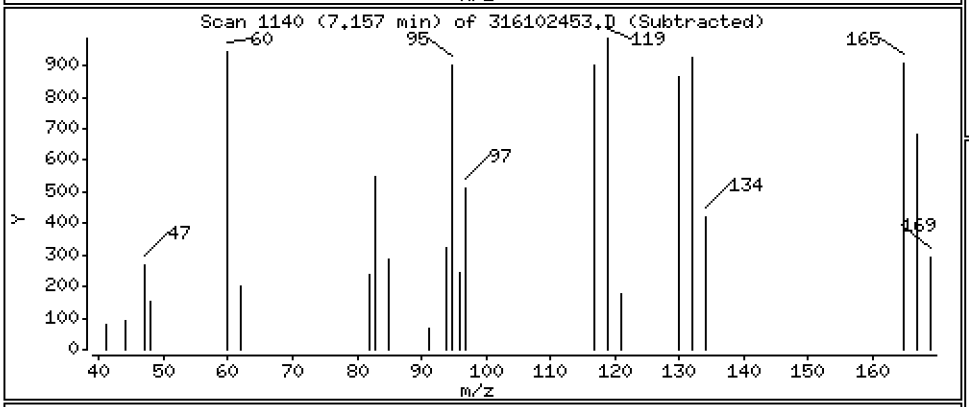
Sample Info: VSTD00.5;;1;1;8;;;

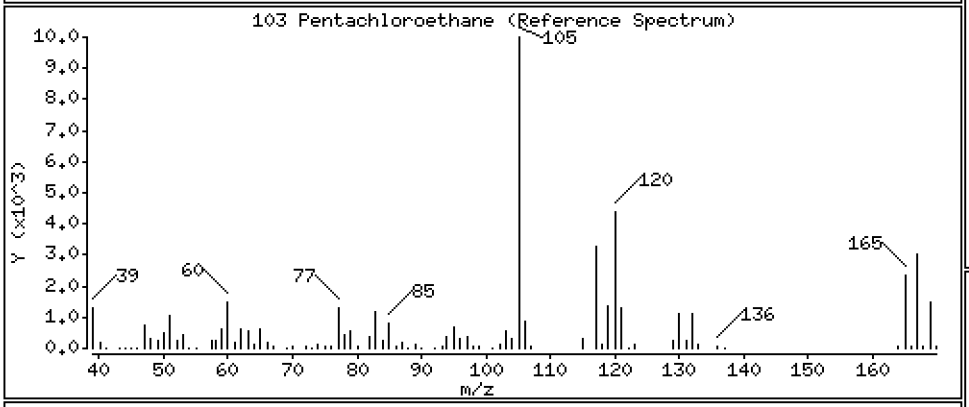
Purge Volume: 5.0 Operator: CJG

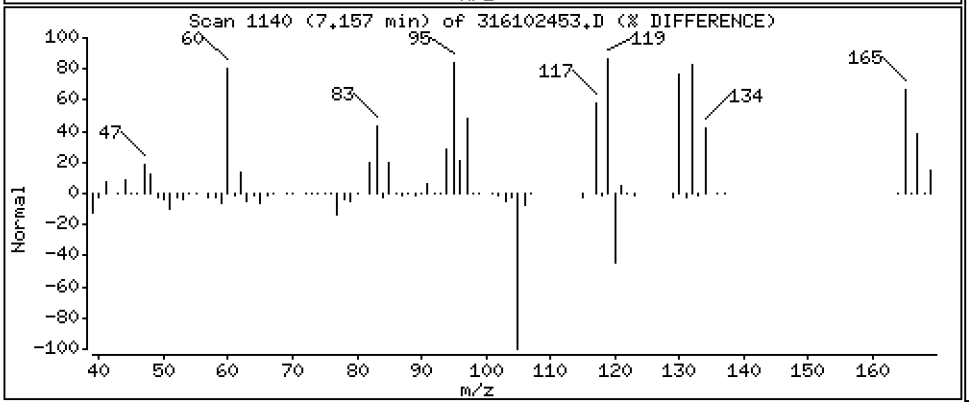
Column phase: DB-VRX Column diameter: 0.25

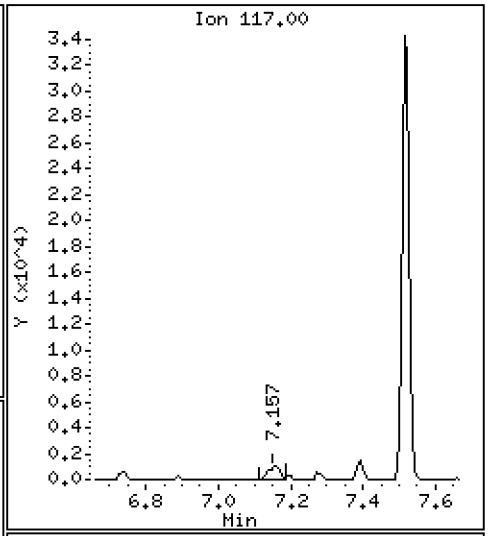
103 Pentachloroethane Concentration: 0.574449 ug/L

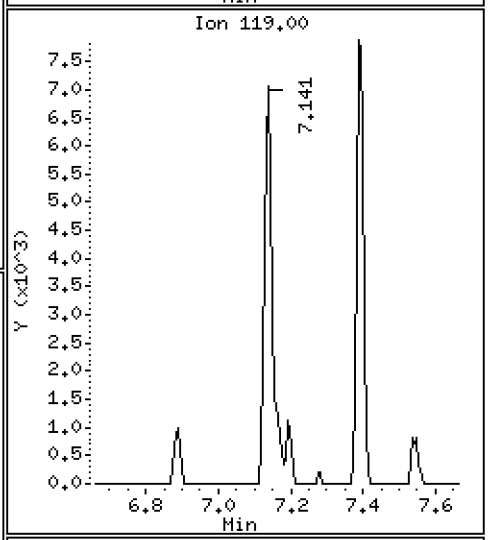


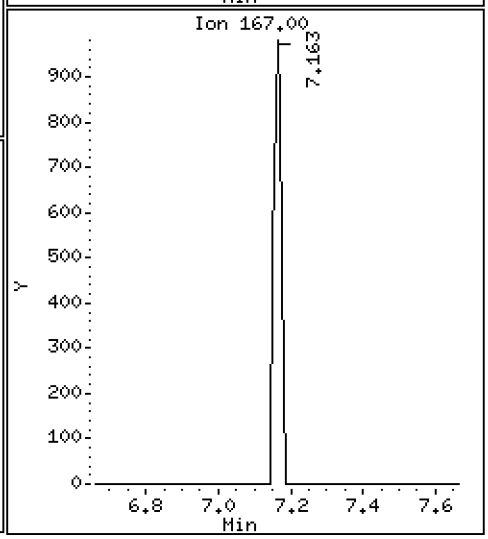












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 105

Date : 24-OCT-2016 23:25

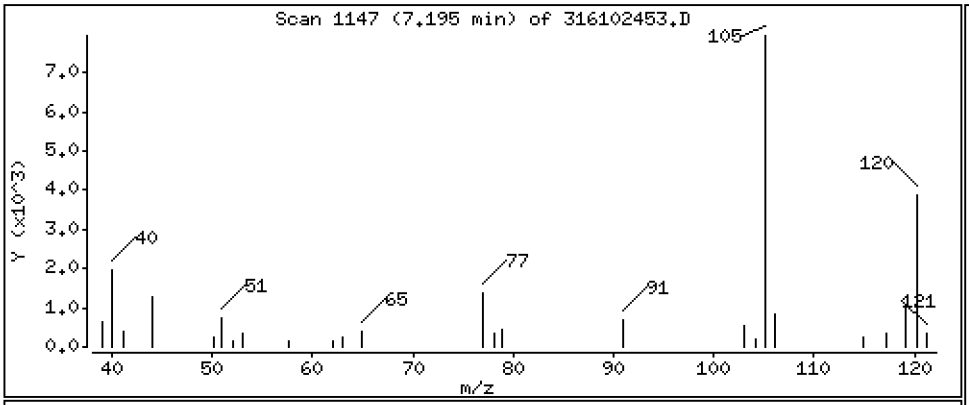
Client ID: Instrument: ms03.i

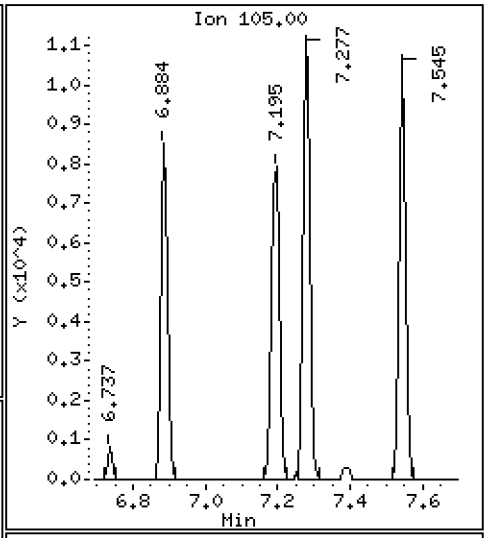
Sample Info: VSTD00.5;;1;1;8;;;

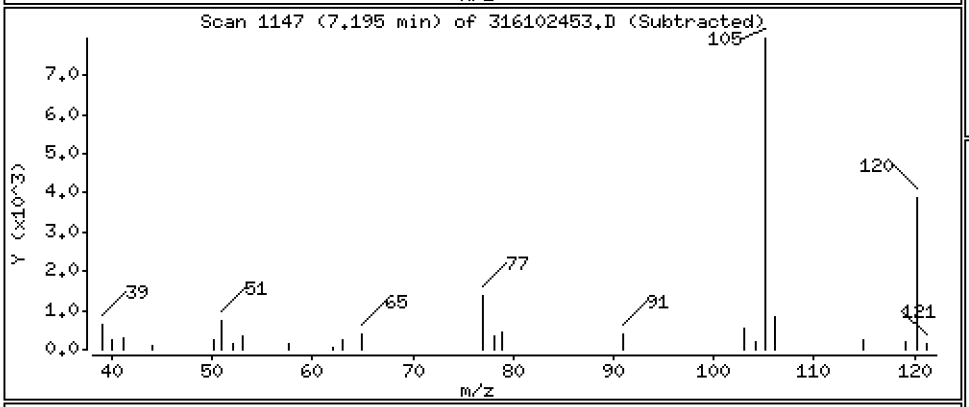
Purge Volume: 5.0 Operator: CJG

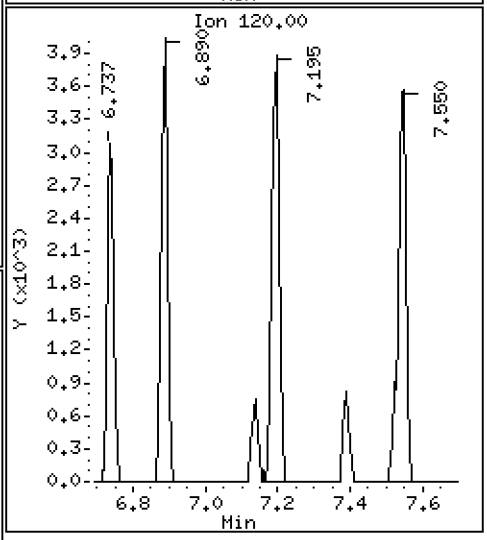
Column phase: DB-VRX Column diameter: 0.25

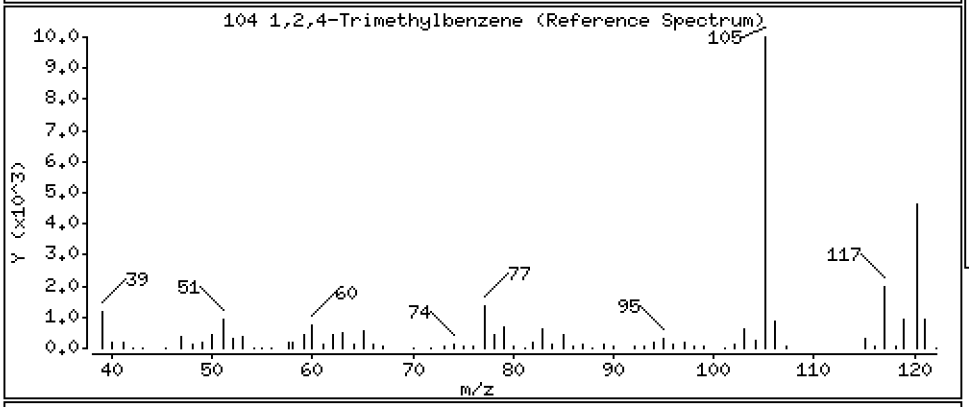
104 1,2,4-Trimethylbenzene Concentration: 0.510417 ug/L

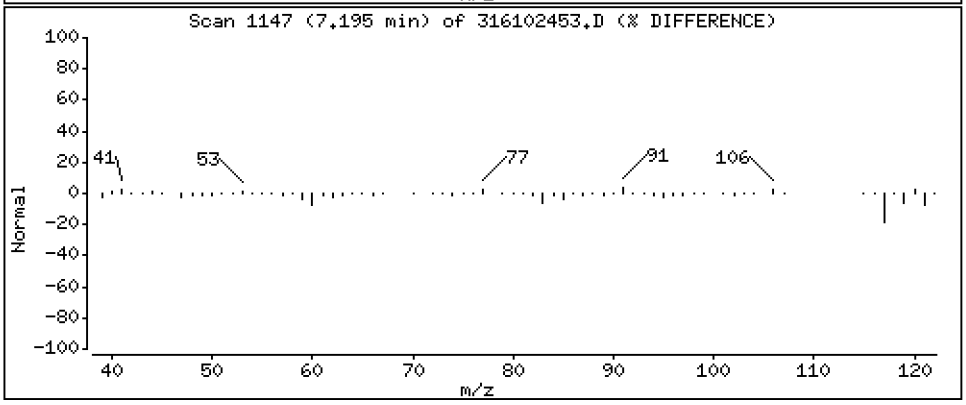












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 106

Date : 24-OCT-2016 23:25

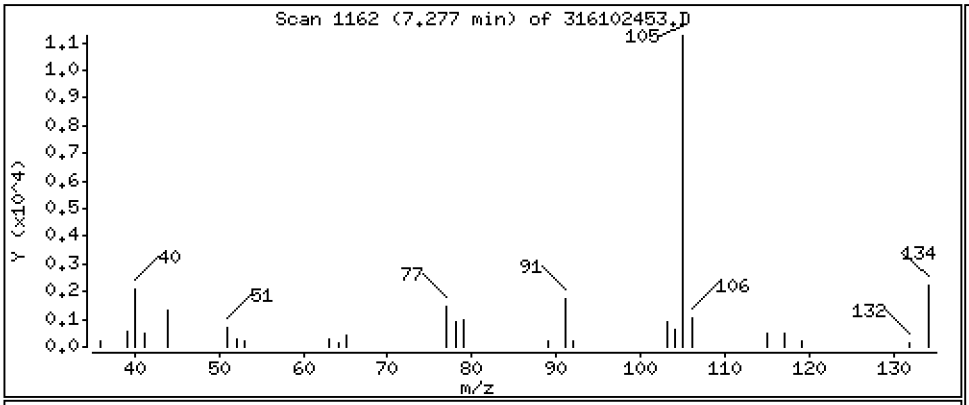
Client ID: Instrument: ms03.i

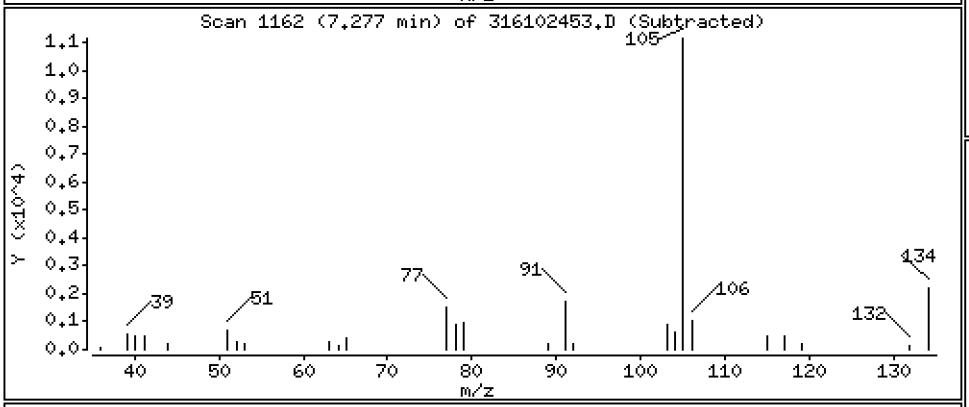
Sample Info: VSTD00.5;;1;1;8;;;

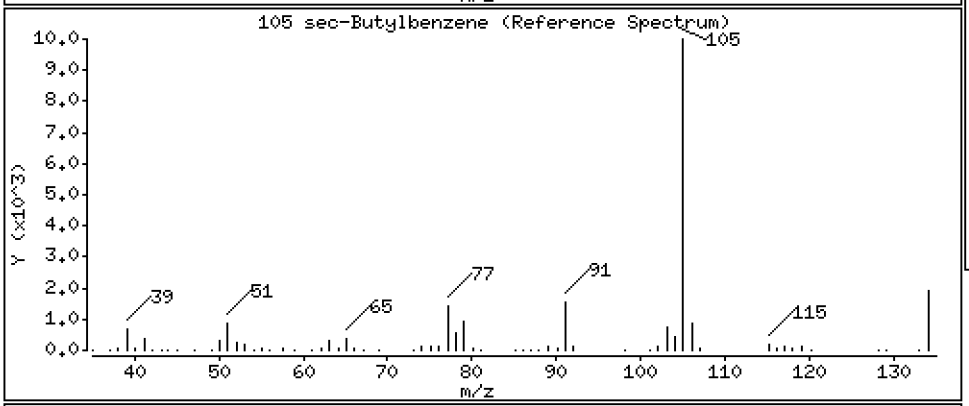
Purge Volume: 5.0 Operator: CJG

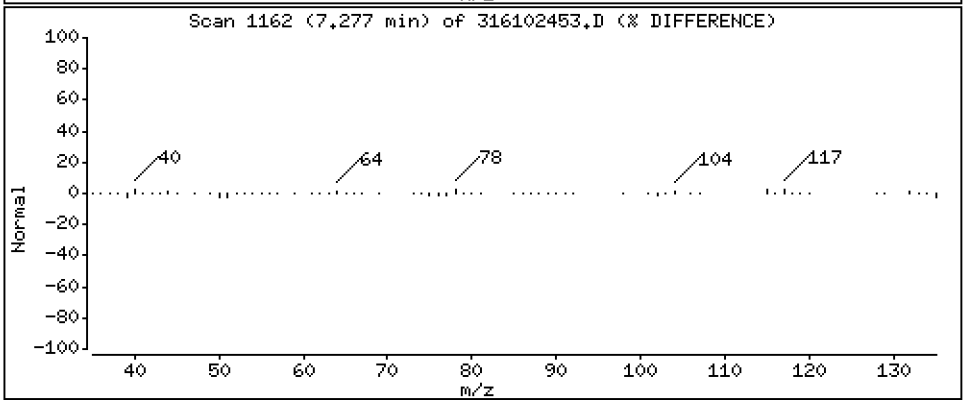
Column phase: DB-VRX Column diameter: 0.25

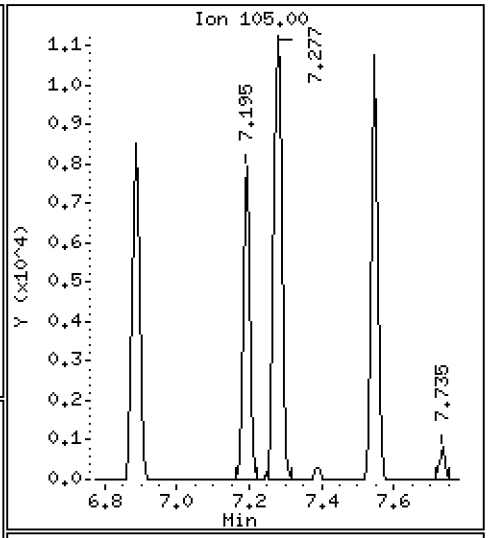
105 sec-Butylbenzene Concentration: 0.618733 ug/L

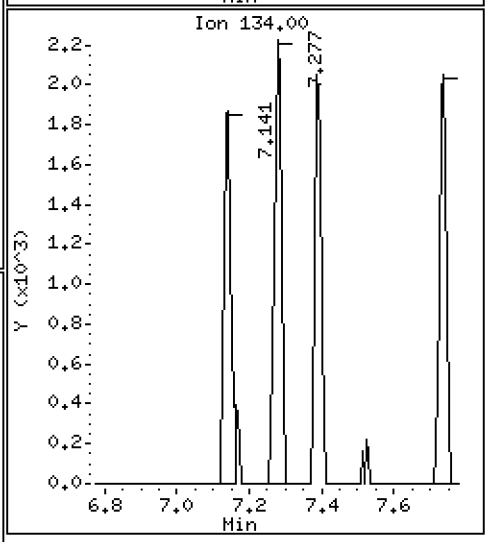












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 107

Date : 24-OCT-2016 23:25

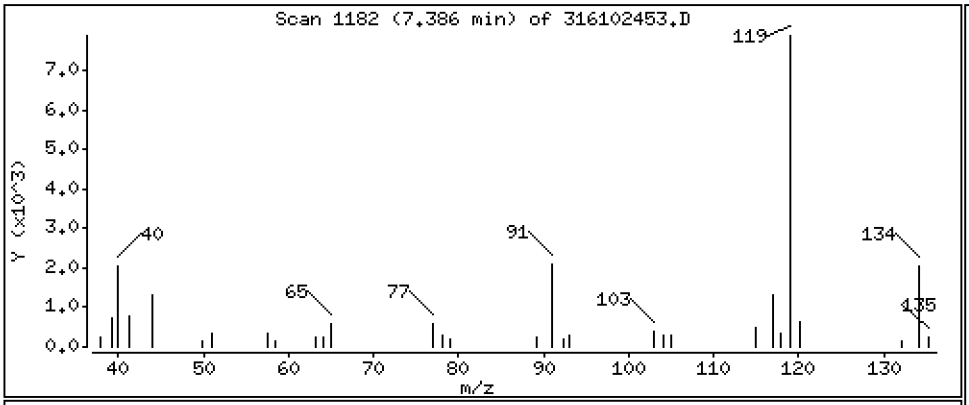
Client ID: Instrument: ms03.i

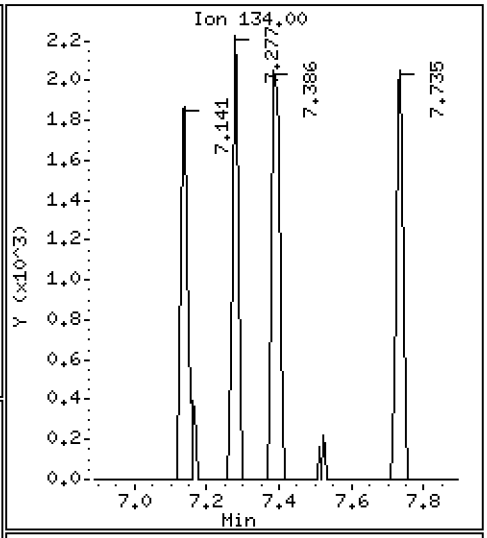
Sample Info: VSTD00.5;;1;1;8;;;

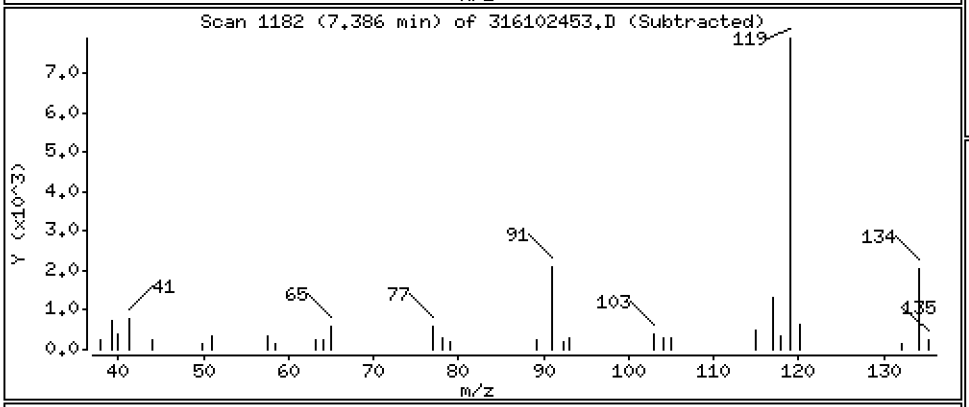
Purge Volume: 5.0 Operator: CJG

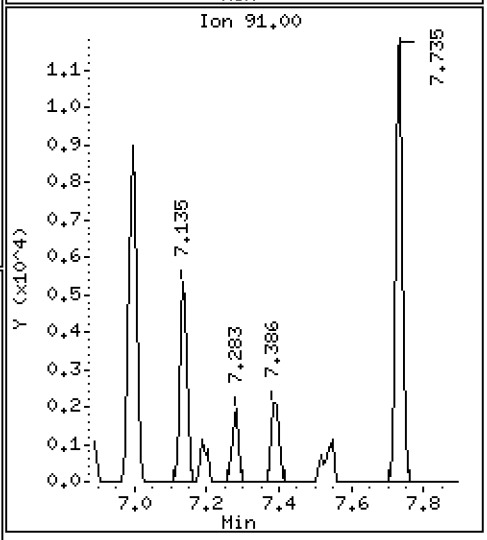
Column phase: DB-VRX Column diameter: 0.25

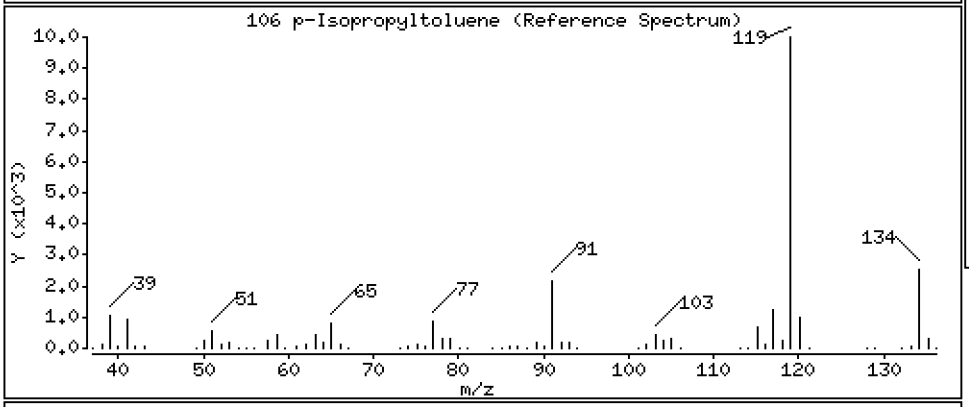
106 p-Isopropyltoluene Concentration: 0.552939 ug/L

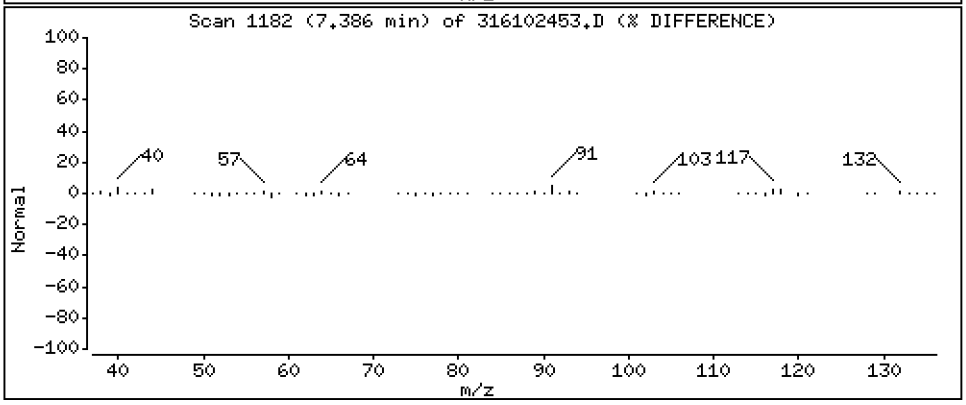












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 108

Date : 24-OCT-2016 23:25

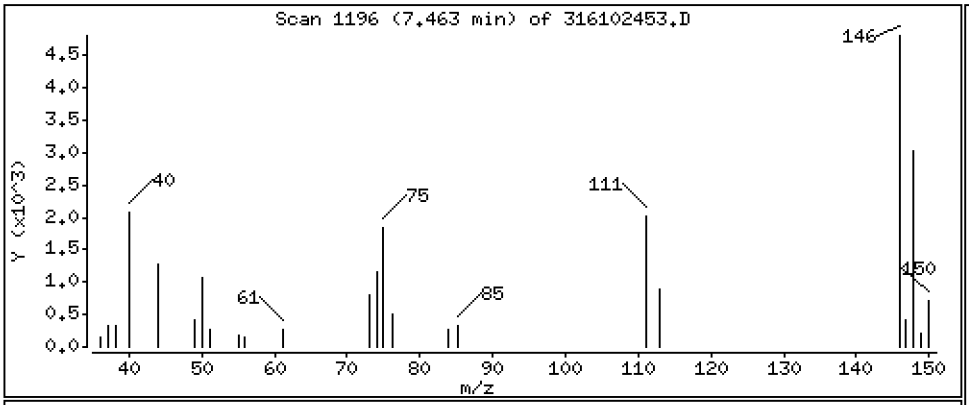
Client ID: Instrument: ms03.i

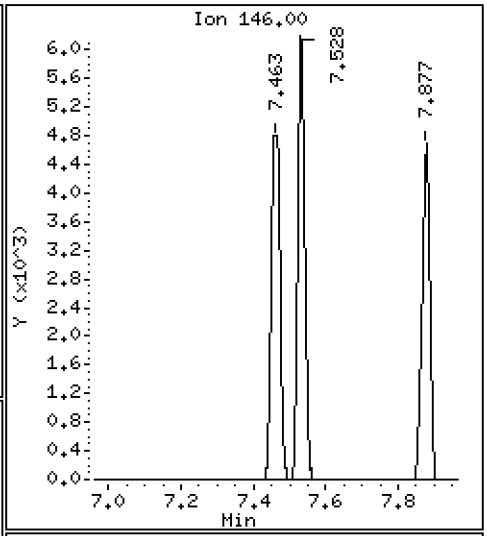
Sample Info: VSTD00.5;;1;1;8;;;

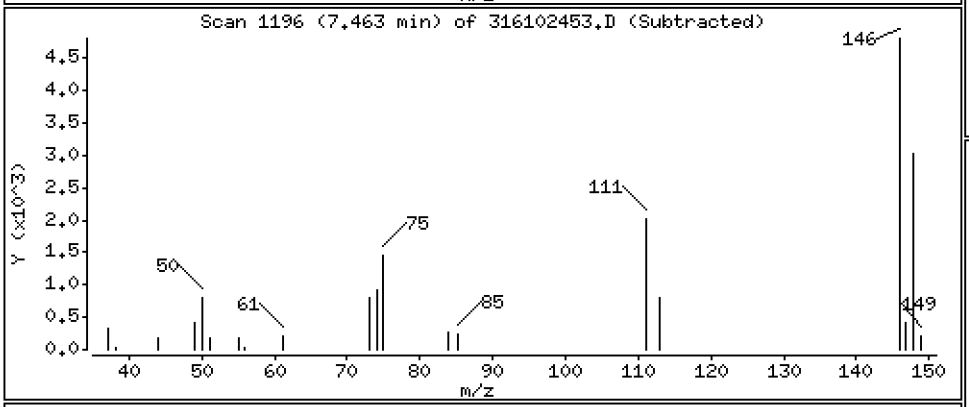
Purge Volume: 5.0 Operator: CJG

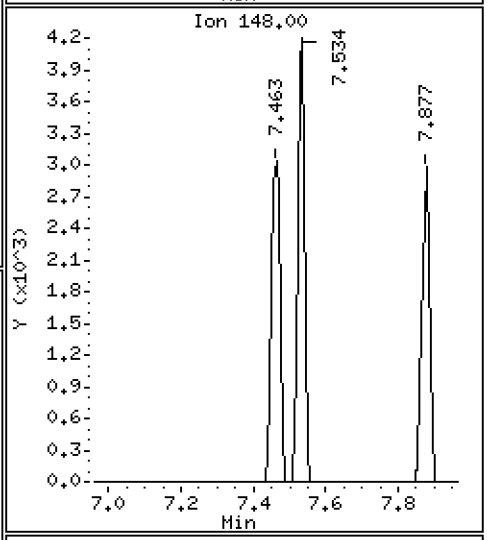
Column phase: DB-VRX Column diameter: 0.25

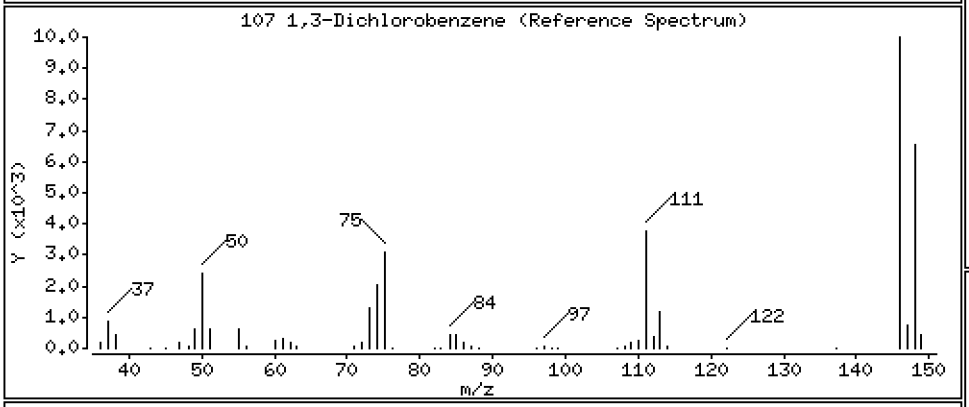
107 1,3-Dichlorobenzene Concentration: 0.730267 ug/L

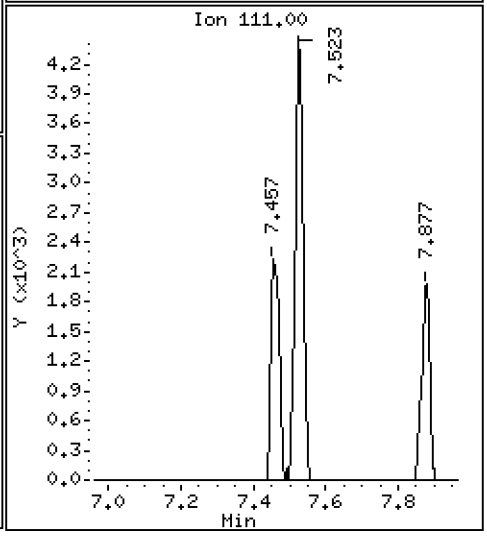


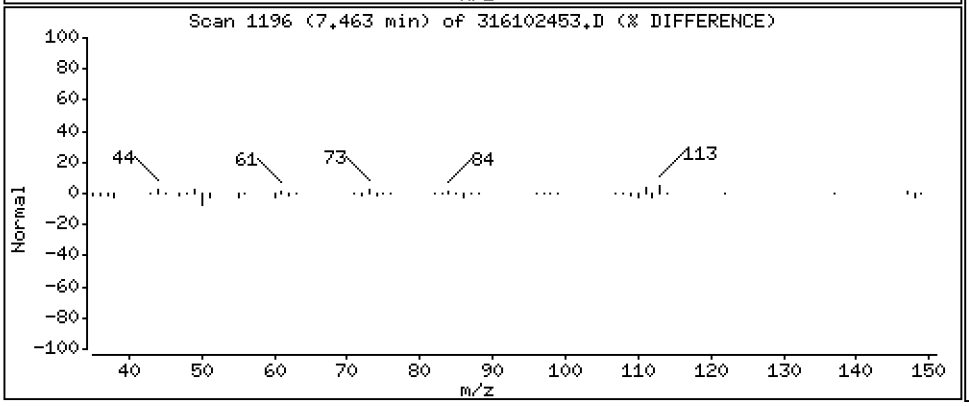












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 109

Date : 24-OCT-2016 23:25

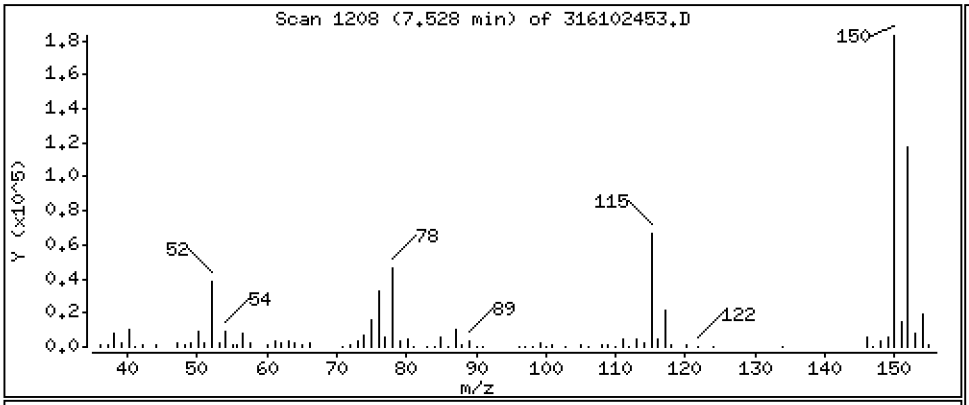
Client ID: Instrument: ms03.i

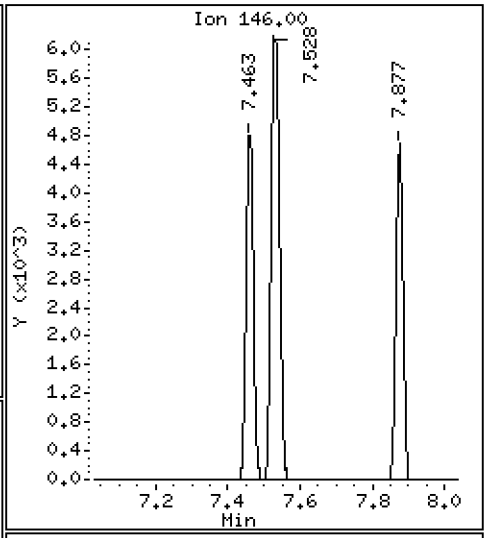
Sample Info: VSTD00.5;;1;1;8;;;

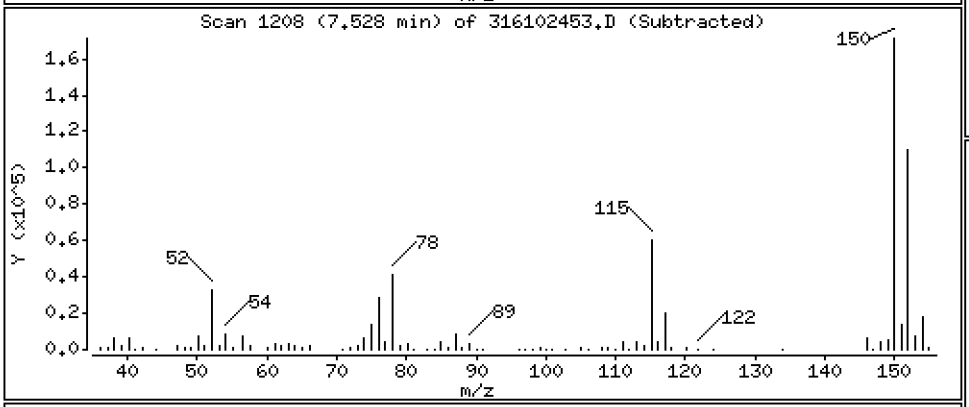
Purge Volume: 5.0 Operator: CJG

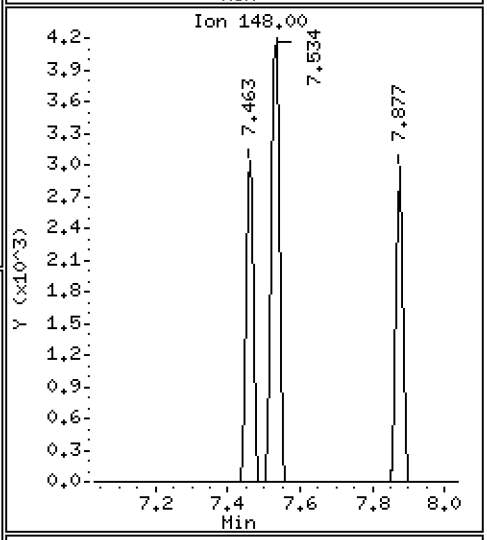
Column phase: DB-VRX Column diameter: 0.25

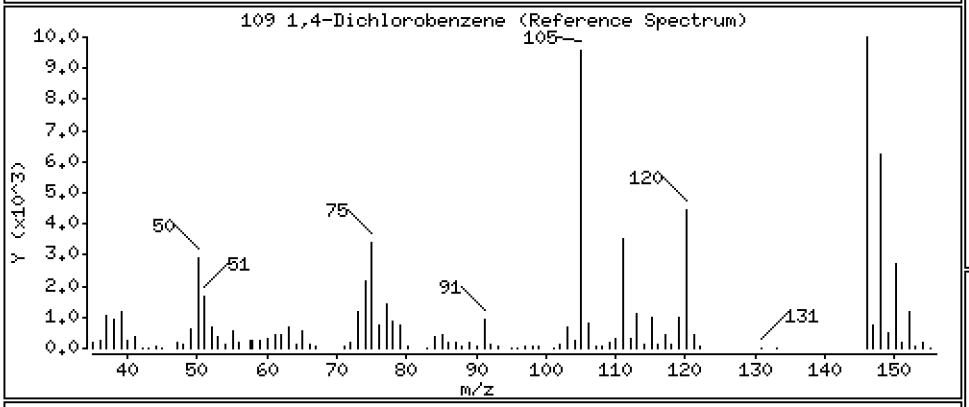
109 1,4-Dichlorobenzene Concentration: 0.875930 ug/L

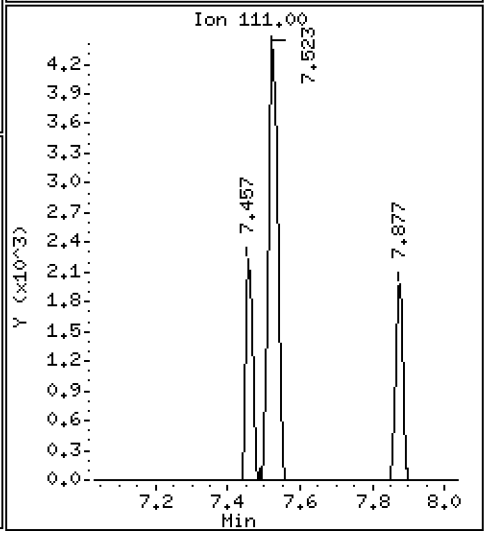


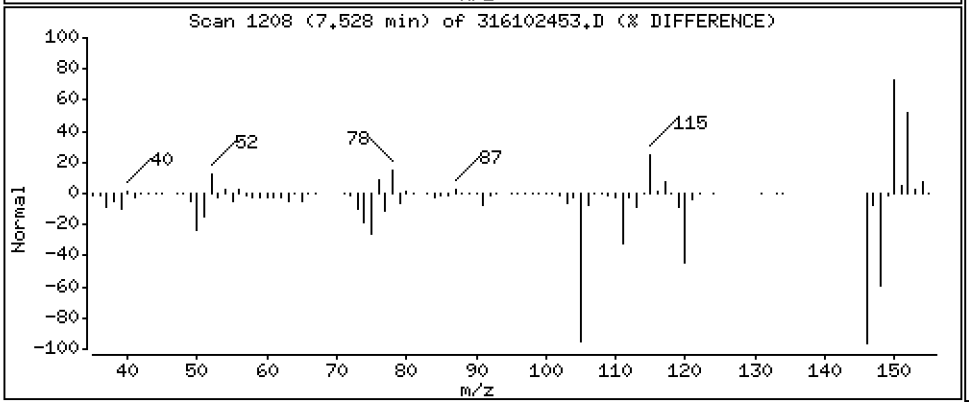












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 110

Date : 24-OCT-2016 23:25

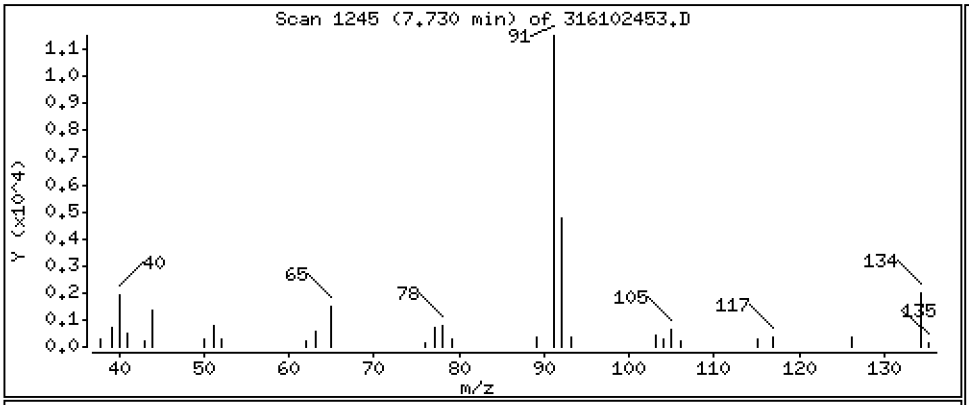
Client ID: Instrument: ms03.i

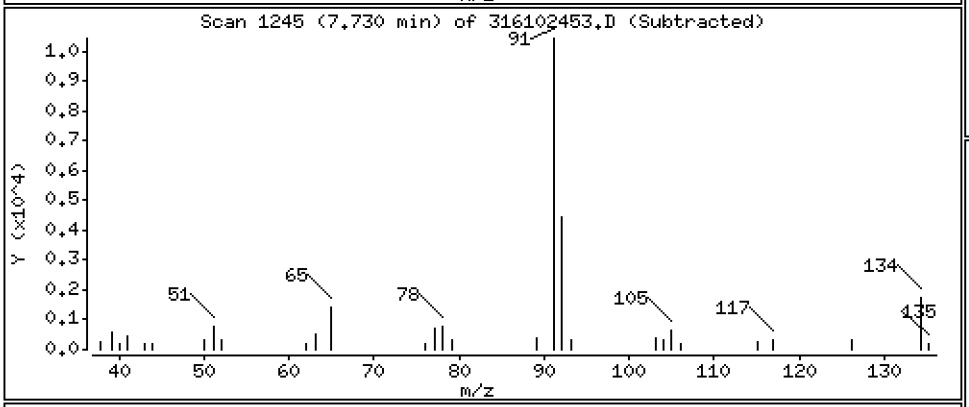
Sample Info: VSTD00.5;;1;1;8;;;

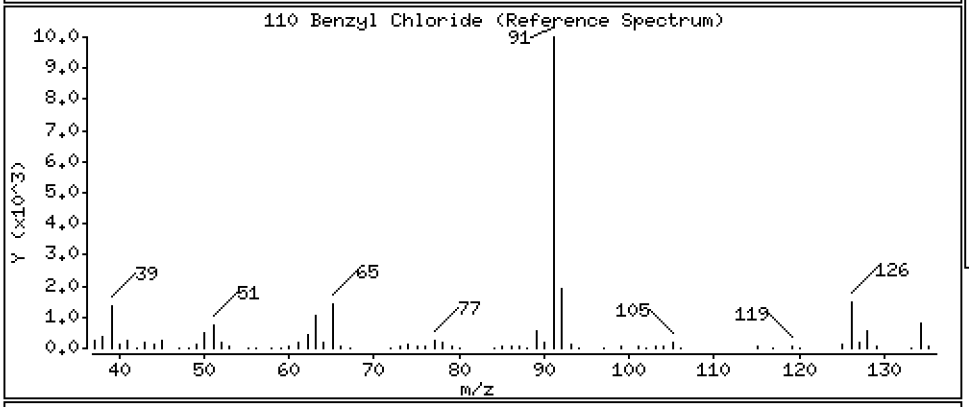
Purge Volume: 5.0 Operator: CJG

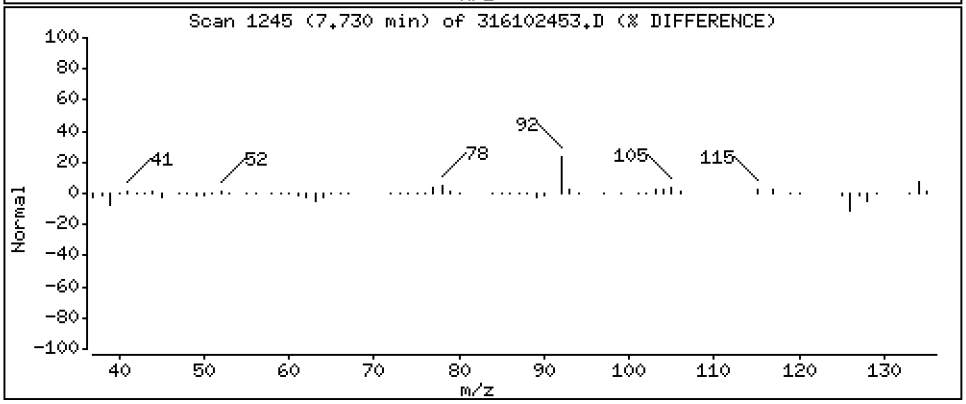
Column phase: DB-VRX Column diameter: 0.25

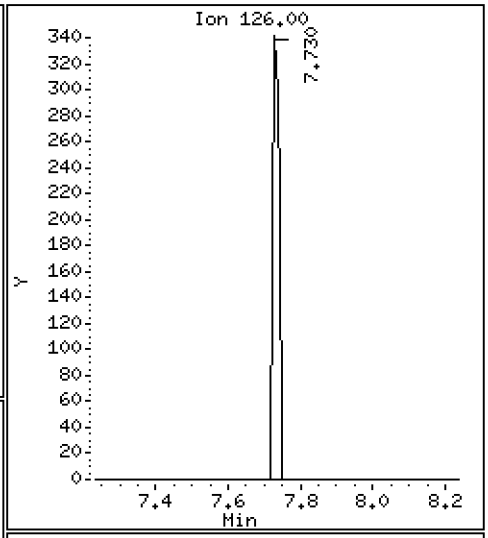
110 Benzyl Chloride Concentration: 0.285460 ug/L

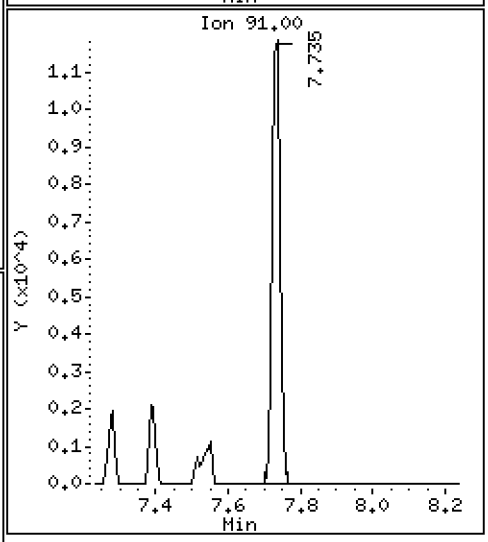












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 111

Date : 24-OCT-2016 23:25

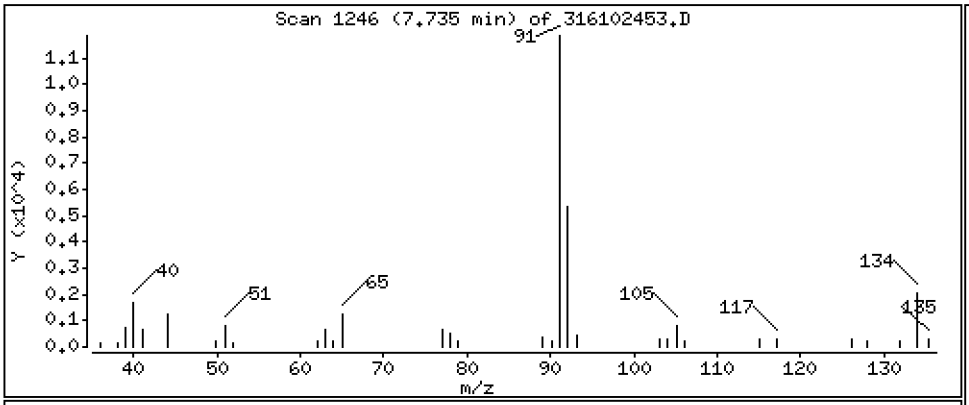
Client ID: Instrument: ms03.i

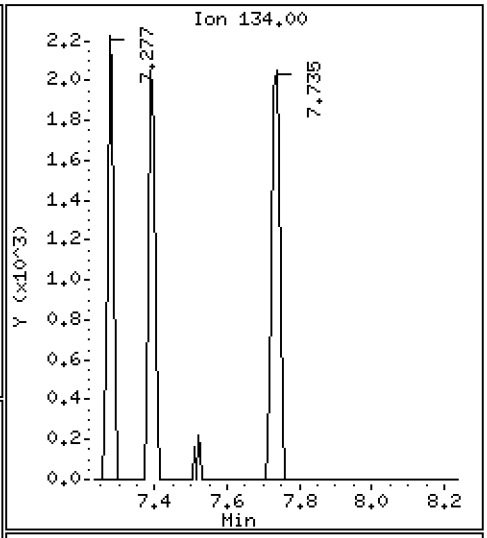
Sample Info: VSTD00.5;;1;1;8;;;

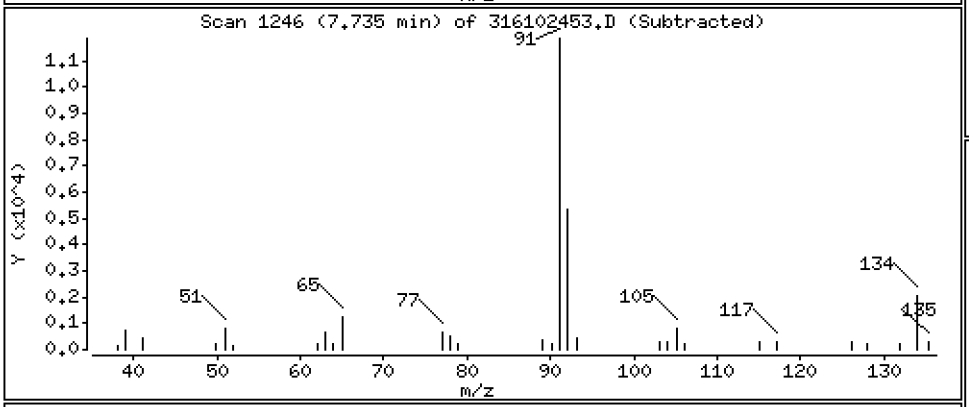
Purge Volume: 5.0 Operator: CJG

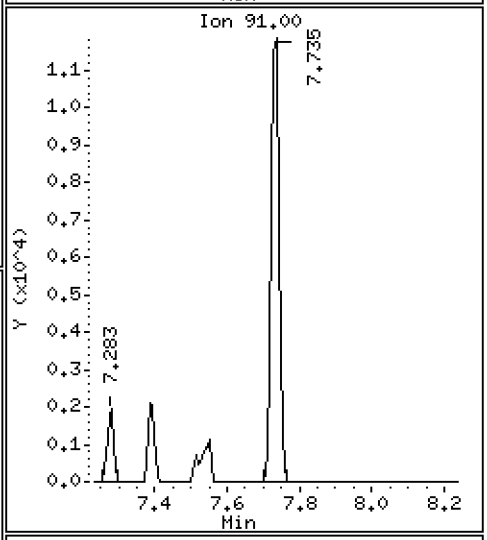
Column phase: DB-VRX Column diameter: 0.25

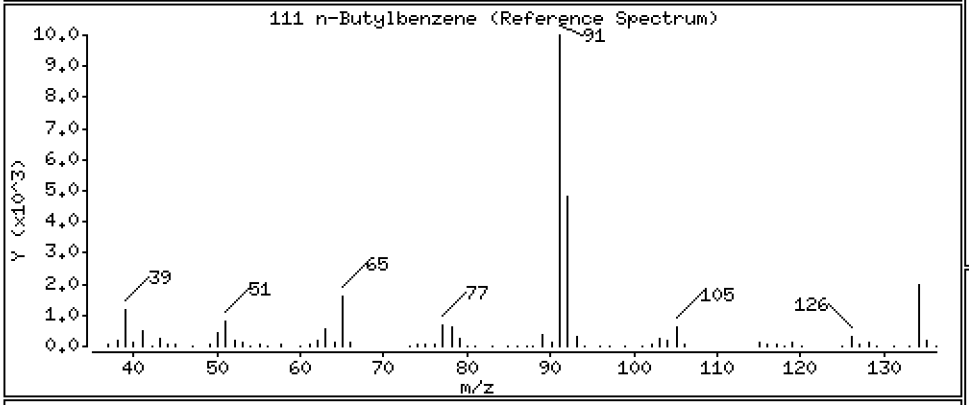
111 n-Butylbenzene Concentration: 0.674087 ug/L

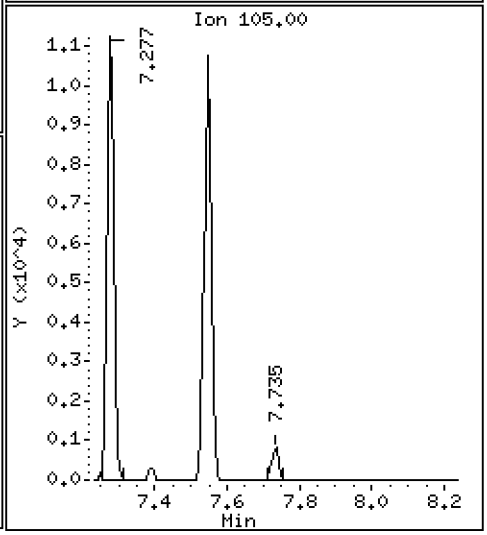


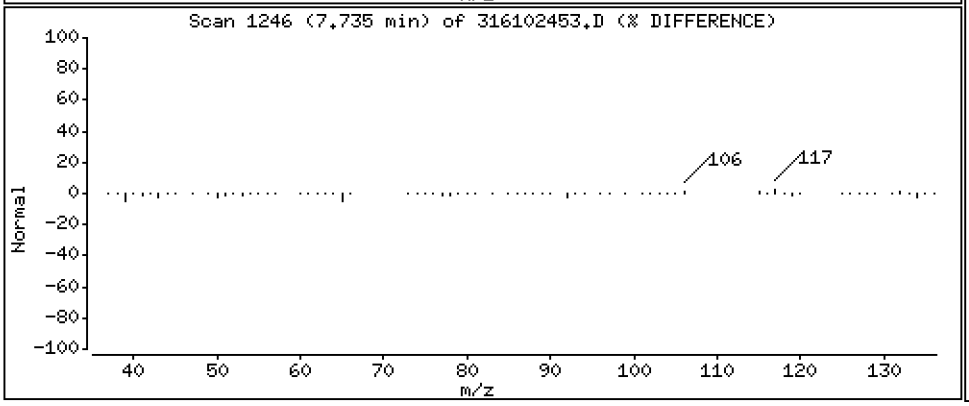












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 112

Date : 24-OCT-2016 23:25

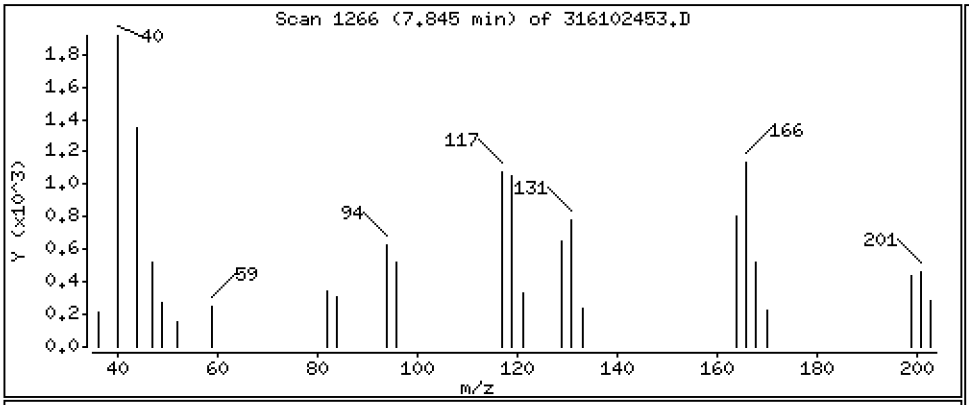
Client ID: Instrument: ms03.i

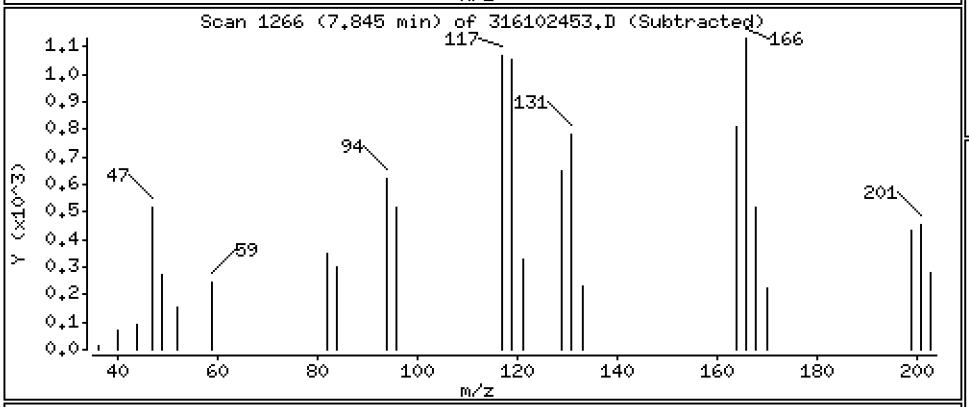
Sample Info: VSTD00.5;;1;1;8;;;

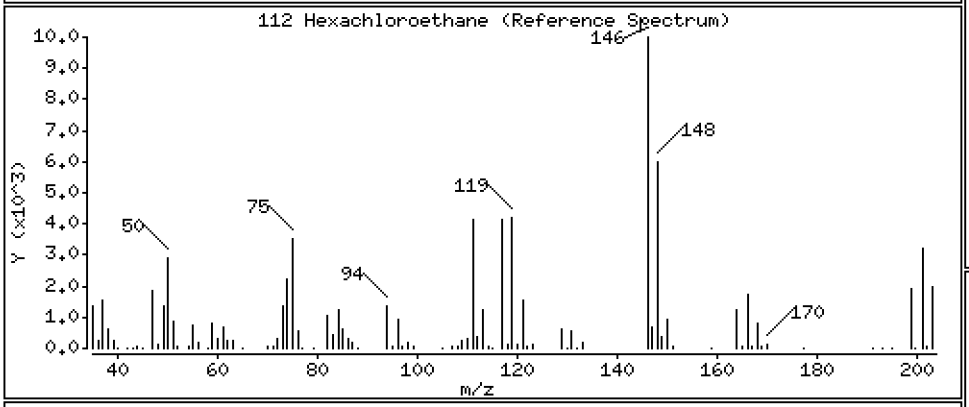
Purge Volume: 5.0 Operator: CJG

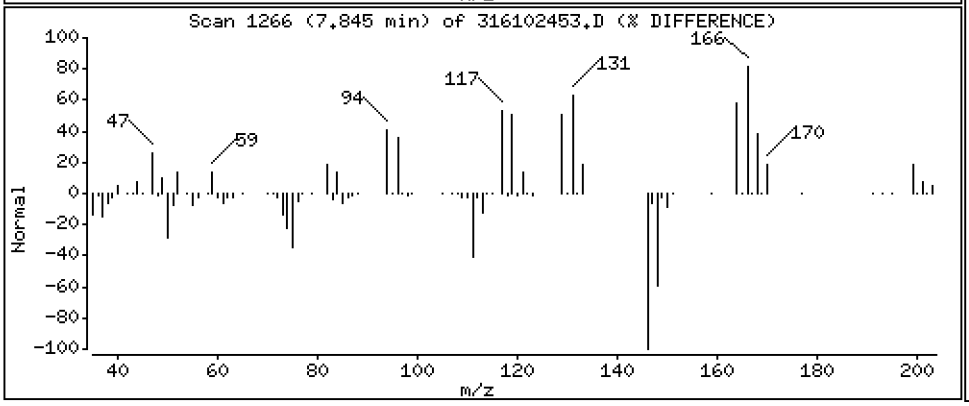
Column phase: DB-VRX Column diameter: 0.25

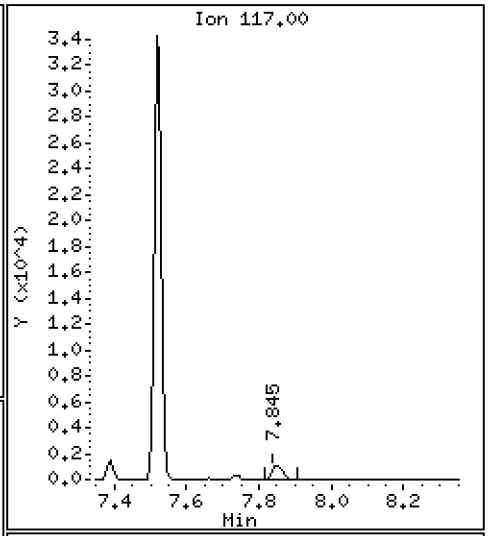
112 Hexachloroethane Concentration: 0.665106 ug/L

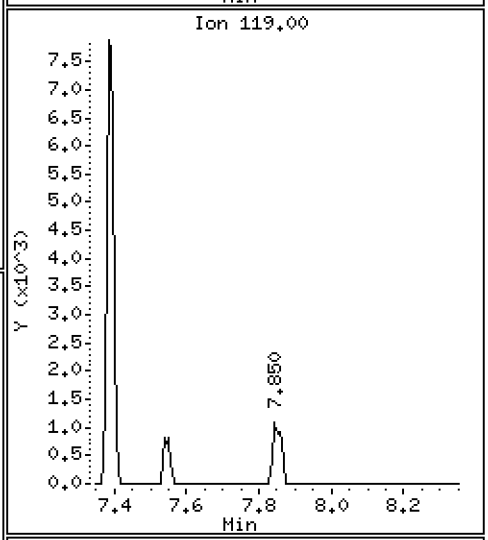


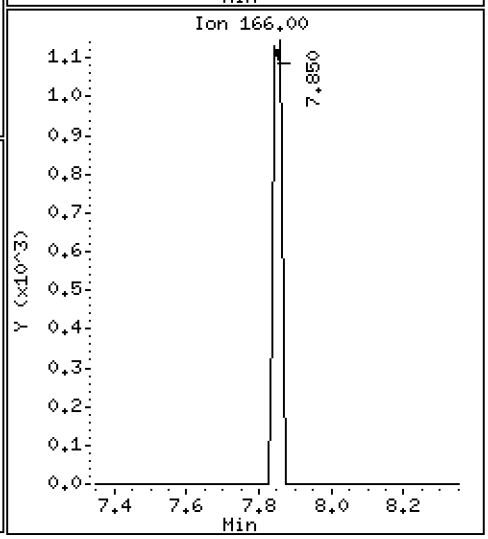












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 113

Date : 24-OCT-2016 23:25

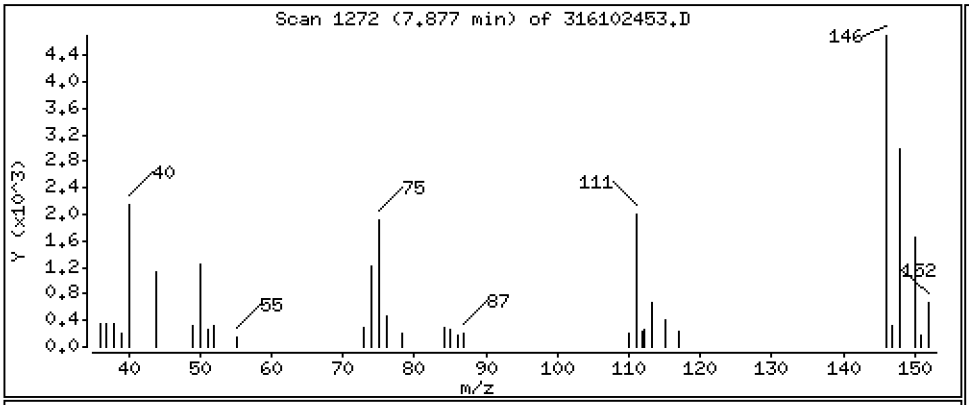
Client ID: Instrument: ms03.i

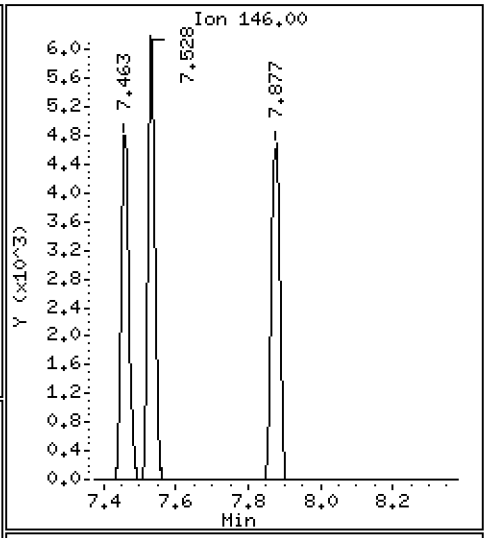
Sample Info: VSTD00.5;;1;1;8;;;

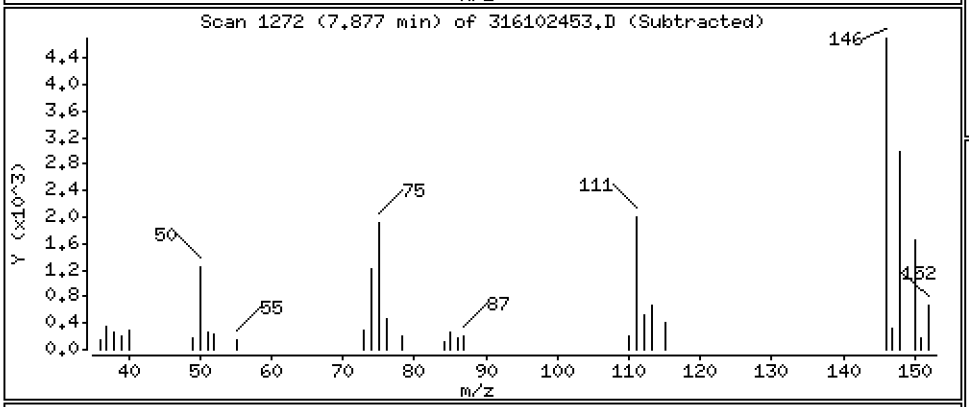
Purge Volume: 5.0 Operator: CJG

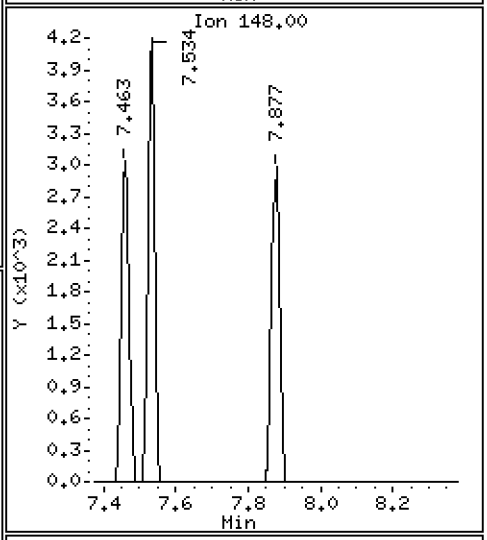
Column phase: DB-VRX Column diameter: 0.25

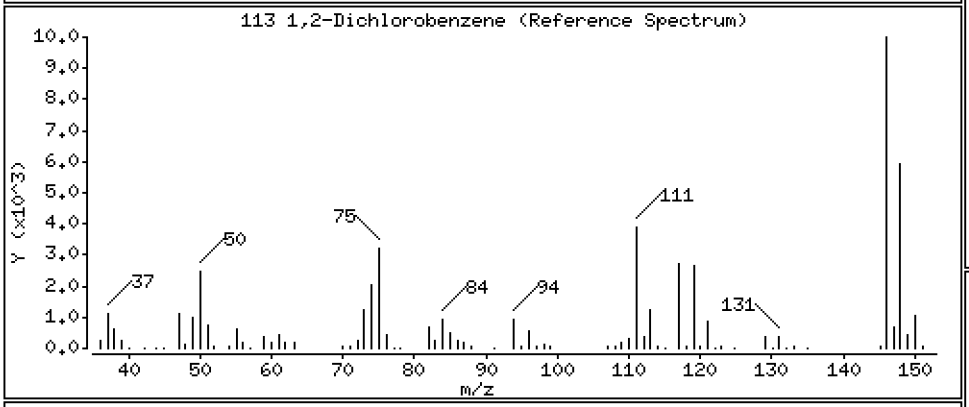
113 1,2-Dichlorobenzene Concentration: 0.754170 ug/L

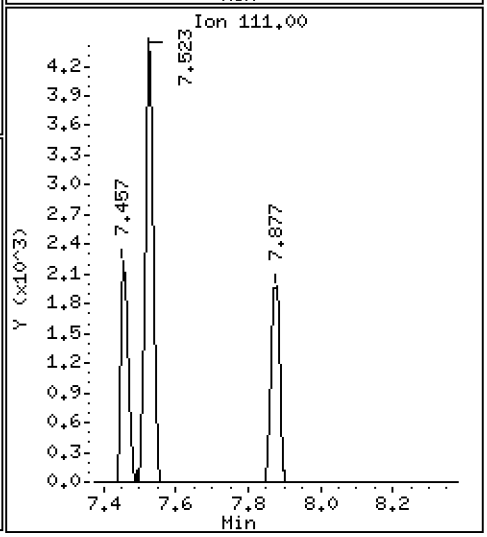


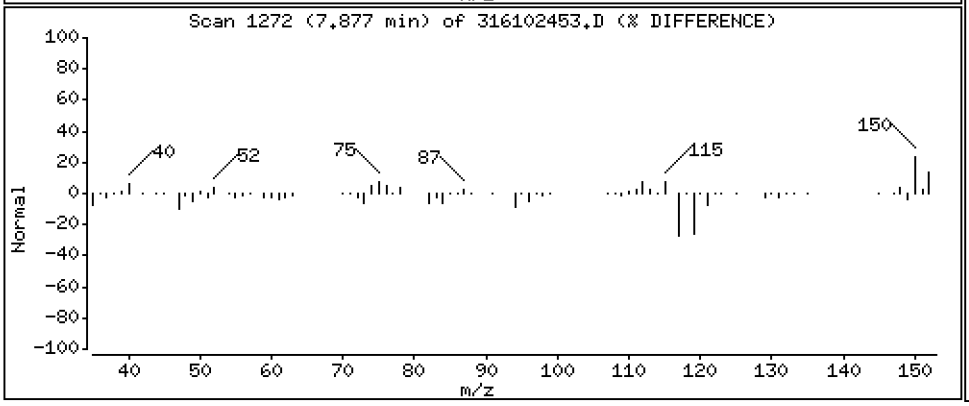












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 114

Date : 24-OCT-2016 23:25

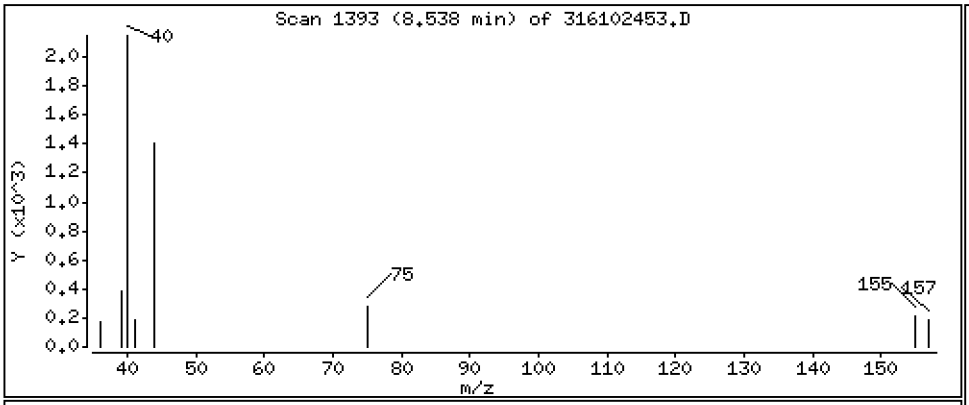
Client ID: Instrument: ms03.i

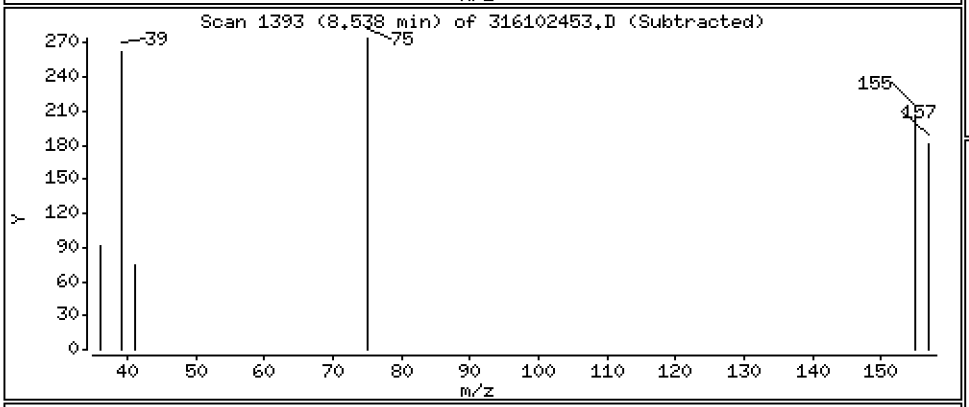
Sample Info: VSTD00.5;;1;1;8;;;

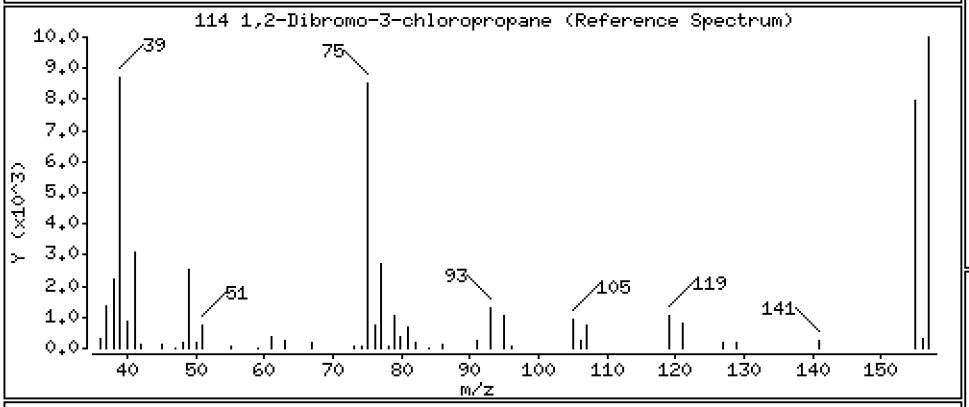
Purge Volume: 5.0 Operator: CJG

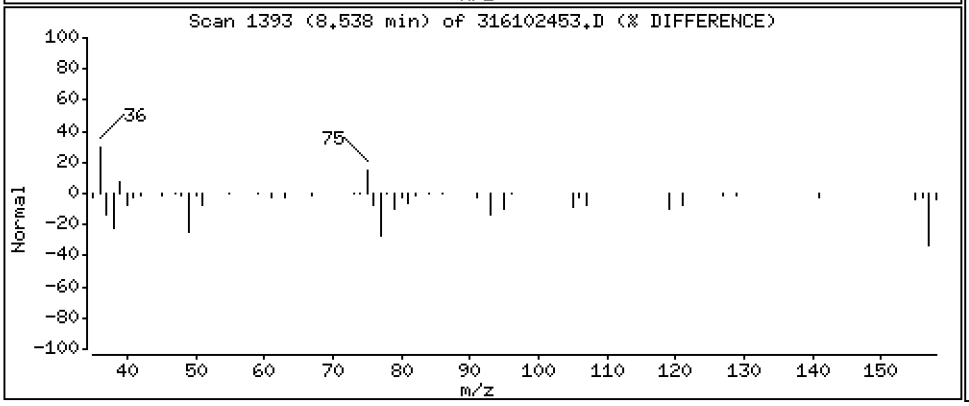
Column phase: DB-VRX Column diameter: 0.25

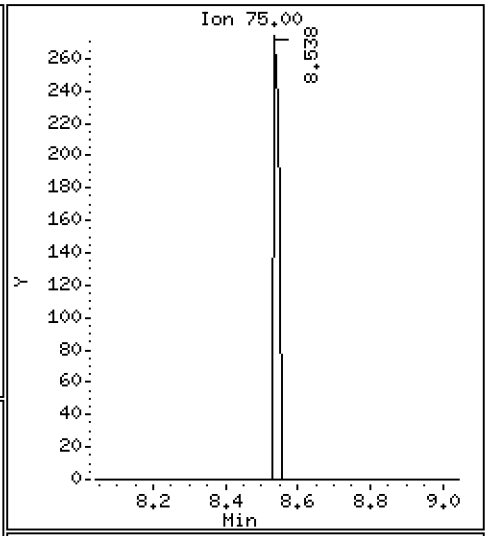
114 1,2-Dibromo-3-chloropropane Concentration: 0.317138 ug/L

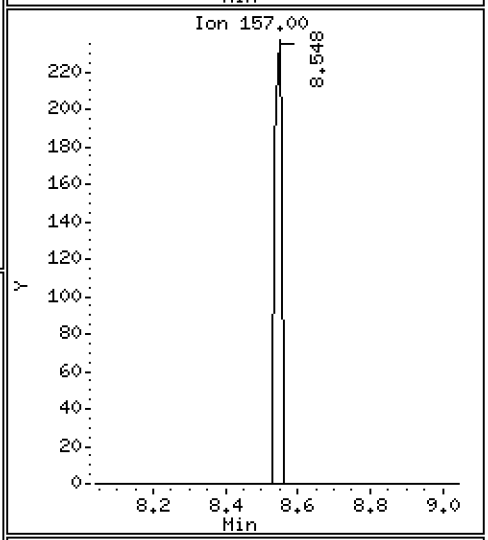


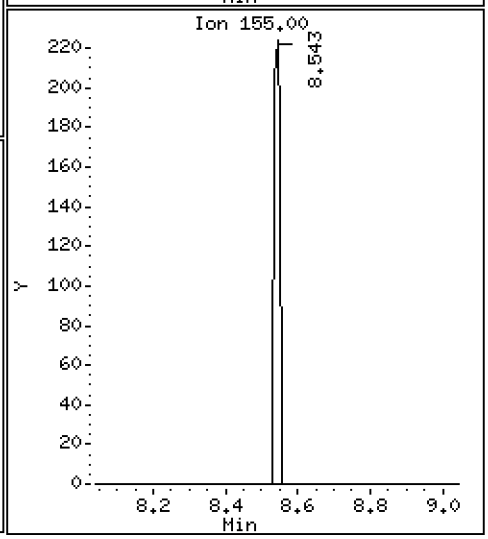












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 115

Date : 24-OCT-2016 23:25

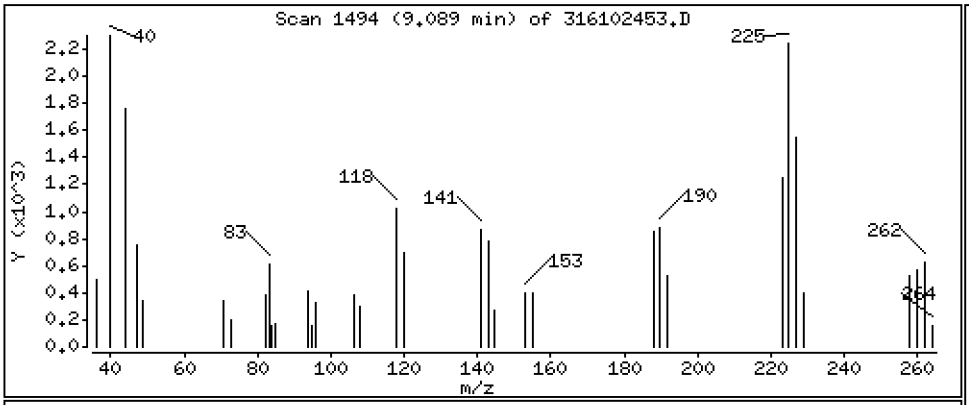
Client ID: Instrument: ms03.i

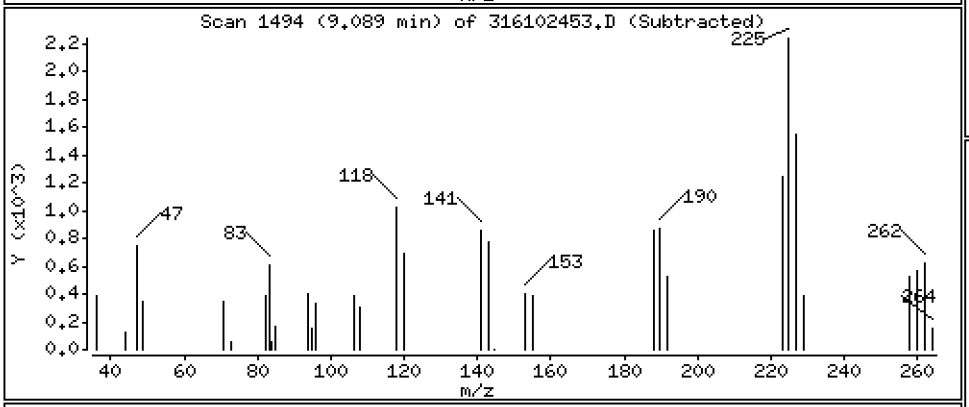
Sample Info: VSTD00.5;;1;1;8;;;

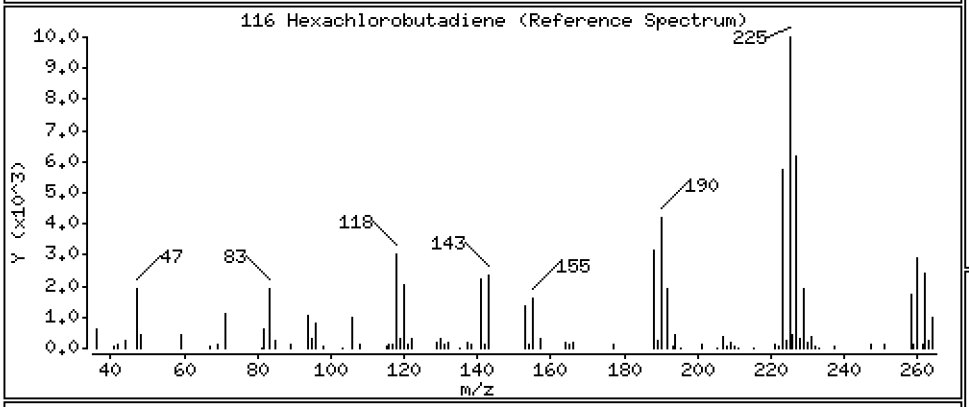
Purge Volume: 5.0 Operator: CJG

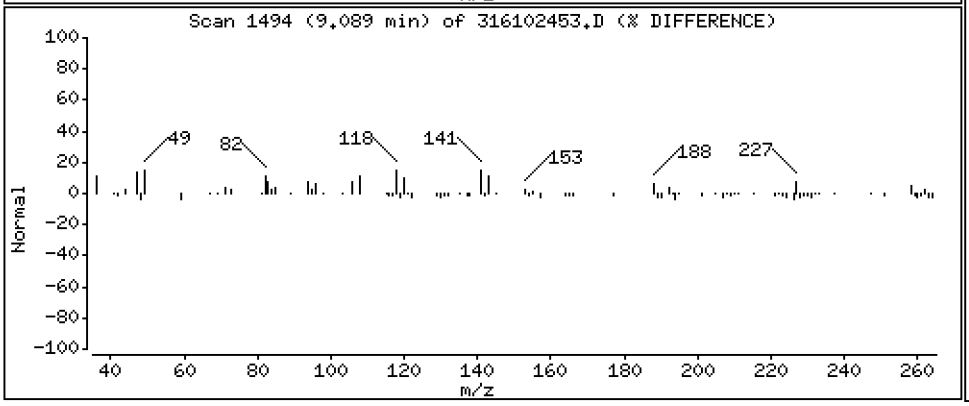
Column phase: DB-VRX Column diameter: 0.25

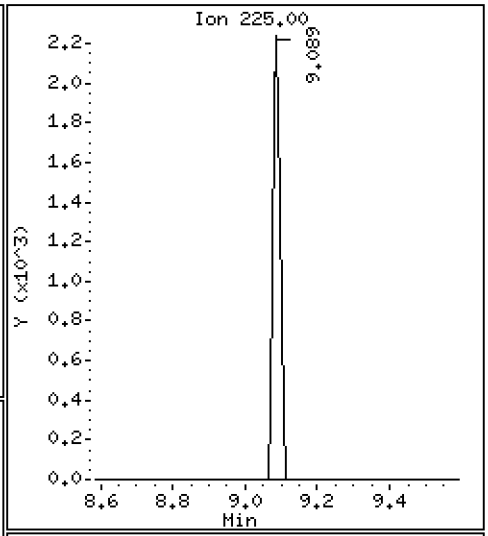
116 Hexachlorobutadiene Concentration: 1.65608 ug/L

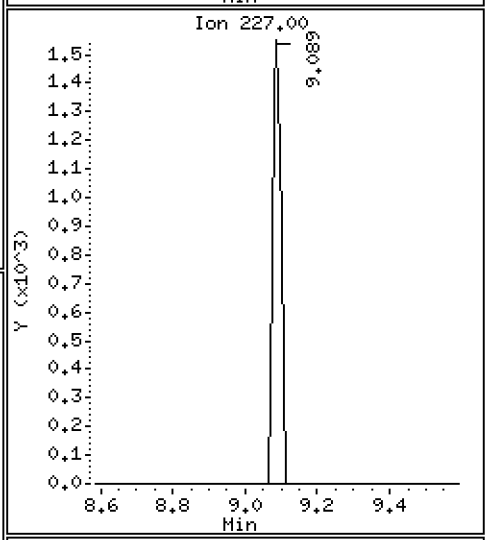


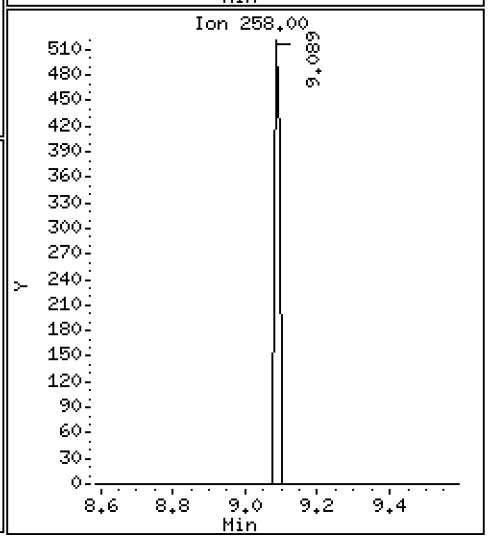












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 116

Date : 24-OCT-2016 23:25

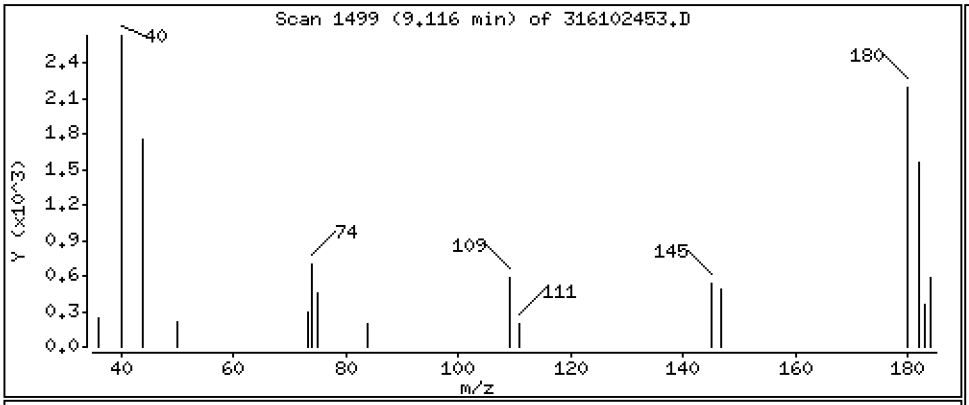
Client ID: Instrument: ms03.i

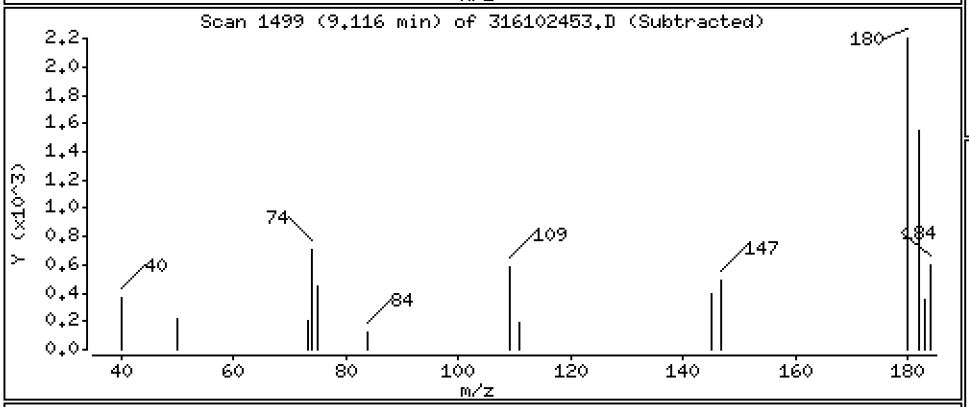
Sample Info: VSTD00.5;;1;1;8;;;

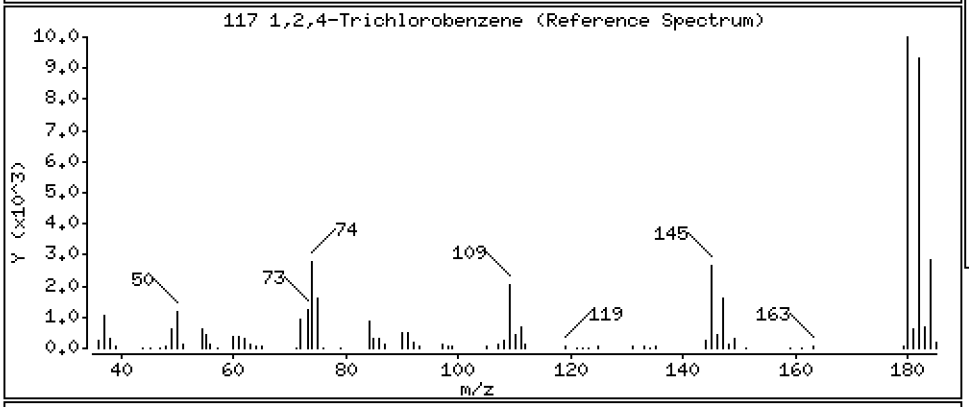
Purge Volume: 5.0 Operator: CJG

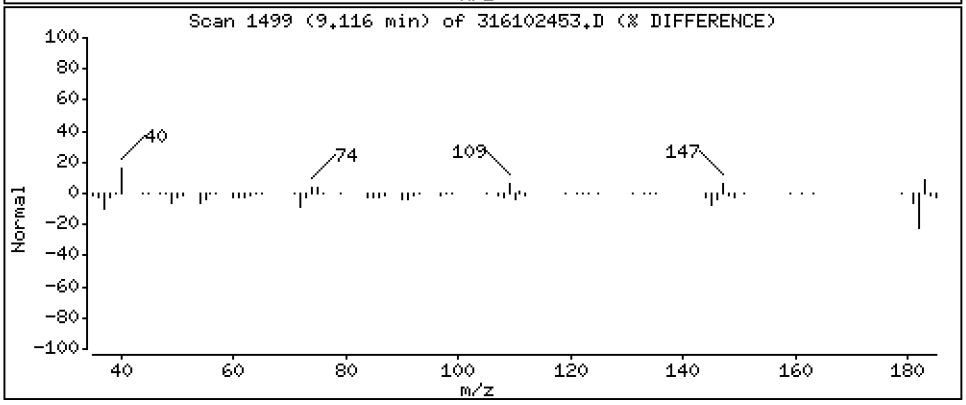
Column phase: DB-VRX Column diameter: 0.25

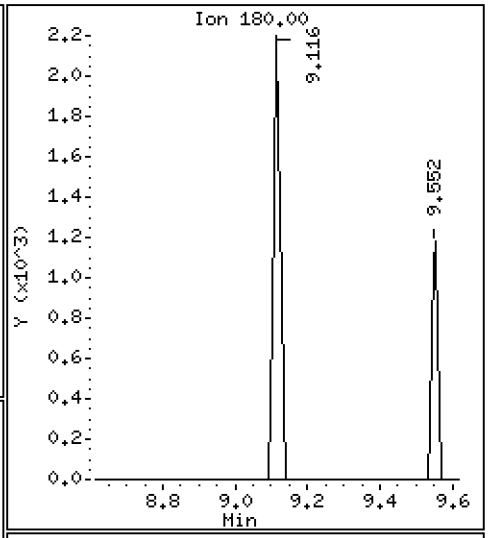
117 1,2,4-Trichlorobenzene Concentration: 0.682631 ug/L

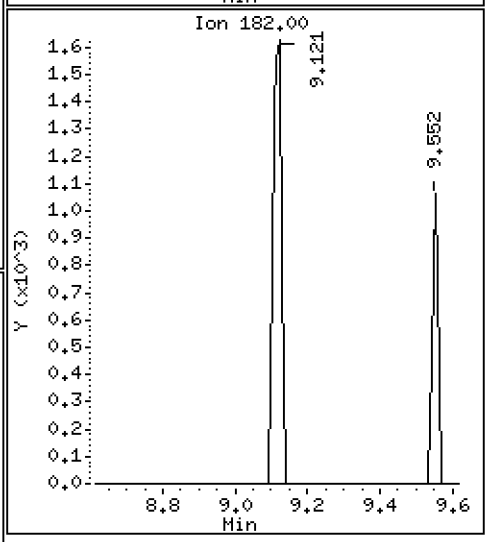












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 117

Date : 24-OCT-2016 23:25

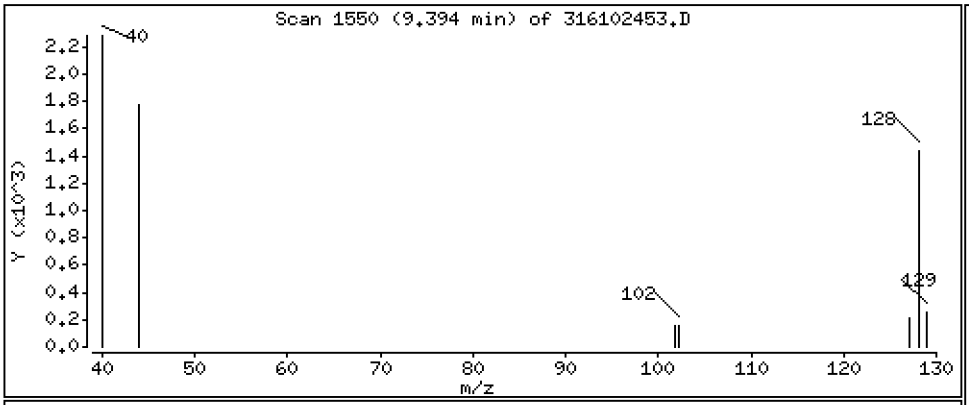
Client ID: Instrument: ms03.i

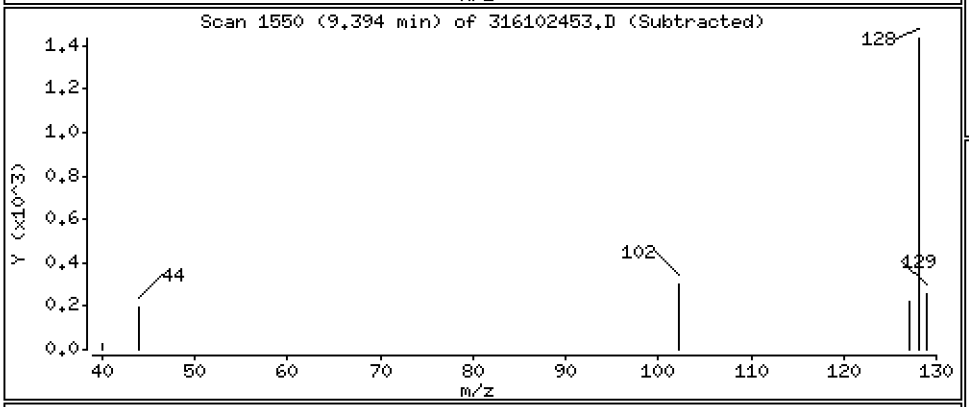
Sample Info: VSTD00.5;;1;1;8;;;

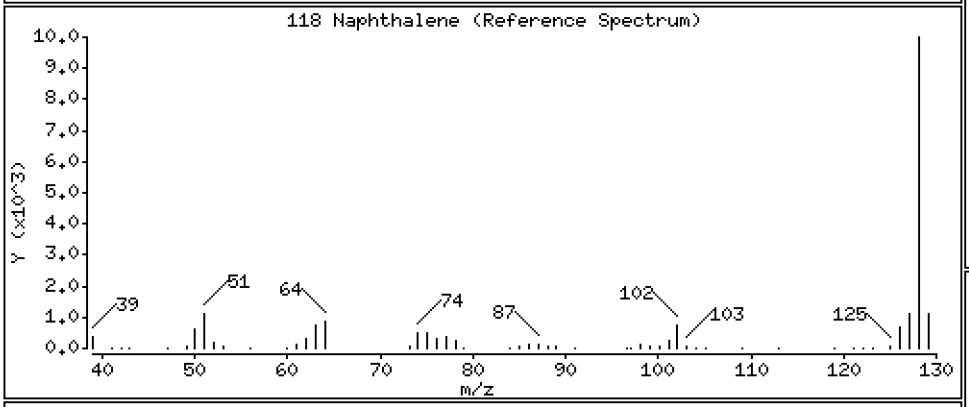
Purge Volume: 5.0 Operator: CJG

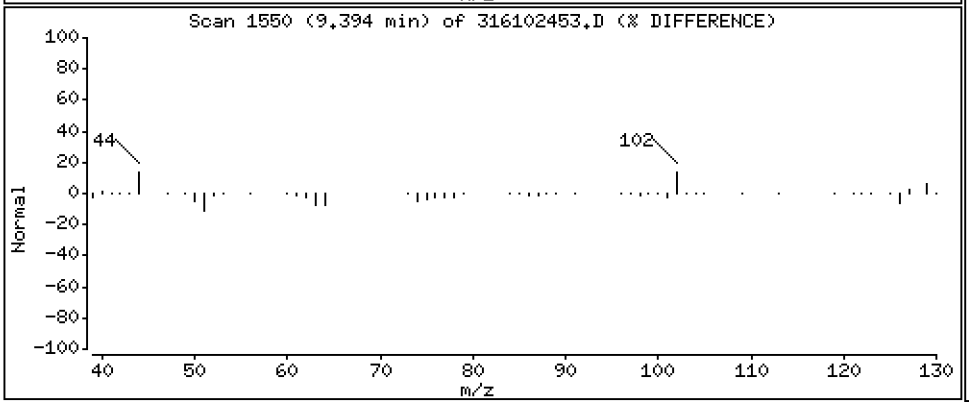
Column phase: DB-VRX Column diameter: 0.25

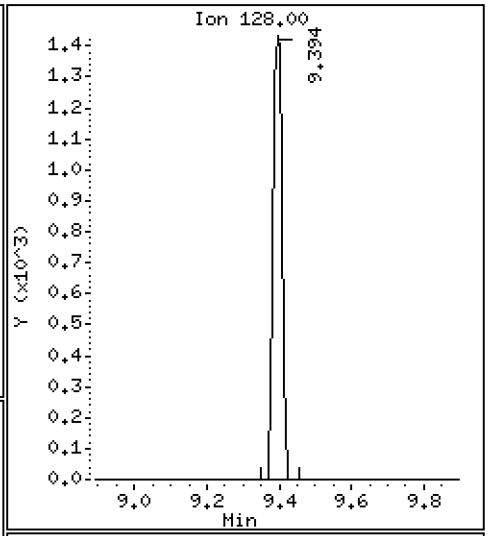
118 Naphthalene Concentration: 0.343677 ug/L

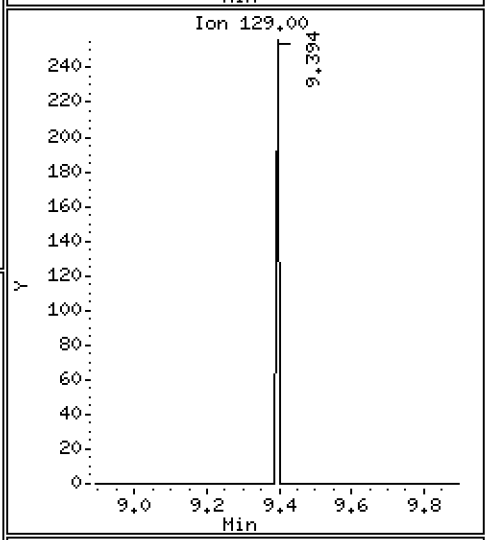


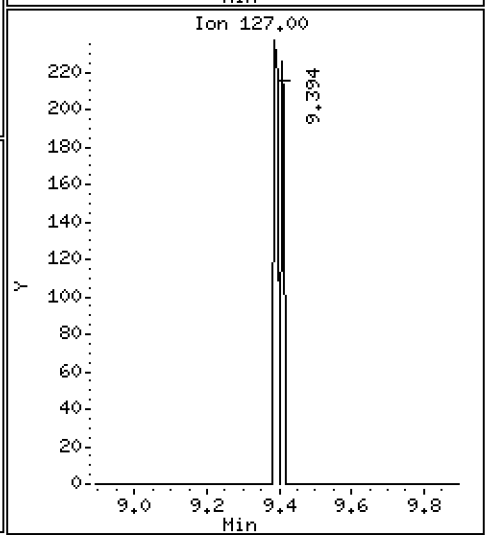












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 118

Date : 24-OCT-2016 23:25

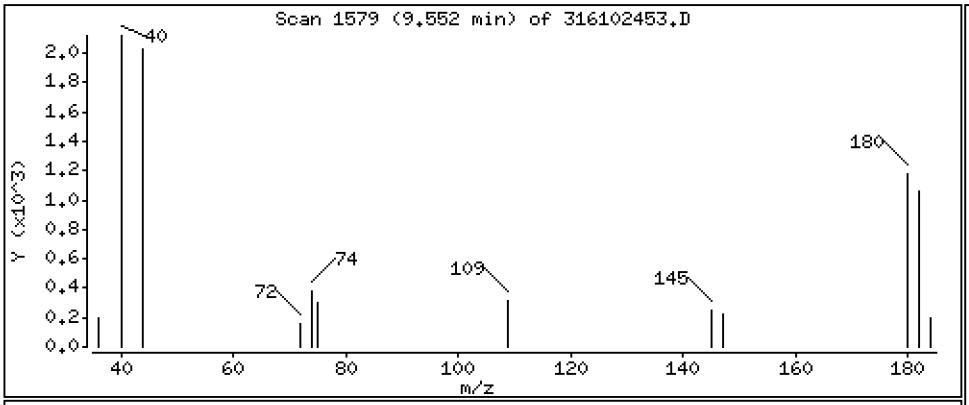
Client ID: Instrument: ms03.i

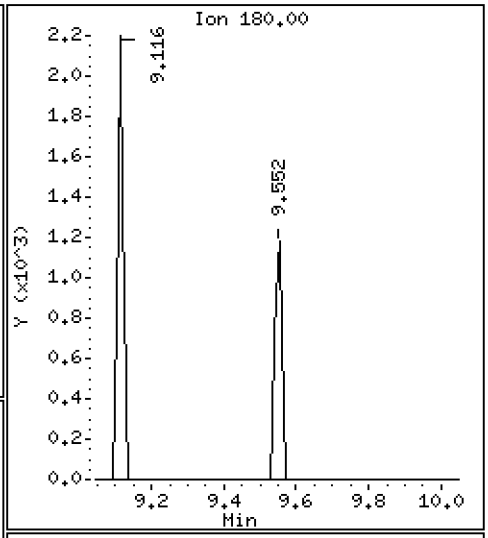
Sample Info: VSTD00.5;;1;1;8;;;

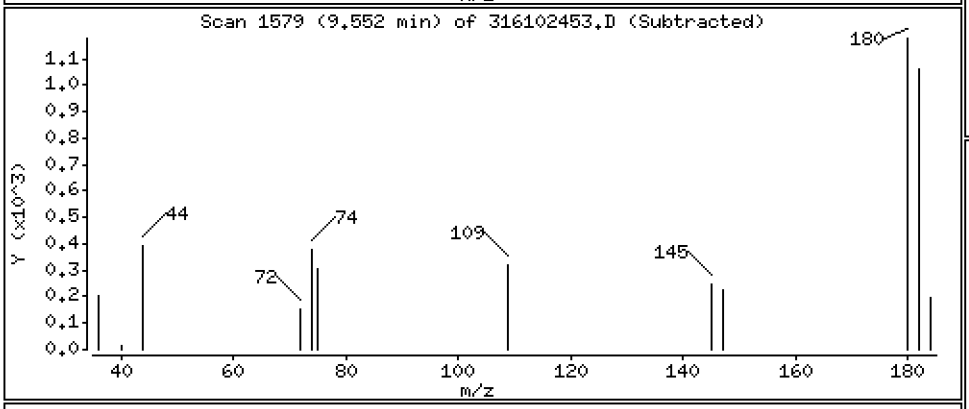
Purge Volume: 5.0 Operator: CJG

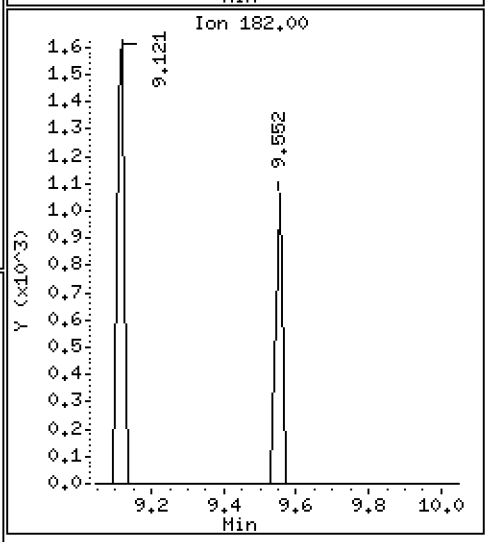
Column phase: DB-VRX Column diameter: 0.25

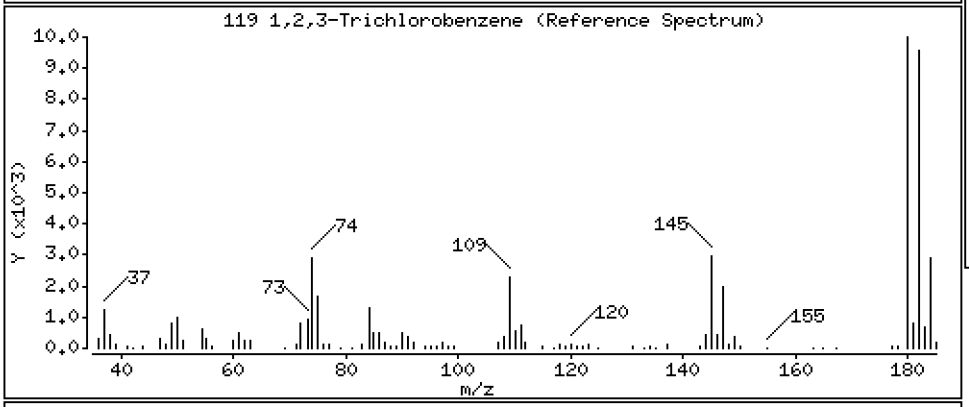
119 1,2,3-Trichlorobenzene Concentration: 0.626011 ug/L

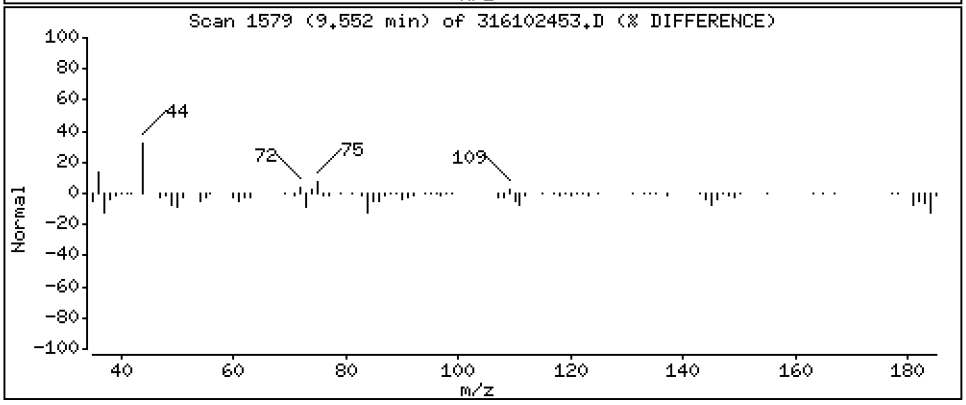








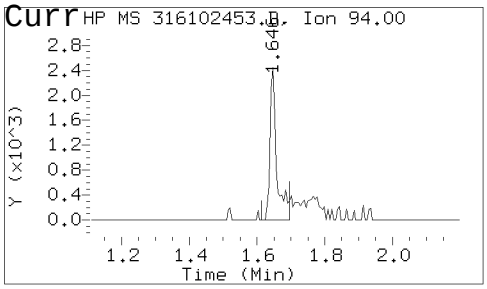


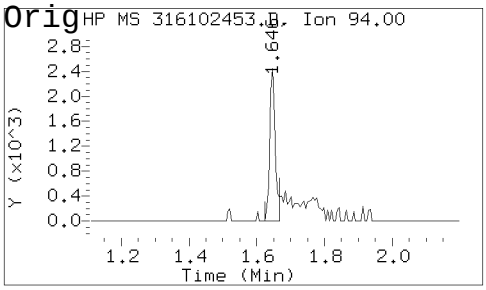


MANUAL INTEGRATION REPORT

Report Date: 10/25/2016 10:11
Lab Sample ID: VSTD00.5 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102453.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102453.D
Injection Date: 24-OCT-2016 23:25 Operator: CJG

Bromomethane

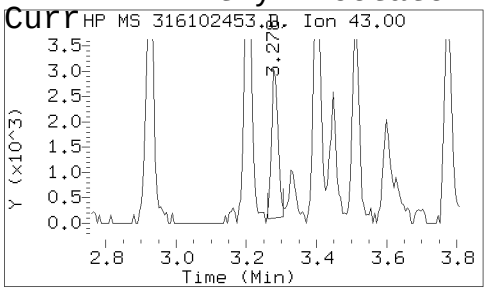


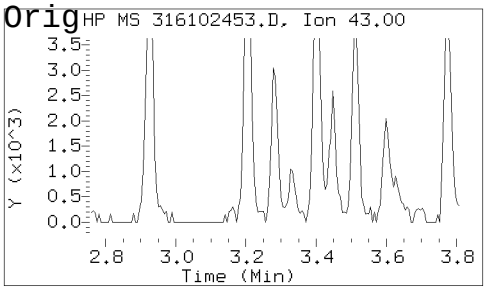


Curr. Area: 3402
Orig. Area: 2827

Curr. ON-COL: 0.875039
Orig. ON-COL: 0.530441

Ethyl Acetate

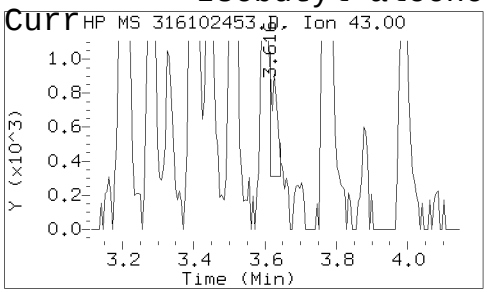


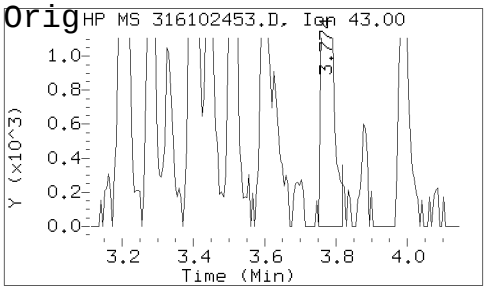


Curr. Area: 3827
Orig. Area: 0

Curr. ON-COL: 0.534638
Orig. ON-COL: 0.000000

Isobutyl alcohol

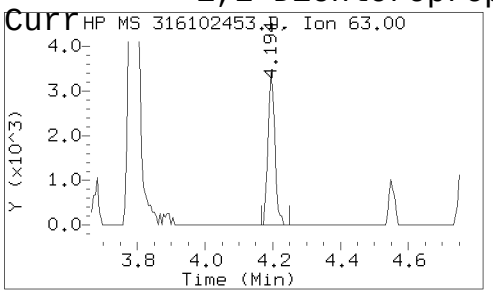


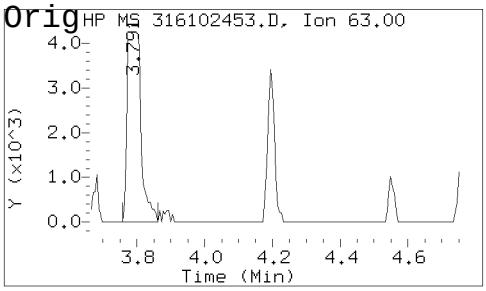


Curr. Area: 763
Orig. Area: 6779

Curr. ON-COL: 4.90820
Orig. ON-COL: 18.0236

1,2-Dichloropropane

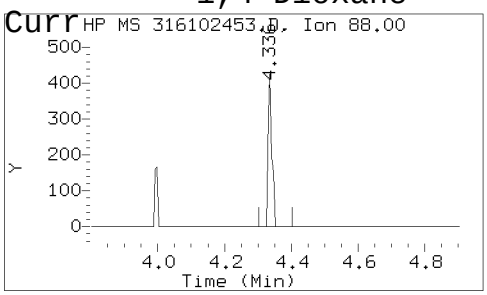


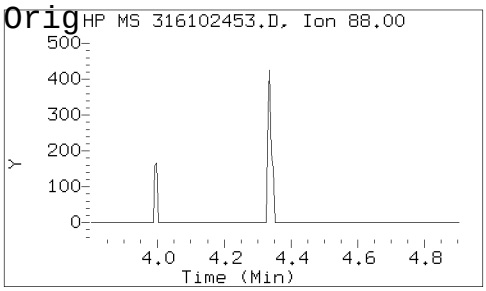


Curr. Area: 4810
Orig. Area: 39610

Curr. ON-COL: 0.541575
Orig. ON-COL: 2.08956

1,4-Dioxane





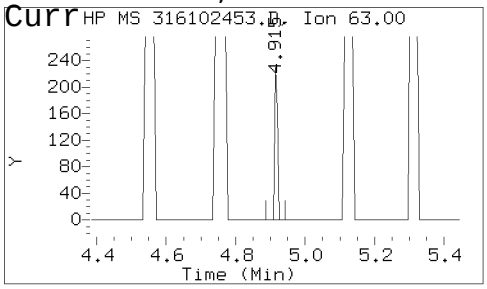
Curr. Area: 354
Orig. Area: 0

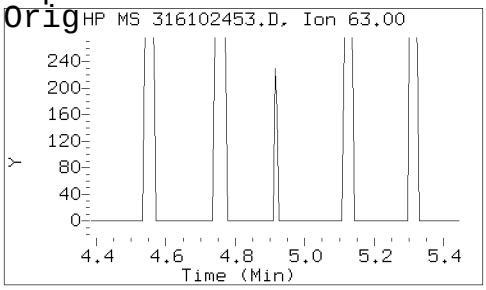
Curr. ON-COL: 10.8705
Orig. ON-COL: 0.000000

MANUAL INTEGRATION REPORT

Report Date: 10/25/2016 10:11
Lab Sample ID: VSTD00.5 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102453.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102453.D
Injection Date: 24-OCT-2016 23:25 Operator: CJG

1,1-Dichloro-2-Propanone

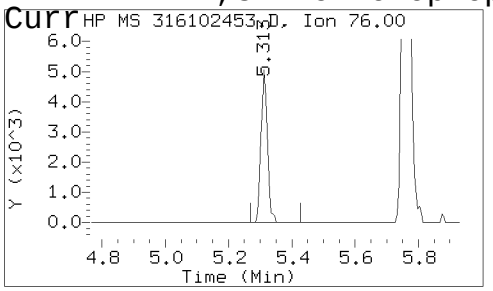
Curr 

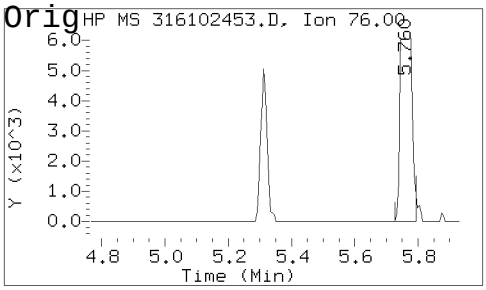
Orig 

Curr. Area: 129
Orig. Area: 0

Curr. ON-COL: 1.02720
Orig. ON-COL: 0.000000

1,3-Dichloropropane

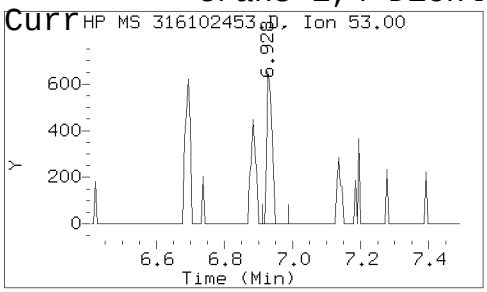
Curr 

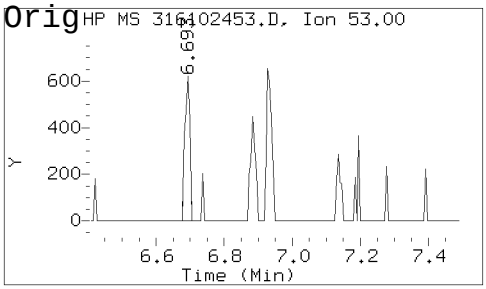
Orig 

Curr. Area: 7066
Orig. Area: 43339

Curr. ON-COL: 0.621572
Orig. ON-COL: 1.92877

trans-1,4-Dichloro-2-butene

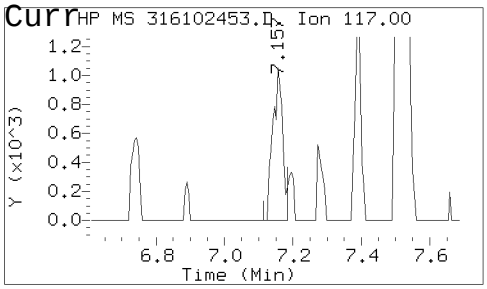
Curr 

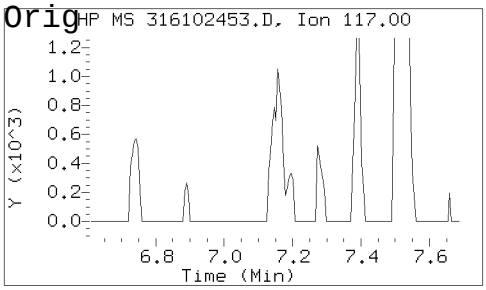
Orig 

Curr. Area: 715
Orig. Area: 617

Curr. ON-COL: 0.414560
Orig. ON-COL: 0.388499

Pentachloroethane

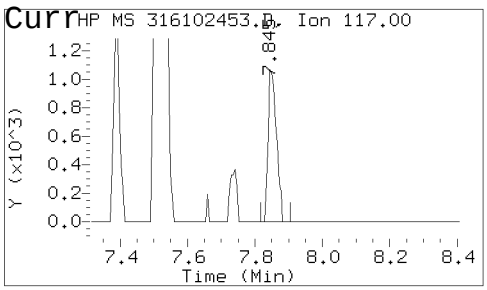
Curr 

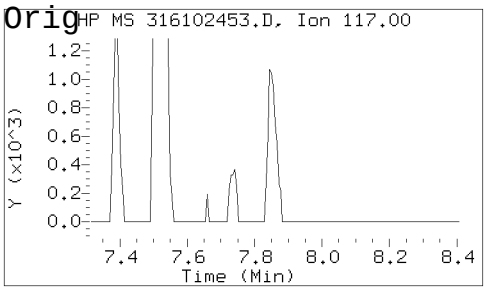
Orig 

Curr. Area: 2156
Orig. Area: 0

Curr. ON-COL: 0.574449
Orig. ON-COL: 0.000000

Hexachloroethane

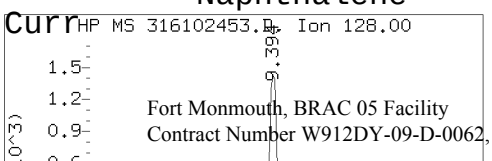
Curr 

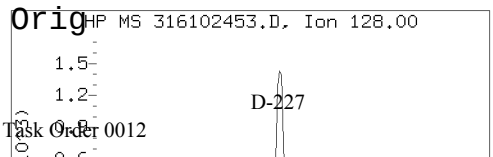
Orig 

Curr. Area: 1865
Orig. Area: 0

Curr. ON-COL: 0.665106
Orig. ON-COL: 0.000000

Naphthalene

Curr 

Orig 

Curr. Area: 2136
Orig. Area: 0

UNASSIGNED PEAK REPORT

Report Date: 10/25/2016 10:11
Lab Sample ID: VSTD00.5 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102453.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102453.D
Injection Date: 24-OCT-2016 23:25 Operator: CJG

Data File: 316102454.D Page 1
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610245
Lab Smp Id: 1234
Inj Date : 24-OCT-2016 23:46
Operator : CJG Inst ID: ms03.i
Smp Info : 1234;;1;1;1;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b0
Meth Date : 25-Oct-2016 10:10 joshua Quant Type: ISTD
Cal Date : 24-OCT-2016 23:46 Cal File: 316102454.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: ALMDTW7062

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.259	(0.332)	28161	1.00000	2.35320	
2 Chloromethane	50	1.389	1.390	(0.367)	24946	1.00000	2.28774	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	27881	1.00000	2.24657	
4 Bromomethane	94	1.646	1.646	(0.434)	6707	1.00000	1.76167(QM)	H
5 Chloroethane	64	1.722	1.723	(0.454)	17520	1.00000	2.36008	
6 Pentane	41	1.798	1.794	(0.475)	8829	1.00000	1.37517(a)	
7 Trichlorofluoromethane	101	1.804	1.799	(0.476)	32639	1.00000	2.58823	
8 Dichlorofluoromethane	67	1.831	1.826	(0.483)	20095	1.00000	1.22998	
9 Ethyl Ether	74	1.968	1.968	(0.519)	6547	1.00000	1.22649	
10 1,1-Dichloroethene	61	2.093	2.088	(0.552)	13532	1.00000	1.19455	
11 Freon 113	101	2.104	2.105	(0.555)	8369	1.00000	1.39887	
12 Carbon Disulfide	76	2.120	2.121	(0.560)	21699	1.00000	1.07202	
13 Iodomethane	127	2.180	2.181	(0.575)	565	1.00000	3.22654(Q)	
14 Acrolein	56	2.273	2.274	(0.600)	12084	10.0000	10.6701(a)	
15 Isopropyl Alcohol	45	2.339	2.334	(0.617)	1714	5.00000	6.57498(a)	
16 3-Chloro-1-propene	41	2.344	2.345	(0.619)	10706	1.00000	0.964410(a)	
17 Methylene Chloride	84	2.404	2.405	(0.634)	15500	1.00000	0.866807(a)	
18 Acetone	58	2.426	2.427	(0.640)	3548	5.00000	5.97017(aQ)	
19 Methyl acetate	74	2.486	2.481	(0.656)	1409	1.00000	1.15925(aQ)	
20 trans-1,2-Dichloroethene	61	2.486	2.487	(0.656)	13106	1.00000	1.17397	
21 Hexane	57	2.519	2.519	(0.665)	18456	1.00000	1.15589	

Data File: 316102454.D Page 2
Report Date: 25-Oct-2016 10:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.535	2.530	(0.669)	21258	1.00000	1.04728	
	23 tert.- Butyl Alcohol	59	2.568	2.563	(0.678)	2013	5.00000	4.66272(a)	
	24 Acetonitrile	41	2.682	2.683	(0.708)	4684	5.00000	6.32664(a)	
	25 Diisopropyl ether	45	2.721	2.721	(0.718)	26821	1.00000	0.958541(a)	
	26 Chloroprene	53	2.797	2.798	(0.738)	11761	1.00000	1.03710	
	27 1,1-Dichloroethane	63	2.813	2.814	(0.742)	17097	1.00000	1.16489	
	28 Acrylonitrile	53	2.846	2.841	(0.751)	15703	5.00000	5.66367	
	29 Ethyl tert-butyl ether	59	2.912	2.912	(0.768)	21854	1.00000	0.917357(a)	
	30 n-Propanol	41	2.912	2.912	(0.768)	6529	10.0000	12.1090(aQ)	
	31 Vinyl Acetate	86	2.928	2.929	(0.773)	1086	1.00000	0.670580(aQ)	
	32 cis-1,2-Dichloroethene	61	3.097	3.098	(0.817)	12910	1.00000	1.13768	
	33 2,2-Dichloropropane	77	3.163	3.158	(0.834)	10360	1.00000	1.10813	
	34 Bromochloromethane	128	3.206	3.207	(0.846)	3716	1.00000	1.09318(Q)	
	35 Cyclohexane	84	3.212	3.212	(0.847)	14139	1.00000	1.29498	
	36 Chloroform	83	3.233	3.234	(0.853)	23400	1.00000	1.63130	
	37 Ethyl Acetate	43	3.283	3.278	(0.866)	6242	1.00000	0.893259(aM)	H
	38 Methyl acrylate	55	3.293	3.294	(0.869)	6569	1.00000	0.984186(a)	
	39 Carbon Tetrachloride	117	3.321	3.321	(0.876)	7950	1.00000	1.04749	
	40 Tetrahydrofuran	42	3.332	3.327	(0.879)	10956	5.00000	5.15183	
$	41 Dibromofluoromethane	113	3.337	3.338	(0.881)	6731	1.00000	1.13942	
	42 1,1,1-Trichloroethane	97	3.359	3.360	(0.886)	11025	1.00000	1.04332	
	43 2-Butanone	72	3.397	3.398	(0.896)	4673	5.00000	5.23071(a)	
	44 1,1-Dichloropropene	75	3.424	3.425	(0.904)	12039	1.00000	1.13880	
	45 1-Chlorobutane	41	3.446	3.447	(0.909)	10859	1.00000	1.26116	
	46 Heptane	71	3.512	3.512	(0.927)	5644	1.00000	1.13200	
	47 Benzene	78	3.566	3.567	(0.941)	38049	1.00000	1.13684	
	48 Propionitrile	54	3.577	3.578	(0.944)	5612	5.00000	5.50744(a)	
	49 Methacrylonitrile	67	3.588	3.583	(0.947)	3317	1.00000	1.07968(a)	
	50 tert-Amyl methyl ether	73	3.604	3.600	(0.951)	17555	1.00000	0.948067(a)	
$	51 1,2-Dichloroethane-d4	65	3.637	3.638	(0.960)	10444	1.00000	1.28700	
	52 1,2-Dichloroethane	62	3.675	3.676	(0.970)	11325	1.00000	1.12467	
	53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	1537	5.00000	4.53623(aQ)	
	54 Isobutyl alcohol	43	3.632	3.632	(0.958)	1844	10.0000	12.1183(aQM)	H
*	55 Fluorobenzene	96	3.790	3.791	(1.000)	978534	30.0000		
	56 Diisobutylene	57	3.790	3.796	(1.000)	60082	1.00000	2.98675(Q)	
	57 Trichloroethene	95	3.883	3.883	(1.024)	9474	1.00000	1.28343	
	58 Methyl cyclohexane	83	3.883	3.883	(0.674)	14684	1.00000	1.32866	
	59 tert-Amyl Ethylether	59	3.986	3.987	(1.052)	15338	1.00000	0.904491(a)	
	60 Dibromomethane	93	4.139	4.139	(1.092)	4191	1.00000	1.00138	
	61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	9117	1.00000	1.05159	
	62 Bromodichloromethane	83	4.221	4.222	(1.114)	8133	1.00000	0.898278(a)	
	63 Methyl methacrylate	41	4.292	4.293	(1.132)	5449	1.00000	0.842816(a)	
	64 1,4-Dioxane	88	4.341	4.336	(1.145)	693	25.0000	21.8040(aQM)	H
	65 2-Chloroethylvinyl ether	63	4.548	4.549	(1.200)	2558	1.00000	0.660755(a)	
	66 cis-1,3-Dichloropropene	75	4.608	4.604	(0.800)	9123	1.00000	0.802804(a)	
	67 Octane	85	4.608	4.609	(0.800)	3273	1.00000	1.03334(a)	
$	68 Toluene-d8	98	4.723	4.724	(0.820)	29934	1.00000	1.21487	
	69 Toluene	92	4.756	4.756	(0.826)	19678	1.00000	1.10036	
	70 Chloroacetonitrile	48	4.827	4.833	(0.838)	518	5.00000	3.06203(aQ)	
	71 2-Nitropropane	41	4.909	4.909	(0.852)	5124	5.00000	3.96633(a)	
	72 1,1-Dichloro-2-Propanone	63	4.919	4.920	(0.854)	298	5.00000	2.39886(aQM)	H
	73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.986	(0.865)	27495	5.00000	3.96142(a)	
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	6184	1.00000	1.37100	
	75 trans-1,3-Dichloropropene	75	5.012	5.013	(0.870)	7617	1.00000	0.763050(a)	

Data File: 316102454.D Page 3
Report Date: 25-Oct-2016 10:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.094	5.095	(0.884)	6902	1.00000	0.748664(a)	
	77 1,1,2-Trichloroethane	83	5.127	5.122	(0.890)	5930	1.00000	1.12909	
	78 Chlorodibromomethane	129	5.252	5.247	(0.912)	4151	1.00000	0.799283(a)	
	79 1,3-Dichloropropane	76	5.312	5.313	(0.922)	12677	1.00000	1.12767(QM)	H
	80 1,2-Dibromoethane	107	5.416	5.422	(0.940)	5276	1.00000	0.979669(a)	
	81 2-Hexanone	43	5.541	5.542	(0.962)	17724	5.00000	3.92995(a)	
	82 1-Chlorohexane	91	5.738	5.739	(0.996)	8899	1.00000	0.980863(aQ)	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	400564	30.0000		
	84 Chlorobenzene	112	5.771	5.777	(1.002)	21668	1.00000	1.23546	
	85 Ethylbenzene	106	5.782	5.782	(1.004)	11478	1.00000	1.19109	
	86 1,1,1,2-Tetrachloroethane	131	5.809	5.815	(1.009)	5101	1.00000	0.975800(a)	
	87 mp-Xylene	106	5.880	5.880	(1.021)	24919	2.00000	2.13355	
	88 o-Xylene	106	6.196	6.197	(1.076)	10436	1.00000	0.940086(a)	
	89 Styrene	104	6.234	6.235	(0.829)	16015	1.00000	0.928161(a)	
	90 Bromoform	173	6.262	6.262	(0.833)	1802	1.00000	0.859227(a)	
	91 Isopropylbenzene	105	6.425	6.426	(0.855)	27743	1.00000	1.05547	
$	92 4-Bromofluorobenzene	174	6.649	6.650	(0.885)	5671	1.00000	1.19714	
	93 Bromobenzene	156	6.731	6.732	(0.895)	6210	1.00000	1.16866	
	94 n-Propylbenzene	120	6.736	6.737	(0.896)	7058	1.00000	1.05421(Q)	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.792	(0.903)	7182	1.00000	1.12588	
	96 o-Chlorotoluene	91	6.867	6.868	(0.914)	21576	1.00000	1.04174	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.916)	18445	1.00000	0.909183(a)	
	98 1,2,3-Trichloropropane	110	6.906	6.906	(0.919)	2402	1.00000	1.29728(a)	
	99 trans-1,4-Dichloro-2-butene	53	6.927	6.933	(0.922)	1538	1.00000	0.895508(aQ)	
M	100 1,2-Dichloroethene, Total	61				26016	2.00000	2.31165	
	101 p-Chlorotoluene	91	6.993	6.994	(0.930)	20219	1.00000	1.05903	
	102 tert-Butylbenzene	134	7.140	7.141	(0.950)	4657	1.00000	1.07524(aQ)	
	103 Pentachloroethane	117	7.157	7.163	(0.952)	3917	1.00000	1.04802(Q)	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.957)	17697	1.00000	0.875311(a)	
	105 sec-Butylbenzene	105	7.277	7.277	(0.968)	24740	1.00000	1.00797(a)	
	106 p-Isopropyltoluene	134	7.391	7.392	(0.983)	4412	1.00000	0.916838(a)	
	107 1,3-Dichlorobenzene	146	7.462	7.463	(0.993)	11834	1.00000	1.24143	
*	108 1,4-Dichlorobenzene-d4	152	7.517	7.523	(1.000)	229317	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	7.533	7.534	(1.002)	12384	1.00000	1.29832(Q)	
	110 Benzyl Chloride	126	7.740	7.736	(1.030)	644	1.00000	0.547489(aQ)	
	111 n-Butylbenzene	134	7.729	7.736	(1.028)	3950	1.00000	0.964575(aQ)	
	112 Hexachloroethane	117	7.850	7.850	(1.044)	2948	1.00000	1.05552(Q)	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.048)	10357	1.00000	1.20902	
	114 1,2-Dibromo-3-chloropropane	75	8.537	8.542	(1.136)	553	1.00000	0.814872(aQ)	
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	9.083	9.089	(1.208)	2803	1.00000	1.75584(a)	
	117 1,2,4-Trichlorobenzene	180	9.115	9.116	(1.213)	3676	1.00000	1.03635(a)	
	118 Naphthalene	128	9.388	9.394	(1.249)	3065	1.00000	0.495082(a)	
	119 1,2,3-Trichlorobenzene	180	9.546	9.547	(1.270)	2227	1.00000	0.993244(a)	
M	120 1,3-Dichloropropene, Total	75				16740	2.00000	1.56585	
M	121 Total Xylenes	106				35355	3.00000	3.07364	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 316102454.D Page 4
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 25-OCT-2016
Lab File ID: 316102454.D Calibration Time: 00:52
Lab Smp Id: 1234
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: CJG
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	978534	-3.42
83 Chlorobenzene-d5	432864	216432	865728	400564	-7.46
108 1,4-Dichlorobenze	273837	136919	547674	229317	-16.26

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102454.D Page 5
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1234
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	2.35320	
74-87-3	Chloromethane	2.28774	
75-01-4	Vinyl Chloride	2.24657	
74-83-9	Bromomethane	1.76167	
75-00-3	Chloroethane	2.36008	
109-66-0	Pentane	1.37517	J
75-69-4	Trichlorofluoromethane	2.58823	
75-43-4	Dichlorofluoromethane	1.22998	
60-29-7	Ethyl Ether	1.22649	
75-35-4	1,1-Dichloroethene	1.19455	
76-13-1	Freon 113	1.39887	
75-15-0	Carbon Disulfide	1.07202	
74-88-4	Iodomethane	3.22654	
107-02-8	Acrolein	10.6701	J
67-63-0	Isopropyl Alcohol	6.57498	J
107-05-1	3-Chloro-1-propene	0.964410	J
75-09-2	Methylene Chloride	0.866807	J
67-64-1	Acetone	5.97017	J
79-20-9	Methyl acetate	1.15925	J
156-60-5	trans-1,2-Dichloroethene	1.17397	
110-54-3	Hexane	1.15589	
1634-04-4	Methyl t-Butyl Ether	1.04728	
75-65-0	tert.- Butyl Alcohol	4.66272	J
75-05-8	Acetonitrile	6.32664	J
108-20-3	Diisopropyl ether	0.958541	J
126-99-8	Chloroprene	1.03710	
75-34-3	1,1-Dichloroethane	1.16489	
107-13-1	Acrylonitrile	5.66367	
637-92-3	Ethyl tert-butyl ether	0.917357	J
71-23-8	n-Propanol	12.1090	J
108-05-4	Vinyl Acetate	0.670580	J
156-59-2	cis-1,2-Dichloroethene	1.13768	
594-20-7	2,2-Dichloropropane	1.10813	
74-97-5	Bromochloromethane	1.09318	
110-82-7	Cyclohexane	1.29498	
67-66-3	Chloroform	1.63130	
141-78-6	Ethyl Acetate	0.893259	J
96-33-3	Methyl acrylate	0.984186	J
56-23-5	Carbon Tetrachloride	1.04749	
109-99-9	Tetrahydrofuran	5.15183	
71-55-6	1,1,1-Trichloroethane	1.04332	
78-93-3	2-Butanone	5.23071	J

Data File: 316102454.D Page 6
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1234
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
563-58-6	1,1-Dichloropropene	1.13880	
109-69-3	1-Chlorobutane	1.26116	
142-82-5	Heptane	1.13200	
71-43-2	Benzene	1.13684	
107-12-0	Propionitrile	5.50744	J
126-98-7	Methacrylonitrile	1.07968	J
994-05-8	tert-Amyl methyl ether	0.948067	J
107-06-2	1,2-Dichloroethane	1.12467	
75-85-4	tert-Amyl Alcohol	4.53623	J
78-83-1	Isobutyl alcohol	12.1183	J
107-39-1	Diisobutylene	2.98675	
79-01-6	Trichloroethene	1.28343	
108-87-2	Methyl cyclohexane	1.32866	
919-94-8	tert-Amyl Ethylether	0.904491	J
74-95-3	Dibromomethane	1.00138	
78-87-5	1,2-Dichloropropane	1.05159	
75-27-4	Bromodichloromethane	0.898278	J
80-62-6	Methyl methacrylate	0.842816	J
123-91-1	1,4-Dioxane	21.8040	J
110-75-8	2-Chloroethylvinyl ether	0.660755	J
10061-01-5	cis-1,3-Dichloropropene	0.802804	J
111-65-9	Octane	1.03334	J
108-88-3	Toluene	1.10036	
107-14-2	Chloroacetonitrile	3.06203	J
79-46-9	2-Nitropropane	3.96633	J
513-88-2	1,1-Dichloro-2-Propanone	2.39886	J
108-10-1	4-Methyl-2-Pentanone(MIBK)	3.96142	J
127-18-4	Tetrachloroethene	1.37100	
10061-02-6	trans-1,3-Dichloropropene	0.763050	J
97-63-2	Ethyl Methacrylate	0.748664	J
79-00-5	1,1,2-Trichloroethane	1.12909	
124-48-1	Chlorodibromomethane	0.799283	J
142-28-9	1,3-Dichloropropane	1.12767	
106-93-4	1,2-Dibromoethane	0.979669	J
591-78-6	2-Hexanone	3.92995	J
544-10-5	1-Chlorohexane	0.980863	J
108-90-7	Chlorobenzene	1.23546	
100-41-4	Ethylbenzene	1.19109	
630-20-6	1,1,1,2-Tetrachloroethane	0.975800	J
108383/106423	m-p-Xylene	2.13355	
95-47-6	o-Xylene	0.940086	J
100-42-5	Styrene	0.928161	J

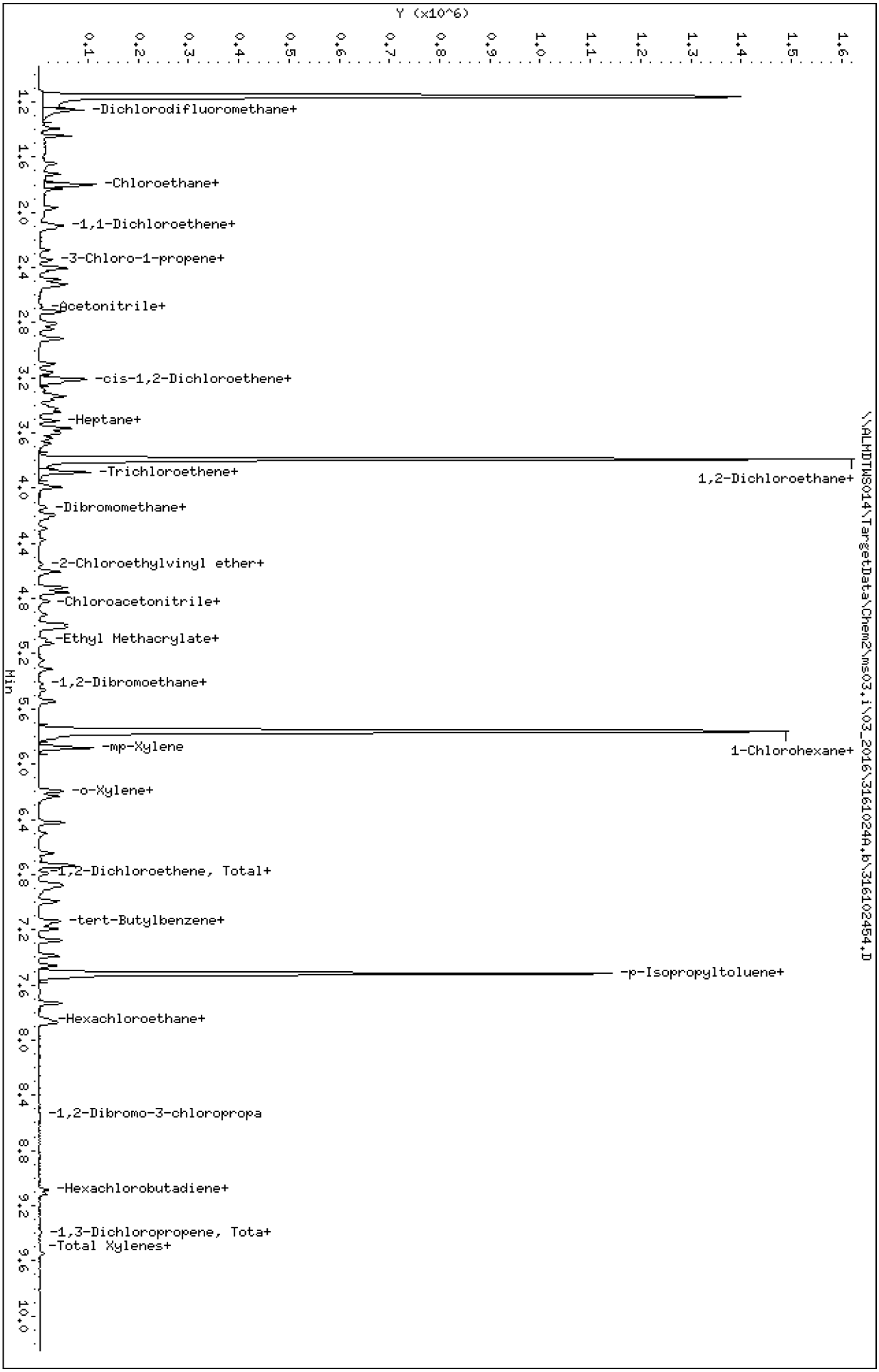
Data File: 316102454.D Page 7
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1234
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-25-2	Bromoform	0.859227	J
98-82-8	Isopropylbenzene	1.05547	
108-86-1	Bromobenzene	1.16866	
103-65-1	n-Propylbenzene	1.05421	
79-34-5	1,1,2,2-Tetrachloroethane	1.12588	
95-49-8	o-Chlorotoluene	1.04174	
108-67-8	1,3,5-Trimethylbenzene	0.909183	J
96-18-4	1,2,3-Trichloropropane	1.29728	J
110-57-6	trans-1,4-Dichloro-2-butene	0.895508	J
540-59-0	1,2-Dichloroethene, Total	2.31165	
106-43-4	p-Chlorotoluene	1.05903	
98-06-6	tert-Butylbenzene	1.07524	J
76-01-7	Pentachloroethane	1.04802	
95-63-6	1,2,4-Trimethylbenzene	0.875311	J
135-98-8	sec-Butylbenzene	1.00797	J
99-87-6	p-Isopropyltoluene	0.916838	J
541-73-1	1,3-Dichlorobenzene	1.24143	
106-46-7	1,4-Dichlorobenzene	1.29832	
100-44-7	Benzyl Chloride	0.547489	J
104-51-8	n-Butylbenzene	0.964575	J
67-72-1	Hexachloroethane	1.05552	
95-50-1	1,2-Dichlorobenzene	1.20902	
96-12-8	1,2-Dibromo-3-chloropropane	0.814872	J
87-68-3	Hexachlorobutadiene	1.75584	J
120-82-1	1,2,4-Trichlorobenzene	1.03635	J
91-20-3	Naphthalene	0.495082	J
87-61-6	1,2,3-Trichlorobenzene	0.993244	J
542-75-6	1,3-Dichloropropene, Total	1.56585	
1330-20-7	Total Xylenes	3.07364	
1868-53-7	Dibromofluoromethane	1.13942	
17060-07-0	1,2-Dichloroethane-d4	1.28700	
2037-26-5	Toluene-d8	1.21487	
460-00-4	4-Bromofluorobenzene	1.19714	


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
Min
1.2
1.6
2.0
2.4
2.8
3.2
3.6
4.0
4.4
4.8
5.2
5.6
6.0
6.4
6.8
7.2
7.6
8.0
8.4
8.8
9.2
9.6
10.0
-Dichlorodifluoromethane+
-Chloroethane+
-1,1-Dichloroethene+
-3-Chloro-1-propene+
-Acetonitrile+
-cis-1,2-Dichloroethene+
-Heptane+
-Trichloroethene+
-Dibromomethane+
-2-Chloroethylvinyl ether+
-Chloroacetonitrile+
-Ethyl Methacrylate+
-1,2-Dibromoethane+
-mp-Xylene
-o-Xylene+
-1,2-Dichloroethene, Total+
-tert-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-Hexachlorobutadiene+
-1,3-Dichloropropene, Tota+
-Total Xylenes+
1,2-Dichloroethane+
1-Chlorohexane+
-p-Isopropyltoluene+
\\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S4.D
\\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S4.D
Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S4.D
Date : 24-OCT-2016 23:46
Client ID:
Sample Info: 1234;;1;1;1;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
Page 8

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 9

Date : 24-OCT-2016 23:46

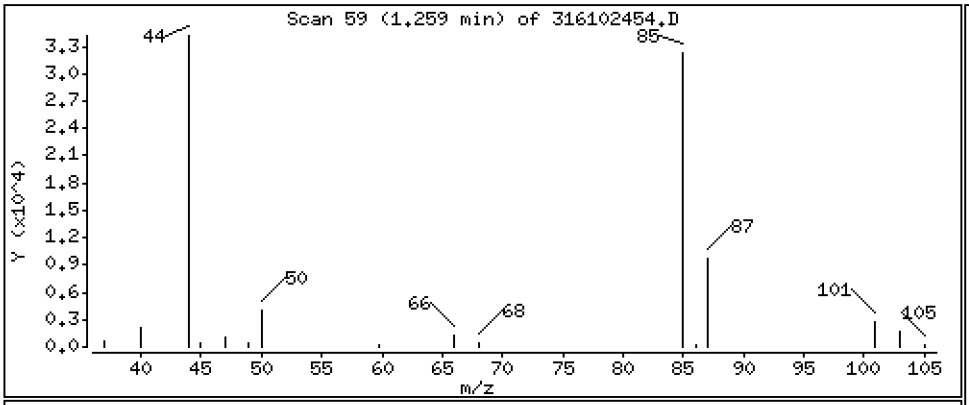
Client ID: Instrument: ms03.i

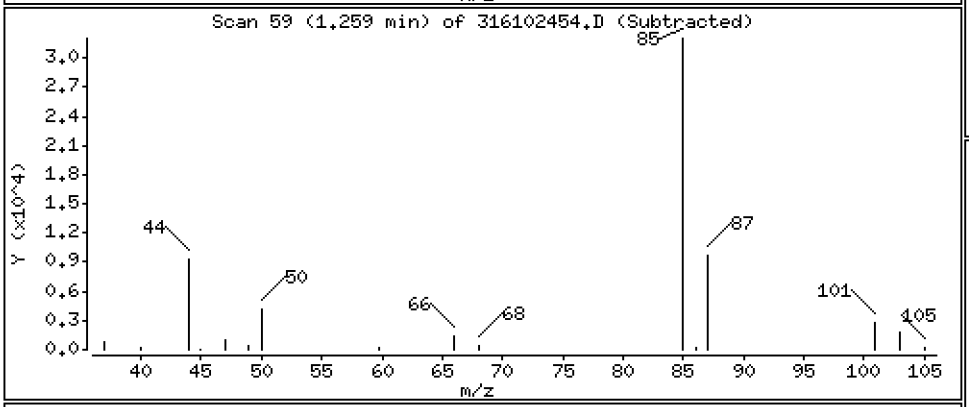
Sample Info: 1234;;1;1;1;;;

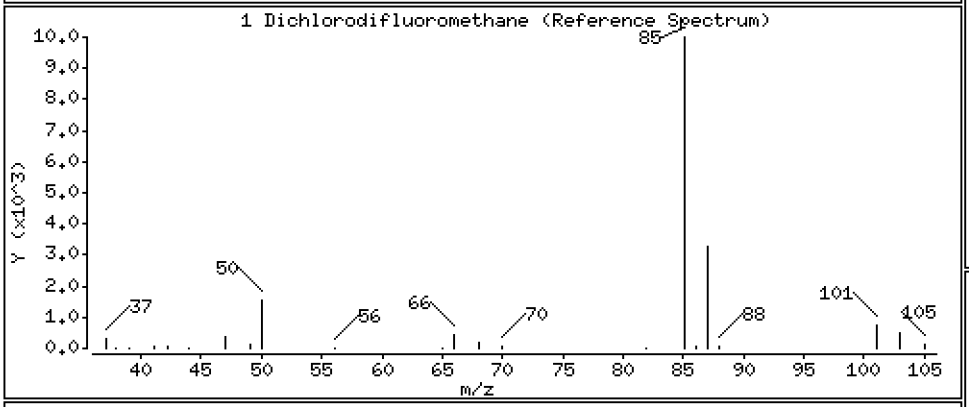
Purge Volume: 5.0 Operator: CJG

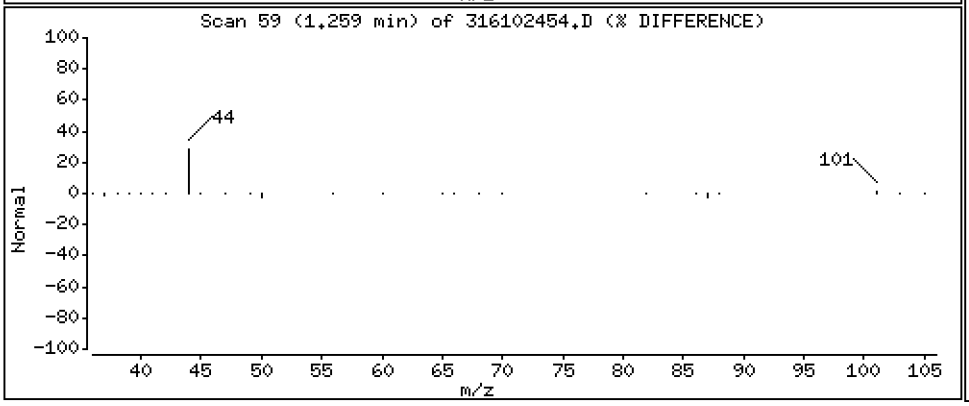
Column phase: DB-VRX Column diameter: 0.25

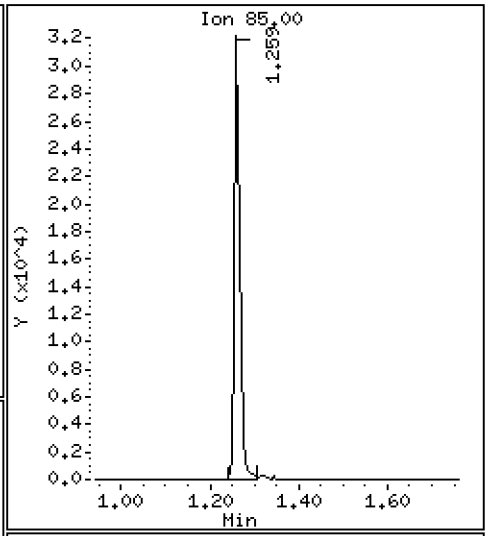
1 Dichlorodifluoromethane Concentration: 2.35320 ug/L

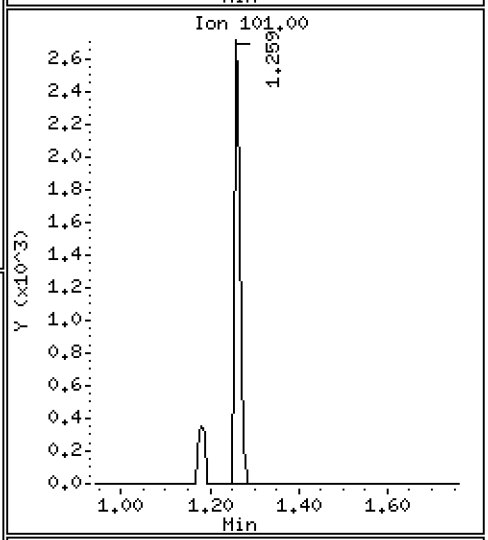


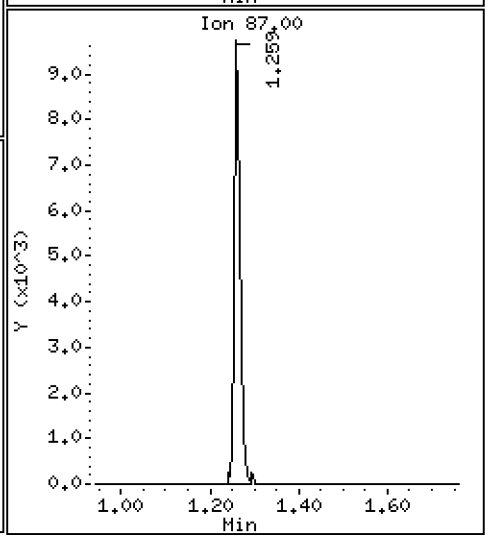












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 10

Date : 24-OCT-2016 23:46

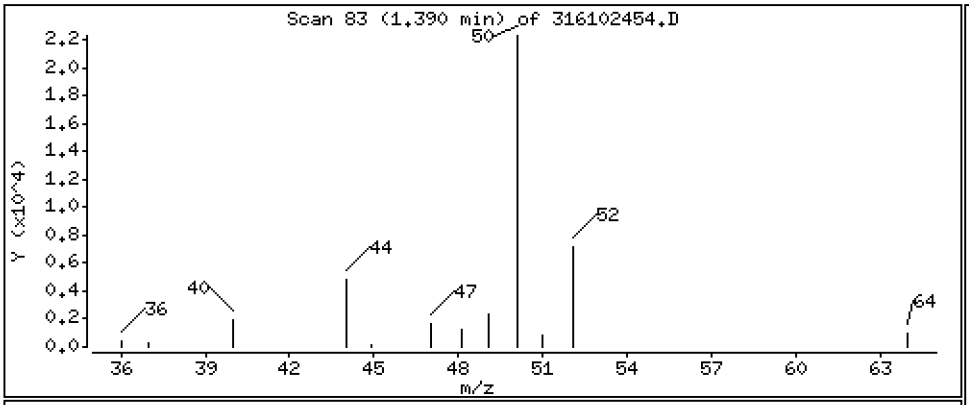
Client ID: Instrument: ms03.i

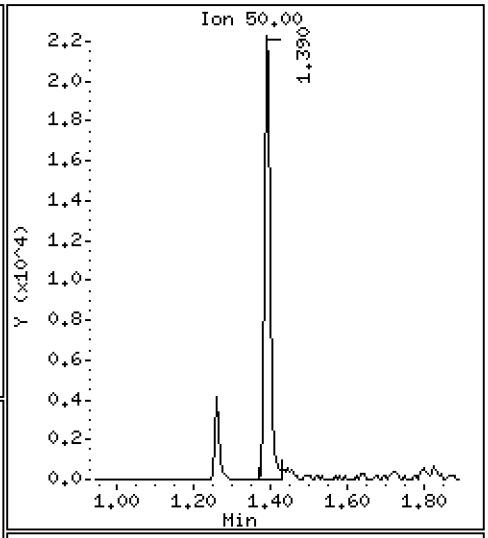
Sample Info: 1234;;1;1;1;;;

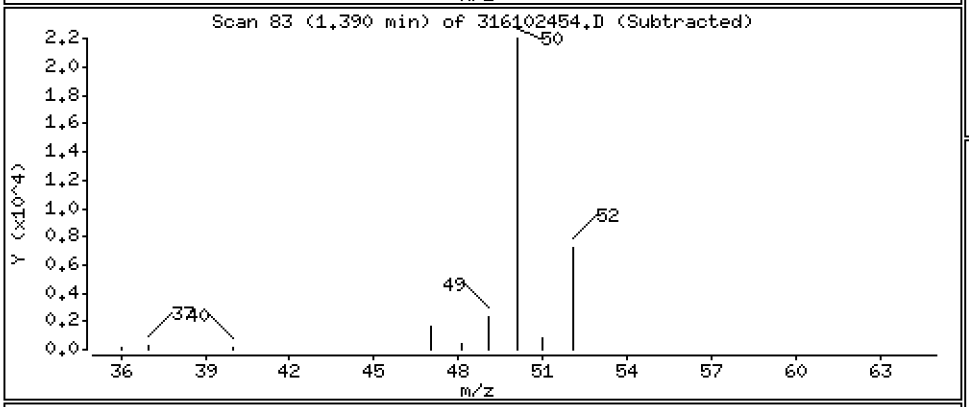
Purge Volume: 5.0 Operator: CJG

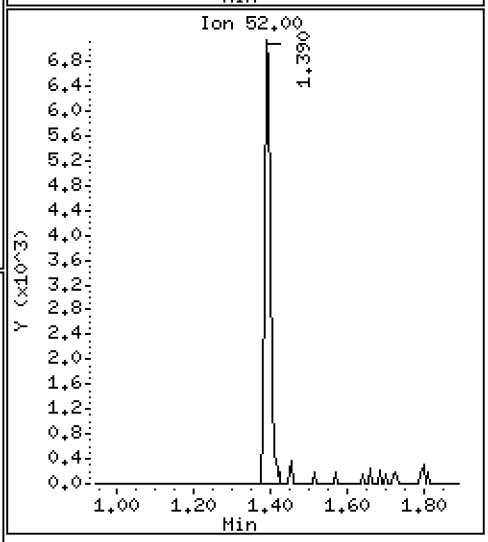
Column phase: DB-VRX Column diameter: 0.25

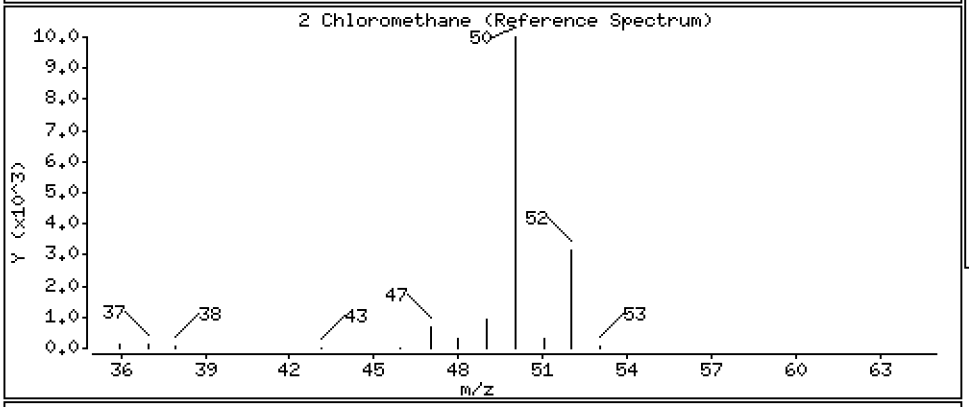
2 Chloromethane Concentration: 2.28774 ug/L

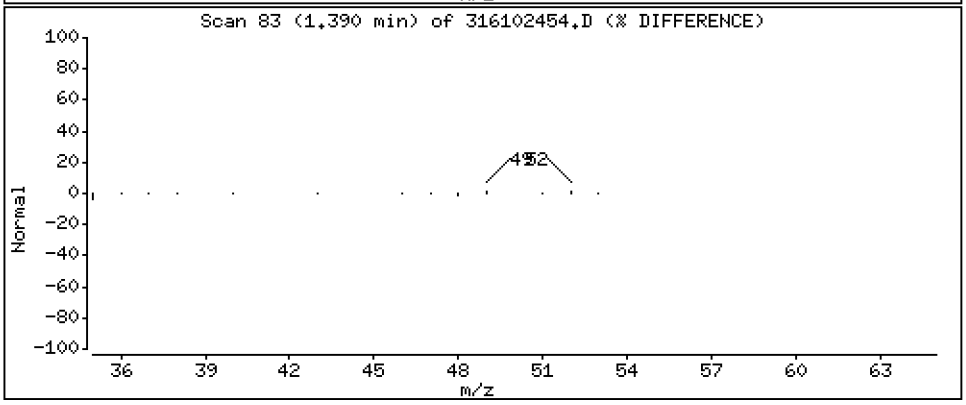












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 11

Date : 24-OCT-2016 23:46

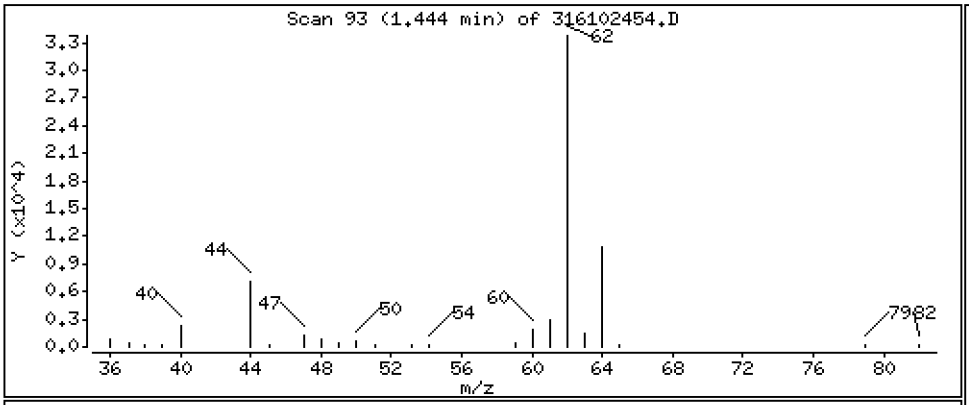
Client ID: Instrument: ms03.i

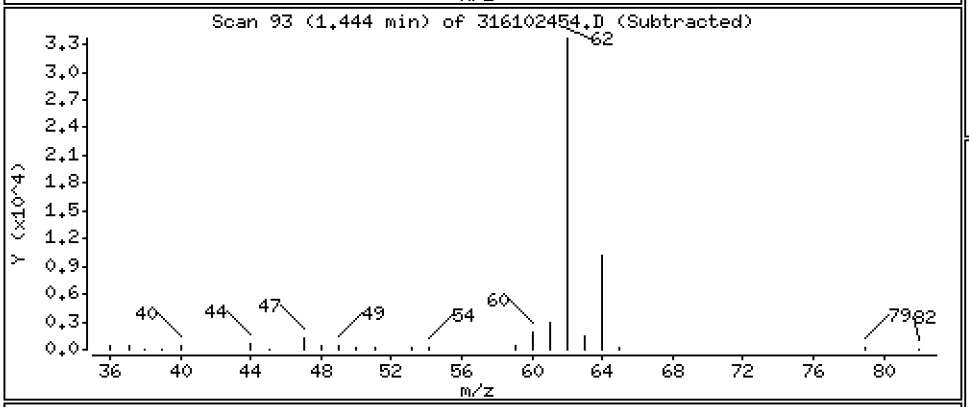
Sample Info: 1234;;1;1;1;;;

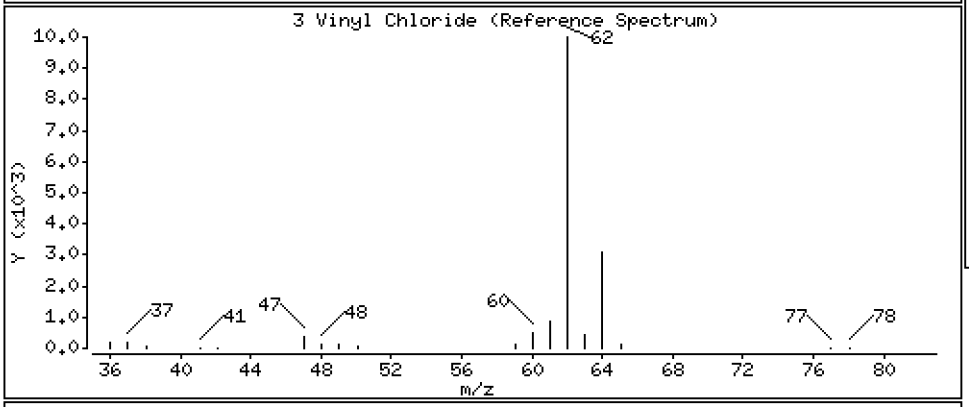
Purge Volume: 5.0 Operator: CJG

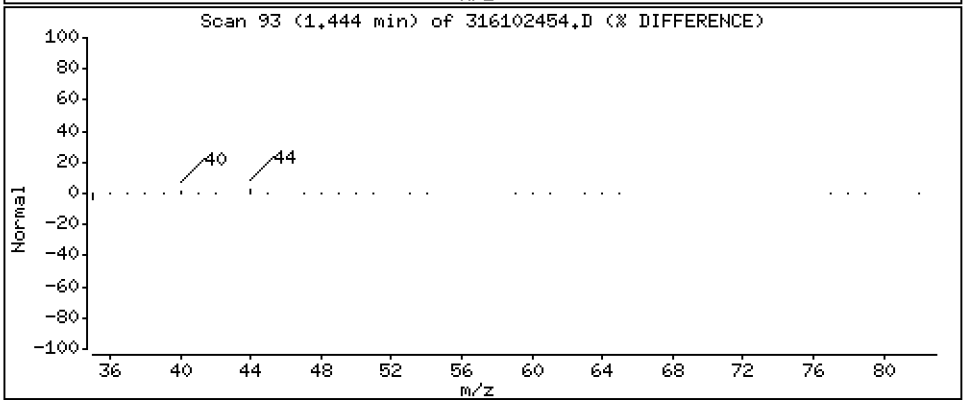
Column phase: DB-VRX Column diameter: 0.25

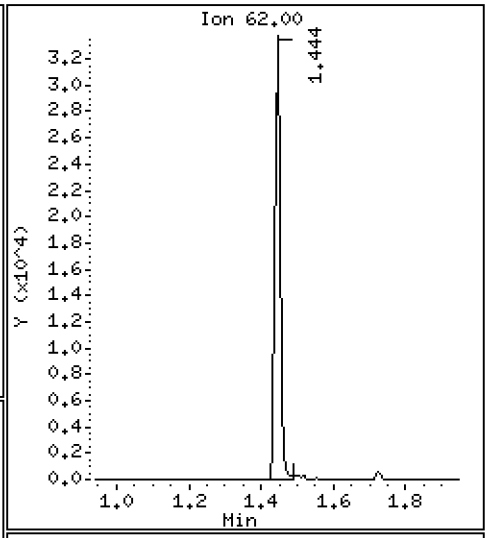
3 Vinyl Chloride Concentration: 2.24657 ug/L

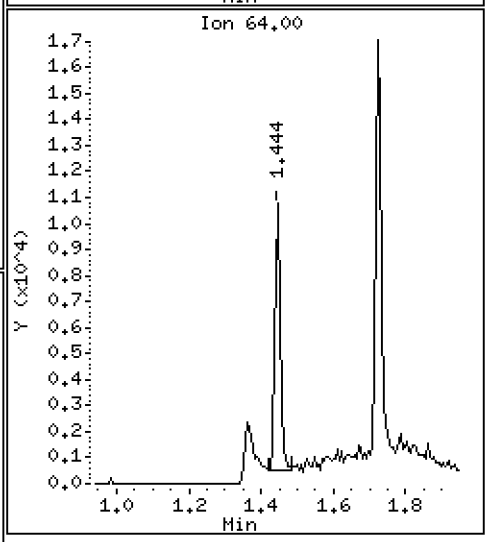












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 12

Date : 24-OCT-2016 23:46

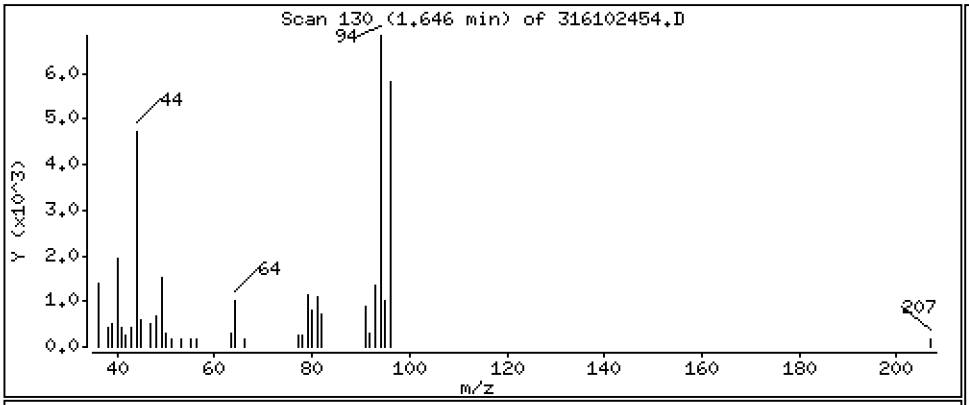
Client ID: Instrument: ms03.i

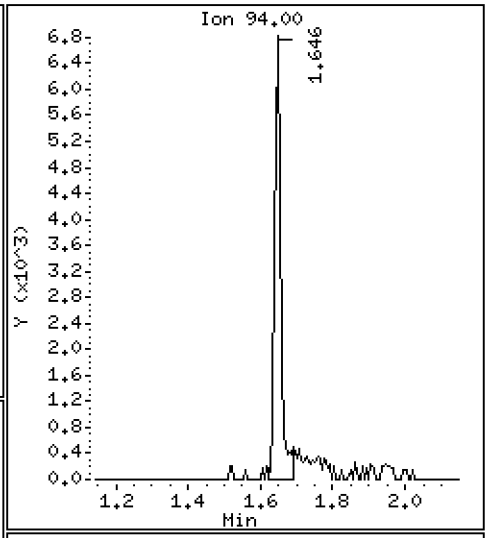
Sample Info: 1234;;1;1;1;;;

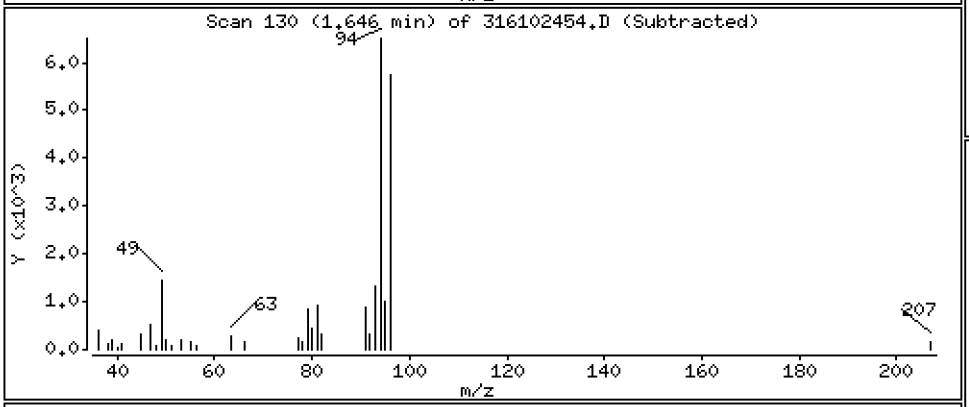
Purge Volume: 5.0 Operator: CJG

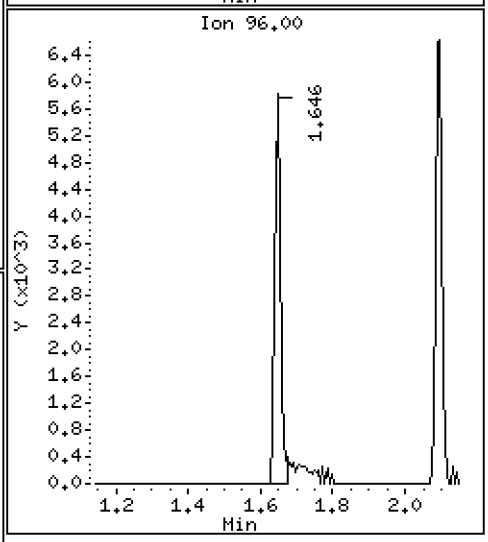
Column phase: DB-VRX Column diameter: 0.25

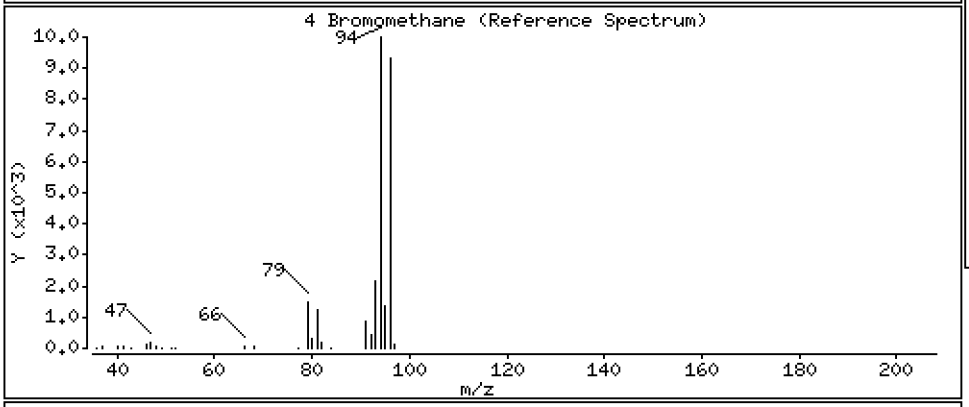
4 Bromomethane Concentration: 1.76167 ug/L

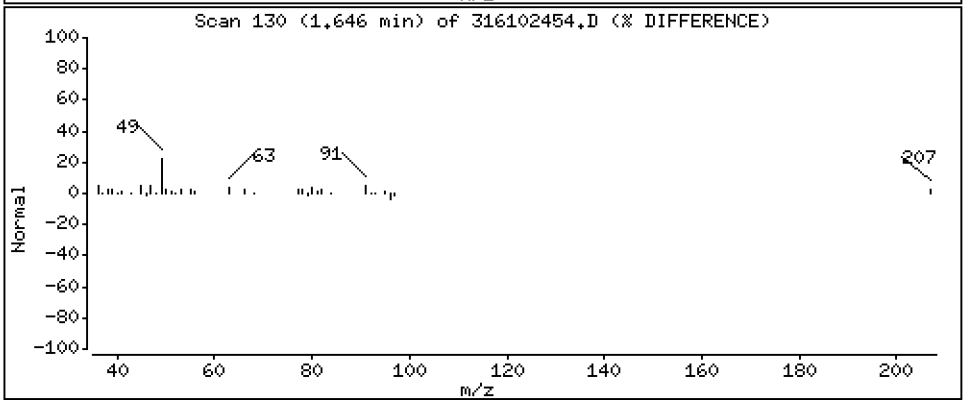












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 13

Date : 24-OCT-2016 23:46

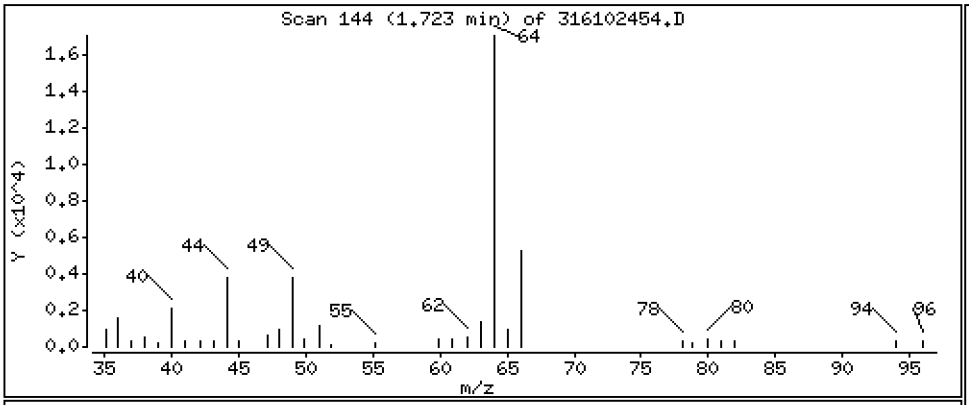
Client ID: Instrument: ms03.i

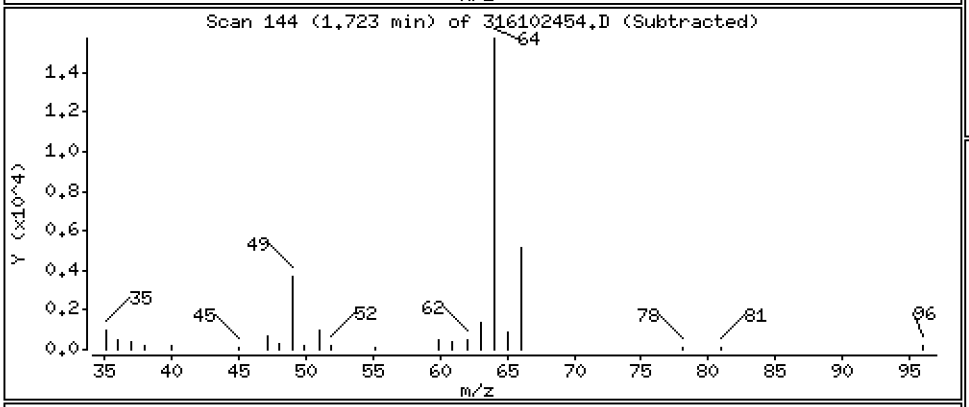
Sample Info: 1234;;1;1;1;;;

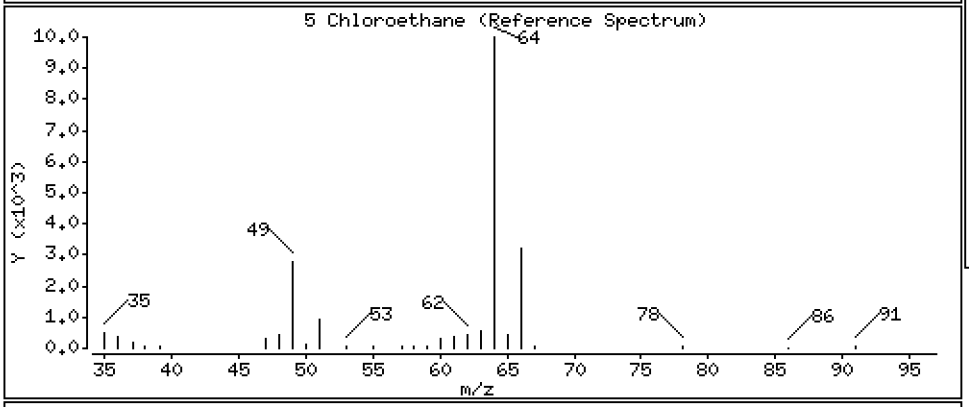
Purge Volume: 5.0 Operator: CJG

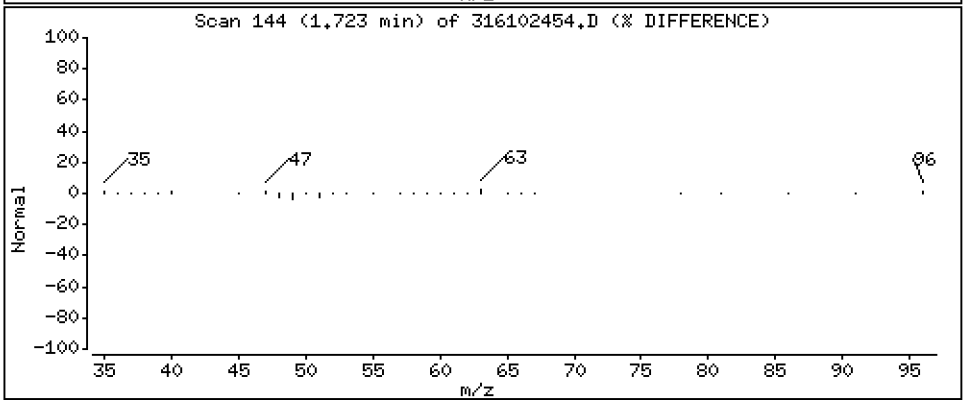
Column phase: DB-VRX Column diameter: 0.25

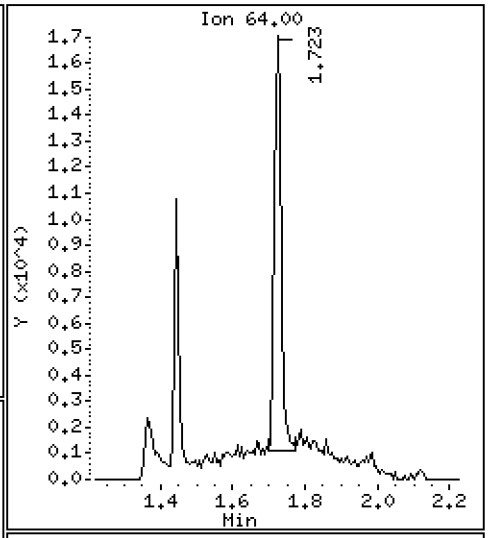
5 Chloroethane Concentration: 2.36008 ug/L

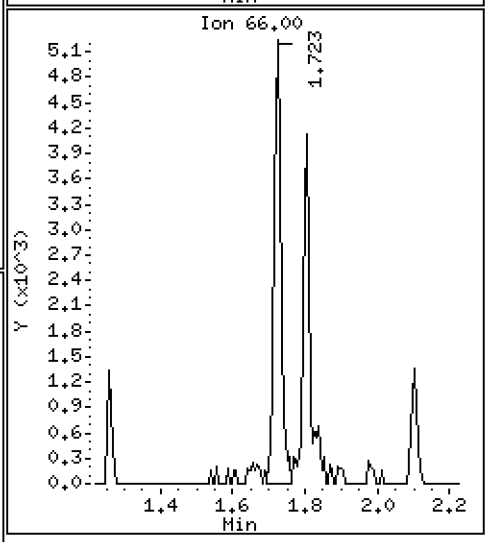












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 14

Date : 24-OCT-2016 23:46

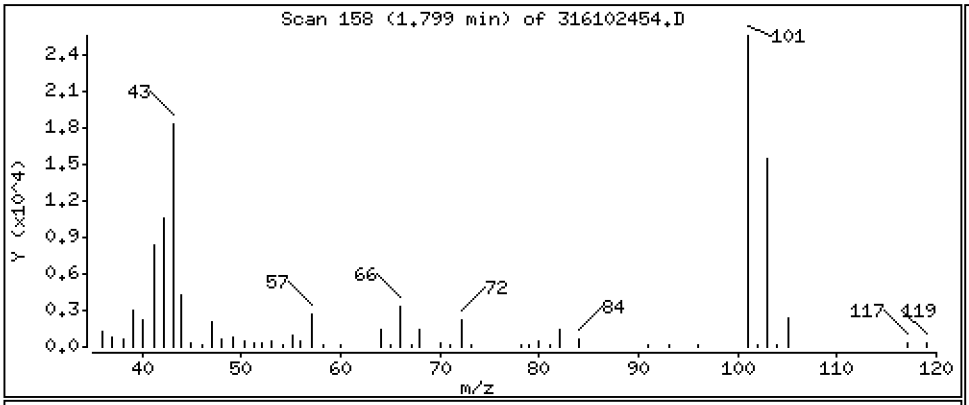
Client ID: Instrument: ms03.i

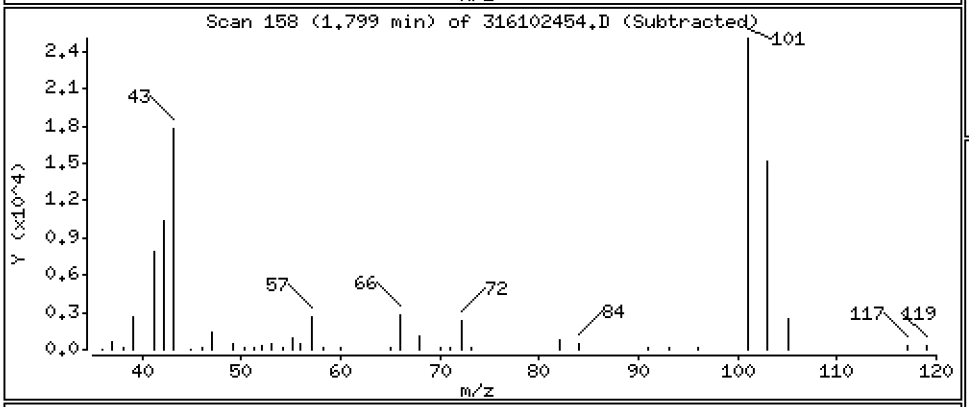
Sample Info: 1234;;1;1;1;;;

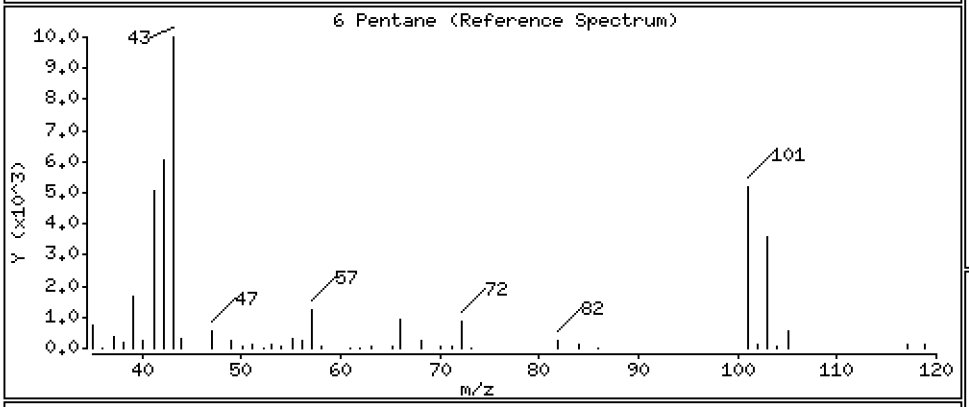
Purge Volume: 5.0 Operator: CJG

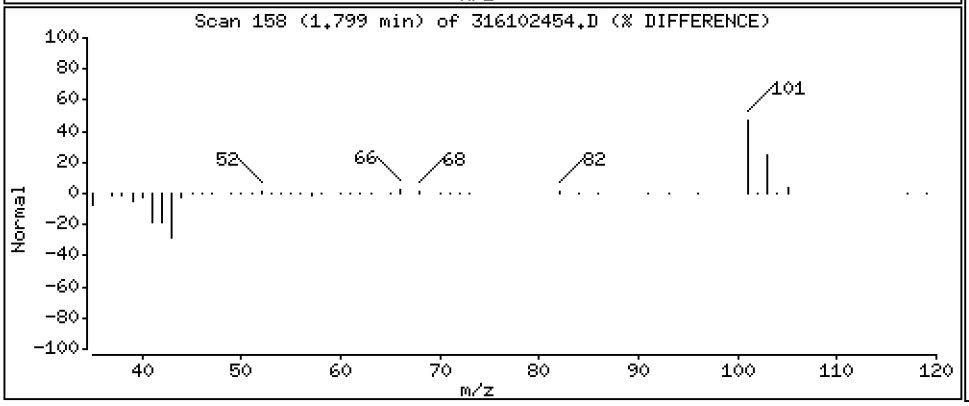
Column phase: DB-VRX Column diameter: 0.25

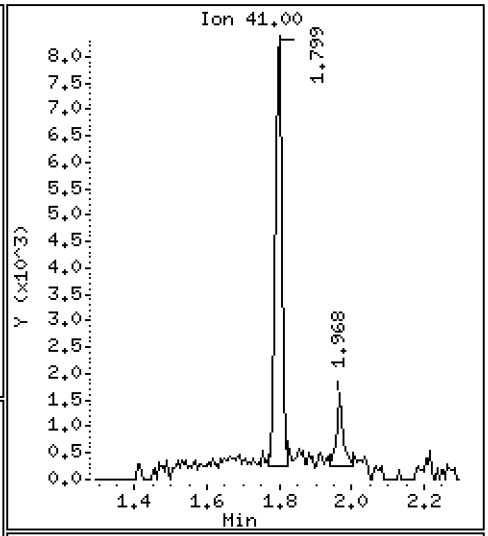
6 Pentane Concentration: 1.37517 ug/L

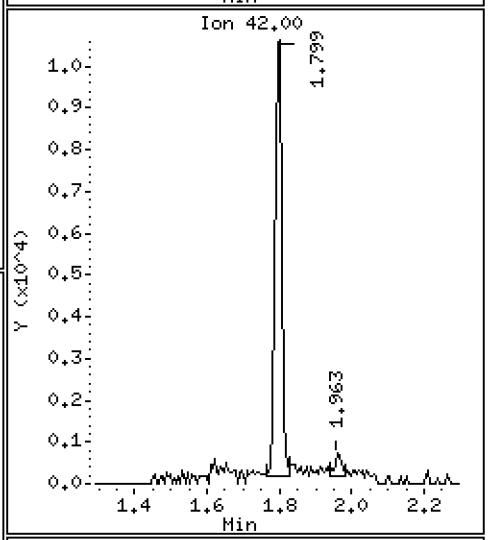


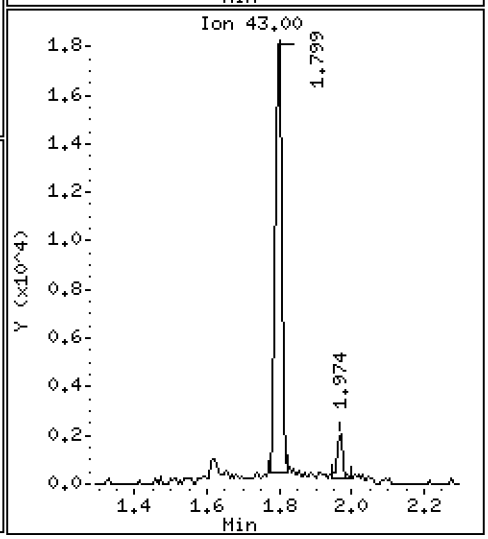












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 15

Date : 24-OCT-2016 23:46

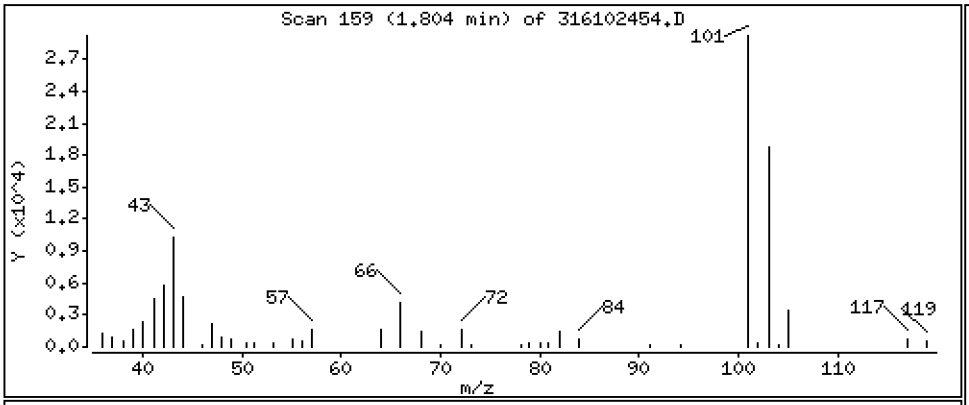
Client ID: Instrument: ms03.i

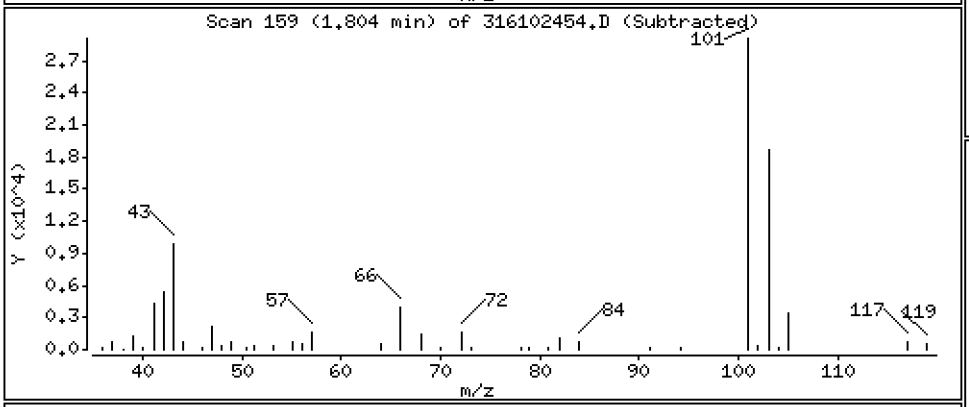
Sample Info: 1234;;1;1;1;;;

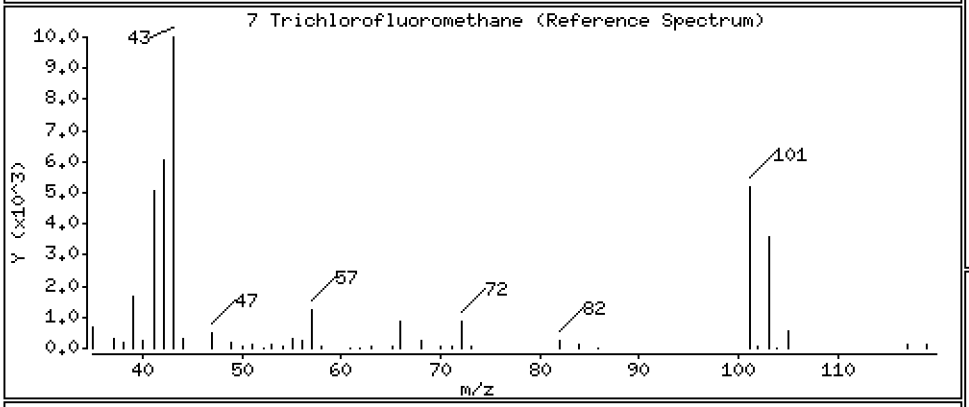
Purge Volume: 5.0 Operator: CJG

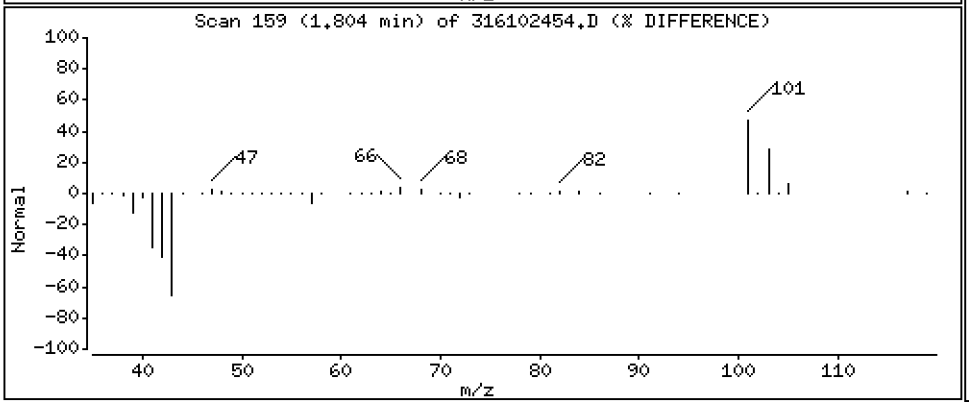
Column phase: DB-VRX Column diameter: 0.25

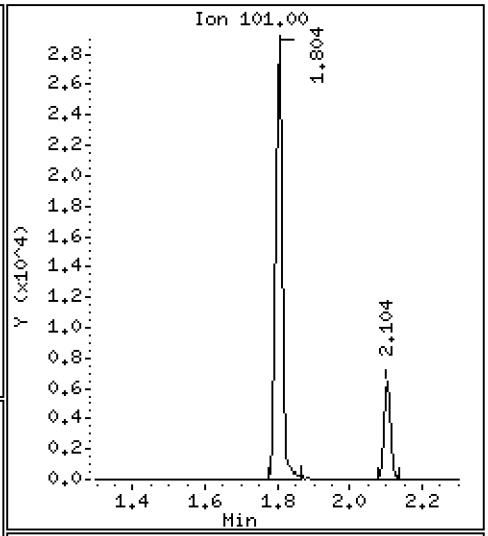
7 Trichlorofluoromethane Concentration: 2.58823 ug/L

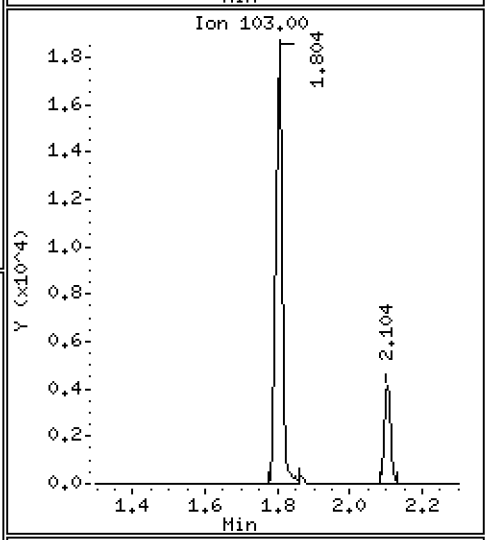


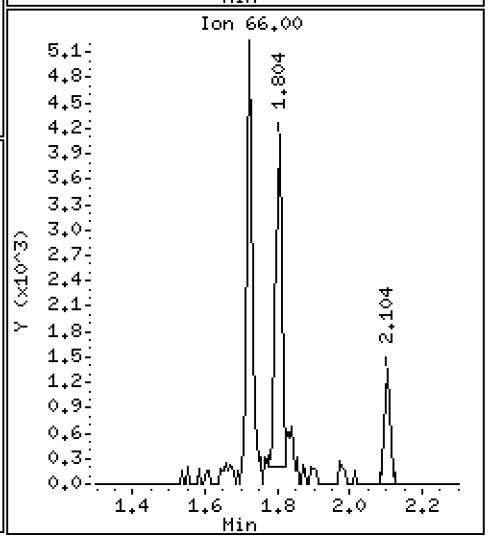












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 16

Date : 24-OCT-2016 23:46

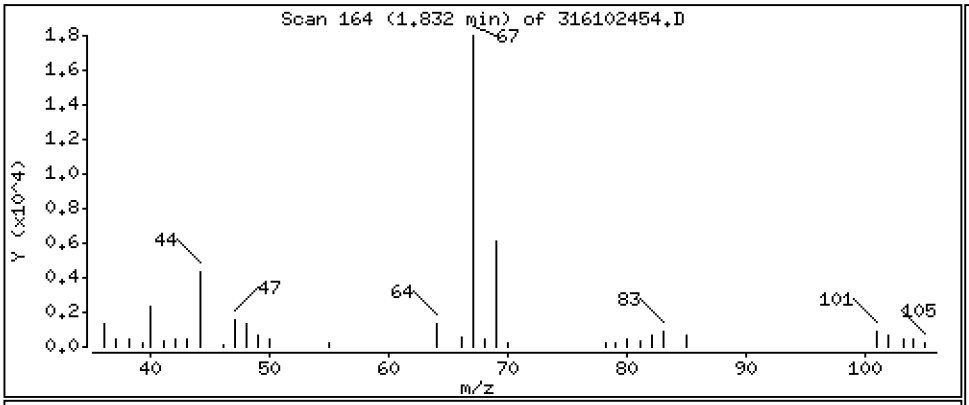
Client ID: Instrument: ms03.i

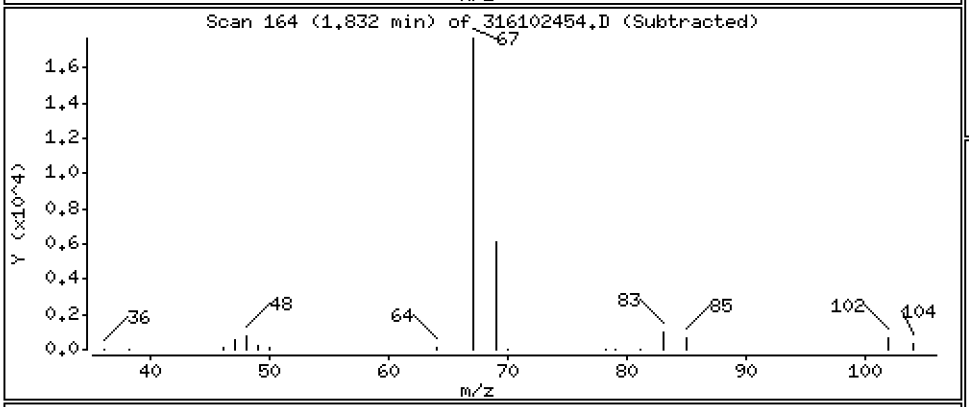
Sample Info: 1234;;1;1;1;;;

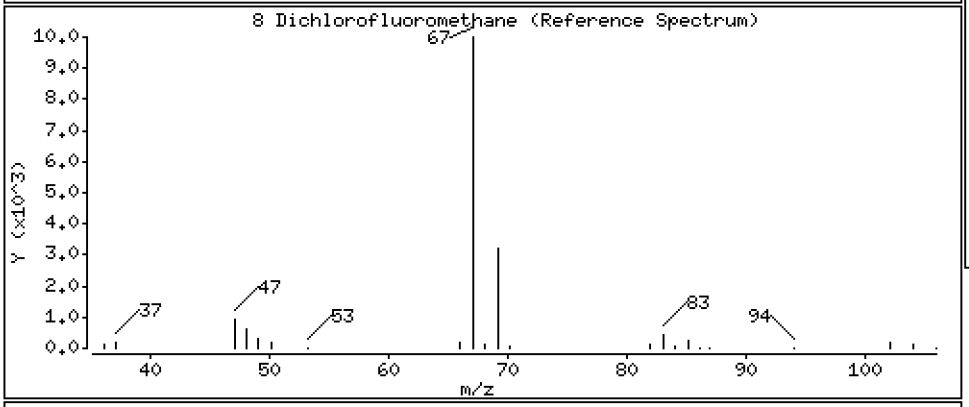
Purge Volume: 5.0 Operator: CJG

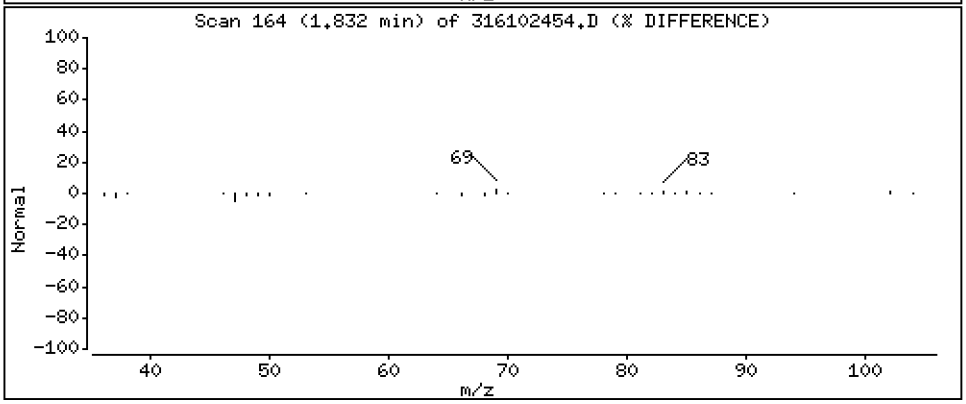
Column phase: DB-VRX Column diameter: 0.25

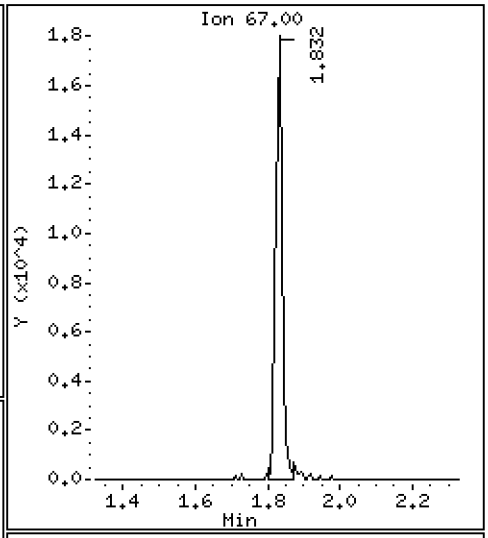
8 Dichlorofluoromethane Concentration: 1.22998 ug/L

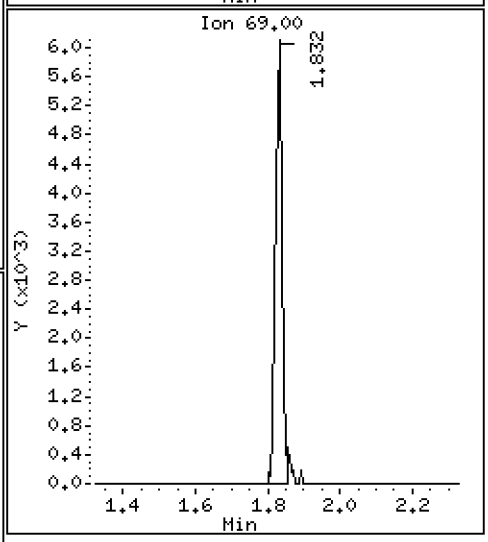












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 17

Date : 24-OCT-2016 23:46

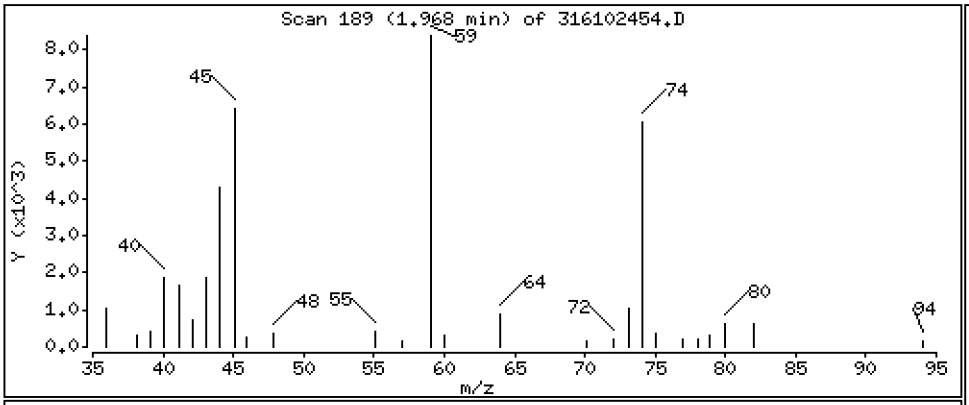
Client ID: Instrument: ms03.i

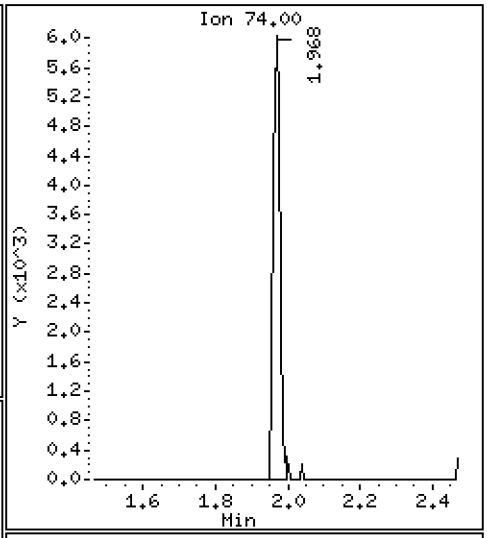
Sample Info: 1234;;1;1;1;;;

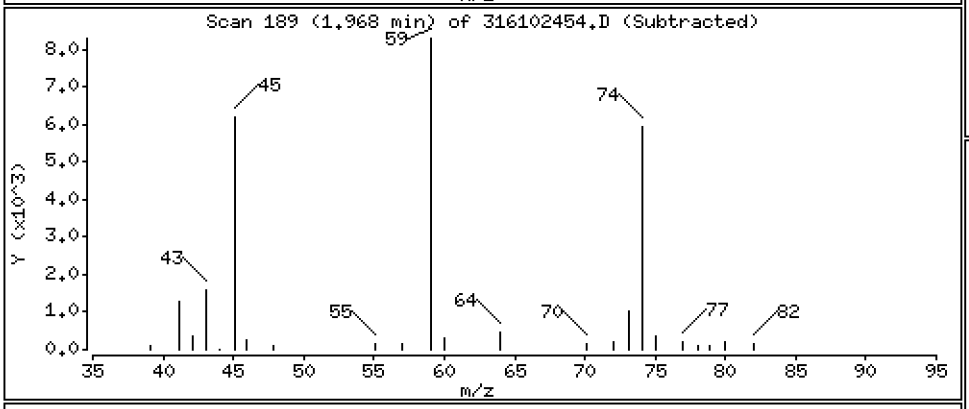
Purge Volume: 5.0 Operator: CJG

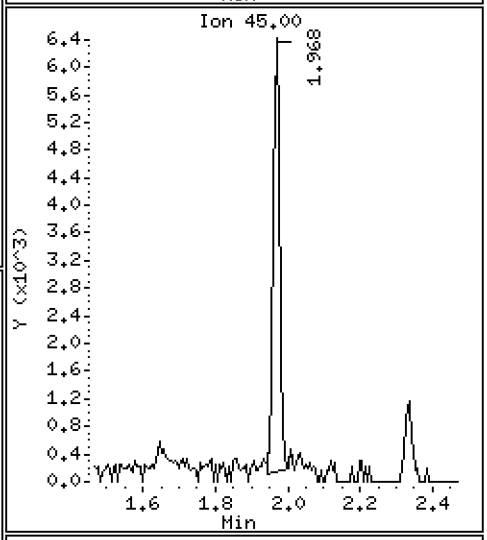
Column phase: DB-VRX Column diameter: 0.25

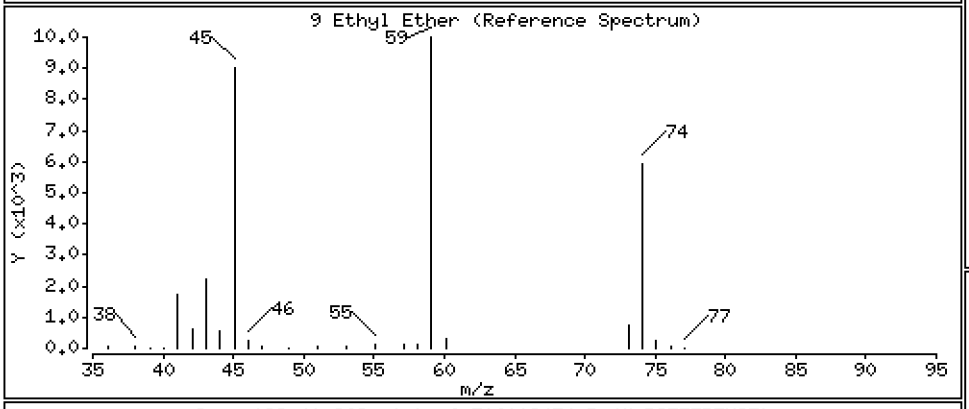
9 Ethyl Ether Concentration: 1.22649 ug/L

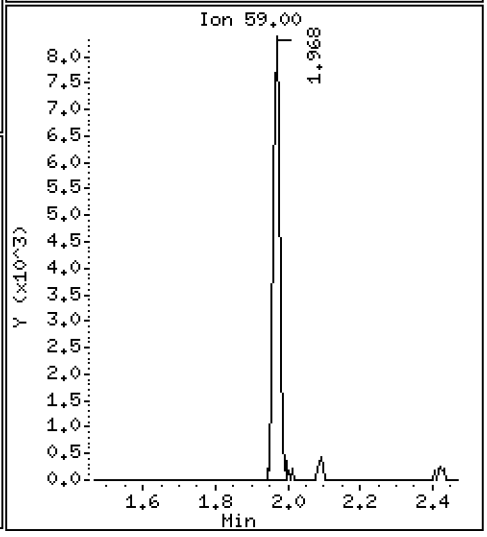


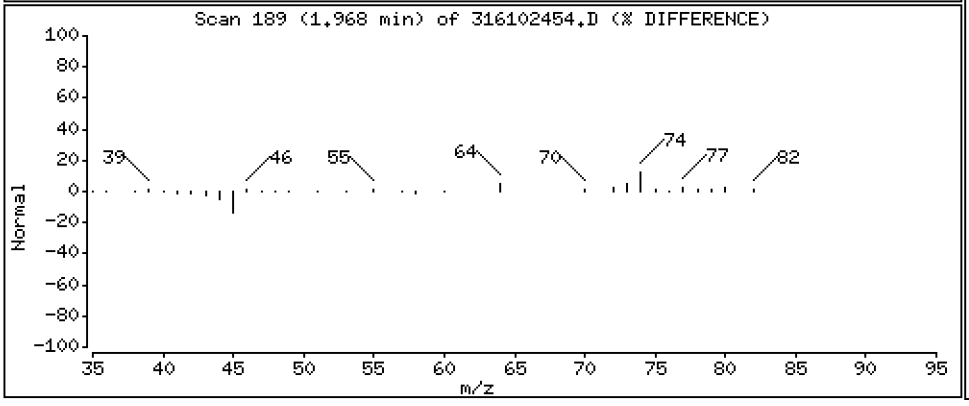












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 18

Date : 24-OCT-2016 23:46

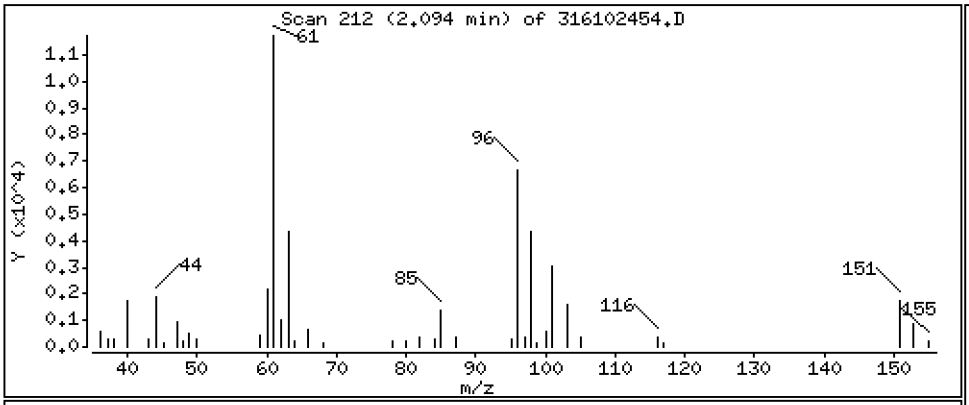
Client ID: Instrument: ms03.i

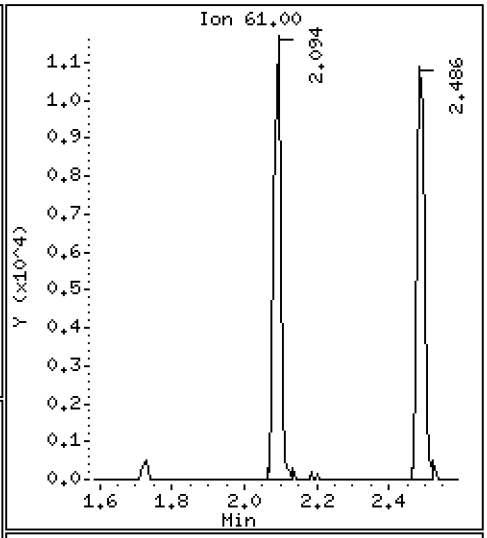
Sample Info: 1234;;1;1;1;;;

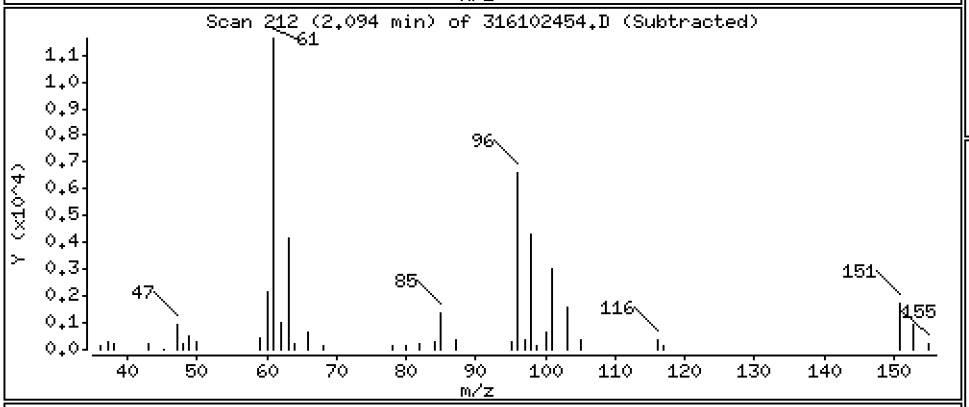
Purge Volume: 5.0 Operator: CJG

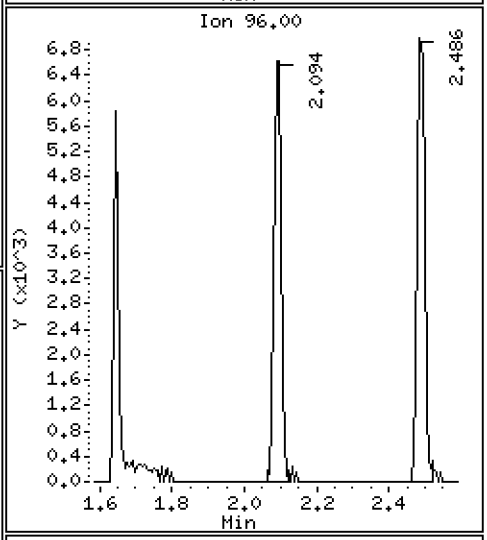
Column phase: DB-VRX Column diameter: 0.25

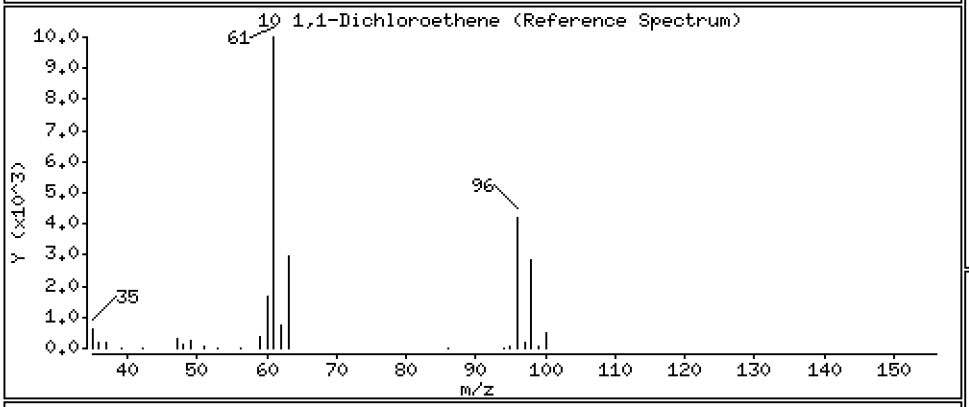
10 1,1-Dichloroethene Concentration: 1.19455 ug/L

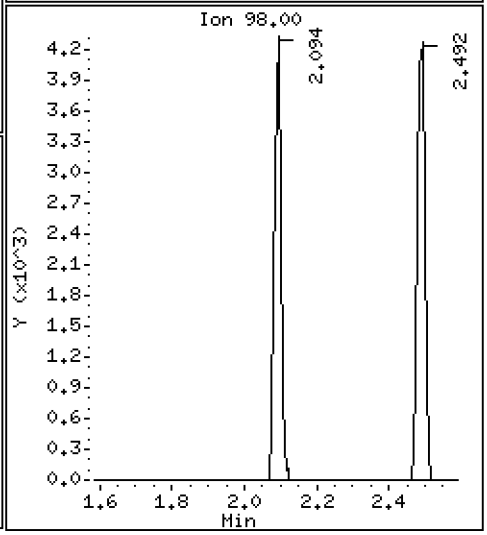


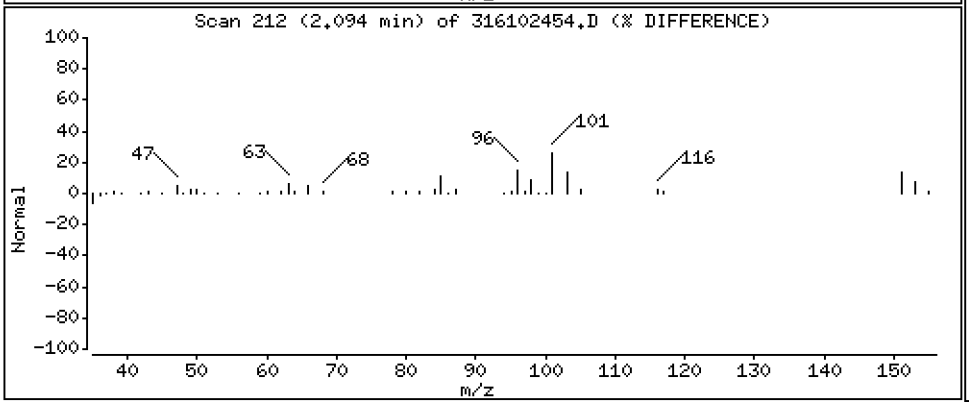












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 19

Date : 24-OCT-2016 23:46

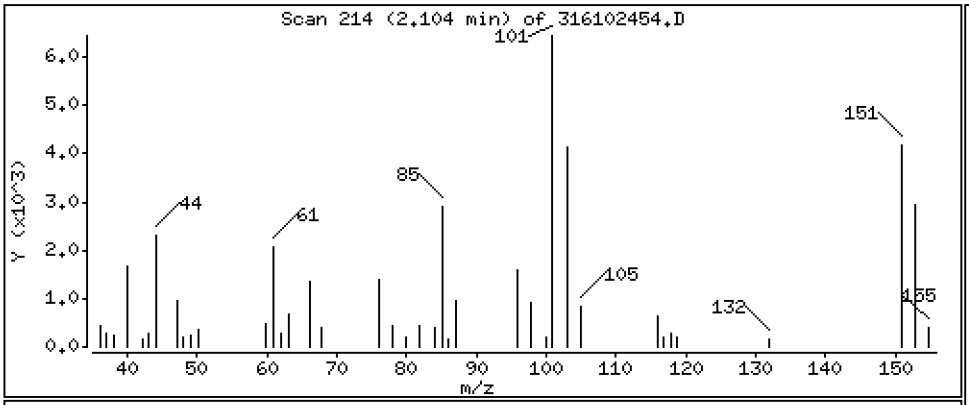
Client ID: Instrument: ms03.i

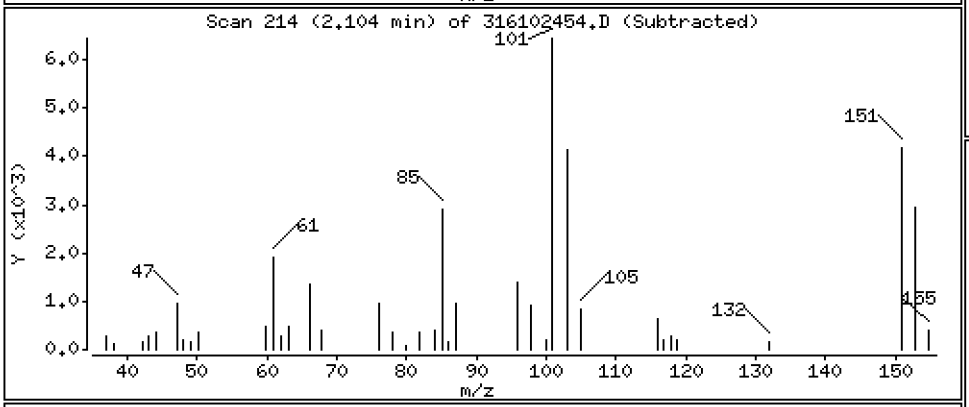
Sample Info: 1234;;1;1;1;;;

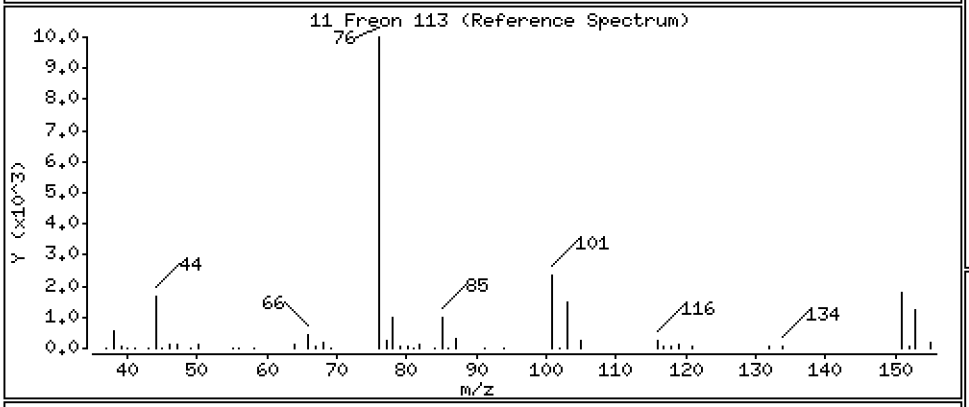
Purge Volume: 5.0 Operator: CJG

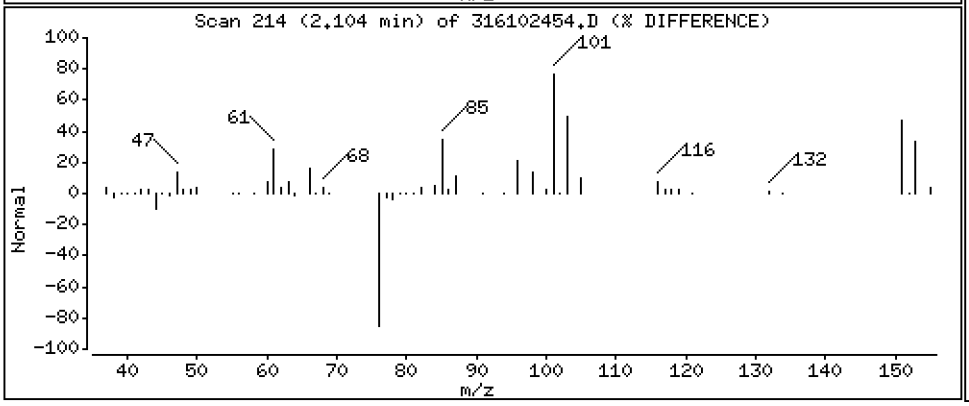
Column phase: DB-VRX Column diameter: 0.25

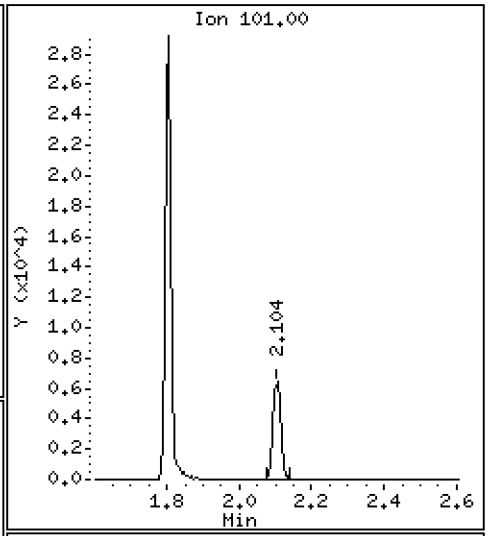
11 Freon 113 Concentration: 1.39887 ug/L

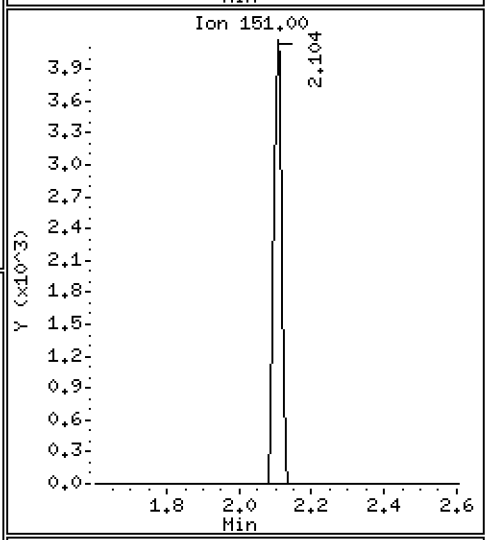


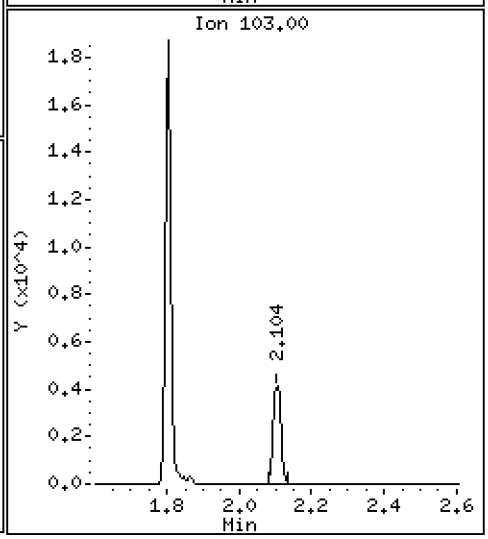












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 20

Date : 24-OCT-2016 23:46

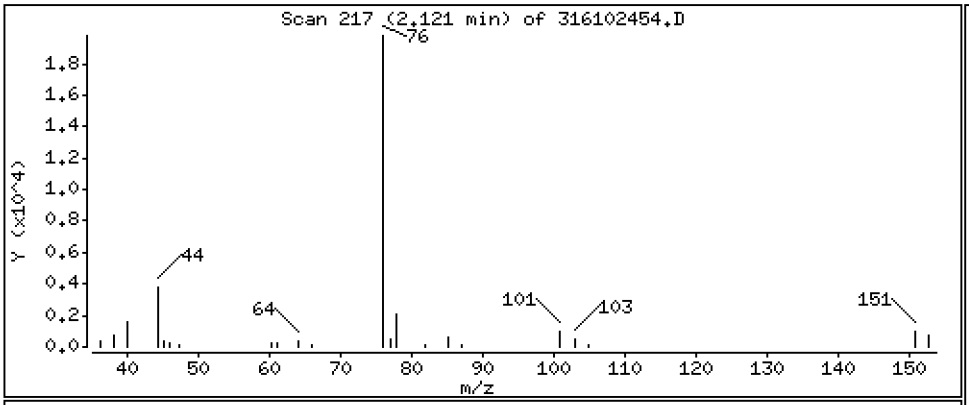
Client ID: Instrument: ms03.i

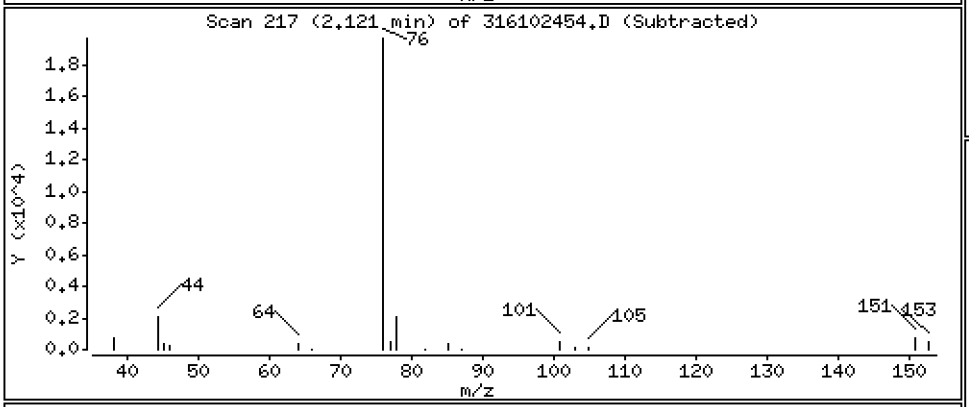
Sample Info: 1234;;1;1;1;;;

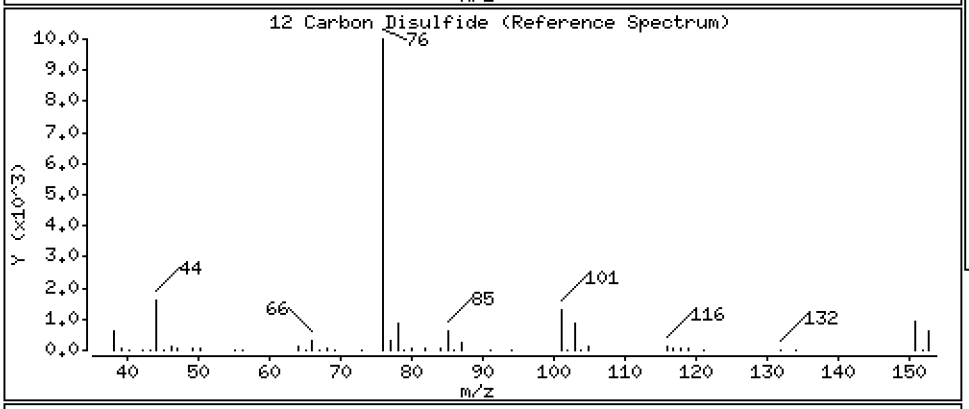
Purge Volume: 5.0 Operator: CJG

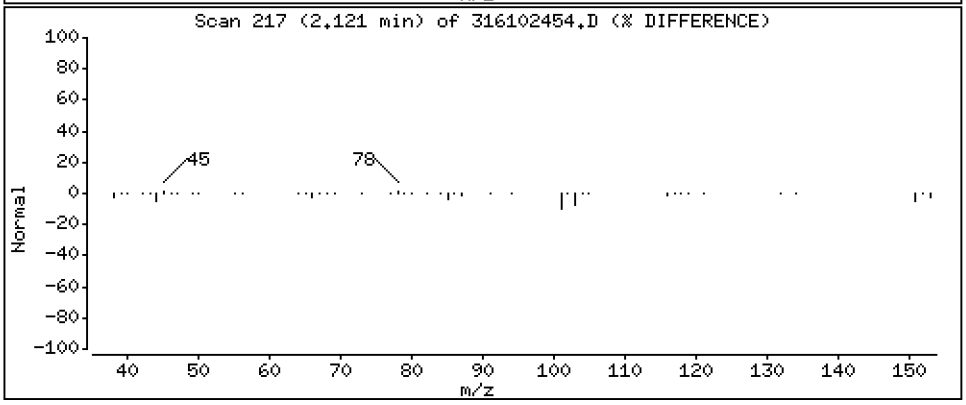
Column phase: DB-VRX Column diameter: 0.25

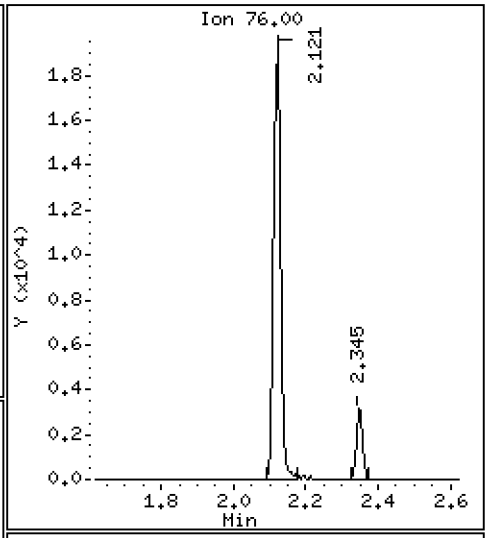
12 Carbon Disulfide Concentration: 1.07202 ug/L

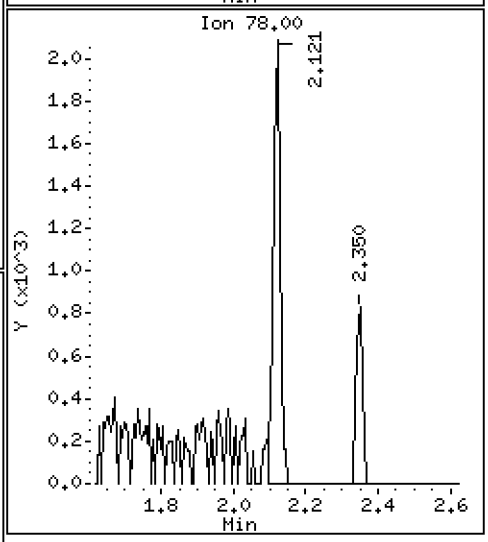












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 21

Date : 24-OCT-2016 23:46

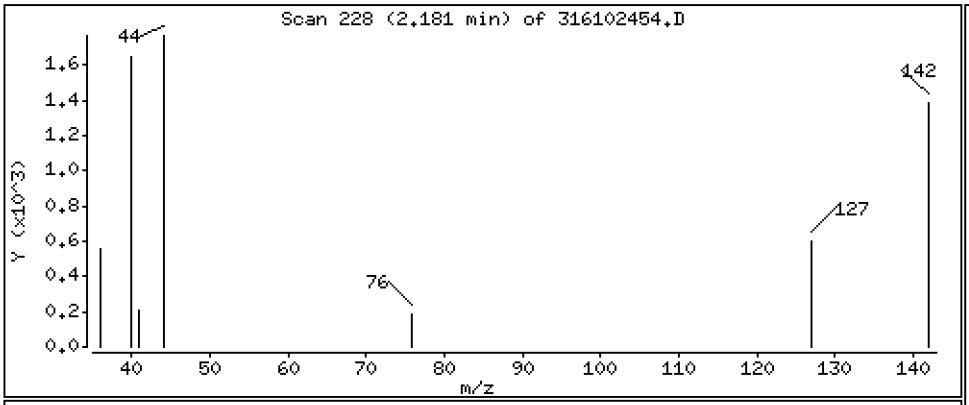
Client ID: Instrument: ms03.i

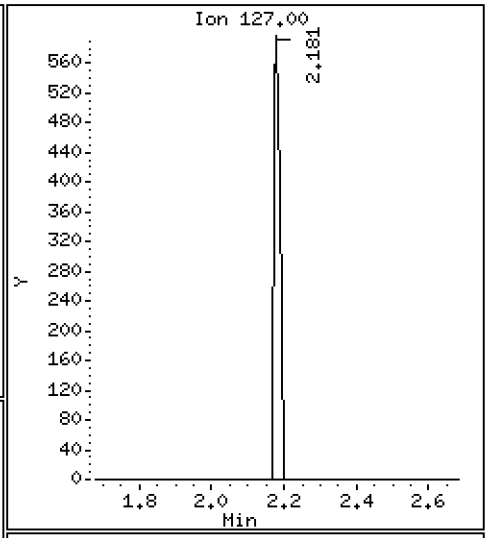
Sample Info: 1234;;1;1;1;;;

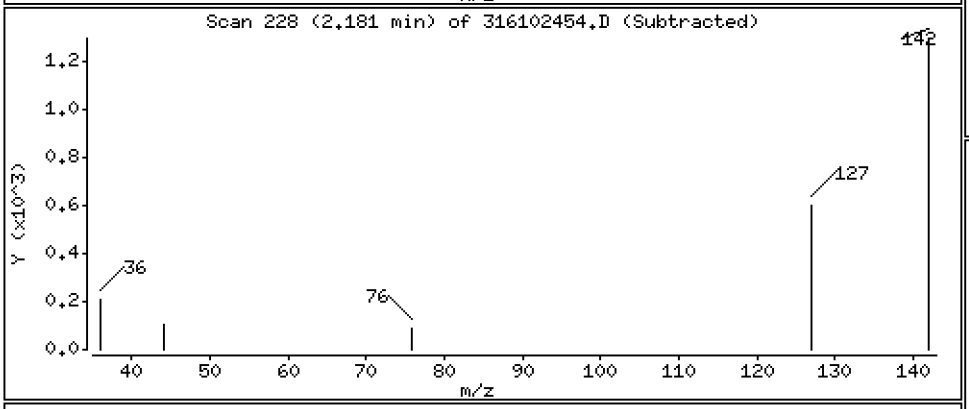
Purge Volume: 5.0 Operator: CJG

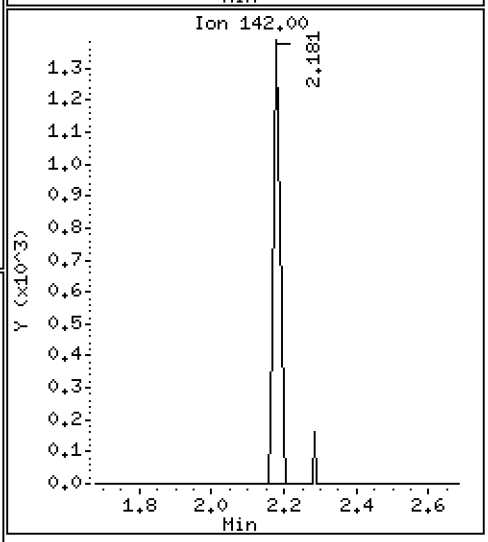
Column phase: DB-VRX Column diameter: 0.25

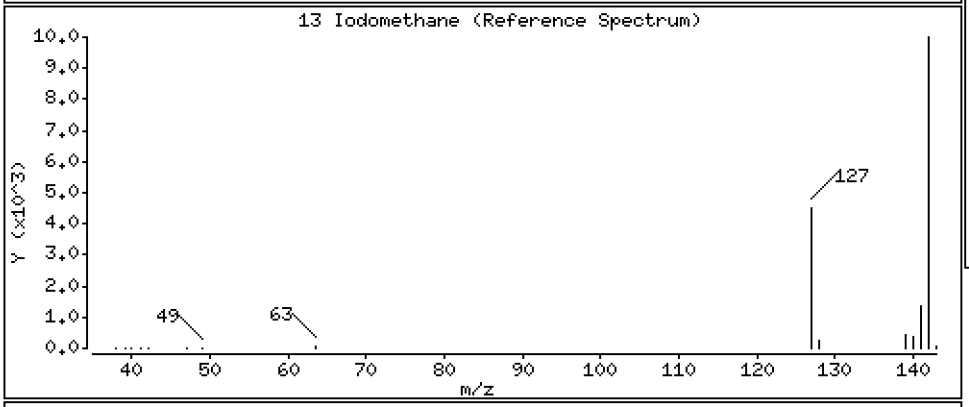
13 Iodomethane Concentration: 3.22654 ug/L

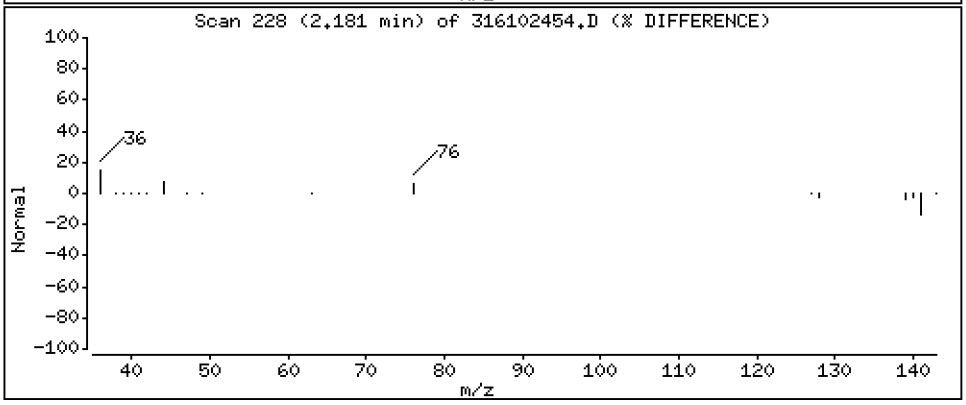












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 22

Date : 24-OCT-2016 23:46

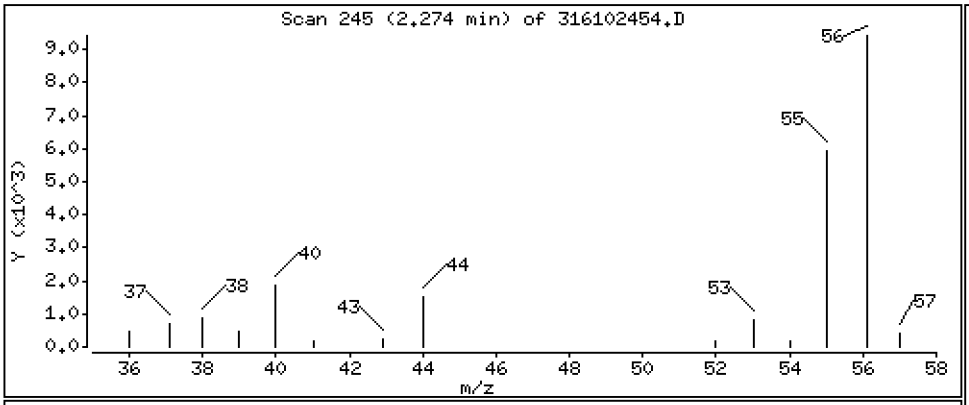
Client ID: Instrument: ms03.i

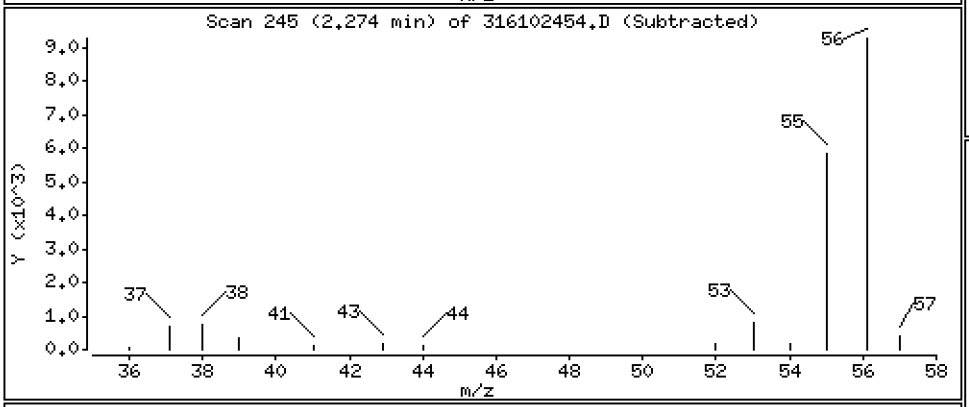
Sample Info: 1234;;1;1;1;;;

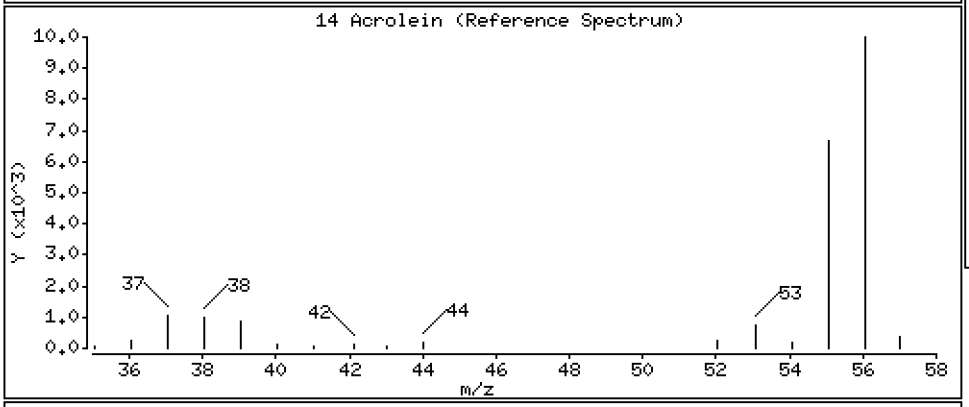
Purge Volume: 5.0 Operator: CJG

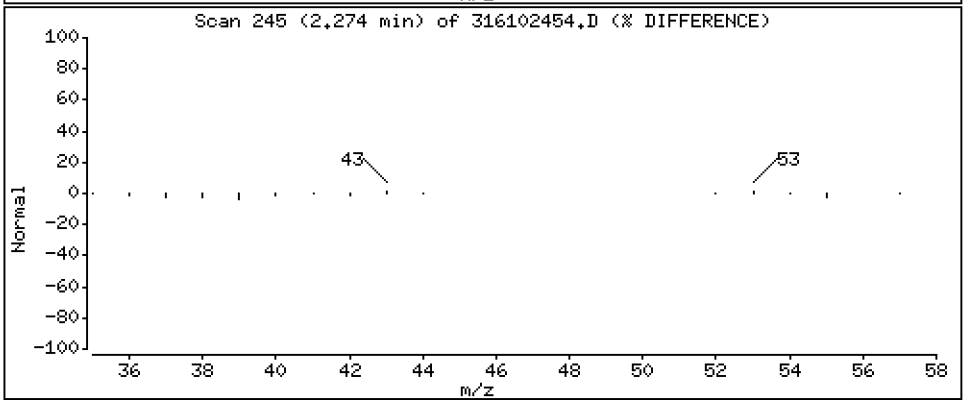
Column phase: DB-VRX Column diameter: 0.25

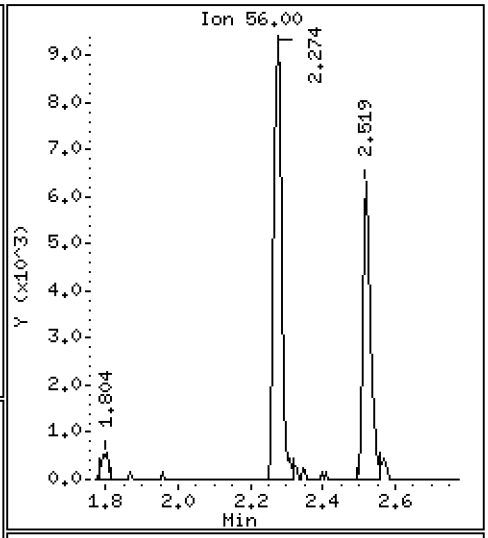
14 Acrolein Concentration: 10.6701 ug/L

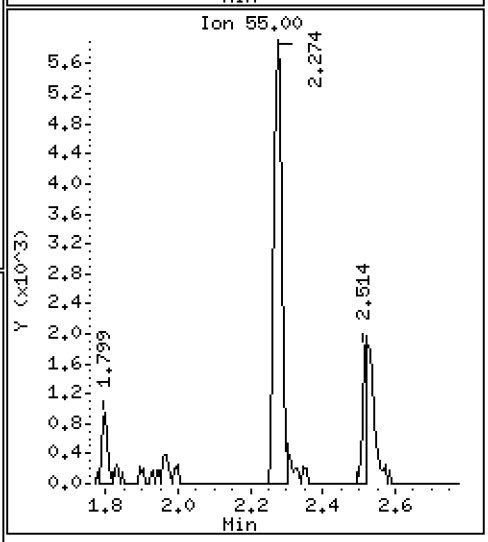












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 23

Date : 24-OCT-2016 23:46

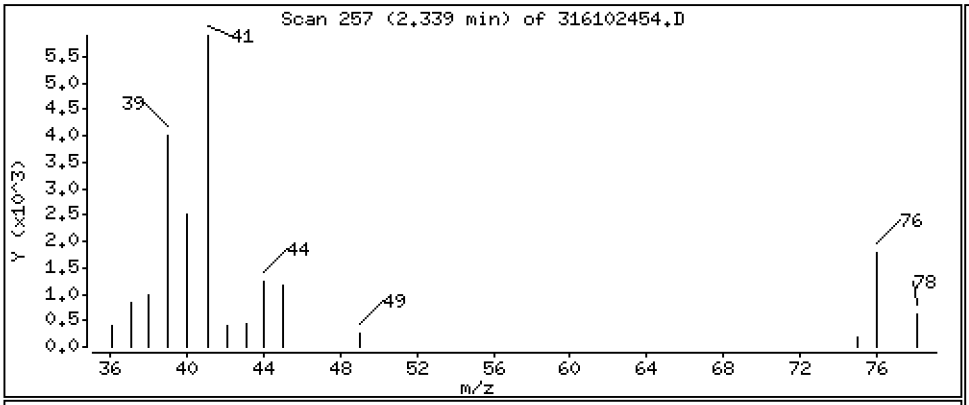
Client ID: Instrument: ms03.i

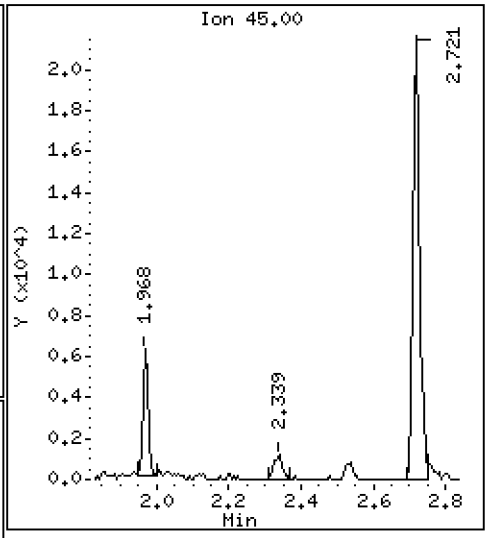
Sample Info: 1234;;1;1;1;;;

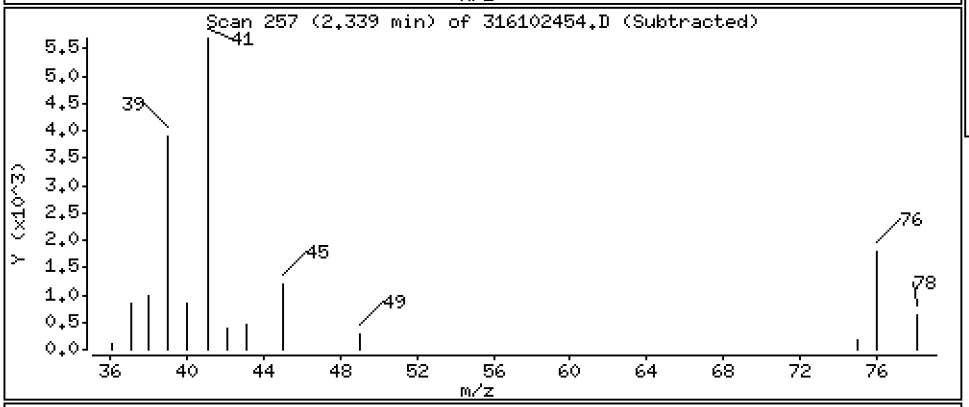
Purge Volume: 5.0 Operator: CJG

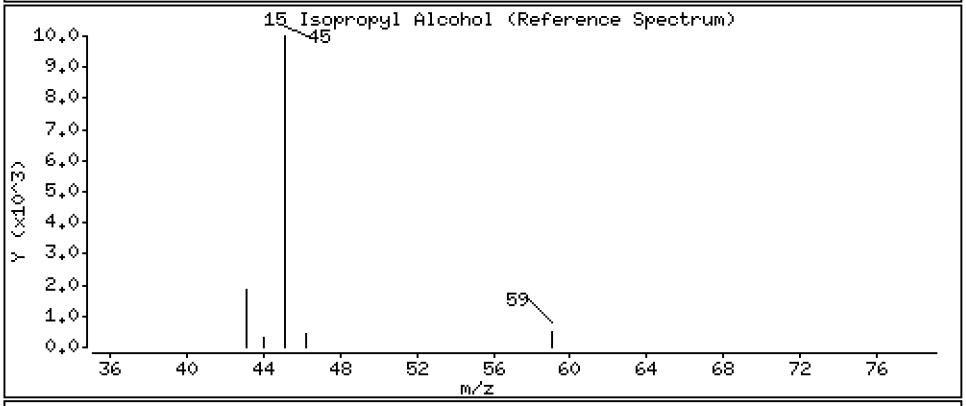
Column phase: DB-VRX Column diameter: 0.25

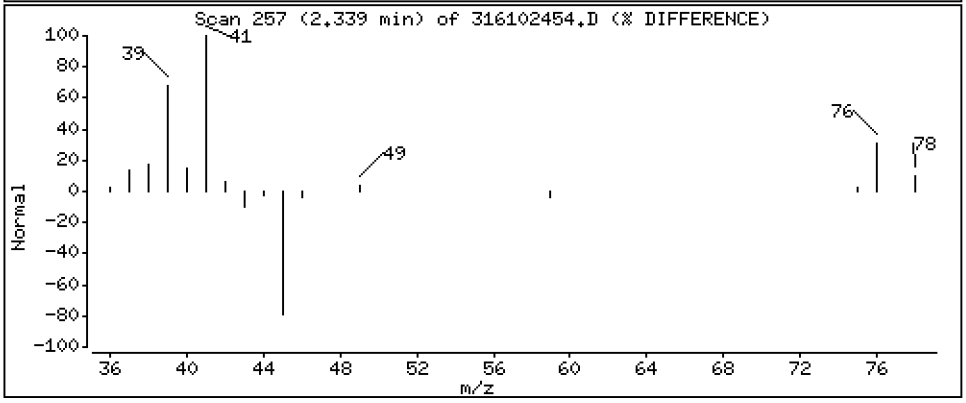
15 Isopropyl Alcohol Concentration: 6.57498 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 24

Date : 24-OCT-2016 23:46

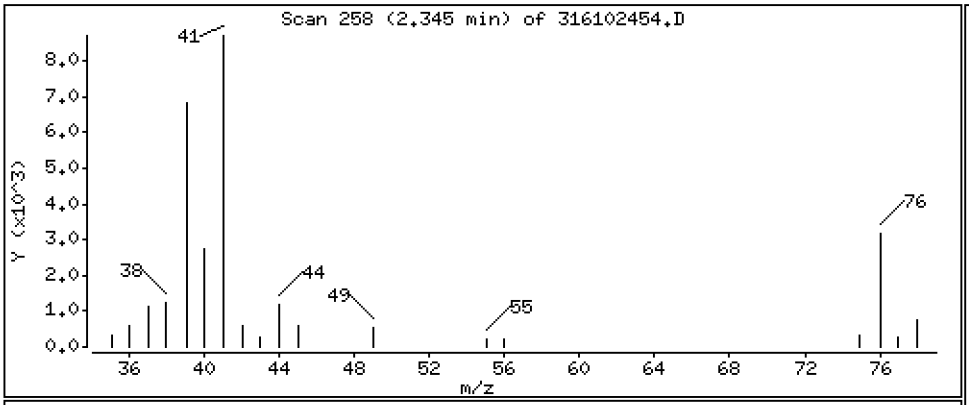
Client ID: Instrument: ms03.i

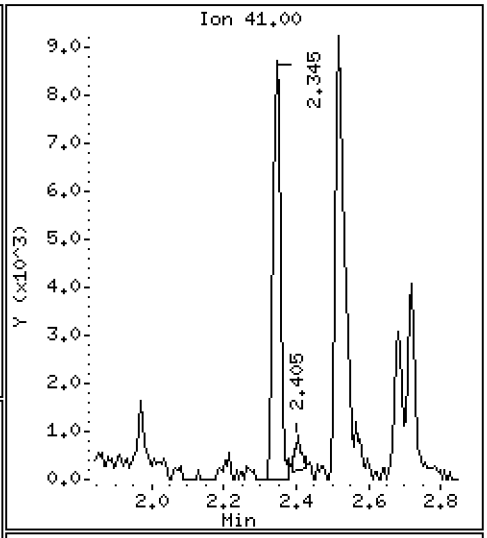
Sample Info: 1234;;1;1;1;;;

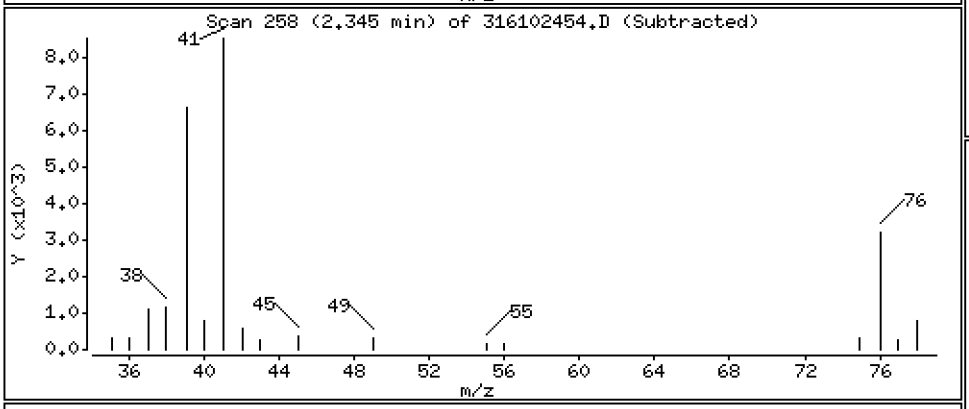
Purge Volume: 5.0 Operator: CJG

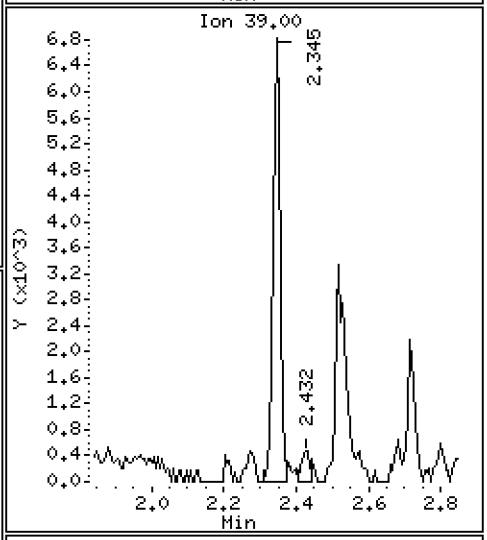
Column phase: DB-VRX Column diameter: 0.25

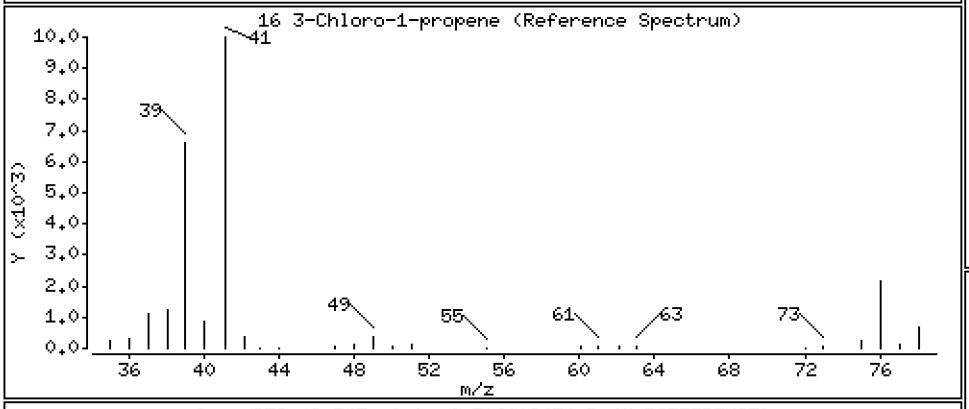
16 3-Chloro-1-propene Concentration: 0.964410 ug/L

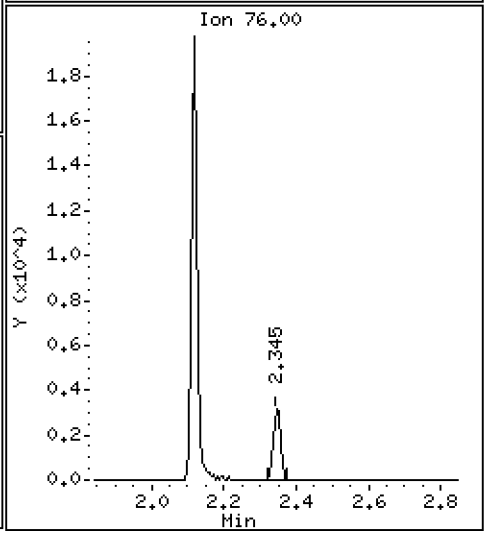


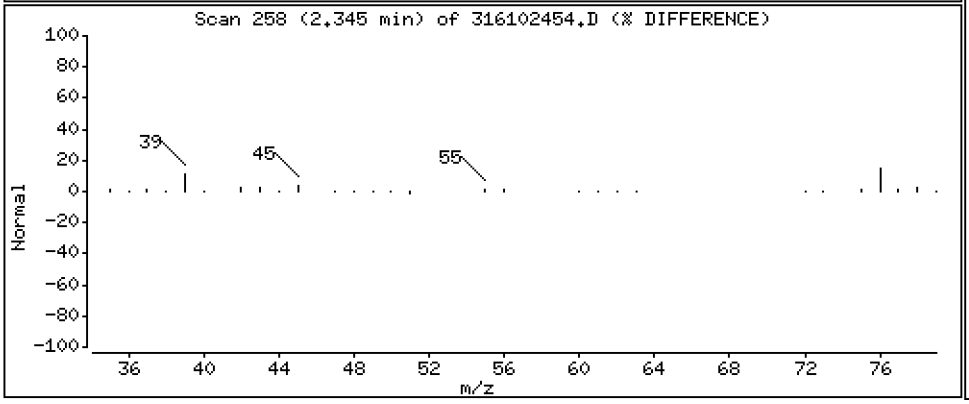












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 25

Date : 24-OCT-2016 23:46

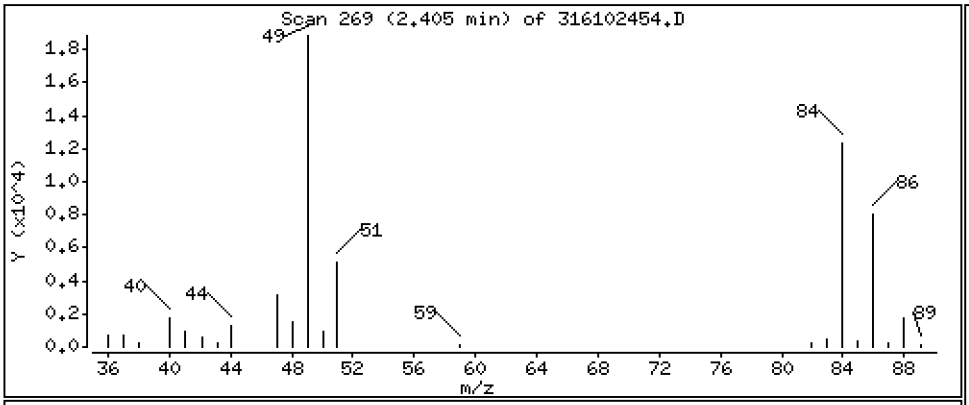
Client ID: Instrument: ms03.i

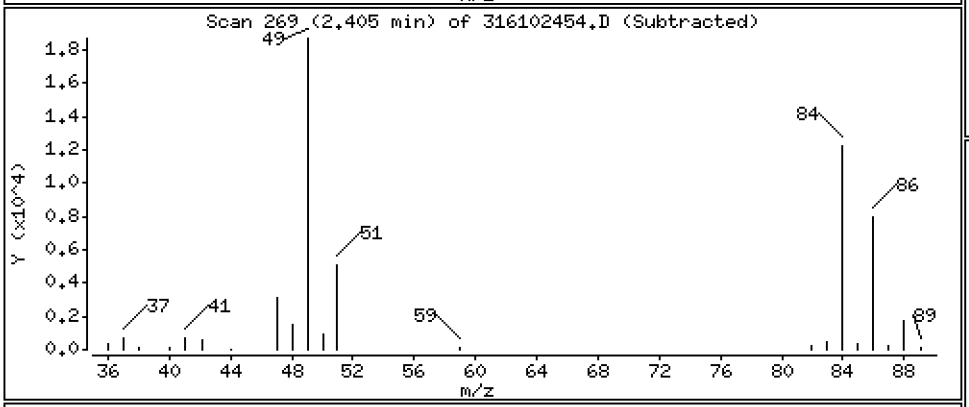
Sample Info: 1234;;1;1;1;;;

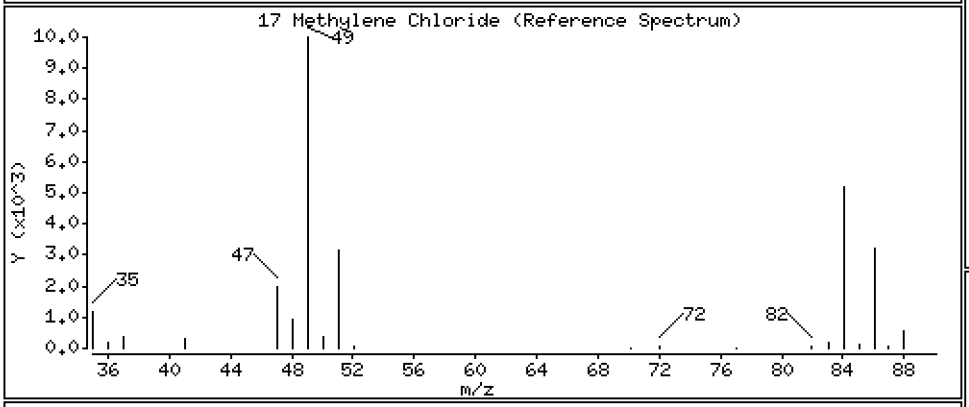
Purge Volume: 5.0 Operator: CJG

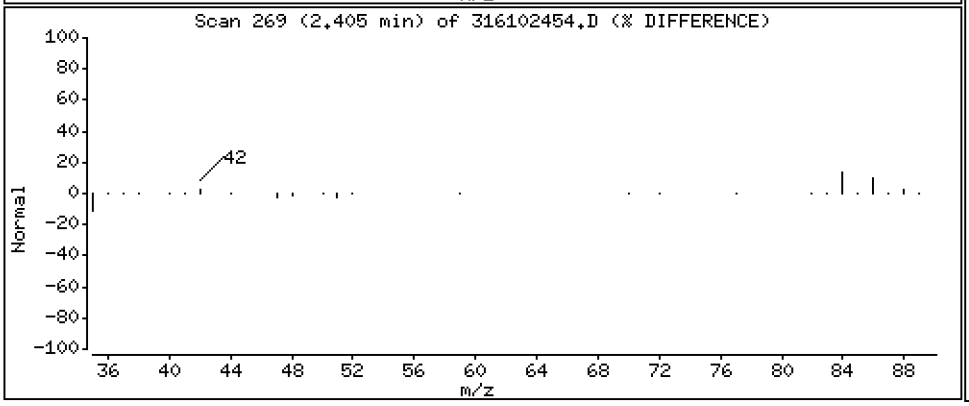
Column phase: DB-VRX Column diameter: 0.25

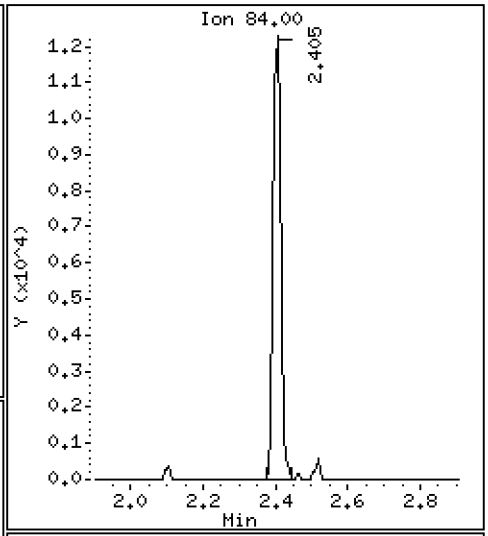
17 Methylene Chloride Concentration: 0.866807 ug/L

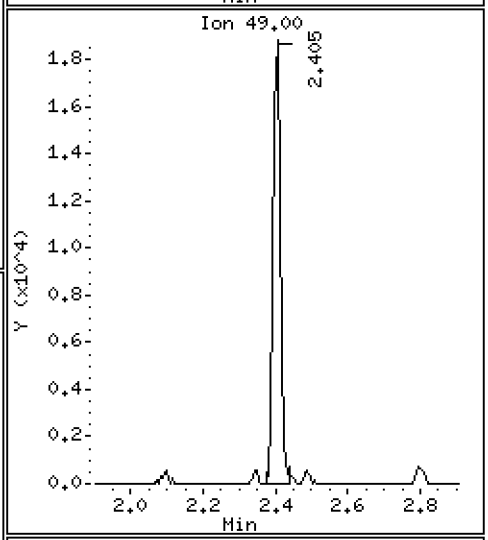


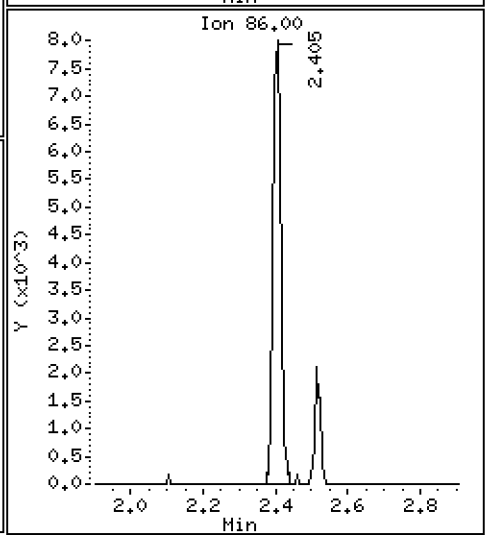












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 26

Date : 24-OCT-2016 23:46

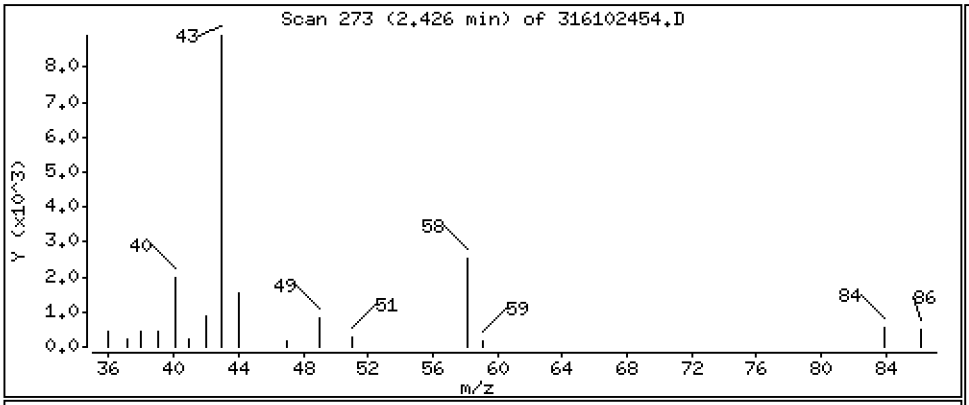
Client ID: Instrument: ms03.i

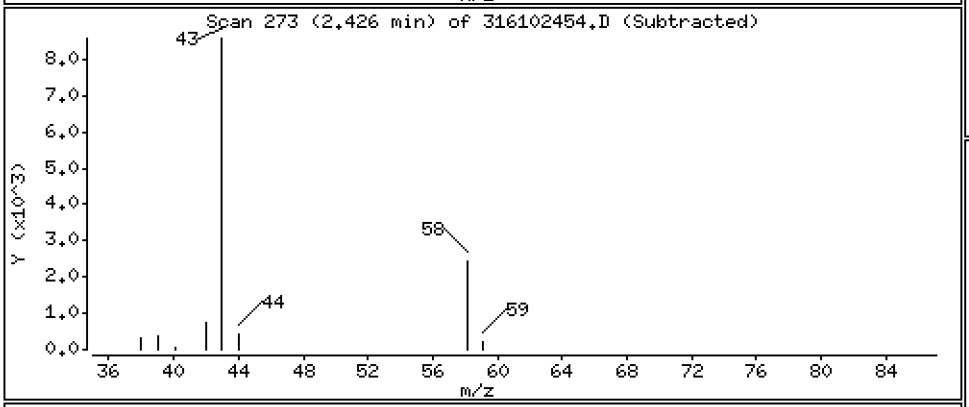
Sample Info: 1234;;1;1;1;;;

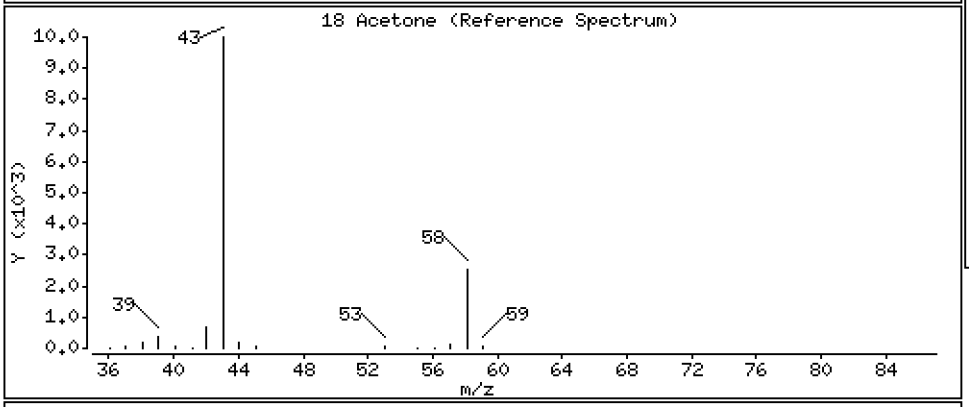
Purge Volume: 5.0 Operator: CJG

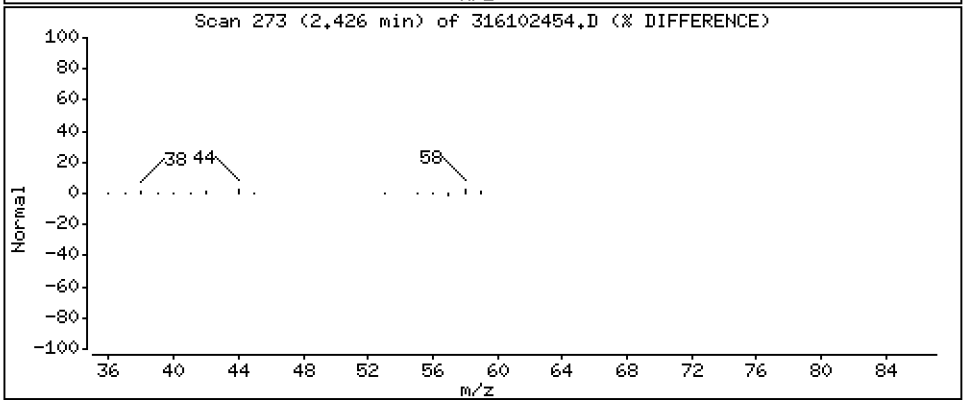
Column phase: DB-VRX Column diameter: 0.25

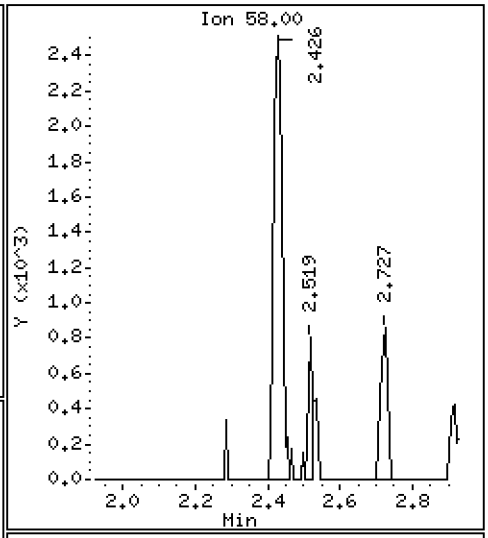
18 Acetone Concentration: 5.97017 ug/L

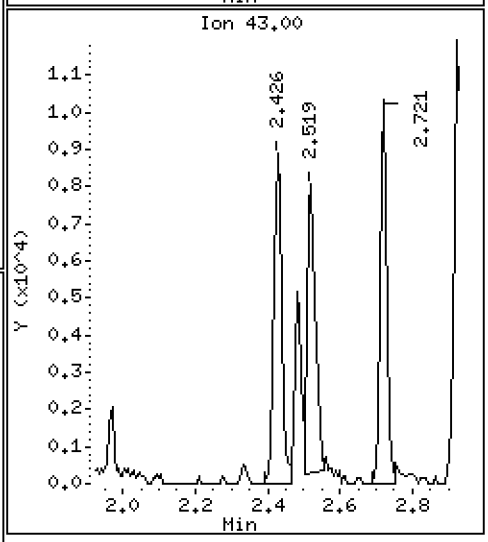












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 27

Date : 24-OCT-2016 23:46

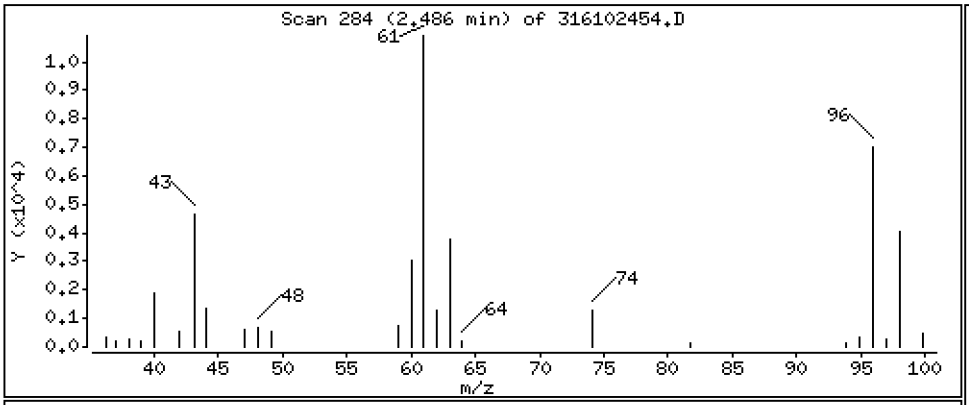
Client ID: Instrument: ms03.i

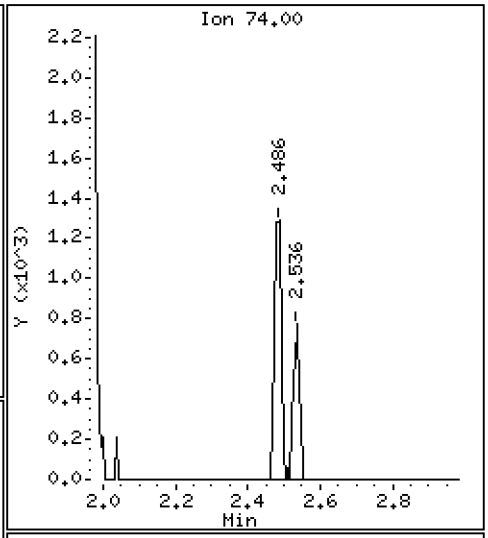
Sample Info: 1234;;1;1;1;;;

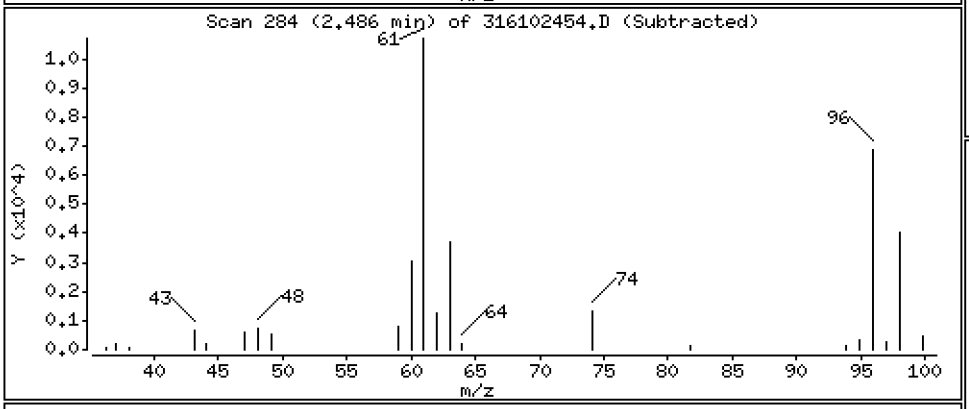
Purge Volume: 5.0 Operator: CJG

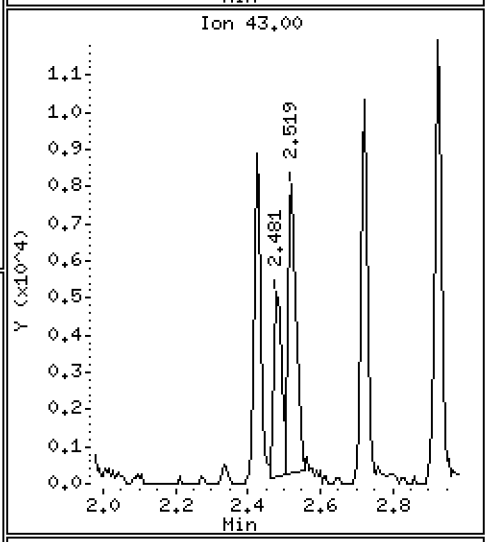
Column phase: DB-VRX Column diameter: 0.25

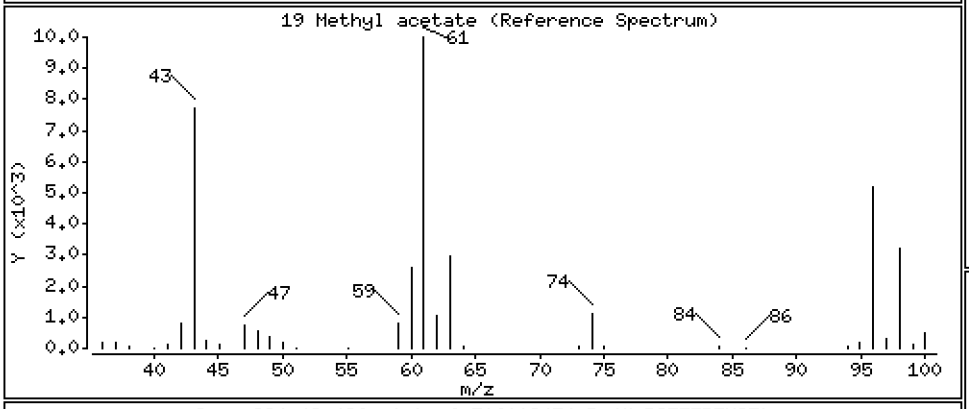
19 Methyl acetate Concentration: 1.15925 ug/L

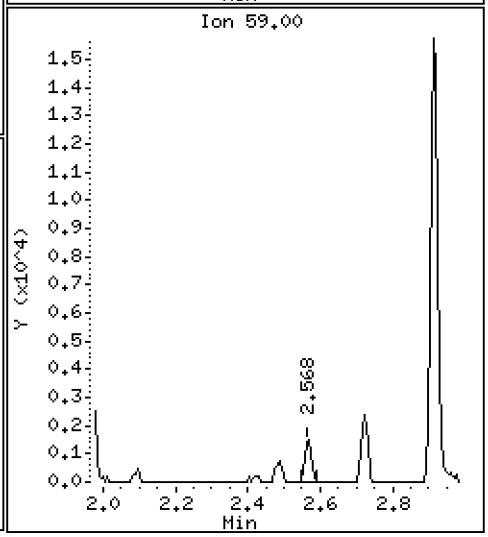


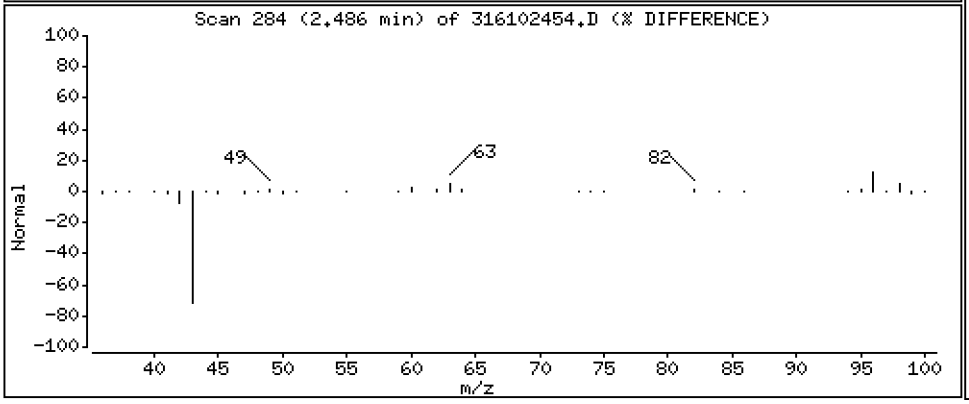












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 28

Date : 24-OCT-2016 23:46

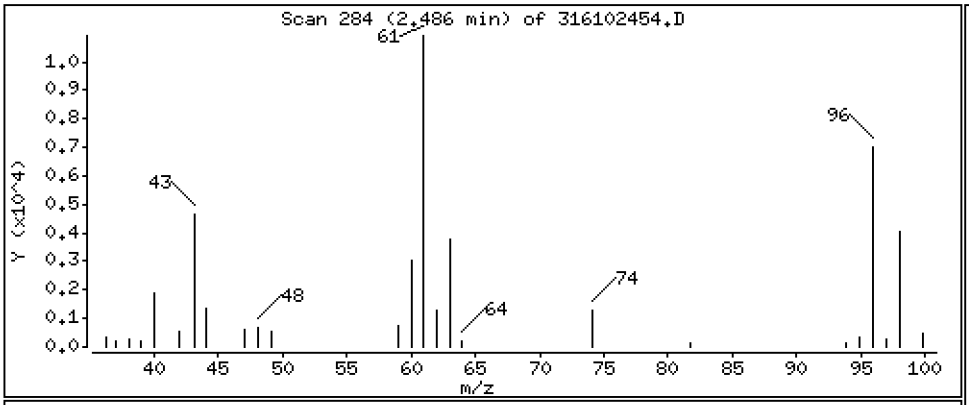
Client ID: Instrument: ms03.i

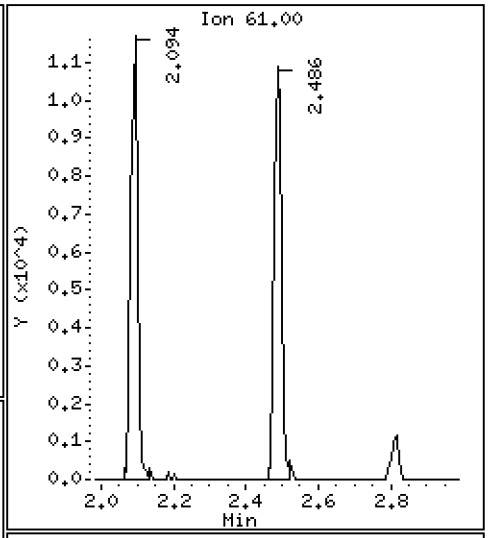
Sample Info: 1234;;1;1;1;;;

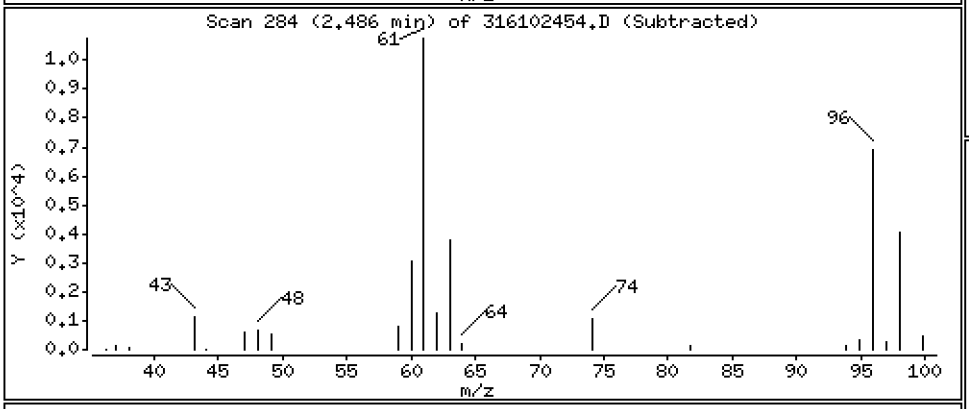
Purge Volume: 5.0 Operator: CJG

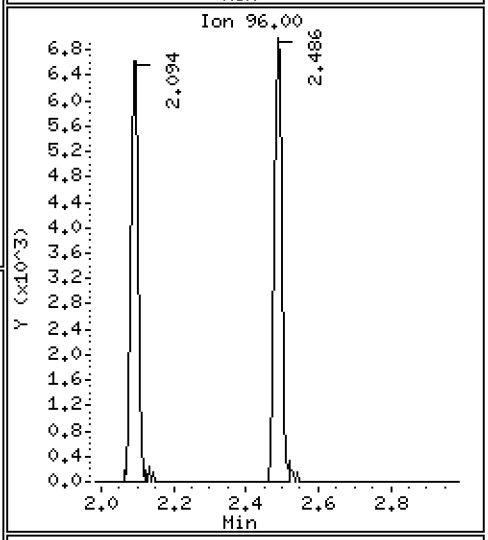
Column phase: DB-VRX Column diameter: 0.25

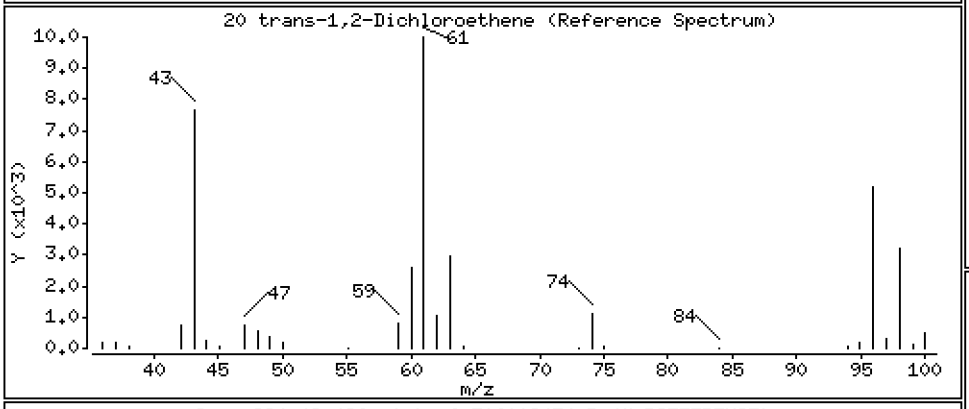
20 trans-1,2-Dichloroethene Concentration: 1.17397 ug/L

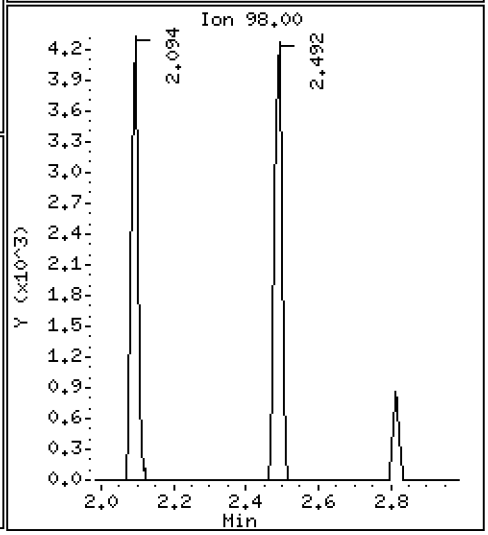


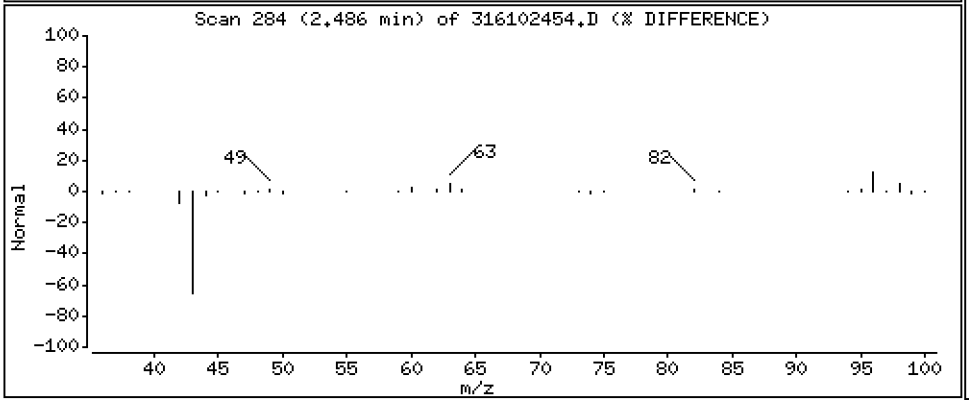












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 29

Date : 24-OCT-2016 23:46

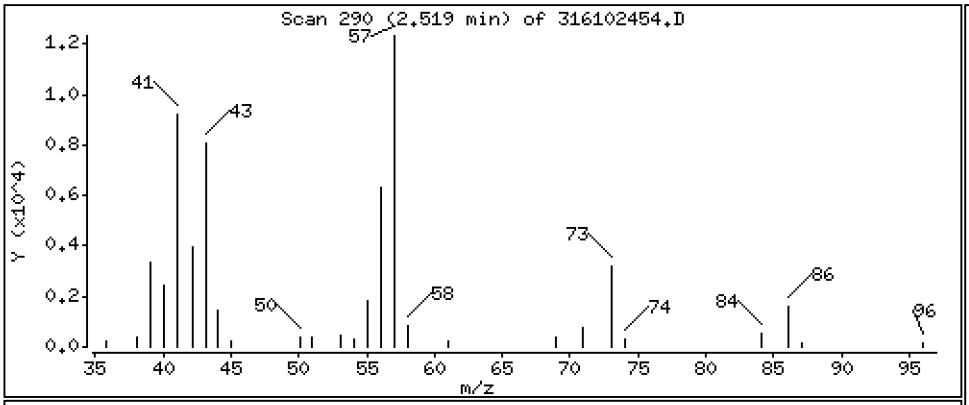
Client ID: Instrument: ms03.i

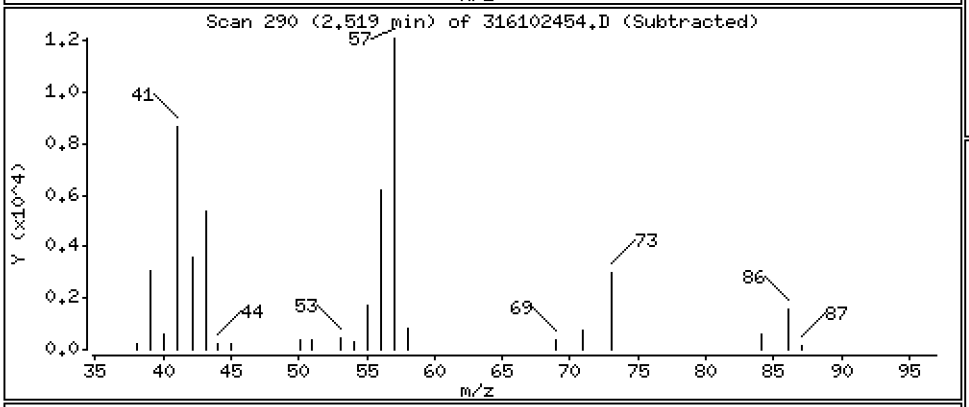
Sample Info: 1234;;1;1;1;;;

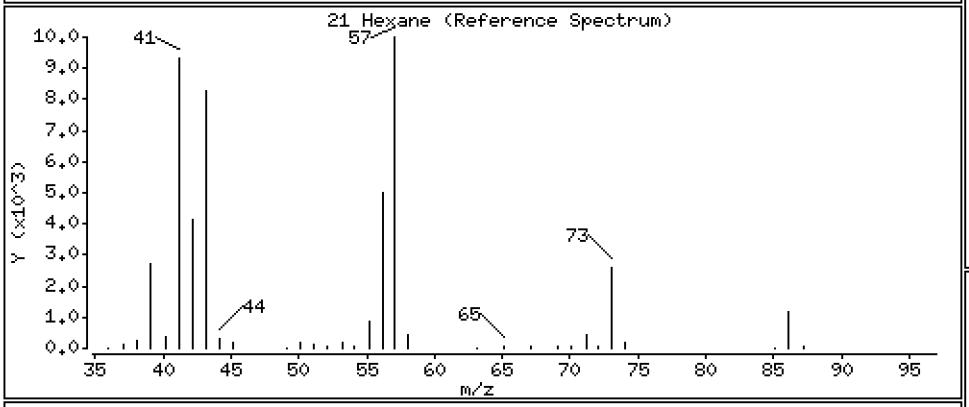
Purge Volume: 5.0 Operator: CJG

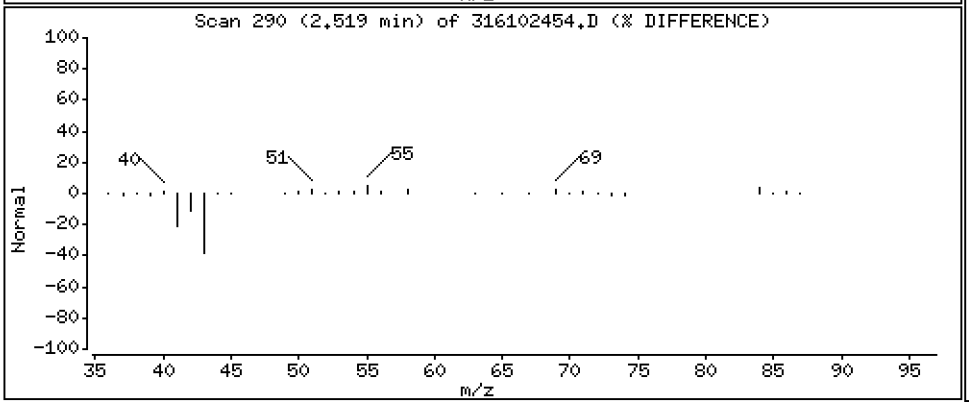
Column phase: DB-VRX Column diameter: 0.25

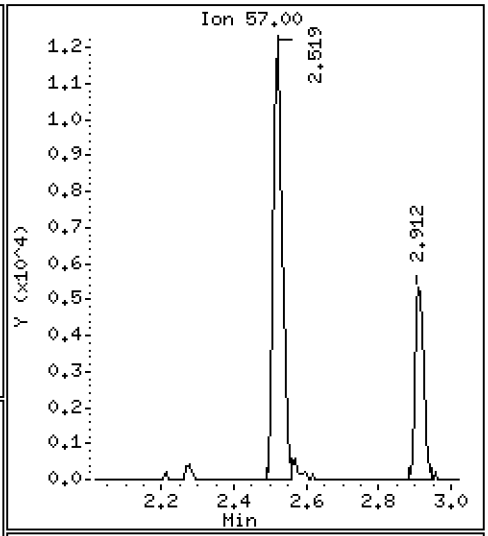
21 Hexane Concentration: 1.15589 ug/L

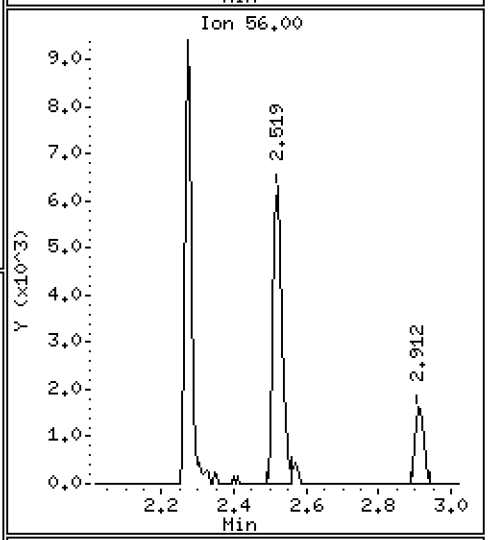


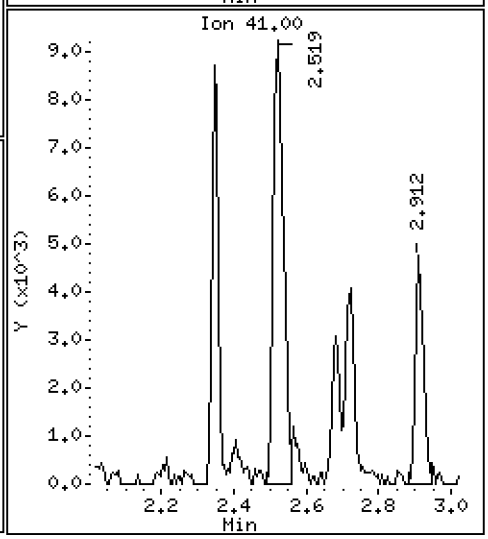












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 30

Date : 24-OCT-2016 23:46

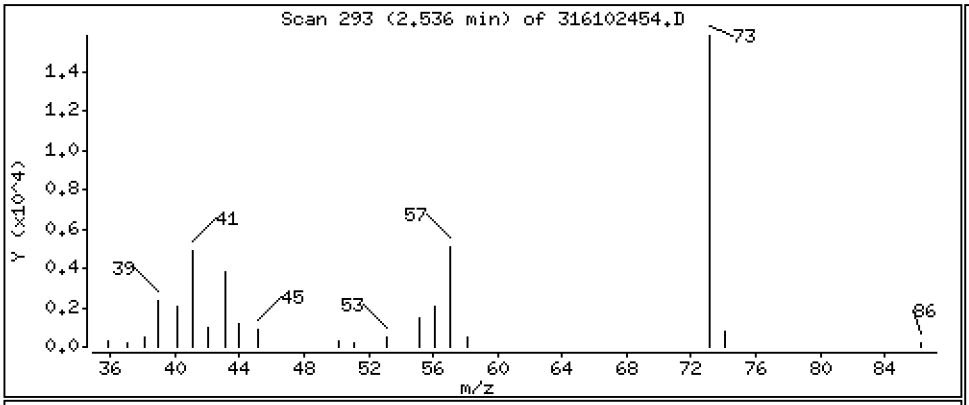
Client ID: Instrument: ms03.i

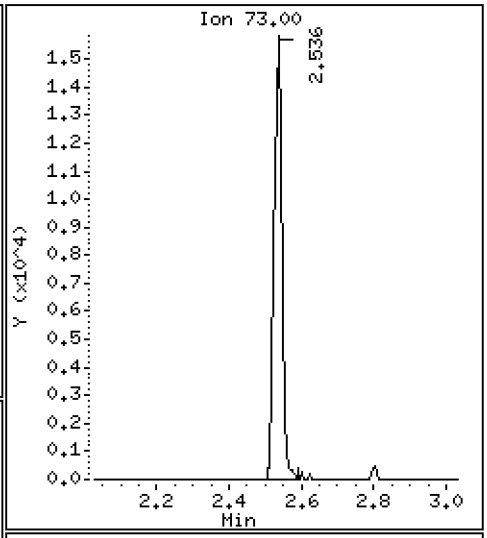
Sample Info: 1234;;1;1;1;;;

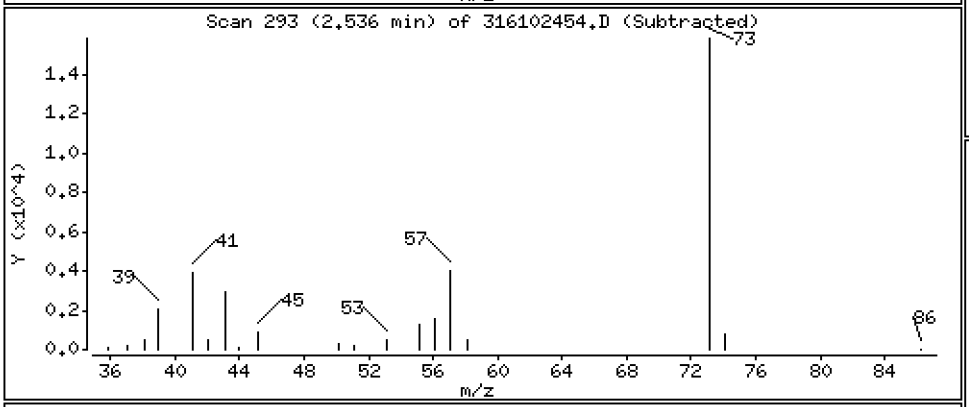
Purge Volume: 5.0 Operator: CJG

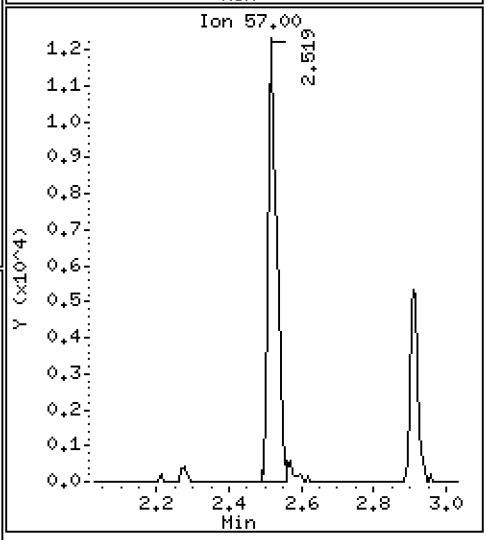
Column phase: DB-VRX Column diameter: 0.25

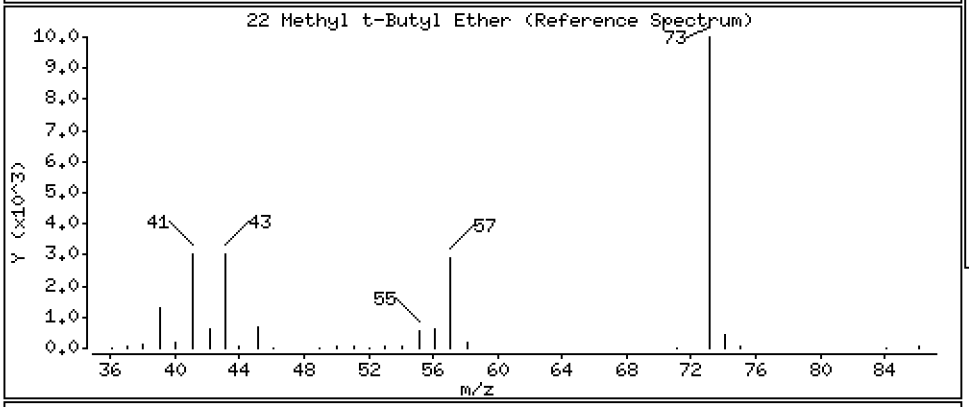
22 Methyl t-Butyl Ether Concentration: 1.04728 ug/L

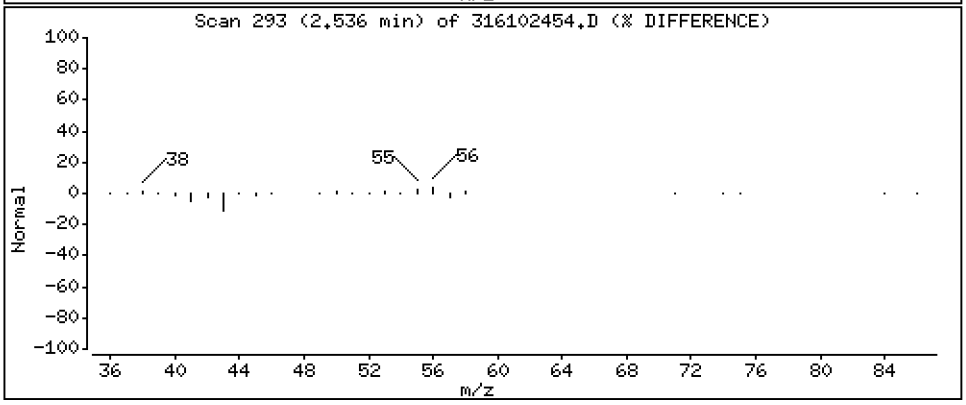












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 31

Date : 24-OCT-2016 23:46

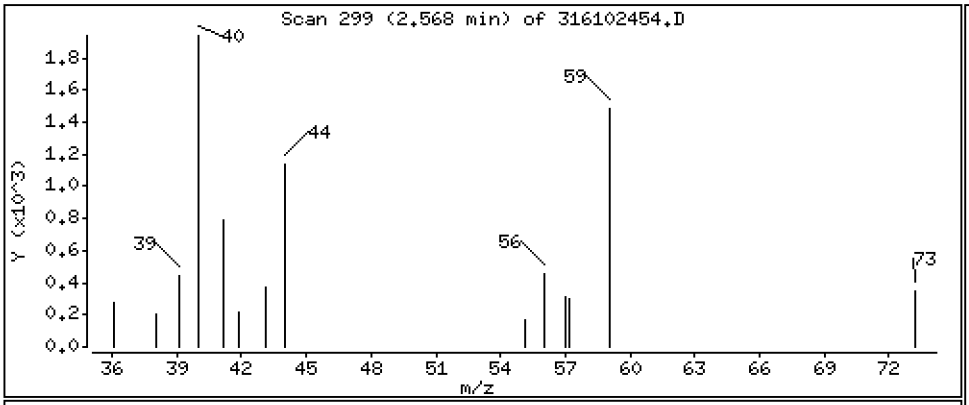
Client ID: Instrument: ms03.i

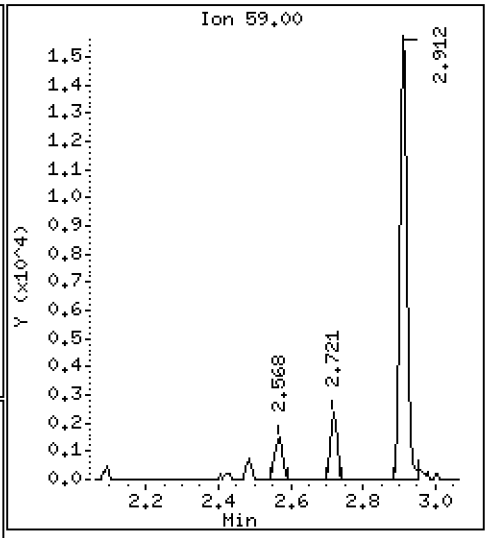
Sample Info: 1234;;1;1;1;;;

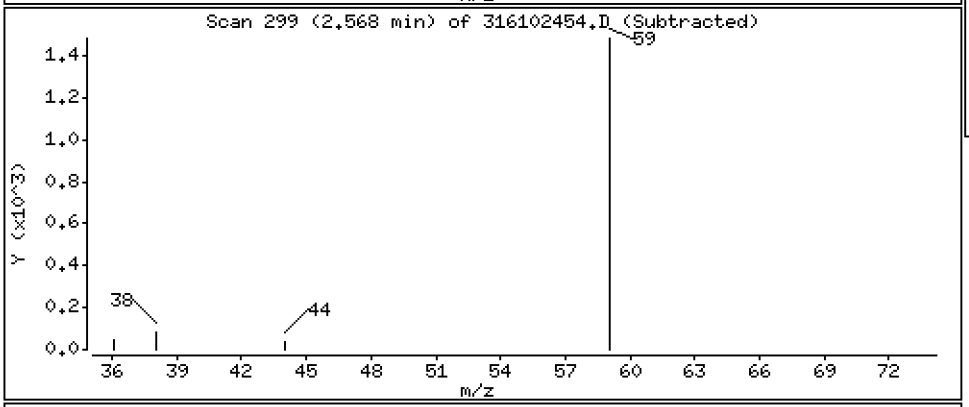
Purge Volume: 5.0 Operator: CJG

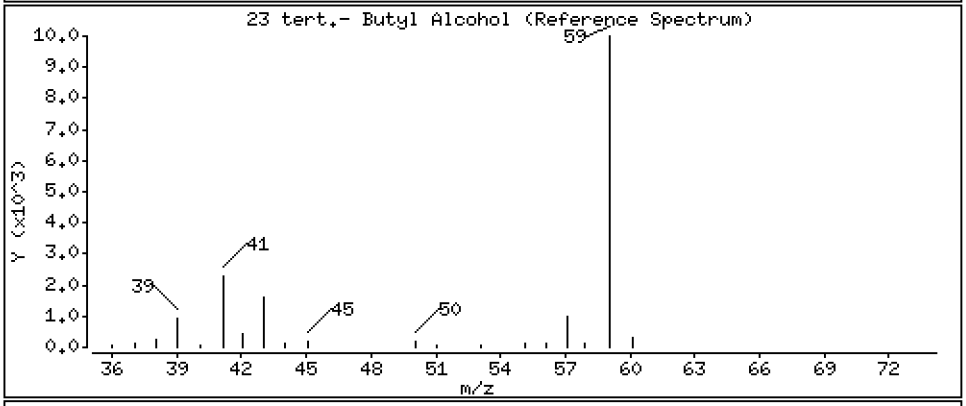
Column phase: DB-VRX Column diameter: 0.25

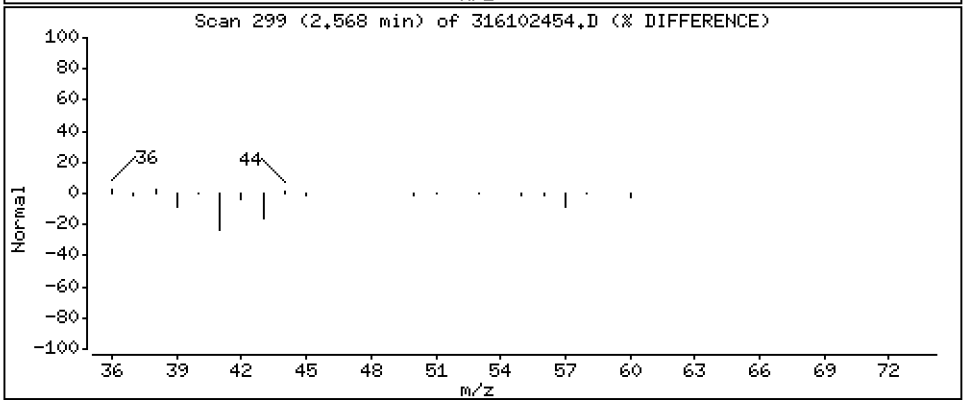
23 tert.- Butyl Alcohol Concentration: 4.66272 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 32

Date : 24-OCT-2016 23:46

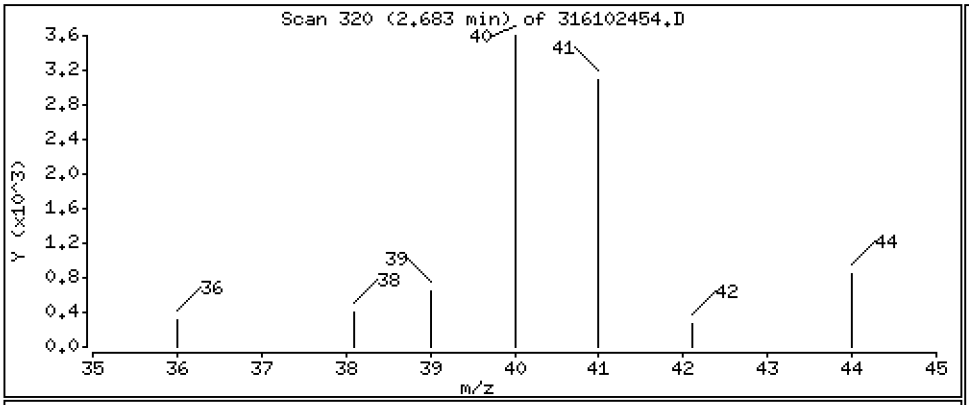
Client ID: Instrument: ms03.i

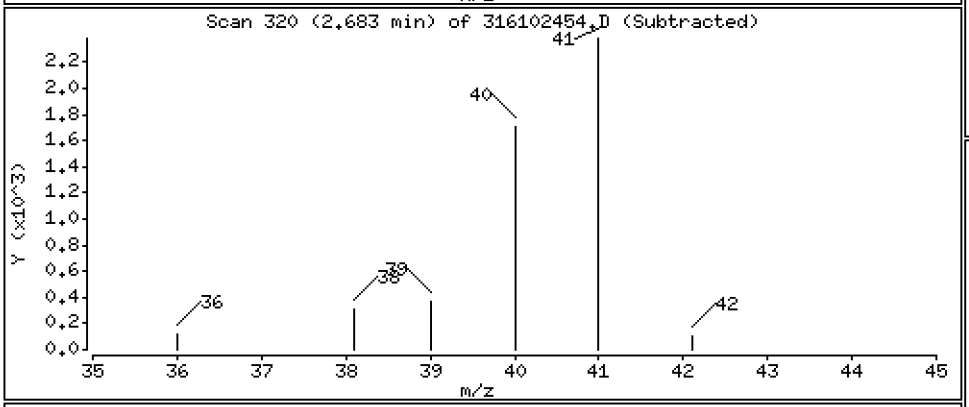
Sample Info: 1234;;1;1;1;;;

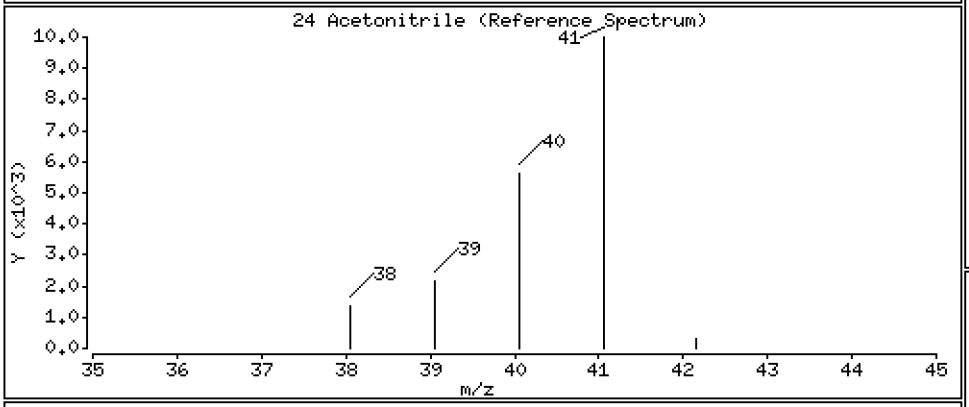
Purge Volume: 5.0 Operator: CJG

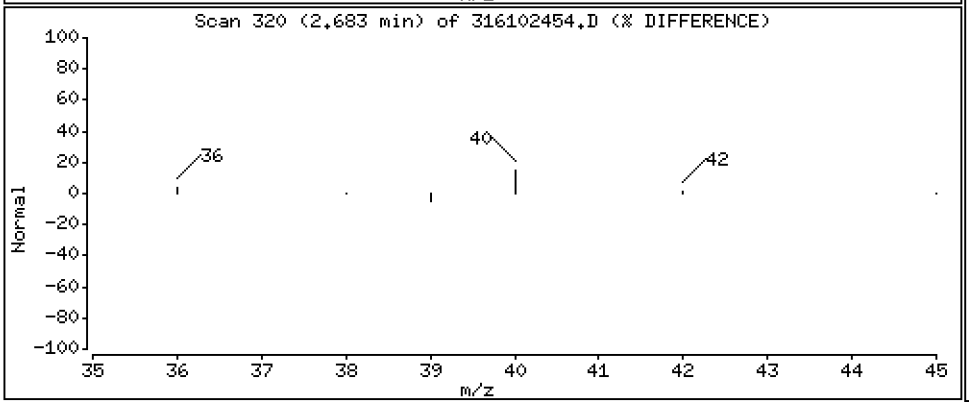
Column phase: DB-VRX Column diameter: 0.25

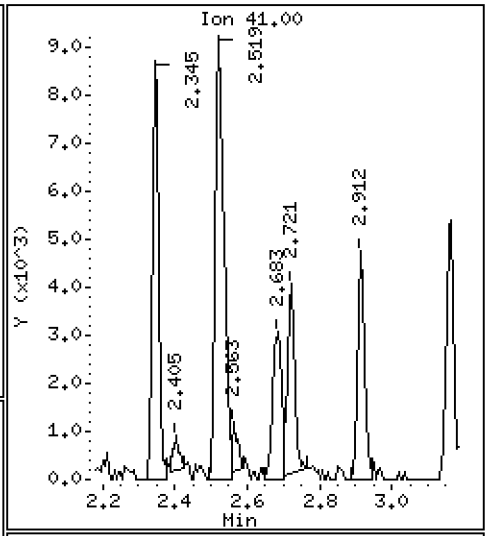
24 Acetonitrile Concentration: 6.32664 ug/L

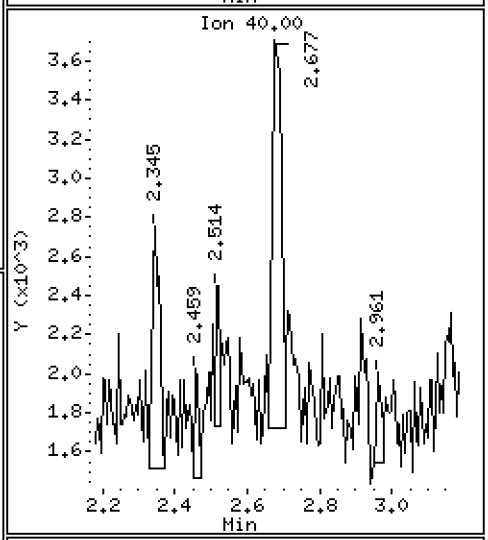


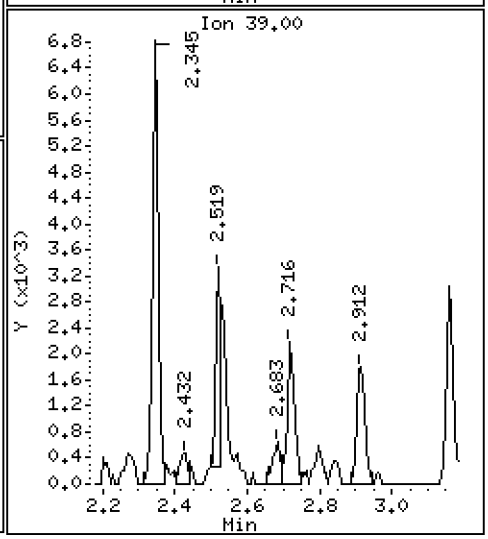












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 33

Date : 24-OCT-2016 23:46

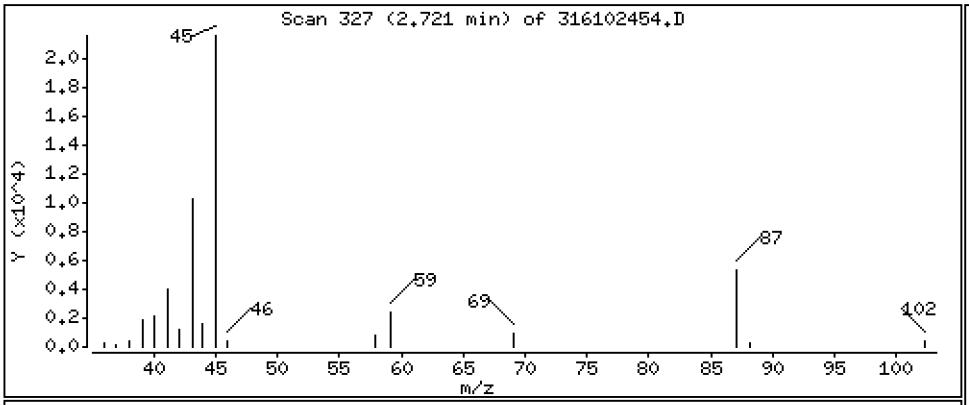
Client ID: Instrument: ms03.i

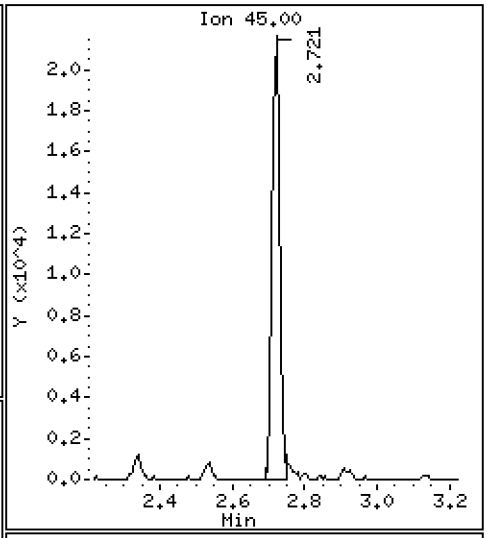
Sample Info: 1234;;1;1;1;;;

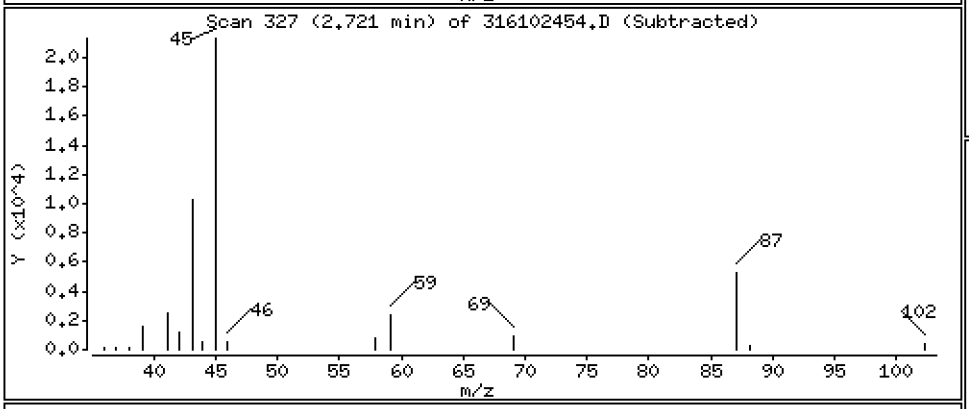
Purge Volume: 5.0 Operator: CJG

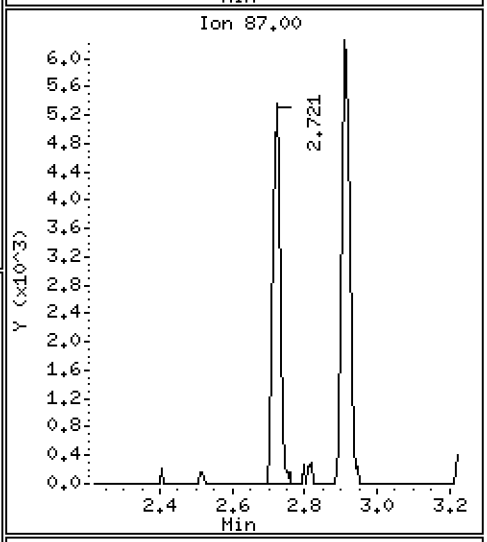
Column phase: DB-VRX Column diameter: 0.25

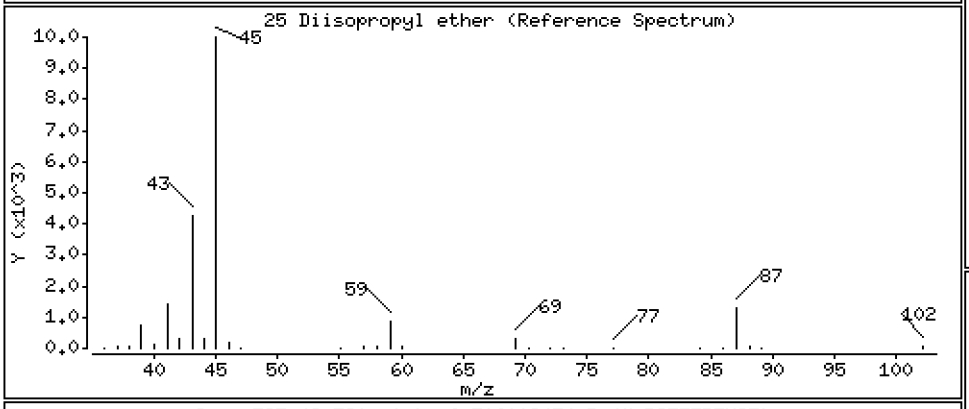
25 Diisopropyl ether Concentration: 0.958541 ug/L

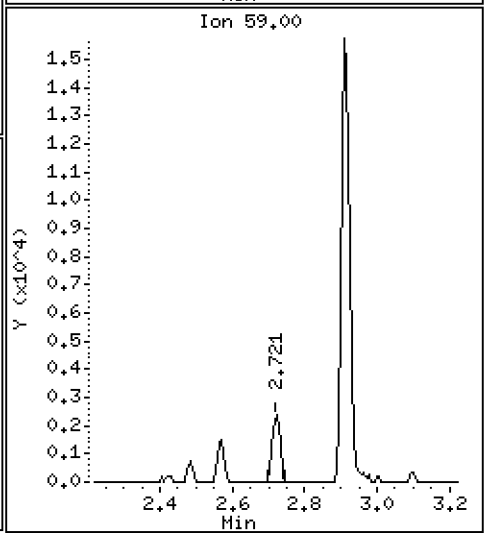


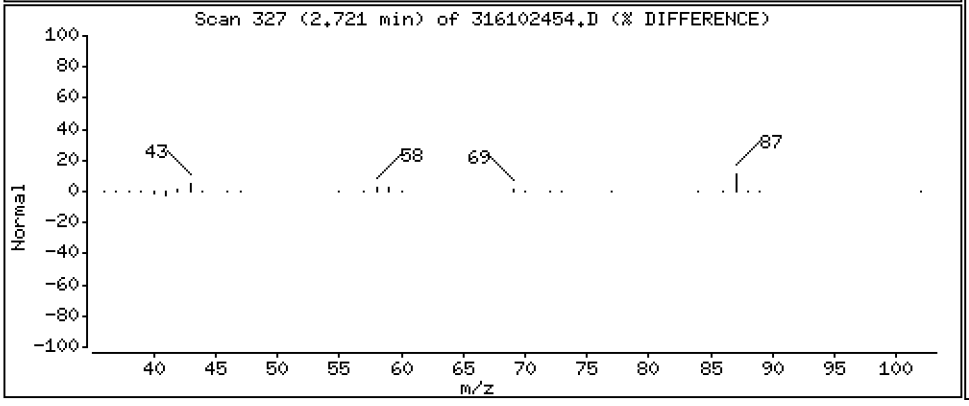












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 34

Date : 24-OCT-2016 23:46

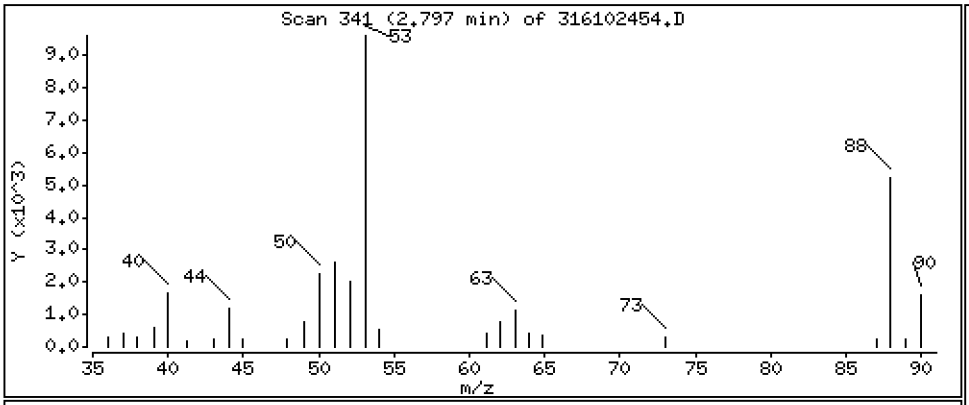
Client ID: Instrument: ms03.i

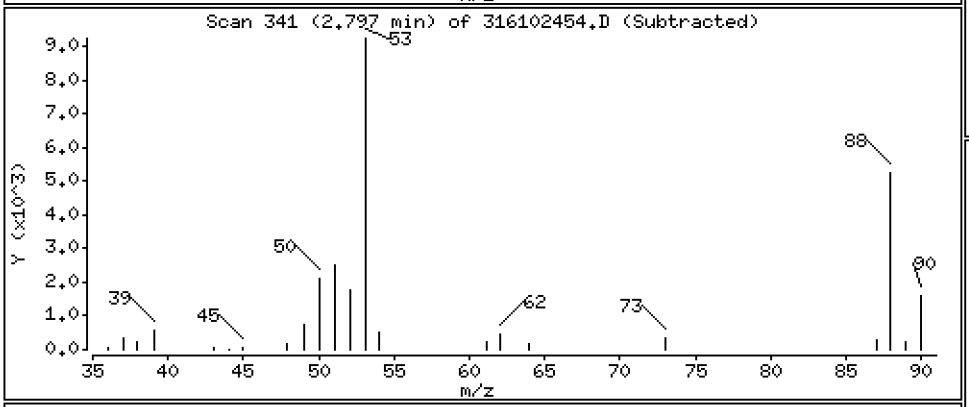
Sample Info: 1234;;1;1;1;;;

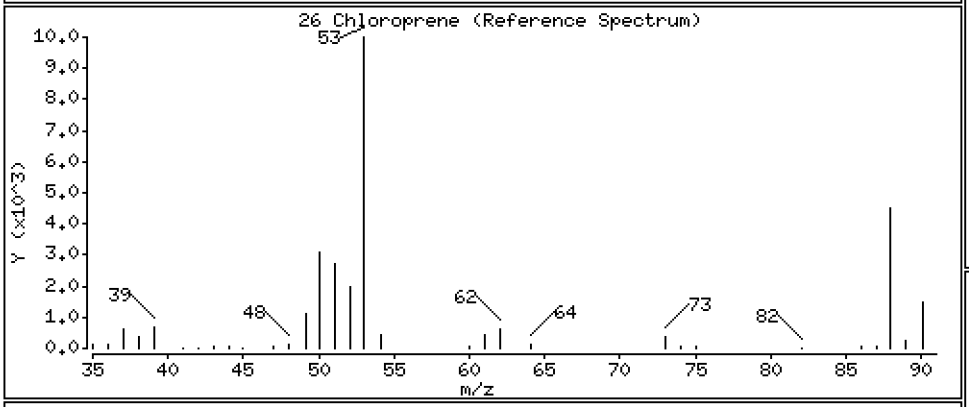
Purge Volume: 5.0 Operator: CJG

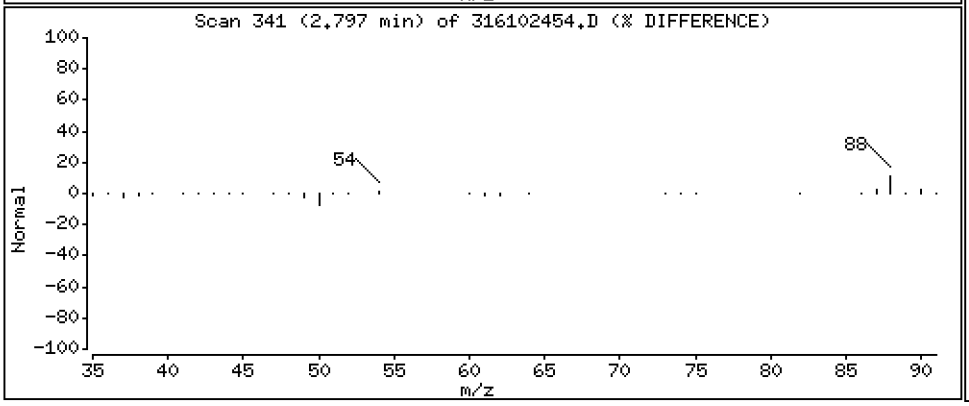
Column phase: DB-VRX Column diameter: 0.25

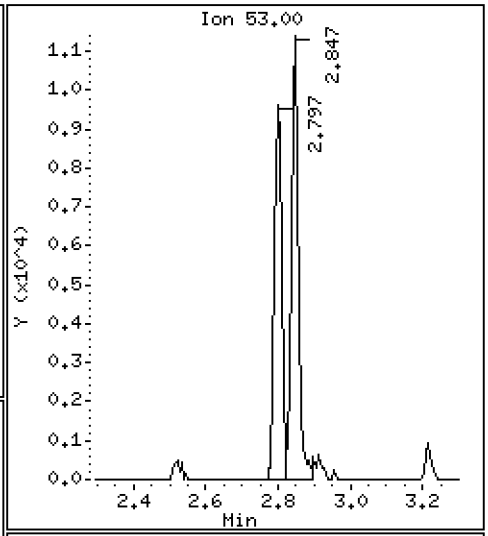
26 Chloroprene Concentration: 1.03710 ug/L

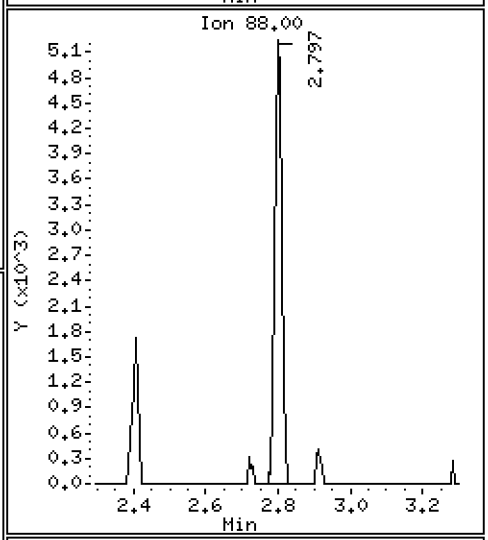


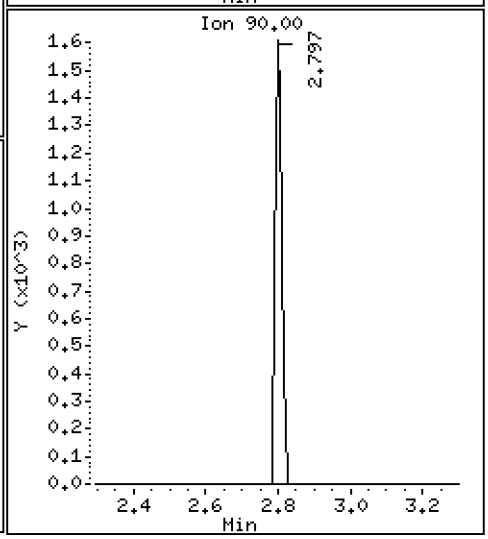












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 35

Date : 24-OCT-2016 23:46

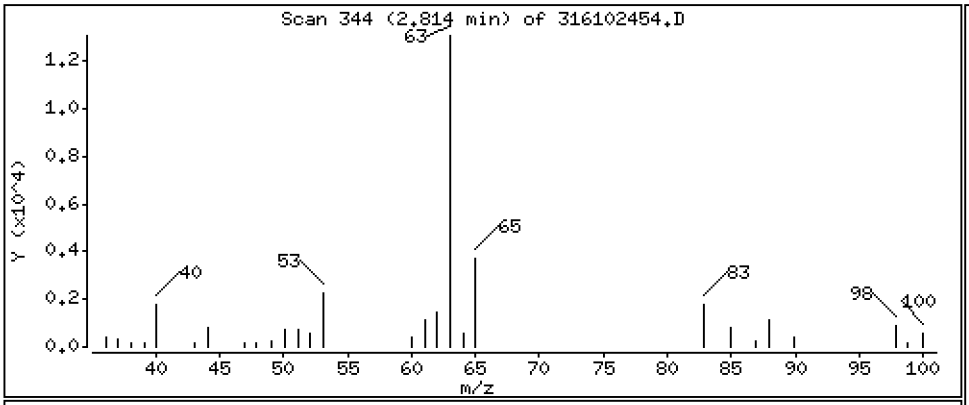
Client ID: Instrument: ms03.i

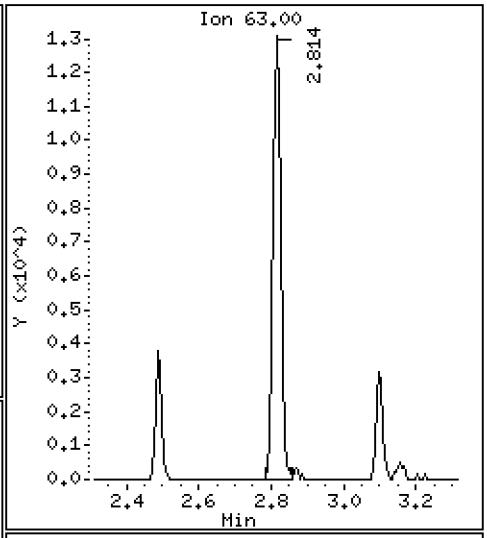
Sample Info: 1234;;1;1;1;;;

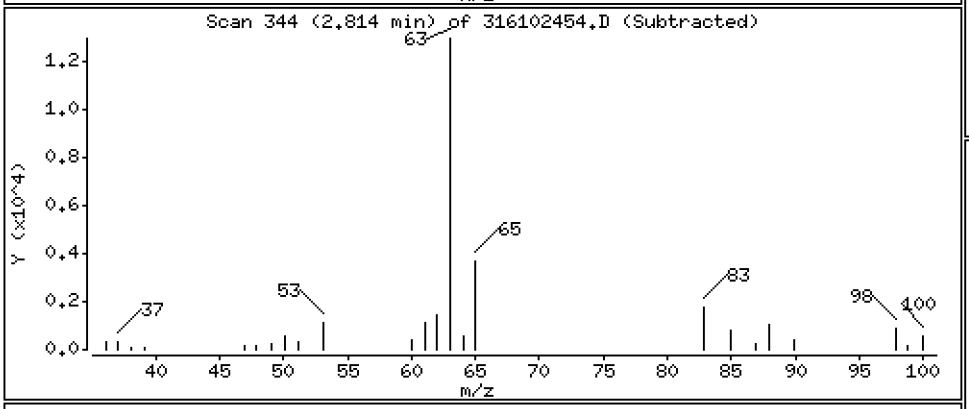
Purge Volume: 5.0 Operator: CJG

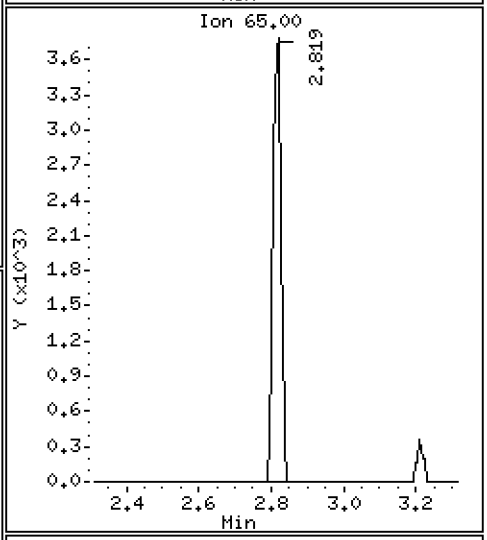
Column phase: DB-VRX Column diameter: 0.25

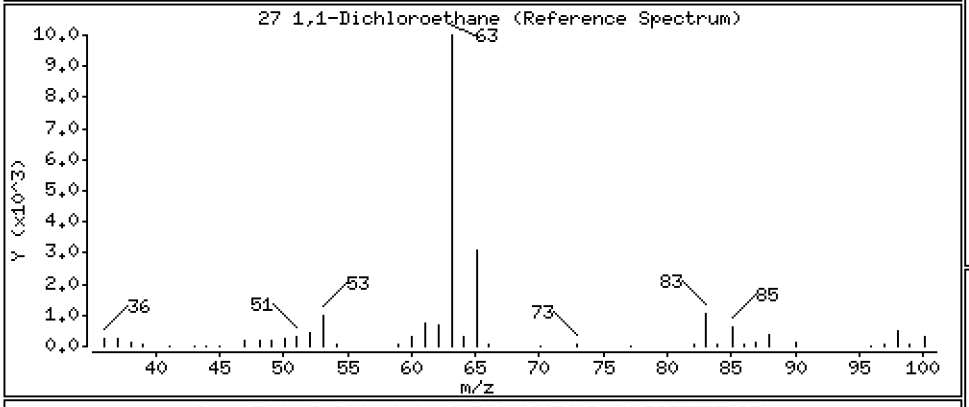
27 1,1-Dichloroethane Concentration: 1.16489 ug/L

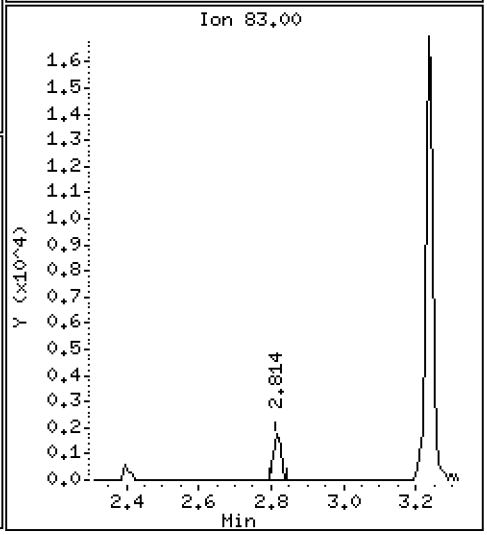


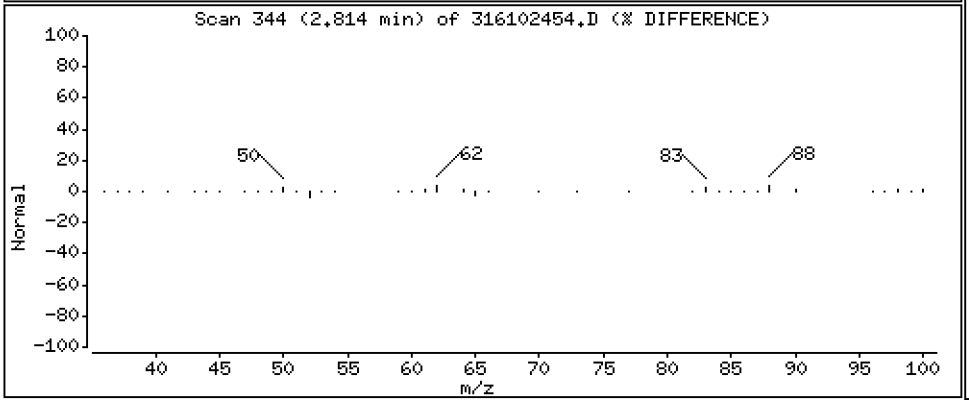












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 36

Date : 24-OCT-2016 23:46

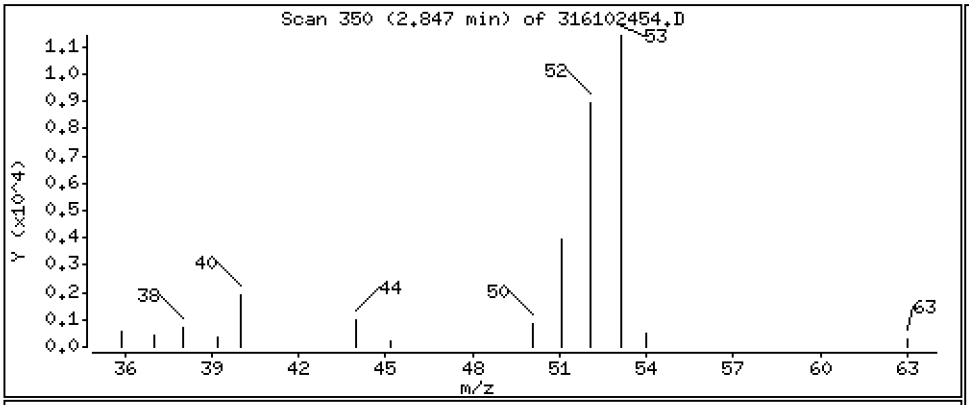
Client ID: Instrument: ms03.i

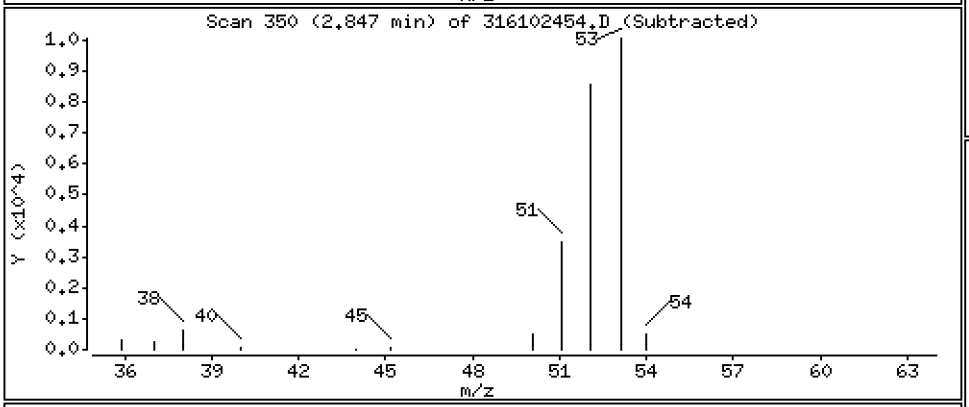
Sample Info: 1234;;1;1;1;;;

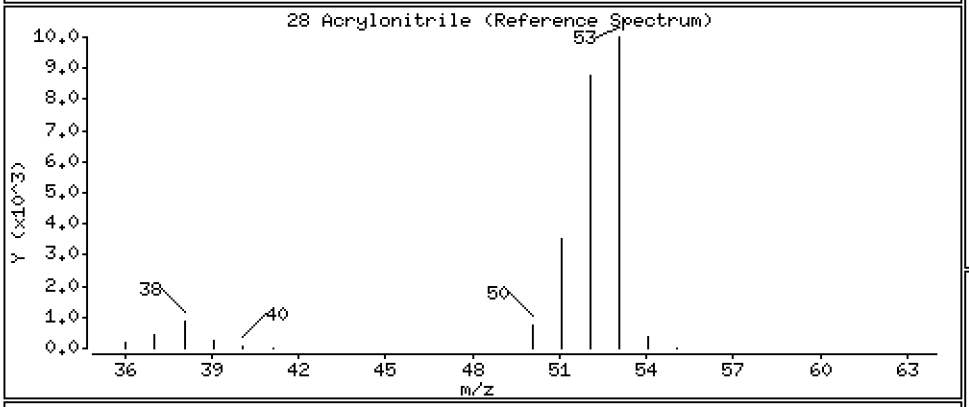
Purge Volume: 5.0 Operator: CJG

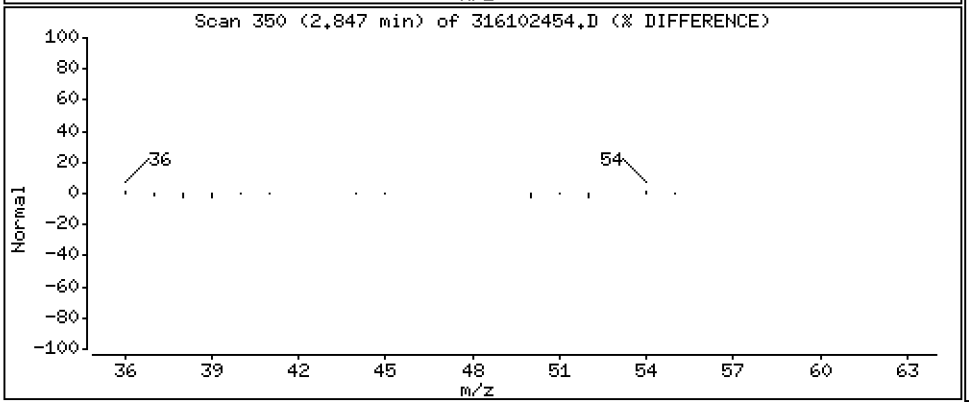
Column phase: DB-VRX Column diameter: 0.25

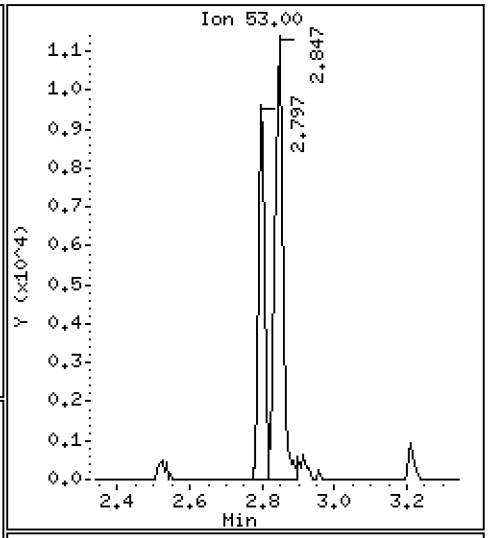
28 Acrylonitrile Concentration: 5.66367 ug/L

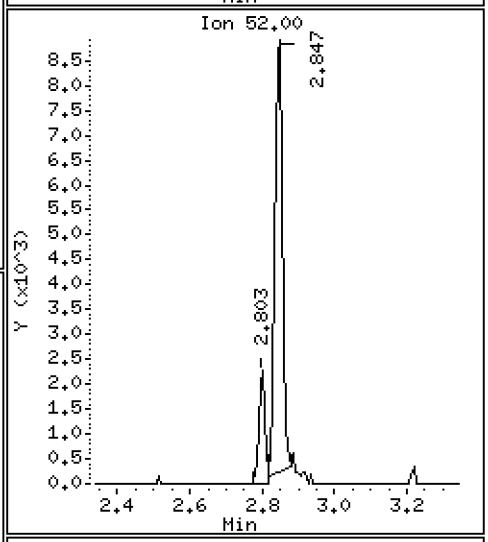


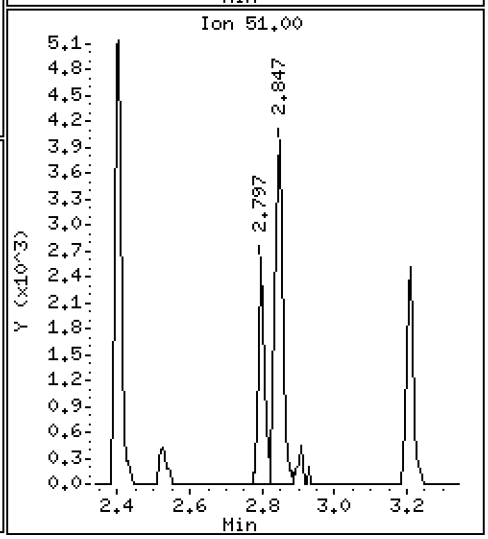












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 37

Date : 24-OCT-2016 23:46

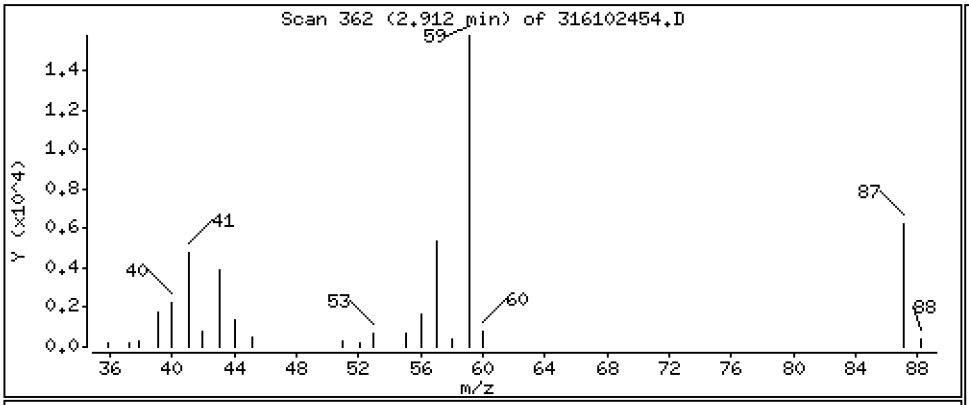
Client ID: Instrument: ms03.i

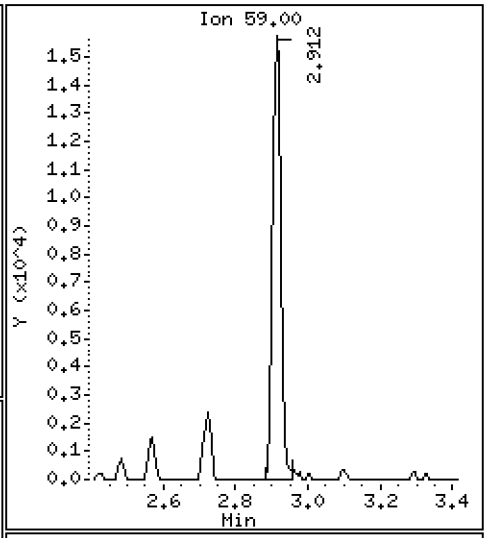
Sample Info: 1234;;1;1;1;;;

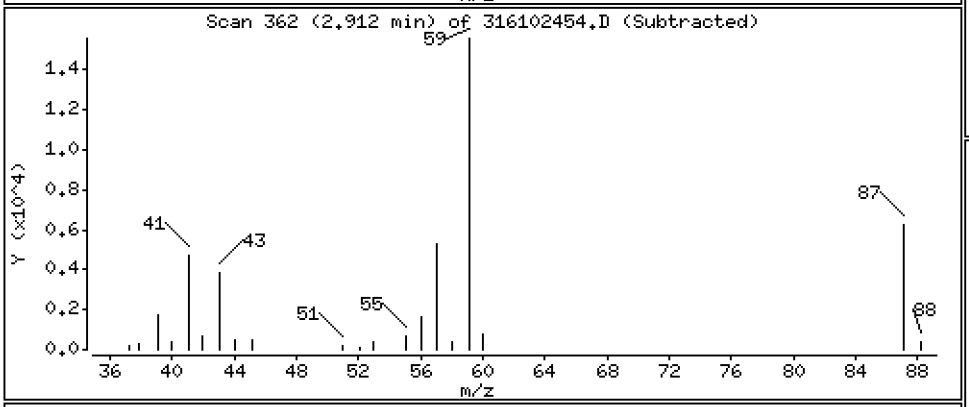
Purge Volume: 5.0 Operator: CJG

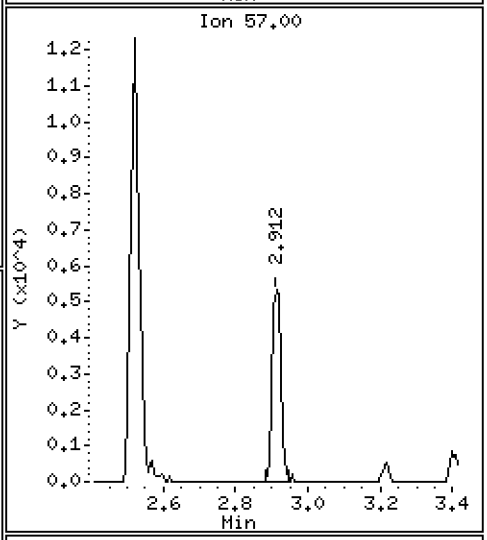
Column phase: DB-VRX Column diameter: 0.25

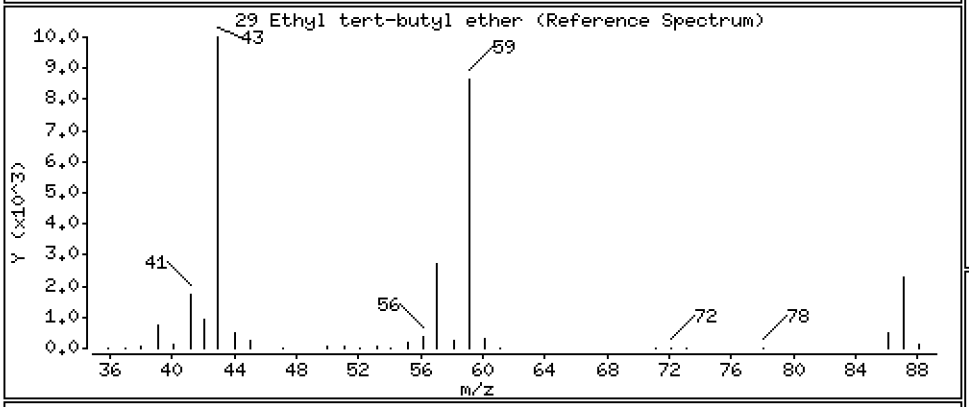
29 Ethyl tert-butyl ether Concentration: 0.917357 ug/L

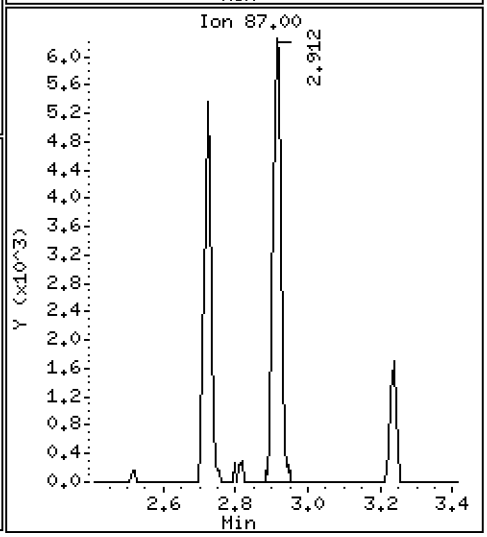


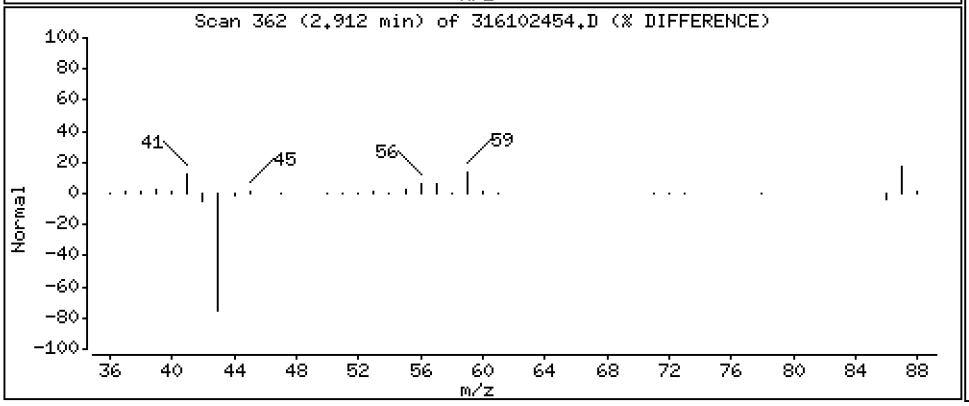












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 38

Date : 24-OCT-2016 23:46

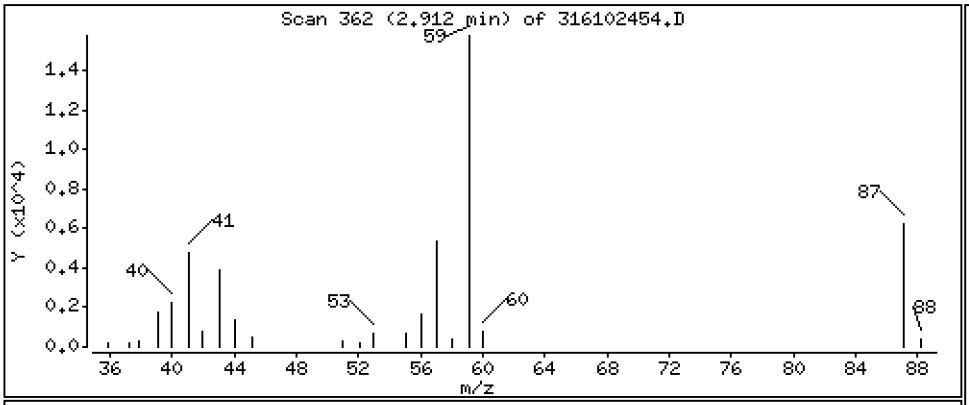
Client ID: Instrument: ms03.i

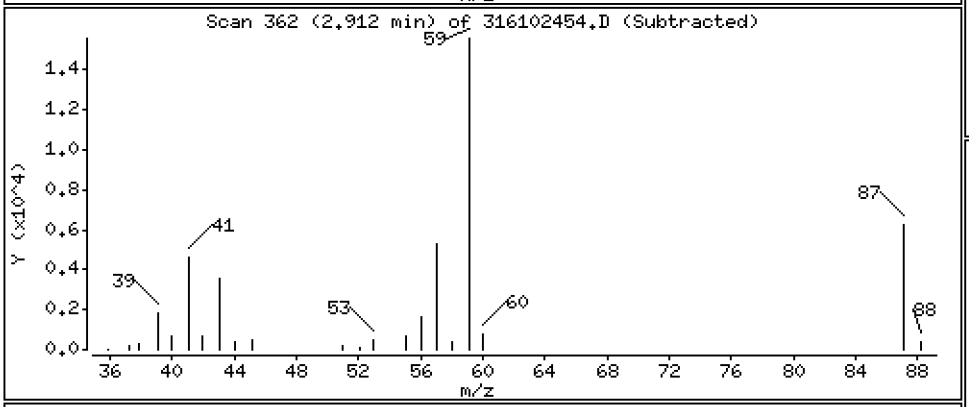
Sample Info: 1234;;1;1;1;;;

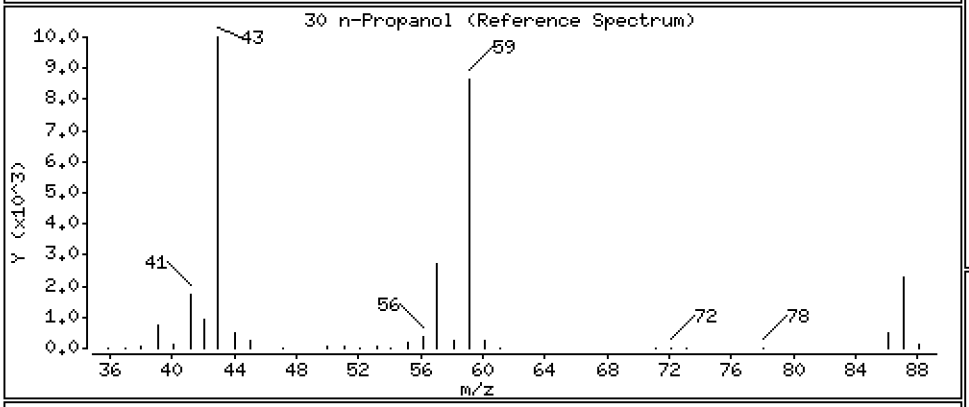
Purge Volume: 5.0 Operator: CJG

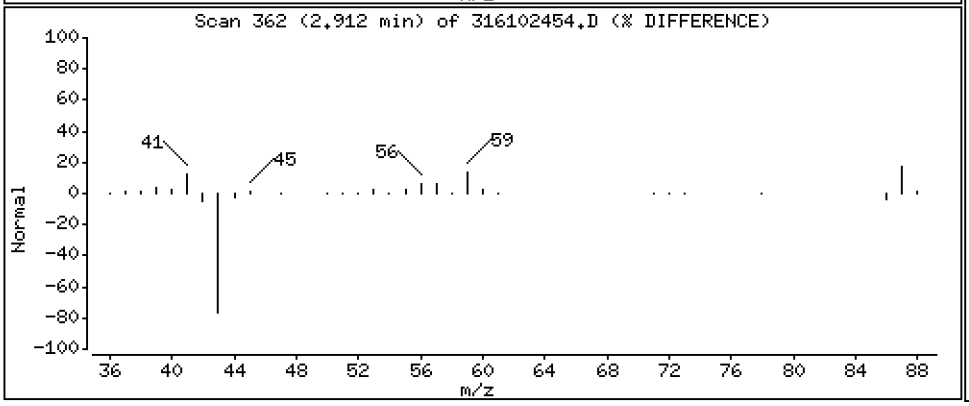
Column phase: DB-VRX Column diameter: 0.25

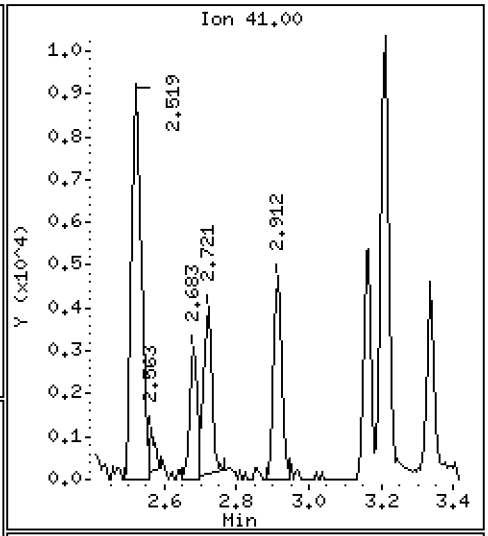
30 n-Propanol Concentration: 12.1090 ug/L

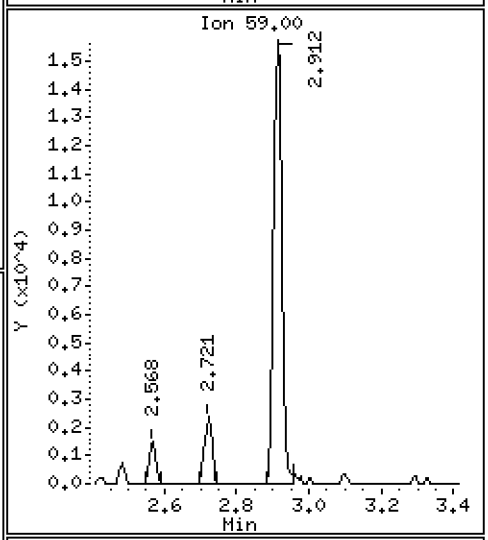


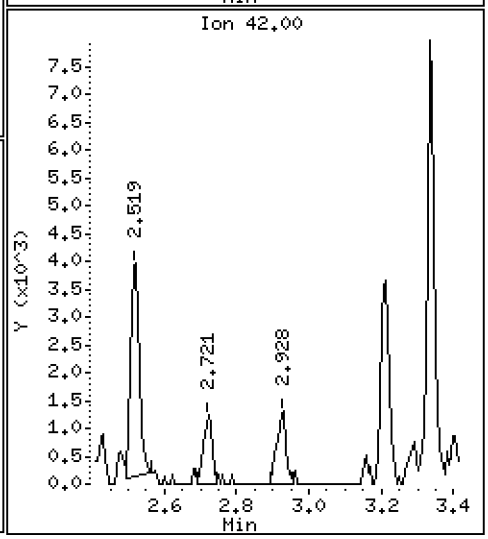












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 39

Date : 24-OCT-2016 23:46

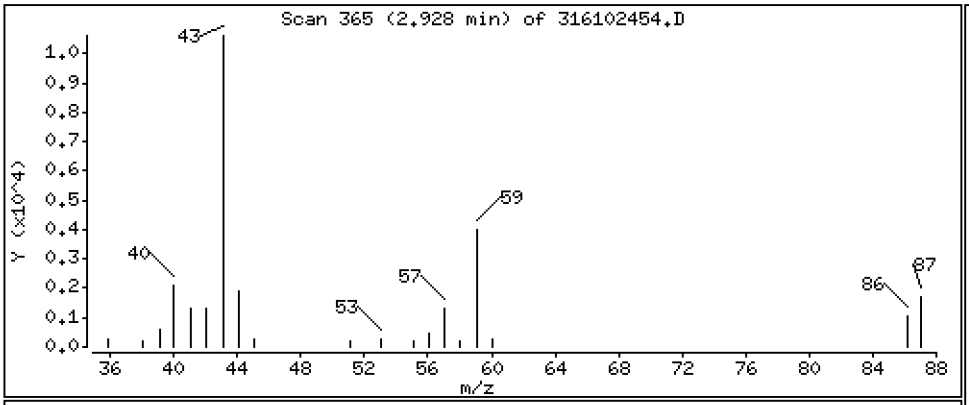
Client ID: Instrument: ms03.i

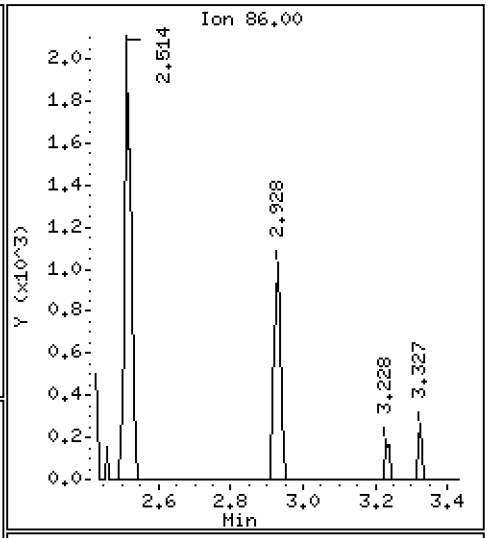
Sample Info: 1234;;1;1;1;;;

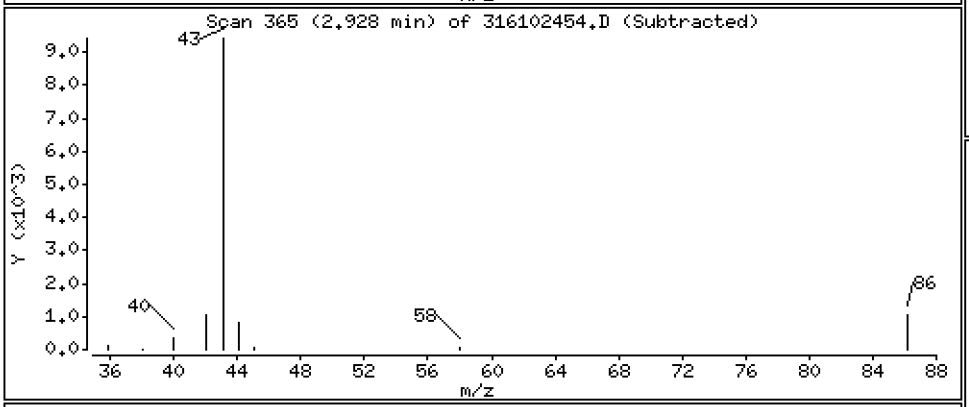
Purge Volume: 5.0 Operator: CJG

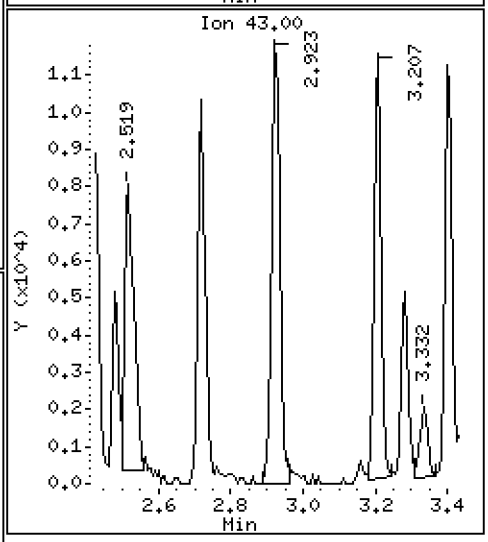
Column phase: DB-VRX Column diameter: 0.25

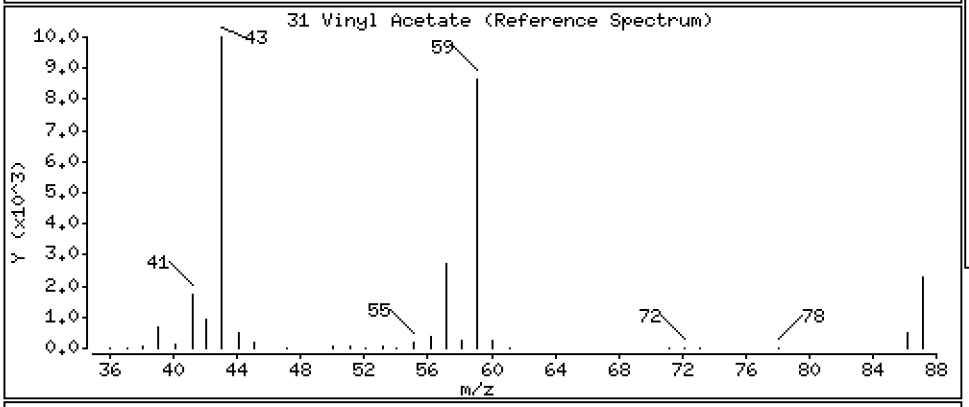
31 Vinyl Acetate Concentration: 0.670580 ug/L

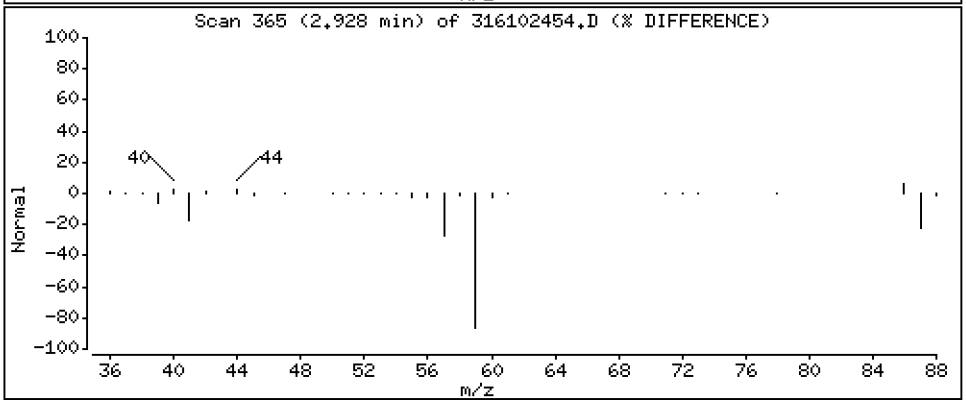












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 40

Date : 24-OCT-2016 23:46

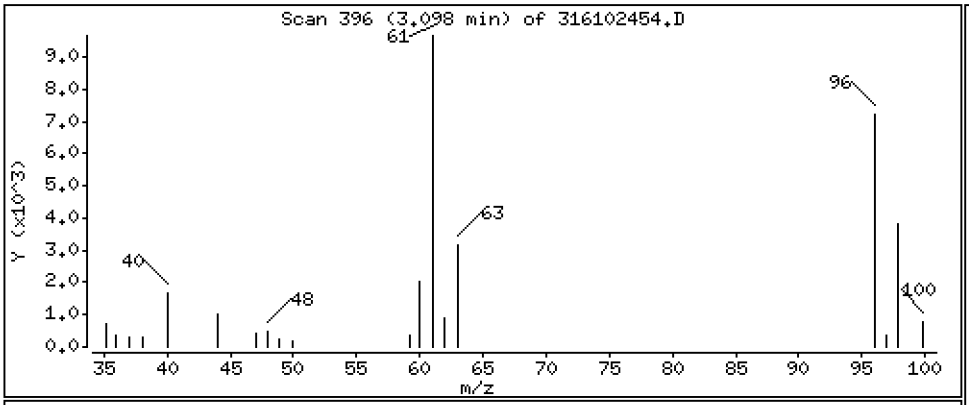
Client ID: Instrument: ms03.i

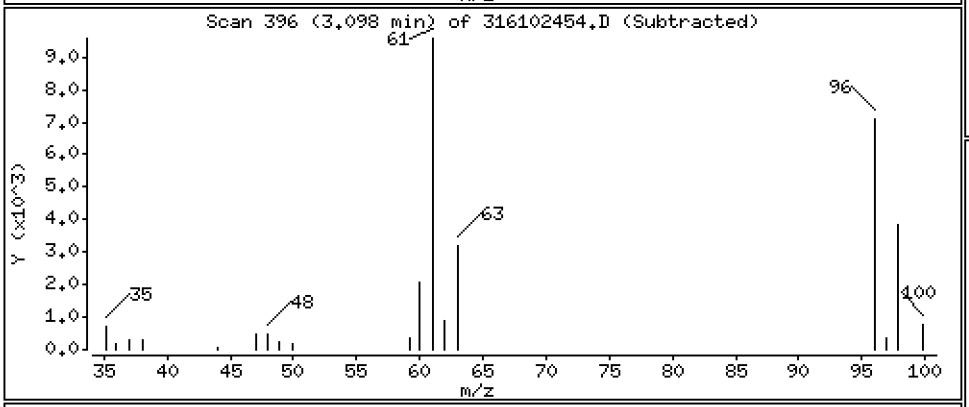
Sample Info: 1234;;1;1;1;;;

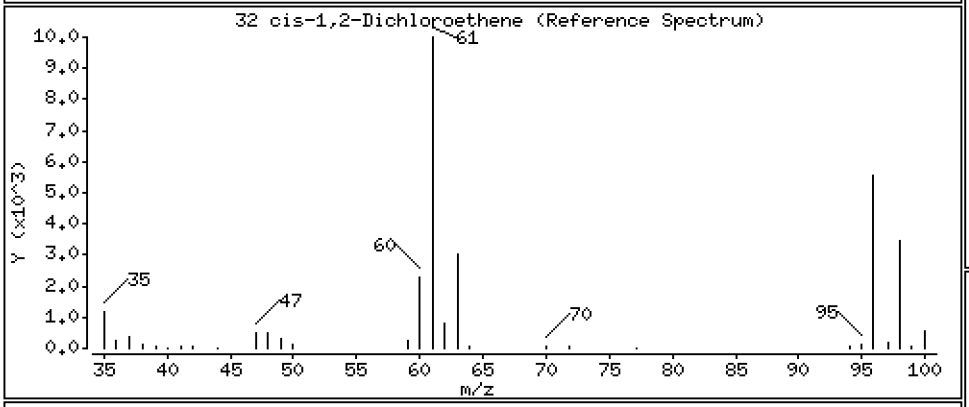
Purge Volume: 5.0 Operator: CJG

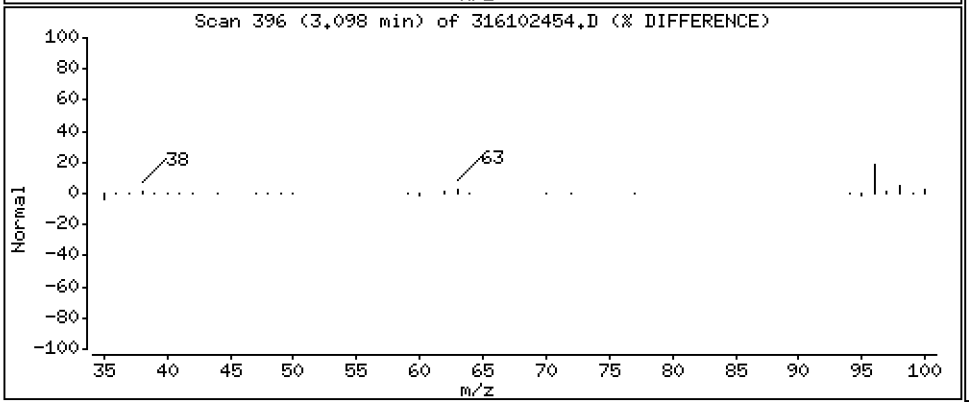
Column phase: DB-VRX Column diameter: 0.25

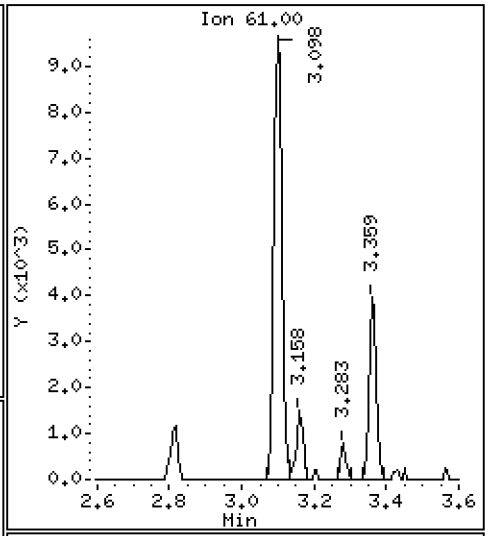
32 cis-1,2-Dichloroethene Concentration: 1.13768 ug/L

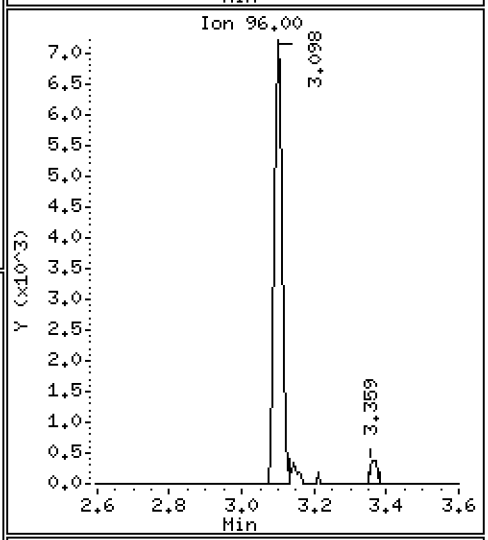


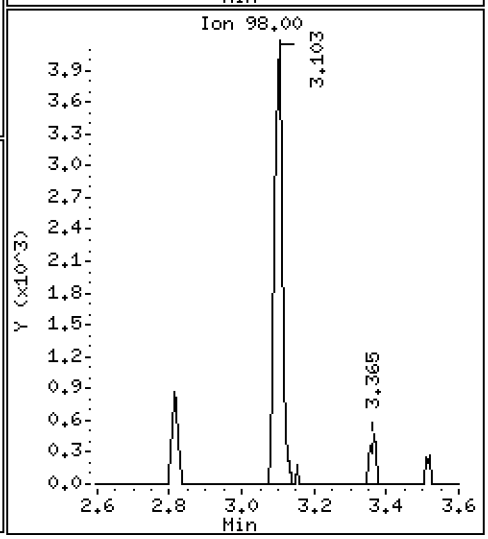












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 41

Date : 24-OCT-2016 23:46

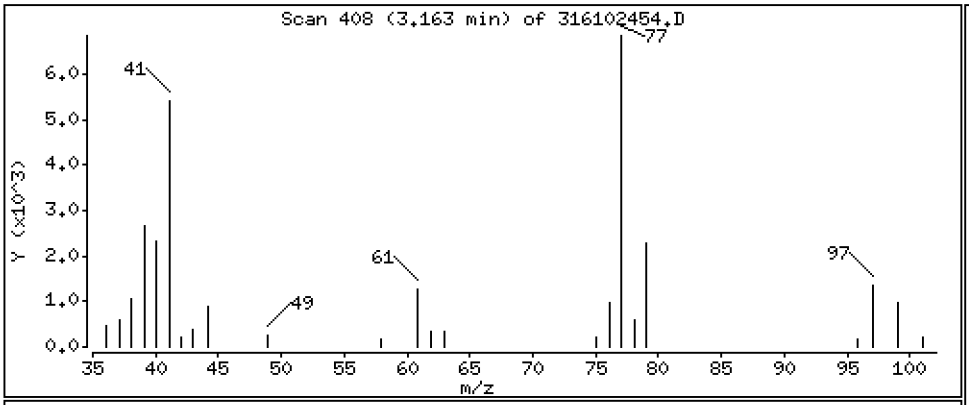
Client ID: Instrument: ms03.i

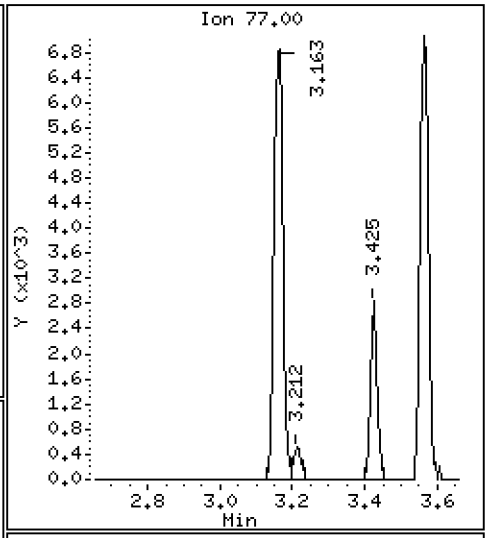
Sample Info: 1234;;1;1;1;;;

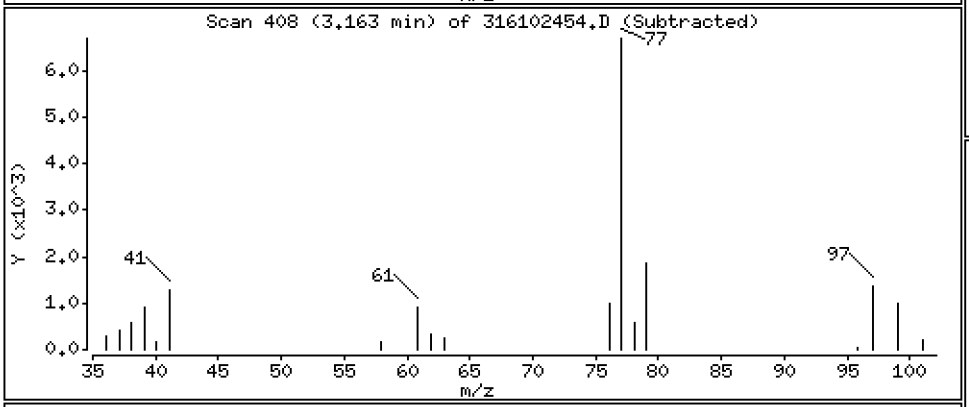
Purge Volume: 5.0 Operator: CJG

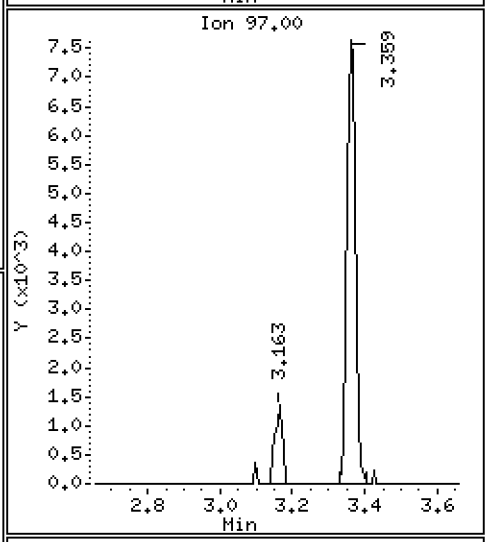
Column phase: DB-VRX Column diameter: 0.25

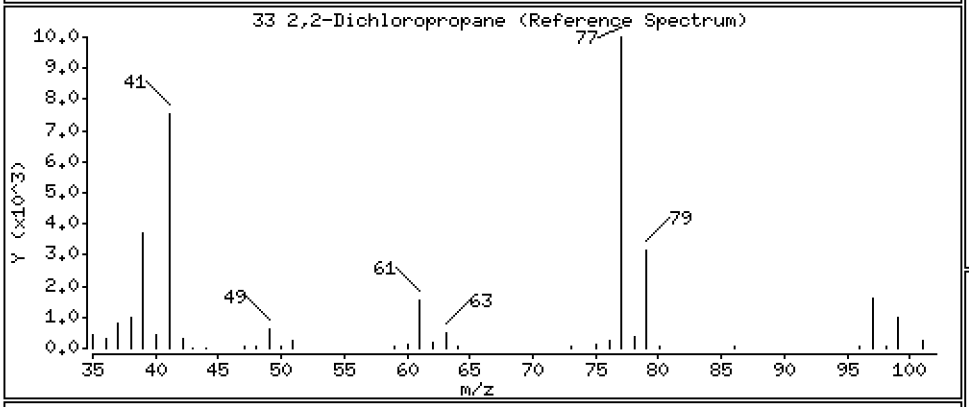
33 2,2-Dichloropropane Concentration: 1.10813 ug/L

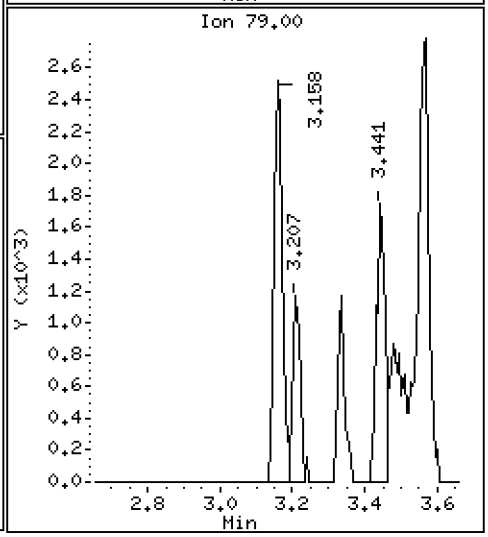


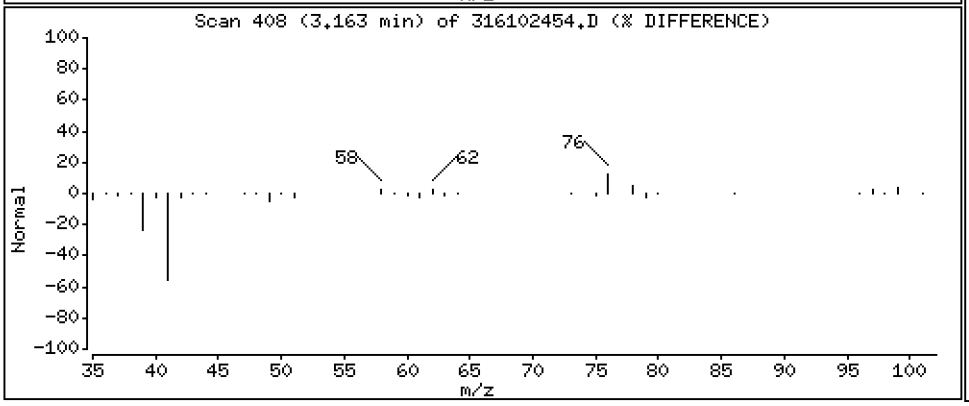












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 42

Date : 24-OCT-2016 23:46

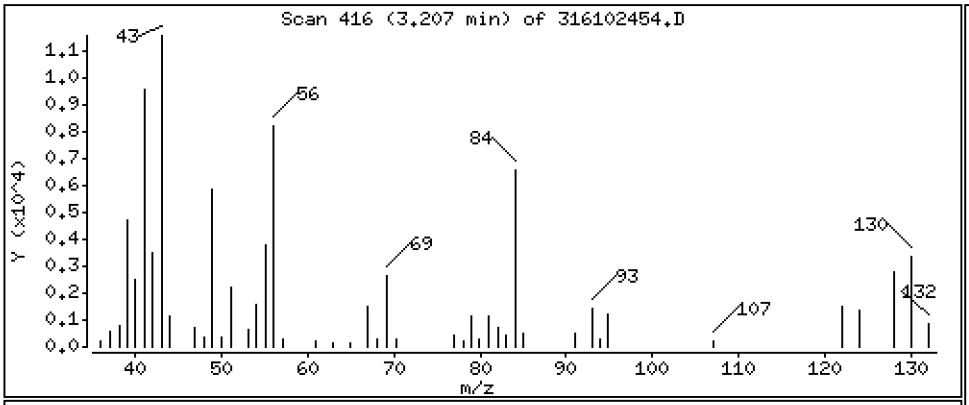
Client ID: Instrument: ms03.i

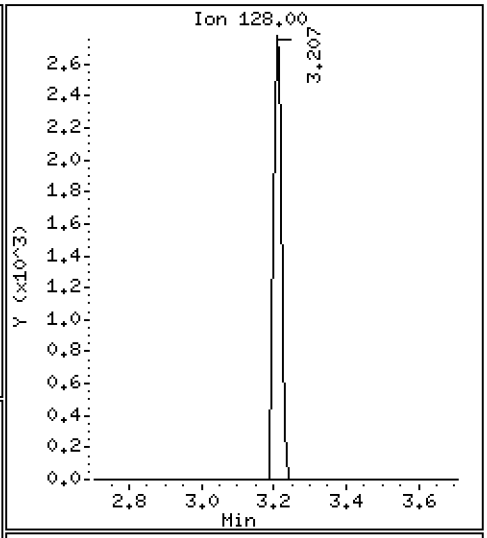
Sample Info: 1234;;1;1;1;;;

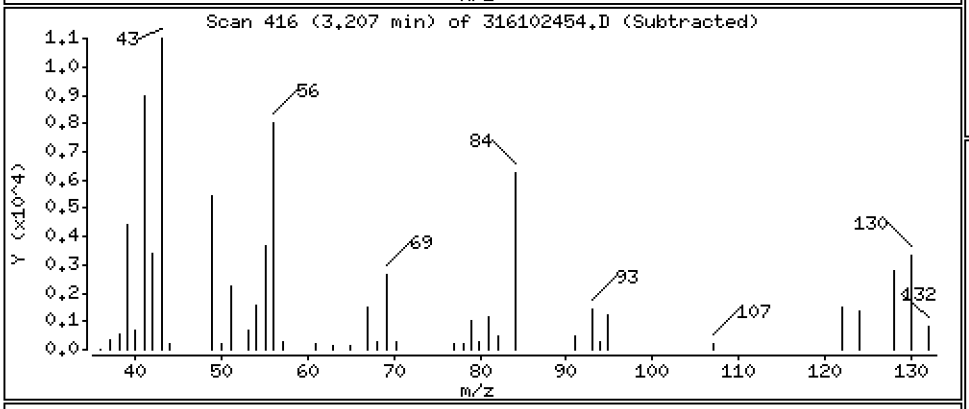
Purge Volume: 5.0 Operator: CJG

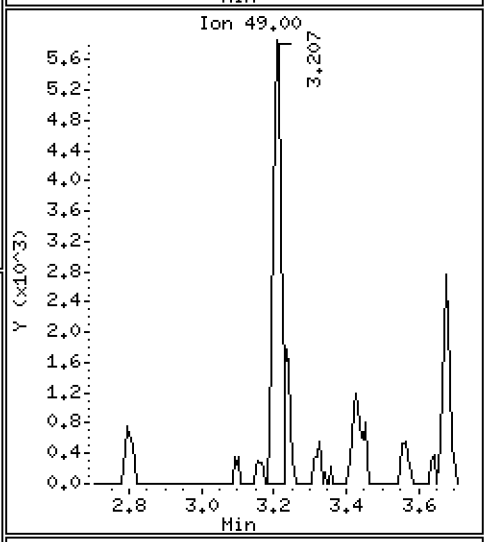
Column phase: DB-VRX Column diameter: 0.25

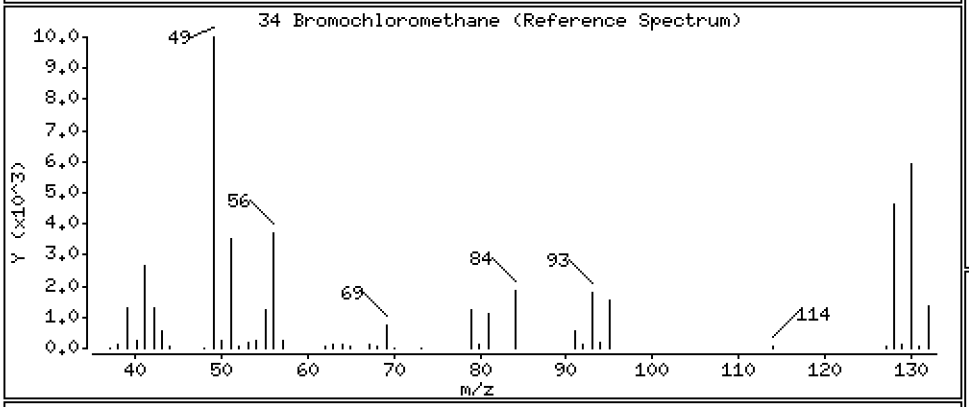
34 Bromochloromethane Concentration: 1.09318 ug/L

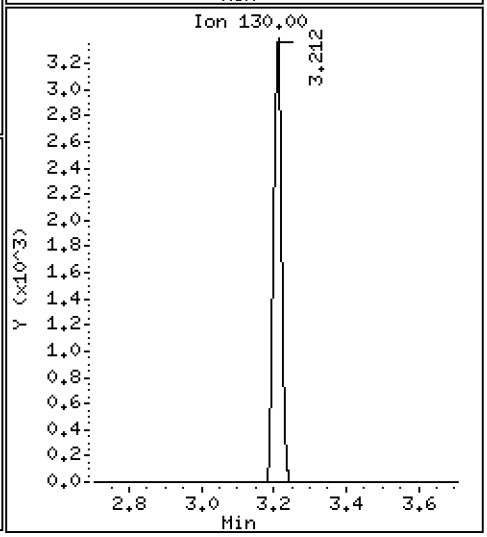


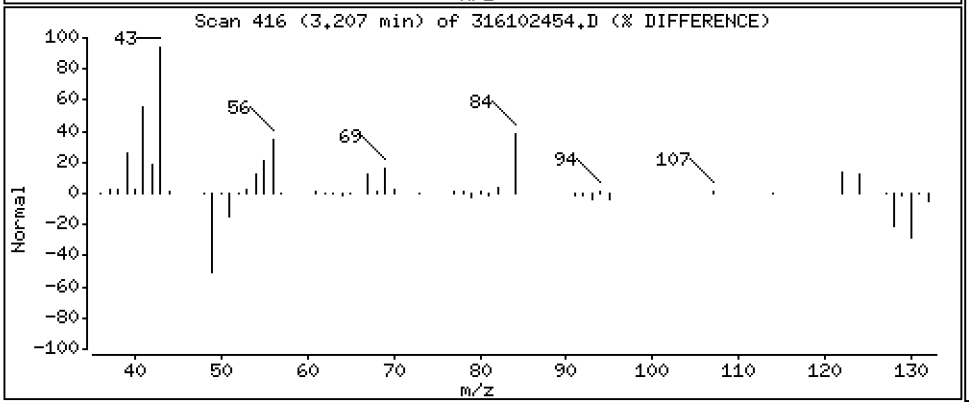












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 43

Date : 24-OCT-2016 23:46

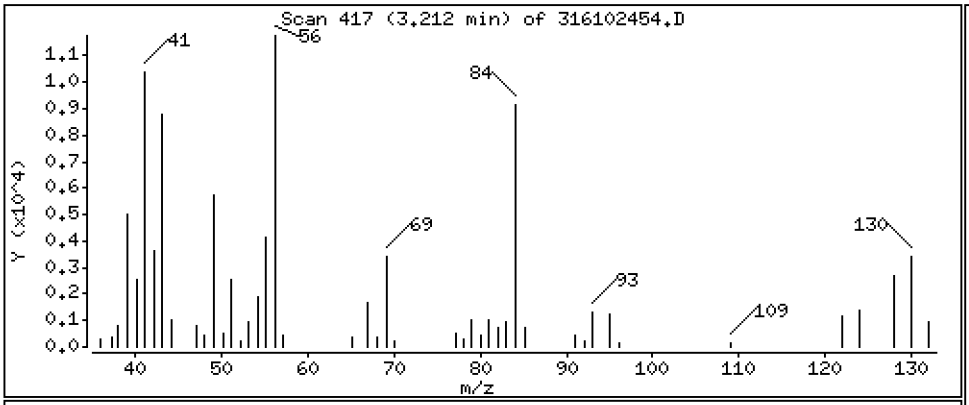
Client ID: Instrument: ms03.i

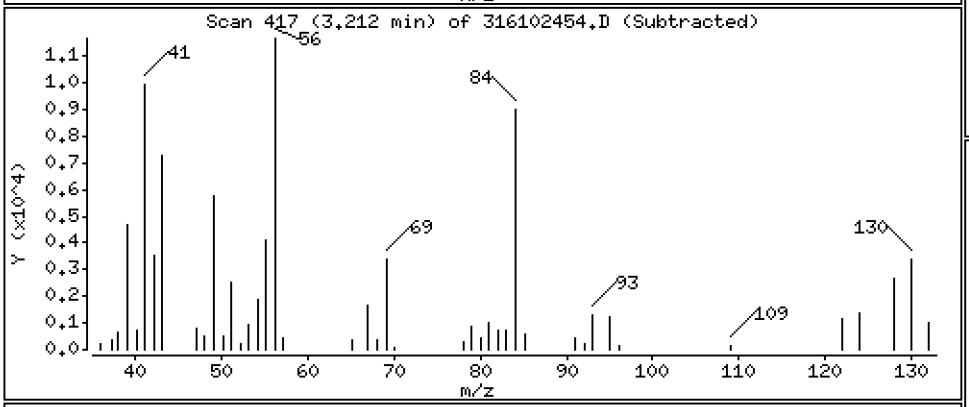
Sample Info: 1234;;1;1;1;;;

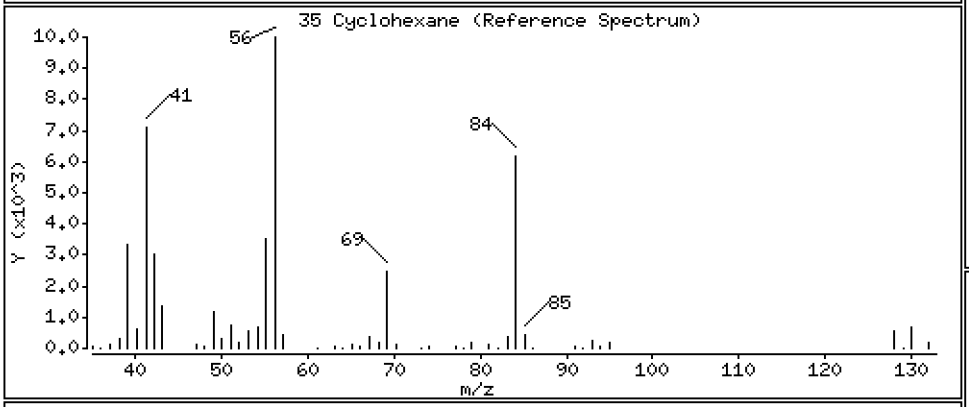
Purge Volume: 5.0 Operator: CJG

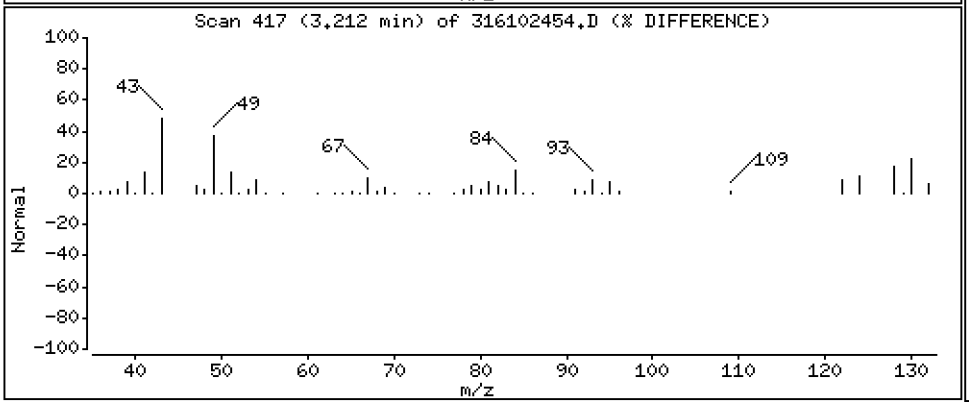
Column phase: DB-VRX Column diameter: 0.25

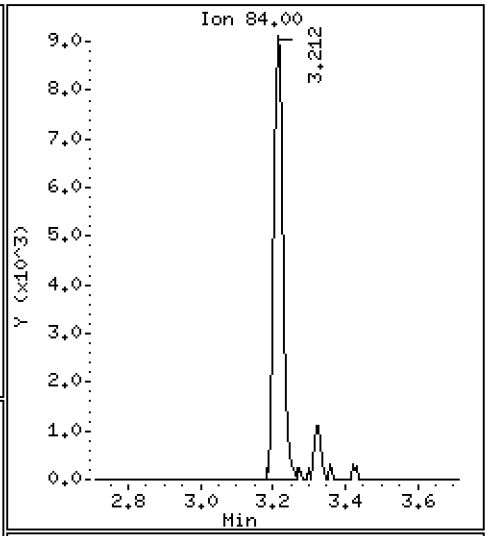
35 Cyclohexane Concentration: 1.29498 ug/L

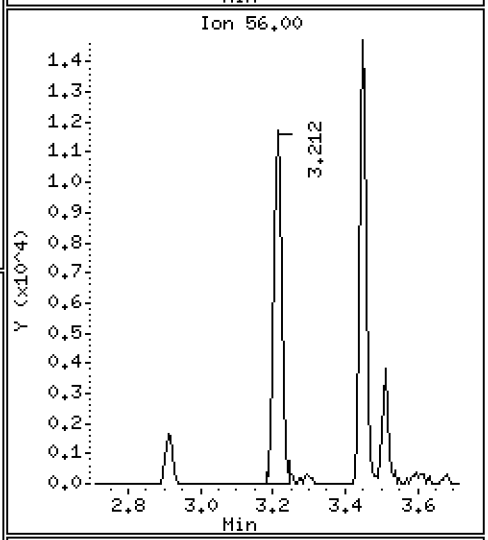


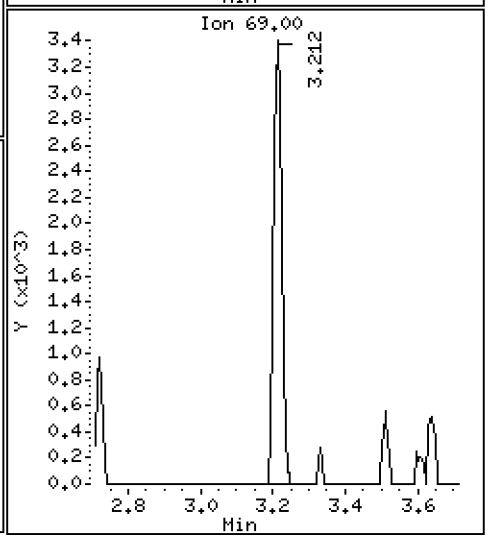












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 44

Date : 24-OCT-2016 23:46

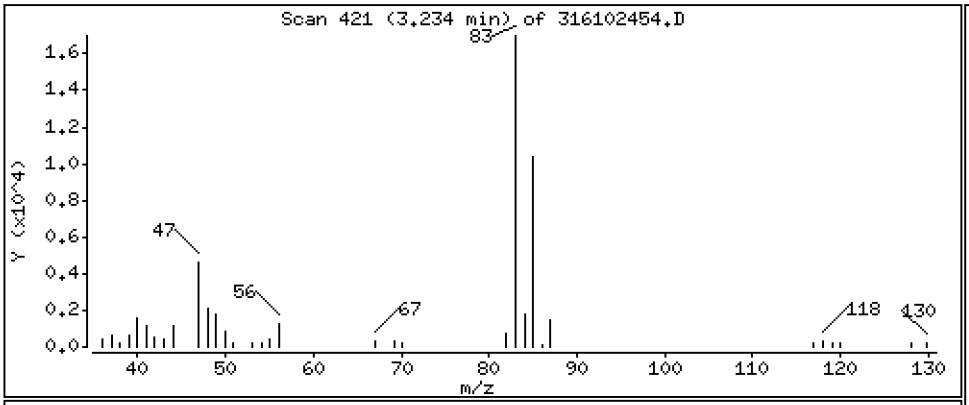
Client ID: Instrument: ms03.i

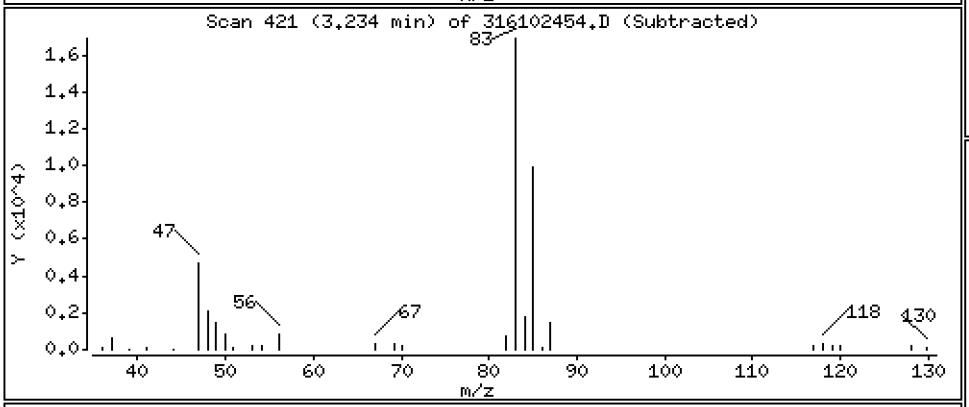
Sample Info: 1234;;1;1;1;;;

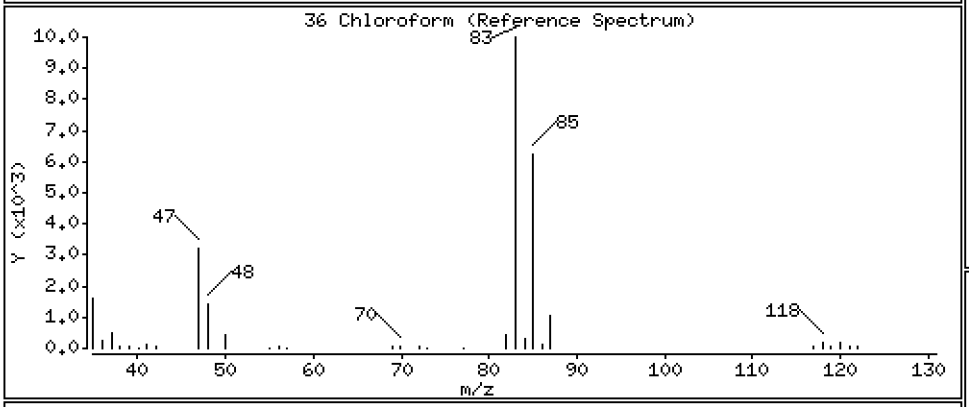
Purge Volume: 5.0 Operator: CJG

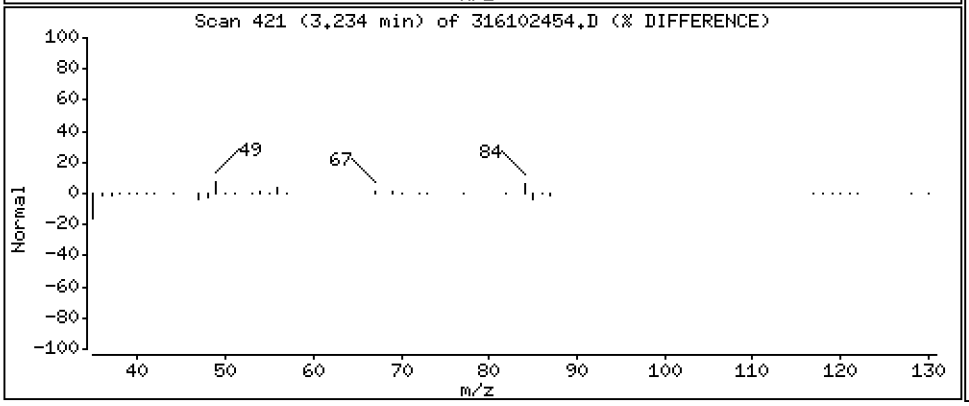
Column phase: DB-VRX Column diameter: 0.25

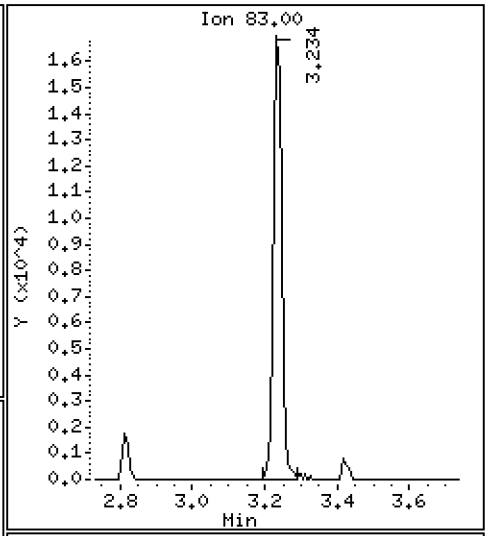
36 Chloroform Concentration: 1.63130 ug/L

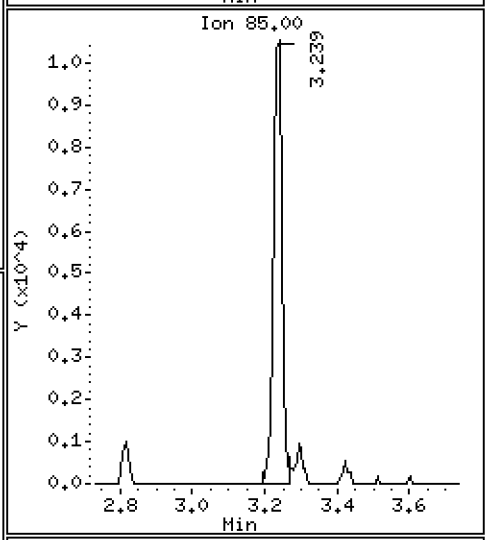


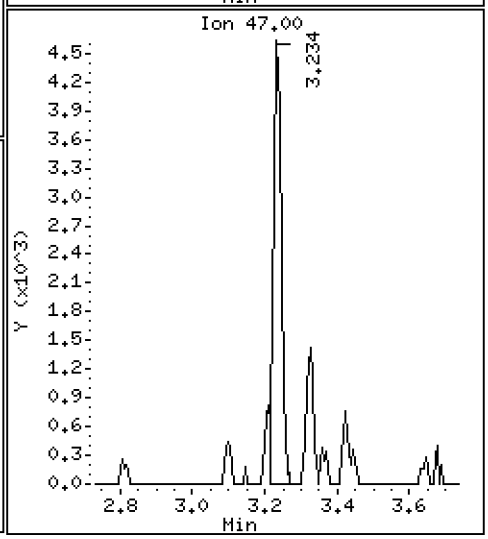












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 45

Date : 24-OCT-2016 23:46

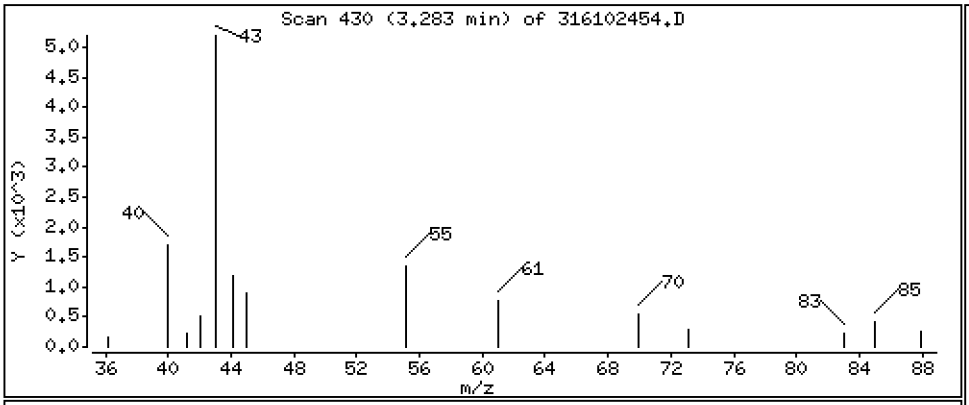
Client ID: Instrument: ms03.i

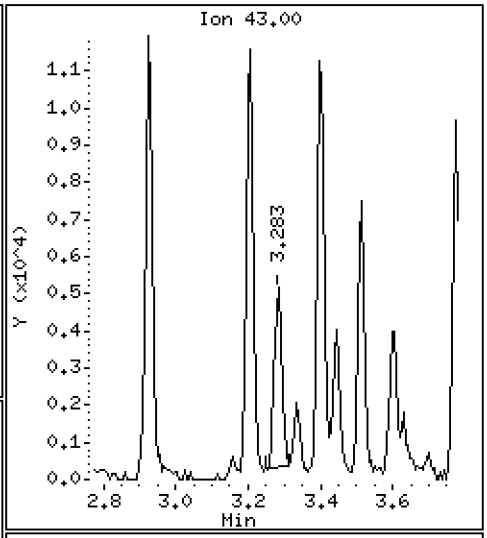
Sample Info: 1234;;1;1;1;;;

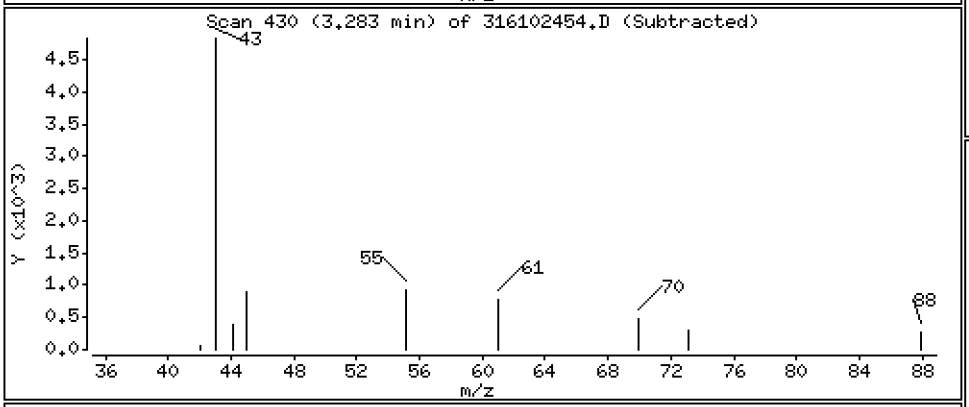
Purge Volume: 5.0 Operator: CJG

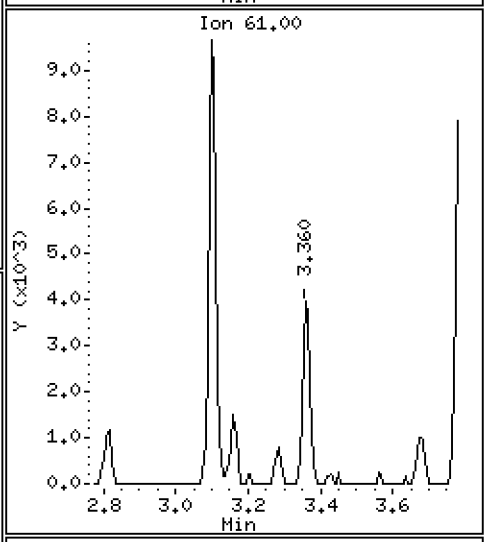
Column phase: DB-VRX Column diameter: 0.25

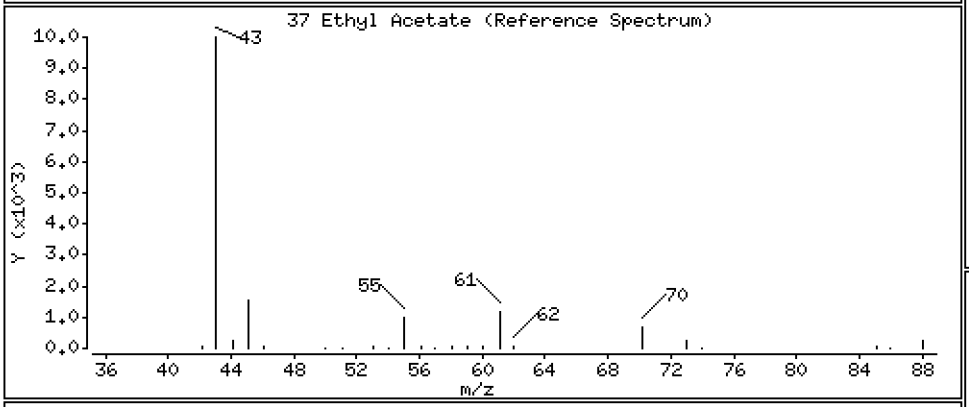
37 Ethyl Acetate Concentration: 0.893259 ug/L

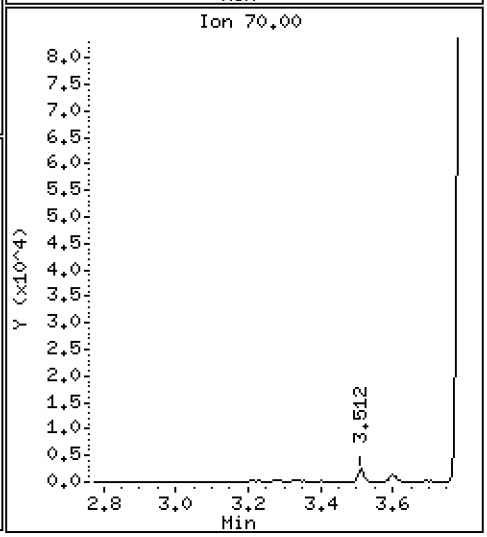


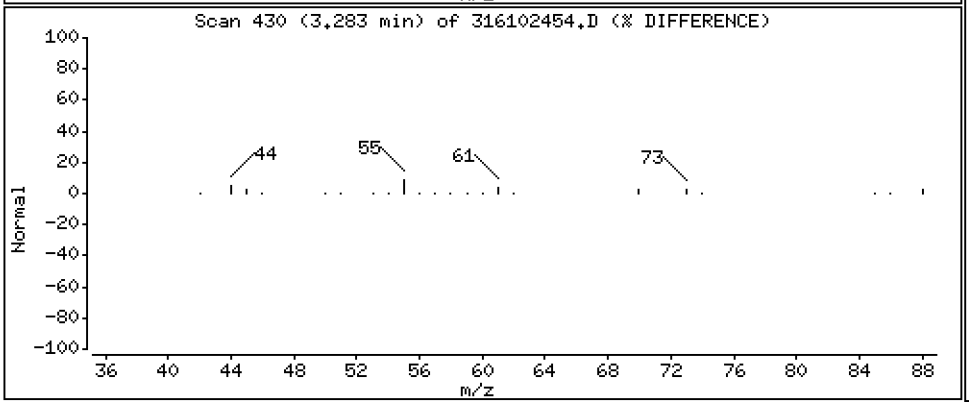












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 46

Date : 24-OCT-2016 23:46

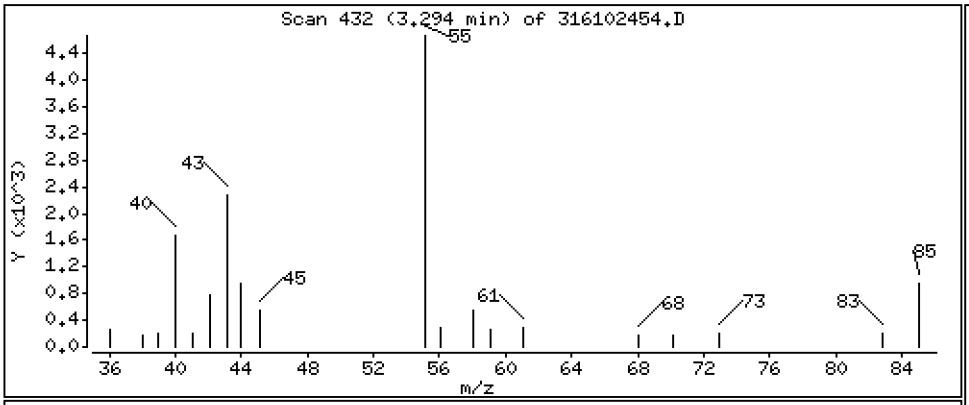
Client ID: Instrument: ms03.i

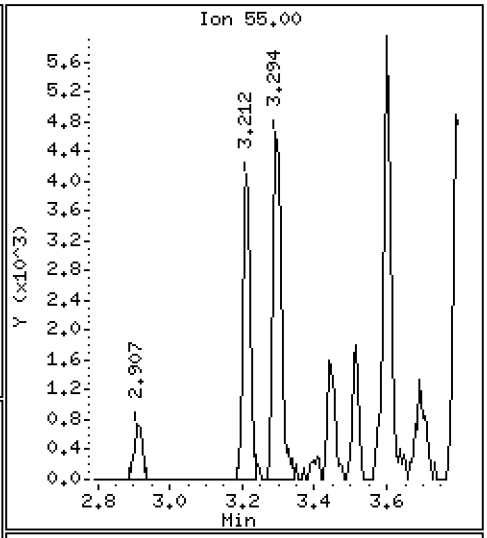
Sample Info: 1234;;1;1;1;;;

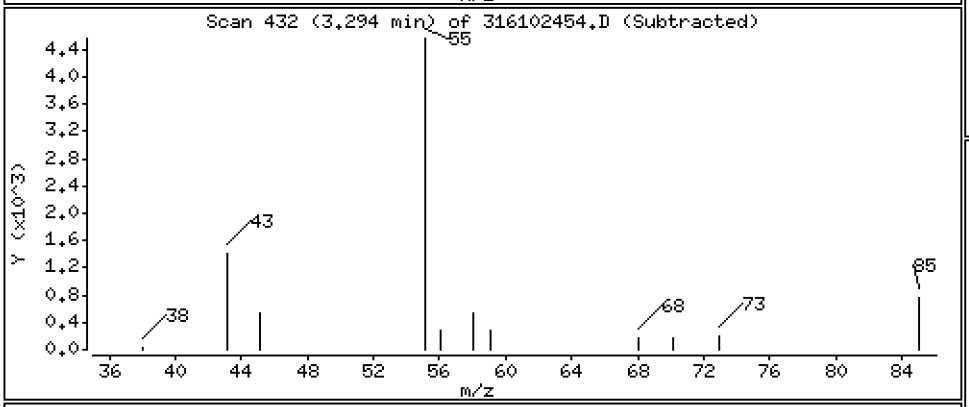
Purge Volume: 5.0 Operator: CJG

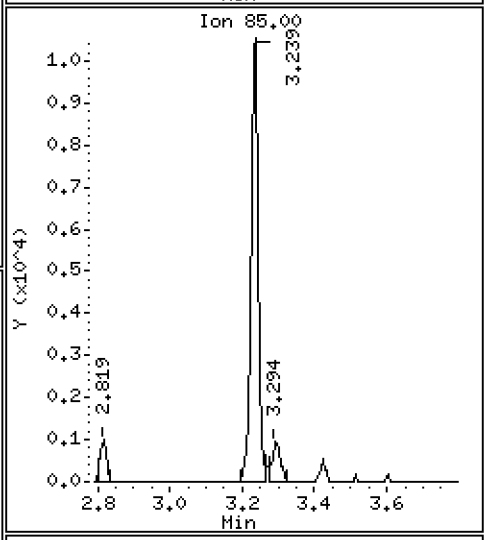
Column phase: DB-VRX Column diameter: 0.25

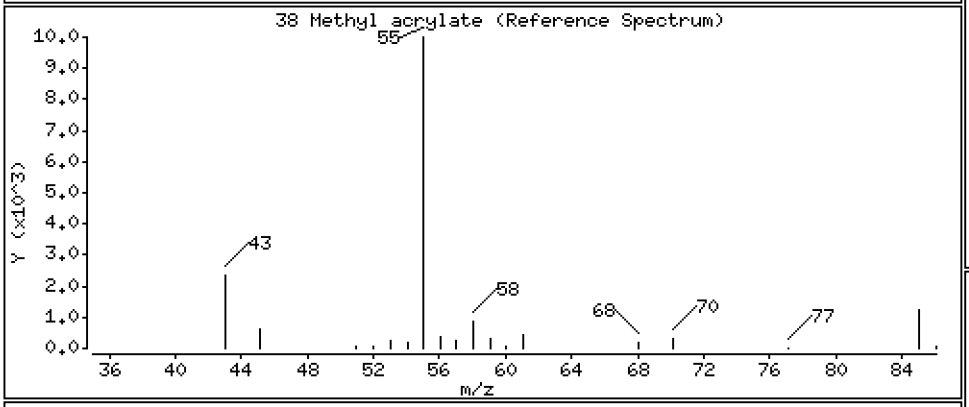
38 Methyl acrylate Concentration: 0.984186 ug/L

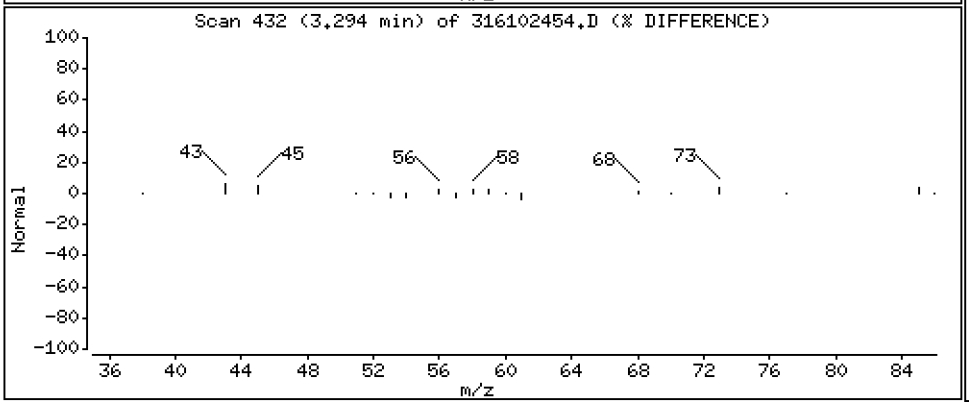


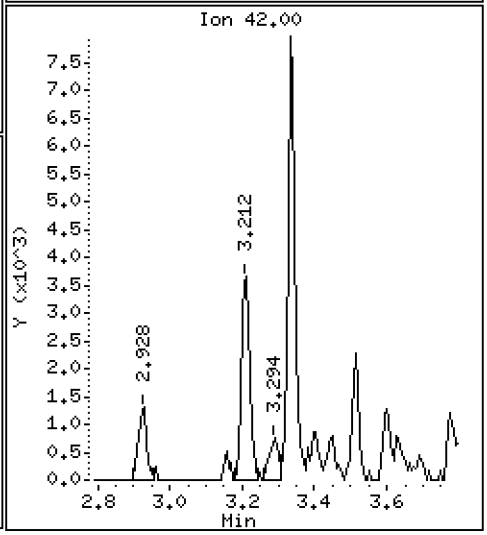












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 47

Date : 24-OCT-2016 23:46

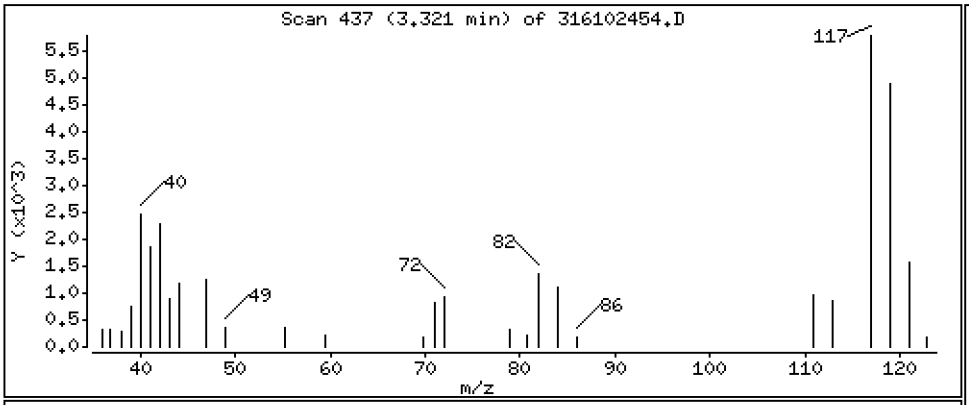
Client ID: Instrument: ms03.i

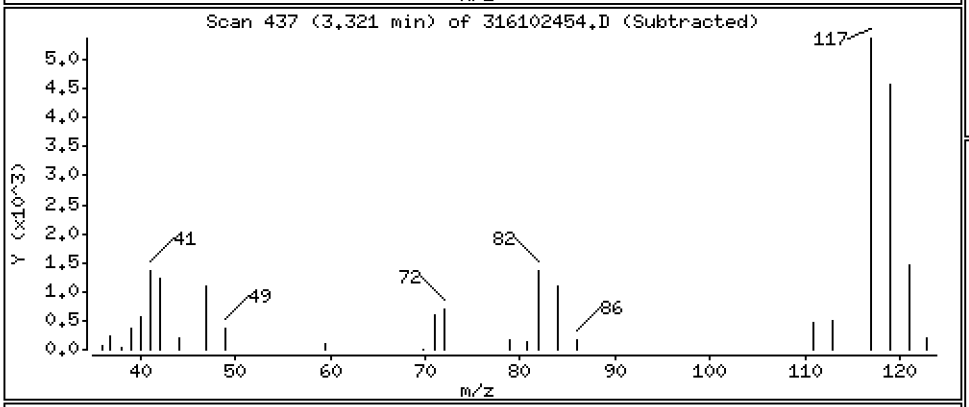
Sample Info: 1234;;1;1;1;;;

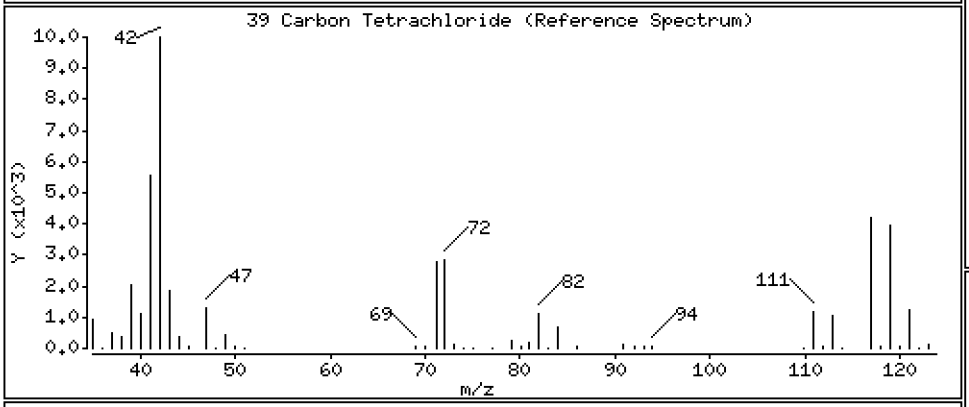
Purge Volume: 5.0 Operator: CJG

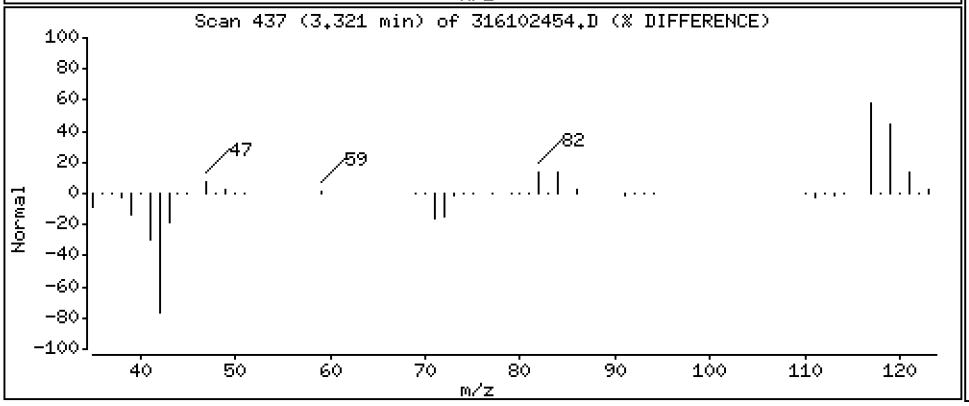
Column phase: DB-VRX Column diameter: 0.25

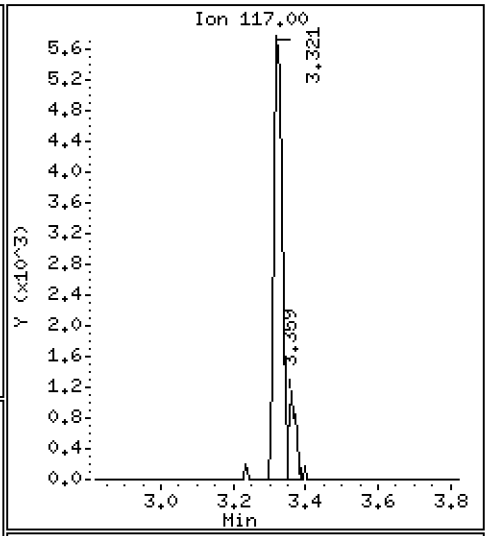
39 Carbon Tetrachloride Concentration: 1.04749 ug/L

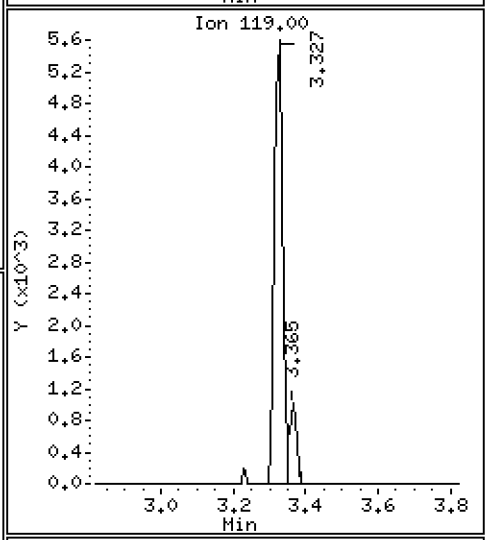


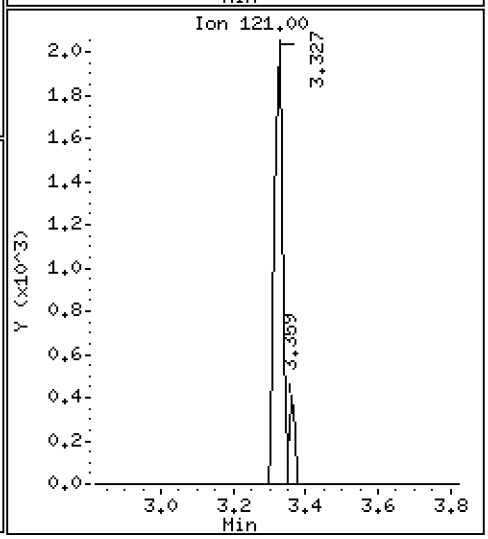












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 48

Date : 24-OCT-2016 23:46

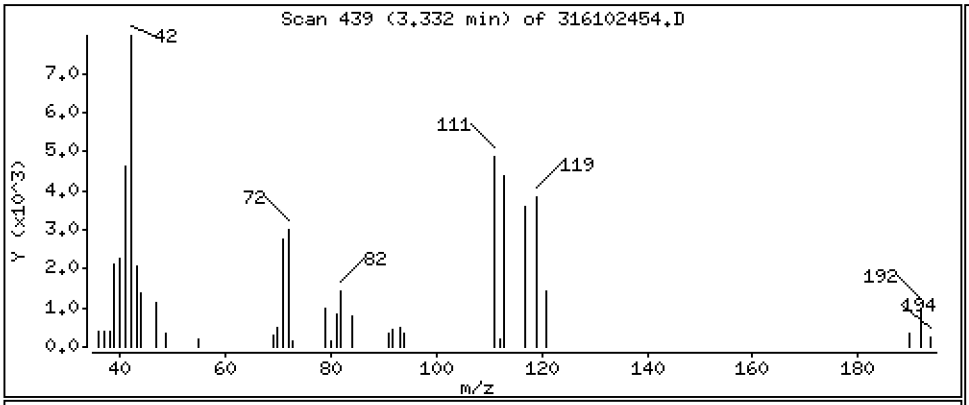
Client ID: Instrument: ms03.i

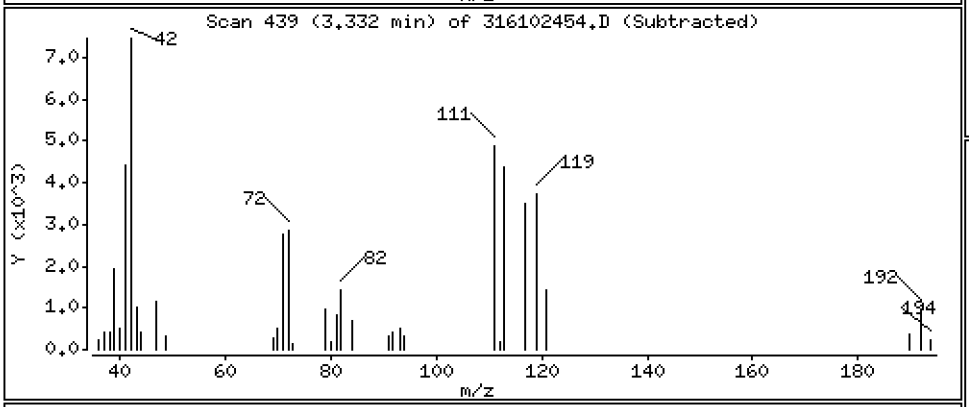
Sample Info: 1234;;1;1;1;;;

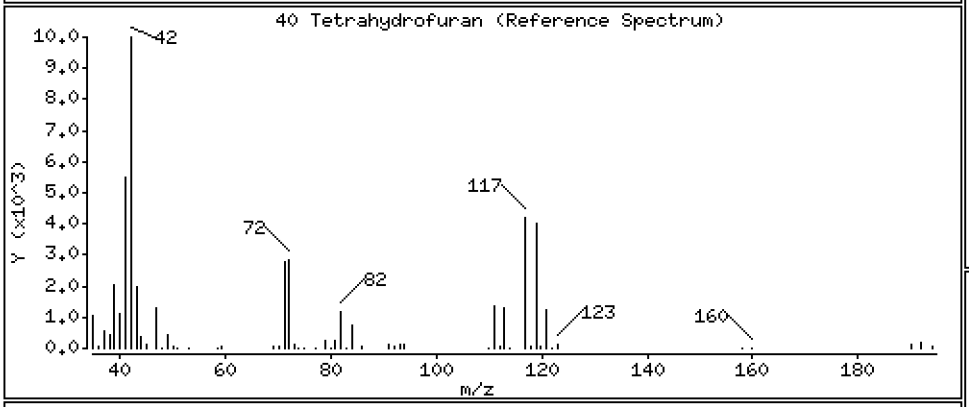
Purge Volume: 5.0 Operator: CJG

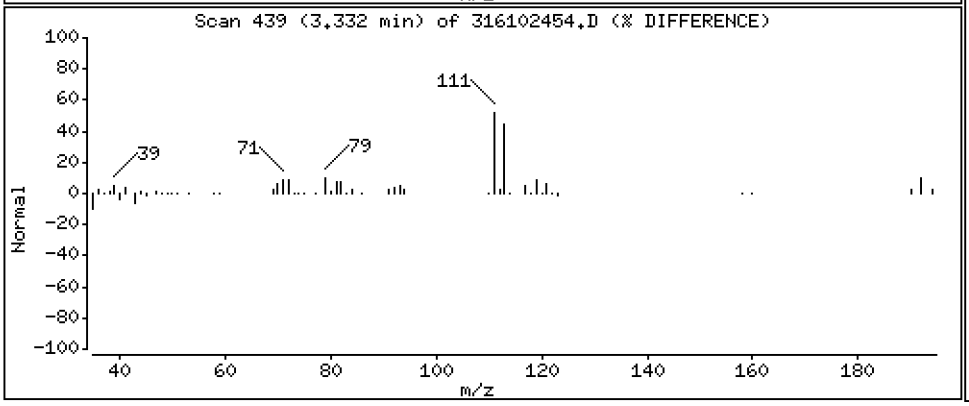
Column phase: DB-VRX Column diameter: 0.25

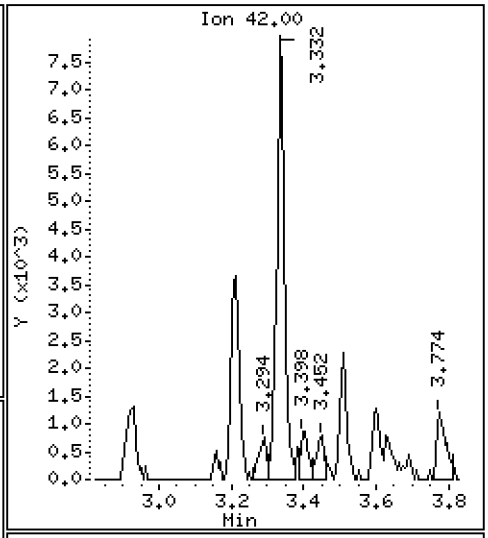
40 Tetrahydrofuran Concentration: 5.15183 ug/L

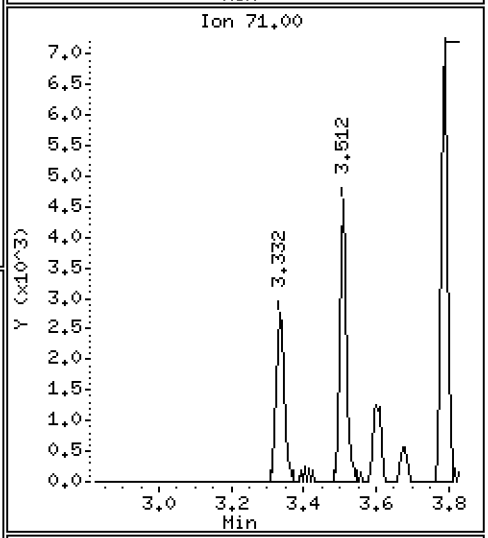


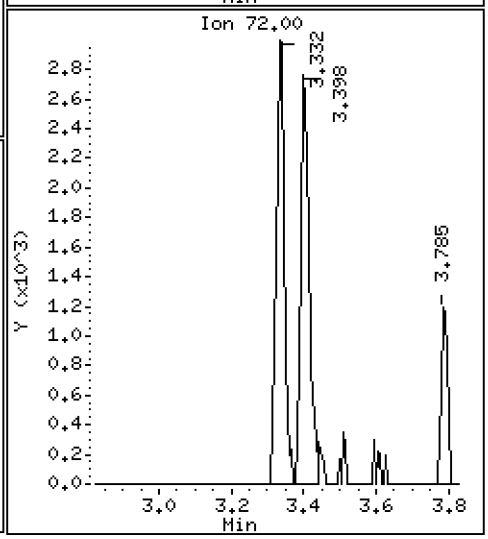












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 49

Date : 24-OCT-2016 23:46

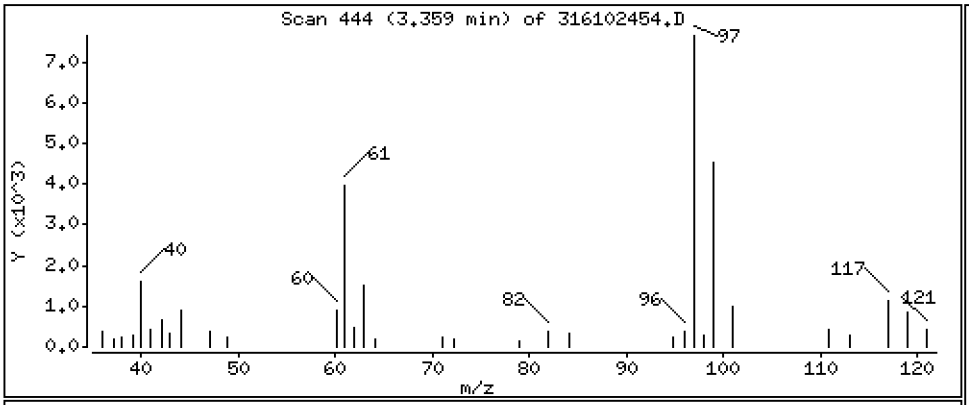
Client ID: Instrument: ms03.i

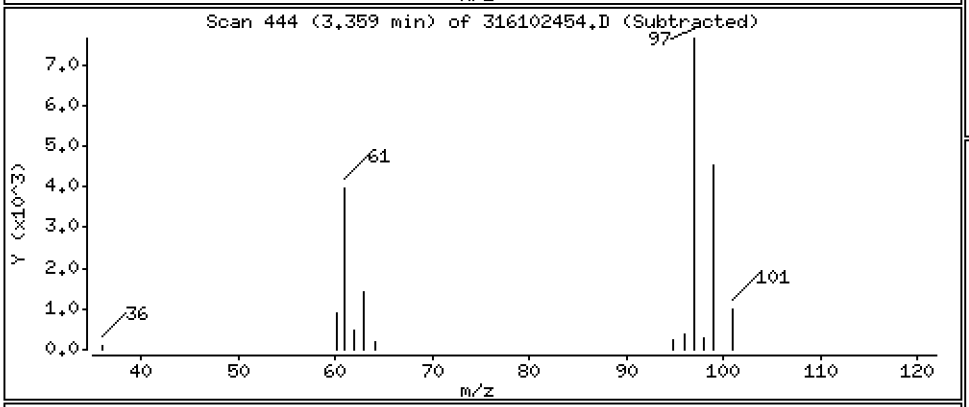
Sample Info: 1234;;1;1;1;;;

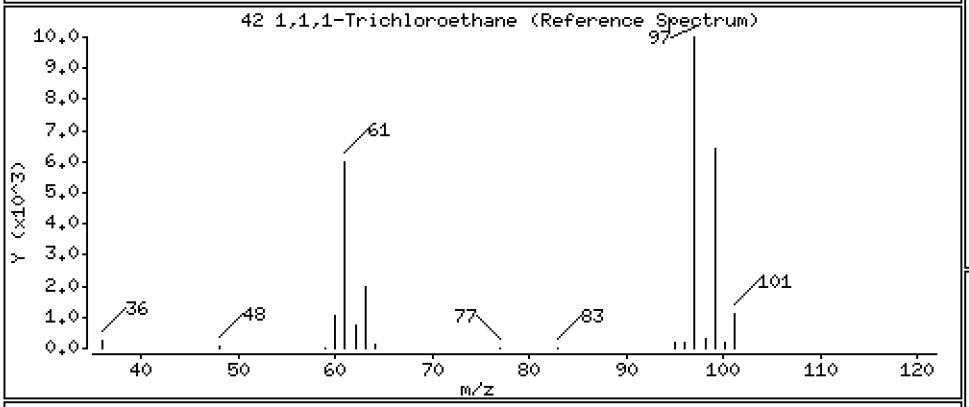
Purge Volume: 5.0 Operator: CJG

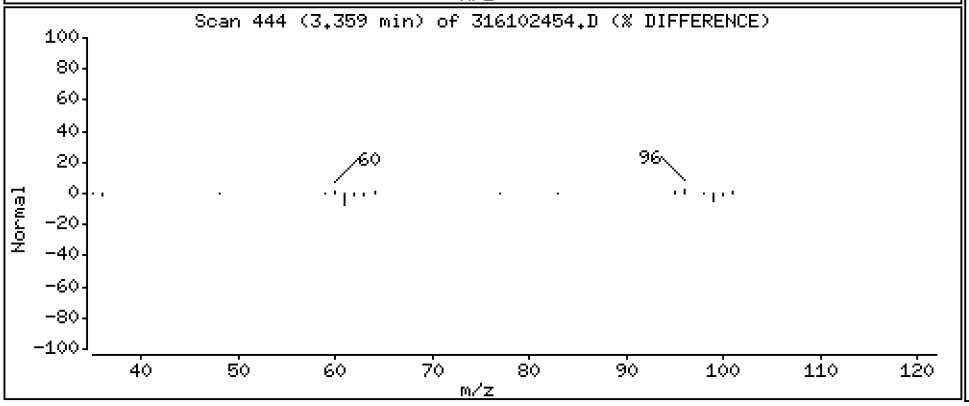
Column phase: DB-VRX Column diameter: 0.25

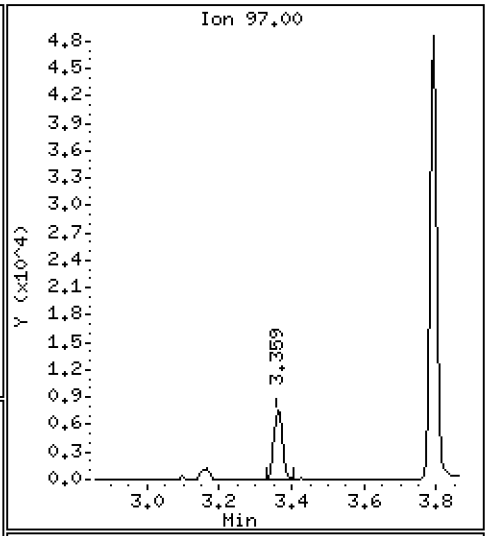
42 1,1,1-Trichloroethane Concentration: 1.04332 ug/L

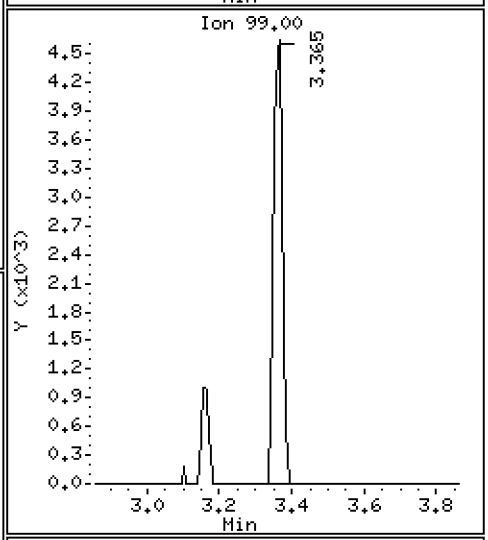


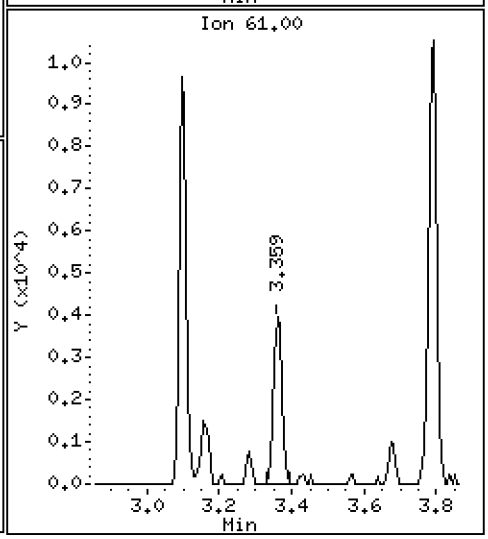












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 50

Date : 24-OCT-2016 23:46

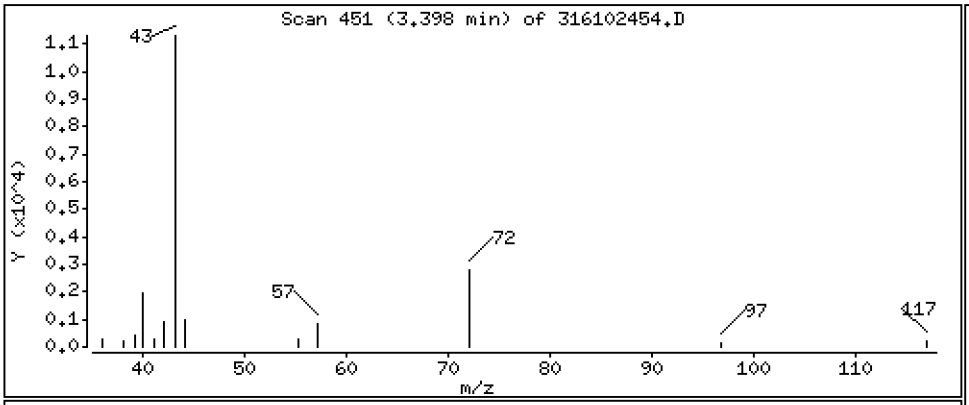
Client ID: Instrument: ms03.i

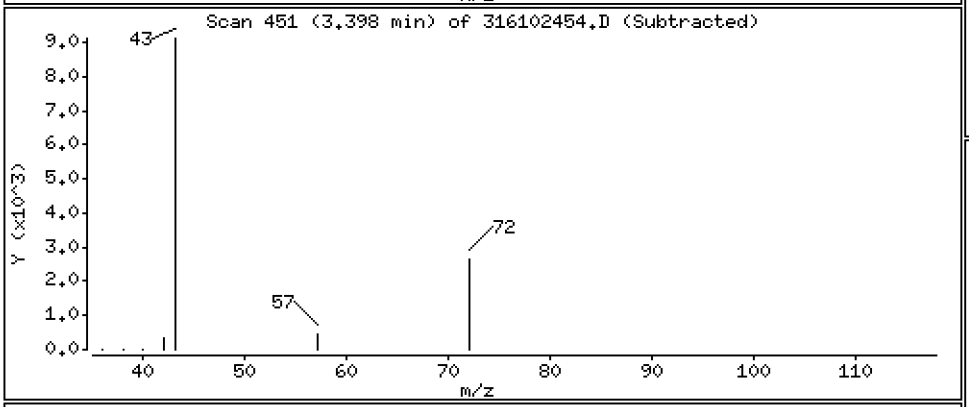
Sample Info: 1234;;1;1;1;;;

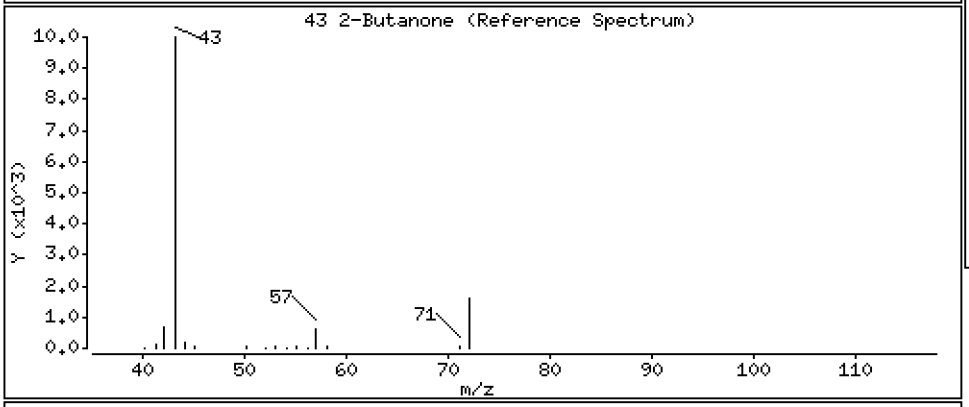
Purge Volume: 5.0 Operator: CJG

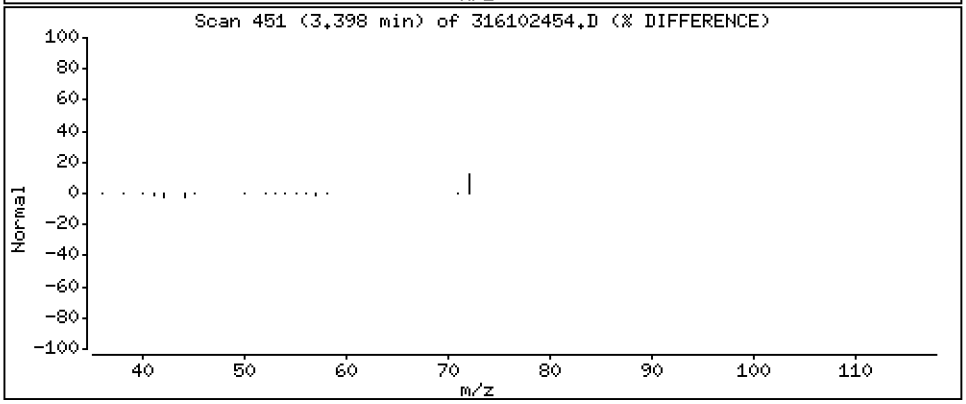
Column phase: DB-VRX Column diameter: 0.25

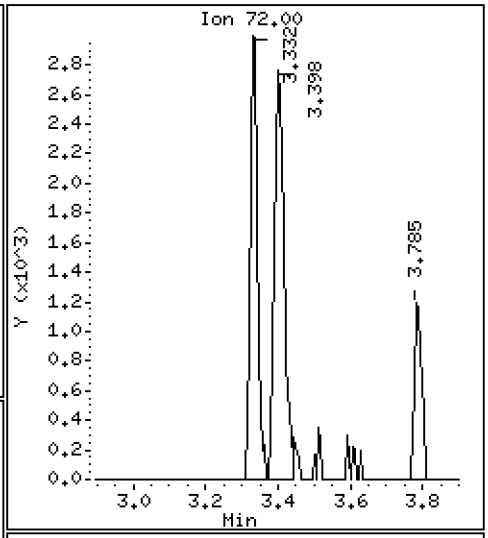
43 2-Butanone Concentration: 5.23071 ug/L

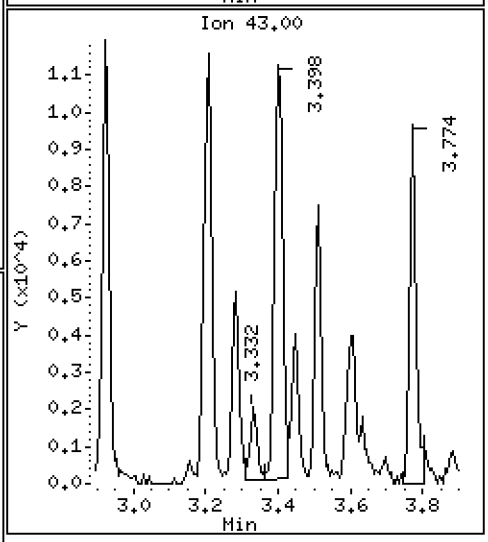












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 51

Date : 24-OCT-2016 23:46

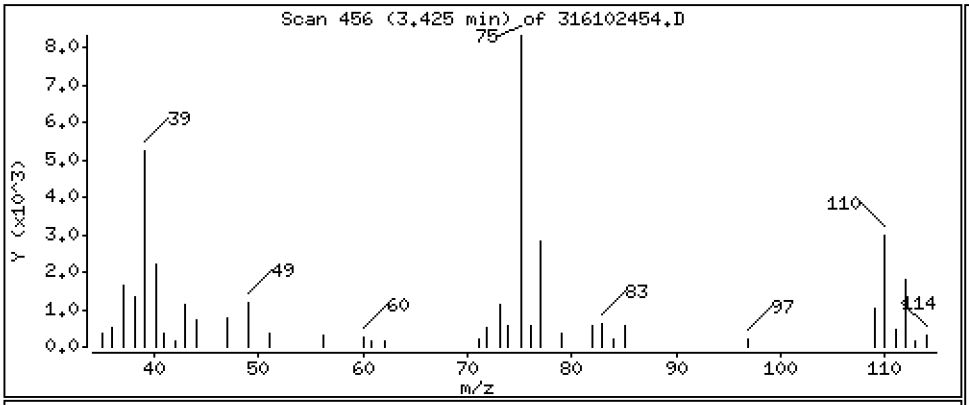
Client ID: Instrument: ms03.i

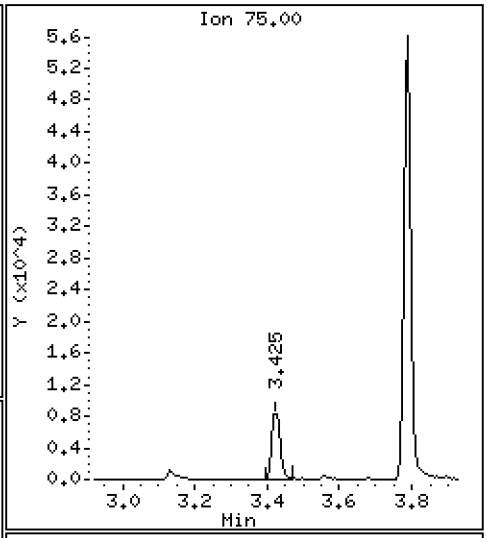
Sample Info: 1234;;1;1;1;;;

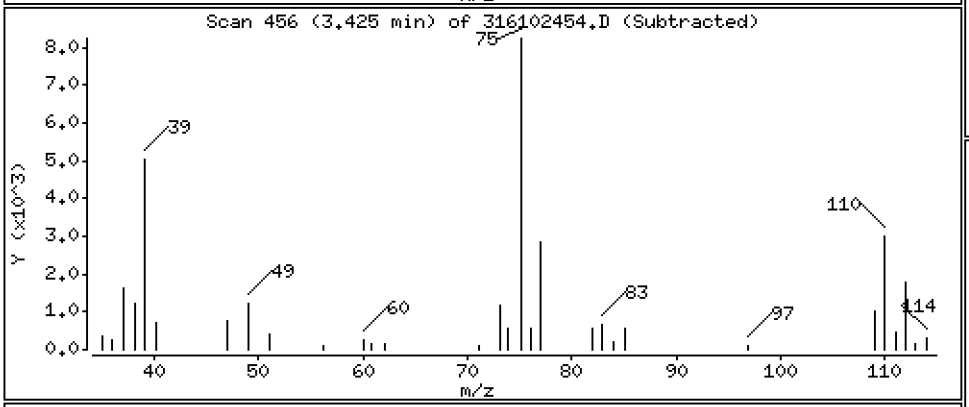
Purge Volume: 5.0 Operator: CJG

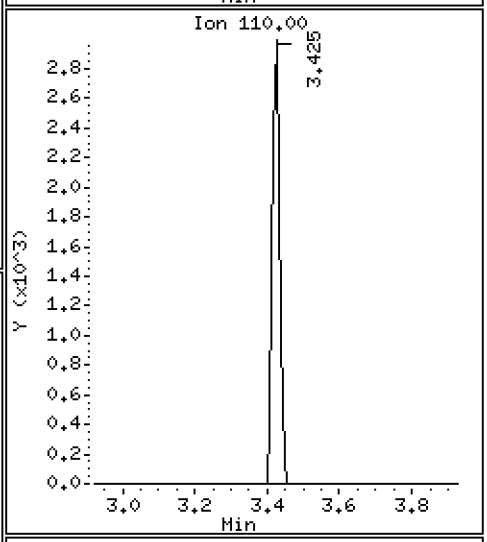
Column phase: DB-VRX Column diameter: 0.25

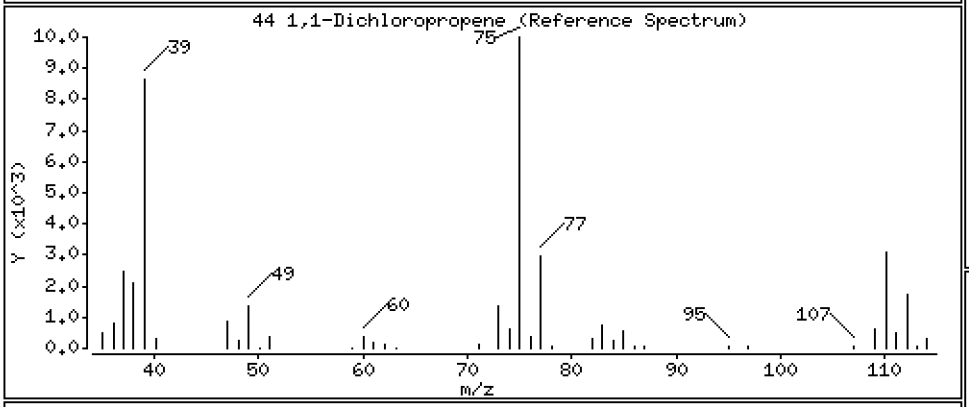
44 1,1-Dichloropropene Concentration: 1.13880 ug/L

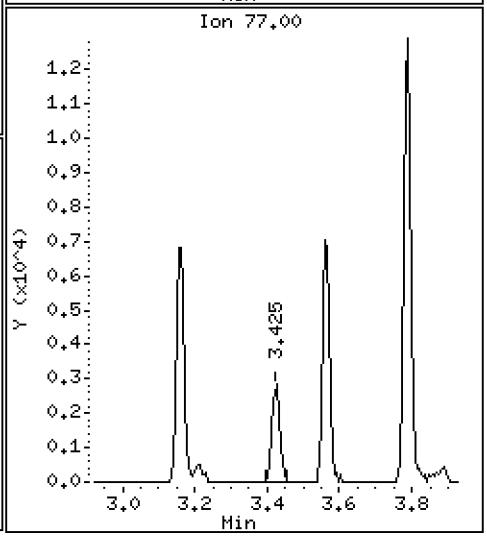


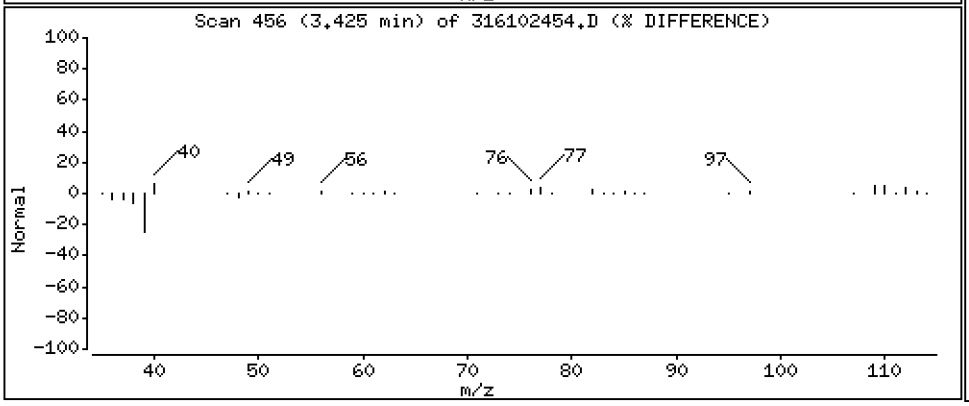












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 52

Date : 24-OCT-2016 23:46

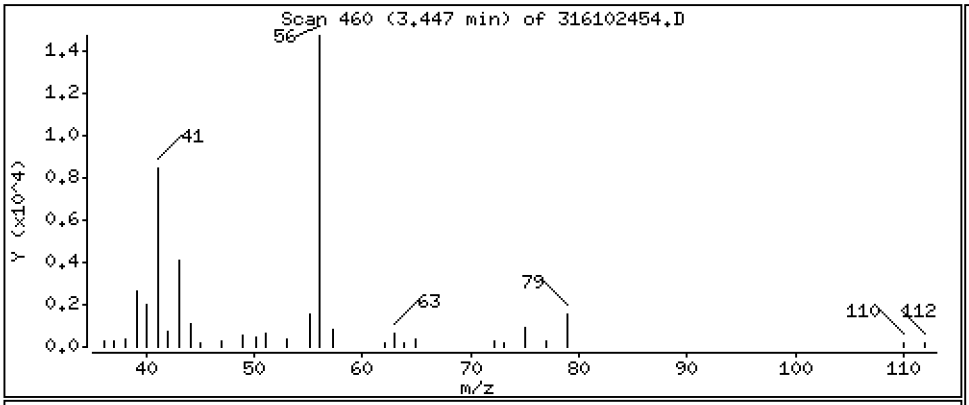
Client ID: Instrument: ms03.i

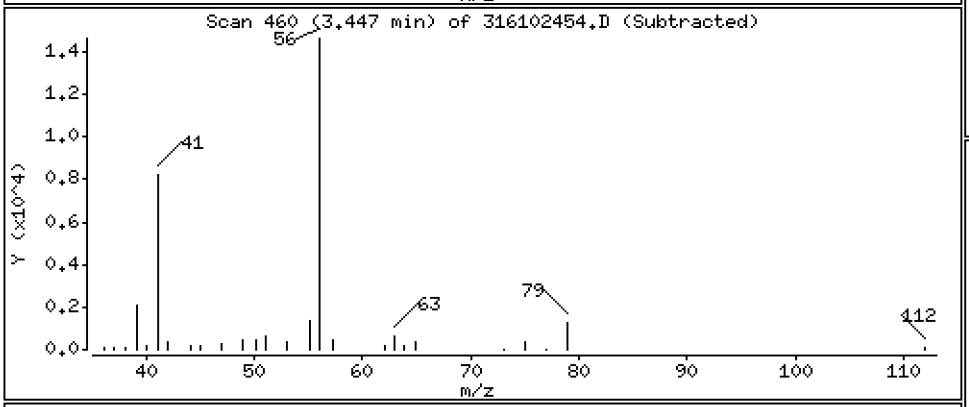
Sample Info: 1234;;1;1;1;;;

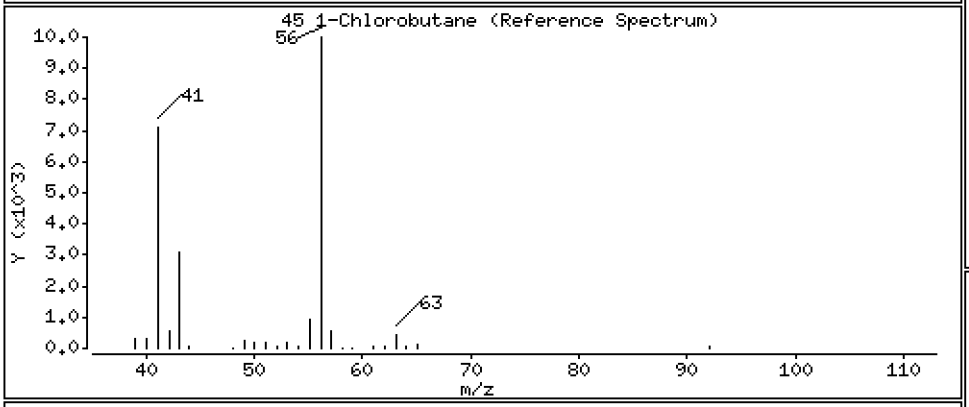
Purge Volume: 5.0 Operator: CJG

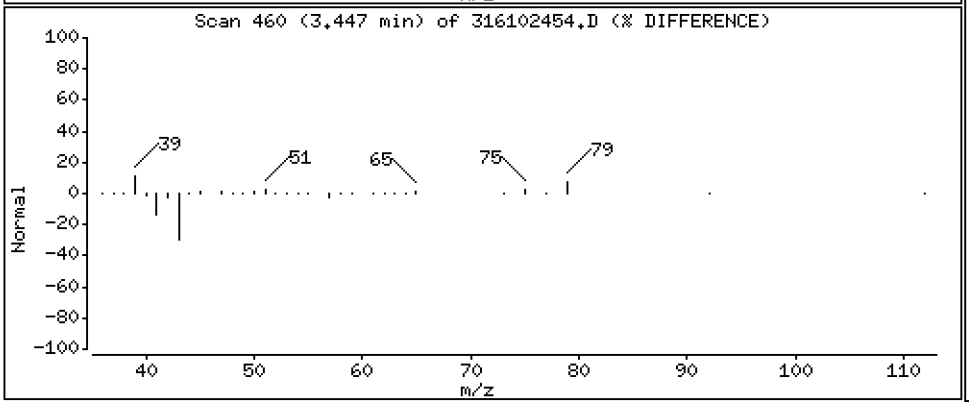
Column phase: DB-VRX Column diameter: 0.25

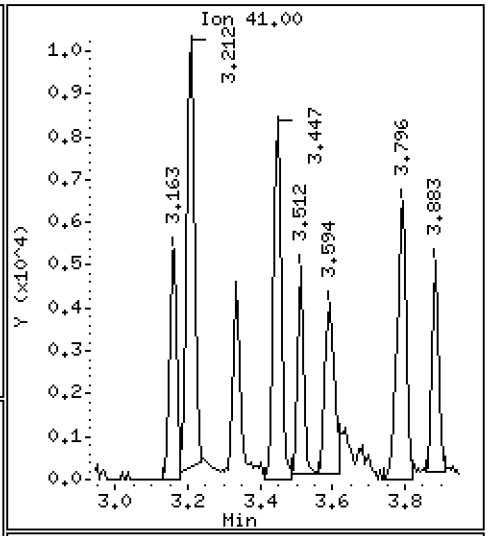
45 1-Chlorobutane Concentration: 1.26116 ug/L

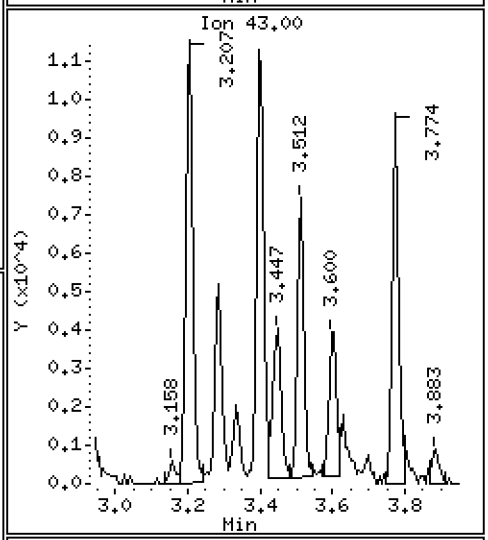


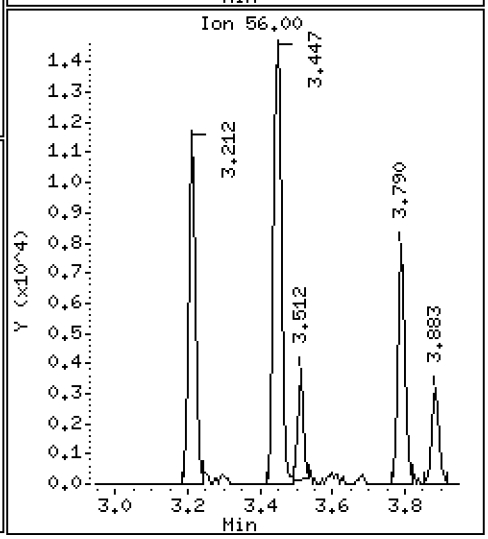












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 53

Date : 24-OCT-2016 23:46

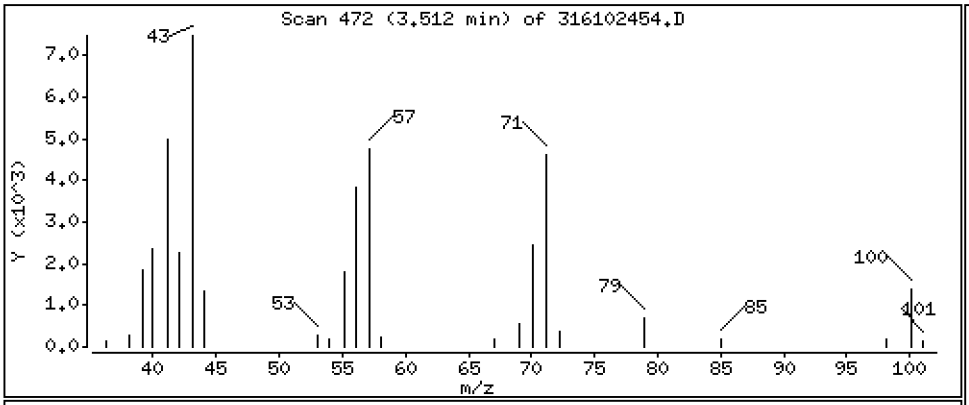
Client ID: Instrument: ms03.i

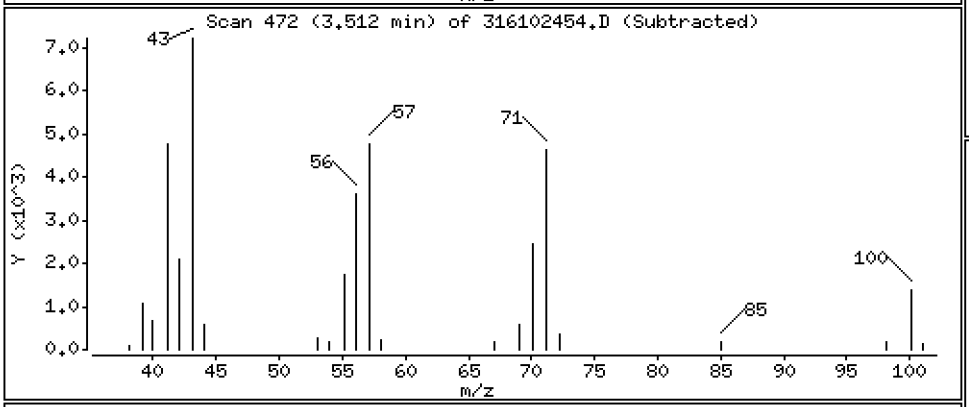
Sample Info: 1234;;1;1;1;;;

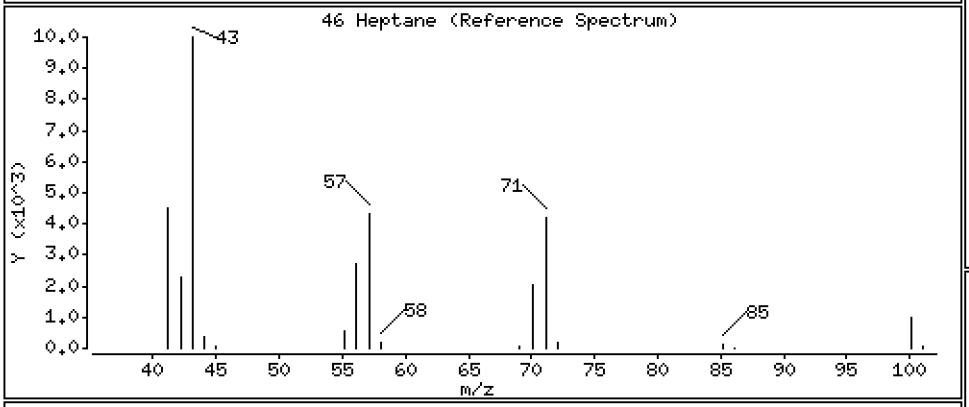
Purge Volume: 5.0 Operator: CJG

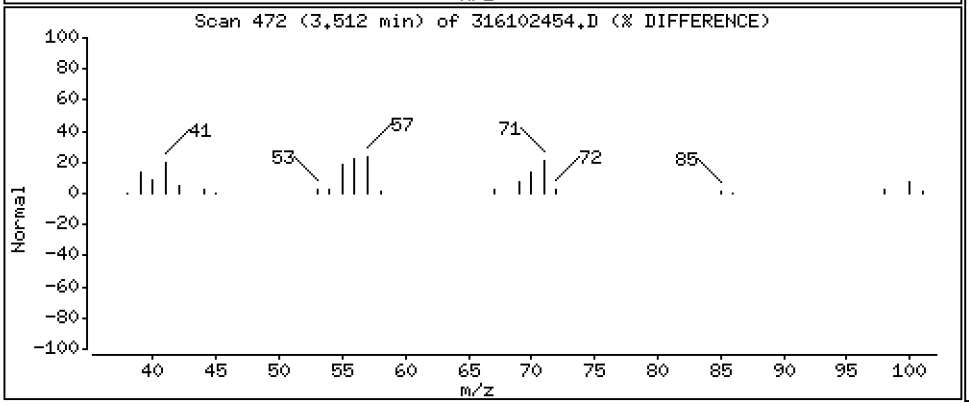
Column phase: DB-VRX Column diameter: 0.25

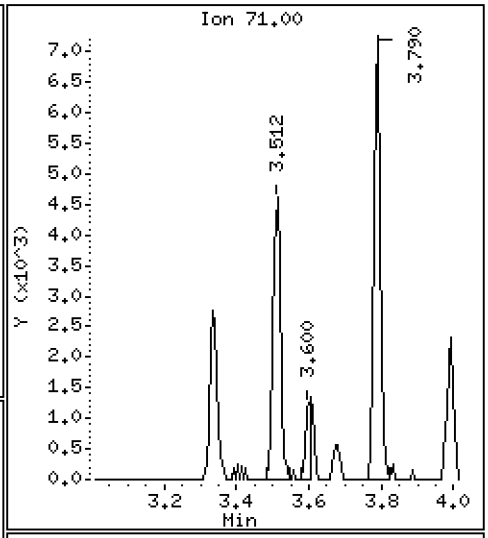
46 Heptane Concentration: 1.13200 ug/L

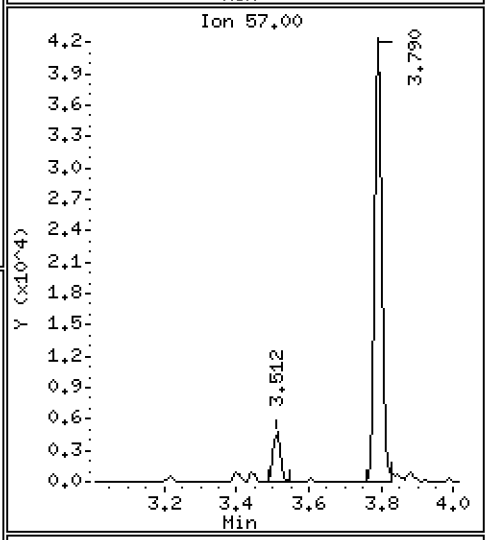


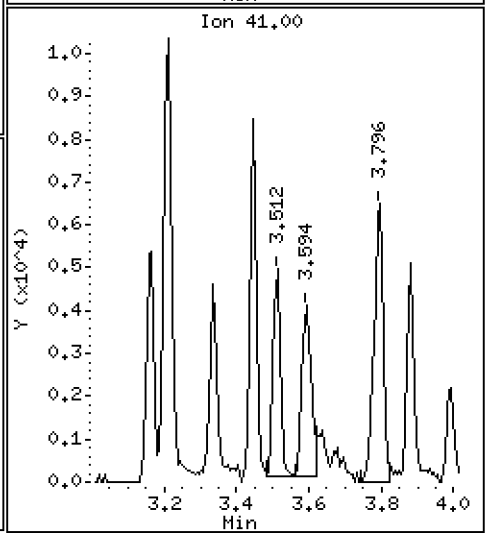












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 54

Date : 24-OCT-2016 23:46

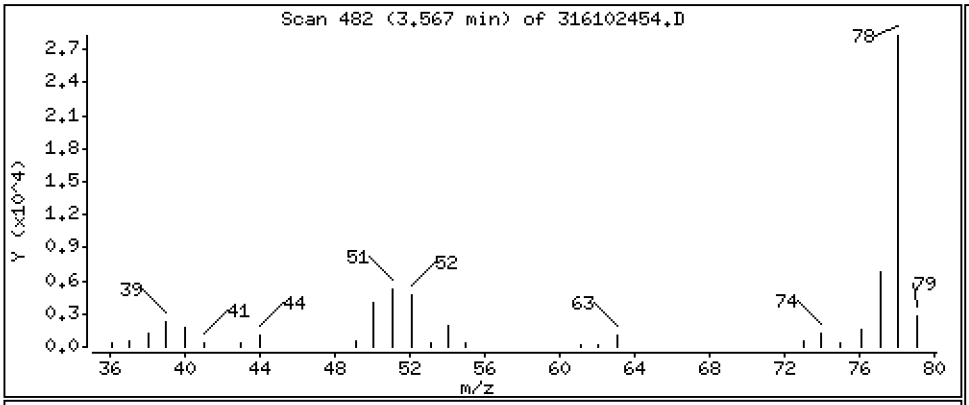
Client ID: Instrument: ms03.i

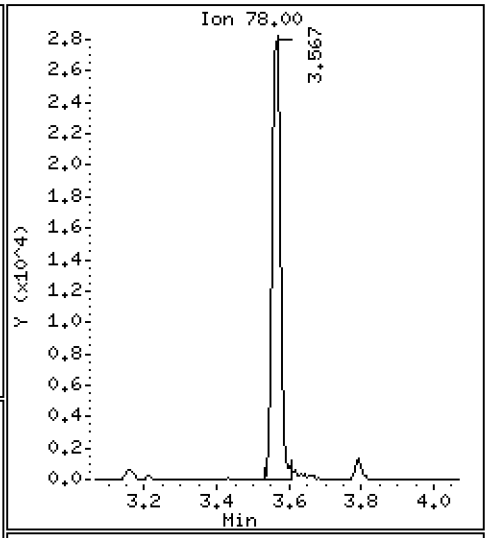
Sample Info: 1234;;1;1;1;;;

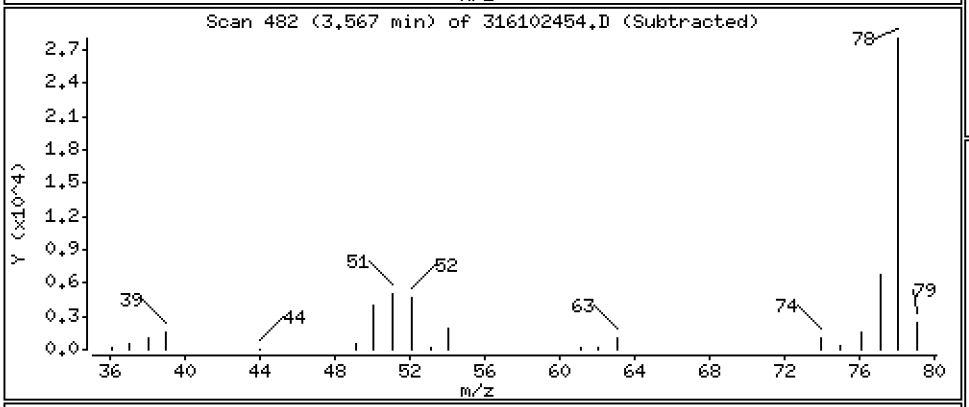
Purge Volume: 5.0 Operator: CJG

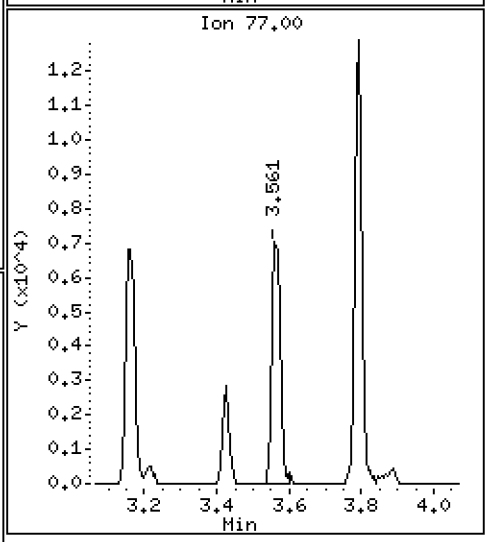
Column phase: DB-VRX Column diameter: 0.25

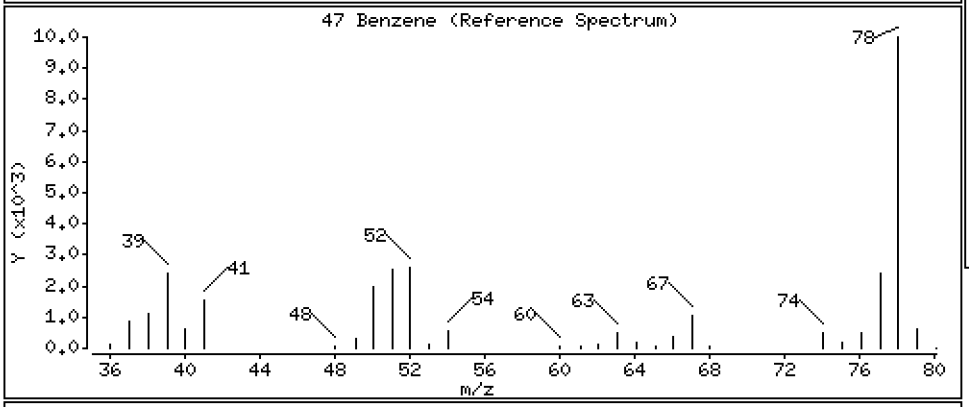
47 Benzene Concentration: 1.13684 ug/L

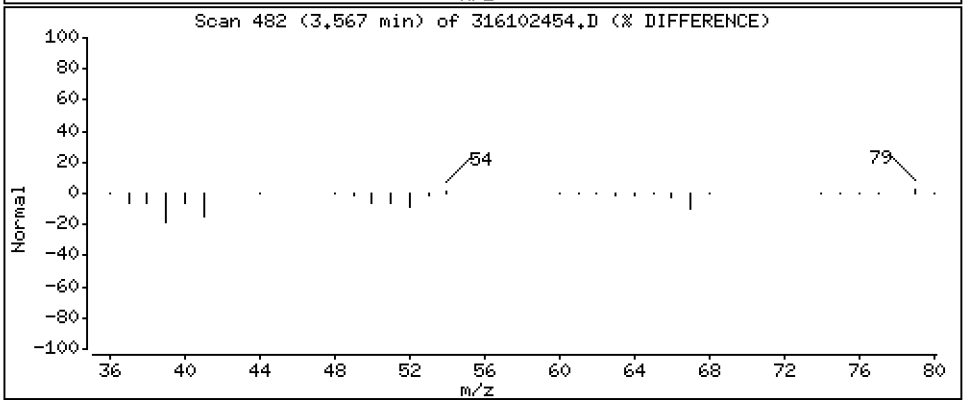












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 55

Date : 24-OCT-2016 23:46

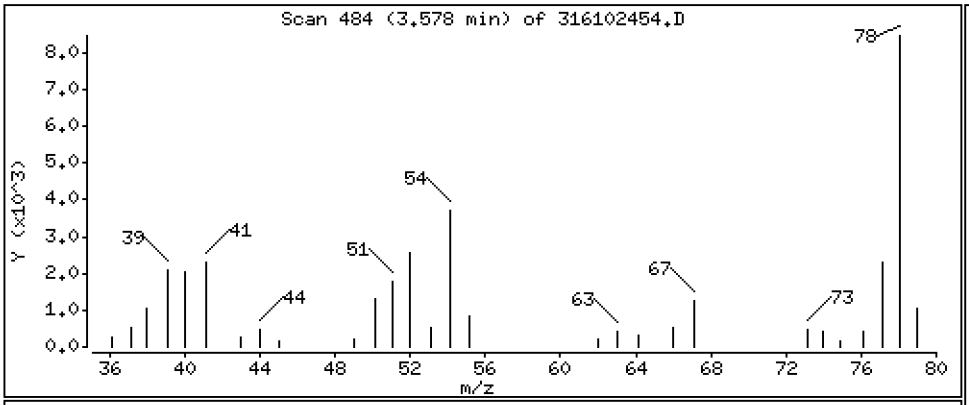
Client ID: Instrument: ms03.i

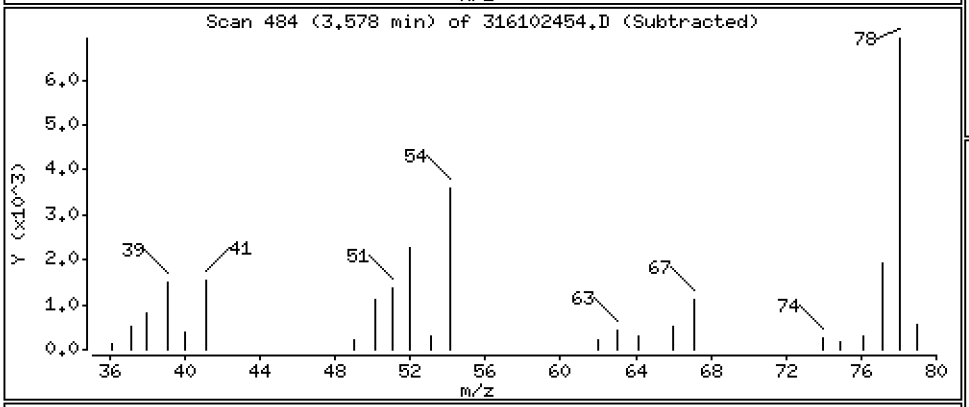
Sample Info: 1234;;1;1;1;;;

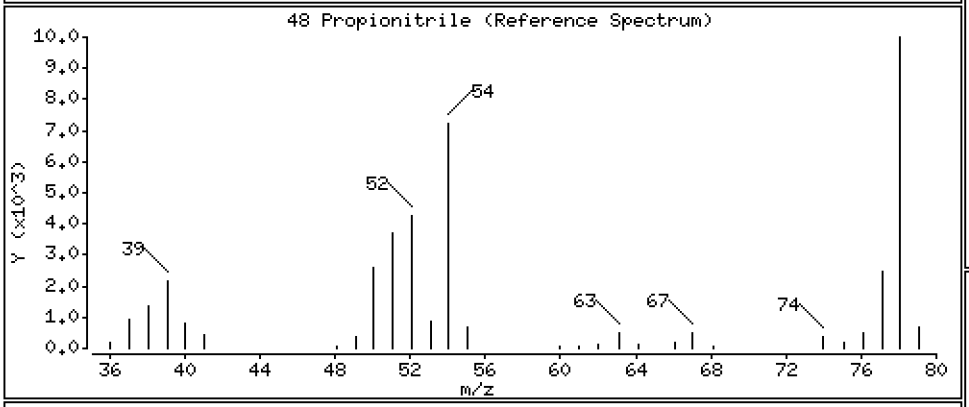
Purge Volume: 5.0 Operator: CJG

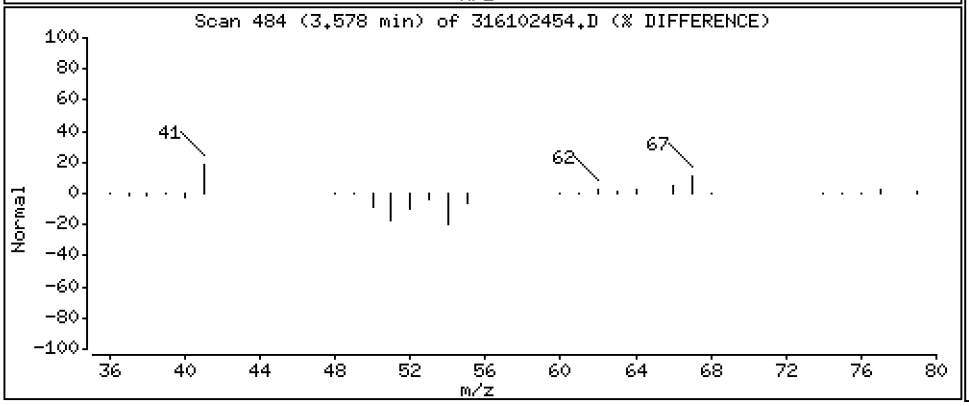
Column phase: DB-VRX Column diameter: 0.25

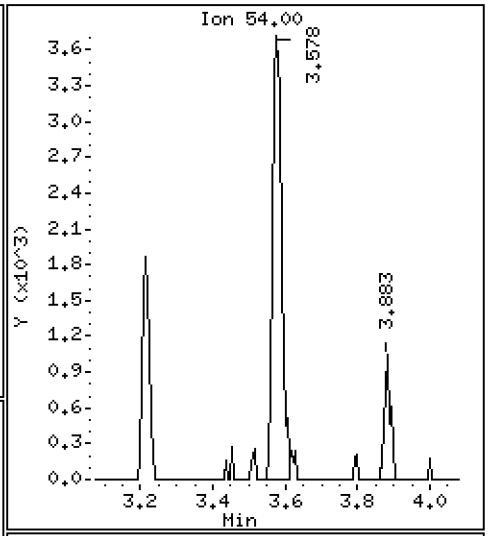
48 Propionitrile Concentration: 5.50744 ug/L

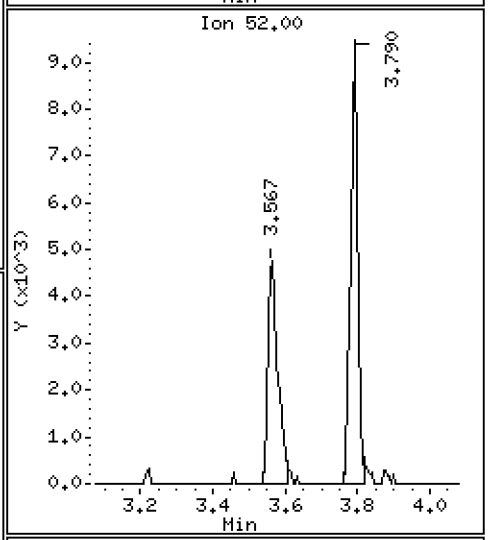


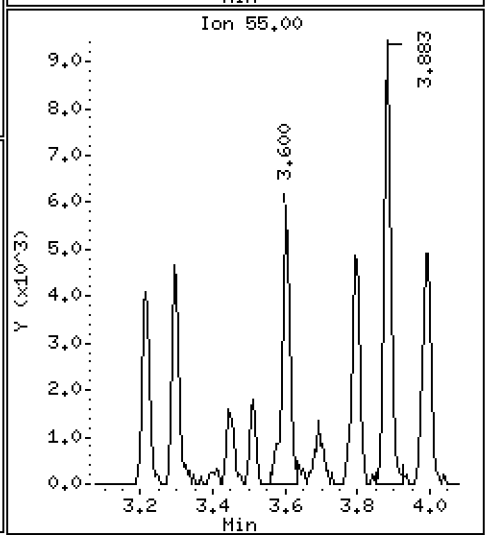












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 56

Date : 24-OCT-2016 23:46

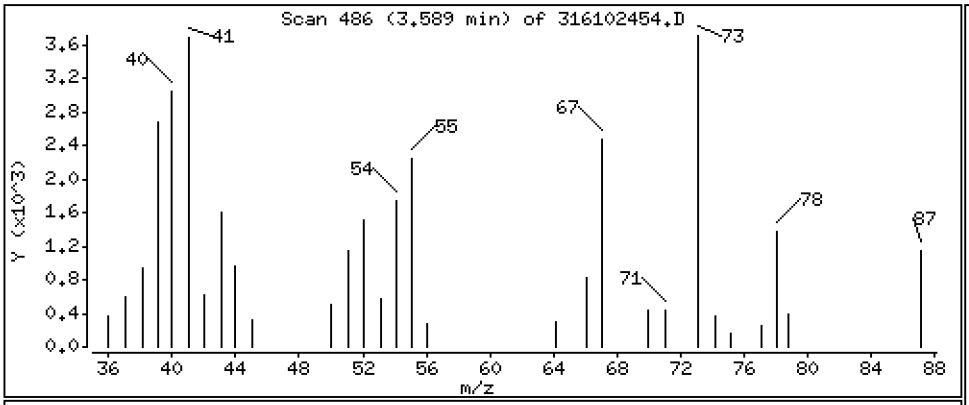
Client ID: Instrument: ms03.i

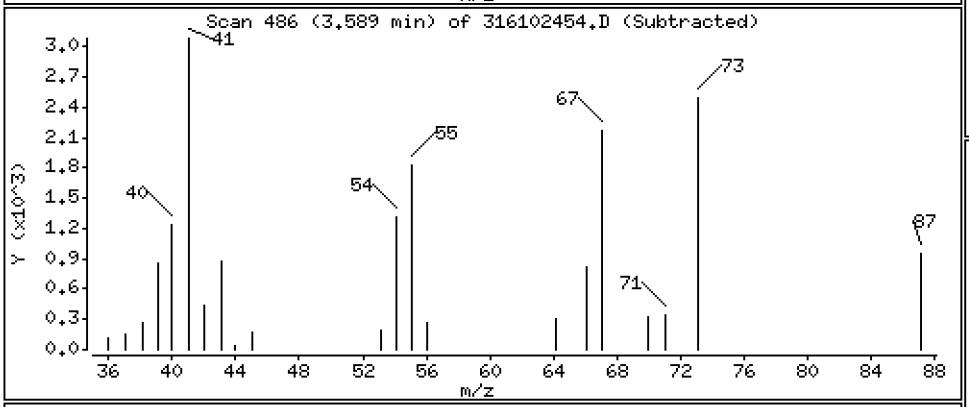
Sample Info: 1234;;1;1;1;;;

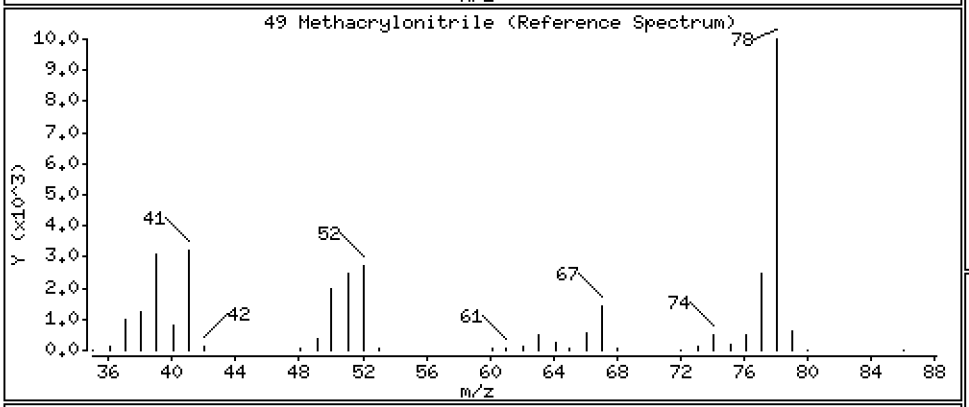
Purge Volume: 5.0 Operator: CJG

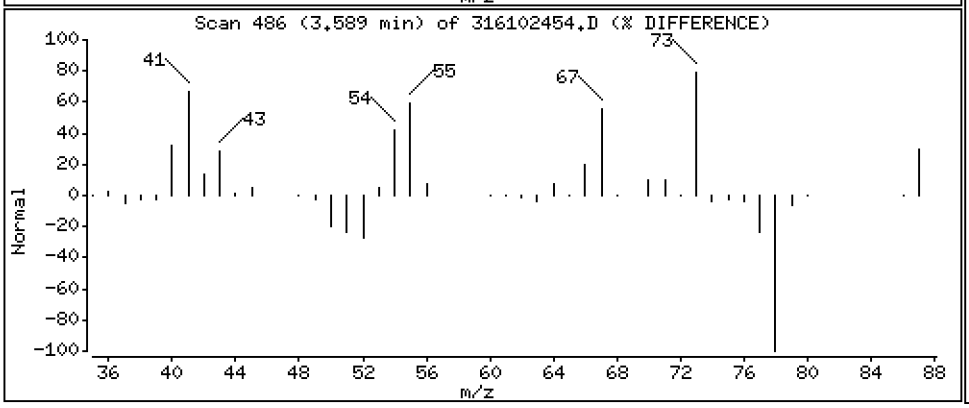
Column phase: DB-VRX Column diameter: 0.25

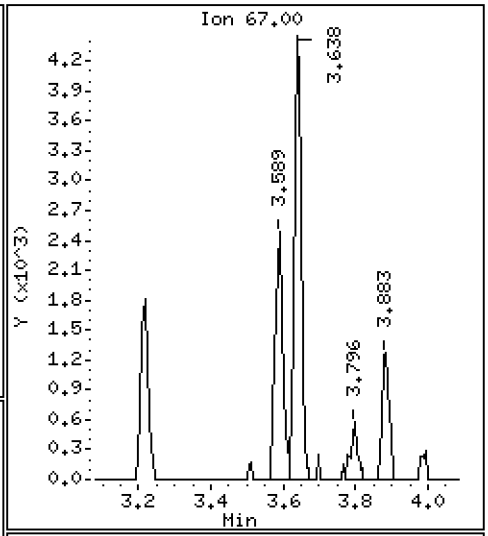
49 Methacrylonitrile Concentration: 1.07968 ug/L

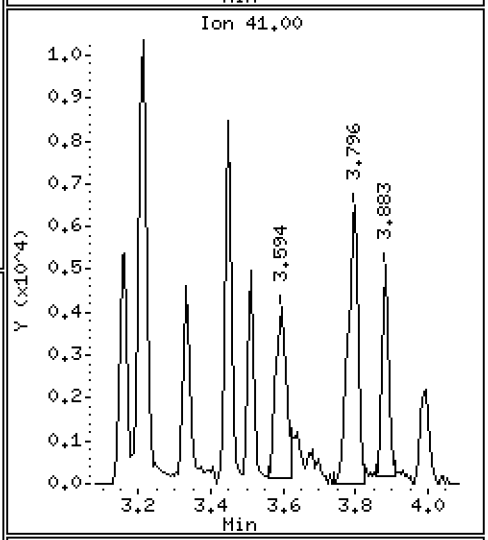


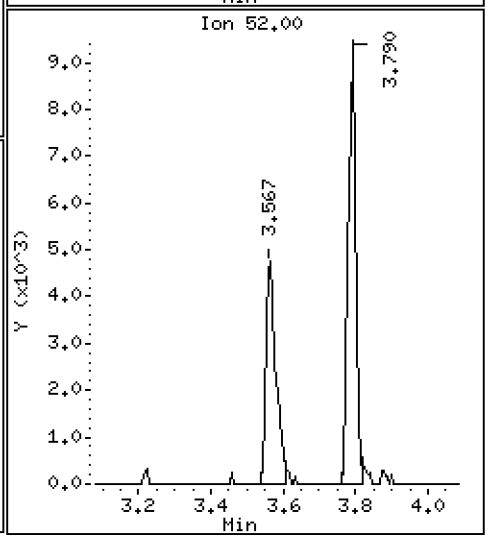












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 57

Date : 24-OCT-2016 23:46

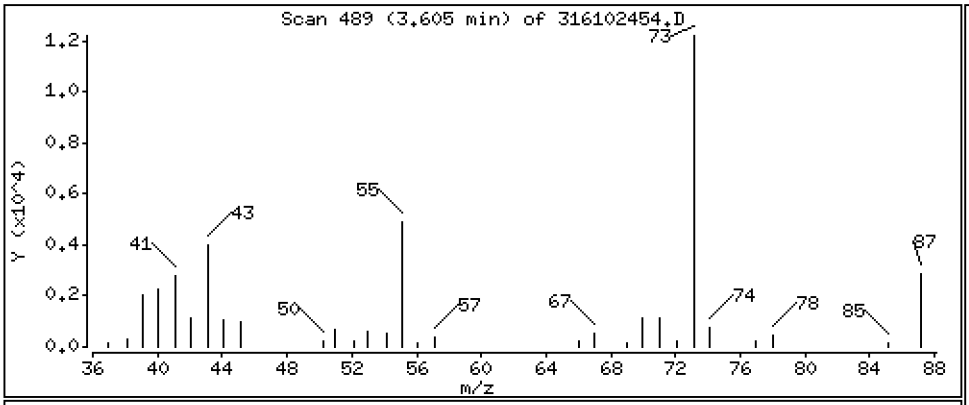
Client ID: Instrument: ms03.i

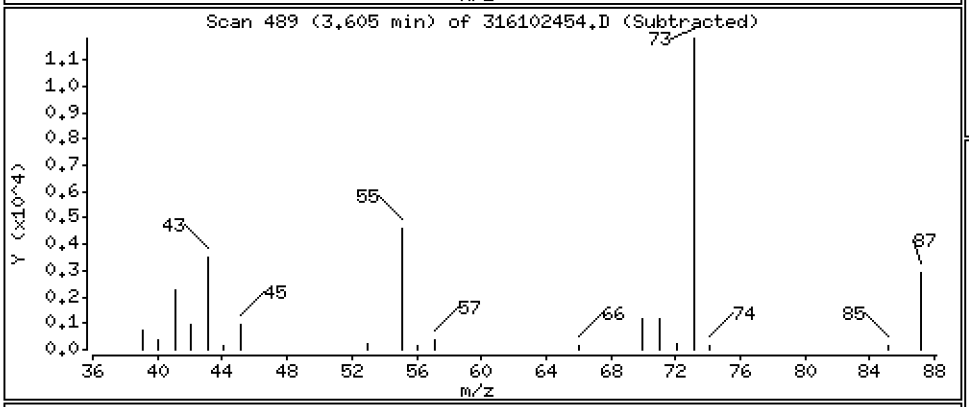
Sample Info: 1234;;1;1;1;;;

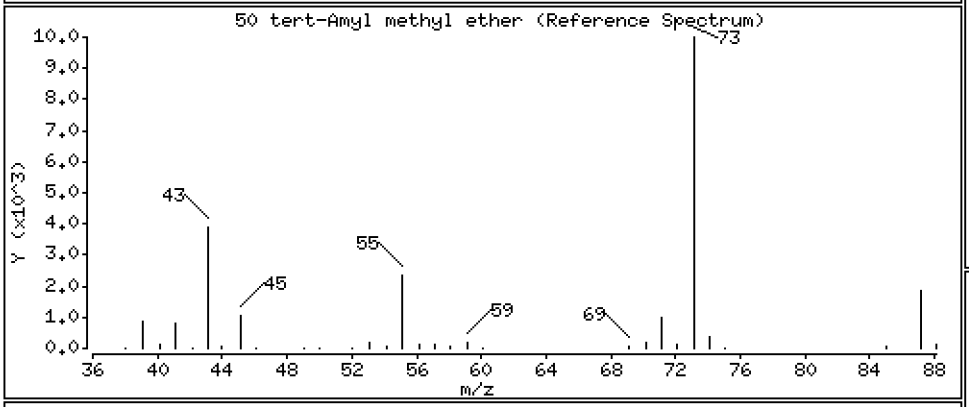
Purge Volume: 5.0 Operator: CJG

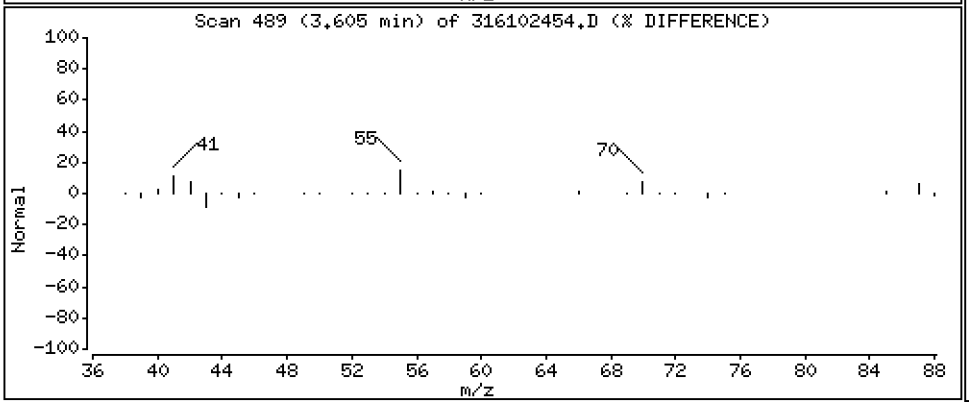
Column phase: DB-VRX Column diameter: 0.25

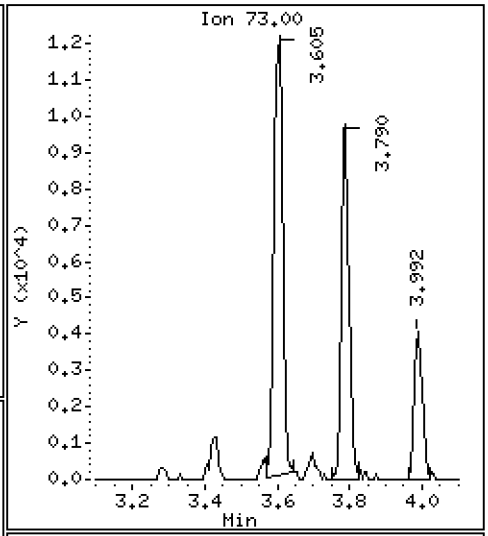
50 tert-Amyl methyl ether Concentration: 0.948067 ug/L

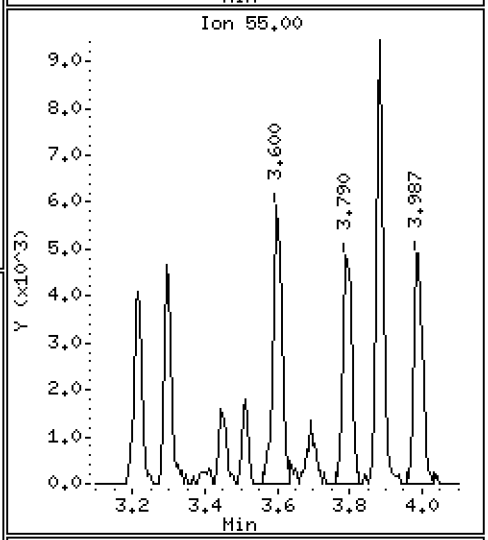


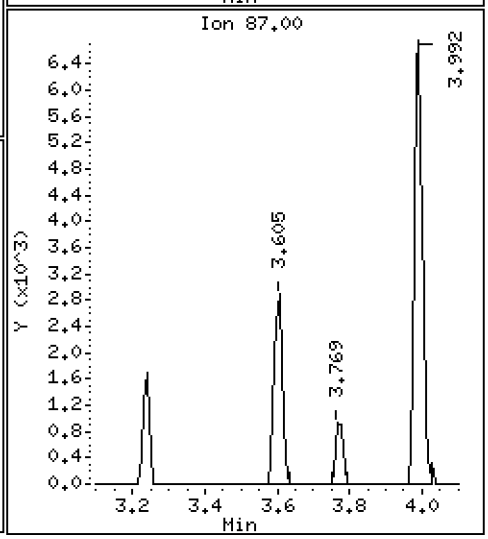












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 58

Date : 24-OCT-2016 23:46

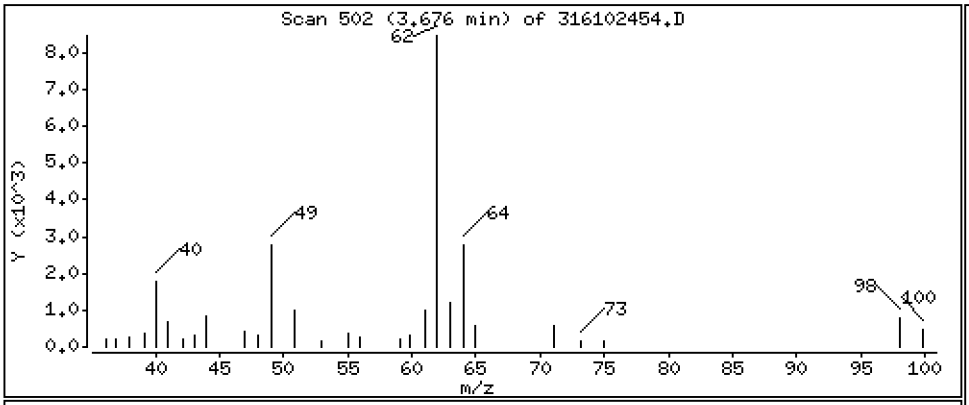
Client ID: Instrument: ms03.i

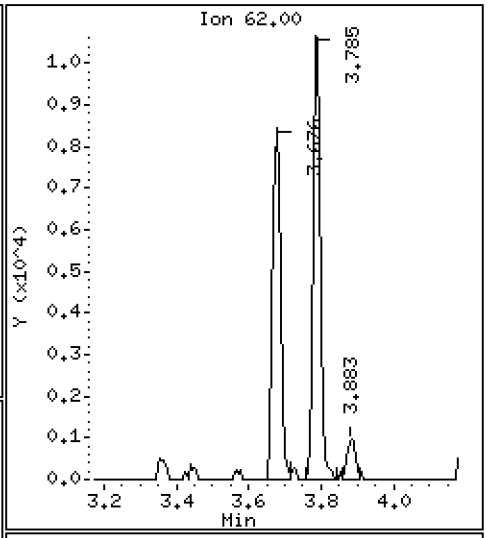
Sample Info: 1234;;1;1;1;;;

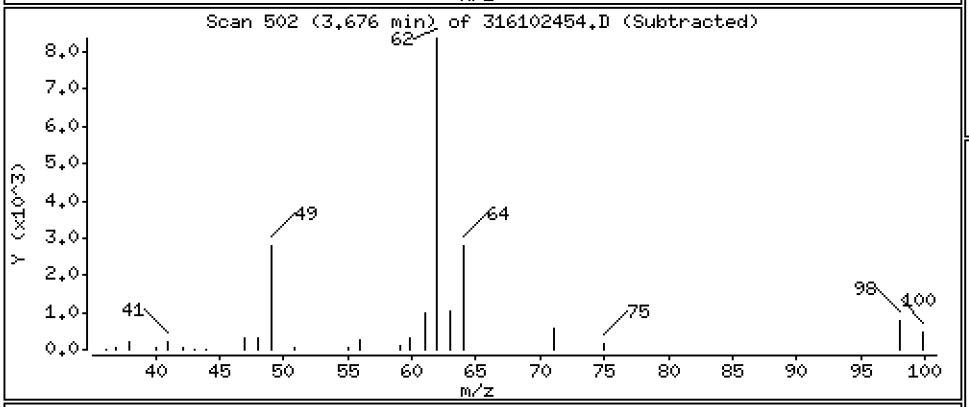
Purge Volume: 5.0 Operator: CJG

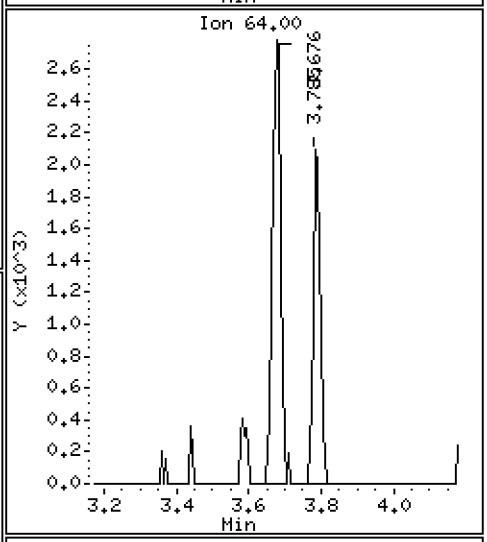
Column phase: DB-VRX Column diameter: 0.25

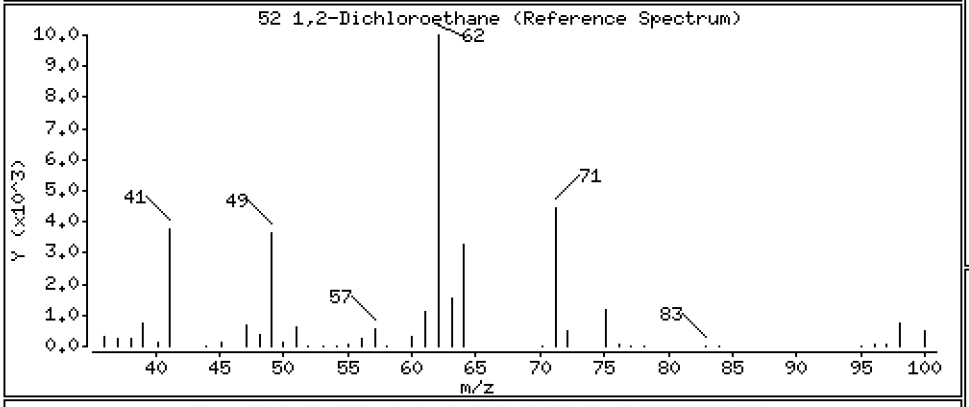
52 1,2-Dichloroethane Concentration: 1.12467 ug/L

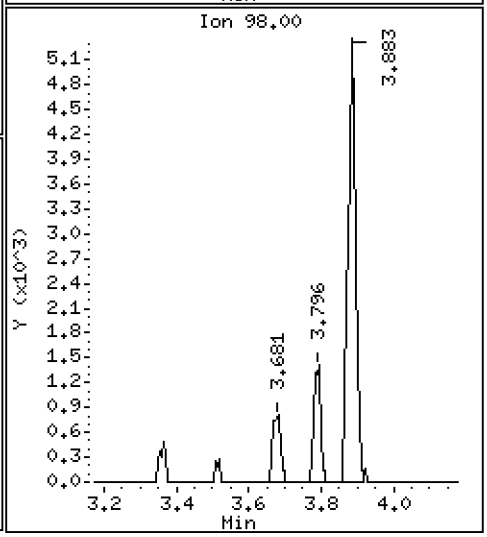


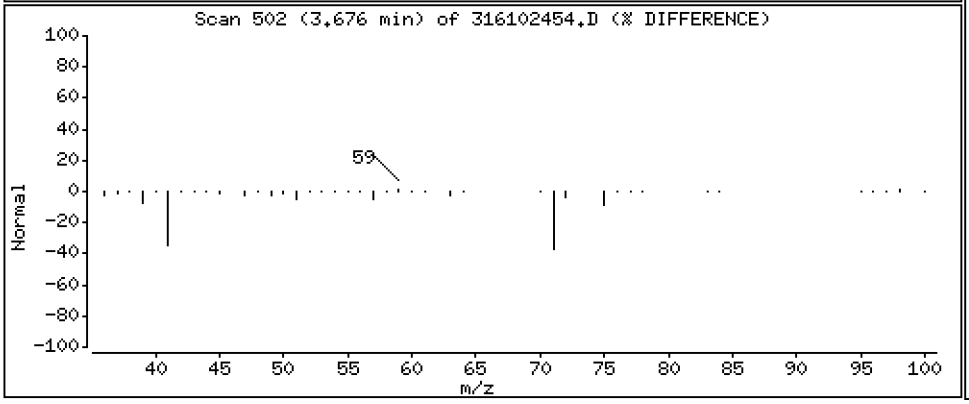












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 59

Date : 24-OCT-2016 23:46

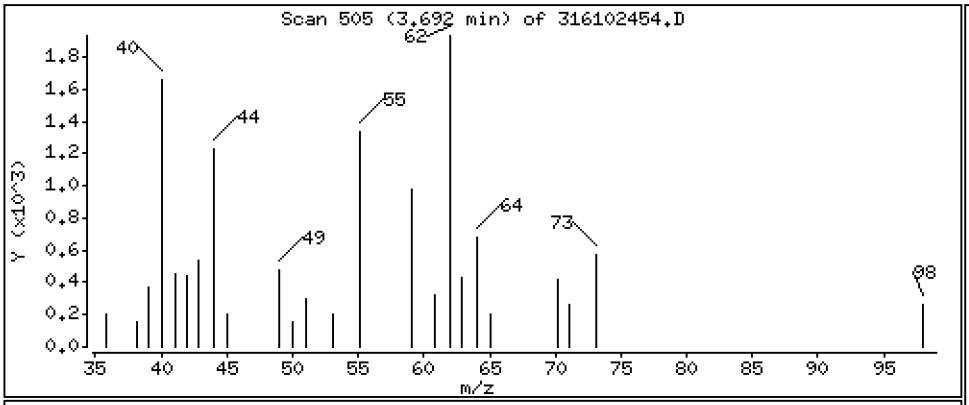
Client ID: Instrument: ms03.i

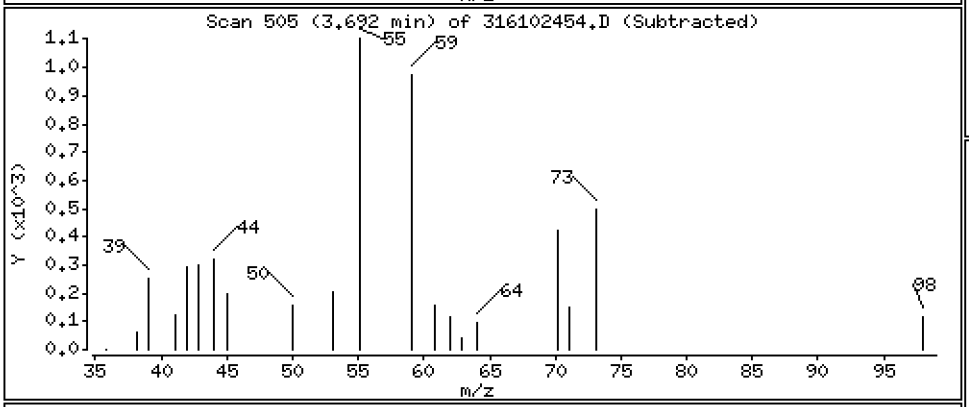
Sample Info: 1234;;1;1;1;;;

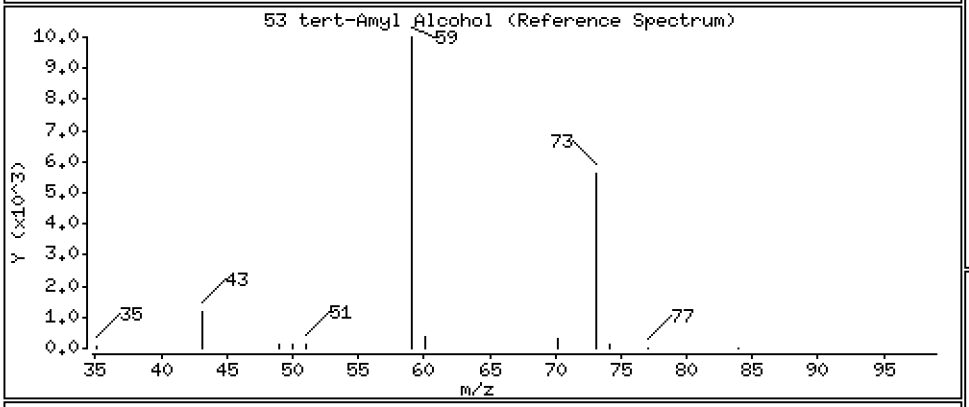
Purge Volume: 5.0 Operator: CJG

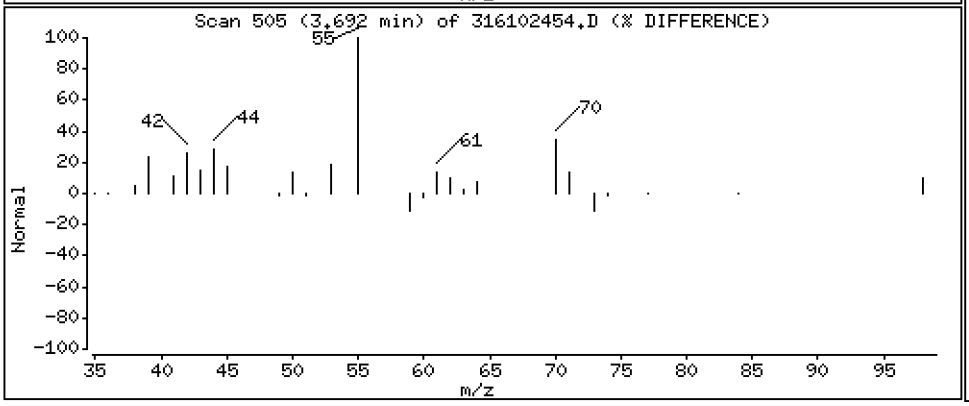
Column phase: DB-VRX Column diameter: 0.25

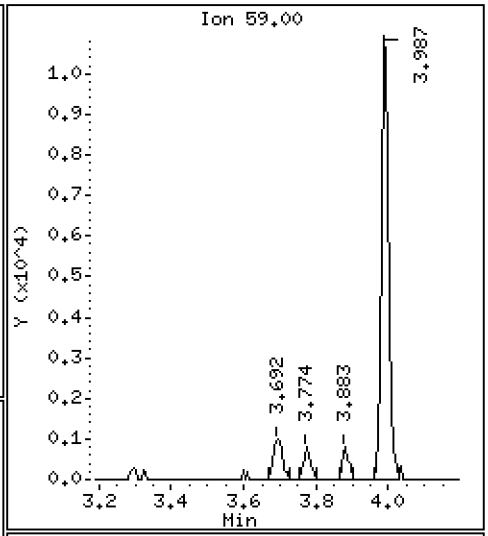
53 tert-Amyl Alcohol Concentration: 4.53623 ug/L

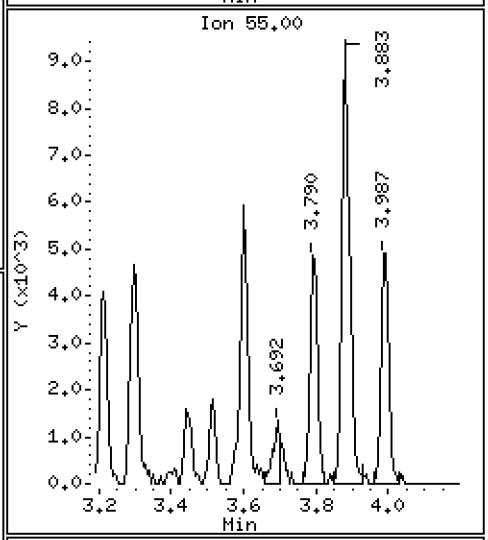


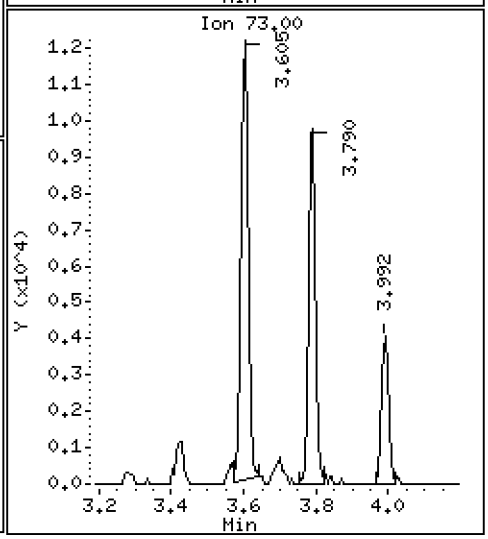












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 60

Date : 24-OCT-2016 23:46

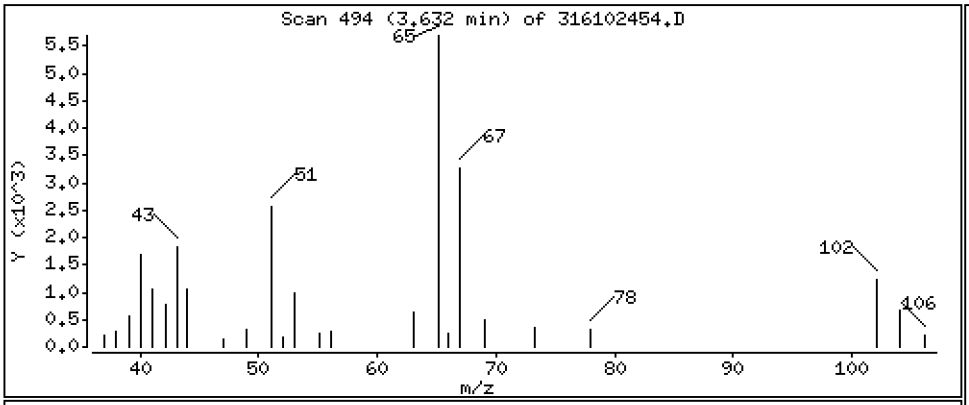
Client ID: Instrument: ms03.i

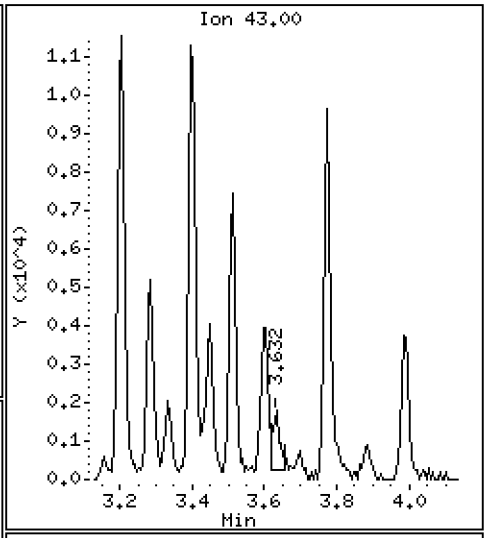
Sample Info: 1234;;1;1;1;;;

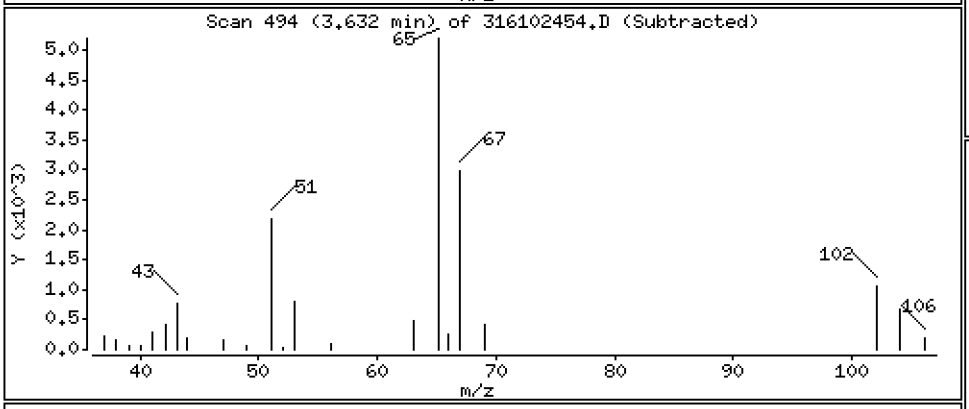
Purge Volume: 5.0 Operator: CJG

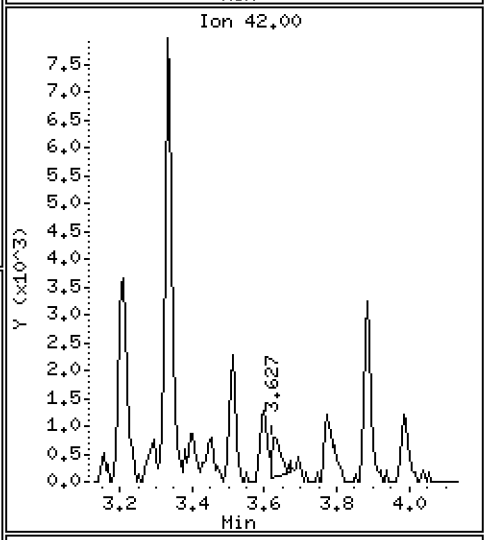
Column phase: DB-VRX Column diameter: 0.25

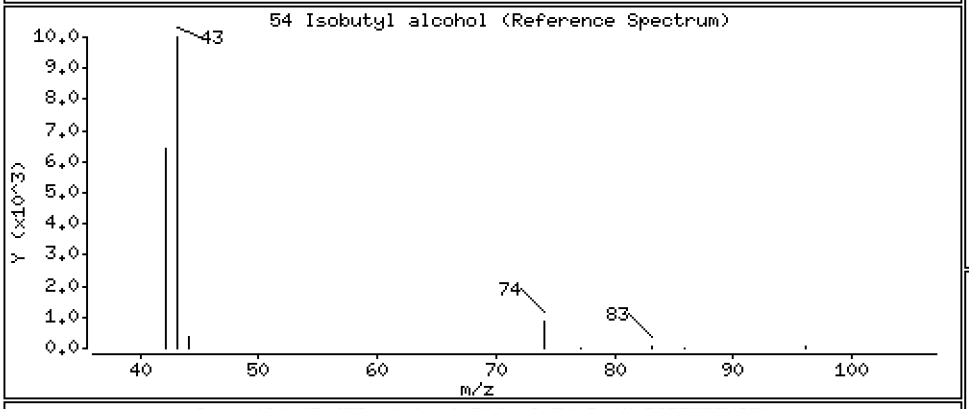
54 Isobutyl alcohol Concentration: 12.1183 ug/L

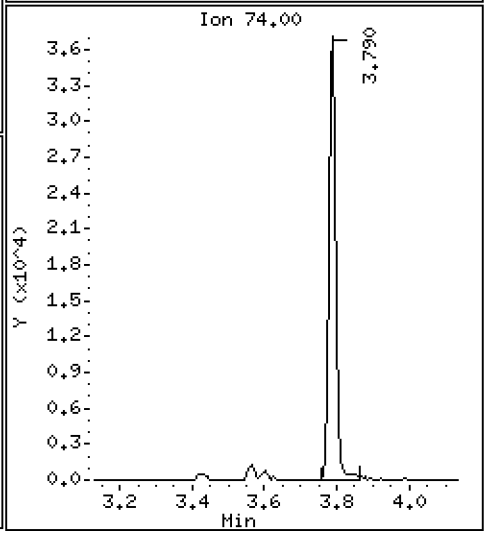


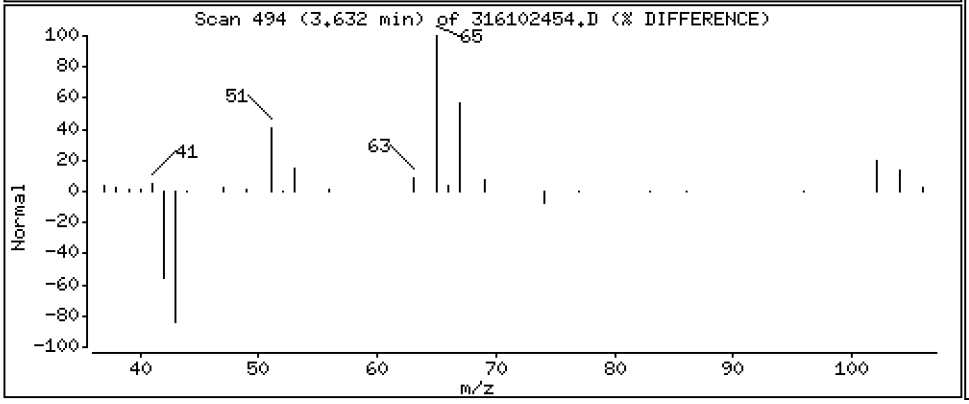












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 61

Date : 24-OCT-2016 23:46

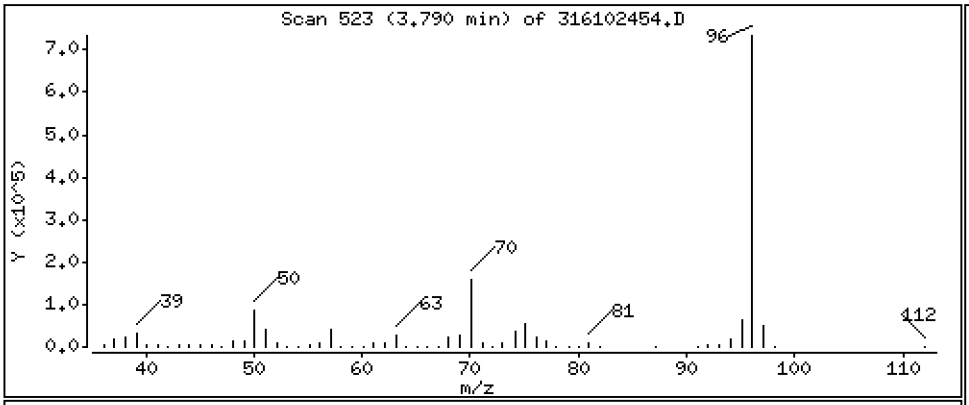
Client ID: Instrument: ms03.i

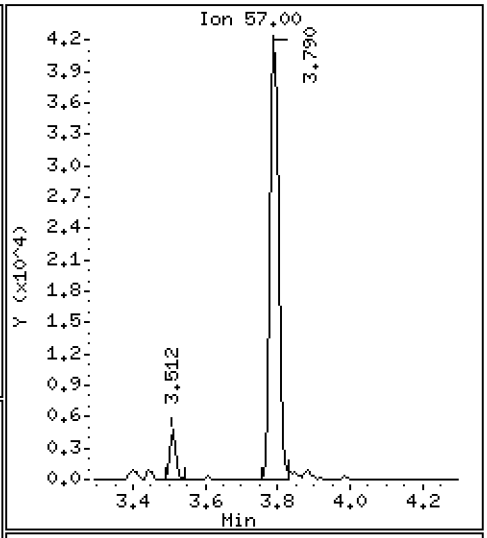
Sample Info: 1234;;1;1;1;;;

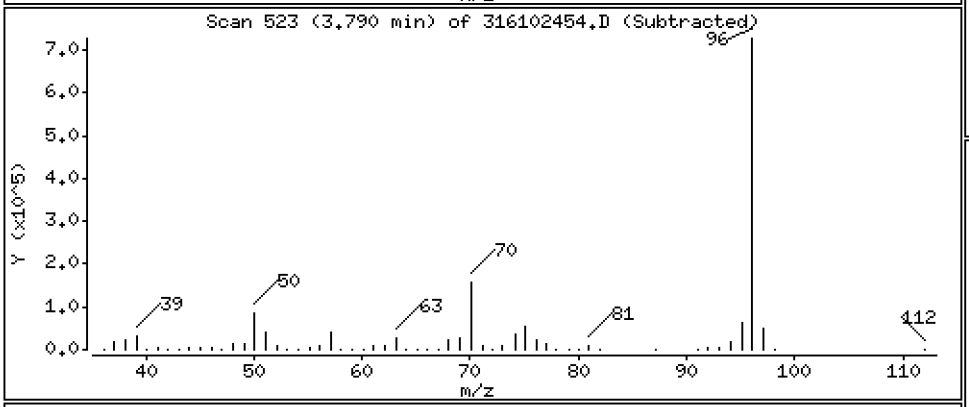
Purge Volume: 5.0 Operator: CJG

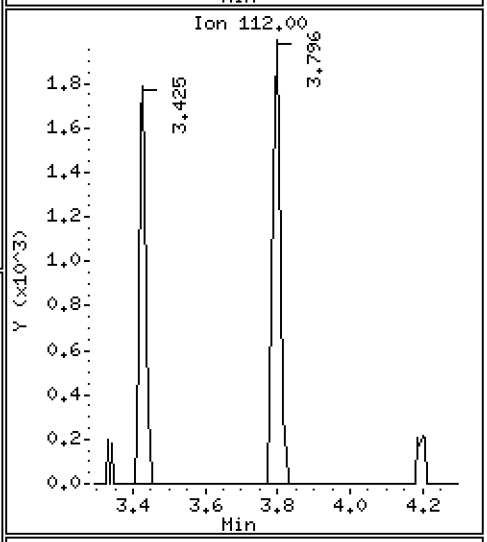
Column phase: DB-VRX Column diameter: 0.25

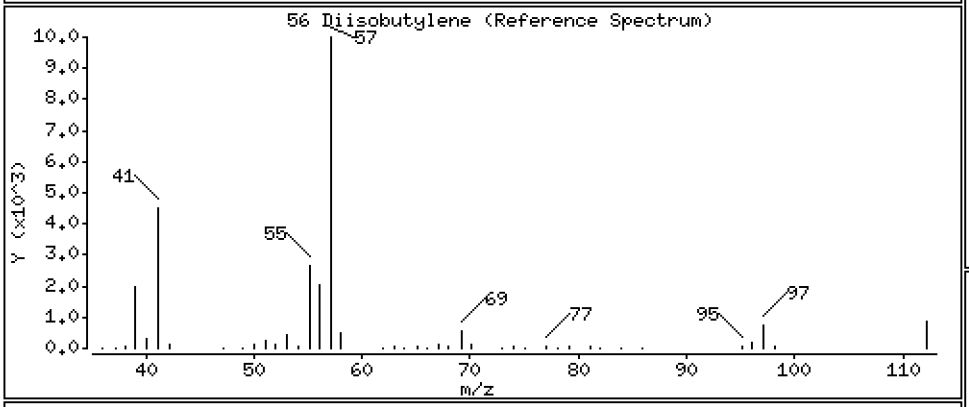
56 Diisobutylene Concentration: 2.98675 ug/L

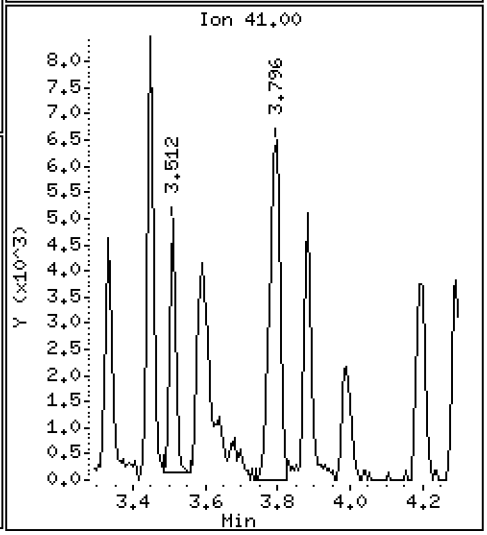


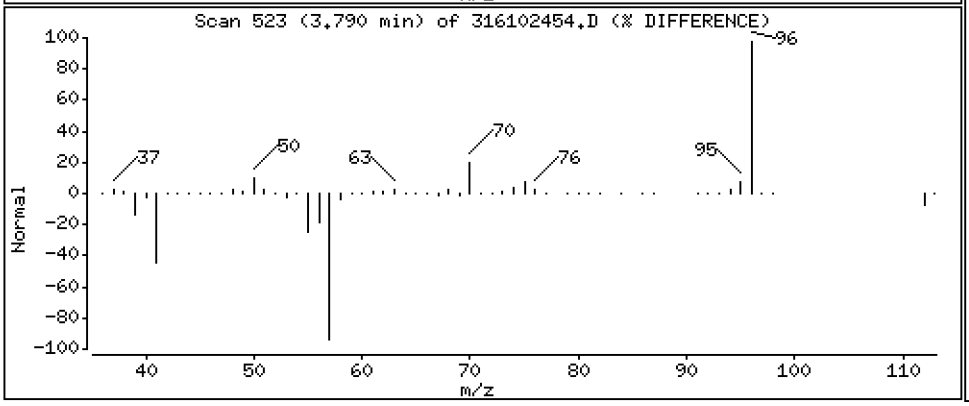












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 62

Date : 24-OCT-2016 23:46

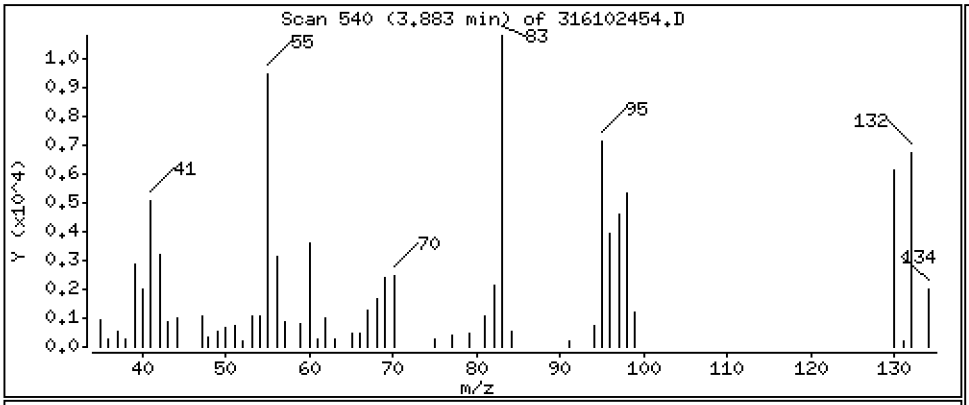
Client ID: Instrument: ms03.i

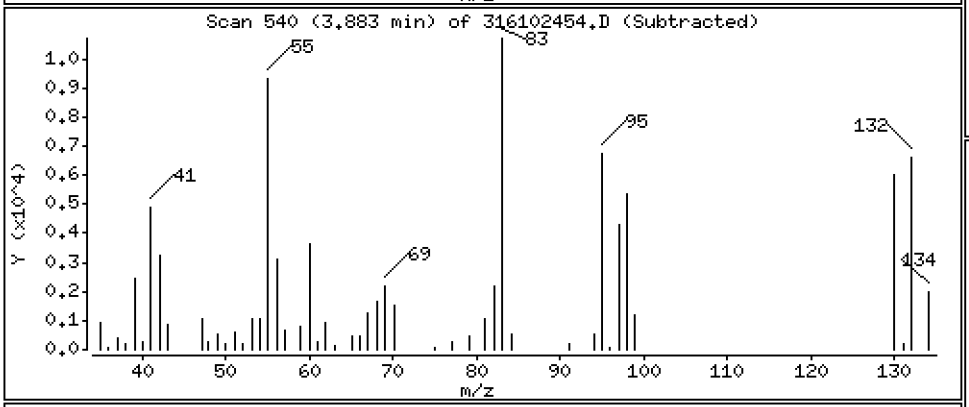
Sample Info: 1234;;1;1;1;;;

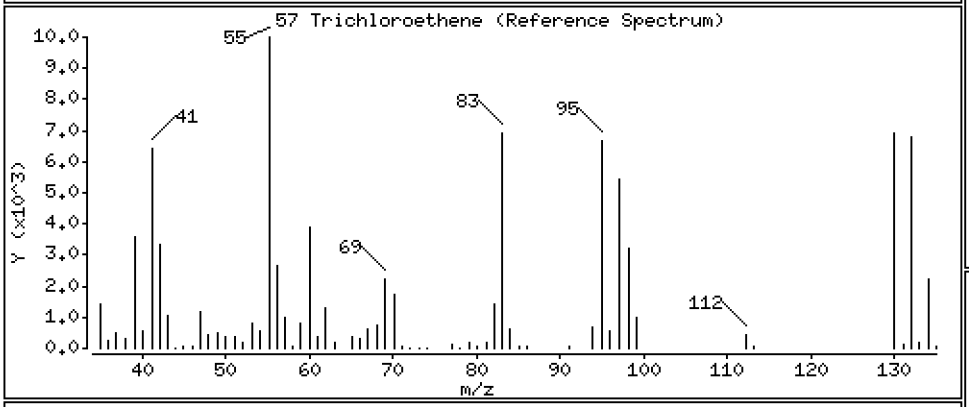
Purge Volume: 5.0 Operator: CJG

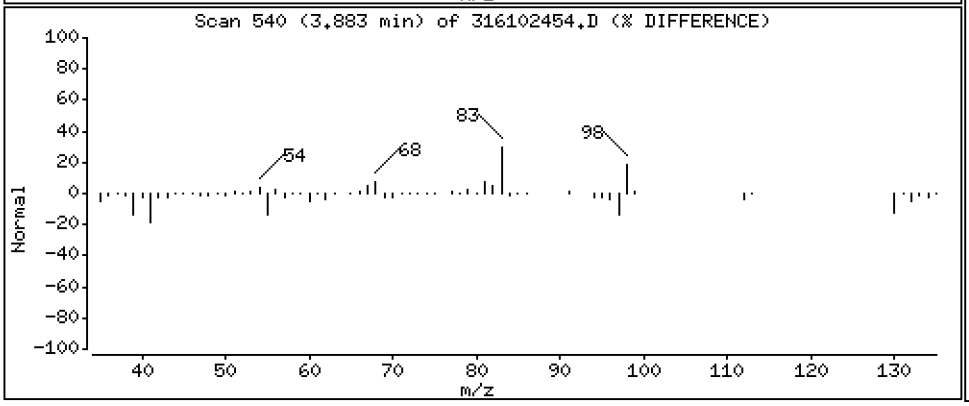
Column phase: DB-VRX Column diameter: 0.25

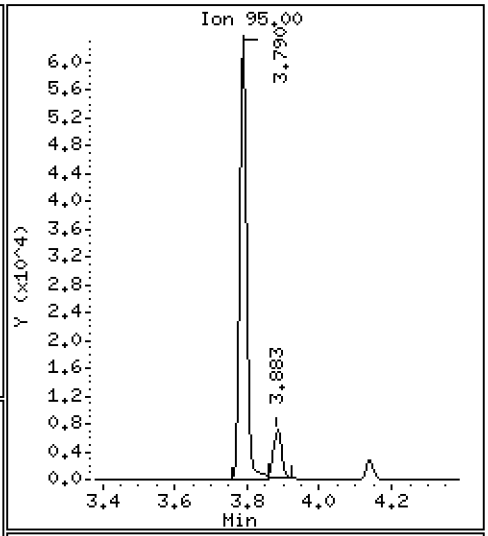
57 Trichloroethene Concentration: 1.28343 ug/L

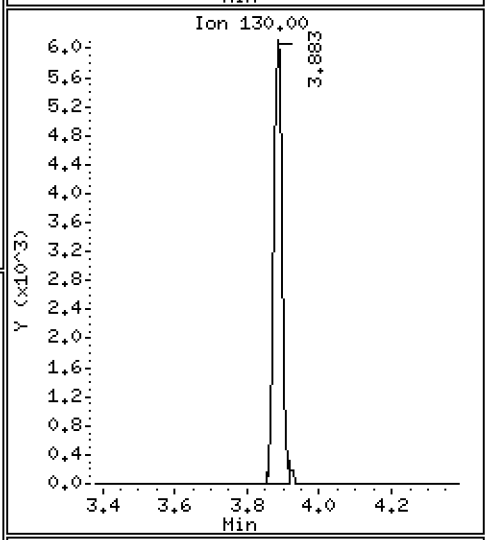


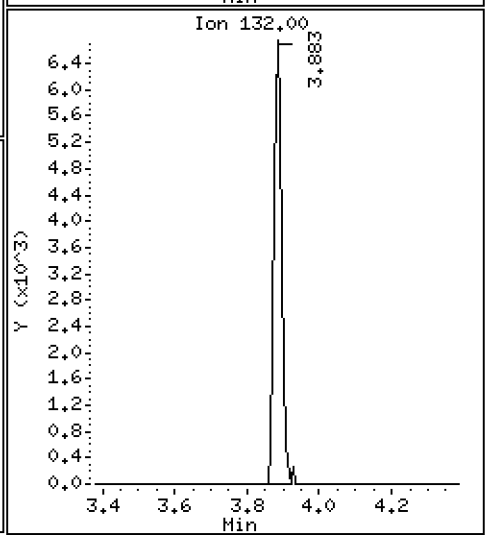












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 63

Date : 24-OCT-2016 23:46

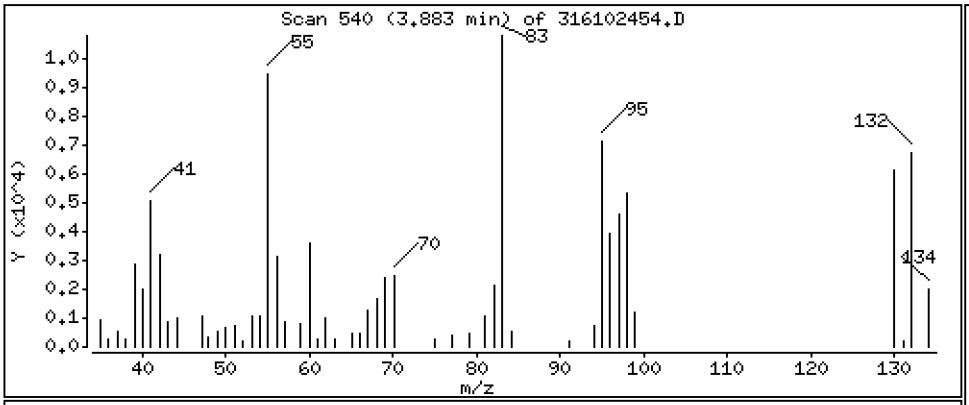
Client ID: Instrument: ms03.i

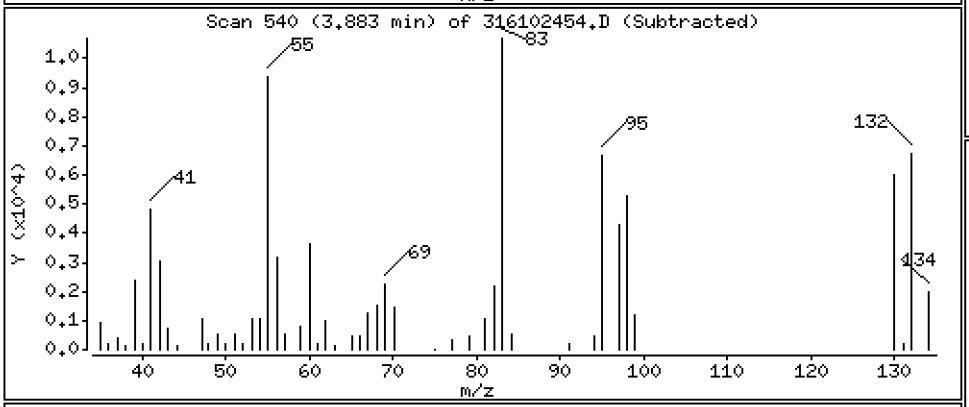
Sample Info: 1234;;1;1;1;;;

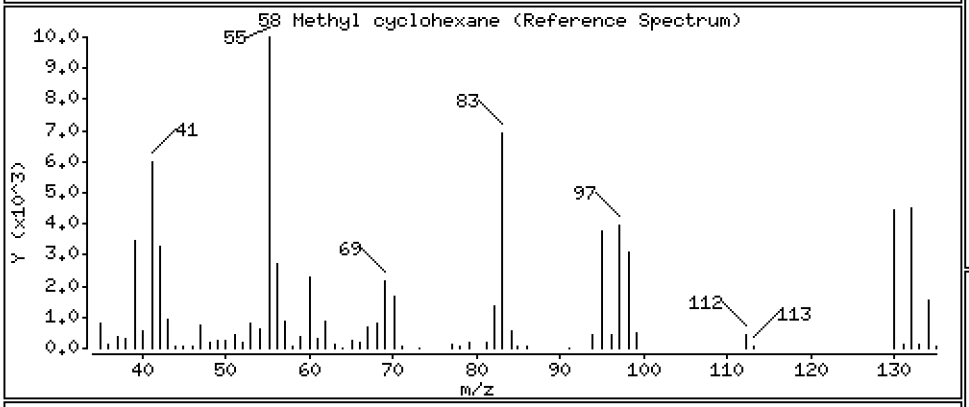
Purge Volume: 5.0 Operator: CJG

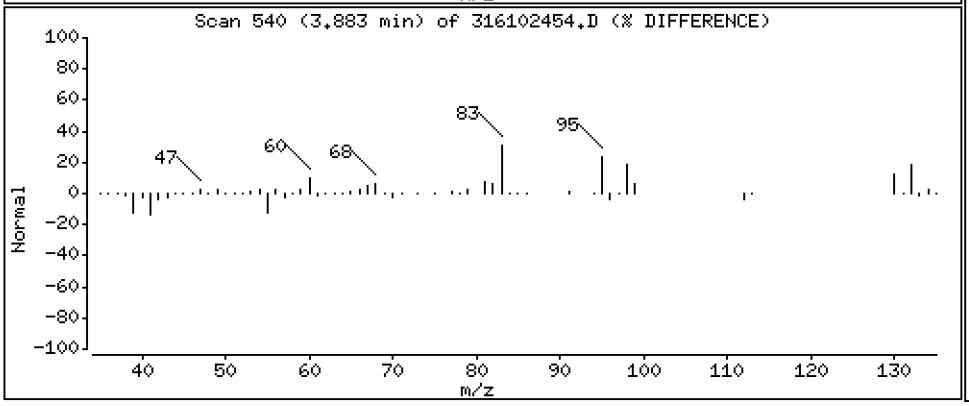
Column phase: DB-VRX Column diameter: 0.25

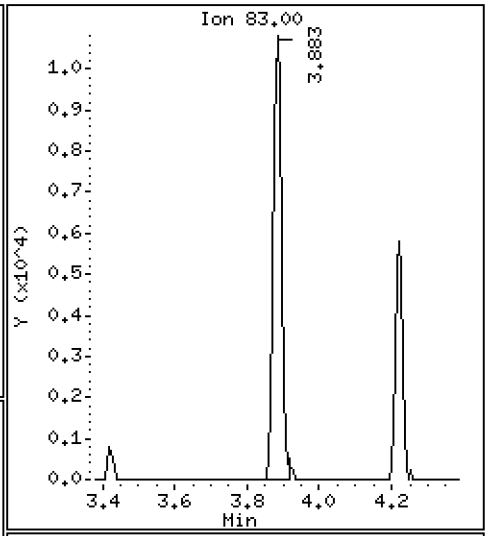
58 Methyl cyclohexane Concentration: 1.32866 ug/L

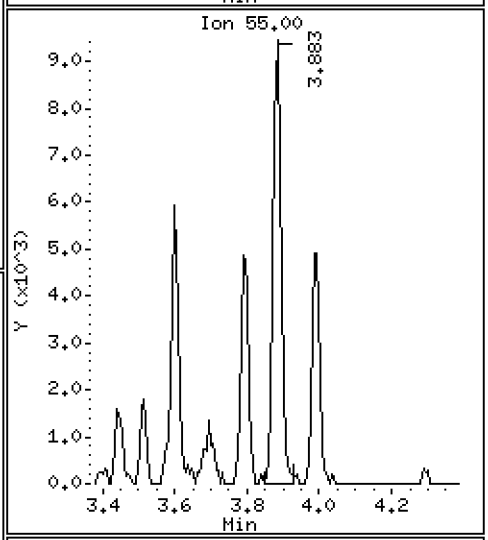


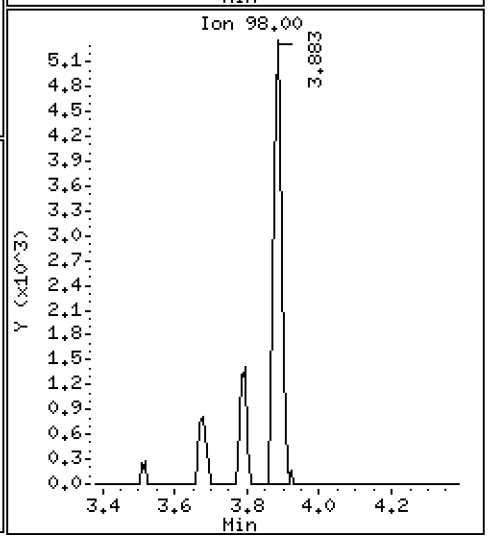












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 64

Date : 24-OCT-2016 23:46

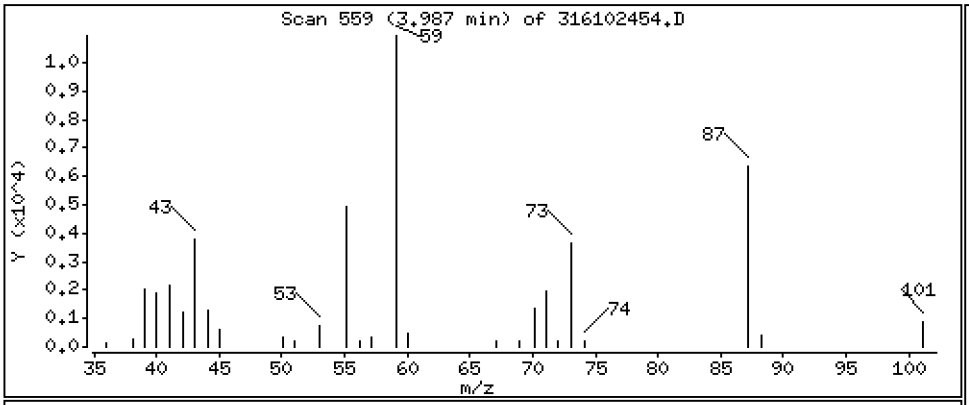
Client ID: Instrument: ms03.i

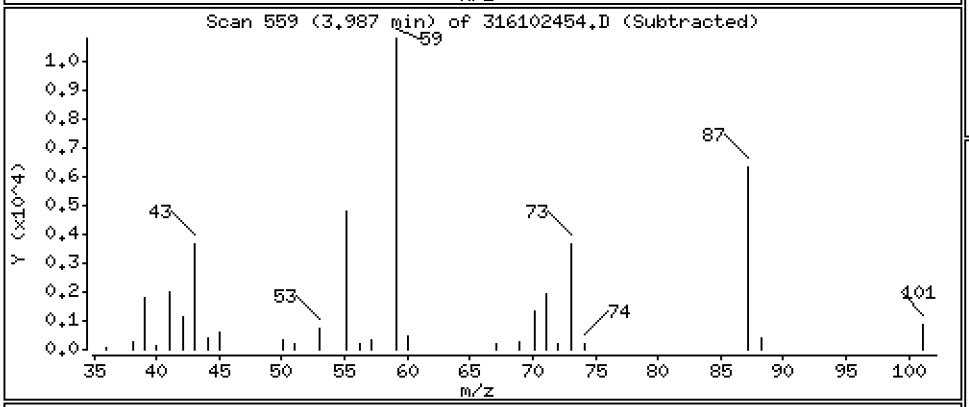
Sample Info: 1234;;1;1;1;;;

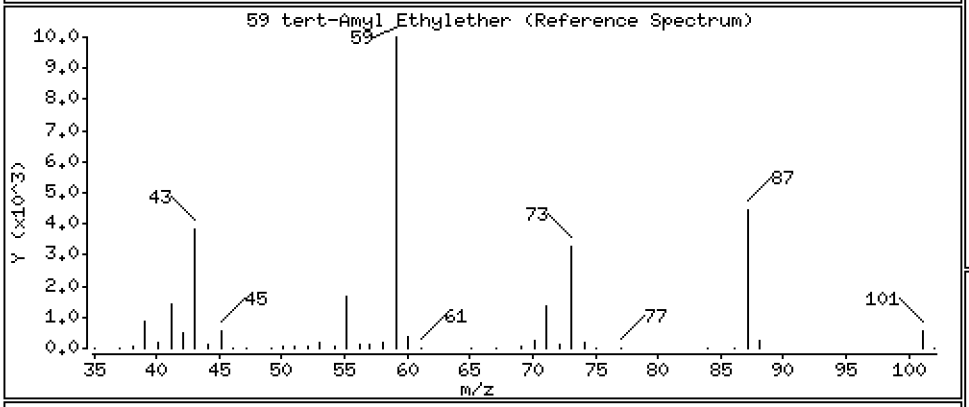
Purge Volume: 5.0 Operator: CJG

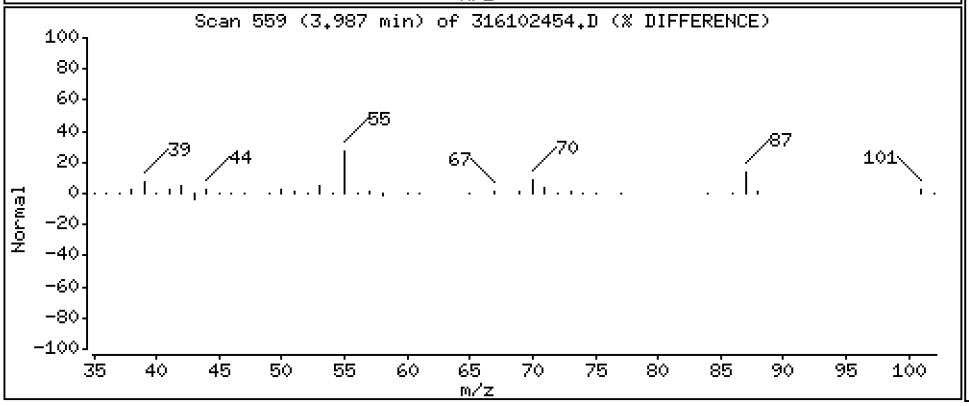
Column phase: DB-VRX Column diameter: 0.25

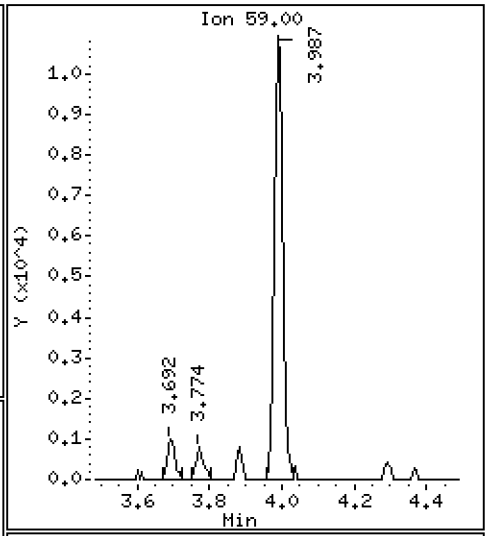
59 tert-Amyl Ethylether Concentration: 0.904491 ug/L

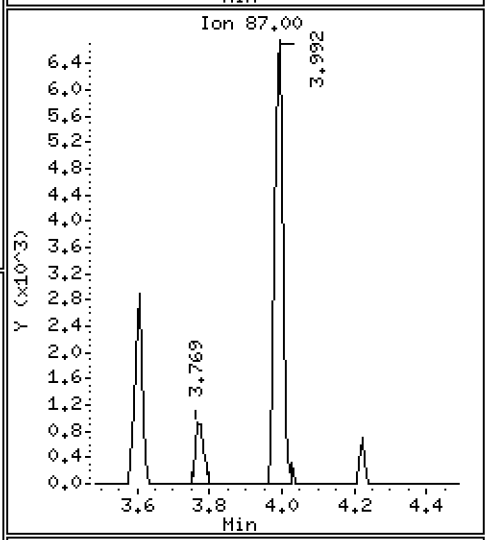


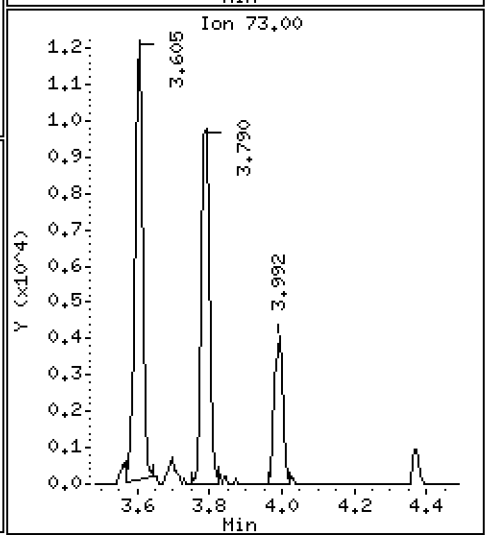












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 65

Date : 24-OCT-2016 23:46

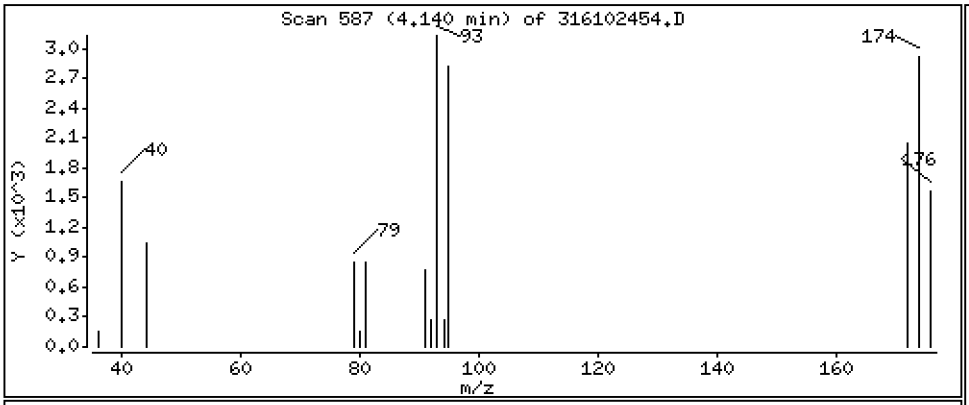
Client ID: Instrument: ms03.i

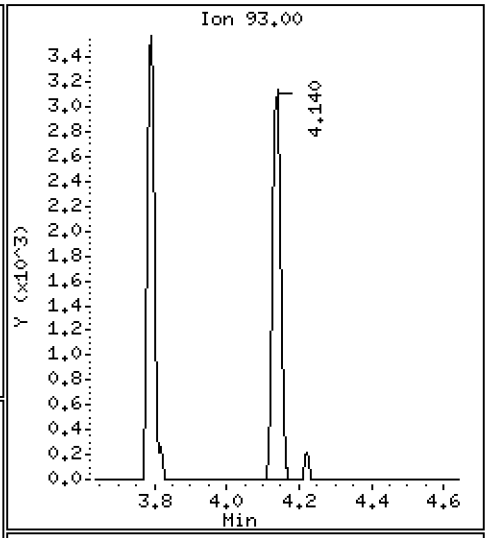
Sample Info: 1234;;1;1;1;;;

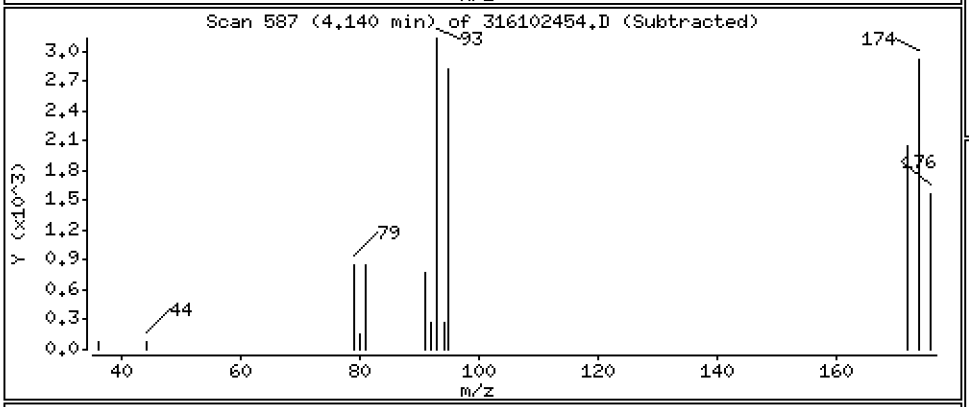
Purge Volume: 5.0 Operator: CJG

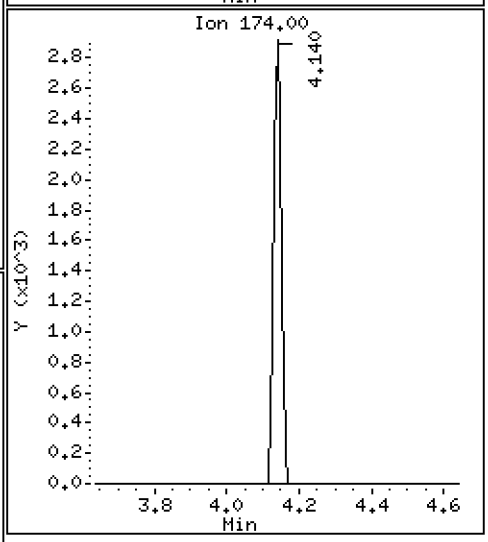
Column phase: DB-VRX Column diameter: 0.25

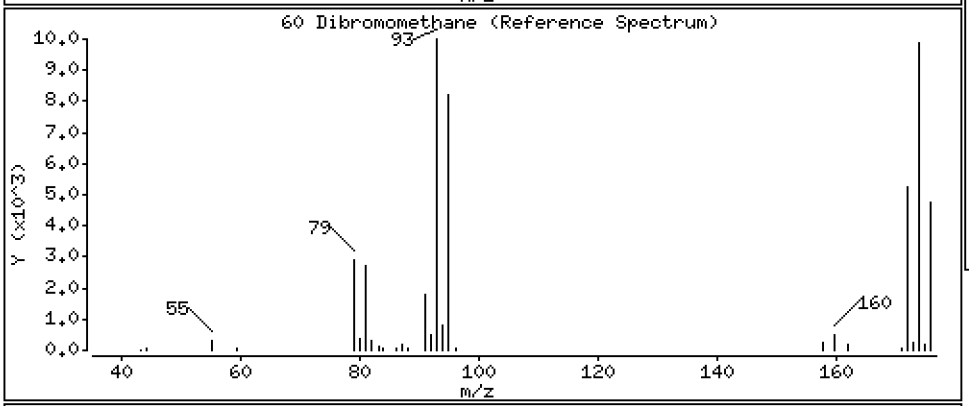
60 Dibromomethane Concentration: 1.00138 ug/L

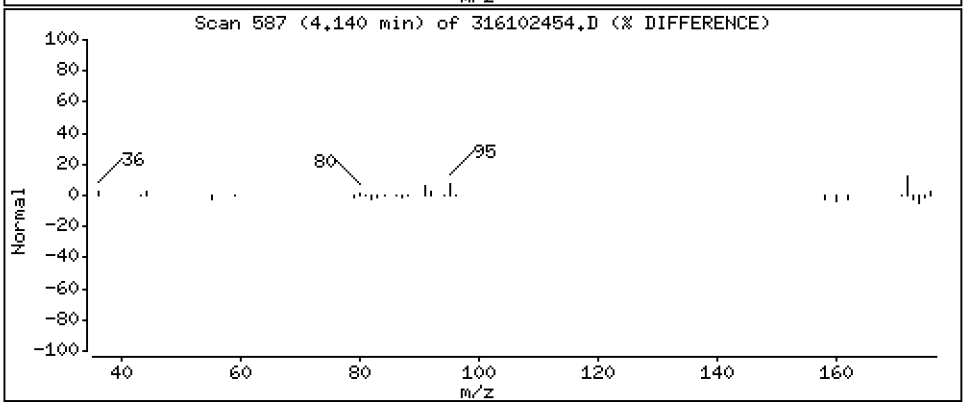












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 66

Date : 24-OCT-2016 23:46

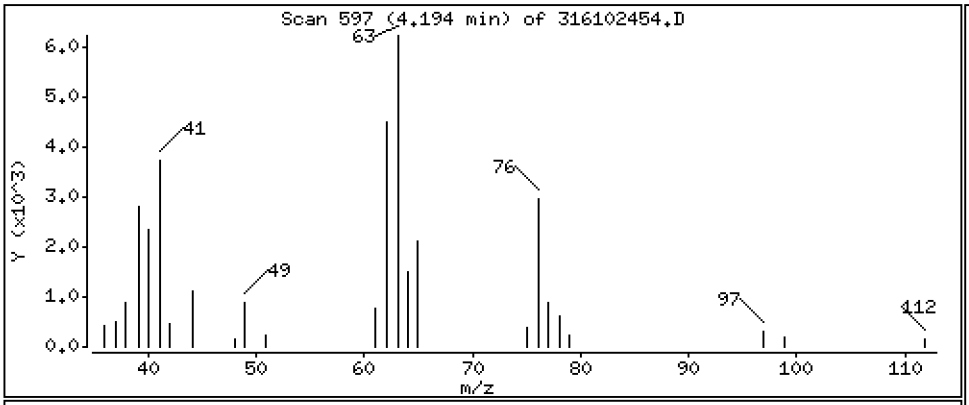
Client ID: Instrument: ms03.i

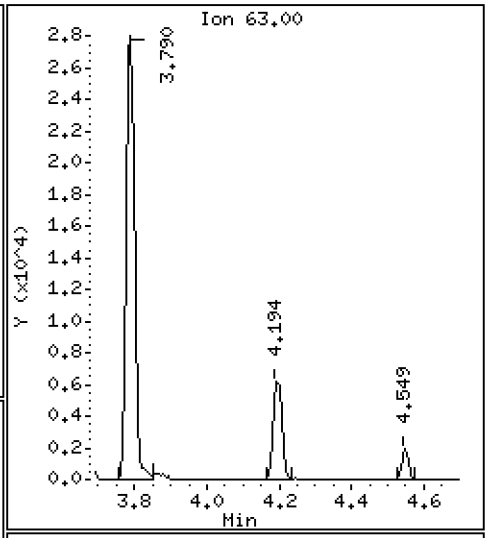
Sample Info: 1234;;1;1;1;;;

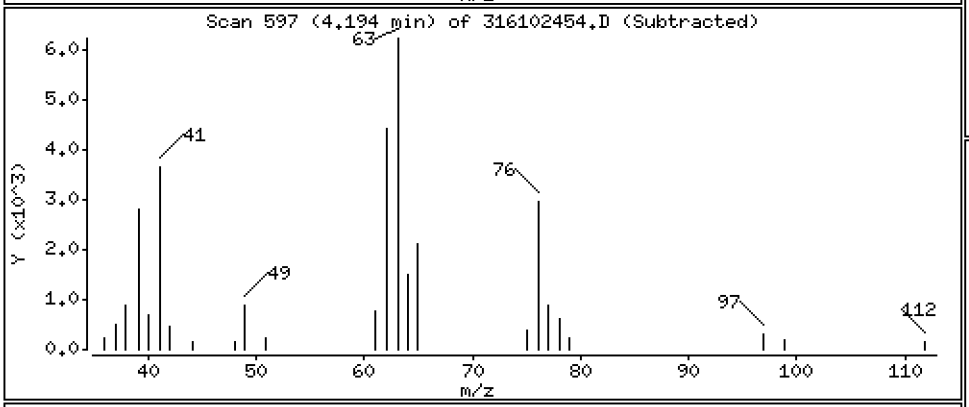
Purge Volume: 5.0 Operator: CJG

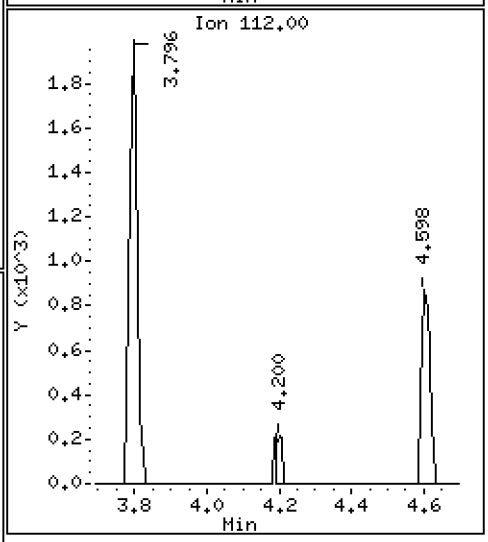
Column phase: DB-VRX Column diameter: 0.25

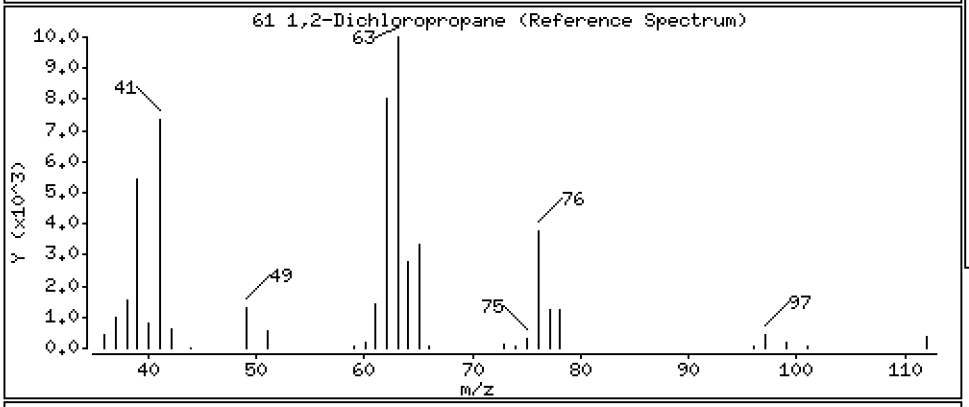
61 1,2-Dichloropropane Concentration: 1.05159 ug/L

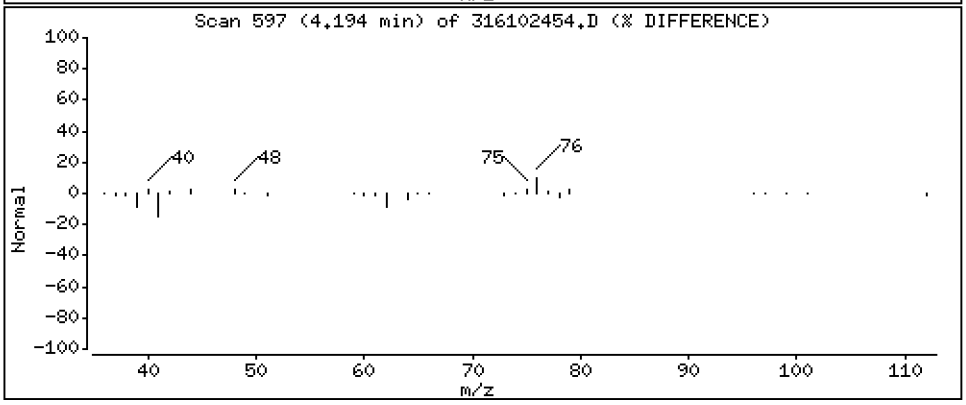












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 67

Date : 24-OCT-2016 23:46

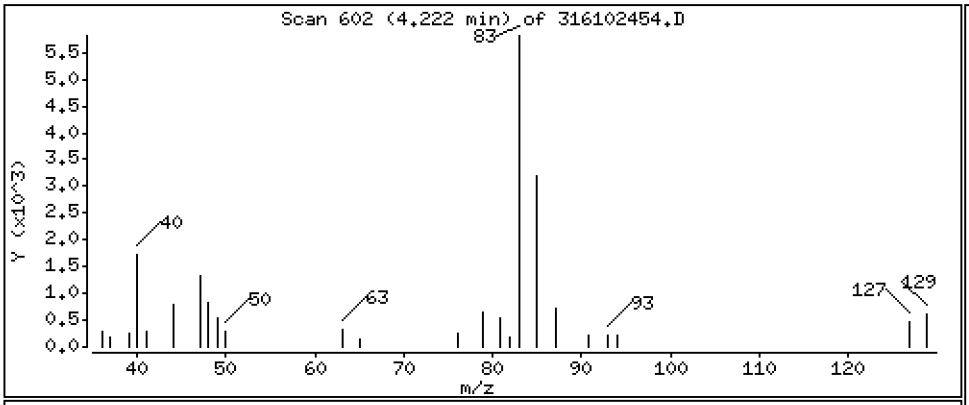
Client ID: Instrument: ms03.i

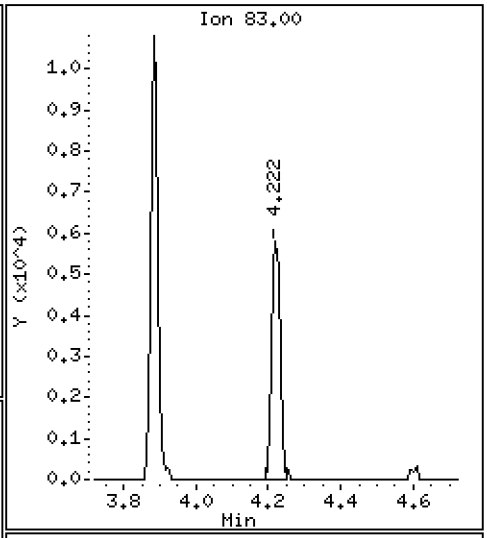
Sample Info: 1234;;1;1;1;;;

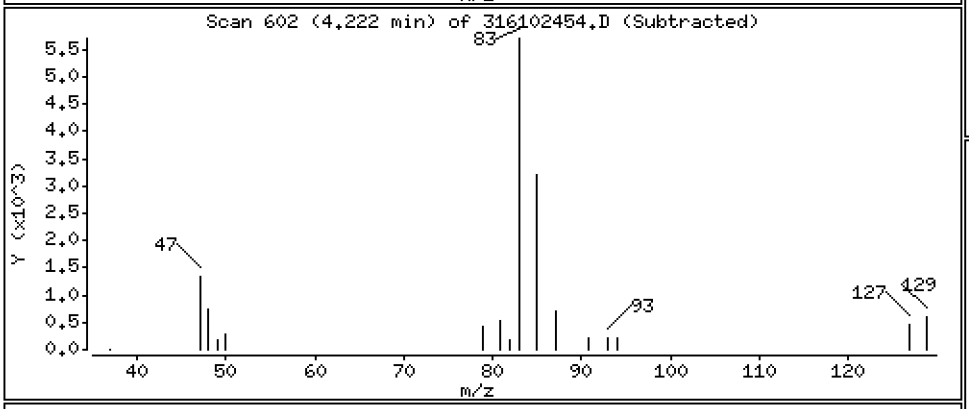
Purge Volume: 5.0 Operator: CJG

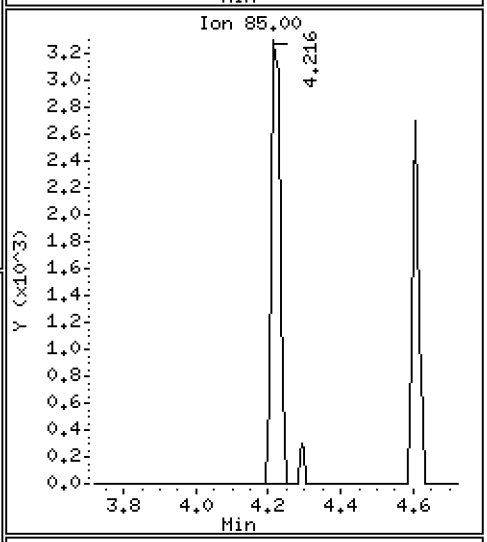
Column phase: DB-VRX Column diameter: 0.25

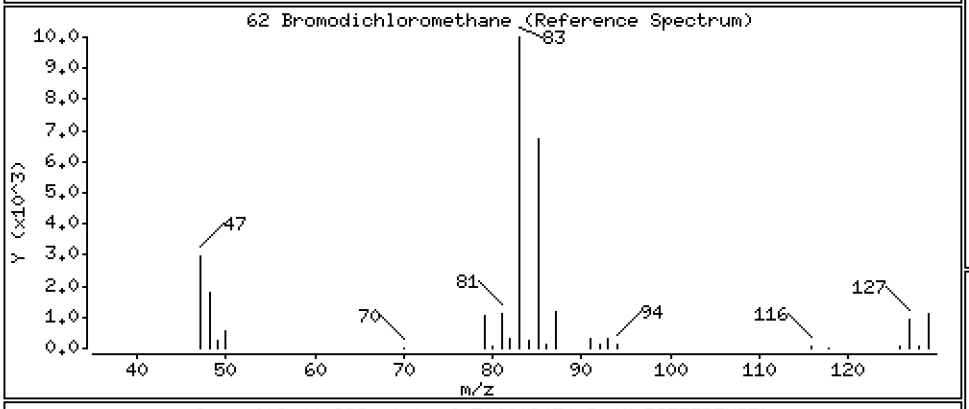
62 Bromodichloromethane Concentration: 0.898278 ug/L

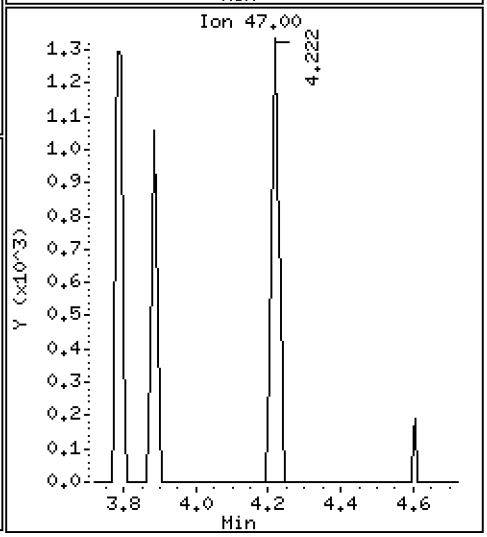


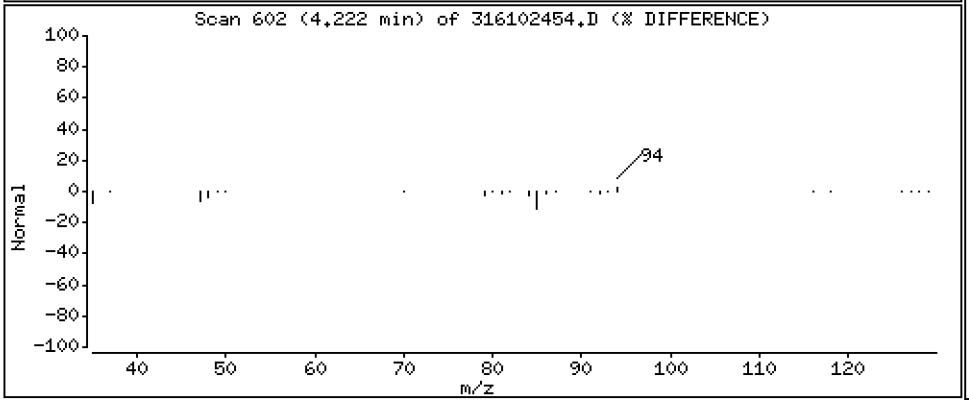












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 68

Date : 24-OCT-2016 23:46

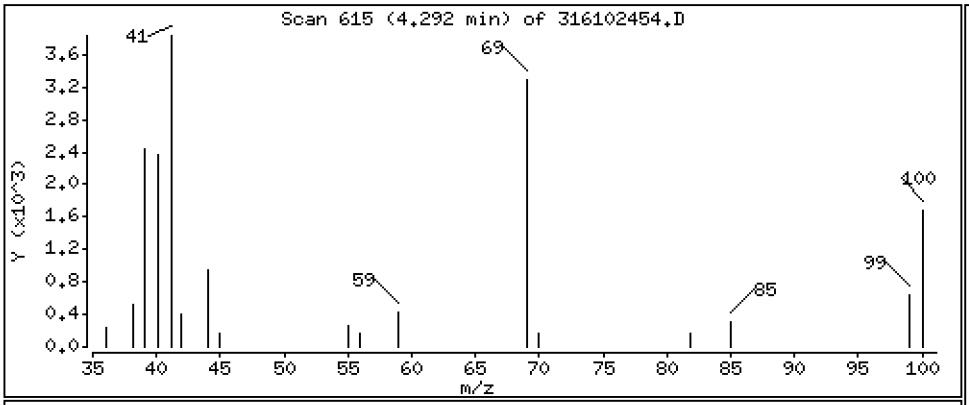
Client ID: Instrument: ms03.i

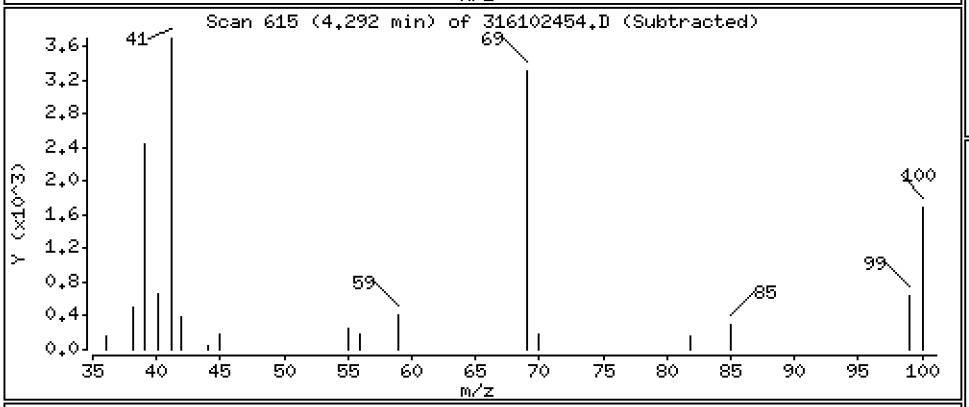
Sample Info: 1234;;1;1;1;;;

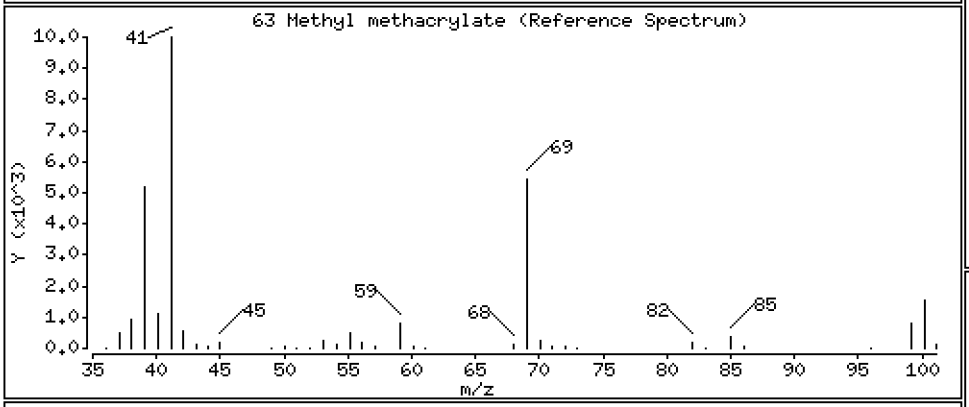
Purge Volume: 5.0 Operator: CJG

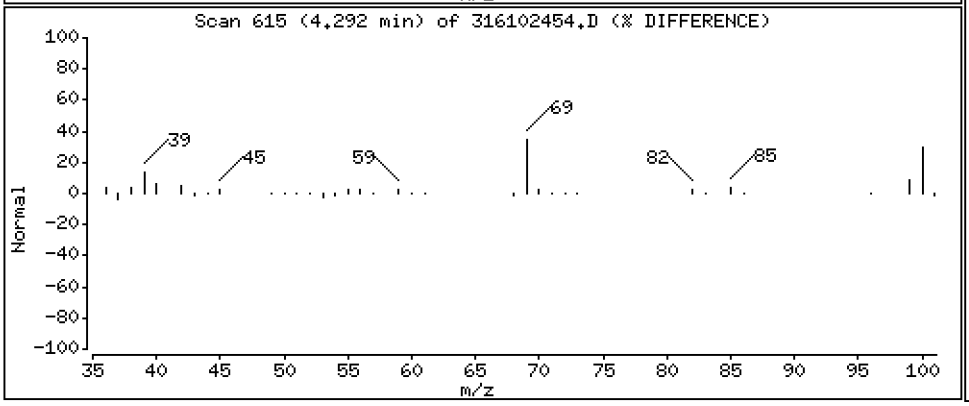
Column phase: DB-VRX Column diameter: 0.25

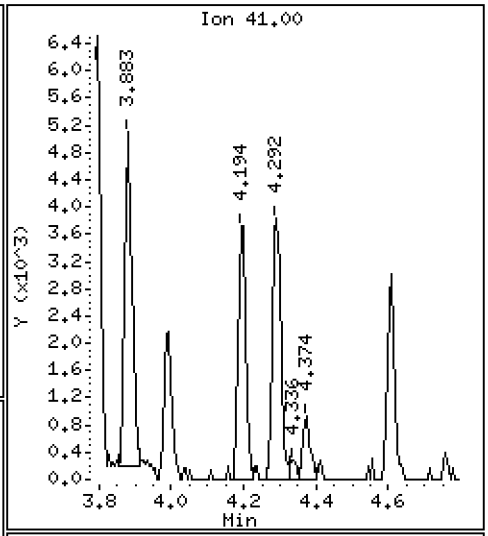
63 Methyl methacrylate Concentration: 0.842816 ug/L

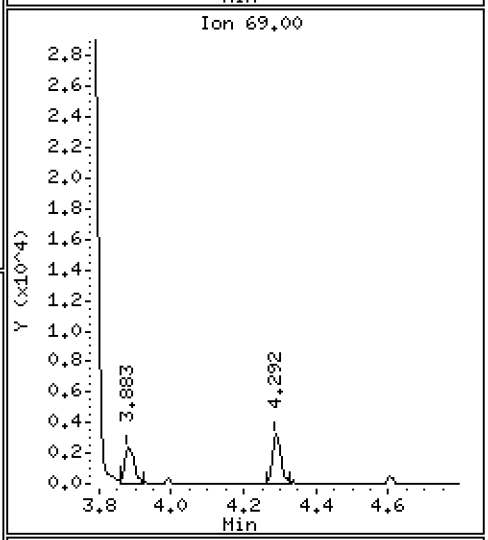


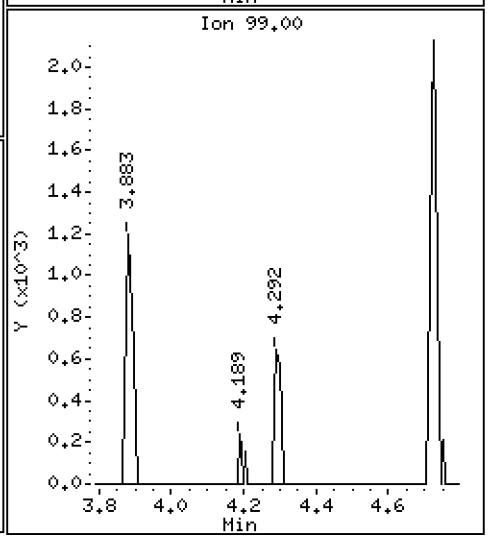












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 69

Date : 24-OCT-2016 23:46

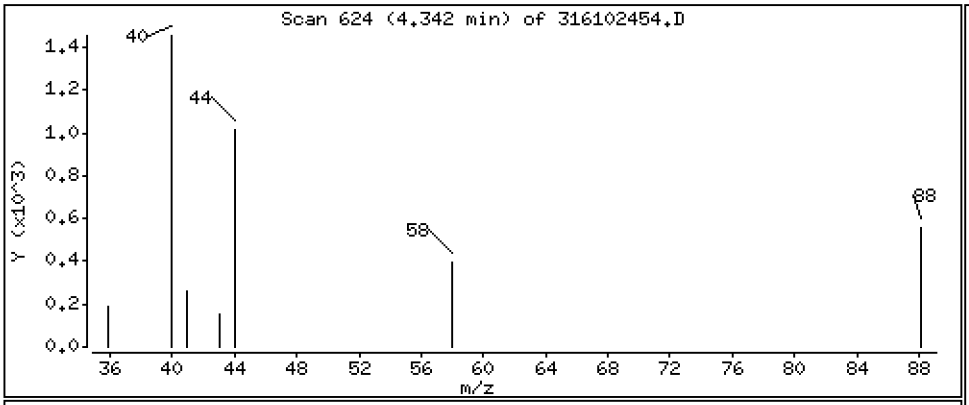
Client ID: Instrument: ms03.i

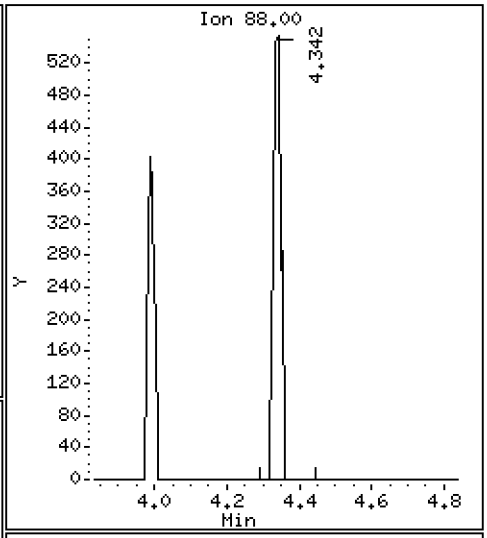
Sample Info: 1234;;1;1;1;;;

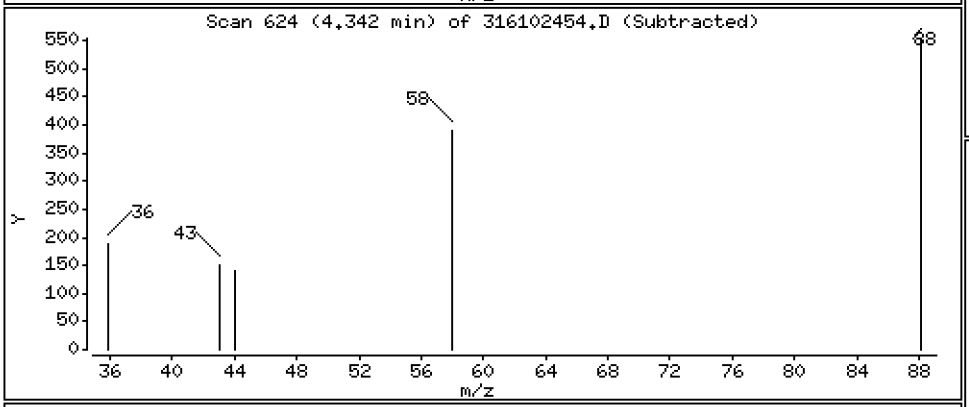
Purge Volume: 5.0 Operator: CJG

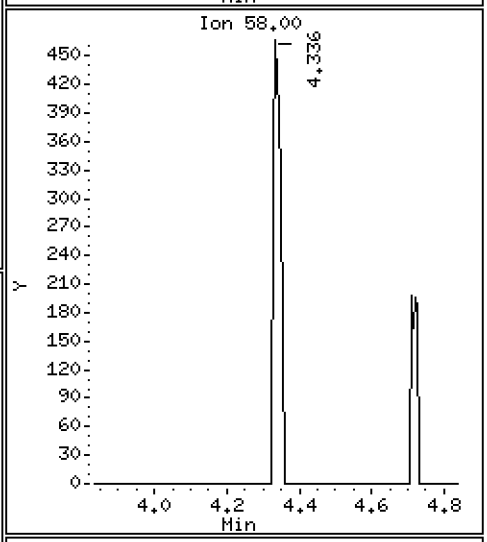
Column phase: DB-VRX Column diameter: 0.25

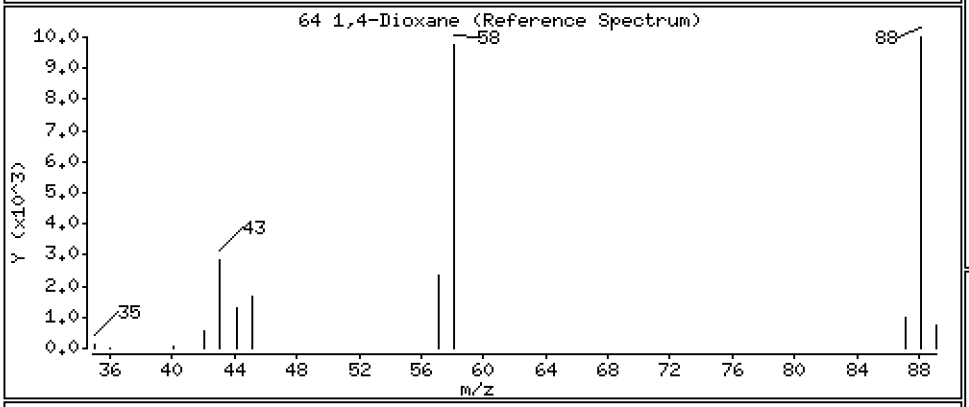
64 1,4-Dioxane Concentration: 21.8040 ug/L

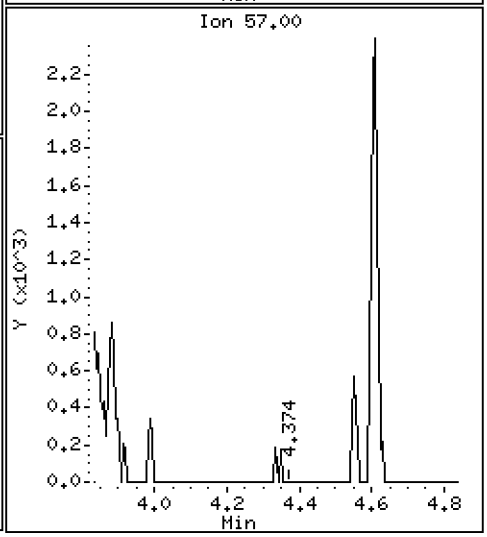


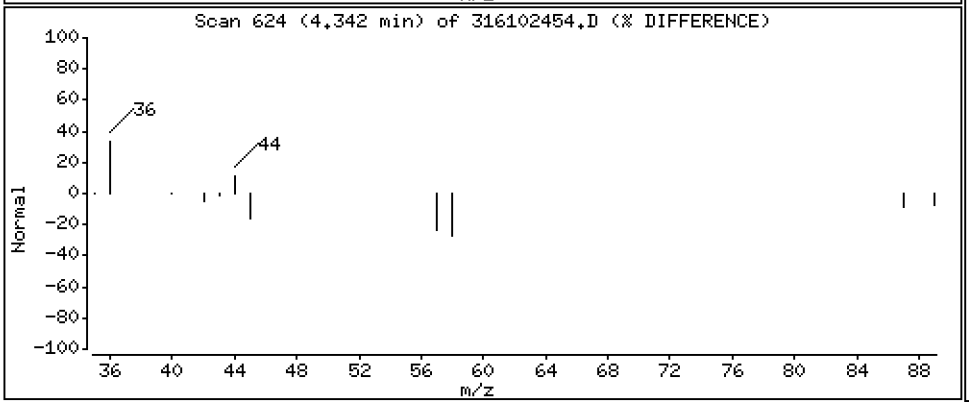












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 70

Date : 24-OCT-2016 23:46

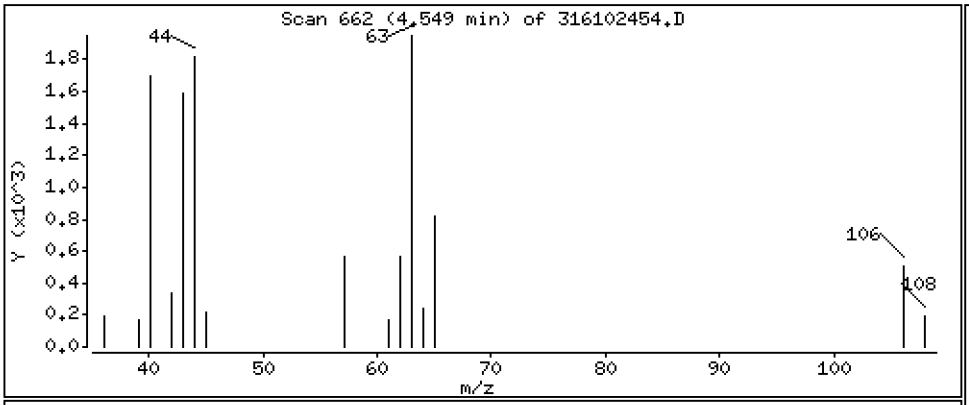
Client ID: Instrument: ms03.i

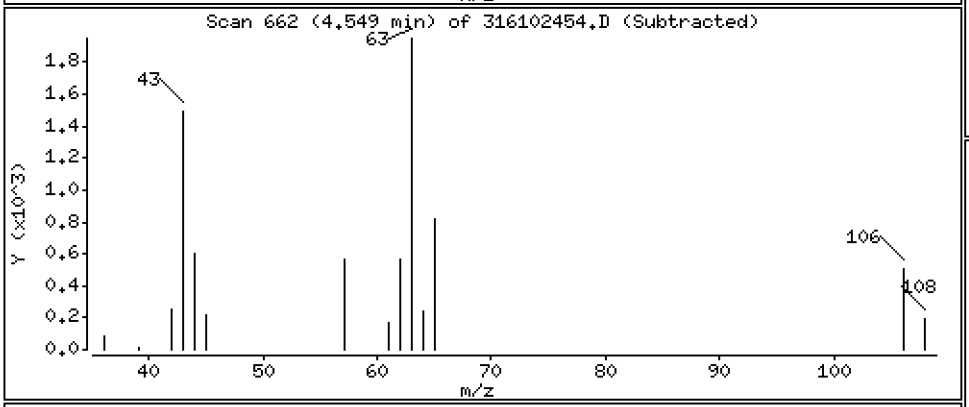
Sample Info: 1234;;1;1;1;;;

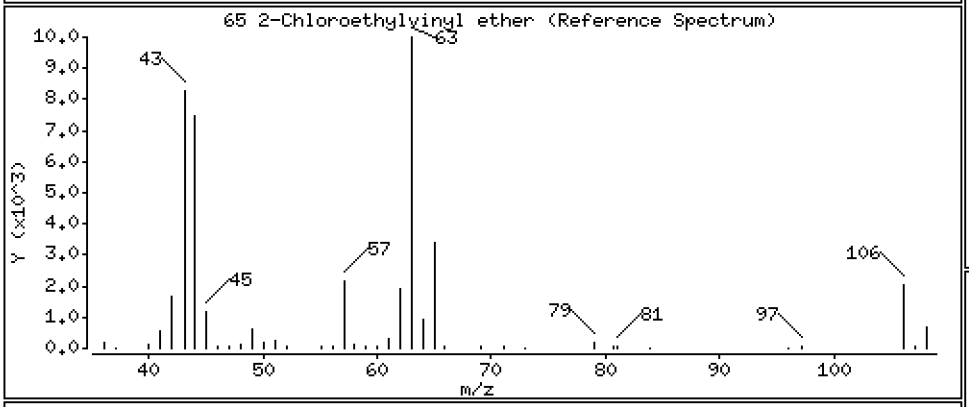
Purge Volume: 5.0 Operator: CJG

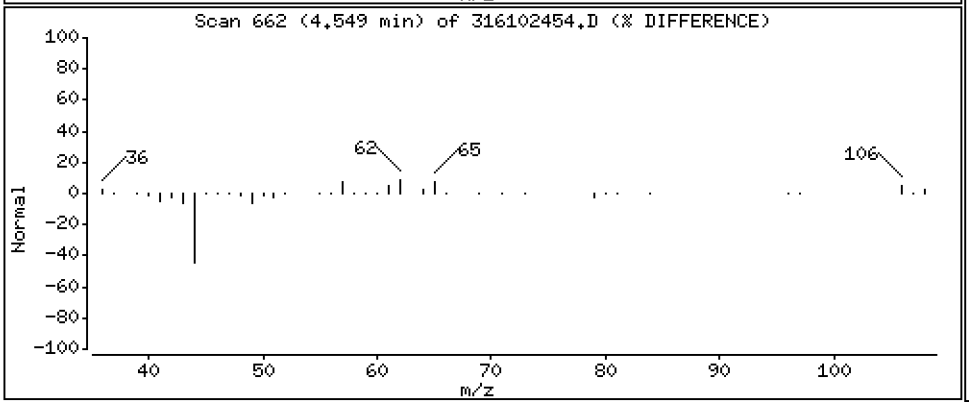
Column phase: DB-VRX Column diameter: 0.25

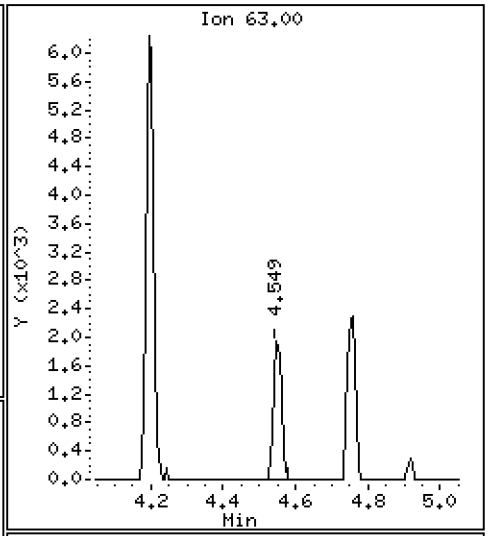
65 2-Chloroethylvinyl ether Concentration: 0.660755 ug/L

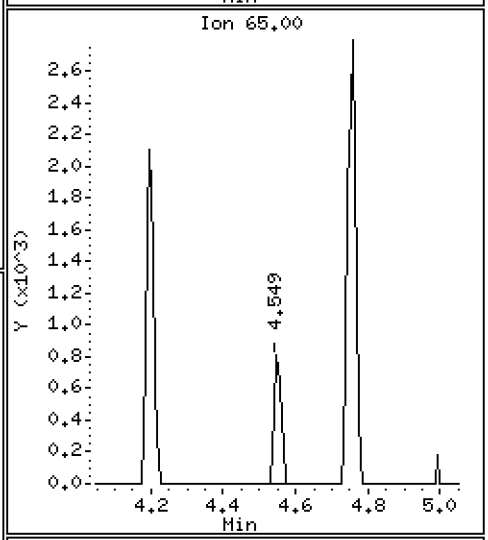


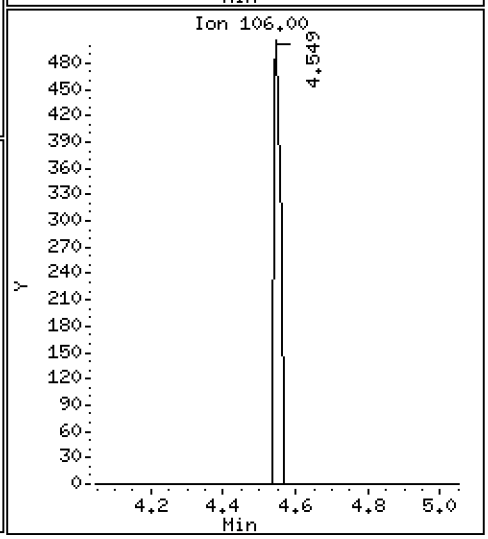












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 71

Date : 24-OCT-2016 23:46

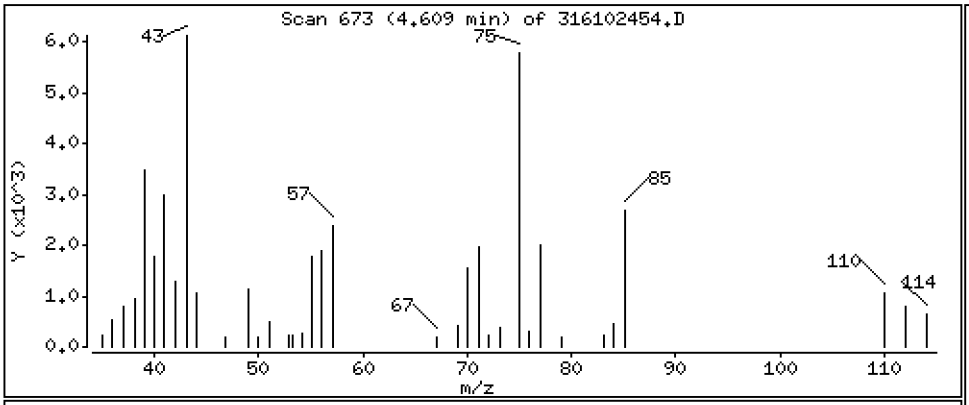
Client ID: Instrument: ms03.i

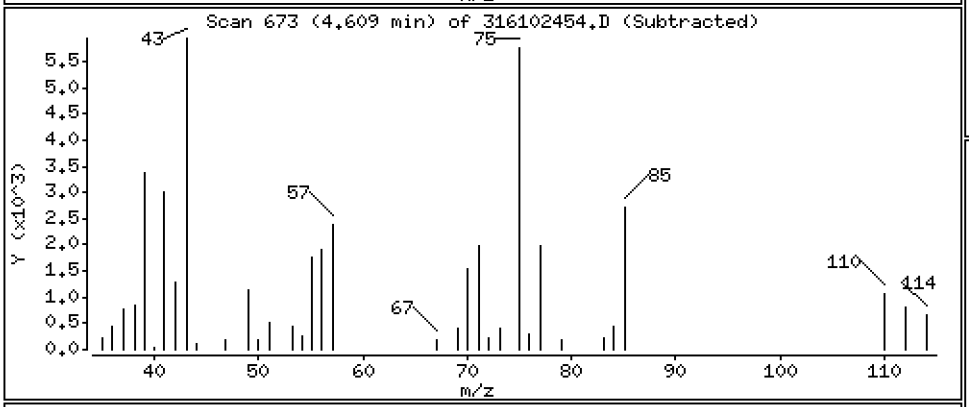
Sample Info: 1234;;1;1;1;;;

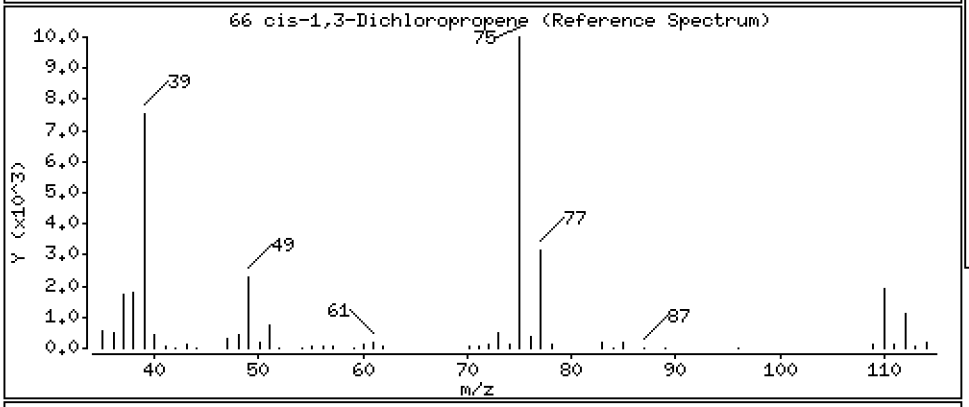
Purge Volume: 5.0 Operator: CJG

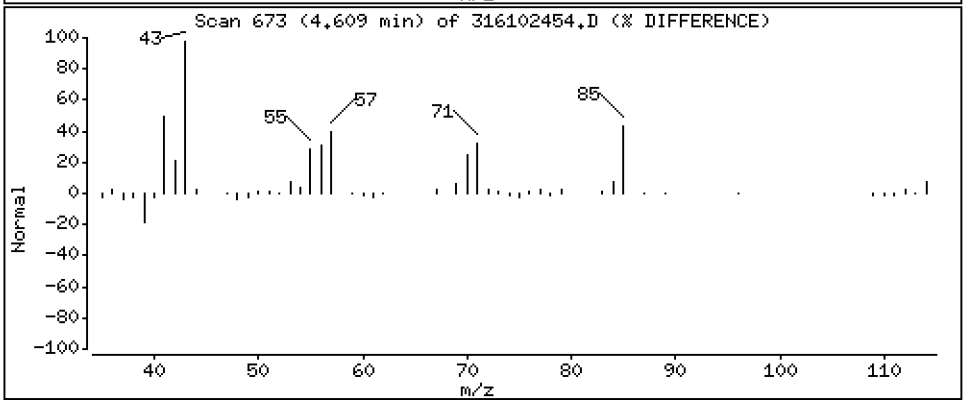
Column phase: DB-VRX Column diameter: 0.25

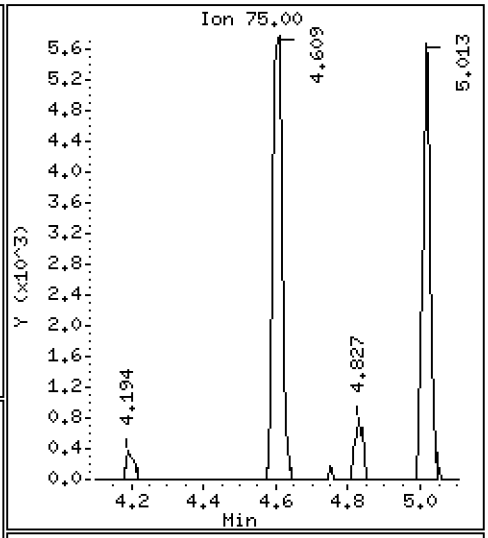
66 cis-1,3-Dichloropropene Concentration: 0.802804 ug/L

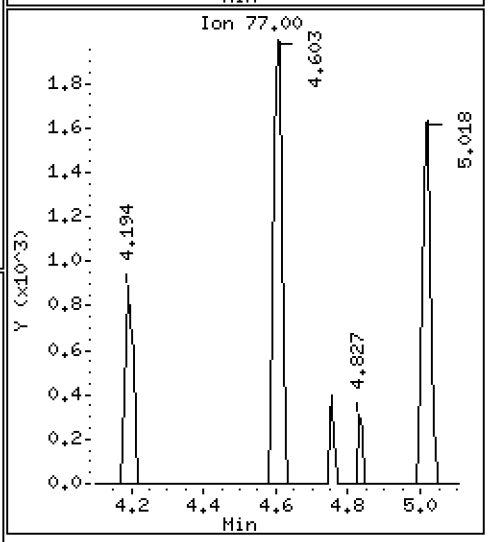












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 72

Date : 24-OCT-2016 23:46

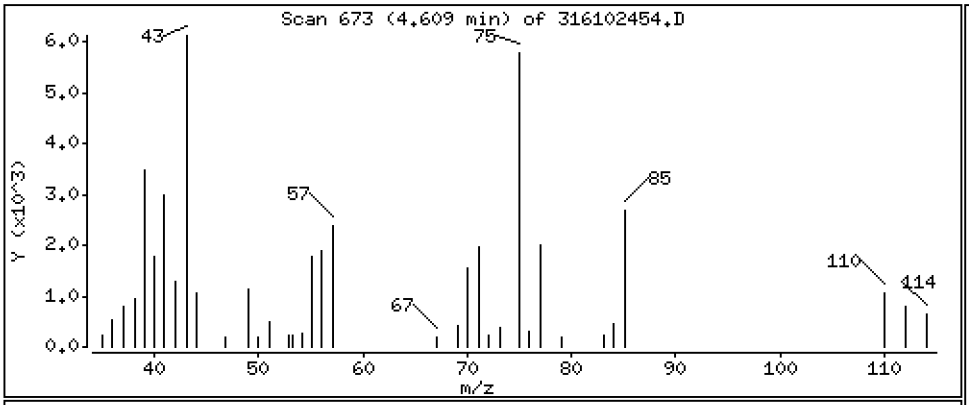
Client ID: Instrument: ms03.i

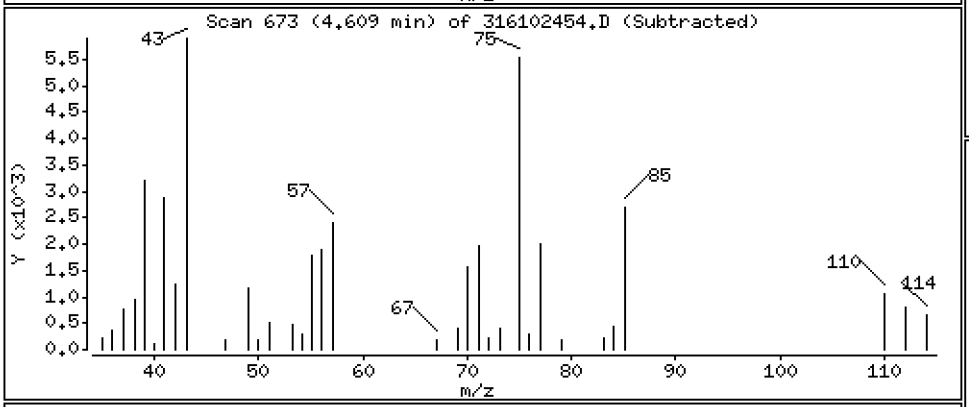
Sample Info: 1234;;1;1;1;;;

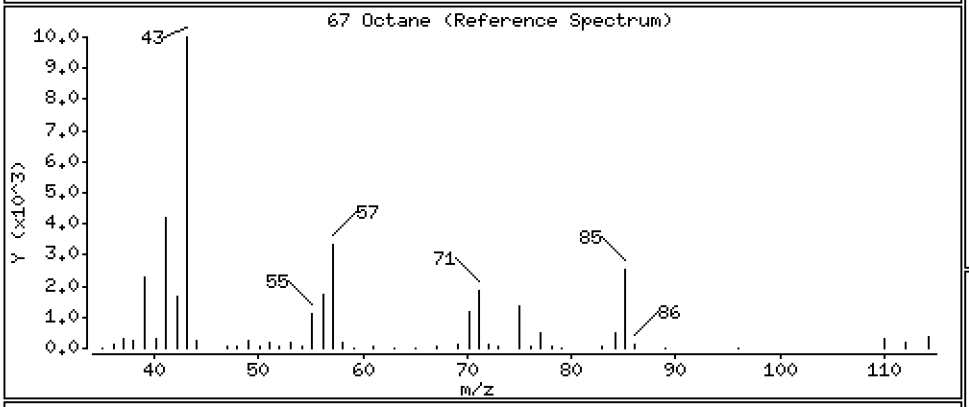
Purge Volume: 5.0 Operator: CJG

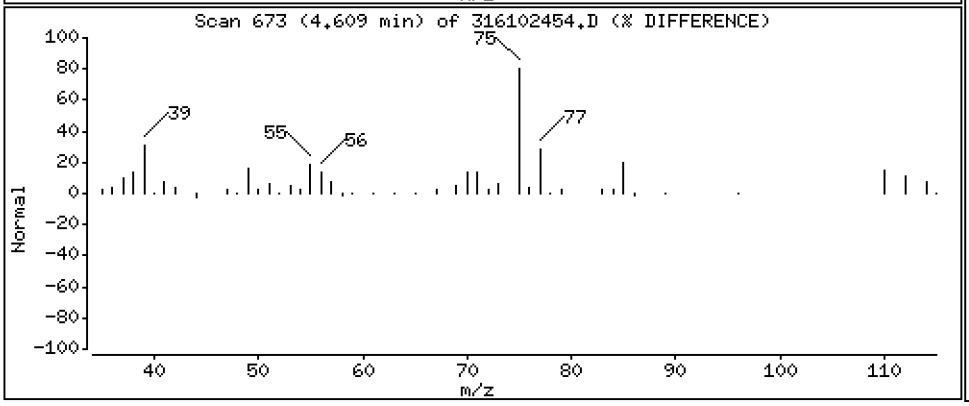
Column phase: DB-VRX Column diameter: 0.25

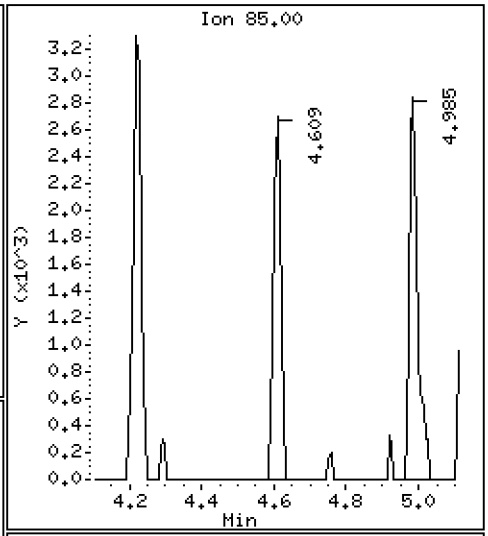
67 Octane Concentration: 1.03334 ug/L

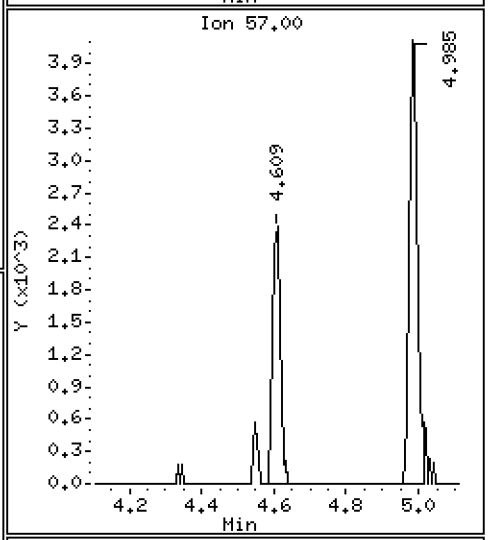


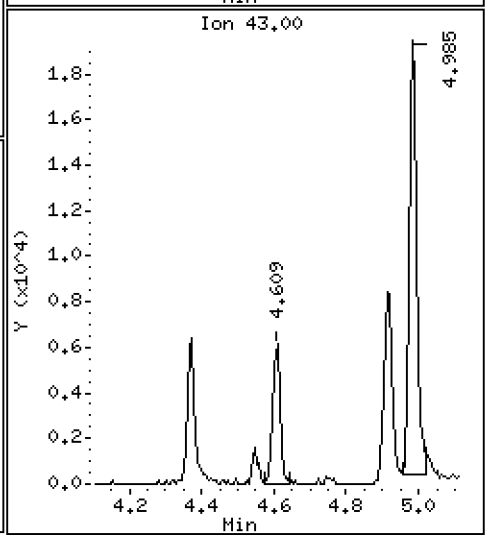












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 73

Date : 24-OCT-2016 23:46

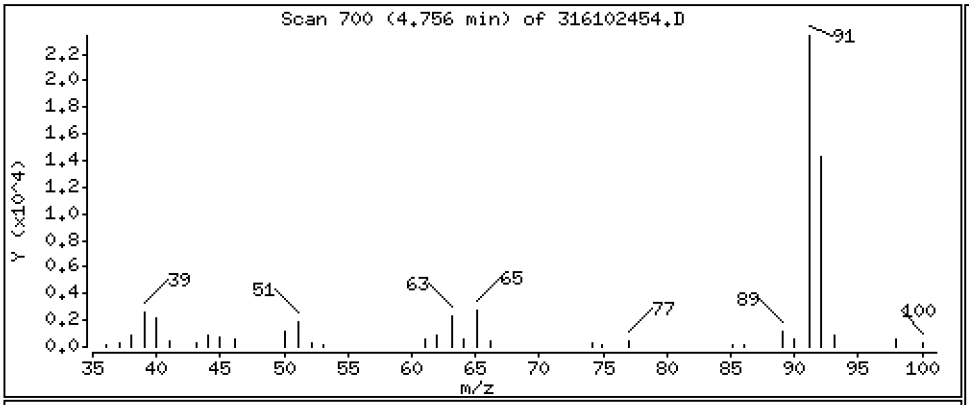
Client ID: Instrument: ms03.i

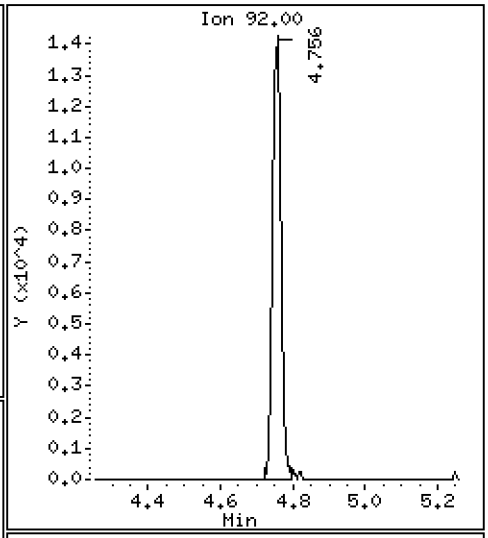
Sample Info: 1234;;1;1;1;;;

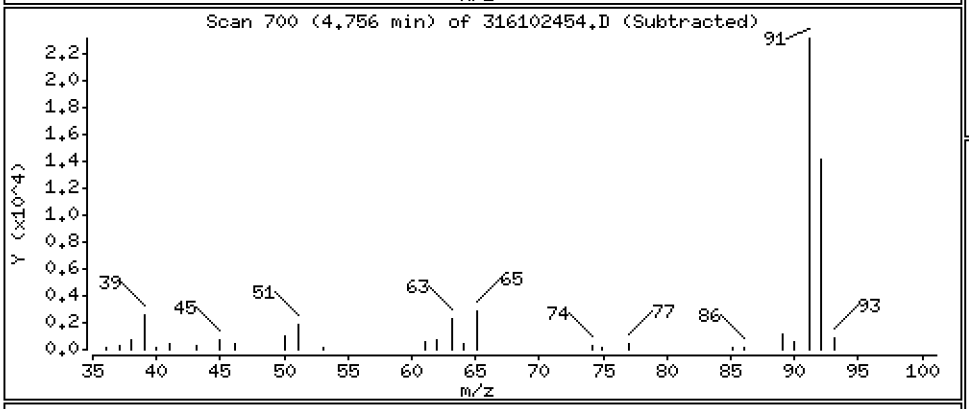
Purge Volume: 5.0 Operator: CJG

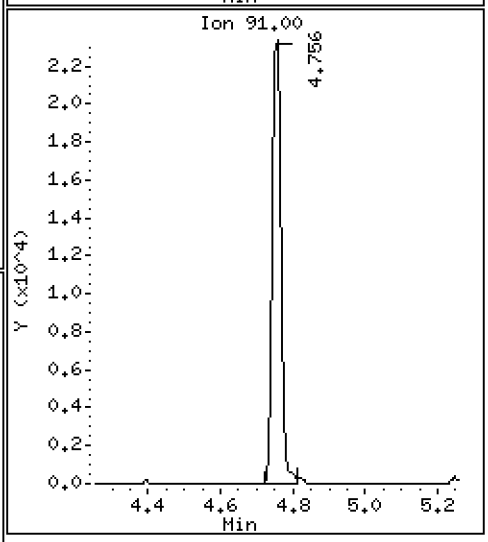
Column phase: DB-VRX Column diameter: 0.25

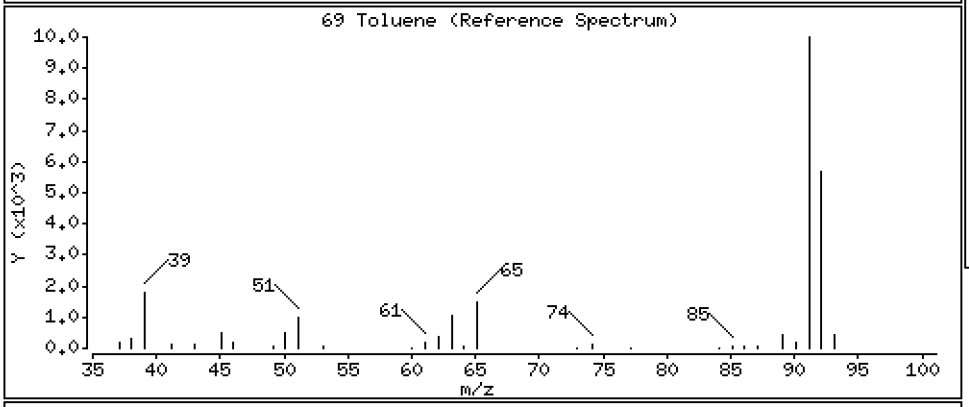
69 Toluene Concentration: 1.10036 ug/L

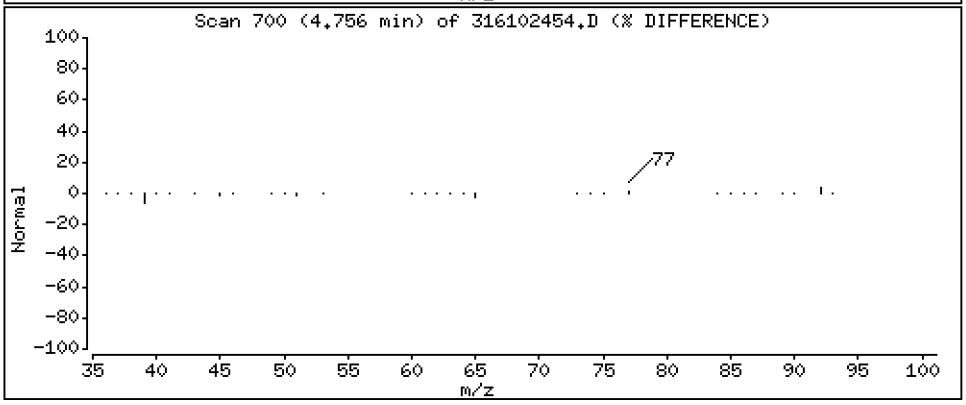












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 74

Date : 24-OCT-2016 23:46

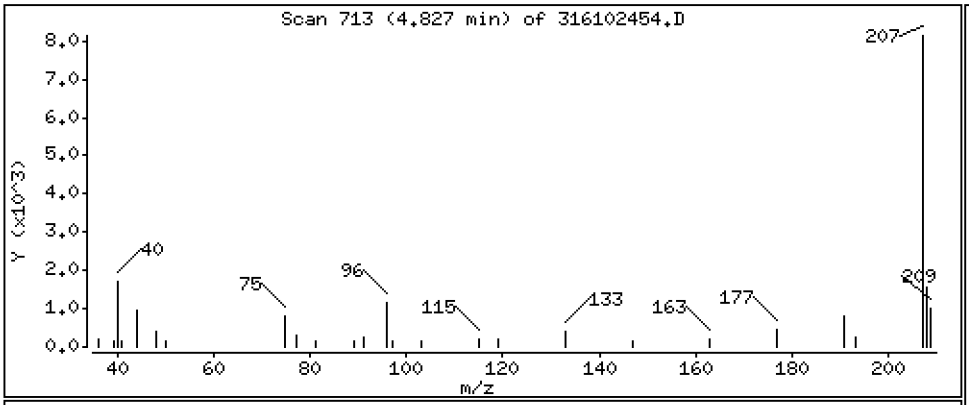
Client ID: Instrument: ms03.i

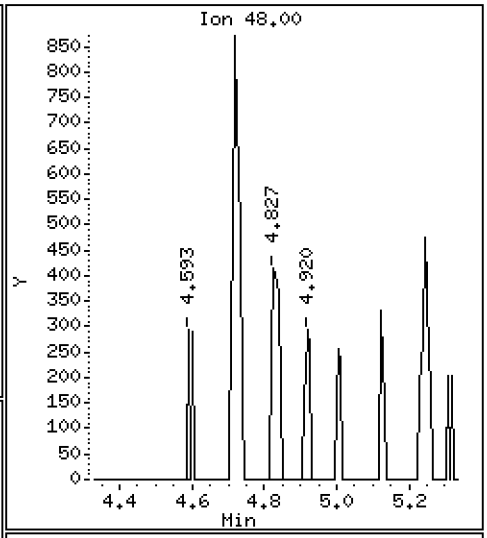
Sample Info: 1234;;1;1;1;;;

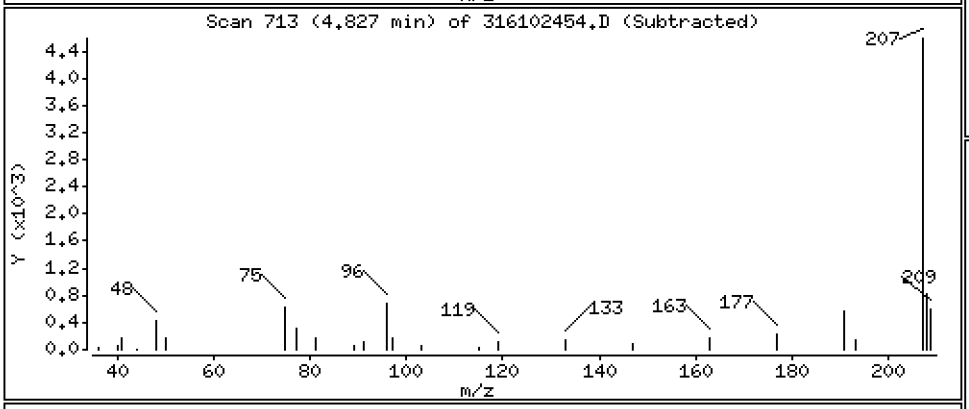
Purge Volume: 5.0 Operator: CJG

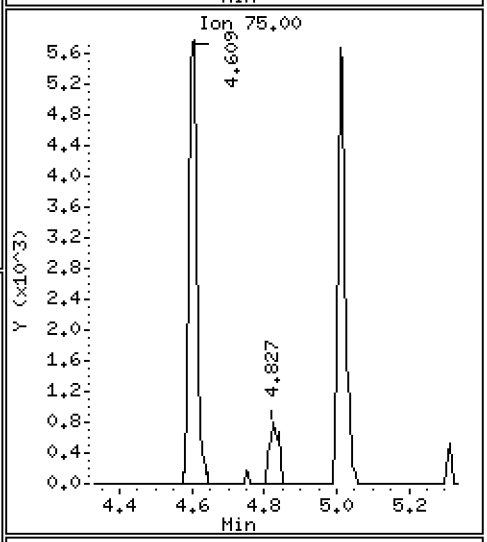
Column phase: DB-VRX Column diameter: 0.25

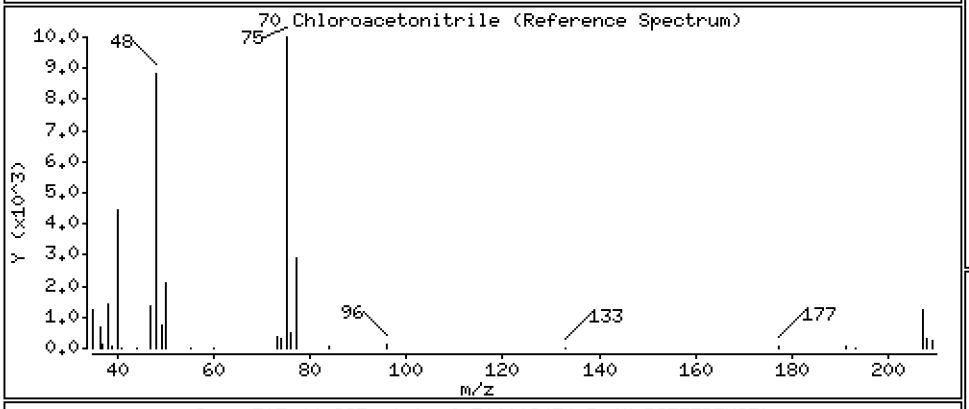
70 Chloroacetonitrile Concentration: 3.06203 ug/L

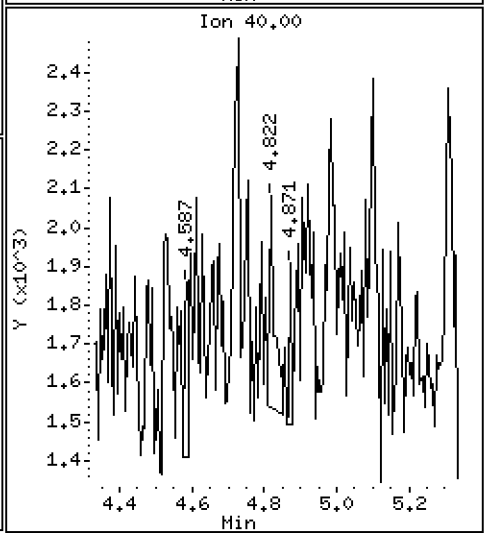


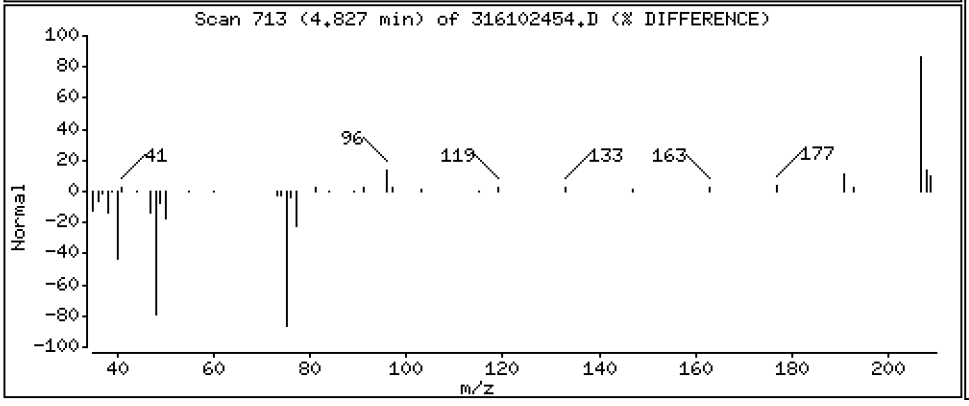












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 75

Date : 24-OCT-2016 23:46

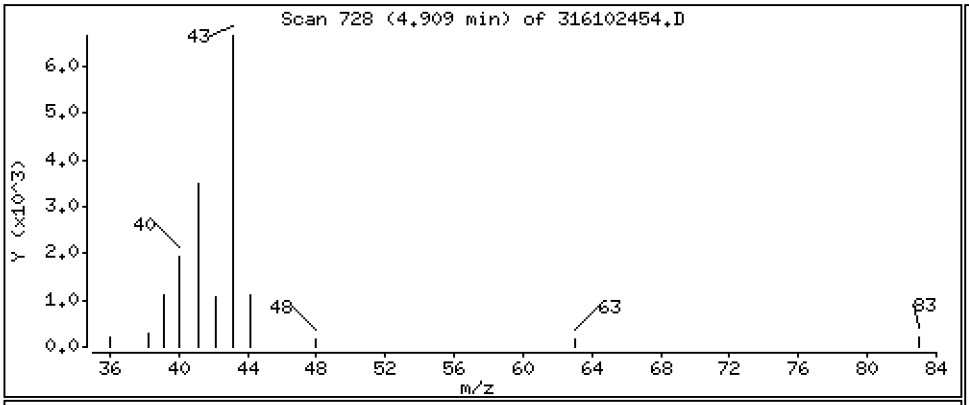
Client ID: Instrument: ms03.i

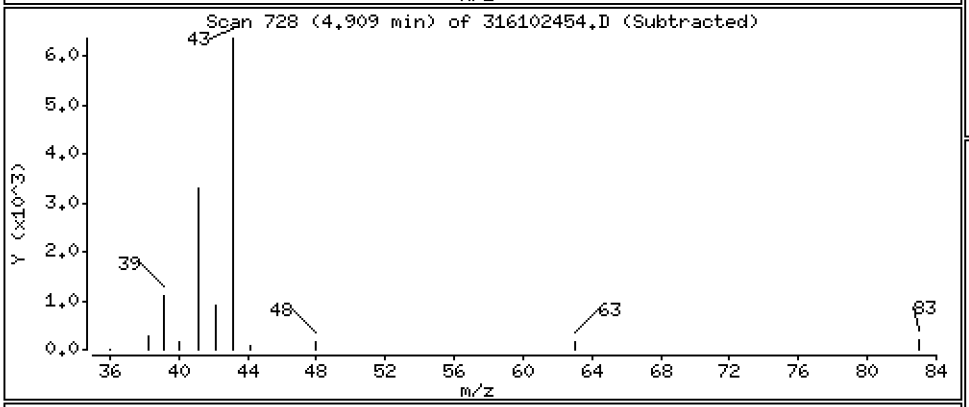
Sample Info: 1234;;1;1;1;;;

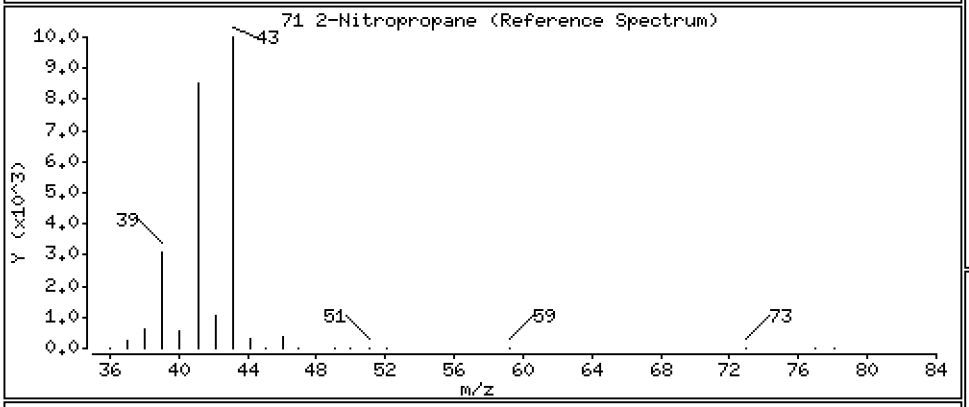
Purge Volume: 5.0 Operator: CJG

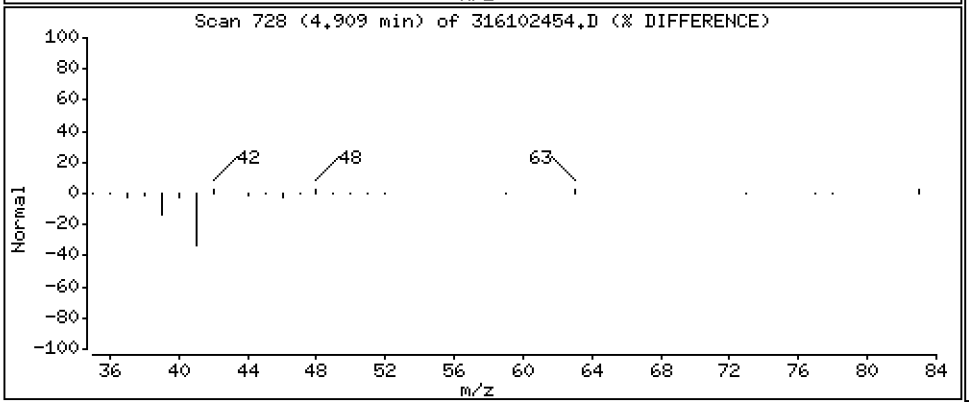
Column phase: DB-VRX Column diameter: 0.25

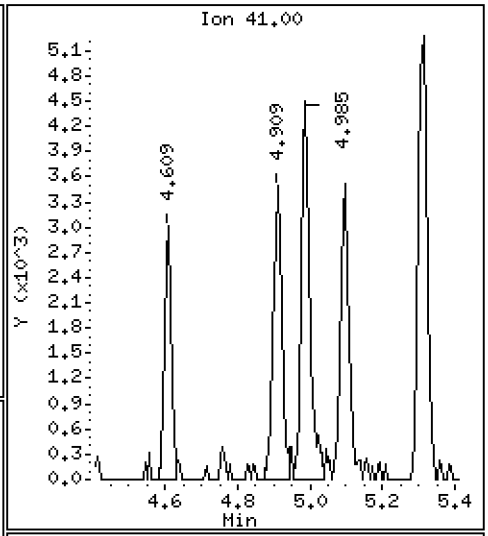
71 2-Nitropropane Concentration: 3.96633 ug/L

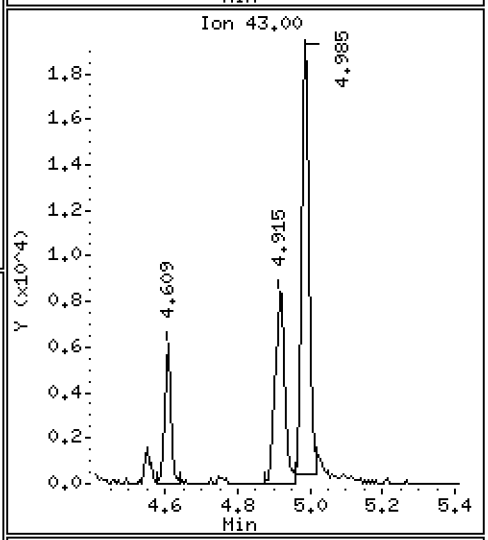


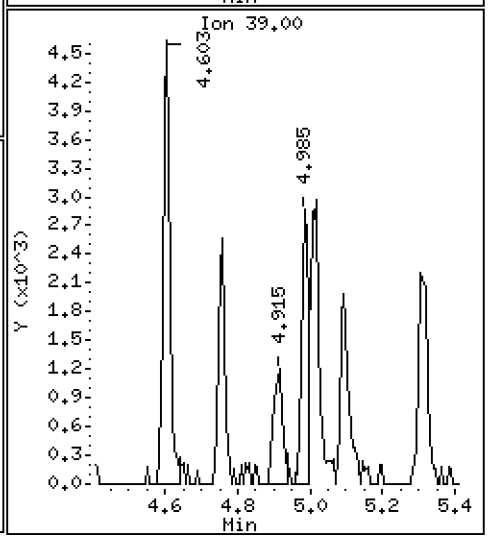












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 76

Date : 24-OCT-2016 23:46

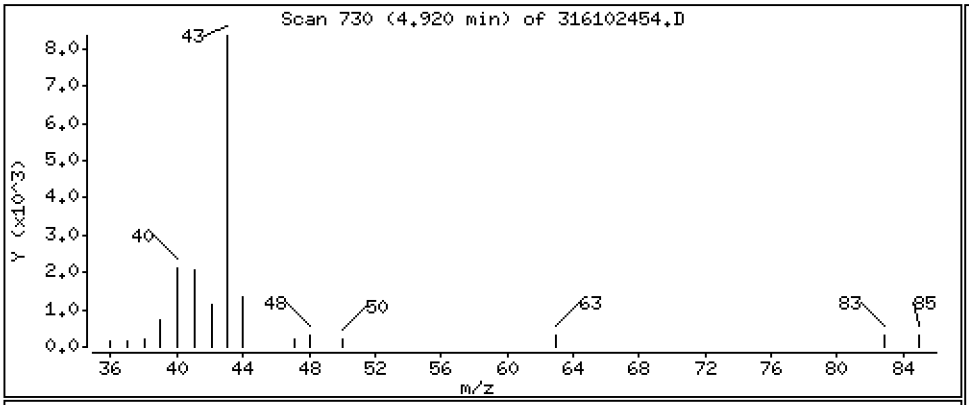
Client ID: Instrument: ms03.i

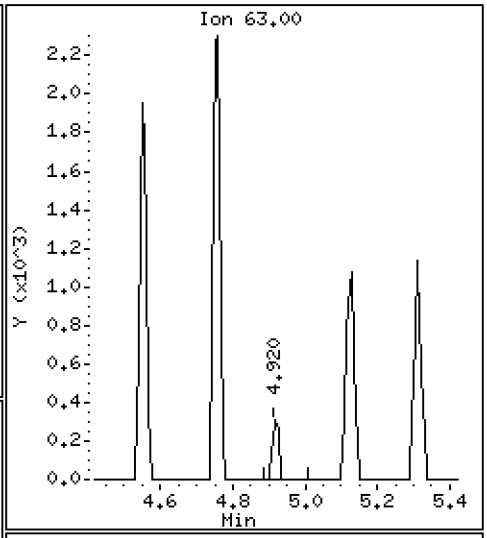
Sample Info: 1234;;1;1;1;;;

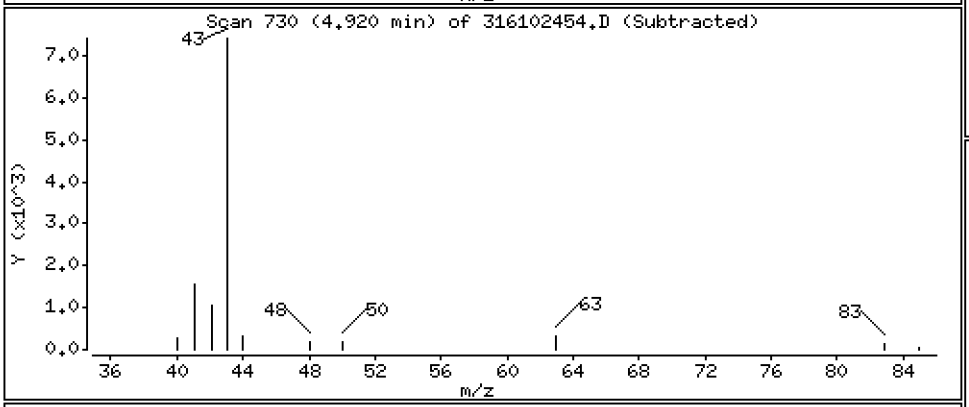
Purge Volume: 5.0 Operator: CJG

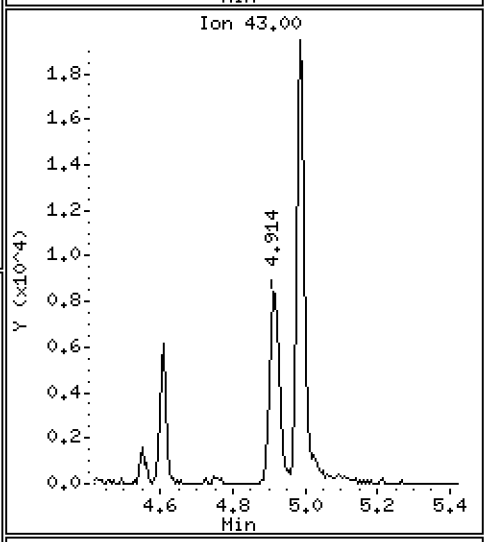
Column phase: DB-VRX Column diameter: 0.25

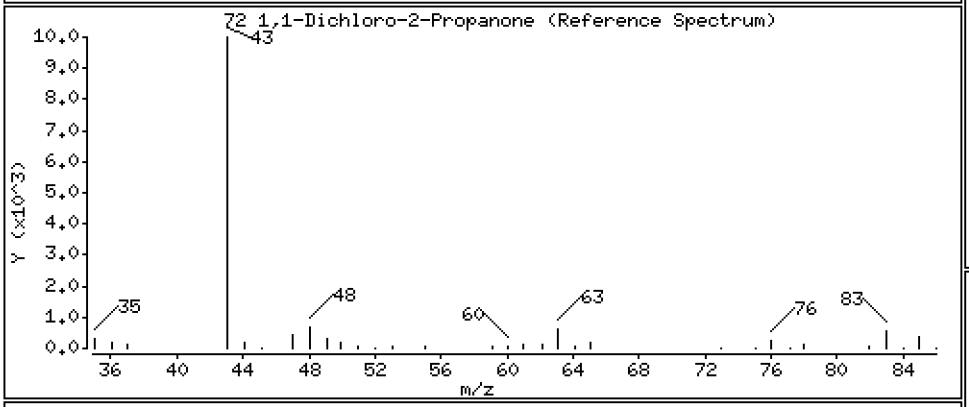
72 1,1-Dichloro-2-Propanone Concentration: 2.39886 ug/L

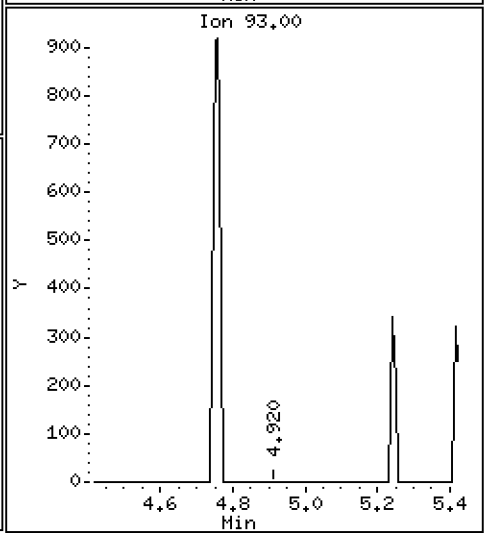


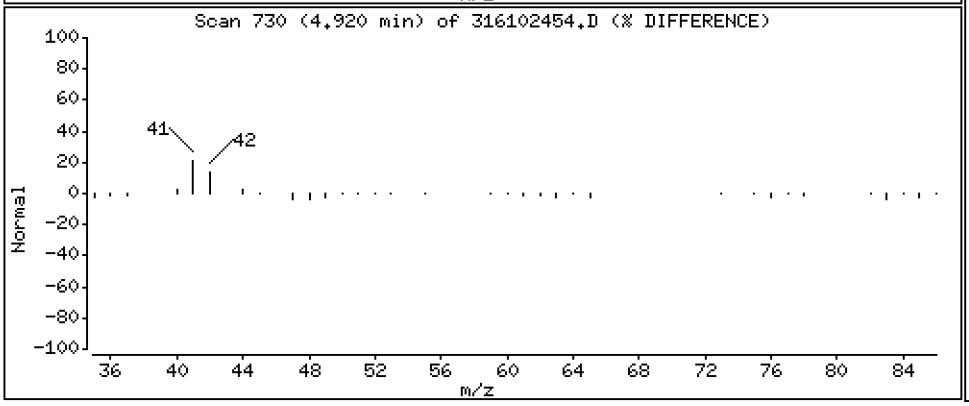












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 77

Date : 24-OCT-2016 23:46

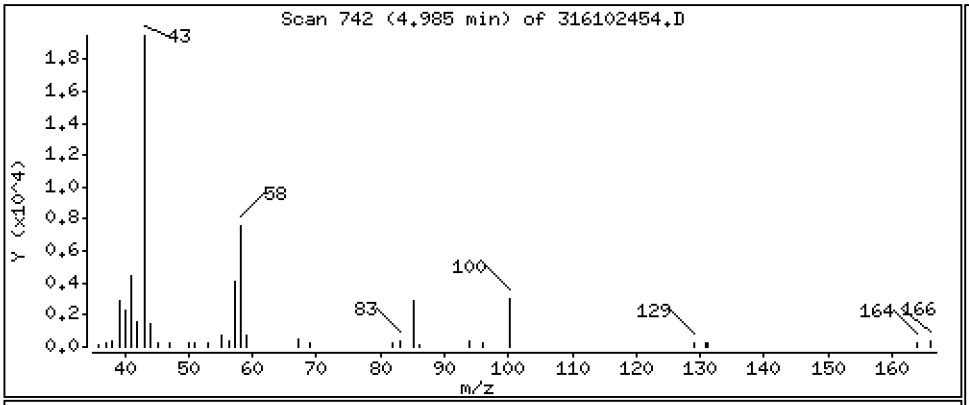
Client ID: Instrument: ms03.i

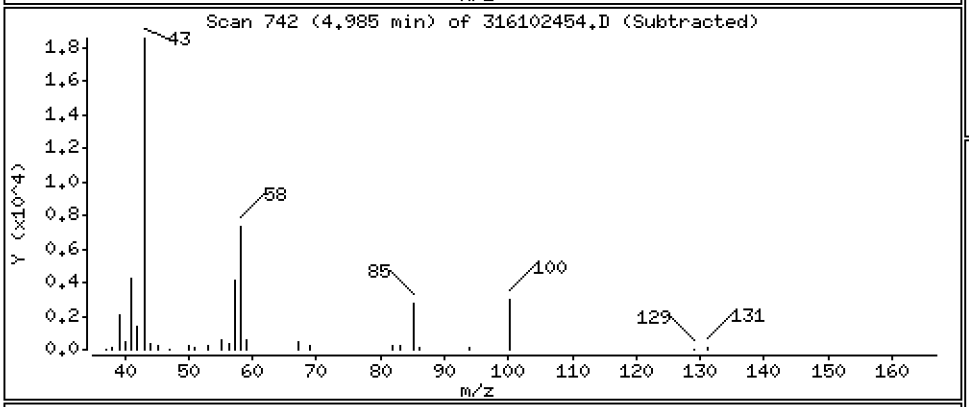
Sample Info: 1234;;1;1;1;;;

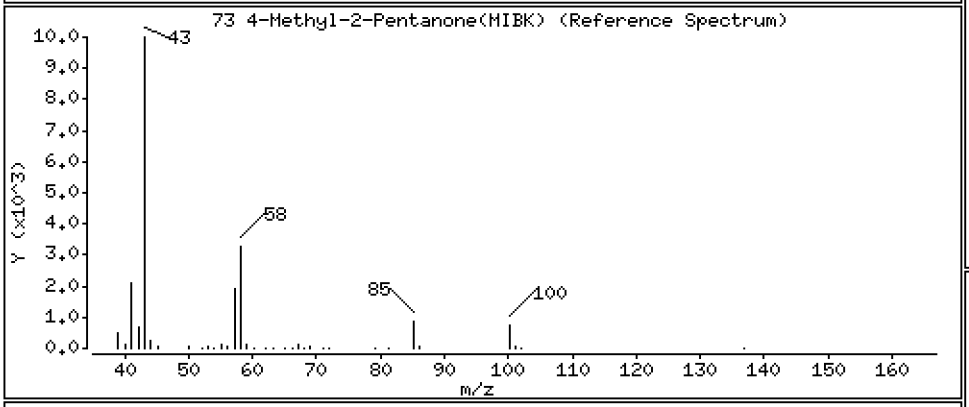
Purge Volume: 5.0 Operator: CJG

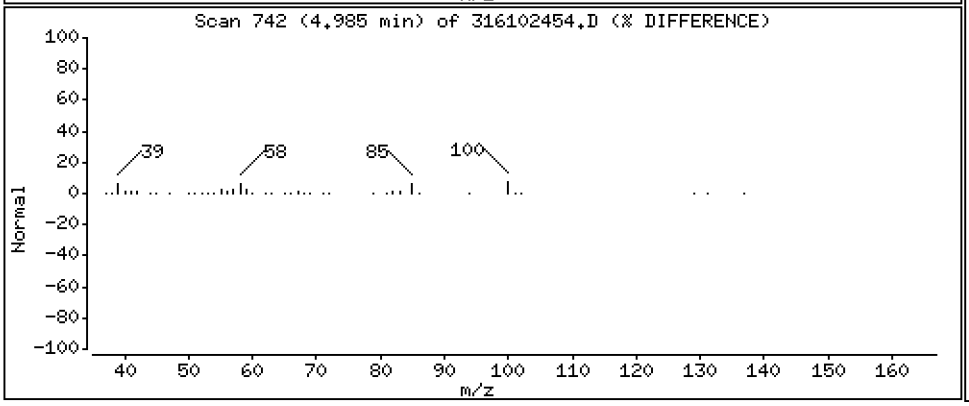
Column phase: DB-VRX Column diameter: 0.25

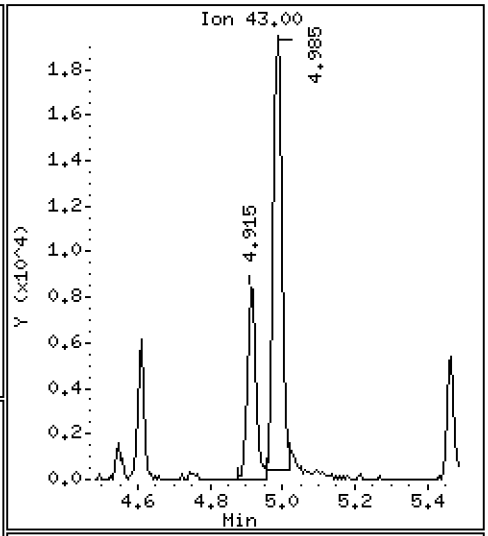
73 4-Methyl-2-Pentanone(MIBK) Concentration: 3.96142 ug/L

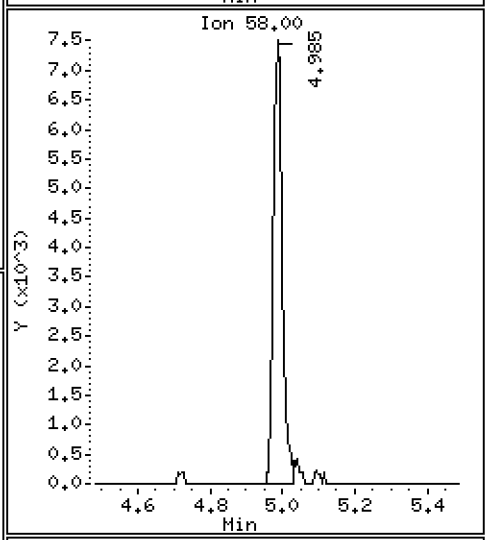


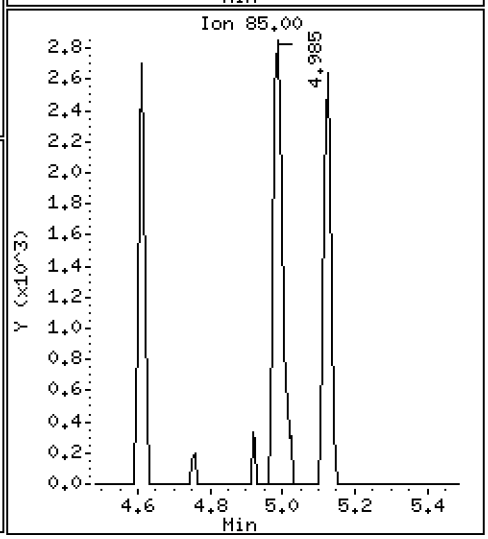












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 78

Date : 24-OCT-2016 23:46

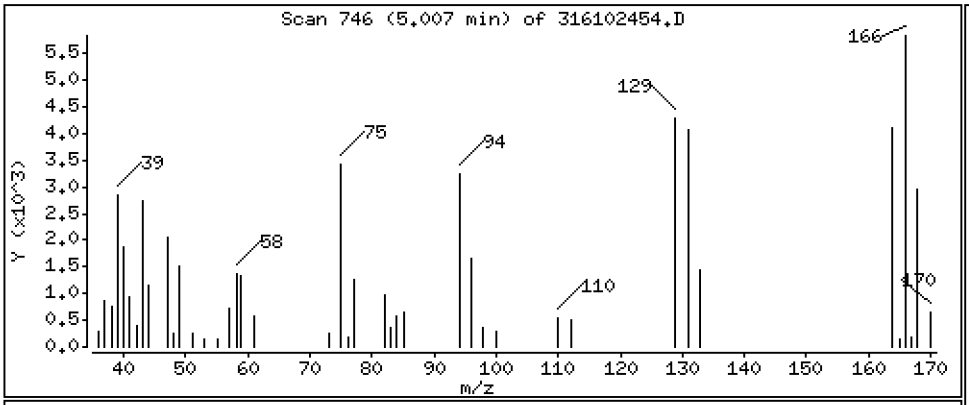
Client ID: Instrument: ms03.i

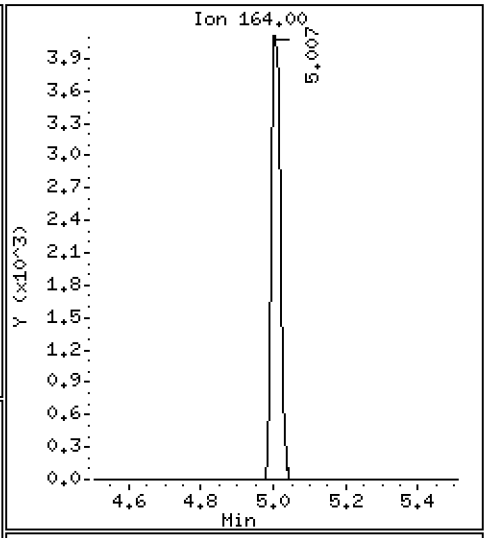
Sample Info: 1234;;1;1;1;;;

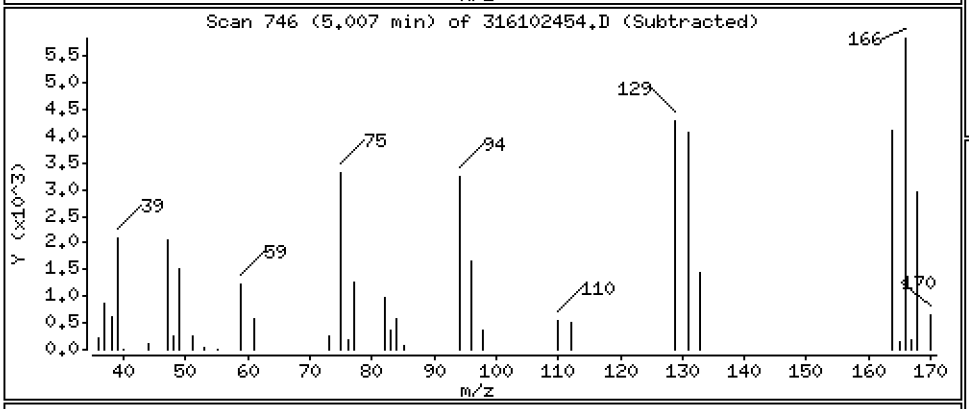
Purge Volume: 5.0 Operator: CJG

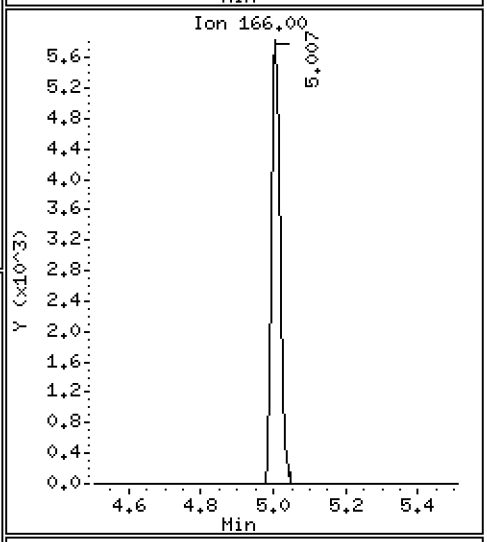
Column phase: DB-VRX Column diameter: 0.25

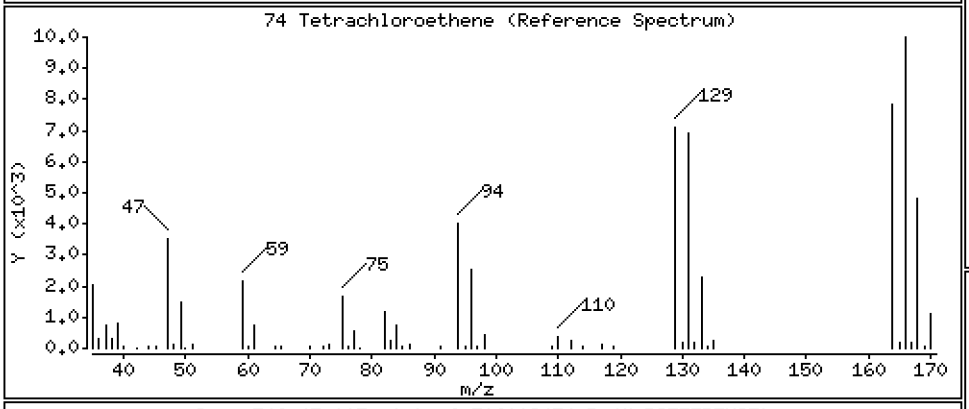
74 Tetrachloroethene Concentration: 1.37100 ug/L

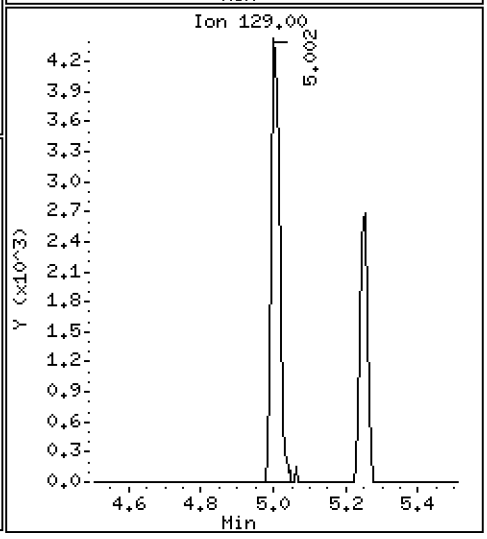


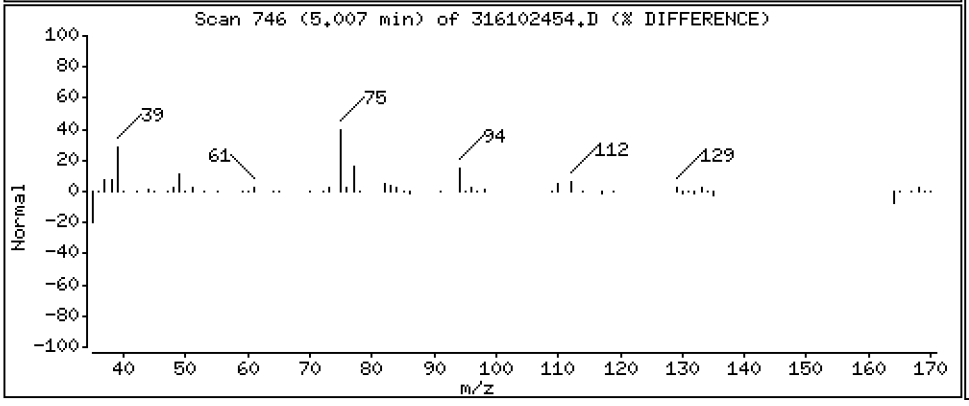












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 79

Date : 24-OCT-2016 23:46

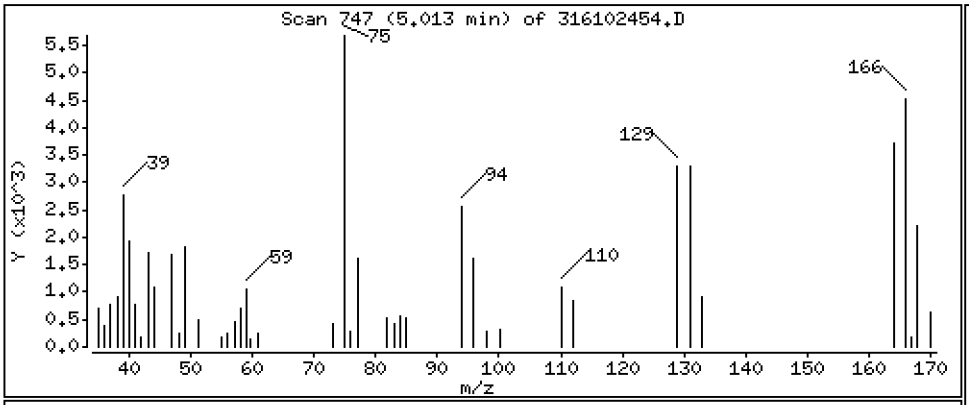
Client ID: Instrument: ms03.i

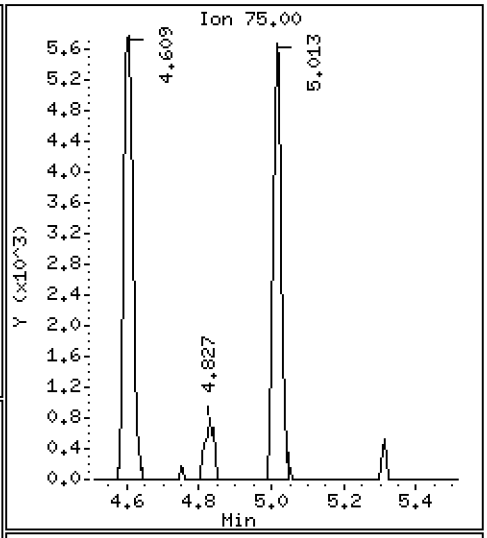
Sample Info: 1234;;1;1;1;;;

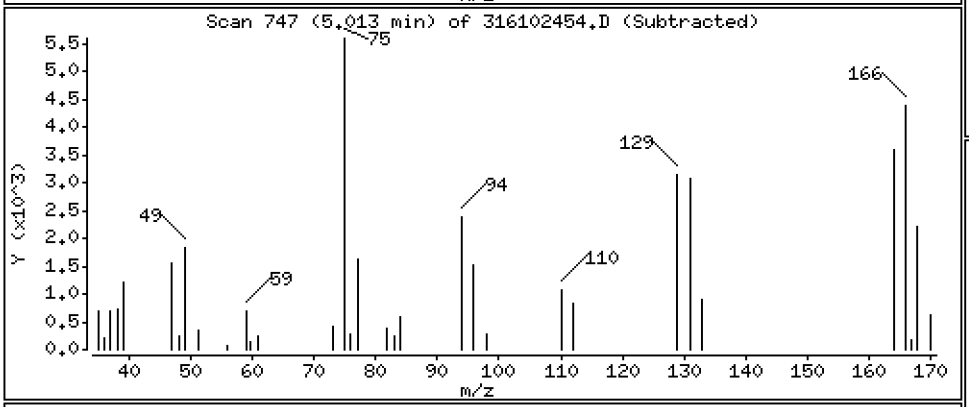
Purge Volume: 5.0 Operator: CJG

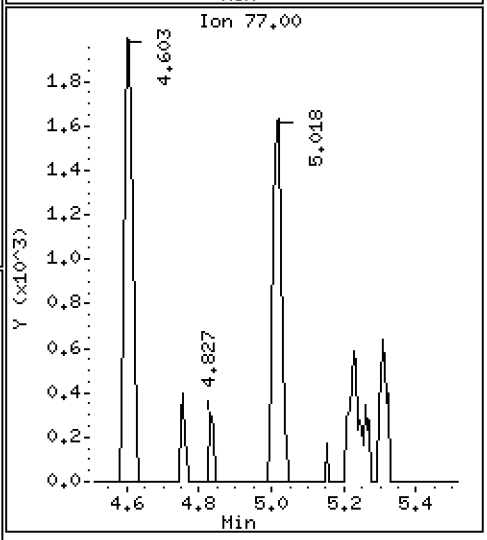
Column phase: DB-VRX Column diameter: 0.25

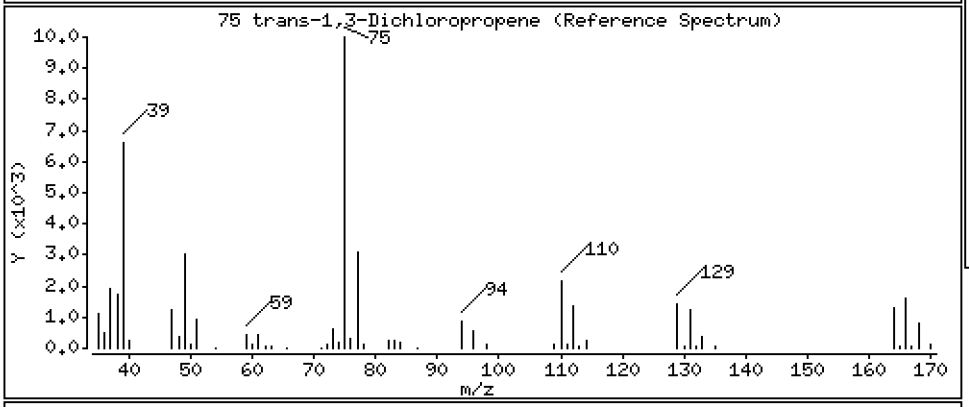
75 trans-1,3-Dichloropropene Concentration: 0.763050 ug/L

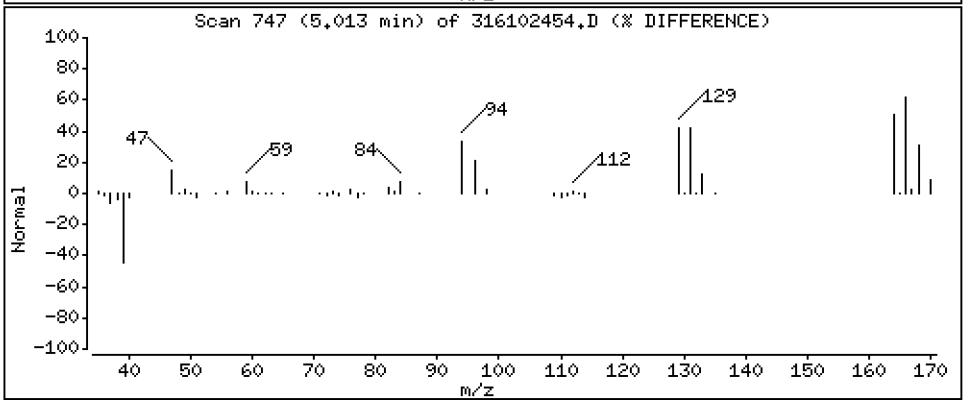












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 80

Date : 24-OCT-2016 23:46

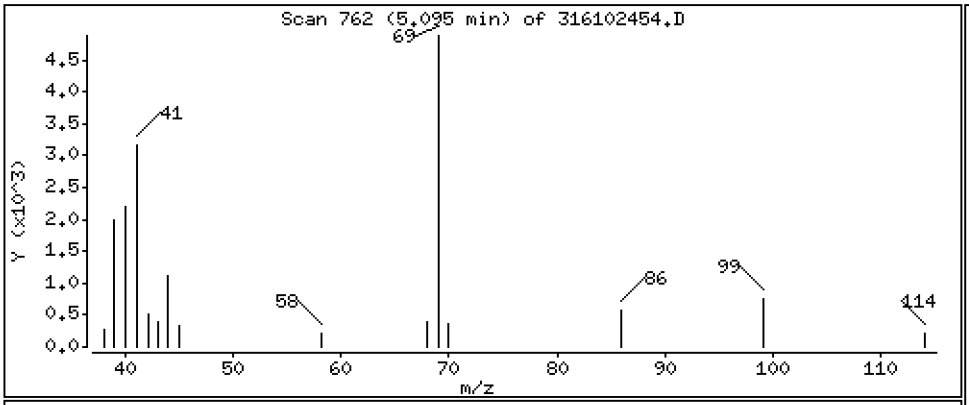
Client ID: Instrument: ms03.i

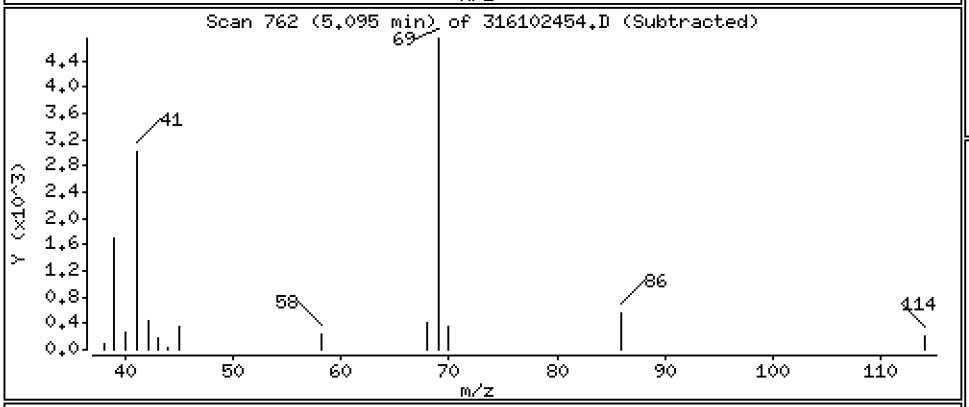
Sample Info: 1234;;1;1;1;;;

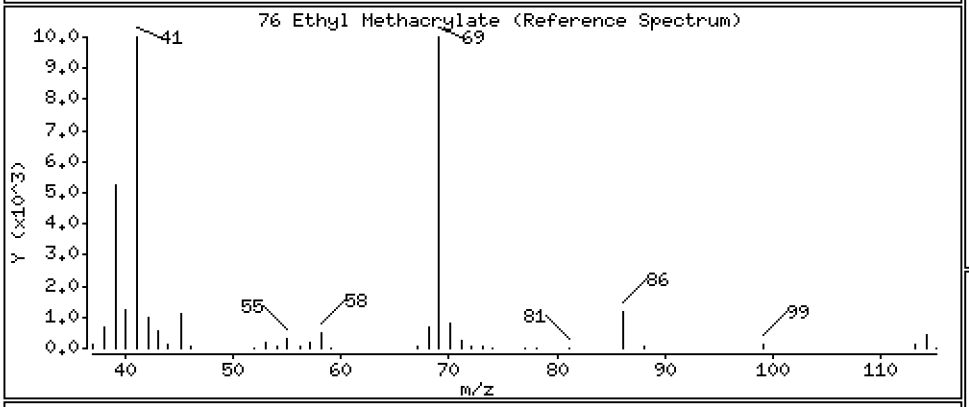
Purge Volume: 5.0 Operator: CJG

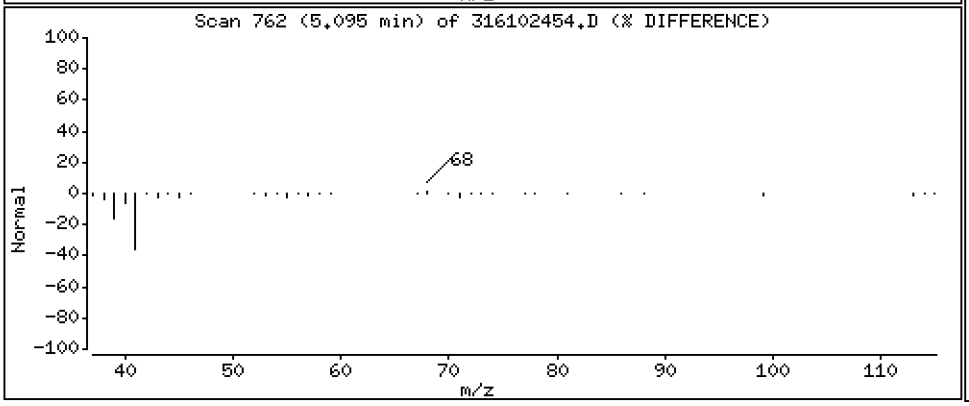
Column phase: DB-VRX Column diameter: 0.25

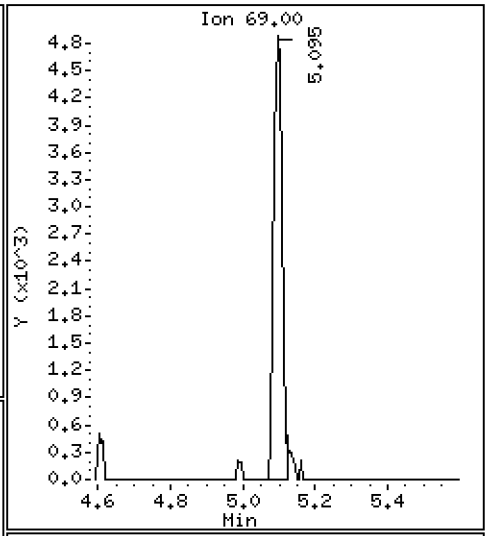
76 Ethyl Methacrylate Concentration: 0.748664 ug/L

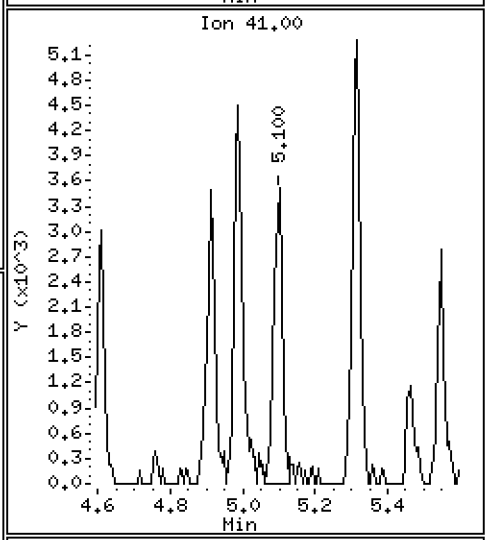


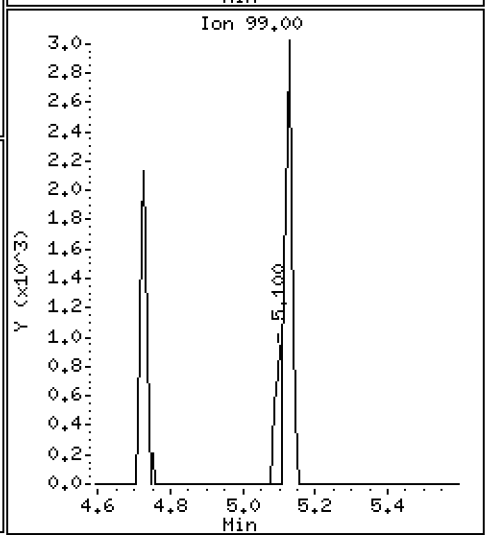












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 81

Date : 24-OCT-2016 23:46

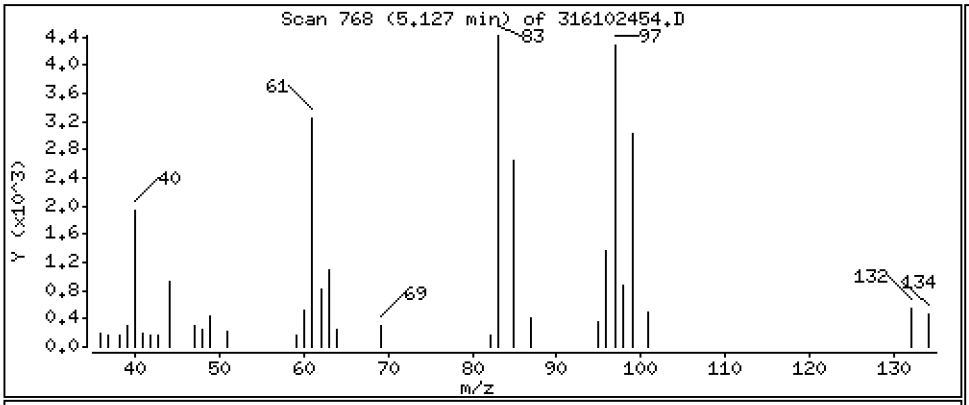
Client ID: Instrument: ms03.i

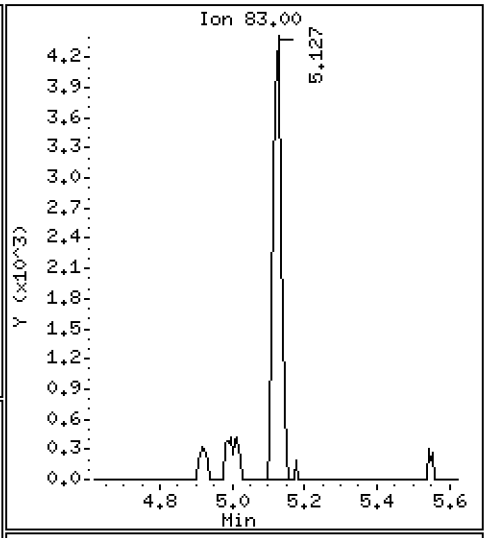
Sample Info: 1234;;1;1;1;;;

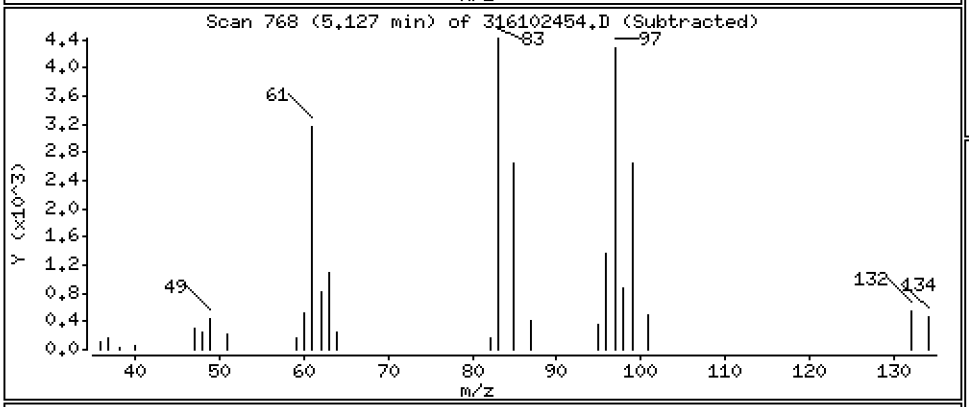
Purge Volume: 5.0 Operator: CJG

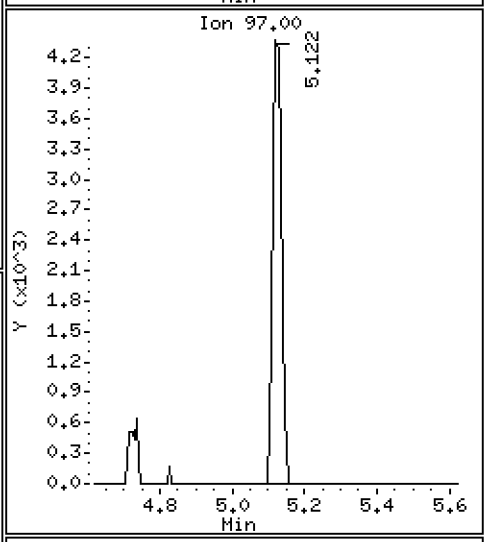
Column phase: DB-VRX Column diameter: 0.25

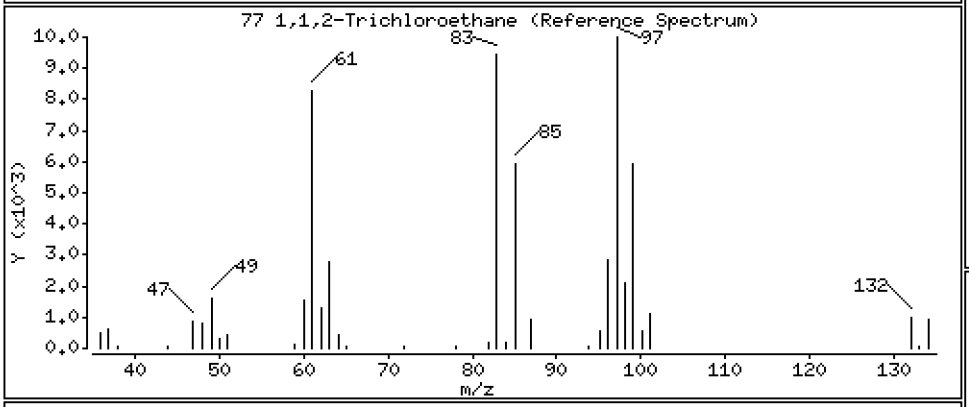
77 1,1,2-Trichloroethane Concentration: 1.12909 ug/L

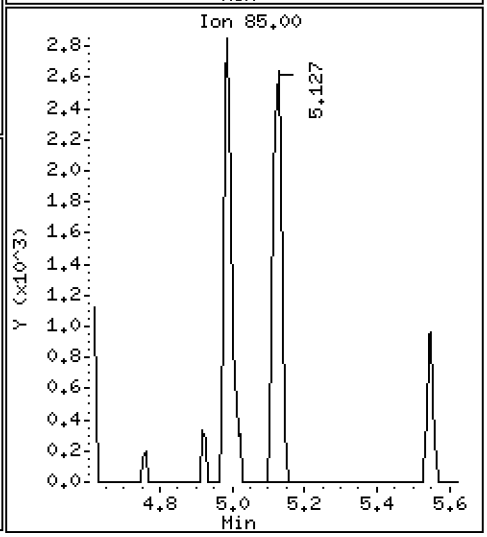


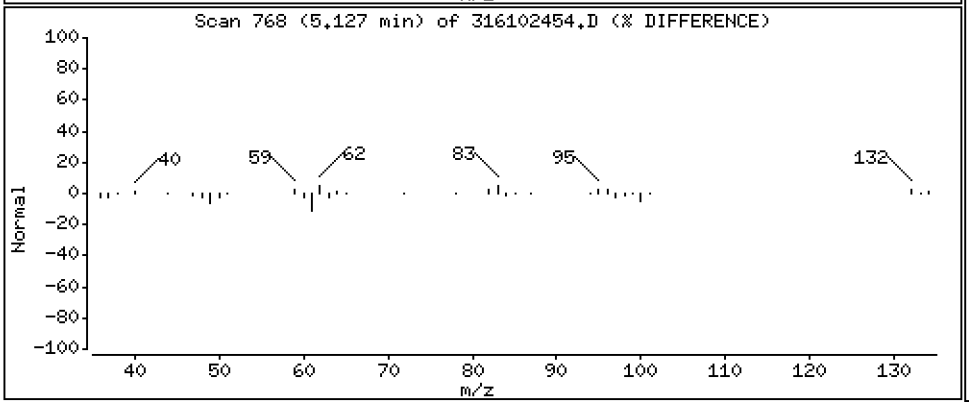












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 82

Date : 24-OCT-2016 23:46

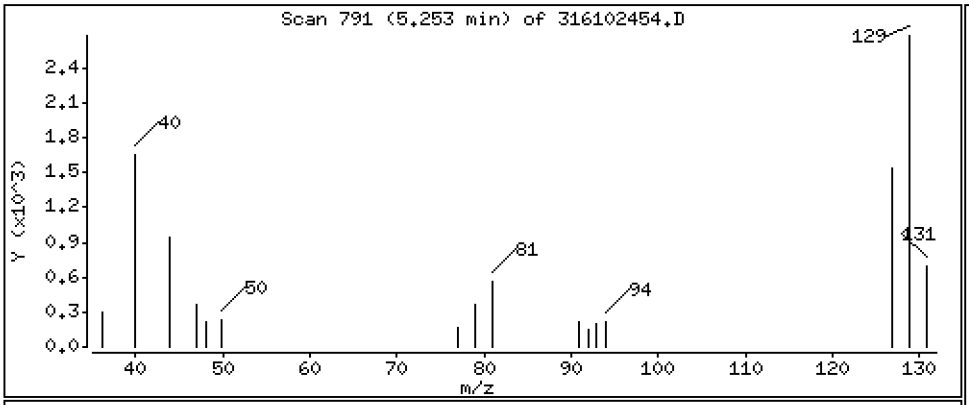
Client ID: Instrument: ms03.i

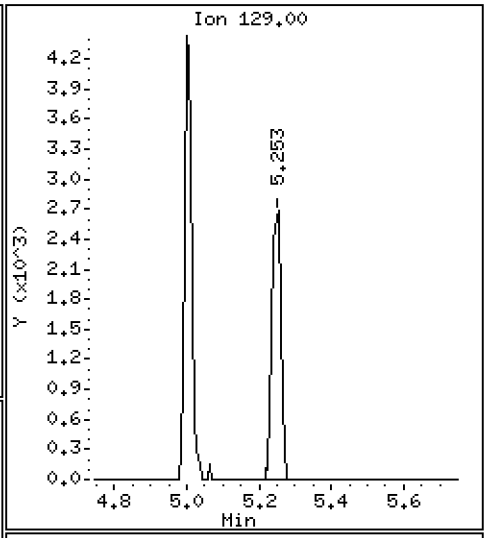
Sample Info: 1234;;1;1;1;;;

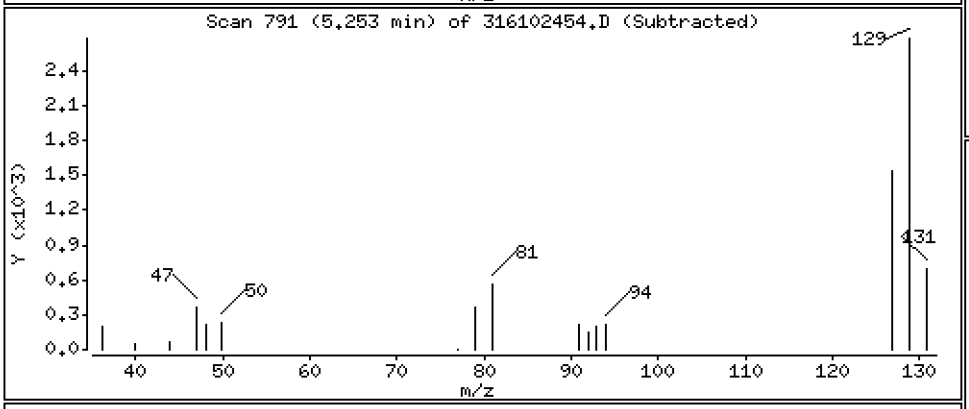
Purge Volume: 5.0 Operator: CJG

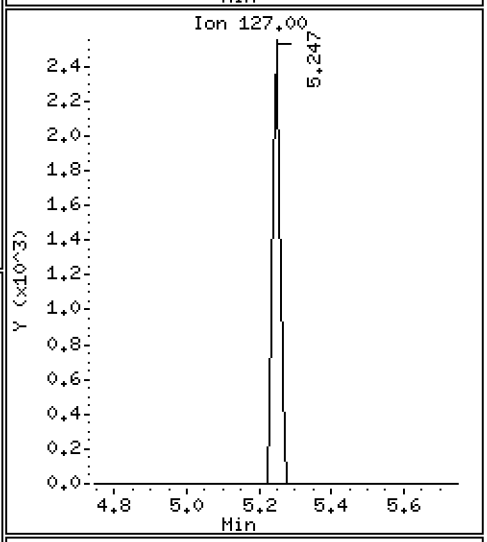
Column phase: DB-VRX Column diameter: 0.25

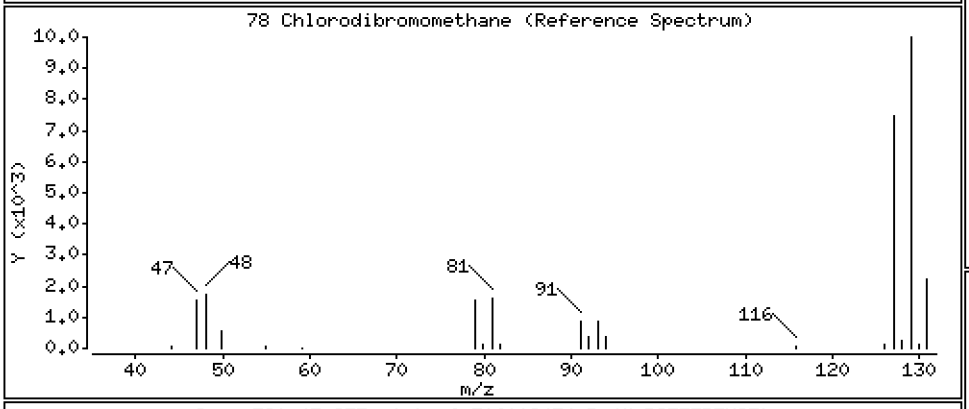
78 Chlorodibromomethane Concentration: 0.799283 ug/L

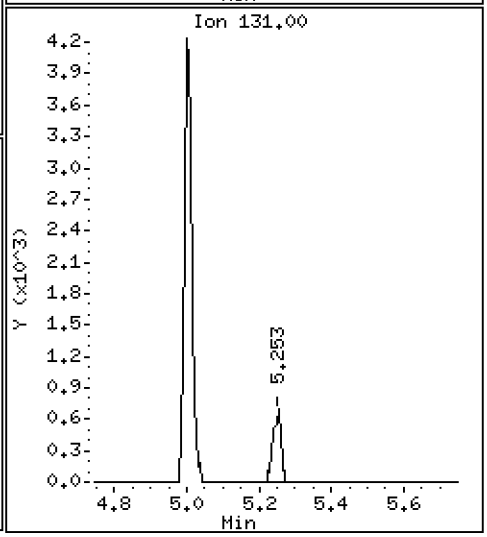


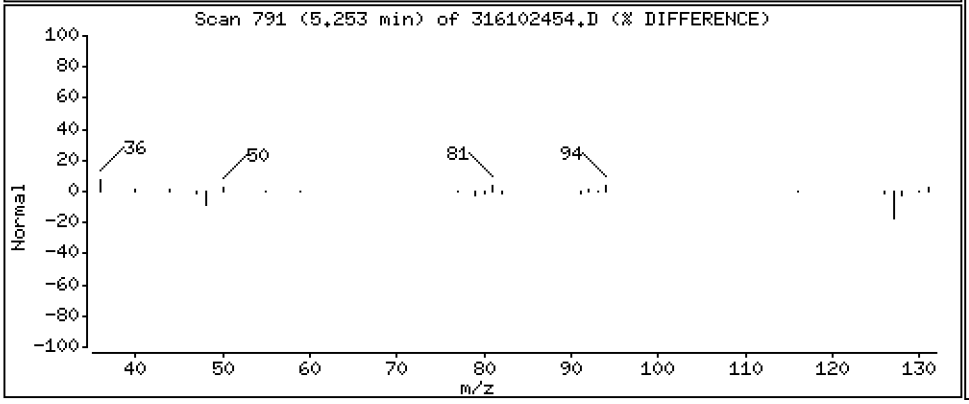












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 83

Date : 24-OCT-2016 23:46

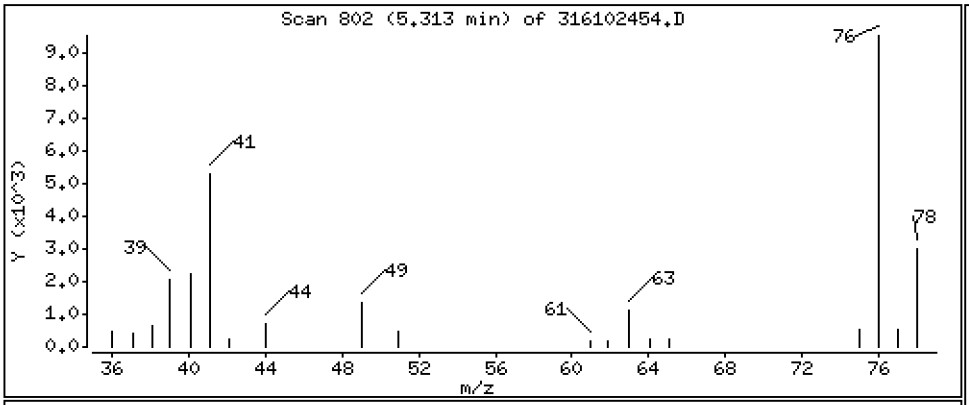
Client ID: Instrument: ms03.i

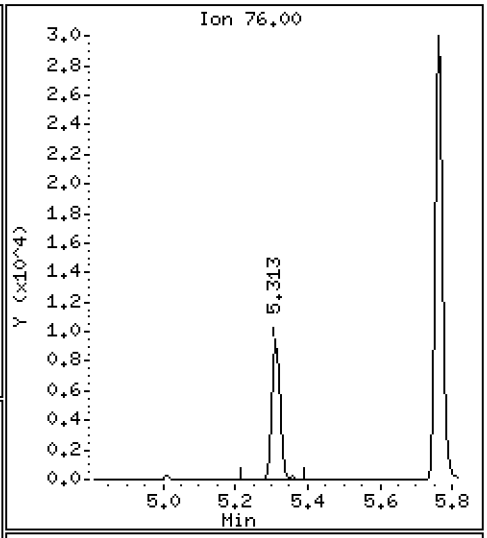
Sample Info: 1234;;1;1;1;;;

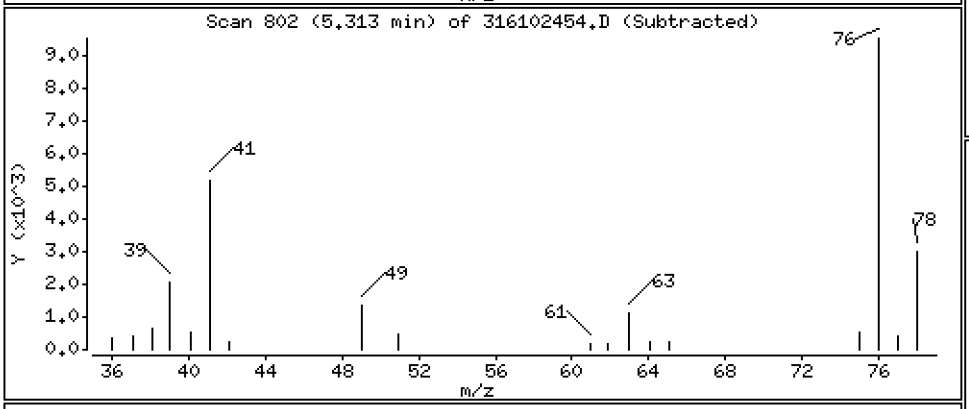
Purge Volume: 5.0 Operator: CJG

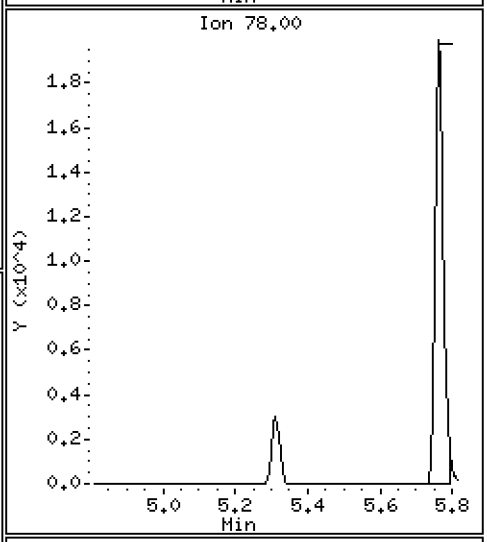
Column phase: DB-VRX Column diameter: 0.25

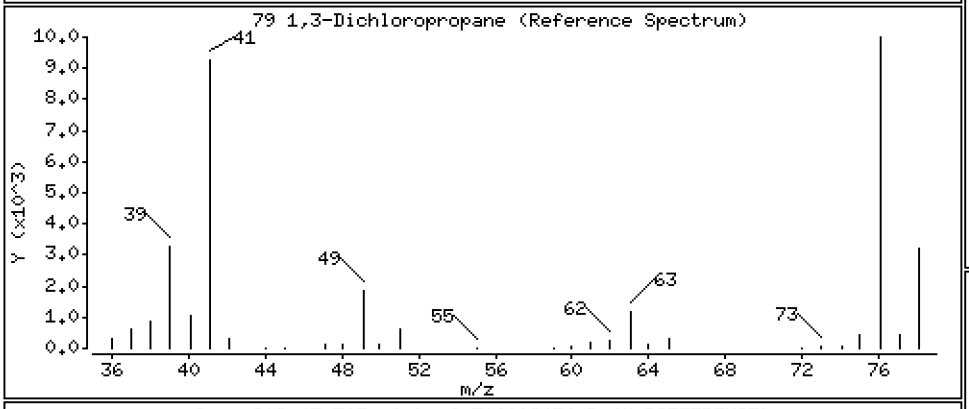
79 1,3-Dichloropropane Concentration: 1.12767 ug/L

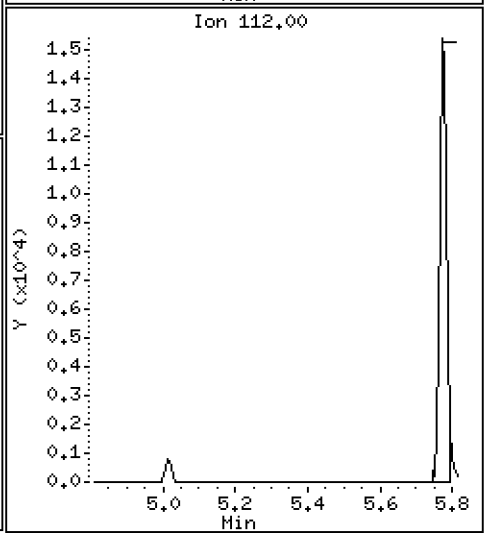


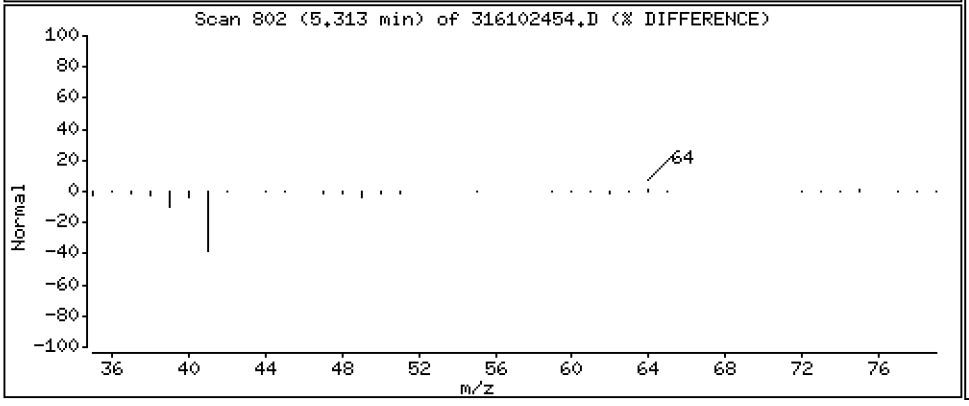












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 84

Date : 24-OCT-2016 23:46

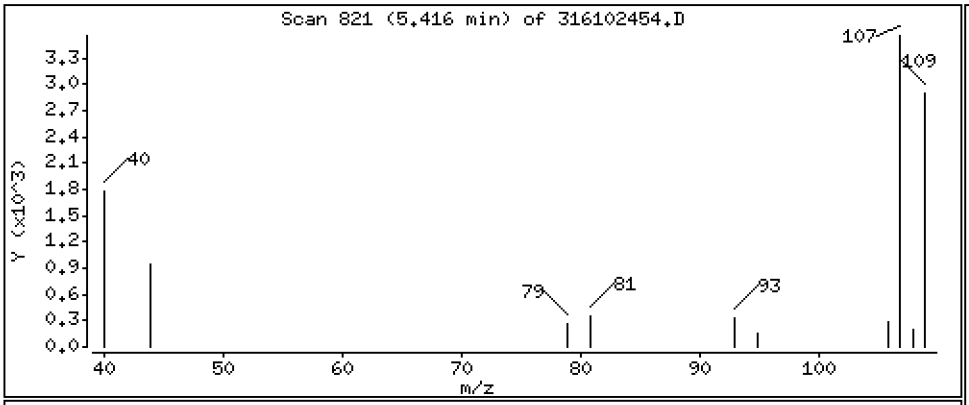
Client ID: Instrument: ms03.i

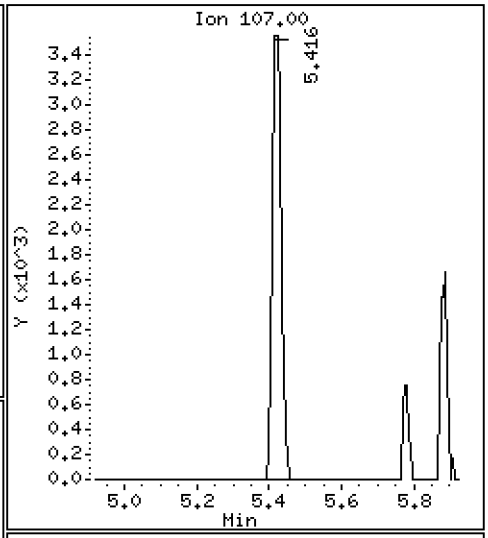
Sample Info: 1234;;1;1;1;;;

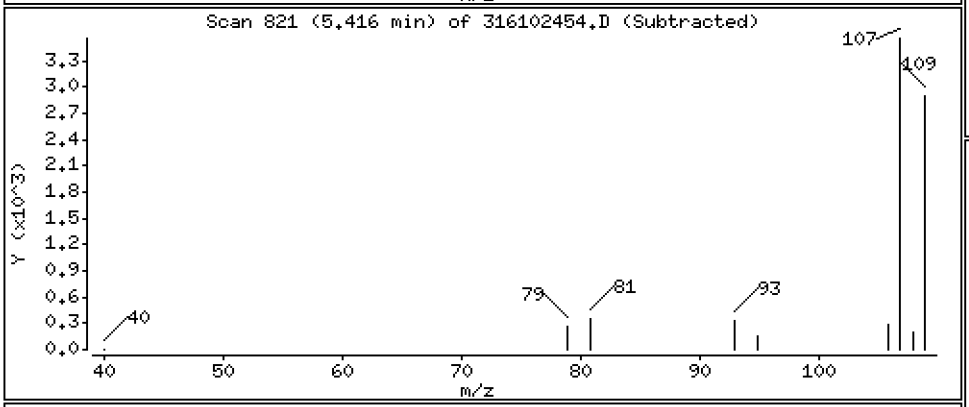
Purge Volume: 5.0 Operator: CJG

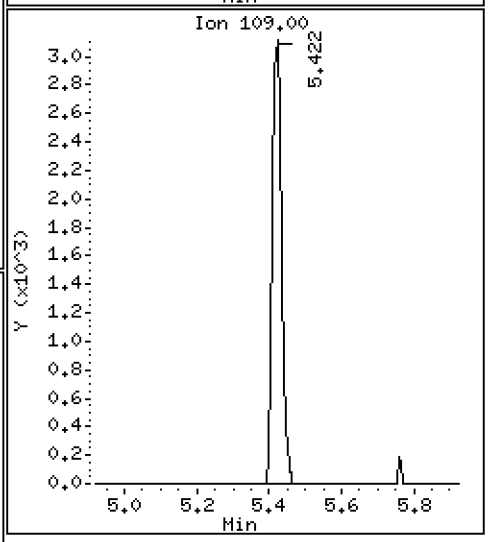
Column phase: DB-VRX Column diameter: 0.25

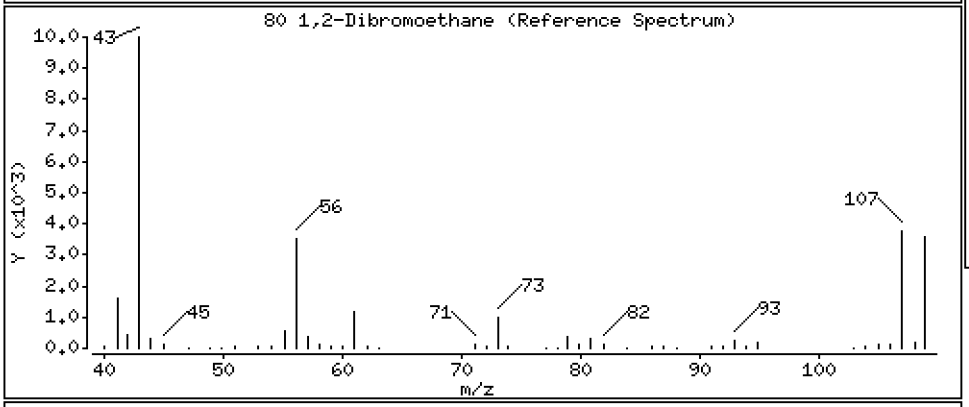
80 1,2-Dibromoethane Concentration: 0.979669 ug/L

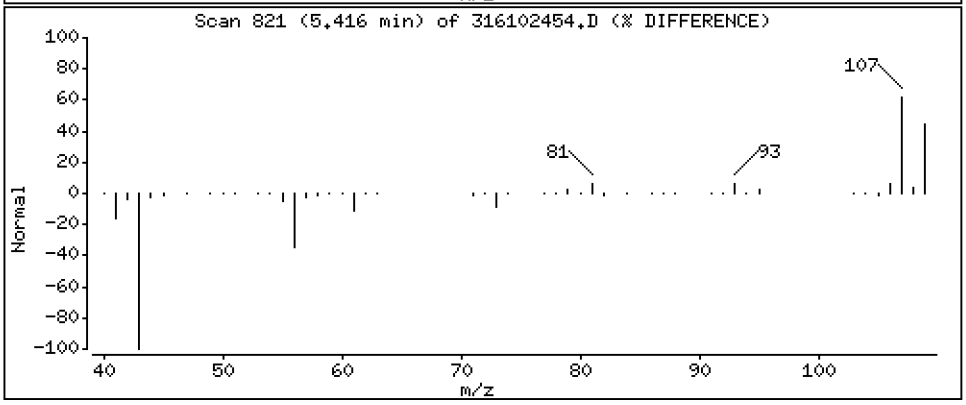












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 85

Date : 24-OCT-2016 23:46

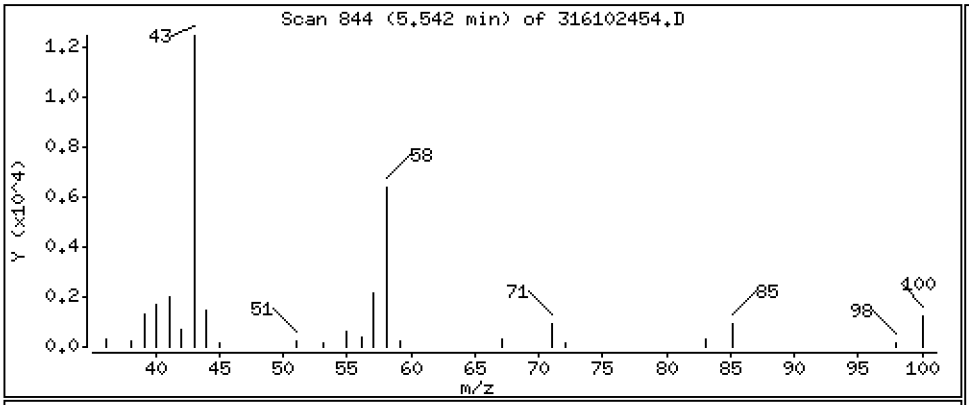
Client ID: Instrument: ms03.i

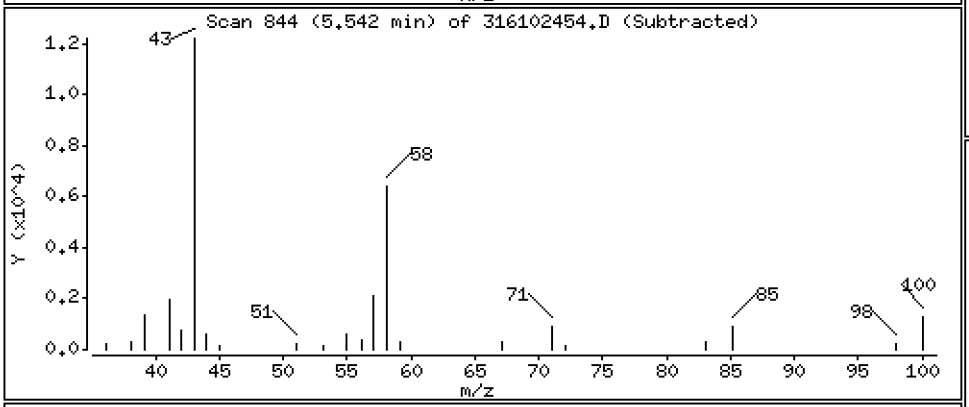
Sample Info: 1234;;1;1;1;;;

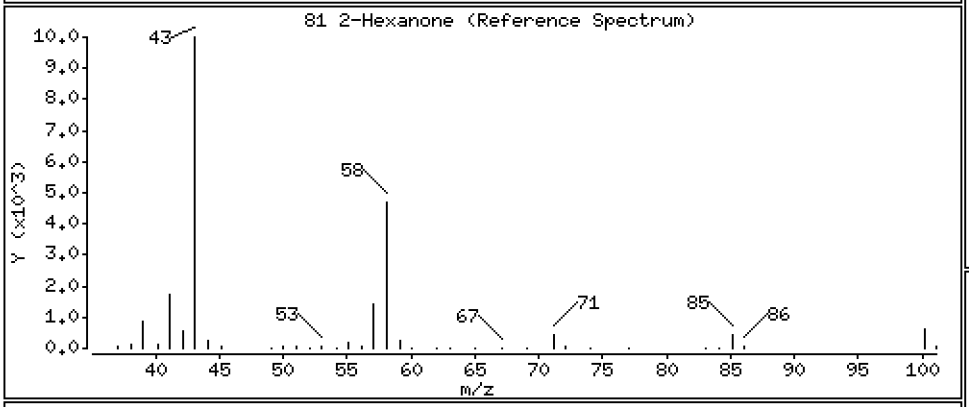
Purge Volume: 5.0 Operator: CJG

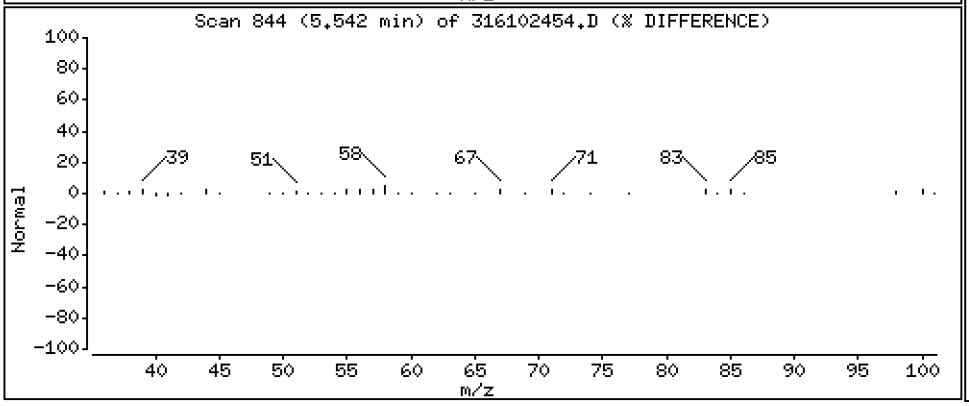
Column phase: DB-VRX Column diameter: 0.25

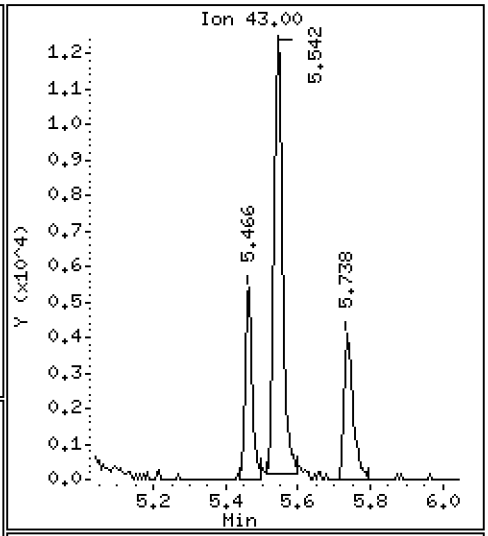
81 2-Hexanone Concentration: 3.92995 ug/L

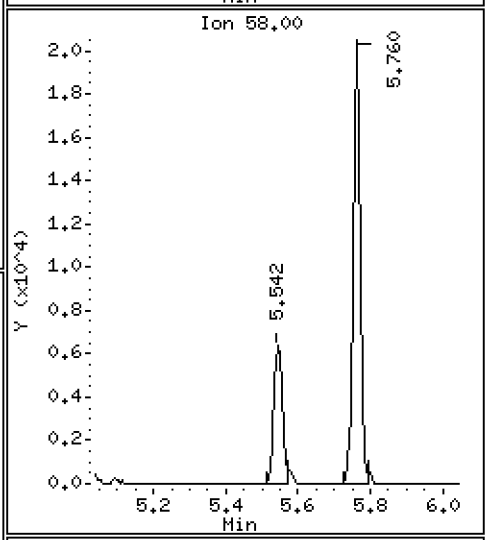


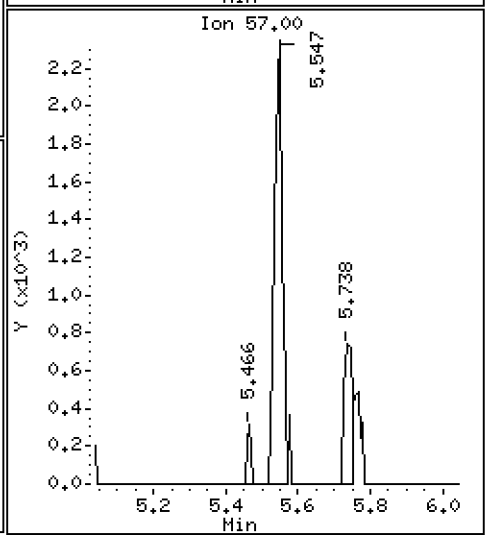












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 86

Date : 24-OCT-2016 23:46

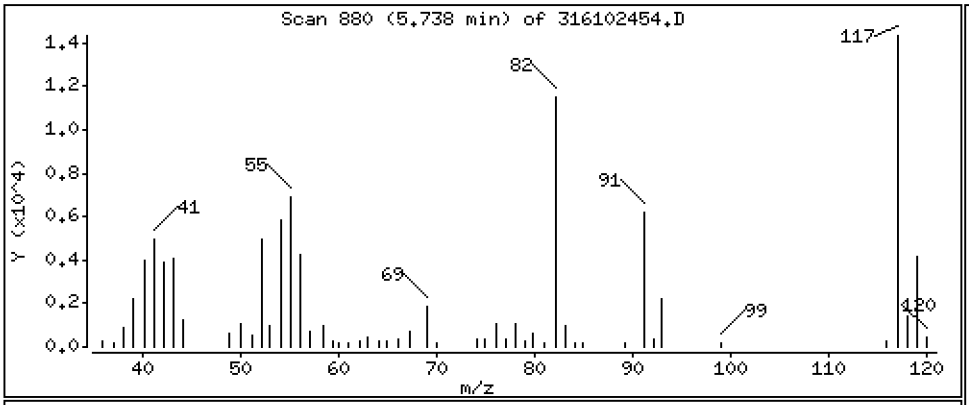
Client ID: Instrument: ms03.i

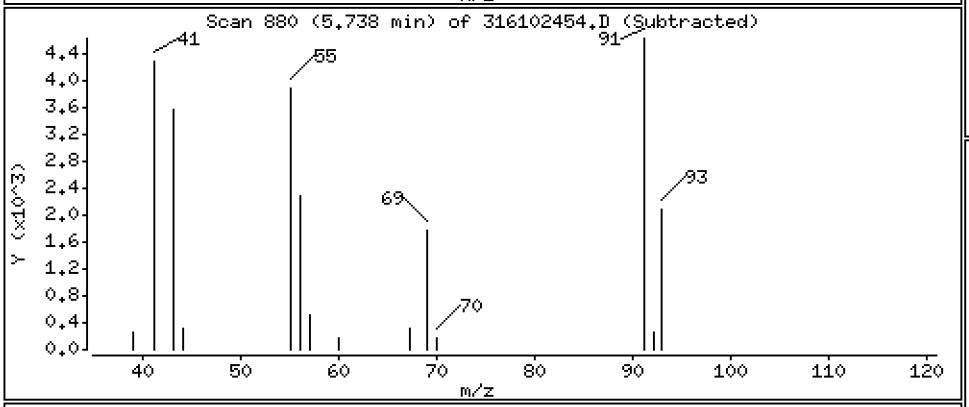
Sample Info: 1234;;1;1;1;;;

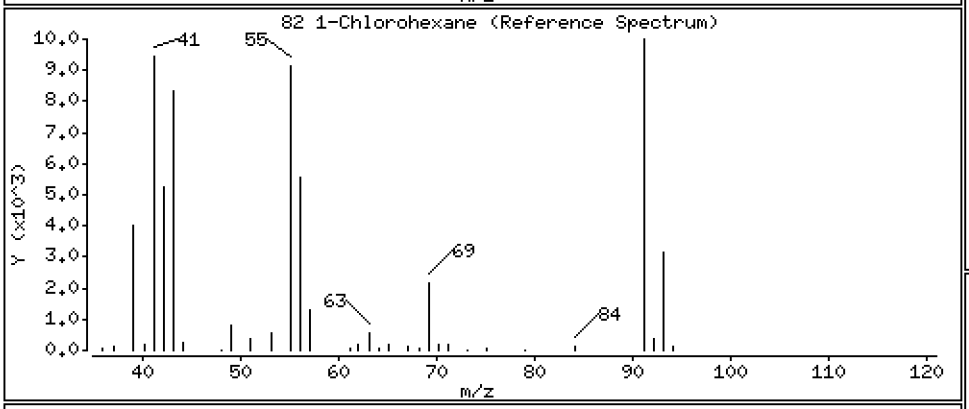
Purge Volume: 5.0 Operator: CJG

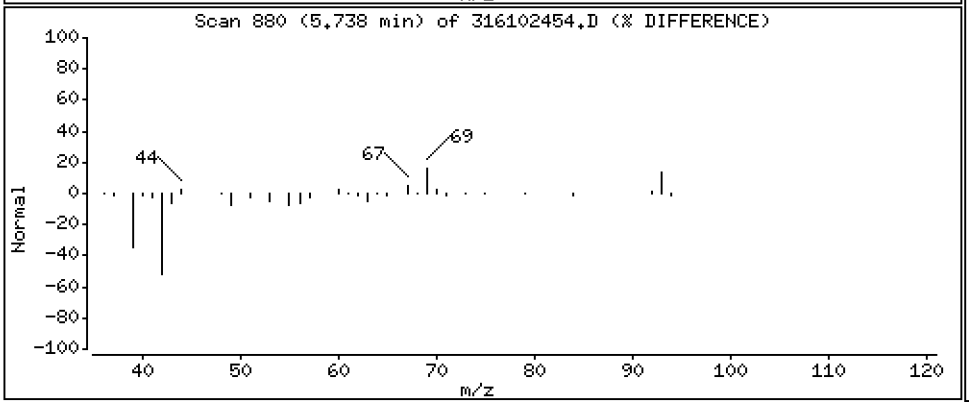
Column phase: DB-VRX Column diameter: 0.25

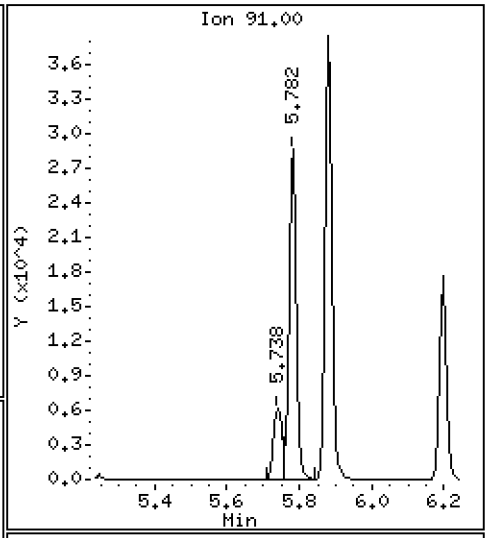
82 1-Chlorohexane Concentration: 0.980863 ug/L

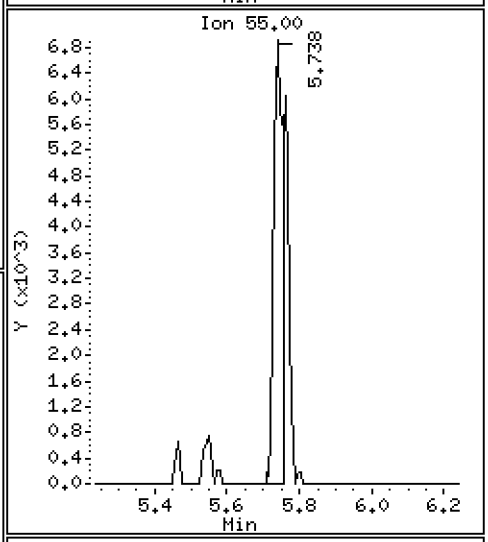


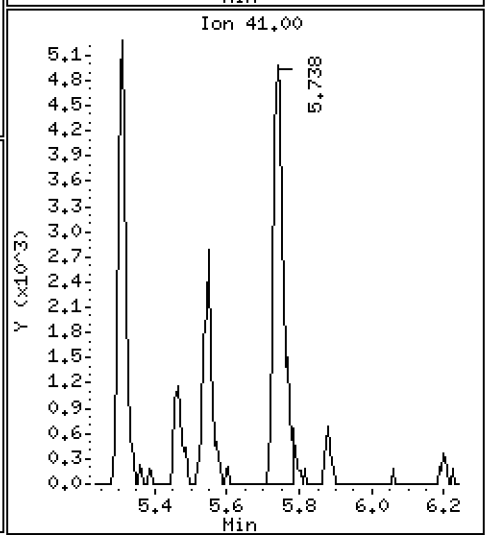












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 87

Date : 24-OCT-2016 23:46

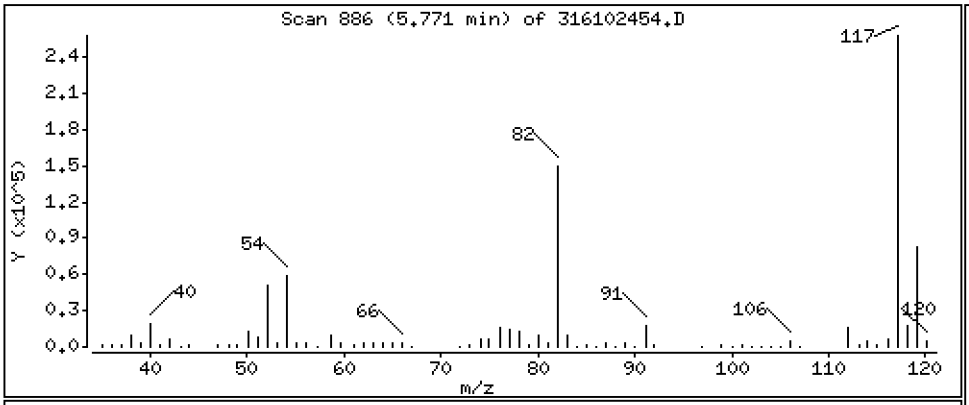
Client ID: Instrument: ms03.i

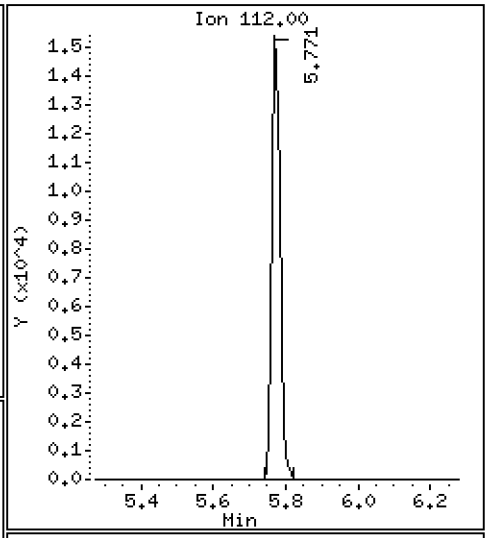
Sample Info: 1234;;1;1;1;;;

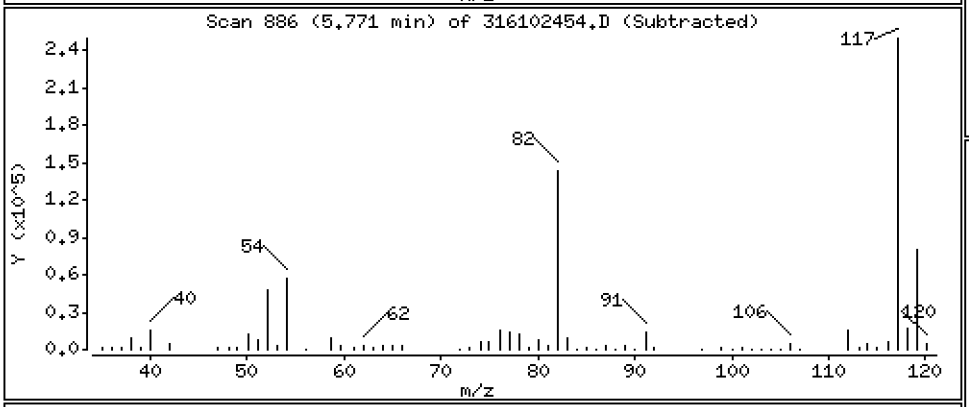
Purge Volume: 5.0 Operator: CJG

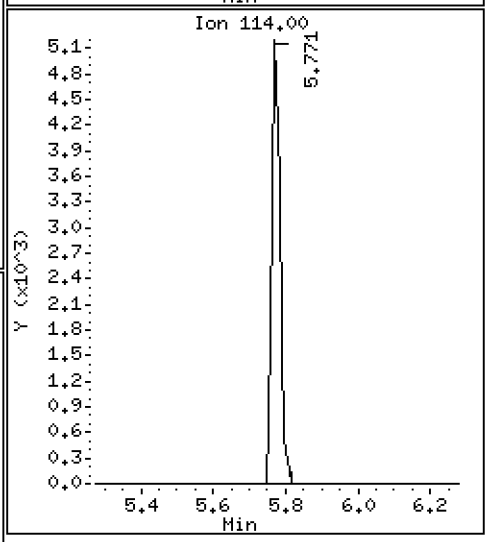
Column phase: DB-VRX Column diameter: 0.25

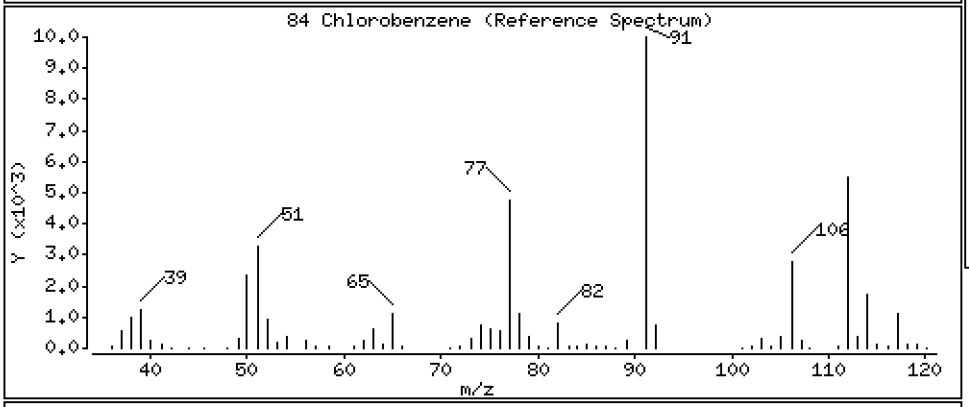
84 Chlorobenzene Concentration: 1.23546 ug/L

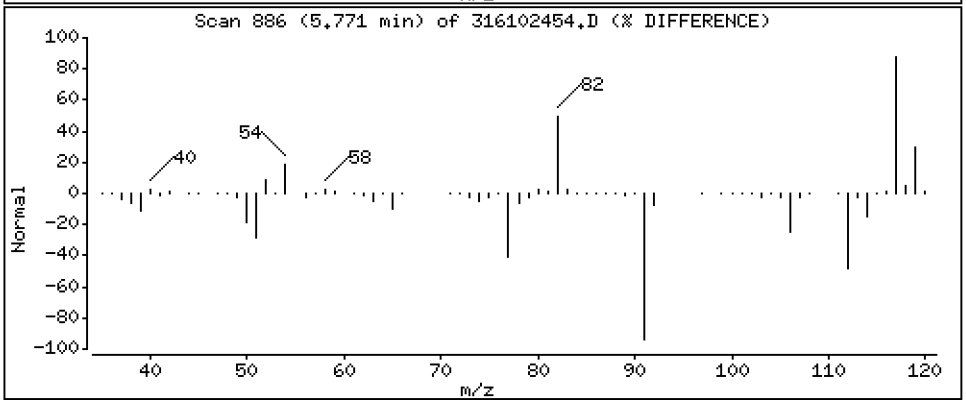












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 88

Date : 24-OCT-2016 23:46

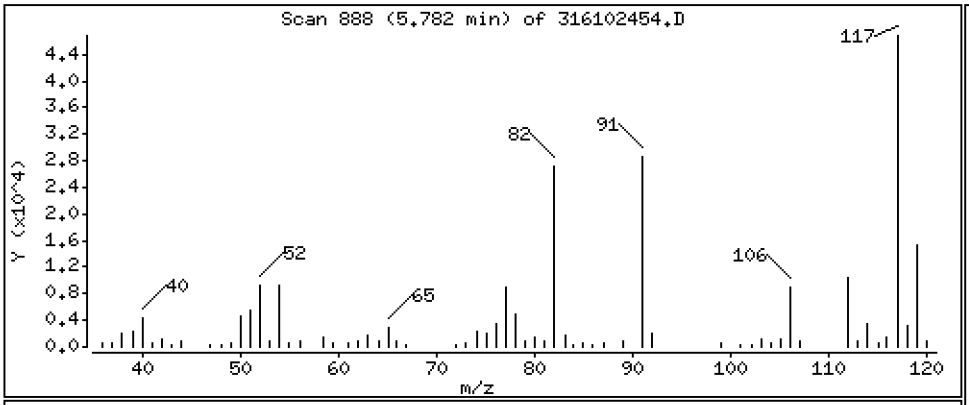
Client ID: Instrument: ms03.i

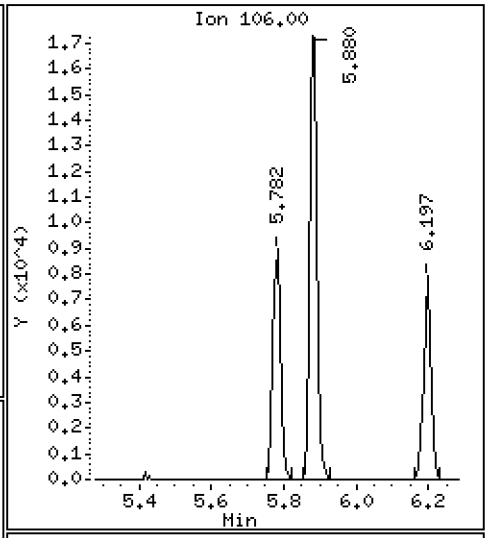
Sample Info: 1234;;1;1;1;;;

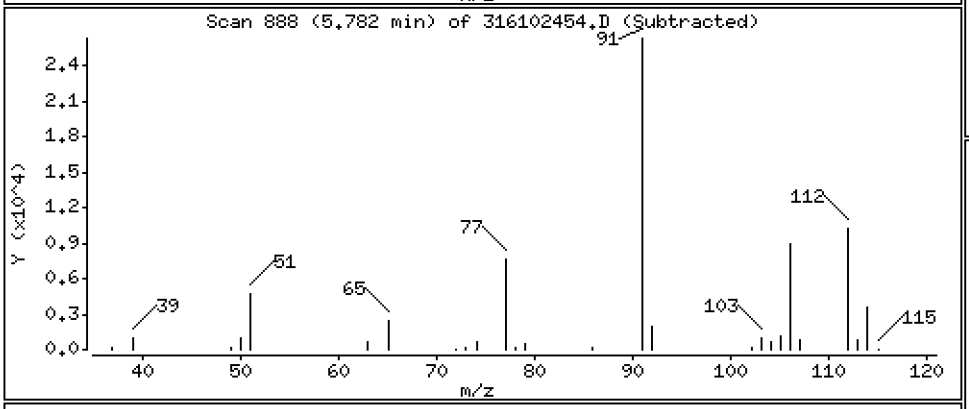
Purge Volume: 5.0 Operator: CJG

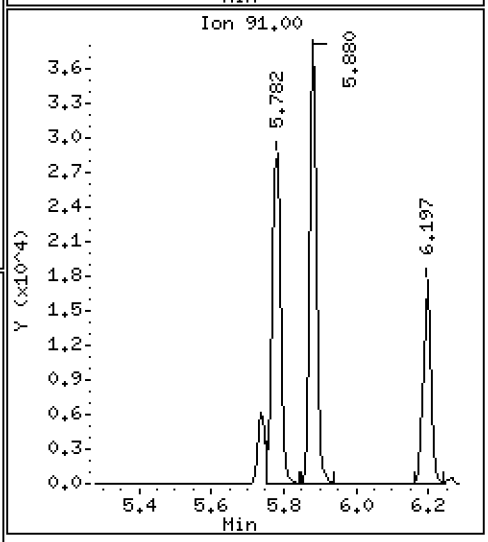
Column phase: DB-VRX Column diameter: 0.25

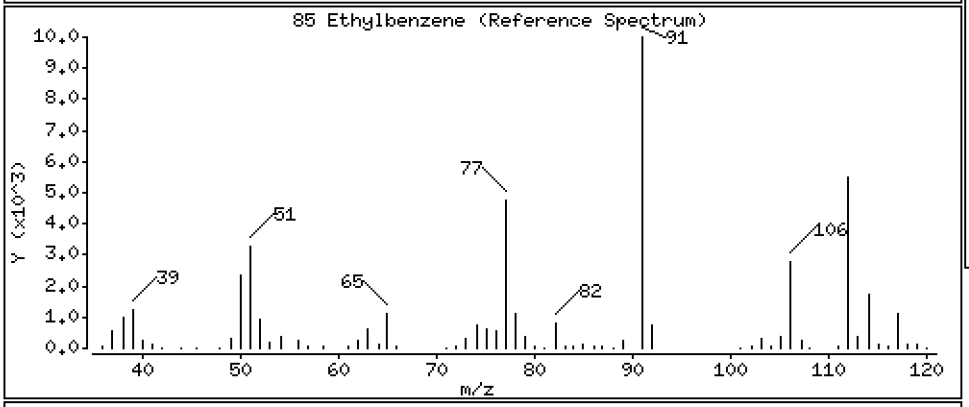
85 Ethylbenzene Concentration: 1.19109 ug/L

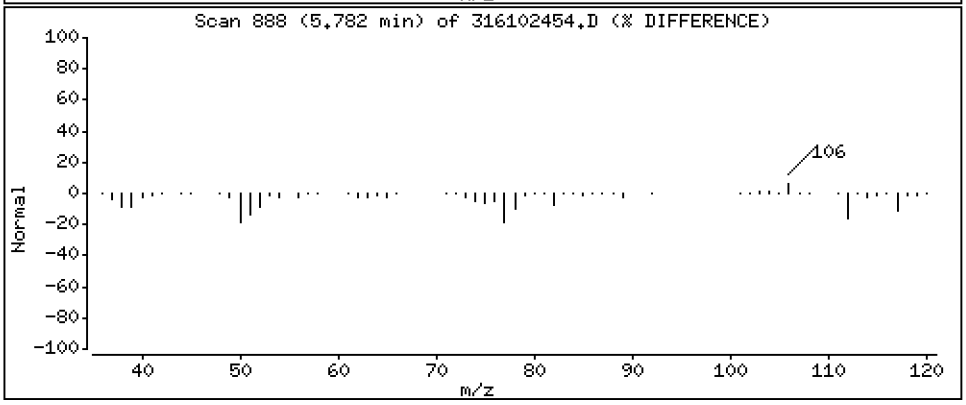












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 89

Date : 24-OCT-2016 23:46

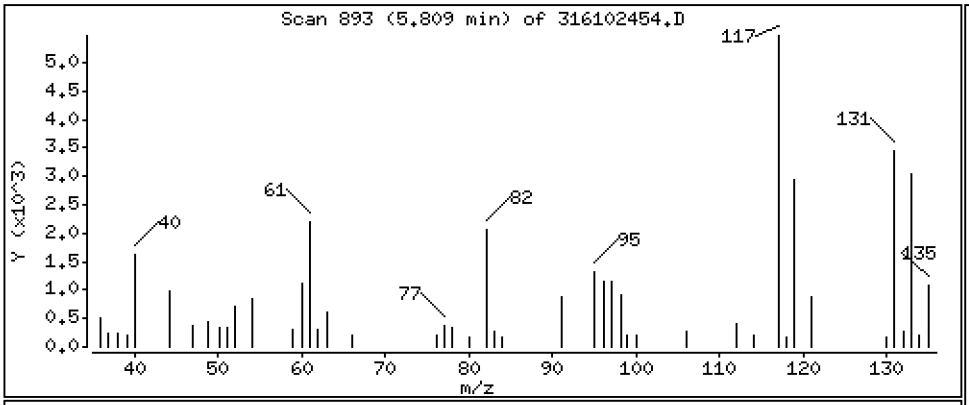
Client ID: Instrument: ms03.i

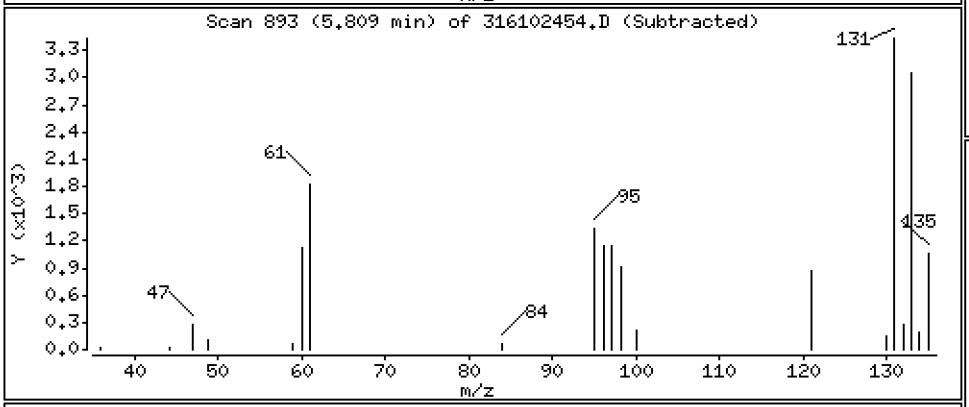
Sample Info: 1234;;1;1;1;;;

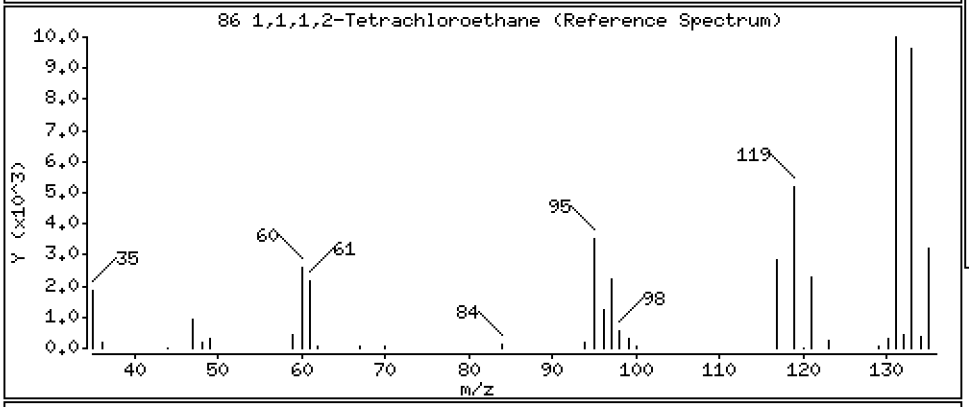
Purge Volume: 5.0 Operator: CJG

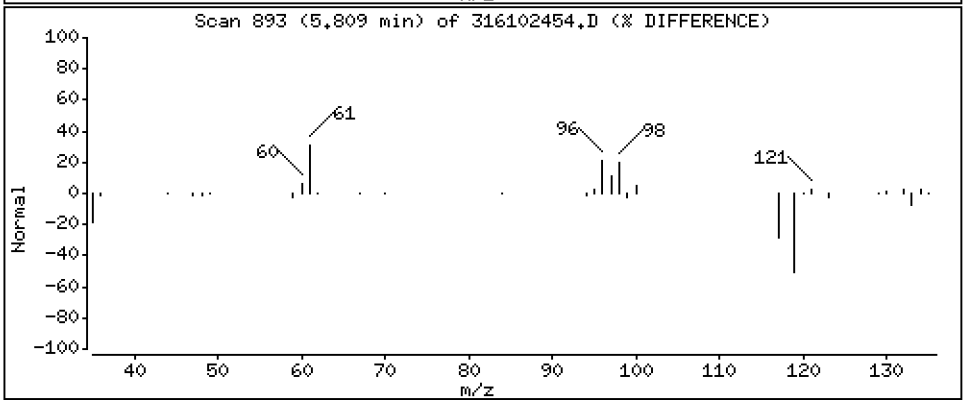
Column phase: DB-VRX Column diameter: 0.25

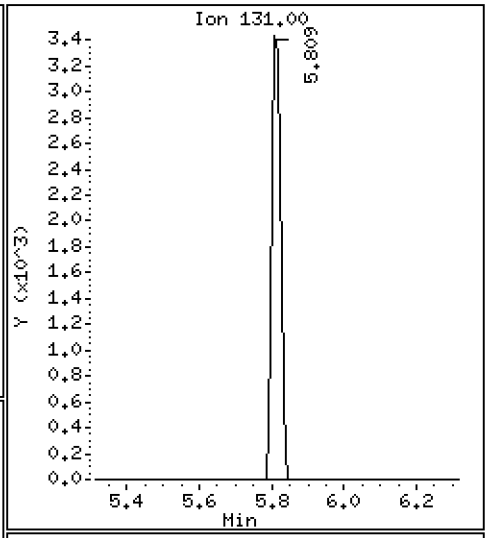
86 1,1,1,2-Tetrachloroethane Concentration: 0.975800 ug/L

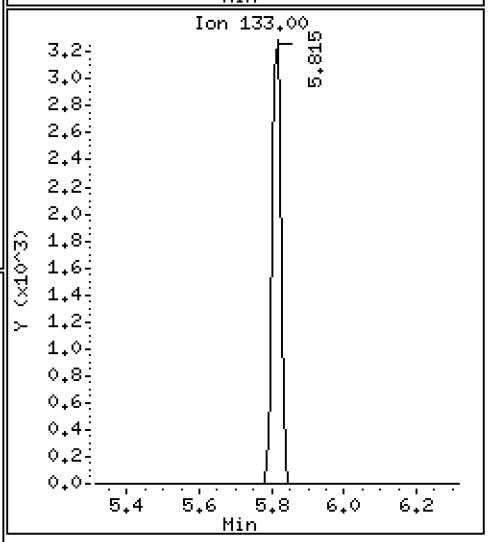












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 90

Date : 24-OCT-2016 23:46

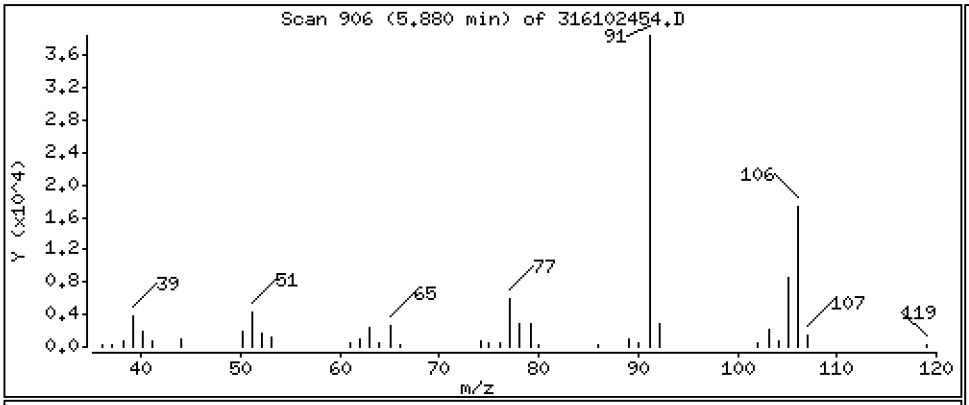
Client ID: Instrument: ms03.i

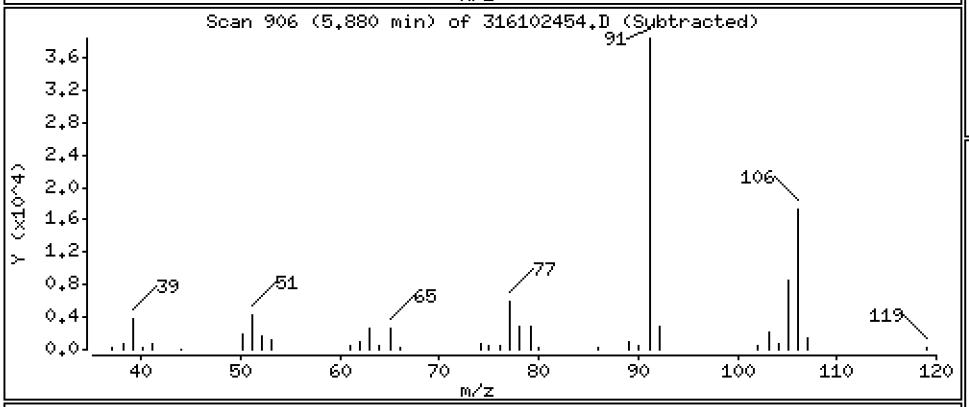
Sample Info: 1234;;1;1;1;;;

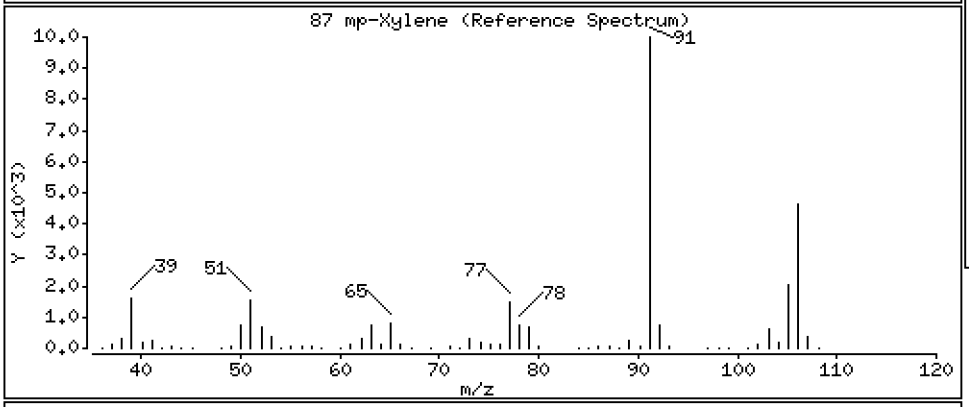
Purge Volume: 5.0 Operator: CJG

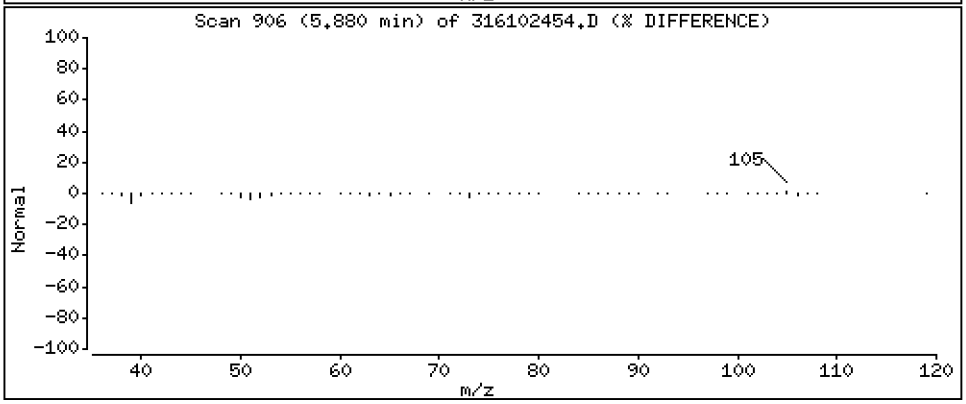
Column phase: DB-VRX Column diameter: 0.25

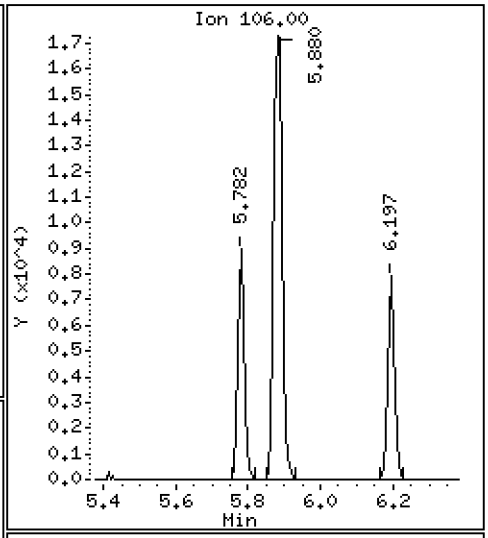
87 mp-Xylene Concentration: 2.13355 ug/L

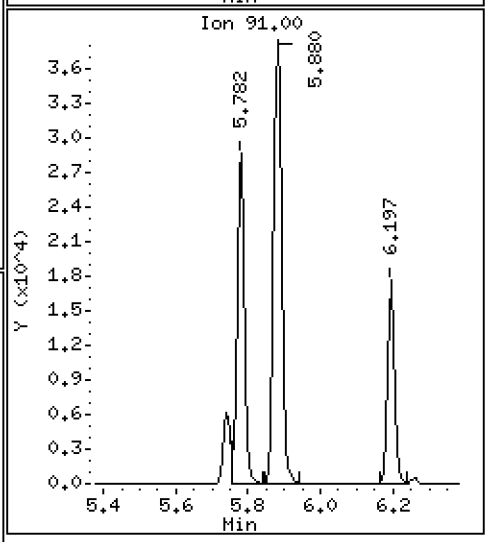












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 91

Date : 24-OCT-2016 23:46

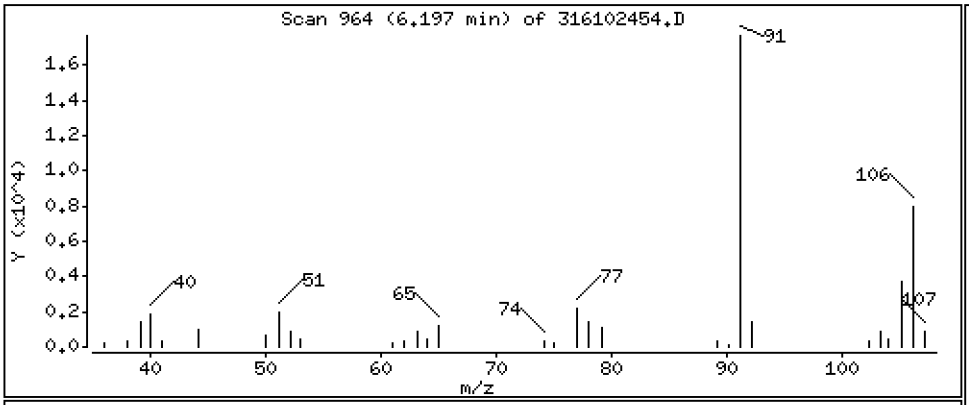
Client ID: Instrument: ms03.i

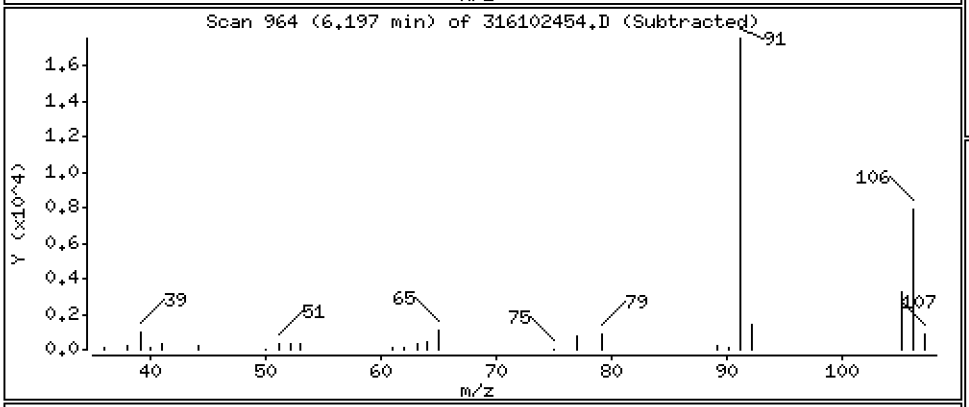
Sample Info: 1234;;1;1;1;;;

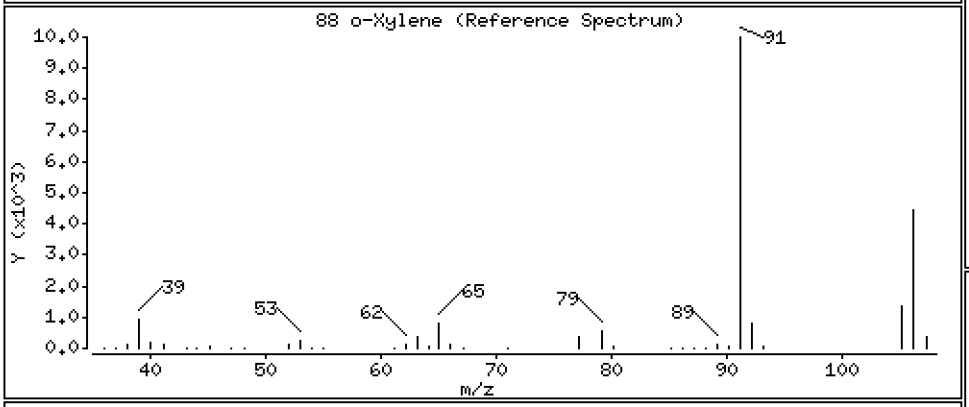
Purge Volume: 5.0 Operator: CJG

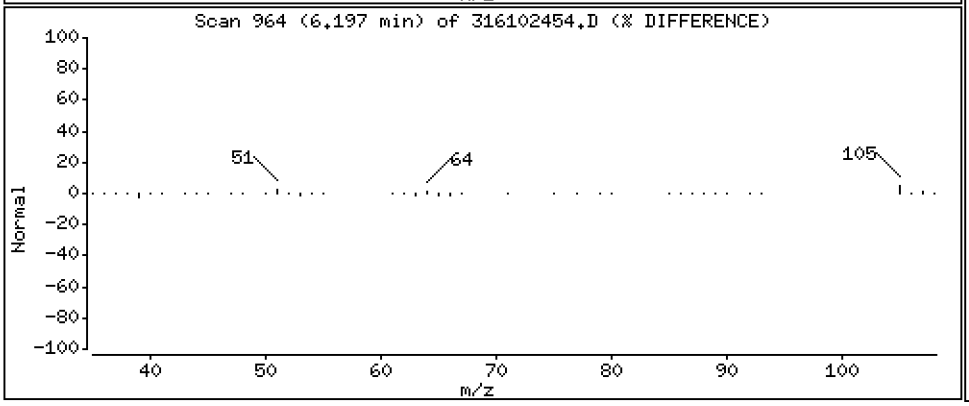
Column phase: DB-VRX Column diameter: 0.25

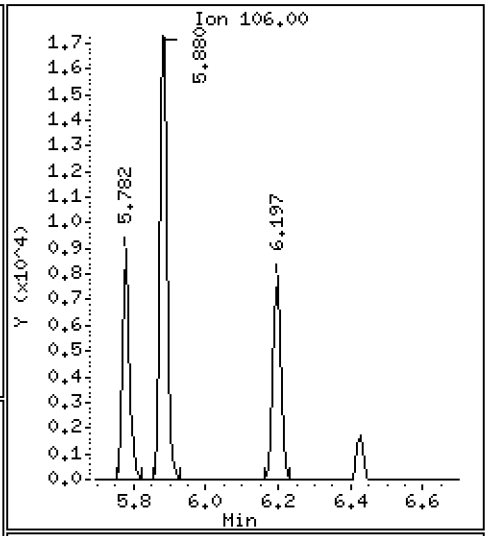
88 o-Xylene Concentration: 0.940086 ug/L

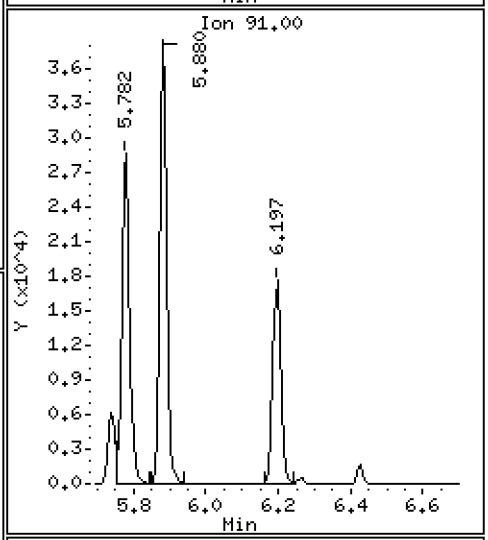


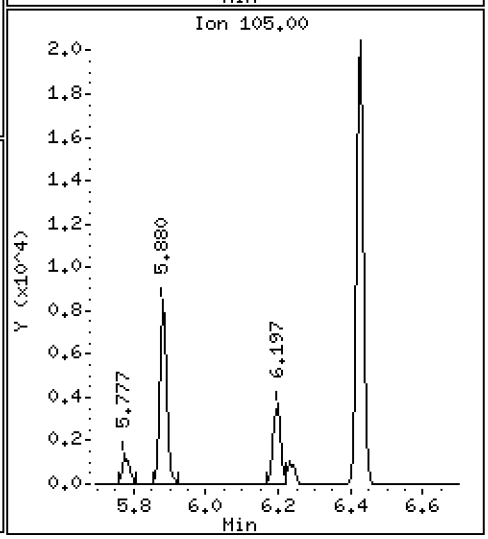












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 92

Date : 24-OCT-2016 23:46

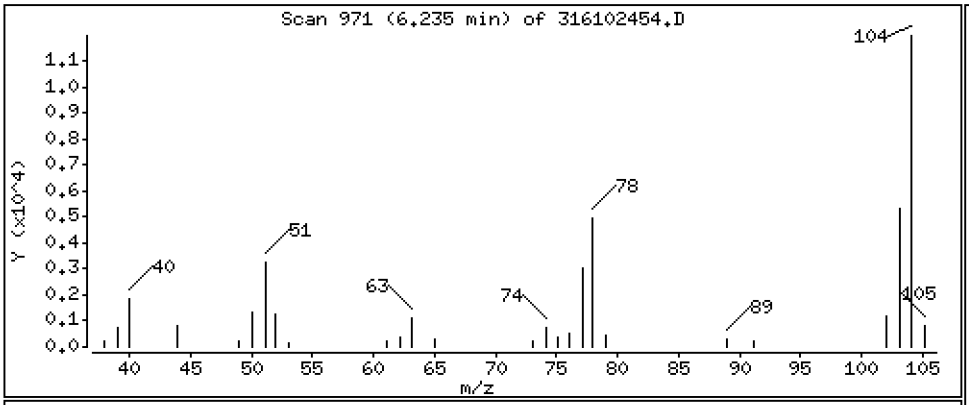
Client ID: Instrument: ms03.i

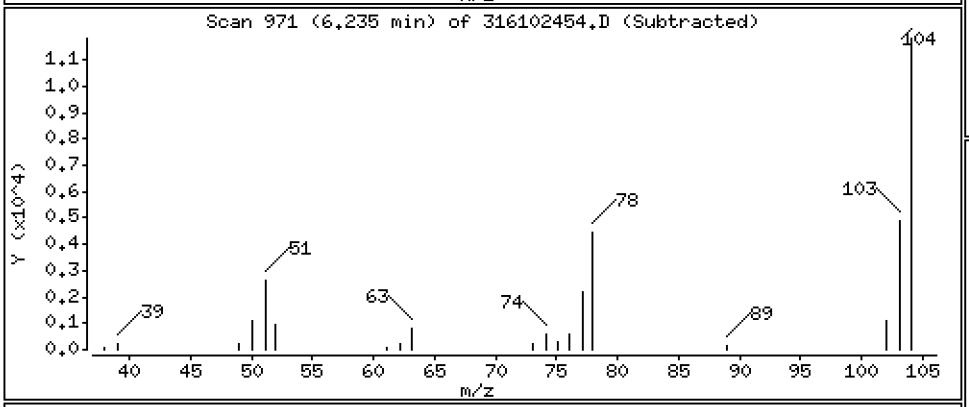
Sample Info: 1234;;1;1;1;;;

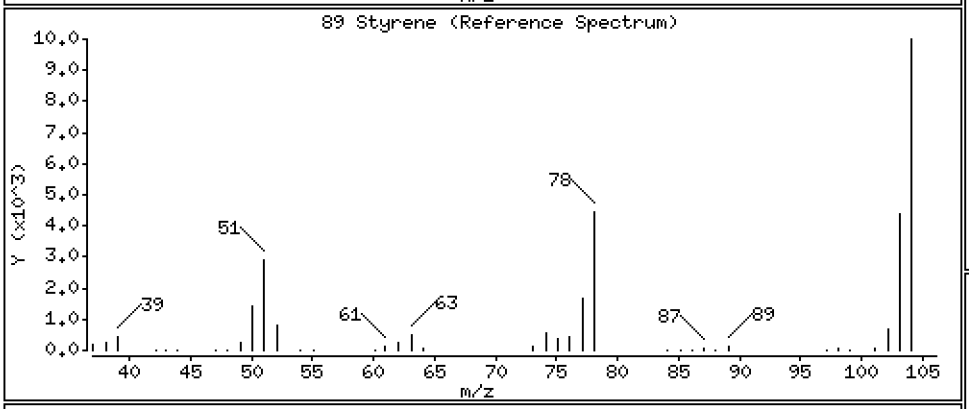
Purge Volume: 5.0 Operator: CJG

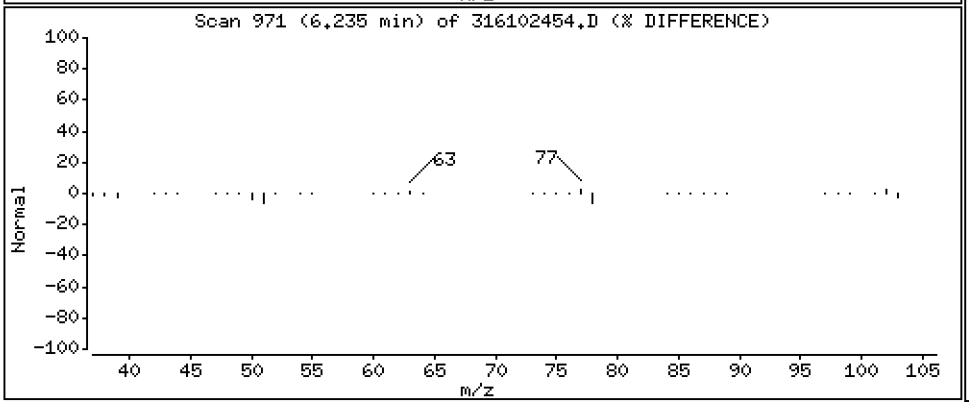
Column phase: DB-VRX Column diameter: 0.25

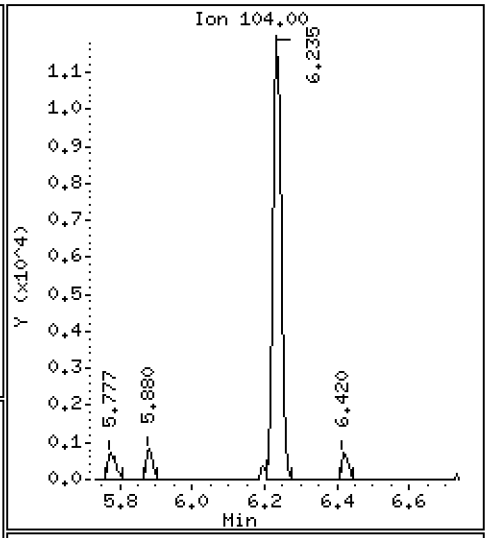
89 Styrene Concentration: 0.928161 ug/L

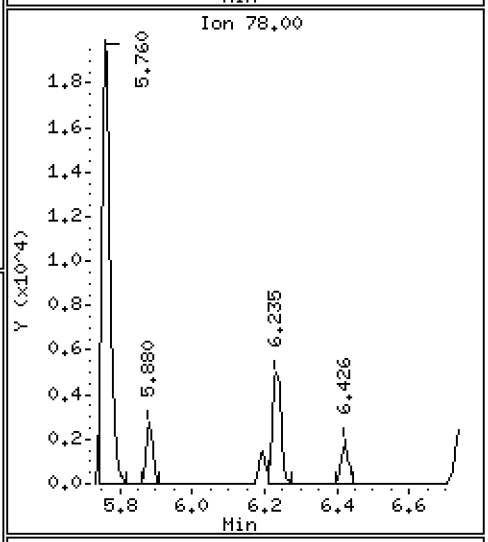


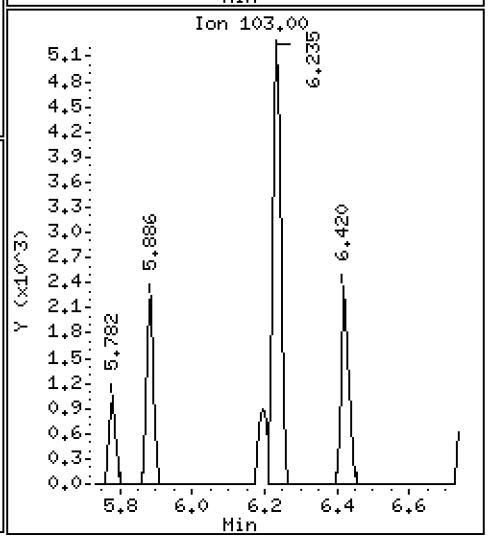












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 93

Date : 24-OCT-2016 23:46

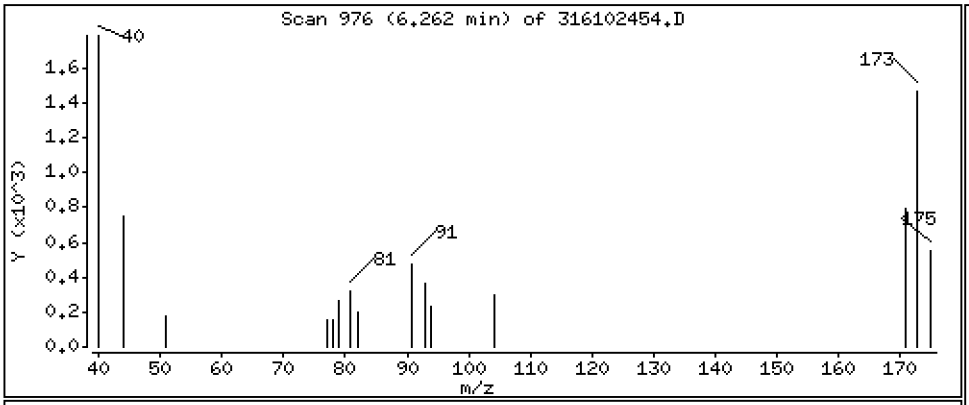
Client ID: Instrument: ms03.i

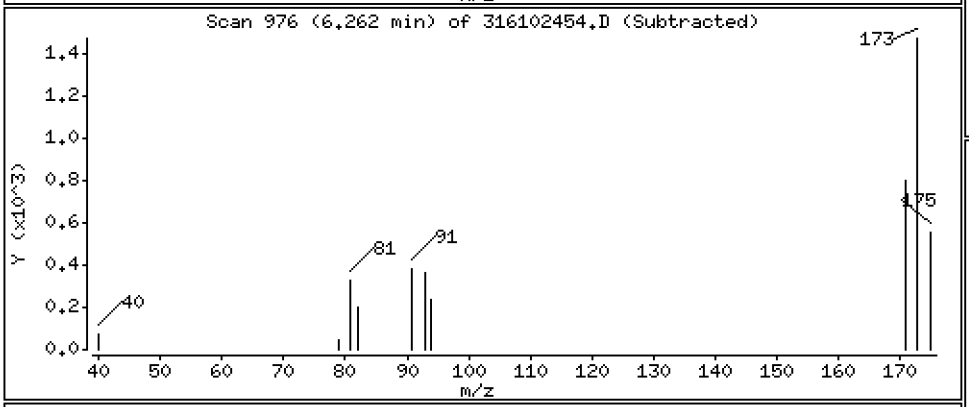
Sample Info: 1234;;1;1;1;;;

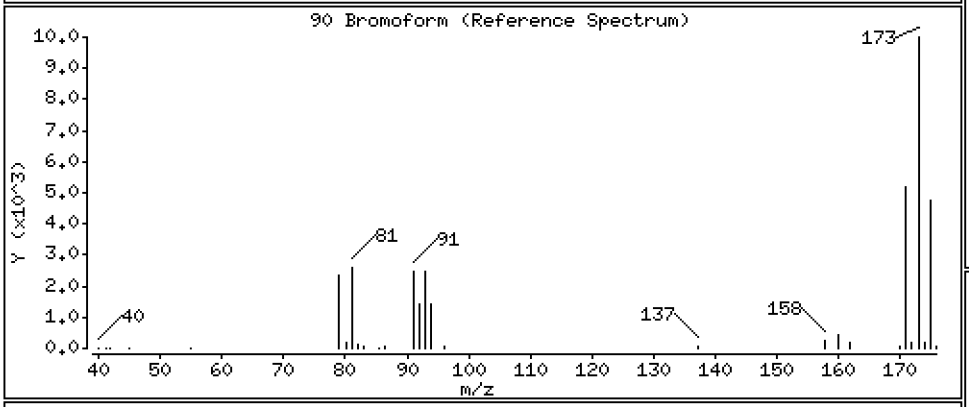
Purge Volume: 5.0 Operator: CJG

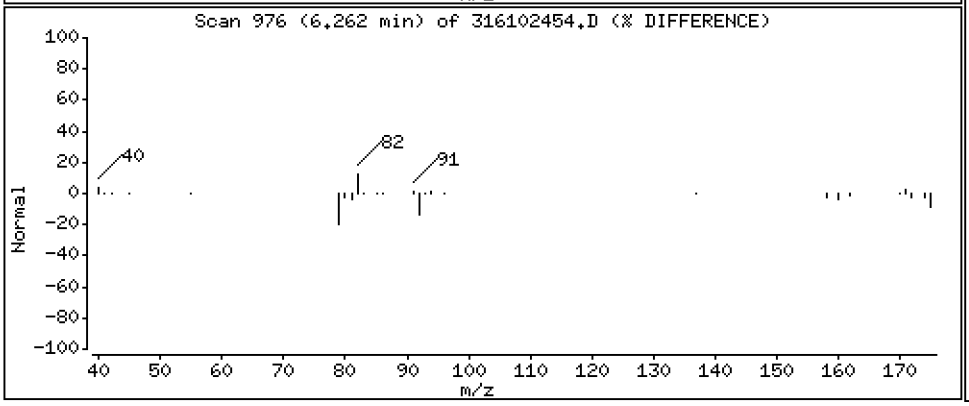
Column phase: DB-VRX Column diameter: 0.25

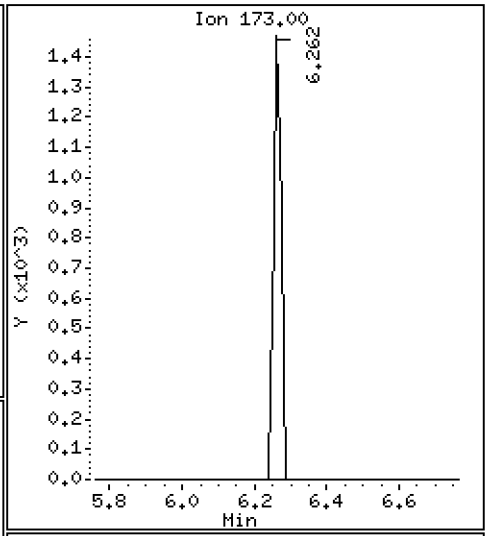
90 Bromoform Concentration: 0.859227 ug/L

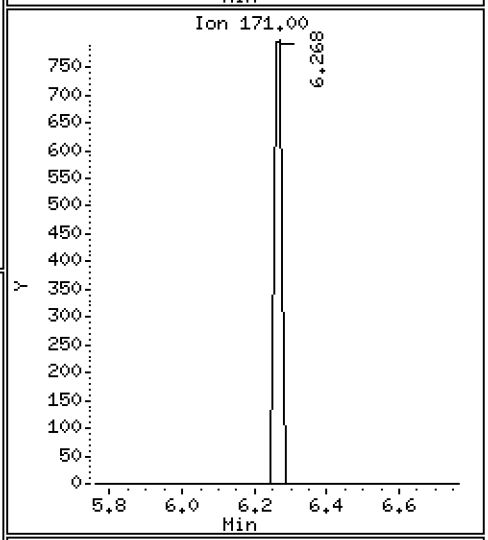


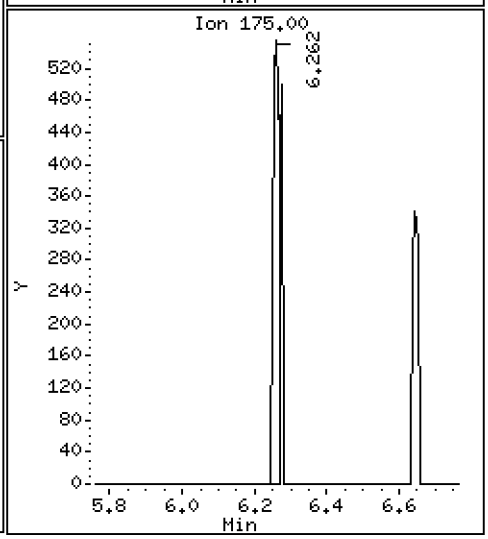












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 94

Date : 24-OCT-2016 23:46

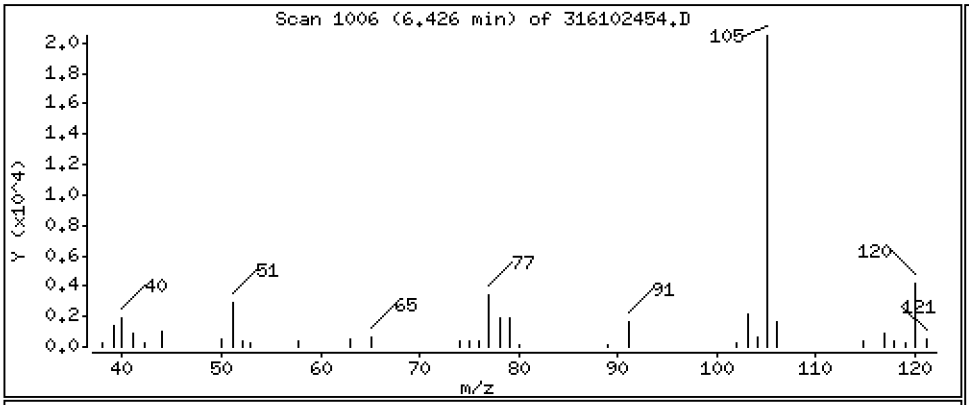
Client ID: Instrument: ms03.i

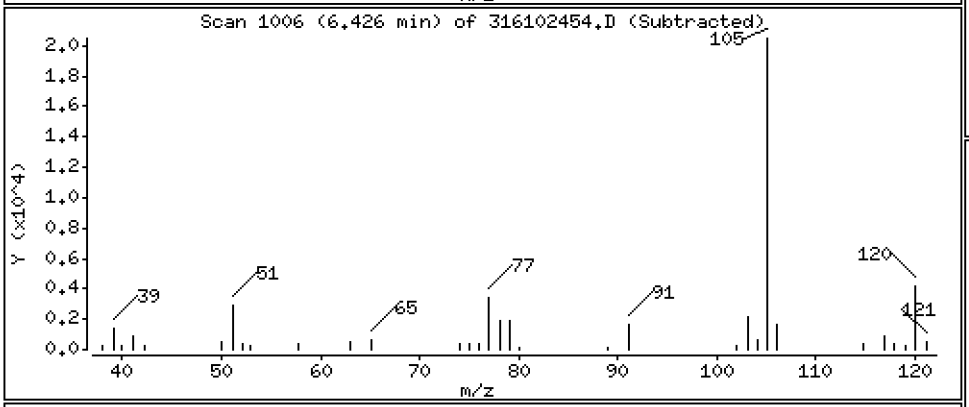
Sample Info: 1234;;1;1;1;;;

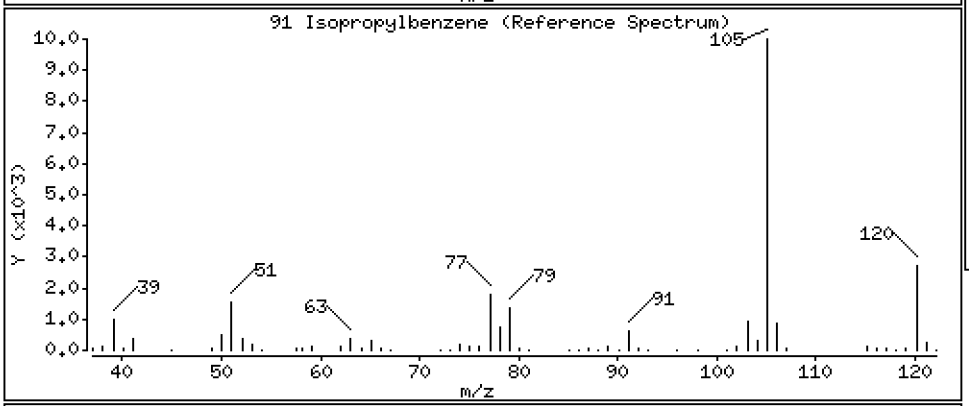
Purge Volume: 5.0 Operator: CJG

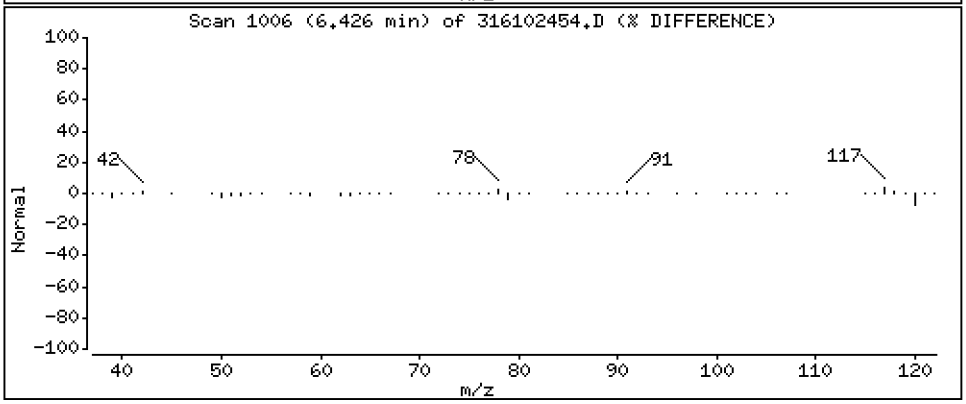
Column phase: DB-VRX Column diameter: 0.25

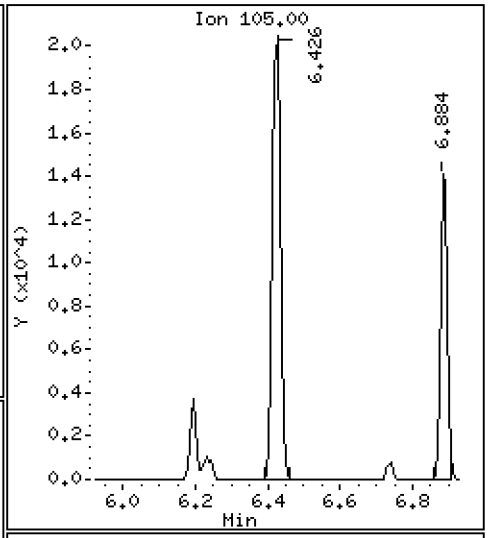
91 Isopropylbenzene Concentration: 1.05547 ug/L

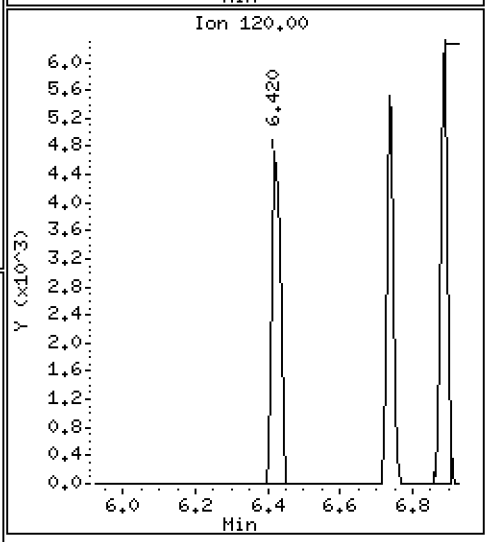












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 95

Date : 24-OCT-2016 23:46

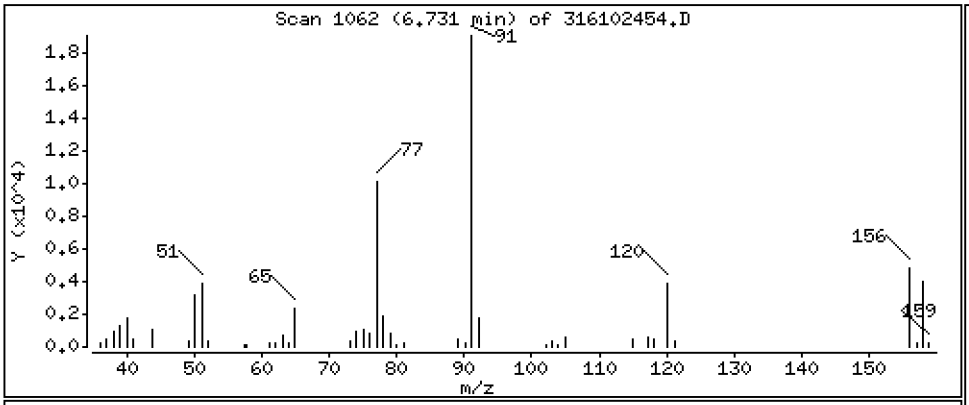
Client ID: Instrument: ms03.i

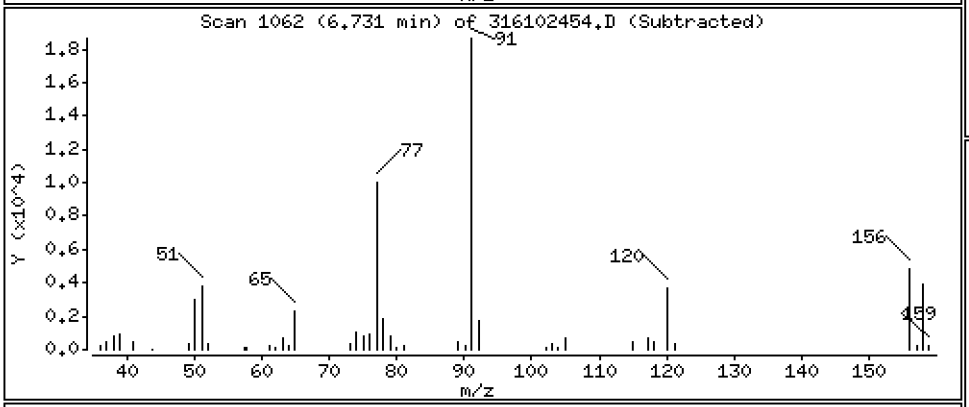
Sample Info: 1234;;1;1;1;;;

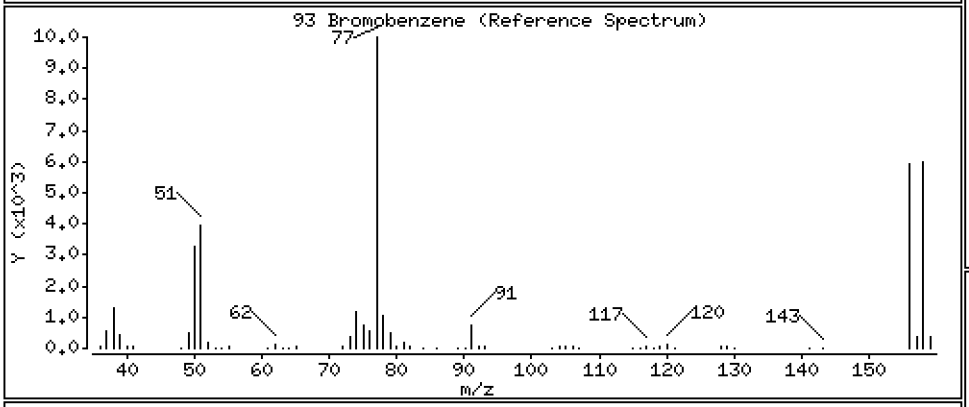
Purge Volume: 5.0 Operator: CJG

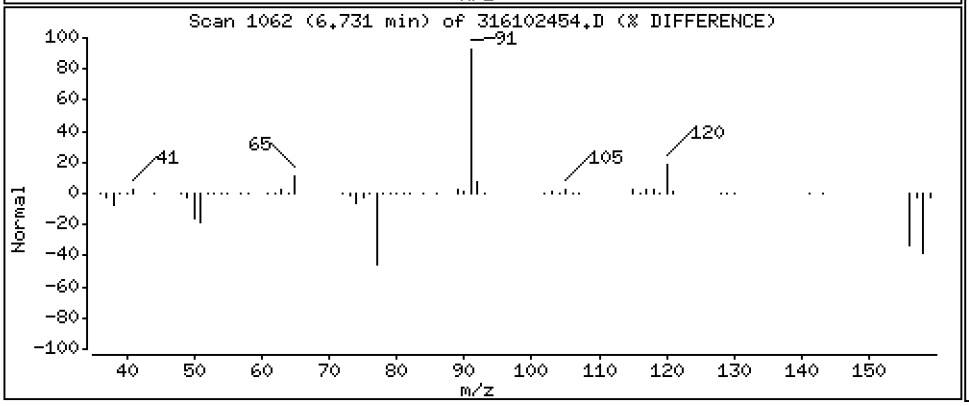
Column phase: DB-VRX Column diameter: 0.25

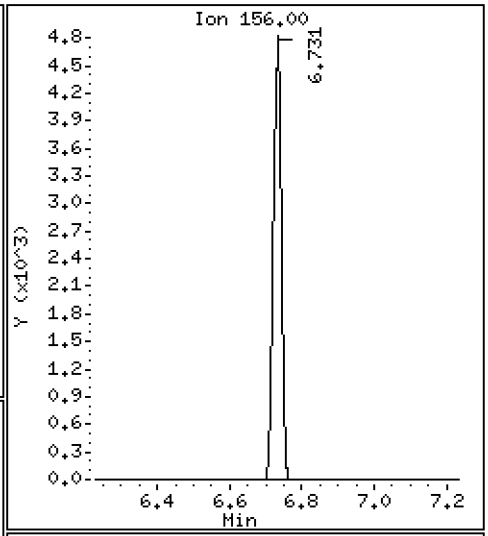
93 Bromobenzene Concentration: 1.16866 ug/L

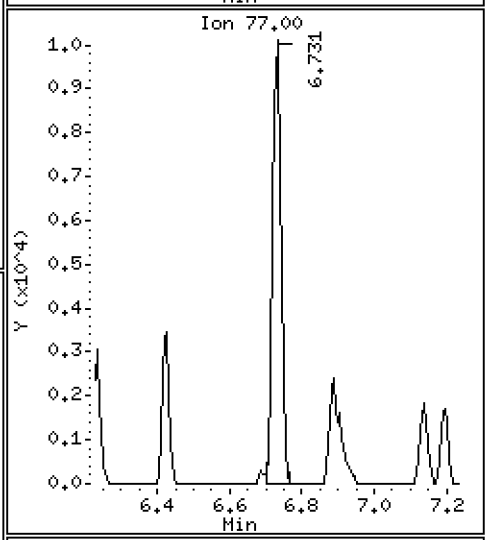


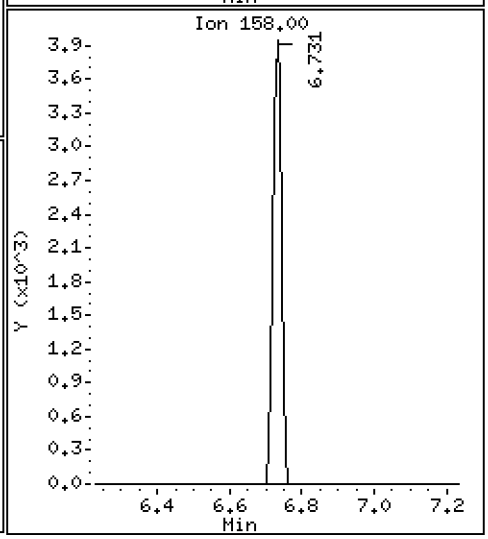












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 96

Date : 24-OCT-2016 23:46

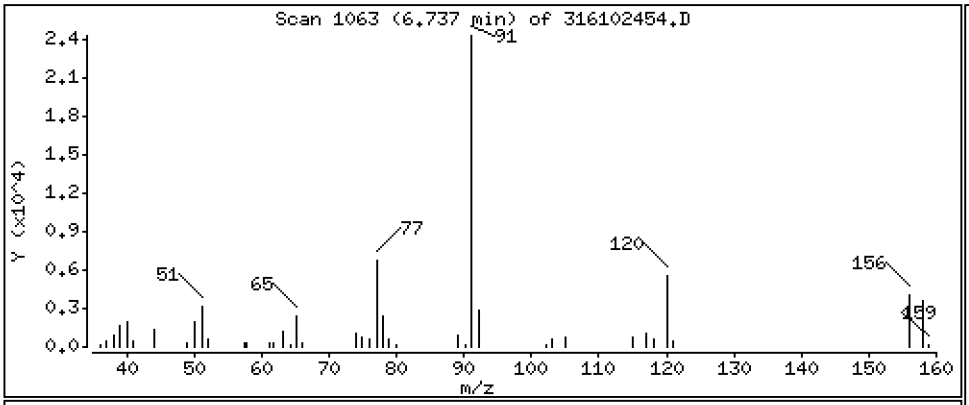
Client ID: Instrument: ms03.i

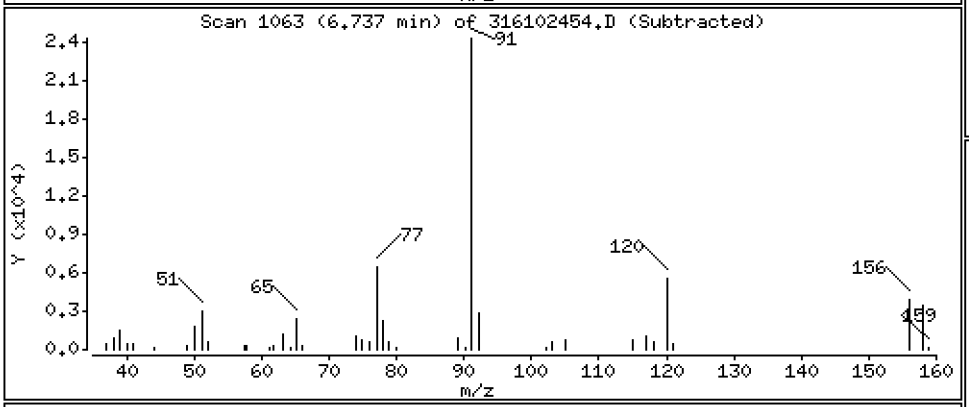
Sample Info: 1234;;1;1;1;;;

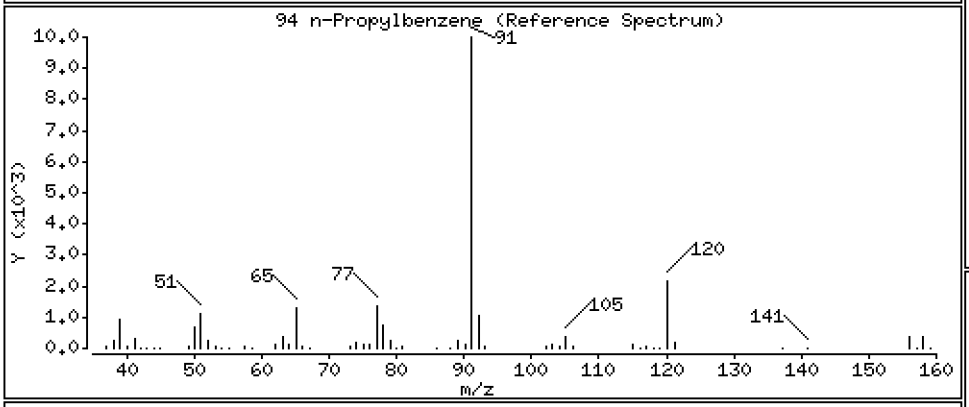
Purge Volume: 5.0 Operator: CJG

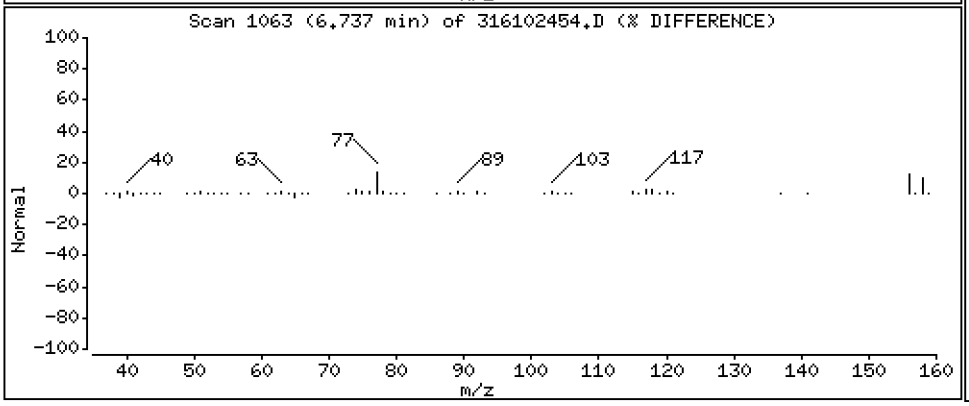
Column phase: DB-VRX Column diameter: 0.25

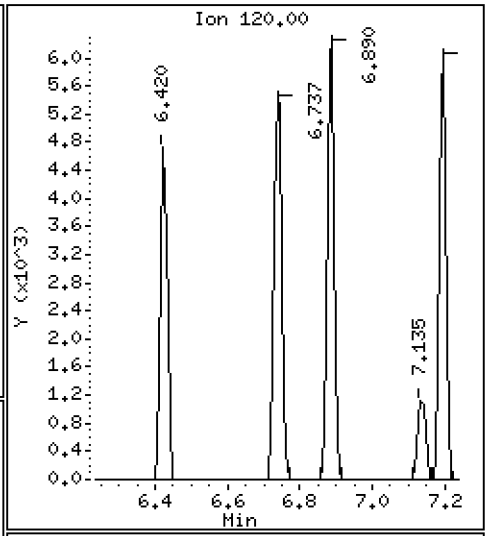
94 n-Propylbenzene Concentration: 1.05421 ug/L

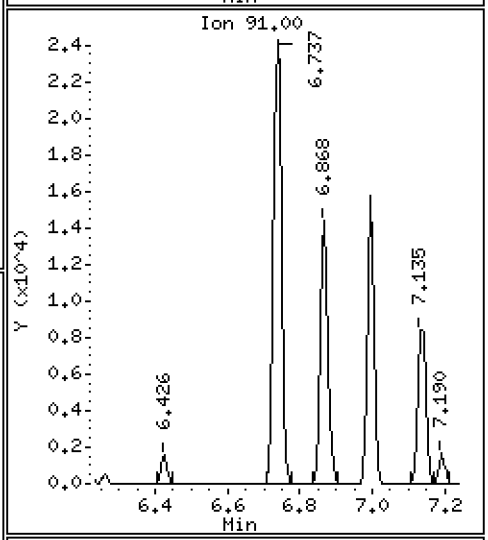


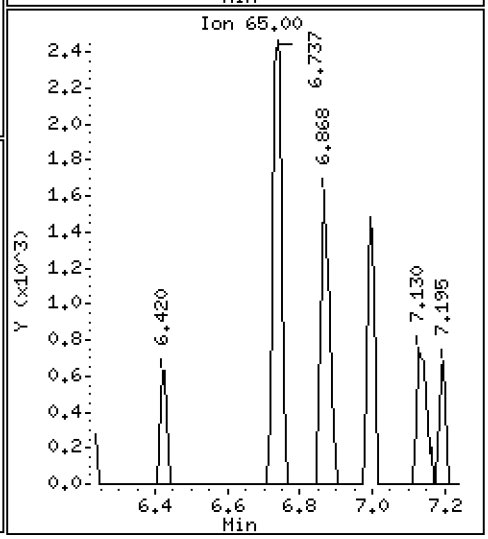












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 97

Date : 24-OCT-2016 23:46

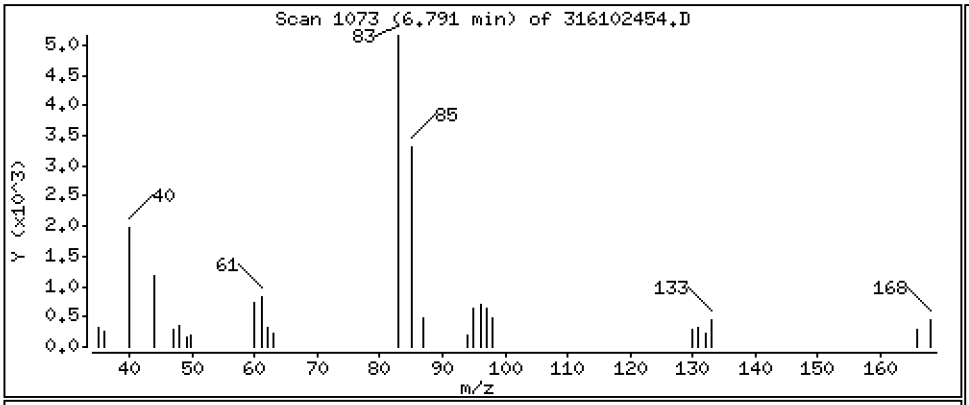
Client ID: Instrument: ms03.i

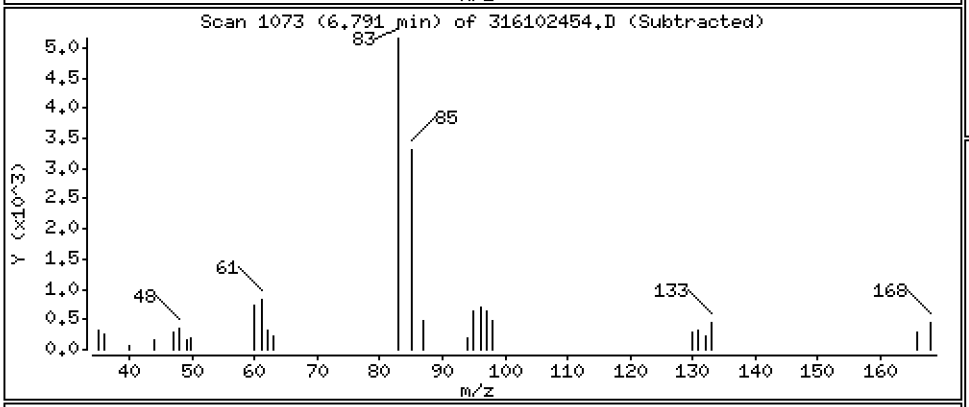
Sample Info: 1234;;1;1;1;;;

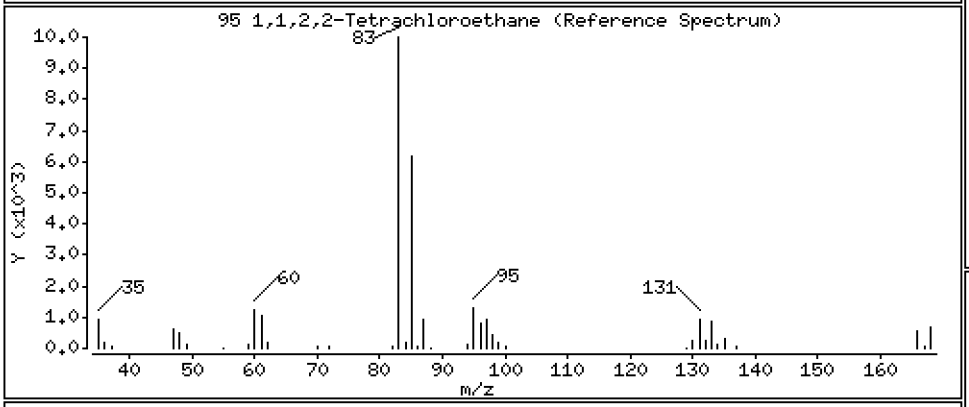
Purge Volume: 5.0 Operator: CJG

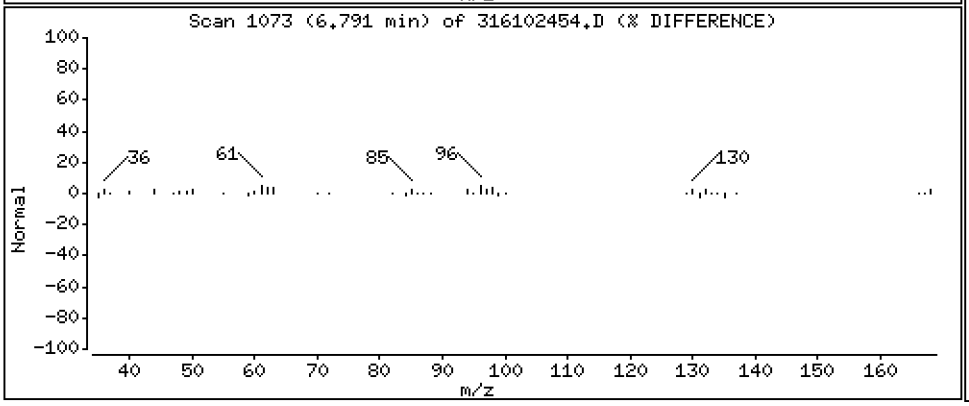
Column phase: DB-VRX Column diameter: 0.25

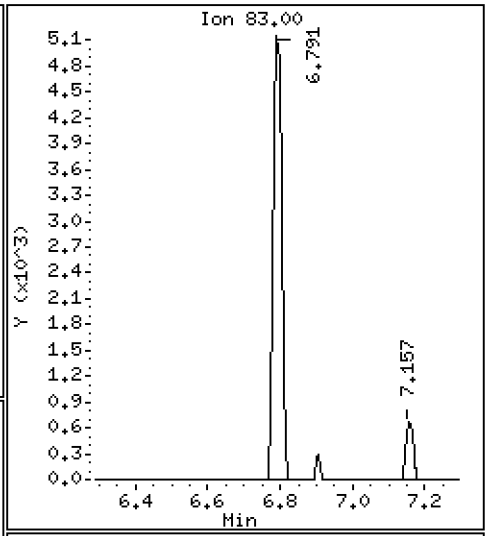
95 1,1,2,2-Tetrachloroethane Concentration: 1.12588 ug/L

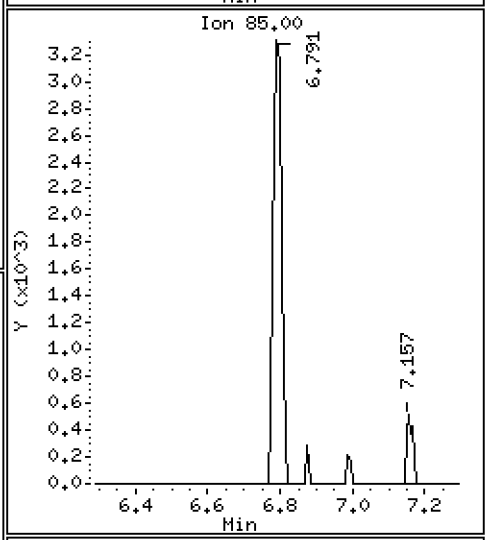


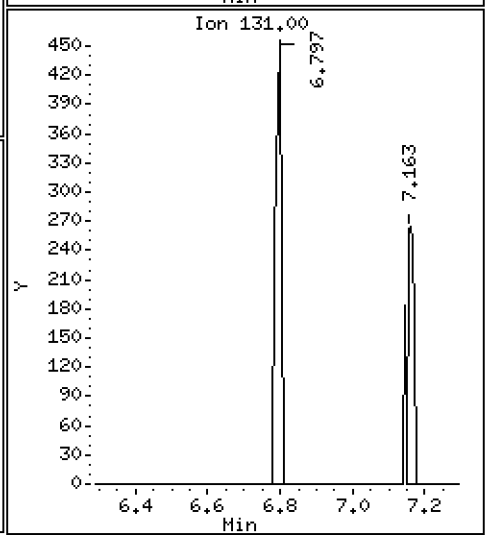












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 98

Date : 24-OCT-2016 23:46

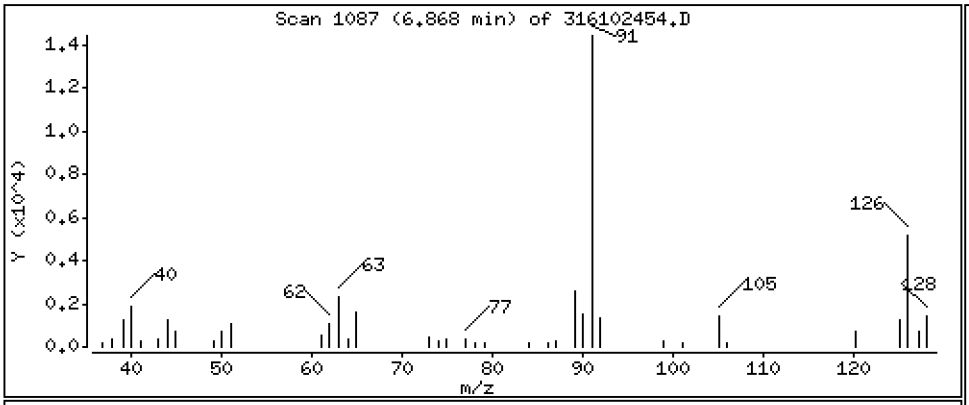
Client ID: Instrument: ms03.i

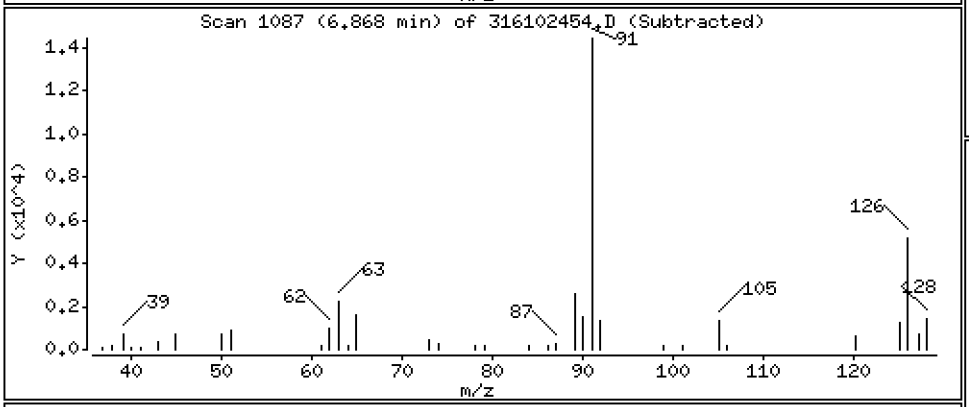
Sample Info: 1234;;1;1;1;;;

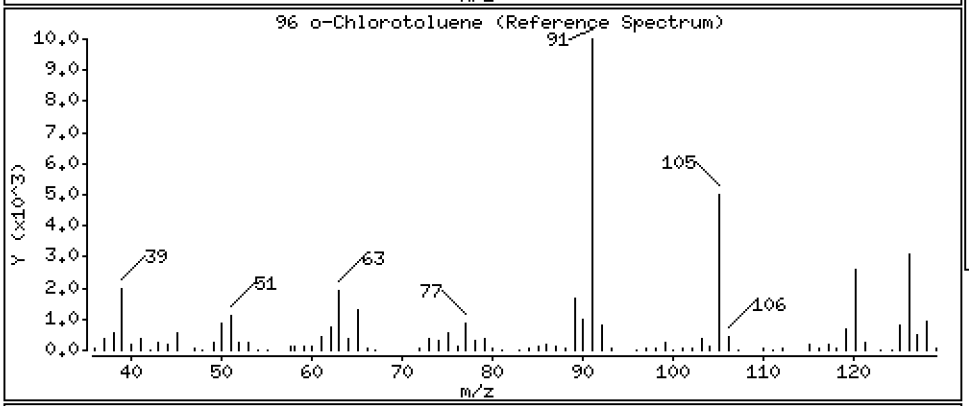
Purge Volume: 5.0 Operator: CJG

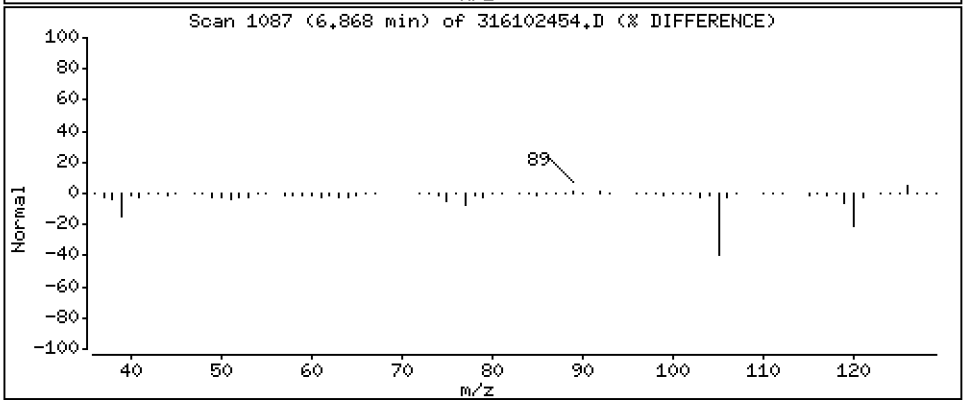
Column phase: DB-VRX Column diameter: 0.25

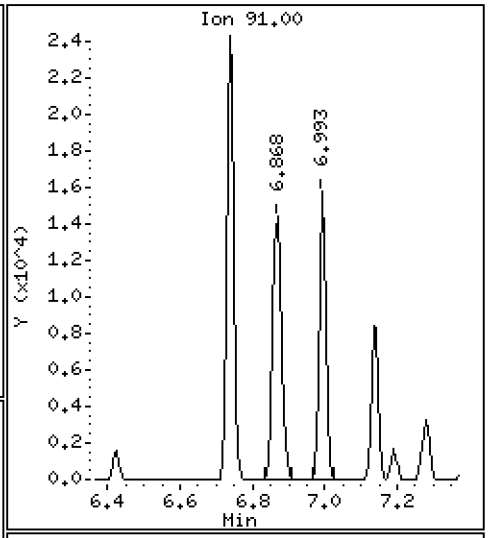
96 o-Chlorotoluene Concentration: 1.04174 ug/L

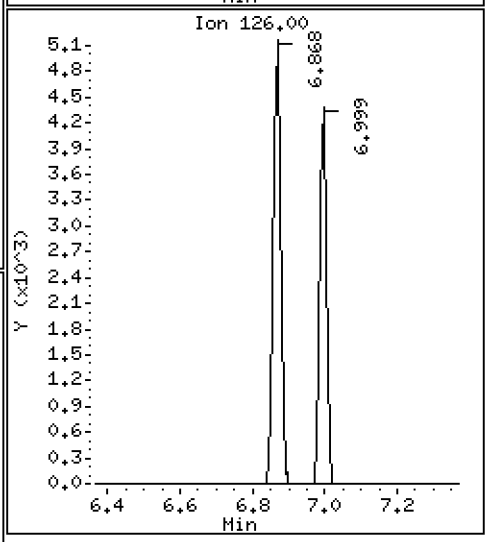












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 99

Date : 24-OCT-2016 23:46

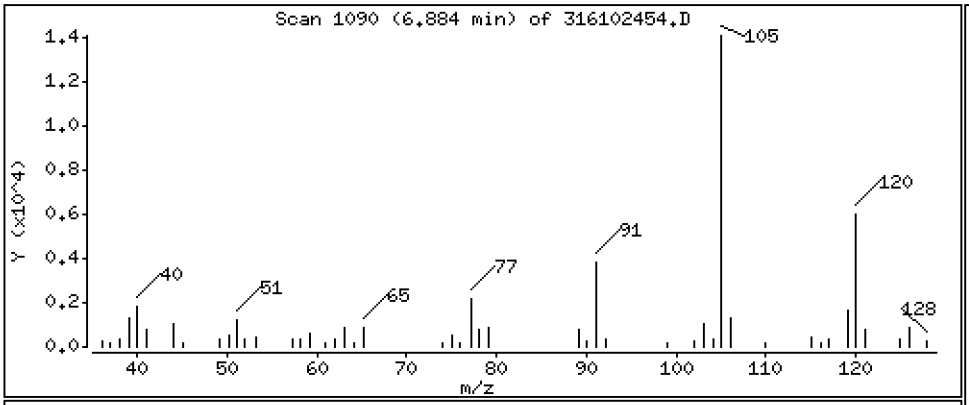
Client ID: Instrument: ms03.i

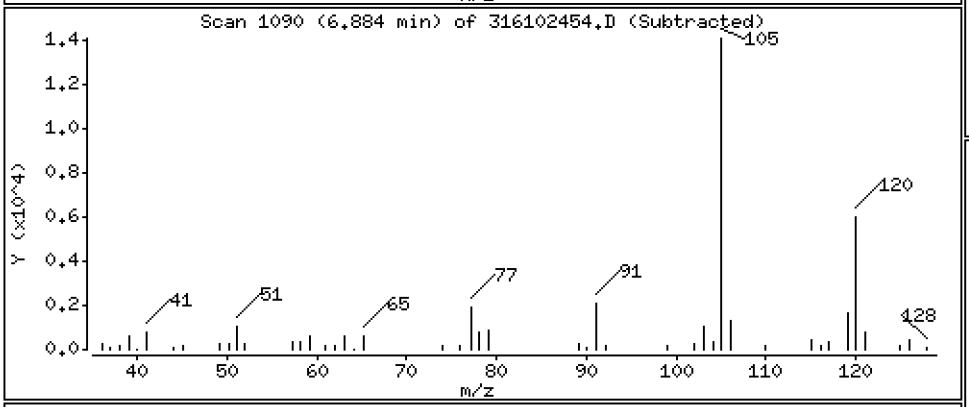
Sample Info: 1234;;1;1;1;;;

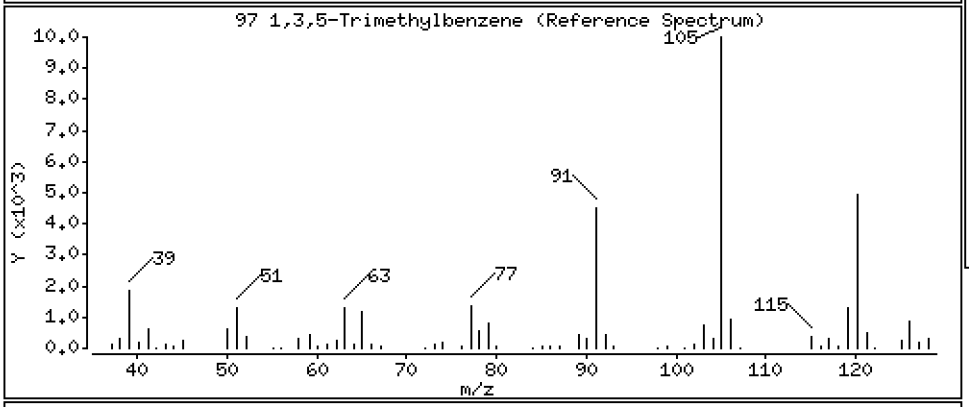
Purge Volume: 5.0 Operator: CJG

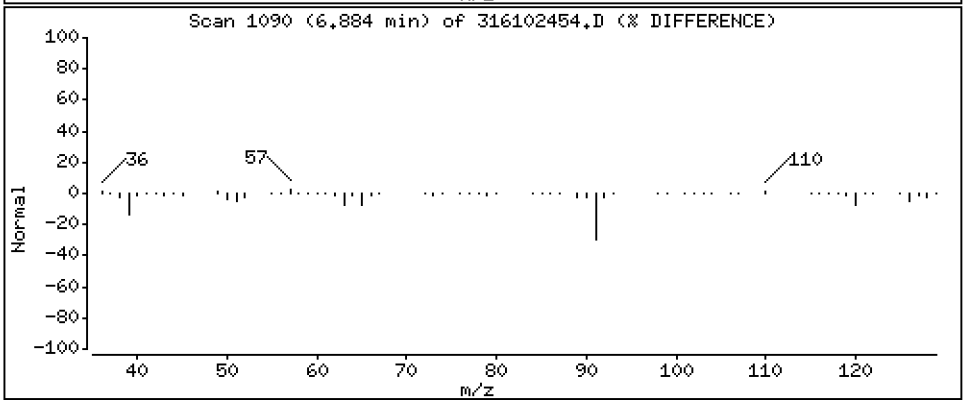
Column phase: DB-VRX Column diameter: 0.25

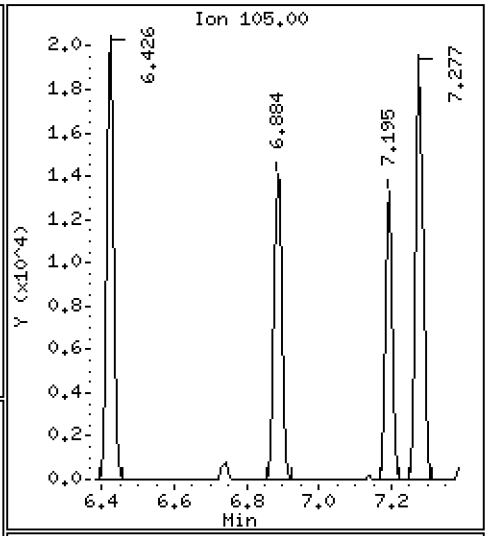
97 1,3,5-Trimethylbenzene Concentration: 0.909183 ug/L

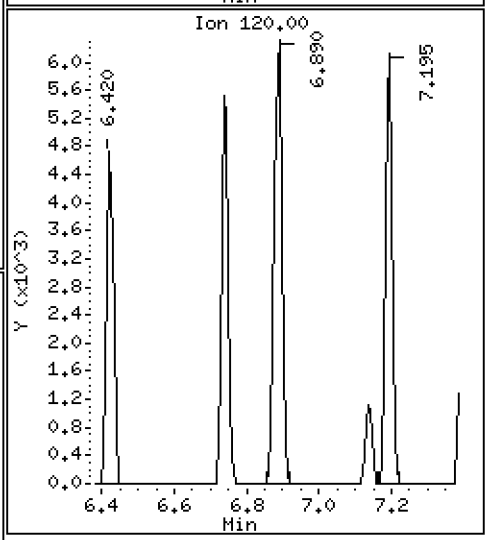












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 100

Date : 24-OCT-2016 23:46

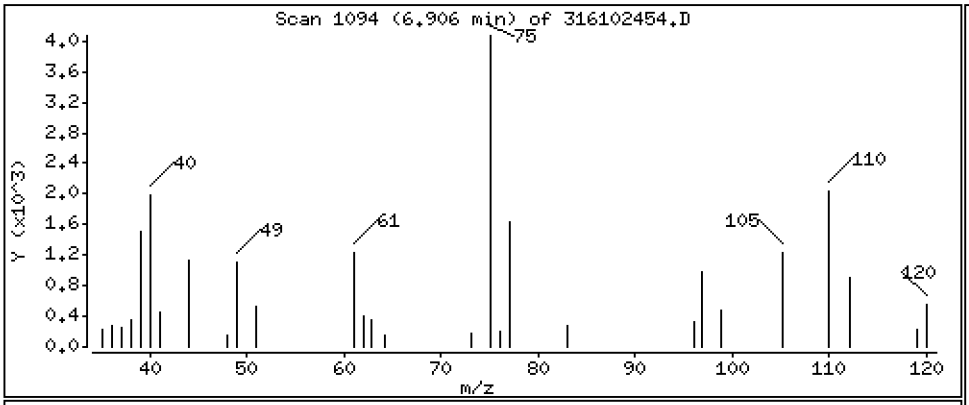
Client ID: Instrument: ms03.i

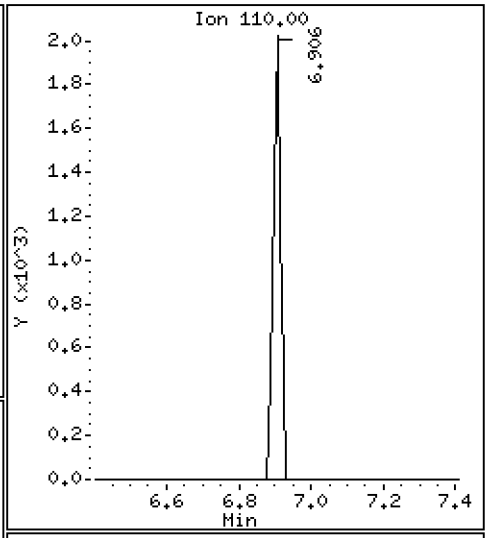
Sample Info: 1234;;1;1;1;;;

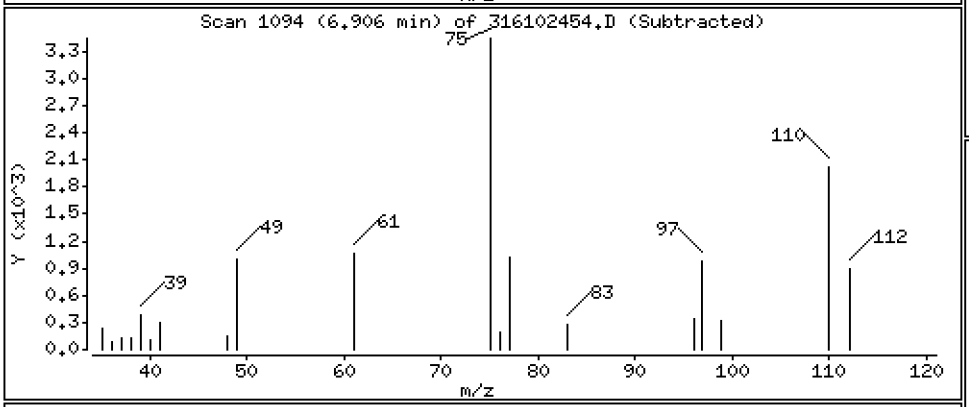
Purge Volume: 5.0 Operator: CJG

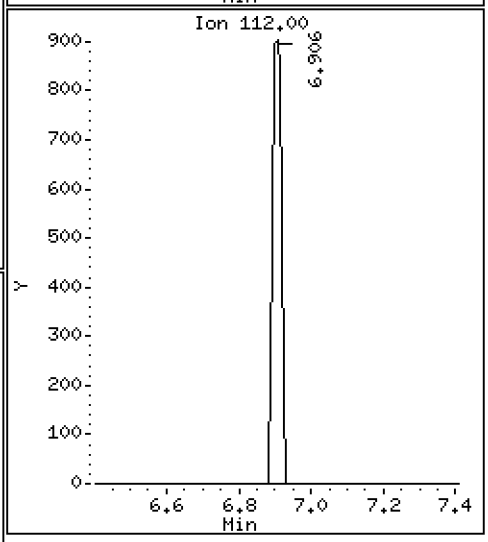
Column phase: DB-VRX Column diameter: 0.25

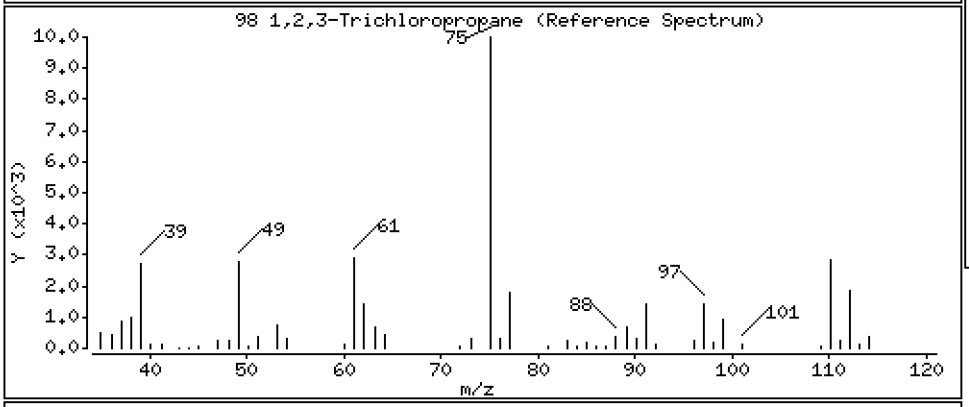
98 1,2,3-Trichloropropane Concentration: 1.29728 ug/L

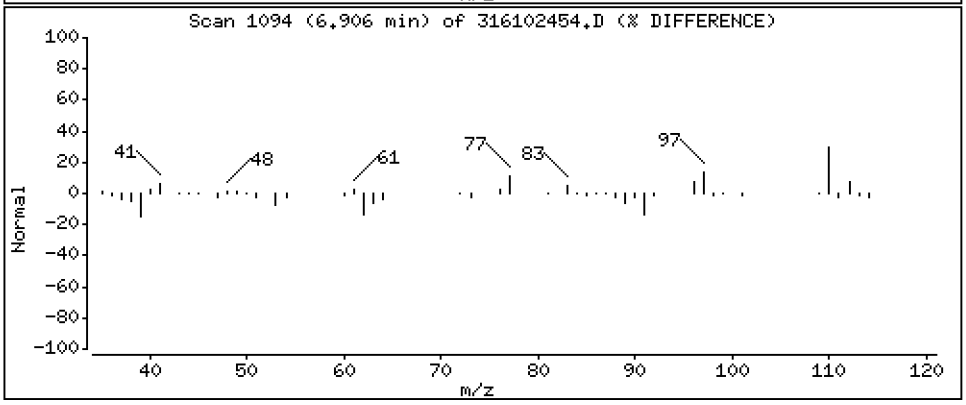












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 101

Date : 24-OCT-2016 23:46

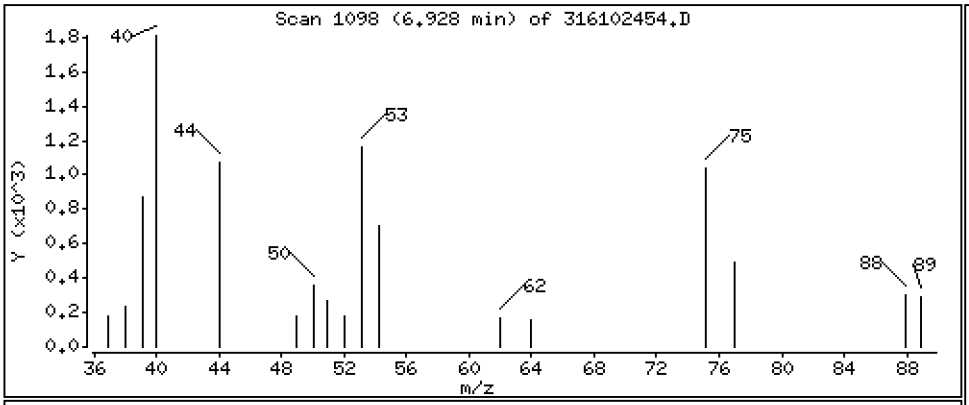
Client ID: Instrument: ms03.i

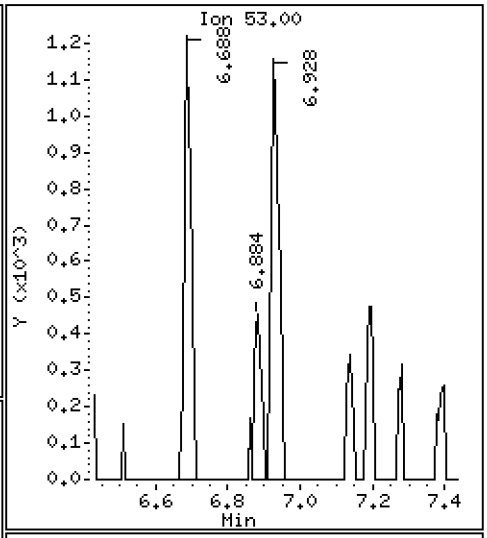
Sample Info: 1234;;1;1;1;;;

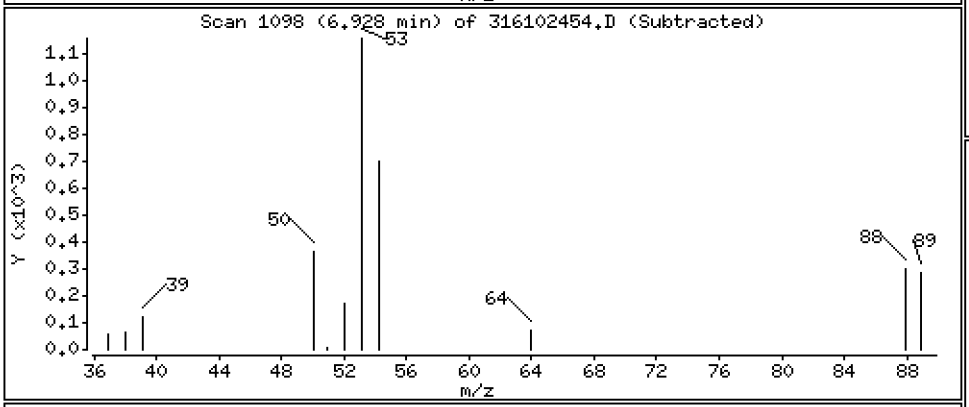
Purge Volume: 5.0 Operator: CJG

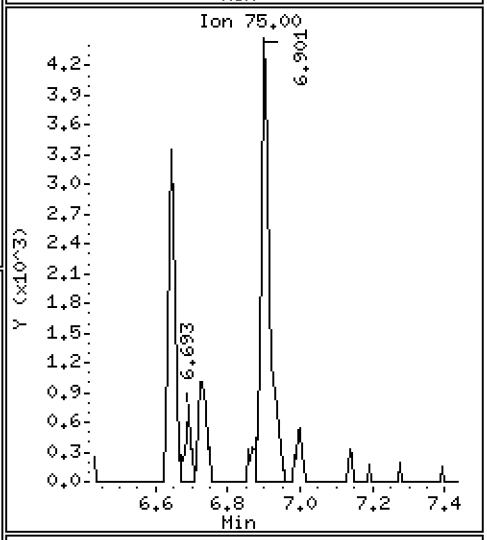
Column phase: DB-VRX Column diameter: 0.25

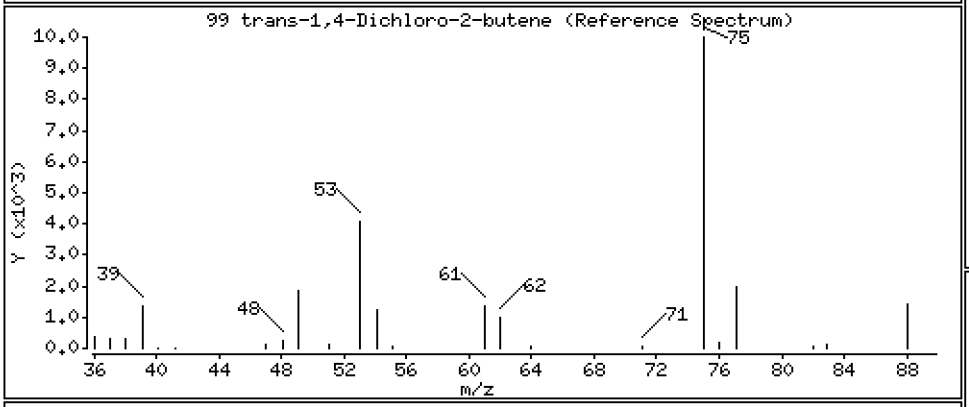
99 trans-1,4-Dichloro-2-butene Concentration: 0.895508 ug/L

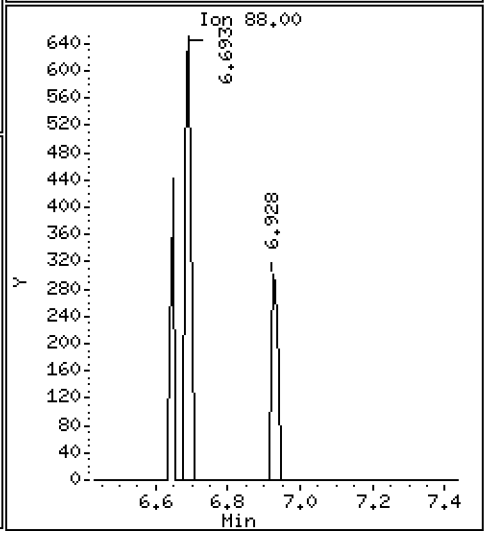


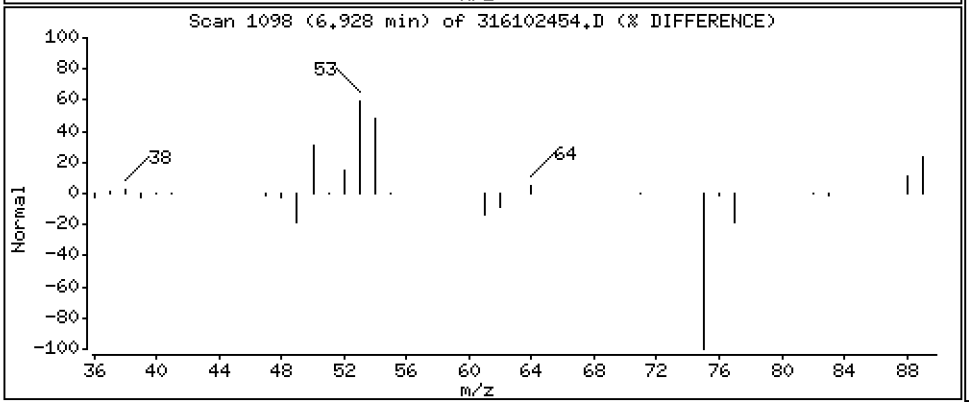












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 102

Date : 24-OCT-2016 23:46

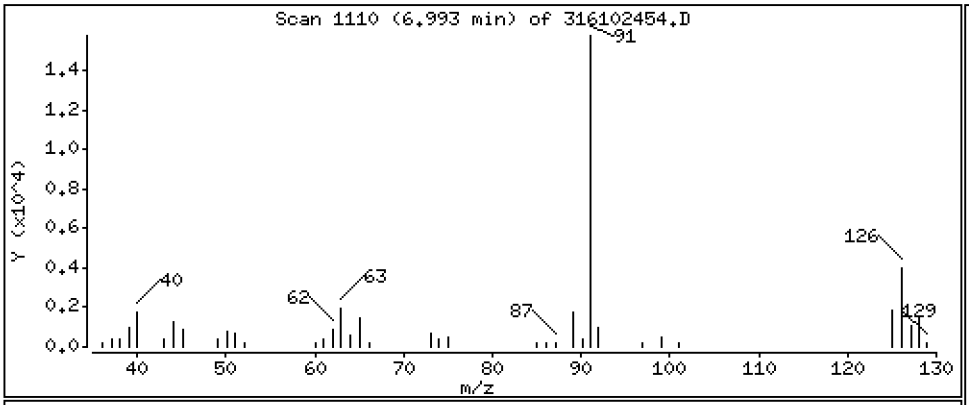
Client ID: Instrument: ms03.i

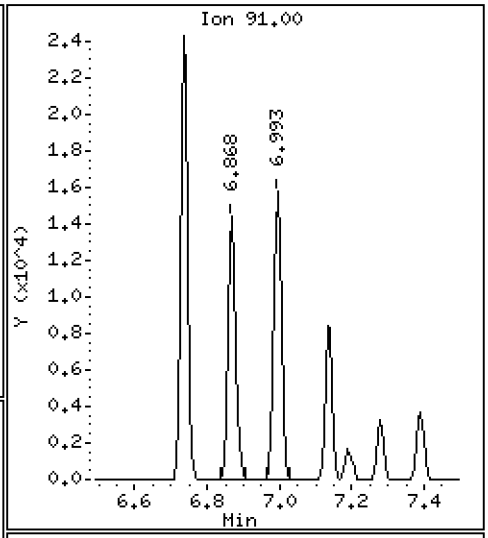
Sample Info: 1234;;1;1;1;;;

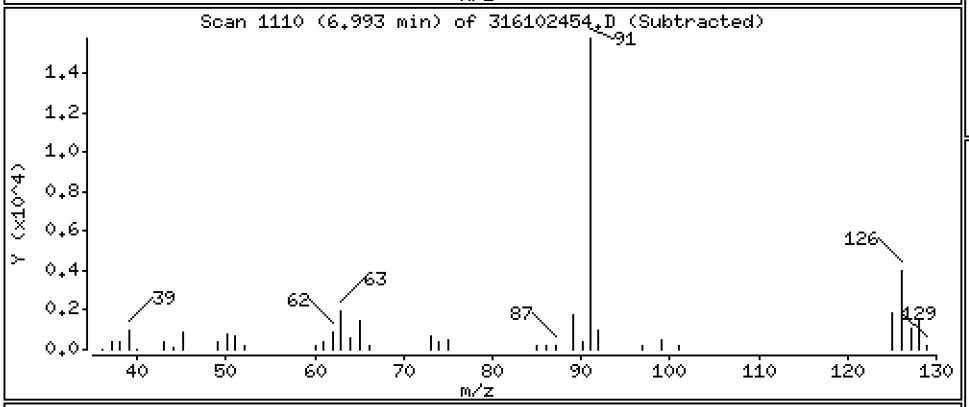
Purge Volume: 5.0 Operator: CJG

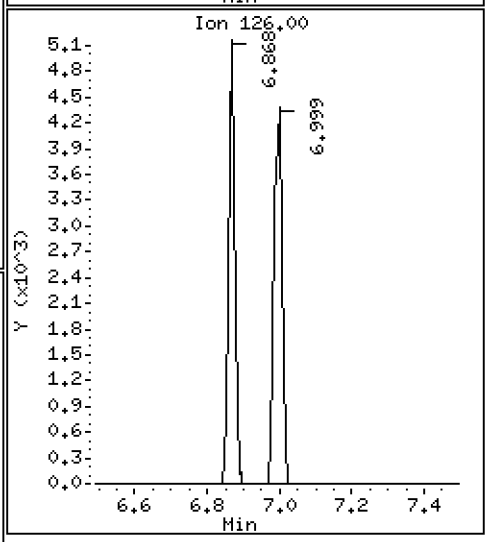
Column phase: DB-VRX Column diameter: 0.25

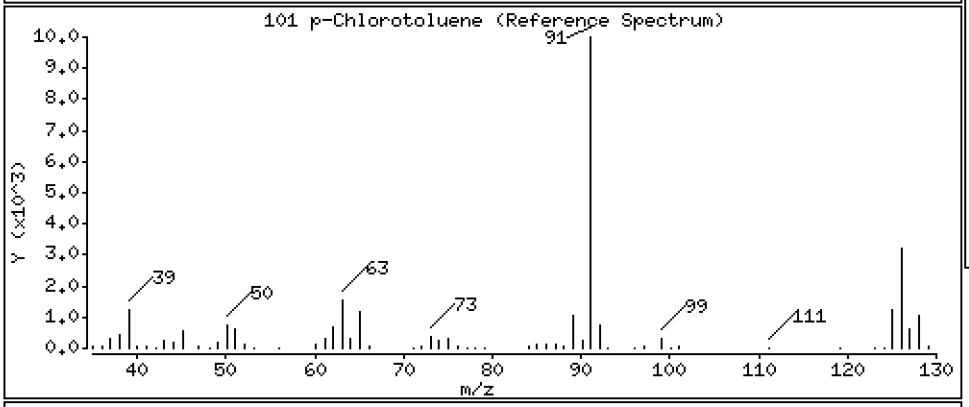
101 p-Chlorotoluene Concentration: 1.05903 ug/L

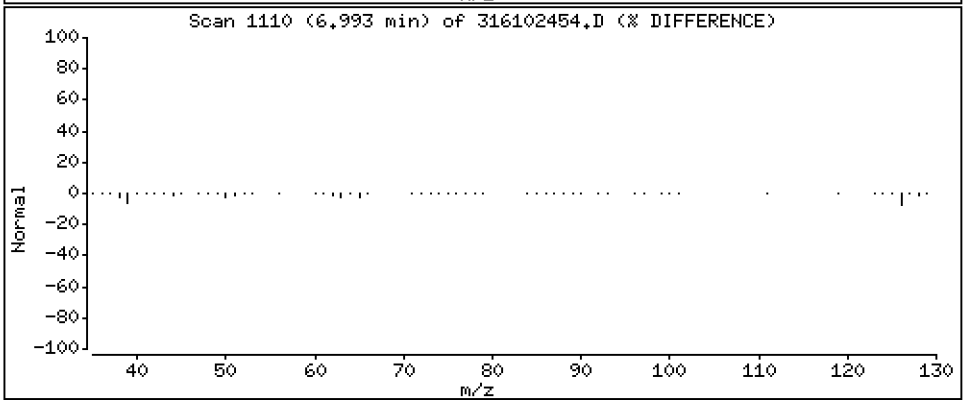












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 103

Date : 24-OCT-2016 23:46

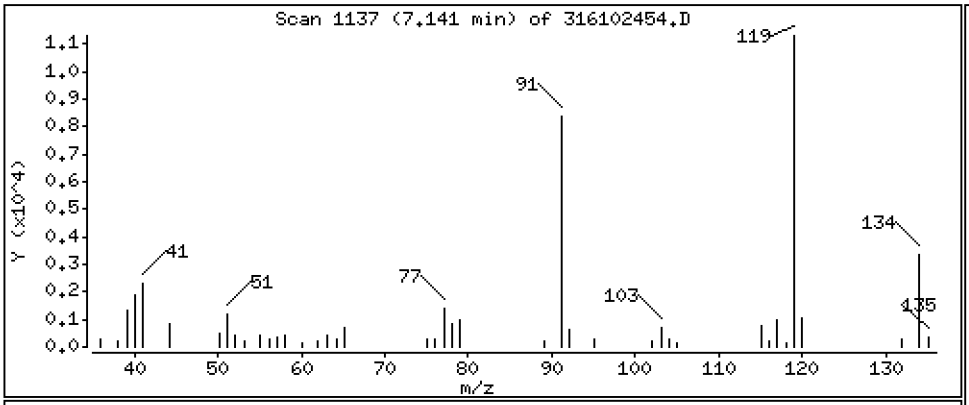
Client ID: Instrument: ms03.i

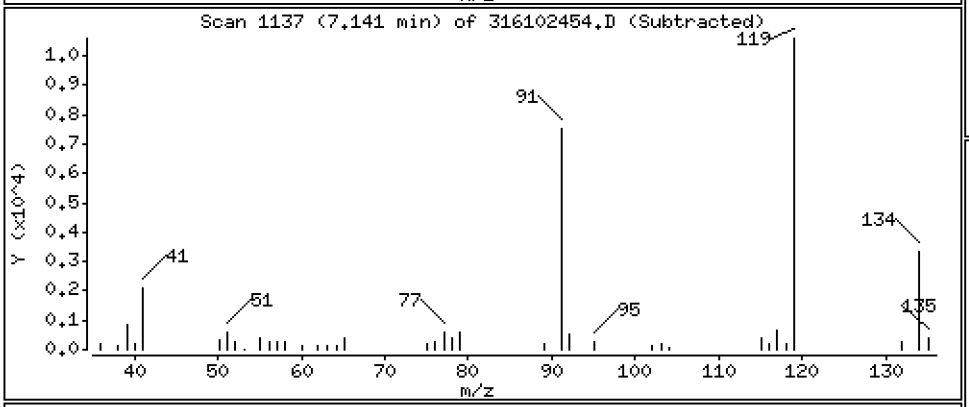
Sample Info: 1234;;1;1;1;;;

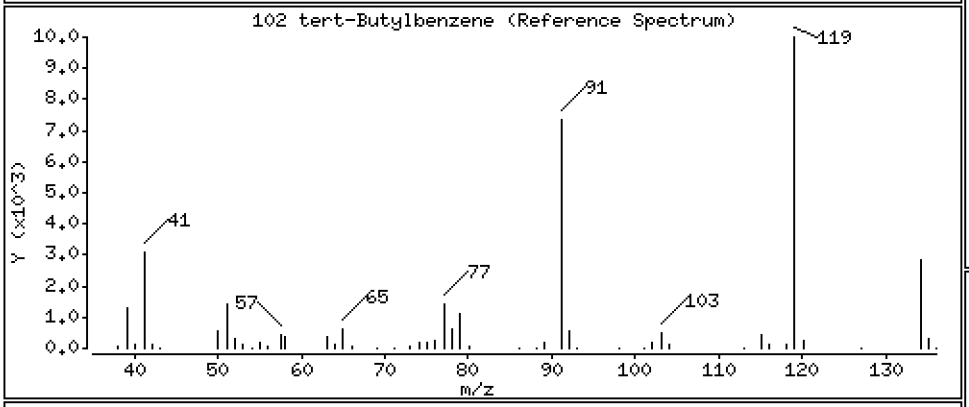
Purge Volume: 5.0 Operator: CJG

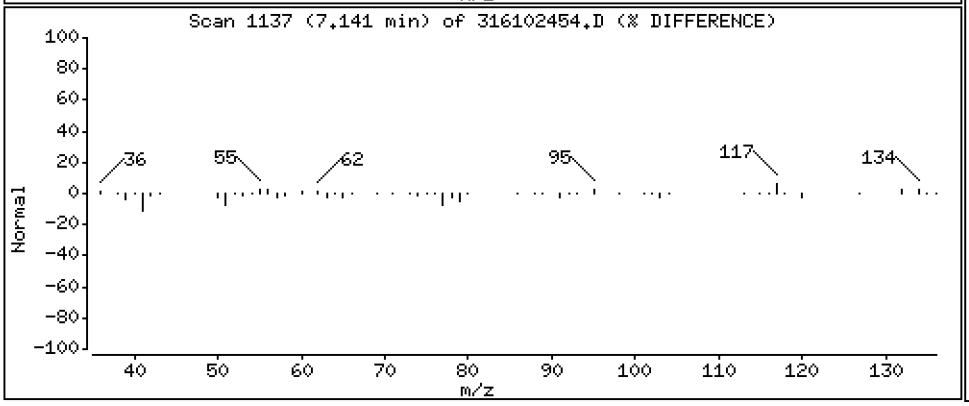
Column phase: DB-VRX Column diameter: 0.25

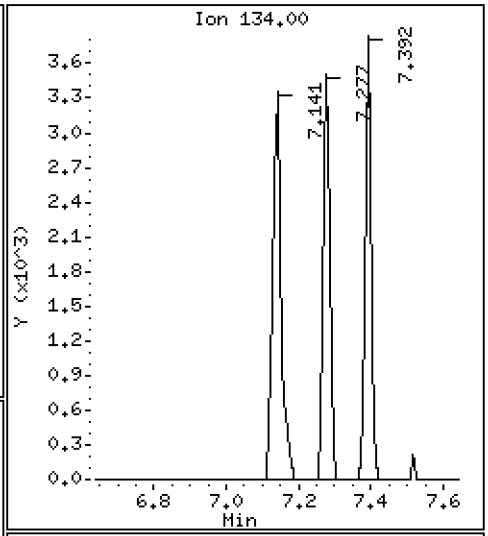
102 tert-Butylbenzene Concentration: 1.07524 ug/L

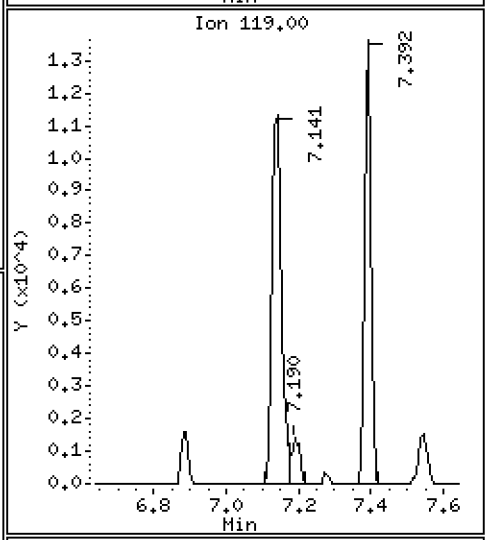


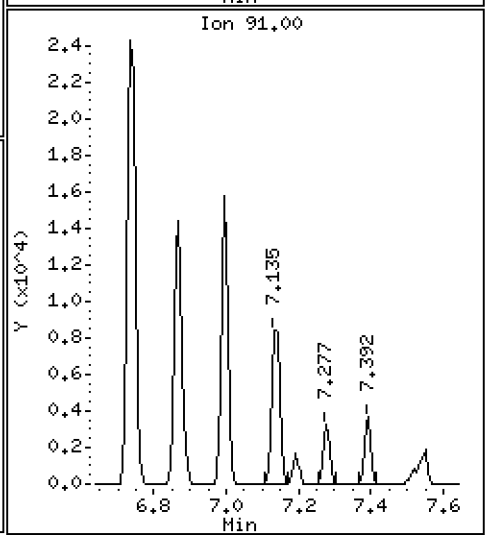












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 104

Date : 24-OCT-2016 23:46

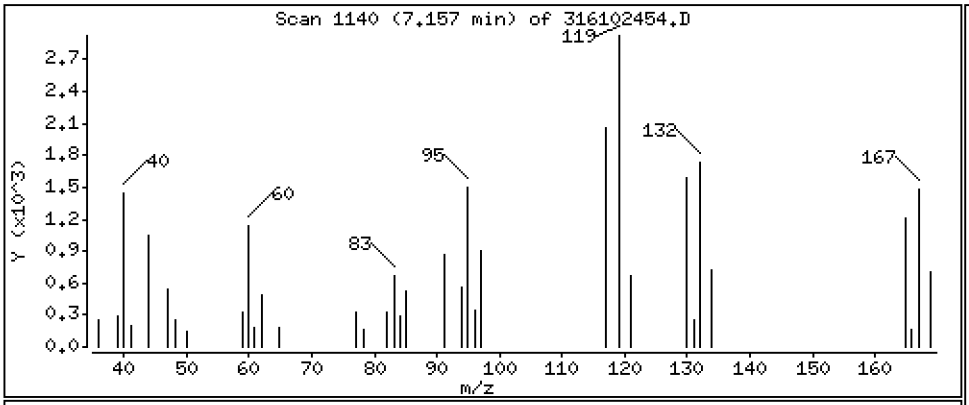
Client ID: Instrument: ms03.i

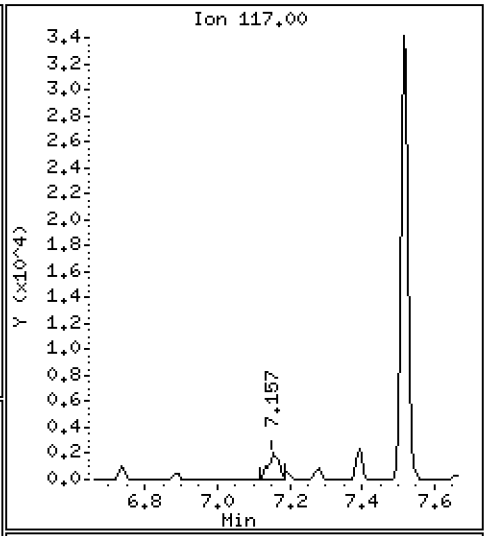
Sample Info: 1234;;1;1;1;;;

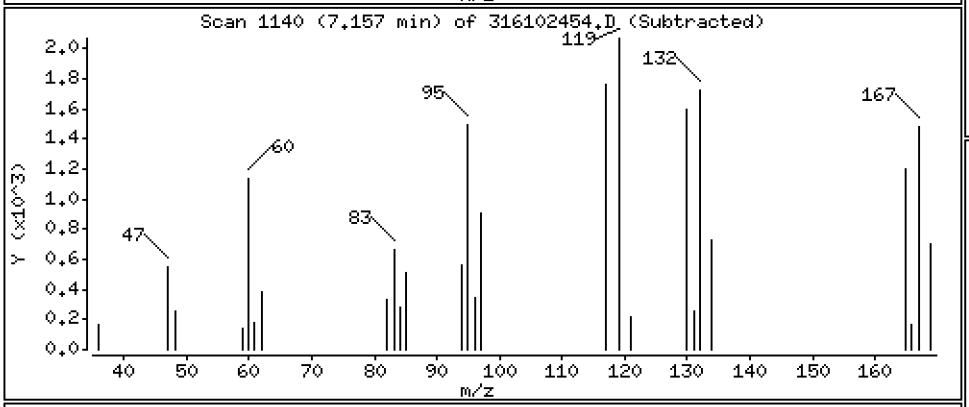
Purge Volume: 5.0 Operator: CJG

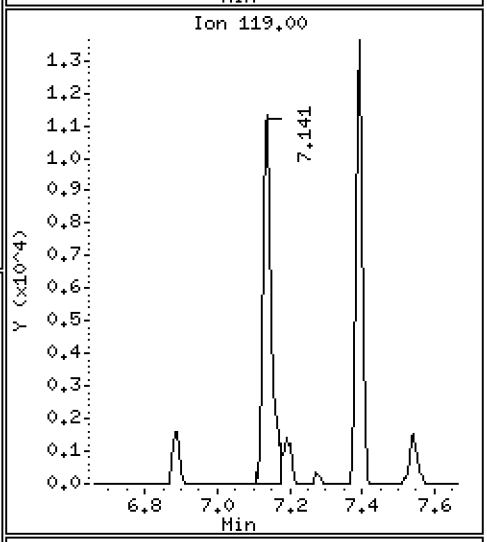
Column phase: DB-VRX Column diameter: 0.25

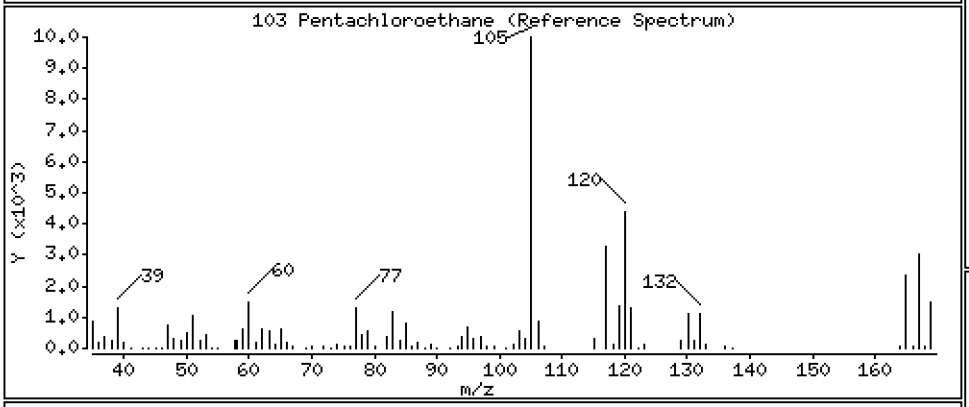
103 Pentachloroethane Concentration: 1.04802 ug/L

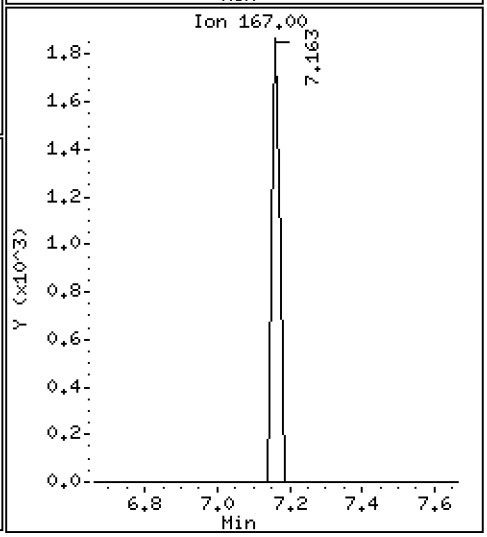


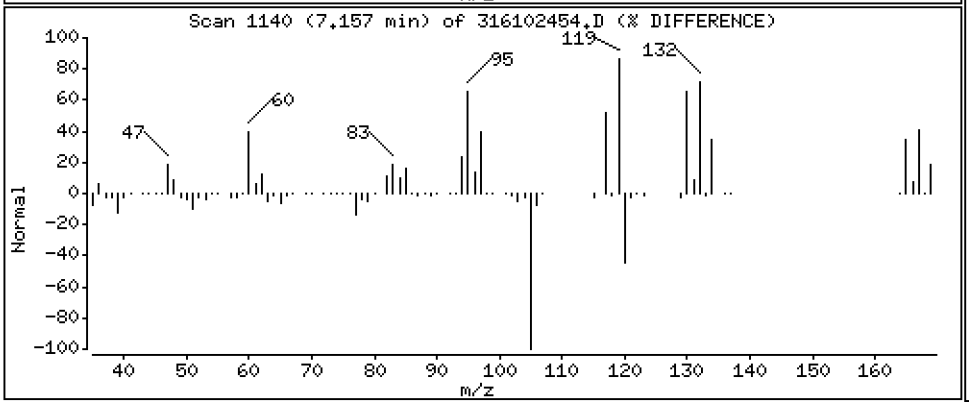












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 105

Date : 24-OCT-2016 23:46

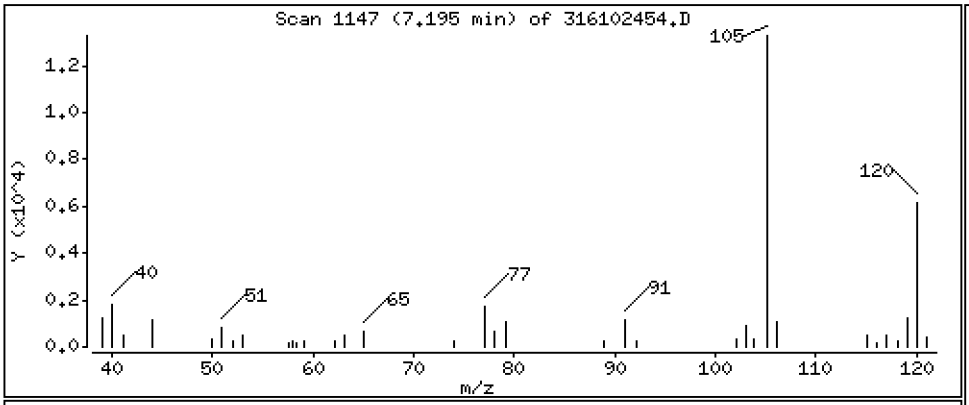
Client ID: Instrument: ms03.i

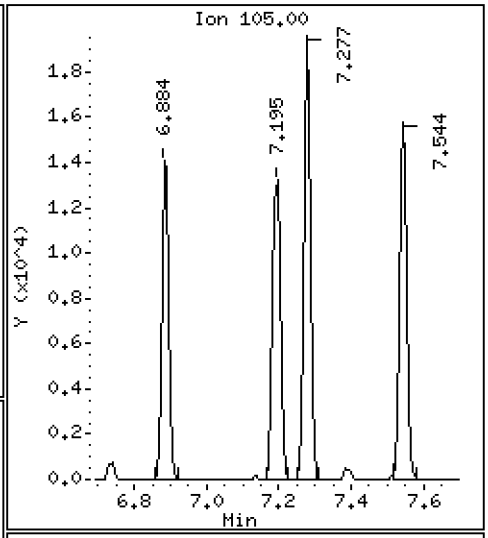
Sample Info: 1234;;1;1;1;;;

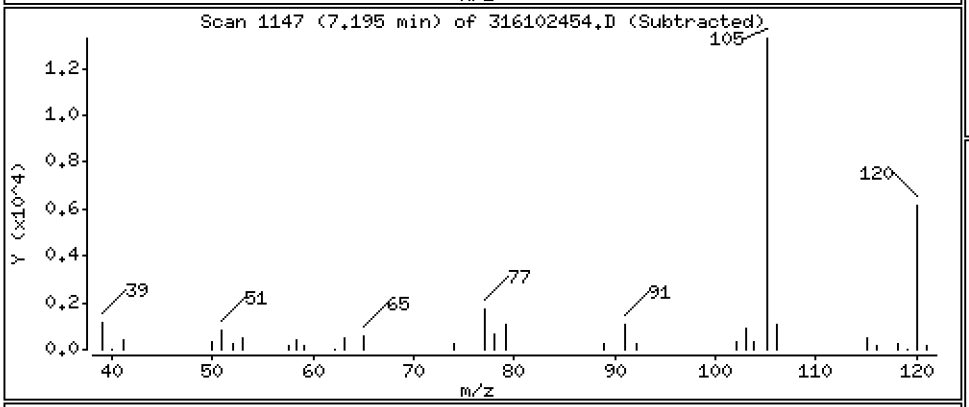
Purge Volume: 5.0 Operator: CJG

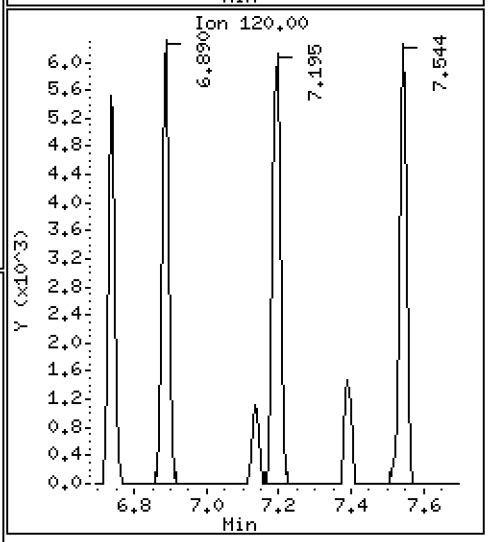
Column phase: DB-VRX Column diameter: 0.25

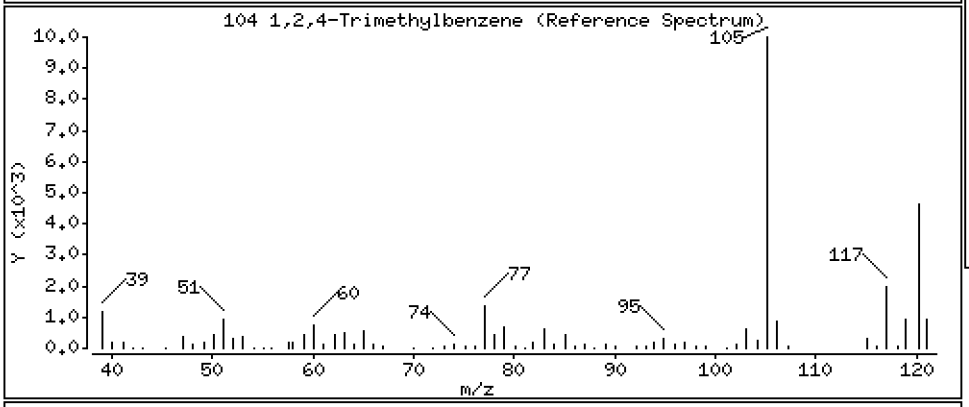
104 1,2,4-Trimethylbenzene Concentration: 0.875311 ug/L

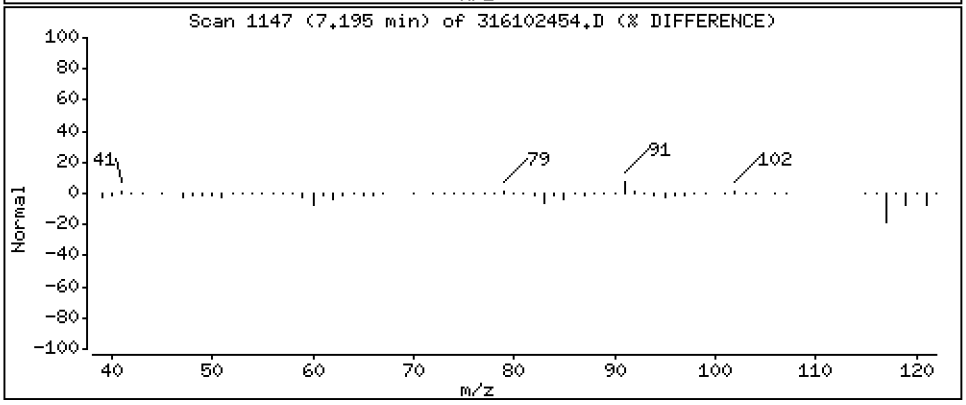












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 106

Date : 24-OCT-2016 23:46

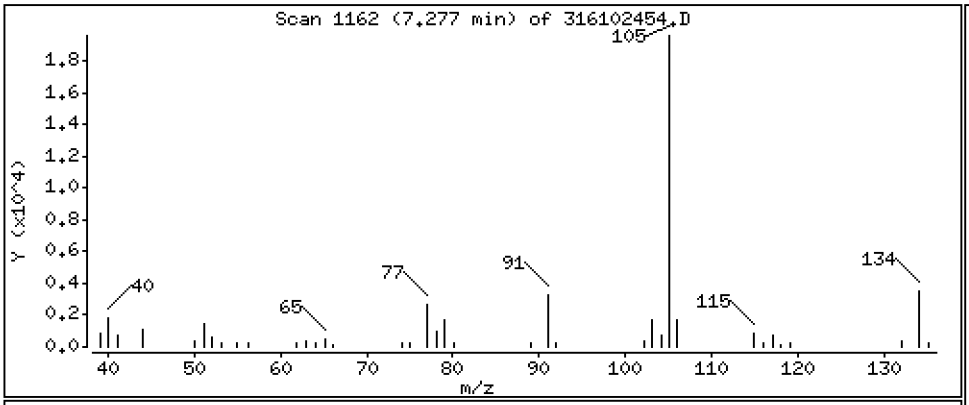
Client ID: Instrument: ms03.i

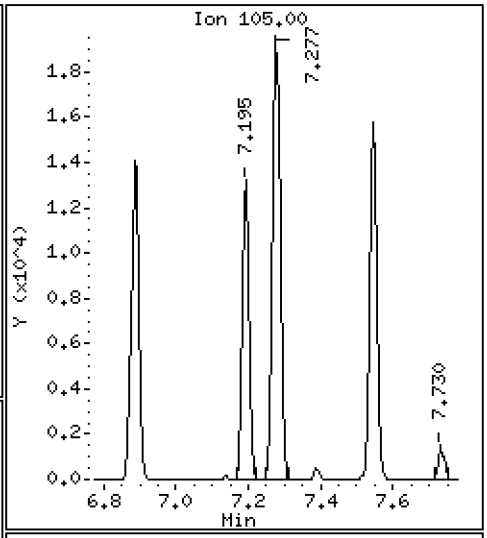
Sample Info: 1234;;1;1;1;;;

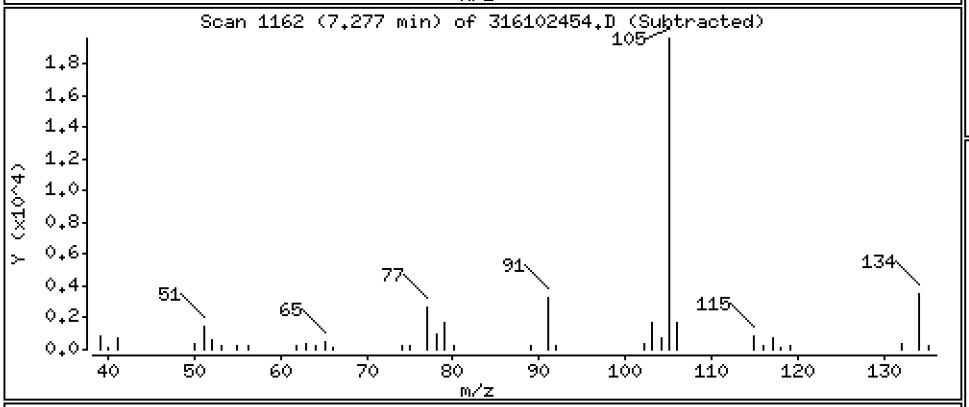
Purge Volume: 5.0 Operator: CJG

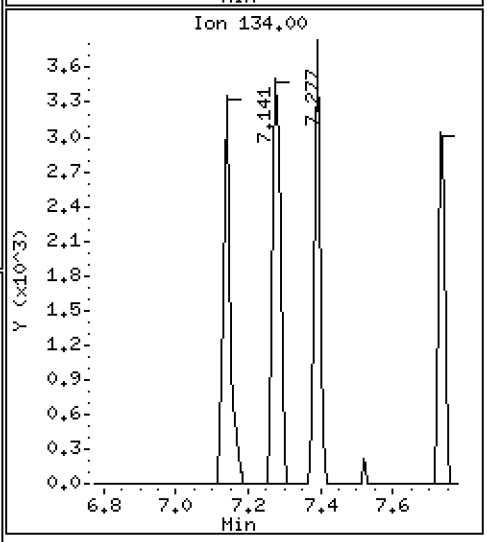
Column phase: DB-VRX Column diameter: 0.25

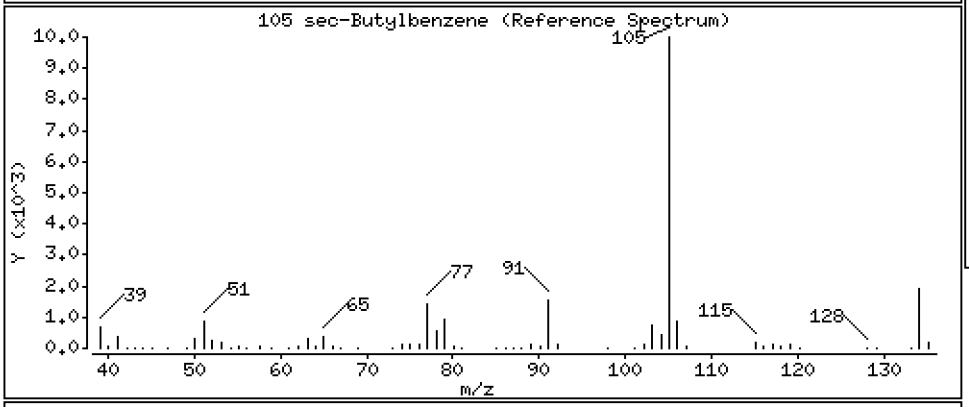
105 sec-Butylbenzene Concentration: 1.00797 ug/L

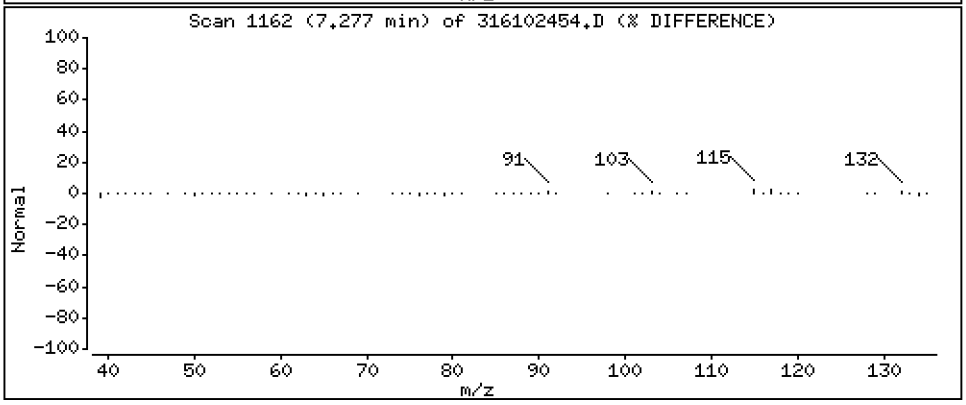












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 107

Date : 24-OCT-2016 23:46

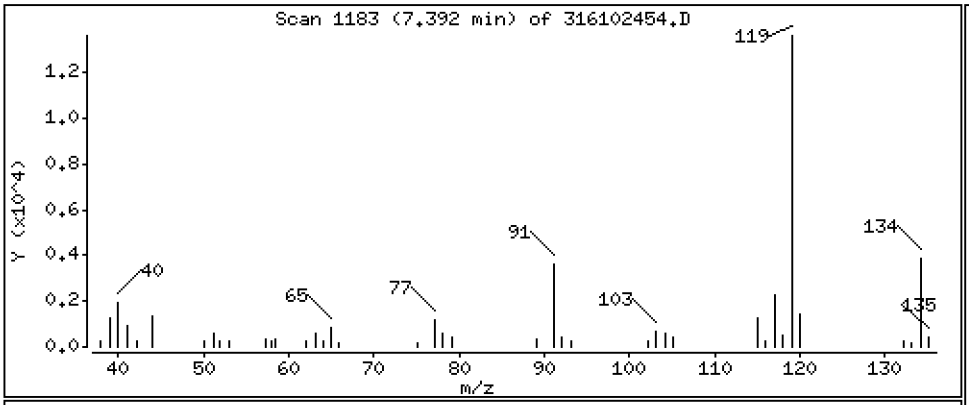
Client ID: Instrument: ms03.i

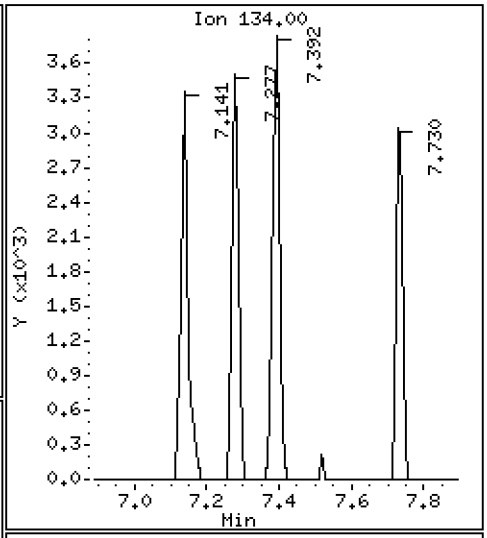
Sample Info: 1234;;1;1;1;;;

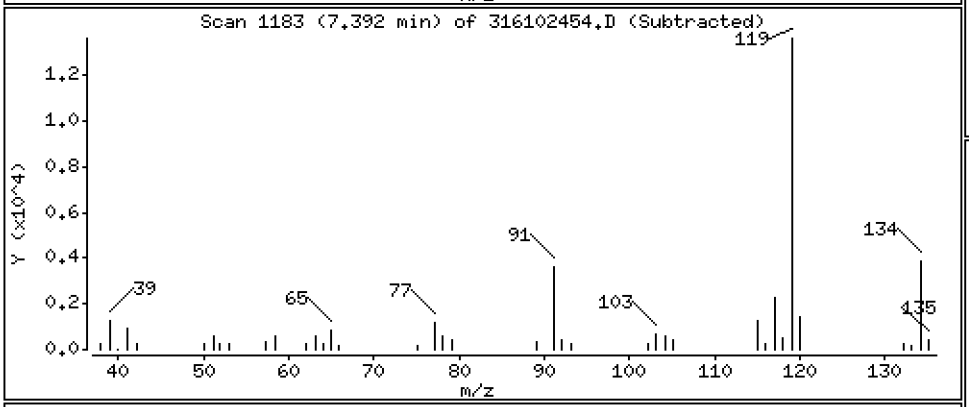
Purge Volume: 5.0 Operator: CJG

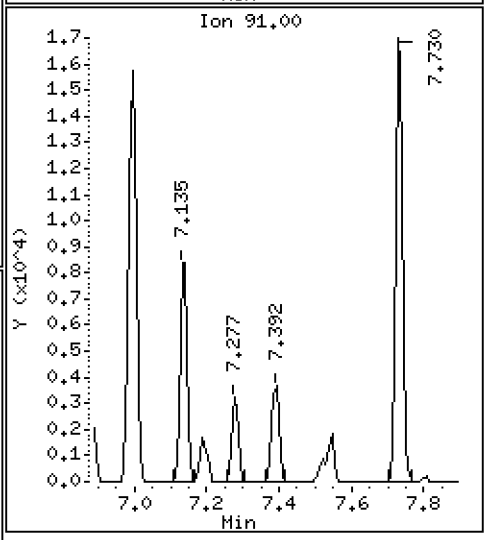
Column phase: DB-VRX Column diameter: 0.25

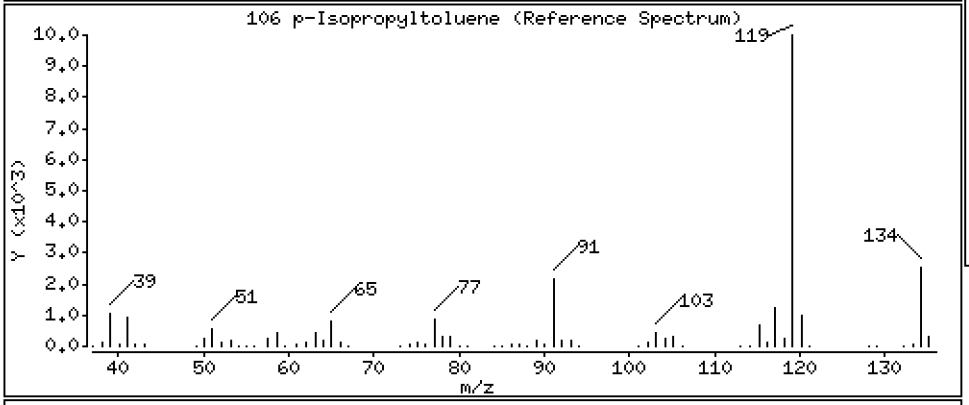
106 p-Isopropyltoluene Concentration: 0.916838 ug/L

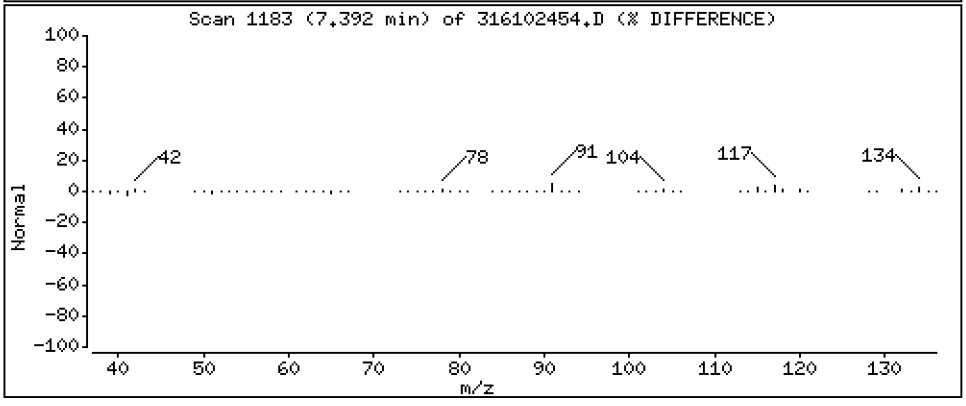












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 108

Date : 24-OCT-2016 23:46

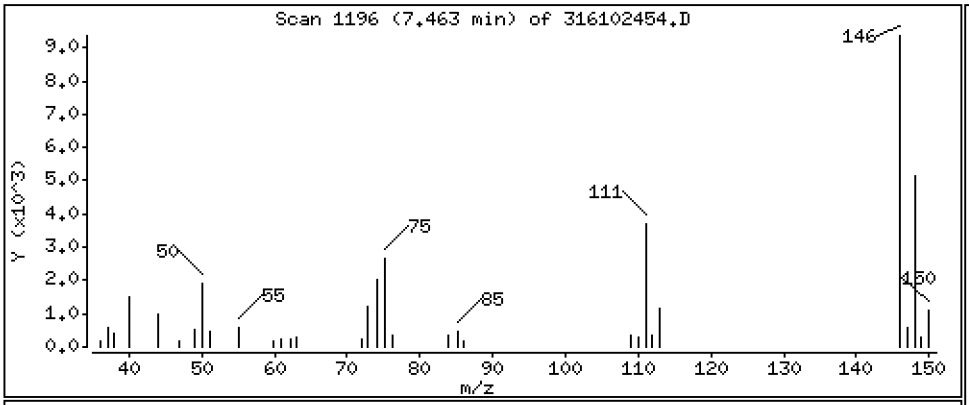
Client ID: Instrument: ms03.i

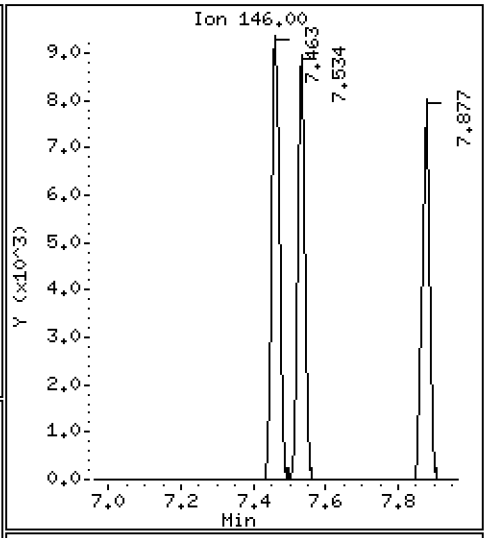
Sample Info: 1234;;1;1;1;;;

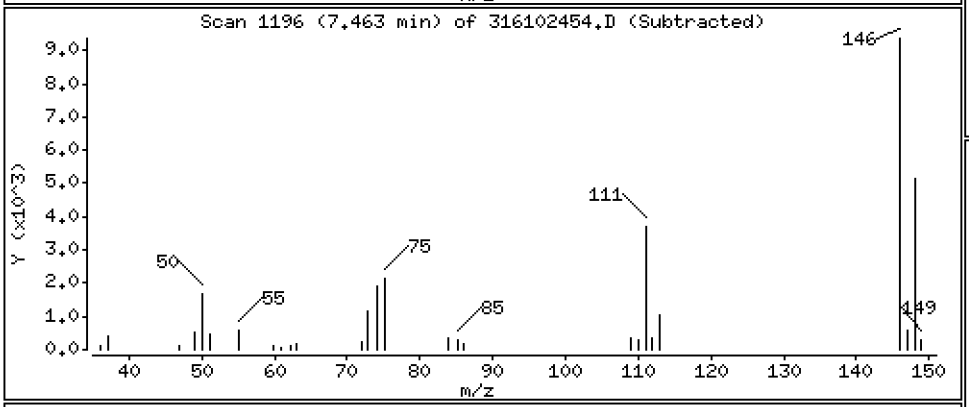
Purge Volume: 5.0 Operator: CJG

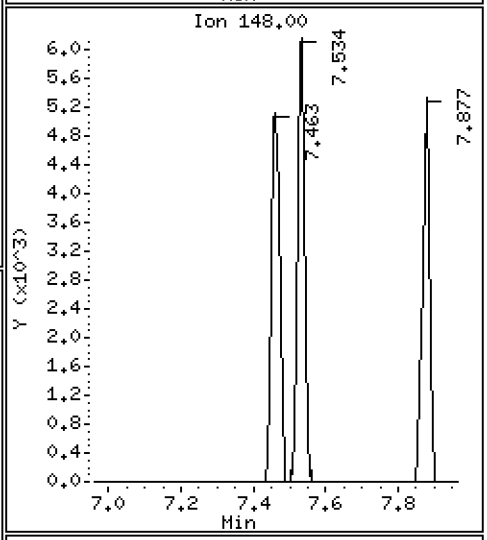
Column phase: DB-VRX Column diameter: 0.25

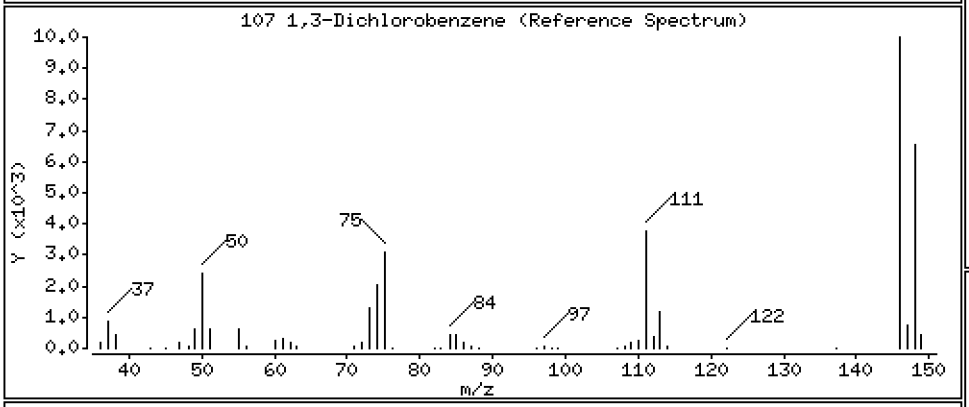
107 1,3-Dichlorobenzene Concentration: 1.24143 ug/L

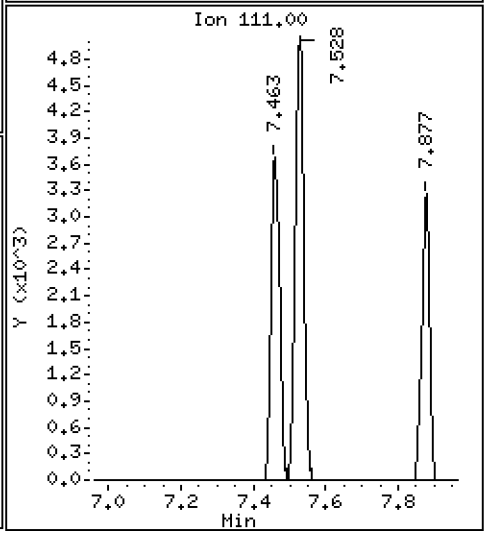


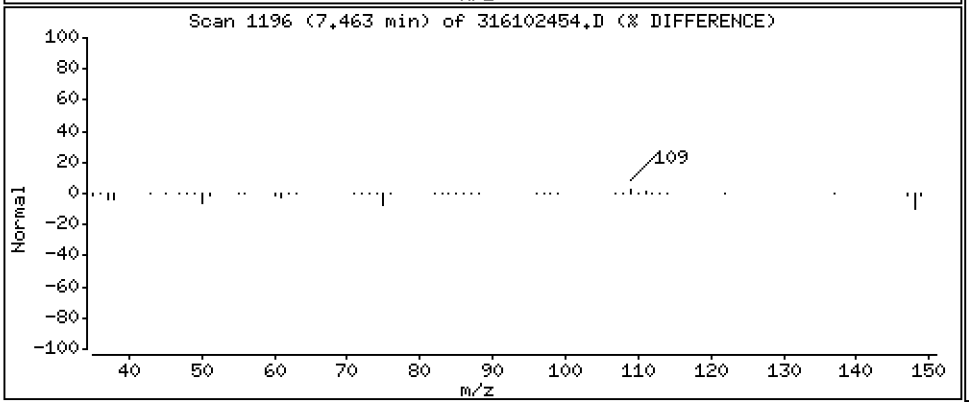












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 109

Date : 24-OCT-2016 23:46

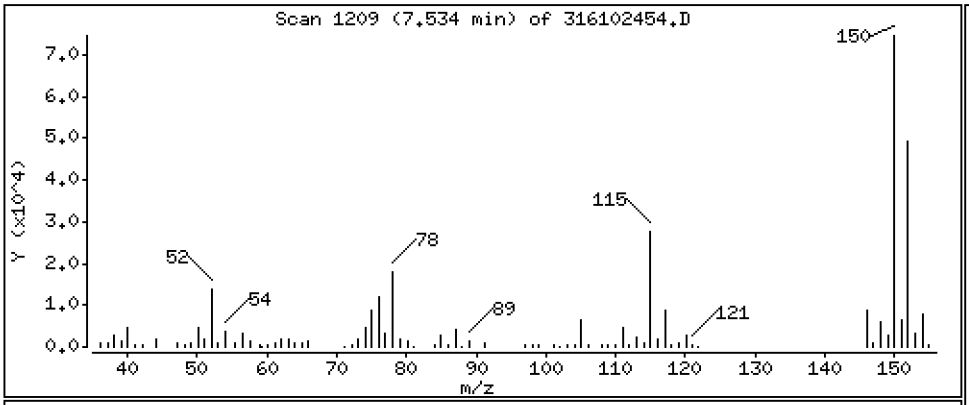
Client ID: Instrument: ms03.i

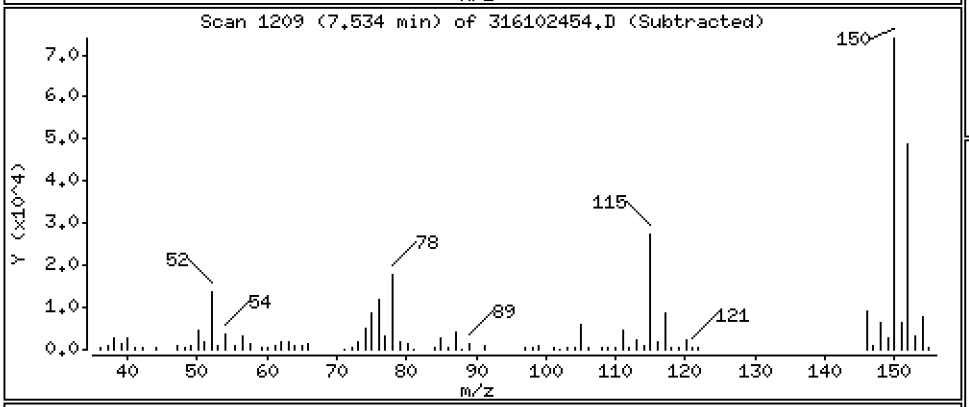
Sample Info: 1234;;1;1;1;;;

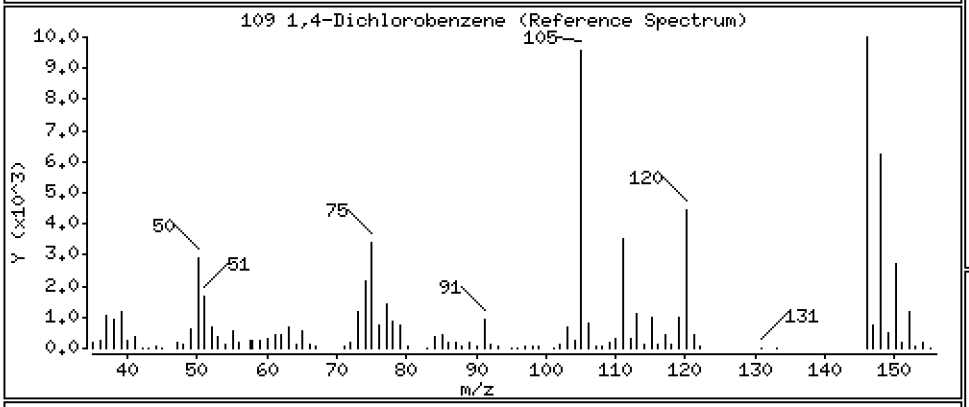
Purge Volume: 5.0 Operator: CJG

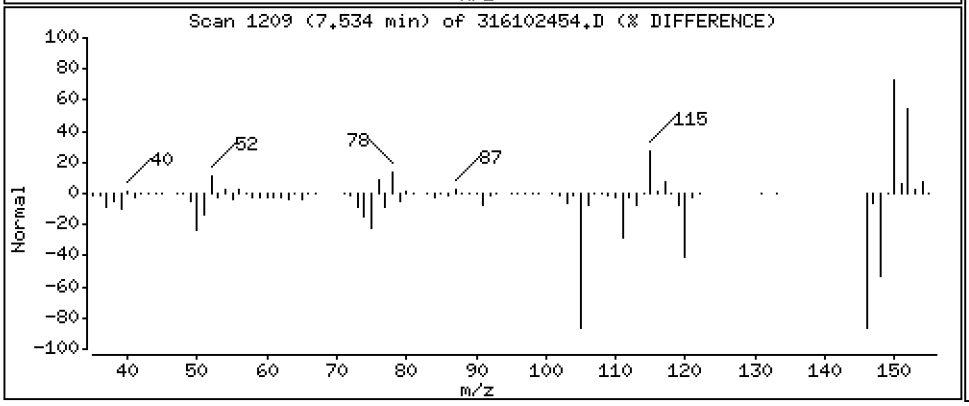
Column phase: DB-VRX Column diameter: 0.25

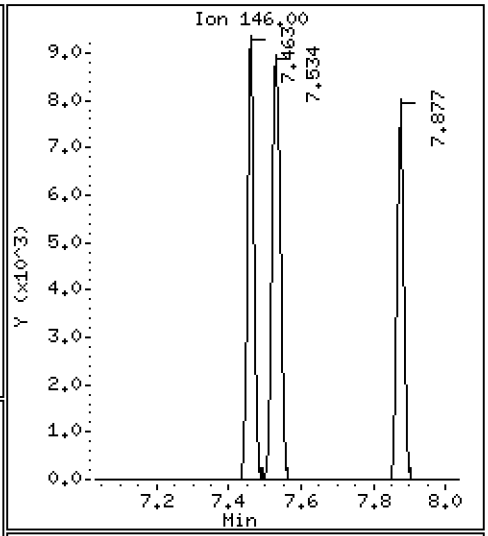
109 1,4-Dichlorobenzene Concentration: 1.29832 ug/L

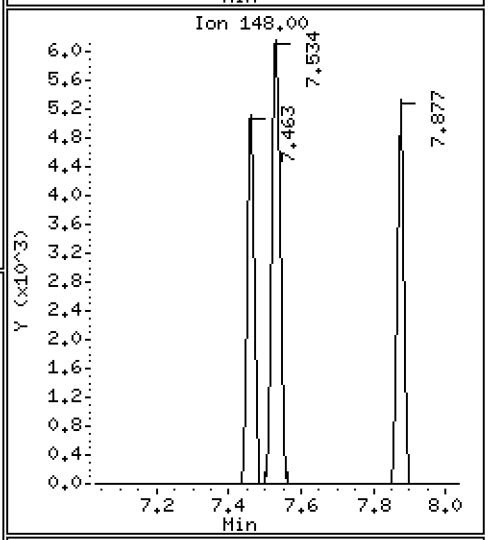


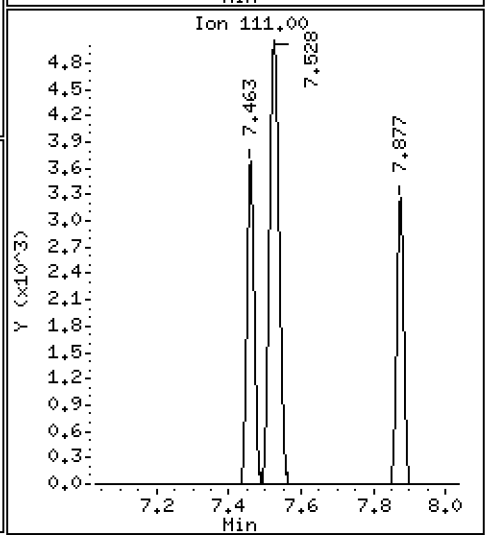












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 110

Date : 24-OCT-2016 23:46

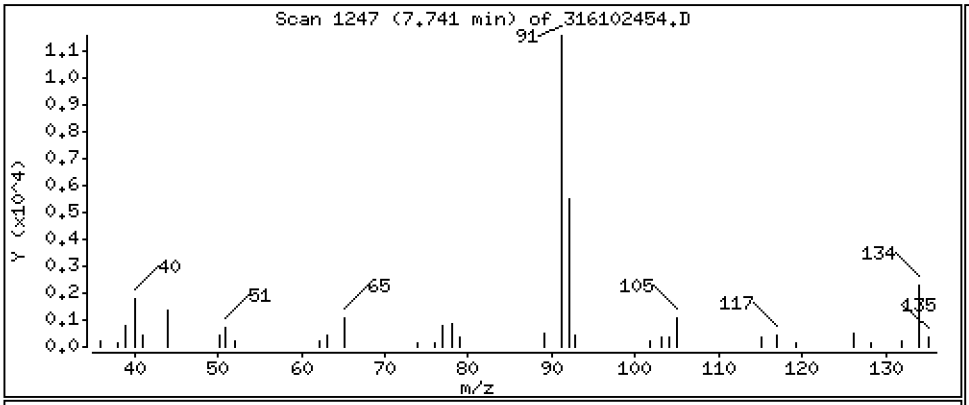
Client ID: Instrument: ms03.i

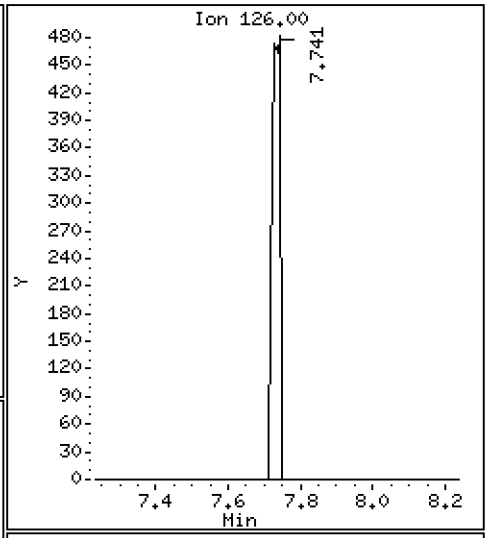
Sample Info: 1234;;1;1;1;;;

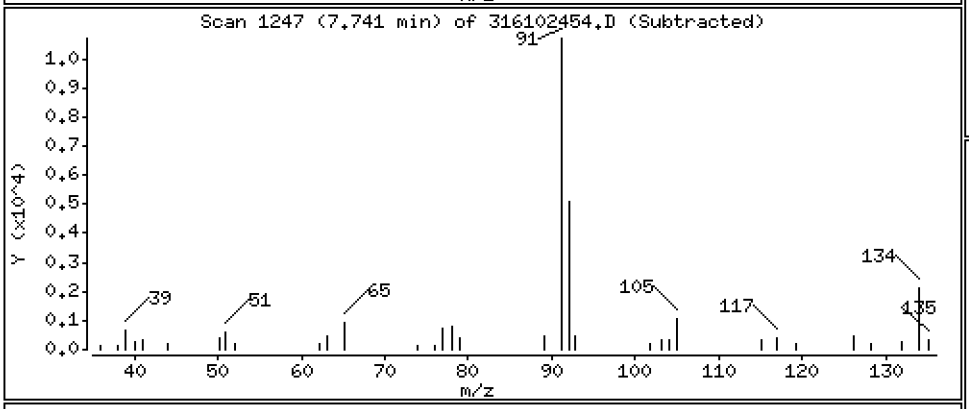
Purge Volume: 5.0 Operator: CJG

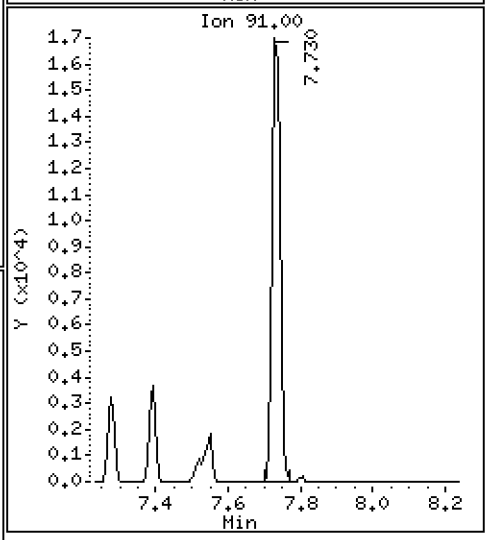
Column phase: DB-VRX Column diameter: 0.25

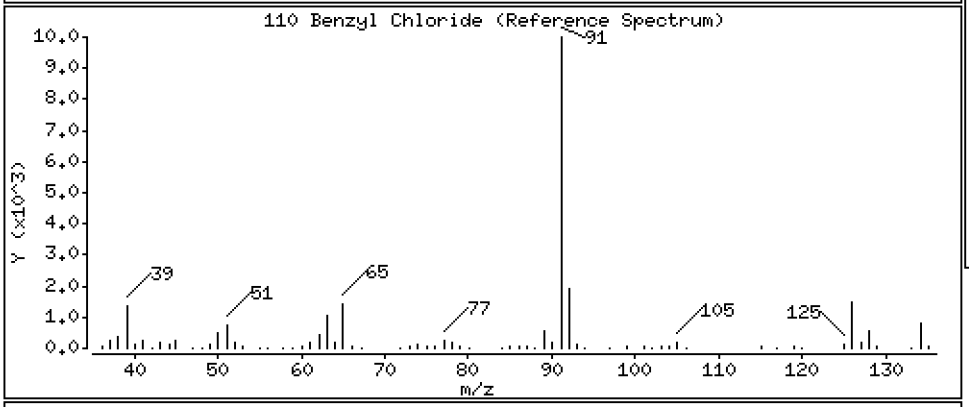
110 Benzyl Chloride Concentration: 0.547489 ug/L

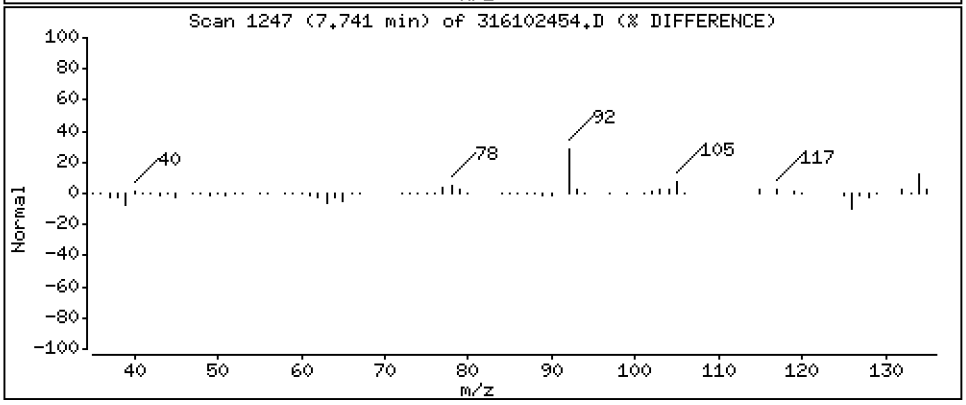












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 111

Date : 24-OCT-2016 23:46

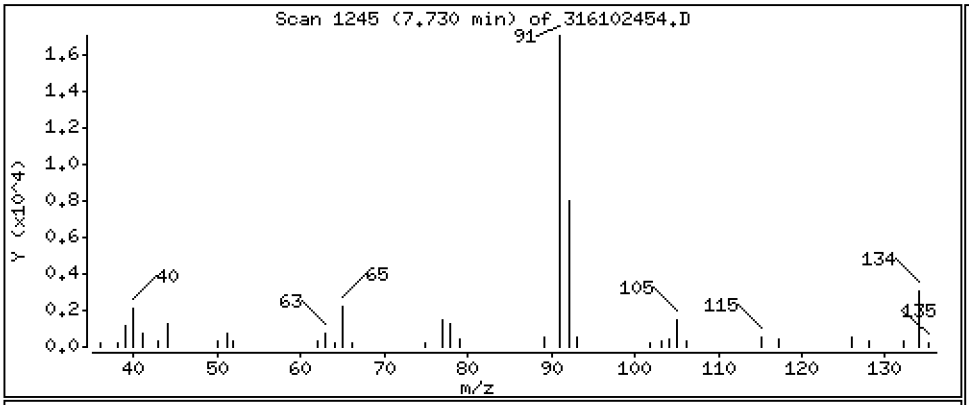
Client ID: Instrument: ms03.i

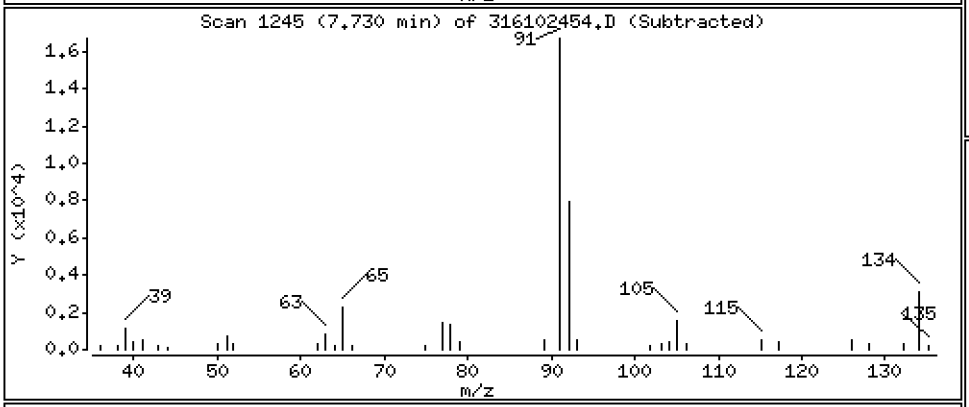
Sample Info: 1234;;1;1;1;;;

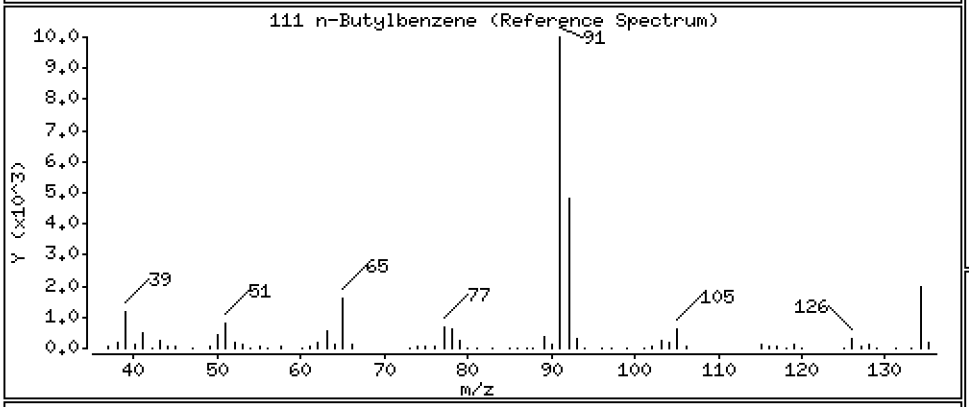
Purge Volume: 5.0 Operator: CJG

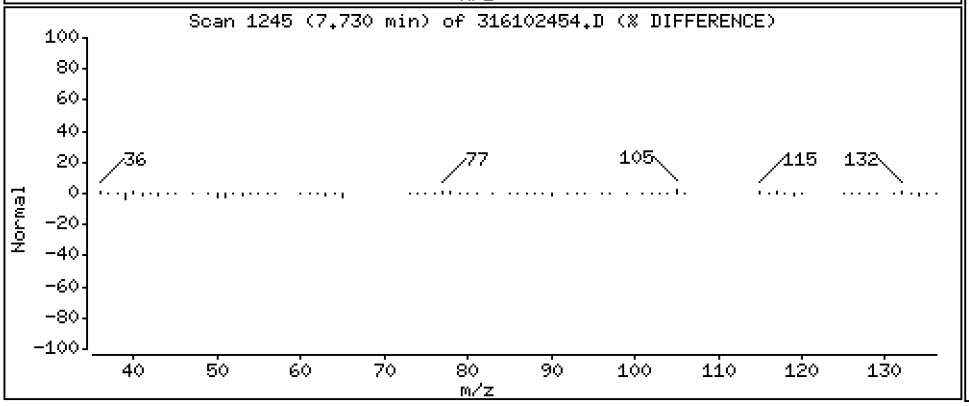
Column phase: DB-VRX Column diameter: 0.25

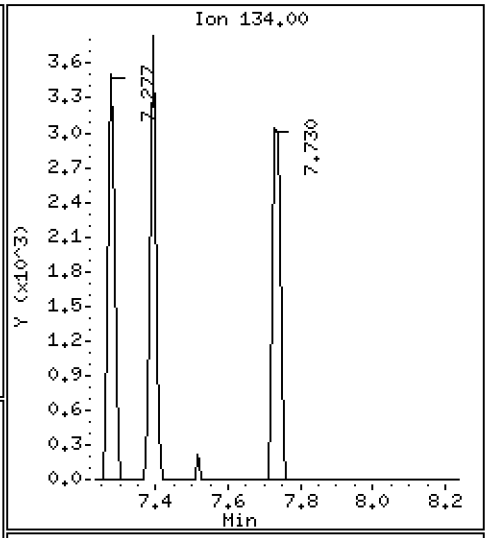
111 n-Butylbenzene Concentration: 0.964575 ug/L

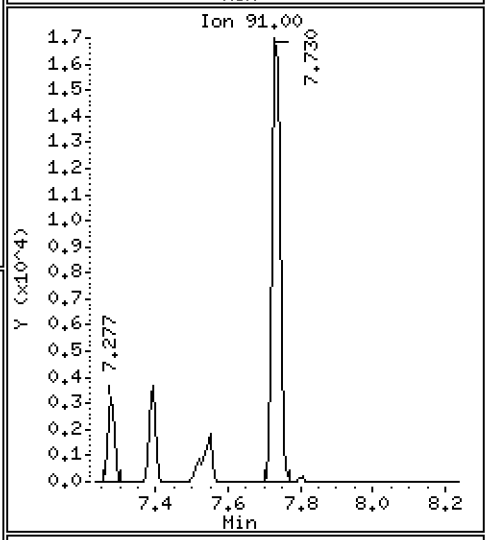


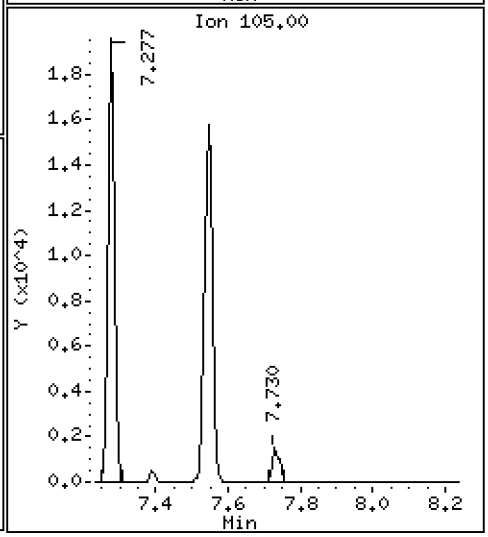












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 112

Date : 24-OCT-2016 23:46

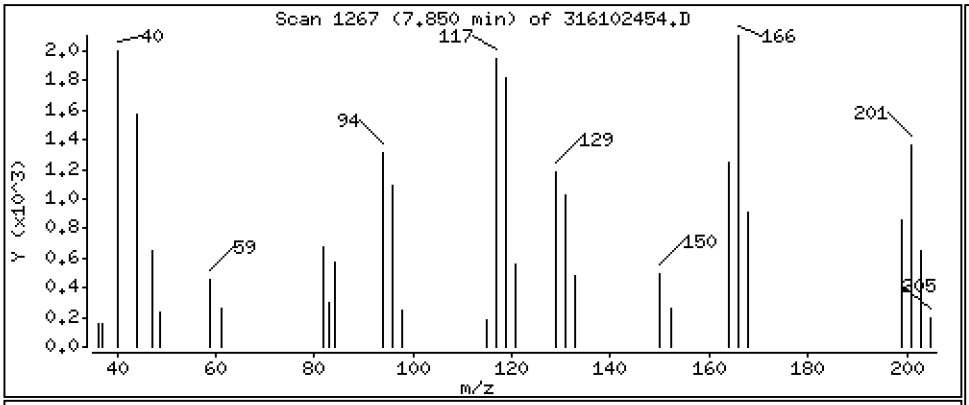
Client ID: Instrument: ms03.i

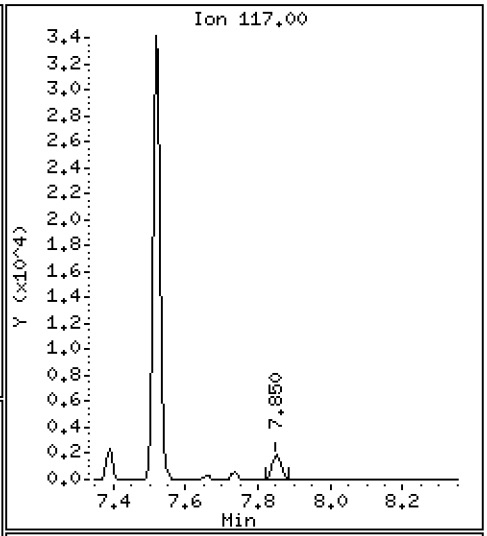
Sample Info: 1234;;1;1;1;;;

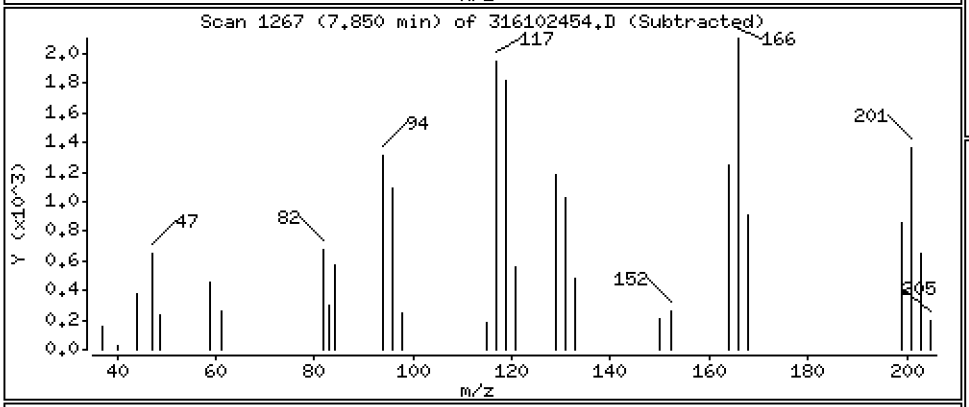
Purge Volume: 5.0 Operator: CJG

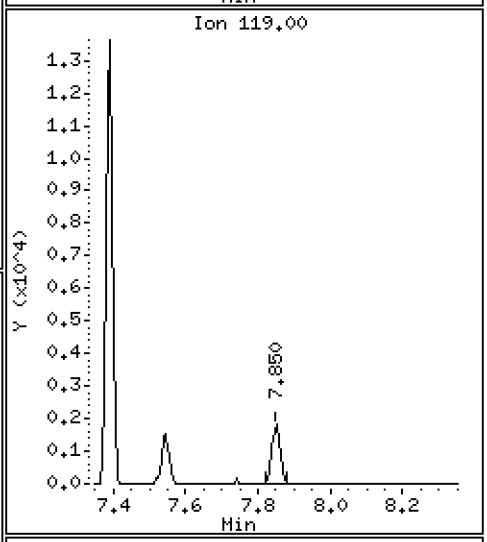
Column phase: DB-VRX Column diameter: 0.25

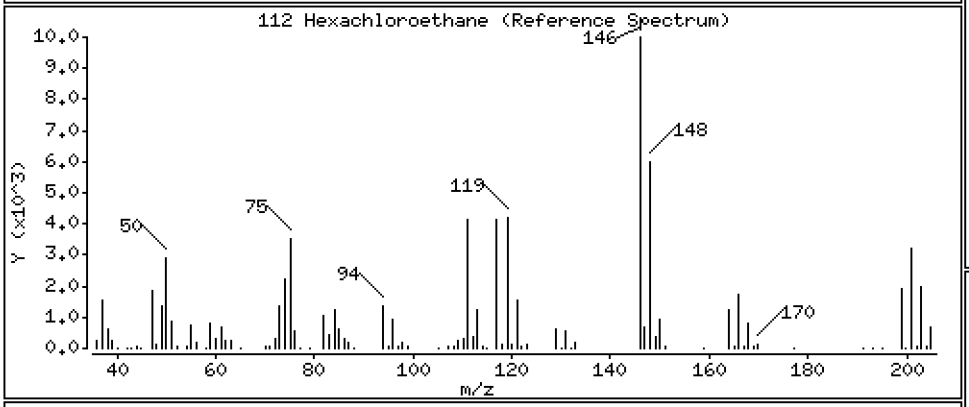
112 Hexachloroethane Concentration: 1.05552 ug/L

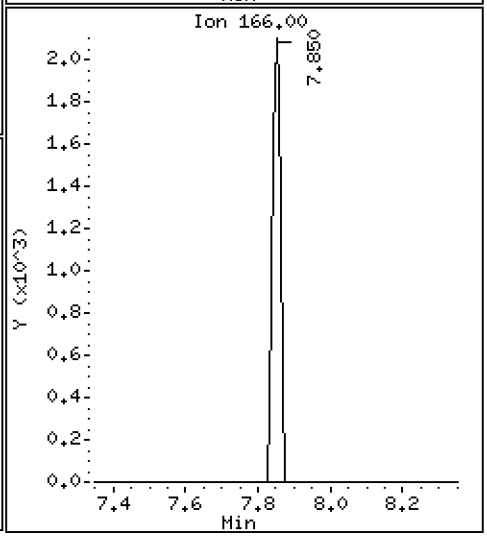


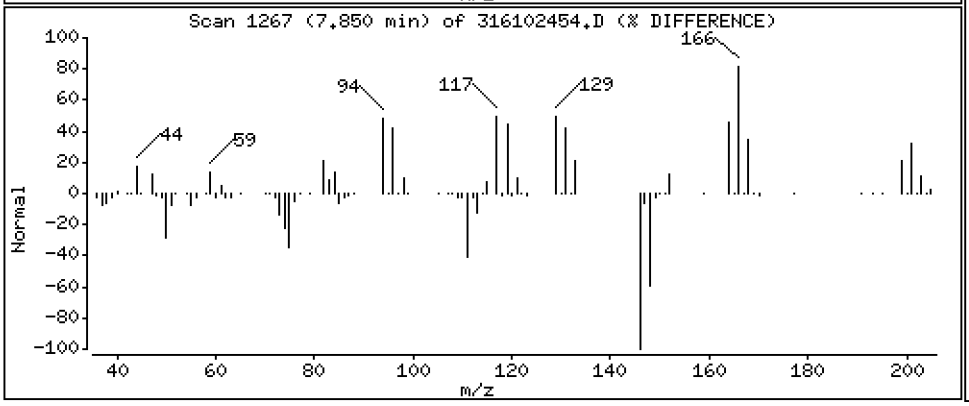












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 113

Date : 24-OCT-2016 23:46

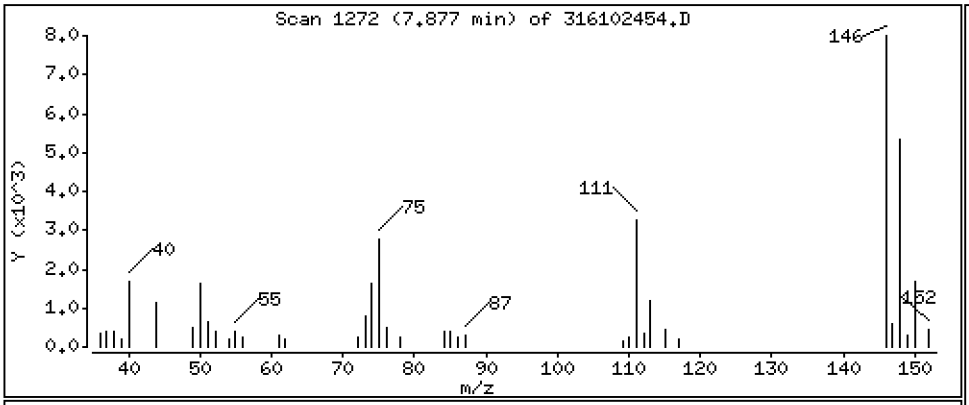
Client ID: Instrument: ms03.i

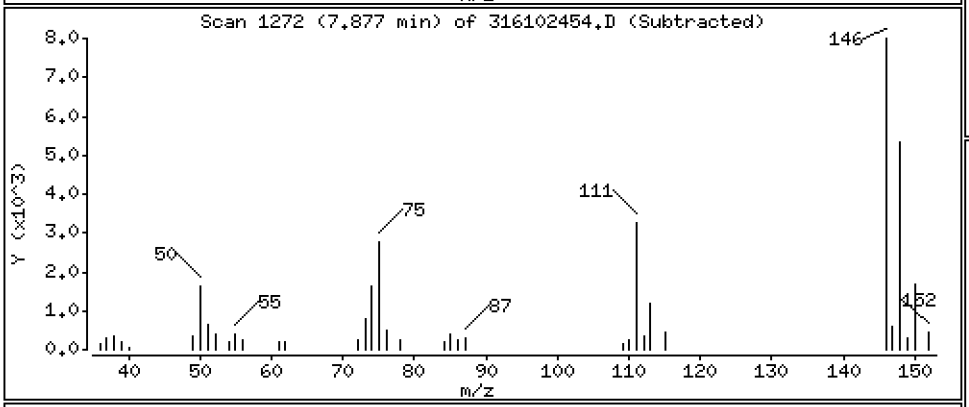
Sample Info: 1234;;1;1;1;;;

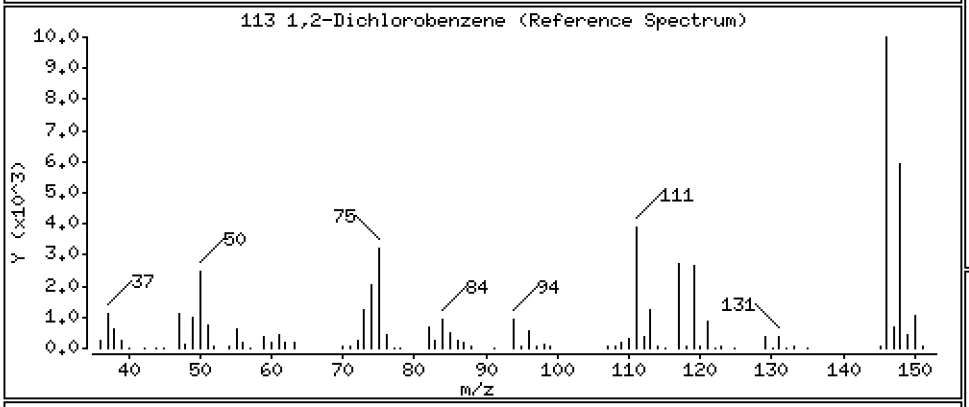
Purge Volume: 5.0 Operator: CJG

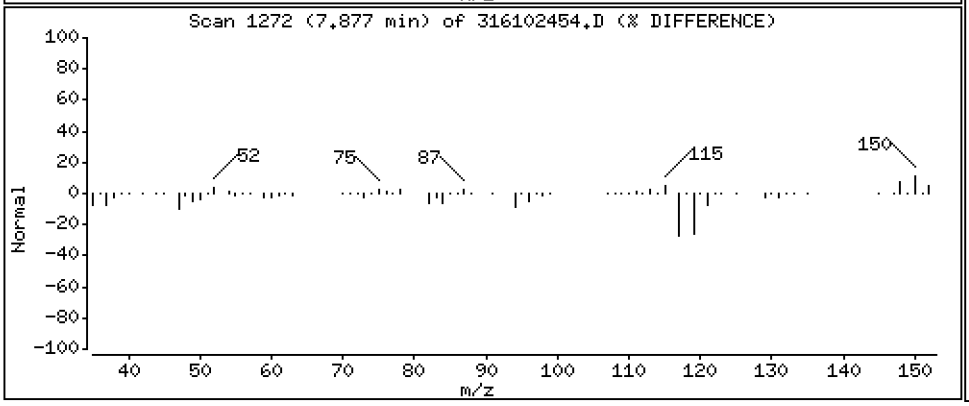
Column phase: DB-VRX Column diameter: 0.25

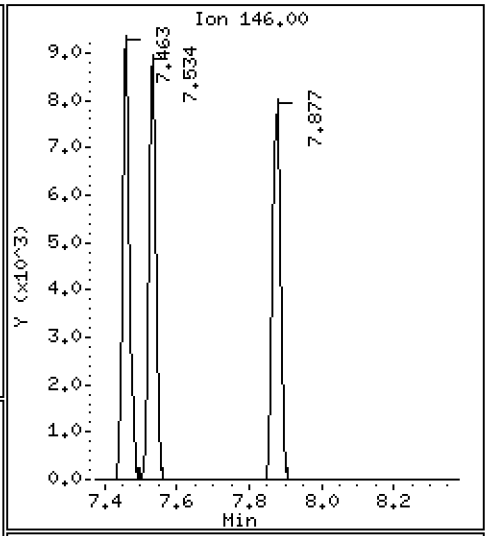
113 1,2-Dichlorobenzene Concentration: 1.20902 ug/L

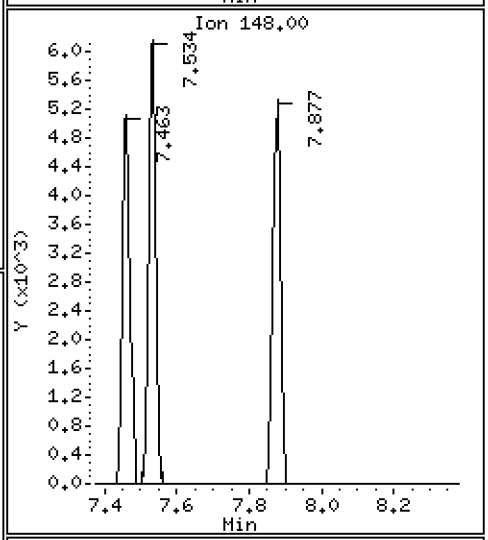


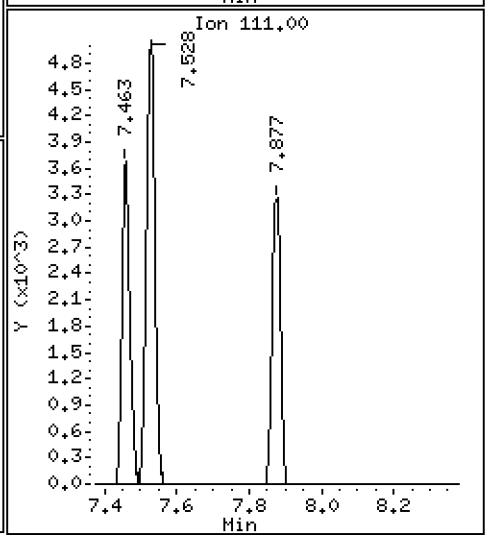












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 114

Date : 24-OCT-2016 23:46

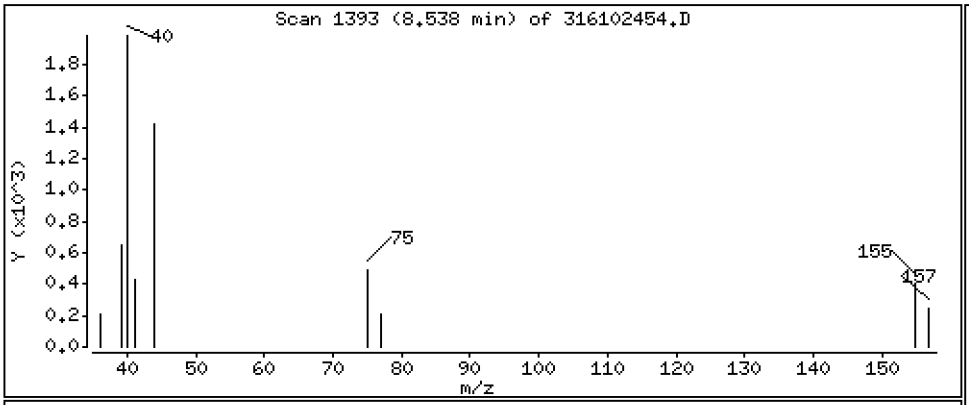
Client ID: Instrument: ms03.i

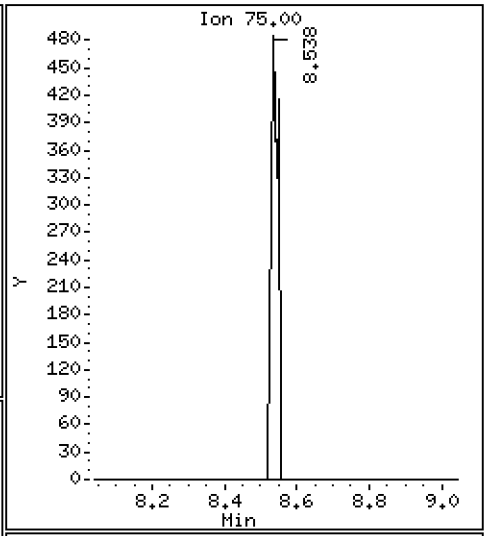
Sample Info: 1234;;1;1;1;;;

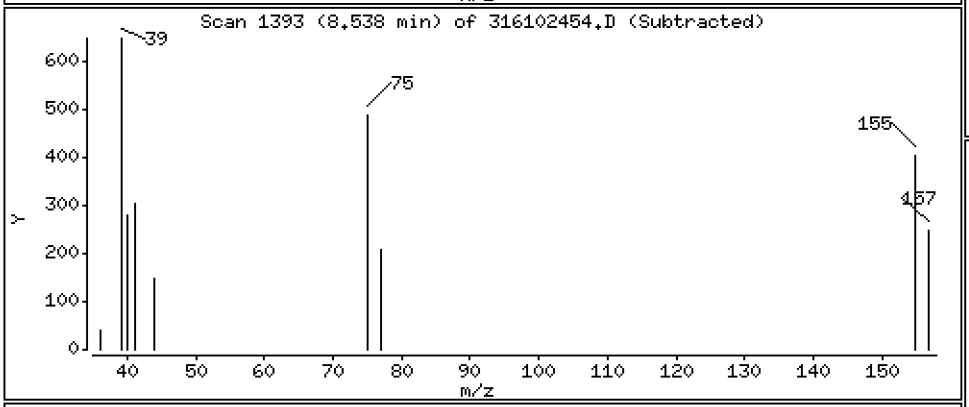
Purge Volume: 5.0 Operator: CJG

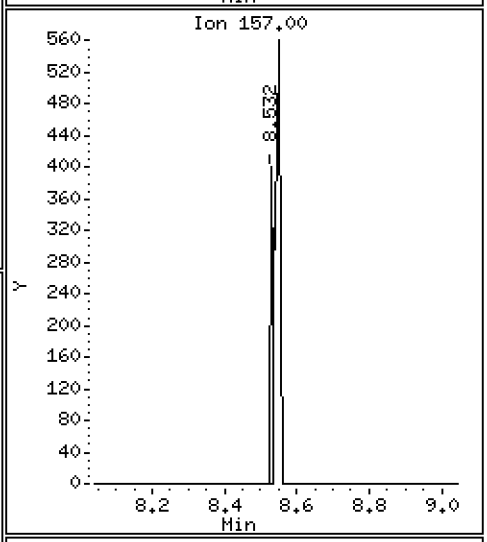
Column phase: DB-VRX Column diameter: 0.25

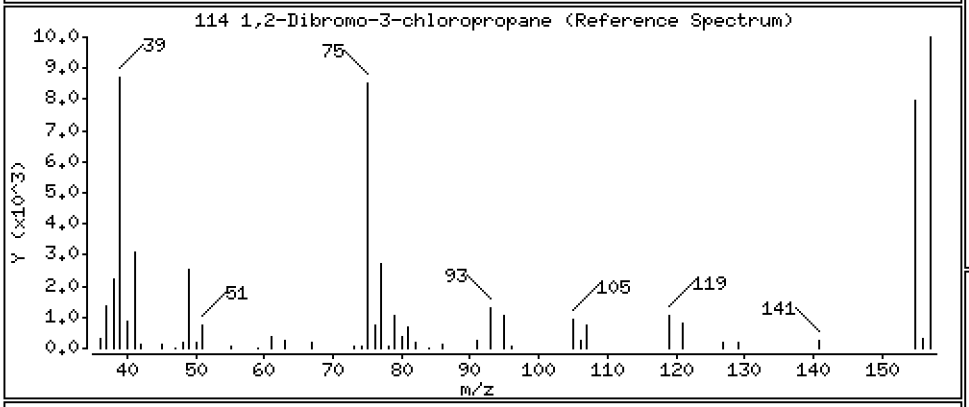
114 1,2-Dibromo-3-chloropropane Concentration: 0.814872 ug/L

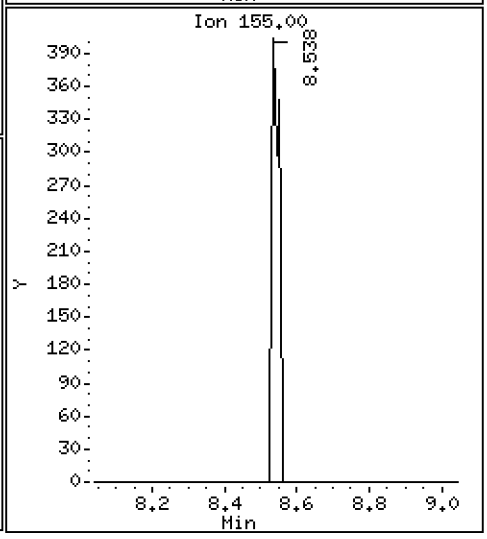


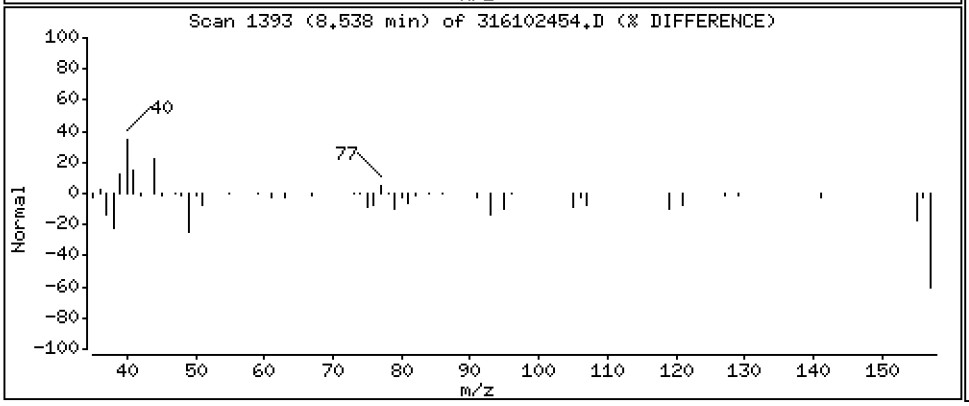












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 115

Date : 24-OCT-2016 23:46

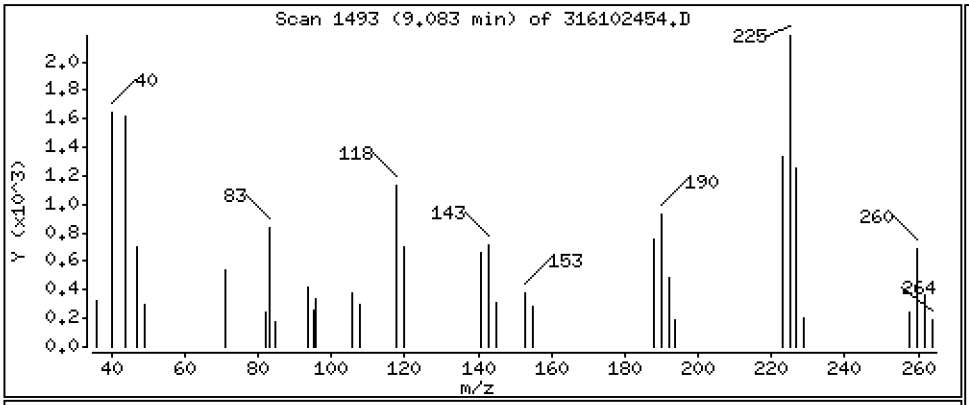
Client ID: Instrument: ms03.i

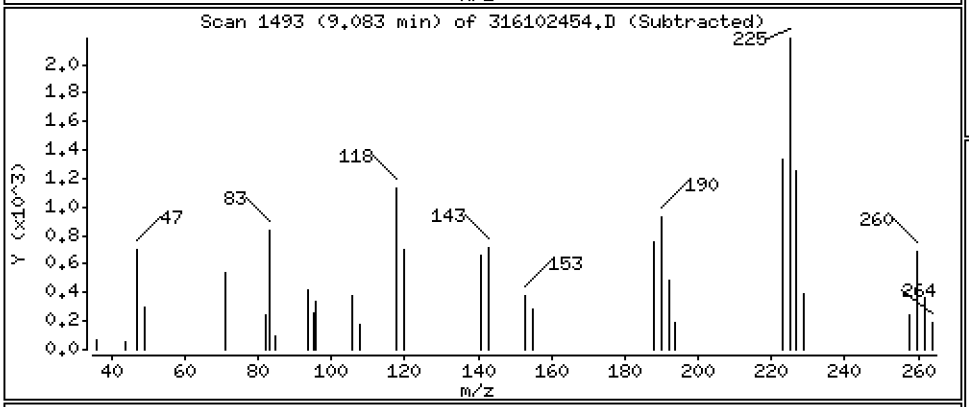
Sample Info: 1234;;1;1;1;;;

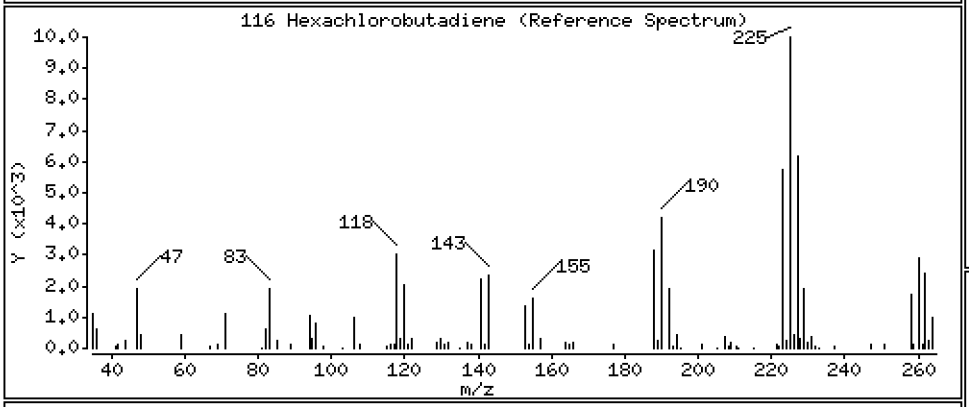
Purge Volume: 5.0 Operator: CJG

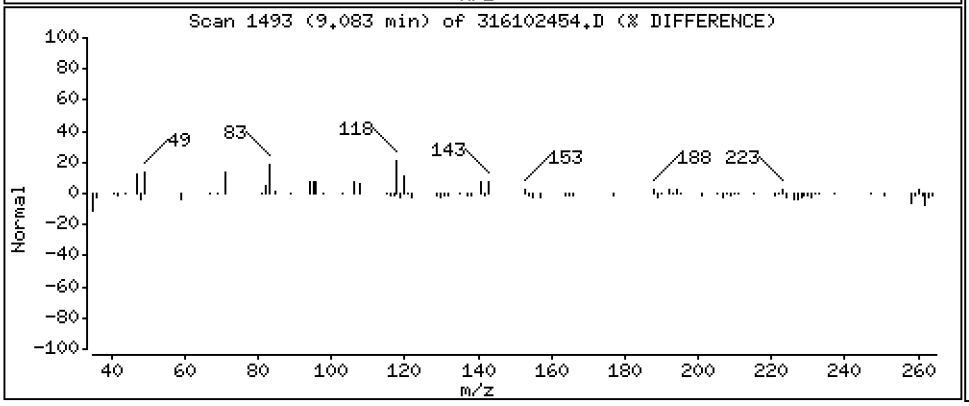
Column phase: DB-VRX Column diameter: 0.25

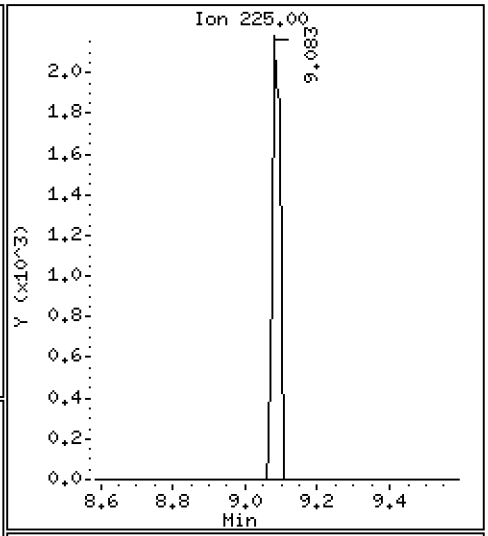
116 Hexachlorobutadiene Concentration: 1.75584 ug/L

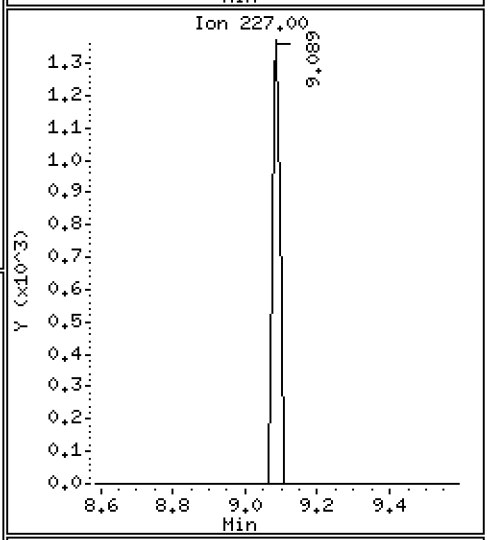


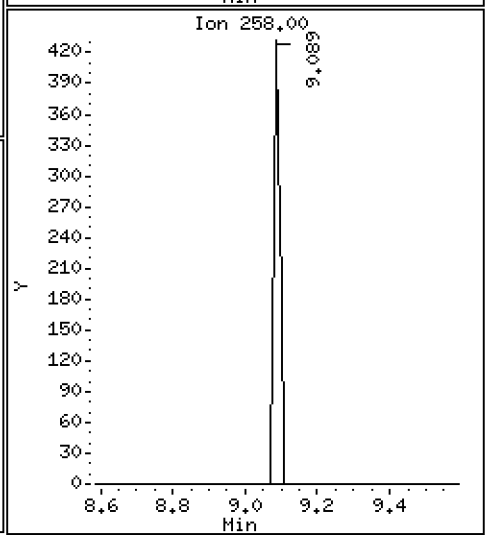












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 116

Date : 24-OCT-2016 23:46

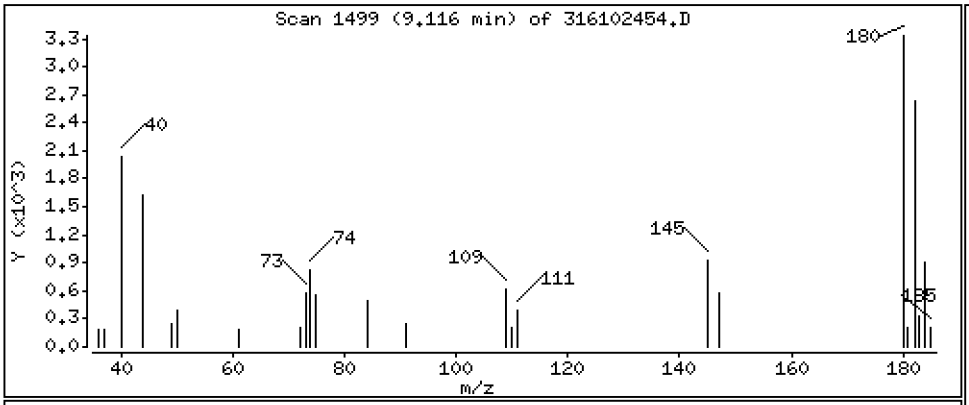
Client ID: Instrument: ms03.i

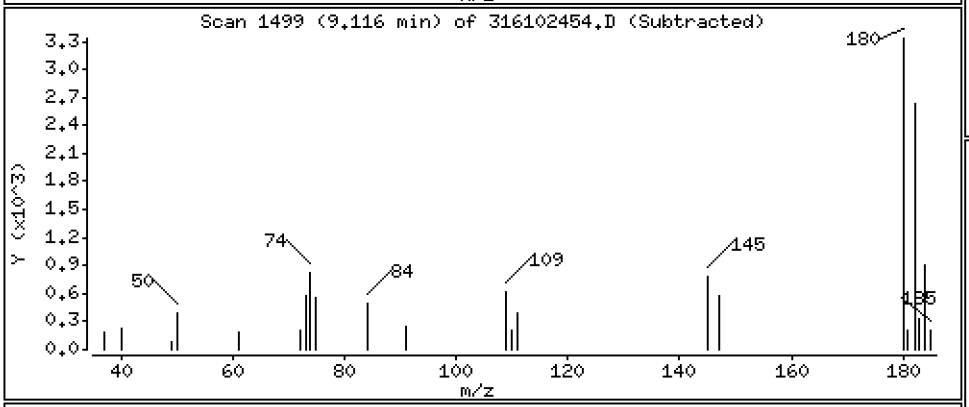
Sample Info: 1234;;1;1;1;;;

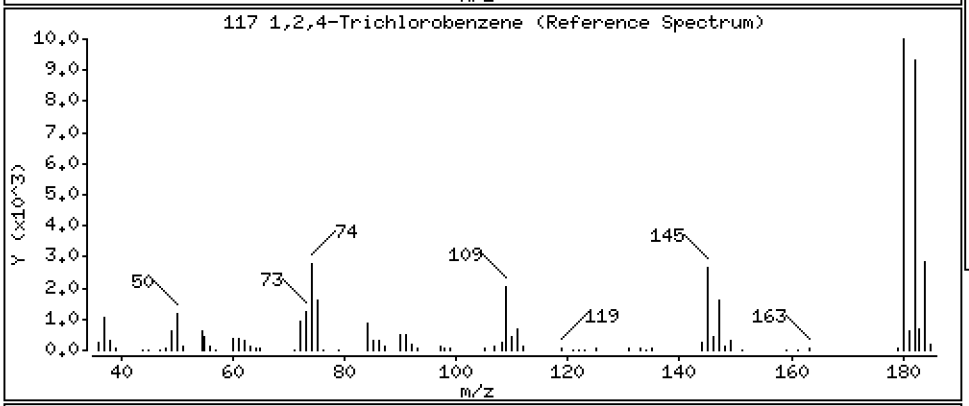
Purge Volume: 5.0 Operator: CJG

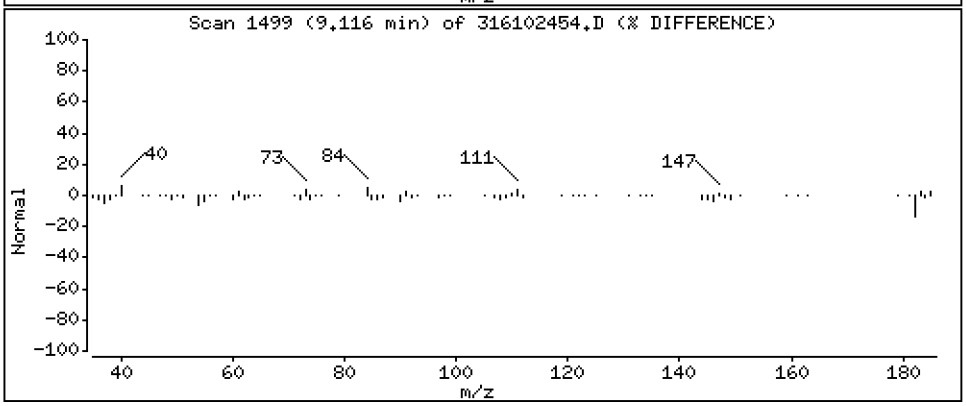
Column phase: DB-VRX Column diameter: 0.25

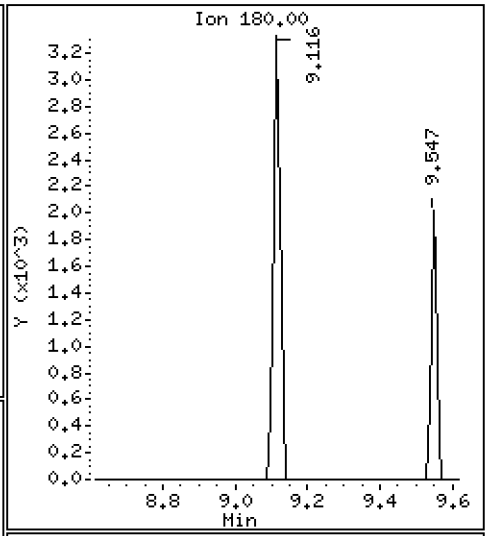
117 1,2,4-Trichlorobenzene Concentration: 1.03635 ug/L

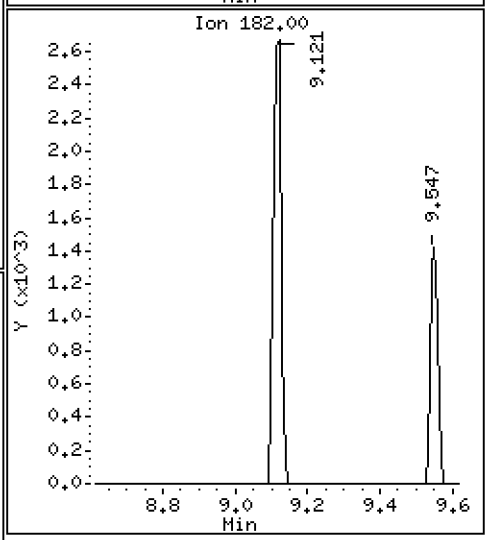












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 117

Date : 24-OCT-2016 23:46

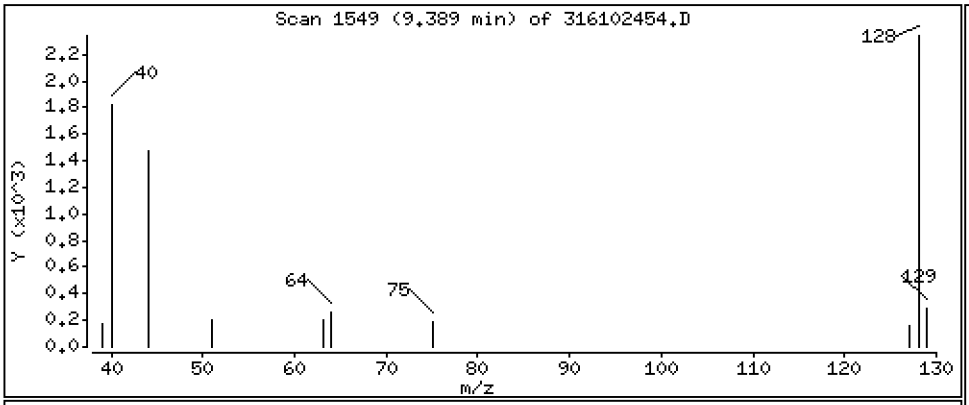
Client ID: Instrument: ms03.i

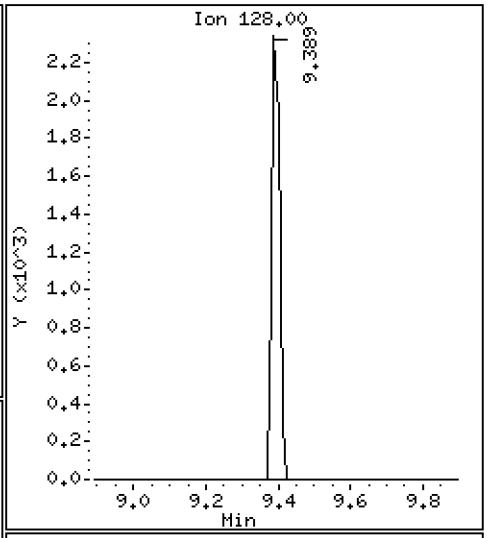
Sample Info: 1234;;1;1;1;;;

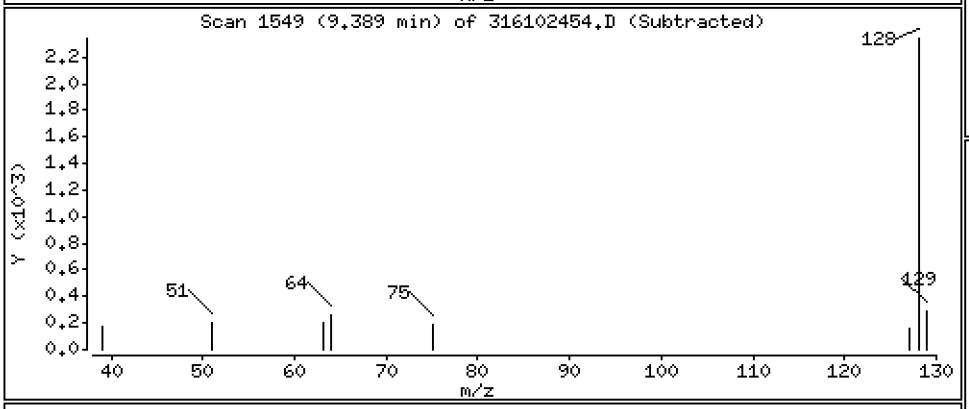
Purge Volume: 5.0 Operator: CJG

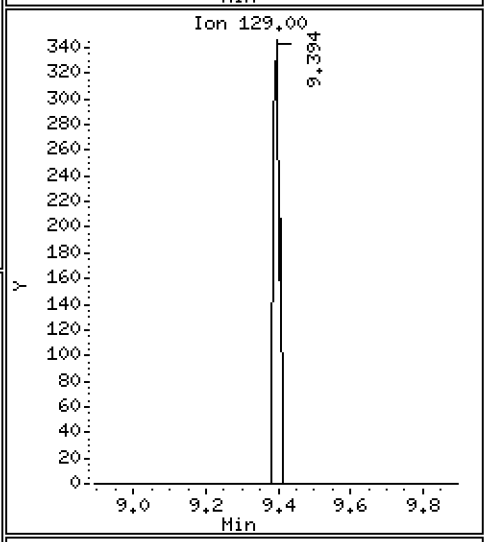
Column phase: DB-VRX Column diameter: 0.25

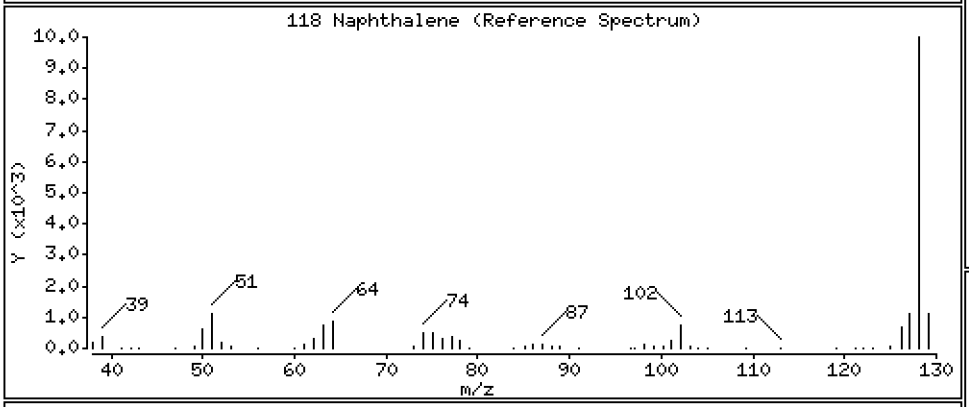
118 Naphthalene Concentration: 0.495082 ug/L

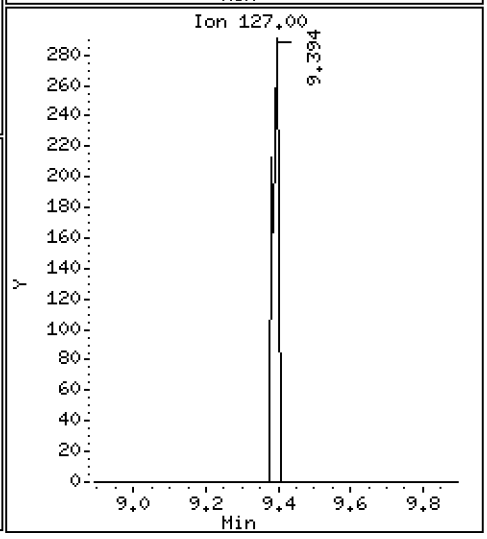


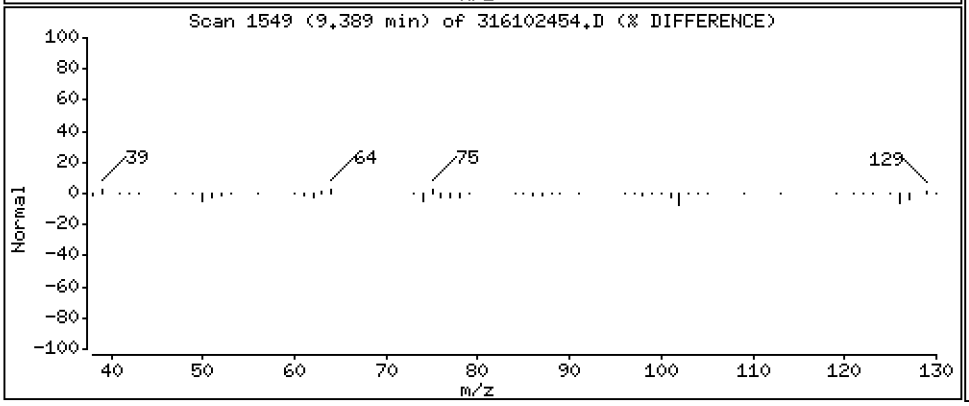












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 118

Date : 24-OCT-2016 23:46

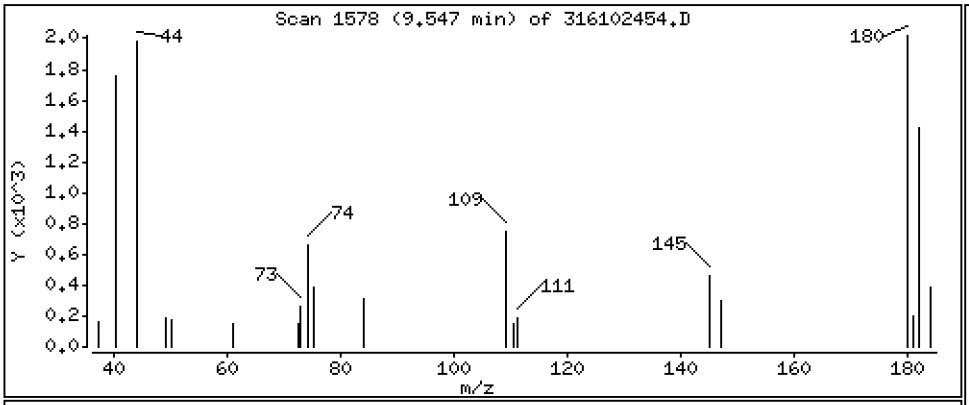
Client ID: Instrument: ms03.i

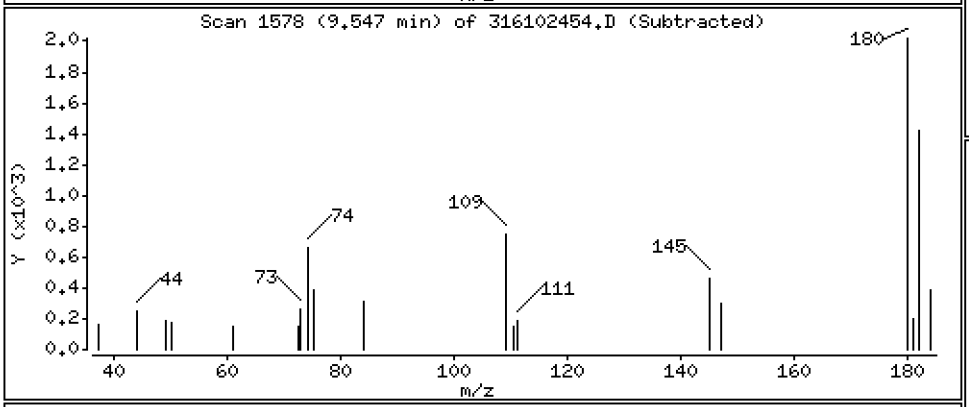
Sample Info: 1234;;1;1;1;;;

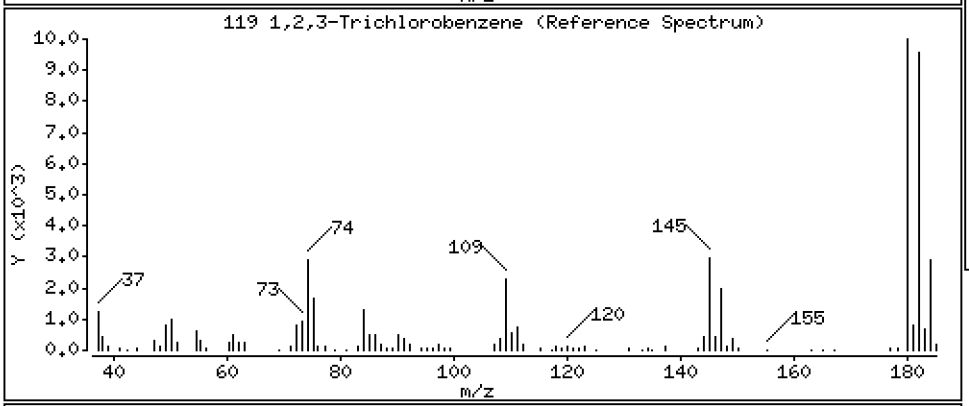
Purge Volume: 5.0 Operator: CJG

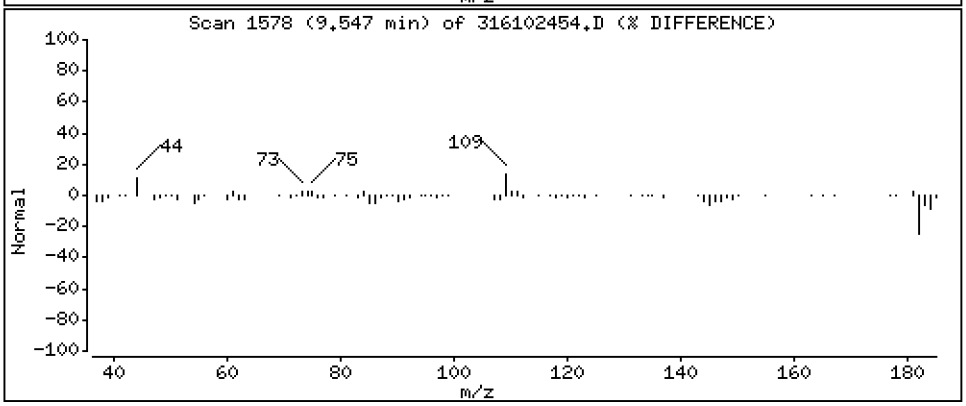
Column phase: DB-VRX Column diameter: 0.25

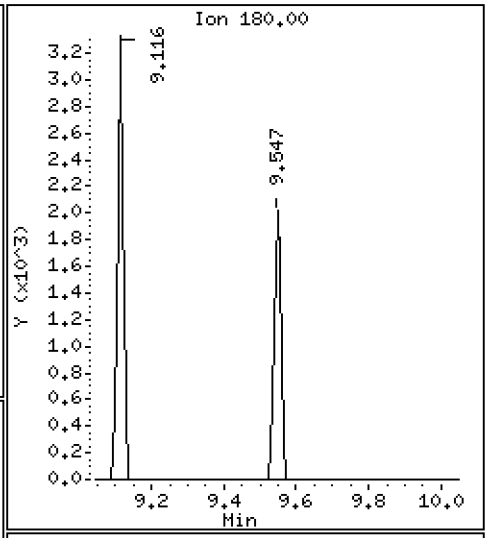
119 1,2,3-Trichlorobenzene Concentration: 0.993244 ug/L

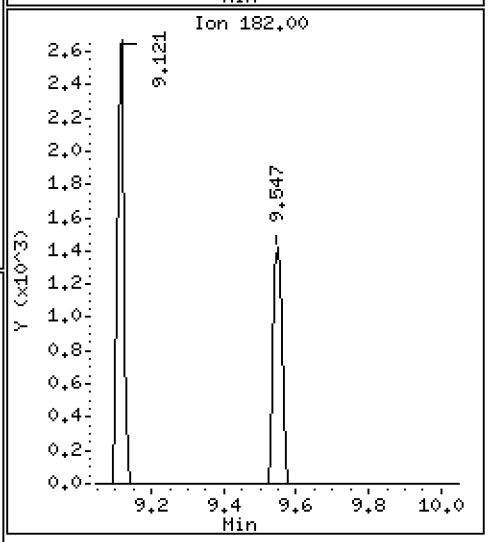








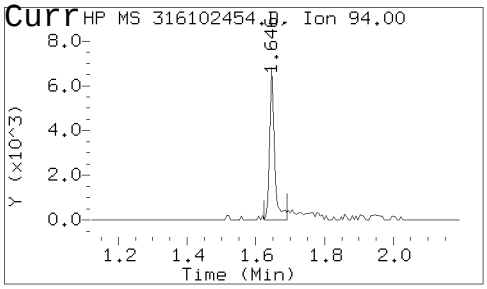


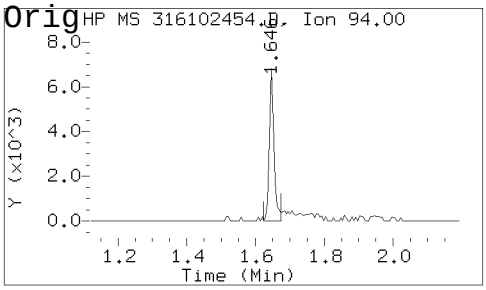


MANUAL INTEGRATION REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1234 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102454.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102454.D
Injection Date: 24-OCT-2016 23:46 Operator: CJG

Bromomethane

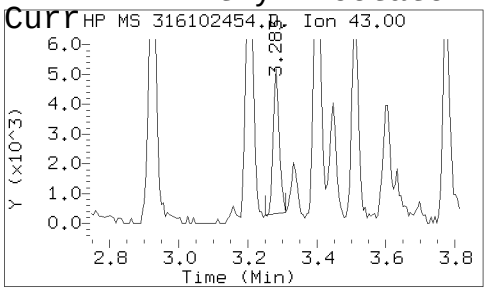


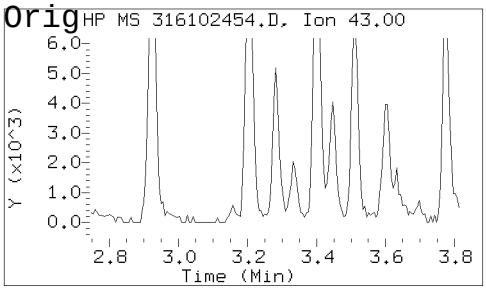


Curr. Area: 6707
Orig. Area: 6321

Curr. ON-COL: 1.76167
Orig. ON-COL: 1.22744

Ethyl Acetate

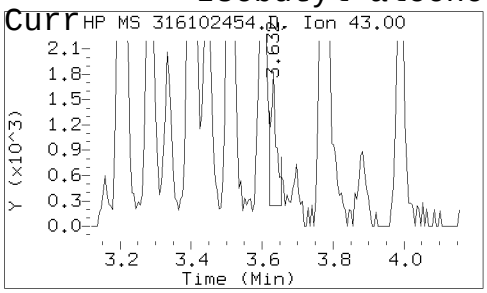


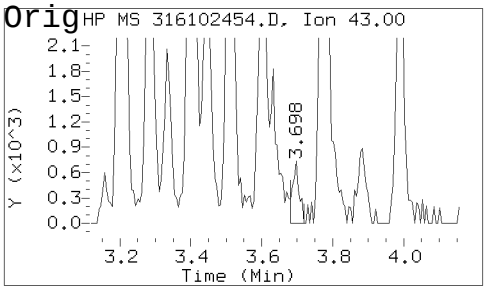


Curr. Area: 6242
Orig. Area: 0

Curr. ON-COL: 0.893259
Orig. ON-COL: 0.000000

Isobutyl alcohol

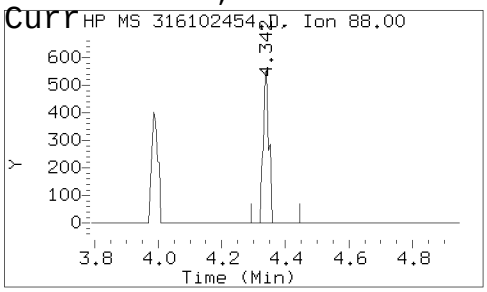


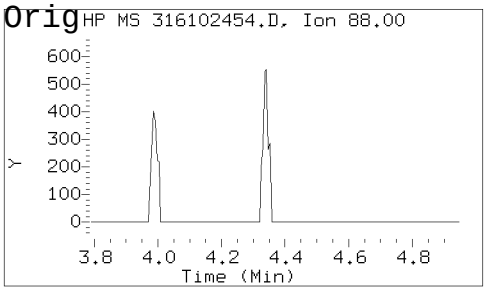


Curr. Area: 1844
Orig. Area: 966

Curr. ON-COL: 12.1183
Orig. ON-COL: 5.00179

1,4-Dioxane

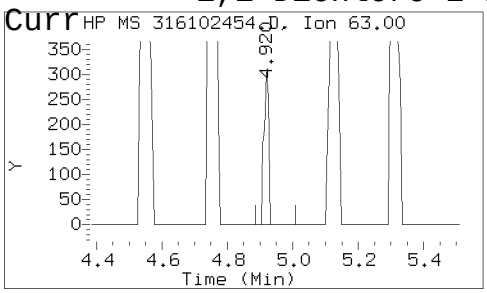


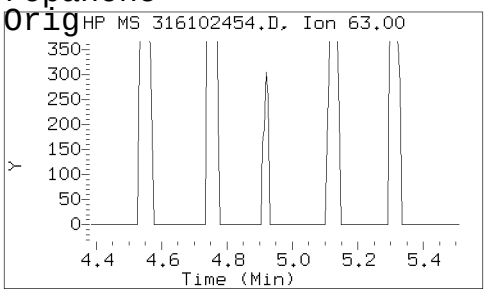


Curr. Area: 693
Orig. Area: 0

Curr. ON-COL: 21.8040
Orig. ON-COL: 0.000000

1,1-Dichloro-2-Propanone





Curr. Area: 298
Orig. Area: 0

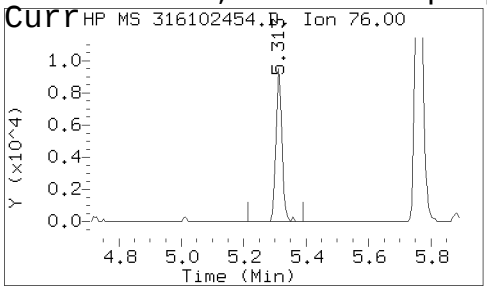
Curr. ON-COL: 2.39886
Orig. ON-COL: 0.000000

MANUAL INTEGRATION REPORT

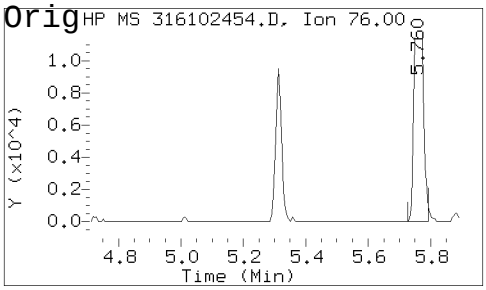
Report Date: 10/25/2016 10:12
Lab Sample ID: 1234 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102454.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102454.D
Injection Date: 24-OCT-2016 23:46 Operator: CJG

1,3-Dichloropropane

Curr



Orig



Curr. Area: 12677
Orig. Area: 43054

Curr. ON-COL: 1.12767
Orig. ON-COL: 2.57802

UNASSIGNED PEAK REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1234 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102454.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102454.D
Injection Date: 24-OCT-2016 23:46 Operator: CJG

Data File: 316102455.D Page 1
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610245
Lab Smp Id: 1235
Inj Date : 25-OCT-2016 00:08
Operator : CJG Inst ID: ms03.i
Smp Info : 1235;;1;1;2;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b0
Meth Date : 25-Oct-2016 10:10 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 00:08 Cal File: 316102455.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: ALMDTW7062

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.259	(0.332)	66929	5.00000	5.66983	
2 Chloromethane	50	1.389	1.390	(0.367)	59314	5.00000	5.51749	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	65599	5.00000	5.35999	
4 Bromomethane	94	1.646	1.646	(0.434)	20074	5.00000	5.27260(M)	H
5 Chloroethane	64	1.722	1.723	(0.454)	40365	5.00000	5.51071	
6 Pentane	41	1.793	1.794	(0.473)	40716	5.00000	6.42848	
7 Trichlorofluoromethane	101	1.799	1.799	(0.475)	72659	5.00000	5.83139	
8 Dichlorofluoromethane	67	1.826	1.826	(0.482)	89528	5.00000	5.55616	
9 Ethyl Ether	74	1.968	1.968	(0.519)	29226	5.00000	5.53817	
10 1,1-Dichloroethene	61	2.088	2.088	(0.551)	60696	5.00000	5.43008	
11 Freon 113	101	2.104	2.105	(0.555)	36072	5.00000	6.10634	
12 Carbon Disulfide	76	2.120	2.121	(0.560)	94716	5.00000	4.73689	
13 Iodomethane	127	2.180	2.181	(0.575)	2578	5.00000	4.71317(Q)	
14 Acrolein	56	2.273	2.274	(0.600)	54142	50.0000	48.4025	
15 Isopropyl Alcohol	45	2.328	2.334	(0.614)	6543	25.0000	25.4454	
16 3-Chloro-1-propene	41	2.344	2.345	(0.619)	49207	5.00000	4.50606	
17 Methylene Chloride	84	2.404	2.405	(0.634)	49321	5.00000	5.24071	
18 Acetone	58	2.426	2.427	(0.640)	15816	25.0000	26.9980	
19 Methyl acetate	74	2.481	2.481	(0.655)	6141	5.00000	5.11895	
20 trans-1,2-Dichloroethene	61	2.486	2.487	(0.656)	59448	5.00000	5.39652	
21 Hexane	57	2.519	2.519	(0.665)	78754	5.00000	5.00084	

Data File: 316102455.D Page 2
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.530	2.530	(0.667)	95511	5.00000	4.76458	
	23 tert.- Butyl Alcohol	59	2.562	2.563	(0.676)	11271	25.0000	26.3835	
	24 Acetonitrile	41	2.682	2.683	(0.708)	19368	25.0000	26.5647	
	25 Diisopropyl ether	45	2.721	2.721	(0.718)	128312	5.00000	4.64902	
	26 Chloroprene	53	2.797	2.798	(0.738)	56678	5.00000	5.06181	
	27 1,1-Dichloroethane	63	2.813	2.814	(0.742)	79832	5.00000	5.51333	
	28 Acrylonitrile	53	2.841	2.841	(0.750)	67856	25.0000	24.8024	
	29 Ethyl tert-butyl ether	59	2.912	2.912	(0.768)	105202	5.00000	4.47169	
	30 n-Propanol	41	2.912	2.912	(0.768)	28174	50.0000	53.0785(aQ)	
	31 Vinyl Acetate	86	2.928	2.929	(0.773)	6734	5.00000	4.20841(aQ)	
	32 cis-1,2-Dichloroethene	61	3.097	3.098	(0.817)	59353	5.00000	5.30145	
	33 2,2-Dichloropropane	77	3.163	3.158	(0.834)	47659	5.00000	5.15694	
	34 Bromochloromethane	128	3.206	3.207	(0.846)	15919	5.00000	4.75087(Q)	
	35 Cyclohexane	84	3.212	3.212	(0.847)	64779	5.00000	5.99614	
	36 Chloroform	83	3.234	3.234	(0.853)	82953	5.00000	5.86191	
	37 Ethyl Acetate	43	3.283	3.278	(0.866)	31989	5.00000	4.63601(QM)	IH
	38 Methyl acrylate	55	3.294	3.294	(0.869)	30911	5.00000	4.68903	
	39 Carbon Tetrachloride	117	3.326	3.321	(0.878)	39996	5.00000	5.32435	
	40 Tetrahydrofuran	42	3.332	3.327	(0.879)	51432	25.0000	24.4943	
$	41 Dibromofluoromethane	113	3.337	3.338	(0.881)	29917	5.00000	5.12171	
	42 1,1,1-Trichloroethane	97	3.359	3.360	(0.886)	53938	5.00000	5.16873	
	43 2-Butanone	72	3.403	3.398	(0.898)	23501	25.0000	26.6274(Q)	
	44 1,1-Dichloropropene	75	3.425	3.425	(0.904)	58952	5.00000	5.64694	
	45 1-Chlorobutane	41	3.446	3.447	(0.909)	49665	5.00000	5.84834	
	46 Heptane	71	3.512	3.512	(0.927)	24106	5.00000	4.89757	
	47 Benzene	78	3.561	3.567	(0.940)	179233	5.00000	5.42687	
	48 Propionitrile	54	3.577	3.578	(0.944)	25625	25.0000	25.4875	
	49 Methacrylonitrile	67	3.583	3.583	(0.945)	15286	5.00000	5.03587(Q)	
	50 tert-Amyl methyl ether	73	3.599	3.600	(0.950)	89164	5.00000	4.87002	
$	51 1,2-Dichloroethane-d4	65	3.637	3.638	(0.960)	42642	5.00000	5.33132	
	52 1,2-Dichloroethane	62	3.676	3.676	(0.970)	52473	5.00000	5.28320	
	53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	7326	25.0000	21.7843	
	54 Isobutyl alcohol	43	3.632	3.632	(0.958)	8432	50.0000	55.2435(aQ)	
*	55 Fluorobenzene	96	3.790	3.791	(1.000)	965707	30.0000		
	56 Diisobutylene	57	3.790	3.796	(1.000)	134530	5.00000	6.77682	
	57 Trichloroethene	95	3.883	3.883	(1.024)	40271	5.00000	5.51785	
	58 Methyl cyclohexane	83	3.883	3.883	(0.674)	65701	5.00000	5.89290	
	59 tert-Amyl Ethylether	59	3.992	3.987	(1.053)	75193	5.00000	4.48425	
	60 Dibromomethane	93	4.139	4.139	(1.092)	20984	5.00000	5.07669	
	61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	42691	5.00000	4.99016	
	62 Bromodichloromethane	83	4.221	4.222	(1.114)	40150	5.00000	4.48588	
	63 Methyl methacrylate	41	4.292	4.293	(1.132)	26169	5.00000	4.09792	
	64 1,4-Dioxane	88	4.341	4.336	(1.145)	3781	125.000	120.749(a)	
	65 2-Chloroethylvinyl ether	63	4.549	4.549	(1.200)	13233	5.00000	3.45759	
	66 cis-1,3-Dichloropropene	75	4.603	4.604	(0.799)	47567	5.00000	4.15473	
	67 Octane	85	4.609	4.609	(0.800)	15009	5.00000	4.70949(a)	
$	68 Toluene-d8	98	4.723	4.724	(0.820)	122700	5.00000	4.94876	
	69 Toluene	92	4.756	4.756	(0.826)	97106	5.00000	5.39713	
	70 Chloroacetonitrile	48	4.832	4.833	(0.839)	3588	25.0000	21.0508(aQ)	
	71 2-Nitropropane	41	4.909	4.909	(0.852)	24191	25.0000	18.5117	
	72 1,1-Dichloro-2-Propanone	63	4.920	4.920	(0.854)	2477	25.0000	19.7526(aQM)	IH
	73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.986	(0.865)	157720	25.0000	22.5913	
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	29126	5.00000	6.40061	
	75 trans-1,3-Dichloropropene	75	5.018	5.013	(0.871)	42872	5.00000	4.26371	

Data File: 316102455.D Page 3
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.094	5.095	(0.884)	37412	5.00000	4.02947(Q)	
	77 1,1,2-Trichloroethane	83	5.127	5.122	(0.890)	28504	5.00000	5.39868	
	78 Chlorodibromomethane	129	5.247	5.247	(0.911)	22034	5.00000	4.20668	
	79 1,3-Dichloropropane	76	5.312	5.313	(0.922)	59764	5.00000	5.28577(QM)	IH
	80 1,2-Dibromoethane	107	5.422	5.422	(0.941)	26194	5.00000	4.83206	
	81 2-Hexanone	43	5.542	5.542	(0.962)	93216	25.0000	20.5432	
	82 1-Chlorohexane	91	5.738	5.739	(0.996)	46426	5.00000	5.07295(Q)	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	402822	30.0000		
	84 Chlorobenzene	112	5.771	5.777	(1.002)	100243	5.00000	5.67543	
	85 Ethylbenzene	106	5.782	5.782	(1.004)	55576	5.00000	5.72338	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.815	(1.009)	26265	5.00000	4.98751	
	87 mp-Xylene	106	5.880	5.880	(1.021)	128570	10.0000	10.9242	
	88 o-Xylene	106	6.196	6.197	(1.076)	55160	5.00000	4.93441	
	89 Styrene	104	6.235	6.235	(0.829)	87542	5.00000	4.91679	
	90 Bromoform	173	6.262	6.262	(0.833)	8896	5.00000	4.09499	
	91 Isopropylbenzene	105	6.426	6.426	(0.855)	145184	5.00000	5.35267	
$	92 4-Bromofluorobenzene	174	6.649	6.650	(0.885)	23610	5.00000	4.82802	
	93 Bromobenzene	156	6.731	6.732	(0.895)	30039	5.00000	5.47376	
	94 n-Propylbenzene	120	6.737	6.737	(0.896)	36210	5.00000	5.23707	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.792	(0.903)	34343	5.00000	5.22071	
	96 o-Chlorotoluene	91	6.868	6.868	(0.914)	117009	5.00000	5.47627	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.916)	106709	5.00000	5.09809	
	98 1,2,3-Trichloropropane	110	6.906	6.906	(0.919)	10176	5.00000	5.32925	
	99 trans-1,4-Dichloro-2-butene	53	6.933	6.933	(0.922)	7595	5.00000	4.28306(Q)	
M	100 1,2-Dichloroethene, Total	61				118801	10.0000	10.6980	
	101 p-Chlorotoluene	91	6.993	6.994	(0.930)	105235	5.00000	5.34408	
	102 tert-Butylbenzene	134	7.140	7.141	(0.950)	24204	5.00000	5.41204(Q)	
	103 Pentachloroethane	117	7.162	7.163	(0.953)	18620	5.00000	4.82343(Q)	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.957)	106693	5.00000	5.11496	
	105 sec-Butylbenzene	105	7.277	7.277	(0.968)	131291	5.00000	5.18551	
	106 p-Isopropyltoluene	134	7.391	7.392	(0.983)	23734	5.00000	4.77453	
	107 1,3-Dichlorobenzene	146	7.462	7.463	(0.993)	56398	5.00000	5.73183	
*	108 1,4-Dichlorobenzene-d4	152	7.517	7.523	(1.000)	236717	30.0000		
	109 1,4-Dichlorobenzene	146	7.528	7.534	(1.001)	56880	5.00000	5.77243	
	110 Benzyl Chloride	126	7.730	7.736	(1.028)	3988	5.00000	3.26328(Q)	
	111 n-Butylbenzene	134	7.735	7.736	(1.029)	19439	5.00000	4.59482(Q)	
	112 Hexachloroethane	117	7.850	7.850	(1.044)	13009	5.00000	4.50141(Q)	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.048)	48183	5.00000	5.44857	
	114 1,2-Dibromo-3-chloropropane	75	8.537	8.542	(1.136)	3186	5.00000	4.52665(a)	
	115 Nitrobenzene	77	9.028	9.029	(1.201)	308	50.0000	102.889(QM)	H
	116 Hexachlorobutadiene	225	9.088	9.089	(1.209)	9195	5.00000	5.58003	
	117 1,2,4-Trichlorobenzene	180	9.116	9.116	(1.213)	15391	5.00000	4.19371	
	118 Naphthalene	128	9.399	9.394	(1.250)	16327	5.00000	2.54318	
	119 1,2,3-Trichlorobenzene	180	9.547	9.547	(1.270)	9536	5.00000	4.10567	
M	120 1,3-Dichloropropene, Total	75				90439	10.0000	8.41843	
M	121 Total Xylenes	106				183730	15.0000	15.8586	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 316102455.D Page 4
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 25-OCT-2016
Lab File ID: 316102455.D Calibration Time: 00:52
Lab Smp Id: 1235
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: CJG
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	965707	-4.68
83 Chlorobenzene-d5	432864	216432	865728	402822	-6.94
108 1,4-Dichlorobenze	273837	136919	547674	236717	-13.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102455.D Page 5
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1235
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.66983	
74-87-3	Chloromethane	5.51749	
75-01-4	Vinyl Chloride	5.35999	
74-83-9	Bromomethane	5.27260	
75-00-3	Chloroethane	5.51071	
109-66-0	Pentane	6.42848	
75-69-4	Trichlorofluoromethane	5.83139	
75-43-4	Dichlorofluoromethane	5.55616	
60-29-7	Ethyl Ether	5.53817	
75-35-4	1,1-Dichloroethene	5.43008	
76-13-1	Freon 113	6.10634	
75-15-0	Carbon Disulfide	4.73689	
74-88-4	Iodomethane	4.71317	
107-02-8	Acrolein	48.4025	
67-63-0	Isopropyl Alcohol	25.4454	
107-05-1	3-Chloro-1-propene	4.50606	
75-09-2	Methylene Chloride	5.24071	
67-64-1	Acetone	26.9980	
79-20-9	Methyl acetate	5.11895	
156-60-5	trans-1,2-Dichloroethene	5.39652	
110-54-3	Hexane	5.00084	
1634-04-4	Methyl t-Butyl Ether	4.76458	
75-65-0	tert.- Butyl Alcohol	26.3835	
75-05-8	Acetonitrile	26.5647	
108-20-3	Diisopropyl ether	4.64902	
126-99-8	Chloroprene	5.06181	
75-34-3	1,1-Dichloroethane	5.51333	
107-13-1	Acrylonitrile	24.8024	
637-92-3	Ethyl tert-butyl ether	4.47169	
71-23-8	n-Propanol	53.0785	J
108-05-4	Vinyl Acetate	4.20841	J
156-59-2	cis-1,2-Dichloroethene	5.30145	
594-20-7	2,2-Dichloropropane	5.15694	
74-97-5	Bromochloromethane	4.75087	
110-82-7	Cyclohexane	5.99614	
67-66-3	Chloroform	5.86191	
141-78-6	Ethyl Acetate	4.63601	
96-33-3	Methyl acrylate	4.68903	
56-23-5	Carbon Tetrachloride	5.32435	
109-99-9	Tetrahydrofuran	24.4943	
71-55-6	1,1,1-Trichloroethane	5.16873	
78-93-3	2-Butanone	26.6274	

Data File: 316102455.D Page 6
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1235
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
563-58-6	1,1-Dichloropropene	5.64694	
109-69-3	1-Chlorobutane	5.84834	
142-82-5	Heptane	4.89757	
71-43-2	Benzene	5.42687	
107-12-0	Propionitrile	25.4875	
126-98-7	Methacrylonitrile	5.03587	
994-05-8	tert-Amyl methyl ether	4.87002	
107-06-2	1,2-Dichloroethane	5.28320	
75-85-4	tert-Amyl Alcohol	21.7843	
78-83-1	Isobutyl alcohol	55.2435	J
107-39-1	Diisobutylene	6.77682	
79-01-6	Trichloroethene	5.51785	
108-87-2	Methyl cyclohexane	5.89290	
919-94-8	tert-Amyl Ethylether	4.48425	
74-95-3	Dibromomethane	5.07669	
78-87-5	1,2-Dichloropropane	4.99016	
75-27-4	Bromodichloromethane	4.48588	
80-62-6	Methyl methacrylate	4.09792	
123-91-1	1,4-Dioxane	120.749	J
110-75-8	2-Chloroethylvinyl ether	3.45759	
10061-01-5	cis-1,3-Dichloropropene	4.15473	
111-65-9	Octane	4.70949	J
108-88-3	Toluene	5.39713	
107-14-2	Chloroacetonitrile	21.0508	J
79-46-9	2-Nitropropane	18.5117	
513-88-2	1,1-Dichloro-2-Propanone	19.7526	J
108-10-1	4-Methyl-2-Pentanone(MIBK)	22.5913	
127-18-4	Tetrachloroethene	6.40061	
10061-02-6	trans-1,3-Dichloropropene	4.26371	
97-63-2	Ethyl Methacrylate	4.02947	
79-00-5	1,1,2-Trichloroethane	5.39868	
124-48-1	Chlorodibromomethane	4.20668	
142-28-9	1,3-Dichloropropane	5.28577	
106-93-4	1,2-Dibromoethane	4.83206	
591-78-6	2-Hexanone	20.5432	
544-10-5	1-Chlorohexane	5.07295	
108-90-7	Chlorobenzene	5.67543	
100-41-4	Ethylbenzene	5.72338	
630-20-6	1,1,1,2-Tetrachloroethane	4.98751	
108383/106423	m-p-Xylene	10.9242	
95-47-6	o-Xylene	4.93441	
100-42-5	Styrene	4.91679	

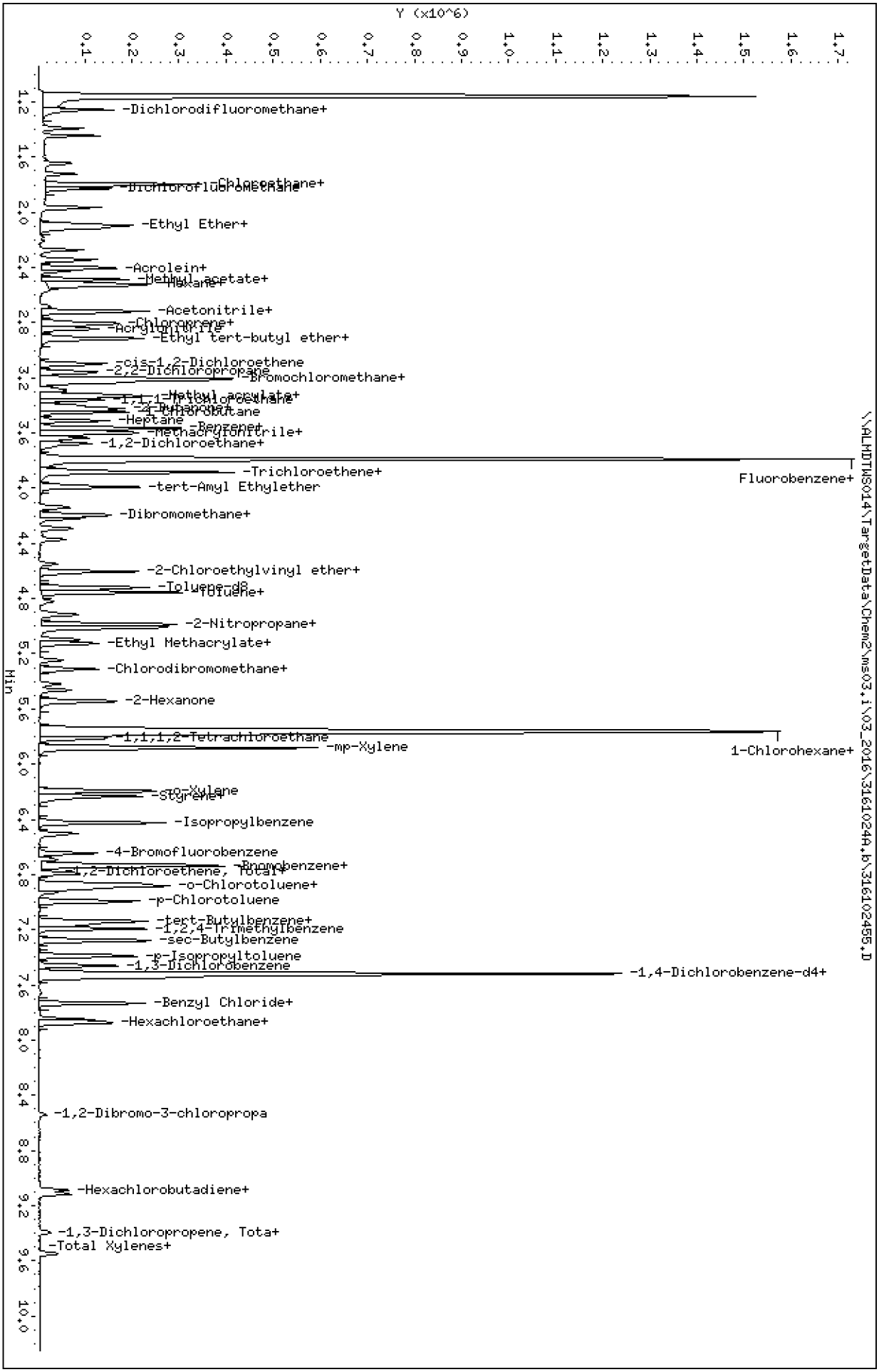
Data File: 316102455.D Page 7
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1235
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-25-2	Bromoform	4.09499	
98-82-8	Isopropylbenzene	5.35267	
108-86-1	Bromobenzene	5.47376	
103-65-1	n-Propylbenzene	5.23707	
79-34-5	1,1,2,2-Tetrachloroethane	5.22071	
95-49-8	o-Chlorotoluene	5.47627	
108-67-8	1,3,5-Trimethylbenzene	5.09809	
96-18-4	1,2,3-Trichloropropane	5.32925	
110-57-6	trans-1,4-Dichloro-2-butene	4.28306	
540-59-0	1,2-Dichloroethene, Total	10.6980	
106-43-4	p-Chlorotoluene	5.34408	
98-06-6	tert-Butylbenzene	5.41204	
76-01-7	Pentachloroethane	4.82343	
95-63-6	1,2,4-Trimethylbenzene	5.11496	
135-98-8	sec-Butylbenzene	5.18551	
99-87-6	p-Isopropyltoluene	4.77453	
541-73-1	1,3-Dichlorobenzene	5.73183	
106-46-7	1,4-Dichlorobenzene	5.77243	
100-44-7	Benzyl Chloride	3.26328	
104-51-8	n-Butylbenzene	4.59482	
67-72-1	Hexachloroethane	4.50141	
95-50-1	1,2-Dichlorobenzene	5.44857	
96-12-8	1,2-Dibromo-3-chloropropane	4.52665	J
98-95-3	Nitrobenzene	102.889	
87-68-3	Hexachlorobutadiene	5.58003	
120-82-1	1,2,4-Trichlorobenzene	4.19371	
91-20-3	Naphthalene	2.54318	
87-61-6	1,2,3-Trichlorobenzene	4.10567	
542-75-6	1,3-Dichloropropene, Total	8.41843	
1330-20-7	Total Xylenes	15.8586	
1868-53-7	Dibromofluoromethane	5.12171	
17060-07-0	1,2-Dichloroethane-d4	5.33132	
2037-26-5	Toluene-d8	4.94876	
460-00-4	4-Bromofluorobenzene	4.82802	


Y (x10^6)
Min
-Dichlorodifluoromethane+
-Chloroethane+
-Dichlorofluoromethane
-Ethyl Ether+
-Acrolein+
-Methyl acetate+
Hexane+
-Acetonitrile+
-Chloroprene+
-Acrylonitrile
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Methyl acrylate+
-Tetrahydrofuran
-Heptane
-Benzene+
-Methacrylonitrile+
-1,2-Dichloroethane+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane+
-2-Chloroethylvinyl ether+
-Toluene-d8
Toluene+
-2-Nitropropane+
-Ethyl Methacrylate+
-Chlorodibromomethane+
-2-Hexanone
-1,1,1,2-Tetrachloroethane
-mp-Xylene
-o-Xylene
-Styrene+
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-1,2-Dichloroethene, Total+
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-Benzyl Chloride+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-Hexachlorobutadiene+
-1,3-Dichloropropene, Tota+
-Total Xylenes+
Fluorobenzene+
1-Chlorohexane+
-1,4-Dichlorobenzene-d4+
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S5.D
Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S5.D
Date : 25-OCT-2016 00:08
Client ID:
Sample Info: 1235;;1;1;2;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
Page 8

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 9

Date : 25-OCT-2016 00:08

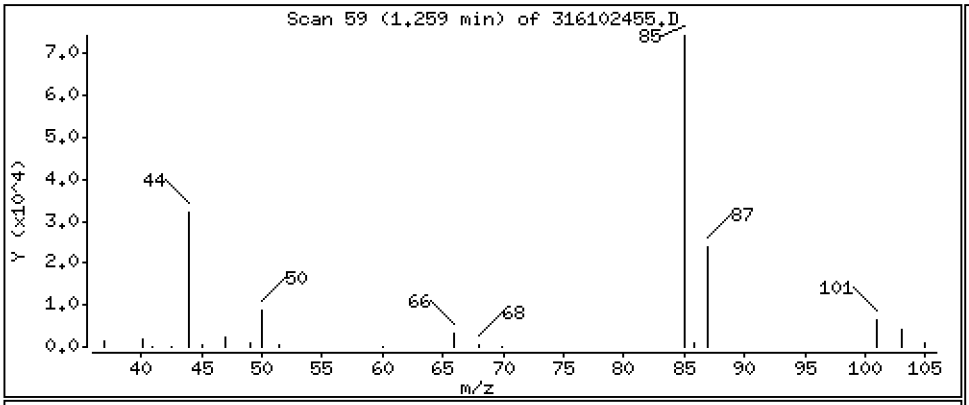
Client ID: Instrument: ms03.i

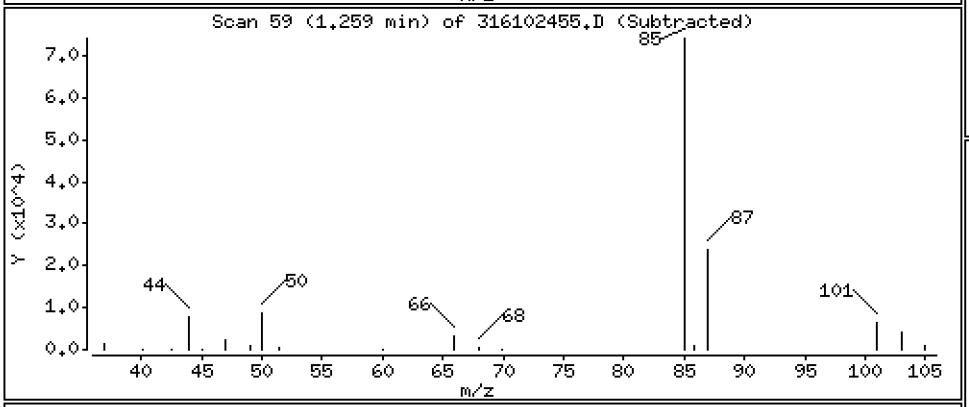
Sample Info: 1235;;1;1;2;;;

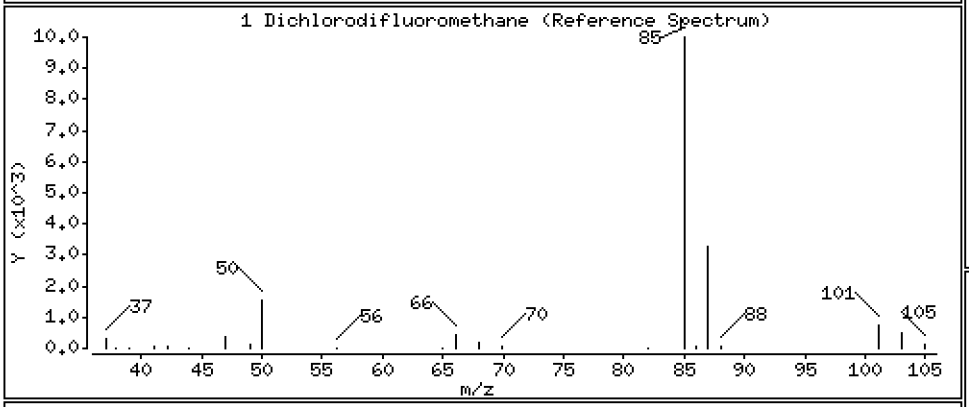
Purge Volume: 5.0 Operator: CJG

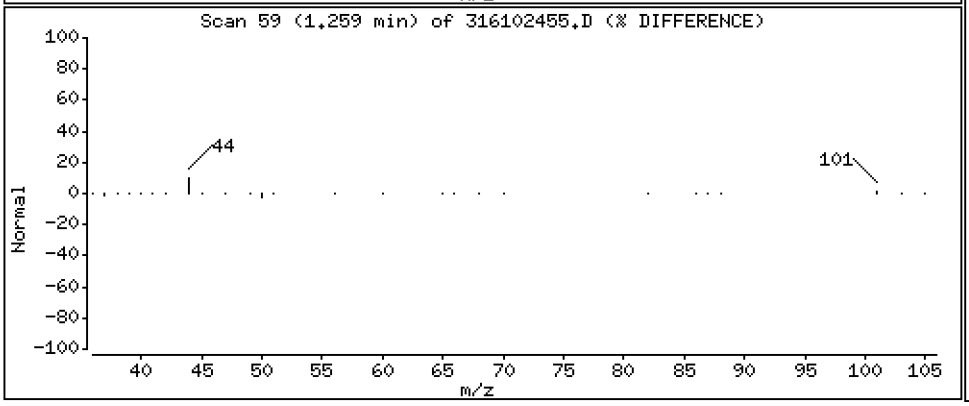
Column phase: DB-VRX Column diameter: 0.25

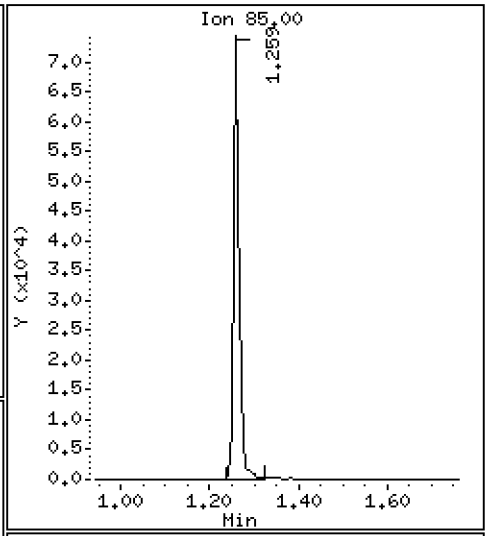
1 Dichlorodifluoromethane Concentration: 5.66983 ug/L

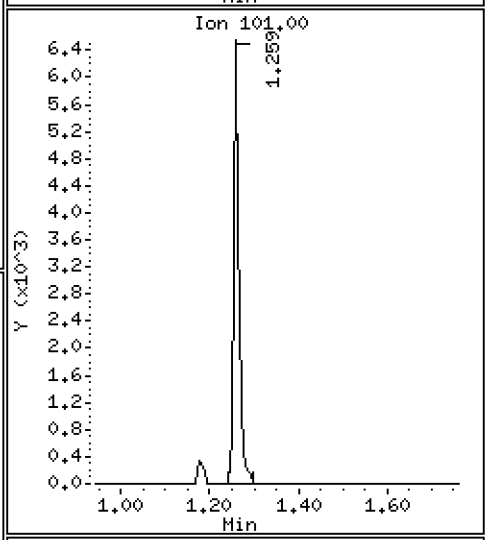


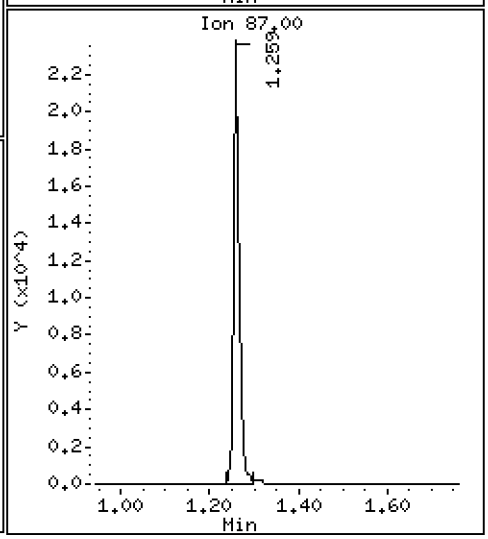












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 10

Date : 25-OCT-2016 00:08

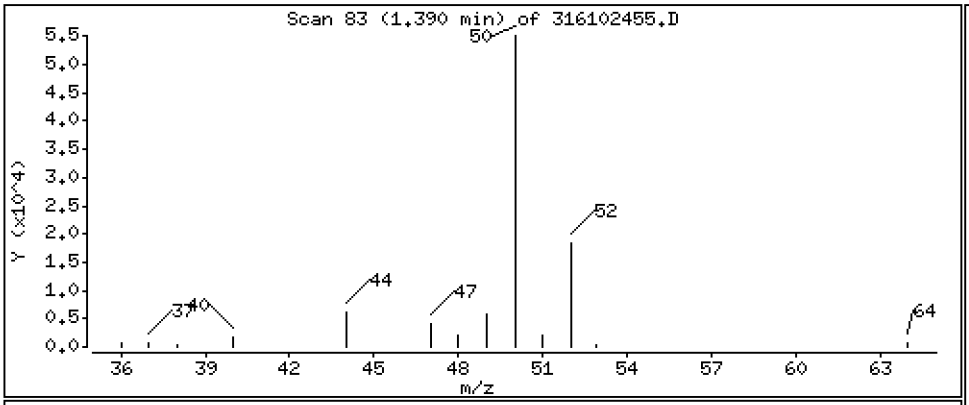
Client ID: Instrument: ms03.i

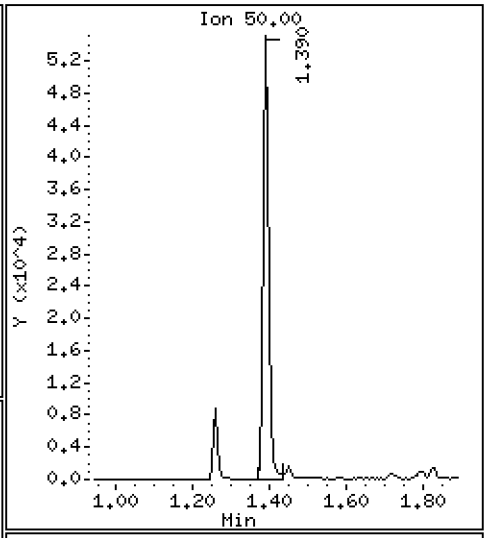
Sample Info: 1235;;1;1;2;;;

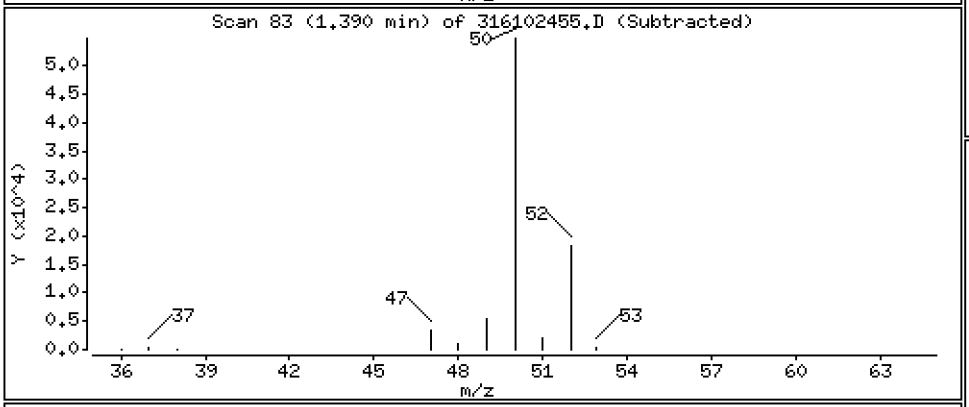
Purge Volume: 5.0 Operator: CJG

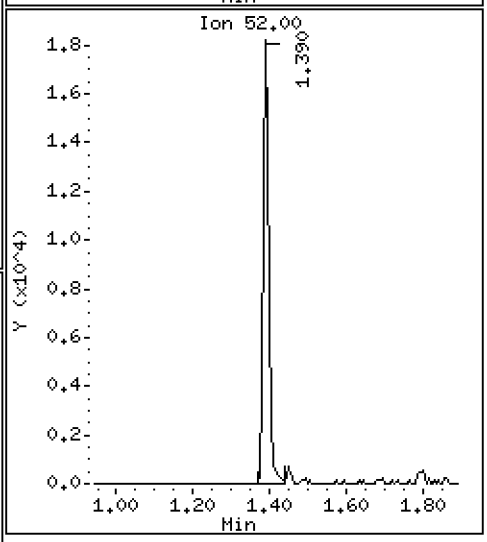
Column phase: DB-VRX Column diameter: 0.25

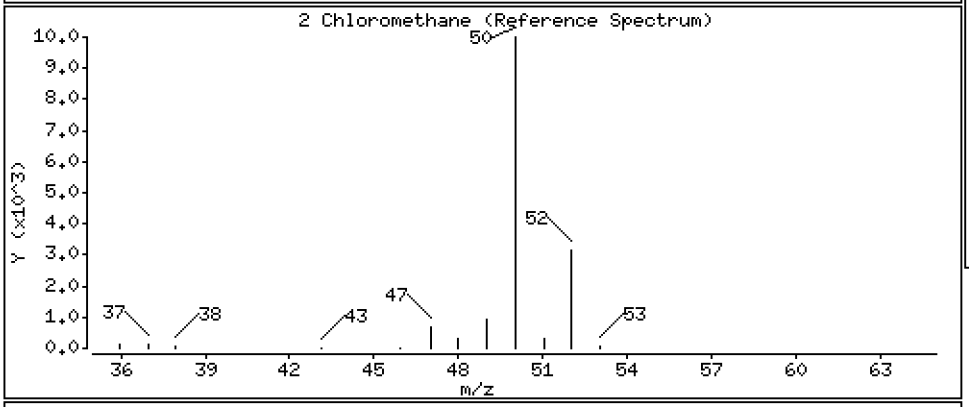
2 Chloromethane Concentration: 5.51749 ug/L

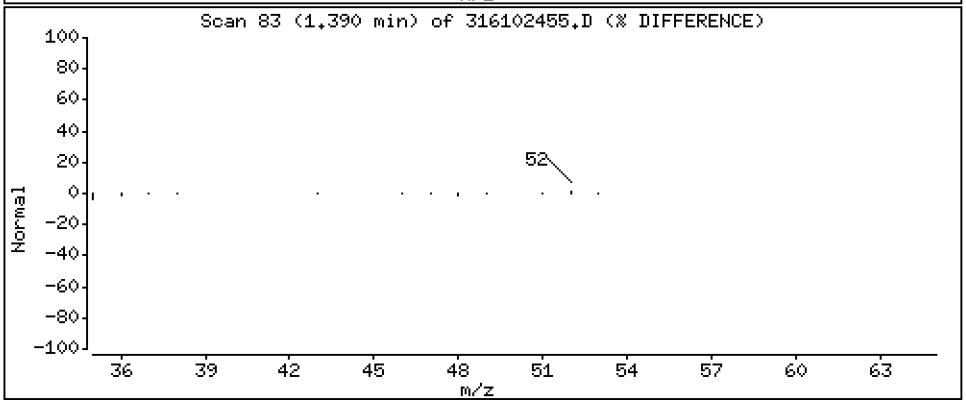












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 11

Date : 25-OCT-2016 00:08

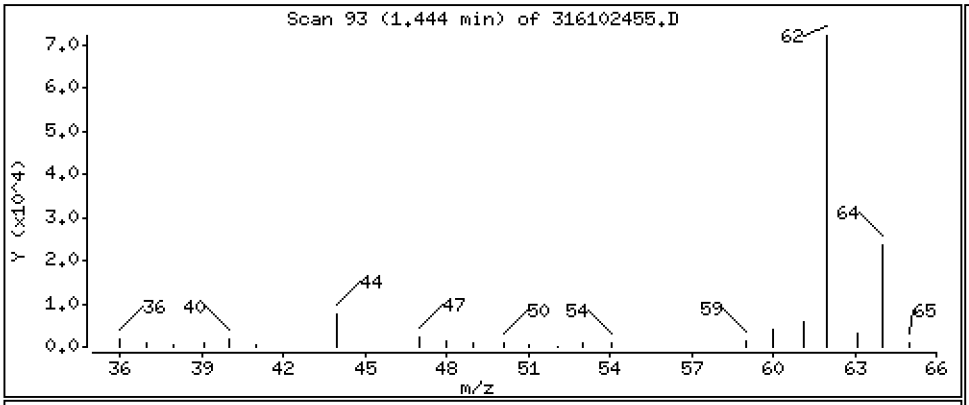
Client ID: Instrument: ms03.i

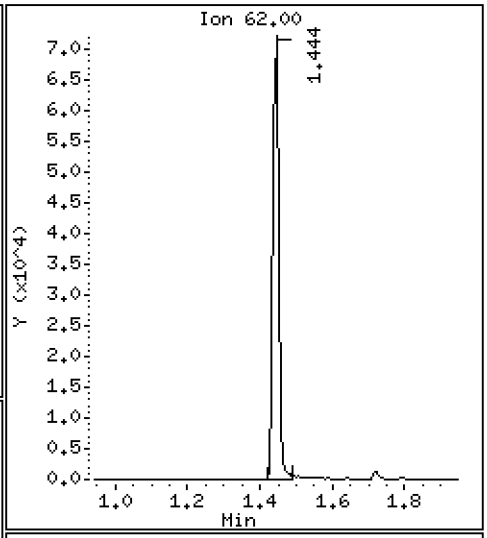
Sample Info: 1235;;1;1;2;;;

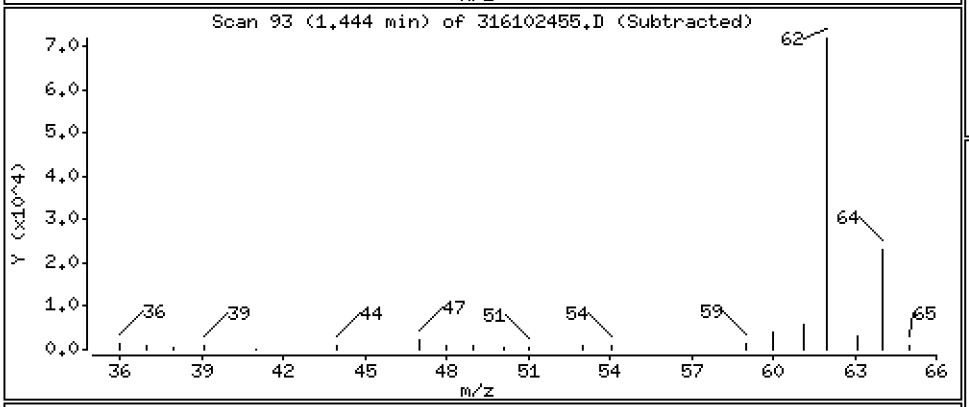
Purge Volume: 5.0 Operator: CJG

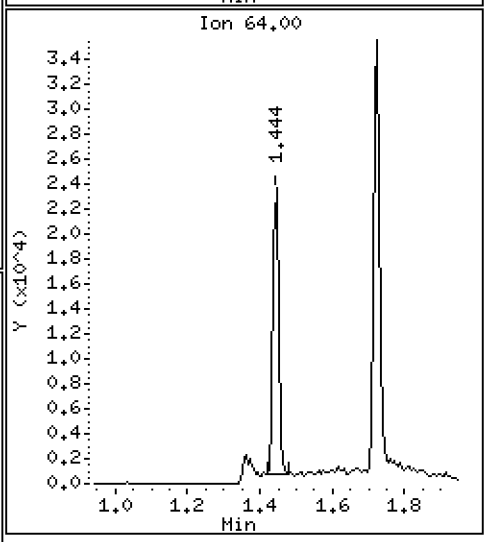
Column phase: DB-VRX Column diameter: 0.25

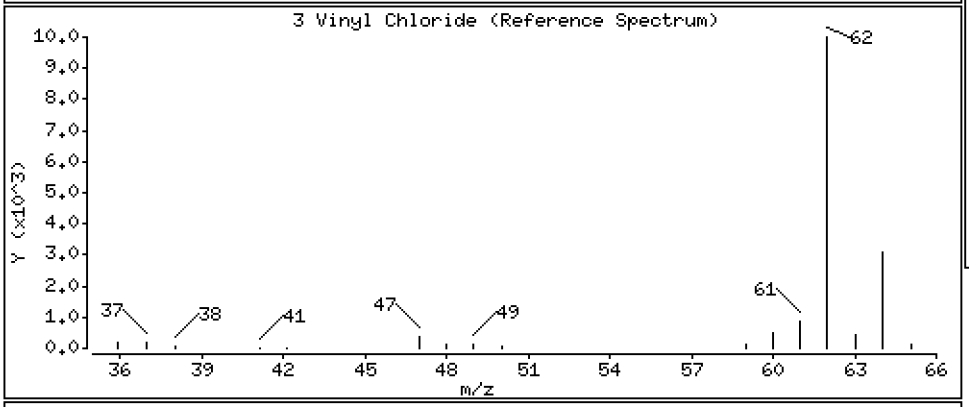
3 Vinyl Chloride Concentration: 5.35999 ug/L

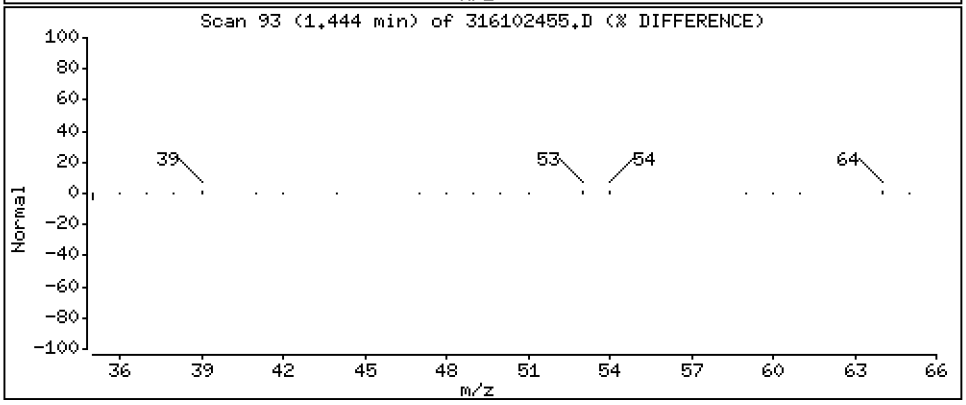












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 12

Date : 25-OCT-2016 00:08

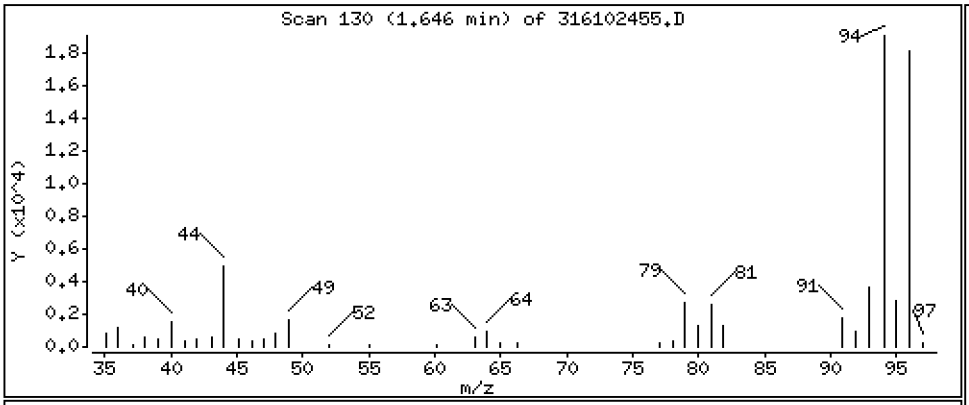
Client ID: Instrument: ms03.i

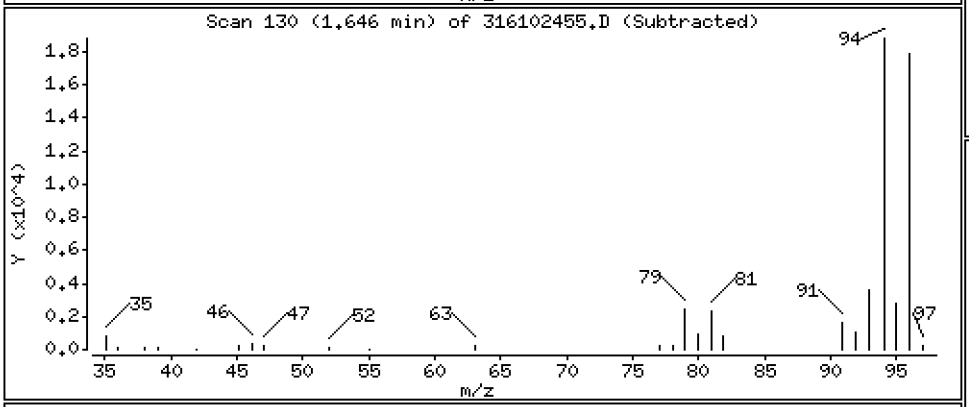
Sample Info: 1235;;1;1;2;;;

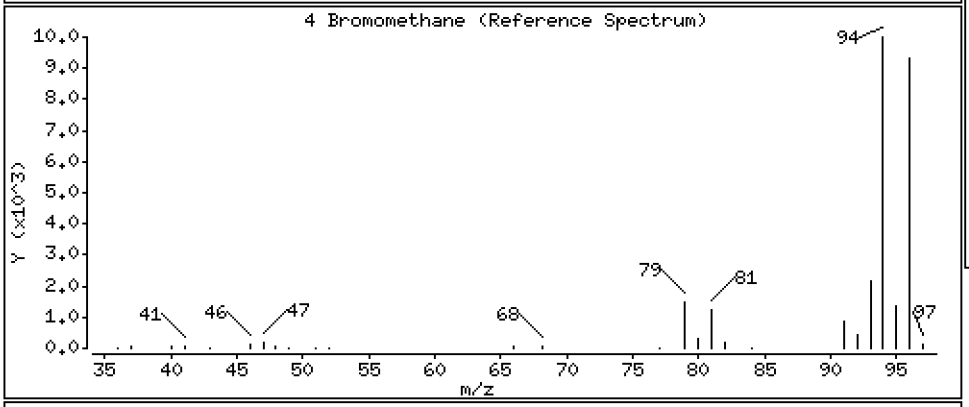
Purge Volume: 5.0 Operator: CJG

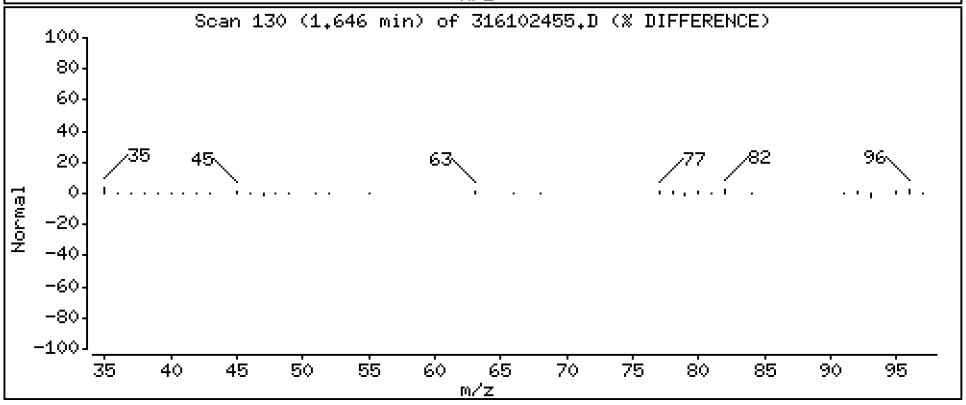
Column phase: DB-VRX Column diameter: 0.25

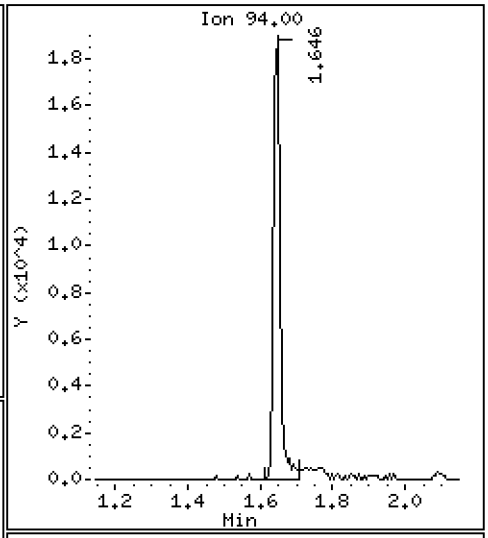
4 Bromomethane Concentration: 5.27260 ug/L

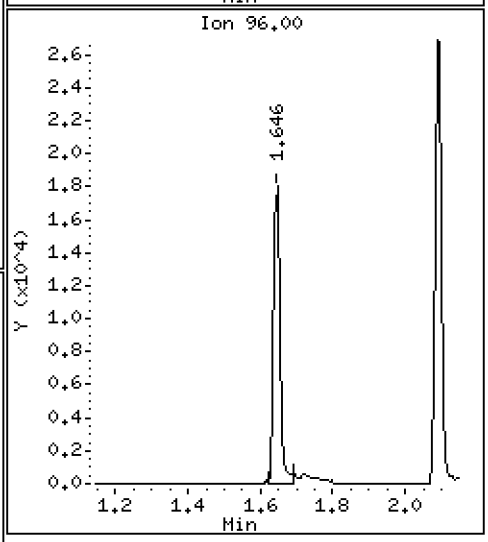












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 13

Date : 25-OCT-2016 00:08

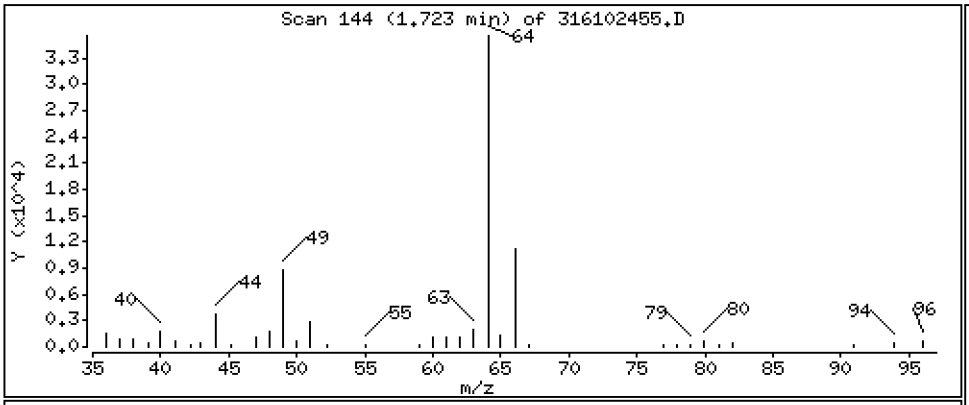
Client ID: Instrument: ms03.i

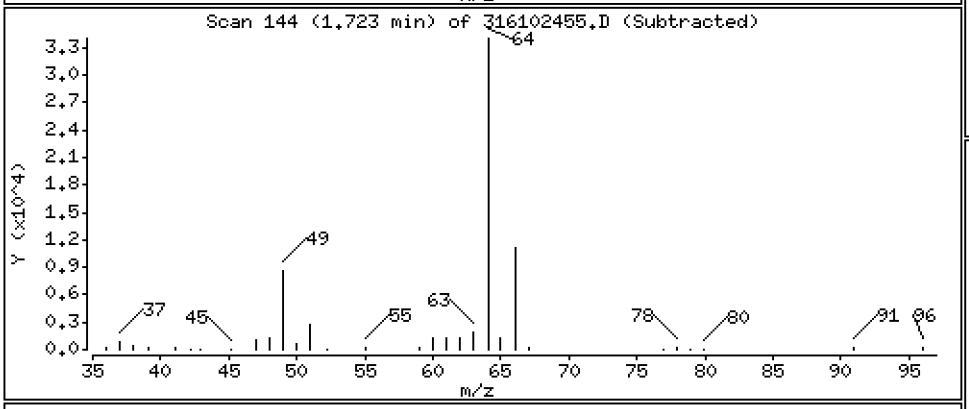
Sample Info: 1235;;1;1;2;;;

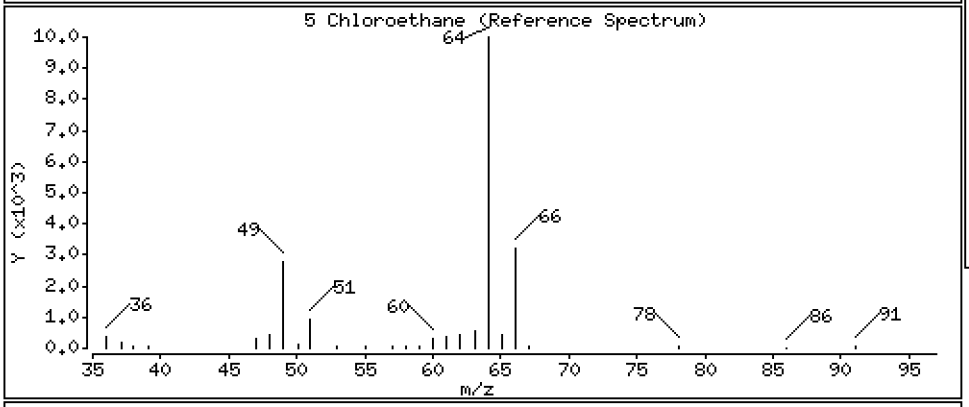
Purge Volume: 5.0 Operator: CJG

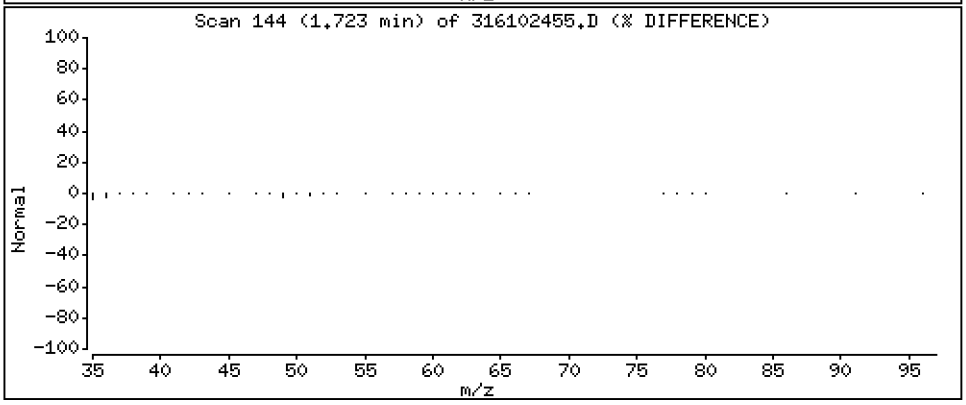
Column phase: DB-VRX Column diameter: 0.25

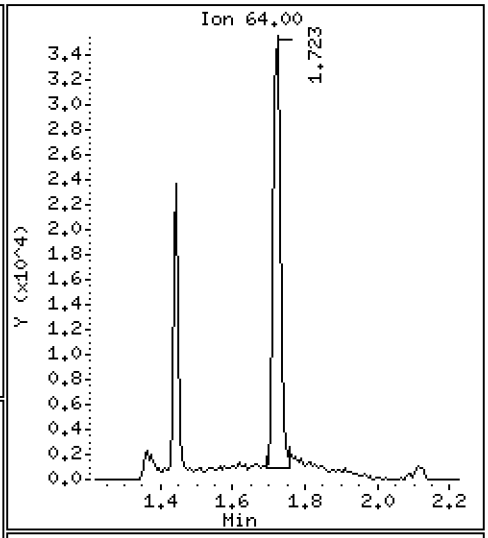
5 Chloroethane Concentration: 5.51071 ug/L

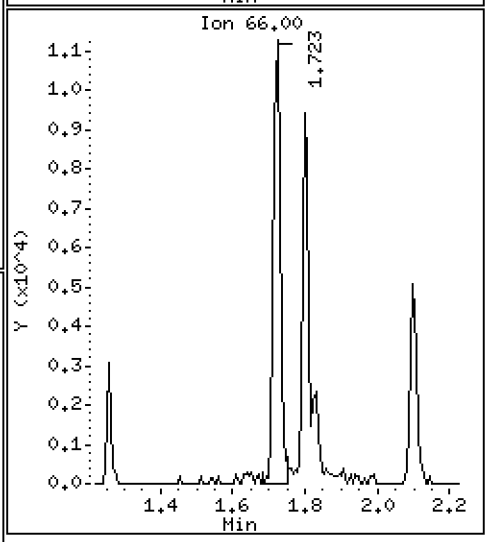












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 14

Date : 25-OCT-2016 00:08

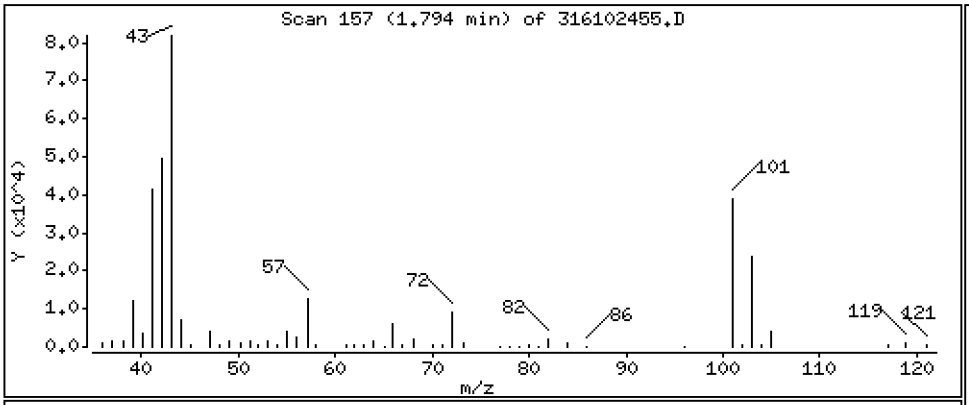
Client ID: Instrument: ms03.i

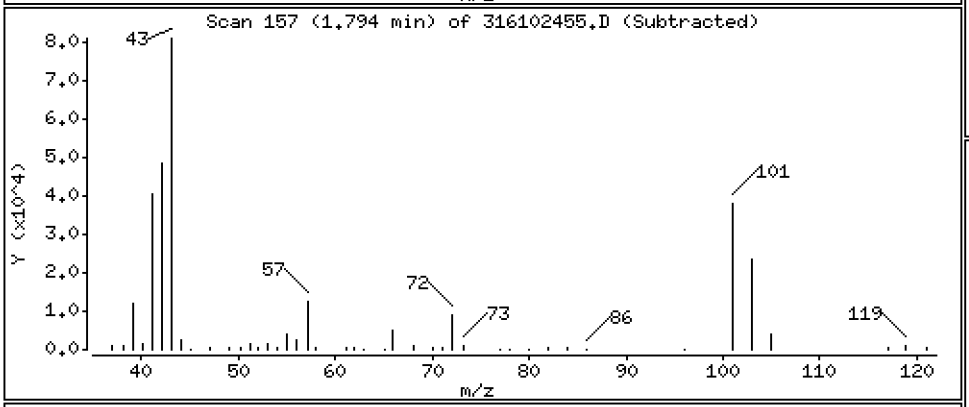
Sample Info: 1235;;1;1;2;;;

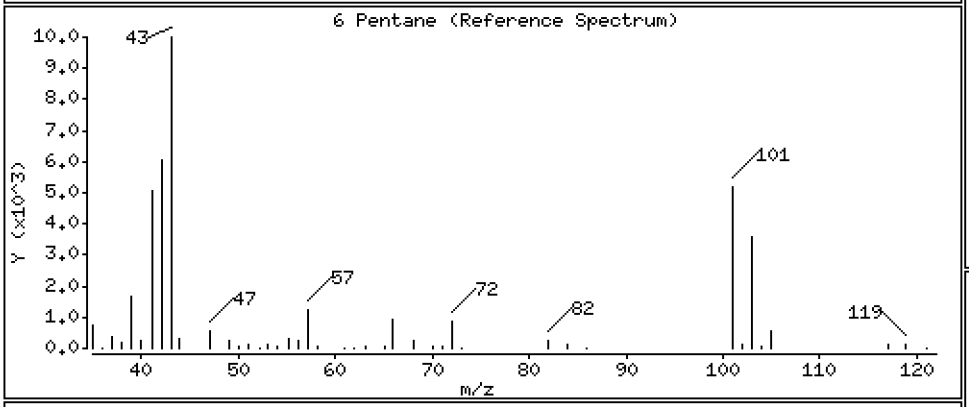
Purge Volume: 5.0 Operator: CJG

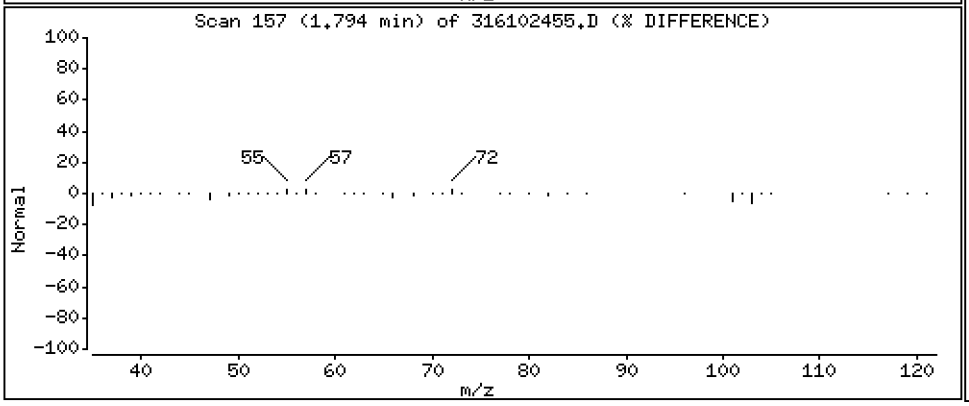
Column phase: DB-VRX Column diameter: 0.25

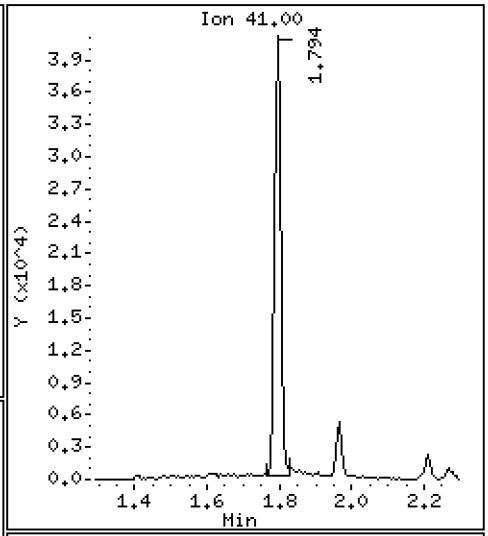
6 Pentane Concentration: 6.42848 ug/L

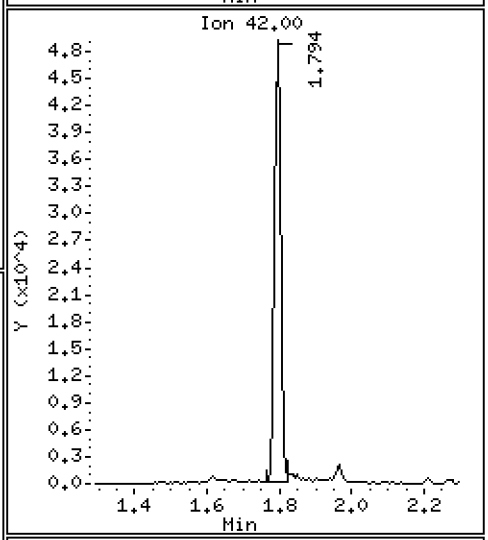


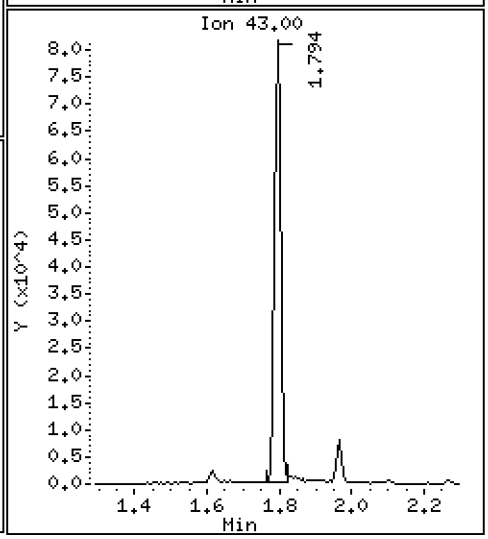












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 15

Date : 25-OCT-2016 00:08

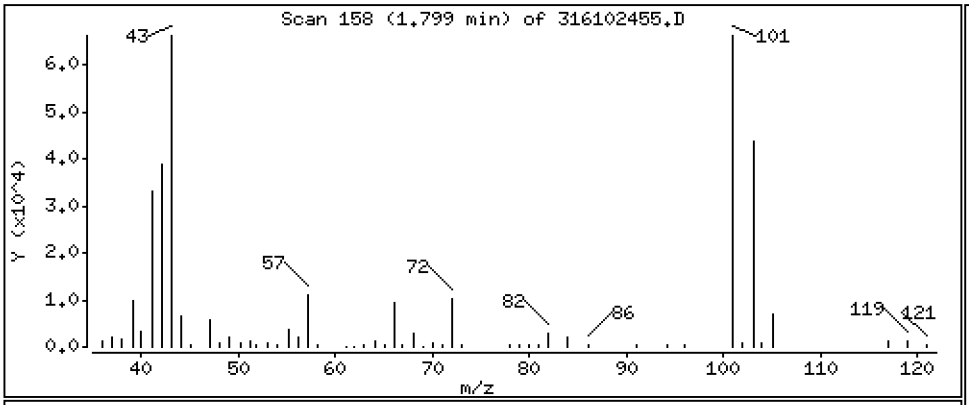
Client ID: Instrument: ms03.i

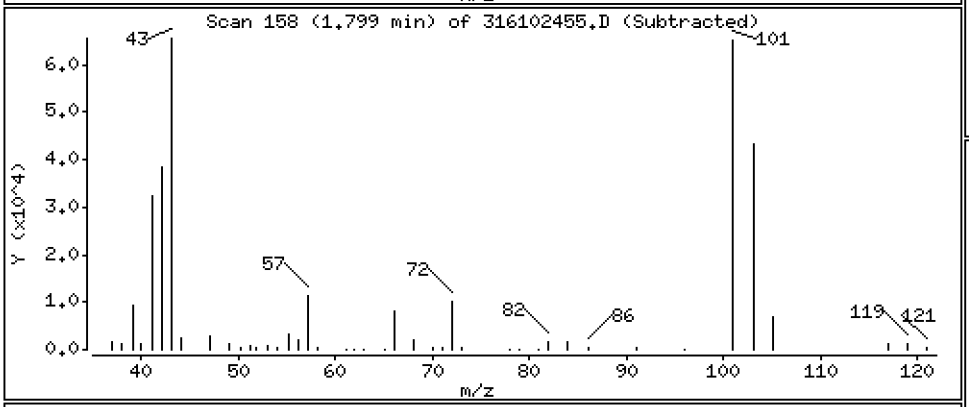
Sample Info: 1235;;1;1;2;;;

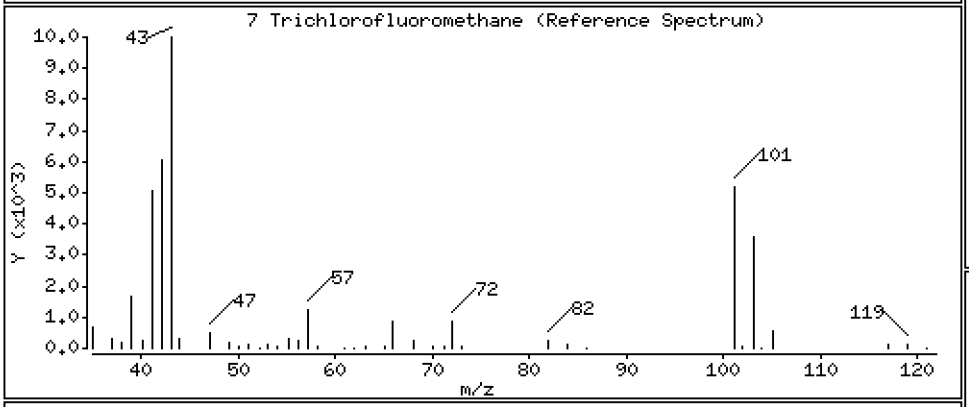
Purge Volume: 5.0 Operator: CJG

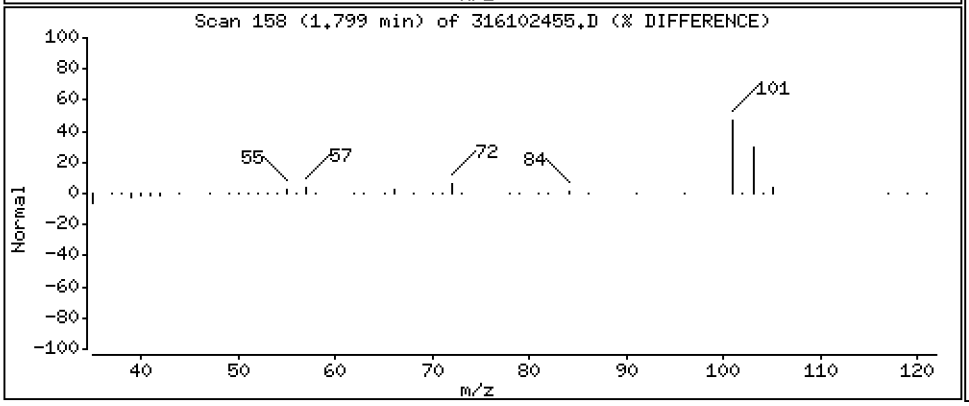
Column phase: DB-VRX Column diameter: 0.25

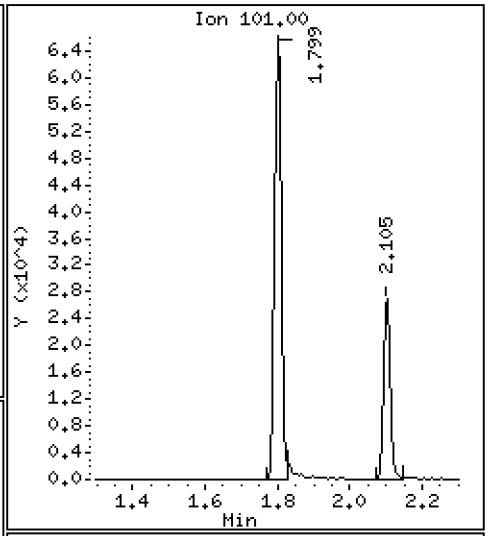
7 Trichlorofluoromethane Concentration: 5.83139 ug/L

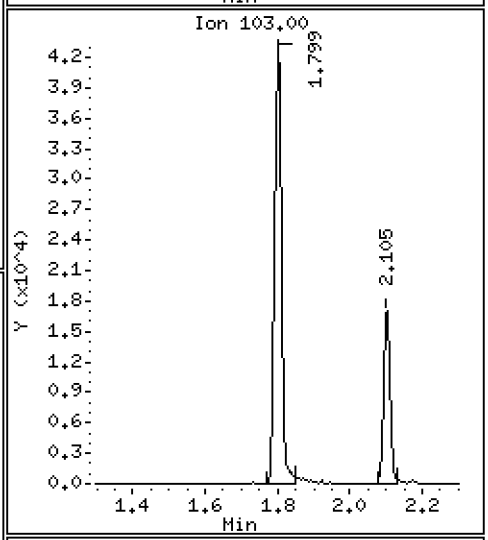


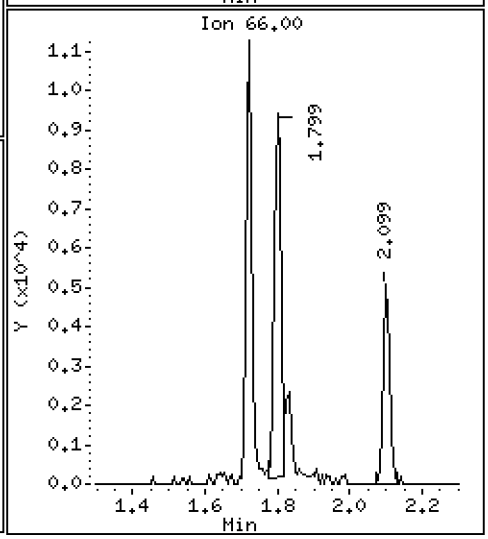












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 16

Date : 25-OCT-2016 00:08

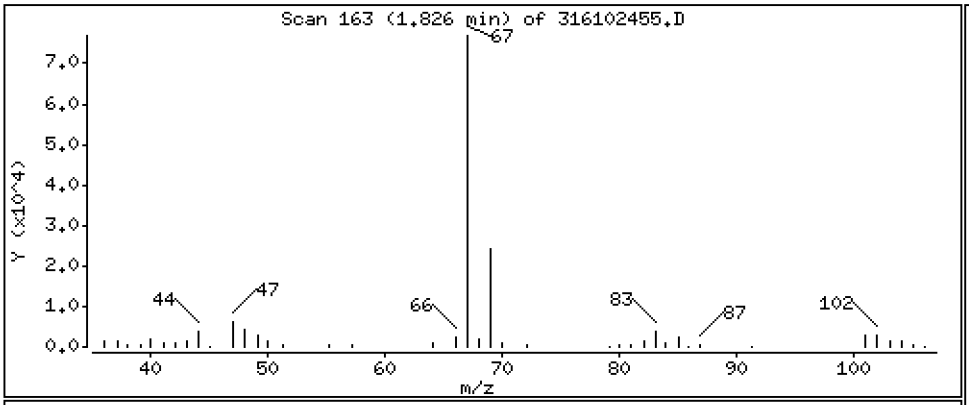
Client ID: Instrument: ms03.i

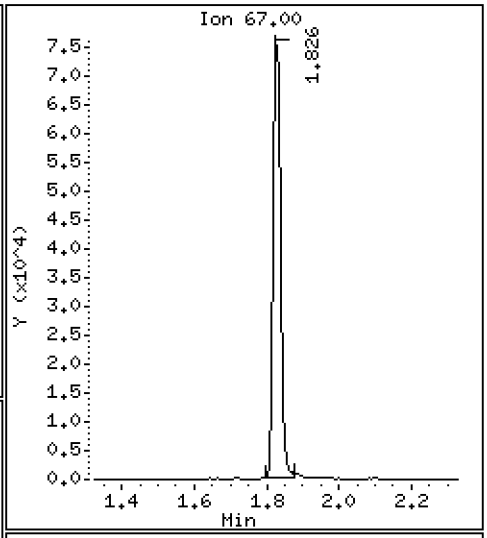
Sample Info: 1235;;1;1;2;;;

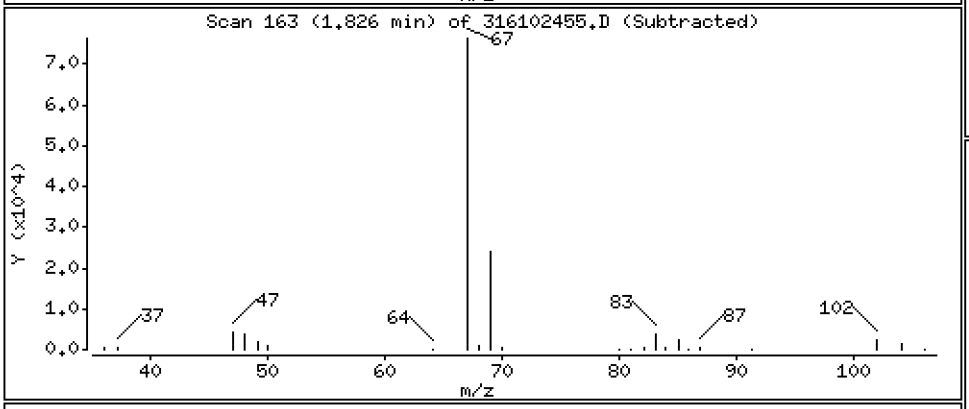
Purge Volume: 5.0 Operator: CJG

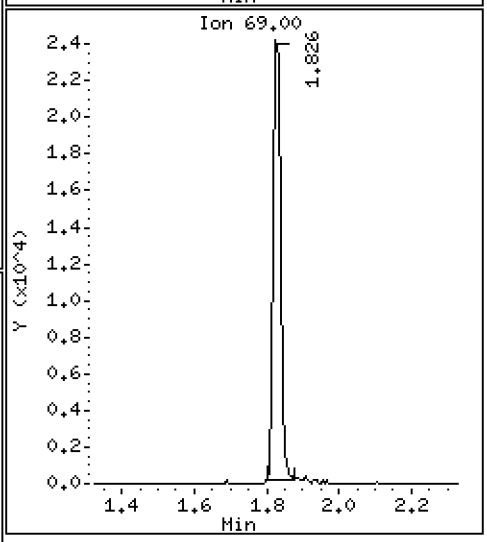
Column phase: DB-VRX Column diameter: 0.25

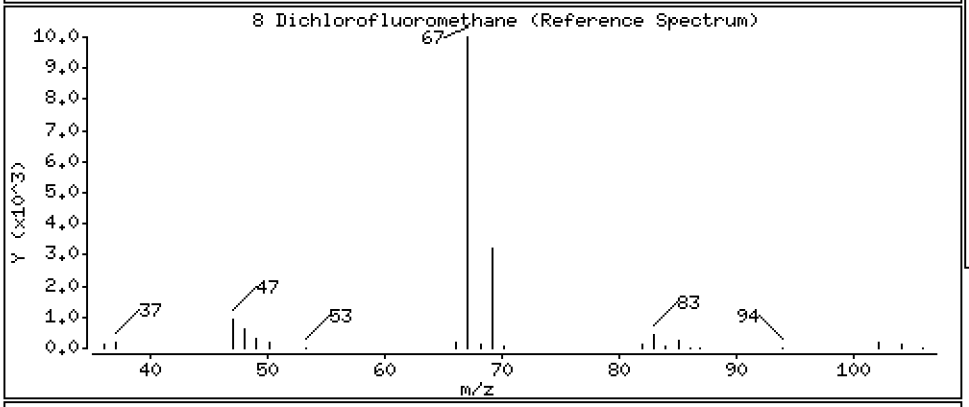
8 Dichlorofluoromethane Concentration: 5.55616 ug/L

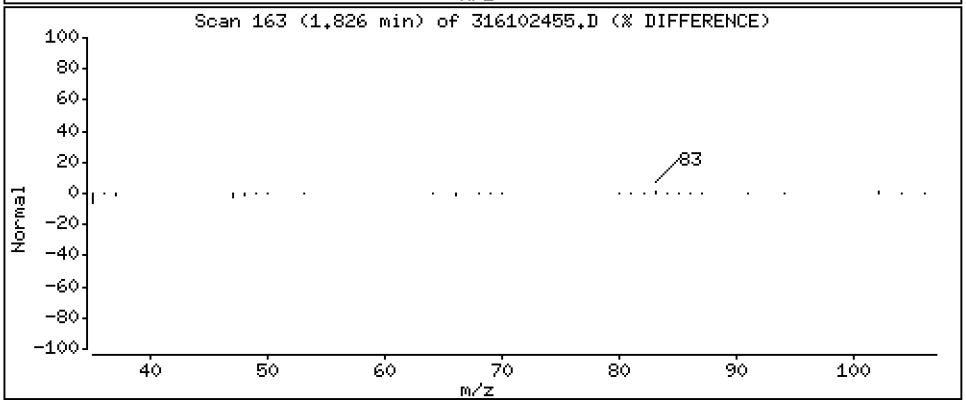












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 17

Date : 25-OCT-2016 00:08

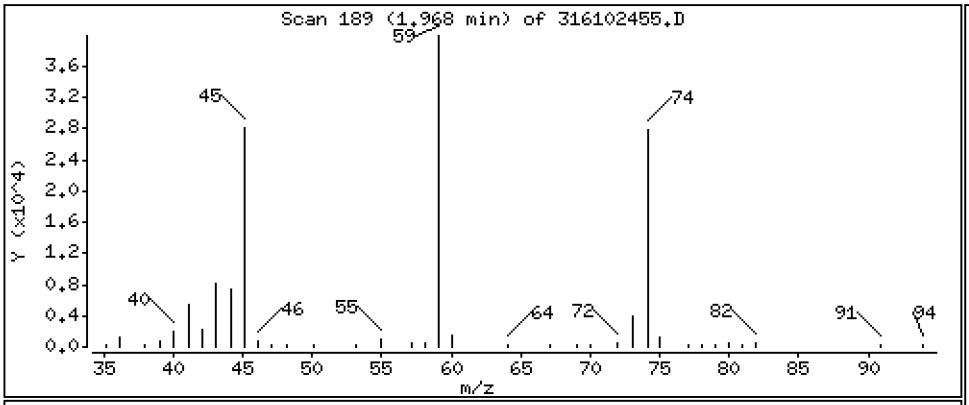
Client ID: Instrument: ms03.i

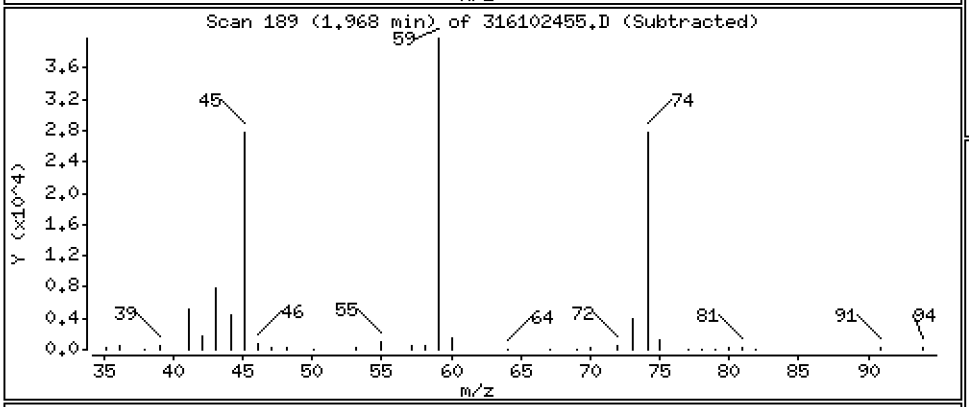
Sample Info: 1235;;1;1;2;;;

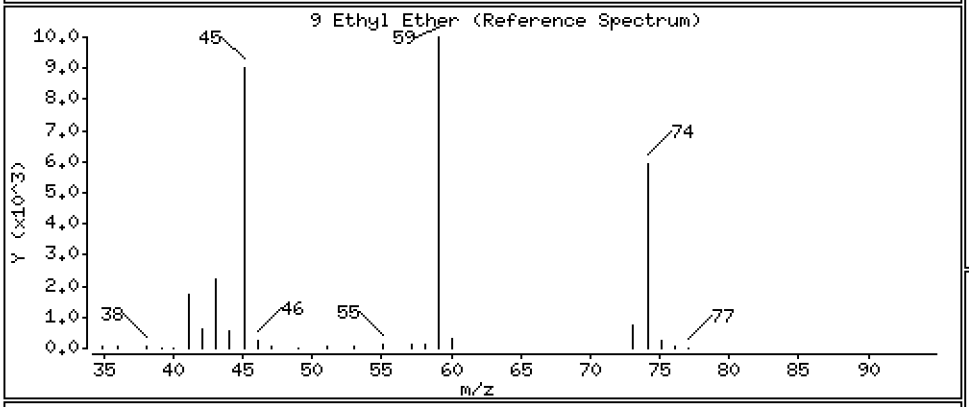
Purge Volume: 5.0 Operator: CJG

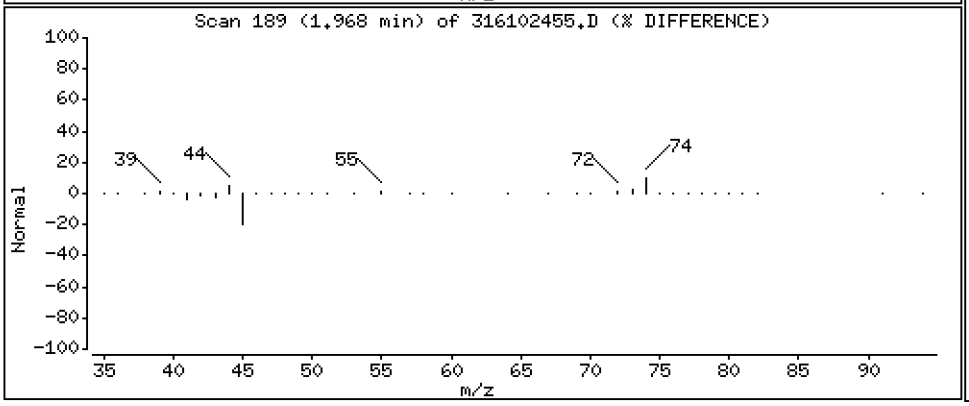
Column phase: DB-VRX Column diameter: 0.25

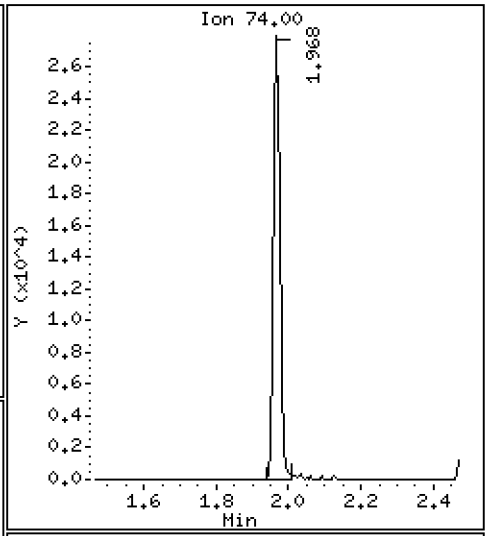
9 Ethyl Ether Concentration: 5.53817 ug/L

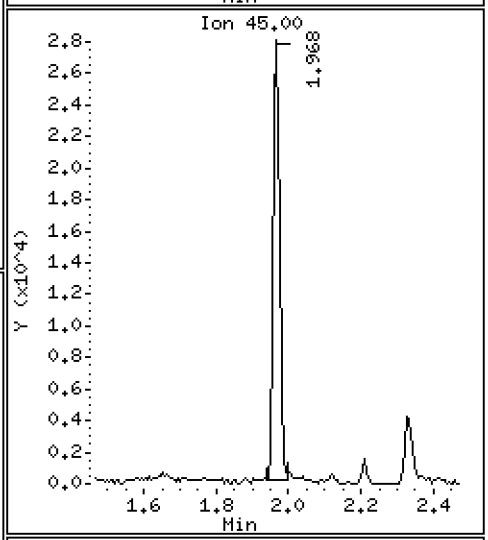


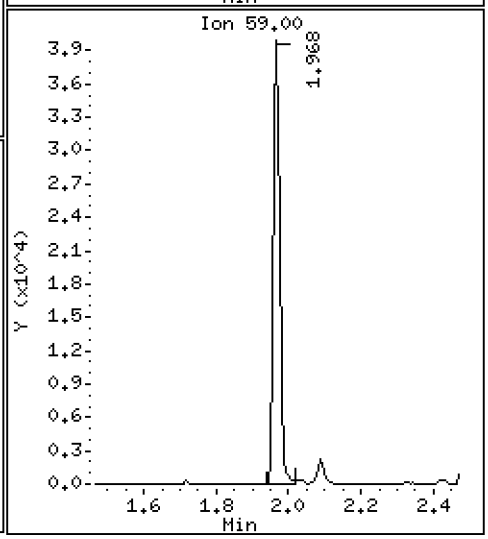












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 18

Date : 25-OCT-2016 00:08

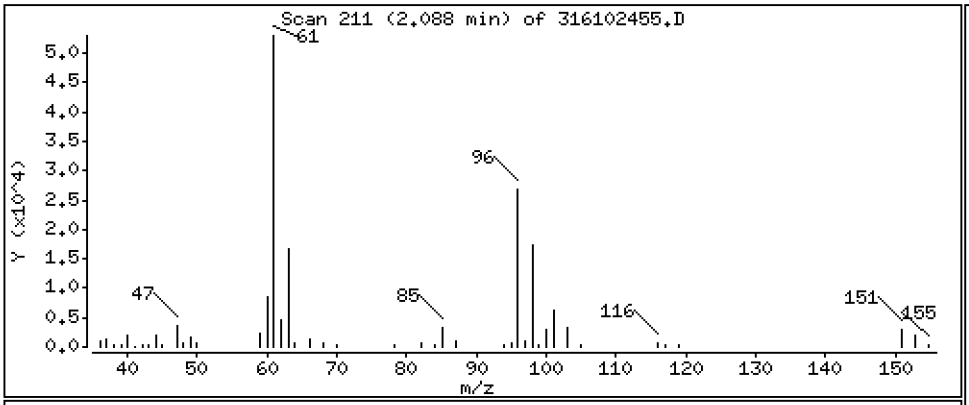
Client ID: Instrument: ms03.i

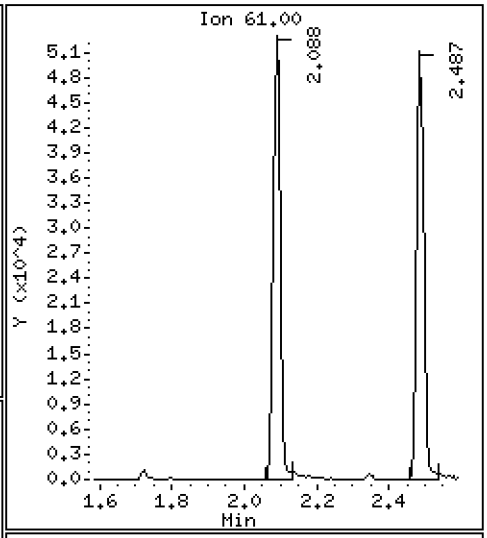
Sample Info: 1235;;1;1;2;;;

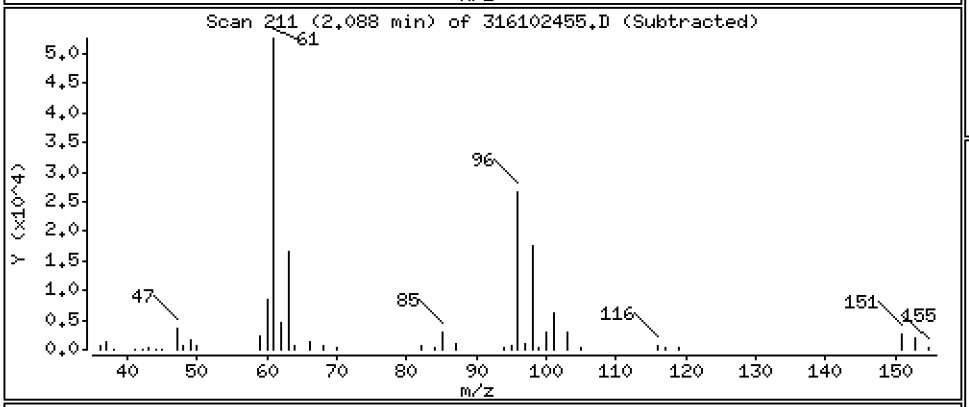
Purge Volume: 5.0 Operator: CJG

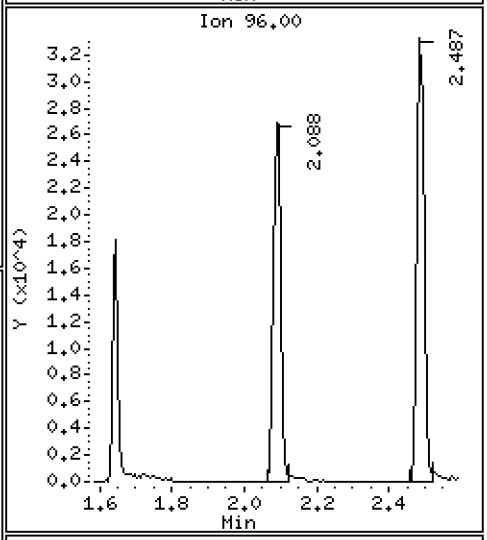
Column phase: DB-VRX Column diameter: 0.25

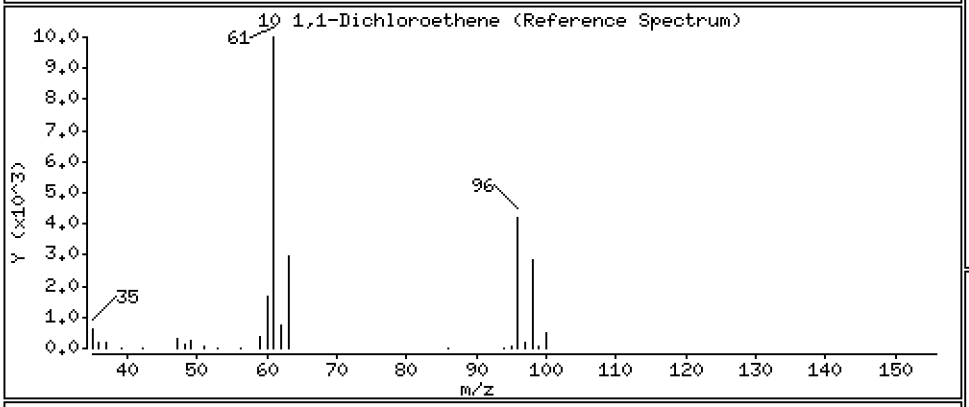
10 1,1-Dichloroethene Concentration: 5.43008 ug/L

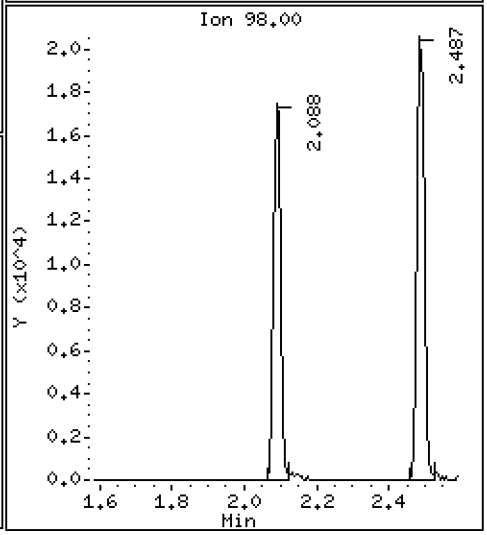


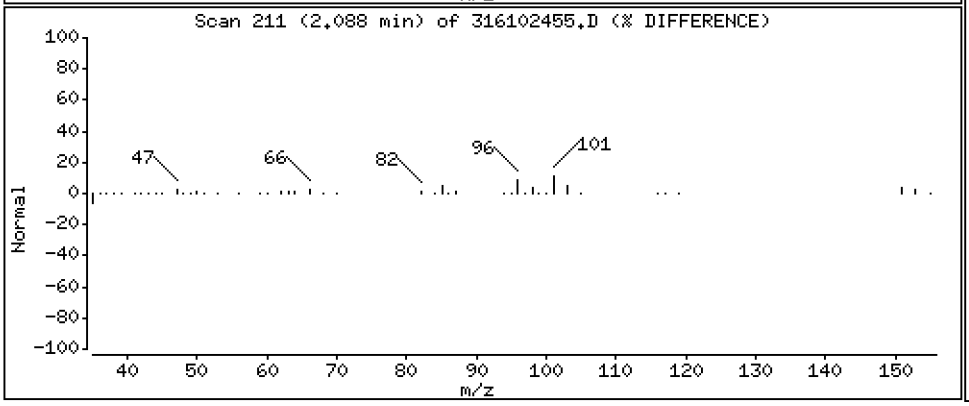












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 19

Date : 25-OCT-2016 00:08

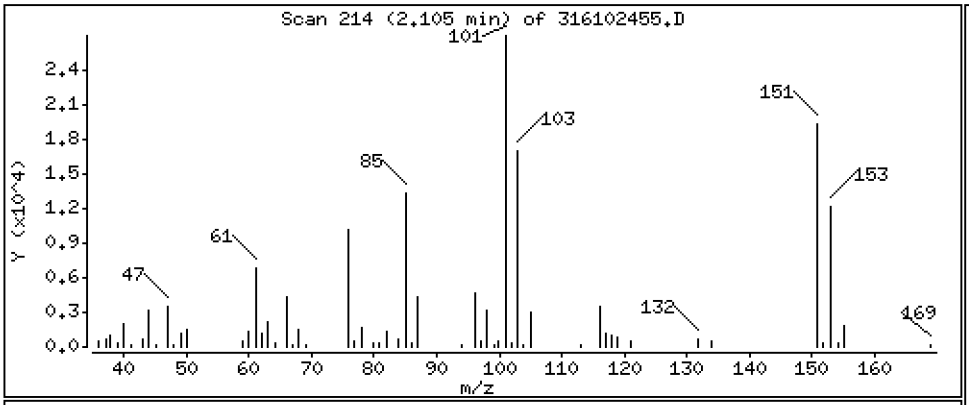
Client ID: Instrument: ms03.i

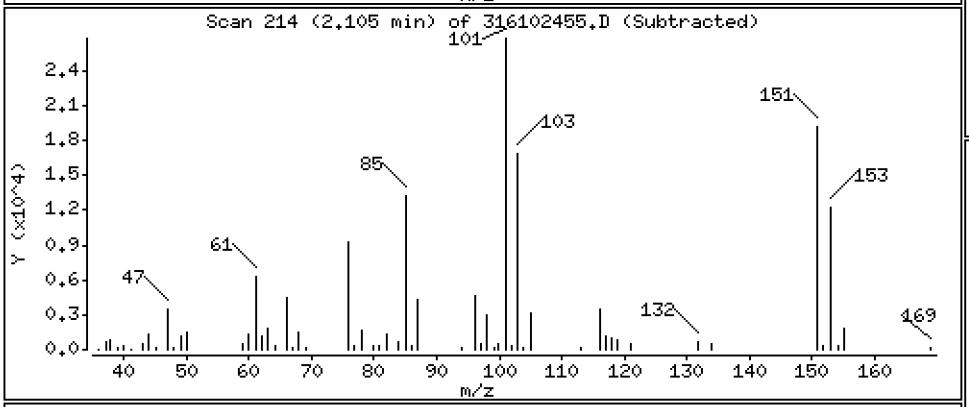
Sample Info: 1235;;1;1;2;;;

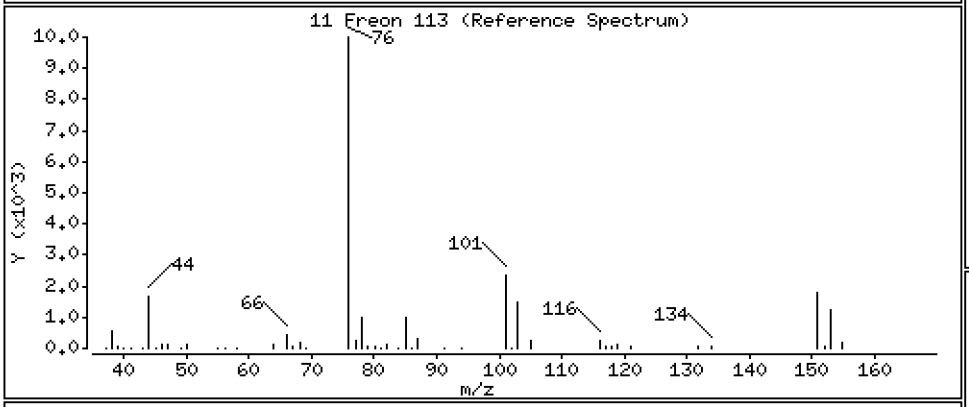
Purge Volume: 5.0 Operator: CJG

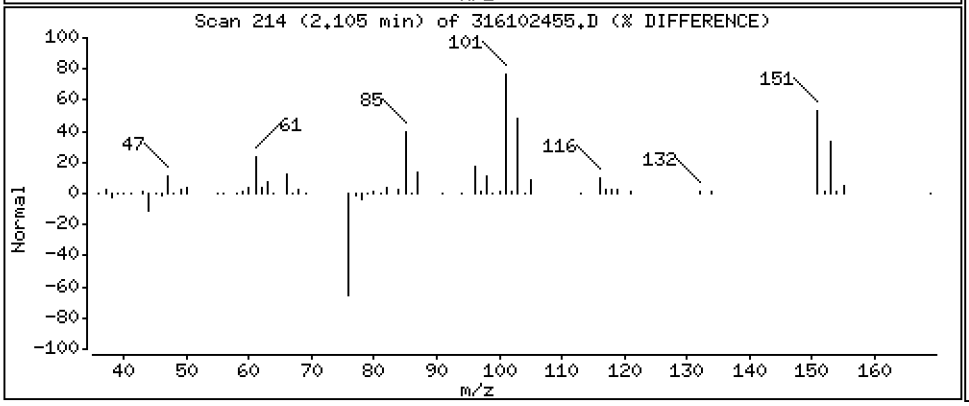
Column phase: DB-VRX Column diameter: 0.25

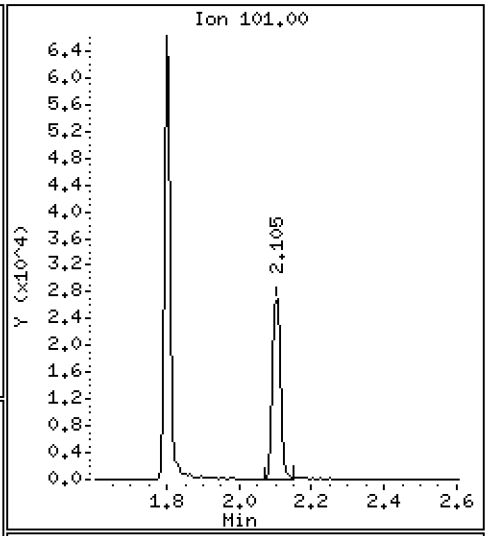
11 Freon 113 Concentration: 6.10634 ug/L

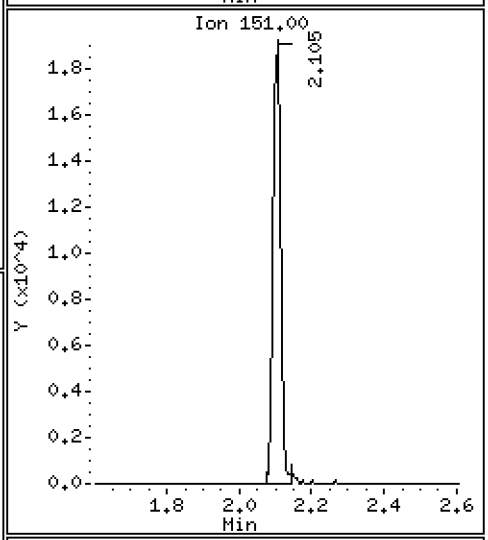


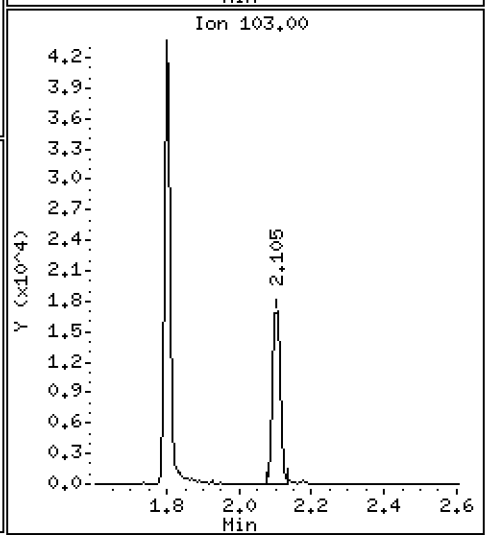












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 20

Date : 25-OCT-2016 00:08

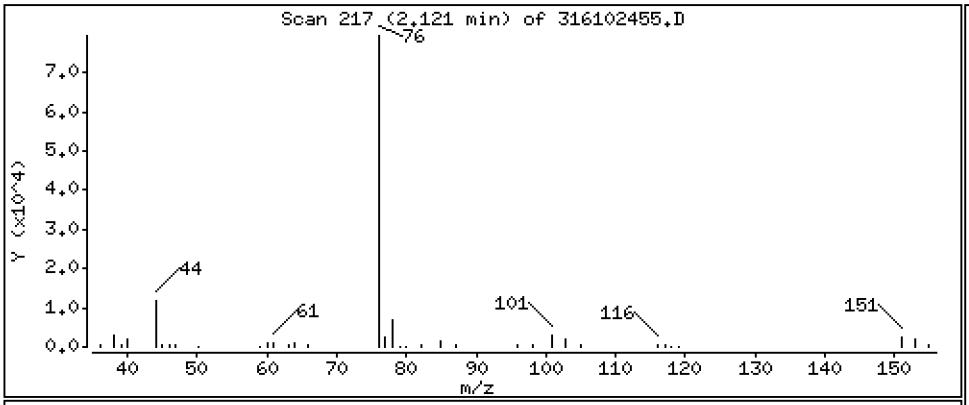
Client ID: Instrument: ms03.i

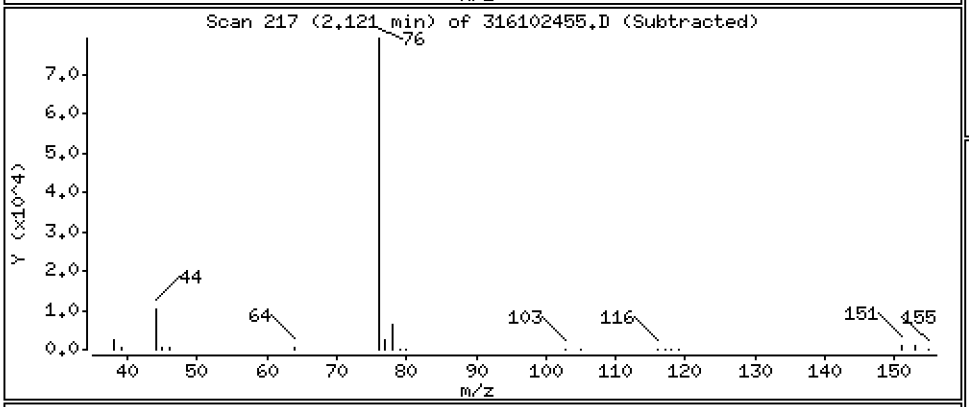
Sample Info: 1235;;1;1;2;;;

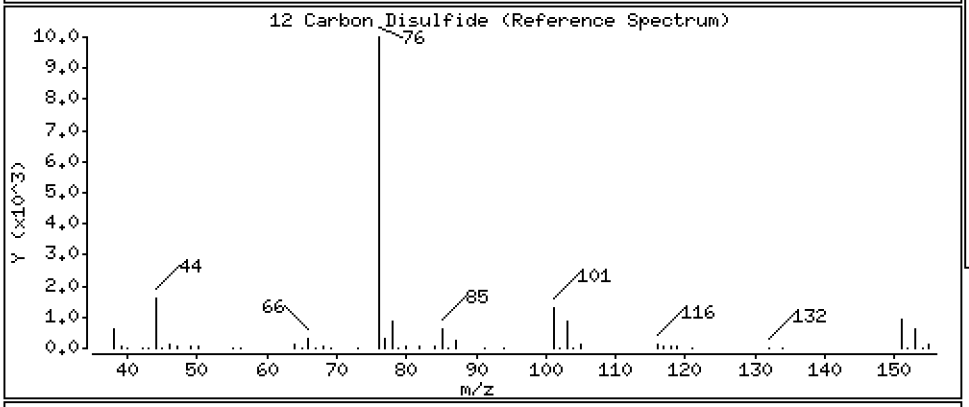
Purge Volume: 5.0 Operator: CJG

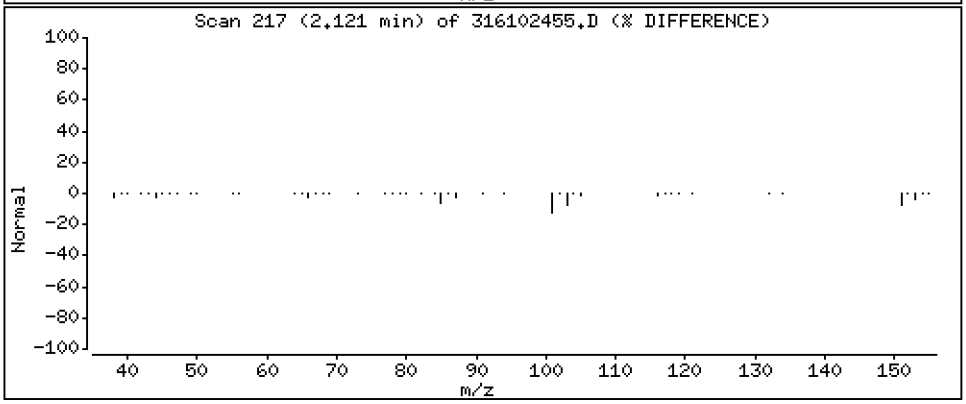
Column phase: DB-VRX Column diameter: 0.25

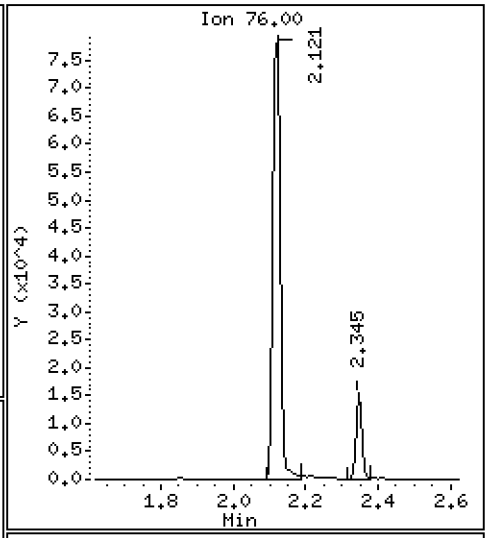
12 Carbon Disulfide Concentration: 4.73689 ug/L

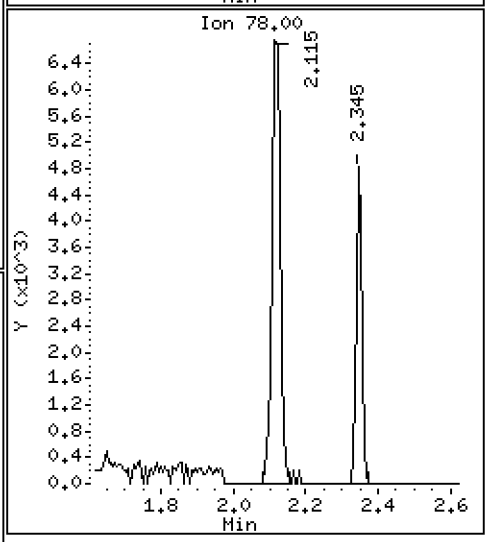












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 21

Date : 25-OCT-2016 00:08

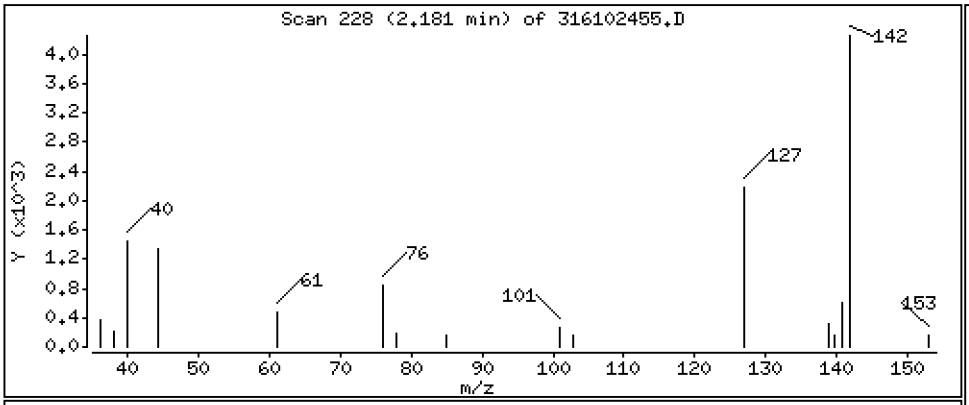
Client ID: Instrument: ms03.i

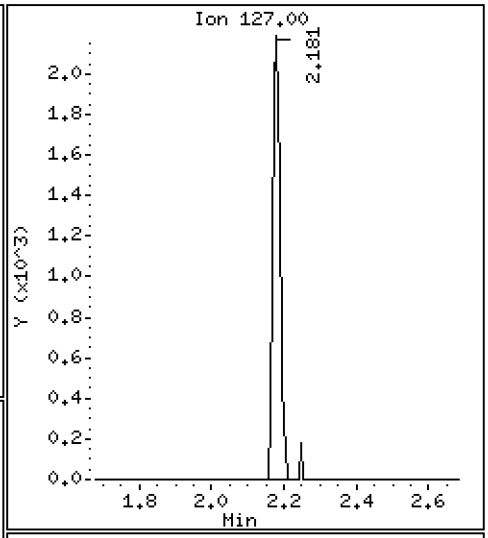
Sample Info: 1235;;1;1;2;;;

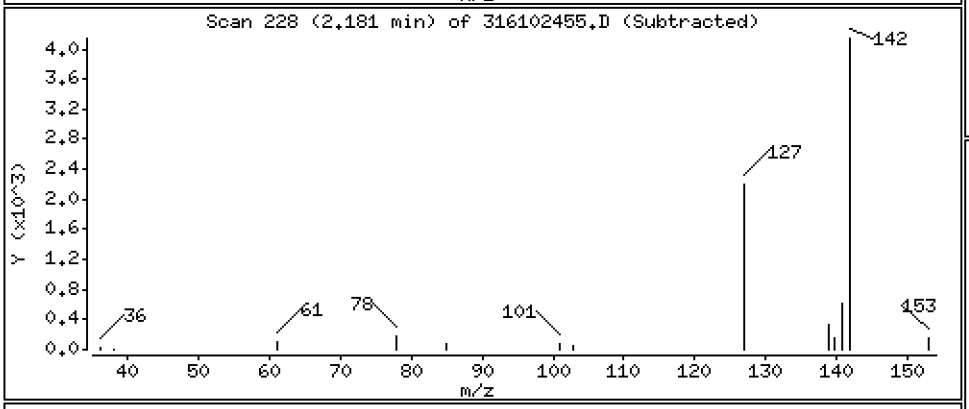
Purge Volume: 5.0 Operator: CJG

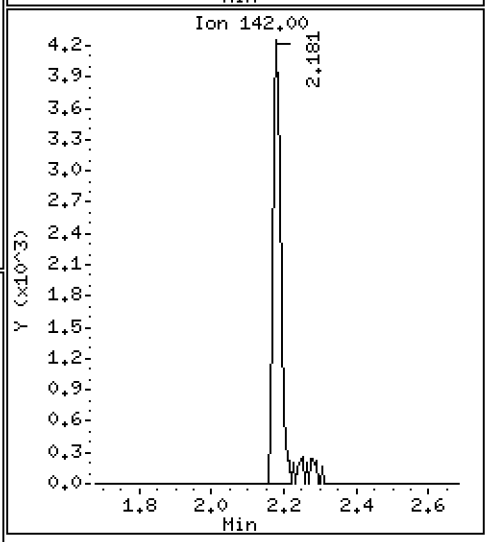
Column phase: DB-VRX Column diameter: 0.25

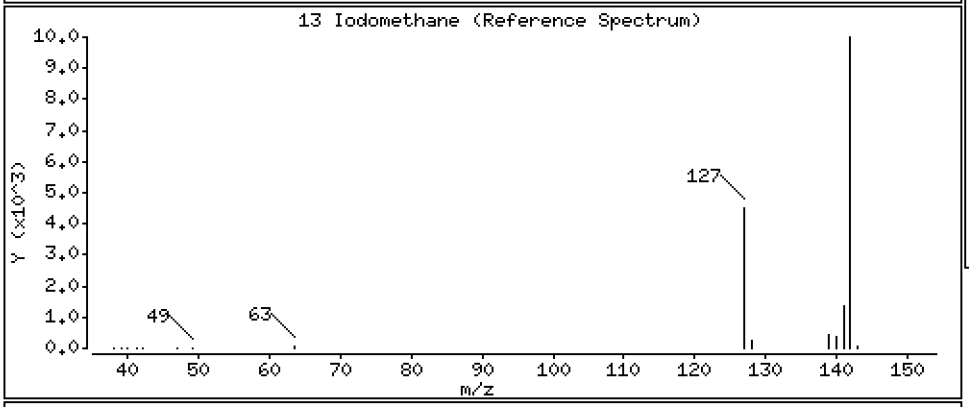
13 Iodomethane Concentration: 4.71317 ug/L

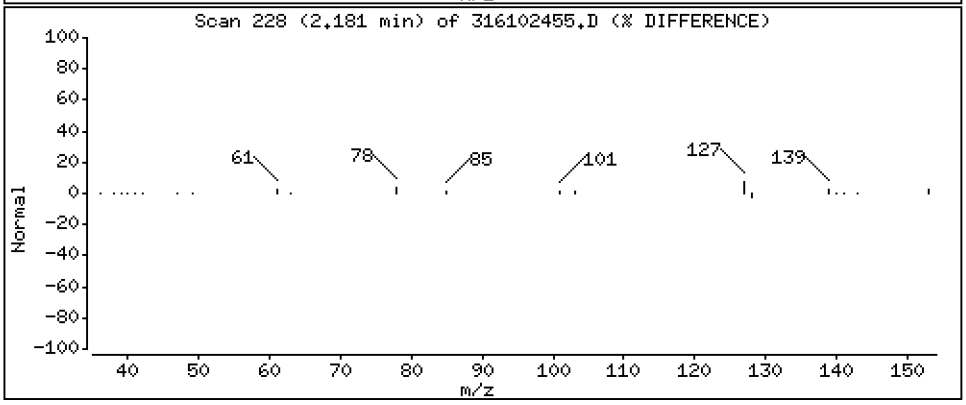












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 22

Date : 25-OCT-2016 00:08

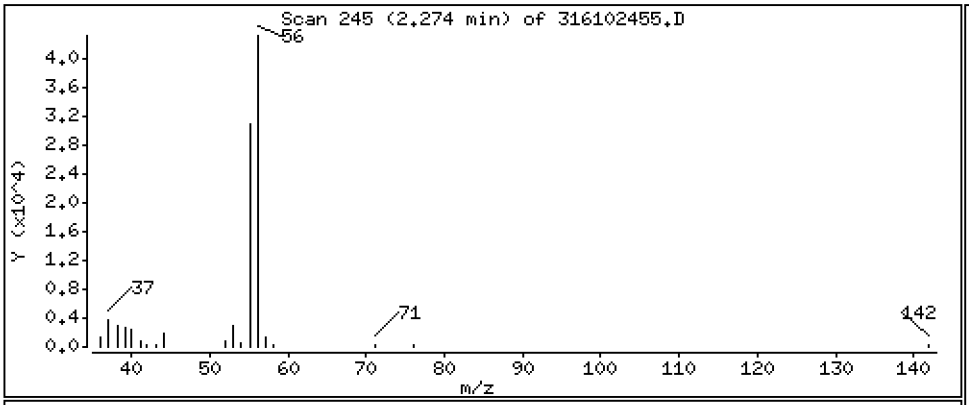
Client ID: Instrument: ms03.i

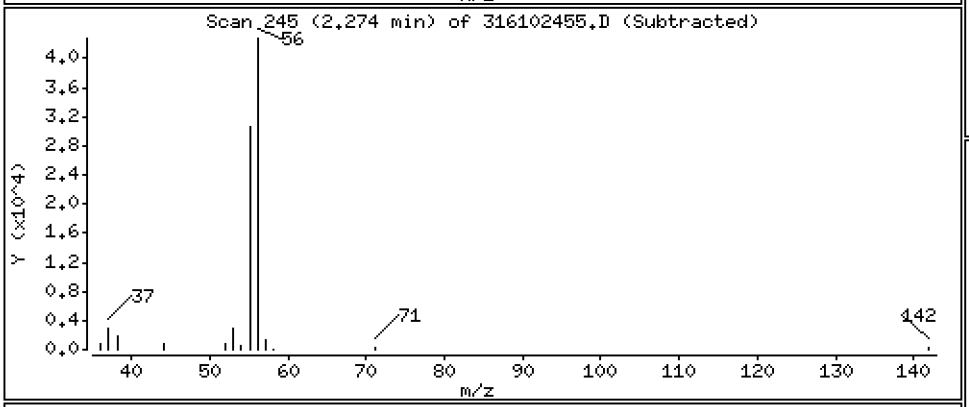
Sample Info: 1235;;1;1;2;;;

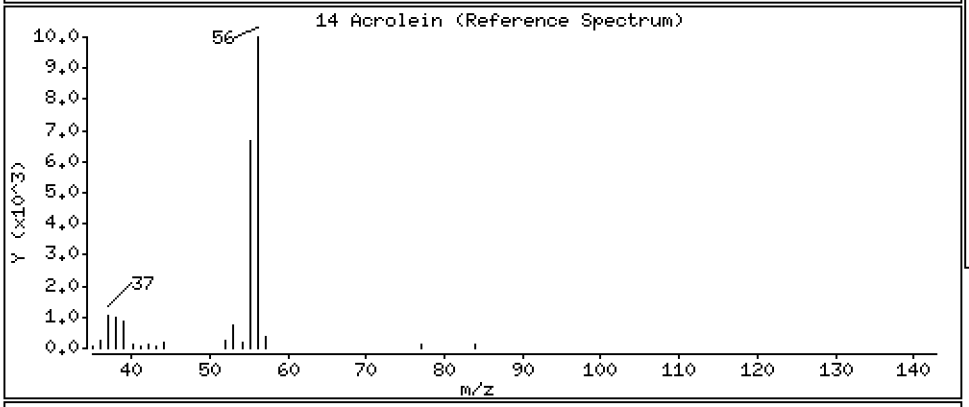
Purge Volume: 5.0 Operator: CJG

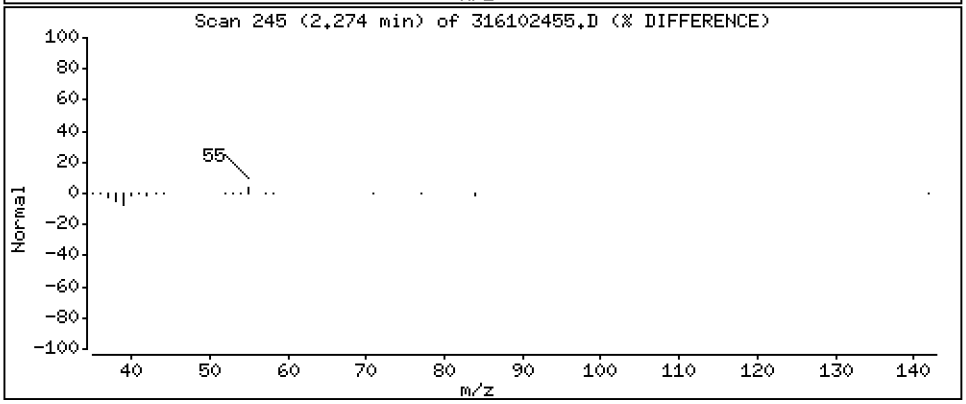
Column phase: DB-VRX Column diameter: 0.25

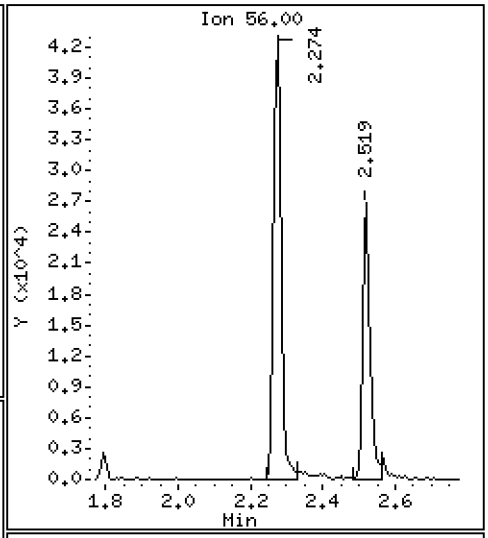
14 Acrolein Concentration: 48.4025 ug/L

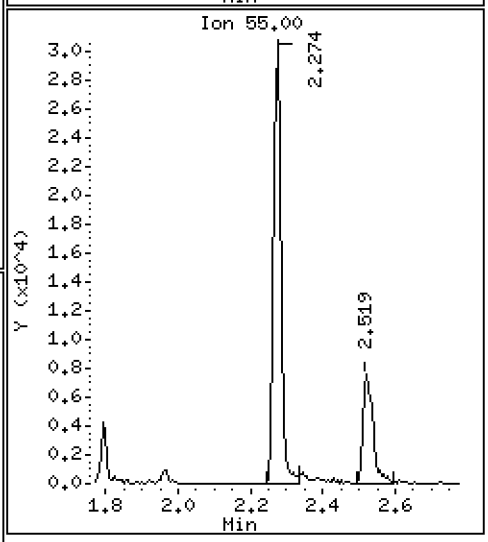












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 23

Date : 25-OCT-2016 00:08

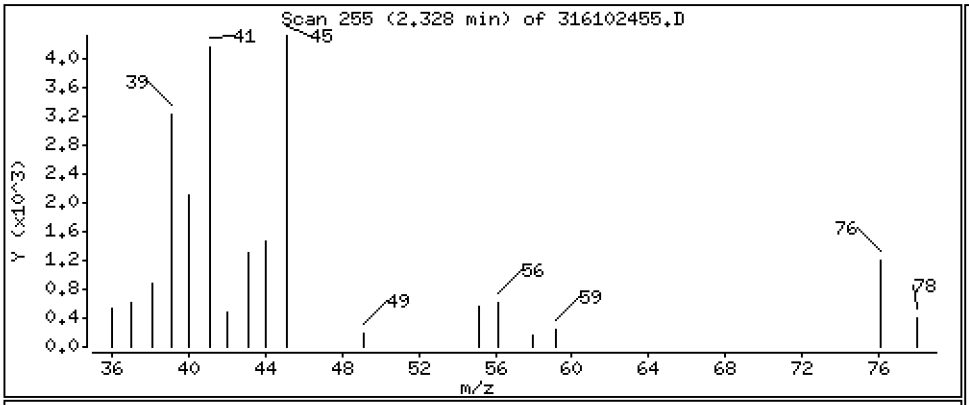
Client ID: Instrument: ms03.i

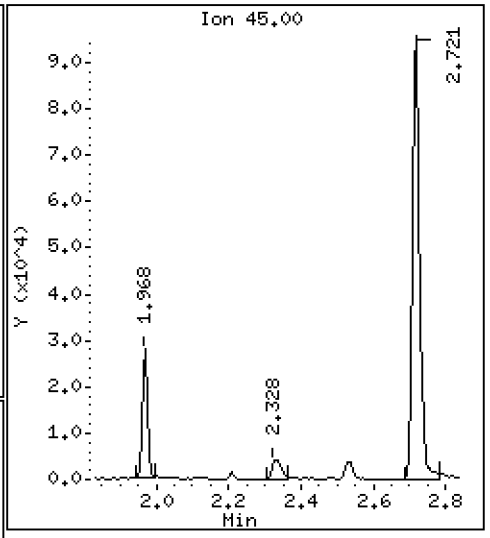
Sample Info: 1235;;1;1;2;;;

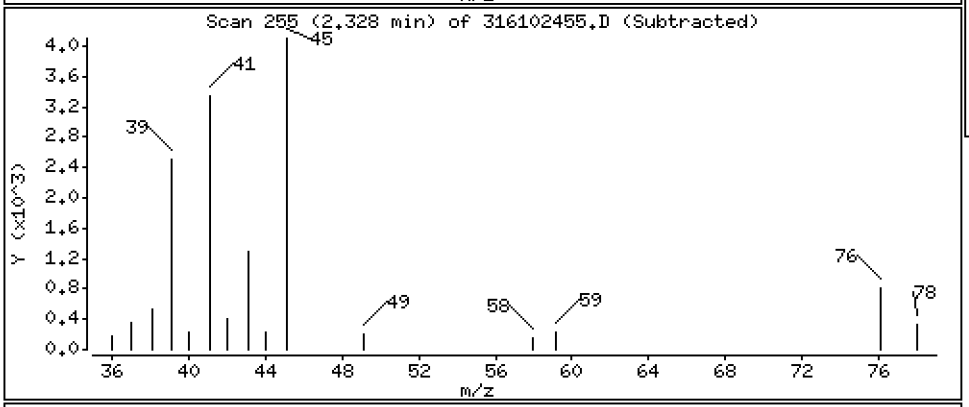
Purge Volume: 5.0 Operator: CJG

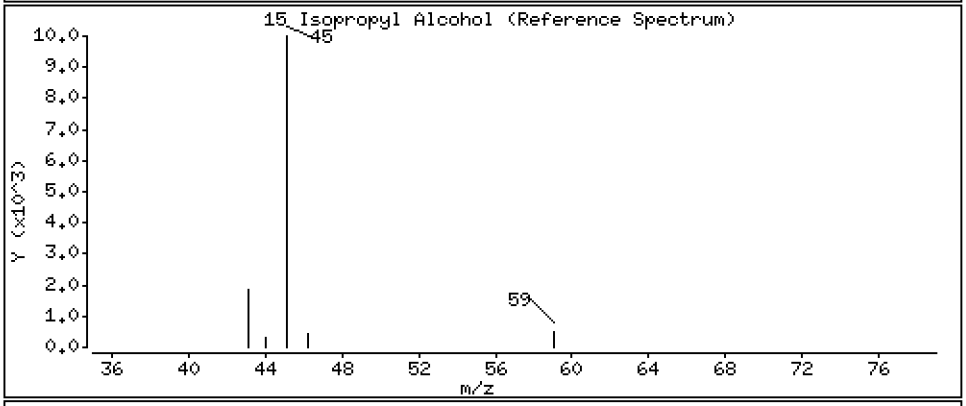
Column phase: DB-VRX Column diameter: 0.25

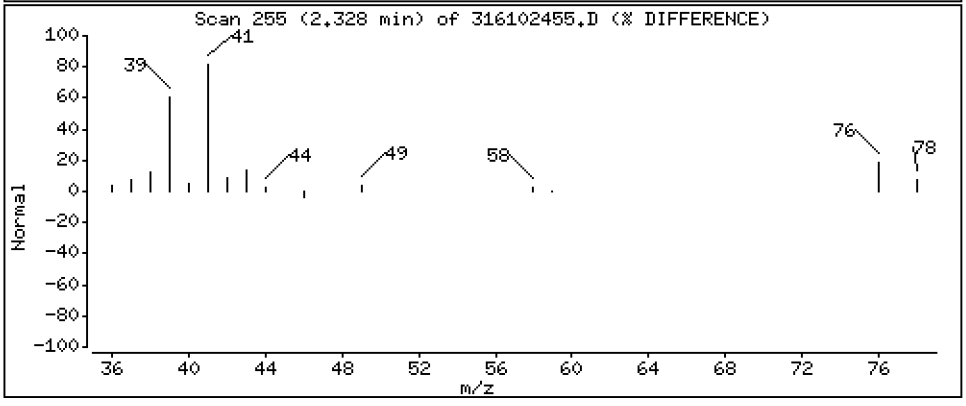
15 Isopropyl Alcohol Concentration: 25.4454 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 24

Date : 25-OCT-2016 00:08

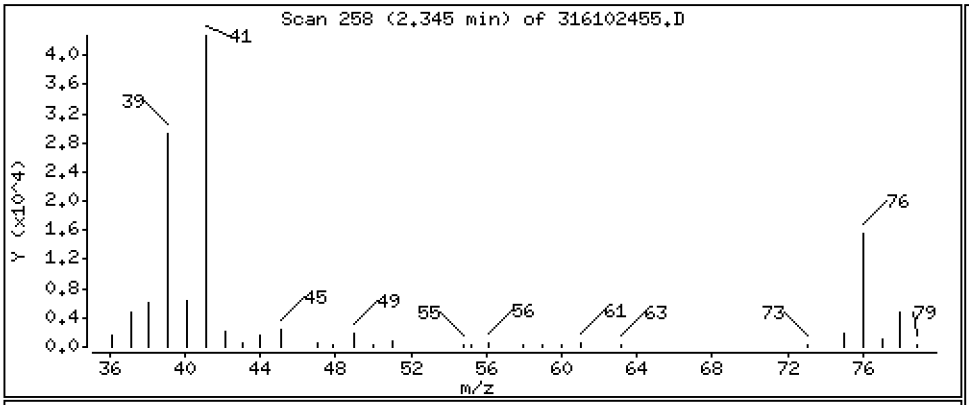
Client ID: Instrument: ms03.i

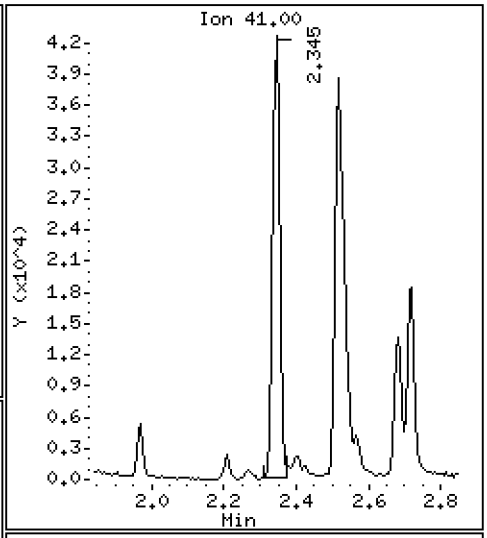
Sample Info: 1235;;1;1;2;;;

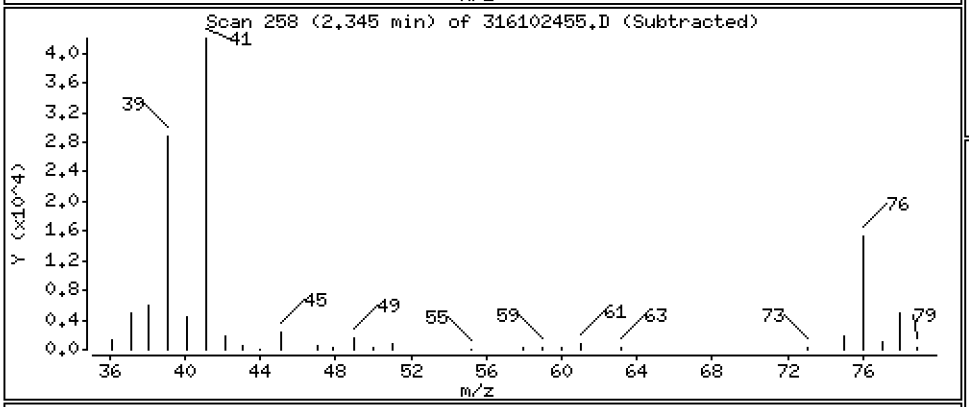
Purge Volume: 5.0 Operator: CJG

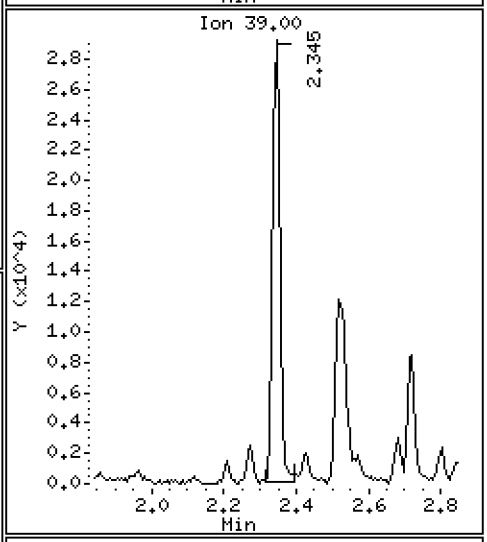
Column phase: DB-VRX Column diameter: 0.25

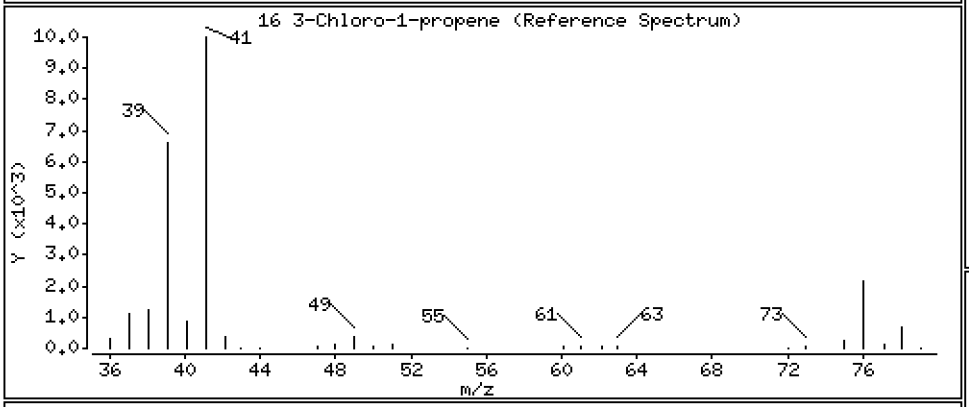
16 3-Chloro-1-propene Concentration: 4.50606 ug/L

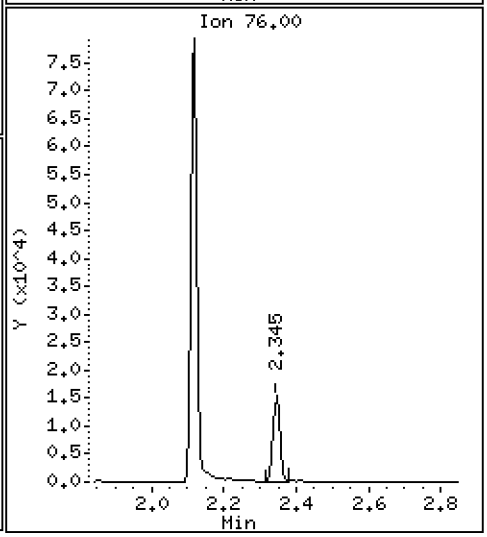


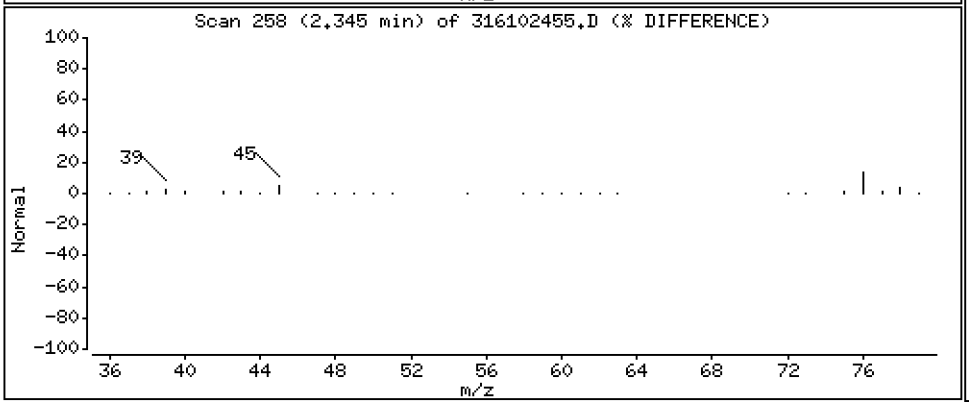












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 25

Date : 25-OCT-2016 00:08

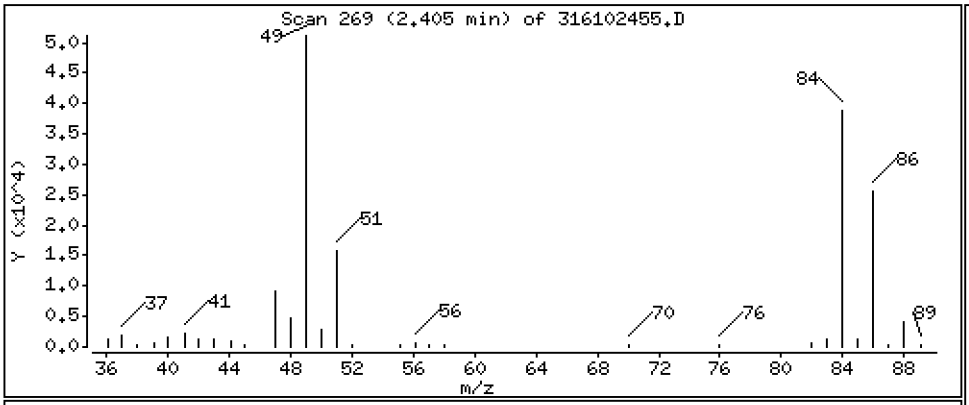
Client ID: Instrument: ms03.i

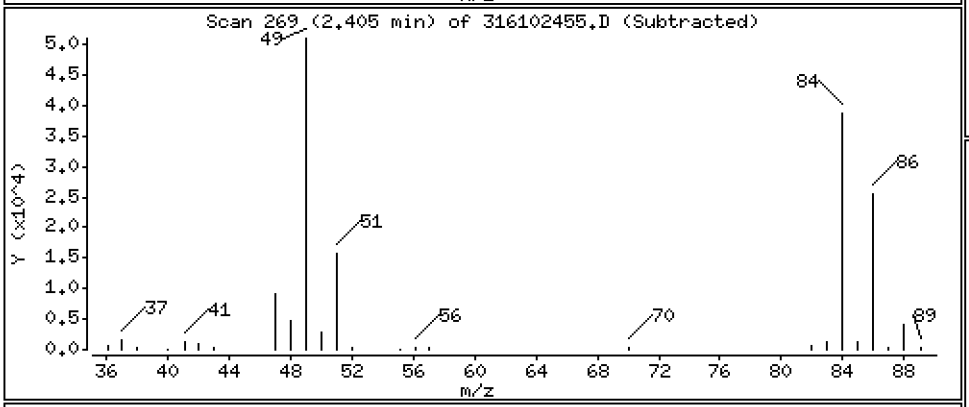
Sample Info: 1235;;1;1;2;;;

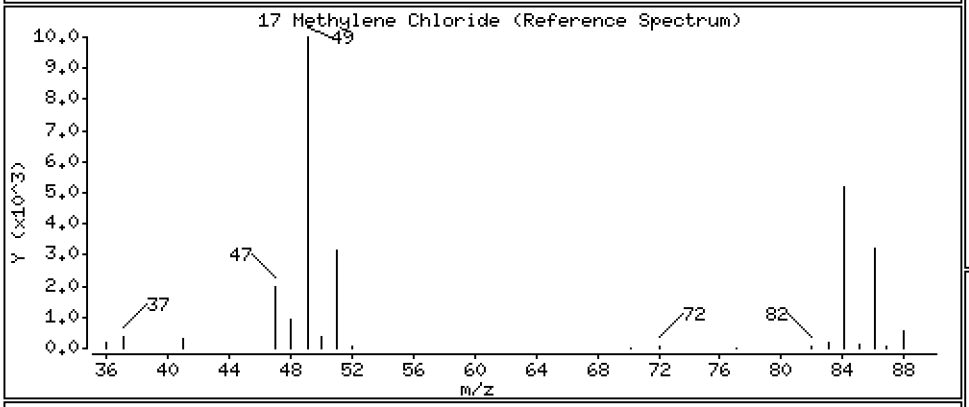
Purge Volume: 5.0 Operator: CJG

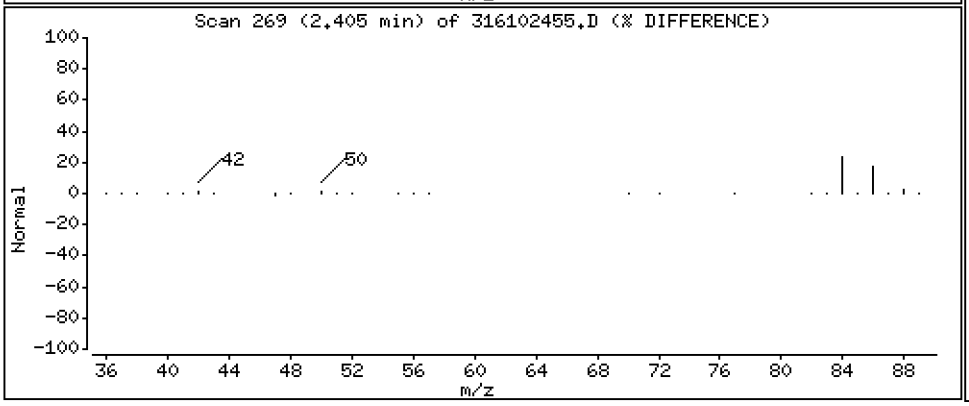
Column phase: DB-VRX Column diameter: 0.25

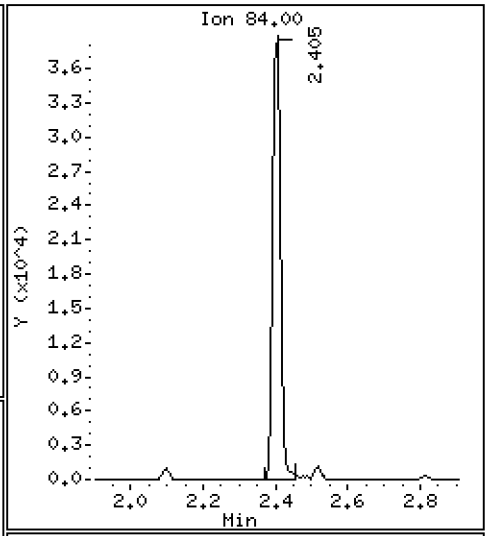
17 Methylene Chloride Concentration: 5.24071 ug/L

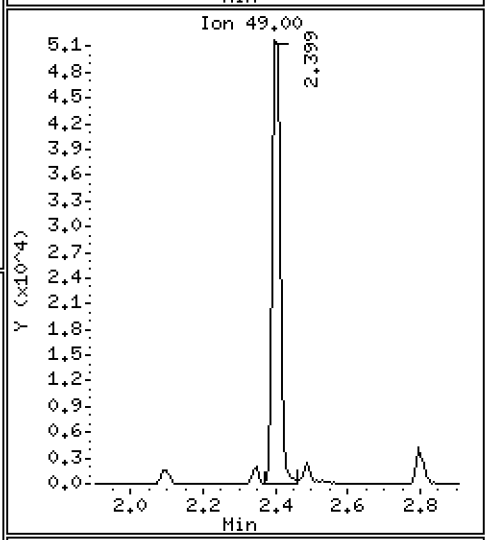


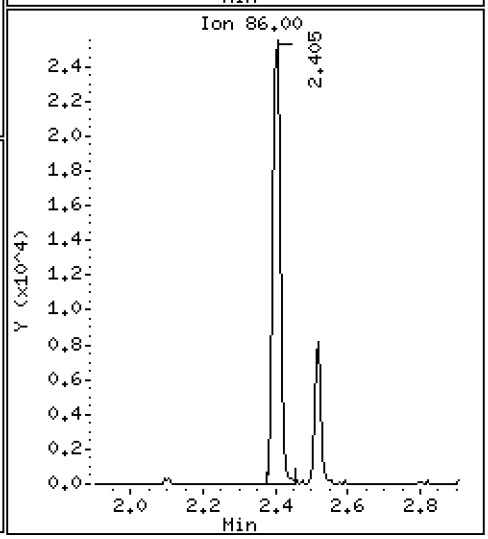












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 26

Date : 25-OCT-2016 00:08

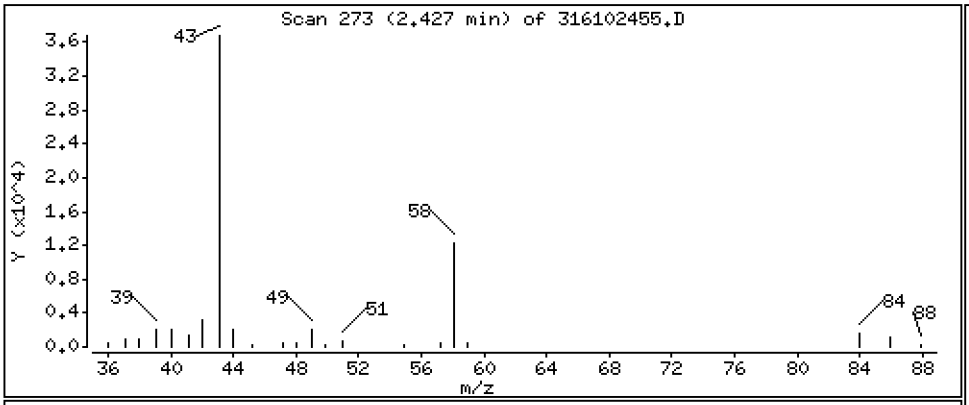
Client ID: Instrument: ms03.i

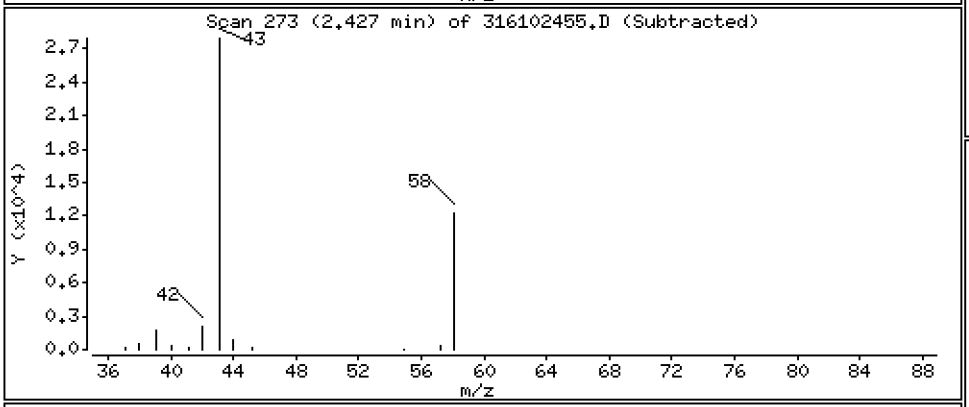
Sample Info: 1235;;1;1;2;;;

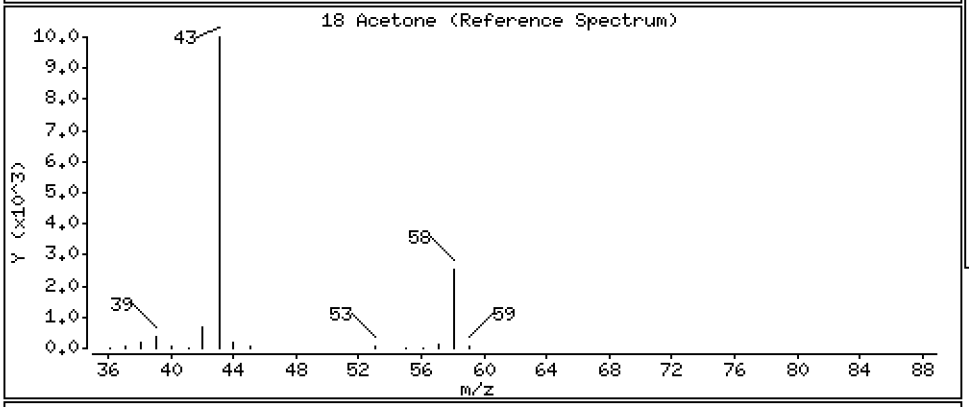
Purge Volume: 5.0 Operator: CJG

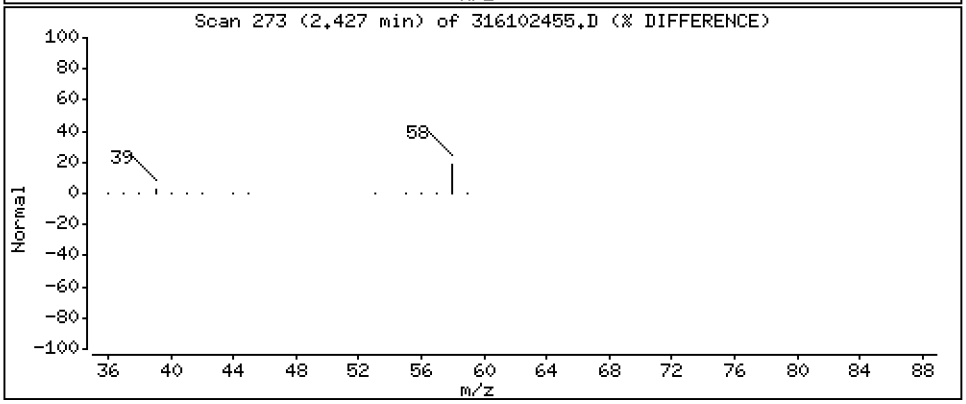
Column phase: DB-VRX Column diameter: 0.25

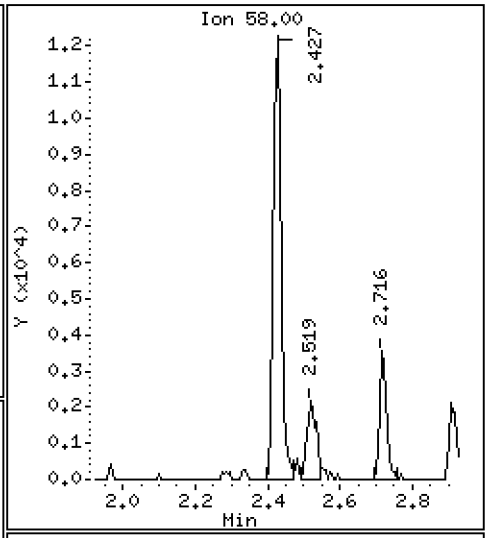
18 Acetone Concentration: 26.9980 ug/L

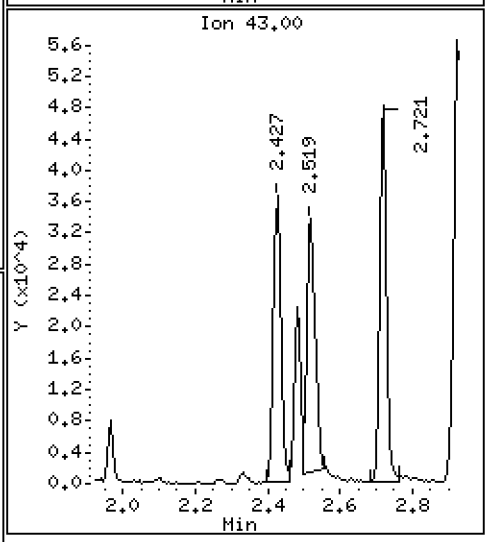












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 27

Date : 25-OCT-2016 00:08

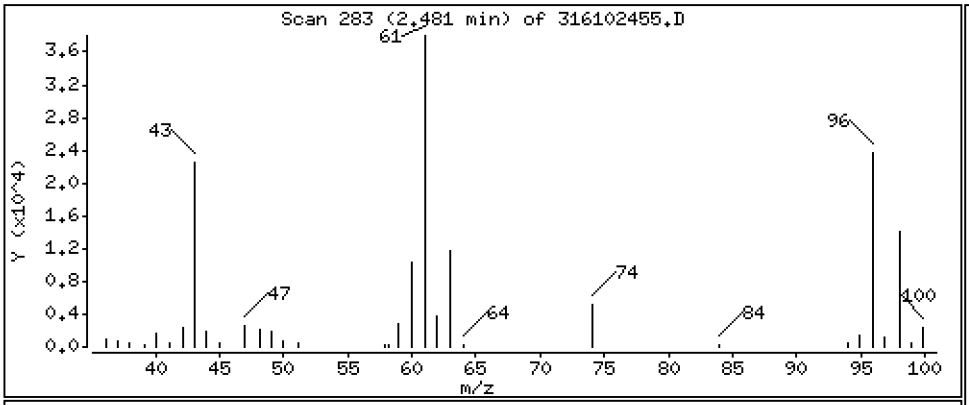
Client ID: Instrument: ms03.i

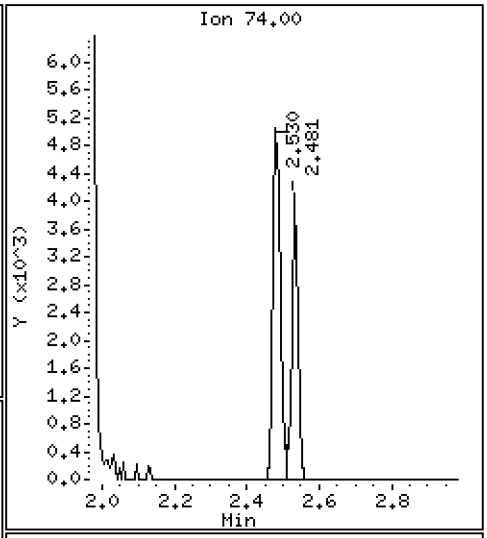
Sample Info: 1235;;1;1;2;;;

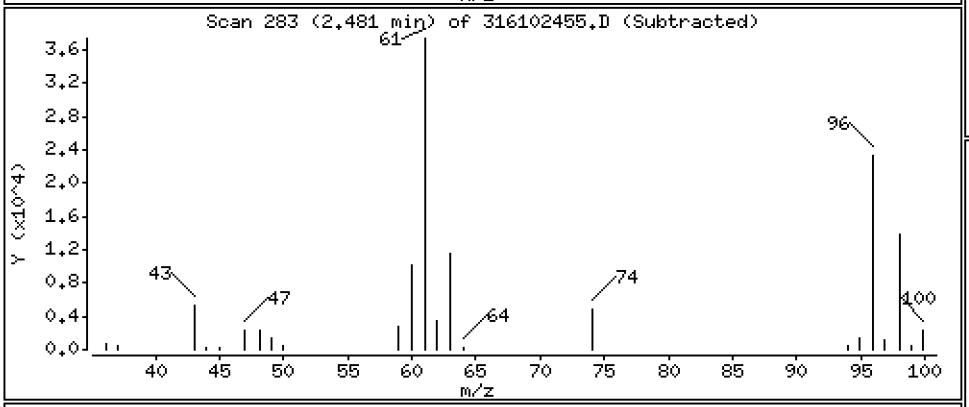
Purge Volume: 5.0 Operator: CJG

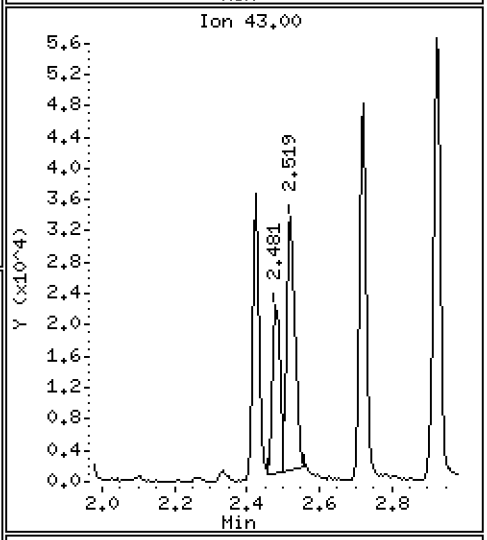
Column phase: DB-VRX Column diameter: 0.25

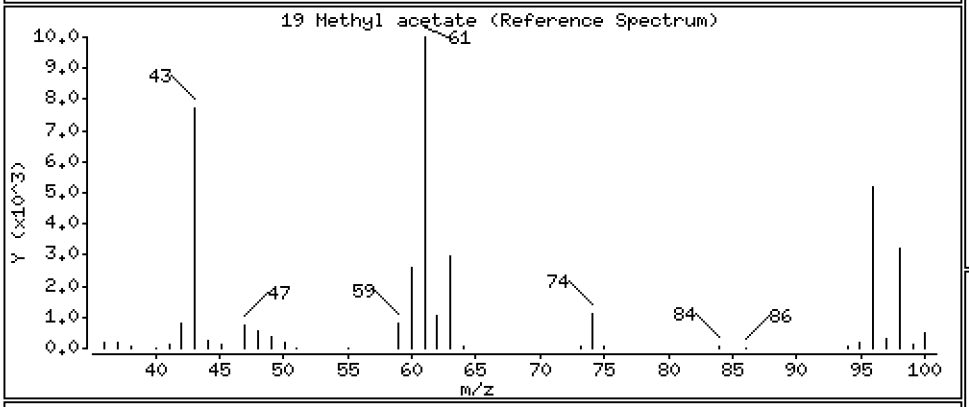
19 Methyl acetate Concentration: 5.11895 ug/L

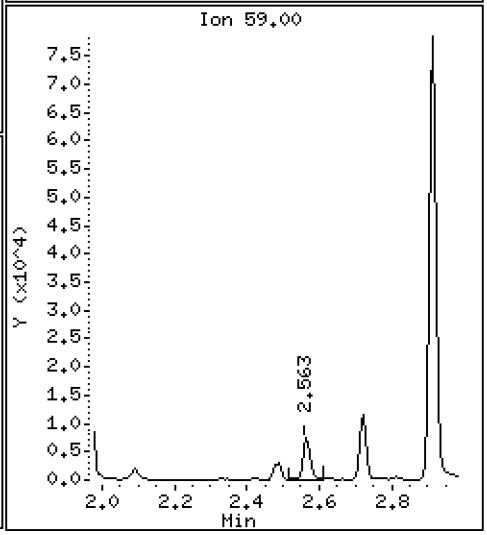


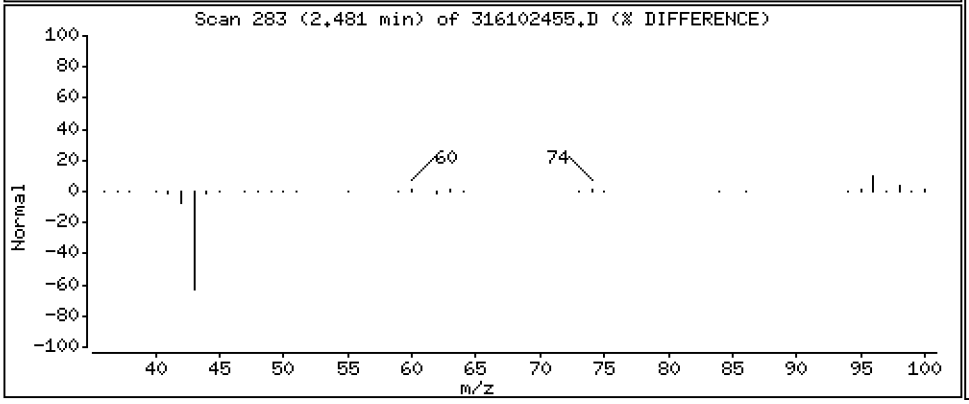












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 28

Date : 25-OCT-2016 00:08

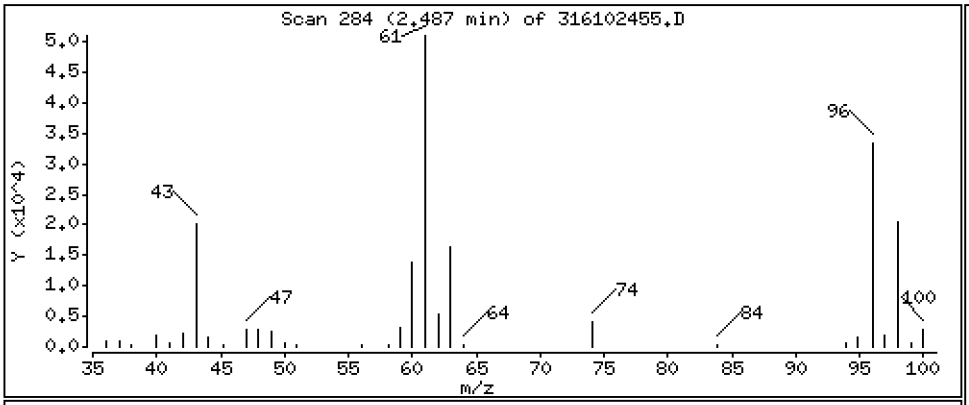
Client ID: Instrument: ms03.i

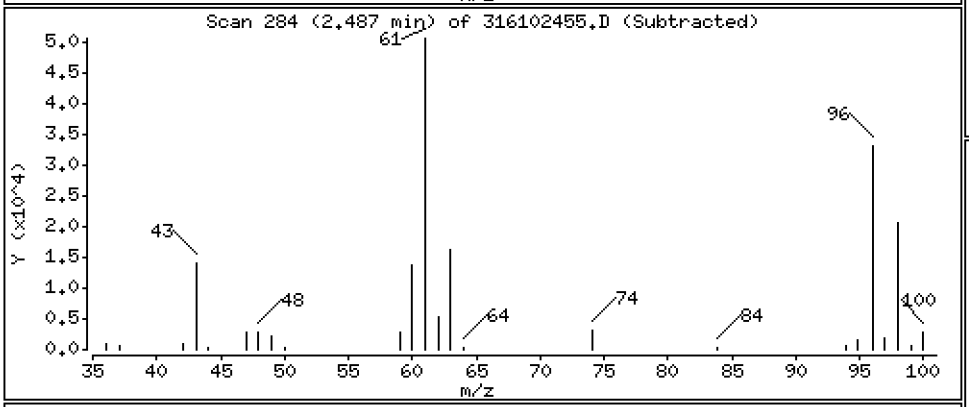
Sample Info: 1235;;1;1;2;;;

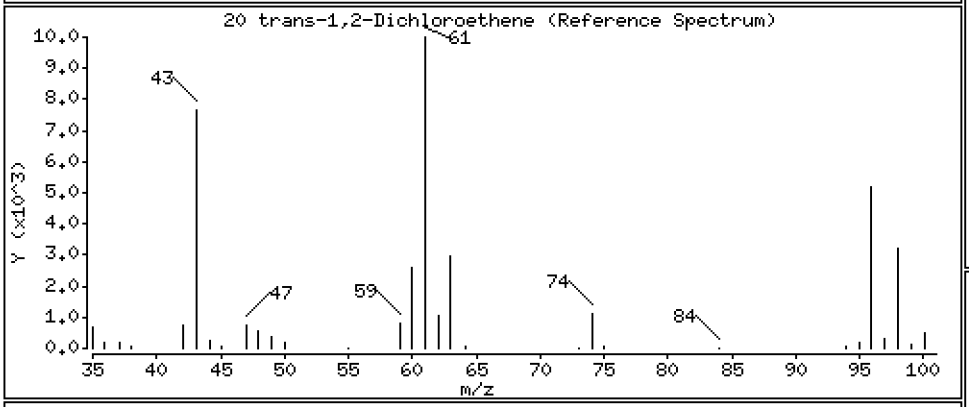
Purge Volume: 5.0 Operator: CJG

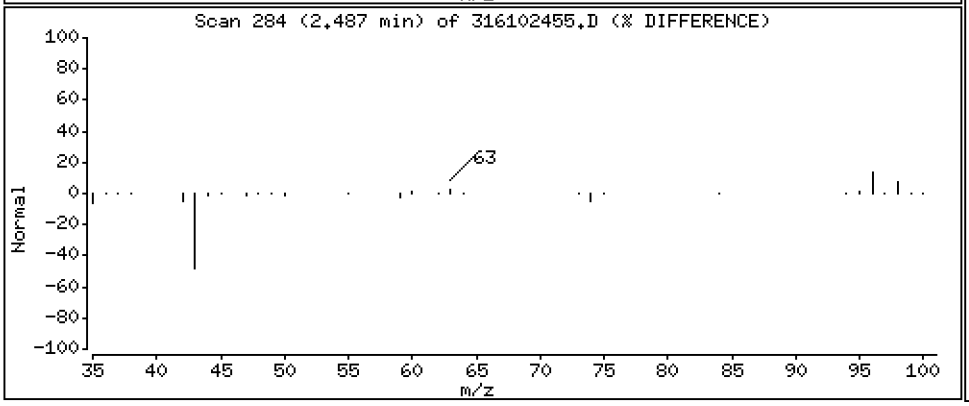
Column phase: DB-VRX Column diameter: 0.25

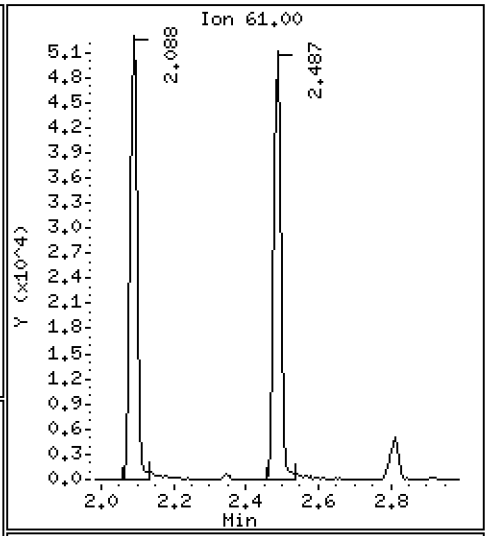
20 trans-1,2-Dichloroethene Concentration: 5.39652 ug/L

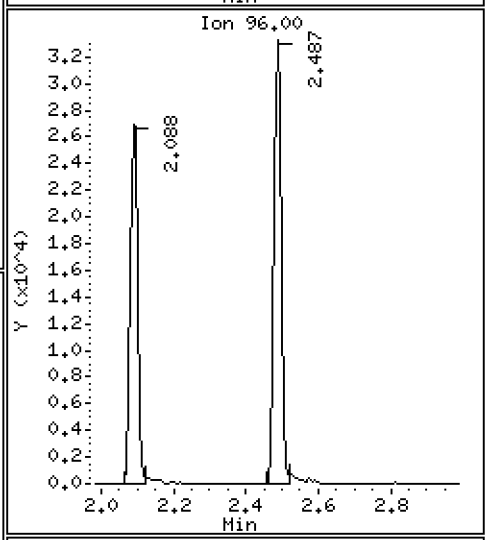


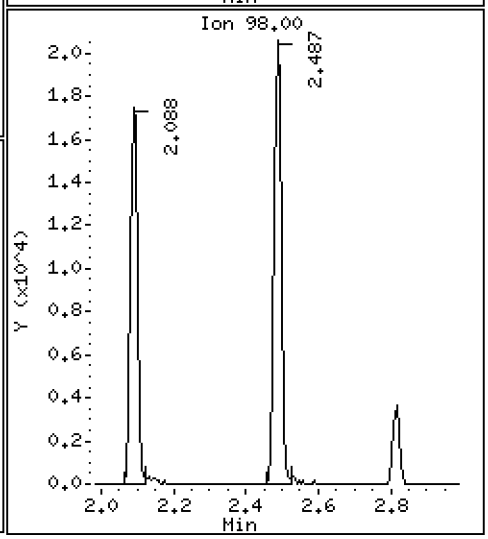












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 29

Date : 25-OCT-2016 00:08

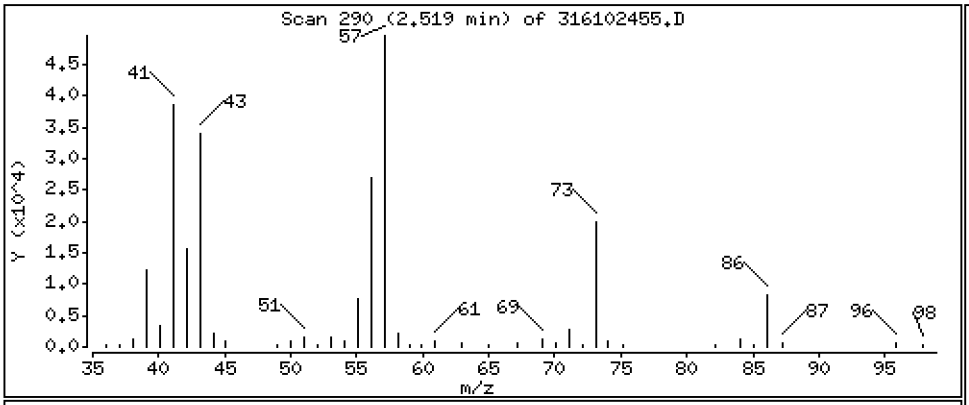
Client ID: Instrument: ms03.i

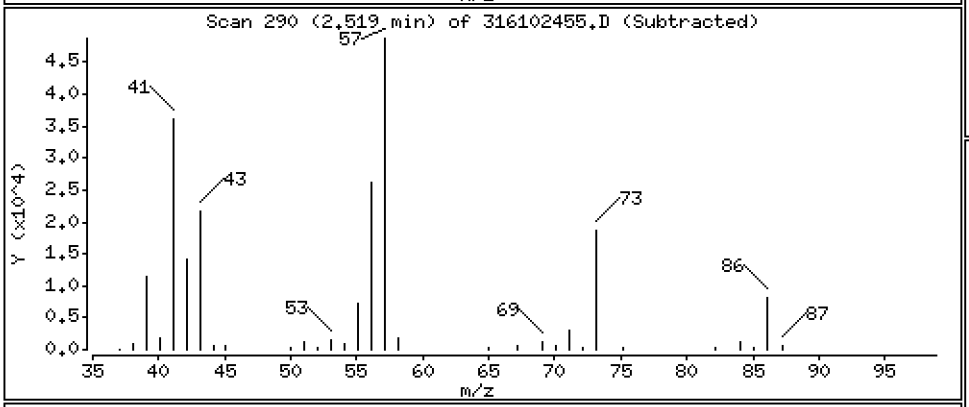
Sample Info: 1235;;1;1;2;;;

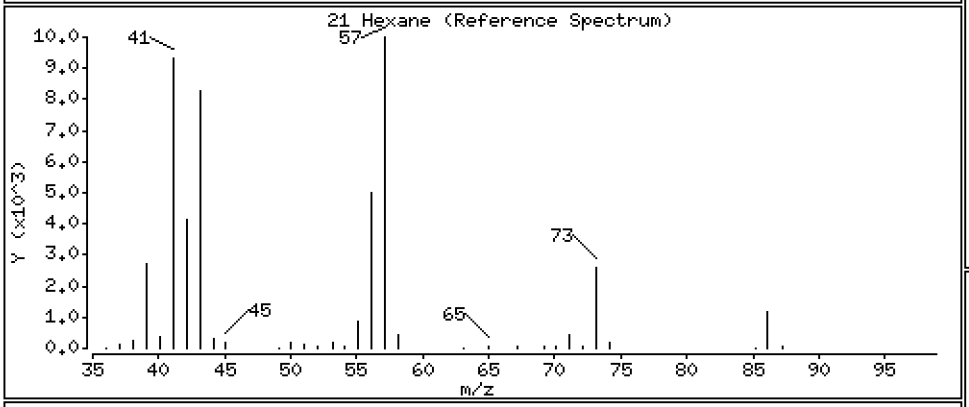
Purge Volume: 5.0 Operator: CJG

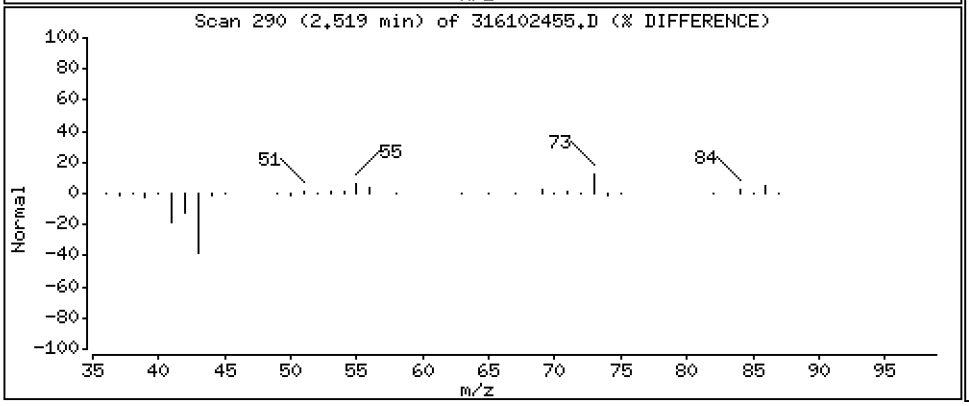
Column phase: DB-VRX Column diameter: 0.25

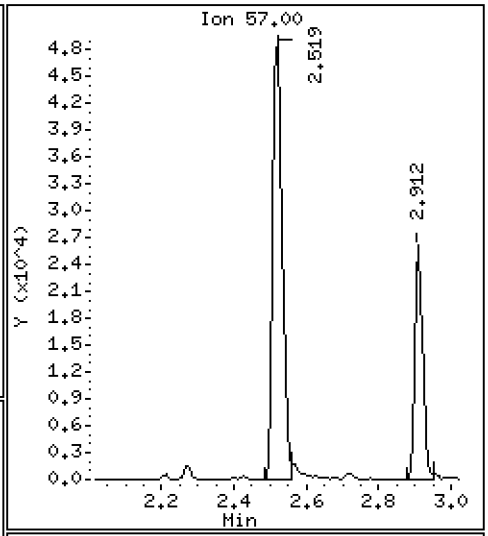
21 Hexane Concentration: 5.00084 ug/L

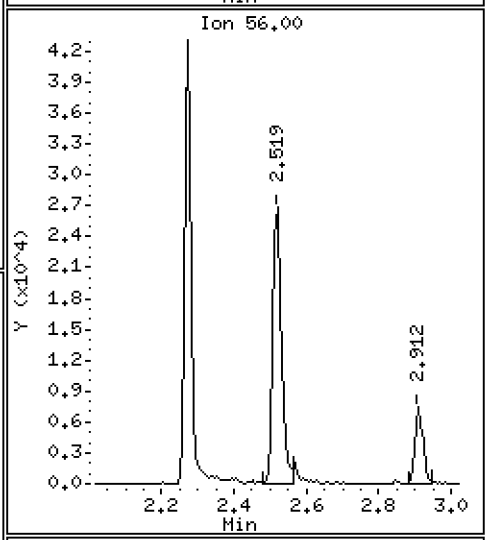


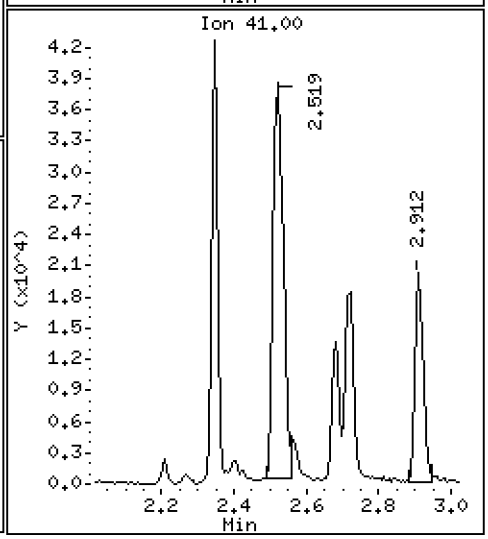












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 30

Date : 25-OCT-2016 00:08

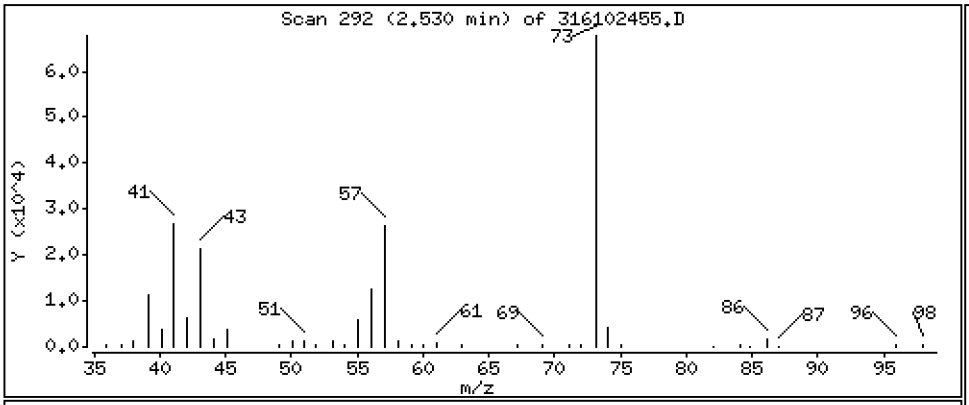
Client ID: Instrument: ms03.i

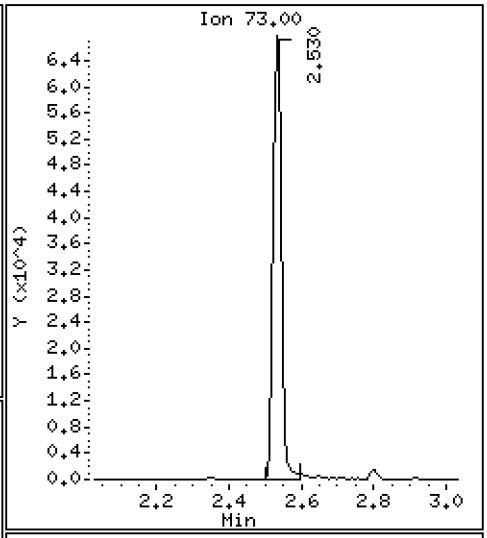
Sample Info: 1235;;1;1;2;;;

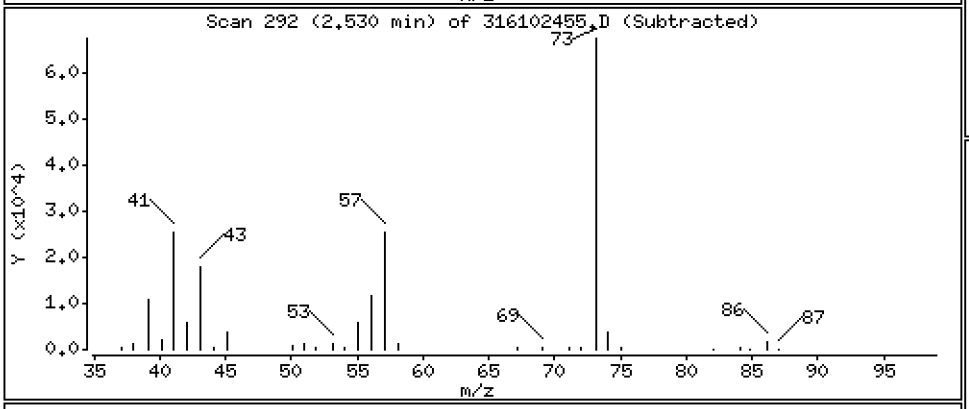
Purge Volume: 5.0 Operator: CJG

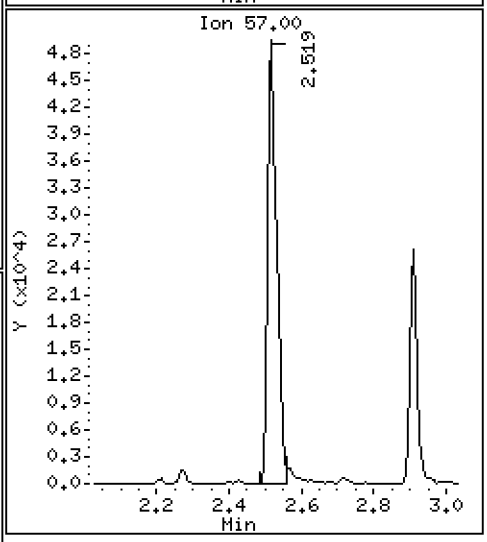
Column phase: DB-VRX Column diameter: 0.25

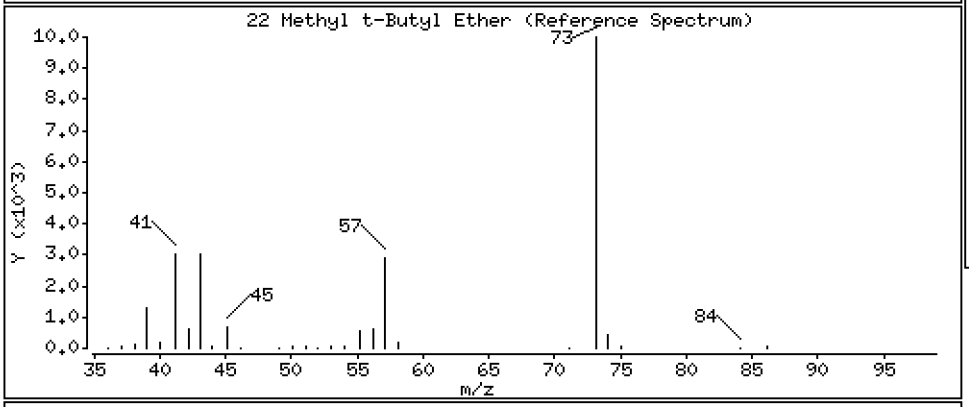
22 Methyl t-Butyl Ether Concentration: 4.76458 ug/L

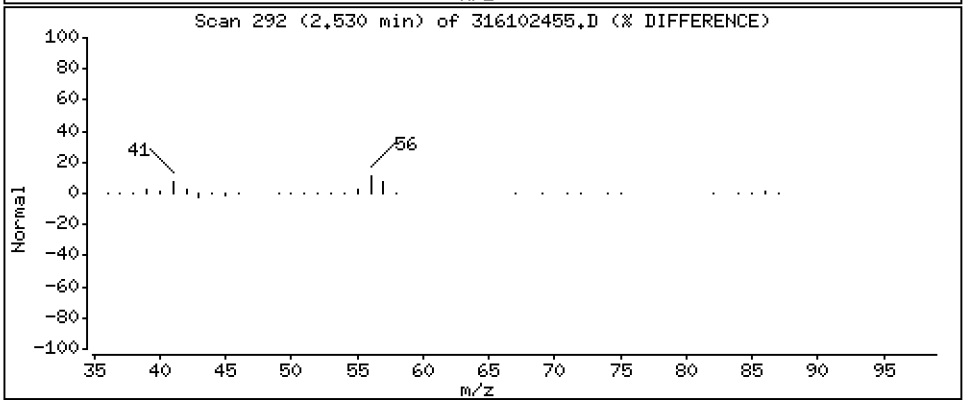












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 31

Date : 25-OCT-2016 00:08

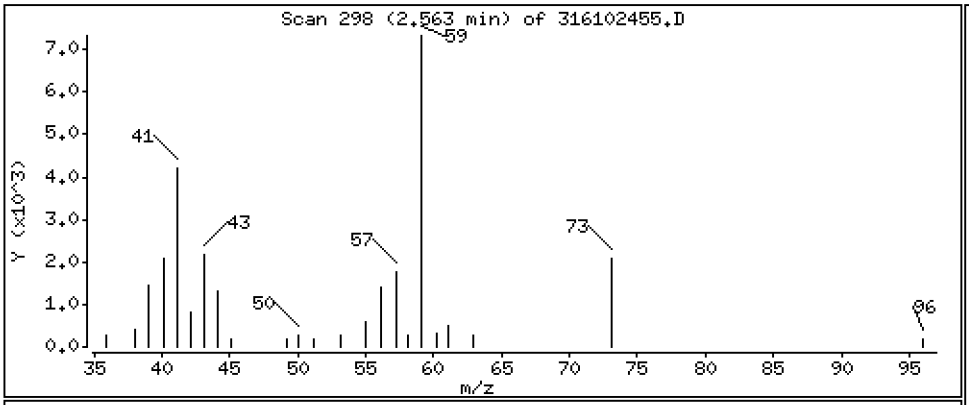
Client ID: Instrument: ms03.i

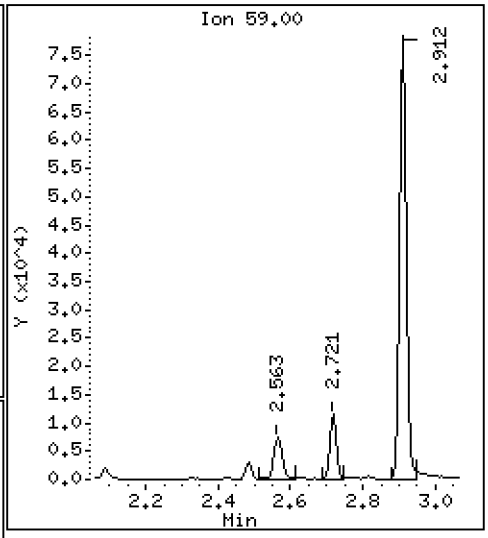
Sample Info: 1235;;1;1;2;;;

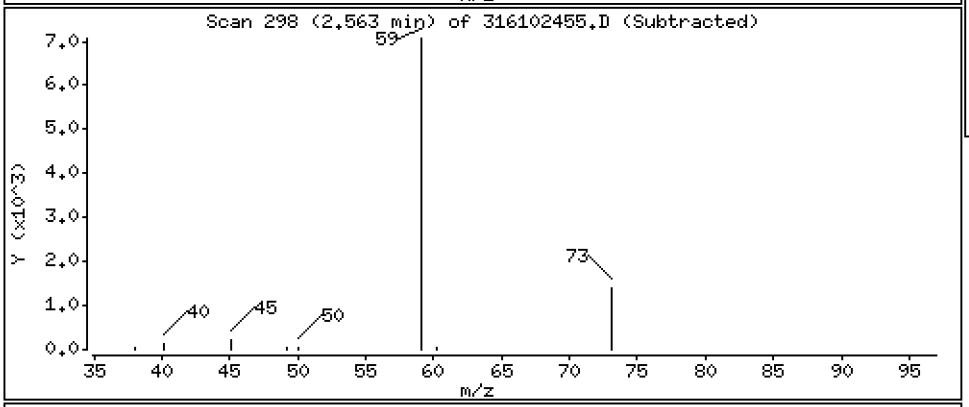
Purge Volume: 5.0 Operator: CJG

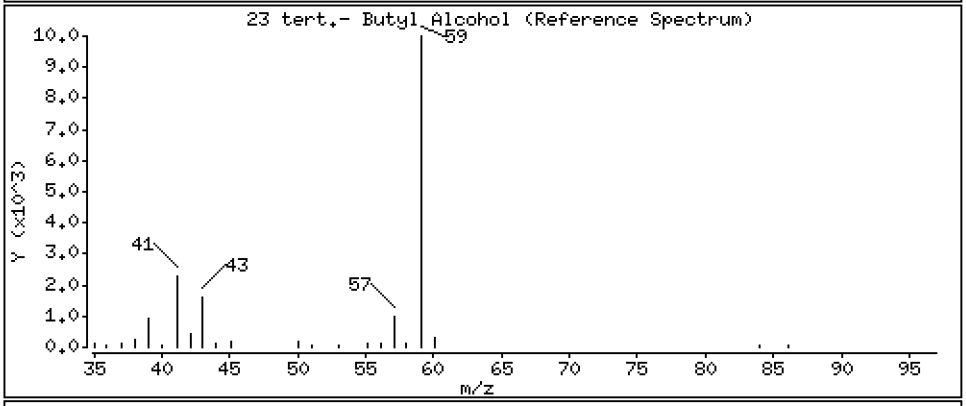
Column phase: DB-VRX Column diameter: 0.25

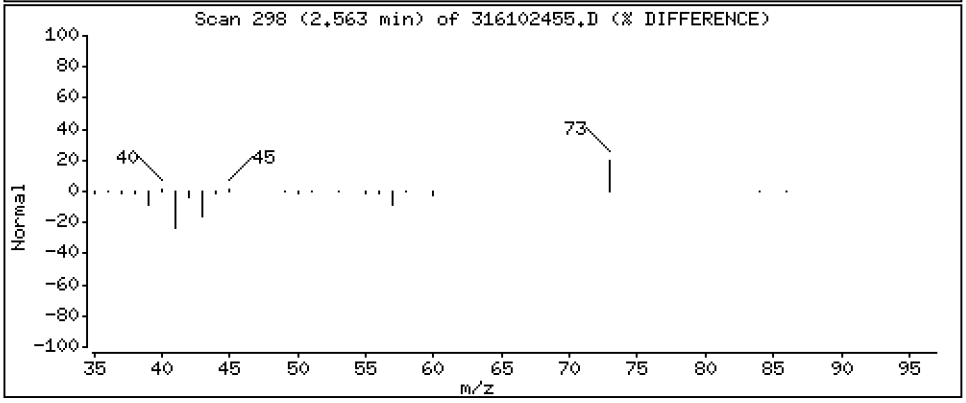
23 tert.- Butyl Alcohol Concentration: 26.3835 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 32

Date : 25-OCT-2016 00:08

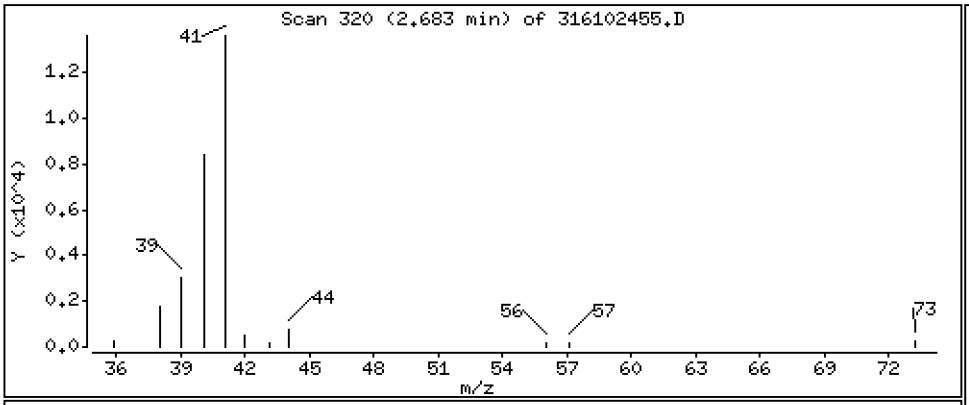
Client ID: Instrument: ms03.i

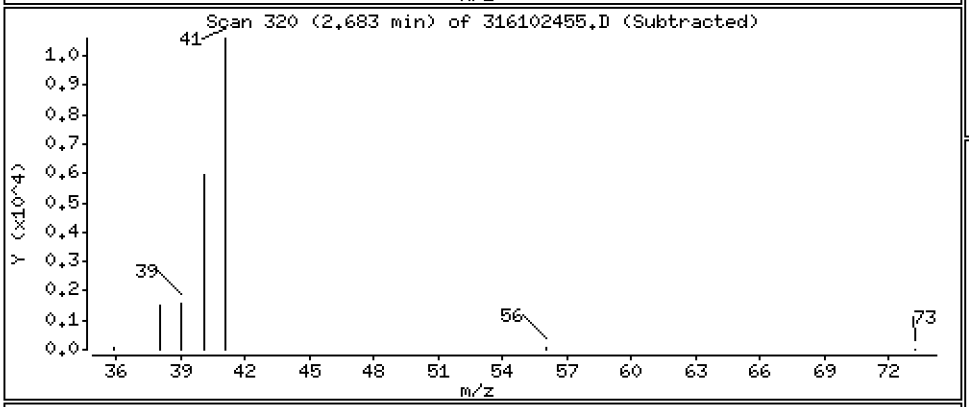
Sample Info: 1235;;1;1;2;;;

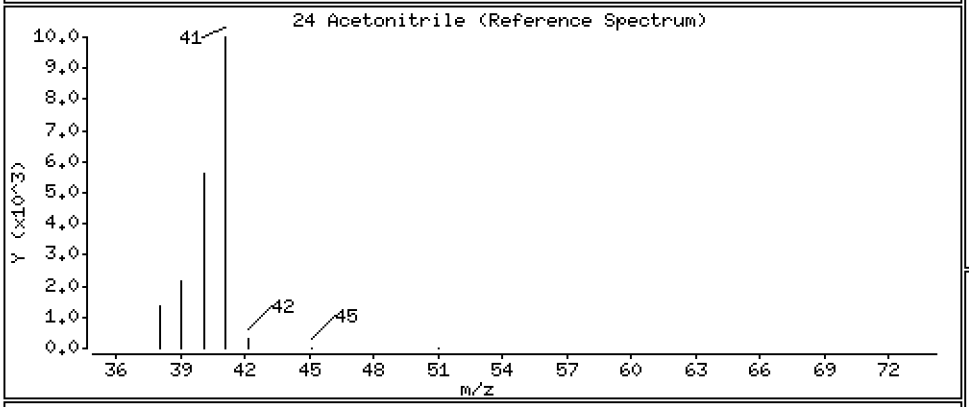
Purge Volume: 5.0 Operator: CJG

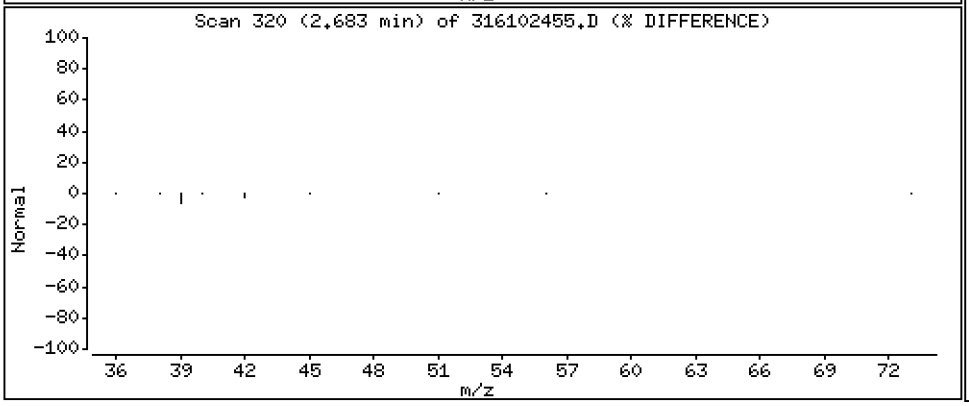
Column phase: DB-VRX Column diameter: 0.25

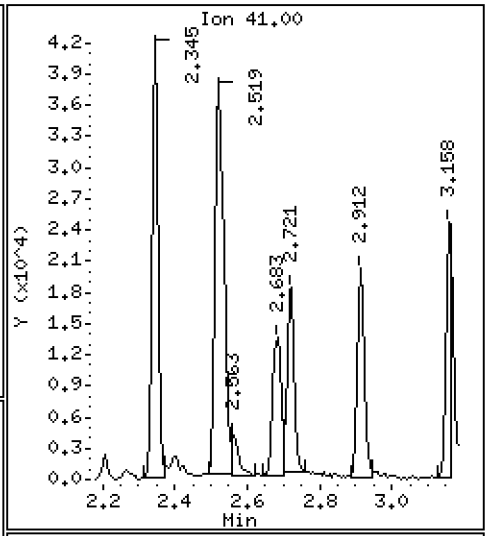
24 Acetonitrile Concentration: 26.5647 ug/L

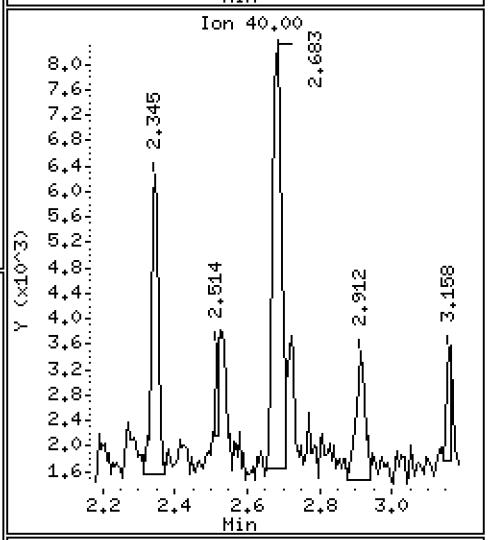


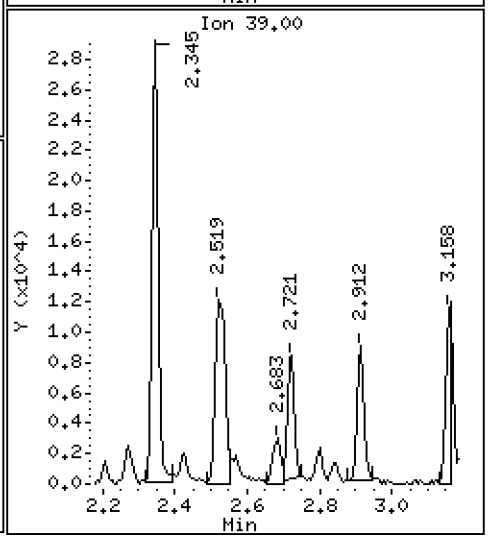












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 33

Date : 25-OCT-2016 00:08

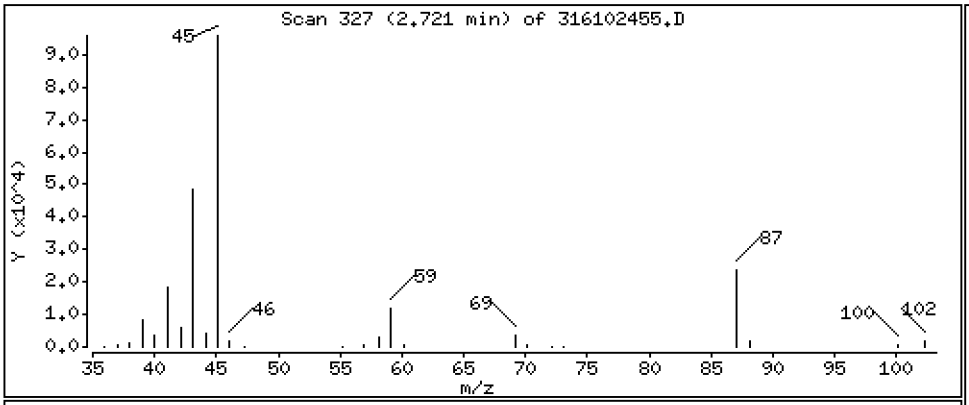
Client ID: Instrument: ms03.i

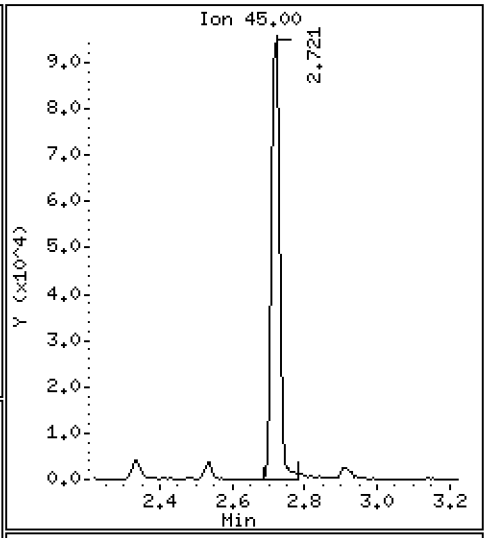
Sample Info: 1235;;1;1;2;;;

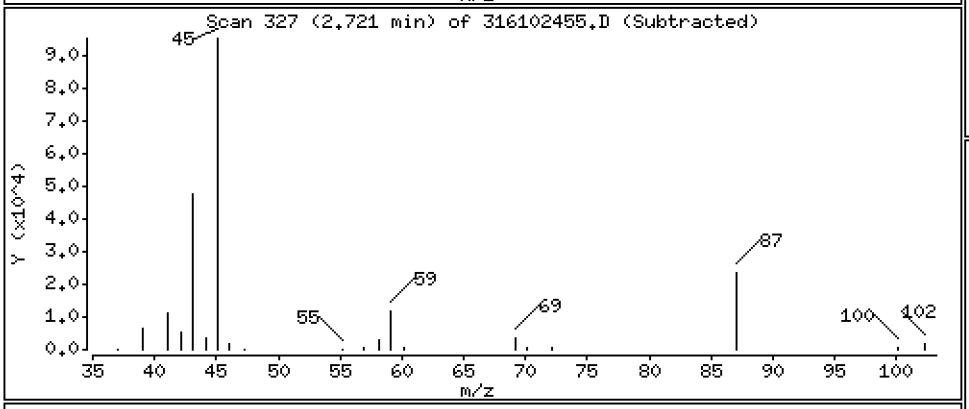
Purge Volume: 5.0 Operator: CJG

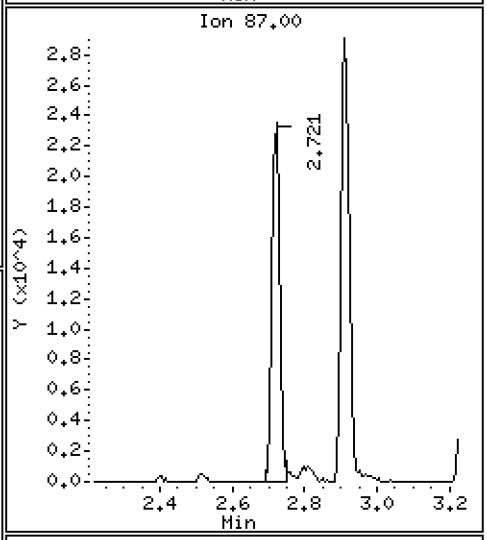
Column phase: DB-VRX Column diameter: 0.25

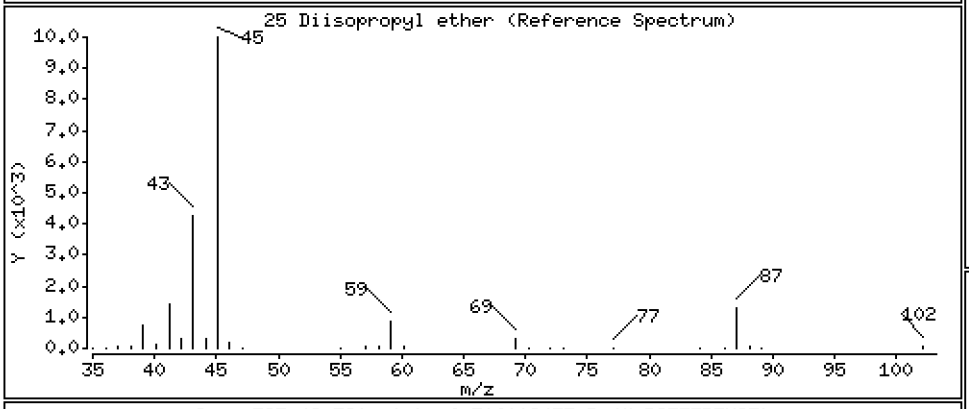
25 Diisopropyl ether Concentration: 4.64902 ug/L

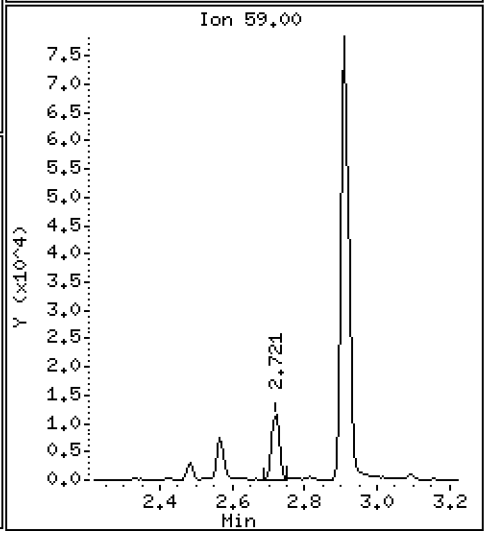


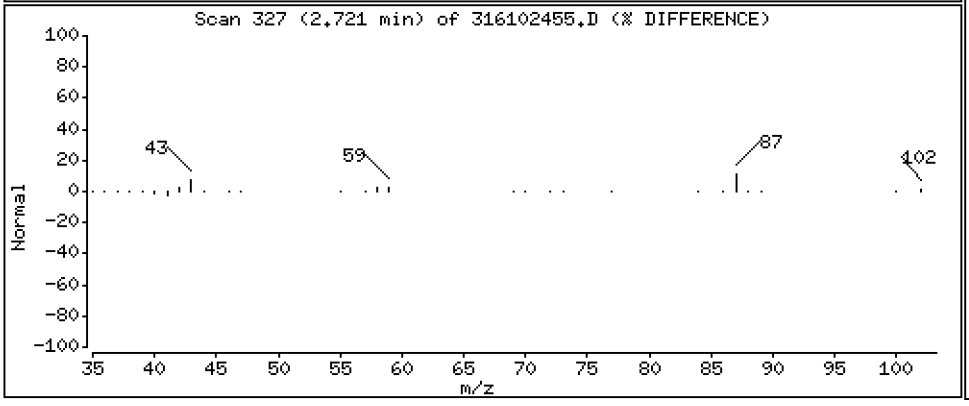












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 34

Date : 25-OCT-2016 00:08

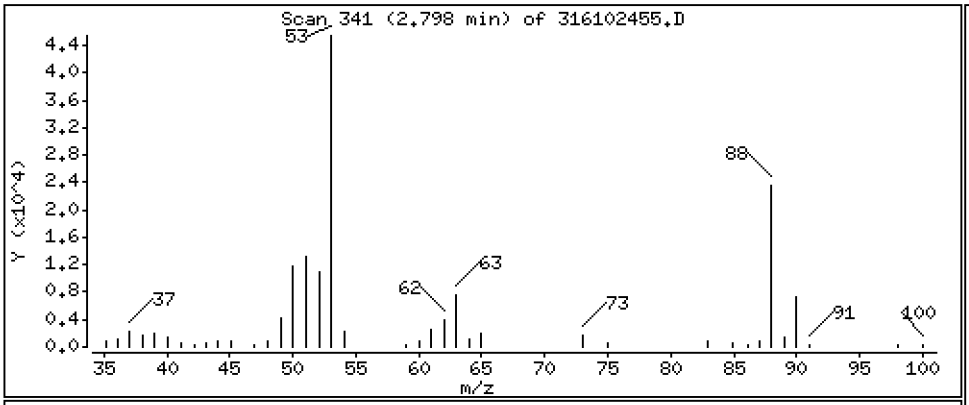
Client ID: Instrument: ms03.i

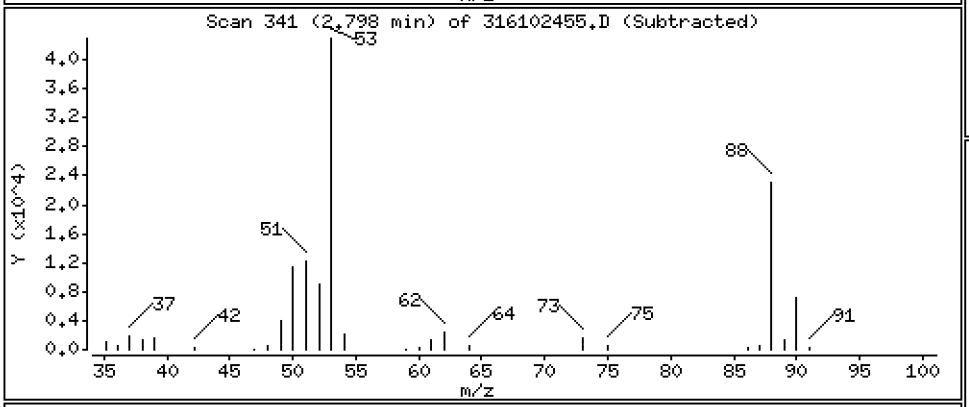
Sample Info: 1235;;1;1;2;;;

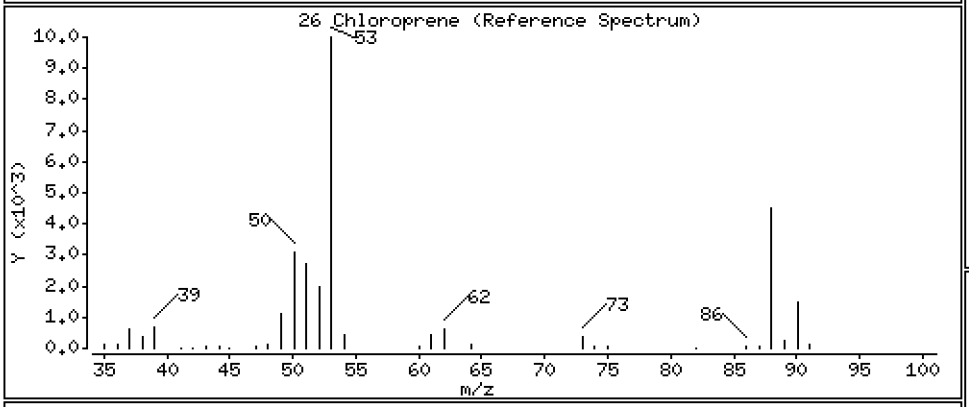
Purge Volume: 5.0 Operator: CJG

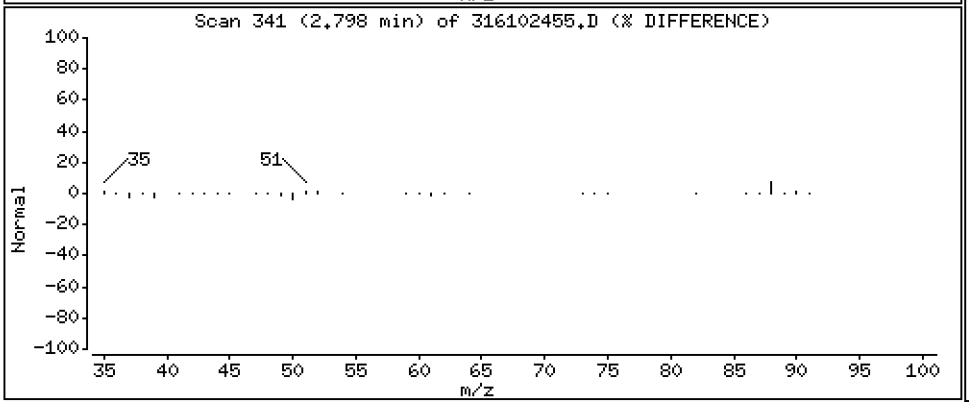
Column phase: DB-VRX Column diameter: 0.25

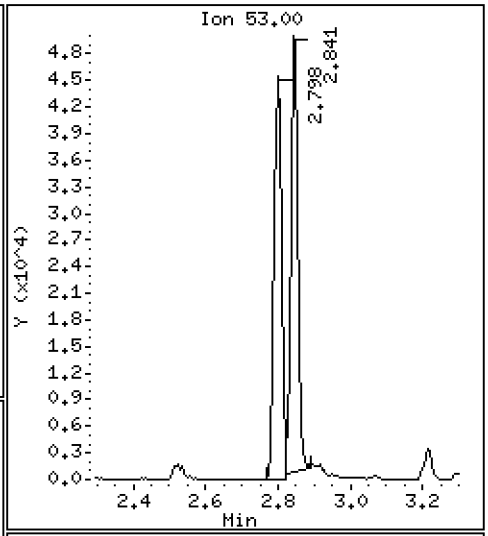
26 Chloroprene Concentration: 5.06181 ug/L

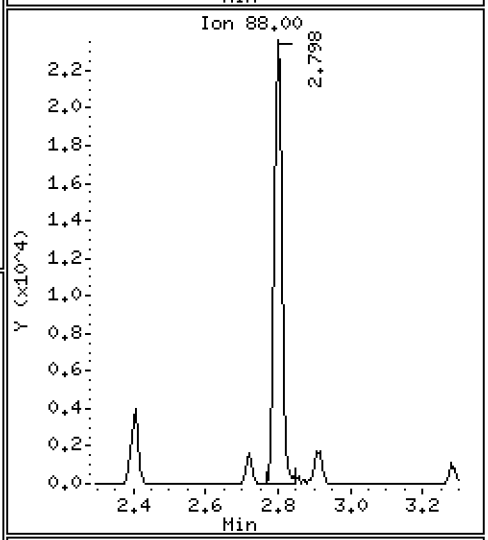


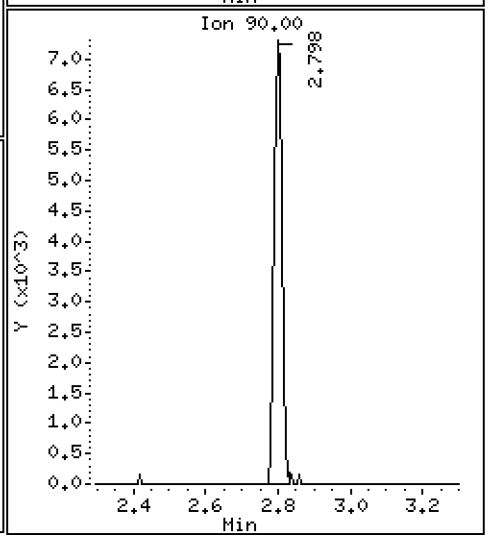












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 35

Date : 25-OCT-2016 00:08

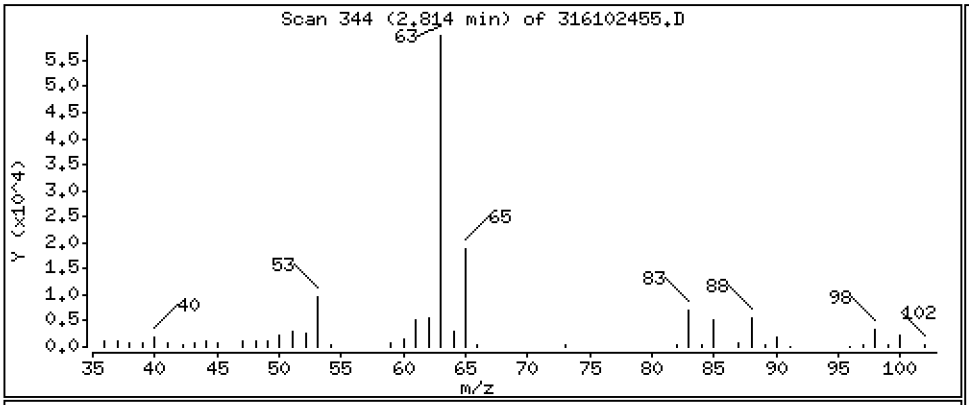
Client ID: Instrument: ms03.i

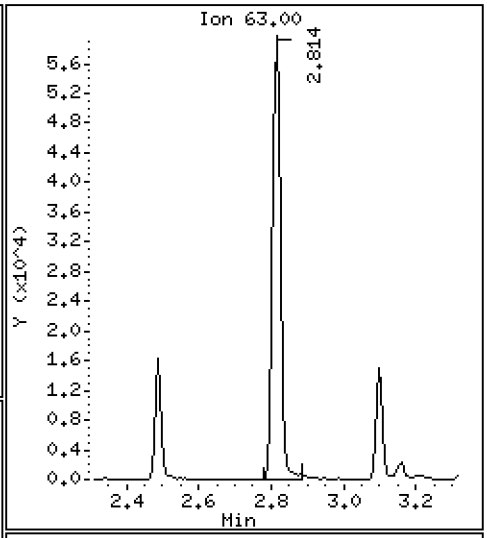
Sample Info: 1235;;1;1;2;;;

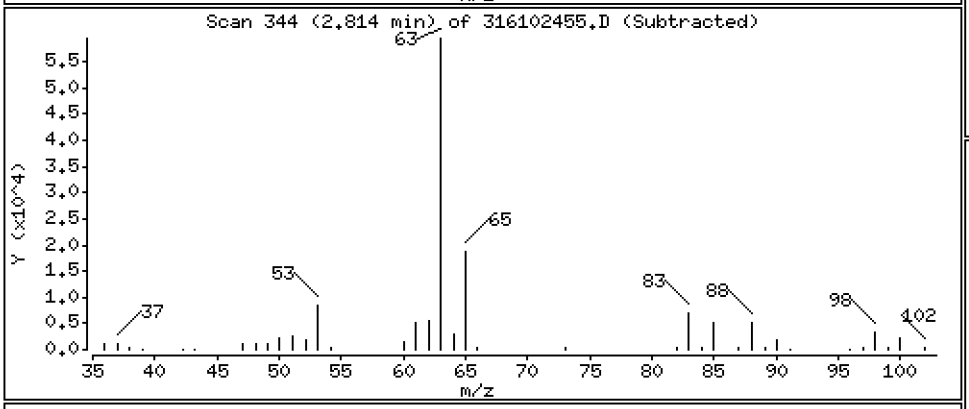
Purge Volume: 5.0 Operator: CJG

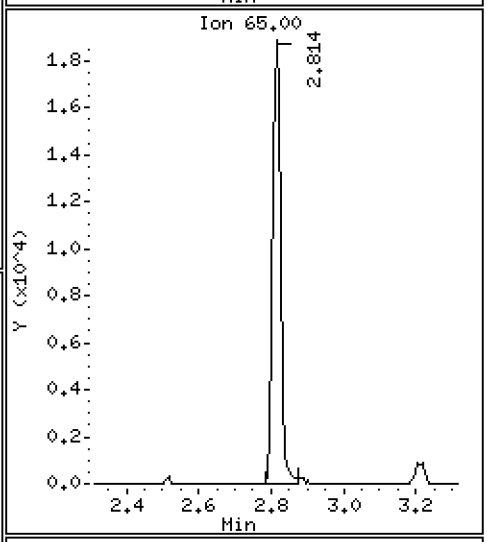
Column phase: DB-VRX Column diameter: 0.25

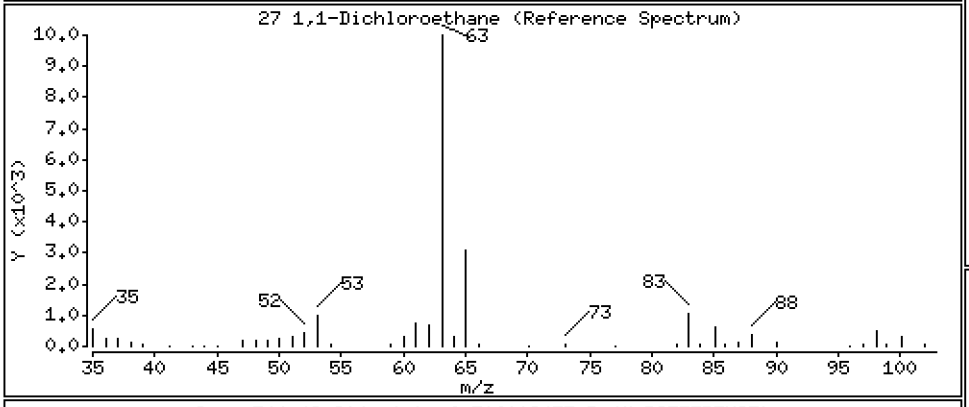
27 1,1-Dichloroethane Concentration: 5.51333 ug/L

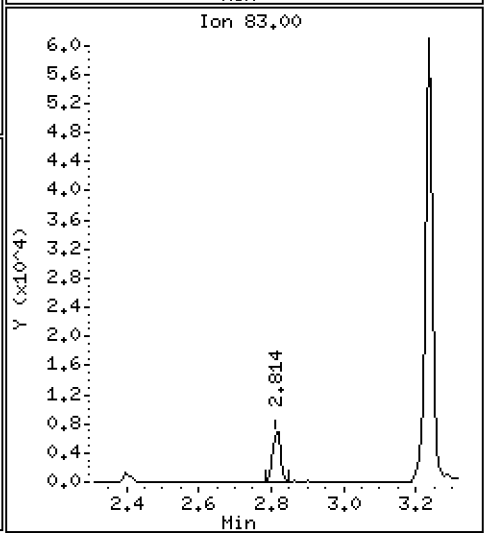


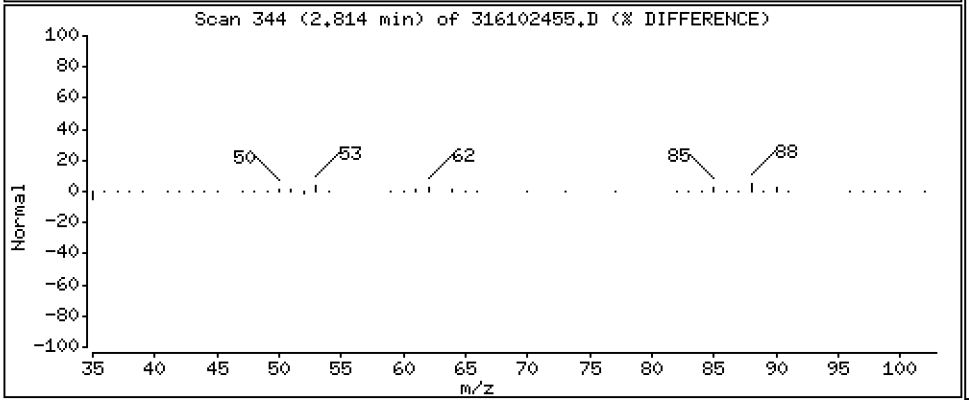












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 36

Date : 25-OCT-2016 00:08

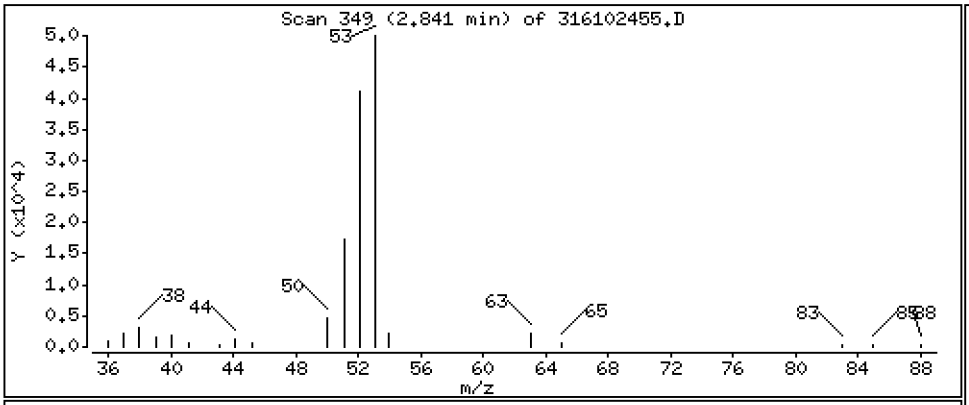
Client ID: Instrument: ms03.i

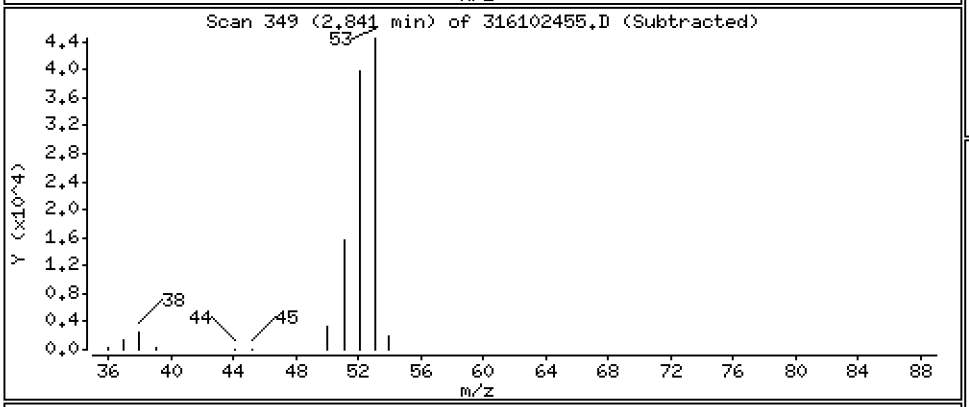
Sample Info: 1235;;1;1;2;;;

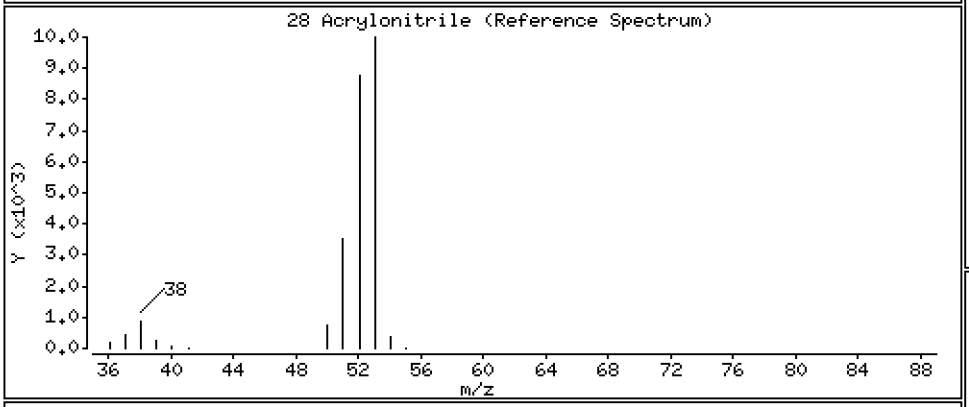
Purge Volume: 5.0 Operator: CJG

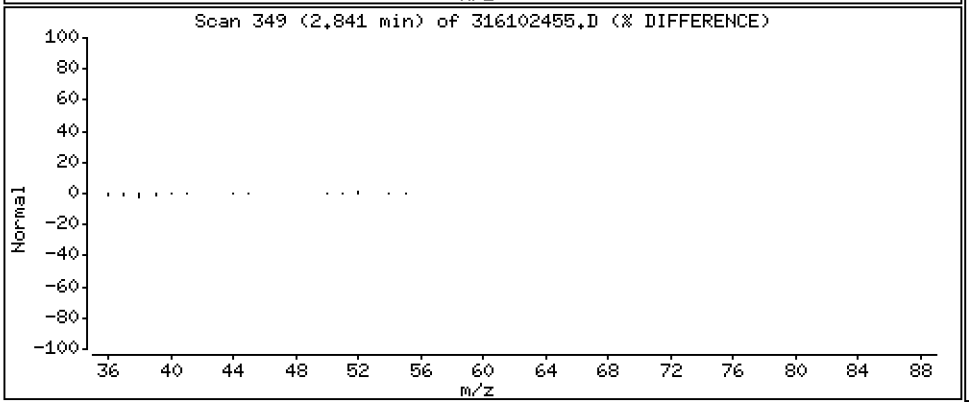
Column phase: DB-VRX Column diameter: 0.25

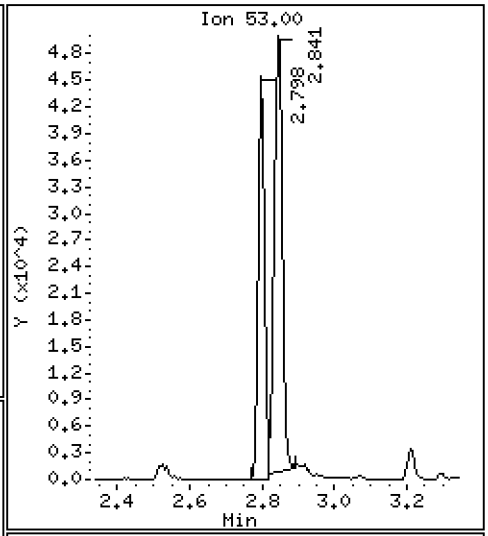
28 Acrylonitrile Concentration: 24.8024 ug/L

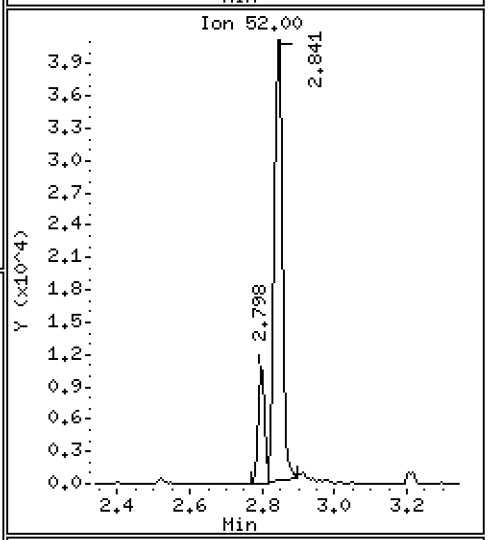


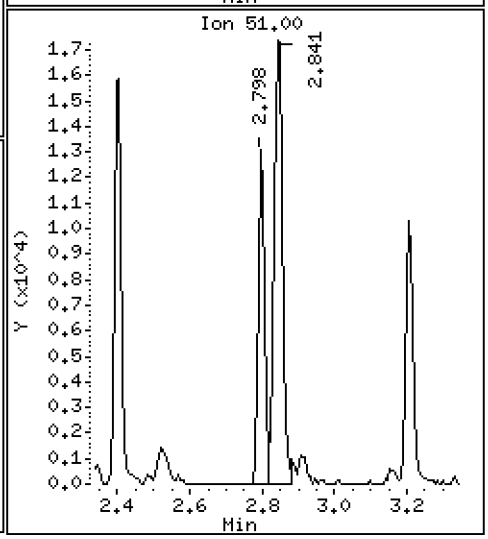












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 37

Date : 25-OCT-2016 00:08

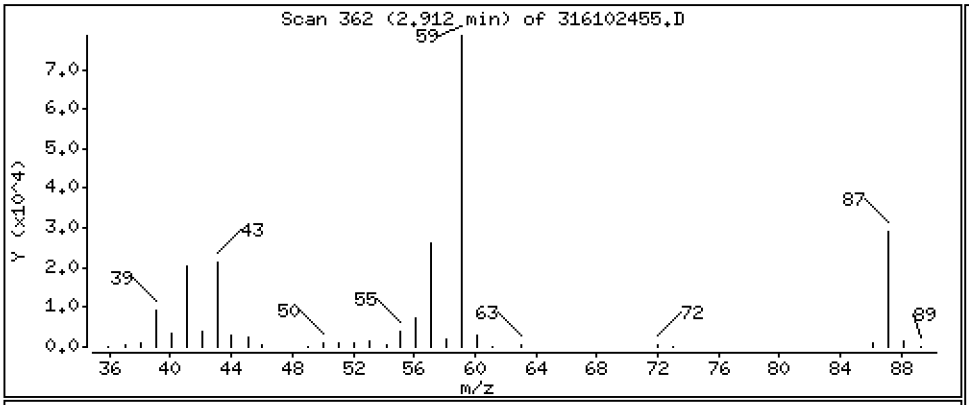
Client ID: Instrument: ms03.i

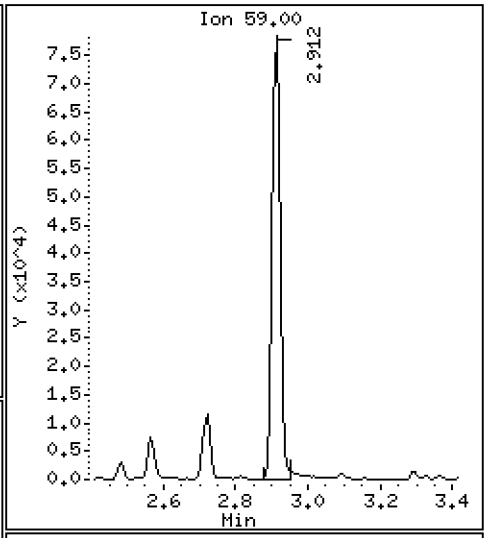
Sample Info: 1235;;1;1;2;;;

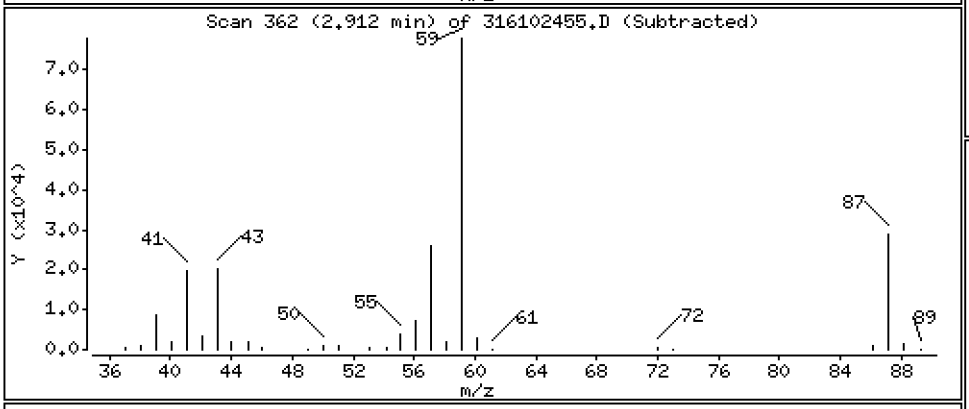
Purge Volume: 5.0 Operator: CJG

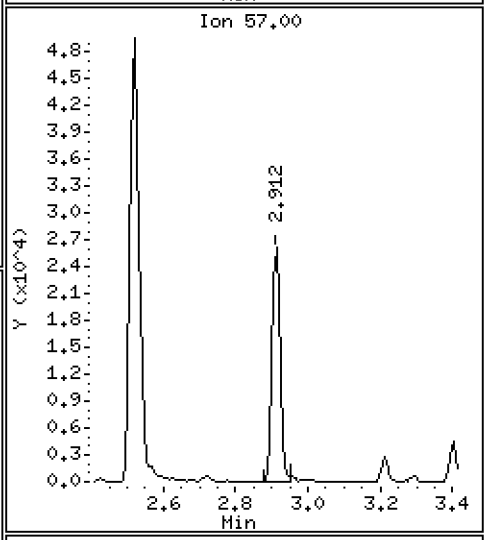
Column phase: DB-VRX Column diameter: 0.25

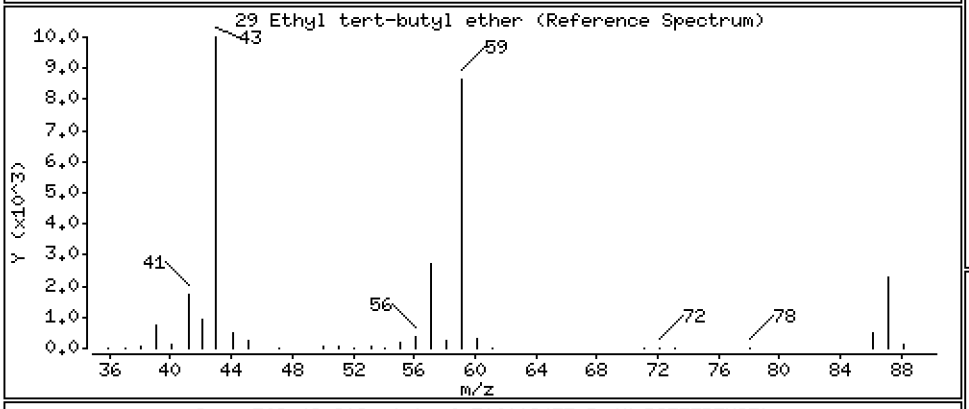
29 Ethyl tert-butyl ether Concentration: 4.47169 ug/L

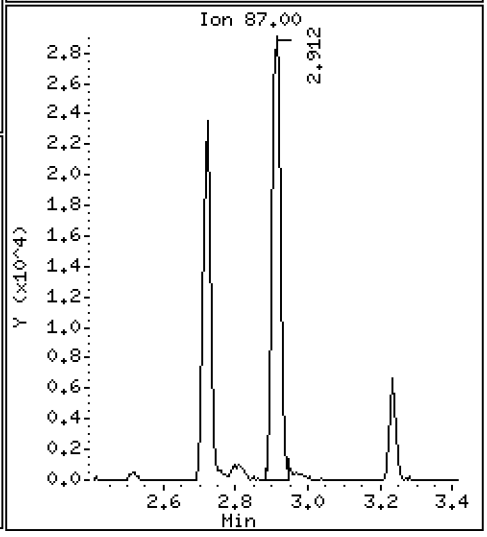


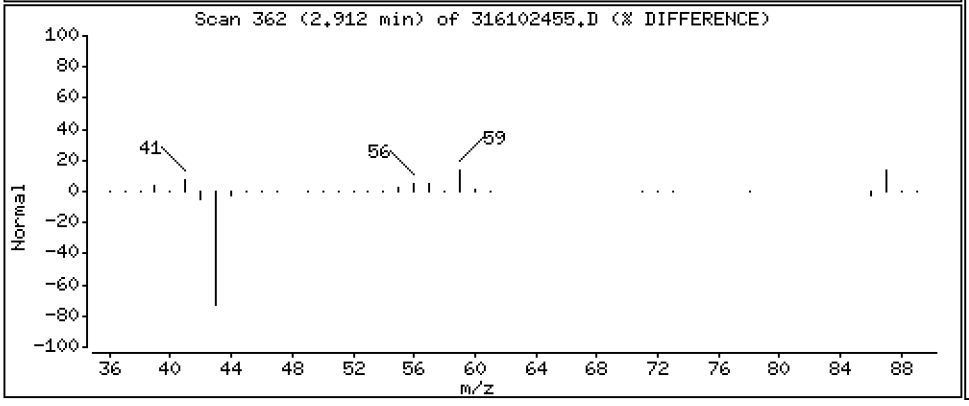












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 38

Date : 25-OCT-2016 00:08

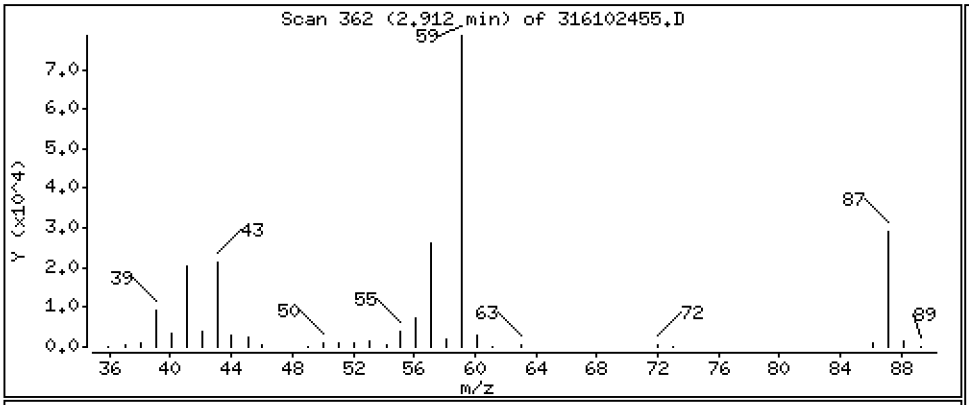
Client ID: Instrument: ms03.i

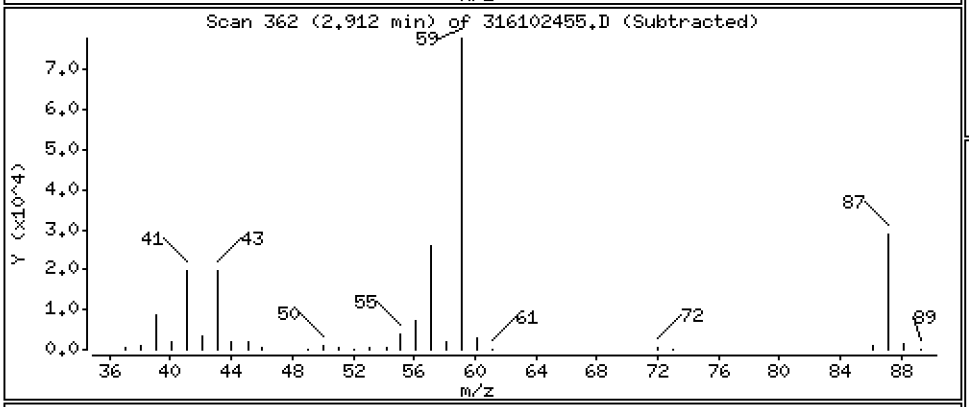
Sample Info: 1235;;1;1;2;;;

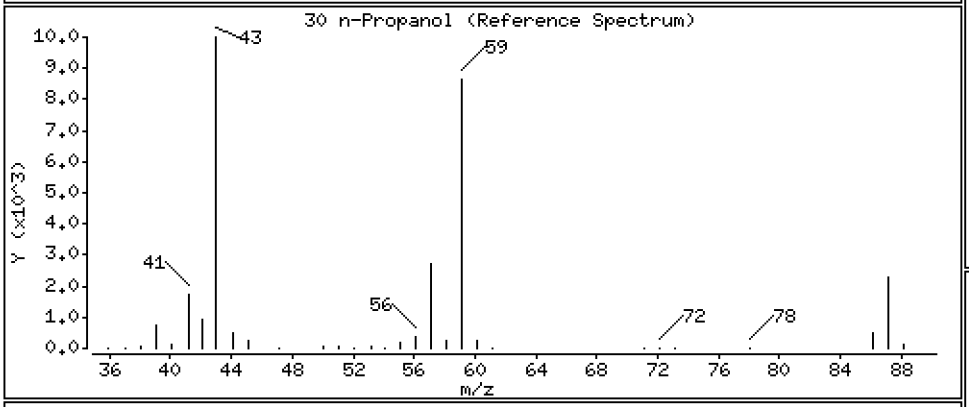
Purge Volume: 5.0 Operator: CJG

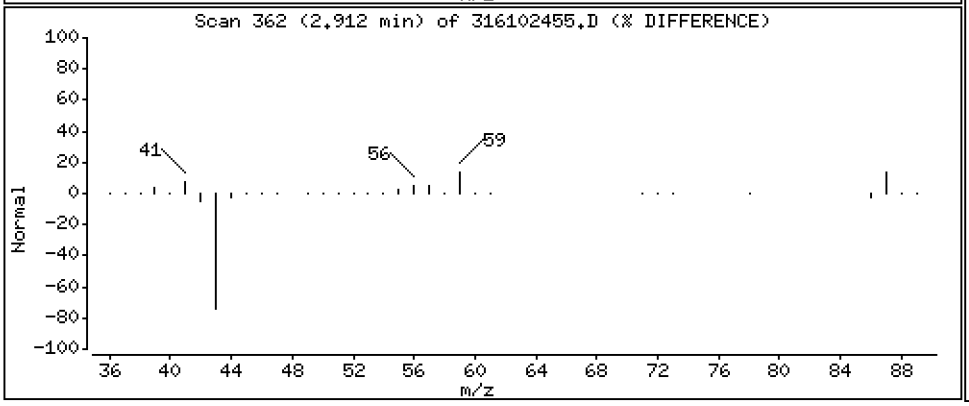
Column phase: DB-VRX Column diameter: 0.25

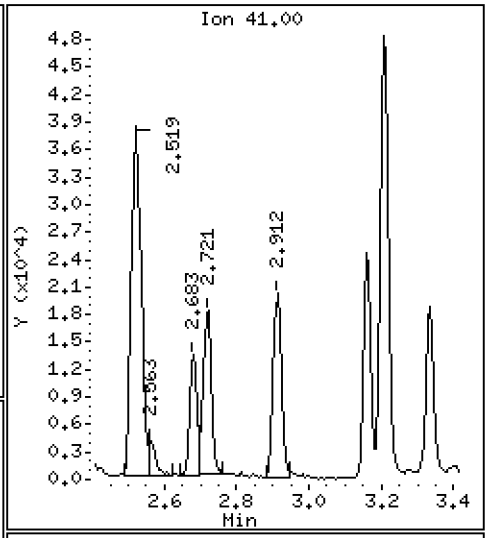
30 n-Propanol Concentration: 53.0785 ug/L

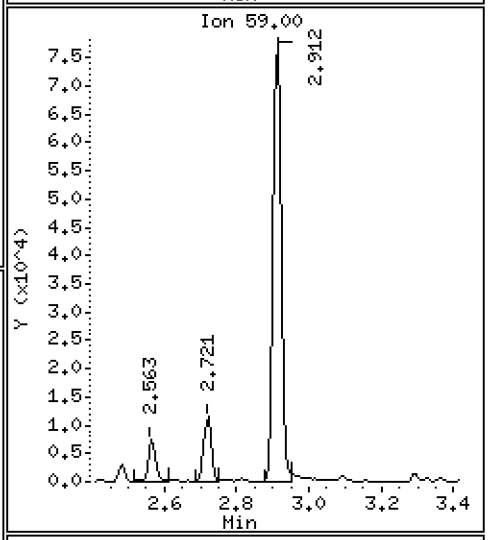


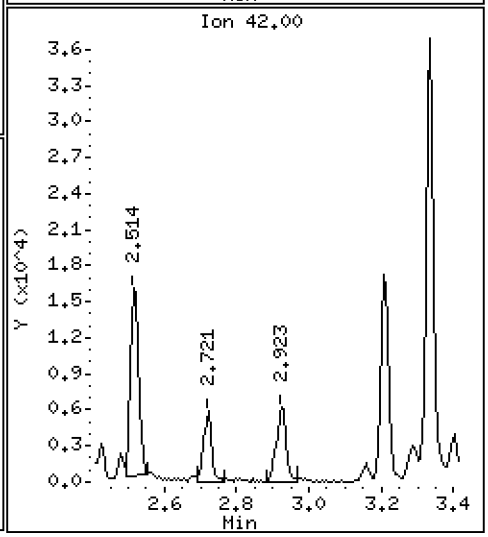












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 39

Date : 25-OCT-2016 00:08

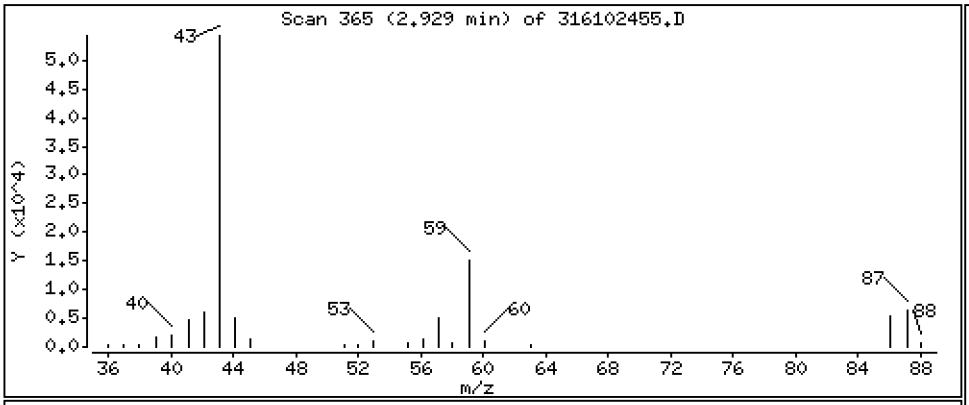
Client ID: Instrument: ms03.i

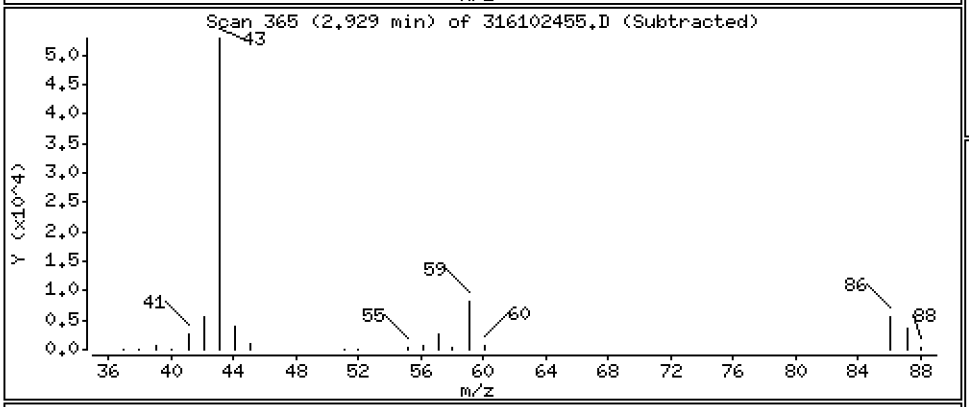
Sample Info: 1235;;1;1;2;;;

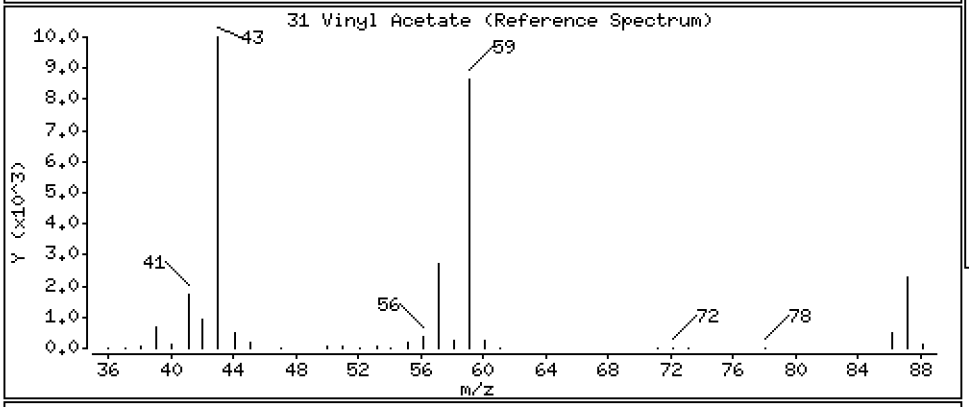
Purge Volume: 5.0 Operator: CJG

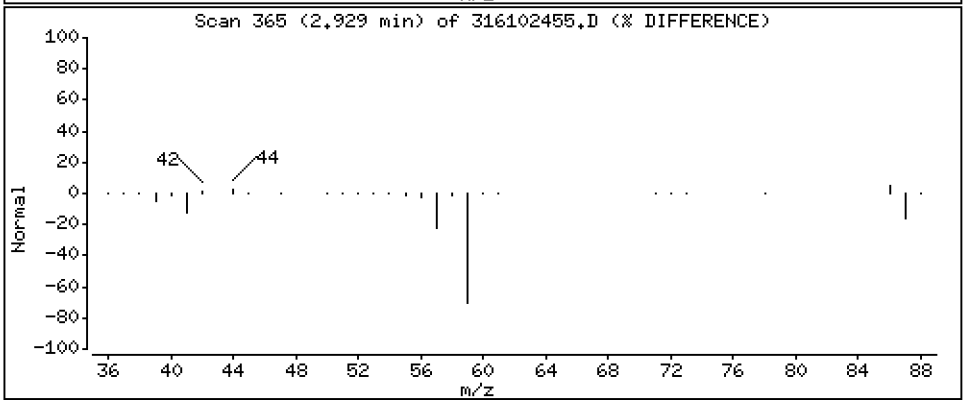
Column phase: DB-VRX Column diameter: 0.25

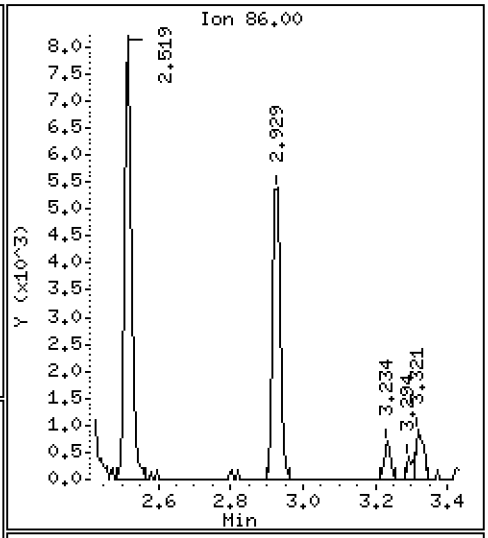
31 Vinyl Acetate Concentration: 4.20841 ug/L

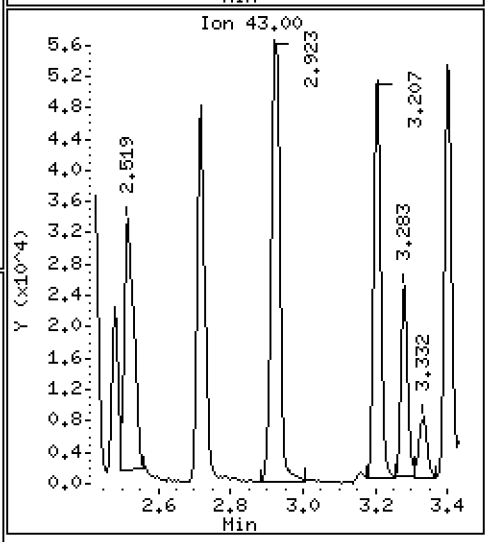












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 40

Date : 25-OCT-2016 00:08

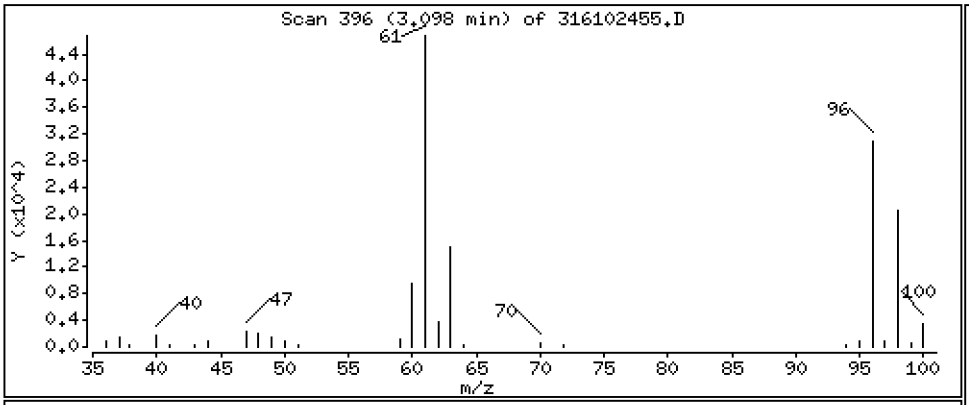
Client ID: Instrument: ms03.i

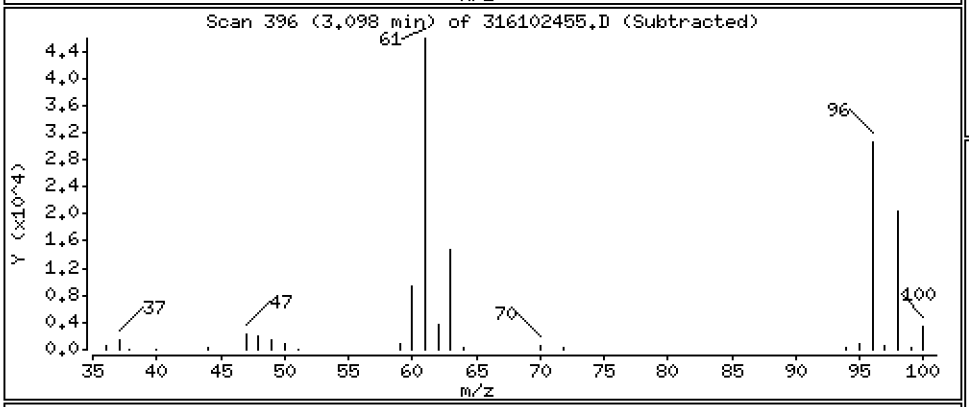
Sample Info: 1235;;1;1;2;;;

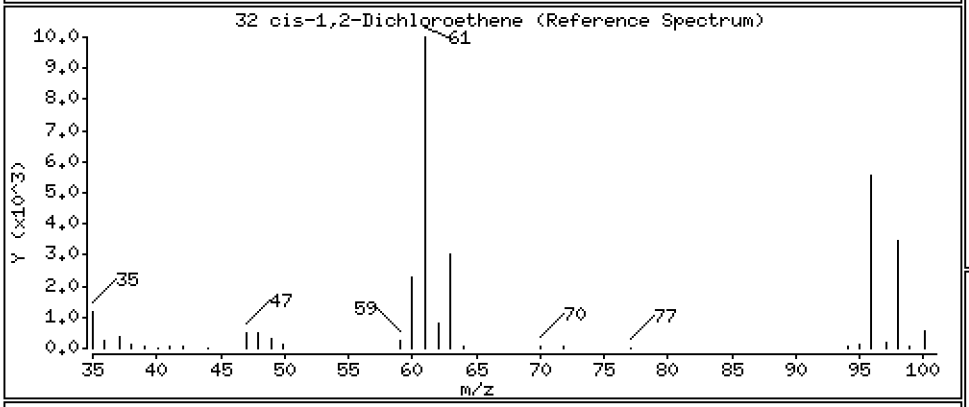
Purge Volume: 5.0 Operator: CJG

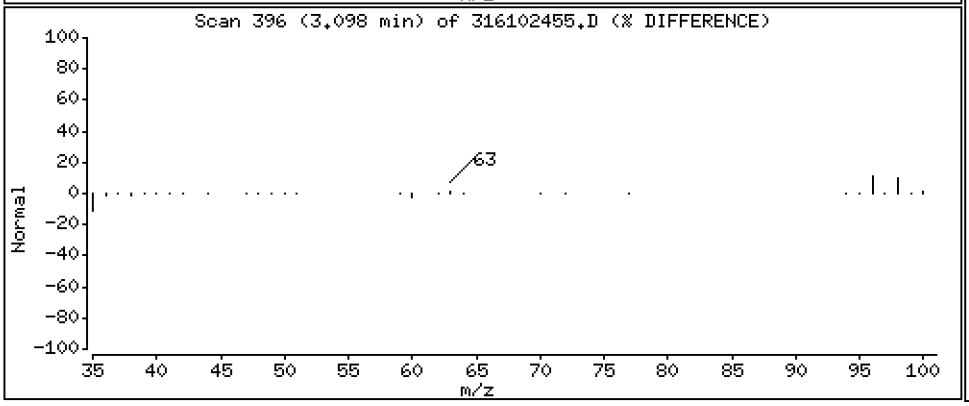
Column phase: DB-VRX Column diameter: 0.25

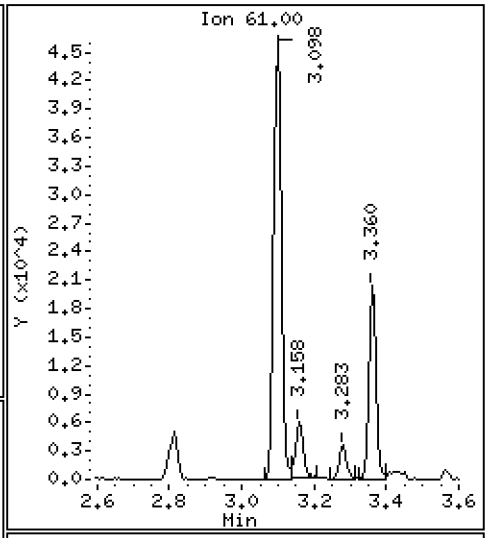
32 cis-1,2-Dichloroethene Concentration: 5.30145 ug/L

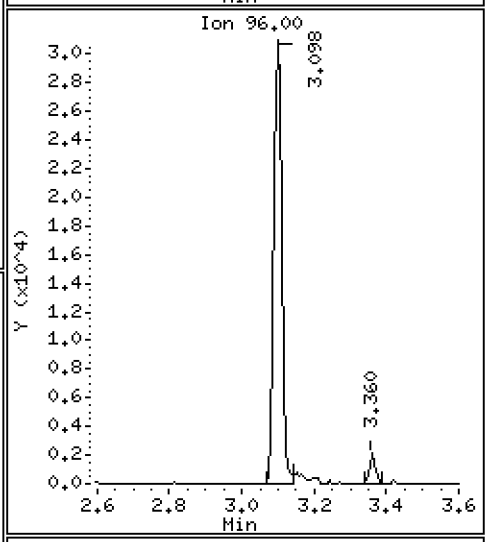


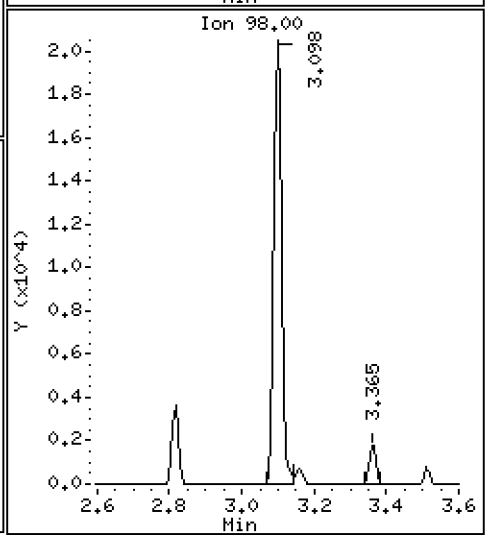












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 41

Date : 25-OCT-2016 00:08

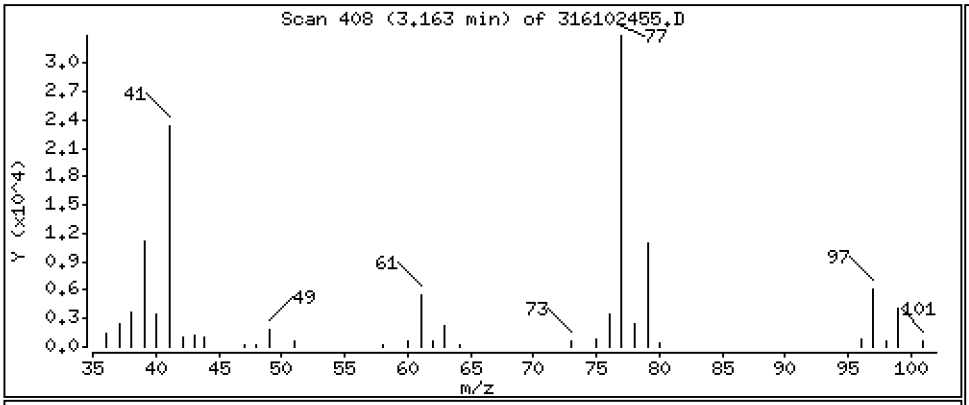
Client ID: Instrument: ms03.i

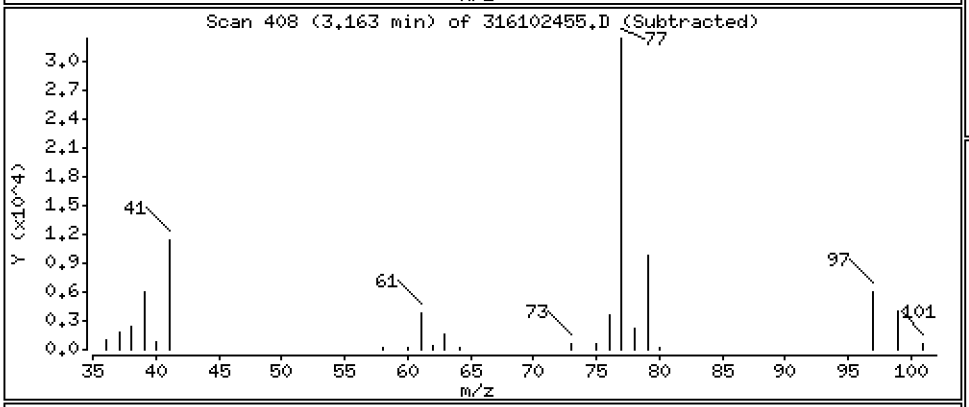
Sample Info: 1235;;1;1;2;;;

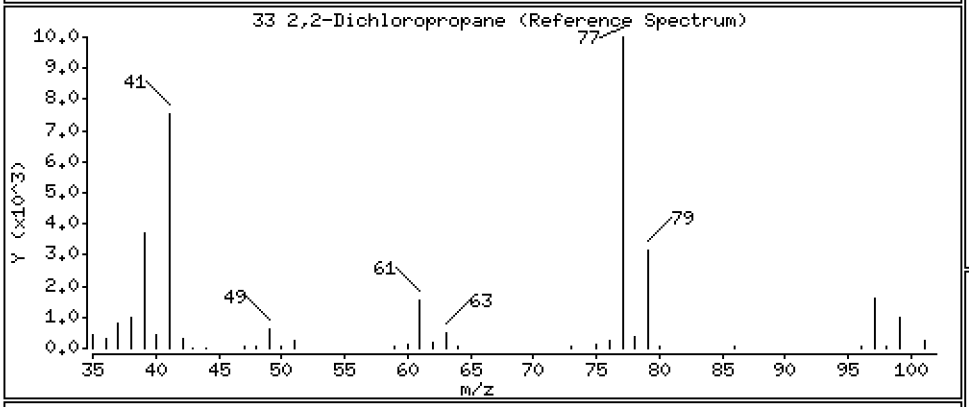
Purge Volume: 5.0 Operator: CJG

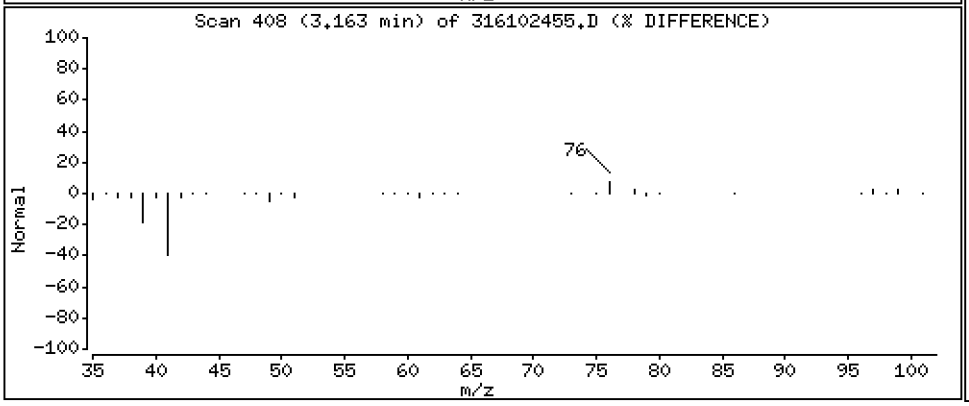
Column phase: DB-VRX Column diameter: 0.25

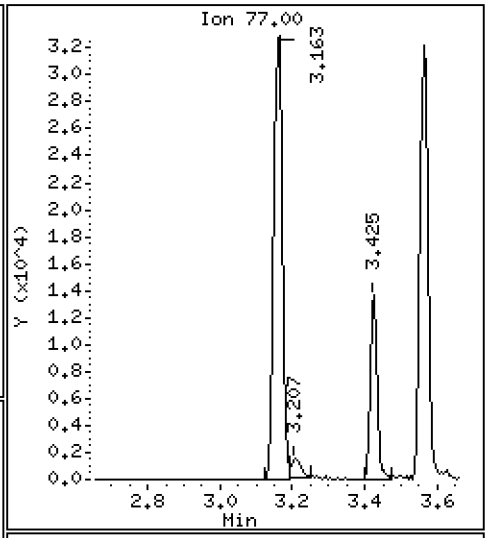
33 2,2-Dichloropropane Concentration: 5.15694 ug/L

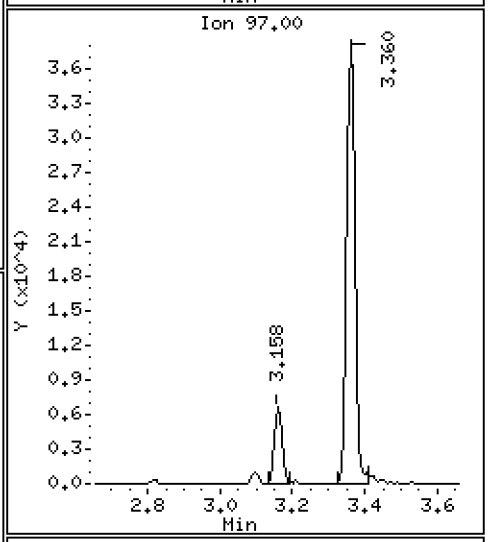


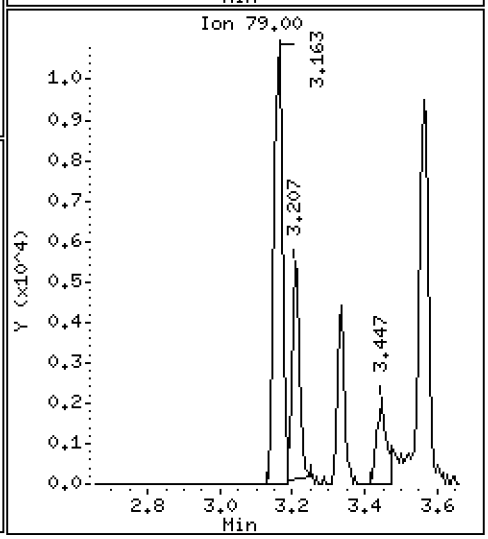












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 42

Date : 25-OCT-2016 00:08

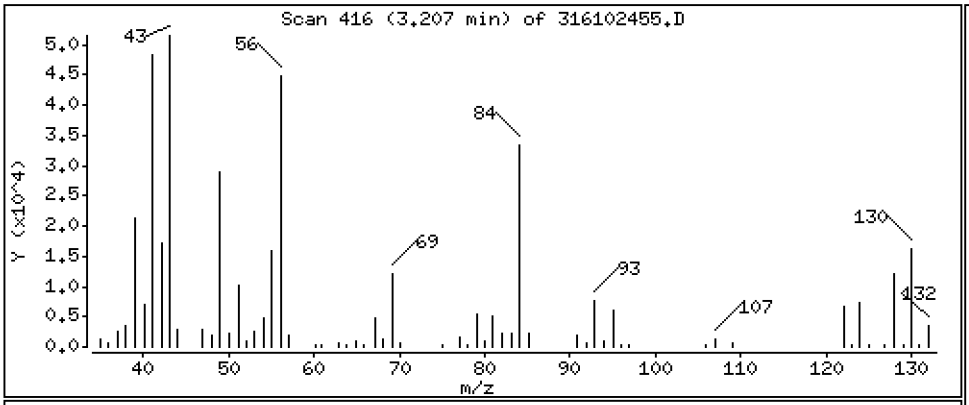
Client ID: Instrument: ms03.i

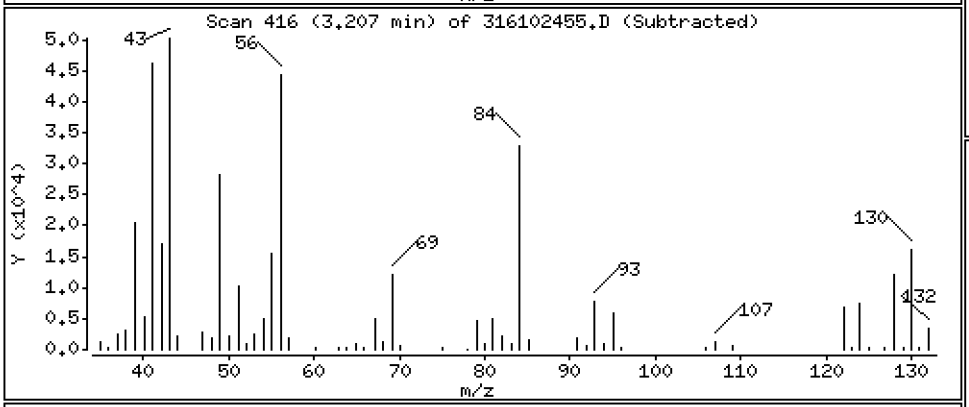
Sample Info: 1235;;1;1;2;;;

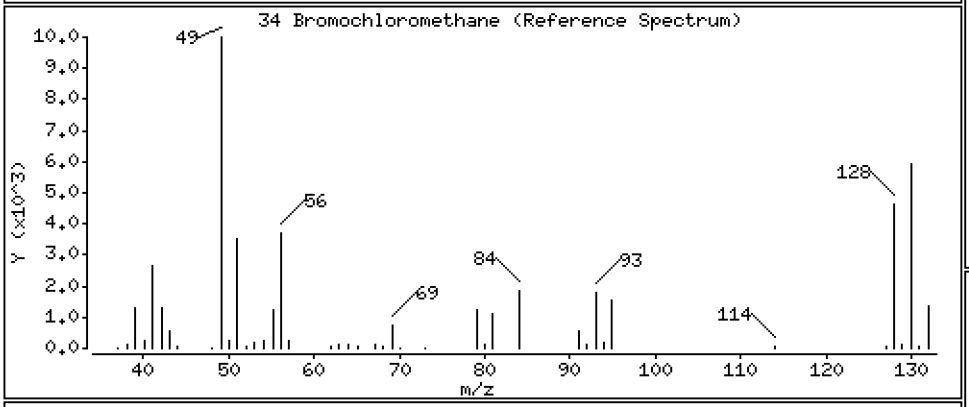
Purge Volume: 5.0 Operator: CJG

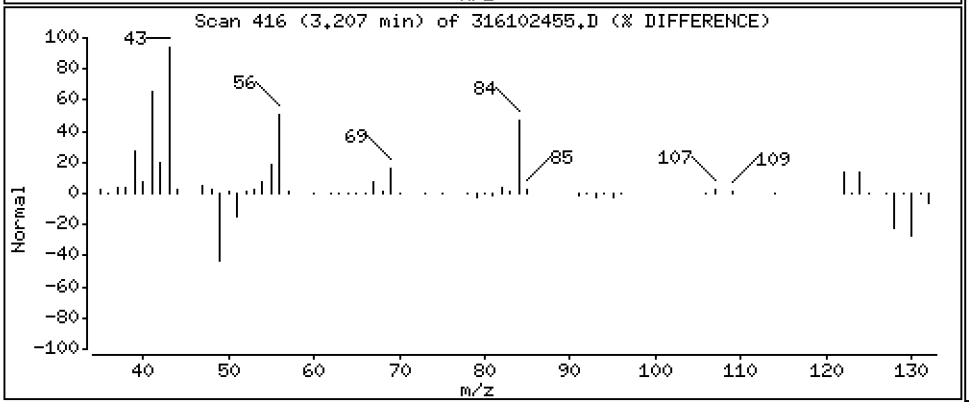
Column phase: DB-VRX Column diameter: 0.25

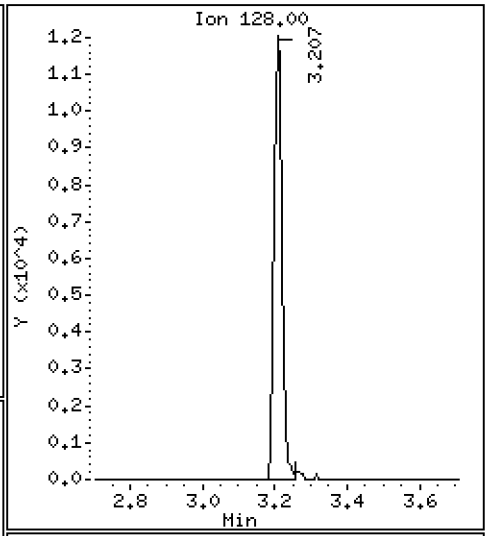
34 Bromochloromethane Concentration: 4.75087 ug/L

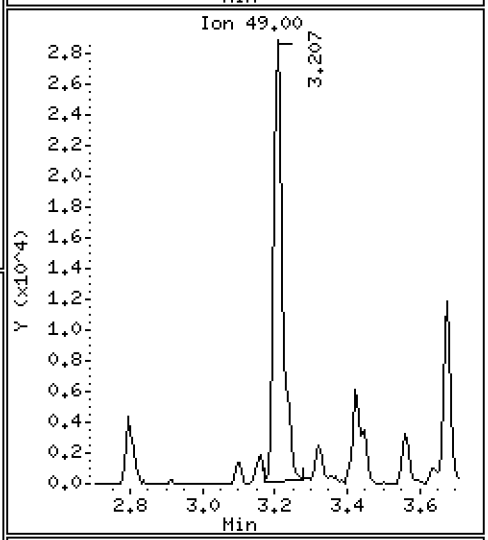


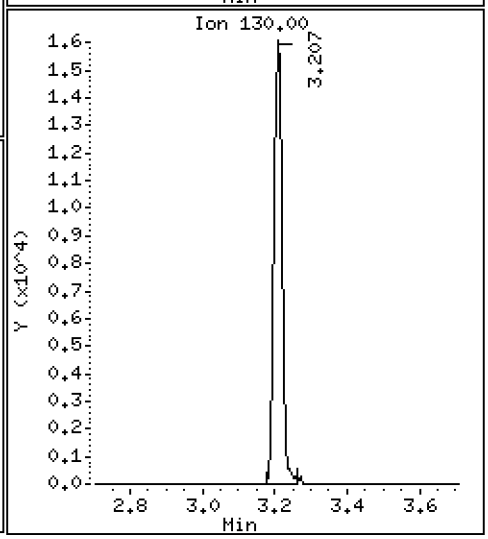












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 43

Date : 25-OCT-2016 00:08

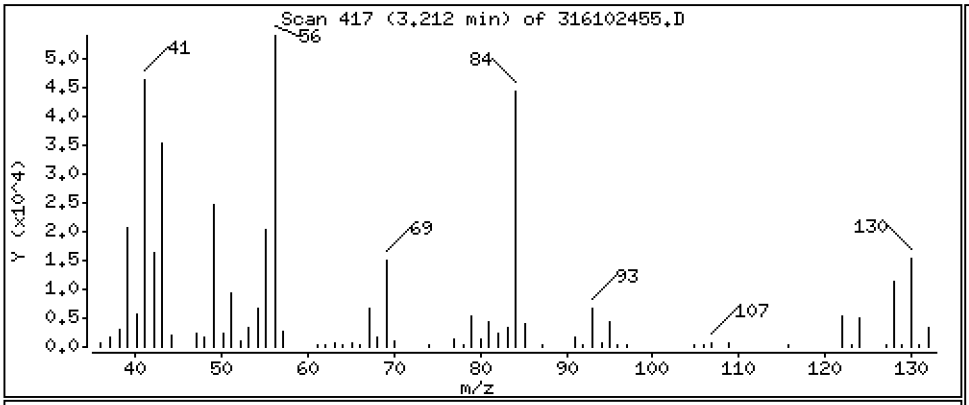
Client ID: Instrument: ms03.i

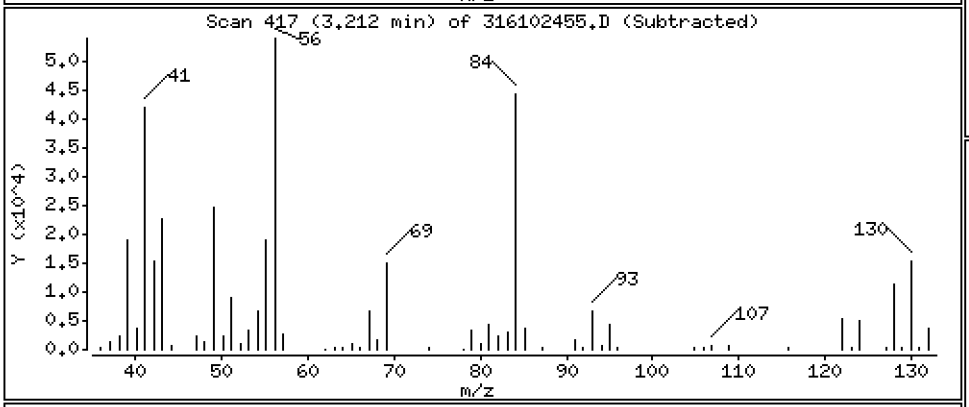
Sample Info: 1235;;1;1;2;;;

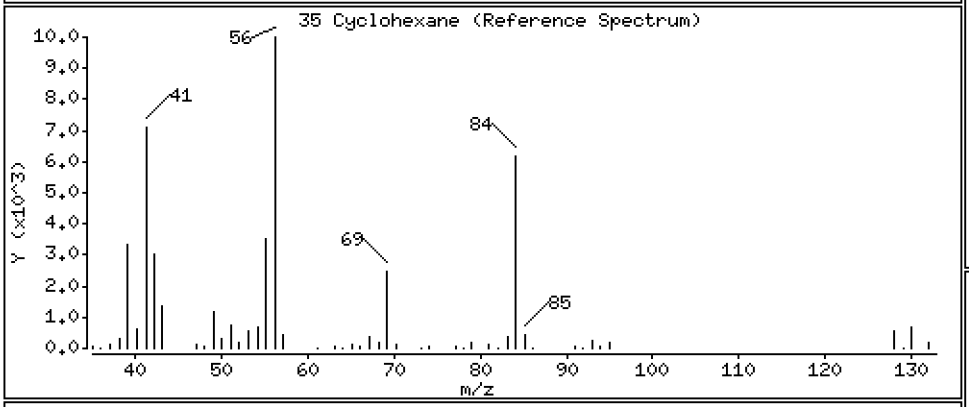
Purge Volume: 5.0 Operator: CJG

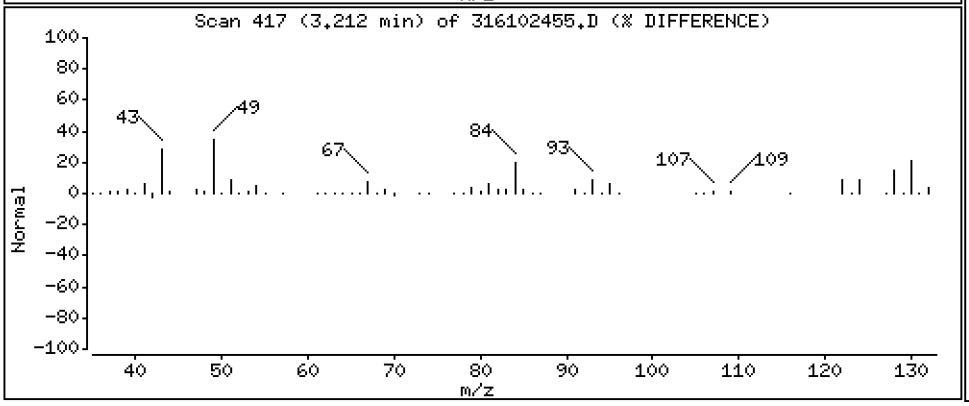
Column phase: DB-VRX Column diameter: 0.25

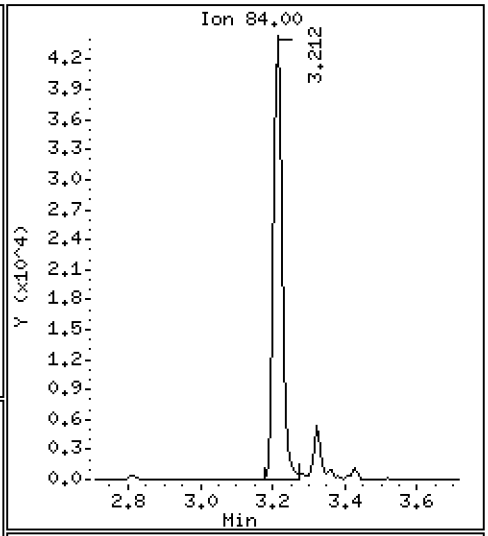
35 Cyclohexane Concentration: 5.99614 ug/L

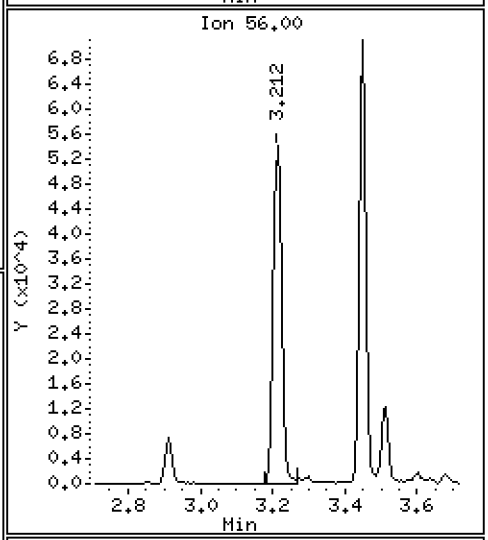


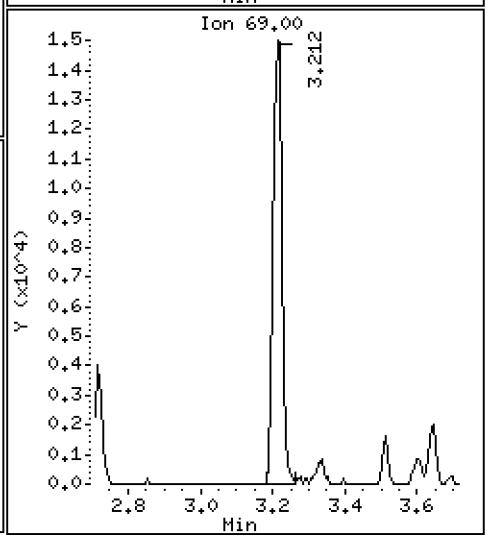












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 44

Date : 25-OCT-2016 00:08

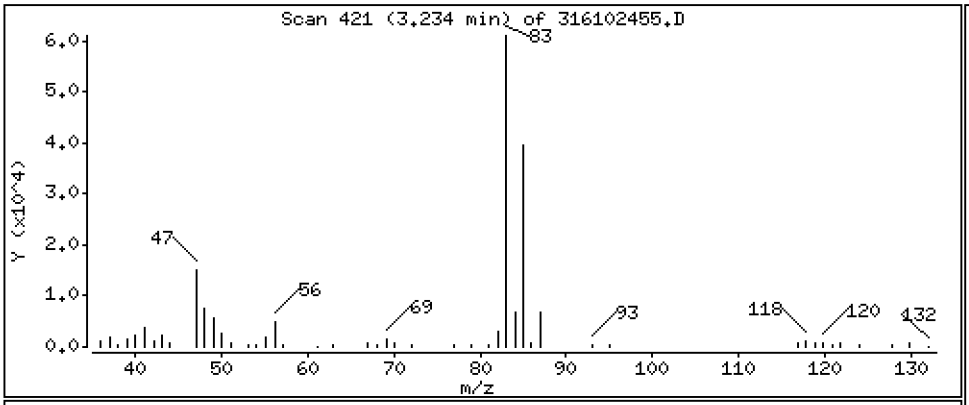
Client ID: Instrument: ms03.i

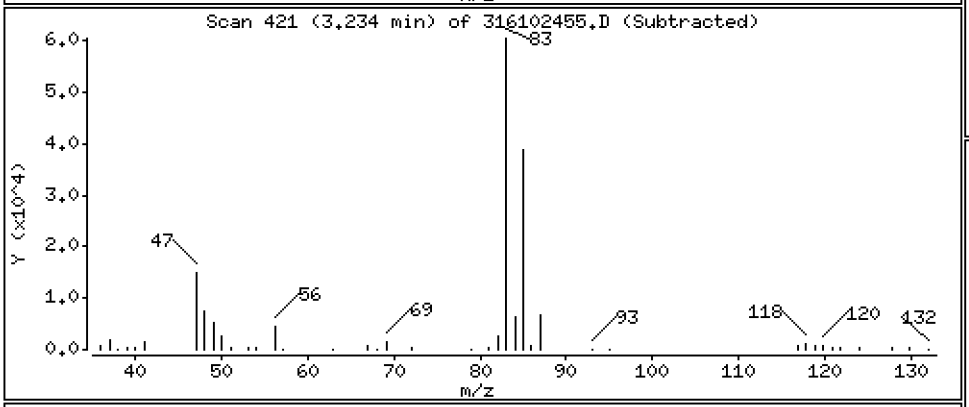
Sample Info: 1235;;1;1;2;;;

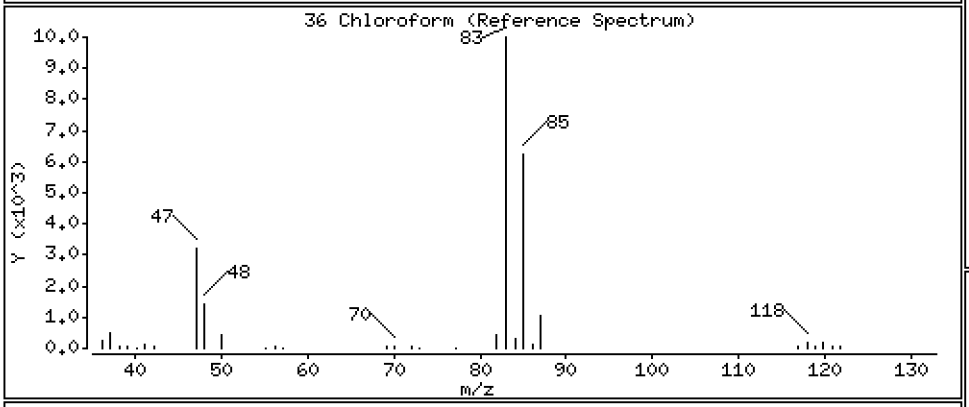
Purge Volume: 5.0 Operator: CJG

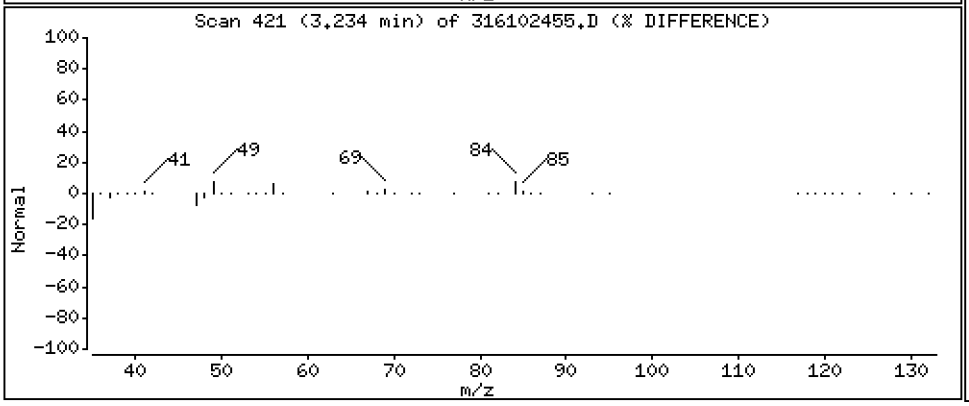
Column phase: DB-VRX Column diameter: 0.25

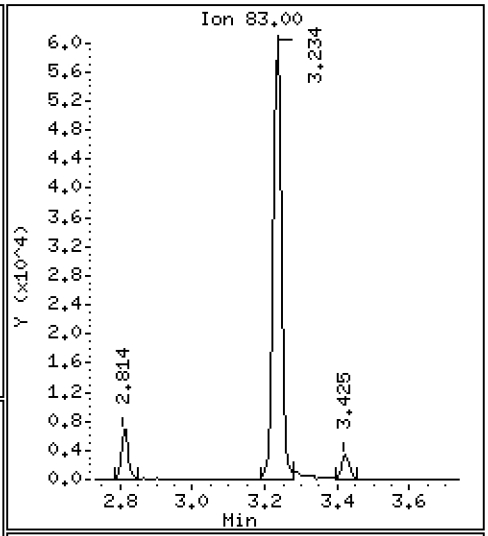
36 Chloroform Concentration: 5.86191 ug/L

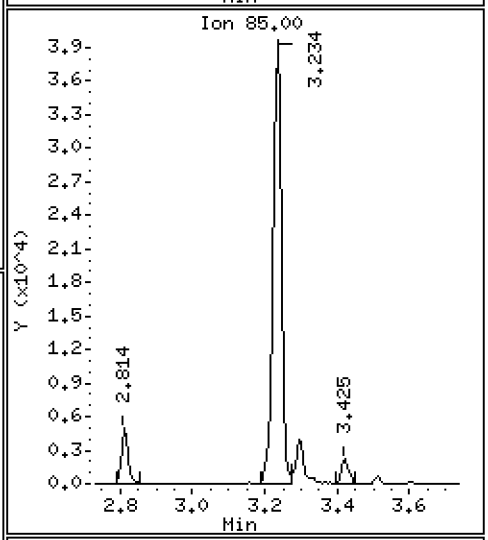


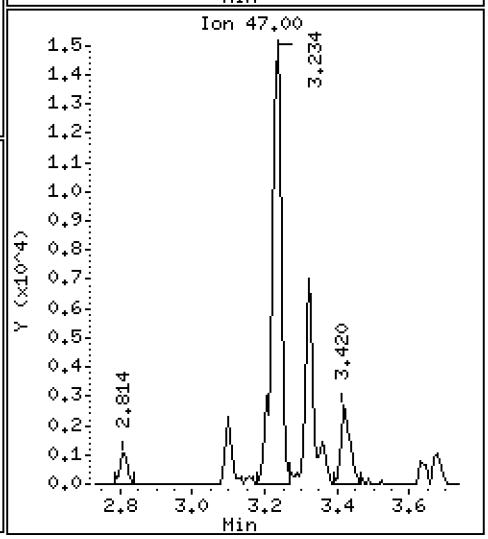












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 45

Date : 25-OCT-2016 00:08

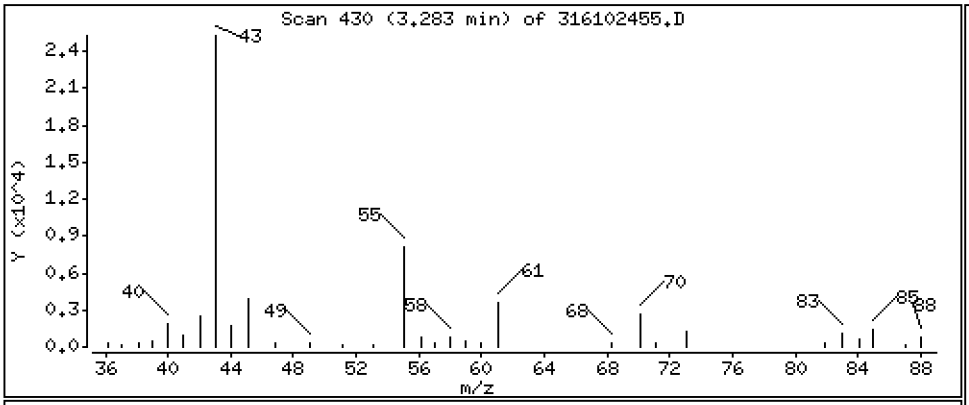
Client ID: Instrument: ms03.i

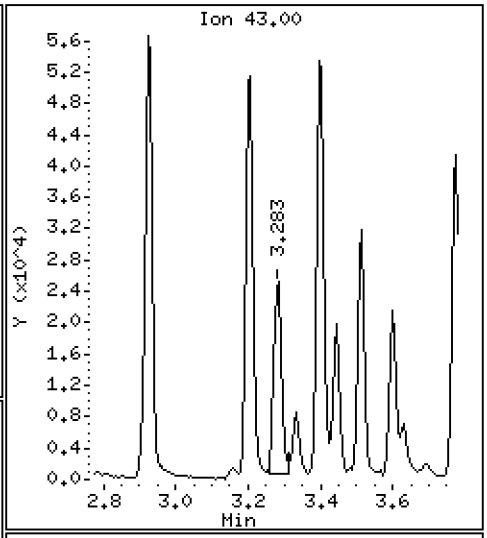
Sample Info: 1235;;1;1;2;;;

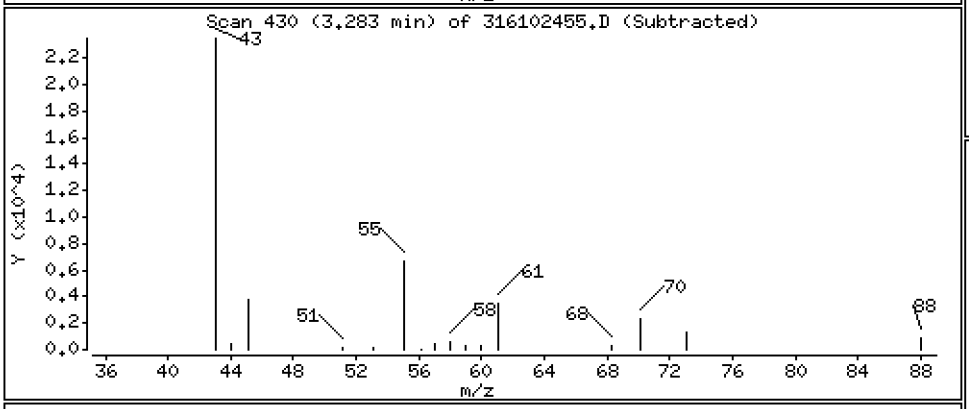
Purge Volume: 5.0 Operator: CJG

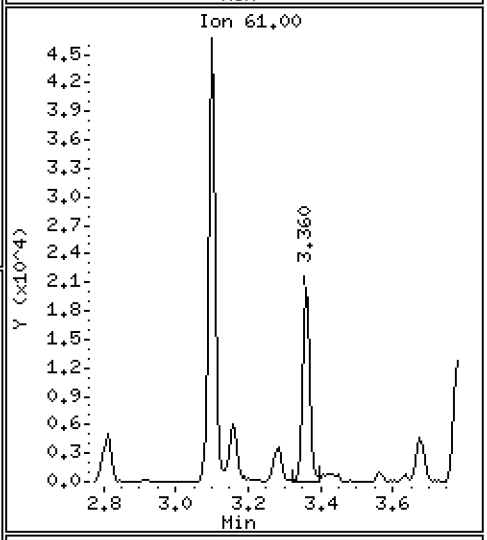
Column phase: DB-VRX Column diameter: 0.25

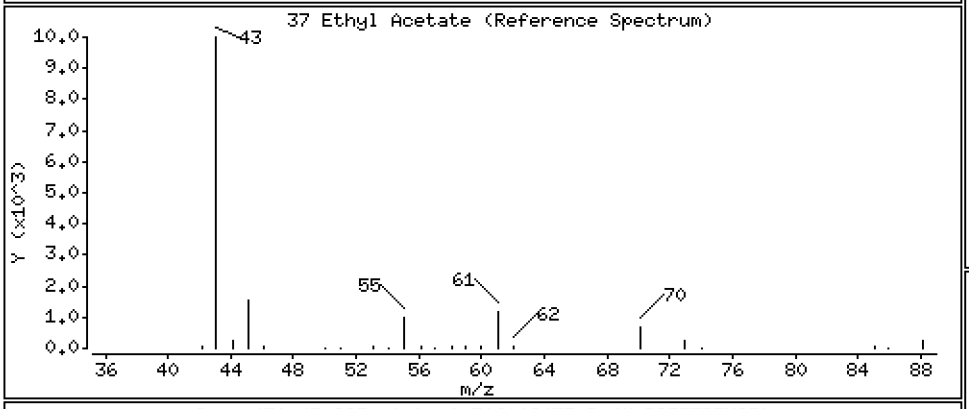
37 Ethyl Acetate Concentration: 4.63601 ug/L

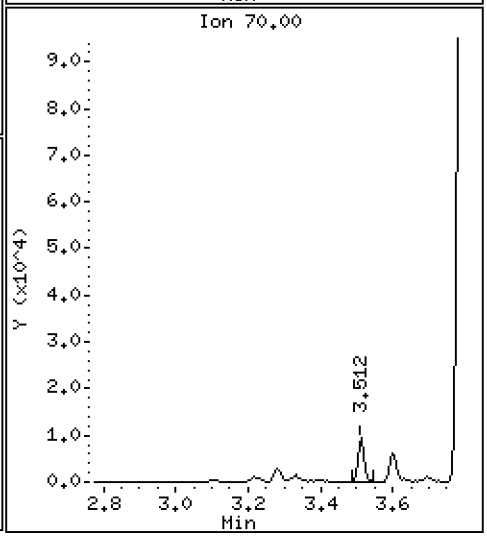


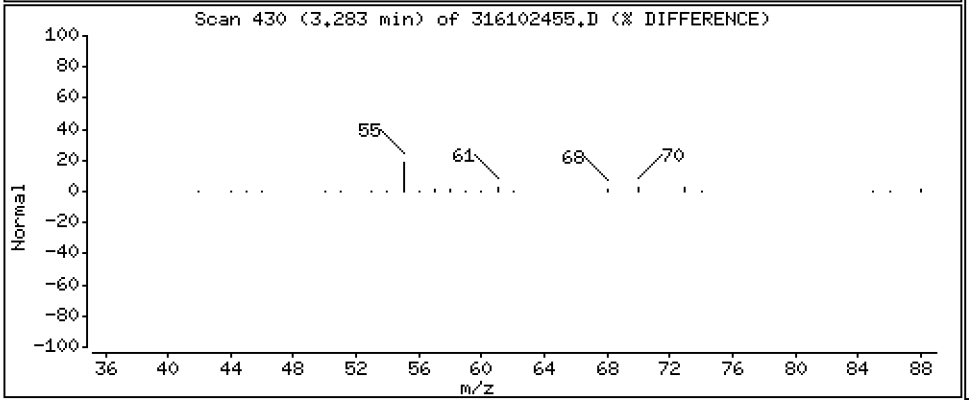












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 46

Date : 25-OCT-2016 00:08

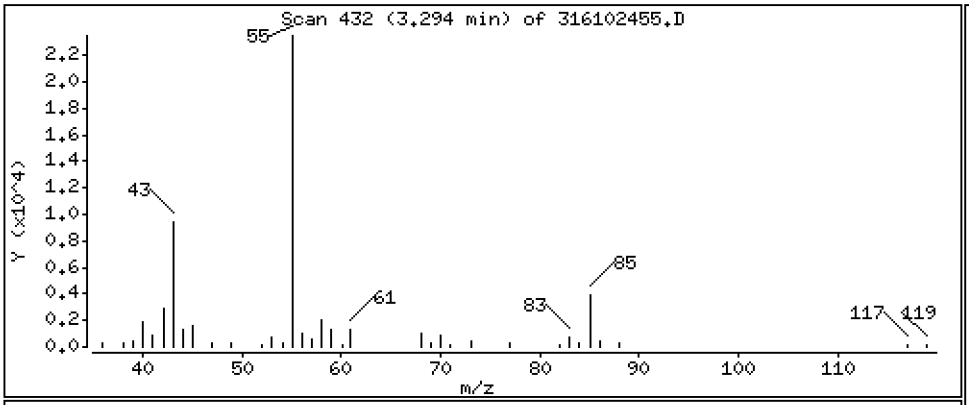
Client ID: Instrument: ms03.i

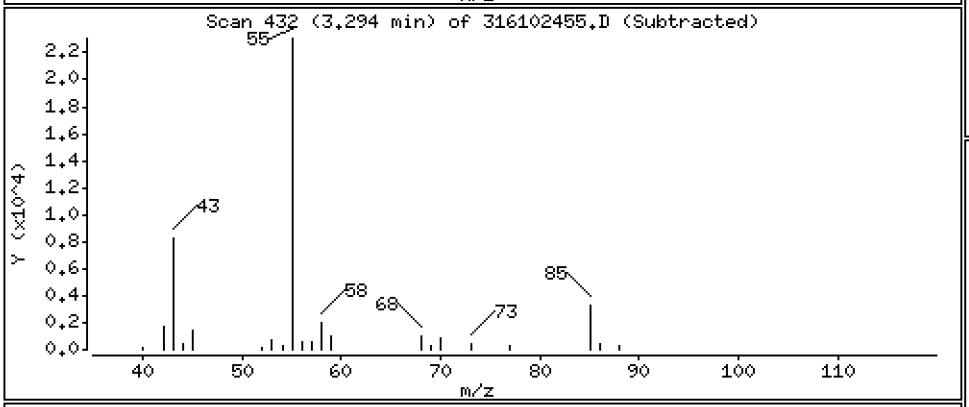
Sample Info: 1235;;1;1;2;;;

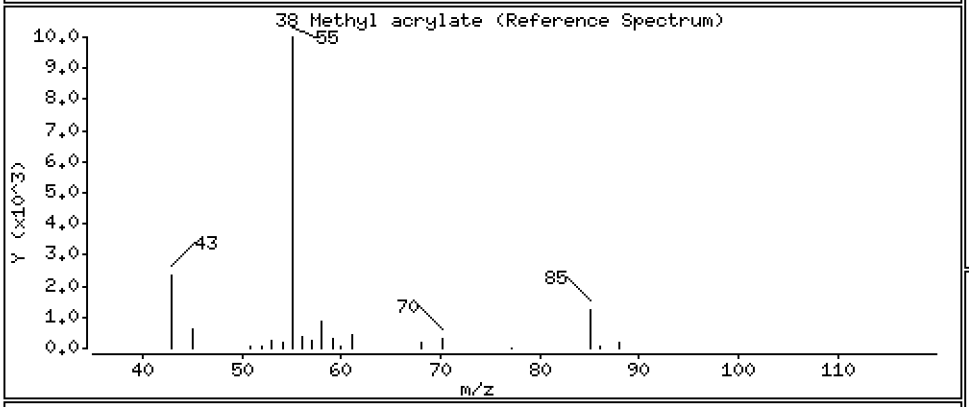
Purge Volume: 5.0 Operator: CJG

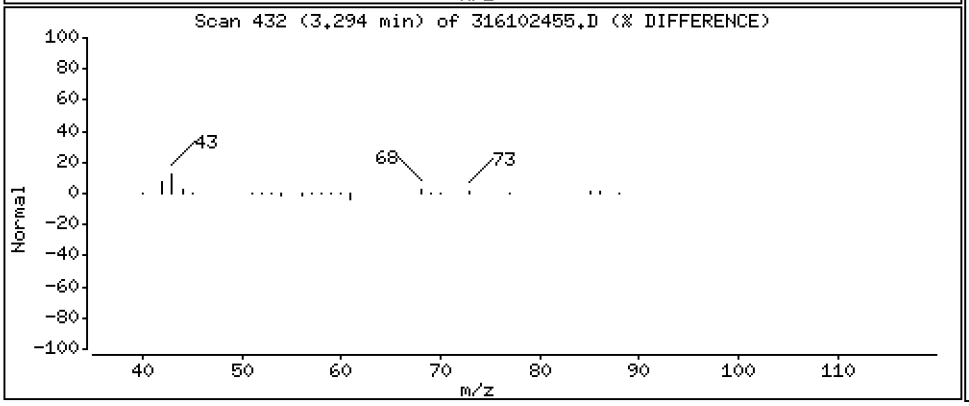
Column phase: DB-VRX Column diameter: 0.25

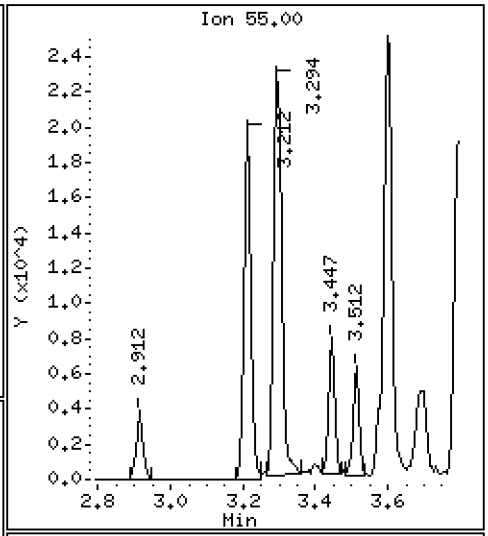
38 Methyl acrylate Concentration: 4.68903 ug/L

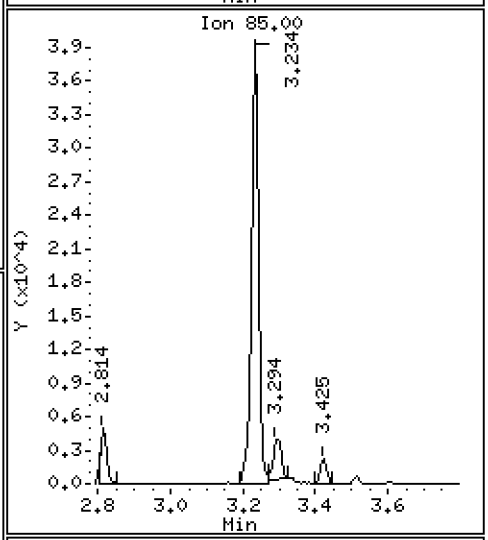


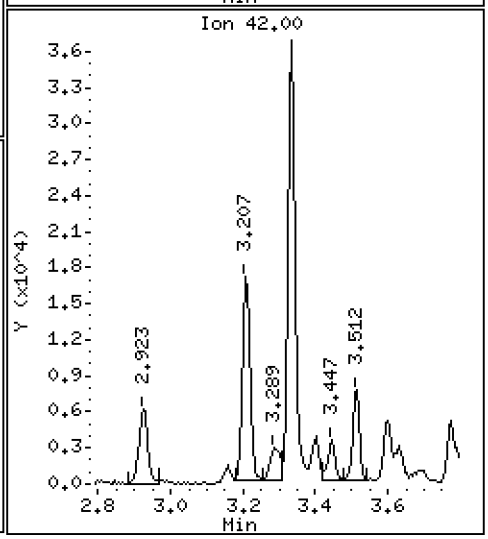












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 47

Date : 25-OCT-2016 00:08

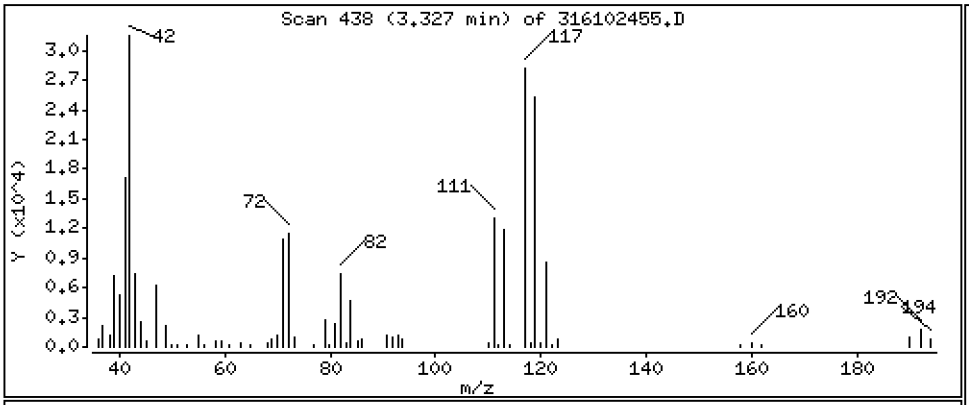
Client ID: Instrument: ms03.i

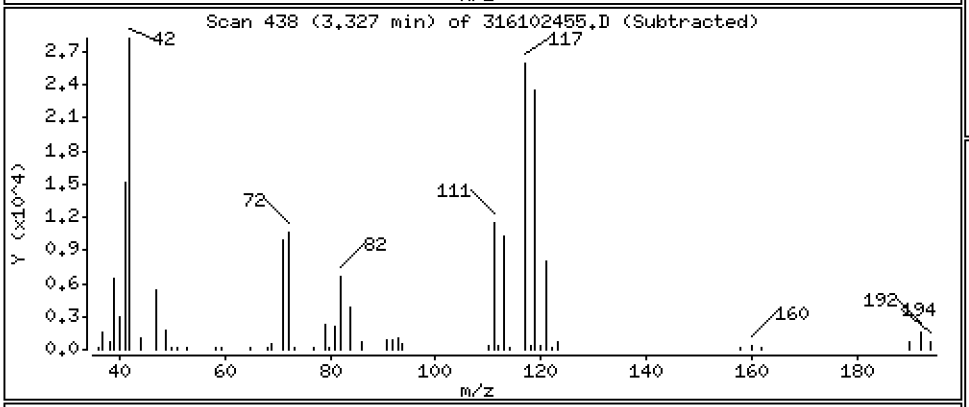
Sample Info: 1235;;1;1;2;;;

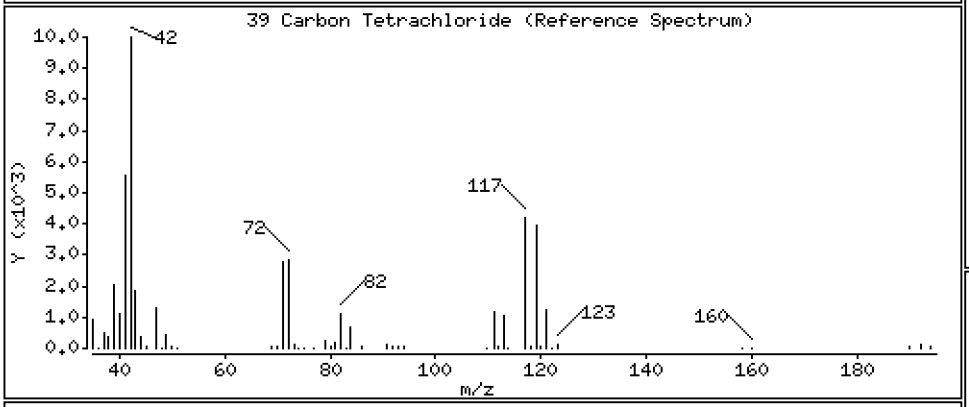
Purge Volume: 5.0 Operator: CJG

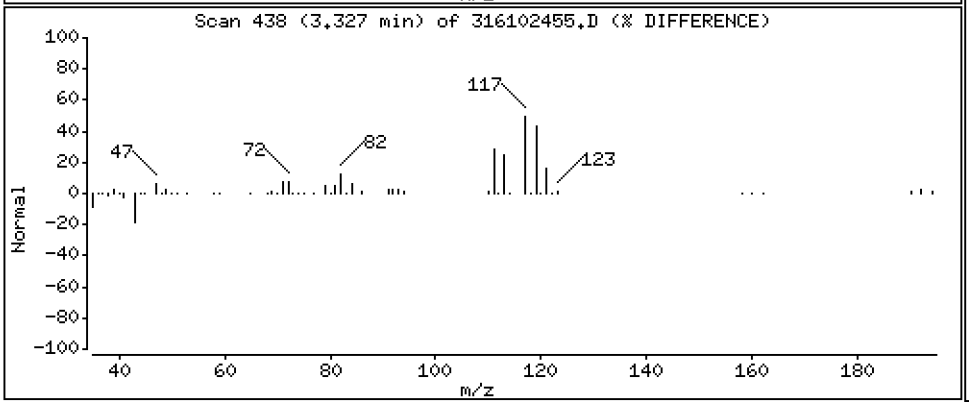
Column phase: DB-VRX Column diameter: 0.25

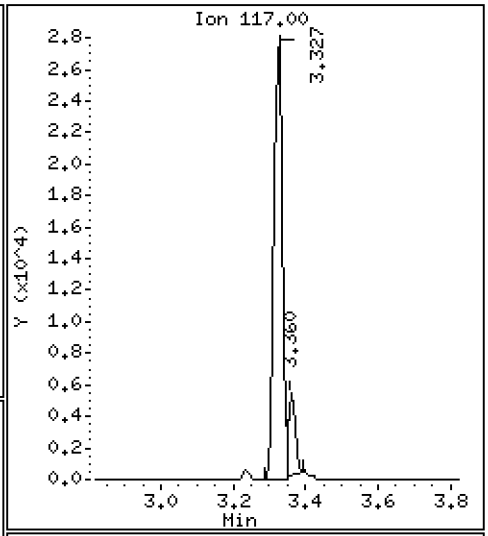
39 Carbon Tetrachloride Concentration: 5.32435 ug/L

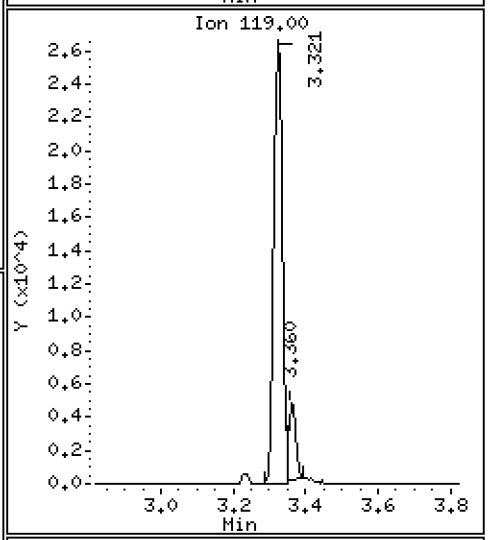


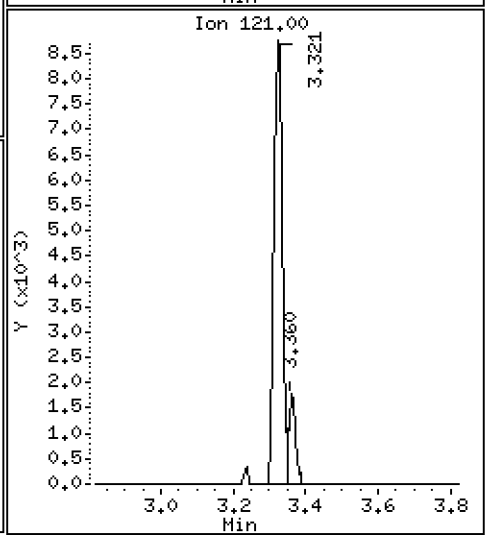












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 48

Date : 25-OCT-2016 00:08

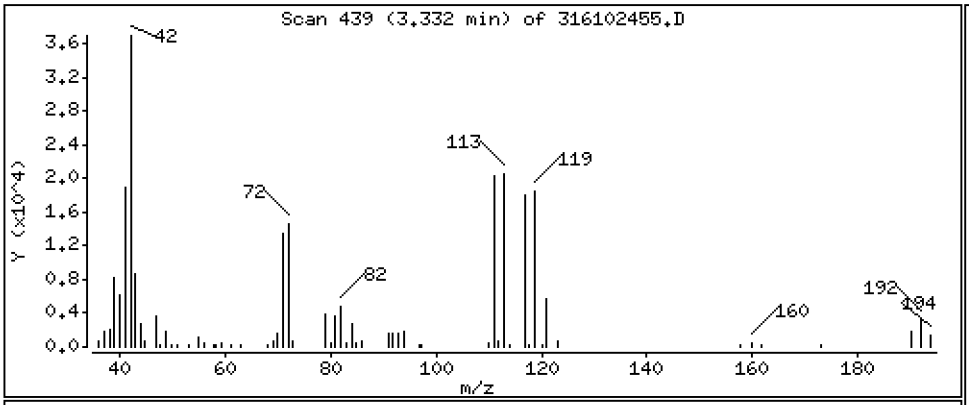
Client ID: Instrument: ms03.i

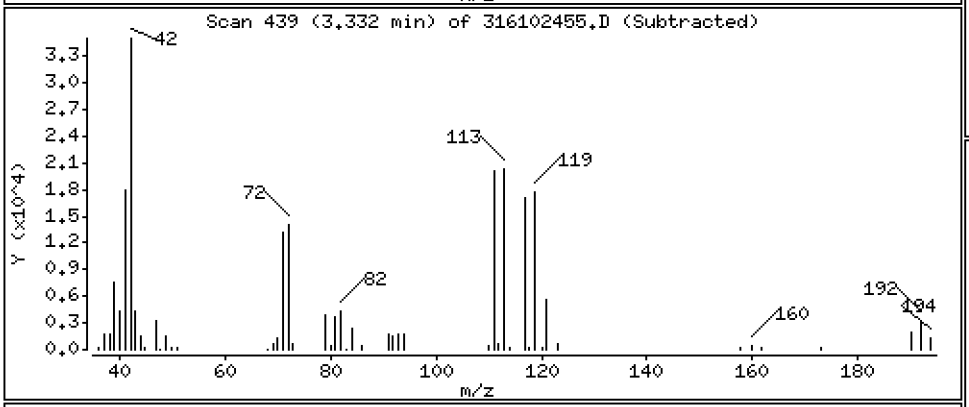
Sample Info: 1235;;1;1;2;;;

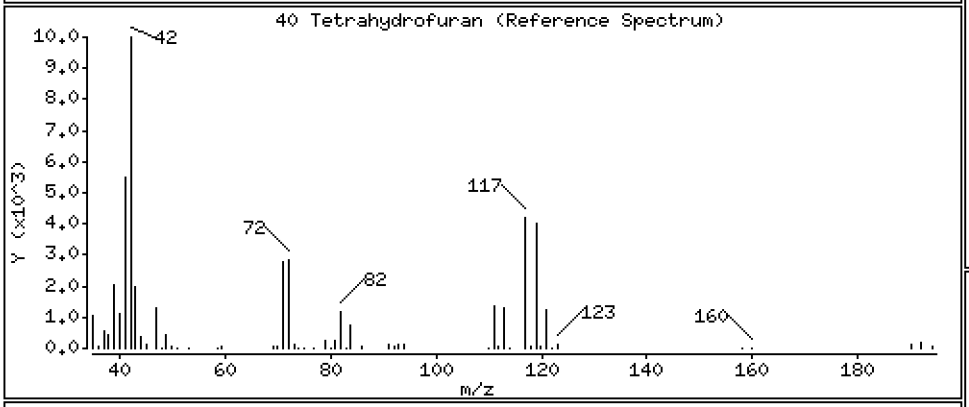
Purge Volume: 5.0 Operator: CJG

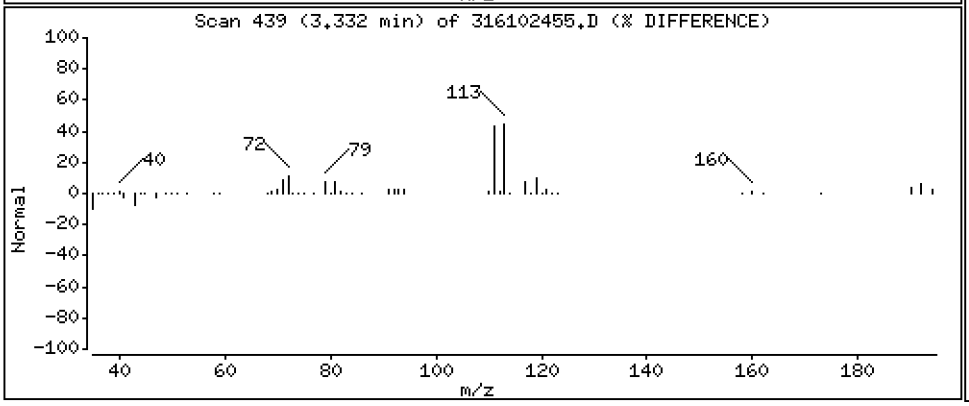
Column phase: DB-VRX Column diameter: 0.25

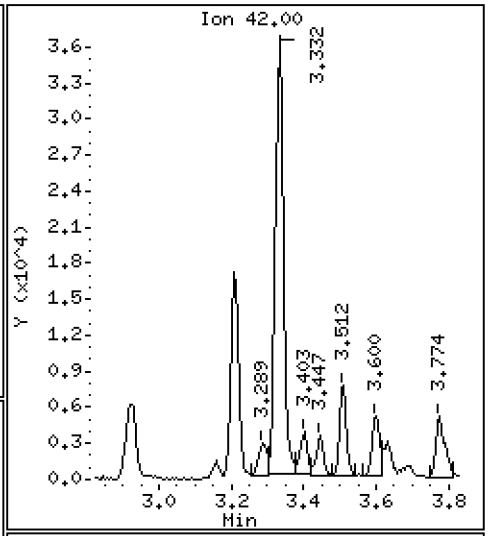
40 Tetrahydrofuran Concentration: 24.4943 ug/L

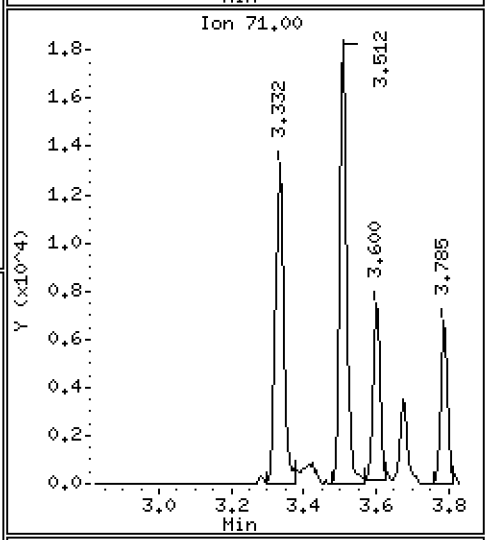


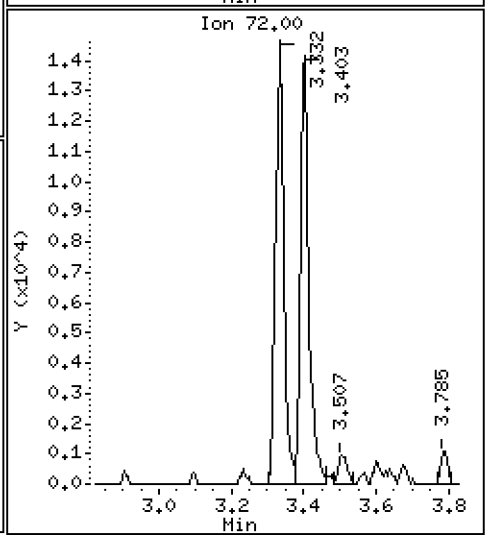












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 49

Date : 25-OCT-2016 00:08

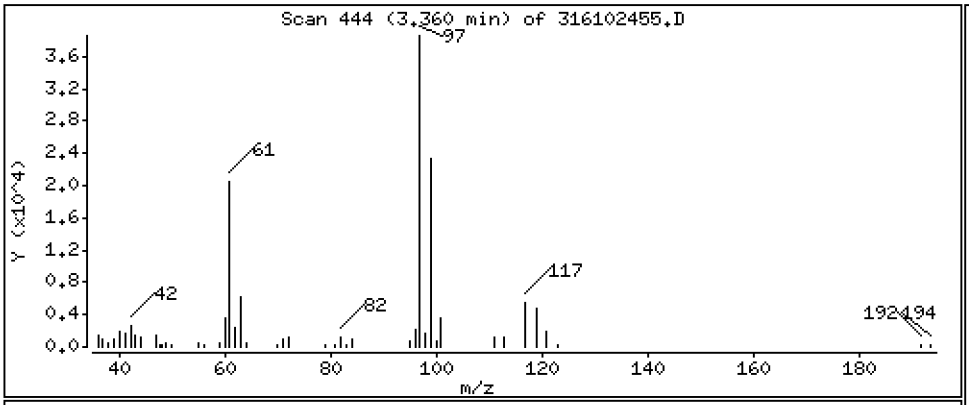
Client ID: Instrument: ms03.i

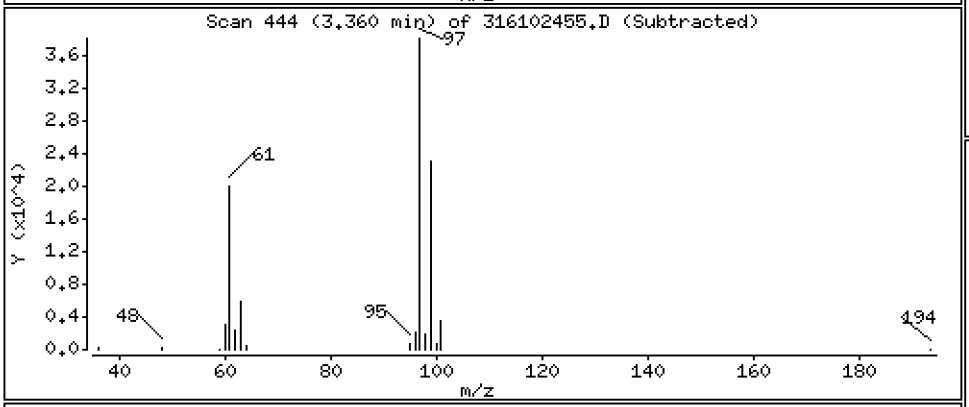
Sample Info: 1235;;1;1;2;;;

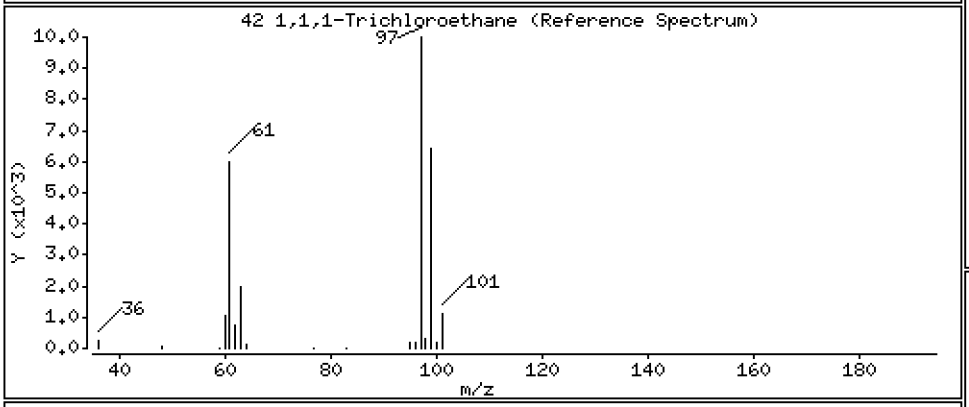
Purge Volume: 5.0 Operator: CJG

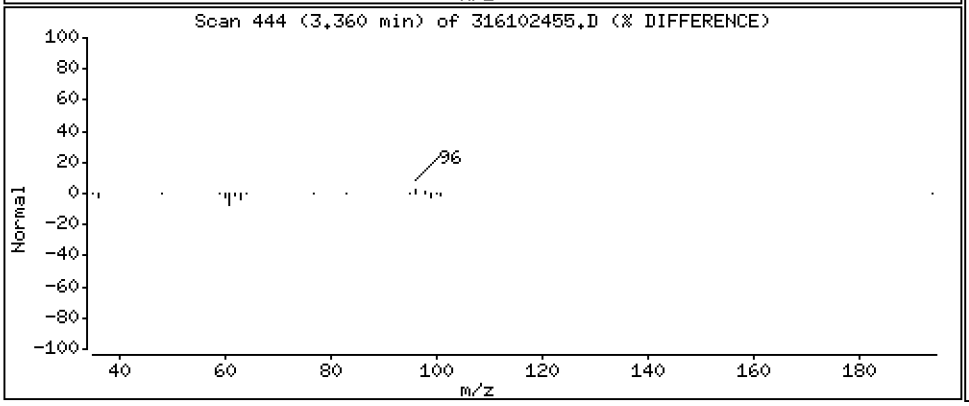
Column phase: DB-VRX Column diameter: 0.25

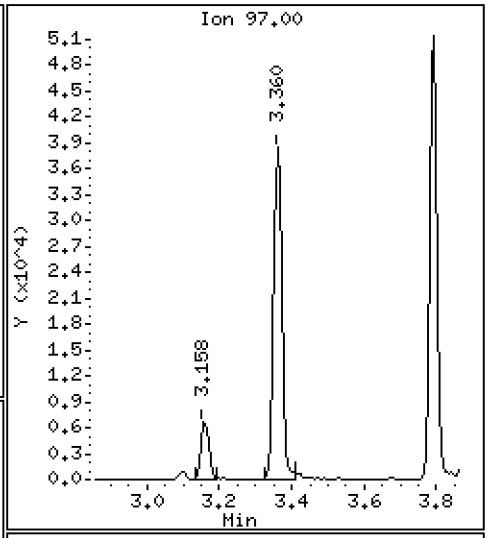
42 1,1,1-Trichloroethane Concentration: 5.16873 ug/L

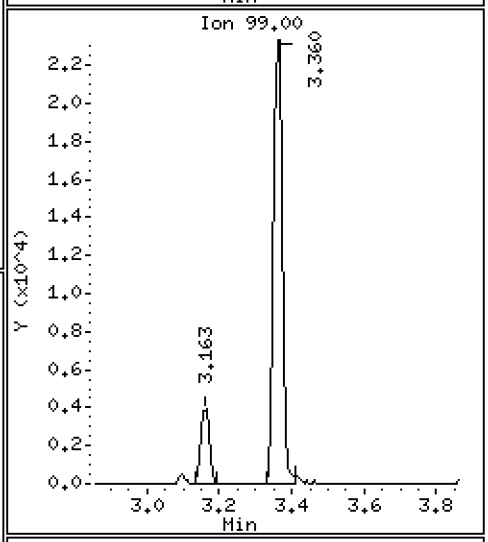


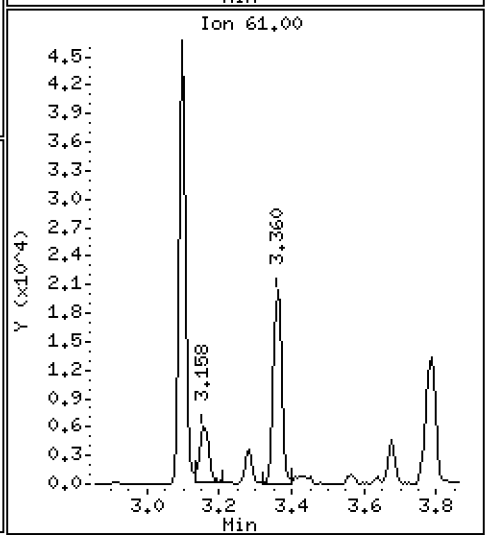












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 50

Date : 25-OCT-2016 00:08

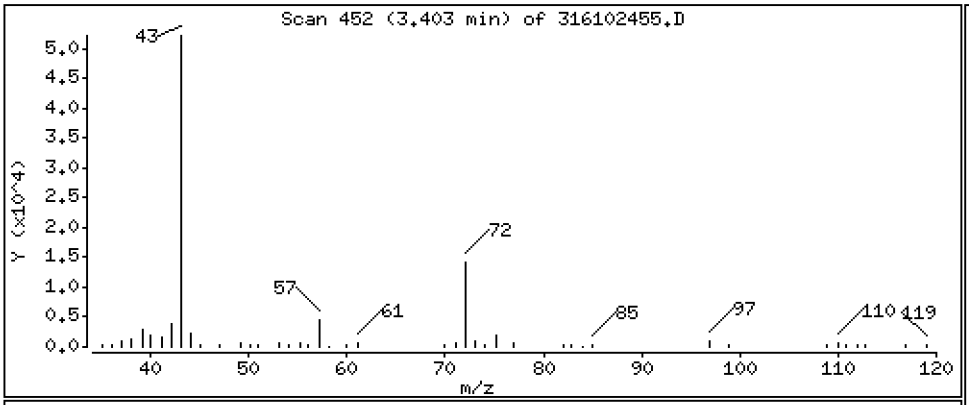
Client ID: Instrument: ms03.i

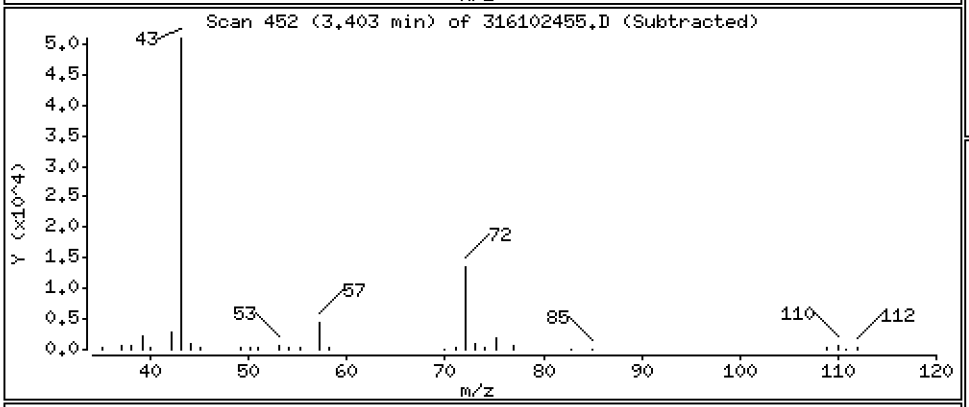
Sample Info: 1235;;1;1;2;;;

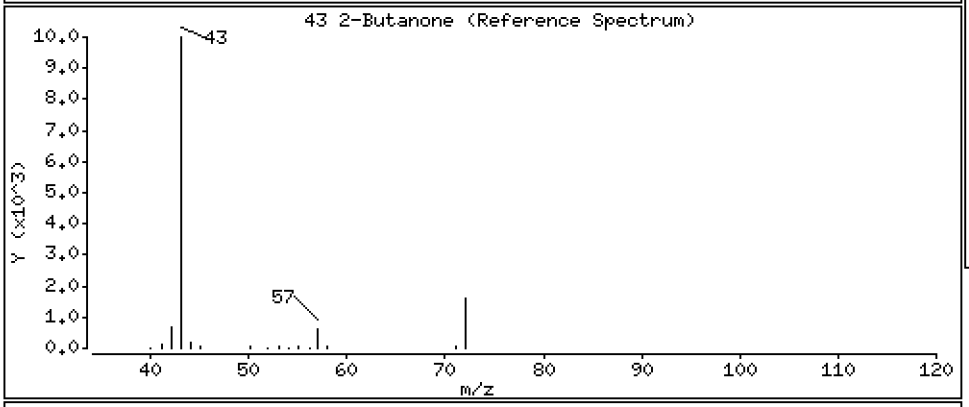
Purge Volume: 5.0 Operator: CJG

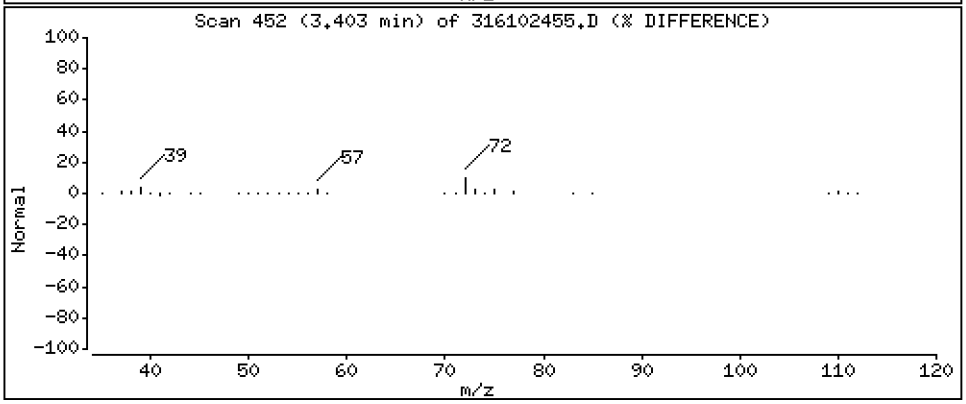
Column phase: DB-VRX Column diameter: 0.25

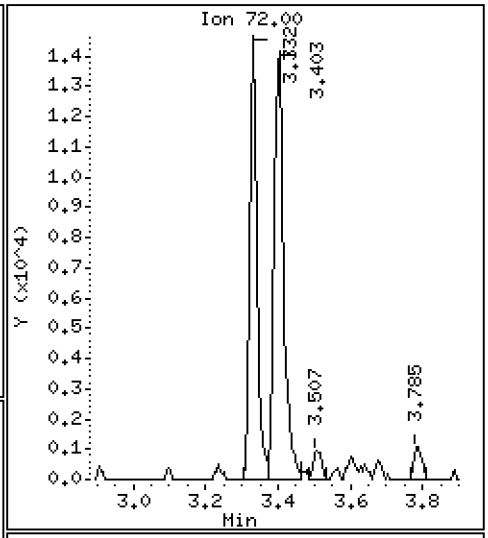
43 2-Butanone Concentration: 26.6274 ug/L

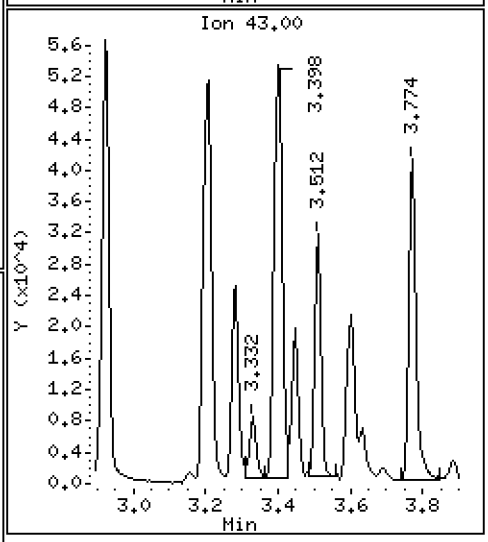












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 51

Date : 25-OCT-2016 00:08

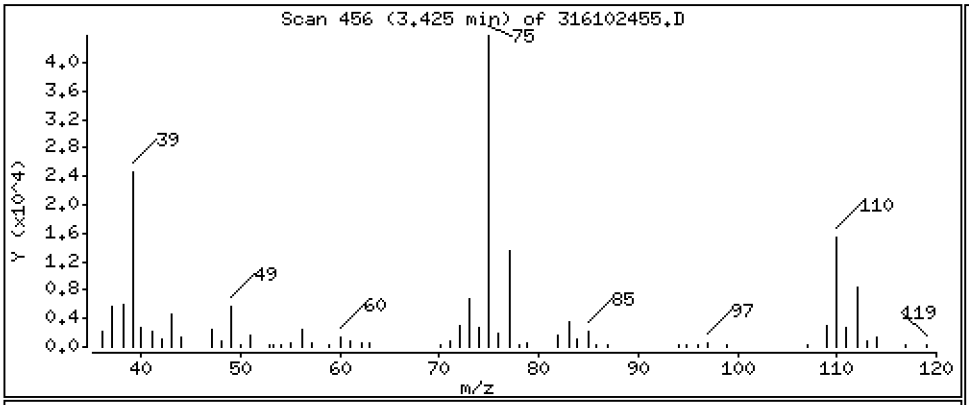
Client ID: Instrument: ms03.i

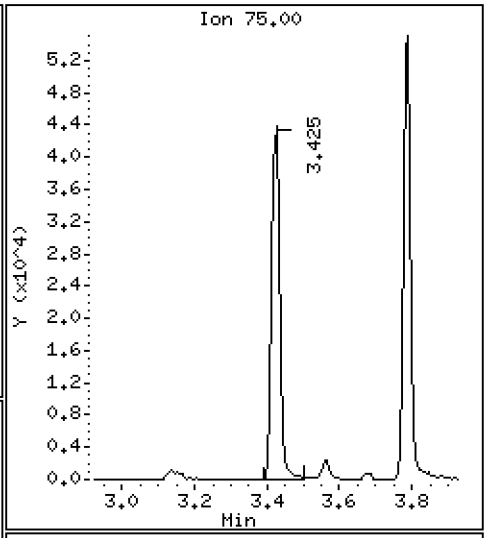
Sample Info: 1235;;1;1;2;;;

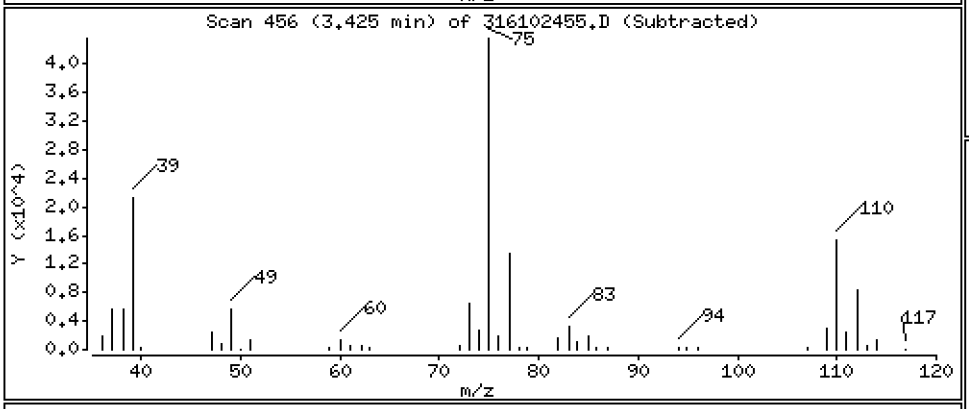
Purge Volume: 5.0 Operator: CJG

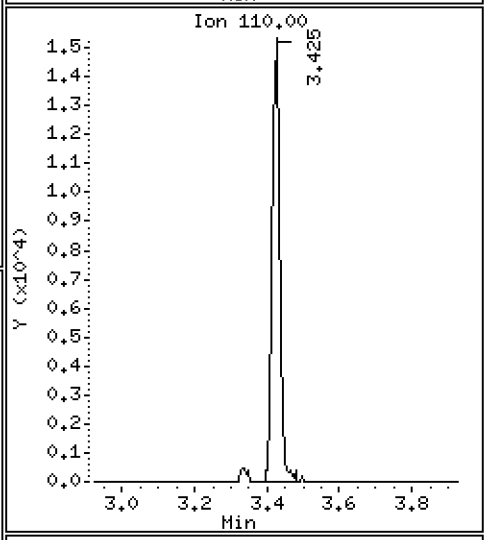
Column phase: DB-VRX Column diameter: 0.25

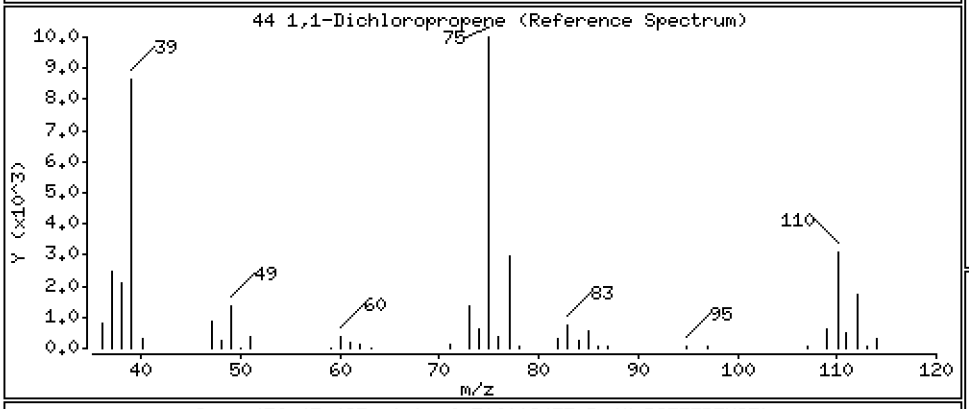
44 1,1-Dichloropropene Concentration: 5.64694 ug/L

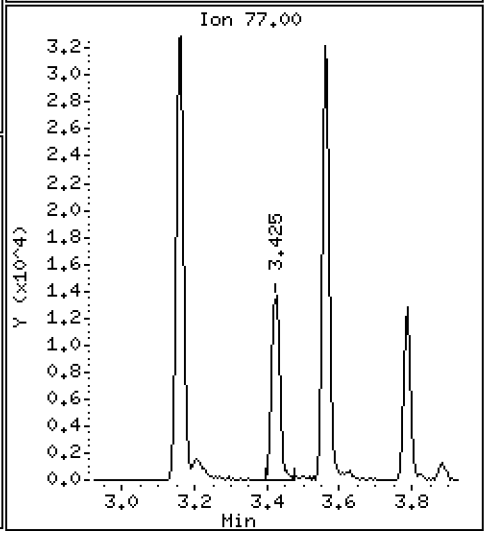


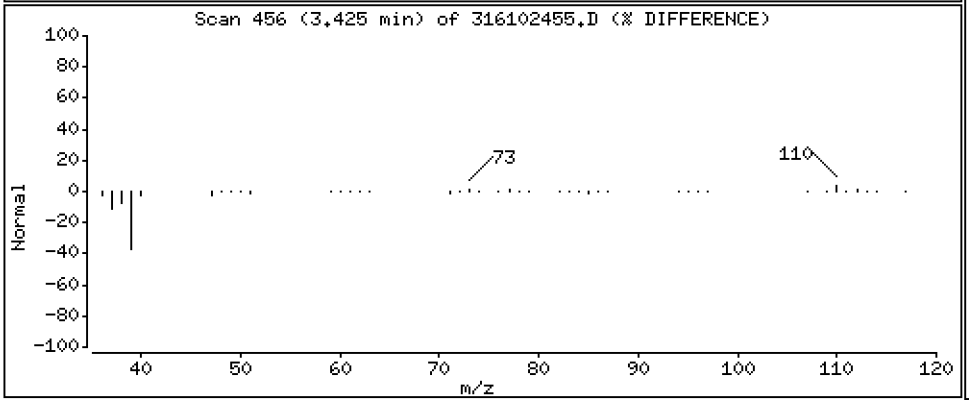












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 52

Date : 25-OCT-2016 00:08

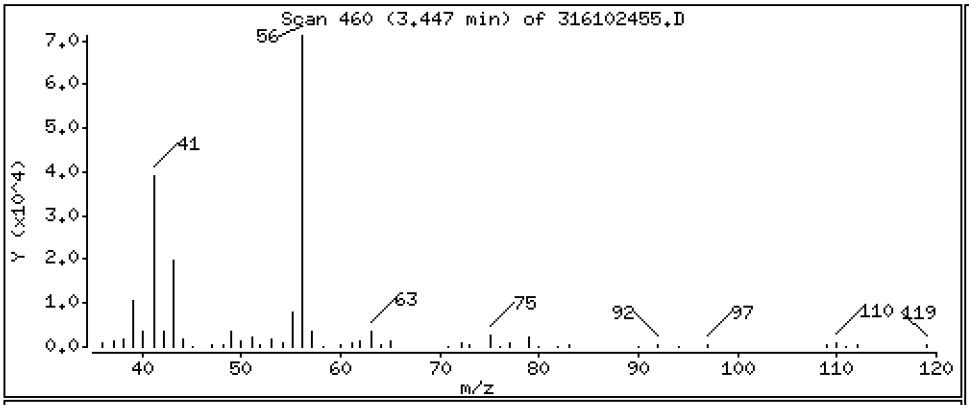
Client ID: Instrument: ms03.i

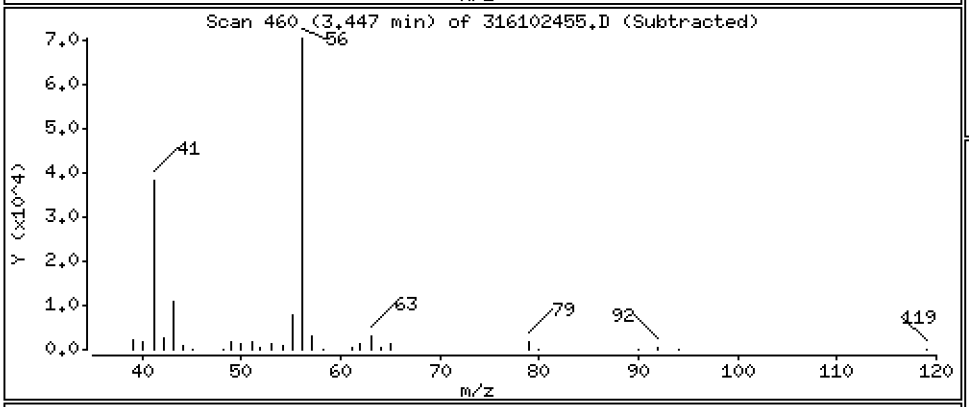
Sample Info: 1235;;1;1;2;;;

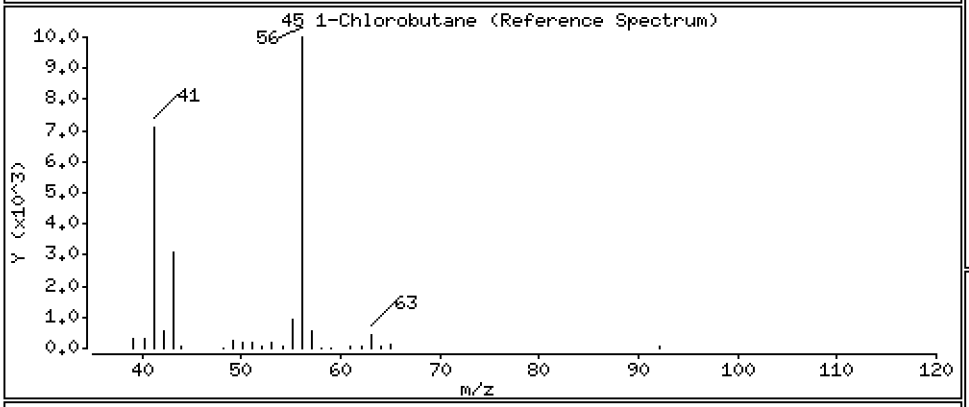
Purge Volume: 5.0 Operator: CJG

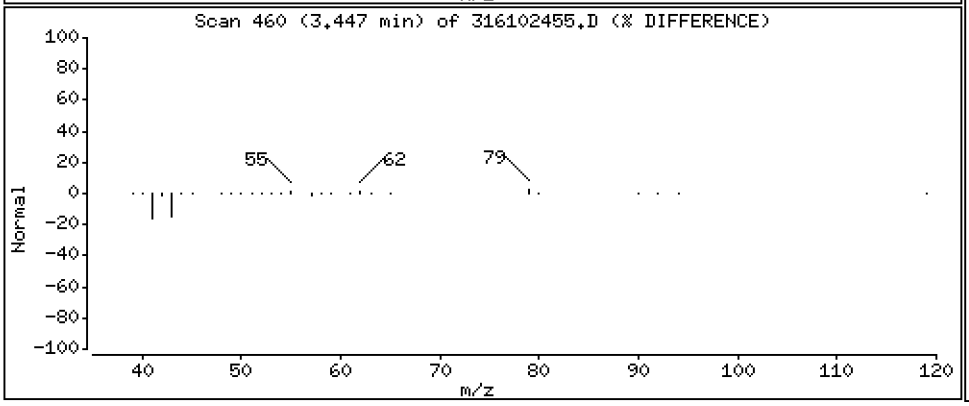
Column phase: DB-VRX Column diameter: 0.25

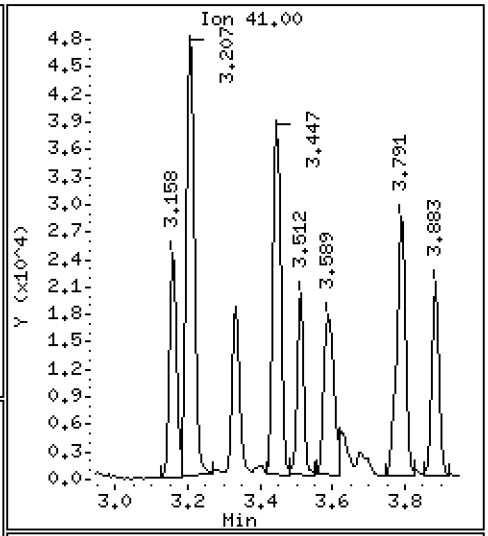
45 1-Chlorobutane Concentration: 5.84834 ug/L

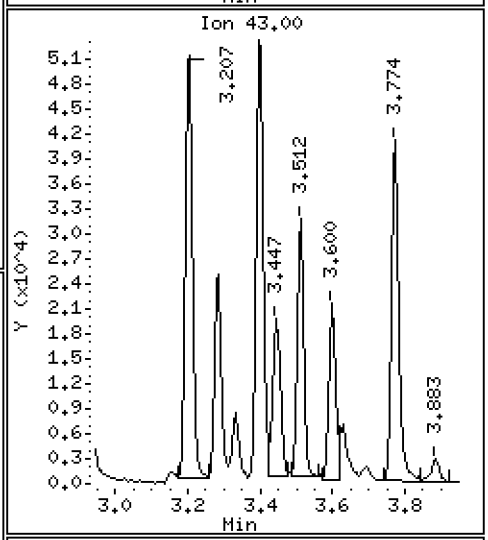


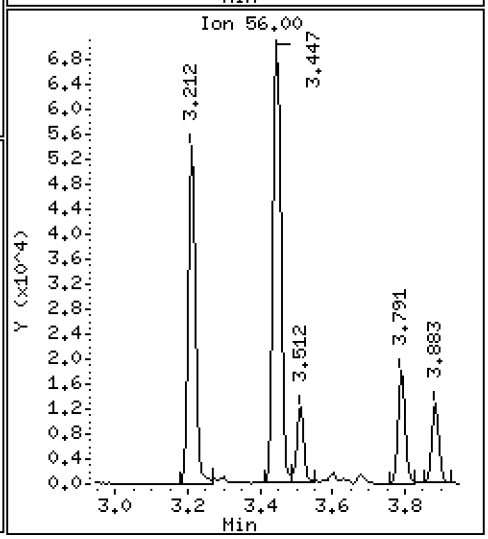












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 53

Date : 25-OCT-2016 00:08

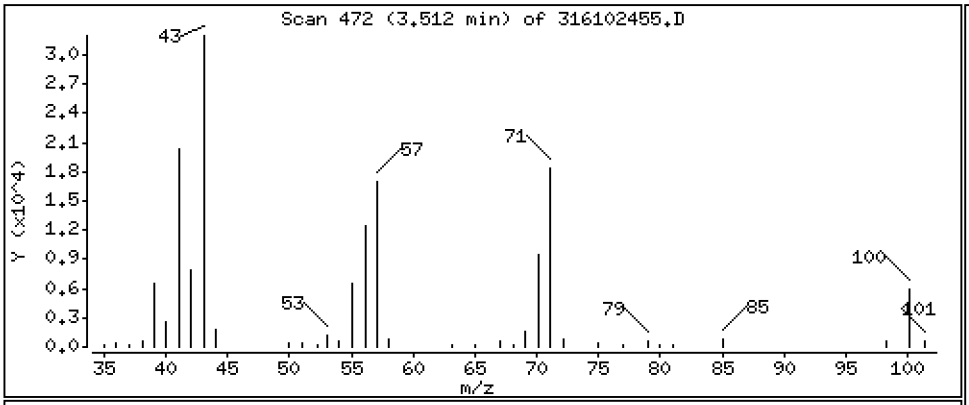
Client ID: Instrument: ms03.i

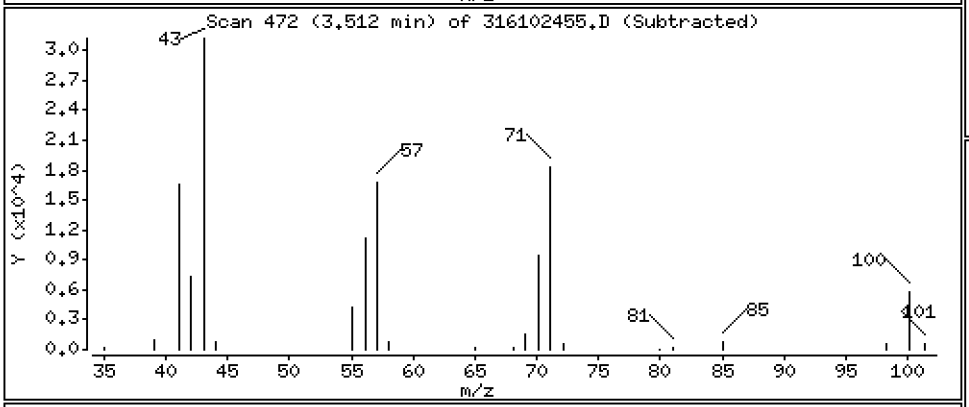
Sample Info: 1235;;1;1;2;;;

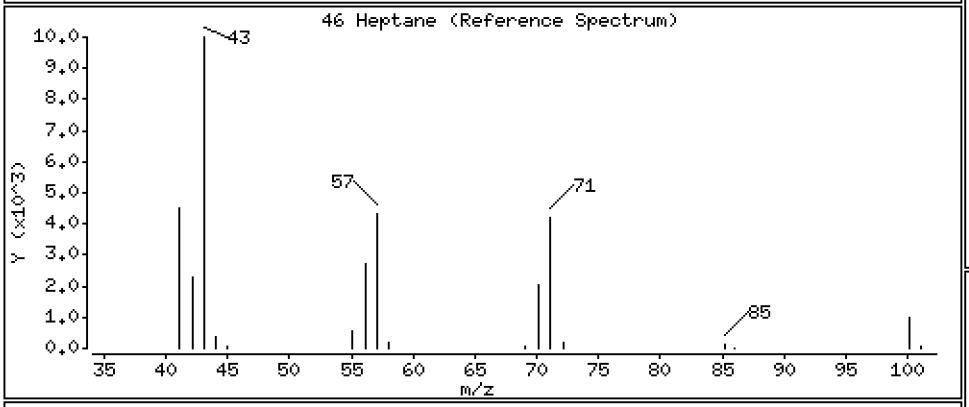
Purge Volume: 5.0 Operator: CJG

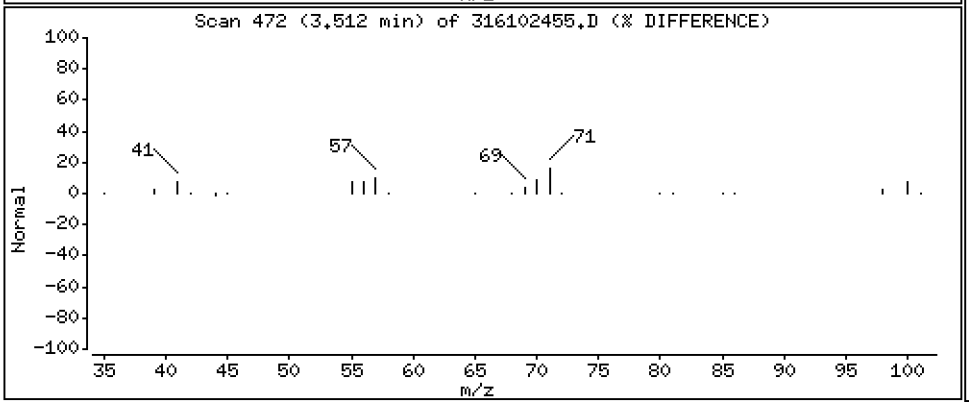
Column phase: DB-VRX Column diameter: 0.25

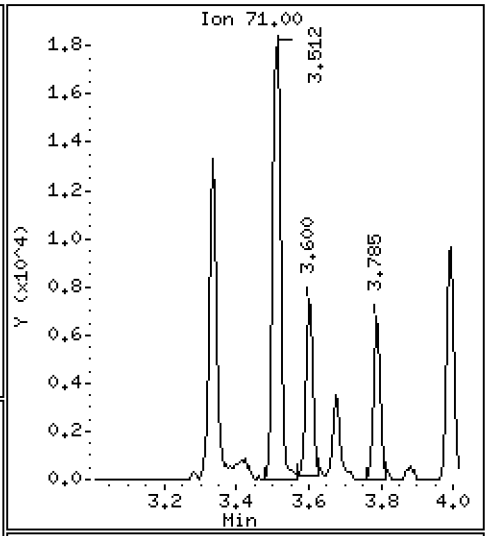
46 Heptane Concentration: 4.89757 ug/L

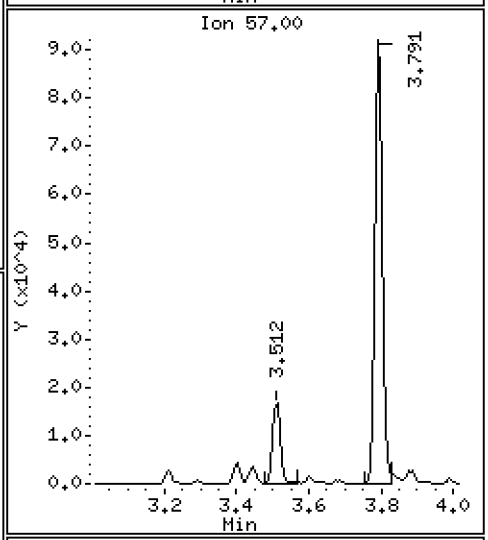


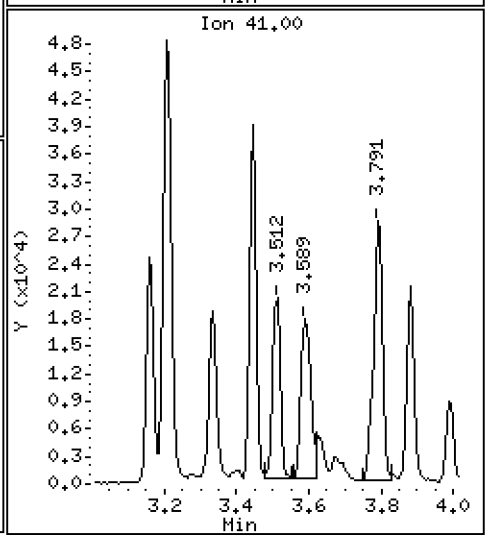












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 54

Date : 25-OCT-2016 00:08

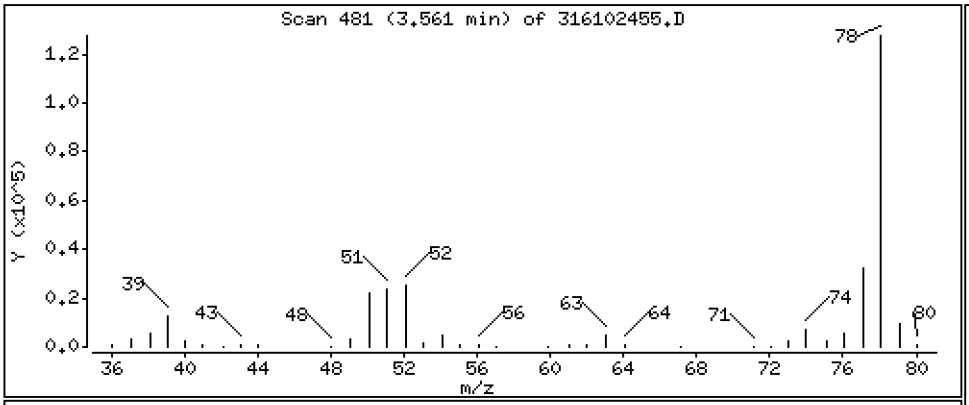
Client ID: Instrument: ms03.i

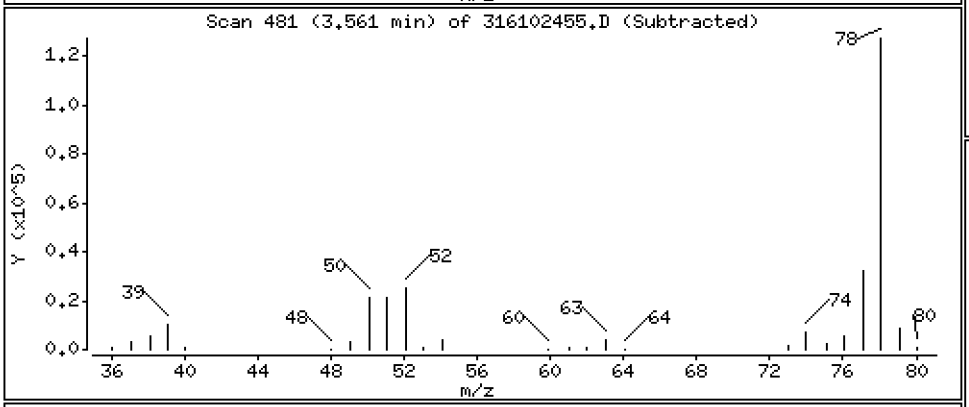
Sample Info: 1235;;1;1;2;;;

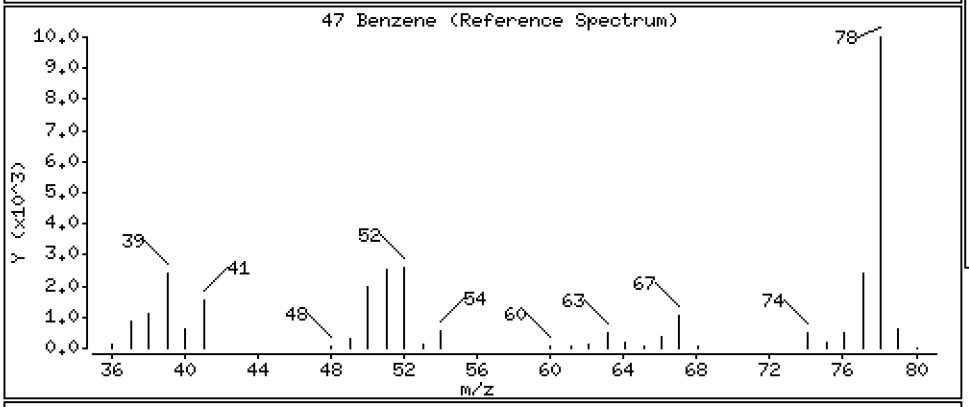
Purge Volume: 5.0 Operator: CJG

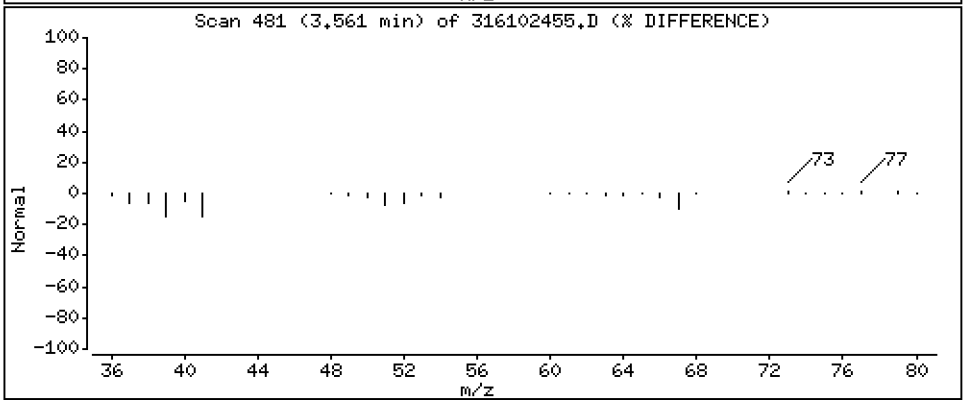
Column phase: DB-VRX Column diameter: 0.25

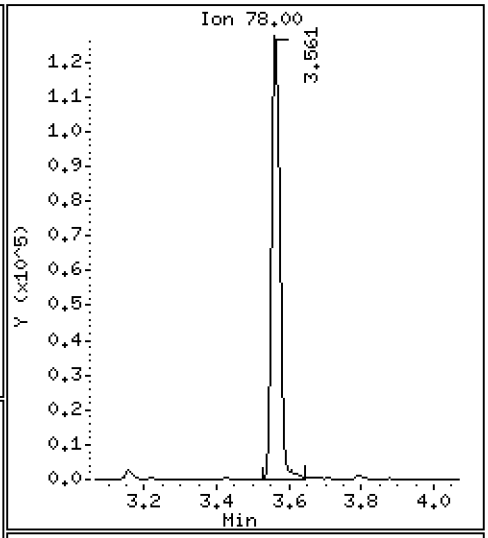
47 Benzene Concentration: 5.42687 ug/L

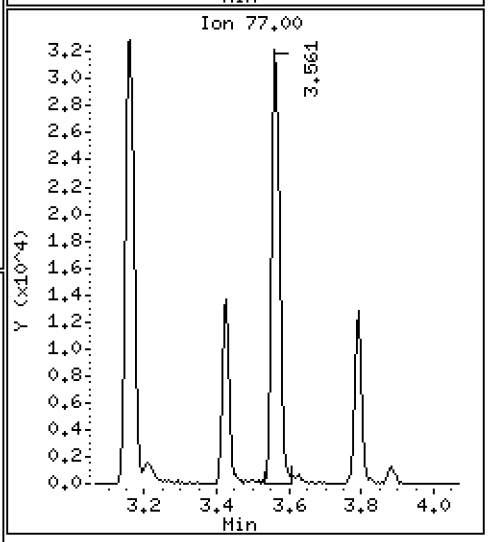












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 55

Date : 25-OCT-2016 00:08

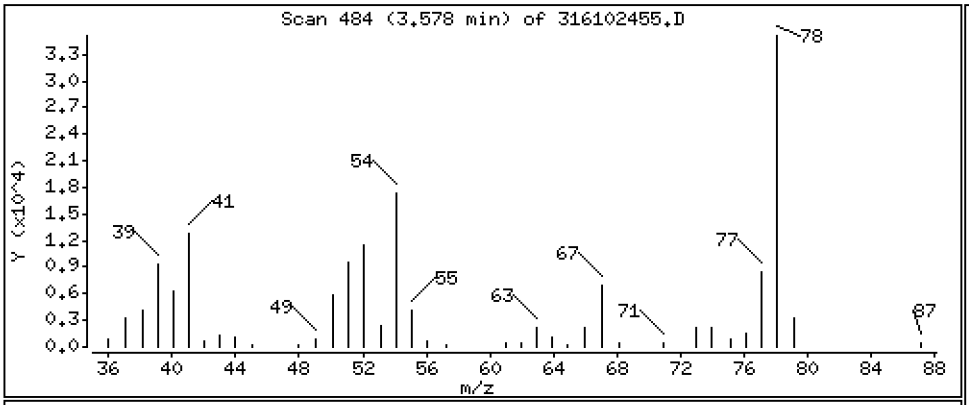
Client ID: Instrument: ms03.i

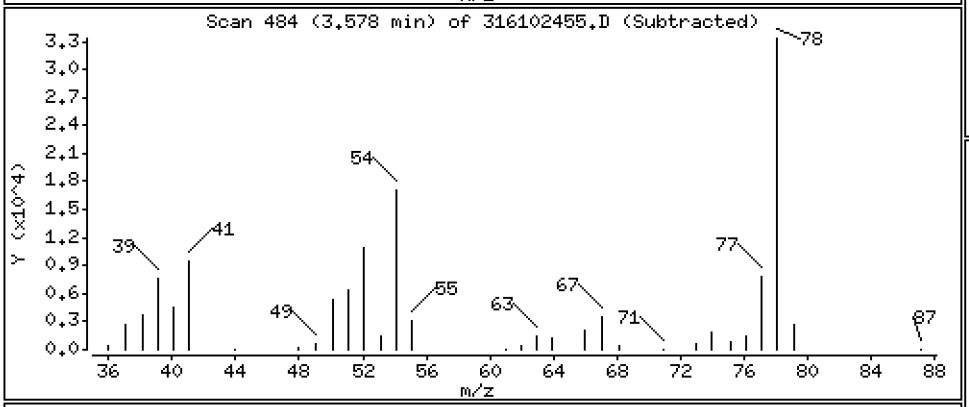
Sample Info: 1235;;1;1;2;;;

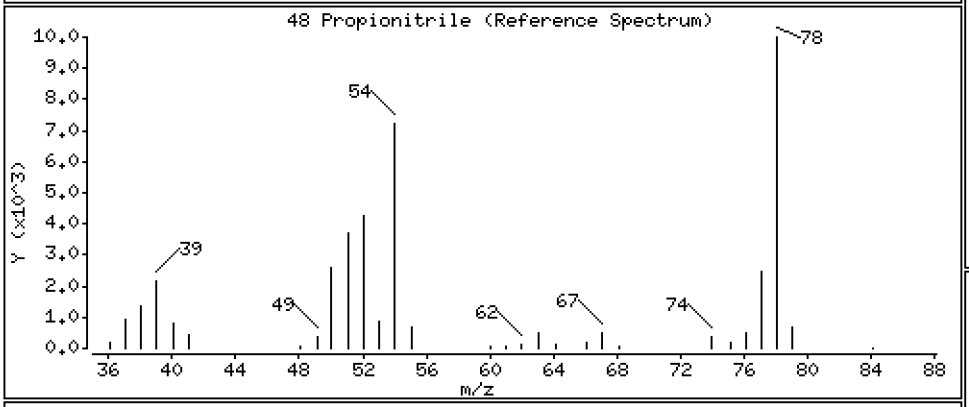
Purge Volume: 5.0 Operator: CJG

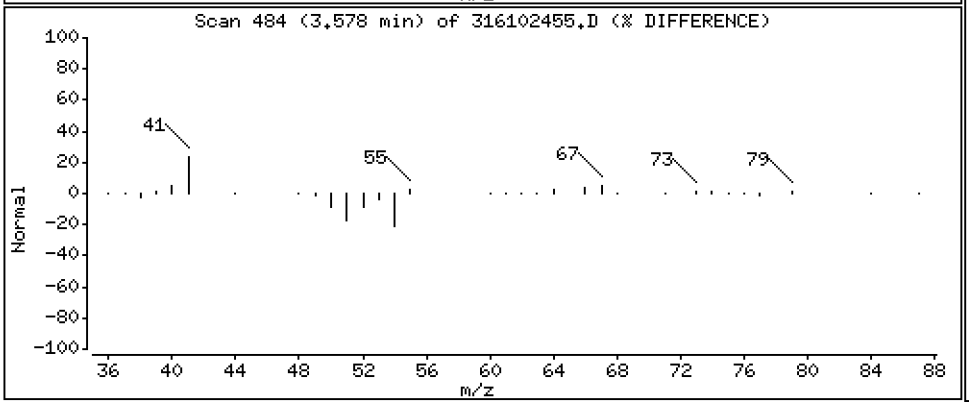
Column phase: DB-VRX Column diameter: 0.25

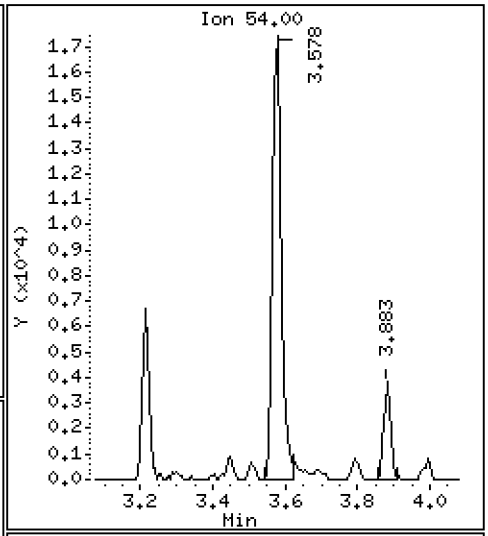
48 Propionitrile Concentration: 25.4875 ug/L

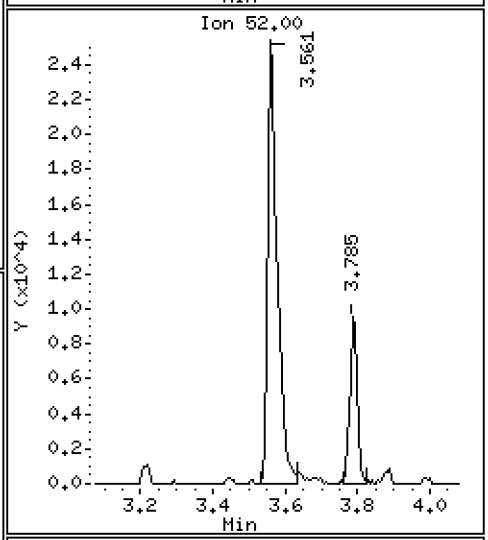


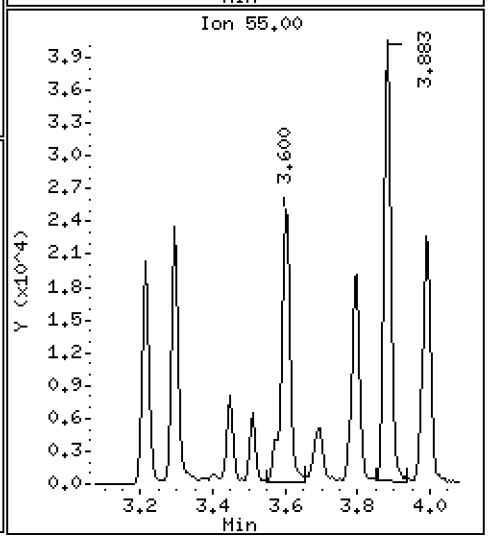












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 56

Date : 25-OCT-2016 00:08

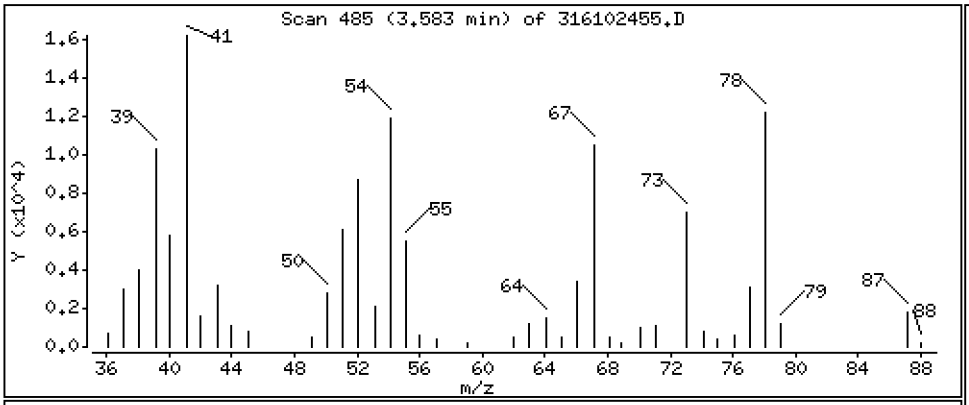
Client ID: Instrument: ms03.i

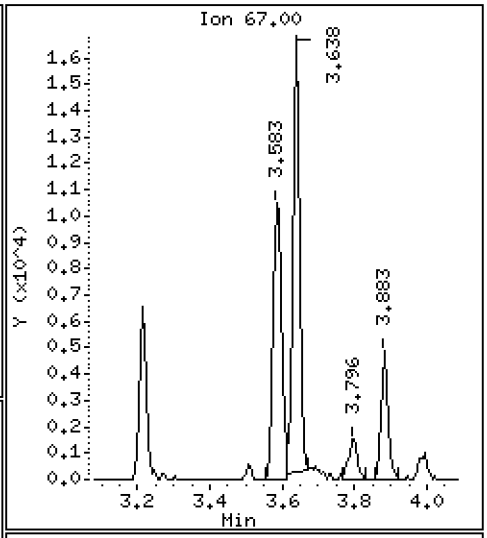
Sample Info: 1235;;1;1;2;;;

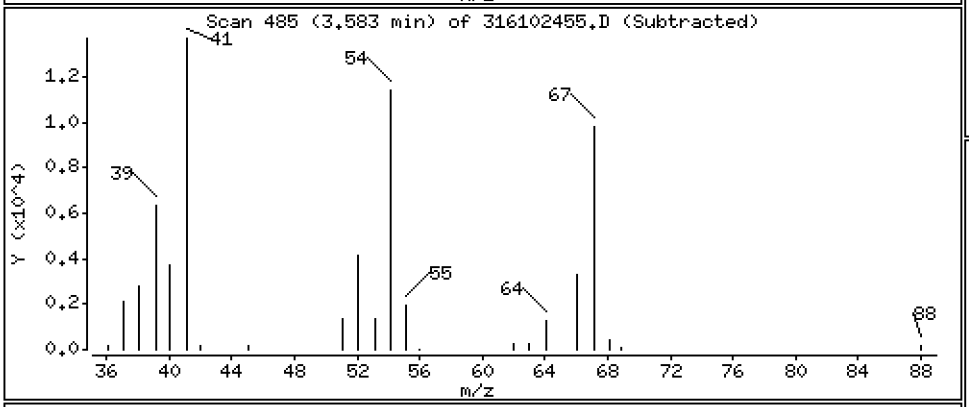
Purge Volume: 5.0 Operator: CJG

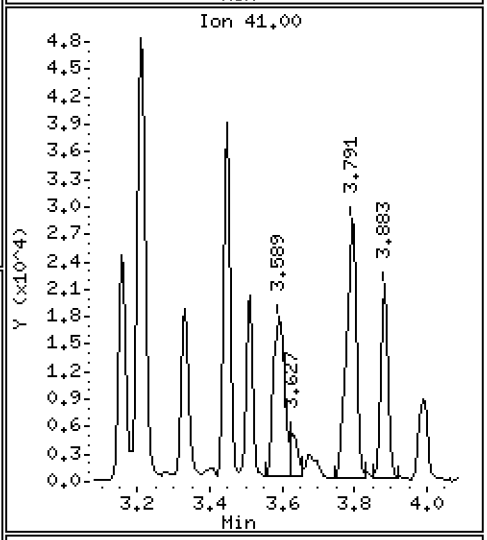
Column phase: DB-VRX Column diameter: 0.25

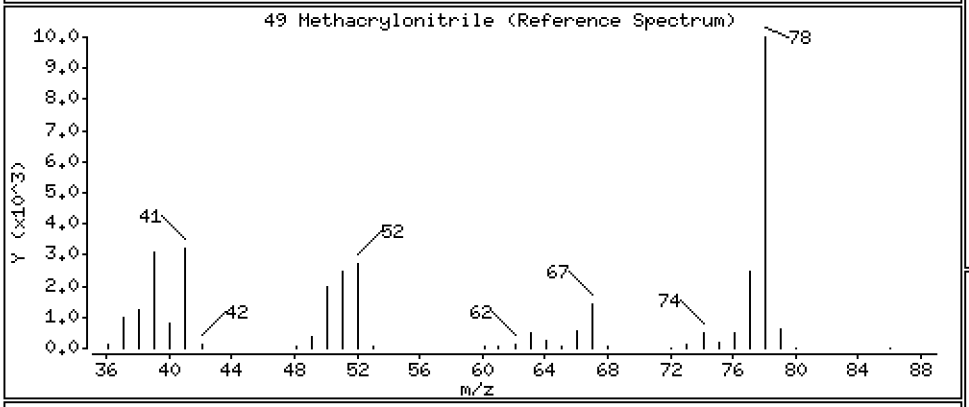
49 Methacrylonitrile Concentration: 5.03587 ug/L

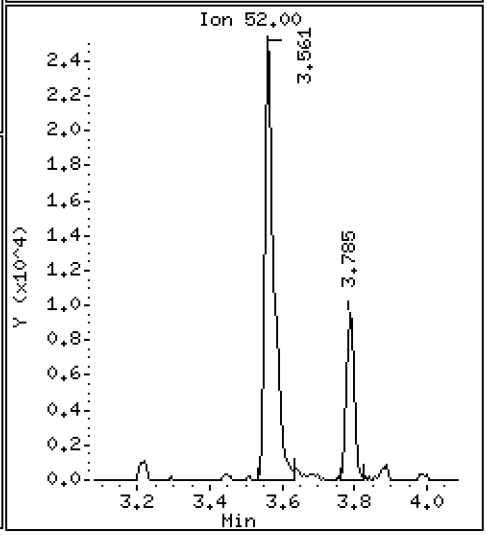


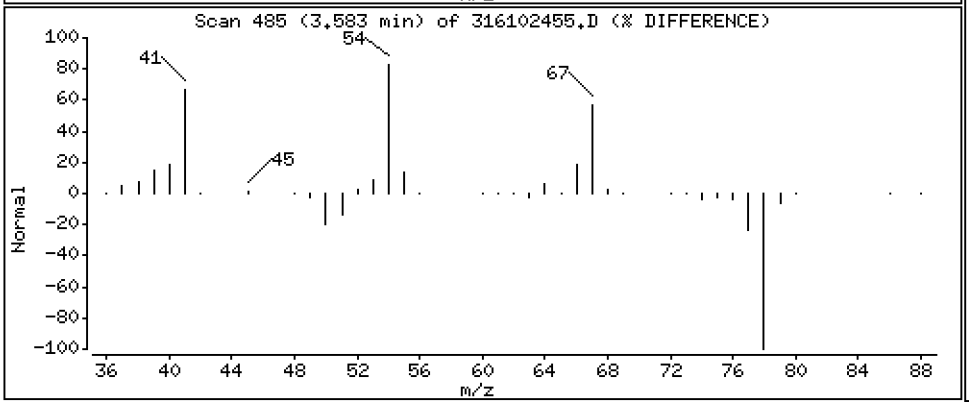












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 57

Date : 25-OCT-2016 00:08

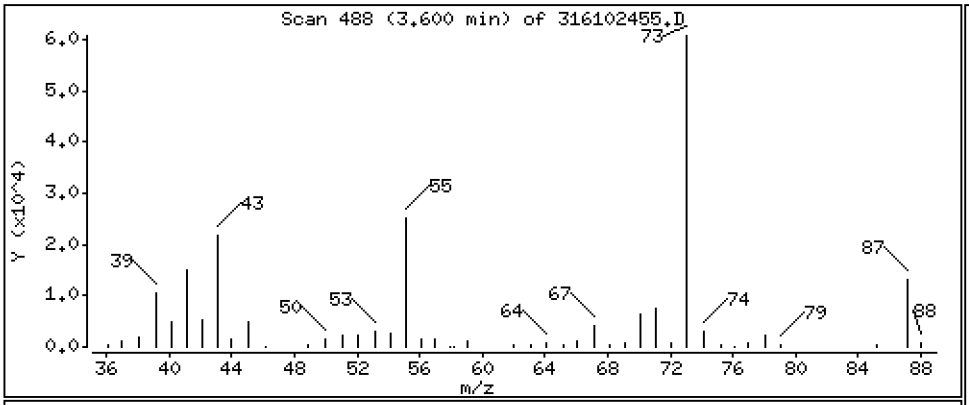
Client ID: Instrument: ms03.i

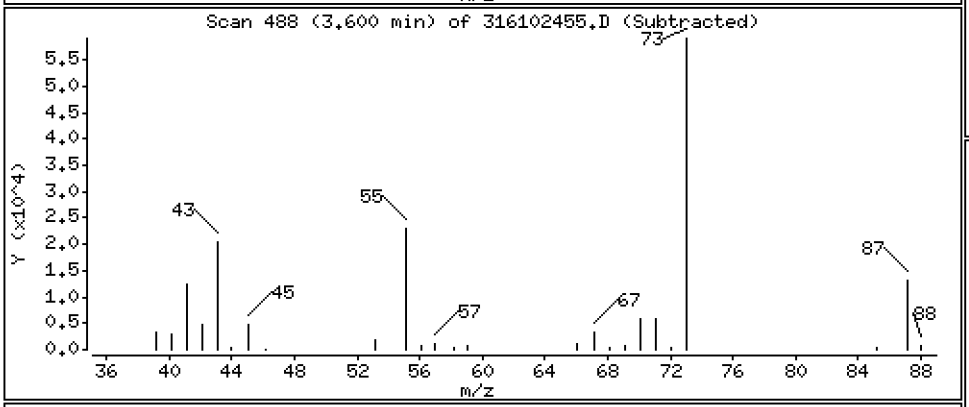
Sample Info: 1235;;1;1;2;;;

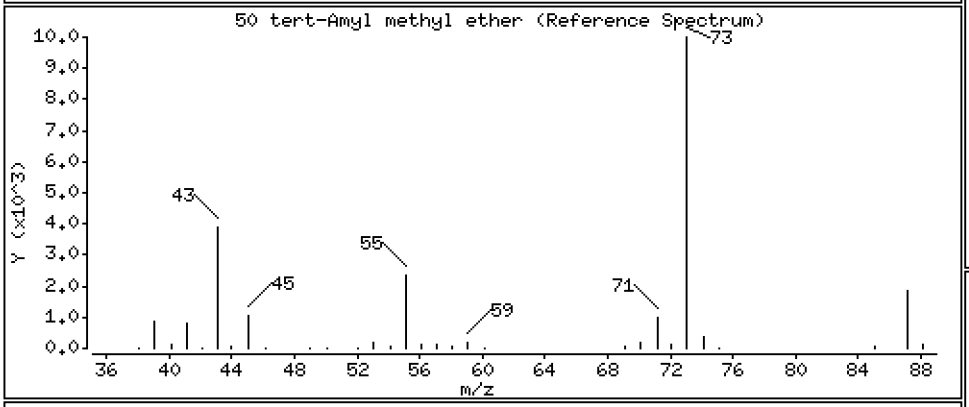
Purge Volume: 5.0 Operator: CJG

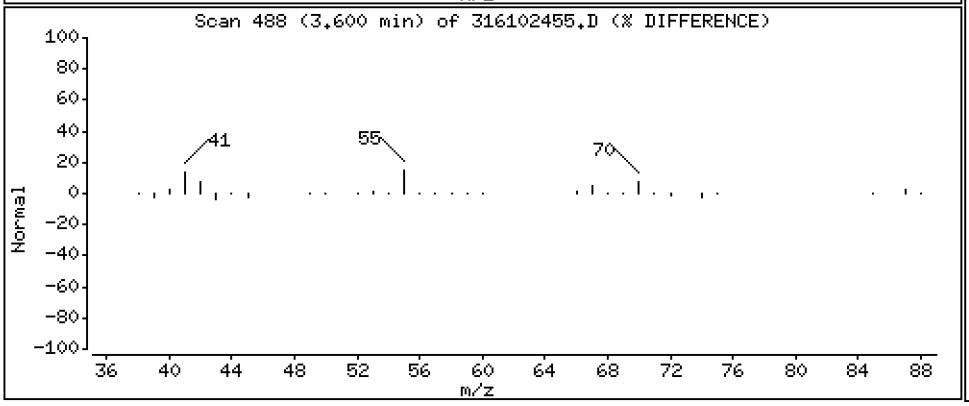
Column phase: DB-VRX Column diameter: 0.25

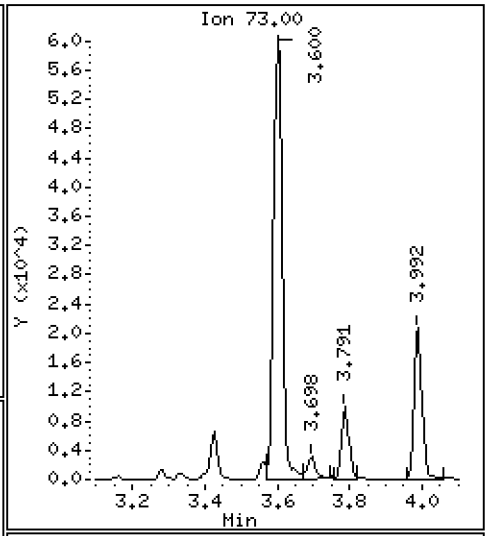
50 tert-Amyl methyl ether Concentration: 4.87002 ug/L

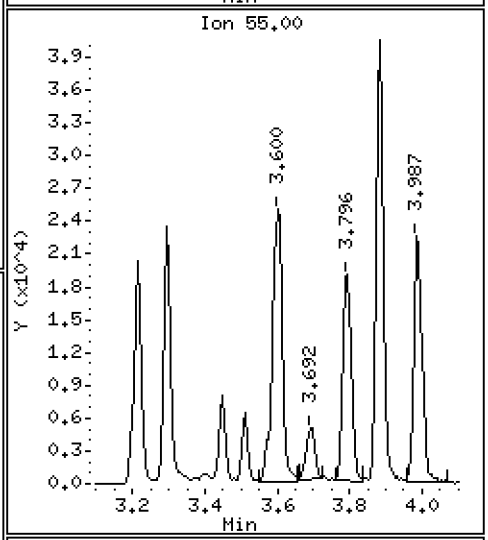


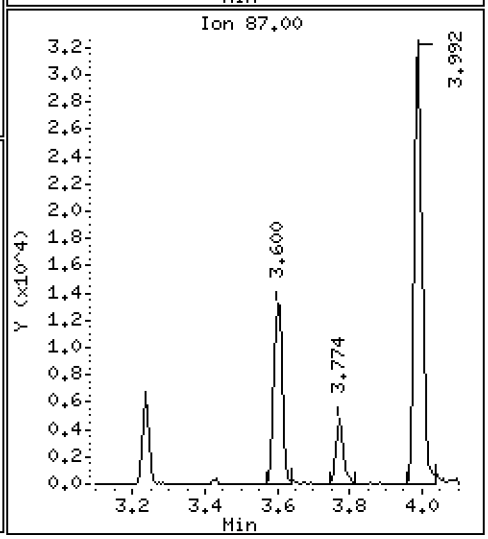












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 58

Date : 25-OCT-2016 00:08

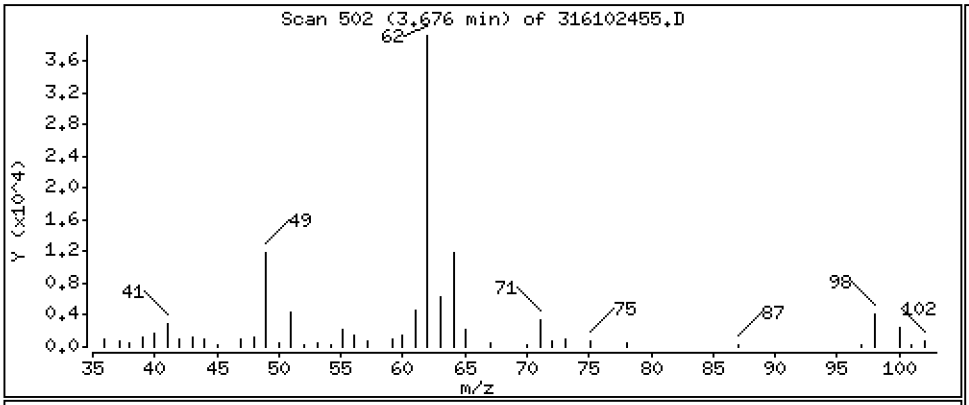
Client ID: Instrument: ms03.i

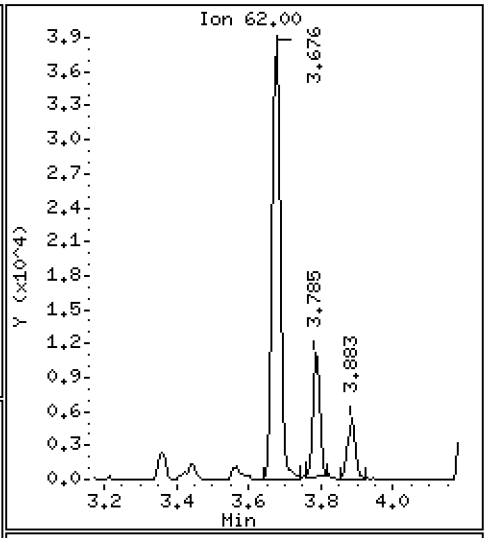
Sample Info: 1235;;1;1;2;;;

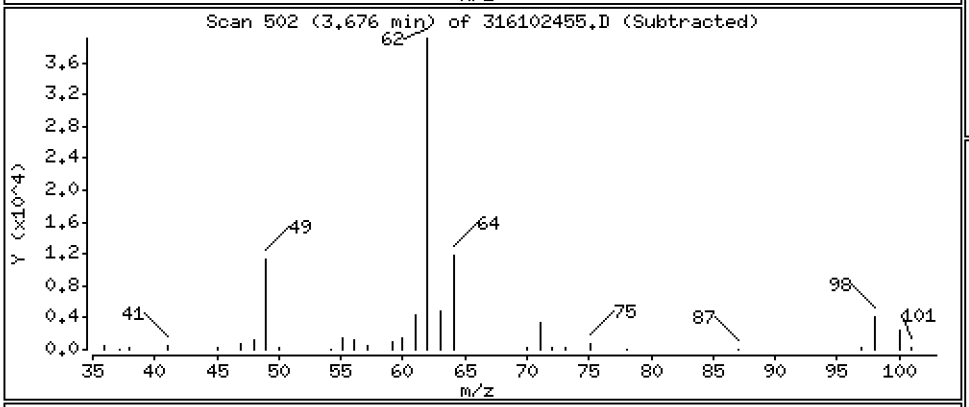
Purge Volume: 5.0 Operator: CJG

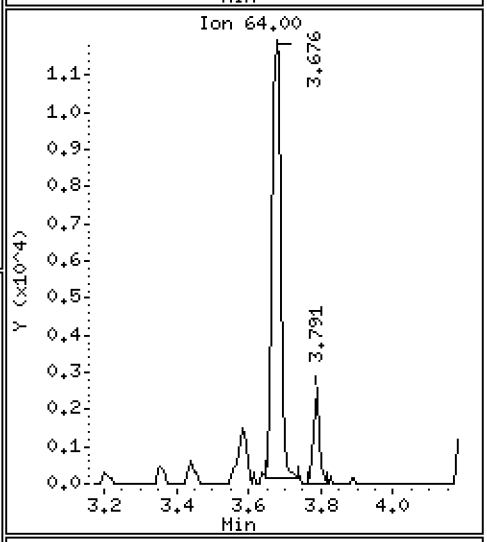
Column phase: DB-VRX Column diameter: 0.25

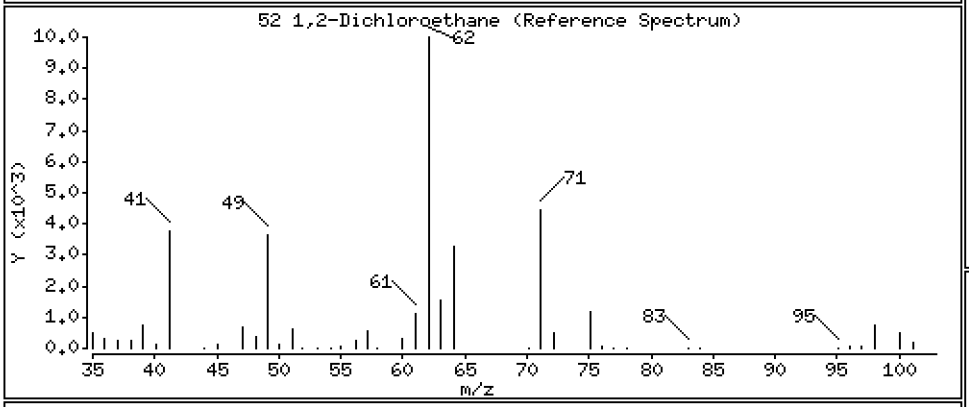
52 1,2-Dichloroethane Concentration: 5.28320 ug/L

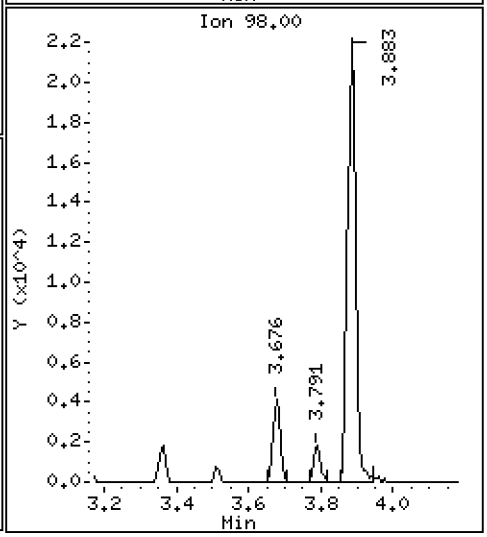


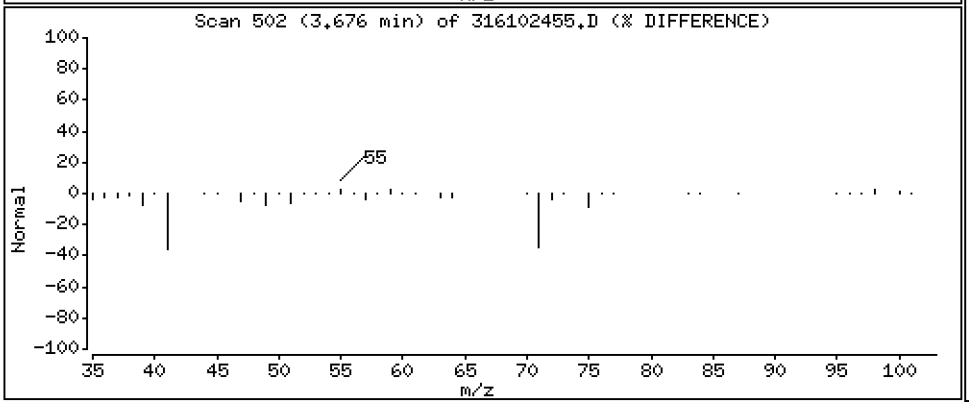












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 59

Date : 25-OCT-2016 00:08

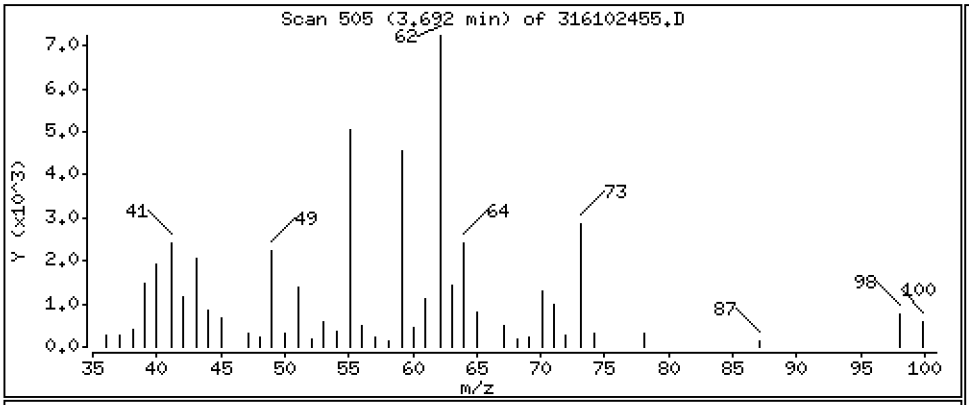
Client ID: Instrument: ms03.i

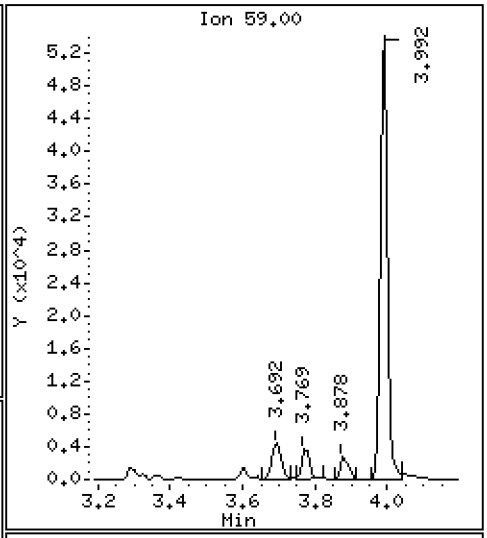
Sample Info: 1235;;1;1;2;;;

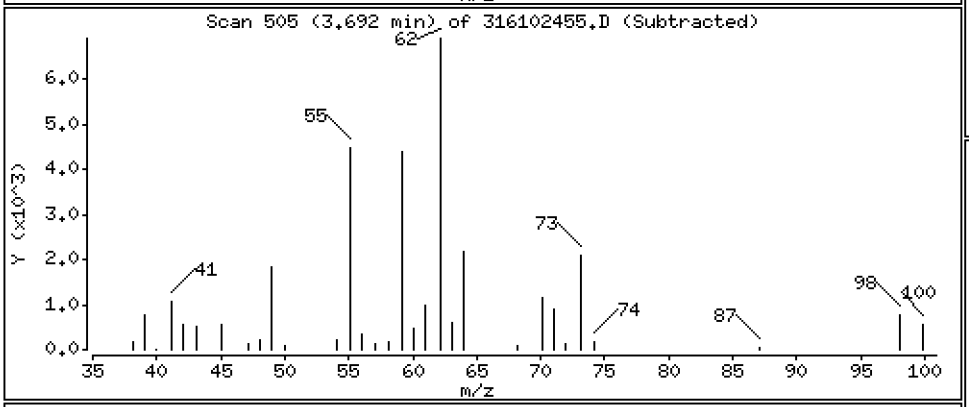
Purge Volume: 5.0 Operator: CJG

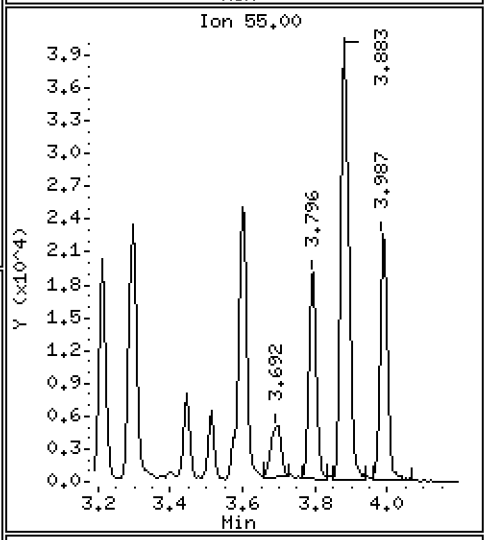
Column phase: DB-VRX Column diameter: 0.25

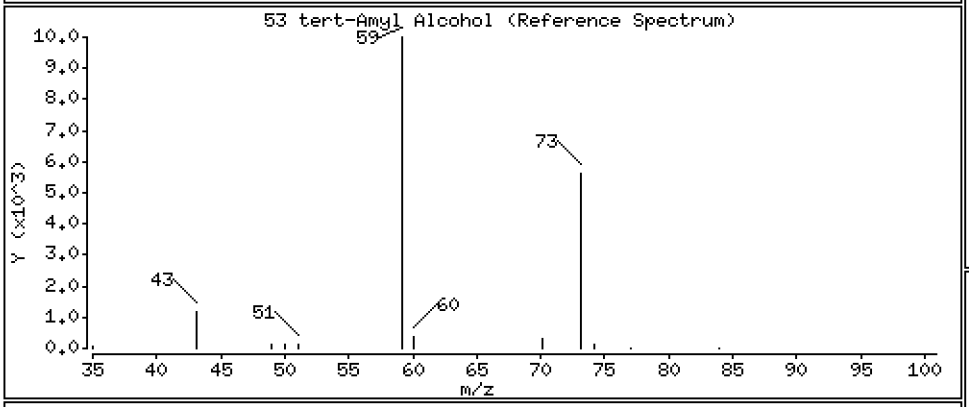
53 tert-Amyl Alcohol Concentration: 21.7843 ug/L

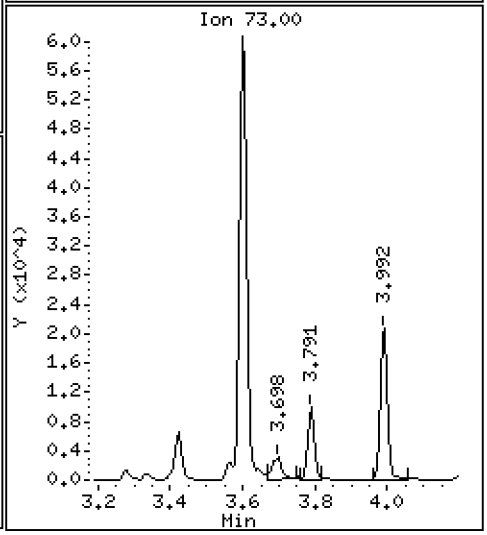


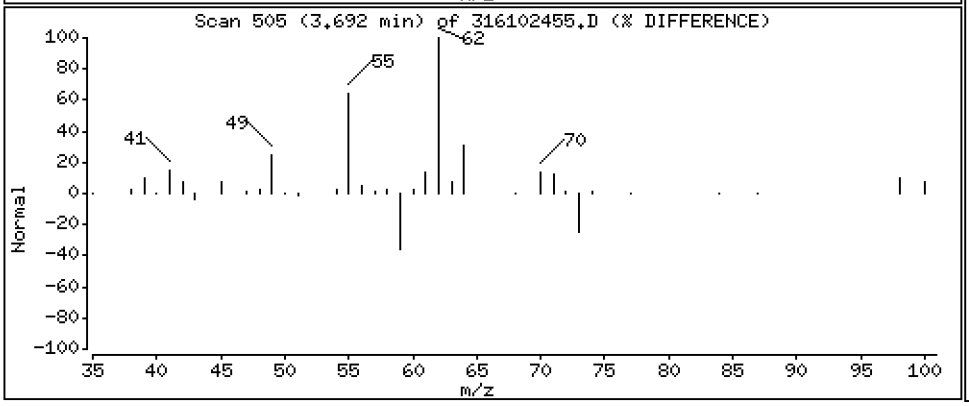












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 60

Date : 25-OCT-2016 00:08

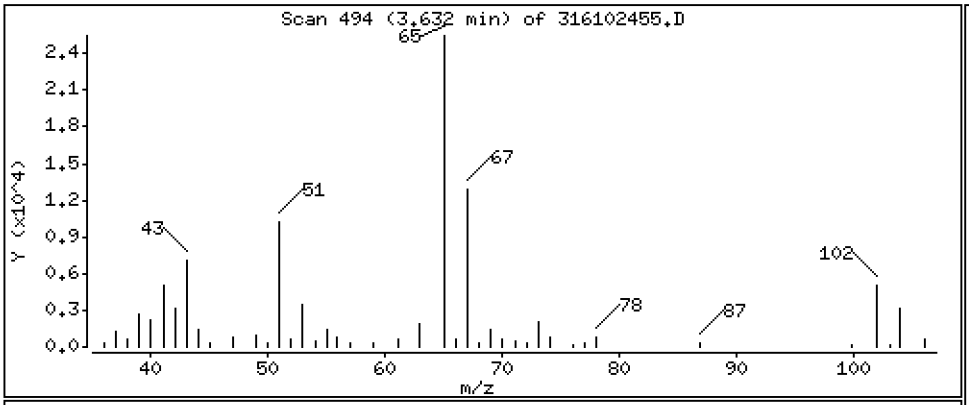
Client ID: Instrument: ms03.i

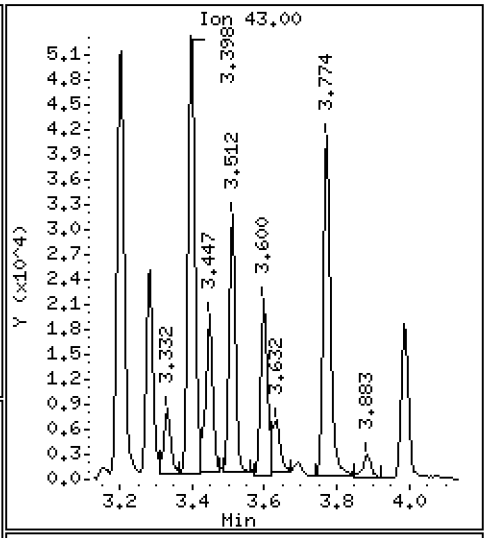
Sample Info: 1235;;1;1;2;;;

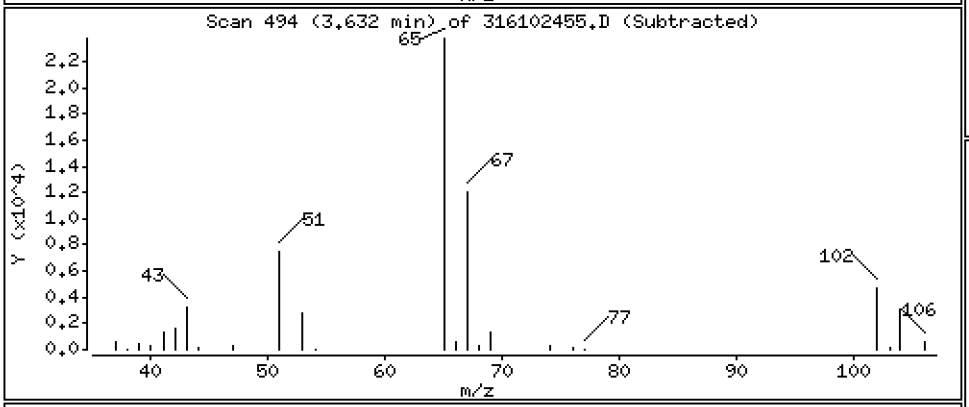
Purge Volume: 5.0 Operator: CJG

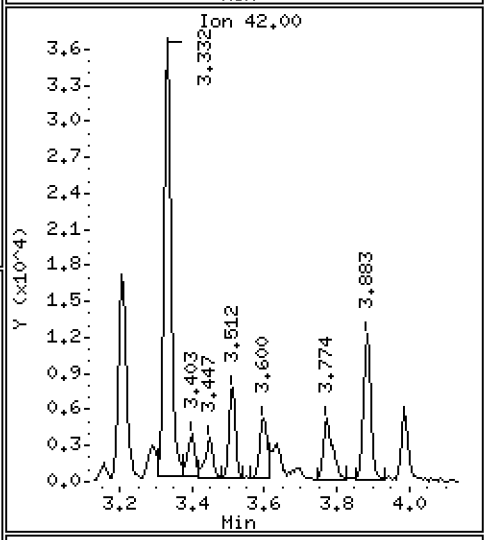
Column phase: DB-VRX Column diameter: 0.25

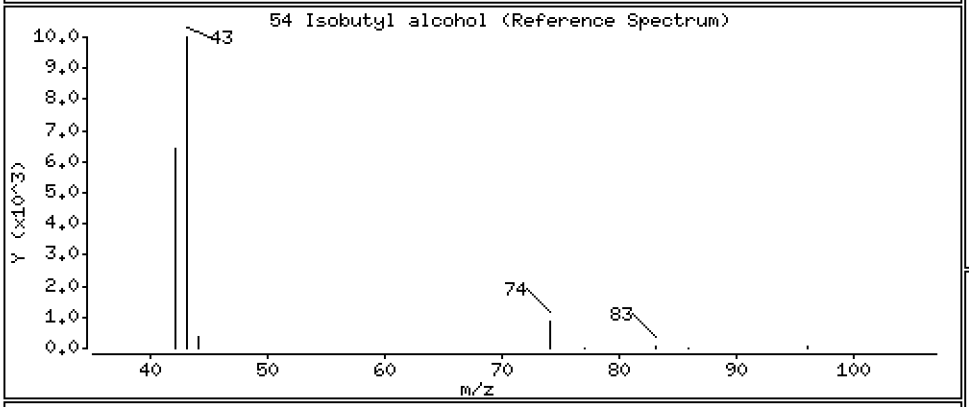
54 Isobutyl alcohol Concentration: 55.2435 ug/L

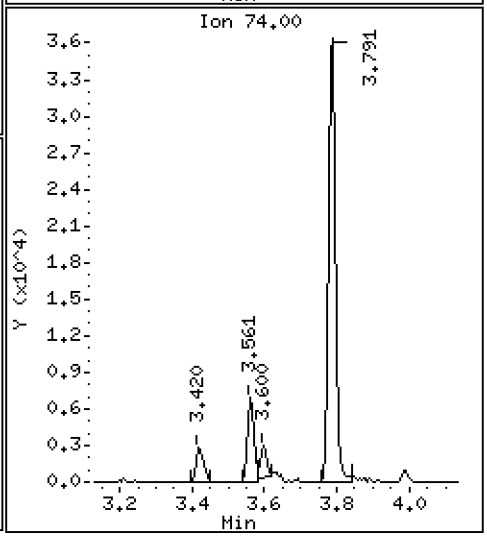


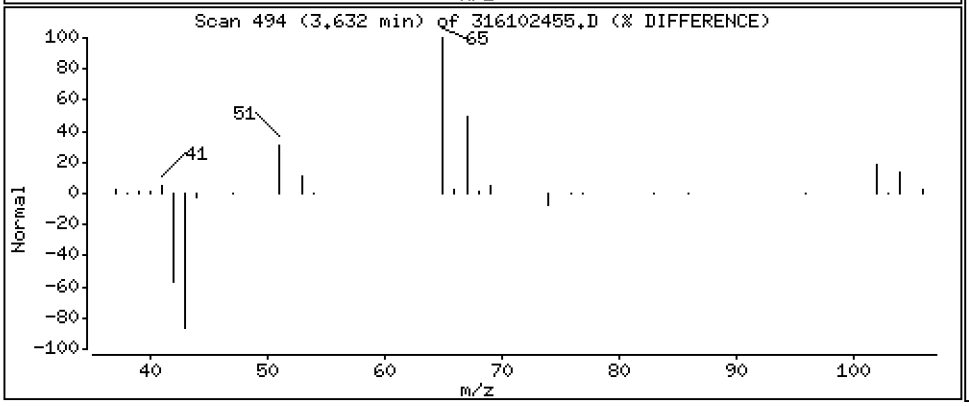












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 61

Date : 25-OCT-2016 00:08

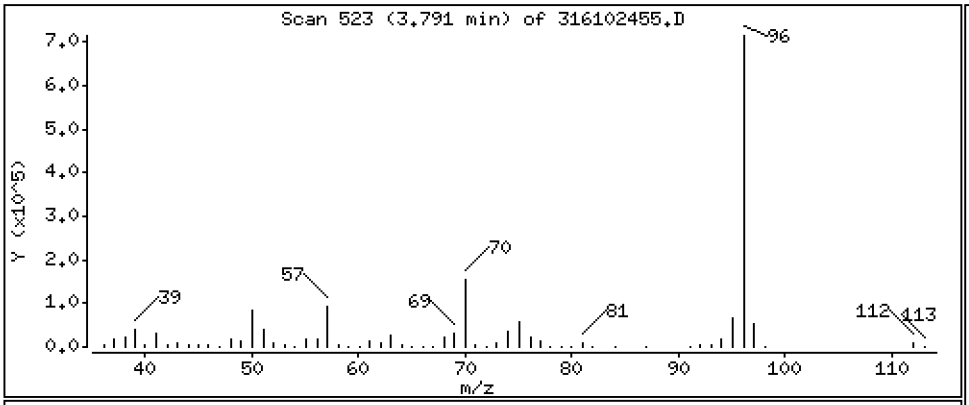
Client ID: Instrument: ms03.i

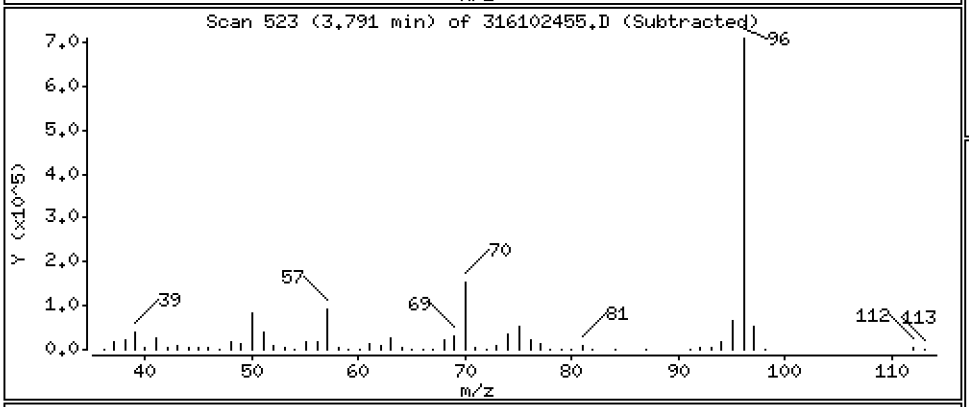
Sample Info: 1235;;1;1;2;;;

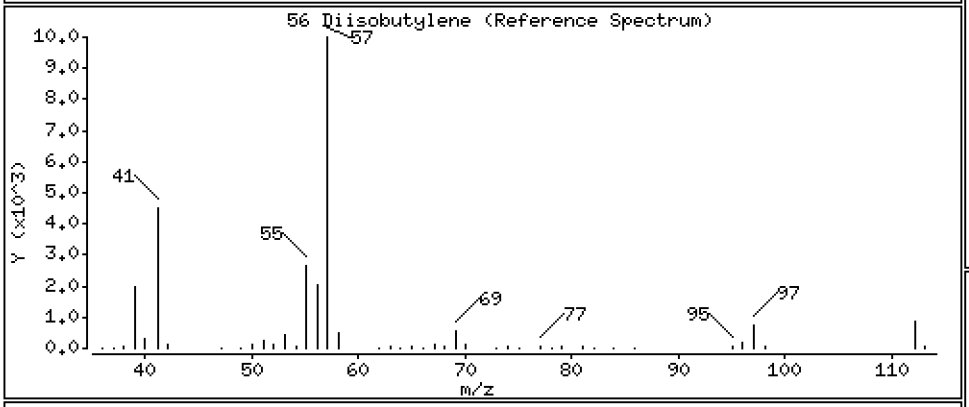
Purge Volume: 5.0 Operator: CJG

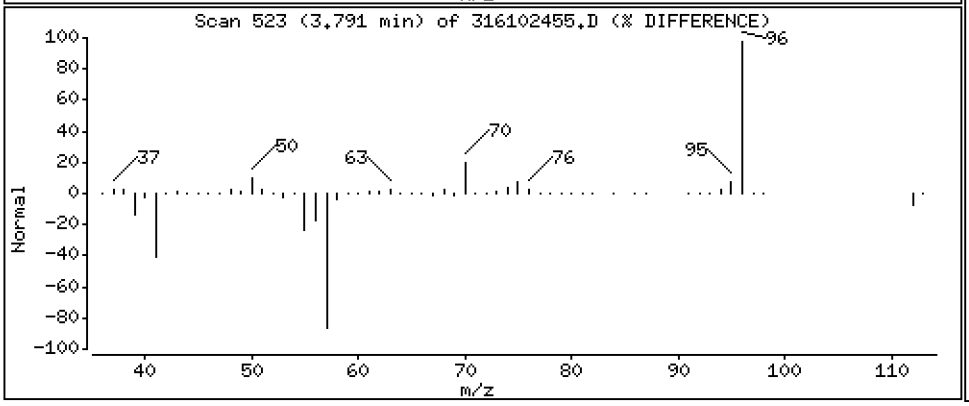
Column phase: DB-VRX Column diameter: 0.25

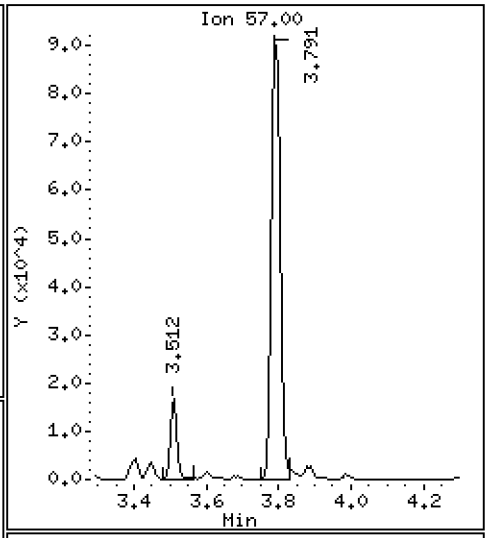
56 Diisobutylene Concentration: 6.77682 ug/L

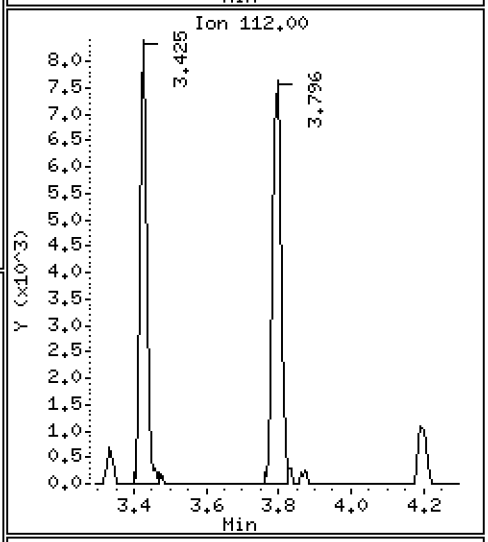


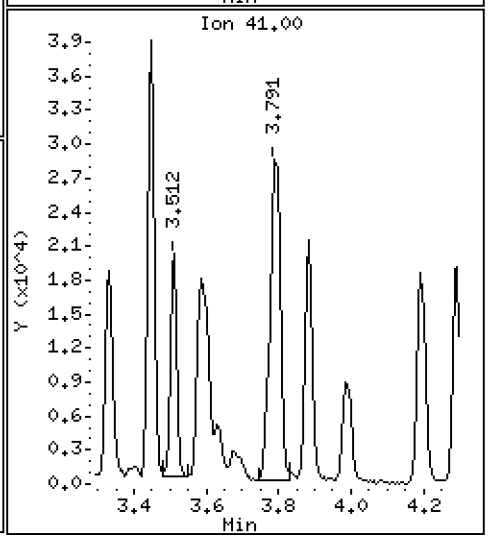












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 62

Date : 25-OCT-2016 00:08

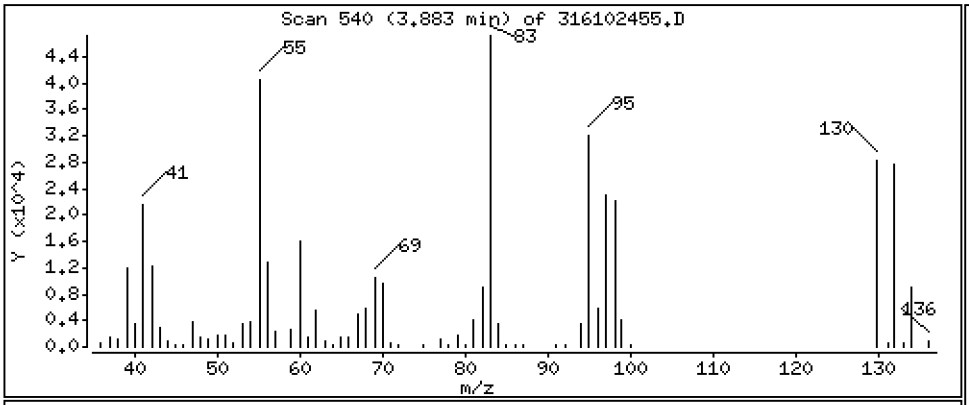
Client ID: Instrument: ms03.i

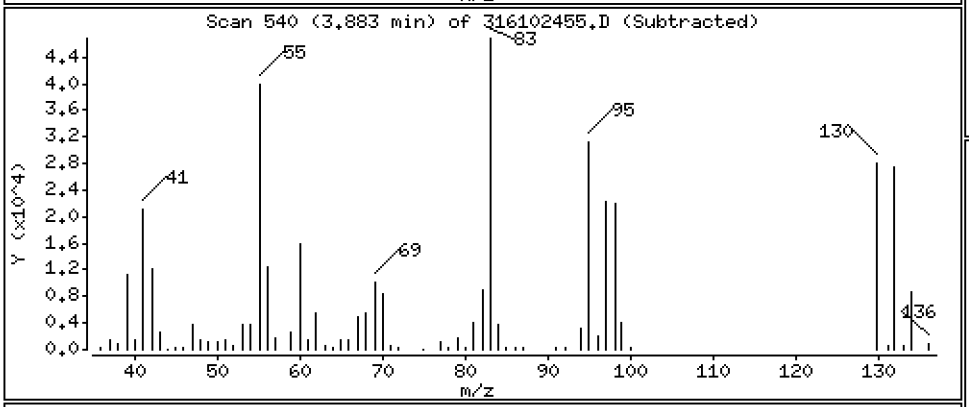
Sample Info: 1235;;1;1;2;;;

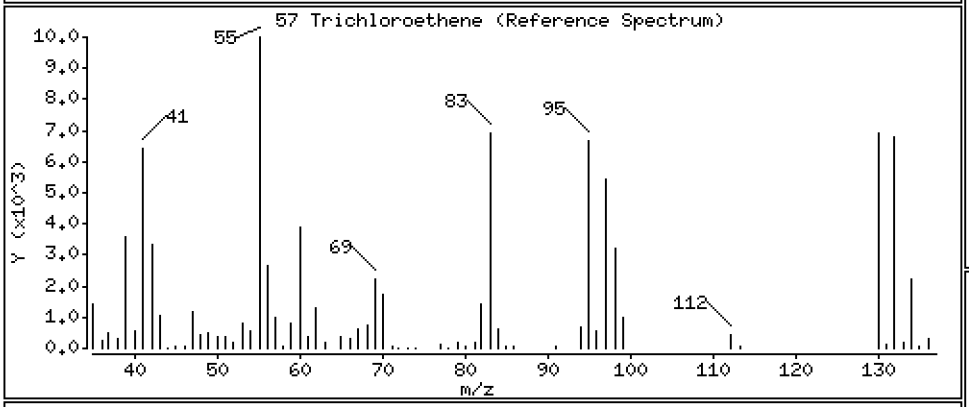
Purge Volume: 5.0 Operator: CJG

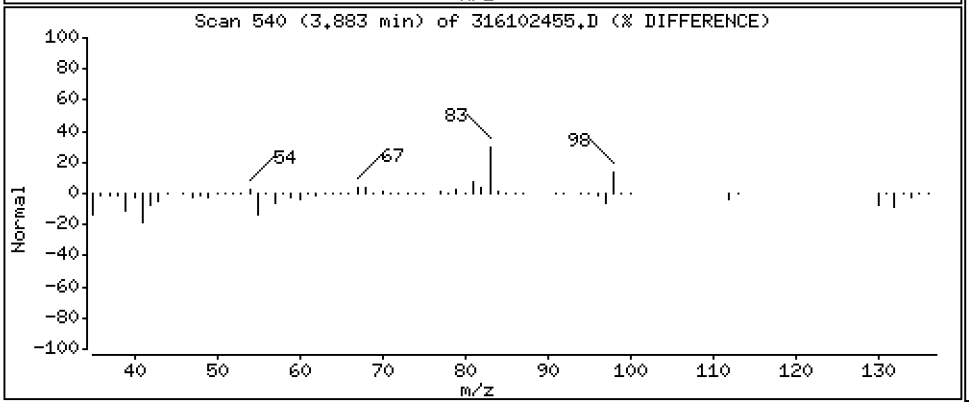
Column phase: DB-VRX Column diameter: 0.25

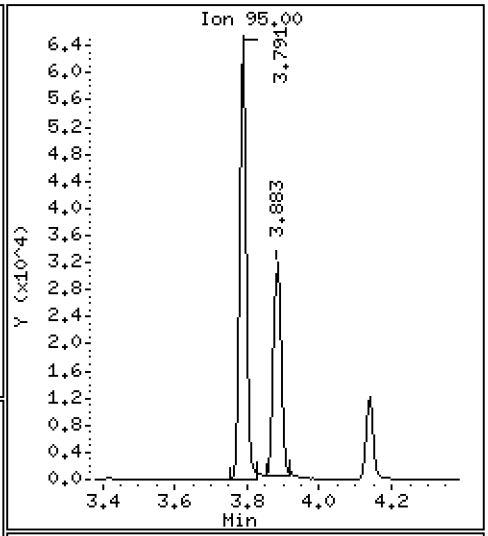
57 Trichloroethene Concentration: 5.51785 ug/L

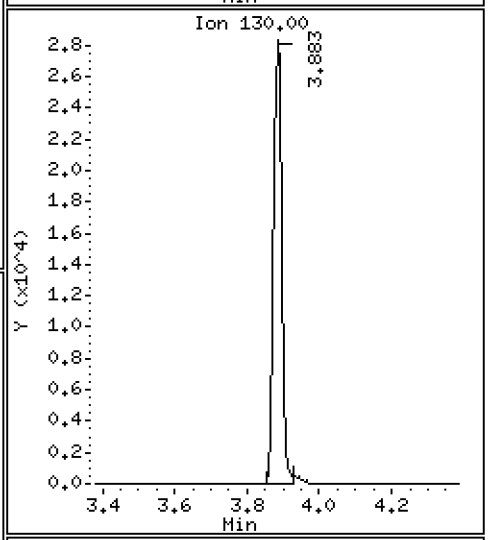


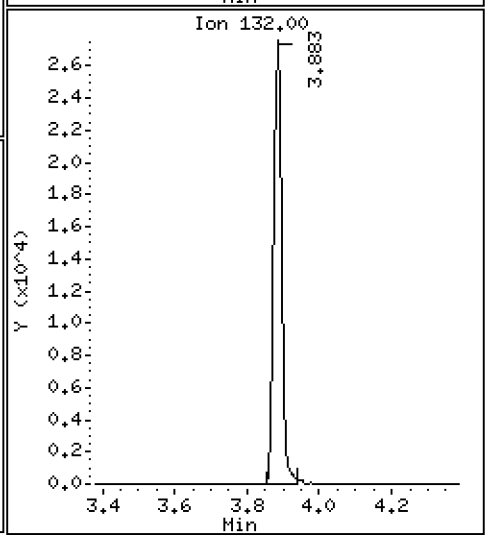












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 63

Date : 25-OCT-2016 00:08

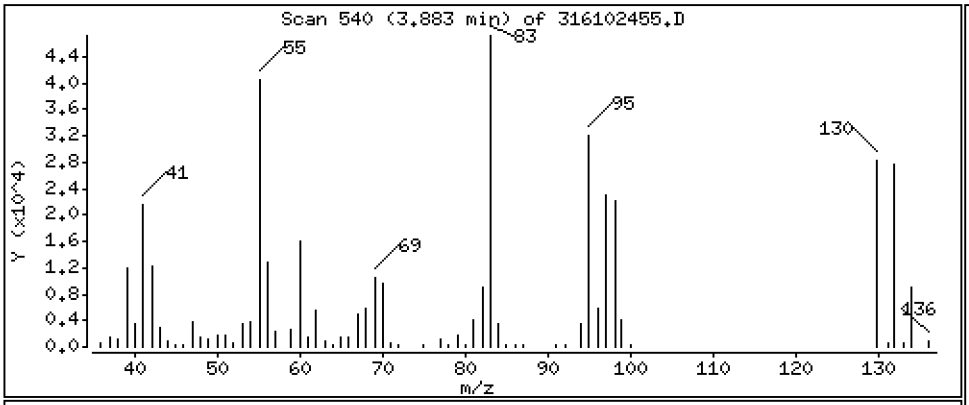
Client ID: Instrument: ms03.i

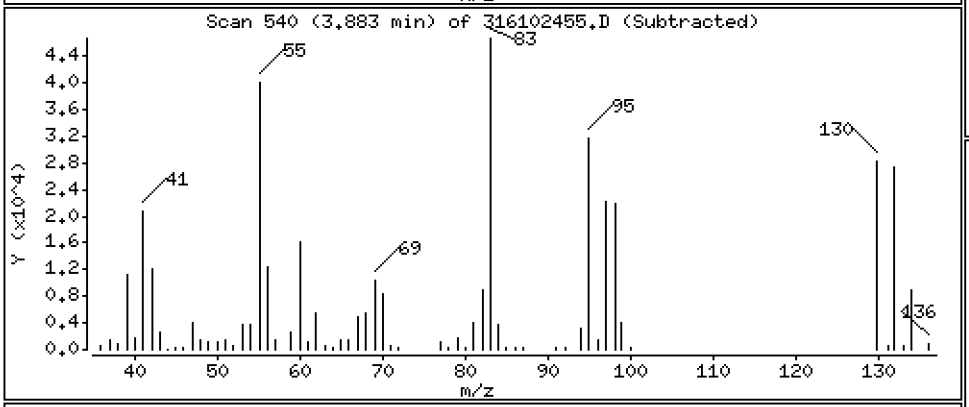
Sample Info: 1235;;1;1;2;;;

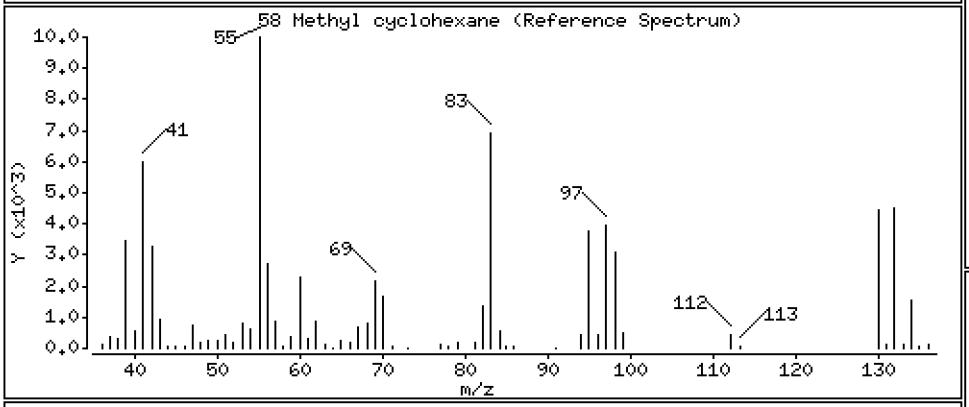
Purge Volume: 5.0 Operator: CJG

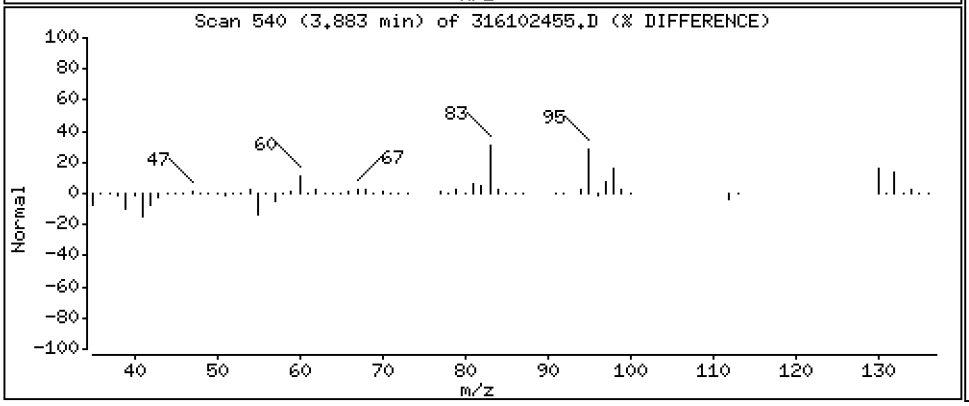
Column phase: DB-VRX Column diameter: 0.25

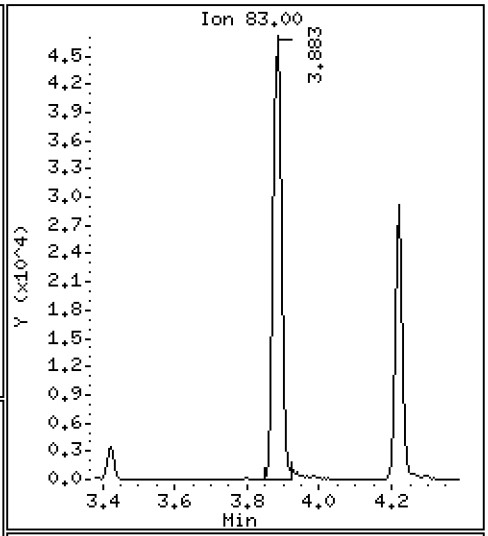
58 Methyl cyclohexane Concentration: 5.89290 ug/L

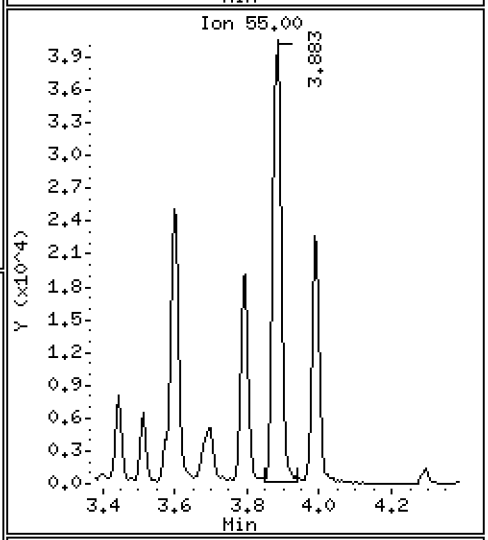


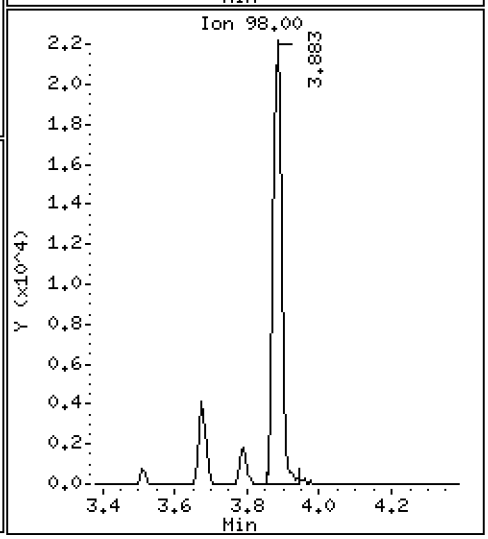












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 64

Date : 25-OCT-2016 00:08

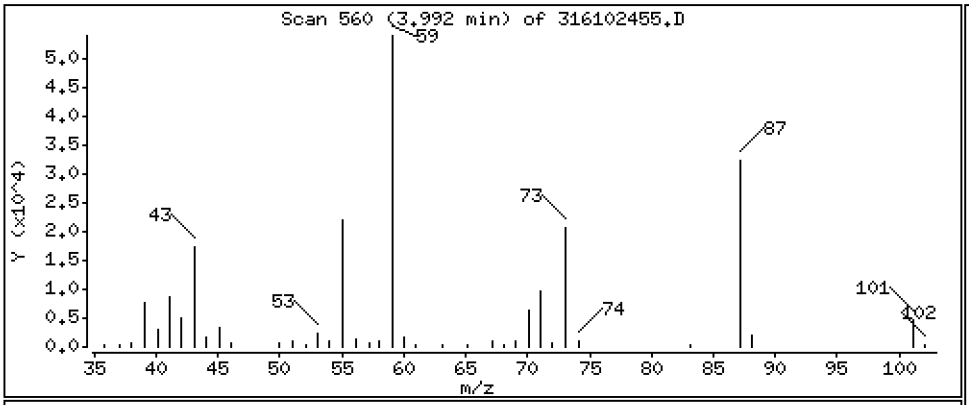
Client ID: Instrument: ms03.i

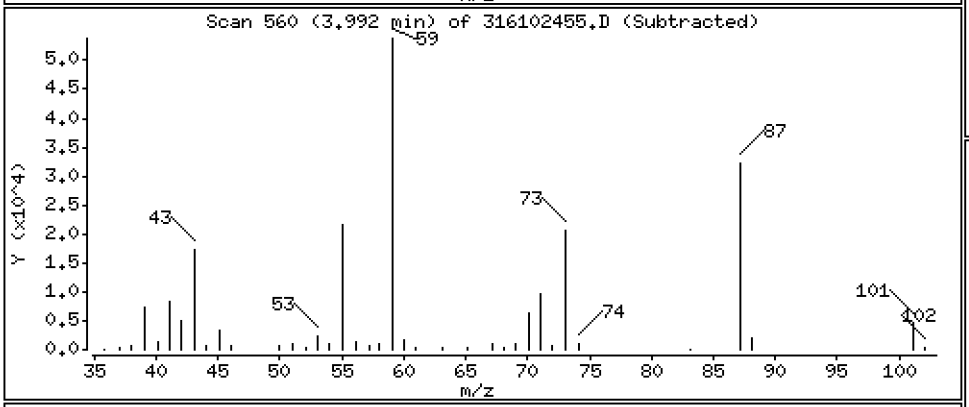
Sample Info: 1235;;1;1;2;;;

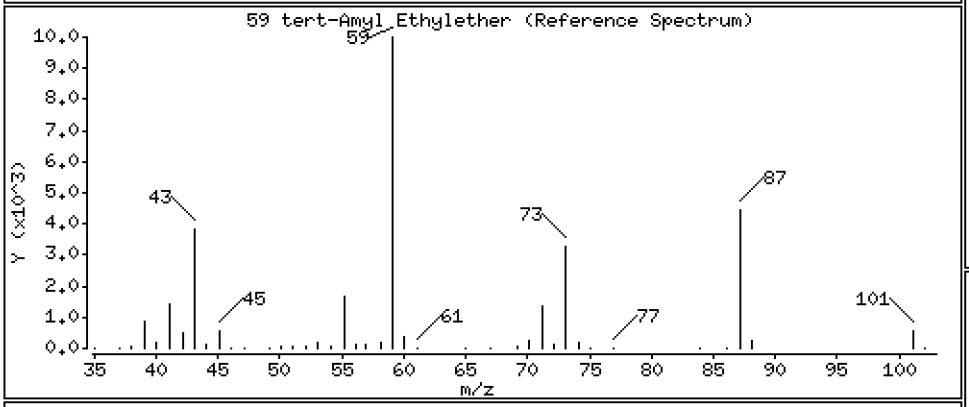
Purge Volume: 5.0 Operator: CJG

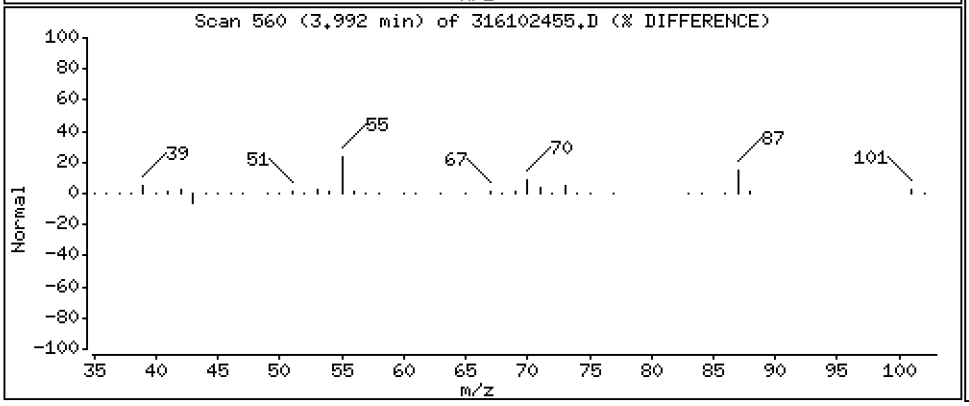
Column phase: DB-VRX Column diameter: 0.25

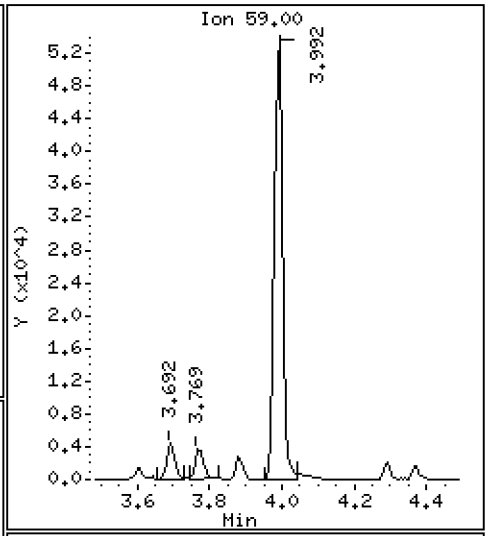
59 tert-Amyl Ethylether Concentration: 4.48425 ug/L

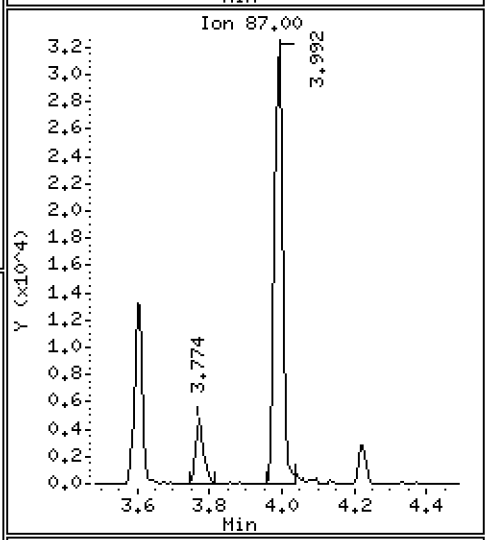


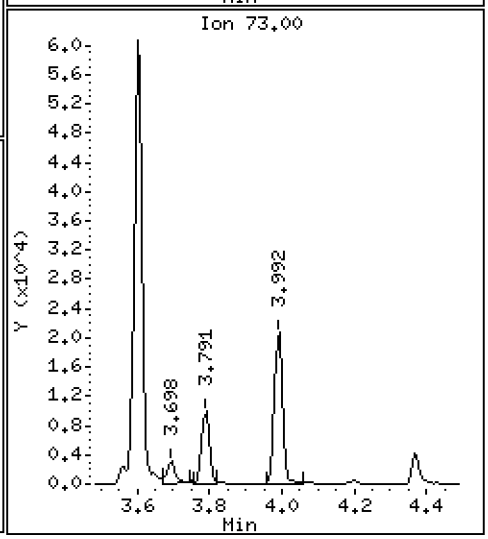












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 65

Date : 25-OCT-2016 00:08

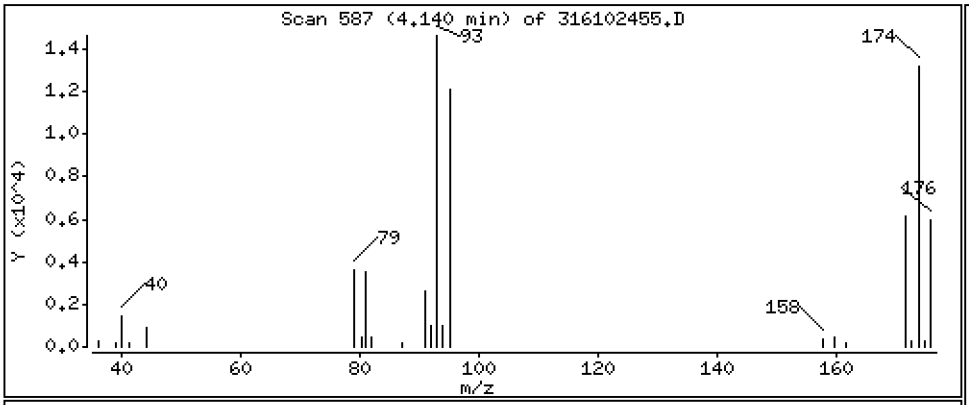
Client ID: Instrument: ms03.i

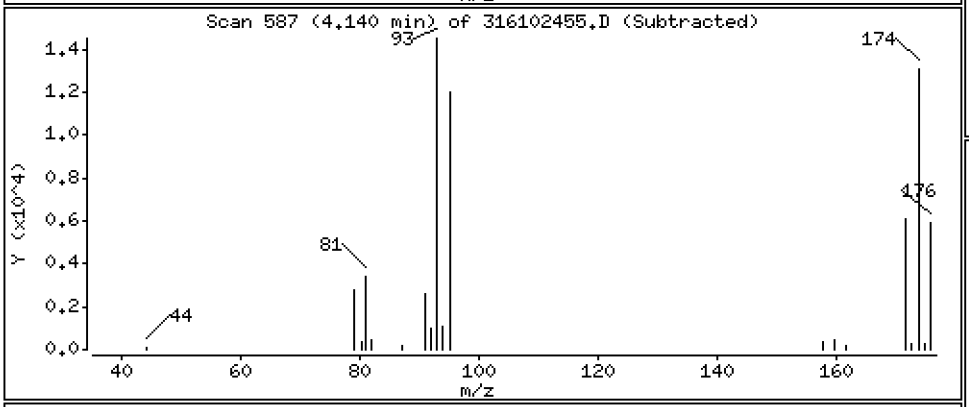
Sample Info: 1235;;1;1;2;;;

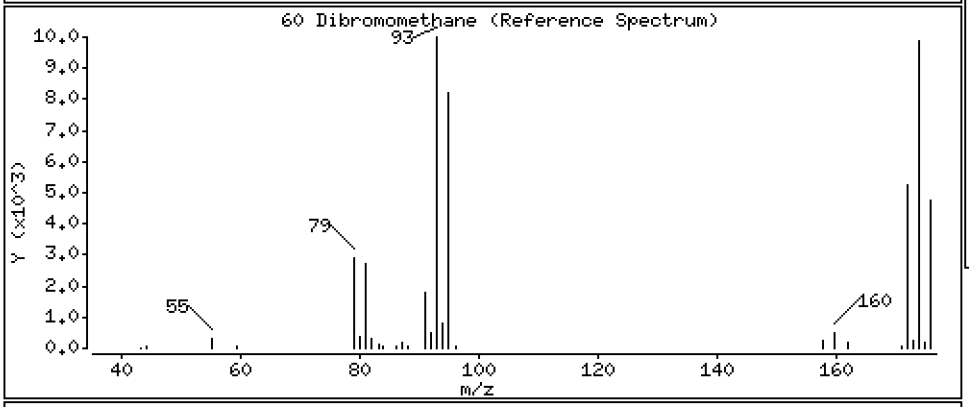
Purge Volume: 5.0 Operator: CJG

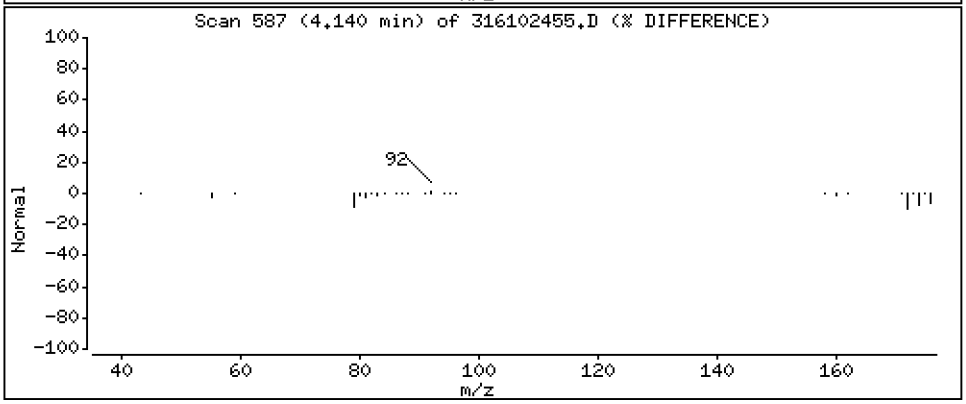
Column phase: DB-VRX Column diameter: 0.25

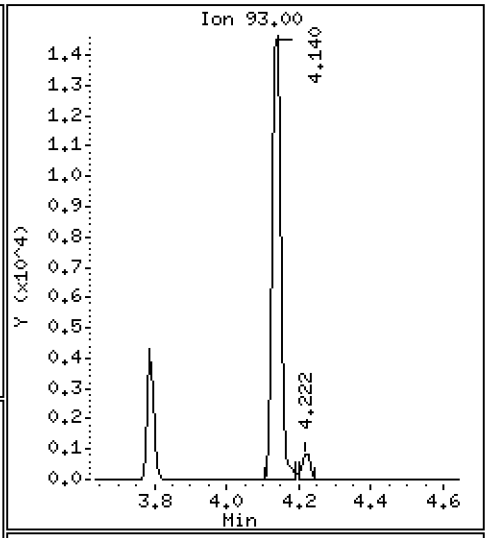
60 Dibromomethane Concentration: 5.07669 ug/L

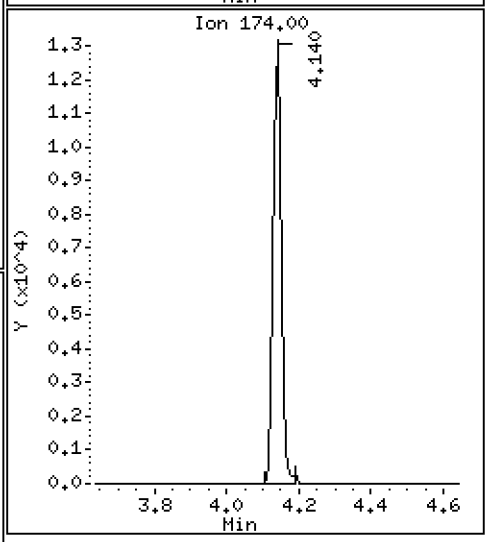












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 66

Date : 25-OCT-2016 00:08

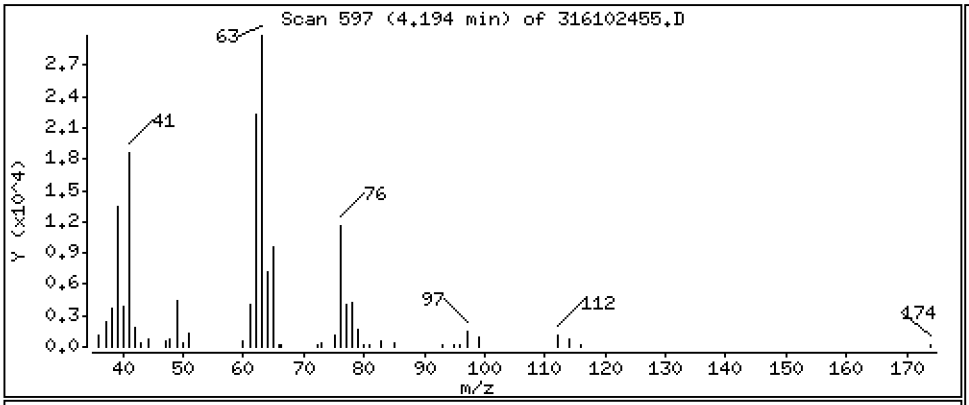
Client ID: Instrument: ms03.i

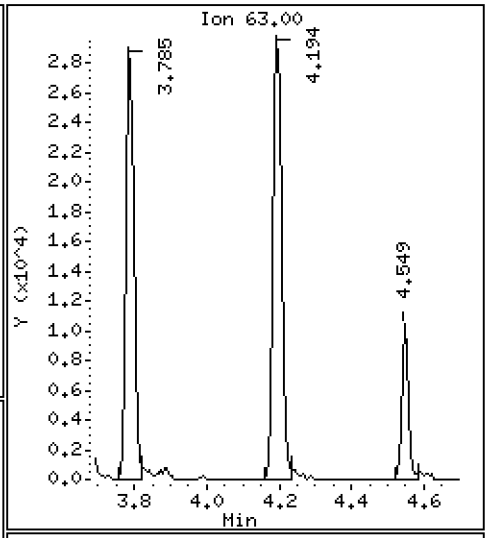
Sample Info: 1235;;1;1;2;;;

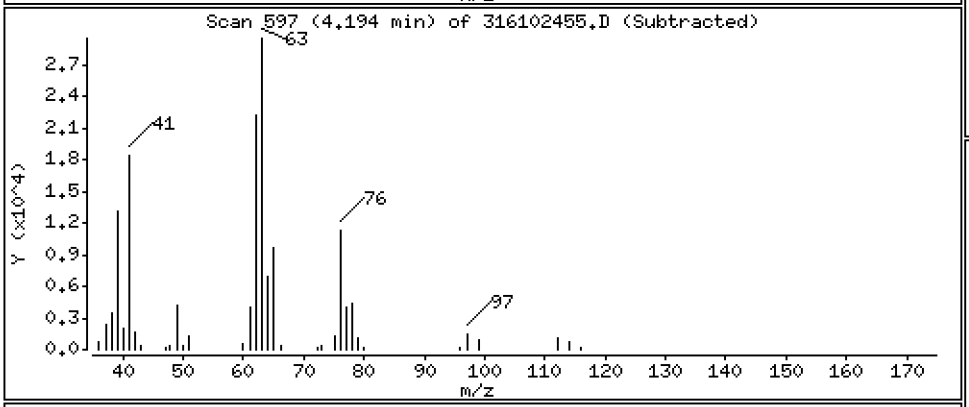
Purge Volume: 5.0 Operator: CJG

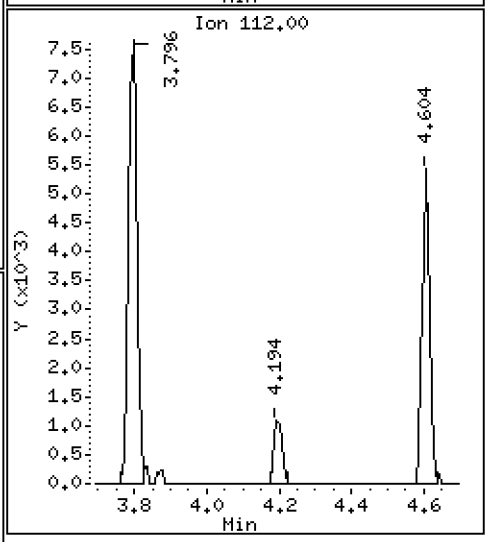
Column phase: DB-VRX Column diameter: 0.25

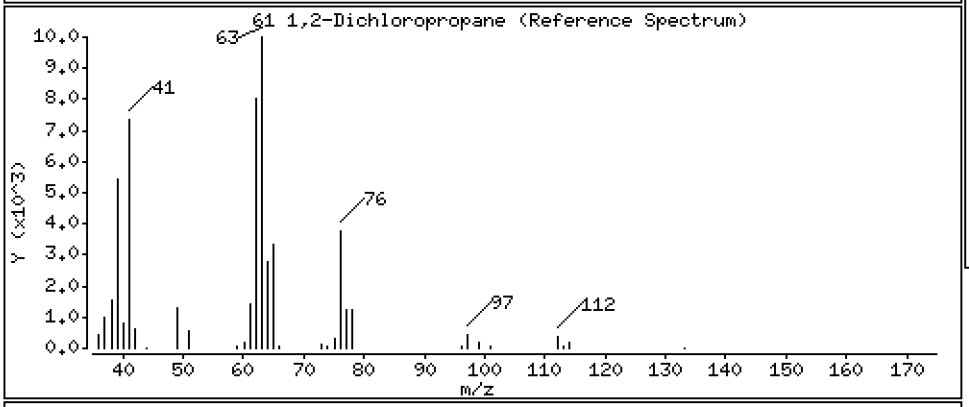
61 1,2-Dichloropropane Concentration: 4.99016 ug/L

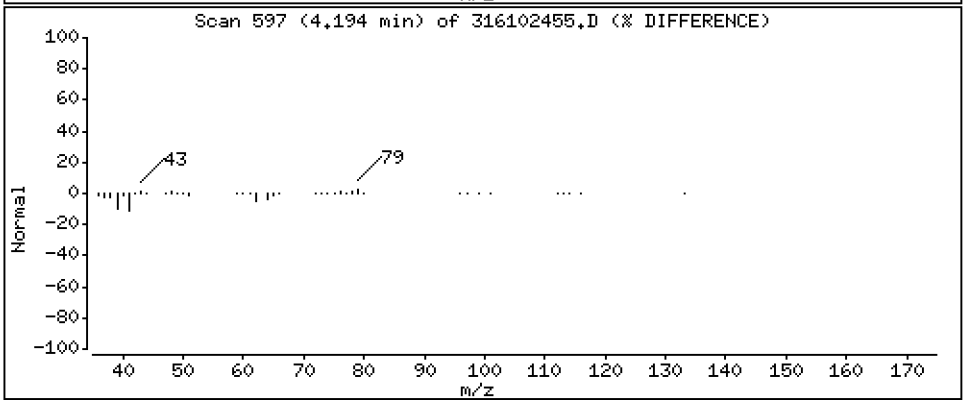












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 67

Date : 25-OCT-2016 00:08

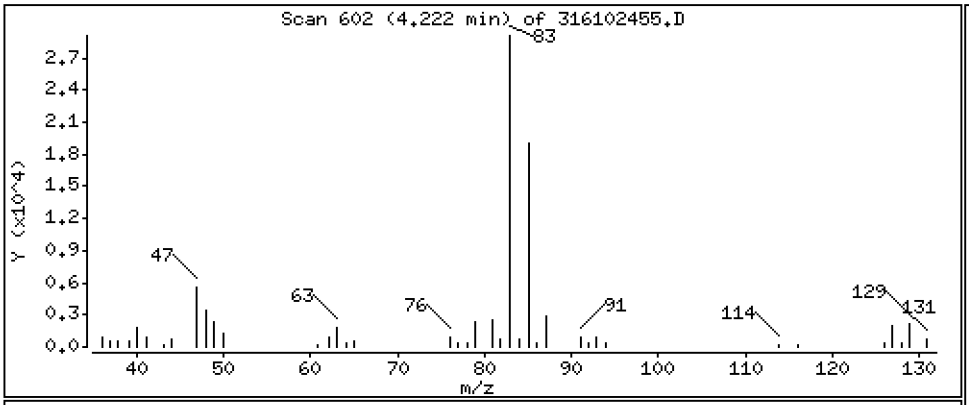
Client ID: Instrument: ms03.i

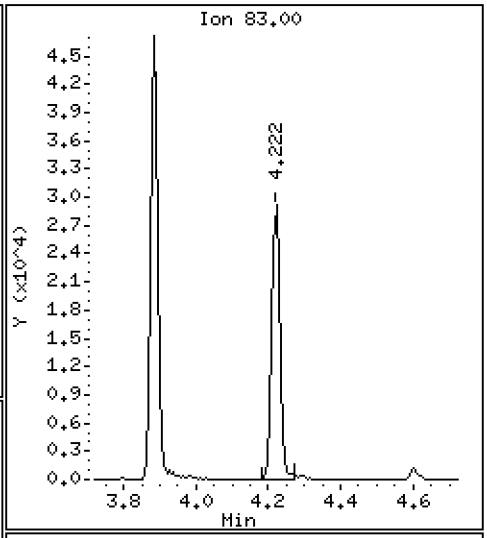
Sample Info: 1235;;1;1;2;;;

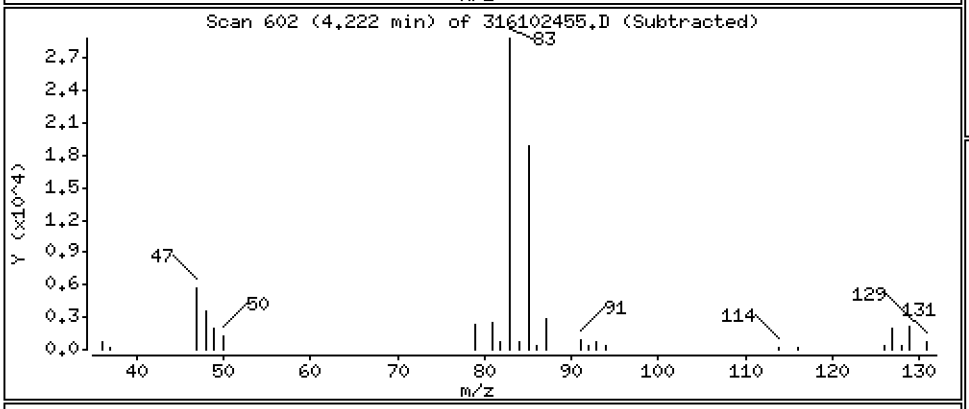
Purge Volume: 5.0 Operator: CJG

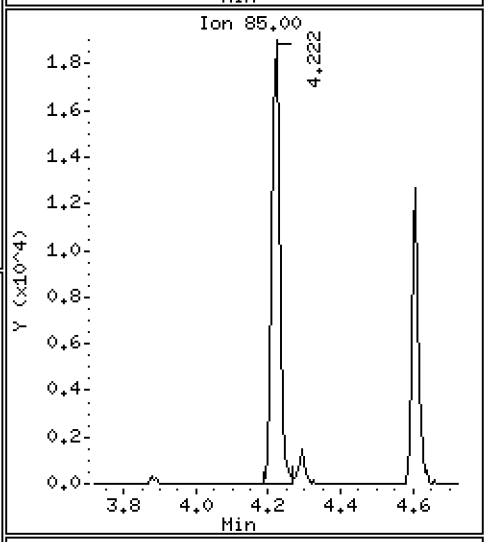
Column phase: DB-VRX Column diameter: 0.25

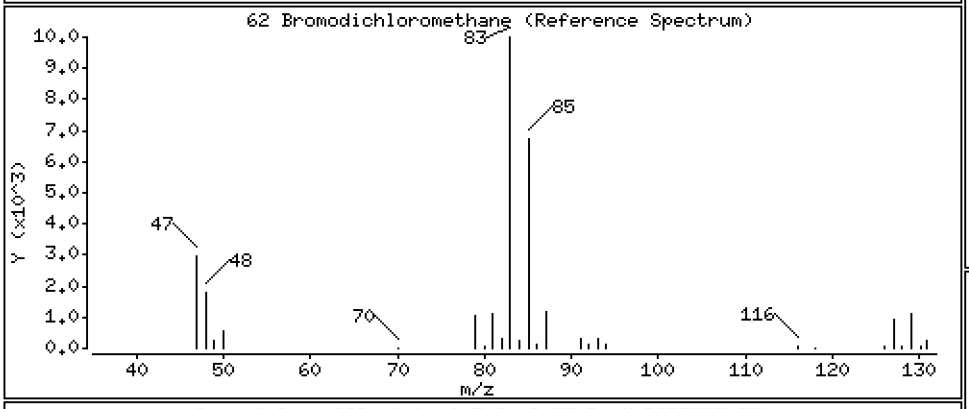
62 Bromodichloromethane Concentration: 4.48588 ug/L

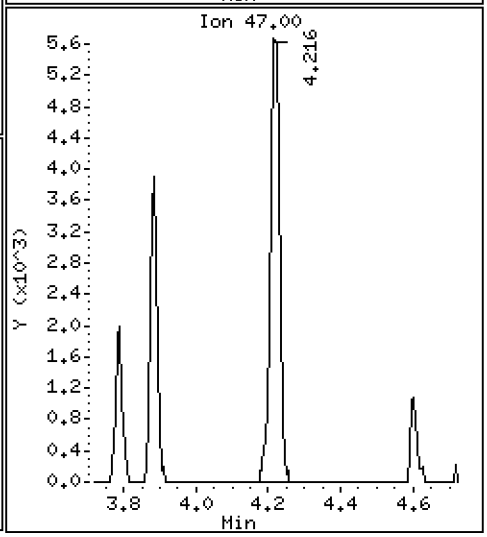


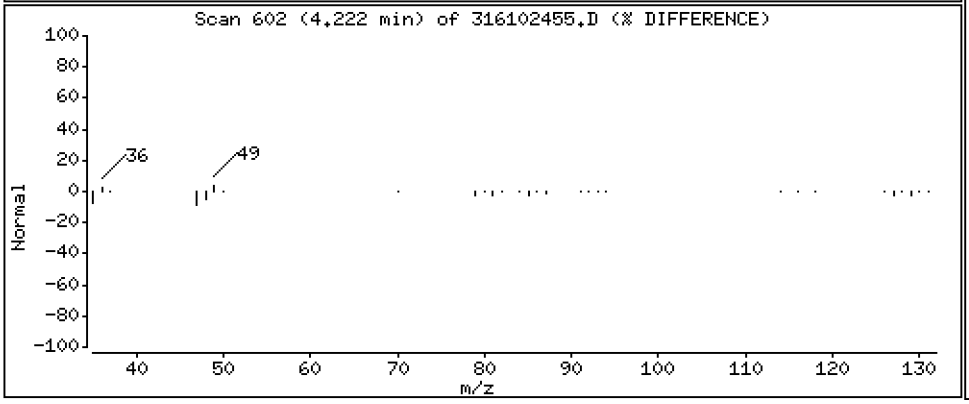












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 68

Date : 25-OCT-2016 00:08

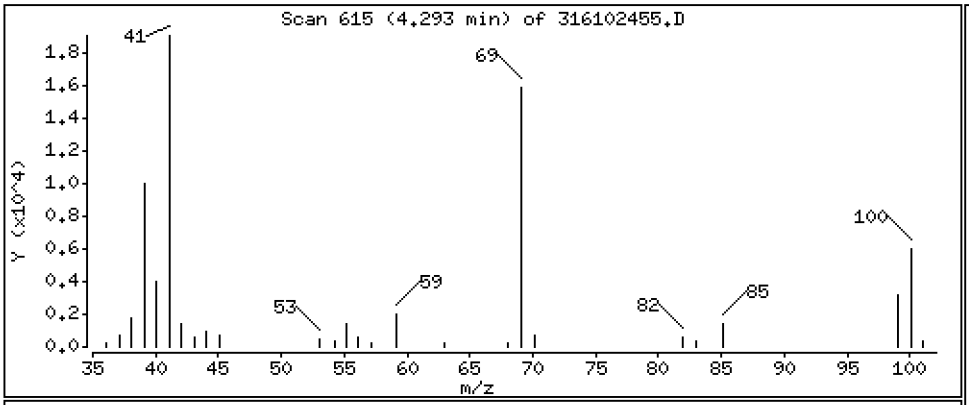
Client ID: Instrument: ms03.i

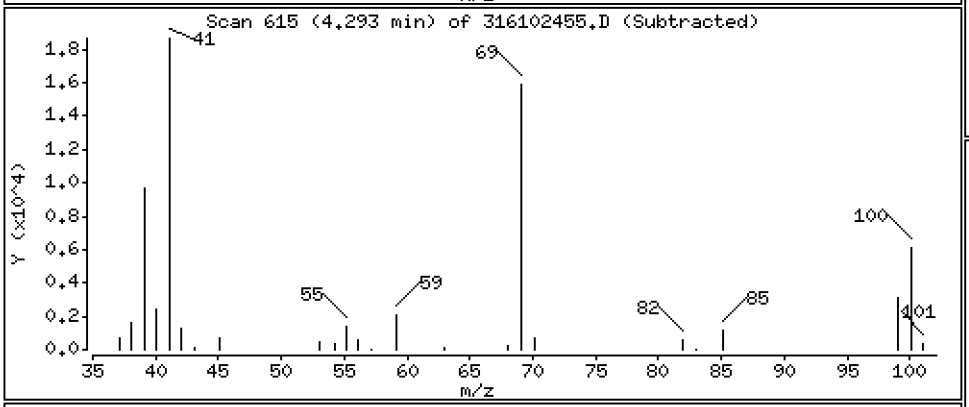
Sample Info: 1235;;1;1;2;;;

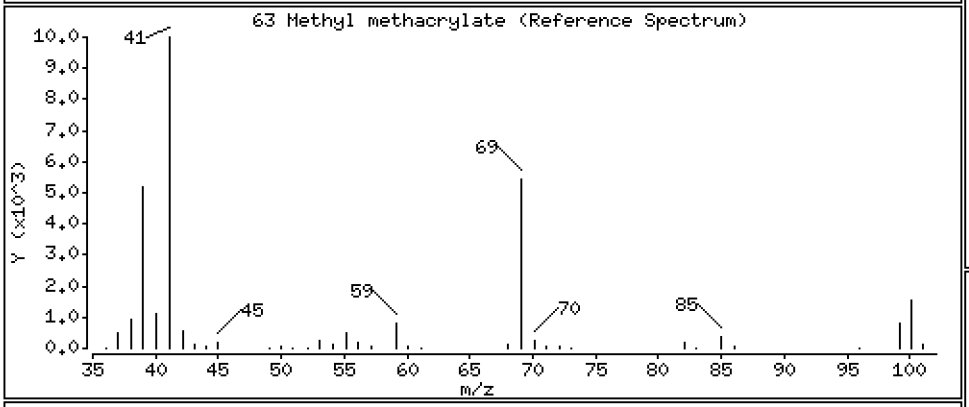
Purge Volume: 5.0 Operator: CJG

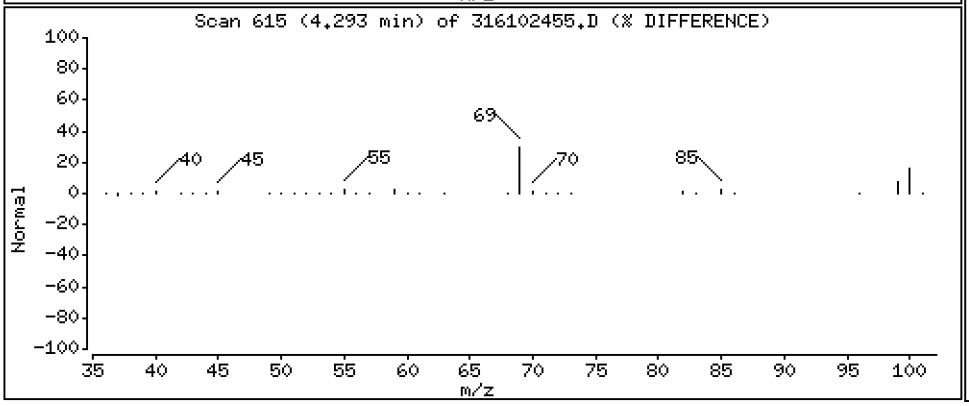
Column phase: DB-VRX Column diameter: 0.25

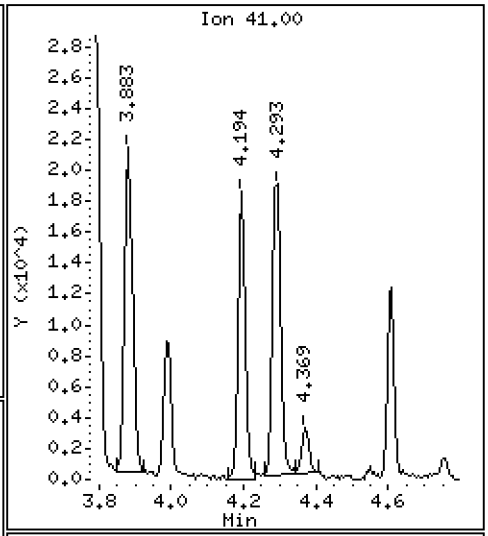
63 Methyl methacrylate Concentration: 4.09792 ug/L

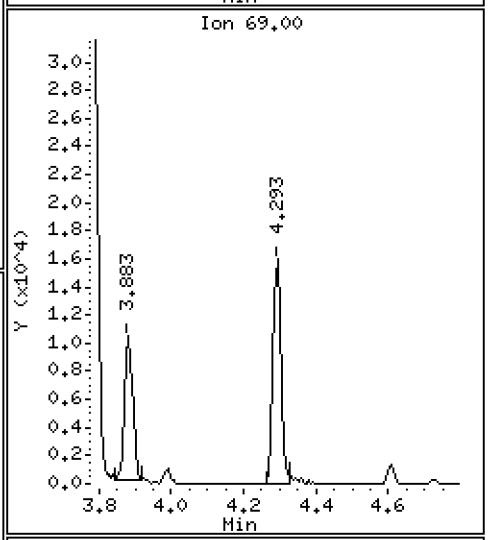


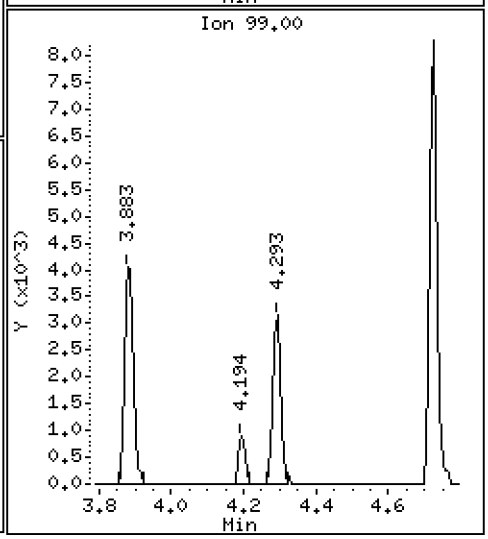












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 69

Date : 25-OCT-2016 00:08

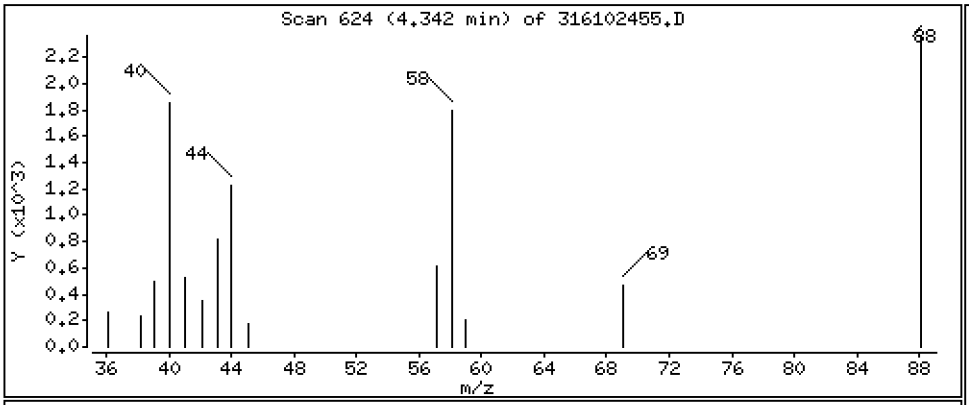
Client ID: Instrument: ms03.i

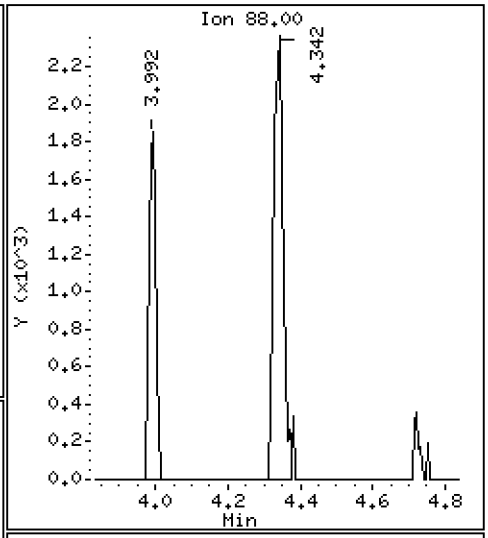
Sample Info: 1235;;1;1;2;;;

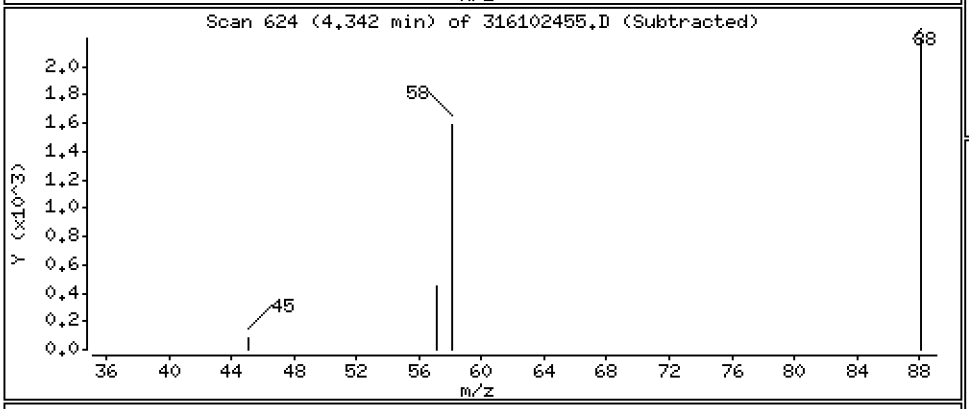
Purge Volume: 5.0 Operator: CJG

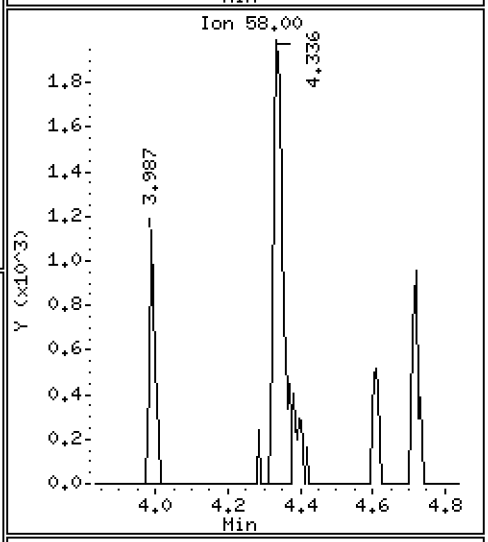
Column phase: DB-VRX Column diameter: 0.25

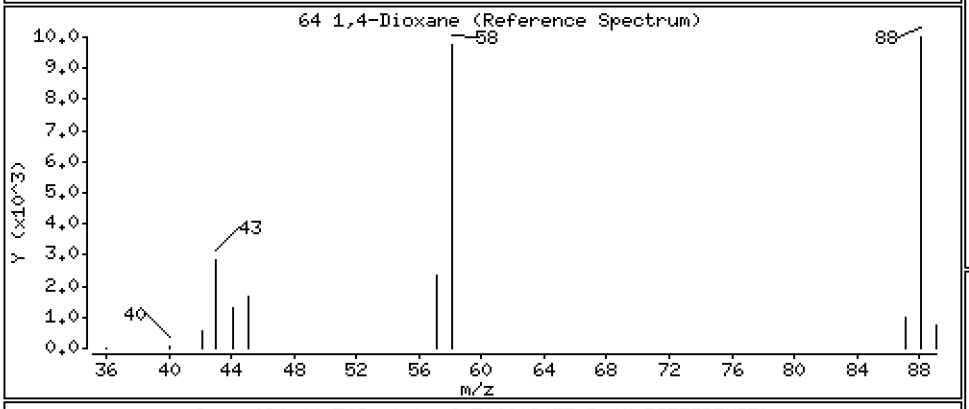
64 1,4-Dioxane Concentration: 120.749 ug/L

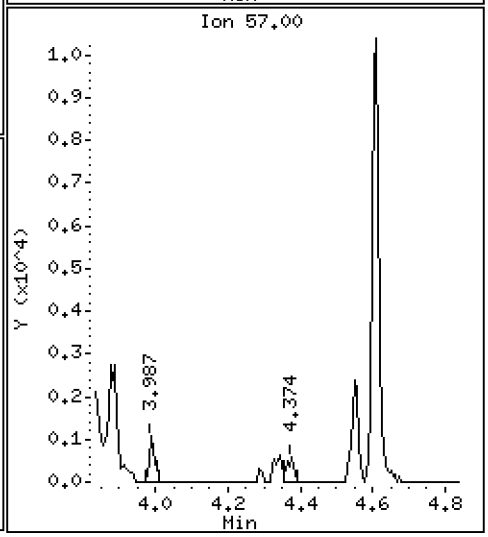


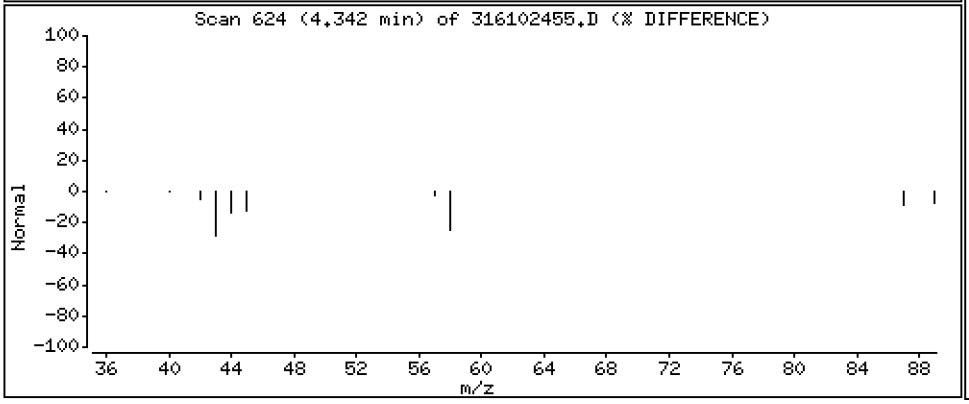












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 70

Date : 25-OCT-2016 00:08

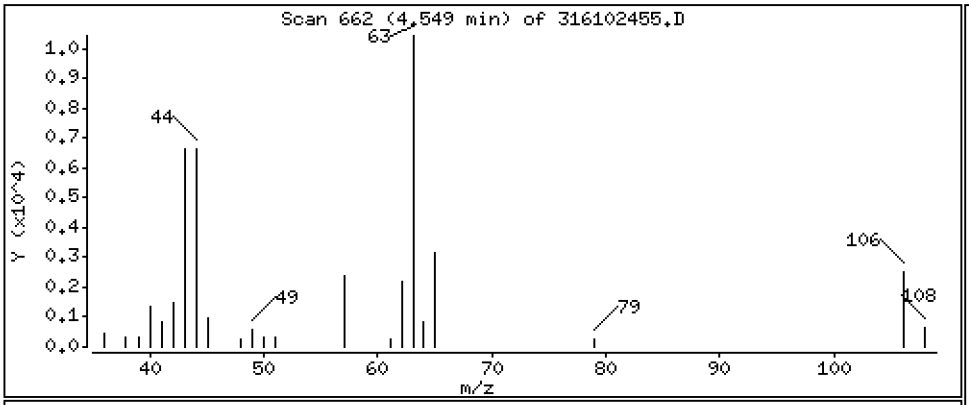
Client ID: Instrument: ms03.i

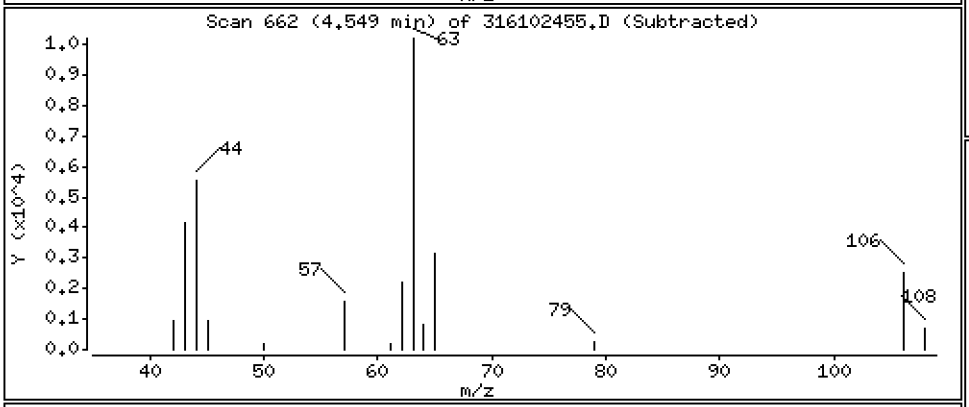
Sample Info: 1235;;1;1;2;;;

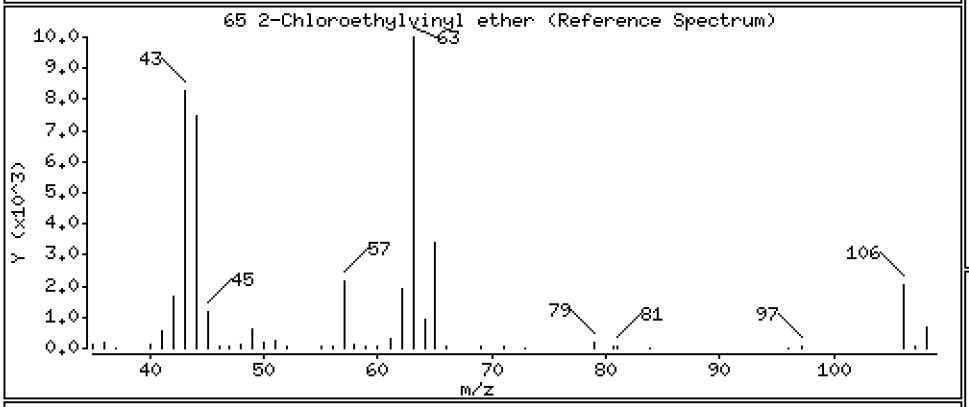
Purge Volume: 5.0 Operator: CJG

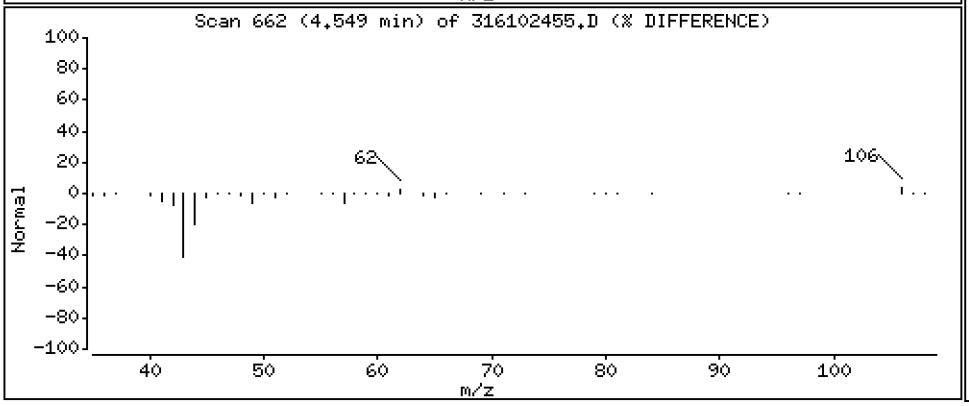
Column phase: DB-VRX Column diameter: 0.25

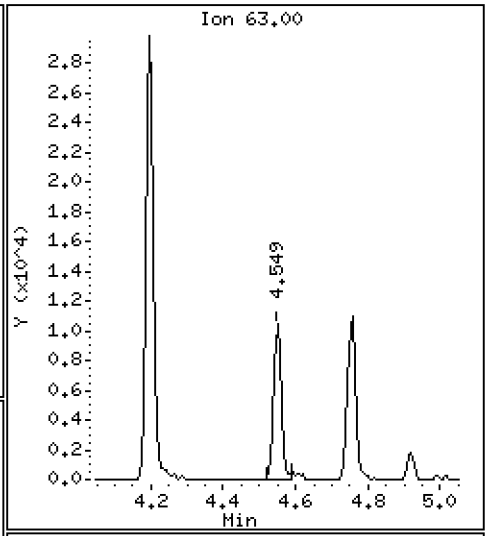
65 2-Chloroethylvinyl ether Concentration: 3.45759 ug/L

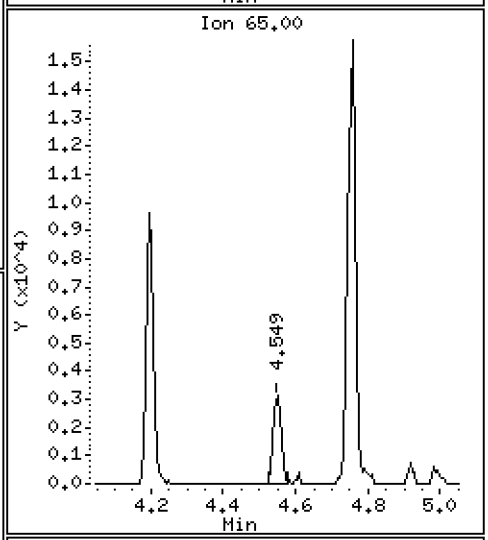


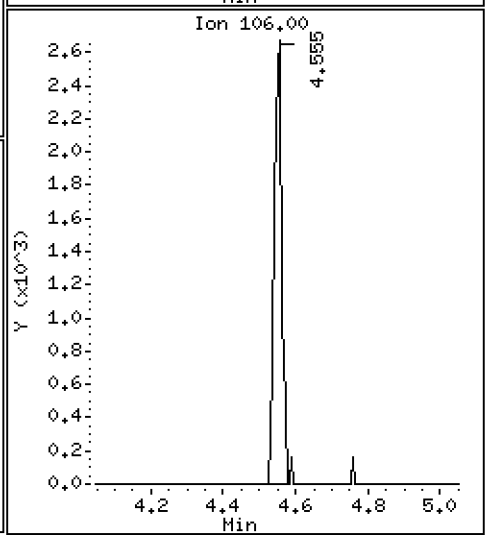












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 71

Date : 25-OCT-2016 00:08

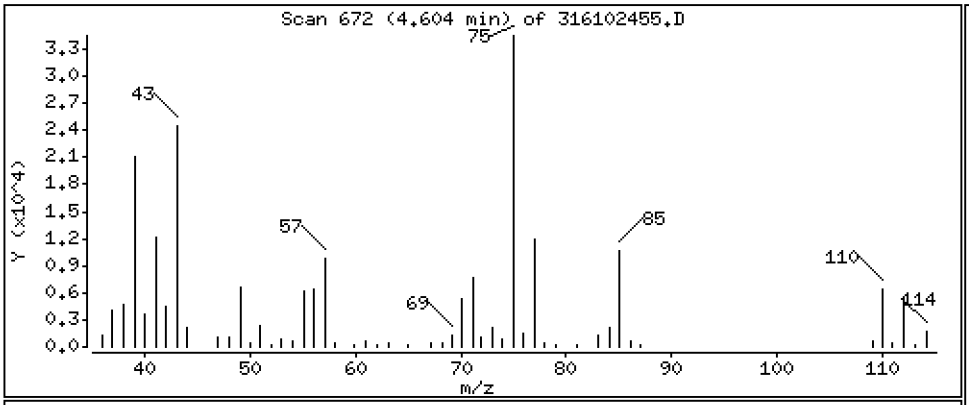
Client ID: Instrument: ms03.i

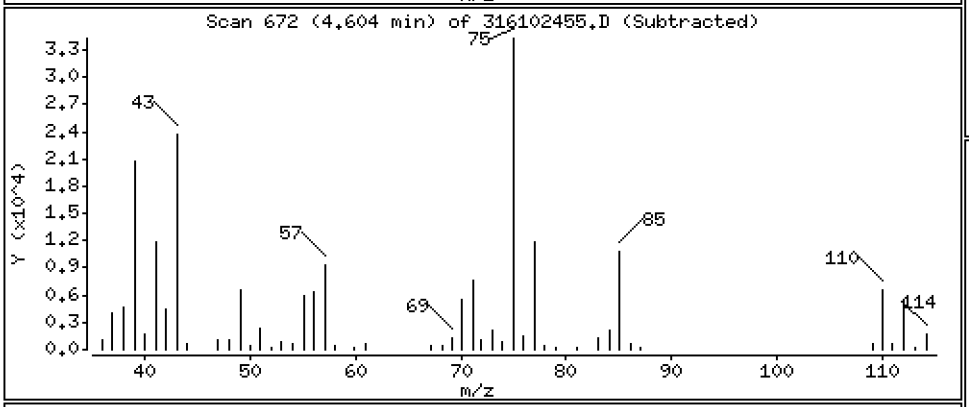
Sample Info: 1235;;1;1;2;;;

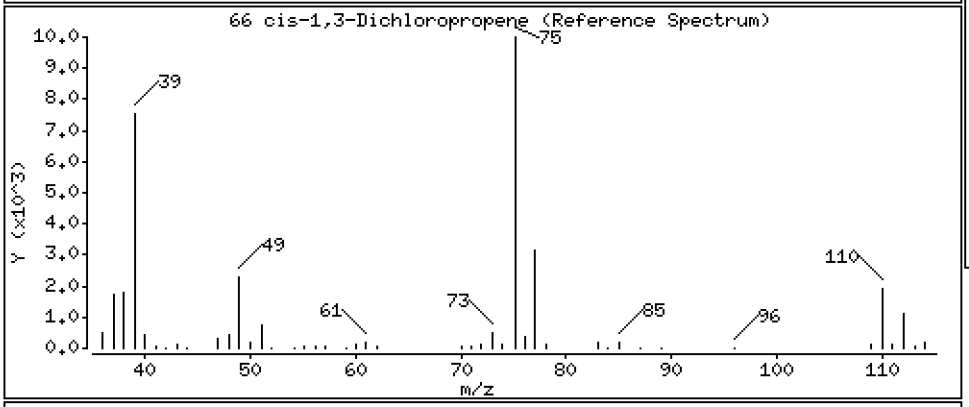
Purge Volume: 5.0 Operator: CJG

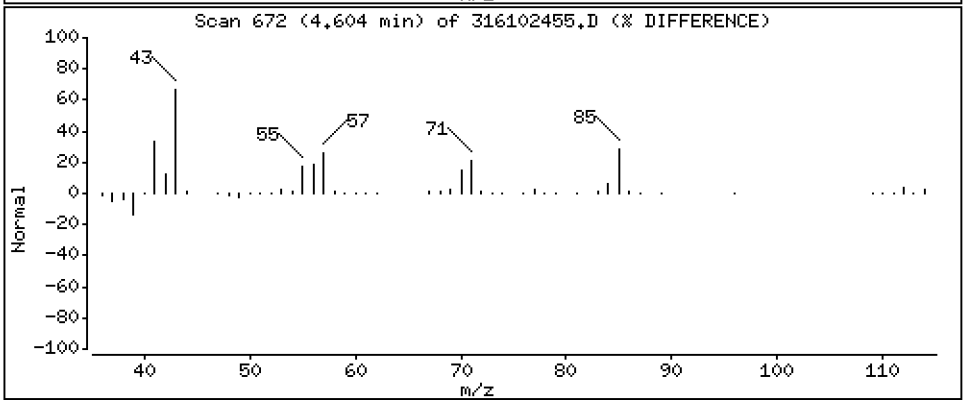
Column phase: DB-VRX Column diameter: 0.25

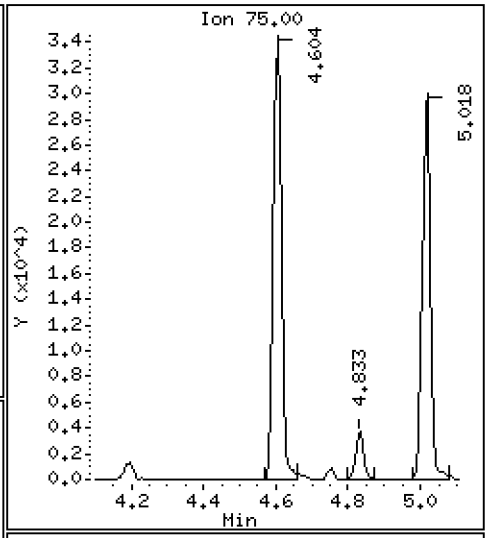
66 cis-1,3-Dichloropropene Concentration: 4.15473 ug/L

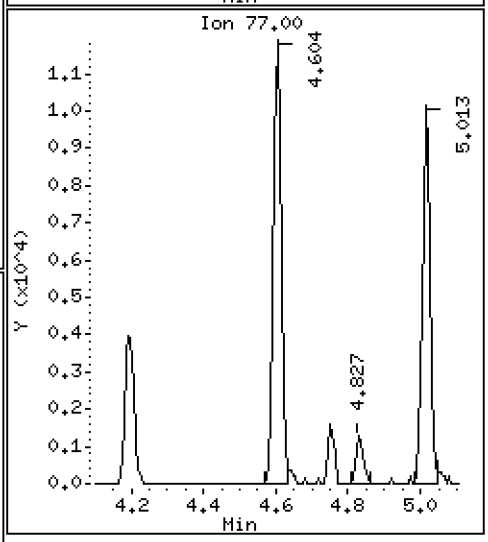












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 72

Date : 25-OCT-2016 00:08

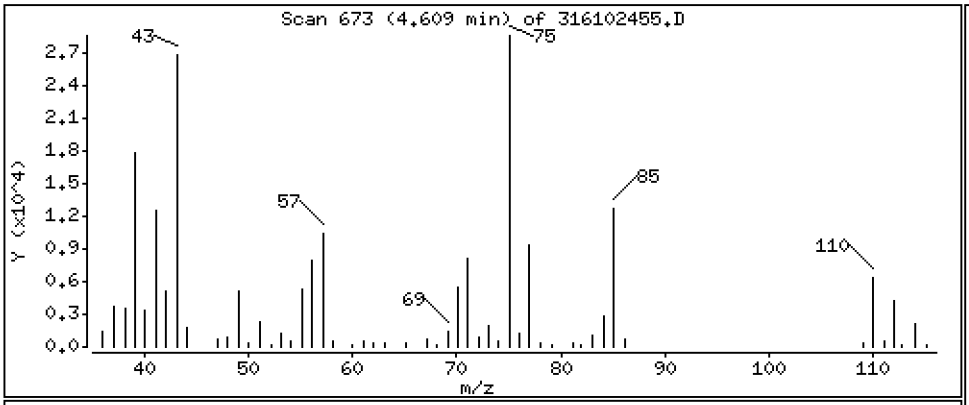
Client ID: Instrument: ms03.i

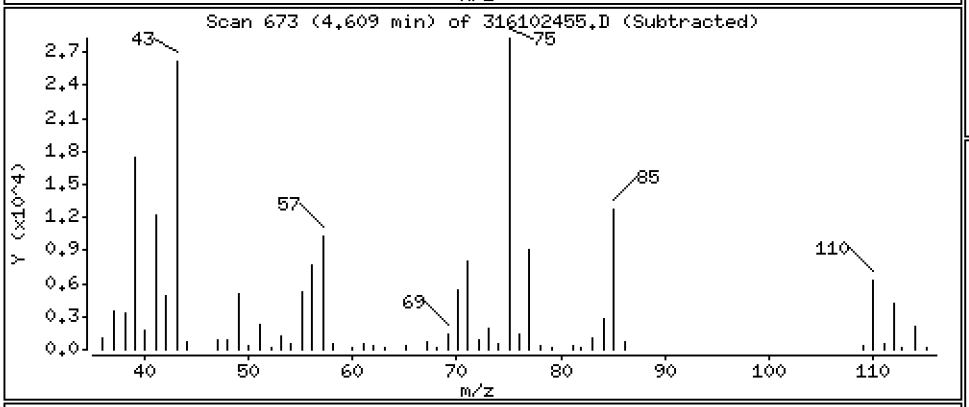
Sample Info: 1235;;1;1;2;;;

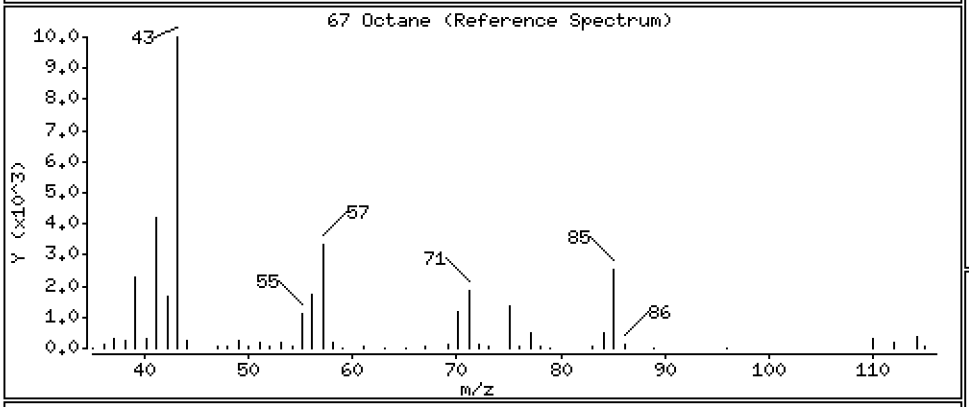
Purge Volume: 5.0 Operator: CJG

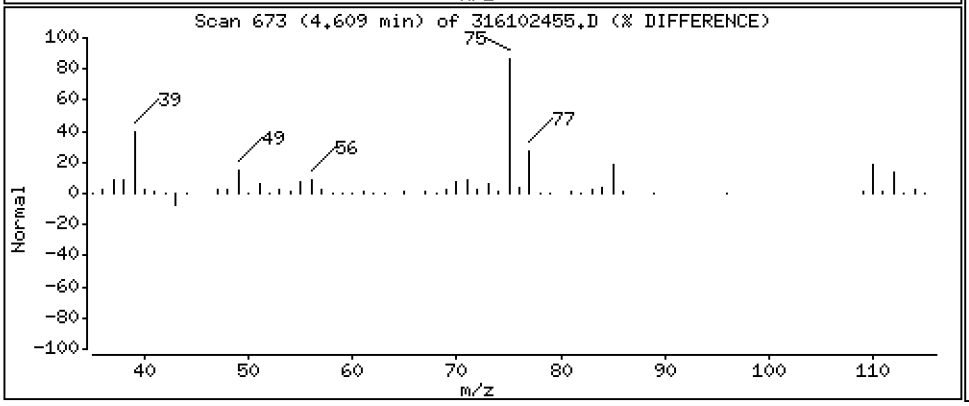
Column phase: DB-VRX Column diameter: 0.25

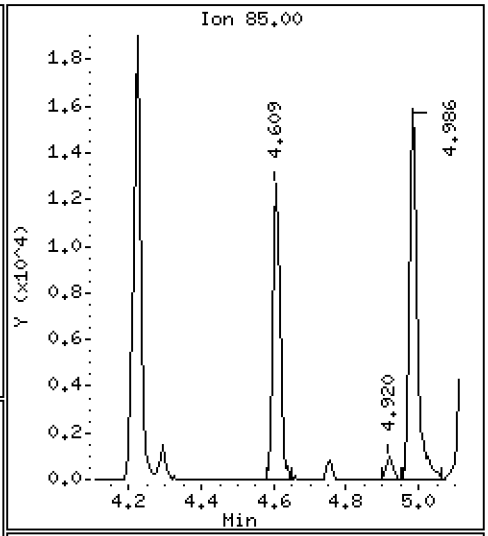
67 Octane Concentration: 4.70949 ug/L

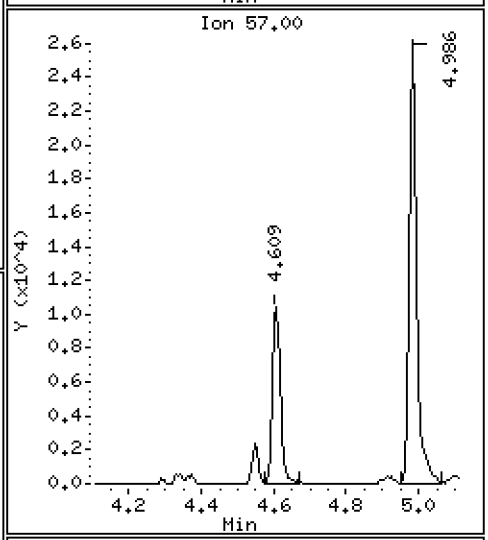


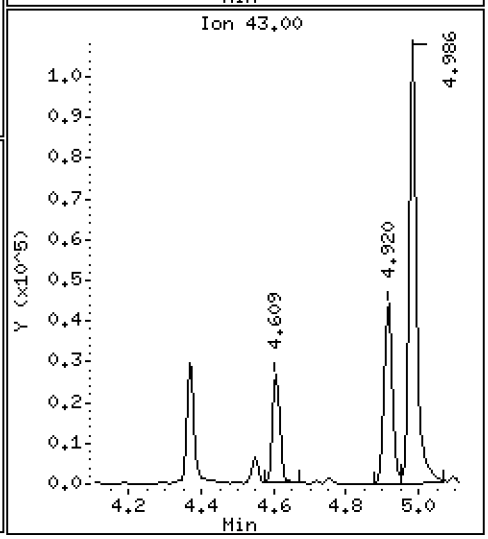












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 73

Date : 25-OCT-2016 00:08

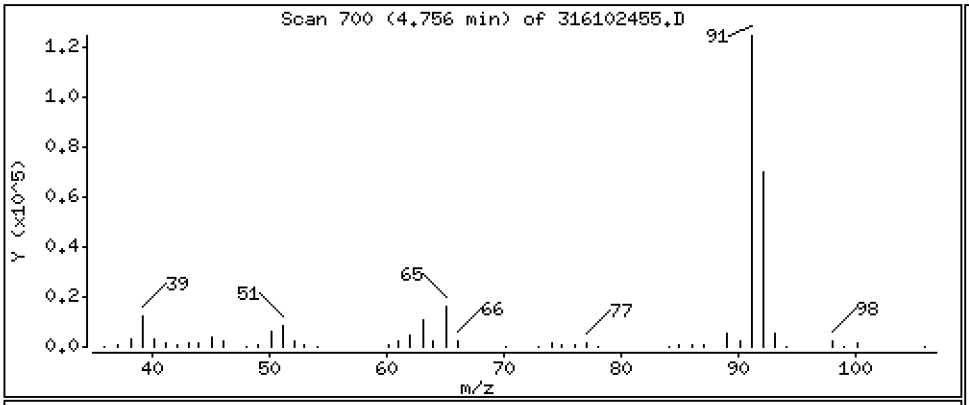
Client ID: Instrument: ms03.i

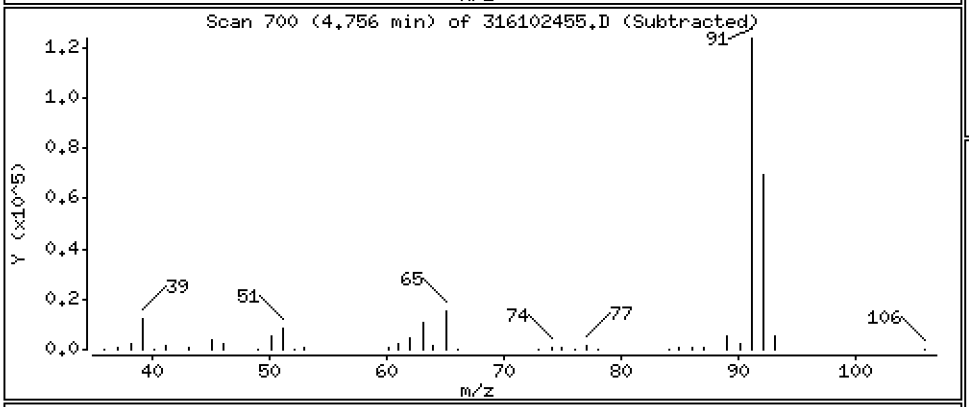
Sample Info: 1235;;1;1;2;;;

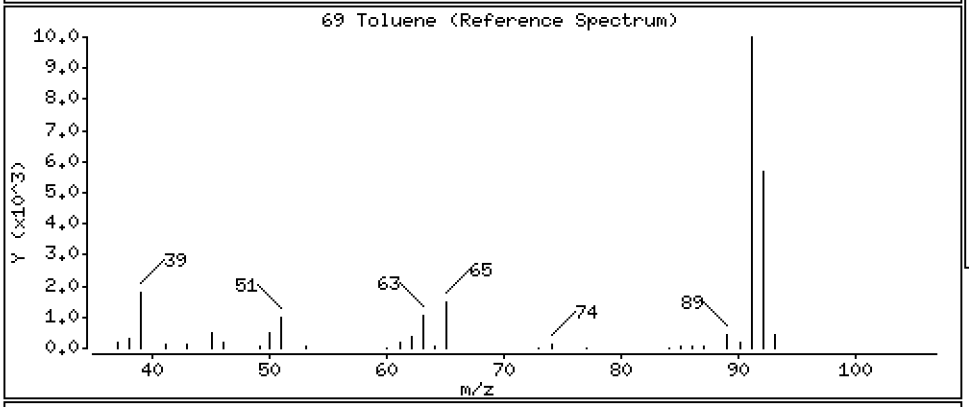
Purge Volume: 5.0 Operator: CJG

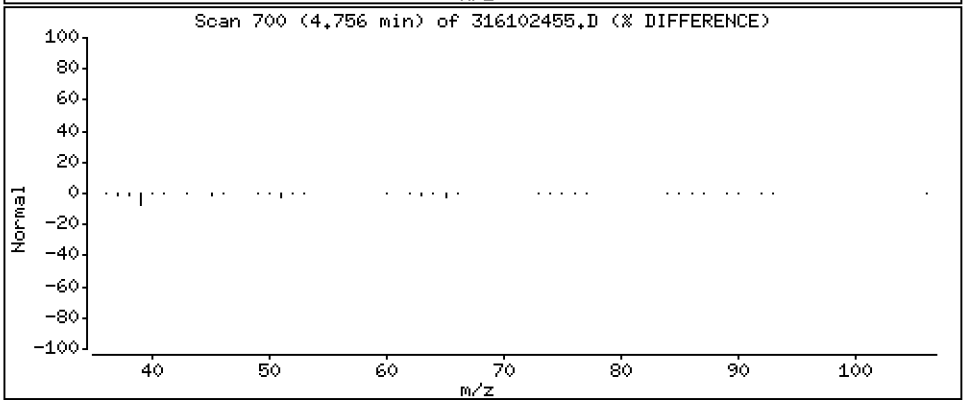
Column phase: DB-VRX Column diameter: 0.25

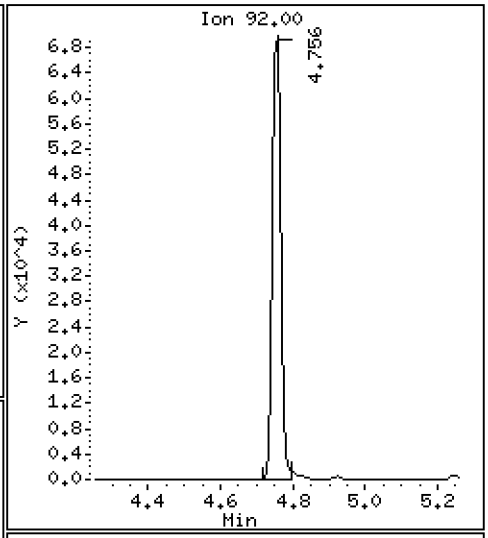
69 Toluene Concentration: 5.39713 ug/L

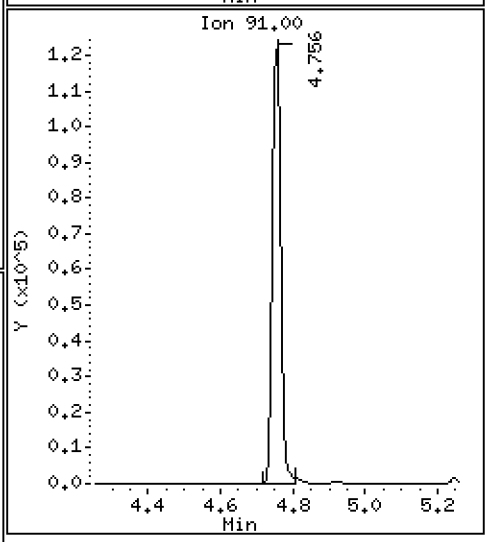












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 74

Date : 25-OCT-2016 00:08

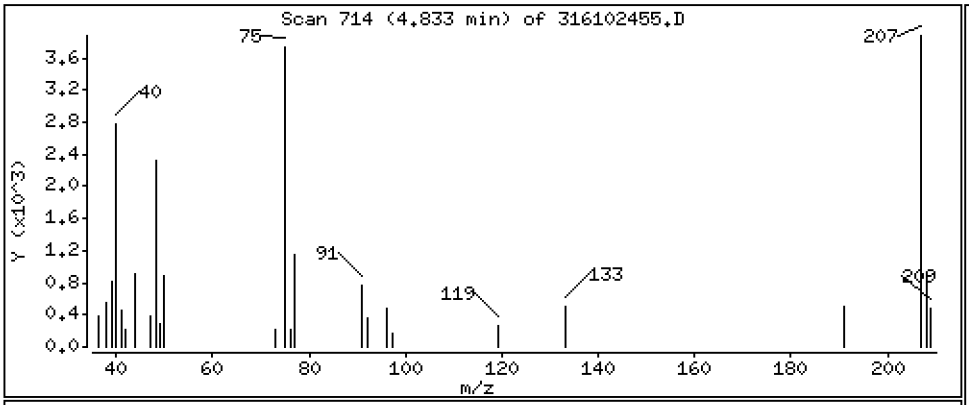
Client ID: Instrument: ms03.i

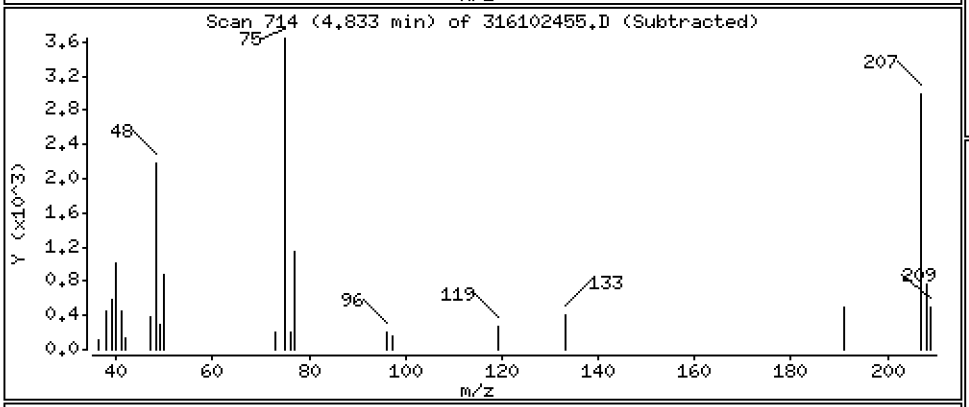
Sample Info: 1235;;1;1;2;;;

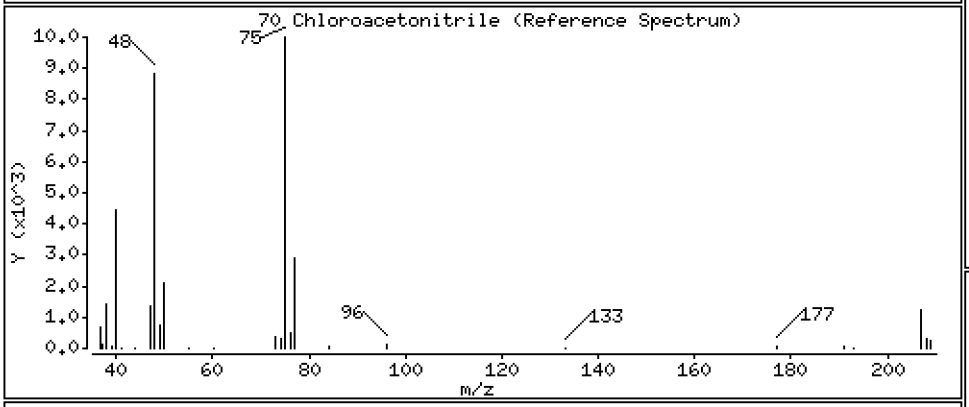
Purge Volume: 5.0 Operator: CJG

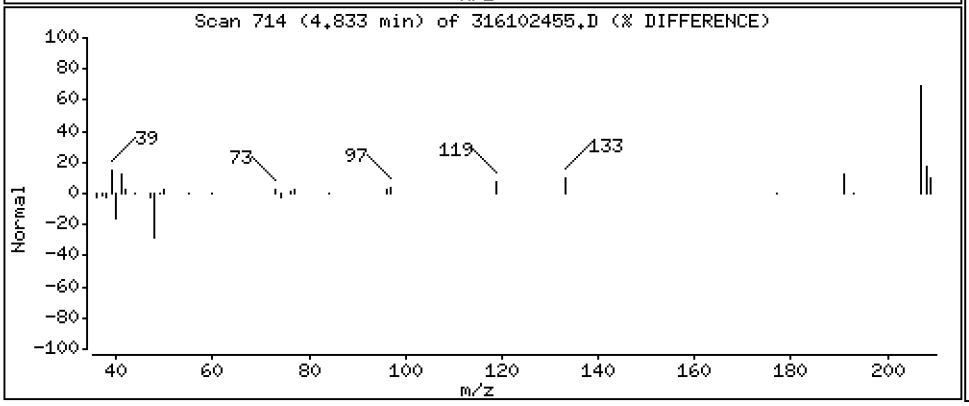
Column phase: DB-VRX Column diameter: 0.25

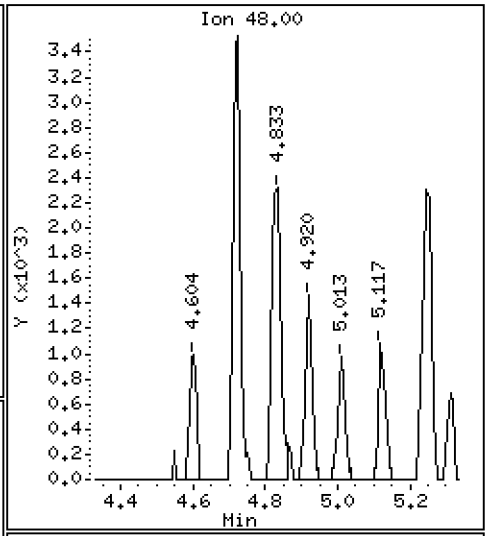
70 Chloroacetonitrile Concentration: 21.0508 ug/L

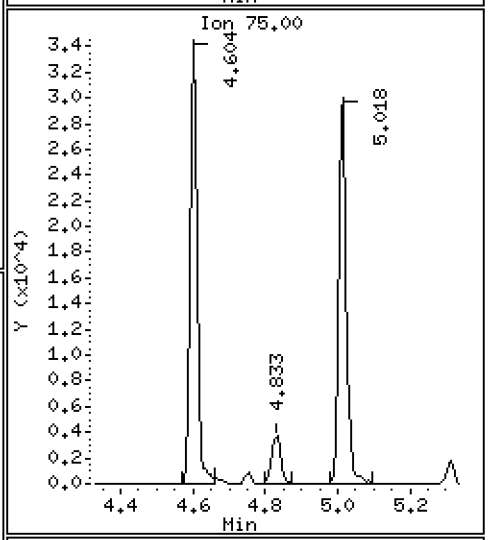


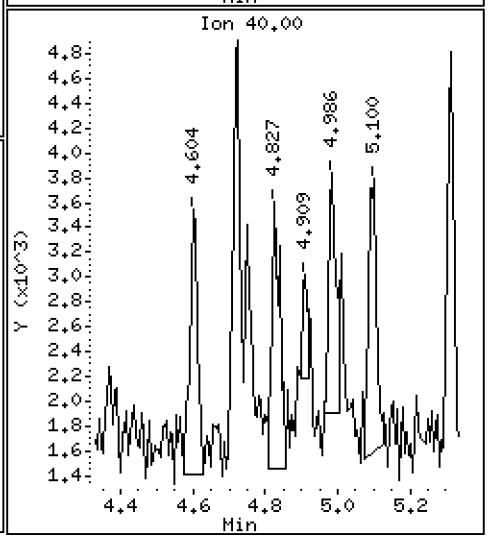












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 75

Date : 25-OCT-2016 00:08

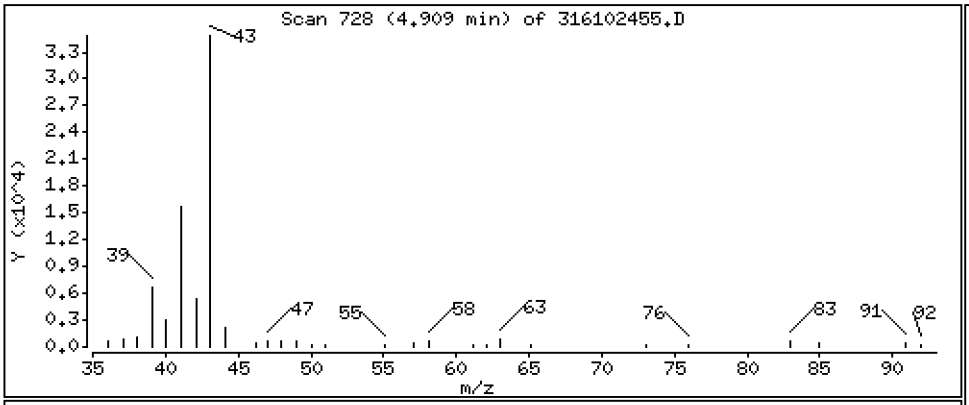
Client ID: Instrument: ms03.i

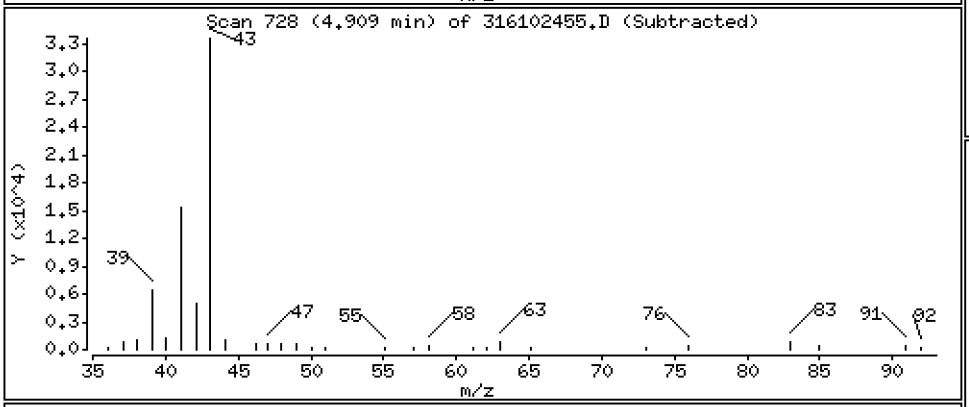
Sample Info: 1235;;1;1;2;;;

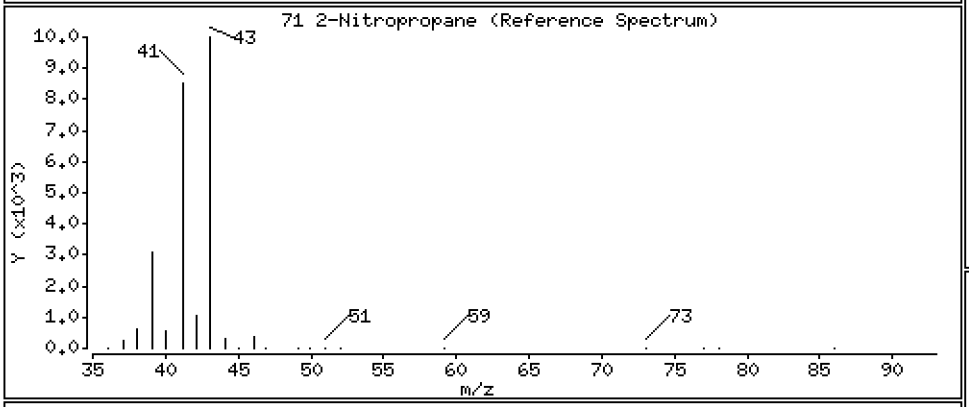
Purge Volume: 5.0 Operator: CJG

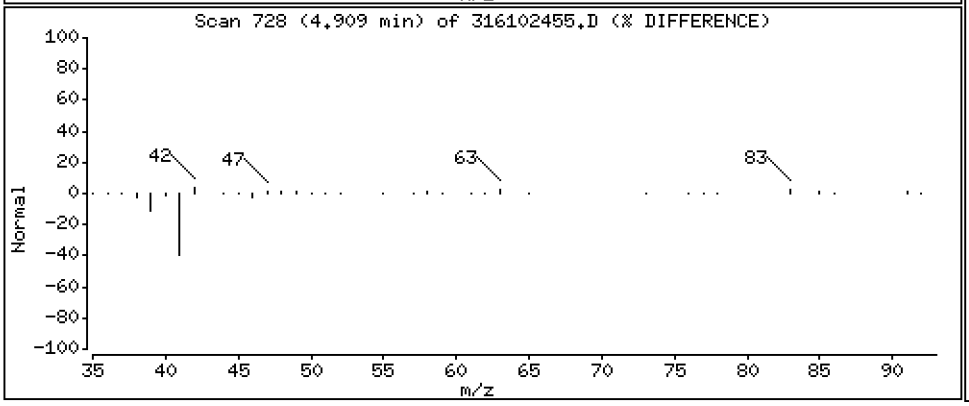
Column phase: DB-VRX Column diameter: 0.25

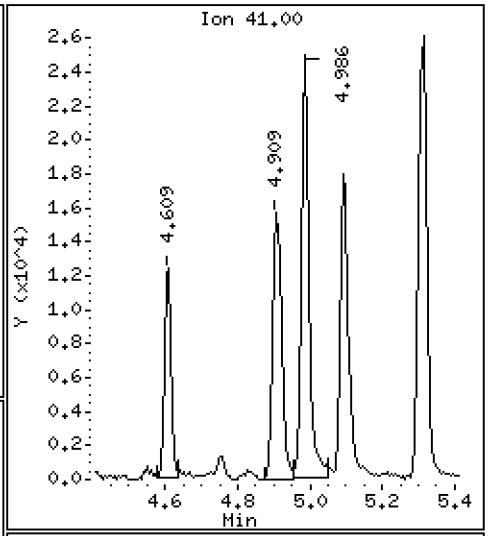
71 2-Nitropropane Concentration: 18.5117 ug/L

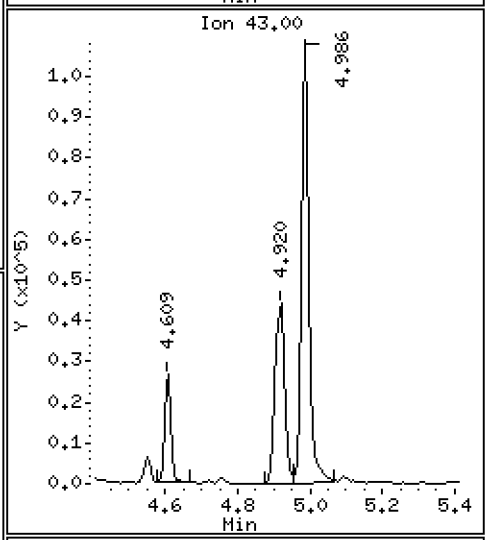


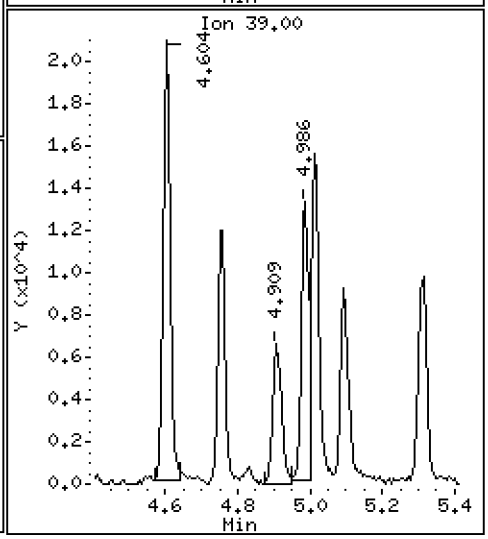












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 76

Date : 25-OCT-2016 00:08

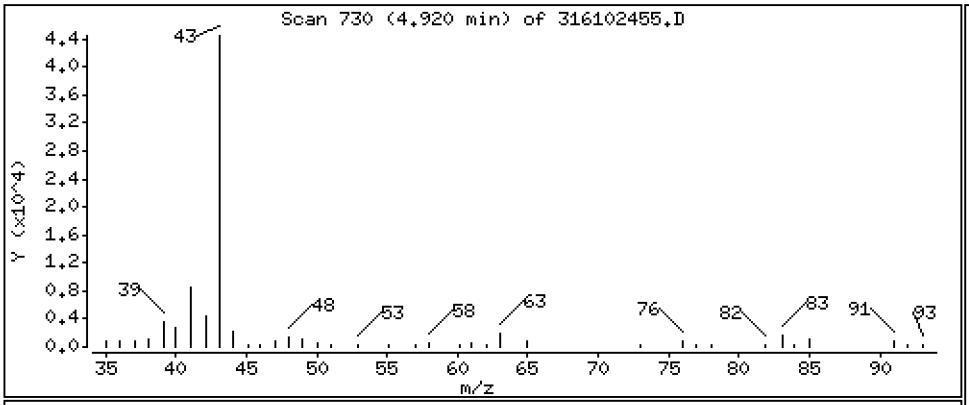
Client ID: Instrument: ms03.i

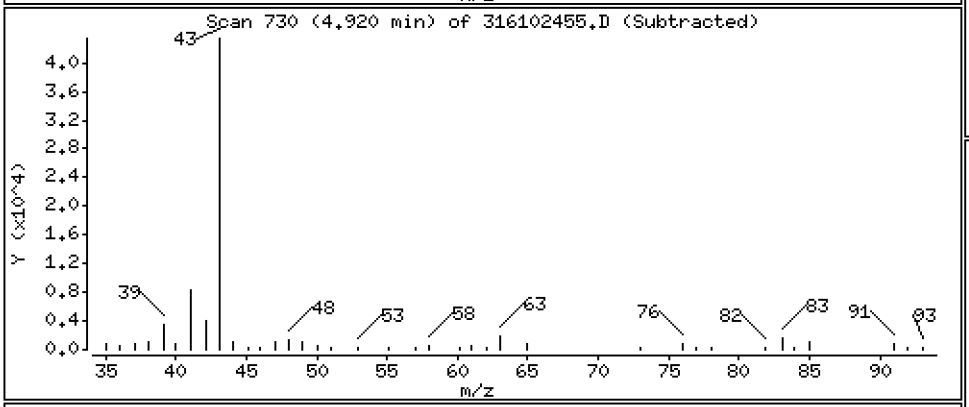
Sample Info: 1235;;1;1;2;;;

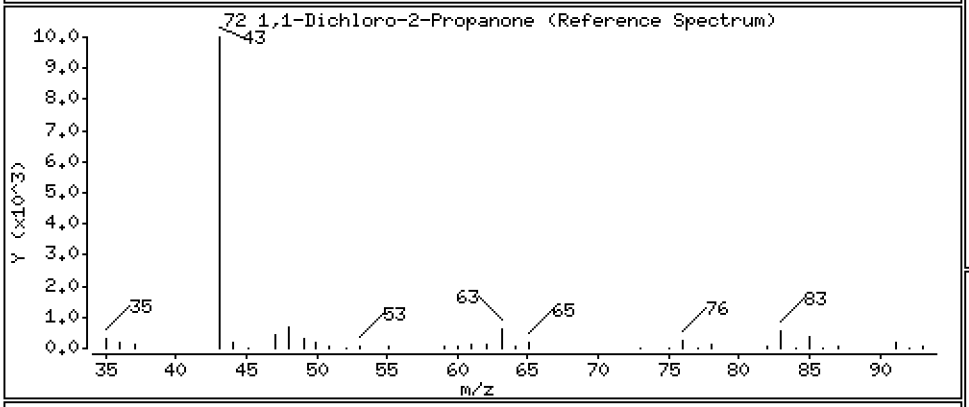
Purge Volume: 5.0 Operator: CJG

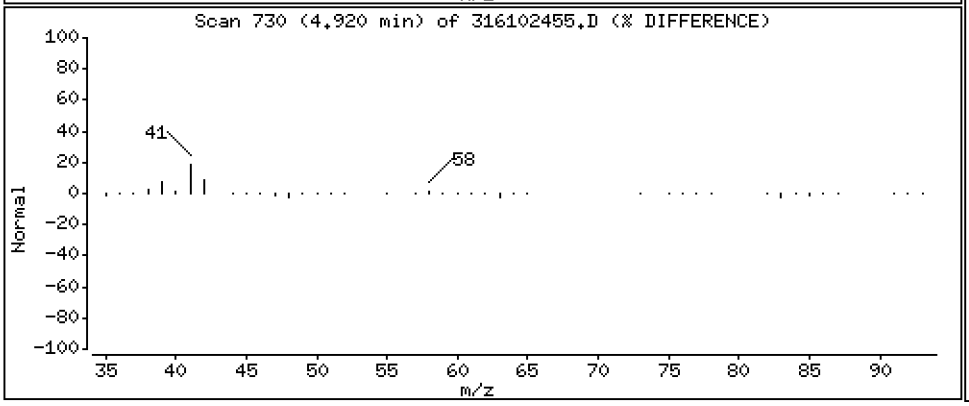
Column phase: DB-VRX Column diameter: 0.25

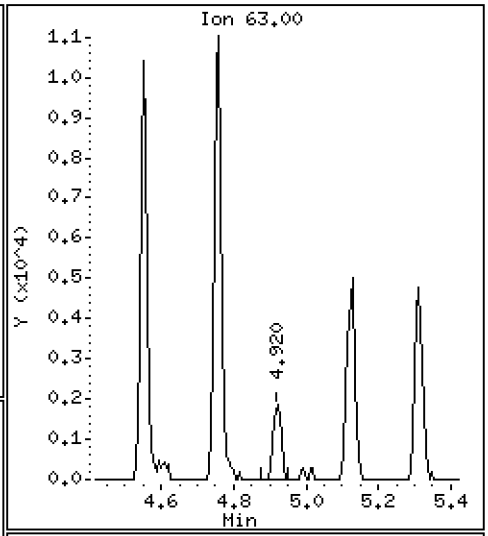
72 1,1-Dichloro-2-Propanone Concentration: 19.7526 ug/L

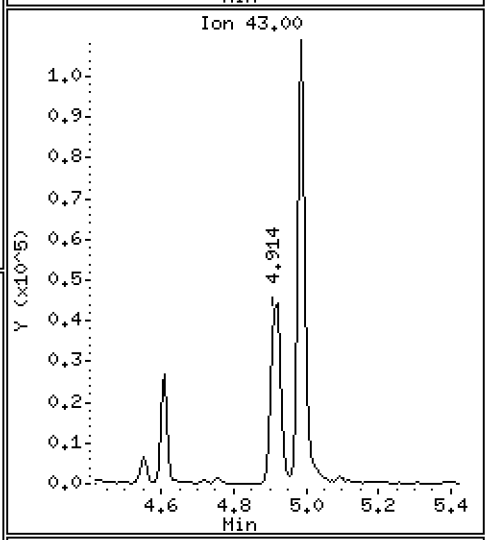


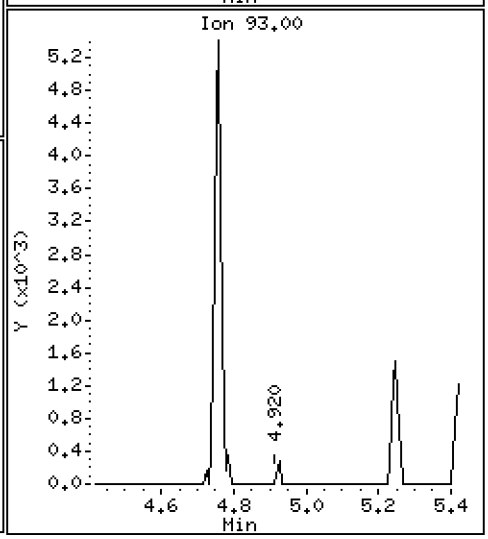












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 77

Date : 25-OCT-2016 00:08

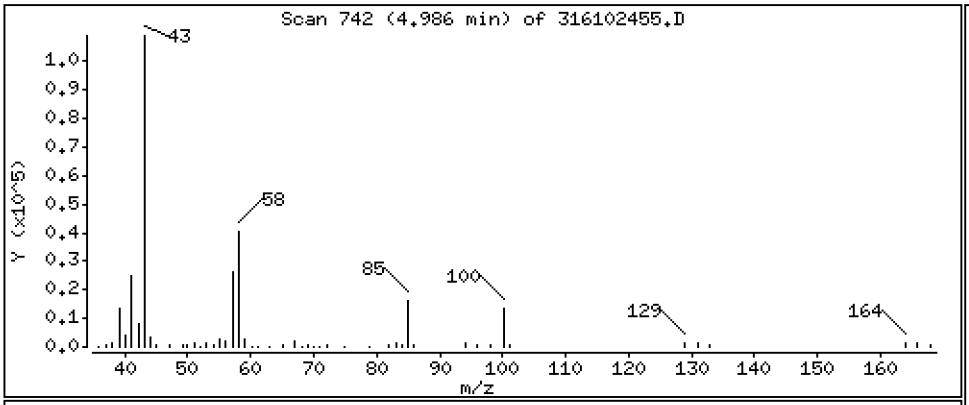
Client ID: Instrument: ms03.i

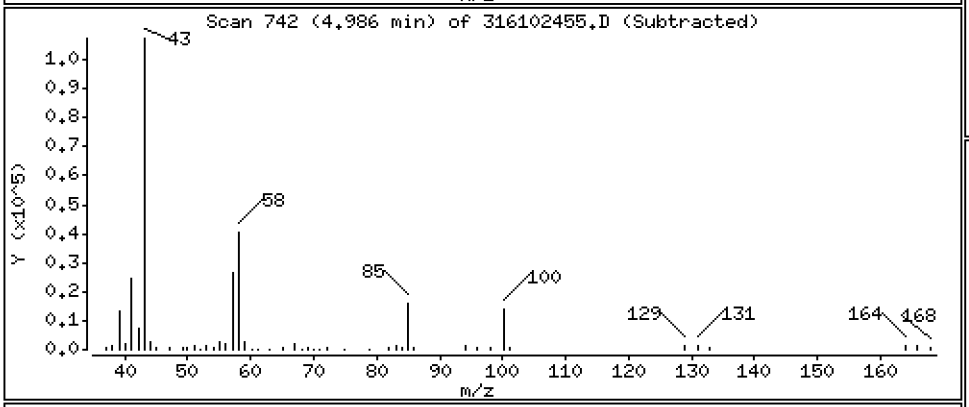
Sample Info: 1235;;1;1;2;;;

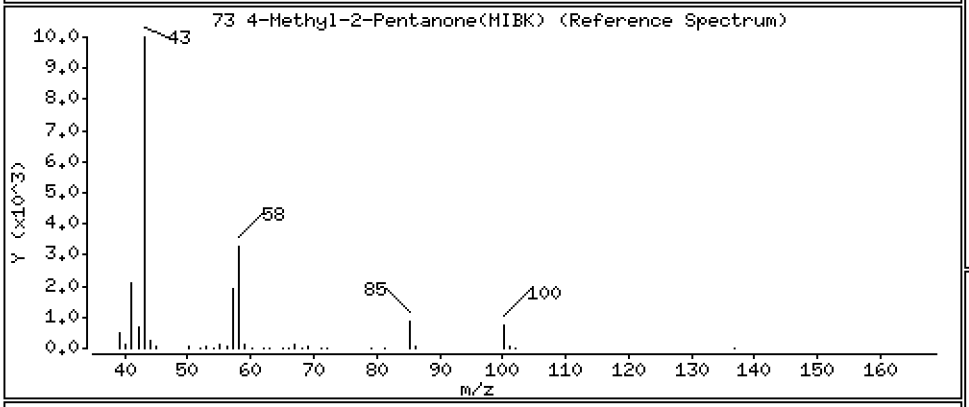
Purge Volume: 5.0 Operator: CJG

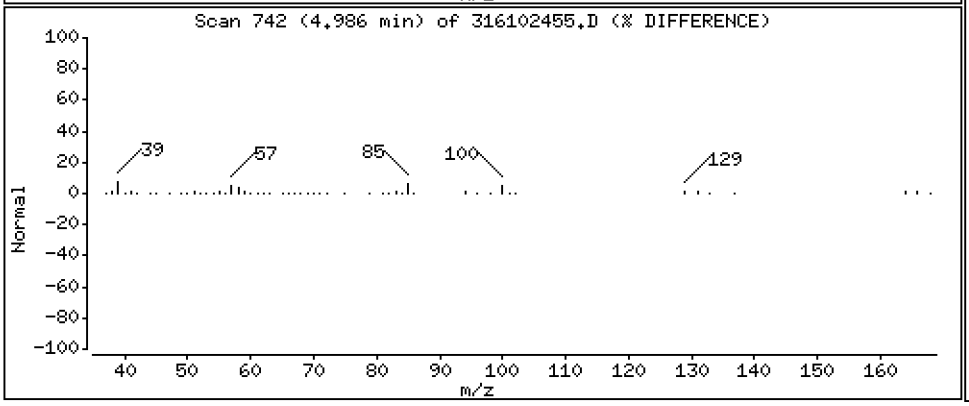
Column phase: DB-VRX Column diameter: 0.25

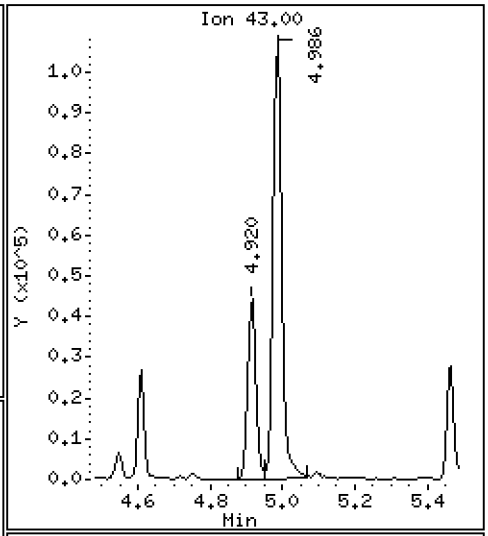
73 4-Methyl-2-Pentanone(MIBK) Concentration: 22.5913 ug/L

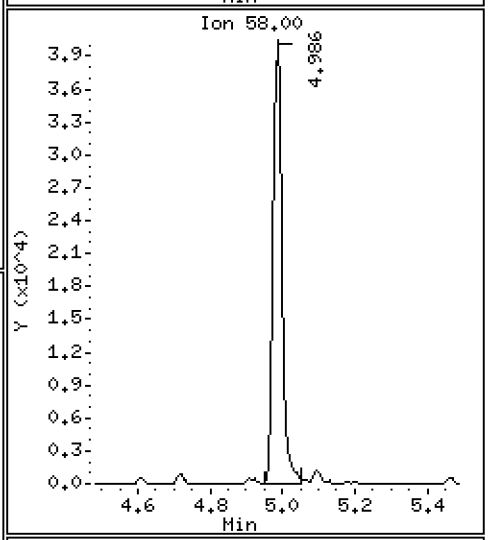


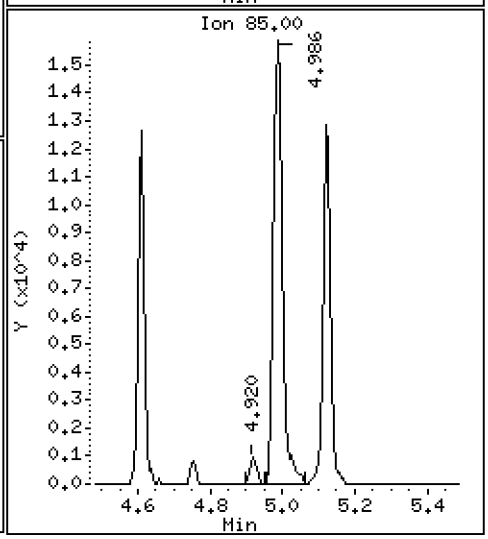












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 78

Date : 25-OCT-2016 00:08

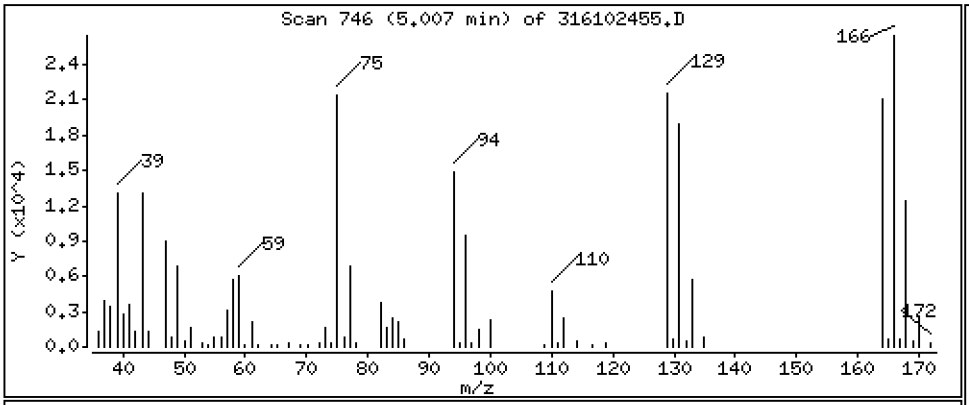
Client ID: Instrument: ms03.i

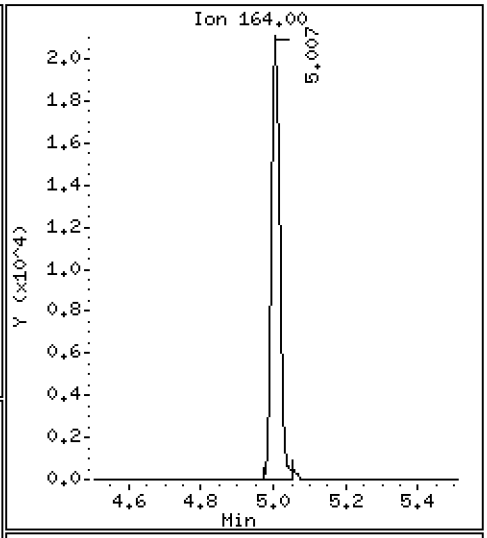
Sample Info: 1235;;1;1;2;;;

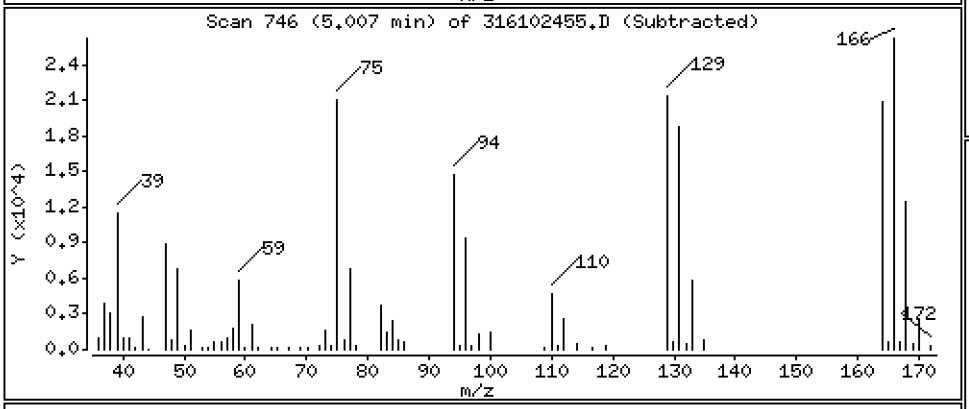
Purge Volume: 5.0 Operator: CJG

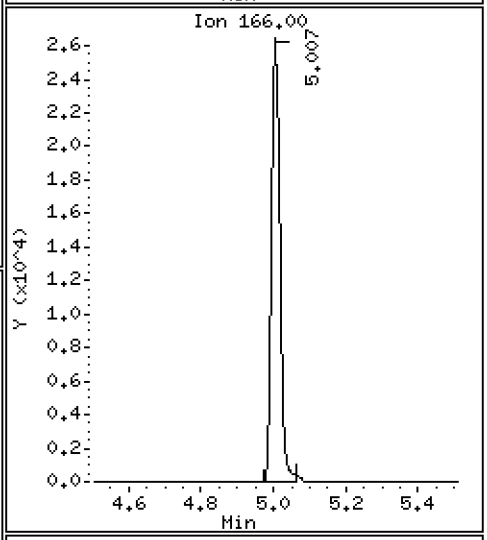
Column phase: DB-VRX Column diameter: 0.25

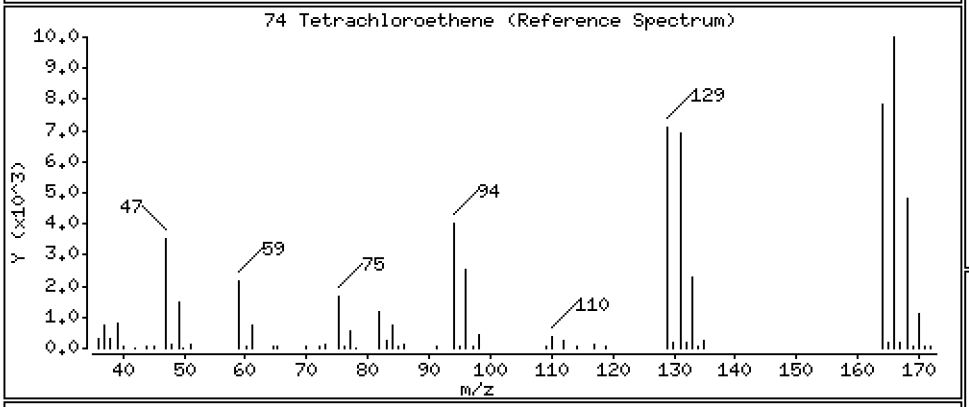
74 Tetrachloroethene Concentration: 6.40061 ug/L

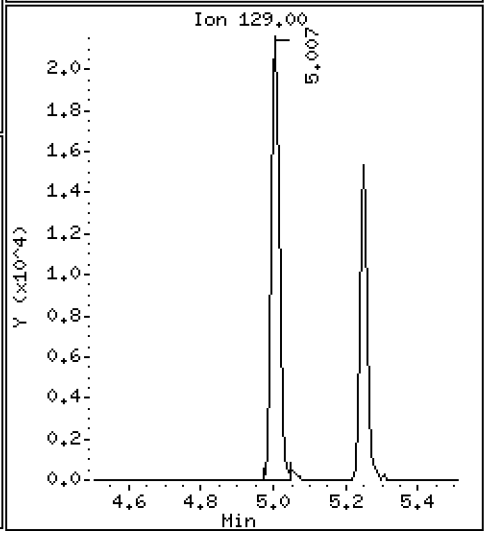


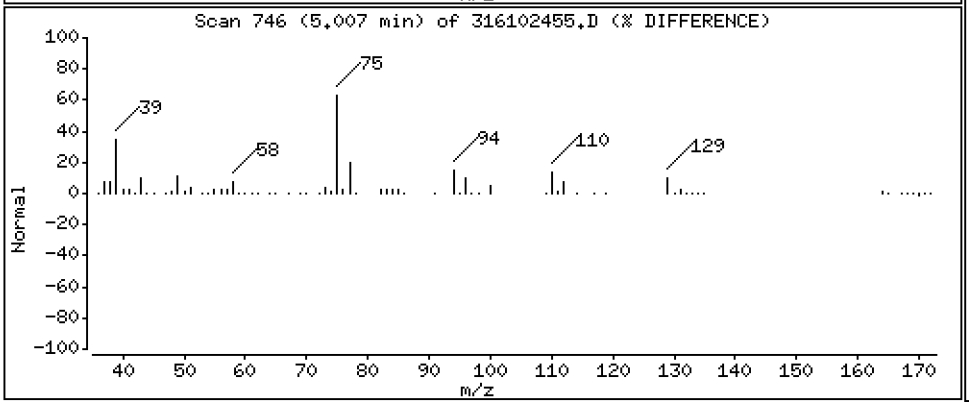












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 79

Date : 25-OCT-2016 00:08

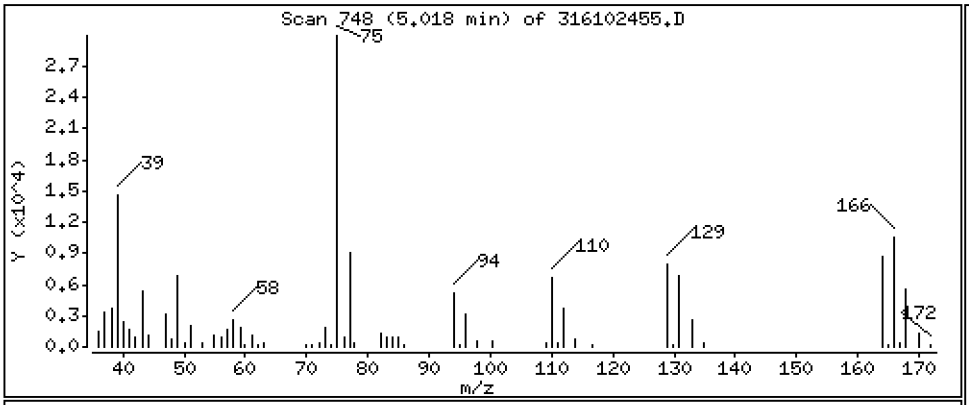
Client ID: Instrument: ms03.i

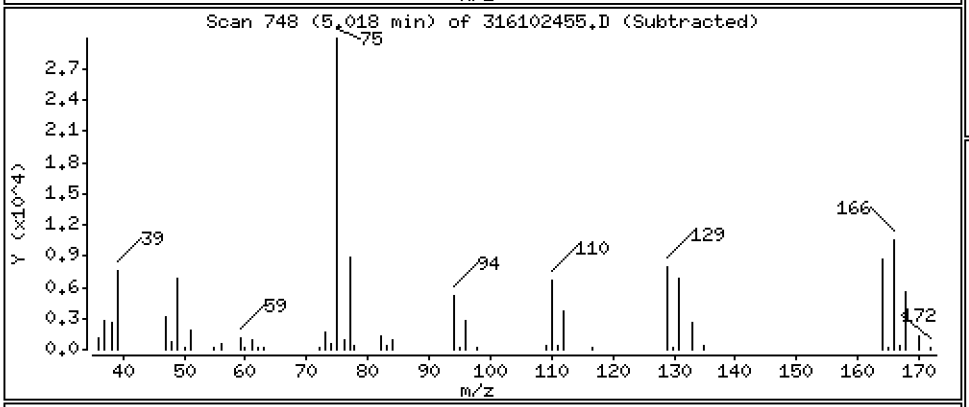
Sample Info: 1235;;1;1;2;;;

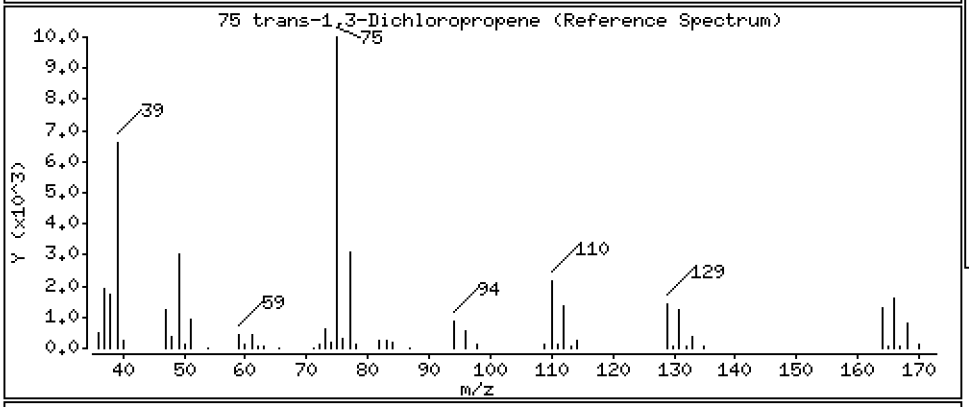
Purge Volume: 5.0 Operator: CJG

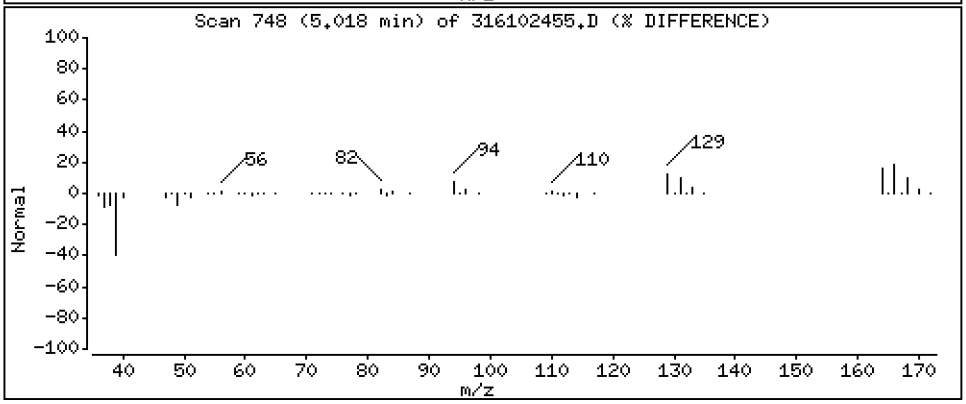
Column phase: DB-VRX Column diameter: 0.25

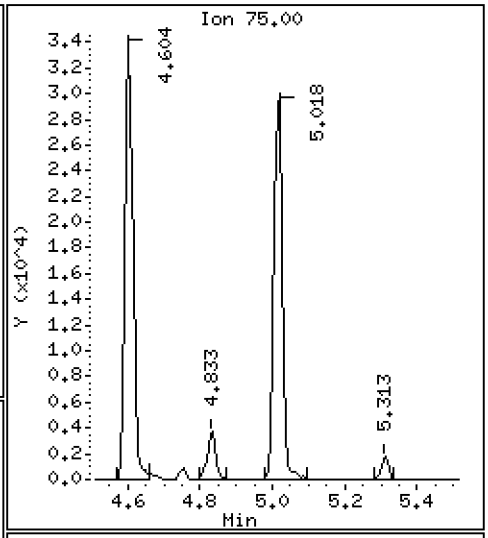
75 trans-1,3-Dichloropropene Concentration: 4.26371 ug/L

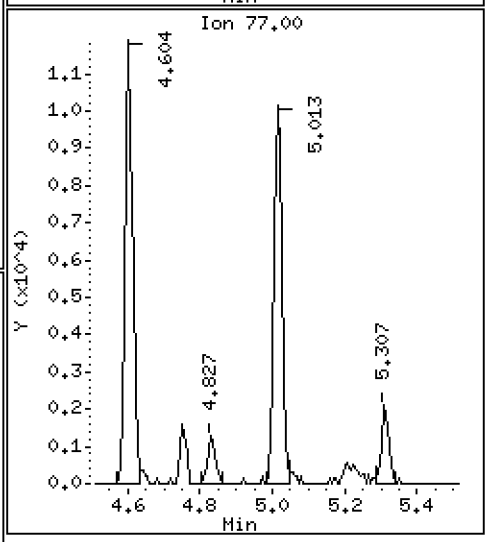












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 80

Date : 25-OCT-2016 00:08

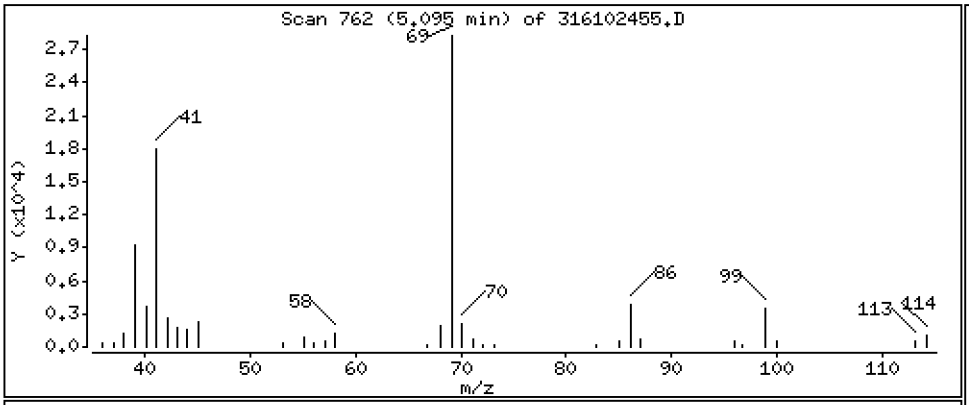
Client ID: Instrument: ms03.i

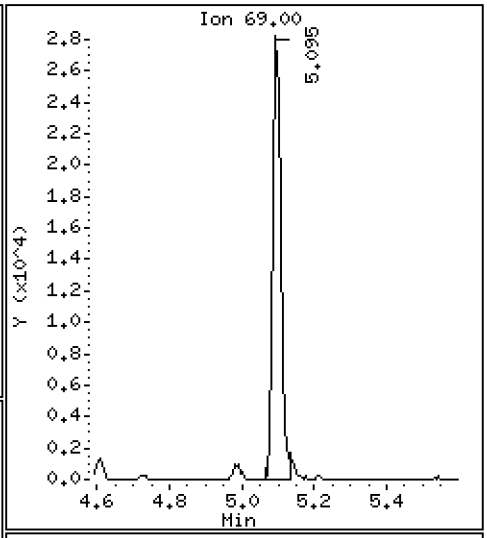
Sample Info: 1235;;1;1;2;;;

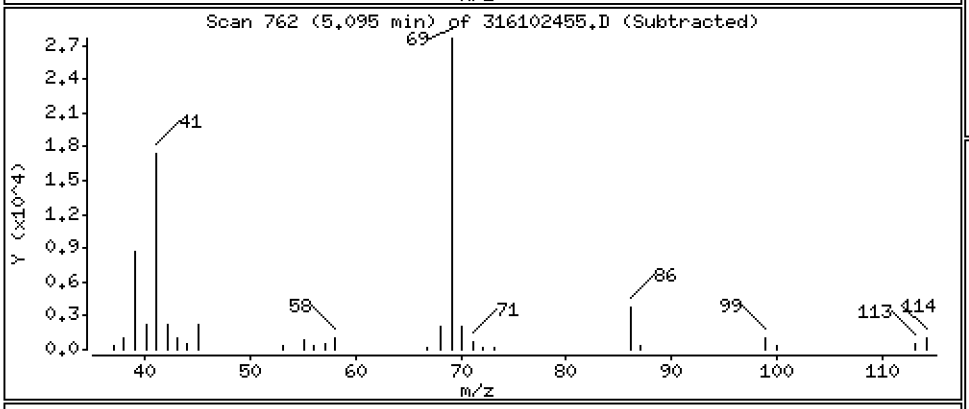
Purge Volume: 5.0 Operator: CJG

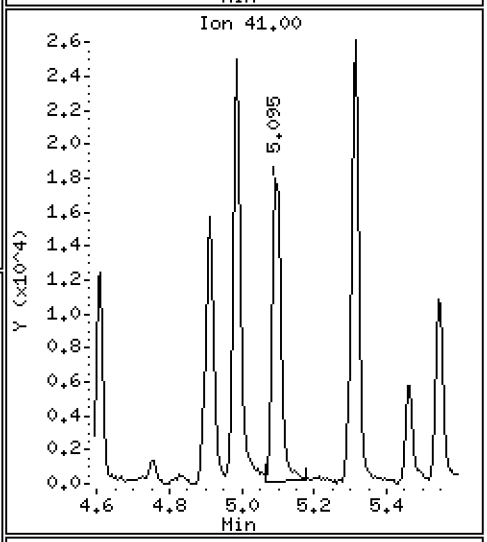
Column phase: DB-VRX Column diameter: 0.25

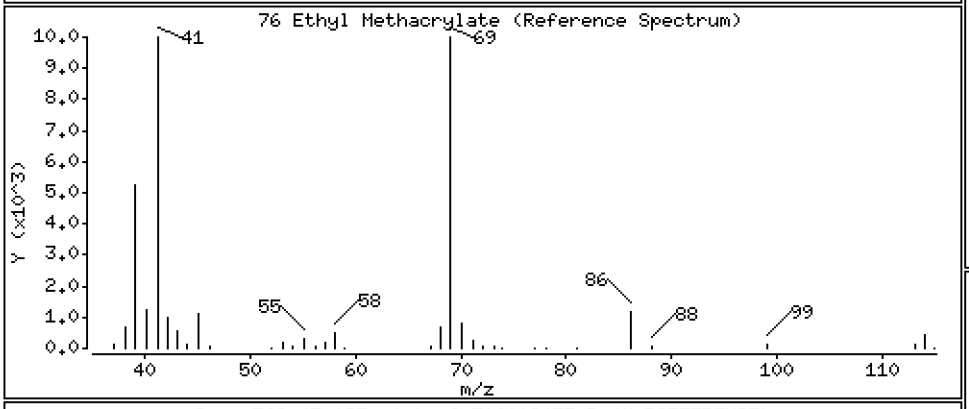
76 Ethyl Methacrylate Concentration: 4.02947 ug/L

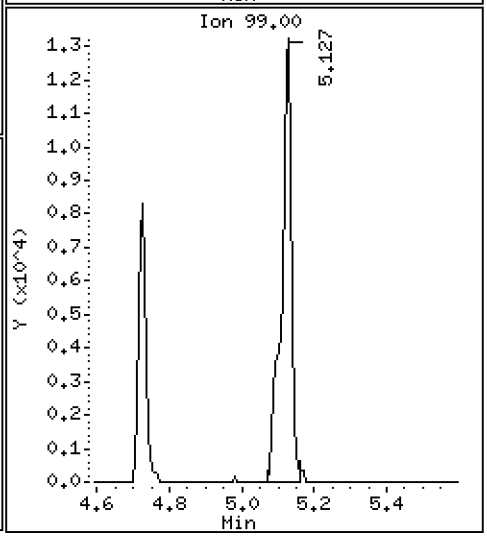


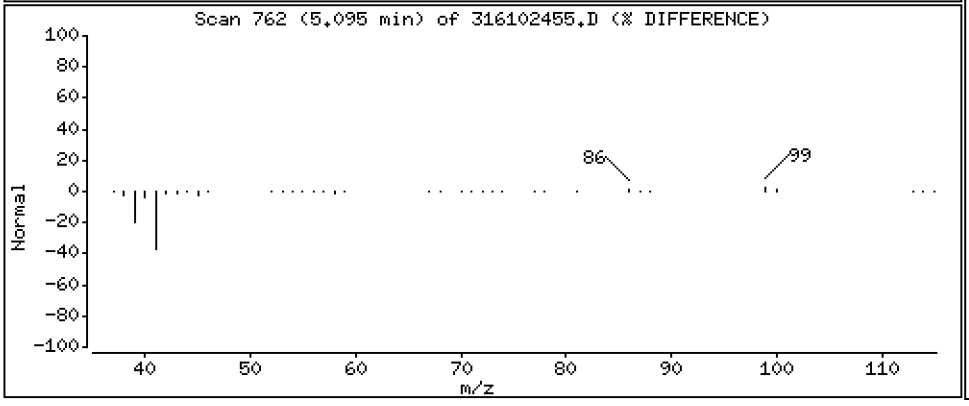












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 81

Date : 25-OCT-2016 00:08

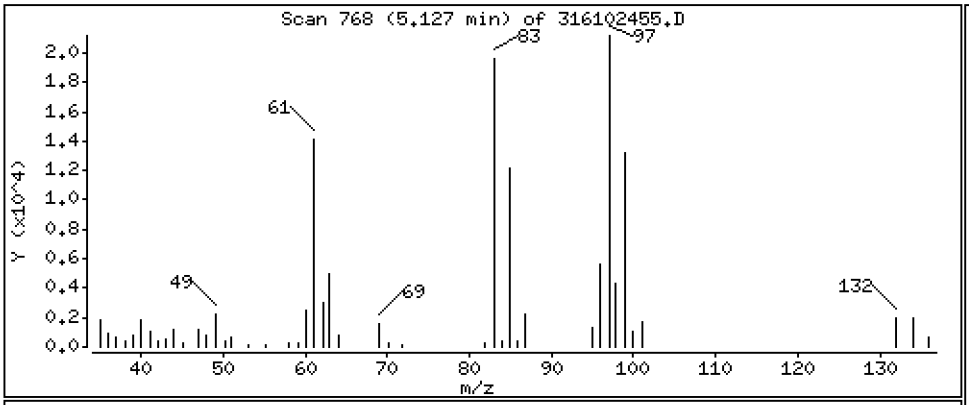
Client ID: Instrument: ms03.i

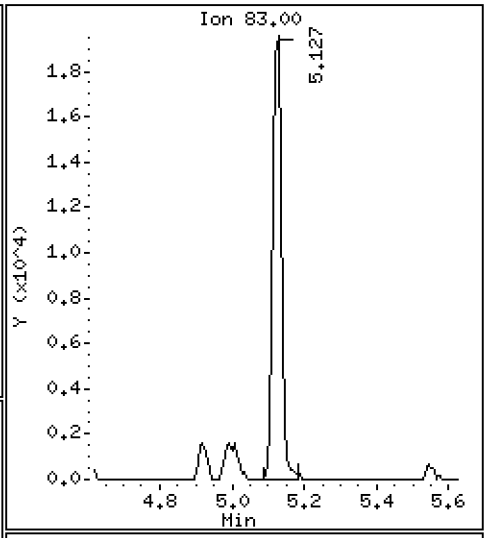
Sample Info: 1235;;1;1;2;;;

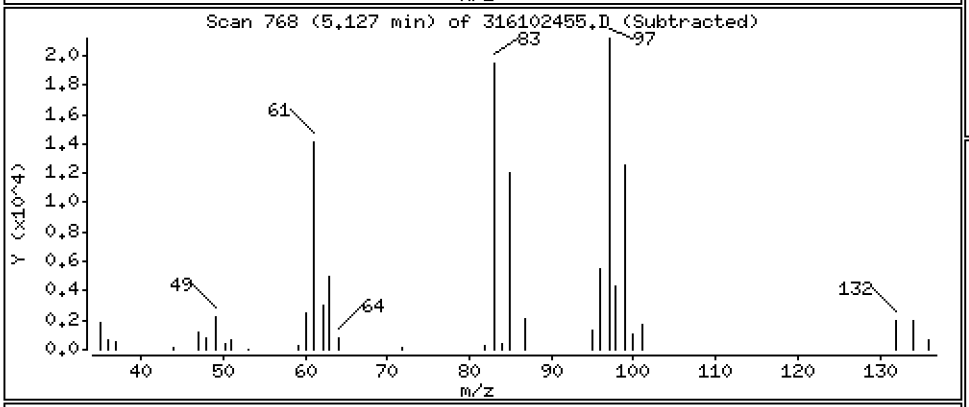
Purge Volume: 5.0 Operator: CJG

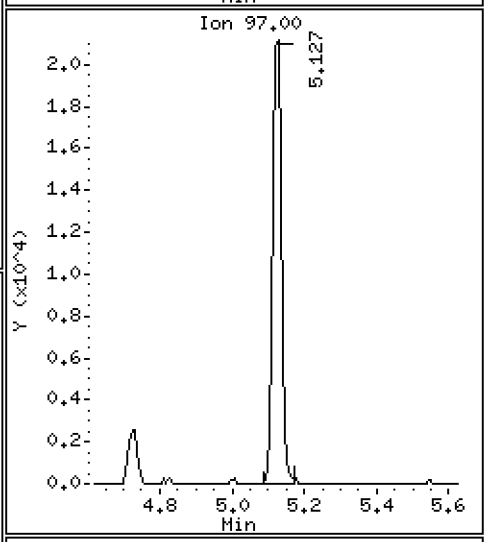
Column phase: DB-VRX Column diameter: 0.25

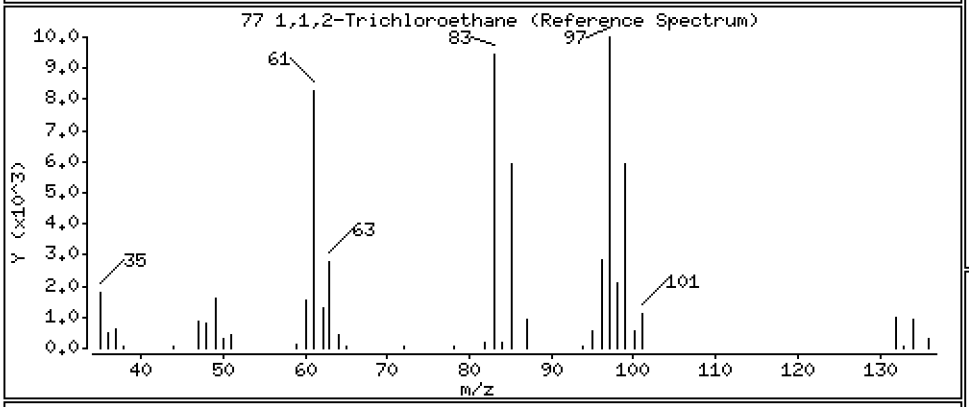
77 1,1,2-Trichloroethane Concentration: 5.39868 ug/L

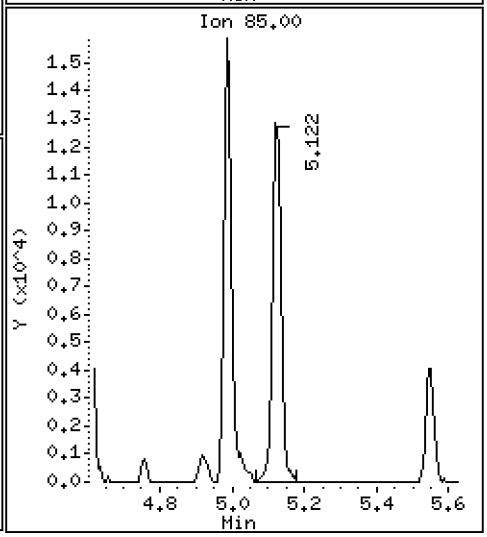


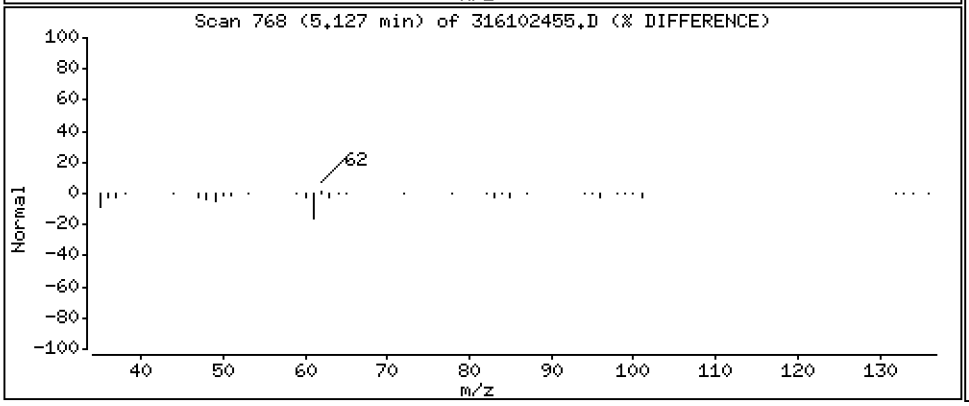












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 82

Date : 25-OCT-2016 00:08

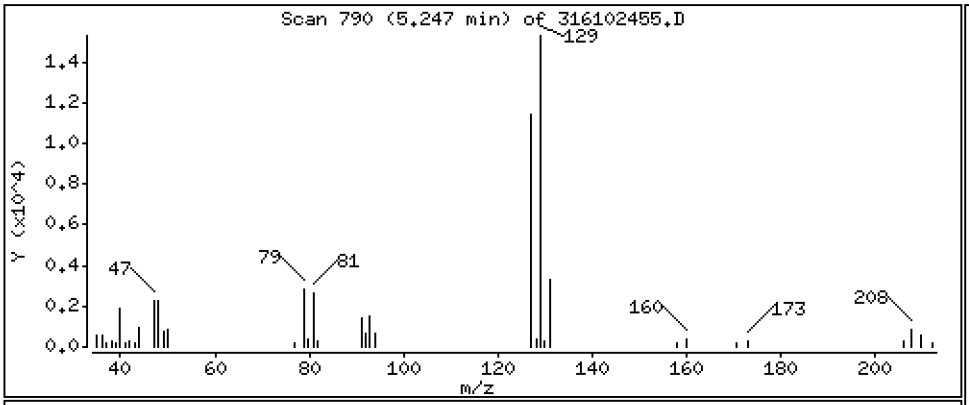
Client ID: Instrument: ms03.i

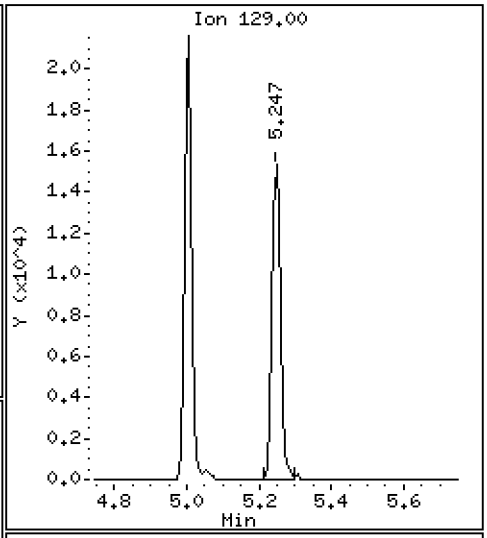
Sample Info: 1235;;1;1;2;;;

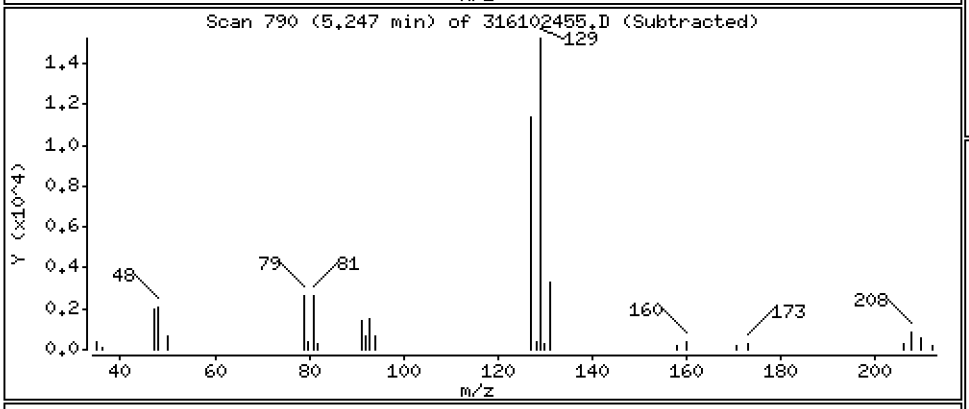
Purge Volume: 5.0 Operator: CJG

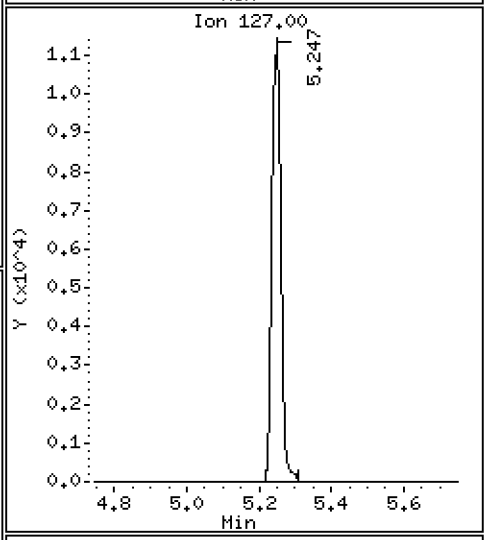
Column phase: DB-VRX Column diameter: 0.25

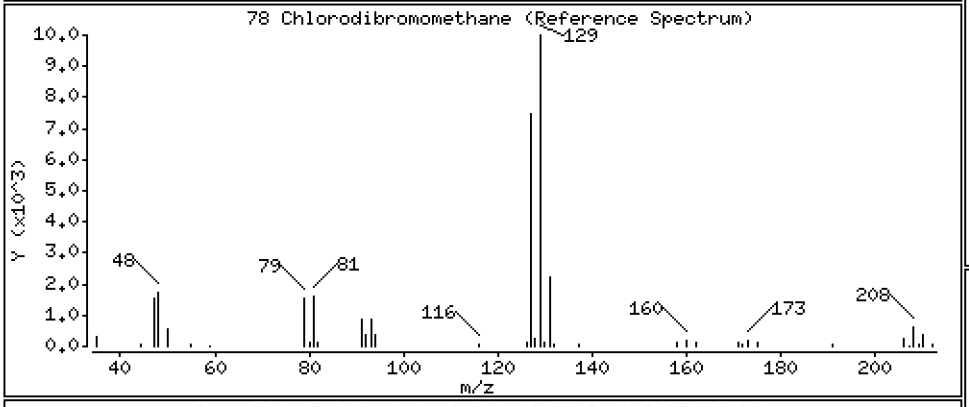
78 Chlorodibromomethane Concentration: 4.20668 ug/L

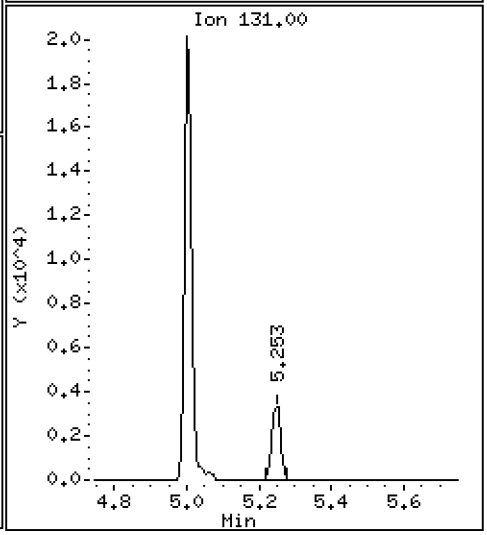


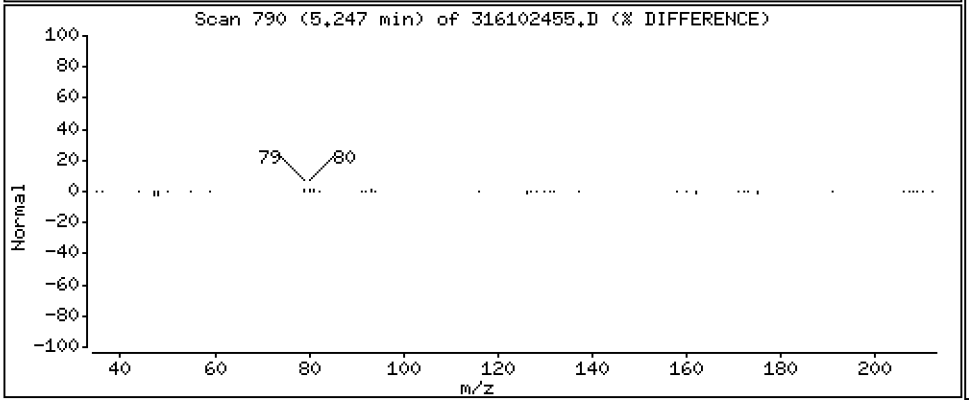












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 83

Date : 25-OCT-2016 00:08

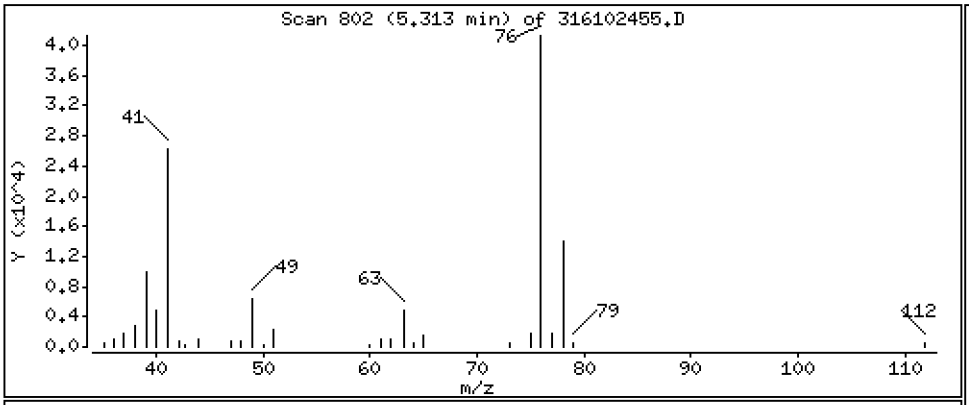
Client ID: Instrument: ms03.i

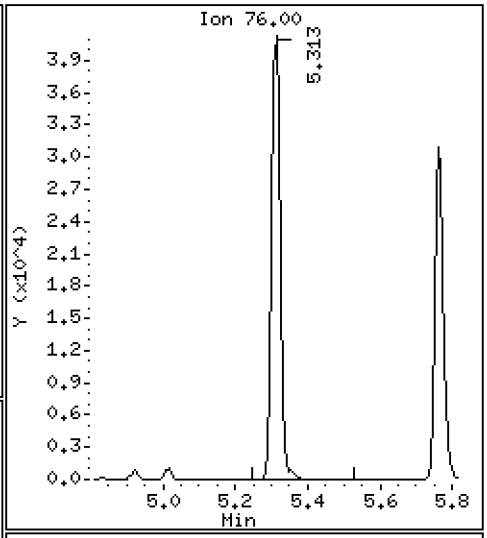
Sample Info: 1235;;1;1;2;;;

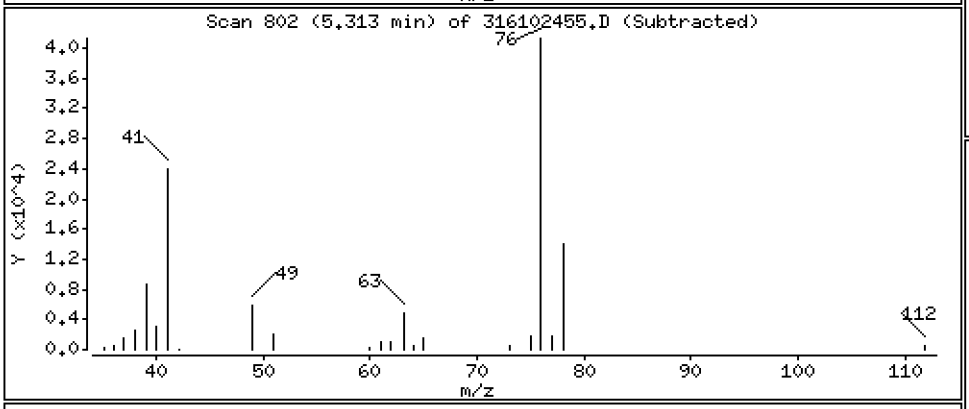
Purge Volume: 5.0 Operator: CJG

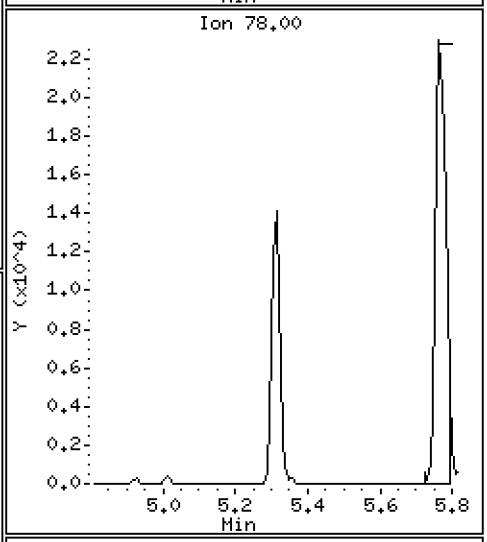
Column phase: DB-VRX Column diameter: 0.25

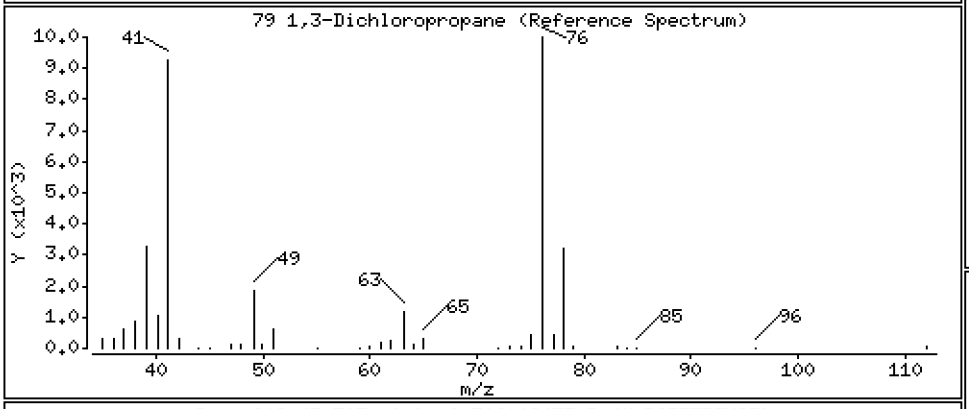
79 1,3-Dichloropropane Concentration: 5.28577 ug/L

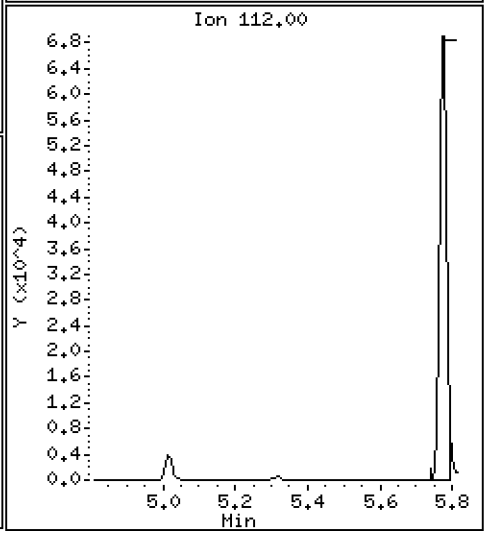


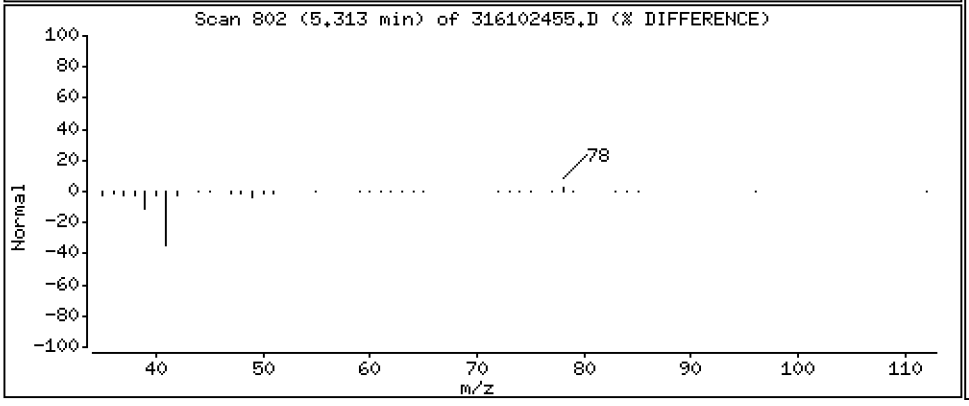












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 84

Date : 25-OCT-2016 00:08

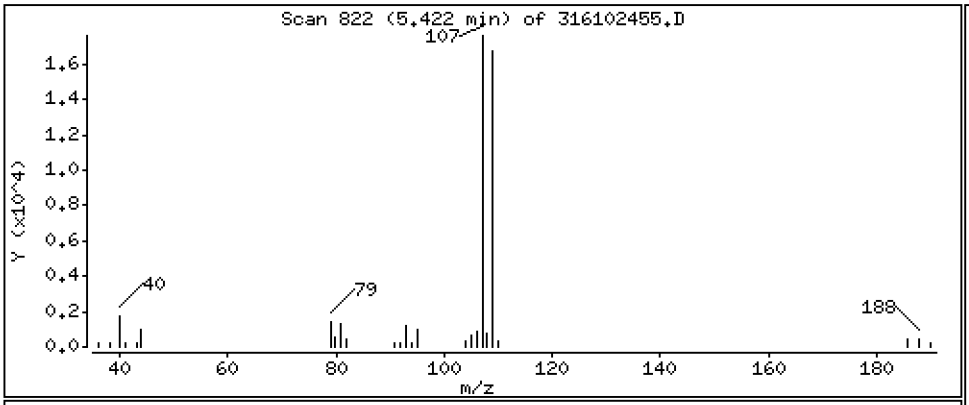
Client ID: Instrument: ms03.i

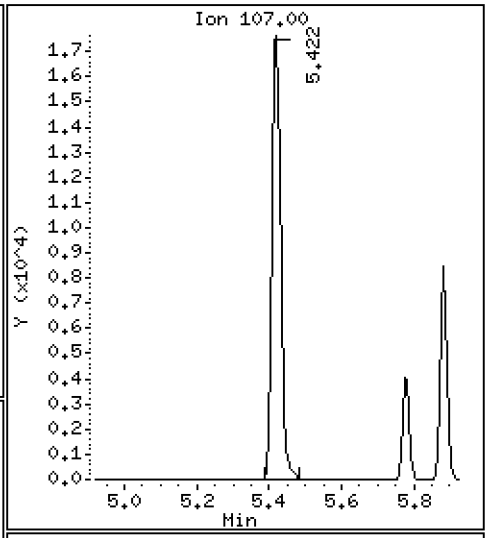
Sample Info: 1235;;1;1;2;;;

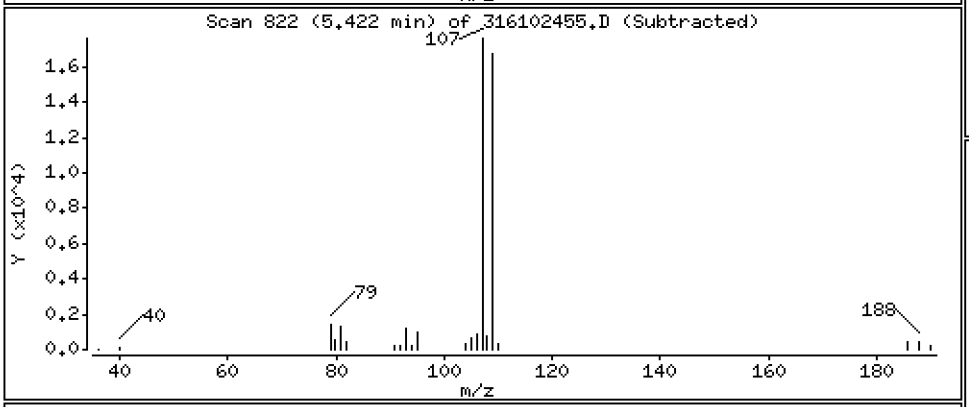
Purge Volume: 5.0 Operator: CJG

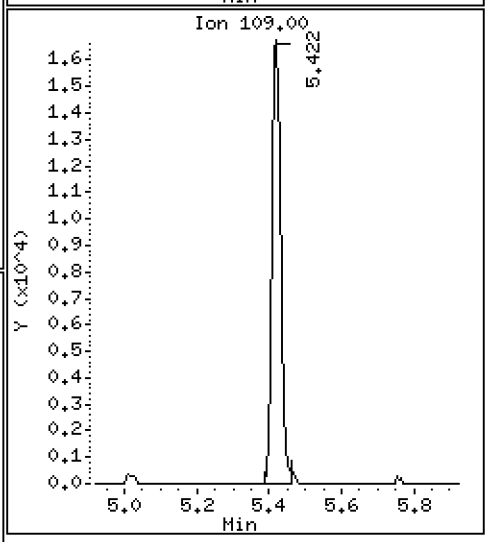
Column phase: DB-VRX Column diameter: 0.25

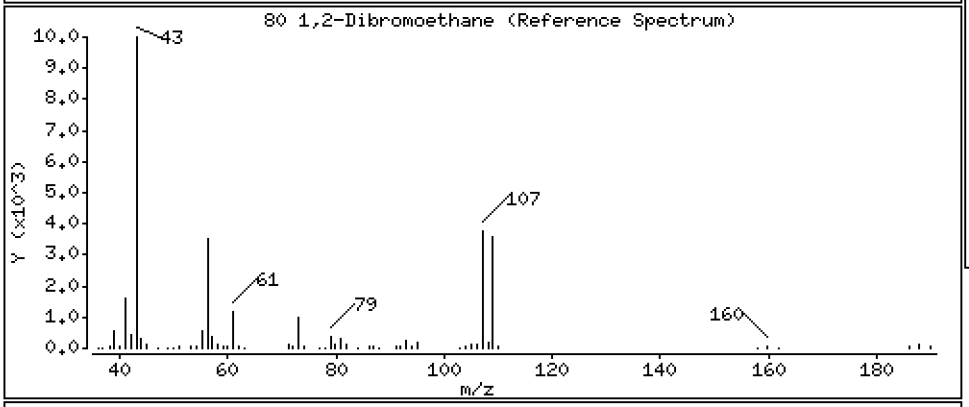
80 1,2-Dibromoethane Concentration: 4.83206 ug/L

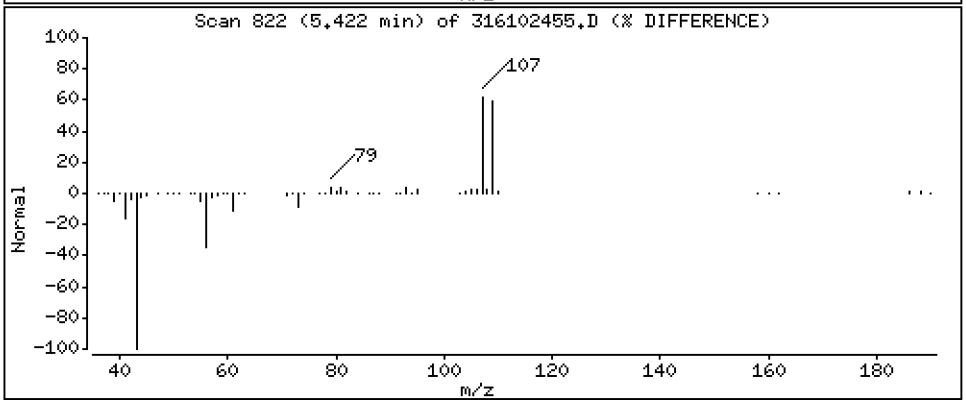












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 85

Date : 25-OCT-2016 00:08

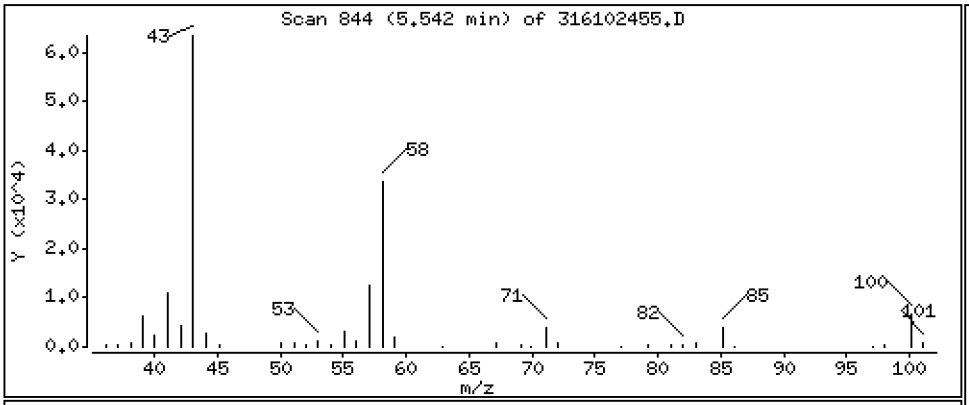
Client ID: Instrument: ms03.i

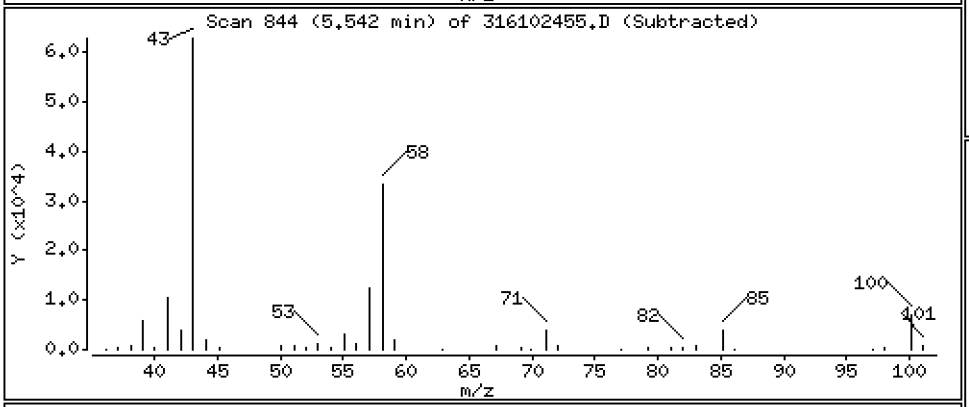
Sample Info: 1235;;1;1;2;;;

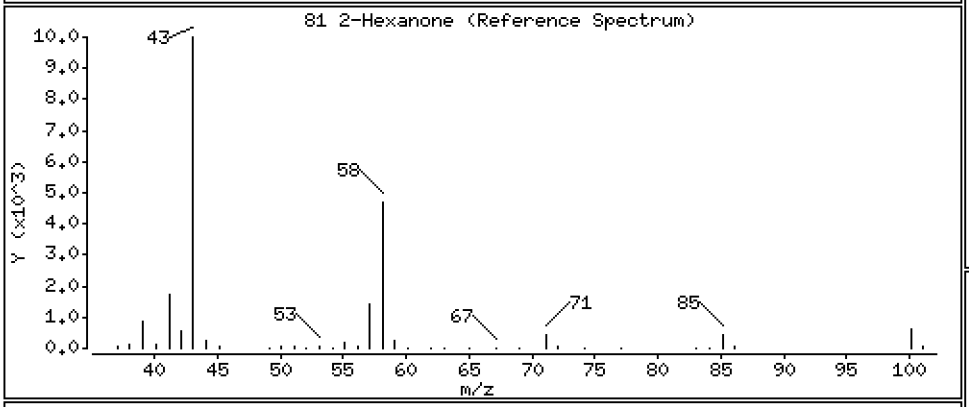
Purge Volume: 5.0 Operator: CJG

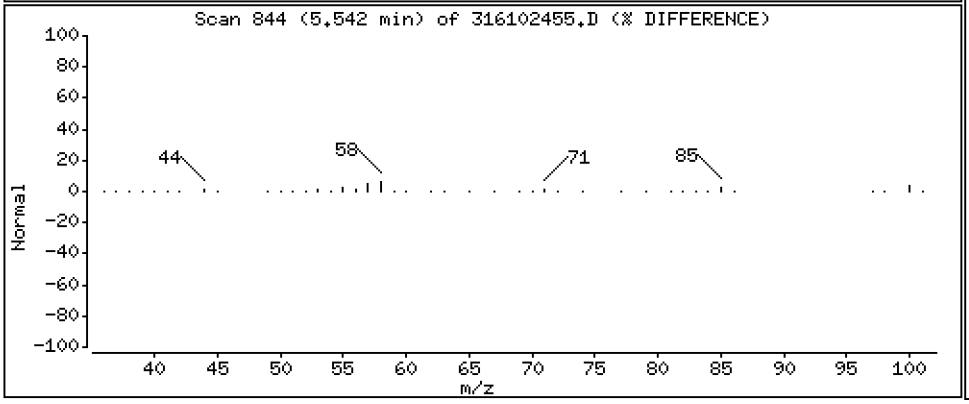
Column phase: DB-VRX Column diameter: 0.25

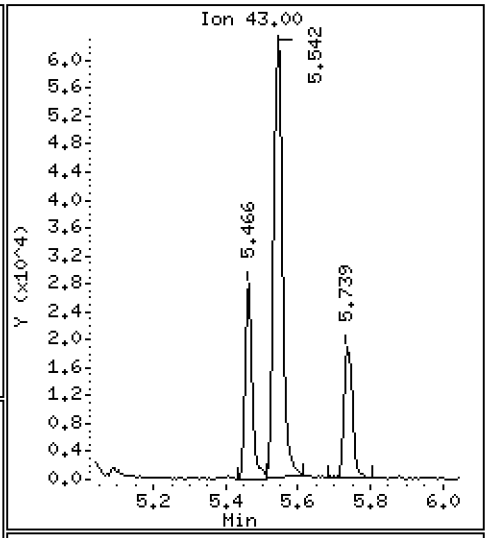
81 2-Hexanone Concentration: 20.5432 ug/L

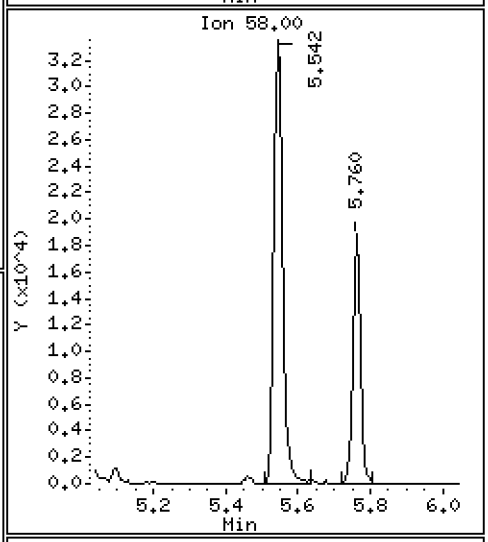


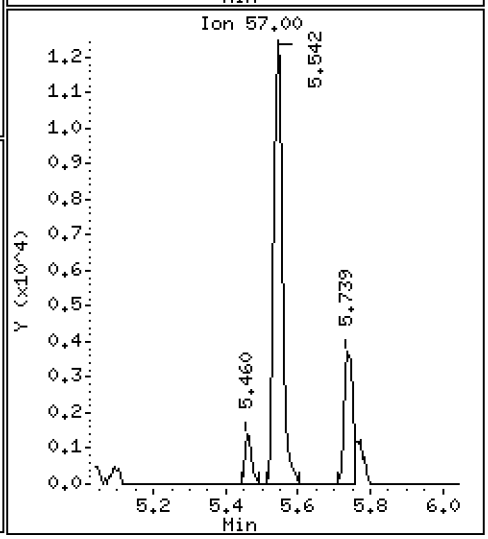












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 86

Date : 25-OCT-2016 00:08

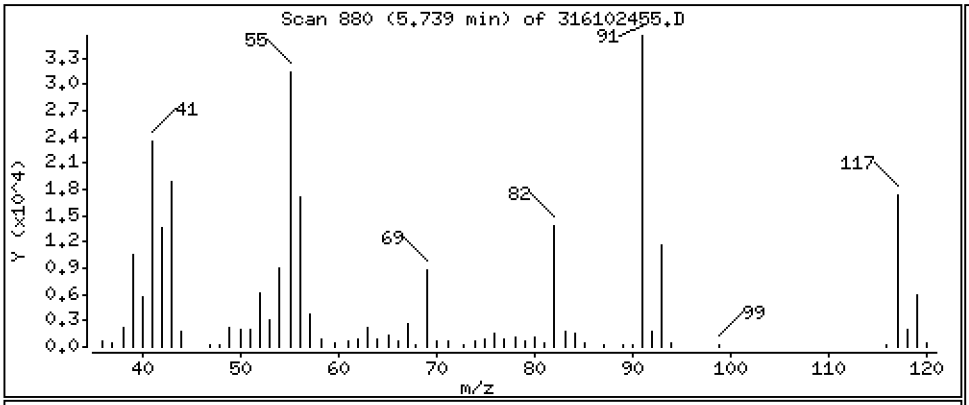
Client ID: Instrument: ms03.i

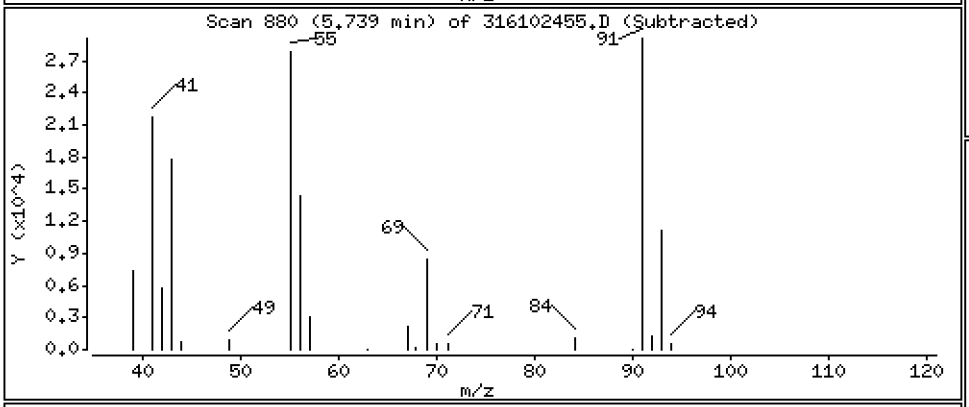
Sample Info: 1235;;1;1;2;;;

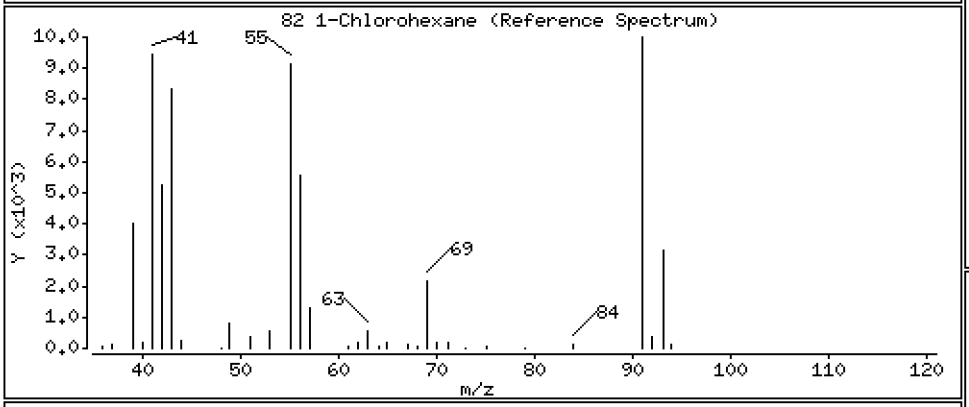
Purge Volume: 5.0 Operator: CJG

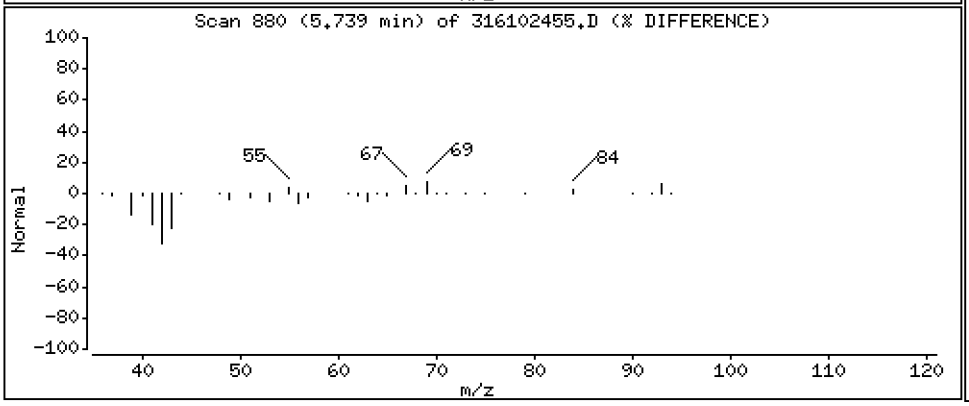
Column phase: DB-VRX Column diameter: 0.25

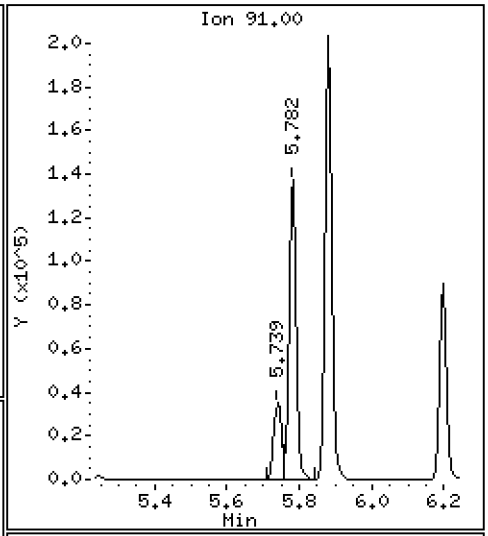
82 1-Chlorohexane Concentration: 5.07295 ug/L

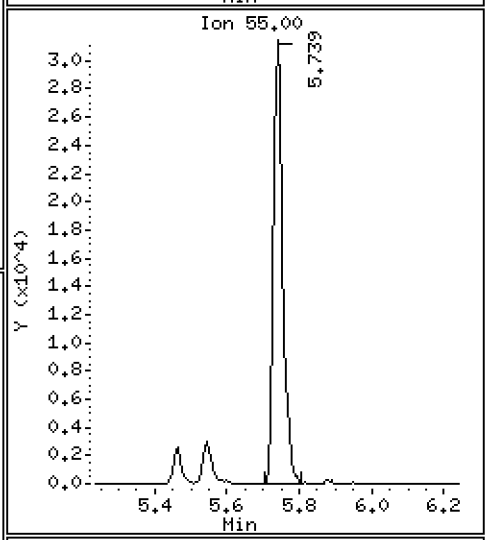


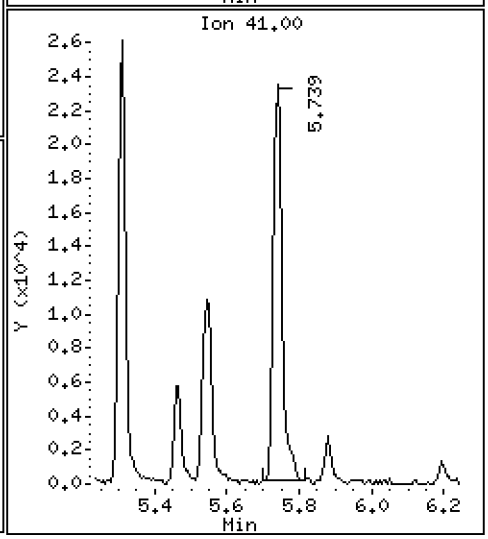












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 87

Date : 25-OCT-2016 00:08

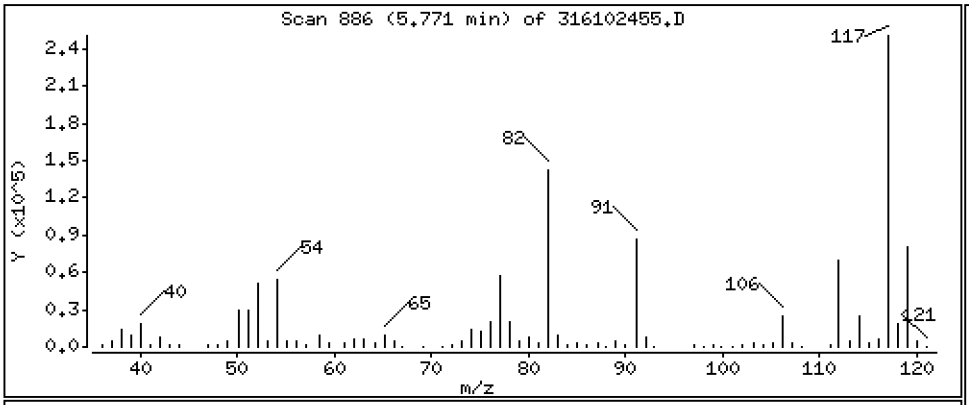
Client ID: Instrument: ms03.i

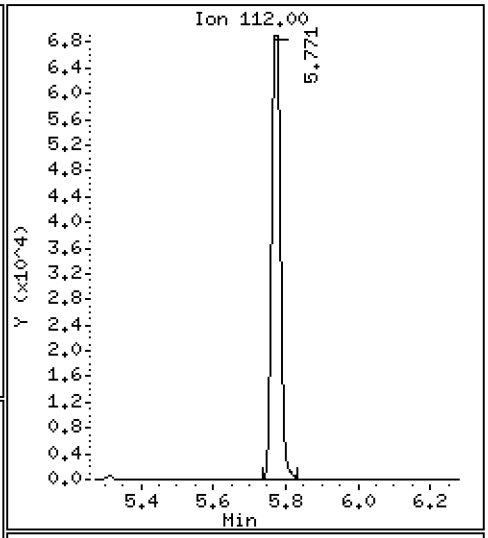
Sample Info: 1235;;1;1;2;;;

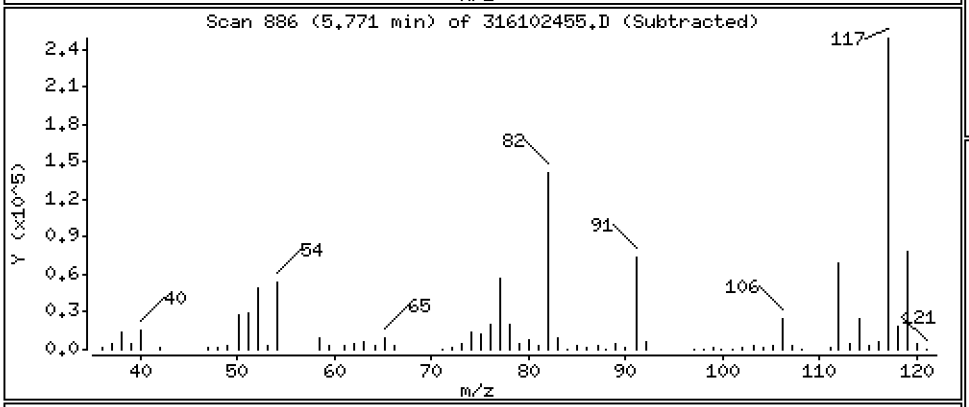
Purge Volume: 5.0 Operator: CJG

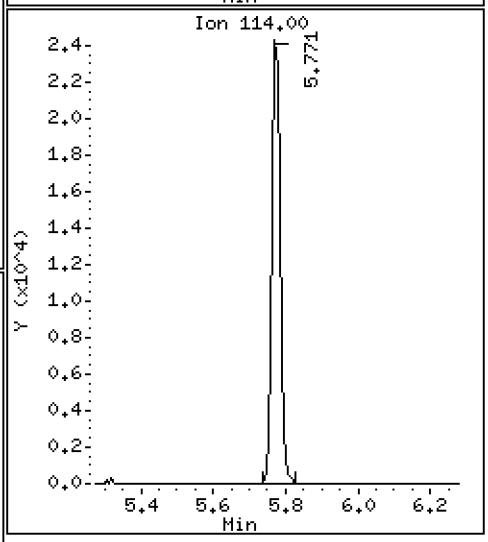
Column phase: DB-VRX Column diameter: 0.25

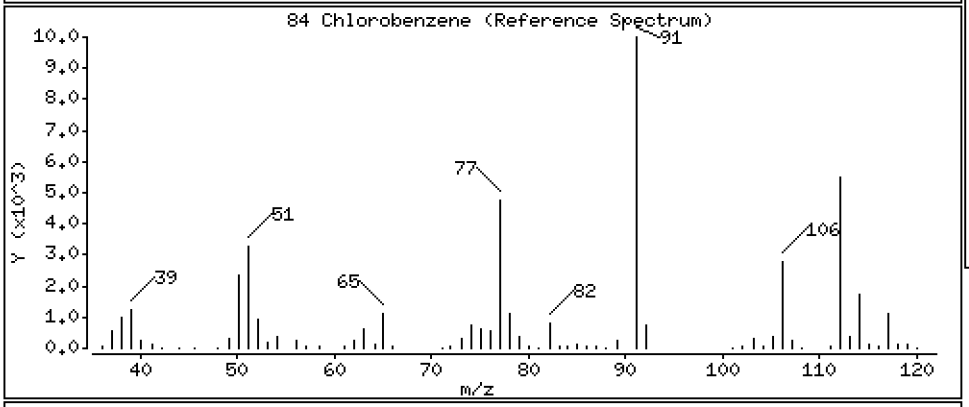
84 Chlorobenzene Concentration: 5.67543 ug/L

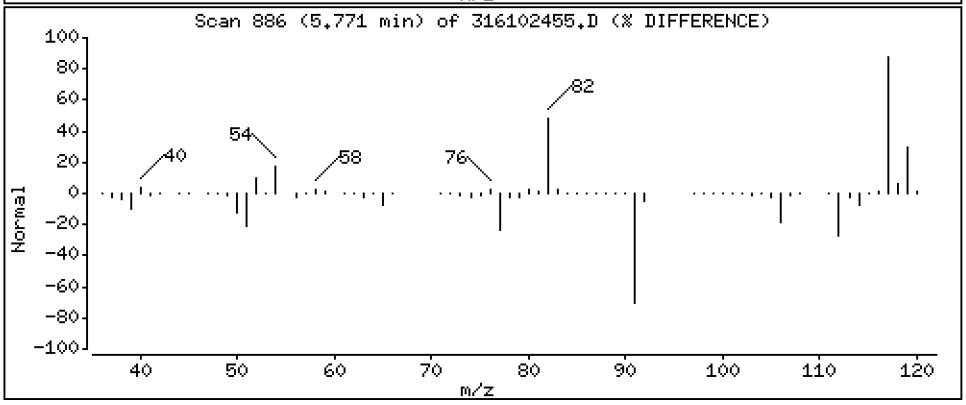












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 88

Date : 25-OCT-2016 00:08

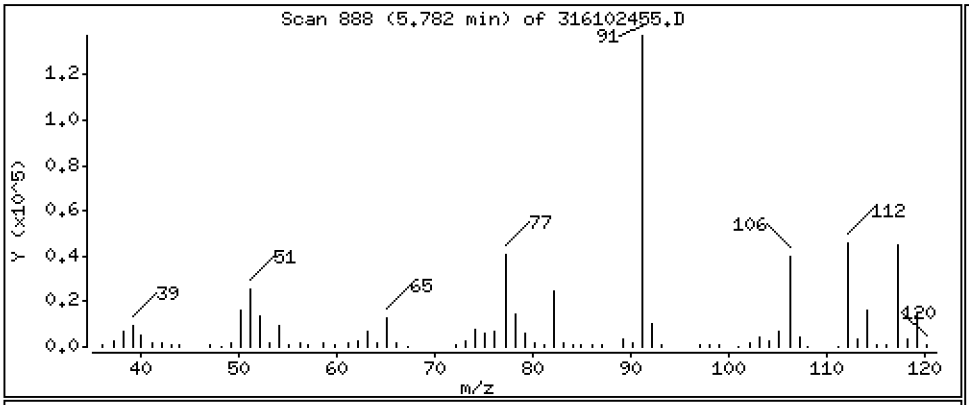
Client ID: Instrument: ms03.i

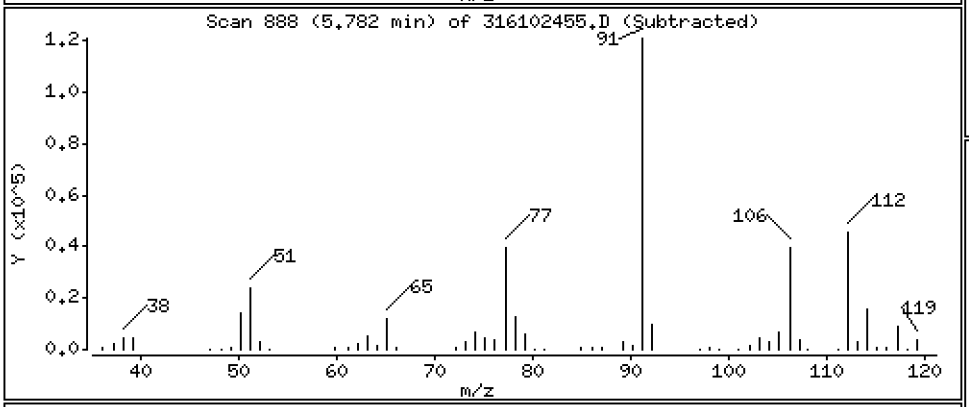
Sample Info: 1235;;1;1;2;;;

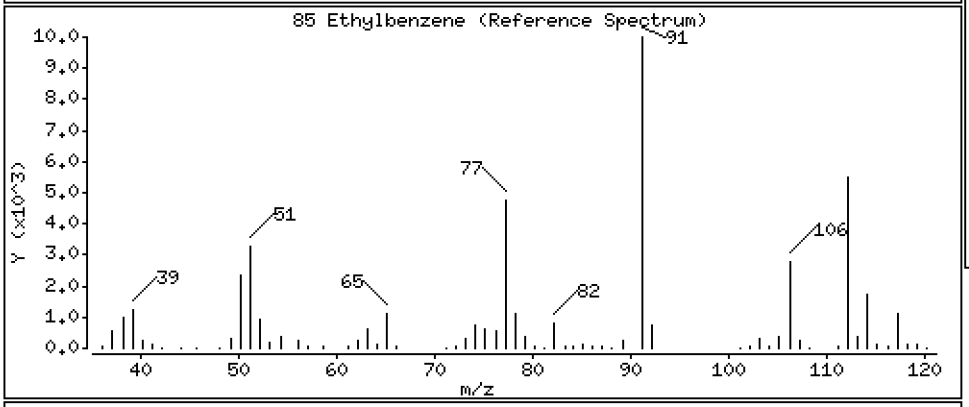
Purge Volume: 5.0 Operator: CJG

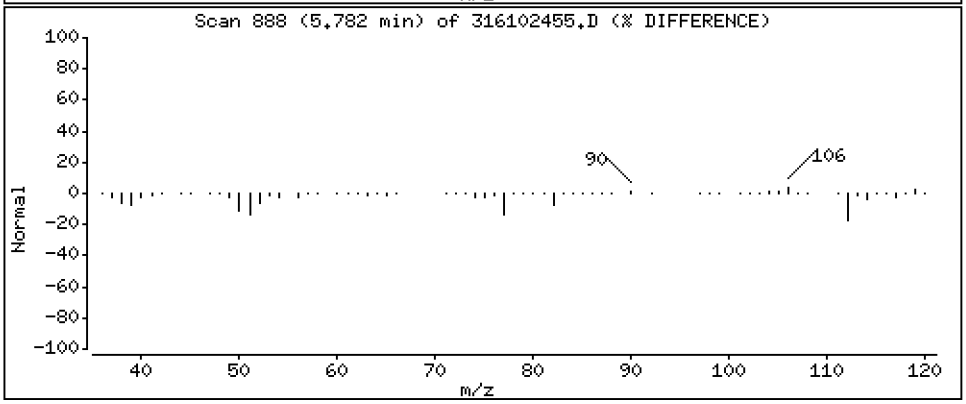
Column phase: DB-VRX Column diameter: 0.25

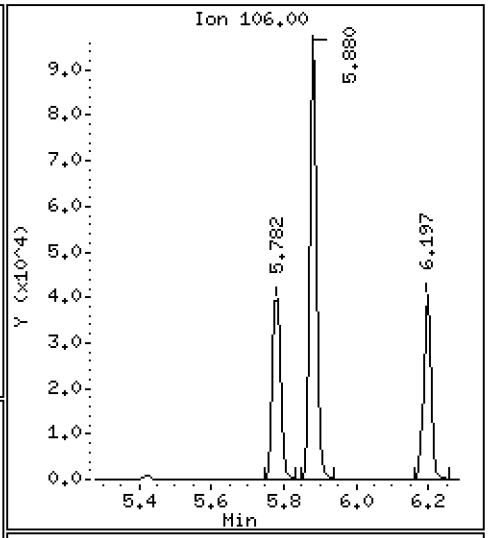
85 Ethylbenzene Concentration: 5.72338 ug/L

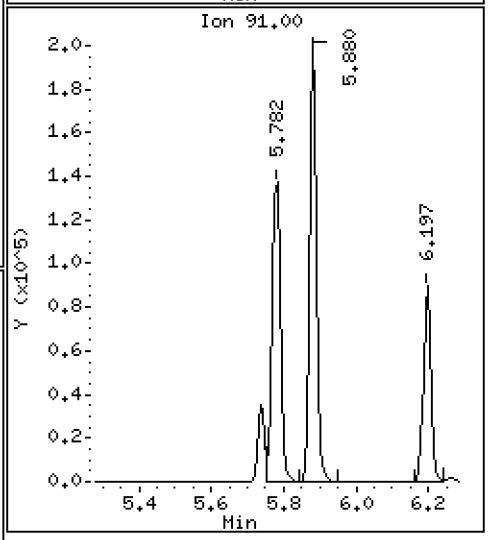












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 89

Date : 25-OCT-2016 00:08

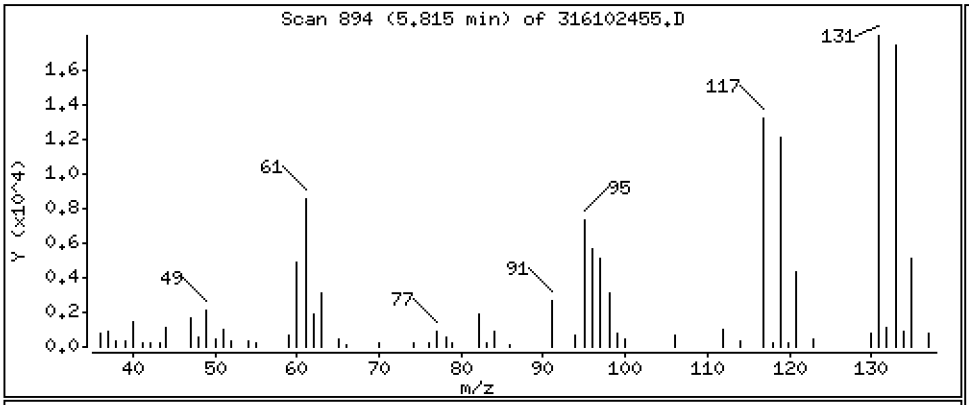
Client ID: Instrument: ms03.i

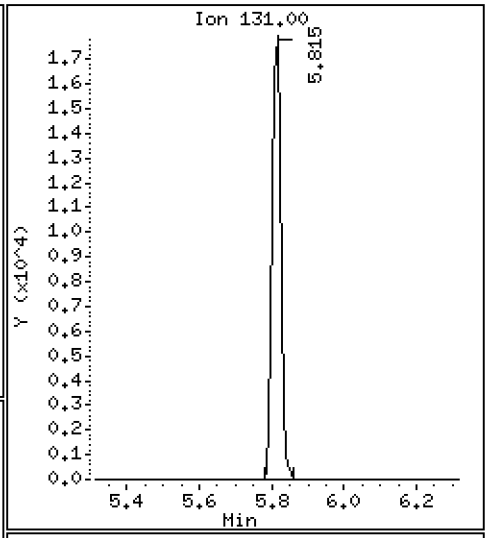
Sample Info: 1235;;1;1;2;;;

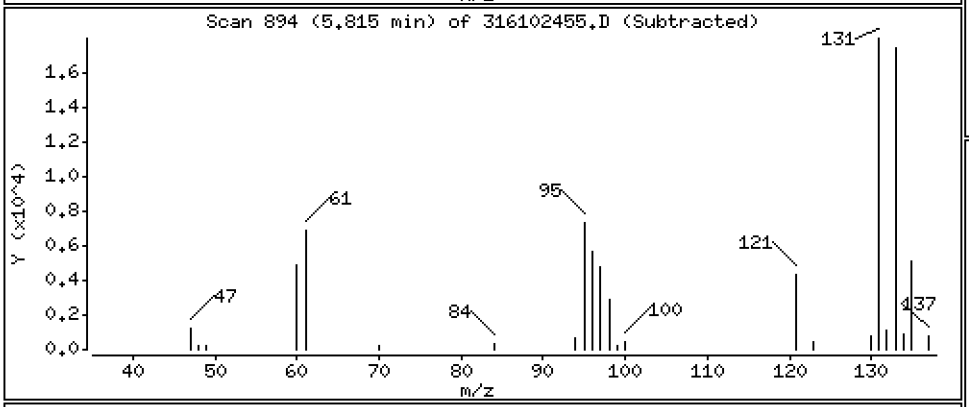
Purge Volume: 5.0 Operator: CJG

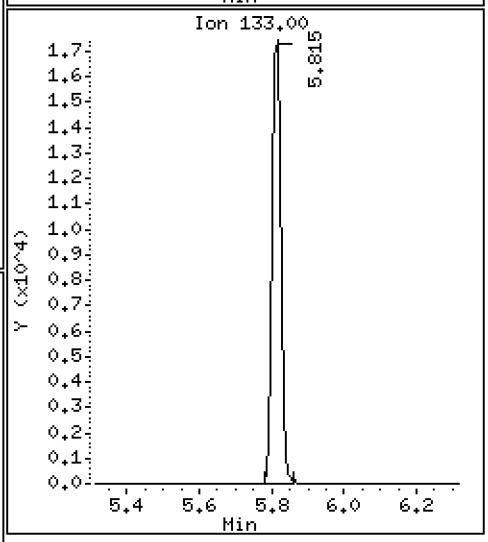
Column phase: DB-VRX Column diameter: 0.25

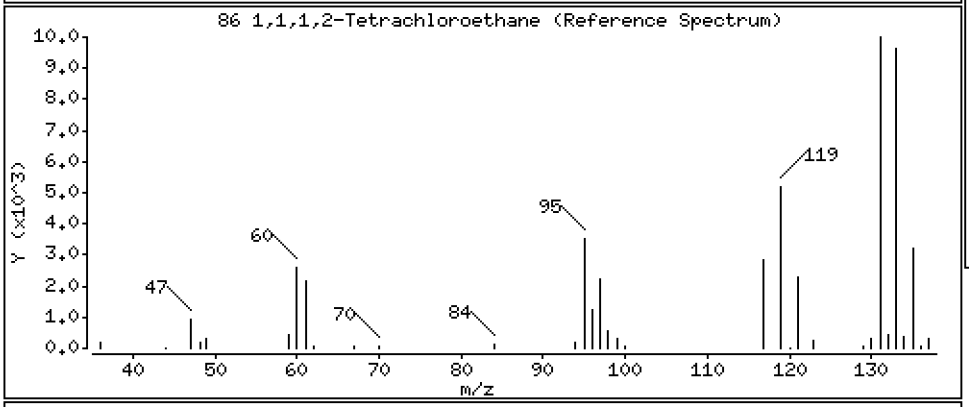
86 1,1,1,2-Tetrachloroethane Concentration: 4.98751 ug/L

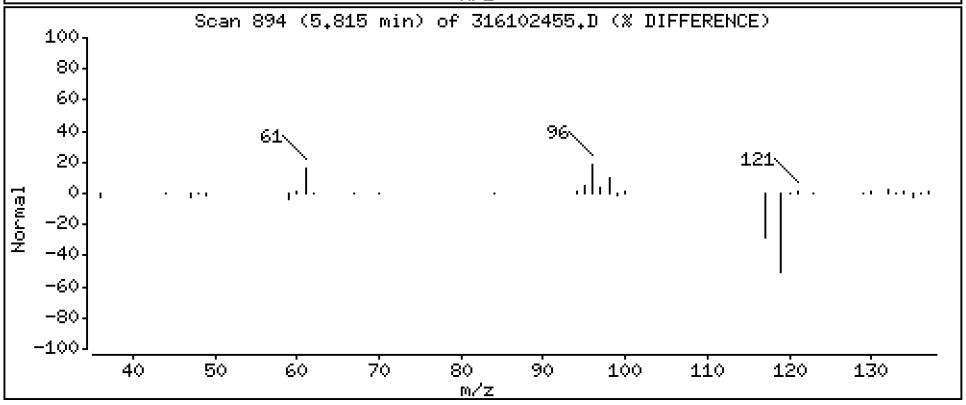












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 90

Date : 25-OCT-2016 00:08

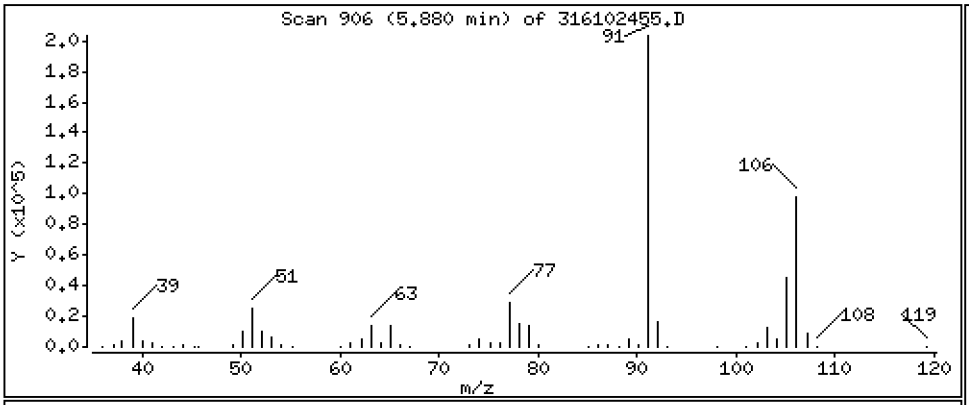
Client ID: Instrument: ms03.i

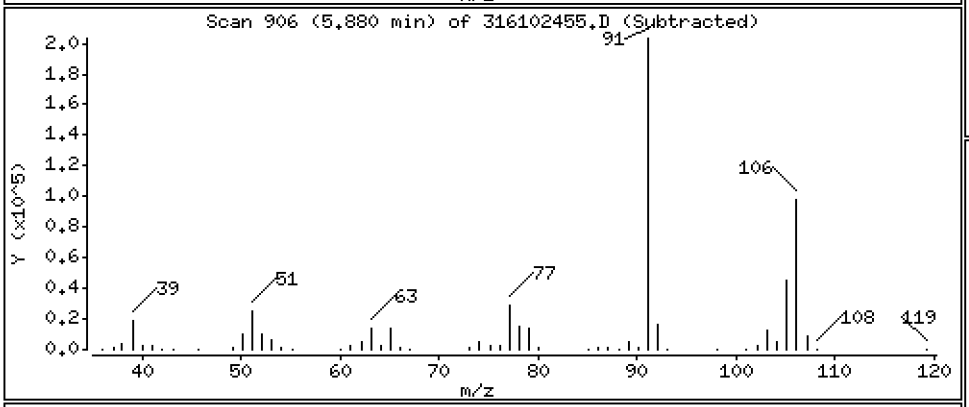
Sample Info: 1235;;1;1;2;;;

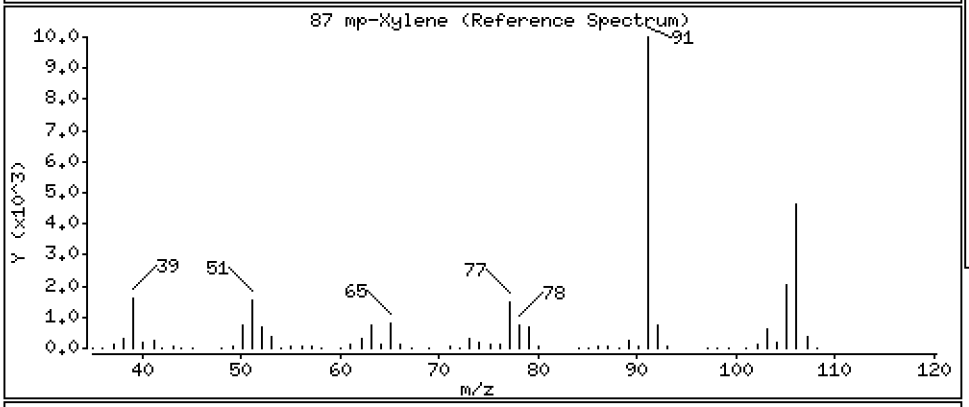
Purge Volume: 5.0 Operator: CJG

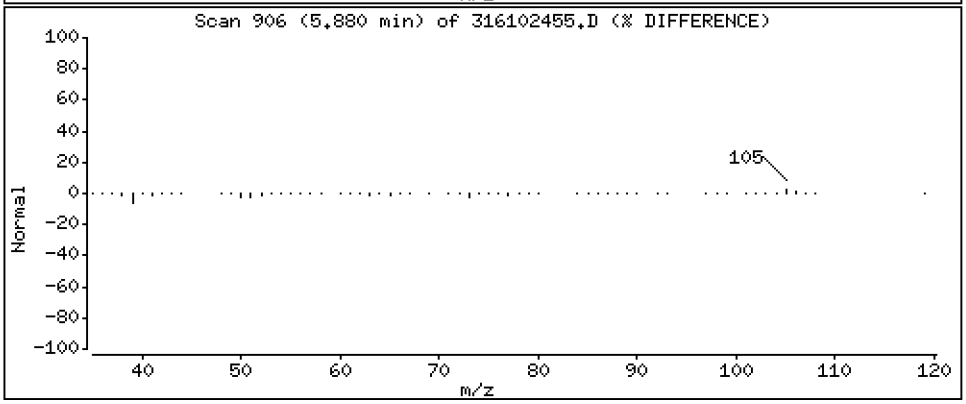
Column phase: DB-VRX Column diameter: 0.25

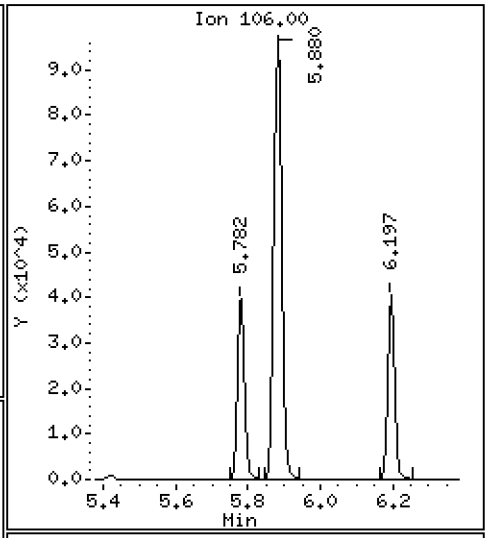
87 mp-Xylene Concentration: 10.9242 ug/L

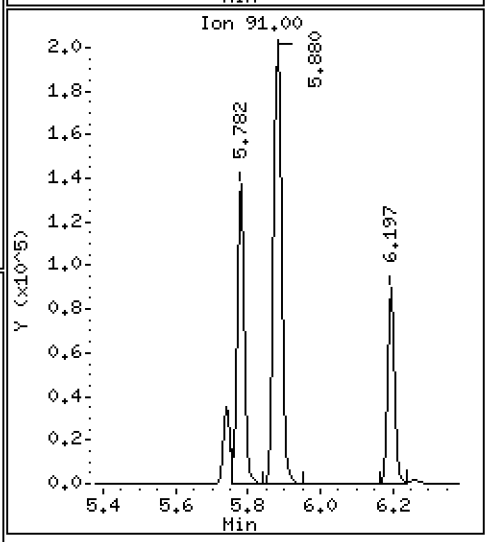












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 91

Date : 25-OCT-2016 00:08

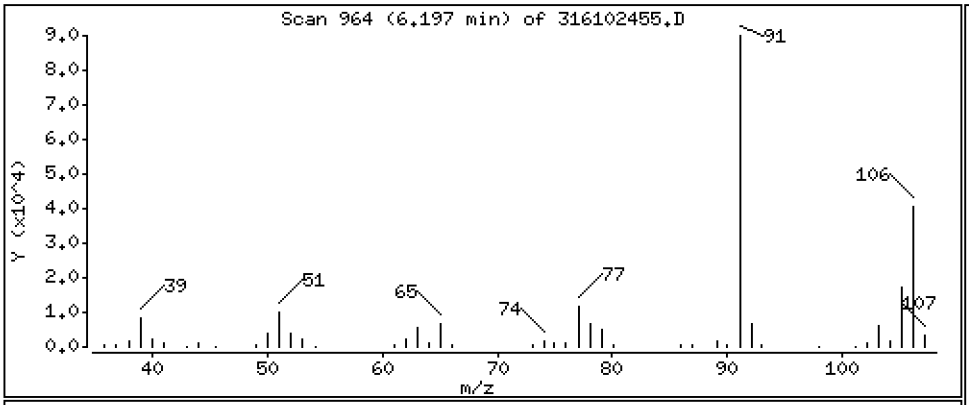
Client ID: Instrument: ms03.i

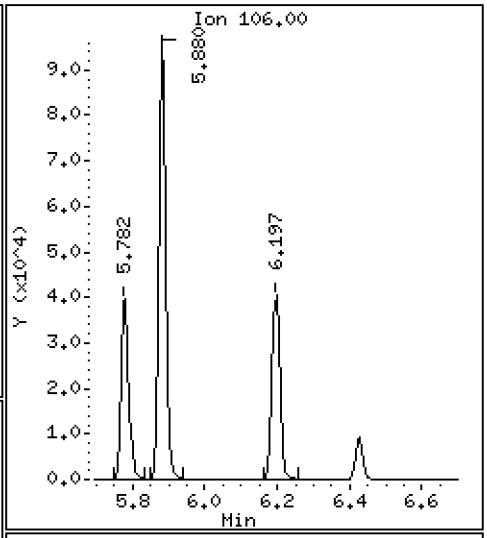
Sample Info: 1235;;1;1;2;;;

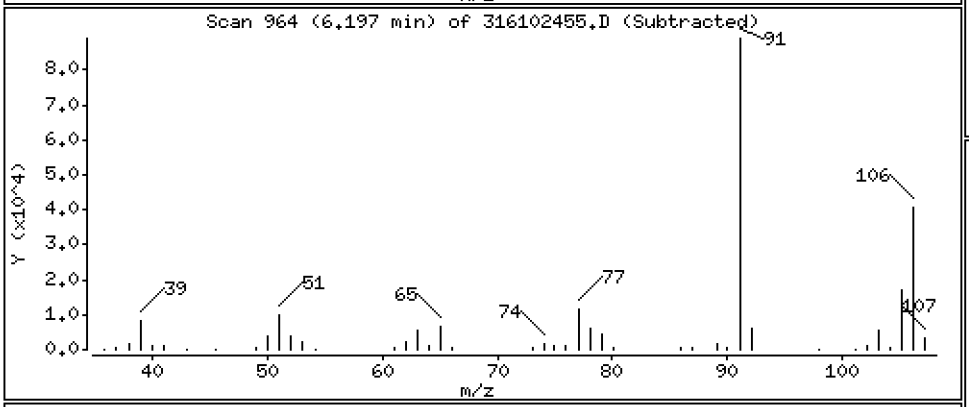
Purge Volume: 5.0 Operator: CJG

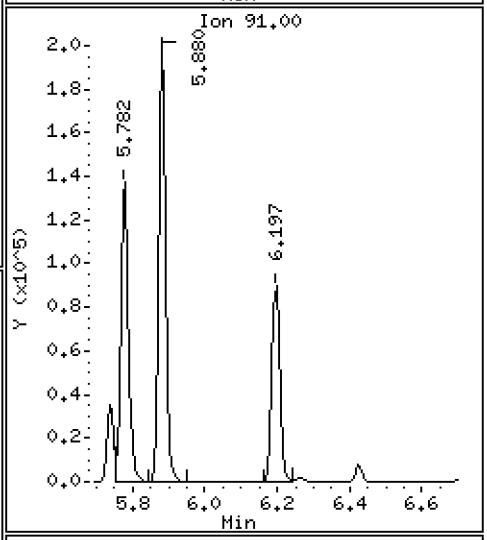
Column phase: DB-VRX Column diameter: 0.25

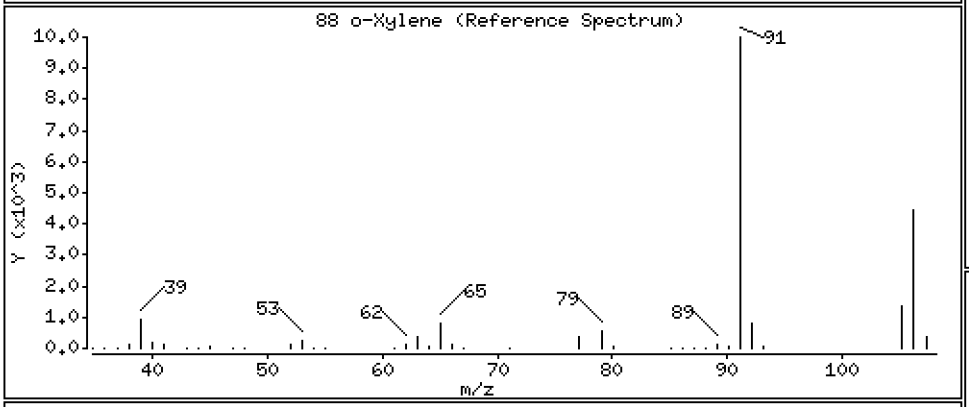
88 o-Xylene Concentration: 4.93441 ug/L

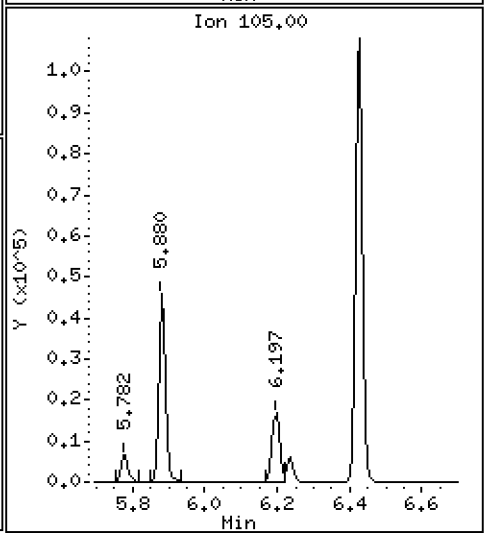


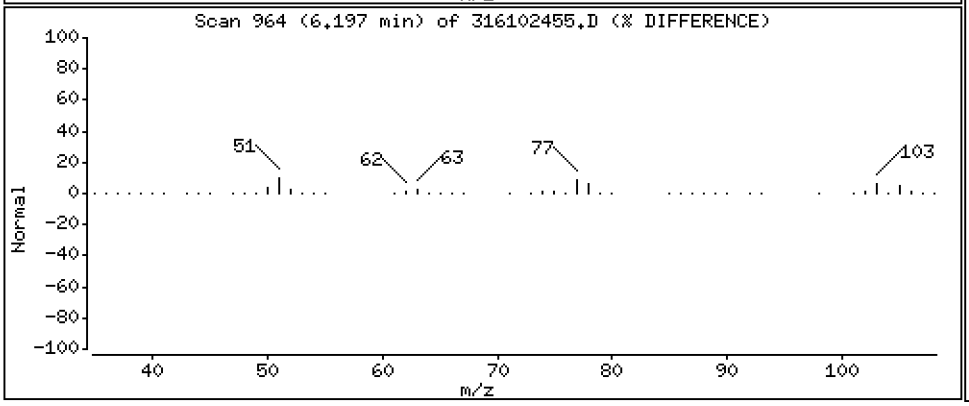












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 92

Date : 25-OCT-2016 00:08

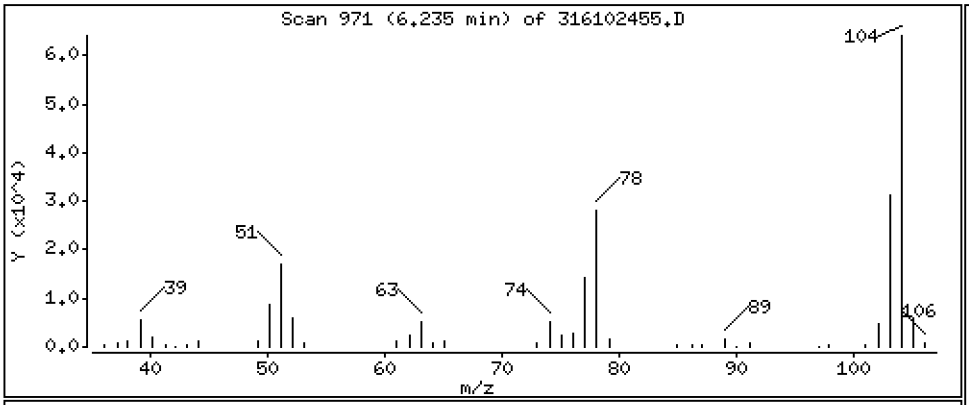
Client ID: Instrument: ms03.i

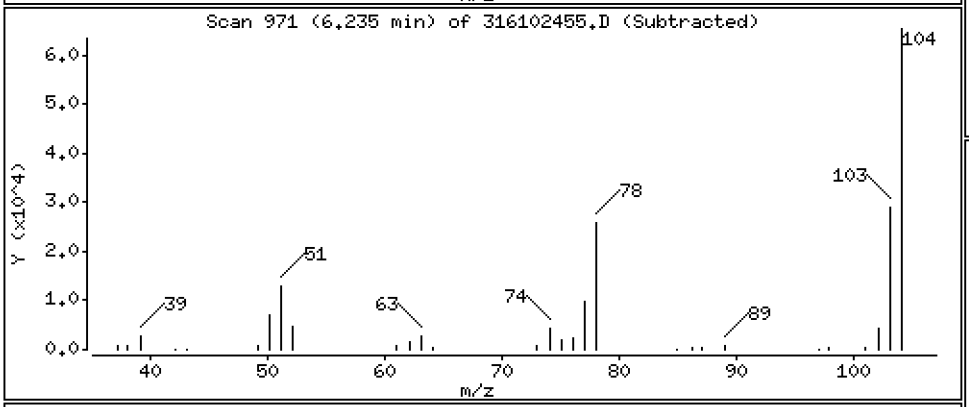
Sample Info: 1235;;1;1;2;;;

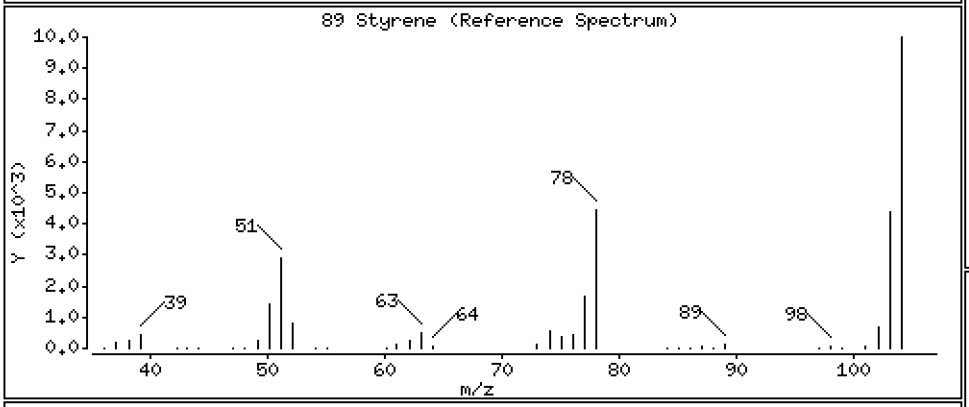
Purge Volume: 5.0 Operator: CJG

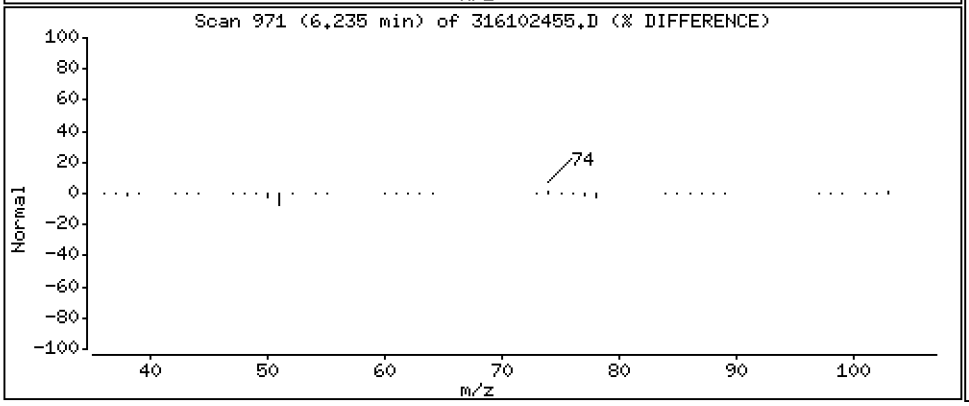
Column phase: DB-VRX Column diameter: 0.25

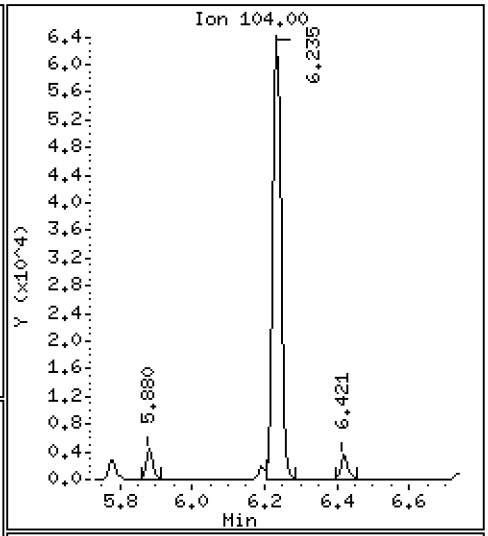
89 Styrene Concentration: 4.91679 ug/L

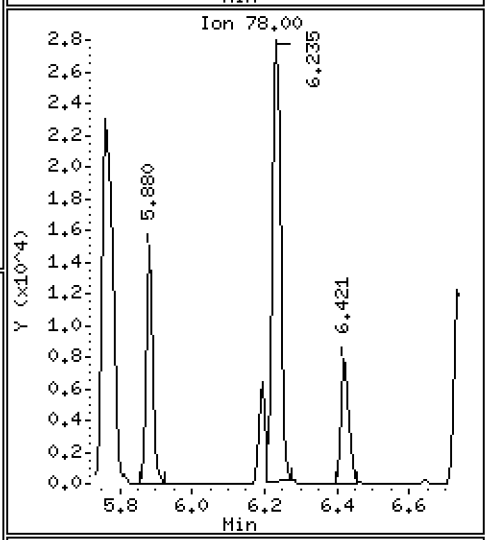


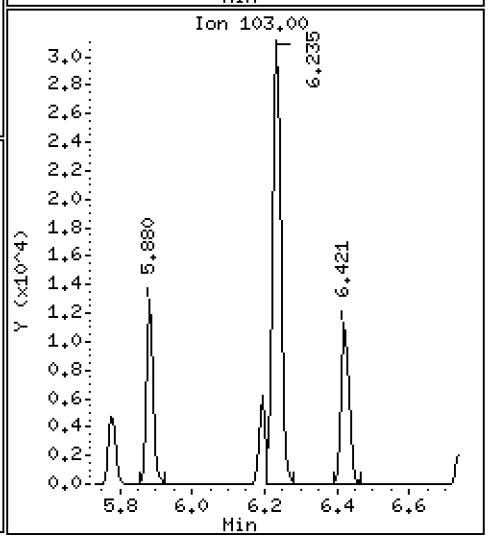












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 93

Date : 25-OCT-2016 00:08

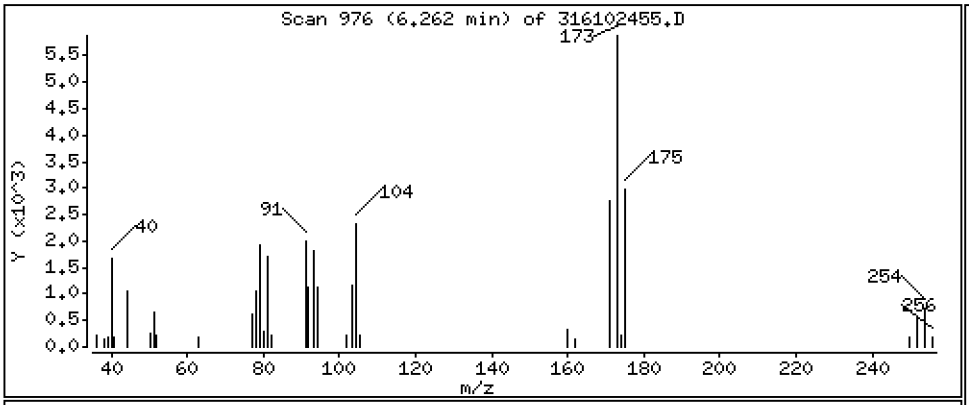
Client ID: Instrument: ms03.i

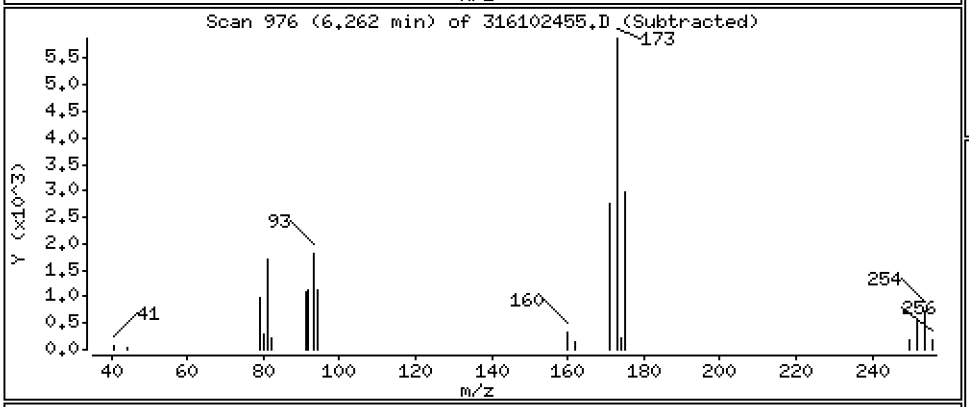
Sample Info: 1235;;1;1;2;;;

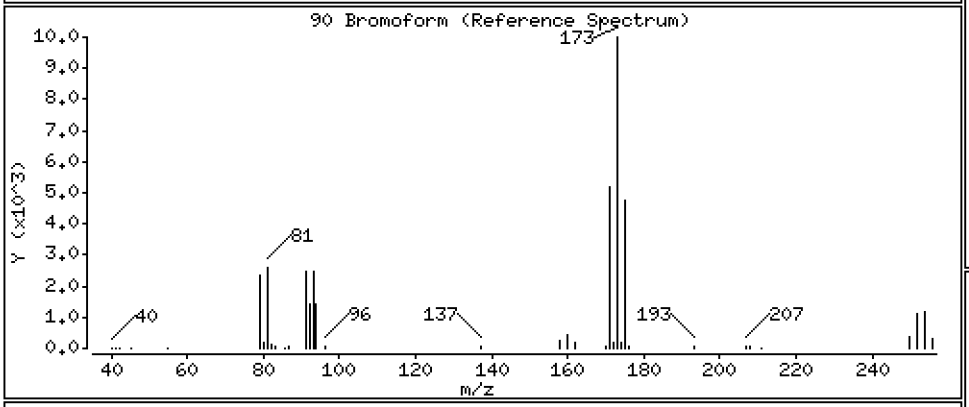
Purge Volume: 5.0 Operator: CJG

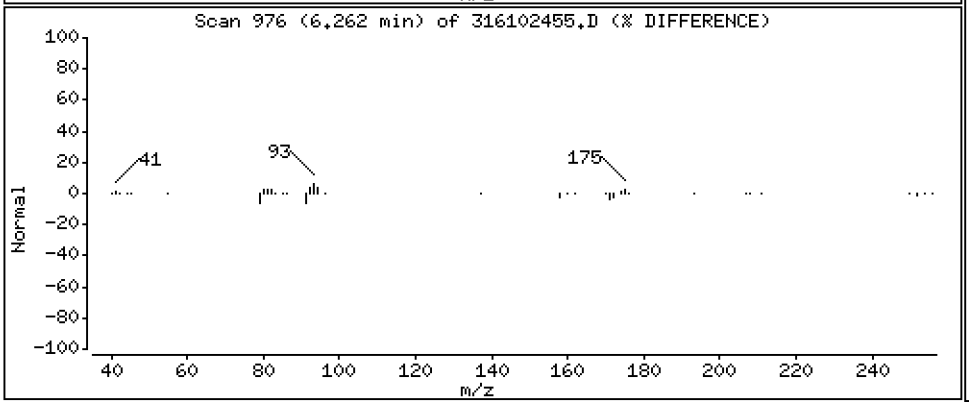
Column phase: DB-VRX Column diameter: 0.25

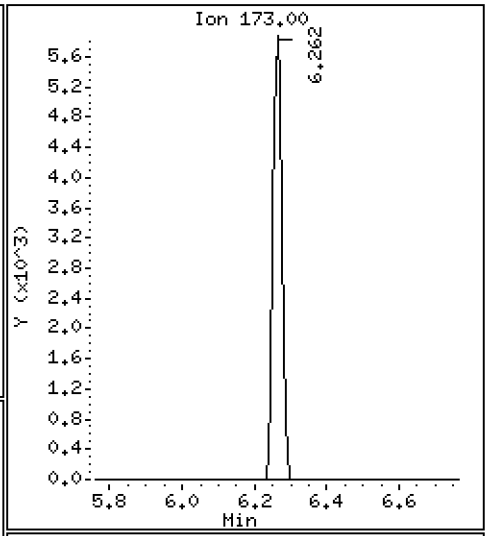
90 Bromoform Concentration: 4.09499 ug/L

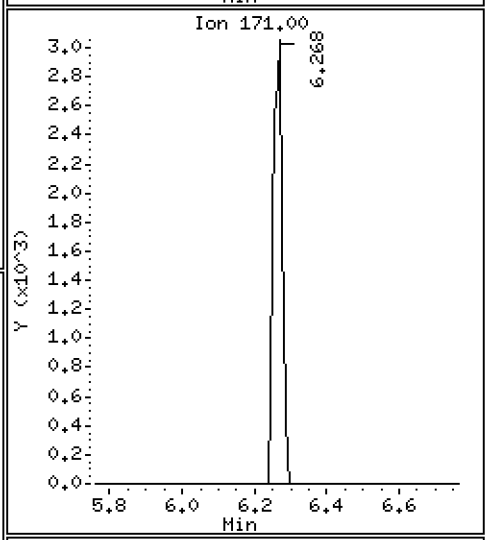


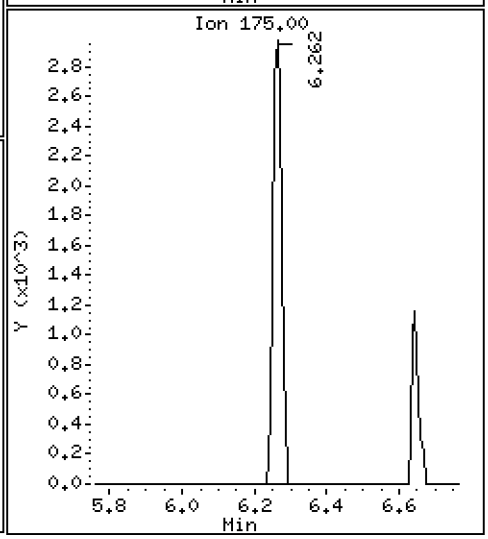












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 94

Date : 25-OCT-2016 00:08

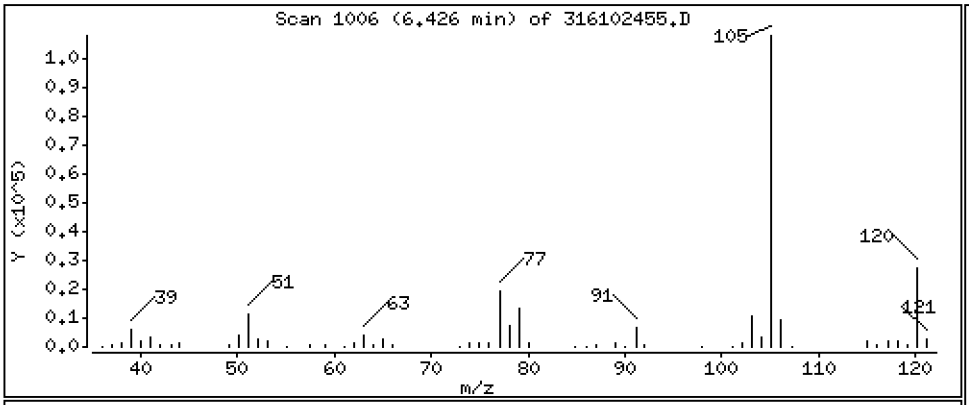
Client ID: Instrument: ms03.i

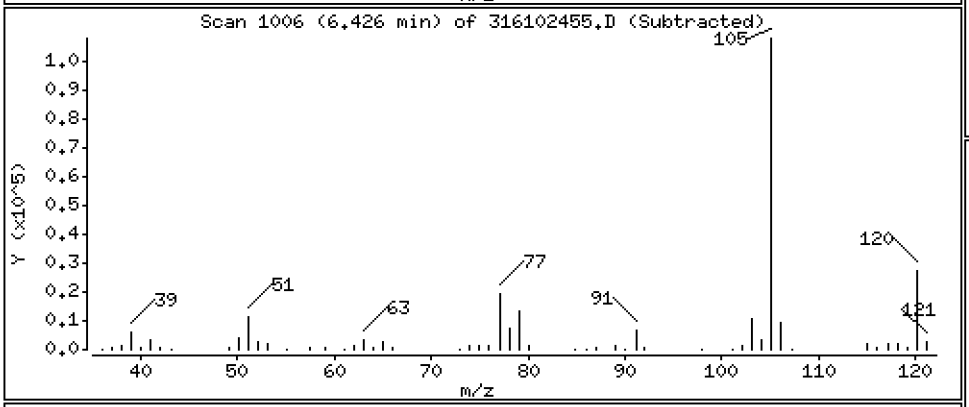
Sample Info: 1235;;1;1;2;;;

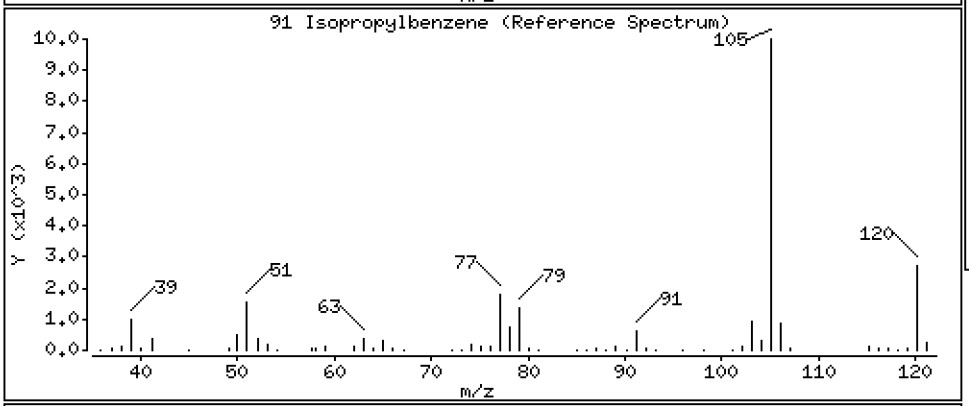
Purge Volume: 5.0 Operator: CJG

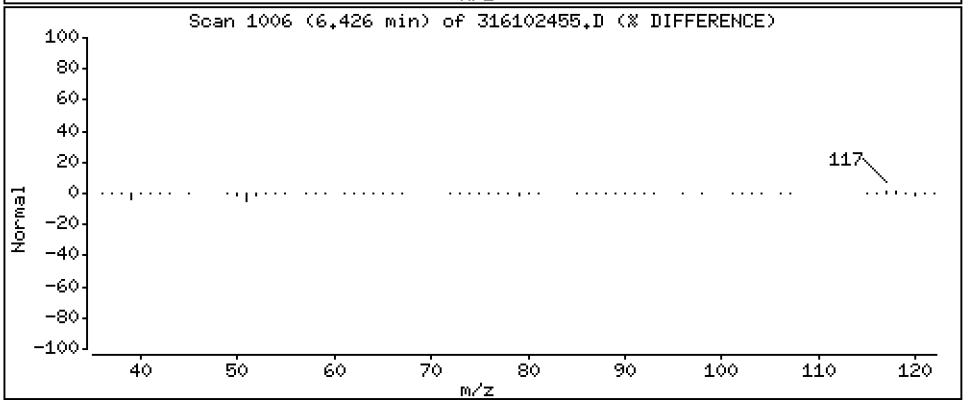
Column phase: DB-VRX Column diameter: 0.25

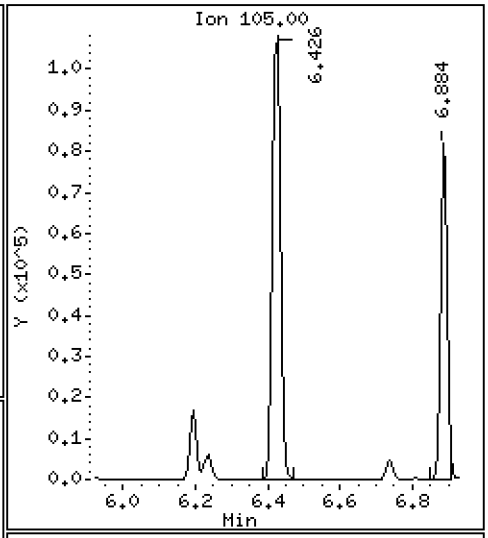
91 Isopropylbenzene Concentration: 5.35267 ug/L

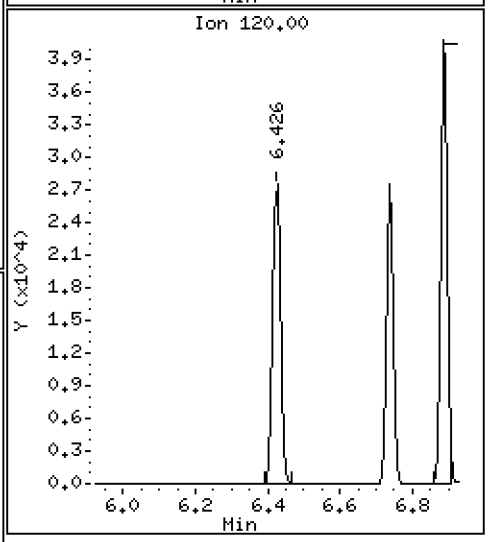












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 95

Date : 25-OCT-2016 00:08

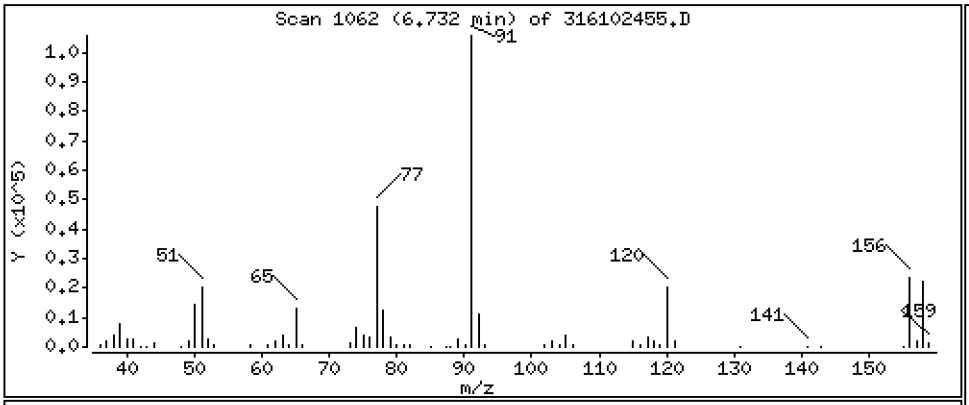
Client ID: Instrument: ms03.i

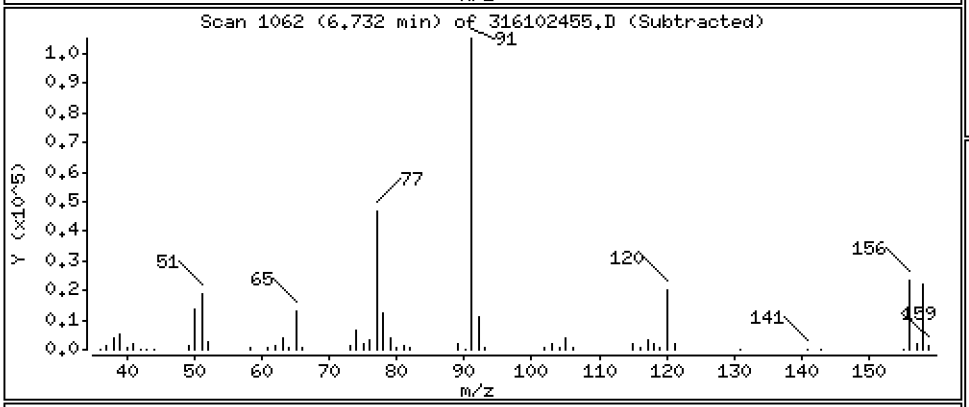
Sample Info: 1235;;1;1;2;;;

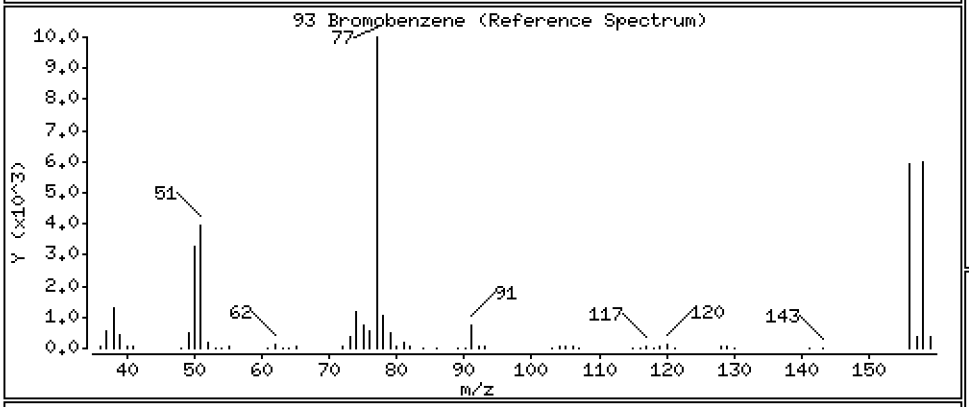
Purge Volume: 5.0 Operator: CJG

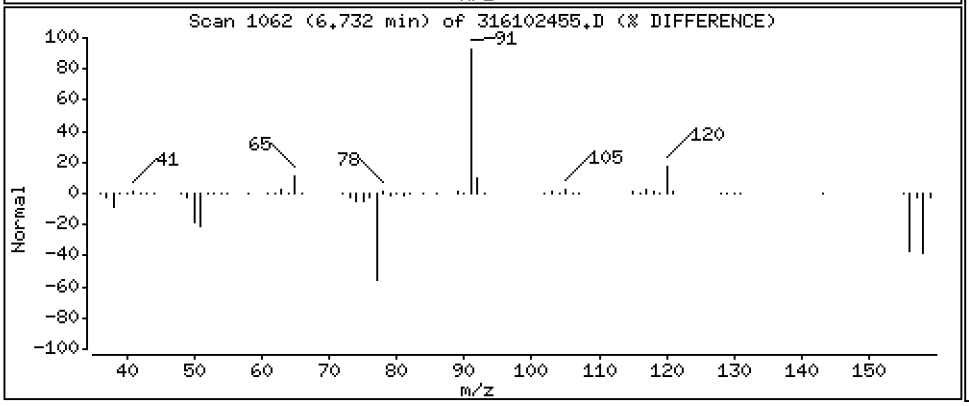
Column phase: DB-VRX Column diameter: 0.25

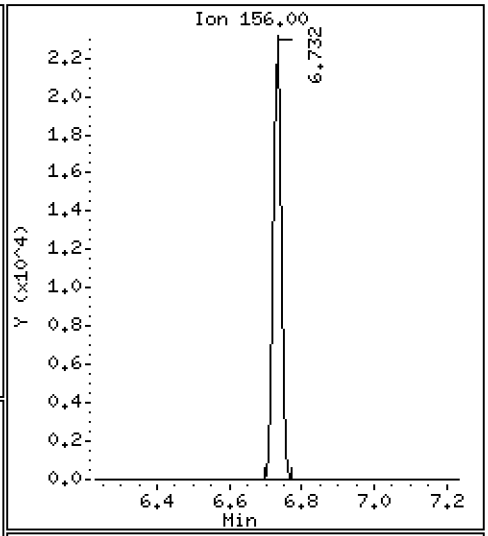
93 Bromobenzene Concentration: 5.47376 ug/L

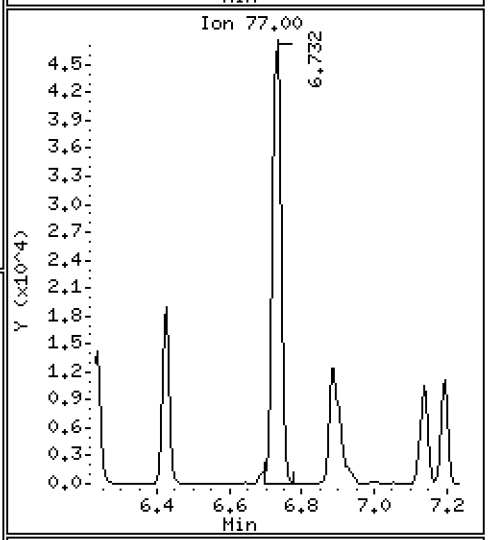


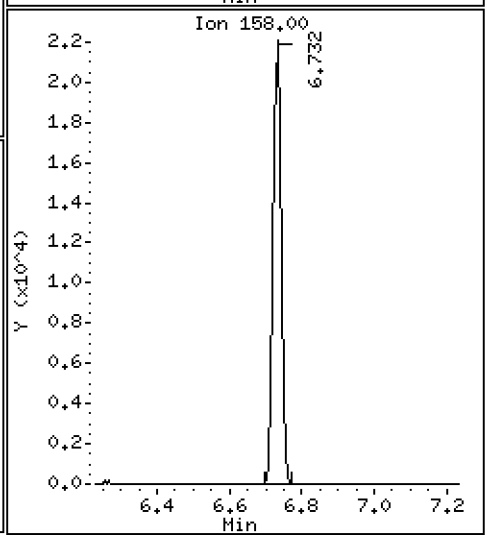












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 96

Date : 25-OCT-2016 00:08

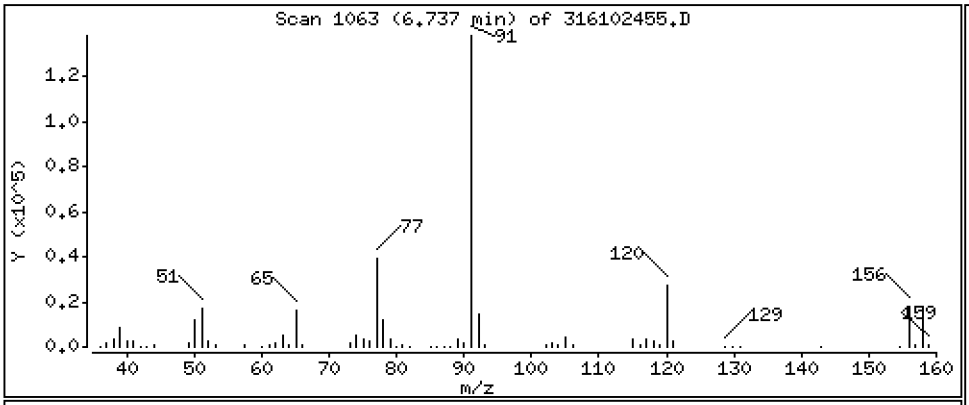
Client ID: Instrument: ms03.i

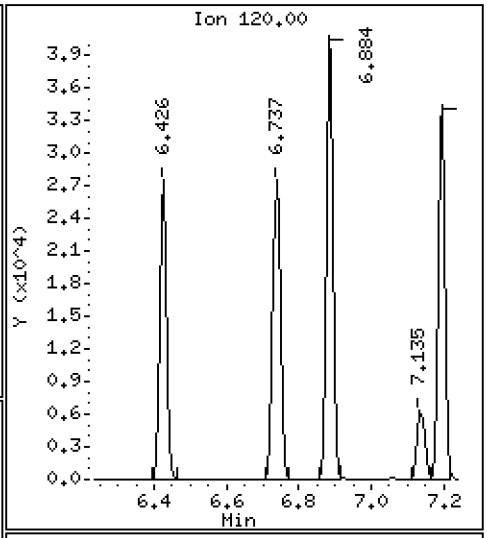
Sample Info: 1235;;1;1;2;;;

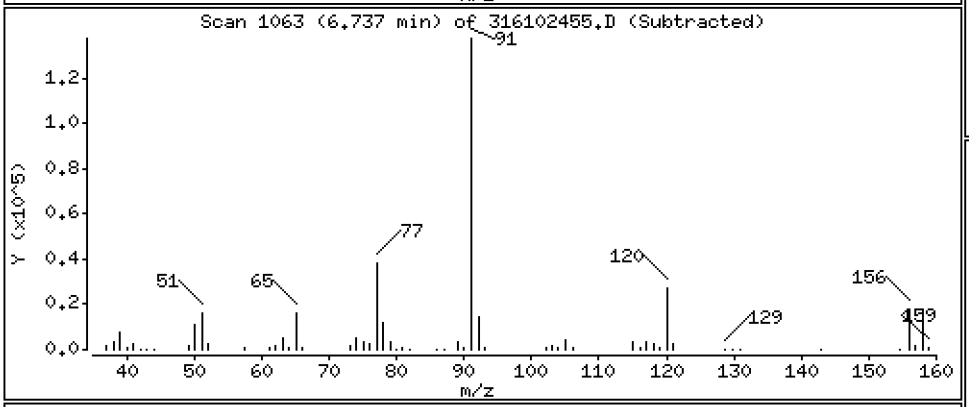
Purge Volume: 5.0 Operator: CJG

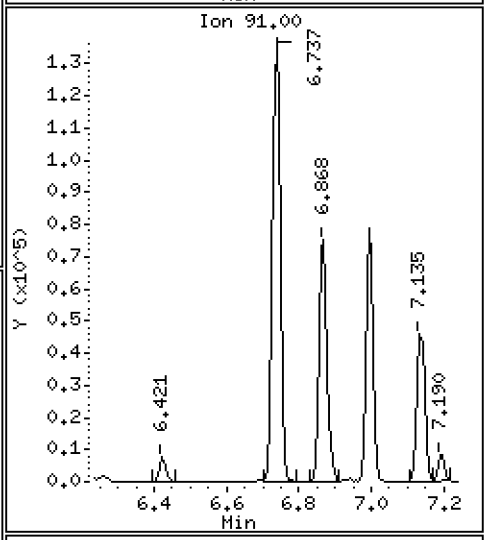
Column phase: DB-VRX Column diameter: 0.25

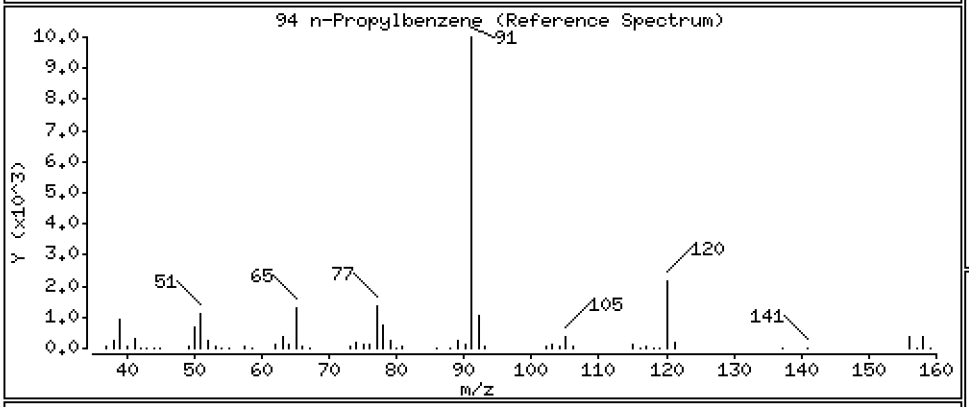
94 n-Propylbenzene Concentration: 5.23707 ug/L

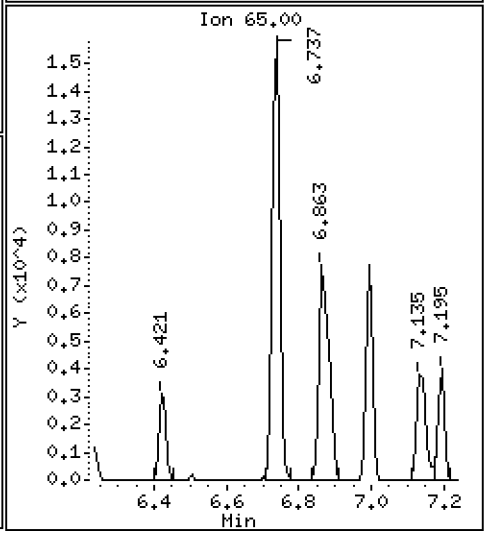


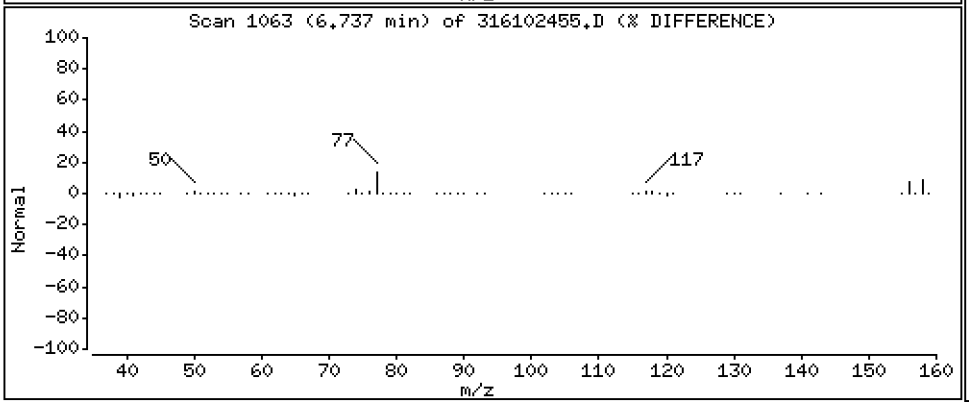












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 97

Date : 25-OCT-2016 00:08

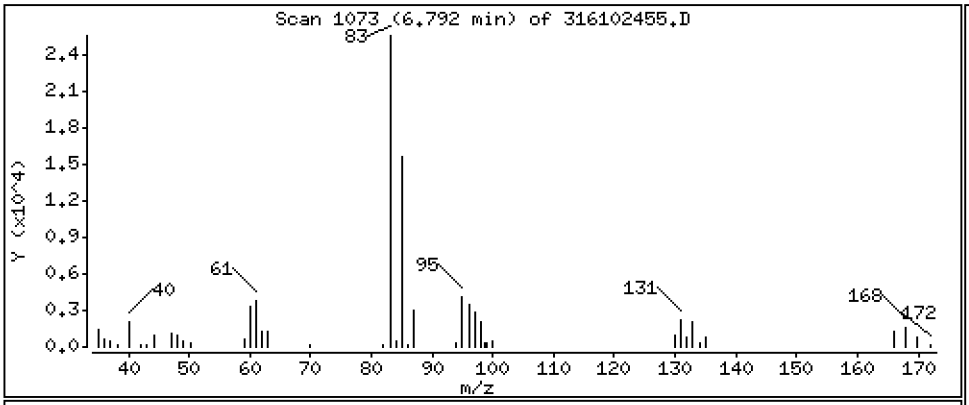
Client ID: Instrument: ms03.i

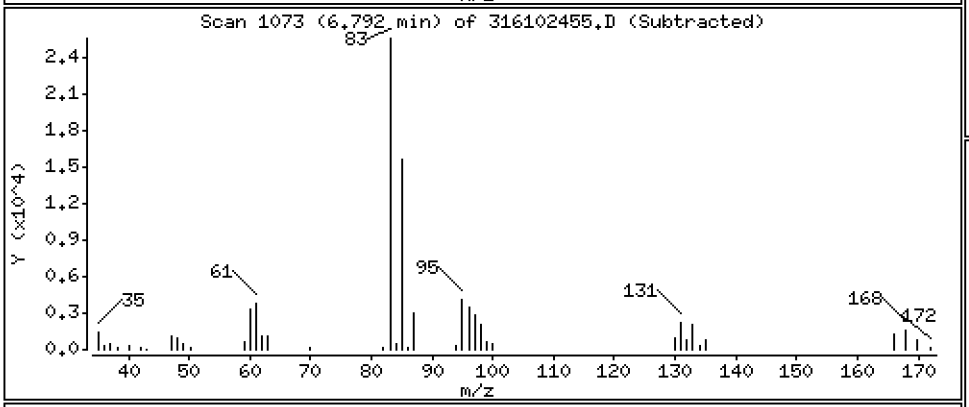
Sample Info: 1235;;1;1;2;;;

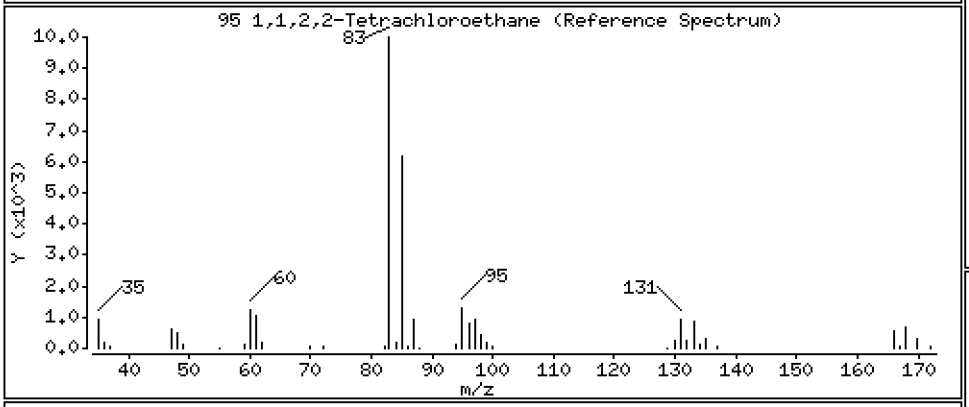
Purge Volume: 5.0 Operator: CJG

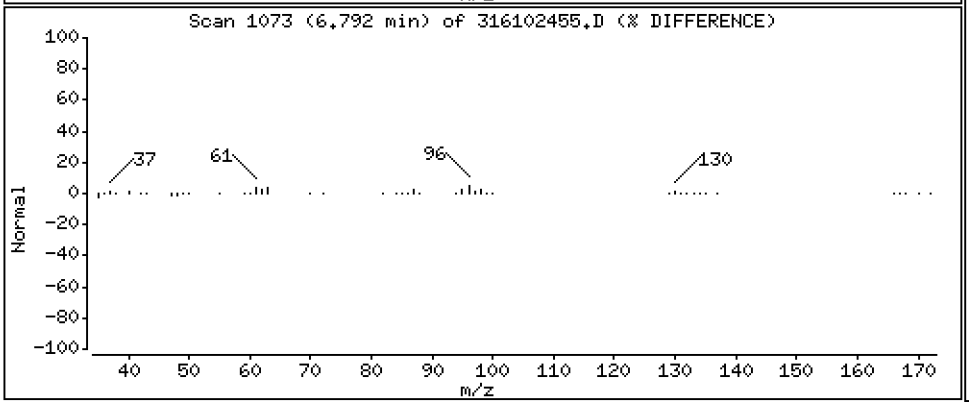
Column phase: DB-VRX Column diameter: 0.25

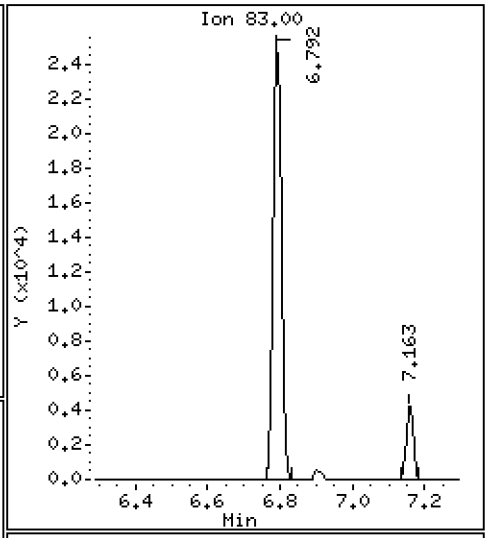
95 1,1,2,2-Tetrachloroethane Concentration: 5.22071 ug/L

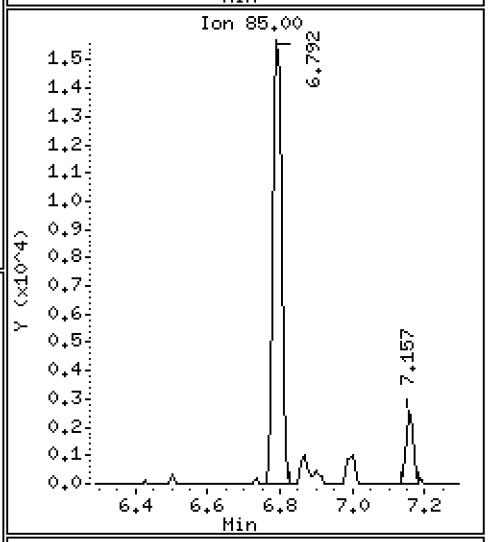


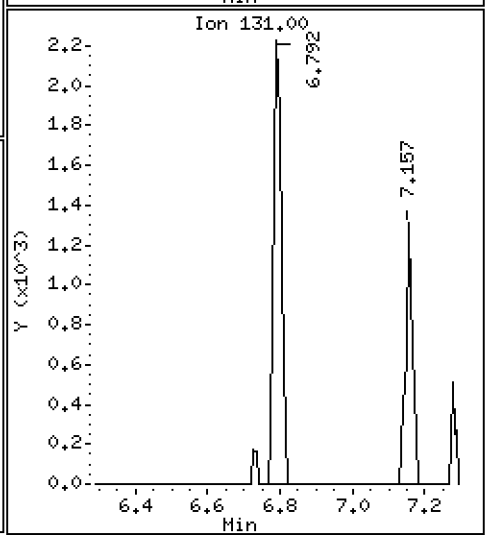












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 98

Date : 25-OCT-2016 00:08

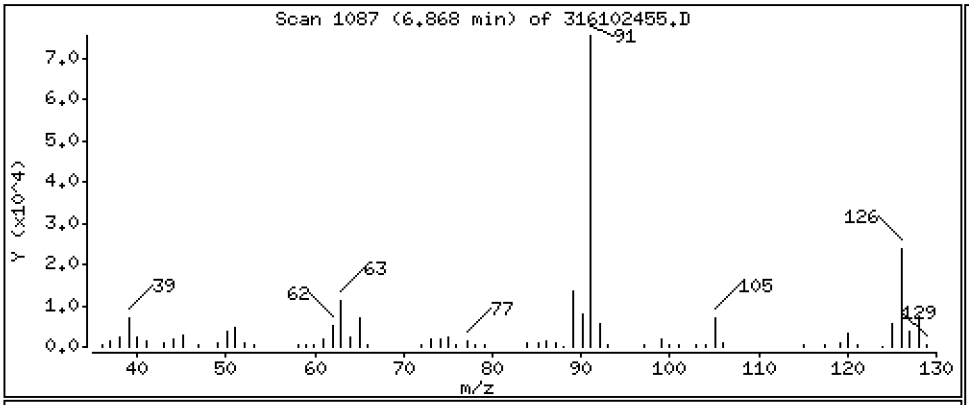
Client ID: Instrument: ms03.i

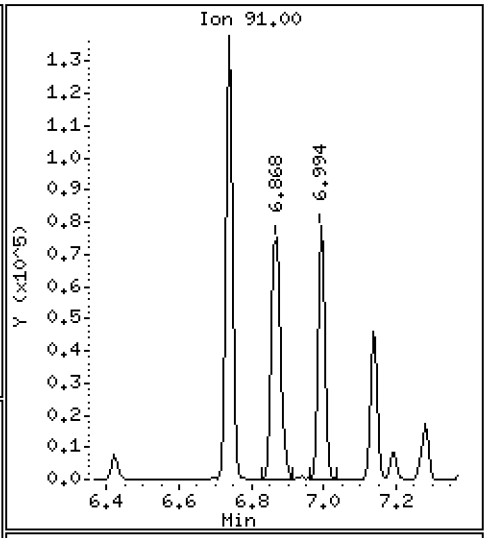
Sample Info: 1235;;1;1;2;;;

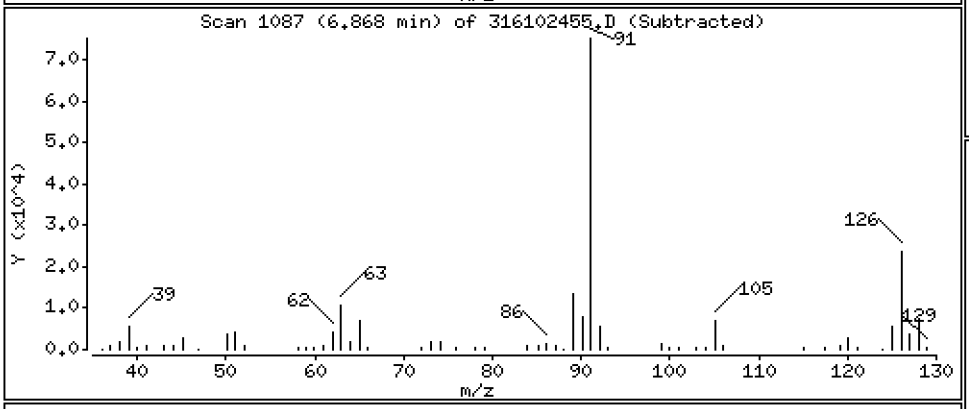
Purge Volume: 5.0 Operator: CJG

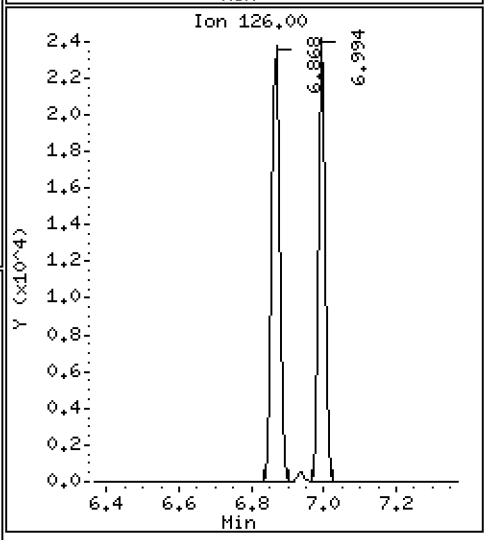
Column phase: DB-VRX Column diameter: 0.25

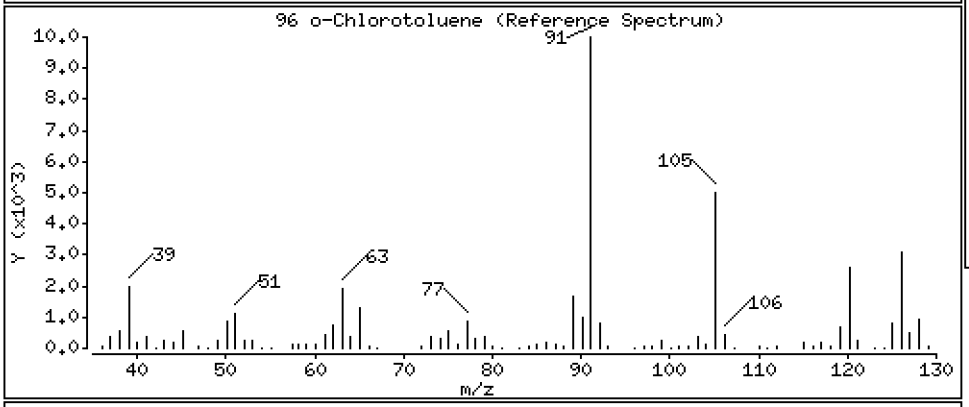
96 o-Chlorotoluene Concentration: 5.47627 ug/L

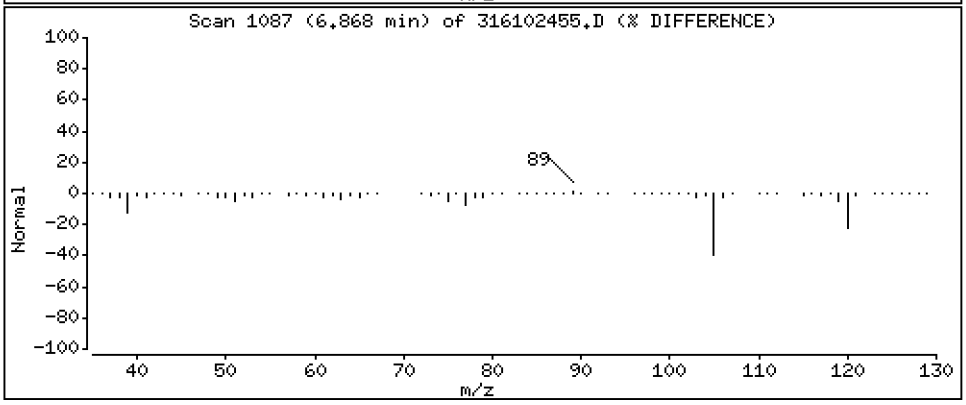












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 99

Date : 25-OCT-2016 00:08

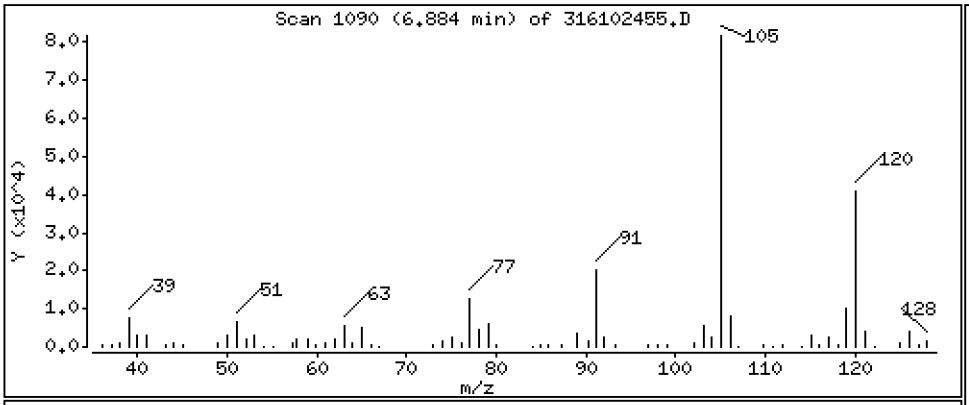
Client ID: Instrument: ms03.i

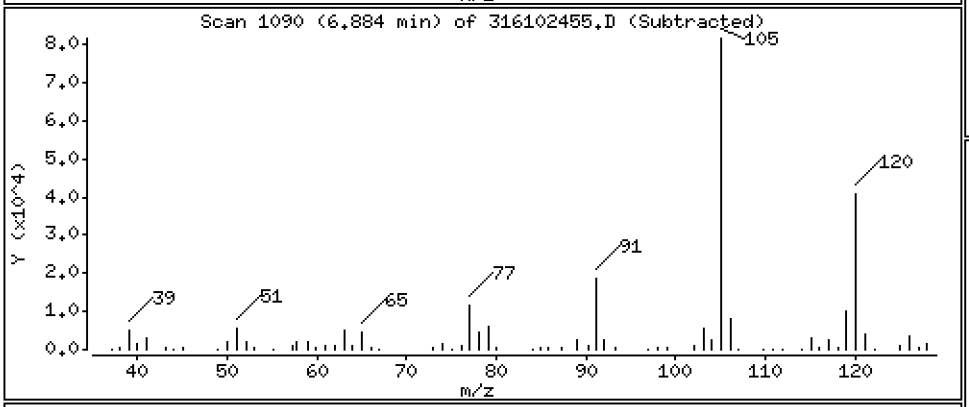
Sample Info: 1235;;1;1;2;;;

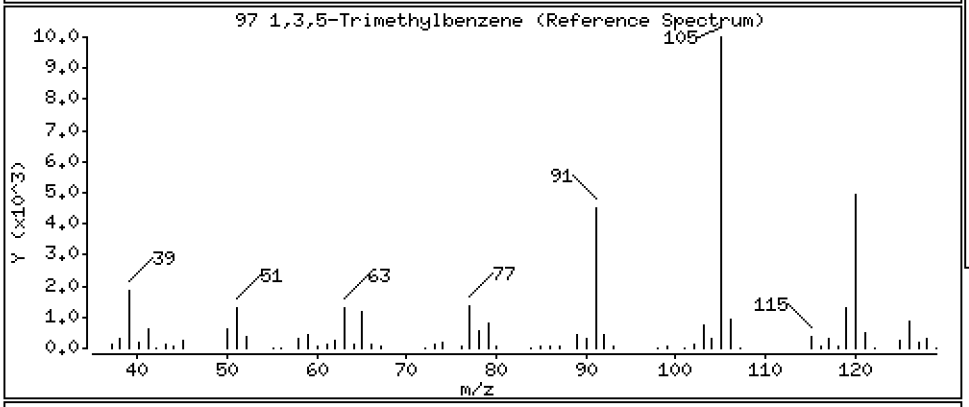
Purge Volume: 5.0 Operator: CJG

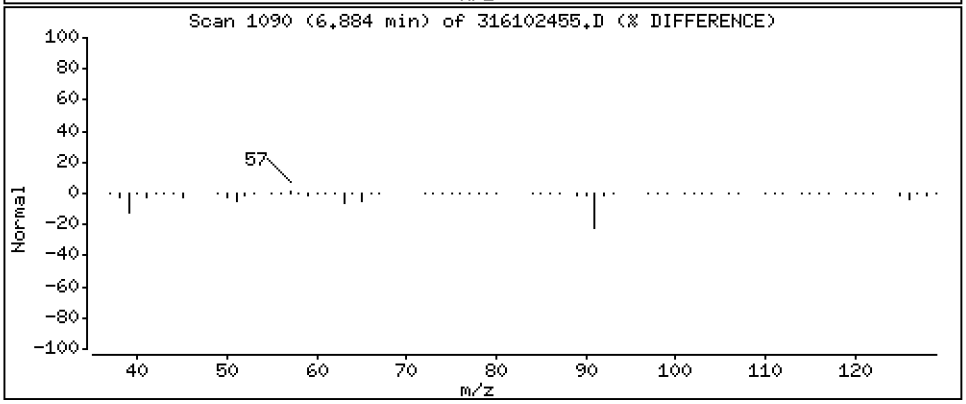
Column phase: DB-VRX Column diameter: 0.25

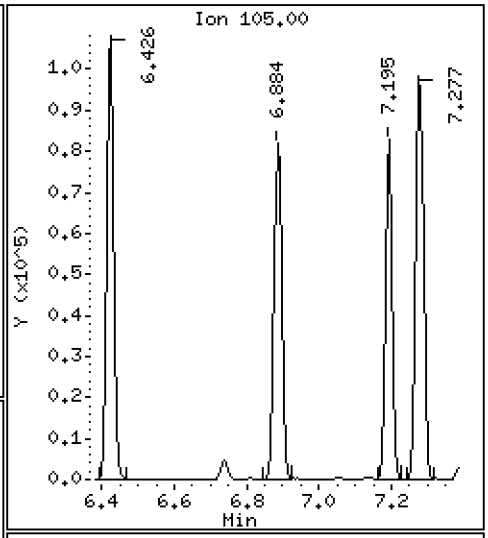
97 1,3,5-Trimethylbenzene Concentration: 5.09809 ug/L

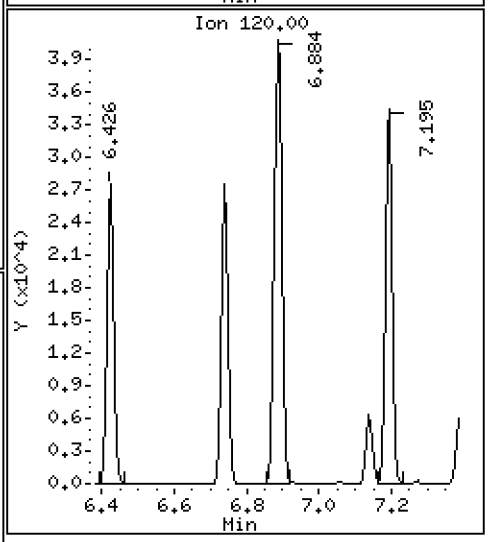












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 100

Date : 25-OCT-2016 00:08

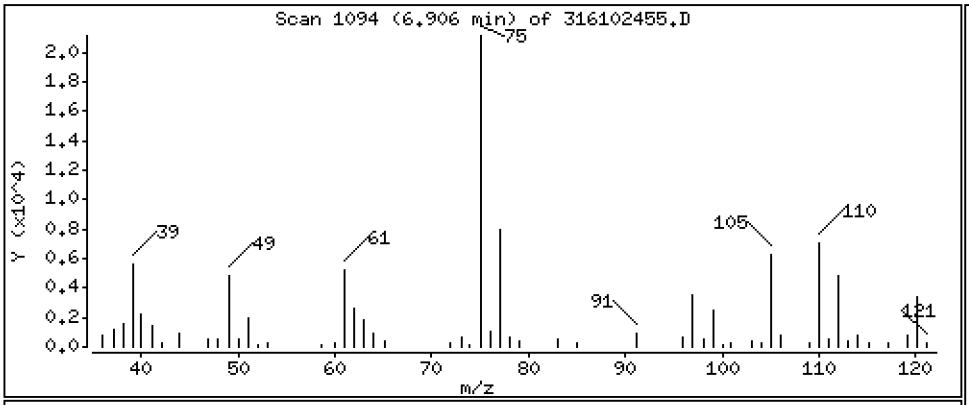
Client ID: Instrument: ms03.i

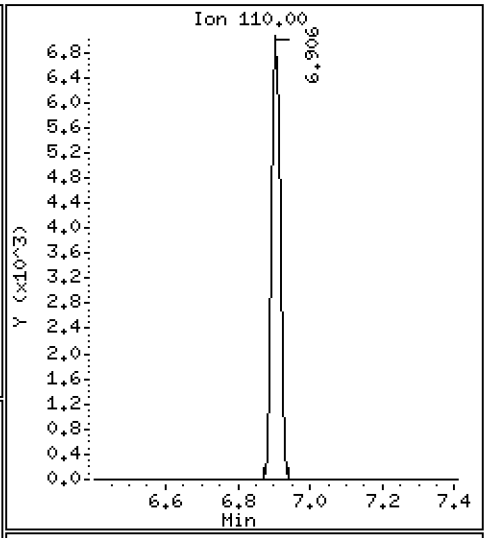
Sample Info: 1235;;1;1;2;;;

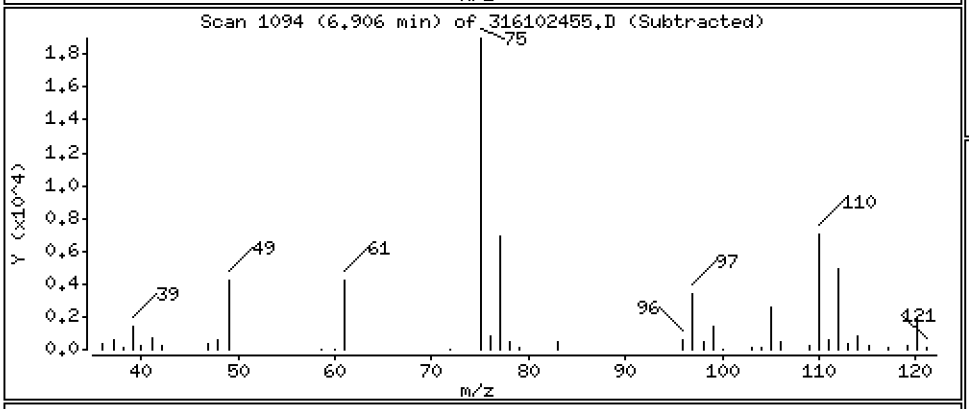
Purge Volume: 5.0 Operator: CJG

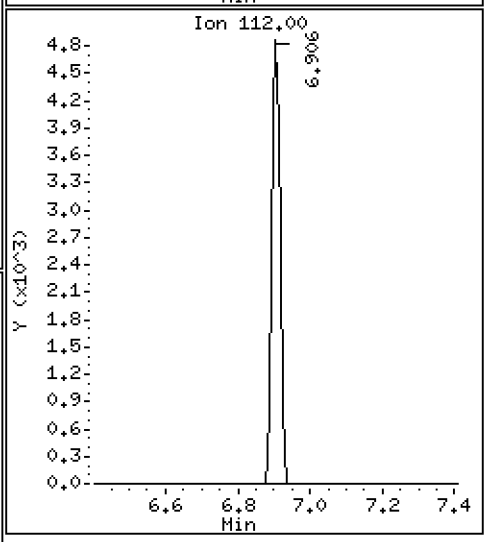
Column phase: DB-VRX Column diameter: 0.25

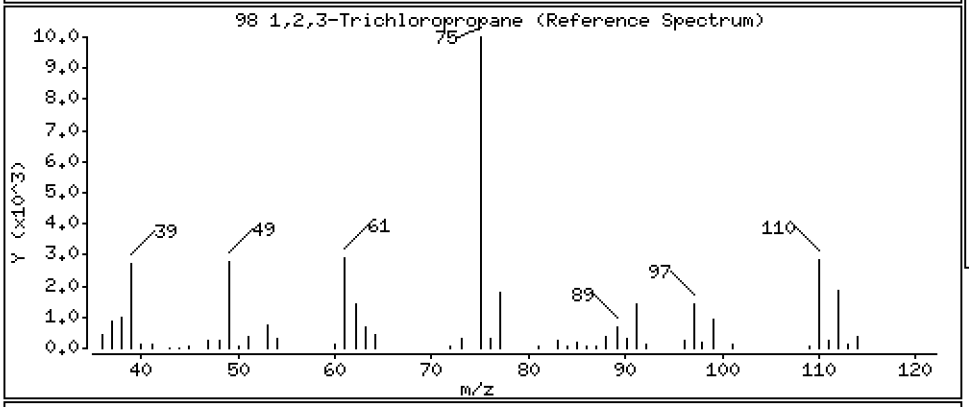
98 1,2,3-Trichloropropane Concentration: 5.32925 ug/L

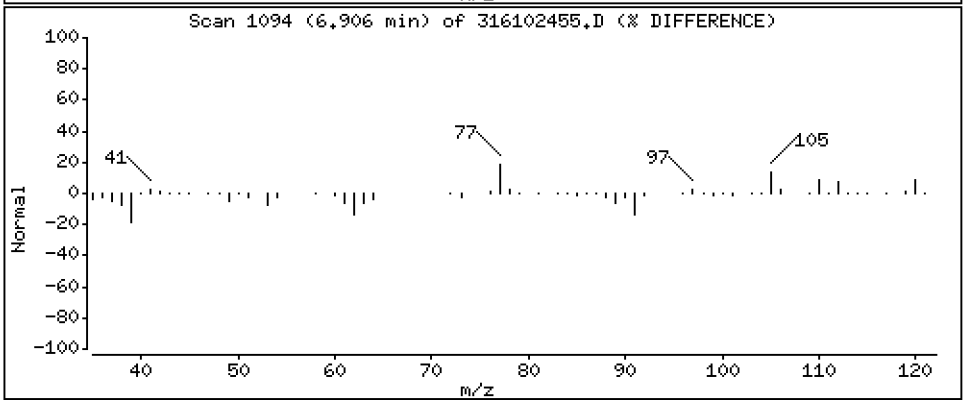












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 101

Date : 25-OCT-2016 00:08

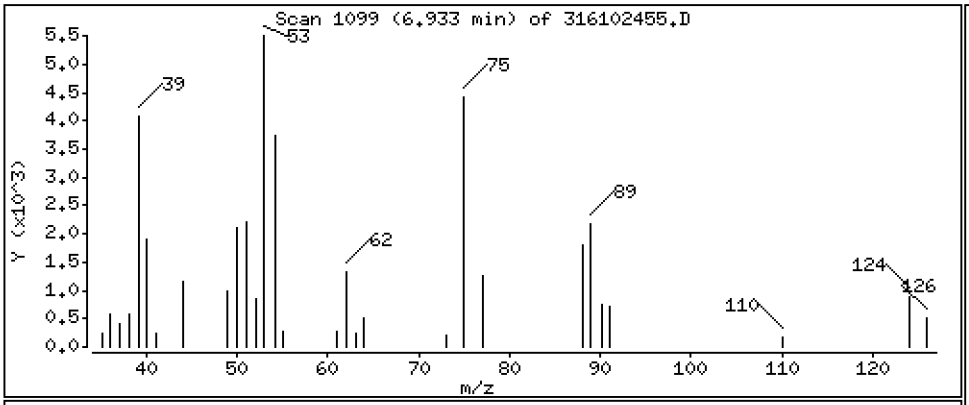
Client ID: Instrument: ms03.i

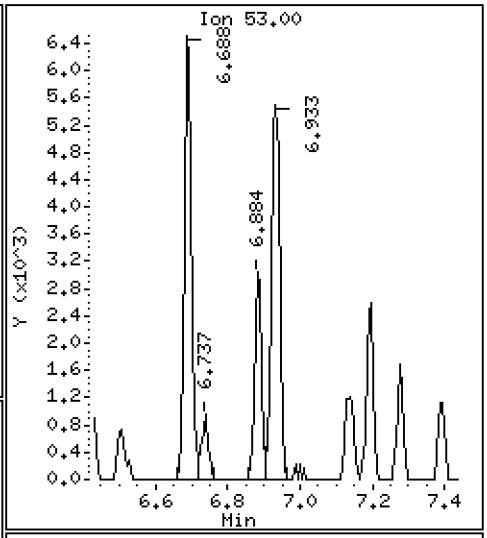
Sample Info: 1235;;1;1;2;;;

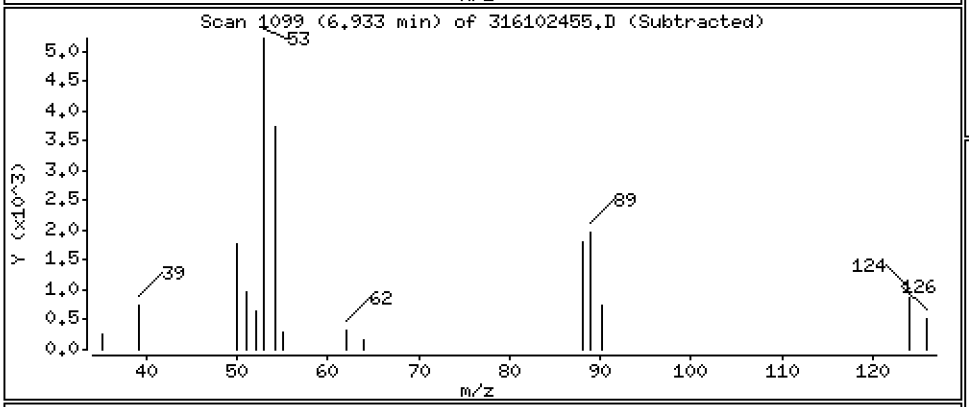
Purge Volume: 5.0 Operator: CJG

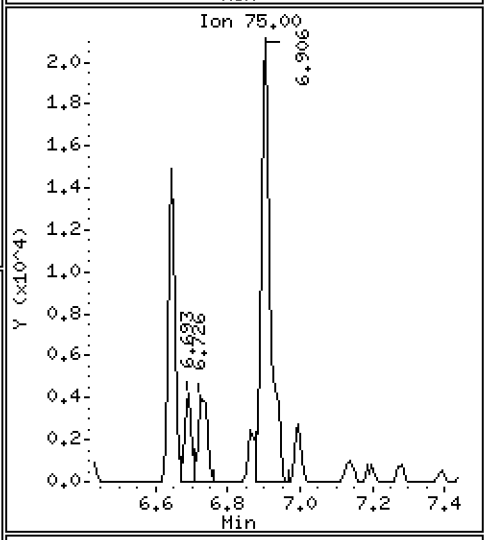
Column phase: DB-VRX Column diameter: 0.25

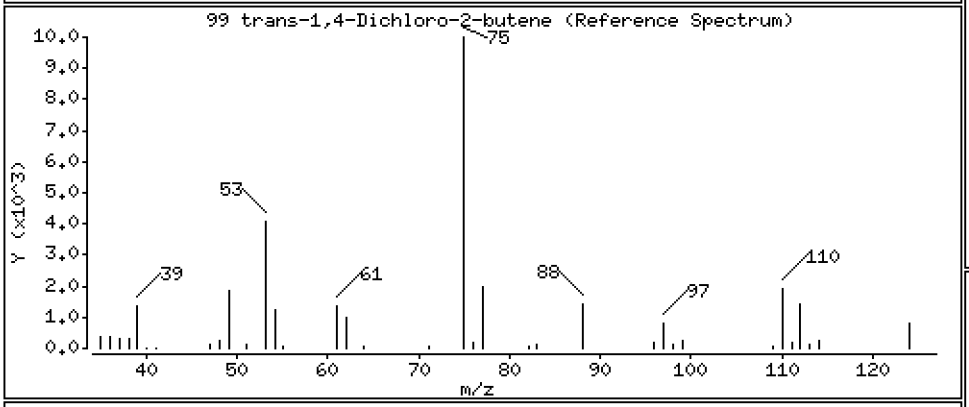
99 trans-1,4-Dichloro-2-butene Concentration: 4.28306 ug/L

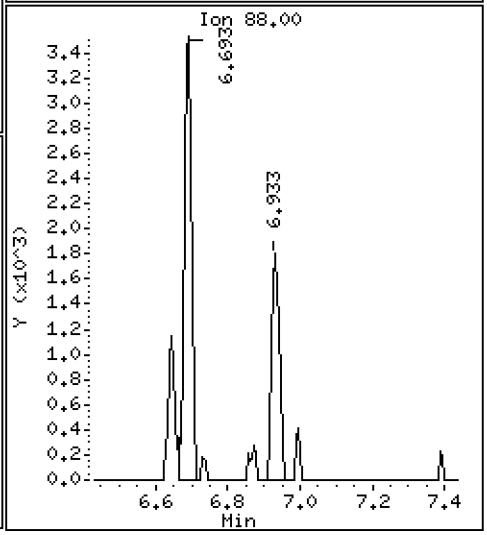


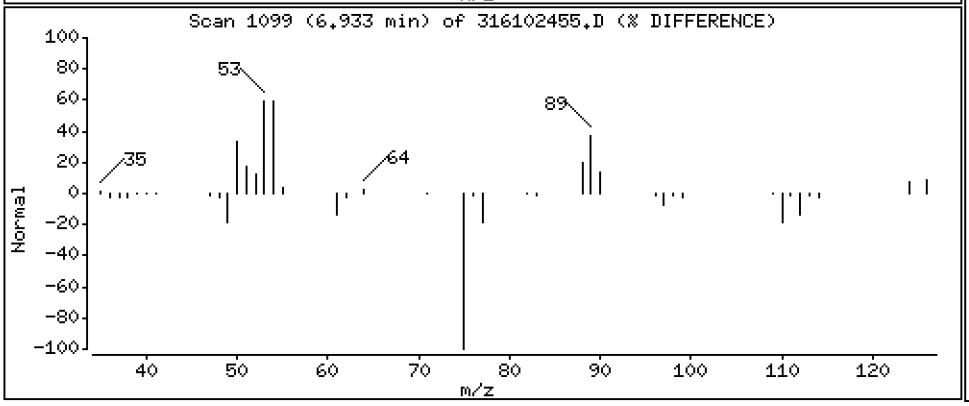












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 102

Date : 25-OCT-2016 00:08

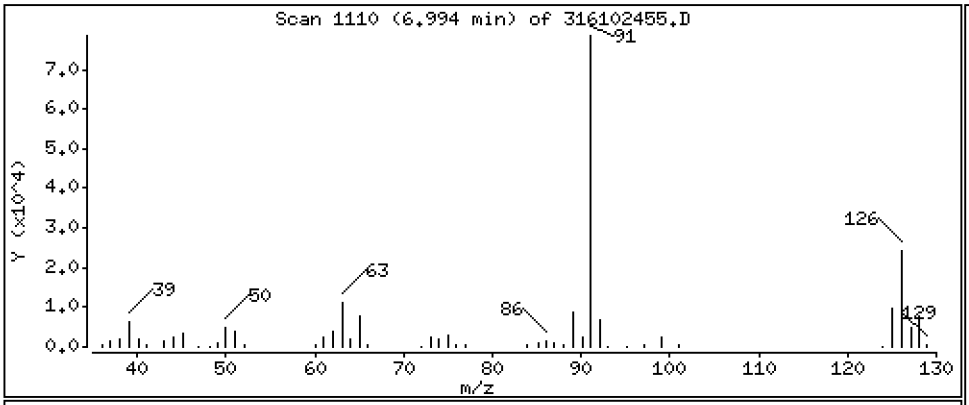
Client ID: Instrument: ms03.i

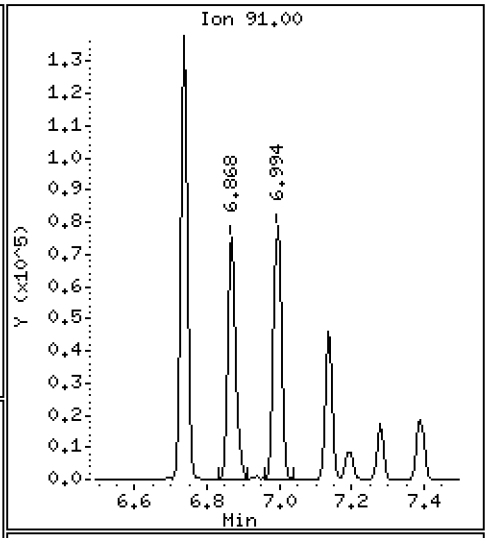
Sample Info: 1235;;1;1;2;;;

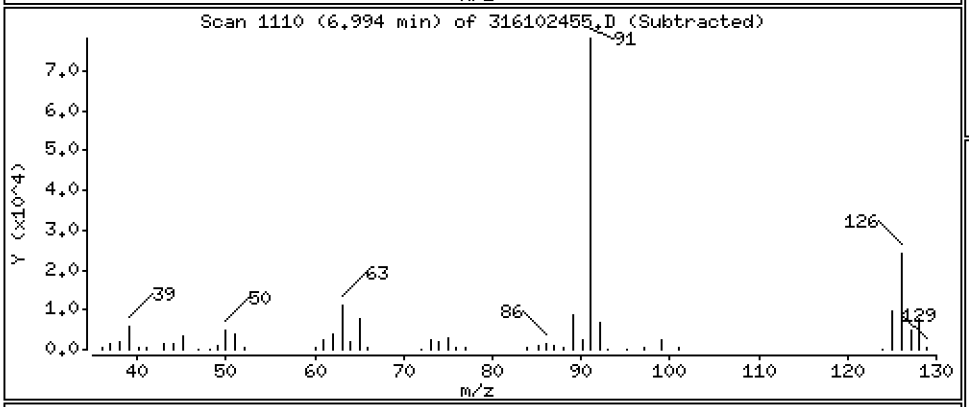
Purge Volume: 5.0 Operator: CJG

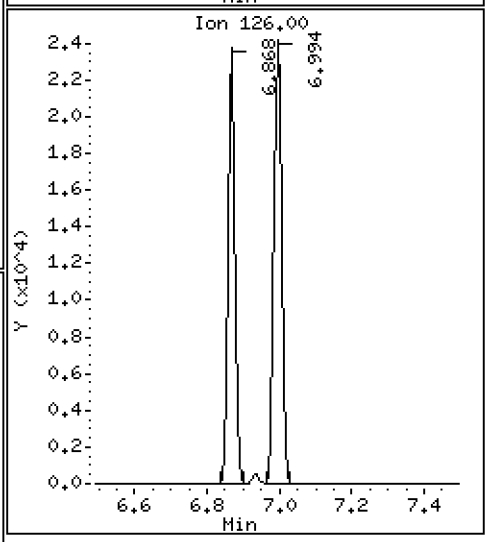
Column phase: DB-VRX Column diameter: 0.25

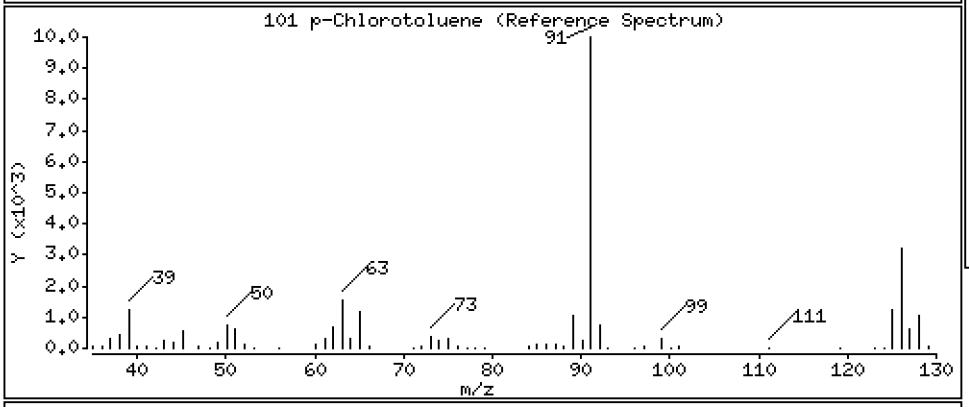
101 p-Chlorotoluene Concentration: 5.34408 ug/L

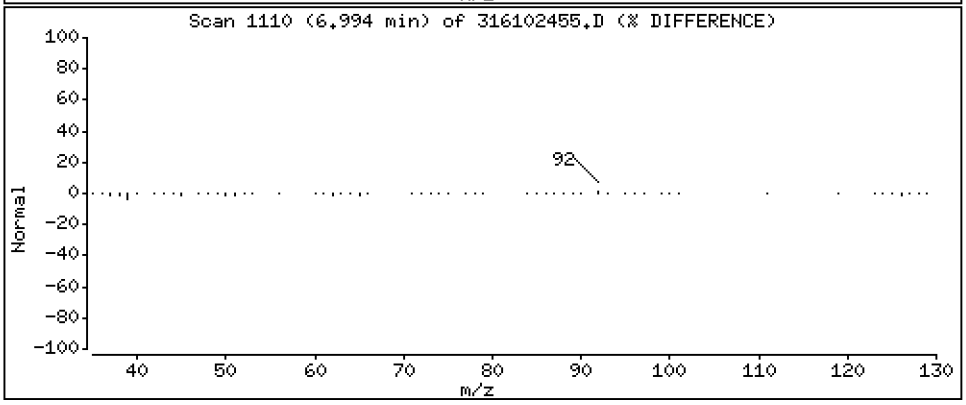












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 103

Date : 25-OCT-2016 00:08

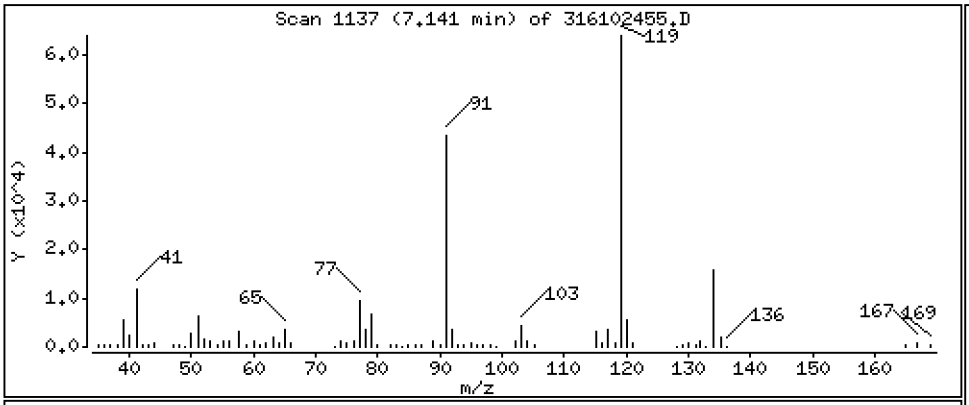
Client ID: Instrument: ms03.i

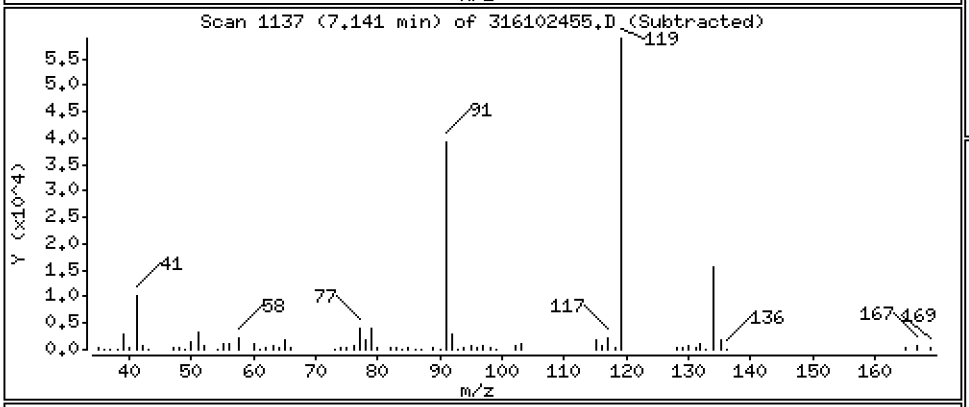
Sample Info: 1235;;1;1;2;;;

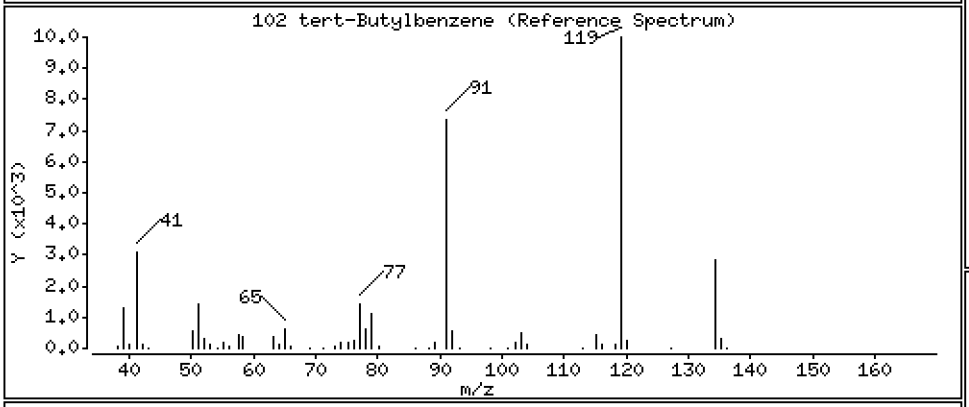
Purge Volume: 5.0 Operator: CJG

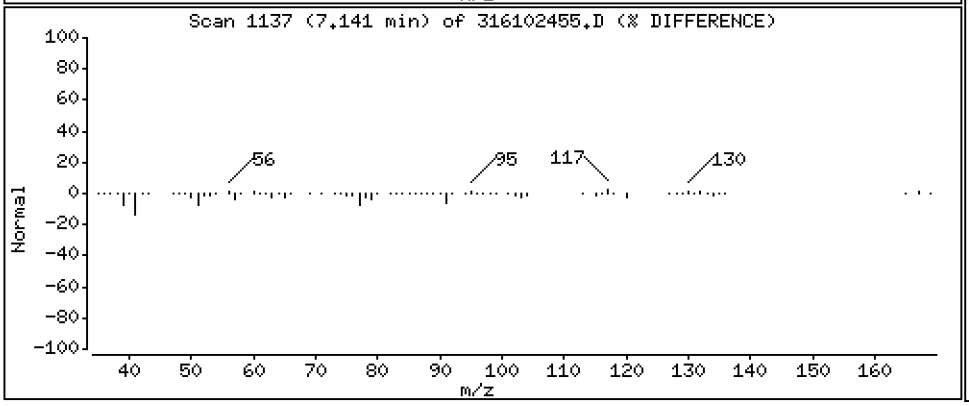
Column phase: DB-VRX Column diameter: 0.25

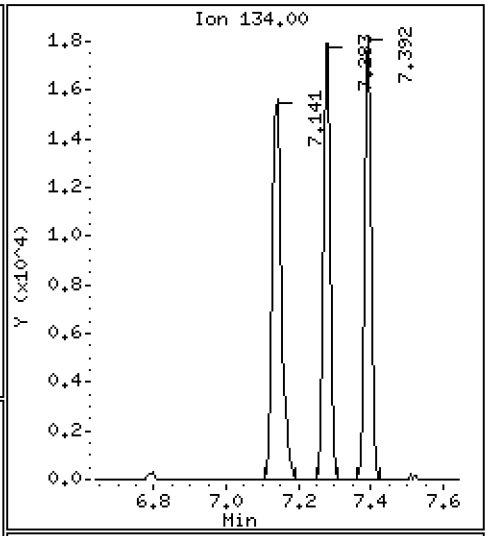
102 tert-Butylbenzene Concentration: 5.41204 ug/L

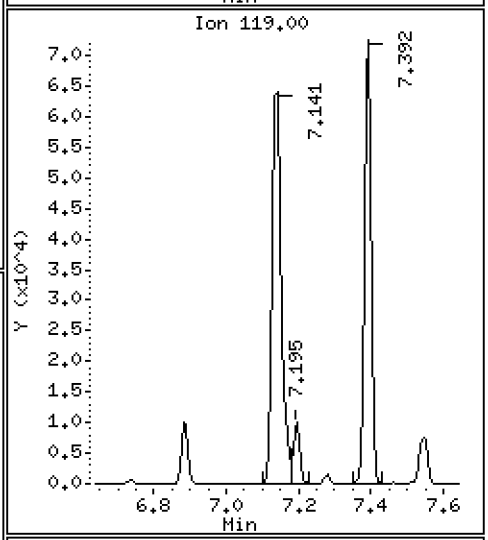


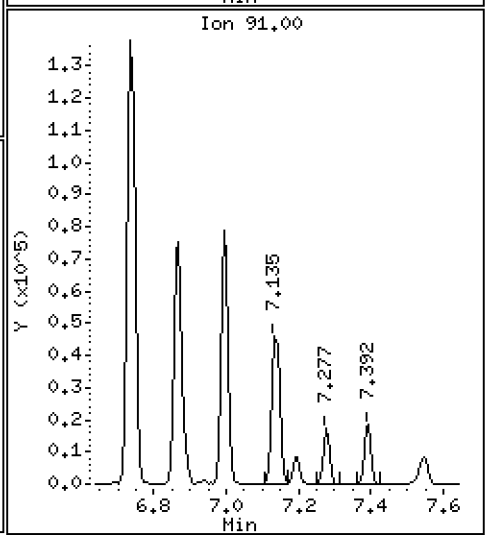












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 104

Date : 25-OCT-2016 00:08

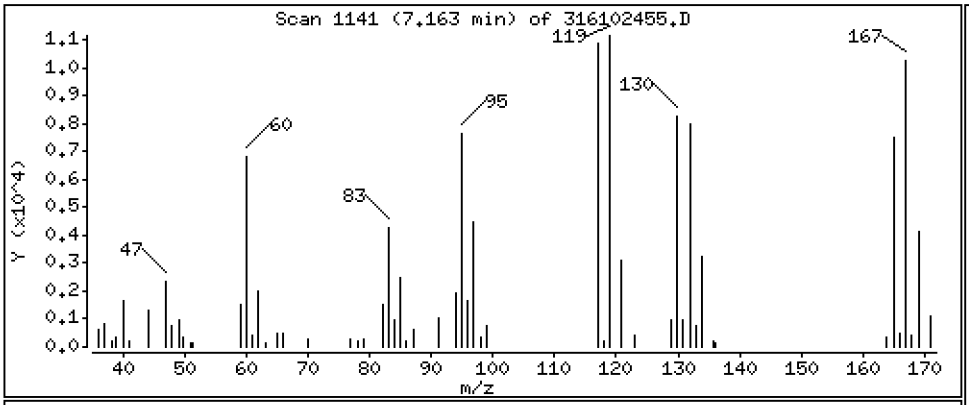
Client ID: Instrument: ms03.i

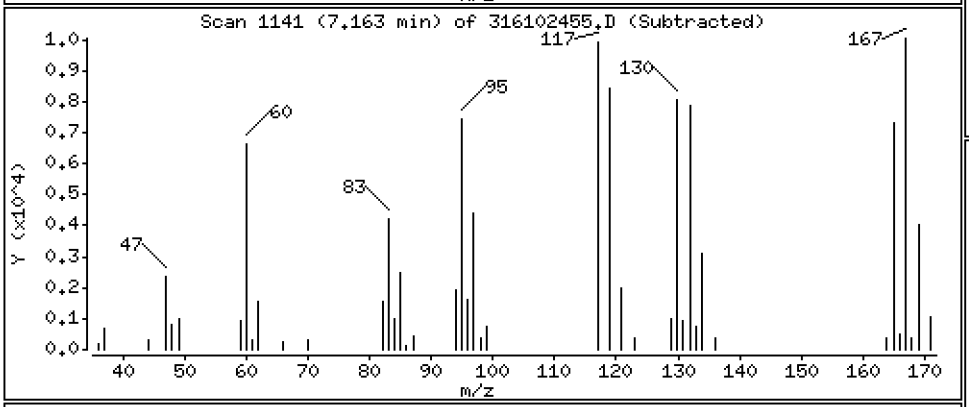
Sample Info: 1235;;1;1;2;;;

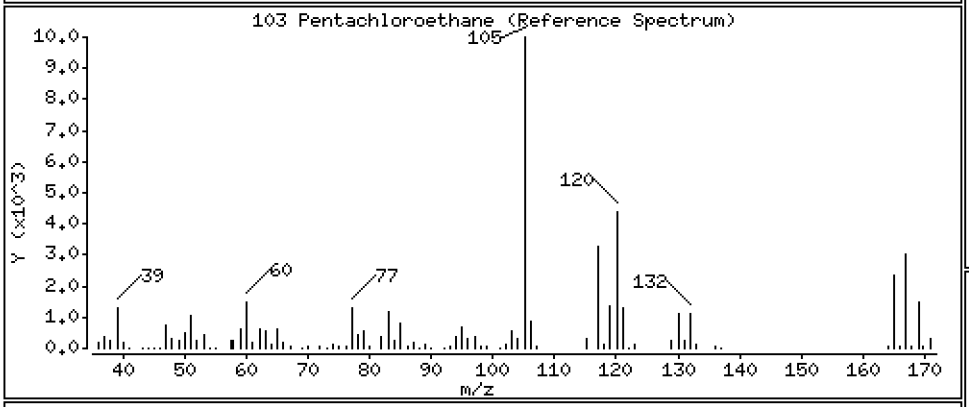
Purge Volume: 5.0 Operator: CJG

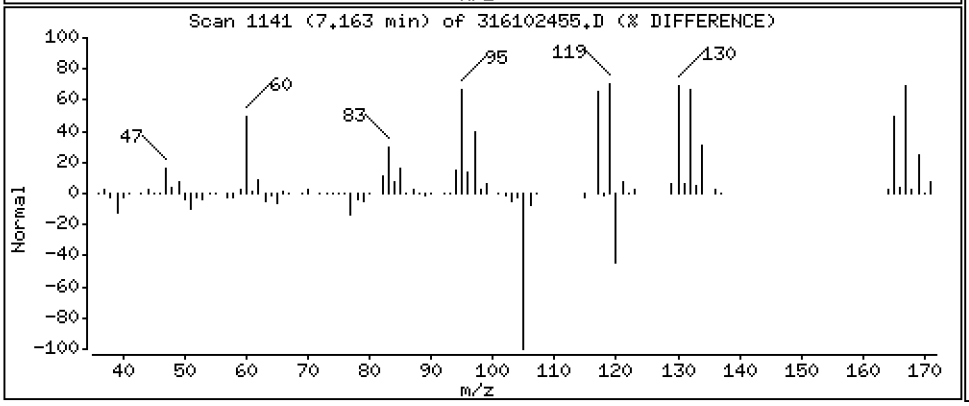
Column phase: DB-VRX Column diameter: 0.25

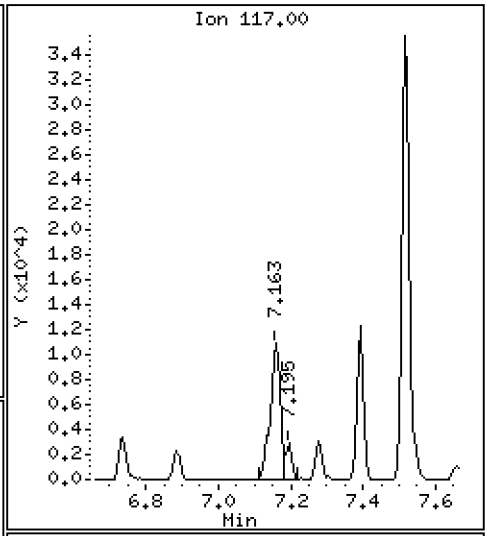
103 Pentachloroethane Concentration: 4.82343 ug/L

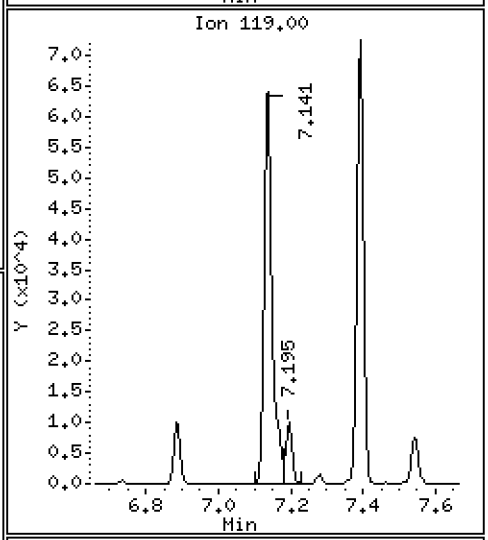


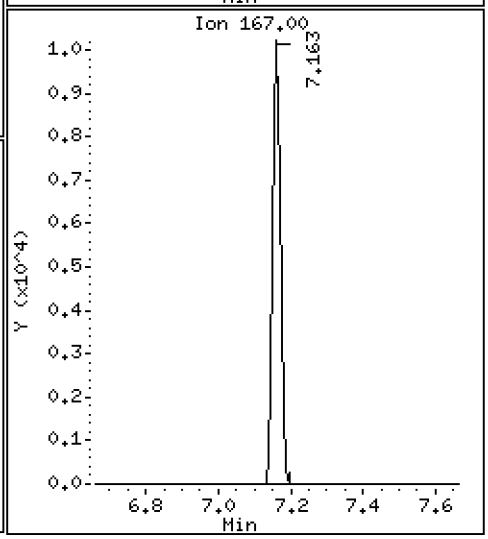












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 105

Date : 25-OCT-2016 00:08

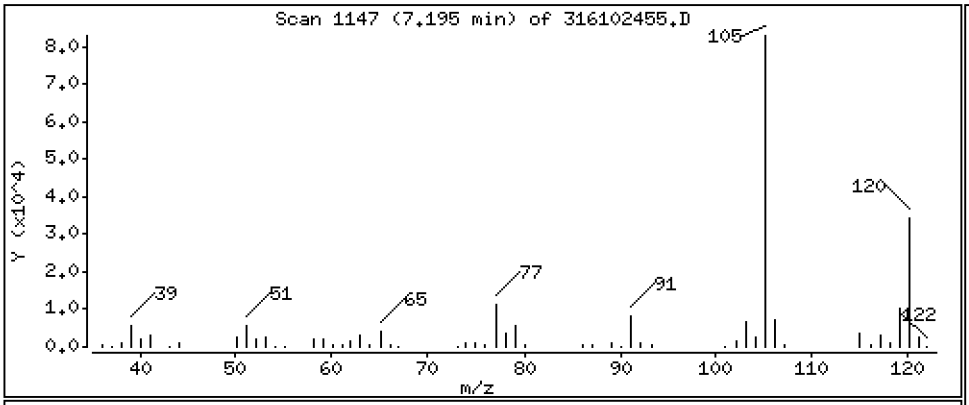
Client ID: Instrument: ms03.i

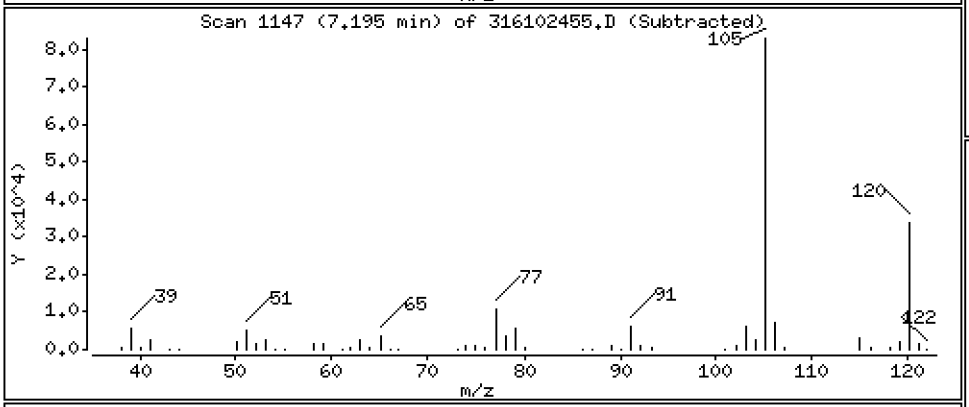
Sample Info: 1235;;1;1;2;;;

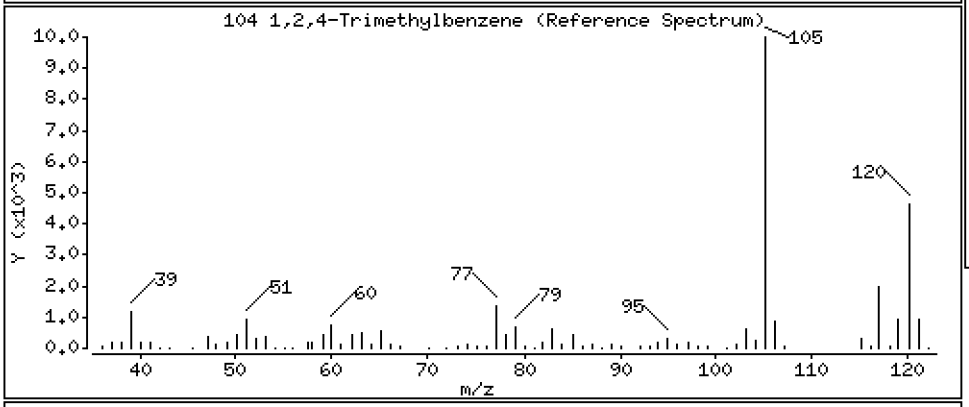
Purge Volume: 5.0 Operator: CJG

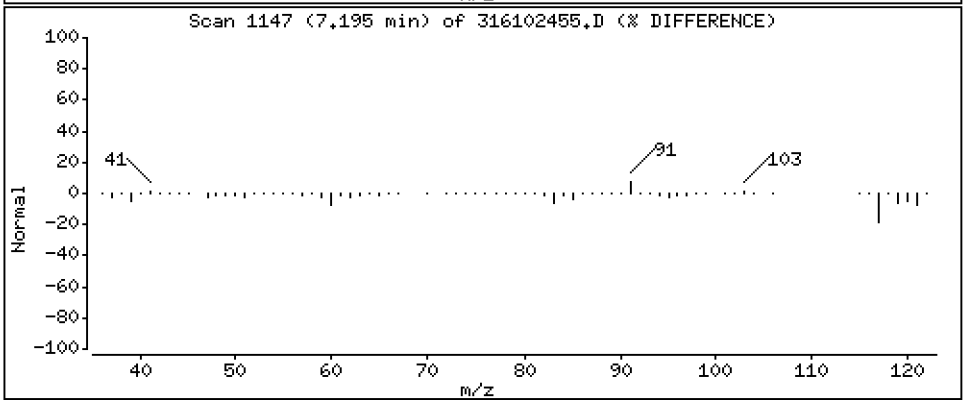
Column phase: DB-VRX Column diameter: 0.25

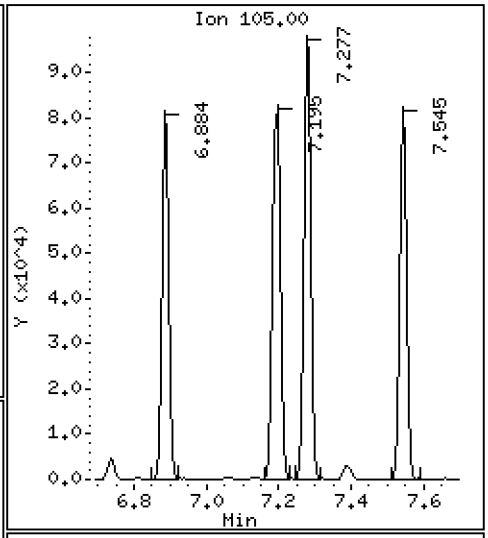
104 1,2,4-Trimethylbenzene Concentration: 5.11496 ug/L

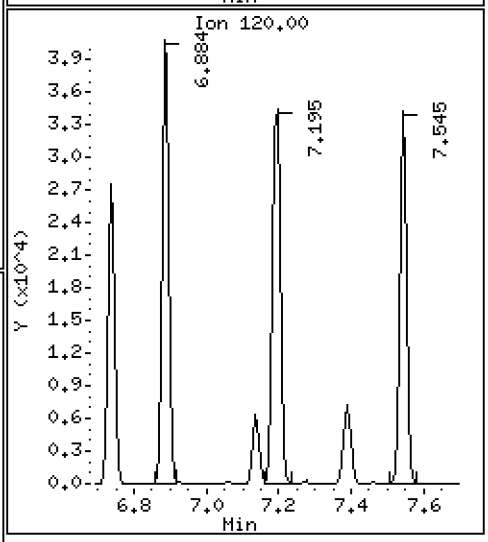












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 106

Date : 25-OCT-2016 00:08

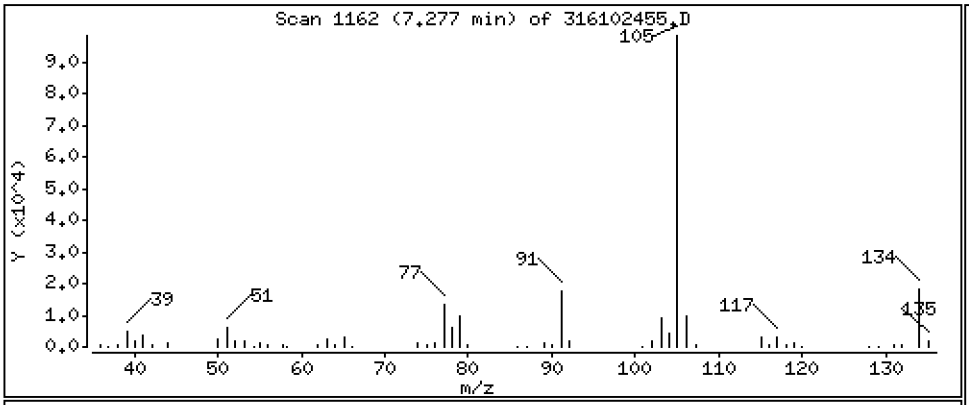
Client ID: Instrument: ms03.i

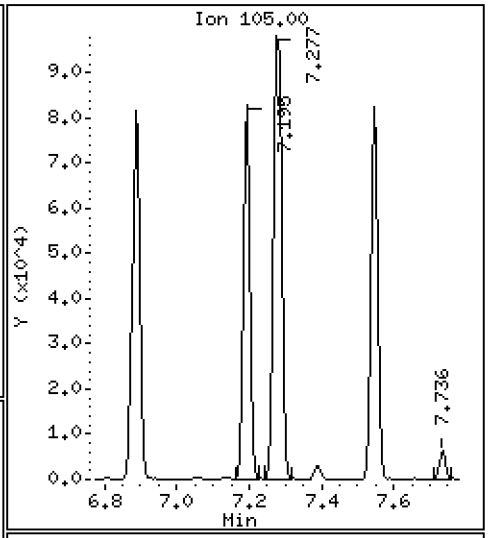
Sample Info: 1235;;1;1;2;;;

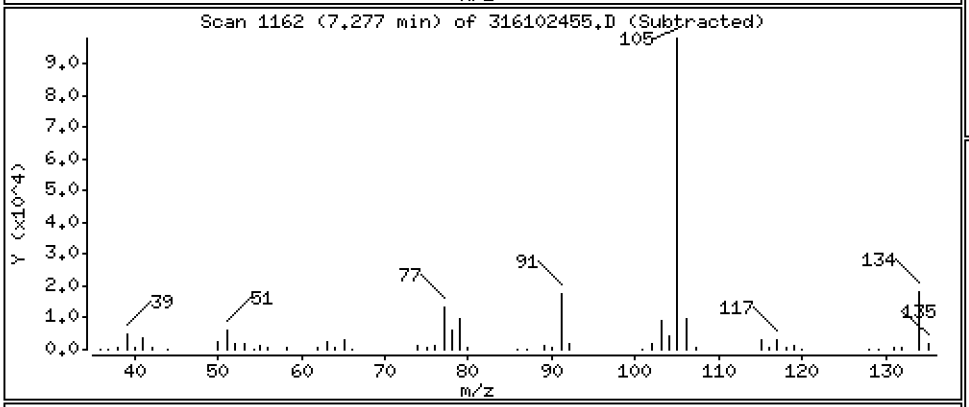
Purge Volume: 5.0 Operator: CJG

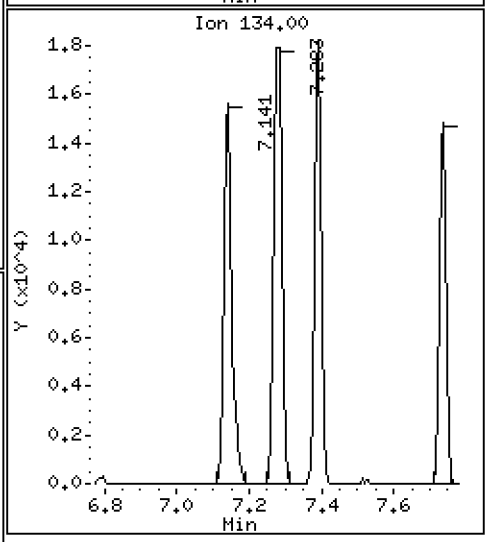
Column phase: DB-VRX Column diameter: 0.25

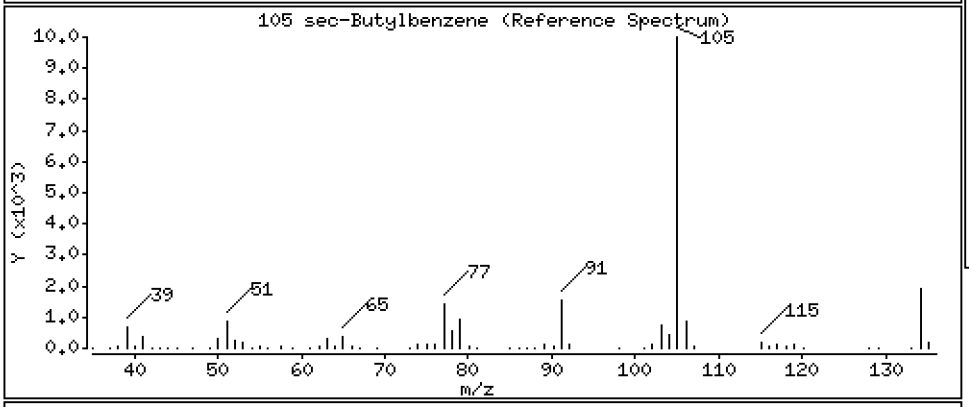
105 sec-Butylbenzene Concentration: 5.18551 ug/L

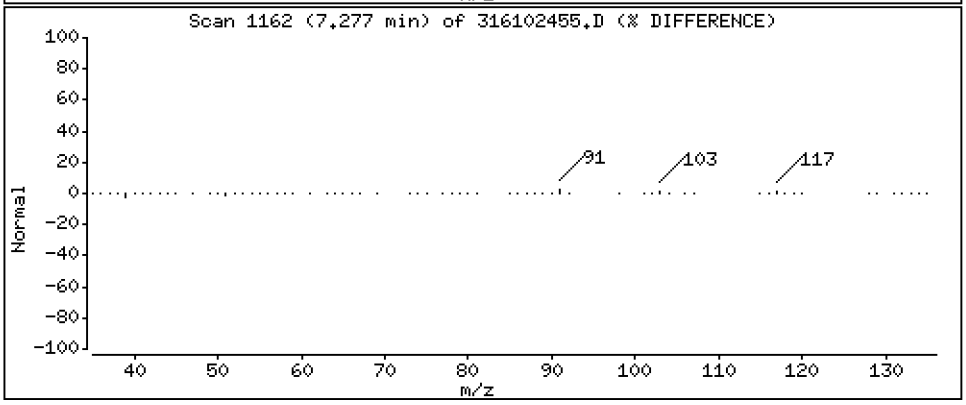












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 107

Date : 25-OCT-2016 00:08

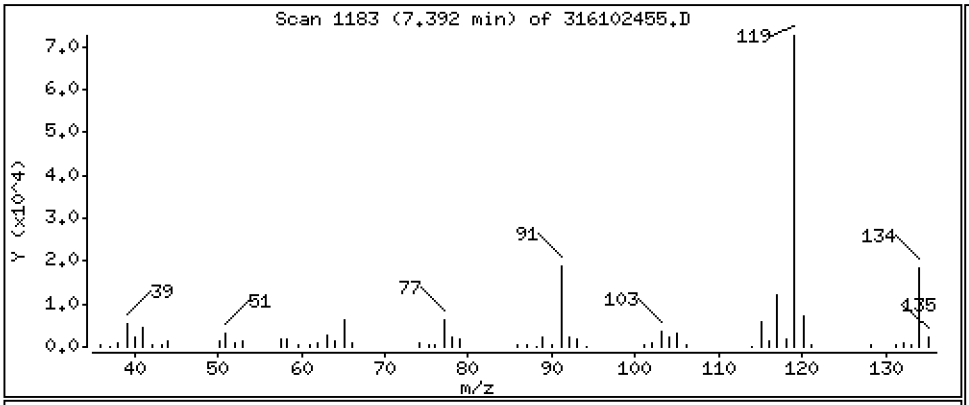
Client ID: Instrument: ms03.i

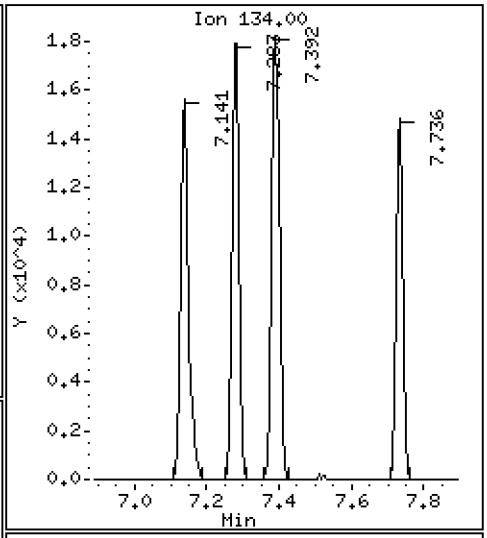
Sample Info: 1235;;1;1;2;;;

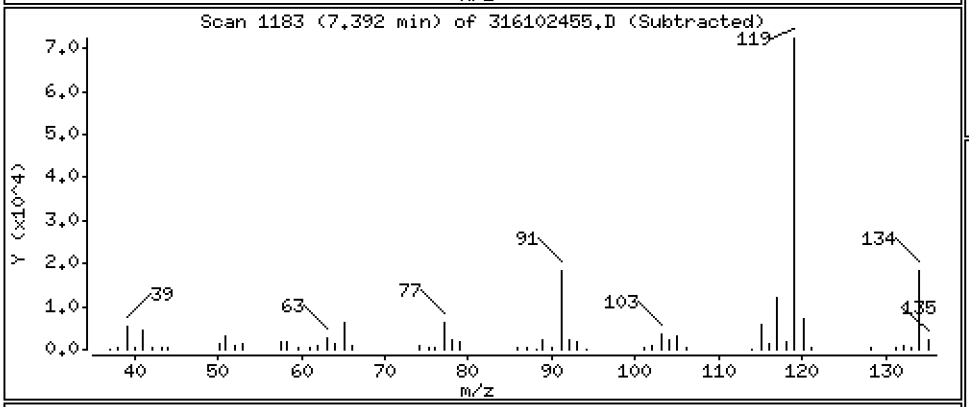
Purge Volume: 5.0 Operator: CJG

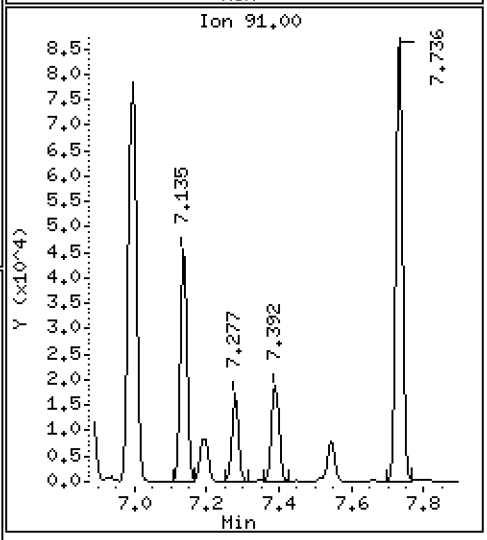
Column phase: DB-VRX Column diameter: 0.25

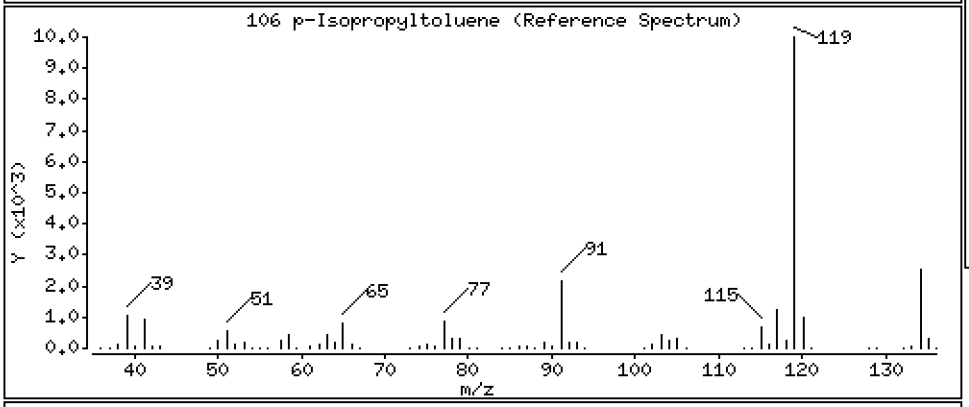
106 p-Isopropyltoluene Concentration: 4.77453 ug/L

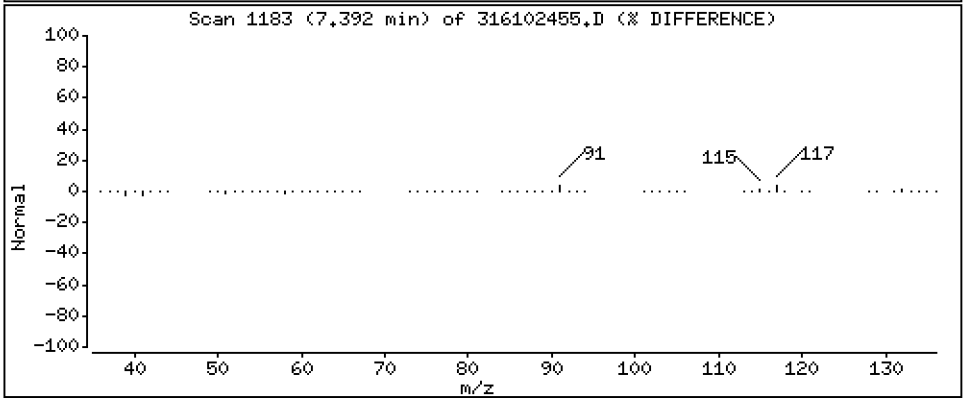












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 108

Date : 25-OCT-2016 00:08

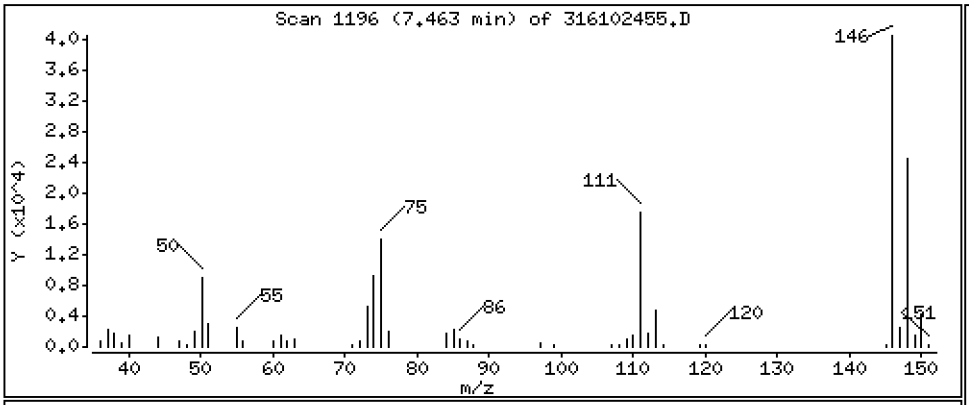
Client ID: Instrument: ms03.i

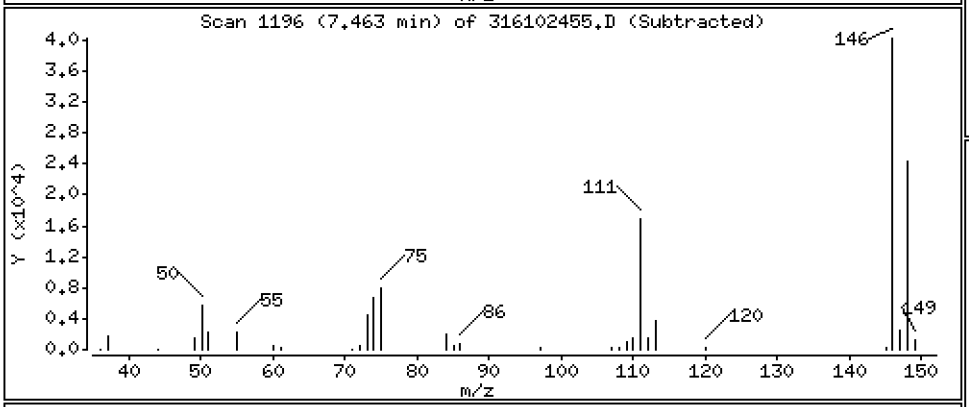
Sample Info: 1235;;1;1;2;;;

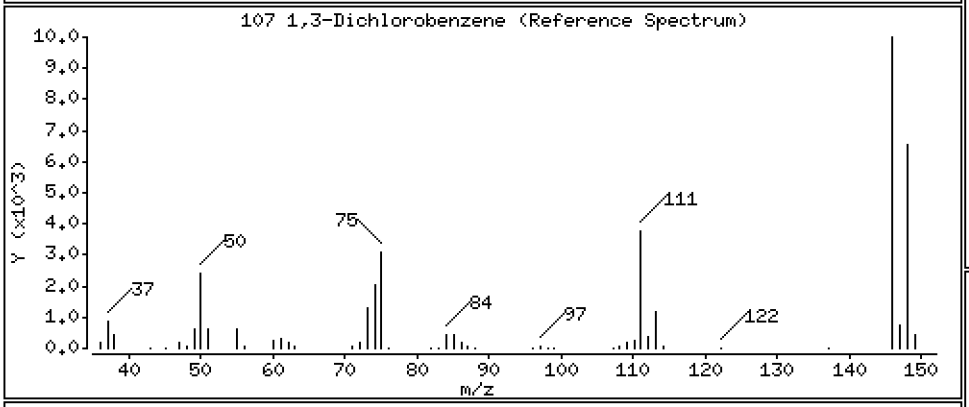
Purge Volume: 5.0 Operator: CJG

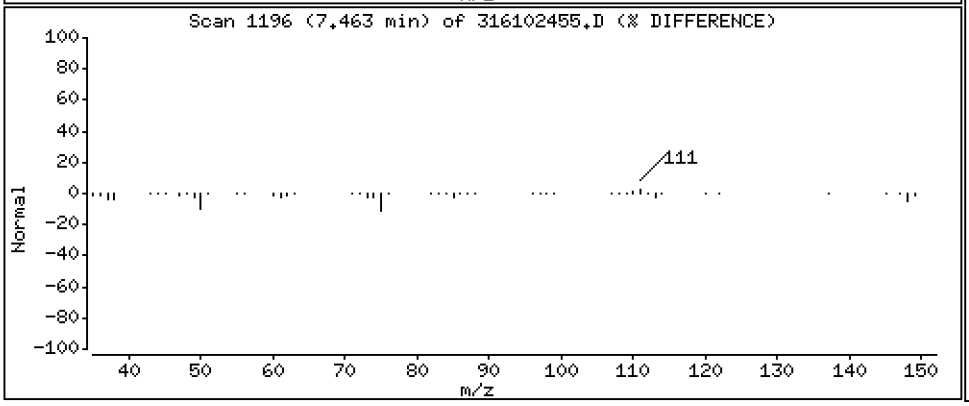
Column phase: DB-VRX Column diameter: 0.25

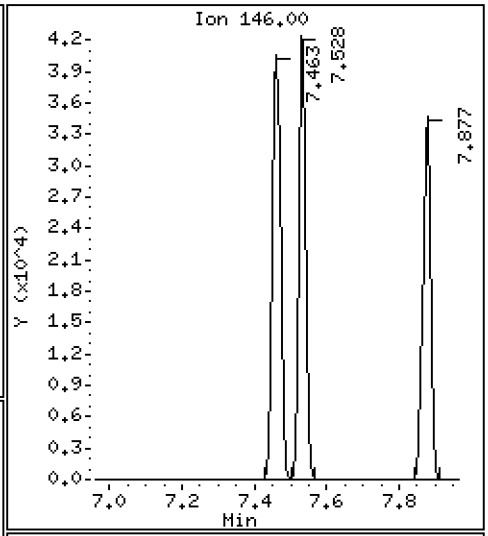
107 1,3-Dichlorobenzene Concentration: 5.73183 ug/L

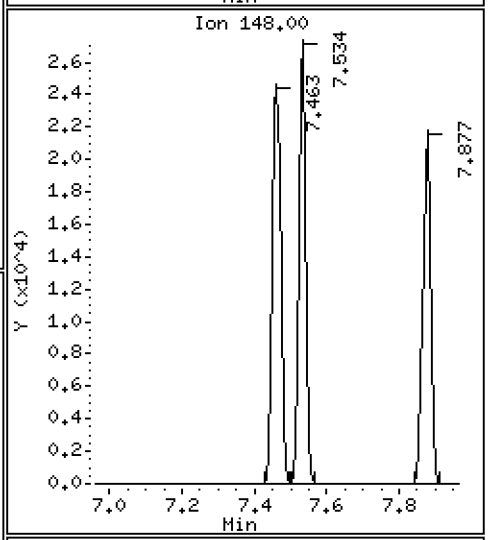


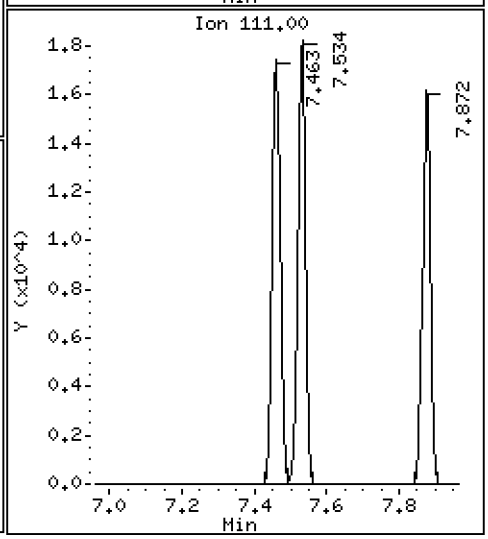












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 109

Date : 25-OCT-2016 00:08

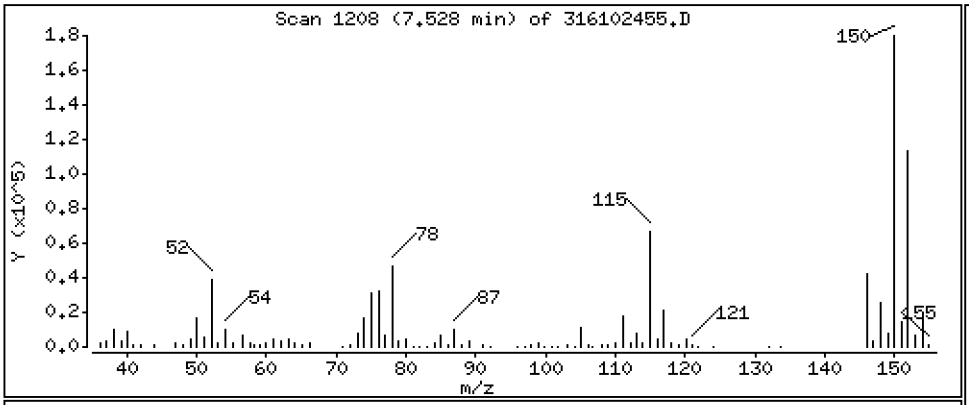
Client ID: Instrument: ms03.i

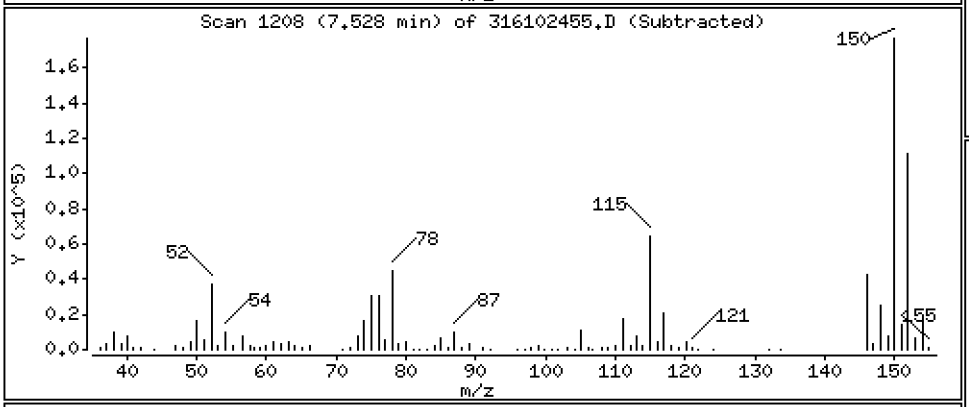
Sample Info: 1235;;1;1;2;;;

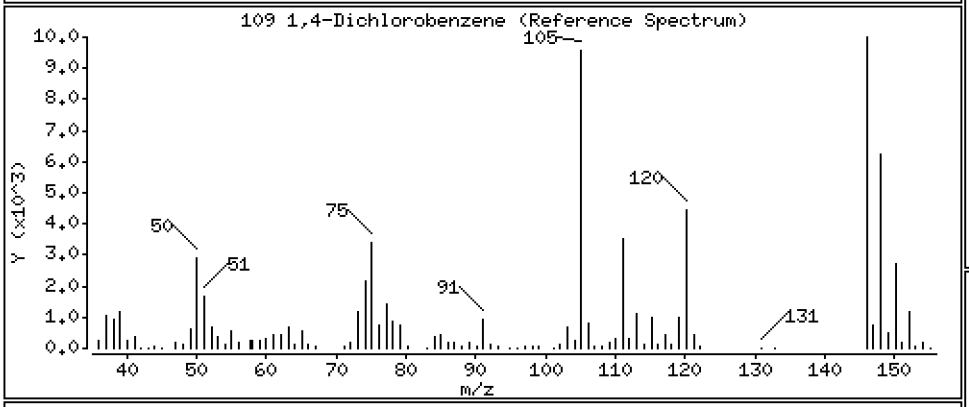
Purge Volume: 5.0 Operator: CJG

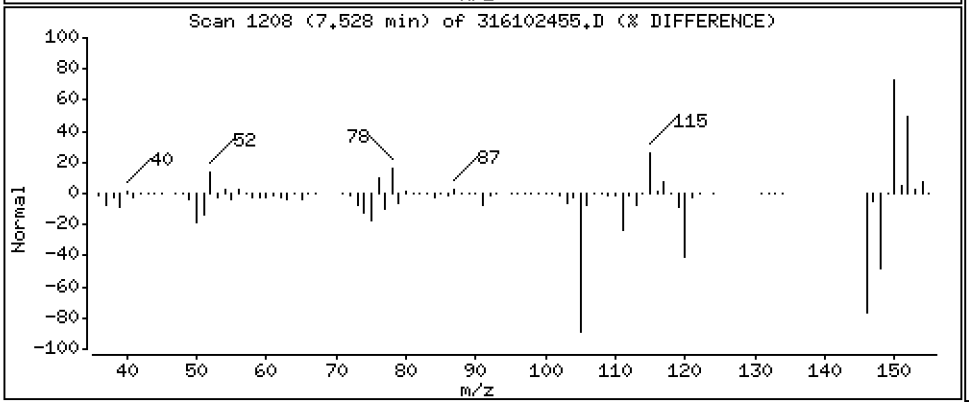
Column phase: DB-VRX Column diameter: 0.25

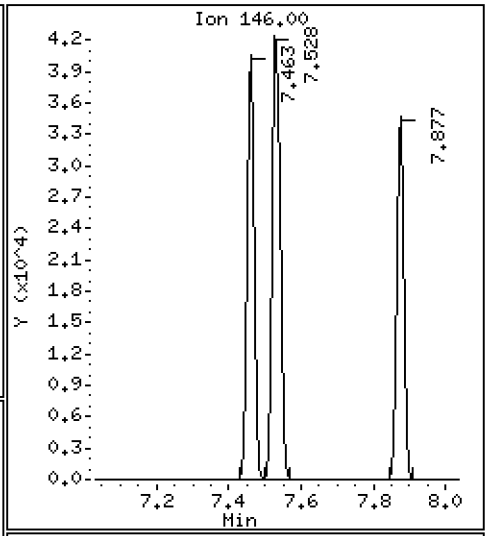
109 1,4-Dichlorobenzene Concentration: 5.77243 ug/L

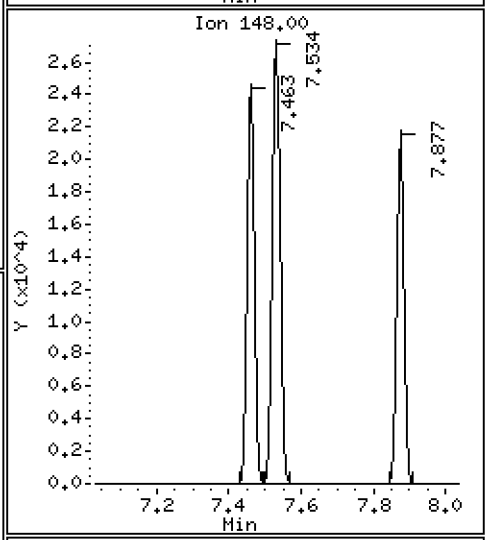


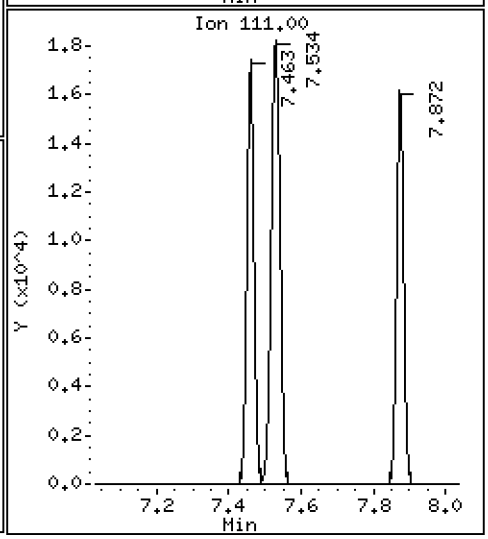












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 110

Date : 25-OCT-2016 00:08

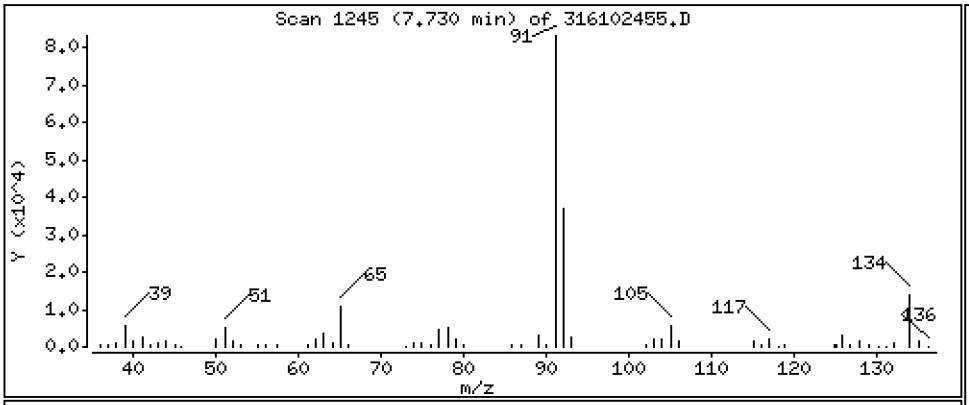
Client ID: Instrument: ms03.i

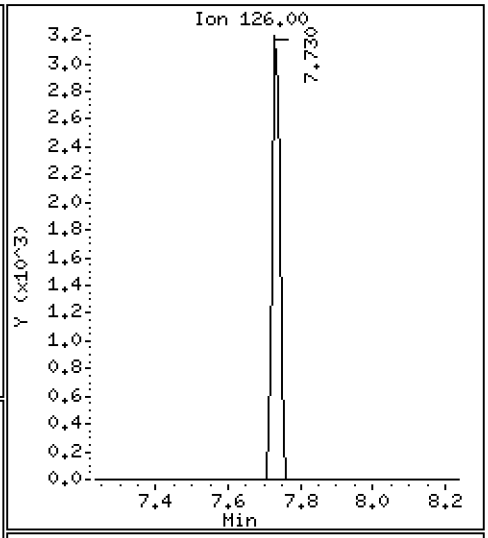
Sample Info: 1235;;1;1;2;;;

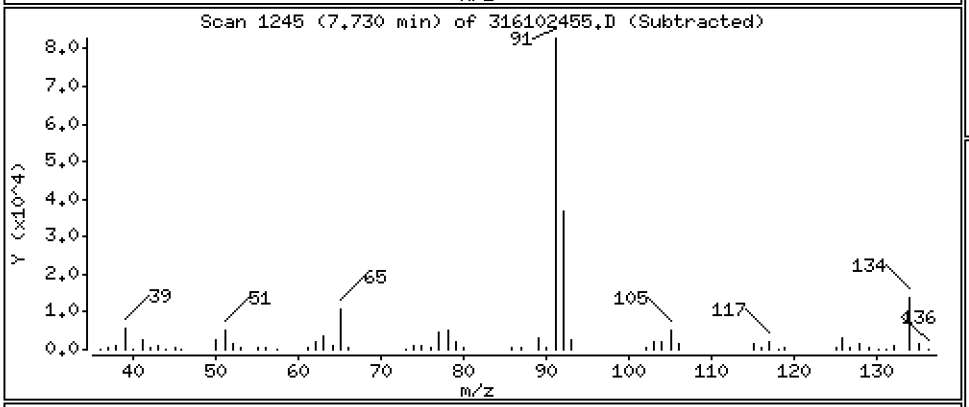
Purge Volume: 5.0 Operator: CJG

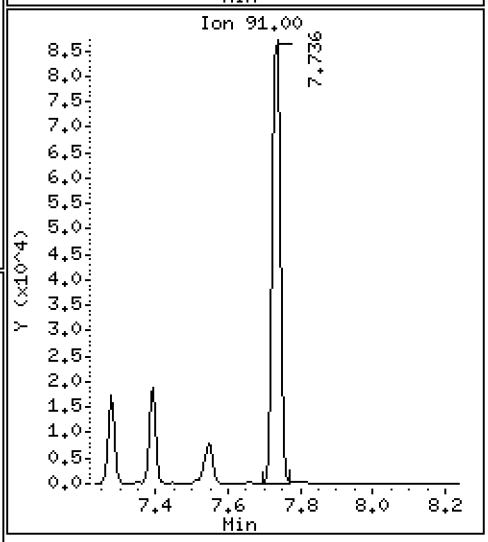
Column phase: DB-VRX Column diameter: 0.25

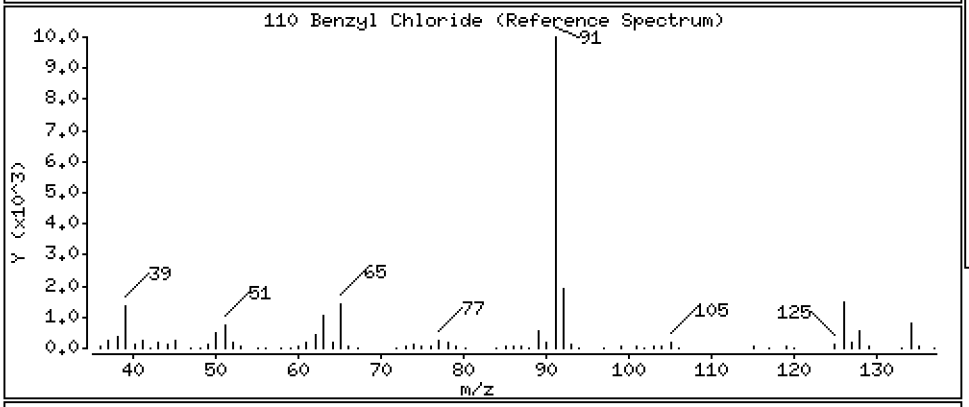
110 Benzyl Chloride Concentration: 3.26328 ug/L

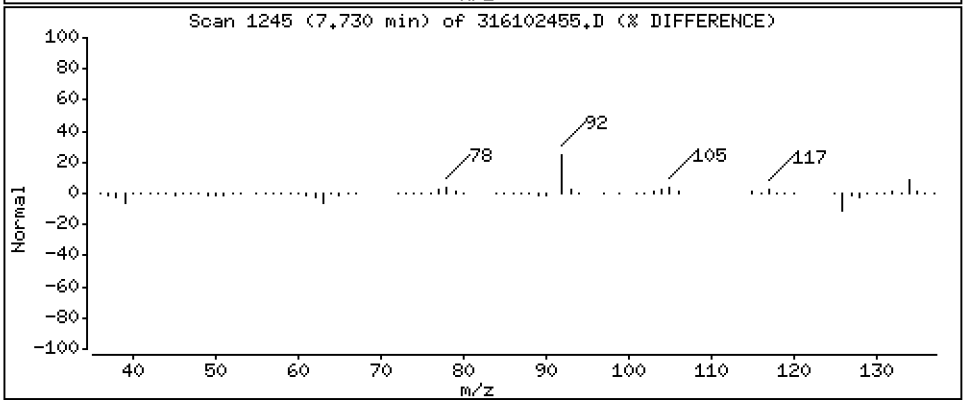












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 111

Date : 25-OCT-2016 00:08

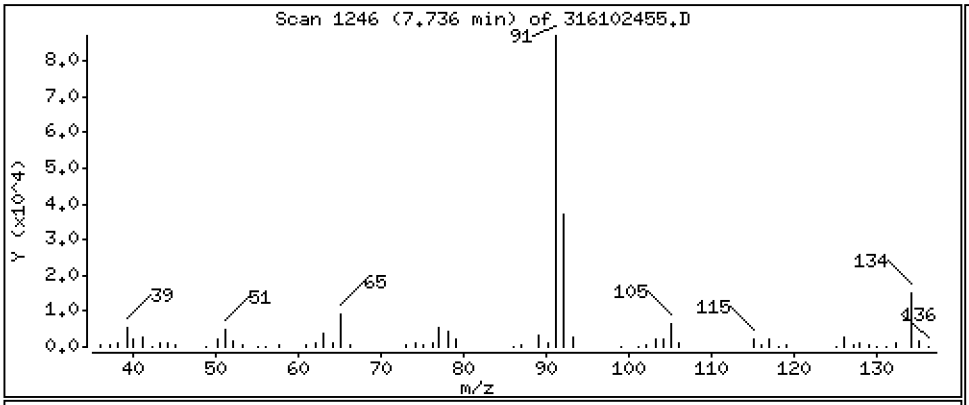
Client ID: Instrument: ms03.i

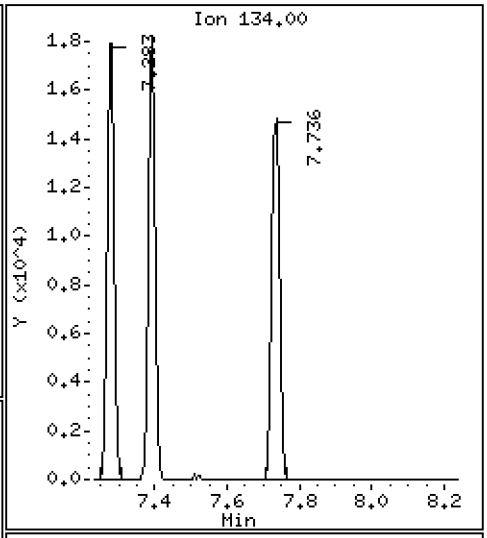
Sample Info: 1235;;1;1;2;;;

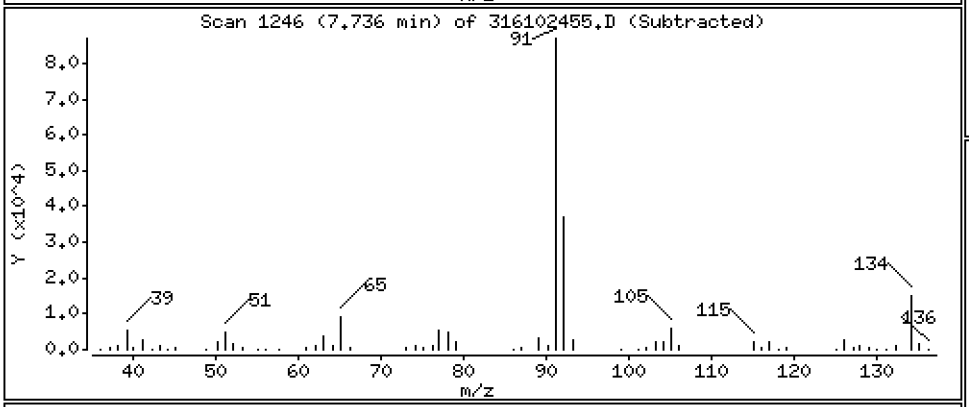
Purge Volume: 5.0 Operator: CJG

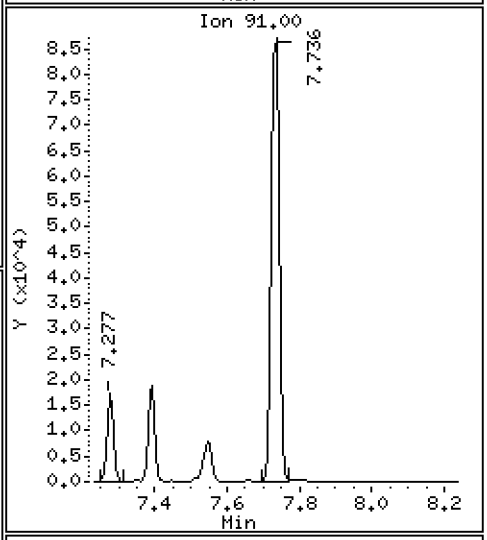
Column phase: DB-VRX Column diameter: 0.25

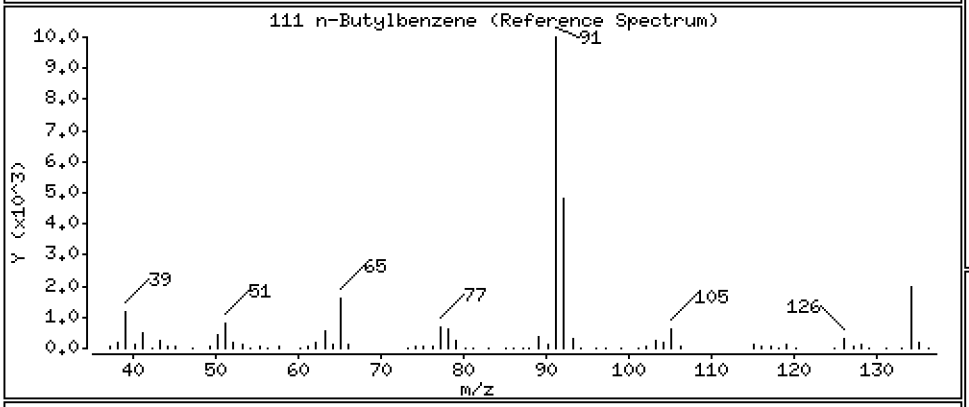
111 n-Butylbenzene Concentration: 4.59482 ug/L

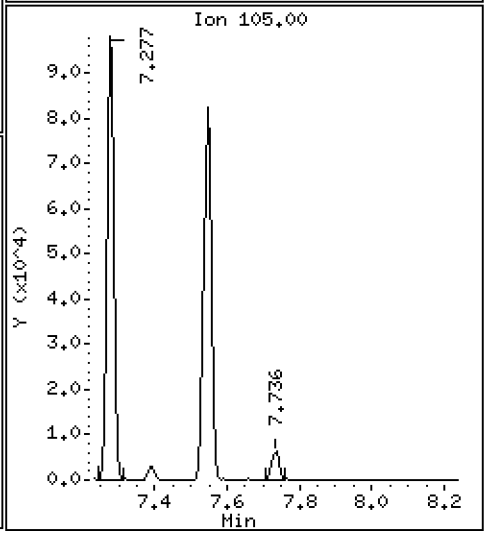


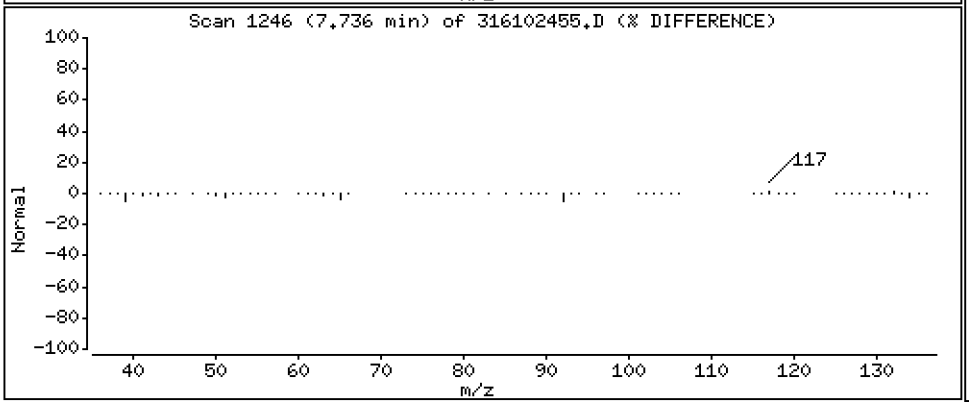












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 112

Date : 25-OCT-2016 00:08

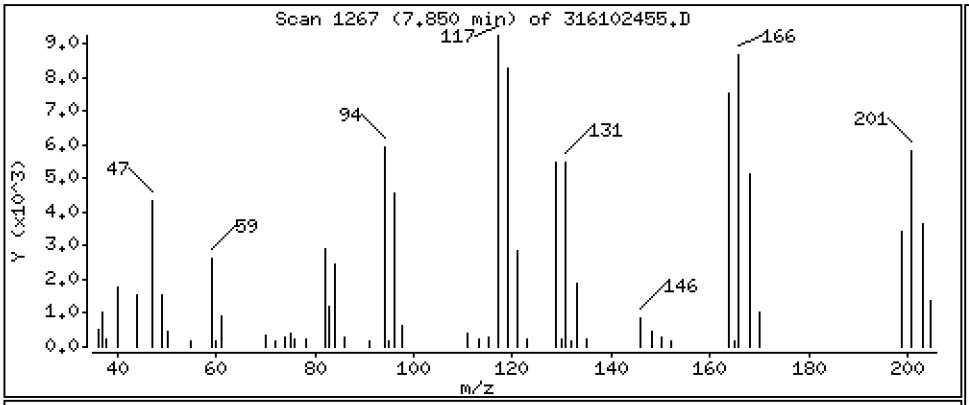
Client ID: Instrument: ms03.i

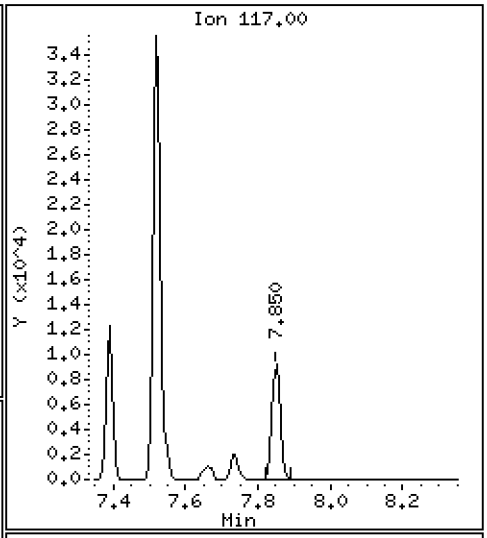
Sample Info: 1235;;1;1;2;;;

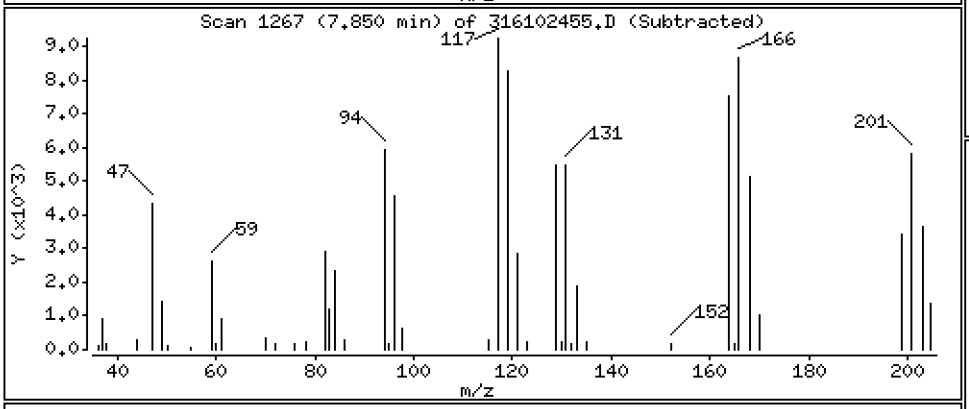
Purge Volume: 5.0 Operator: CJG

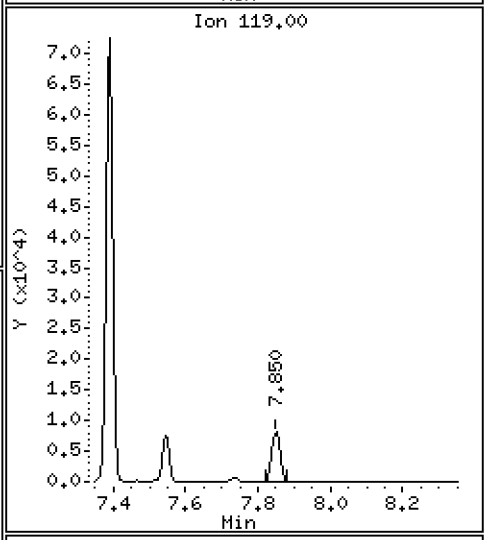
Column phase: DB-VRX Column diameter: 0.25

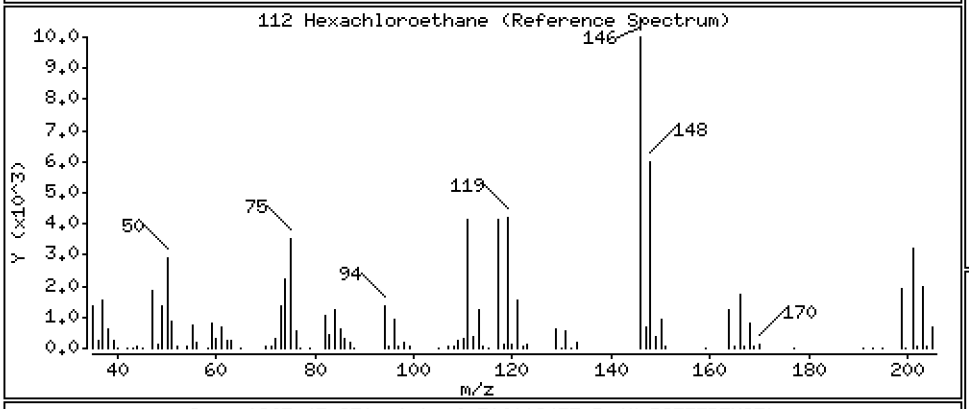
112 Hexachloroethane Concentration: 4.50141 ug/L

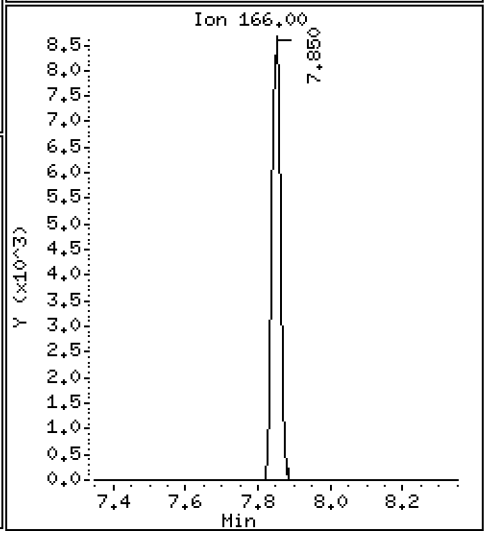


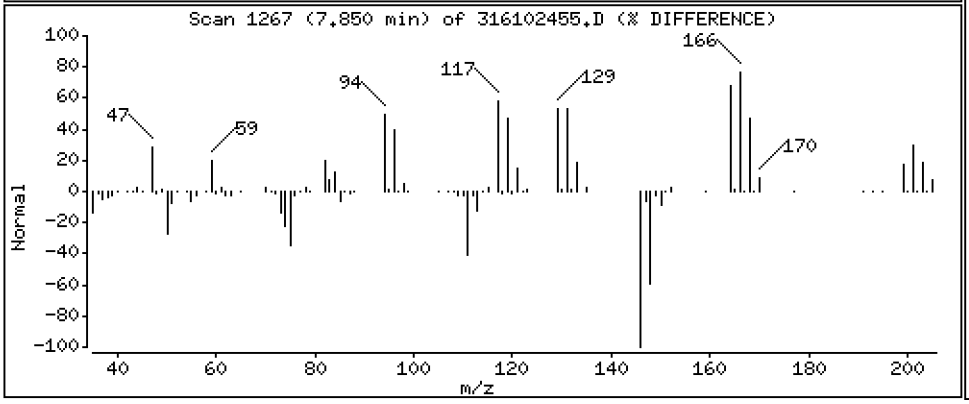












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 113

Date : 25-OCT-2016 00:08

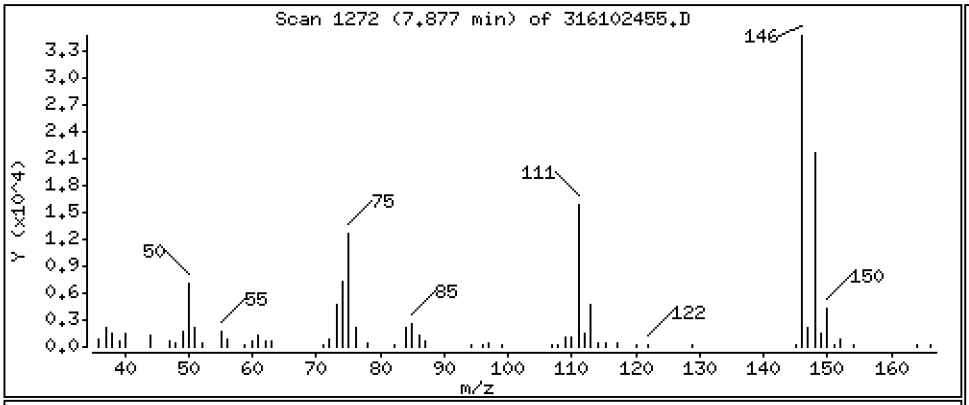
Client ID: Instrument: ms03.i

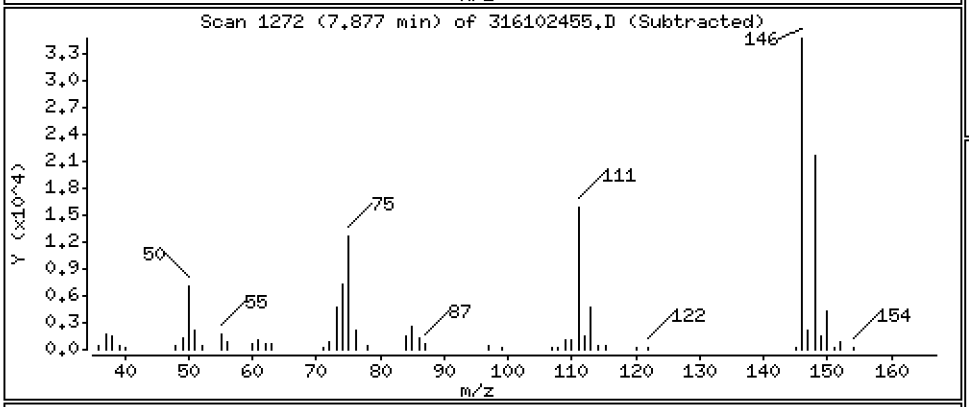
Sample Info: 1235;;1;1;2;;;

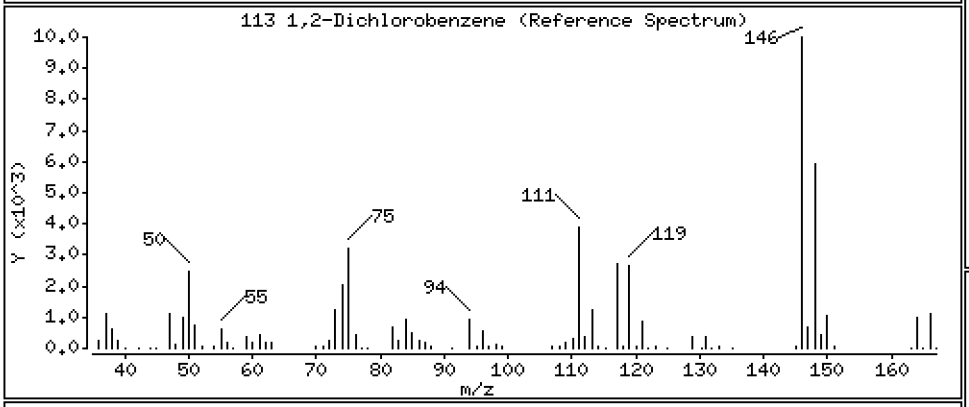
Purge Volume: 5.0 Operator: CJG

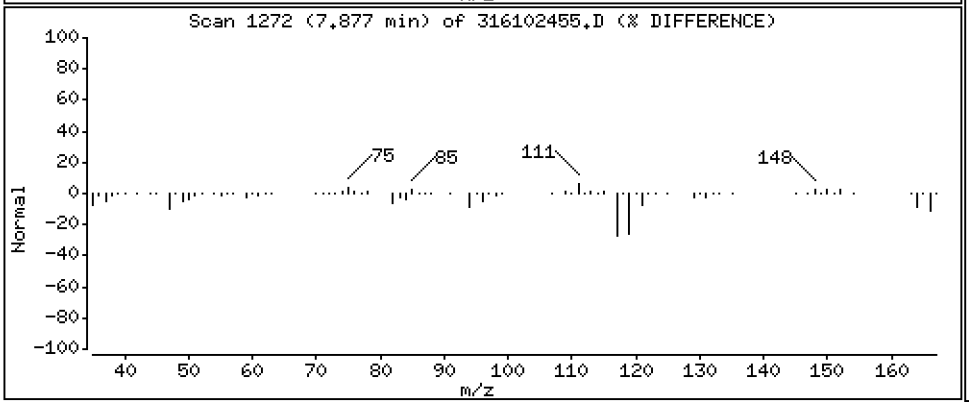
Column phase: DB-VRX Column diameter: 0.25

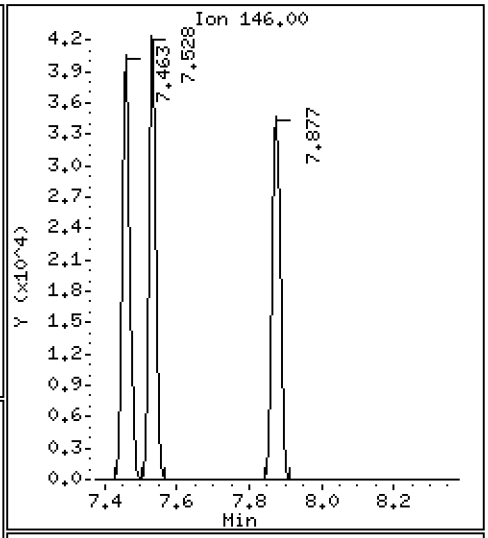
113 1,2-Dichlorobenzene Concentration: 5.44857 ug/L

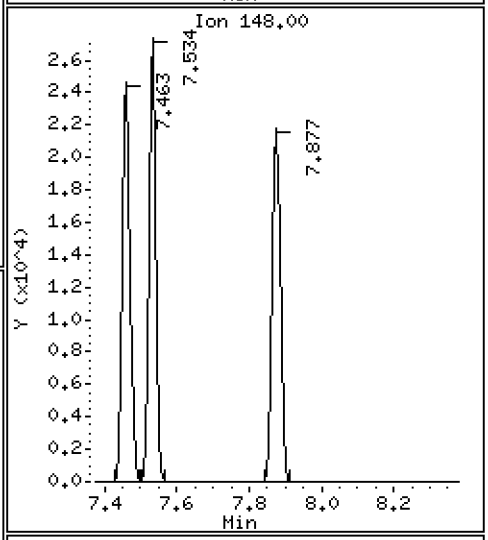


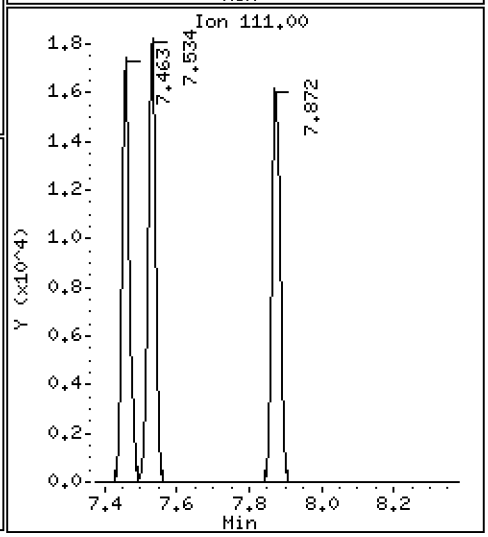












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 114

Date : 25-OCT-2016 00:08

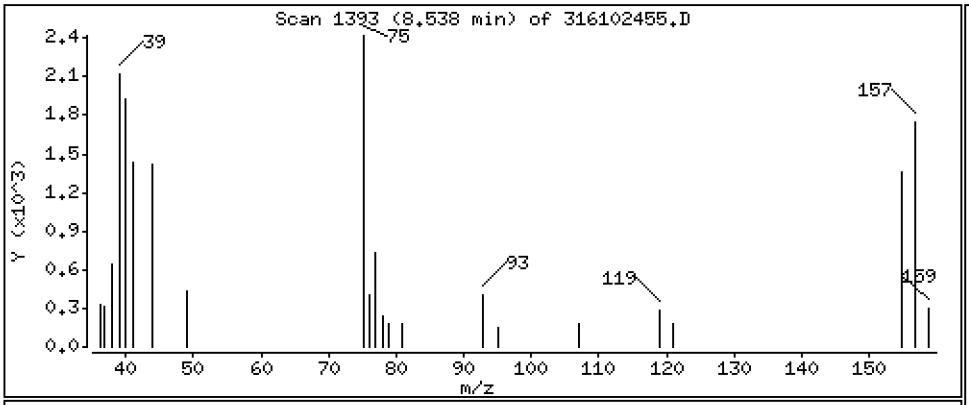
Client ID: Instrument: ms03.i

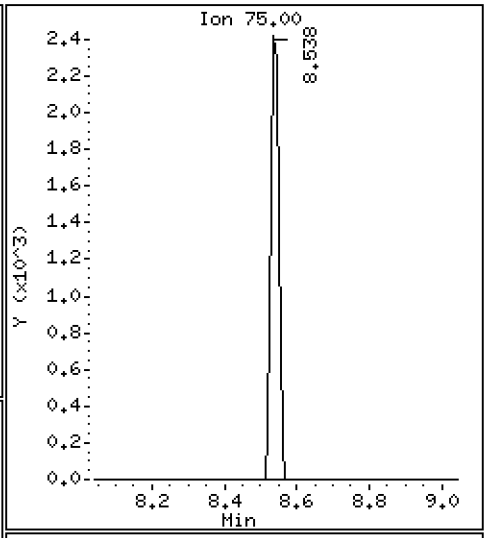
Sample Info: 1235;;1;1;2;;;

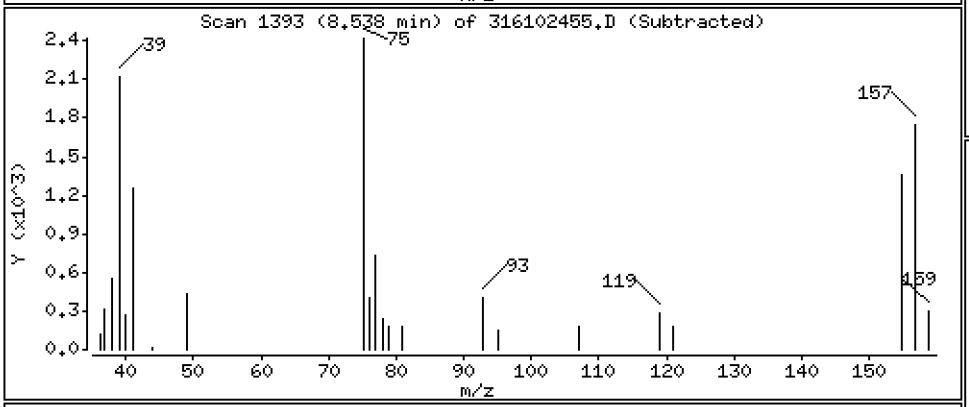
Purge Volume: 5.0 Operator: CJG

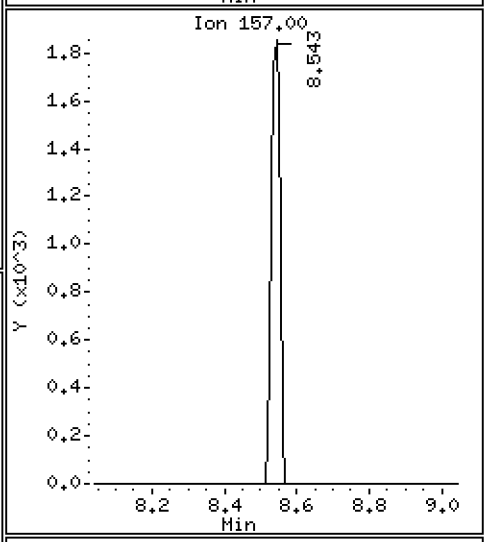
Column phase: DB-VRX Column diameter: 0.25

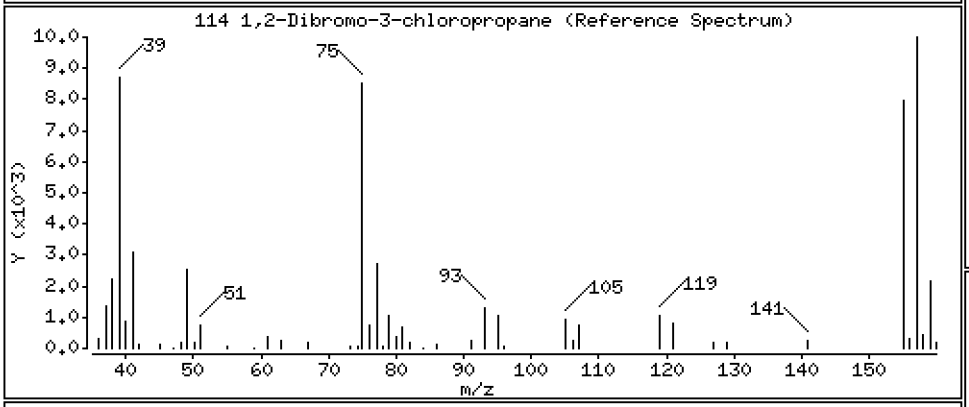
114 1,2-Dibromo-3-chloropropane Concentration: 4.52665 ug/L

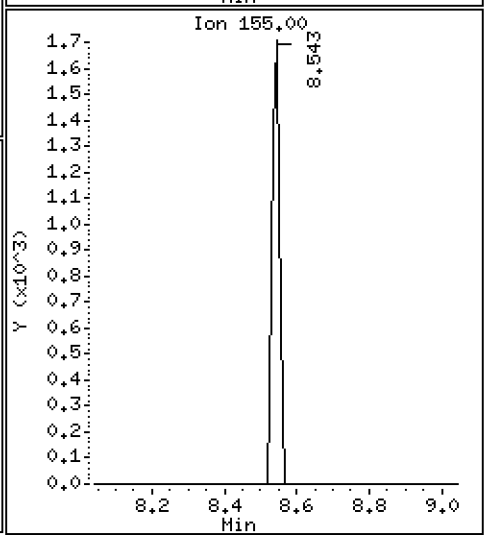


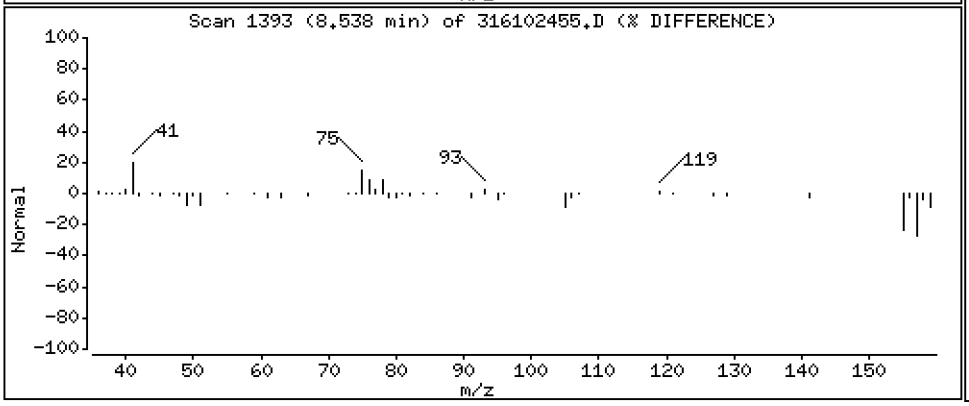












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 115

Date : 25-OCT-2016 00:08

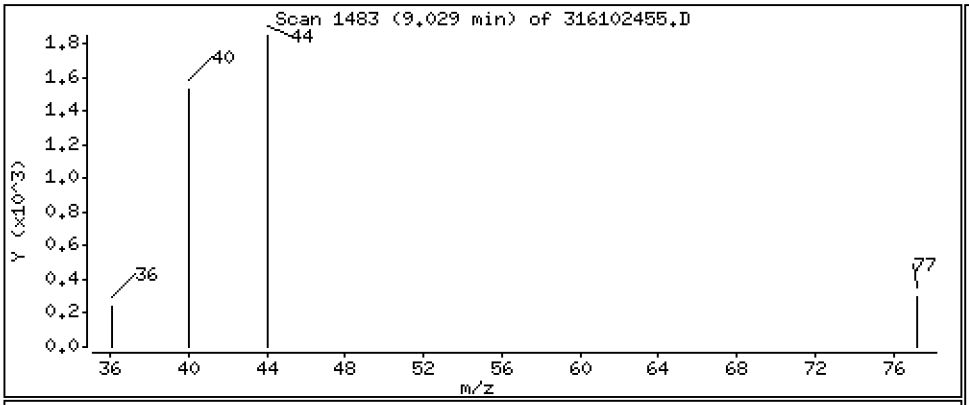
Client ID: Instrument: ms03.i

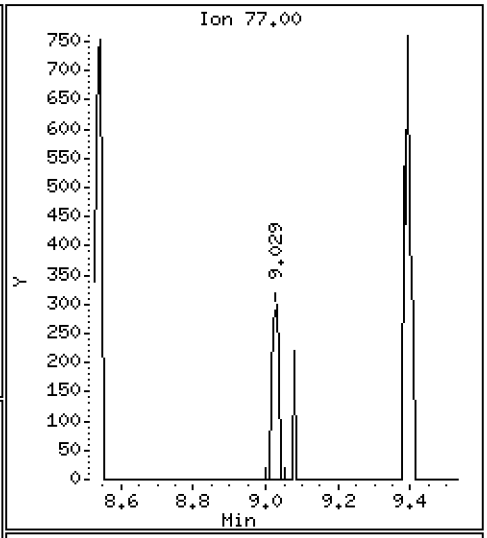
Sample Info: 1235;;1;1;2;;;

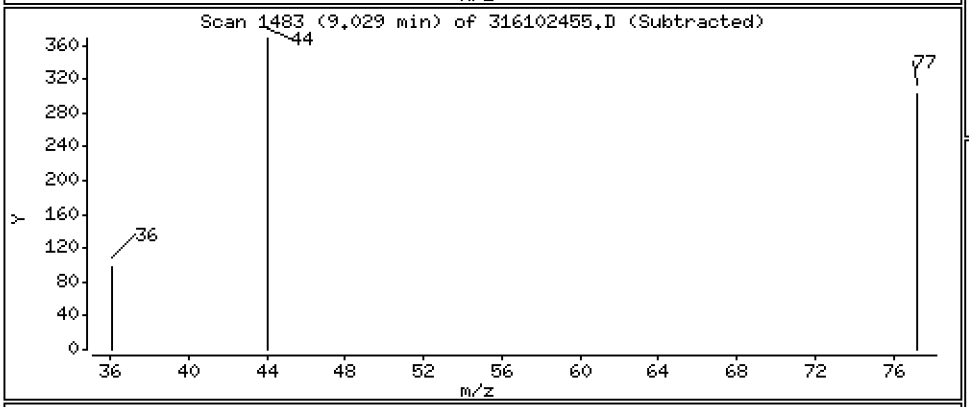
Purge Volume: 5.0 Operator: CJG

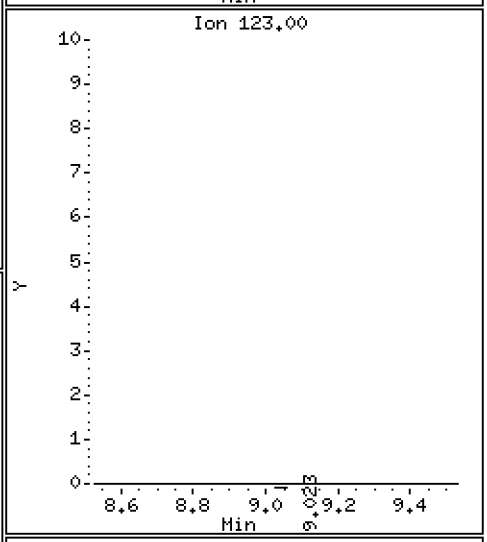
Column phase: DB-VRX Column diameter: 0.25

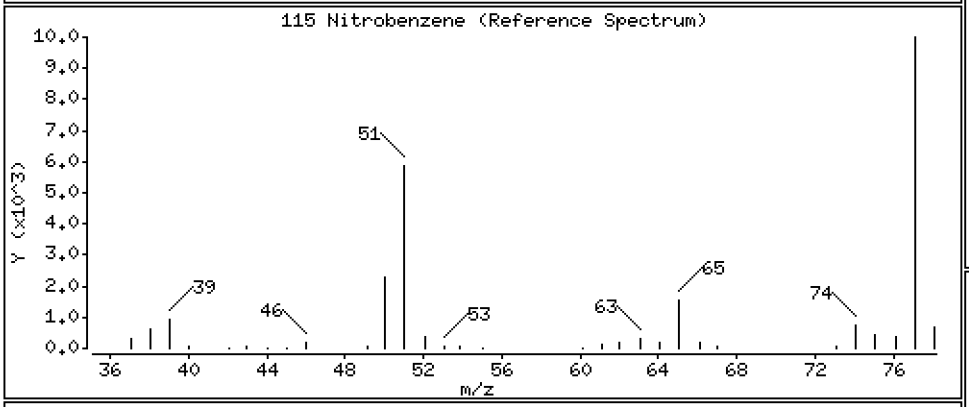
115 Nitrobenzene Concentration: 102.889 ug/L

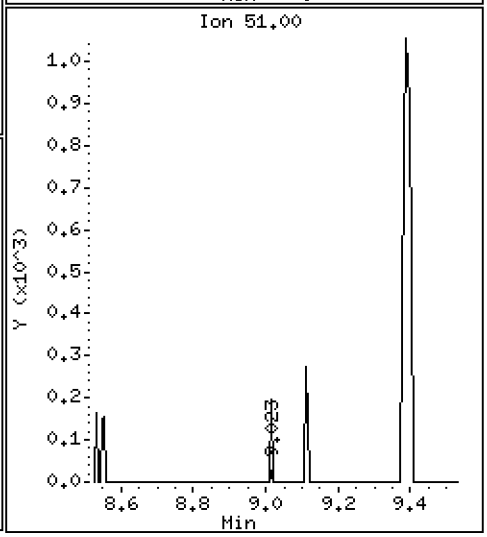


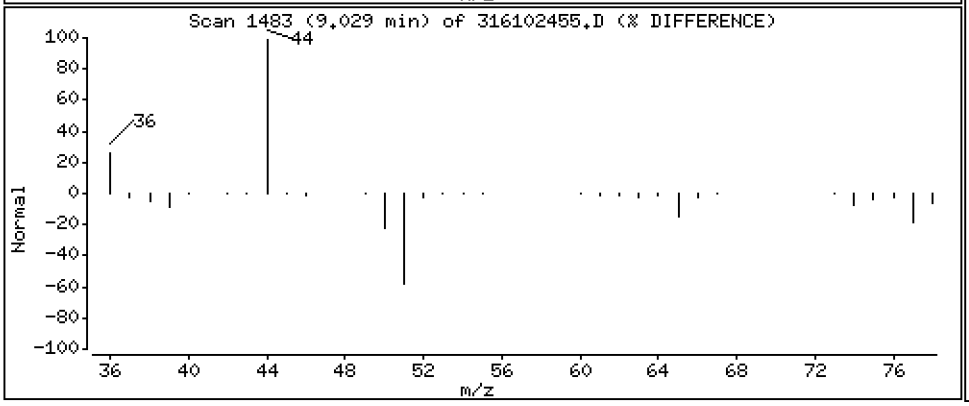












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 116

Date : 25-OCT-2016 00:08

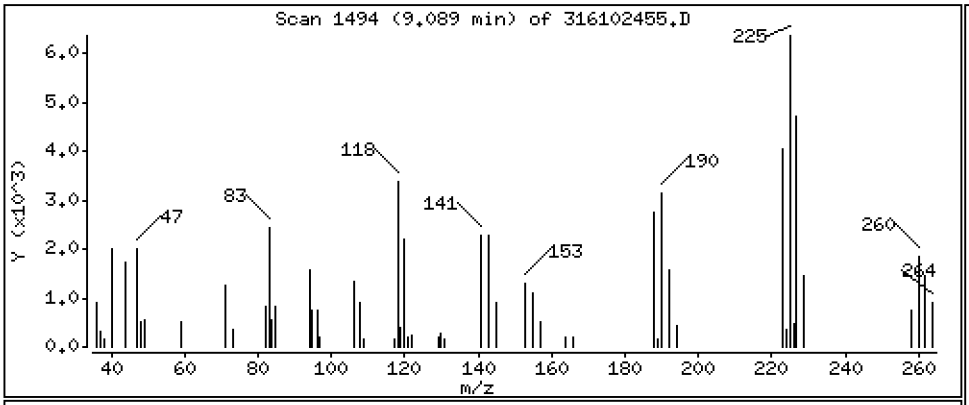
Client ID: Instrument: ms03.i

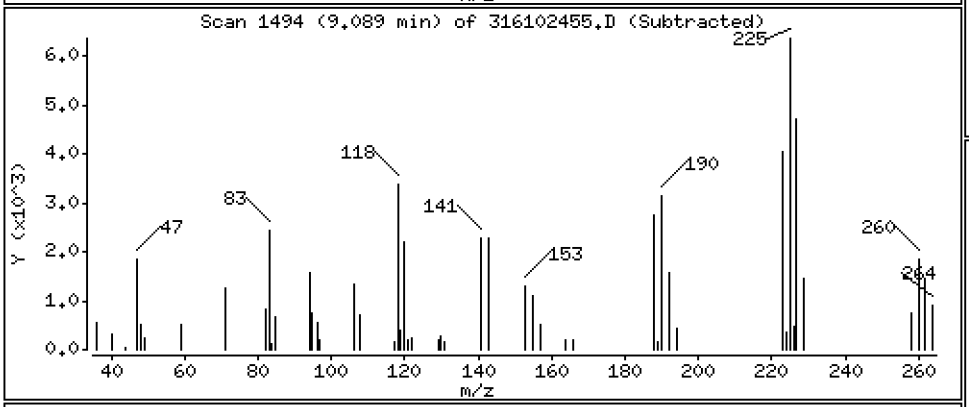
Sample Info: 1235;;1;1;2;;;

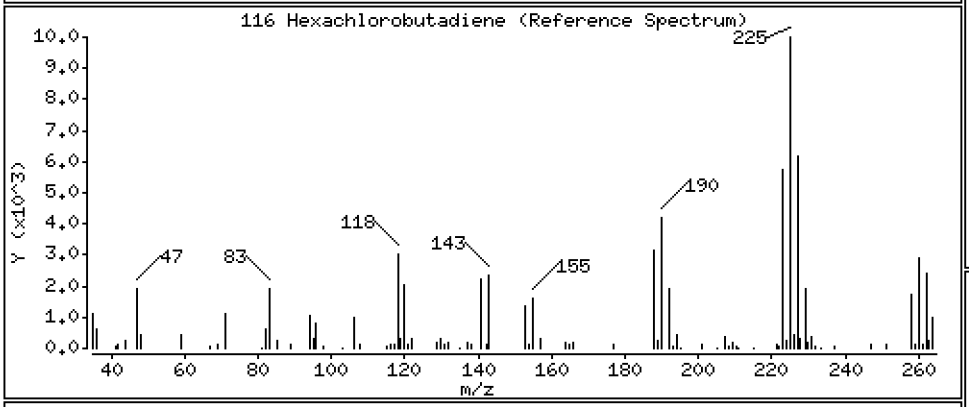
Purge Volume: 5.0 Operator: CJG

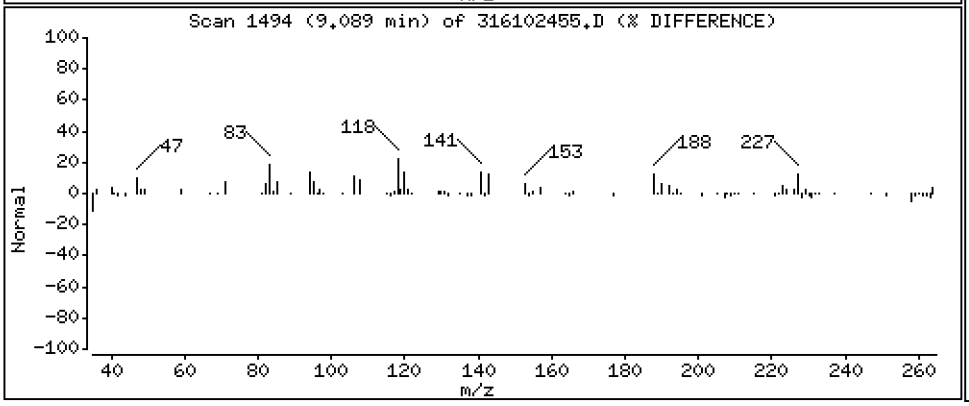
Column phase: DB-VRX Column diameter: 0.25

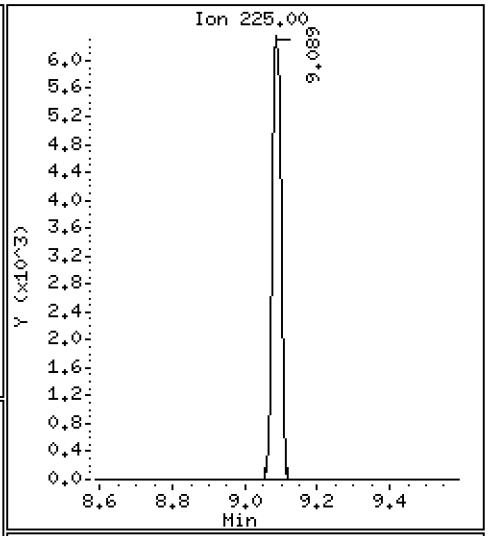
116 Hexachlorobutadiene Concentration: 5.58003 ug/L

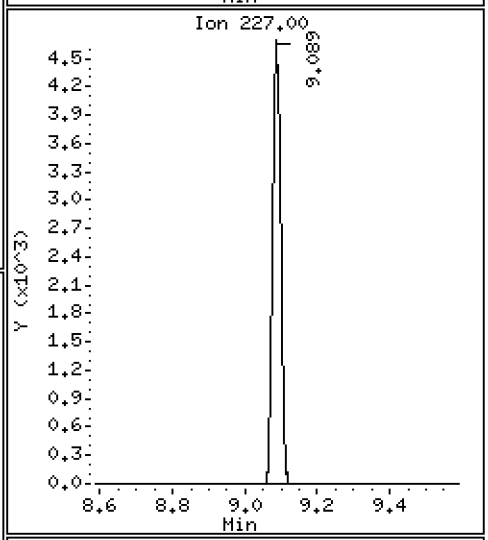


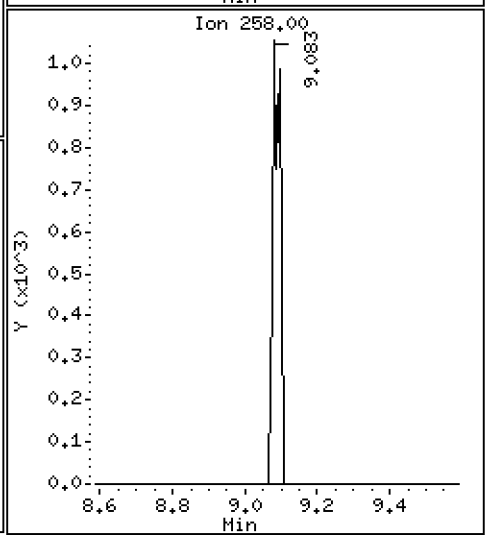












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 117

Date : 25-OCT-2016 00:08

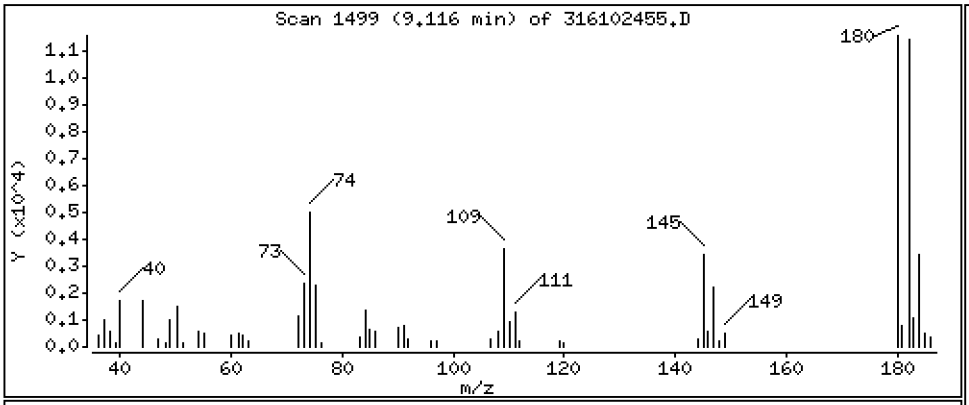
Client ID: Instrument: ms03.i

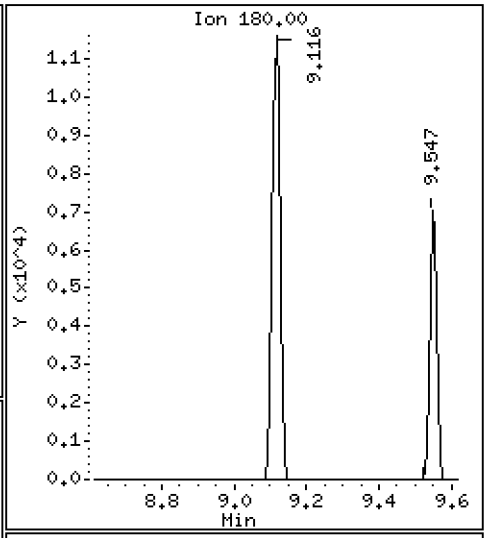
Sample Info: 1235;;1;1;2;;;

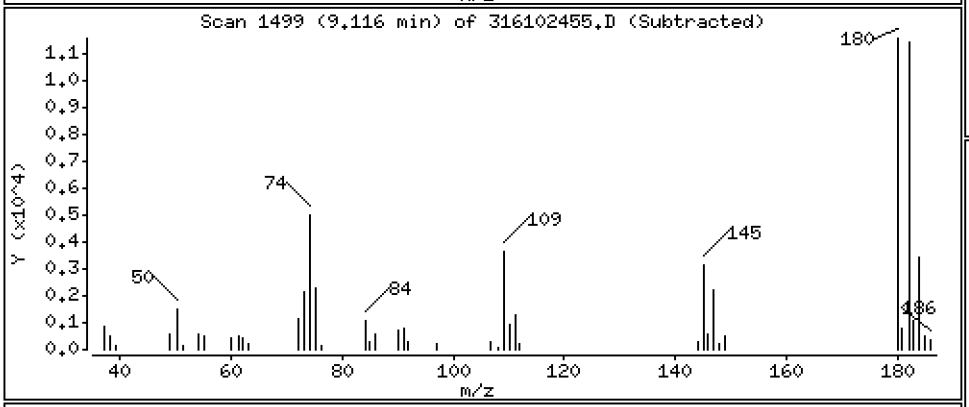
Purge Volume: 5.0 Operator: CJG

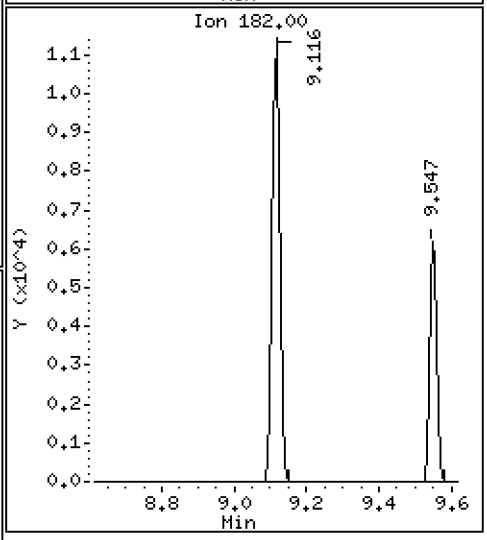
Column phase: DB-VRX Column diameter: 0.25

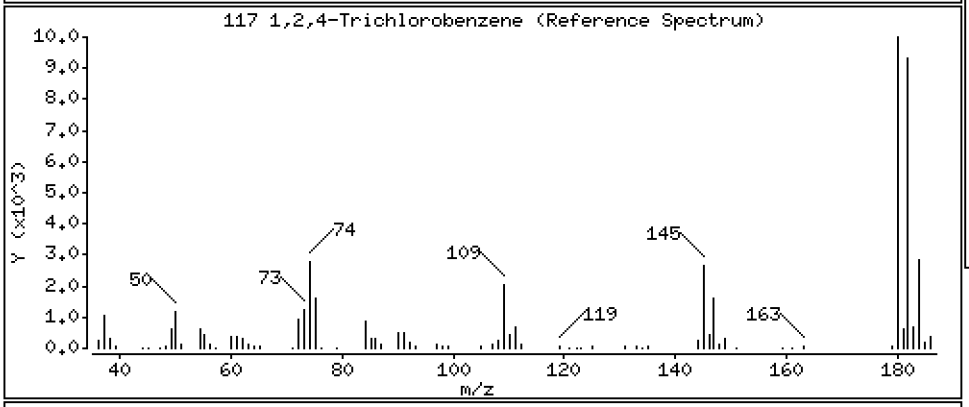
117 1,2,4-Trichlorobenzene Concentration: 4.19371 ug/L

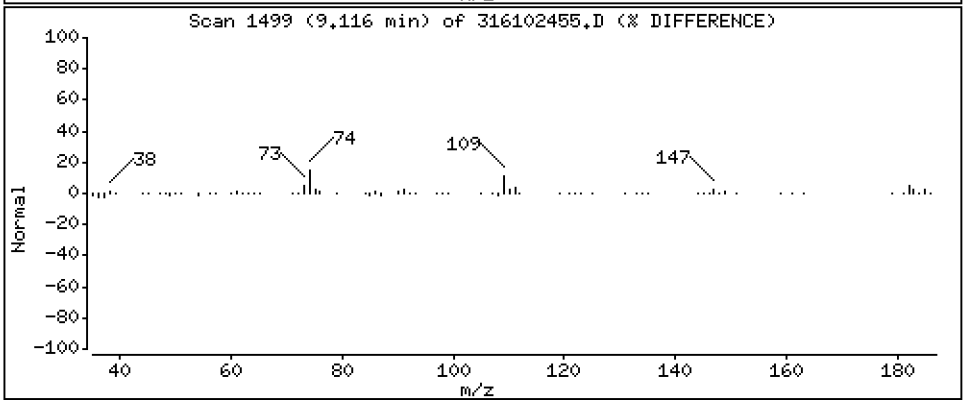












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 118

Date : 25-OCT-2016 00:08

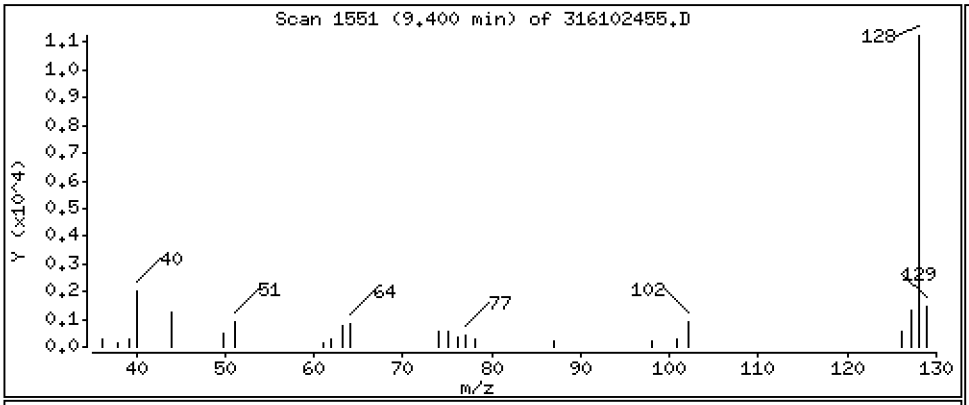
Client ID: Instrument: ms03.i

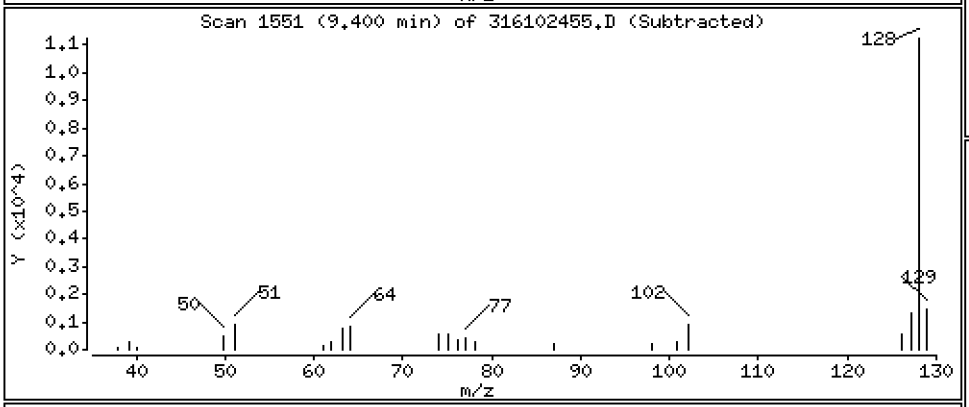
Sample Info: 1235;;1;1;2;;;

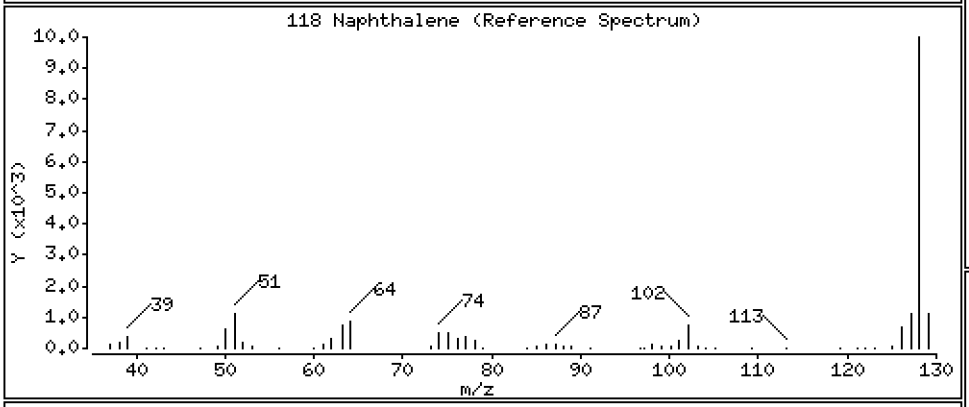
Purge Volume: 5.0 Operator: CJG

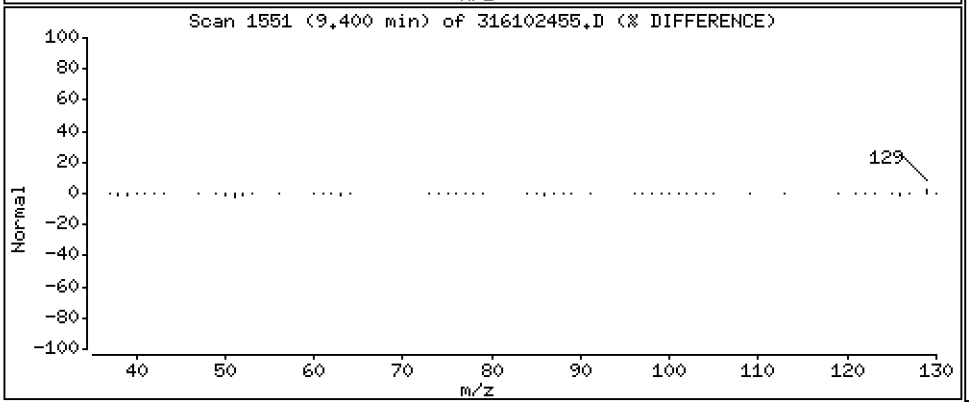
Column phase: DB-VRX Column diameter: 0.25

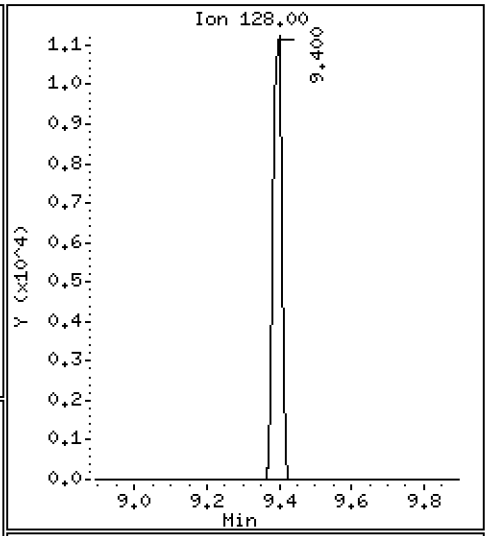
118 Naphthalene Concentration: 2.54318 ug/L

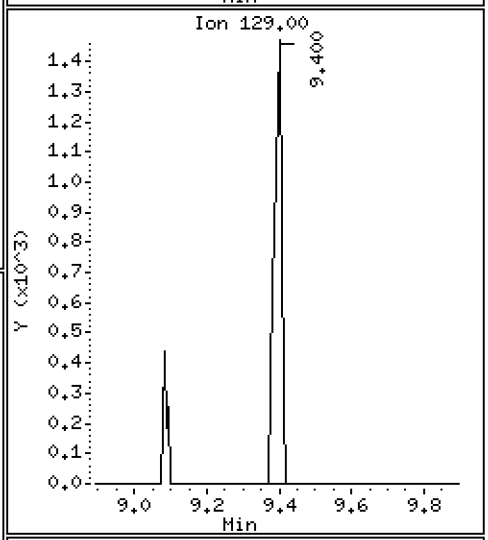


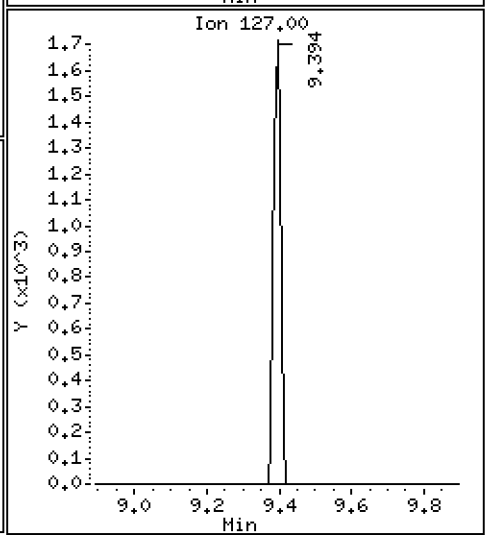












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 119

Date : 25-OCT-2016 00:08

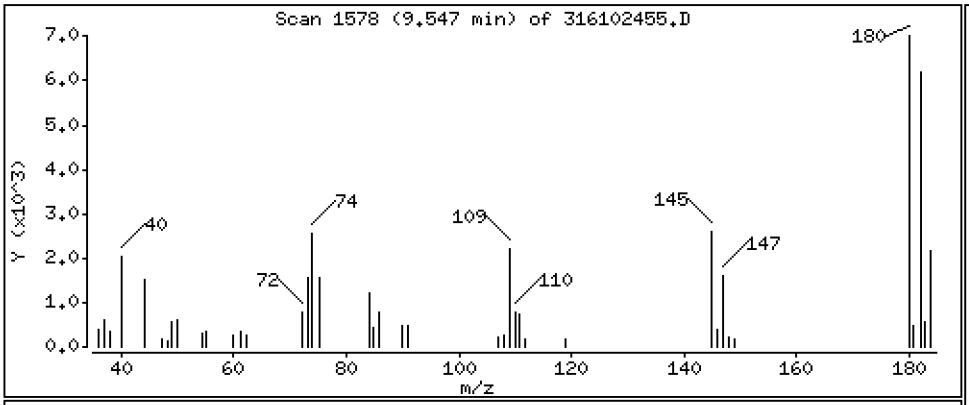
Client ID: Instrument: ms03.i

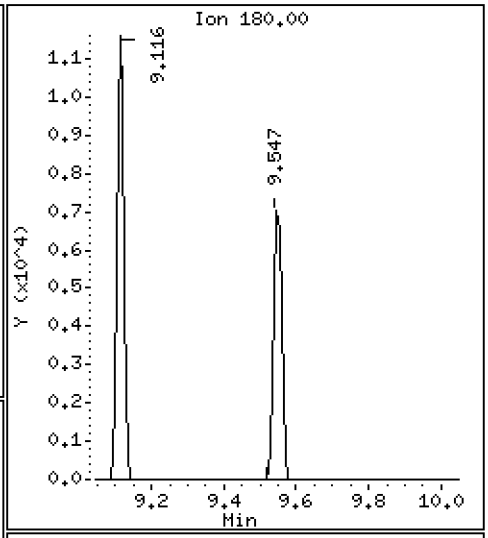
Sample Info: 1235;;1;1;2;;;

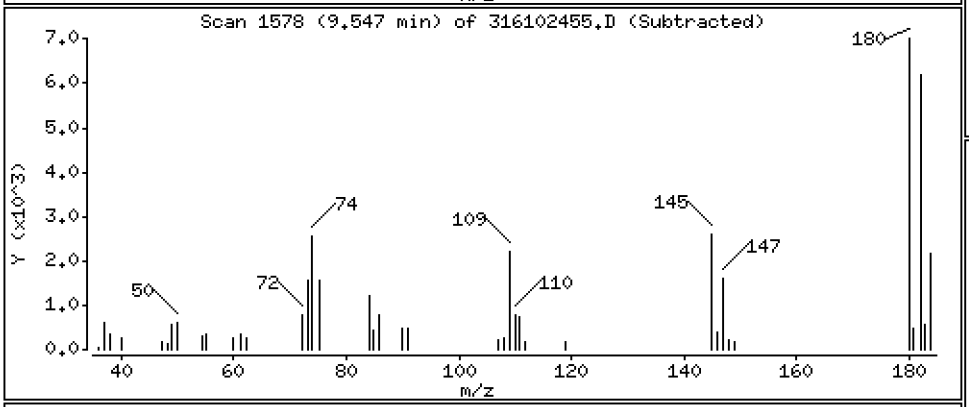
Purge Volume: 5.0 Operator: CJG

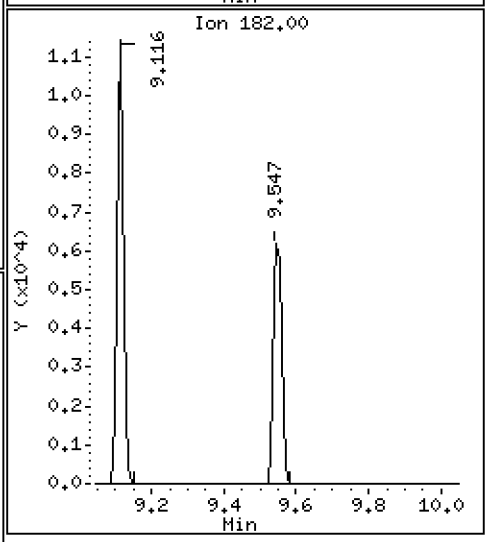
Column phase: DB-VRX Column diameter: 0.25

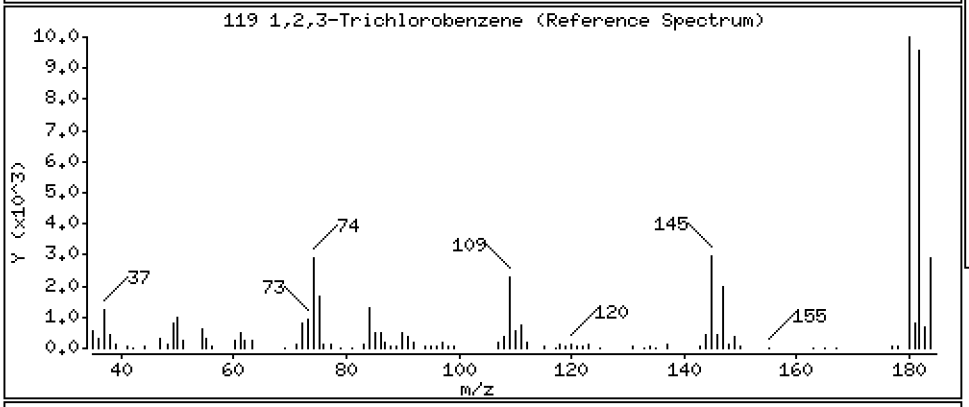
119 1,2,3-Trichlorobenzene Concentration: 4.10567 ug/L

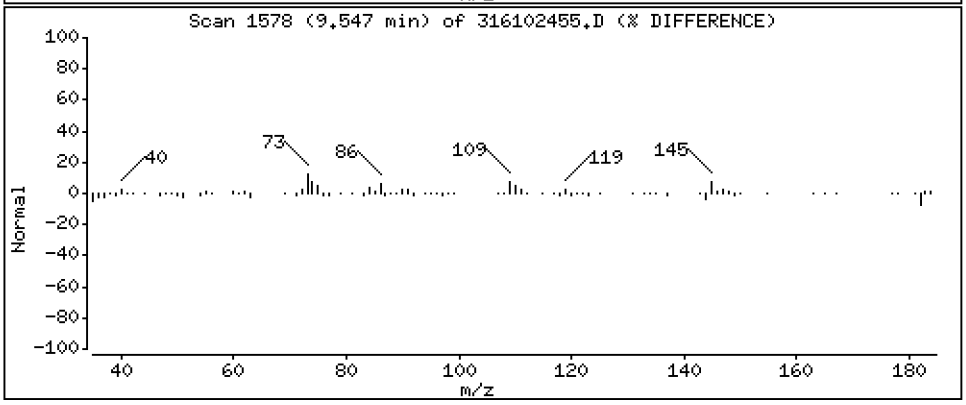








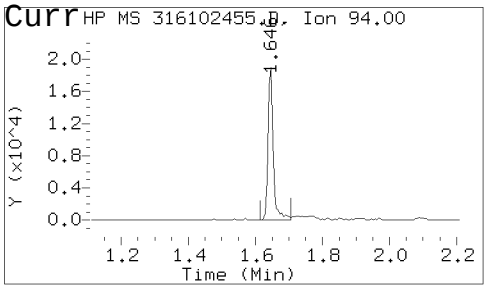


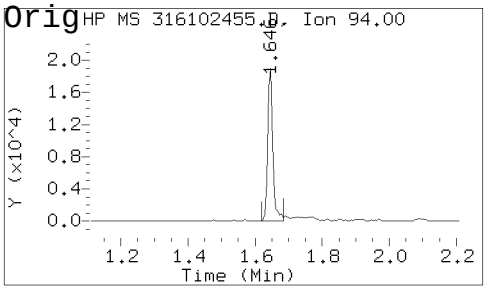


MANUAL INTEGRATION REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1235 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102455.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102455.D
Injection Date: 25-OCT-2016 00:08 Operator: CJG

Bromomethane

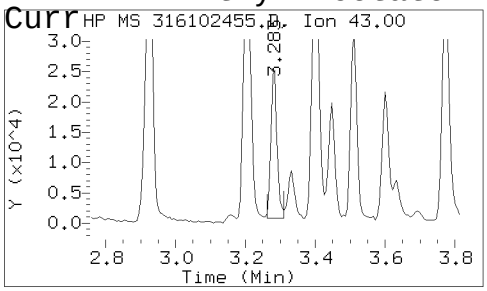


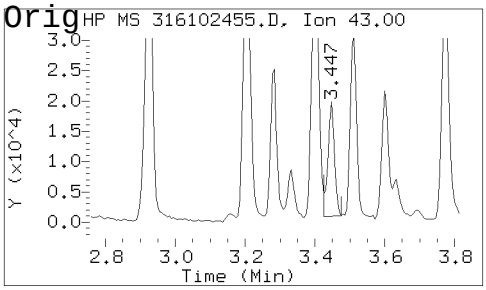


Curr. Area: 20074
Orig. Area: 19441

Curr. ON-COL: 5.27260
Orig. ON-COL: 4.00760

Ethyl Acetate

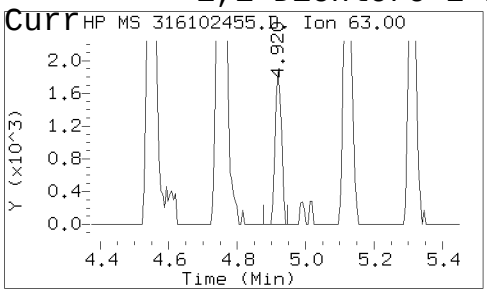


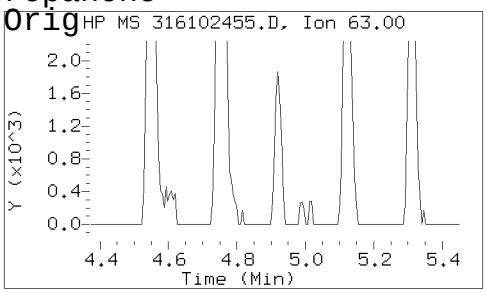


Curr. Area: 31989
Orig. Area: 24590

Curr. ON-COL: 4.63601
Orig. ON-COL: 3.78920

1,1-Dichloro-2-Propanone

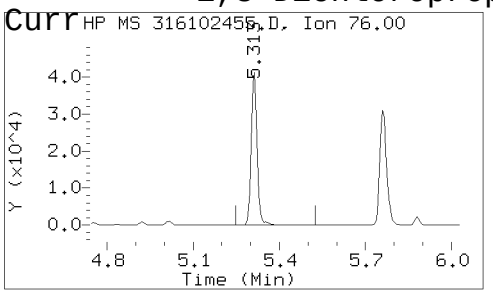


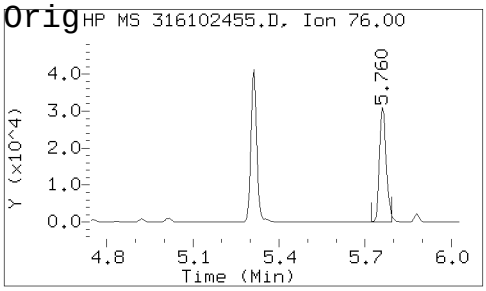


Curr. Area: 2477
Orig. Area: 0

Curr. ON-COL: 19.7526
Orig. ON-COL: 0.000000

1,3-Dichloropropane

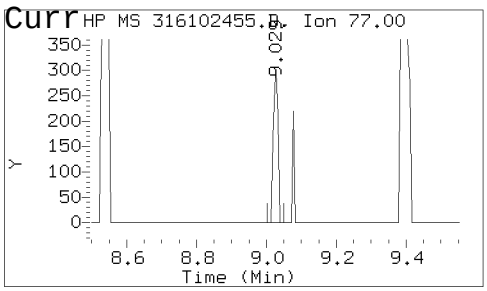


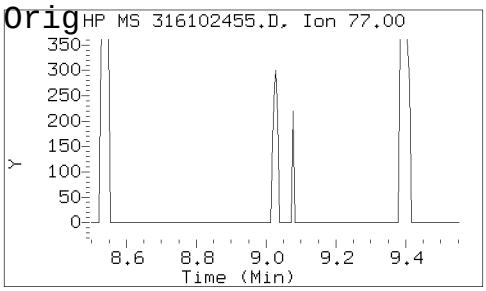


Curr. Area: 59764
Orig. Area: 50441

Curr. ON-COL: 5.28577
Orig. ON-COL: 4.53558

Nitrobenzene





Curr. Area: 308
Orig. Area: 0

Curr. ON-COL: 102.889
Orig. ON-COL: 0.000000

UNASSIGNED PEAK REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1235 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102455.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102455.D
Injection Date: 25-OCT-2016 00:08 Operator: CJG

Data File: 316102456.D Page 1
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610245
Lab Smp Id: 1236
Inj Date : 25-OCT-2016 00:30
Operator : CJG Inst ID: ms03.i
Smp Info : 1236;;1;1;3;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b0
Meth Date : 25-Oct-2016 10:10 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 00:30 Cal File: 316102456.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: ALMDTW7062

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.259	(0.332)	256203	20.0000	21.3503	
2 Chloromethane	50	1.389	1.390	(0.367)	229405	20.0000	21.0472	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	262777	20.0000	21.1524	
4 Bromomethane	94	1.645	1.646	(0.434)	85332	20.0000	20.7079(M)	
5 Chloroethane	64	1.722	1.723	(0.454)	156148	20.0000	20.9403	
6 Pentane	41	1.793	1.794	(0.473)	149216	20.0000	23.1506	
7 Trichlorofluoromethane	101	1.804	1.799	(0.476)	282650	20.0000	22.1313	
8 Dichlorofluoromethane	67	1.831	1.826	(0.483)	341018	20.0000	20.8170	
9 Ethyl Ether	74	1.967	1.968	(0.519)	110070	20.0000	20.3484	
10 1,1-Dichloroethene	61	2.087	2.088	(0.551)	237544	20.0000	20.8694	
11 Freon 113	101	2.104	2.105	(0.555)	137200	20.0000	22.7523	
12 Carbon Disulfide	76	2.120	2.121	(0.559)	394485	20.0000	19.2877	
13 Iodomethane	127	2.180	2.181	(0.575)	19592	20.0000	16.4160(Q)	
14 Acrolein	56	2.273	2.274	(0.600)	219069	200.000	191.614	
15 Isopropyl Alcohol	45	2.333	2.334	(0.616)	26915	100.000	102.011(M)	IH
16 3-Chloro-1-propene	41	2.344	2.345	(0.619)	212411	20.0000	19.3527	
17 Methylene Chloride	84	2.404	2.405	(0.634)	168953	20.0000	20.2759	
18 Acetone	58	2.426	2.427	(0.640)	58582	100.000	98.5274	
19 Methyl acetate	74	2.480	2.481	(0.655)	24024	20.0000	19.6444(Q)	
20 trans-1,2-Dichloroethene	61	2.486	2.487	(0.656)	232119	20.0000	20.6897	
21 Hexane	57	2.519	2.519	(0.665)	344622	20.0000	21.5320	

Data File: 316102456.D Page 2
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.535	2.530	(0.669)	395093	20.0000	19.2907	
	23 tert.- Butyl Alcohol	59	2.568	2.563	(0.678)	38194	100.000	87.0973	
	24 Acetonitrile	41	2.682	2.683	(0.708)	72658	100.000	98.5591	
	25 Diisopropyl ether	45	2.720	2.721	(0.718)	534370	20.0000	19.0405	
	26 Chloroprene	53	2.797	2.798	(0.738)	237701	20.0000	20.7934	
	27 1,1-Dichloroethane	63	2.813	2.814	(0.742)	307491	20.0000	20.8653	
	28 Acrylonitrile	53	2.846	2.841	(0.751)	270722	100.000	97.1648	
	29 Ethyl tert-butyl ether	59	2.911	2.912	(0.768)	448156	20.0000	18.6453	
	30 n-Propanol	41	2.911	2.912	(0.768)	107988	200.000	201.474(aQ)	
	31 Vinyl Acetate	86	2.928	2.929	(0.773)	30464	20.0000	18.5966	
	32 cis-1,2-Dichloroethene	61	3.097	3.098	(0.817)	231200	20.0000	20.2884	
	33 2,2-Dichloropropane	77	3.162	3.158	(0.834)	191410	20.0000	20.2029	
	34 Bromochloromethane	128	3.211	3.207	(0.847)	64972	20.0000	19.1182	
	35 Cyclohexane	84	3.211	3.212	(0.847)	253960	20.0000	22.8562	
	36 Chloroform	83	3.233	3.234	(0.853)	304866	20.0000	21.1711	
	37 Ethyl Acetate	43	3.282	3.278	(0.866)	128967	20.0000	18.3061	
	38 Methyl acrylate	55	3.293	3.294	(0.869)	131648	20.0000	19.5381	
	39 Carbon Tetrachloride	117	3.326	3.321	(0.878)	160959	20.0000	20.8101	
	40 Tetrahydrofuran	42	3.332	3.327	(0.879)	206571	100.000	96.3786	
$	41 Dibromofluoromethane	113	3.337	3.338	(0.881)	121279	20.0000	20.2291	
	42 1,1,1-Trichloroethane	97	3.359	3.360	(0.886)	219413	20.0000	20.5855	
	43 2-Butanone	72	3.402	3.398	(0.898)	83193	100.000	92.2137	
	44 1,1-Dichloropropene	75	3.424	3.425	(0.904)	230580	20.0000	21.6280	
	45 1-Chlorobutane	41	3.446	3.447	(0.909)	189319	20.0000	21.9272	
	46 Heptane	71	3.512	3.512	(0.927)	113625	20.0000	22.6231	
	47 Benzene	78	3.561	3.567	(0.940)	702918	20.0000	20.8952	
	48 Propionitrile	54	3.577	3.578	(0.944)	102179	100.000	99.8274	
	49 Methacrylonitrile	67	3.588	3.583	(0.947)	62847	20.0000	20.2305	
	50 tert-Amyl methyl ether	73	3.599	3.600	(0.950)	361089	20.0000	19.2216	
$	51 1,2-Dichloroethane-d4	65	3.637	3.638	(0.960)	156092	20.0000	19.2375	
	52 1,2-Dichloroethane	62	3.675	3.676	(0.970)	201182	20.0000	19.9189	
	53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	31783	100.000	90.6931	
	54 Isobutyl alcohol	43	3.632	3.632	(0.958)	36016	200.000	218.271(QM)	MP
*	55 Fluorobenzene	96	3.790	3.791	(1.000)	983996	30.0000		
	56 Diisobutylene	57	3.795	3.796	(1.001)	469197	20.0000	23.2009	
	57 Trichloroethene	95	3.883	3.883	(1.024)	160760	20.0000	21.4701	
	58 Methyl cyclohexane	83	3.883	3.883	(0.674)	269021	20.0000	23.2785	
	59 tert-Amyl Ethylether	59	3.992	3.987	(1.053)	319806	20.0000	18.5741	
	60 Dibromomethane	93	4.139	4.139	(1.092)	82164	20.0000	19.4582	
	61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	171861	20.0000	19.7243	
	62 Bromodichloromethane	83	4.221	4.222	(1.114)	172170	20.0000	18.7536	
	63 Methyl methacrylate	41	4.292	4.293	(1.132)	113862	20.0000	17.4378	
	64 1,4-Dioxane	88	4.335	4.336	(1.144)	13279	500.000	418.353	
	65 2-Chloroethylvinyl ether	63	4.548	4.549	(1.200)	68190	20.0000	17.3366	
	66 cis-1,3-Dichloropropene	75	4.603	4.604	(0.799)	220262	20.0000	18.6362	
	67 Octane	85	4.608	4.609	(0.800)	71922	20.0000	21.9779	
$	68 Toluene-d8	98	4.723	4.724	(0.820)	521206	20.0000	20.4707	
	69 Toluene	92	4.756	4.756	(0.826)	390872	20.0000	21.1753	
	70 Chloroacetonitrile	48	4.827	4.833	(0.838)	15902	100.000	90.4287	
	71 2-Nitropropane	41	4.908	4.909	(0.852)	122115	100.000	88.7300	
	72 1,1-Dichloro-2-Propanone	63	4.919	4.920	(0.854)	12224	100.000	92.9587(QM)	IH
	73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.986	(0.865)	692941	100.000	96.8150	
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	106945	20.0000	22.7108	
	75 trans-1,3-Dichloropropene	75	5.012	5.013	(0.870)	193046	20.0000	18.6188	

Data File: 316102456.D Page 3
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.094	5.095	(0.884)	179040	20.0000	18.7051	
	77 1,1,2-Trichloroethane	83	5.127	5.122	(0.890)	110743	20.0000	20.5033	
	78 Chlorodibromomethane	129	5.247	5.247	(0.911)	100836	20.0000	18.5687	
	79 1,3-Dichloropropane	76	5.312	5.313	(0.922)	233036	20.0000	20.1134(M)	IH
	80 1,2-Dibromoethane	107	5.421	5.422	(0.941)	111502	20.0000	20.0089	
	81 2-Hexanone	43	5.541	5.542	(0.962)	433431	100.000	93.0673	
	82 1-Chlorohexane	91	5.738	5.739	(0.996)	196019	20.0000	20.6714	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	412590	30.0000		
	84 Chlorobenzene	112	5.770	5.777	(1.002)	381262	20.0000	20.9713	
	85 Ethylbenzene	106	5.781	5.782	(1.004)	212679	20.0000	21.2382	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.815	(1.009)	107820	20.0000	19.8611	
	87 mp-Xylene	106	5.880	5.880	(1.021)	509525	40.0000	41.9676	
	88 o-Xylene	106	6.196	6.197	(1.076)	226803	20.0000	19.7110	
	89 Styrene	104	6.234	6.235	(0.829)	376725	20.0000	20.1189	
	90 Bromoform	173	6.262	6.262	(0.833)	42057	20.0000	18.1111	
	91 Isopropylbenzene	105	6.425	6.426	(0.855)	602947	20.0000	21.1345	
$	92 4-Bromofluorobenzene	174	6.649	6.650	(0.885)	103913	20.0000	20.1727	
	93 Bromobenzene	156	6.731	6.732	(0.895)	120328	20.0000	20.7845	
	94 n-Propylbenzene	120	6.736	6.737	(0.896)	155840	20.0000	21.3643	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.792	(0.903)	140691	20.0000	20.3832	
	96 o-Chlorotoluene	91	6.867	6.868	(0.914)	470494	20.0000	20.9538	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.916)	462459	20.0000	21.0203	
	98 1,2,3-Trichloropropane	110	6.905	6.906	(0.919)	42045	20.0000	20.9866	
	99 trans-1,4-Dichloro-2-butene	53	6.927	6.933	(0.922)	35891	20.0000	19.1999(Q)	
M	100 1,2-Dichloroethene, Total	61				463319	40.0000	40.9781	
	101 p-Chlorotoluene	91	6.993	6.994	(0.930)	426800	20.0000	20.6400	
	102 tert-Butylbenzene	134	7.140	7.141	(0.950)	100413	20.0000	21.2947	
	103 Pentachloroethane	117	7.156	7.163	(0.952)	80199	20.0000	19.6821(Q)	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.957)	453990	20.0000	20.7071	
	105 sec-Butylbenzene	105	7.276	7.277	(0.968)	565609	20.0000	21.2680	
	106 p-Isopropyltoluene	134	7.391	7.392	(0.983)	108247	20.0000	20.6170	
	107 1,3-Dichlorobenzene	146	7.462	7.463	(0.993)	216121	20.0000	20.8608	
*	108 1,4-Dichlorobenzene-d4	152	7.517	7.523	(1.000)	249307	30.0000		
	109 1,4-Dichlorobenzene	146	7.533	7.534	(1.002)	217075	20.0000	20.8640	
	110 Benzyl Chloride	126	7.735	7.736	(1.029)	20954	20.0000	15.8113(Q)	
	111 n-Butylbenzene	134	7.735	7.736	(1.029)	90469	20.0000	20.2340(Q)	
	112 Hexachloroethane	117	7.849	7.850	(1.044)	56475	20.0000	18.3778	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.048)	190161	20.0000	20.4145	
	114 1,2-Dibromo-3-chloropropane	75	8.542	8.542	(1.136)	13909	20.0000	18.4400	
	115 Nitrobenzene	77	9.028	9.029	(1.201)	3117	200.000	256.981	
	116 Hexachlorobutadiene	225	9.088	9.089	(1.209)	36231	20.0000	20.8798	
	117 1,2,4-Trichlorobenzene	180	9.115	9.116	(1.213)	71562	20.0000	18.3242	
	118 Naphthalene	128	9.394	9.394	(1.250)	101494	20.0000	14.6181	
	119 1,2,3-Trichlorobenzene	180	9.546	9.547	(1.270)	45943	20.0000	18.4824	
M	120 1,3-Dichloropropene, Total	75				413308	40.0000	37.2550	
M	121 Total Xylenes	106				736328	60.0000	61.6785	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 316102456.D Page 4
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 25-OCT-2016
Lab File ID: 316102456.D Calibration Time: 00:52
Lab Smp Id: 1236
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: CJG
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	983996	-2.88
83 Chlorobenzene-d5	432864	216432	865728	412590	-4.68
108 1,4-Dichlorobenze	273837	136919	547674	249307	-8.96

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	-0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	-0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102456.D Page 5
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1236
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	21.3503	
74-87-3	Chloromethane	21.0472	
75-01-4	Vinyl Chloride	21.1524	
74-83-9	Bromomethane	20.7079	
75-00-3	Chloroethane	20.9403	
109-66-0	Pentane	23.1506	
75-69-4	Trichlorofluoromethane	22.1313	
75-43-4	Dichlorofluoromethane	20.8170	
60-29-7	Ethyl Ether	20.3484	
75-35-4	1,1-Dichloroethene	20.8694	
76-13-1	Freon 113	22.7523	
75-15-0	Carbon Disulfide	19.2877	
74-88-4	Iodomethane	16.4160	
107-02-8	Acrolein	191.614	
67-63-0	Isopropyl Alcohol	102.011	
107-05-1	3-Chloro-1-propene	19.3527	
75-09-2	Methylene Chloride	20.2759	
67-64-1	Acetone	98.5274	
79-20-9	Methyl acetate	19.6444	
156-60-5	trans-1,2-Dichloroethene	20.6897	
110-54-3	Hexane	21.5320	
1634-04-4	Methyl t-Butyl Ether	19.2907	
75-65-0	tert.- Butyl Alcohol	87.0973	
75-05-8	Acetonitrile	98.5591	
108-20-3	Diisopropyl ether	19.0405	
126-99-8	Chloroprene	20.7934	
75-34-3	1,1-Dichloroethane	20.8653	
107-13-1	Acrylonitrile	97.1648	
637-92-3	Ethyl tert-butyl ether	18.6453	
71-23-8	n-Propanol	201.474	J
108-05-4	Vinyl Acetate	18.5966	
156-59-2	cis-1,2-Dichloroethene	20.2884	
594-20-7	2,2-Dichloropropane	20.2029	
74-97-5	Bromochloromethane	19.1182	
110-82-7	Cyclohexane	22.8562	
67-66-3	Chloroform	21.1711	
141-78-6	Ethyl Acetate	18.3061	
96-33-3	Methyl acrylate	19.5381	
56-23-5	Carbon Tetrachloride	20.8101	
109-99-9	Tetrahydrofuran	96.3786	
71-55-6	1,1,1-Trichloroethane	20.5855	
78-93-3	2-Butanone	92.2137	

Data File: 316102456.D Page 6
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1236
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
563-58-6	1,1-Dichloropropene	21.6280	
109-69-3	1-Chlorobutane	21.9272	
142-82-5	Heptane	22.6231	
71-43-2	Benzene	20.8952	
107-12-0	Propionitrile	99.8274	
126-98-7	Methacrylonitrile	20.2305	
994-05-8	tert-Amyl methyl ether	19.2216	
107-06-2	1,2-Dichloroethane	19.9189	
75-85-4	tert-Amyl Alcohol	90.6931	
78-83-1	Isobutyl alcohol	218.271	
107-39-1	Diisobutylene	23.2009	
79-01-6	Trichloroethene	21.4701	
108-87-2	Methyl cyclohexane	23.2785	
919-94-8	tert-Amyl Ethylether	18.5741	
74-95-3	Dibromomethane	19.4582	
78-87-5	1,2-Dichloropropane	19.7243	
75-27-4	Bromodichloromethane	18.7536	
80-62-6	Methyl methacrylate	17.4378	
123-91-1	1,4-Dioxane	418.353	
110-75-8	2-Chloroethylvinyl ether	17.3366	
10061-01-5	cis-1,3-Dichloropropene	18.6362	
111-65-9	Octane	21.9779	
108-88-3	Toluene	21.1753	
107-14-2	Chloroacetonitrile	90.4287	
79-46-9	2-Nitropropane	88.7300	
513-88-2	1,1-Dichloro-2-Propanone	92.9587	
108-10-1	4-Methyl-2-Pentanone(MIBK)	96.8150	
127-18-4	Tetrachloroethene	22.7108	
10061-02-6	trans-1,3-Dichloropropene	18.6188	
97-63-2	Ethyl Methacrylate	18.7051	
79-00-5	1,1,2-Trichloroethane	20.5033	
124-48-1	Chlorodibromomethane	18.5687	
142-28-9	1,3-Dichloropropane	20.1134	
106-93-4	1,2-Dibromoethane	20.0089	
591-78-6	2-Hexanone	93.0673	
544-10-5	1-Chlorohexane	20.6714	
108-90-7	Chlorobenzene	20.9713	
100-41-4	Ethylbenzene	21.2382	
630-20-6	1,1,1,2-Tetrachloroethane	19.8611	
108383/106423	mp-Xylene	41.9676	
95-47-6	o-Xylene	19.7110	
100-42-5	Styrene	20.1189	

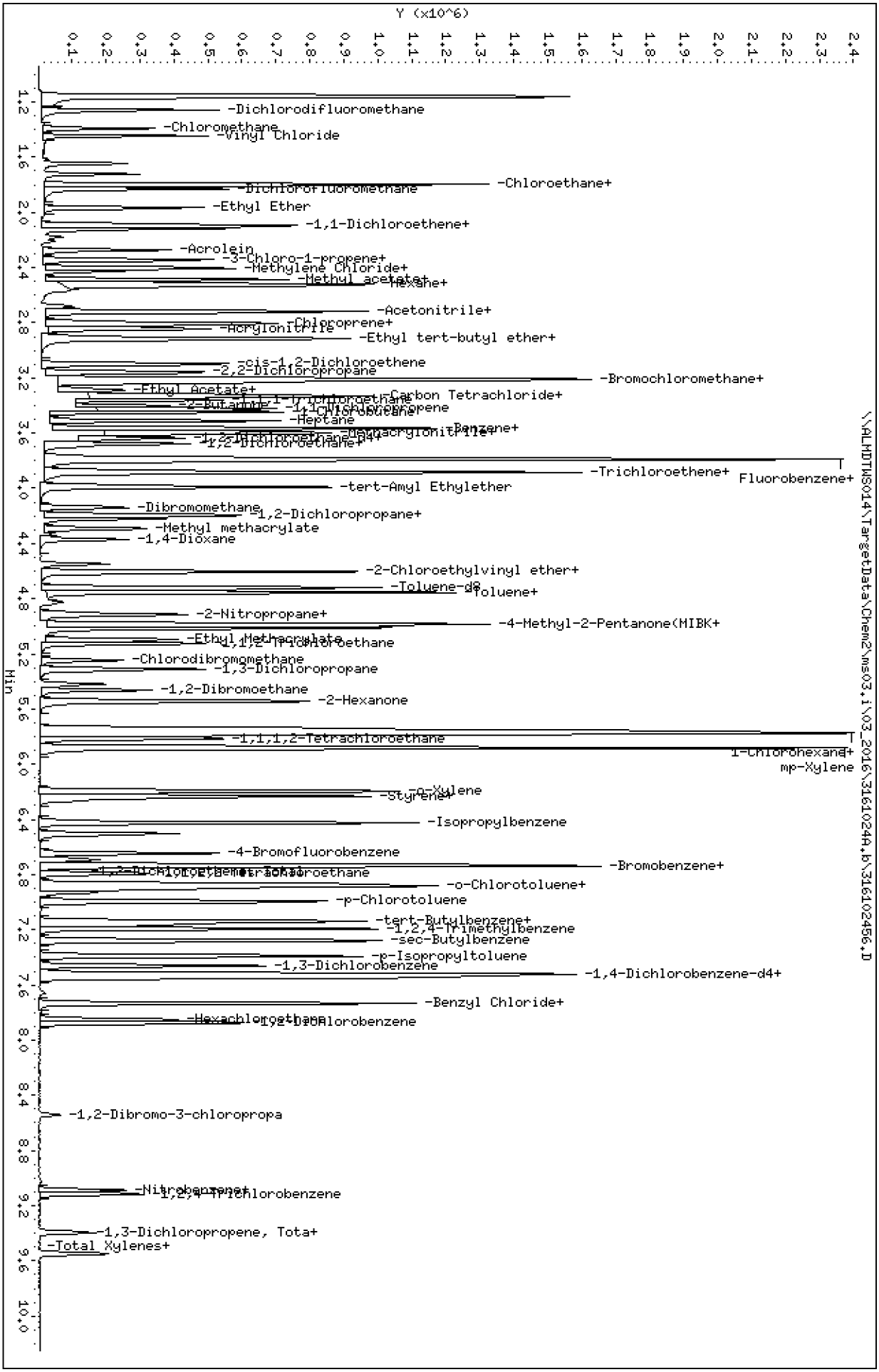
Data File: 316102456.D Page 7
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1236
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-25-2	Bromoform	18.1111	
98-82-8	Isopropylbenzene	21.1345	
108-86-1	Bromobenzene	20.7845	
103-65-1	n-Propylbenzene	21.3643	
79-34-5	1,1,2,2-Tetrachloroethane	20.3832	
95-49-8	o-Chlorotoluene	20.9538	
108-67-8	1,3,5-Trimethylbenzene	21.0203	
96-18-4	1,2,3-Trichloropropane	20.9866	
110-57-6	trans-1,4-Dichloro-2-butene	19.1999	
540-59-0	1,2-Dichloroethene, Total	40.9781	
106-43-4	p-Chlorotoluene	20.6400	
98-06-6	tert-Butylbenzene	21.2947	
76-01-7	Pentachloroethane	19.6821	
95-63-6	1,2,4-Trimethylbenzene	20.7071	
135-98-8	sec-Butylbenzene	21.2680	
99-87-6	p-Isopropyltoluene	20.6170	
541-73-1	1,3-Dichlorobenzene	20.8608	
106-46-7	1,4-Dichlorobenzene	20.8640	
100-44-7	Benzyl Chloride	15.8113	
104-51-8	n-Butylbenzene	20.2340	
67-72-1	Hexachloroethane	18.3778	
95-50-1	1,2-Dichlorobenzene	20.4145	
96-12-8	1,2-Dibromo-3-chloropropane	18.4400	
98-95-3	Nitrobenzene	256.981	
87-68-3	Hexachlorobutadiene	20.8798	
120-82-1	1,2,4-Trichlorobenzene	18.3242	
91-20-3	Naphthalene	14.6181	
87-61-6	1,2,3-Trichlorobenzene	18.4824	
542-75-6	1,3-Dichloropropene, Total	37.2550	
1330-20-7	Total Xylenes	61.6785	
1868-53-7	Dibromofluoromethane	20.2291	
17060-07-0	1,2-Dichloroethane-d4	19.2375	
2037-26-5	Toluene-d8	20.4707	
460-00-4	4-Bromofluorobenzene	20.1727	


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Chloroethane+
-Ethyl Ether
-1,1-Dichloroethene+
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Hexane+
-Acetonitrile+
-Acrylonitrile
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Carbon Tetrachloride+
-Heptane
-Benzene+
-Trichloroethene+
Fluorobenzene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK+
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1,1,1,2-Tetrachloroethane
1-Chlorohexane+
mp-Xylene
-o-Xylene
-Styrene+
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-1,2-Dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-1,3-Dichloropropene, Tota+
-Total Xylenes+
Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D
Date : 25-OCT-2016 00:30
Client ID:
Sample Info: 1236;;1;1;3;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S6.D

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 9

Date : 25-OCT-2016 00:30

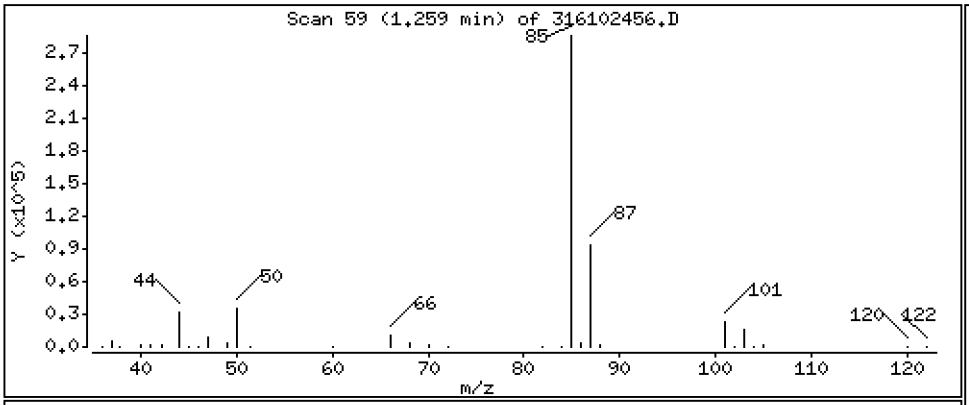
Client ID: Instrument: ms03.i

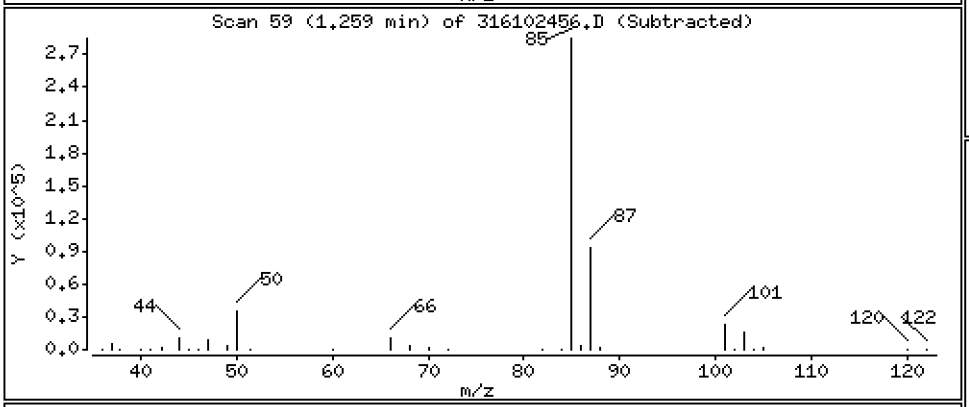
Sample Info: 1236;;1;1;3;;;

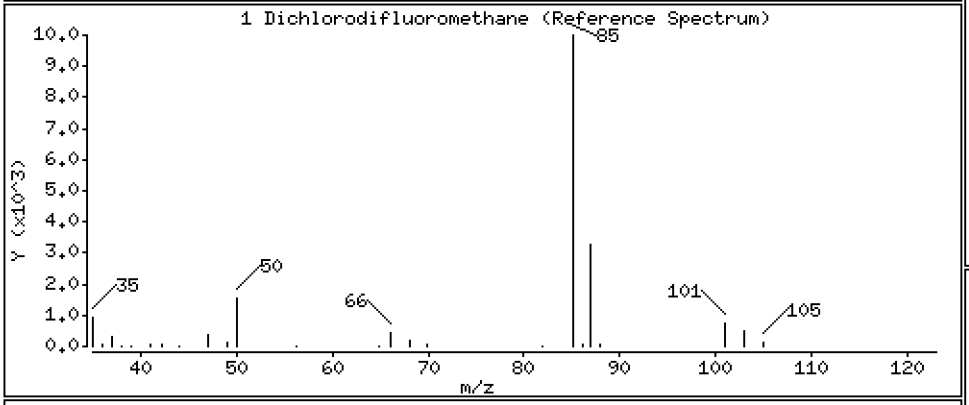
Purge Volume: 5.0 Operator: CJG

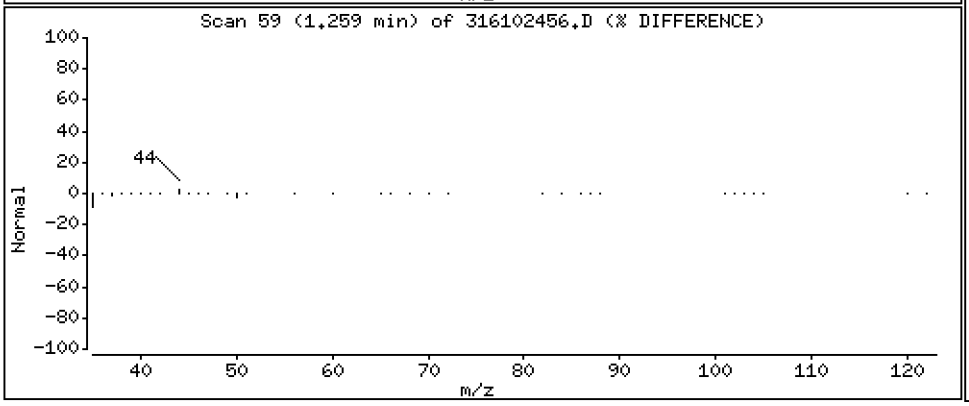
Column phase: DB-VRX Column diameter: 0.25

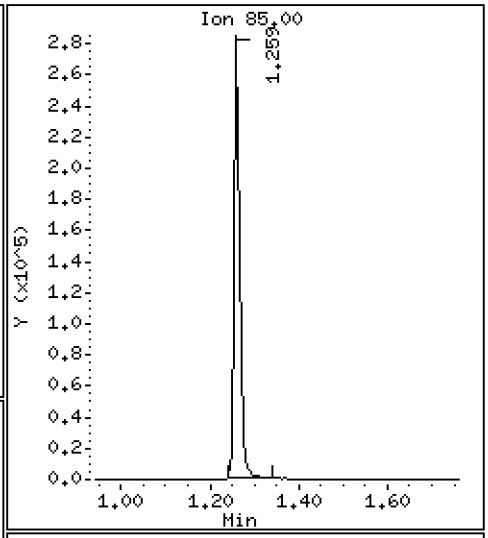
1 Dichlorodifluoromethane Concentration: 21.3503 ug/L

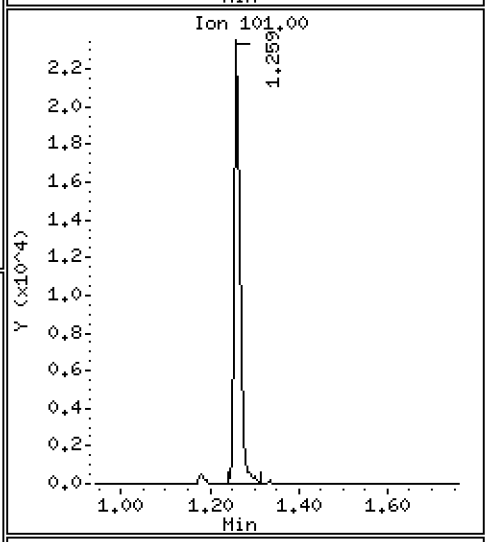


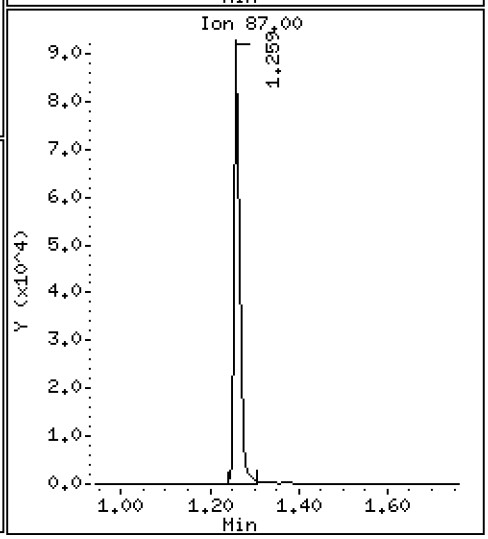












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 10

Date : 25-OCT-2016 00:30

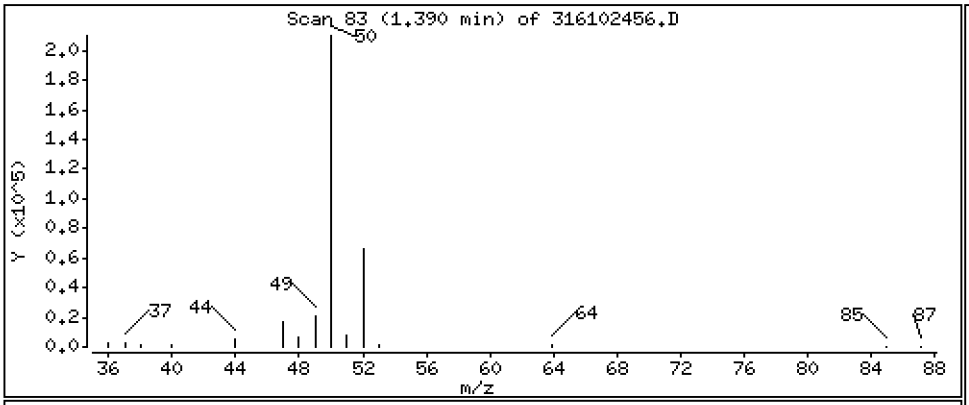
Client ID: Instrument: ms03.i

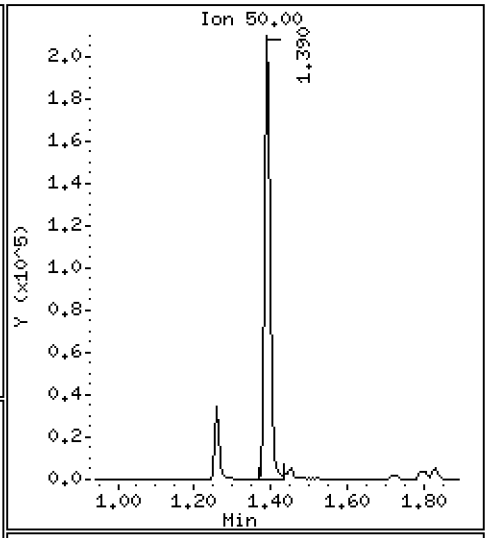
Sample Info: 1236;;1;1;3;;;

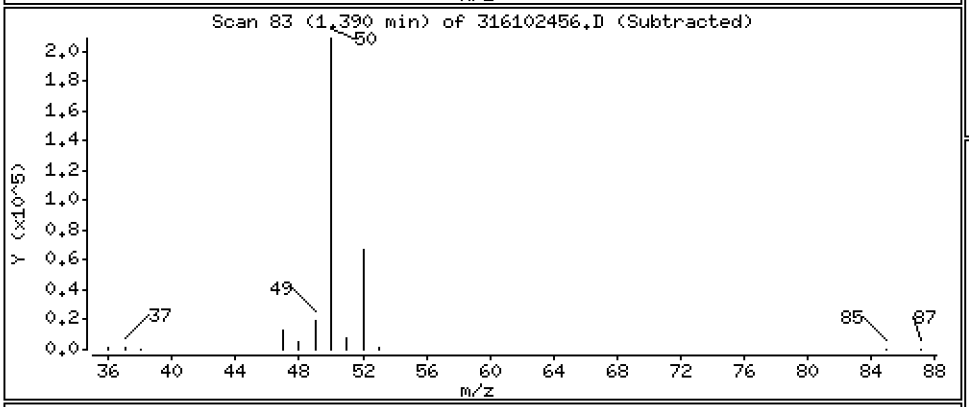
Purge Volume: 5.0 Operator: CJG

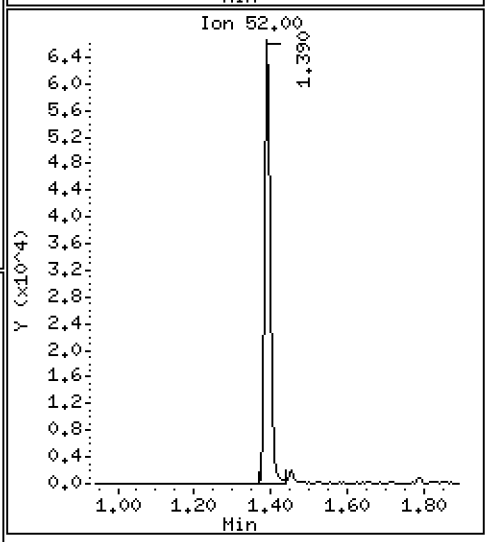
Column phase: DB-VRX Column diameter: 0.25

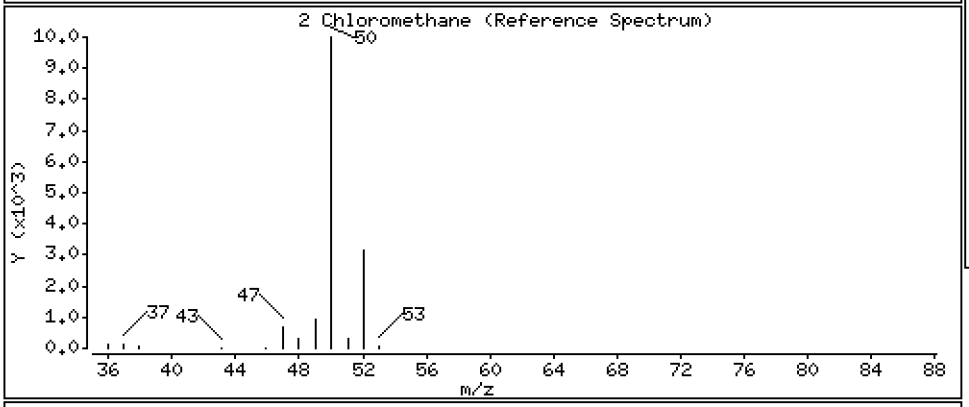
2 Chloromethane Concentration: 21.0472 ug/L

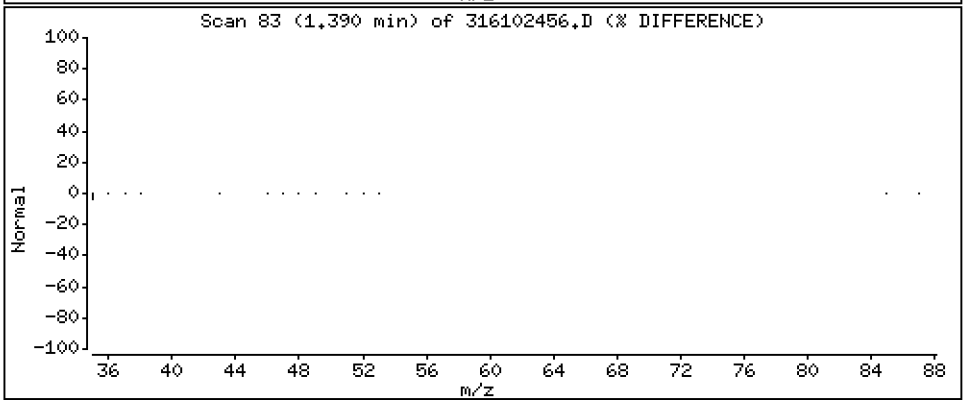












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 11

Date : 25-OCT-2016 00:30

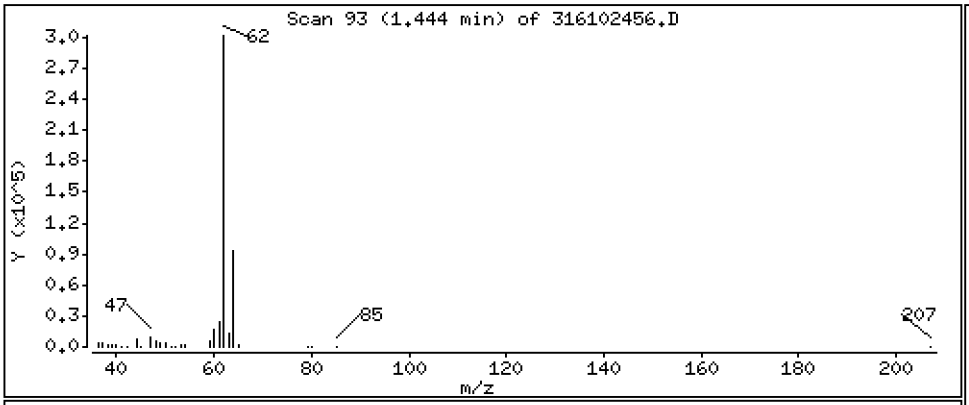
Client ID: Instrument: ms03.i

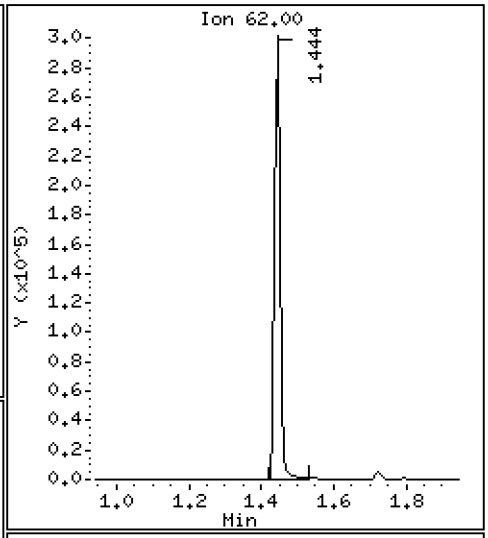
Sample Info: 1236;;1;1;3;;;

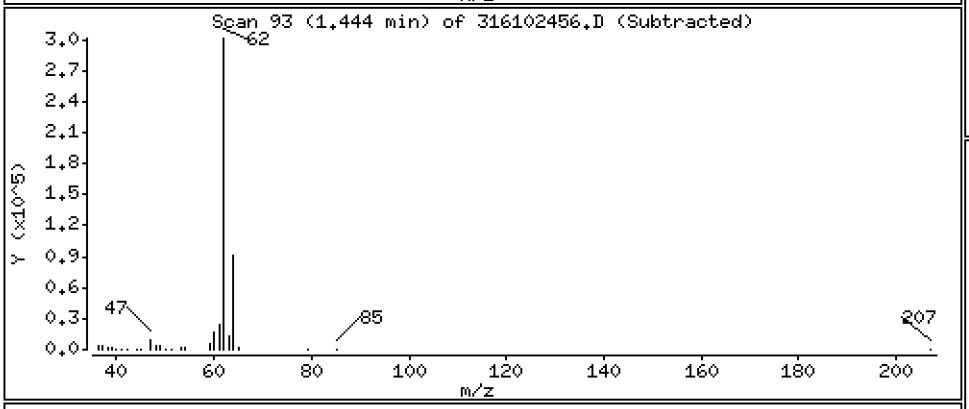
Purge Volume: 5.0 Operator: CJG

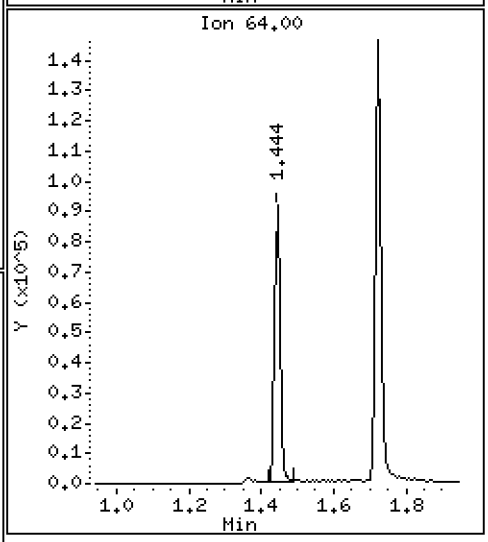
Column phase: DB-VRX Column diameter: 0.25

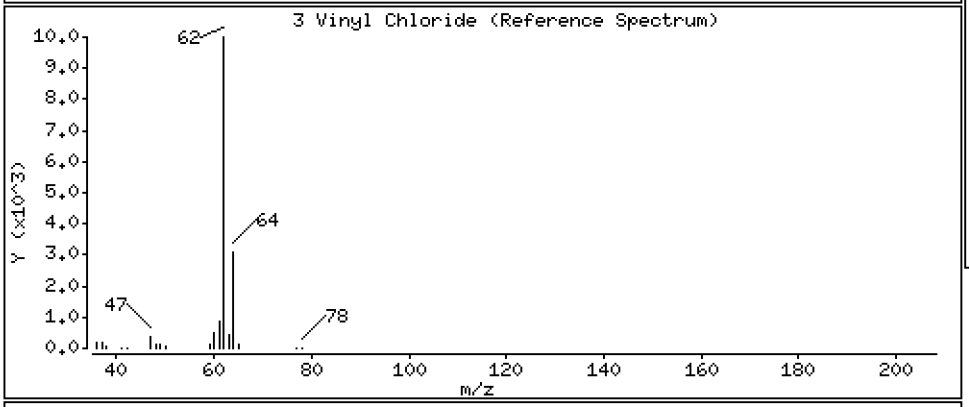
3 Vinyl Chloride Concentration: 21.1524 ug/L

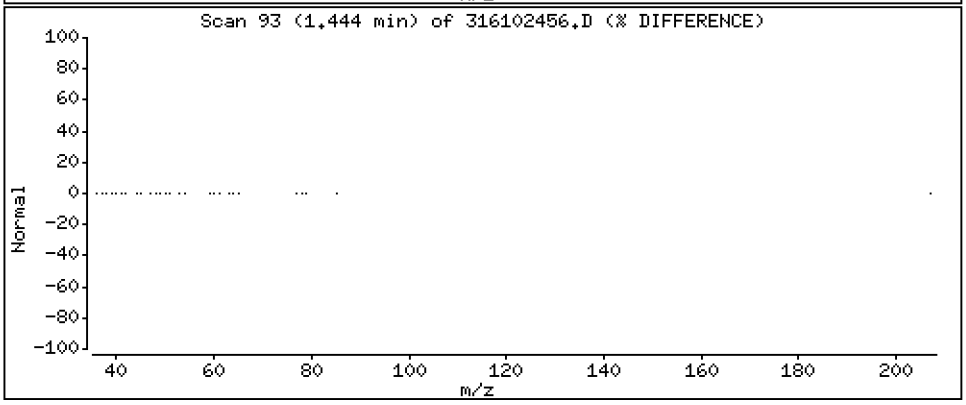












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 12

Date : 25-OCT-2016 00:30

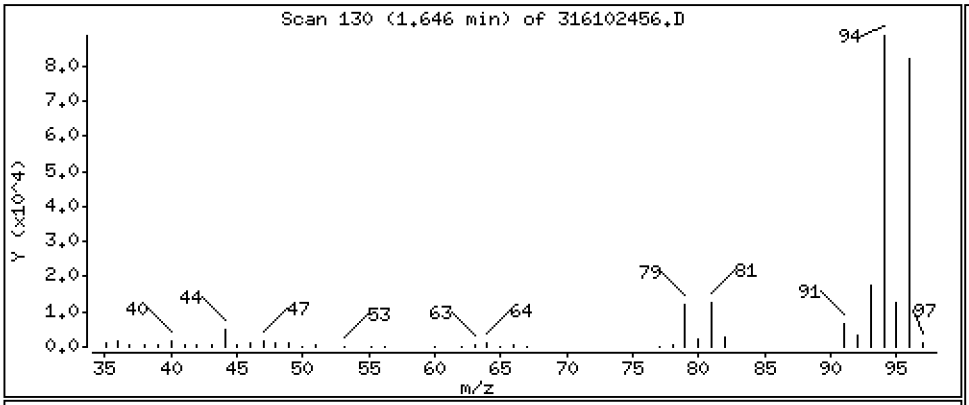
Client ID: Instrument: ms03.i

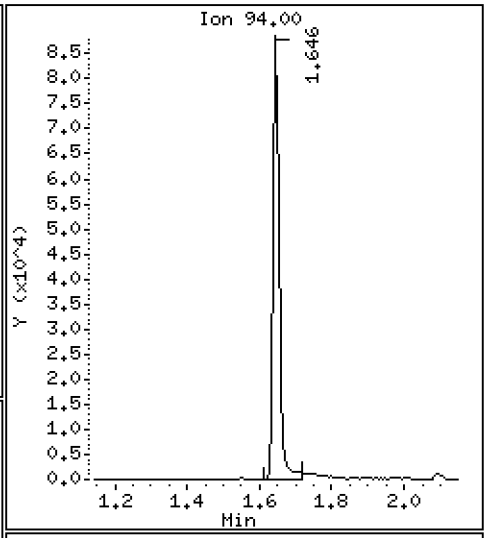
Sample Info: 1236;;1;1;3;;;

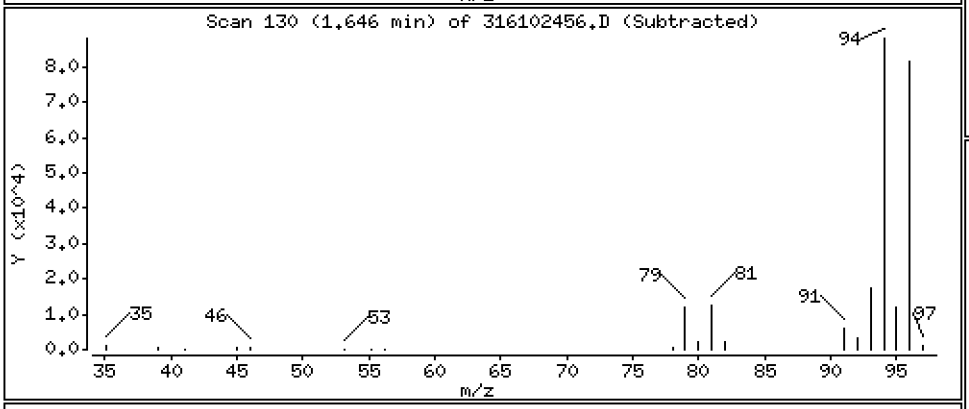
Purge Volume: 5.0 Operator: CJG

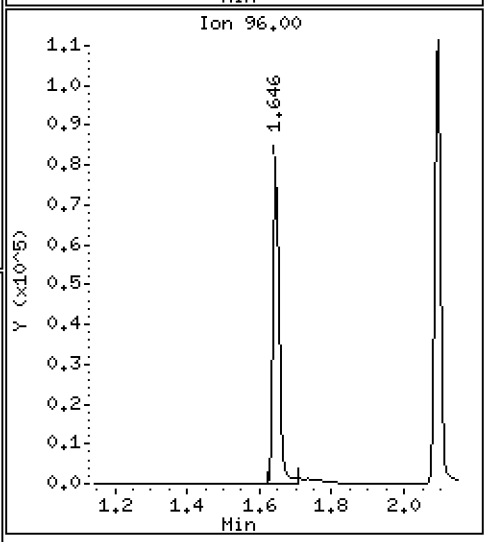
Column phase: DB-VRX Column diameter: 0.25

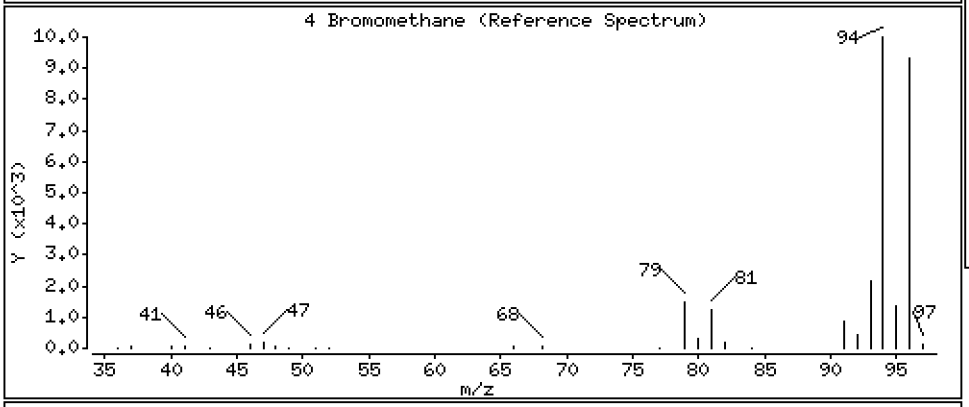
4 Bromomethane Concentration: 20.7079 ug/L

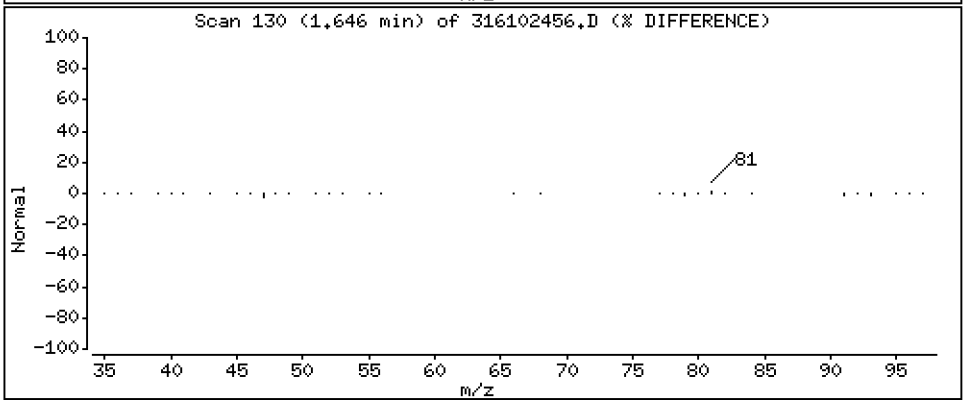












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 13

Date : 25-OCT-2016 00:30

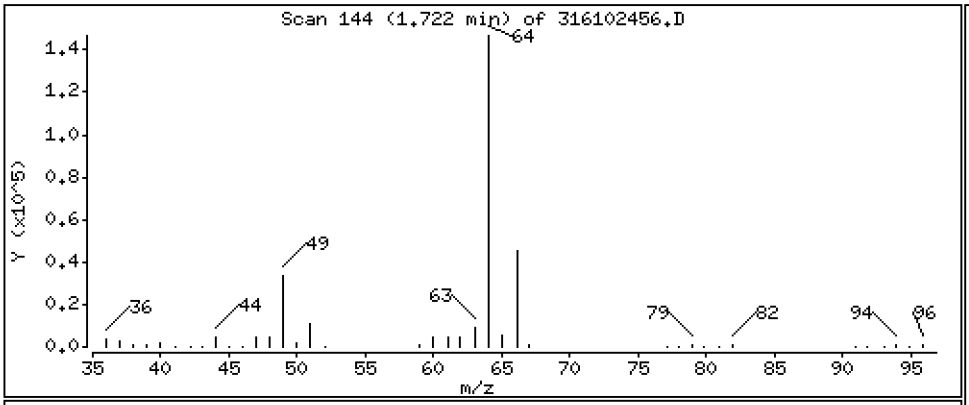
Client ID: Instrument: ms03.i

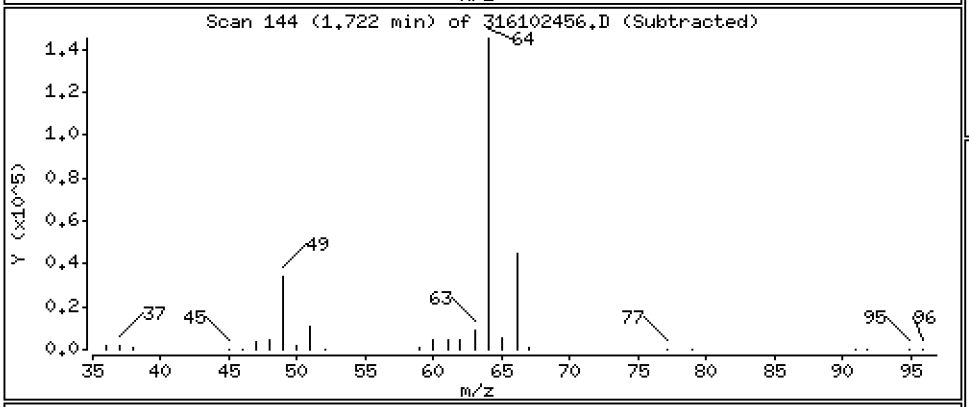
Sample Info: 1236;;1;1;3;;;

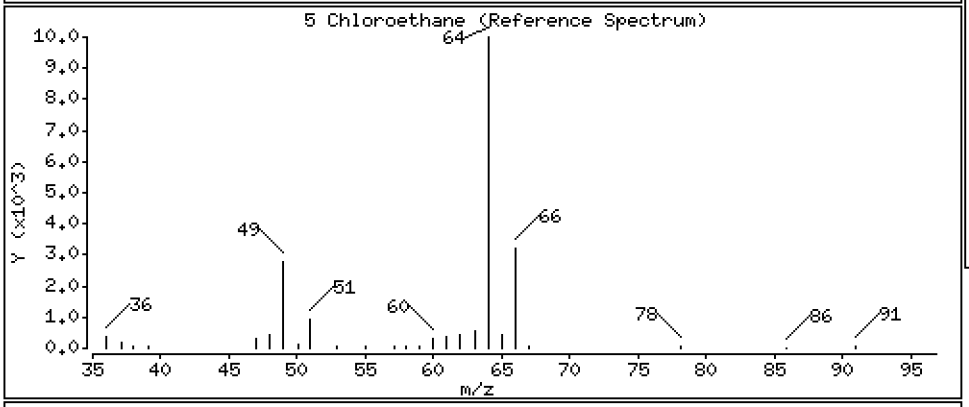
Purge Volume: 5.0 Operator: CJG

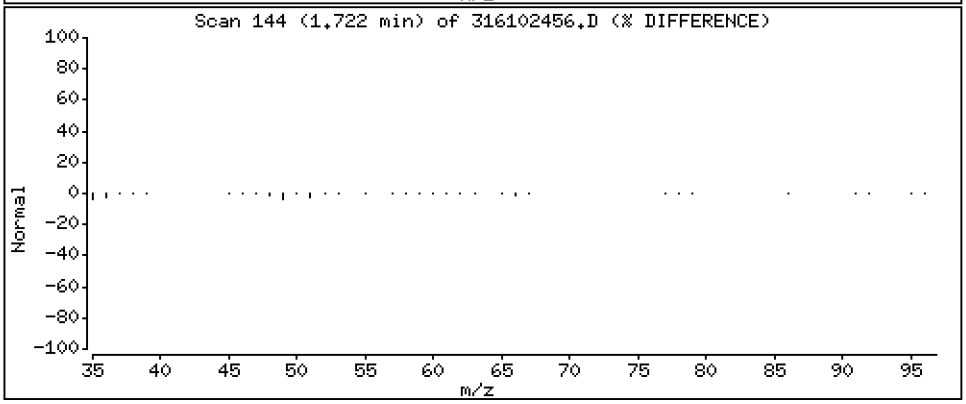
Column phase: DB-VRX Column diameter: 0.25

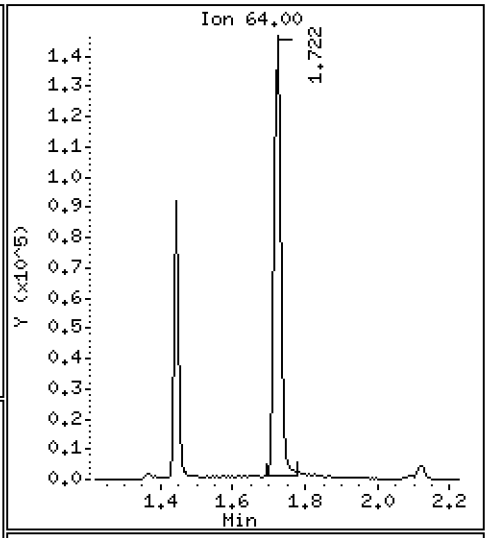
5 Chloroethane Concentration: 20.9403 ug/L

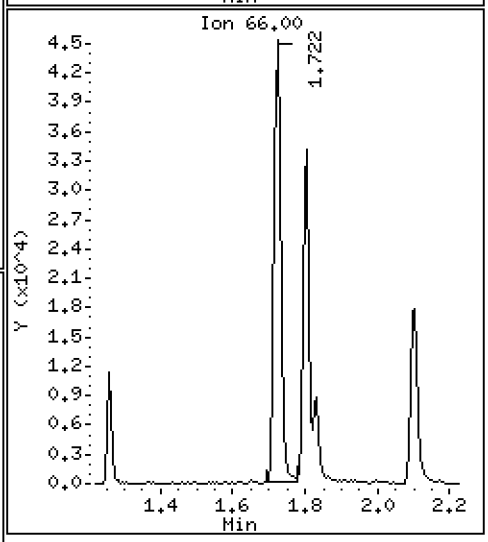












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 14

Date : 25-OCT-2016 00:30

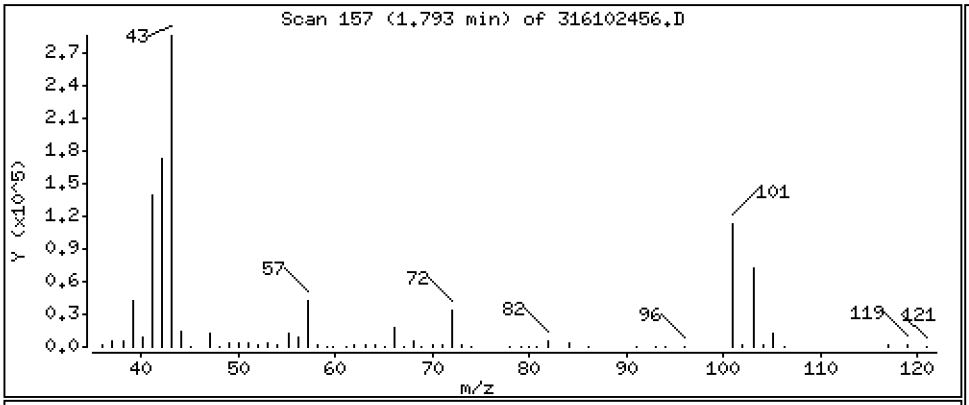
Client ID: Instrument: ms03.i

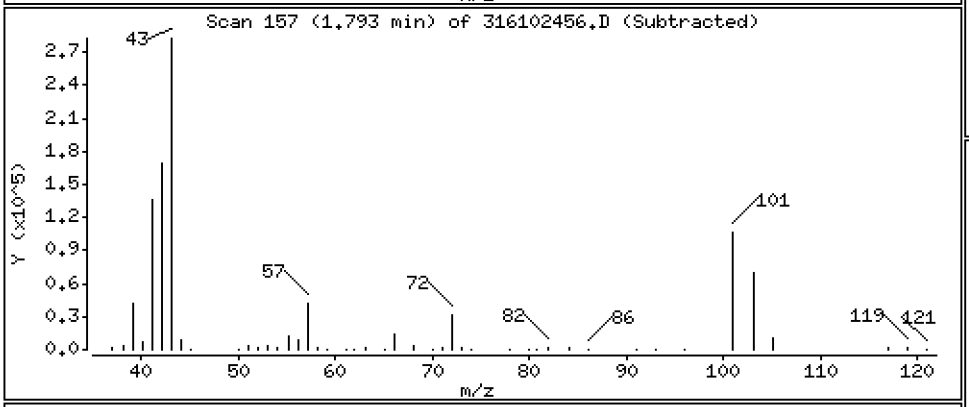
Sample Info: 1236;;1;1;3;;;

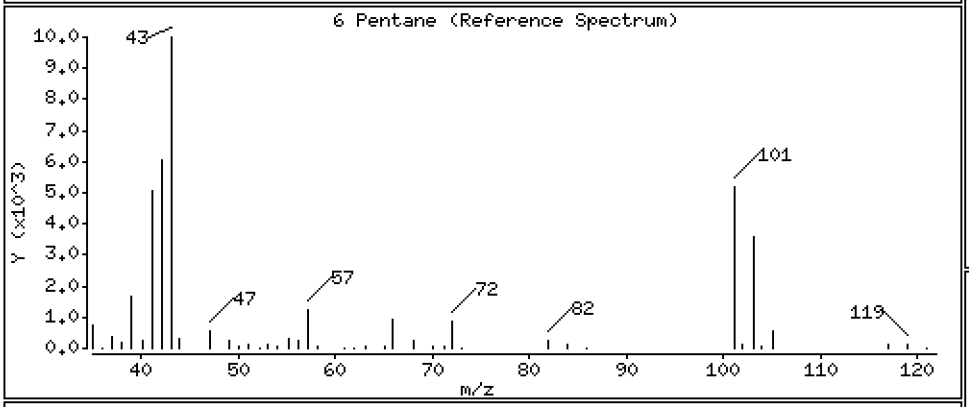
Purge Volume: 5.0 Operator: CJG

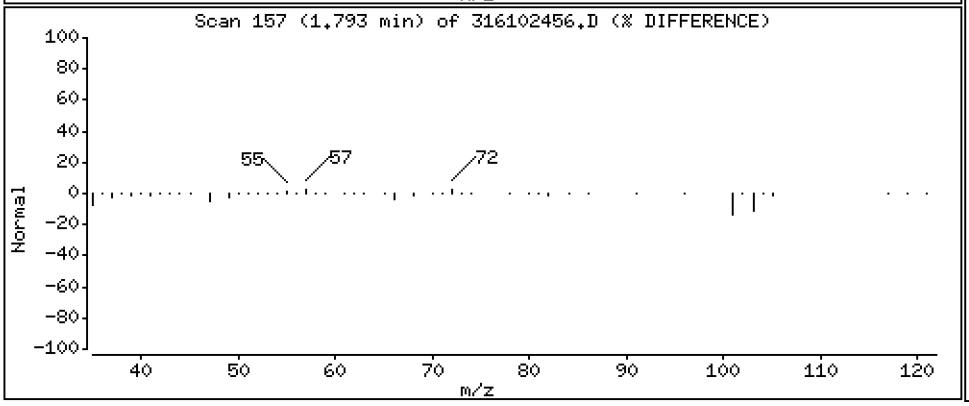
Column phase: DB-VRX Column diameter: 0.25

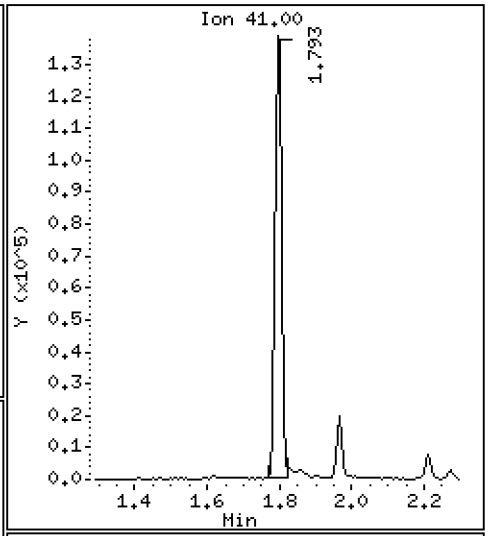
6 Pentane Concentration: 23.1506 ug/L

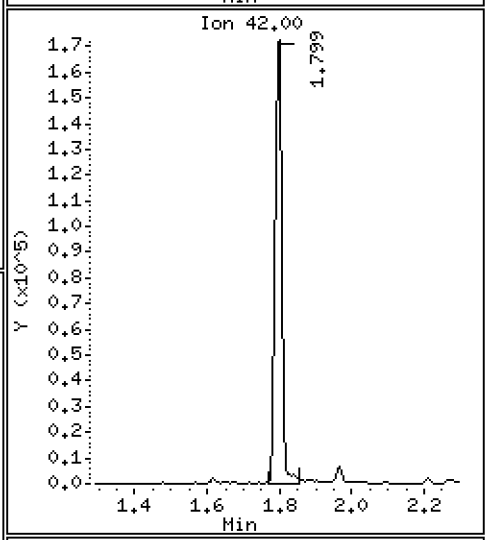


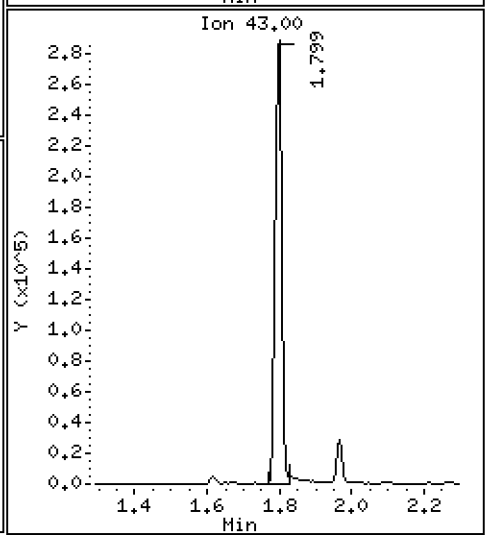












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 15

Date : 25-OCT-2016 00:30

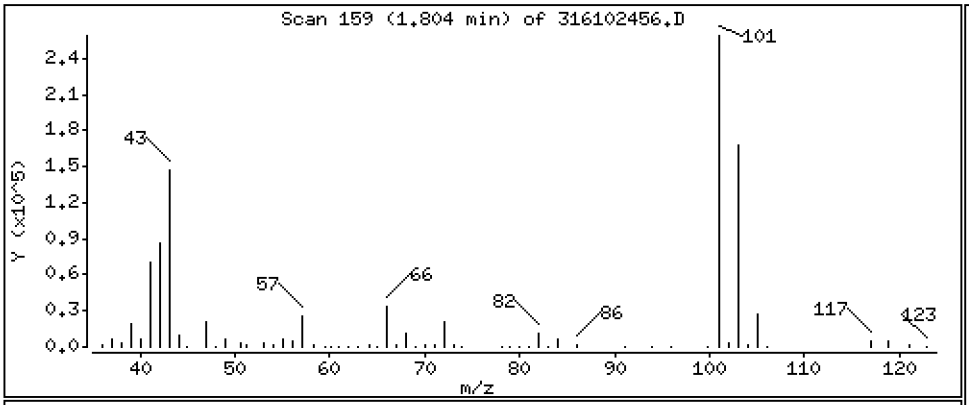
Client ID: Instrument: ms03.i

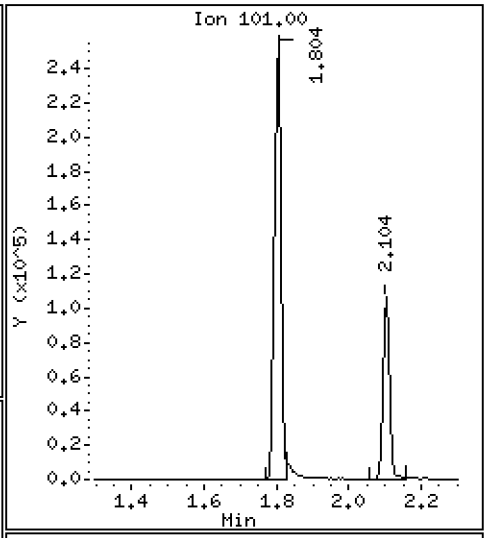
Sample Info: 1236;;1;1;3;;;

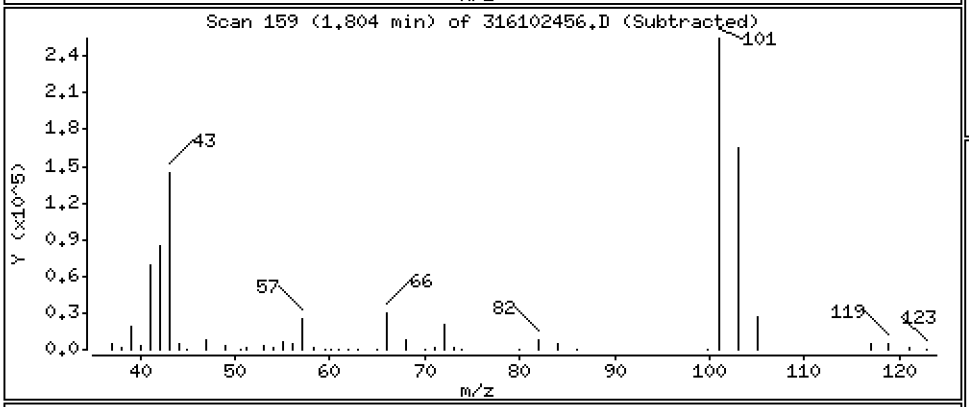
Purge Volume: 5.0 Operator: CJG

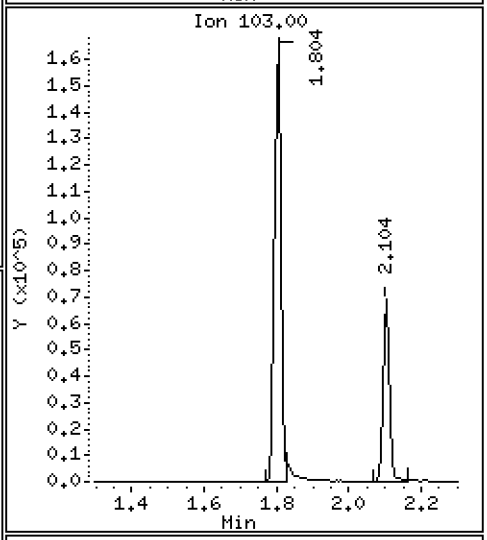
Column phase: DB-VRX Column diameter: 0.25

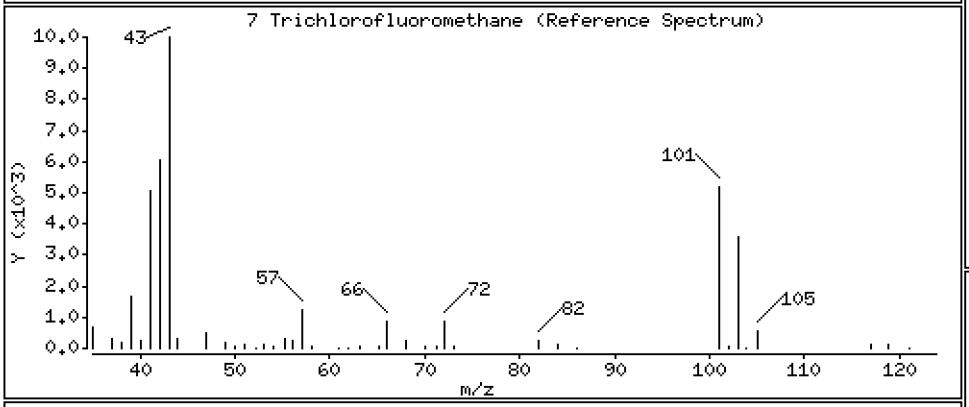
7 Trichlorofluoromethane Concentration: 22.1313 ug/L

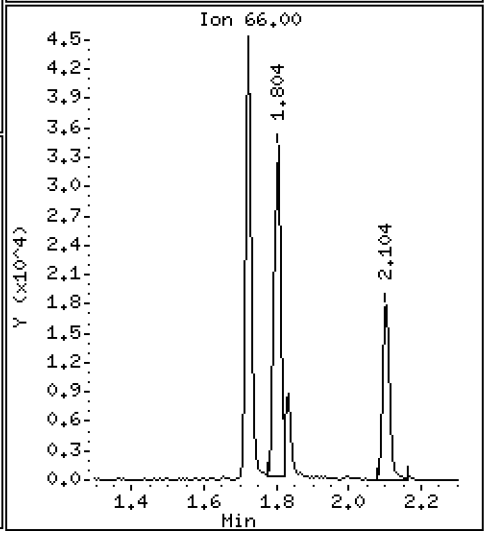


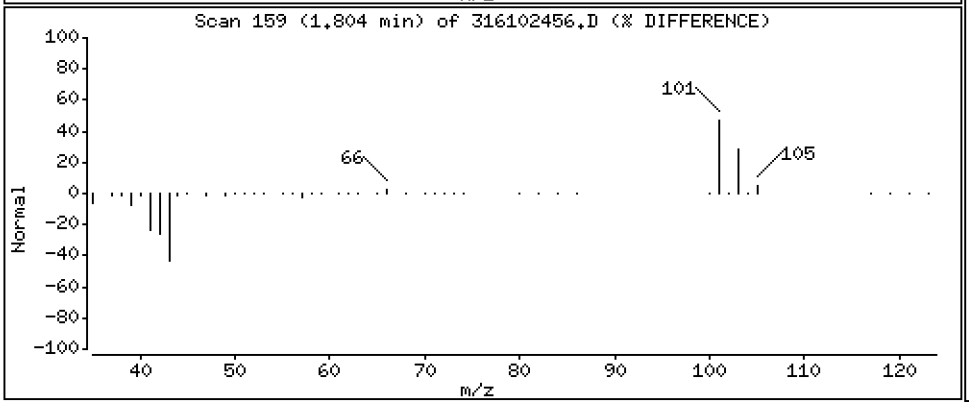












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 16

Date : 25-OCT-2016 00:30

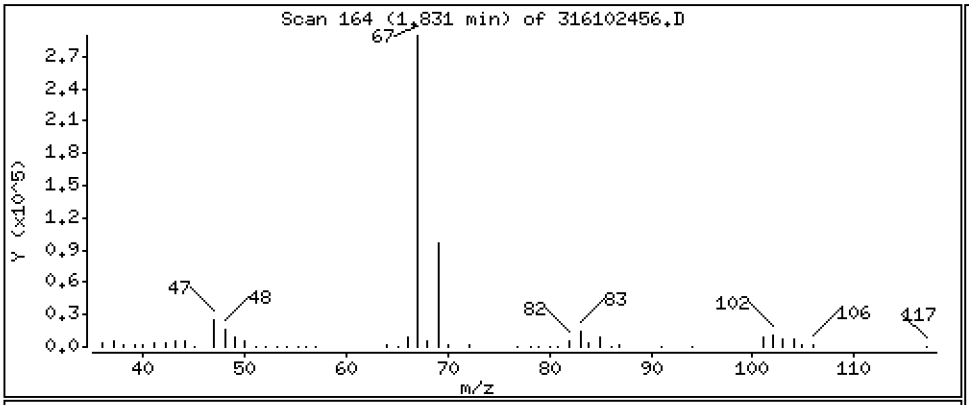
Client ID: Instrument: ms03.i

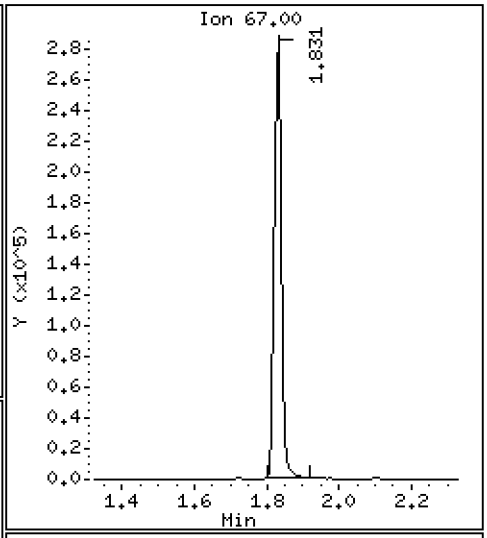
Sample Info: 1236;;1;1;3;;;

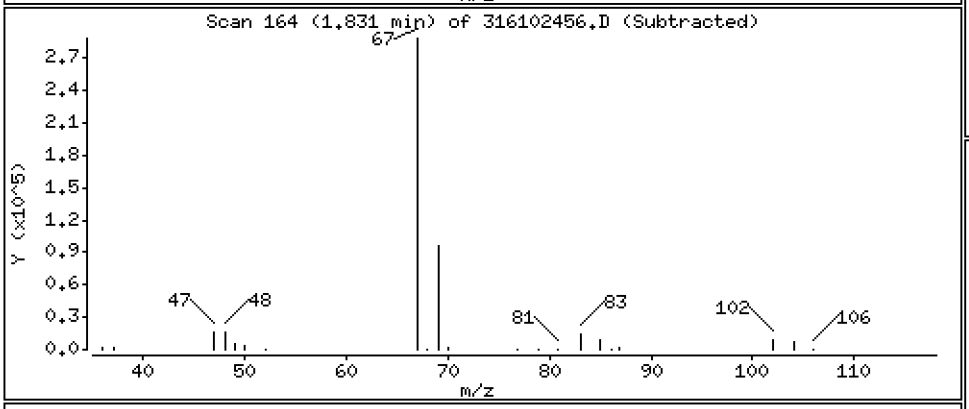
Purge Volume: 5.0 Operator: CJG

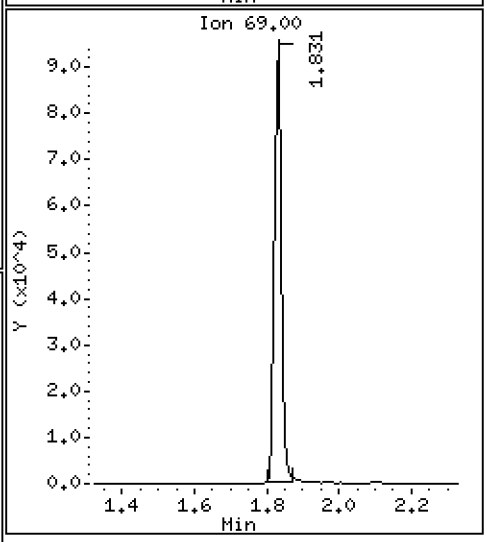
Column phase: DB-VRX Column diameter: 0.25

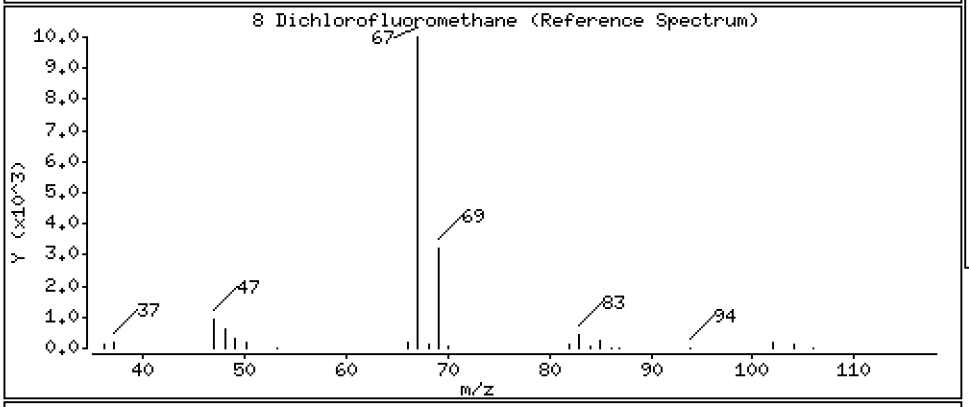
8 Dichlorofluoromethane Concentration: 20.8170 ug/L

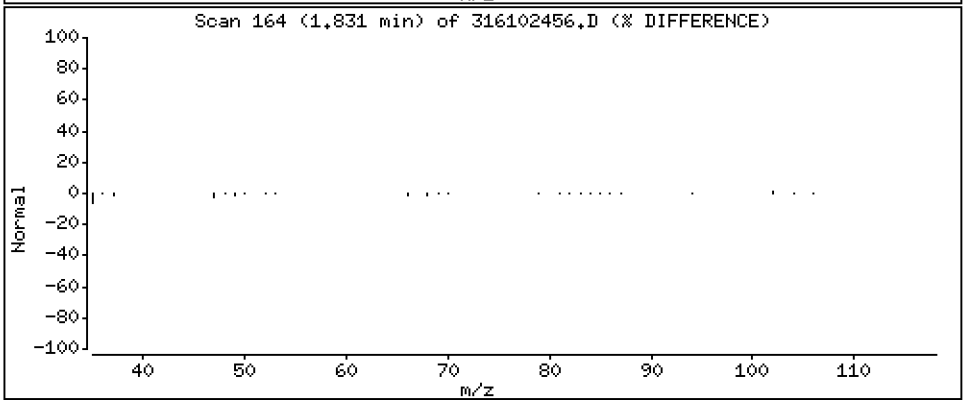












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 17

Date : 25-OCT-2016 00:30

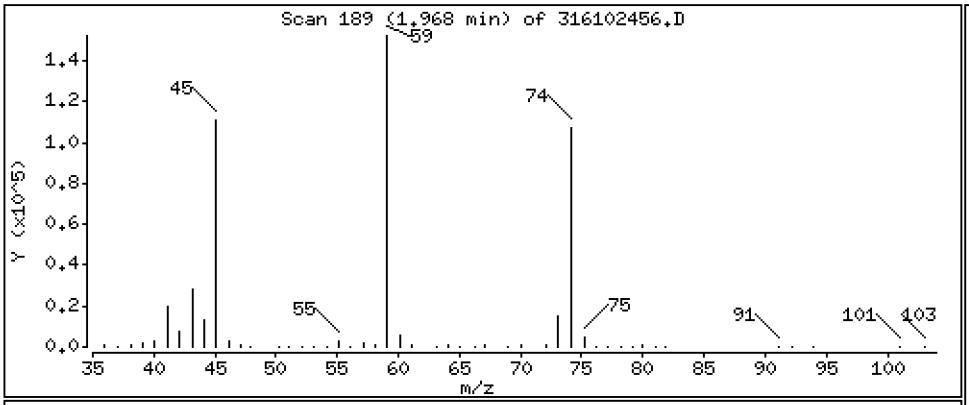
Client ID: Instrument: ms03.i

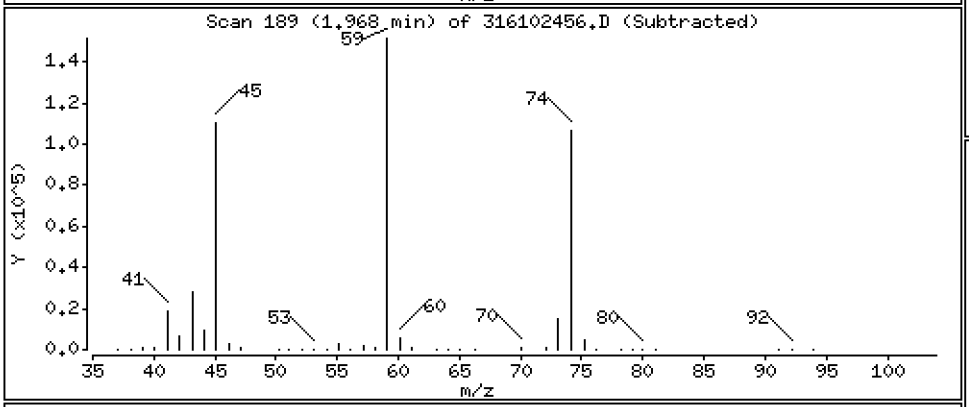
Sample Info: 1236;;1;1;3;;;

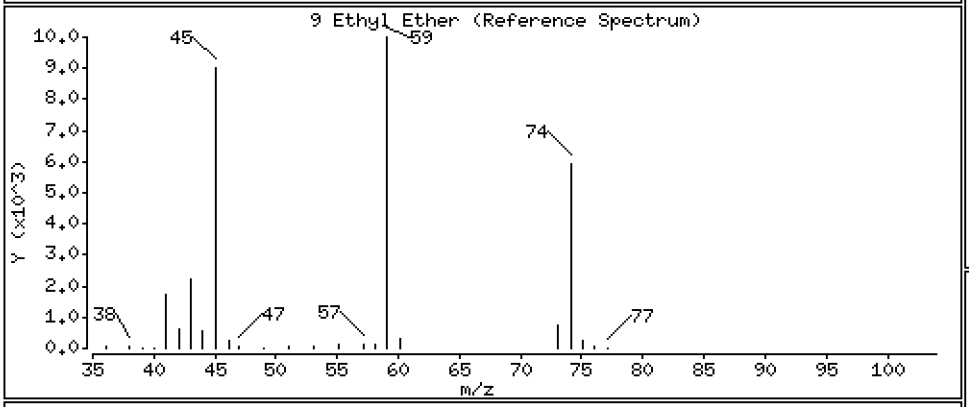
Purge Volume: 5.0 Operator: CJG

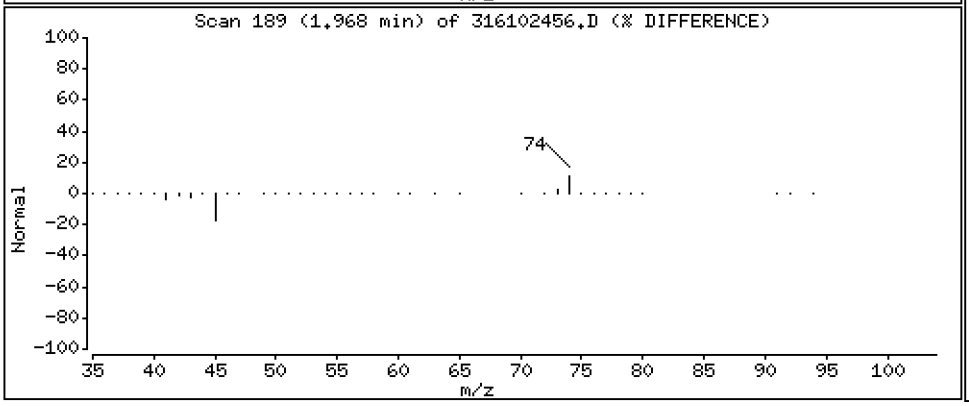
Column phase: DB-VRX Column diameter: 0.25

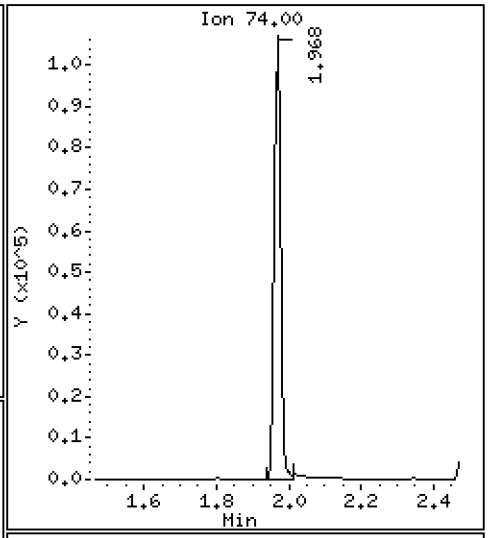
9 Ethyl Ether Concentration: 20.3484 ug/L

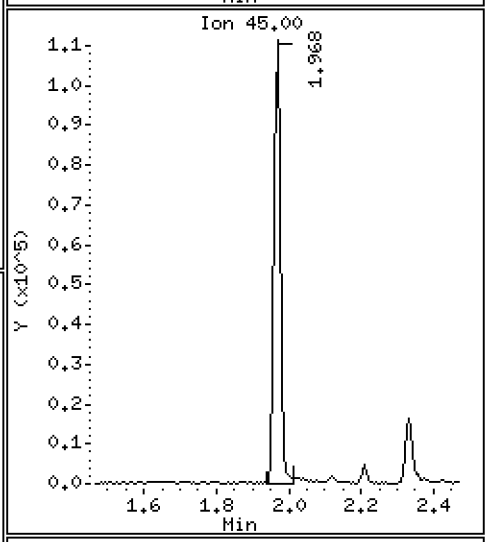


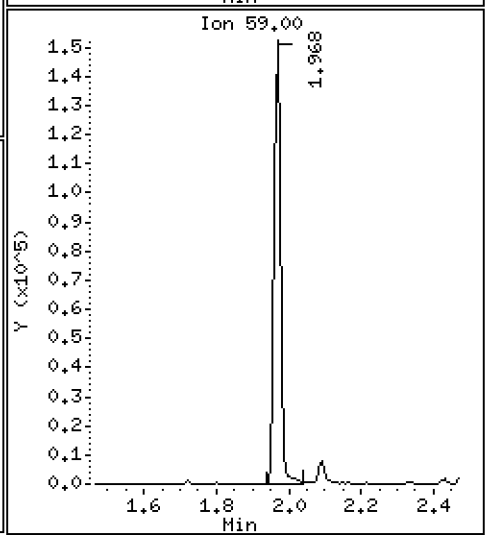












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 18

Date : 25-OCT-2016 00:30

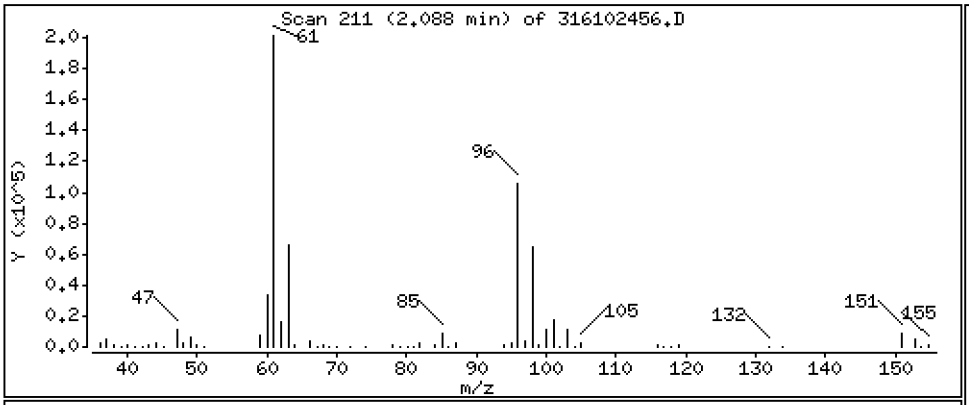
Client ID: Instrument: ms03.i

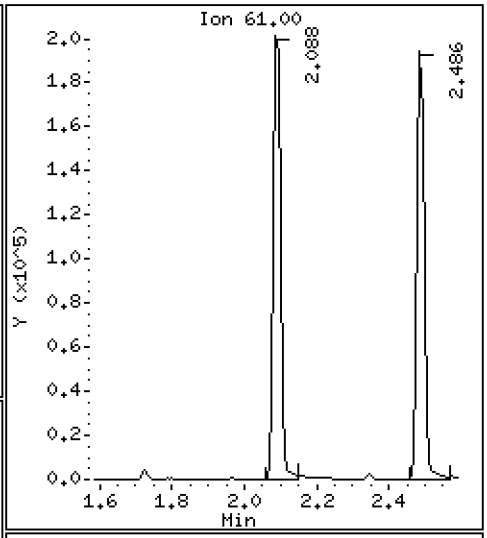
Sample Info: 1236;;1;1;3;;;

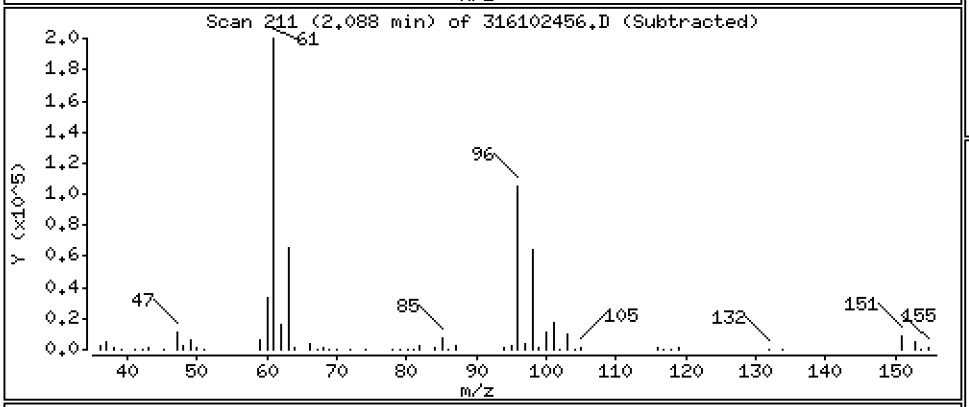
Purge Volume: 5.0 Operator: CJG

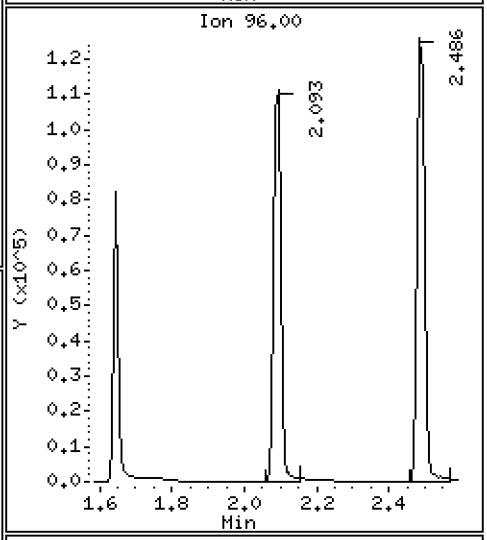
Column phase: DB-VRX Column diameter: 0.25

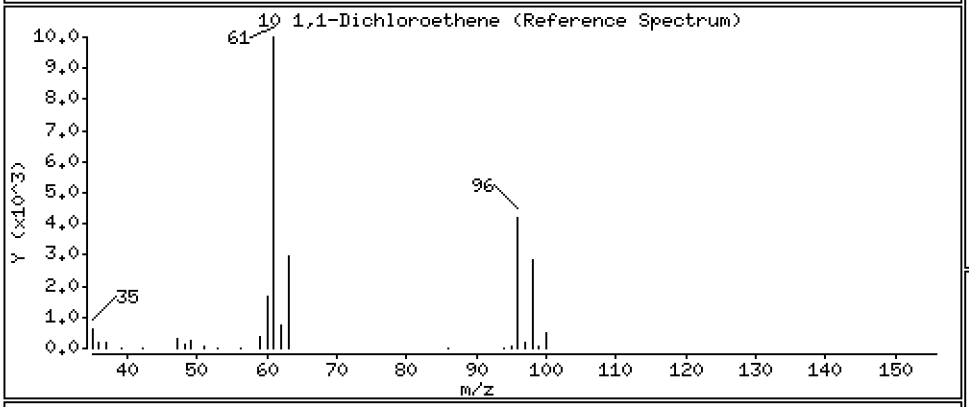
10 1,1-Dichloroethene Concentration: 20.8694 ug/L

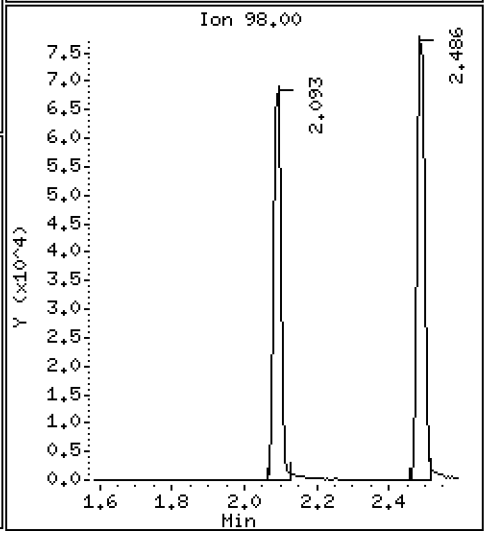


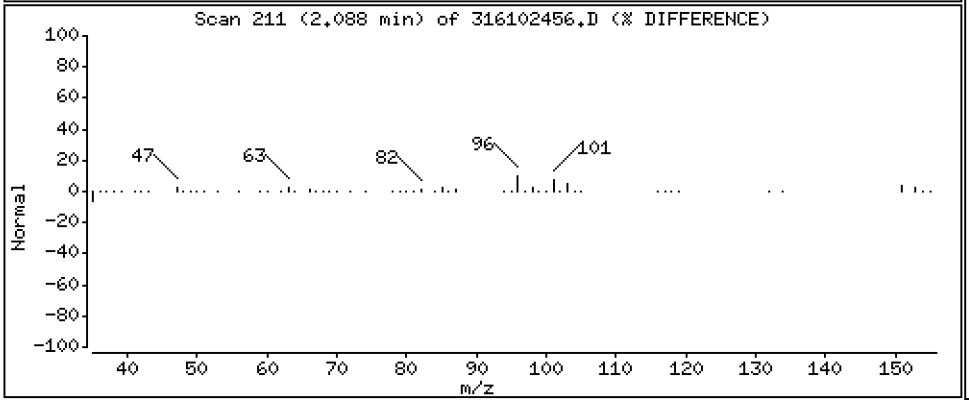












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 19

Date : 25-OCT-2016 00:30

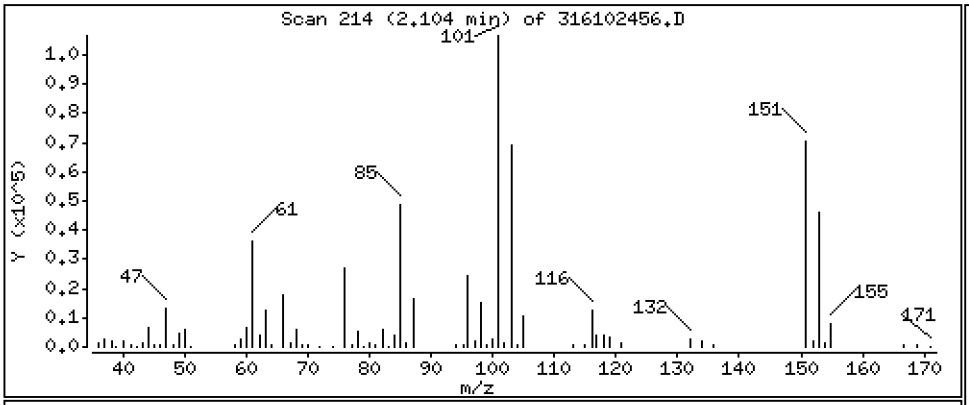
Client ID: Instrument: ms03.i

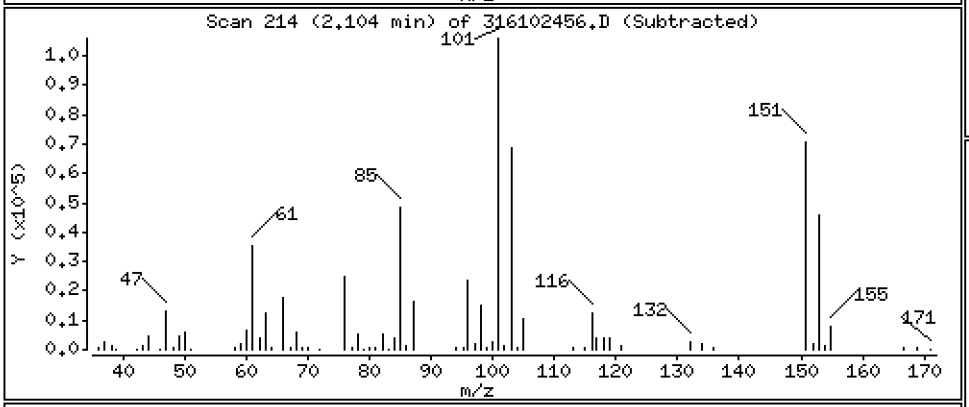
Sample Info: 1236;;1;1;3;;;

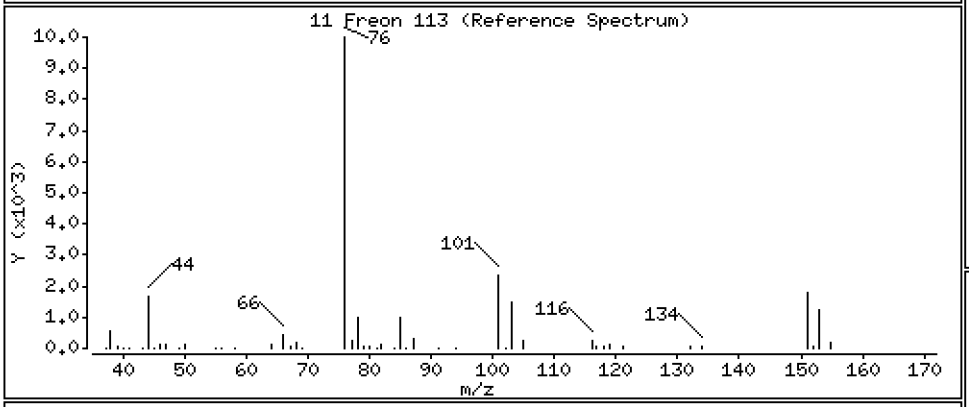
Purge Volume: 5.0 Operator: CJG

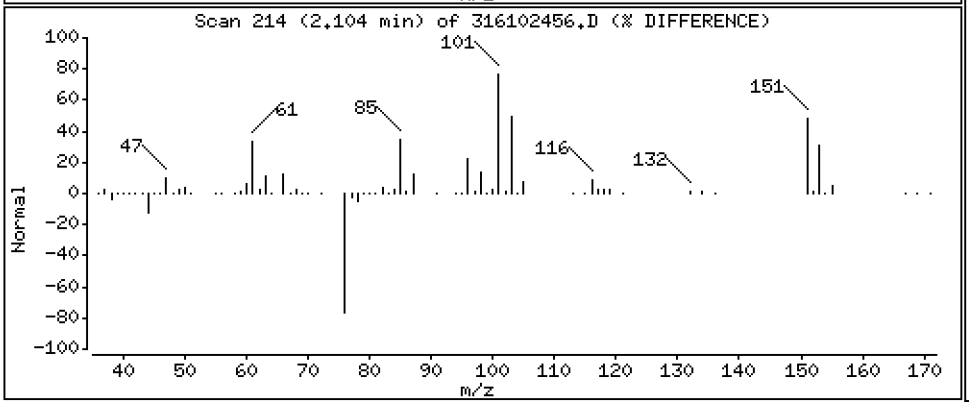
Column phase: DB-VRX Column diameter: 0.25

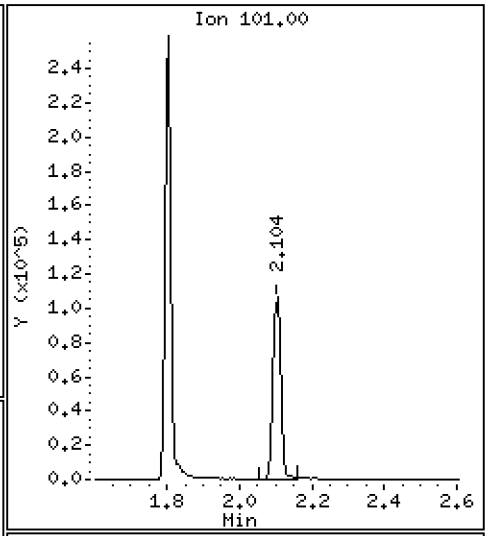
11 Freon 113 Concentration: 22.7523 ug/L

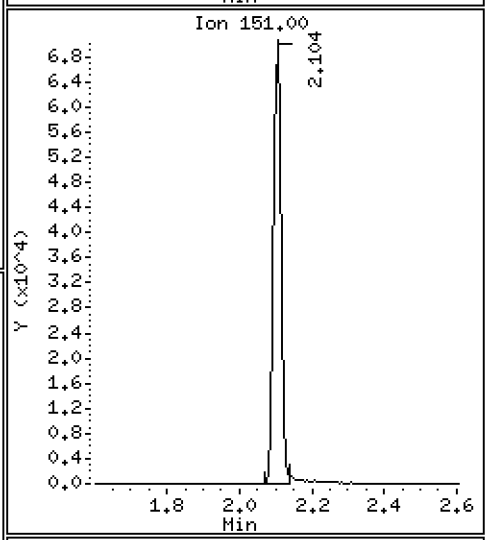


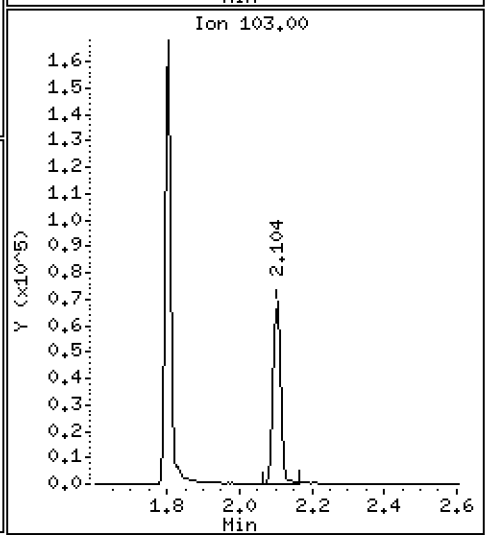












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 20

Date : 25-OCT-2016 00:30

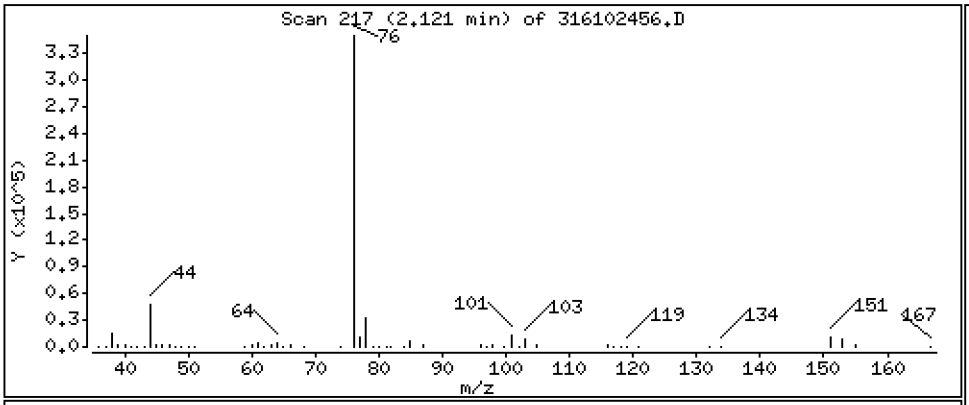
Client ID: Instrument: ms03.i

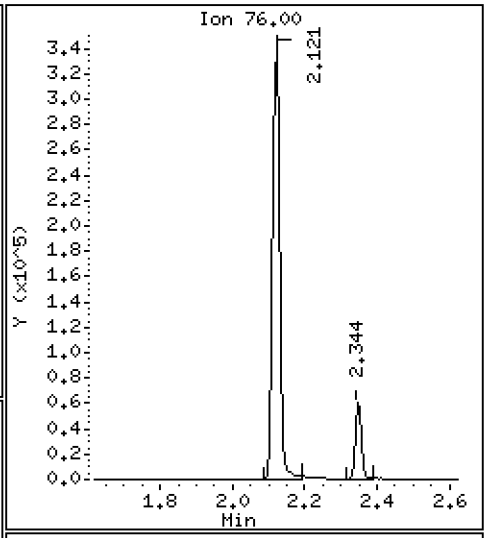
Sample Info: 1236;;1;1;3;;;

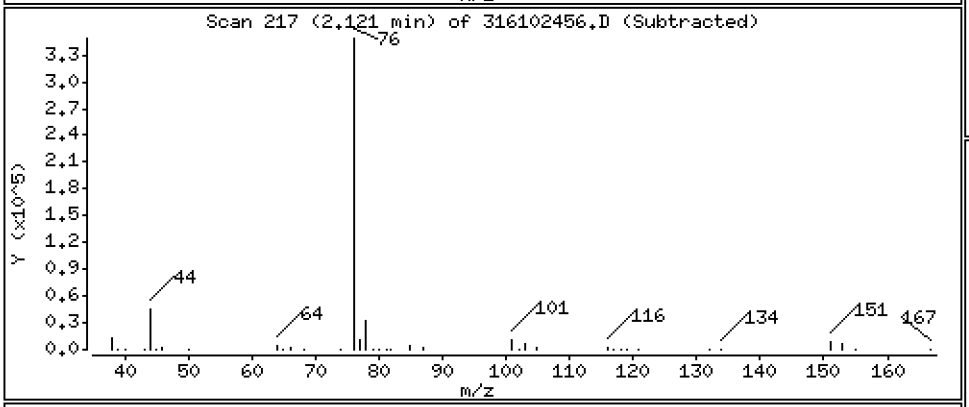
Purge Volume: 5.0 Operator: CJG

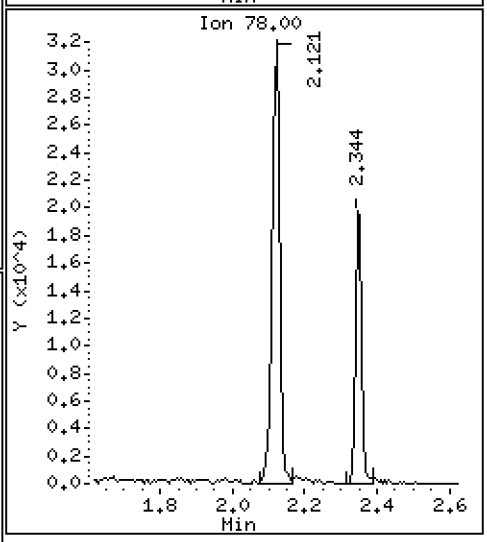
Column phase: DB-VRX Column diameter: 0.25

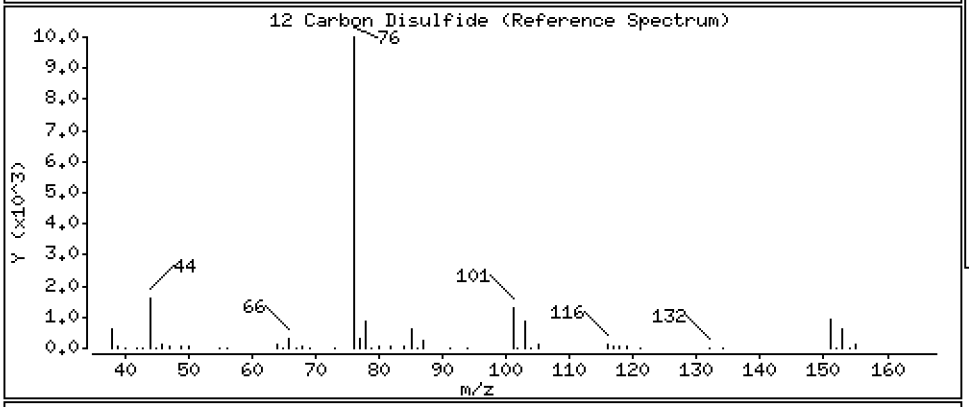
12 Carbon Disulfide Concentration: 19.2877 ug/L

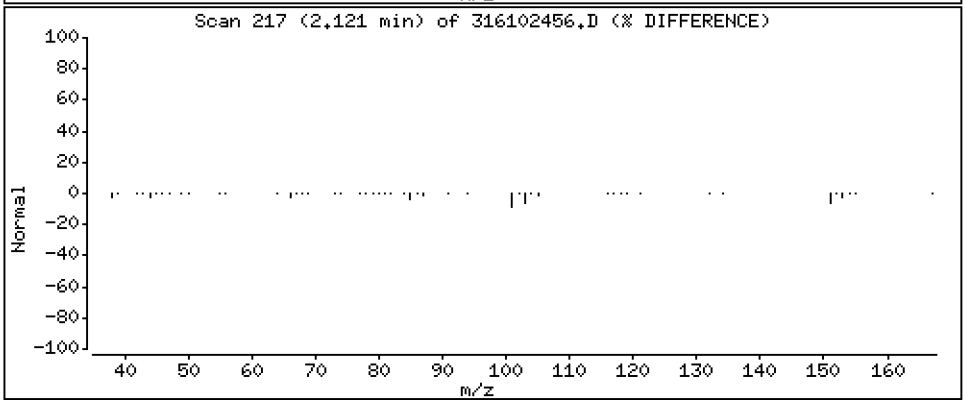












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 21

Date : 25-OCT-2016 00:30

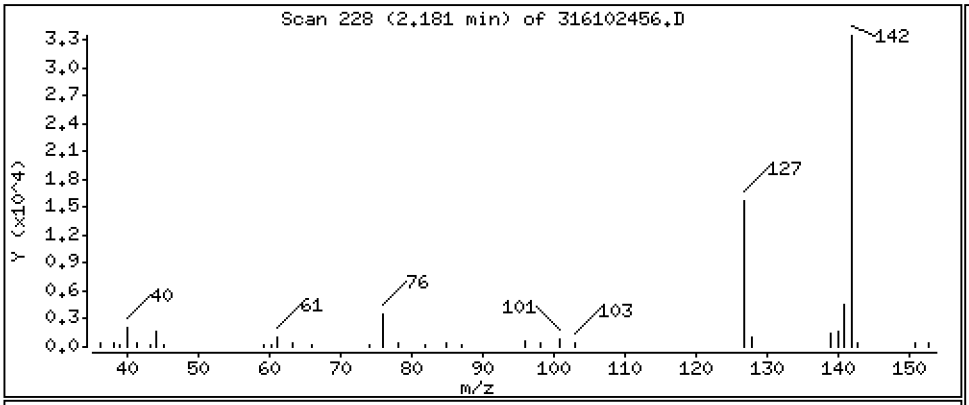
Client ID: Instrument: ms03.i

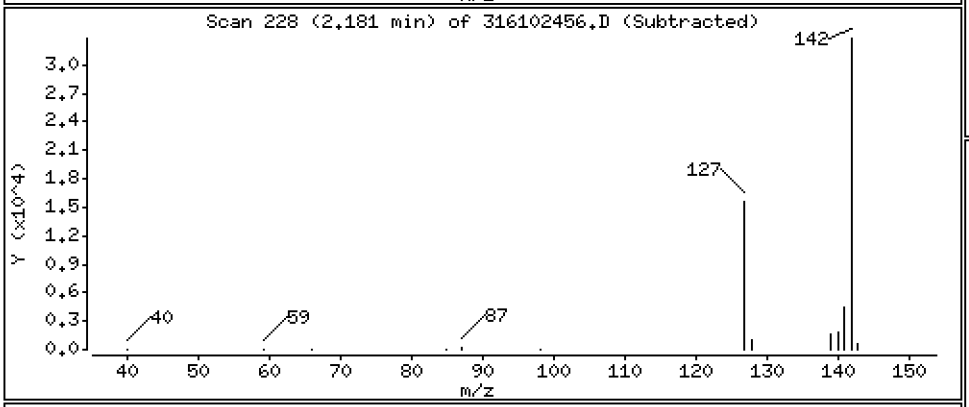
Sample Info: 1236;;1;1;3;;;

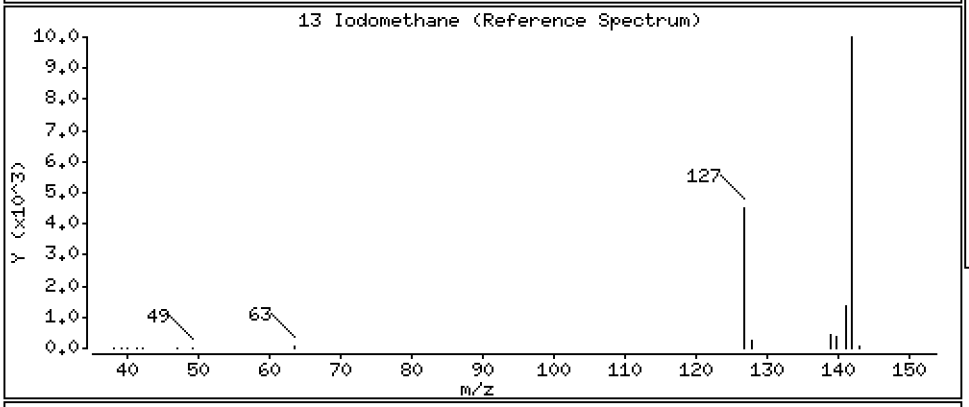
Purge Volume: 5.0 Operator: CJG

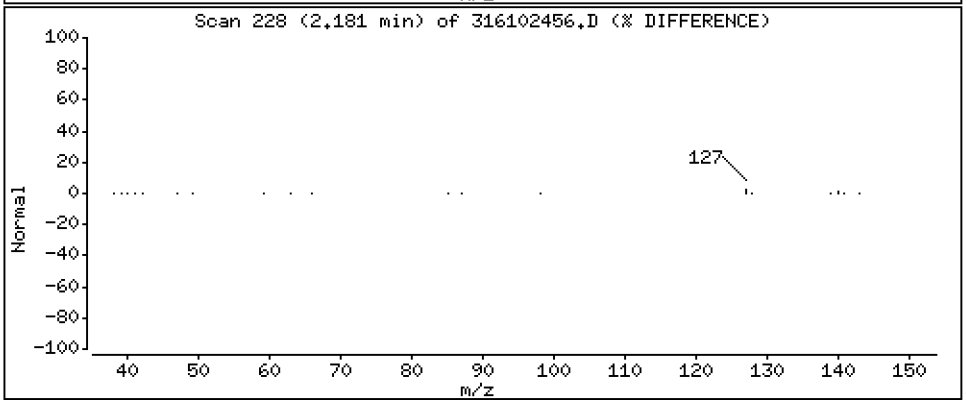
Column phase: DB-VRX Column diameter: 0.25

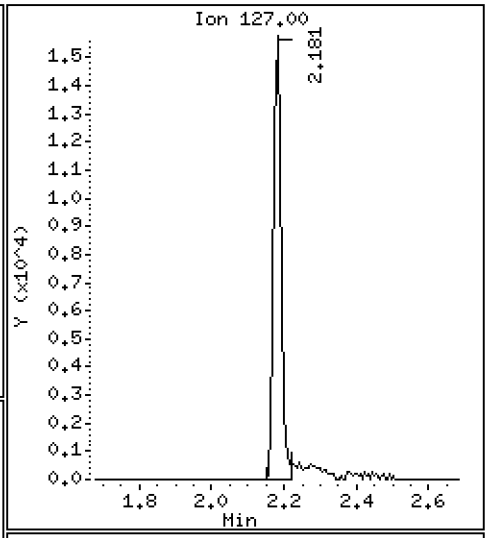
13 Iodomethane Concentration: 16.4160 ug/L

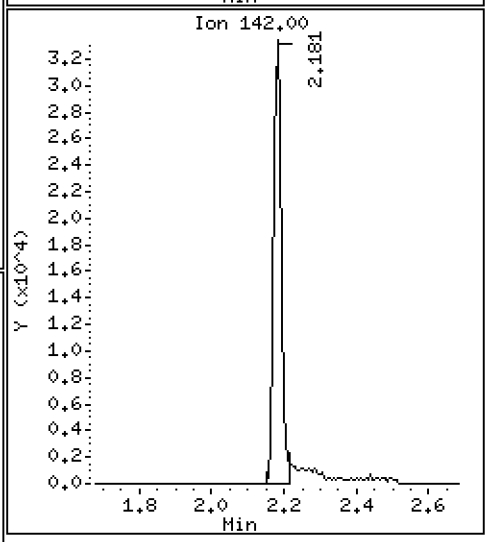












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 22

Date : 25-OCT-2016 00:30

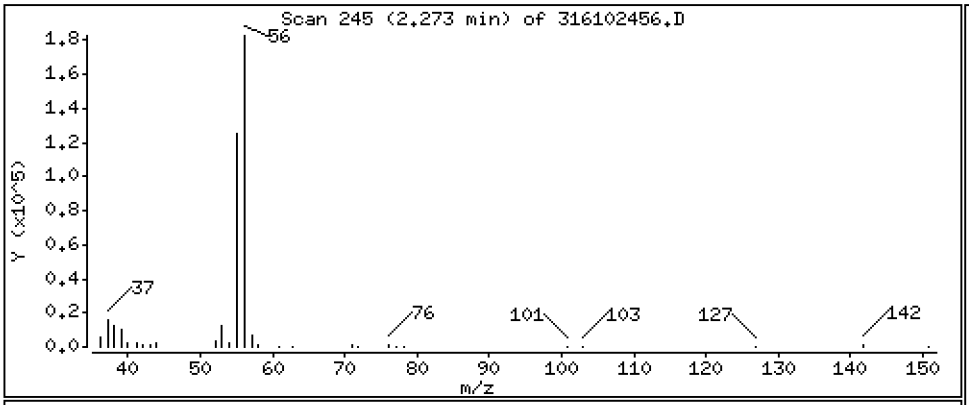
Client ID: Instrument: ms03.i

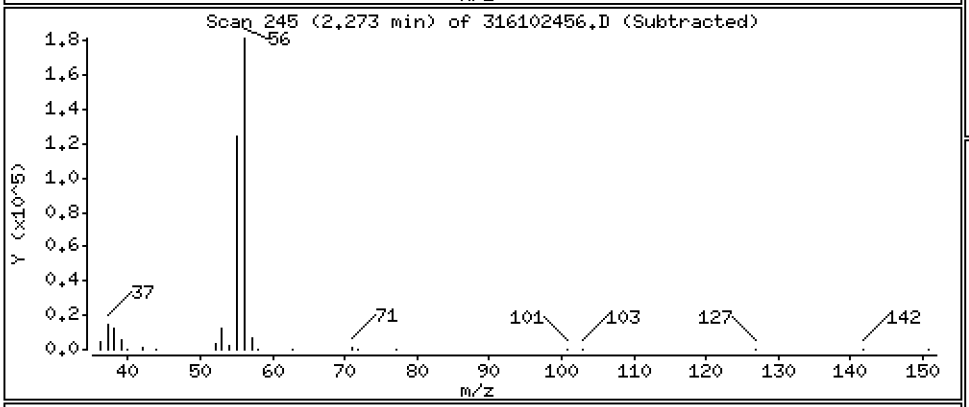
Sample Info: 1236;;1;1;3;;;

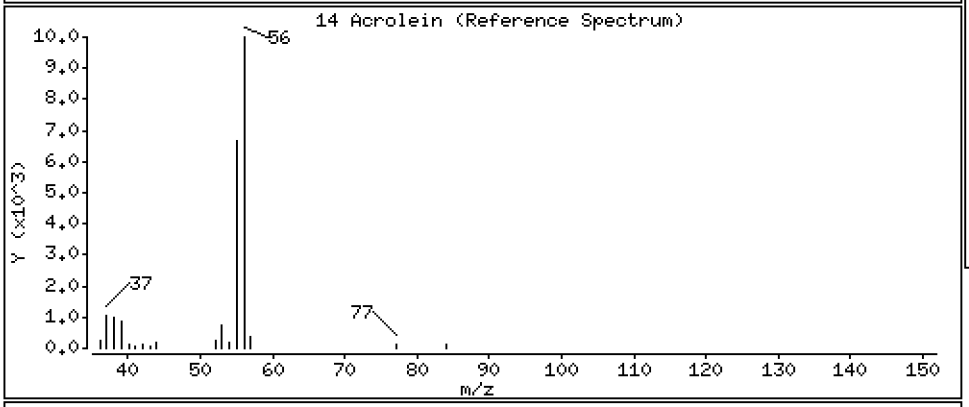
Purge Volume: 5.0 Operator: CJG

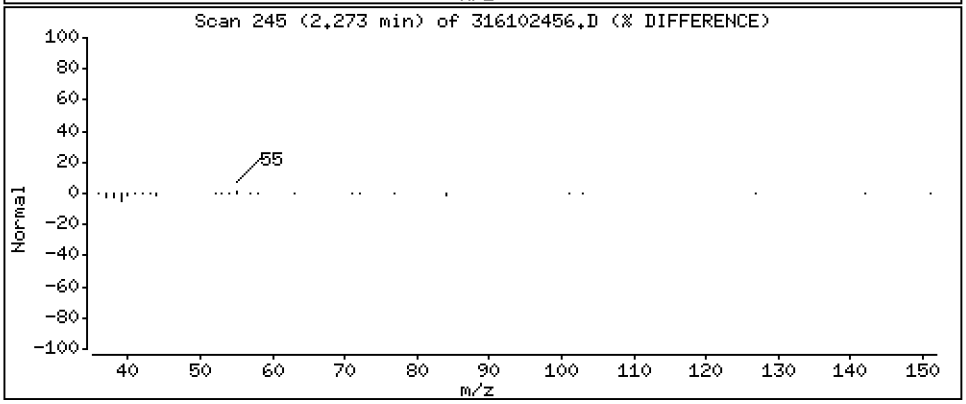
Column phase: DB-VRX Column diameter: 0.25

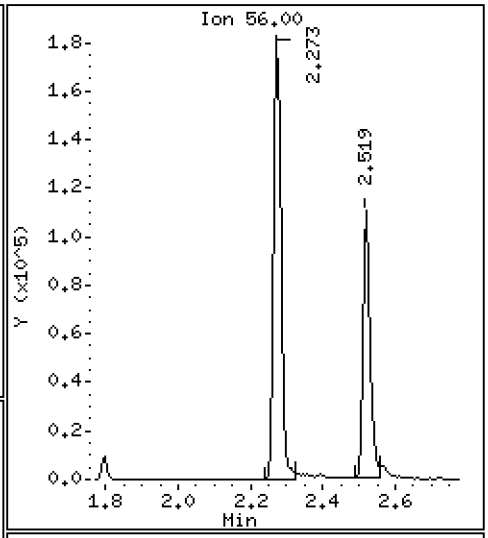
14 Acrolein Concentration: 191.614 ug/L

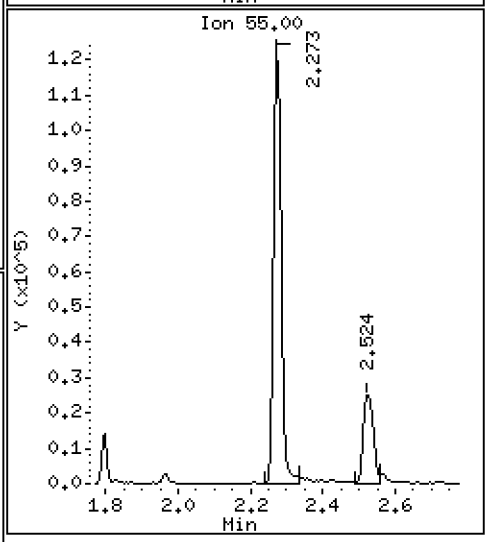












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 23

Date : 25-OCT-2016 00:30

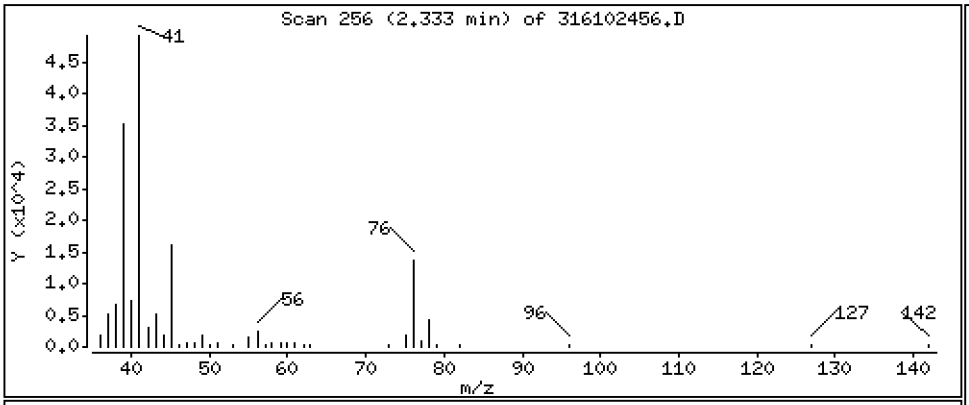
Client ID: Instrument: ms03.i

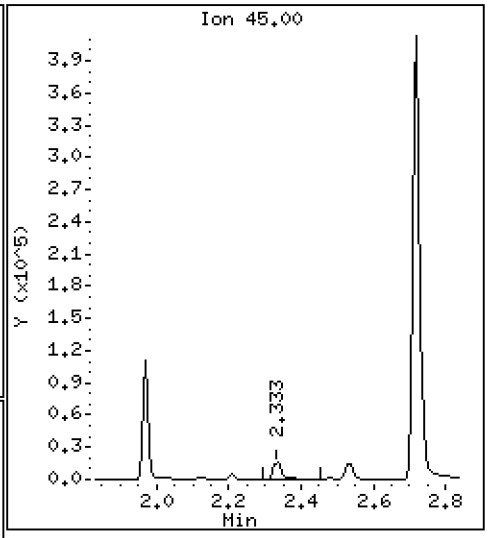
Sample Info: 1236;;1;1;3;;;

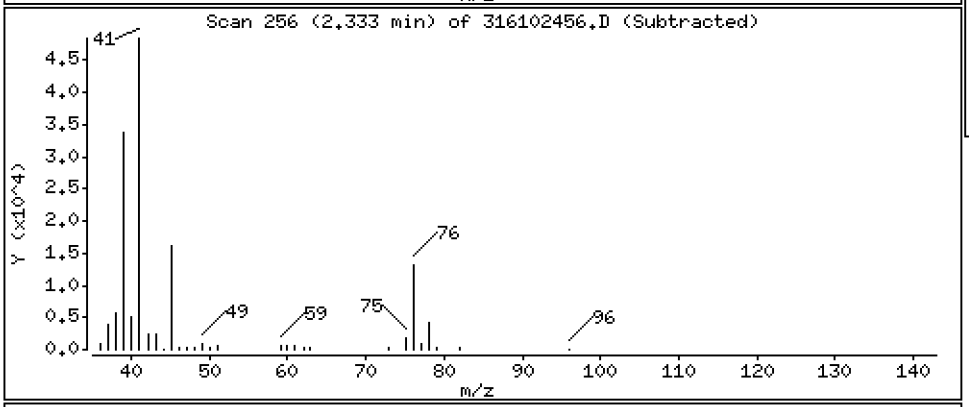
Purge Volume: 5.0 Operator: CJG

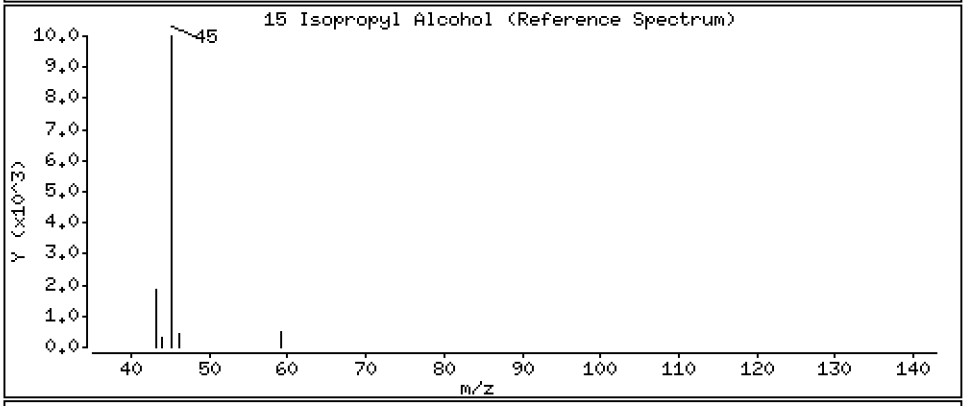
Column phase: DB-VRX Column diameter: 0.25

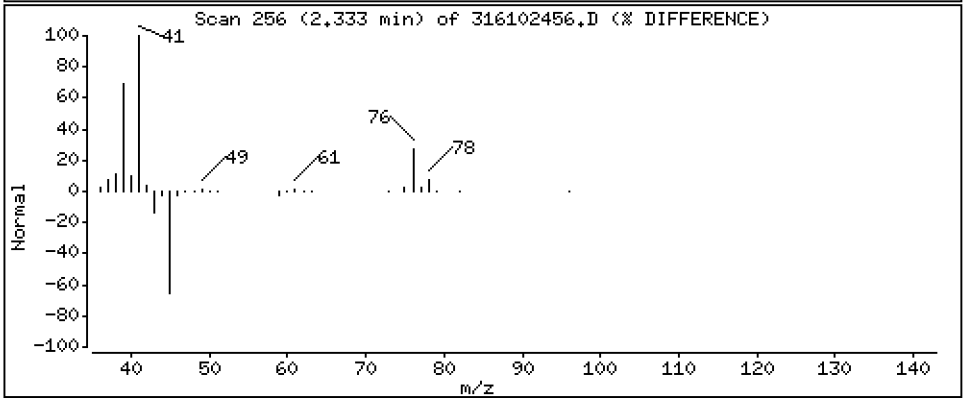
15 Isopropyl Alcohol Concentration: 102.011 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 24

Date : 25-OCT-2016 00:30

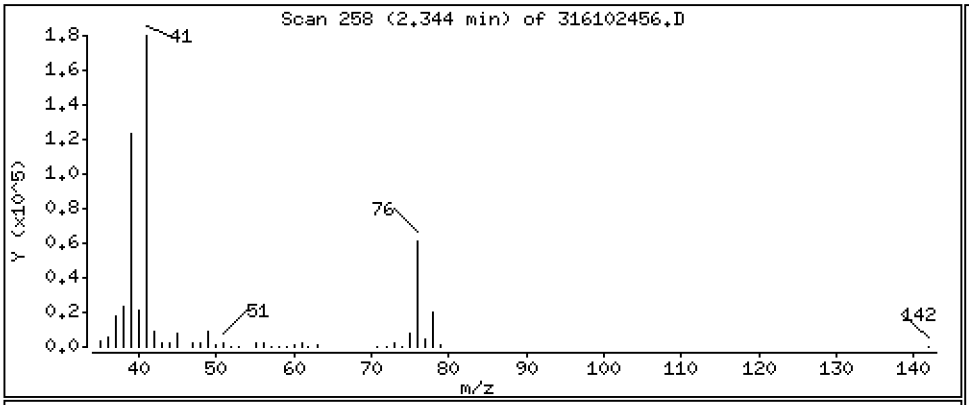
Client ID: Instrument: ms03.i

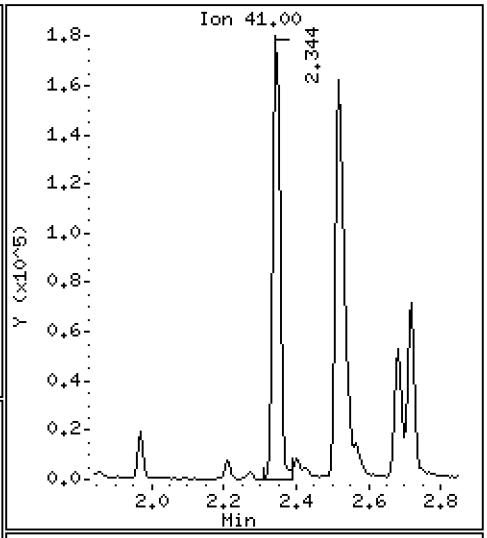
Sample Info: 1236;;1;1;3;;;

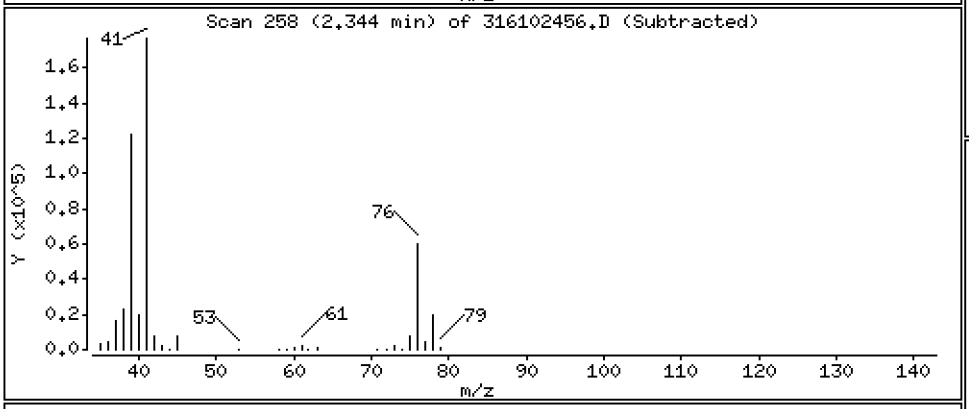
Purge Volume: 5.0 Operator: CJG

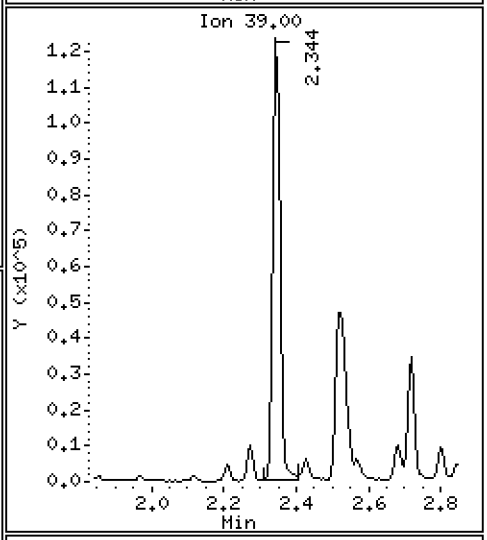
Column phase: DB-VRX Column diameter: 0.25

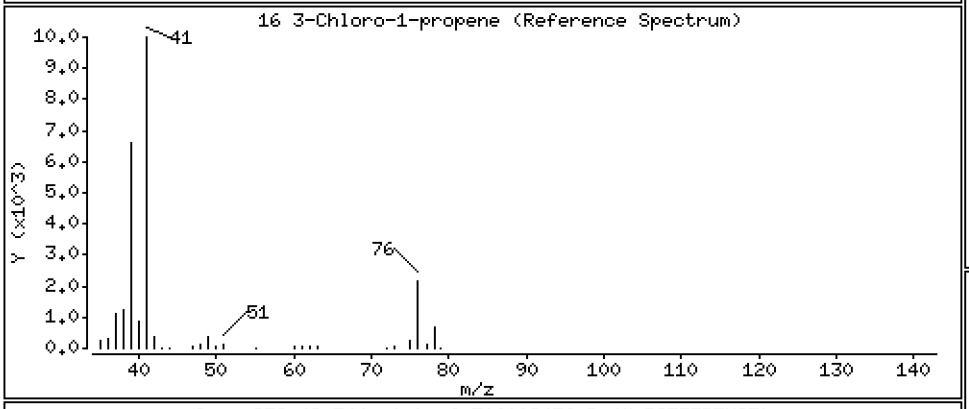
16 3-Chloro-1-propene Concentration: 19.3527 ug/L

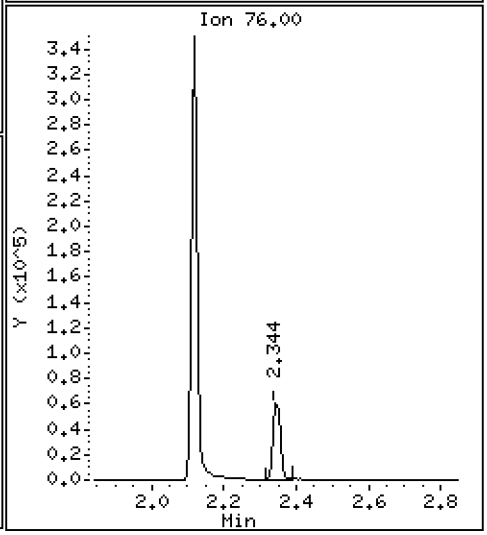


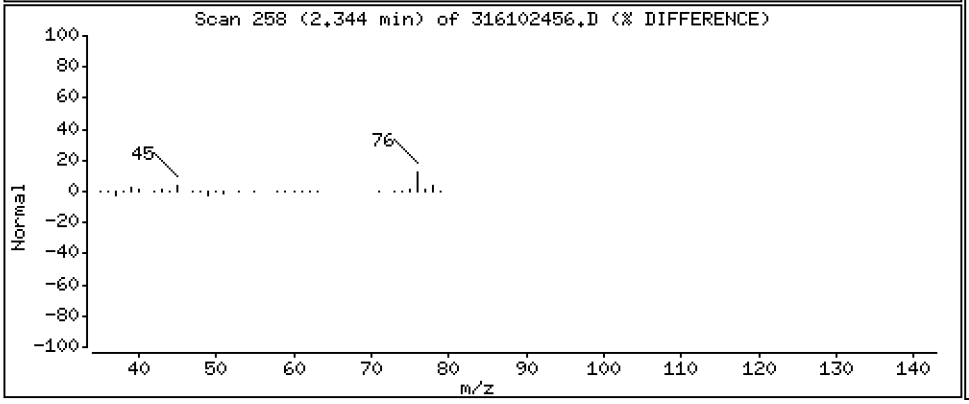












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 25

Date : 25-OCT-2016 00:30

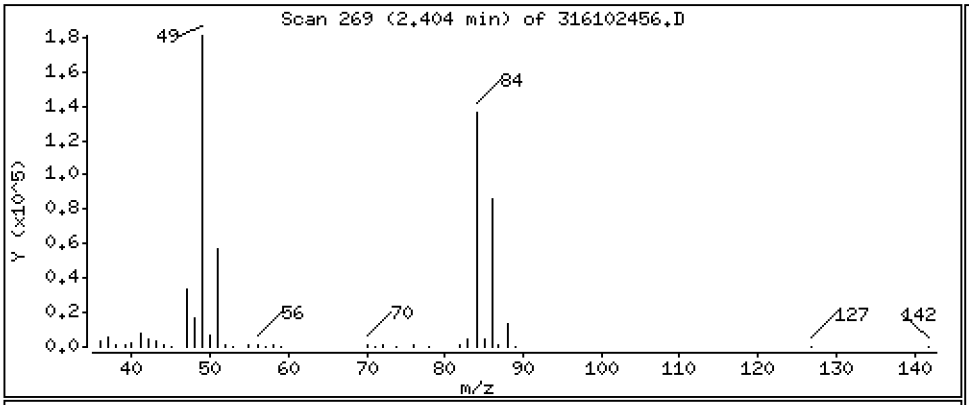
Client ID: Instrument: ms03.i

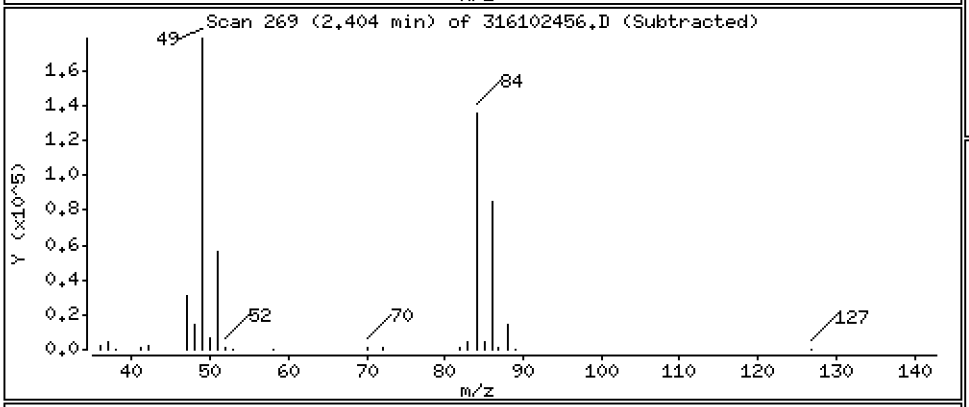
Sample Info: 1236;;1;1;3;;;

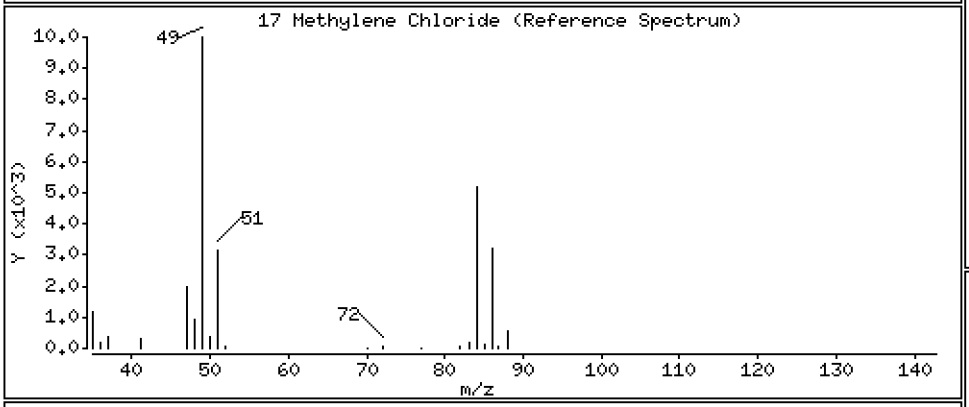
Purge Volume: 5.0 Operator: CJG

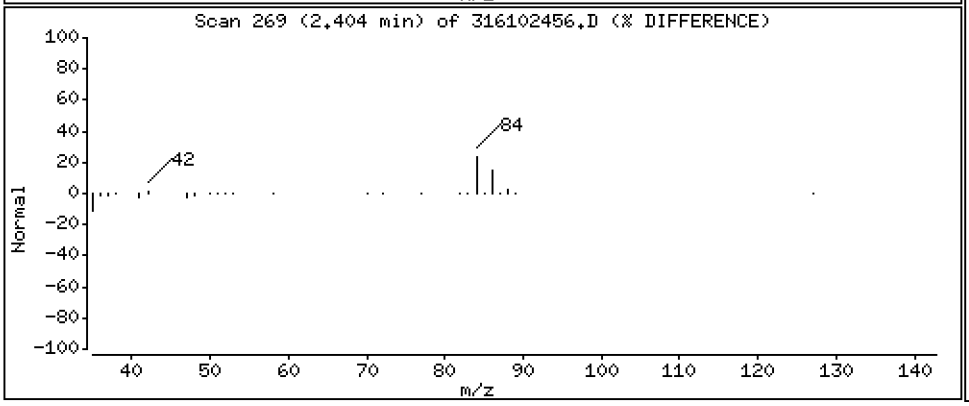
Column phase: DB-VRX Column diameter: 0.25

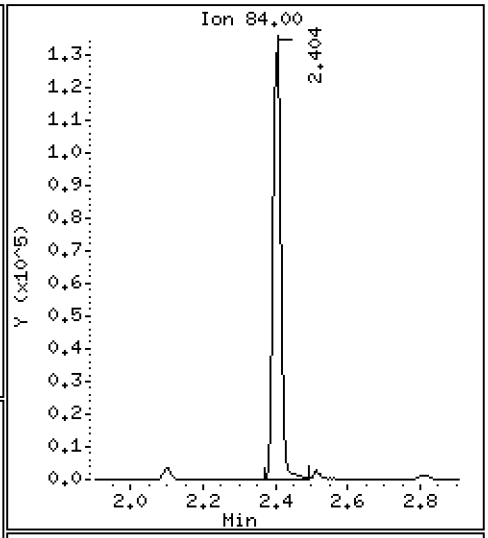
17 Methylene Chloride Concentration: 20.2759 ug/L

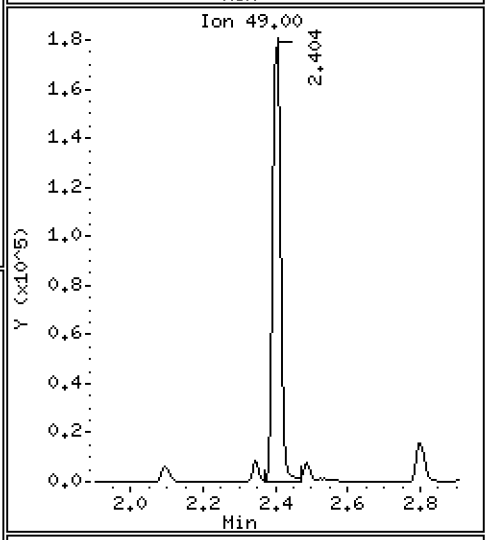


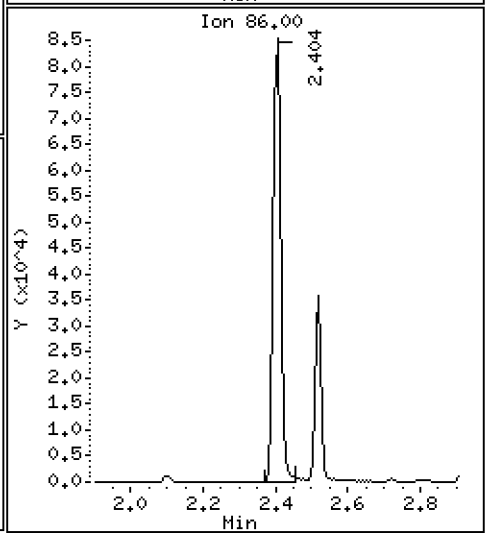












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 26

Date : 25-OCT-2016 00:30

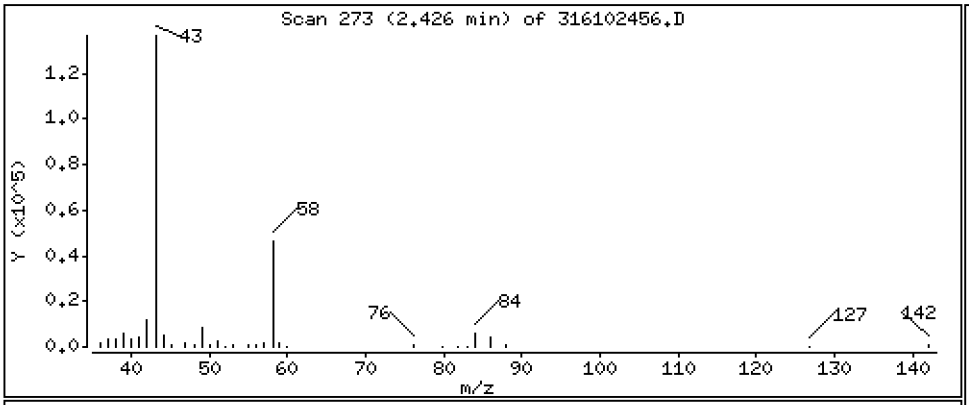
Client ID: Instrument: ms03.i

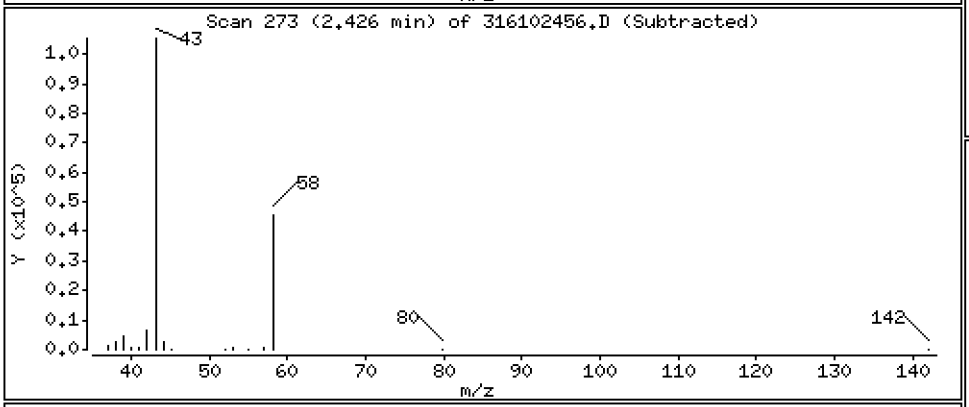
Sample Info: 1236;;1;1;3;;;

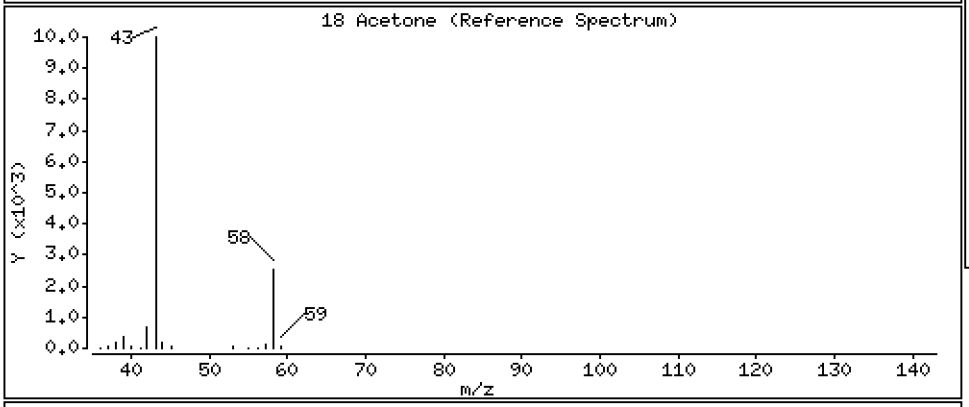
Purge Volume: 5.0 Operator: CJG

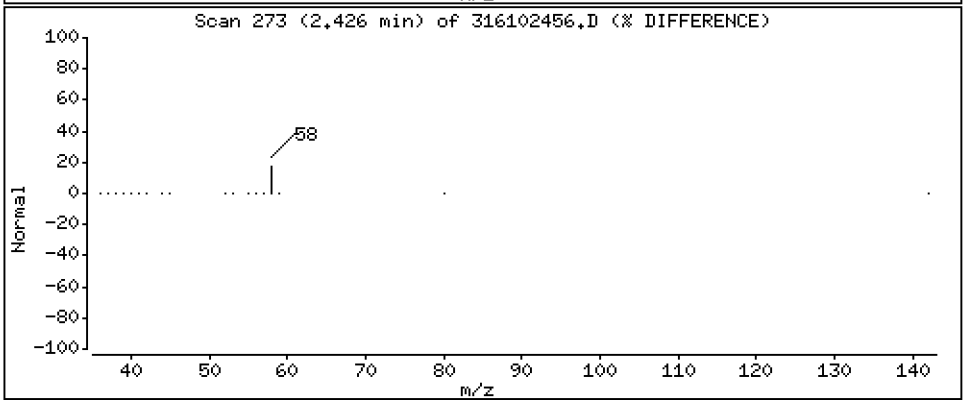
Column phase: DB-VRX Column diameter: 0.25

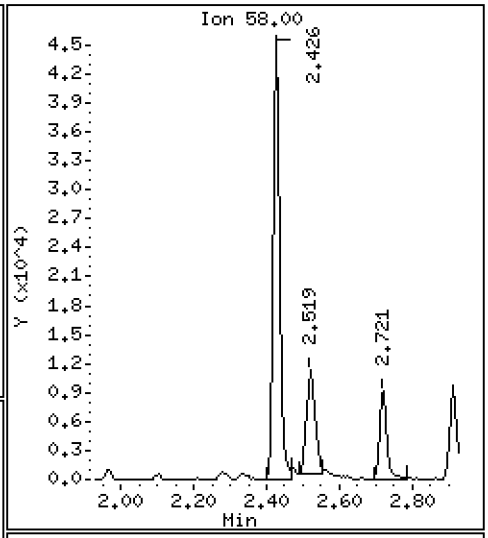
18 Acetone Concentration: 98.5274 ug/L

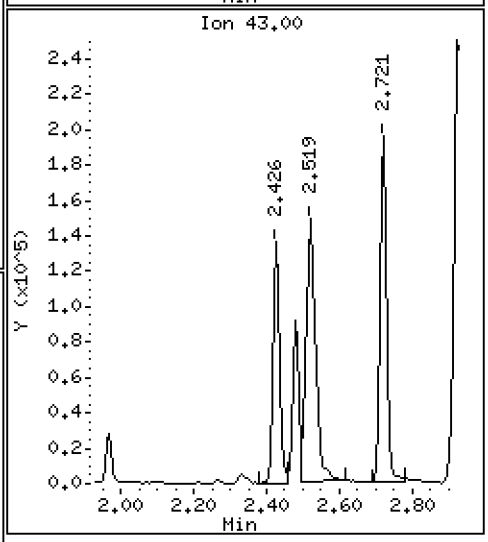












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 27

Date : 25-OCT-2016 00:30

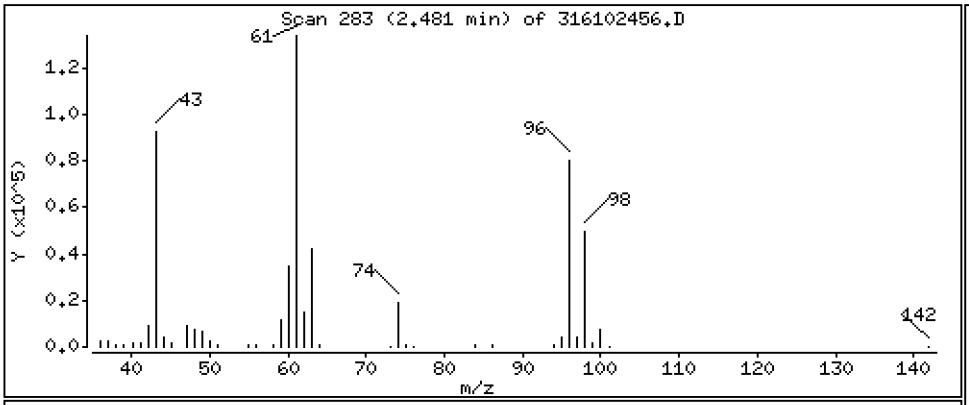
Client ID: Instrument: ms03.i

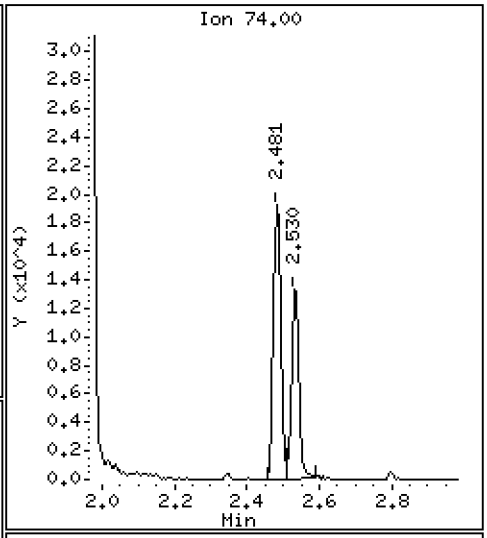
Sample Info: 1236;;1;1;3;;;

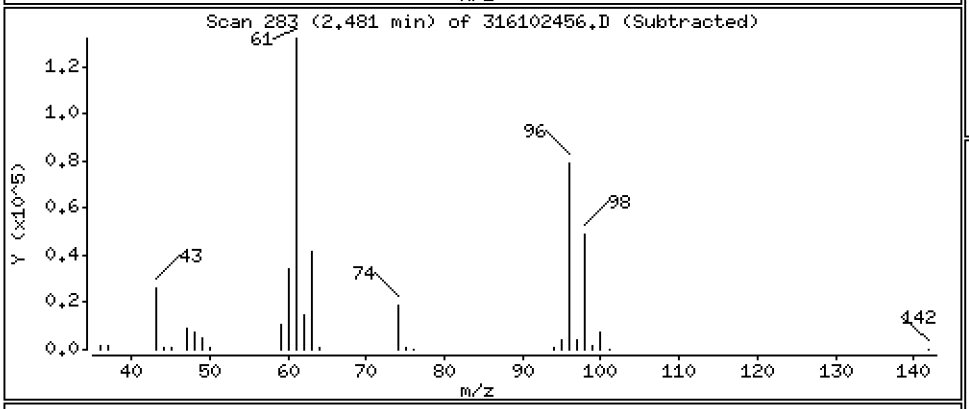
Purge Volume: 5.0 Operator: CJG

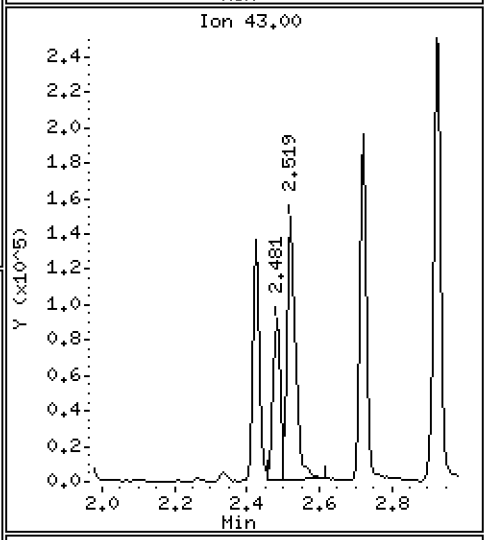
Column phase: DB-VRX Column diameter: 0.25

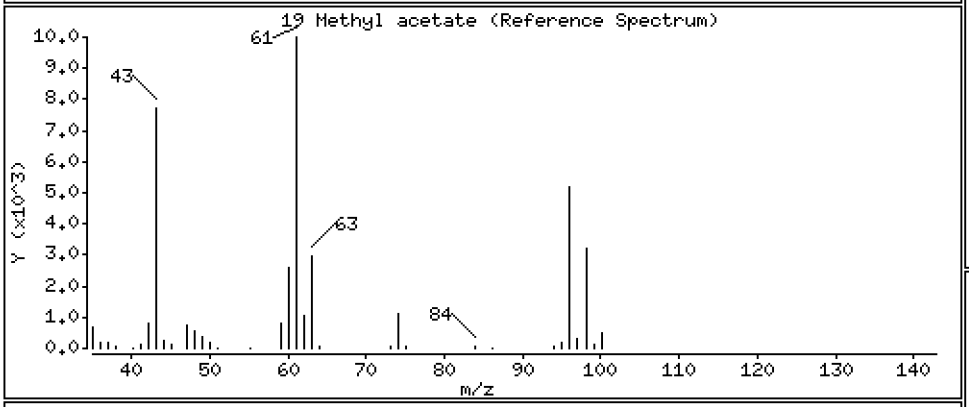
19 Methyl acetate Concentration: 19.6444 ug/L

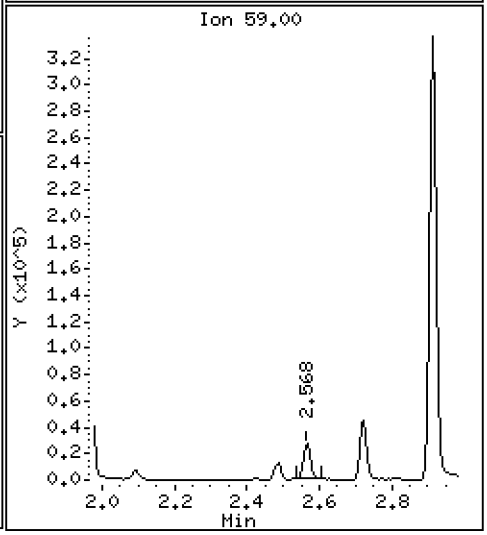


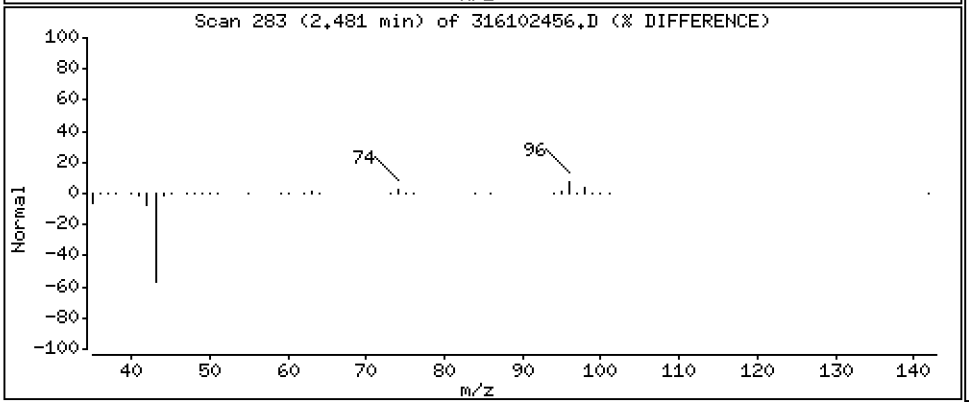












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 28

Date : 25-OCT-2016 00:30

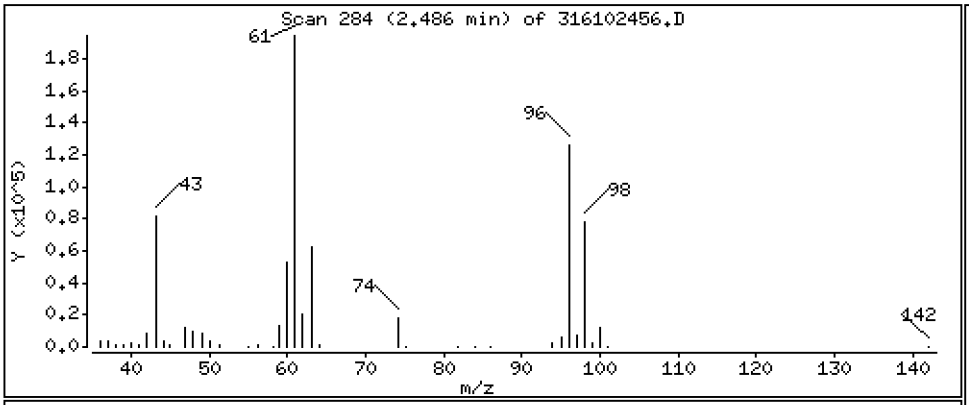
Client ID: Instrument: ms03.i

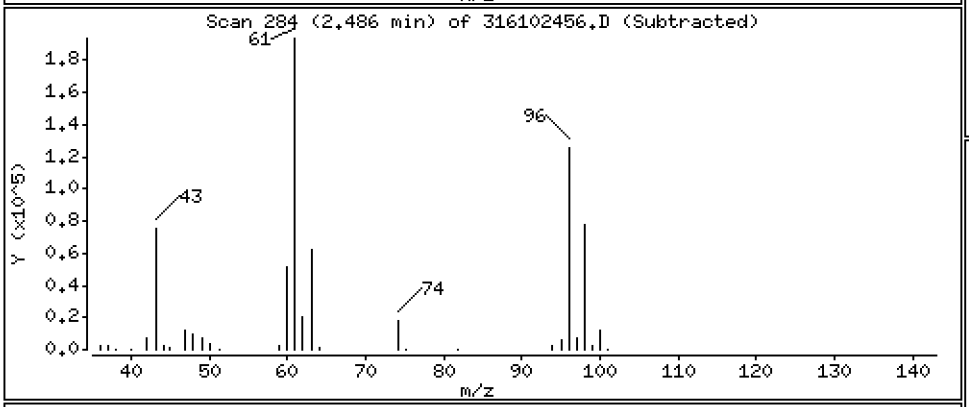
Sample Info: 1236;;1;1;3;;;

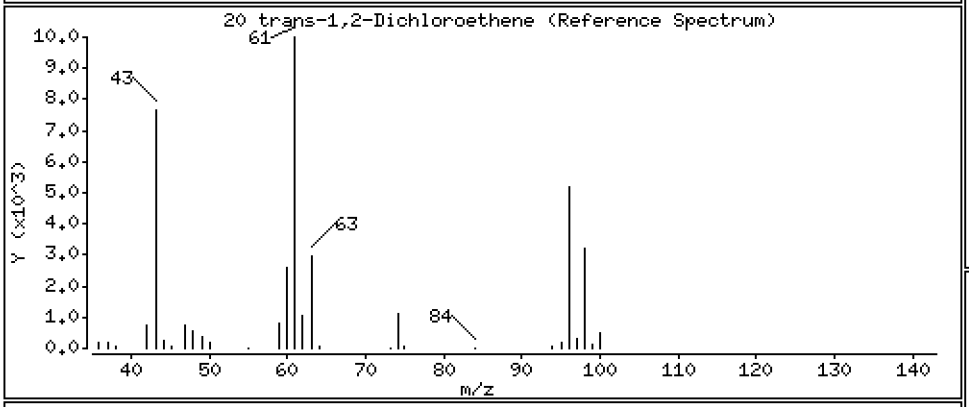
Purge Volume: 5.0 Operator: CJG

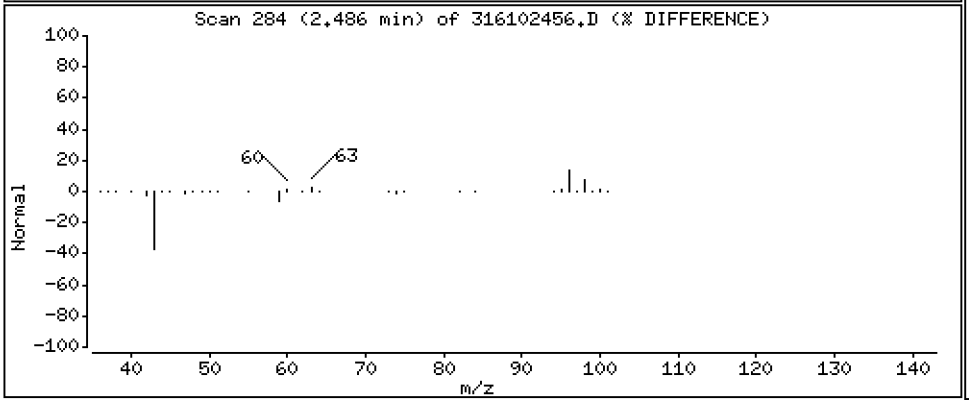
Column phase: DB-VRX Column diameter: 0.25

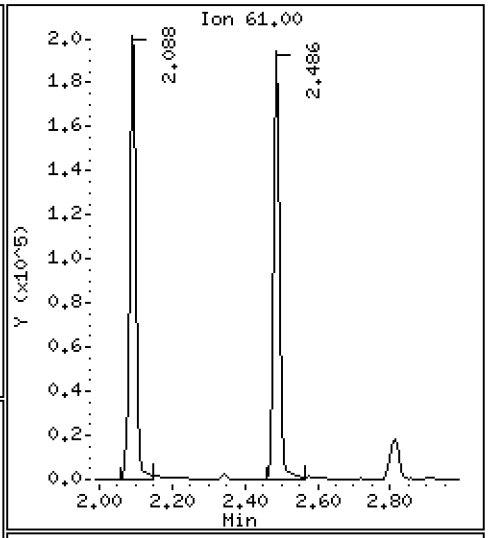
20 trans-1,2-Dichloroethene Concentration: 20.6897 ug/L

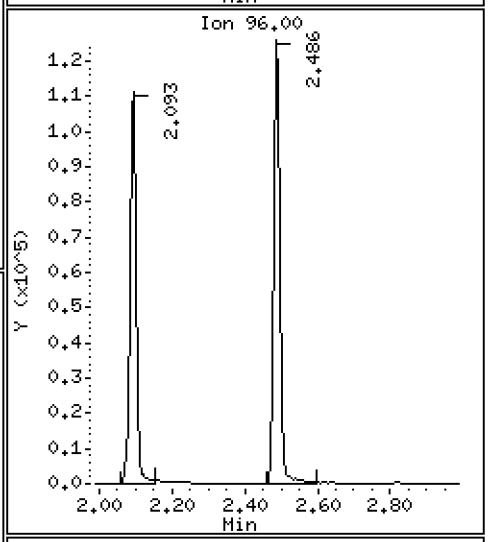


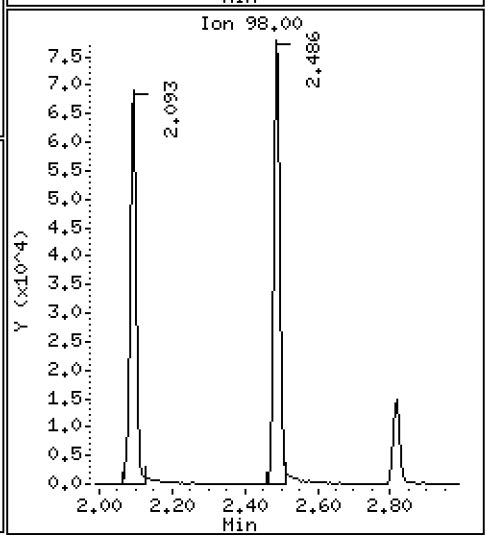












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 29

Date : 25-OCT-2016 00:30

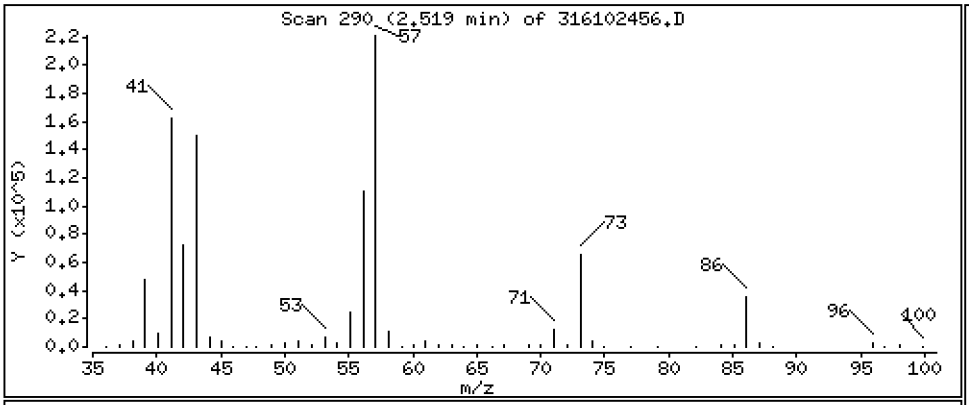
Client ID: Instrument: ms03.i

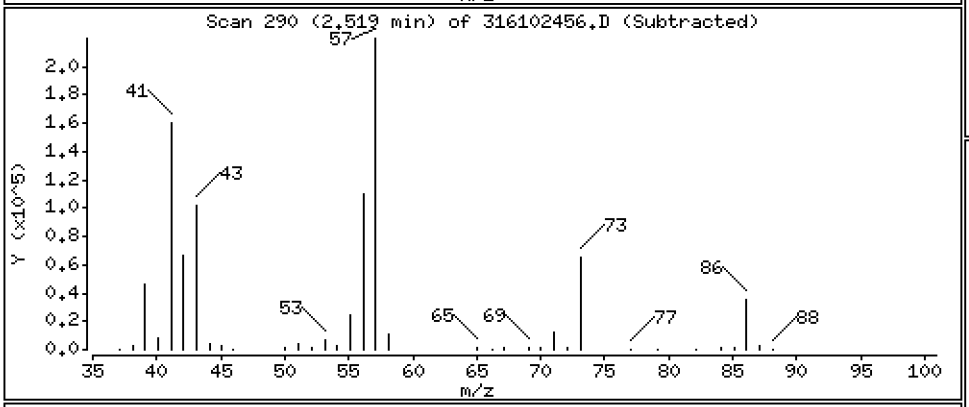
Sample Info: 1236;;1;1;3;;;

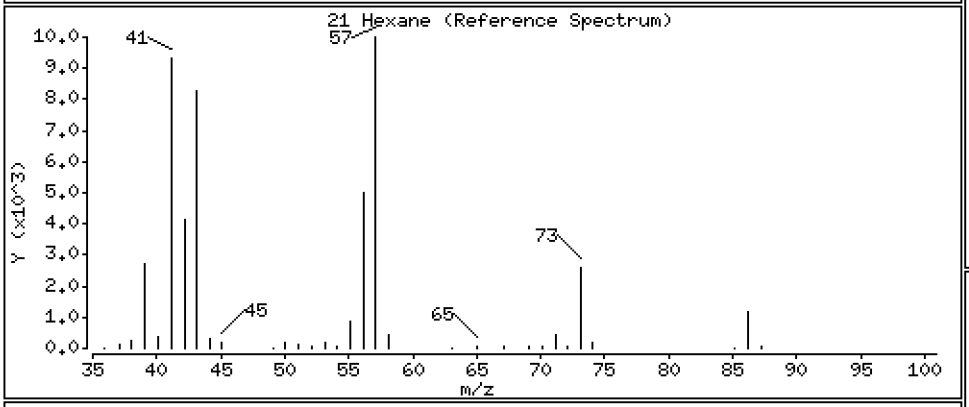
Purge Volume: 5.0 Operator: CJG

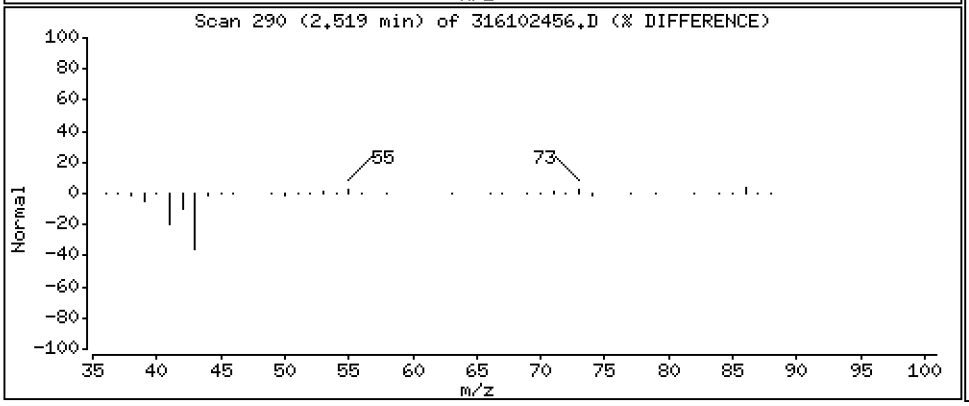
Column phase: DB-VRX Column diameter: 0.25

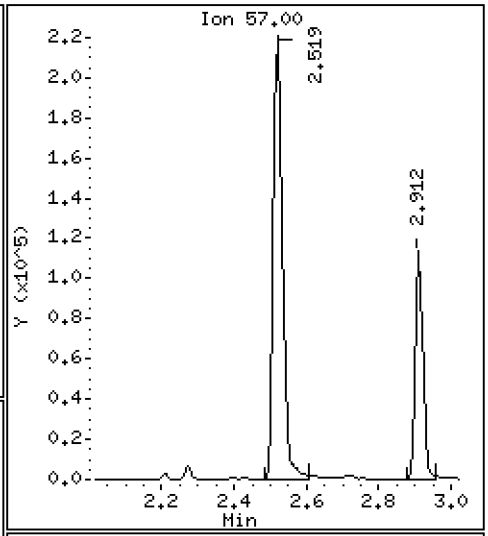
21 Hexane Concentration: 21.5320 ug/L

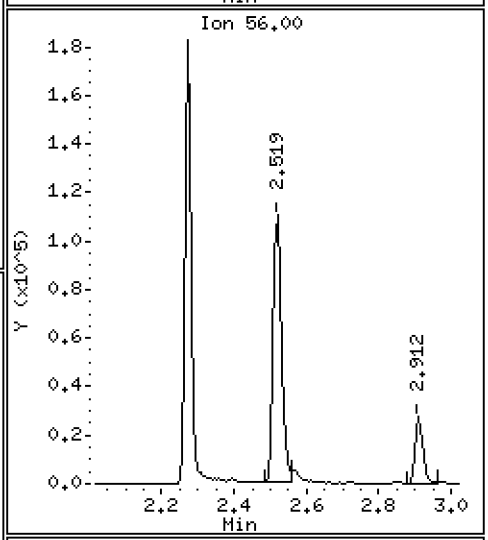


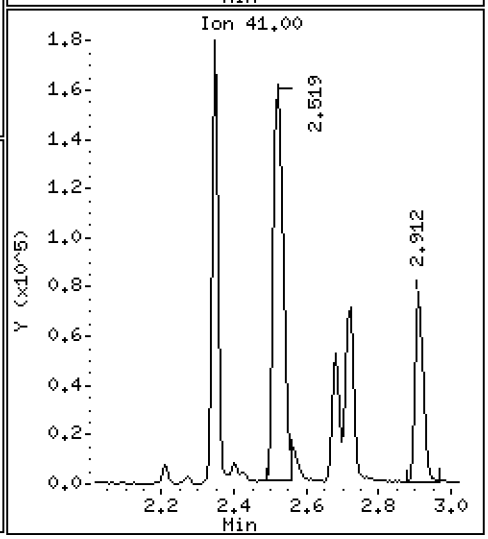












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 30

Date : 25-OCT-2016 00:30

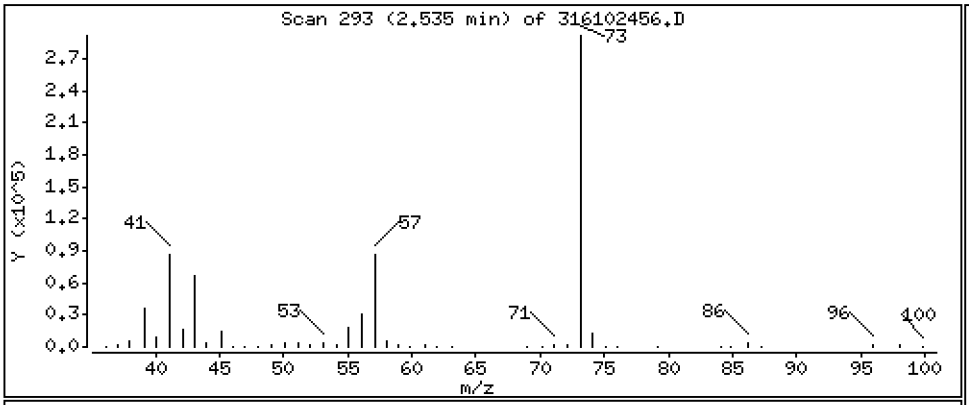
Client ID: Instrument: ms03.i

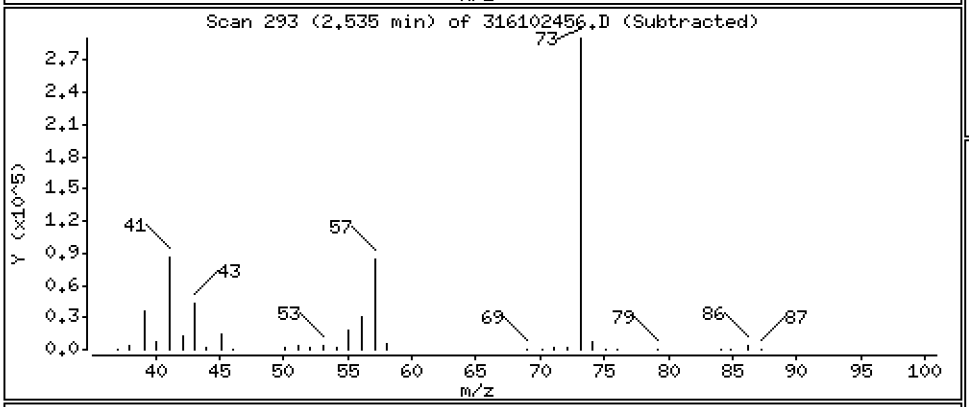
Sample Info: 1236;;1;1;3;;;

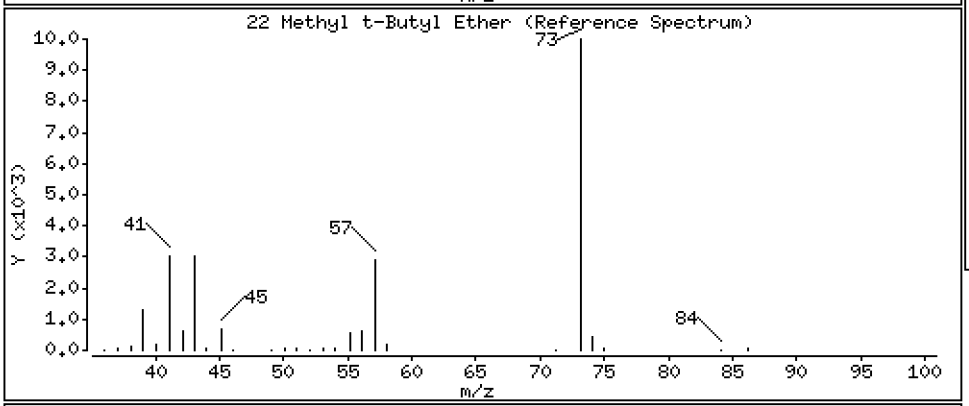
Purge Volume: 5.0 Operator: CJG

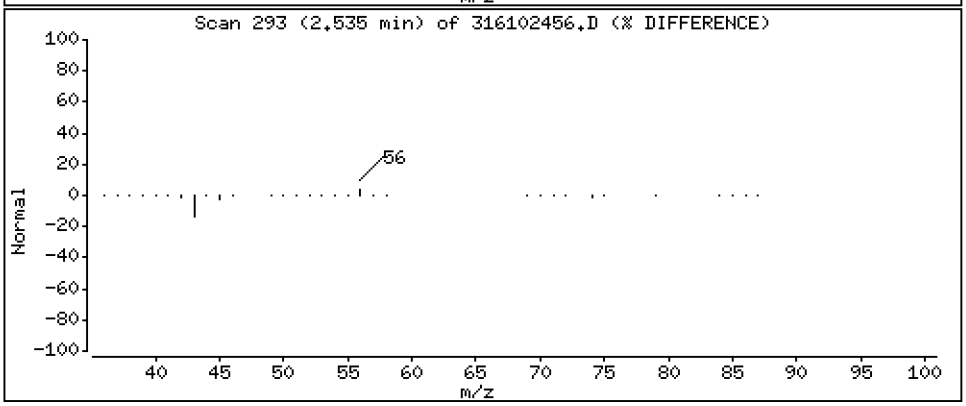
Column phase: DB-VRX Column diameter: 0.25

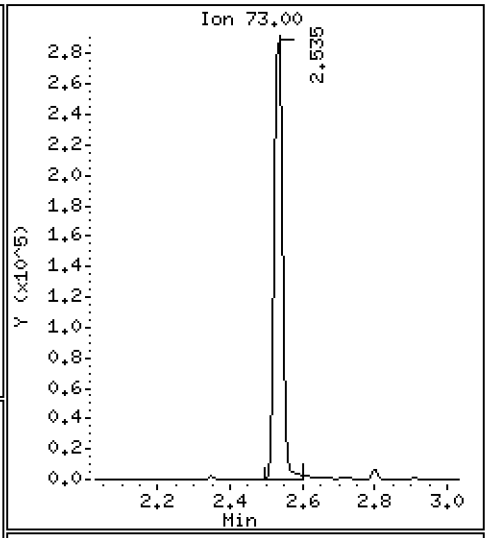
22 Methyl t-Butyl Ether Concentration: 19.2907 ug/L

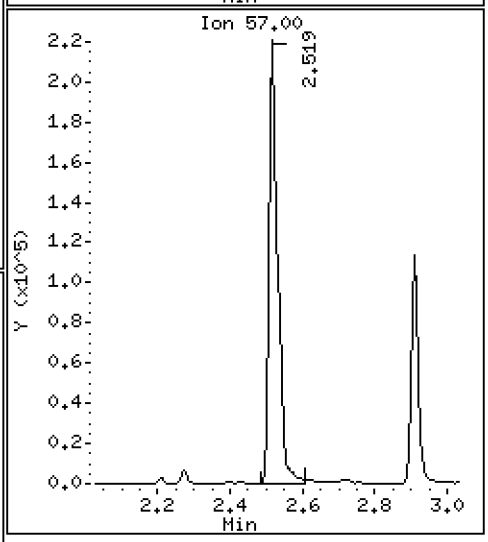












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 31

Date : 25-OCT-2016 00:30

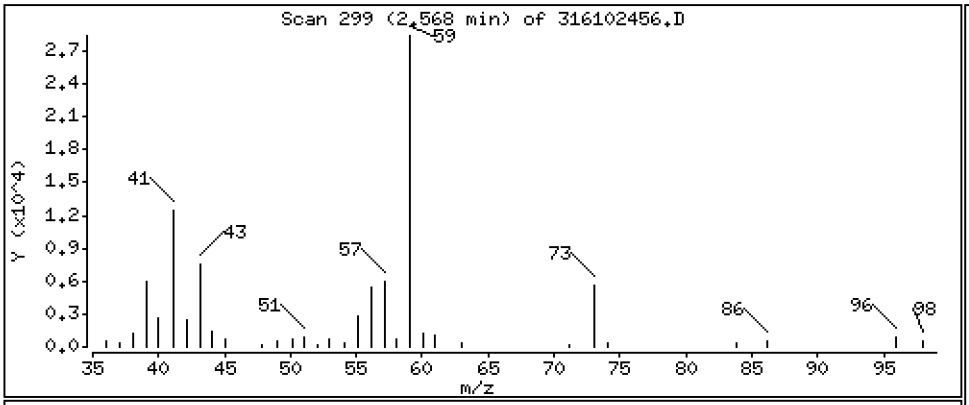
Client ID: Instrument: ms03.i

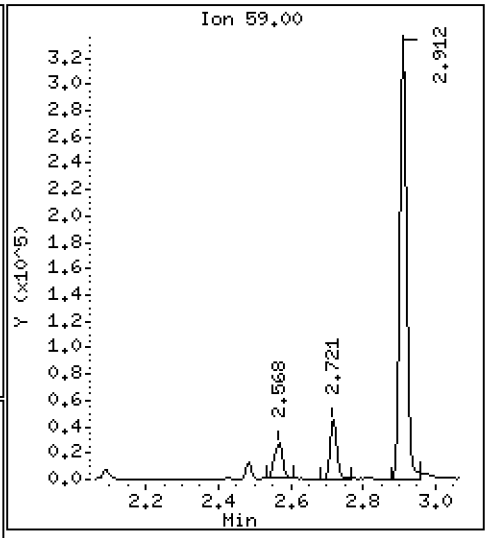
Sample Info: 1236;;1;1;3;;;

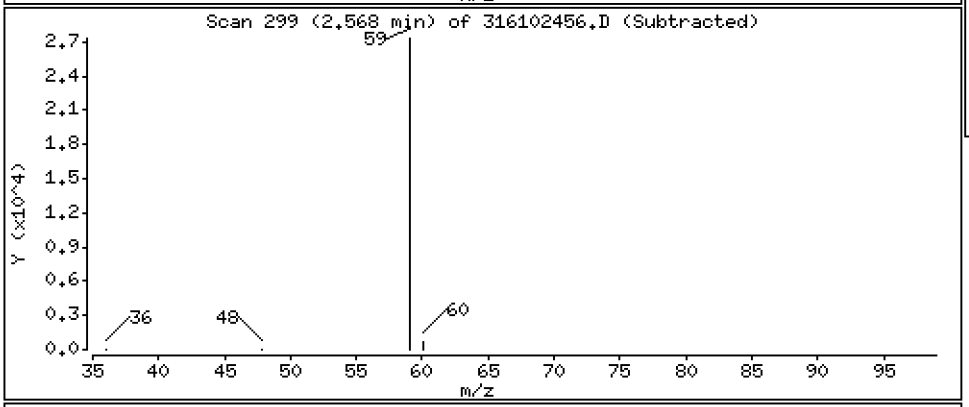
Purge Volume: 5.0 Operator: CJG

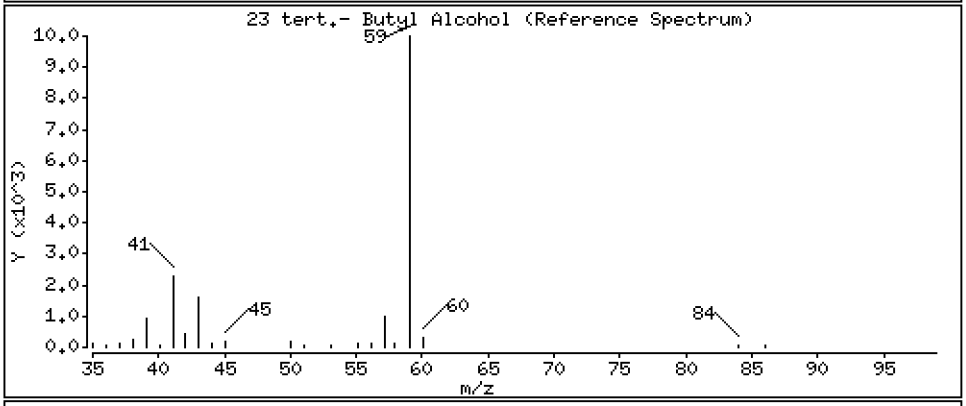
Column phase: DB-VRX Column diameter: 0.25

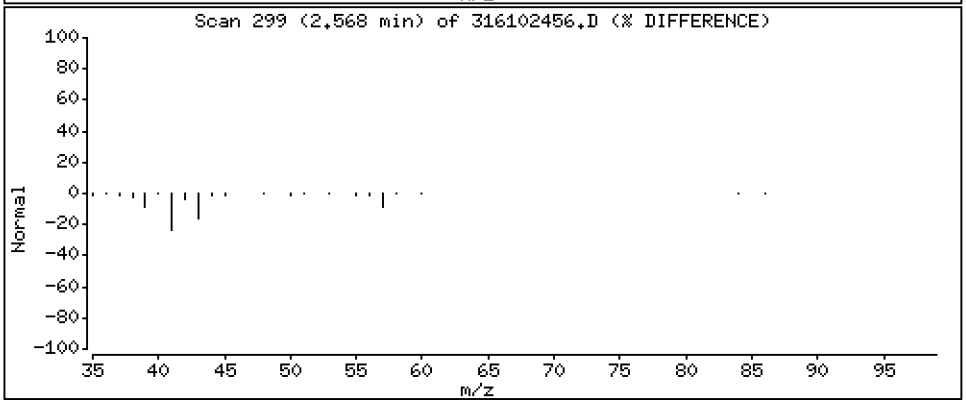
23 tert.- Butyl Alcohol Concentration: 87.0973 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 32

Date : 25-OCT-2016 00:30

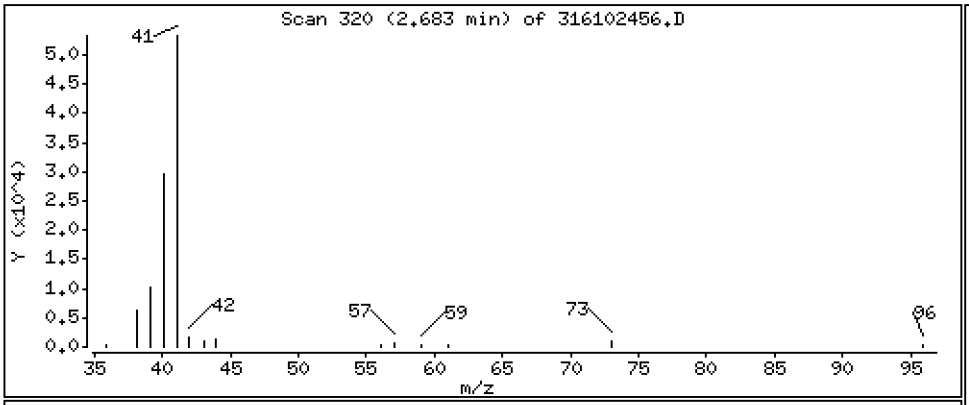
Client ID: Instrument: ms03.i

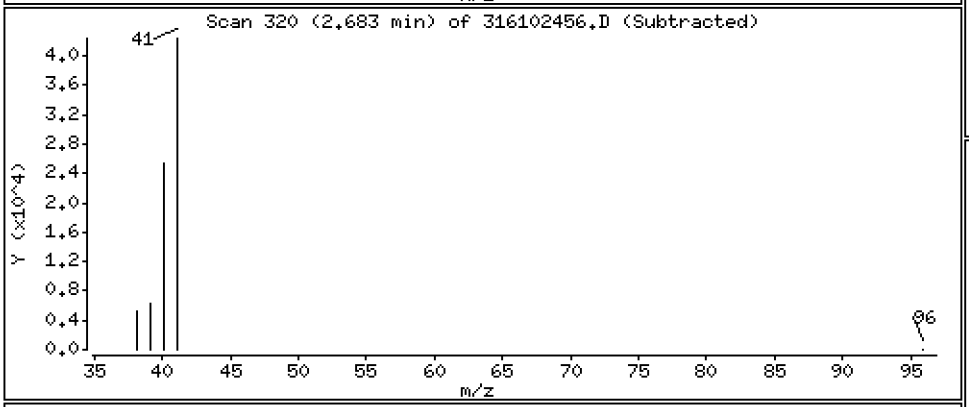
Sample Info: 1236;;1;1;3;;;

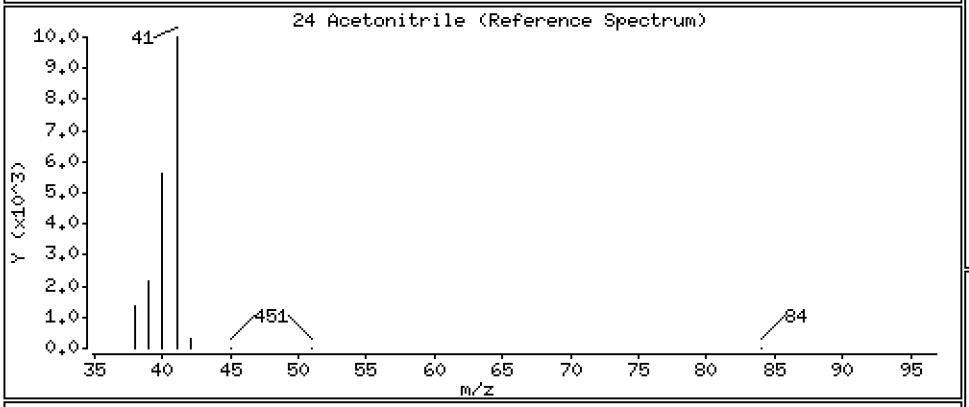
Purge Volume: 5.0 Operator: CJG

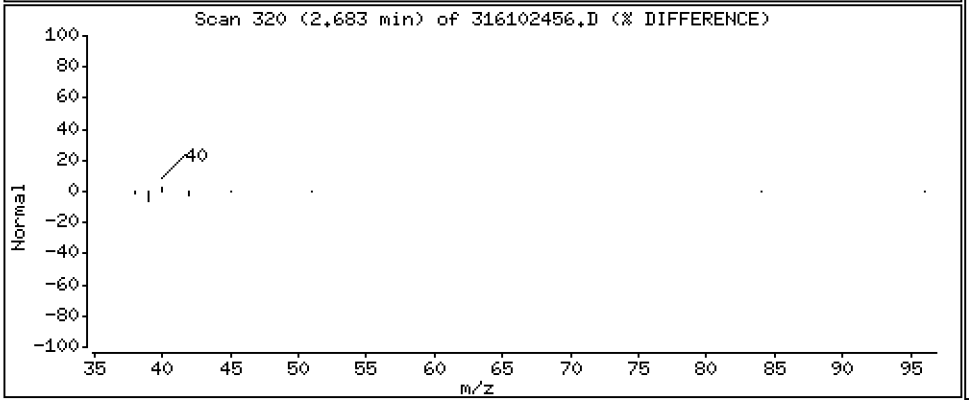
Column phase: DB-VRX Column diameter: 0.25

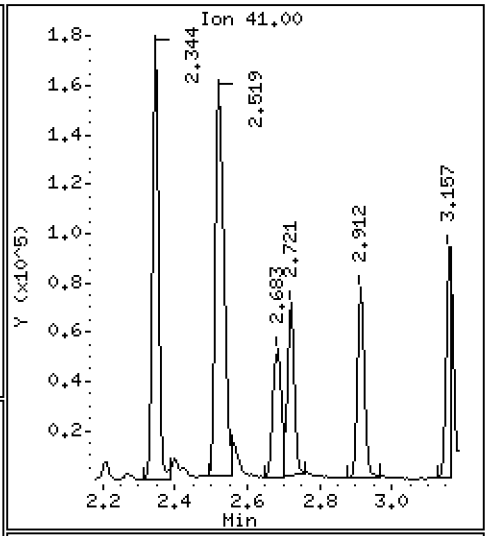
24 Acetonitrile Concentration: 98.5591 ug/L

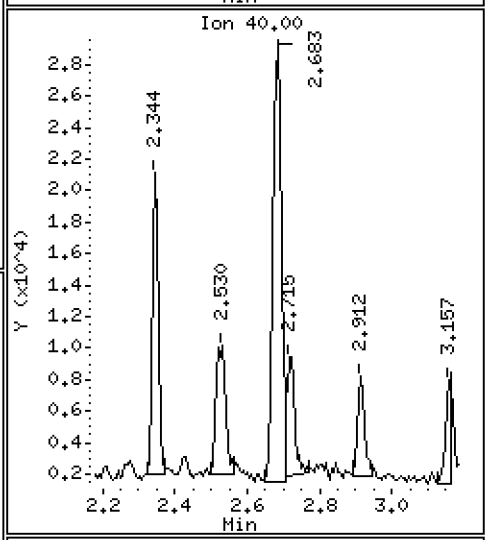


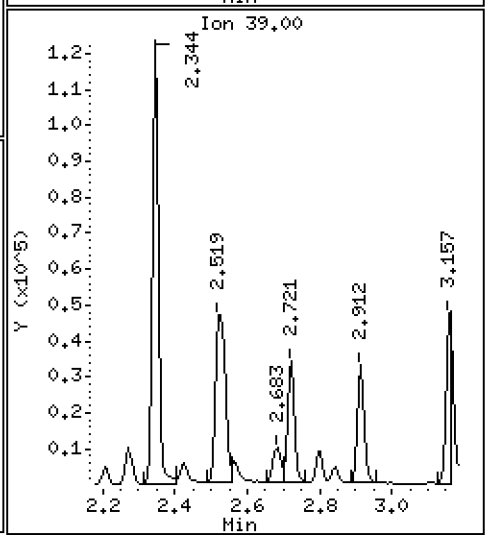












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 33

Date : 25-OCT-2016 00:30

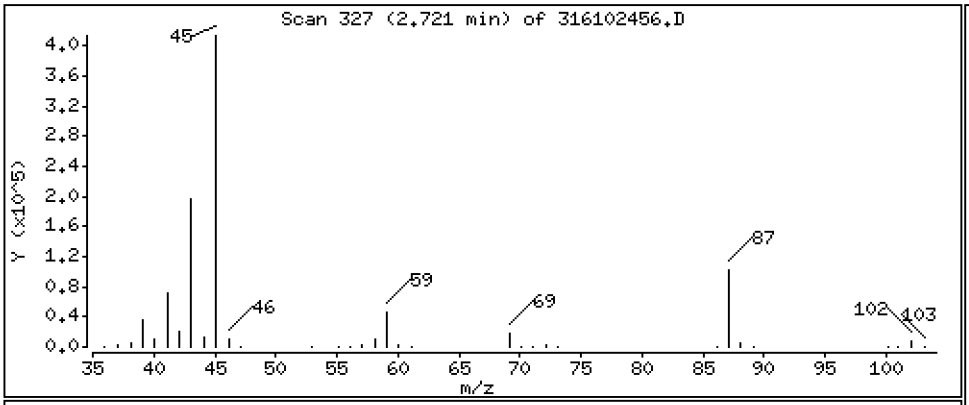
Client ID: Instrument: ms03.i

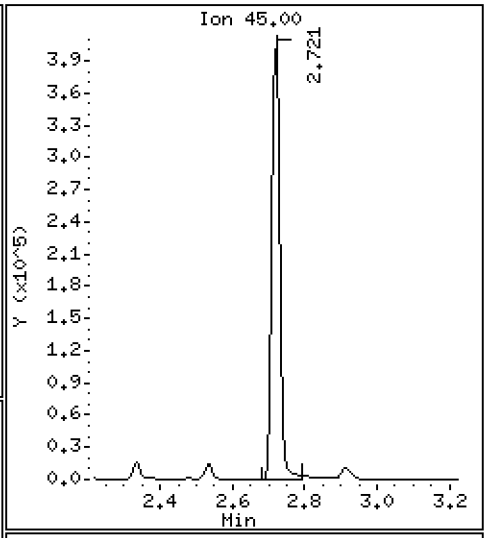
Sample Info: 1236;;1;1;3;;;

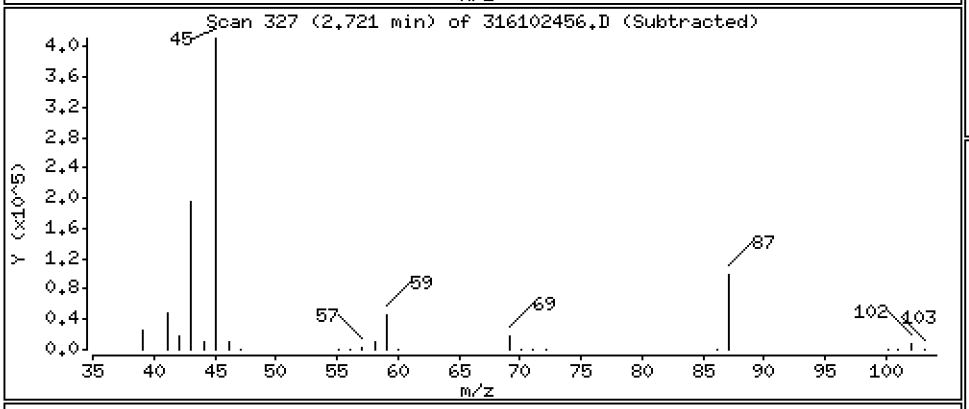
Purge Volume: 5.0 Operator: CJG

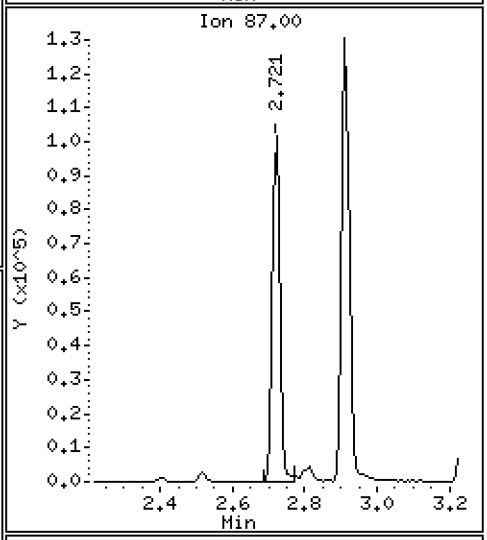
Column phase: DB-VRX Column diameter: 0.25

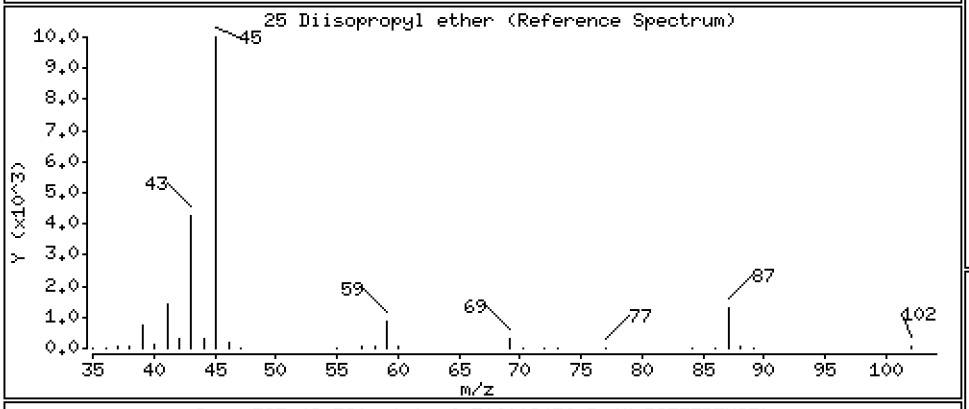
25 Diisopropyl ether Concentration: 19.0405 ug/L

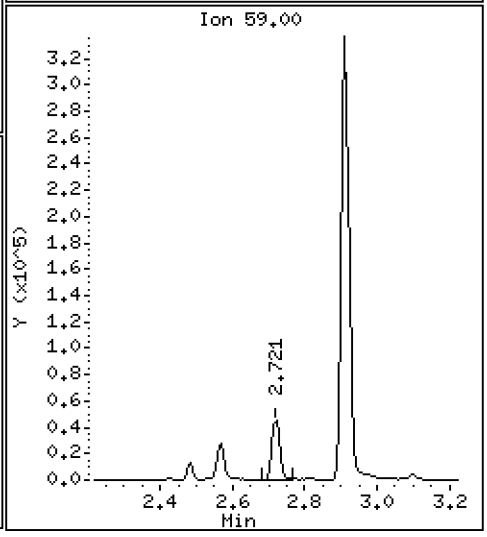


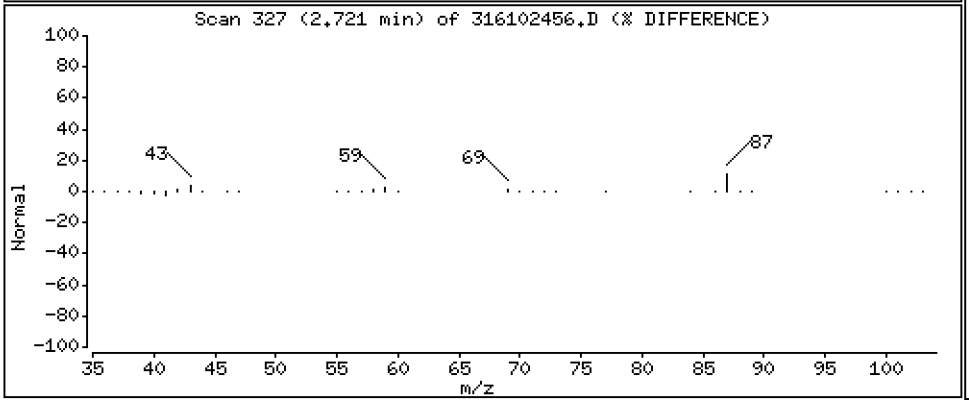












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 34

Date : 25-OCT-2016 00:30

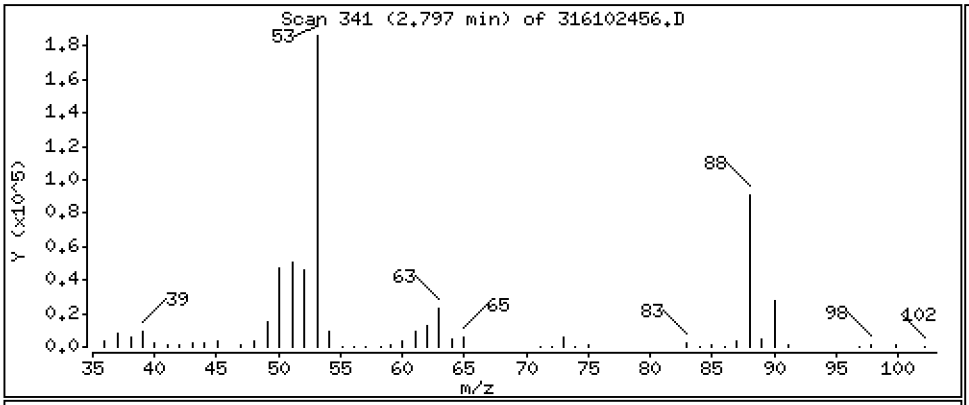
Client ID: Instrument: ms03.i

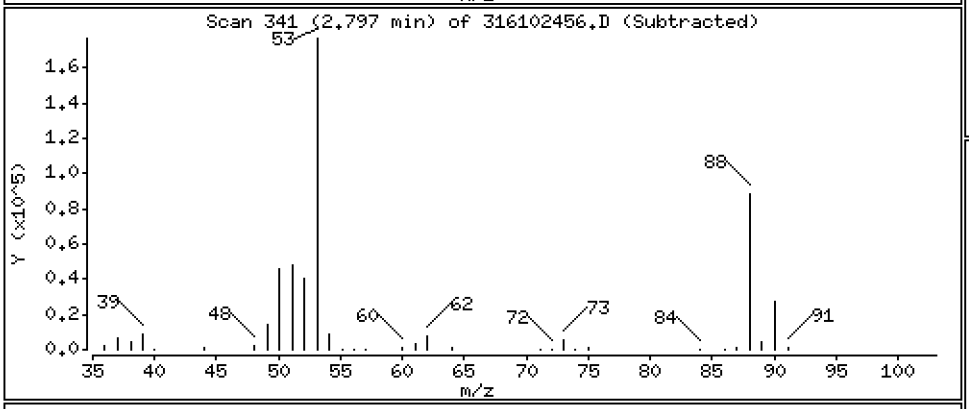
Sample Info: 1236;;1;1;3;;;

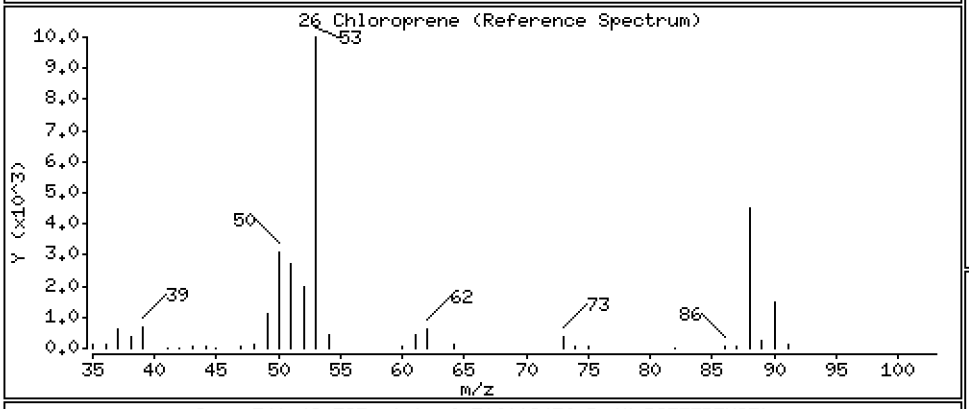
Purge Volume: 5.0 Operator: CJG

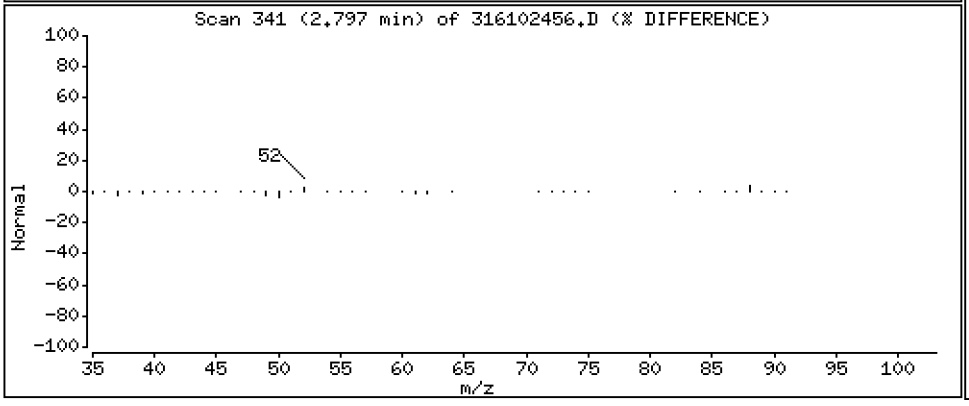
Column phase: DB-VRX Column diameter: 0.25

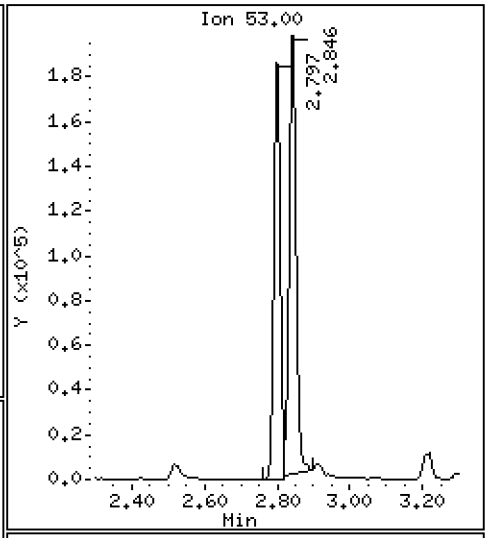
26 Chloroprene Concentration: 20.7934 ug/L

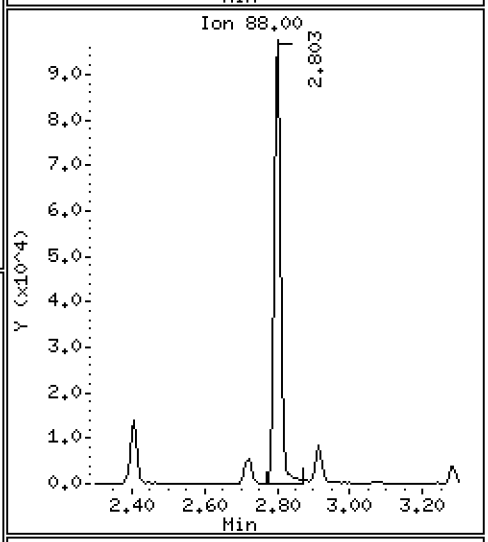


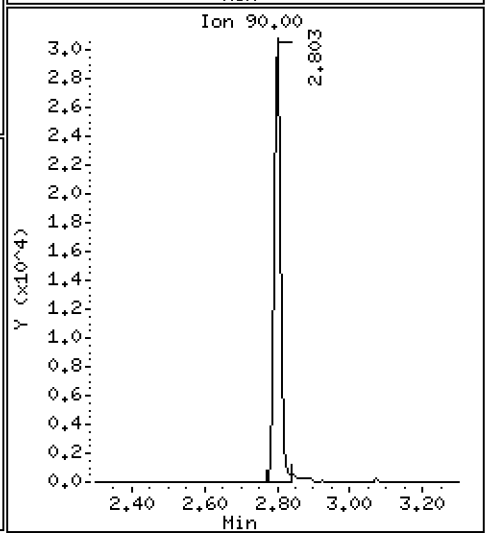












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 35

Date : 25-OCT-2016 00:30

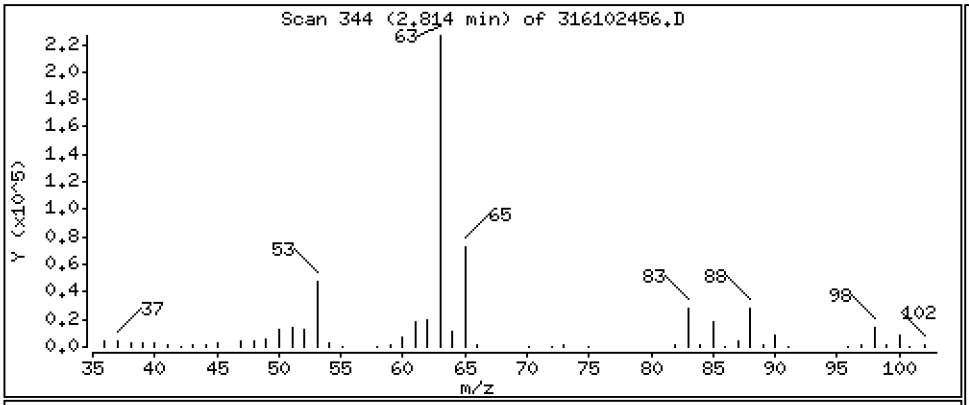
Client ID: Instrument: ms03.i

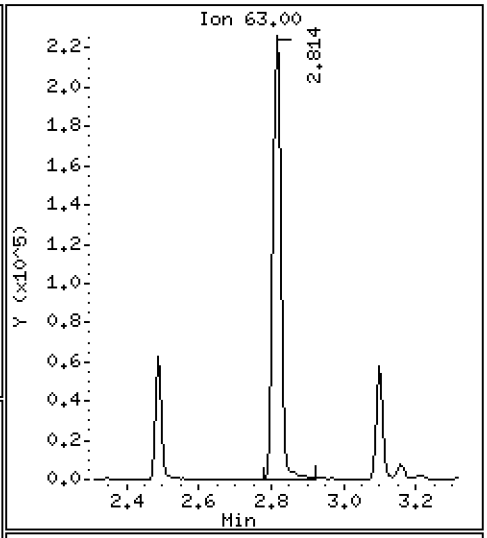
Sample Info: 1236;;1;1;3;;;

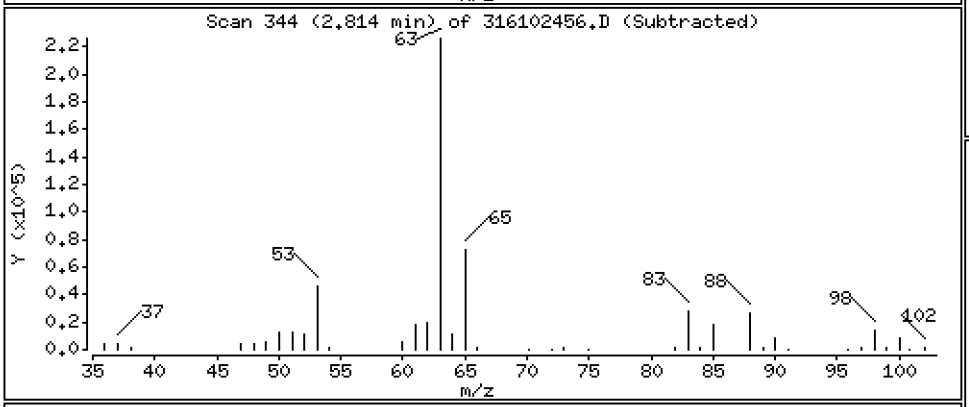
Purge Volume: 5.0 Operator: CJG

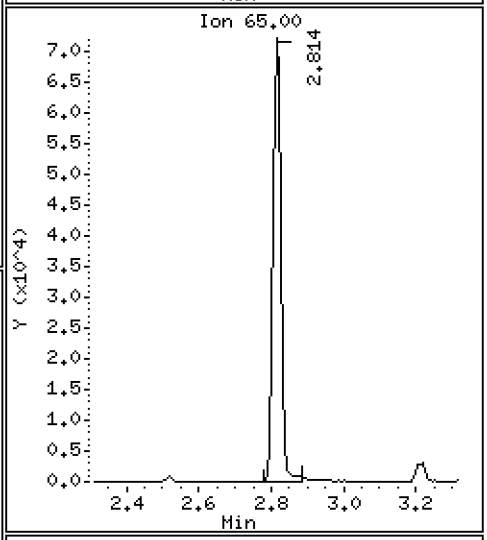
Column phase: DB-VRX Column diameter: 0.25

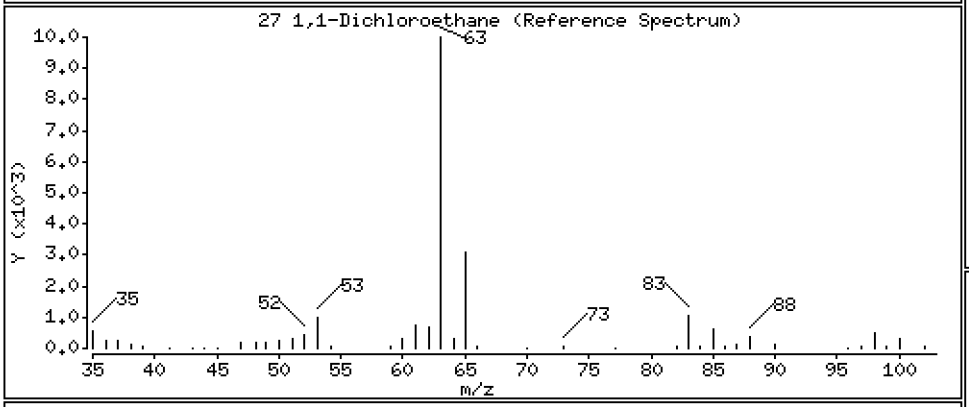
27 1,1-Dichloroethane Concentration: 20.8653 ug/L

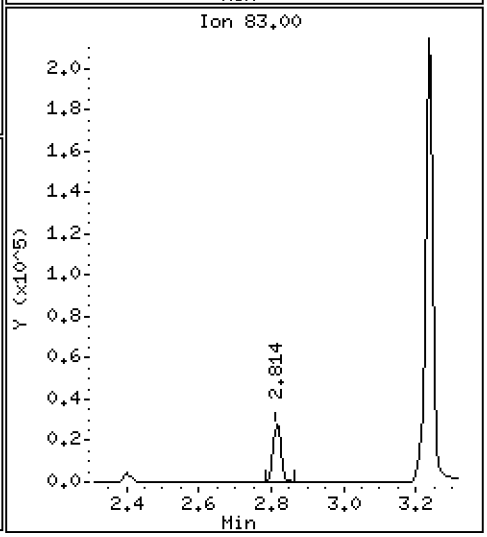


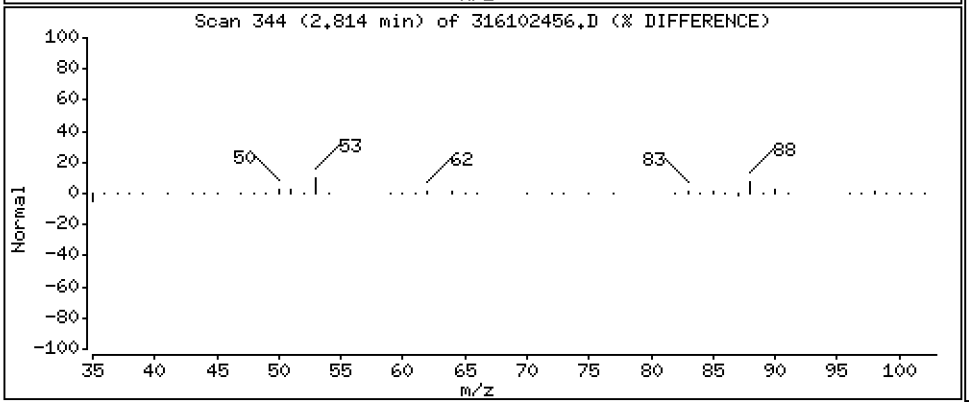












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 36

Date : 25-OCT-2016 00:30

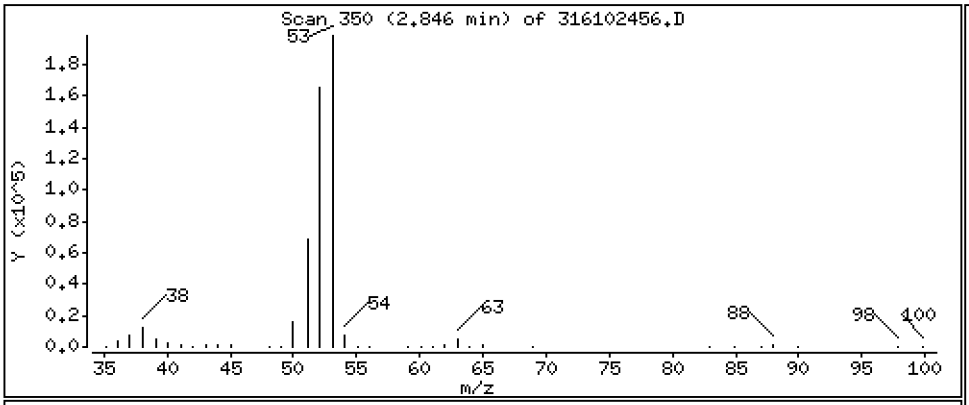
Client ID: Instrument: ms03.i

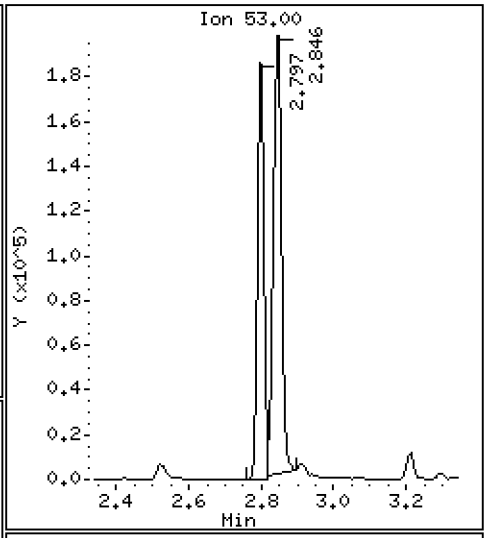
Sample Info: 1236;;1;1;3;;;

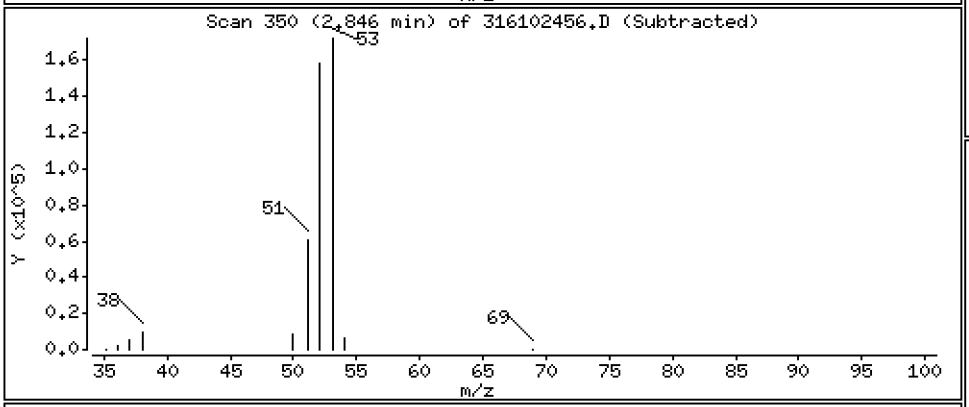
Purge Volume: 5.0 Operator: CJG

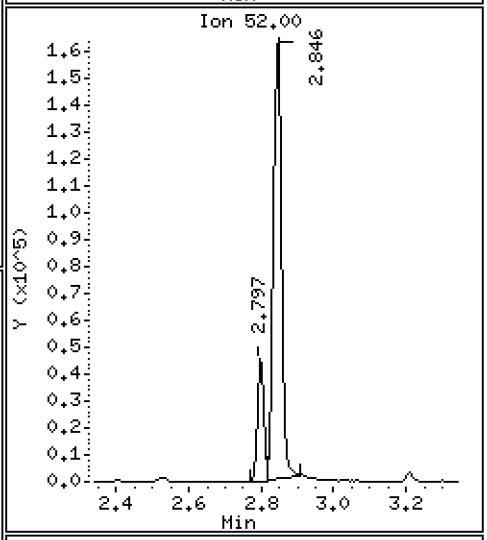
Column phase: DB-VRX Column diameter: 0.25

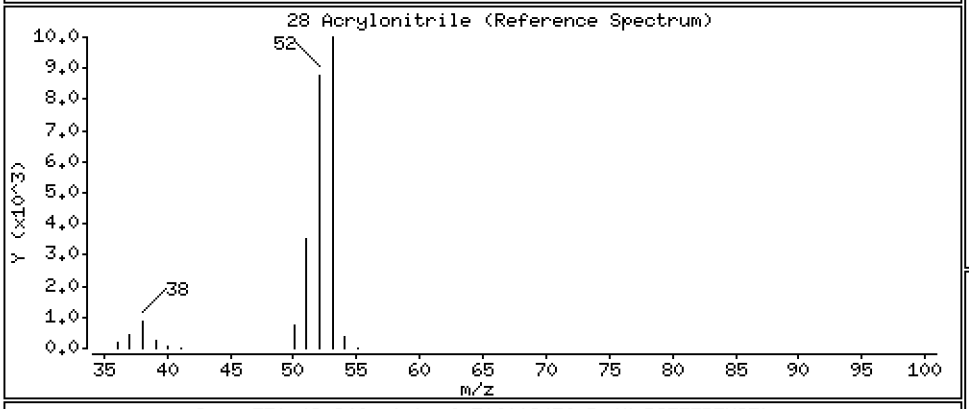
28 Acrylonitrile Concentration: 97.1648 ug/L

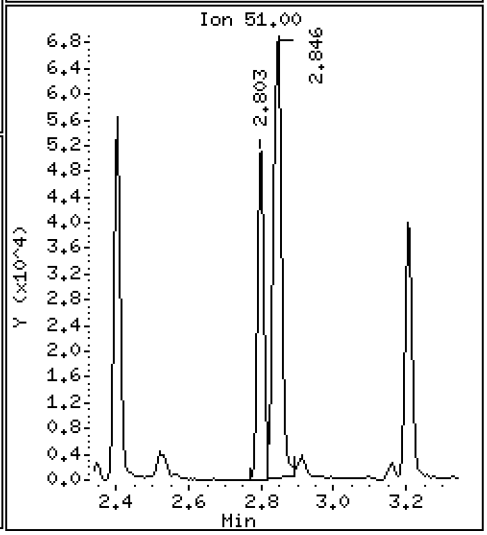


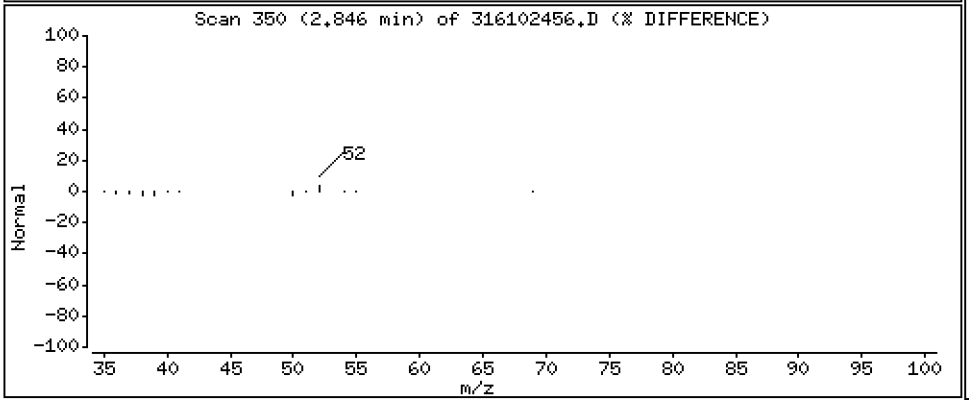












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 37

Date : 25-OCT-2016 00:30

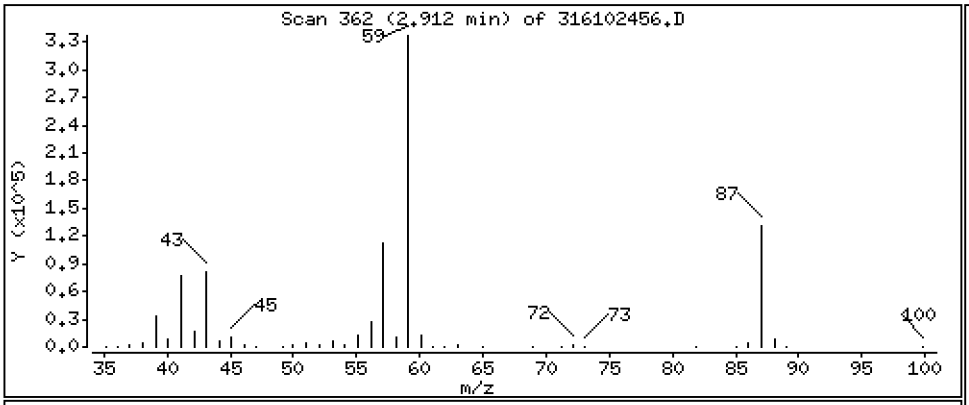
Client ID: Instrument: ms03.i

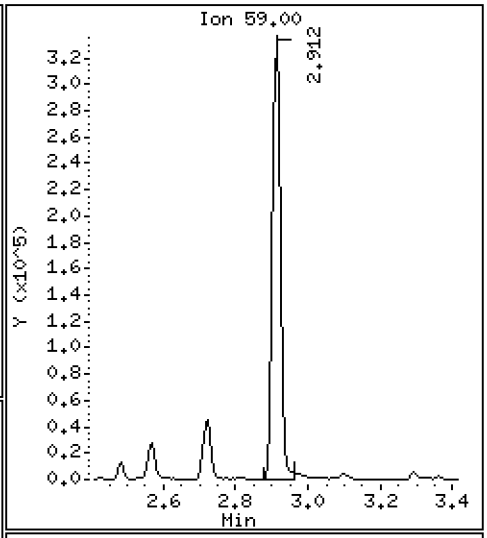
Sample Info: 1236;;1;1;3;;;

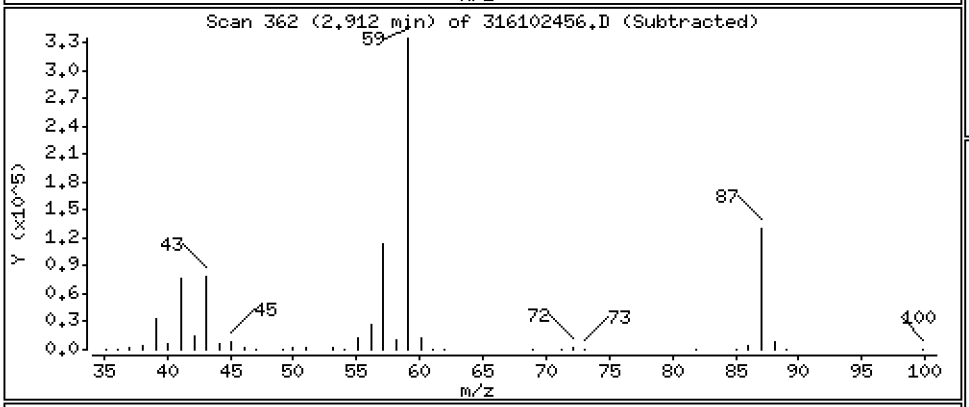
Purge Volume: 5.0 Operator: CJG

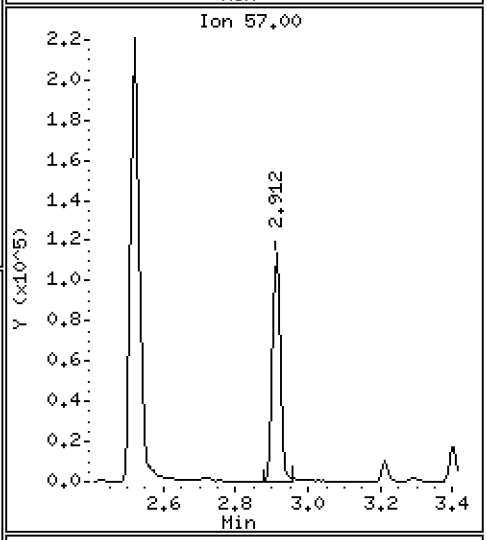
Column phase: DB-VRX Column diameter: 0.25

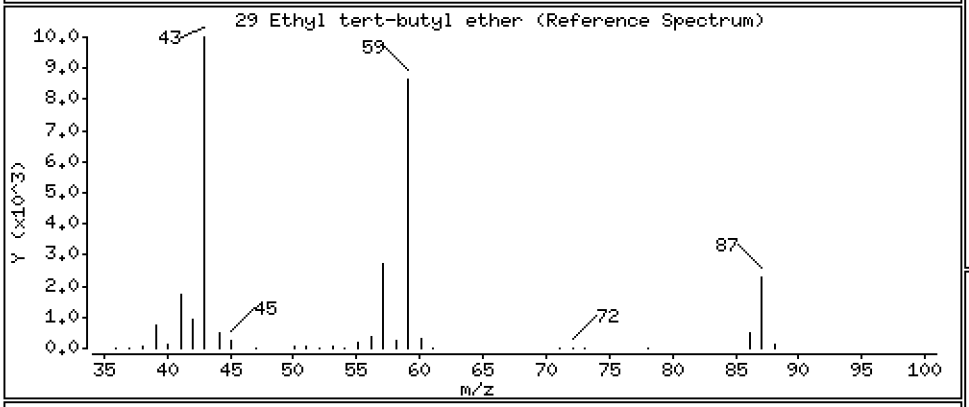
29 Ethyl tert-butyl ether Concentration: 18.6453 ug/L

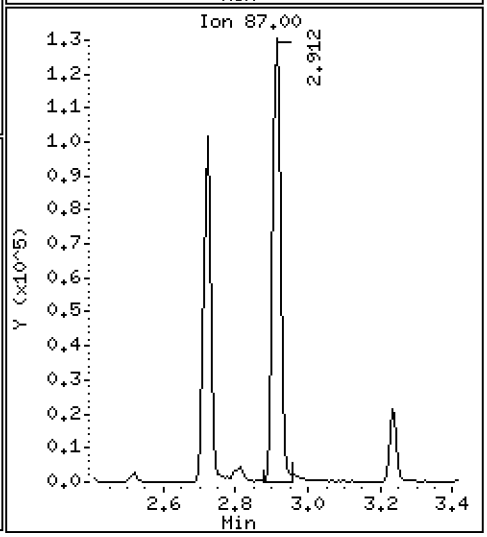


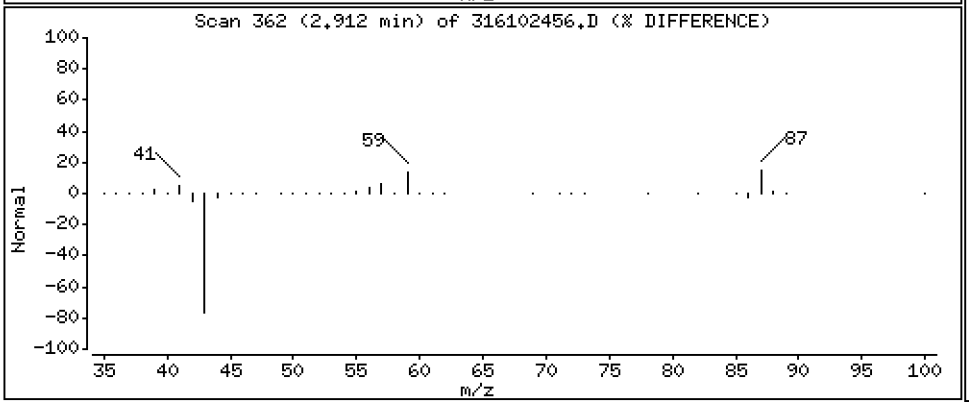












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 38

Date : 25-OCT-2016 00:30

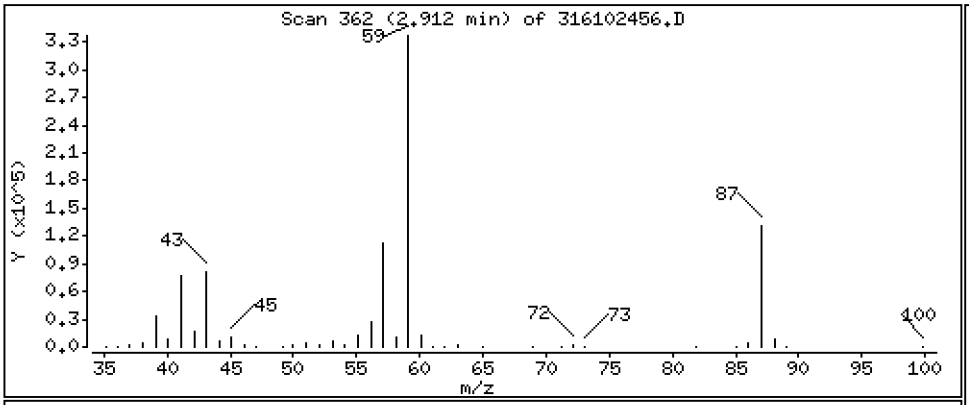
Client ID: Instrument: ms03.i

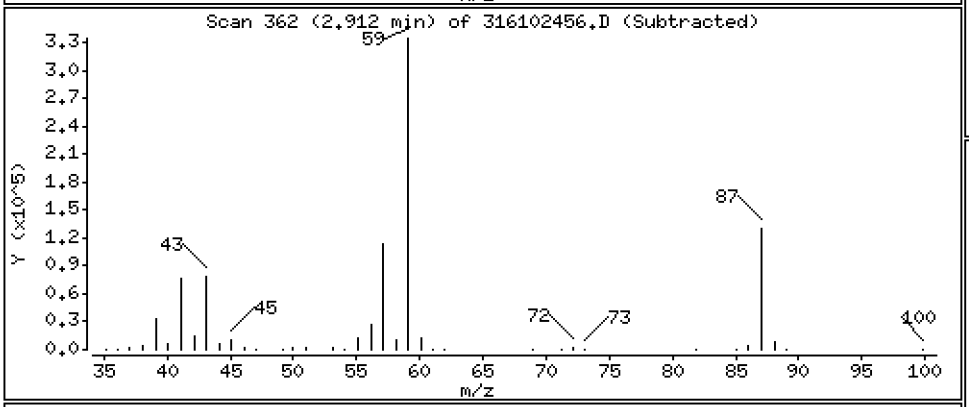
Sample Info: 1236;;1;1;3;;;

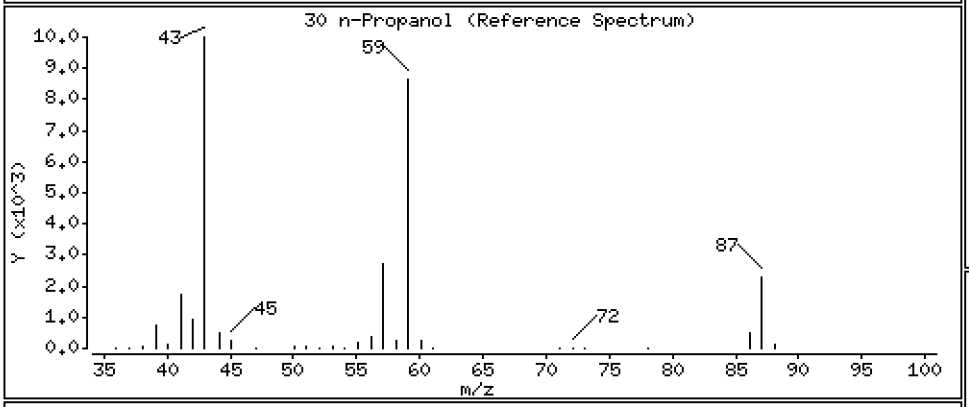
Purge Volume: 5.0 Operator: CJG

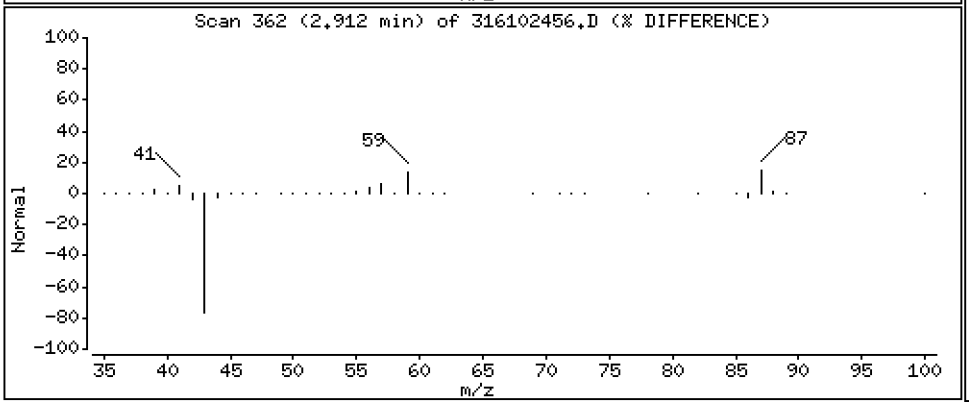
Column phase: DB-VRX Column diameter: 0.25

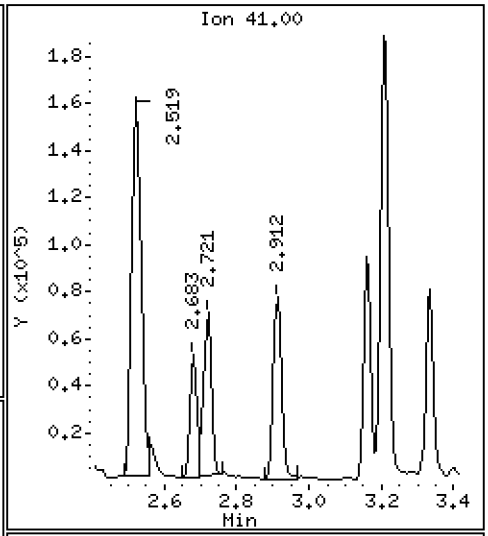
30 n-Propanol Concentration: 201.474 ug/L

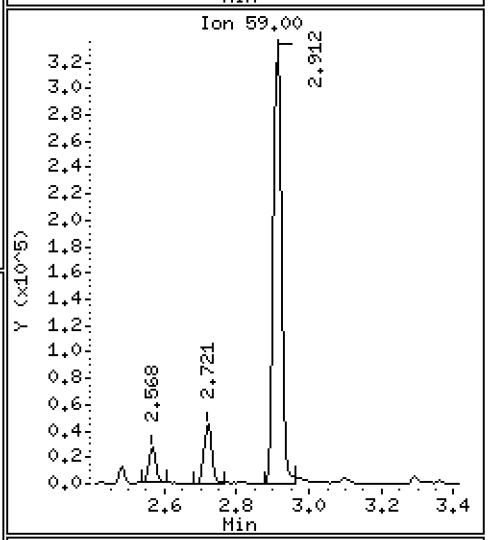


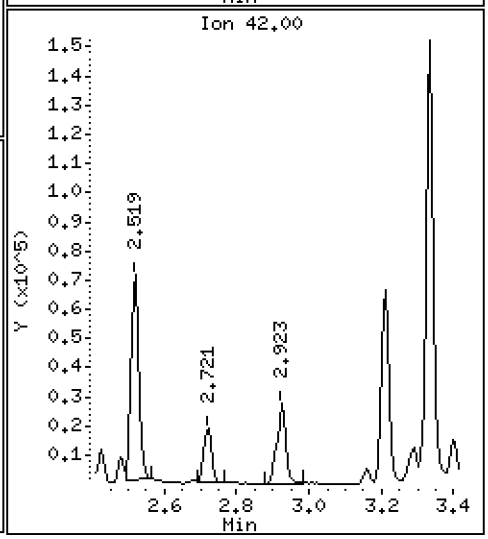












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 39

Date : 25-OCT-2016 00:30

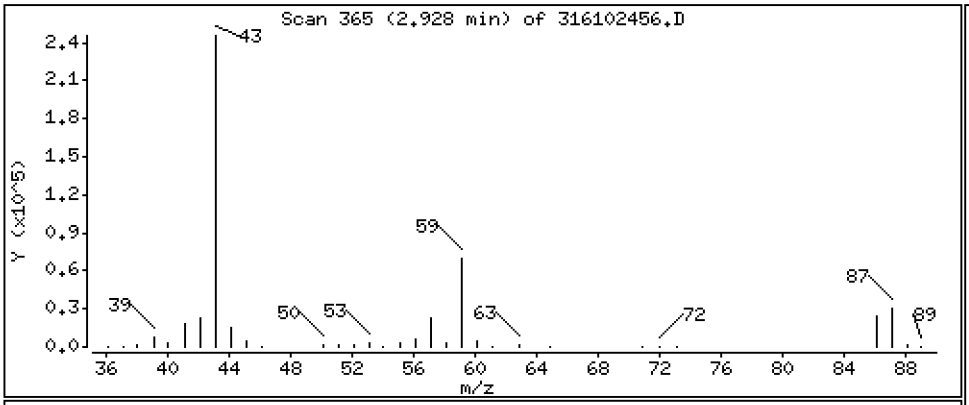
Client ID: Instrument: ms03.i

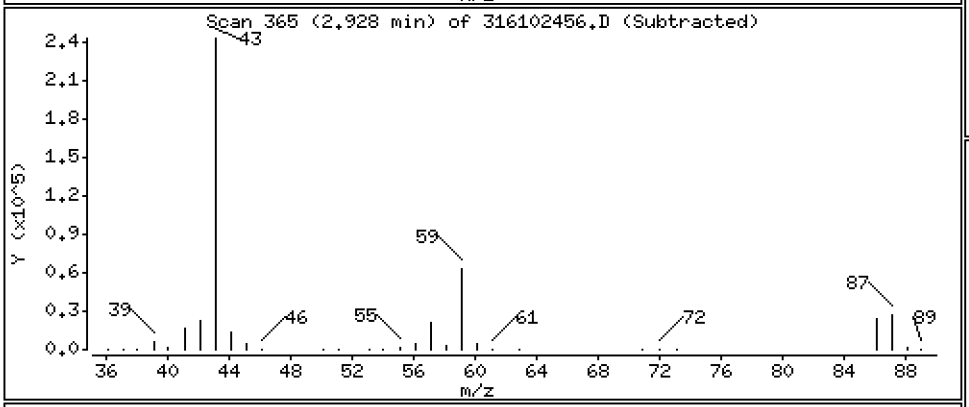
Sample Info: 1236;;1;1;3;;;

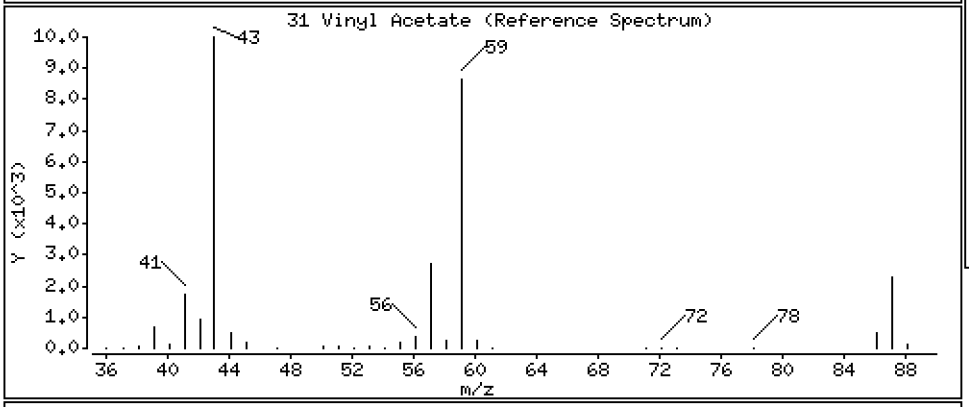
Purge Volume: 5.0 Operator: CJG

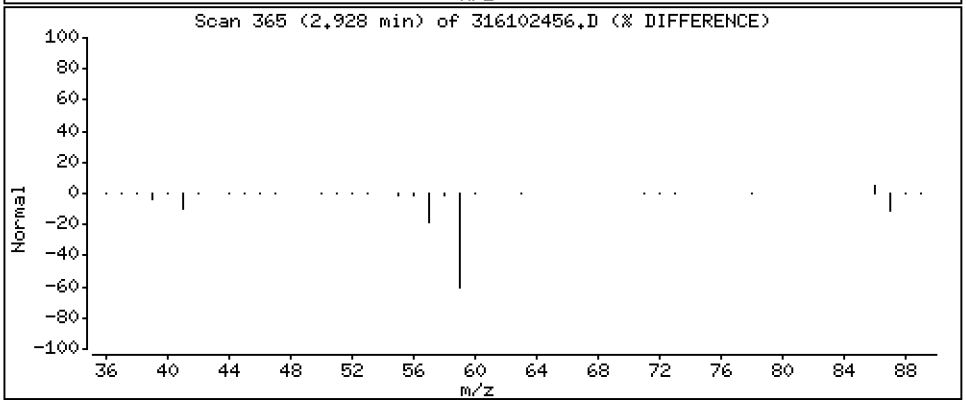
Column phase: DB-VRX Column diameter: 0.25

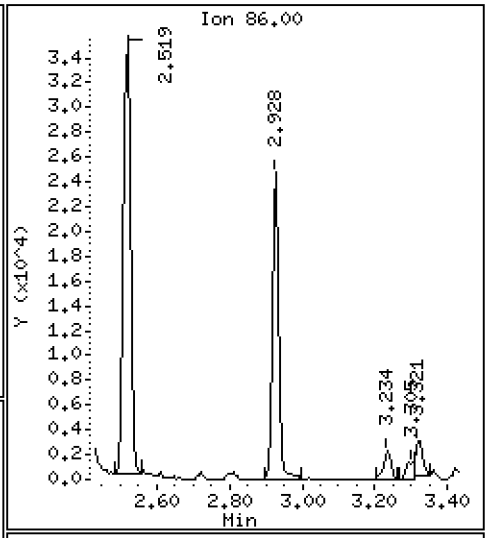
31 Vinyl Acetate Concentration: 18.5966 ug/L

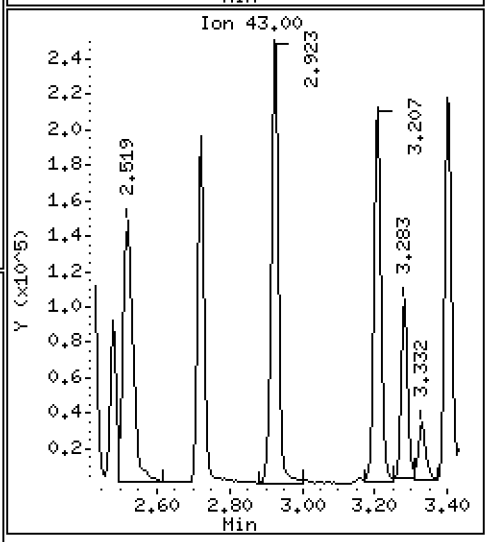












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 40

Date : 25-OCT-2016 00:30

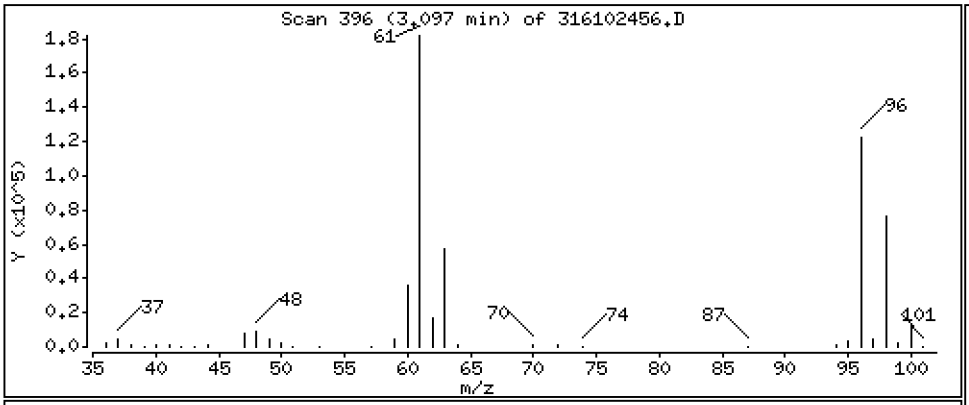
Client ID: Instrument: ms03.i

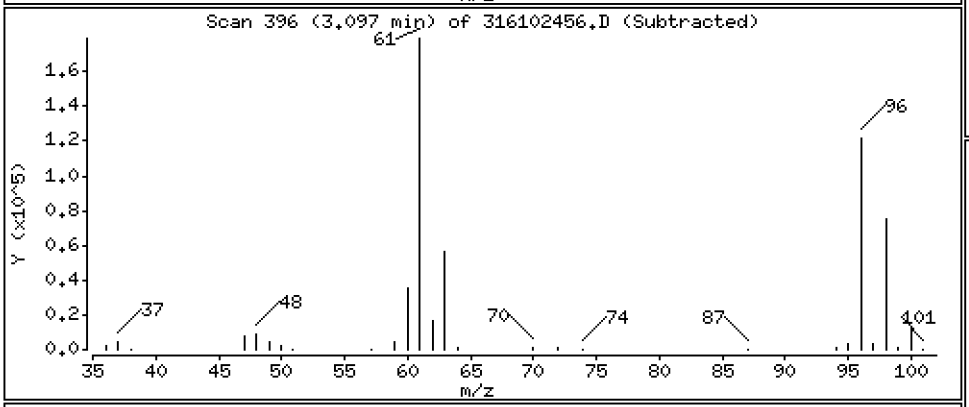
Sample Info: 1236;;1;1;3;;;

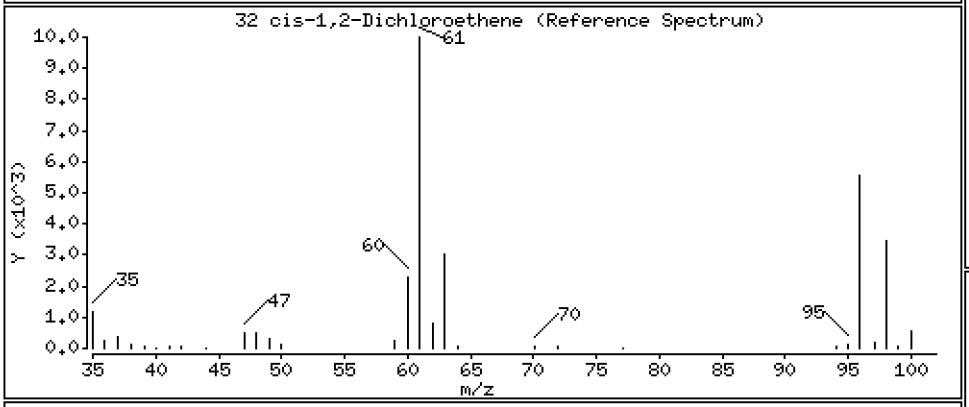
Purge Volume: 5.0 Operator: CJG

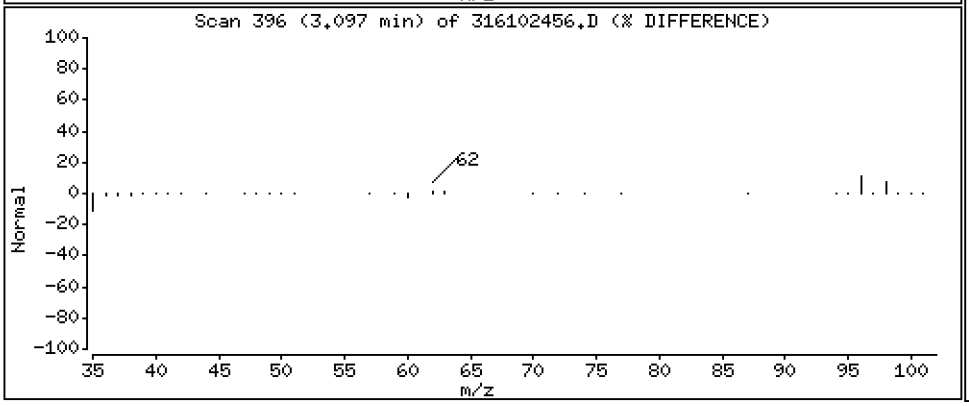
Column phase: DB-VRX Column diameter: 0.25

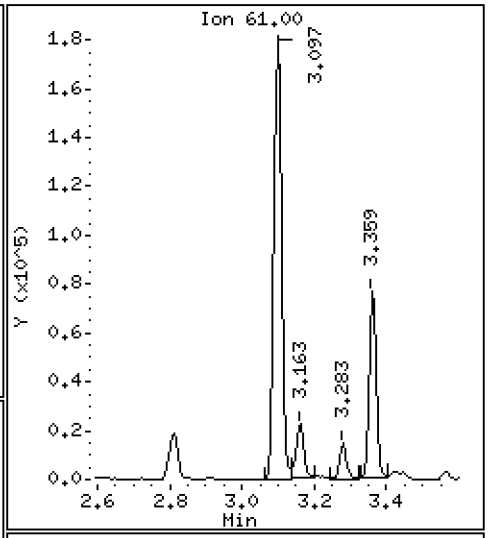
32 cis-1,2-Dichloroethene Concentration: 20.2884 ug/L

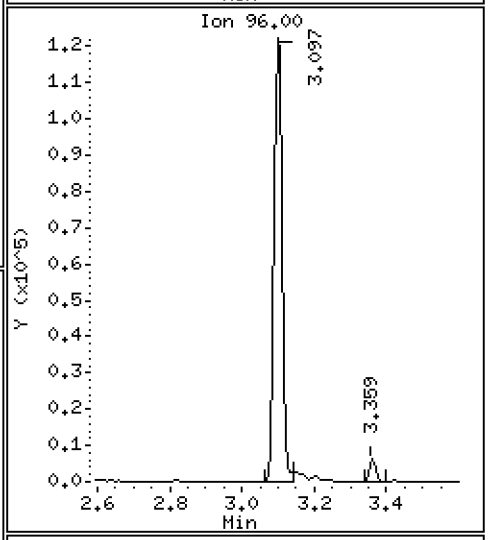


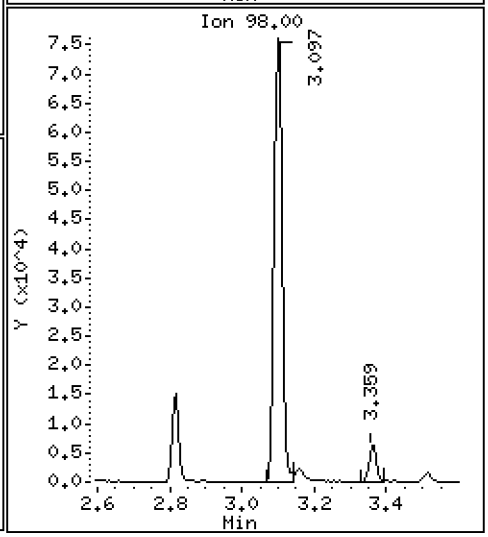












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 41

Date : 25-OCT-2016 00:30

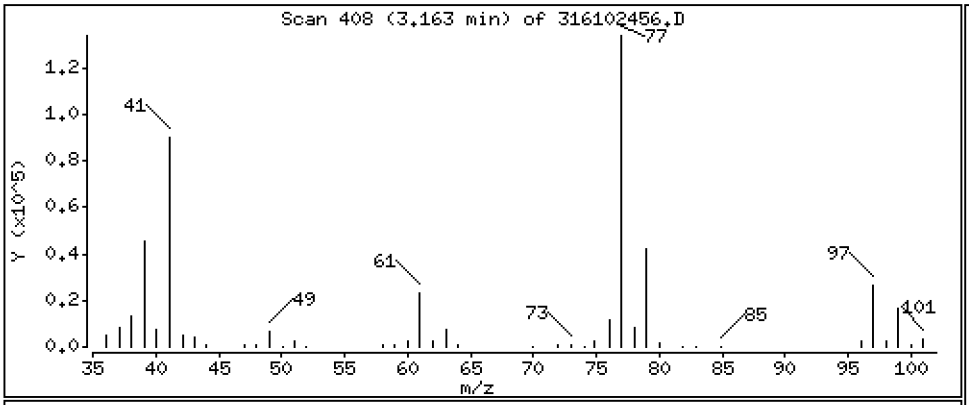
Client ID: Instrument: ms03.i

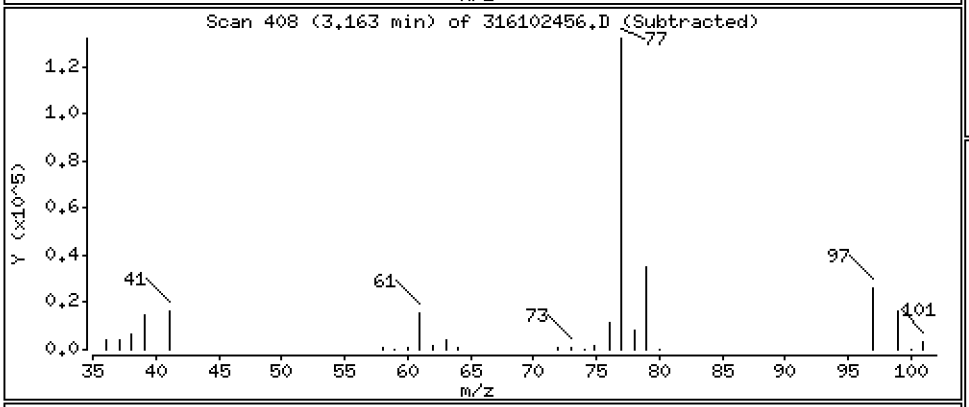
Sample Info: 1236;;1;1;3;;;

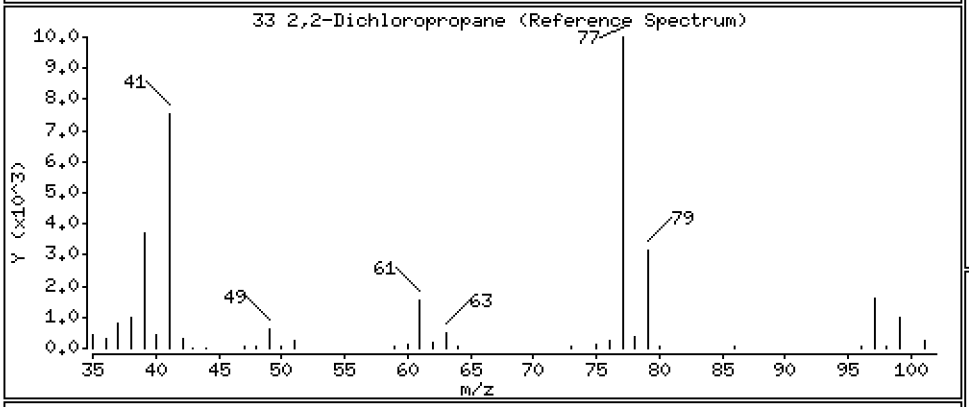
Purge Volume: 5.0 Operator: CJG

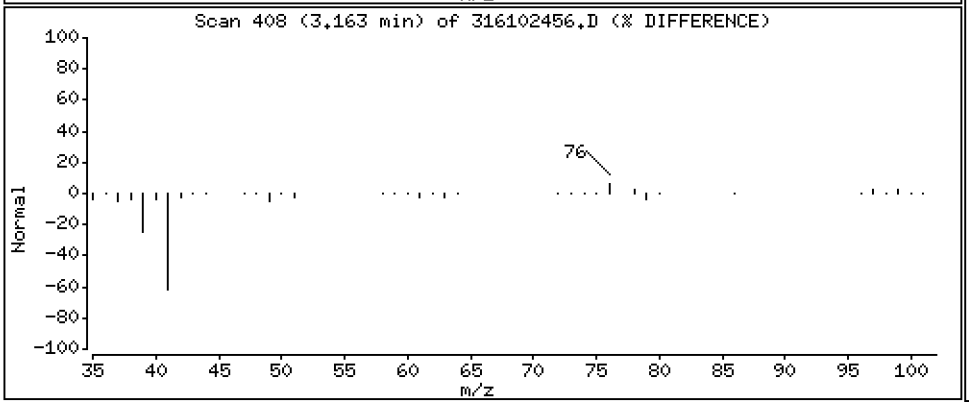
Column phase: DB-VRX Column diameter: 0.25

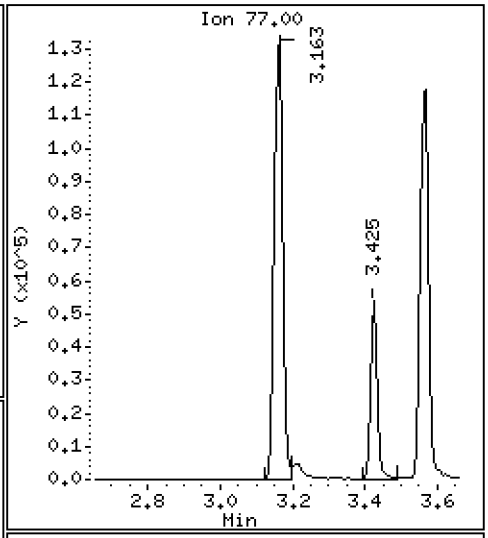
33 2,2-Dichloropropane Concentration: 20.2029 ug/L

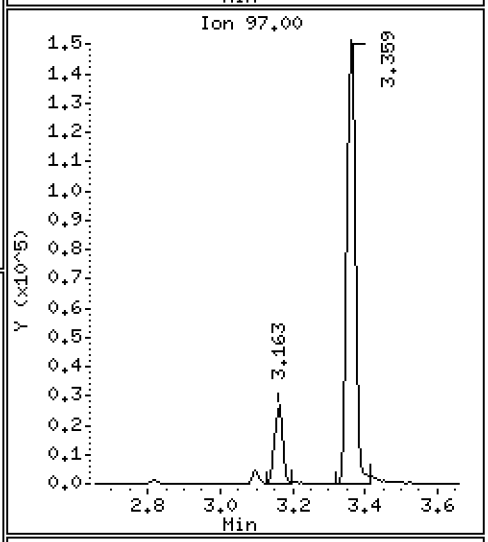


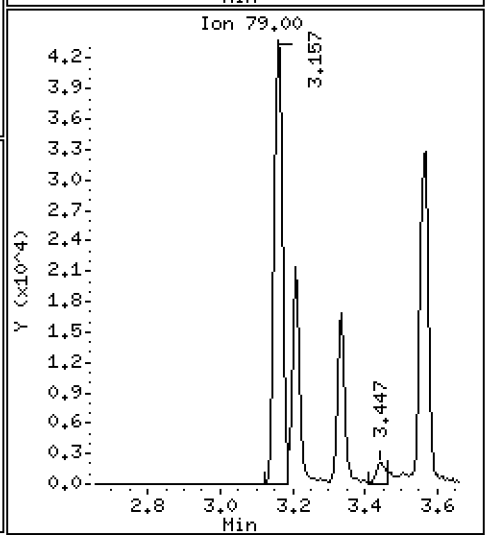












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 42

Date : 25-OCT-2016 00:30

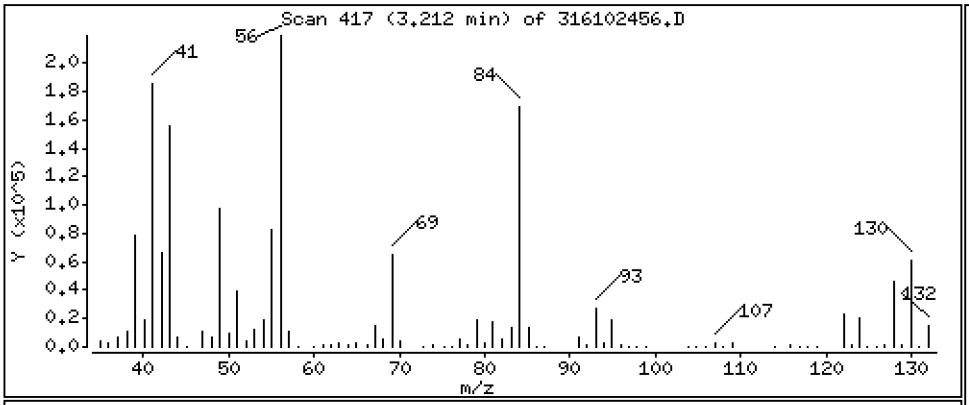
Client ID: Instrument: ms03.i

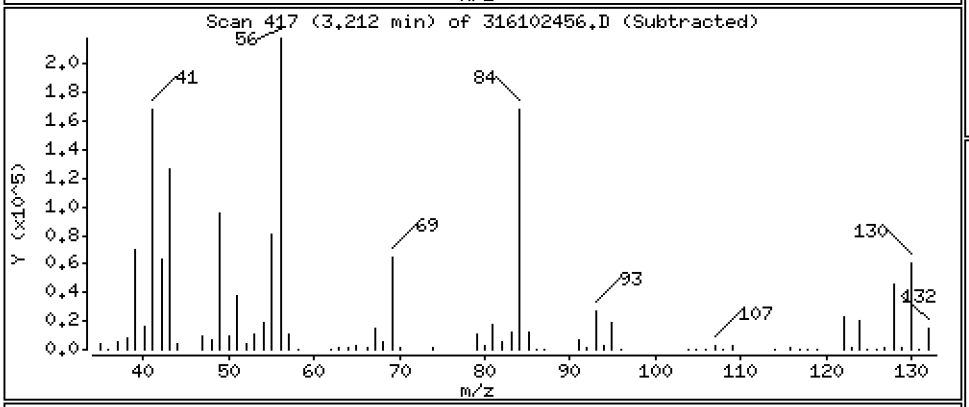
Sample Info: 1236;;1;1;3;;;

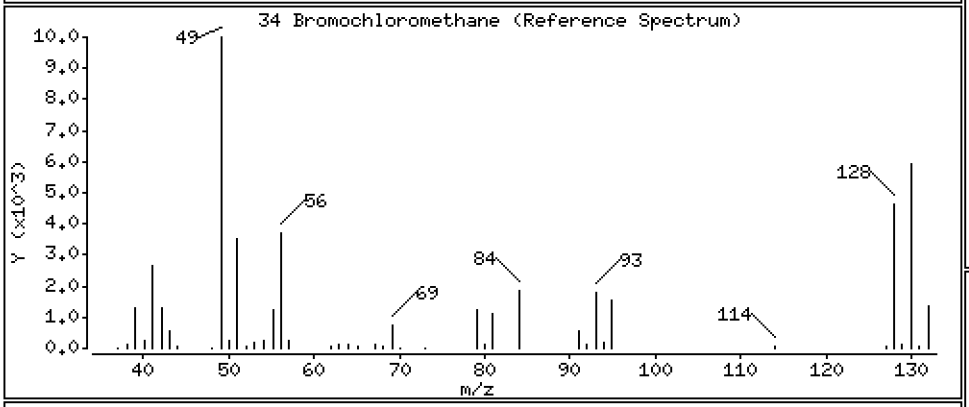
Purge Volume: 5.0 Operator: CJG

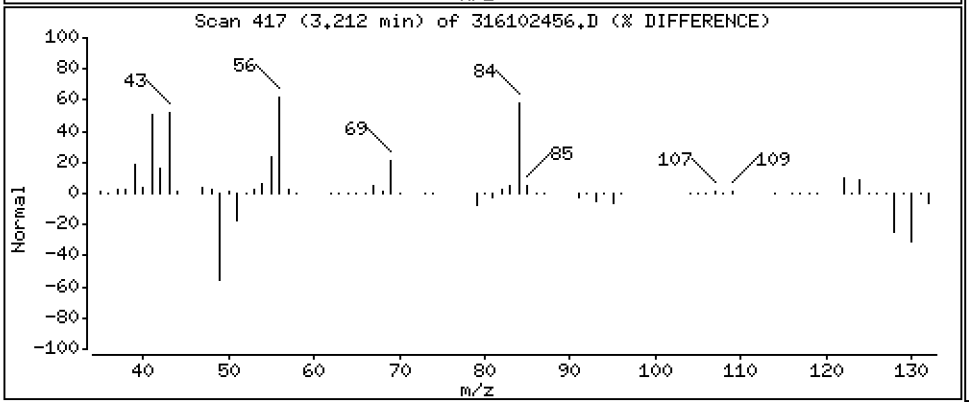
Column phase: DB-VRX Column diameter: 0.25

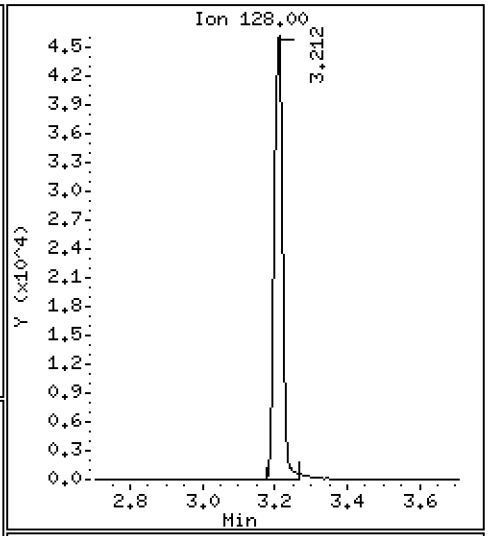
34 Bromochloromethane Concentration: 19.1182 ug/L

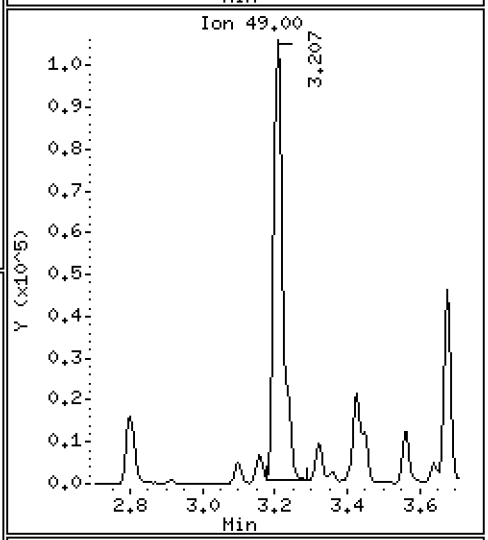


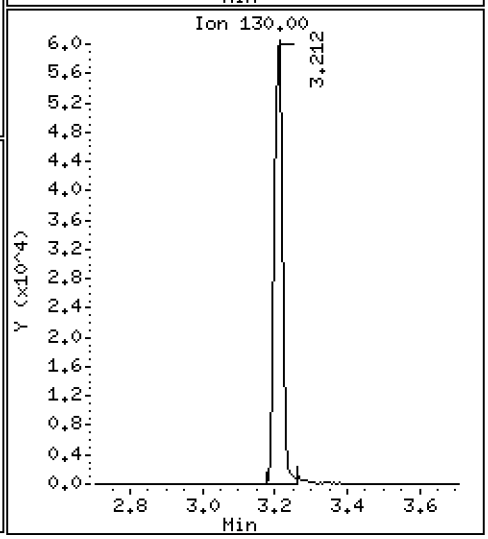












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 43

Date : 25-OCT-2016 00:30

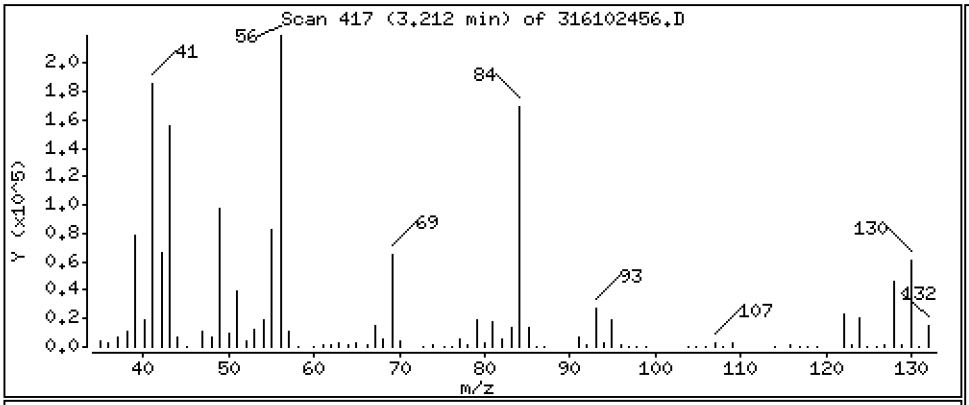
Client ID: Instrument: ms03.i

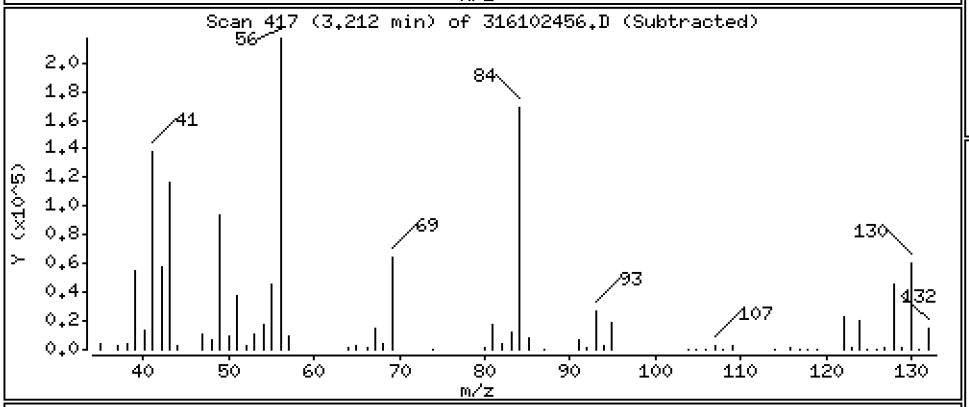
Sample Info: 1236;;1;1;3;;;

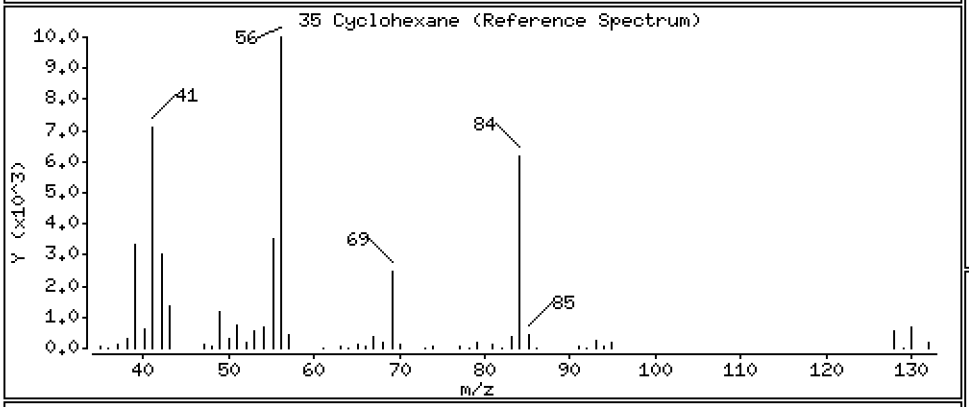
Purge Volume: 5.0 Operator: CJG

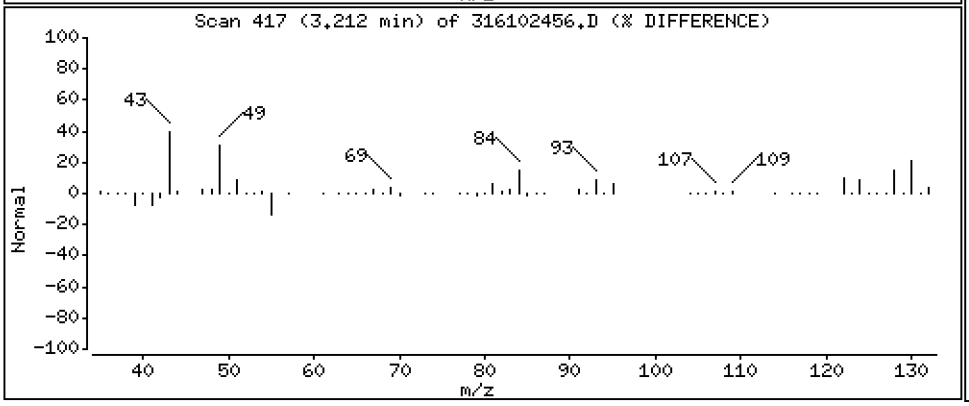
Column phase: DB-VRX Column diameter: 0.25

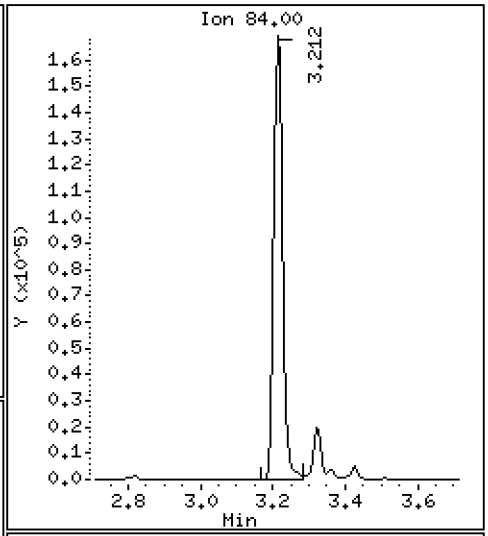
35 Cyclohexane Concentration: 22.8562 ug/L

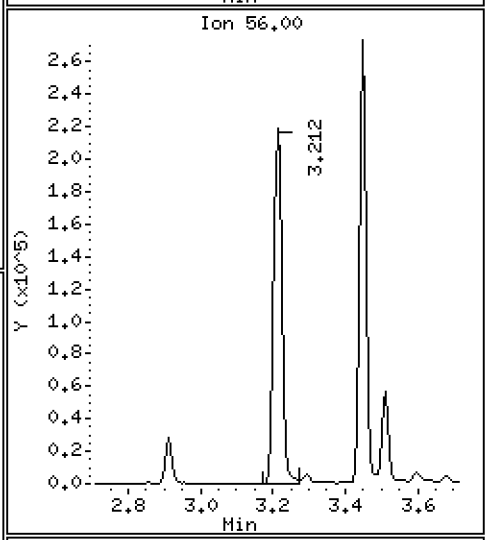


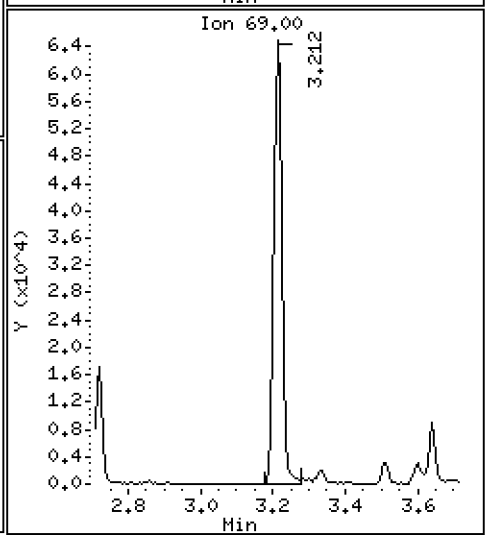












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 44

Date : 25-OCT-2016 00:30

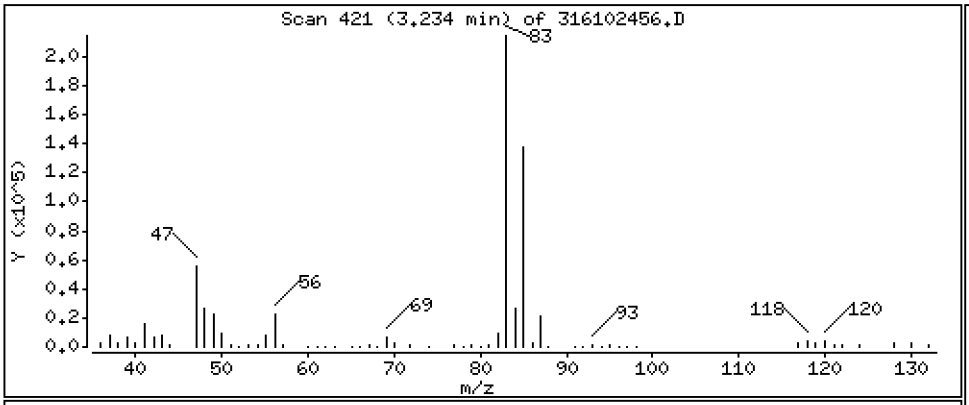
Client ID: Instrument: ms03.i

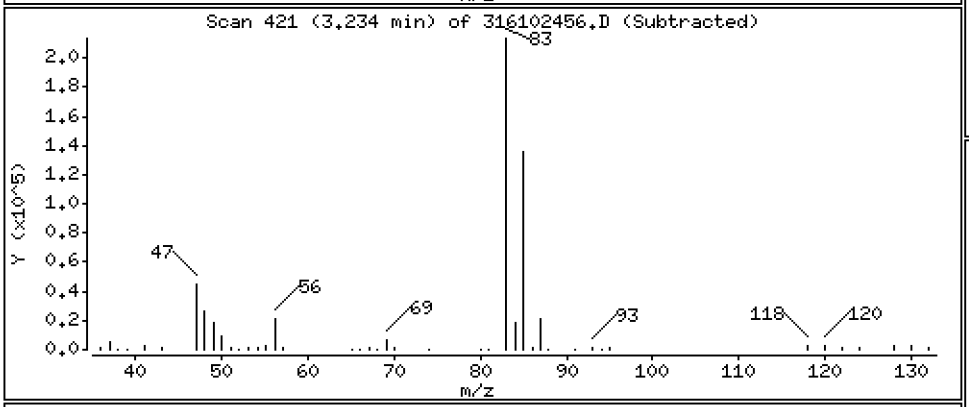
Sample Info: 1236;;1;1;3;;;

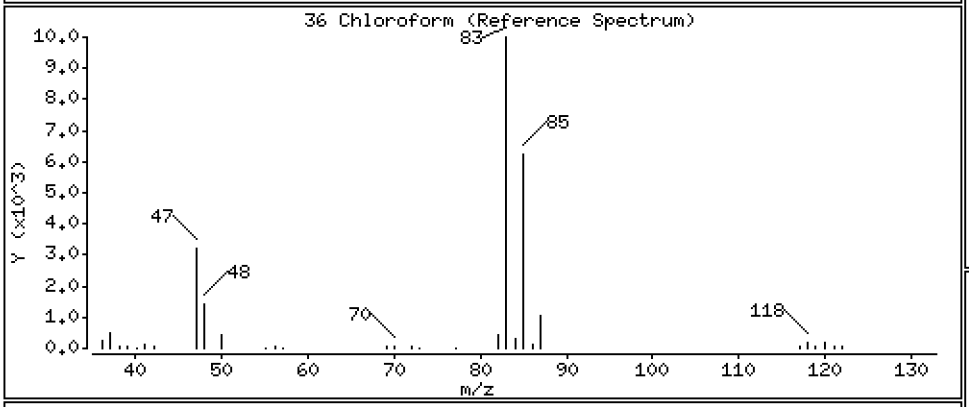
Purge Volume: 5.0 Operator: CJG

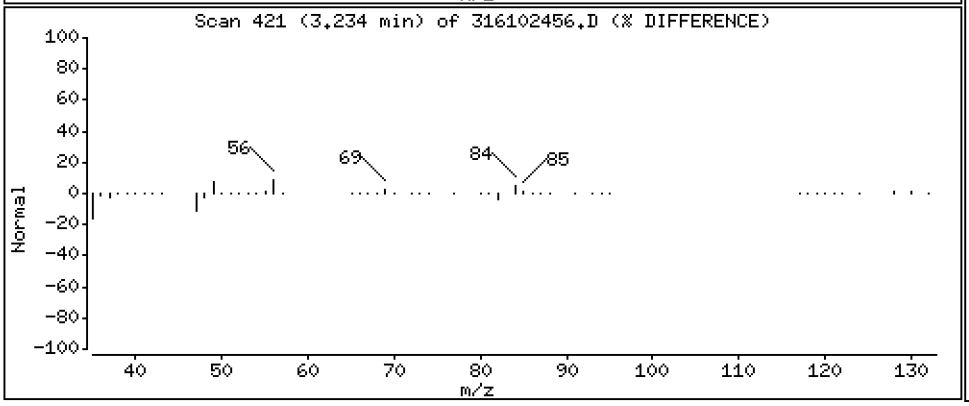
Column phase: DB-VRX Column diameter: 0.25

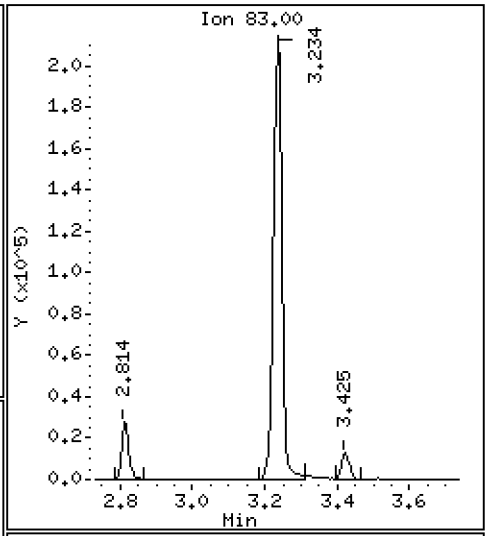
36 Chloroform Concentration: 21.1711 ug/L

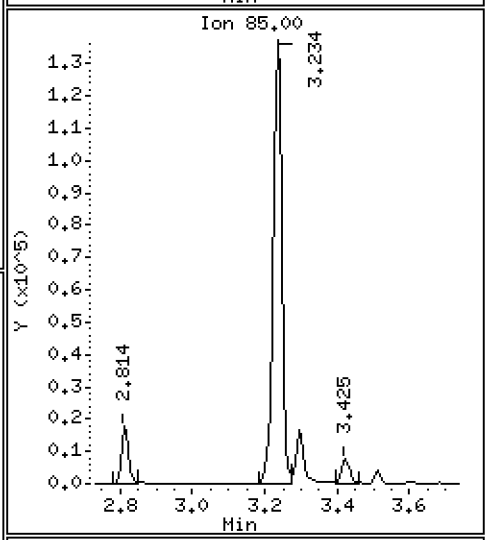


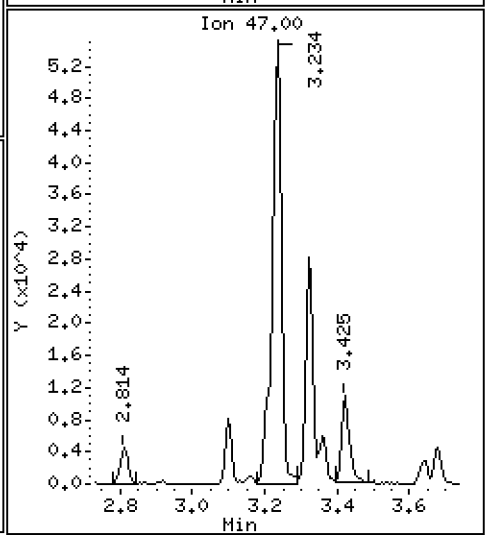












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 45

Date : 25-OCT-2016 00:30

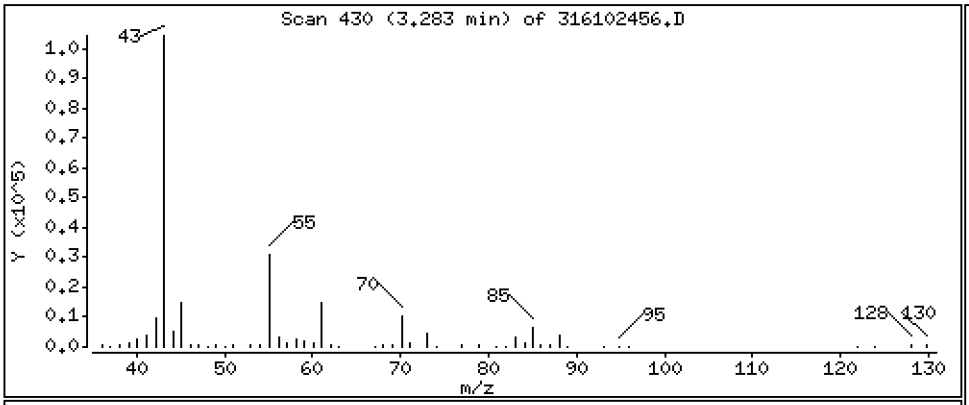
Client ID: Instrument: ms03.i

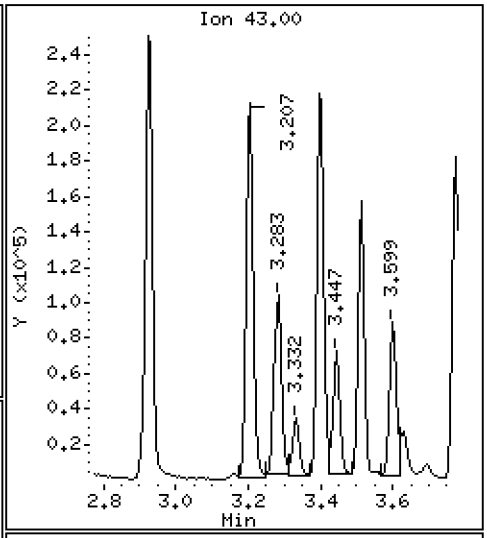
Sample Info: 1236;;1;1;3;;;

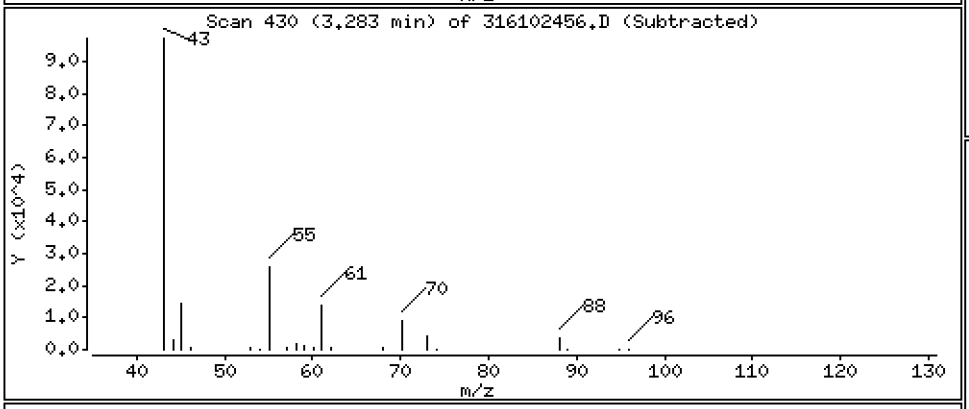
Purge Volume: 5.0 Operator: CJG

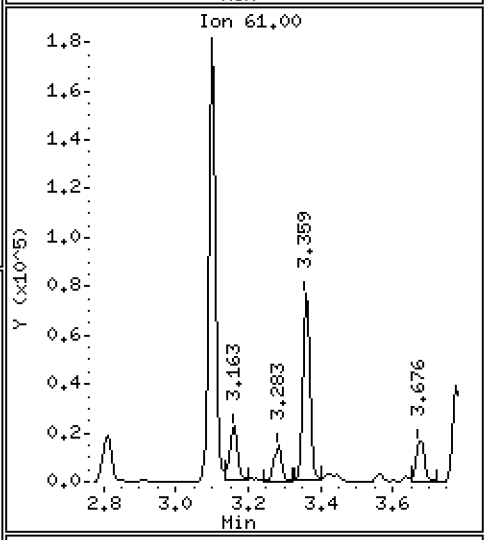
Column phase: DB-VRX Column diameter: 0.25

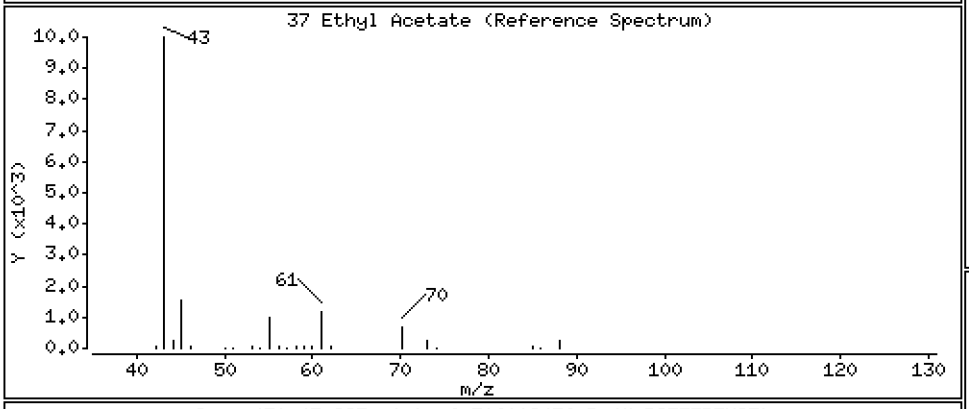
37 Ethyl Acetate Concentration: 18.3061 ug/L

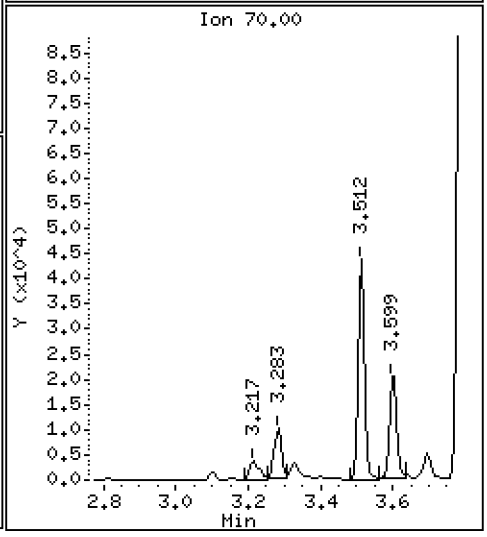


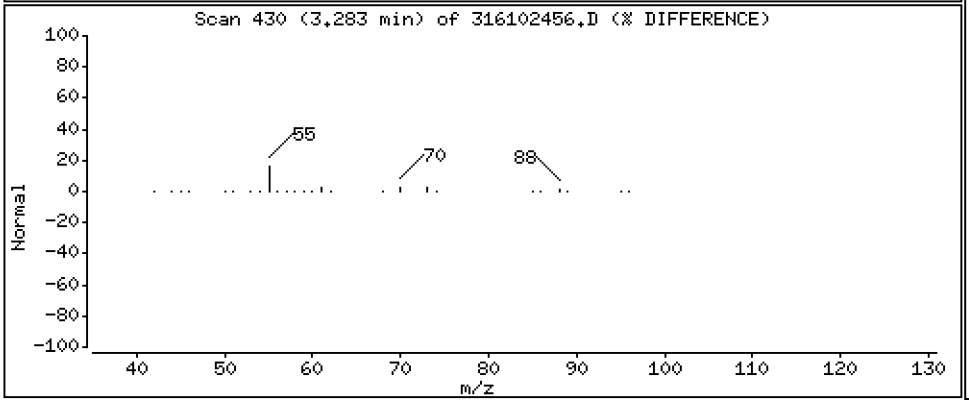












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 46

Date : 25-OCT-2016 00:30

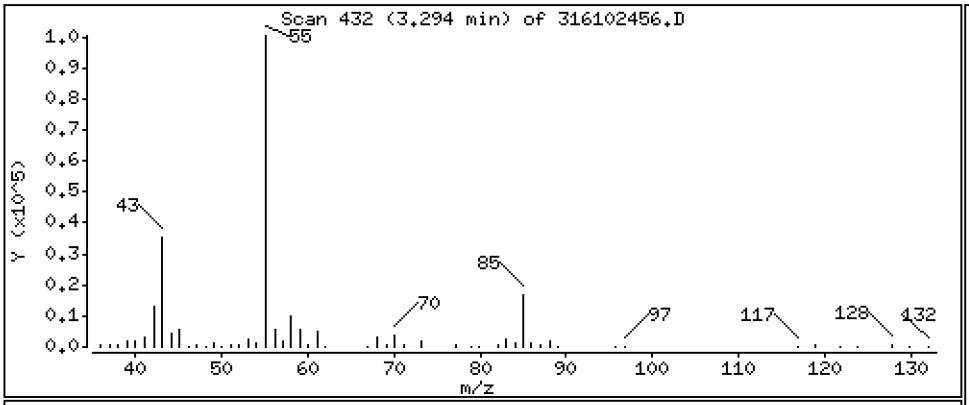
Client ID: Instrument: ms03.i

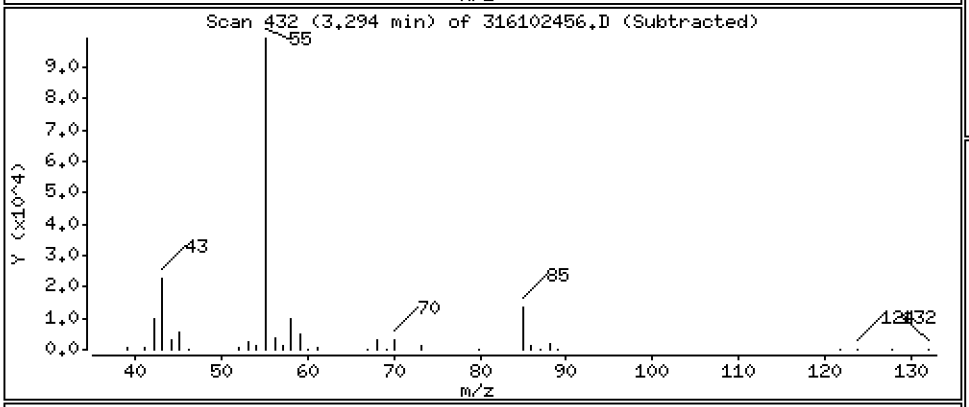
Sample Info: 1236;;1;1;3;;;

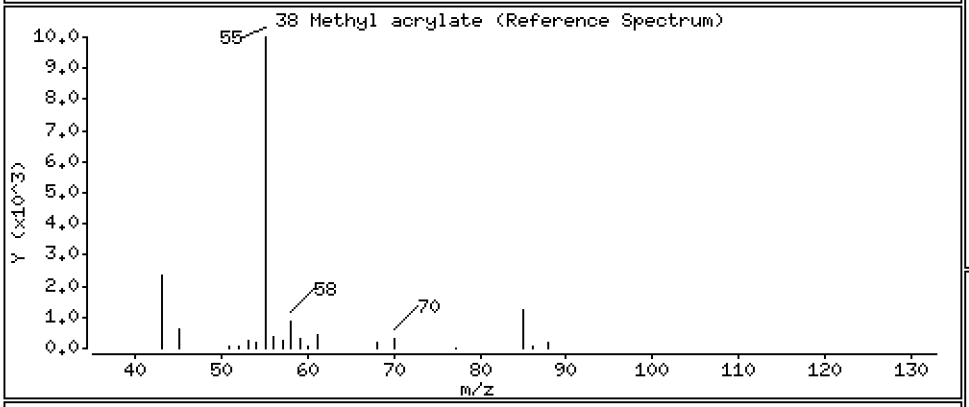
Purge Volume: 5.0 Operator: CJG

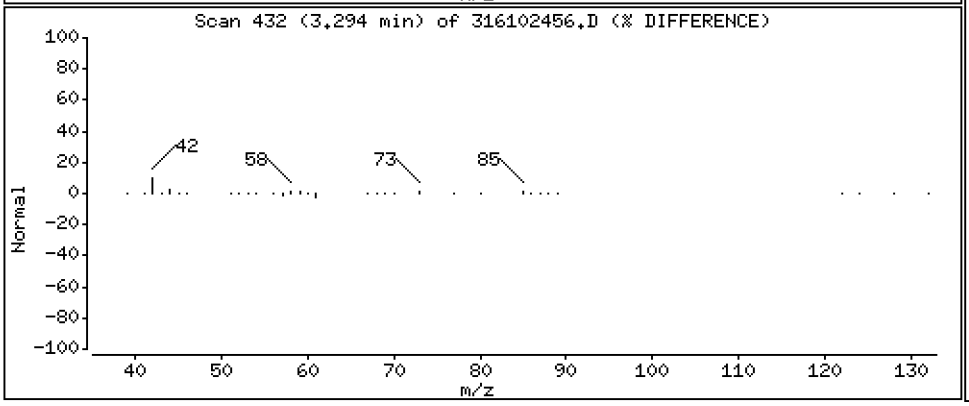
Column phase: DB-VRX Column diameter: 0.25

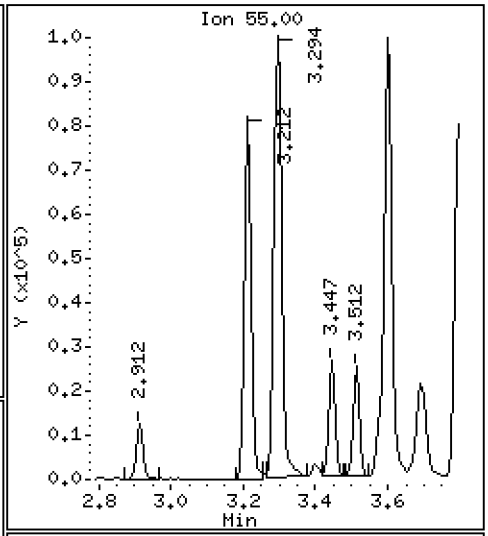
38 Methyl acrylate Concentration: 19.5381 ug/L

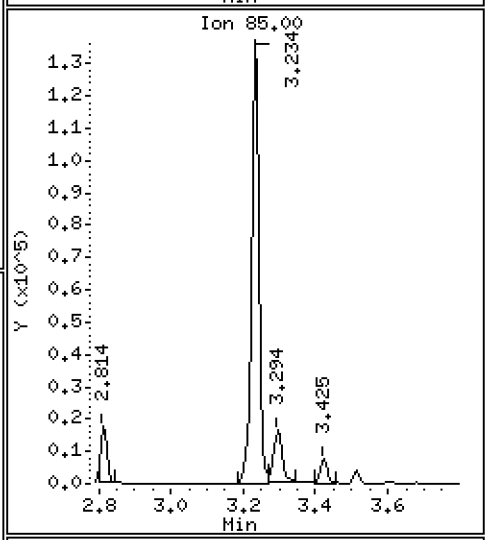


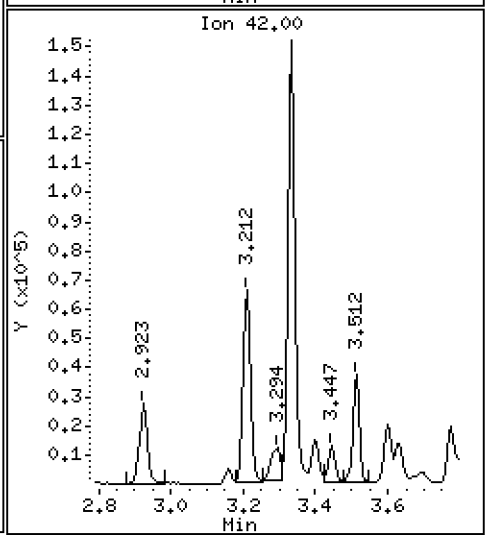












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 47

Date : 25-OCT-2016 00:30

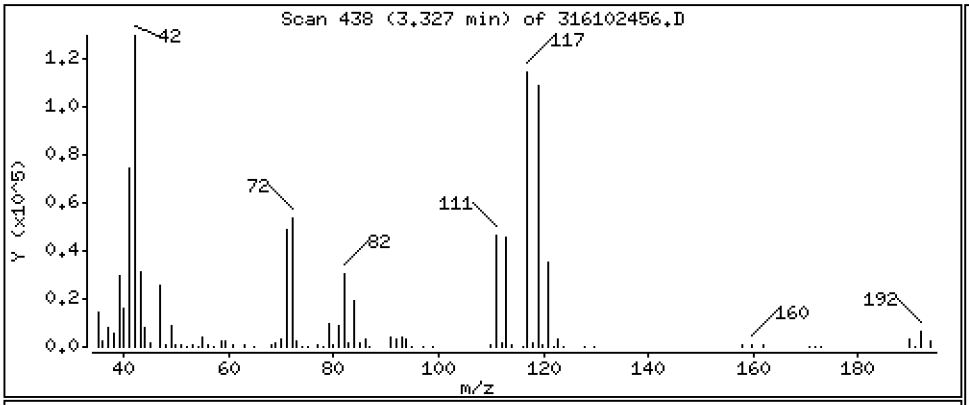
Client ID: Instrument: ms03.i

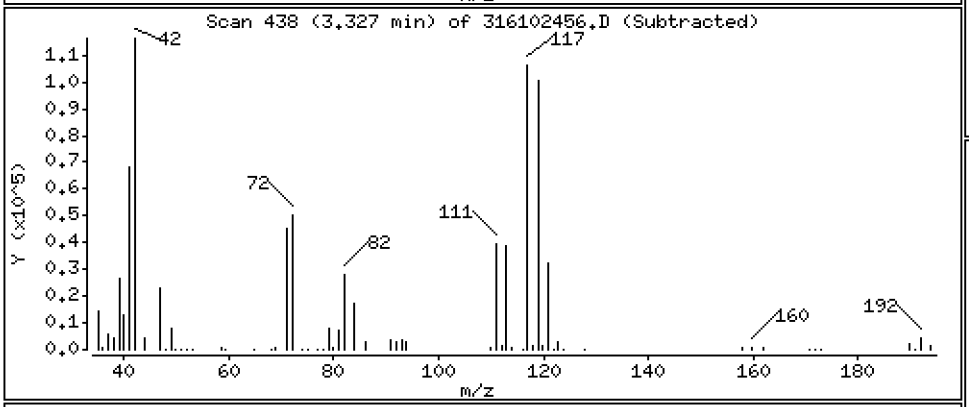
Sample Info: 1236;;1;1;3;;;

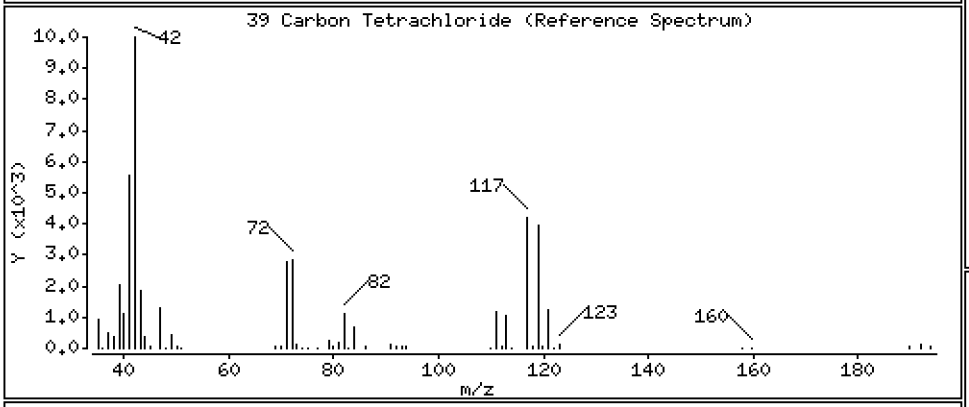
Purge Volume: 5.0 Operator: CJG

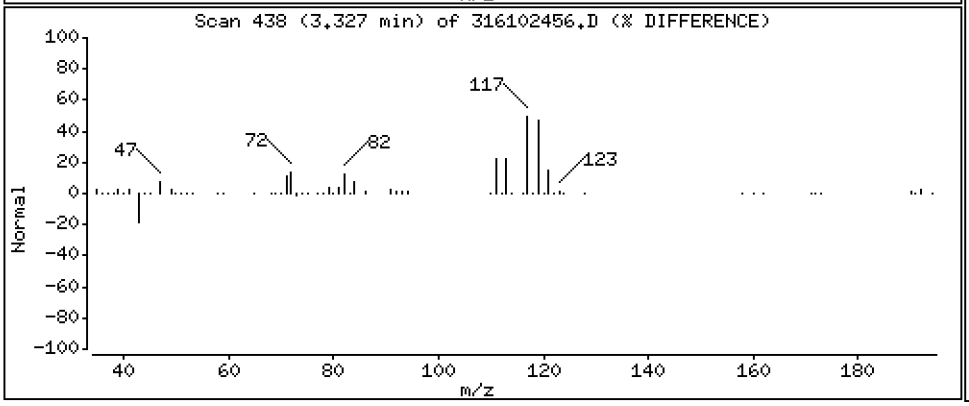
Column phase: DB-VRX Column diameter: 0.25

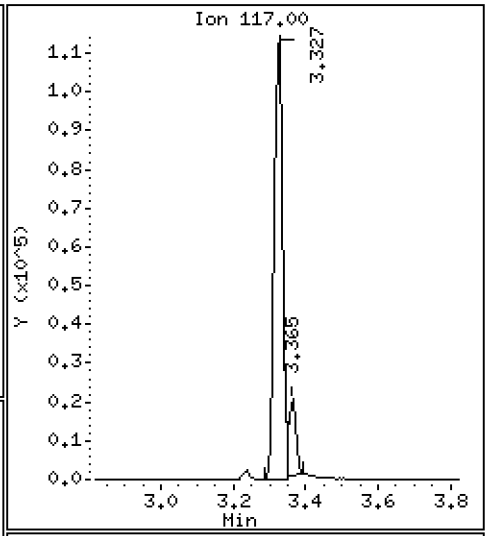
39 Carbon Tetrachloride Concentration: 20.8101 ug/L

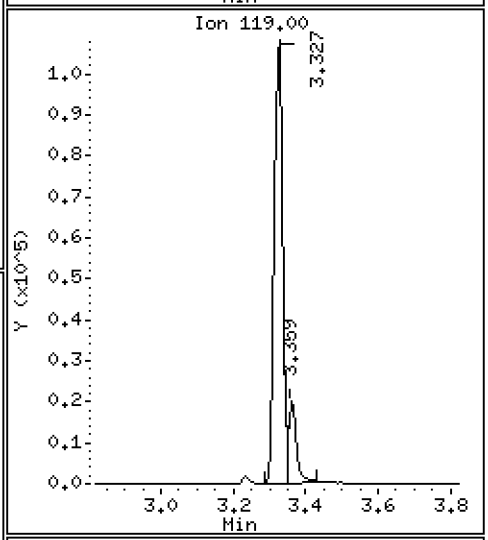


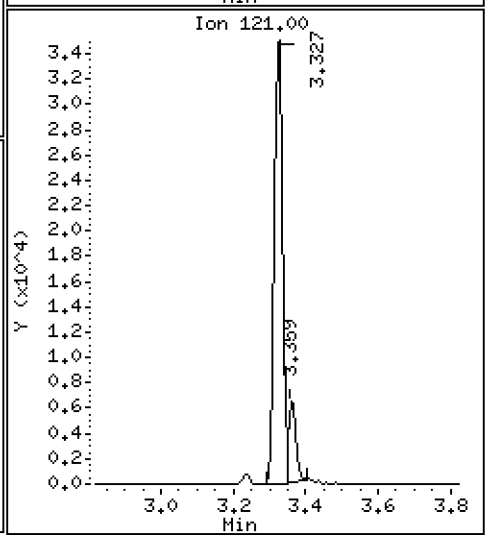












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 48

Date : 25-OCT-2016 00:30

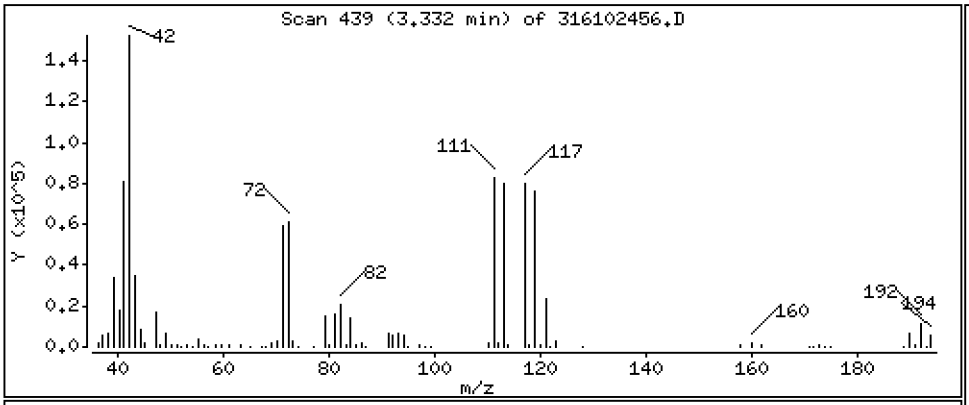
Client ID: Instrument: ms03.i

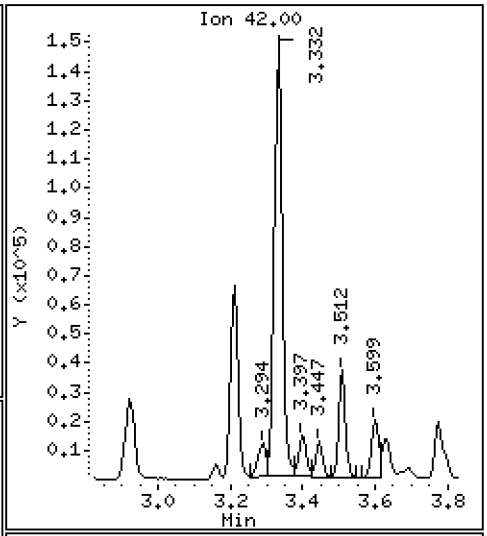
Sample Info: 1236;;1;1;3;;;

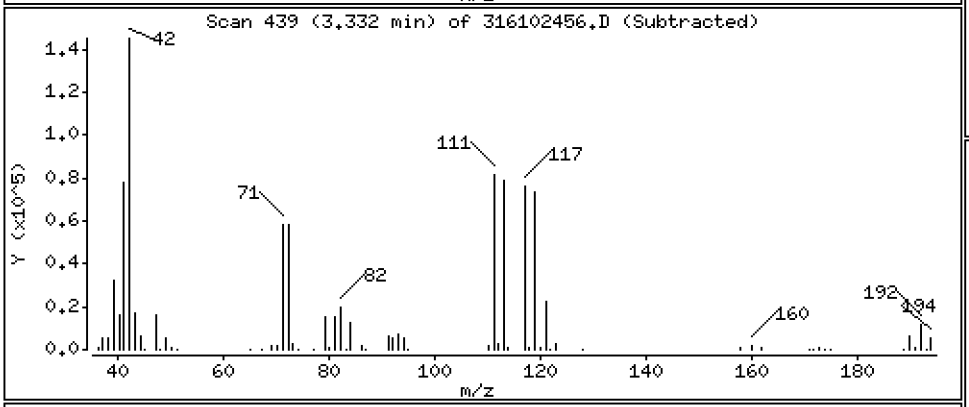
Purge Volume: 5.0 Operator: CJG

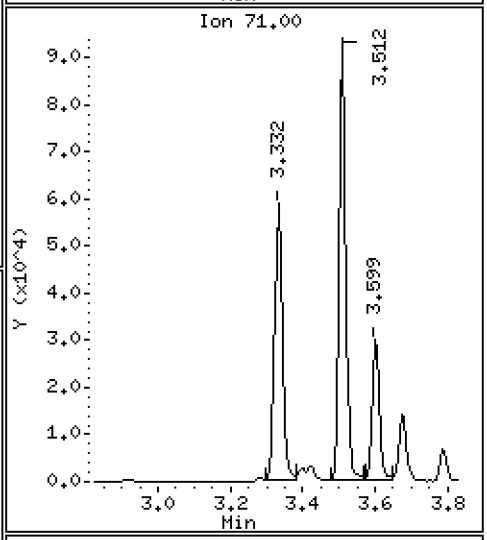
Column phase: DB-VRX Column diameter: 0.25

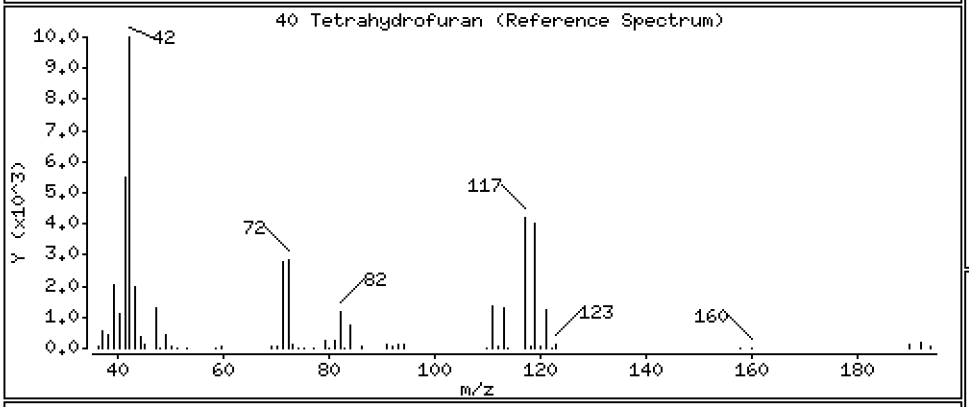
40 Tetrahydrofuran Concentration: 96.3786 ug/L

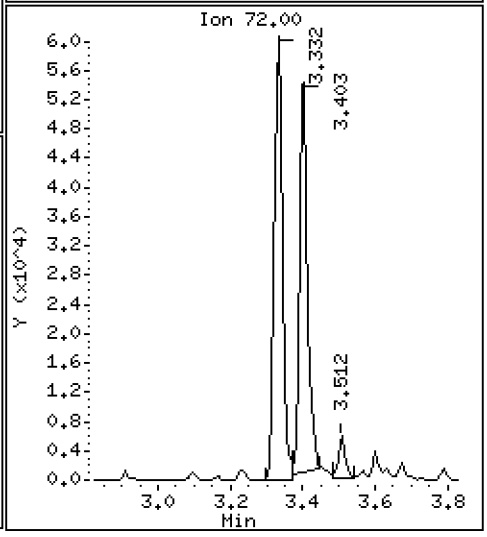


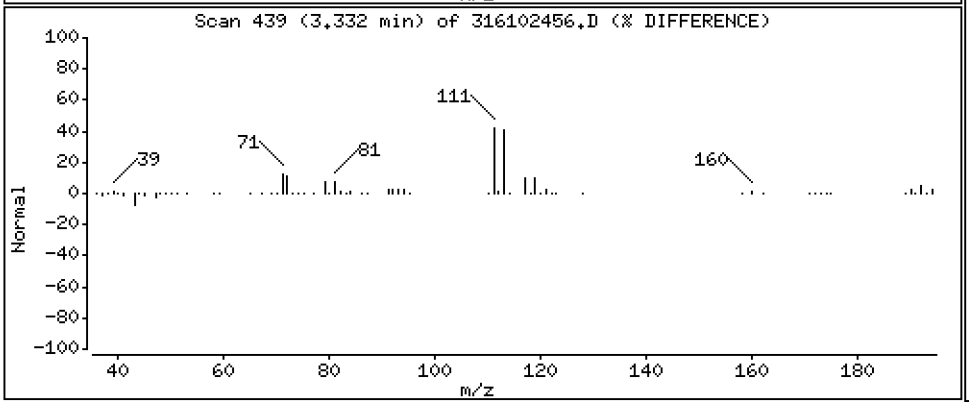












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 49

Date : 25-OCT-2016 00:30

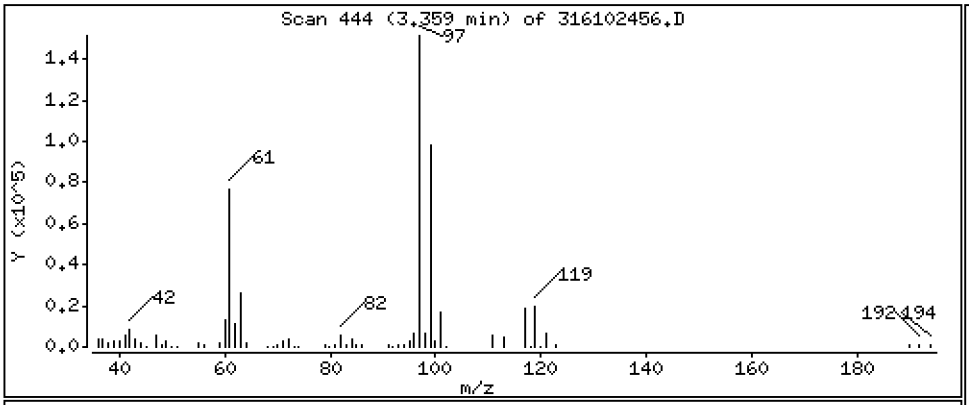
Client ID: Instrument: ms03.i

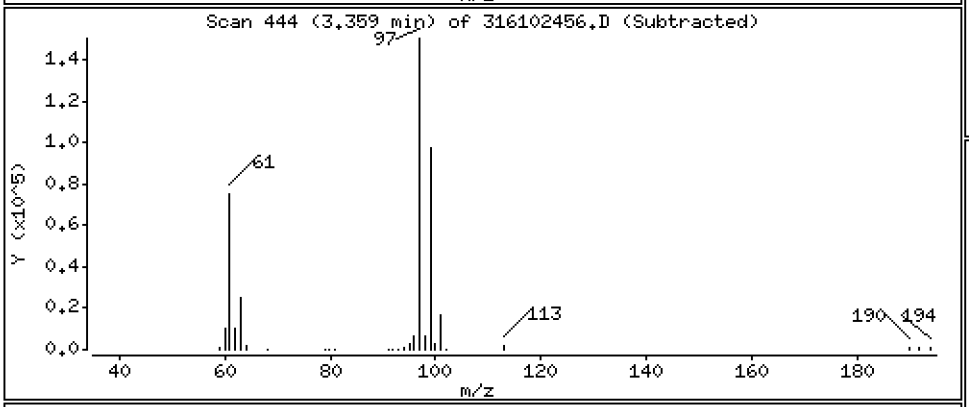
Sample Info: 1236;;1;1;3;;;

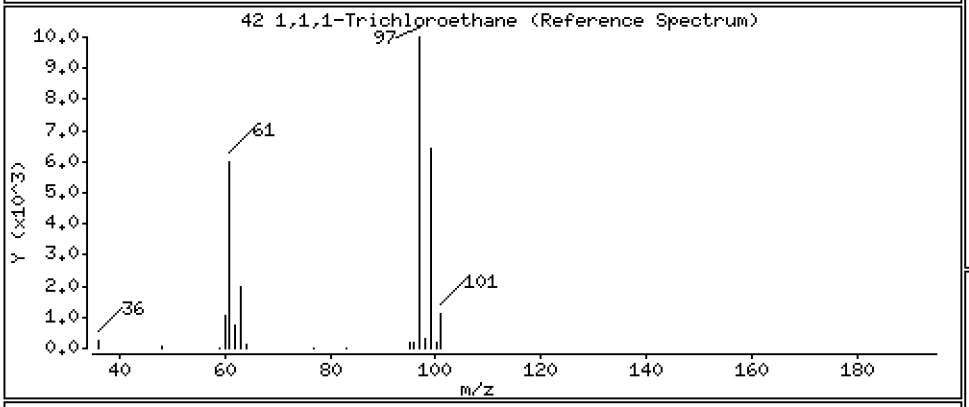
Purge Volume: 5.0 Operator: CJG

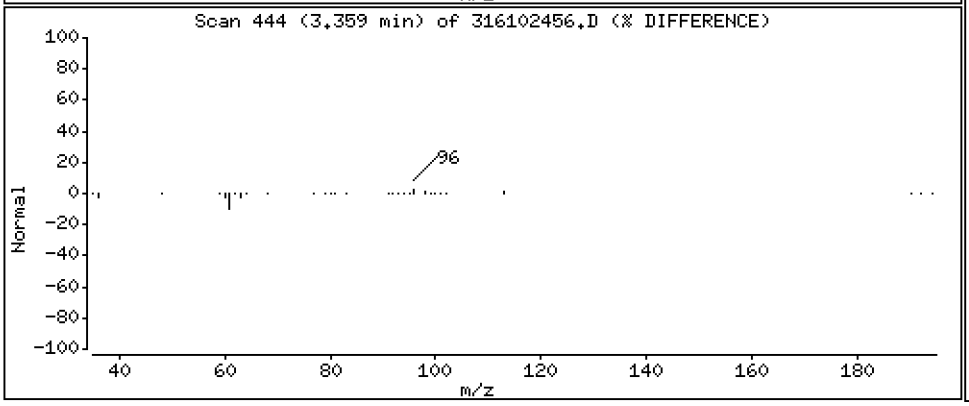
Column phase: DB-VRX Column diameter: 0.25

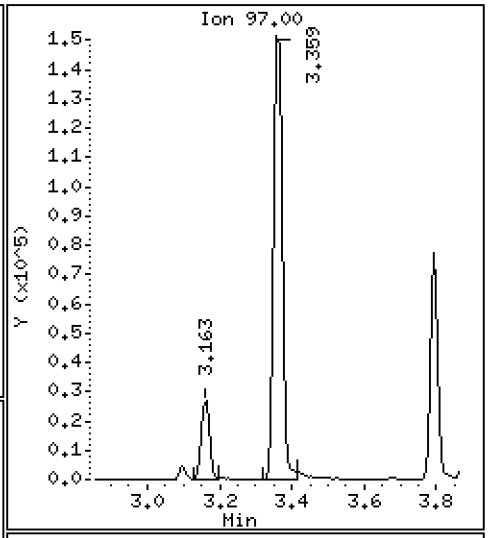
42 1,1,1-Trichloroethane Concentration: 20.5855 ug/L

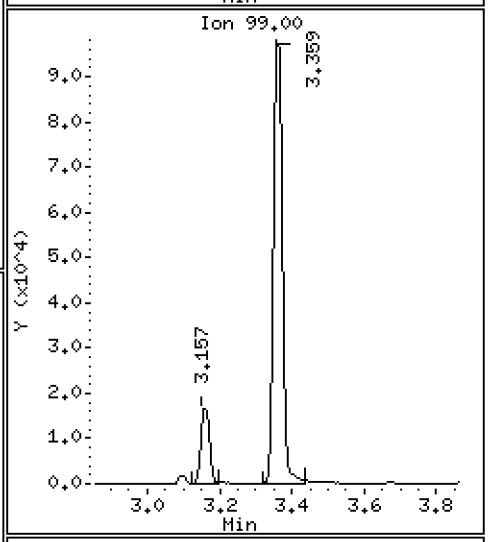


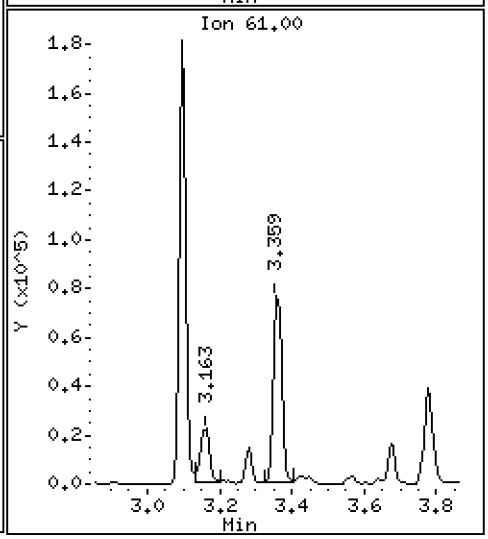












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 50

Date : 25-OCT-2016 00:30

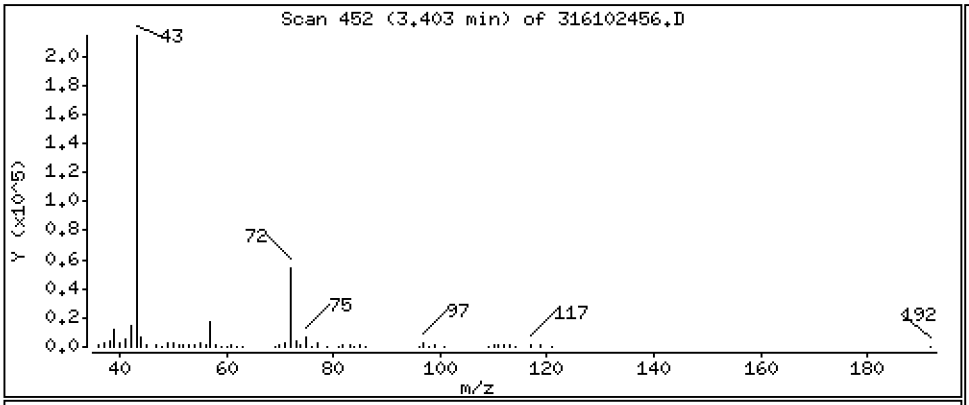
Client ID: Instrument: ms03.i

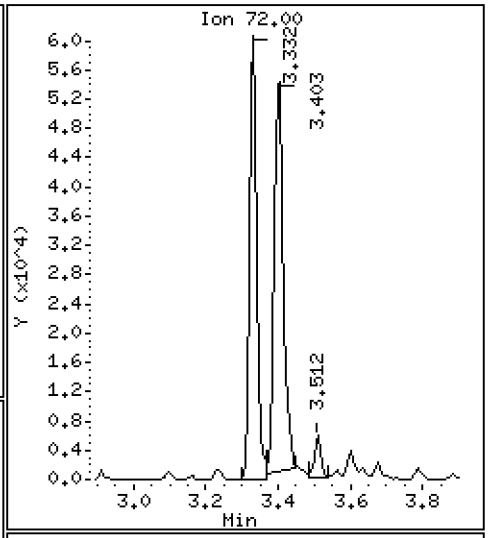
Sample Info: 1236;;1;1;3;;;

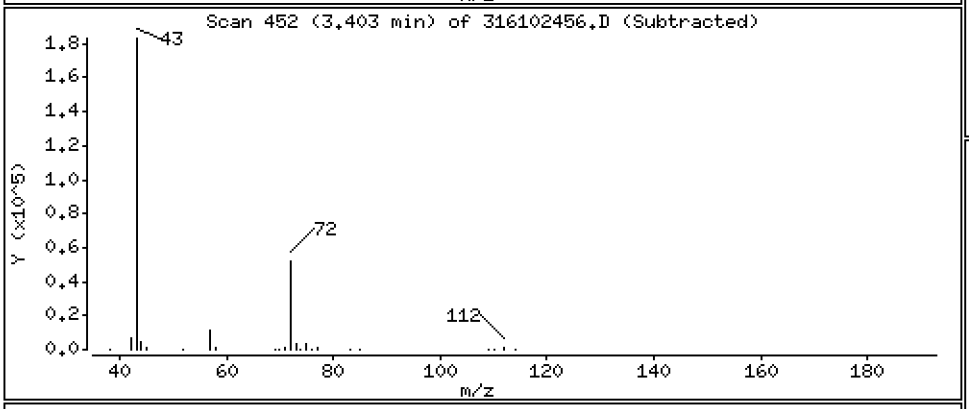
Purge Volume: 5.0 Operator: CJG

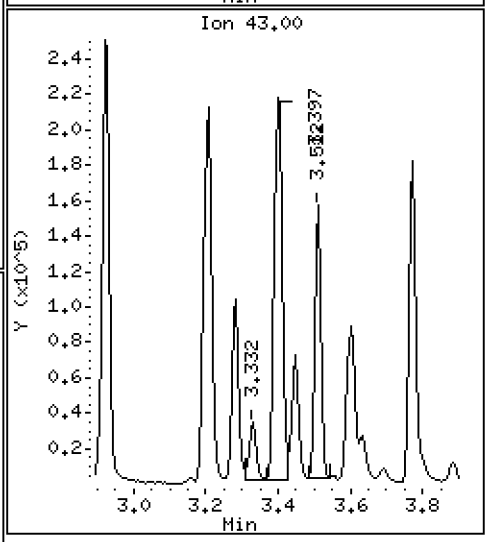
Column phase: DB-VRX Column diameter: 0.25

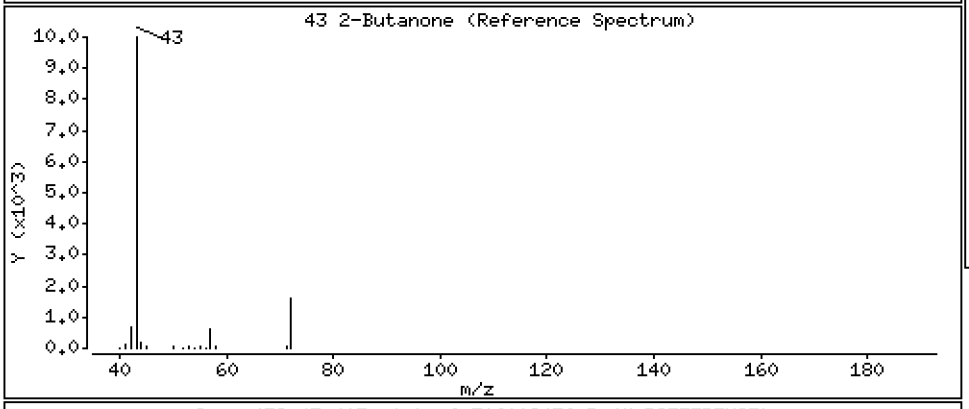
43 2-Butanone Concentration: 92.2137 ug/L

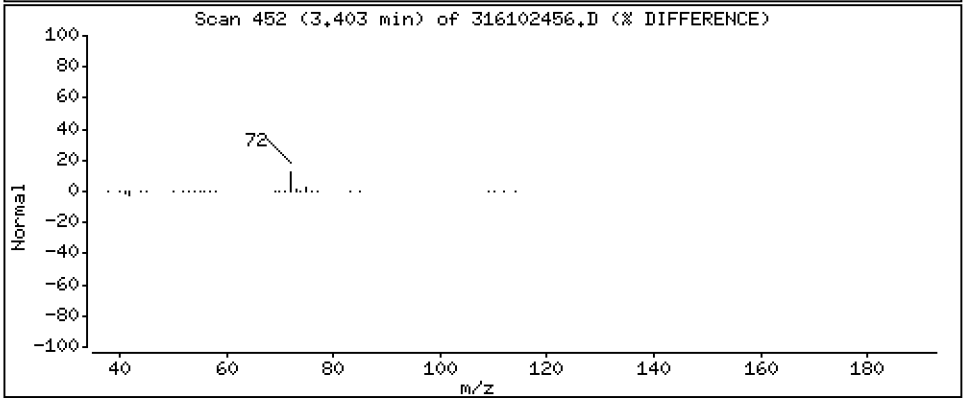












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 51

Date : 25-OCT-2016 00:30

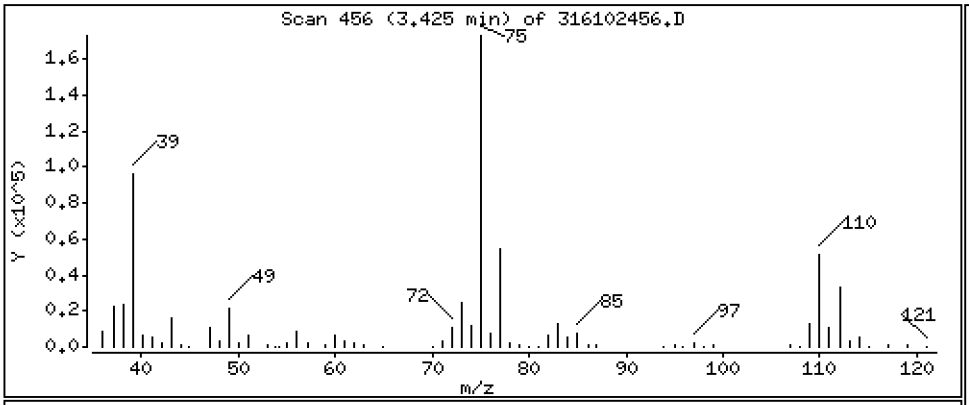
Client ID: Instrument: ms03.i

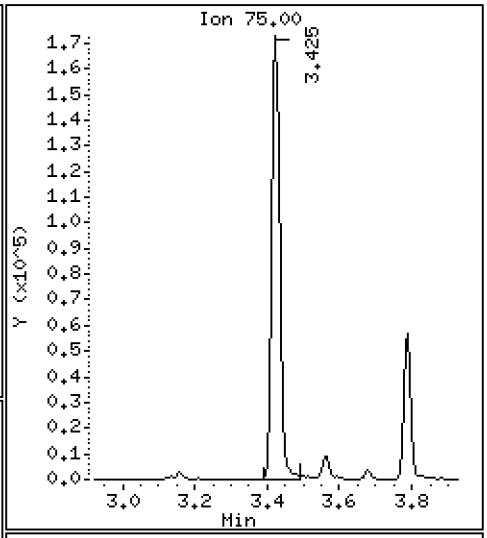
Sample Info: 1236;;1;1;3;;;

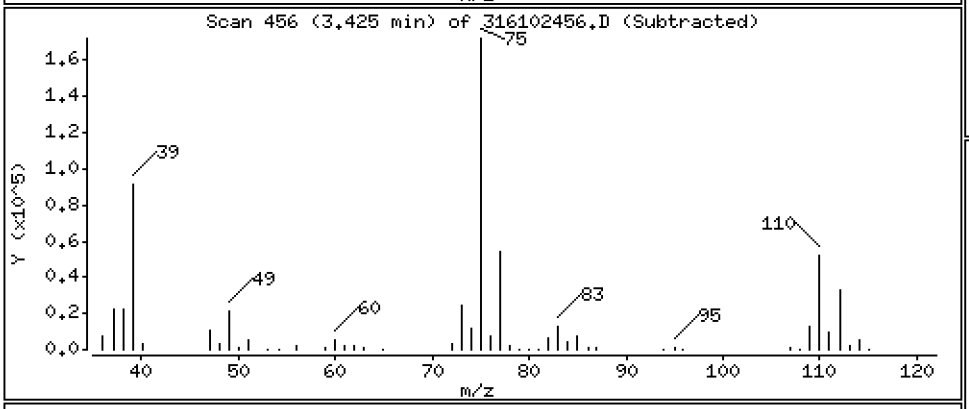
Purge Volume: 5.0 Operator: CJG

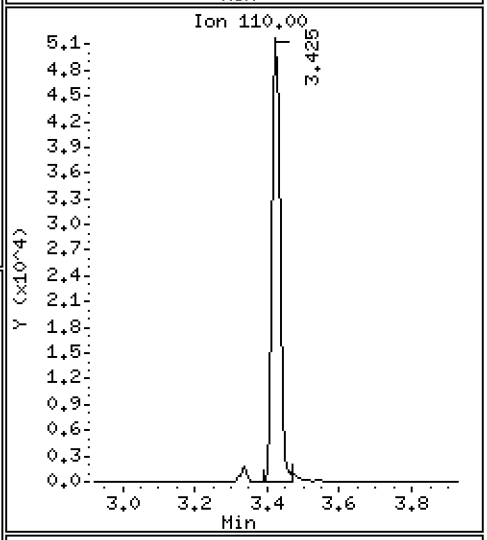
Column phase: DB-VRX Column diameter: 0.25

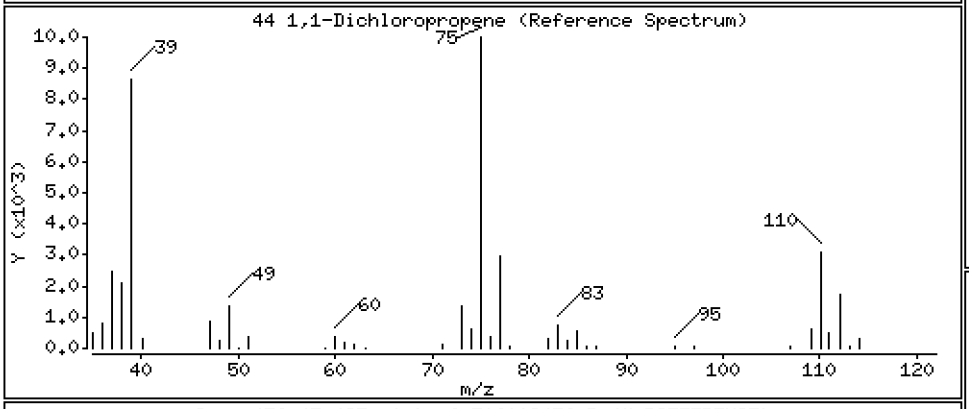
44 1,1-Dichloropropene Concentration: 21.6280 ug/L

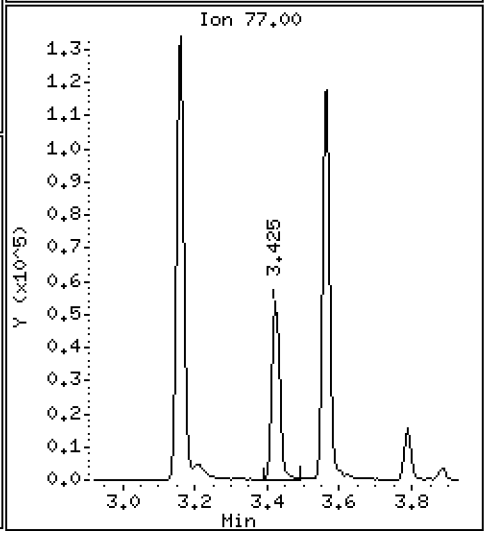


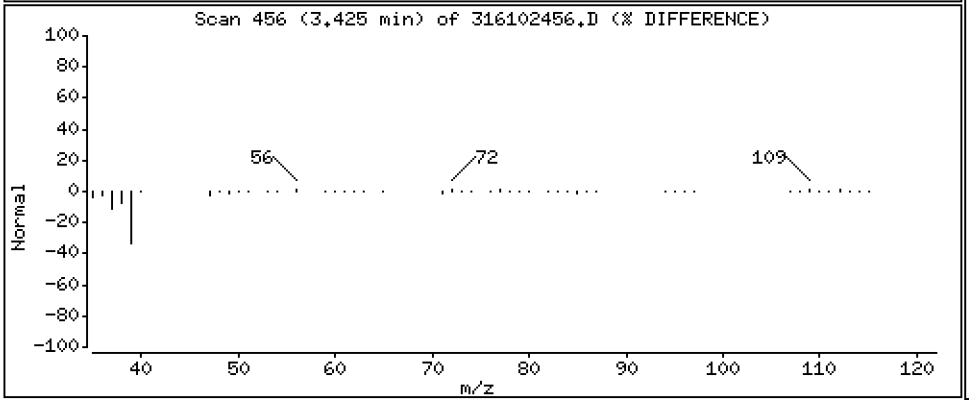












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 52

Date : 25-OCT-2016 00:30

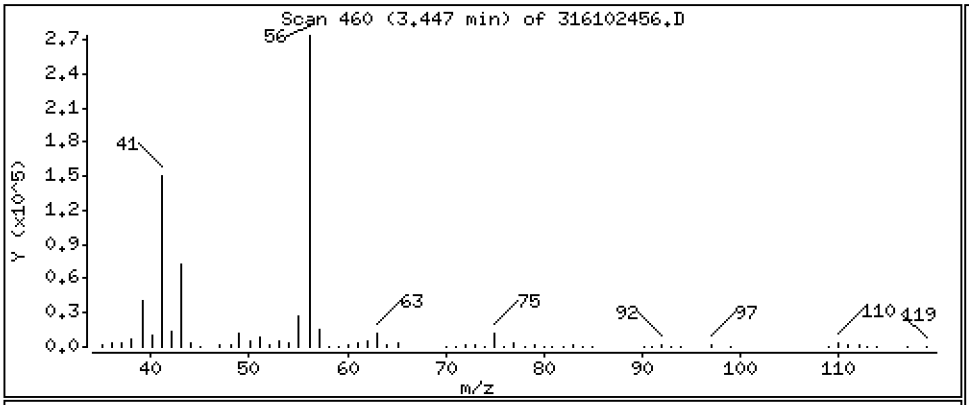
Client ID: Instrument: ms03.i

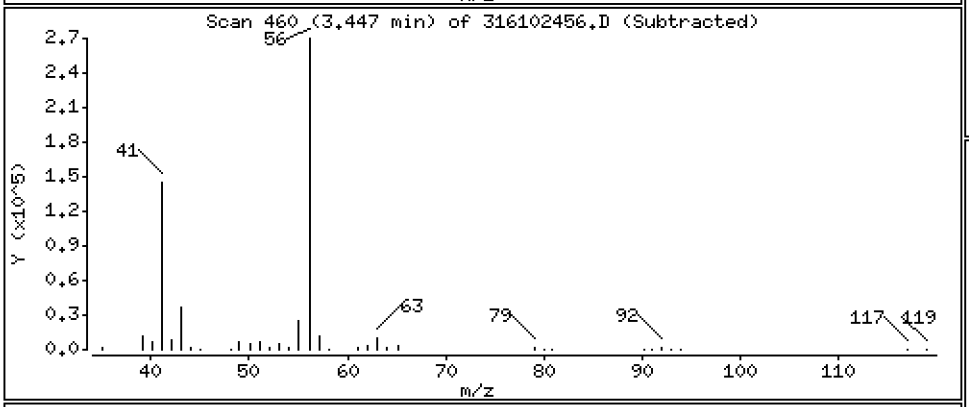
Sample Info: 1236;;1;1;3;;;

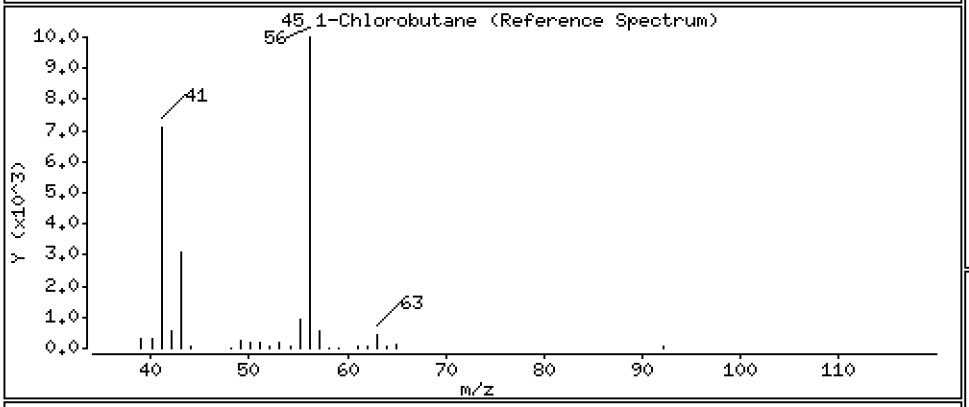
Purge Volume: 5.0 Operator: CJG

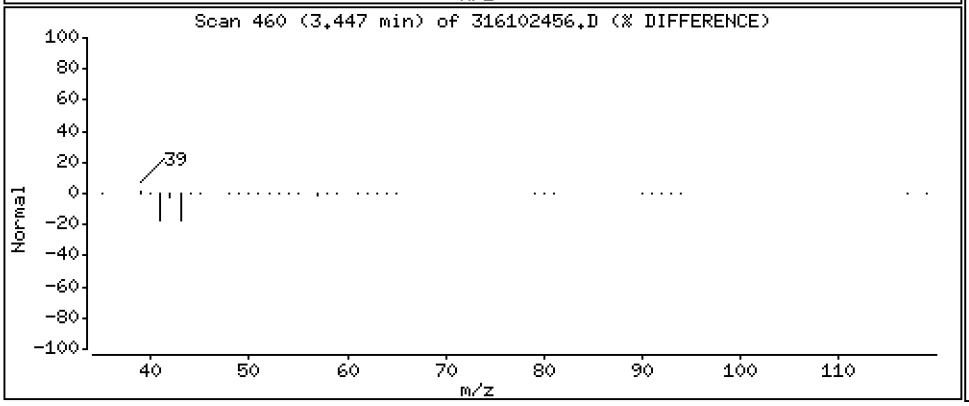
Column phase: DB-VRX Column diameter: 0.25

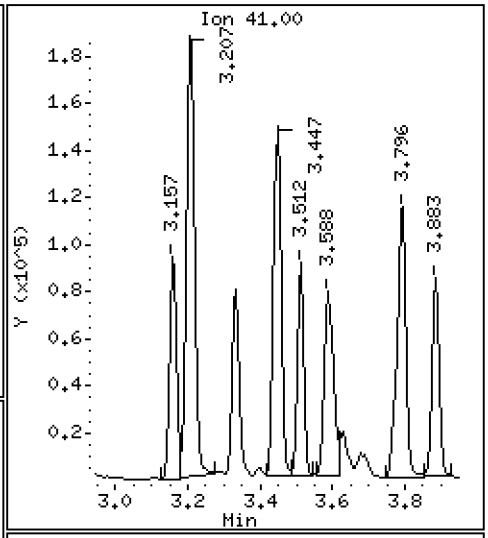
45 1-Chlorobutane Concentration: 21.9272 ug/L

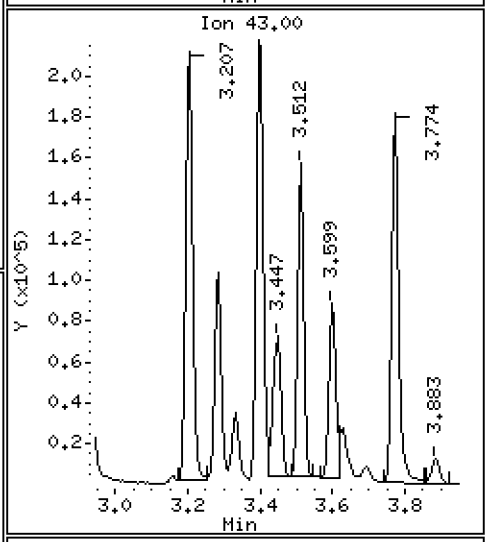


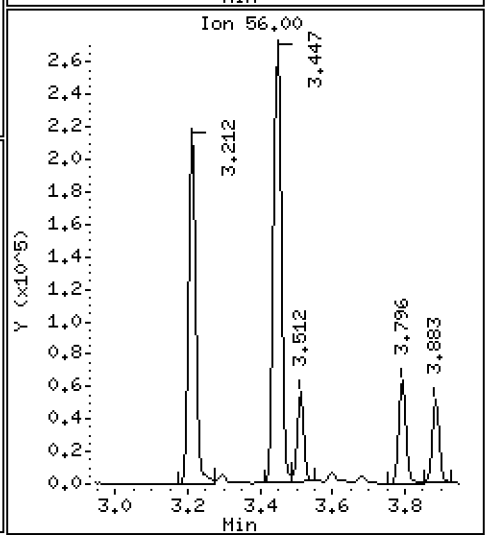












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 53

Date : 25-OCT-2016 00:30

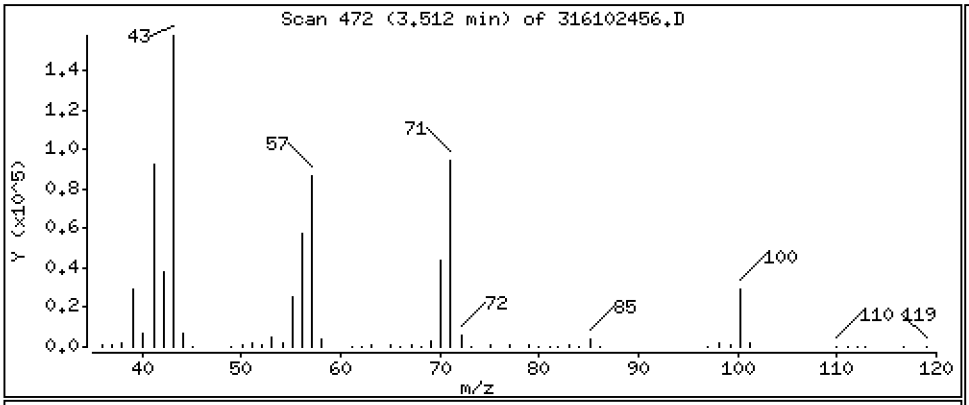
Client ID: Instrument: ms03.i

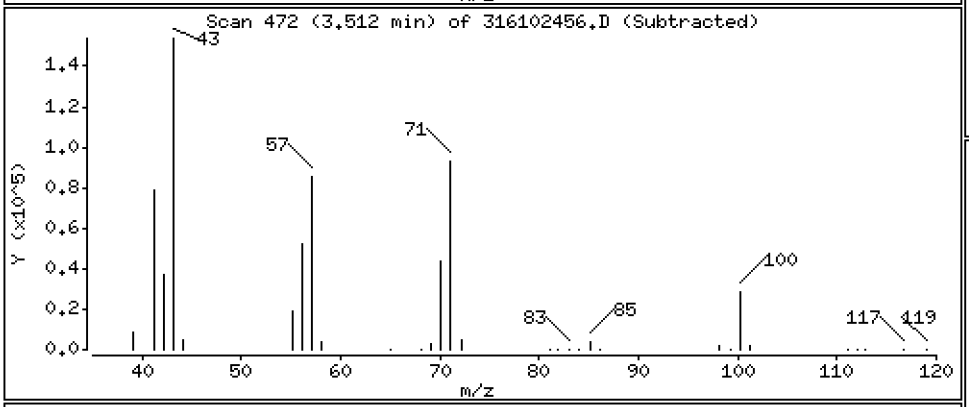
Sample Info: 1236;;1;1;3;;;

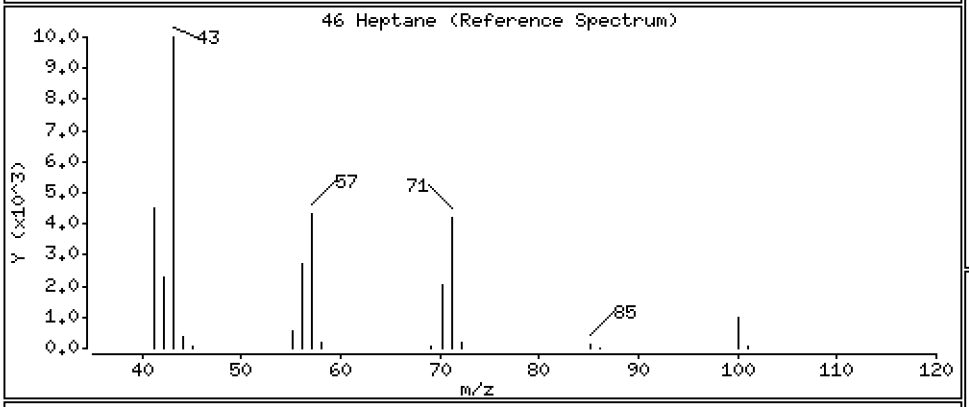
Purge Volume: 5.0 Operator: CJG

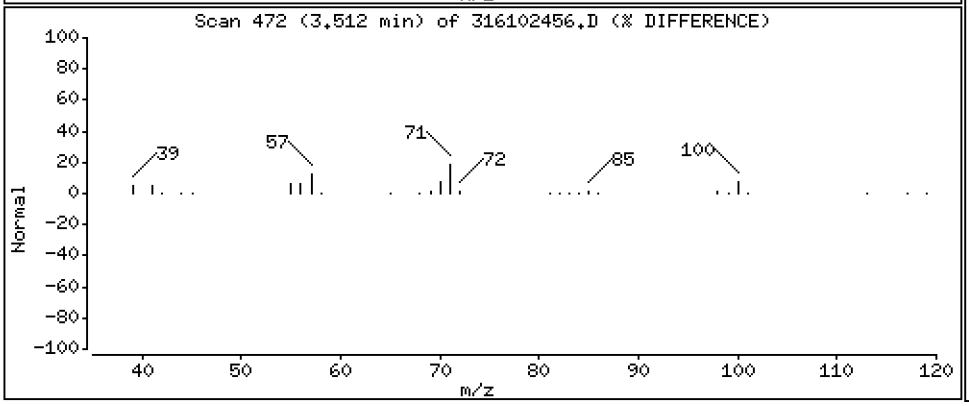
Column phase: DB-VRX Column diameter: 0.25

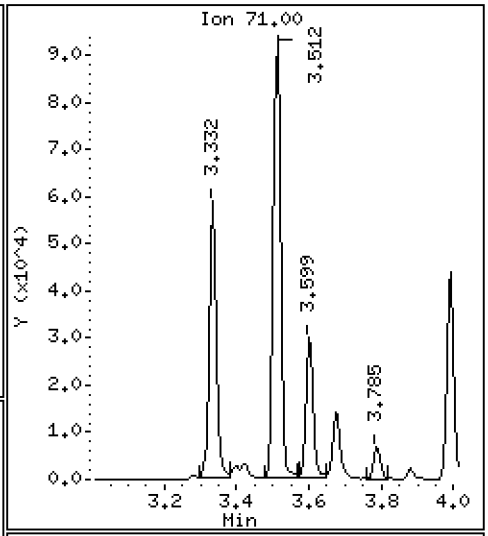
46 Heptane Concentration: 22.6231 ug/L

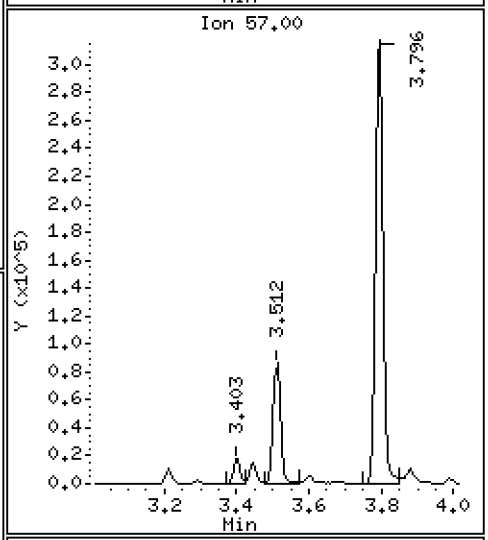


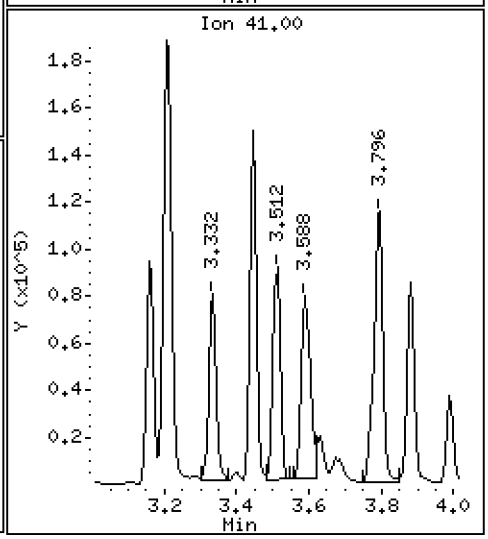












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 54

Date : 25-OCT-2016 00:30

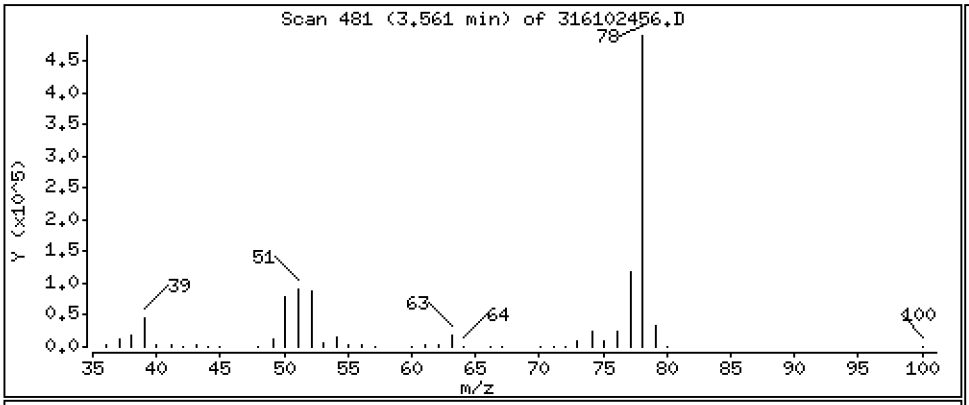
Client ID: Instrument: ms03.i

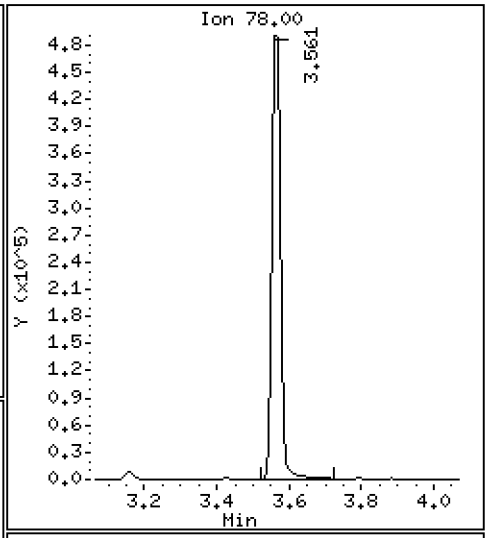
Sample Info: 1236;;1;1;3;;;

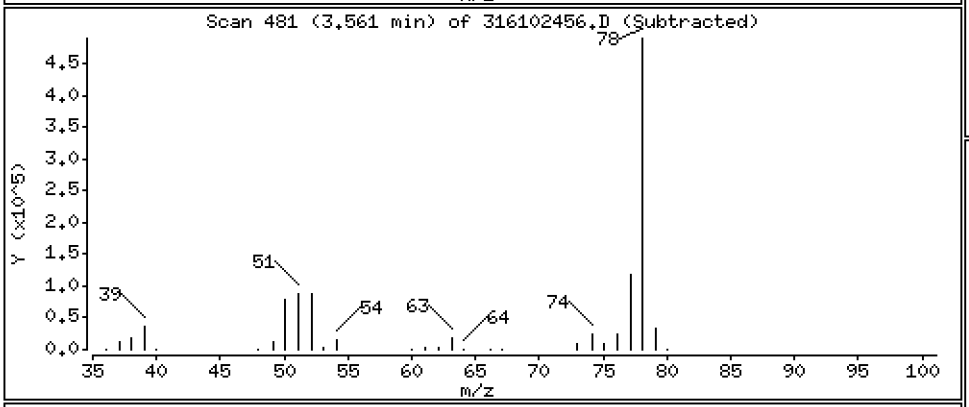
Purge Volume: 5.0 Operator: CJG

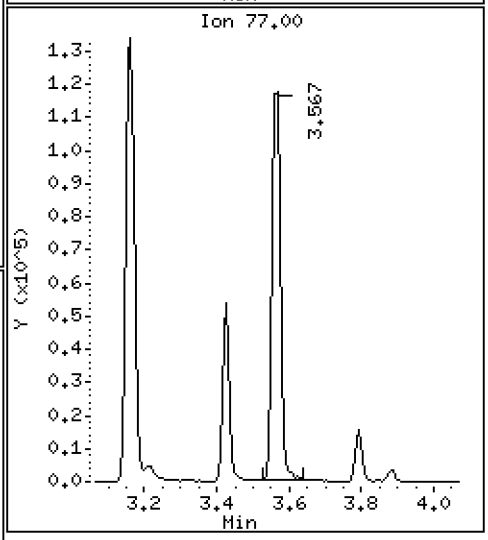
Column phase: DB-VRX Column diameter: 0.25

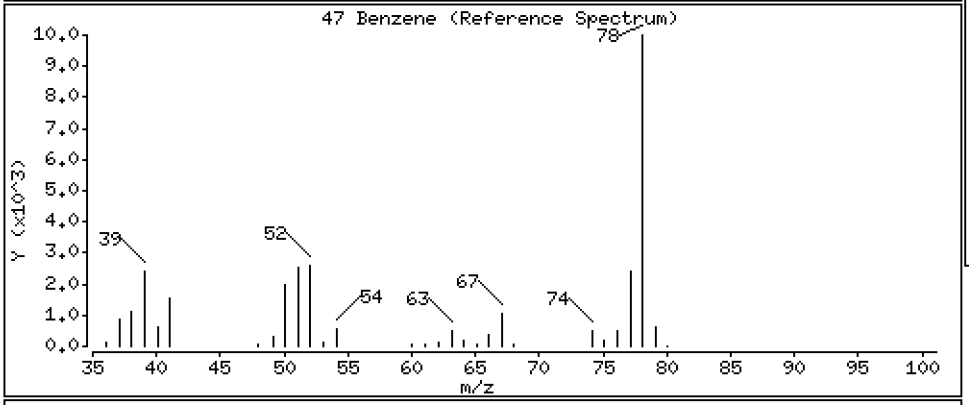
47 Benzene Concentration: 20.8952 ug/L

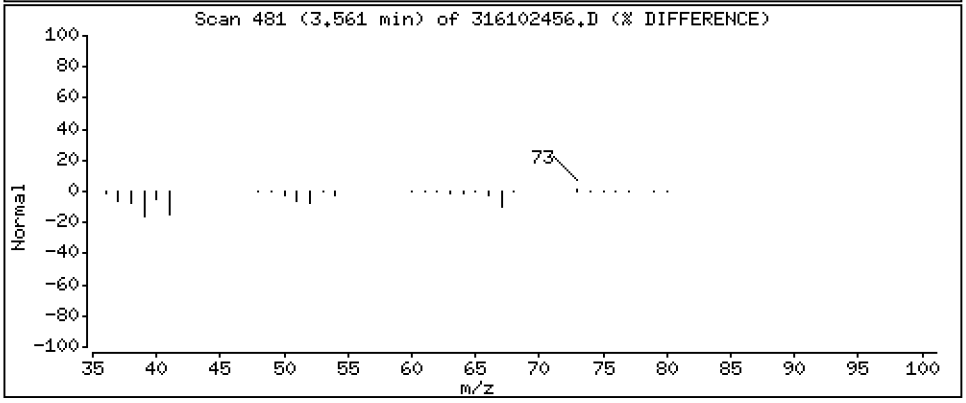












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 55

Date : 25-OCT-2016 00:30

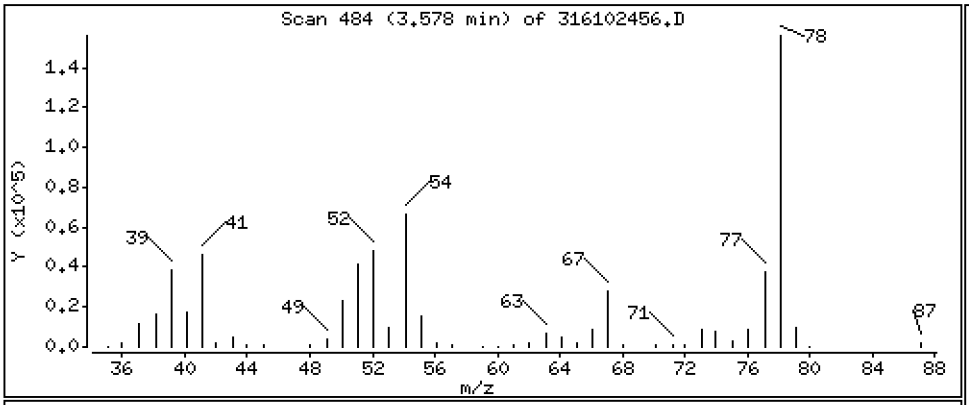
Client ID: Instrument: ms03.i

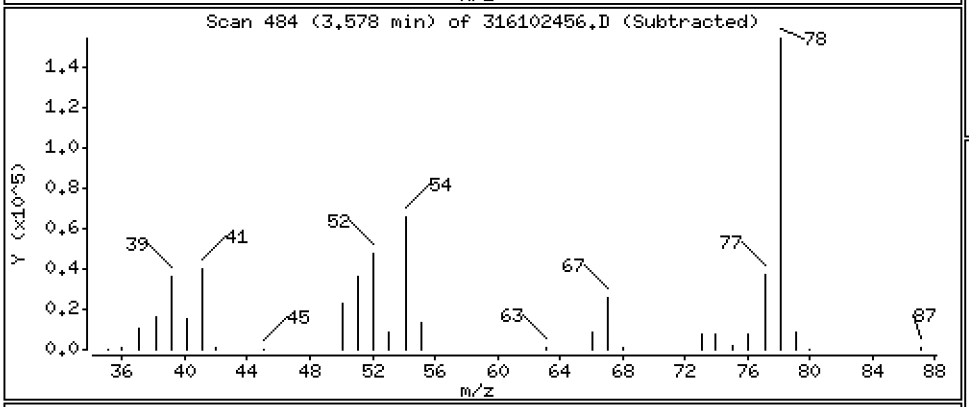
Sample Info: 1236;;1;1;3;;;

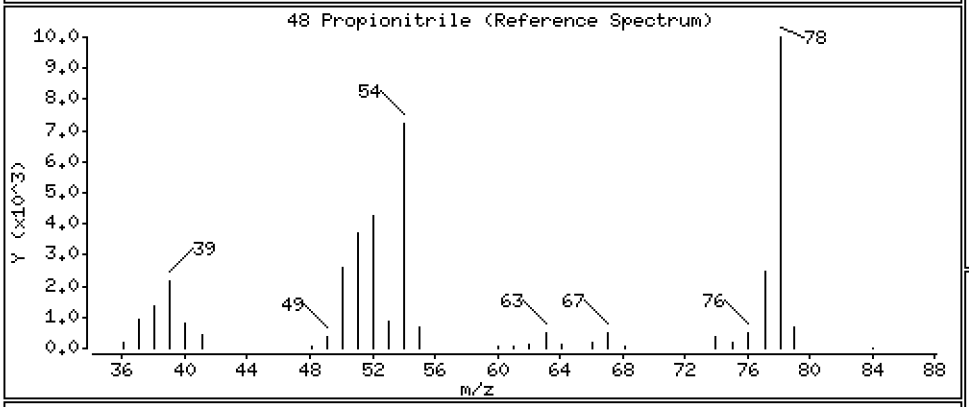
Purge Volume: 5.0 Operator: CJG

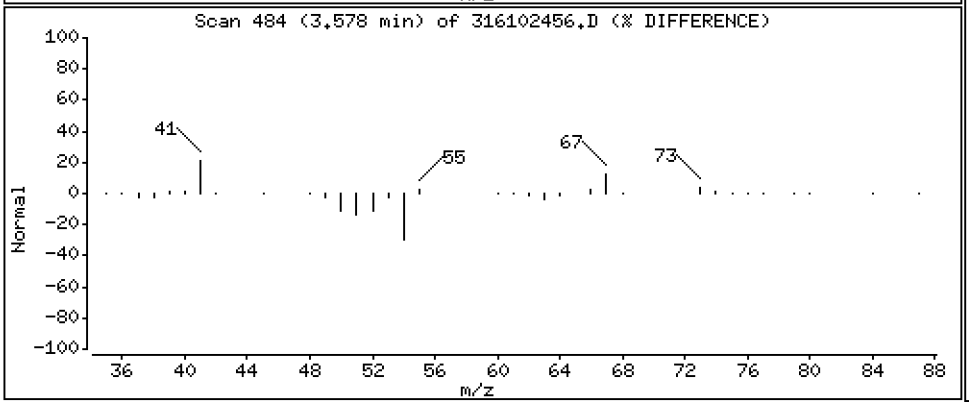
Column phase: DB-VRX Column diameter: 0.25

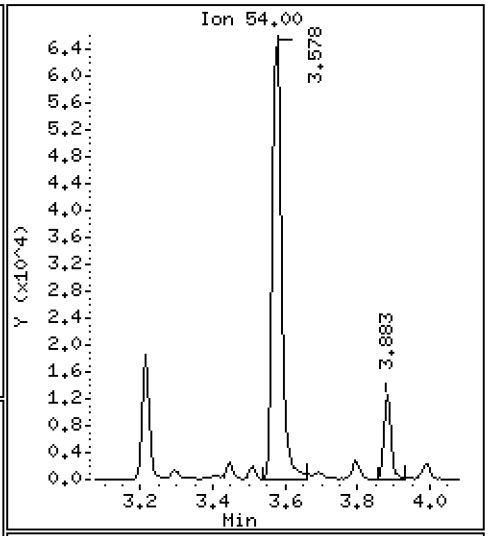
48 Propionitrile Concentration: 99.8274 ug/L

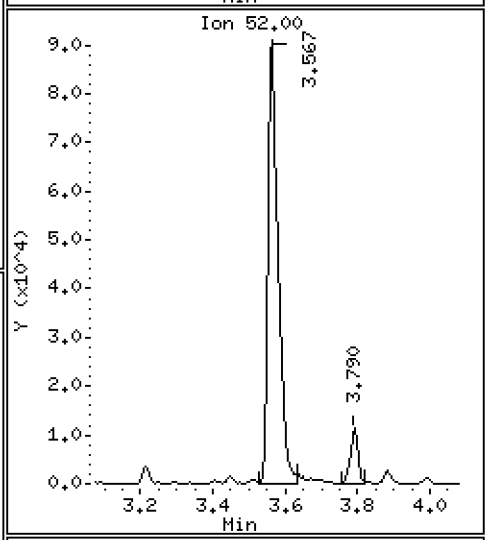


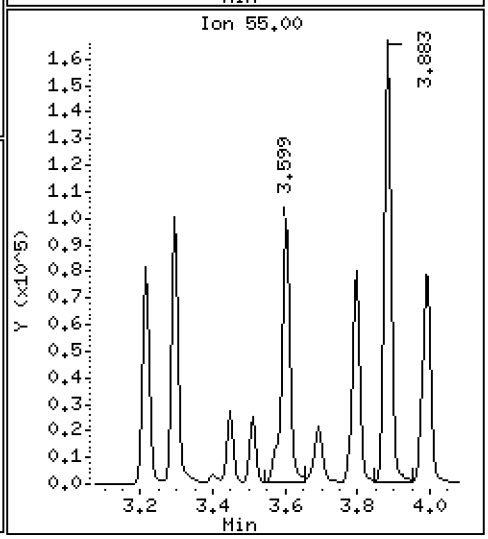












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 56

Date : 25-OCT-2016 00:30

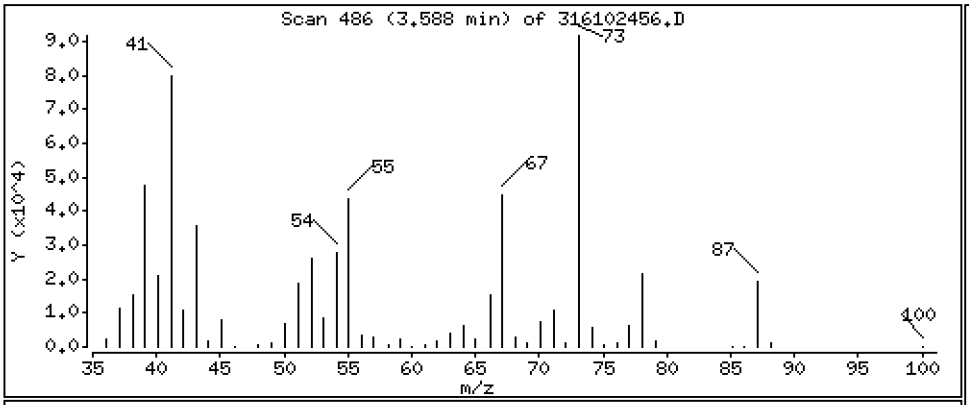
Client ID: Instrument: ms03.i

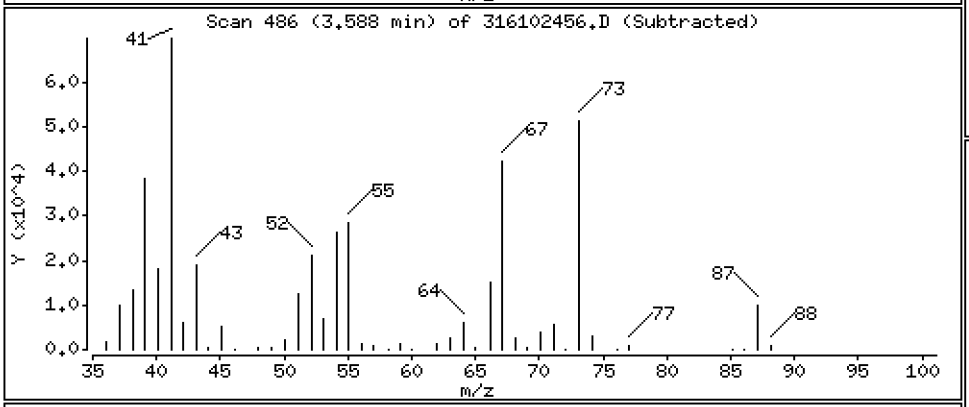
Sample Info: 1236;;1;1;3;;;

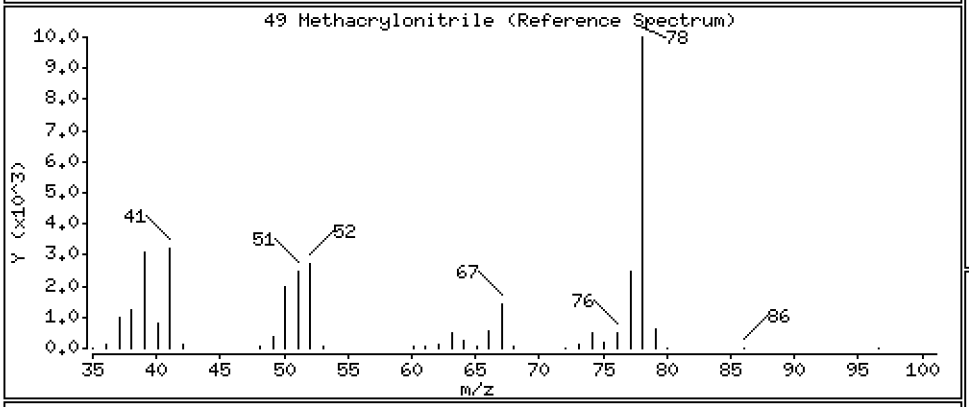
Purge Volume: 5.0 Operator: CJG

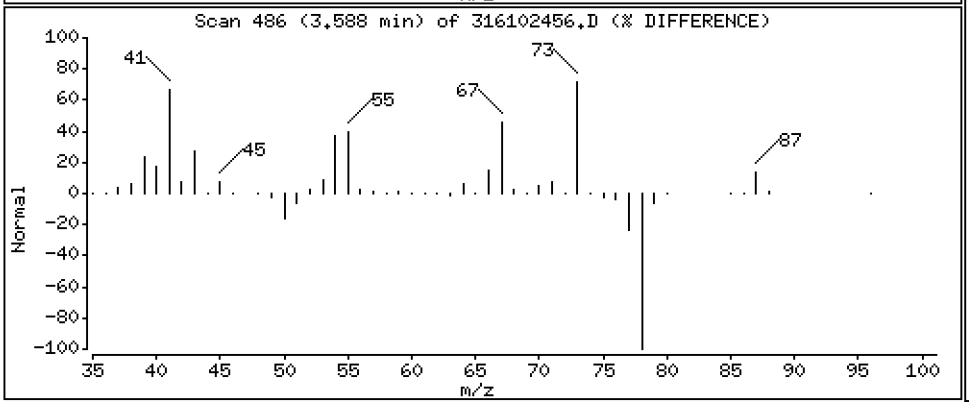
Column phase: DB-VRX Column diameter: 0.25

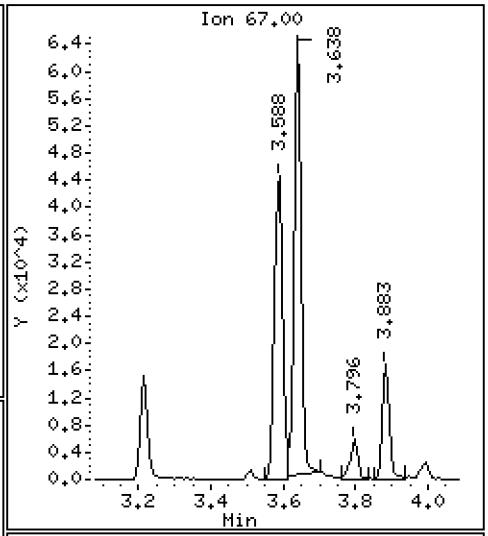
49 Methacrylonitrile Concentration: 20.2305 ug/L

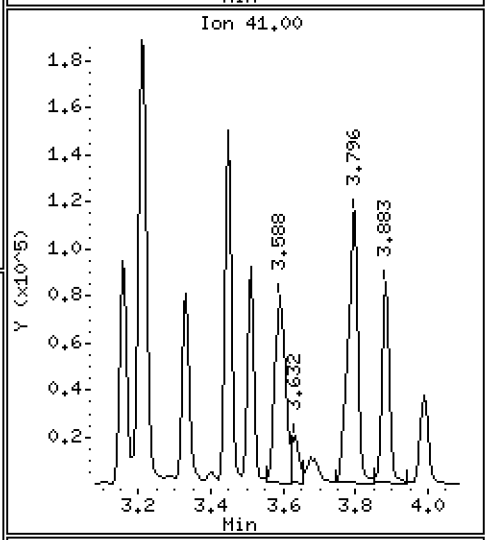


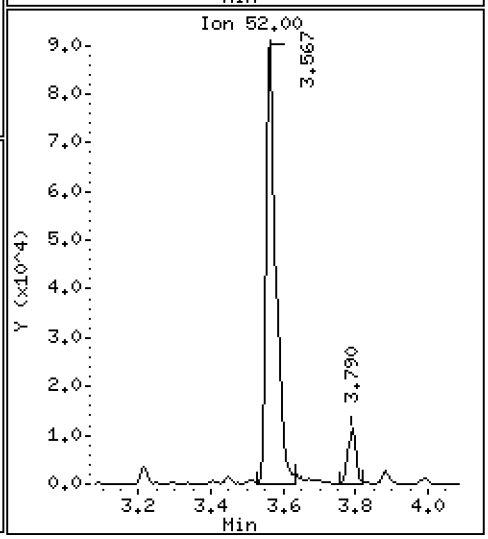












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 57

Date : 25-OCT-2016 00:30

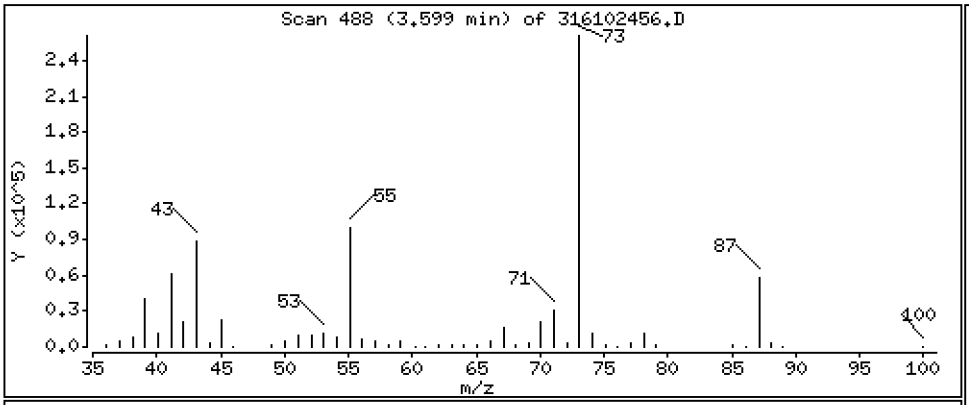
Client ID: Instrument: ms03.i

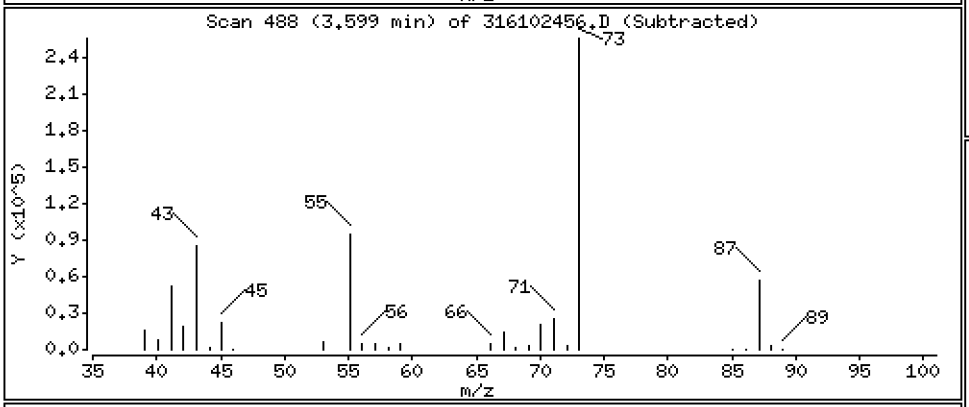
Sample Info: 1236;;1;1;3;;;

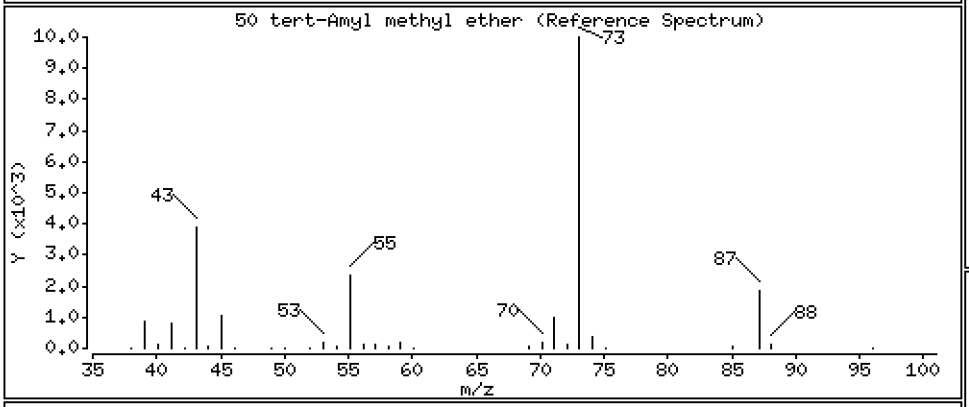
Purge Volume: 5.0 Operator: CJG

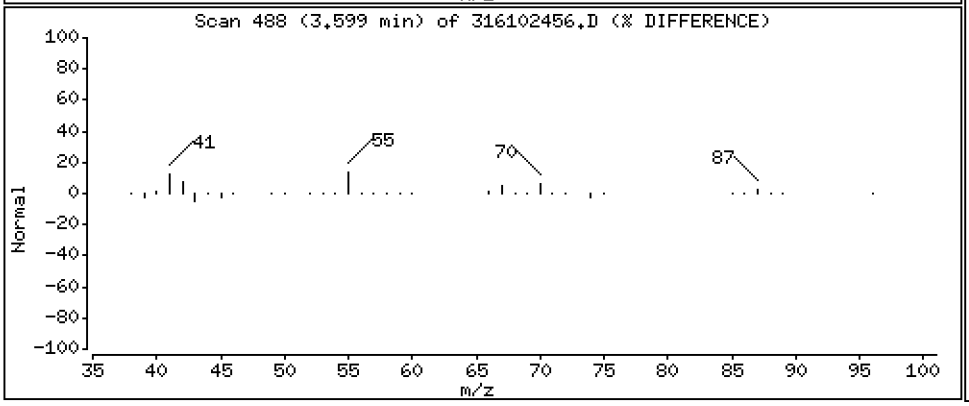
Column phase: DB-VRX Column diameter: 0.25

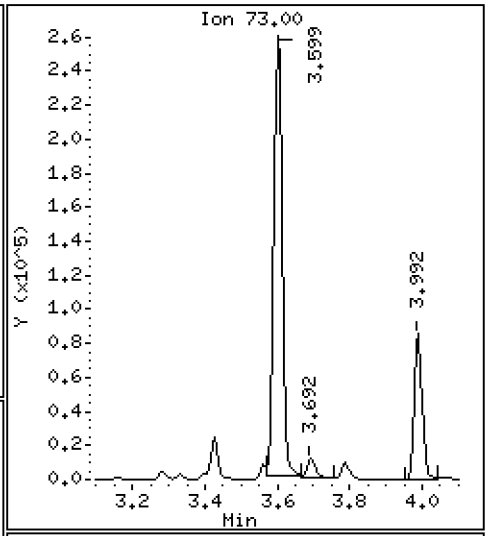
50 tert-Amyl methyl ether Concentration: 19.2216 ug/L

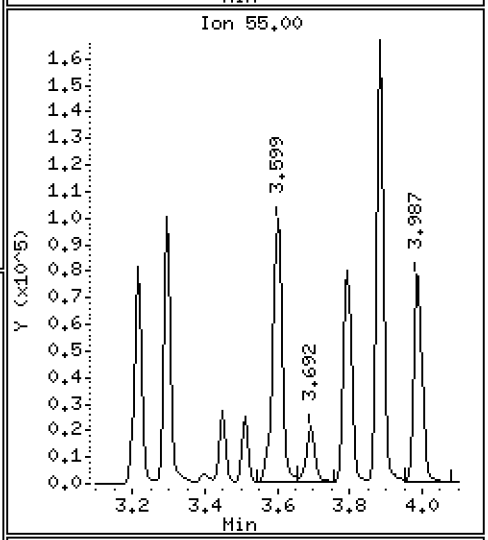


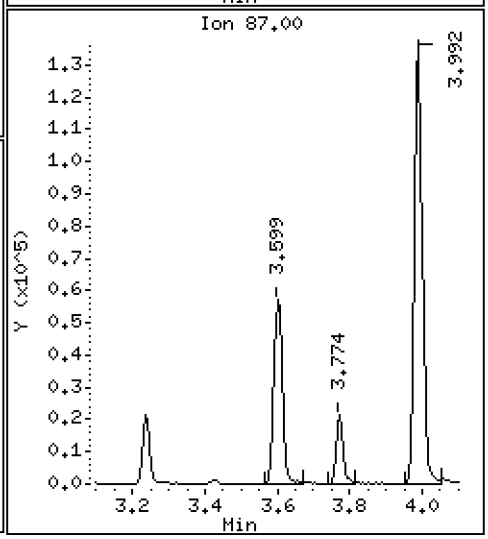












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 58

Date : 25-OCT-2016 00:30

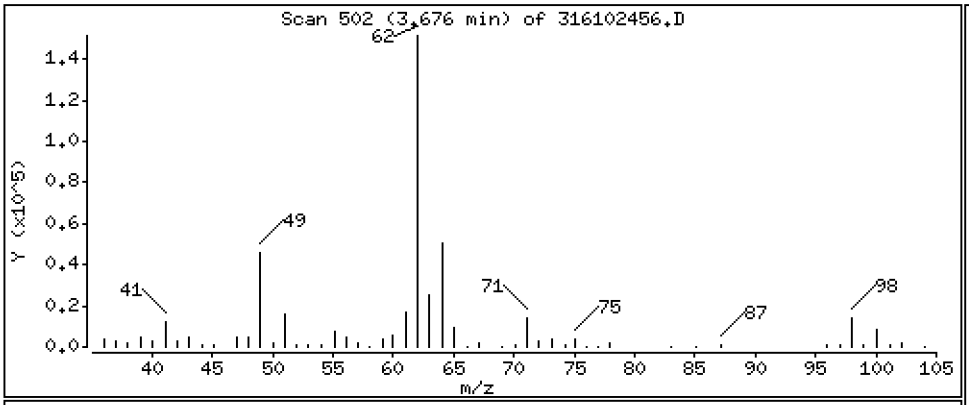
Client ID: Instrument: ms03.i

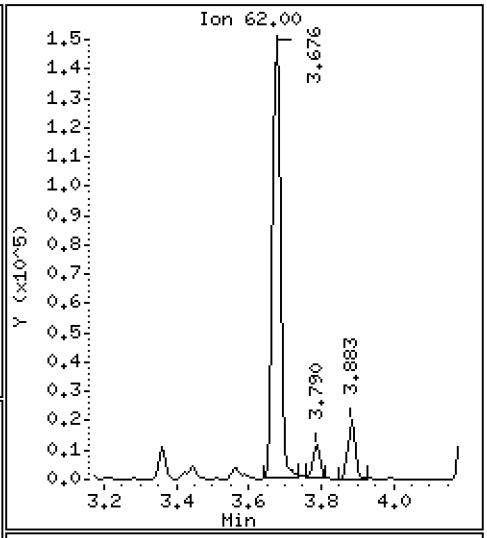
Sample Info: 1236;;1;1;3;;;

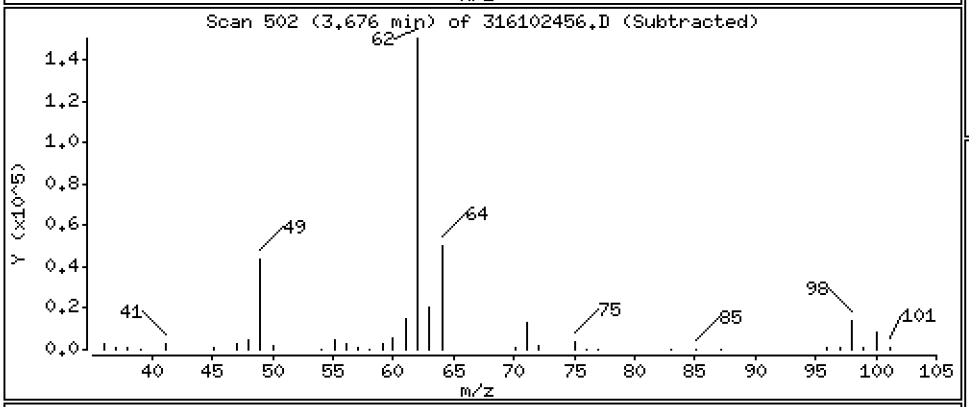
Purge Volume: 5.0 Operator: CJG

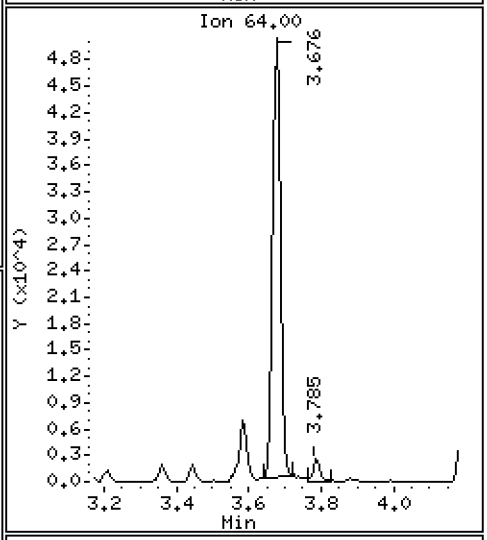
Column phase: DB-VRX Column diameter: 0.25

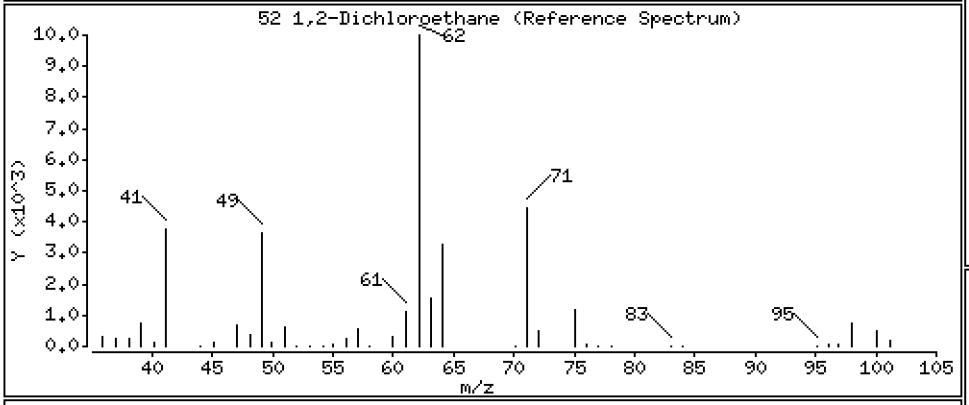
52 1,2-Dichloroethane Concentration: 19.9189 ug/L

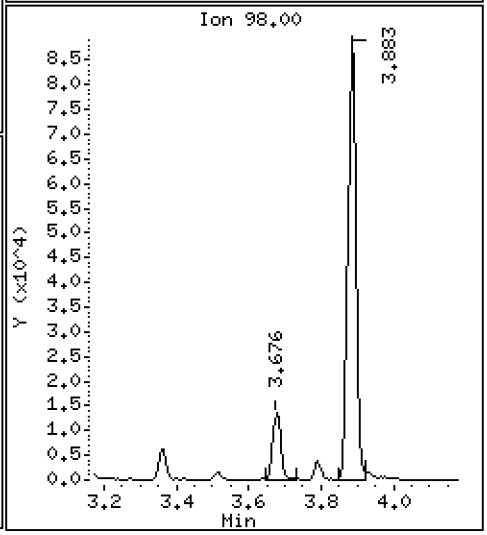


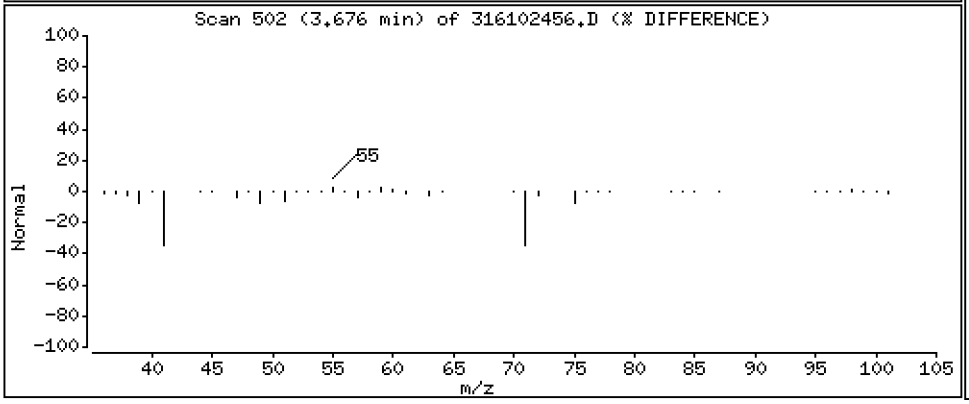












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 59

Date : 25-OCT-2016 00:30

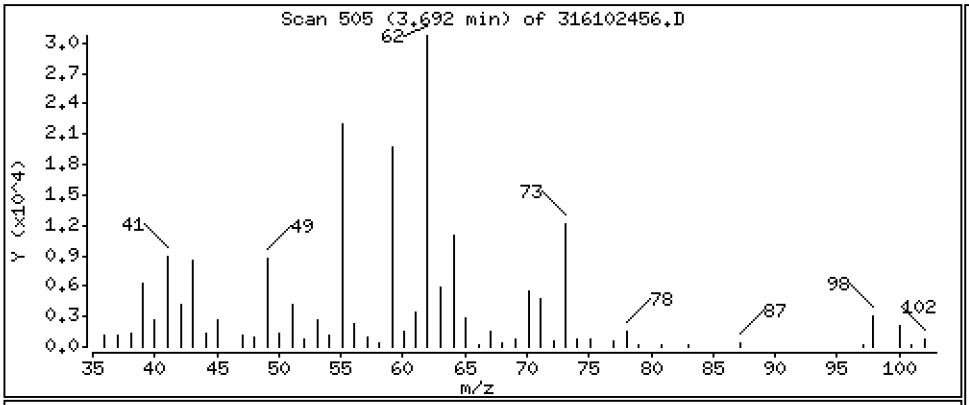
Client ID: Instrument: ms03.i

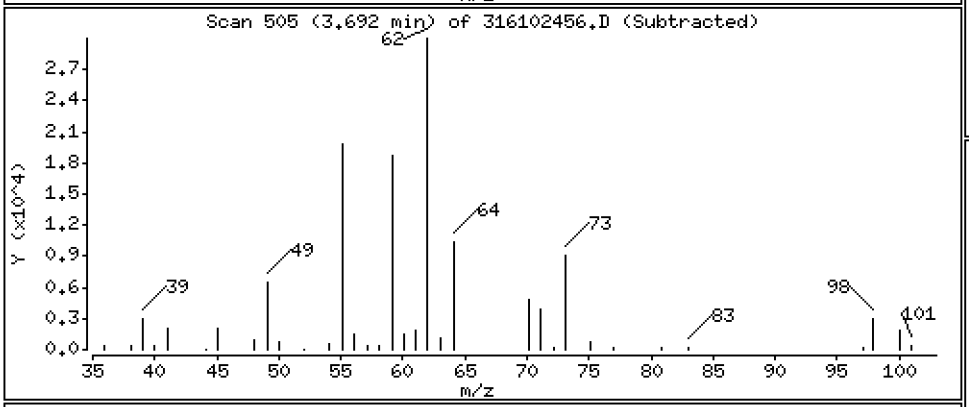
Sample Info: 1236;;1;1;3;;;

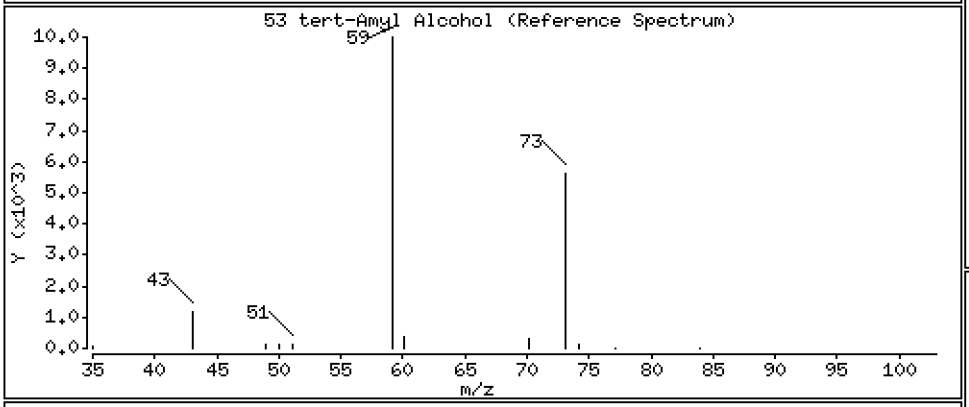
Purge Volume: 5.0 Operator: CJG

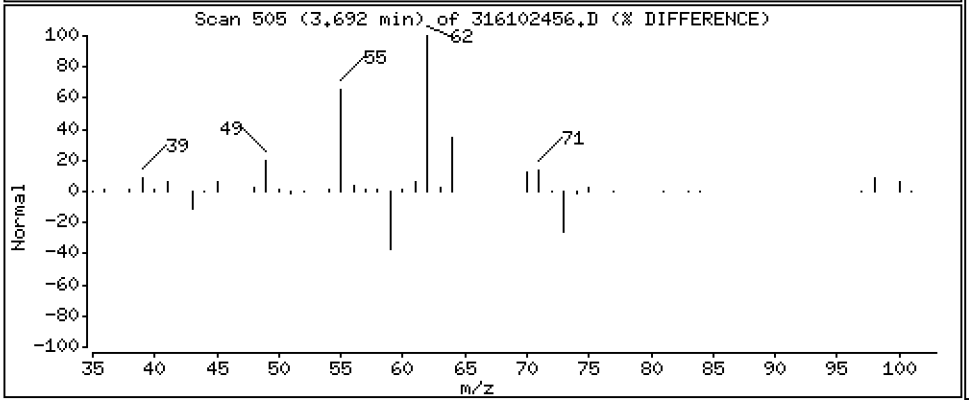
Column phase: DB-VRX Column diameter: 0.25

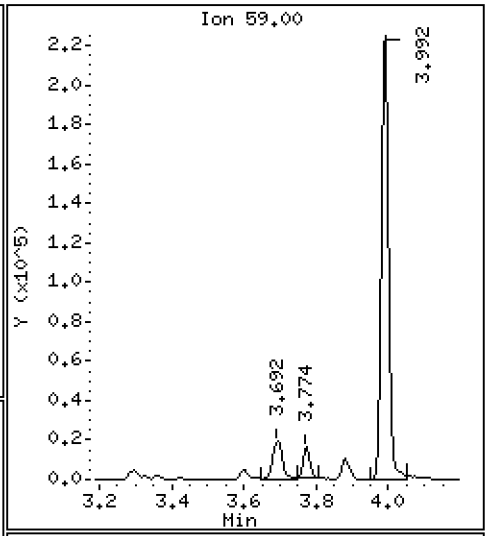
53 tert-Amyl Alcohol Concentration: 90.6931 ug/L

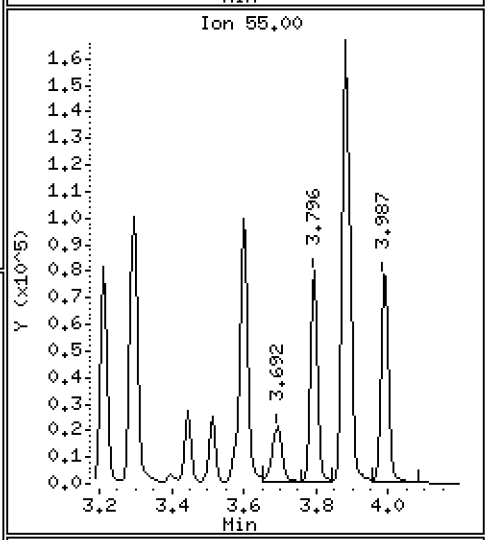


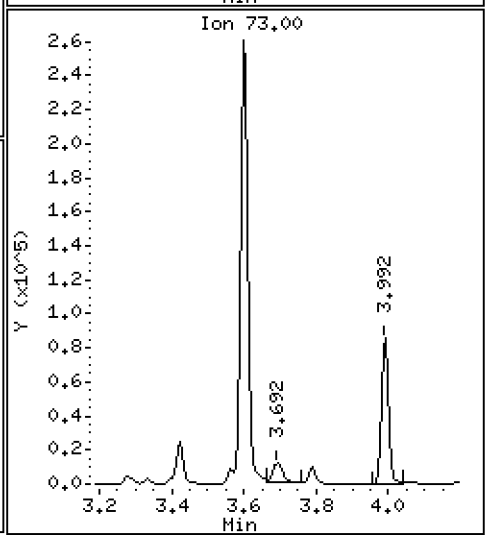












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 60

Date : 25-OCT-2016 00:30

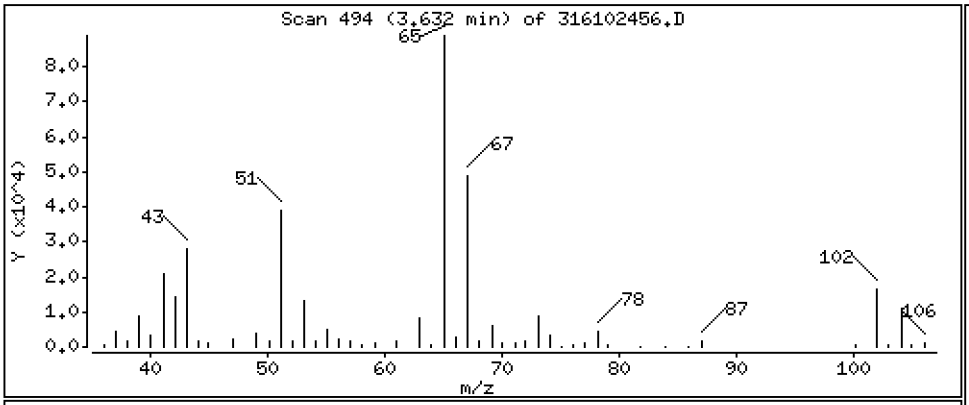
Client ID: Instrument: ms03.i

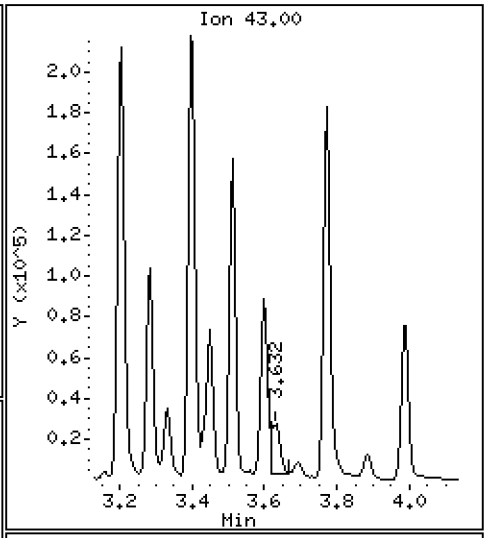
Sample Info: 1236;;1;1;3;;;

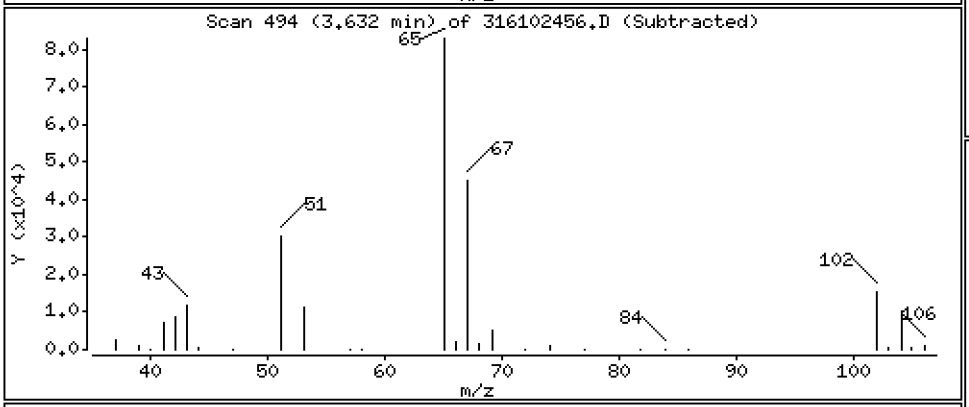
Purge Volume: 5.0 Operator: CJG

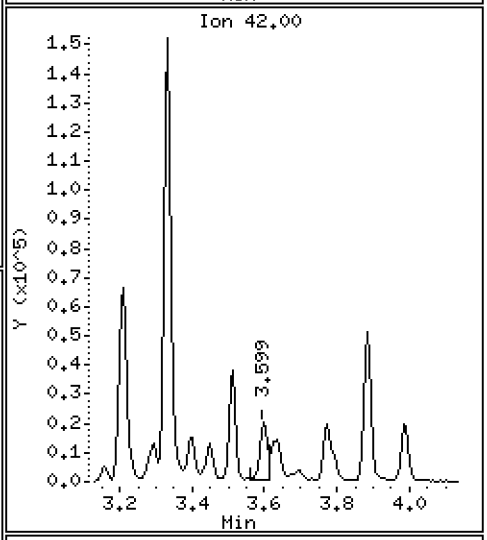
Column phase: DB-VRX Column diameter: 0.25

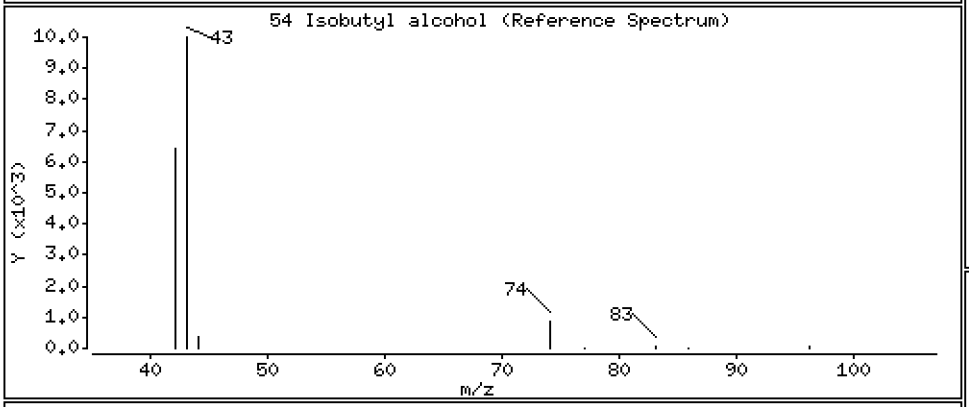
54 Isobutyl alcohol Concentration: 218.271 ug/L

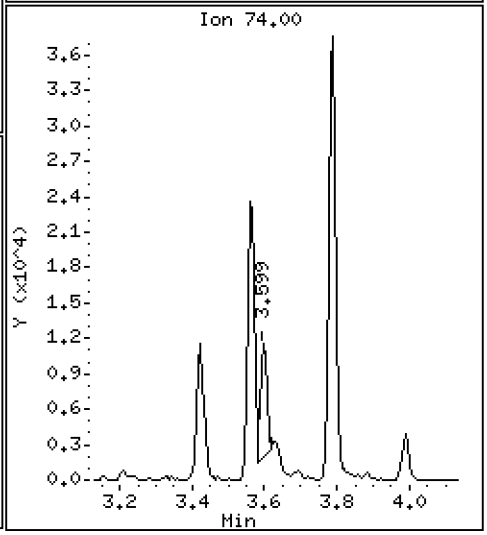


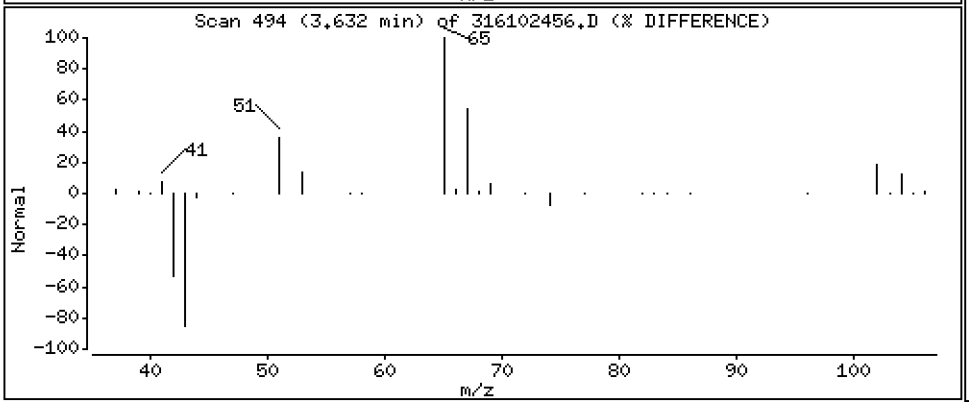












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 61

Date : 25-OCT-2016 00:30

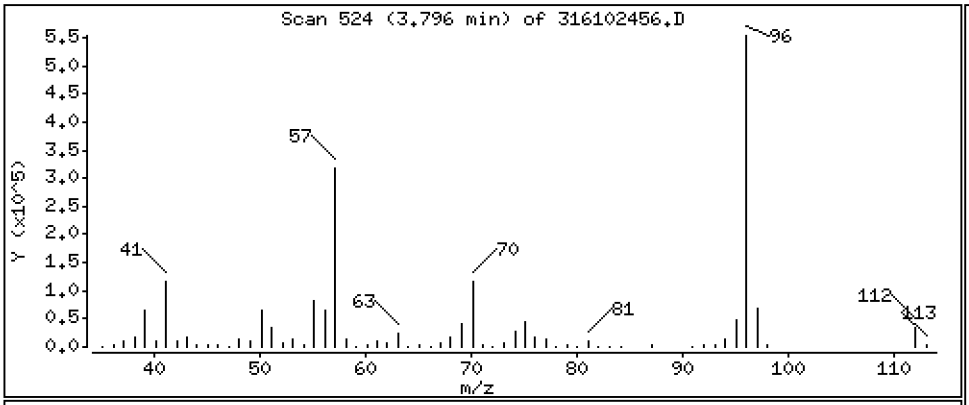
Client ID: Instrument: ms03.i

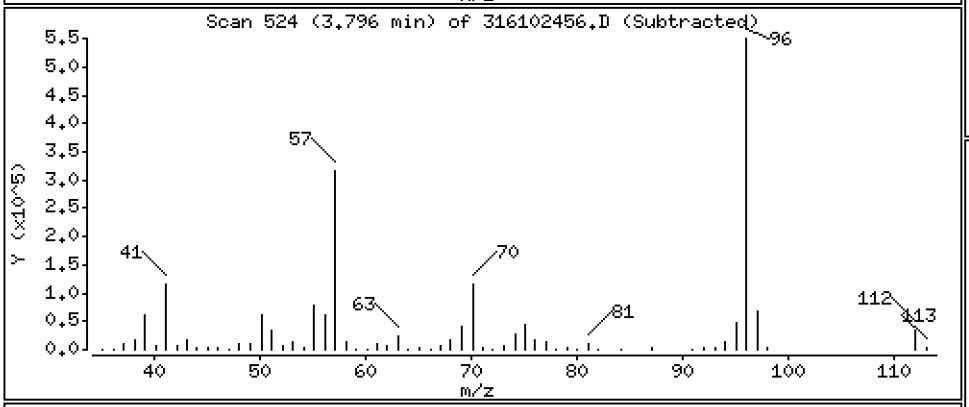
Sample Info: 1236;;1;1;3;;;

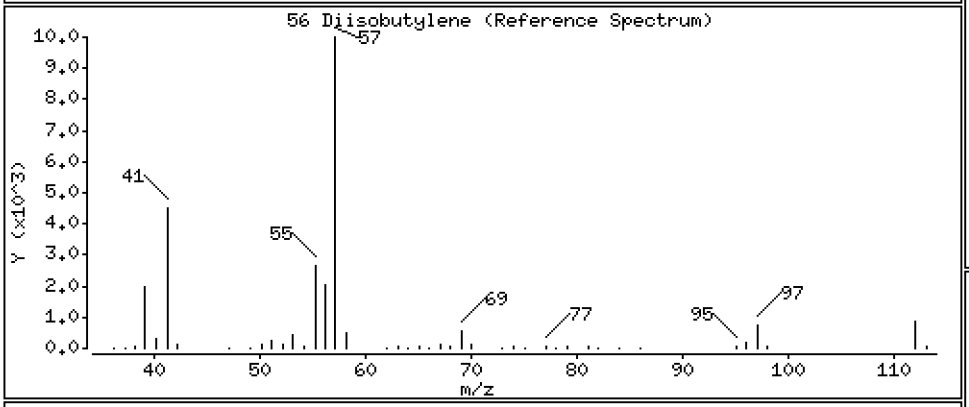
Purge Volume: 5.0 Operator: CJG

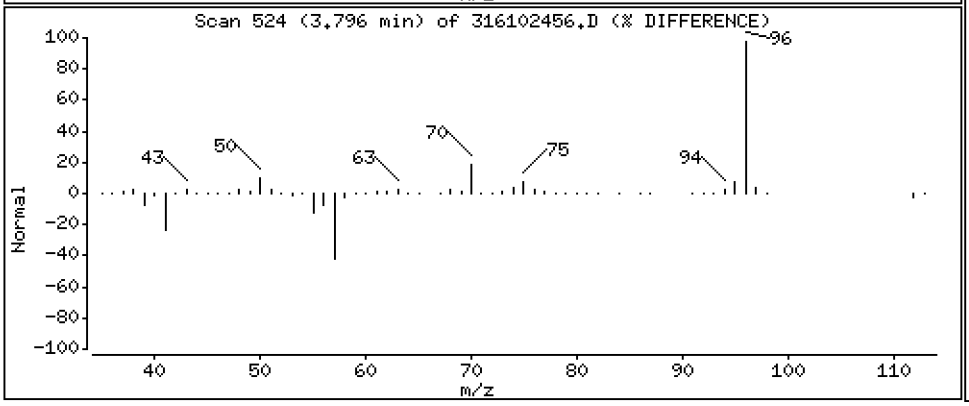
Column phase: DB-VRX Column diameter: 0.25

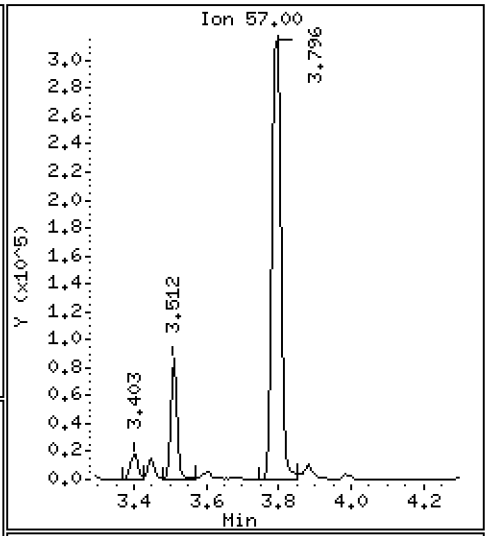
56 Diisobutylene Concentration: 23.2009 ug/L

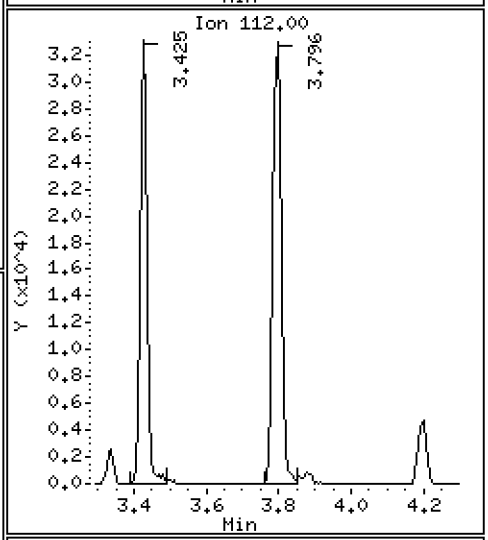


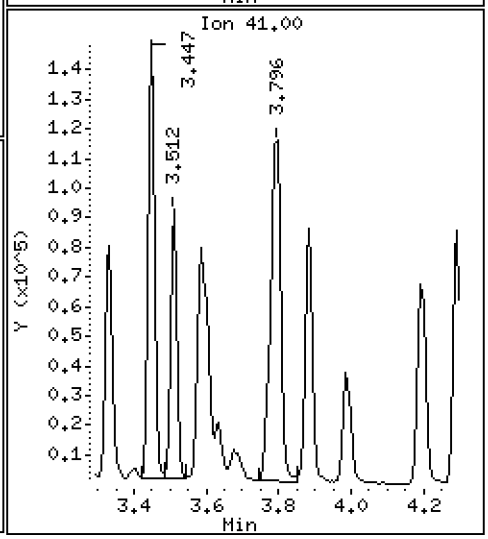












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 62

Date : 25-OCT-2016 00:30

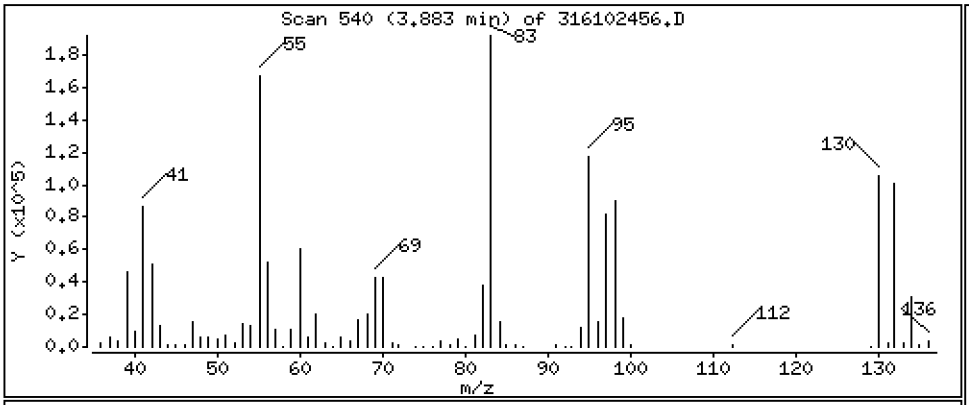
Client ID: Instrument: ms03.i

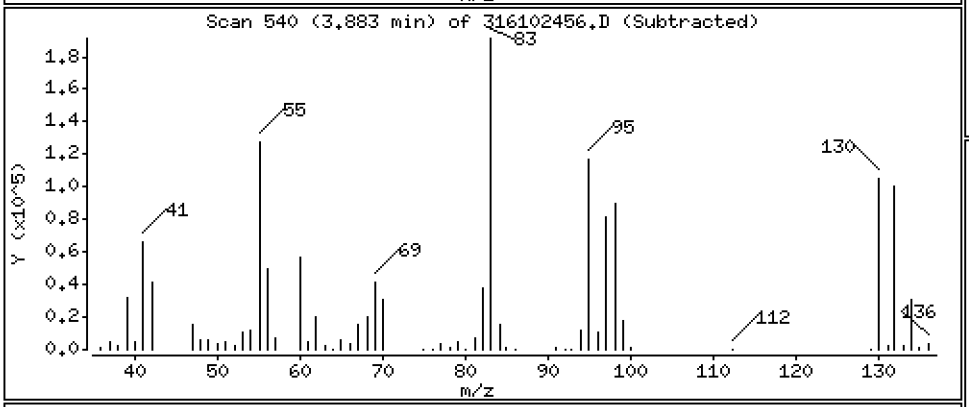
Sample Info: 1236;;1;1;3;;;

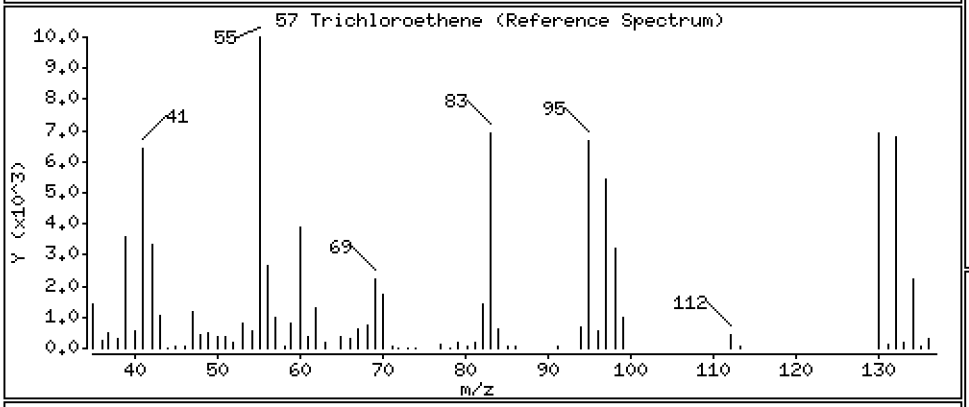
Purge Volume: 5.0 Operator: CJG

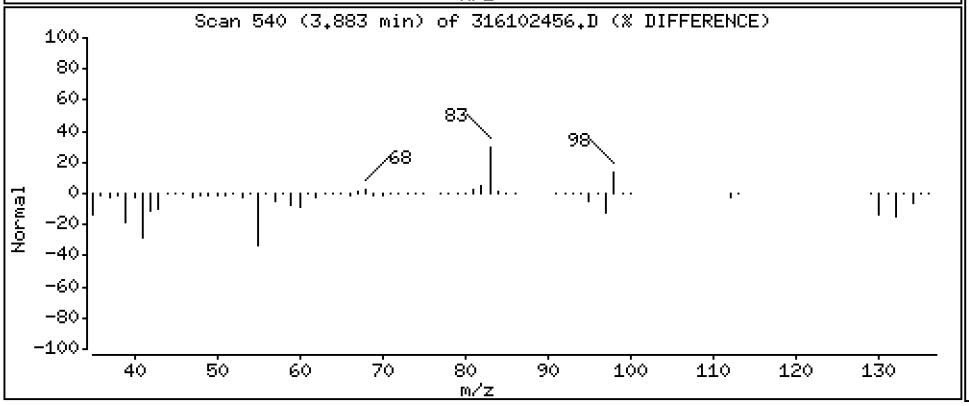
Column phase: DB-VRX Column diameter: 0.25

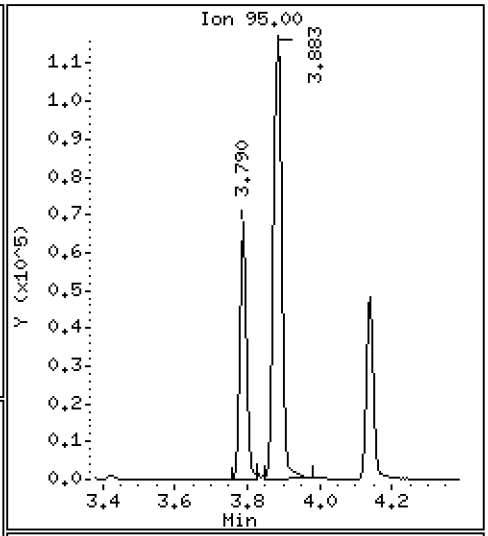
57 Trichloroethene Concentration: 21.4701 ug/L

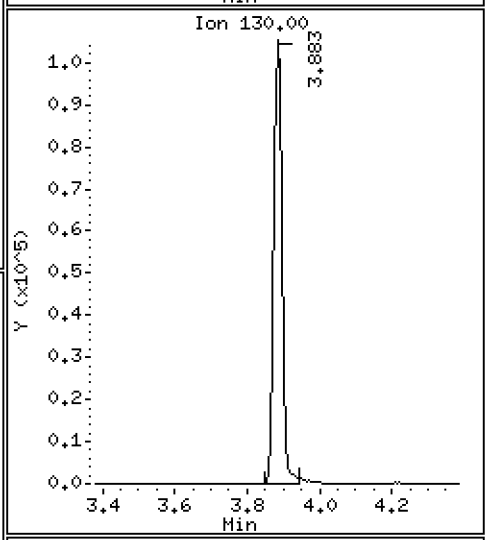


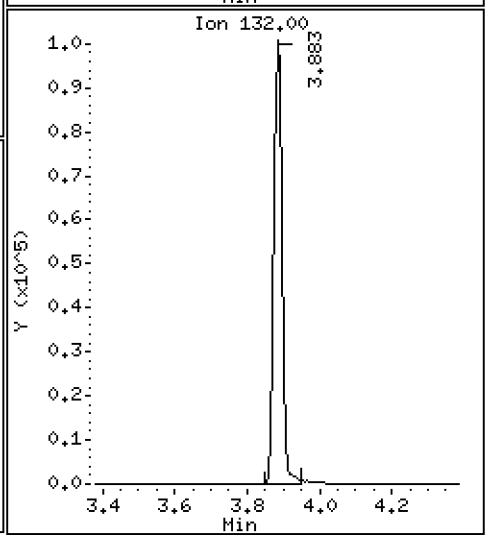












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 63

Date : 25-OCT-2016 00:30

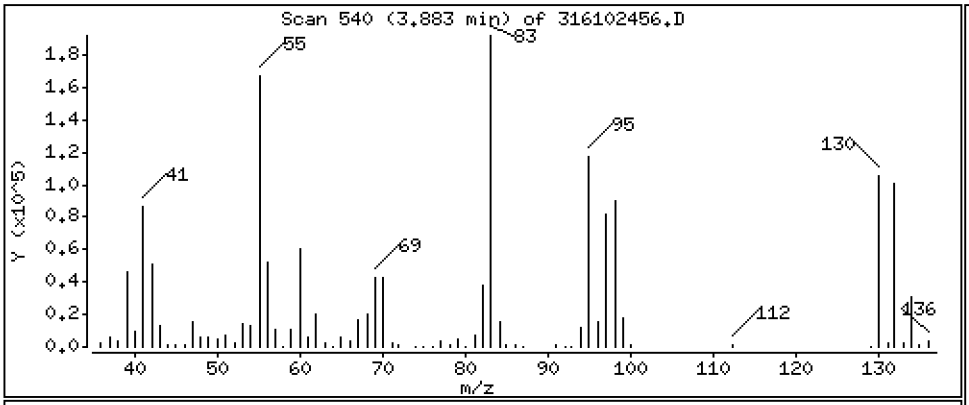
Client ID: Instrument: ms03.i

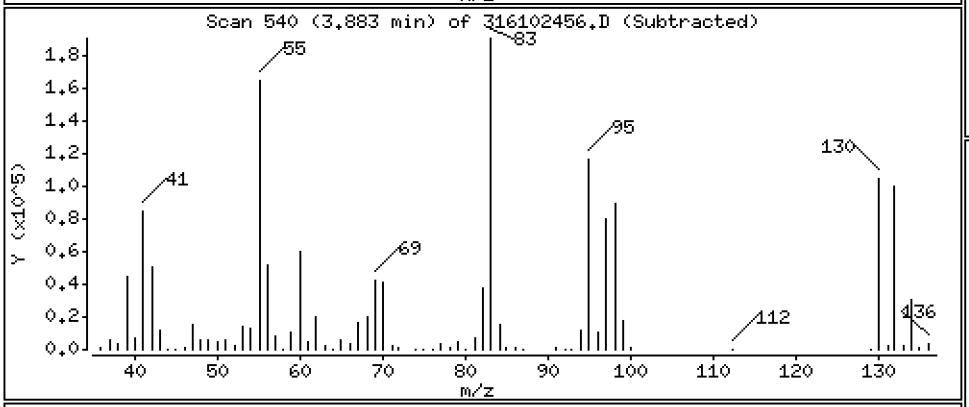
Sample Info: 1236;;1;1;3;;;

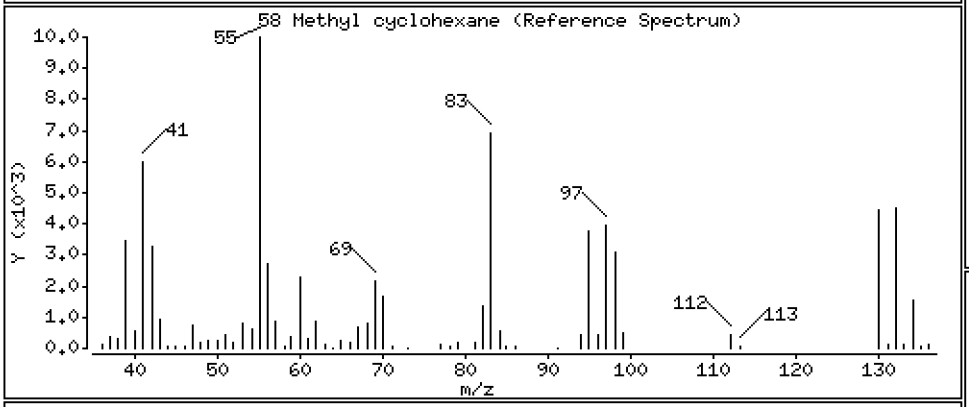
Purge Volume: 5.0 Operator: CJG

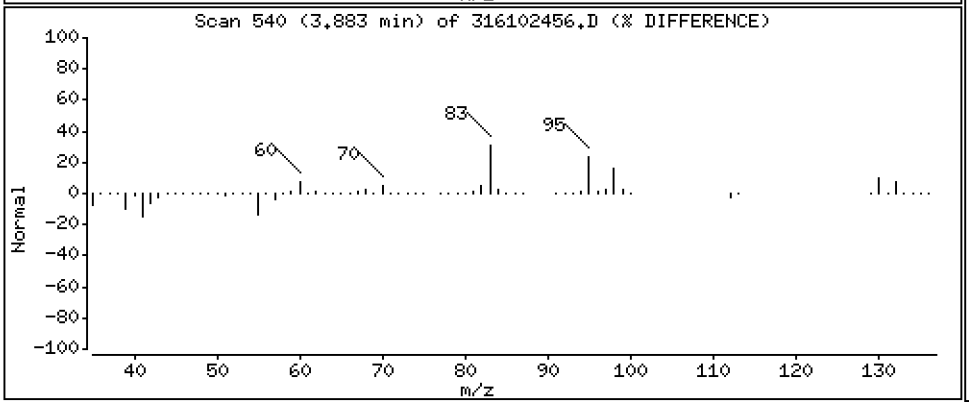
Column phase: DB-VRX Column diameter: 0.25

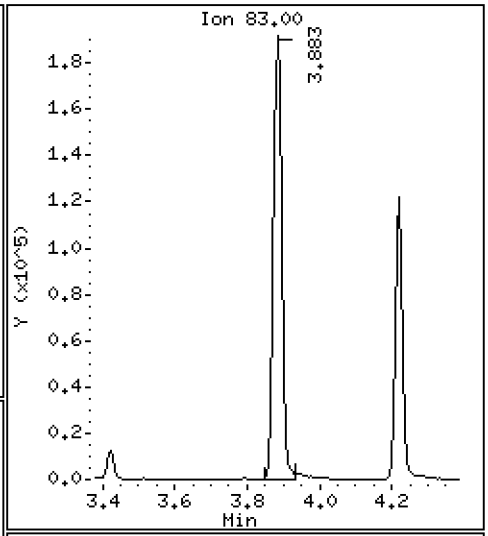
58 Methyl cyclohexane Concentration: 23.2785 ug/L

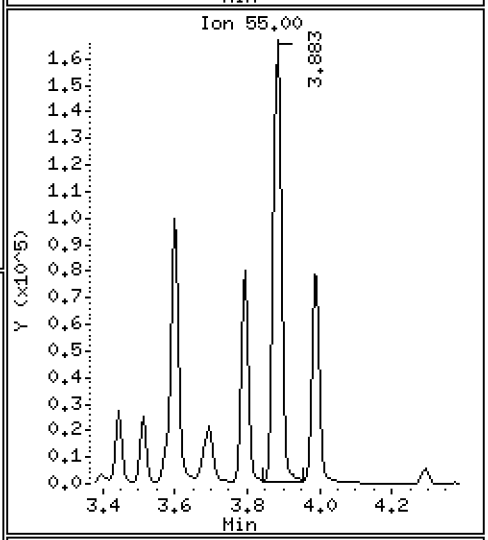


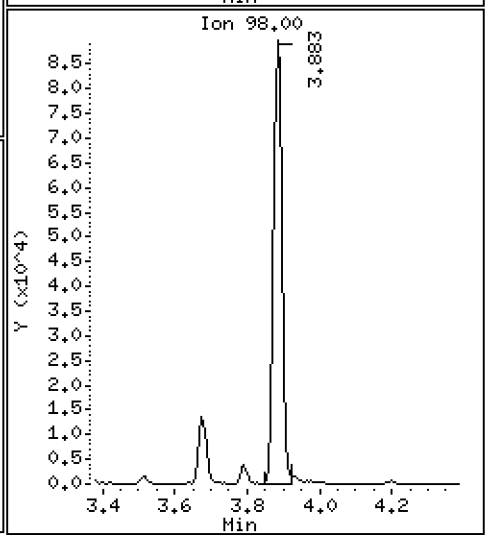












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 64

Date : 25-OCT-2016 00:30

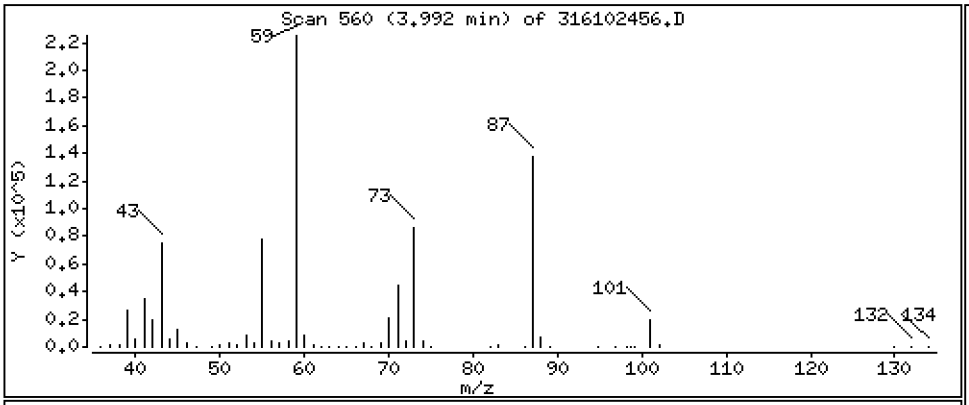
Client ID: Instrument: ms03.i

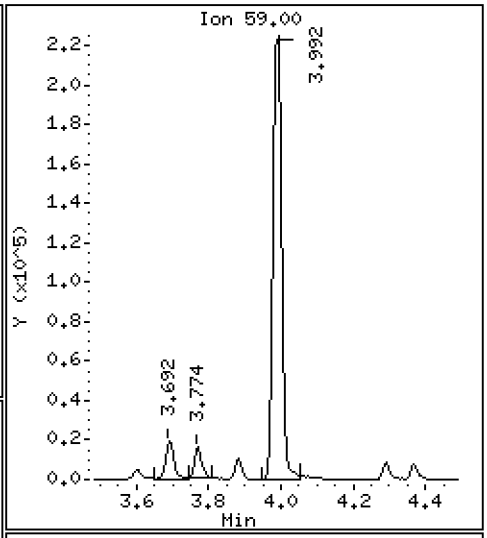
Sample Info: 1236;;1;1;3;;;

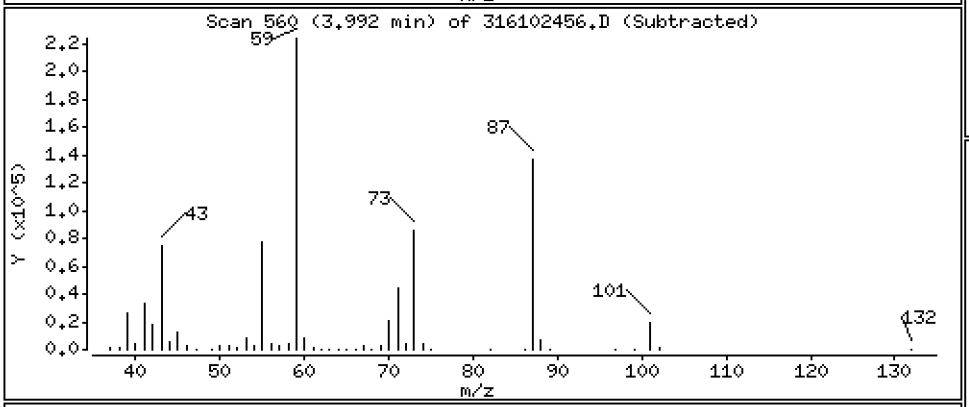
Purge Volume: 5.0 Operator: CJG

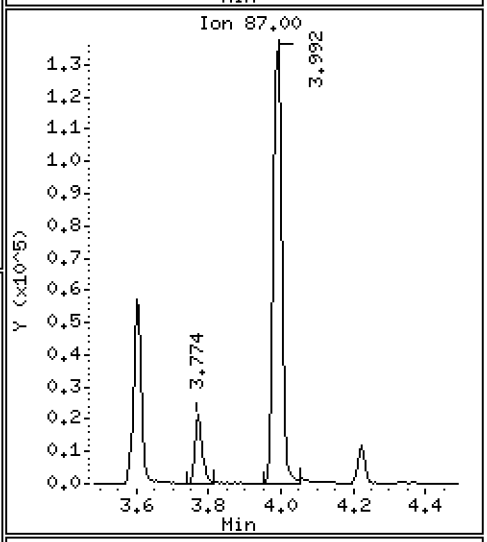
Column phase: DB-VRX Column diameter: 0.25

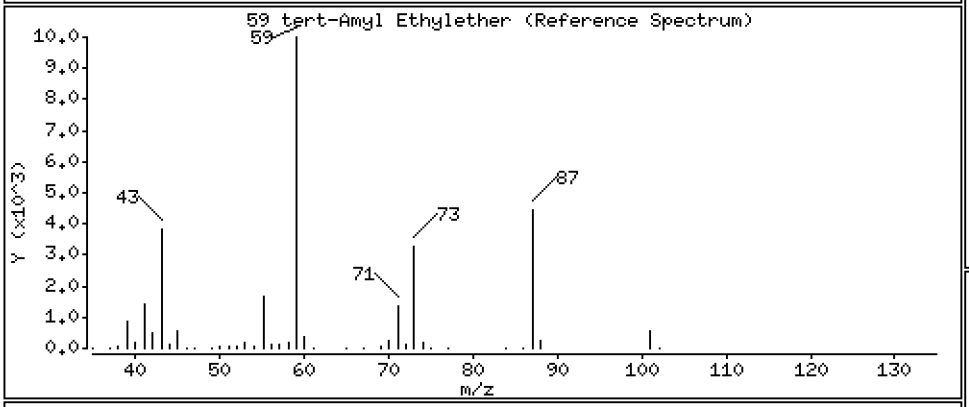
59 tert-Amyl Ethylether Concentration: 18.5741 ug/L

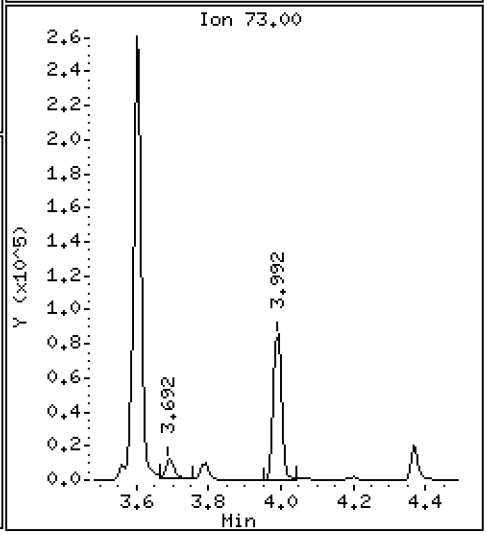


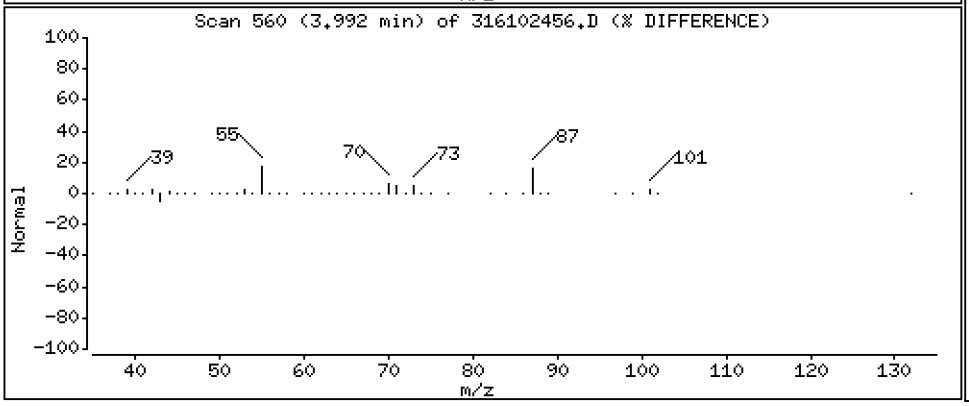












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 65

Date : 25-OCT-2016 00:30

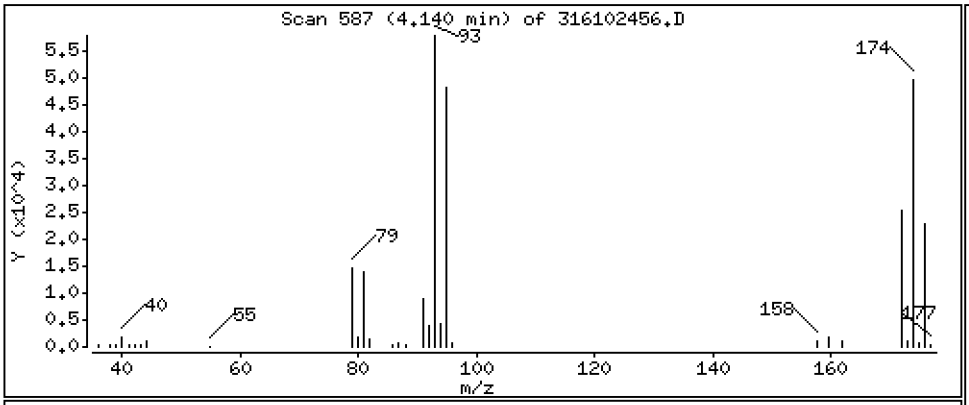
Client ID: Instrument: ms03.i

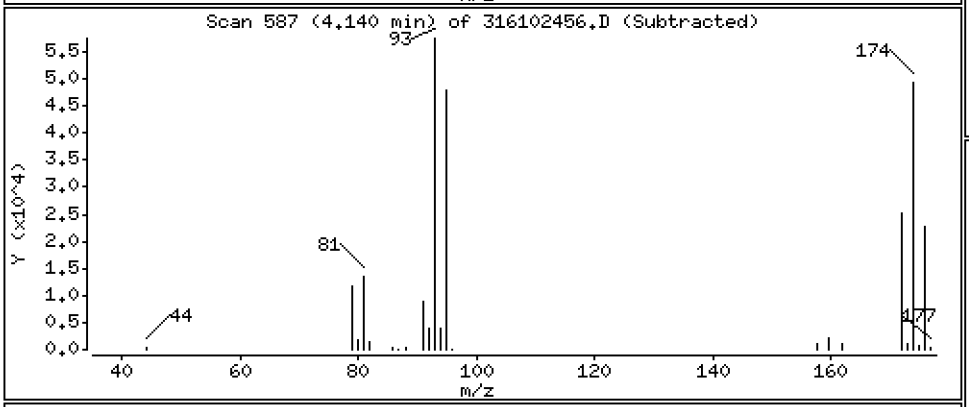
Sample Info: 1236;;1;1;3;;;

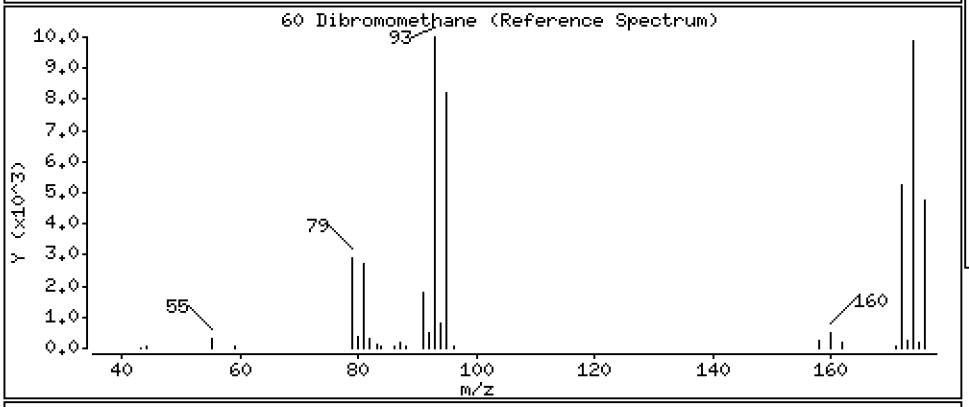
Purge Volume: 5.0 Operator: CJG

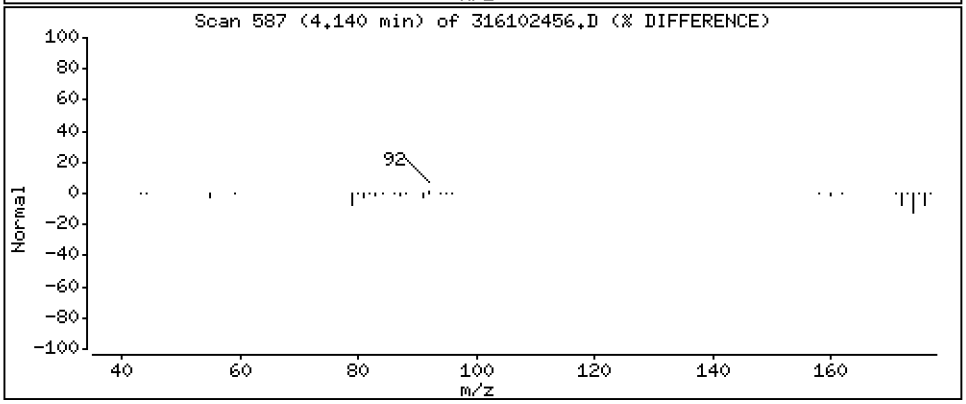
Column phase: DB-VRX Column diameter: 0.25

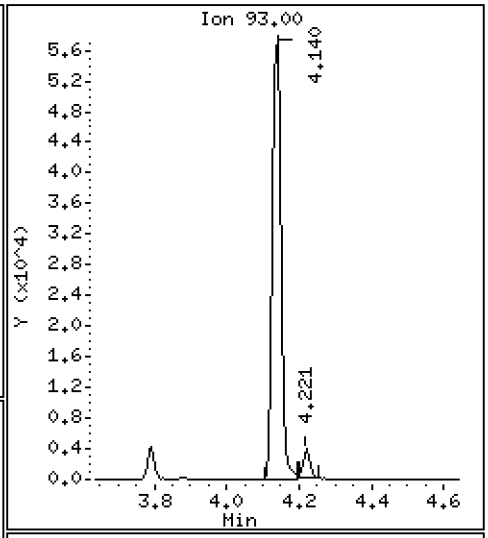
60 Dibromomethane Concentration: 19.4582 ug/L

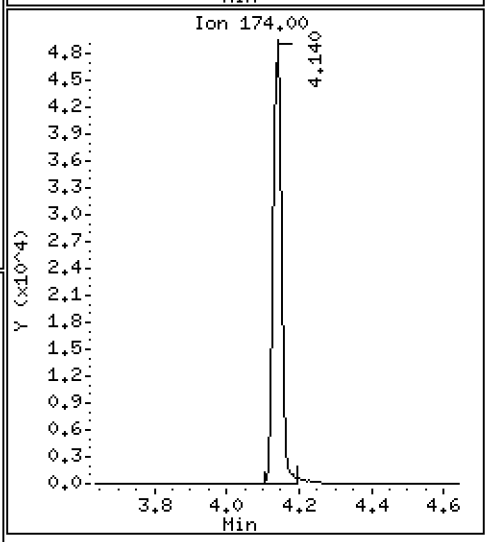












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 66

Date : 25-OCT-2016 00:30

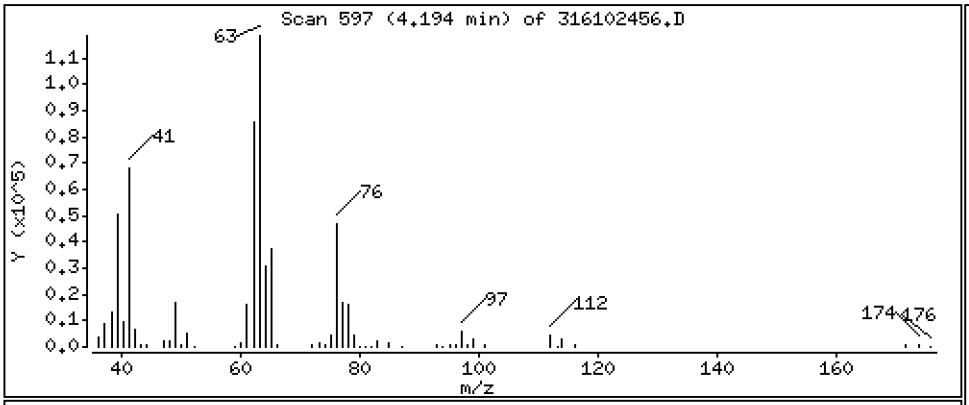
Client ID: Instrument: ms03.i

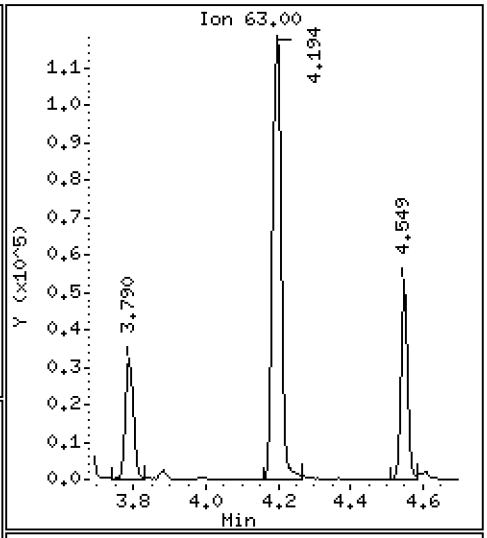
Sample Info: 1236;;1;1;3;;;

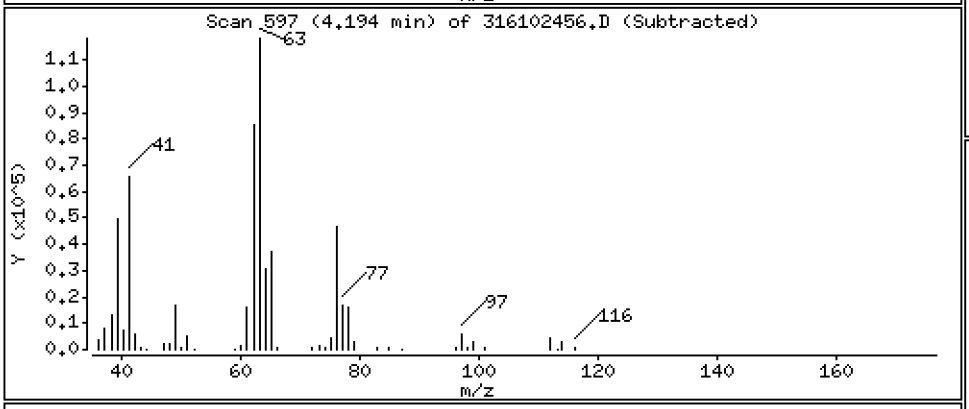
Purge Volume: 5.0 Operator: CJG

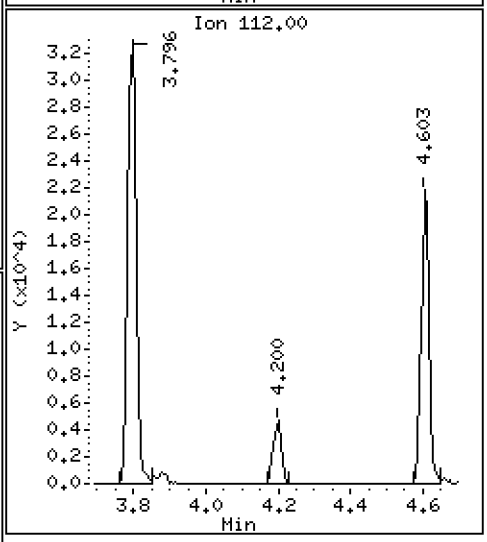
Column phase: DB-VRX Column diameter: 0.25

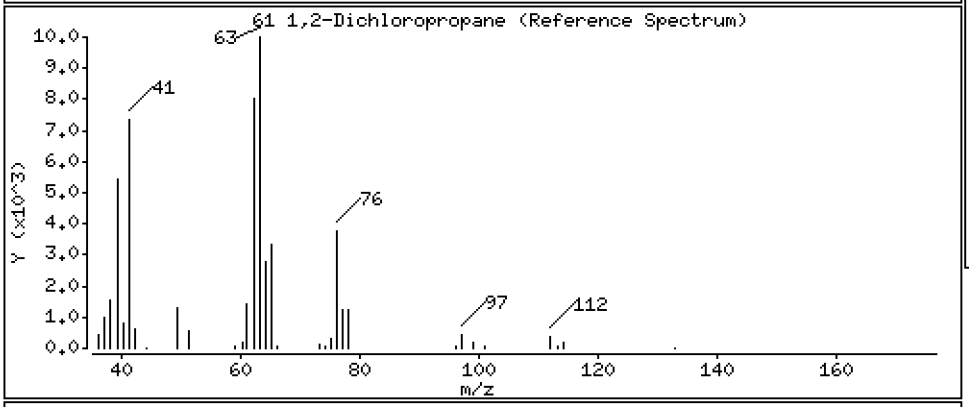
61 1,2-Dichloropropane Concentration: 19.7243 ug/L

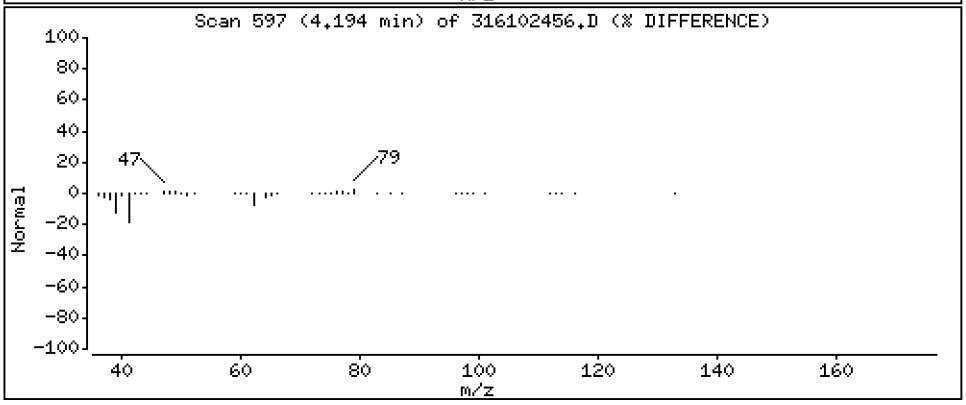












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 67

Date : 25-OCT-2016 00:30

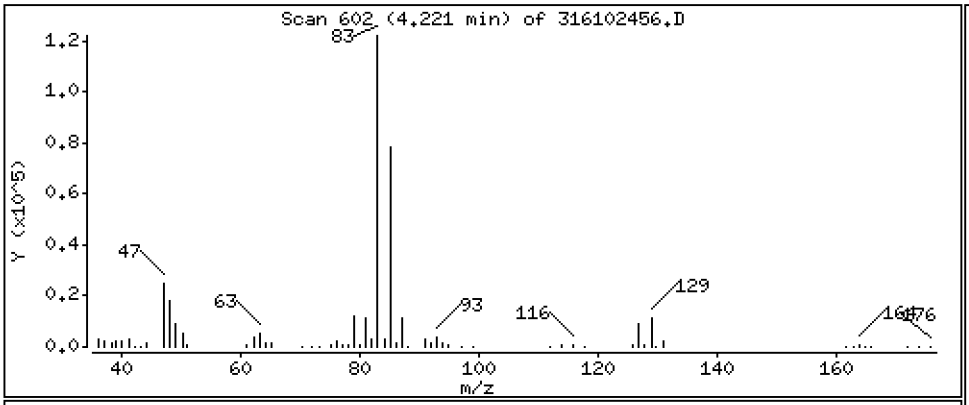
Client ID: Instrument: ms03.i

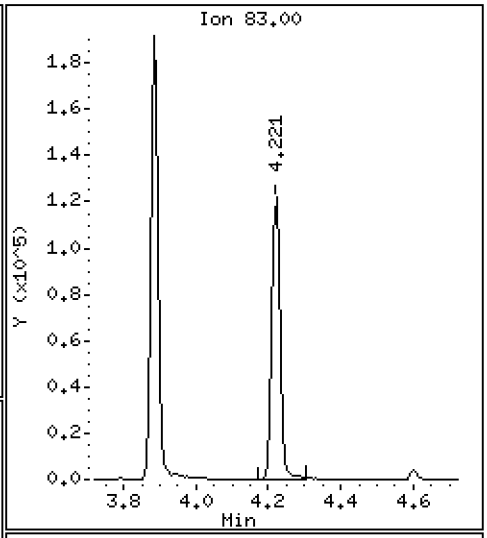
Sample Info: 1236;;1;1;3;;;

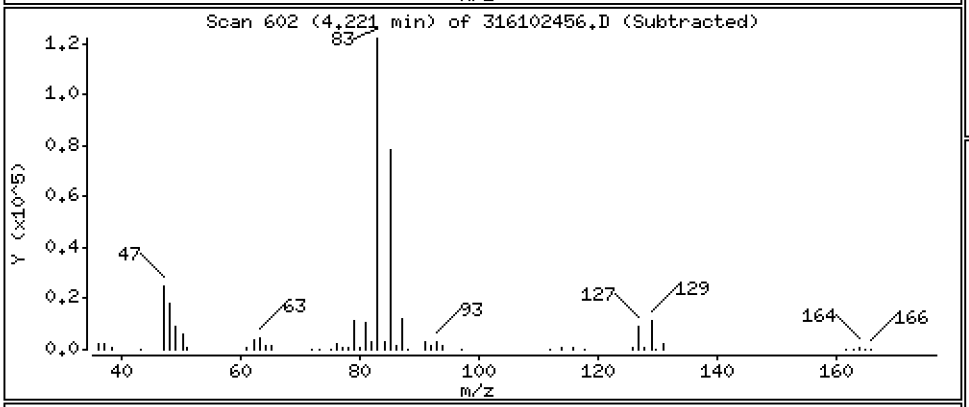
Purge Volume: 5.0 Operator: CJG

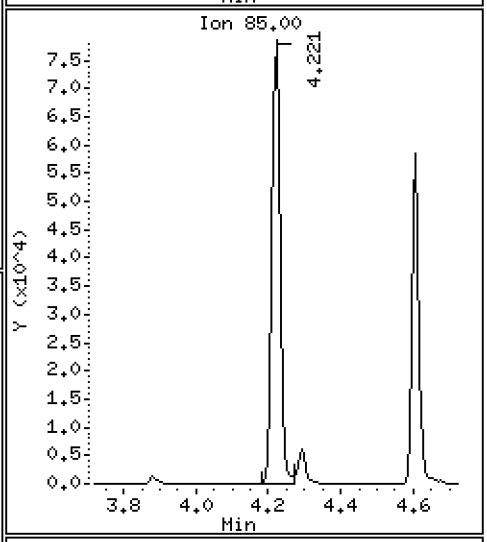
Column phase: DB-VRX Column diameter: 0.25

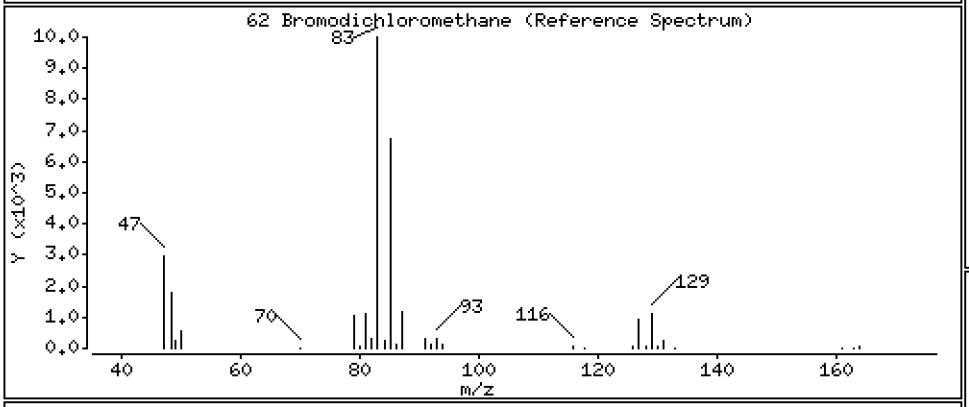
62 Bromodichloromethane Concentration: 18.7536 ug/L

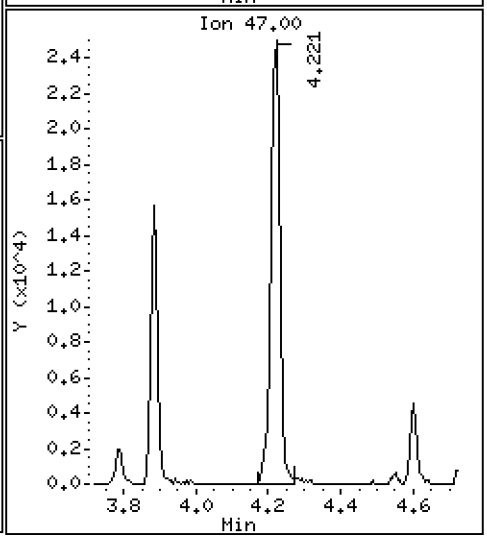


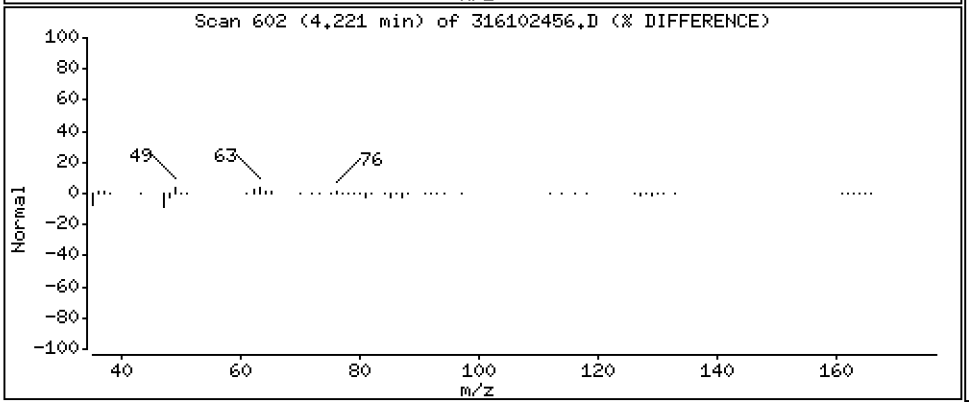












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 68

Date : 25-OCT-2016 00:30

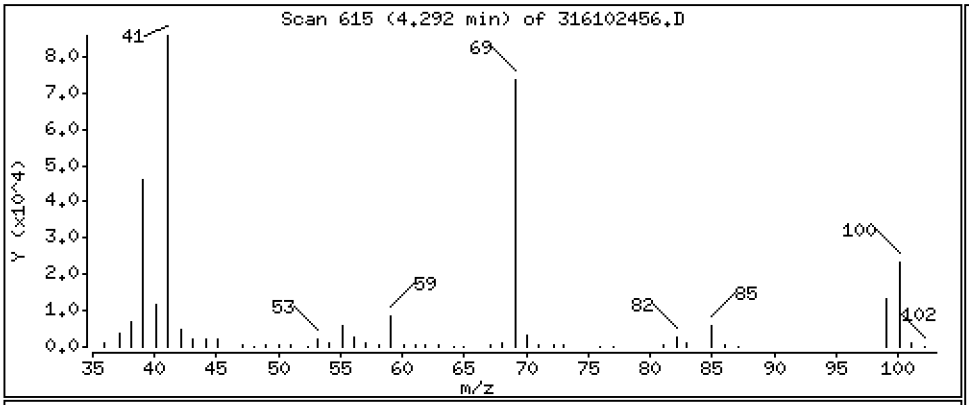
Client ID: Instrument: ms03.i

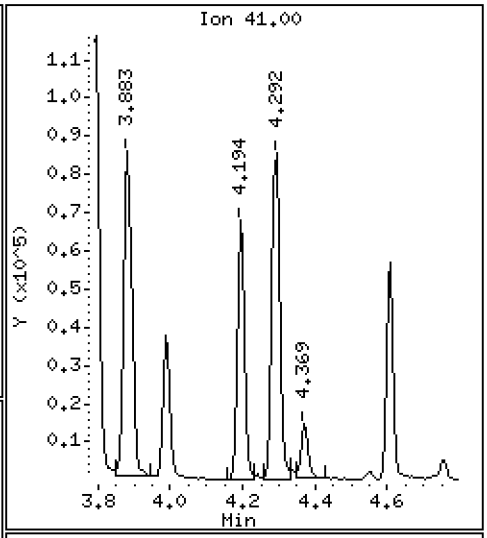
Sample Info: 1236;;1;1;3;;;

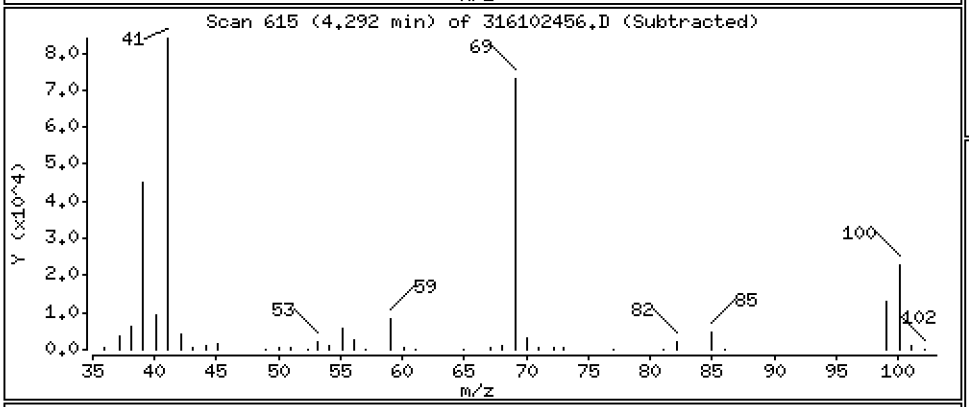
Purge Volume: 5.0 Operator: CJG

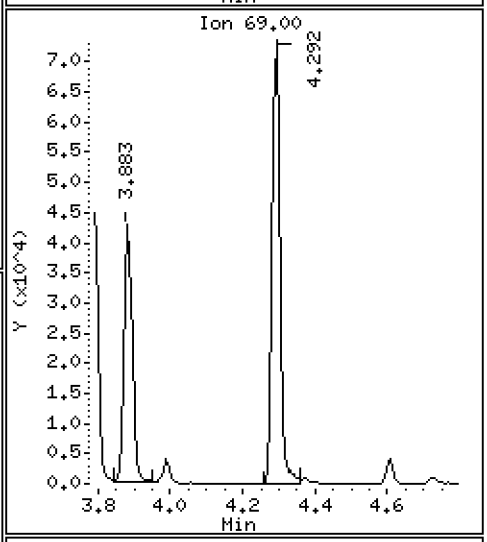
Column phase: DB-VRX Column diameter: 0.25

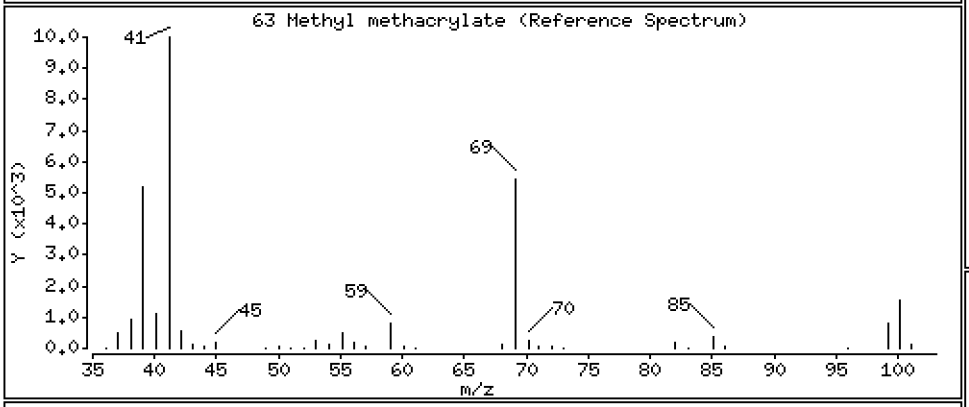
63 Methyl methacrylate Concentration: 17.4378 ug/L

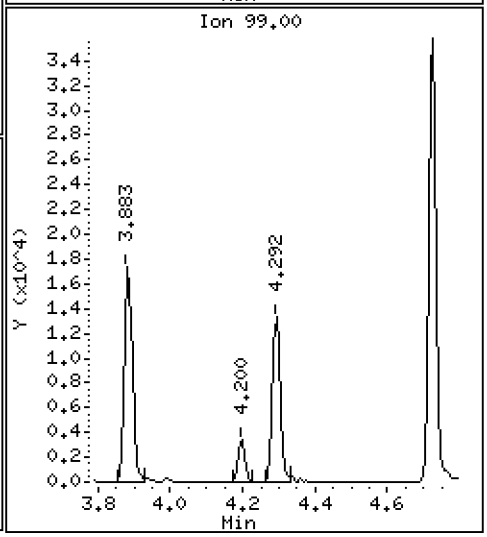


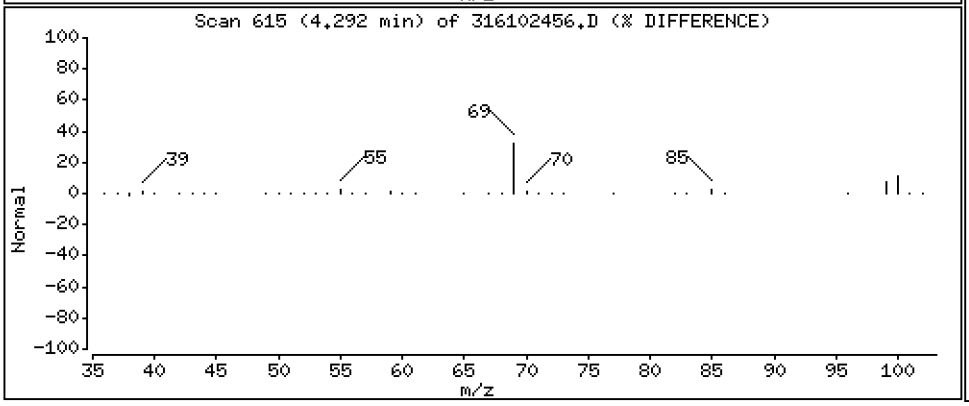












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 69

Date : 25-OCT-2016 00:30

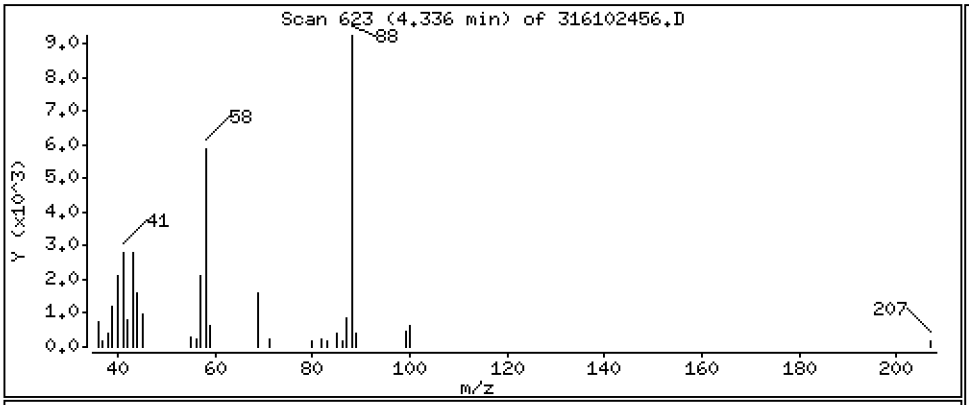
Client ID: Instrument: ms03.i

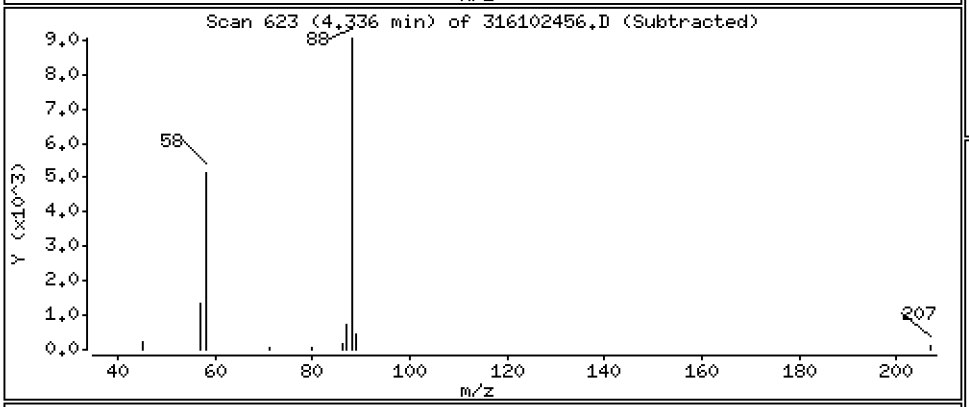
Sample Info: 1236;;1;1;3;;;

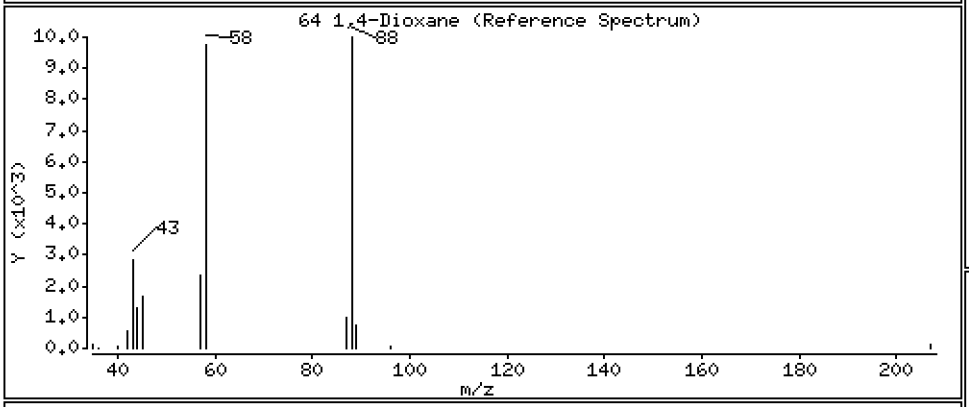
Purge Volume: 5.0 Operator: CJG

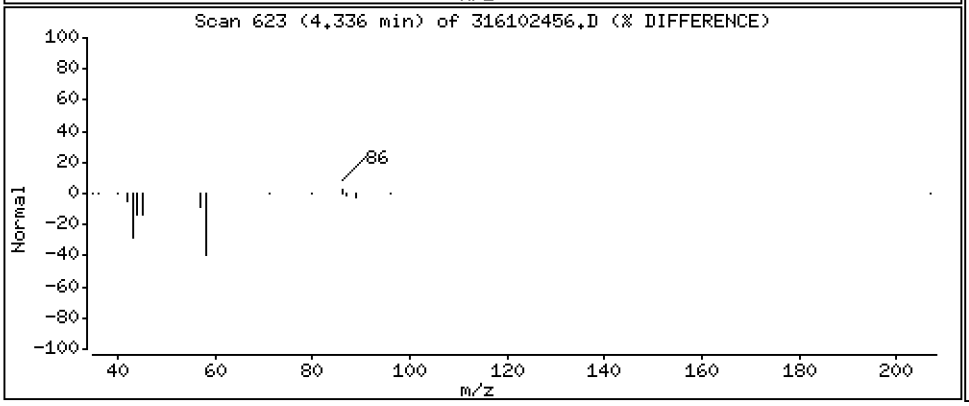
Column phase: DB-VRX Column diameter: 0.25

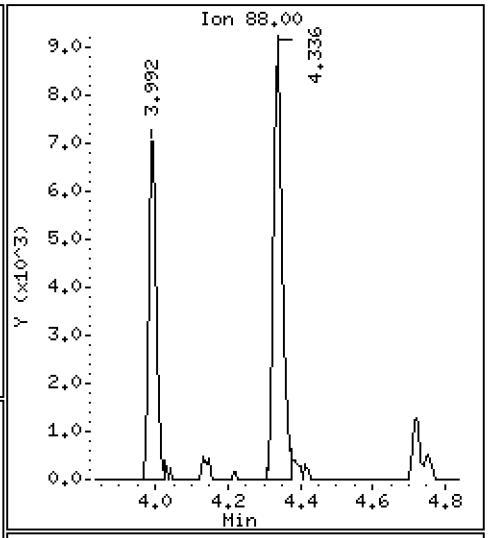
64 1,4-Dioxane Concentration: 418.353 ug/L

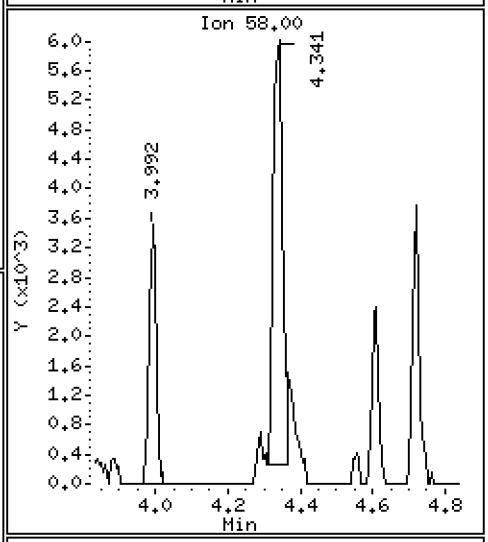


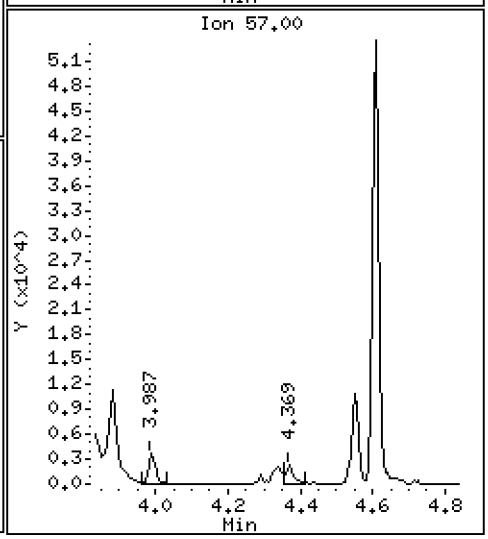












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 70

Date : 25-OCT-2016 00:30

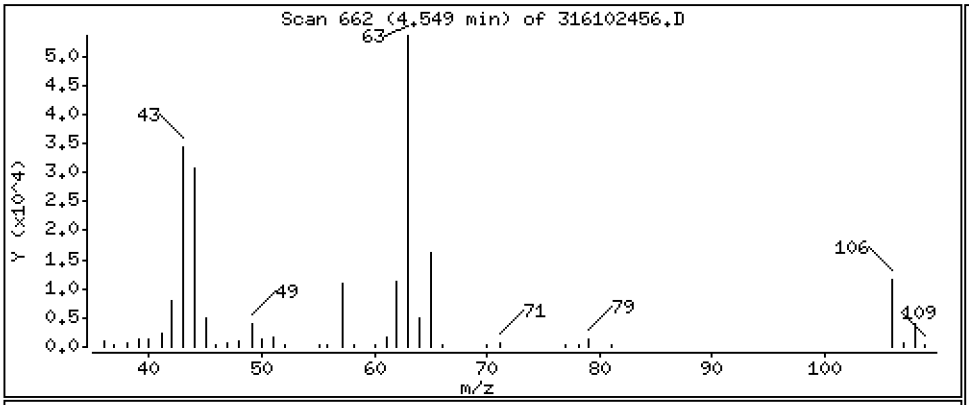
Client ID: Instrument: ms03.i

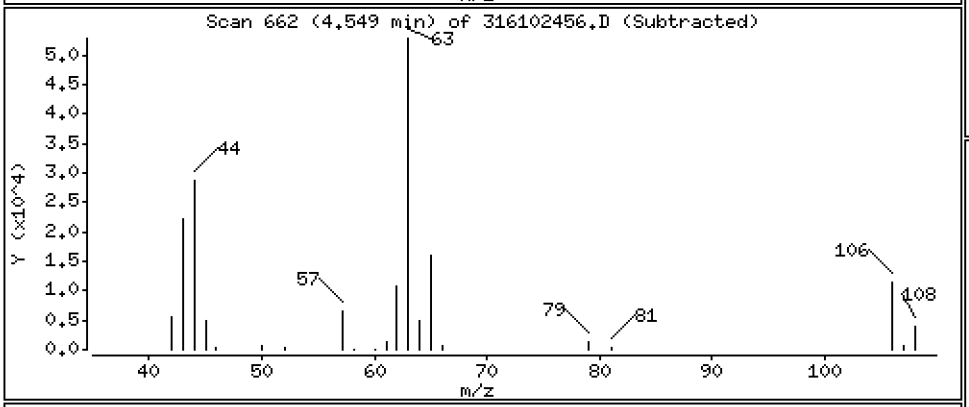
Sample Info: 1236;;1;1;3;;;

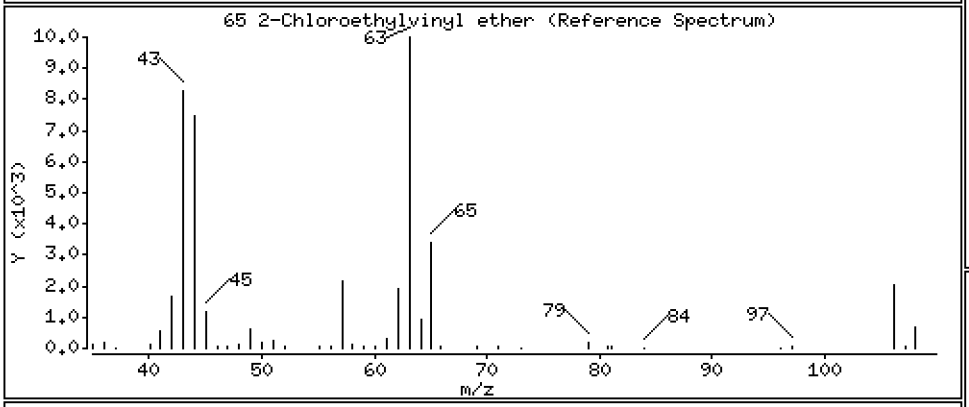
Purge Volume: 5.0 Operator: CJG

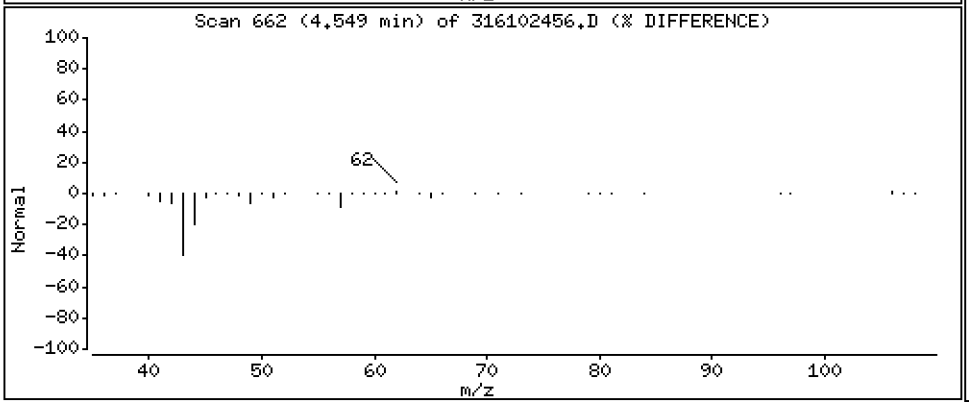
Column phase: DB-VRX Column diameter: 0.25

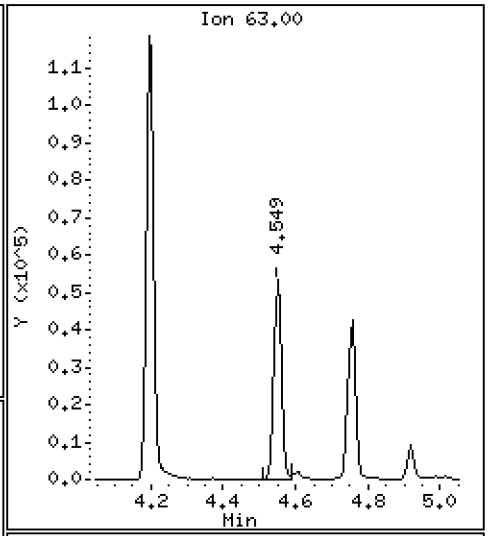
65 2-Chloroethylvinyl ether Concentration: 17.3366 ug/L

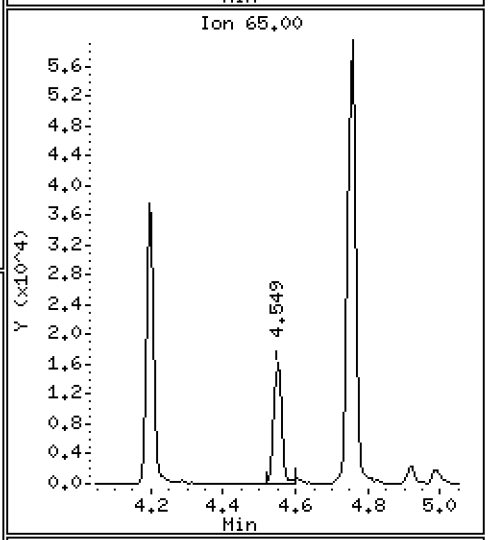


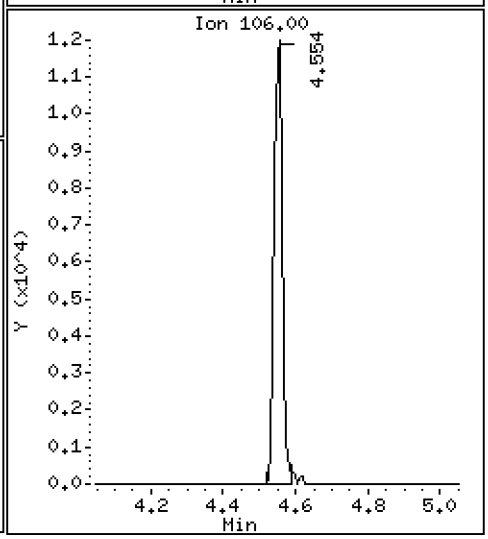












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 71

Date : 25-OCT-2016 00:30

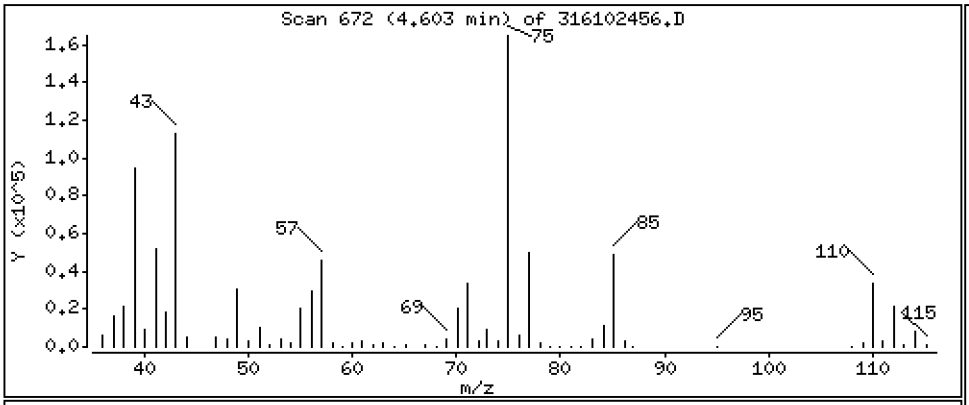
Client ID: Instrument: ms03.i

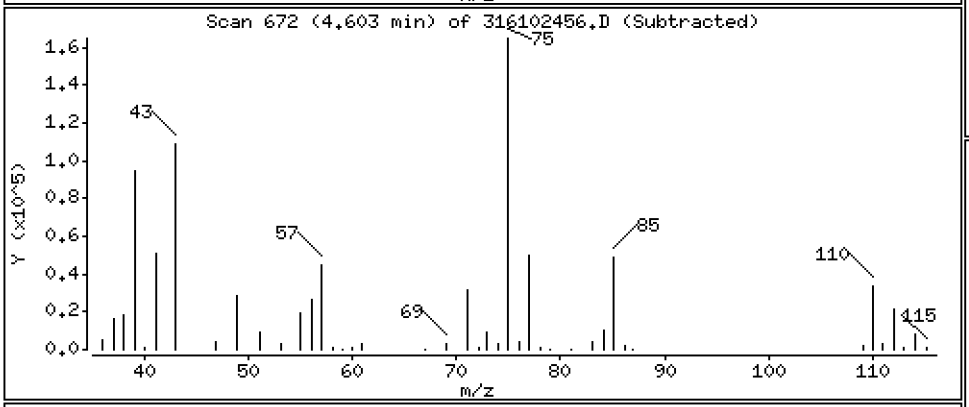
Sample Info: 1236;;1;1;3;;;

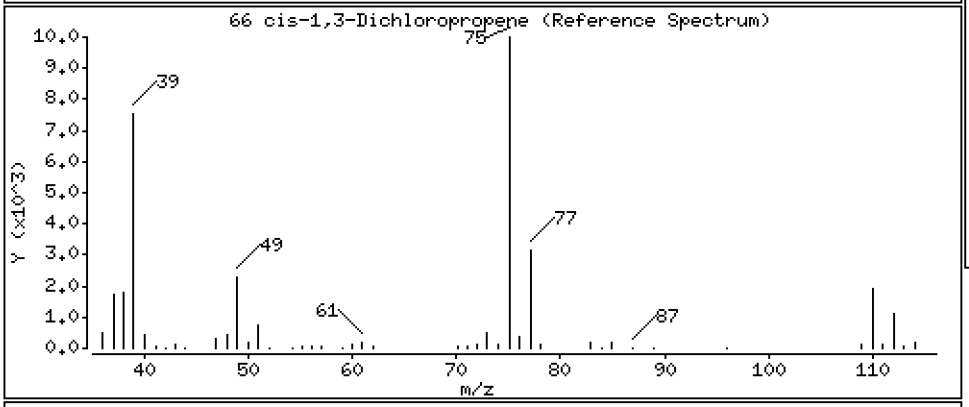
Purge Volume: 5.0 Operator: CJG

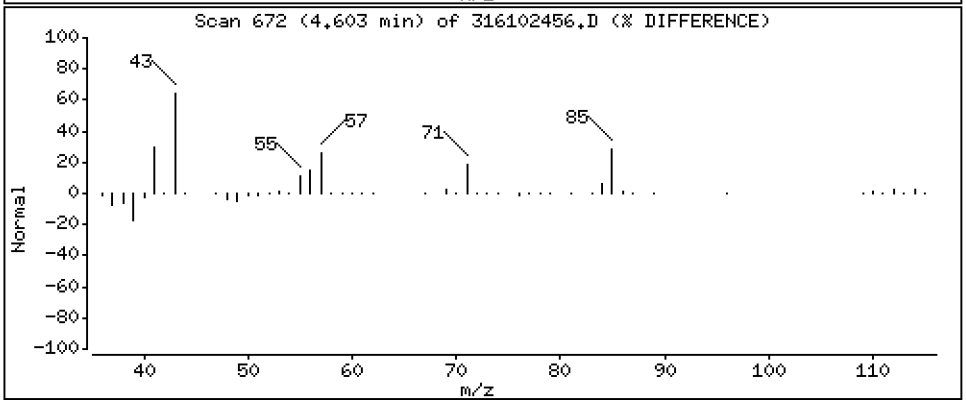
Column phase: DB-VRX Column diameter: 0.25

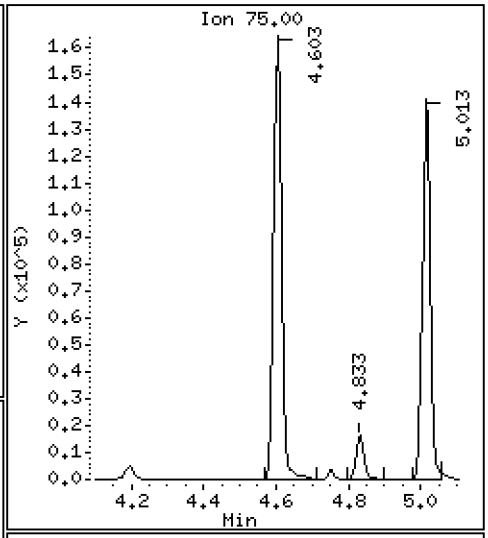
66 cis-1,3-Dichloropropene Concentration: 18.6362 ug/L

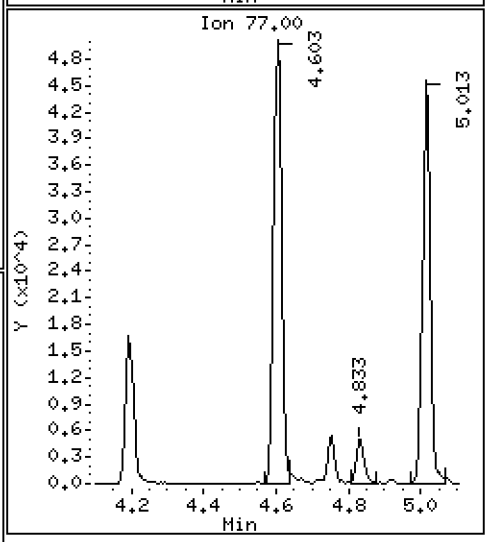












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 72

Date : 25-OCT-2016 00:30

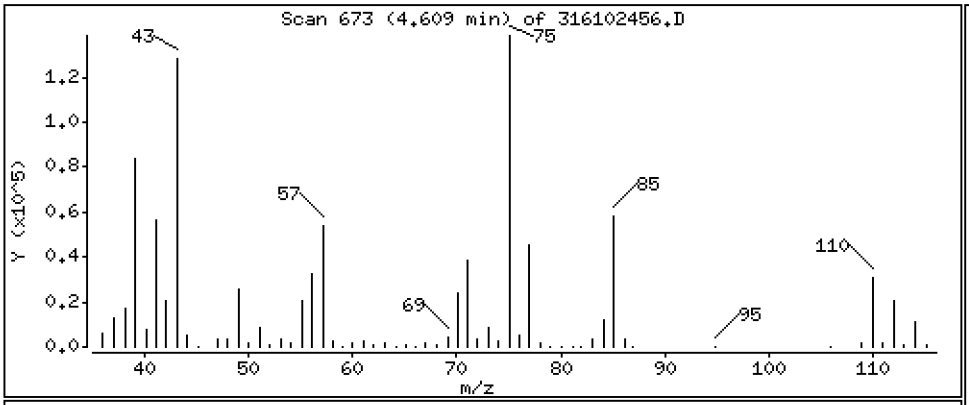
Client ID: Instrument: ms03.i

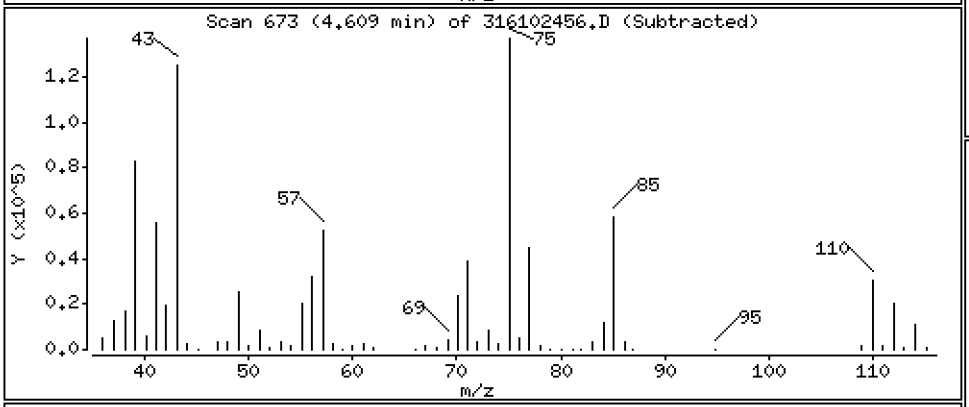
Sample Info: 1236;;1;1;3;;;

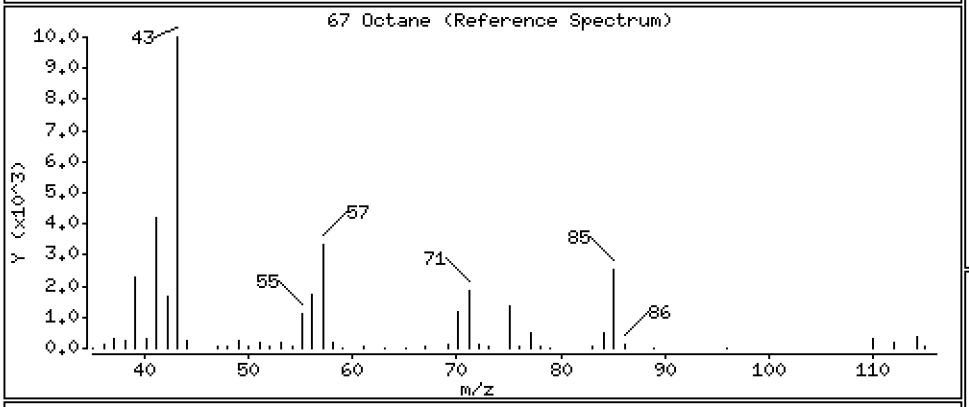
Purge Volume: 5.0 Operator: CJG

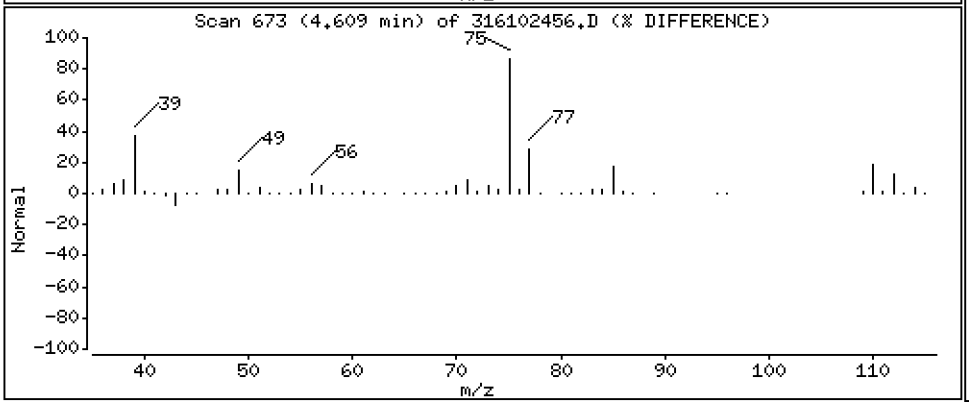
Column phase: DB-VRX Column diameter: 0.25

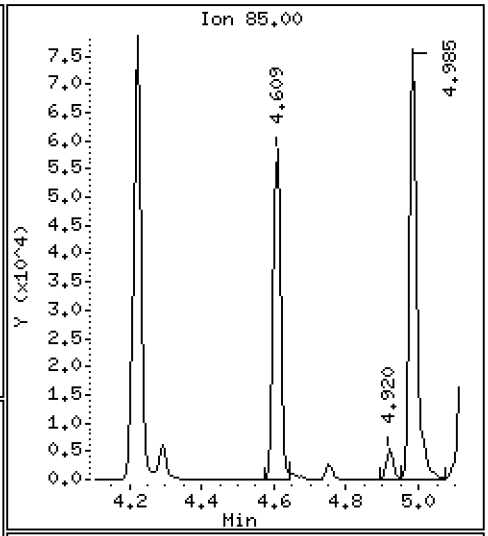
67 Octane Concentration: 21.9779 ug/L

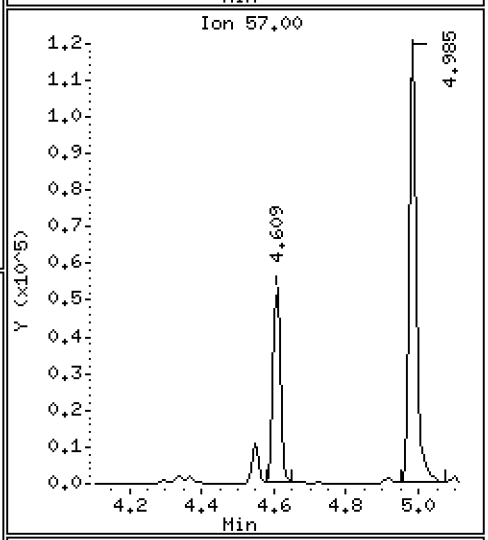


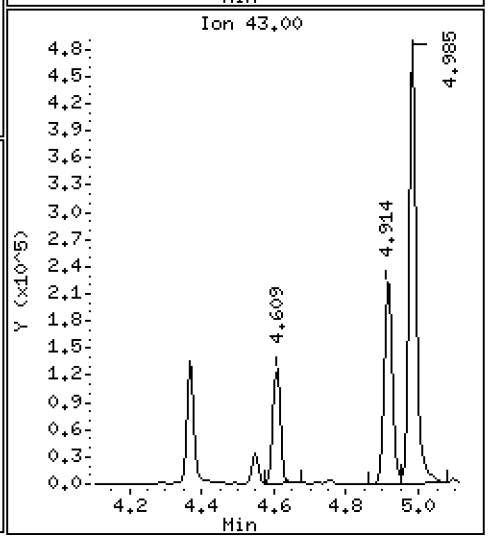












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 73

Date : 25-OCT-2016 00:30

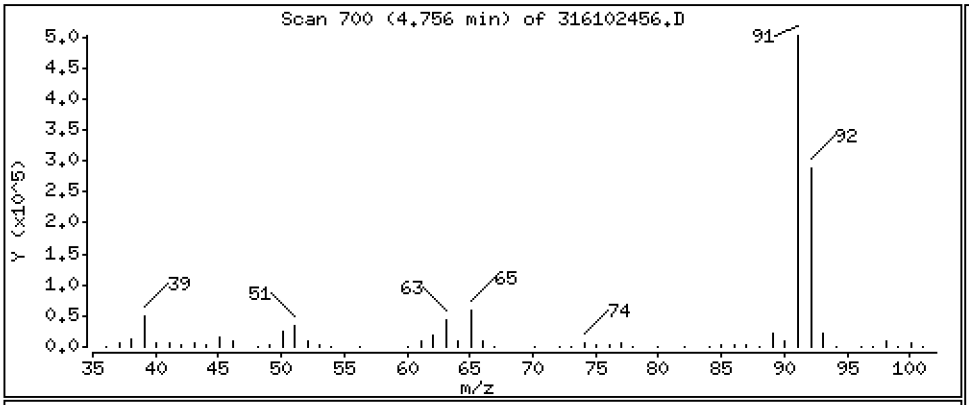
Client ID: Instrument: ms03.i

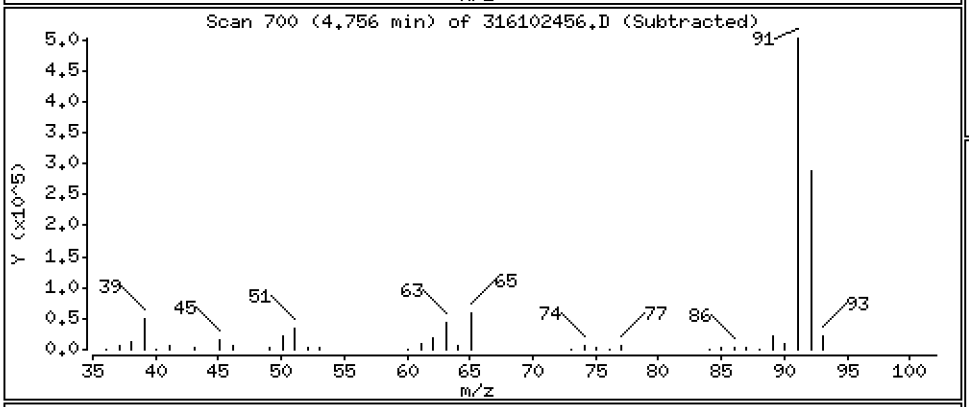
Sample Info: 1236;;1;1;3;;;

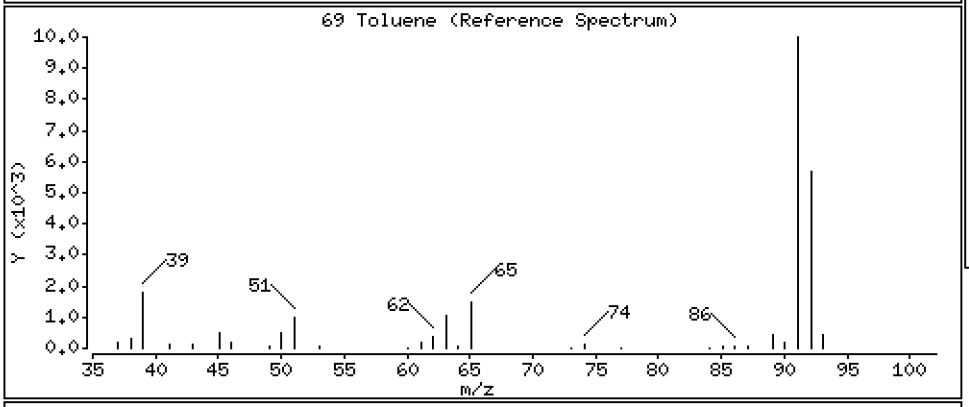
Purge Volume: 5.0 Operator: CJG

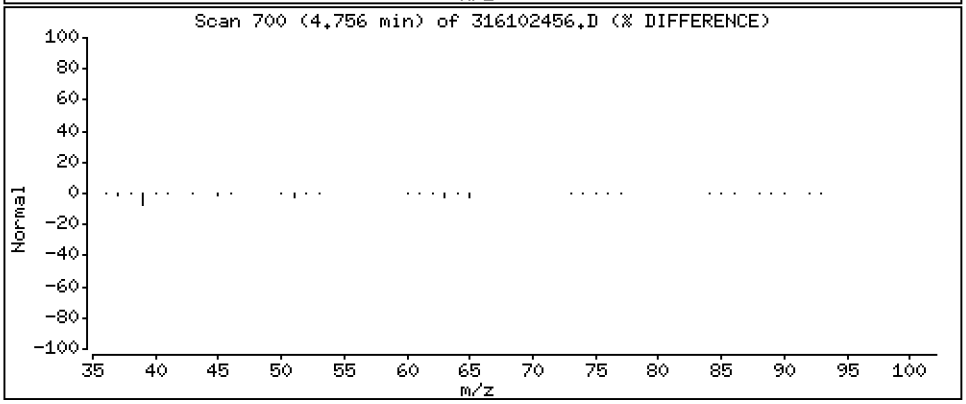
Column phase: DB-VRX Column diameter: 0.25

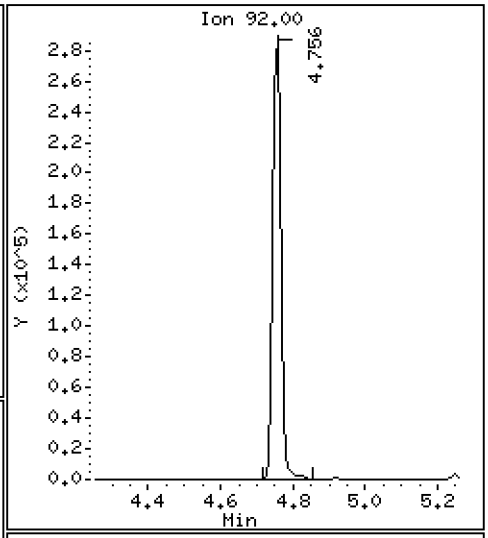
69 Toluene Concentration: 21.1753 ug/L

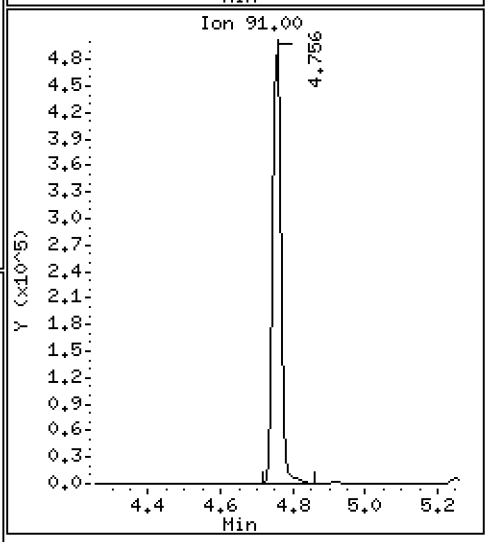












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 74

Date : 25-OCT-2016 00:30

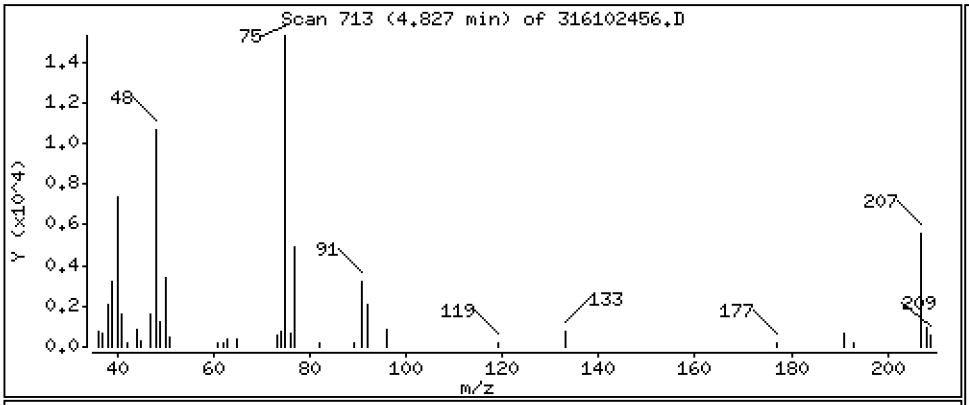
Client ID: Instrument: ms03.i

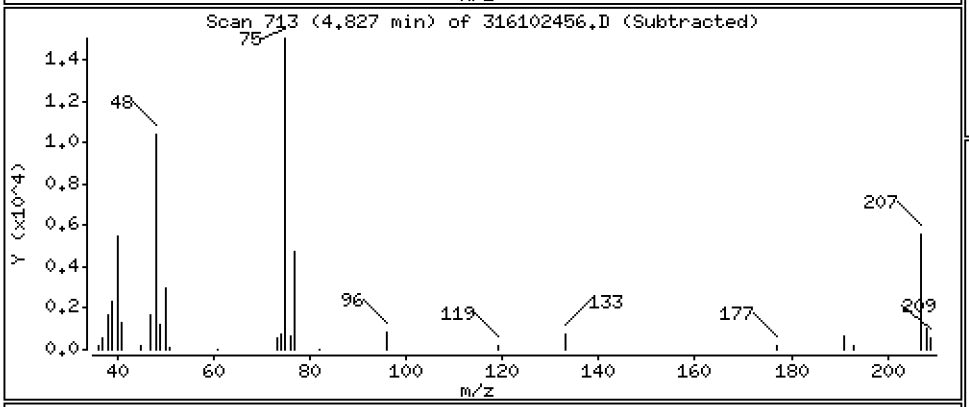
Sample Info: 1236;;1;1;3;;;

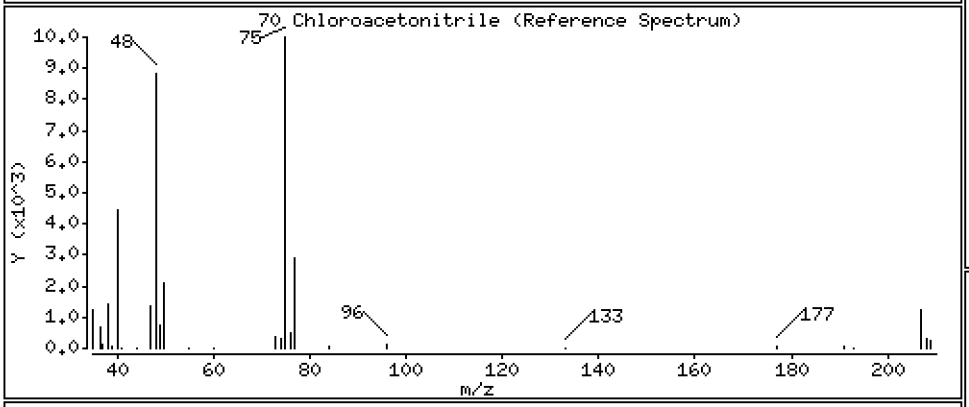
Purge Volume: 5.0 Operator: CJG

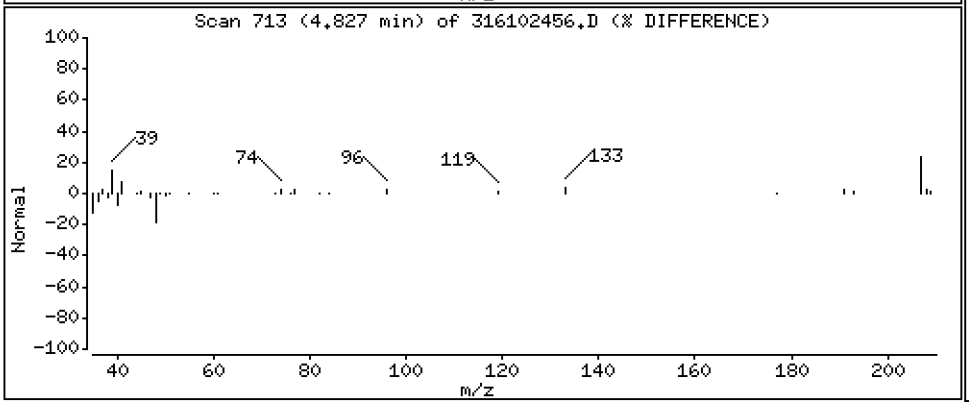
Column phase: DB-VRX Column diameter: 0.25

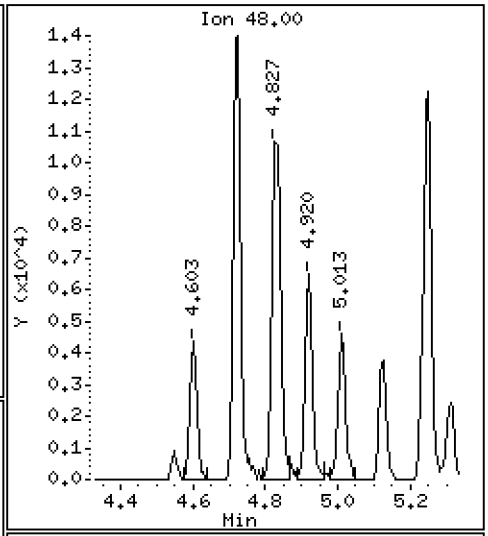
70 Chloroacetonitrile Concentration: 90.4287 ug/L

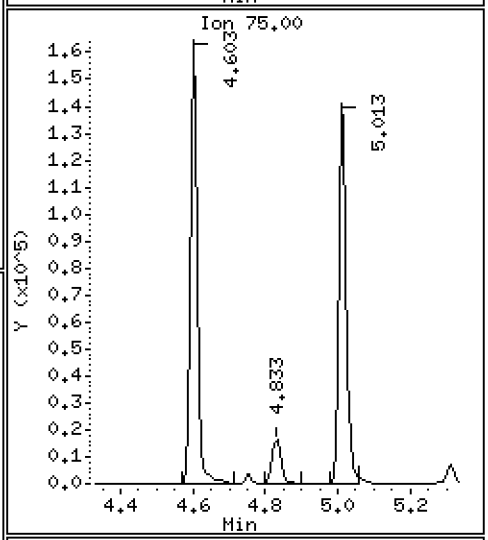


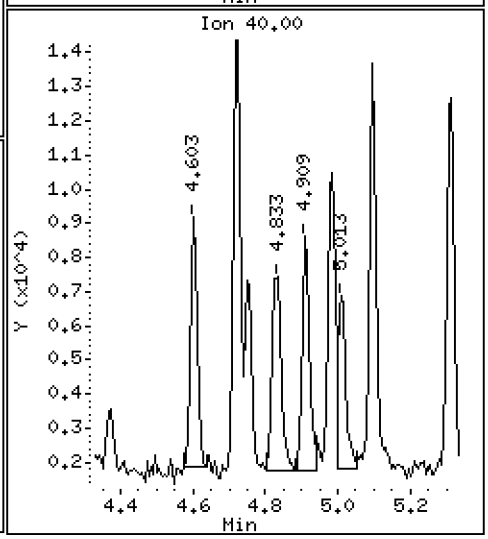












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 75

Date : 25-OCT-2016 00:30

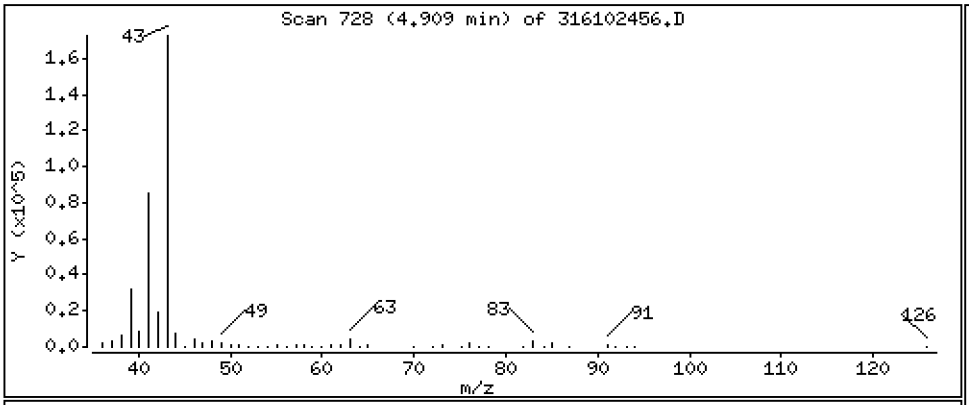
Client ID: Instrument: ms03.i

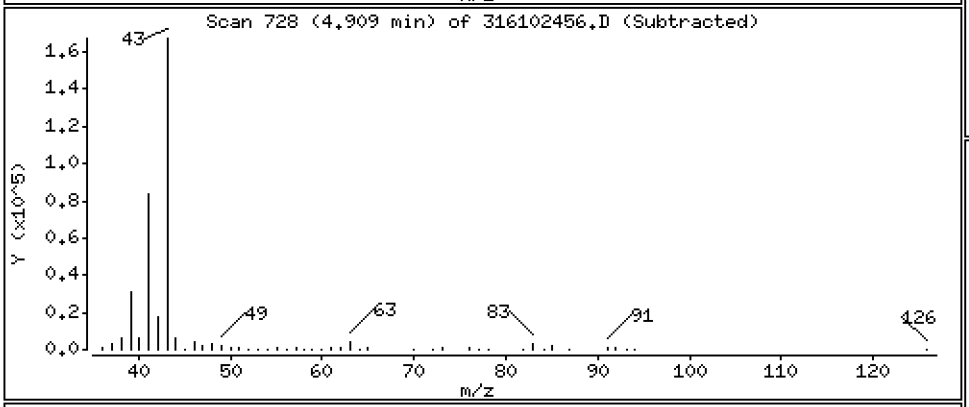
Sample Info: 1236;;1;1;3;;;

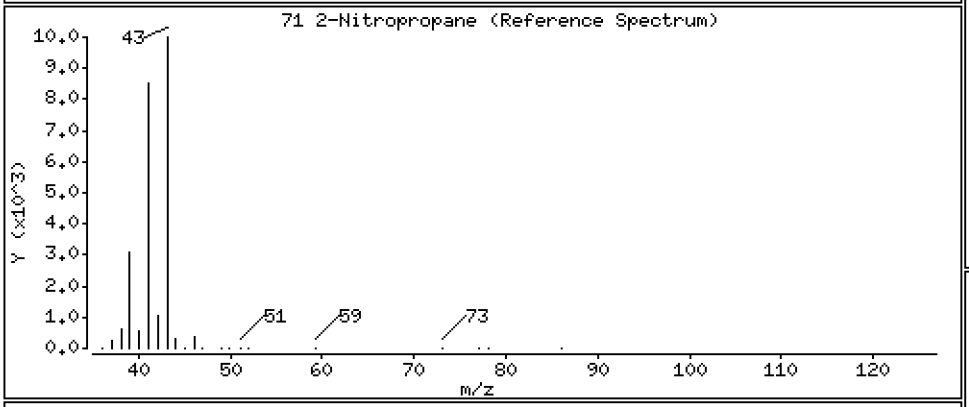
Purge Volume: 5.0 Operator: CJG

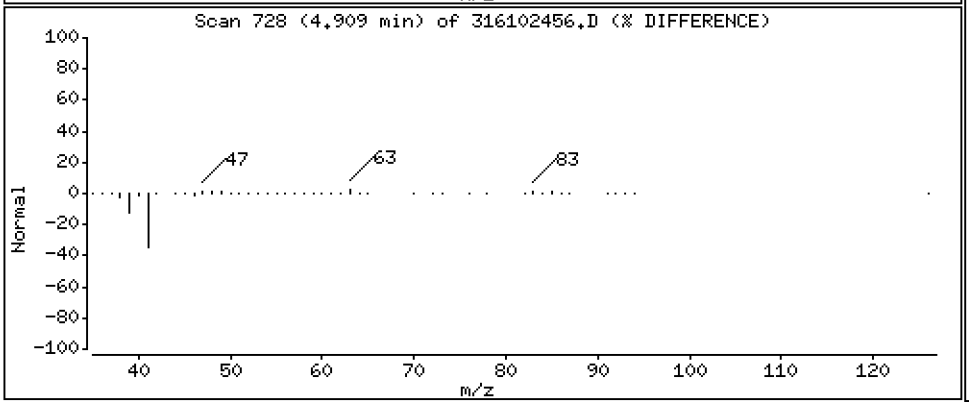
Column phase: DB-VRX Column diameter: 0.25

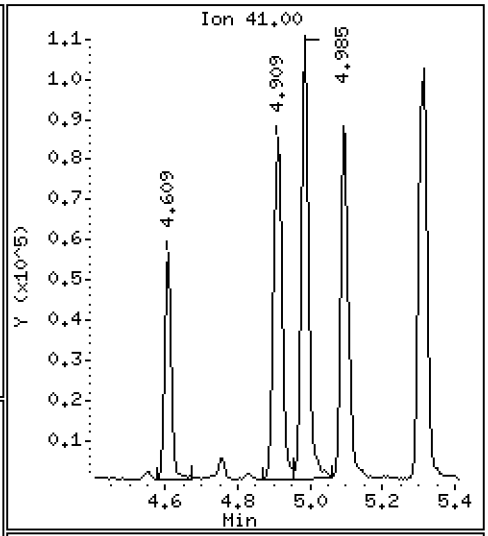
71 2-Nitropropane Concentration: 88.7300 ug/L

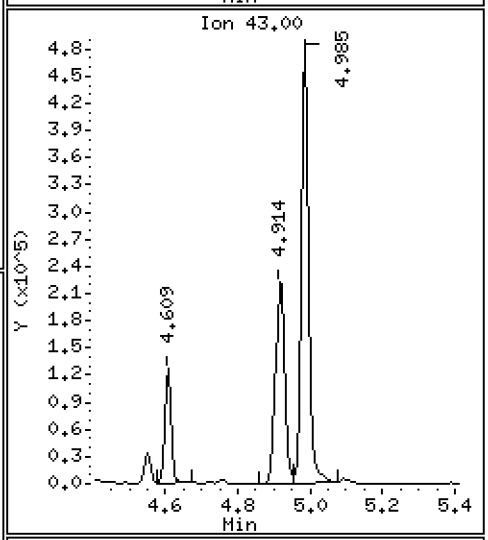


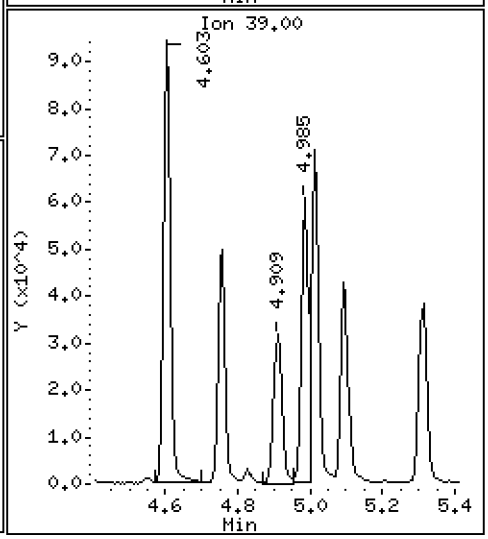












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 76

Date : 25-OCT-2016 00:30

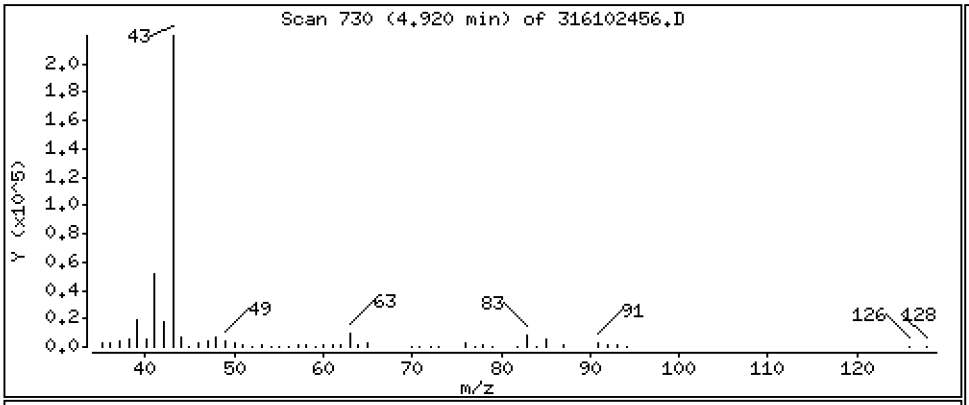
Client ID: Instrument: ms03.i

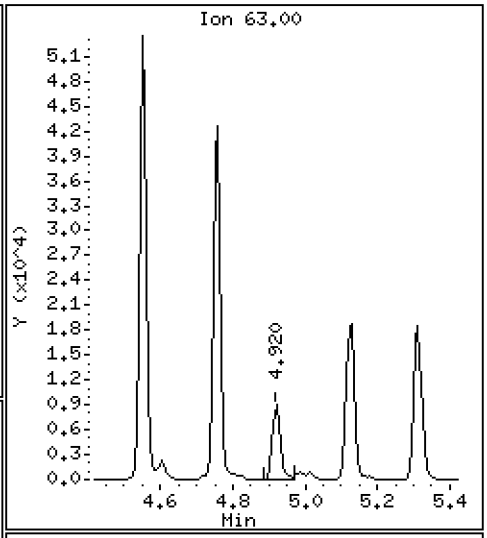
Sample Info: 1236;;1;1;3;;;

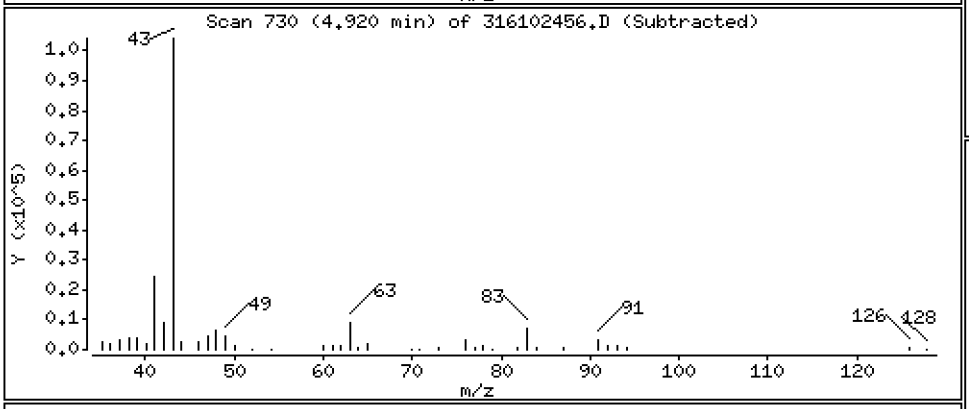
Purge Volume: 5.0 Operator: CJG

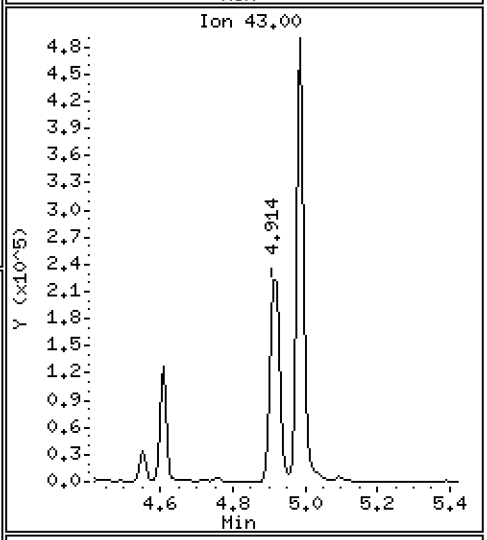
Column phase: DB-VRX Column diameter: 0.25

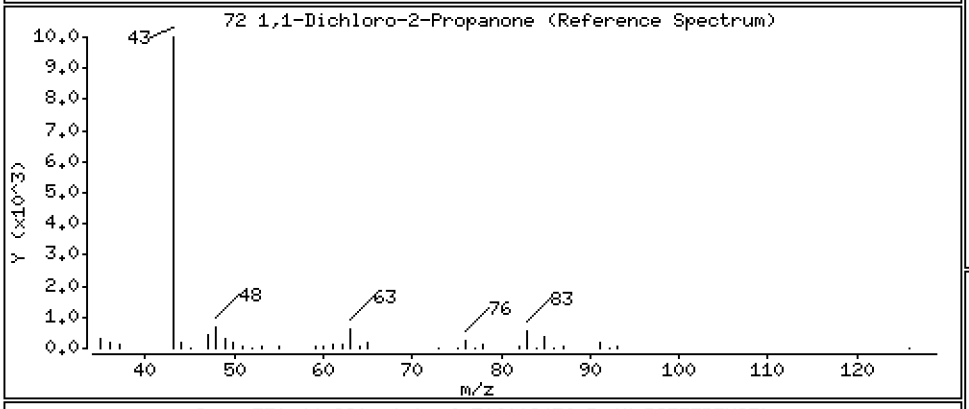
72 1,1-Dichloro-2-Propanone Concentration: 92.9587 ug/L

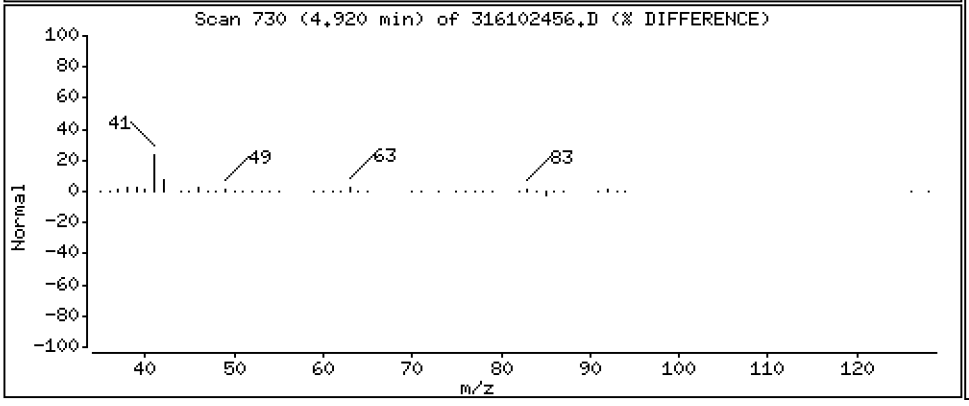


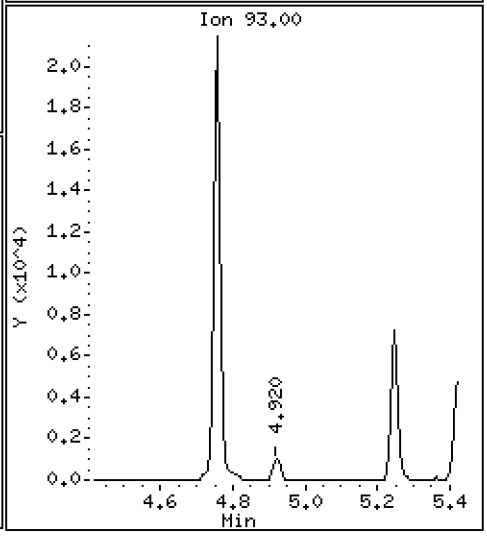












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 77

Date : 25-OCT-2016 00:30

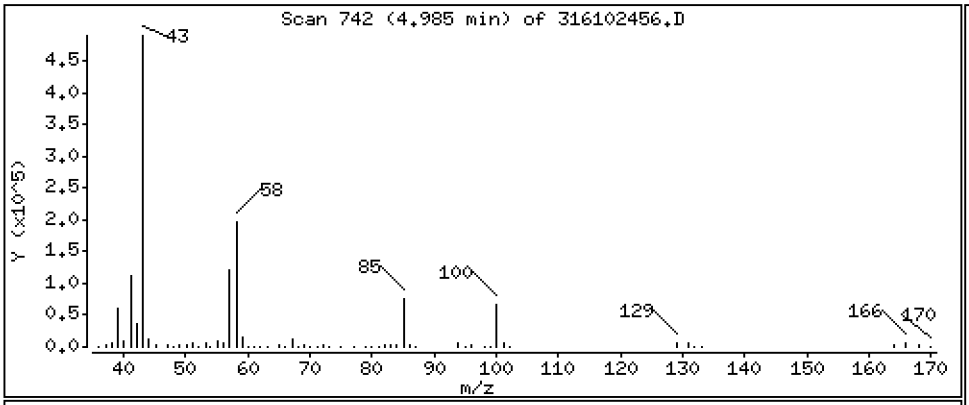
Client ID: Instrument: ms03.i

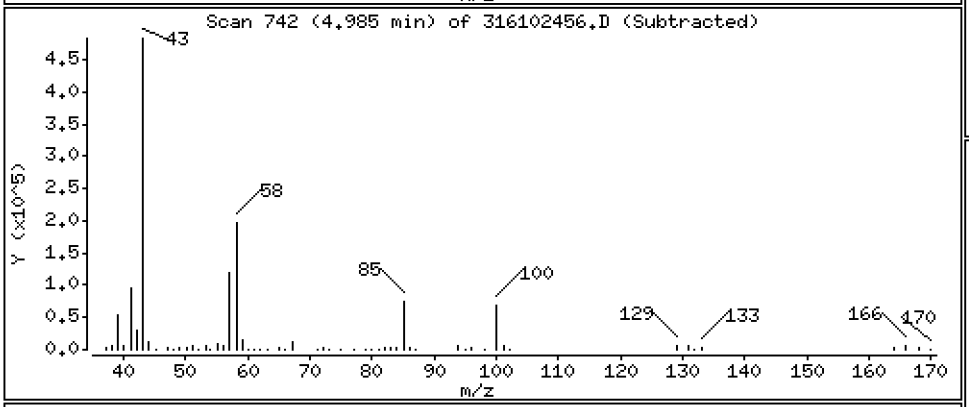
Sample Info: 1236;;1;1;3;;;

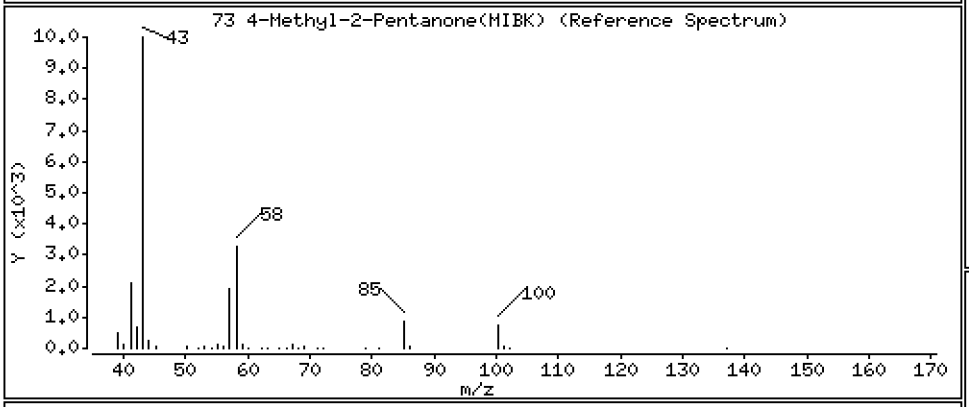
Purge Volume: 5.0 Operator: CJG

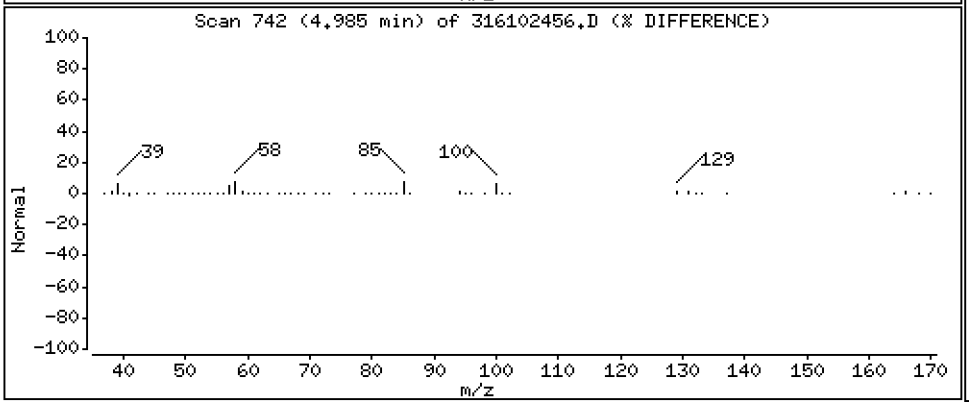
Column phase: DB-VRX Column diameter: 0.25

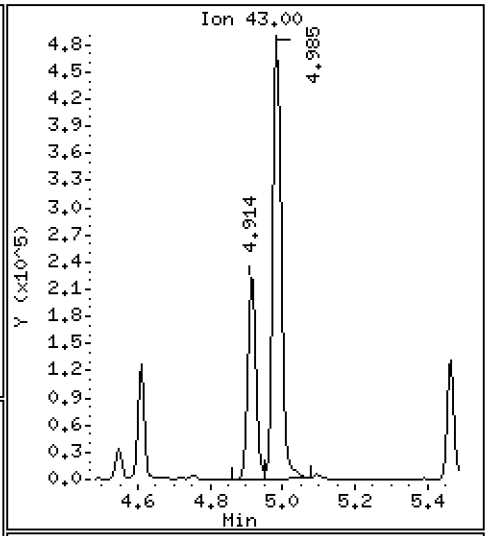
73 4-Methyl-2-Pentanone(MIBK) Concentration: 96.8150 ug/L

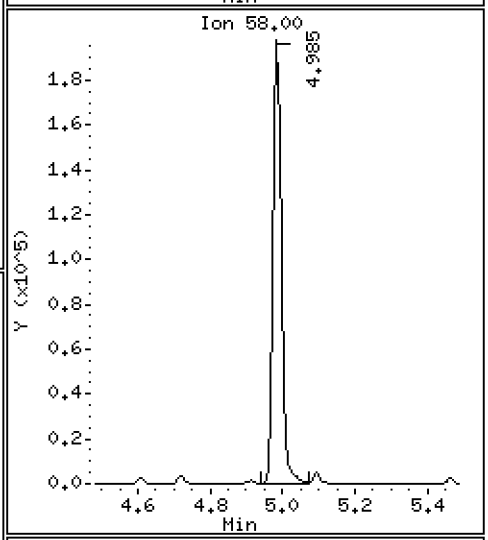


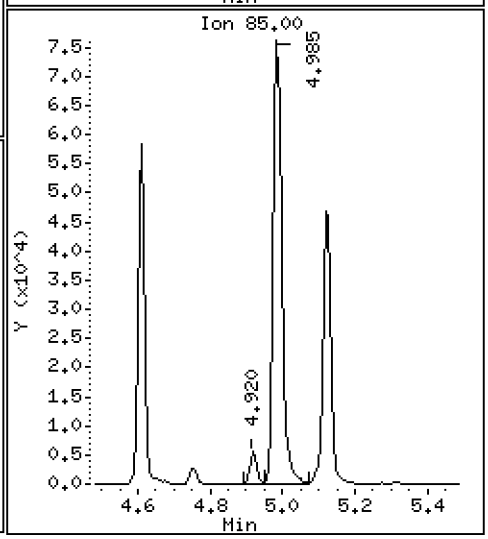












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 78

Date : 25-OCT-2016 00:30

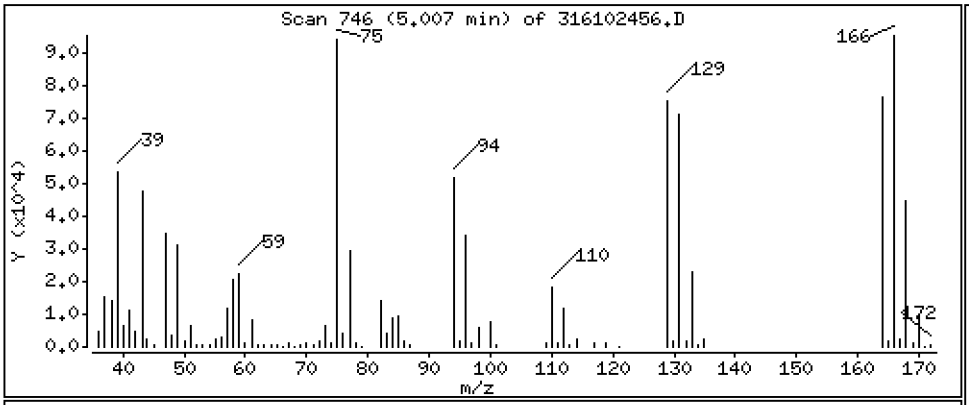
Client ID: Instrument: ms03.i

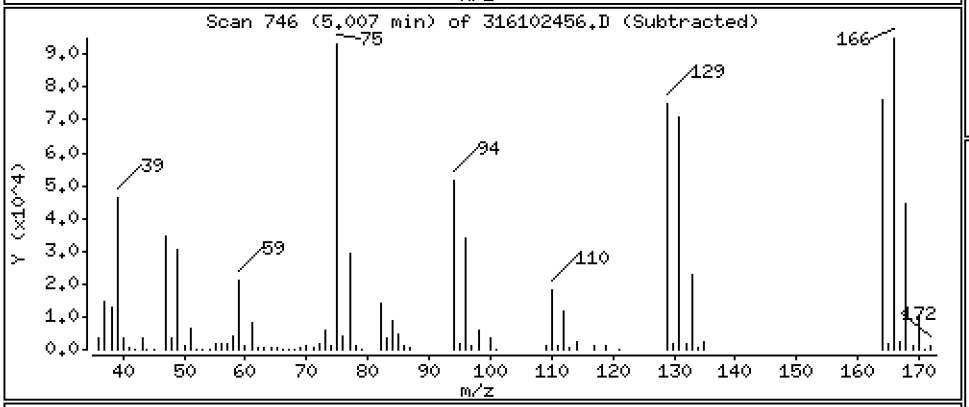
Sample Info: 1236;;1;1;3;;;

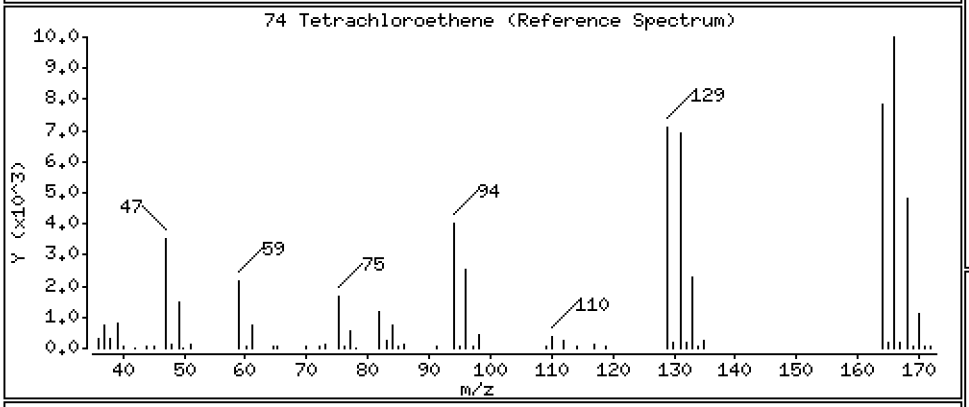
Purge Volume: 5.0 Operator: CJG

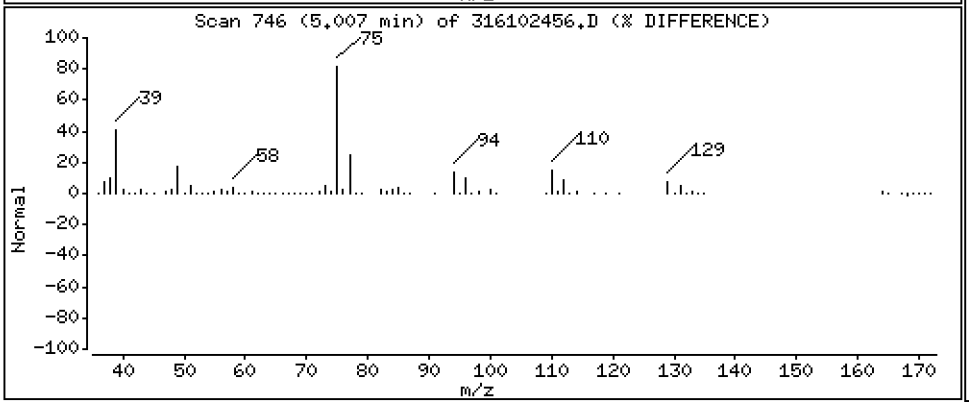
Column phase: DB-VRX Column diameter: 0.25

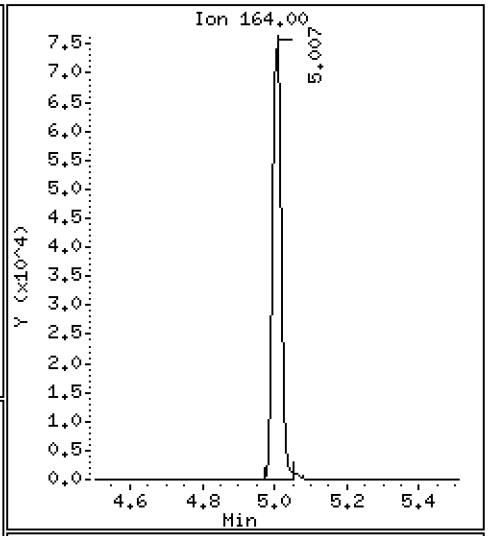
74 Tetrachloroethene Concentration: 22.7108 ug/L

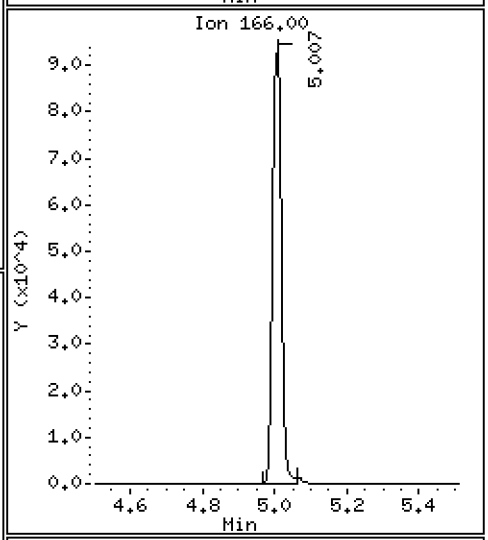


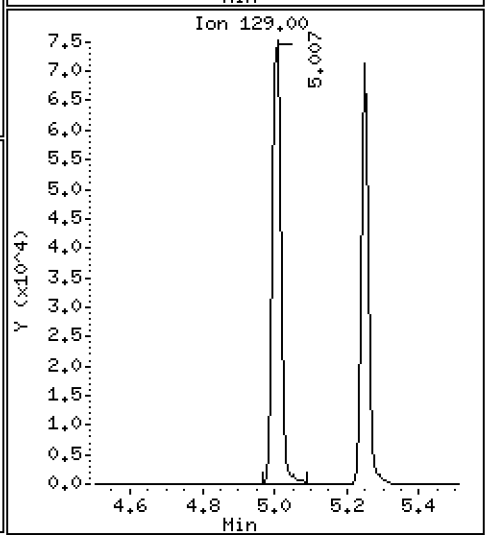












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 79

Date : 25-OCT-2016 00:30

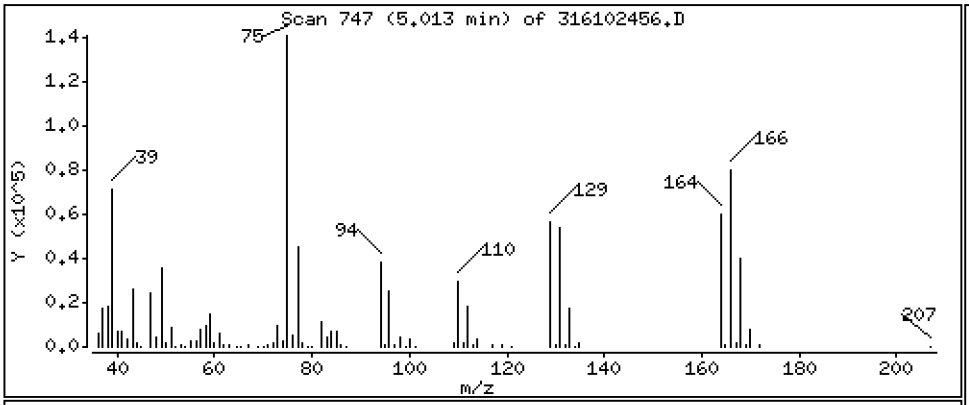
Client ID: Instrument: ms03.i

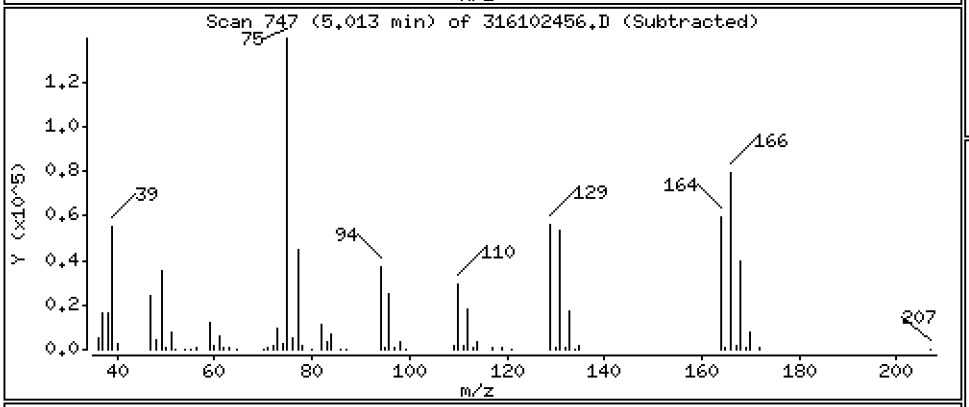
Sample Info: 1236;;1;1;3;;;

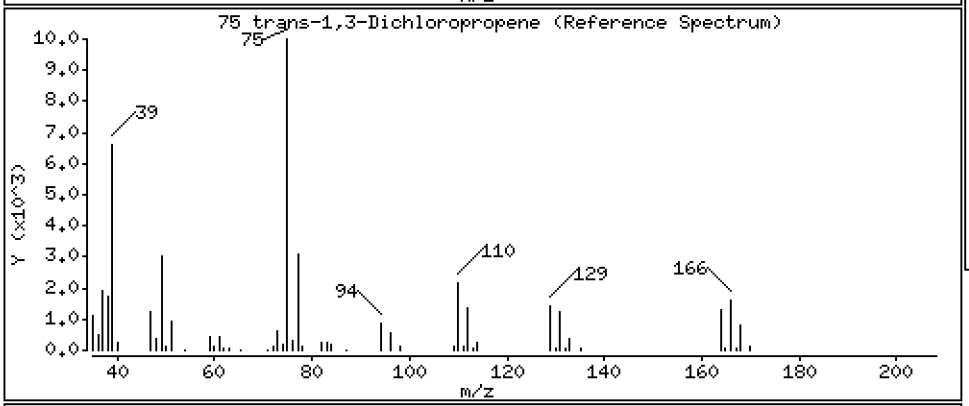
Purge Volume: 5.0 Operator: CJG

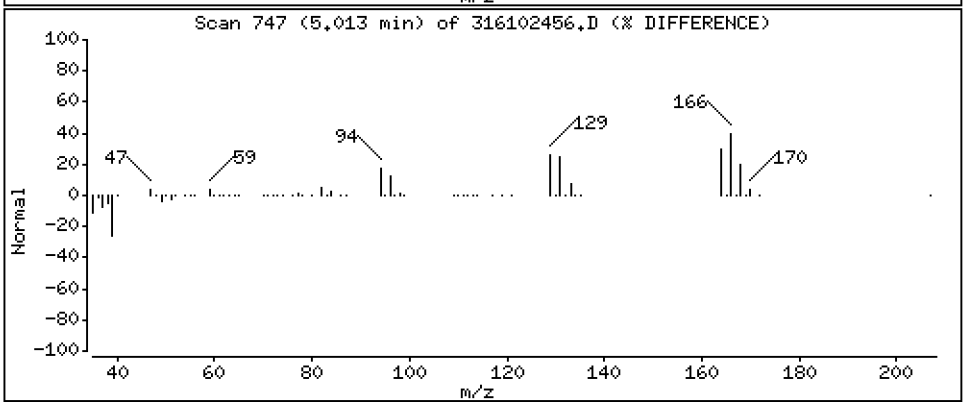
Column phase: DB-VRX Column diameter: 0.25

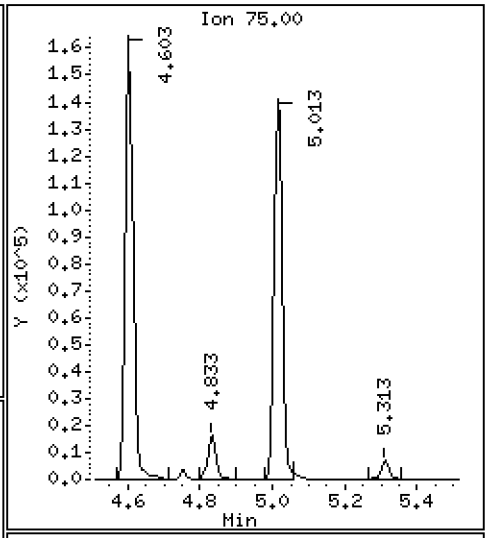
75 trans-1,3-Dichloropropene Concentration: 18.6188 ug/L

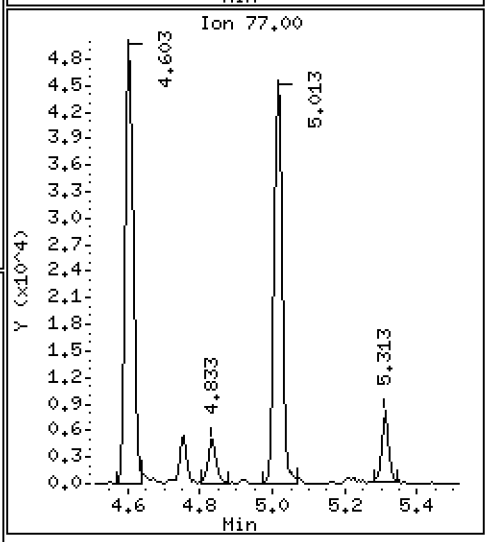












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 80

Date : 25-OCT-2016 00:30

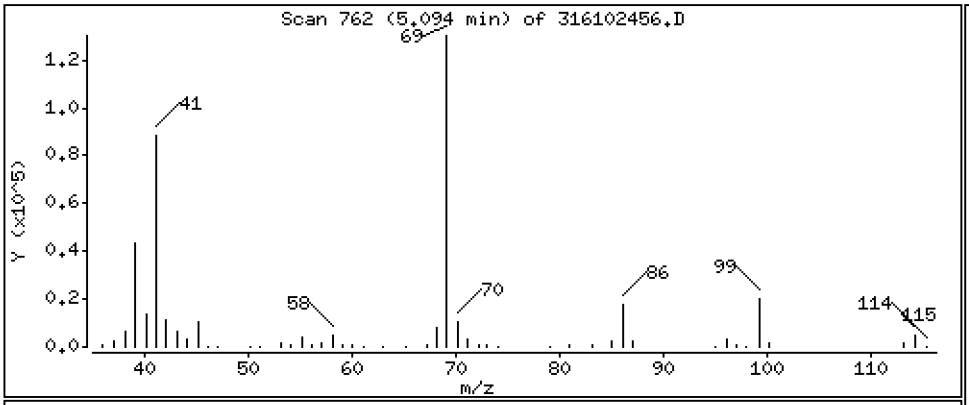
Client ID: Instrument: ms03.i

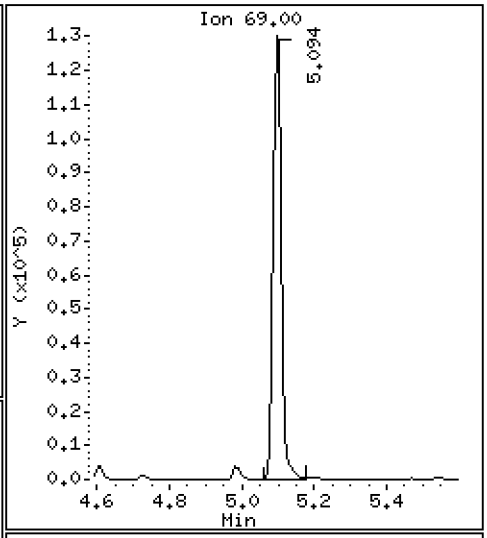
Sample Info: 1236;;1;1;3;;;

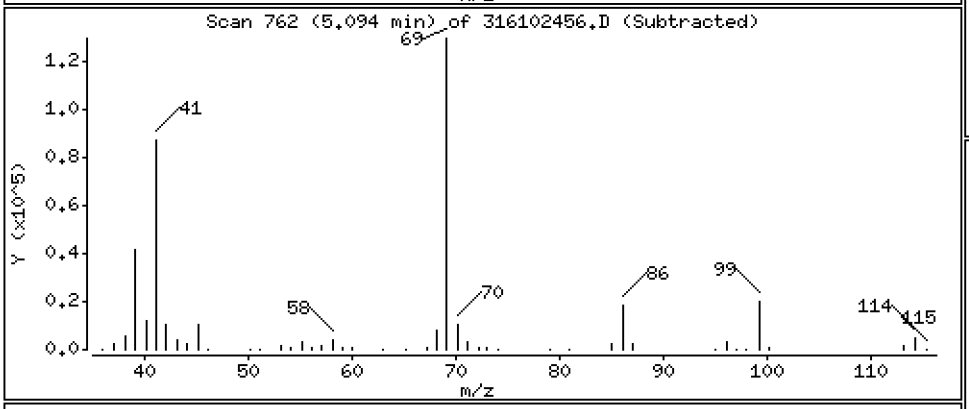
Purge Volume: 5.0 Operator: CJG

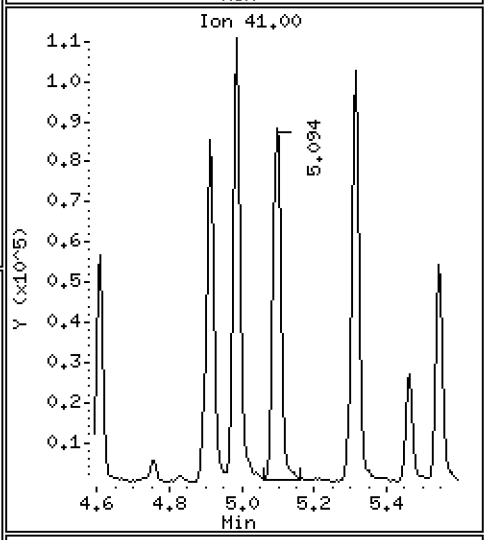
Column phase: DB-VRX Column diameter: 0.25

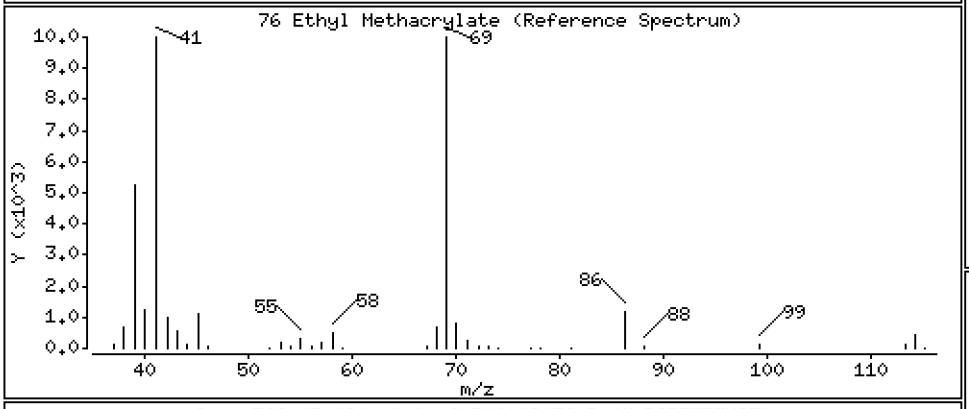
76 Ethyl Methacrylate Concentration: 18.7051 ug/L

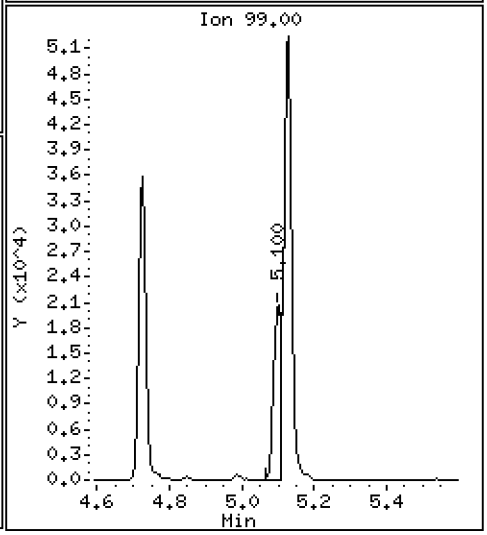


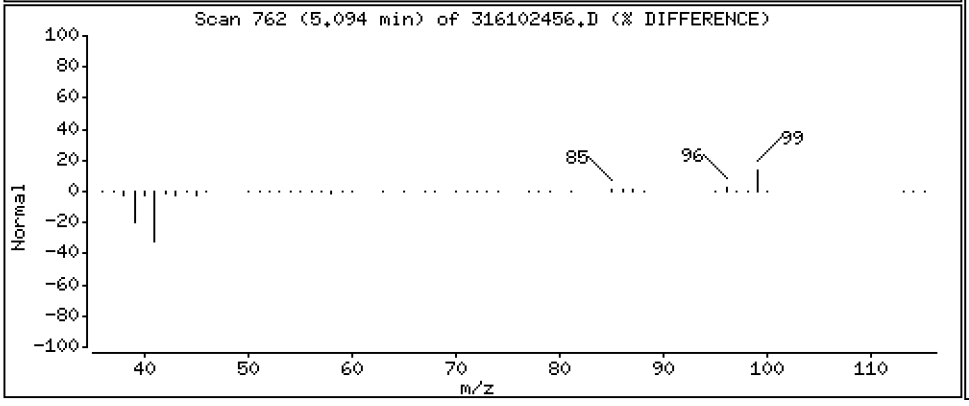












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 81

Date : 25-OCT-2016 00:30

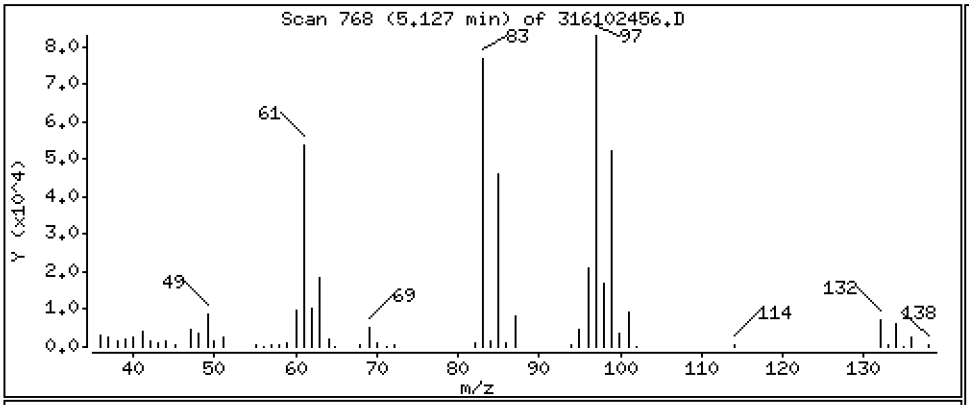
Client ID: Instrument: ms03.i

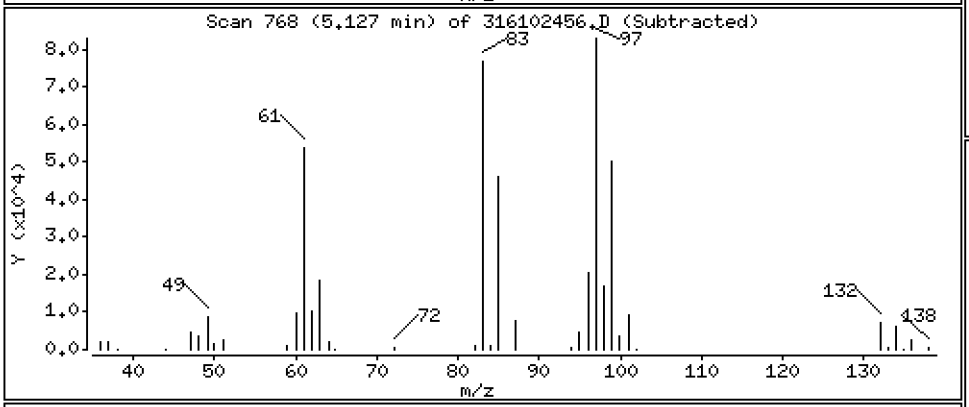
Sample Info: 1236;;1;1;3;;;

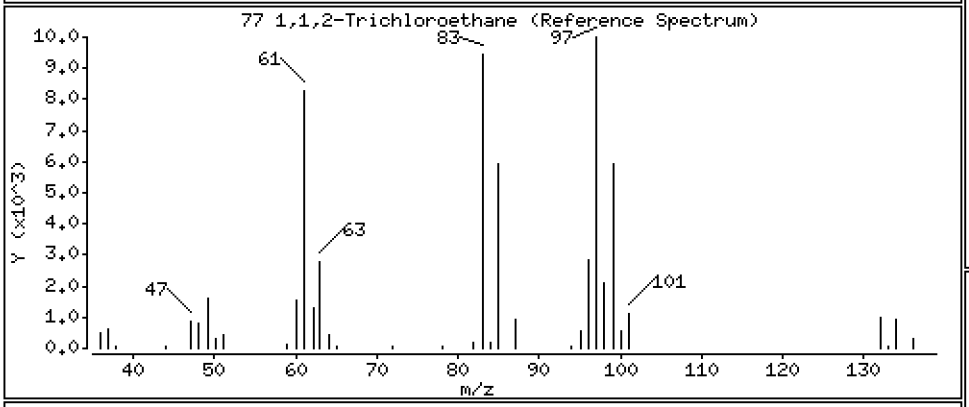
Purge Volume: 5.0 Operator: CJG

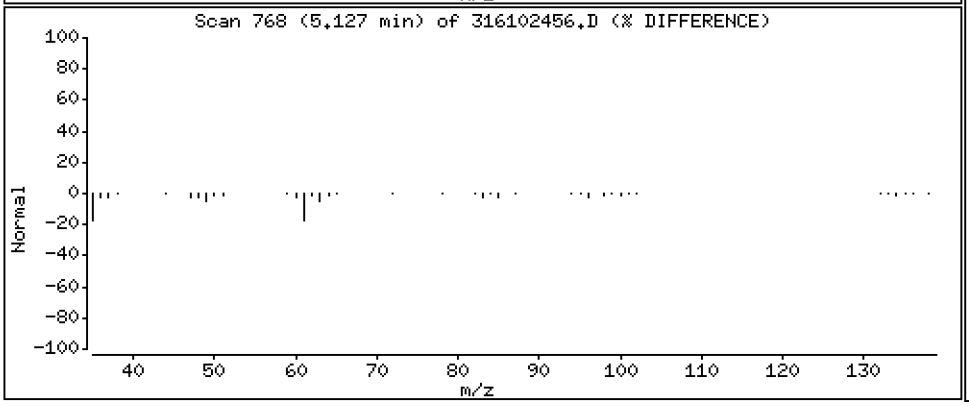
Column phase: DB-VRX Column diameter: 0.25

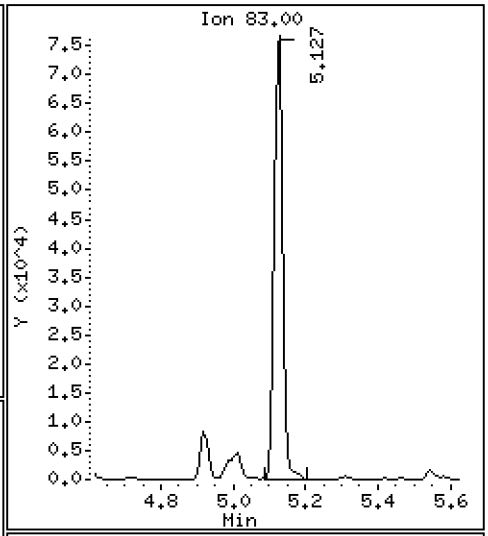
77 1,1,2-Trichloroethane Concentration: 20.5033 ug/L

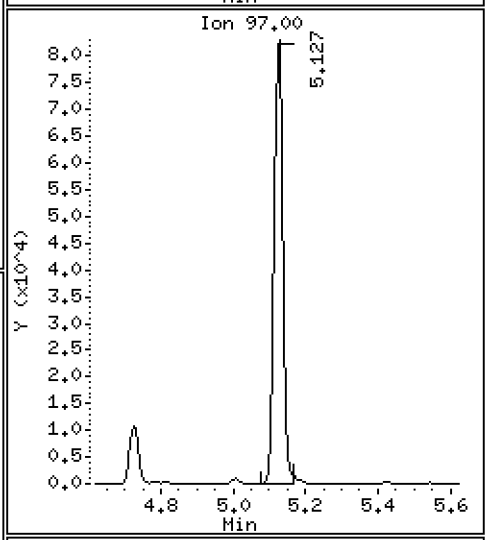


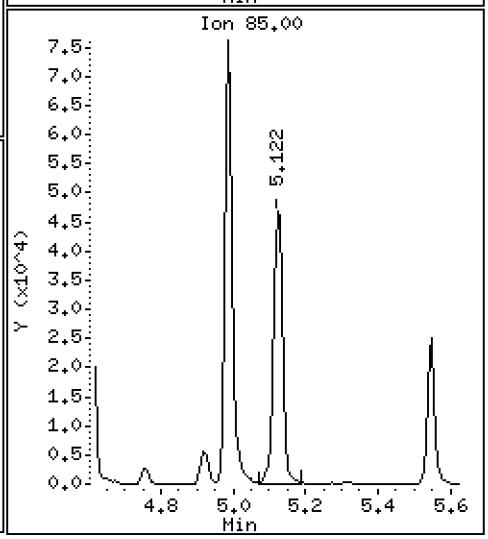












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 82

Date : 25-OCT-2016 00:30

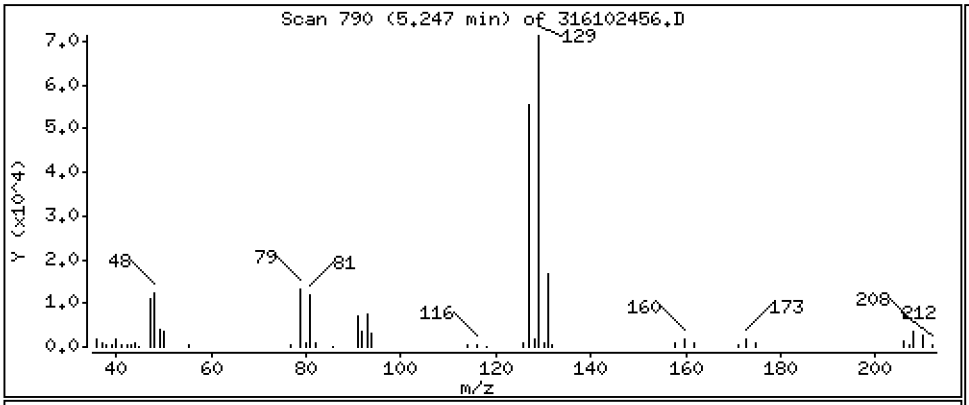
Client ID: Instrument: ms03.i

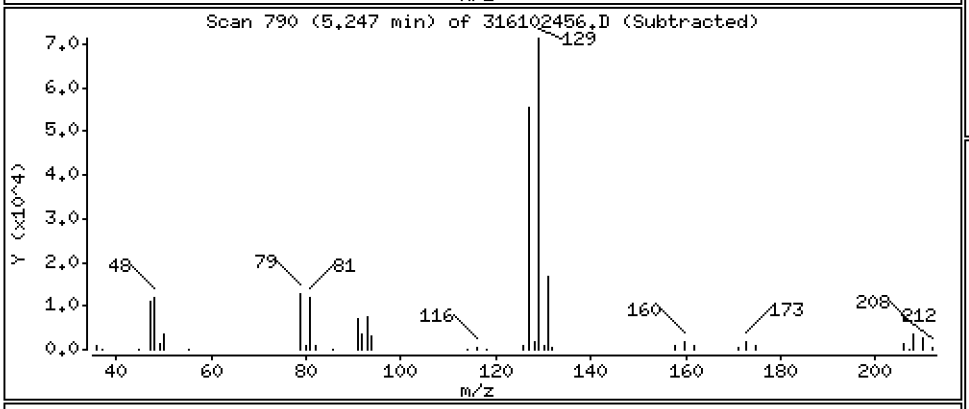
Sample Info: 1236;;1;1;3;;;

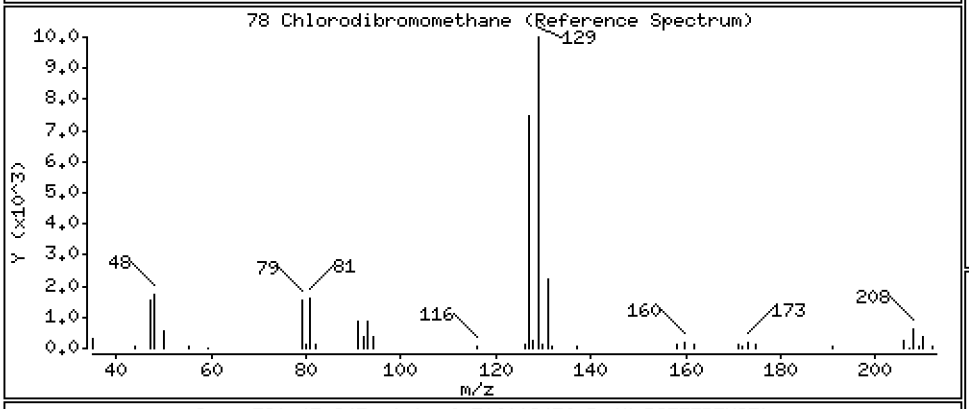
Purge Volume: 5.0 Operator: CJG

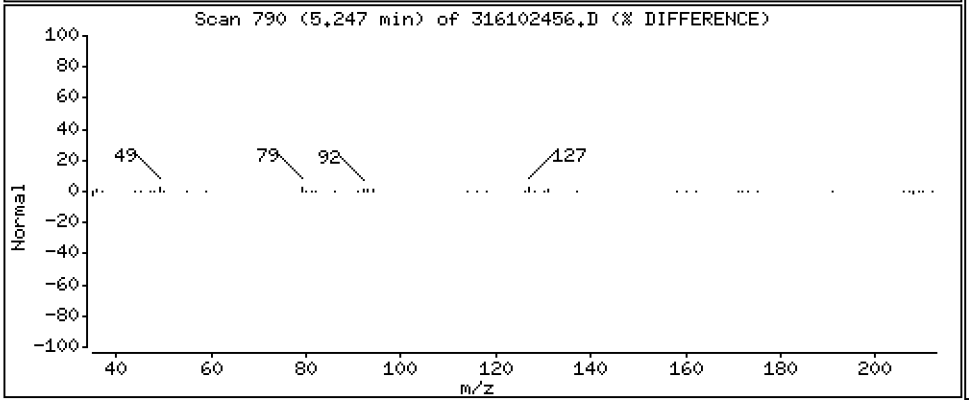
Column phase: DB-VRX Column diameter: 0.25

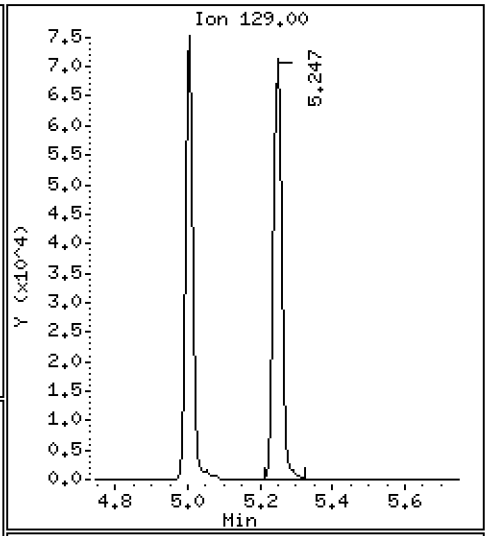
78 Chlorodibromomethane Concentration: 18.5687 ug/L

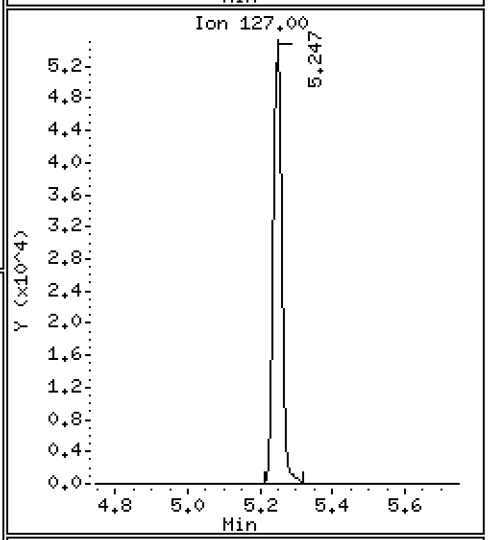


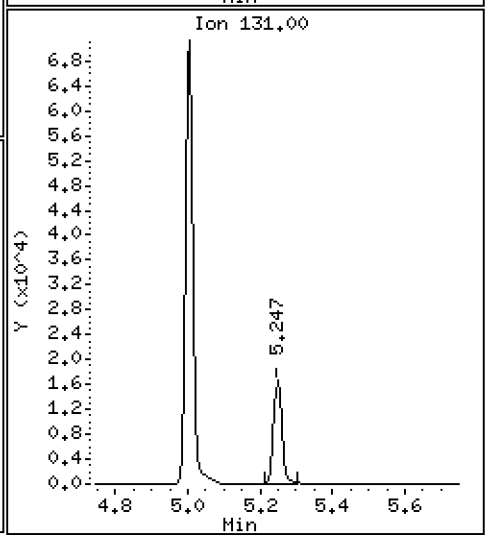












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 83

Date : 25-OCT-2016 00:30

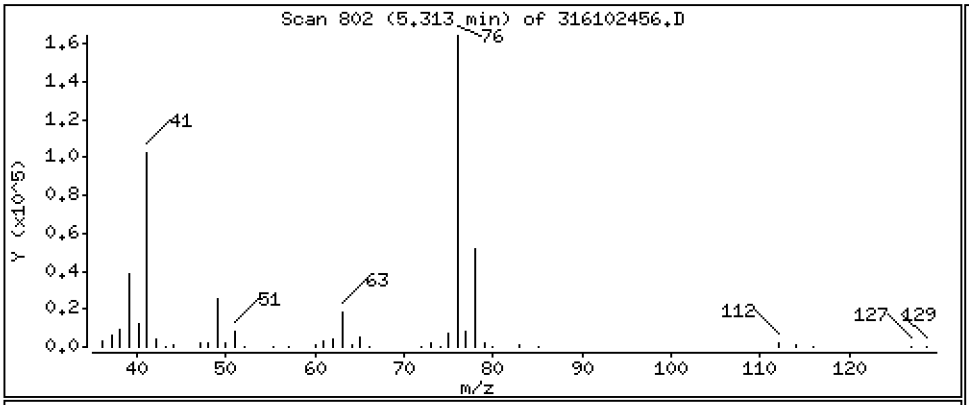
Client ID: Instrument: ms03.i

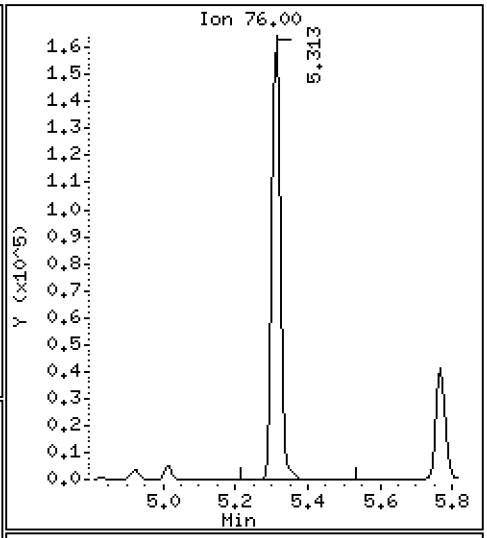
Sample Info: 1236;;1;1;3;;;

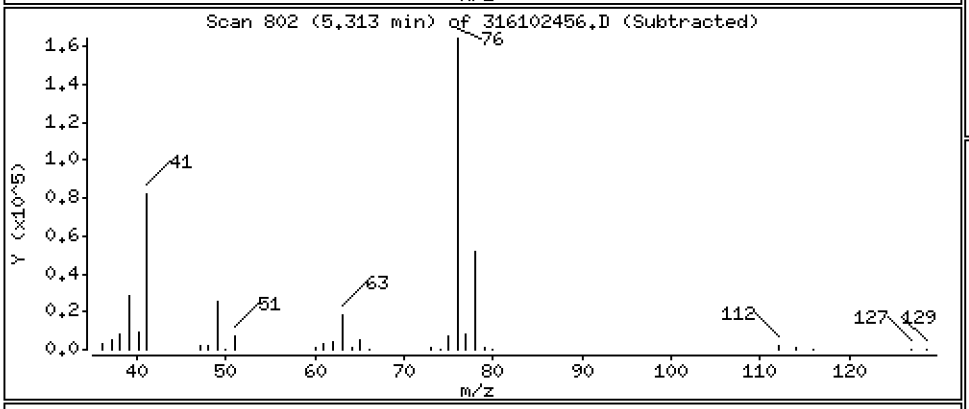
Purge Volume: 5.0 Operator: CJG

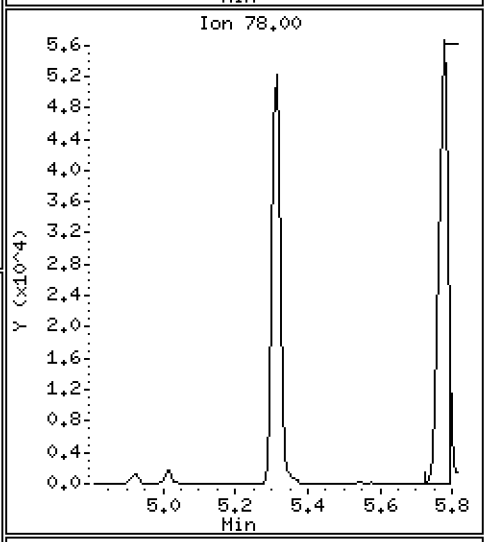
Column phase: DB-VRX Column diameter: 0.25

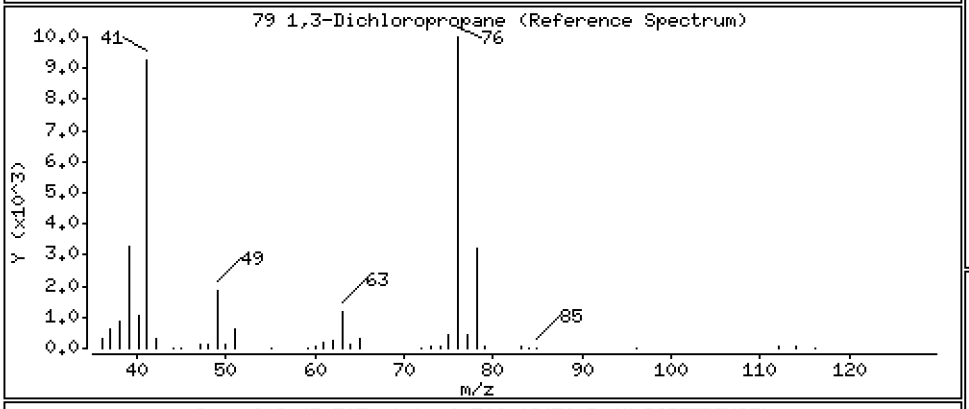
79 1,3-Dichloropropane Concentration: 20.1134 ug/L

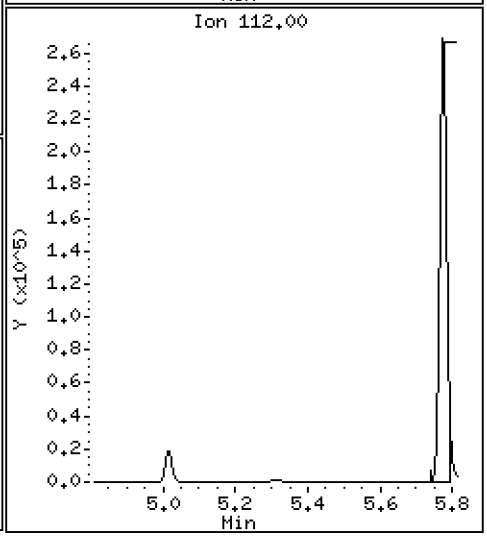


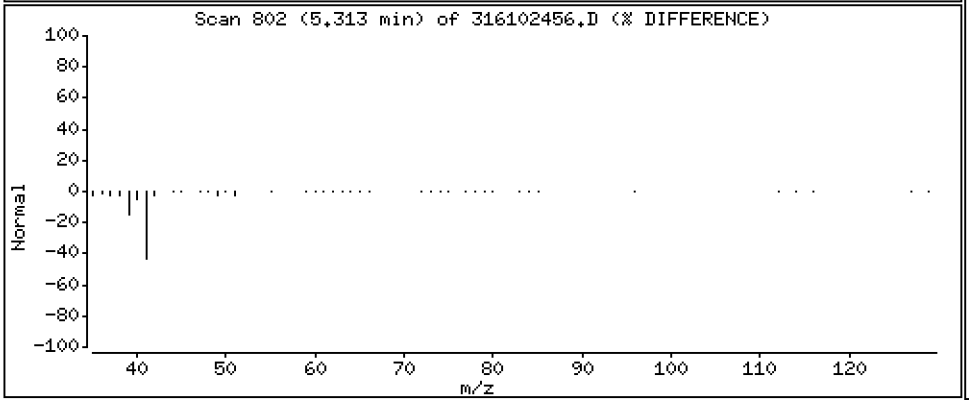












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 84

Date : 25-OCT-2016 00:30

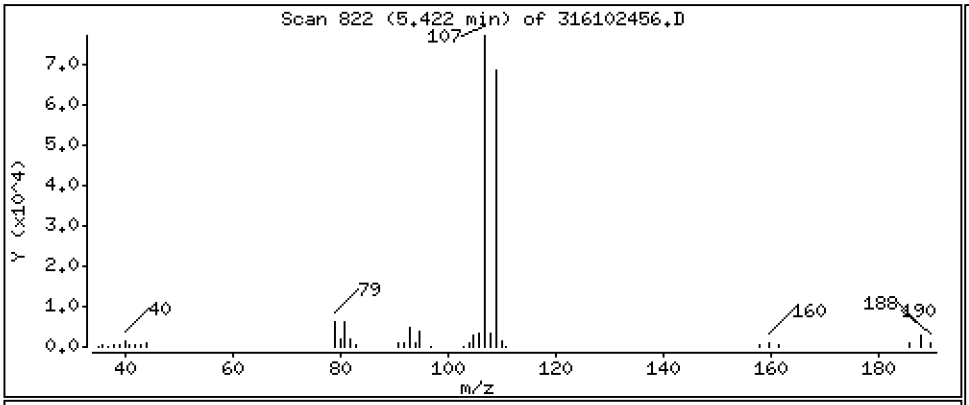
Client ID: Instrument: ms03.i

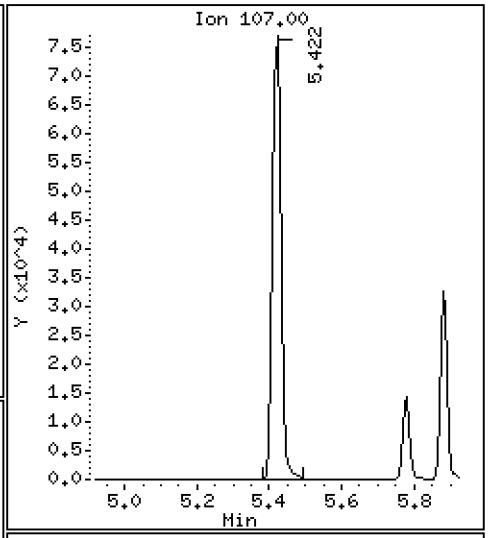
Sample Info: 1236;;1;1;3;;;

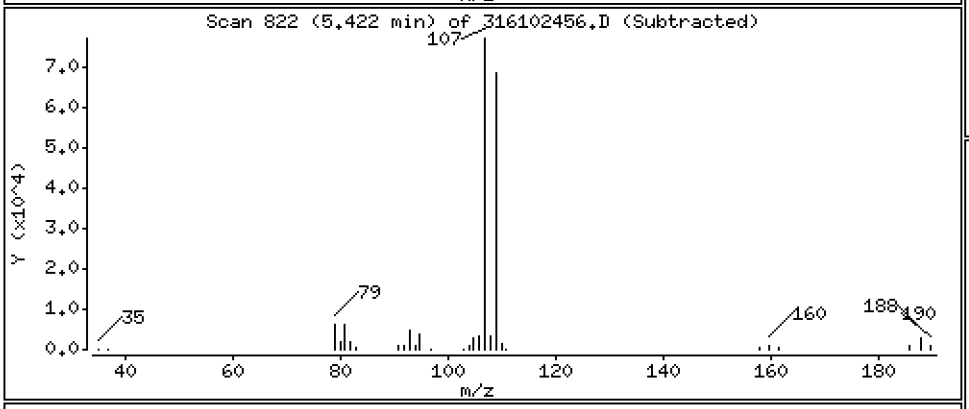
Purge Volume: 5.0 Operator: CJG

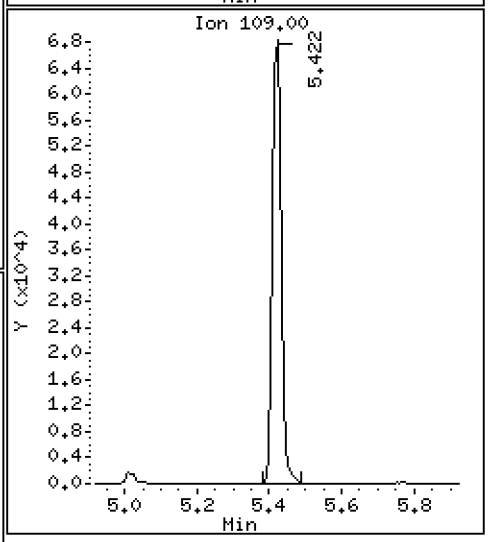
Column phase: DB-VRX Column diameter: 0.25

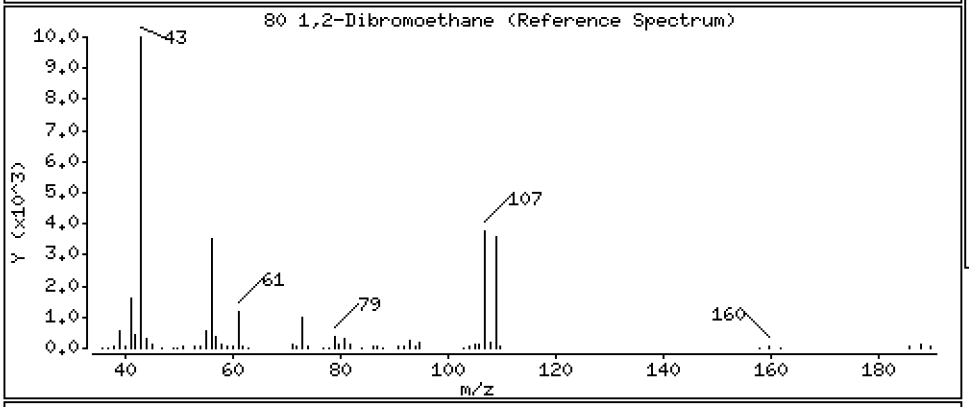
80 1,2-Dibromoethane Concentration: 20.0089 ug/L

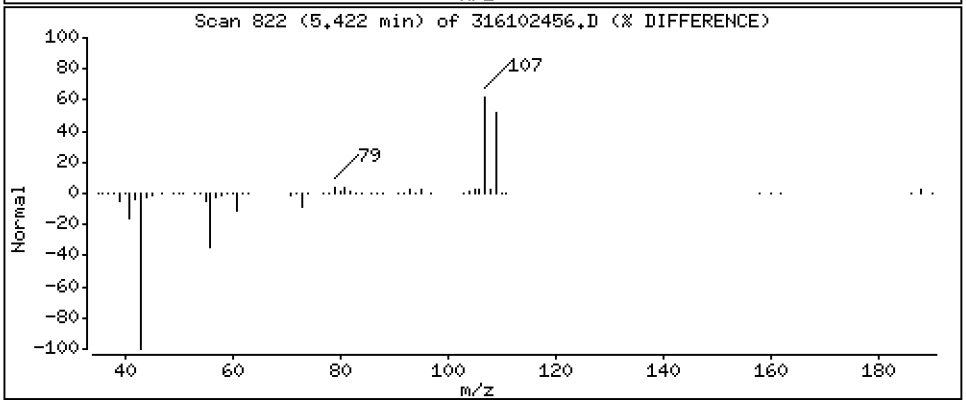












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 85

Date : 25-OCT-2016 00:30

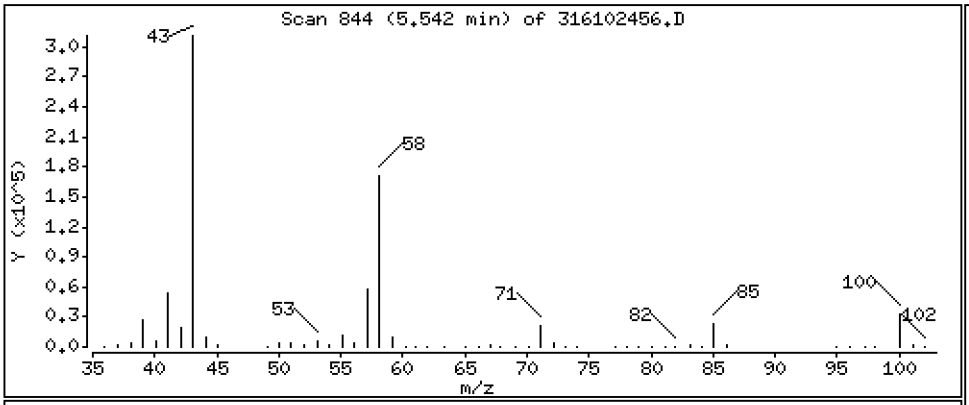
Client ID: Instrument: ms03.i

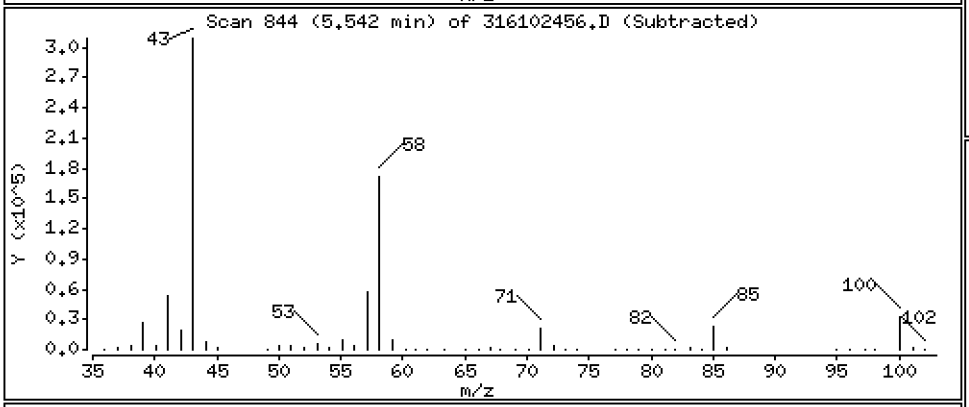
Sample Info: 1236;;1;1;3;;;

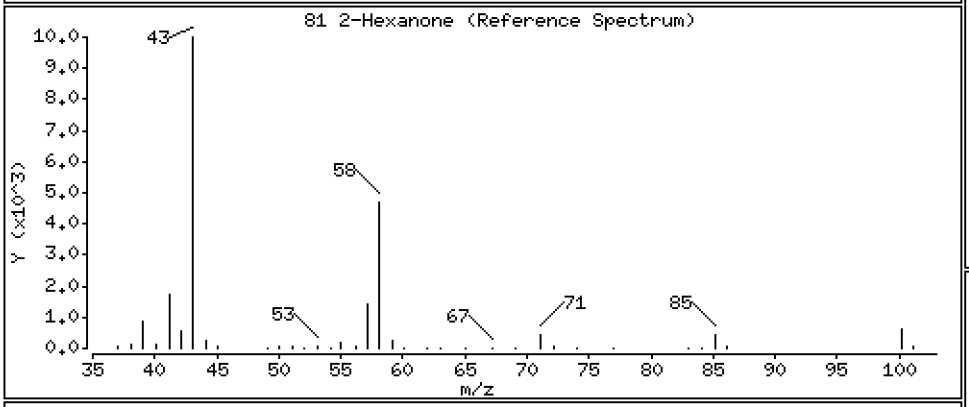
Purge Volume: 5.0 Operator: CJG

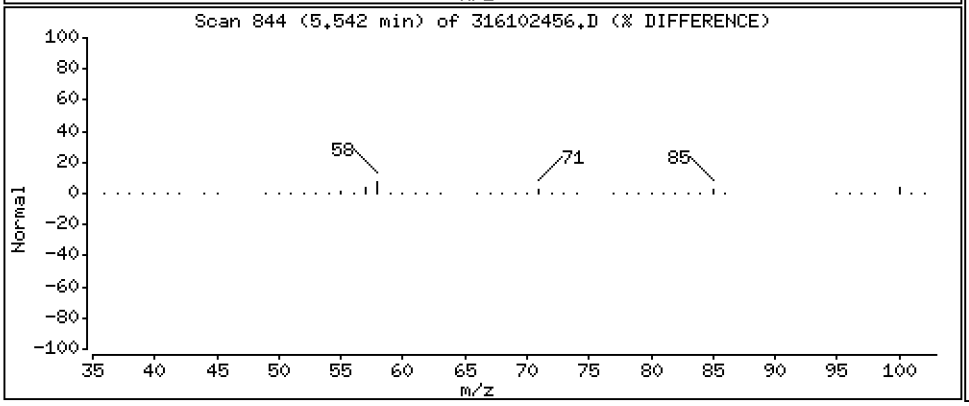
Column phase: DB-VRX Column diameter: 0.25

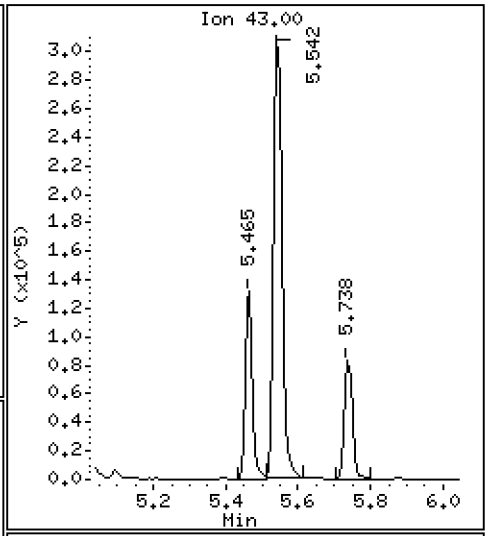
81 2-Hexanone Concentration: 93.0673 ug/L

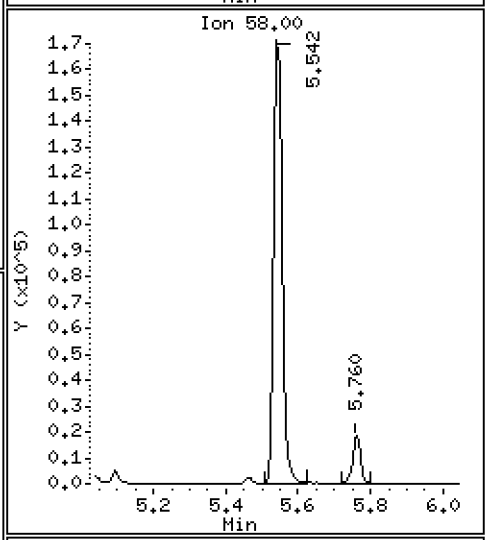


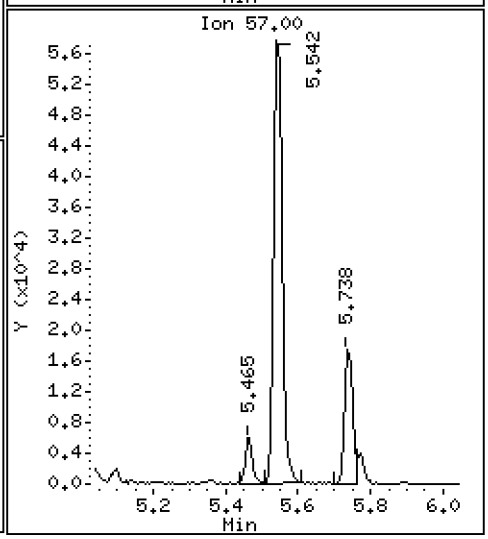












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 86

Date : 25-OCT-2016 00:30

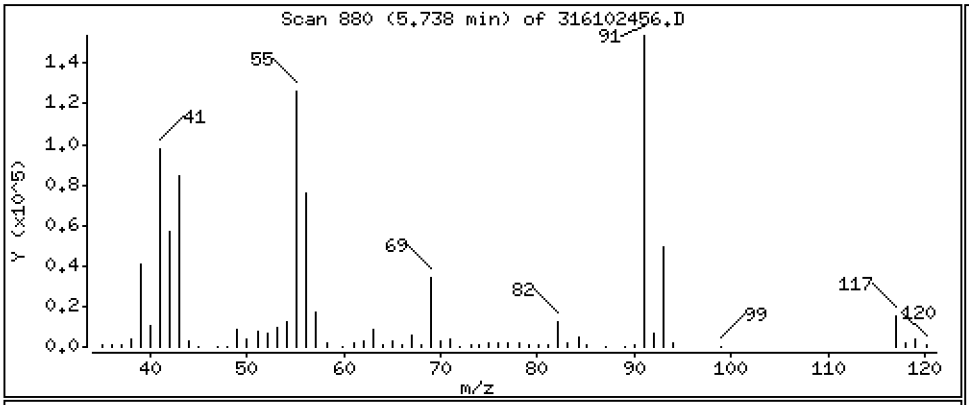
Client ID: Instrument: ms03.i

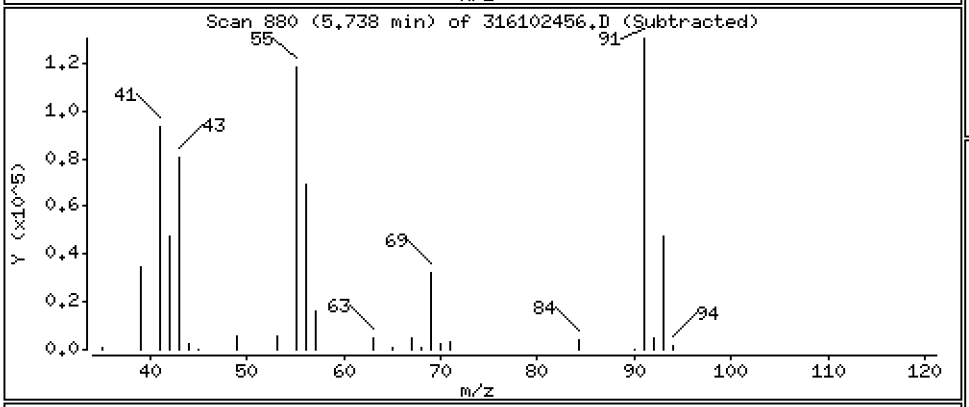
Sample Info: 1236;;1;1;3;;;

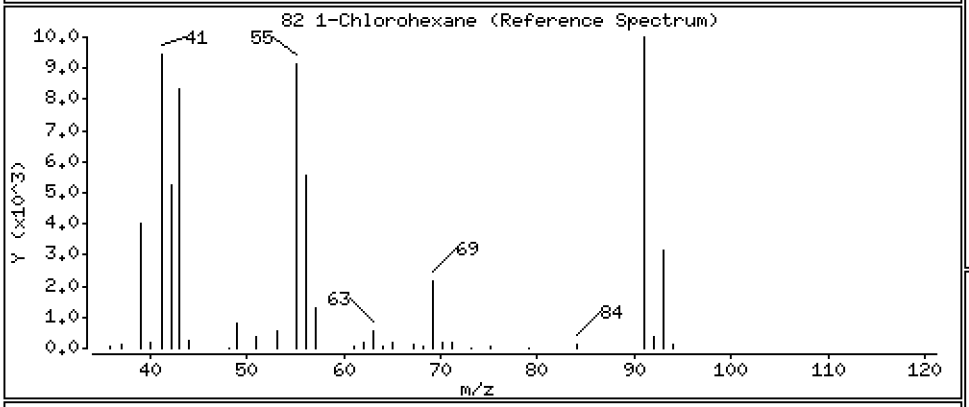
Purge Volume: 5.0 Operator: CJG

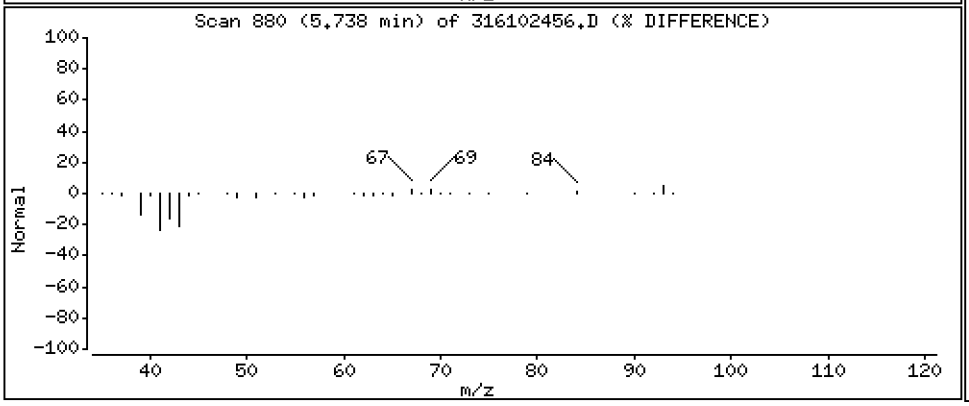
Column phase: DB-VRX Column diameter: 0.25

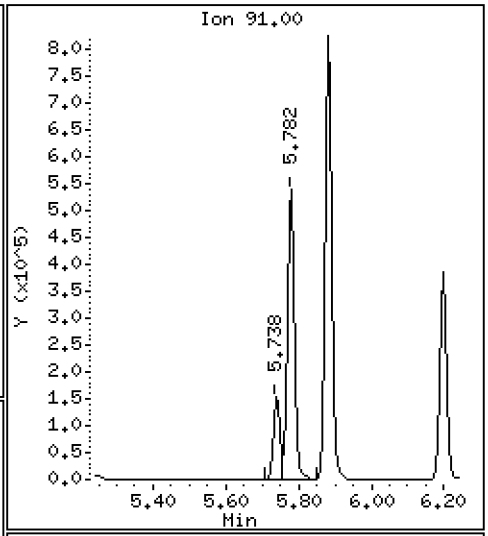
82 1-Chlorohexane Concentration: 20.6714 ug/L

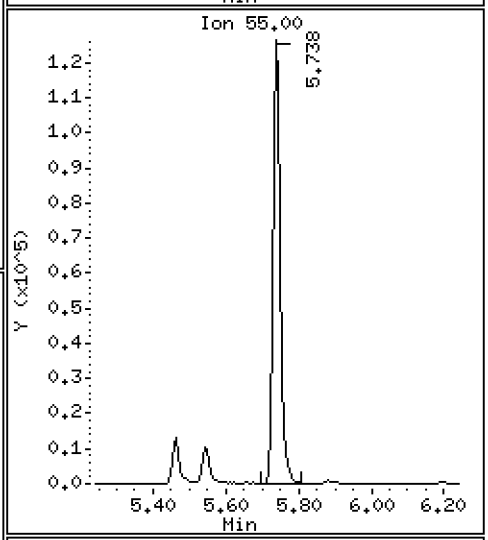


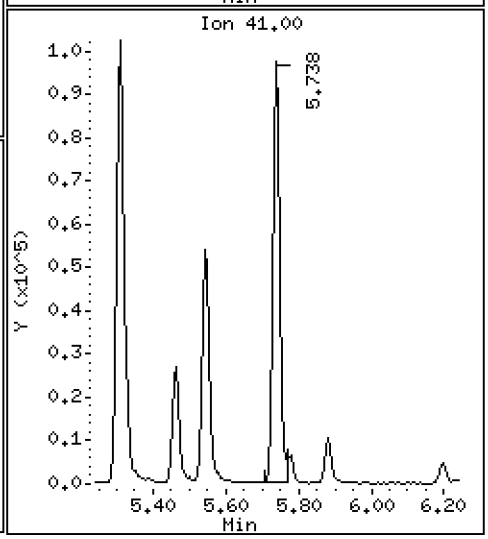












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 87

Date : 25-OCT-2016 00:30

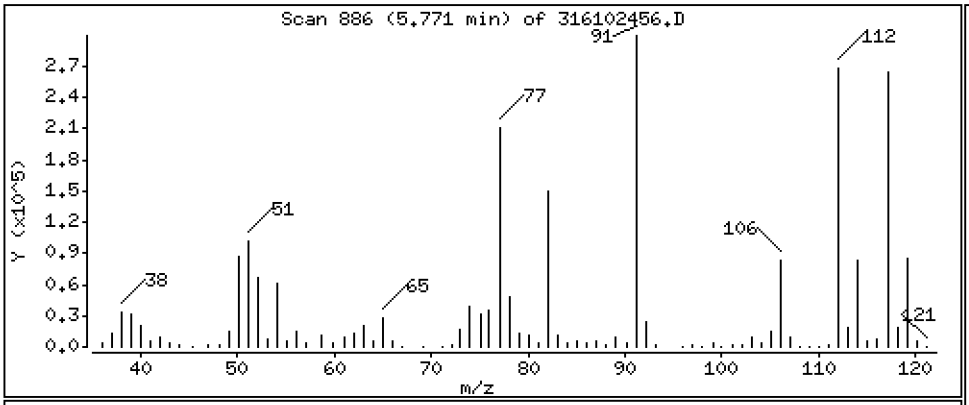
Client ID: Instrument: ms03.i

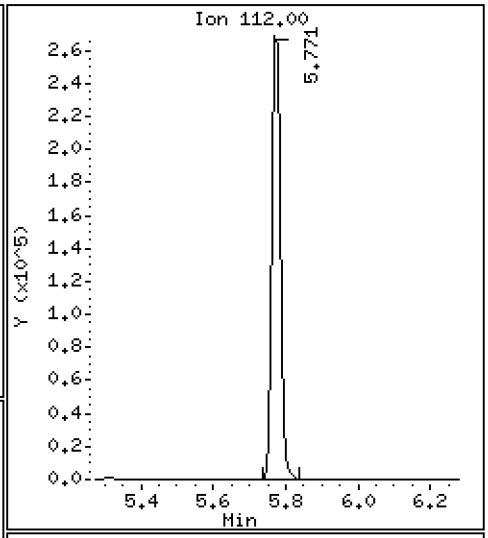
Sample Info: 1236;;1;1;3;;;

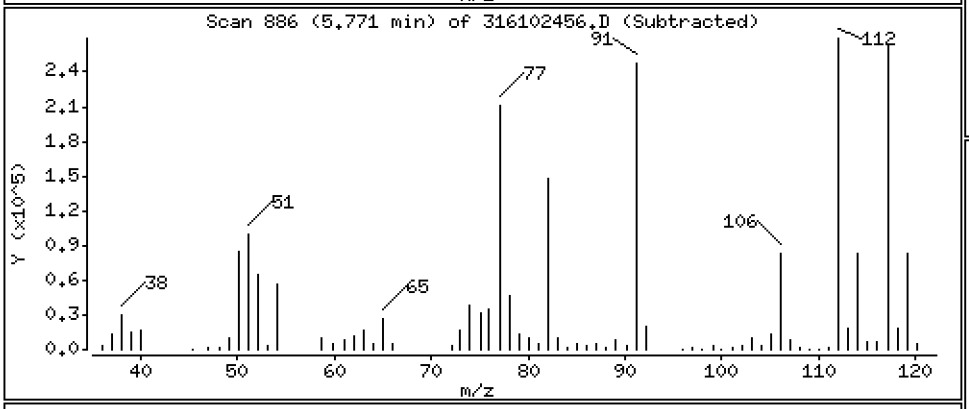
Purge Volume: 5.0 Operator: CJG

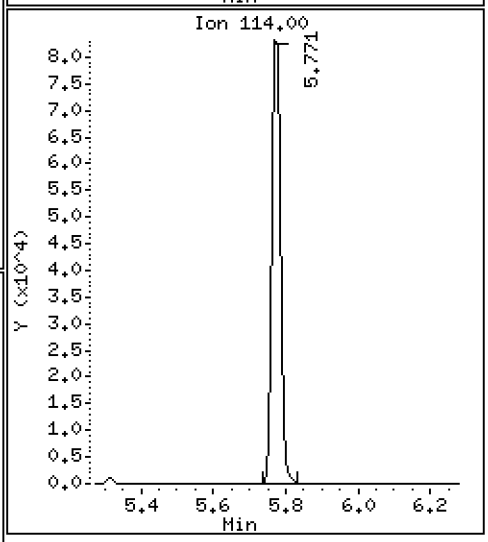
Column phase: DB-VRX Column diameter: 0.25

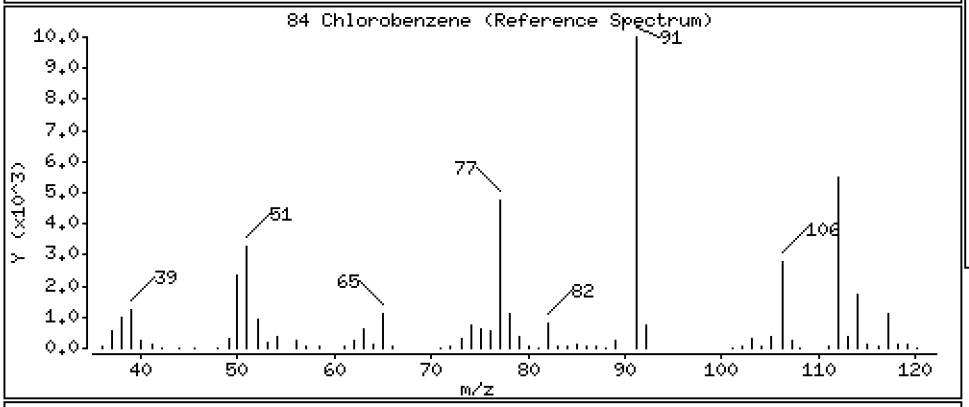
84 Chlorobenzene Concentration: 20.9713 ug/L

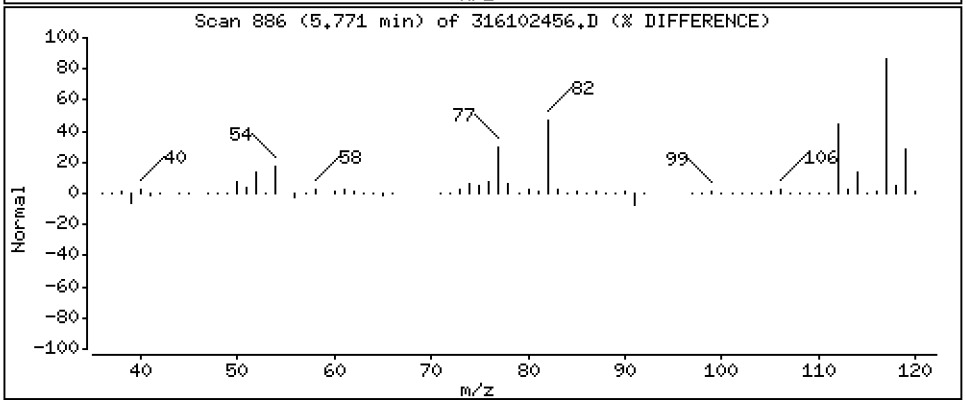












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 88

Date : 25-OCT-2016 00:30

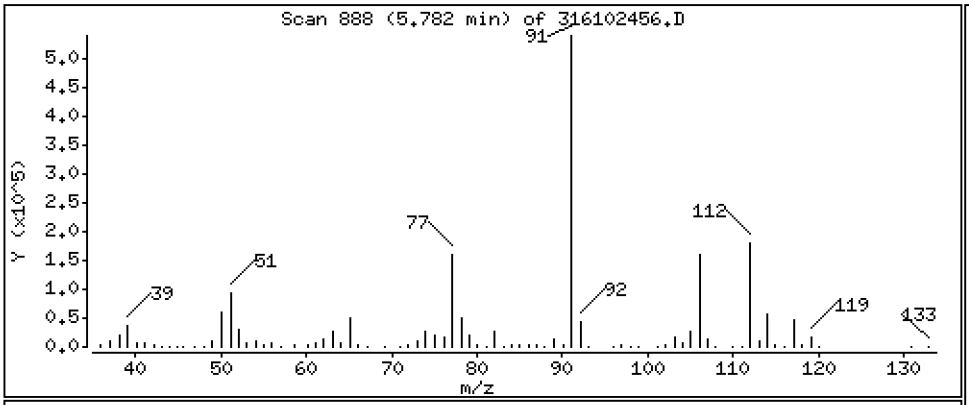
Client ID: Instrument: ms03.i

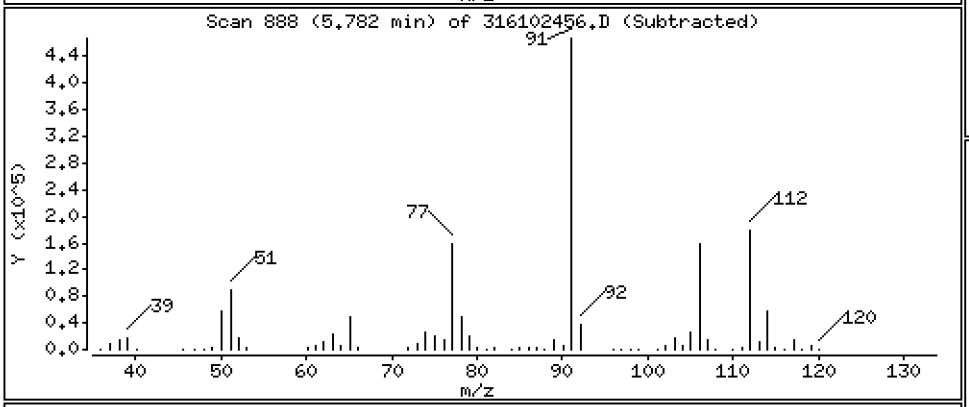
Sample Info: 1236;;1;1;3;;;

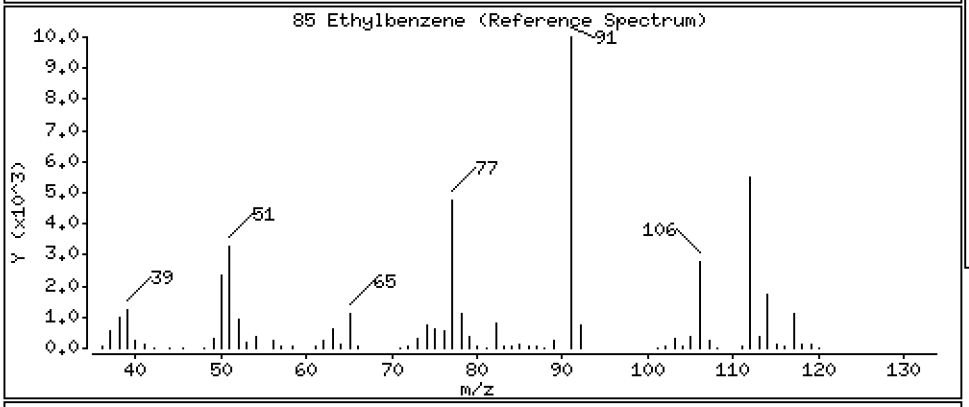
Purge Volume: 5.0 Operator: CJG

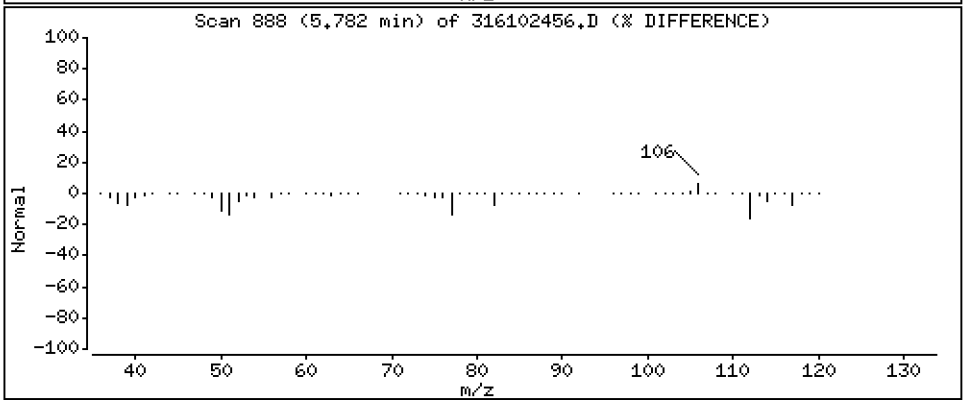
Column phase: DB-VRX Column diameter: 0.25

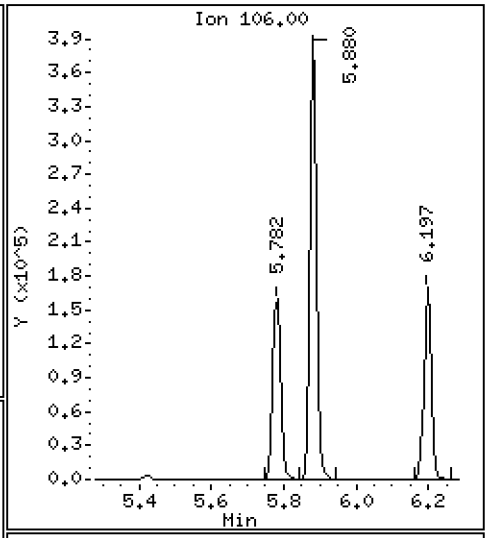
85 Ethylbenzene Concentration: 21.2382 ug/L

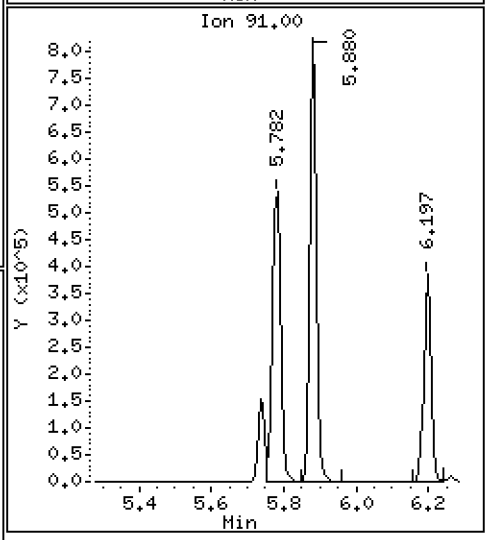












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 89

Date : 25-OCT-2016 00:30

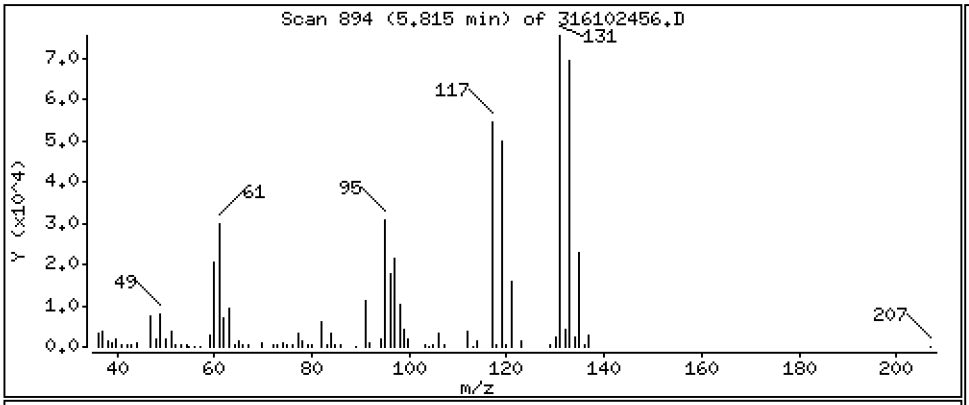
Client ID: Instrument: ms03.i

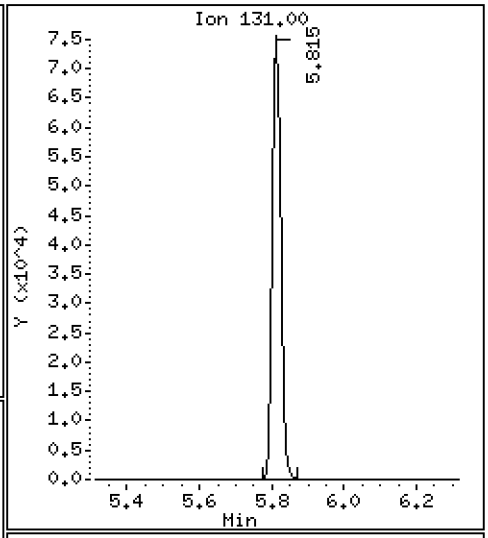
Sample Info: 1236;;1;1;3;;;

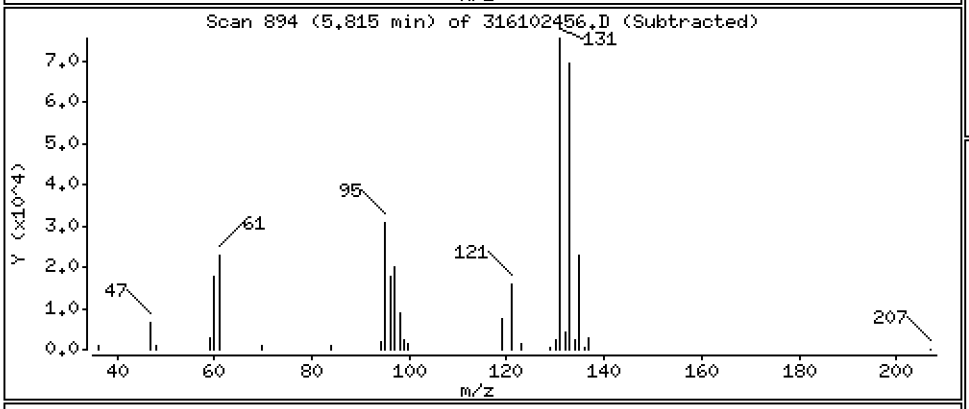
Purge Volume: 5.0 Operator: CJG

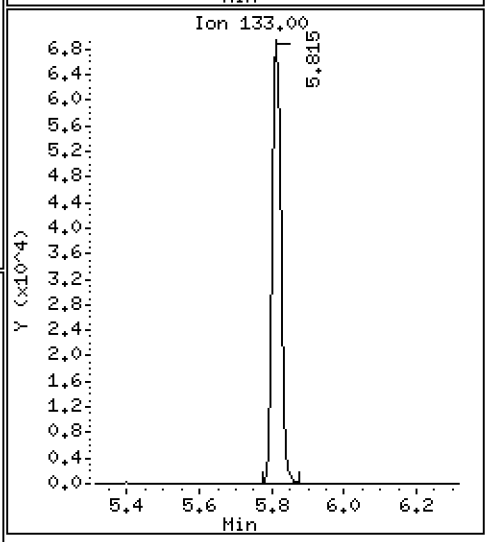
Column phase: DB-VRX Column diameter: 0.25

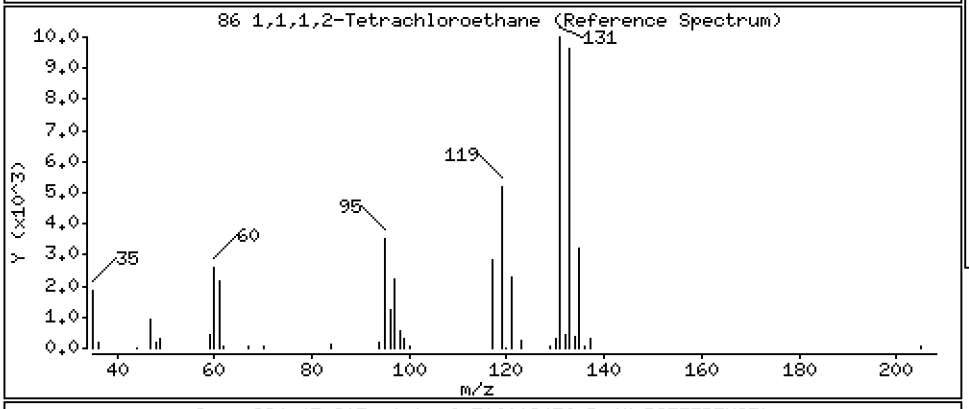
86 1,1,1,2-Tetrachloroethane Concentration: 19.8611 ug/L

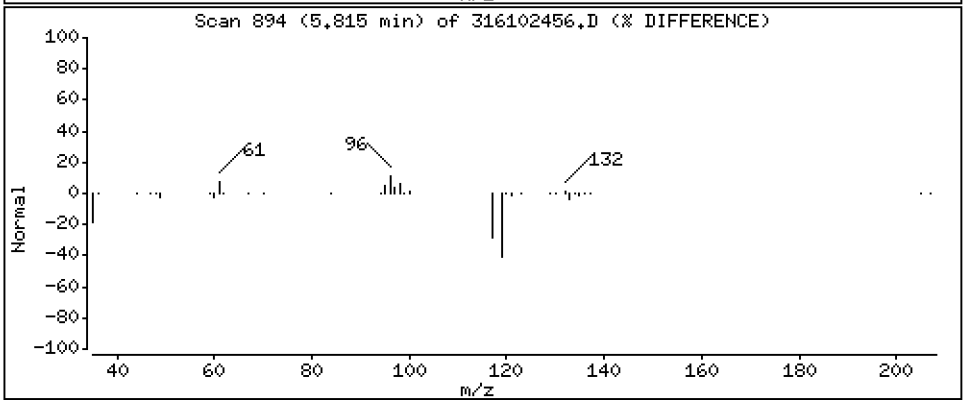












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 90

Date : 25-OCT-2016 00:30

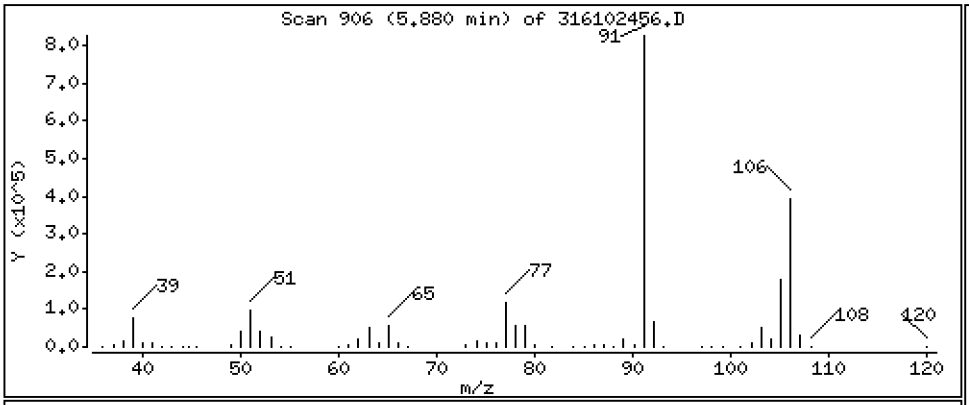
Client ID: Instrument: ms03.i

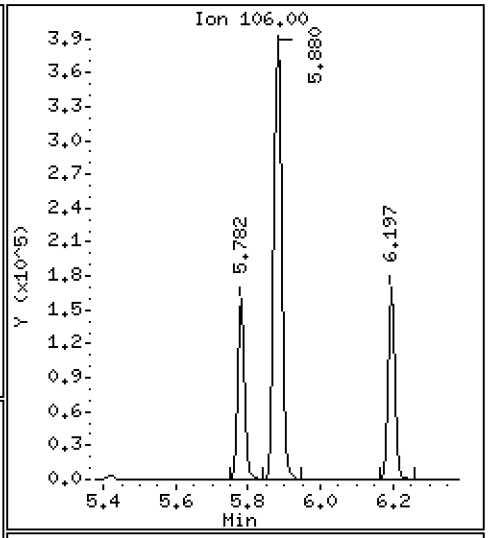
Sample Info: 1236;;1;1;3;;;

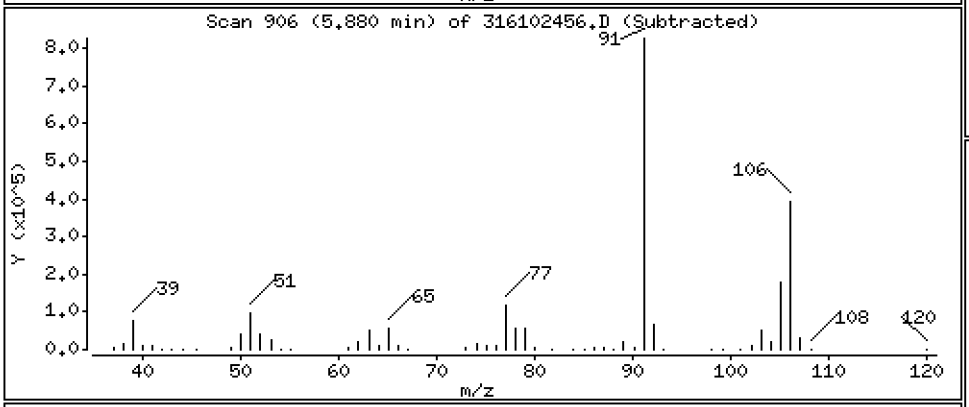
Purge Volume: 5.0 Operator: CJG

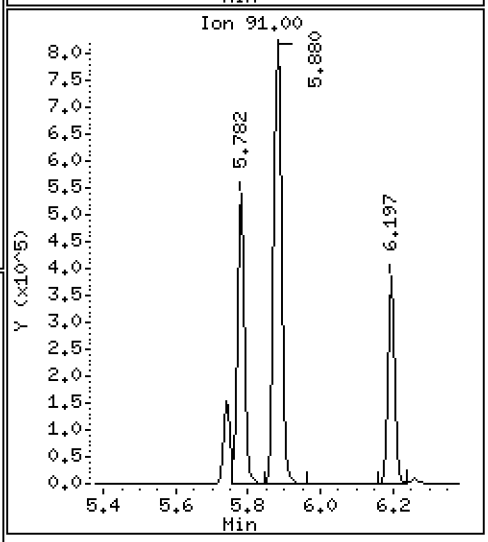
Column phase: DB-VRX Column diameter: 0.25

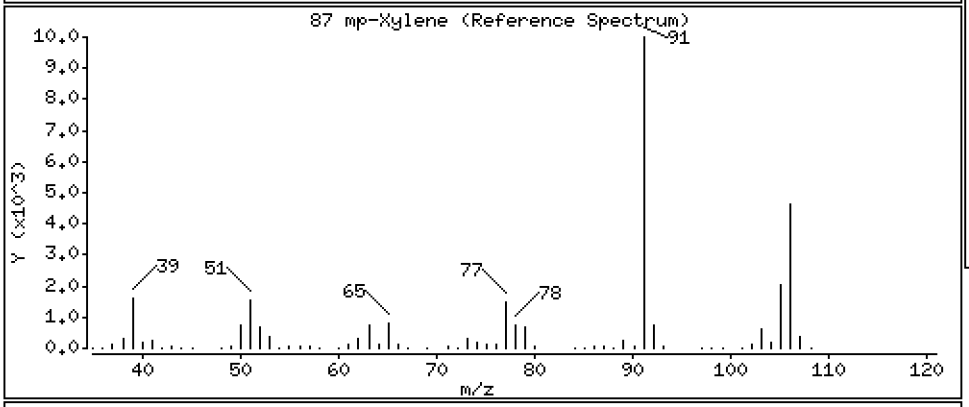
87 mp-Xylene Concentration: 41.9676 ug/L

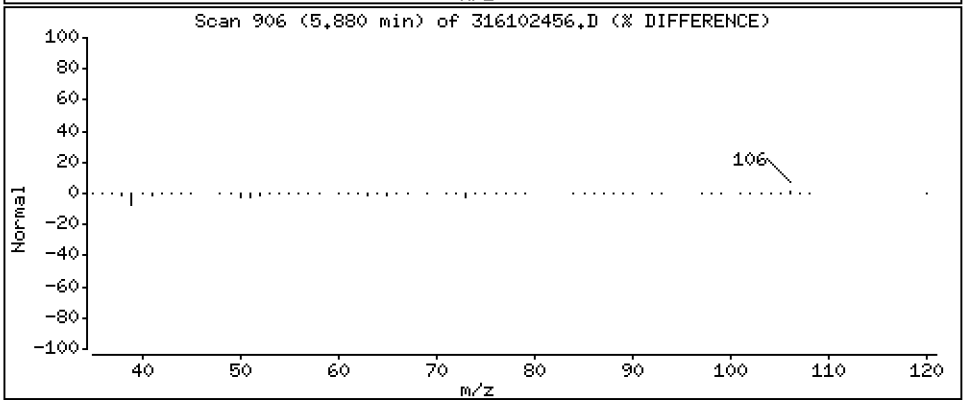












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 91

Date : 25-OCT-2016 00:30

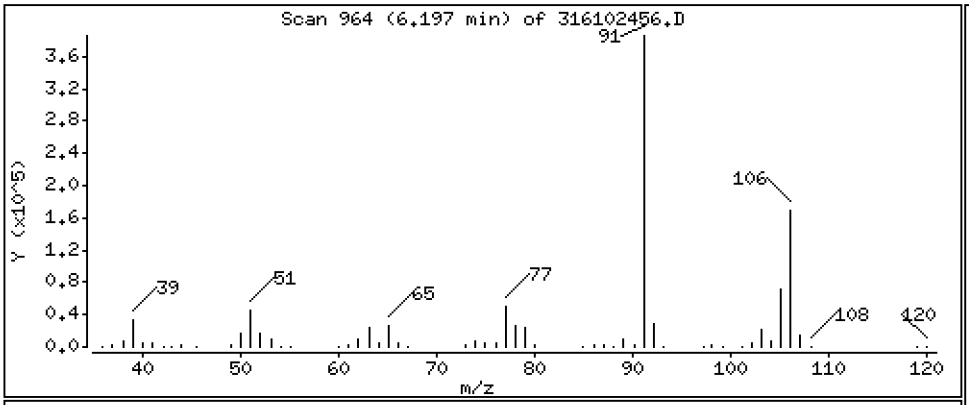
Client ID: Instrument: ms03.i

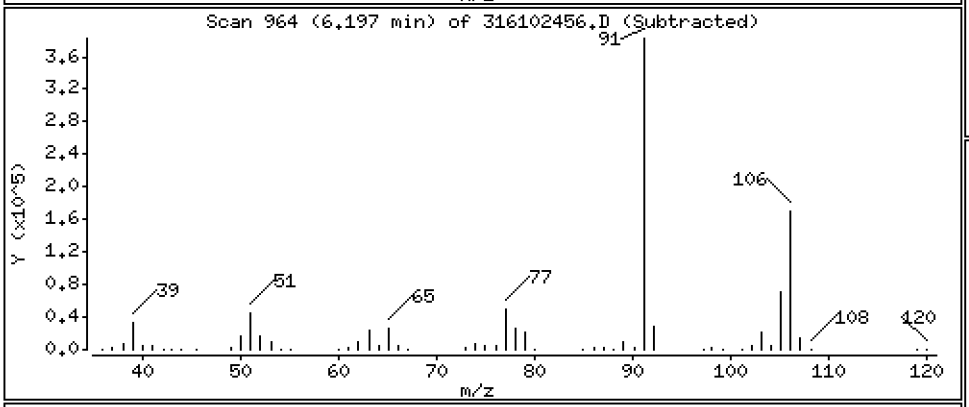
Sample Info: 1236;;1;1;3;;;

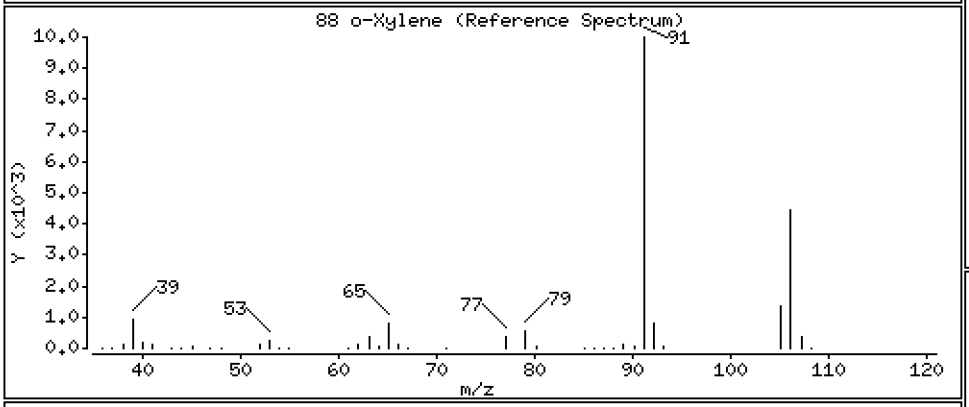
Purge Volume: 5.0 Operator: CJG

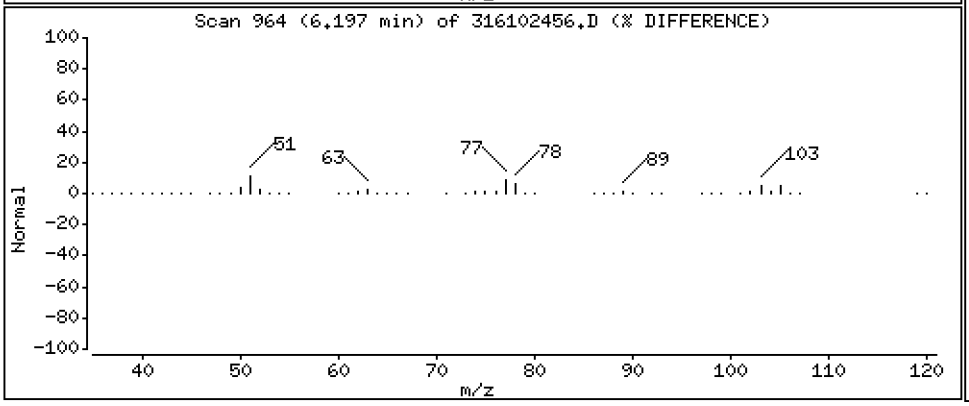
Column phase: DB-VRX Column diameter: 0.25

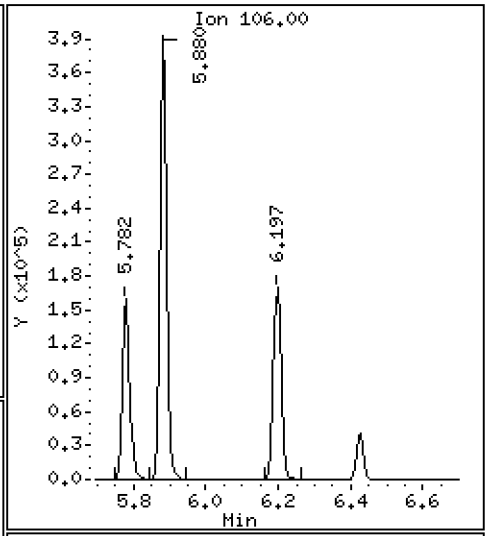
88 o-Xylene Concentration: 19.7110 ug/L

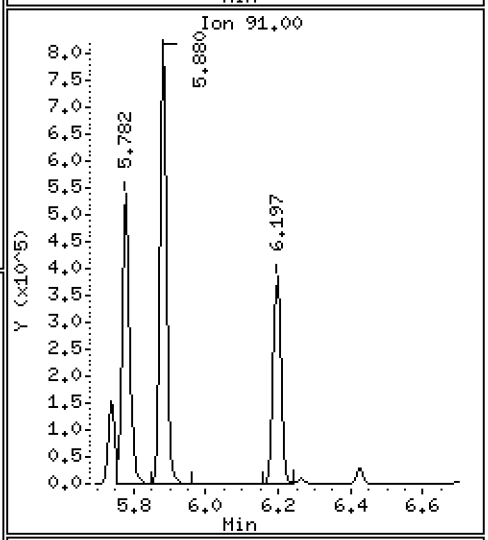


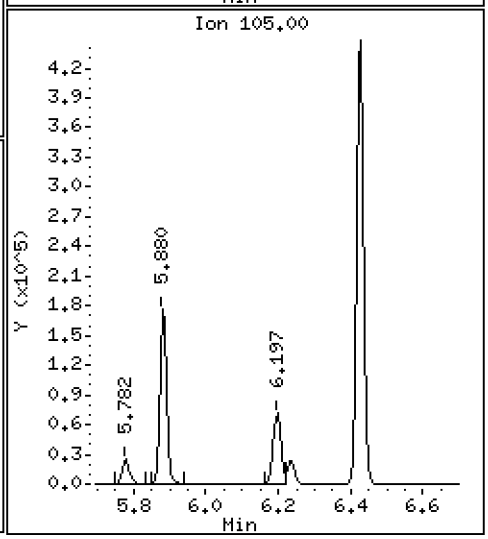












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 92

Date : 25-OCT-2016 00:30

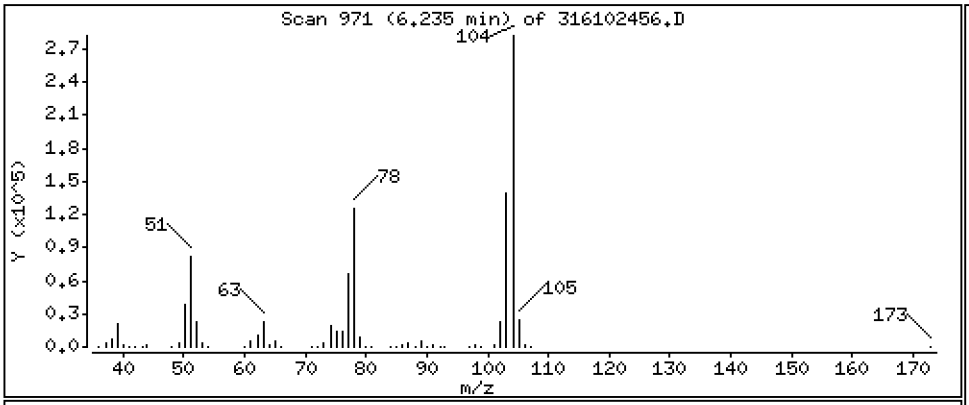
Client ID: Instrument: ms03.i

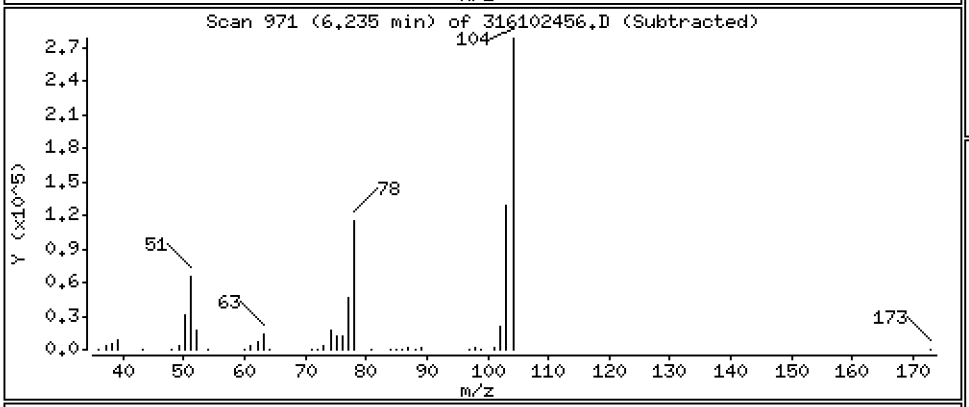
Sample Info: 1236;;1;1;3;;;

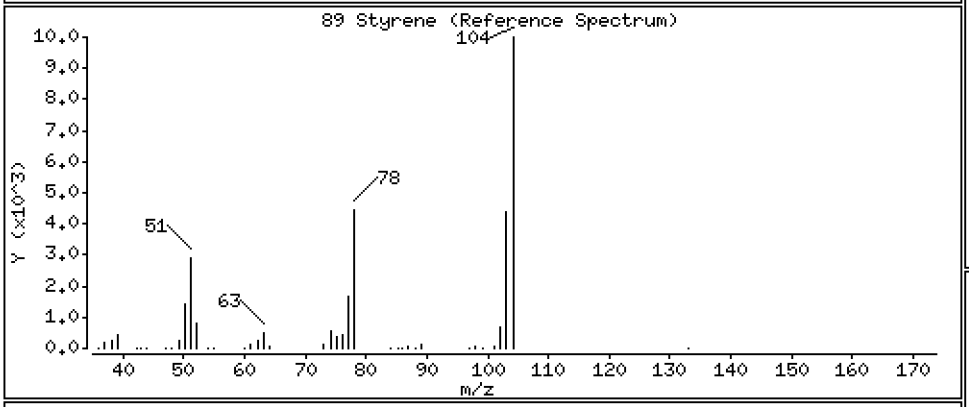
Purge Volume: 5.0 Operator: CJG

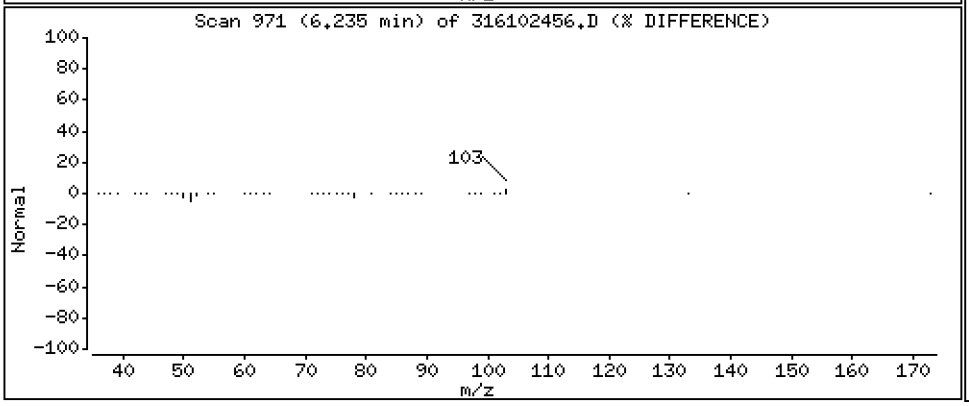
Column phase: DB-VRX Column diameter: 0.25

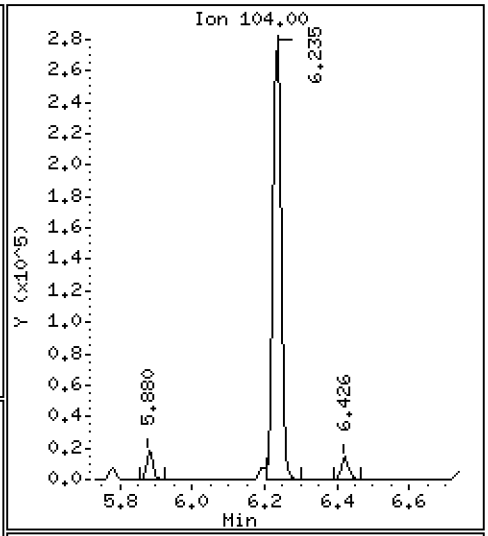
89 Styrene Concentration: 20.1189 ug/L

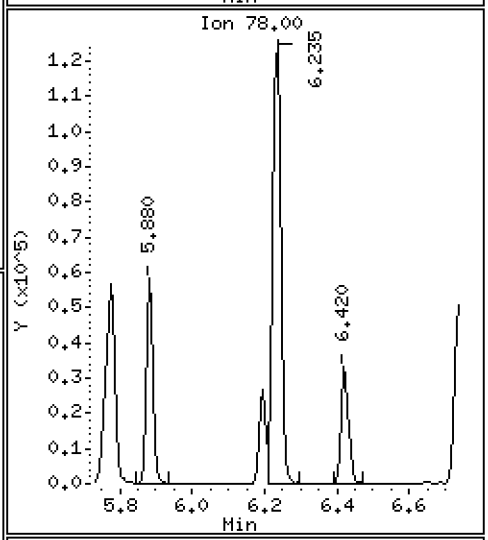


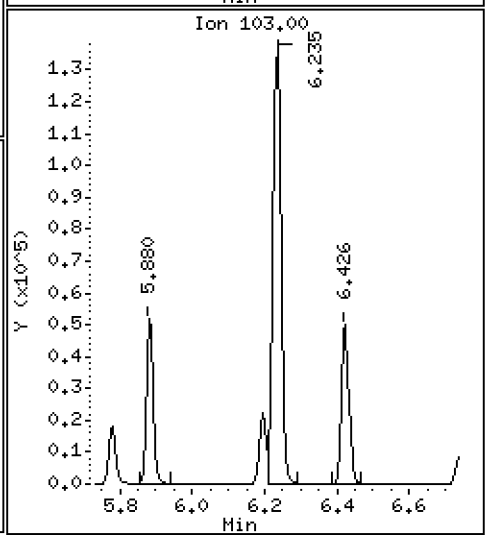












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 93

Date : 25-OCT-2016 00:30

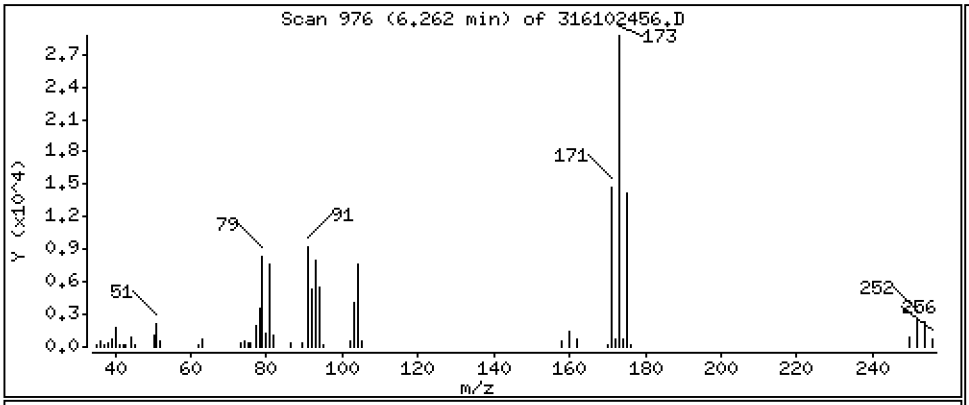
Client ID: Instrument: ms03.i

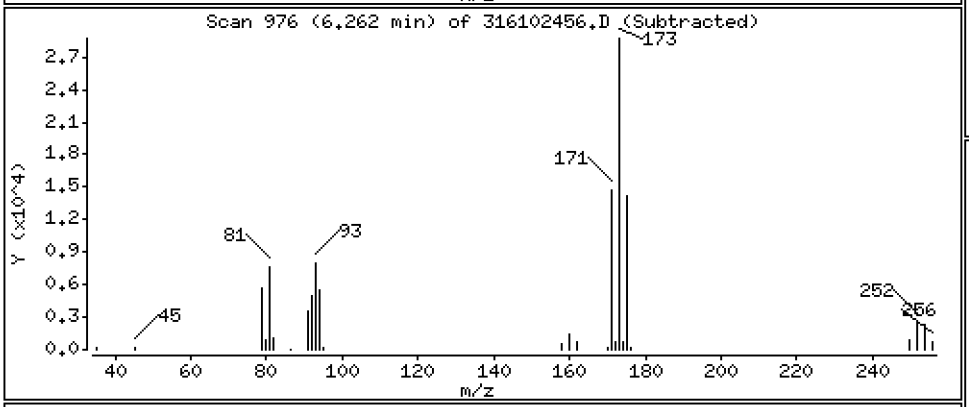
Sample Info: 1236;;1;1;3;;;

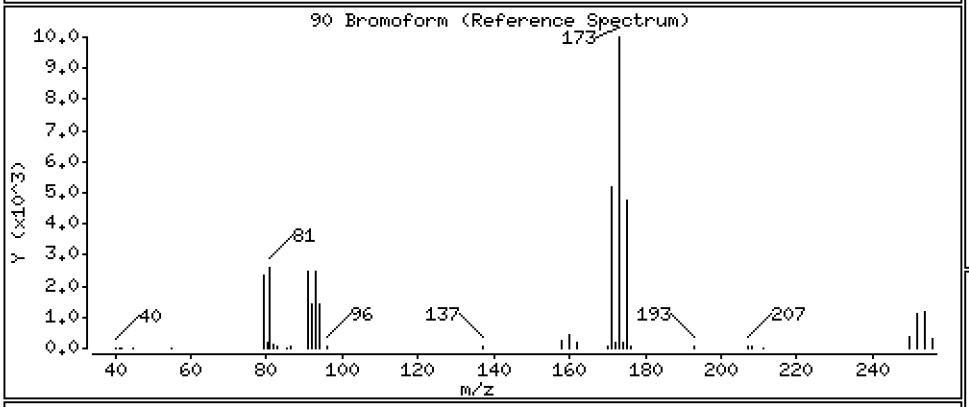
Purge Volume: 5.0 Operator: CJG

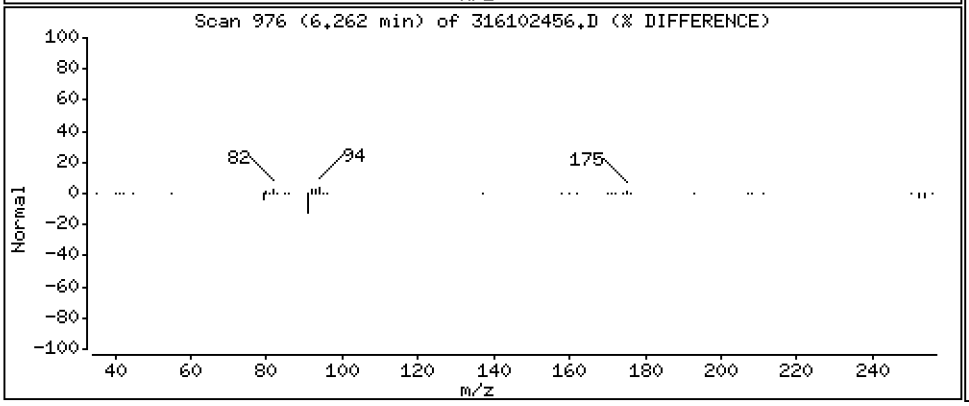
Column phase: DB-VRX Column diameter: 0.25

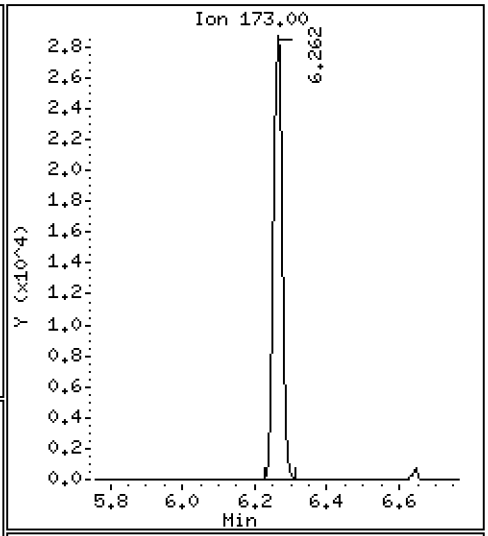
90 Bromoform Concentration: 18.1111 ug/L

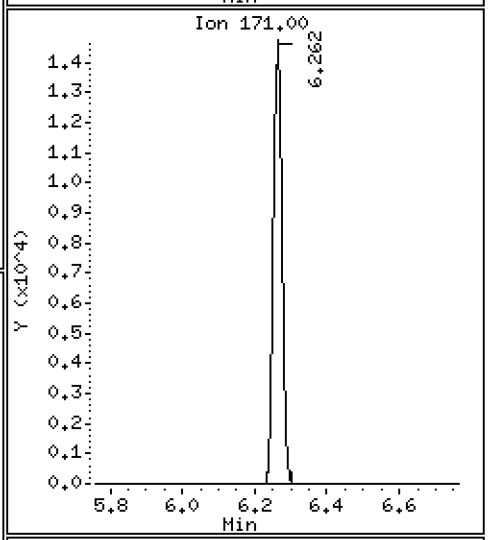


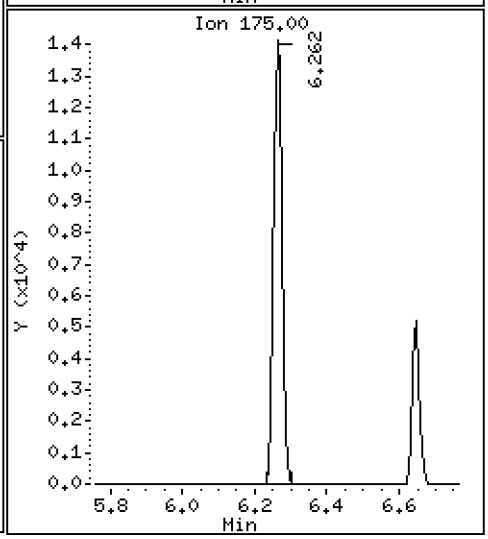












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 94

Date : 25-OCT-2016 00:30

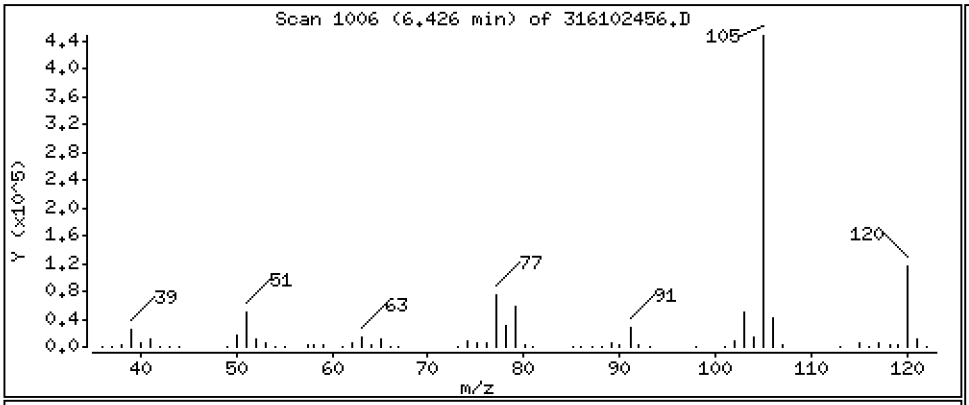
Client ID: Instrument: ms03.i

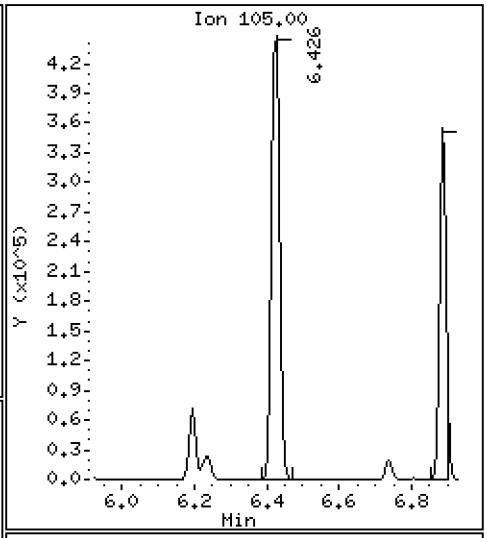
Sample Info: 1236;;1;1;3;;;

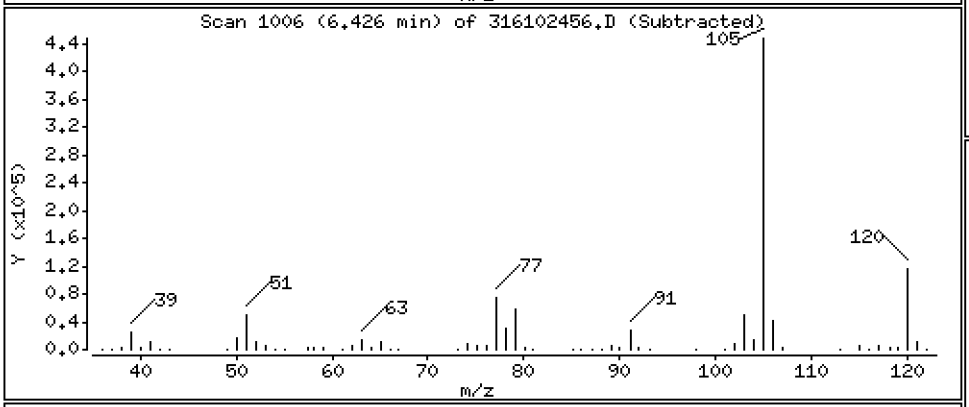
Purge Volume: 5.0 Operator: CJG

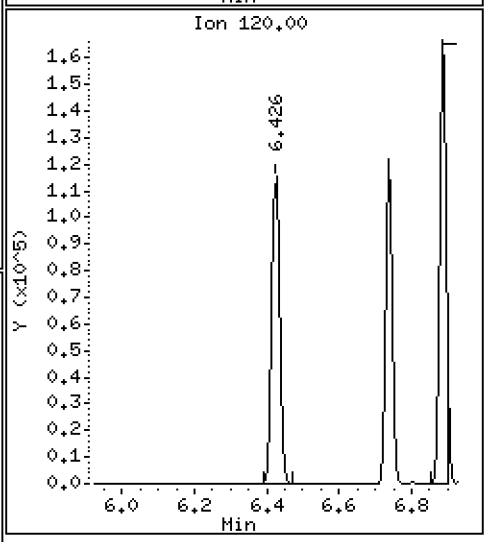
Column phase: DB-VRX Column diameter: 0.25

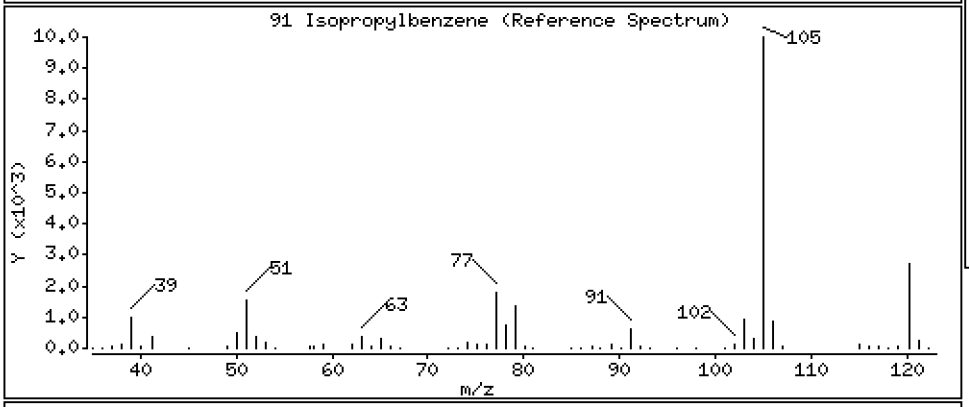
91 Isopropylbenzene Concentration: 21.1345 ug/L

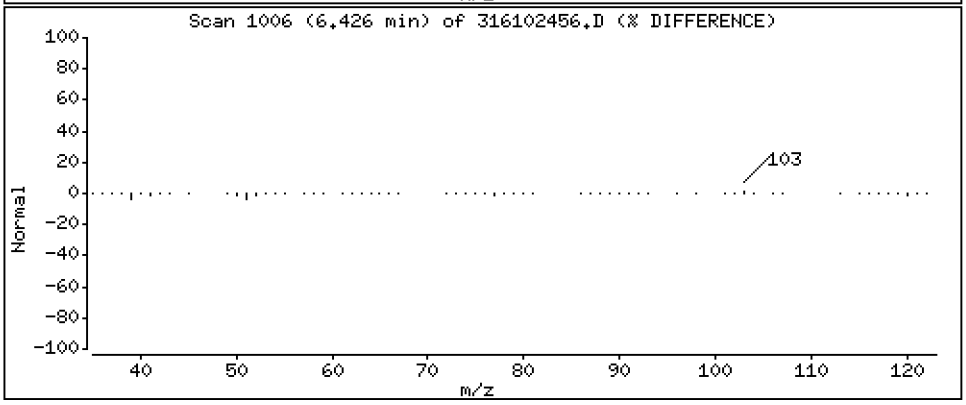












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 95

Date : 25-OCT-2016 00:30

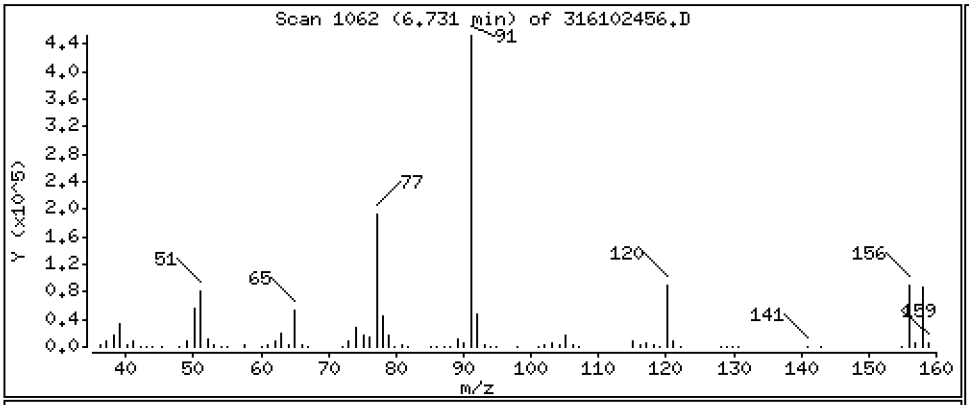
Client ID: Instrument: ms03.i

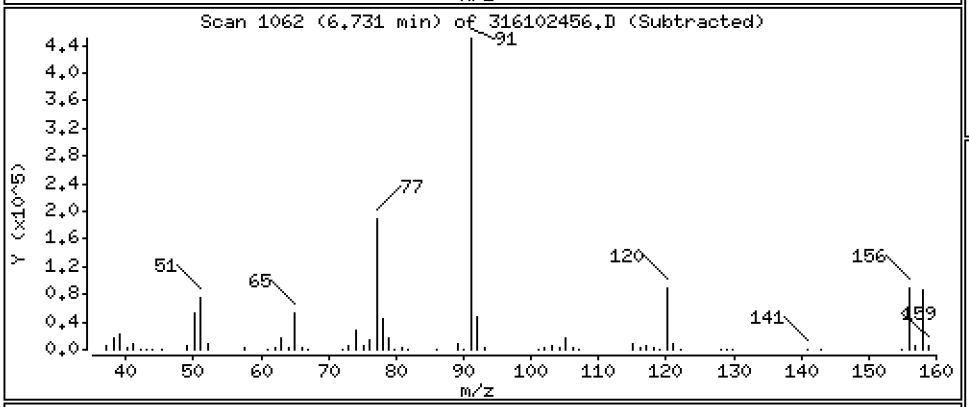
Sample Info: 1236;;1;1;3;;;

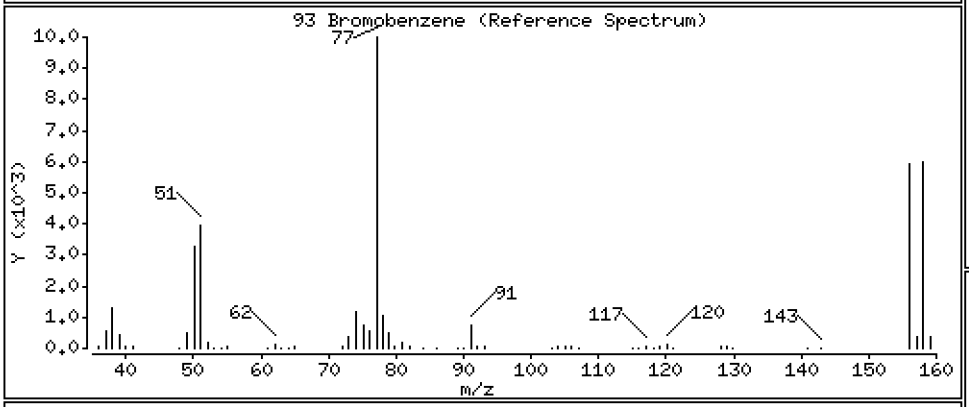
Purge Volume: 5.0 Operator: CJG

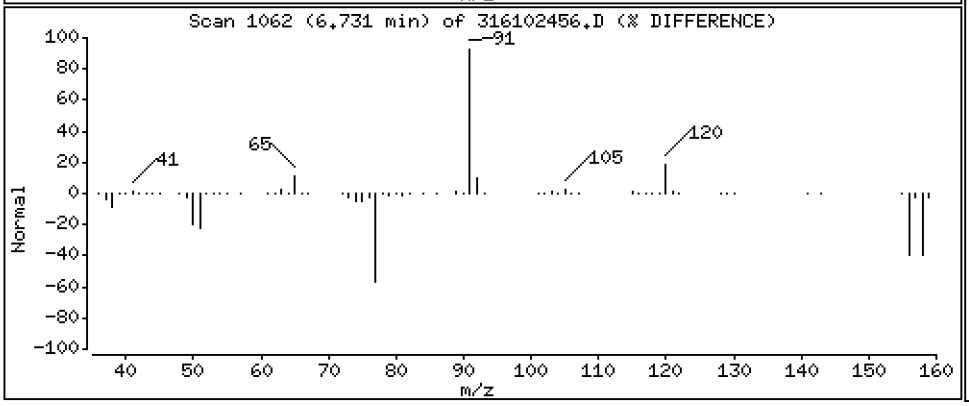
Column phase: DB-VRX Column diameter: 0.25

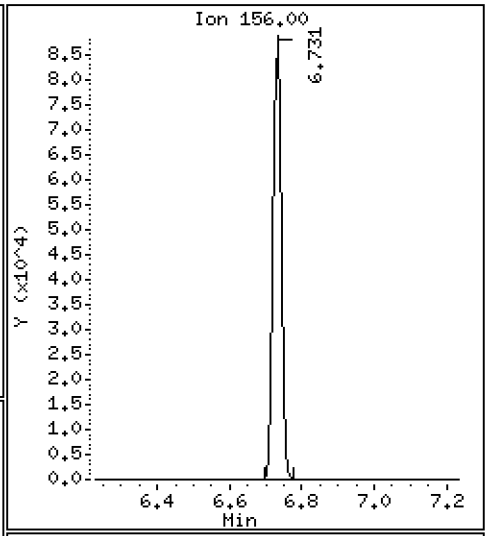
93 Bromobenzene Concentration: 20.7845 ug/L

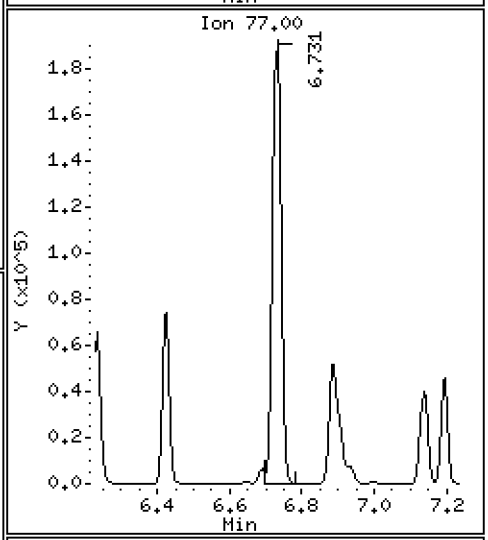


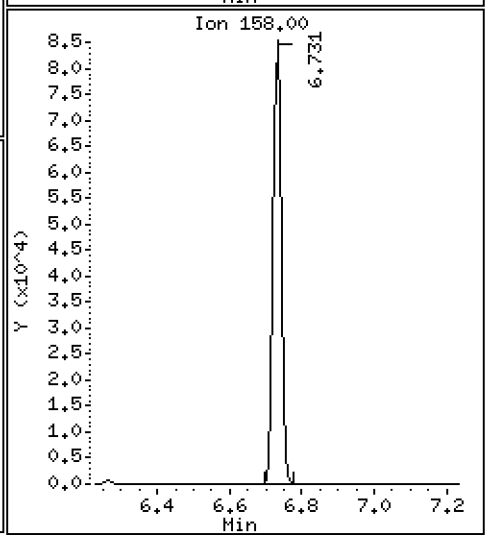












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 96

Date : 25-OCT-2016 00:30

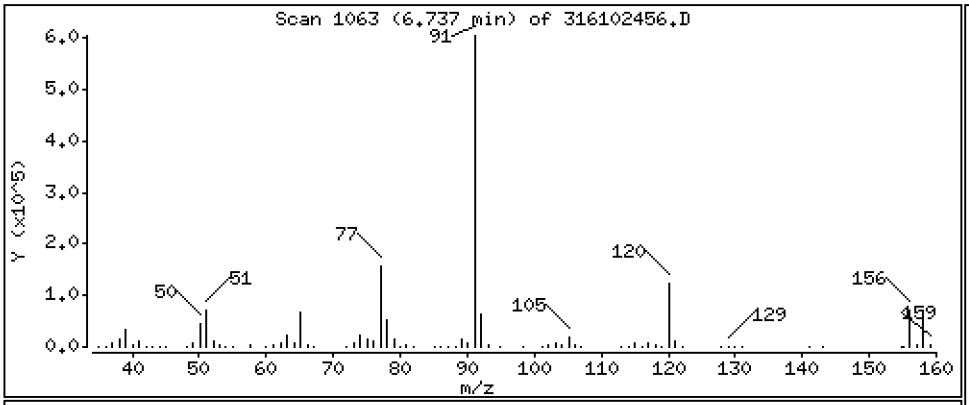
Client ID: Instrument: ms03.i

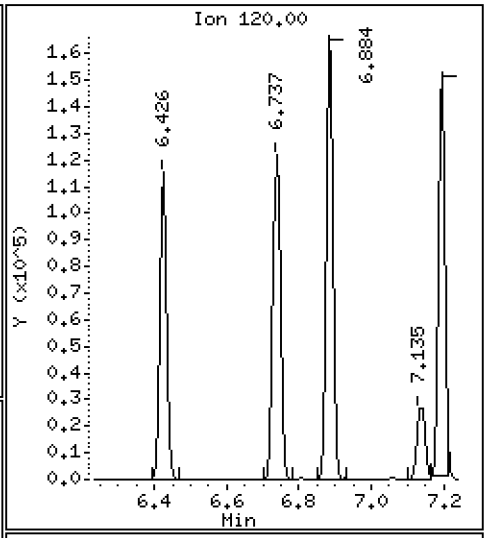
Sample Info: 1236;;1;1;3;;;

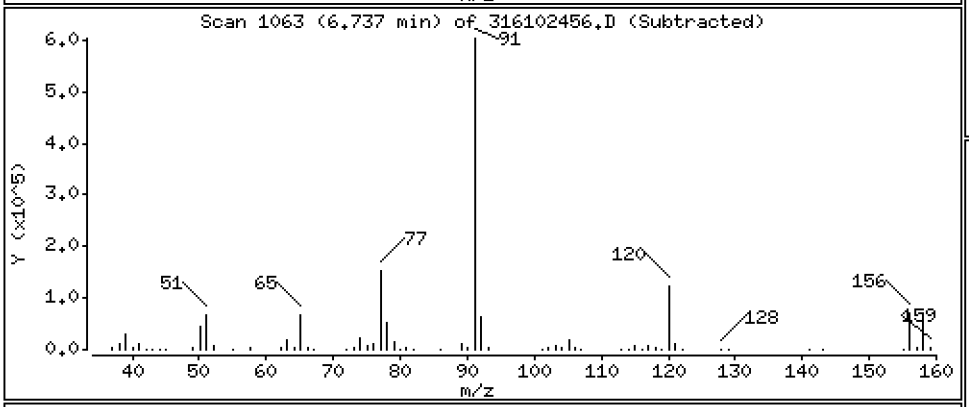
Purge Volume: 5.0 Operator: CJG

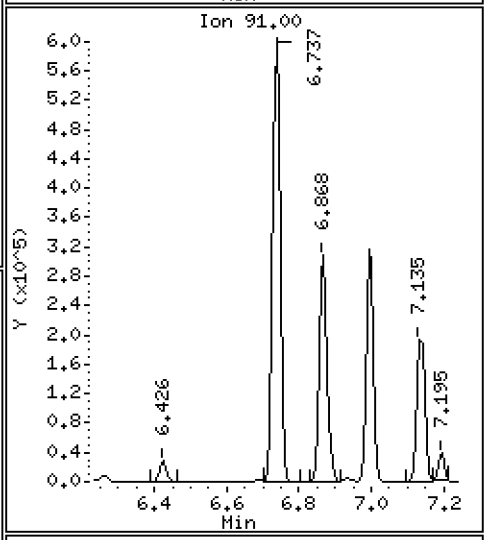
Column phase: DB-VRX Column diameter: 0.25

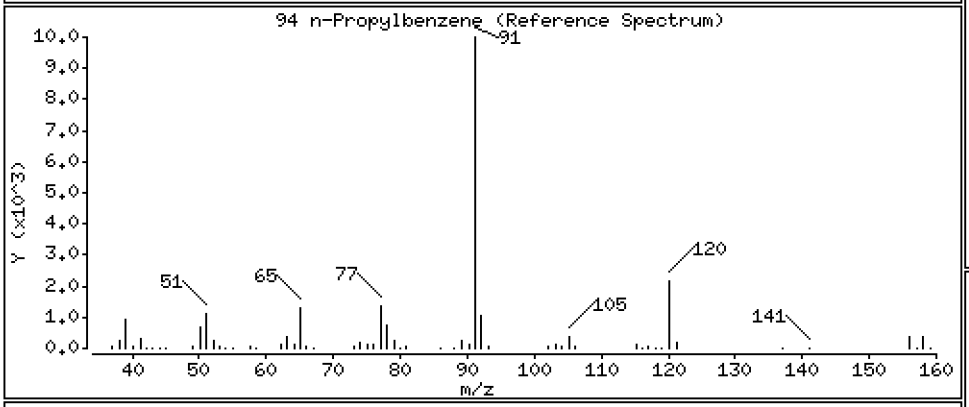
94 n-Propylbenzene Concentration: 21.3643 ug/L

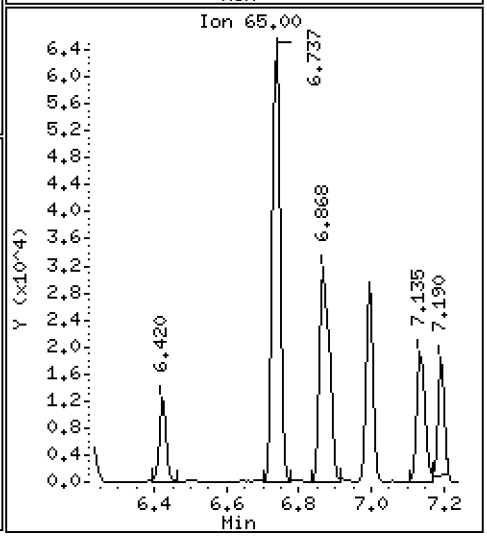


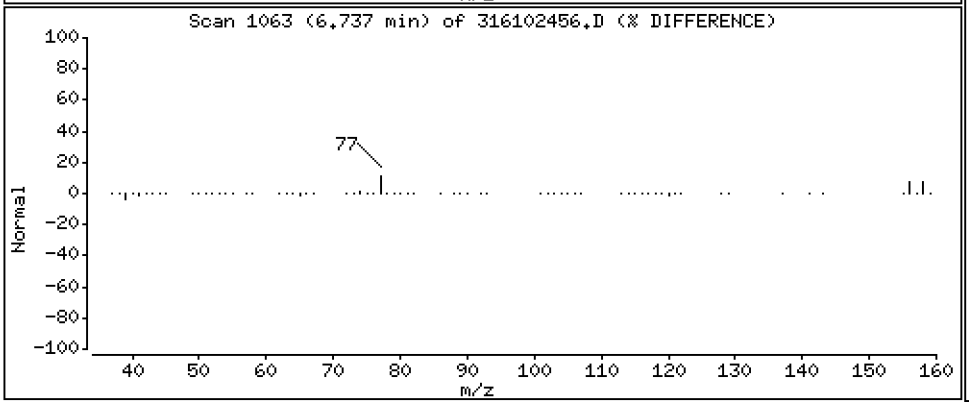












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 97

Date : 25-OCT-2016 00:30

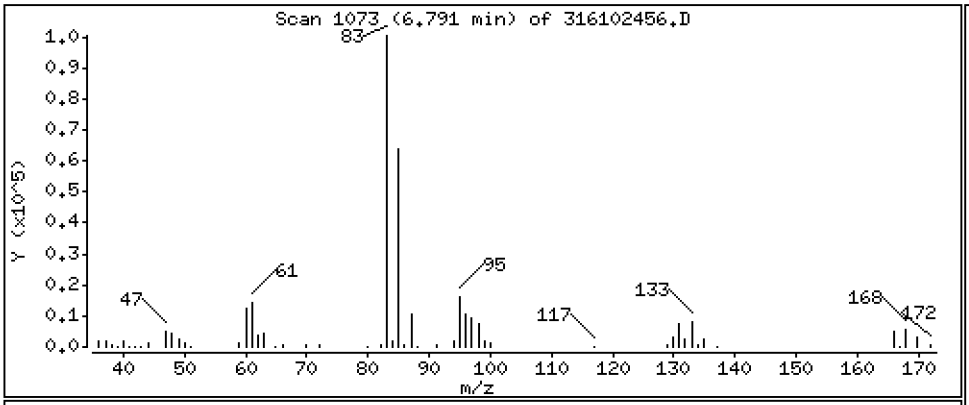
Client ID: Instrument: ms03.i

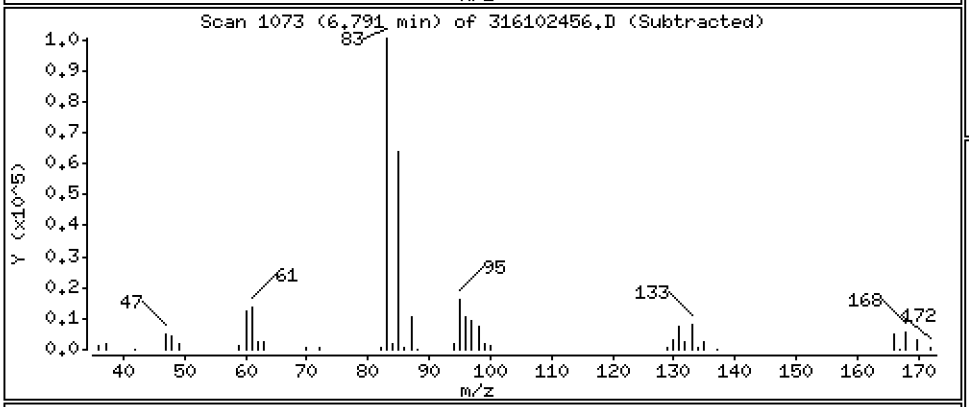
Sample Info: 1236;;1;1;3;;;

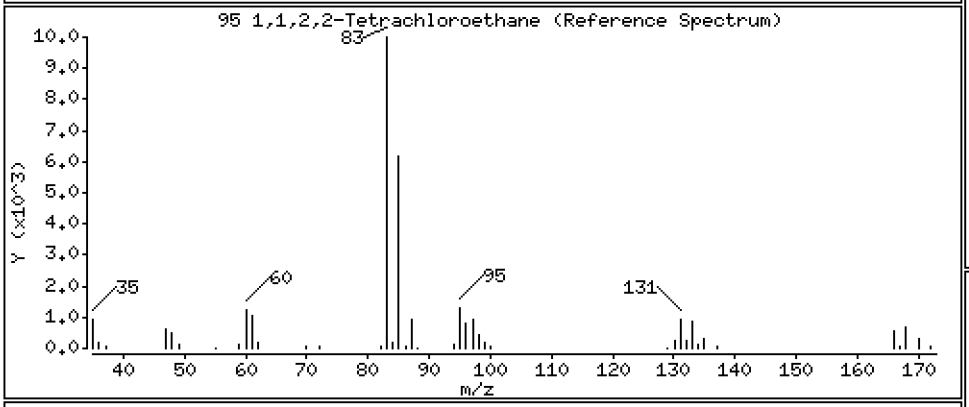
Purge Volume: 5.0 Operator: CJG

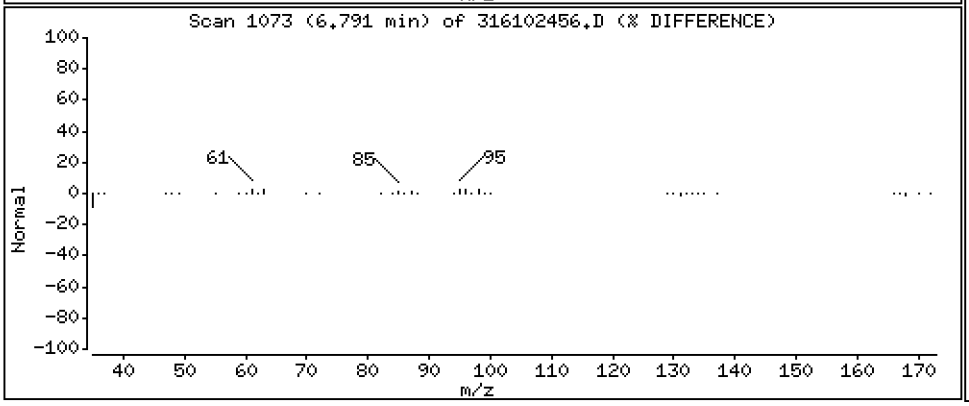
Column phase: DB-VRX Column diameter: 0.25

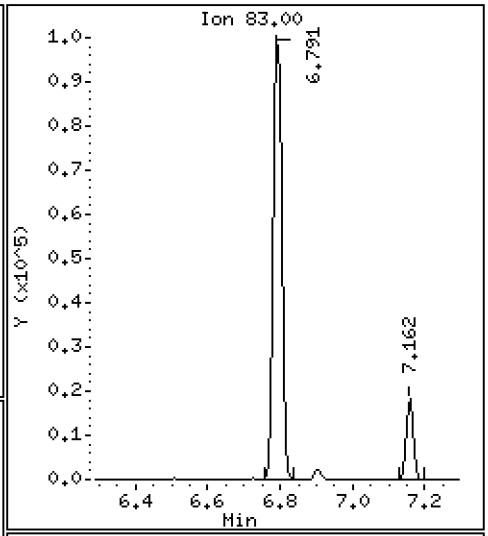
95 1,1,2,2-Tetrachloroethane Concentration: 20.3832 ug/L

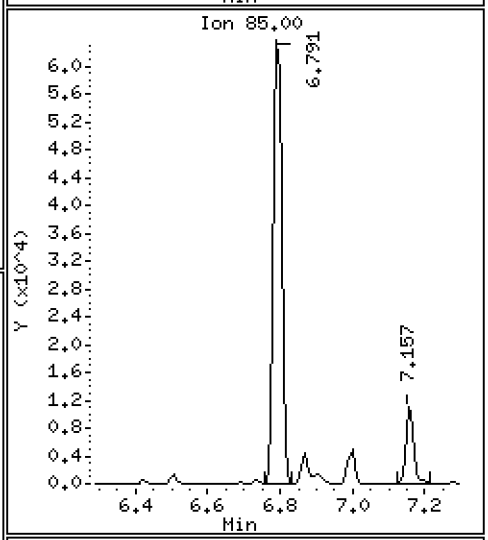


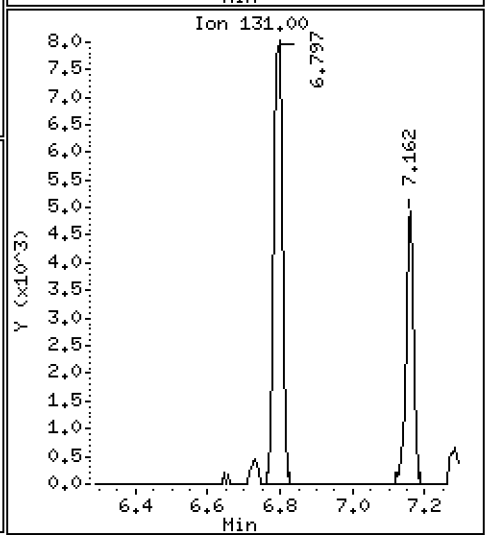












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 98

Date : 25-OCT-2016 00:30

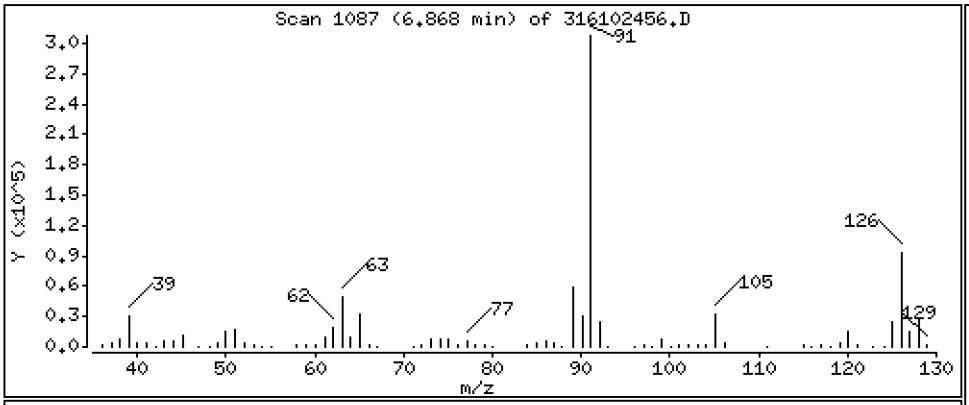
Client ID: Instrument: ms03.i

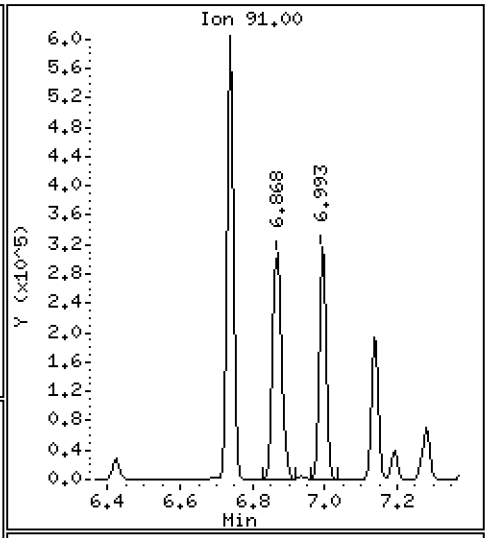
Sample Info: 1236;;1;1;3;;;

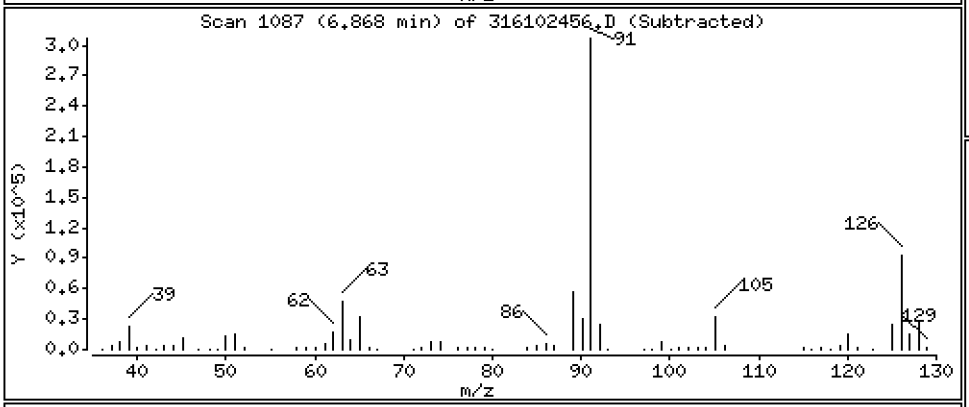
Purge Volume: 5.0 Operator: CJG

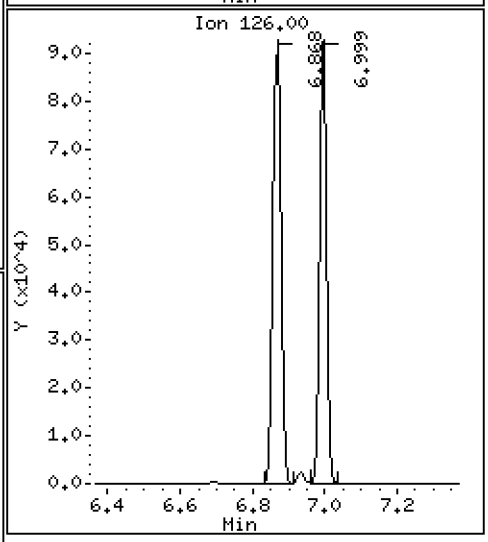
Column phase: DB-VRX Column diameter: 0.25

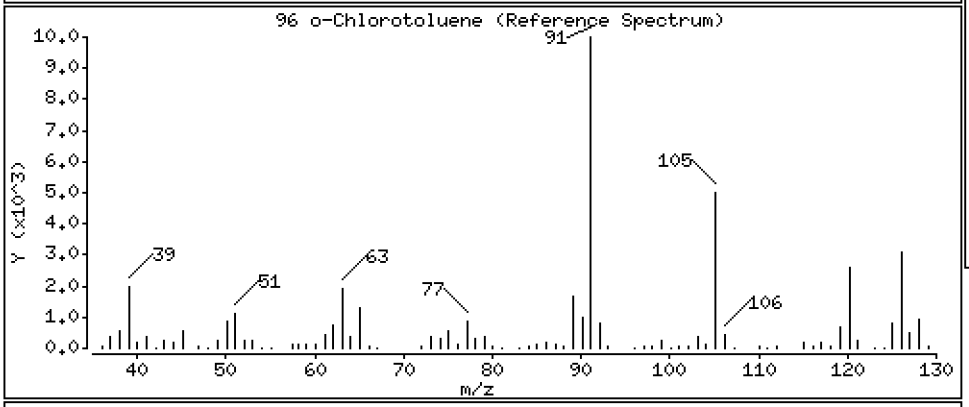
96 o-Chlorotoluene Concentration: 20.9538 ug/L

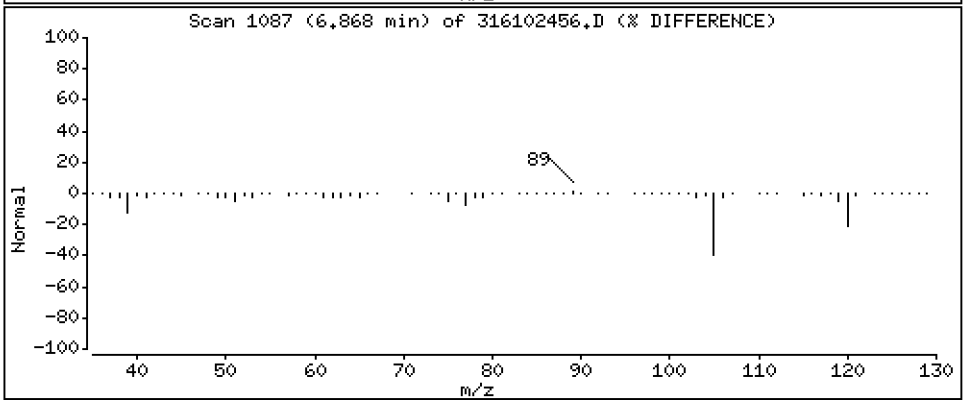












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 99

Date : 25-OCT-2016 00:30

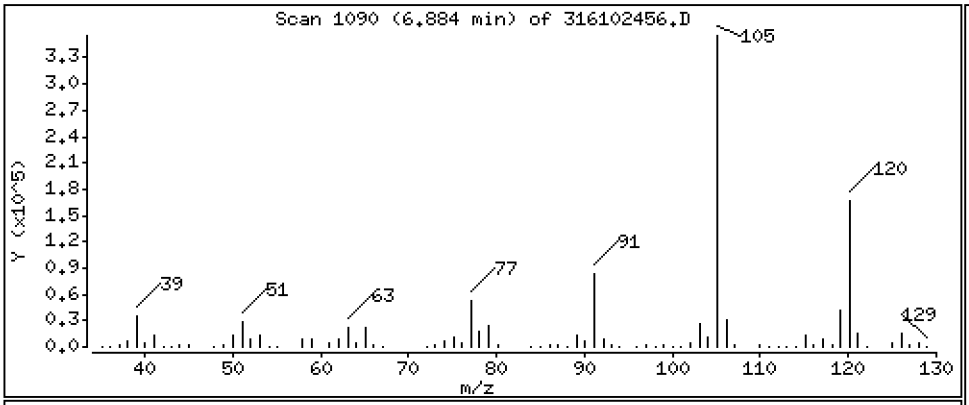
Client ID: Instrument: ms03.i

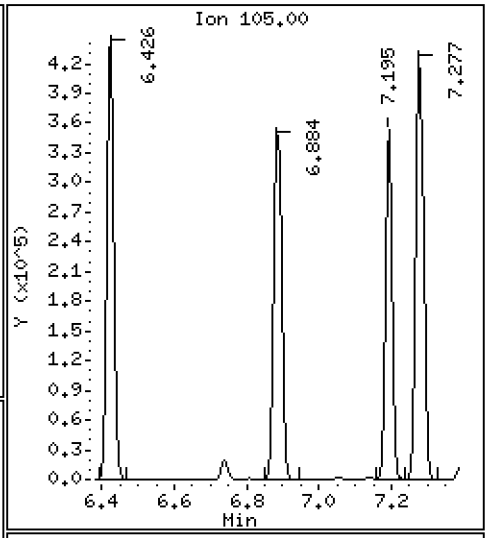
Sample Info: 1236;;1;1;3;;;

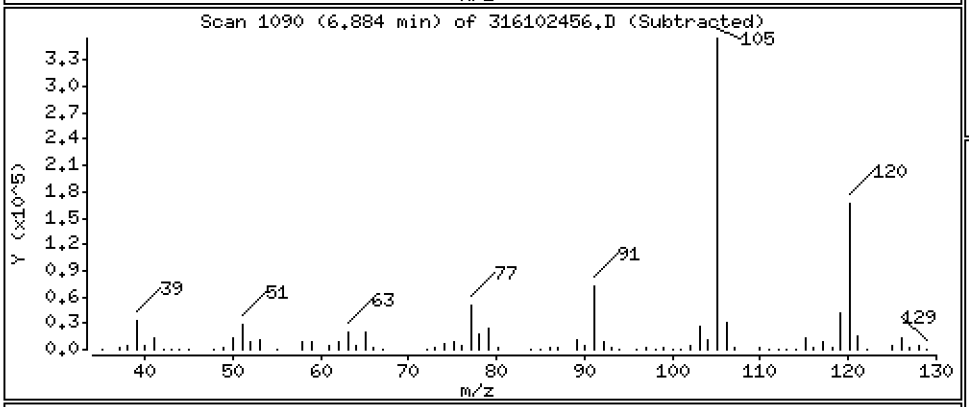
Purge Volume: 5.0 Operator: CJG

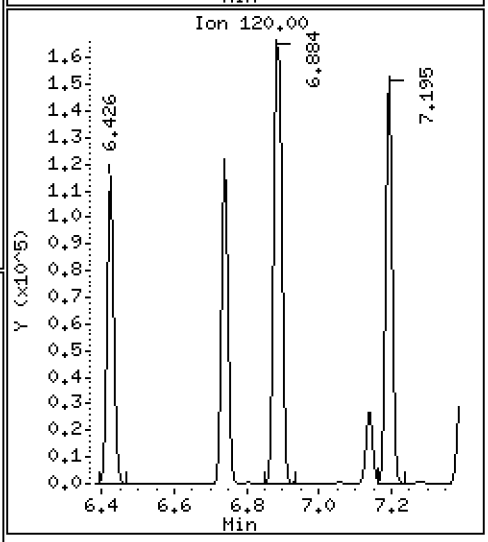
Column phase: DB-VRX Column diameter: 0.25

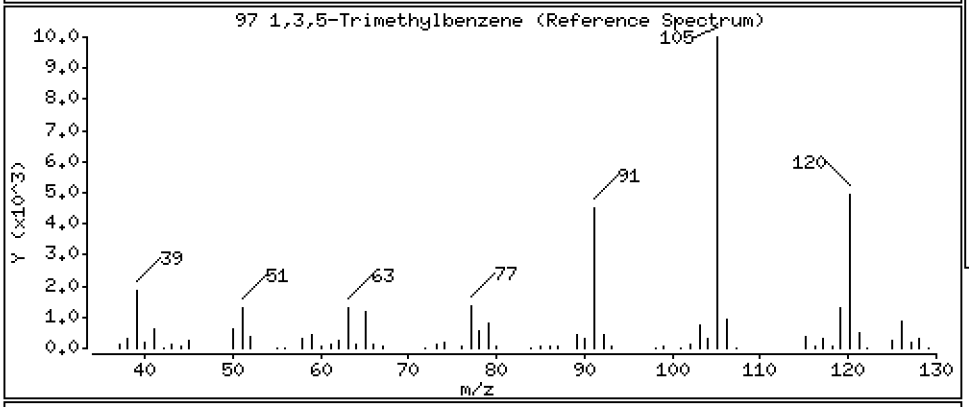
97 1,3,5-Trimethylbenzene Concentration: 21.0203 ug/L

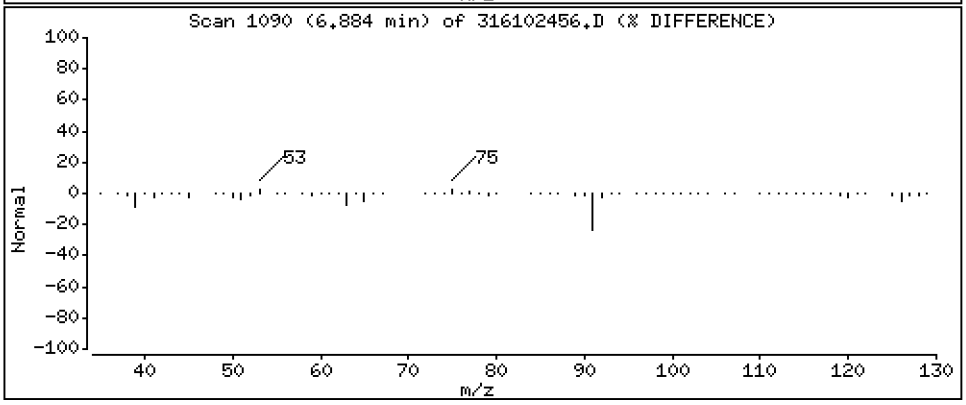












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 100

Date : 25-OCT-2016 00:30

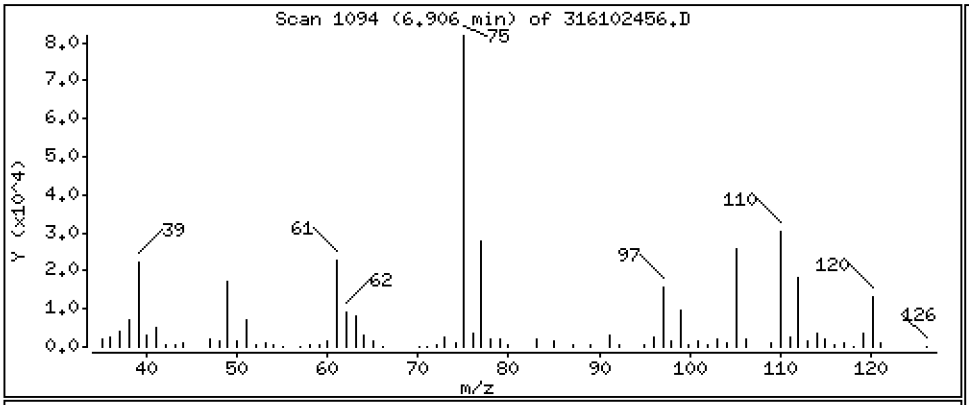
Client ID: Instrument: ms03.i

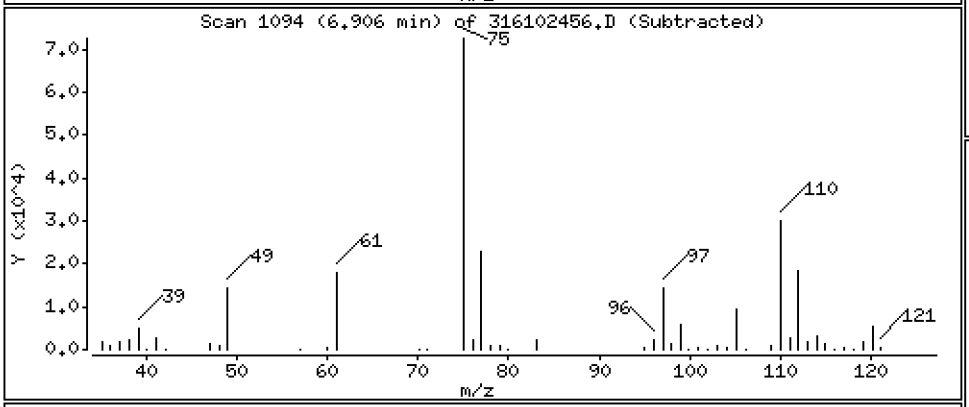
Sample Info: 1236;;1;1;3;;;

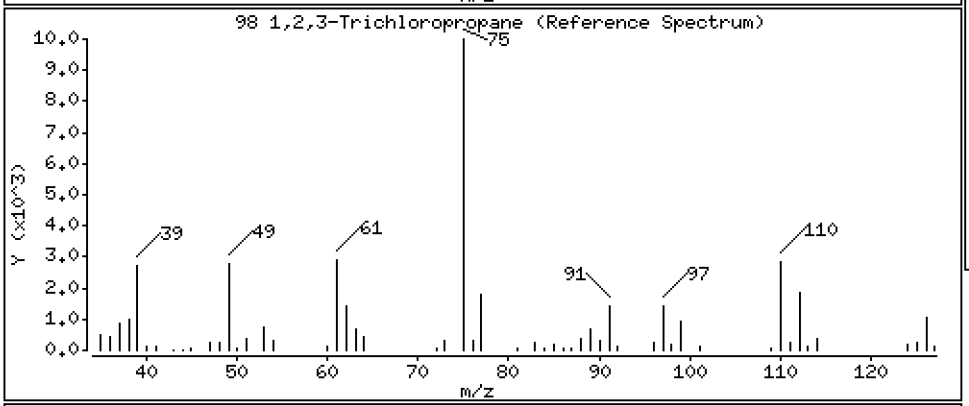
Purge Volume: 5.0 Operator: CJG

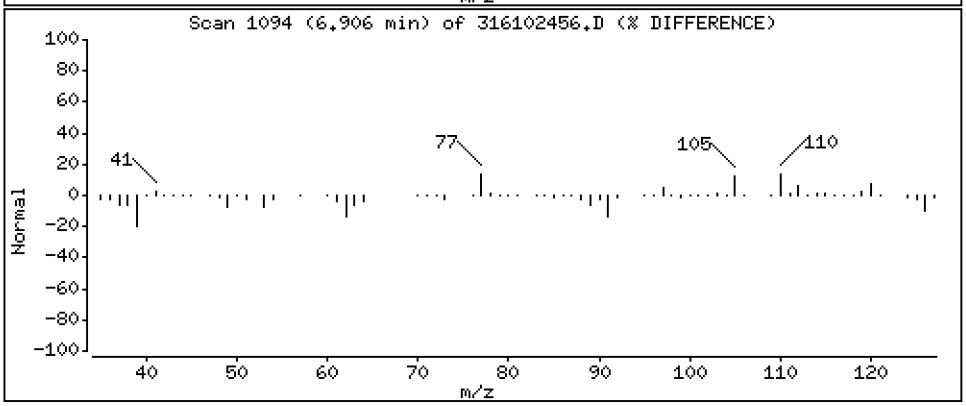
Column phase: DB-VRX Column diameter: 0.25

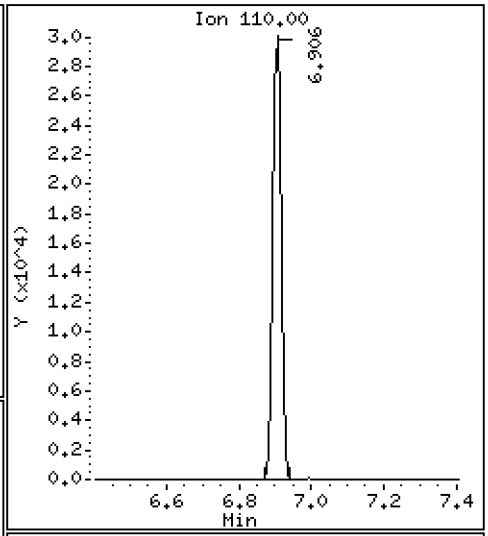
98 1,2,3-Trichloropropane Concentration: 20.9866 ug/L

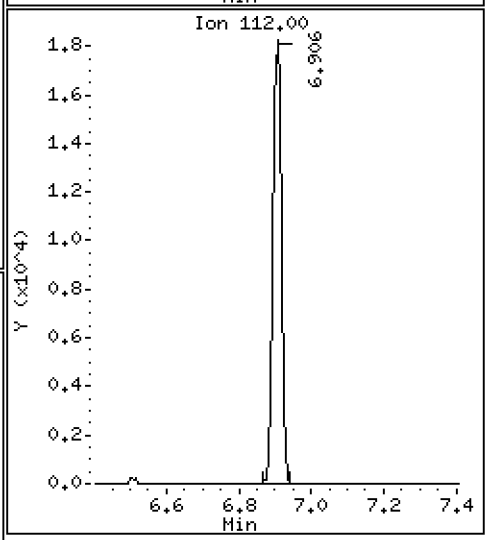












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 101

Date : 25-OCT-2016 00:30

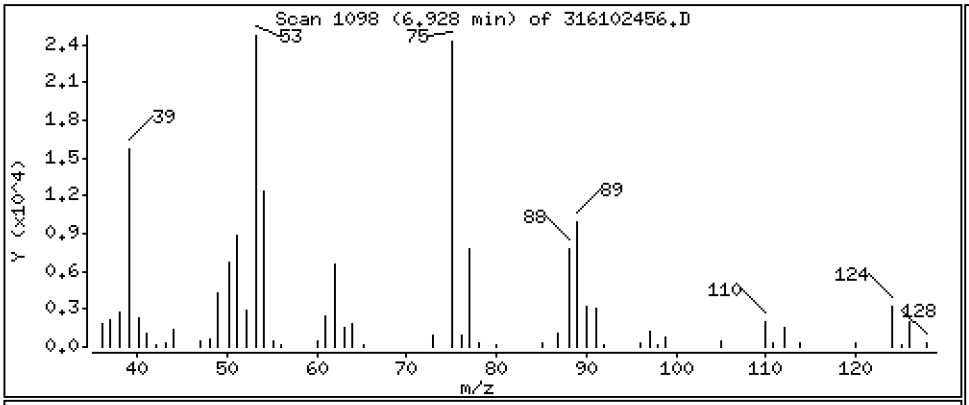
Client ID: Instrument: ms03.i

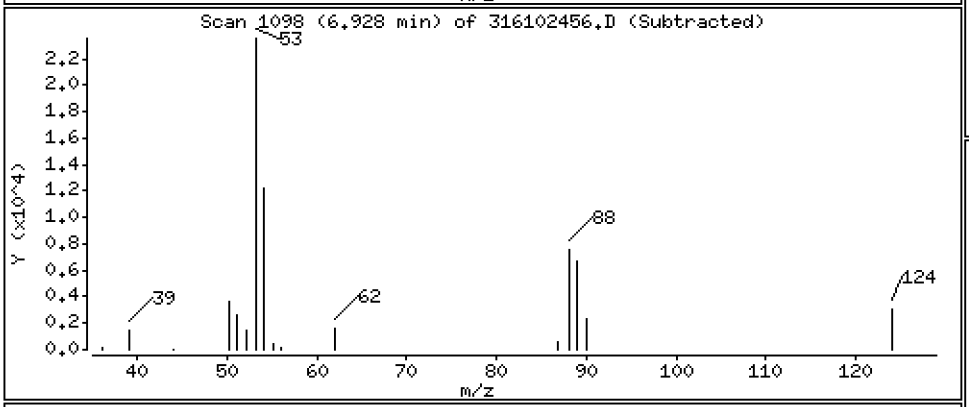
Sample Info: 1236;;1;1;3;;;

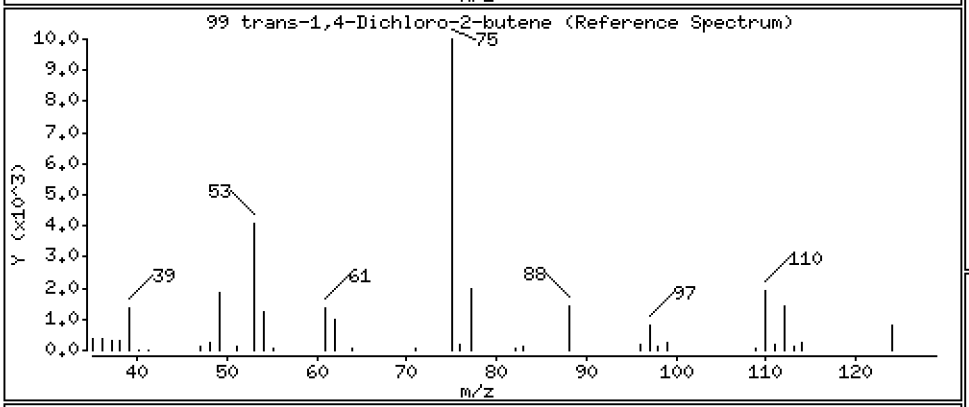
Purge Volume: 5.0 Operator: CJG

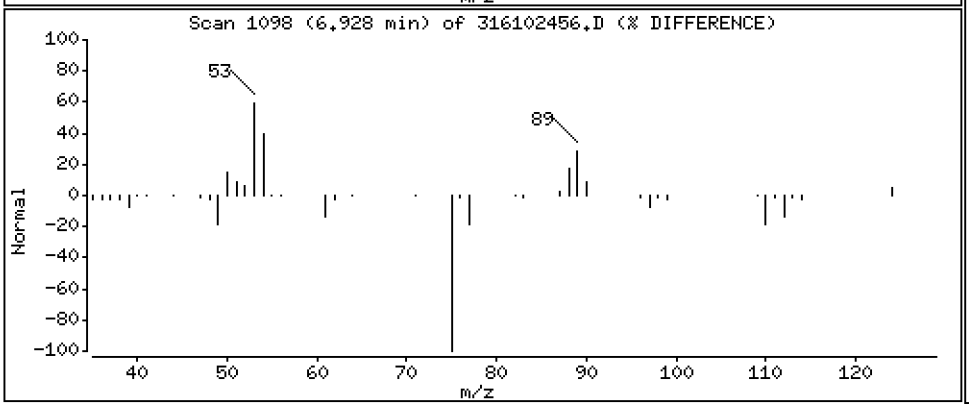
Column phase: DB-VRX Column diameter: 0.25

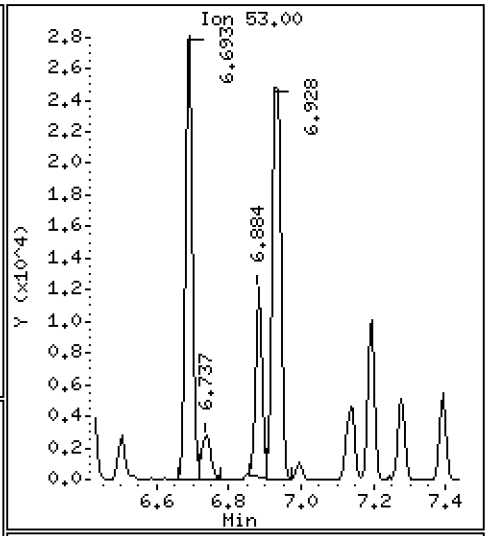
99 trans-1,4-Dichloro-2-butene Concentration: 19.1999 ug/L

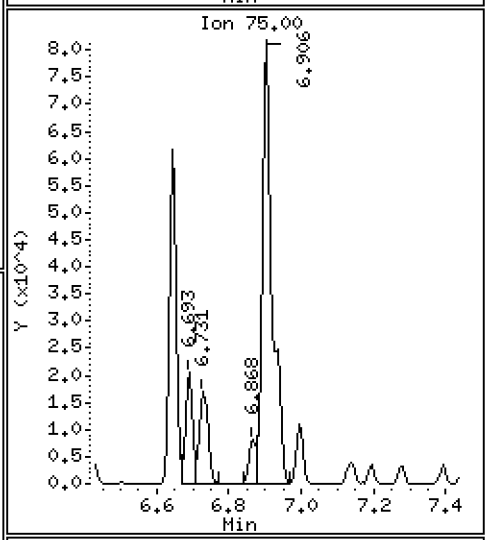


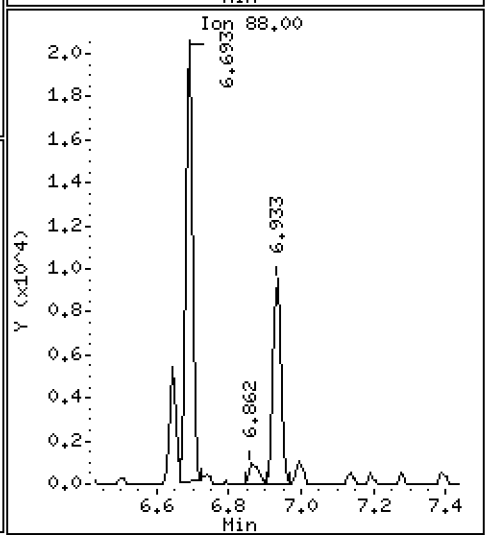












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 102

Date : 25-OCT-2016 00:30

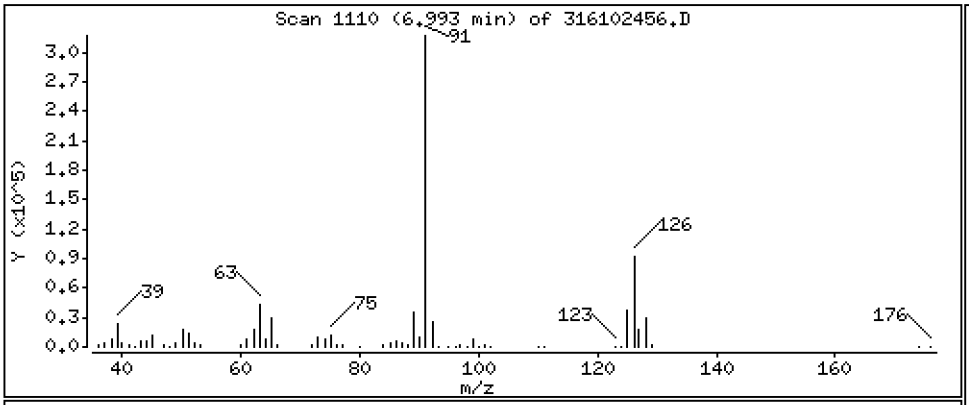
Client ID: Instrument: ms03.i

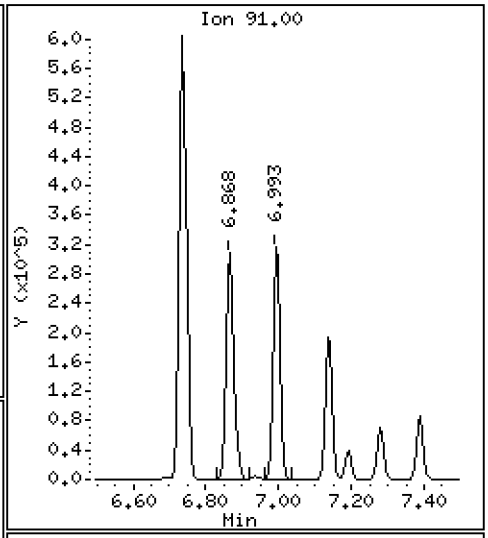
Sample Info: 1236;;1;1;3;;;

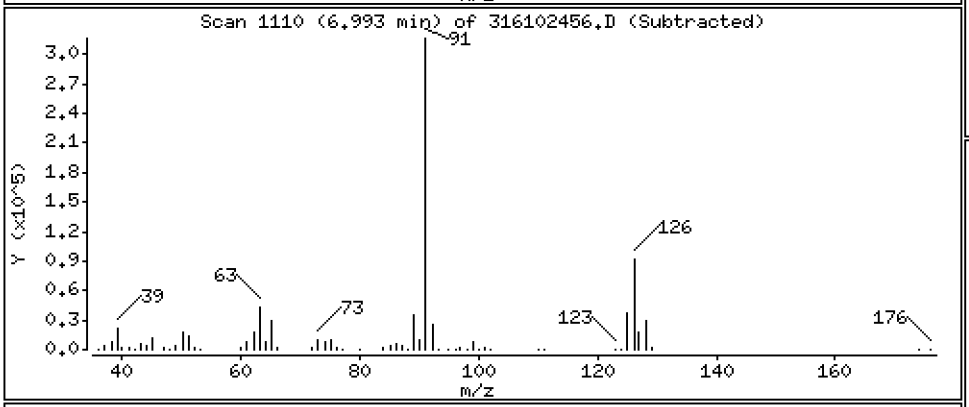
Purge Volume: 5.0 Operator: CJG

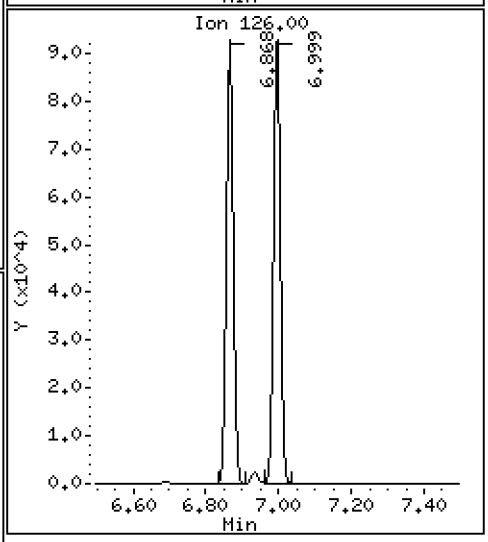
Column phase: DB-VRX Column diameter: 0.25

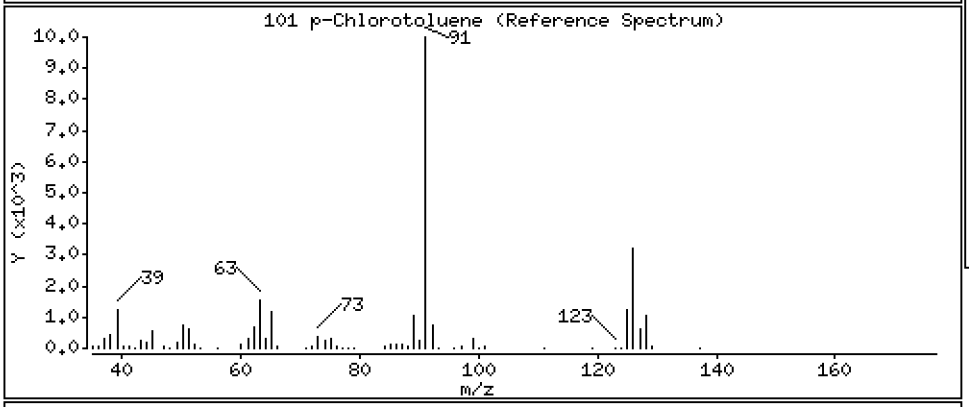
101 p-Chlorotoluene Concentration: 20.6400 ug/L

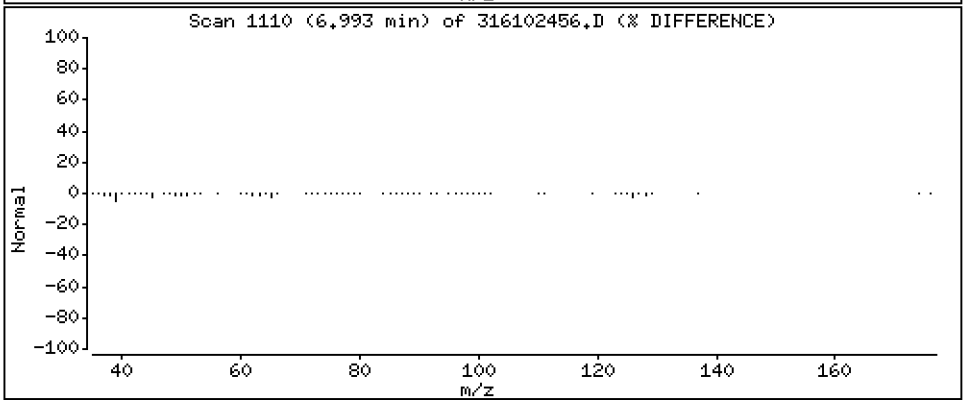












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 103

Date : 25-OCT-2016 00:30

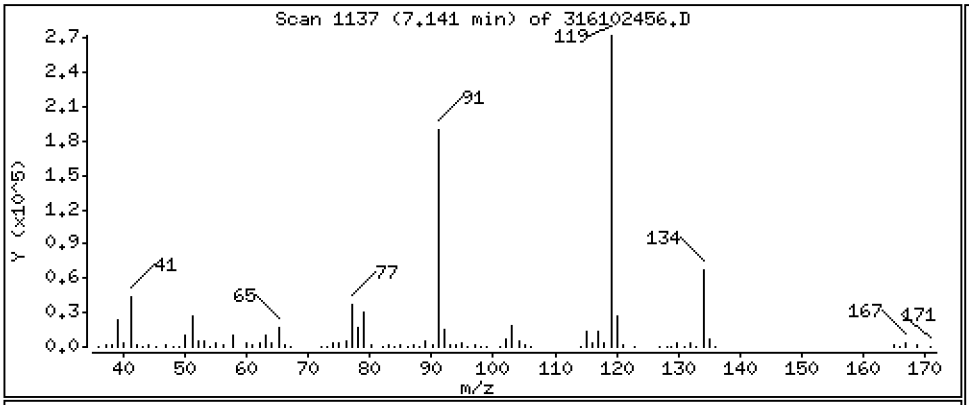
Client ID: Instrument: ms03.i

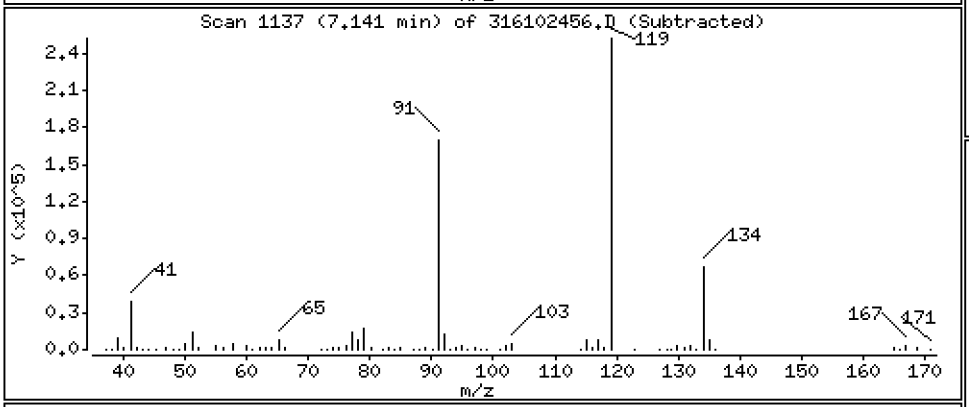
Sample Info: 1236;;1;1;3;;;

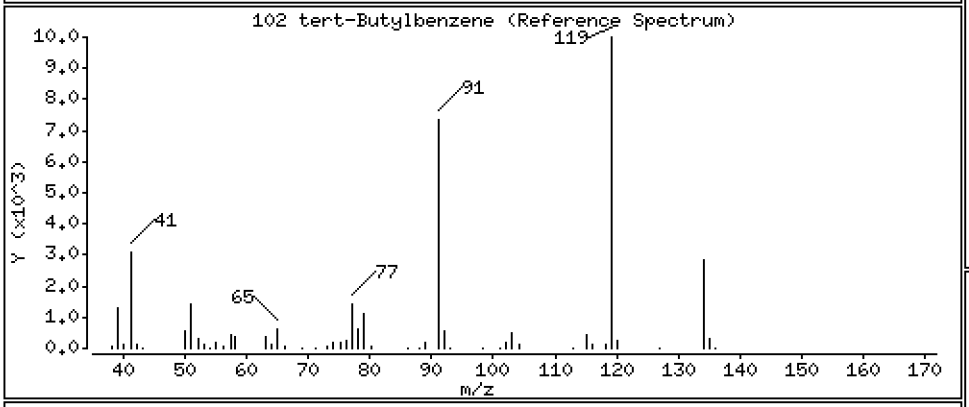
Purge Volume: 5.0 Operator: CJG

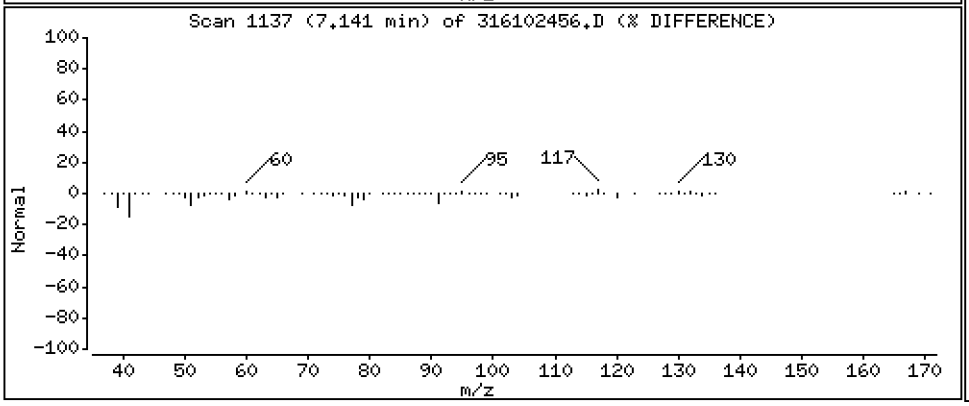
Column phase: DB-VRX Column diameter: 0.25

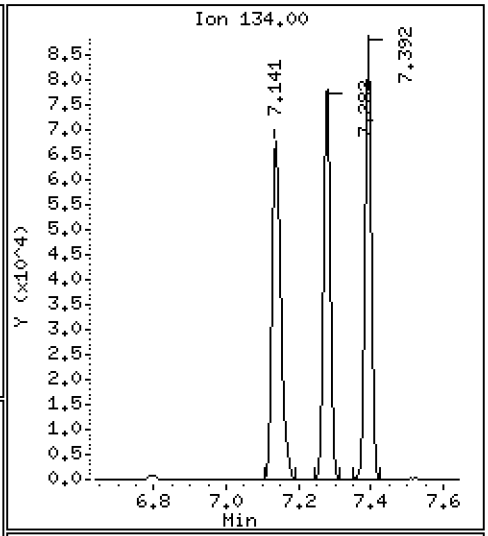
102 tert-Butylbenzene Concentration: 21.2947 ug/L

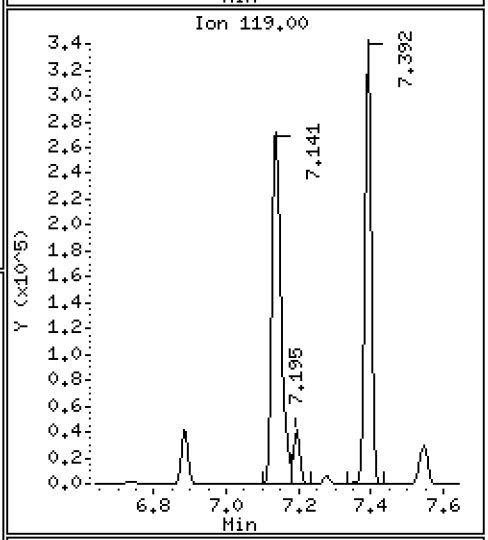


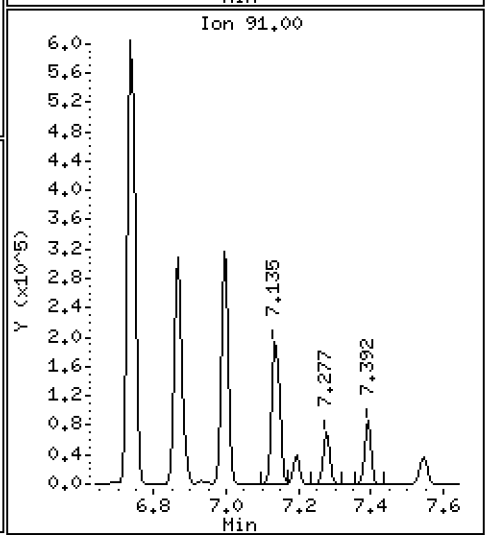












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 104

Date : 25-OCT-2016 00:30

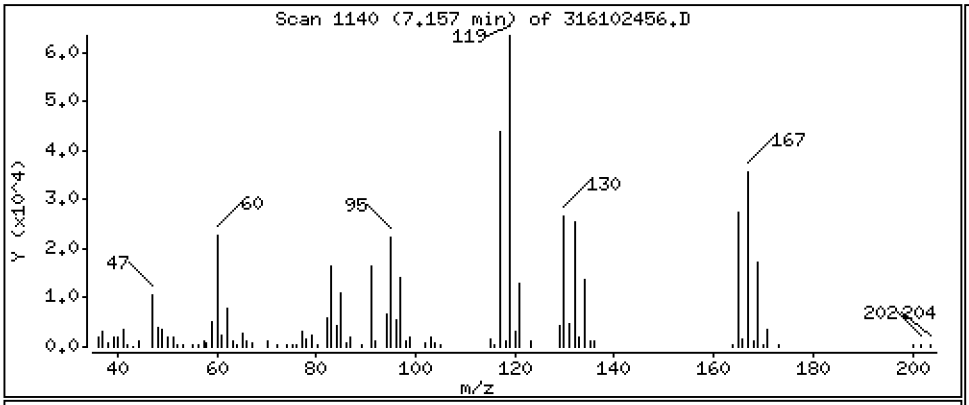
Client ID: Instrument: ms03.i

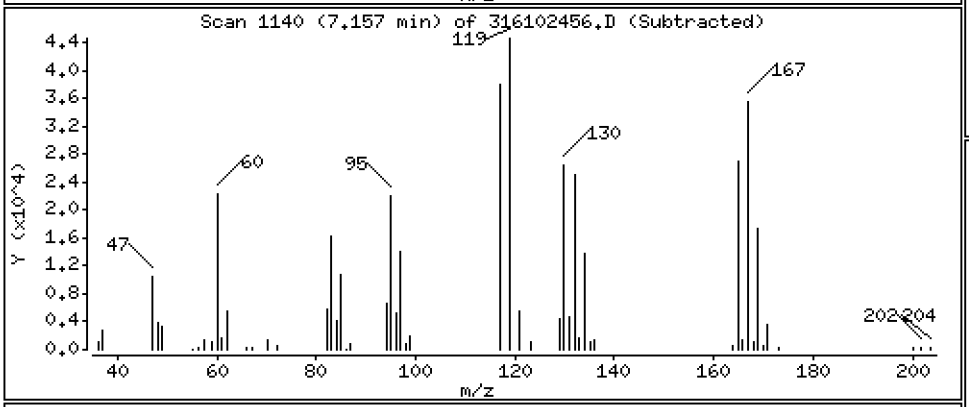
Sample Info: 1236;;1;1;3;;;

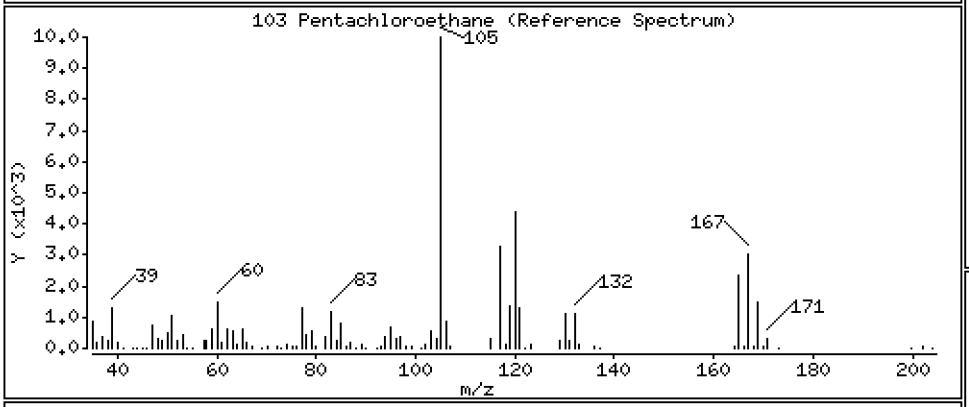
Purge Volume: 5.0 Operator: CJG

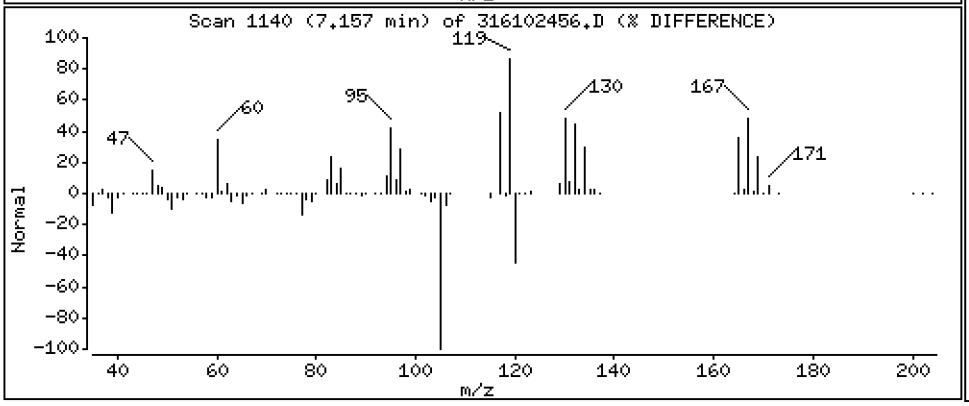
Column phase: DB-VRX Column diameter: 0.25

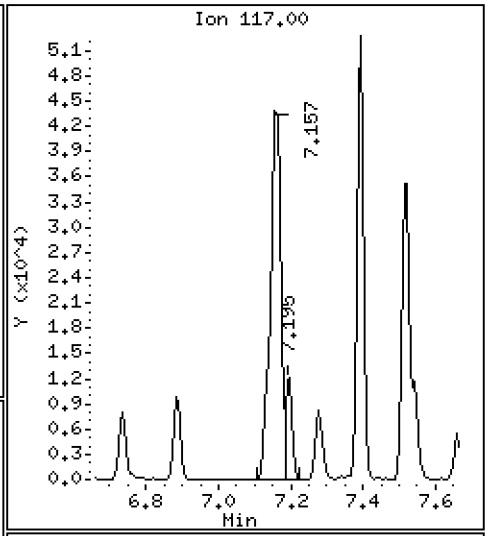
103 Pentachloroethane Concentration: 19.6821 ug/L

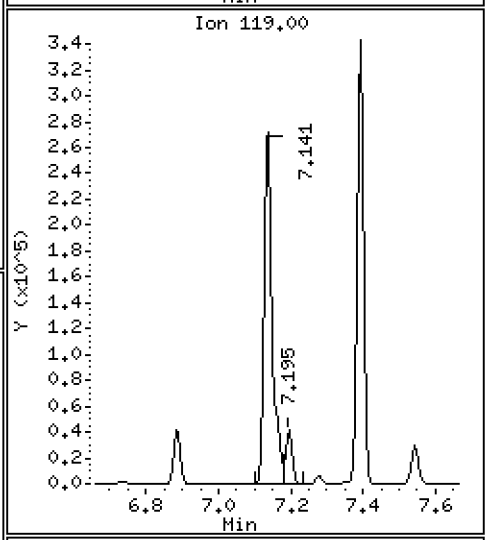


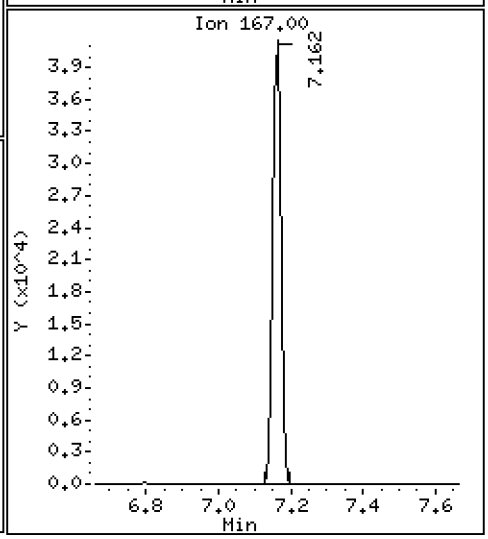












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 105

Date : 25-OCT-2016 00:30

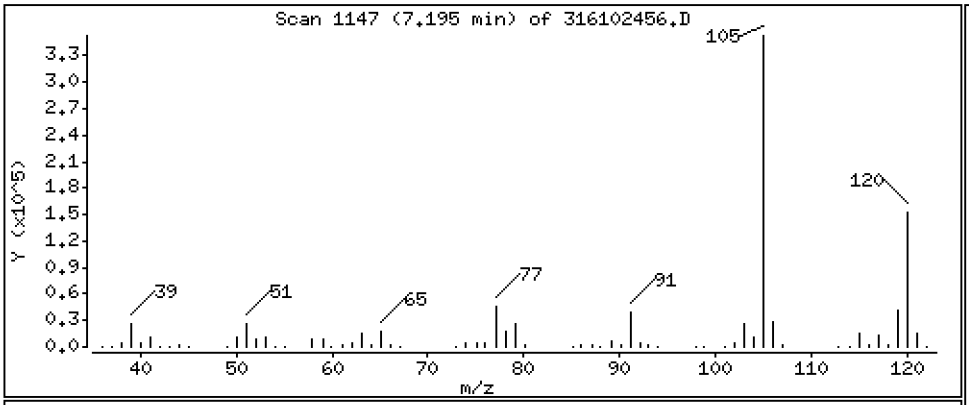
Client ID: Instrument: ms03.i

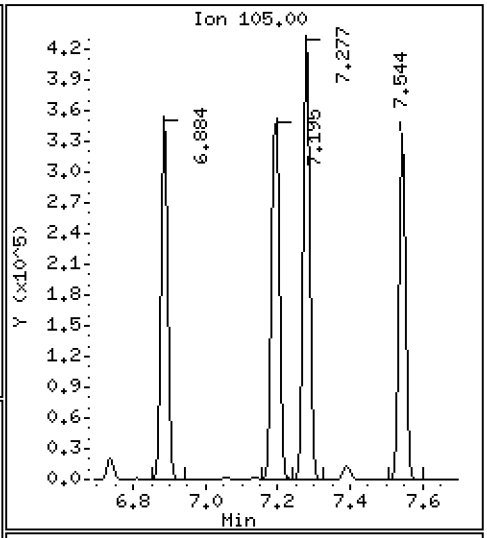
Sample Info: 1236;;1;1;3;;;

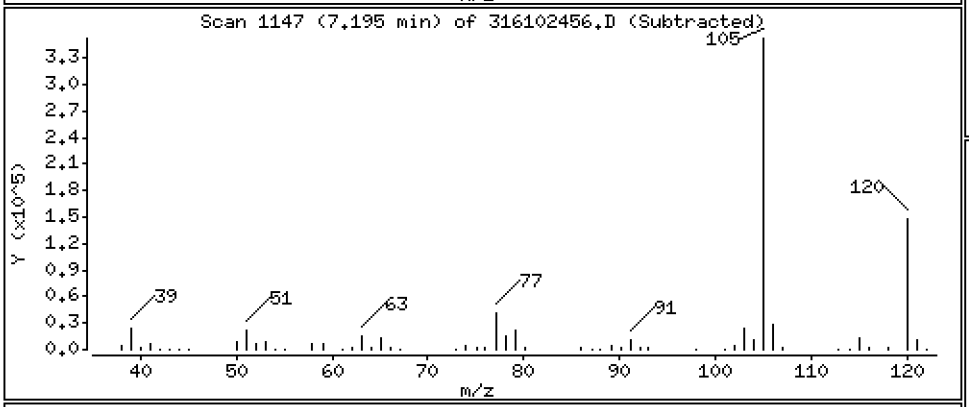
Purge Volume: 5.0 Operator: CJG

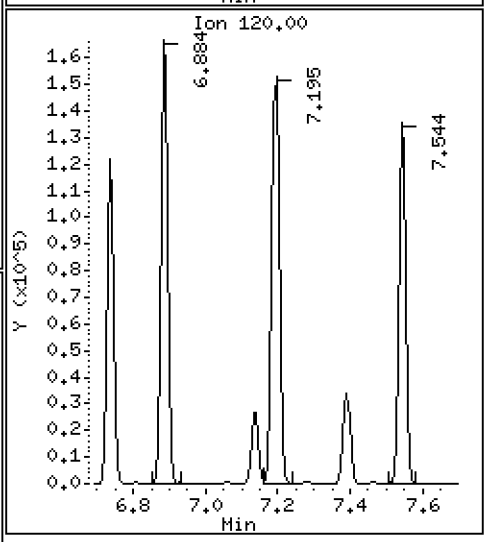
Column phase: DB-VRX Column diameter: 0.25

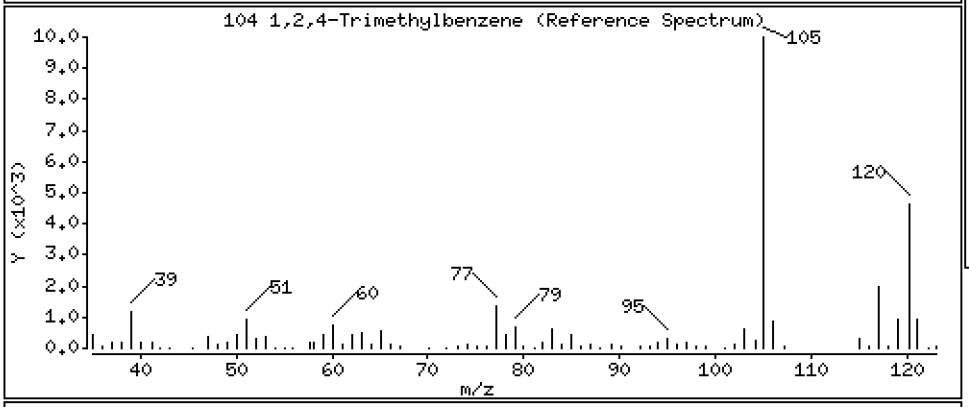
104 1,2,4-Trimethylbenzene Concentration: 20.7071 ug/L

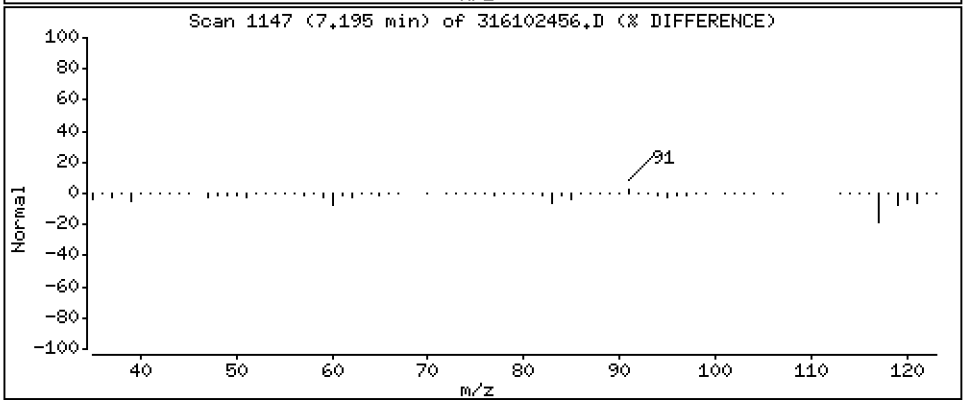












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 106

Date : 25-OCT-2016 00:30

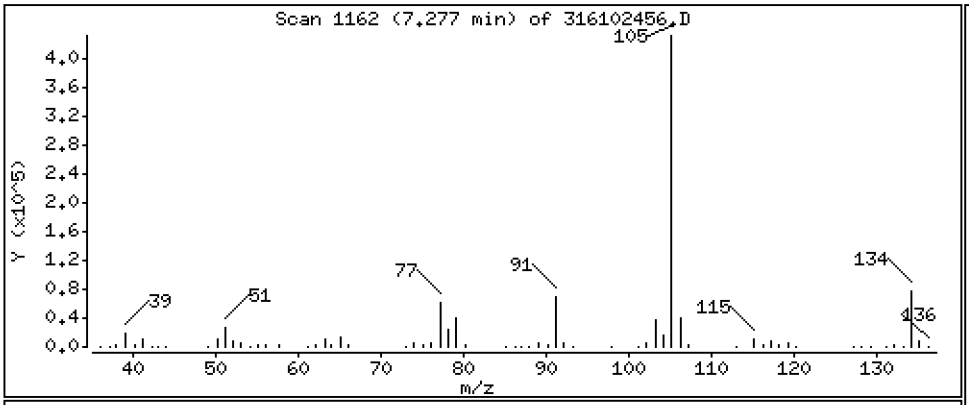
Client ID: Instrument: ms03.i

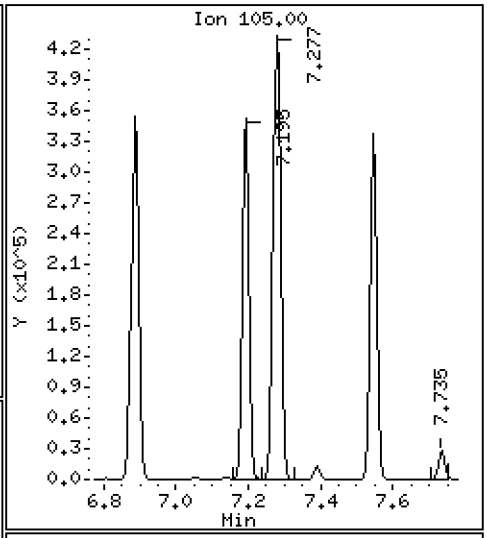
Sample Info: 1236;;1;1;3;;;

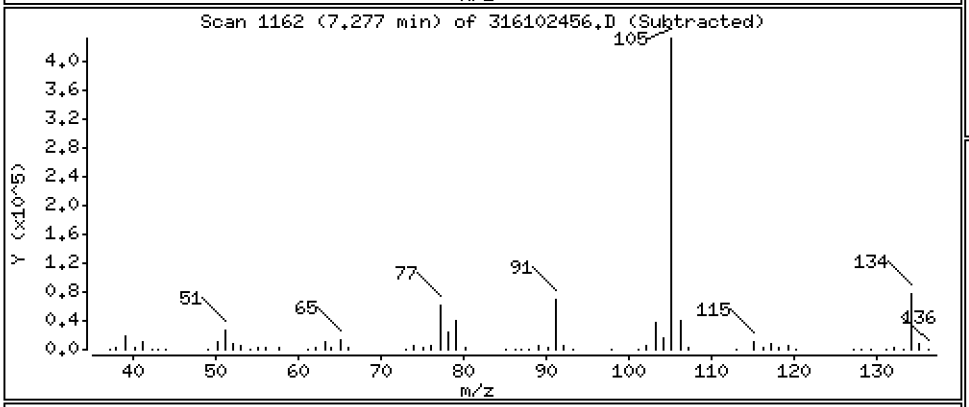
Purge Volume: 5.0 Operator: CJG

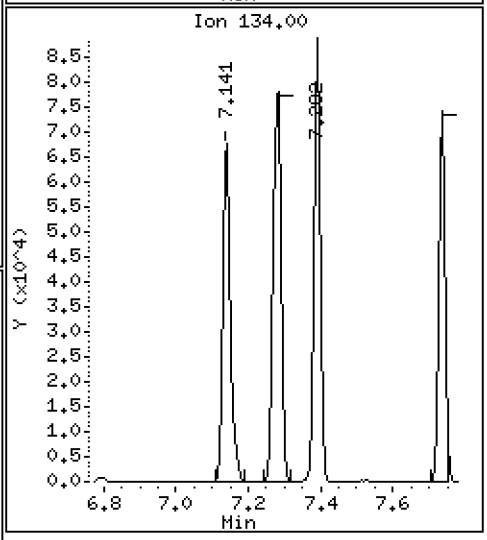
Column phase: DB-VRX Column diameter: 0.25

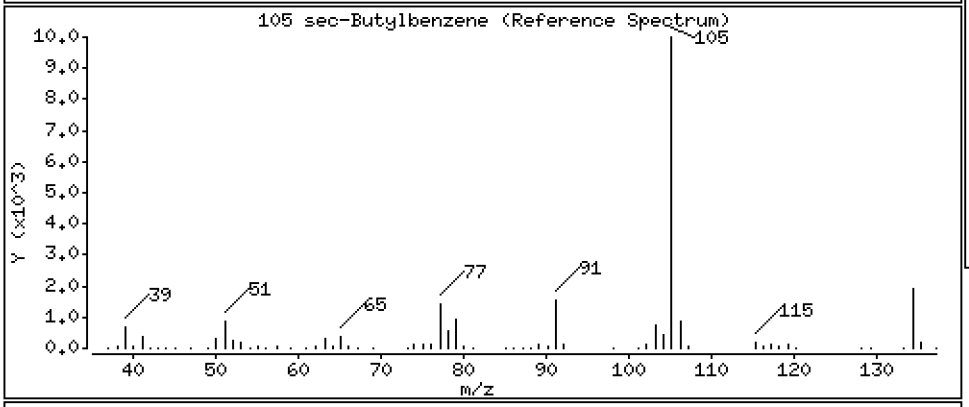
105 sec-Butylbenzene Concentration: 21.2680 ug/L

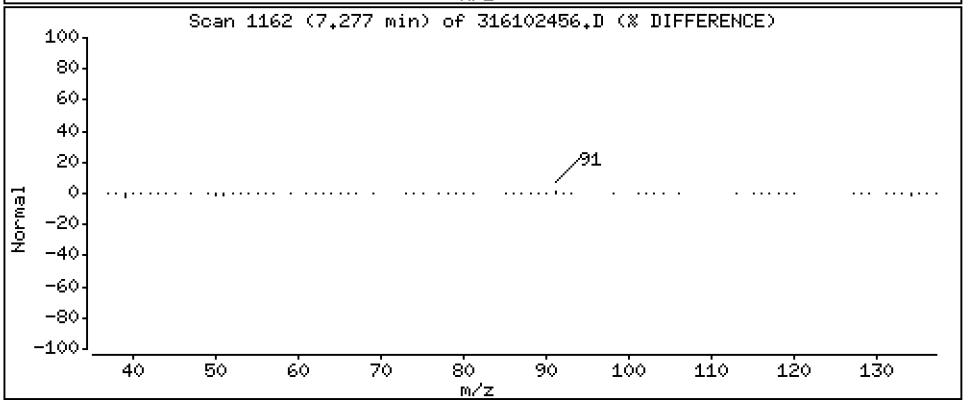












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 107

Date : 25-OCT-2016 00:30

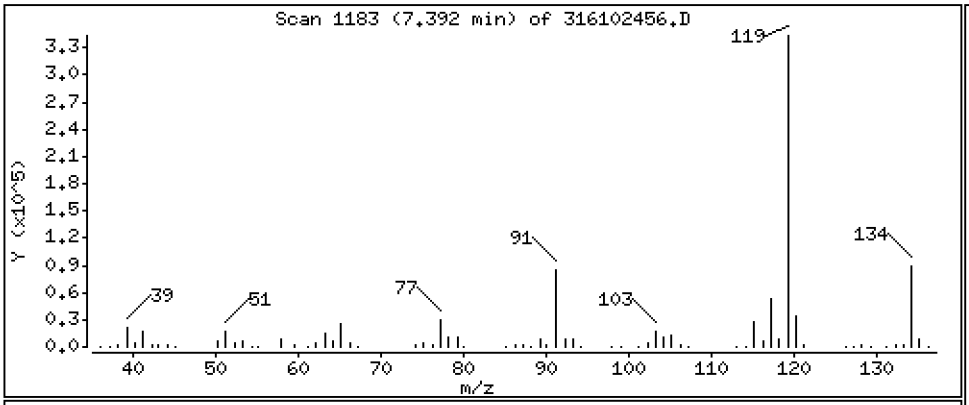
Client ID: Instrument: ms03.i

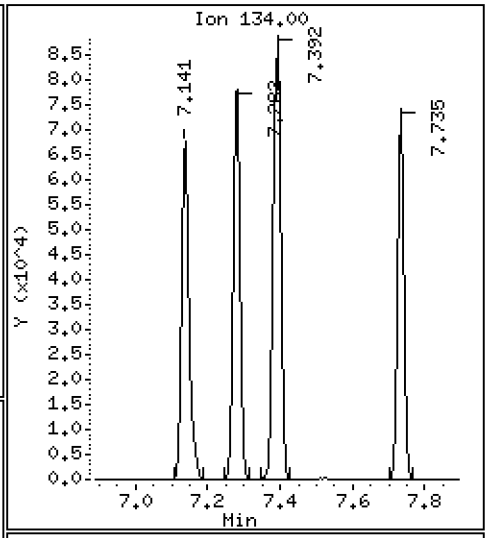
Sample Info: 1236;;1;1;3;;;

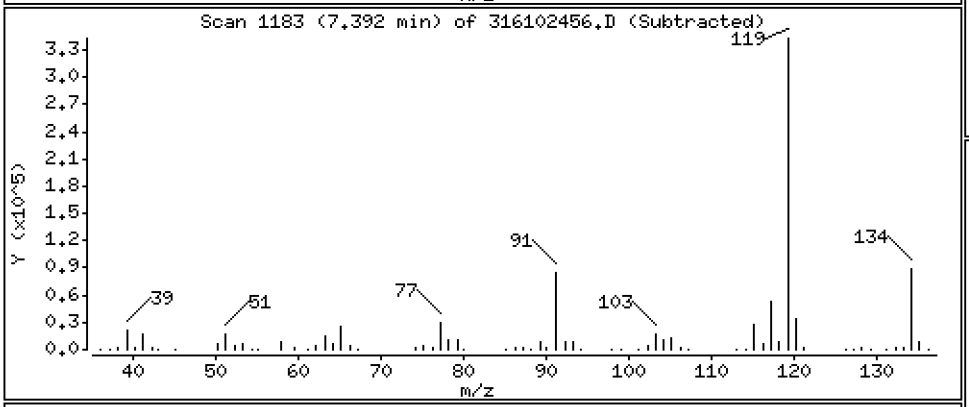
Purge Volume: 5.0 Operator: CJG

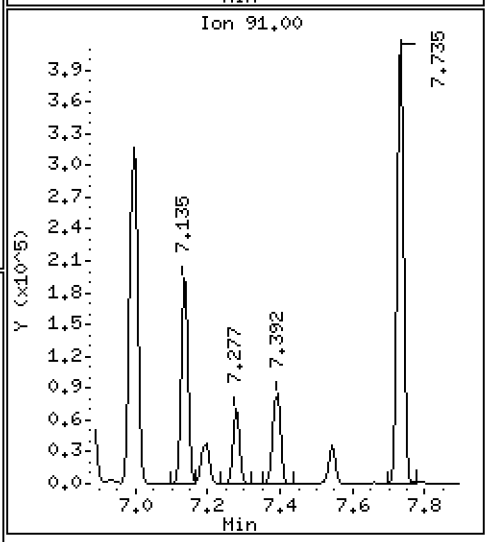
Column phase: DB-VRX Column diameter: 0.25

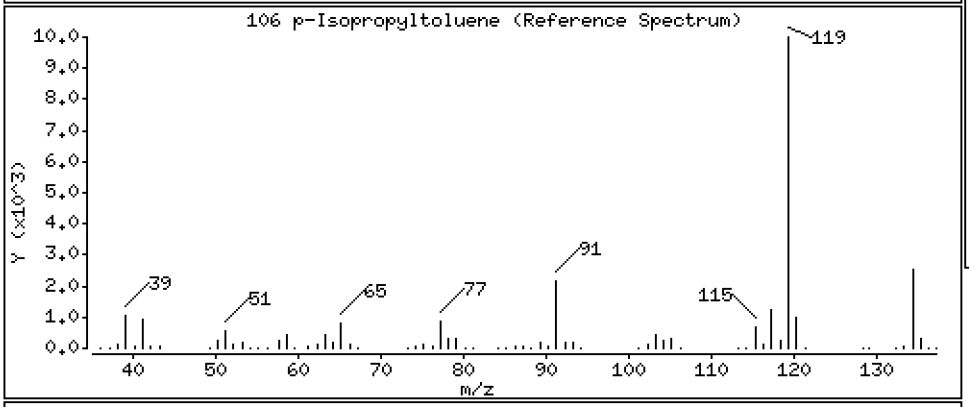
106 p-Isopropyltoluene Concentration: 20.6170 ug/L

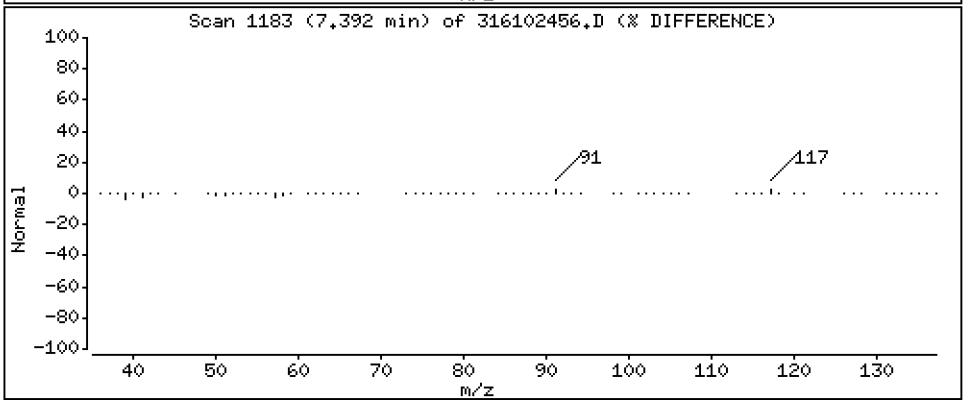












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 108

Date : 25-OCT-2016 00:30

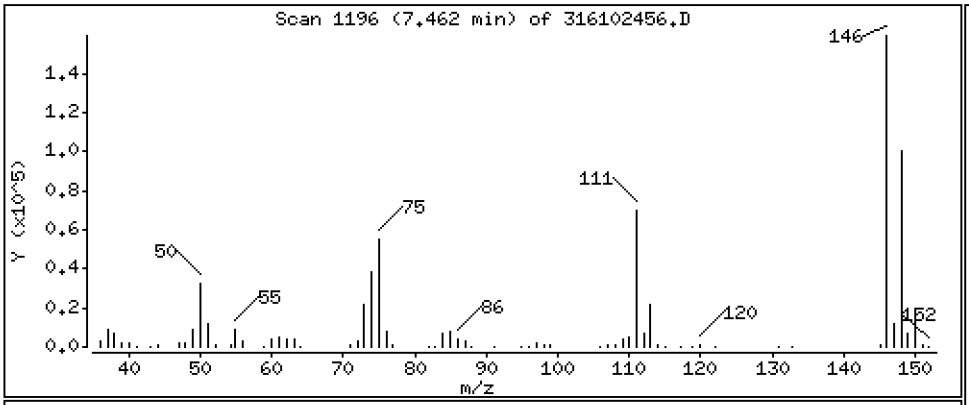
Client ID: Instrument: ms03.i

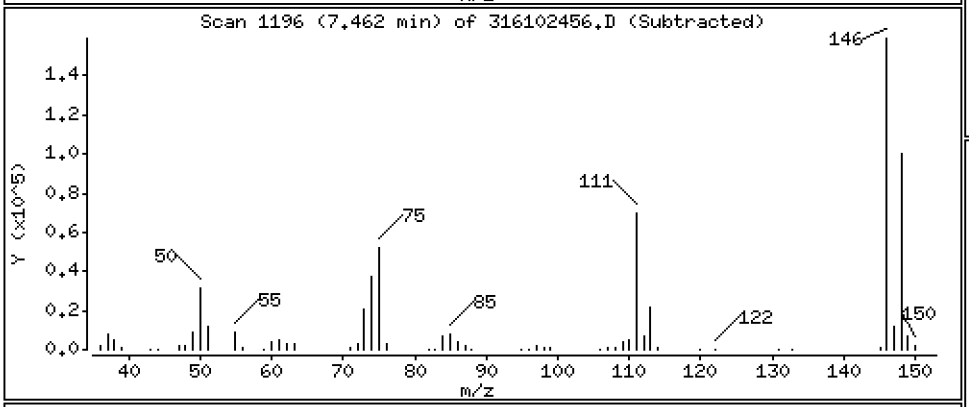
Sample Info: 1236;;1;1;3;;;

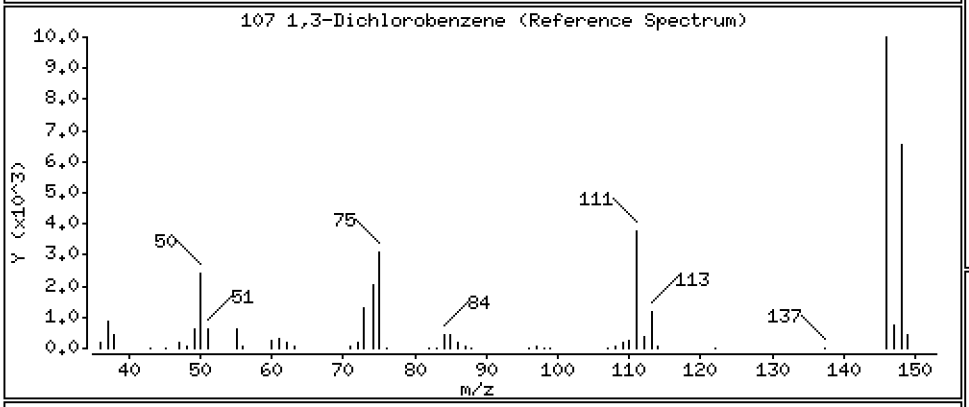
Purge Volume: 5.0 Operator: CJG

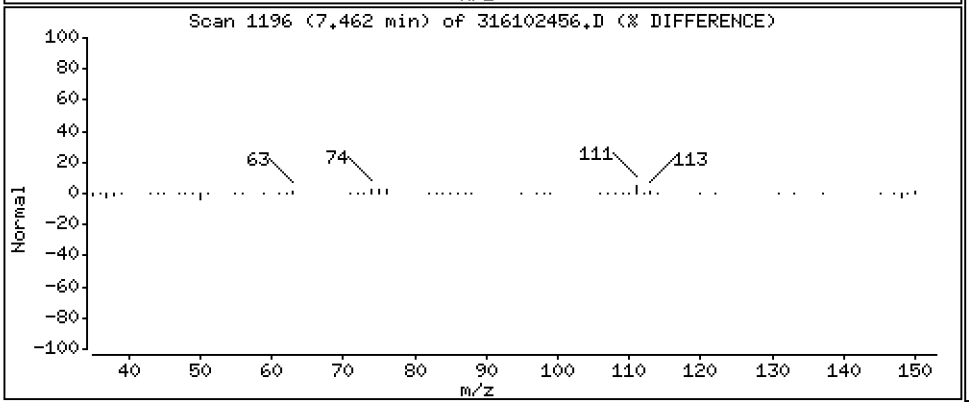
Column phase: DB-VRX Column diameter: 0.25

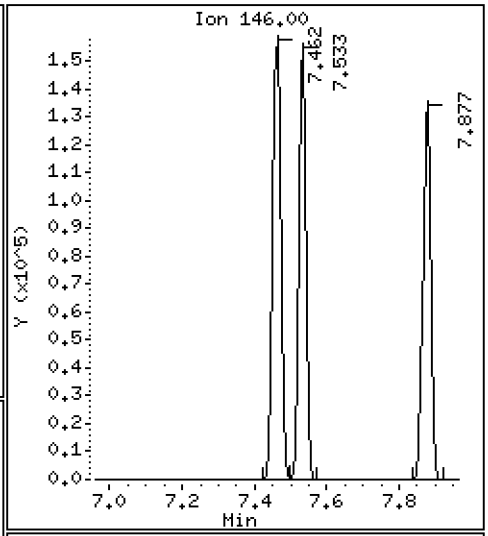
107 1,3-Dichlorobenzene Concentration: 20.8608 ug/L

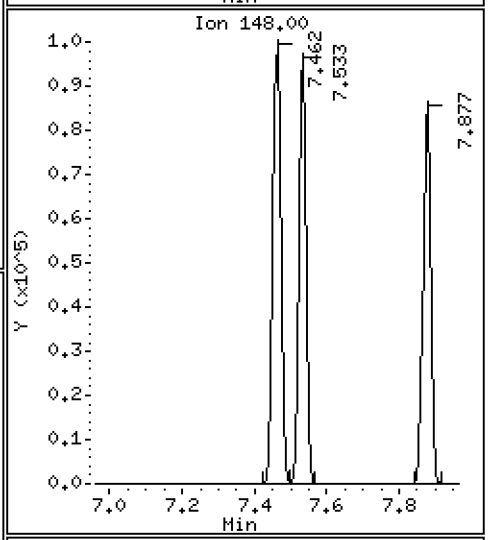


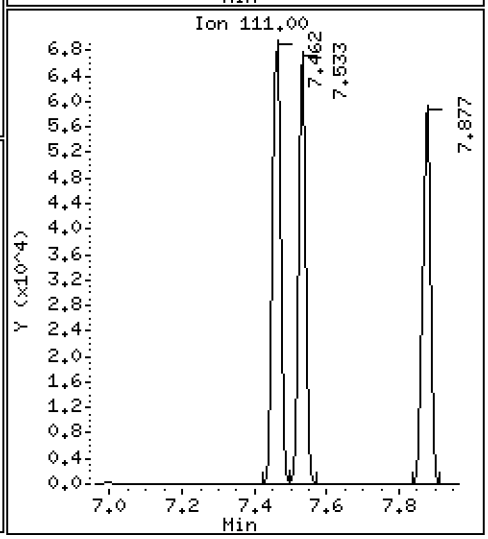












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 109

Date : 25-OCT-2016 00:30

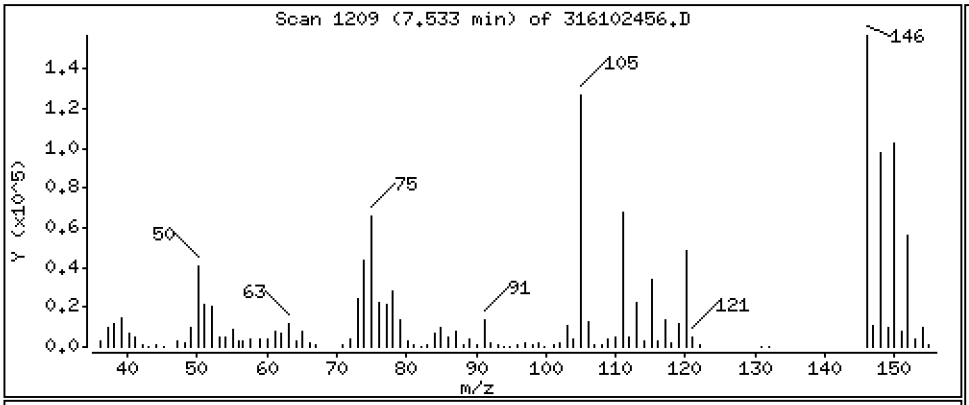
Client ID: Instrument: ms03.i

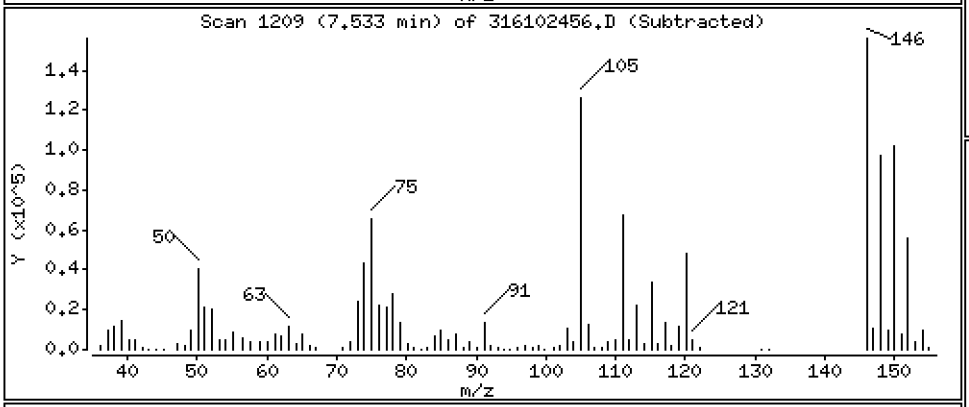
Sample Info: 1236;;1;1;3;;;

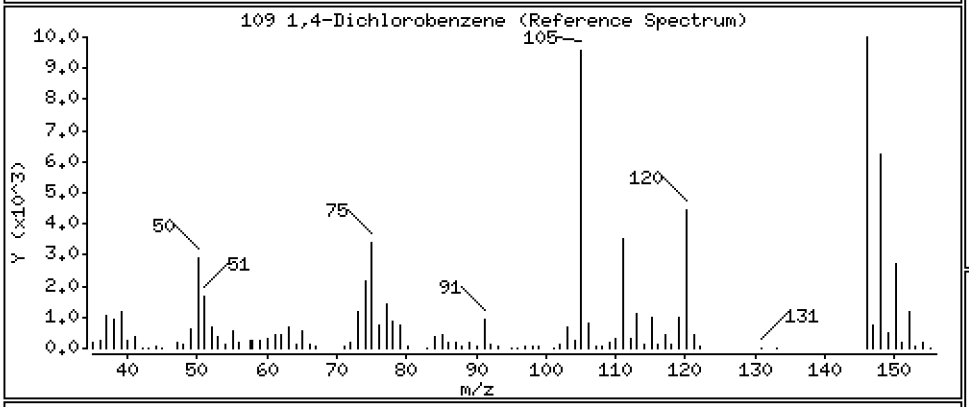
Purge Volume: 5.0 Operator: CJG

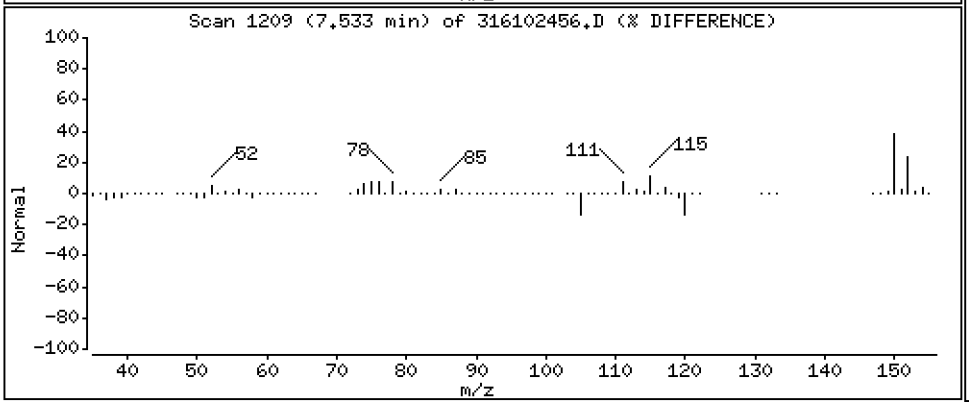
Column phase: DB-VRX Column diameter: 0.25

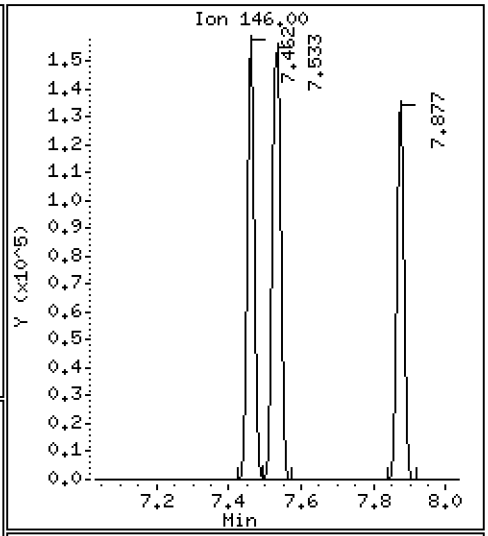
109 1,4-Dichlorobenzene Concentration: 20.8640 ug/L

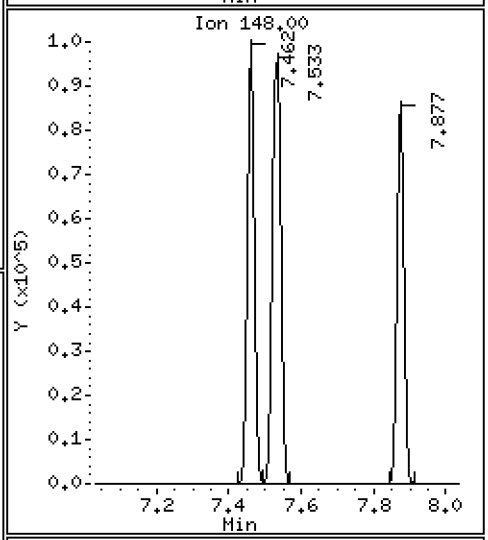


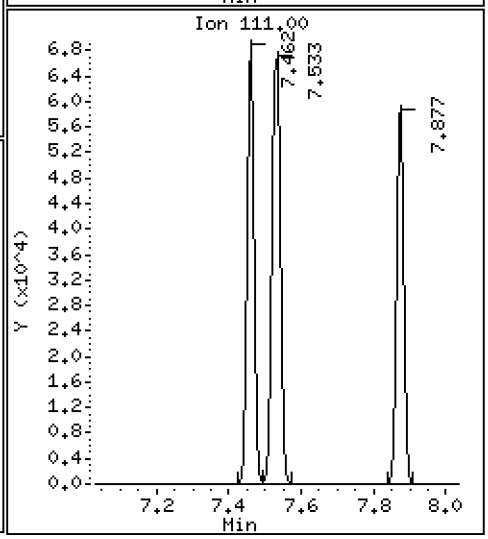












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 110

Date : 25-OCT-2016 00:30

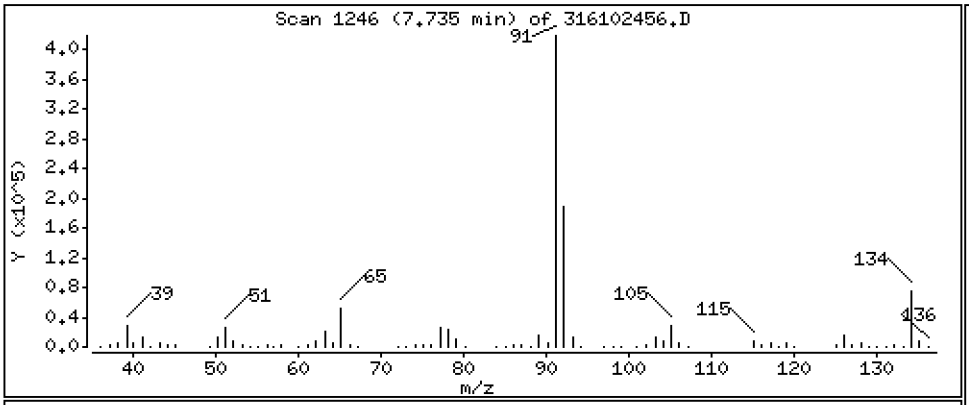
Client ID: Instrument: ms03.i

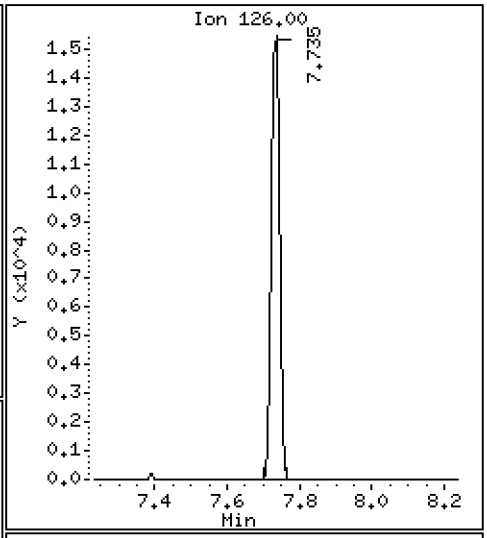
Sample Info: 1236;;1;1;3;;;

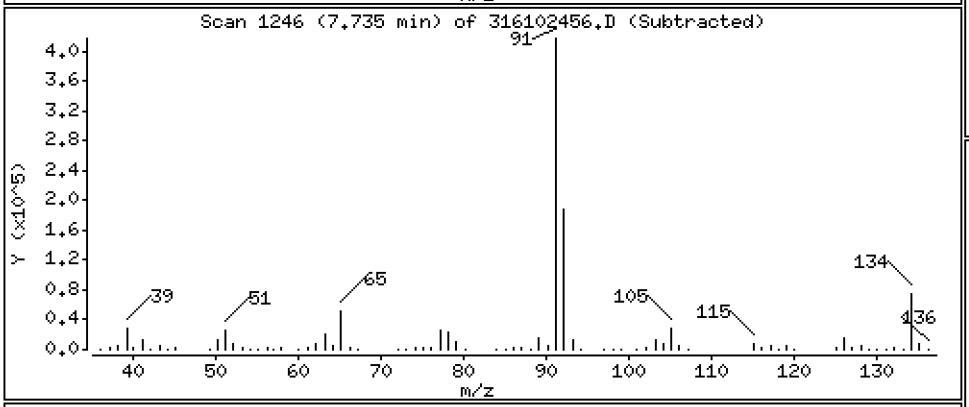
Purge Volume: 5.0 Operator: CJG

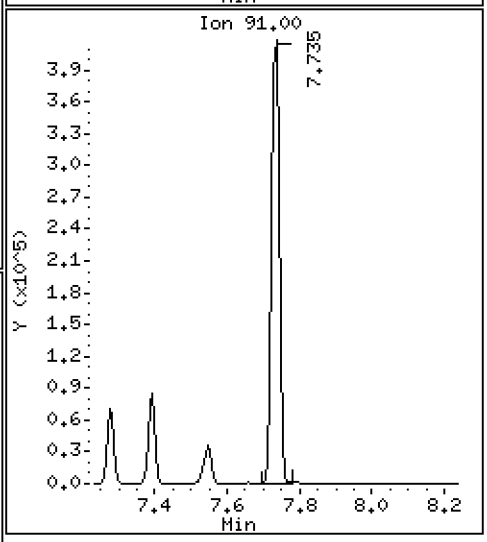
Column phase: DB-VRX Column diameter: 0.25

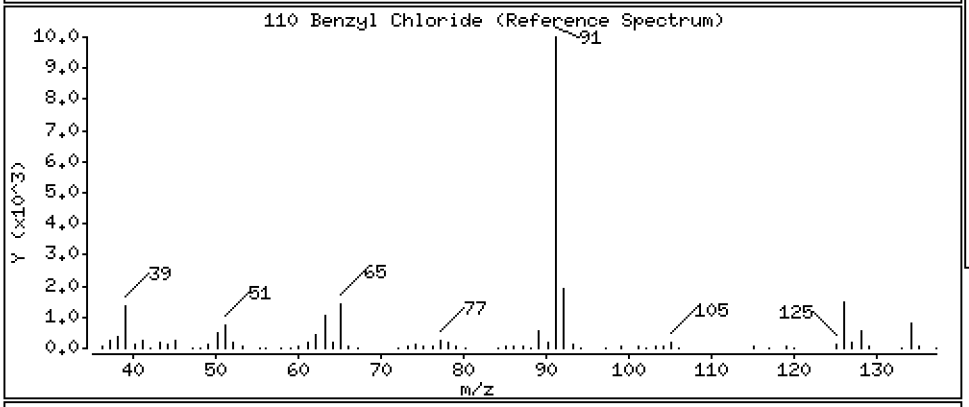
110 Benzyl Chloride Concentration: 15.8113 ug/L

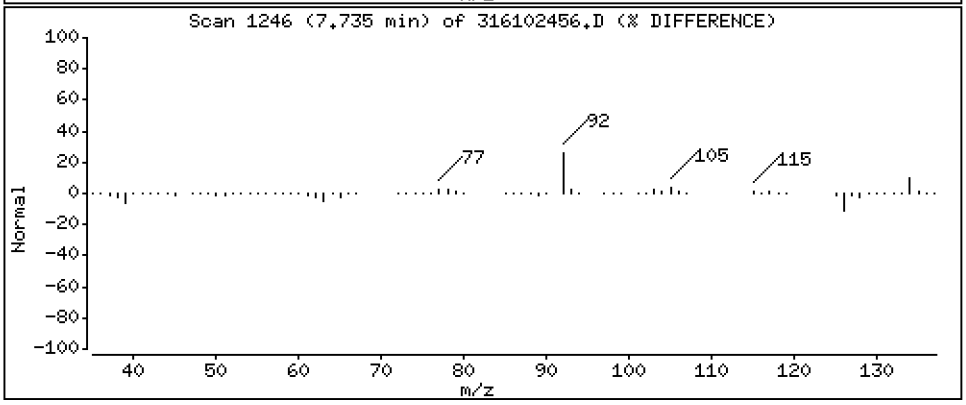












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 111

Date : 25-OCT-2016 00:30

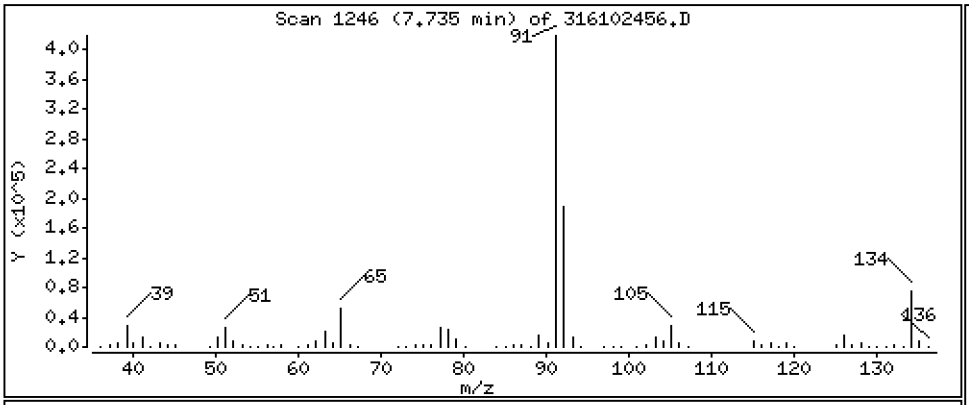
Client ID: Instrument: ms03.i

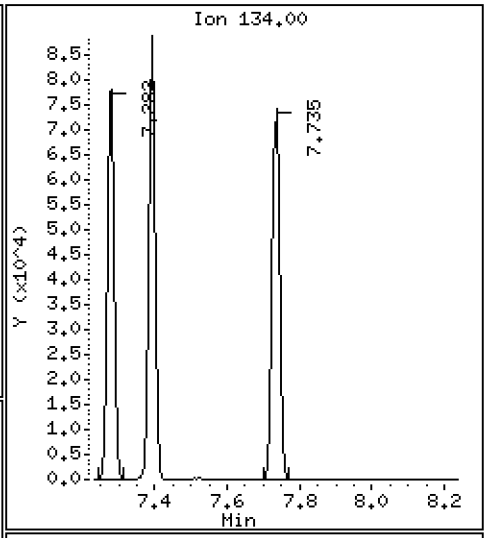
Sample Info: 1236;;1;1;3;;;

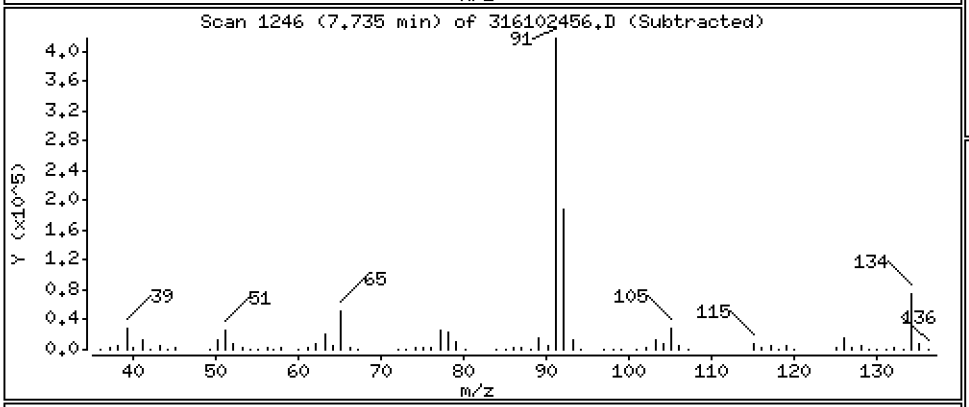
Purge Volume: 5.0 Operator: CJG

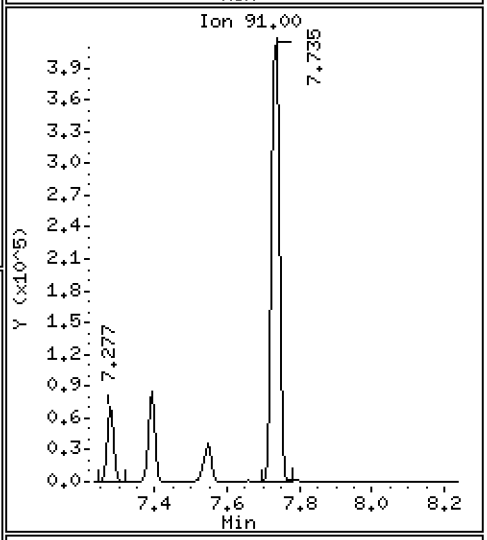
Column phase: DB-VRX Column diameter: 0.25

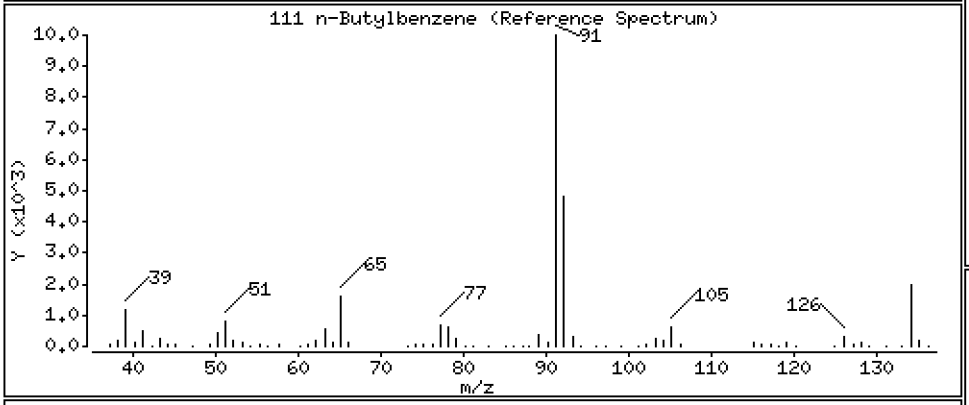
111 n-Butylbenzene Concentration: 20.2340 ug/L

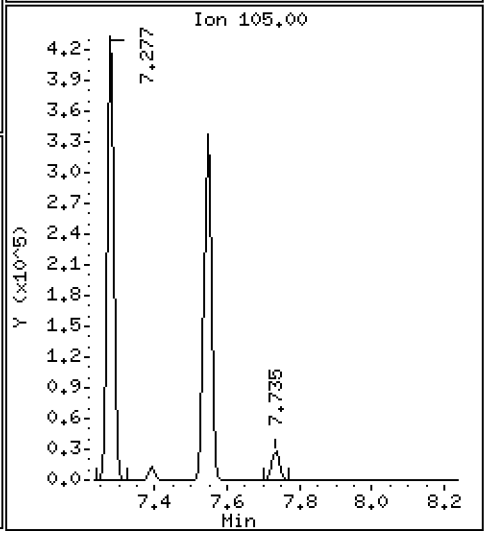


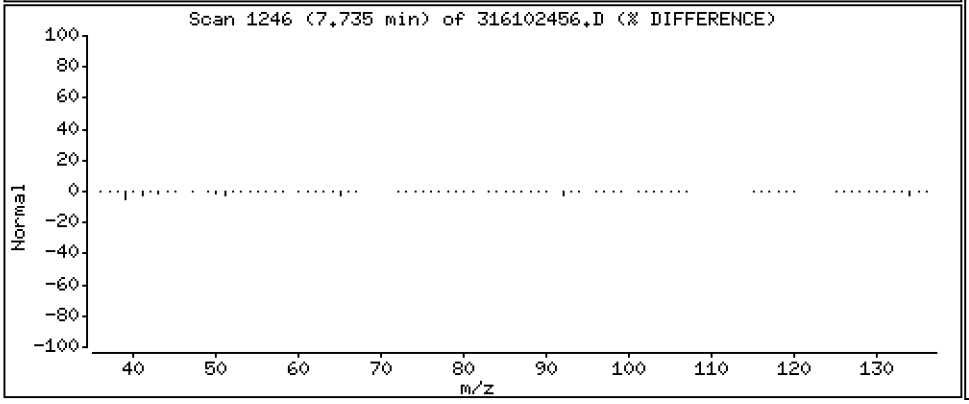












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 112

Date : 25-OCT-2016 00:30

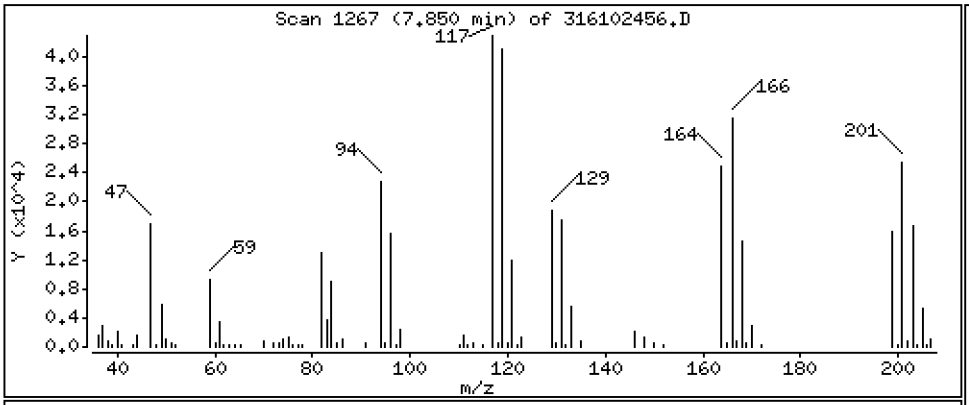
Client ID: Instrument: ms03.i

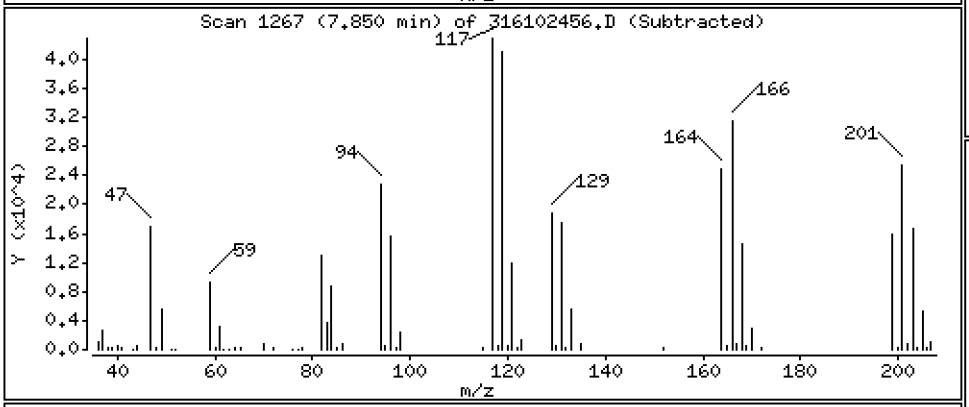
Sample Info: 1236;;1;1;3;;;

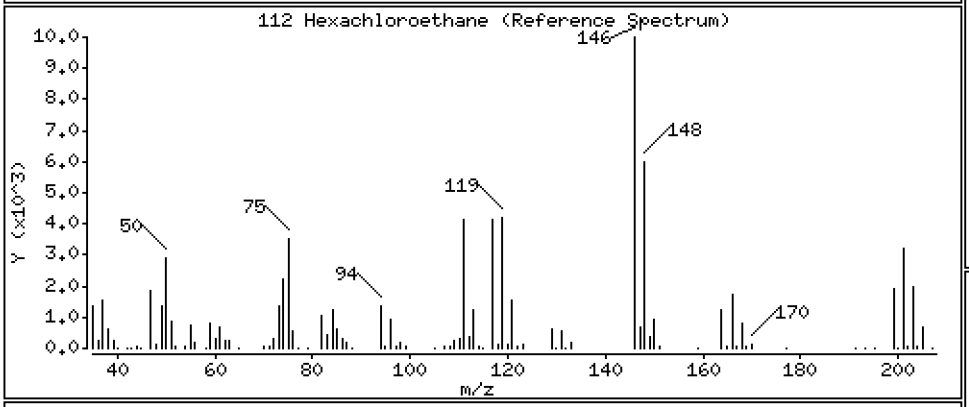
Purge Volume: 5.0 Operator: CJG

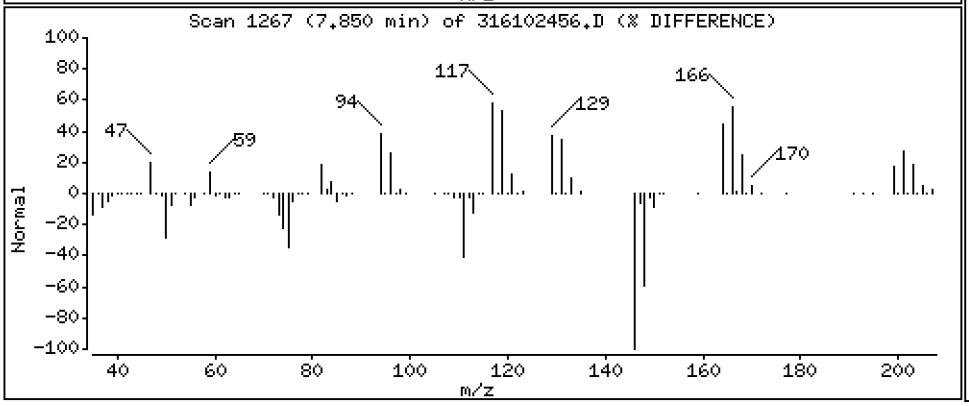
Column phase: DB-VRX Column diameter: 0.25

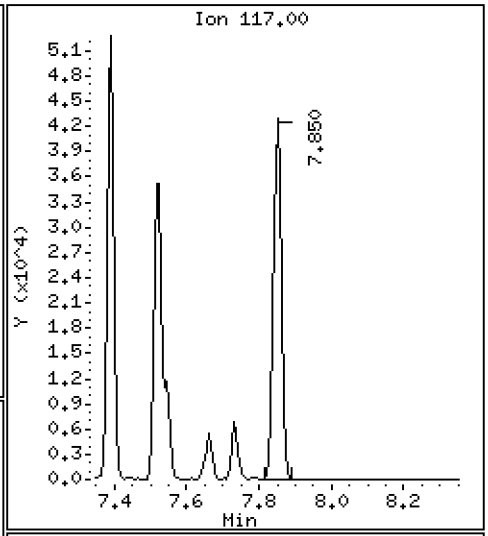
112 Hexachloroethane Concentration: 18.3778 ug/L

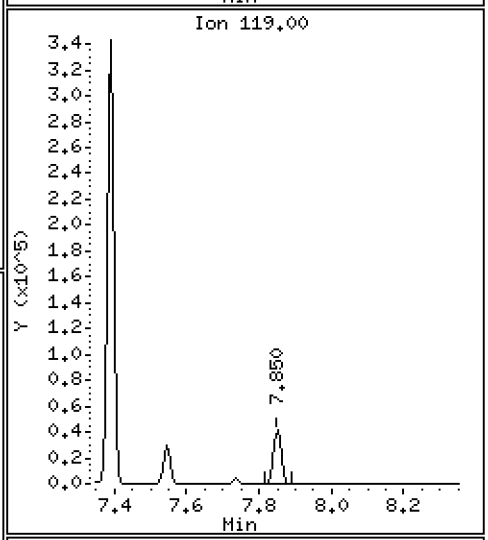


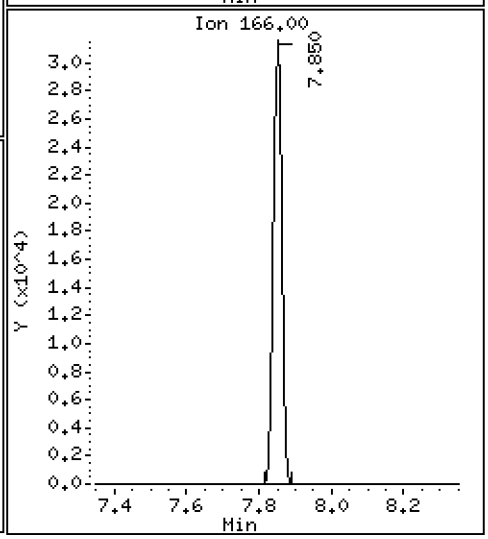












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 113

Date : 25-OCT-2016 00:30

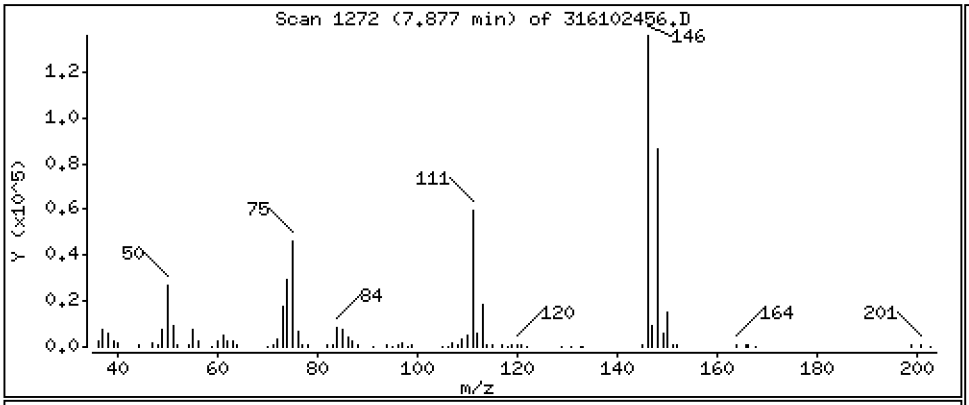
Client ID: Instrument: ms03.i

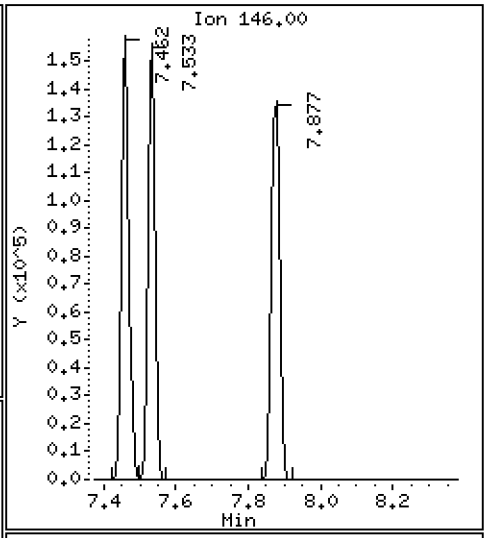
Sample Info: 1236;;1;1;3;;;

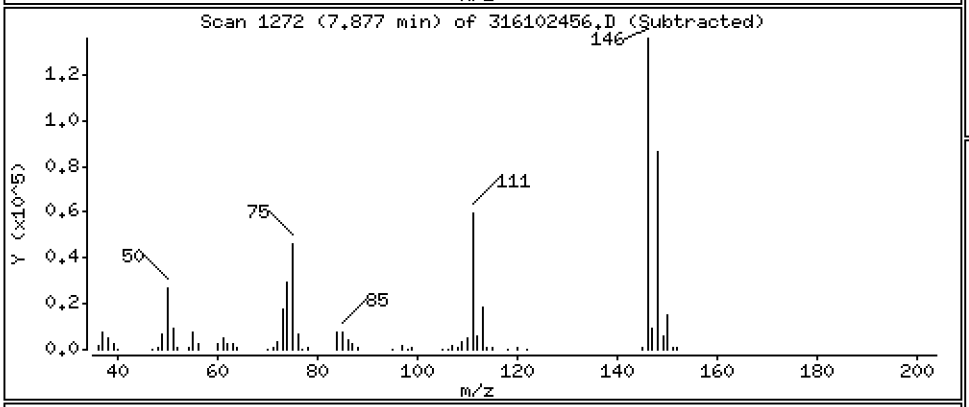
Purge Volume: 5.0 Operator: CJG

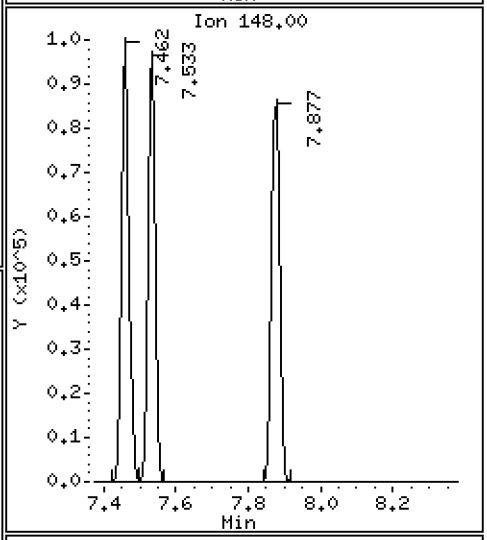
Column phase: DB-VRX Column diameter: 0.25

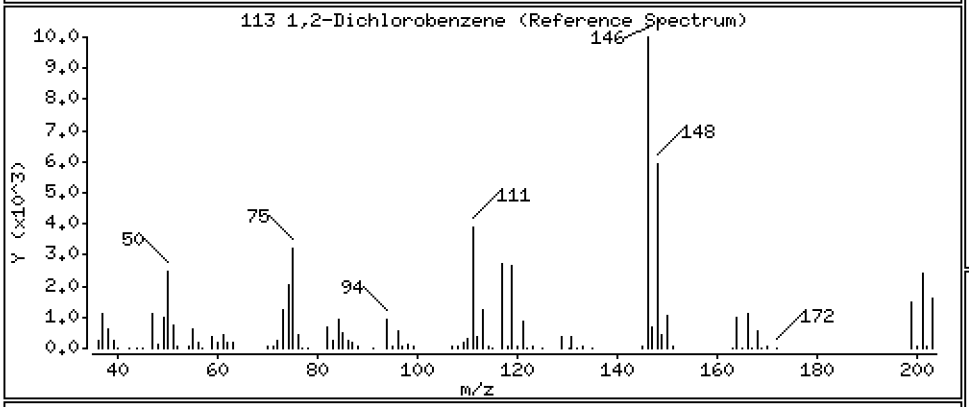
113 1,2-Dichlorobenzene Concentration: 20.4145 ug/L

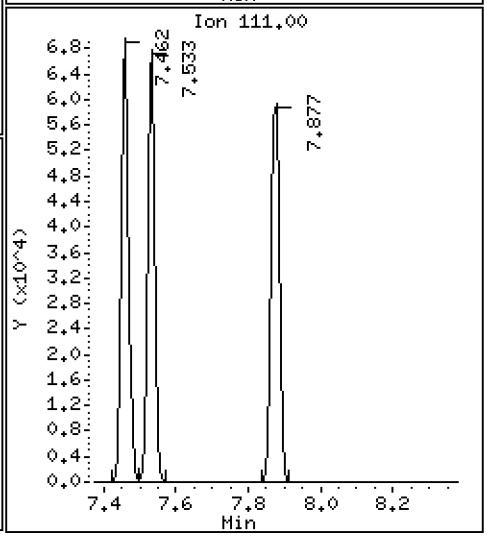


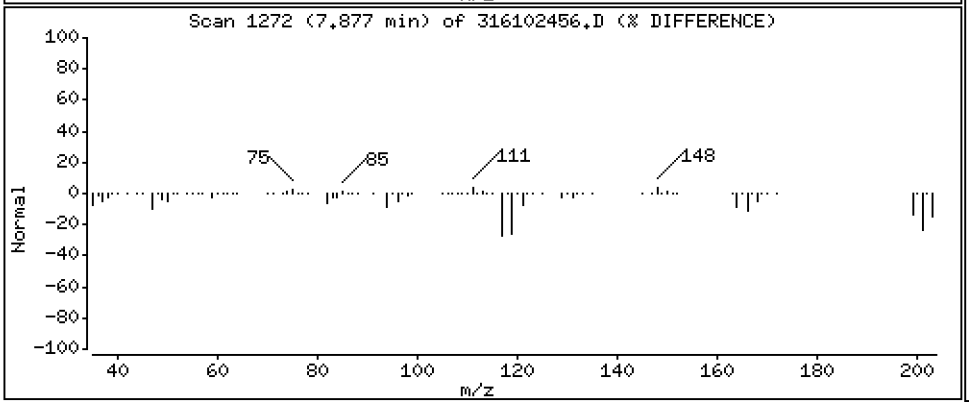












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 114

Date : 25-OCT-2016 00:30

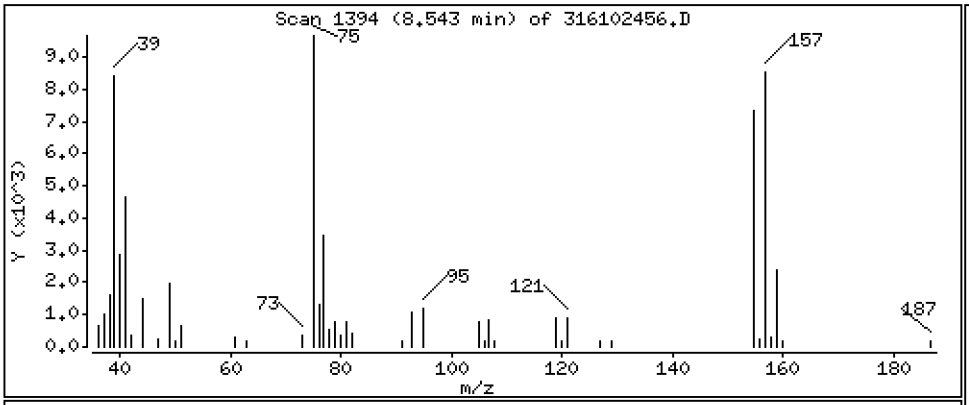
Client ID: Instrument: ms03.i

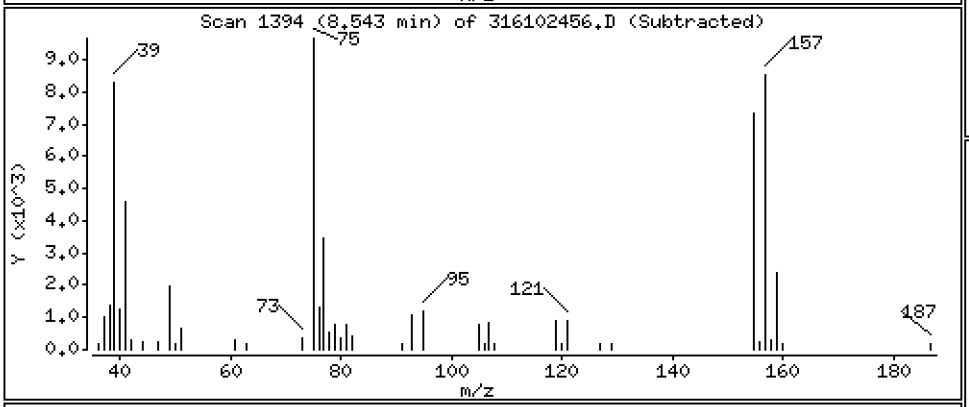
Sample Info: 1236;;1;1;3;;;

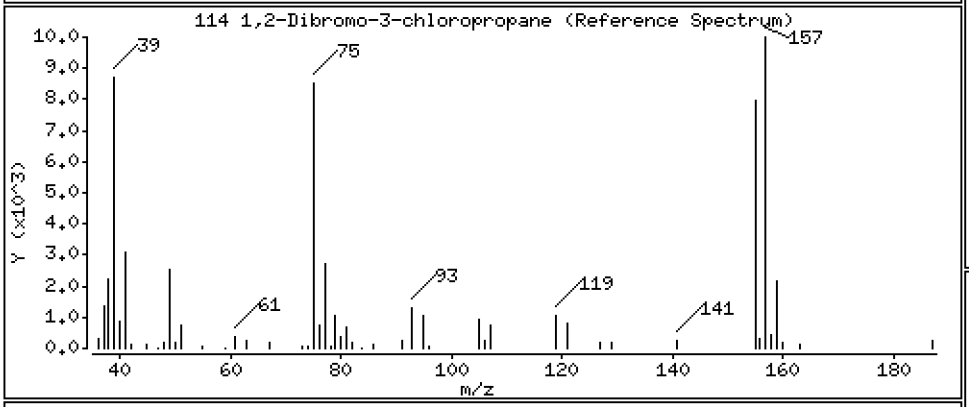
Purge Volume: 5.0 Operator: CJG

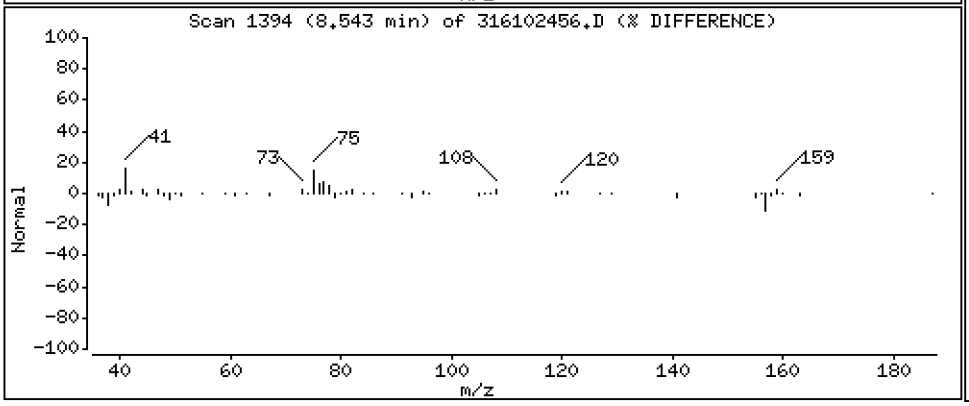
Column phase: DB-VRX Column diameter: 0.25

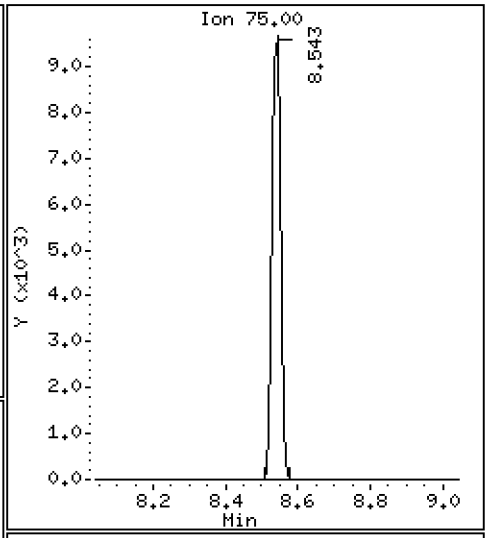
114 1,2-Dibromo-3-chloropropane Concentration: 18.4400 ug/L

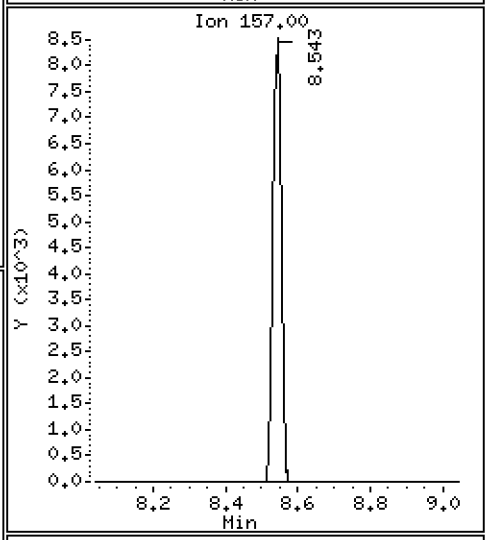


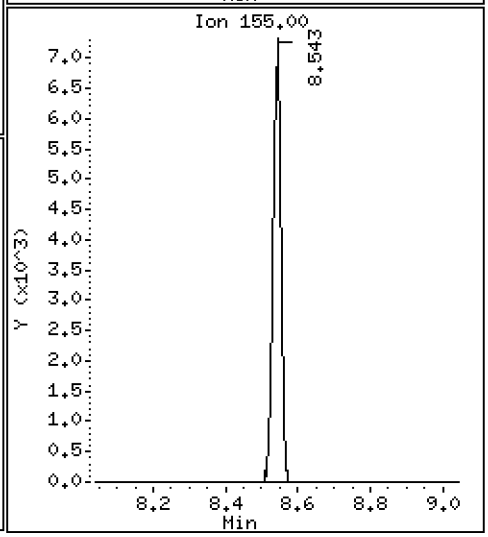












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 115

Date : 25-OCT-2016 00:30

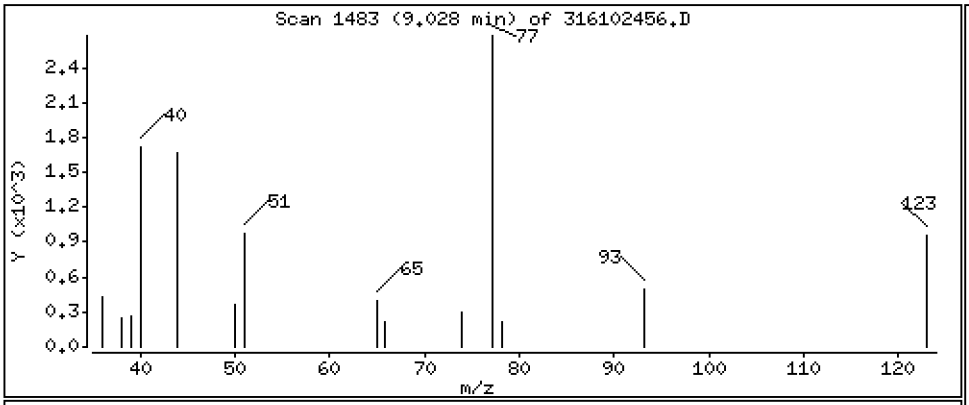
Client ID: Instrument: ms03.i

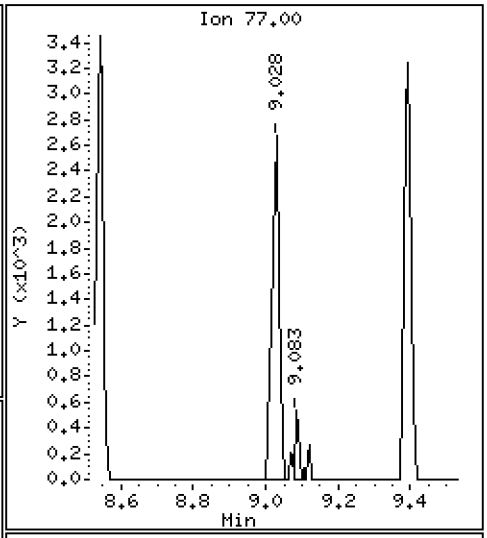
Sample Info: 1236;;1;1;3;;;

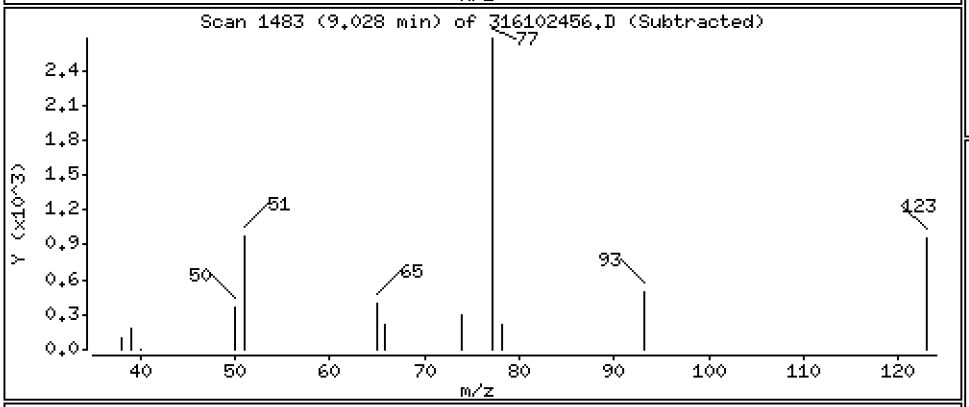
Purge Volume: 5.0 Operator: CJG

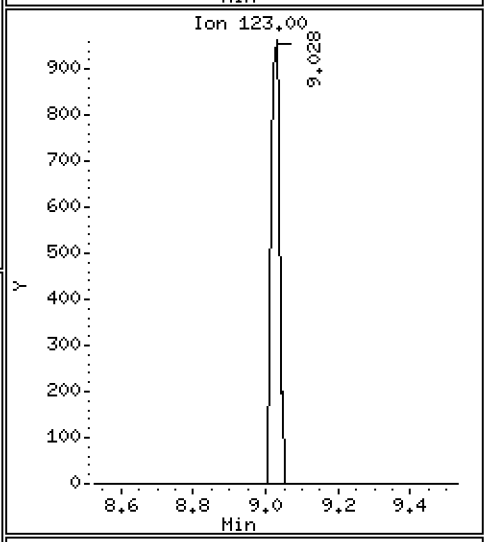
Column phase: DB-VRX Column diameter: 0.25

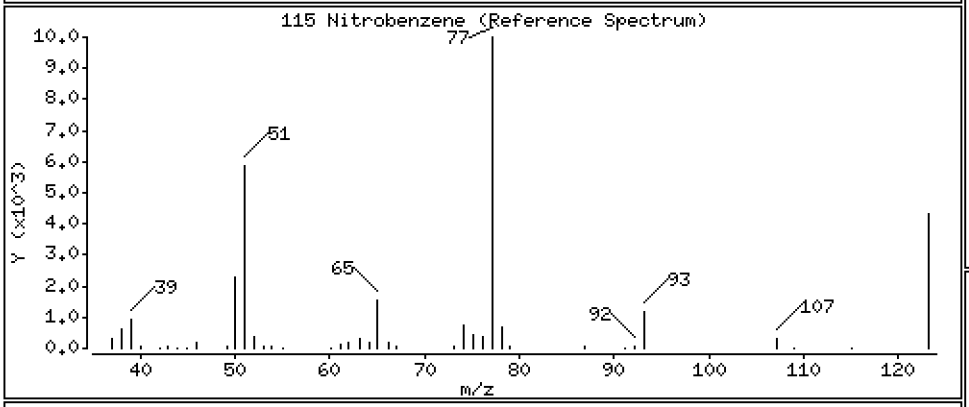
115 Nitrobenzene Concentration: 256.981 ug/L

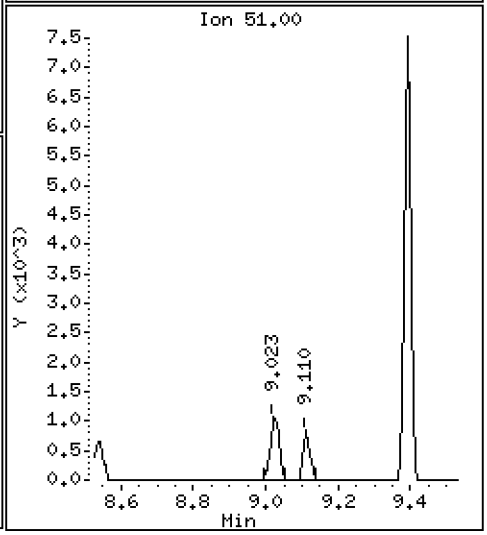


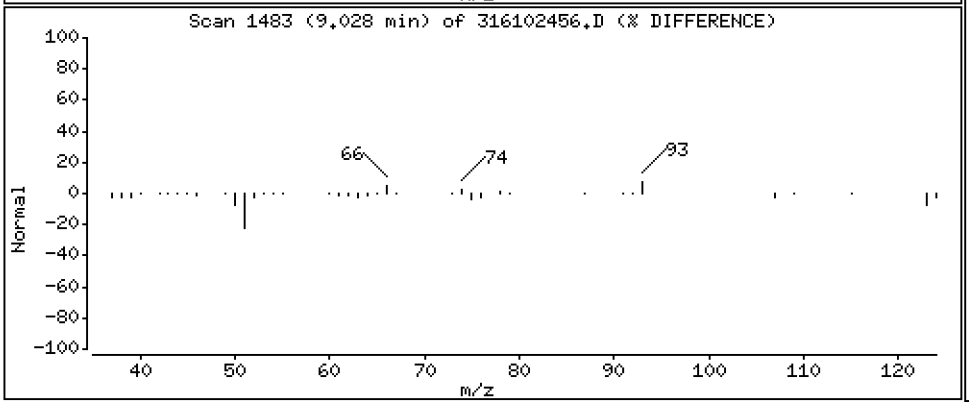












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 116

Date : 25-OCT-2016 00:30

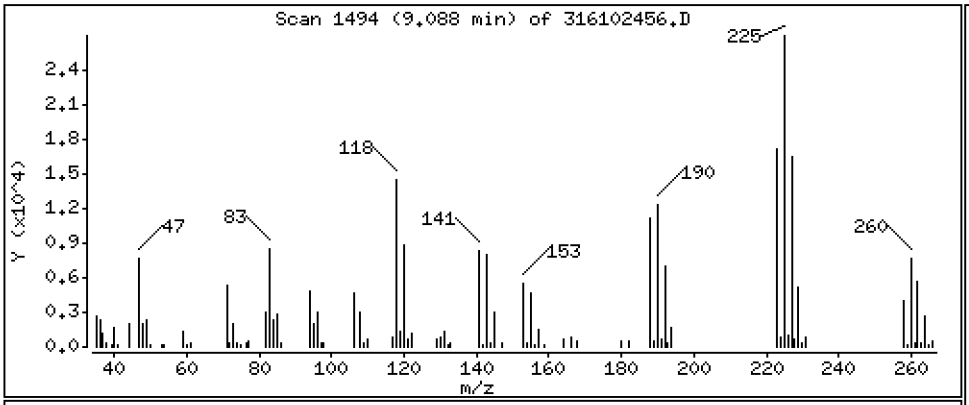
Client ID: Instrument: ms03.i

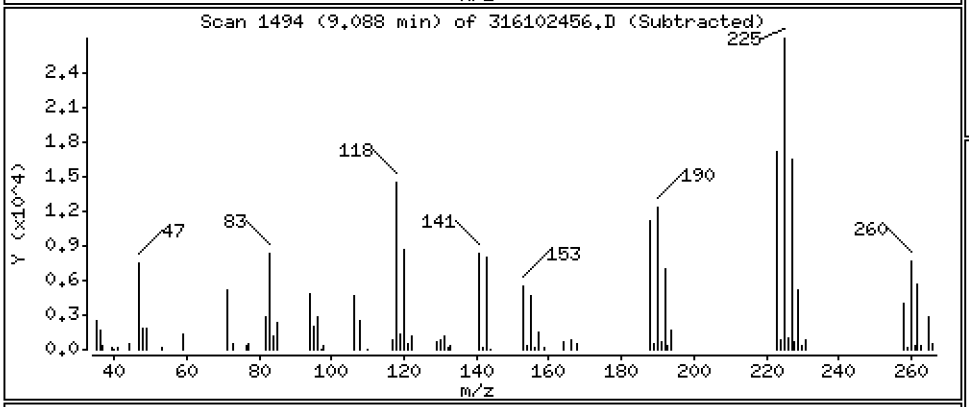
Sample Info: 1236;;1;1;3;;;

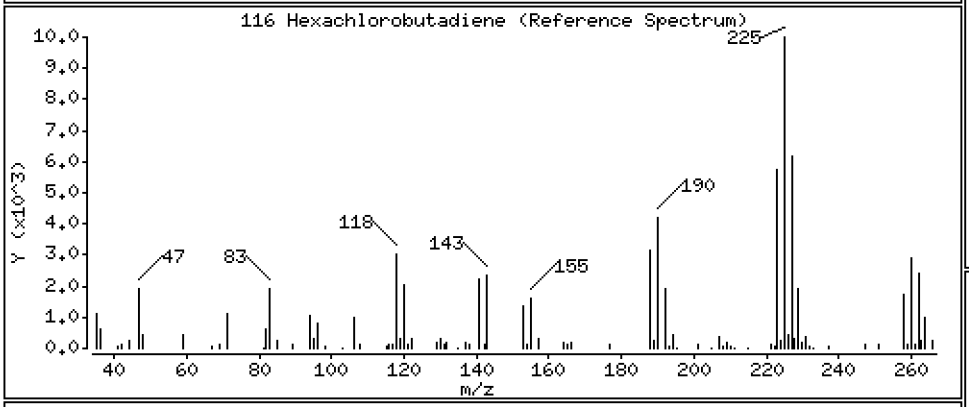
Purge Volume: 5.0 Operator: CJG

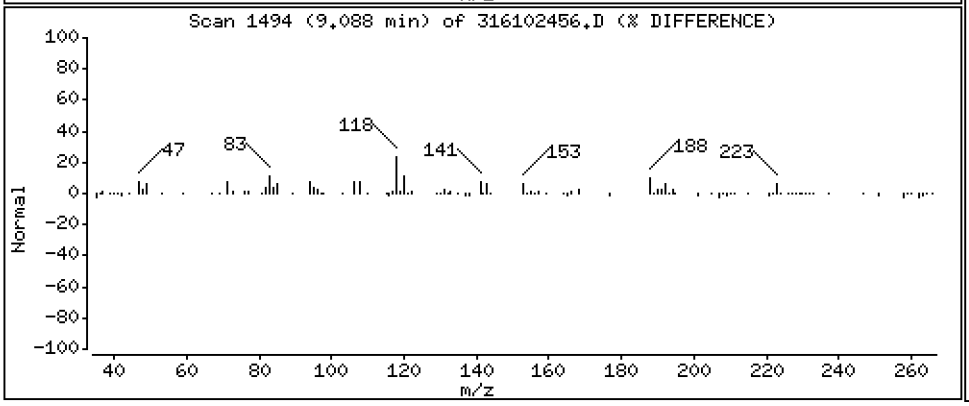
Column phase: DB-VRX Column diameter: 0.25

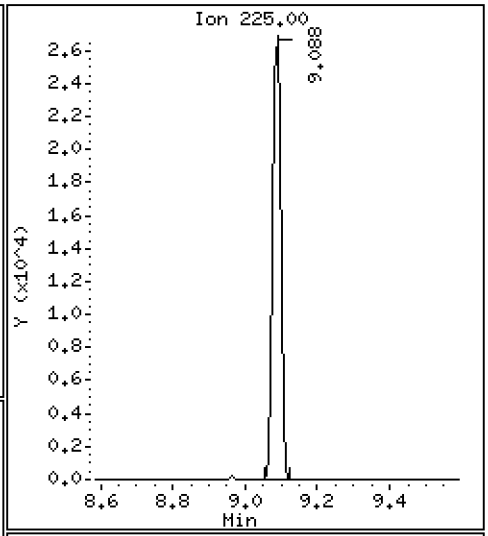
116 Hexachlorobutadiene Concentration: 20.8798 ug/L

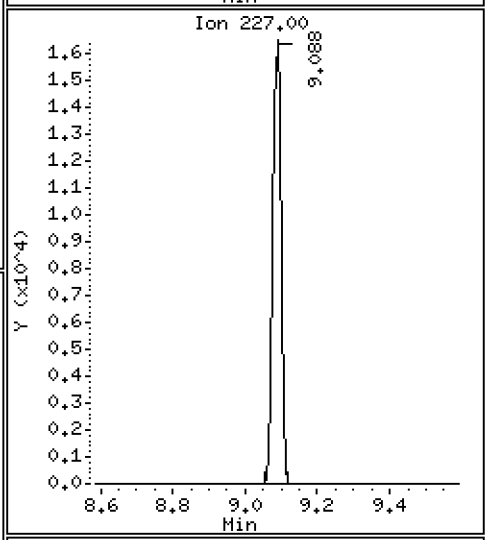


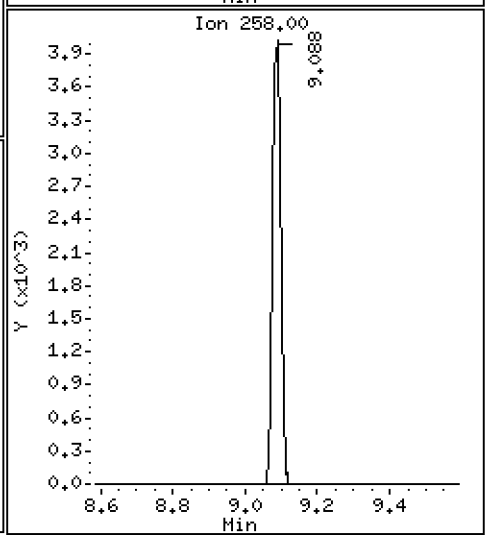












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 117

Date : 25-OCT-2016 00:30

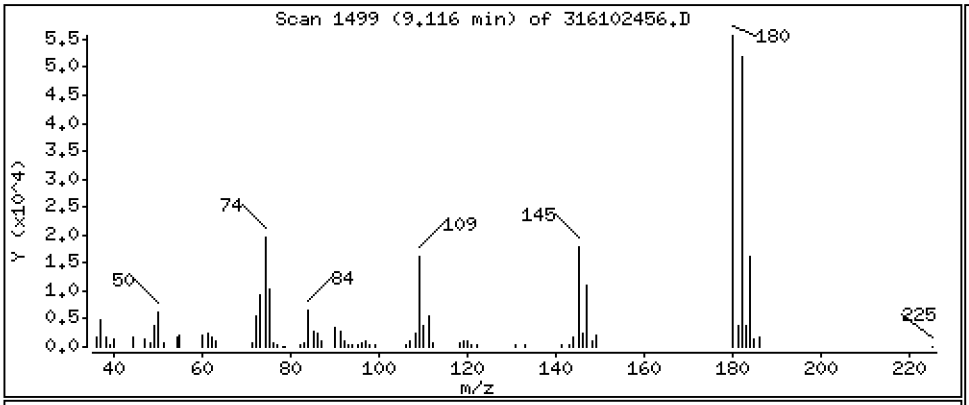
Client ID: Instrument: ms03.i

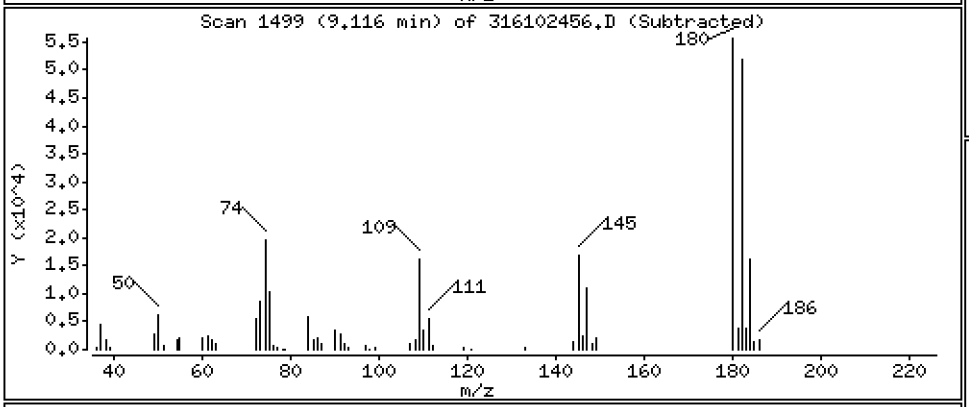
Sample Info: 1236;;1;1;3;;;

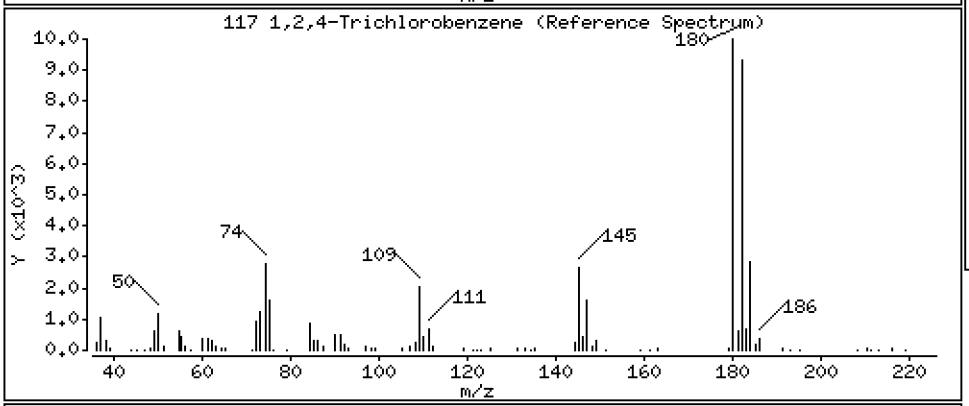
Purge Volume: 5.0 Operator: CJG

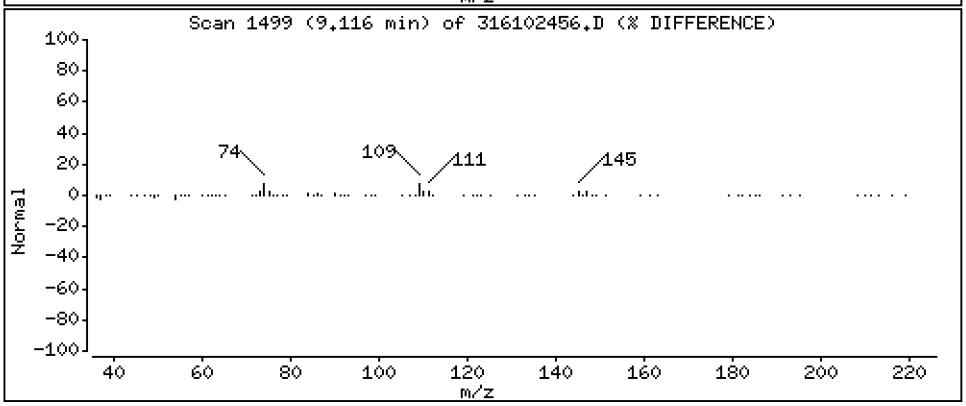
Column phase: DB-VRX Column diameter: 0.25

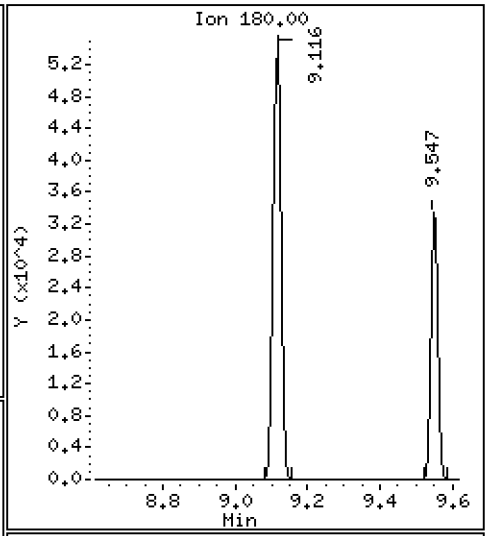
117 1,2,4-Trichlorobenzene Concentration: 18.3242 ug/L

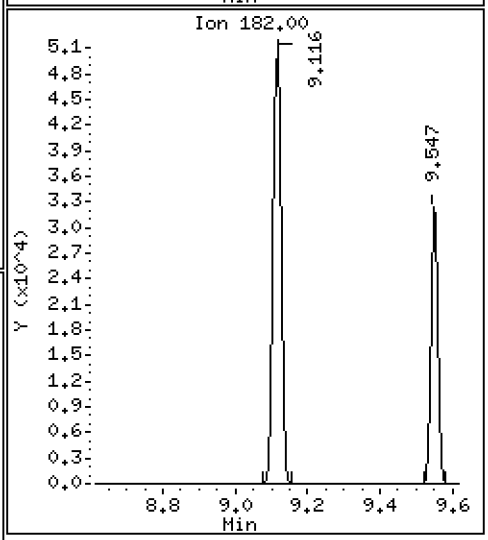












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 118

Date : 25-OCT-2016 00:30

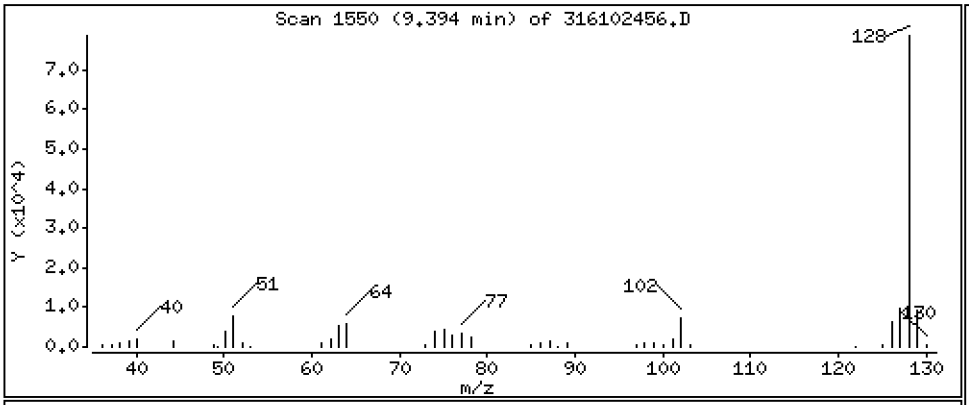
Client ID: Instrument: ms03.i

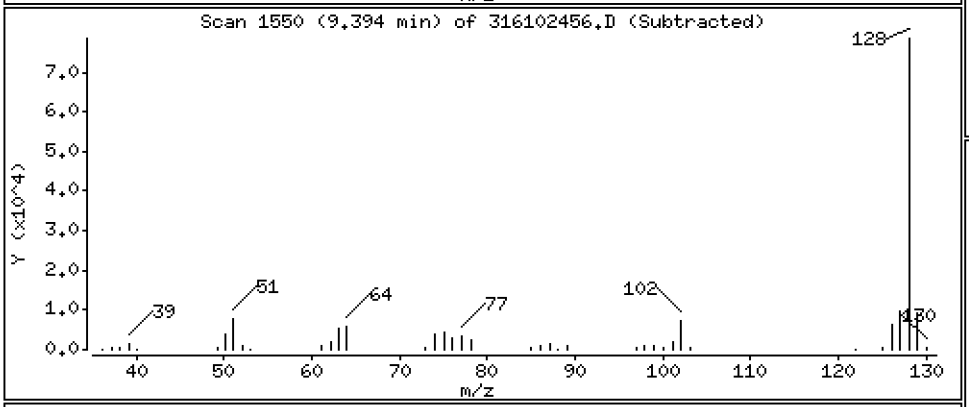
Sample Info: 1236;;1;1;3;;;

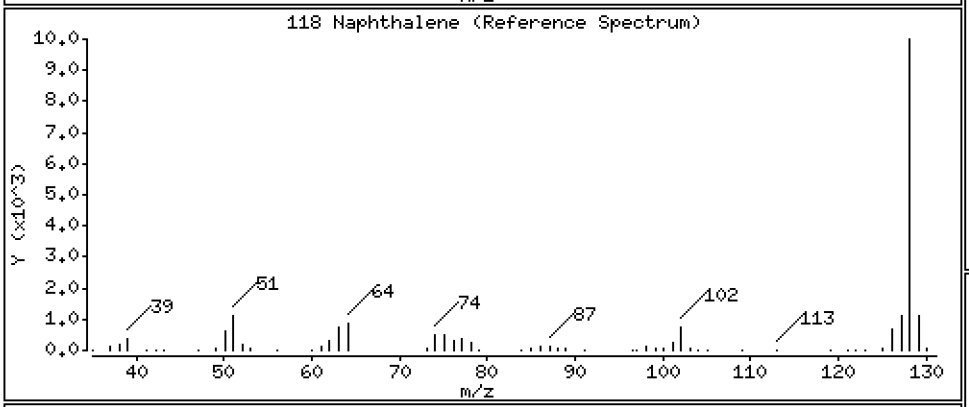
Purge Volume: 5.0 Operator: CJG

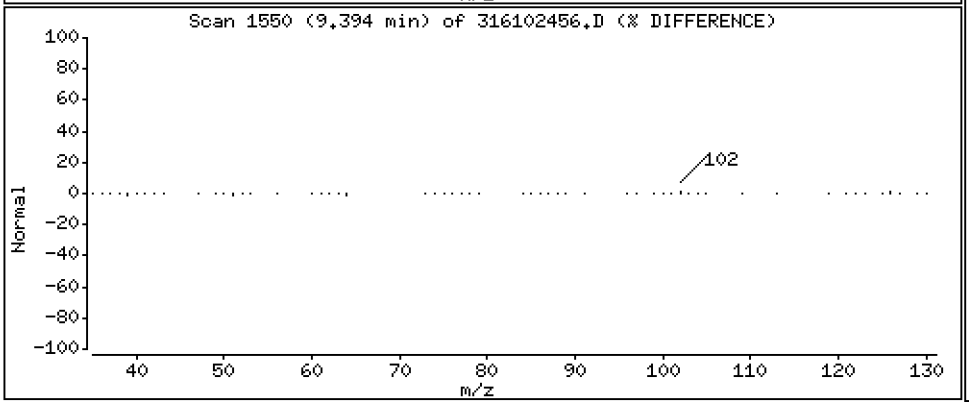
Column phase: DB-VRX Column diameter: 0.25

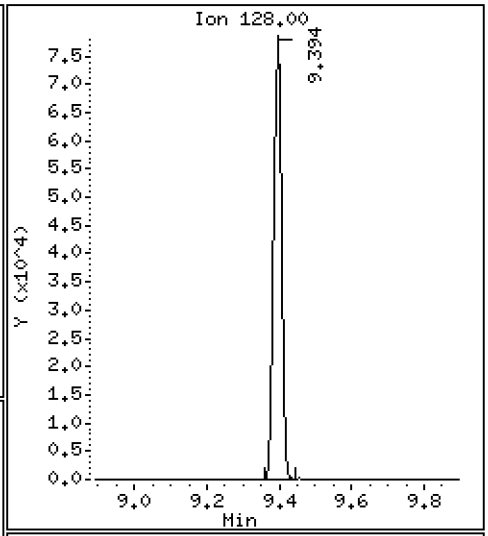
118 Naphthalene Concentration: 14.6181 ug/L

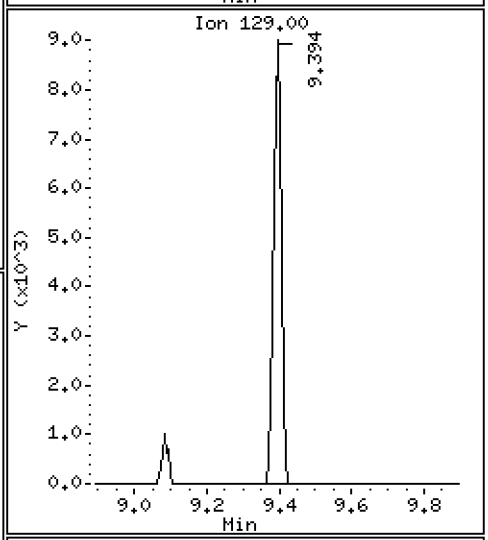


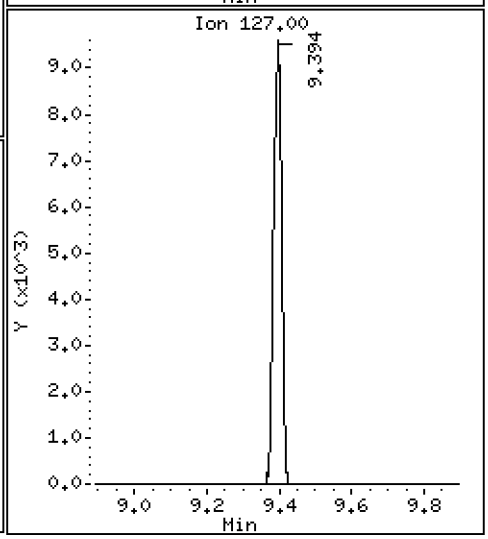












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 119

Date : 25-OCT-2016 00:30

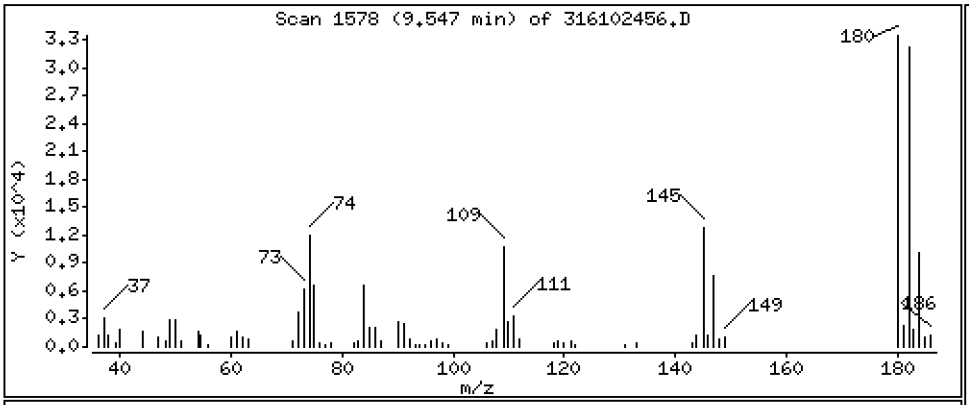
Client ID: Instrument: ms03.i

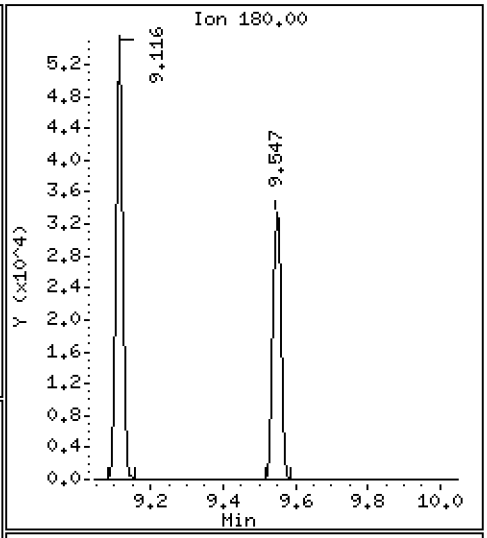
Sample Info: 1236;;1;1;3;;;

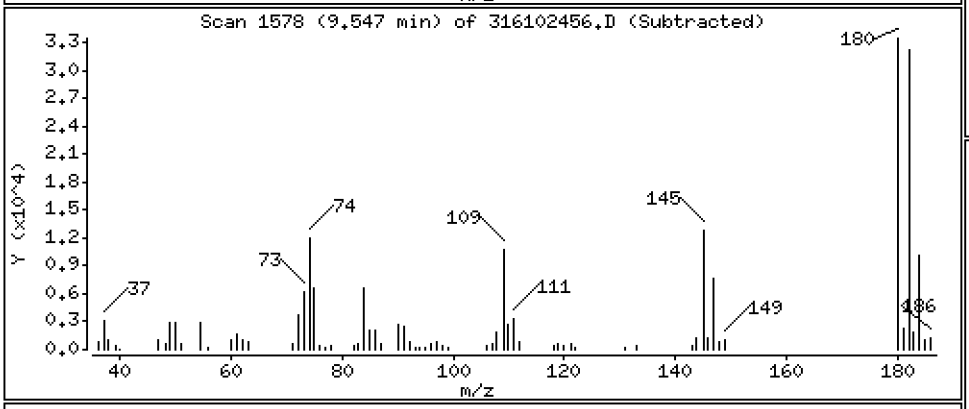
Purge Volume: 5.0 Operator: CJG

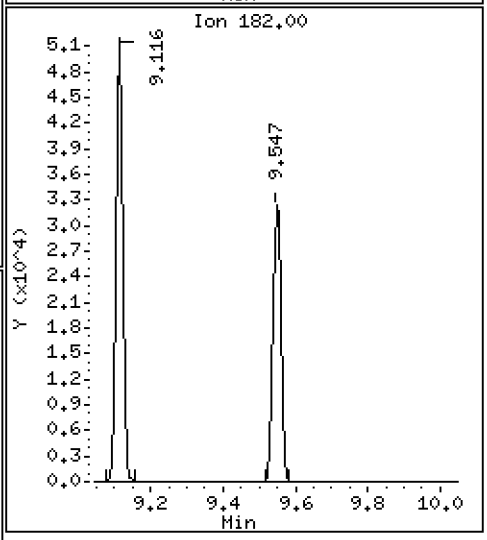
Column phase: DB-VRX Column diameter: 0.25

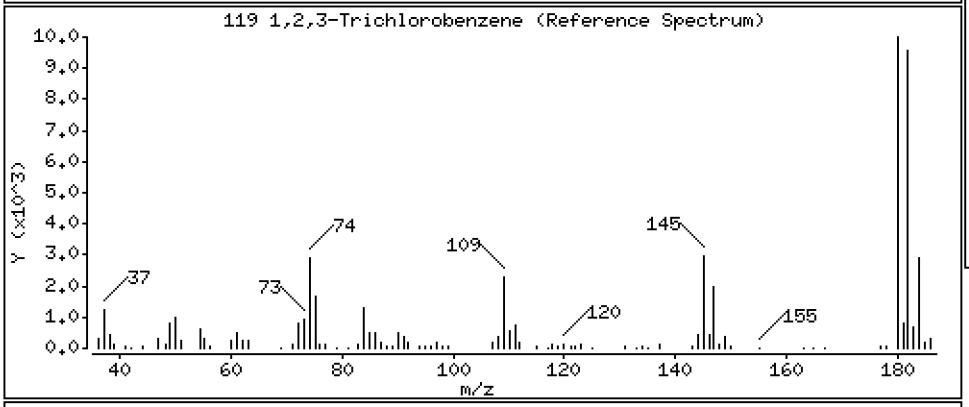
119 1,2,3-Trichlorobenzene Concentration: 18.4824 ug/L

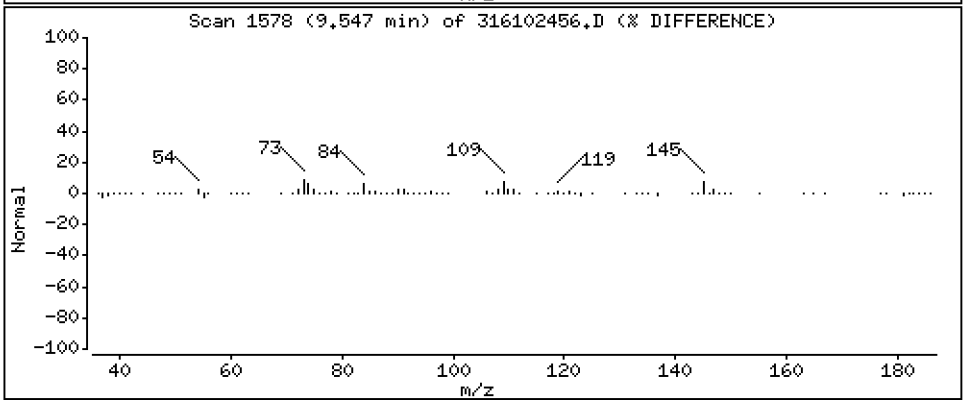








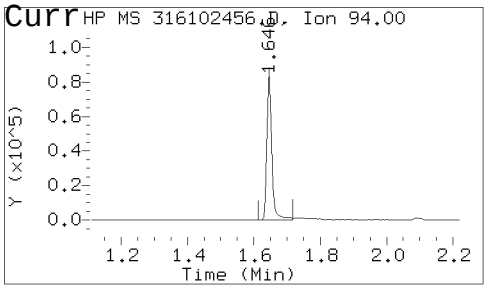


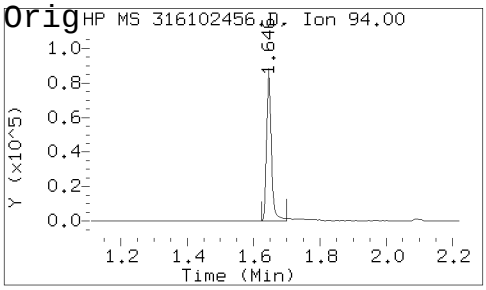


MANUAL INTEGRATION REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1236 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102456.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102456.D
Injection Date: 25-OCT-2016 00:30 Operator: CJG

Bromomethane

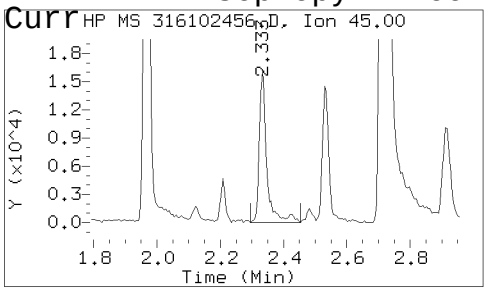


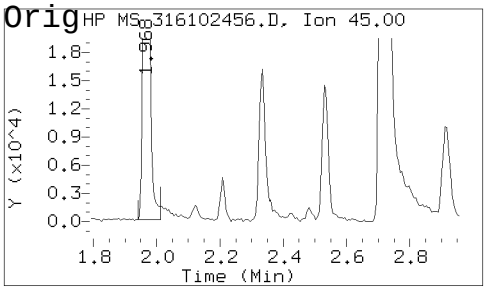


Curr. Area: 85332
Orig. Area: 84063

Curr. ON-COL: 20.7079
Orig. ON-COL: 16.2028

Isopropyl Alcohol

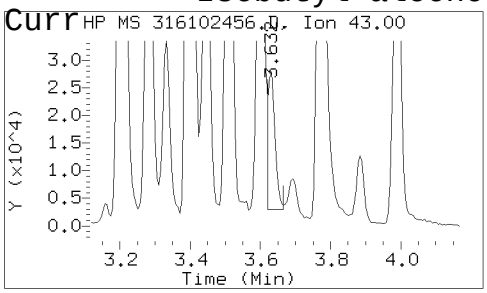


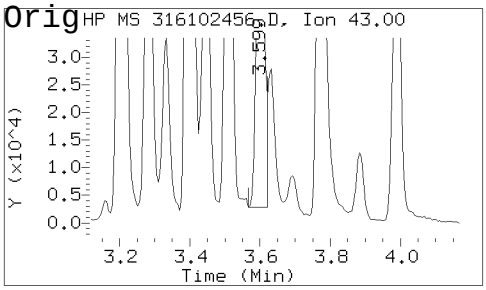


Curr. Area: 26915
Orig. Area: 114127

Curr. ON-COL: 102.011
Orig. ON-COL: 237.773

Isobutyl alcohol

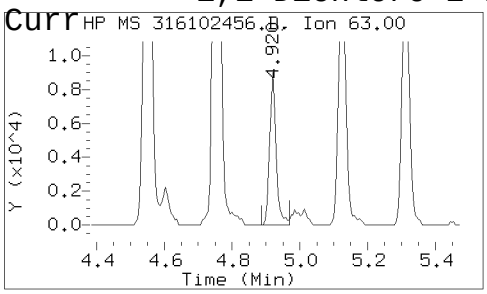


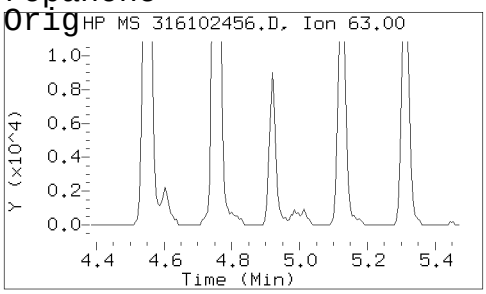


Curr. Area: 36016
Orig. Area: 120428

Curr. ON-COL: 218.271
Orig. ON-COL: 365.392

1,1-Dichloro-2-Propanone

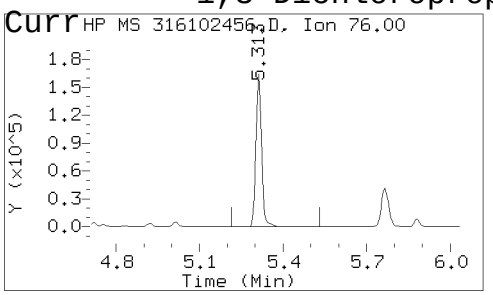


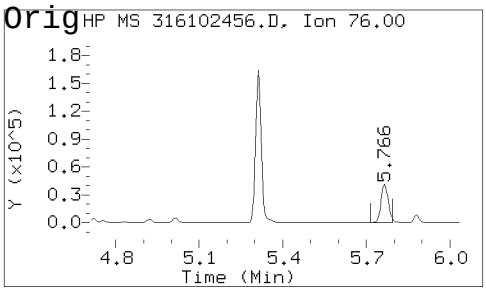


Curr. Area: 12224
Orig. Area: 0

Curr. ON-COL: 92.9587
Orig. ON-COL: 0.000000

1,3-Dichloropropane





Curr. Area: 233036
Orig. Area: 74592

Curr. ON-COL: 20.1134
Orig. ON-COL: 7.70992

UNASSIGNED PEAK REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1236 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102456.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102456.D
Injection Date: 25-OCT-2016 00:30 Operator: CJG

Data File: 316102457.D Page 1
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610245
Lab Smp Id: 1237
Inj Date : 25-OCT-2016 00:52
Operator : CJG Inst ID: ms03.i
Smp Info : 1237;;1;1;4;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b0
Meth Date : 25-Oct-2016 10:10 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 00:52 Cal File: 316102457.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: ALMDTW7062

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.259	(0.332)	604509	50.0000	49.1284	
2 Chloromethane	50	1.389	1.390	(0.367)	548264	50.0000	49.2994	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	622872	50.0000	49.0250	
4 Bromomethane	94	1.646	1.646	(0.434)	214551	50.0000	46.7273(M)	
5 Chloroethane	64	1.722	1.723	(0.454)	377249	50.0000	49.2161	
6 Pentane	41	1.793	1.794	(0.473)	326250	50.0000	49.2576	
7 Trichlorofluoromethane	101	1.804	1.799	(0.476)	661336	50.0000	49.7918	
8 Dichlorofluoromethane	67	1.831	1.826	(0.483)	830366	50.0000	49.4376	
9 Ethyl Ether	74	1.968	1.968	(0.519)	292497	50.0000	51.8611	
10 1,1-Dichloroethene	61	2.088	2.088	(0.551)	580548	50.0000	49.5928	
11 Freon 113	101	2.104	2.105	(0.555)	306743	50.0000	49.2609	
12 Carbon Disulfide	76	2.120	2.121	(0.560)	1028404	50.0000	48.4615	
13 Iodomethane	127	2.180	2.181	(0.575)	87895	50.0000	44.8691(M)	H
14 Acrolein	56	2.273	2.274	(0.600)	597096	500.000	503.843	
15 Isopropyl Alcohol	45	2.333	2.334	(0.616)	71076	250.000	262.088(M)	IH
16 3-Chloro-1-propene	41	2.344	2.345	(0.619)	533596	50.0000	48.5297	
17 Methylene Chloride	84	2.404	2.405	(0.634)	411186	50.0000	49.7290	
18 Acetone	58	2.426	2.427	(0.640)	157172	250.000	259.021	
19 Methyl acetate	74	2.480	2.481	(0.655)	64940	50.0000	51.5206	
20 trans-1,2-Dichloroethene	61	2.486	2.487	(0.656)	565467	50.0000	48.9962	
21 Hexane	57	2.519	2.519	(0.665)	798937	50.0000	48.6868	

Data File: 316102457.D Page 2
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.530	2.530	(0.667)	1065798	50.0000	50.2513	
	23 tert.- Butyl Alcohol	59	2.562	2.563	(0.676)	115099	250.000	249.972	
	24 Acetonitrile	41	2.682	2.683	(0.708)	191016	250.000	255.971	
	25 Diisopropyl ether	45	2.721	2.721	(0.718)	1434069	50.0000	49.8459	
	26 Chloroprene	53	2.797	2.798	(0.738)	586109	50.0000	49.6179	
	27 1,1-Dichloroethane	63	2.813	2.814	(0.742)	759304	50.0000	50.1512	
	28 Acrylonitrile	53	2.846	2.841	(0.751)	716761	250.000	250.124	
	29 Ethyl tert-butyl ether	59	2.912	2.912	(0.768)	1232428	50.0000	49.5113	
	30 n-Propanol	41	2.912	2.912	(0.768)	270517	500.000	499.266(a)	
	31 Vinyl Acetate	86	2.928	2.929	(0.773)	84581	50.0000	49.6409	
	32 cis-1,2-Dichloroethene	61	3.097	3.098	(0.817)	584868	50.0000	49.9502	
	33 2,2-Dichloropropane	77	3.163	3.158	(0.834)	485464	50.0000	49.1882	
	34 Bromochloromethane	128	3.206	3.207	(0.846)	167569	50.0000	48.3446	
	35 Cyclohexane	84	3.212	3.212	(0.847)	569743	50.0000	49.0909	
	36 Chloroform	83	3.233	3.234	(0.853)	740177	50.0000	50.0466	
	37 Ethyl Acetate	43	3.283	3.278	(0.866)	373747	50.0000	51.2737	
	38 Methyl acrylate	55	3.293	3.294	(0.869)	350736	50.0000	50.2316	
	39 Carbon Tetrachloride	117	3.326	3.321	(0.878)	399016	50.0000	49.1660	
	40 Tetrahydrofuran	42	3.332	3.327	(0.879)	571135	250.000	257.770	
$	41 Dibromofluoromethane	113	3.337	3.338	(0.881)	311950	50.0000	49.8272	
	42 1,1,1-Trichloroethane	97	3.359	3.360	(0.886)	534736	50.0000	48.5141	
	43 2-Butanone	72	3.397	3.398	(0.896)	242560	250.000	259.022	
	44 1,1-Dichloropropene	75	3.424	3.425	(0.904)	547661	50.0000	49.6954	
	45 1-Chlorobutane	41	3.446	3.447	(0.909)	439659	50.0000	49.6444	
	46 Heptane	71	3.512	3.512	(0.927)	243123	50.0000	46.9197	
	47 Benzene	78	3.561	3.567	(0.940)	1728908	50.0000	49.9488	
	48 Propionitrile	54	3.577	3.578	(0.944)	270956	250.000	257.569	
	49 Methacrylonitrile	67	3.588	3.583	(0.947)	165533	50.0000	51.2907	
	50 tert-Amyl methyl ether	73	3.599	3.600	(0.950)	973407	50.0000	49.5983	
$	51 1,2-Dichloroethane-d4	65	3.637	3.638	(0.960)	432919	50.0000	52.3714	
	52 1,2-Dichloroethane	62	3.675	3.676	(0.970)	518349	50.0000	50.0493	
	53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	98439	250.000	258.795	
	54 Isobutyl alcohol	43	3.632	3.632	(0.958)	105297	500.000	554.161(M)	
*	55 Fluorobenzene	96	3.790	3.791	(1.000)	1013164	30.0000		
	56 Diisobutylene	57	3.795	3.796	(1.001)	1002264	50.0000	48.1486	
	57 Trichloroethene	95	3.883	3.883	(1.024)	387285	50.0000	49.6362	
	58 Methyl cyclohexane	83	3.883	3.883	(0.674)	605169	50.0000	49.0502	
	59 tert-Amyl Ethylether	59	3.992	3.987	(1.053)	885470	50.0000	49.1298	
	60 Dibromomethane	93	4.139	4.139	(1.092)	216754	50.0000	49.5857	
	61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	444932	50.0000	49.6392	
	62 Bromodichloromethane	83	4.221	4.222	(1.114)	476823	50.0000	49.7277	
	63 Methyl methacrylate	41	4.292	4.293	(1.132)	335247	50.0000	49.4509	
	64 1,4-Dioxane	88	4.336	4.336	(1.144)	41985	1250.00	1304.81	
	65 2-Chloroethylvinyl ether	63	4.548	4.549	(1.200)	204686	50.0000	49.5586	
	66 cis-1,3-Dichloropropene	75	4.603	4.604	(0.799)	622591	50.0000	49.3887	
	67 Octane	85	4.608	4.609	(0.800)	161179	50.0000	46.7771	
$	68 Toluene-d8	98	4.723	4.724	(0.820)	1337772	50.0000	49.8375	
	69 Toluene	92	4.756	4.756	(0.826)	975477	50.0000	50.2185	
	70 Chloroacetonitrile	48	4.827	4.833	(0.838)	48185	250.000	256.720	
	71 2-Nitropropane	41	4.909	4.909	(0.852)	396365	250.000	257.525	
	72 1,1-Dichloro-2-Propanone	63	4.919	4.920	(0.854)	36699	250.000	257.360	
	73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.986	(0.865)	1932929	250.000	256.899	
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	254146	50.0000	50.5599	
	75 trans-1,3-Dichloropropene	75	5.012	5.013	(0.870)	547073	50.0000	49.5767	

Data File: 316102457.D Page 3
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.094	5.095	(0.884)	511373	50.0000	50.2242	
	77 1,1,2-Trichloroethane	83	5.121	5.122	(0.889)	285720	50.0000	50.5445	
	78 Chlorodibromomethane	129	5.247	5.247	(0.911)	288610	50.0000	49.3791	
	79 1,3-Dichloropropane	76	5.312	5.313	(0.922)	617496	50.0000	50.7518(M)	IH
	80 1,2-Dibromoethane	107	5.421	5.422	(0.941)	294636	50.0000	50.0352	
	81 2-Hexanone	43	5.541	5.542	(0.962)	1256478	250.000	255.973	
	82 1-Chlorohexane	91	5.738	5.739	(0.996)	479440	50.0000	47.2656	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	432864	30.0000		
	84 Chlorobenzene	112	5.771	5.777	(1.002)	962913	50.0000	50.0179	
	85 Ethylbenzene	106	5.782	5.782	(1.004)	528841	50.0000	49.7156	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.815	(1.009)	286379	50.0000	49.6438	
	87 mp-Xylene	106	5.880	5.880	(1.021)	1284852	100.000	99.5592	
	88 o-Xylene	106	6.196	6.197	(1.076)	598592	50.0000	49.1045	
	89 Styrene	104	6.234	6.235	(0.829)	1006811	50.0000	49.0855	
	90 Bromoform	173	6.262	6.262	(0.832)	129434	50.0000	49.1427	
	91 Isopropylbenzene	105	6.425	6.426	(0.854)	1529344	50.0000	48.9168	
$	92 4-Bromofluorobenzene	174	6.649	6.650	(0.884)	273260	50.0000	48.2809	
	93 Bromobenzene	156	6.731	6.732	(0.895)	314214	50.0000	49.2609	
	94 n-Propylbenzene	120	6.736	6.737	(0.896)	393218	50.0000	48.9344	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.792	(0.903)	380909	50.0000	50.6198	
	96 o-Chlorotoluene	91	6.867	6.868	(0.913)	1202947	50.0000	48.9687	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.915)	1176337	50.0000	48.8489	
	98 1,2,3-Trichloropropane	110	6.906	6.906	(0.918)	110760	50.0000	50.6977	
	99 trans-1,4-Dichloro-2-butene	53	6.933	6.933	(0.922)	101545	50.0000	49.3615	
M	100 1,2-Dichloroethene, Total	61				1150335	100.000	98.9464	
	101 p-Chlorotoluene	91	6.993	6.994	(0.930)	1101498	50.0000	48.7605	
	102 tert-Butylbenzene	134	7.140	7.141	(0.949)	252111	50.0000	48.5825	
	103 Pentachloroethane	117	7.162	7.163	(0.952)	218721	50.0000	48.6575	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.956)	1170245	50.0000	48.7715	
	105 sec-Butylbenzene	105	7.277	7.277	(0.967)	1401051	50.0000	48.1786	
	106 p-Isopropyltoluene	134	7.391	7.392	(0.983)	280188	50.0000	48.3429	
	107 1,3-Dichlorobenzene	146	7.462	7.463	(0.992)	551580	50.0000	48.4938	
*	108 1,4-Dichlorobenzene-d4	152	7.522	7.523	(1.000)	273837	30.0000		
	109 1,4-Dichlorobenzene	146	7.533	7.534	(1.001)	561432	50.0000	48.8968	
	110 Benzyl Chloride	126	7.735	7.736	(1.028)	75313	50.0000	48.1619	
	111 n-Butylbenzene	134	7.735	7.736	(1.028)	236744	50.0000	47.9123	
	112 Hexachloroethane	117	7.850	7.850	(1.044)	162166	50.0000	47.1132	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.047)	502959	50.0000	49.1431	
	114 1,2-Dibromo-3-chloropropane	75	8.542	8.542	(1.136)	43484	50.0000	50.4790	
	115 Nitrobenzene	77	9.023	9.029	(1.199)	19403	500.000	575.592	
	116 Hexachlorobutadiene	225	9.088	9.089	(1.208)	91411	50.0000	47.9736	
	117 1,2,4-Trichlorobenzene	180	9.115	9.116	(1.212)	216240	50.0000	49.3009	
	118 Naphthalene	128	9.394	9.394	(1.249)	415226	50.0000	50.5177	
	119 1,2,3-Trichlorobenzene	180	9.546	9.547	(1.269)	146462	50.0000	51.7359	
M	120 1,3-Dichloropropene, Total	75				1169664	100.000	98.9654	
M	121 Total Xylenes	106				1883444	150.000	148.664	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: 316102457.D Page 4
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 25-OCT-2016
Lab File ID: 316102457.D Calibration Time: 00:52
Lab Smp Id: 1237
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: CJG
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	1013164	0.00
83 Chlorobenzene-d5	432864	216432	865728	432864	0.00
108 1,4-Dichlorobenze	273837	136919	547674	273837	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102457.D Page 5
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1237
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	49.1284	
74-87-3	Chloromethane	49.2994	
75-01-4	Vinyl Chloride	49.0250	
74-83-9	Bromomethane	46.7273	
75-00-3	Chloroethane	49.2161	
109-66-0	Pentane	49.2576	
75-69-4	Trichlorofluoromethane	49.7918	
75-43-4	Dichlorofluoromethane	49.4376	
60-29-7	Ethyl Ether	51.8611	
75-35-4	1,1-Dichloroethene	49.5928	
76-13-1	Freon 113	49.2609	
75-15-0	Carbon Disulfide	48.4615	
74-88-4	Iodomethane	44.8691	
107-02-8	Acrolein	503.843	
67-63-0	Isopropyl Alcohol	262.088	
107-05-1	3-Chloro-1-propene	48.5297	
75-09-2	Methylene Chloride	49.7290	
67-64-1	Acetone	259.021	
79-20-9	Methyl acetate	51.5206	
156-60-5	trans-1,2-Dichloroethene	48.9962	
110-54-3	Hexane	48.6868	
1634-04-4	Methyl t-Butyl Ether	50.2513	
75-65-0	tert.- Butyl Alcohol	249.972	
75-05-8	Acetonitrile	255.971	
108-20-3	Diisopropyl ether	49.8459	
126-99-8	Chloroprene	49.6179	
75-34-3	1,1-Dichloroethane	50.1512	
107-13-1	Acrylonitrile	250.124	
637-92-3	Ethyl tert-butyl ether	49.5113	
71-23-8	n-Propanol	499.266	J
108-05-4	Vinyl Acetate	49.6409	
156-59-2	cis-1,2-Dichloroethene	49.9502	
594-20-7	2,2-Dichloropropane	49.1882	
74-97-5	Bromochloromethane	48.3446	
110-82-7	Cyclohexane	49.0909	
67-66-3	Chloroform	50.0466	
141-78-6	Ethyl Acetate	51.2737	
96-33-3	Methyl acrylate	50.2316	
56-23-5	Carbon Tetrachloride	49.1660	
109-99-9	Tetrahydrofuran	257.770	
71-55-6	1,1,1-Trichloroethane	48.5141	
78-93-3	2-Butanone	259.022	

Data File: 316102457.D Page 6
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1237
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
563-58-6	1,1-Dichloropropene	49.6954	
109-69-3	1-Chlorobutane	49.6444	
142-82-5	Heptane	46.9197	
71-43-2	Benzene	49.9488	
107-12-0	Propionitrile	257.569	
126-98-7	Methacrylonitrile	51.2907	
994-05-8	tert-Amyl methyl ether	49.5983	
107-06-2	1,2-Dichloroethane	50.0493	
75-85-4	tert-Amyl Alcohol	258.795	
78-83-1	Isobutyl alcohol	554.161	
107-39-1	Diisobutylene	48.1486	
79-01-6	Trichloroethene	49.6362	
108-87-2	Methyl cyclohexane	49.0502	
919-94-8	tert-Amyl Ethylether	49.1298	
74-95-3	Dibromomethane	49.5857	
78-87-5	1,2-Dichloropropane	49.6392	
75-27-4	Bromodichloromethane	49.7277	
80-62-6	Methyl methacrylate	49.4509	
123-91-1	1,4-Dioxane	1304.81	
110-75-8	2-Chloroethylvinyl ether	49.5586	
10061-01-5	cis-1,3-Dichloropropene	49.3887	
111-65-9	Octane	46.7771	
108-88-3	Toluene	50.2185	
107-14-2	Chloroacetonitrile	256.720	
79-46-9	2-Nitropropane	257.525	
513-88-2	1,1-Dichloro-2-Propanone	257.360	
108-10-1	4-Methyl-2-Pentanone(MIBK)	256.899	
127-18-4	Tetrachloroethene	50.5599	
10061-02-6	trans-1,3-Dichloropropene	49.5767	
97-63-2	Ethyl Methacrylate	50.2242	
79-00-5	1,1,2-Trichloroethane	50.5445	
124-48-1	Chlorodibromomethane	49.3791	
142-28-9	1,3-Dichloropropane	50.7518	
106-93-4	1,2-Dibromoethane	50.0352	
591-78-6	2-Hexanone	255.973	
544-10-5	1-Chlorohexane	47.2656	
108-90-7	Chlorobenzene	50.0179	
100-41-4	Ethylbenzene	49.7156	
630-20-6	1,1,1,2-Tetrachloroethane	49.6438	
108383/106423	m-p-Xylene	99.5592	
95-47-6	o-Xylene	49.1045	
100-42-5	Styrene	49.0855	

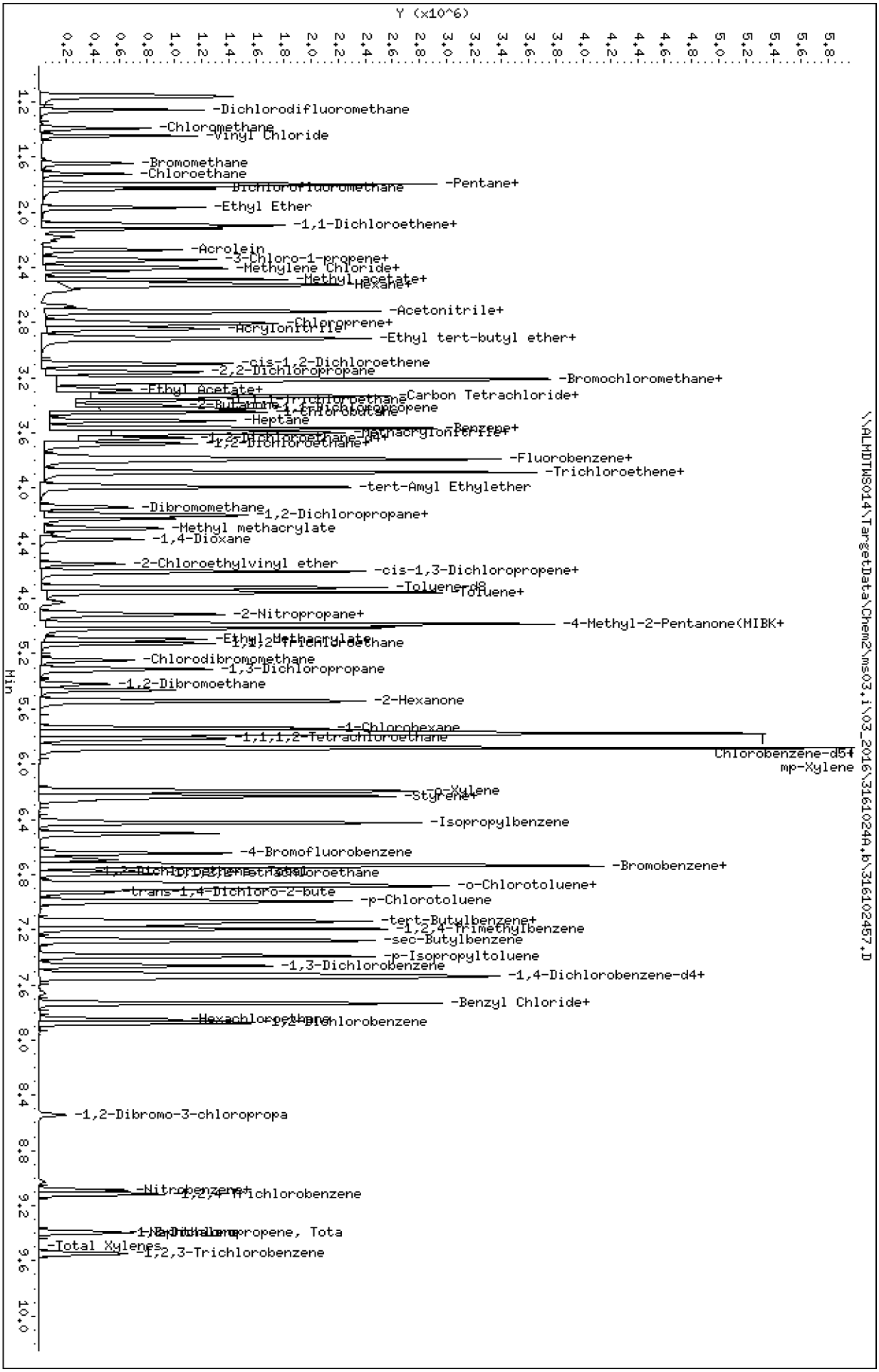
Data File: 316102457.D Page 7
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1237
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-25-2	Bromoform	49.1427	
98-82-8	Isopropylbenzene	48.9168	
108-86-1	Bromobenzene	49.2609	
103-65-1	n-Propylbenzene	48.9344	
79-34-5	1,1,2,2-Tetrachloroethane	50.6198	
95-49-8	o-Chlorotoluene	48.9687	
108-67-8	1,3,5-Trimethylbenzene	48.8489	
96-18-4	1,2,3-Trichloropropane	50.6977	
110-57-6	trans-1,4-Dichloro-2-butene	49.3615	
540-59-0	1,2-Dichloroethene, Total	98.9464	
106-43-4	p-Chlorotoluene	48.7605	
98-06-6	tert-Butylbenzene	48.5825	
76-01-7	Pentachloroethane	48.6575	
95-63-6	1,2,4-Trimethylbenzene	48.7715	
135-98-8	sec-Butylbenzene	48.1786	
99-87-6	p-Isopropyltoluene	48.3429	
541-73-1	1,3-Dichlorobenzene	48.4938	
106-46-7	1,4-Dichlorobenzene	48.8968	
100-44-7	Benzyl Chloride	48.1619	
104-51-8	n-Butylbenzene	47.9123	
67-72-1	Hexachloroethane	47.1132	
95-50-1	1,2-Dichlorobenzene	49.1431	
96-12-8	1,2-Dibromo-3-chloropropane	50.4790	
98-95-3	Nitrobenzene	575.592	
87-68-3	Hexachlorobutadiene	47.9736	
120-82-1	1,2,4-Trichlorobenzene	49.3009	
91-20-3	Naphthalene	50.5177	
87-61-6	1,2,3-Trichlorobenzene	51.7359	
542-75-6	1,3-Dichloropropene, Total	98.9654	
1330-20-7	Total Xylenes	148.664	
1868-53-7	Dibromofluoromethane	49.8272	
17060-07-0	1,2-Dichloroethane-d4	52.3714	
2037-26-5	Toluene-d8	49.8375	
460-00-4	4-Bromofluorobenzene	48.2809	


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Hexane+
-Acetonitrile+
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Carbon Tetrachloride+
-Heptane
-Benzene+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK+
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-o-Xylene
-Styrene+
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-Total Xylenes
-1,2,3-Trichlorobenzene
Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S7.D
Date : 25-OCT-2016 00:52
Client ID:
Sample Info: 1237;;1;1;4;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S7.D
Page 8

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 9

Date : 25-OCT-2016 00:52

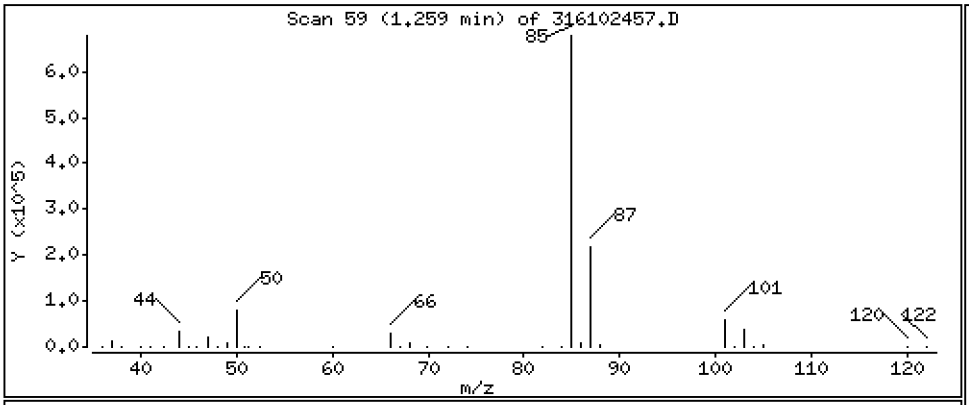
Client ID: Instrument: ms03.i

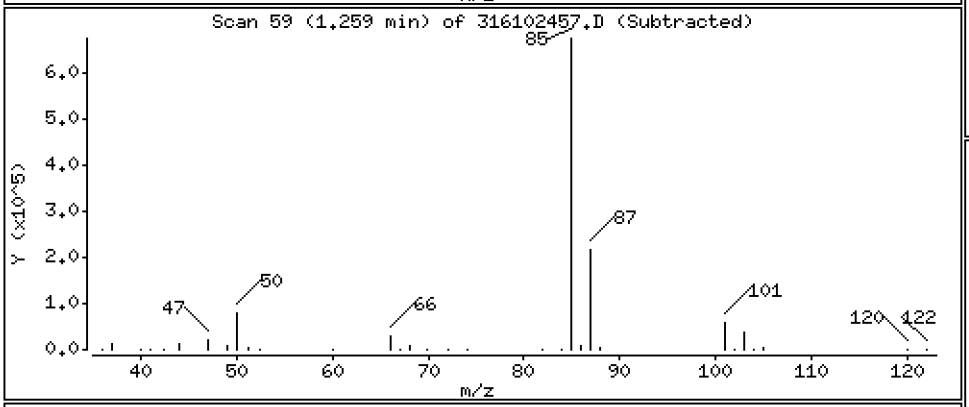
Sample Info: 1237;;1;1;4;;;

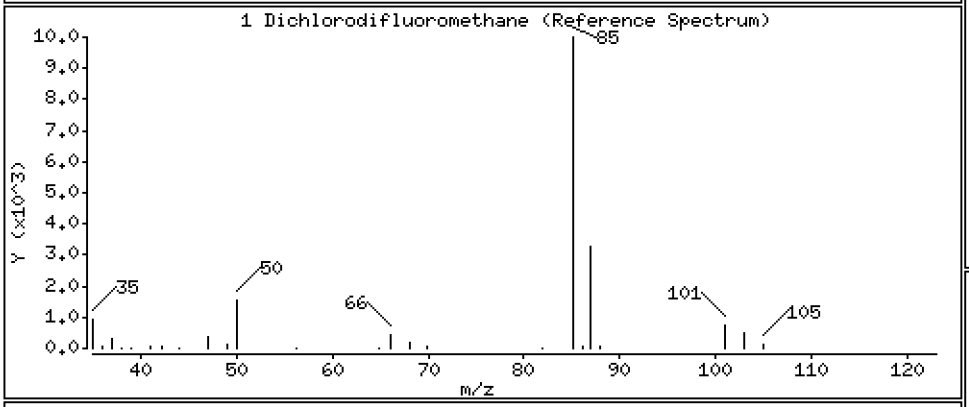
Purge Volume: 5.0 Operator: CJG

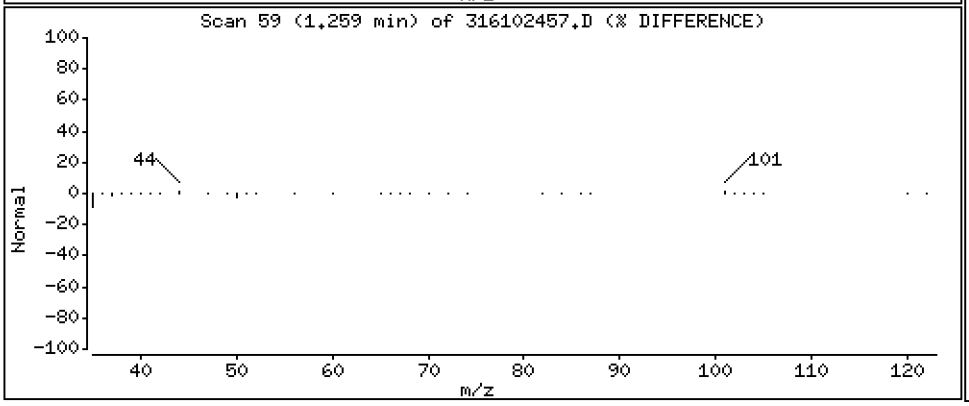
Column phase: DB-VRX Column diameter: 0.25

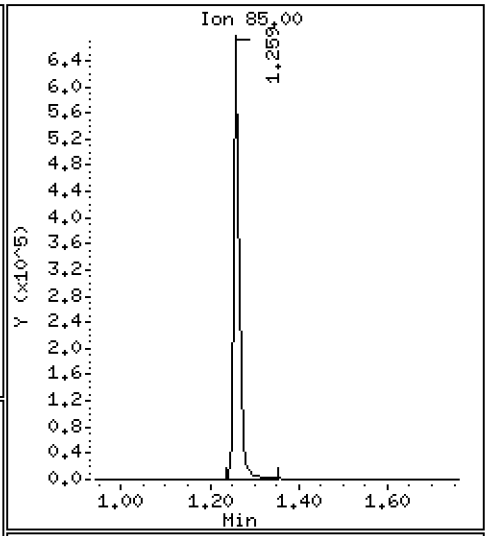
1 Dichlorodifluoromethane Concentration: 49.1284 ug/L

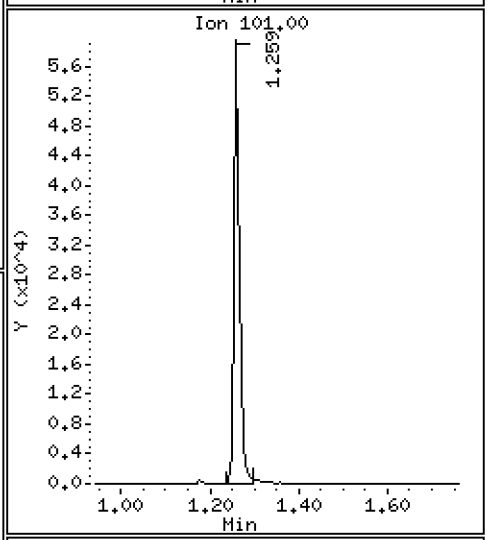


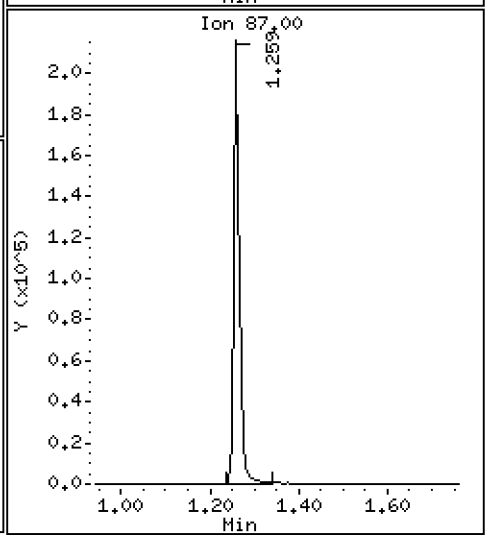












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 10

Date : 25-OCT-2016 00:52

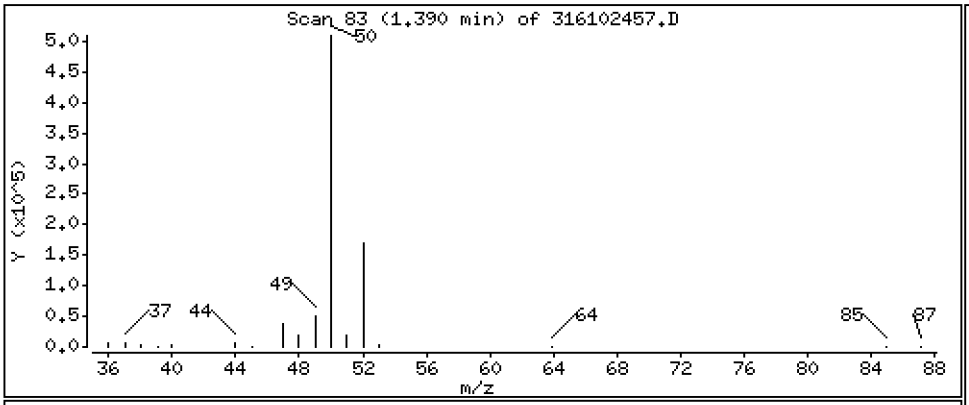
Client ID: Instrument: ms03.i

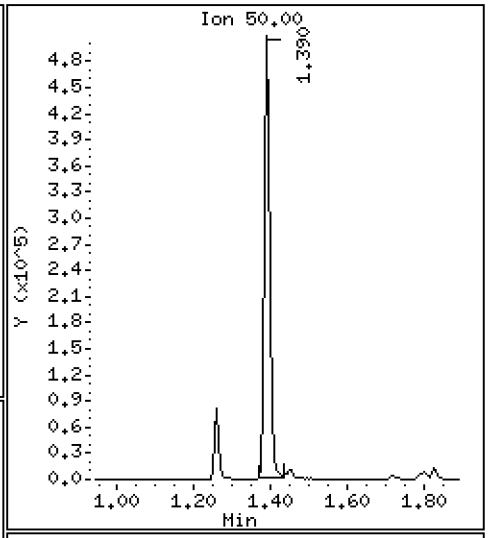
Sample Info: 1237;;1;1;4;;;

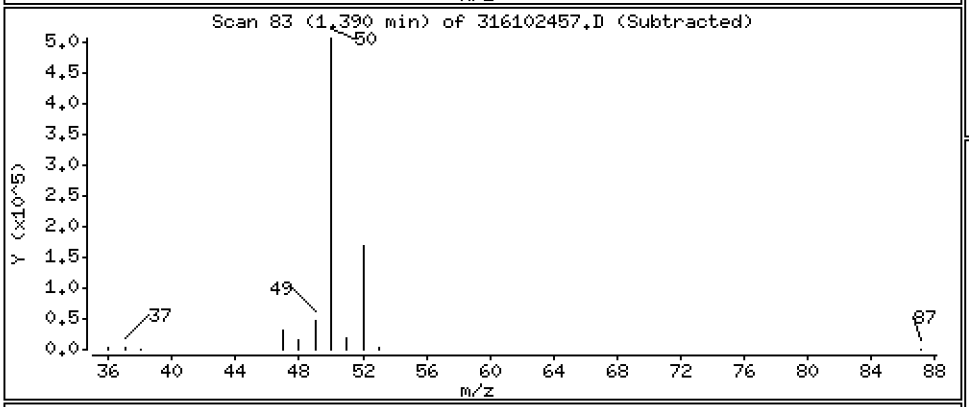
Purge Volume: 5.0 Operator: CJG

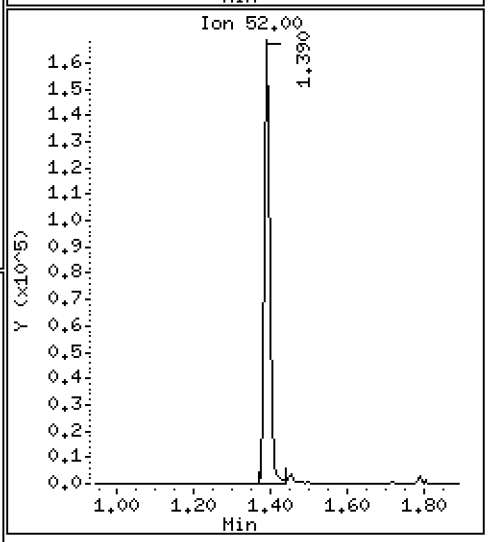
Column phase: DB-VRX Column diameter: 0.25

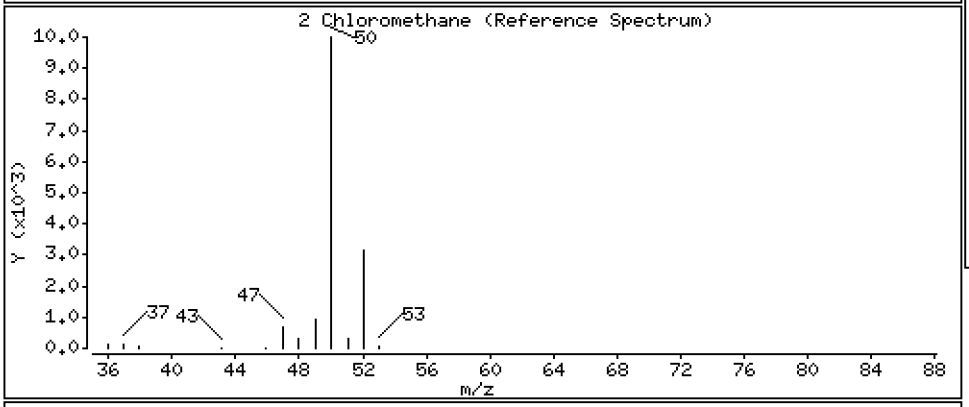
2 Chloromethane Concentration: 49.2994 ug/L

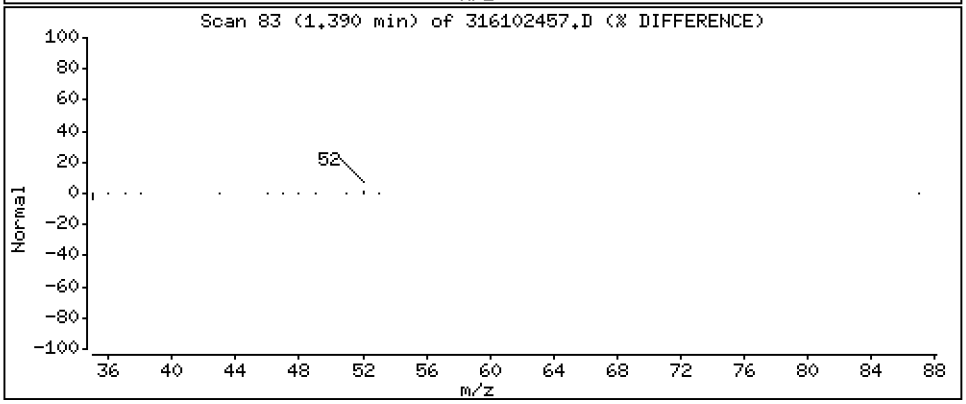












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 11

Date : 25-OCT-2016 00:52

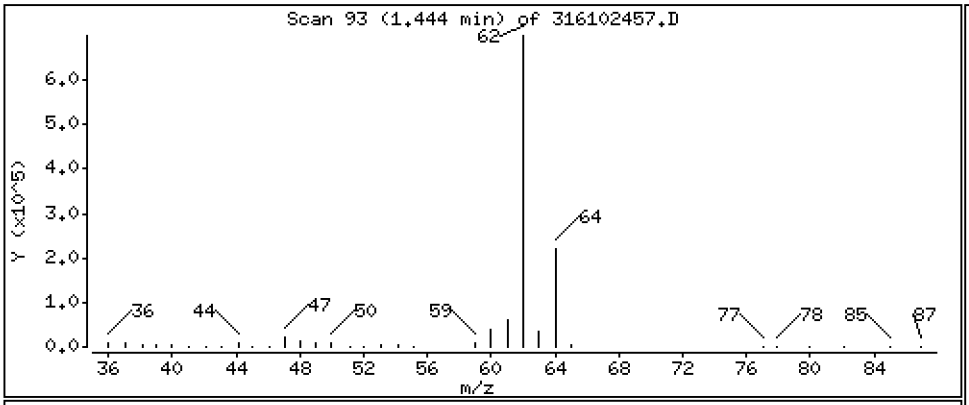
Client ID: Instrument: ms03.i

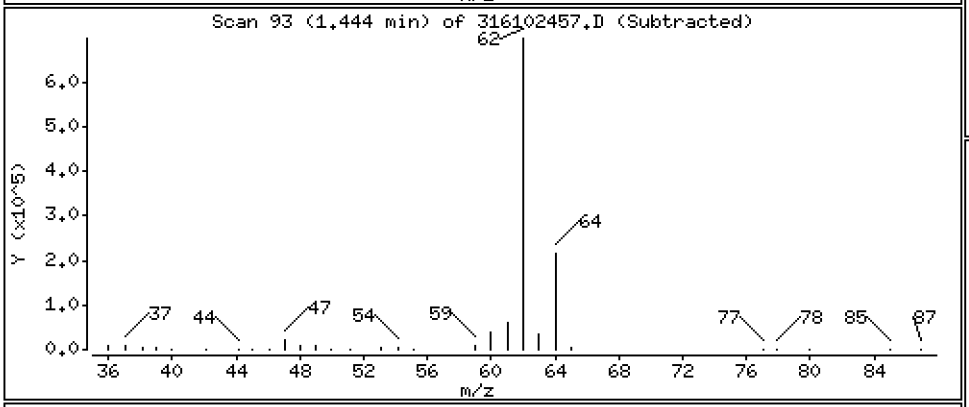
Sample Info: 1237;;1;1;4;;;

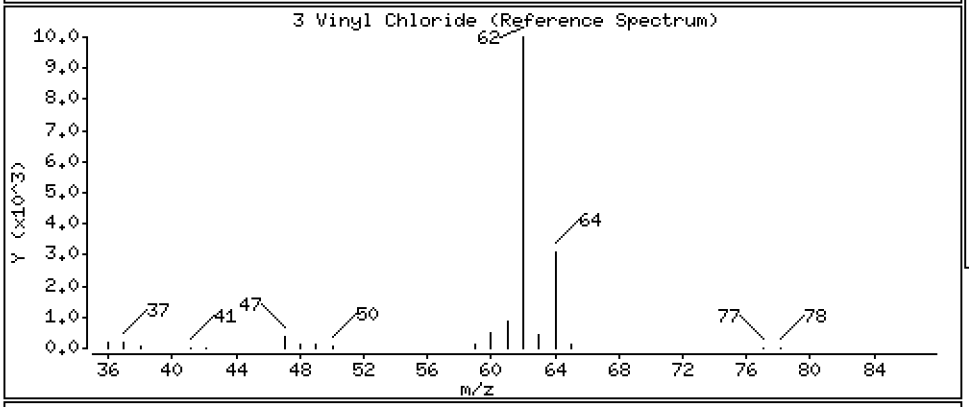
Purge Volume: 5.0 Operator: CJG

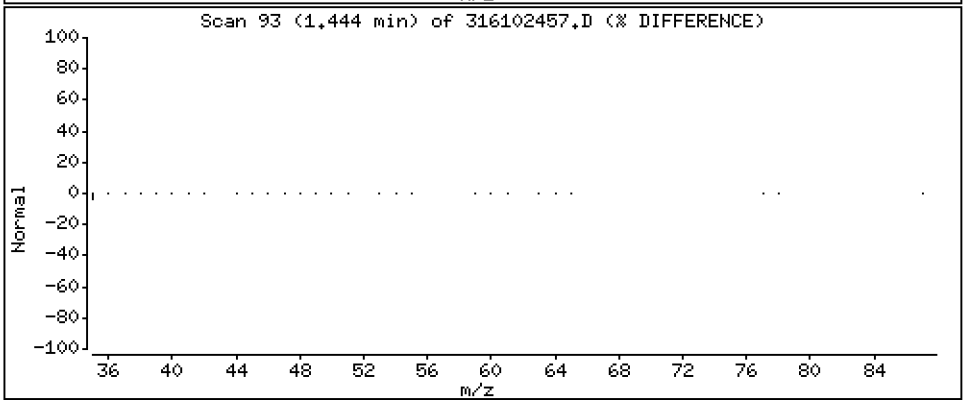
Column phase: DB-VRX Column diameter: 0.25

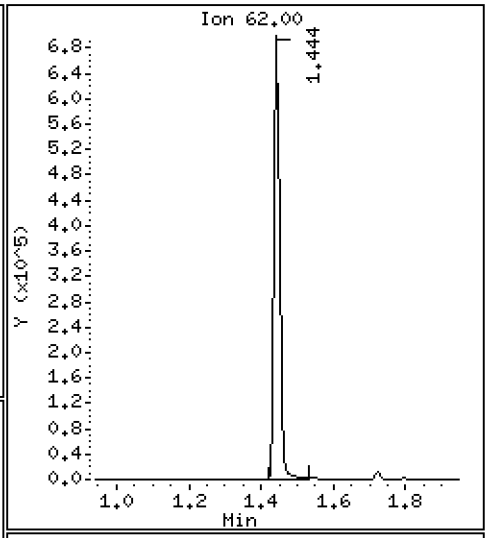
3 Vinyl Chloride Concentration: 49.0250 ug/L

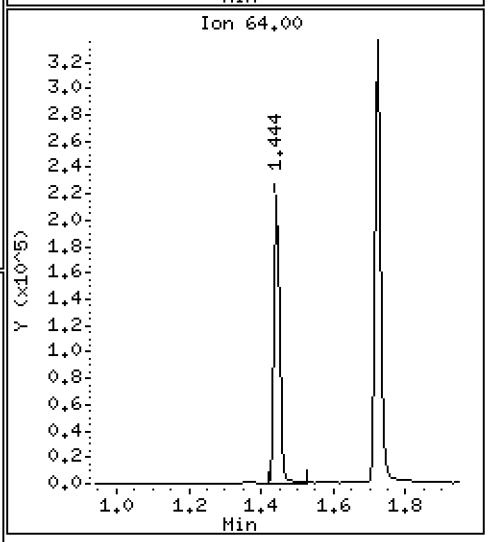












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 12

Date : 25-OCT-2016 00:52

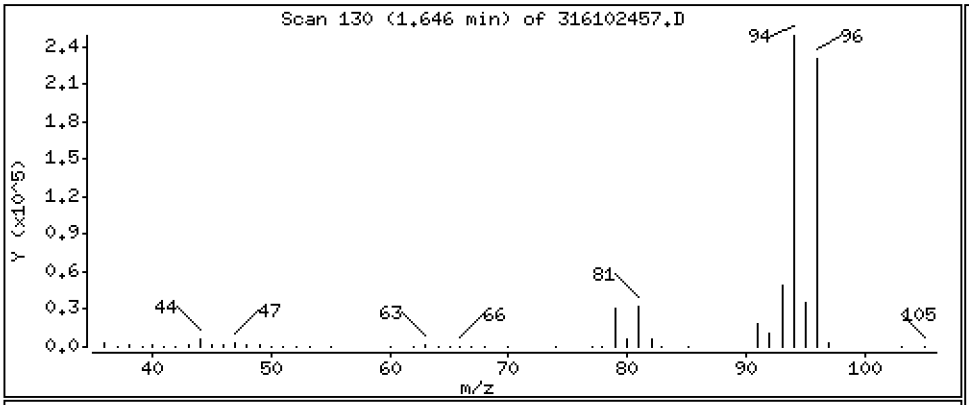
Client ID: Instrument: ms03.i

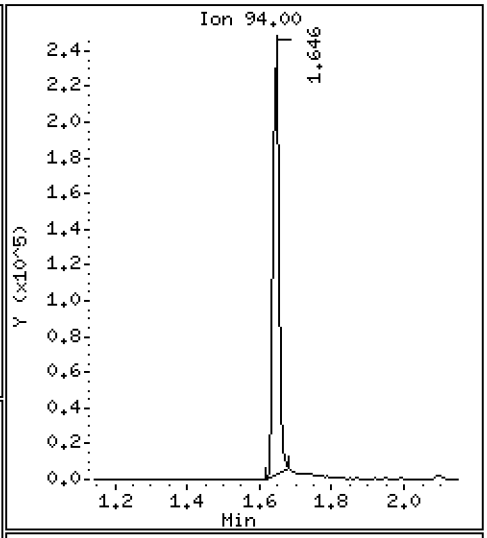
Sample Info: 1237;;1;1;4;;;

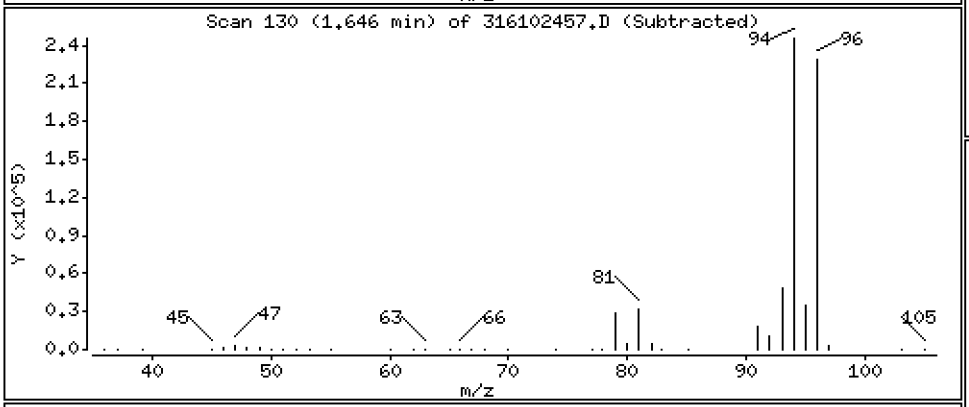
Purge Volume: 5.0 Operator: CJG

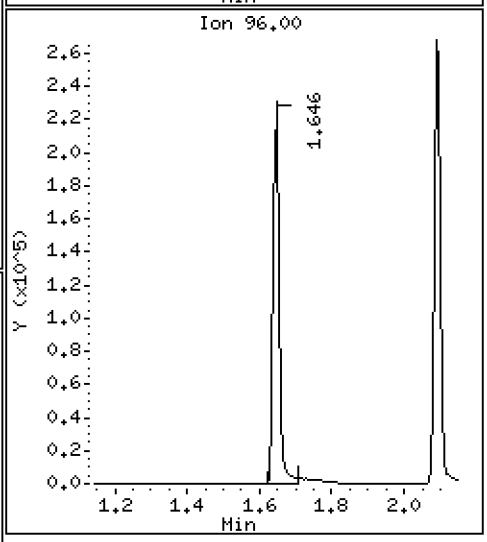
Column phase: DB-VRX Column diameter: 0.25

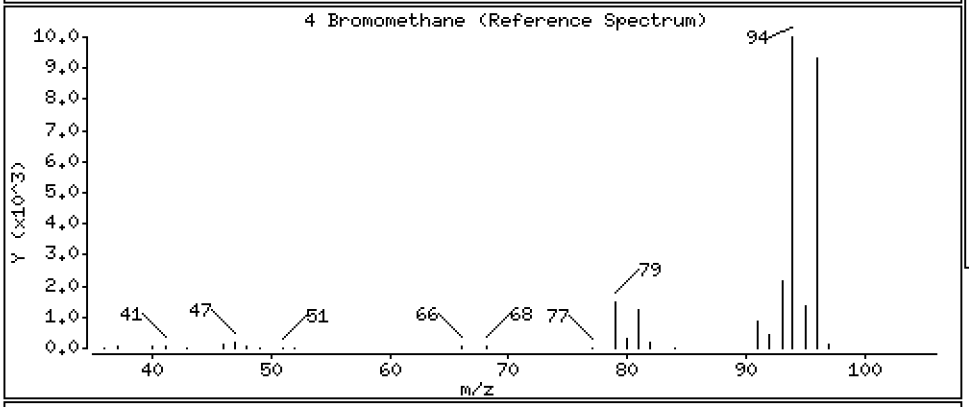
4 Bromomethane Concentration: 46.7273 ug/L

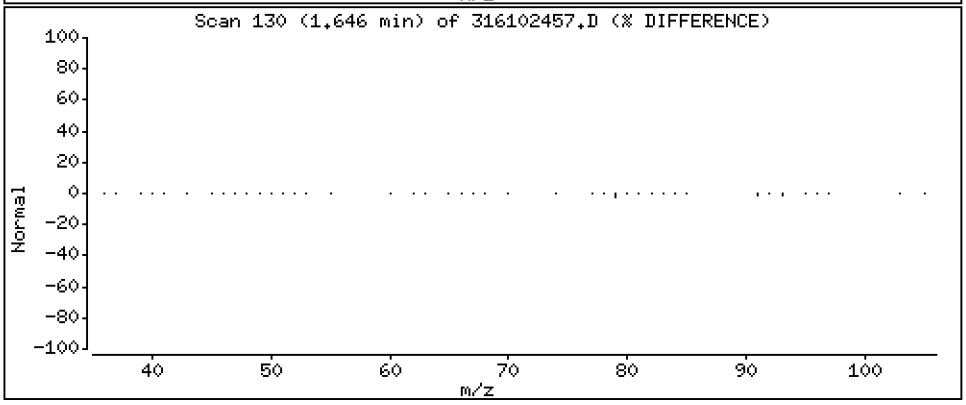












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 13

Date : 25-OCT-2016 00:52

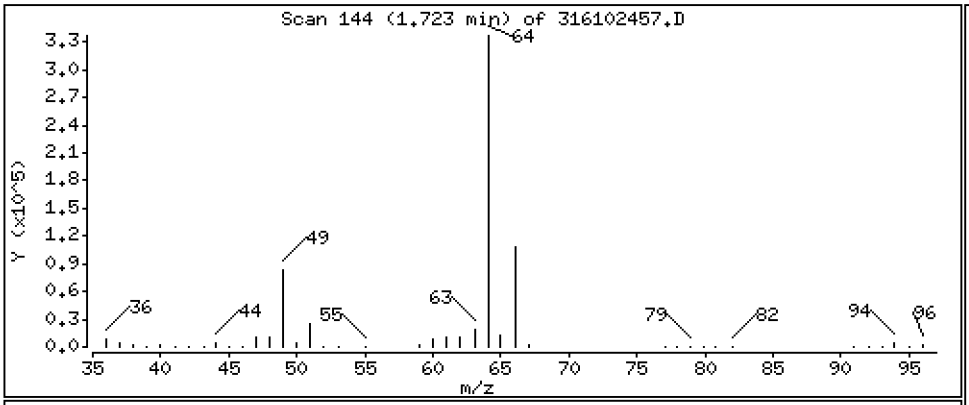
Client ID: Instrument: ms03.i

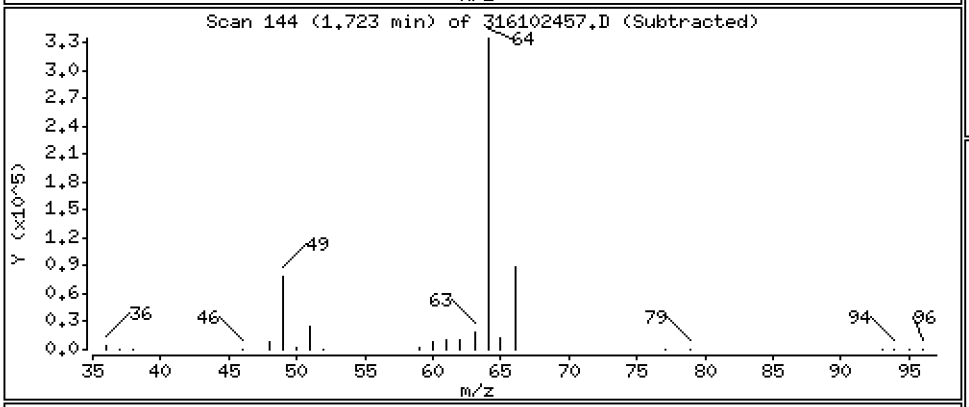
Sample Info: 1237;;1;1;4;;;

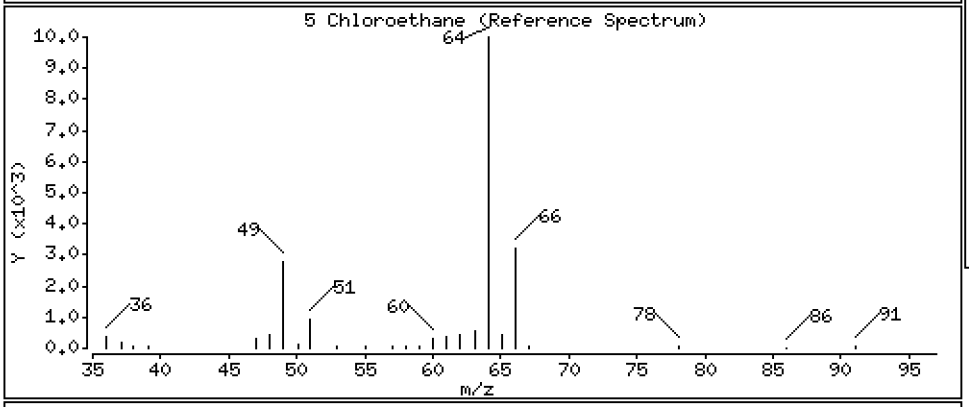
Purge Volume: 5.0 Operator: CJG

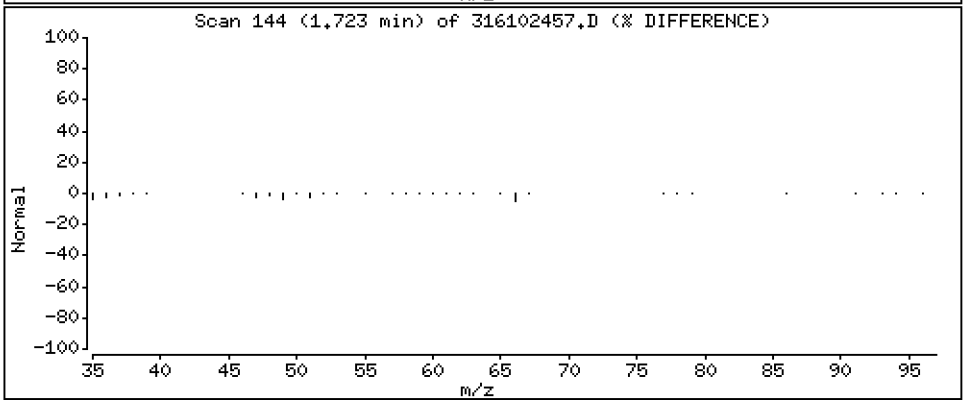
Column phase: DB-VRX Column diameter: 0.25

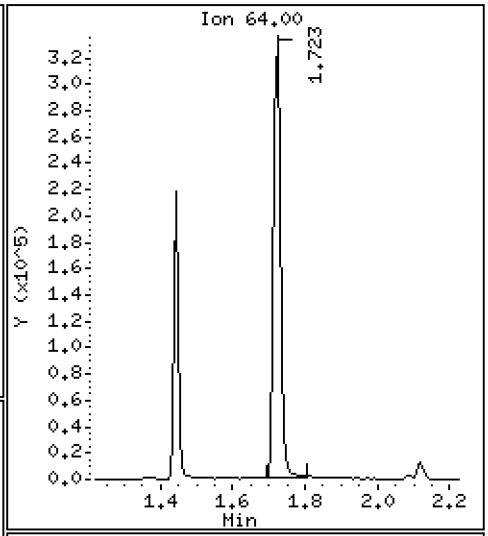
5 Chloroethane Concentration: 49.2161 ug/L

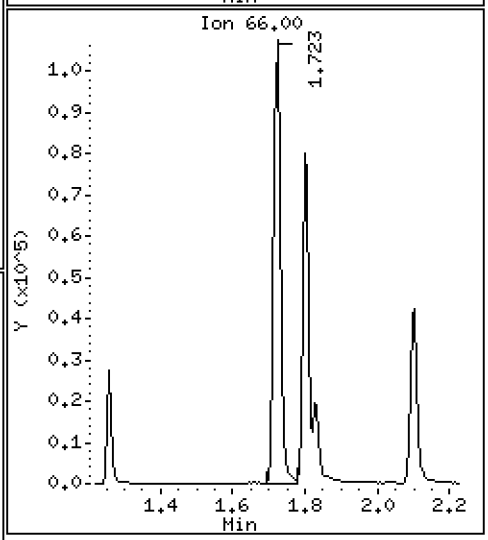












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 14

Date : 25-OCT-2016 00:52

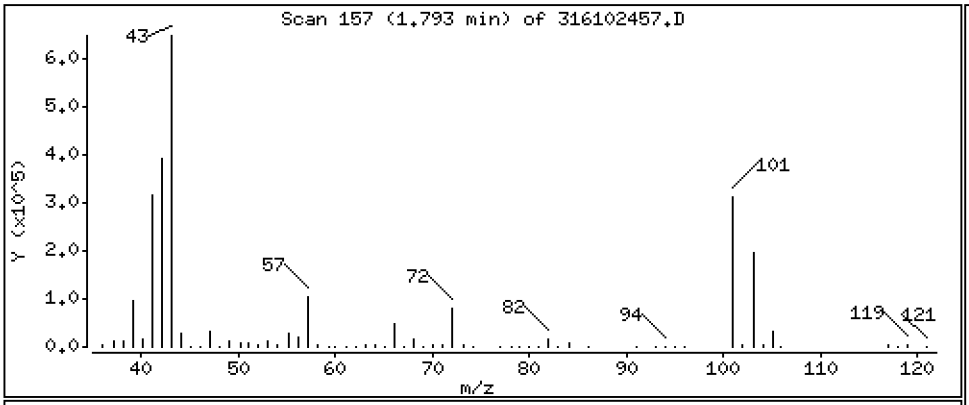
Client ID: Instrument: ms03.i

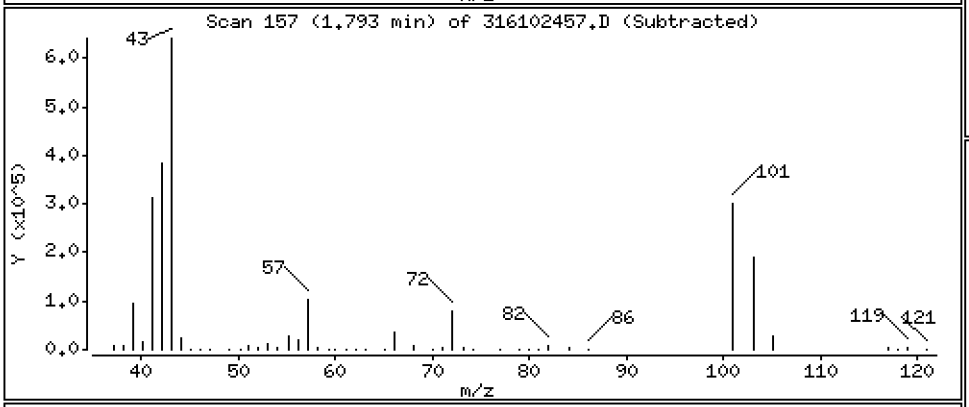
Sample Info: 1237;;1;1;4;;;

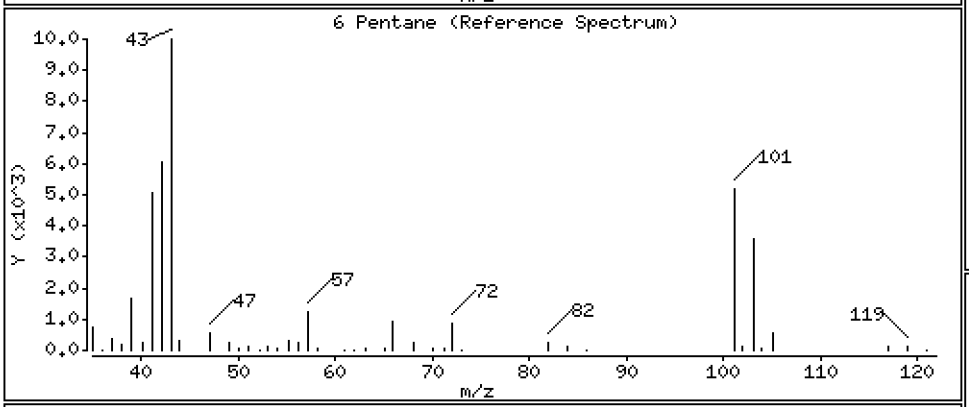
Purge Volume: 5.0 Operator: CJG

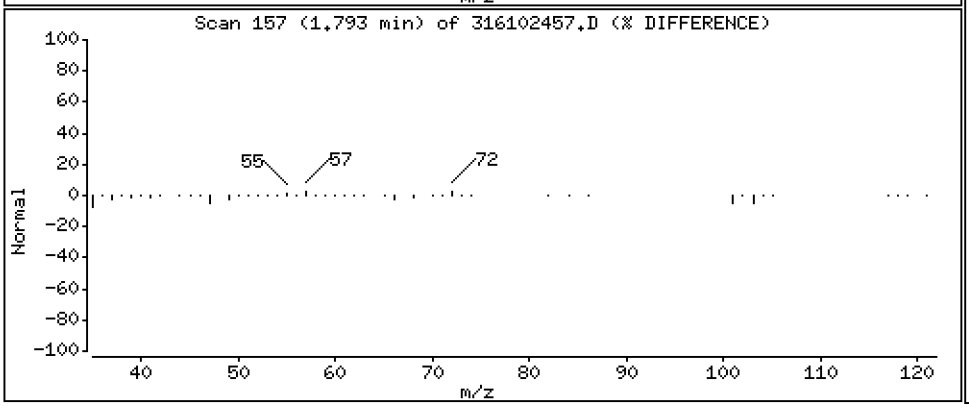
Column phase: DB-VRX Column diameter: 0.25

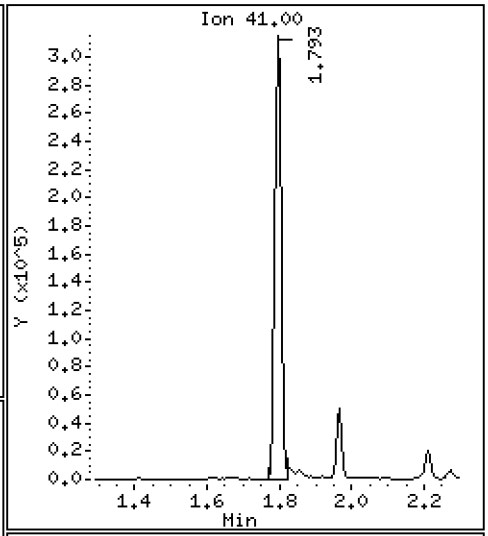
6 Pentane Concentration: 49.2576 ug/L

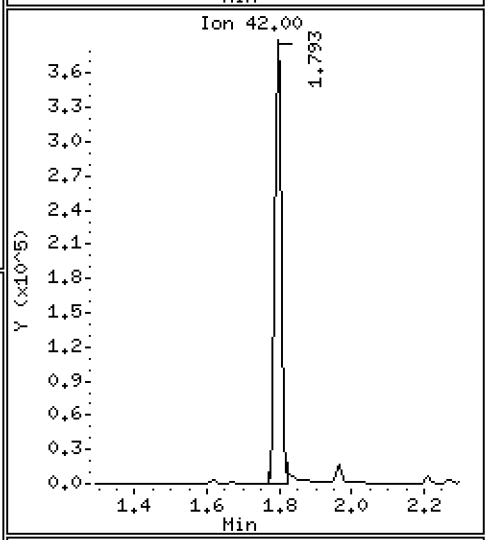


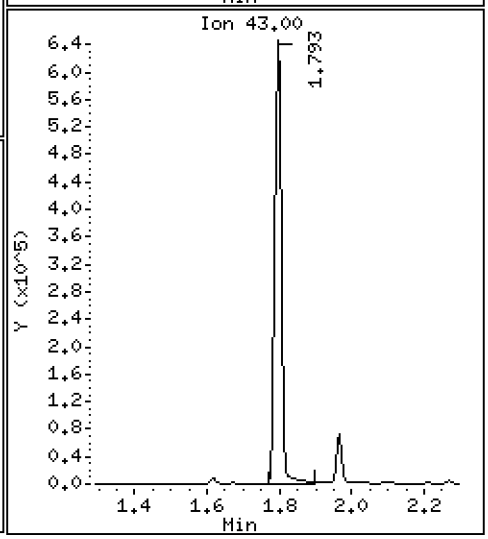












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 15

Date : 25-OCT-2016 00:52

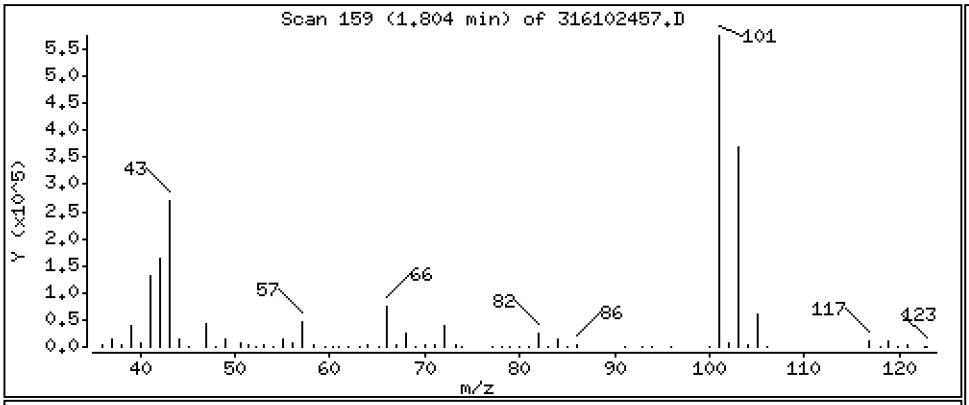
Client ID: Instrument: ms03.i

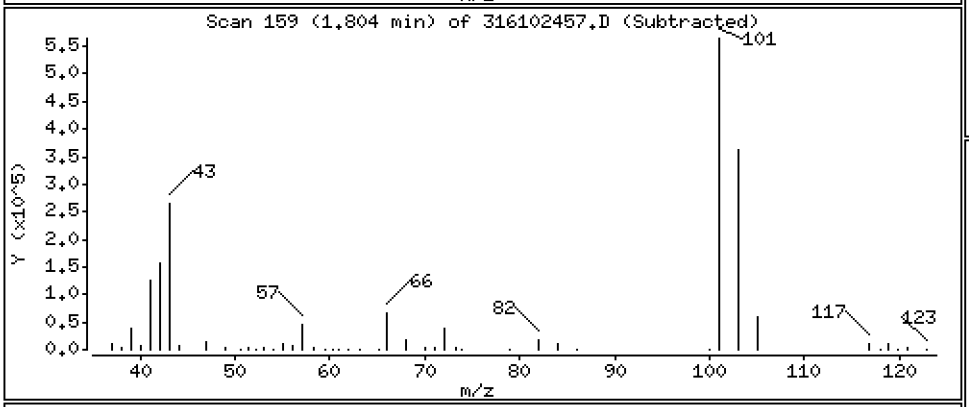
Sample Info: 1237;;1;1;4;;;

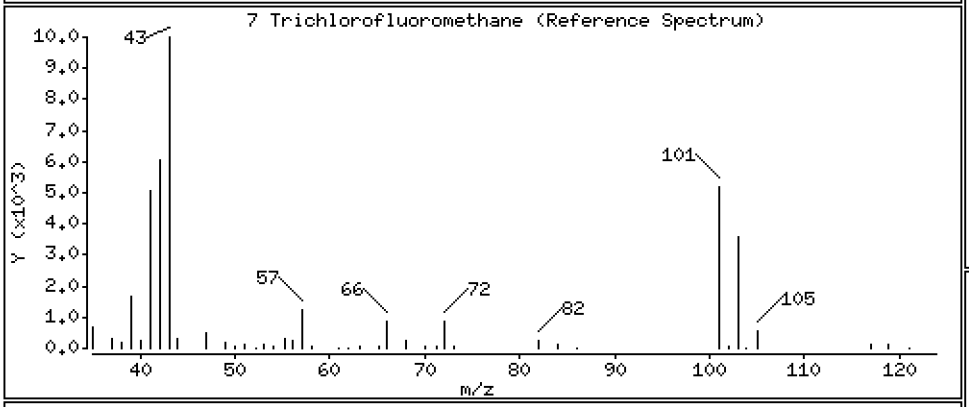
Purge Volume: 5.0 Operator: CJG

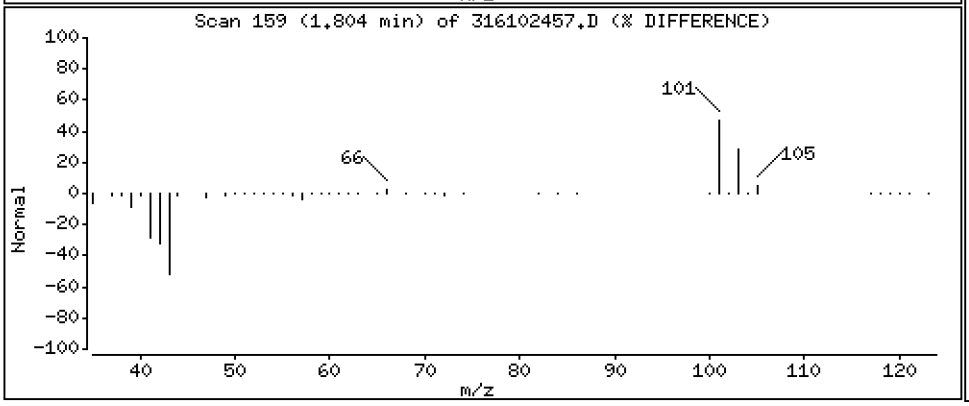
Column phase: DB-VRX Column diameter: 0.25

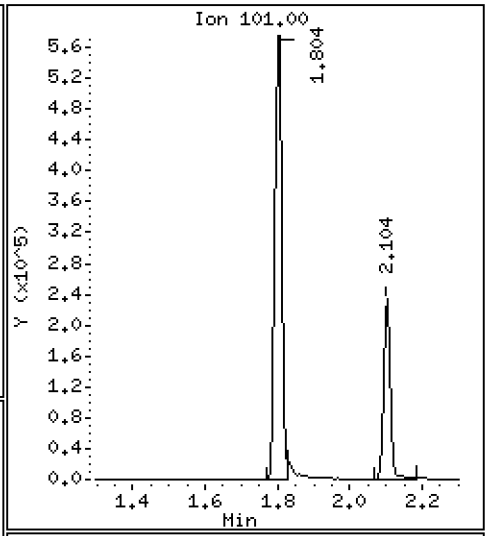
7 Trichlorofluoromethane Concentration: 49.7918 ug/L

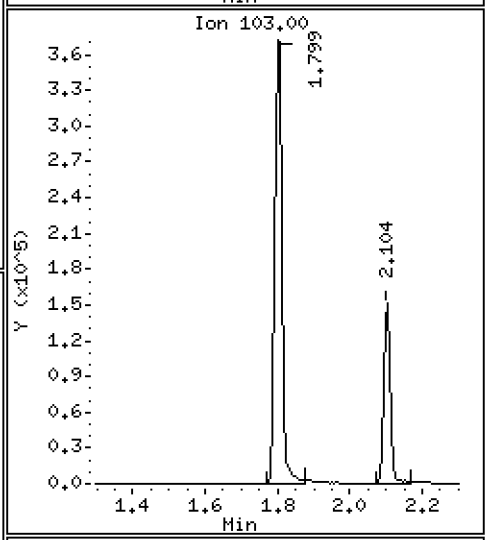


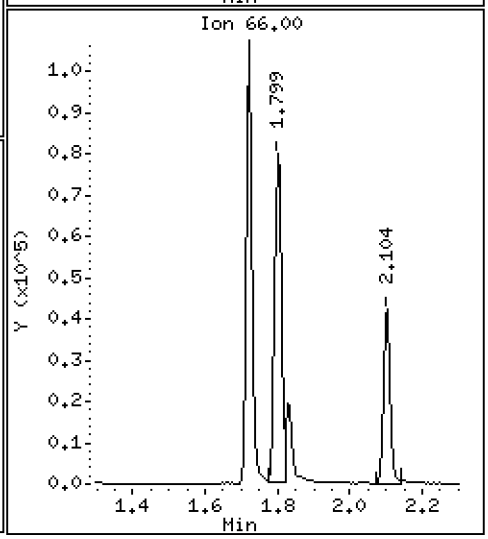












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 16

Date : 25-OCT-2016 00:52

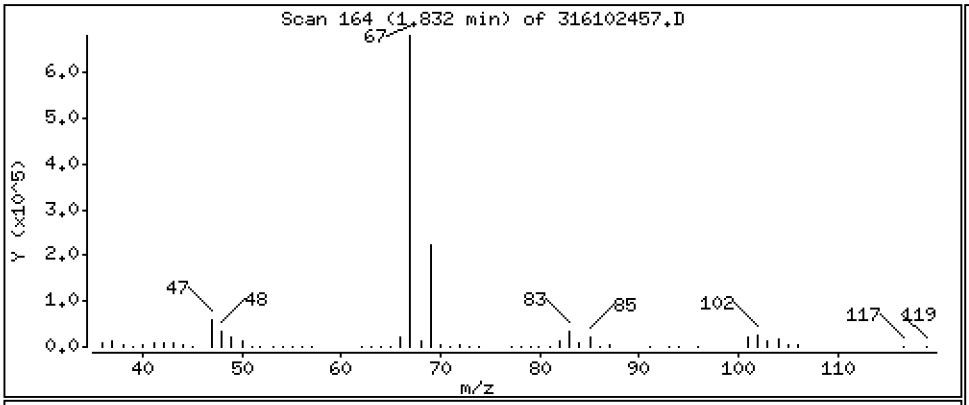
Client ID: Instrument: ms03.i

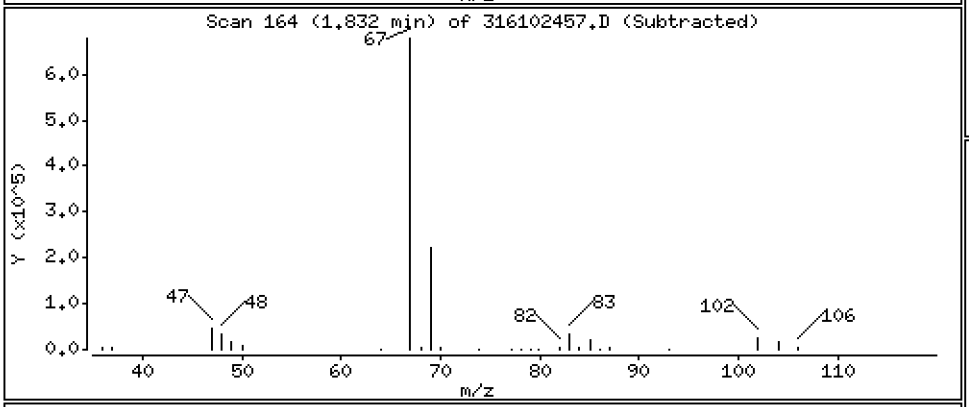
Sample Info: 1237;;1;1;4;;;

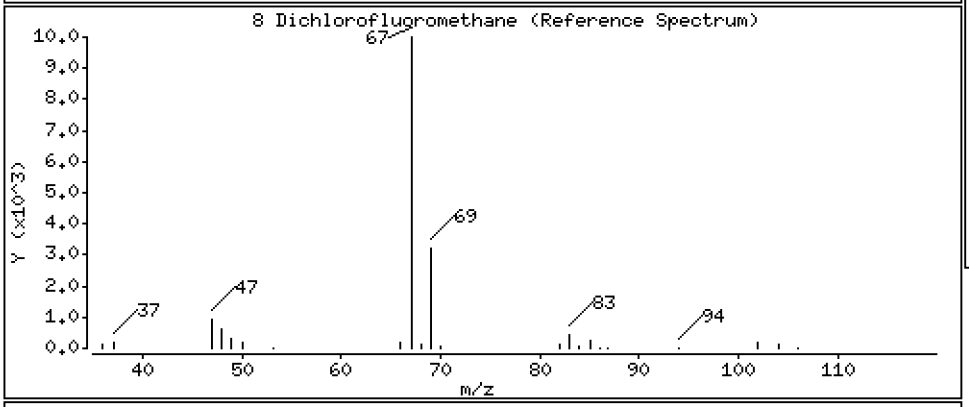
Purge Volume: 5.0 Operator: CJG

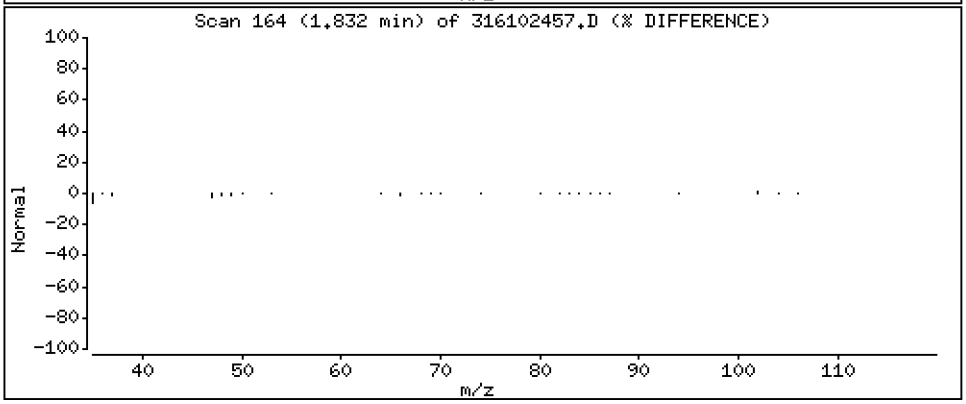
Column phase: DB-VRX Column diameter: 0.25

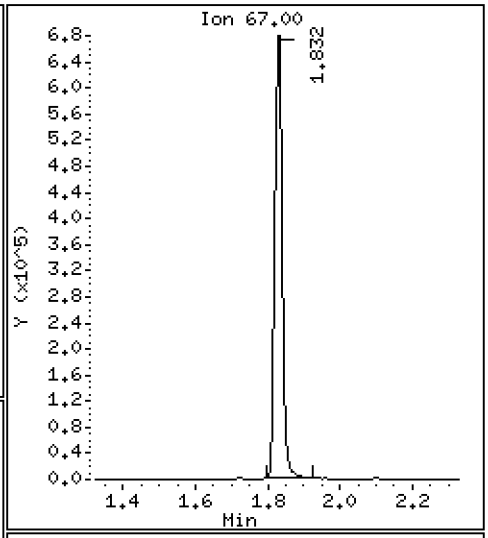
8 Dichlorofluoromethane Concentration: 49.4376 ug/L

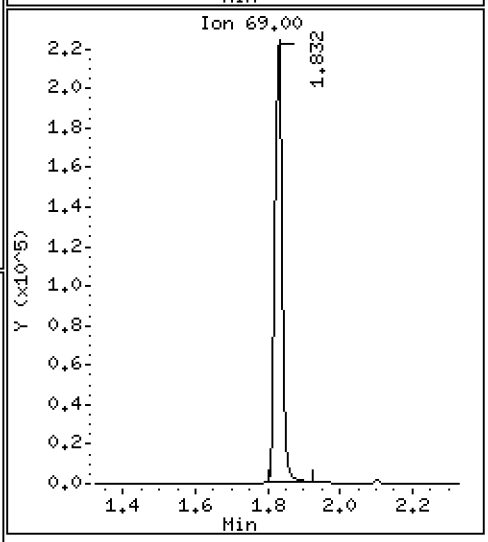












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 17

Date : 25-OCT-2016 00:52

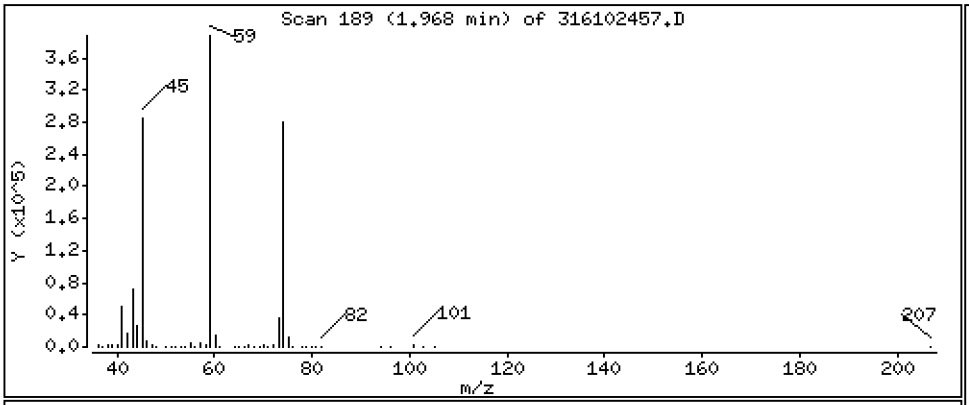
Client ID: Instrument: ms03.i

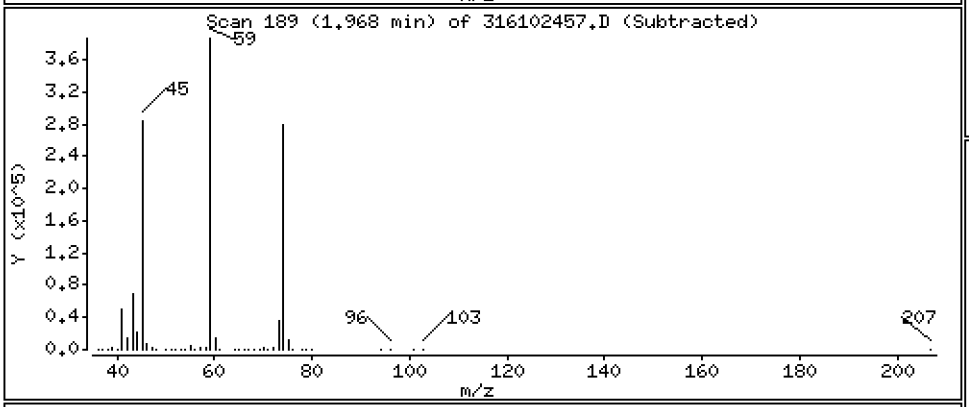
Sample Info: 1237;;1;1;4;;;

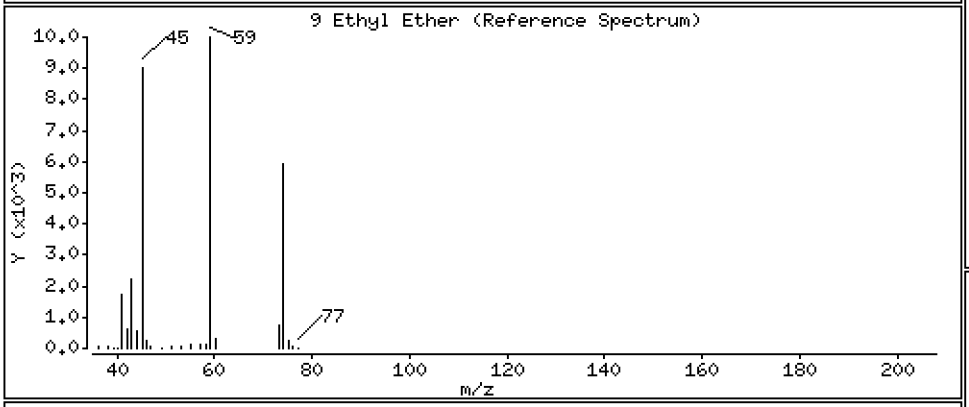
Purge Volume: 5.0 Operator: CJG

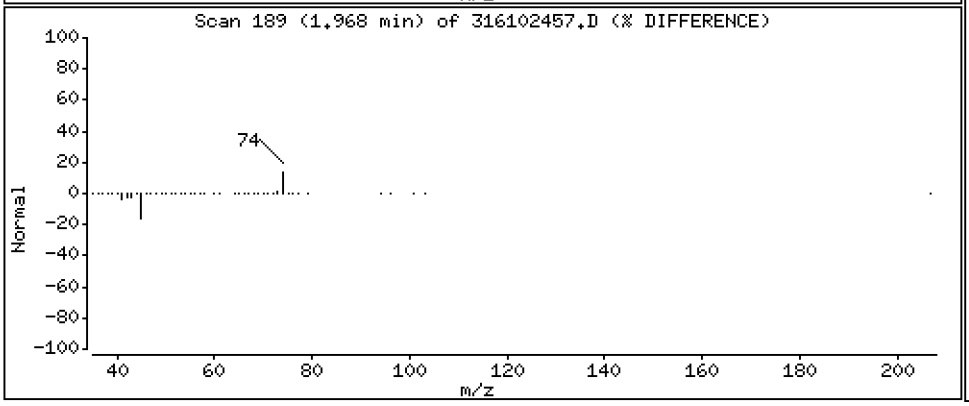
Column phase: DB-VRX Column diameter: 0.25

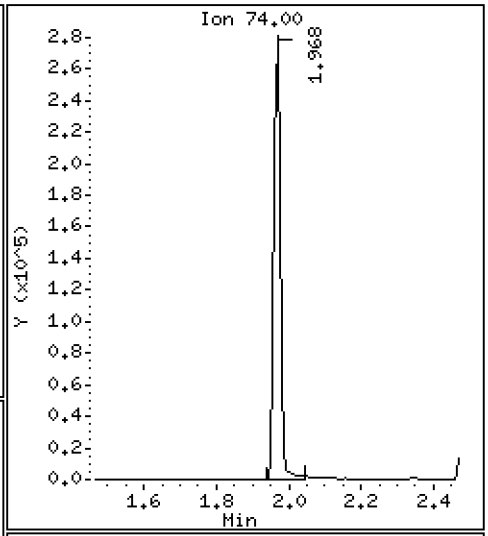
9 Ethyl Ether Concentration: 51.8611 ug/L

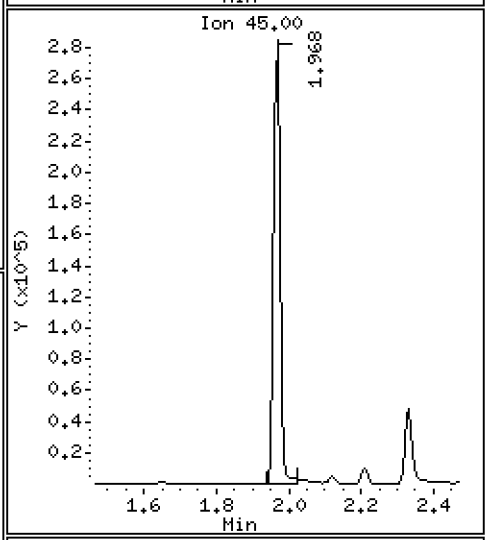


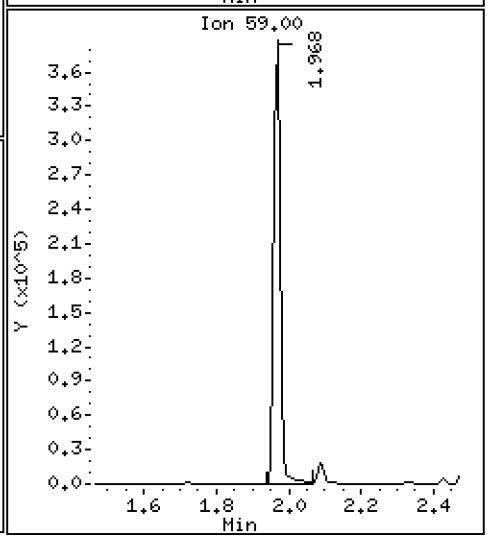












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 18

Date : 25-OCT-2016 00:52

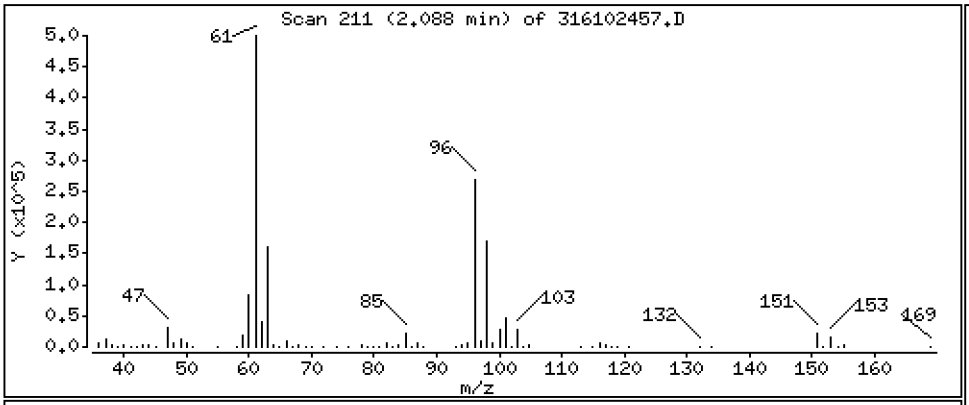
Client ID: Instrument: ms03.i

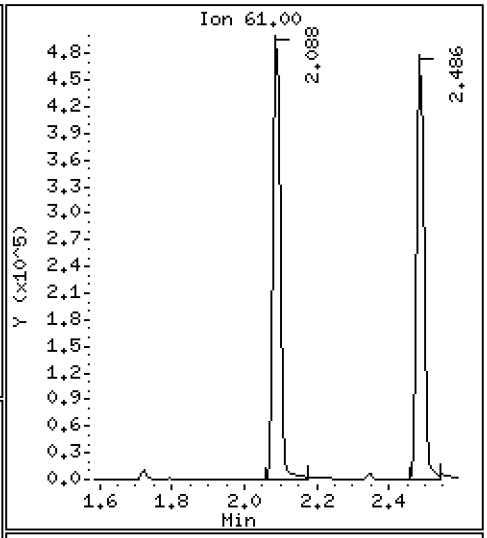
Sample Info: 1237;;1;1;4;;;

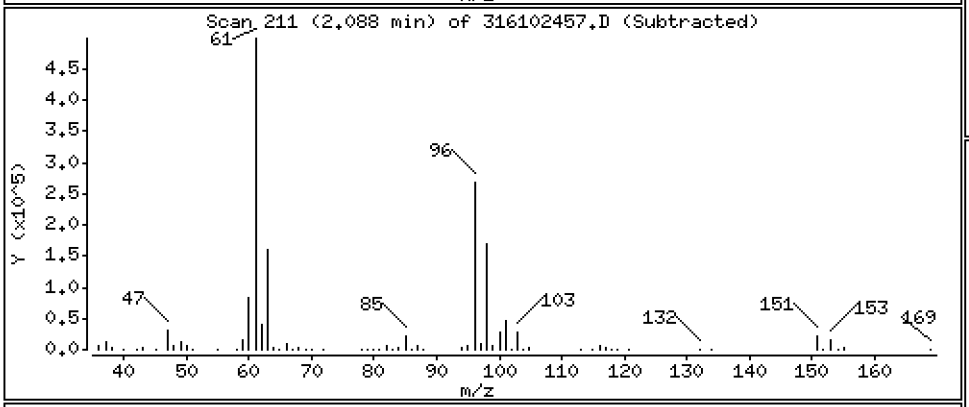
Purge Volume: 5.0 Operator: CJG

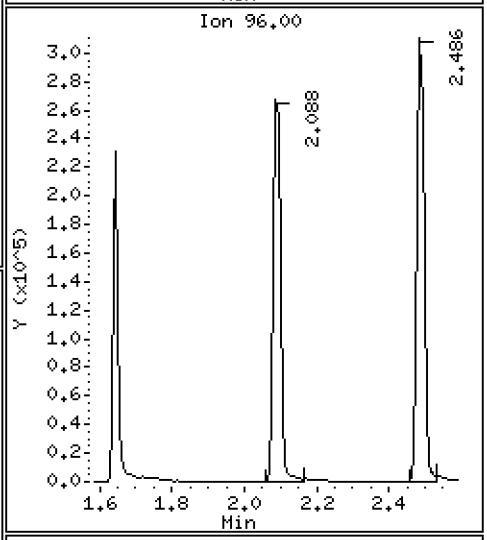
Column phase: DB-VRX Column diameter: 0.25

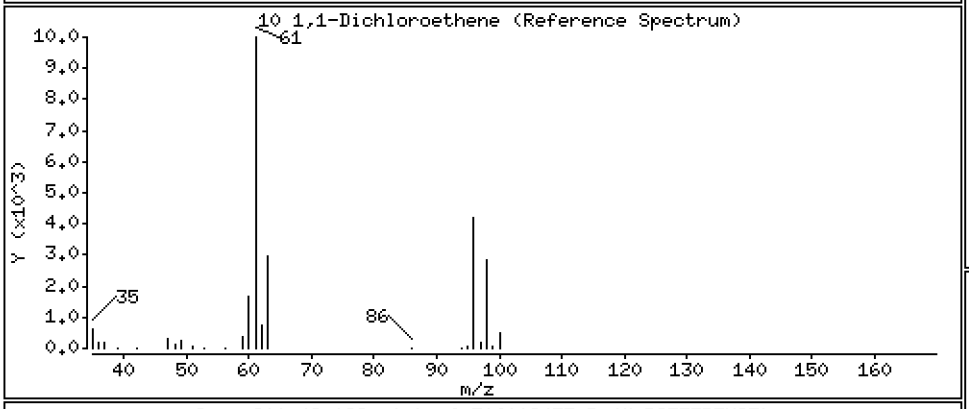
10 1,1-Dichloroethene Concentration: 49.5928 ug/L

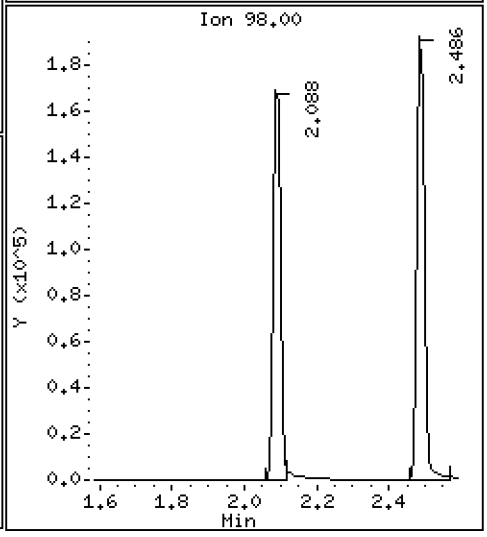


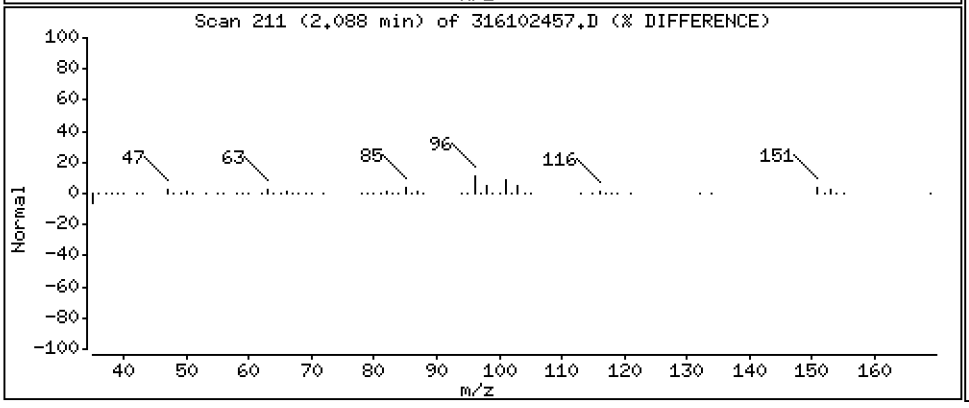












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 19

Date : 25-OCT-2016 00:52

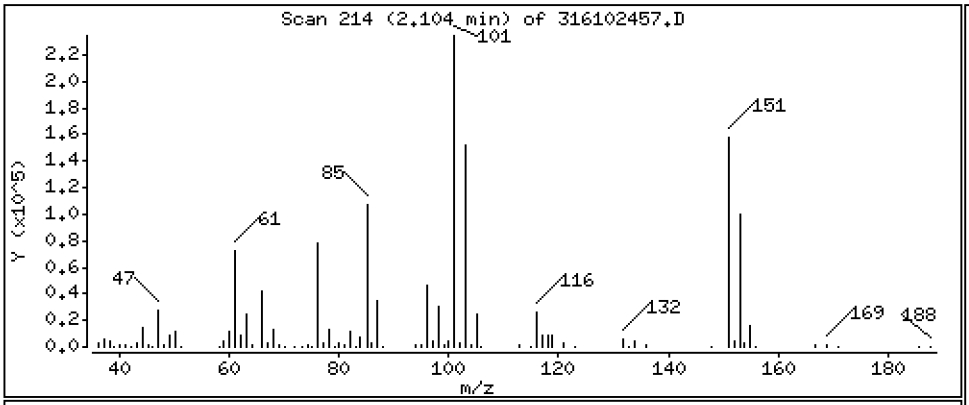
Client ID: Instrument: ms03.i

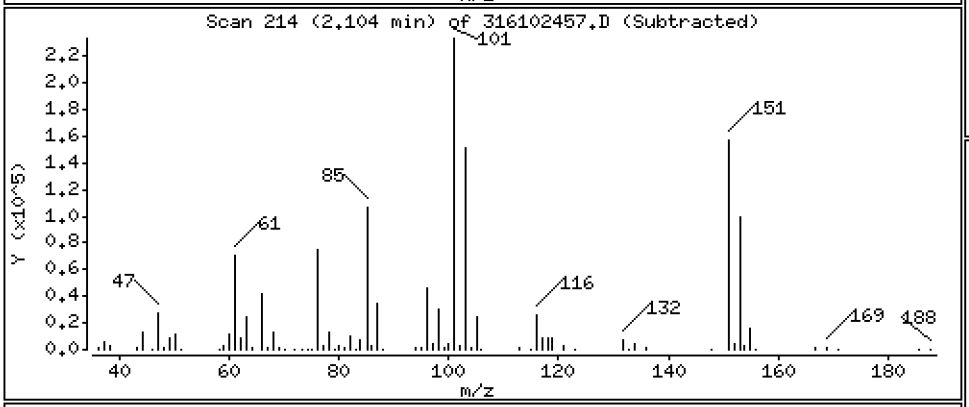
Sample Info: 1237;;1;1;4;;;

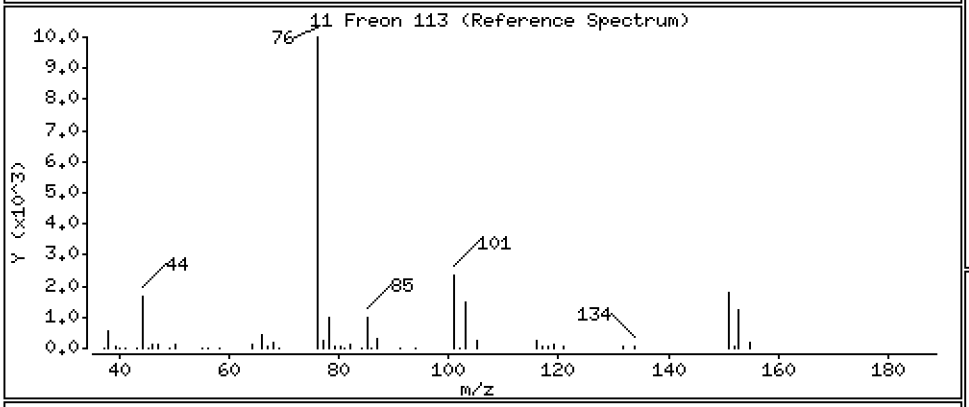
Purge Volume: 5.0 Operator: CJG

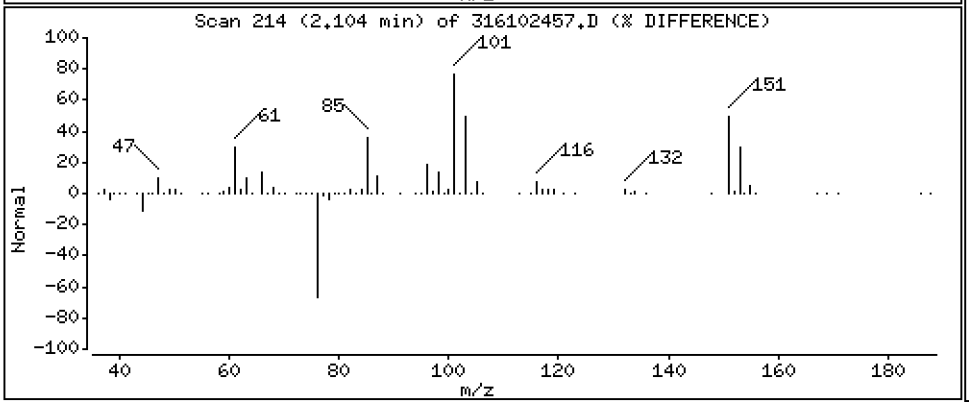
Column phase: DB-VRX Column diameter: 0.25

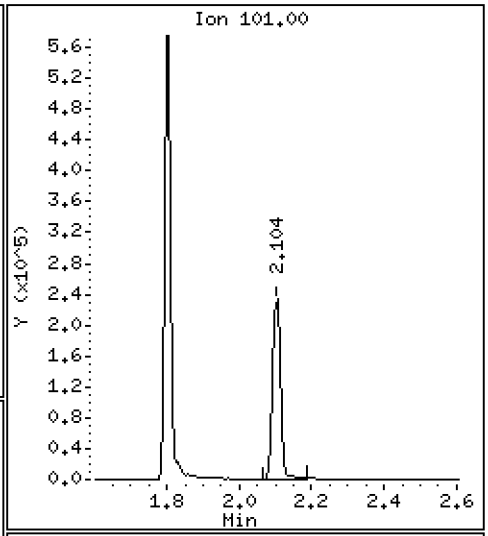
11 Freon 113 Concentration: 49.2609 ug/L

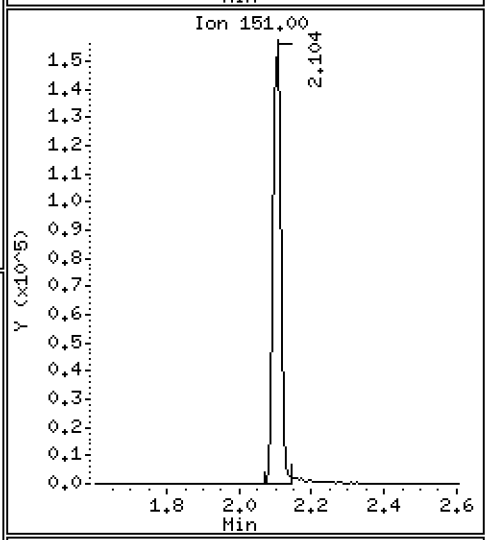


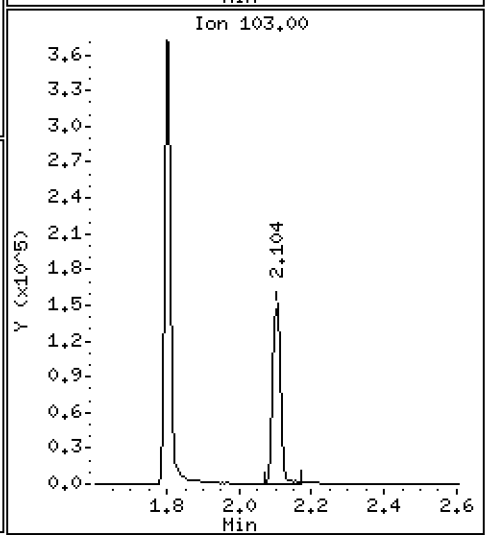












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 20

Date : 25-OCT-2016 00:52

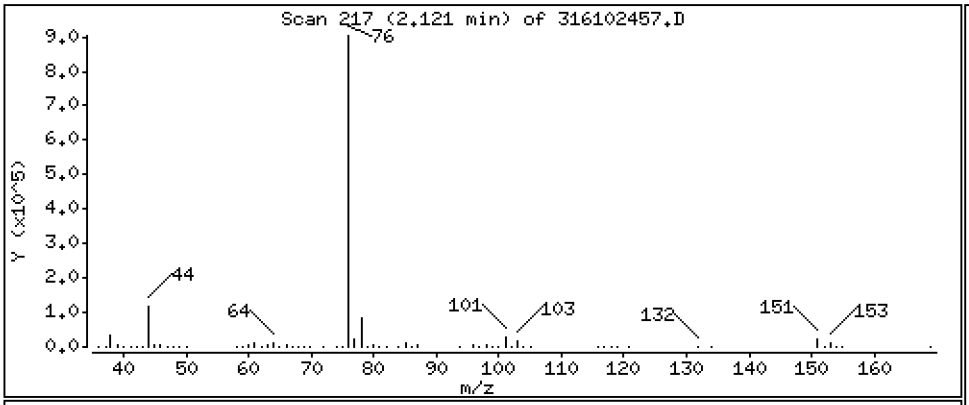
Client ID: Instrument: ms03.i

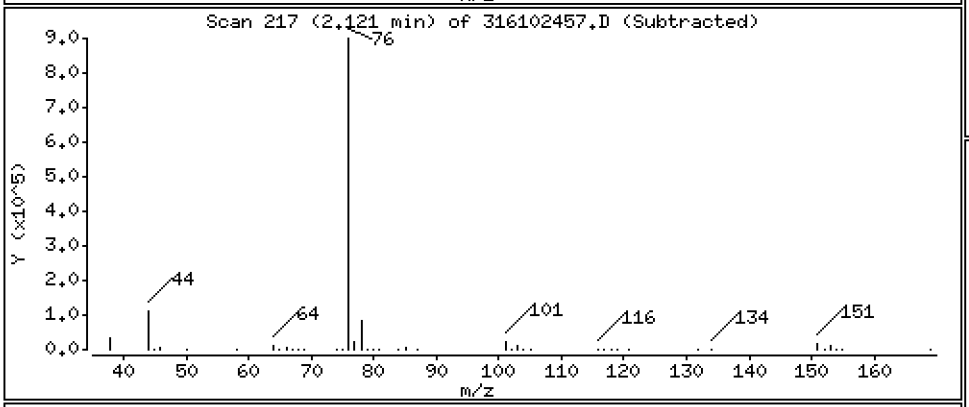
Sample Info: 1237;;1;1;4;;;

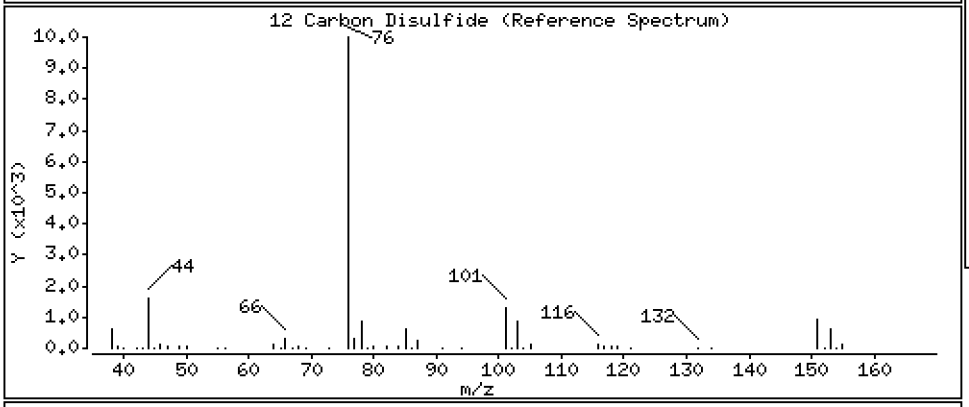
Purge Volume: 5.0 Operator: CJG

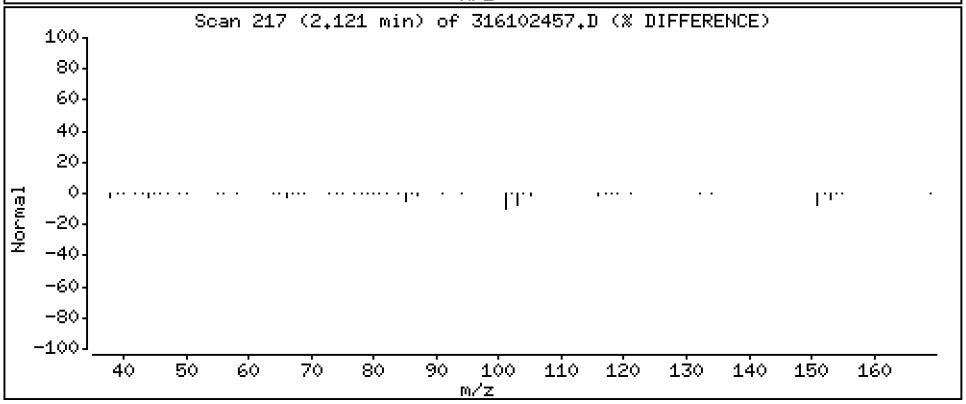
Column phase: DB-VRX Column diameter: 0.25

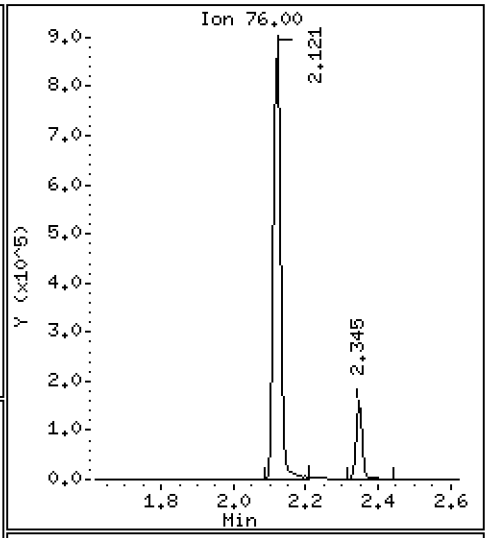
12 Carbon Disulfide Concentration: 48.4615 ug/L

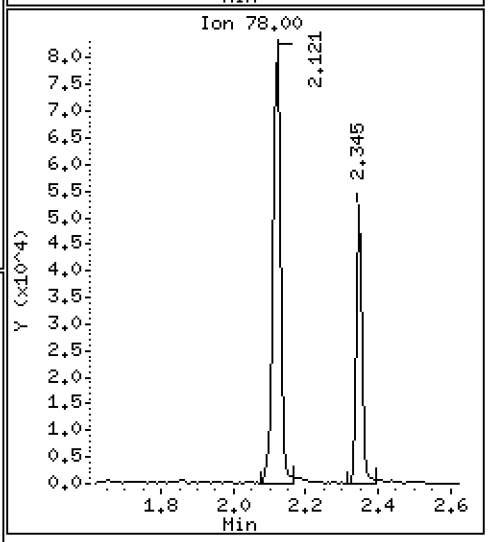












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 21

Date : 25-OCT-2016 00:52

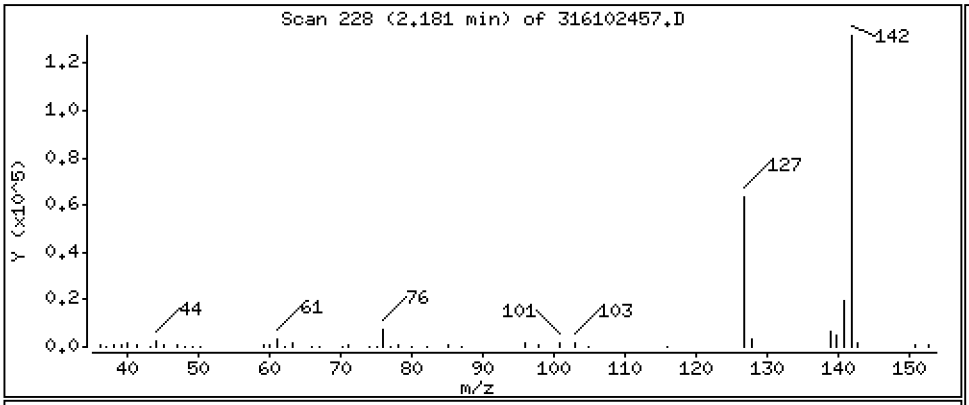
Client ID: Instrument: ms03.i

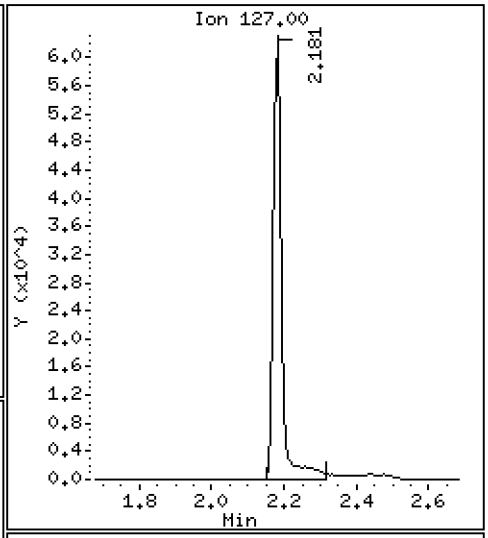
Sample Info: 1237;;1;1;4;;;

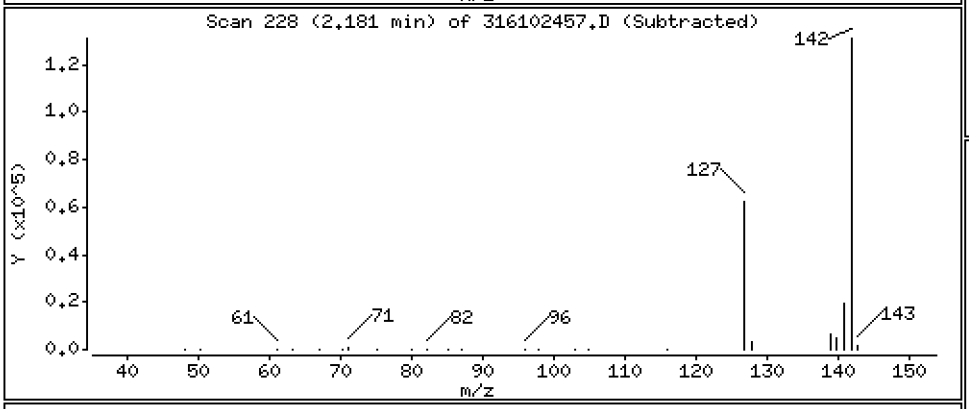
Purge Volume: 5.0 Operator: CJG

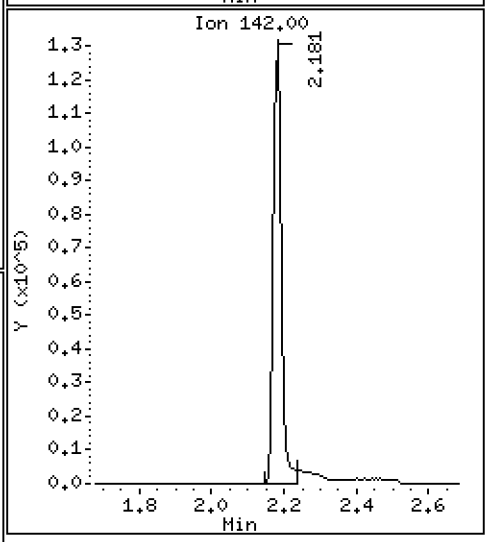
Column phase: DB-VRX Column diameter: 0.25

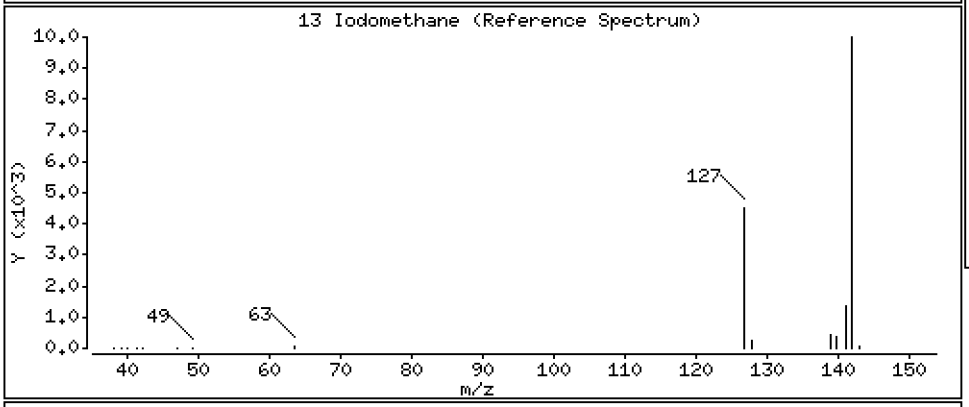
13 Iodomethane Concentration: 44.8691 ug/L

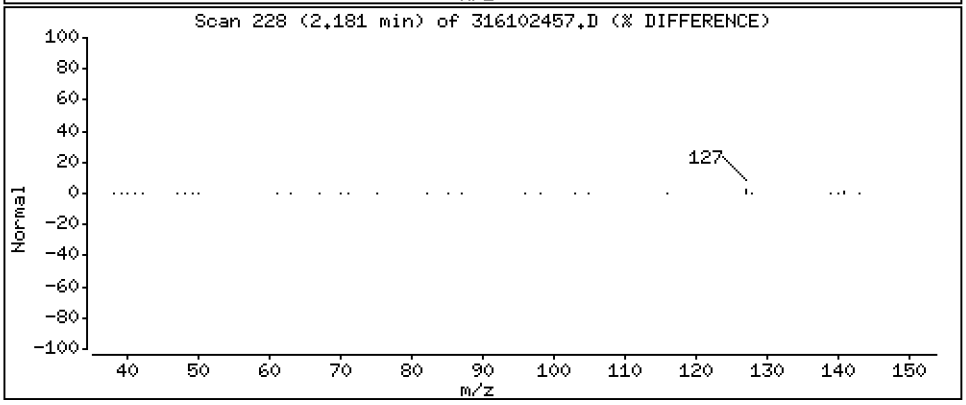












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 22

Date : 25-OCT-2016 00:52

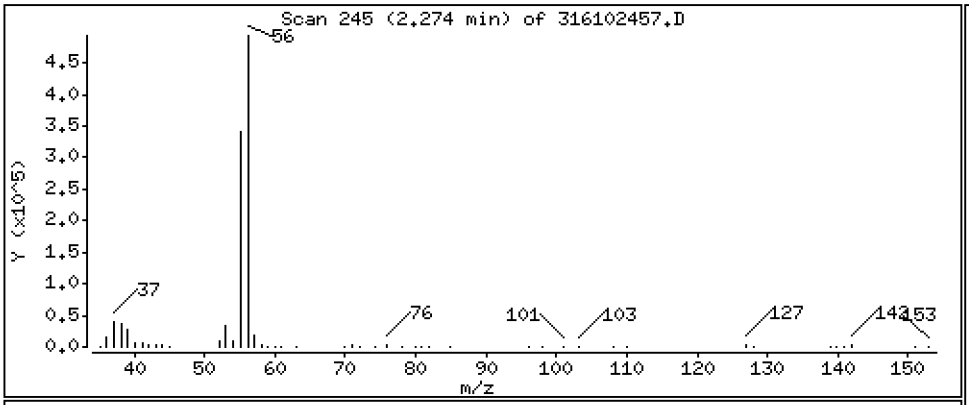
Client ID: Instrument: ms03.i

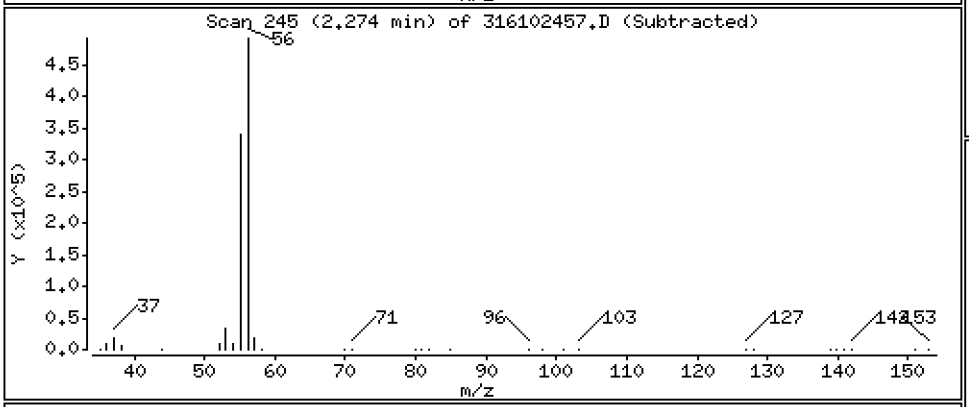
Sample Info: 1237;;1;1;4;;;

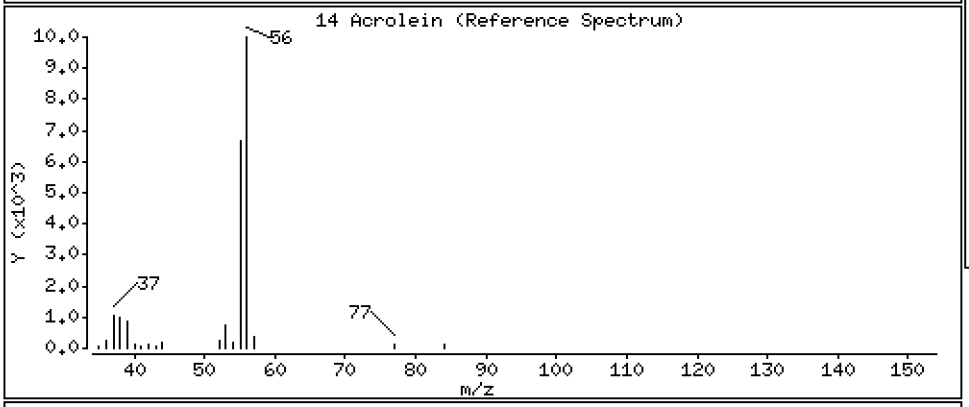
Purge Volume: 5.0 Operator: CJG

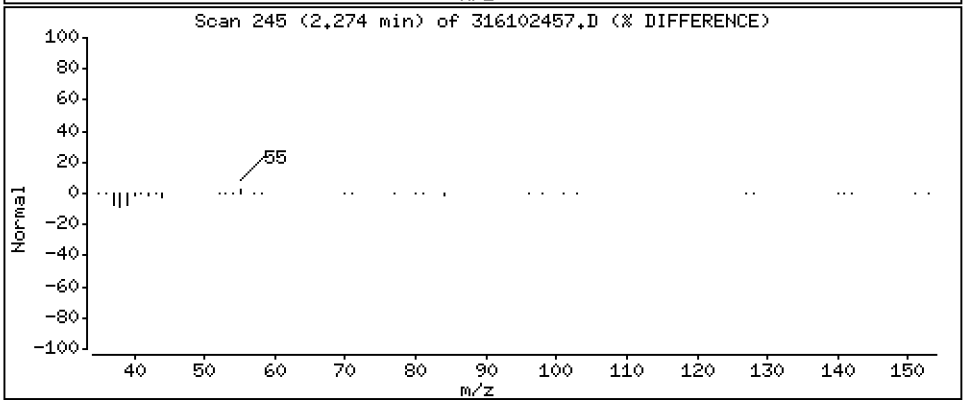
Column phase: DB-VRX Column diameter: 0.25

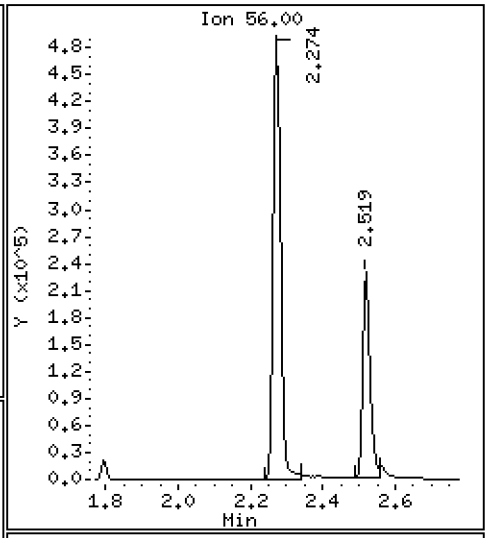
14 Acrolein Concentration: 503.843 ug/L

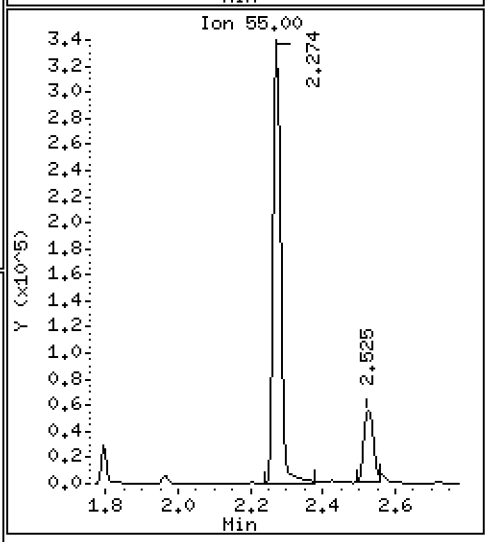












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 23

Date : 25-OCT-2016 00:52

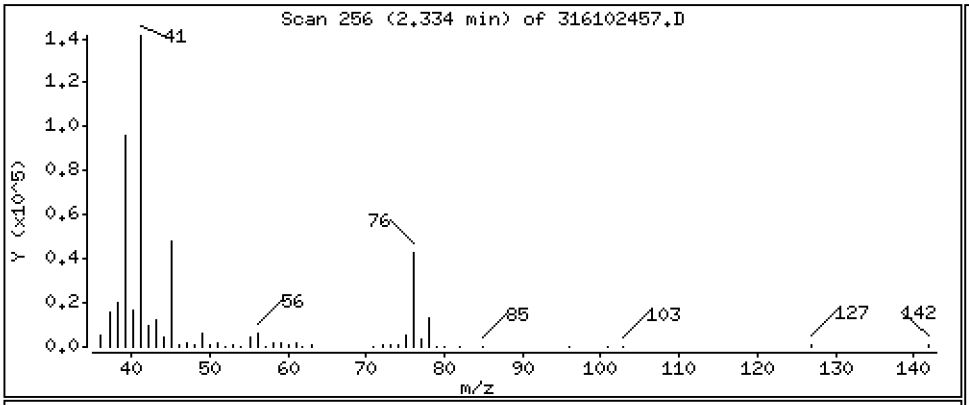
Client ID: Instrument: ms03.i

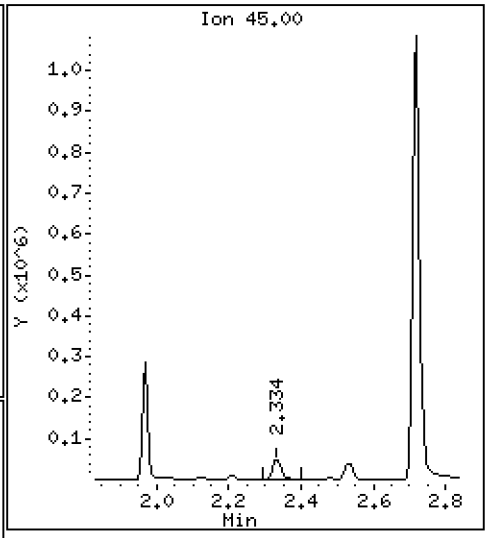
Sample Info: 1237;;1;1;4;;;

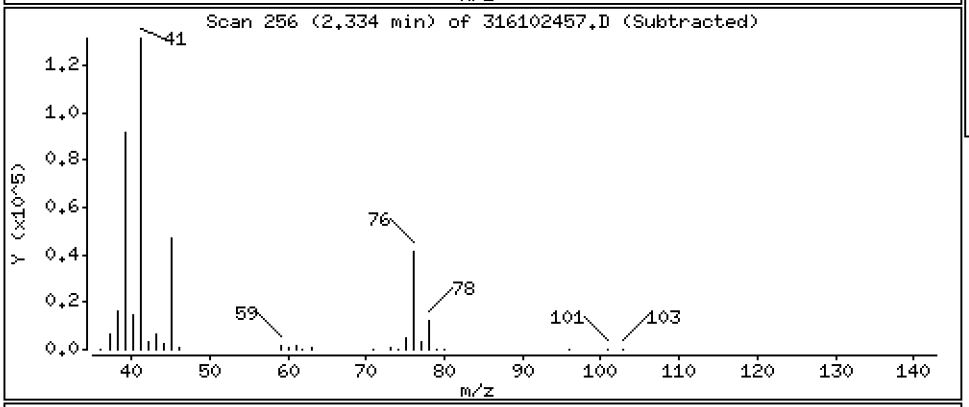
Purge Volume: 5.0 Operator: CJG

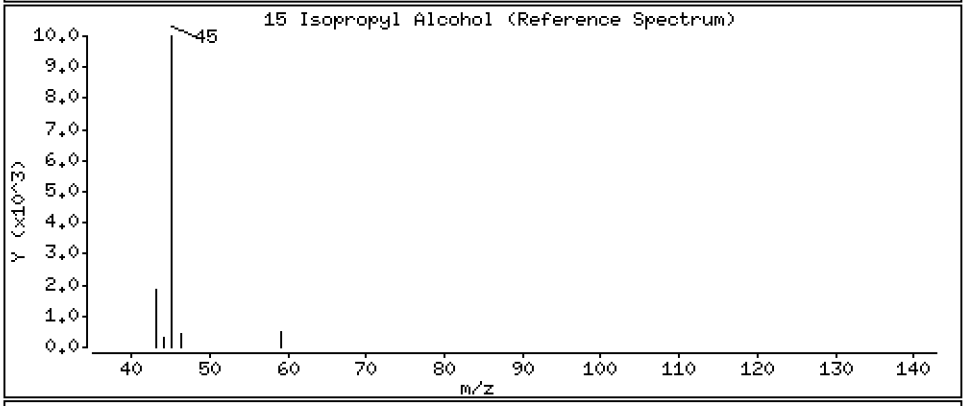
Column phase: DB-VRX Column diameter: 0.25

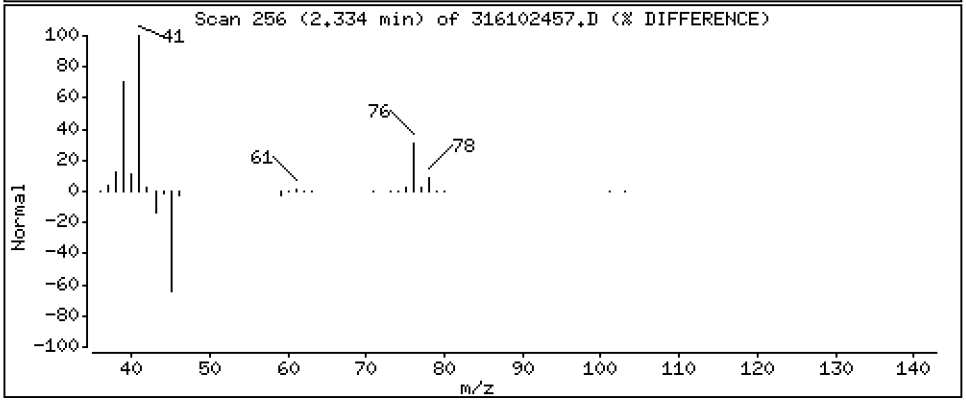
15 Isopropyl Alcohol Concentration: 262.088 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 24

Date : 25-OCT-2016 00:52

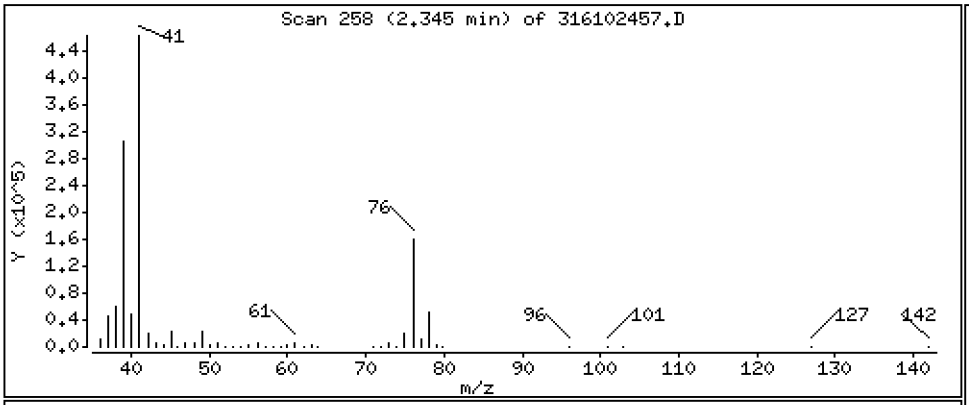
Client ID: Instrument: ms03.i

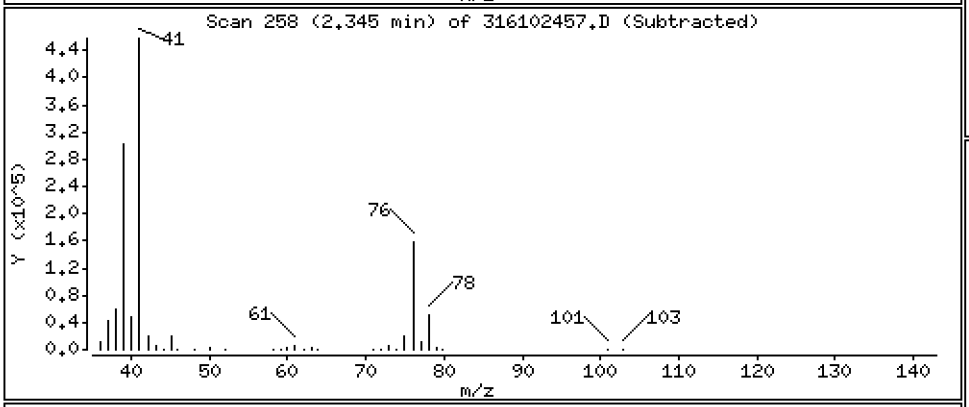
Sample Info: 1237;;1;1;4;;;

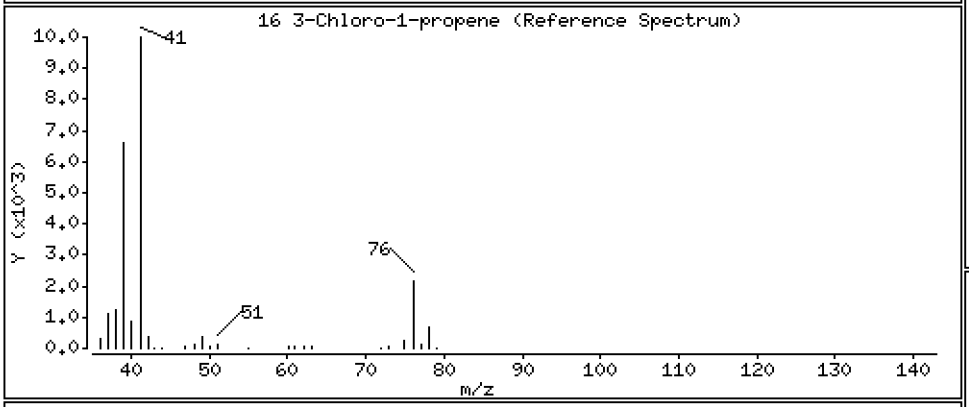
Purge Volume: 5.0 Operator: CJG

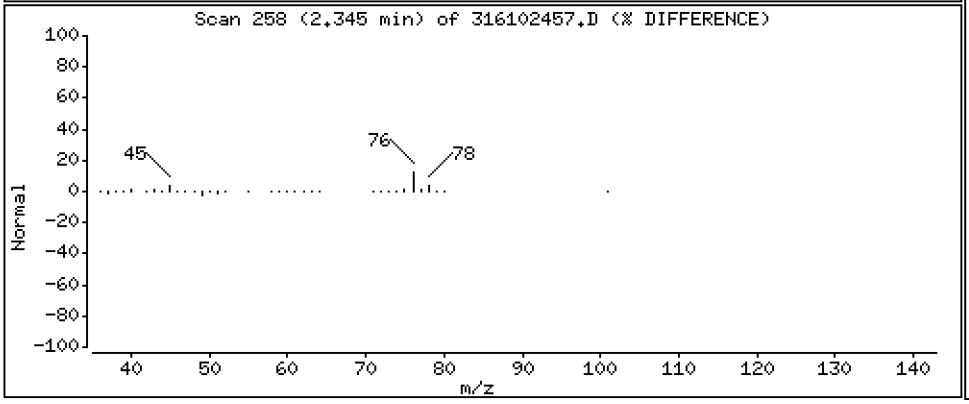
Column phase: DB-VRX Column diameter: 0.25

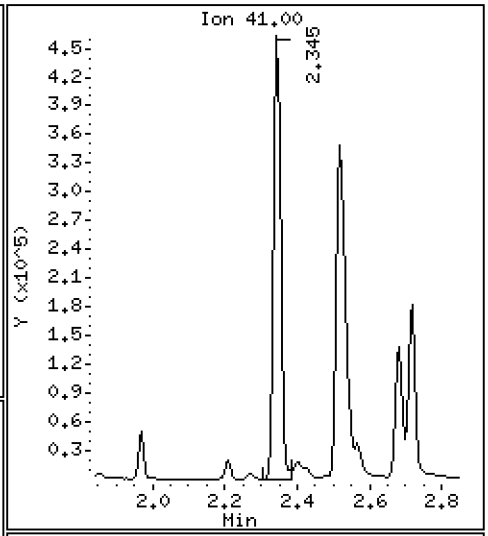
16 3-Chloro-1-propene Concentration: 48.5297 ug/L

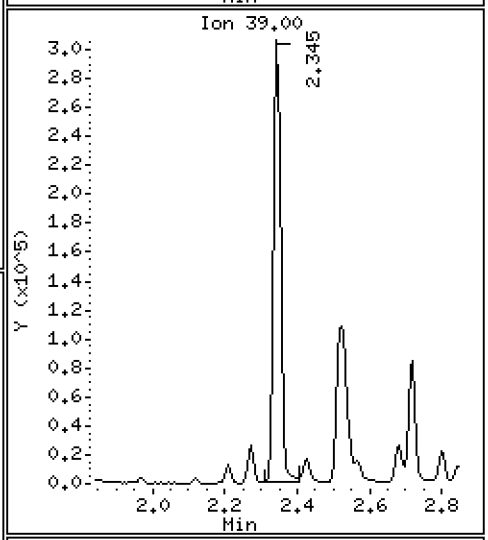


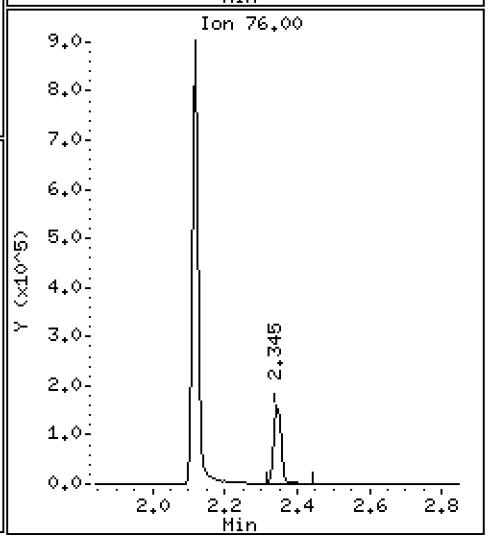












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 25

Date : 25-OCT-2016 00:52

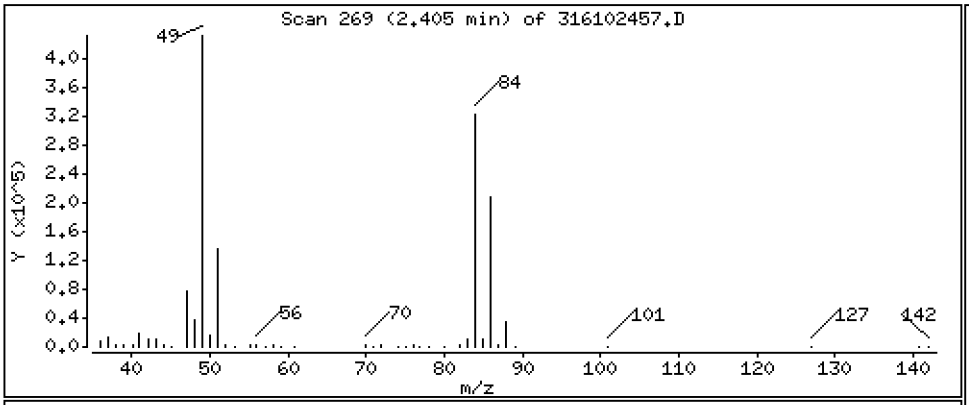
Client ID: Instrument: ms03.i

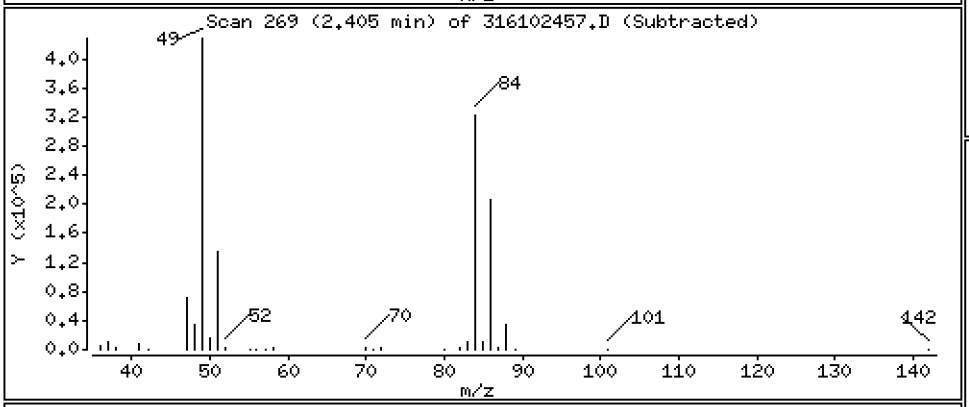
Sample Info: 1237;;1;1;4;;;

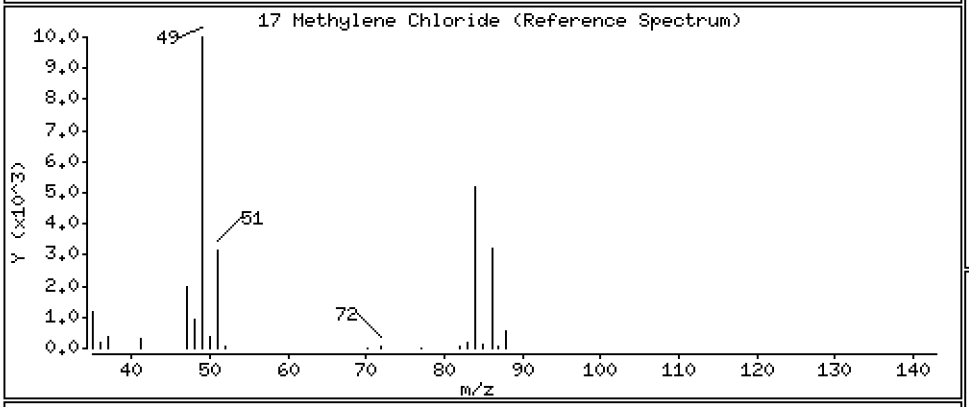
Purge Volume: 5.0 Operator: CJG

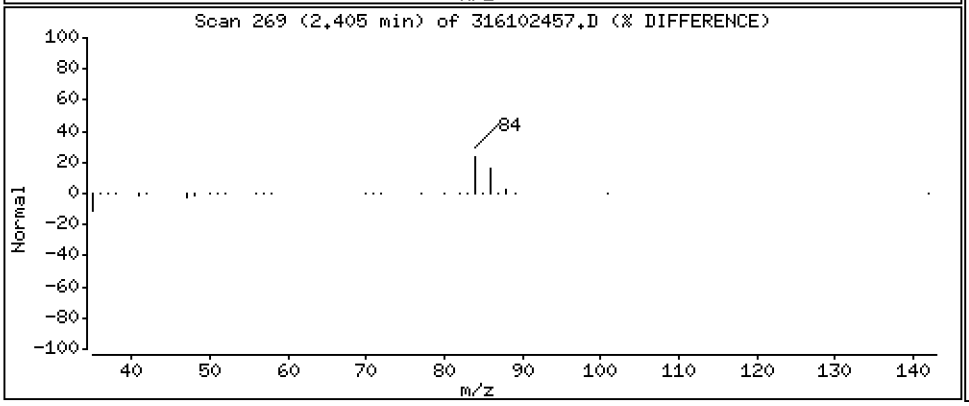
Column phase: DB-VRX Column diameter: 0.25

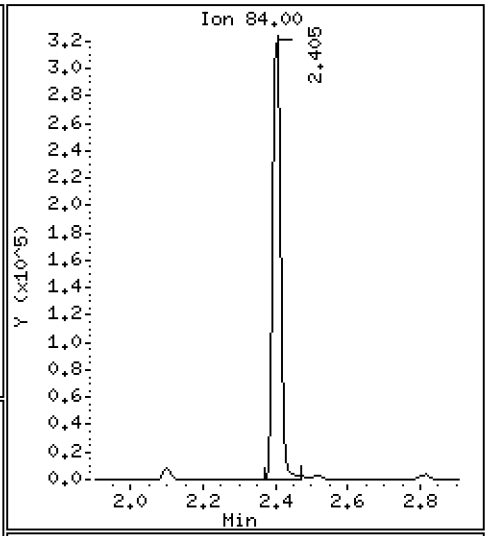
17 Methylene Chloride Concentration: 49.7290 ug/L

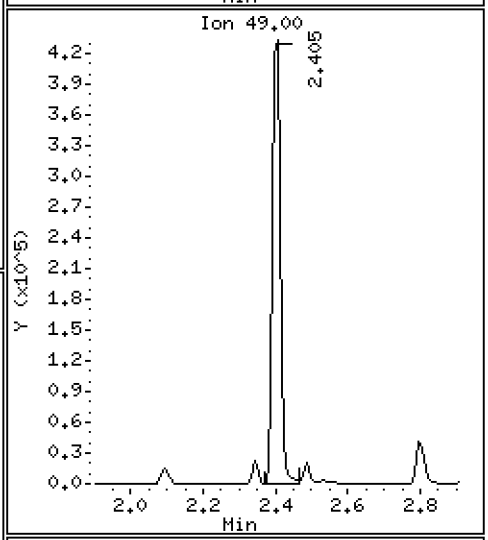


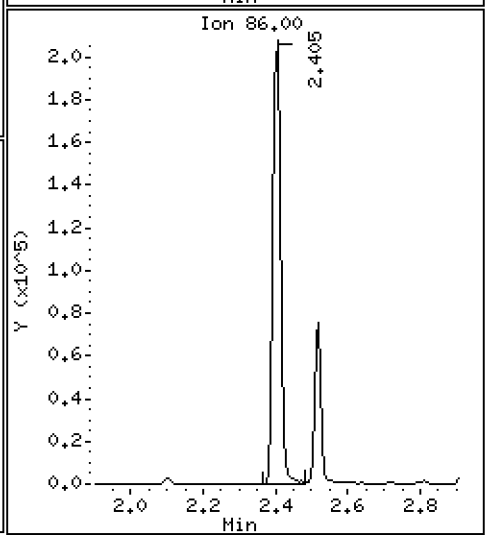












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 26

Date : 25-OCT-2016 00:52

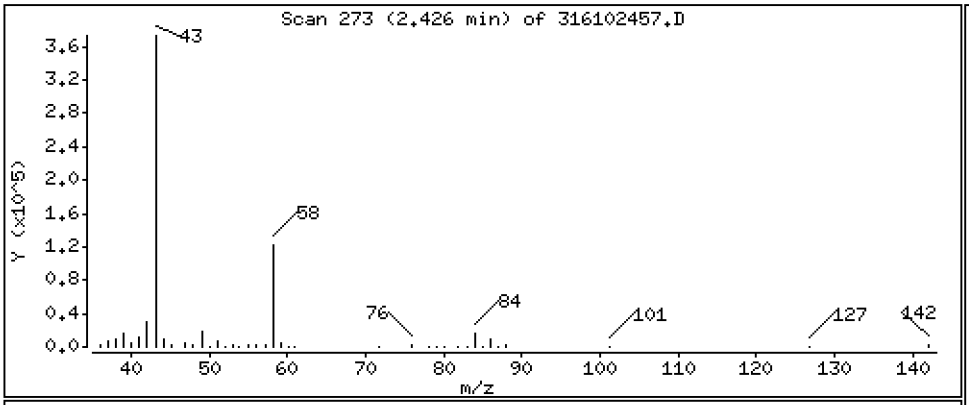
Client ID: Instrument: ms03.i

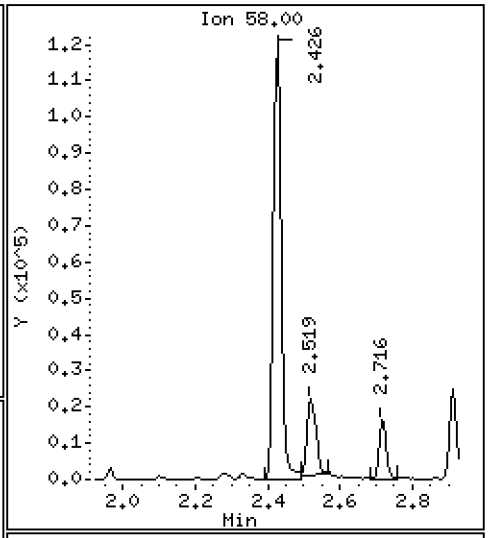
Sample Info: 1237;;1;1;4;;;

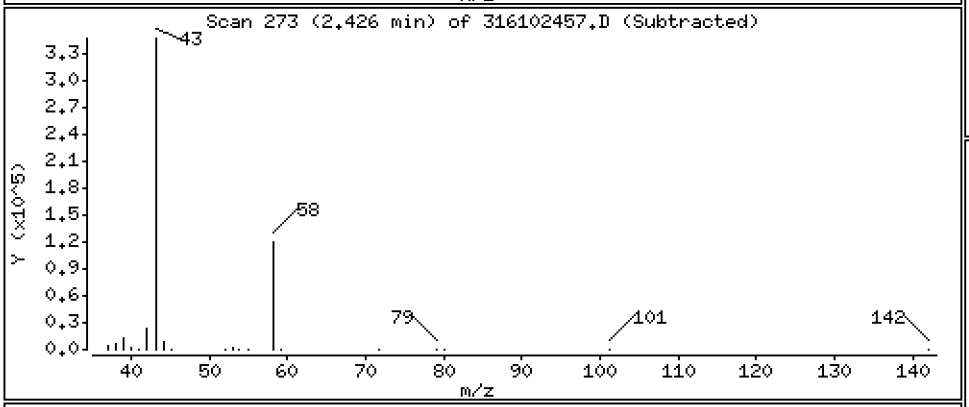
Purge Volume: 5.0 Operator: CJG

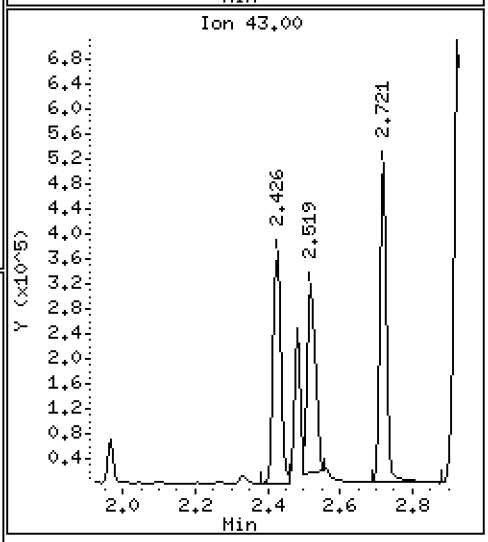
Column phase: DB-VRX Column diameter: 0.25

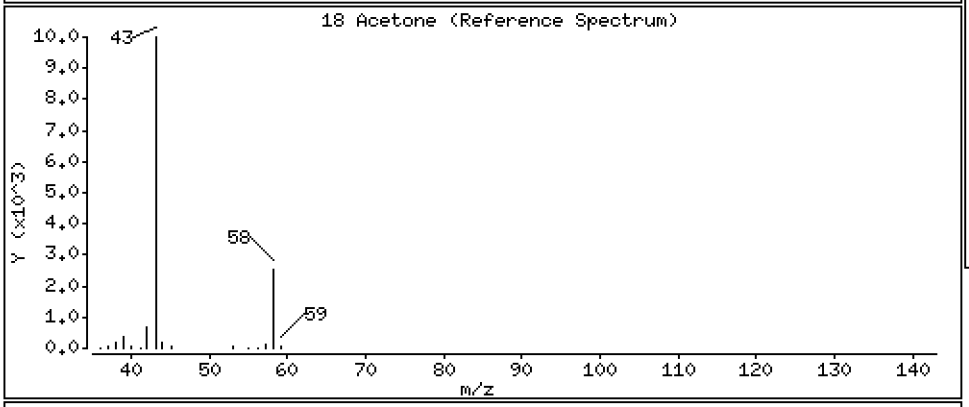
18 Acetone Concentration: 259.021 ug/L

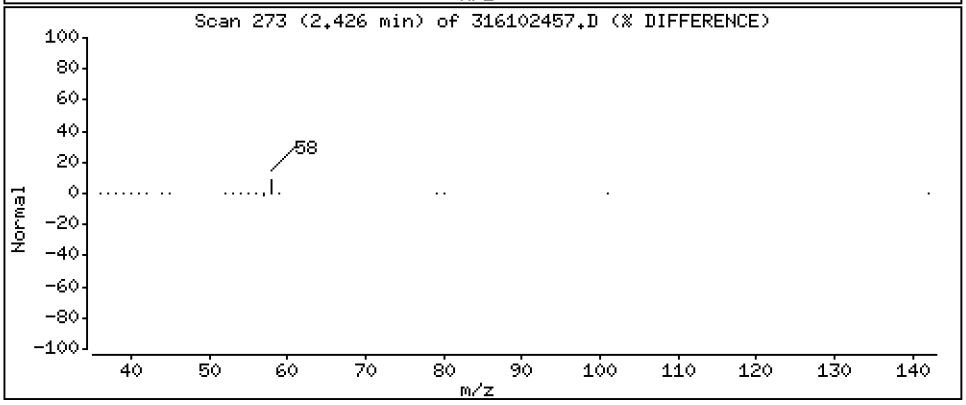












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 27

Date : 25-OCT-2016 00:52

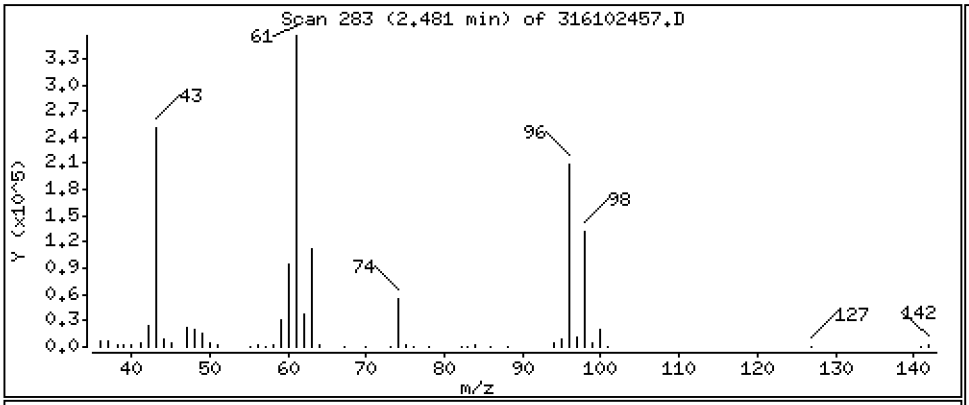
Client ID: Instrument: ms03.i

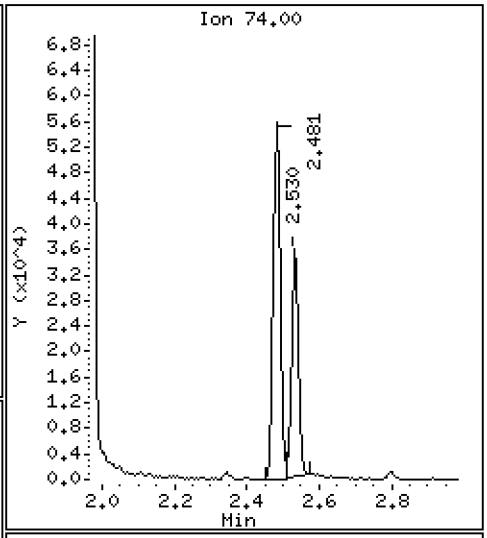
Sample Info: 1237;;1;1;4;;;

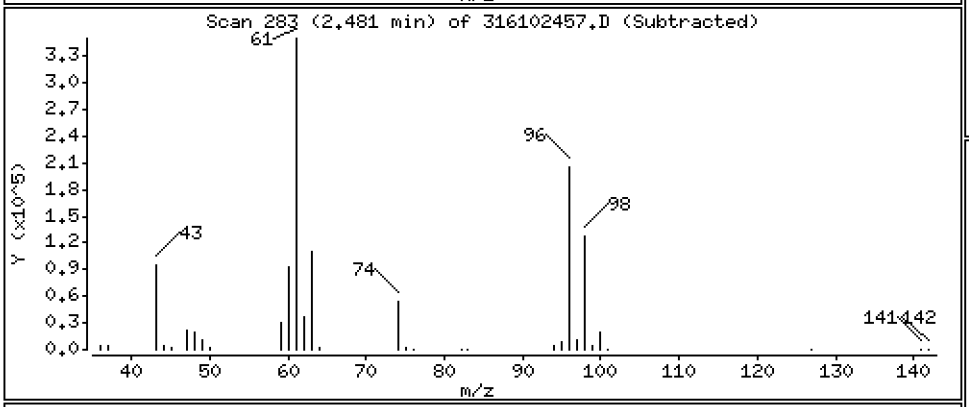
Purge Volume: 5.0 Operator: CJG

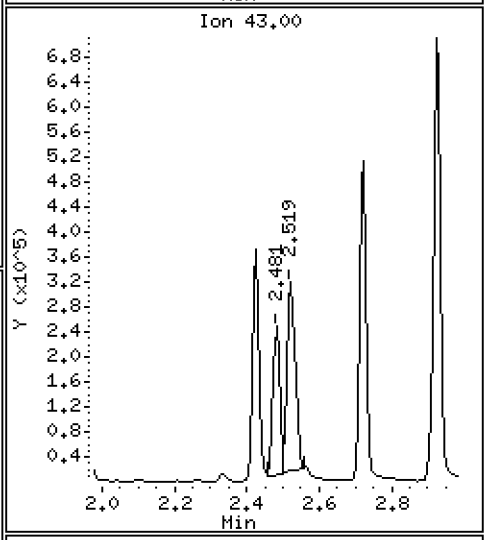
Column phase: DB-VRX Column diameter: 0.25

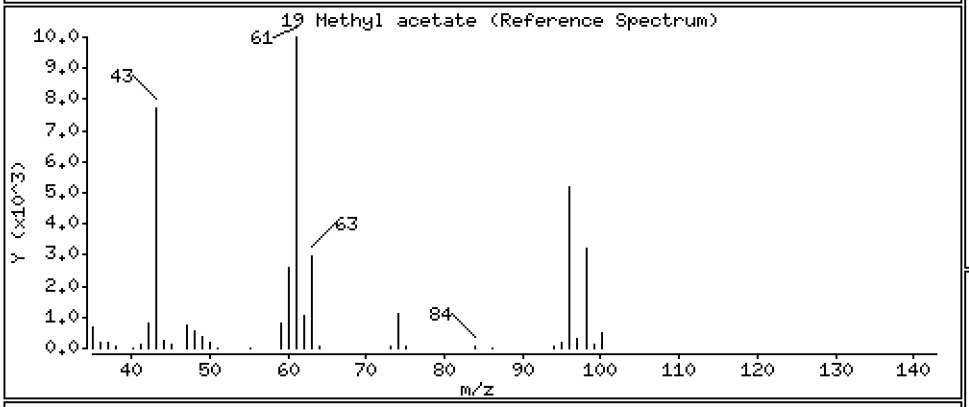
19 Methyl acetate Concentration: 51.5206 ug/L

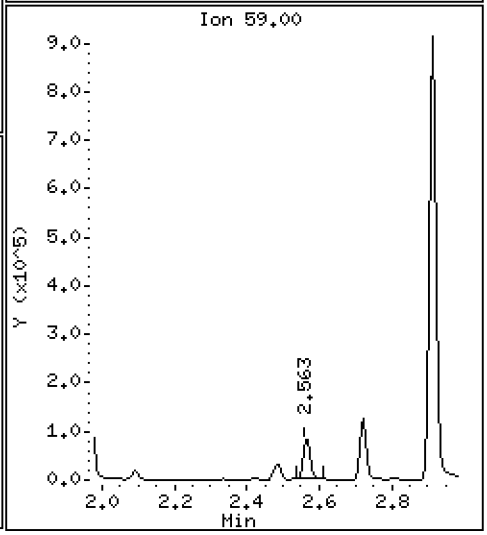


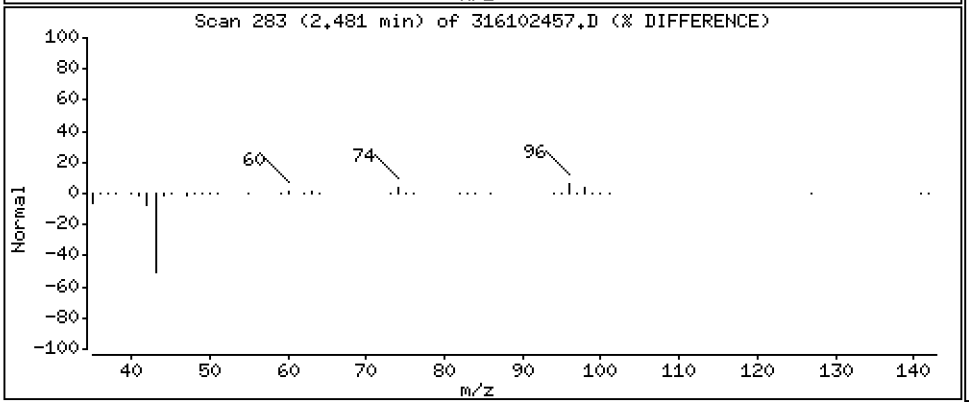












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 28

Date : 25-OCT-2016 00:52

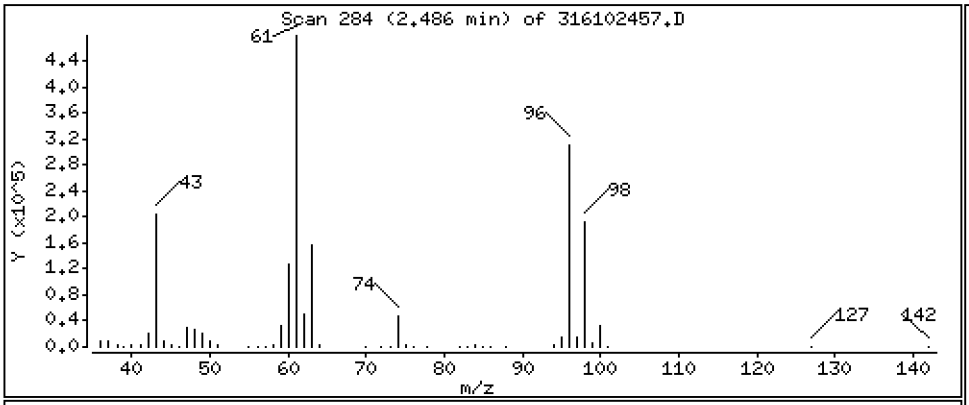
Client ID: Instrument: ms03.i

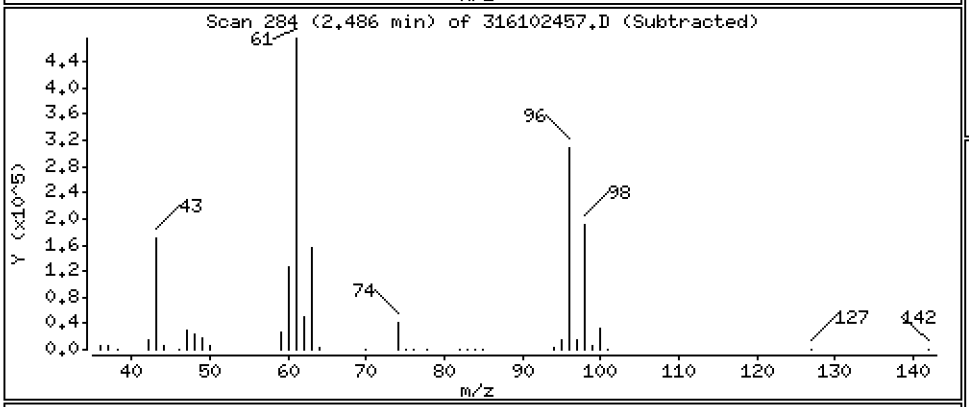
Sample Info: 1237;;1;1;4;;;

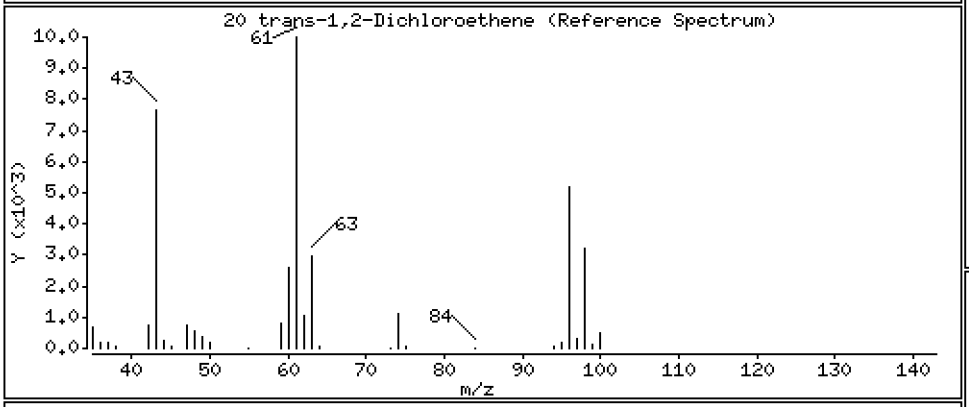
Purge Volume: 5.0 Operator: CJG

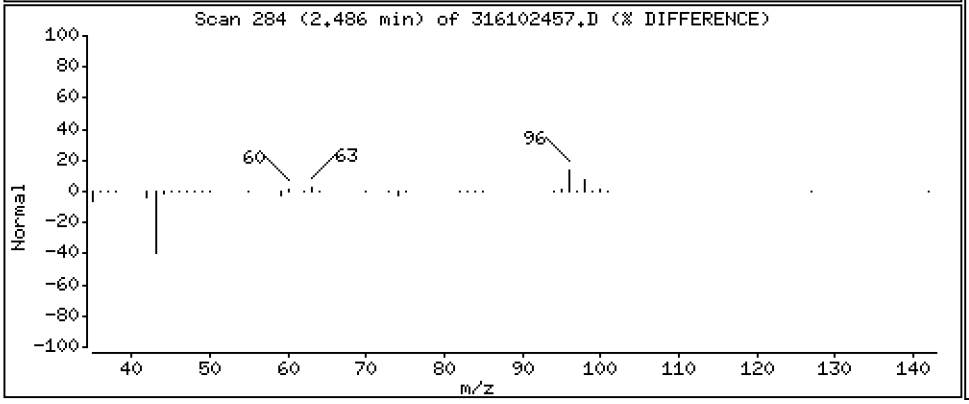
Column phase: DB-VRX Column diameter: 0.25

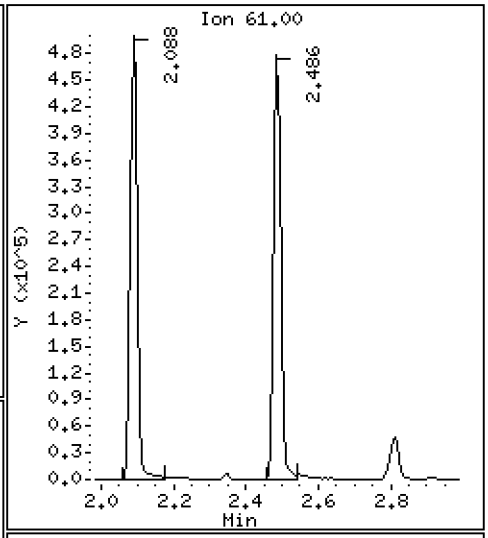
20 trans-1,2-Dichloroethene Concentration: 48.9962 ug/L

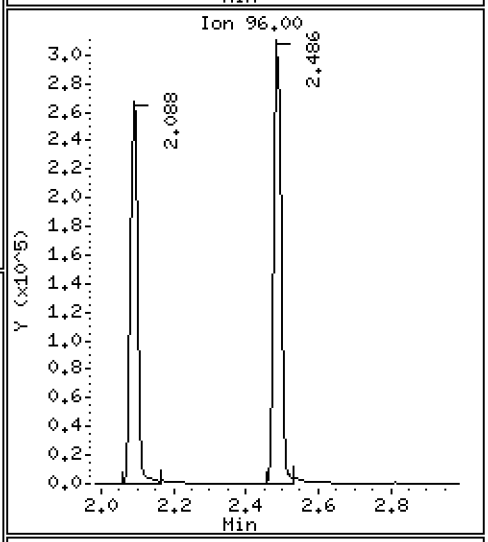


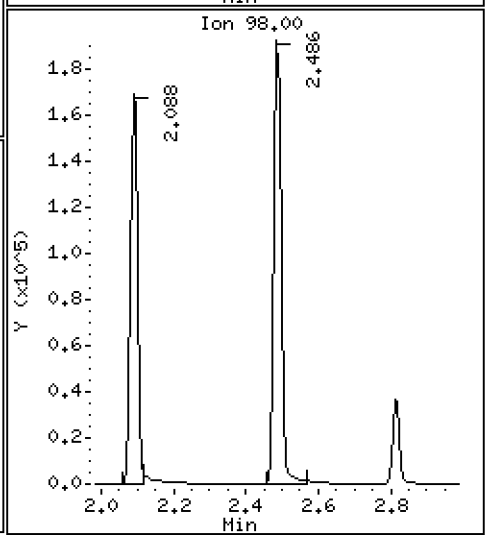












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 29

Date : 25-OCT-2016 00:52

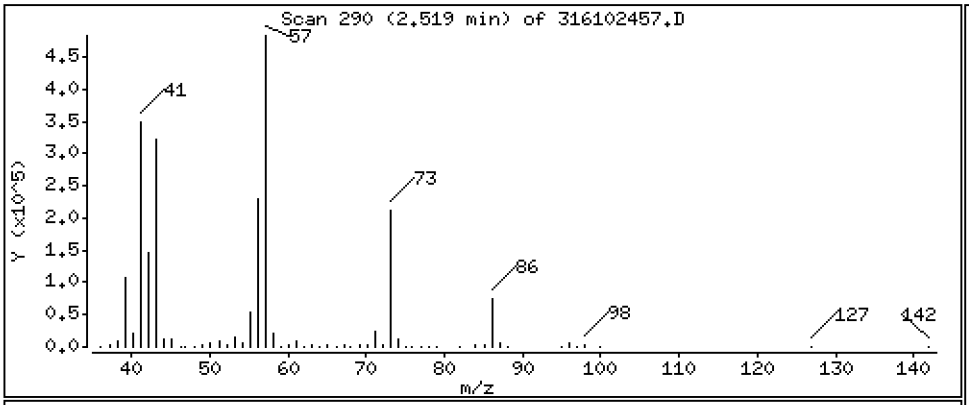
Client ID: Instrument: ms03.i

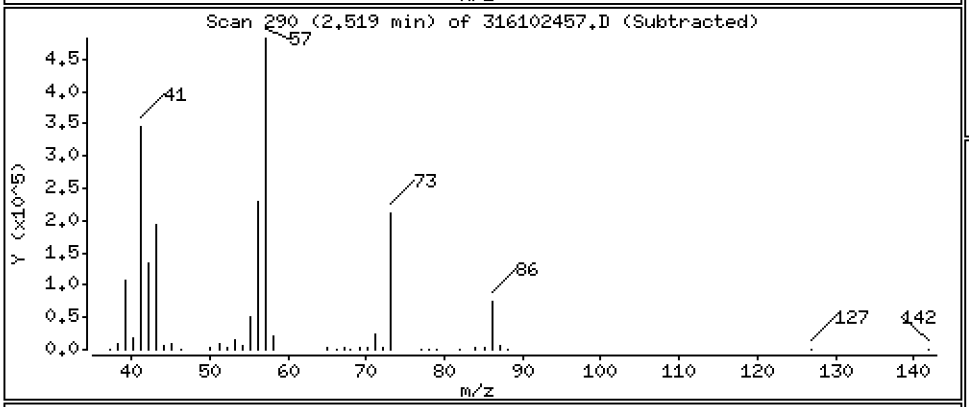
Sample Info: 1237;;1;1;4;;;

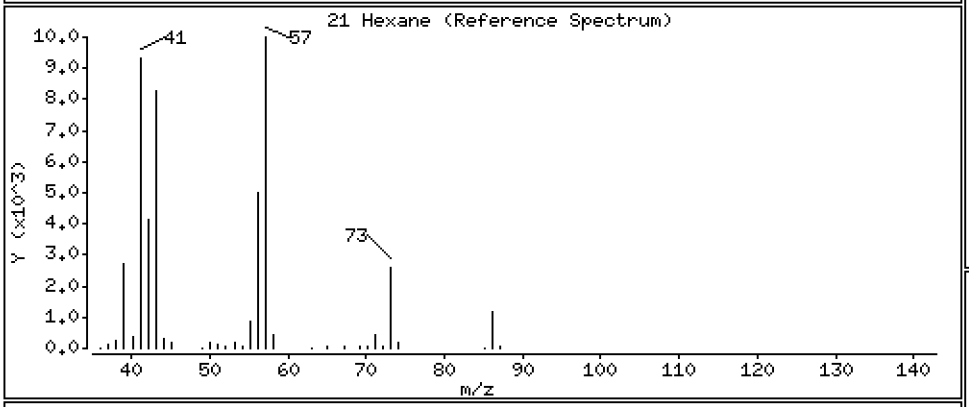
Purge Volume: 5.0 Operator: CJG

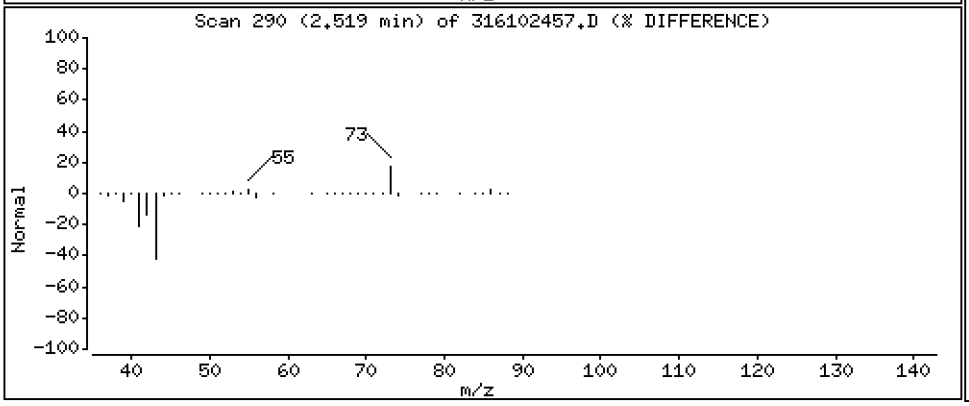
Column phase: DB-VRX Column diameter: 0.25

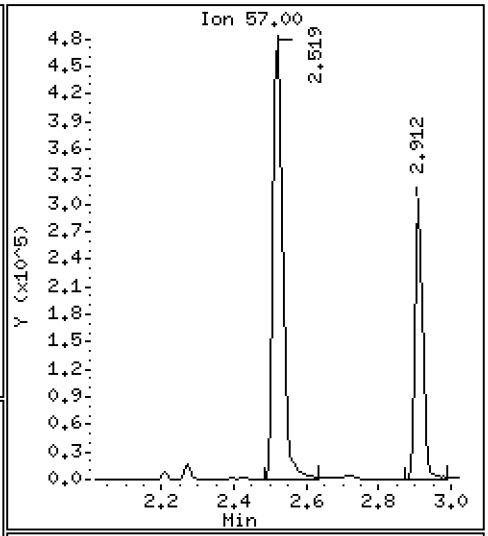
21 Hexane Concentration: 48.6868 ug/L

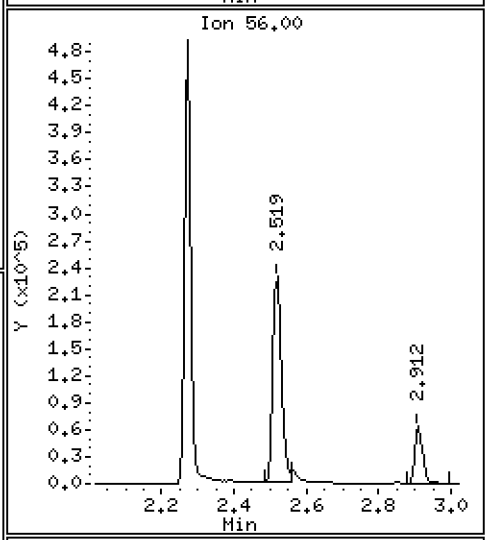


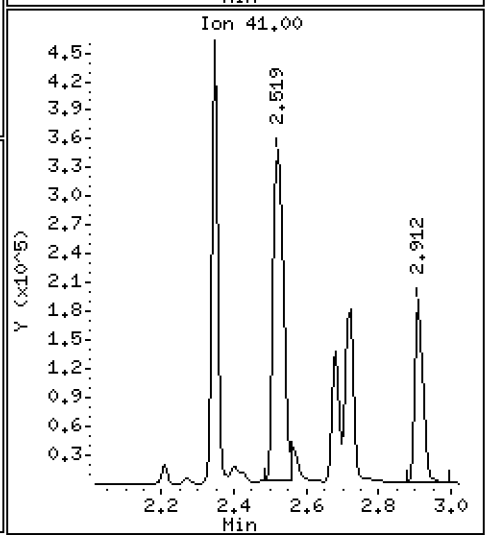












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 30

Date : 25-OCT-2016 00:52

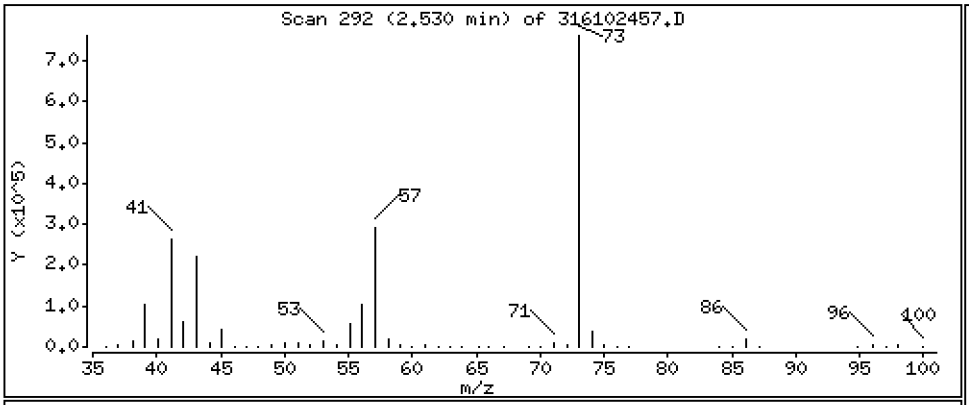
Client ID: Instrument: ms03.i

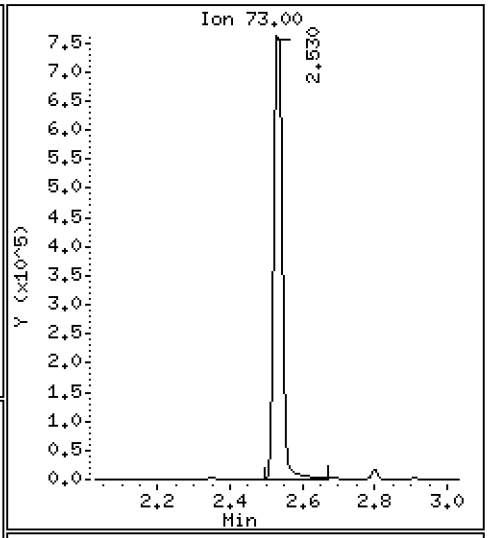
Sample Info: 1237;;1;1;4;;;

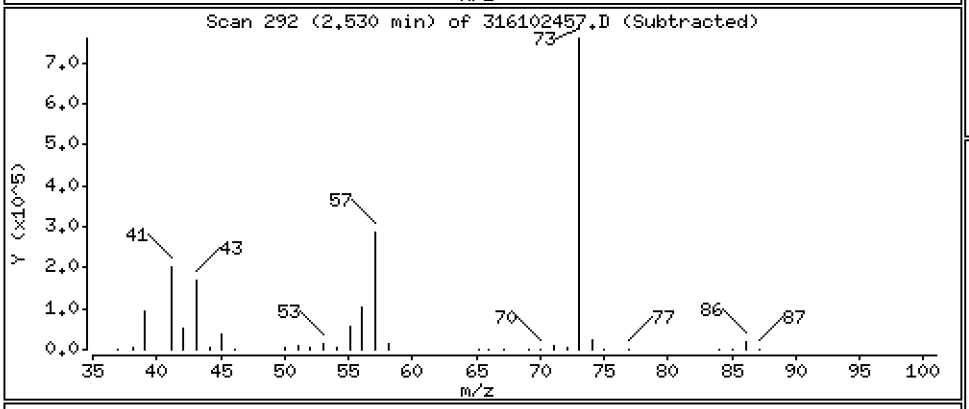
Purge Volume: 5.0 Operator: CJG

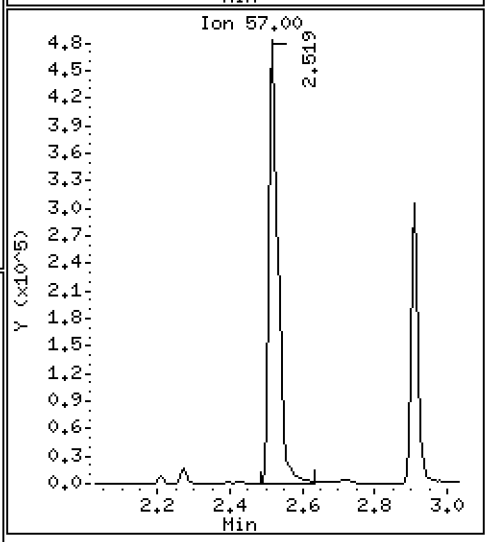
Column phase: DB-VRX Column diameter: 0.25

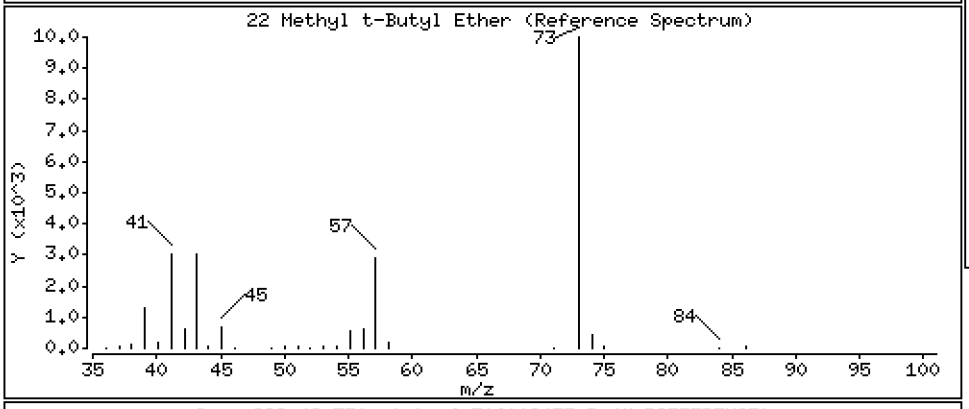
22 Methyl t-Butyl Ether Concentration: 50.2513 ug/L

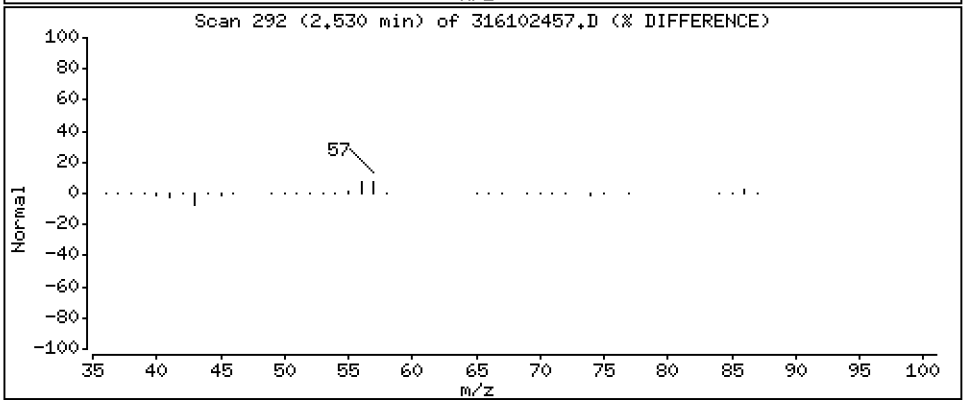












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 31

Date : 25-OCT-2016 00:52

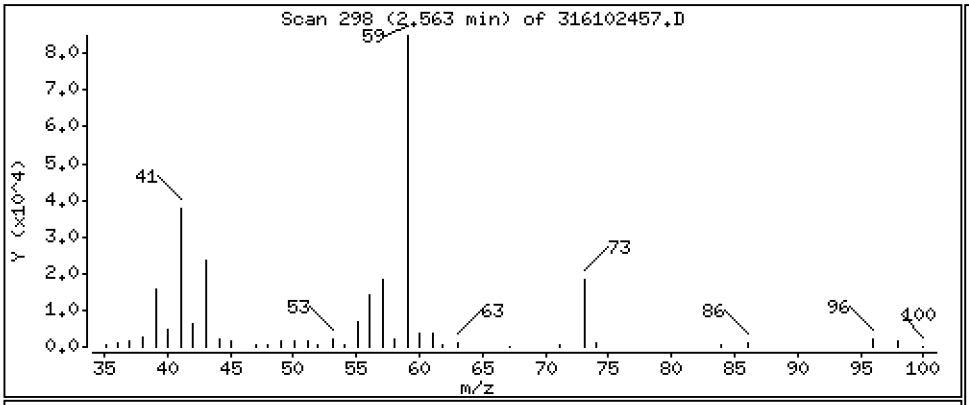
Client ID: Instrument: ms03.i

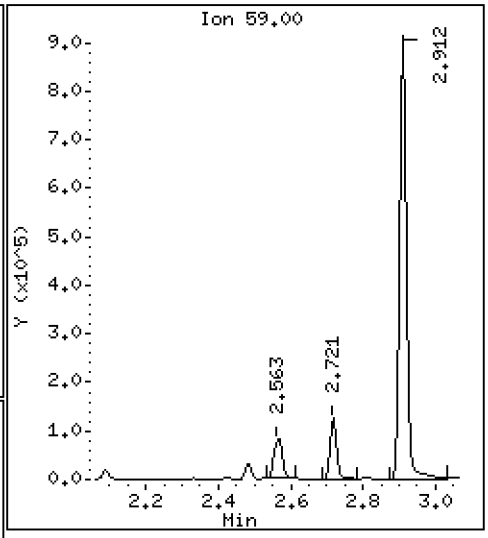
Sample Info: 1237;;1;1;4;;;

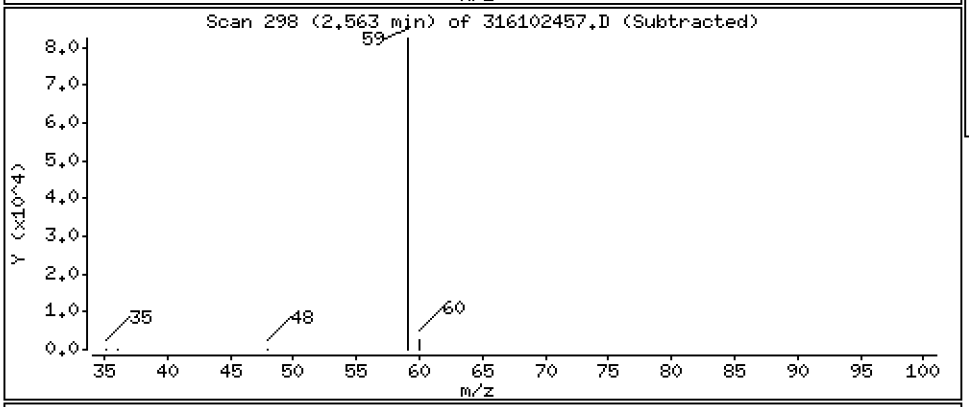
Purge Volume: 5.0 Operator: CJG

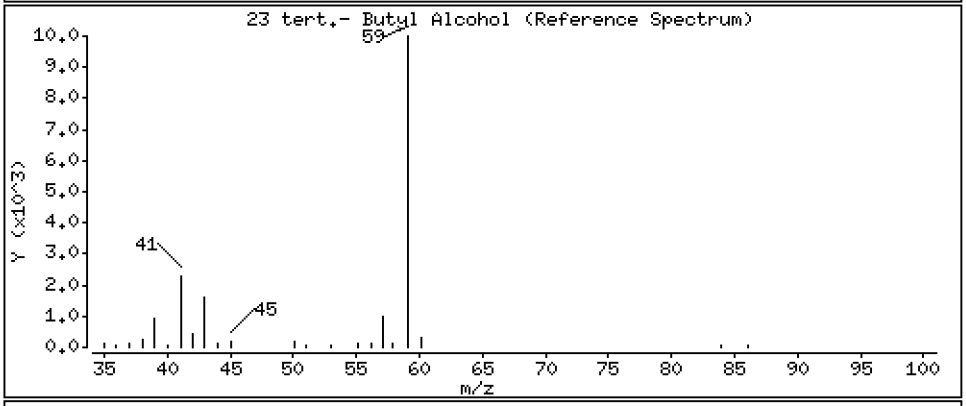
Column phase: DB-VRX Column diameter: 0.25

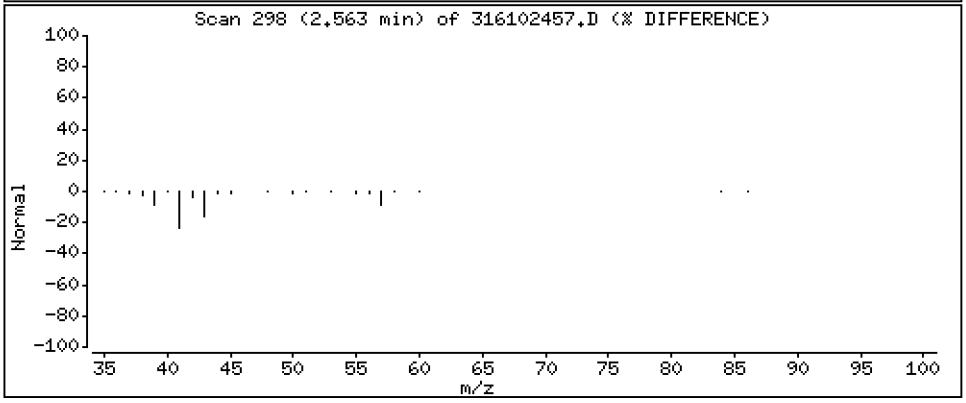
23 tert.- Butyl Alcohol Concentration: 249.972 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 32

Date : 25-OCT-2016 00:52

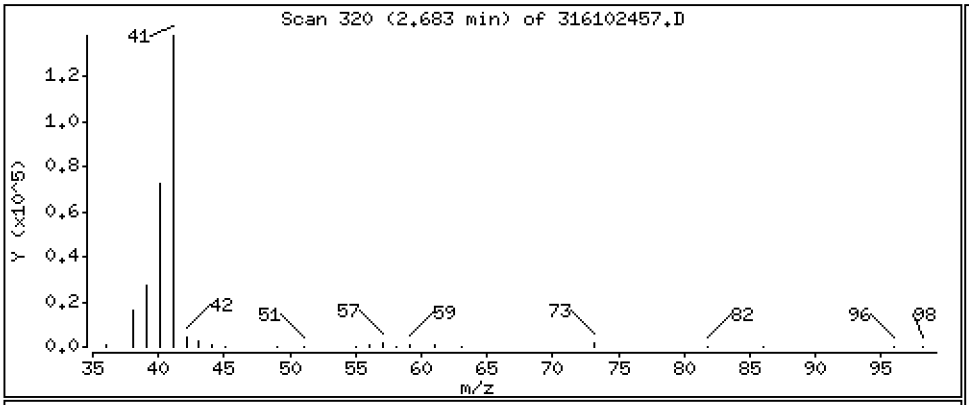
Client ID: Instrument: ms03.i

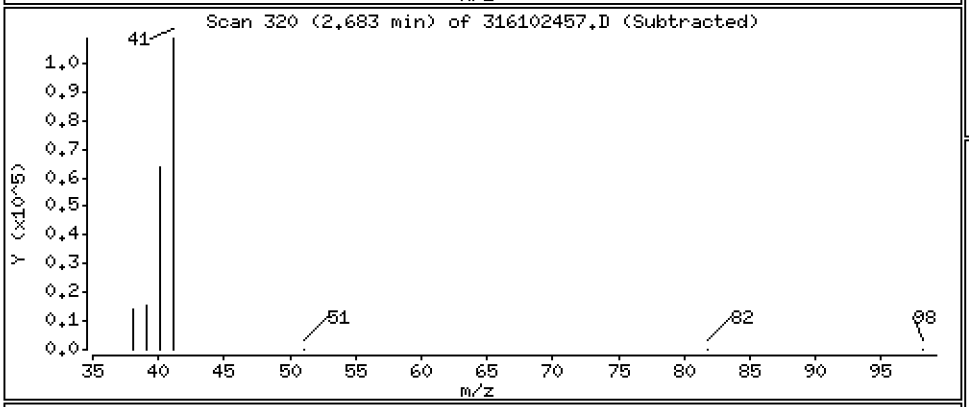
Sample Info: 1237;;1;1;4;;;

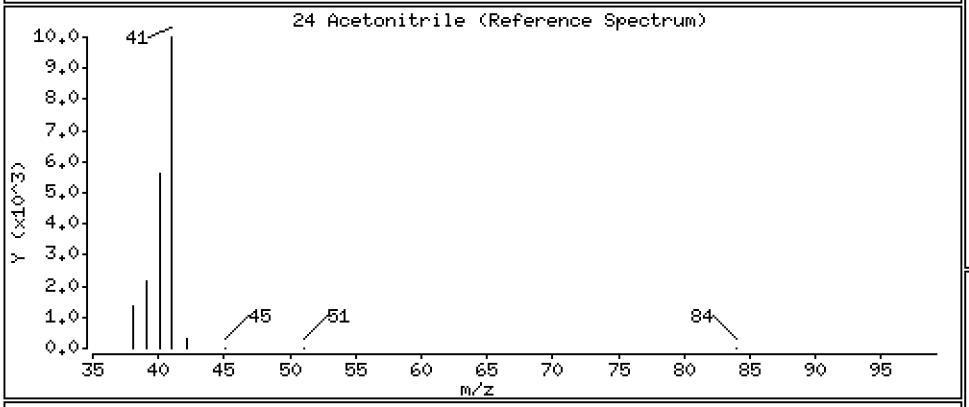
Purge Volume: 5.0 Operator: CJG

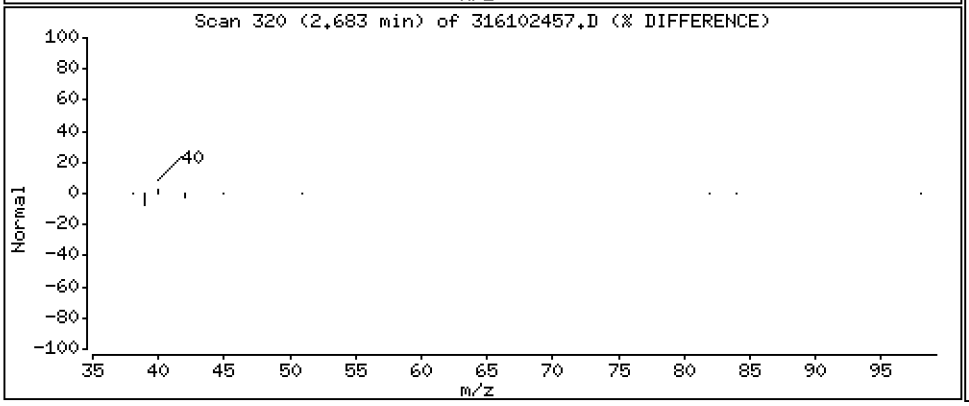
Column phase: DB-VRX Column diameter: 0.25

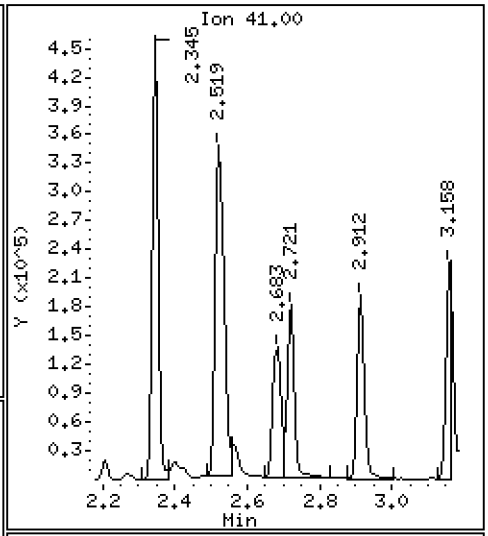
24 Acetonitrile Concentration: 255.971 ug/L

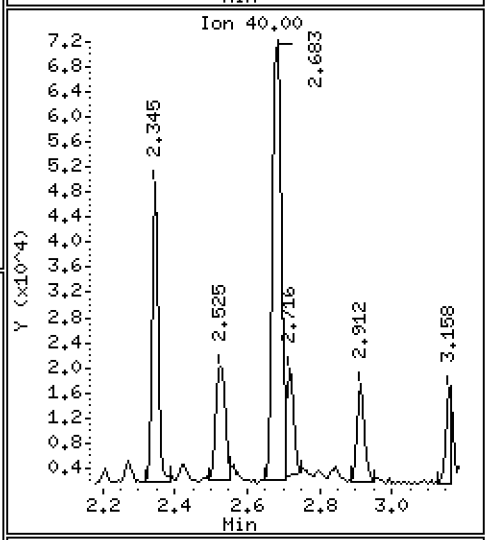


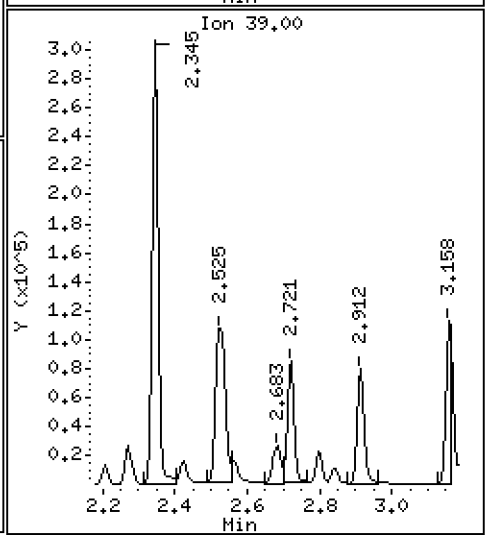












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 33

Date : 25-OCT-2016 00:52

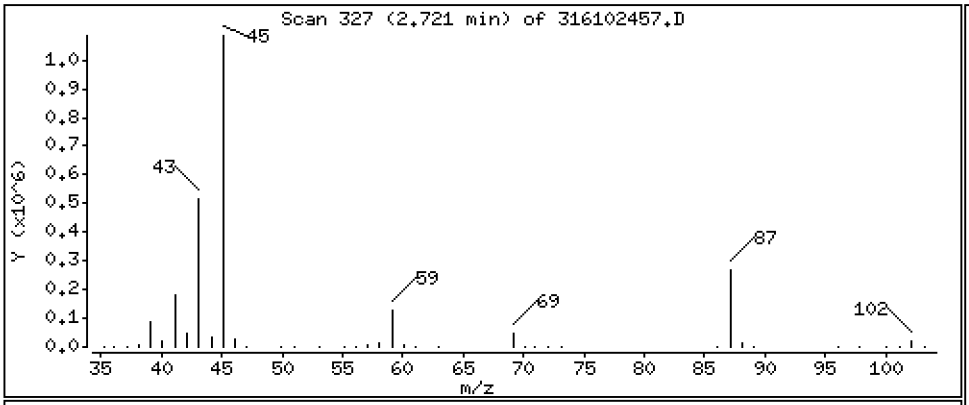
Client ID: Instrument: ms03.i

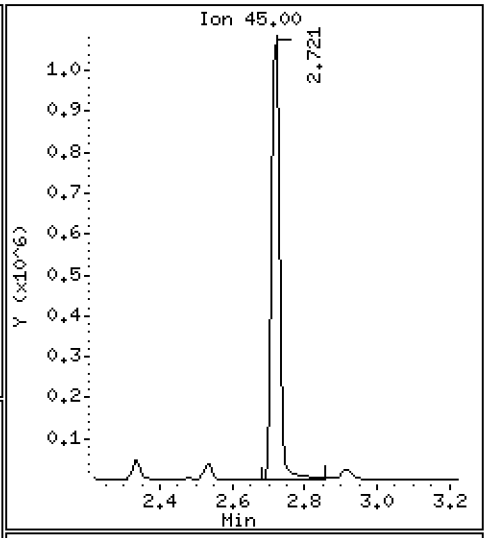
Sample Info: 1237;;1;1;4;;;

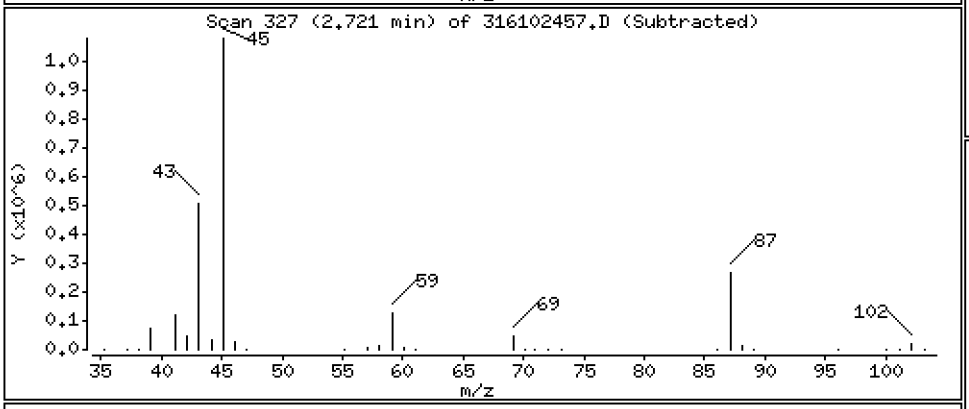
Purge Volume: 5.0 Operator: CJG

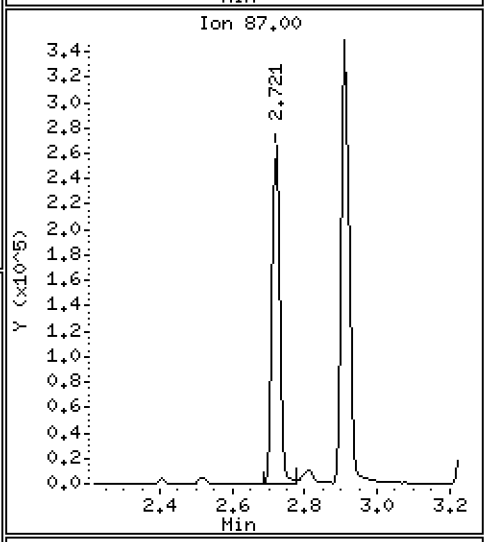
Column phase: DB-VRX Column diameter: 0.25

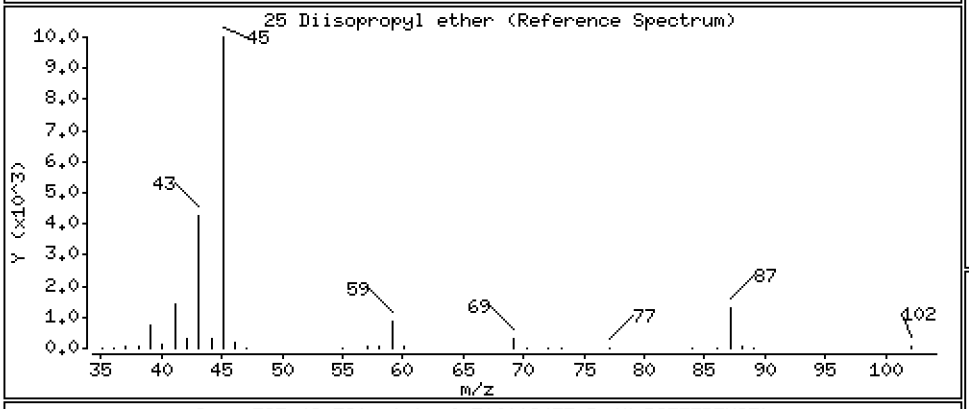
25 Diisopropyl ether Concentration: 49.8459 ug/L

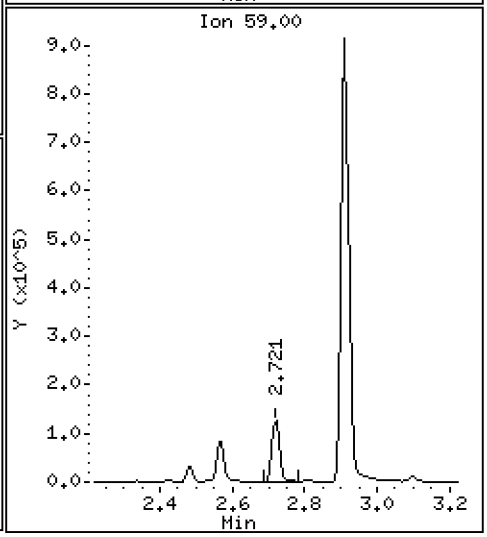


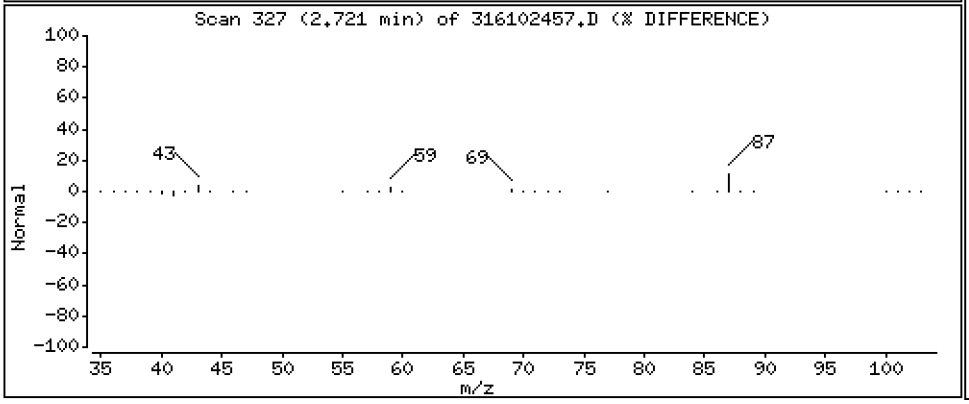












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 34

Date : 25-OCT-2016 00:52

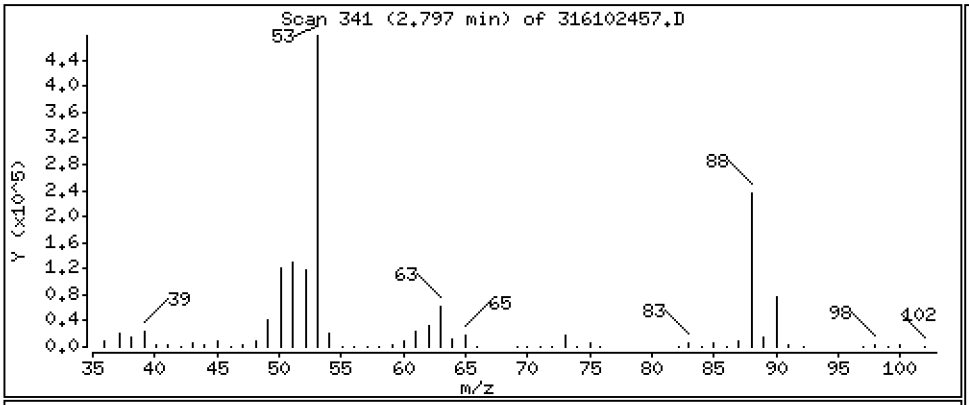
Client ID: Instrument: ms03.i

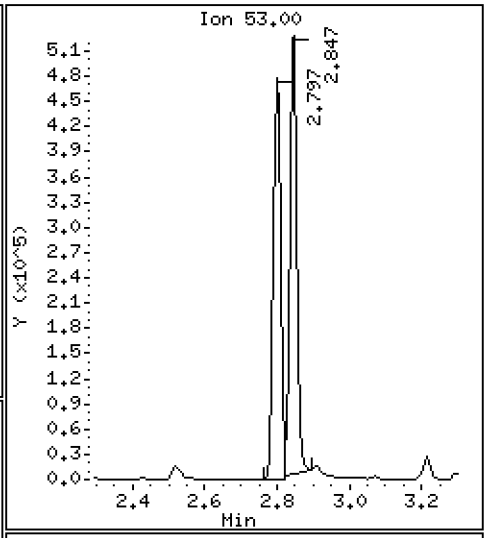
Sample Info: 1237;;1;1;4;;;

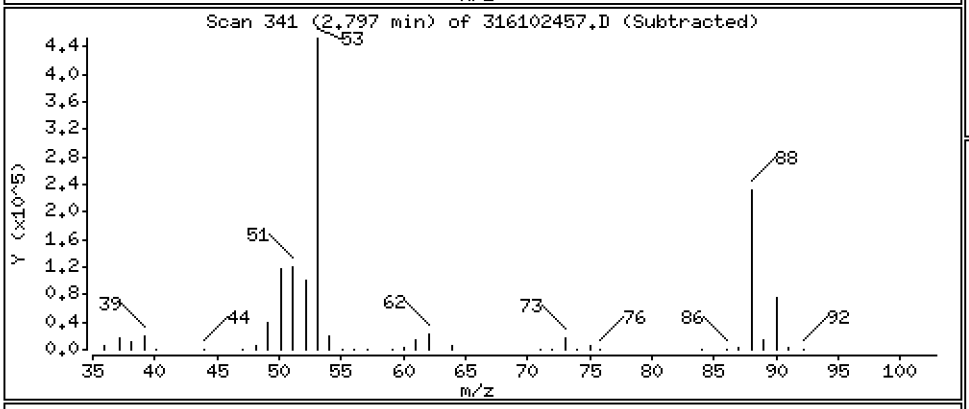
Purge Volume: 5.0 Operator: CJG

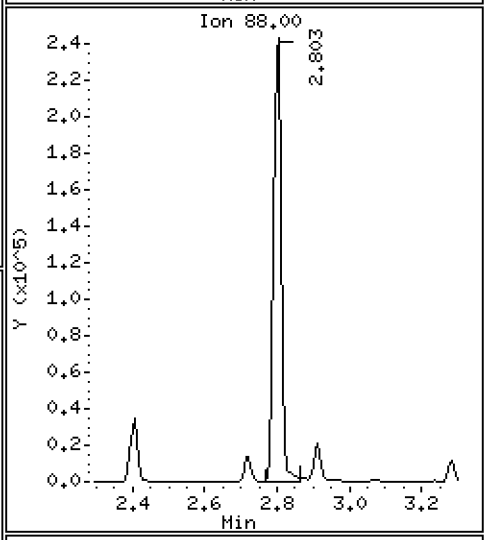
Column phase: DB-VRX Column diameter: 0.25

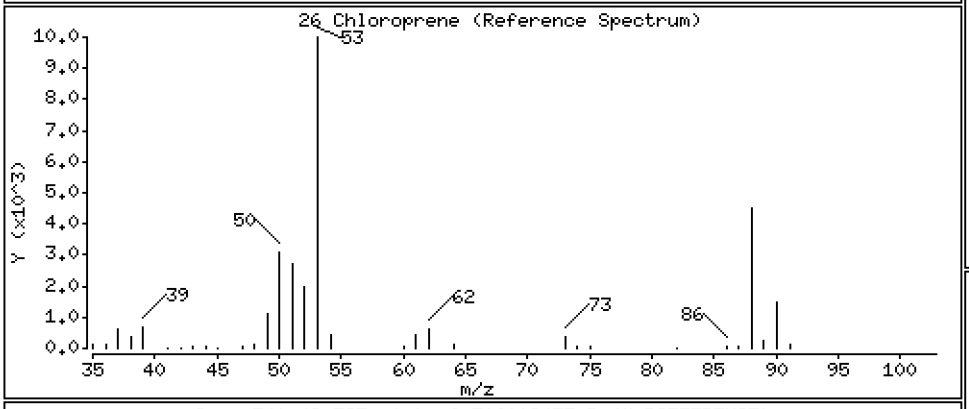
26 Chloroprene Concentration: 49.6179 ug/L

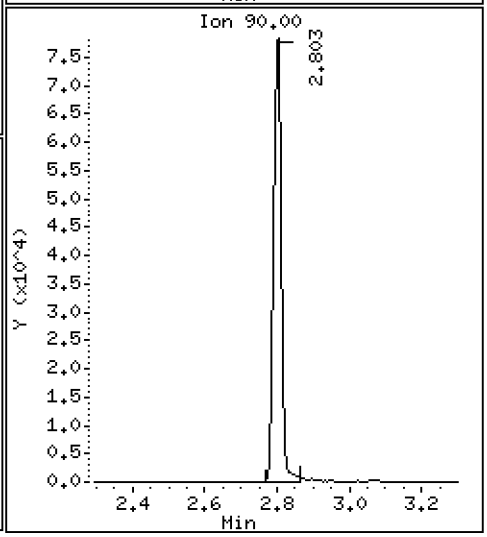


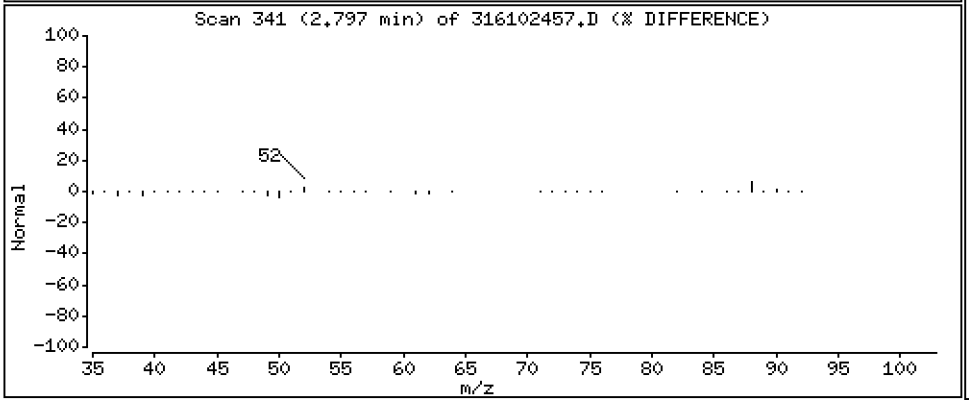












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 35

Date : 25-OCT-2016 00:52

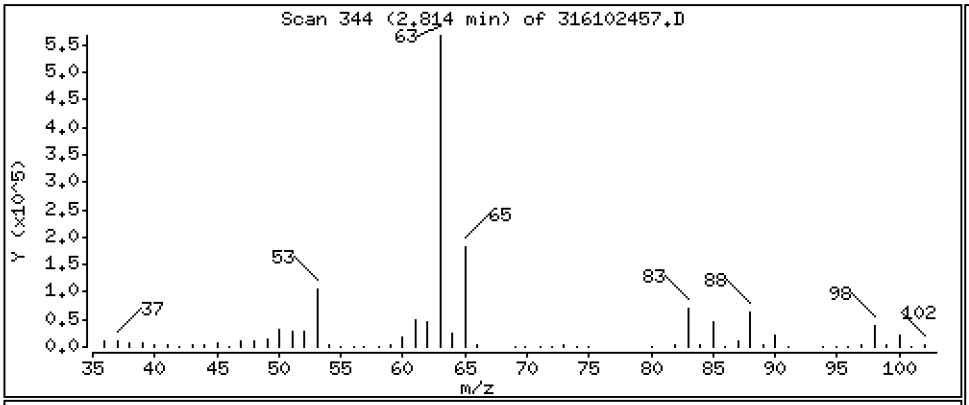
Client ID: Instrument: ms03.i

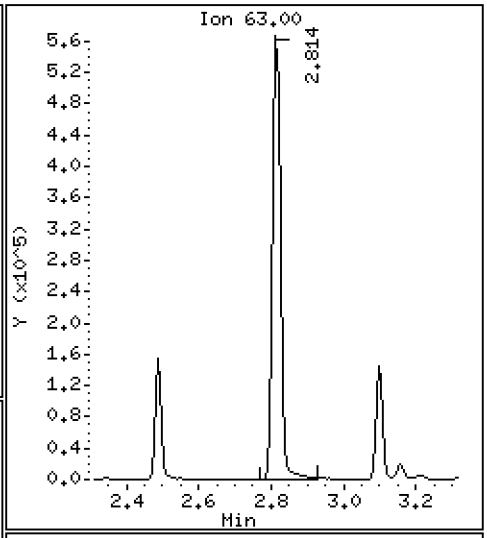
Sample Info: 1237;;1;1;4;;;

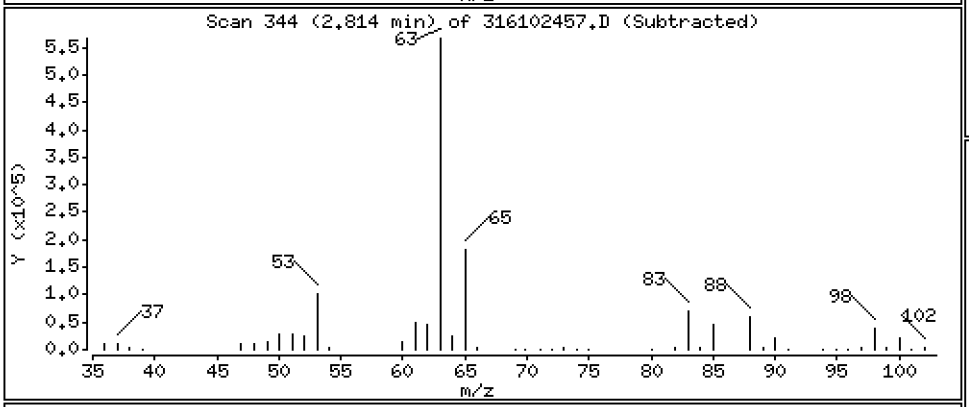
Purge Volume: 5.0 Operator: CJG

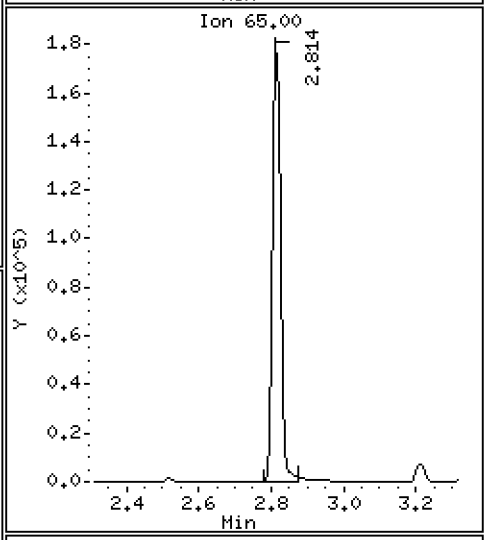
Column phase: DB-VRX Column diameter: 0.25

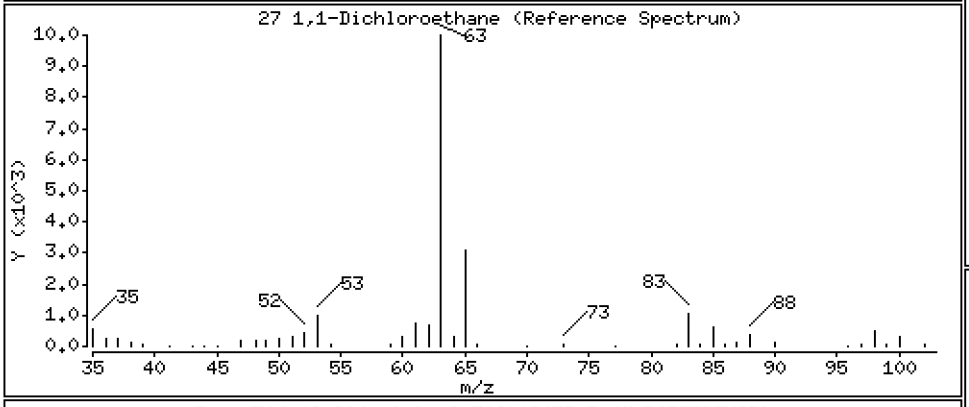
27 1,1-Dichloroethane Concentration: 50.1512 ug/L

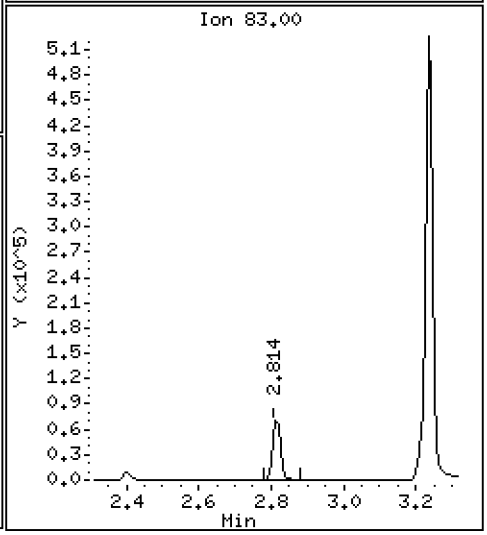


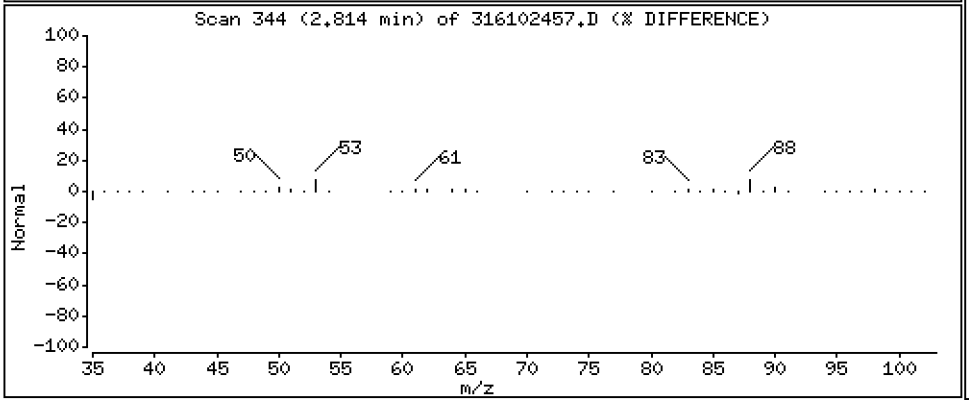












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 36

Date : 25-OCT-2016 00:52

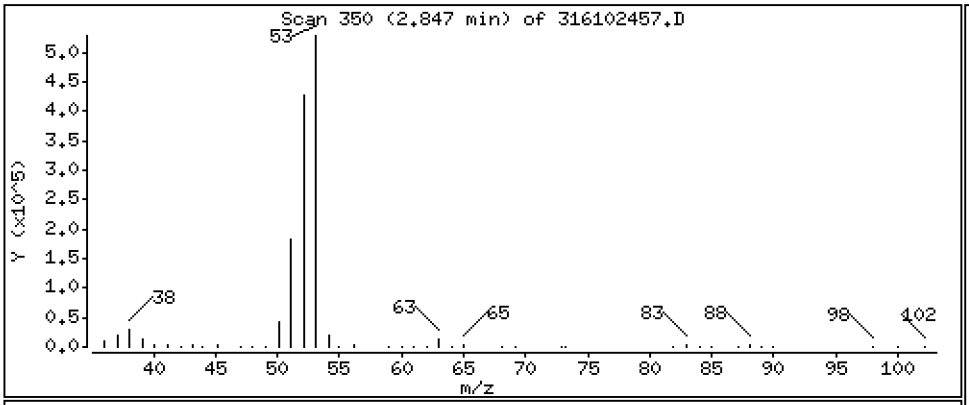
Client ID: Instrument: ms03.i

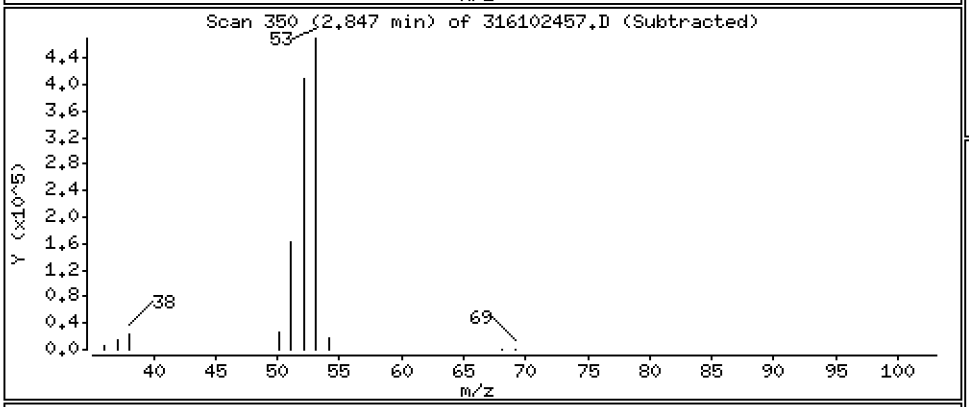
Sample Info: 1237;;1;1;4;;;

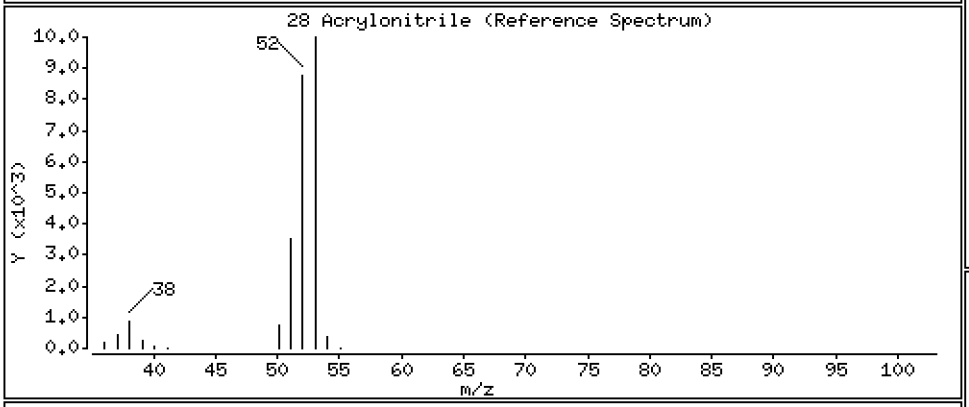
Purge Volume: 5.0 Operator: CJG

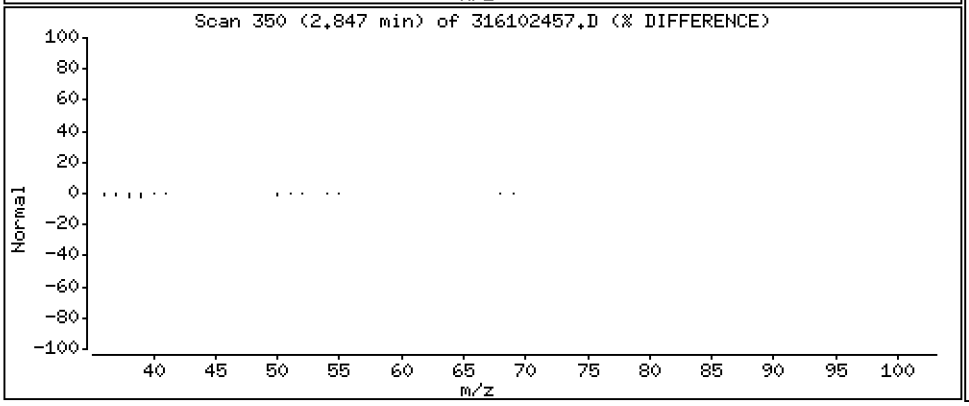
Column phase: DB-VRX Column diameter: 0.25

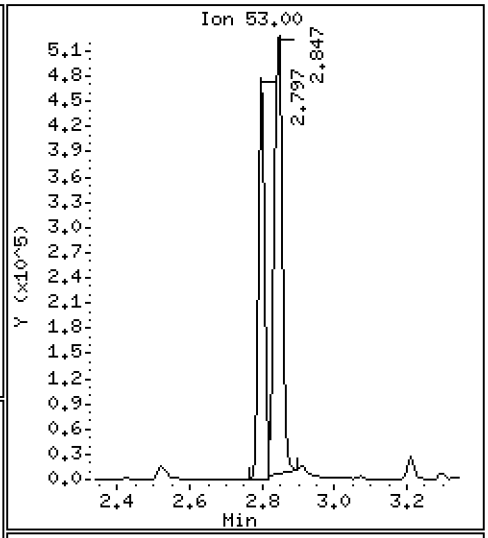
28 Acrylonitrile Concentration: 250.124 ug/L

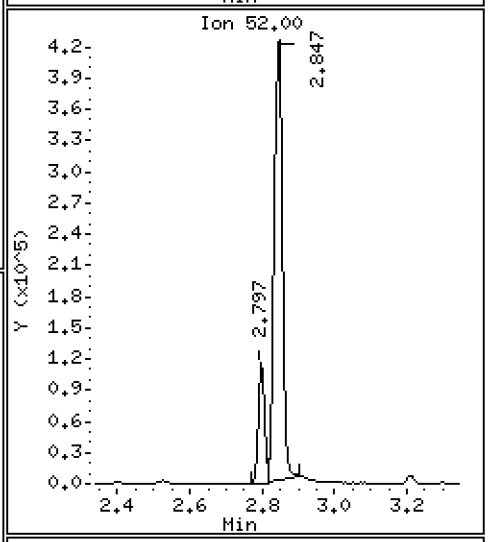


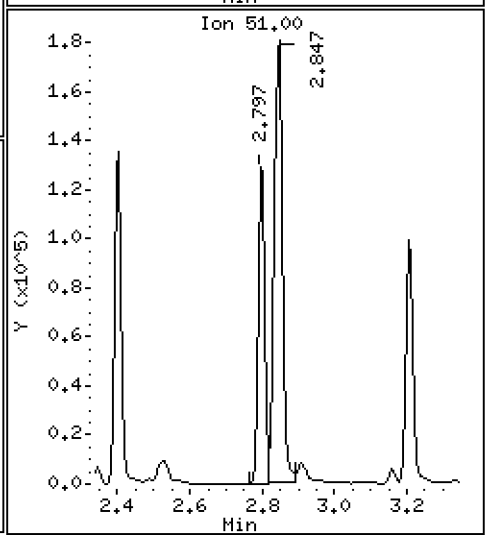












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 37

Date : 25-OCT-2016 00:52

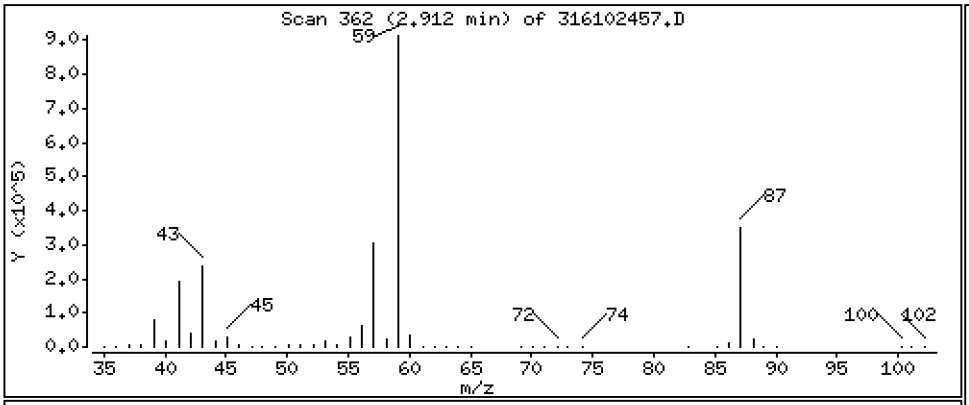
Client ID: Instrument: ms03.i

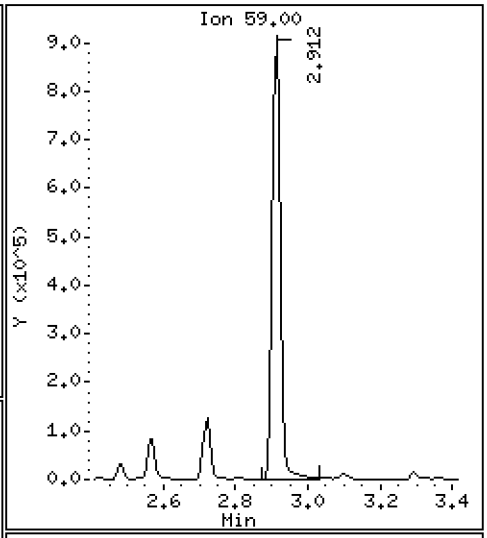
Sample Info: 1237;;1;1;4;;;

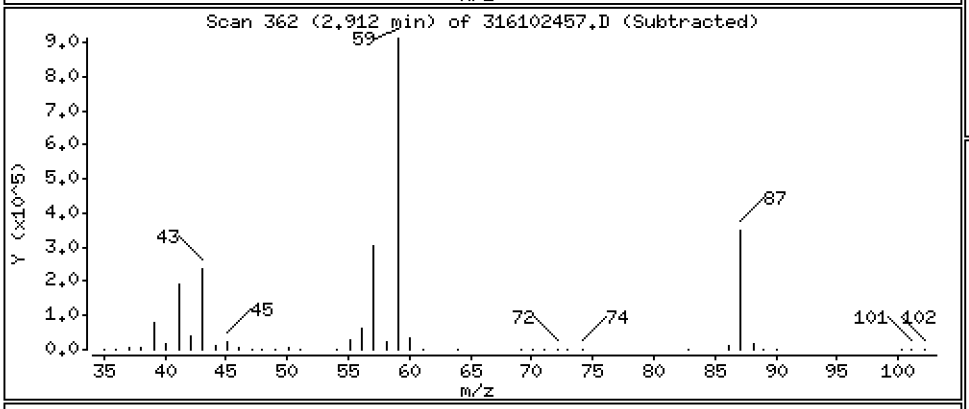
Purge Volume: 5.0 Operator: CJG

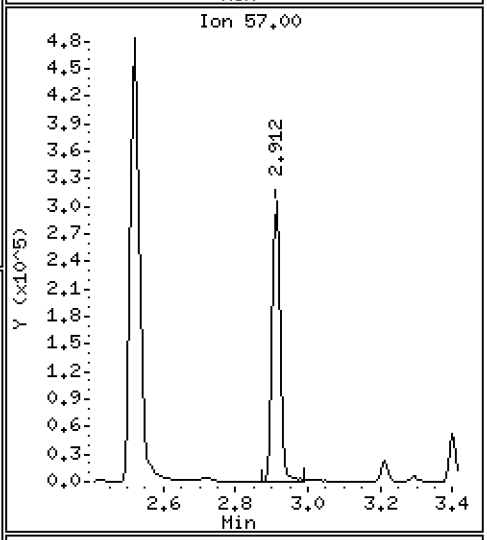
Column phase: DB-VRX Column diameter: 0.25

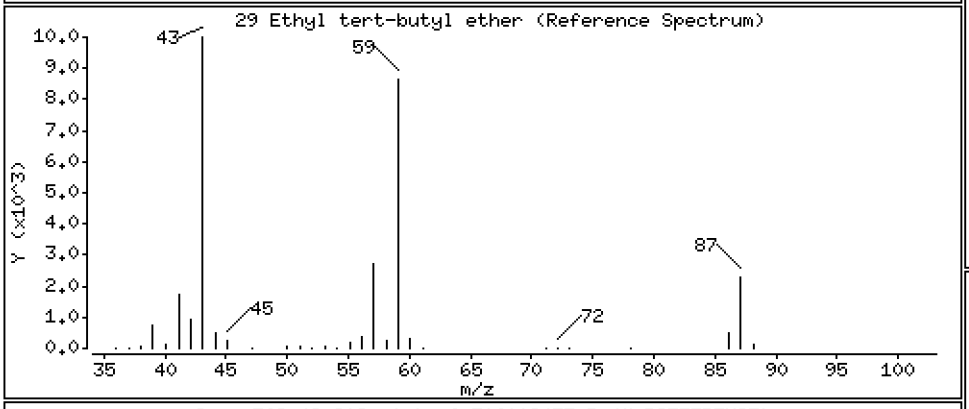
29 Ethyl tert-butyl ether Concentration: 49.5113 ug/L

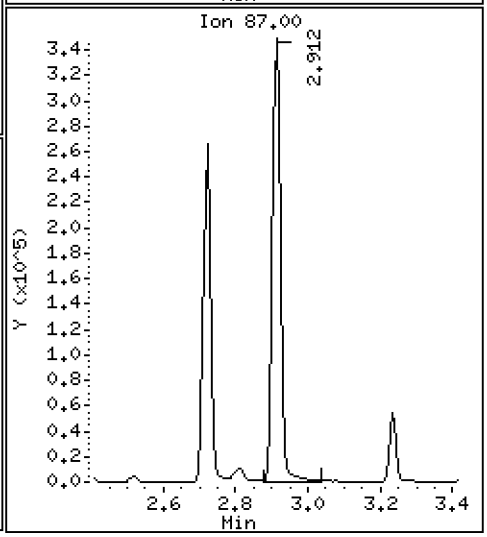


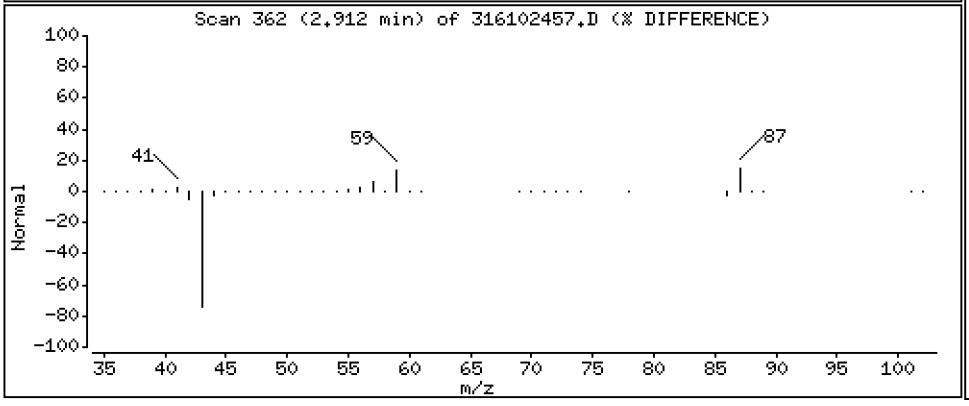












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 38

Date : 25-OCT-2016 00:52

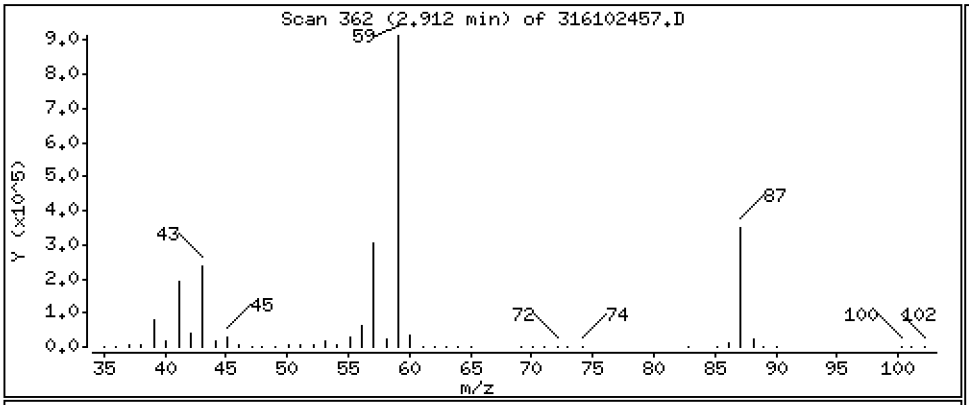
Client ID: Instrument: ms03.i

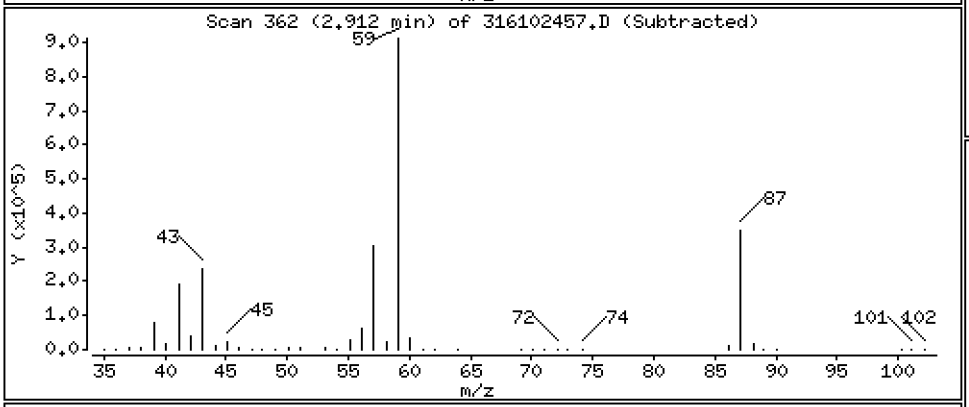
Sample Info: 1237;;1;1;4;;;

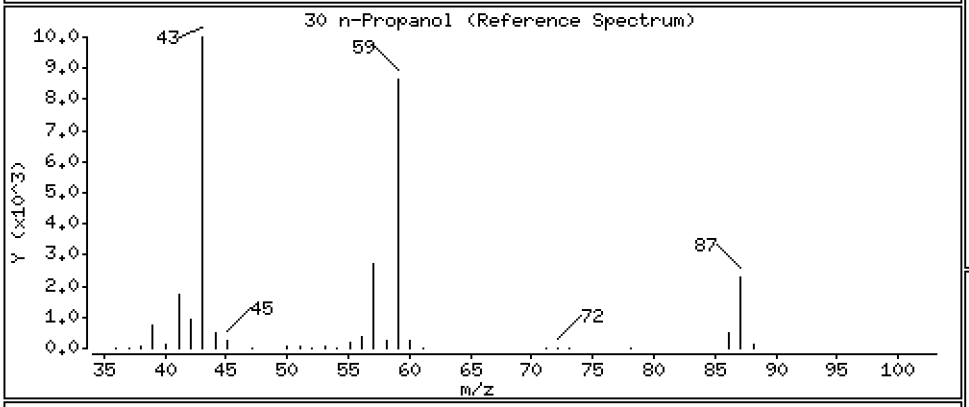
Purge Volume: 5.0 Operator: CJG

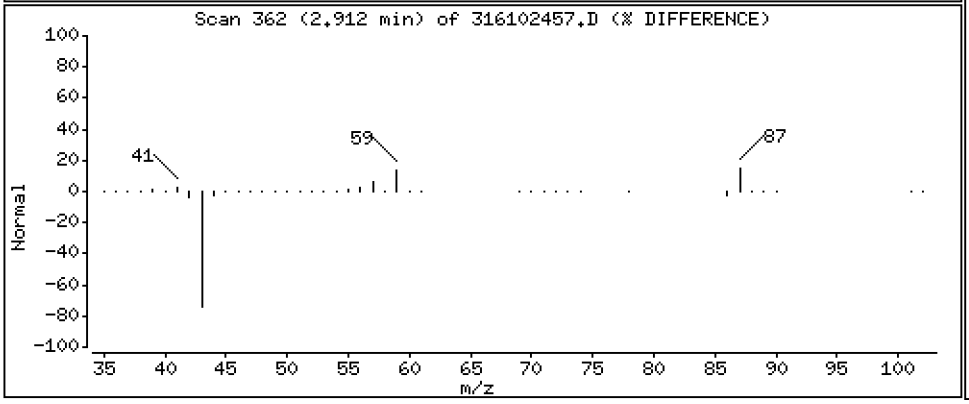
Column phase: DB-VRX Column diameter: 0.25

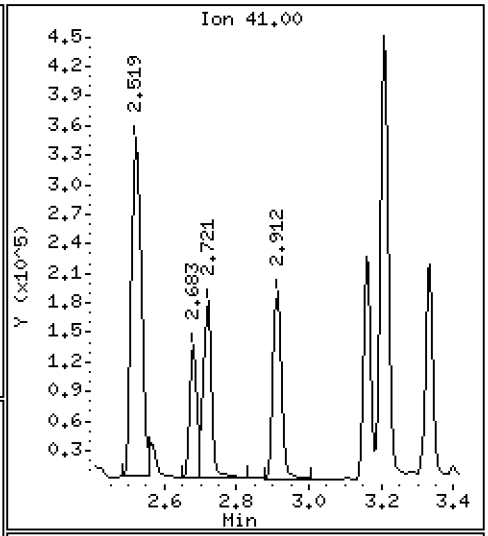
30 n-Propanol Concentration: 499.266 ug/L

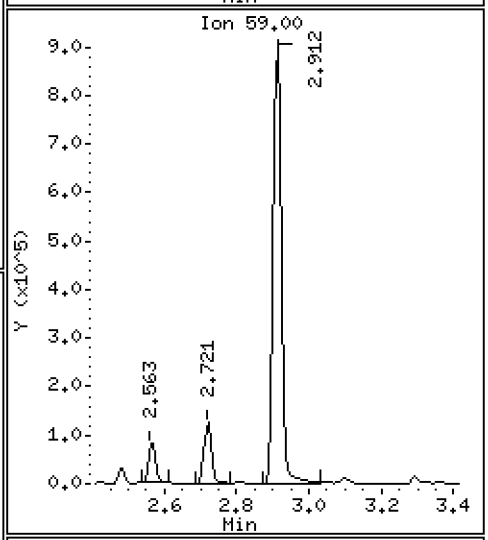


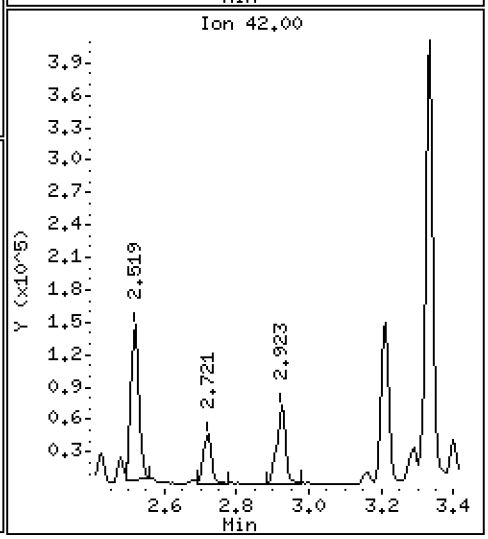












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 39

Date : 25-OCT-2016 00:52

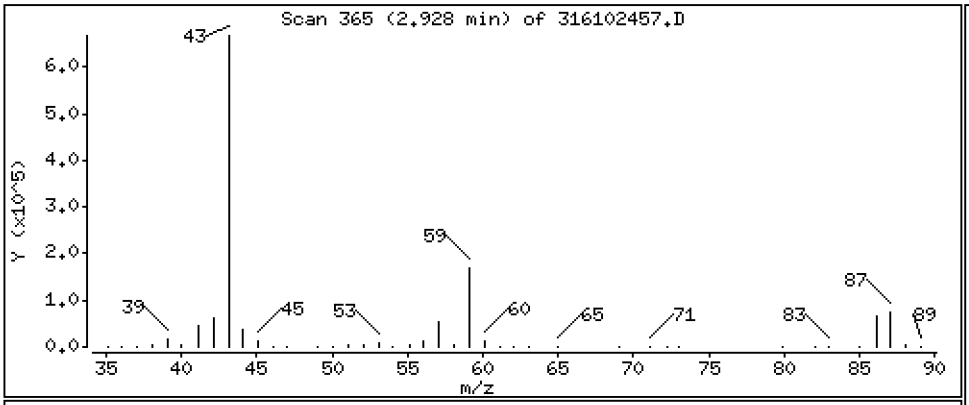
Client ID: Instrument: ms03.i

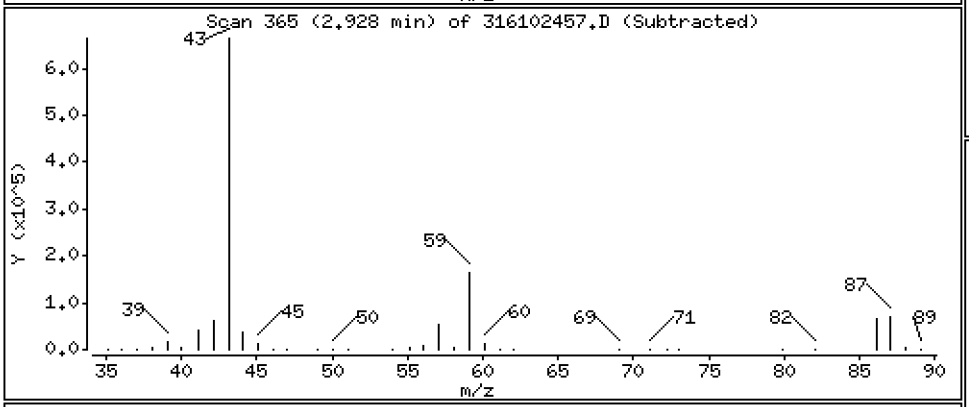
Sample Info: 1237;;1;1;4;;;

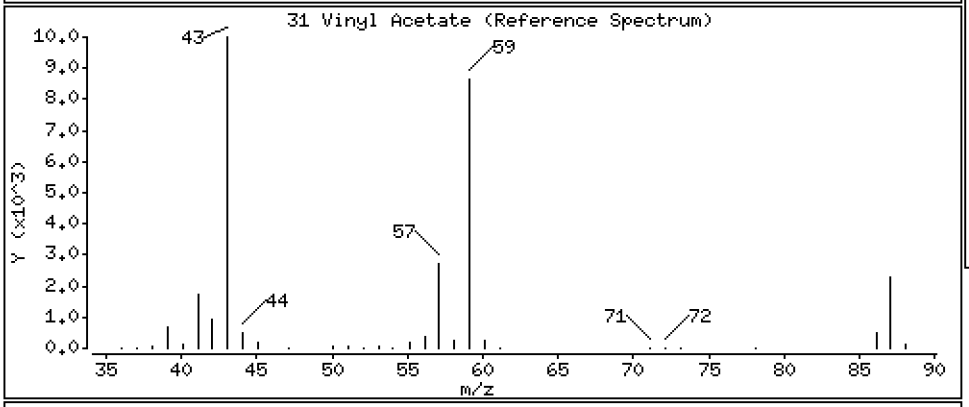
Purge Volume: 5.0 Operator: CJG

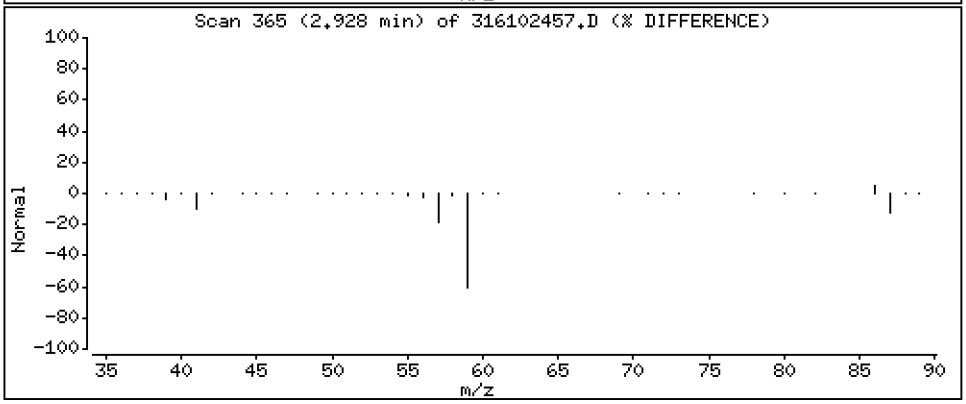
Column phase: DB-VRX Column diameter: 0.25

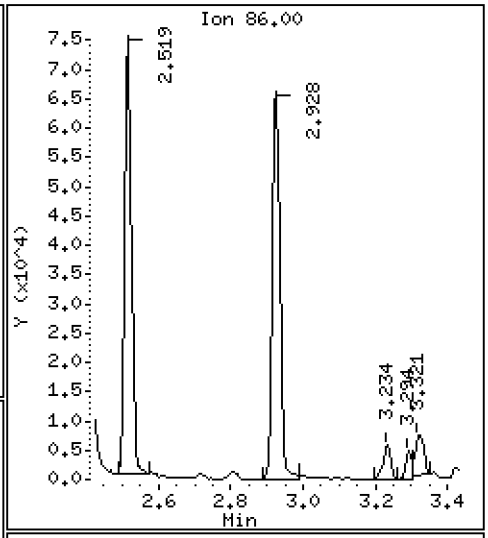
31 Vinyl Acetate Concentration: 49.6409 ug/L

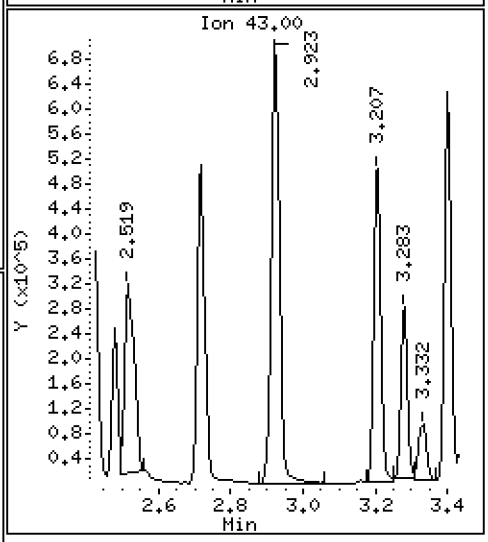












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 40

Date : 25-OCT-2016 00:52

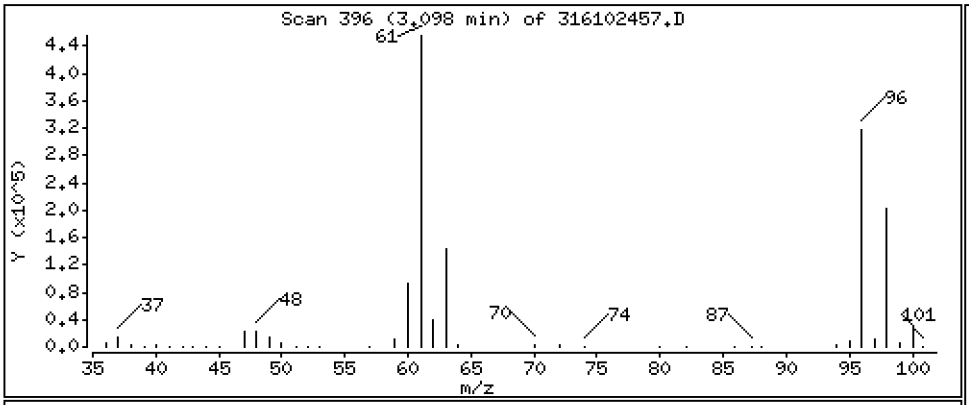
Client ID: Instrument: ms03.i

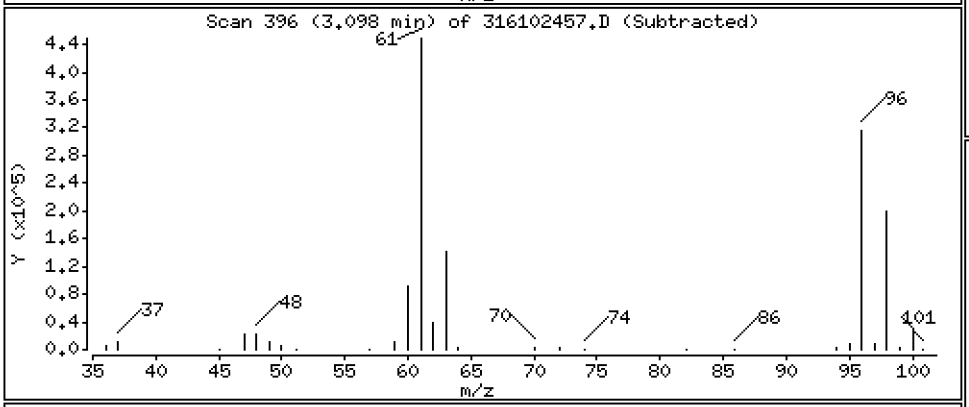
Sample Info: 1237;;1;1;4;;;

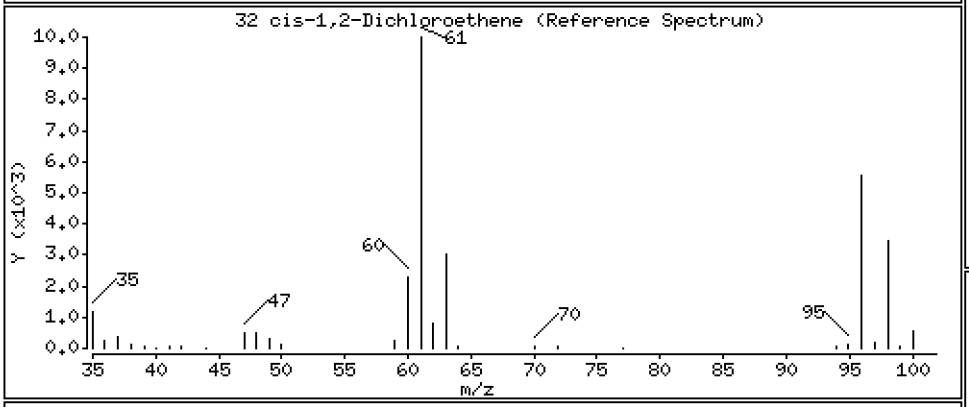
Purge Volume: 5.0 Operator: CJG

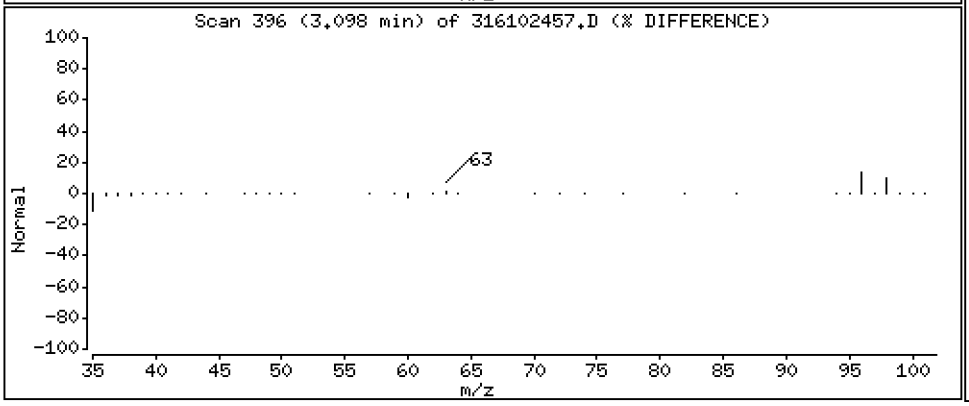
Column phase: DB-VRX Column diameter: 0.25

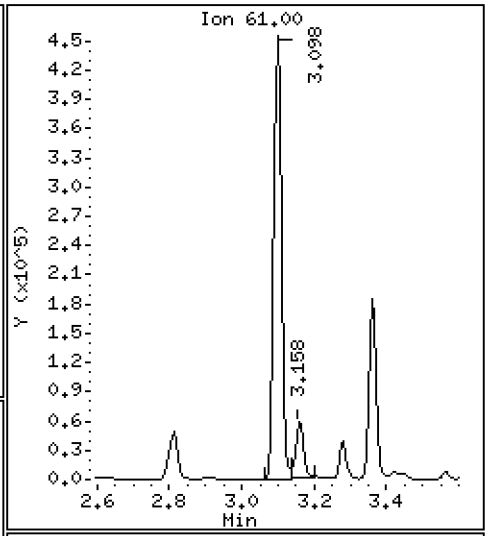
32 cis-1,2-Dichloroethene Concentration: 49.9502 ug/L

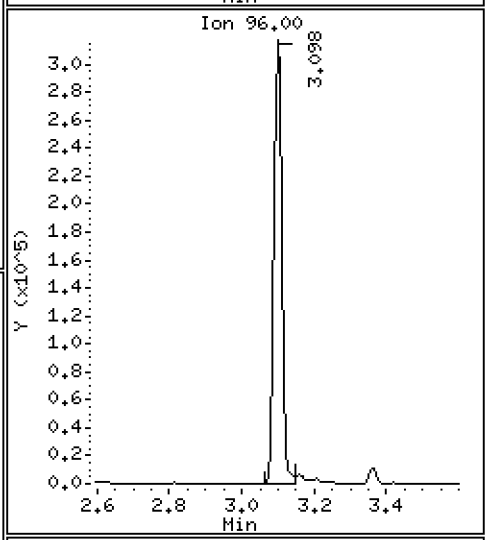


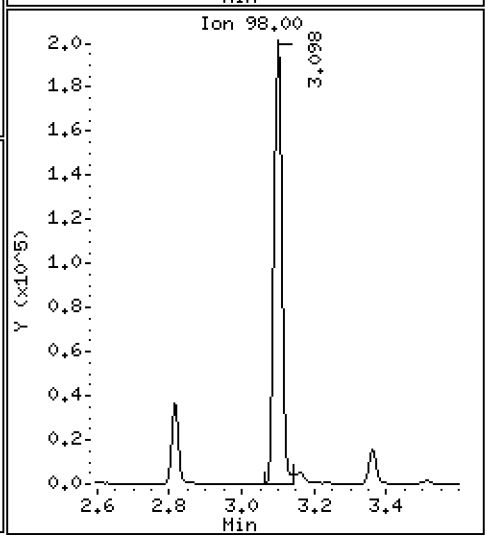












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 41

Date : 25-OCT-2016 00:52

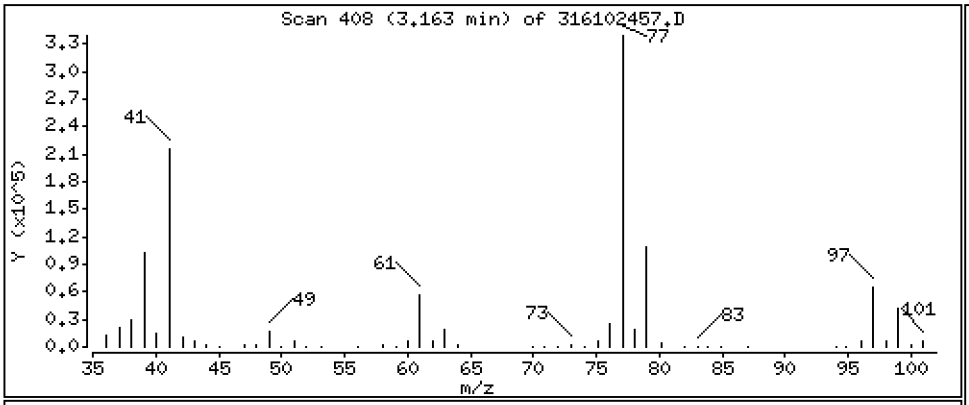
Client ID: Instrument: ms03.i

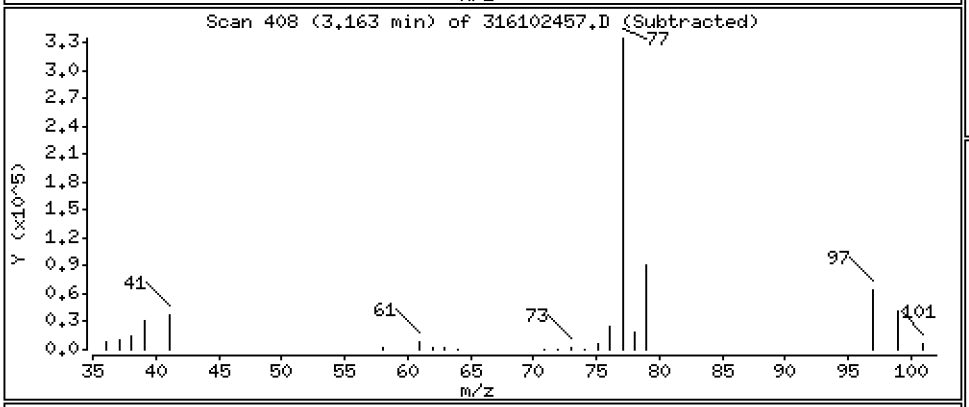
Sample Info: 1237;;1;1;4;;;

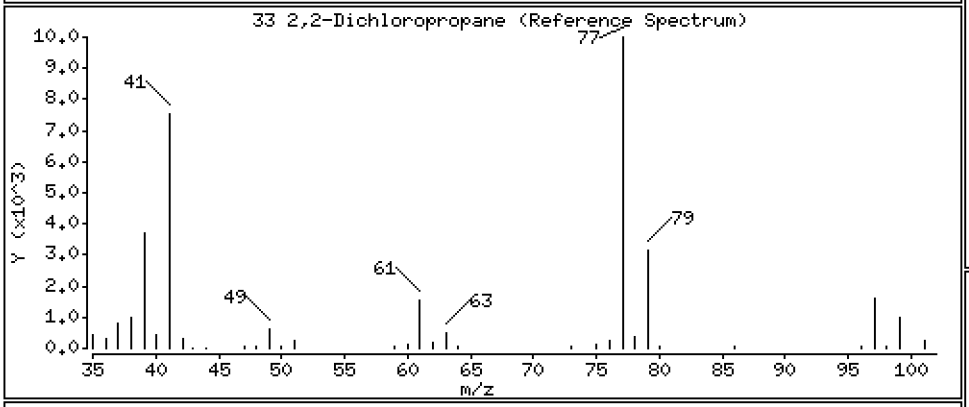
Purge Volume: 5.0 Operator: CJG

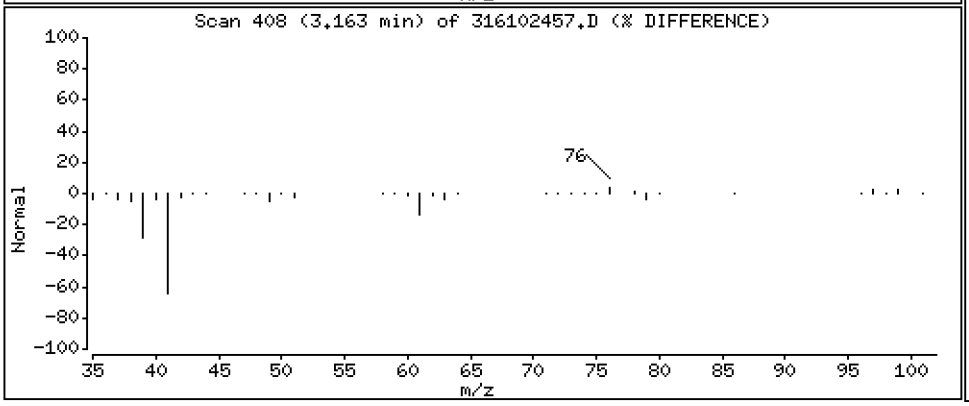
Column phase: DB-VRX Column diameter: 0.25

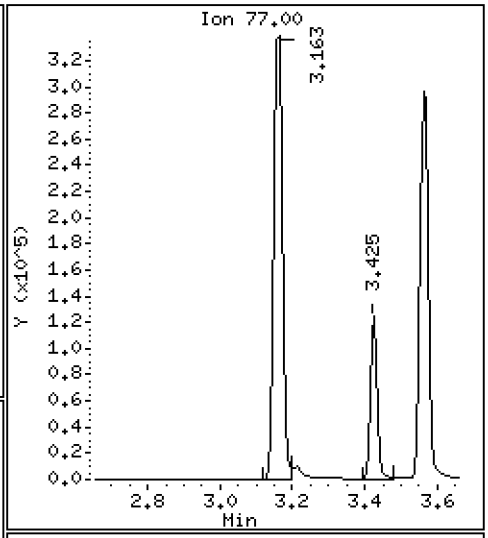
33 2,2-Dichloropropane Concentration: 49.1882 ug/L

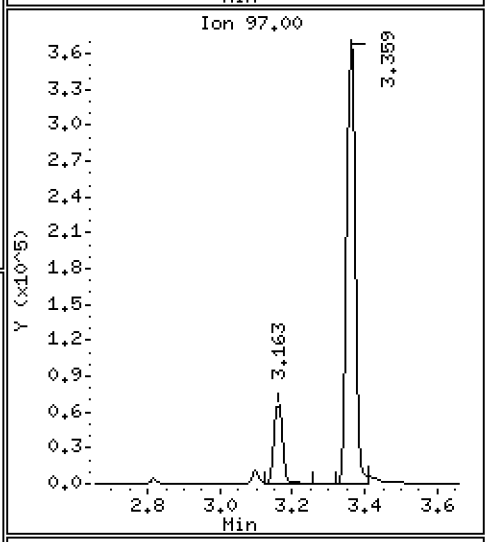


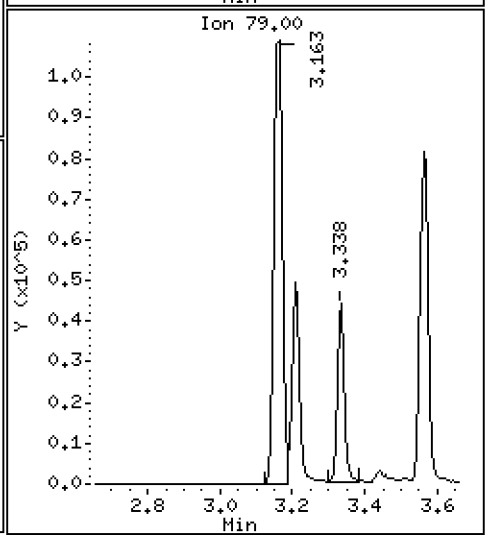












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 42

Date : 25-OCT-2016 00:52

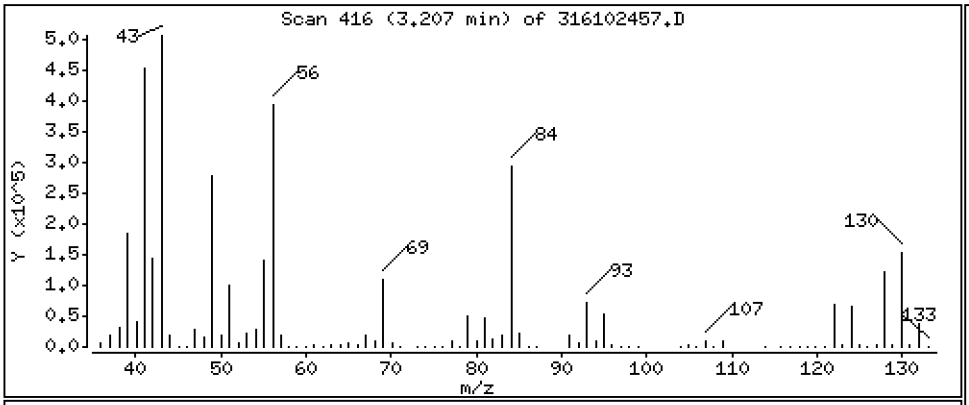
Client ID: Instrument: ms03.i

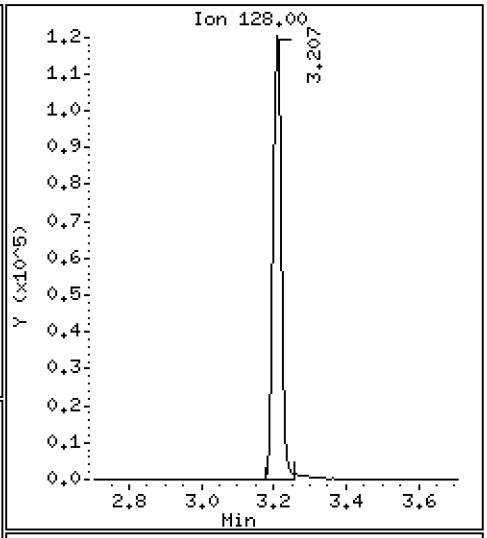
Sample Info: 1237;;1;1;4;;;

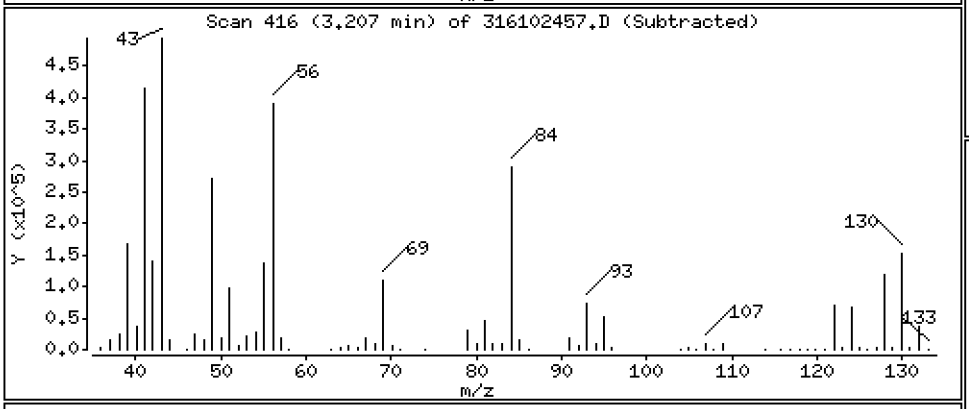
Purge Volume: 5.0 Operator: CJG

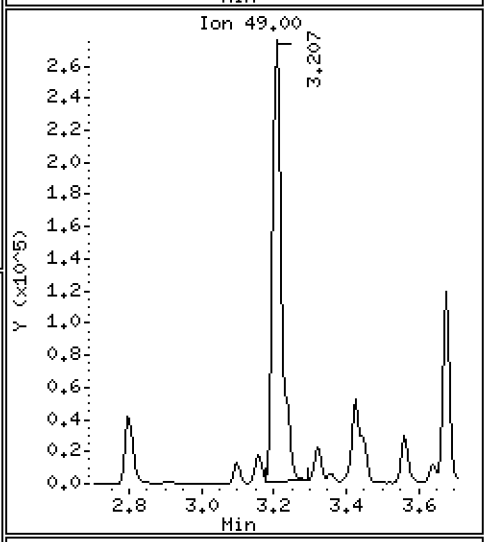
Column phase: DB-VRX Column diameter: 0.25

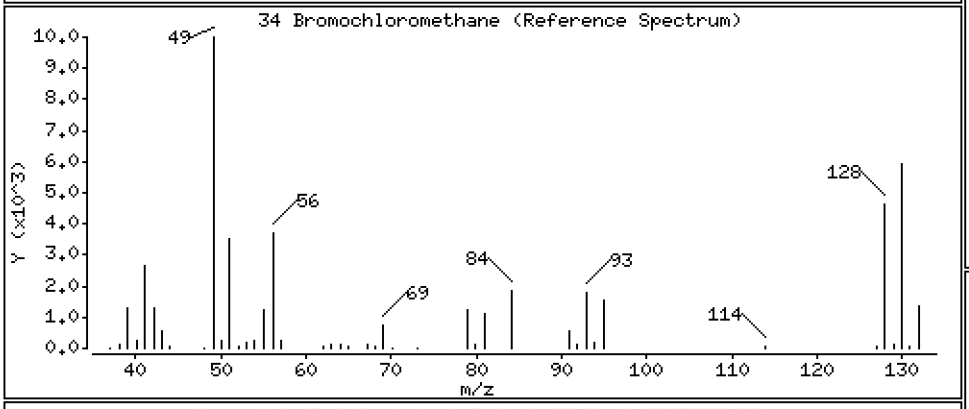
34 Bromochloromethane Concentration: 48.3446 ug/L

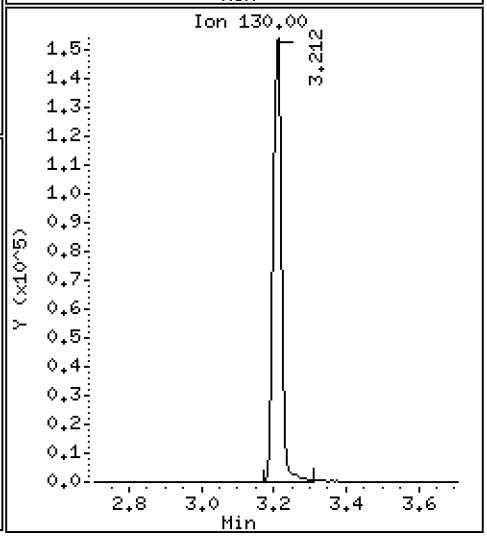


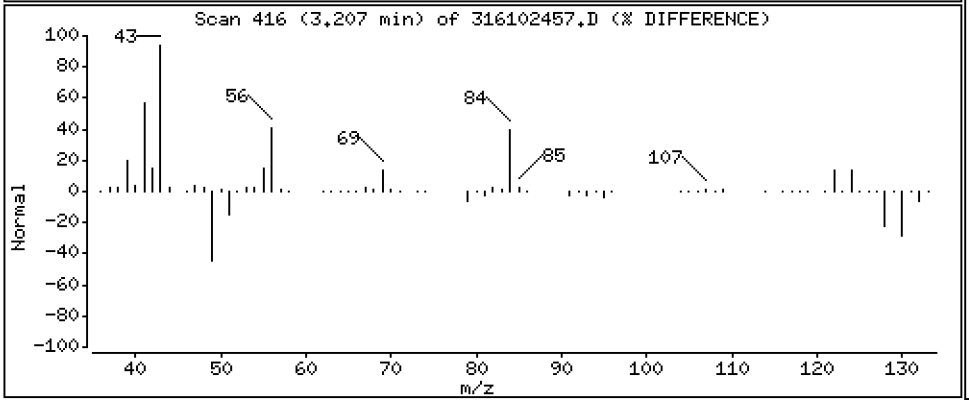












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 43

Date : 25-OCT-2016 00:52

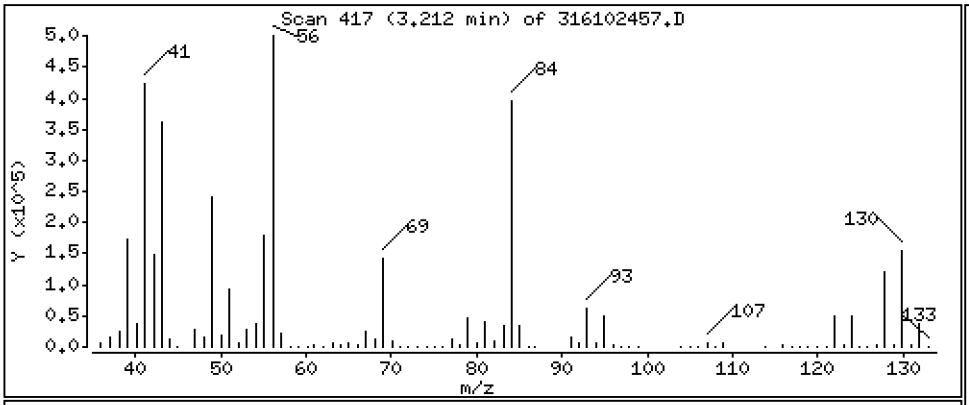
Client ID: Instrument: ms03.i

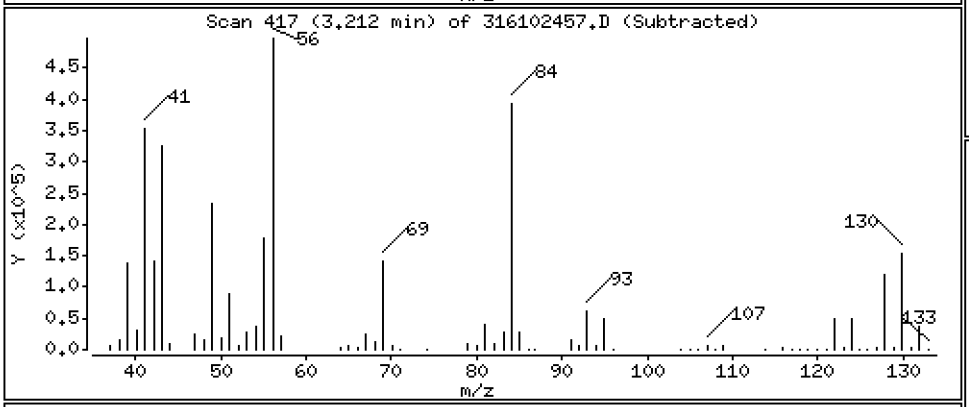
Sample Info: 1237;;1;1;4;;;

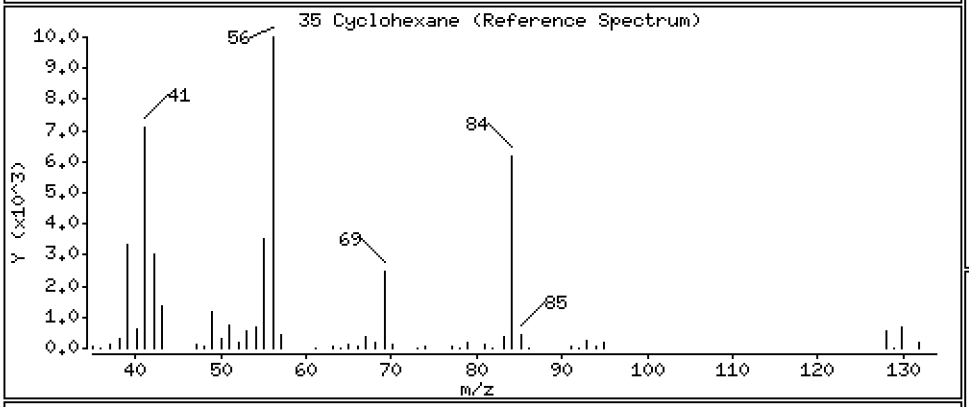
Purge Volume: 5.0 Operator: CJG

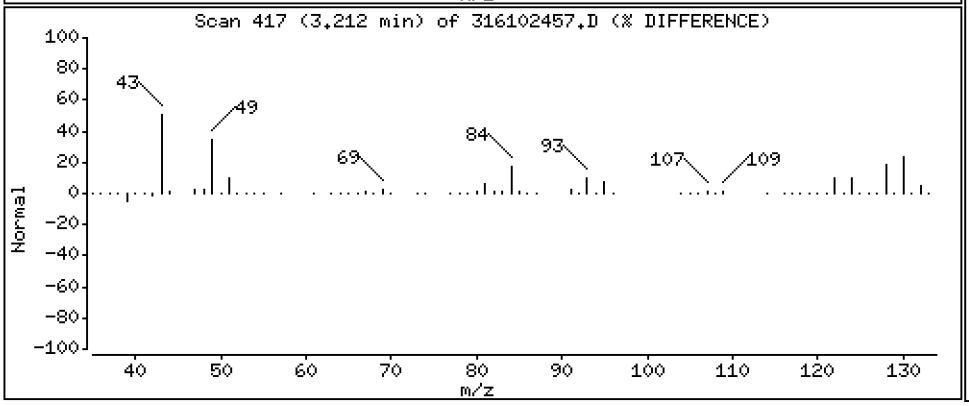
Column phase: DB-VRX Column diameter: 0.25

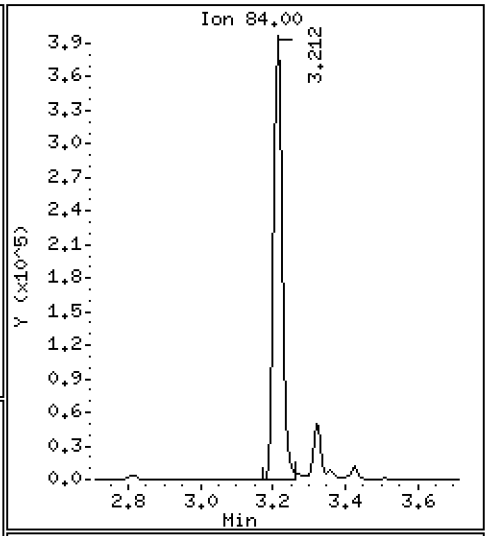
35 Cyclohexane Concentration: 49.0909 ug/L

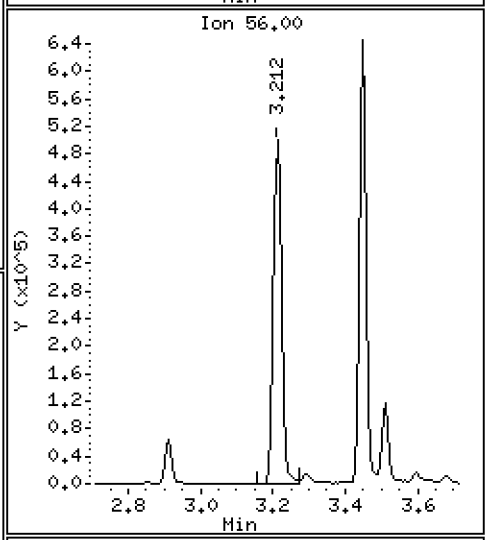


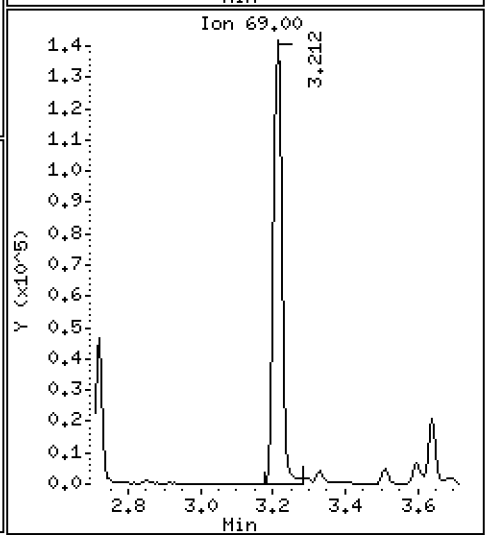












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 44

Date : 25-OCT-2016 00:52

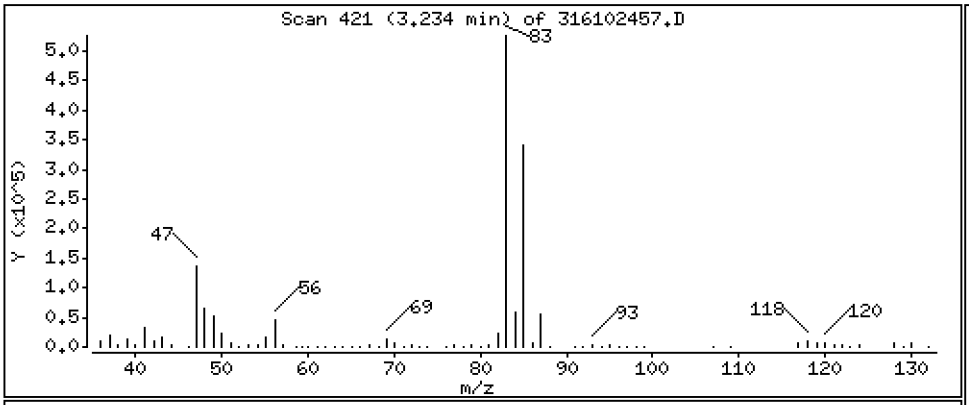
Client ID: Instrument: ms03.i

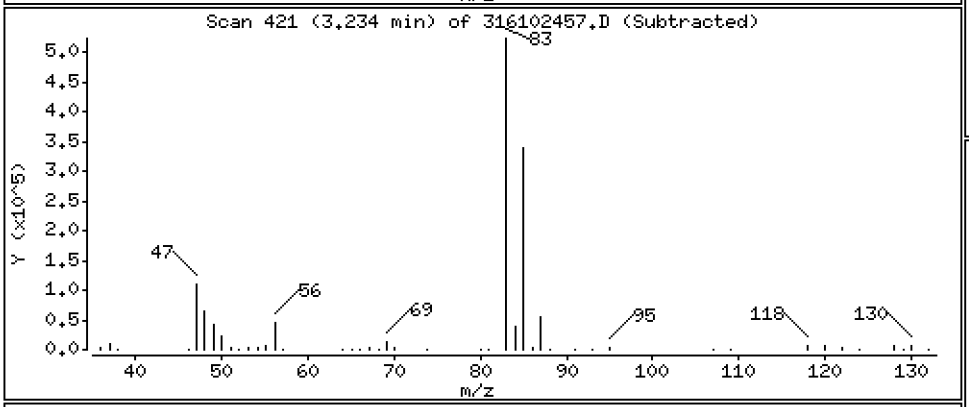
Sample Info: 1237;;1;1;4;;;

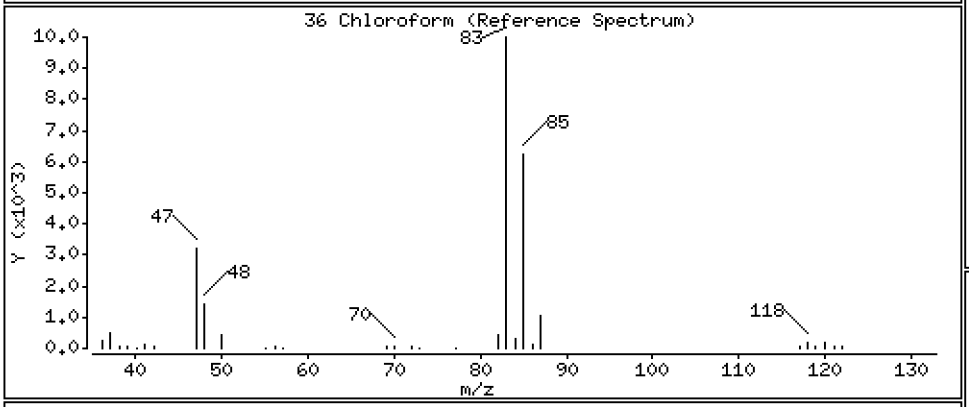
Purge Volume: 5.0 Operator: CJG

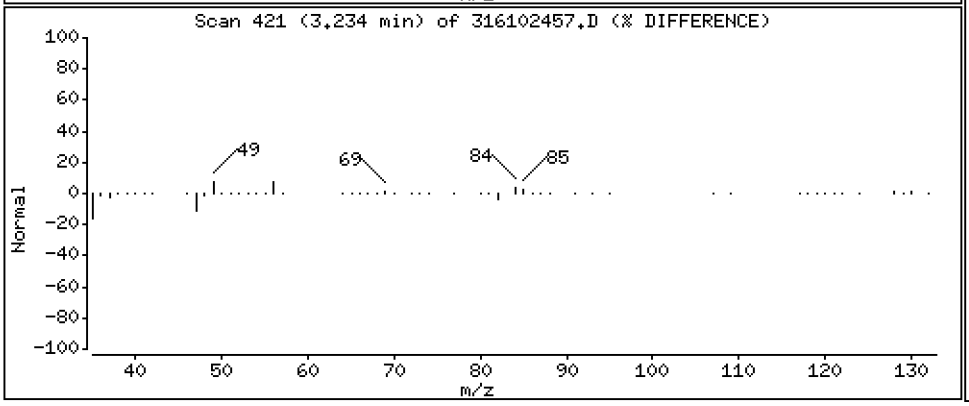
Column phase: DB-VRX Column diameter: 0.25

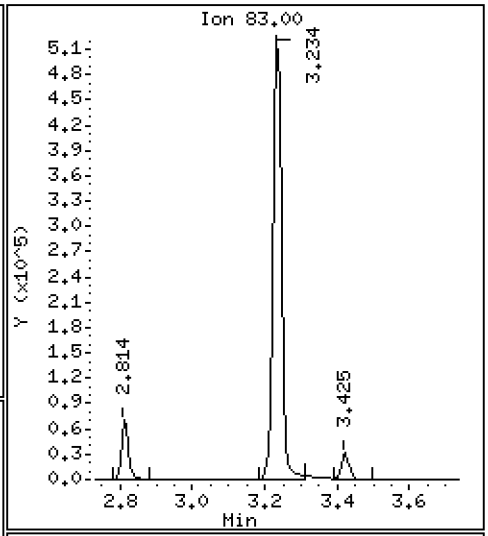
36 Chloroform Concentration: 50.0466 ug/L

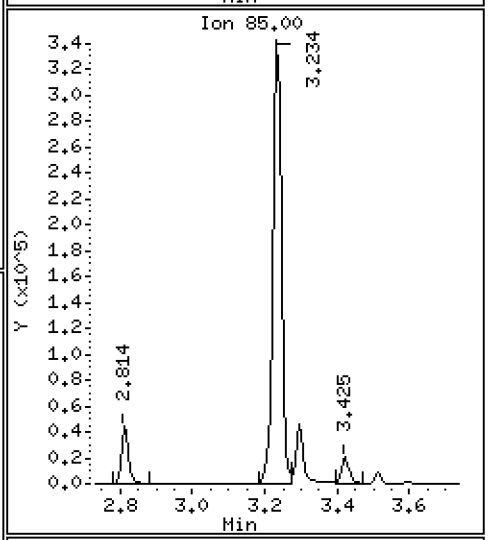


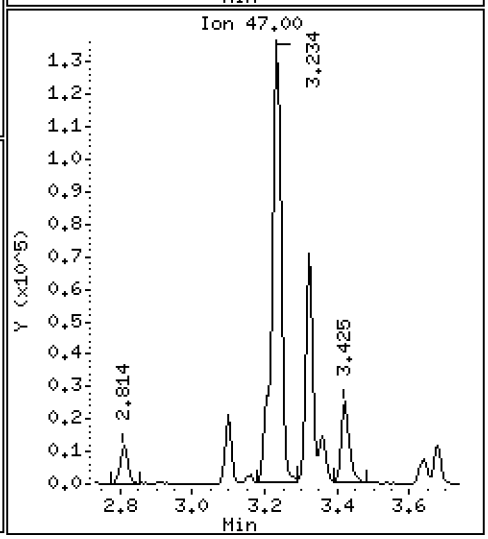












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 45

Date : 25-OCT-2016 00:52

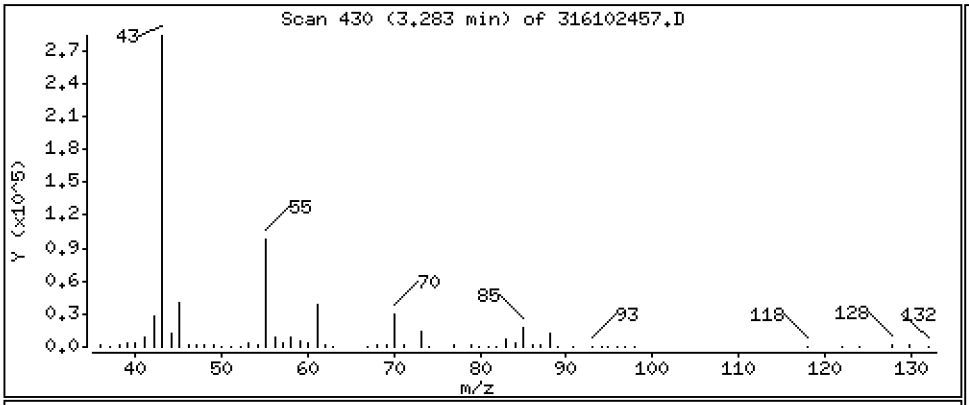
Client ID: Instrument: ms03.i

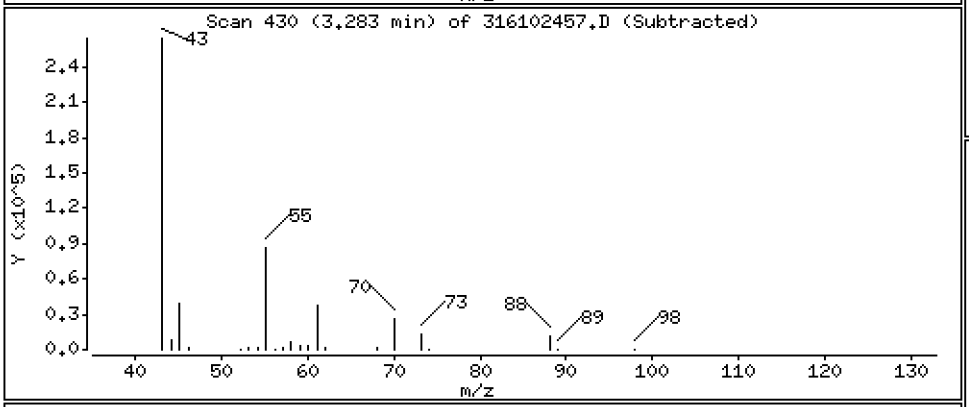
Sample Info: 1237;;1;1;4;;;

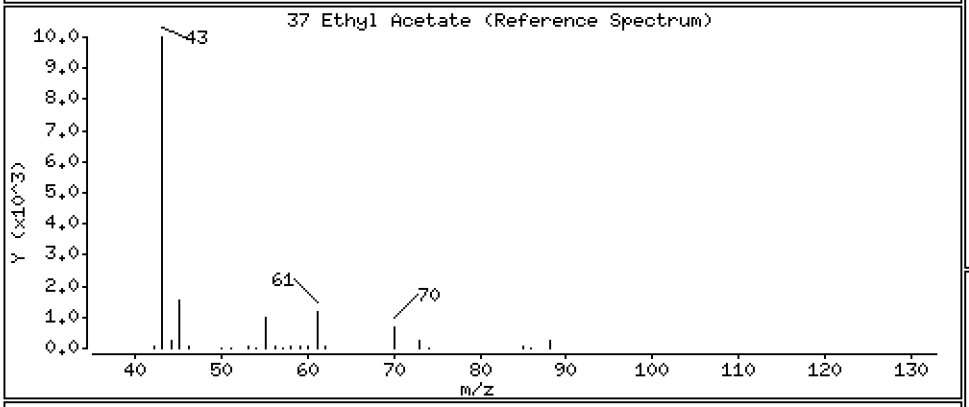
Purge Volume: 5.0 Operator: CJG

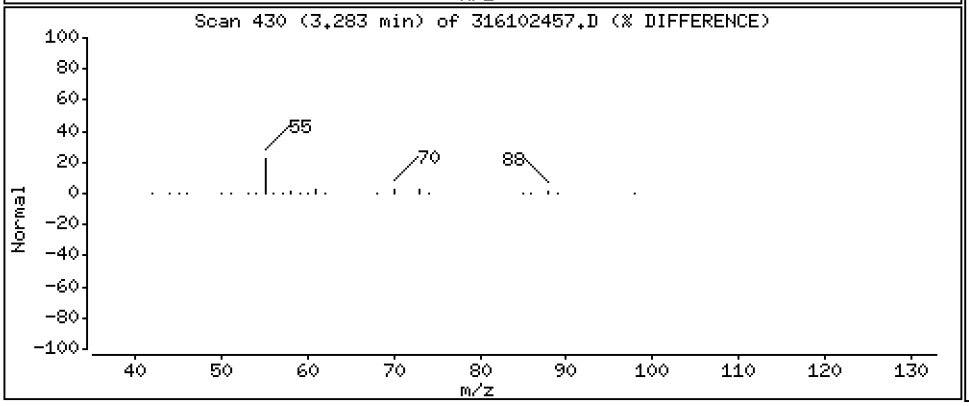
Column phase: DB-VRX Column diameter: 0.25

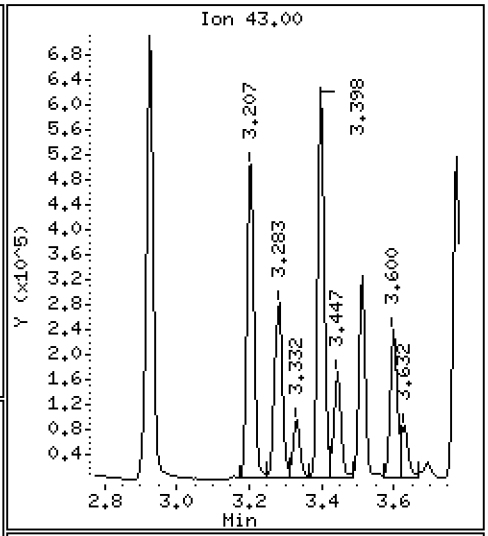
37 Ethyl Acetate Concentration: 51.2737 ug/L

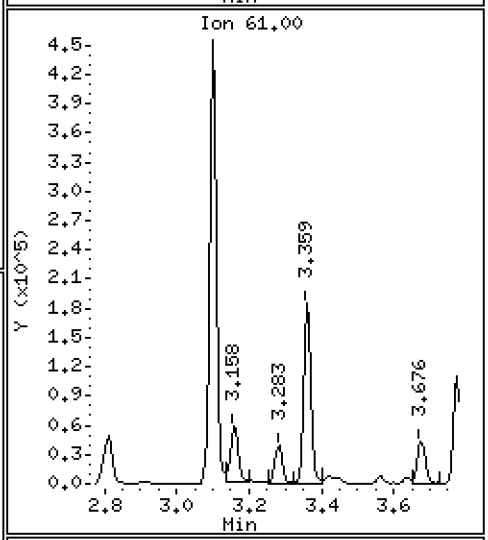


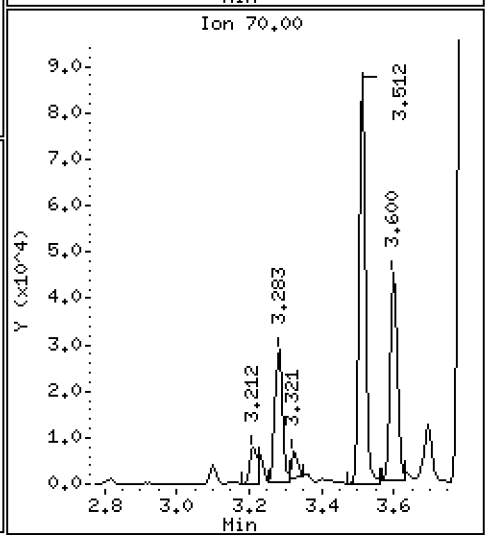












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 46

Date : 25-OCT-2016 00:52

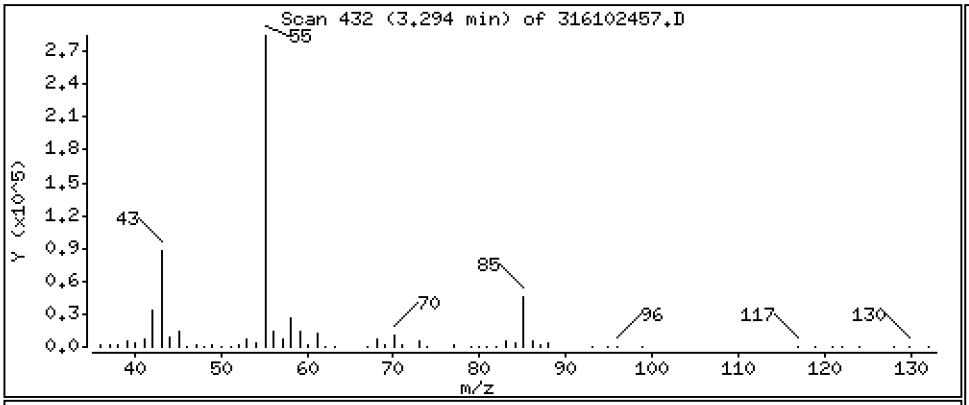
Client ID: Instrument: ms03.i

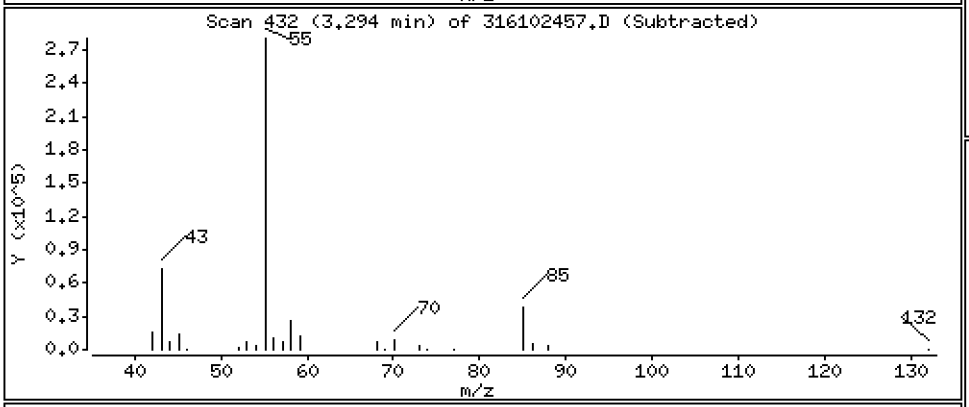
Sample Info: 1237;;1;1;4;;;

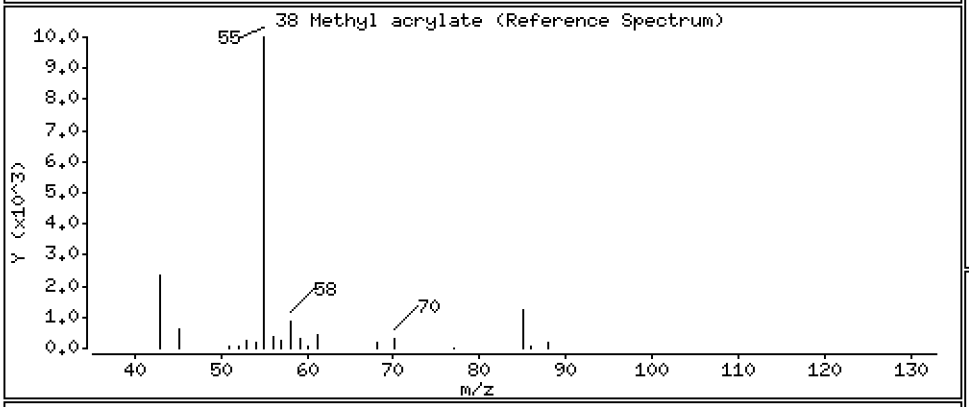
Purge Volume: 5.0 Operator: CJG

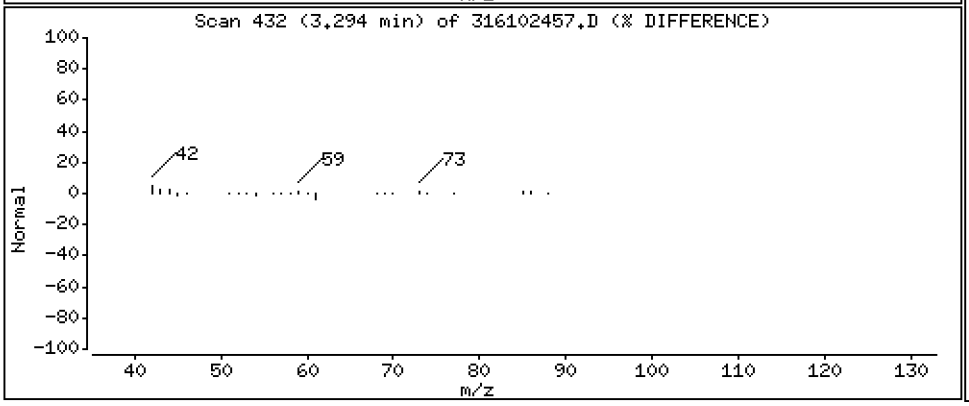
Column phase: DB-VRX Column diameter: 0.25

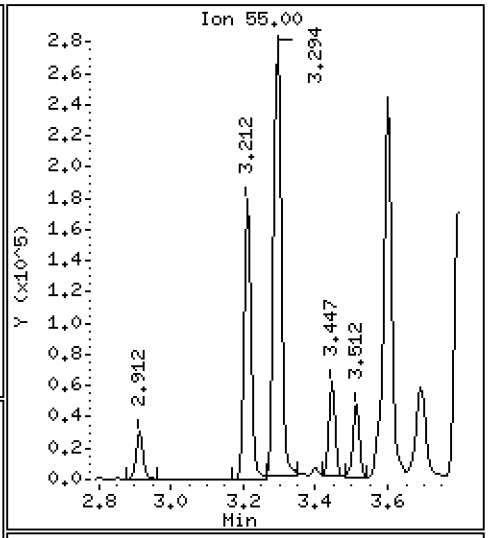
38 Methyl acrylate Concentration: 50.2316 ug/L

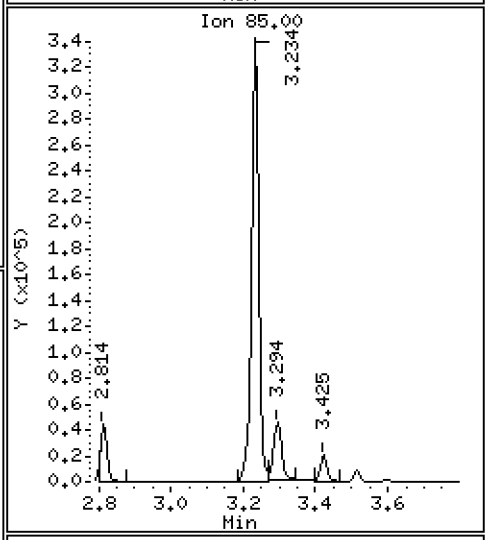


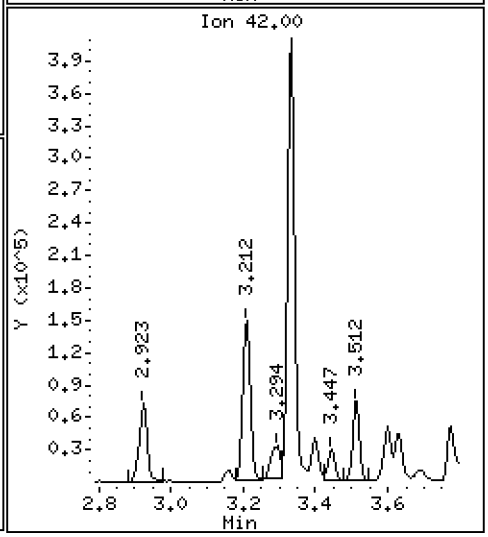












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 47

Date : 25-OCT-2016 00:52

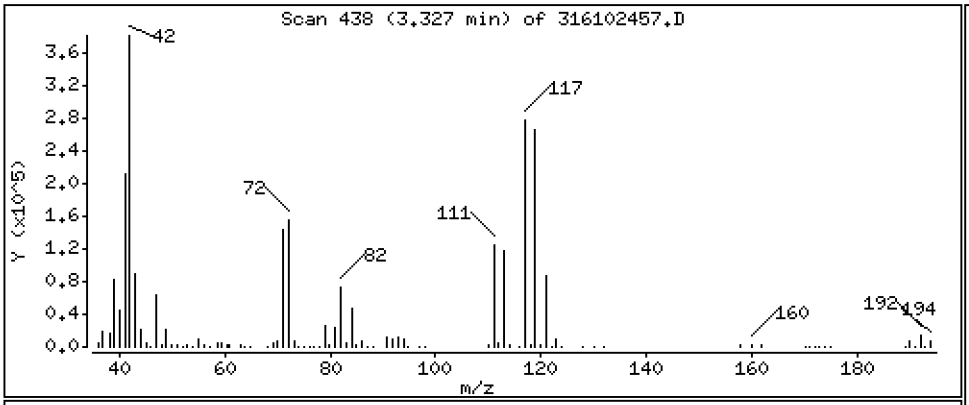
Client ID: Instrument: ms03.i

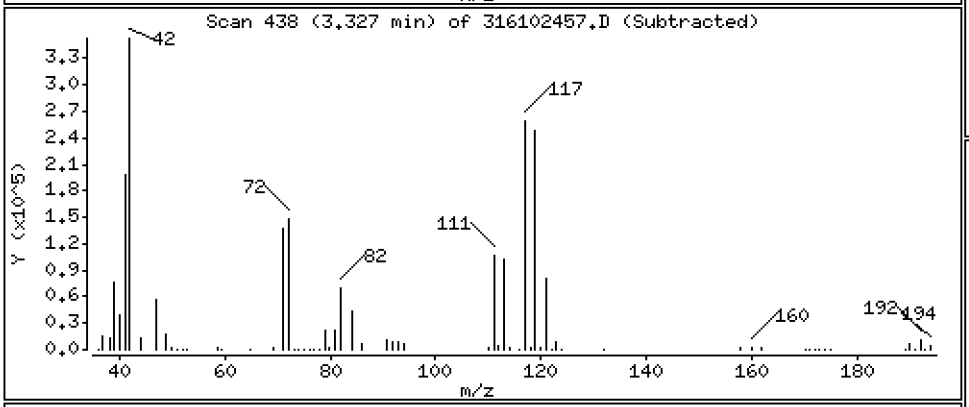
Sample Info: 1237;;1;1;4;;;

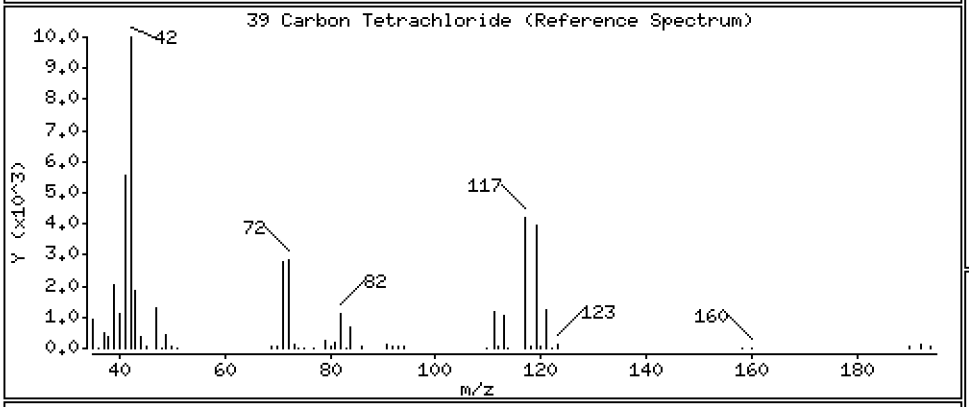
Purge Volume: 5.0 Operator: CJG

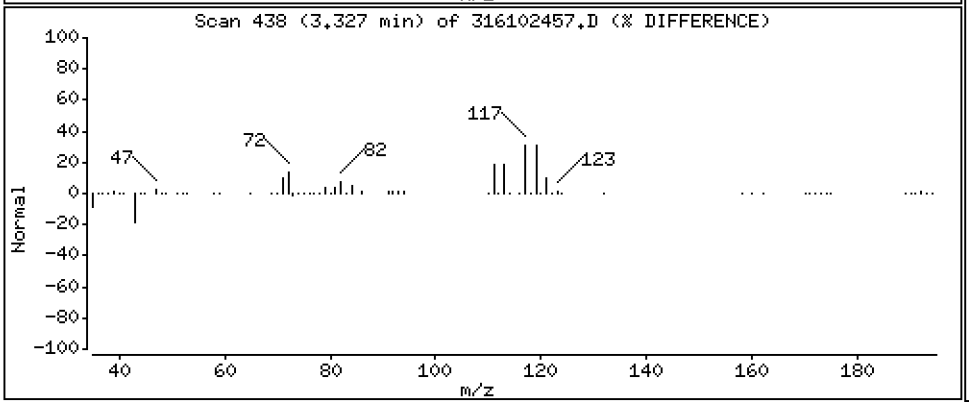
Column phase: DB-VRX Column diameter: 0.25

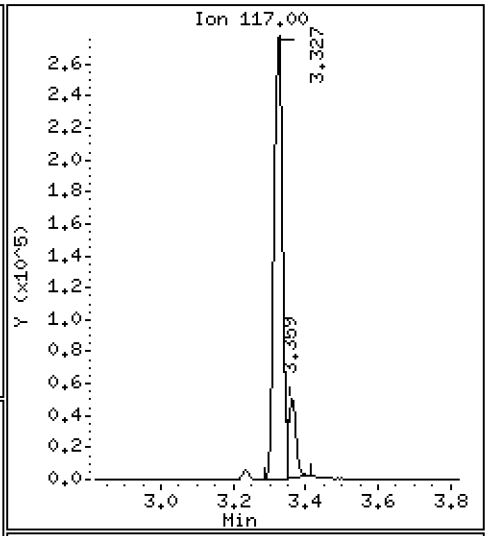
39 Carbon Tetrachloride Concentration: 49.1660 ug/L

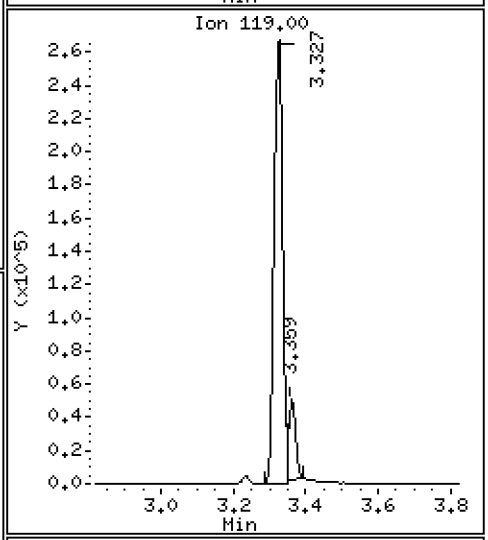


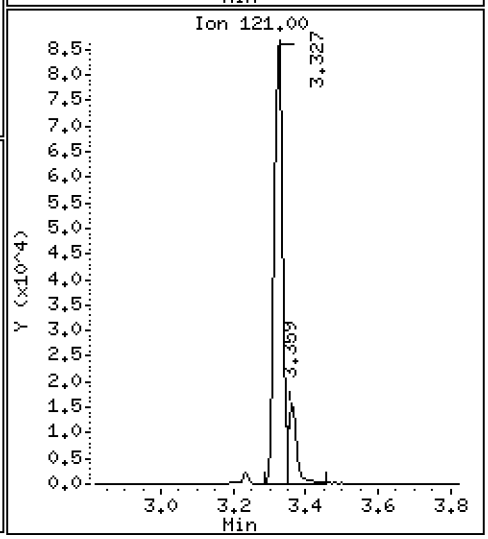












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 48

Date : 25-OCT-2016 00:52

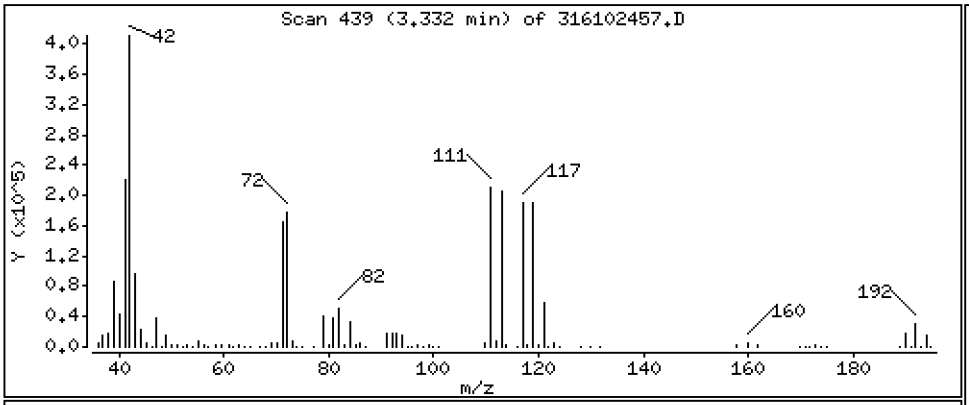
Client ID: Instrument: ms03.i

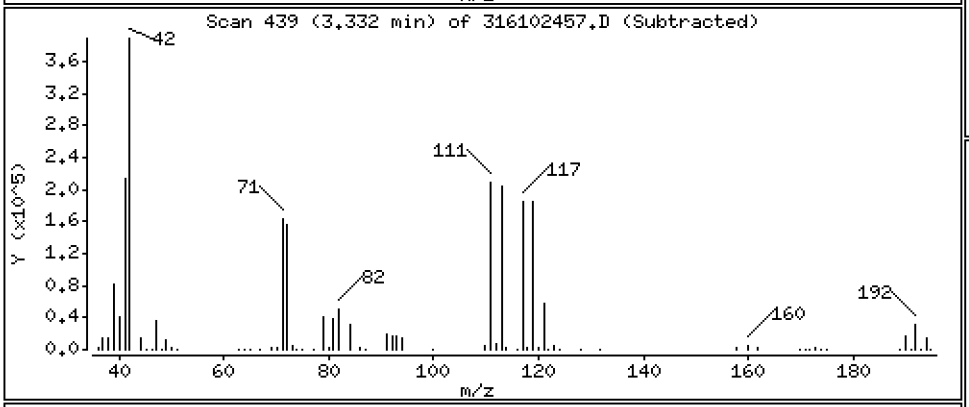
Sample Info: 1237;;1;1;4;;;

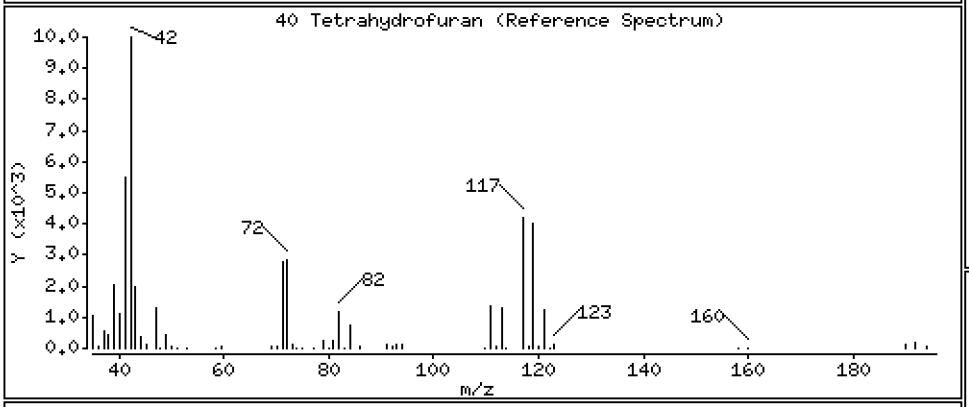
Purge Volume: 5.0 Operator: CJG

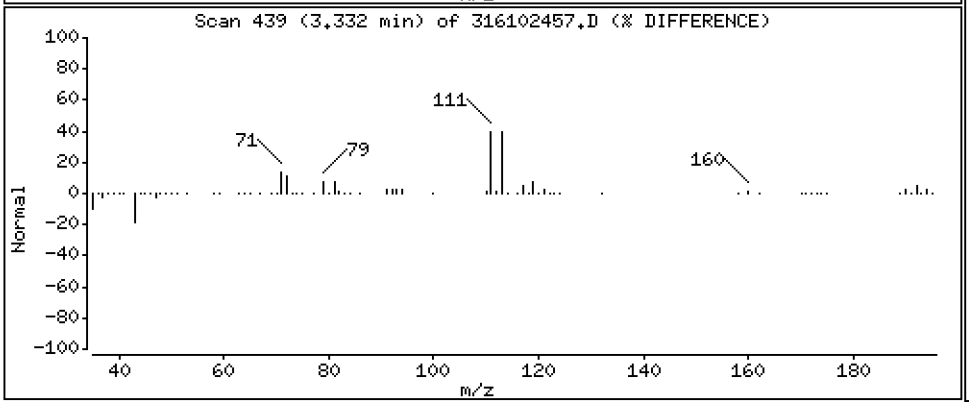
Column phase: DB-VRX Column diameter: 0.25

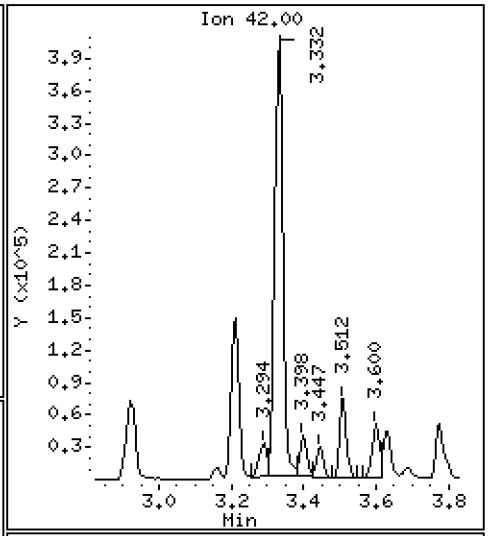
40 Tetrahydrofuran Concentration: 257.770 ug/L

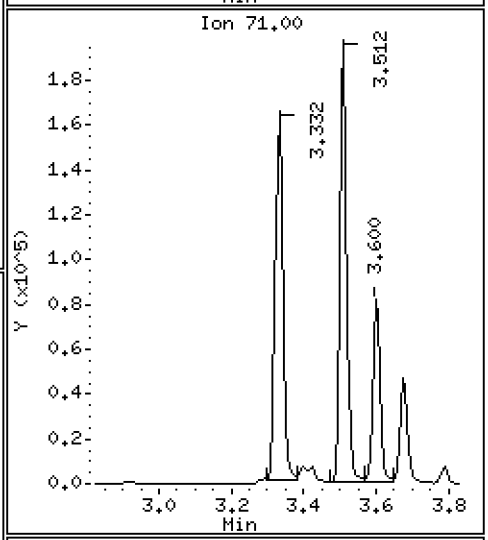


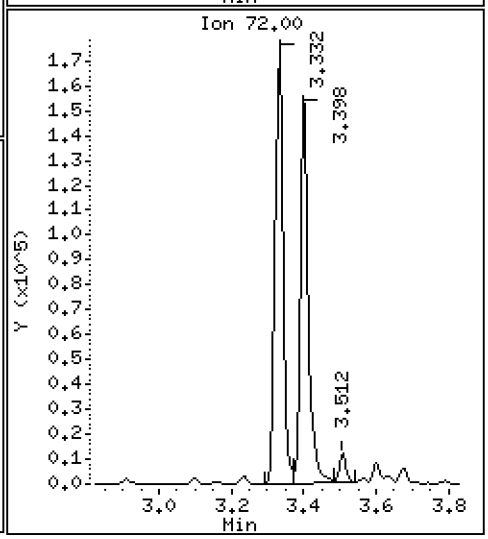












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 49

Date : 25-OCT-2016 00:52

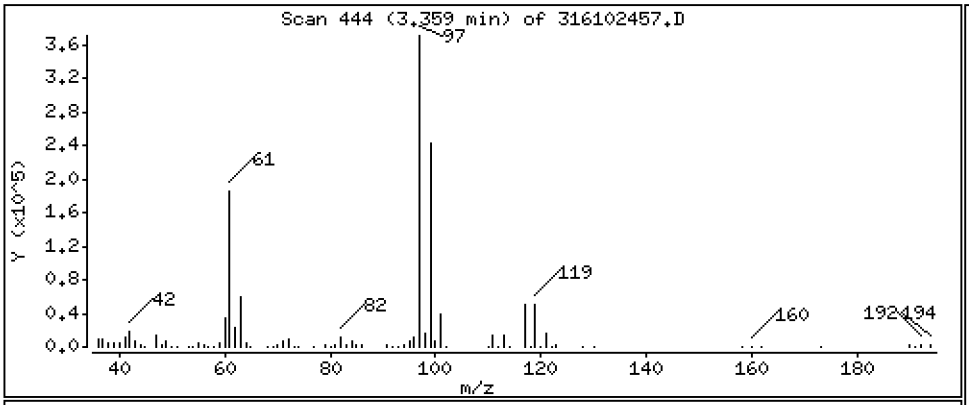
Client ID: Instrument: ms03.i

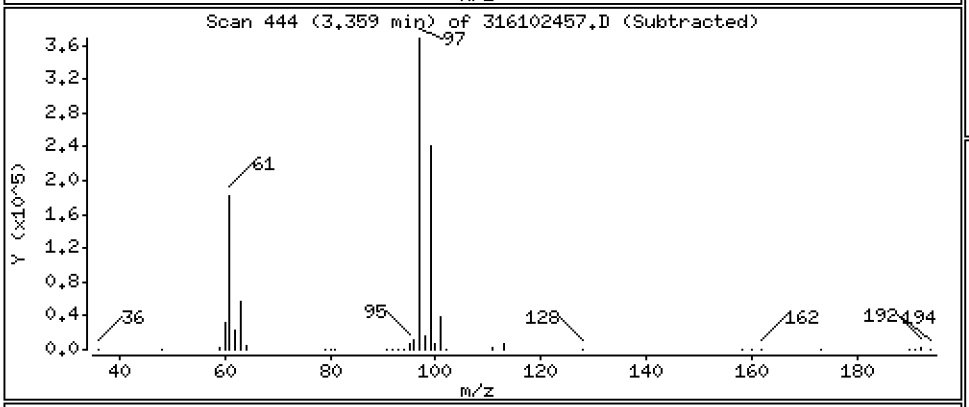
Sample Info: 1237;;1;1;4;;;

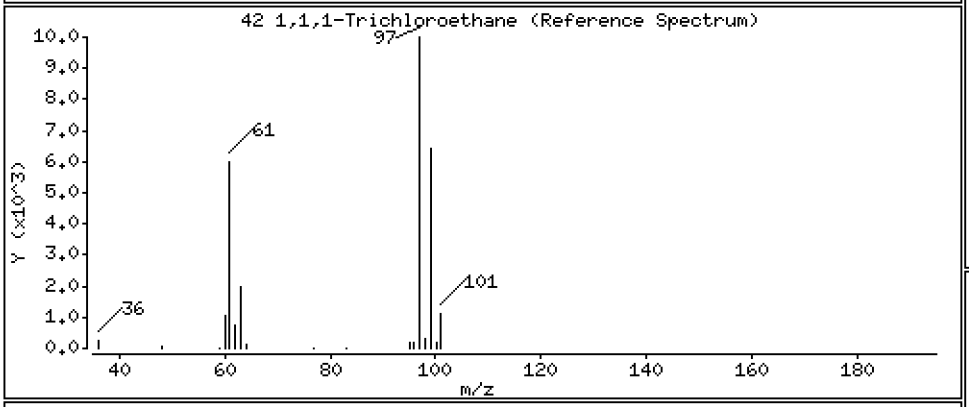
Purge Volume: 5.0 Operator: CJG

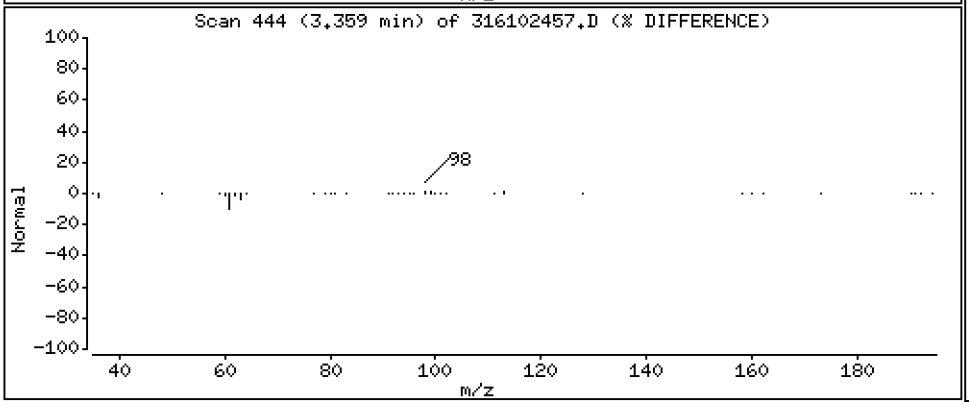
Column phase: DB-VRX Column diameter: 0.25

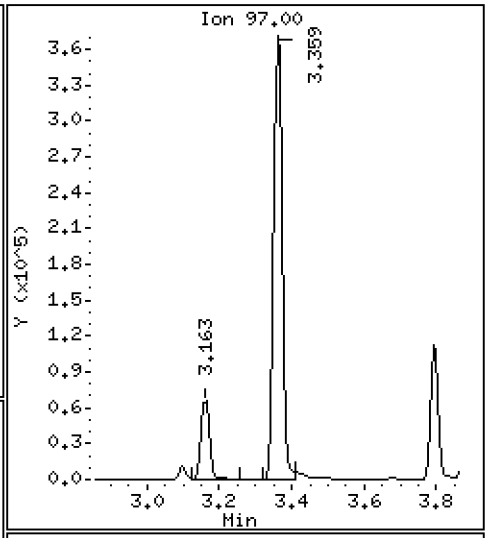
42 1,1,1-Trichloroethane Concentration: 48.5141 ug/L

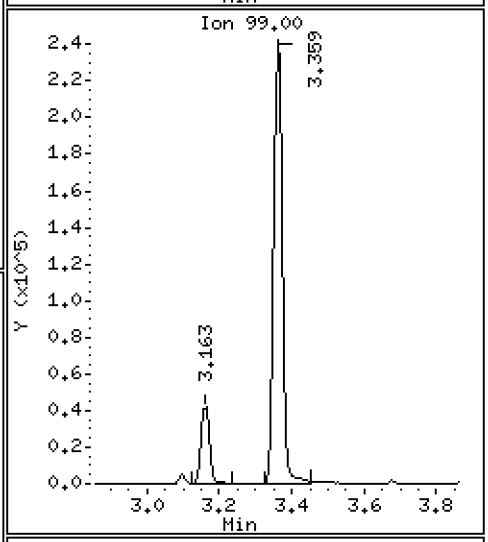


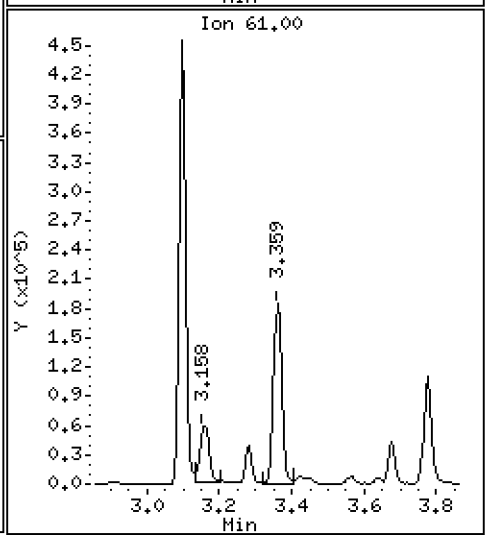












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 50

Date : 25-OCT-2016 00:52

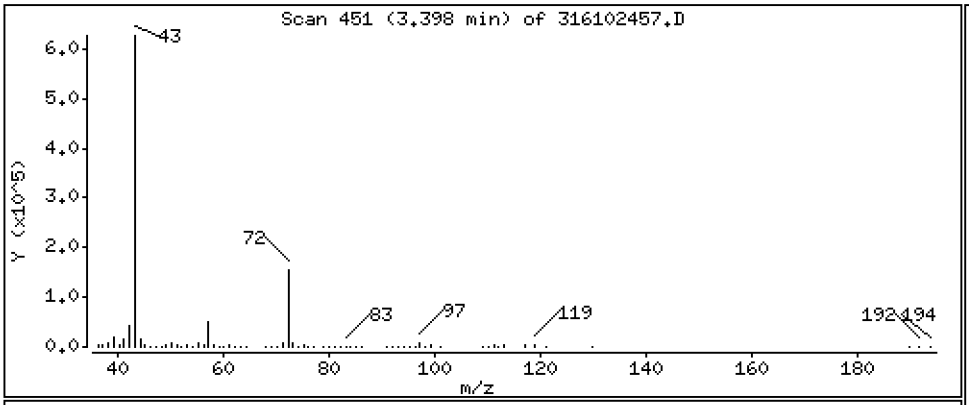
Client ID: Instrument: ms03.i

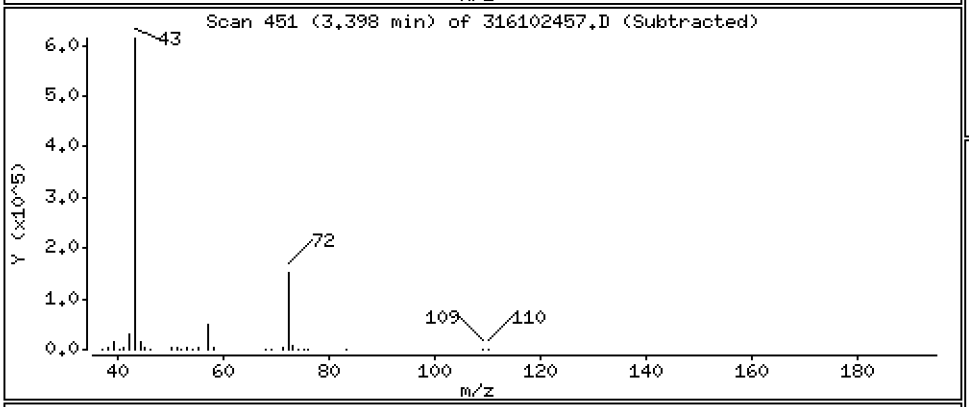
Sample Info: 1237;;1;1;4;;;

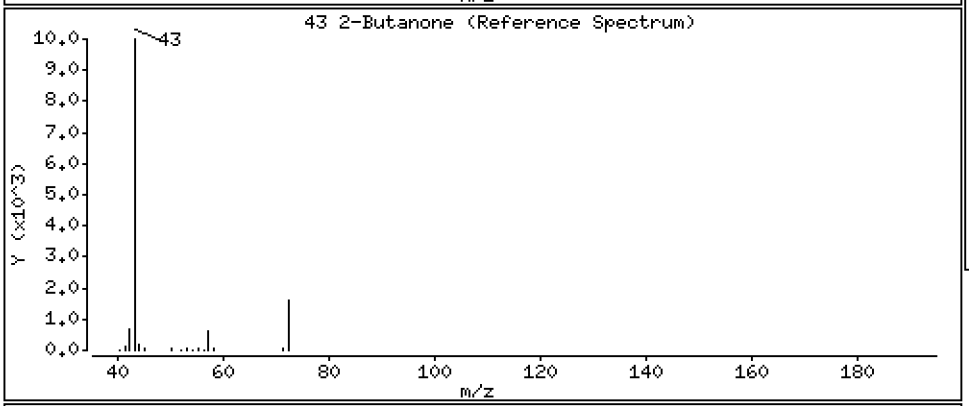
Purge Volume: 5.0 Operator: CJG

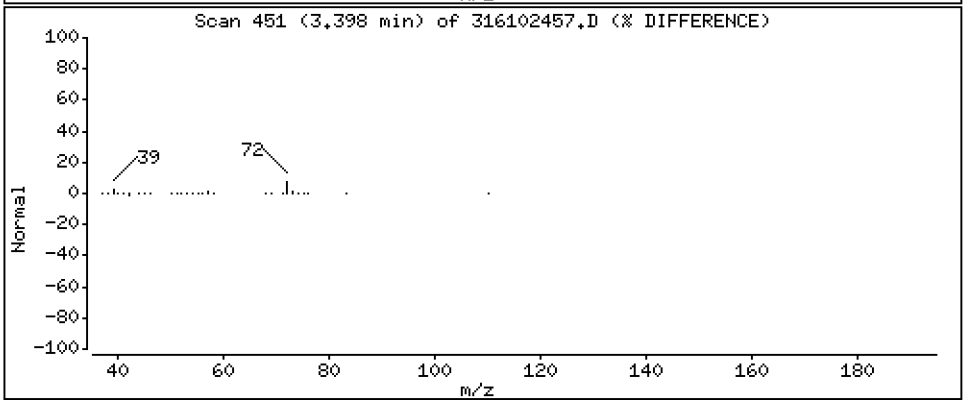
Column phase: DB-VRX Column diameter: 0.25

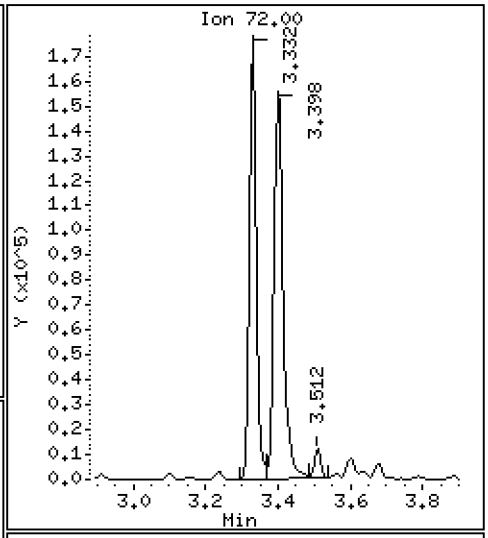
43 2-Butanone Concentration: 259.022 ug/L

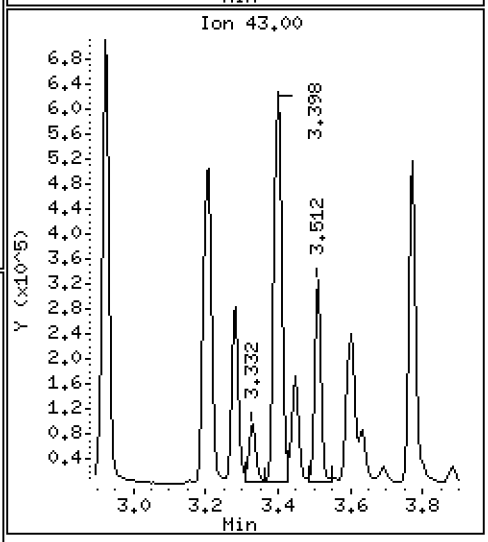












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 51

Date : 25-OCT-2016 00:52

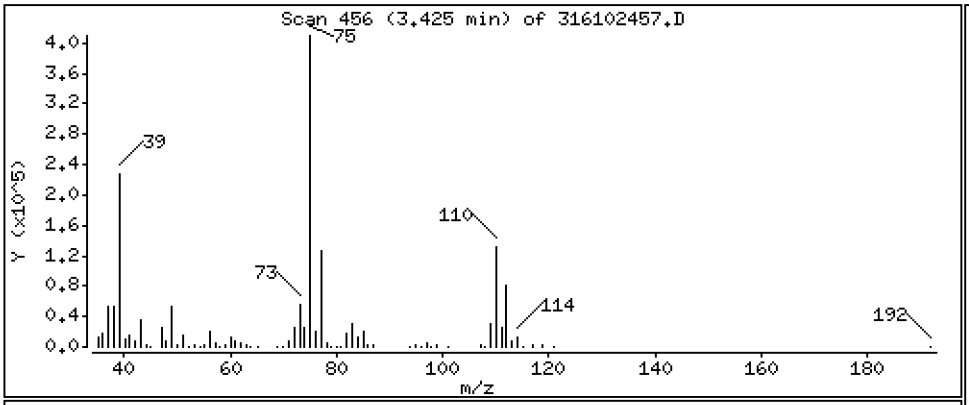
Client ID: Instrument: ms03.i

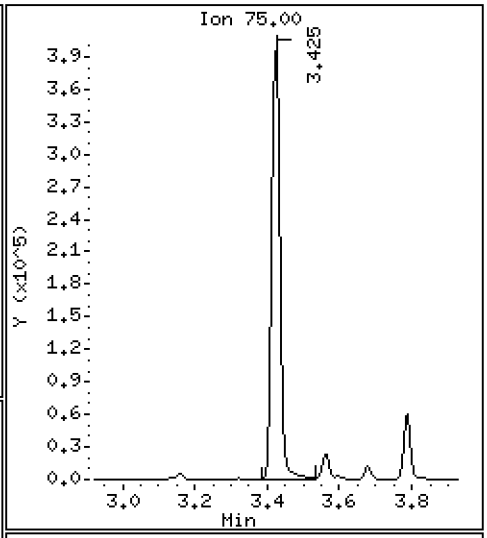
Sample Info: 1237;;1;1;4;;;

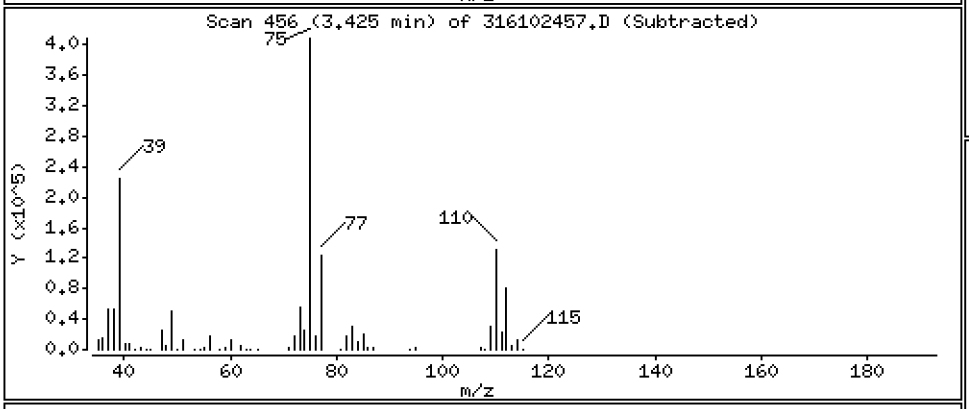
Purge Volume: 5.0 Operator: CJG

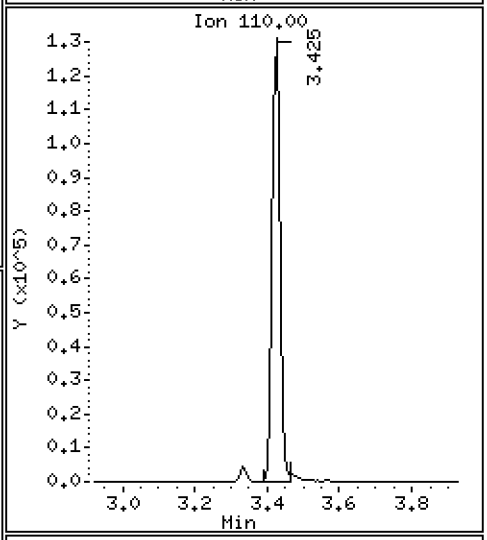
Column phase: DB-VRX Column diameter: 0.25

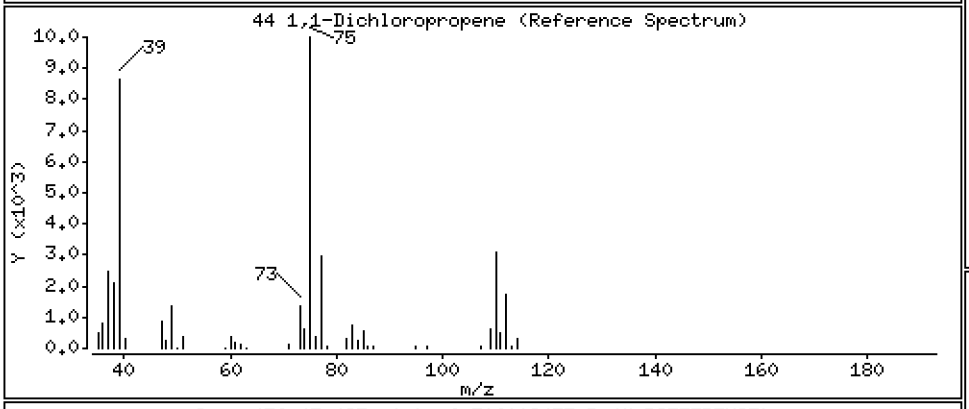
44 1,1-Dichloropropene Concentration: 49.6954 ug/L

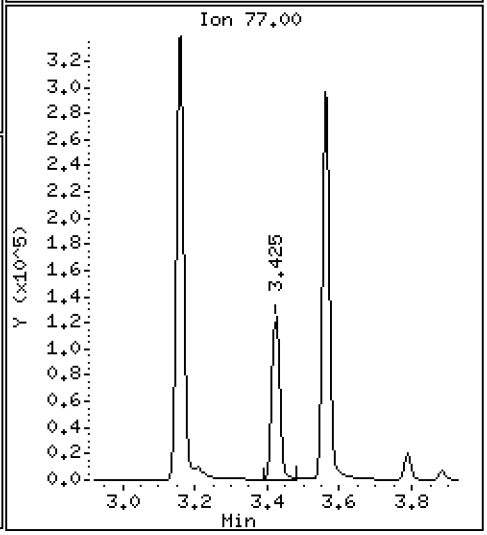


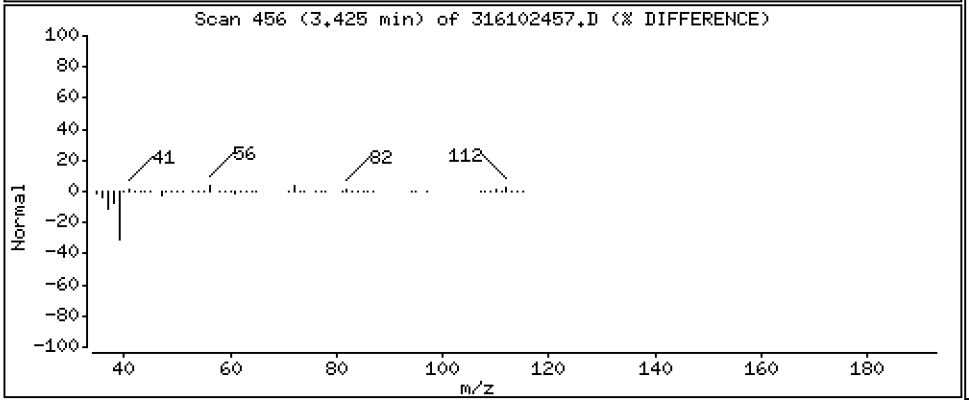












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 52

Date : 25-OCT-2016 00:52

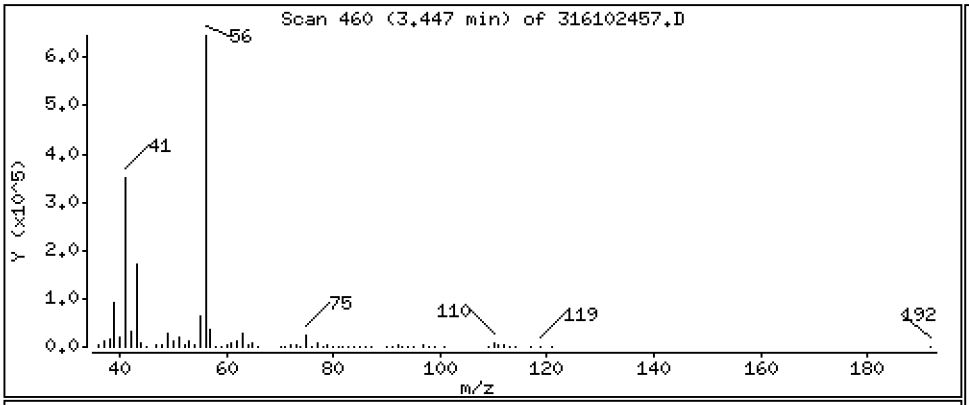
Client ID: Instrument: ms03.i

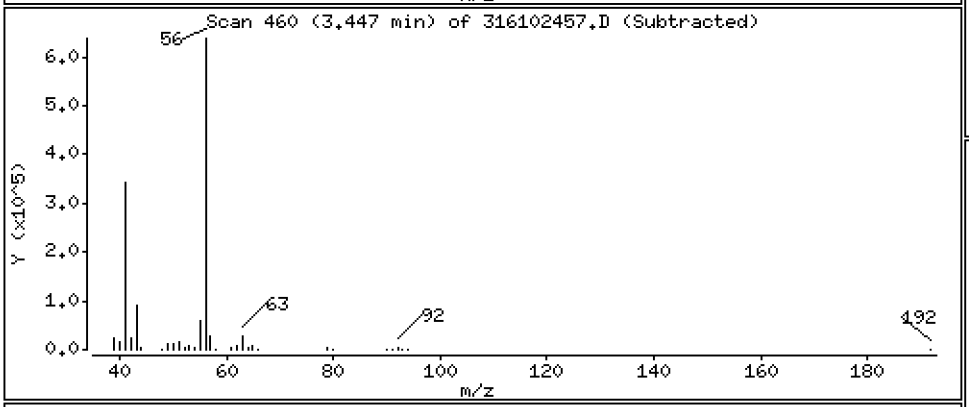
Sample Info: 1237;;1;1;4;;;

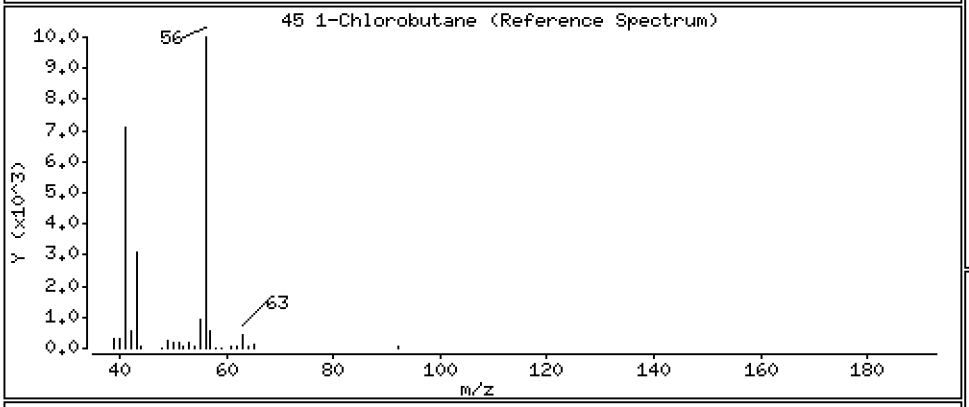
Purge Volume: 5.0 Operator: CJG

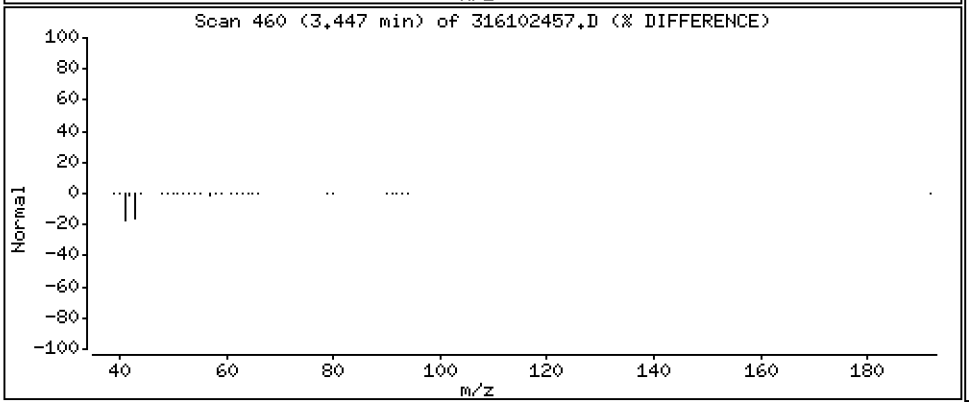
Column phase: DB-VRX Column diameter: 0.25

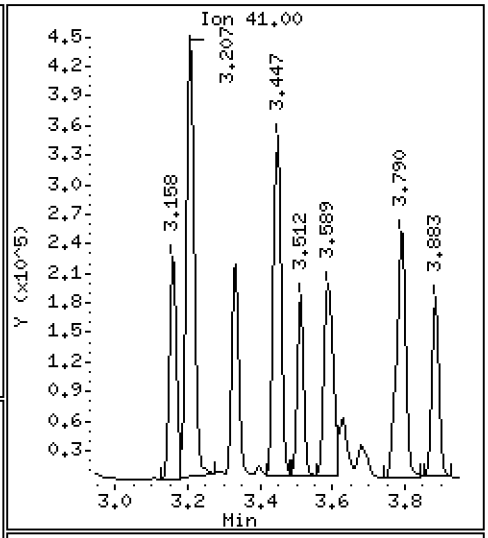
45 1-Chlorobutane Concentration: 49.6444 ug/L

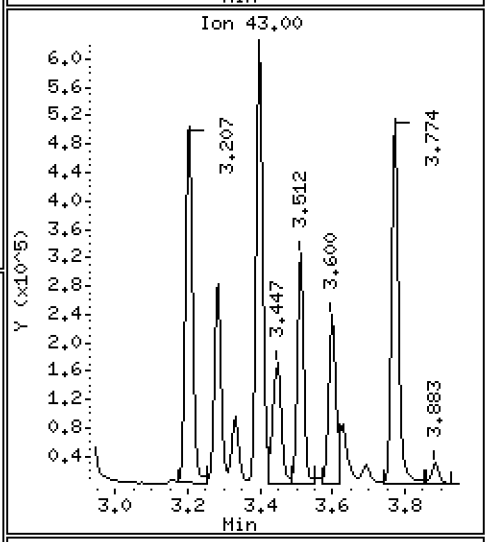


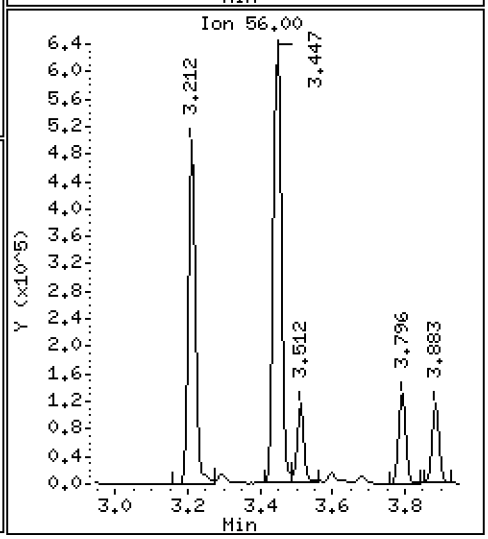












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 53

Date : 25-OCT-2016 00:52

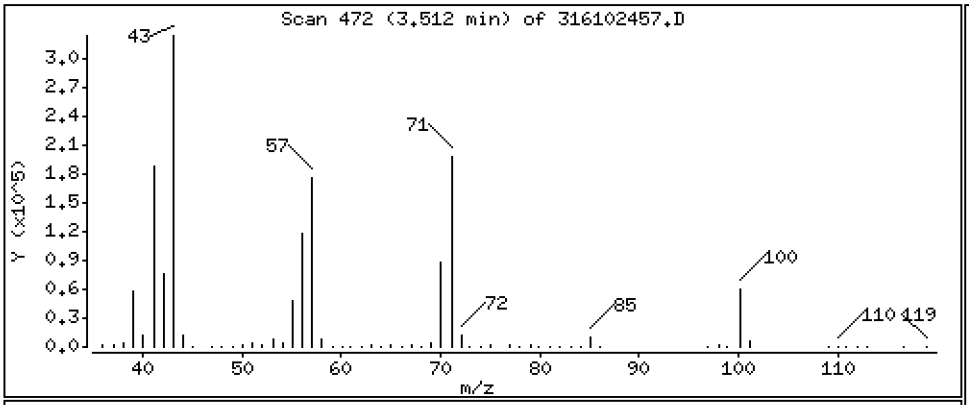
Client ID: Instrument: ms03.i

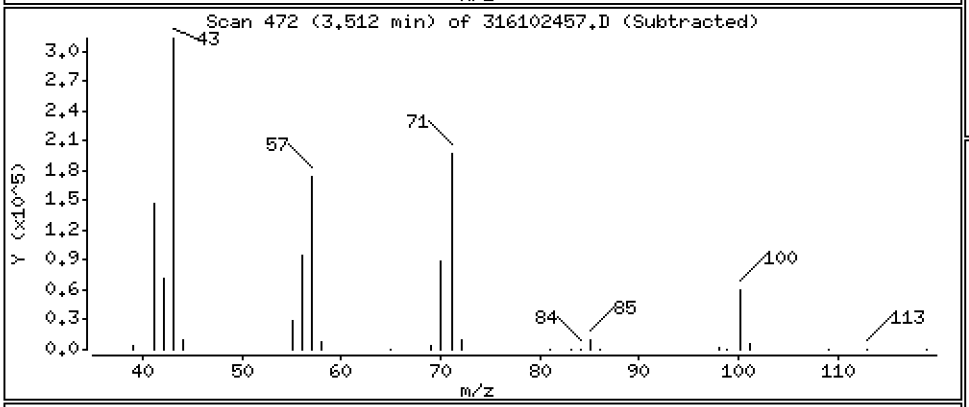
Sample Info: 1237;;1;1;4;;;

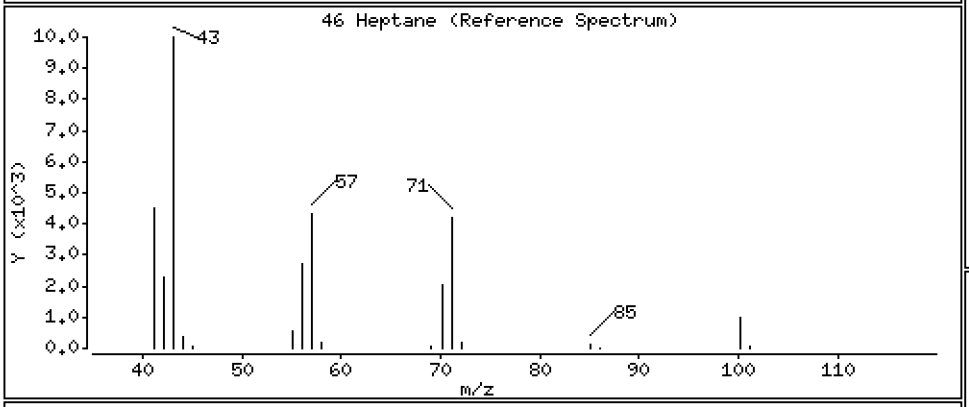
Purge Volume: 5.0 Operator: CJG

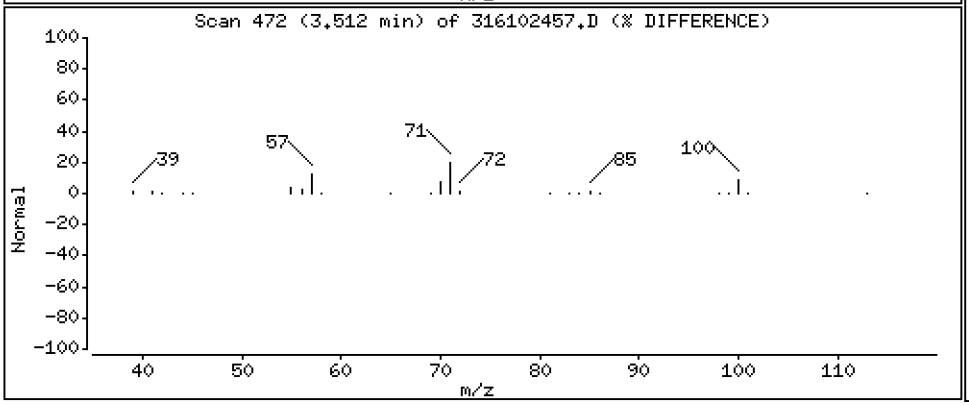
Column phase: DB-VRX Column diameter: 0.25

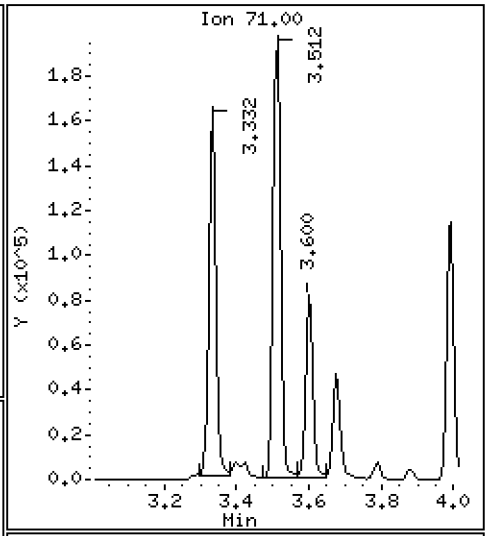
46 Heptane Concentration: 46.9197 ug/L

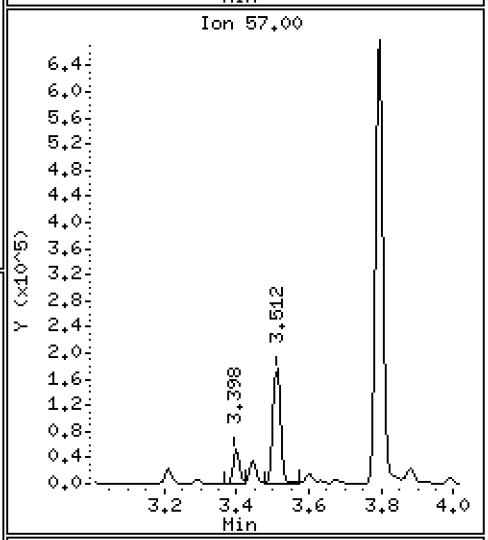


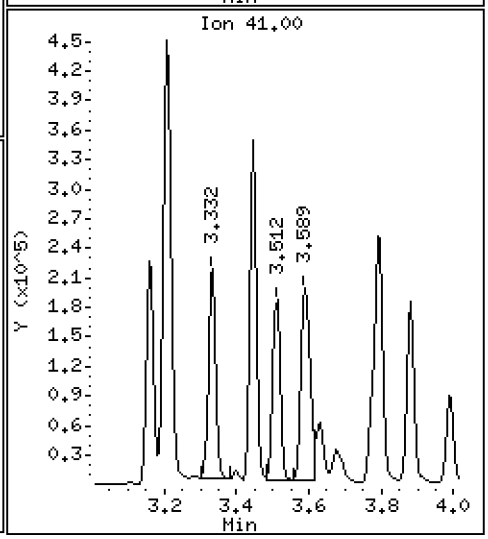












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 54

Date : 25-OCT-2016 00:52

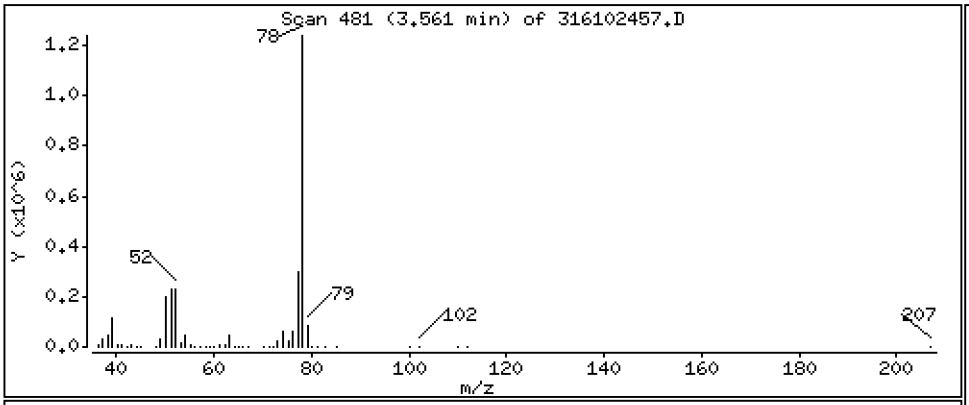
Client ID: Instrument: ms03.i

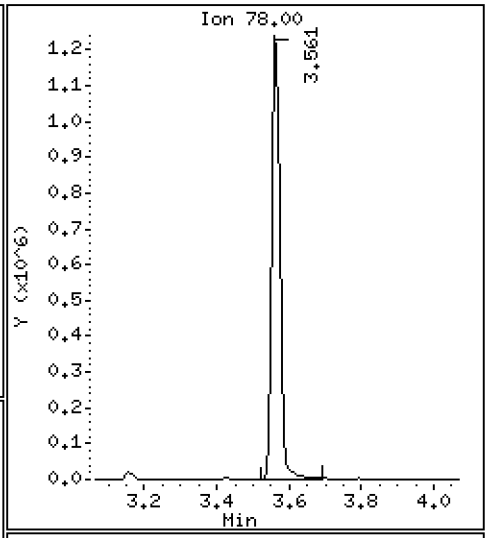
Sample Info: 1237;;1;1;4;;;

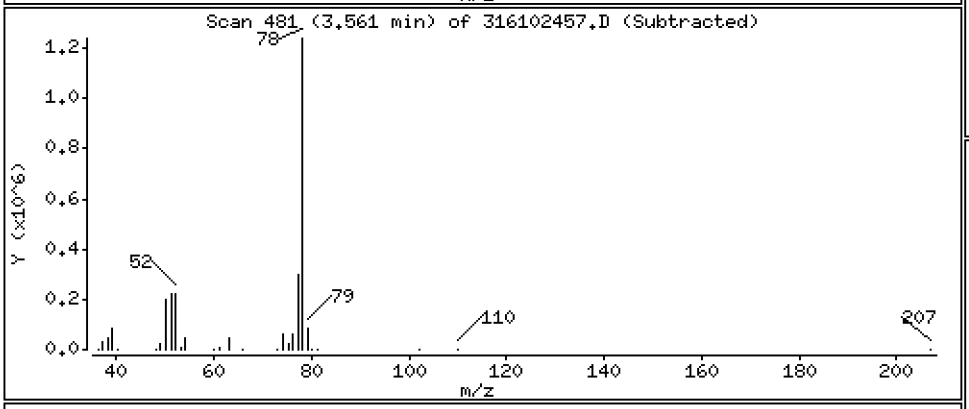
Purge Volume: 5.0 Operator: CJG

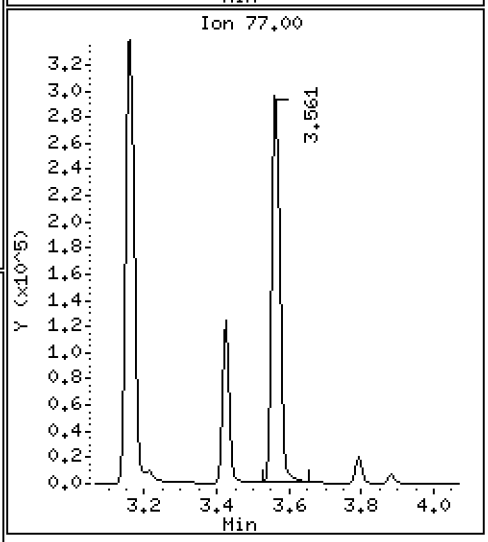
Column phase: DB-VRX Column diameter: 0.25

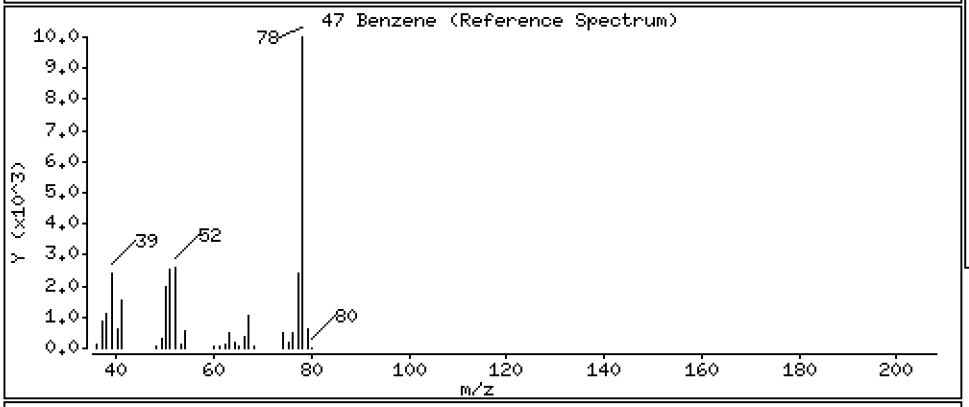
47 Benzene Concentration: 49.9488 ug/L

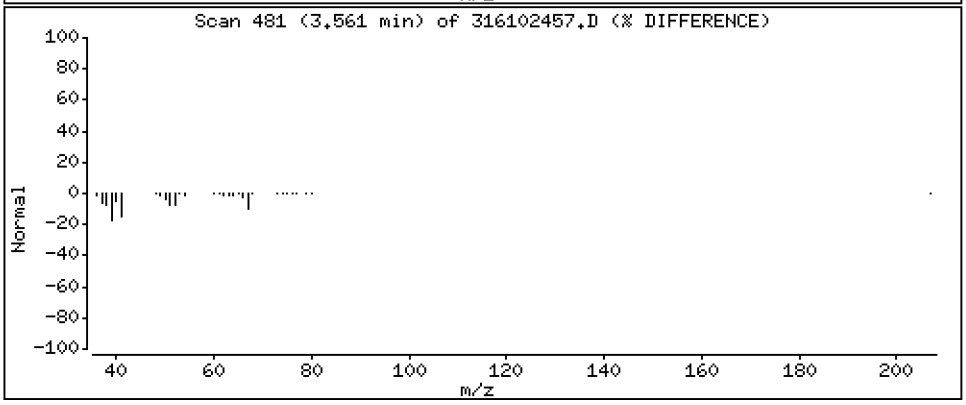












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 55

Date : 25-OCT-2016 00:52

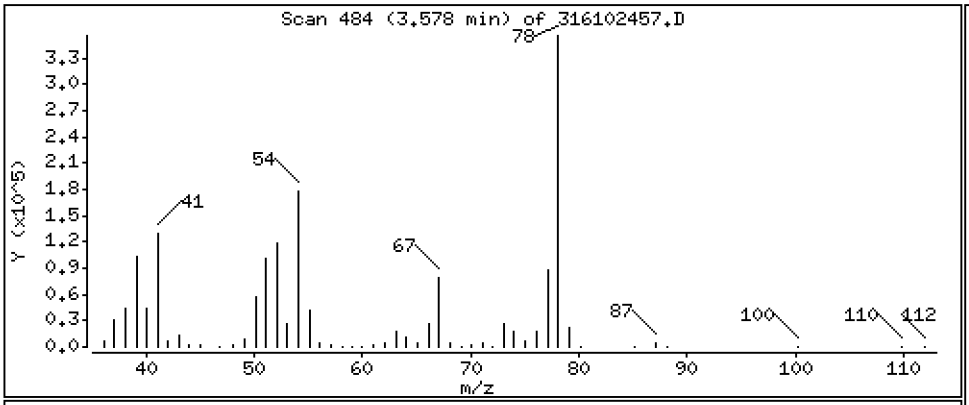
Client ID: Instrument: ms03.i

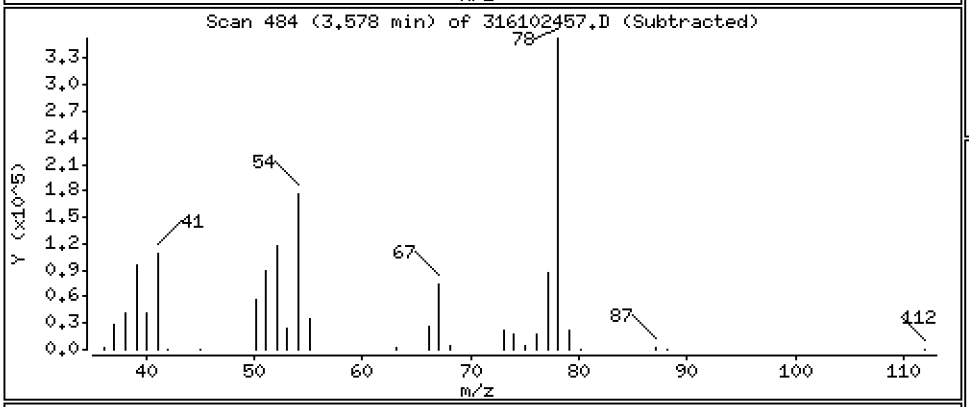
Sample Info: 1237;;1;1;4;;;

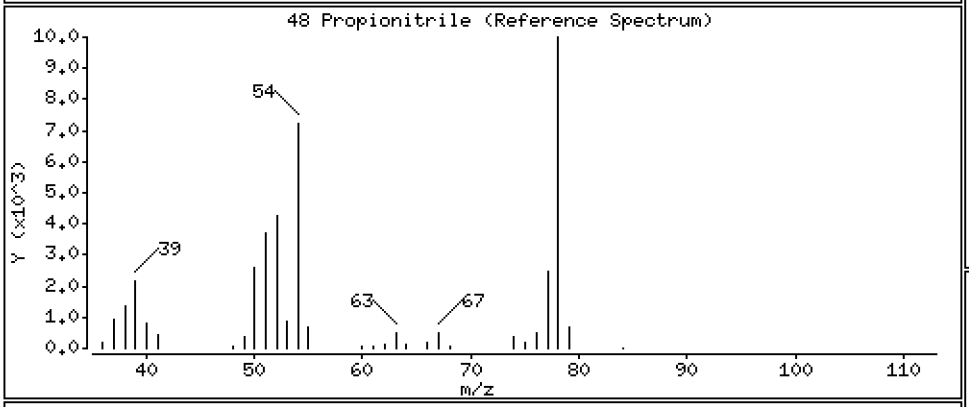
Purge Volume: 5.0 Operator: CJG

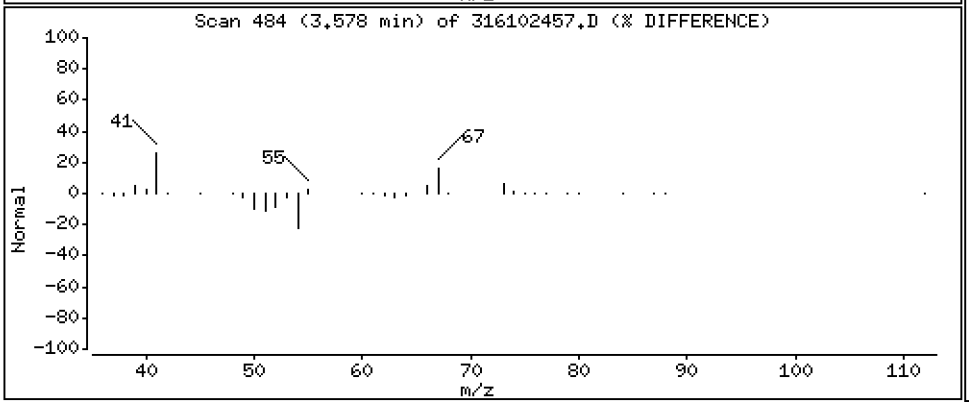
Column phase: DB-VRX Column diameter: 0.25

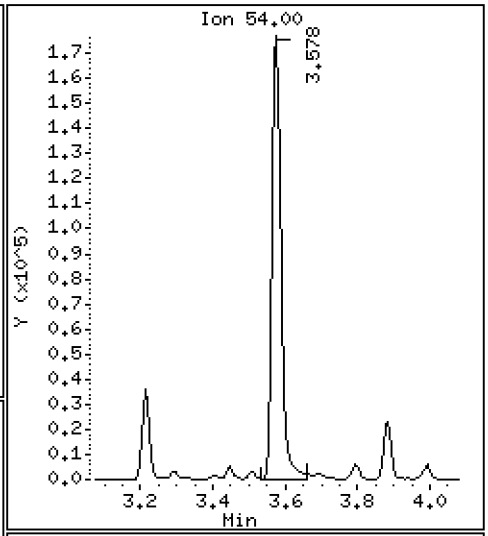
48 Propionitrile Concentration: 257.569 ug/L

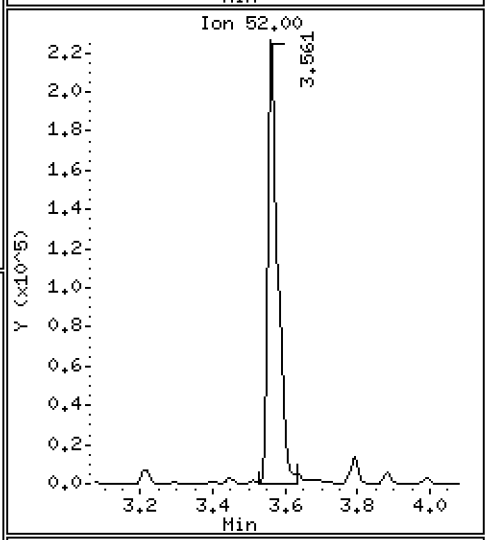


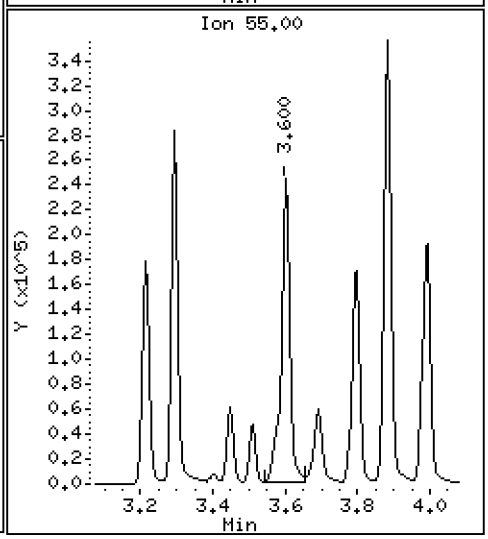












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 56

Date : 25-OCT-2016 00:52

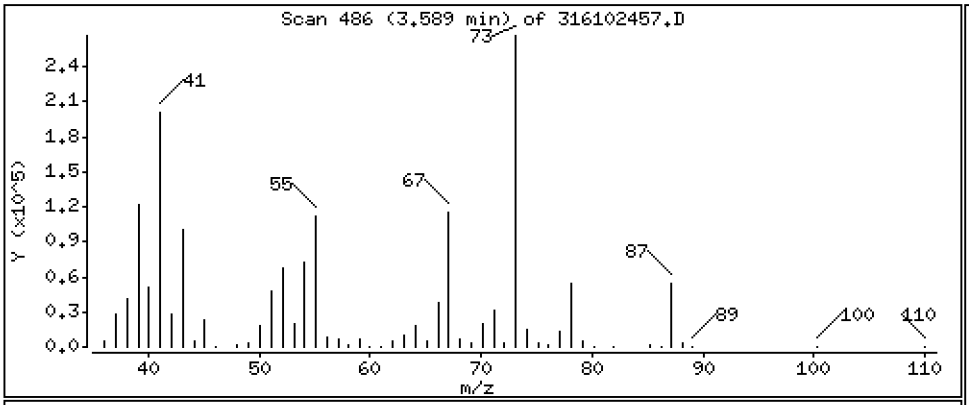
Client ID: Instrument: ms03.i

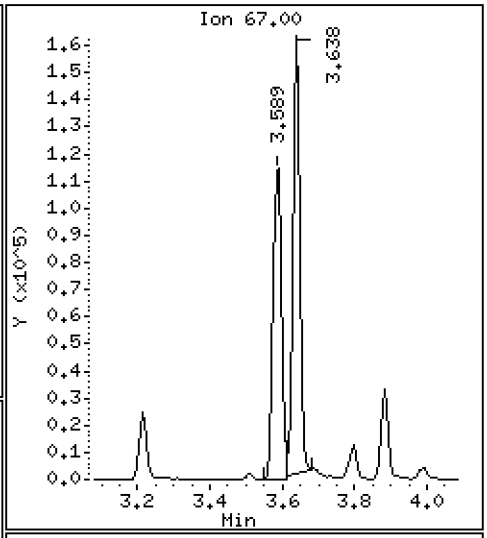
Sample Info: 1237;;1;1;4;;;

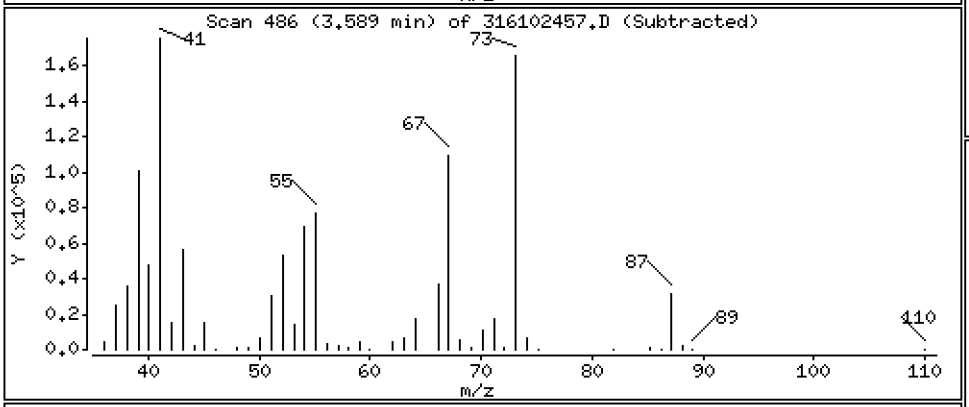
Purge Volume: 5.0 Operator: CJG

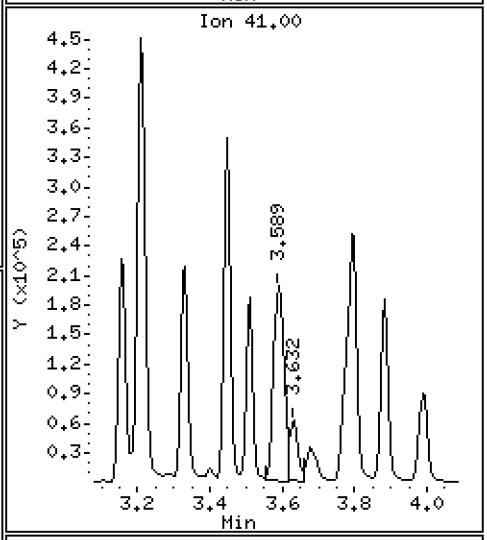
Column phase: DB-VRX Column diameter: 0.25

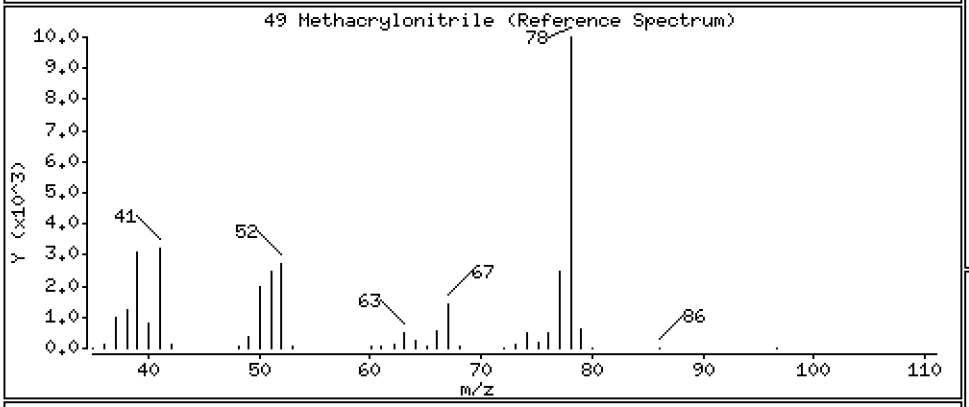
49 Methacrylonitrile Concentration: 51.2907 ug/L

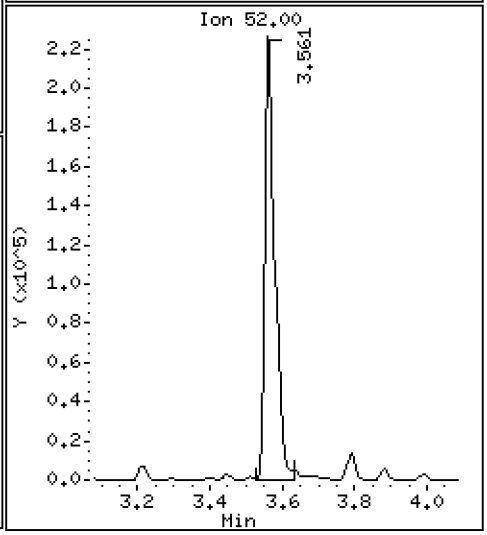


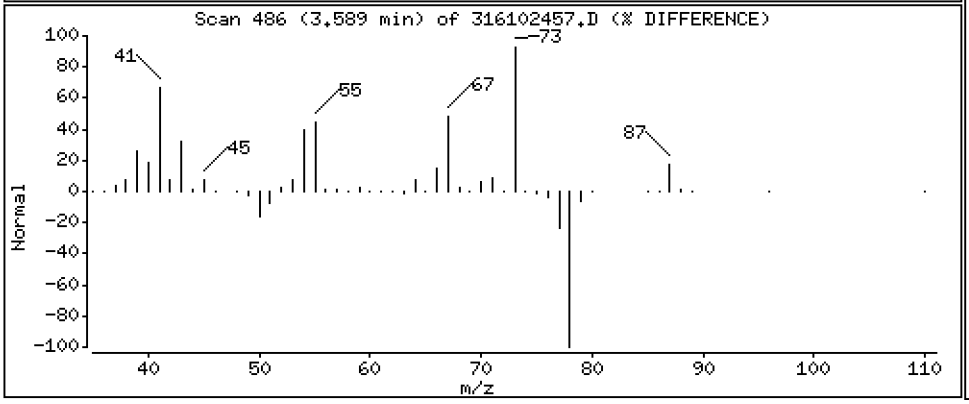












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 57

Date : 25-OCT-2016 00:52

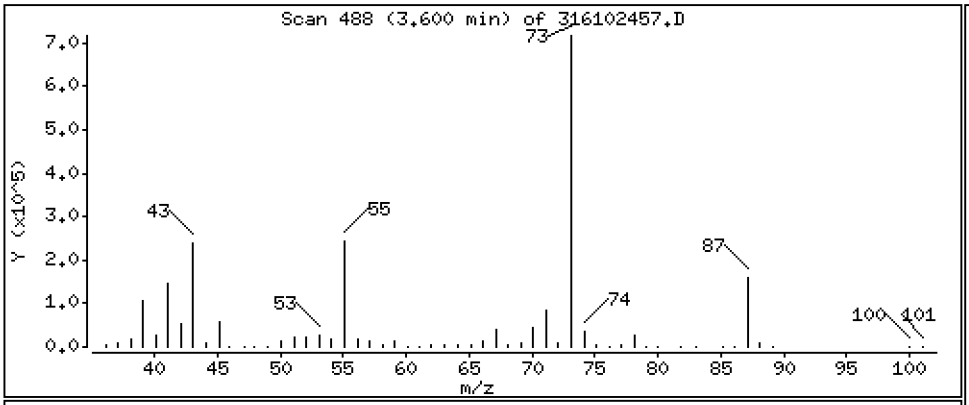
Client ID: Instrument: ms03.i

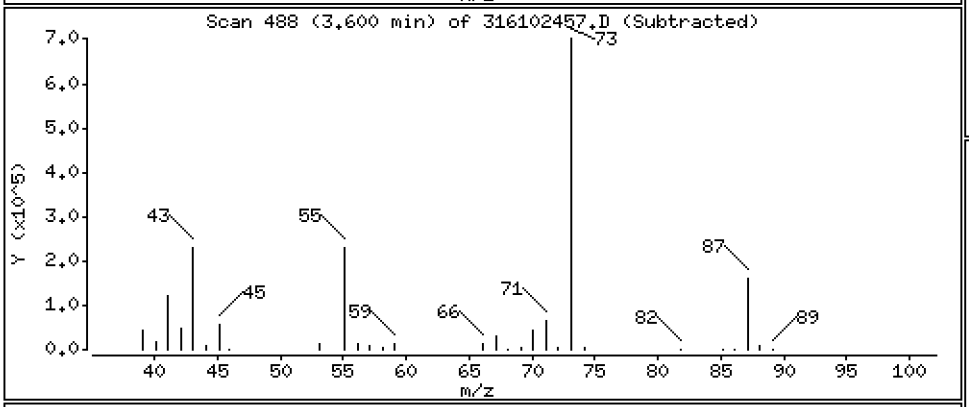
Sample Info: 1237;;1;1;4;;;

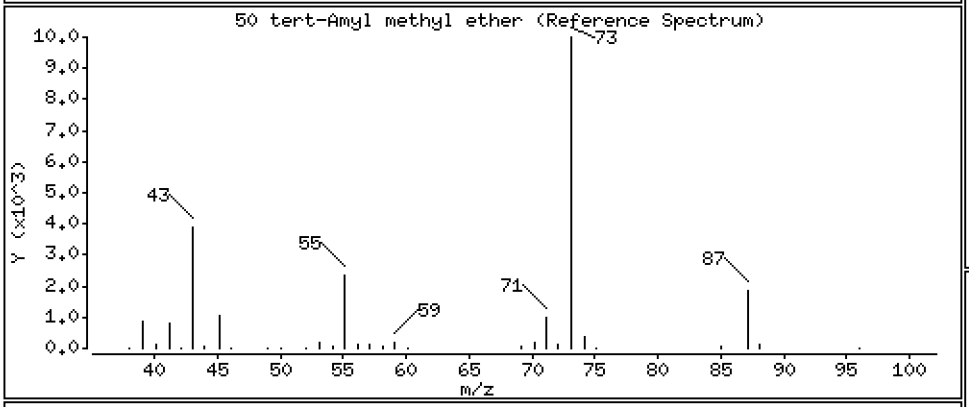
Purge Volume: 5.0 Operator: CJG

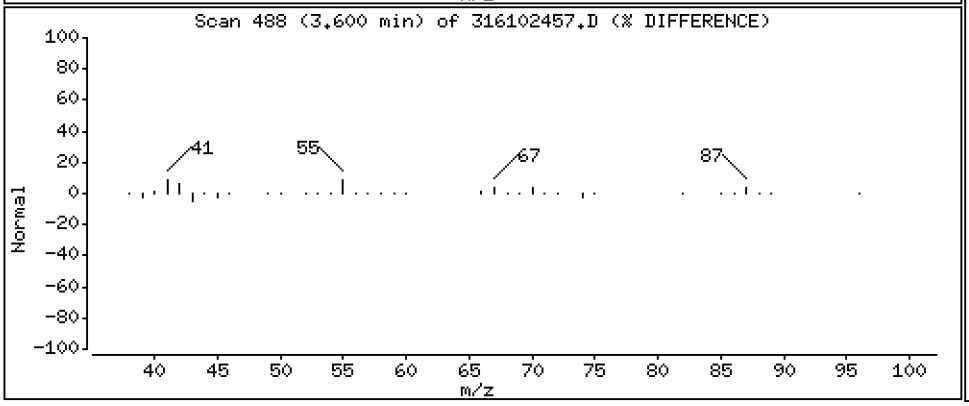
Column phase: DB-VRX Column diameter: 0.25

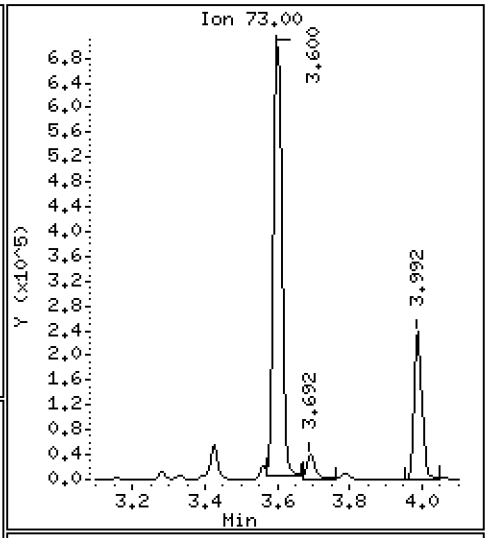
50 tert-Amyl methyl ether Concentration: 49.5983 ug/L

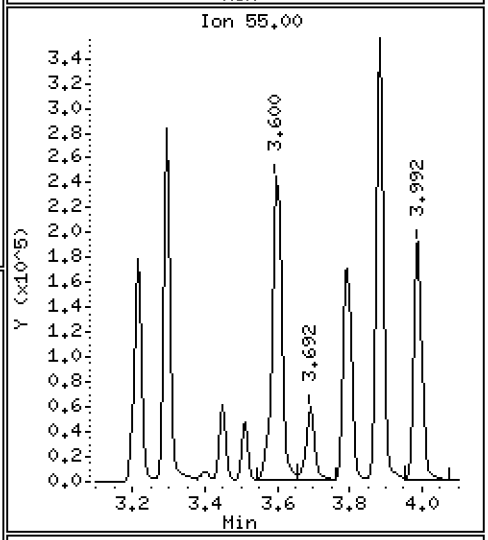


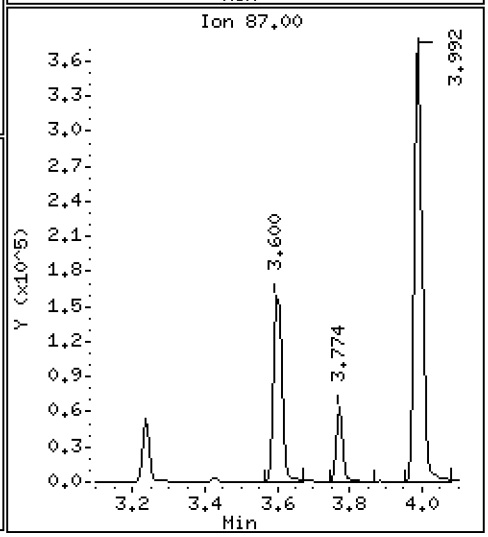












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 58

Date : 25-OCT-2016 00:52

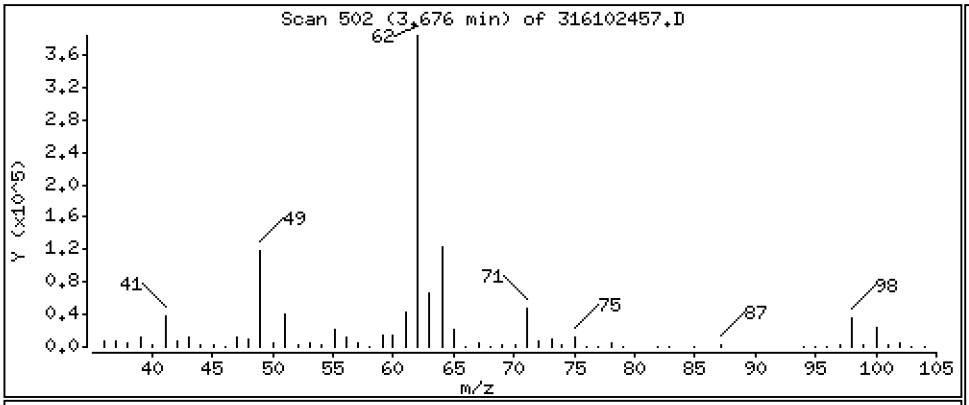
Client ID: Instrument: ms03.i

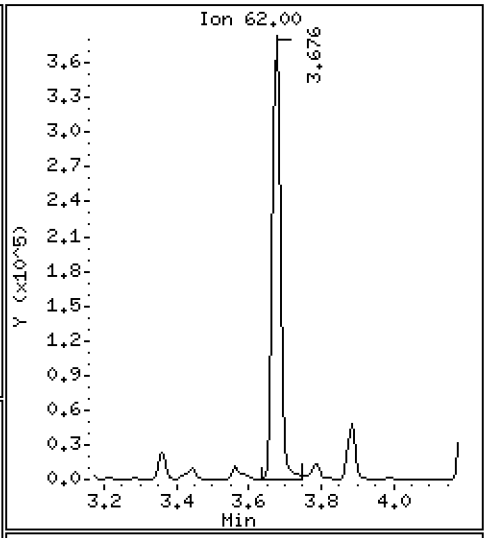
Sample Info: 1237;;1;1;4;;;

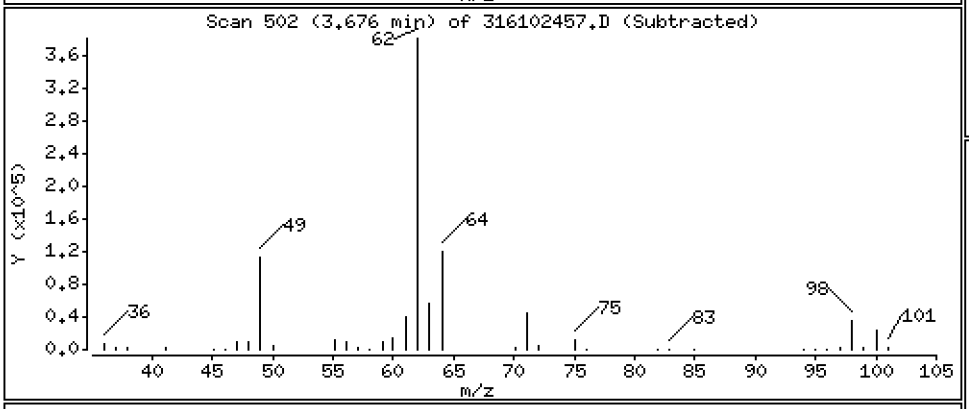
Purge Volume: 5.0 Operator: CJG

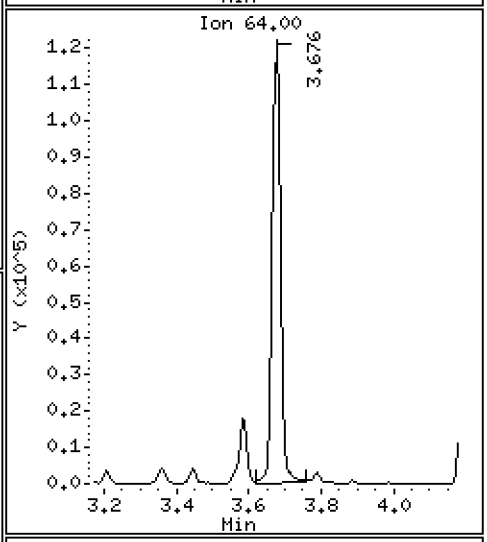
Column phase: DB-VRX Column diameter: 0.25

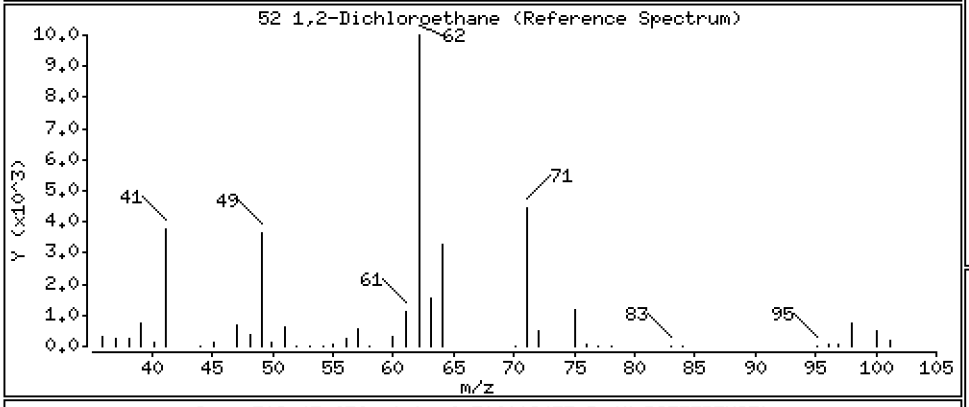
52 1,2-Dichloroethane Concentration: 50.0493 ug/L

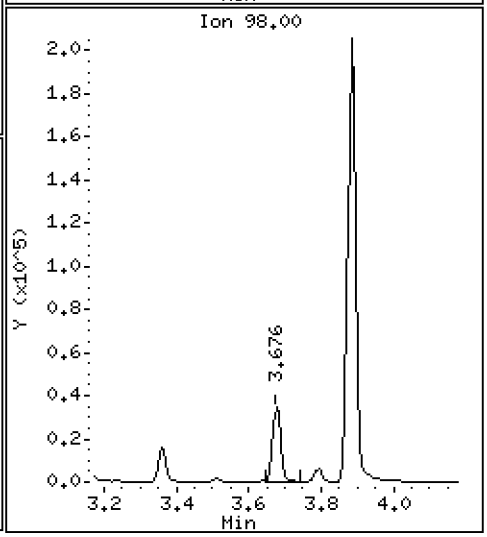


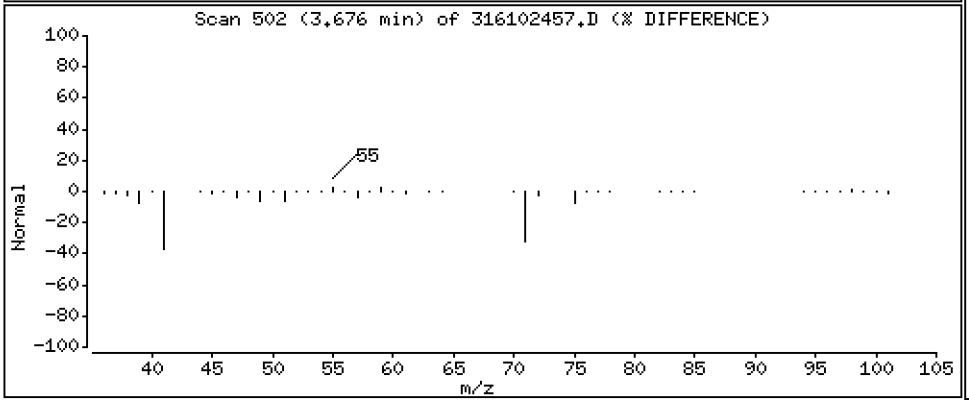












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 59

Date : 25-OCT-2016 00:52

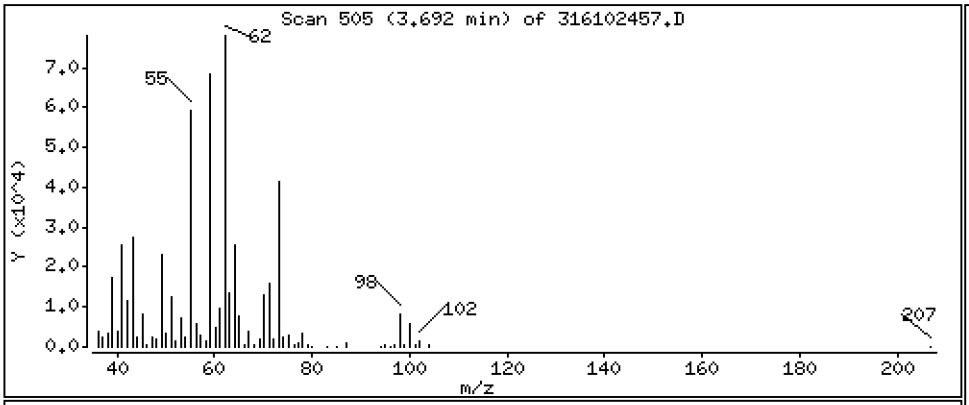
Client ID: Instrument: ms03.i

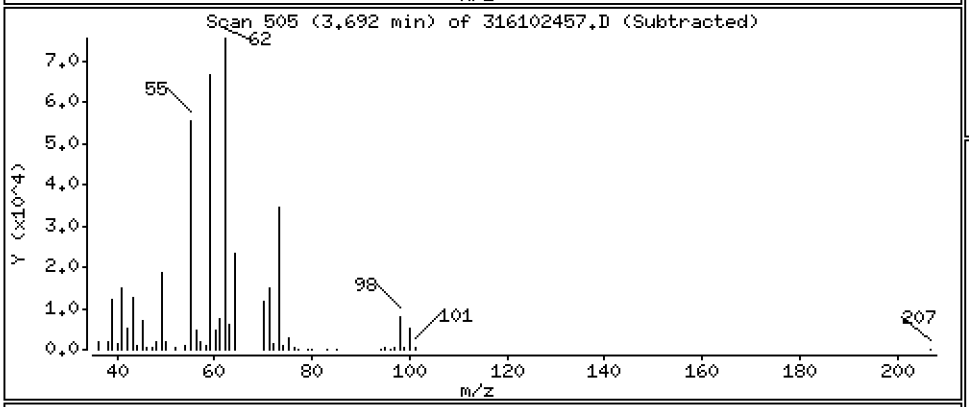
Sample Info: 1237;;1;1;4;;;

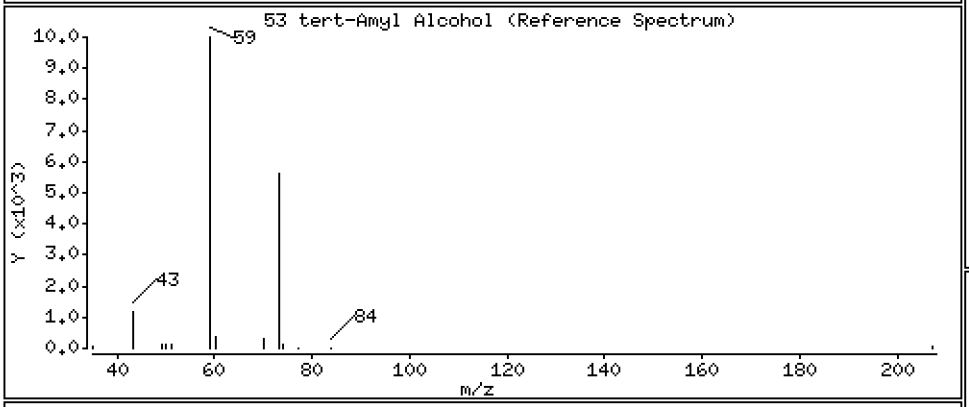
Purge Volume: 5.0 Operator: CJG

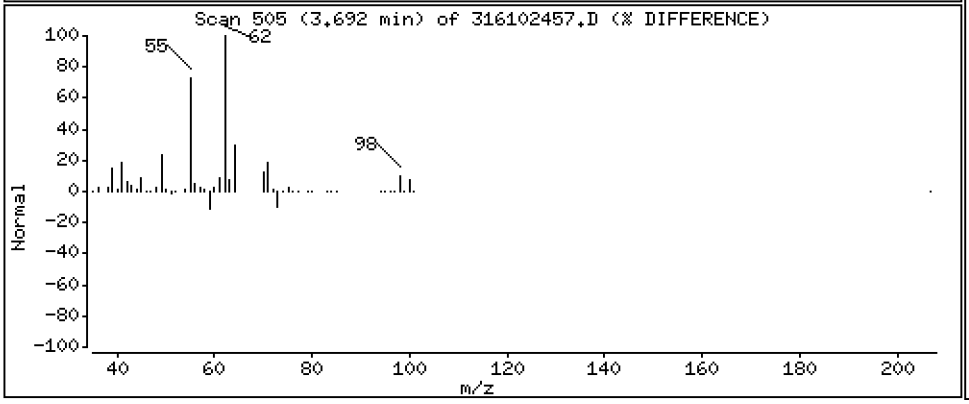
Column phase: DB-VRX Column diameter: 0.25

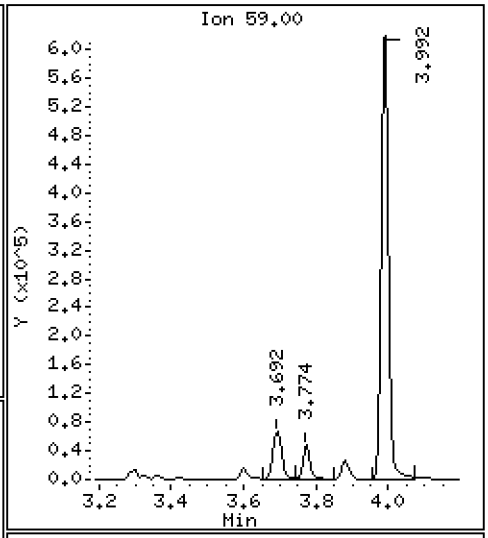
53 tert-Amyl Alcohol Concentration: 258.795 ug/L

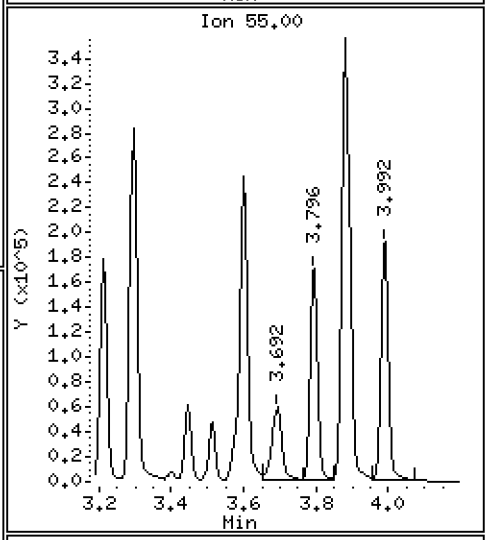


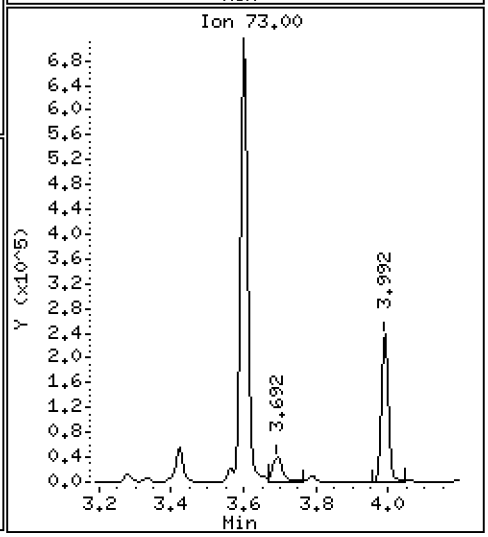












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 60

Date : 25-OCT-2016 00:52

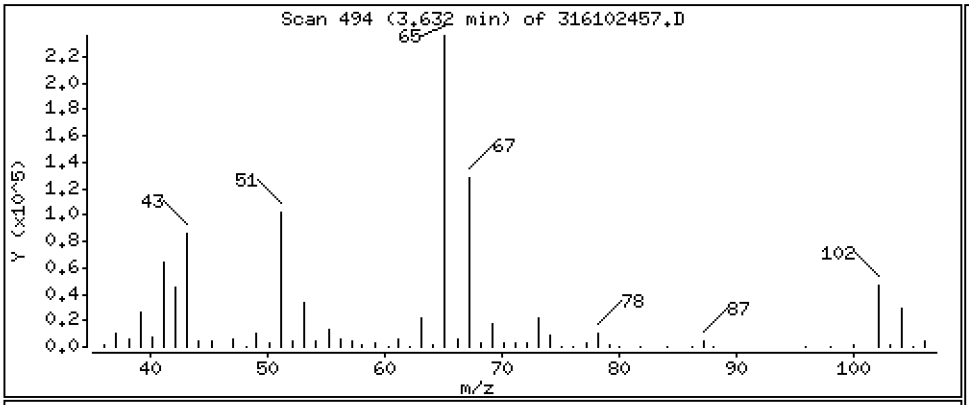
Client ID: Instrument: ms03.i

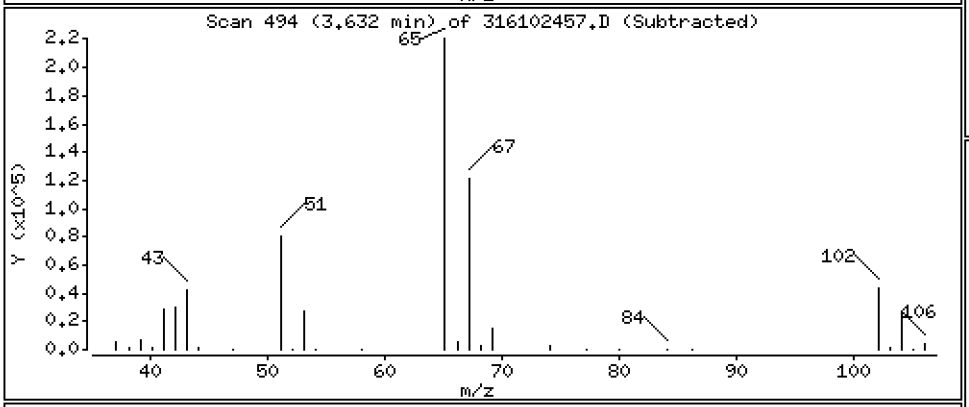
Sample Info: 1237;;1;1;4;;;

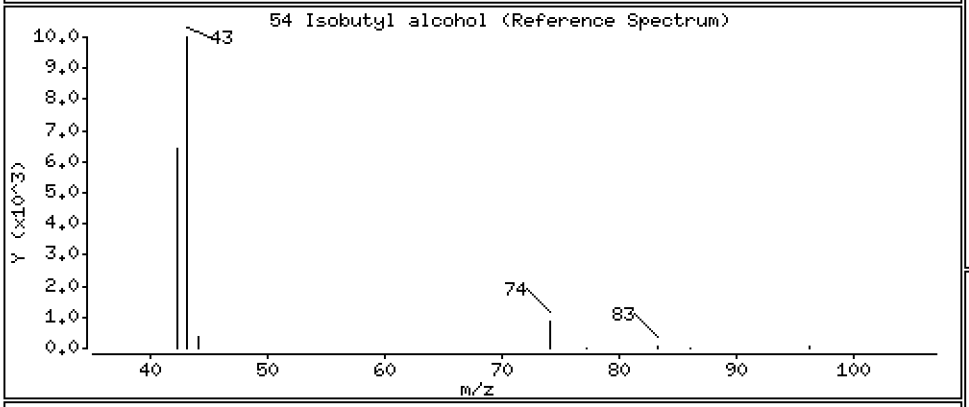
Purge Volume: 5.0 Operator: CJG

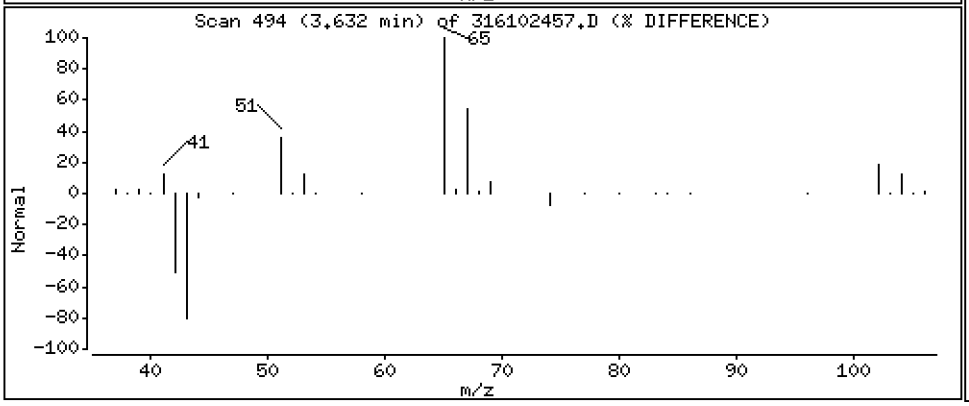
Column phase: DB-VRX Column diameter: 0.25

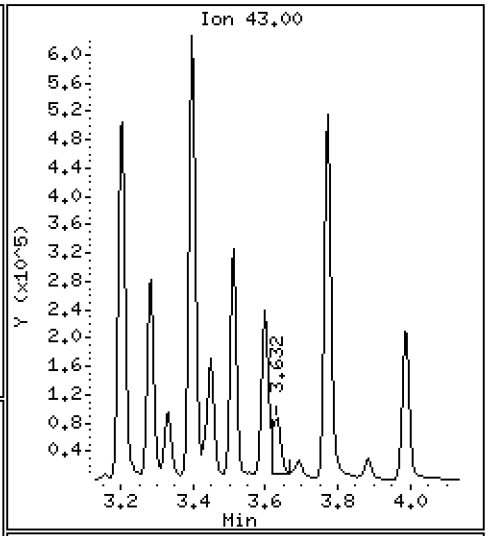
54 Isobutyl alcohol Concentration: 554.161 ug/L

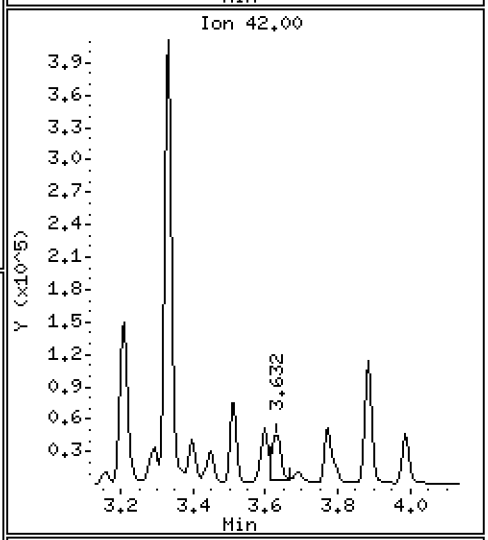


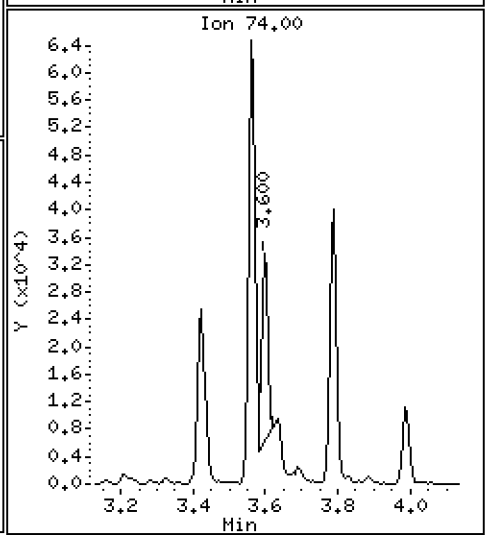












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 61

Date : 25-OCT-2016 00:52

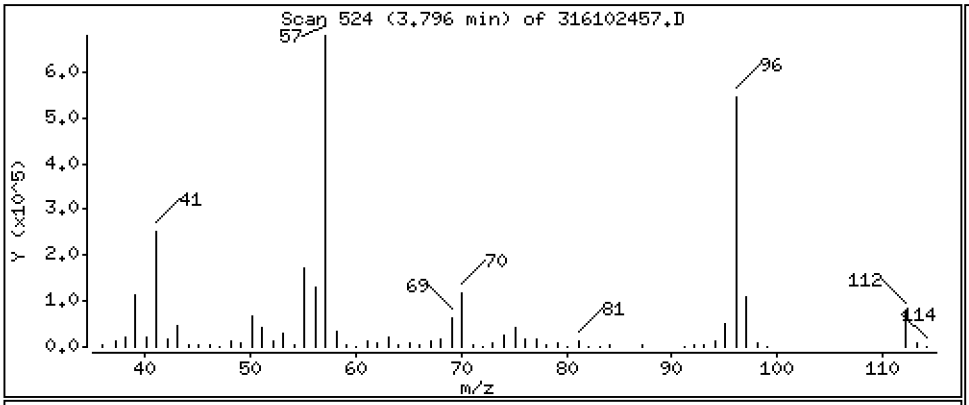
Client ID: Instrument: ms03.i

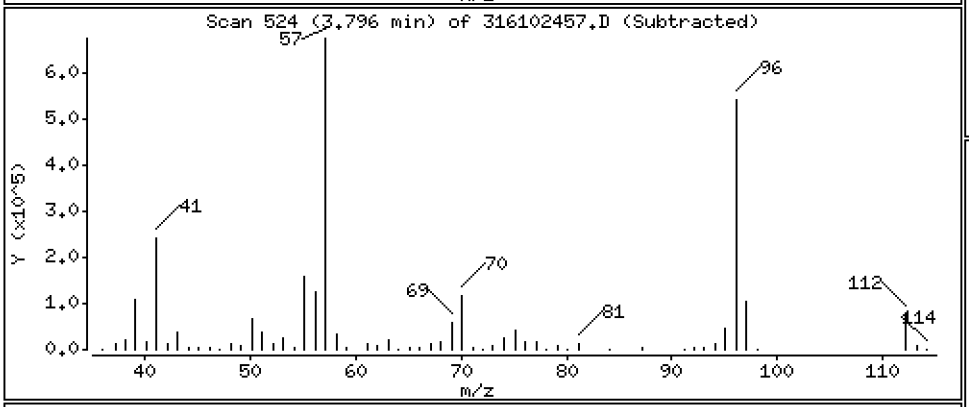
Sample Info: 1237;;1;1;4;;;

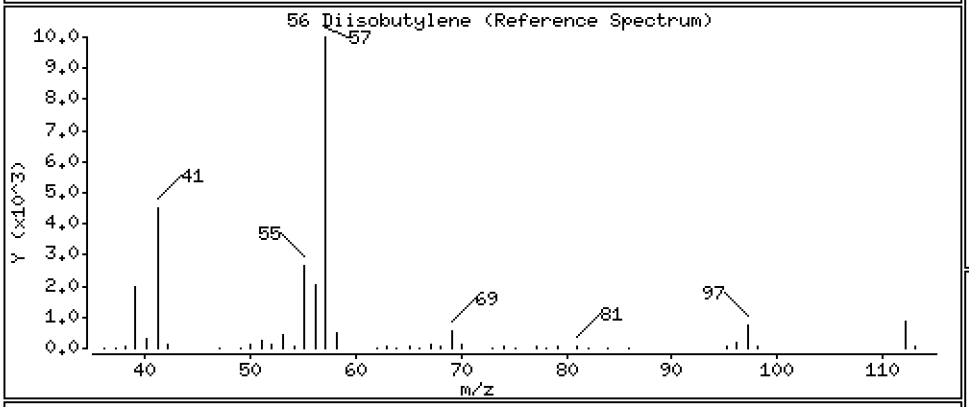
Purge Volume: 5.0 Operator: CJG

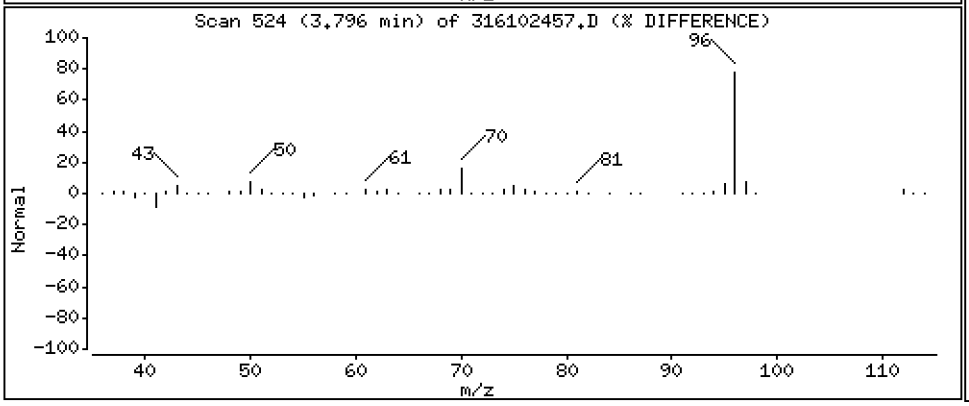
Column phase: DB-VRX Column diameter: 0.25

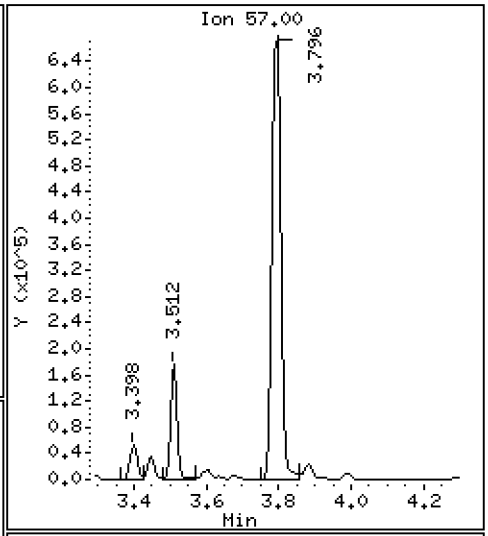
56 Diisobutylene Concentration: 48.1486 ug/L

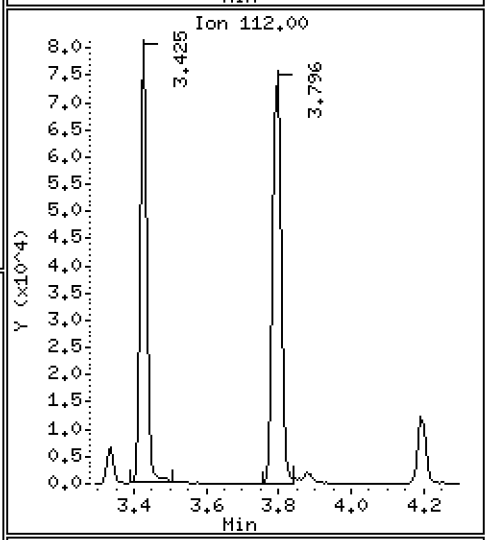


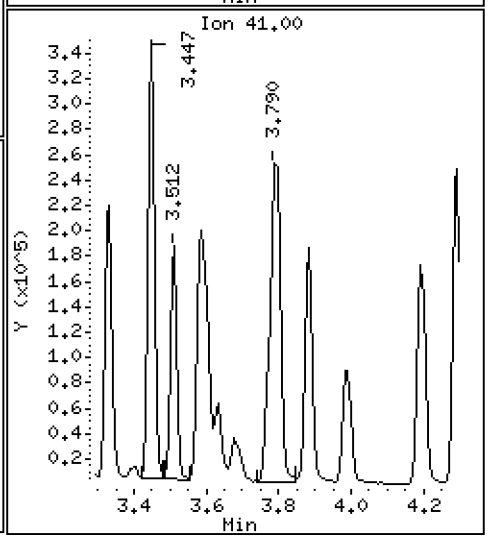












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 62

Date : 25-OCT-2016 00:52

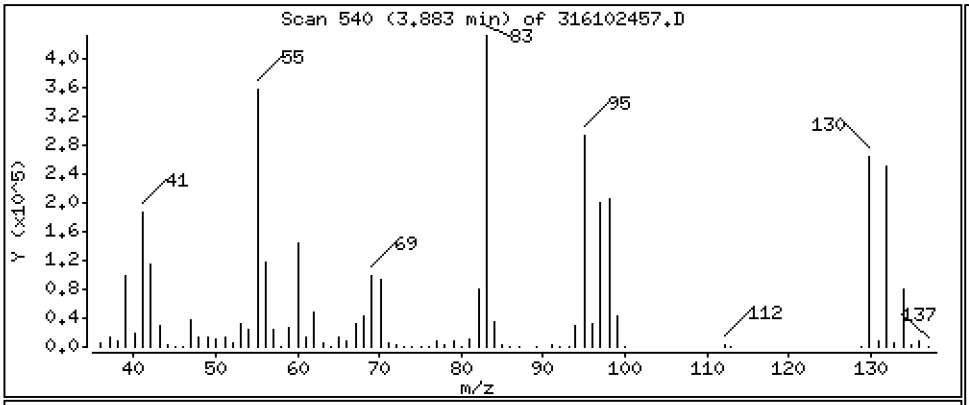
Client ID: Instrument: ms03.i

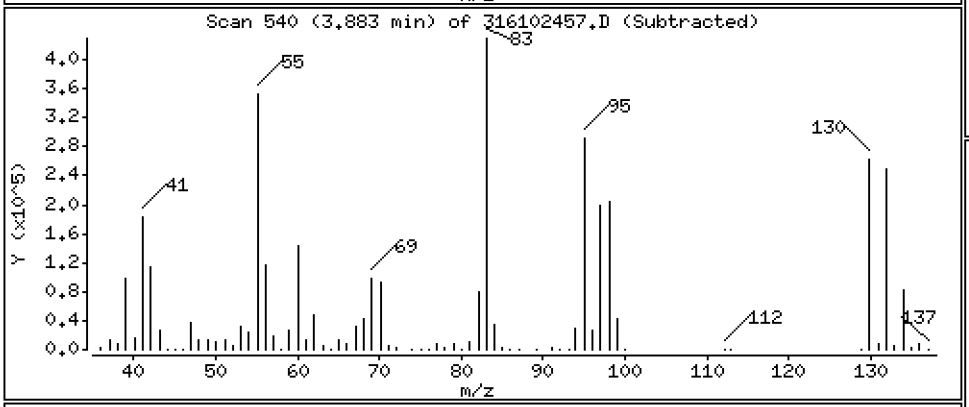
Sample Info: 1237;;1;1;4;;;

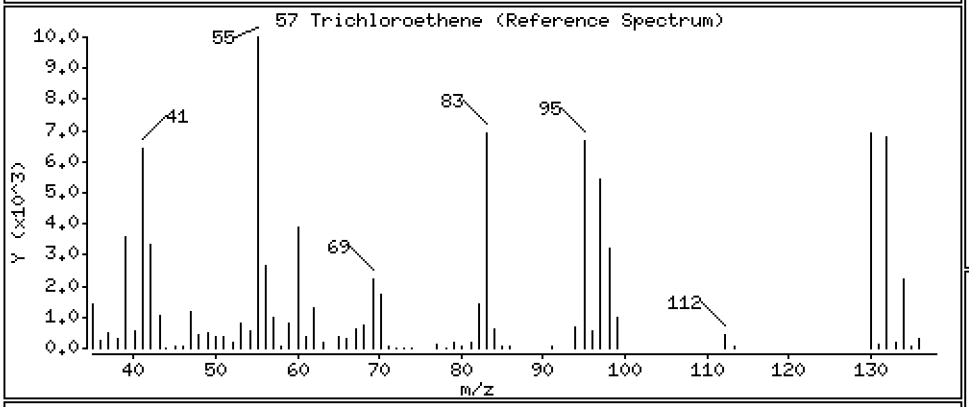
Purge Volume: 5.0 Operator: CJG

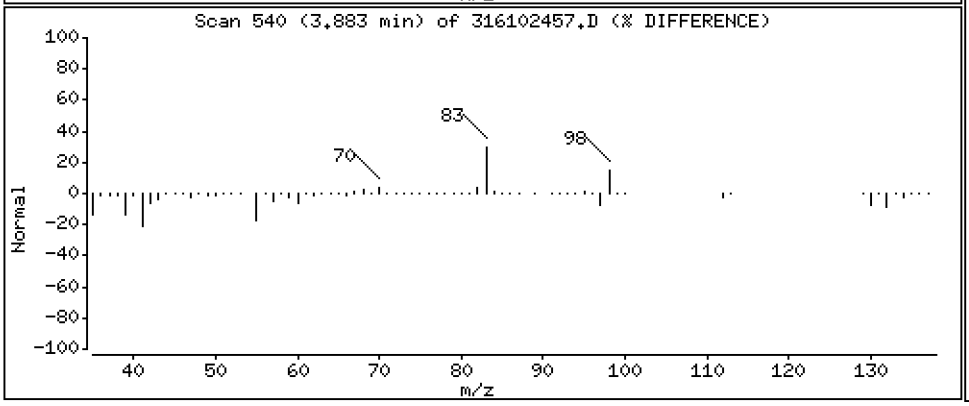
Column phase: DB-VRX Column diameter: 0.25

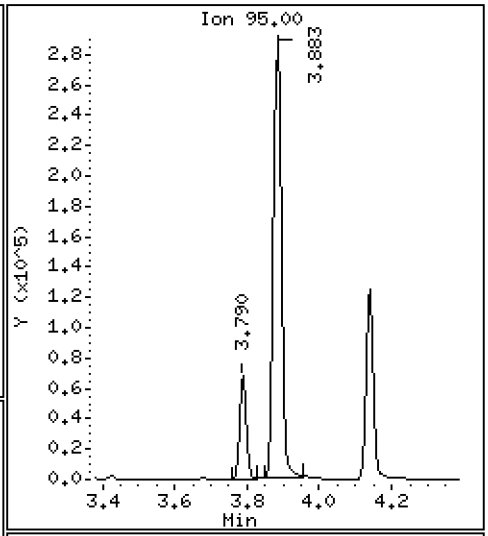
57 Trichloroethene Concentration: 49.6362 ug/L

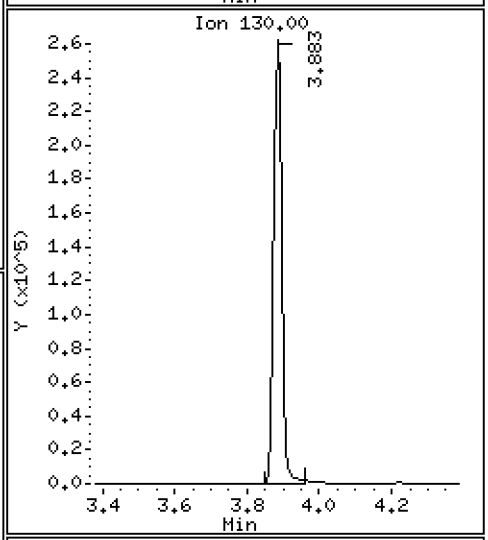


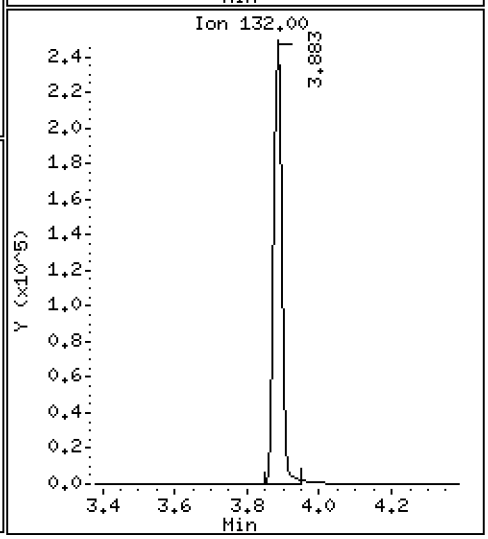












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 63

Date : 25-OCT-2016 00:52

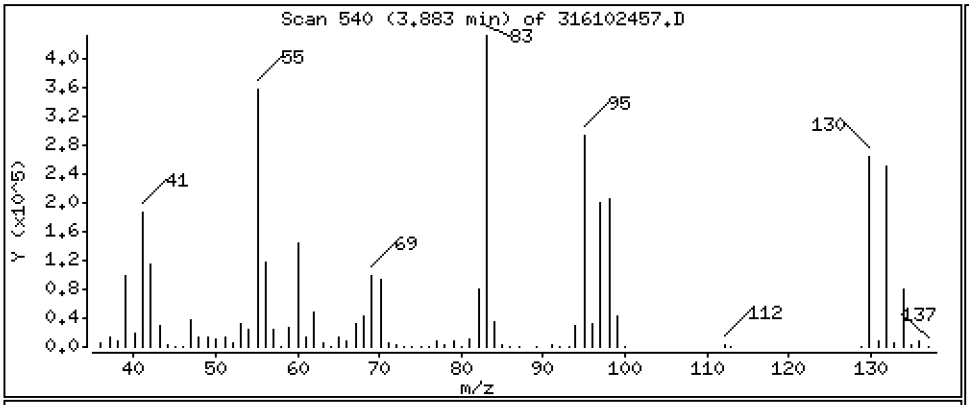
Client ID: Instrument: ms03.i

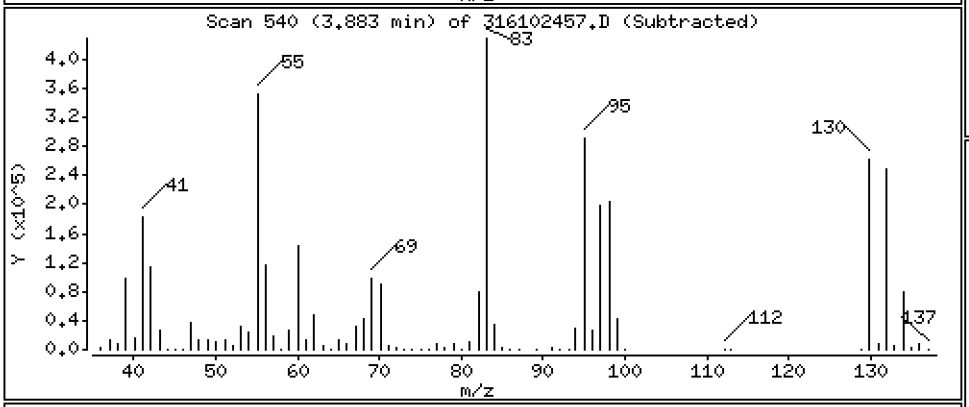
Sample Info: 1237;;1;1;4;;;

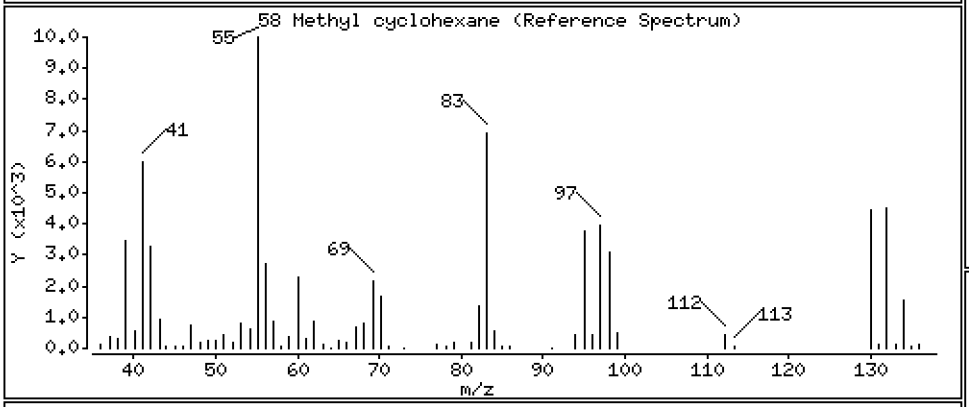
Purge Volume: 5.0 Operator: CJG

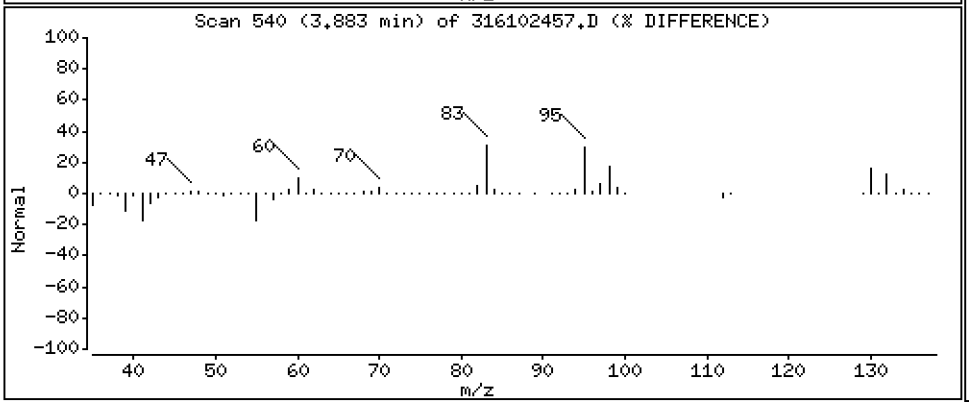
Column phase: DB-VRX Column diameter: 0.25

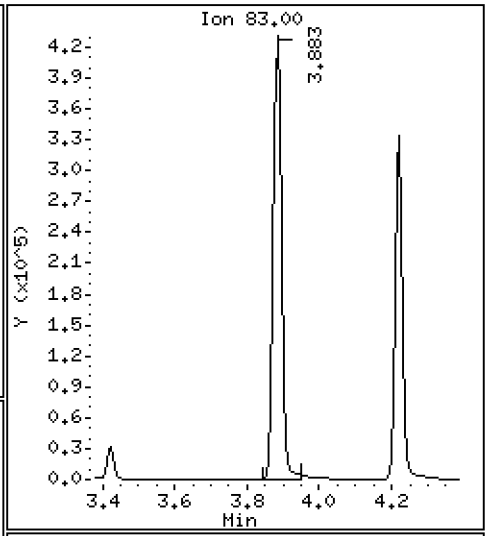
58 Methyl cyclohexane Concentration: 49.0502 ug/L

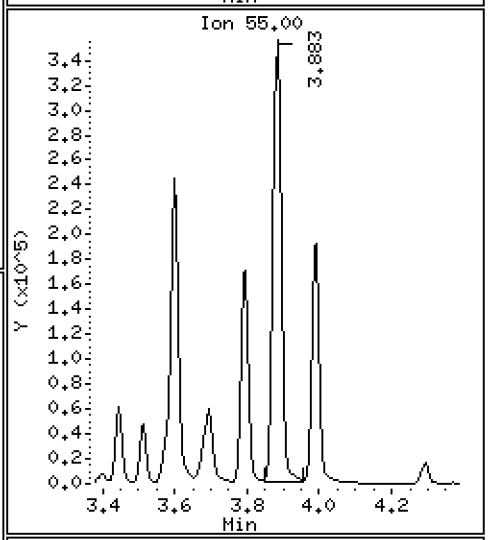


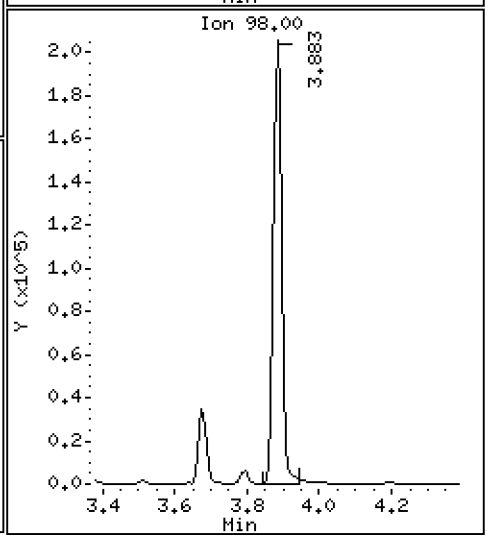












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 64

Date : 25-OCT-2016 00:52

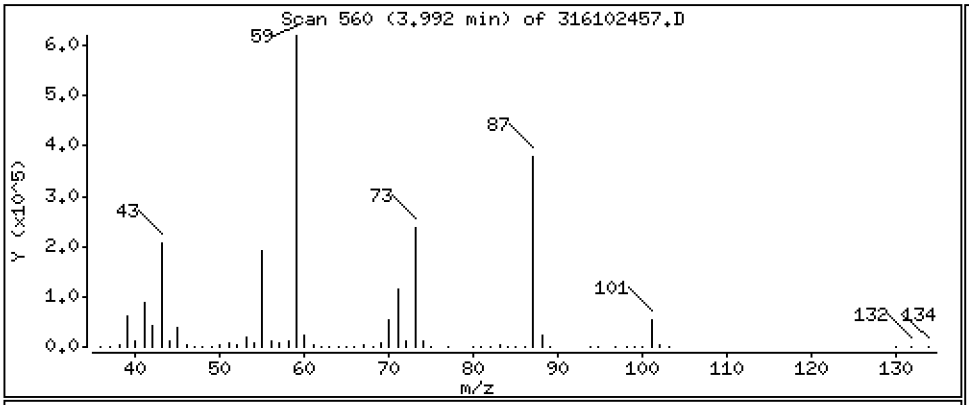
Client ID: Instrument: ms03.i

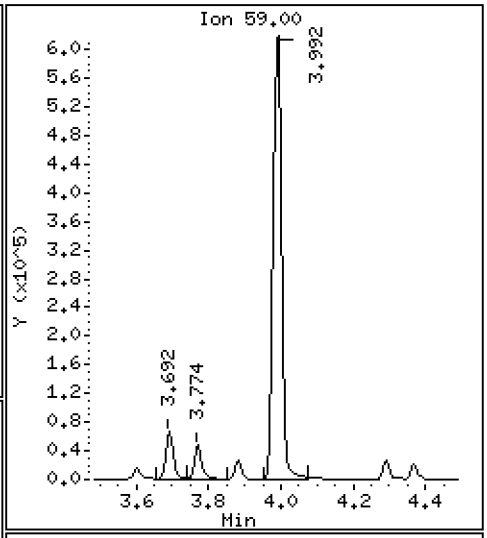
Sample Info: 1237;;1;1;4;;;

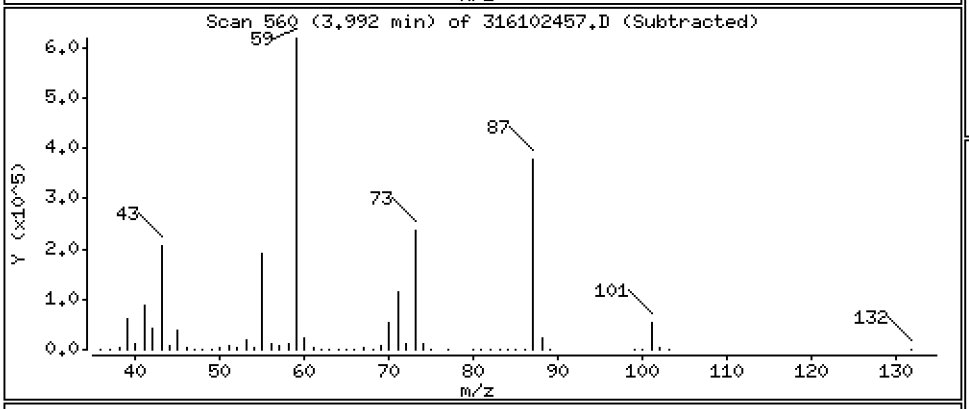
Purge Volume: 5.0 Operator: CJG

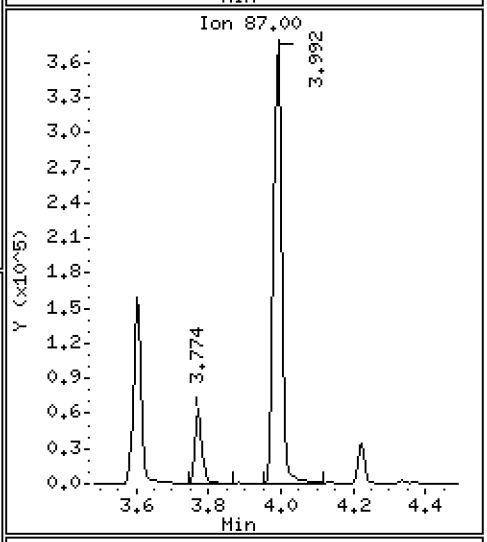
Column phase: DB-VRX Column diameter: 0.25

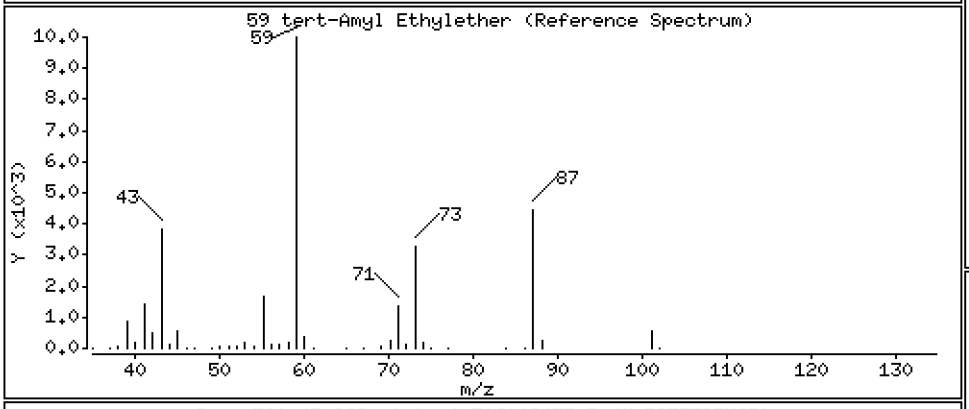
59 tert-Amyl Ethylether Concentration: 49.1298 ug/L

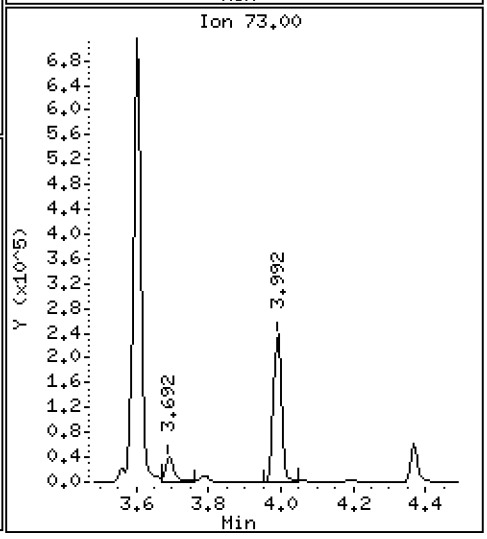


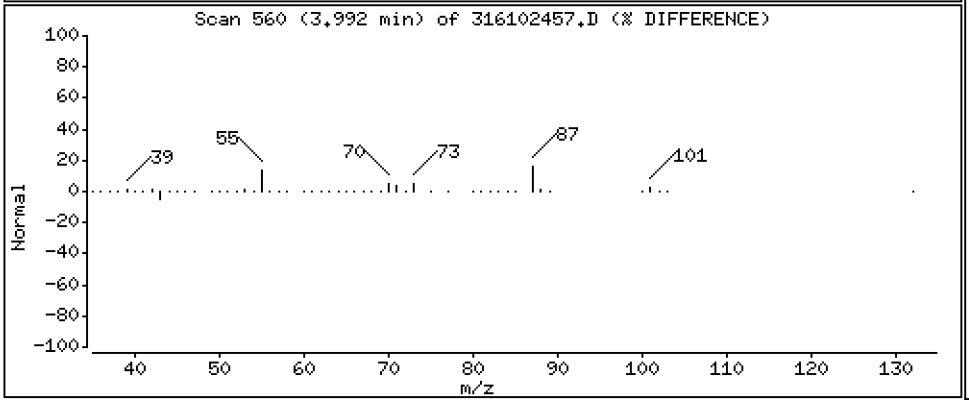












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 65

Date : 25-OCT-2016 00:52

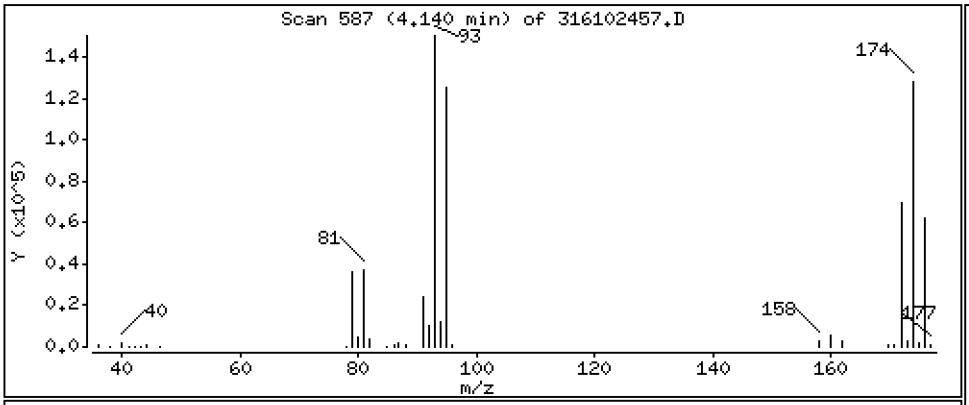
Client ID: Instrument: ms03.i

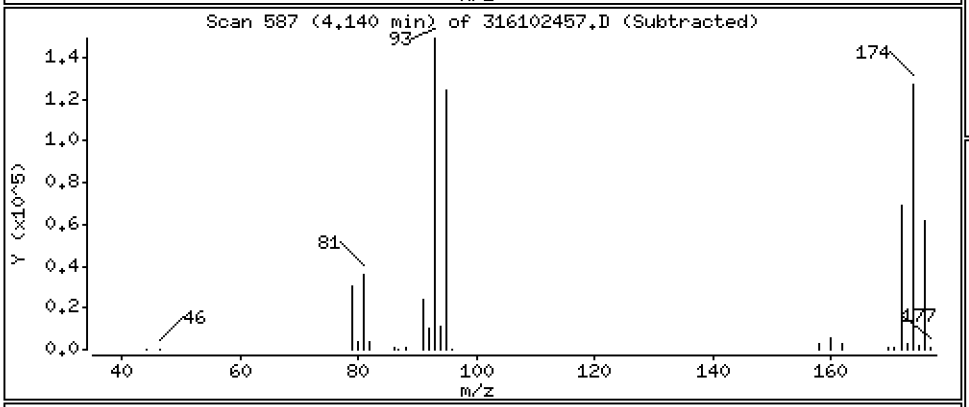
Sample Info: 1237;;1;1;4;;;

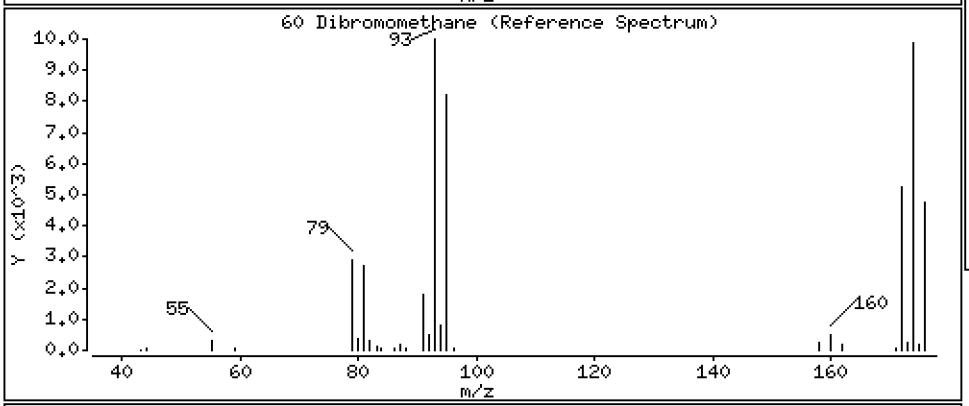
Purge Volume: 5.0 Operator: CJG

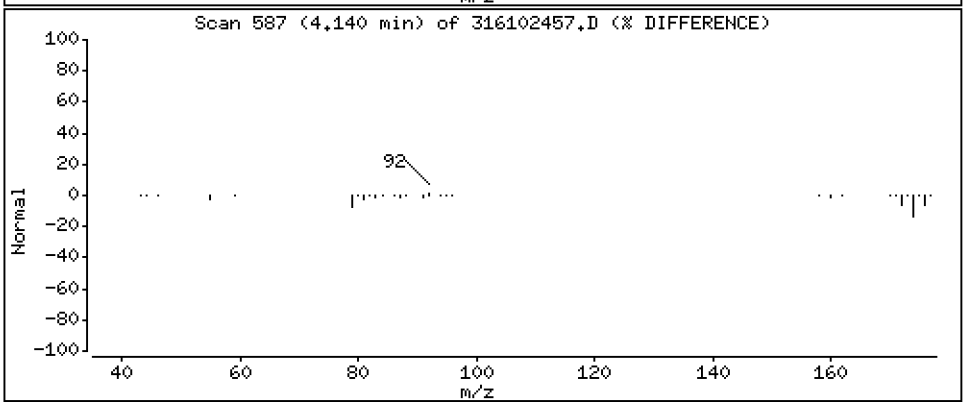
Column phase: DB-VRX Column diameter: 0.25

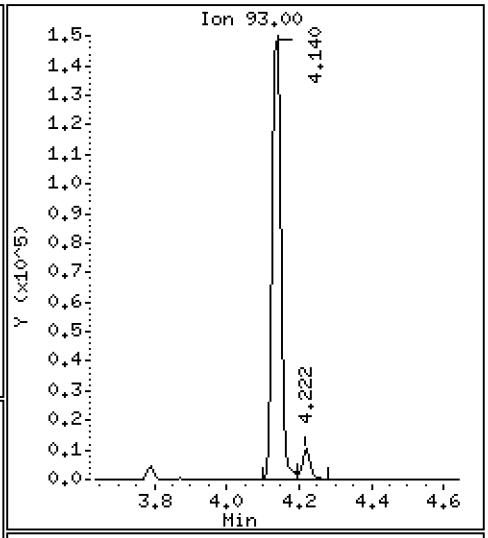
60 Dibromomethane Concentration: 49.5857 ug/L

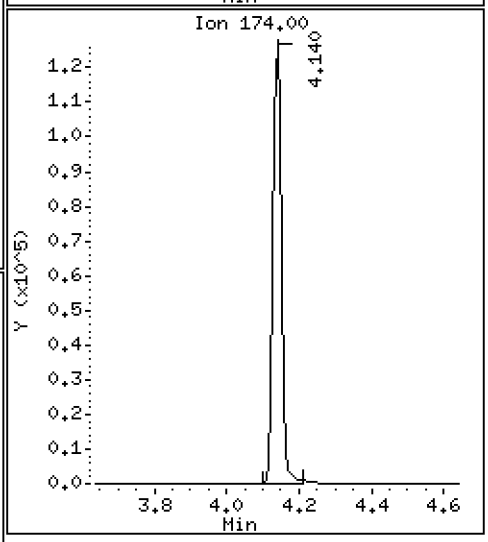












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 66

Date : 25-OCT-2016 00:52

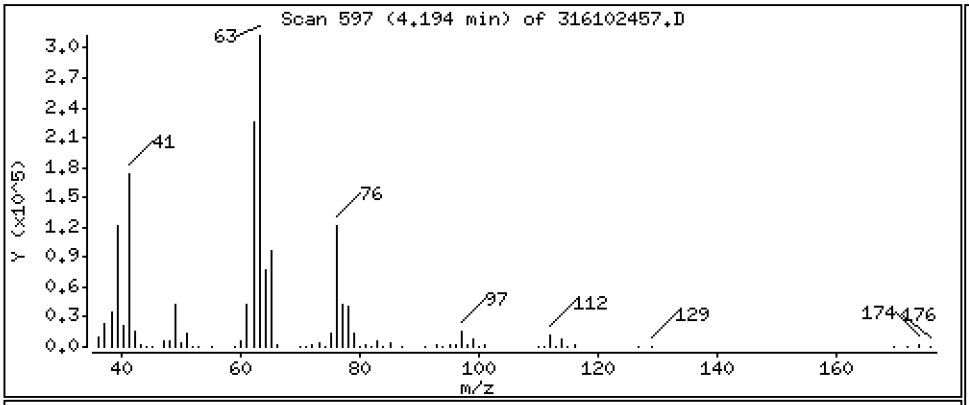
Client ID: Instrument: ms03.i

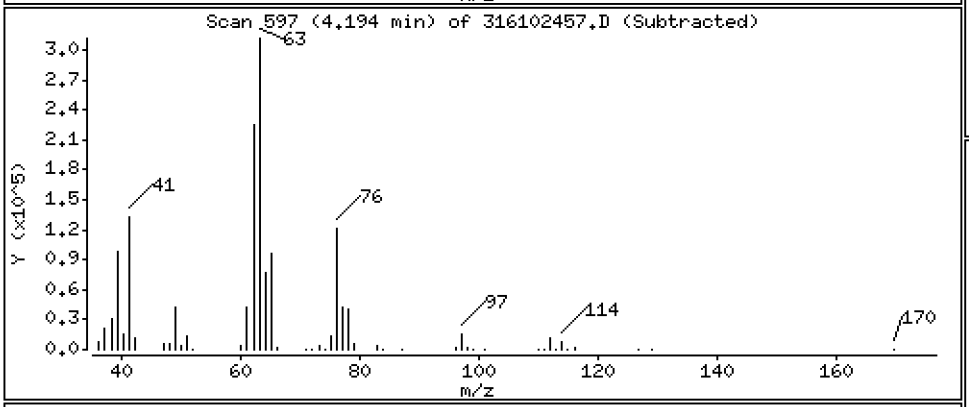
Sample Info: 1237;;1;1;4;;;

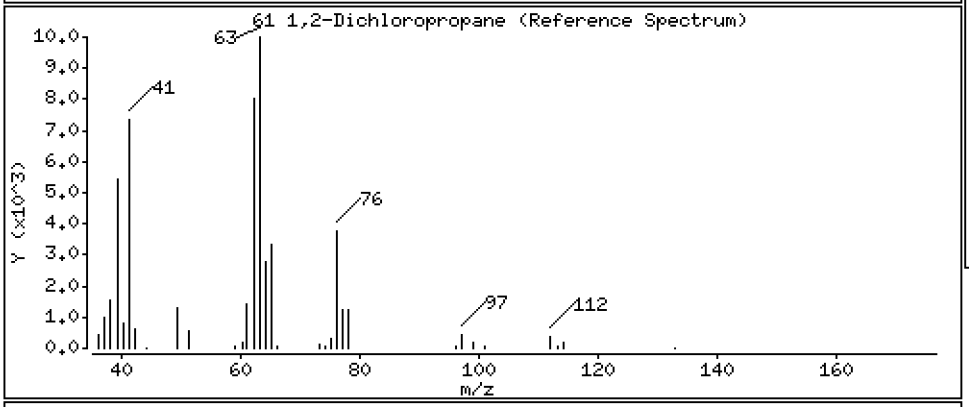
Purge Volume: 5.0 Operator: CJG

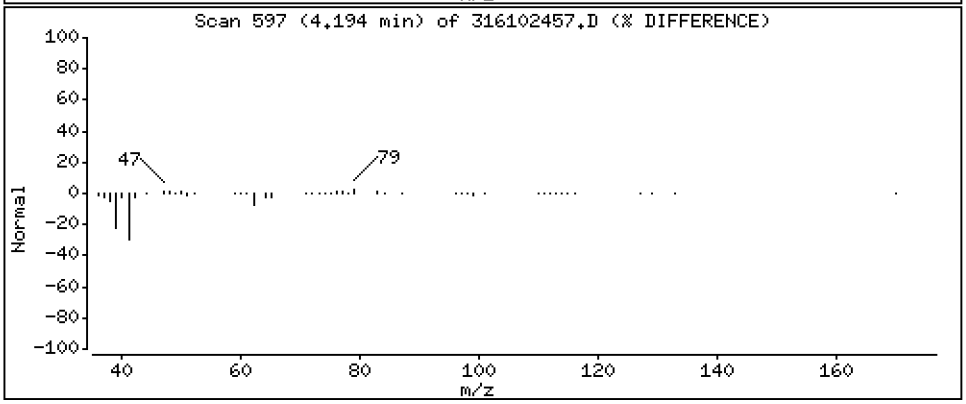
Column phase: DB-VRX Column diameter: 0.25

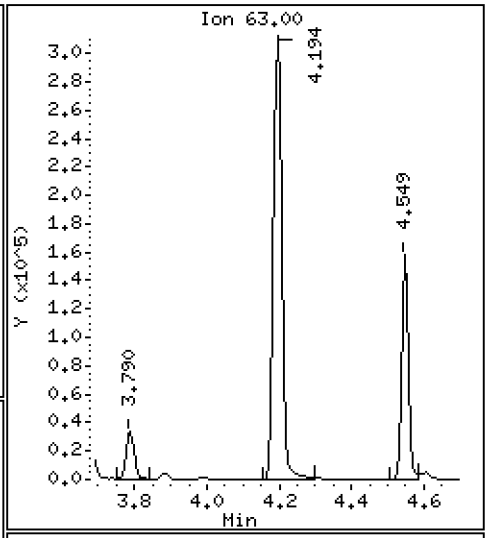
61 1,2-Dichloropropane Concentration: 49.6392 ug/L

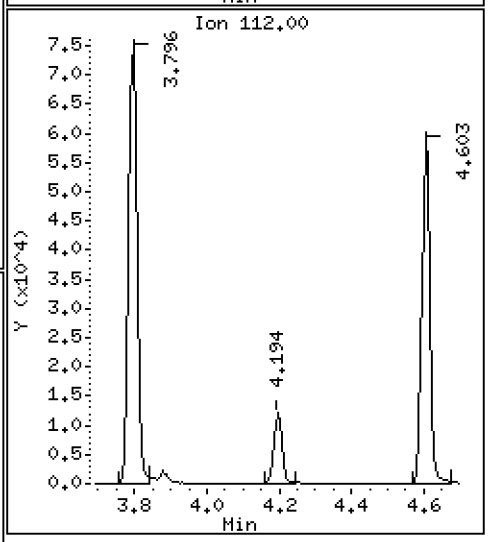












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 67

Date : 25-OCT-2016 00:52

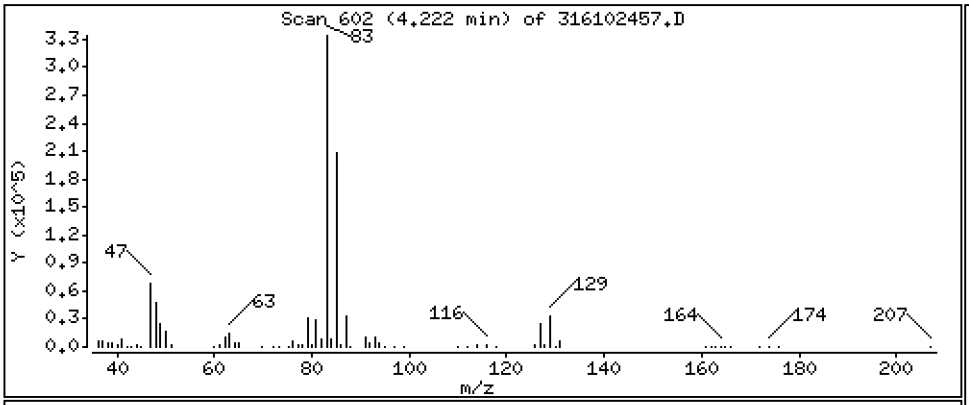
Client ID: Instrument: ms03.i

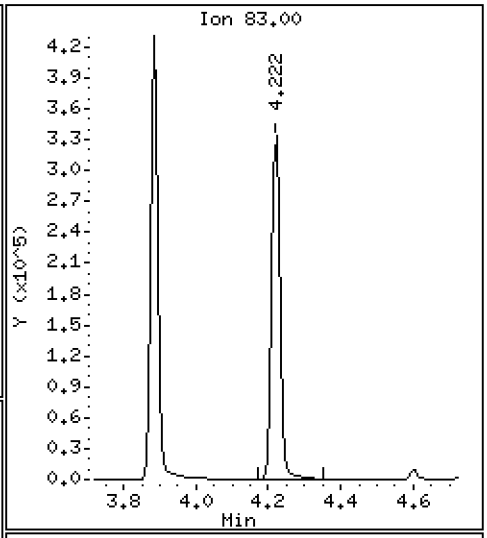
Sample Info: 1237;;1;1;4;;;

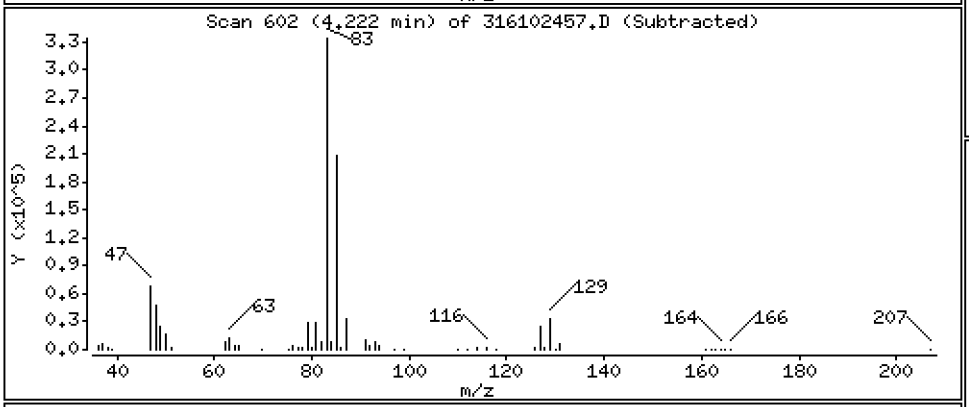
Purge Volume: 5.0 Operator: CJG

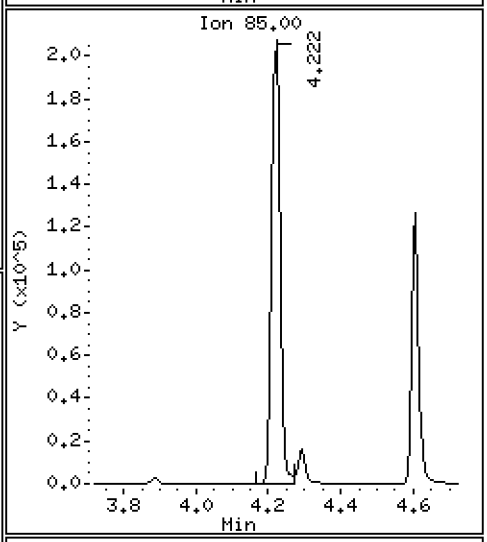
Column phase: DB-VRX Column diameter: 0.25

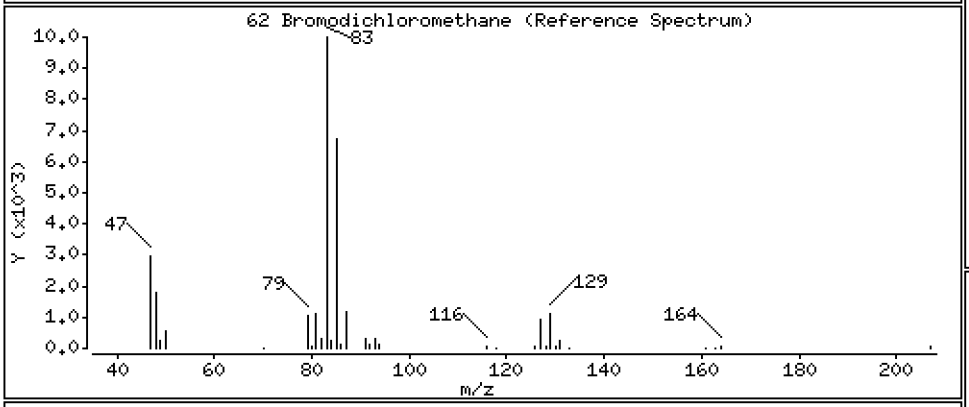
62 Bromodichloromethane Concentration: 49.7277 ug/L

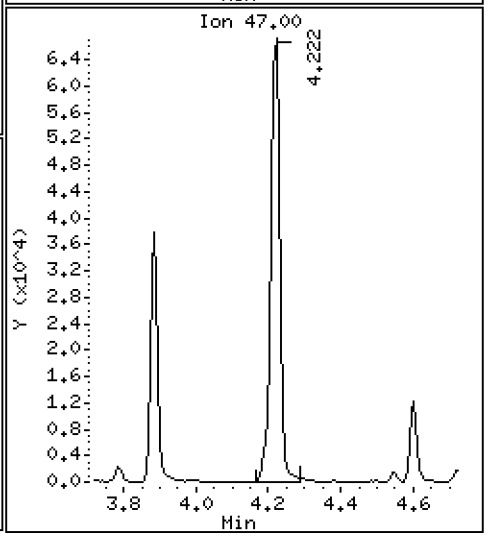


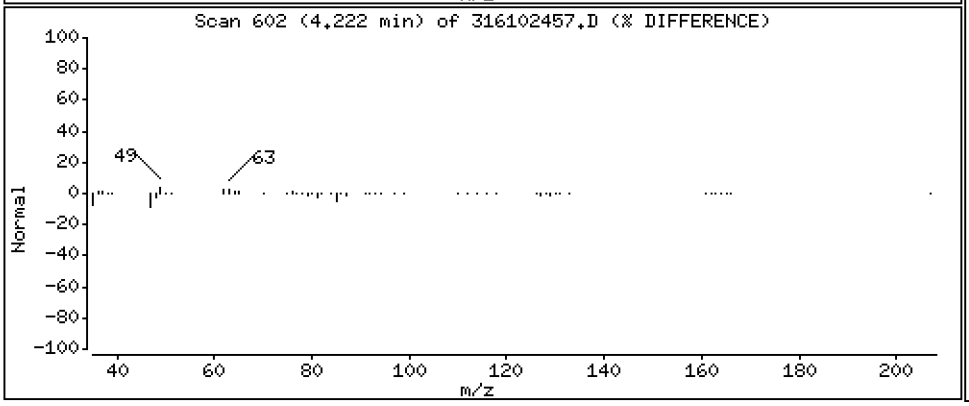












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 68

Date : 25-OCT-2016 00:52

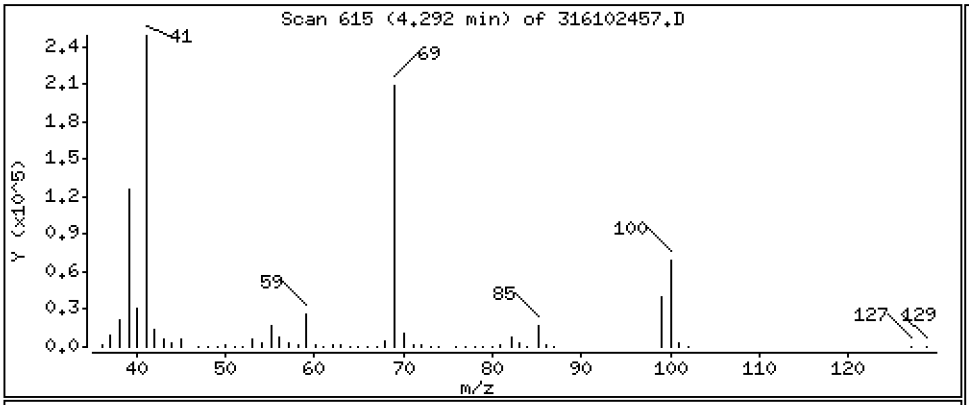
Client ID: Instrument: ms03.i

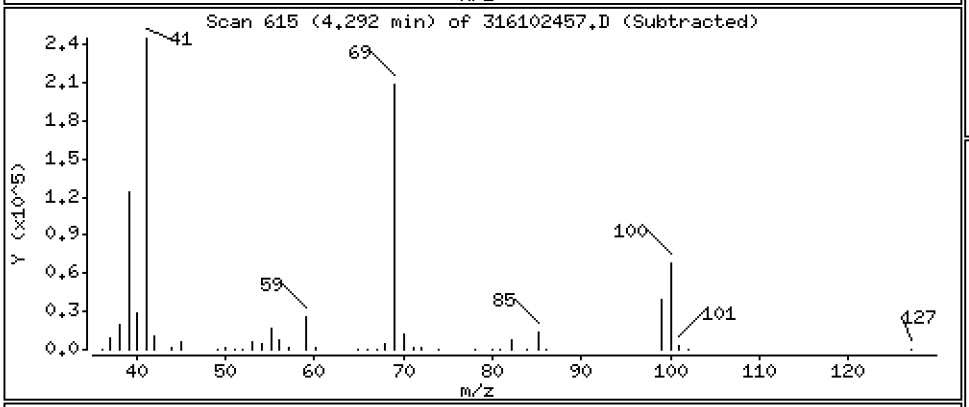
Sample Info: 1237;;1;1;4;;;

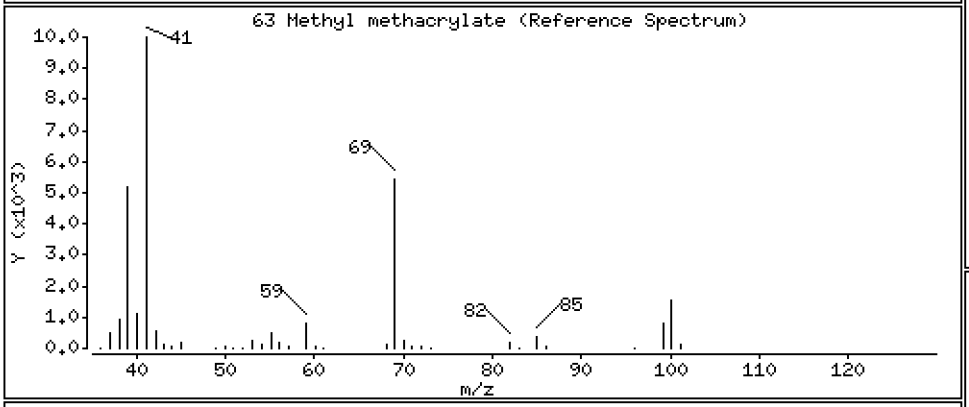
Purge Volume: 5.0 Operator: CJG

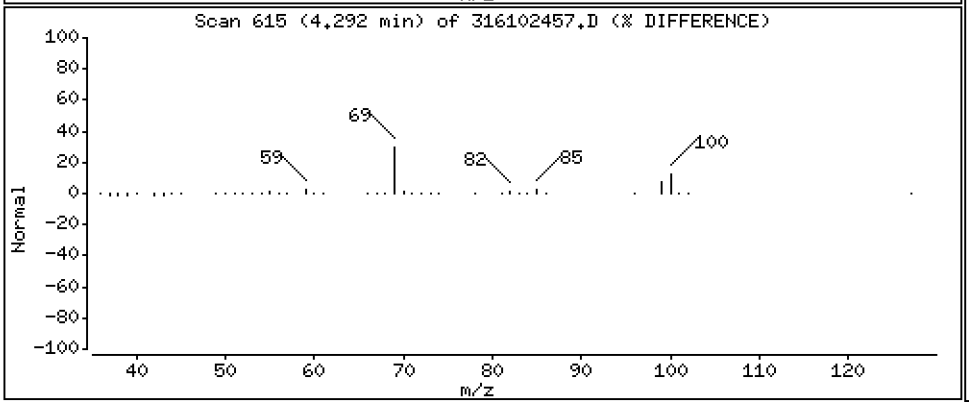
Column phase: DB-VRX Column diameter: 0.25

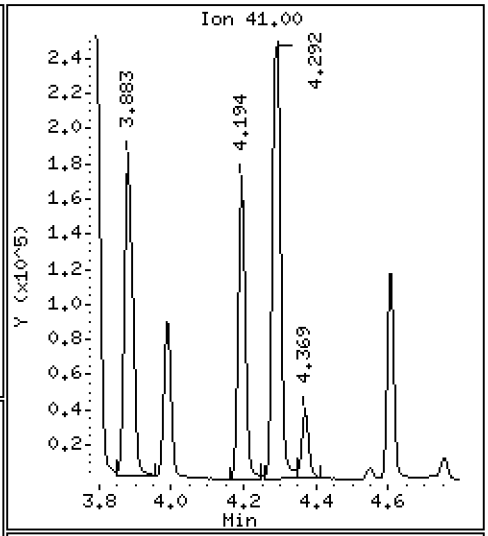
63 Methyl methacrylate Concentration: 49.4509 ug/L

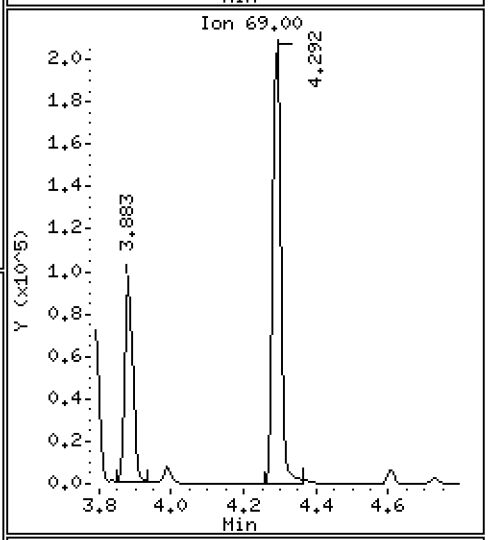


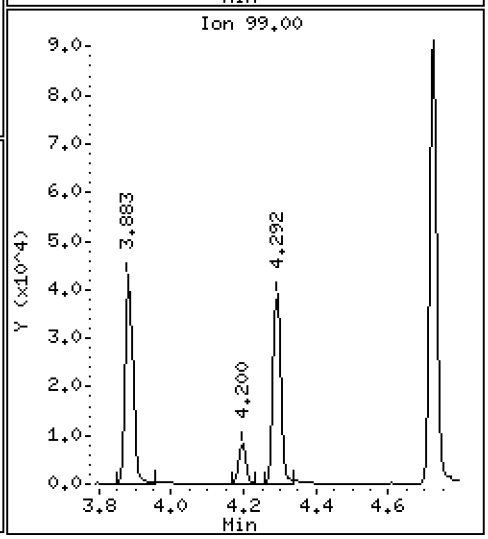












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 69

Date : 25-OCT-2016 00:52

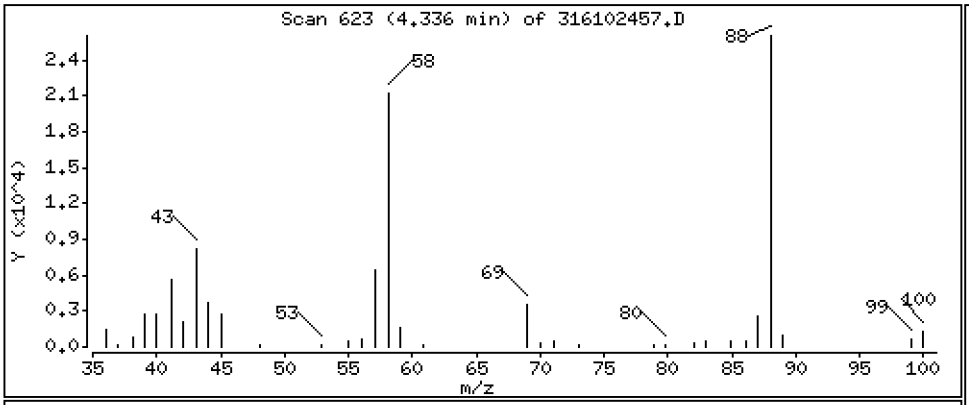
Client ID: Instrument: ms03.i

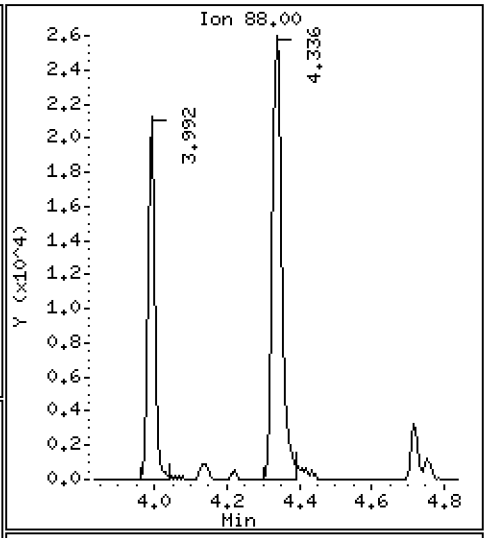
Sample Info: 1237;;1;1;4;;;

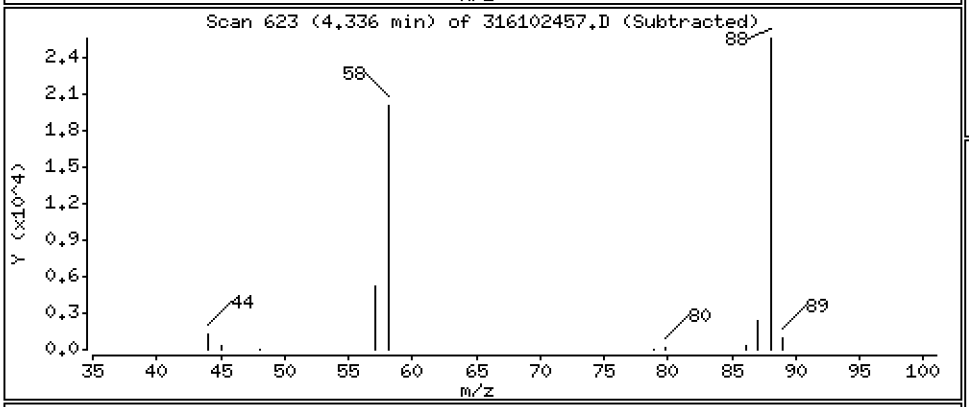
Purge Volume: 5.0 Operator: CJG

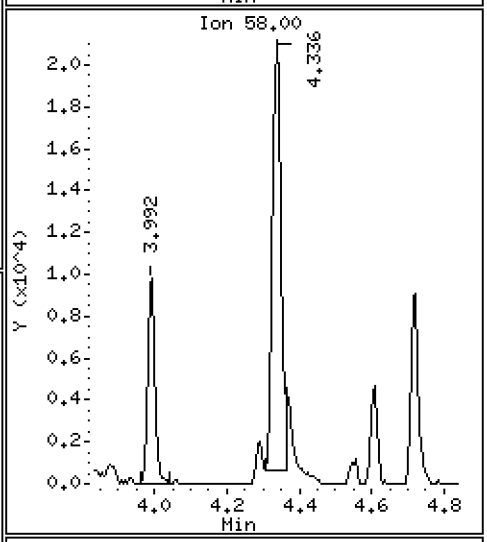
Column phase: DB-VRX Column diameter: 0.25

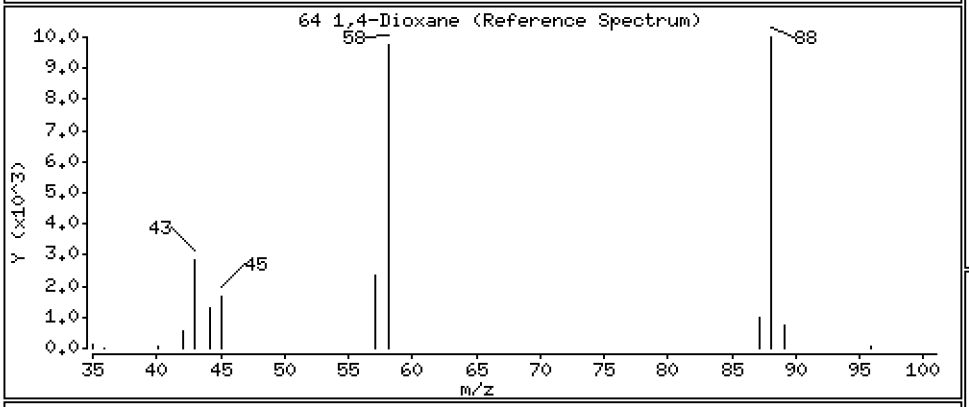
64 1,4-Dioxane Concentration: 1304.81 ug/L

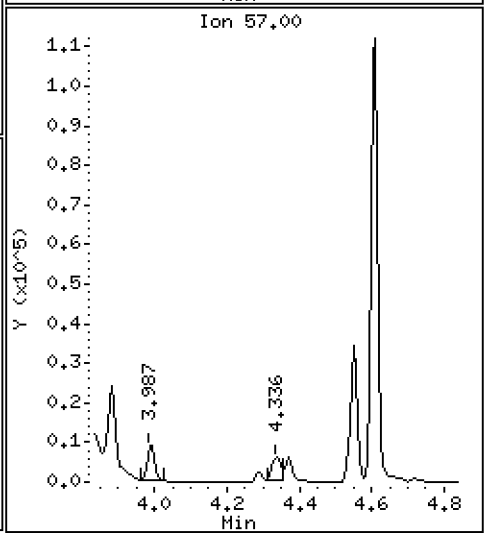


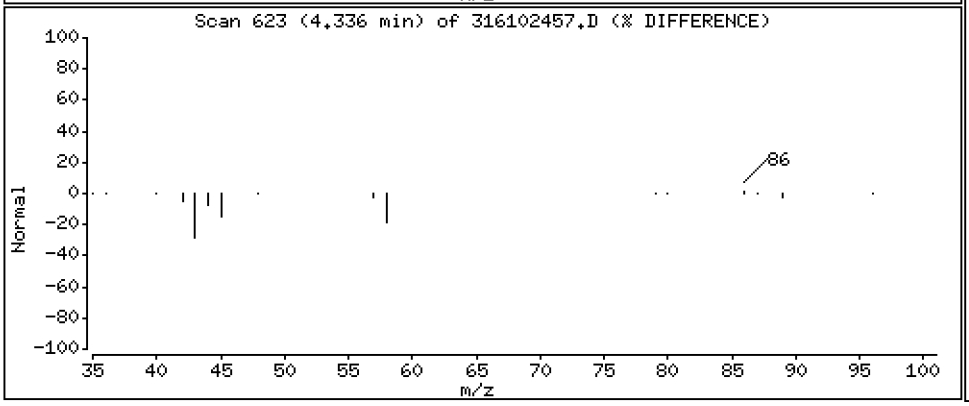












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 70

Date : 25-OCT-2016 00:52

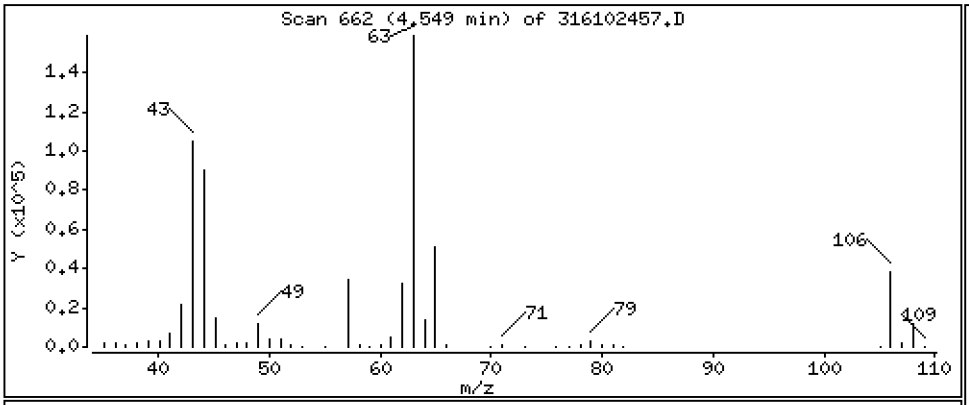
Client ID: Instrument: ms03.i

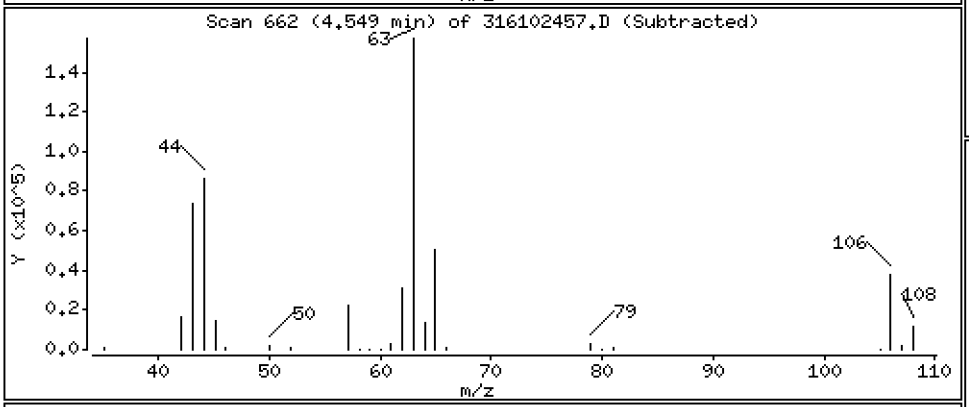
Sample Info: 1237;;1;1;4;;;

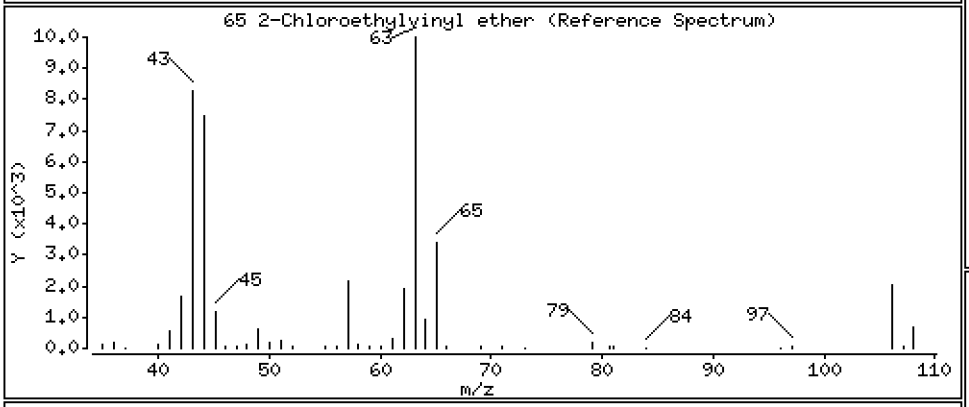
Purge Volume: 5.0 Operator: CJG

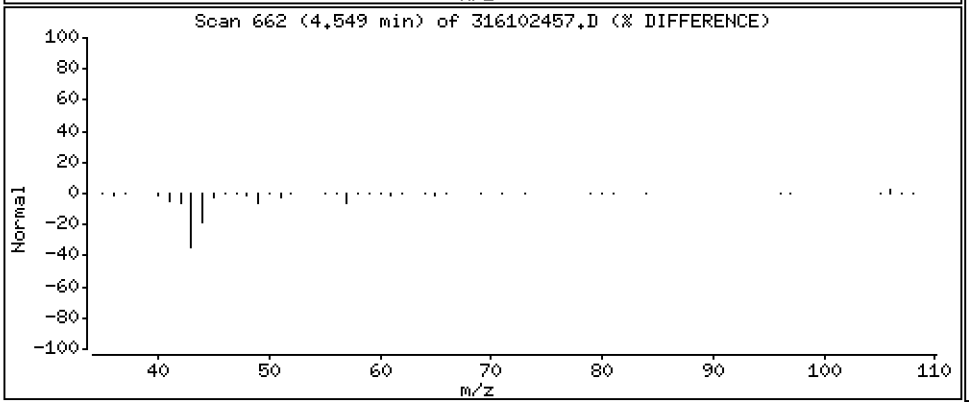
Column phase: DB-VRX Column diameter: 0.25

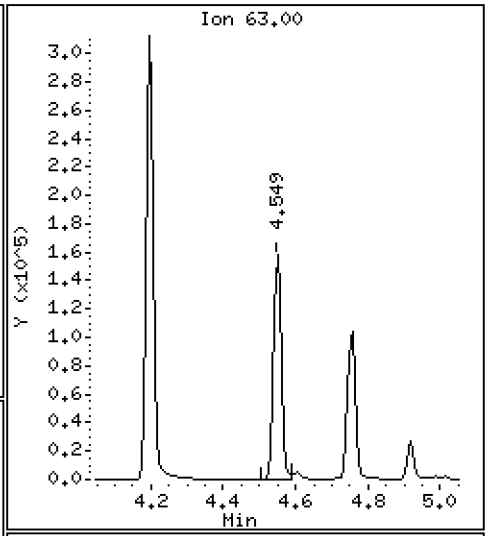
65 2-Chloroethylvinyl ether Concentration: 49.5586 ug/L

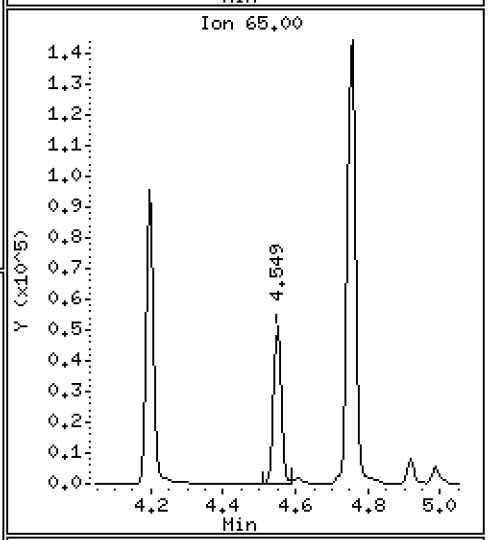


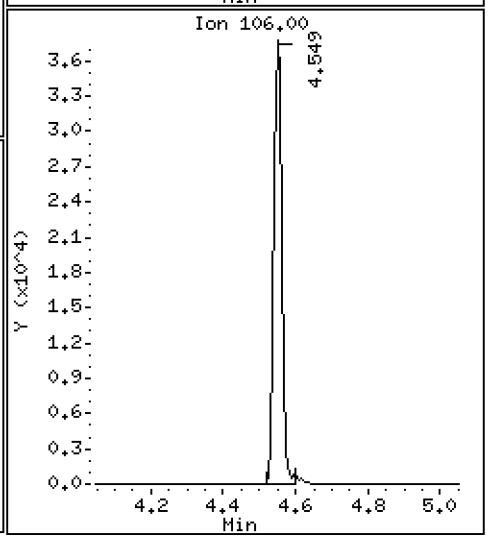












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 71

Date : 25-OCT-2016 00:52

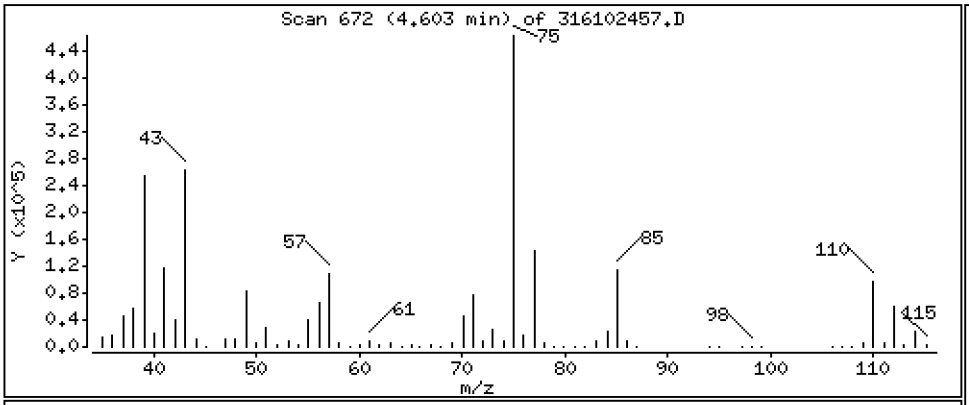
Client ID: Instrument: ms03.i

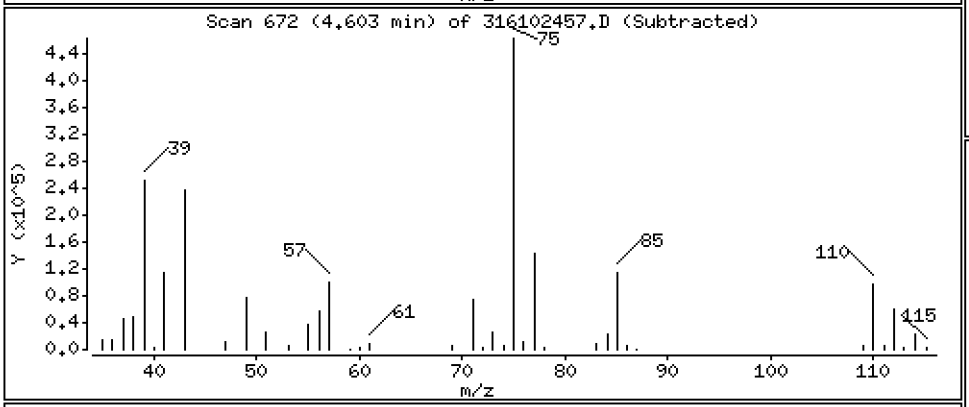
Sample Info: 1237;;1;1;4;;;

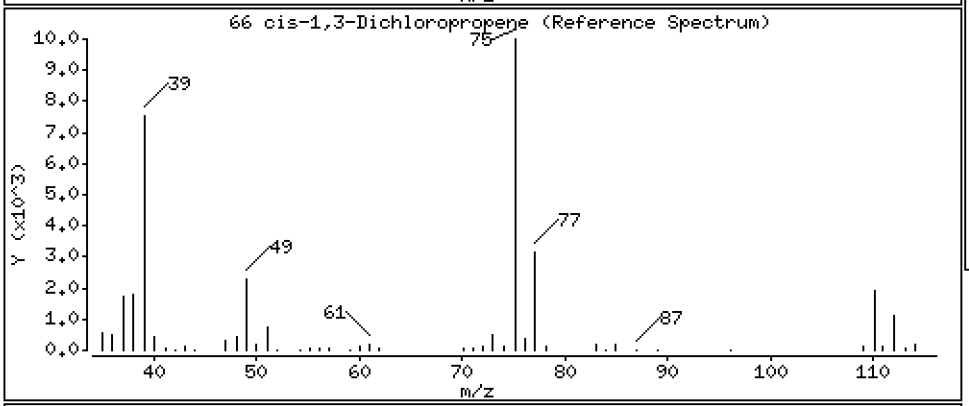
Purge Volume: 5.0 Operator: CJG

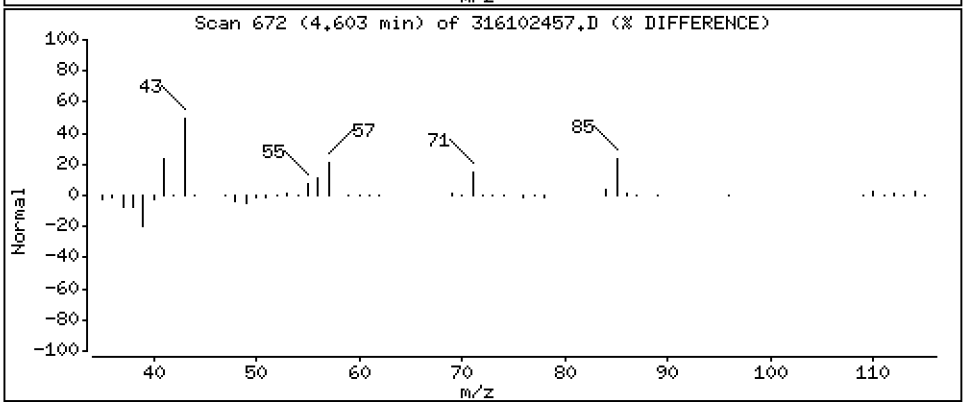
Column phase: DB-VRX Column diameter: 0.25

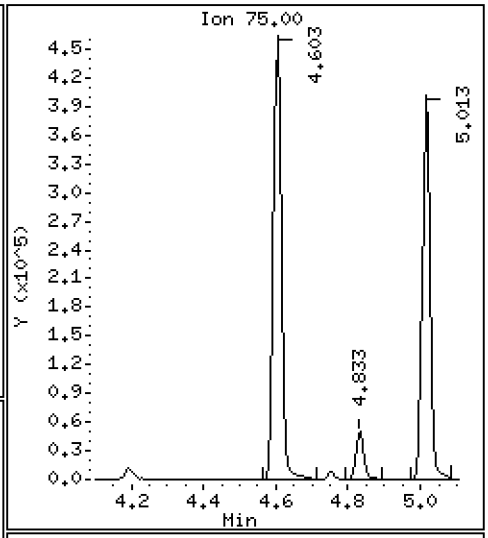
66 cis-1,3-Dichloropropene Concentration: 49.3887 ug/L

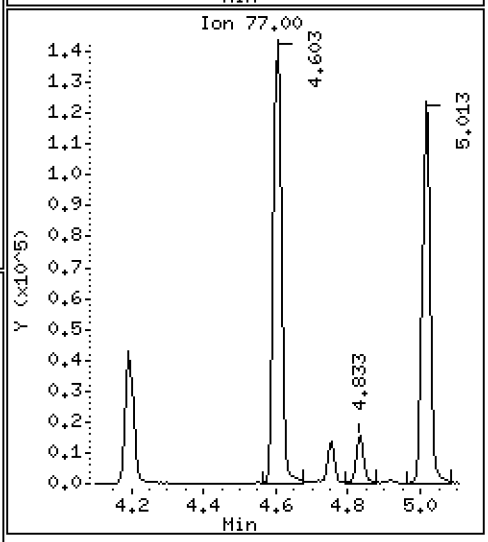












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 72

Date : 25-OCT-2016 00:52

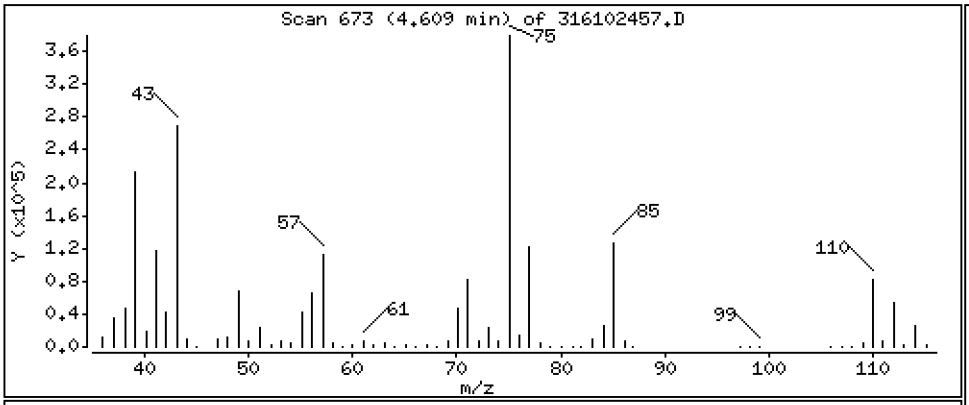
Client ID: Instrument: ms03.i

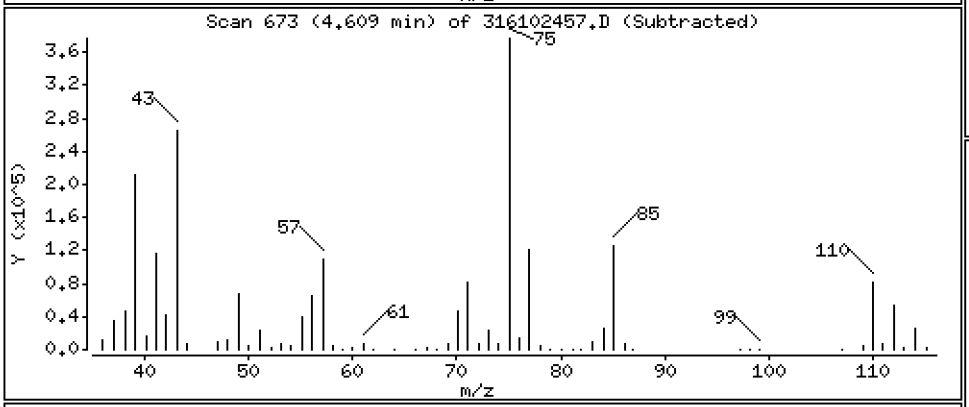
Sample Info: 1237;;1;1;4;;;

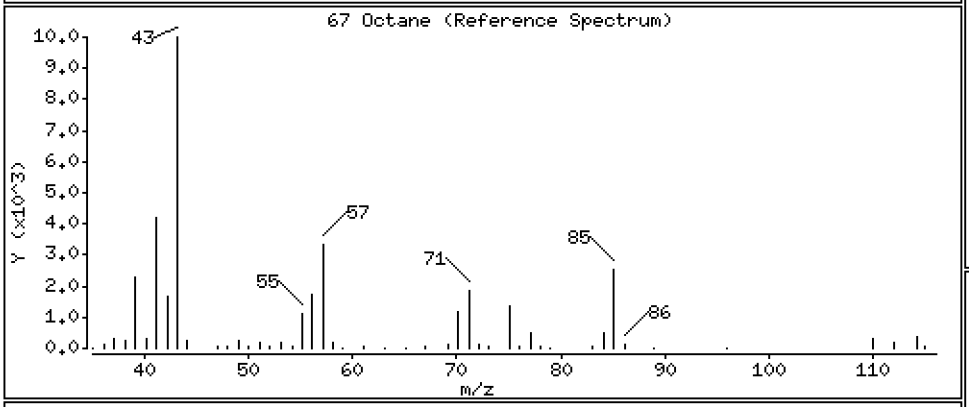
Purge Volume: 5.0 Operator: CJG

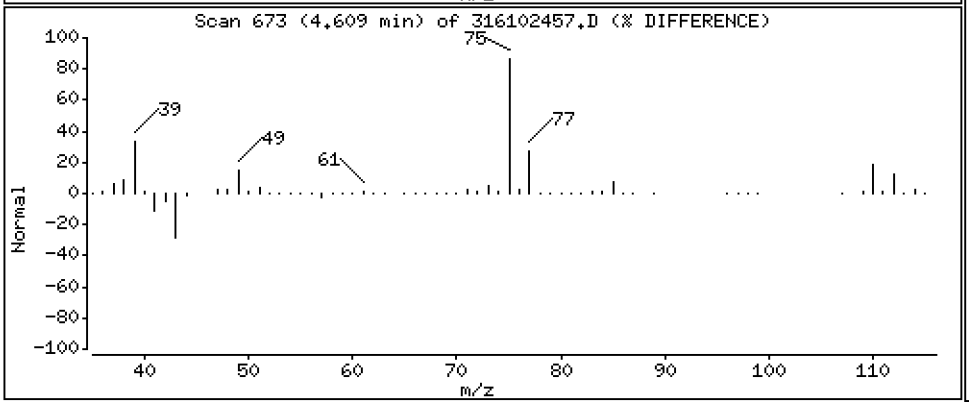
Column phase: DB-VRX Column diameter: 0.25

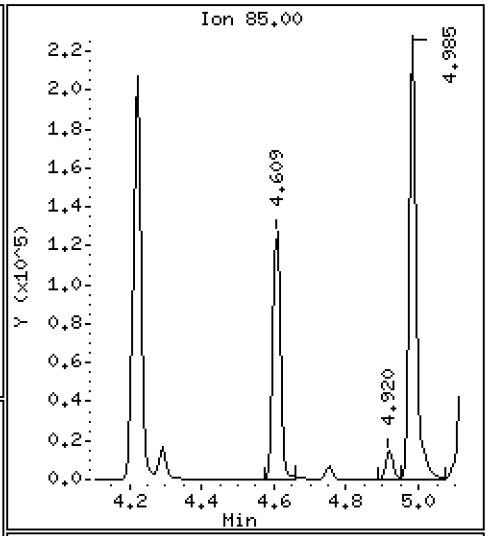
67 Octane Concentration: 46.7771 ug/L

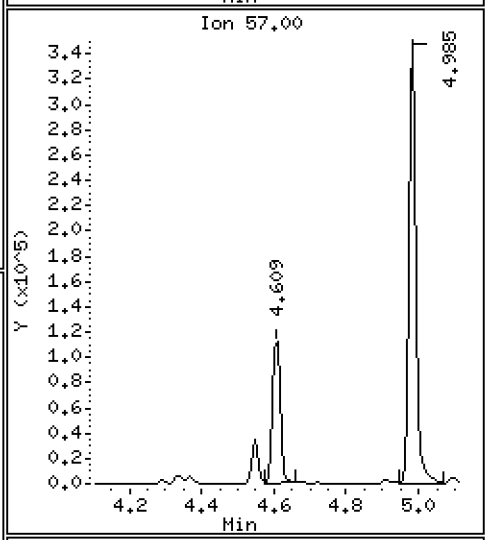


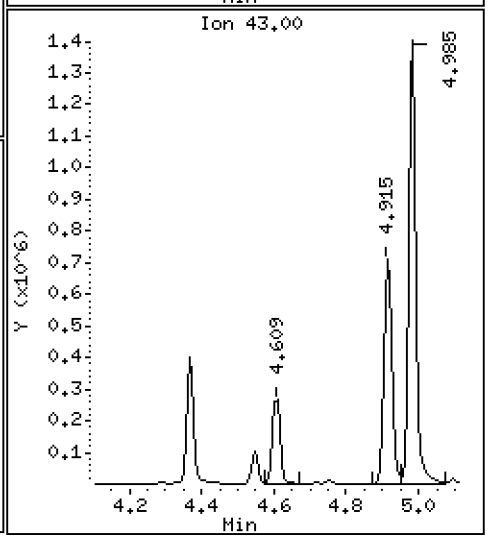












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 73

Date : 25-OCT-2016 00:52

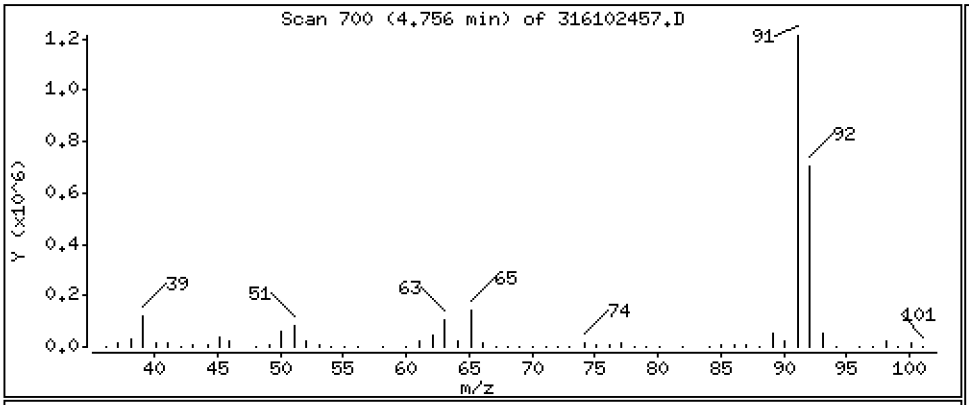
Client ID: Instrument: ms03.i

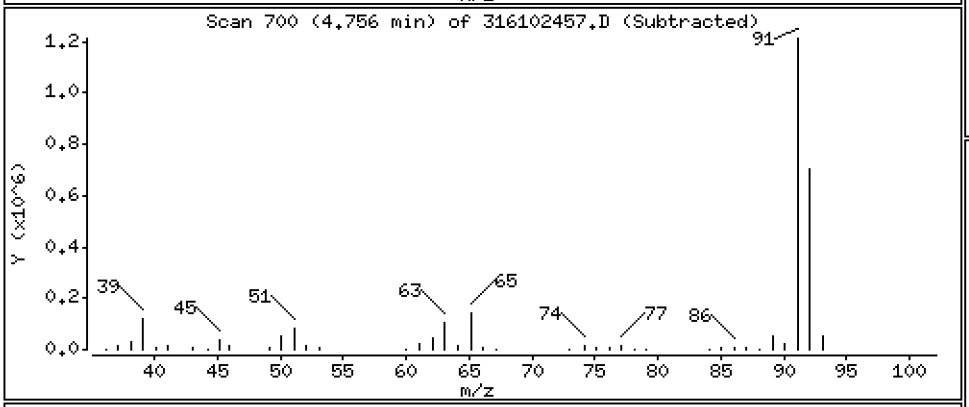
Sample Info: 1237;;1;1;4;;;

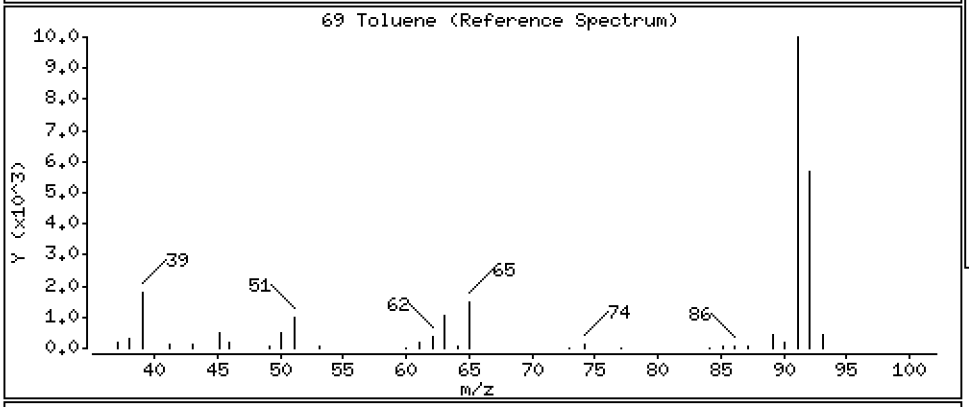
Purge Volume: 5.0 Operator: CJG

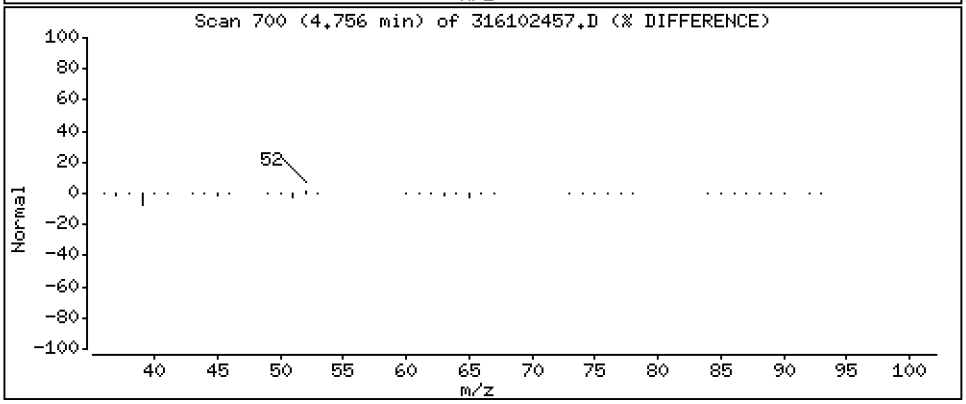
Column phase: DB-VRX Column diameter: 0.25

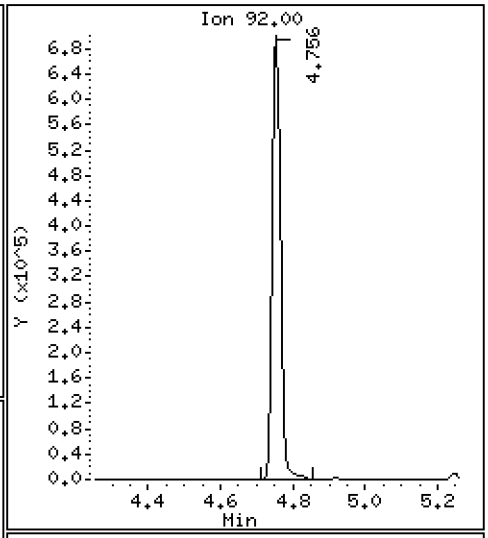
69 Toluene Concentration: 50.2185 ug/L

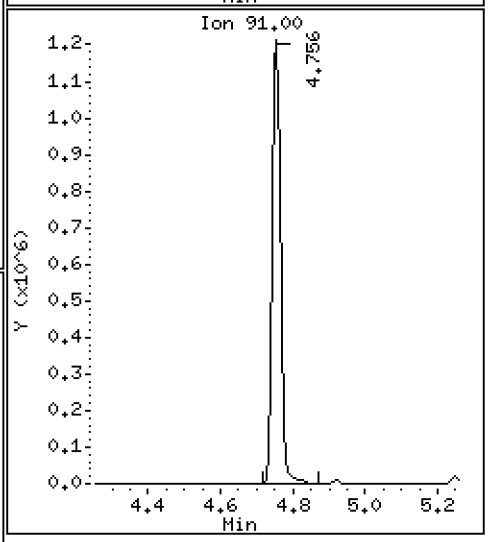












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 74

Date : 25-OCT-2016 00:52

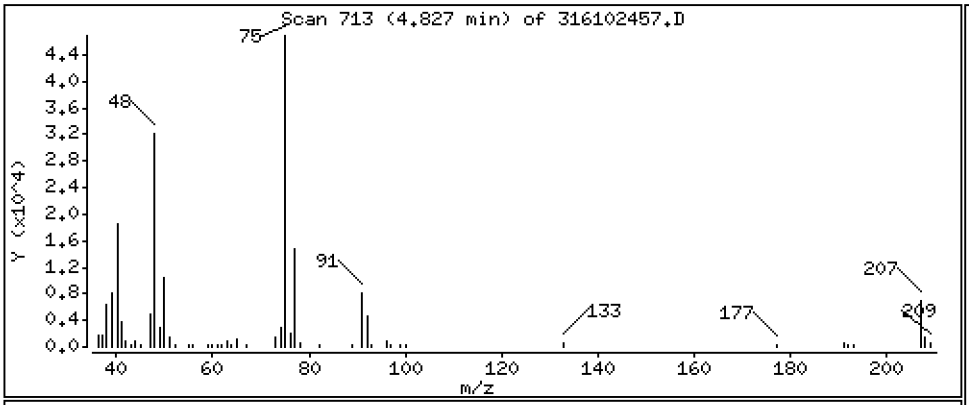
Client ID: Instrument: ms03.i

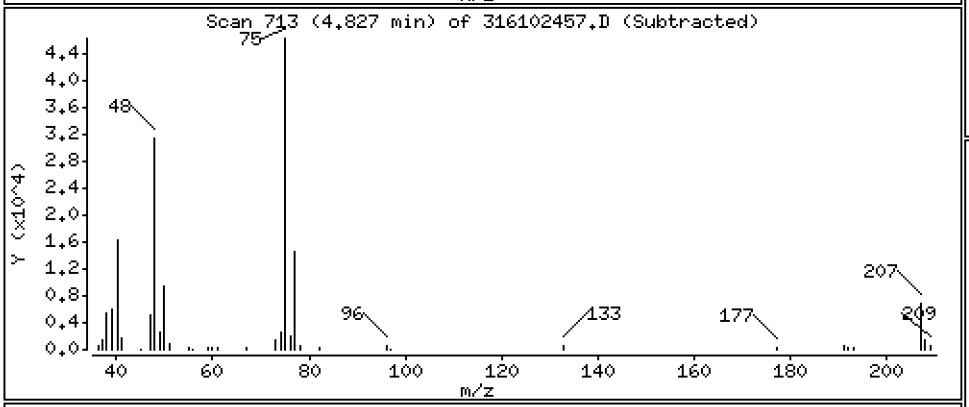
Sample Info: 1237;;1;1;4;;;

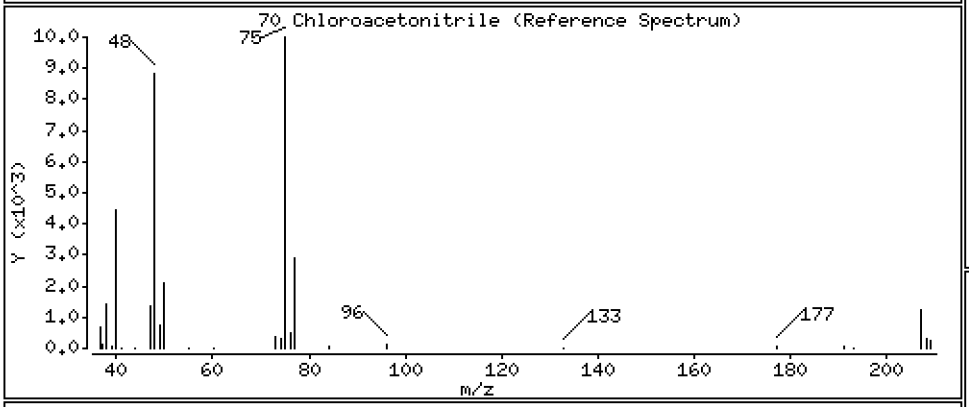
Purge Volume: 5.0 Operator: CJG

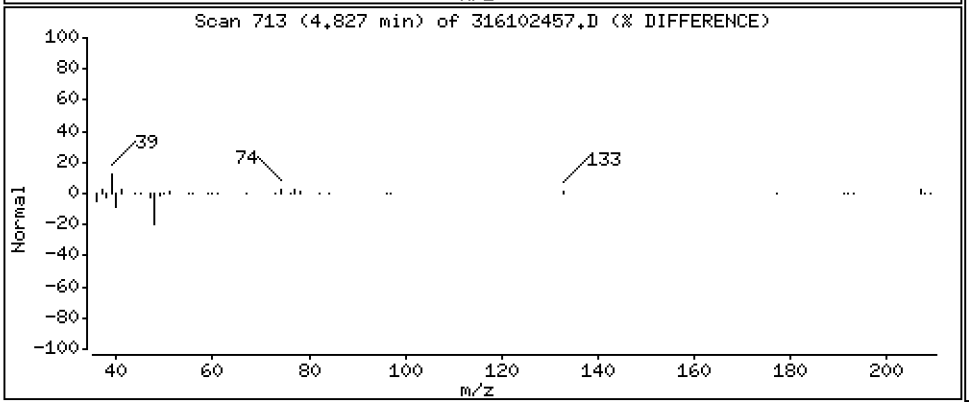
Column phase: DB-VRX Column diameter: 0.25

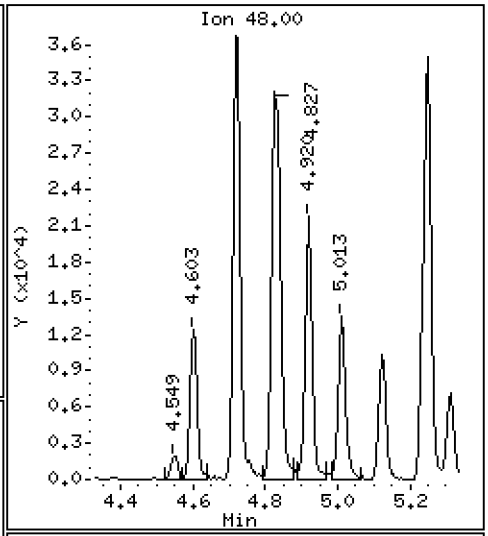
70 Chloroacetonitrile Concentration: 256.720 ug/L

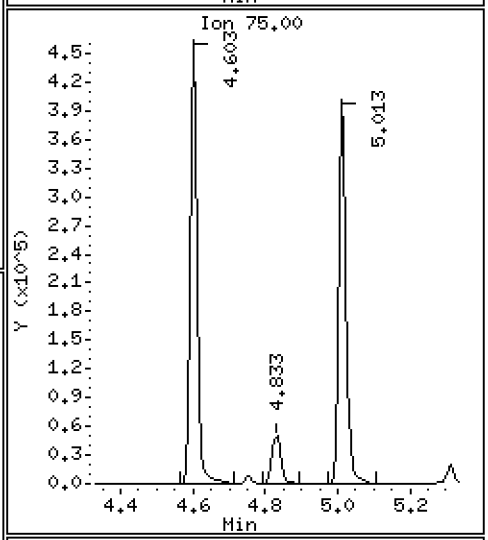


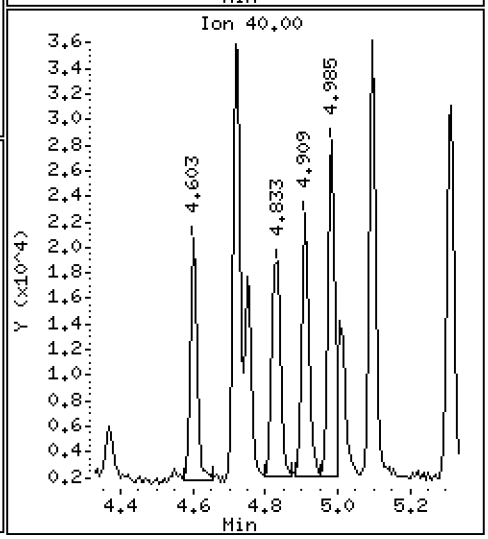












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 75

Date : 25-OCT-2016 00:52

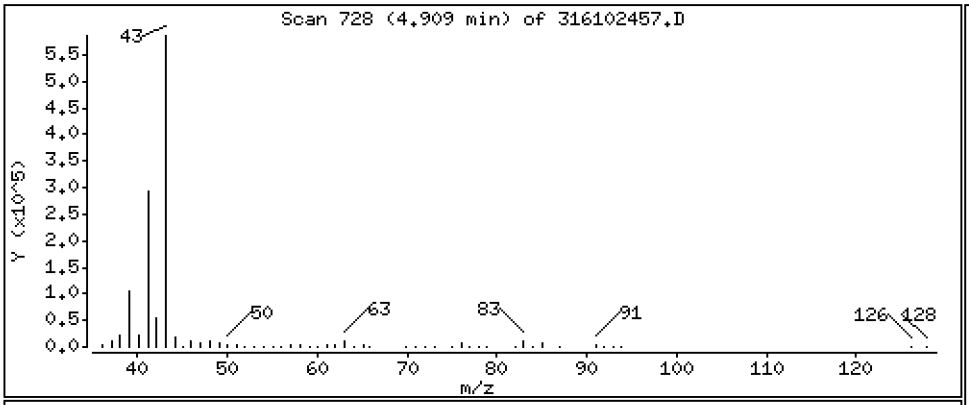
Client ID: Instrument: ms03.i

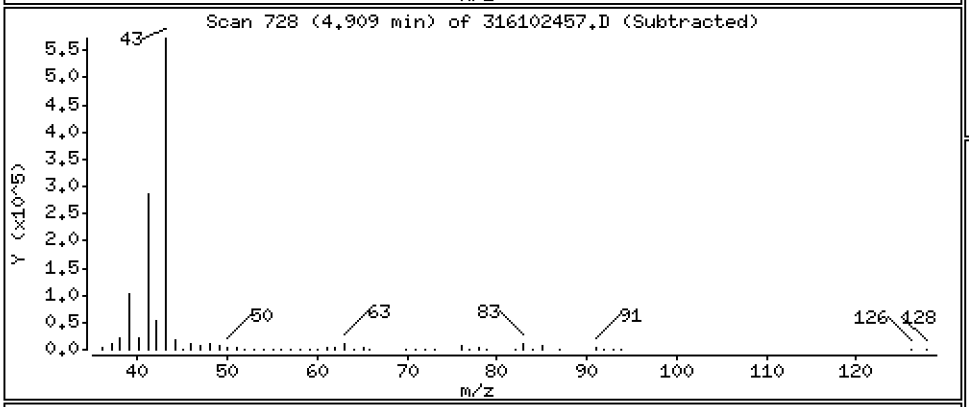
Sample Info: 1237;;1;1;4;;;

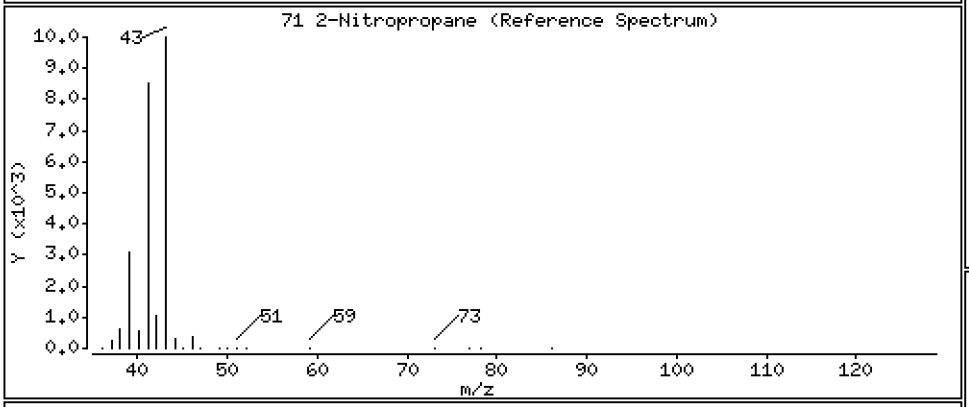
Purge Volume: 5.0 Operator: CJG

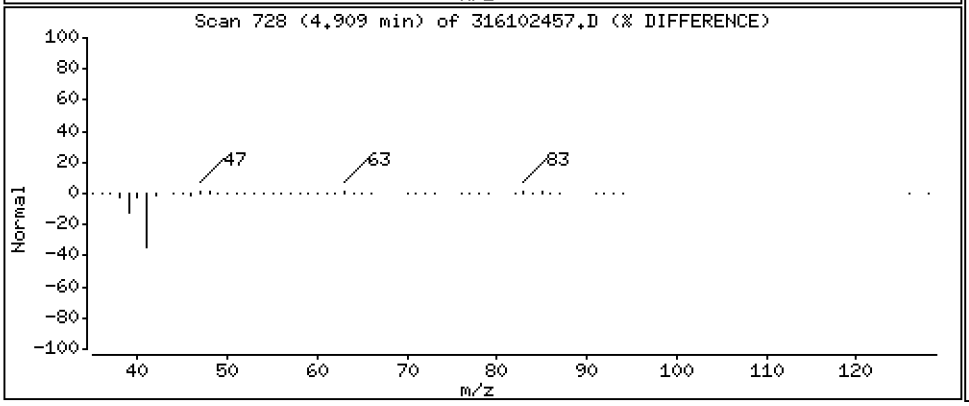
Column phase: DB-VRX Column diameter: 0.25

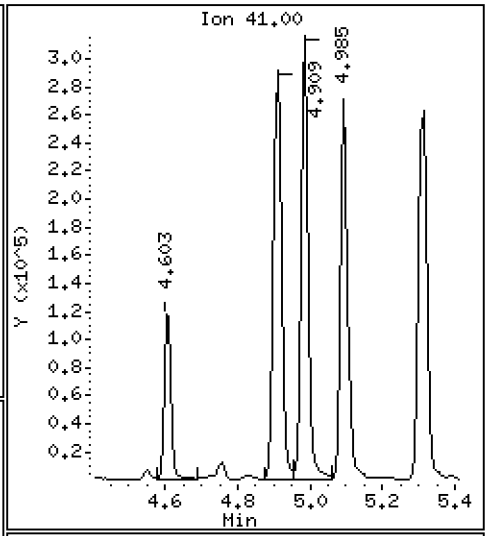
71 2-Nitropropane Concentration: 257.525 ug/L

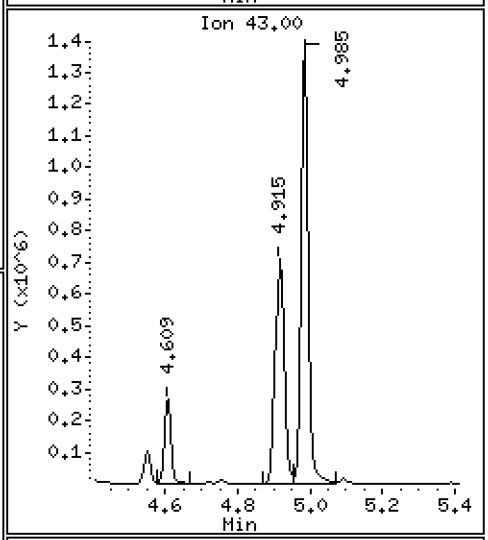


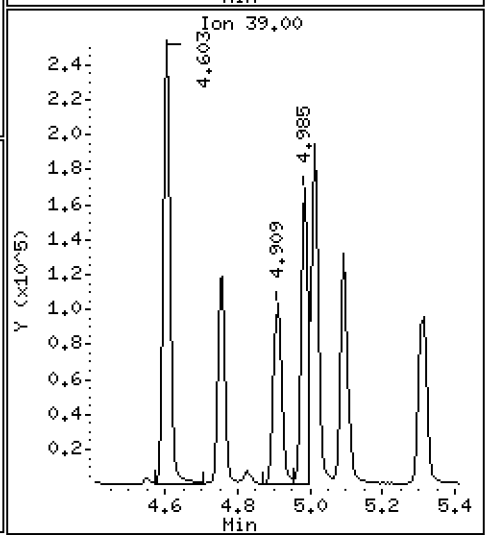












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 76

Date : 25-OCT-2016 00:52

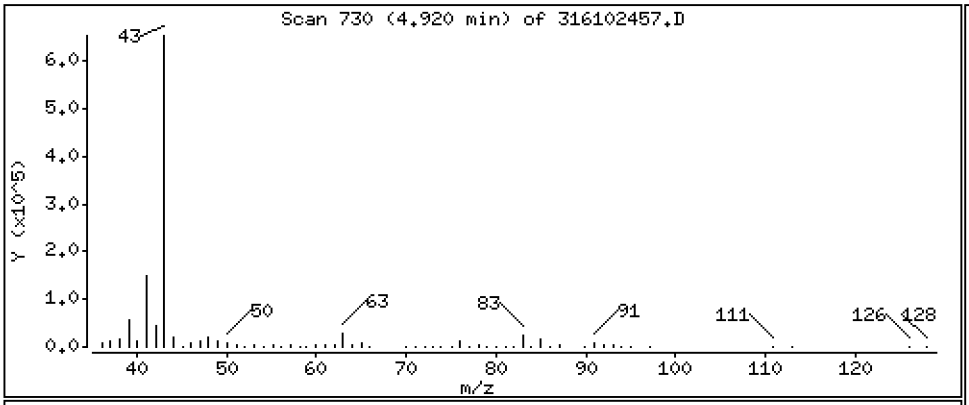
Client ID: Instrument: ms03.i

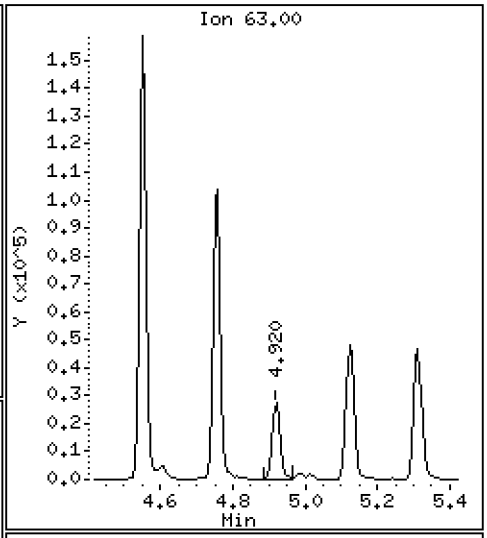
Sample Info: 1237;;1;1;4;;;

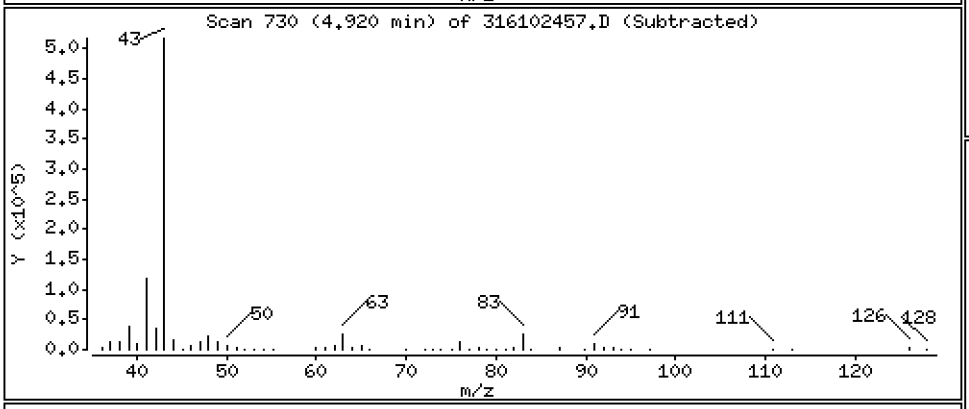
Purge Volume: 5.0 Operator: CJG

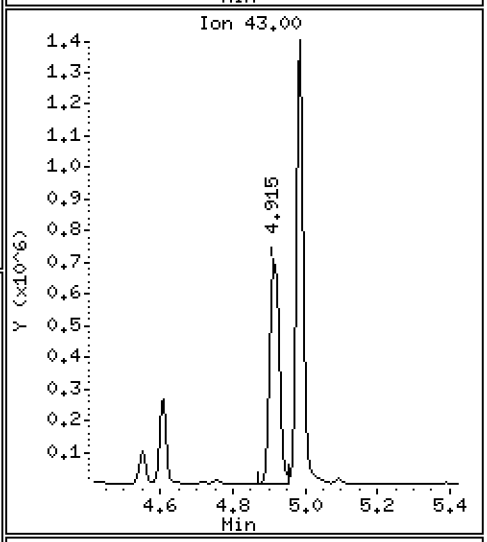
Column phase: DB-VRX Column diameter: 0.25

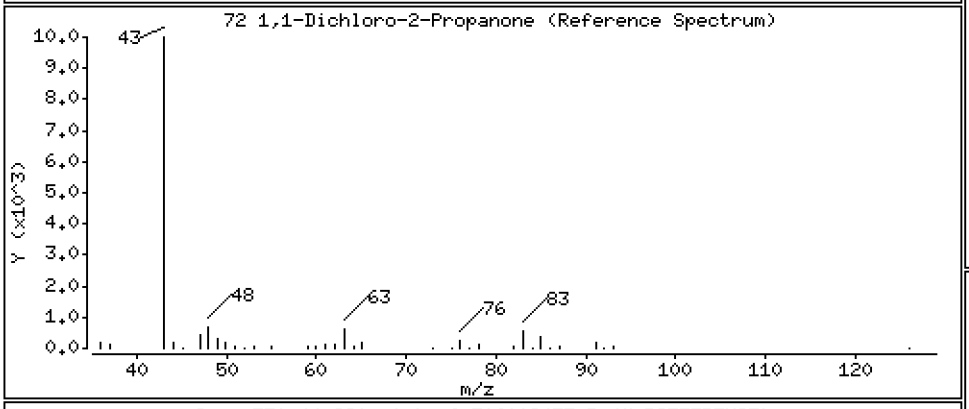
72 1,1-Dichloro-2-Propanone Concentration: 257.360 ug/L

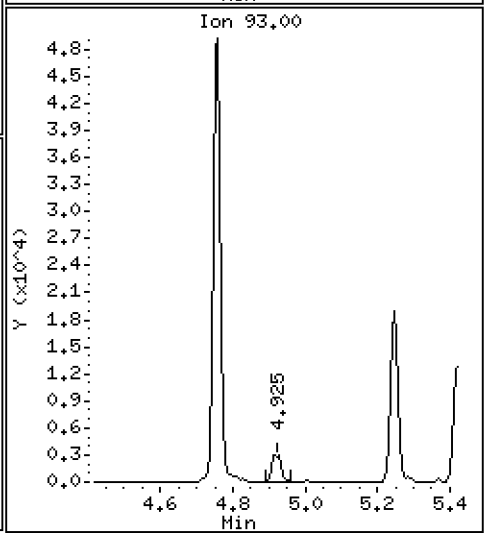


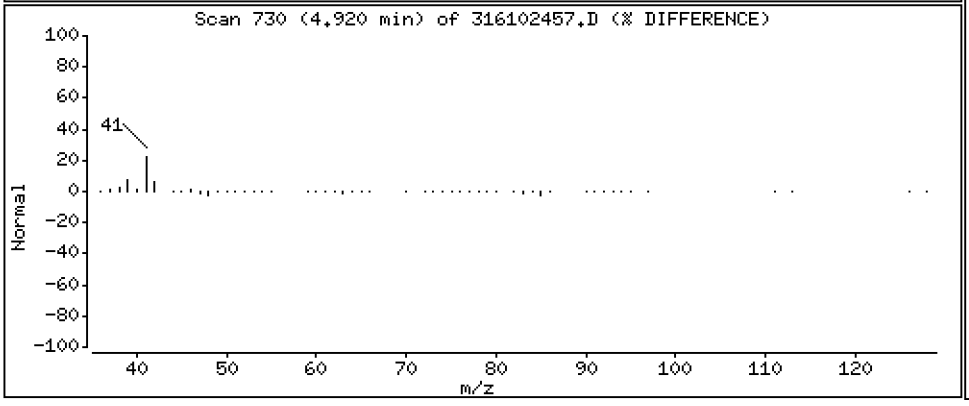












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 77

Date : 25-OCT-2016 00:52

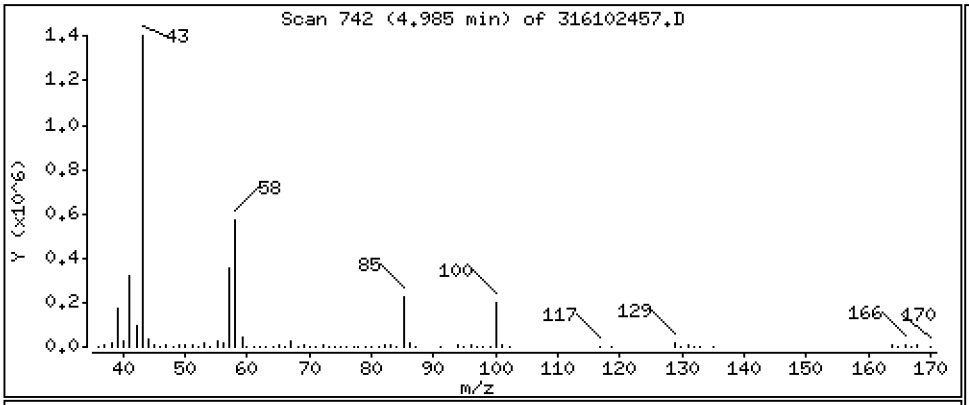
Client ID: Instrument: ms03.i

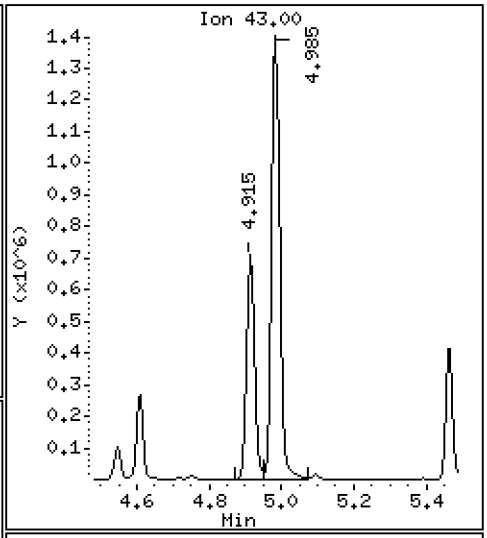
Sample Info: 1237;;1;1;4;;;

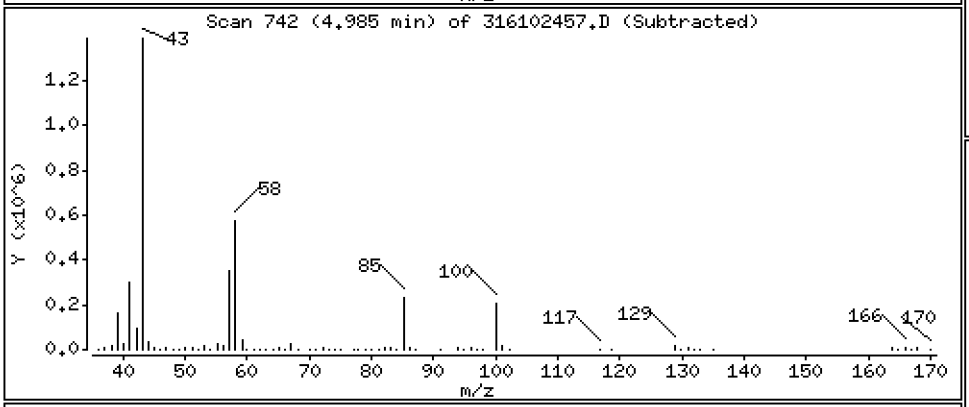
Purge Volume: 5.0 Operator: CJG

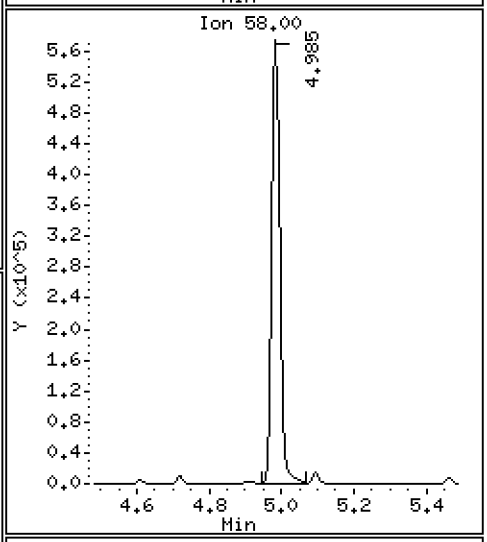
Column phase: DB-VRX Column diameter: 0.25

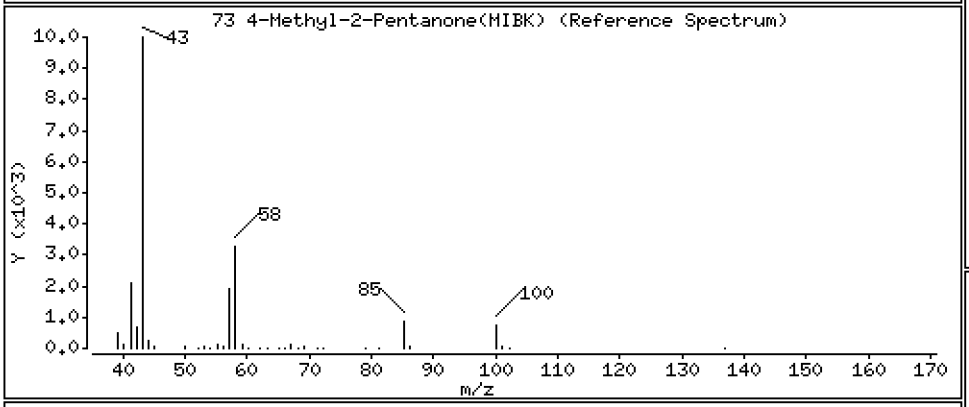
73 4-Methyl-2-Pentanone(MIBK) Concentration: 256.899 ug/L

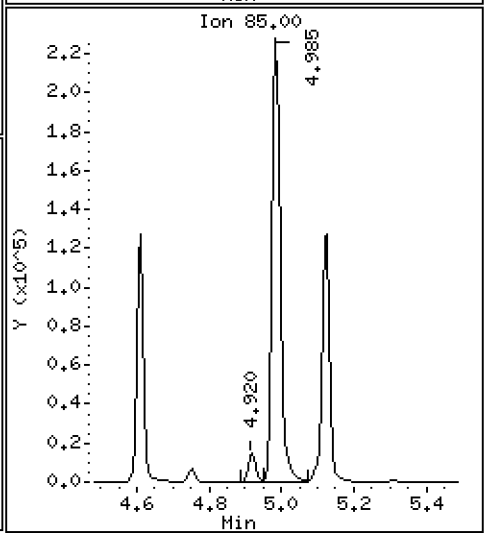


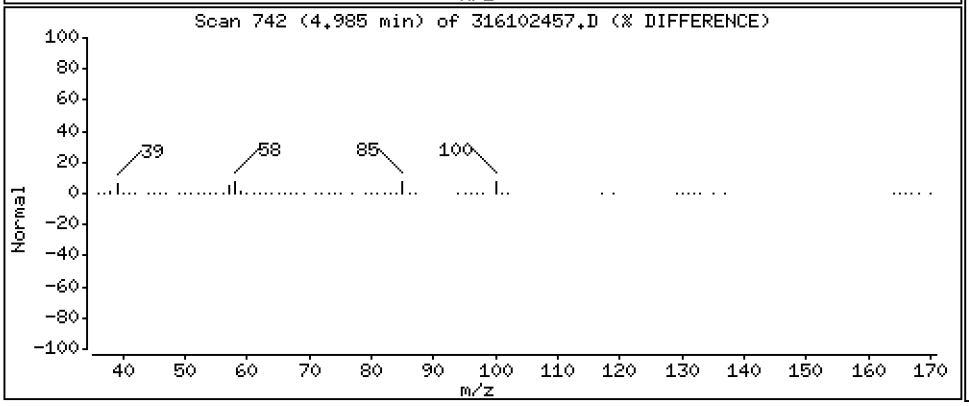












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 78

Date : 25-OCT-2016 00:52

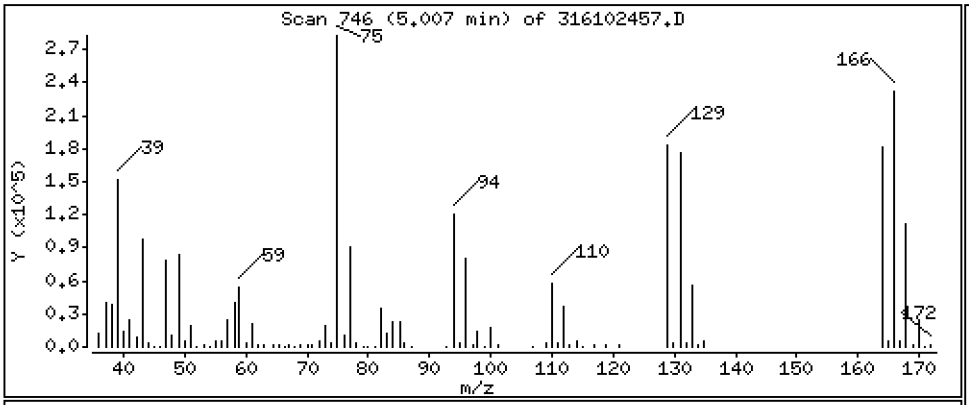
Client ID: Instrument: ms03.i

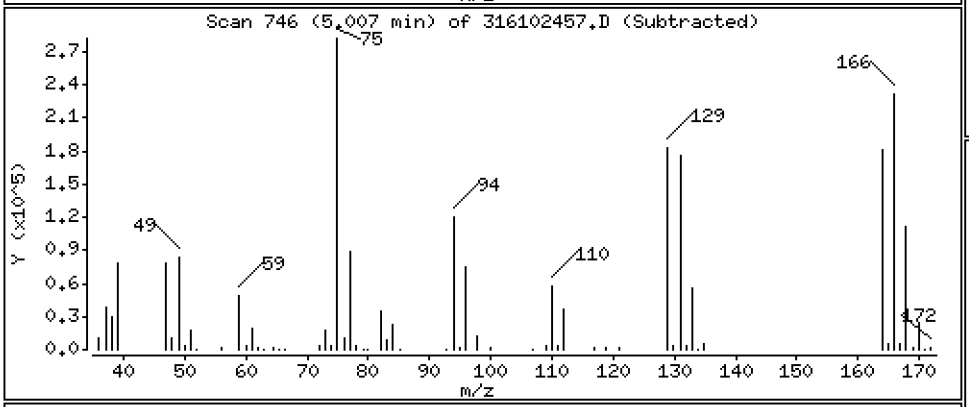
Sample Info: 1237;;1;1;4;;;

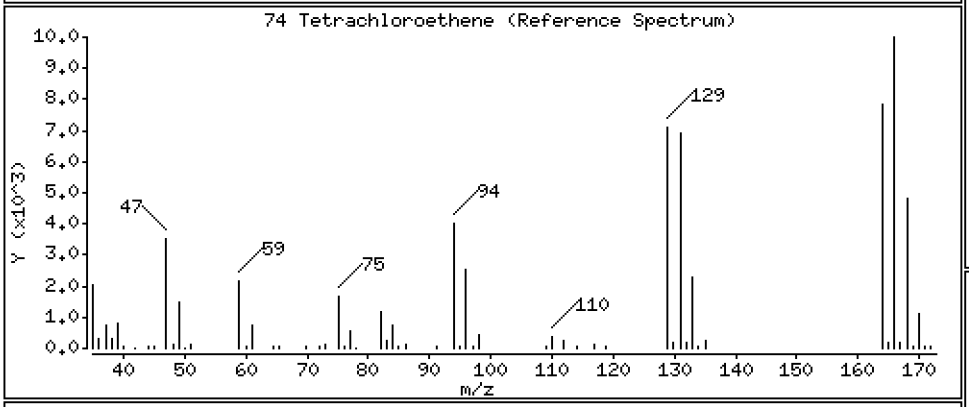
Purge Volume: 5.0 Operator: CJG

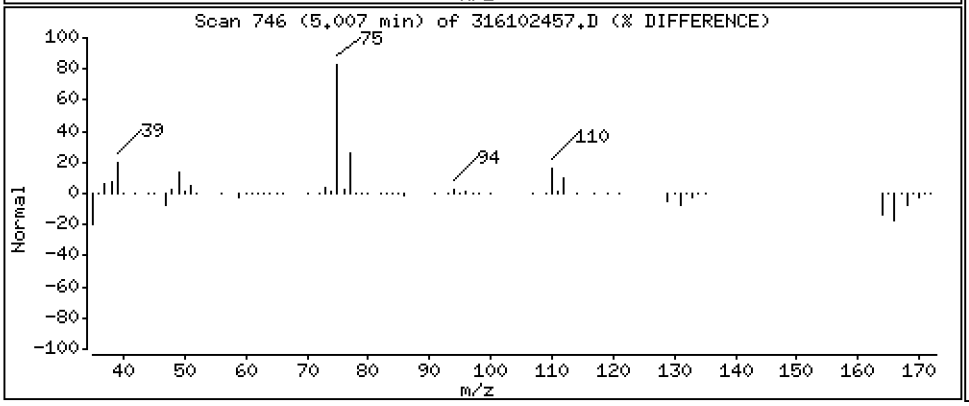
Column phase: DB-VRX Column diameter: 0.25

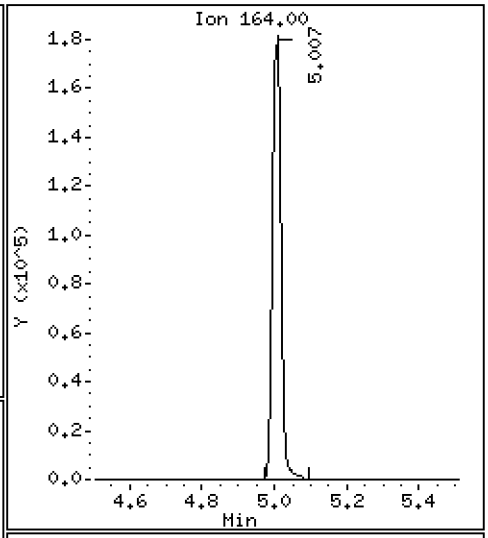
74 Tetrachloroethene Concentration: 50.5599 ug/L

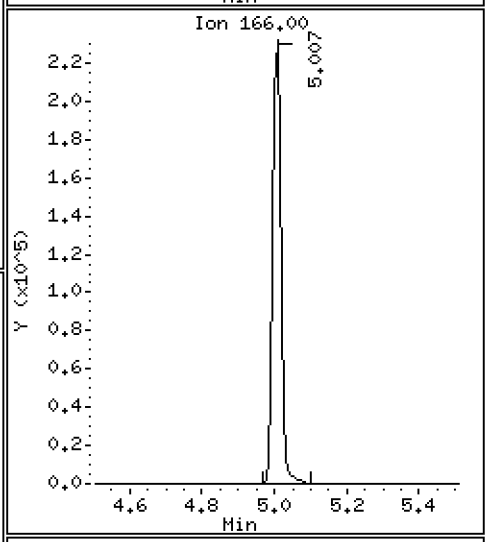


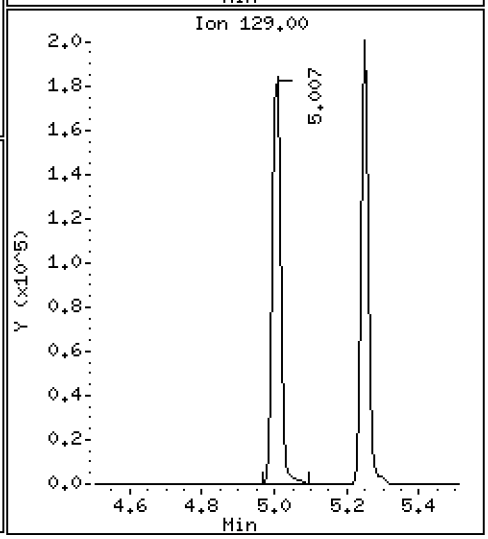












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 79

Date : 25-OCT-2016 00:52

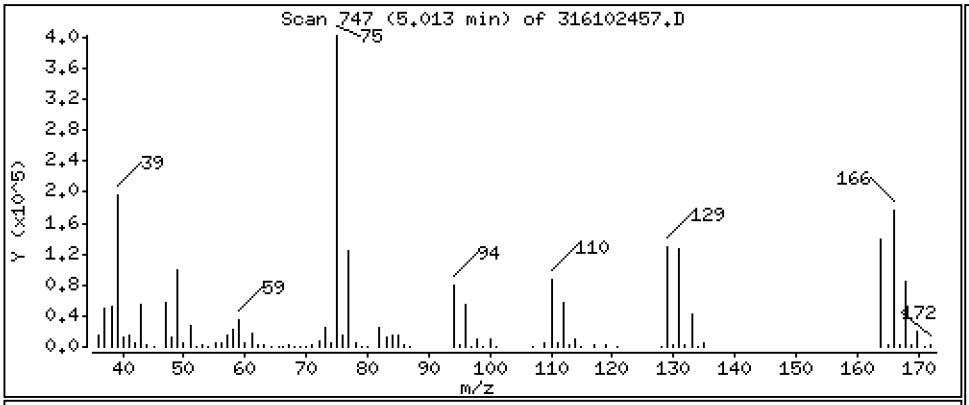
Client ID: Instrument: ms03.i

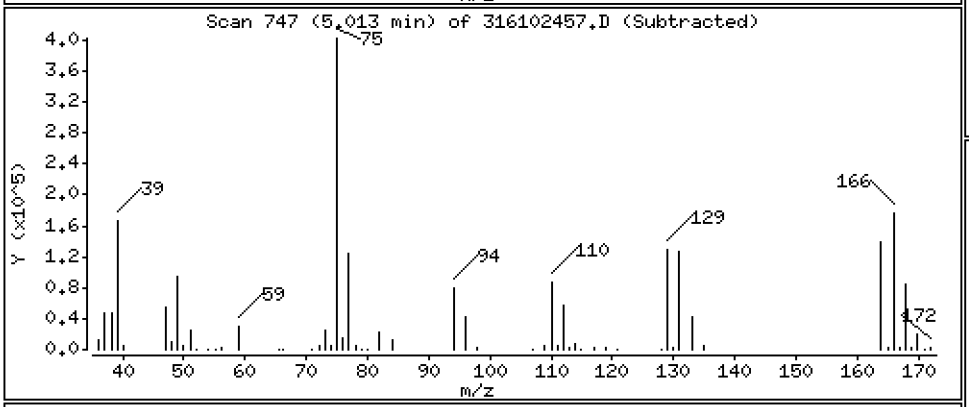
Sample Info: 1237;;1;1;4;;;

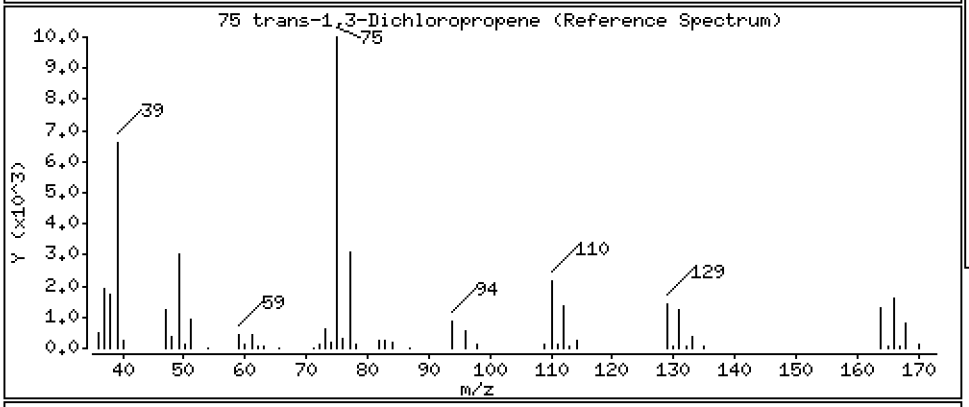
Purge Volume: 5.0 Operator: CJG

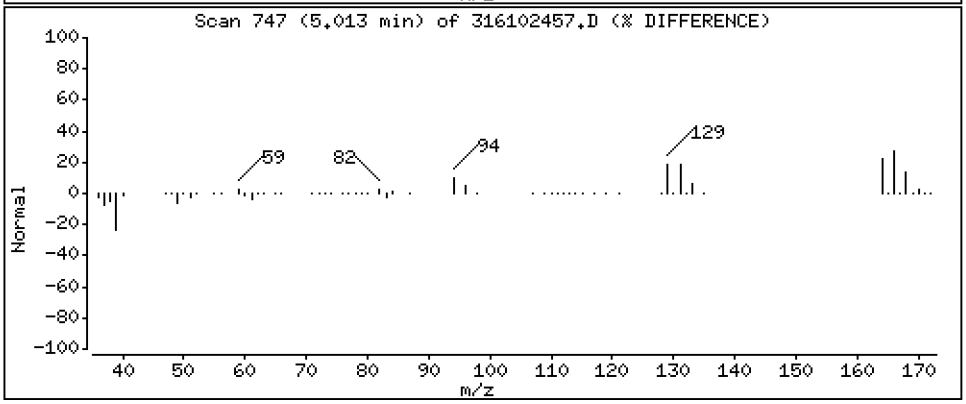
Column phase: DB-VRX Column diameter: 0.25

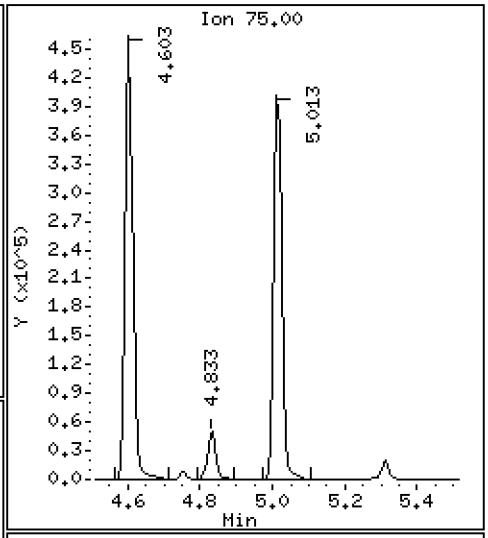
75 trans-1,3-Dichloropropene Concentration: 49.5767 ug/L

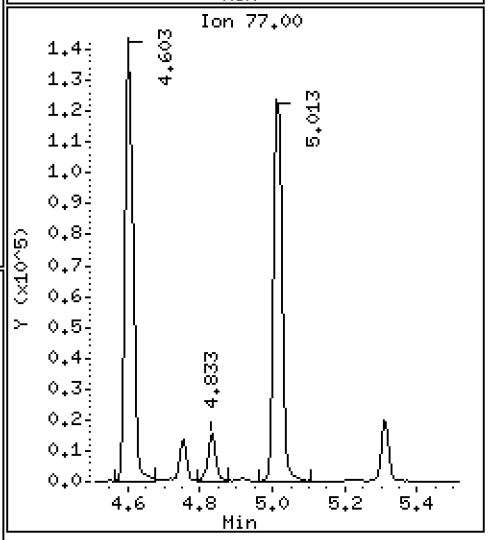












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 80

Date : 25-OCT-2016 00:52

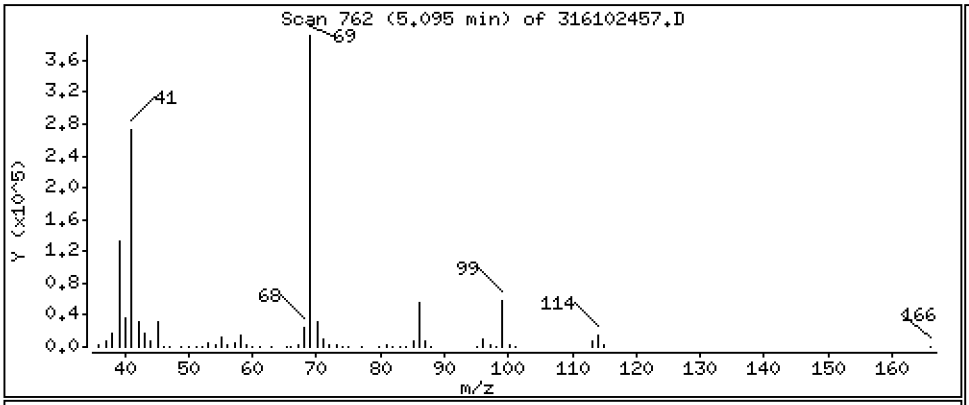
Client ID: Instrument: ms03.i

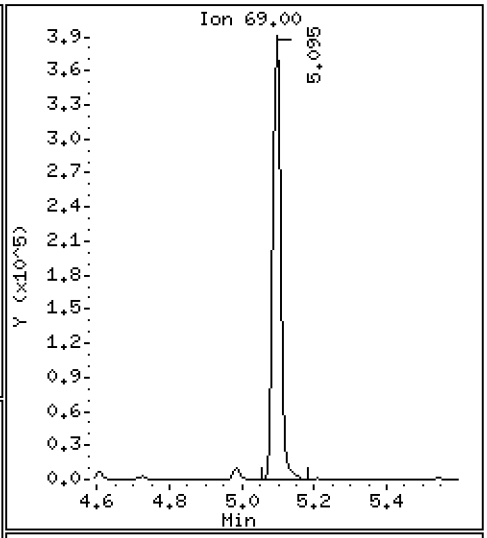
Sample Info: 1237;;1;1;4;;;

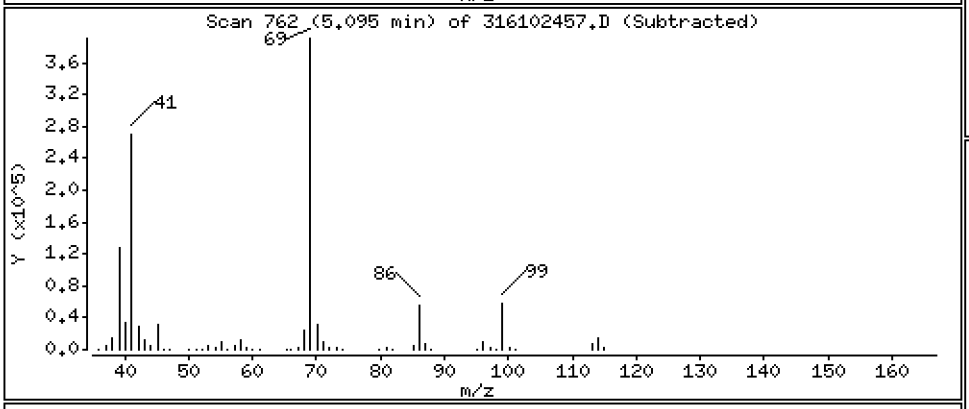
Purge Volume: 5.0 Operator: CJG

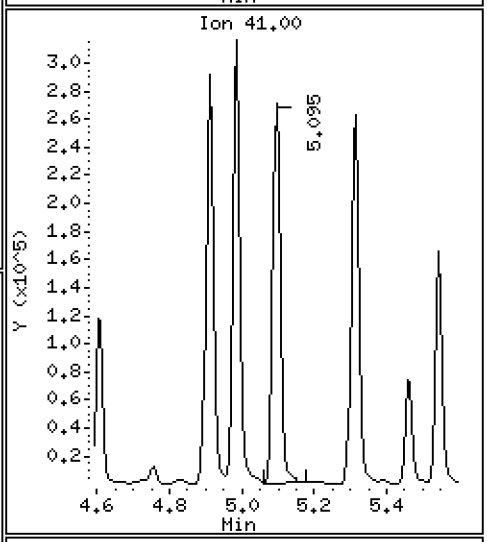
Column phase: DB-VRX Column diameter: 0.25

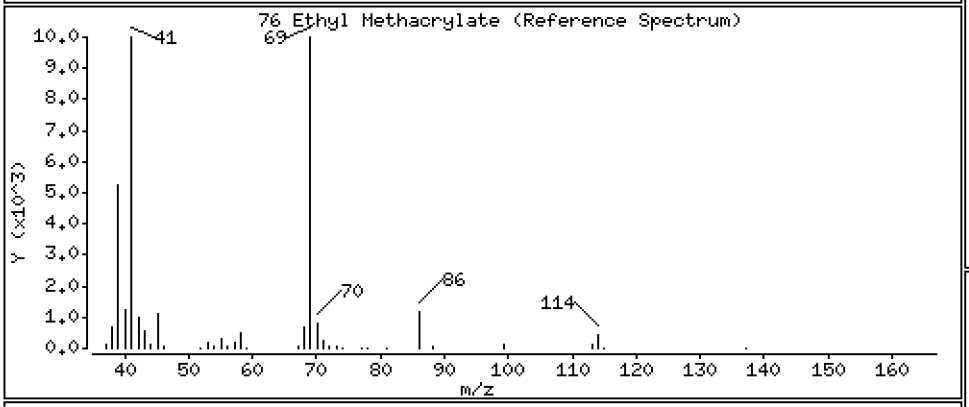
76 Ethyl Methacrylate Concentration: 50.2242 ug/L

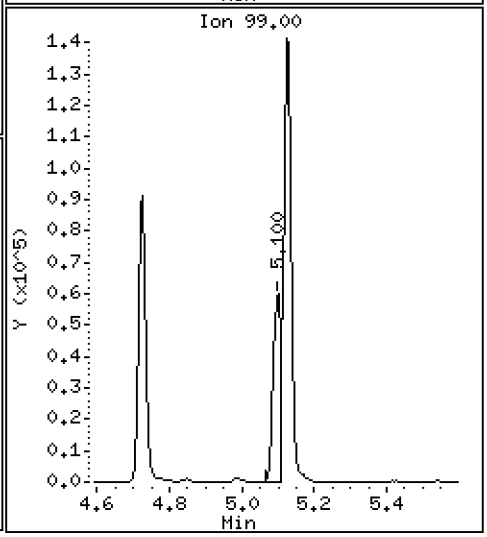


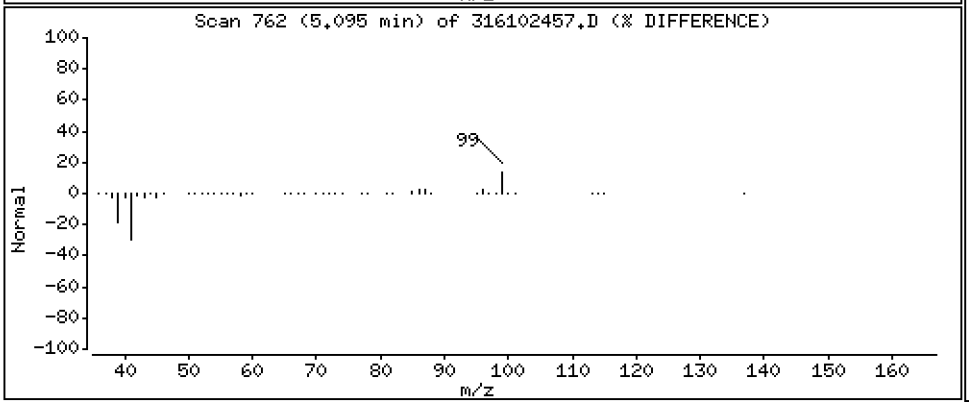












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 81

Date : 25-OCT-2016 00:52

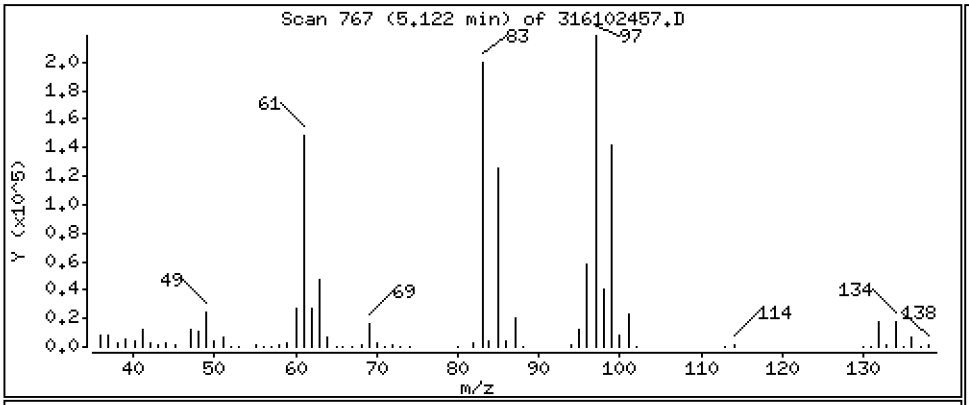
Client ID: Instrument: ms03.i

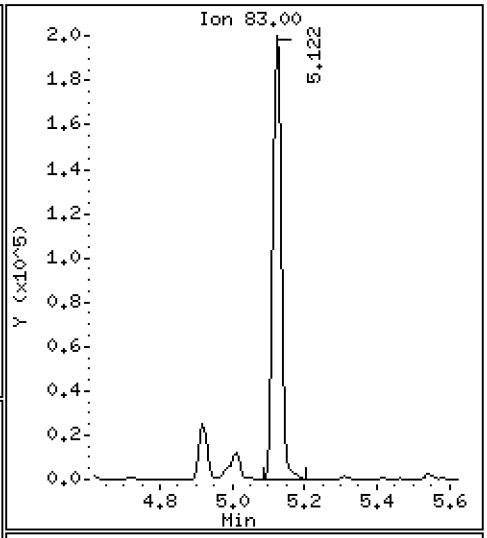
Sample Info: 1237;;1;1;4;;;

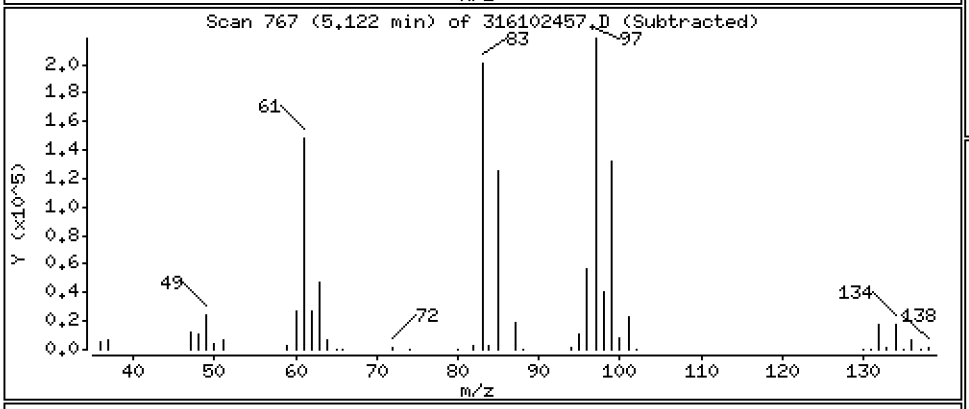
Purge Volume: 5.0 Operator: CJG

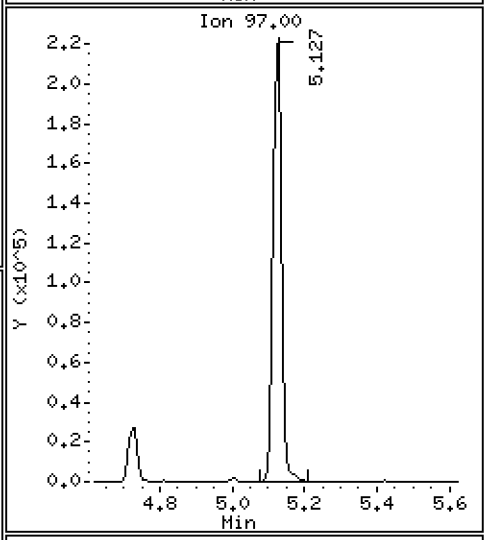
Column phase: DB-VRX Column diameter: 0.25

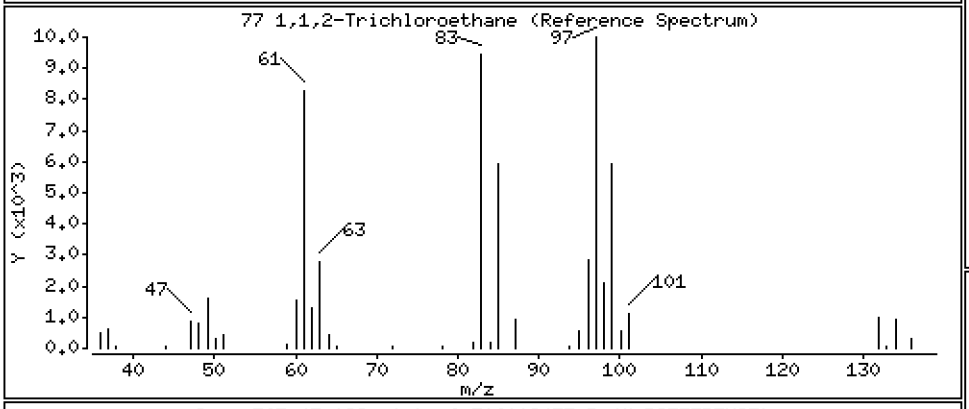
77 1,1,2-Trichloroethane Concentration: 50.5445 ug/L

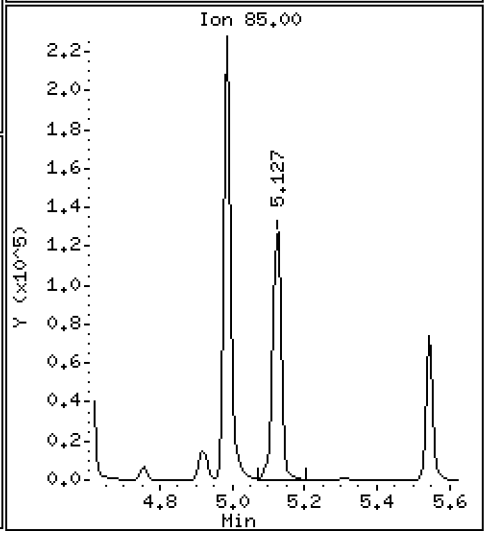


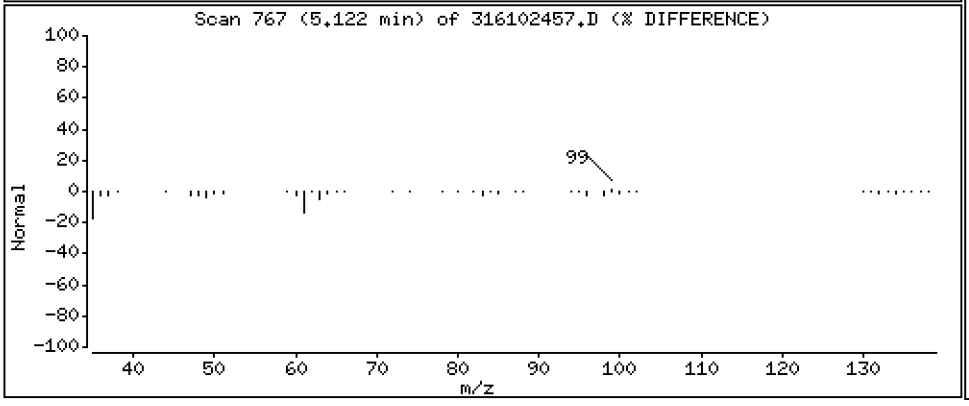












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 82

Date : 25-OCT-2016 00:52

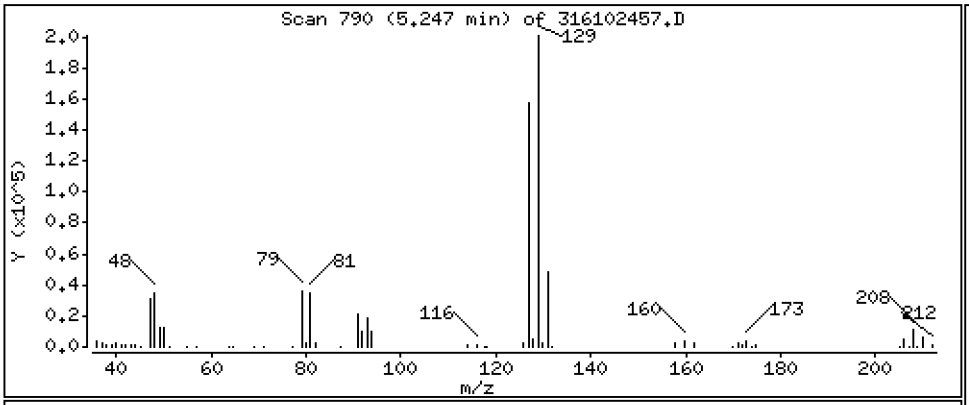
Client ID: Instrument: ms03.i

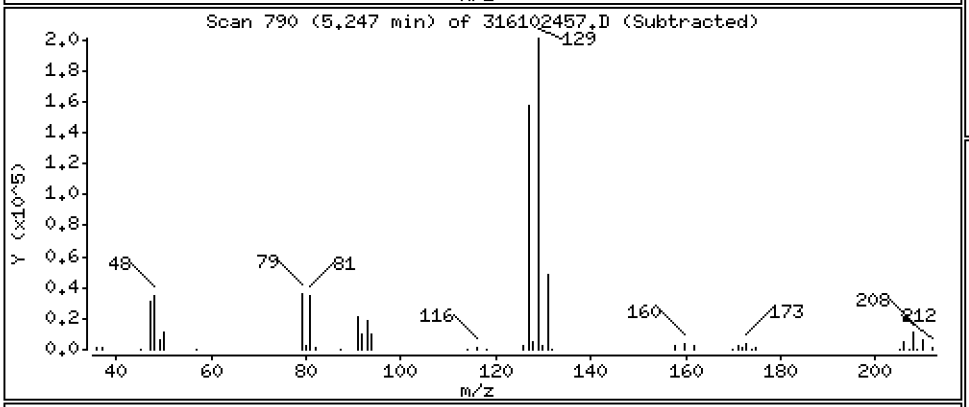
Sample Info: 1237;;1;1;4;;;

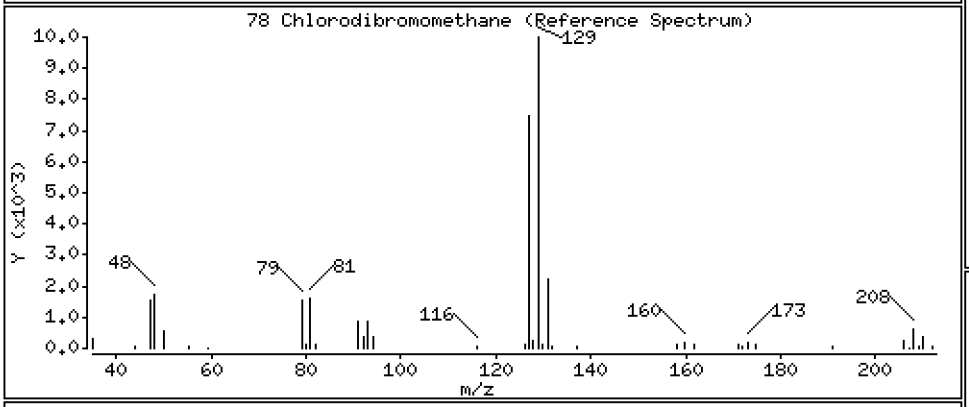
Purge Volume: 5.0 Operator: CJG

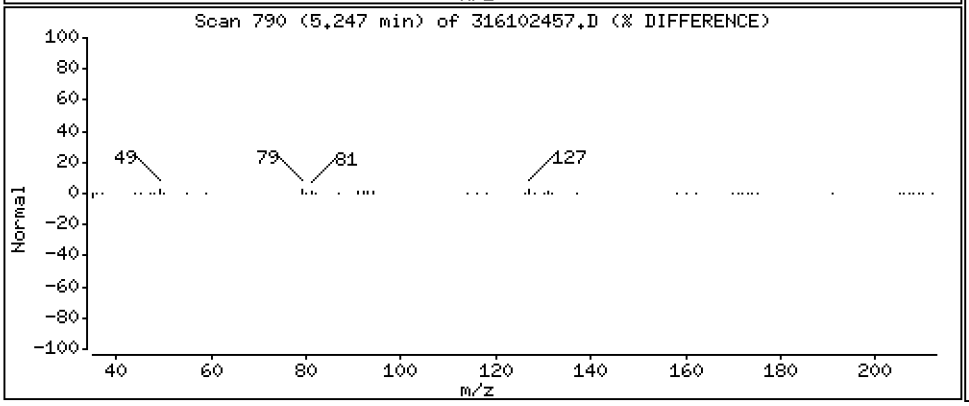
Column phase: DB-VRX Column diameter: 0.25

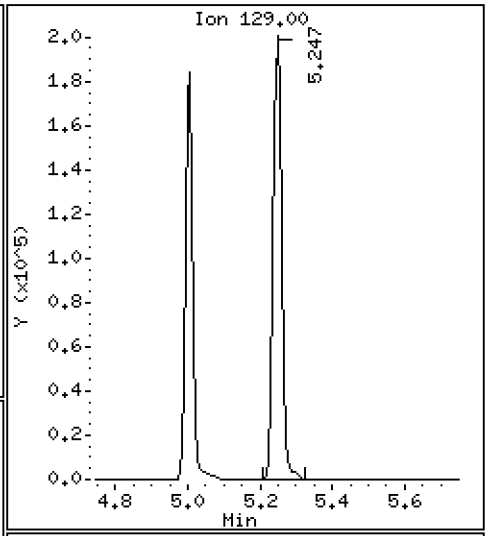
78 Chlorodibromomethane Concentration: 49.3791 ug/L

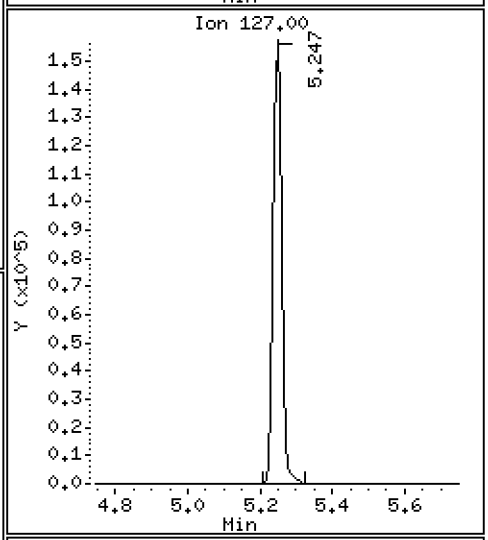


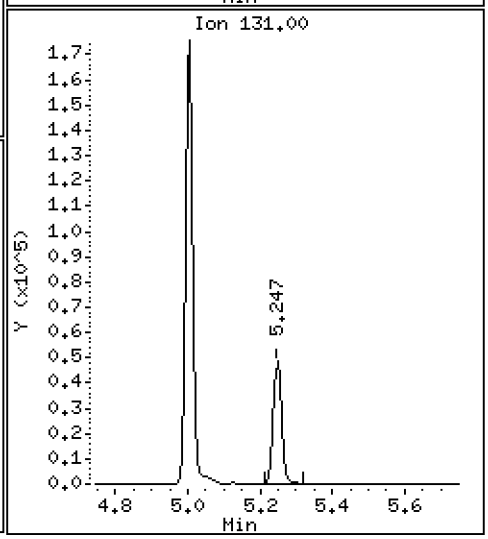












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 83

Date : 25-OCT-2016 00:52

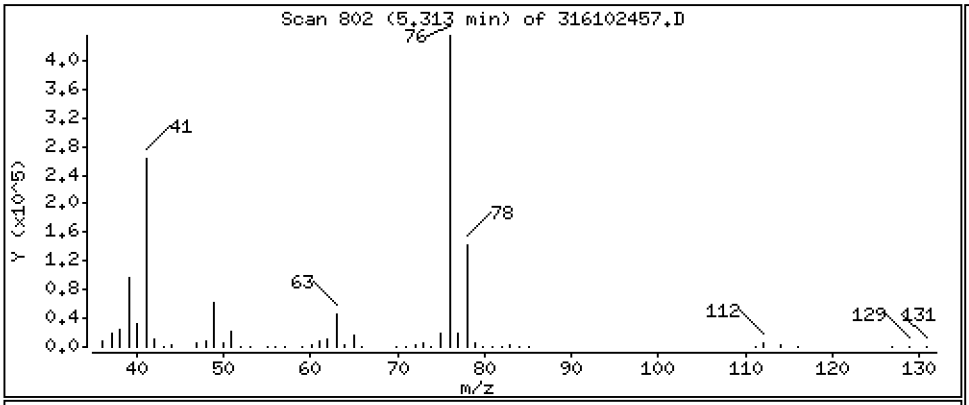
Client ID: Instrument: ms03.i

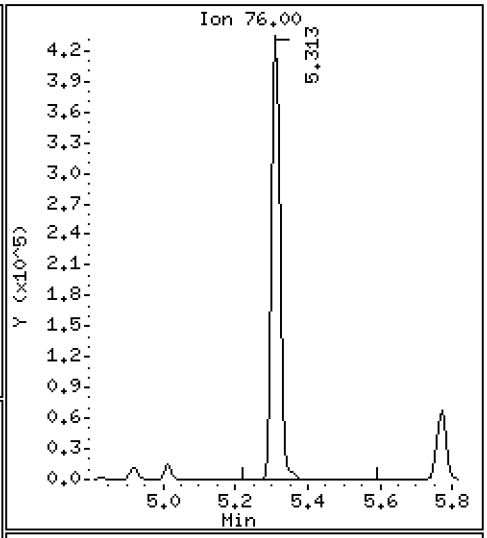
Sample Info: 1237;;1;1;4;;;

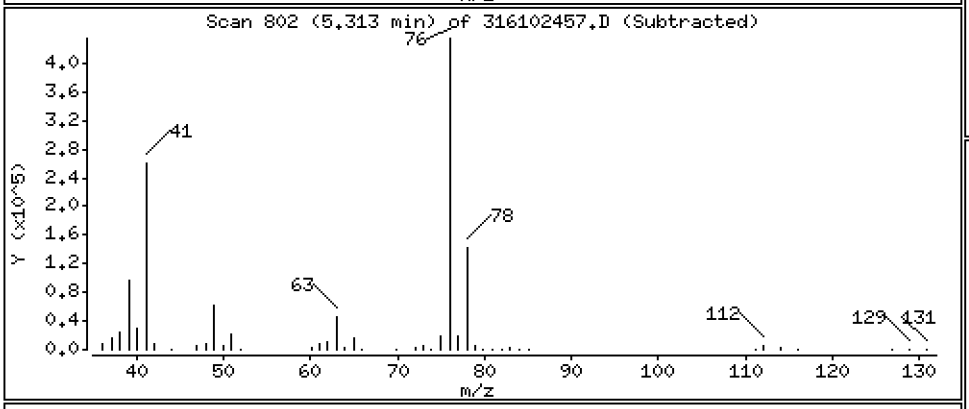
Purge Volume: 5.0 Operator: CJG

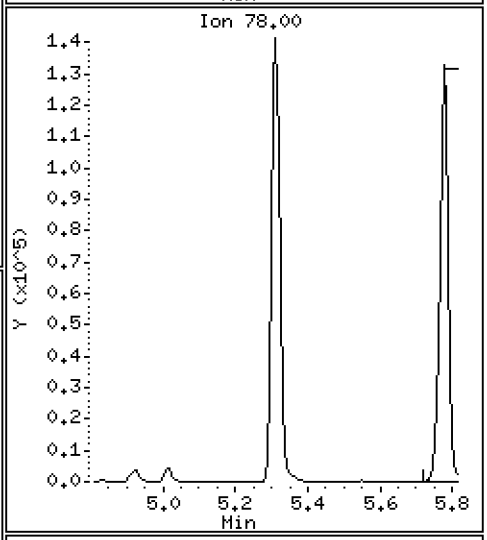
Column phase: DB-VRX Column diameter: 0.25

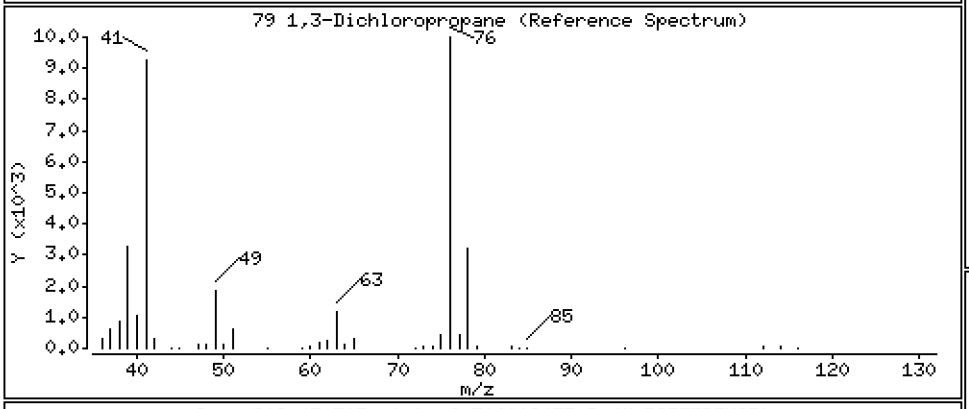
79 1,3-Dichloropropane Concentration: 50.7518 ug/L

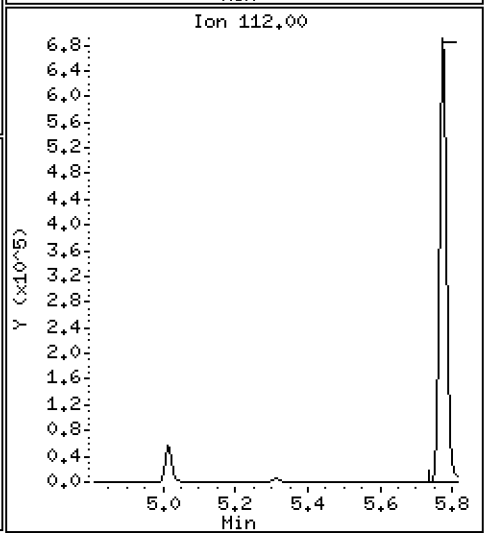


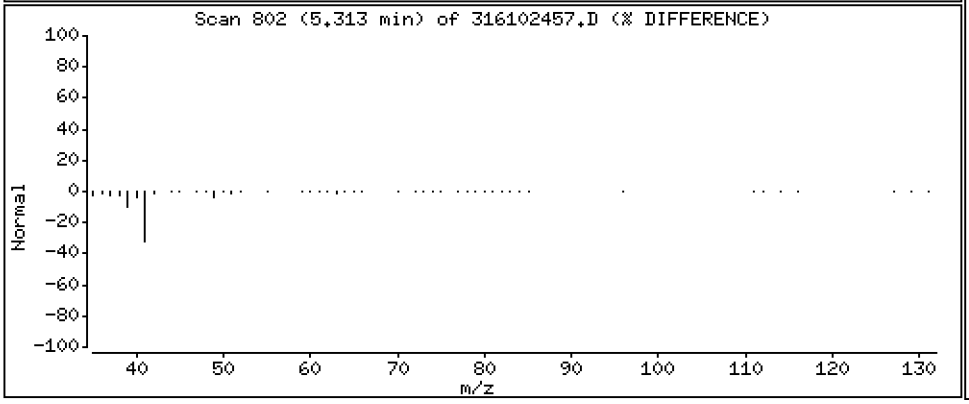












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 84

Date : 25-OCT-2016 00:52

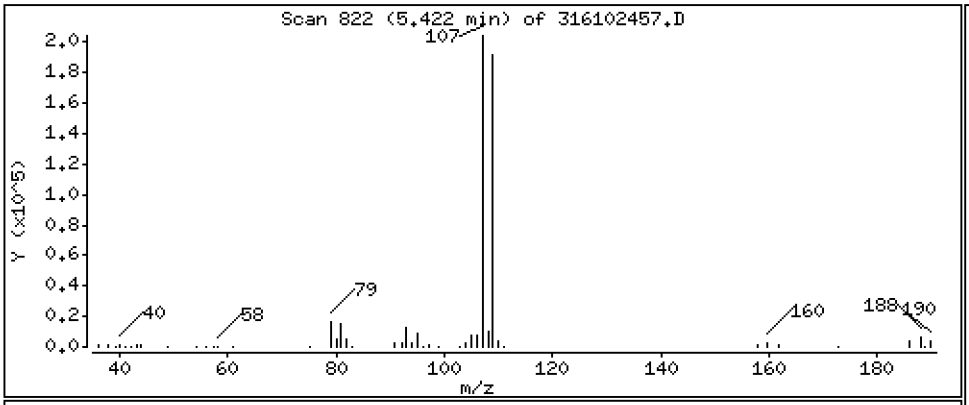
Client ID: Instrument: ms03.i

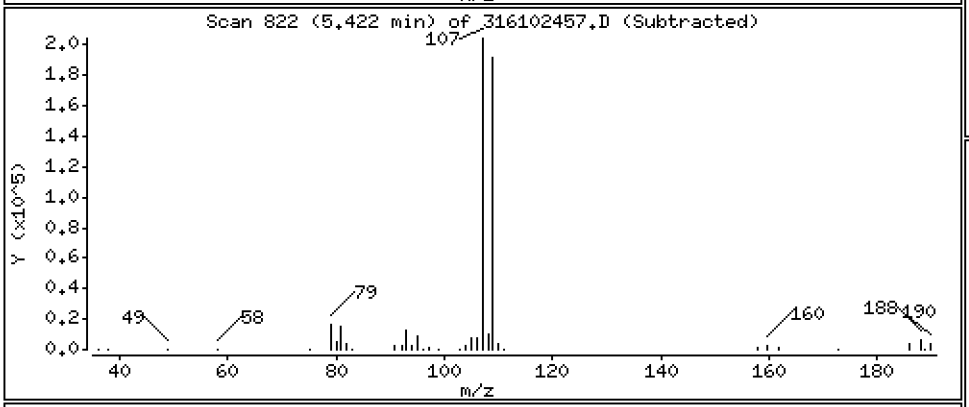
Sample Info: 1237;;1;1;4;;;

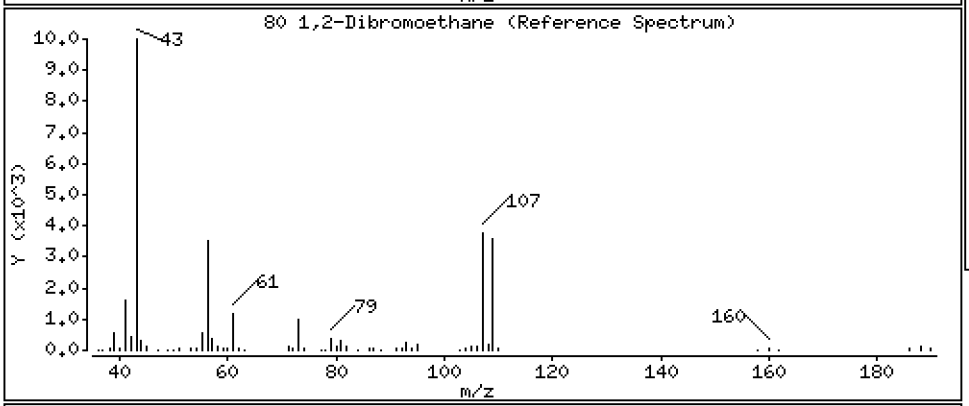
Purge Volume: 5.0 Operator: CJG

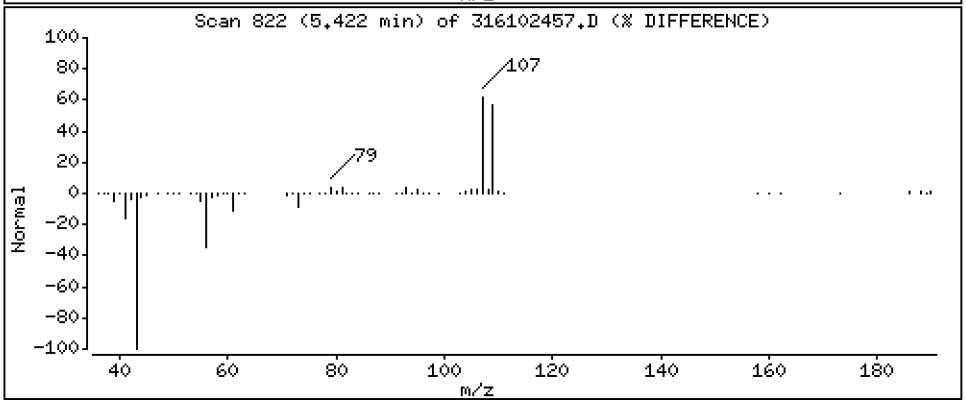
Column phase: DB-VRX Column diameter: 0.25

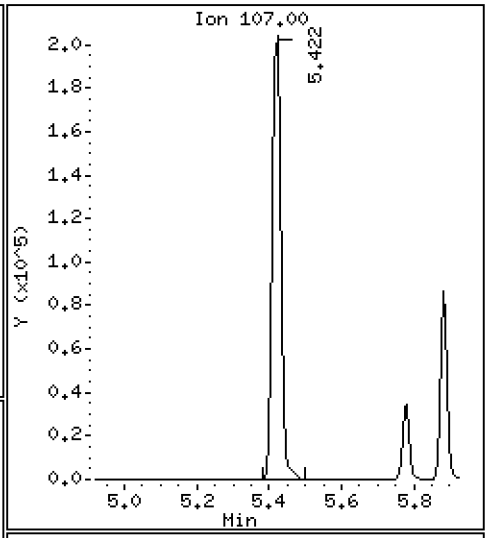
80 1,2-Dibromoethane Concentration: 50.0352 ug/L

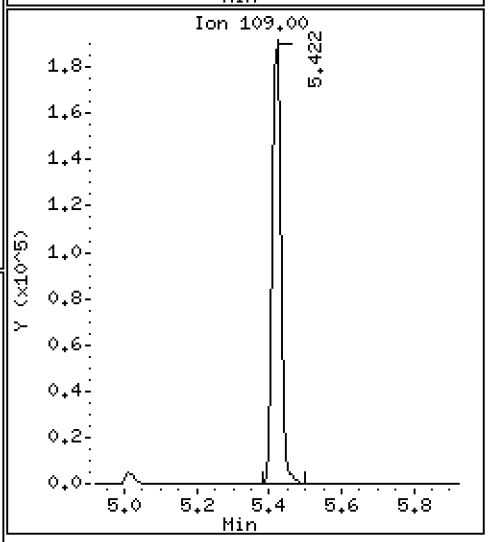












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 85

Date : 25-OCT-2016 00:52

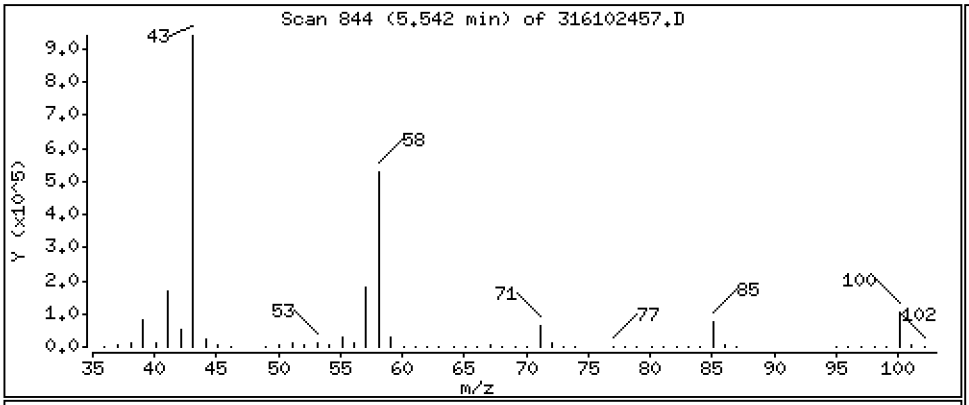
Client ID: Instrument: ms03.i

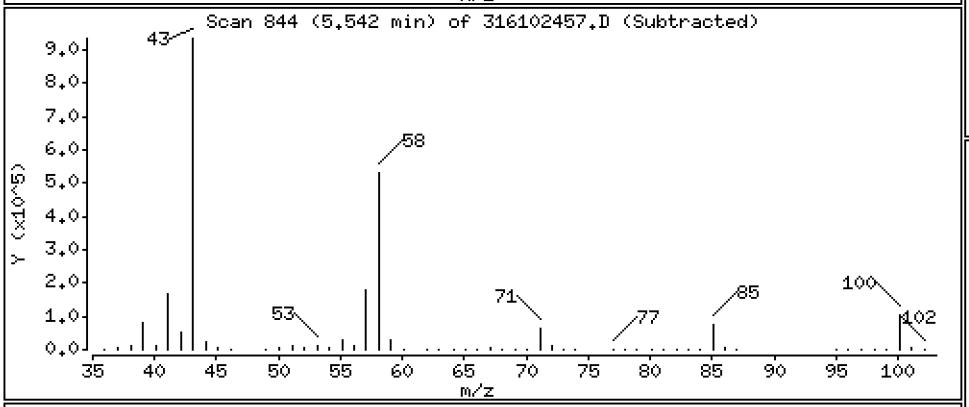
Sample Info: 1237;;1;1;4;;;

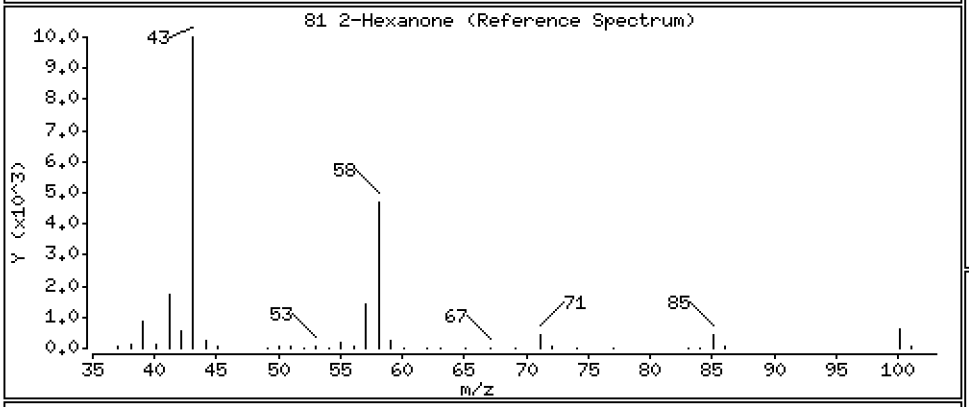
Purge Volume: 5.0 Operator: CJG

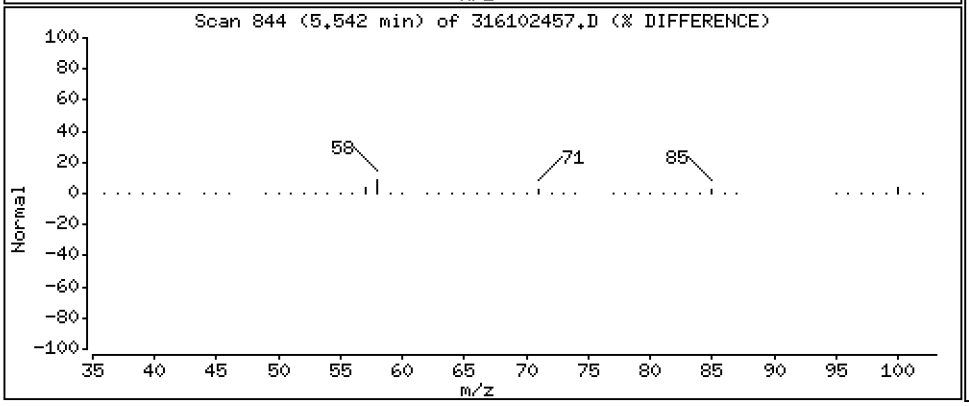
Column phase: DB-VRX Column diameter: 0.25

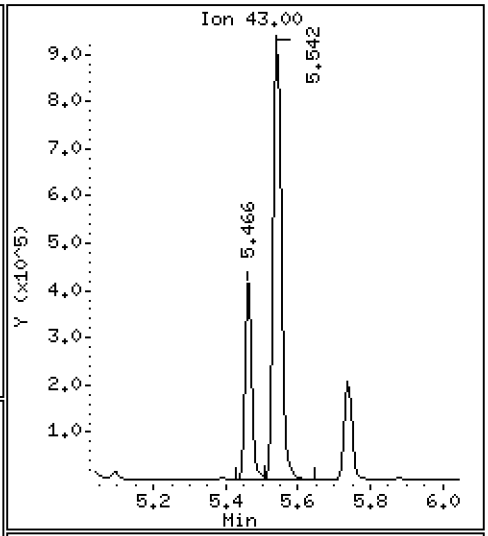
81 2-Hexanone Concentration: 255.973 ug/L

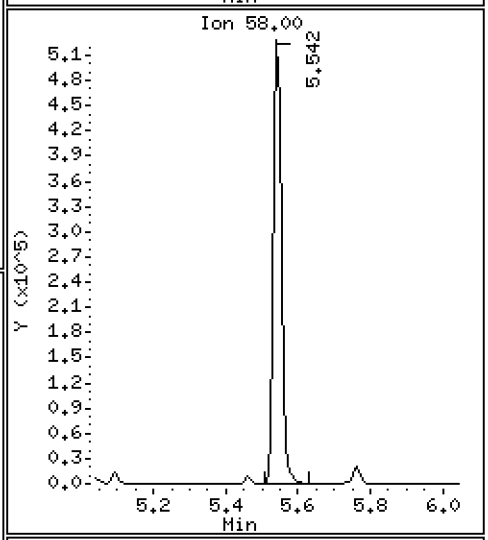


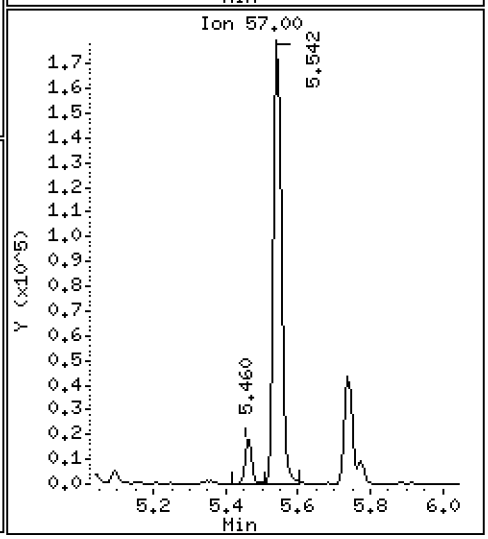












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 86

Date : 25-OCT-2016 00:52

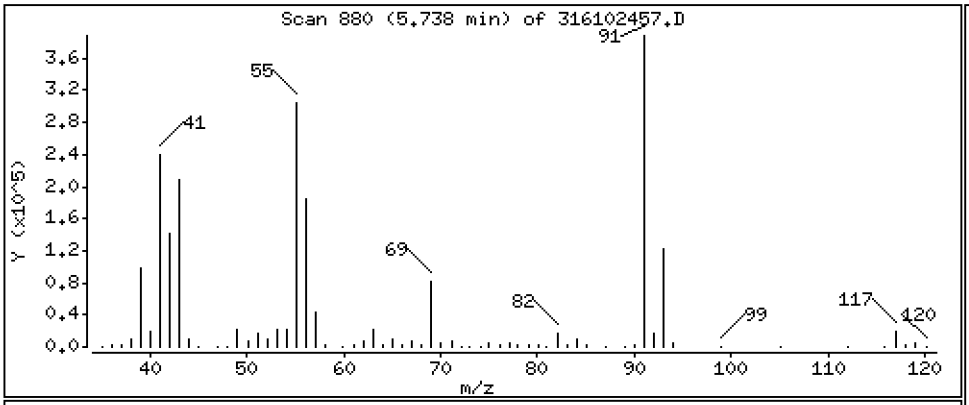
Client ID: Instrument: ms03.i

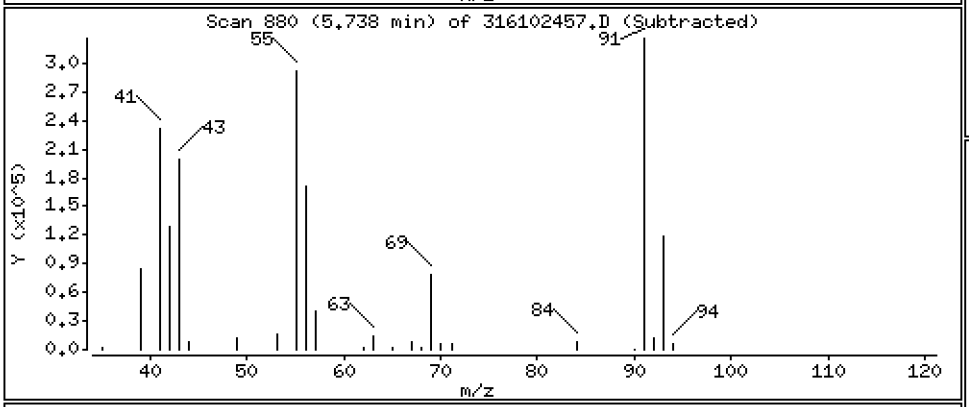
Sample Info: 1237;;1;1;4;;;

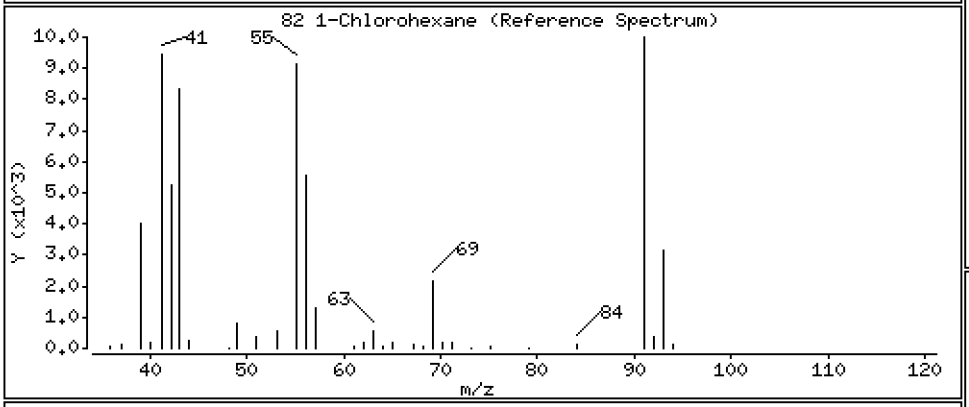
Purge Volume: 5.0 Operator: CJG

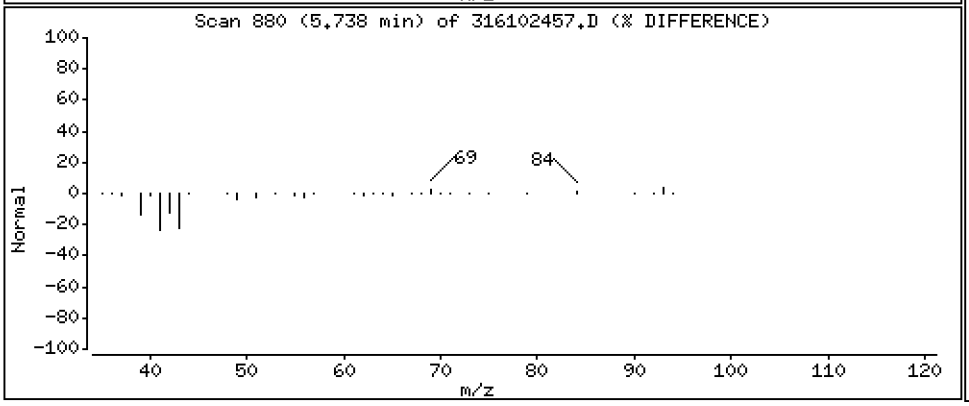
Column phase: DB-VRX Column diameter: 0.25

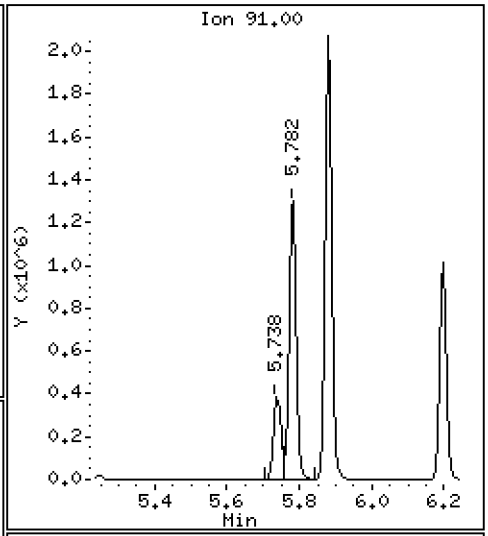
82 1-Chlorohexane Concentration: 47.2656 ug/L

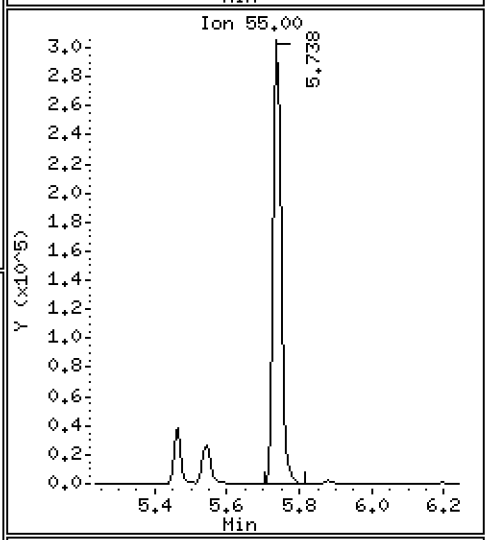


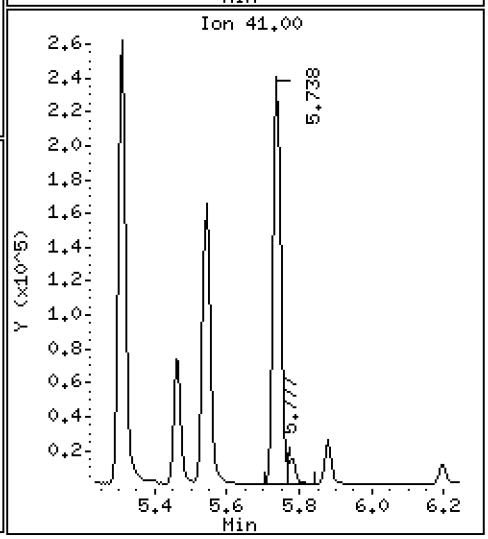












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 87

Date : 25-OCT-2016 00:52

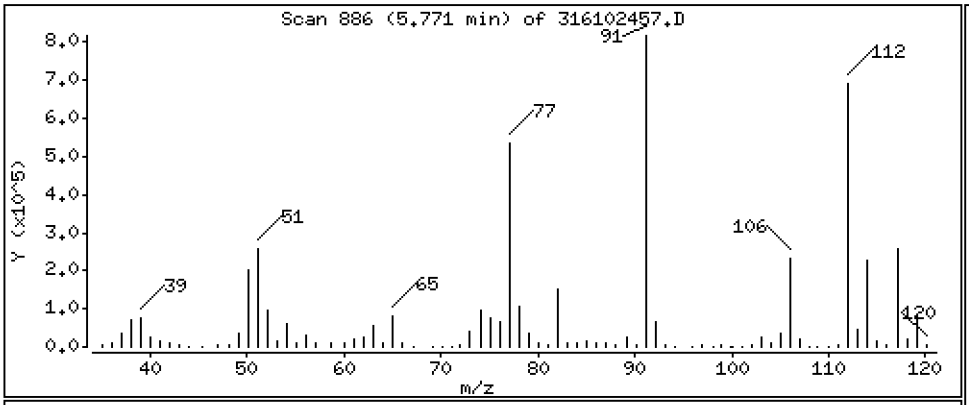
Client ID: Instrument: ms03.i

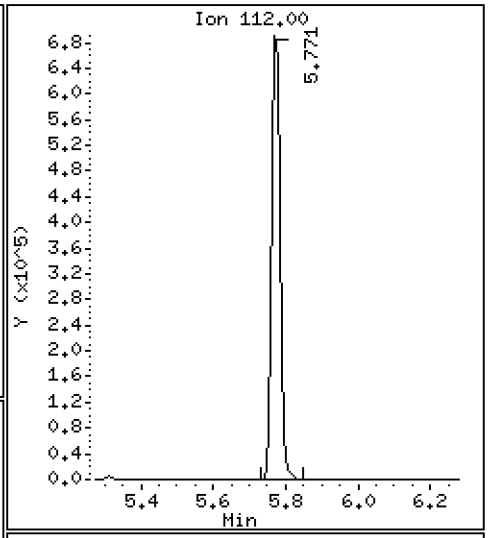
Sample Info: 1237;;1;1;4;;;

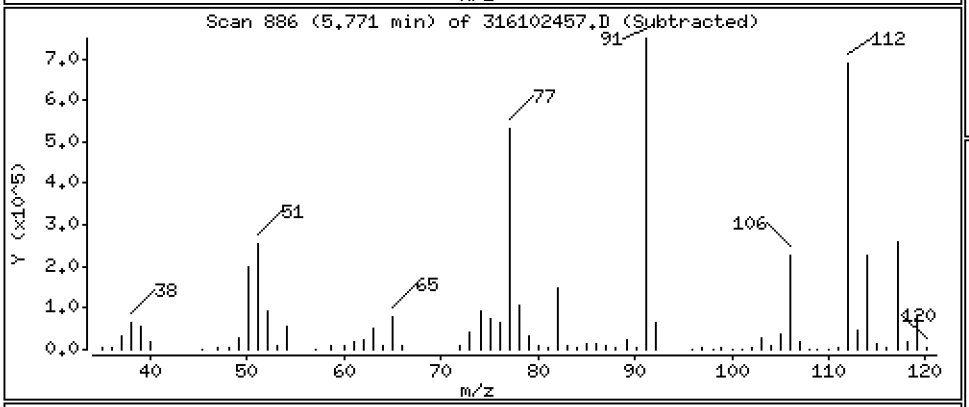
Purge Volume: 5.0 Operator: CJG

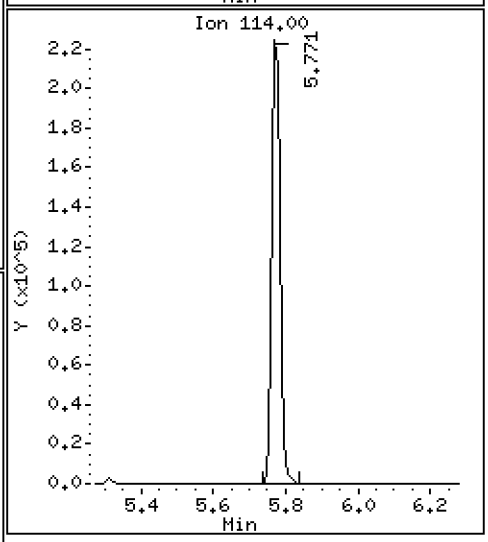
Column phase: DB-VRX Column diameter: 0.25

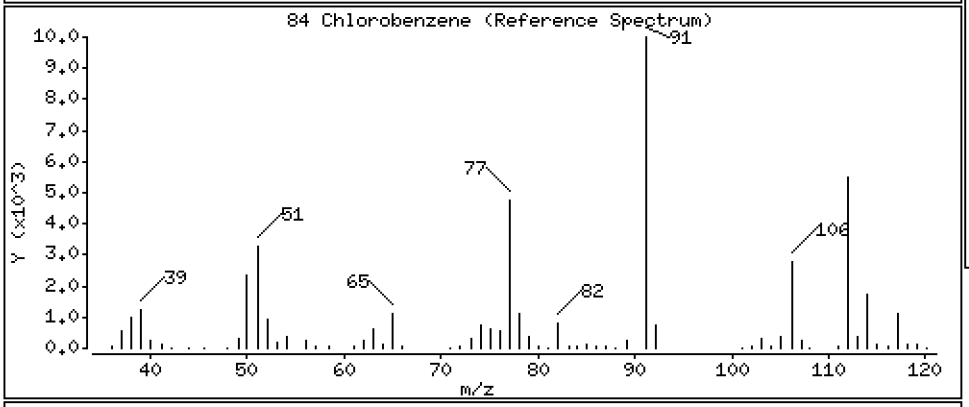
84 Chlorobenzene Concentration: 50.0179 ug/L

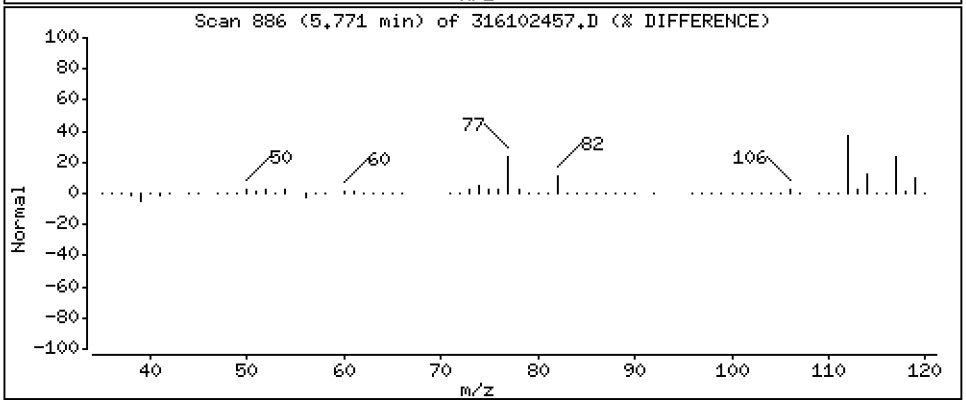












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 88

Date : 25-OCT-2016 00:52

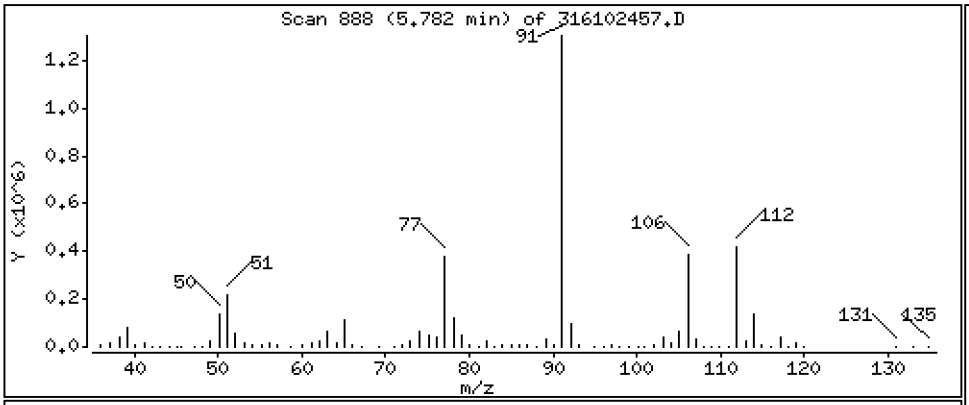
Client ID: Instrument: ms03.i

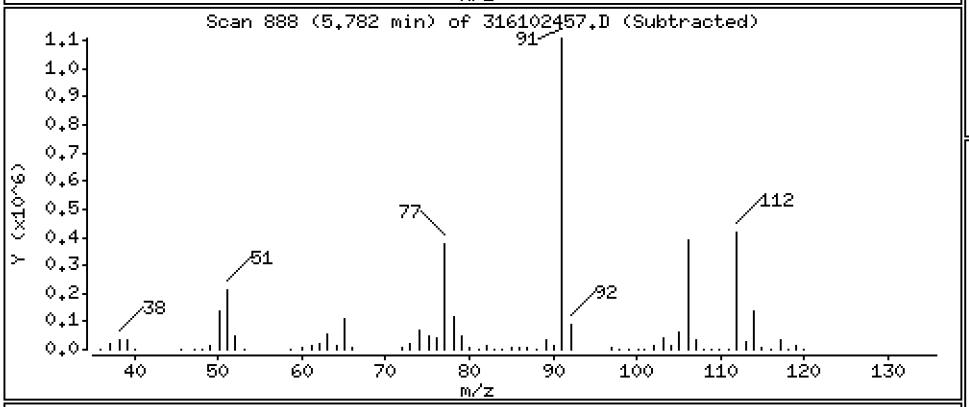
Sample Info: 1237;;1;1;4;;;

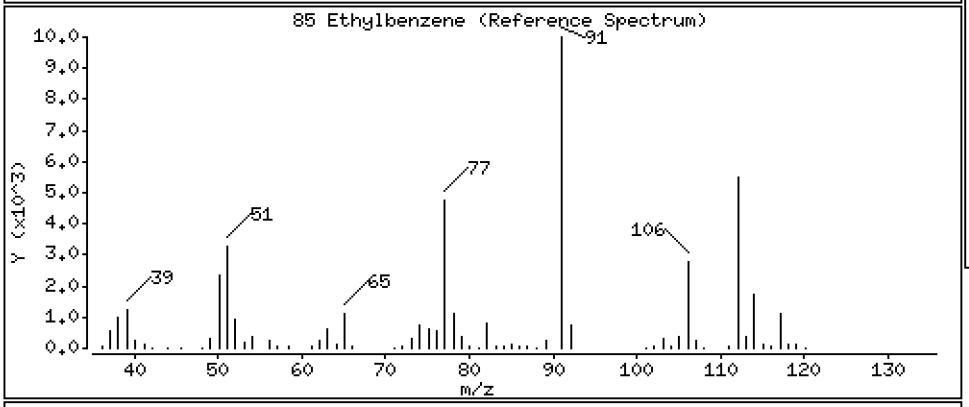
Purge Volume: 5.0 Operator: CJG

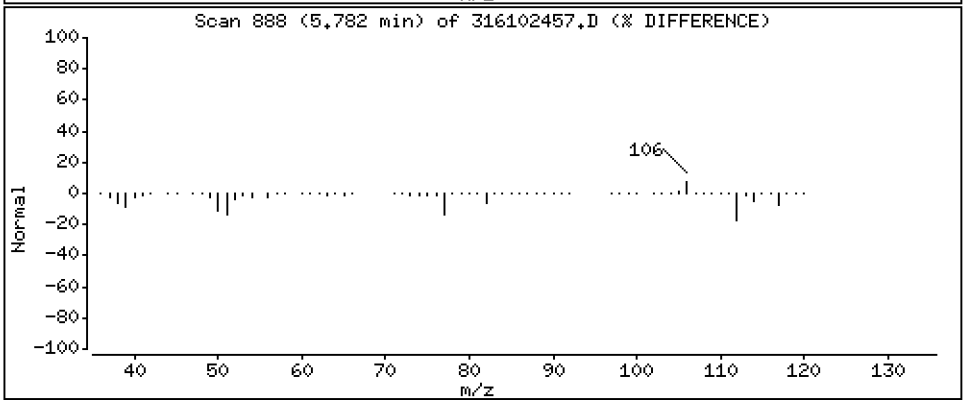
Column phase: DB-VRX Column diameter: 0.25

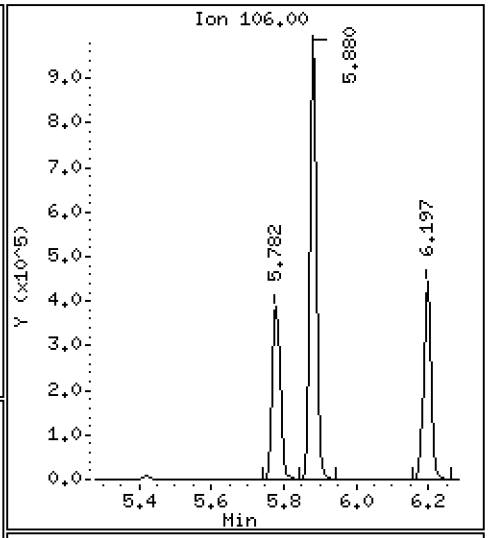
85 Ethylbenzene Concentration: 49.7156 ug/L

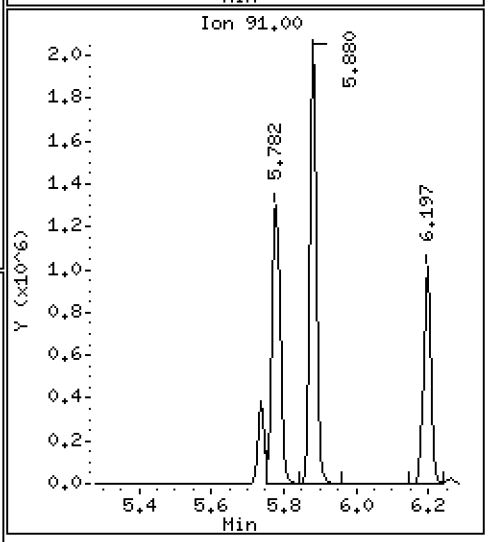












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 89

Date : 25-OCT-2016 00:52

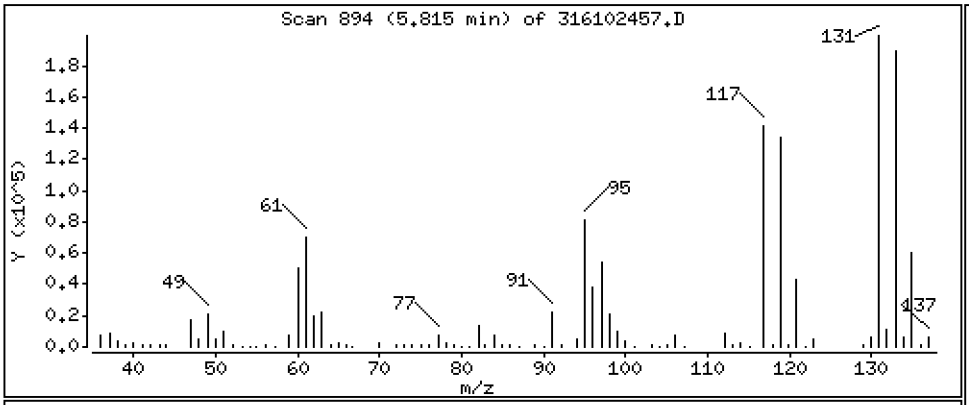
Client ID: Instrument: ms03.i

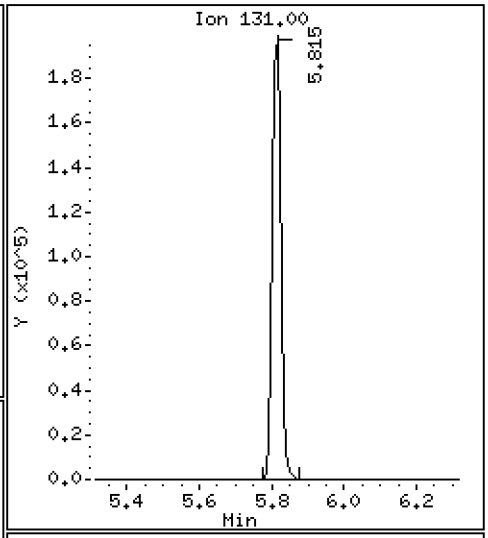
Sample Info: 1237;;1;1;4;;;

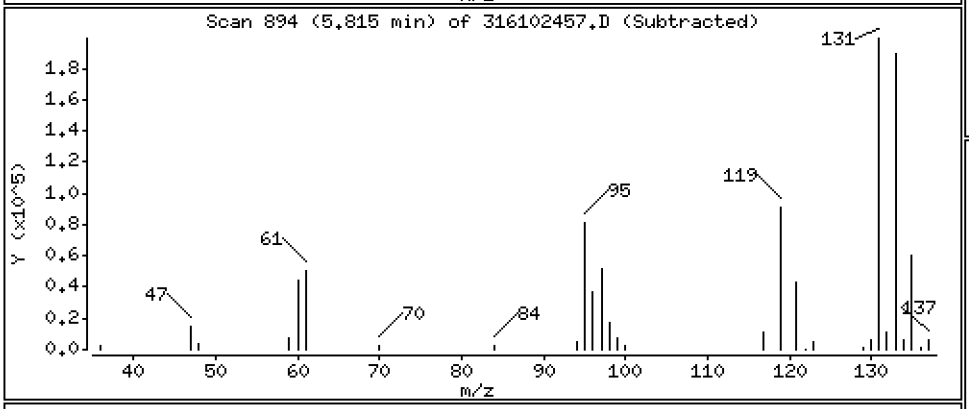
Purge Volume: 5.0 Operator: CJG

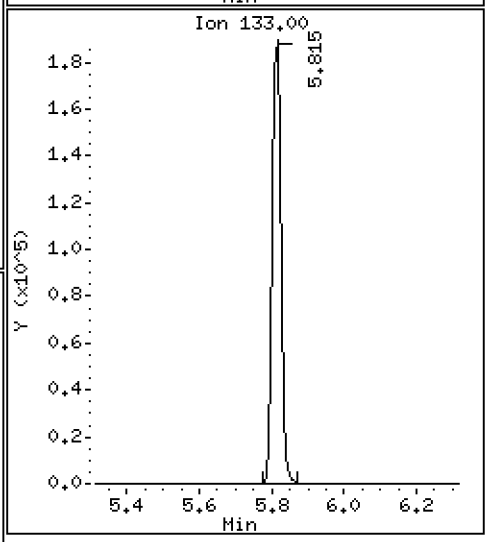
Column phase: DB-VRX Column diameter: 0.25

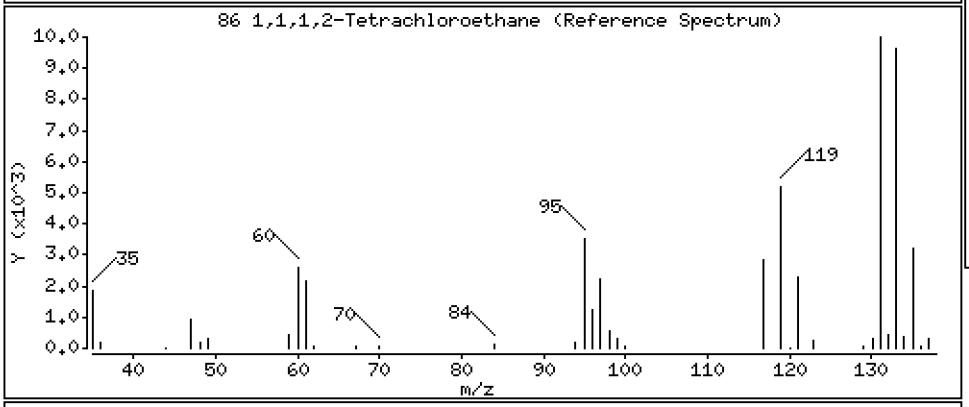
86 1,1,1,2-Tetrachloroethane Concentration: 49.6438 ug/L

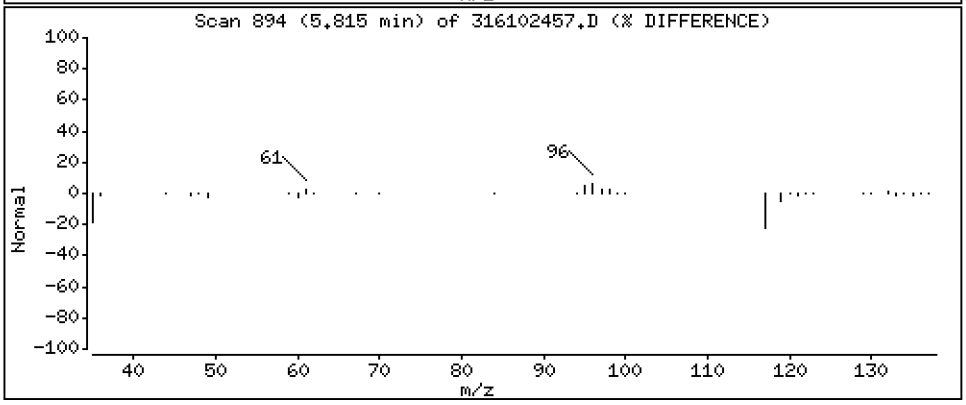












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 90

Date : 25-OCT-2016 00:52

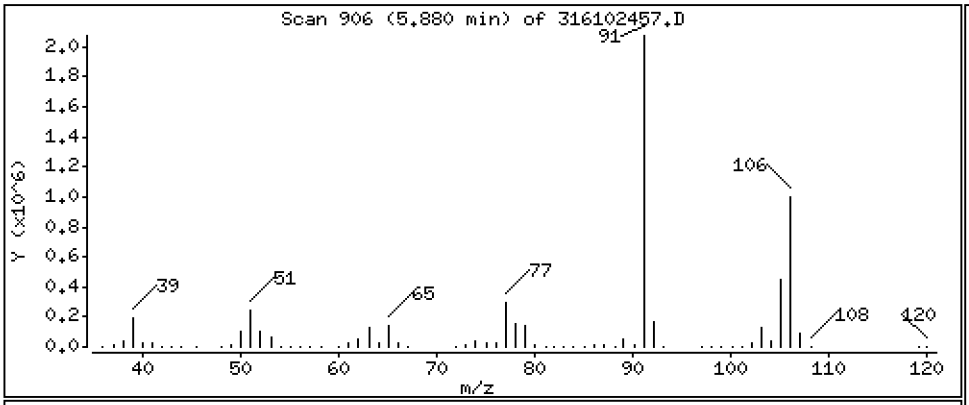
Client ID: Instrument: ms03.i

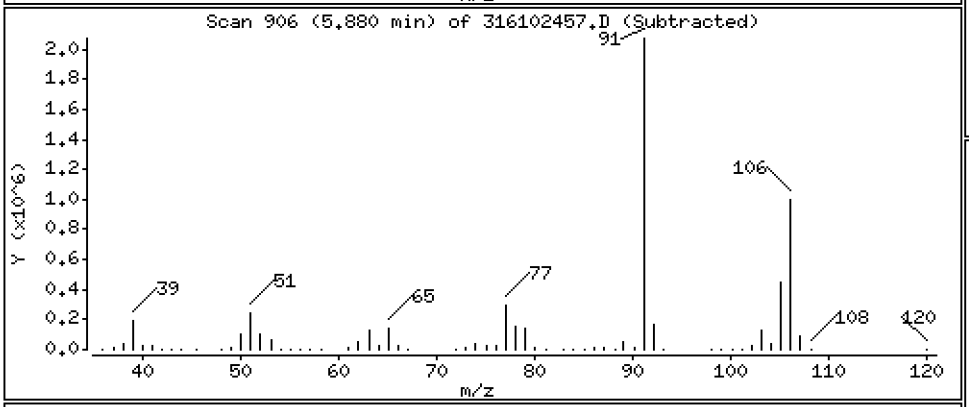
Sample Info: 1237;;1;1;4;;;

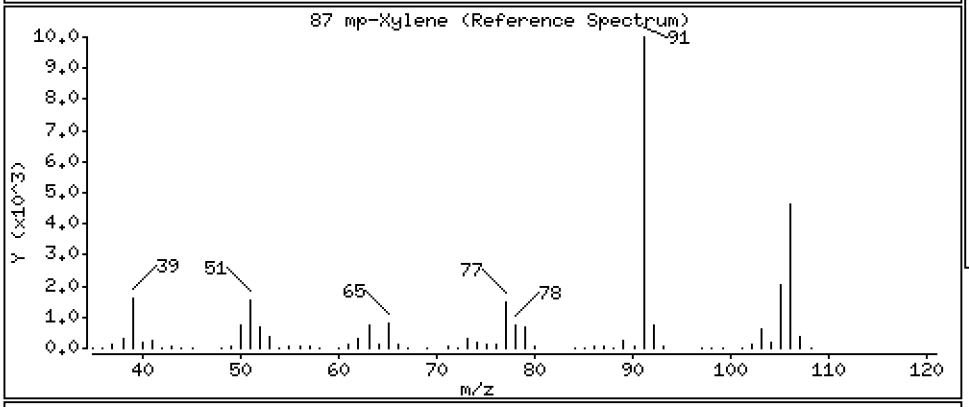
Purge Volume: 5.0 Operator: CJG

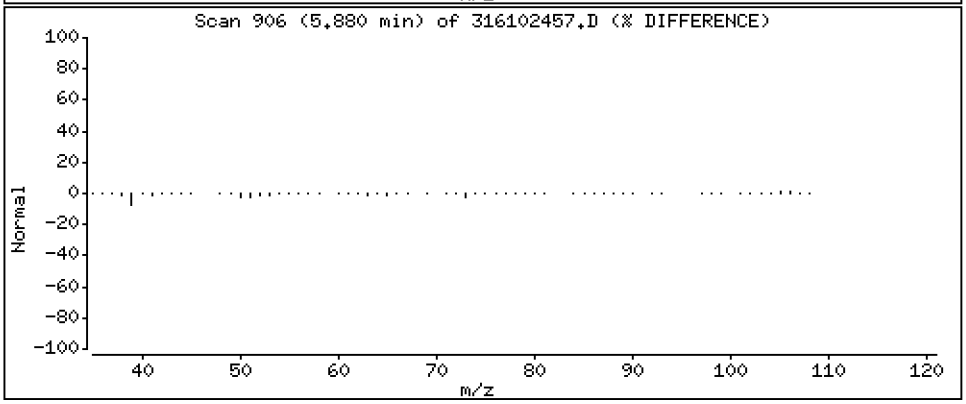
Column phase: DB-VRX Column diameter: 0.25

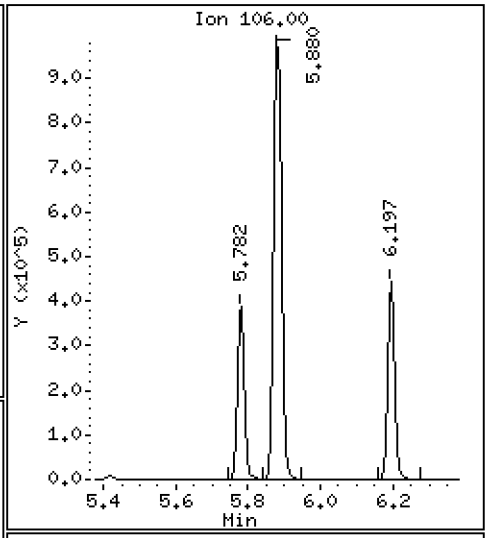
87 mp-Xylene Concentration: 99.5592 ug/L

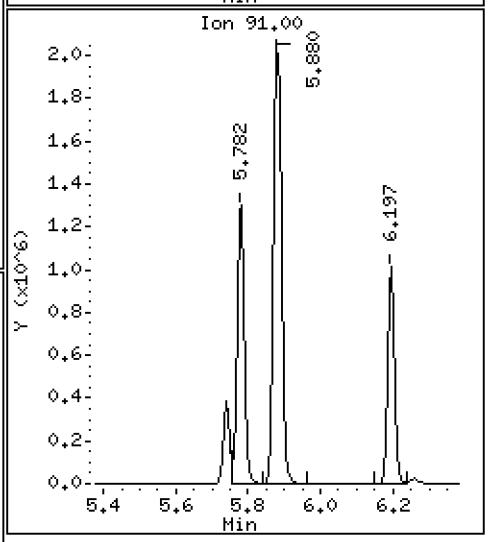












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 91

Date : 25-OCT-2016 00:52

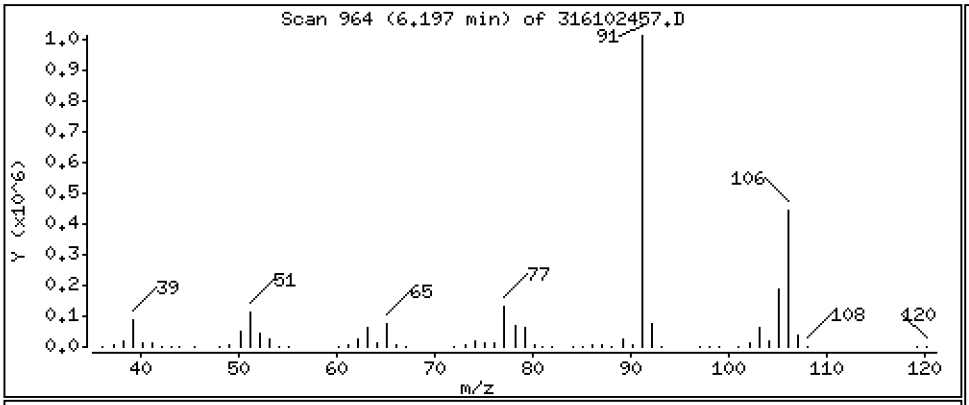
Client ID: Instrument: ms03.i

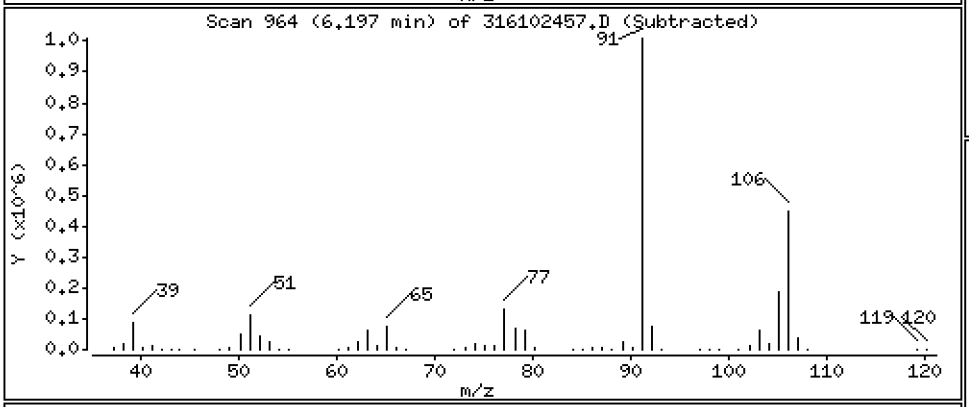
Sample Info: 1237;;1;1;4;;;

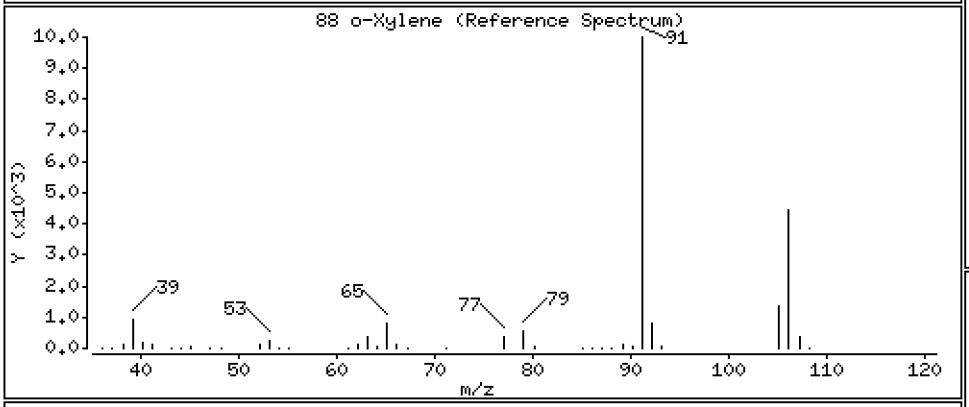
Purge Volume: 5.0 Operator: CJG

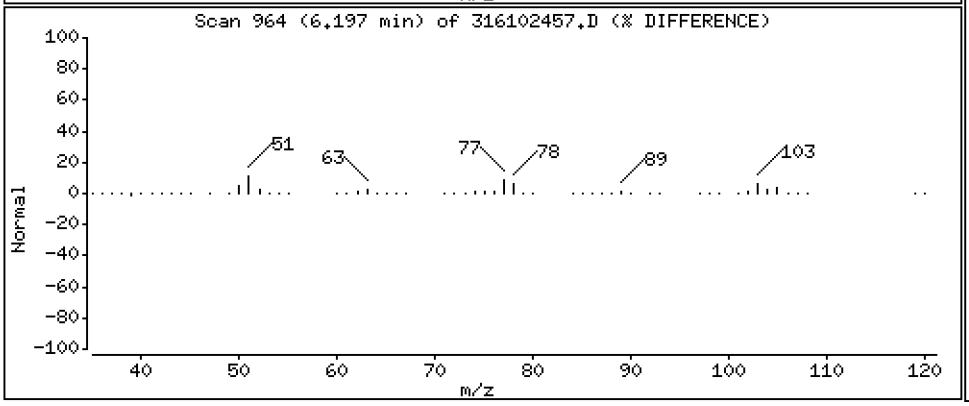
Column phase: DB-VRX Column diameter: 0.25

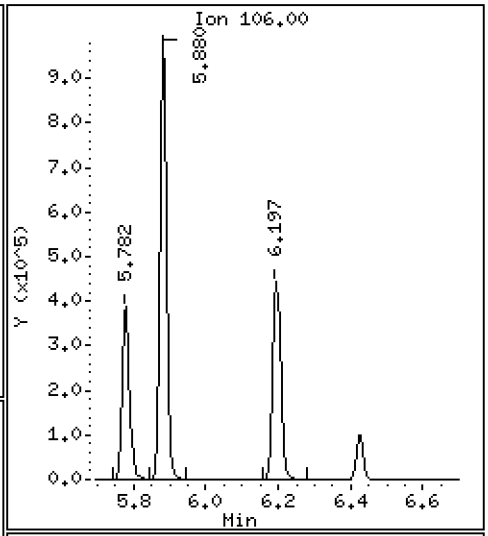
88 o-Xylene Concentration: 49.1045 ug/L

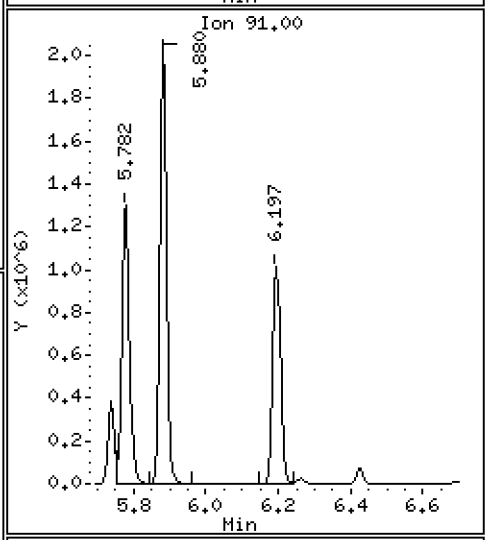


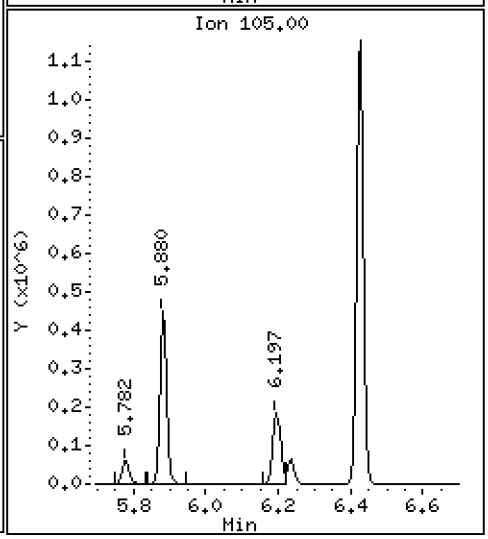












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 92

Date : 25-OCT-2016 00:52

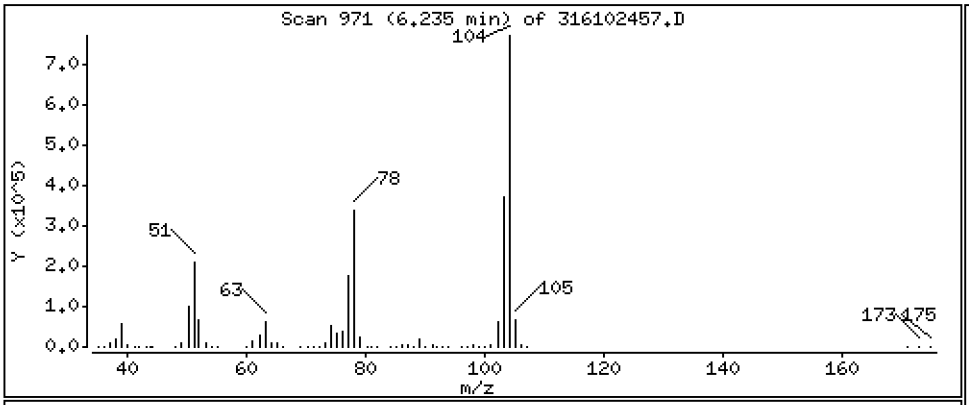
Client ID: Instrument: ms03.i

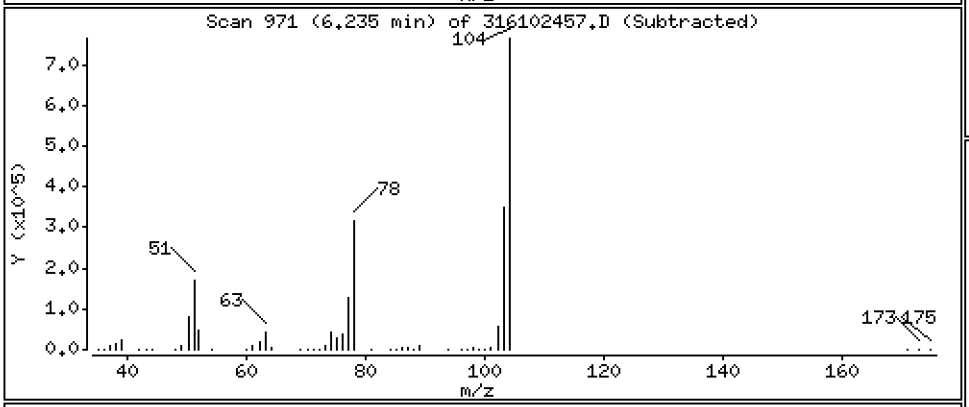
Sample Info: 1237;;1;1;4;;;

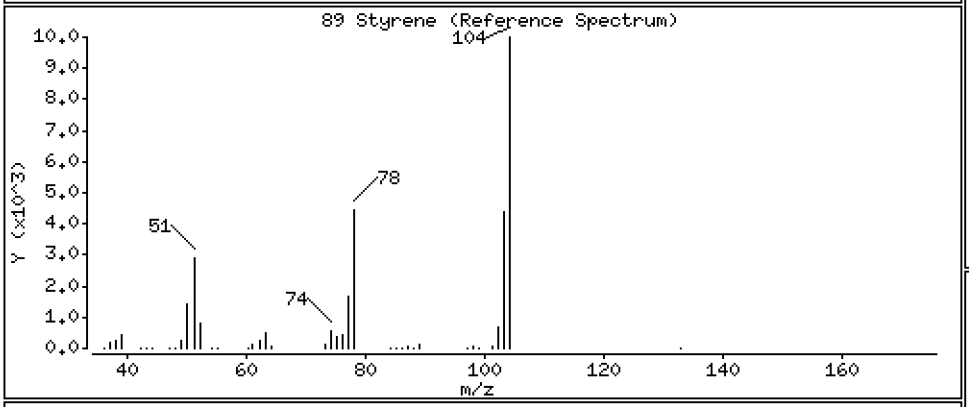
Purge Volume: 5.0 Operator: CJG

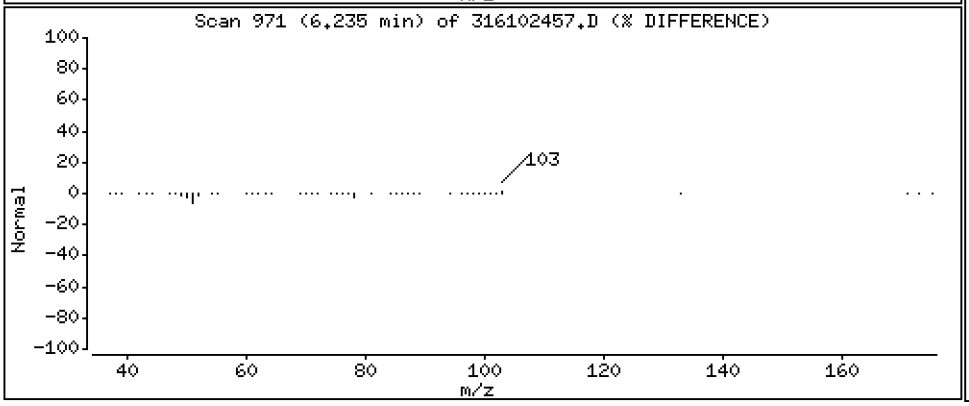
Column phase: DB-VRX Column diameter: 0.25

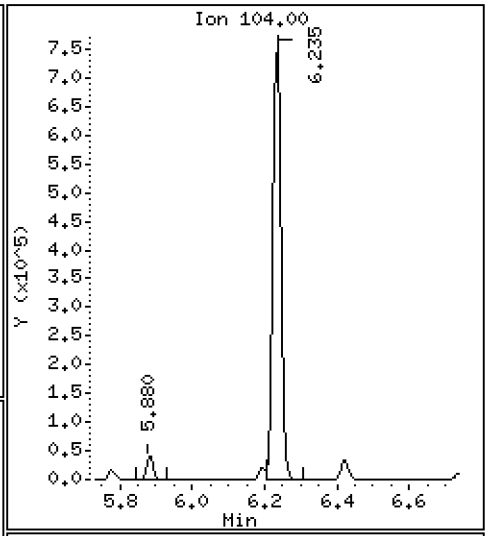
89 Styrene Concentration: 49.0855 ug/L

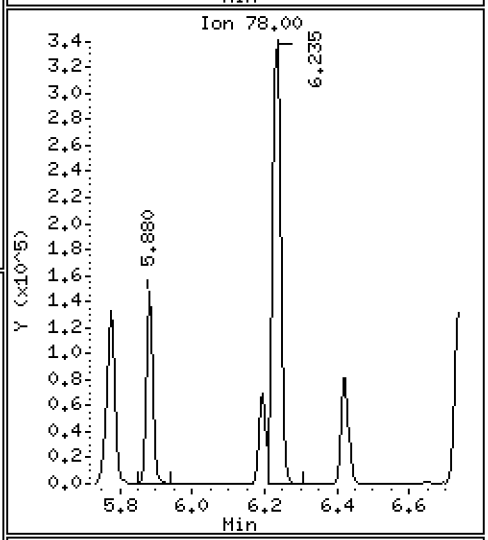


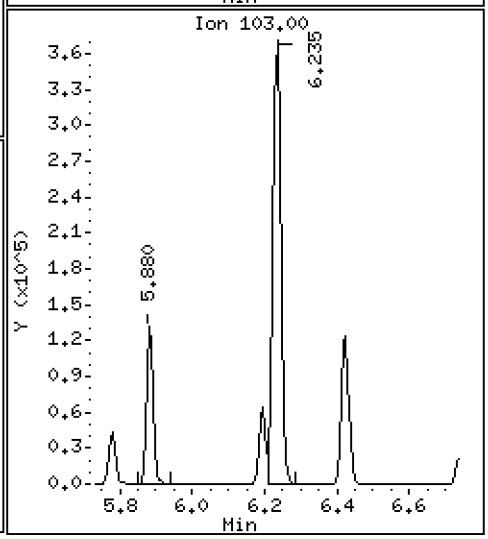












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 93

Date : 25-OCT-2016 00:52

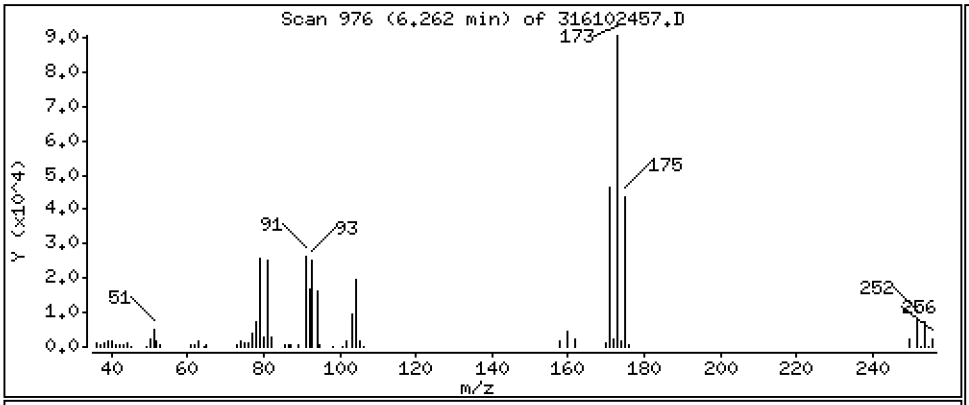
Client ID: Instrument: ms03.i

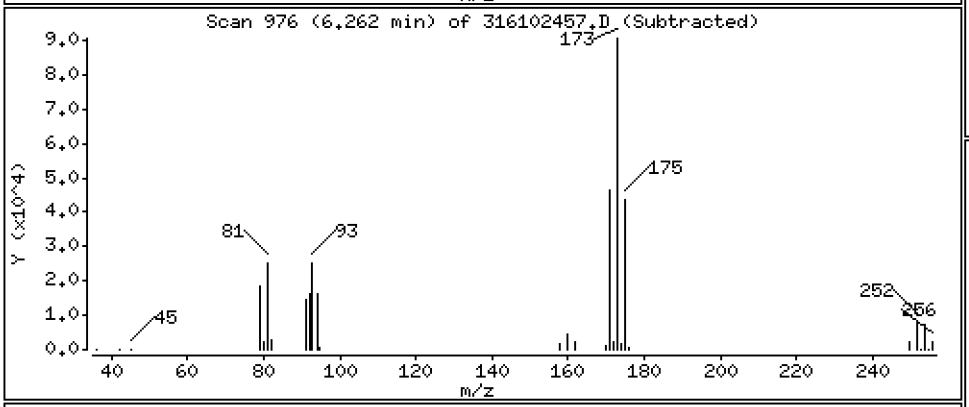
Sample Info: 1237;;1;1;4;;;

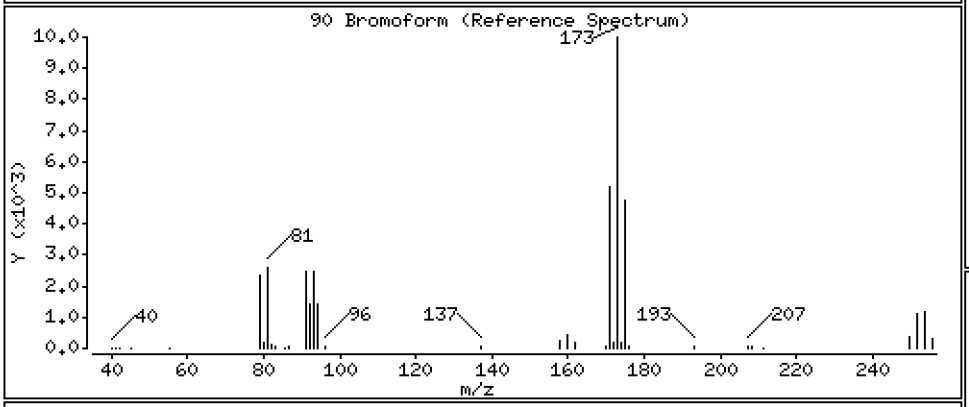
Purge Volume: 5.0 Operator: CJG

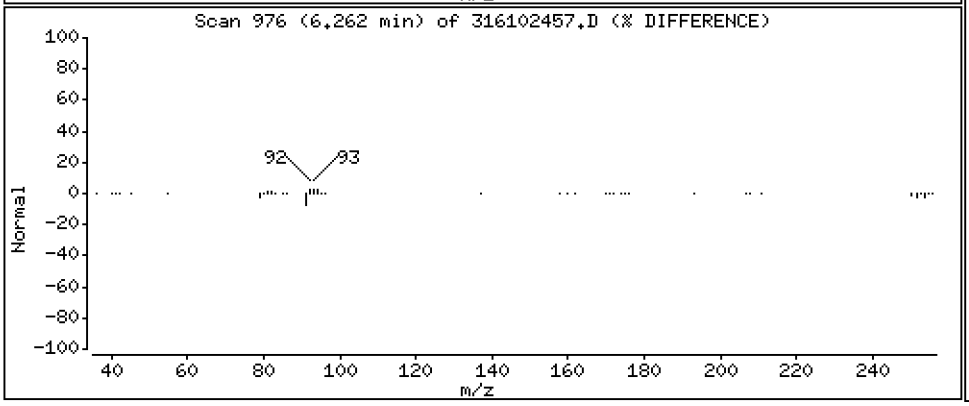
Column phase: DB-VRX Column diameter: 0.25

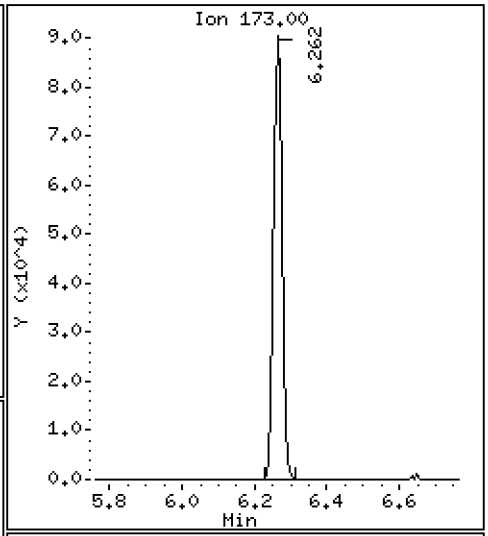
90 Bromoform Concentration: 49.1427 ug/L

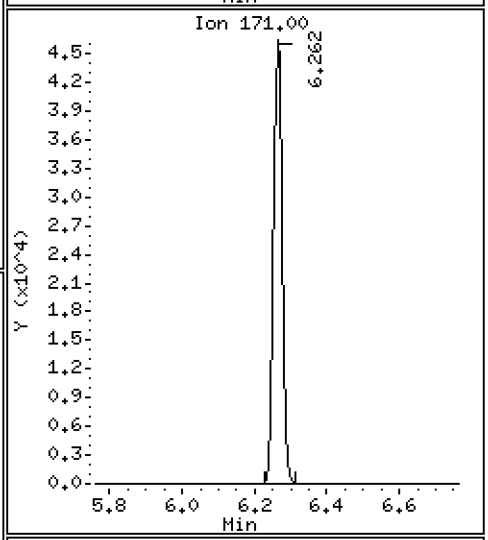


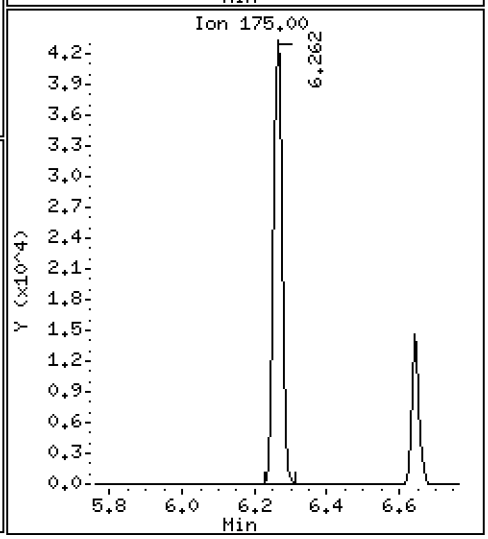












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 94

Date : 25-OCT-2016 00:52

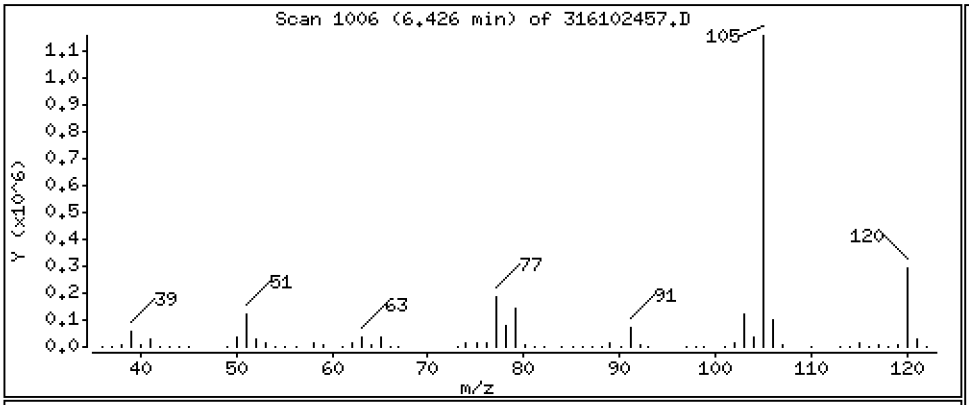
Client ID: Instrument: ms03.i

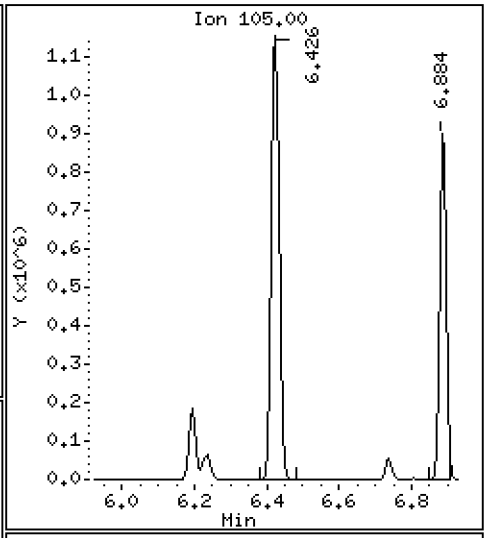
Sample Info: 1237;;1;1;4;;;

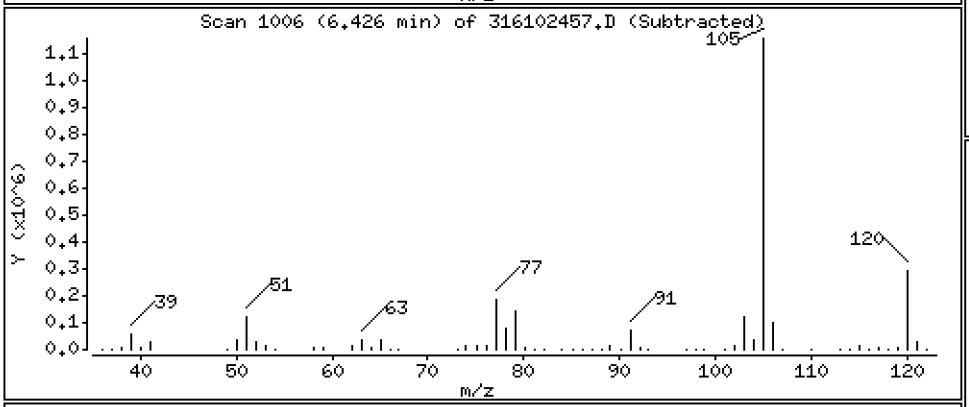
Purge Volume: 5.0 Operator: CJG

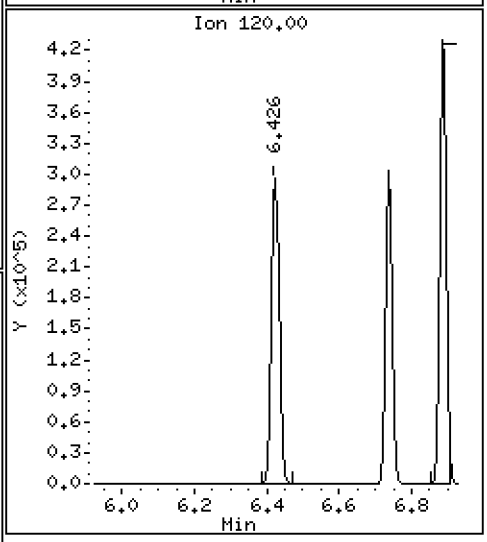
Column phase: DB-VRX Column diameter: 0.25

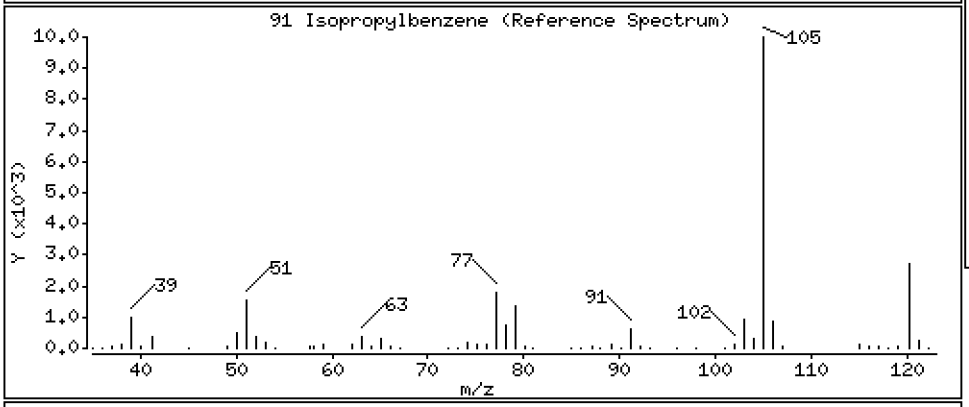
91 Isopropylbenzene Concentration: 48.9168 ug/L

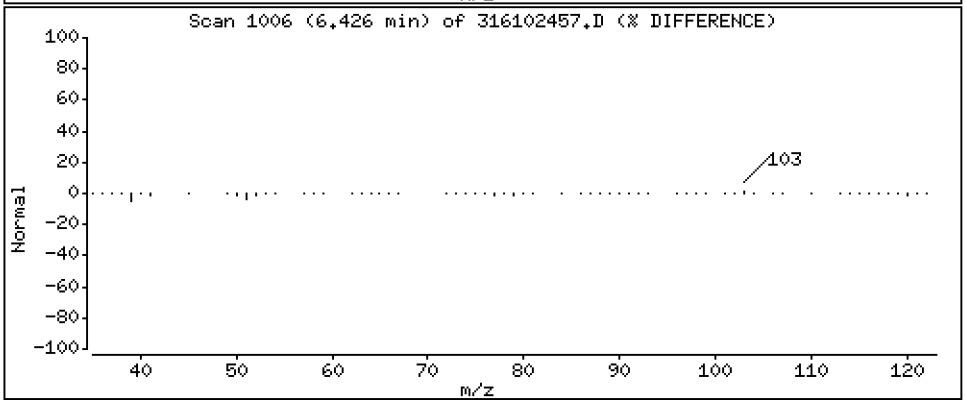












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 95

Date : 25-OCT-2016 00:52

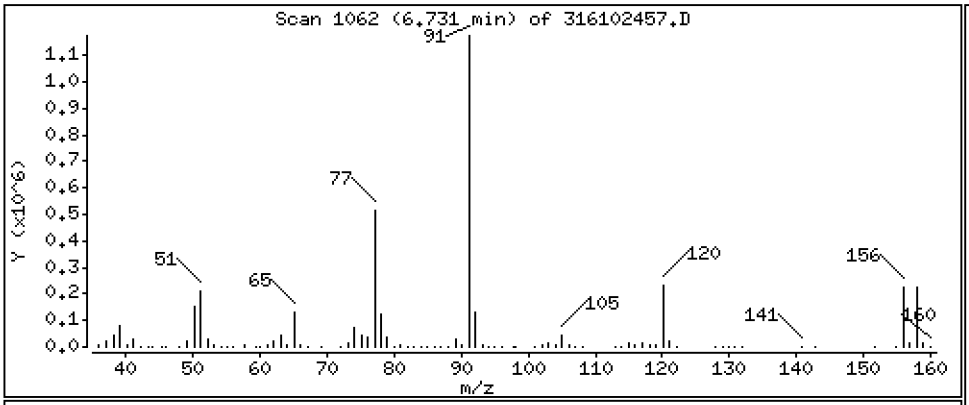
Client ID: Instrument: ms03.i

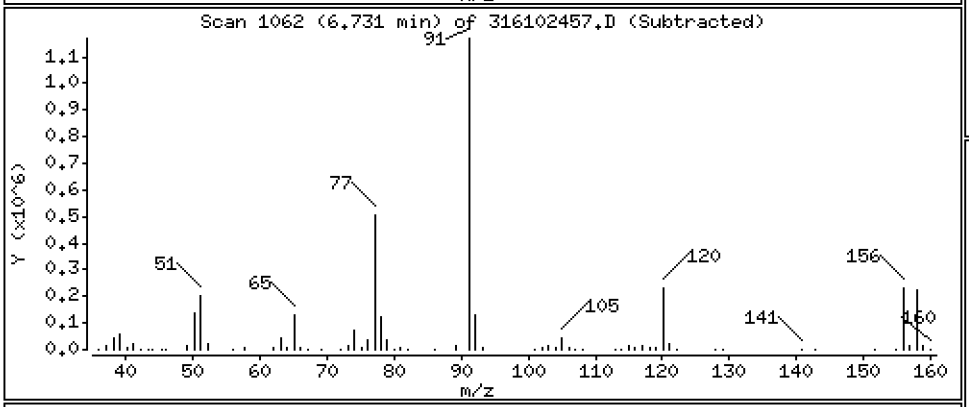
Sample Info: 1237;;1;1;4;;;

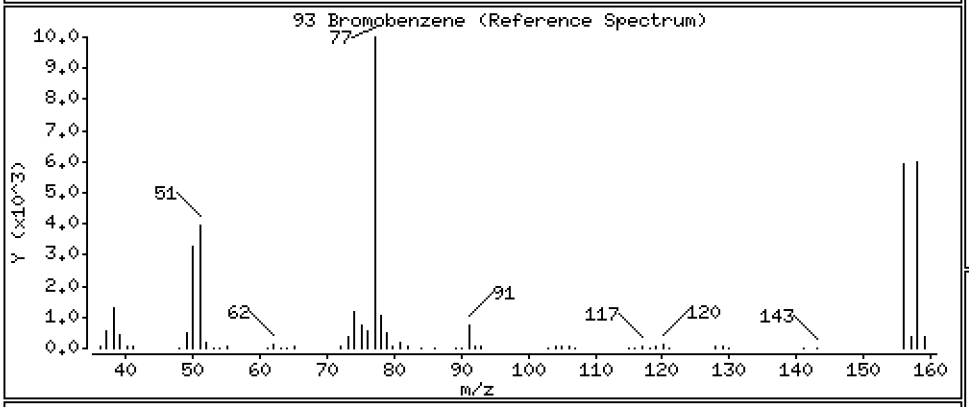
Purge Volume: 5.0 Operator: CJG

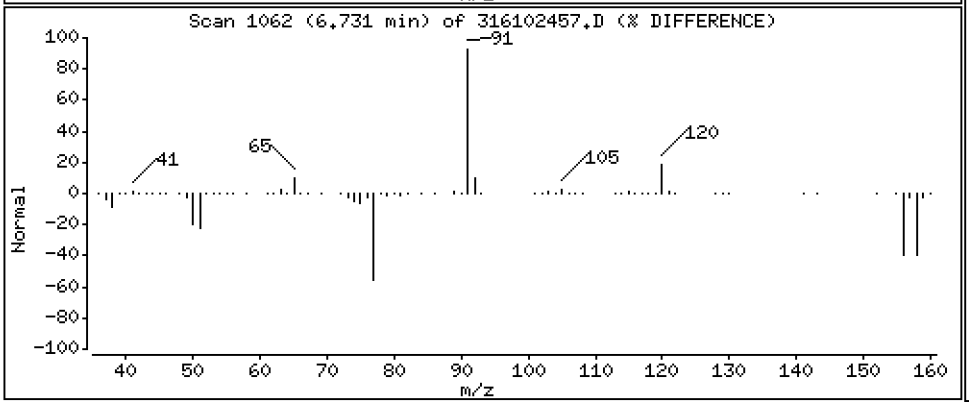
Column phase: DB-VRX Column diameter: 0.25

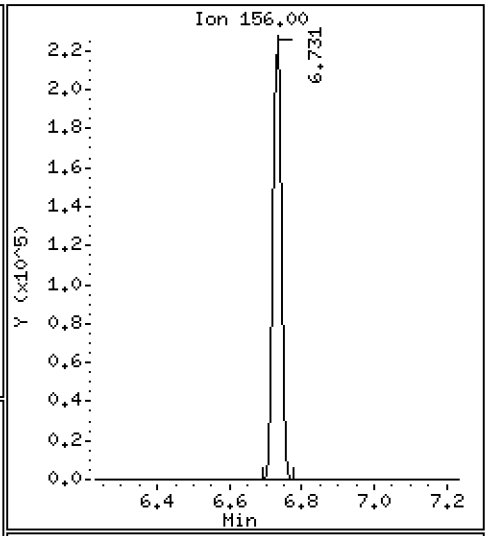
93 Bromobenzene Concentration: 49.2609 ug/L

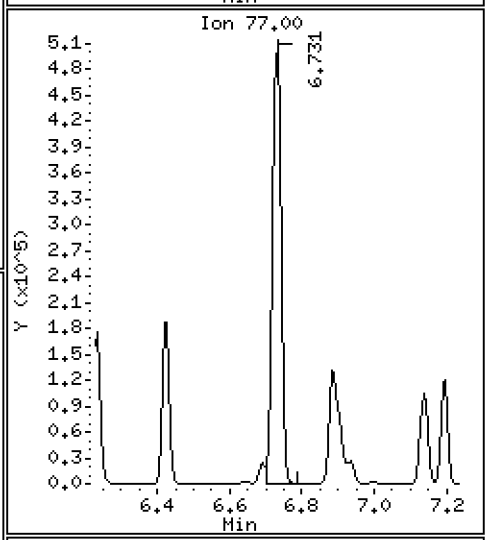


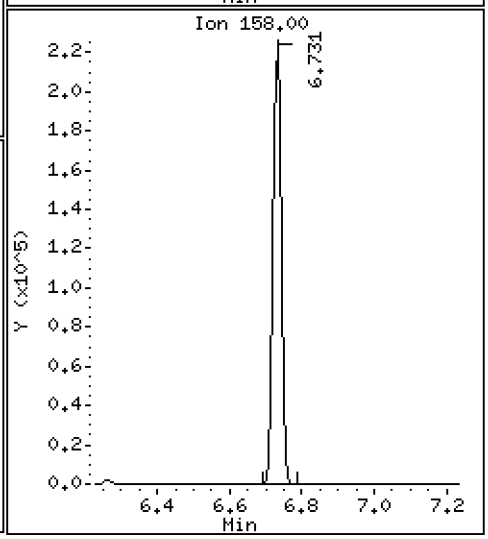












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 96

Date : 25-OCT-2016 00:52

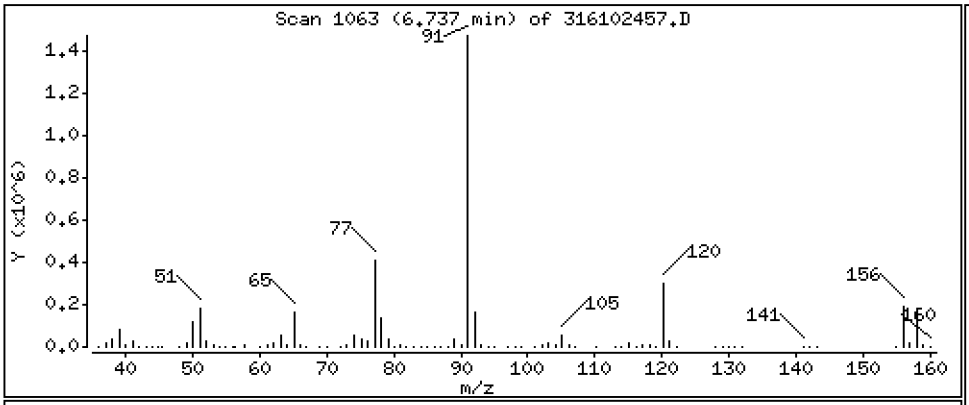
Client ID: Instrument: ms03.i

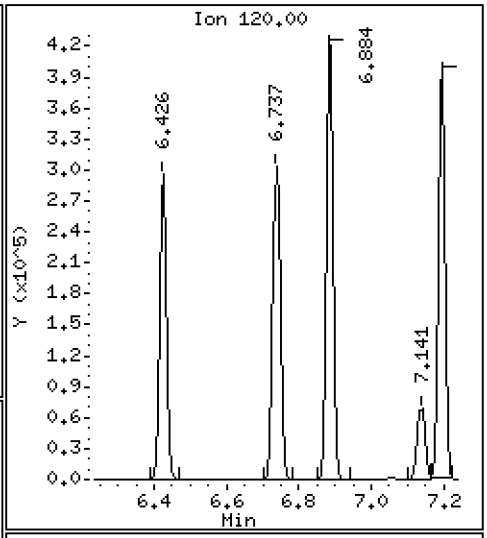
Sample Info: 1237;;1;1;4;;;

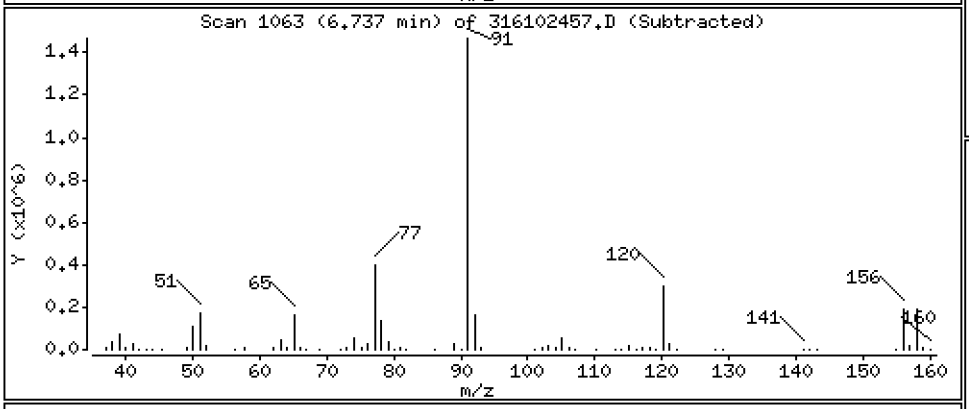
Purge Volume: 5.0 Operator: CJG

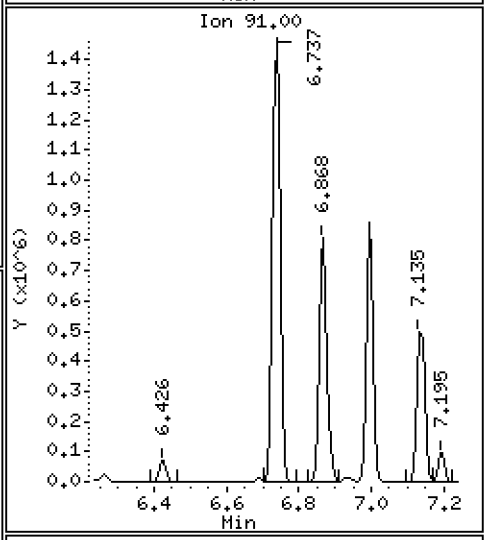
Column phase: DB-VRX Column diameter: 0.25

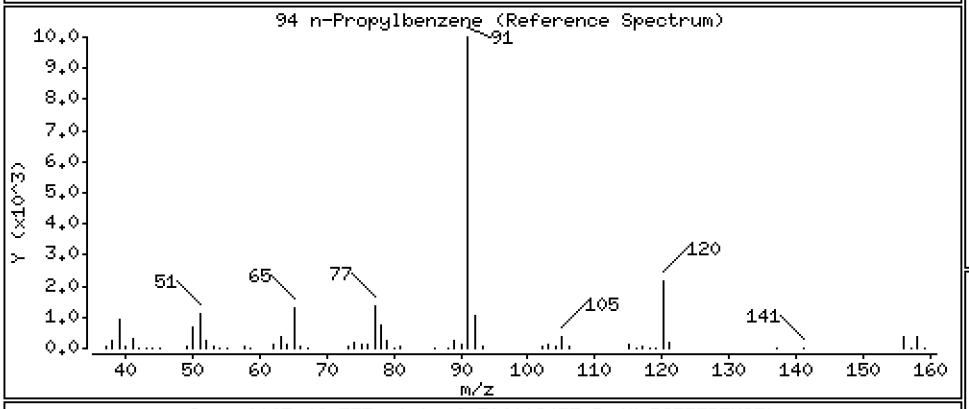
94 n-Propylbenzene Concentration: 48.9344 ug/L

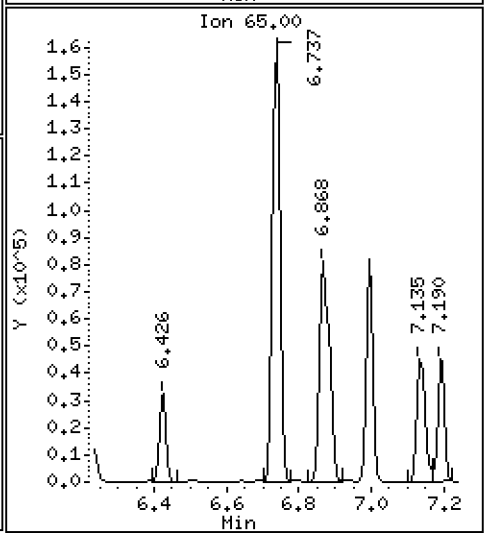


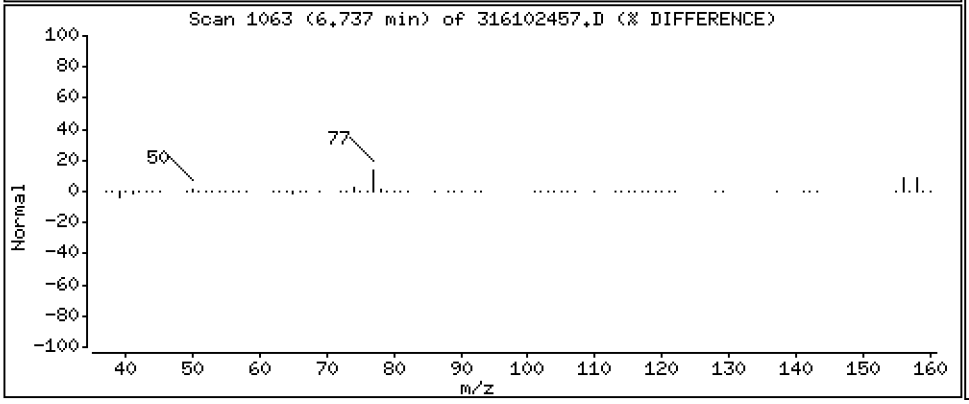












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 97

Date : 25-OCT-2016 00:52

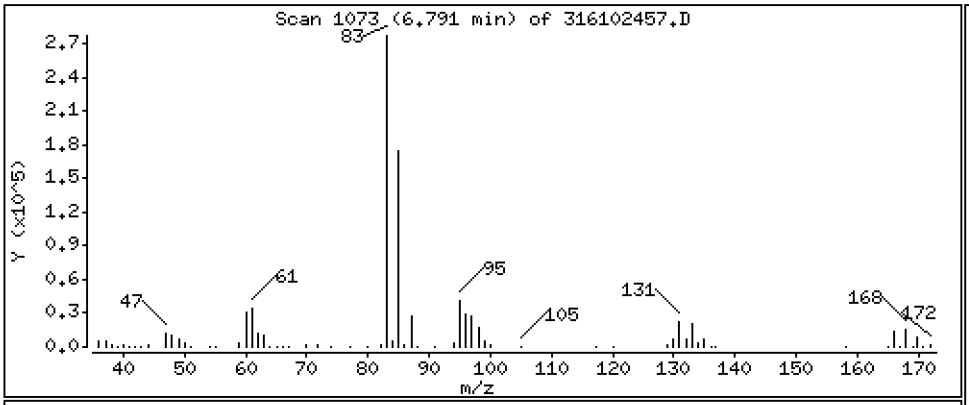
Client ID: Instrument: ms03.i

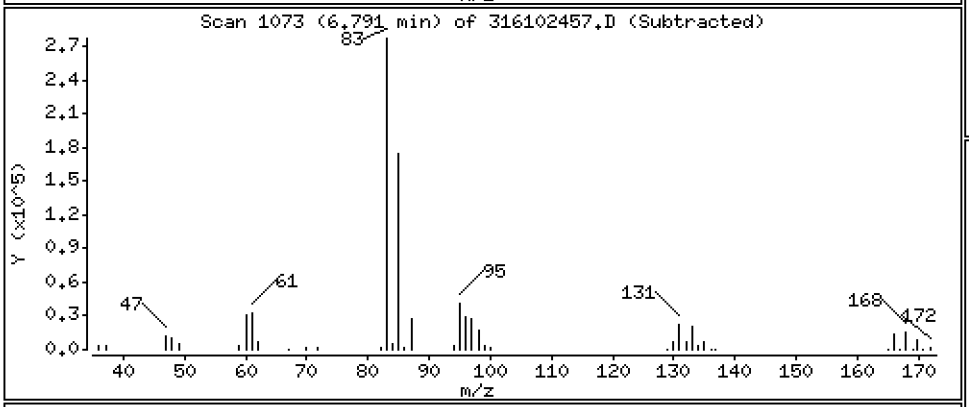
Sample Info: 1237;;1;1;4;;;

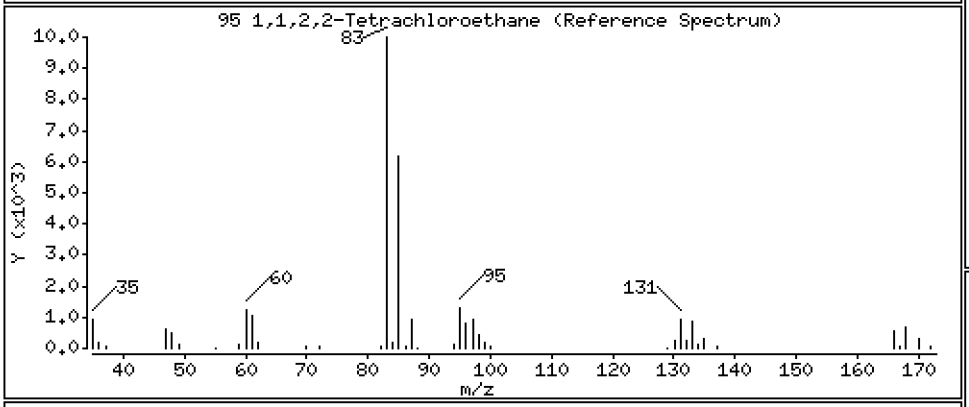
Purge Volume: 5.0 Operator: CJG

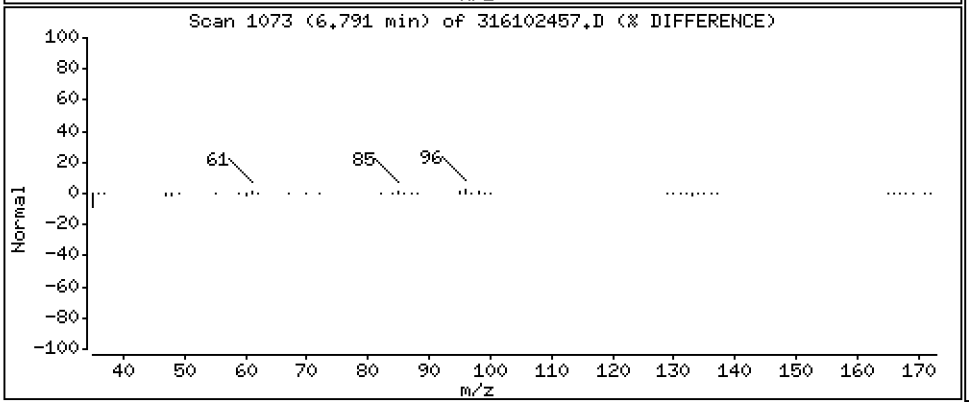
Column phase: DB-VRX Column diameter: 0.25

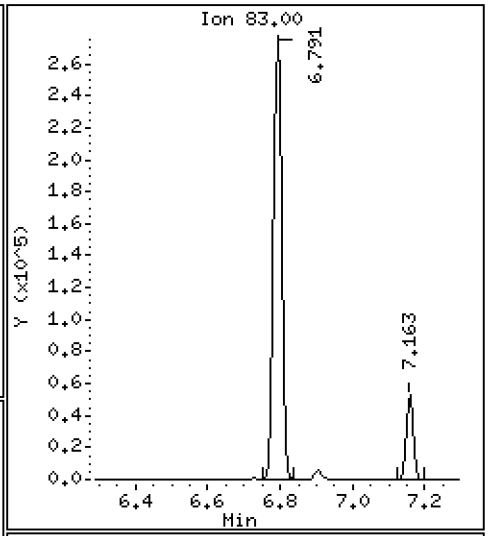
95 1,1,2,2-Tetrachloroethane Concentration: 50.6198 ug/L

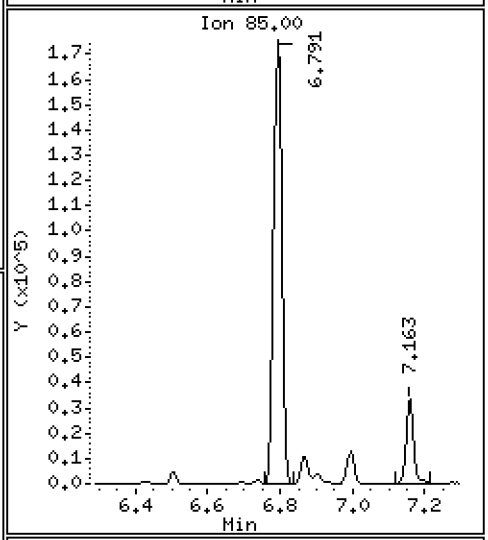


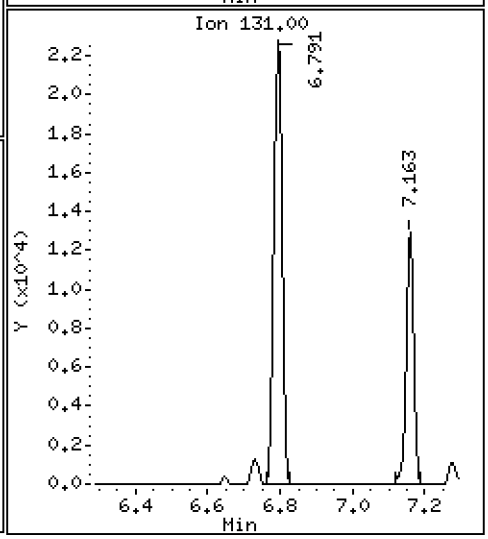












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 98

Date : 25-OCT-2016 00:52

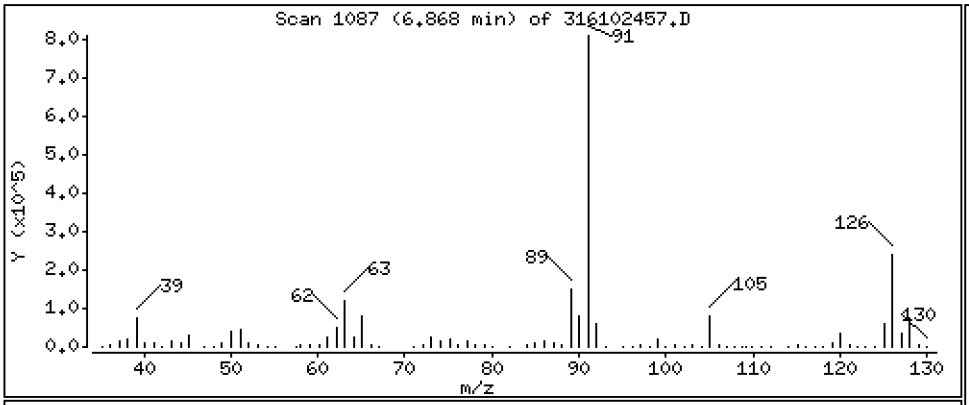
Client ID: Instrument: ms03.i

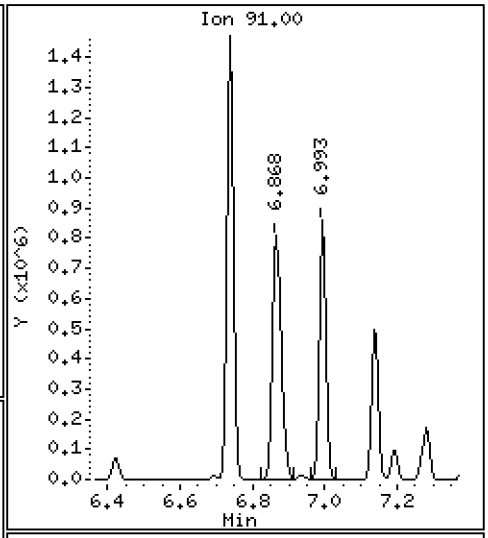
Sample Info: 1237;;1;1;4;;;

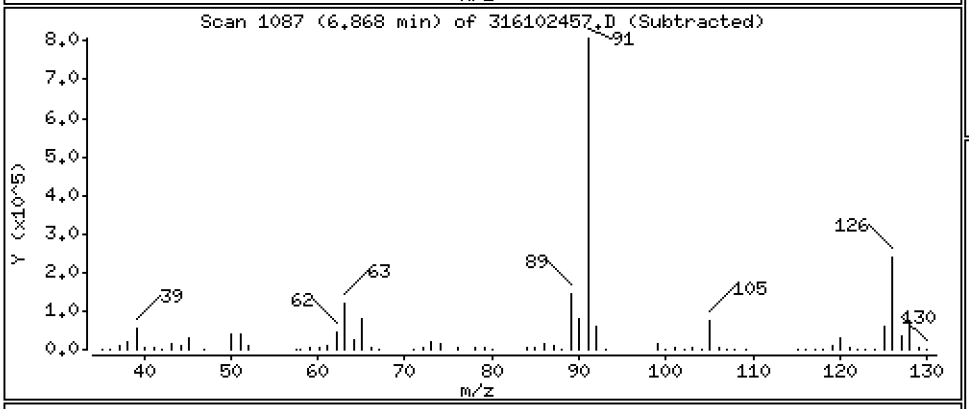
Purge Volume: 5.0 Operator: CJG

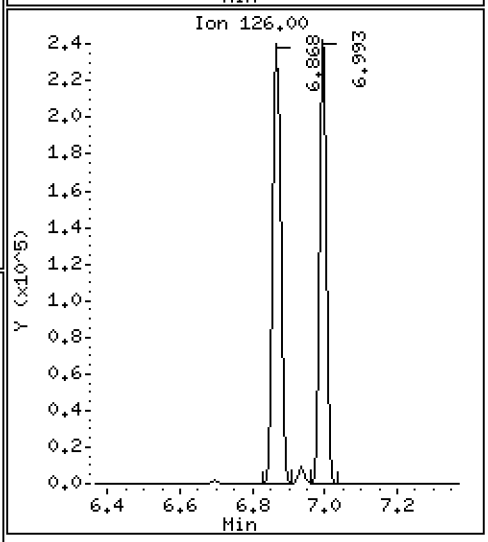
Column phase: DB-VRX Column diameter: 0.25

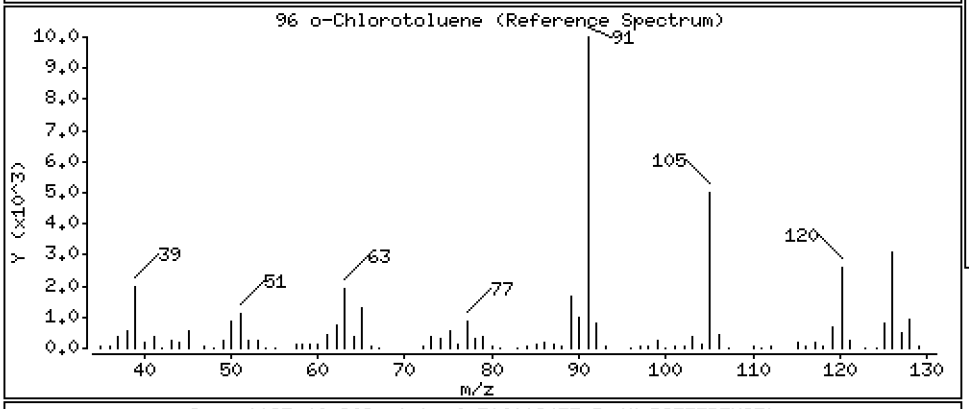
96 o-Chlorotoluene Concentration: 48.9687 ug/L

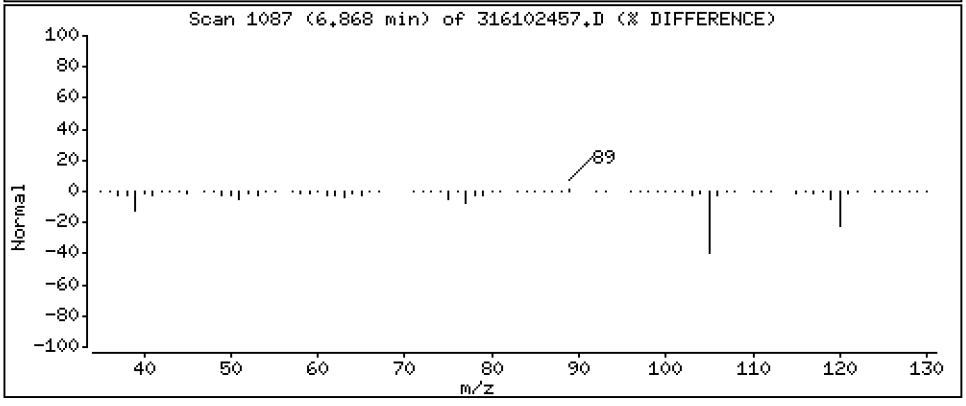












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 99

Date : 25-OCT-2016 00:52

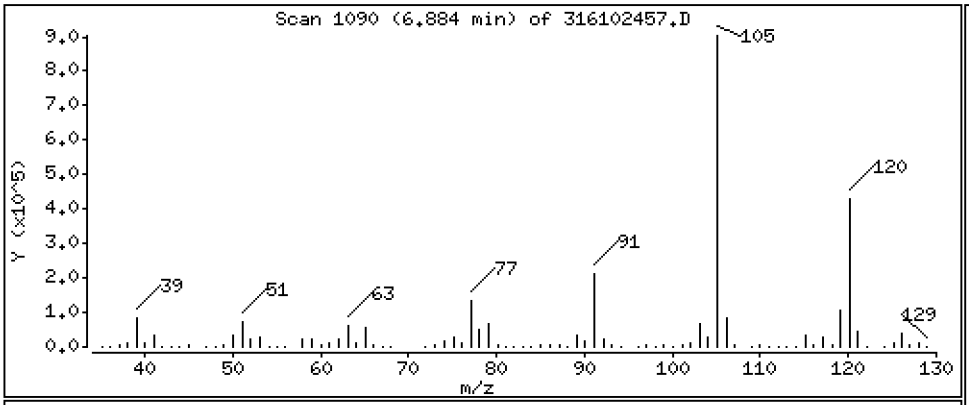
Client ID: Instrument: ms03.i

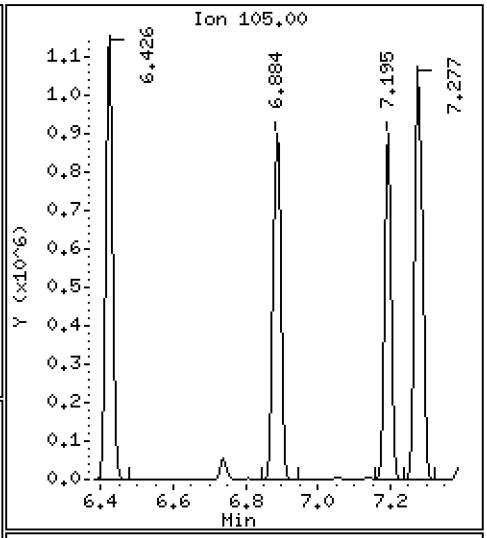
Sample Info: 1237;;1;1;4;;;

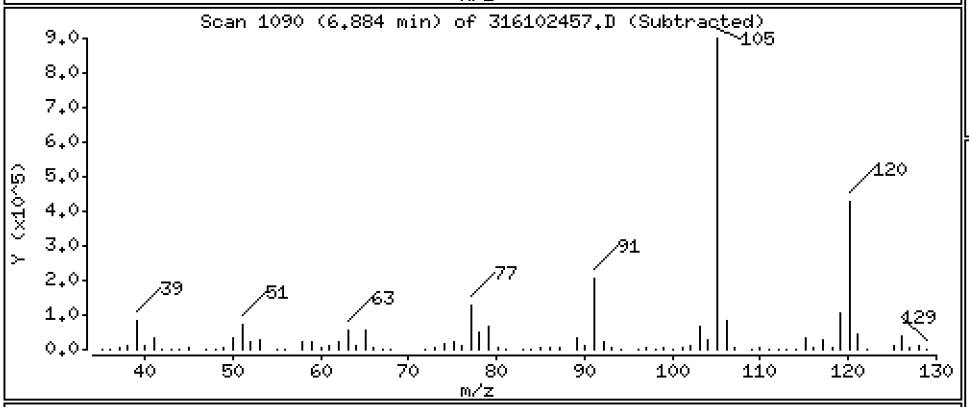
Purge Volume: 5.0 Operator: CJG

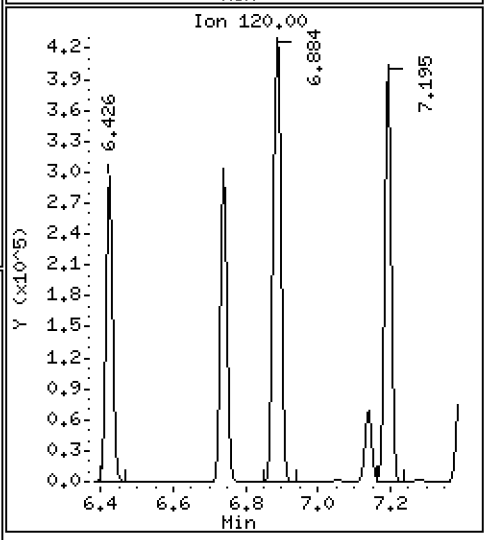
Column phase: DB-VRX Column diameter: 0.25

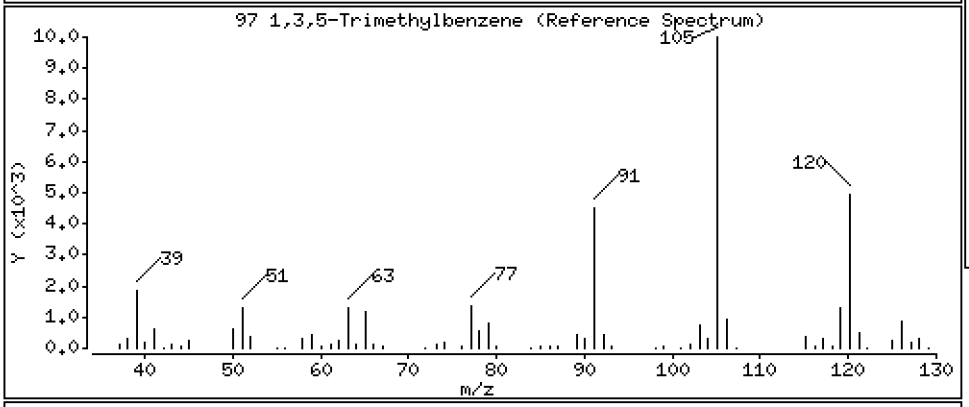
97 1,3,5-Trimethylbenzene Concentration: 48.8489 ug/L

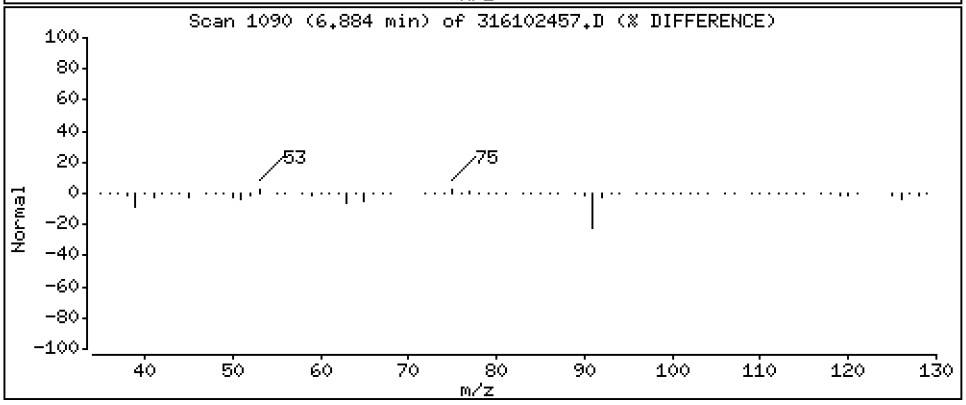












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 100

Date : 25-OCT-2016 00:52

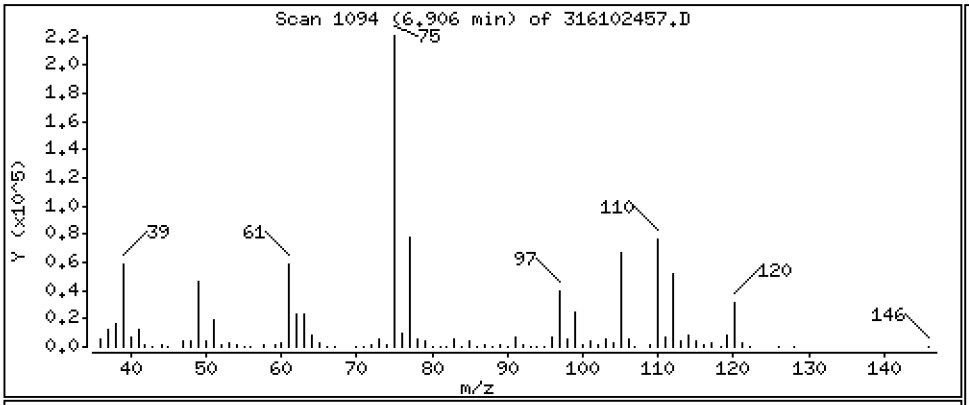
Client ID: Instrument: ms03.i

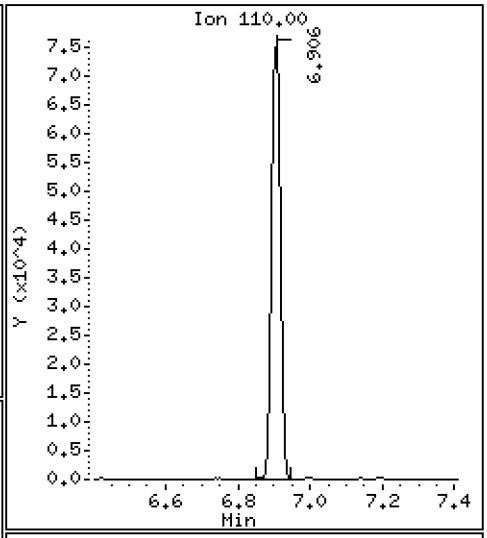
Sample Info: 1237;;1;1;4;;;

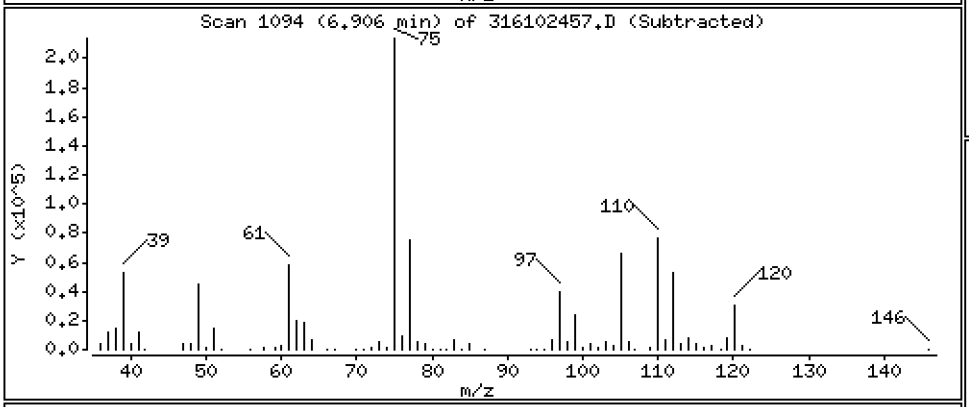
Purge Volume: 5.0 Operator: CJG

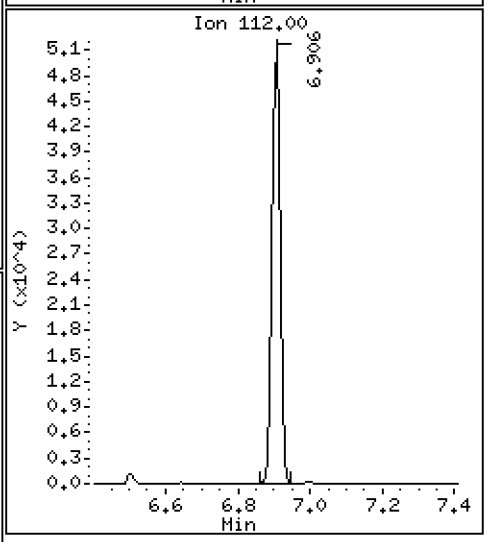
Column phase: DB-VRX Column diameter: 0.25

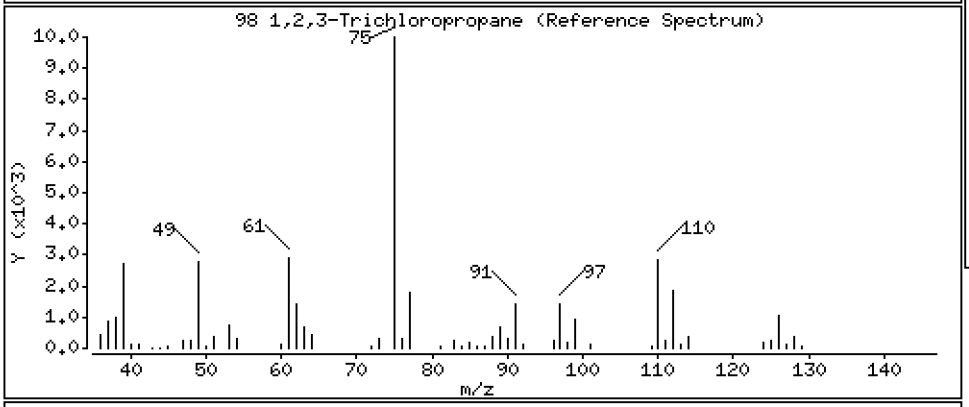
98 1,2,3-Trichloropropane Concentration: 50.6977 ug/L

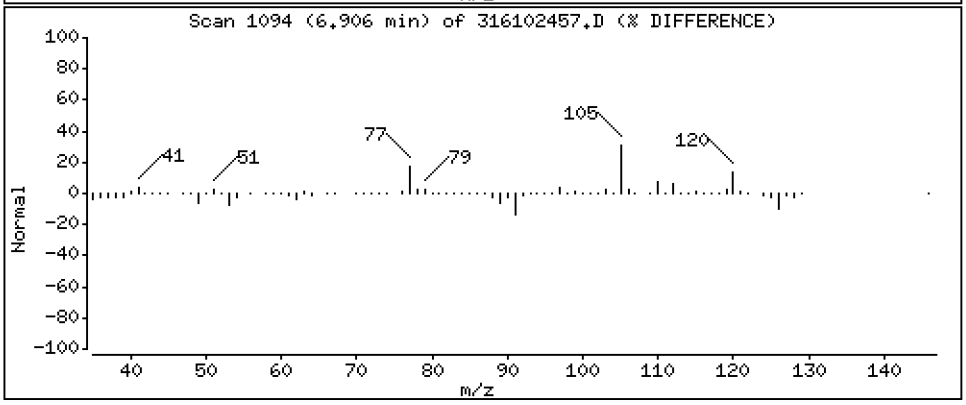












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 101

Date : 25-OCT-2016 00:52

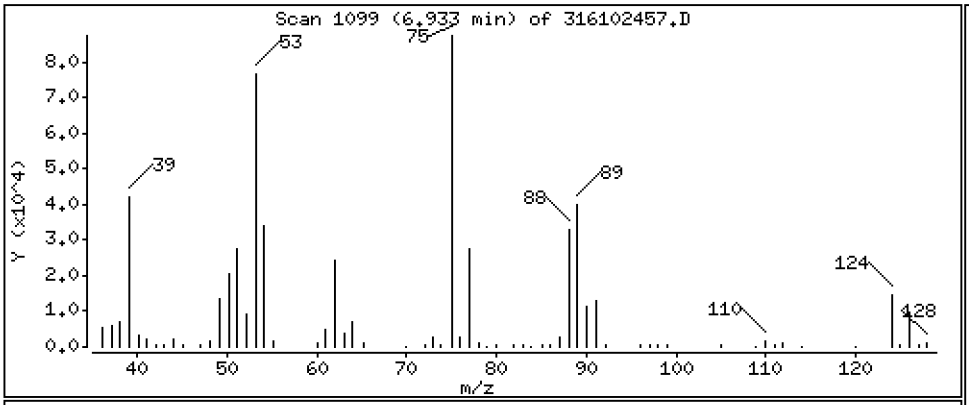
Client ID: Instrument: ms03.i

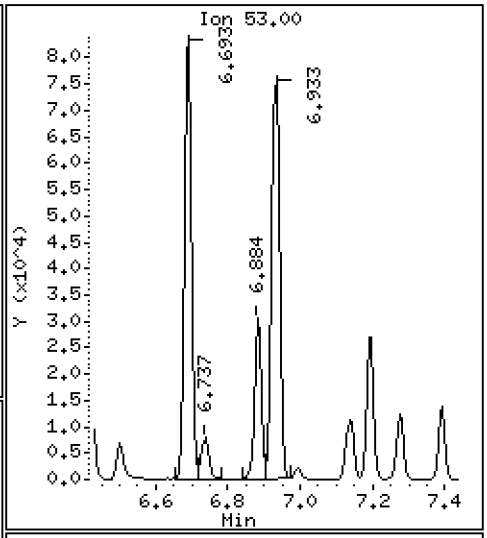
Sample Info: 1237;;1;1;4;;;

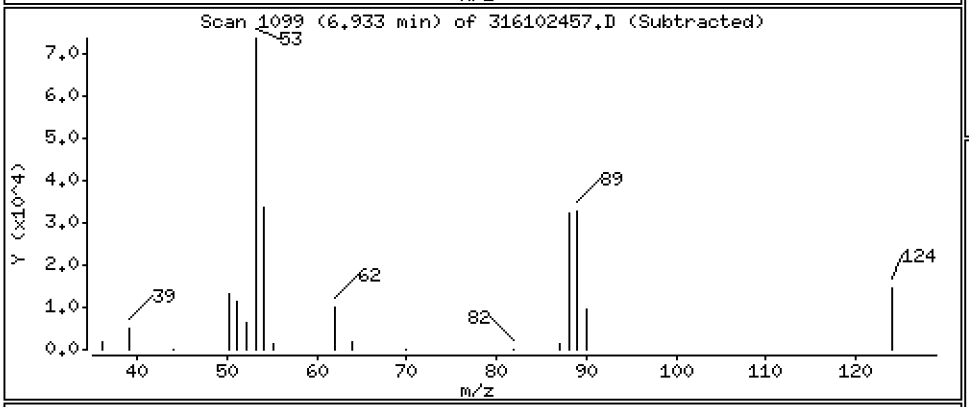
Purge Volume: 5.0 Operator: CJG

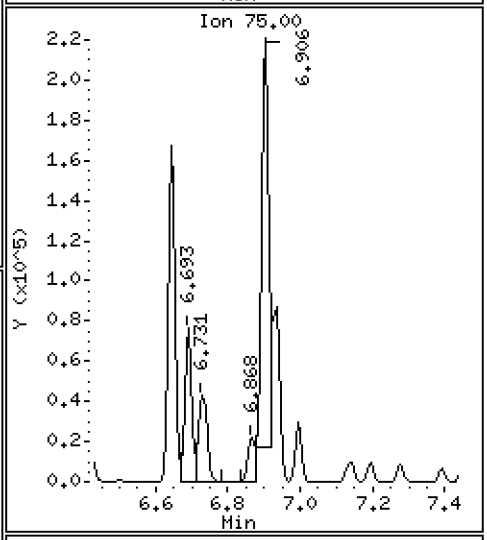
Column phase: DB-VRX Column diameter: 0.25

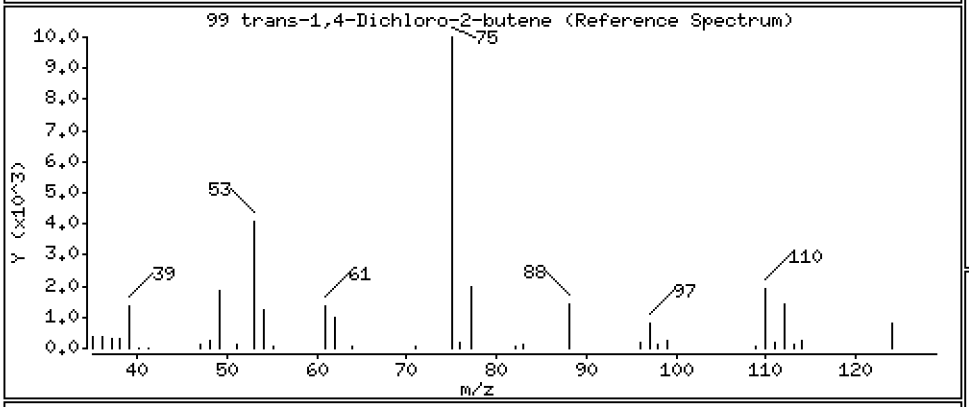
99 trans-1,4-Dichloro-2-butene Concentration: 49.3615 ug/L

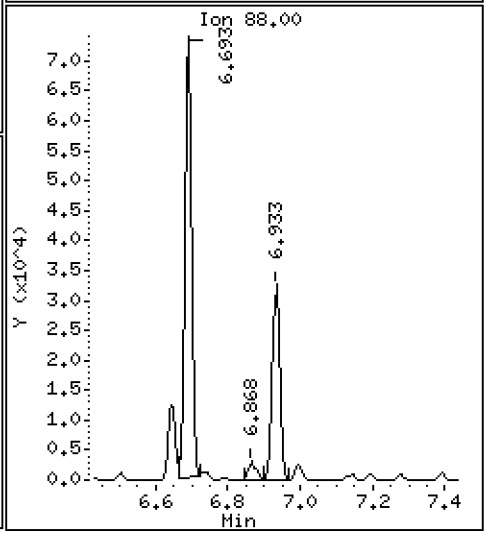


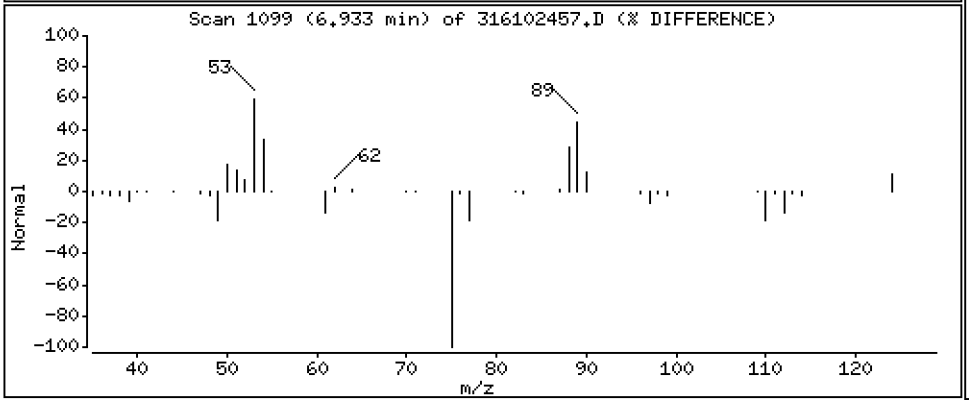












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 102

Date : 25-OCT-2016 00:52

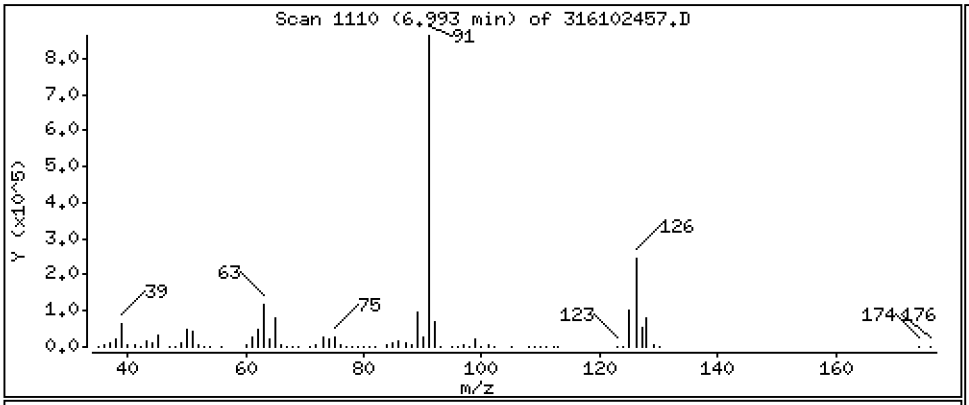
Client ID: Instrument: ms03.i

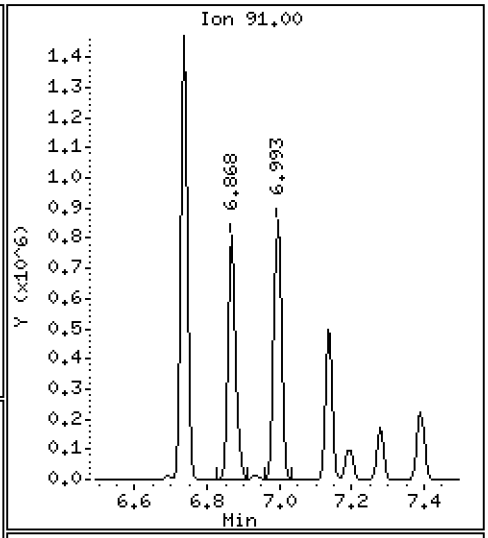
Sample Info: 1237;;1;1;4;;;

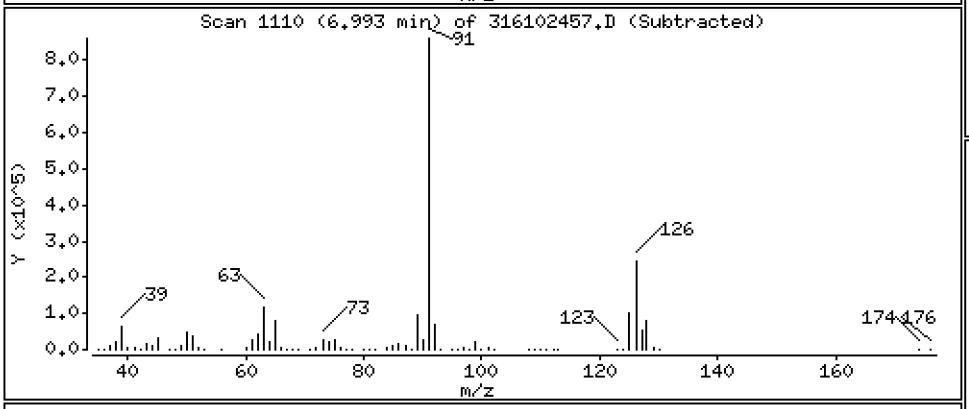
Purge Volume: 5.0 Operator: CJG

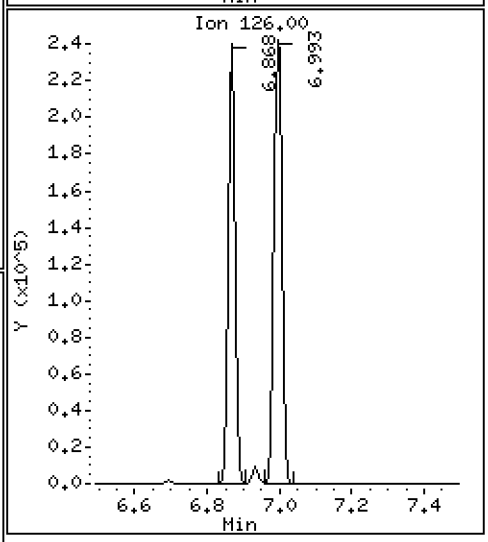
Column phase: DB-VRX Column diameter: 0.25

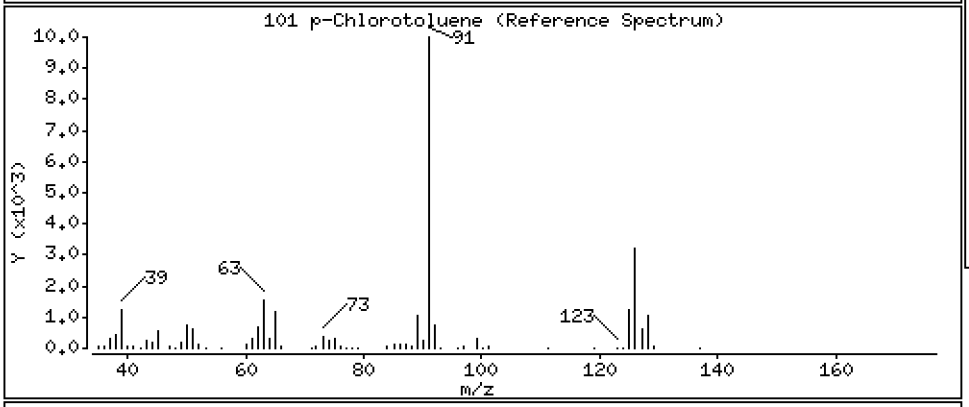
101 p-Chlorotoluene Concentration: 48.7605 ug/L

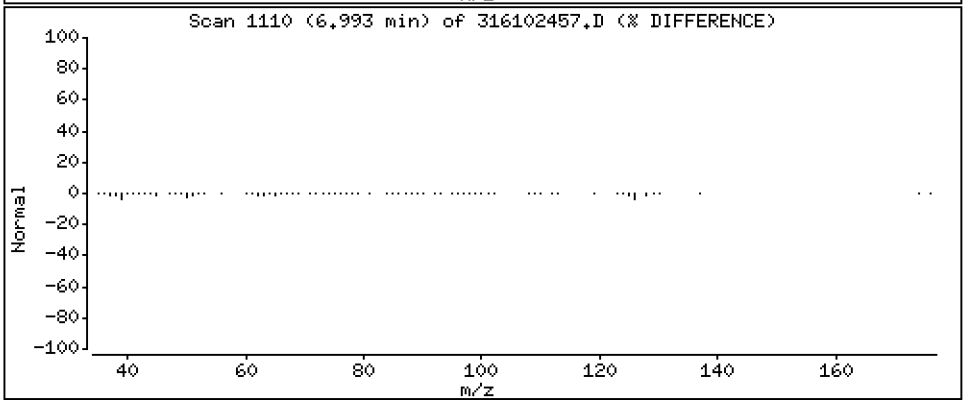












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 103

Date : 25-OCT-2016 00:52

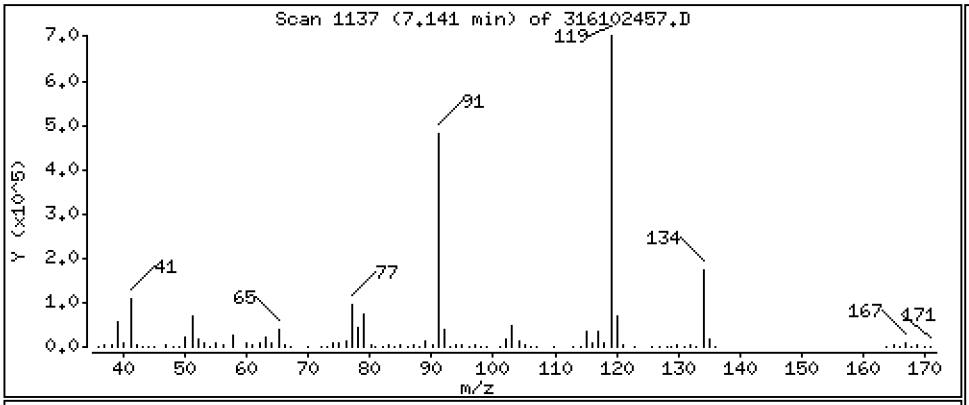
Client ID: Instrument: ms03.i

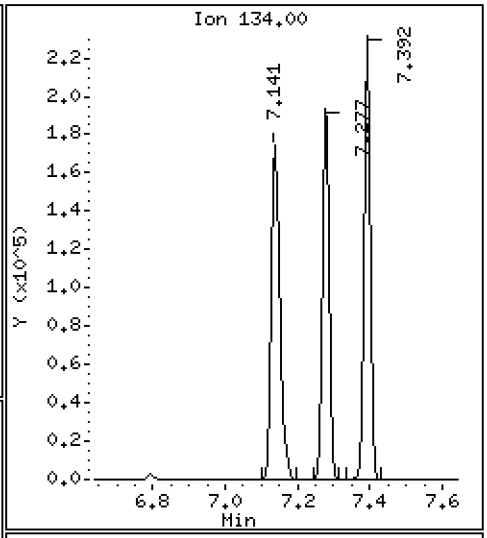
Sample Info: 1237;;1;1;4;;;

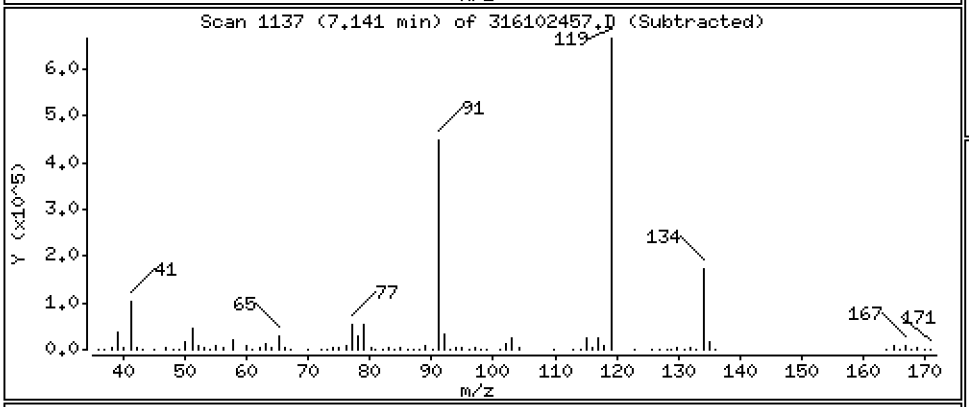
Purge Volume: 5.0 Operator: CJG

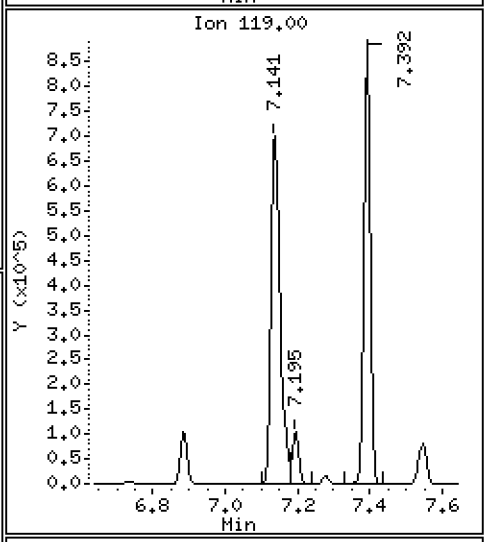
Column phase: DB-VRX Column diameter: 0.25

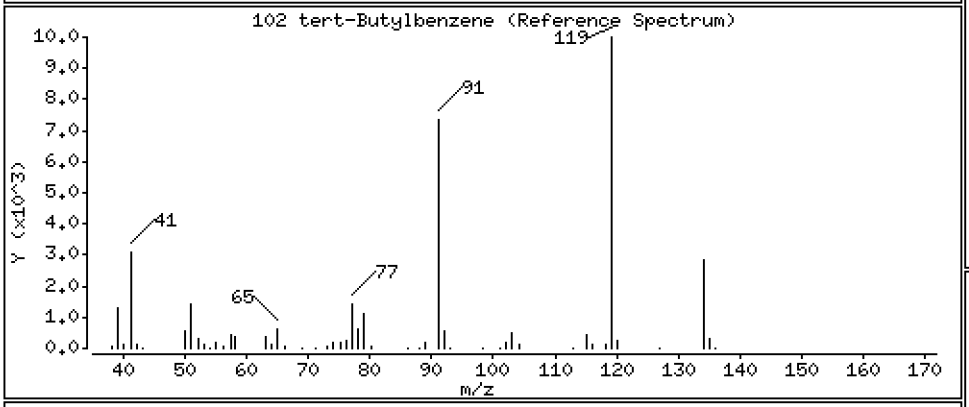
102 tert-Butylbenzene Concentration: 48.5825 ug/L

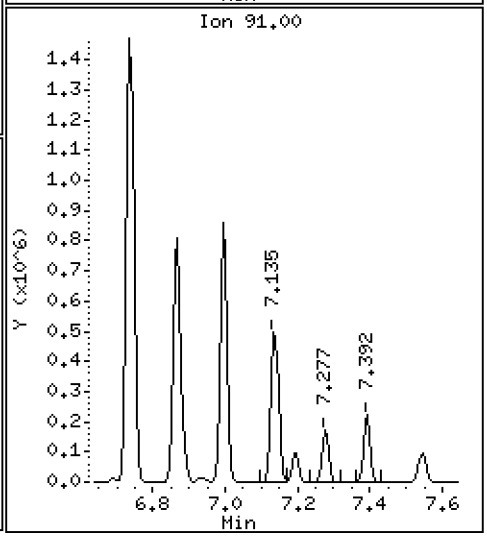


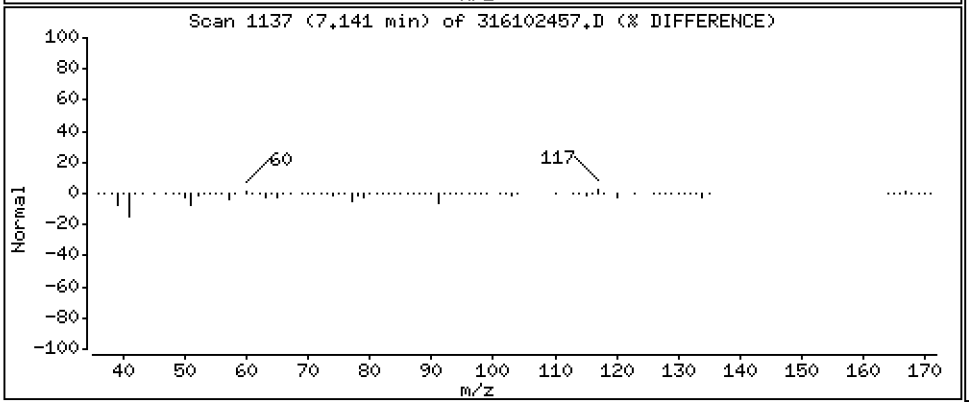












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 104

Date : 25-OCT-2016 00:52

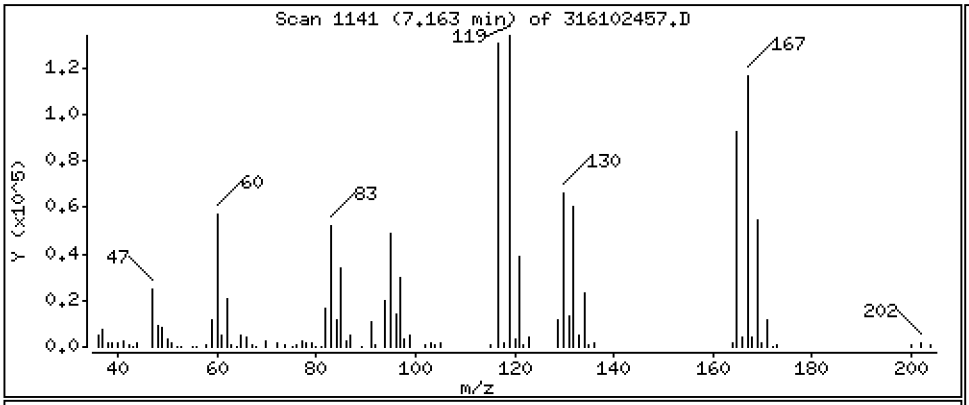
Client ID: Instrument: ms03.i

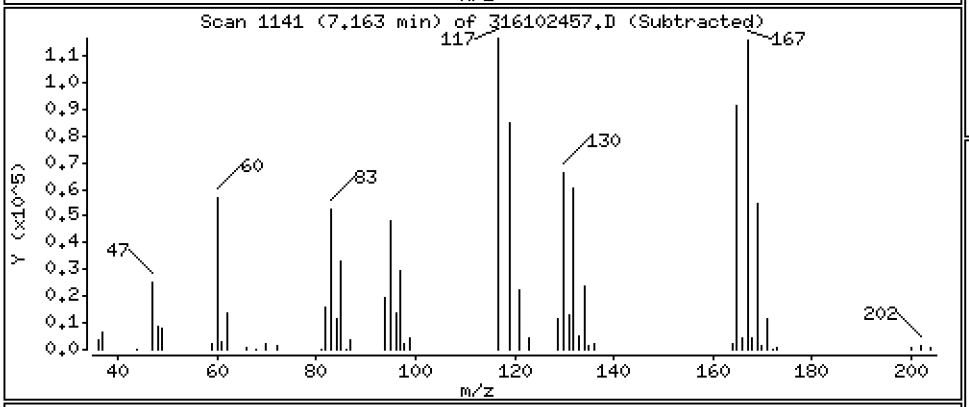
Sample Info: 1237;;1;1;4;;;

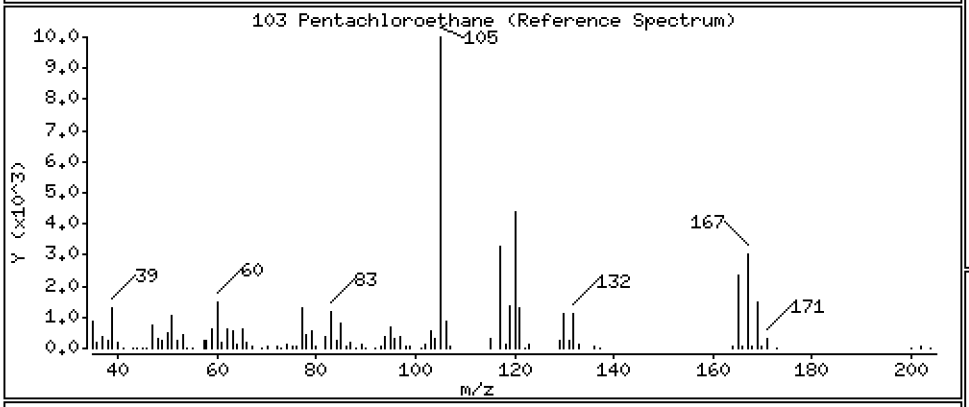
Purge Volume: 5.0 Operator: CJG

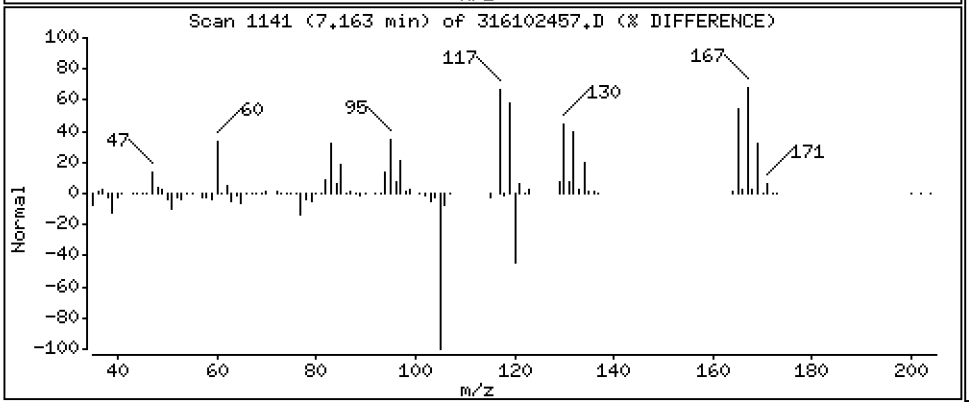
Column phase: DB-VRX Column diameter: 0.25

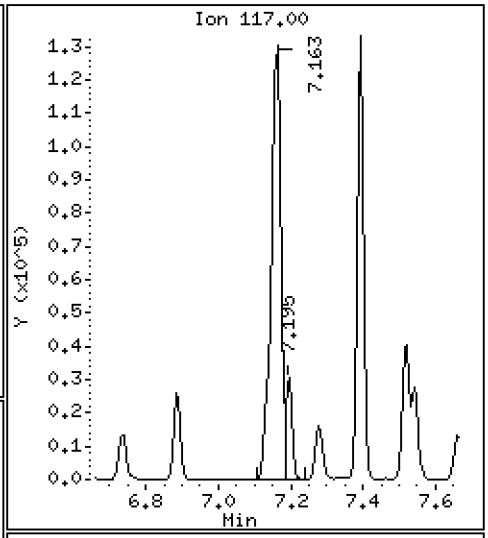
103 Pentachloroethane Concentration: 48.6575 ug/L

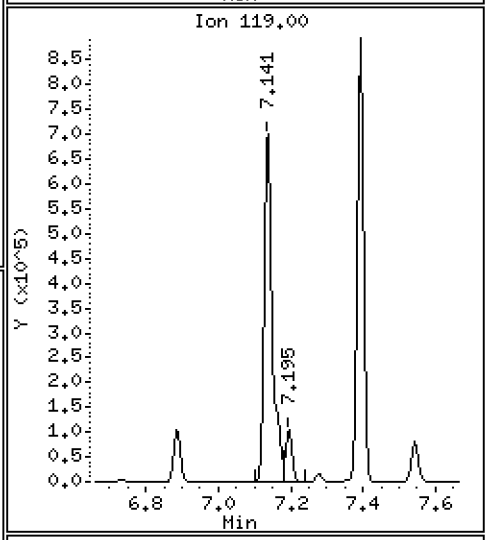


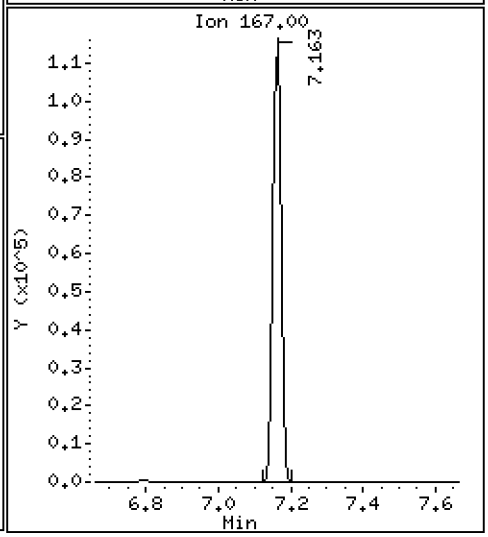












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 105

Date : 25-OCT-2016 00:52

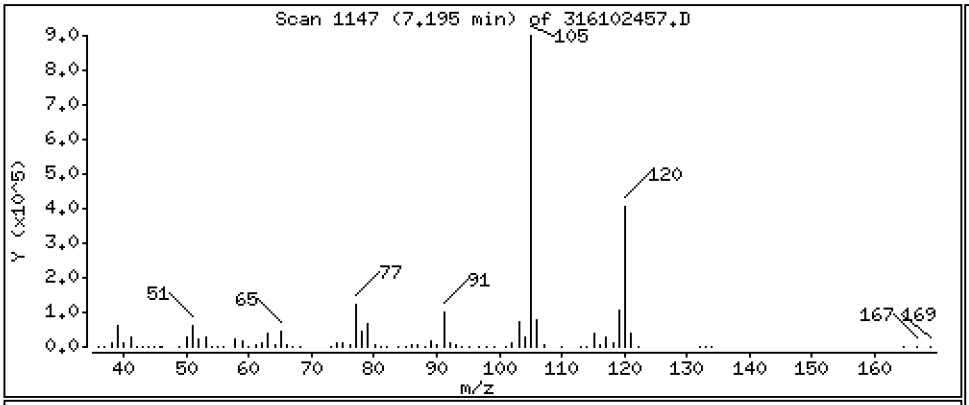
Client ID: Instrument: ms03.i

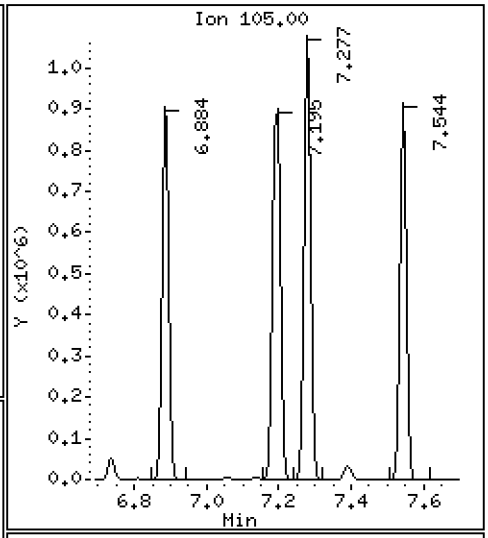
Sample Info: 1237;;1;1;4;;;

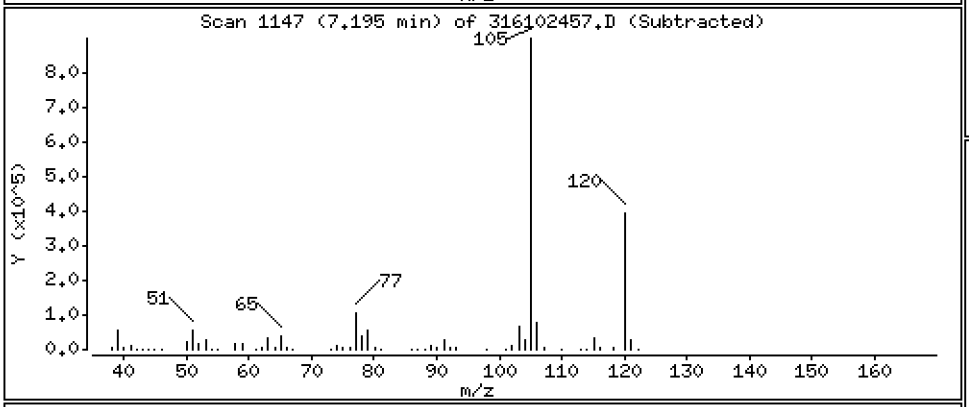
Purge Volume: 5.0 Operator: CJG

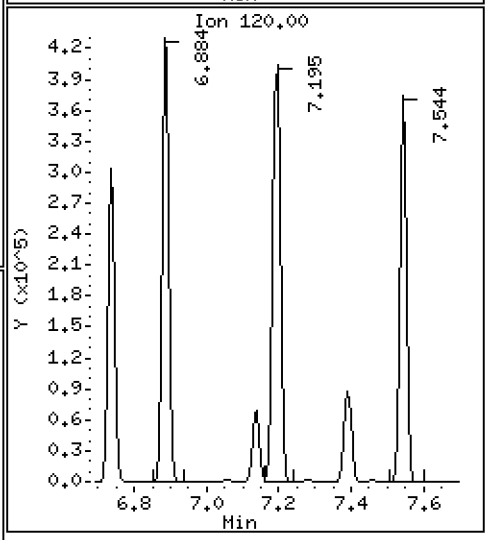
Column phase: DB-VRX Column diameter: 0.25

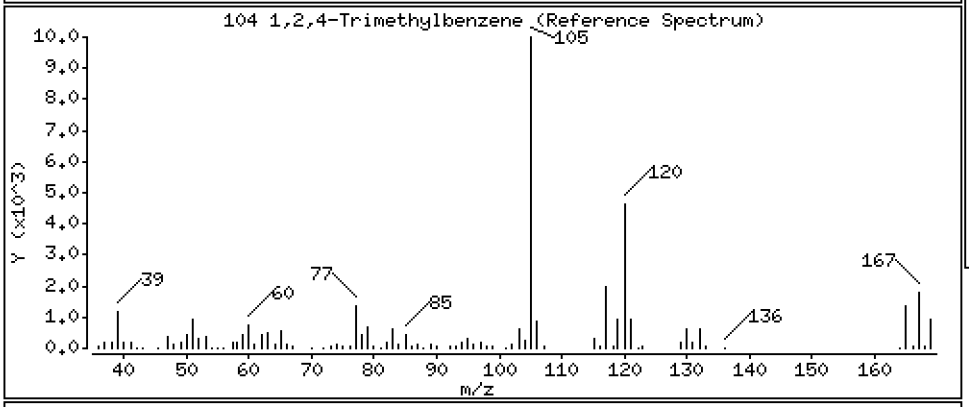
104 1,2,4-Trimethylbenzene Concentration: 48.7715 ug/L

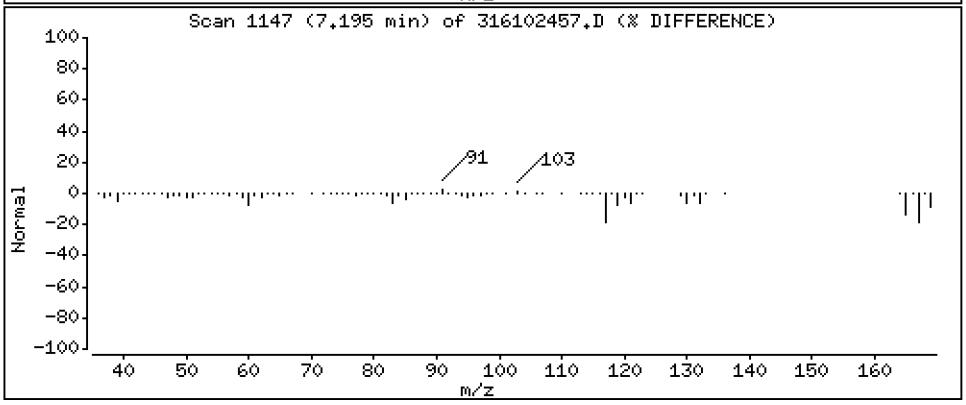












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 106

Date : 25-OCT-2016 00:52

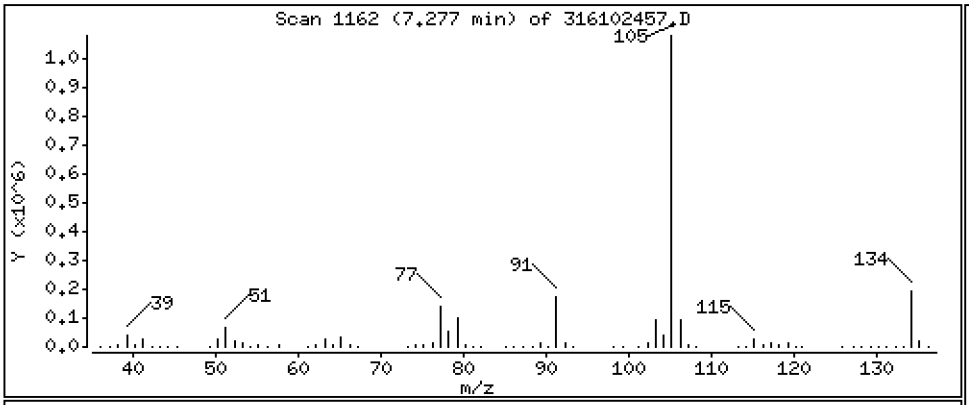
Client ID: Instrument: ms03.i

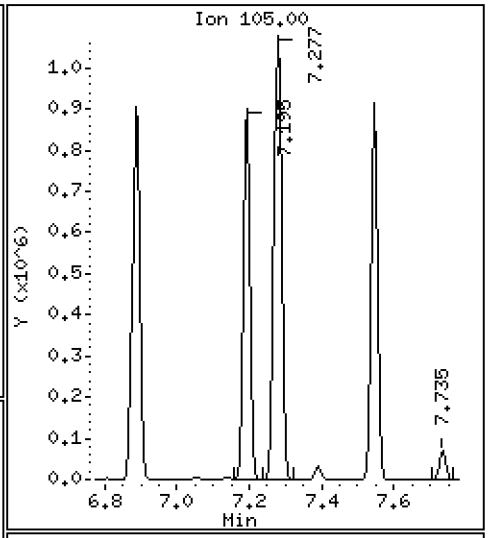
Sample Info: 1237;;1;1;4;;;

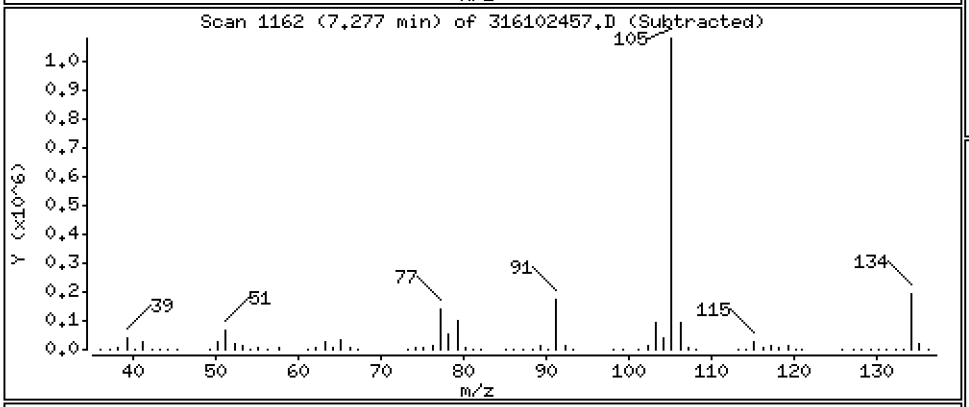
Purge Volume: 5.0 Operator: CJG

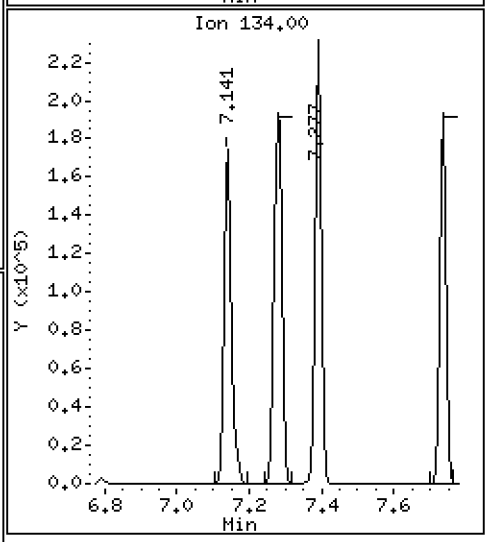
Column phase: DB-VRX Column diameter: 0.25

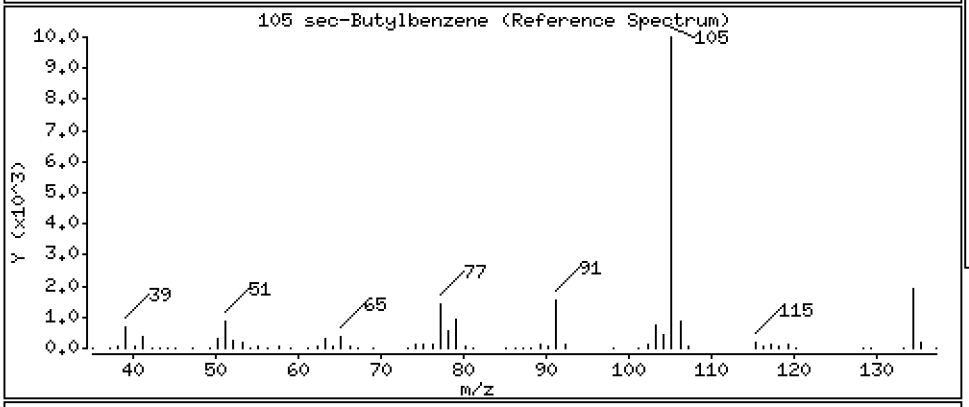
105 sec-Butylbenzene Concentration: 48.1786 ug/L

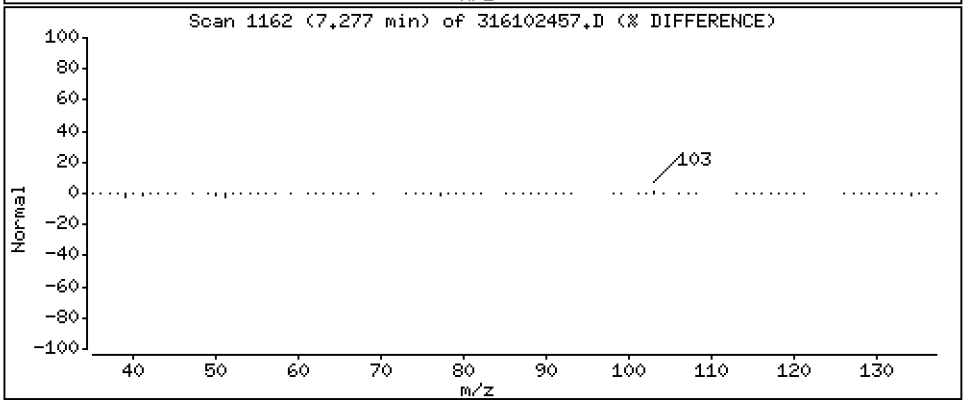












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 107

Date : 25-OCT-2016 00:52

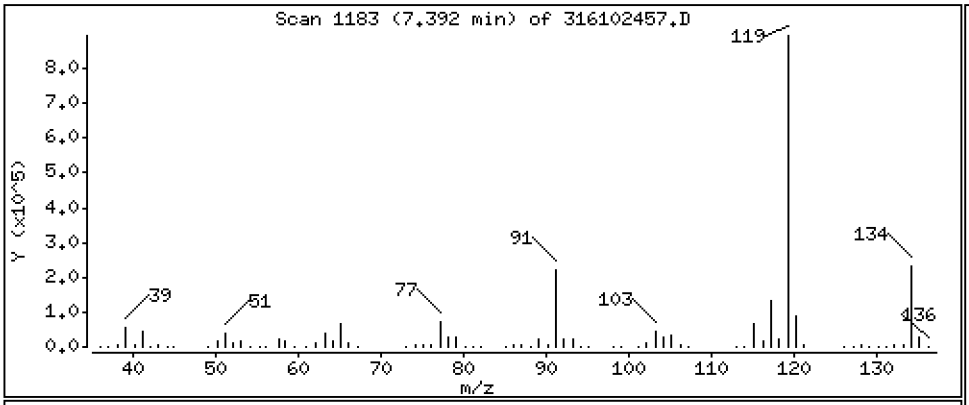
Client ID: Instrument: ms03.i

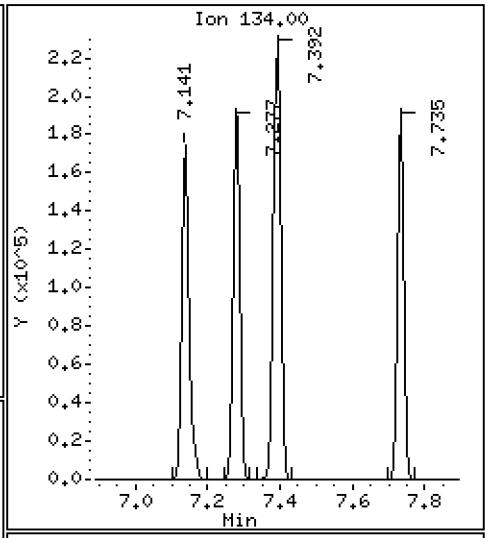
Sample Info: 1237;;1;1;4;;;

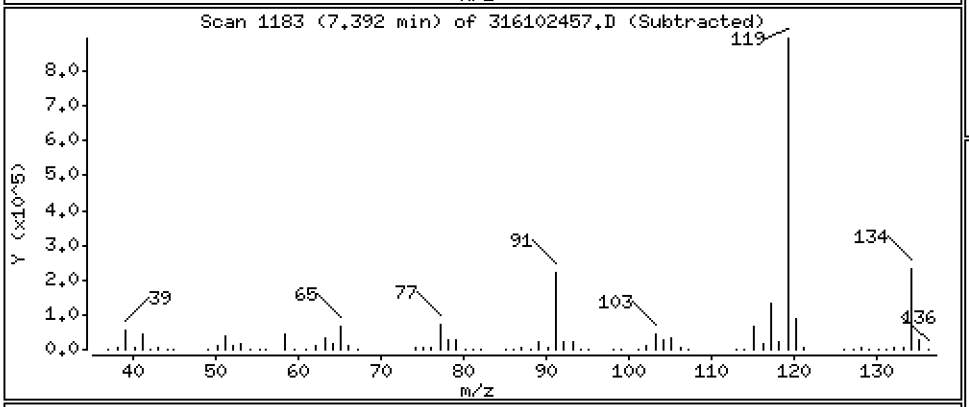
Purge Volume: 5.0 Operator: CJG

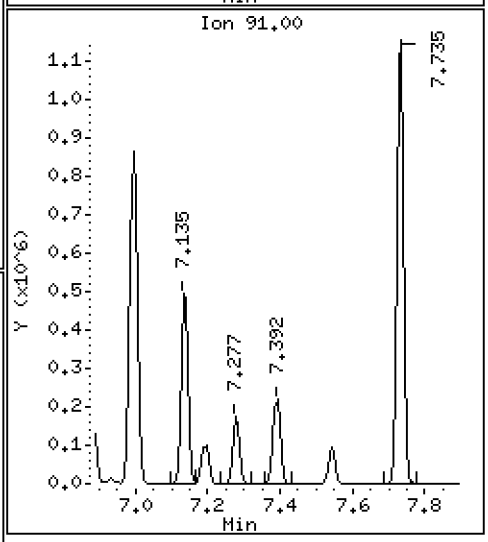
Column phase: DB-VRX Column diameter: 0.25

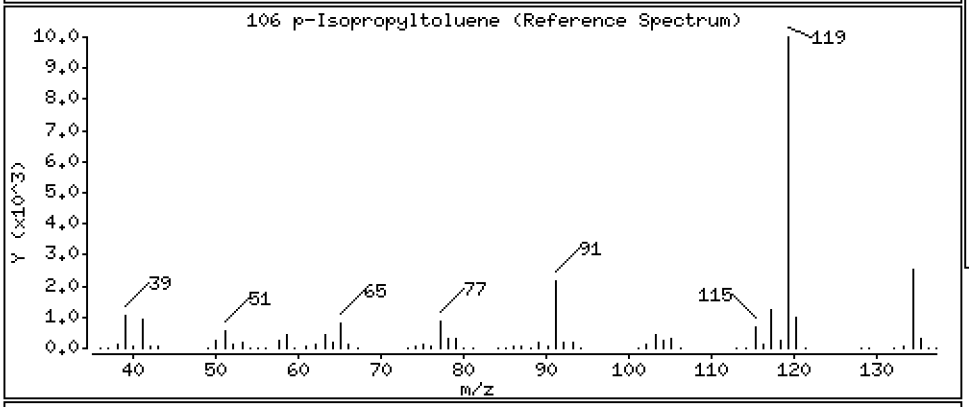
106 p-Isopropyltoluene Concentration: 48.3429 ug/L

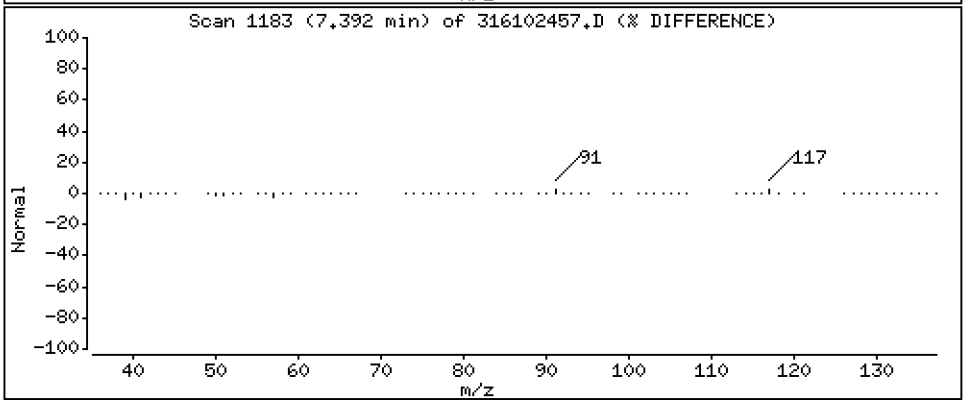












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 108

Date : 25-OCT-2016 00:52

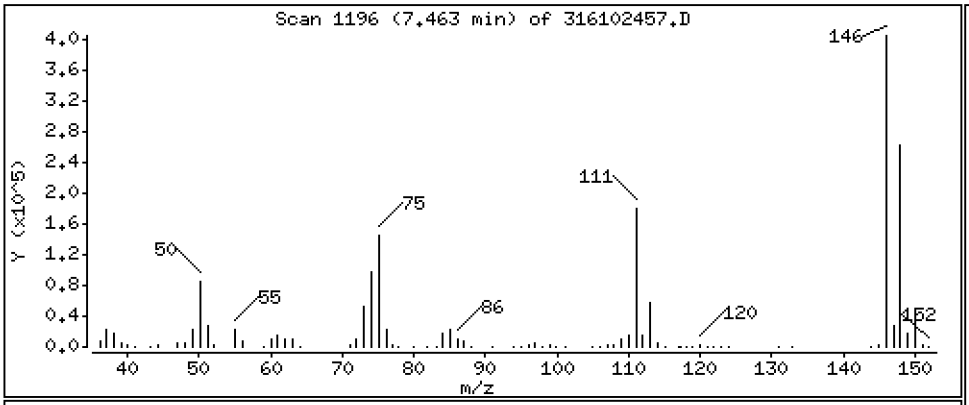
Client ID: Instrument: ms03.i

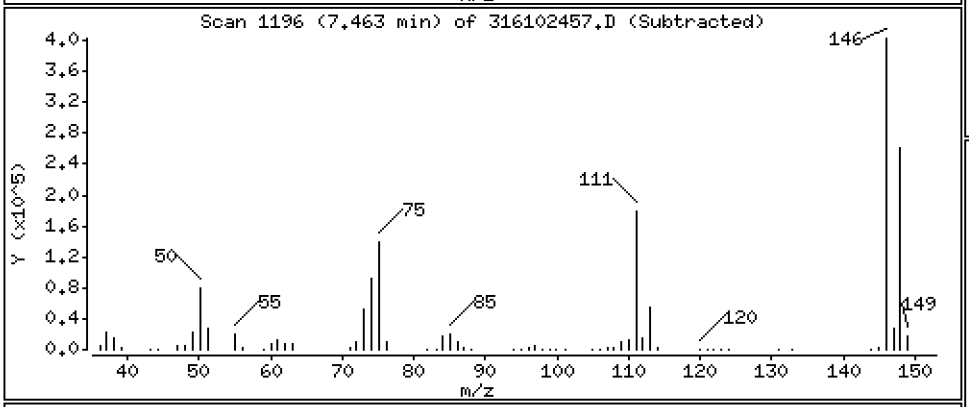
Sample Info: 1237;;1;1;4;;;

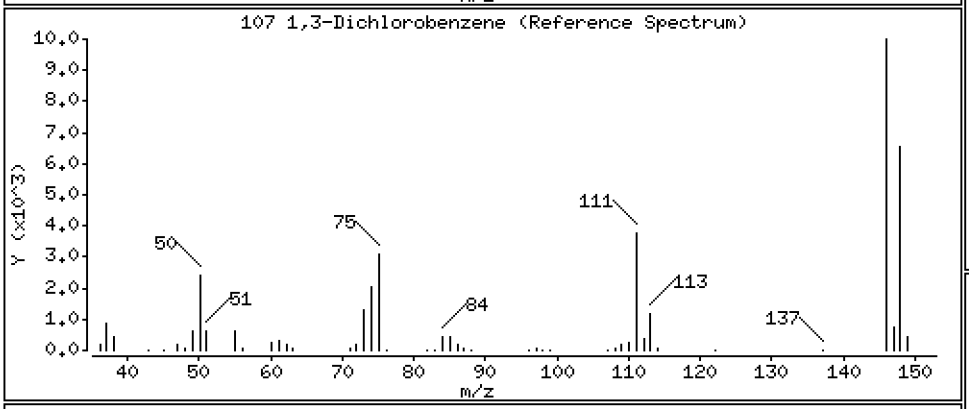
Purge Volume: 5.0 Operator: CJG

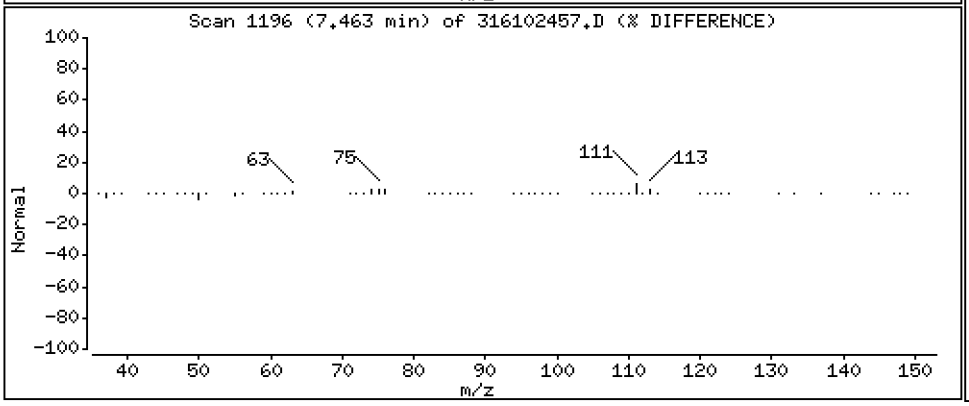
Column phase: DB-VRX Column diameter: 0.25

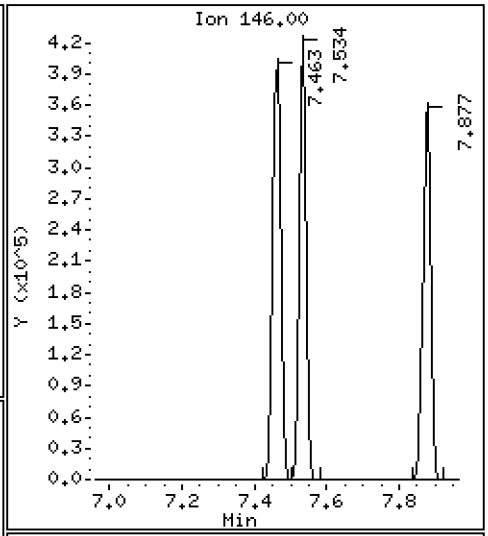
107 1,3-Dichlorobenzene Concentration: 48.4938 ug/L

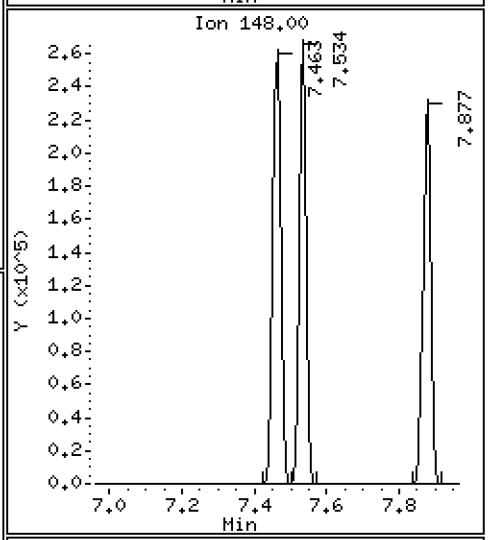


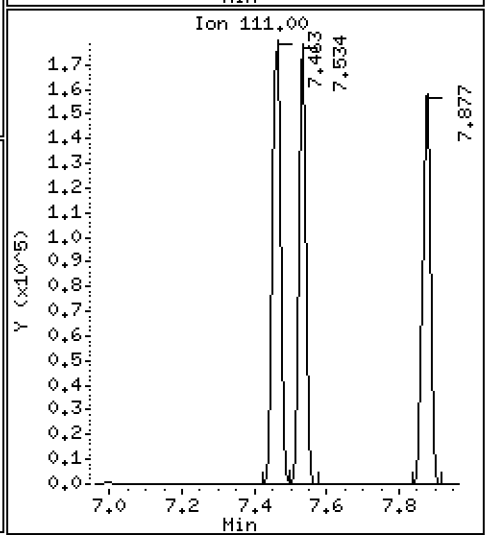












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 109

Date : 25-OCT-2016 00:52

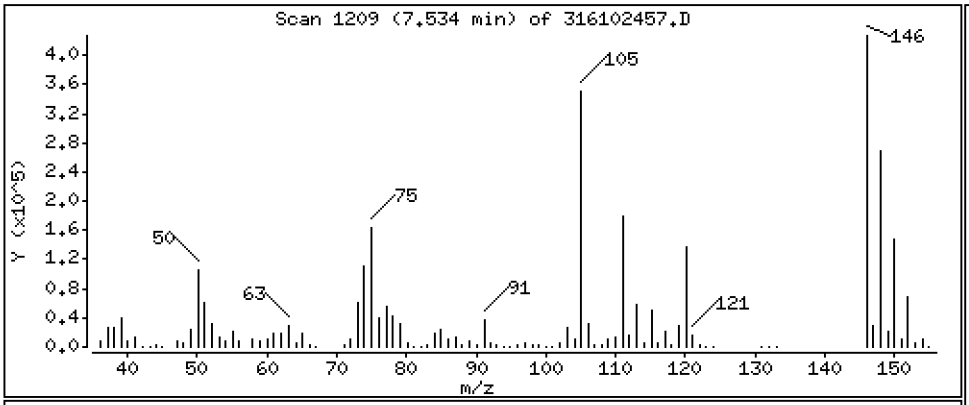
Client ID: Instrument: ms03.i

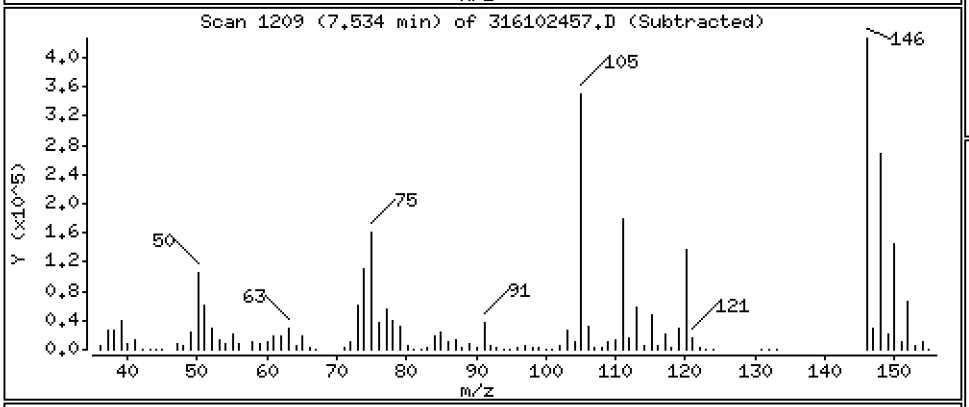
Sample Info: 1237;;1;1;4;;;

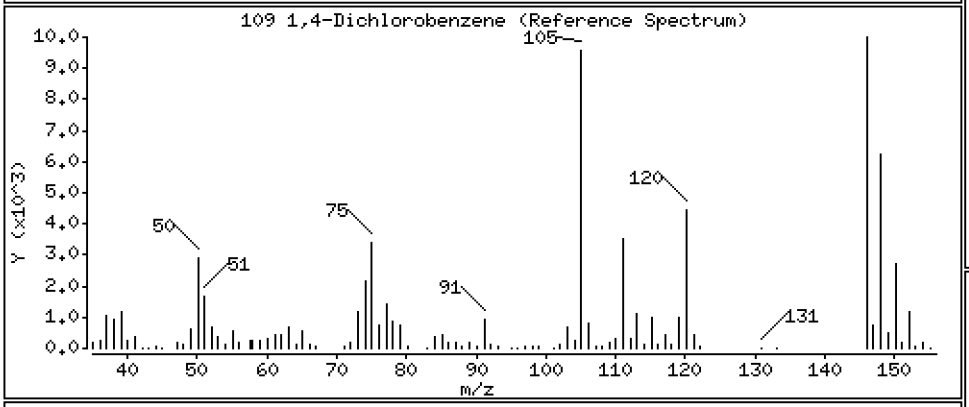
Purge Volume: 5.0 Operator: CJG

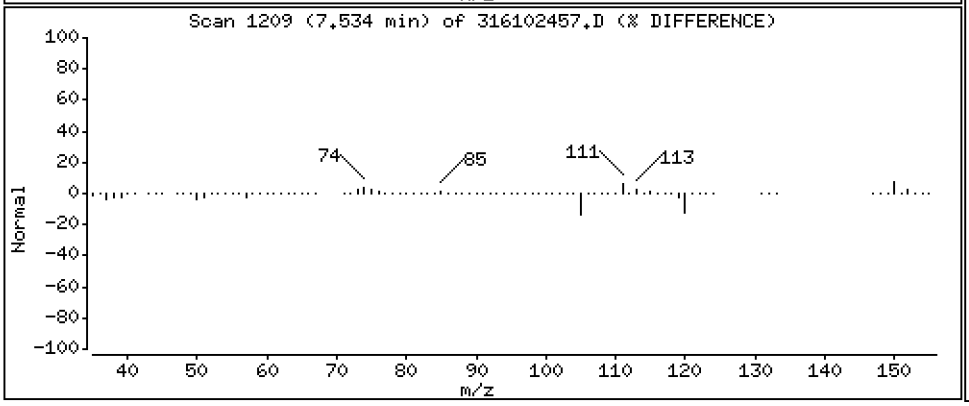
Column phase: DB-VRX Column diameter: 0.25

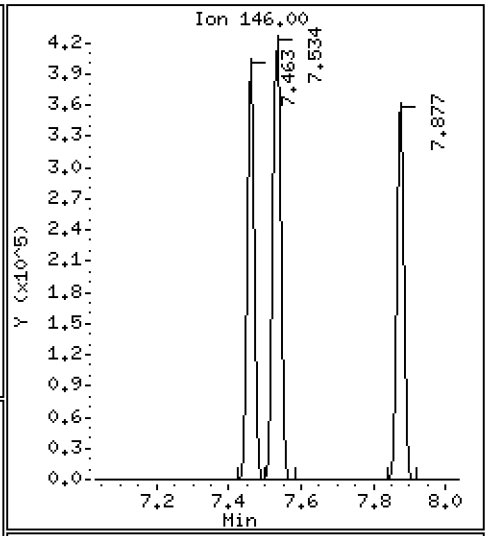
109 1,4-Dichlorobenzene Concentration: 48.8968 ug/L

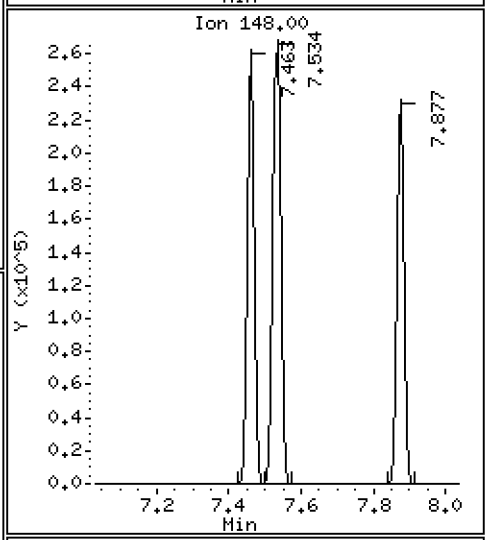


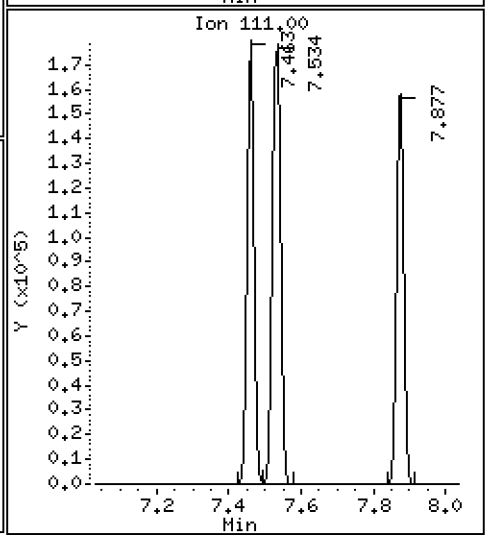












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 110

Date : 25-OCT-2016 00:52

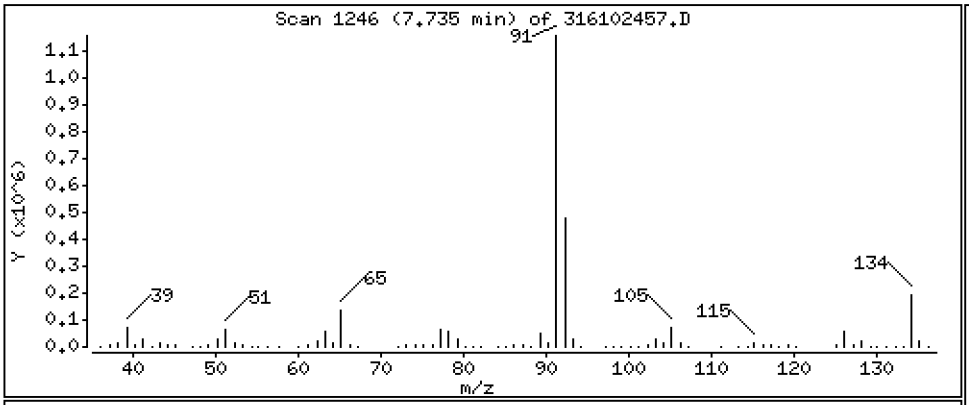
Client ID: Instrument: ms03.i

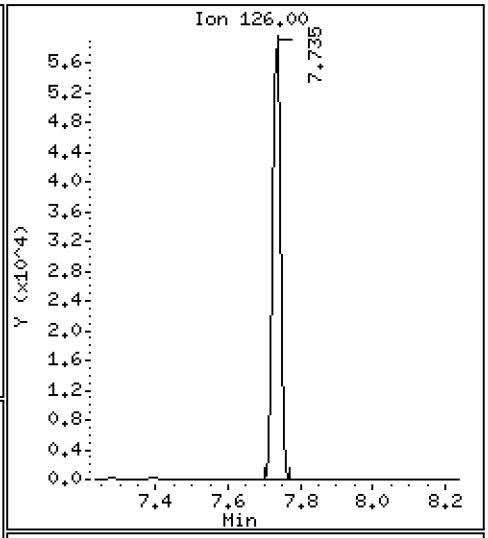
Sample Info: 1237;;1;1;4;;;

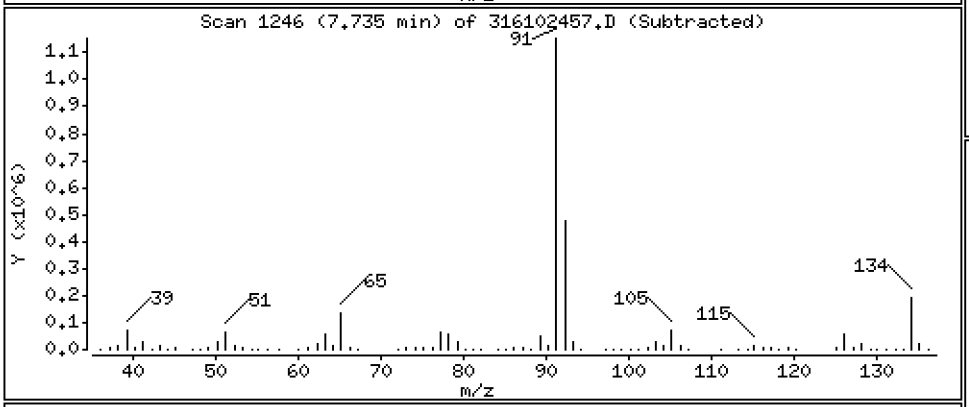
Purge Volume: 5.0 Operator: CJG

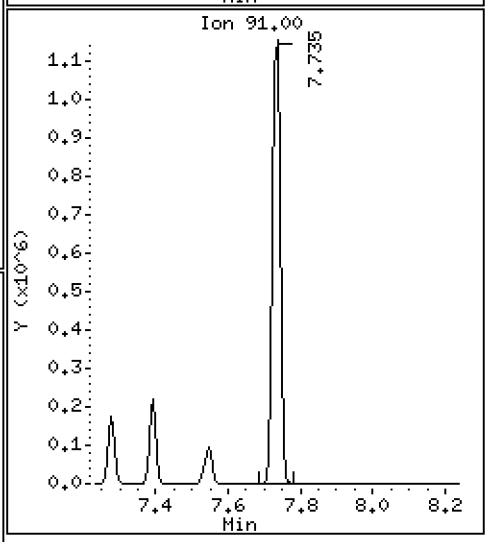
Column phase: DB-VRX Column diameter: 0.25

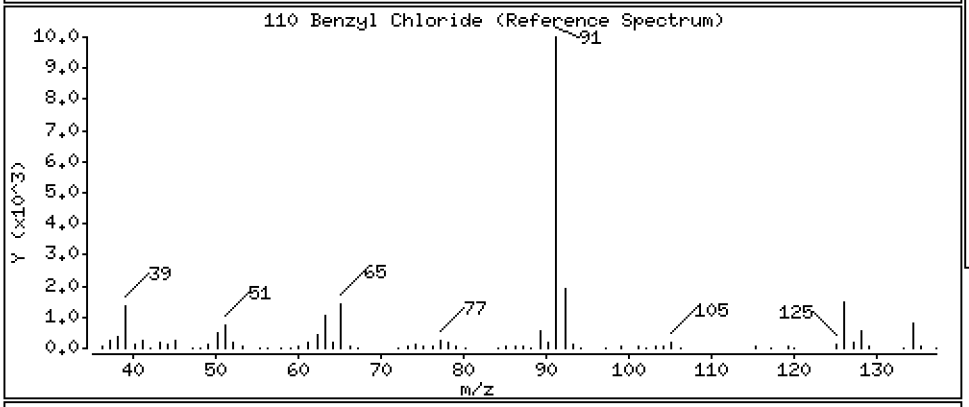
110 Benzyl Chloride Concentration: 48.1619 ug/L

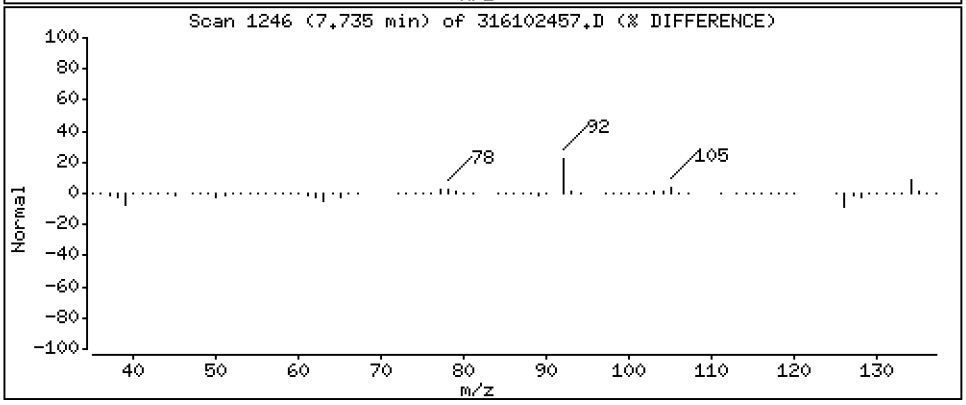












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 111

Date : 25-OCT-2016 00:52

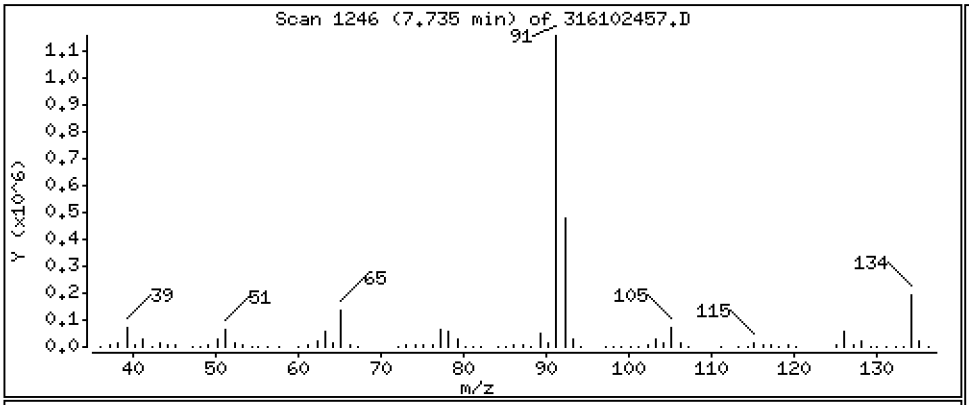
Client ID: Instrument: ms03.i

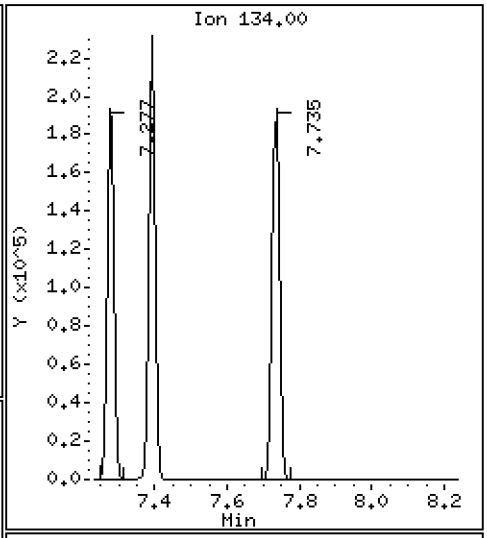
Sample Info: 1237;;1;1;4;;;

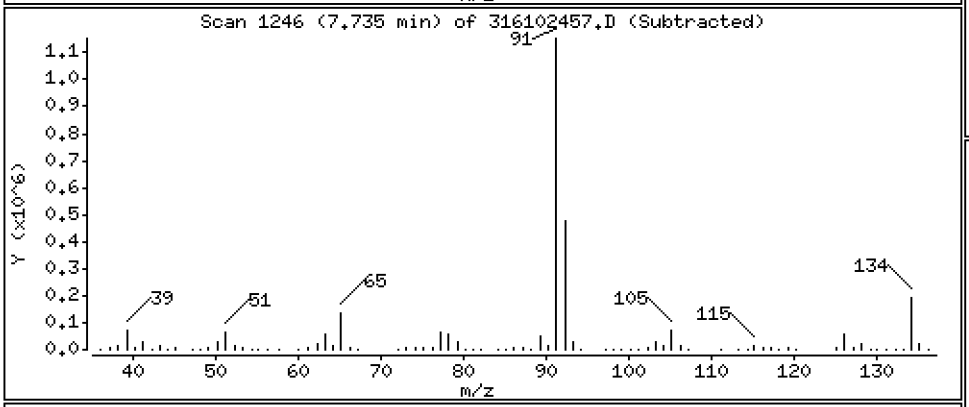
Purge Volume: 5.0 Operator: CJG

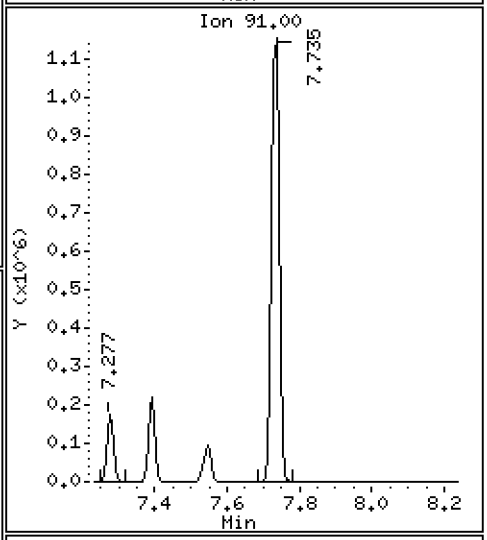
Column phase: DB-VRX Column diameter: 0.25

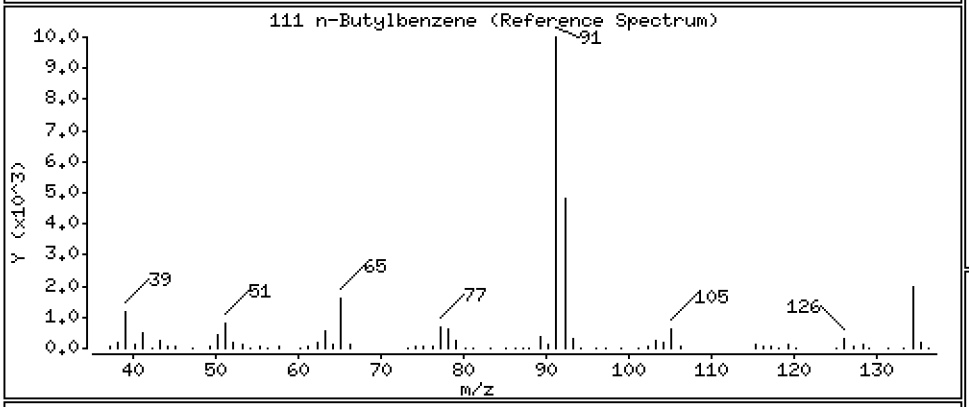
111 n-Butylbenzene Concentration: 47.9123 ug/L

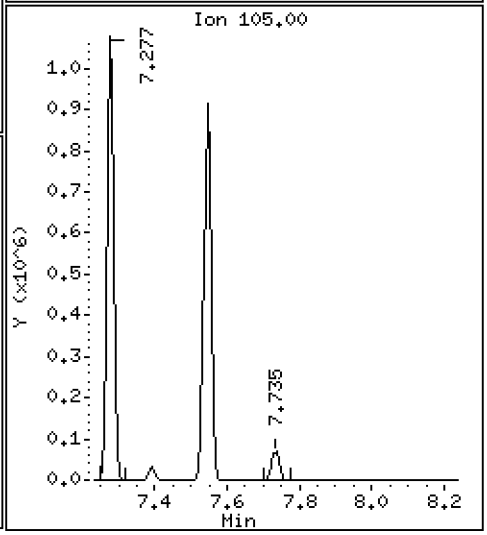


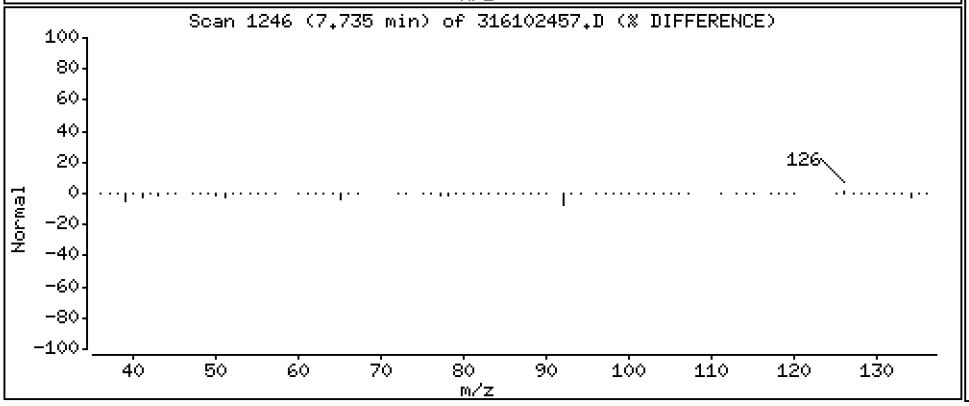












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 112

Date : 25-OCT-2016 00:52

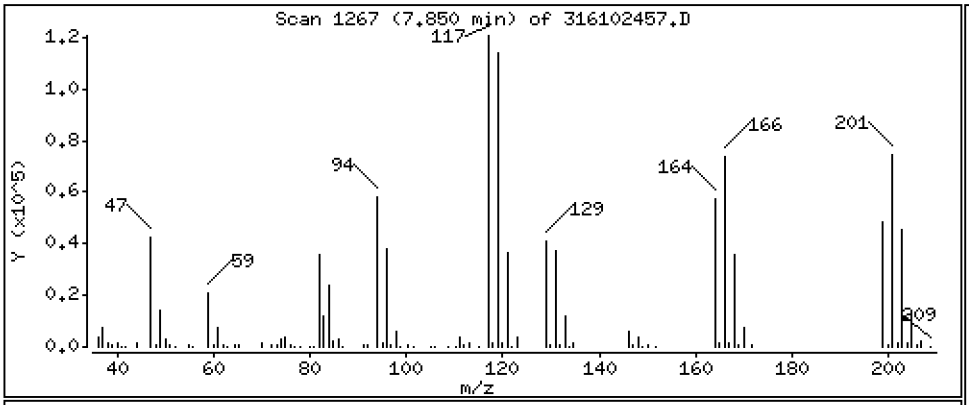
Client ID: Instrument: ms03.i

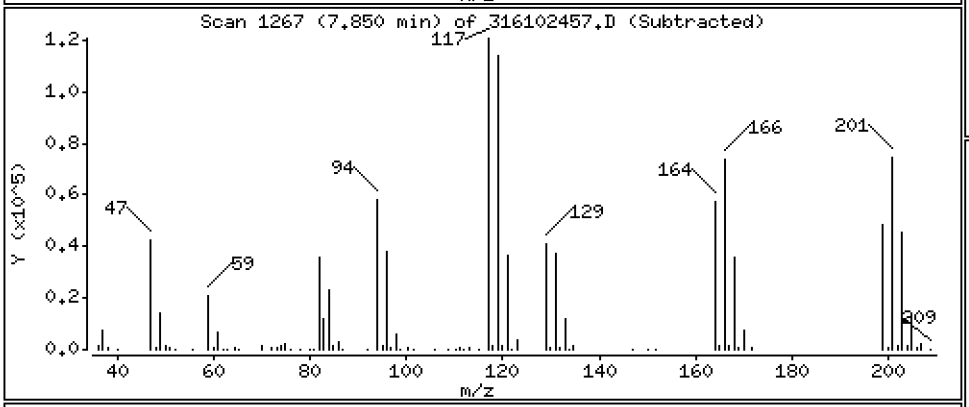
Sample Info: 1237;;1;1;4;;;

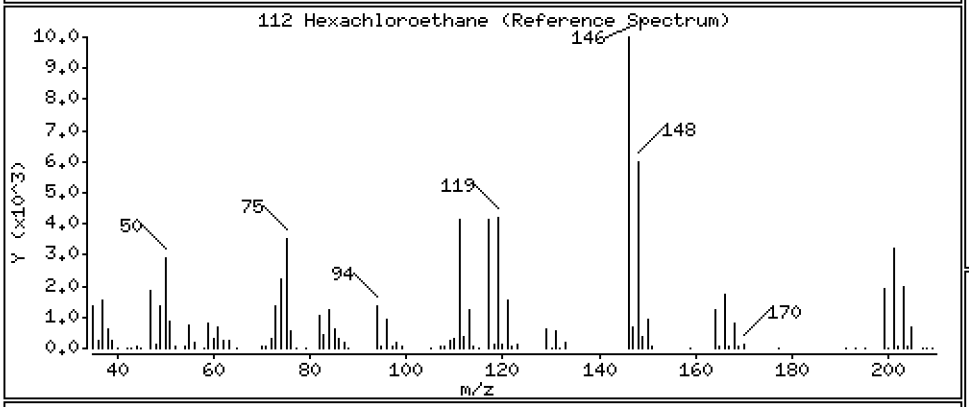
Purge Volume: 5.0 Operator: CJG

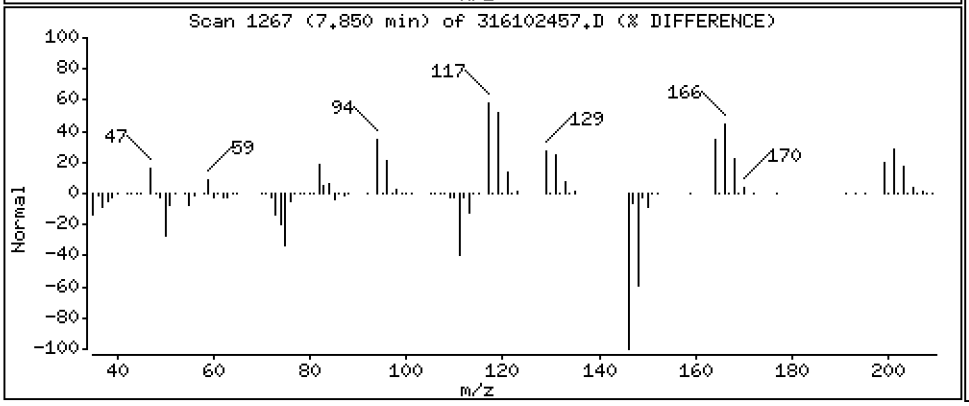
Column phase: DB-VRX Column diameter: 0.25

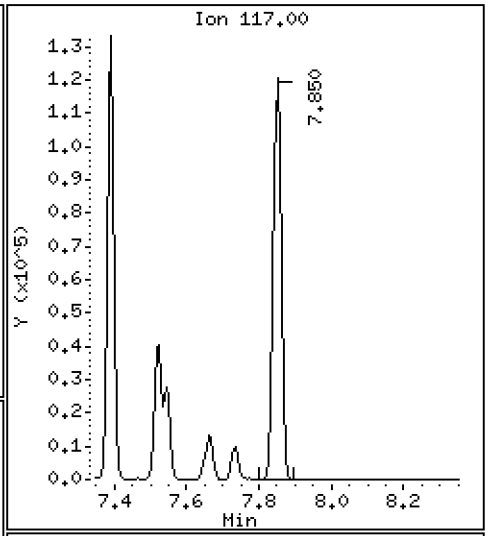
112 Hexachloroethane Concentration: 47.1132 ug/L

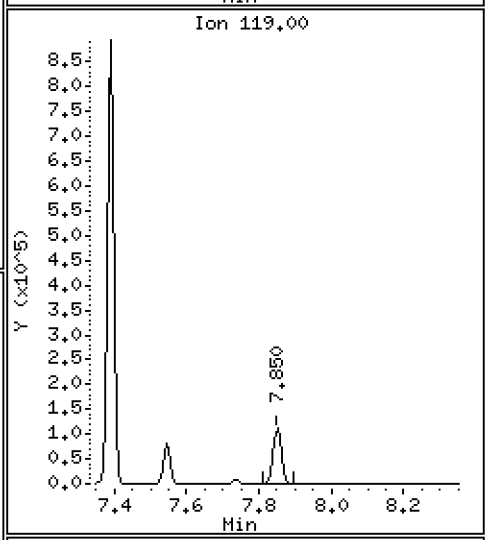


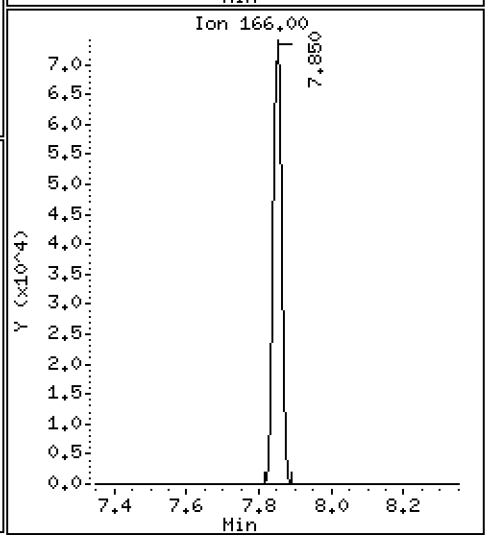












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 113

Date : 25-OCT-2016 00:52

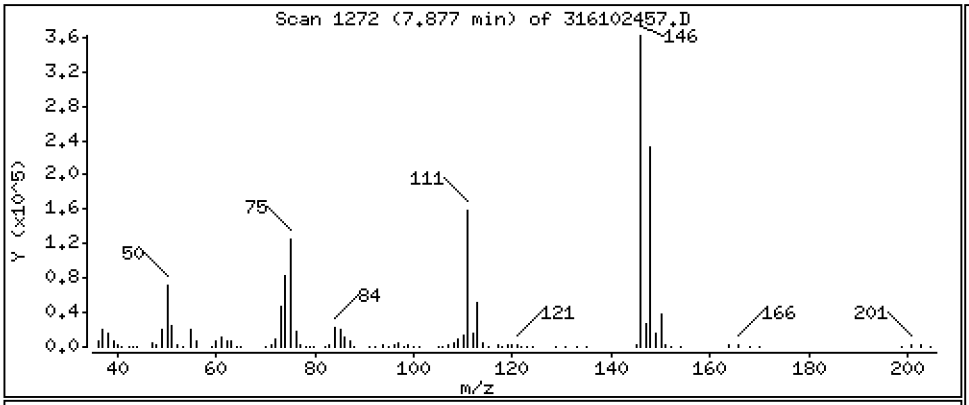
Client ID: Instrument: ms03.i

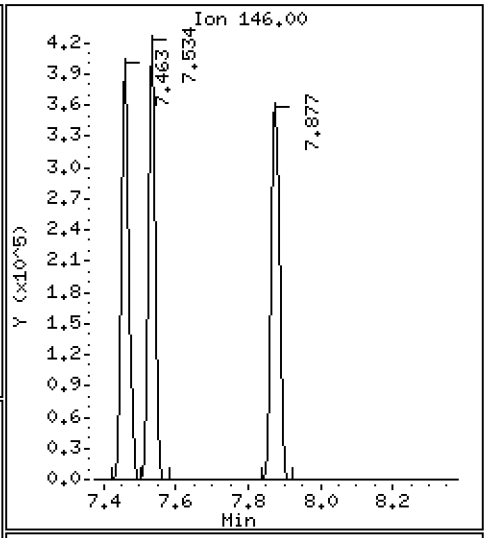
Sample Info: 1237;;1;1;4;;;

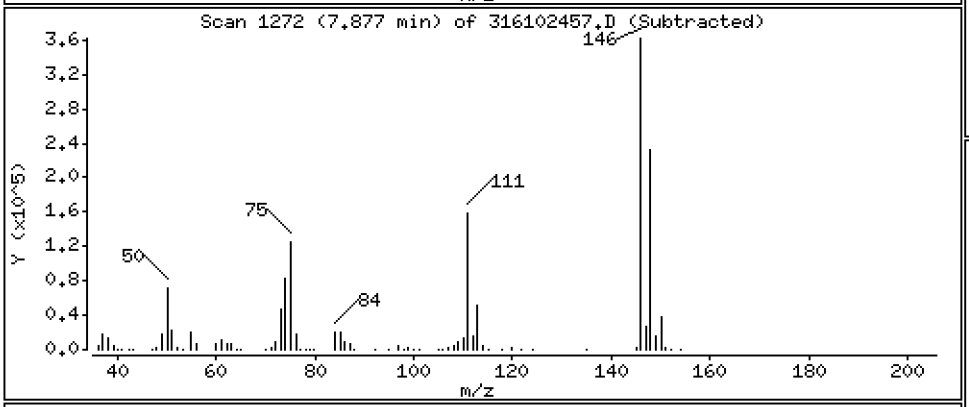
Purge Volume: 5.0 Operator: CJG

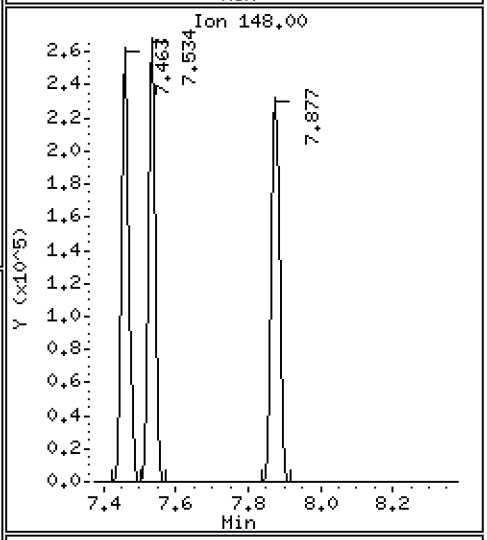
Column phase: DB-VRX Column diameter: 0.25

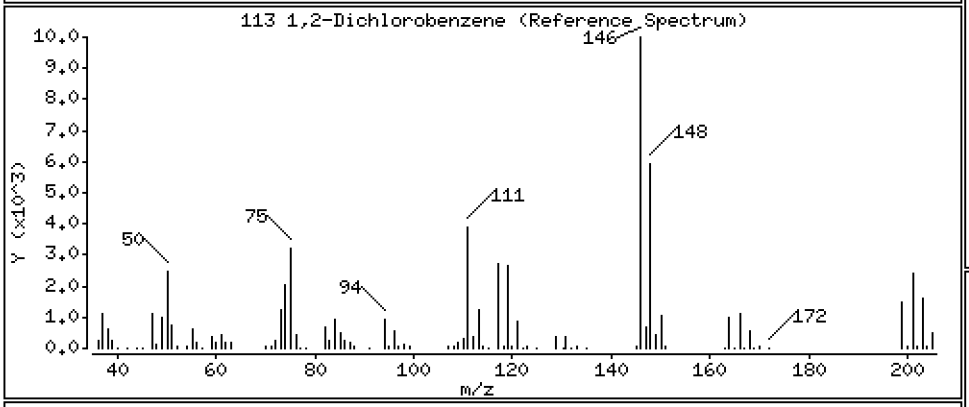
113 1,2-Dichlorobenzene Concentration: 49.1431 ug/L

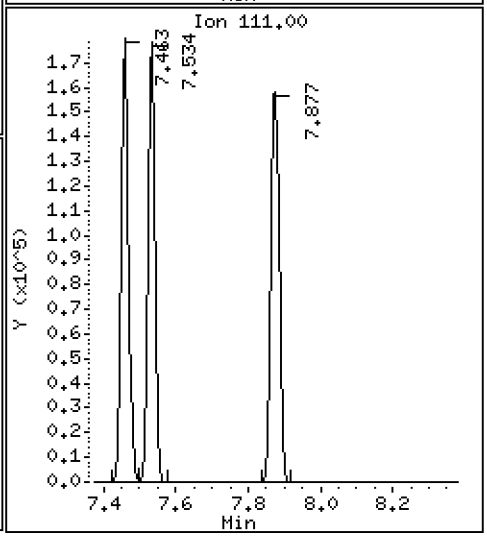


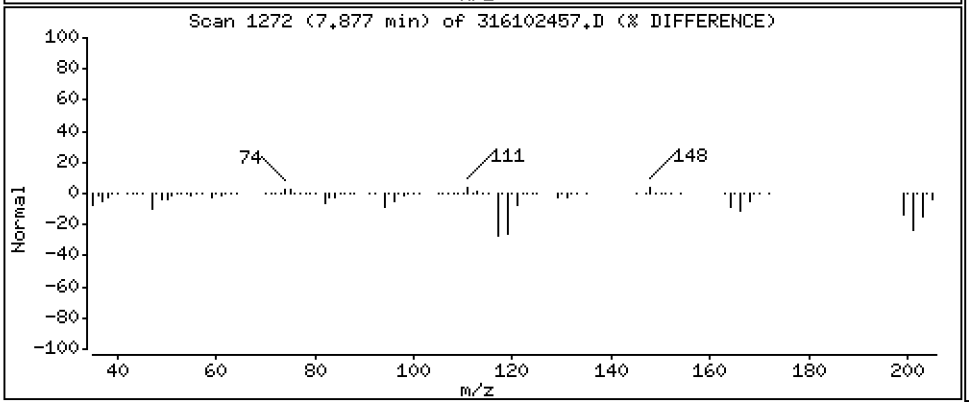












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 114

Date : 25-OCT-2016 00:52

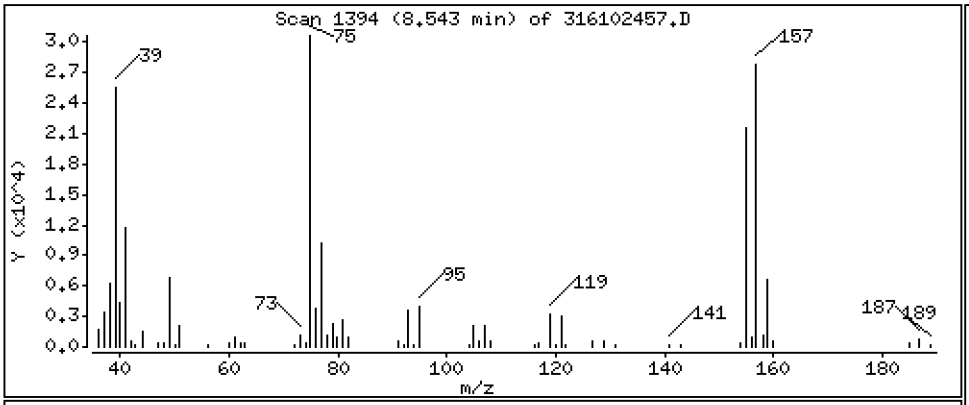
Client ID: Instrument: ms03.i

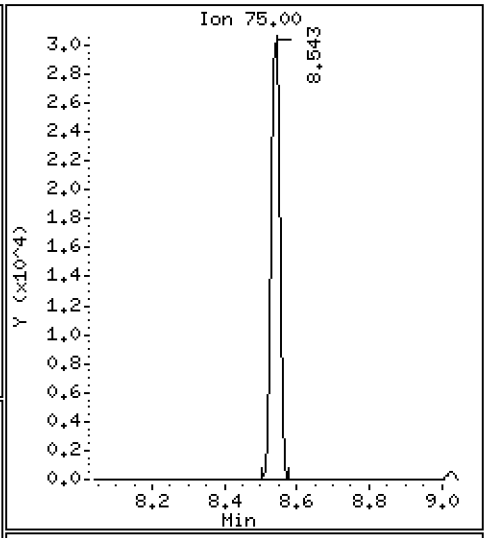
Sample Info: 1237;;1;1;4;;;

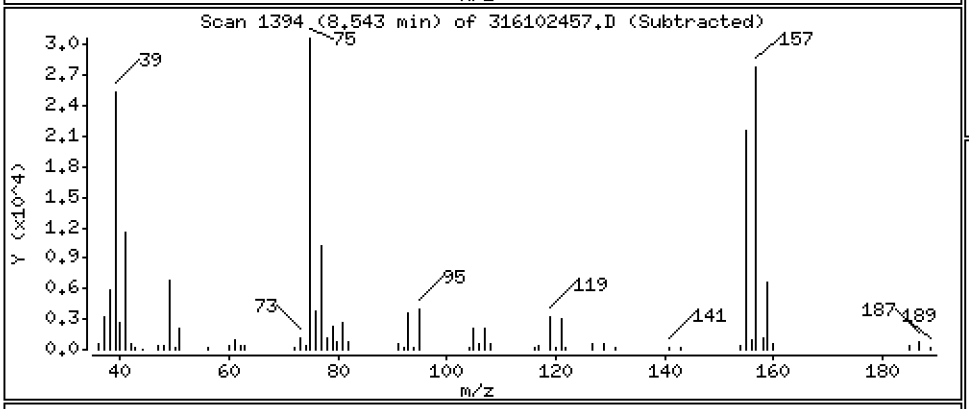
Purge Volume: 5.0 Operator: CJG

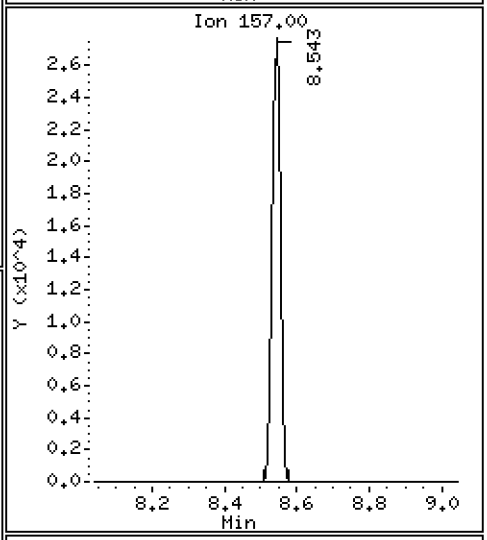
Column phase: DB-VRX Column diameter: 0.25

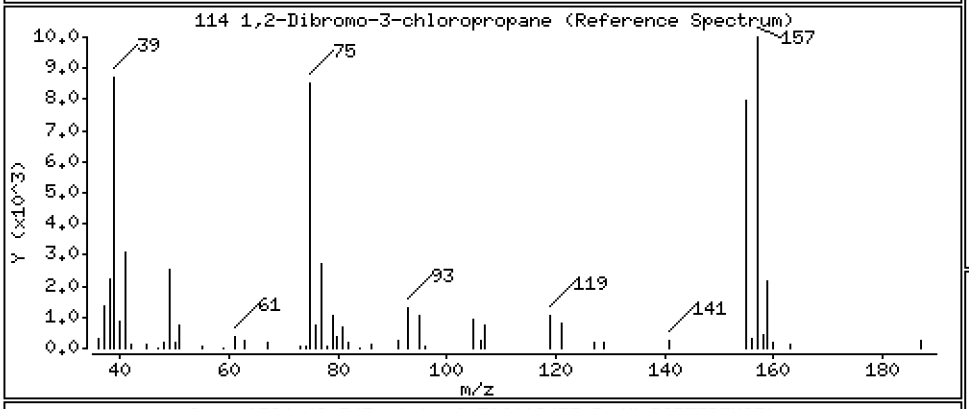
114 1,2-Dibromo-3-chloropropane Concentration: 50.4790 ug/L

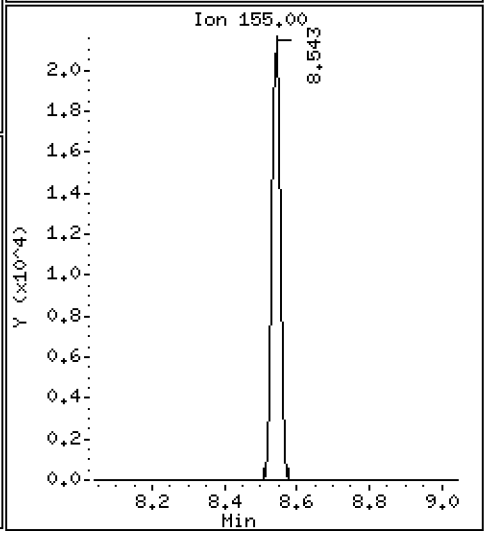


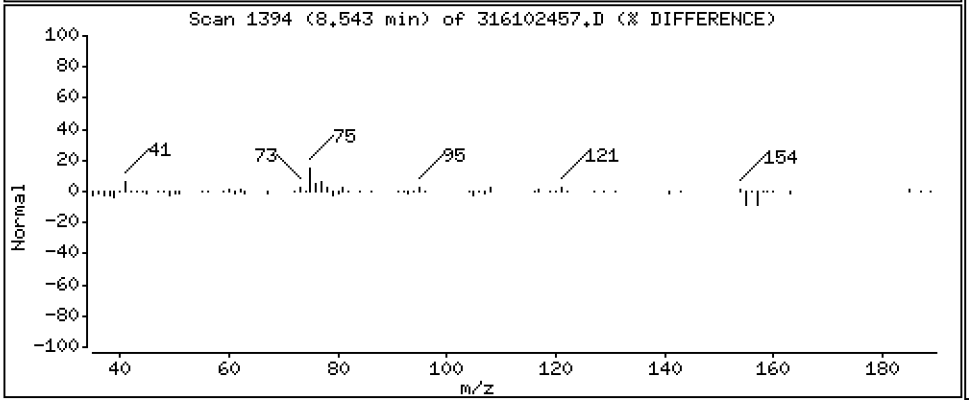












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 115

Date : 25-OCT-2016 00:52

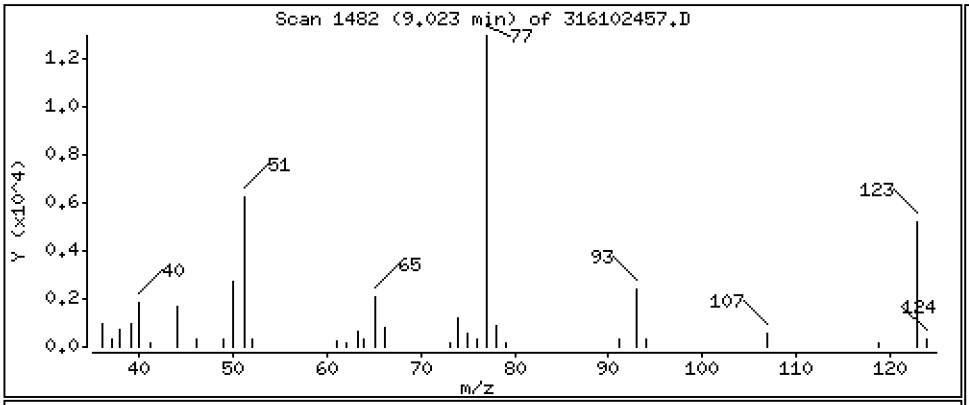
Client ID: Instrument: ms03.i

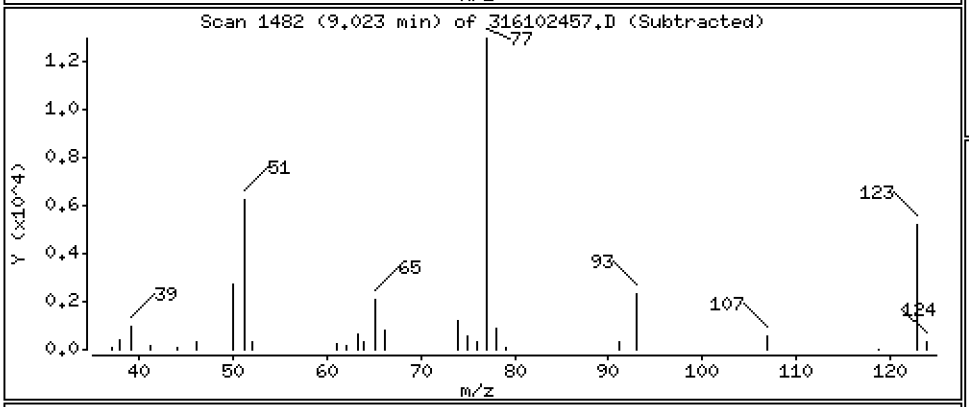
Sample Info: 1237;;1;1;4;;;

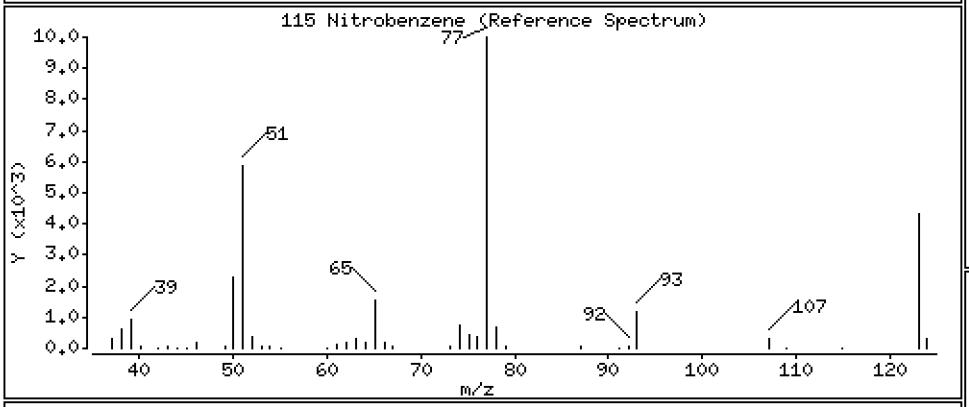
Purge Volume: 5.0 Operator: CJG

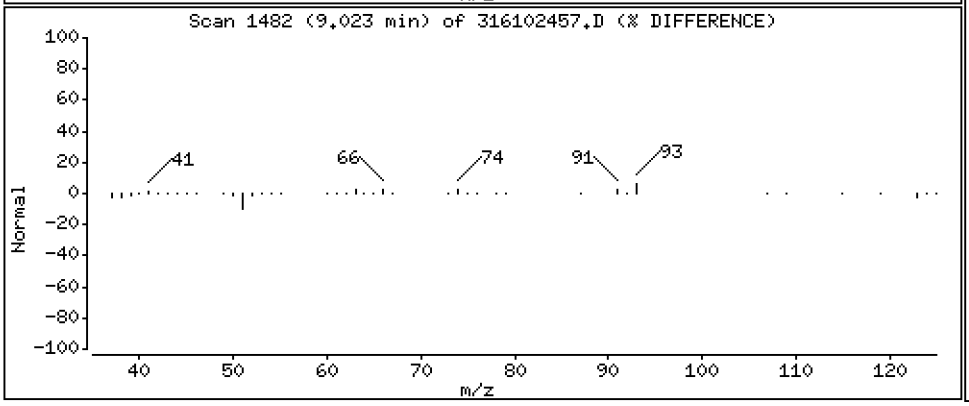
Column phase: DB-VRX Column diameter: 0.25

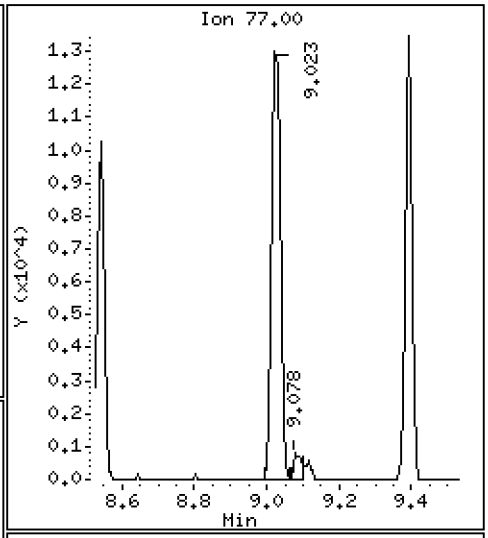
115 Nitrobenzene Concentration: 575.592 ug/L

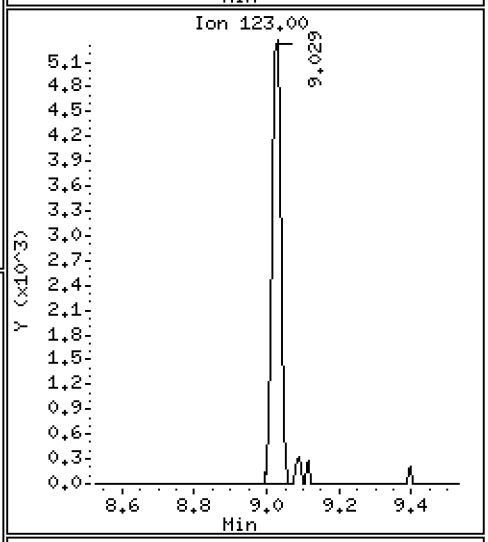


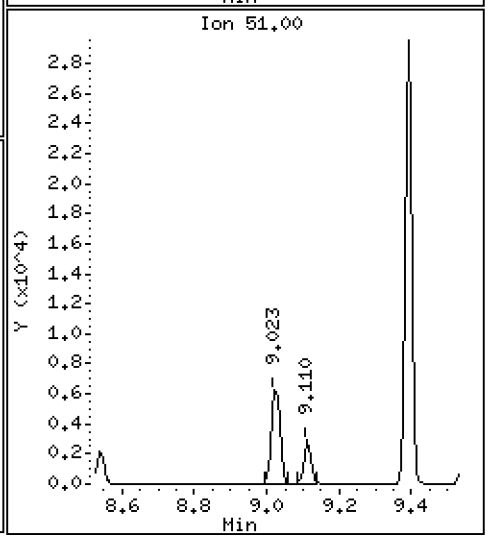












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 116

Date : 25-OCT-2016 00:52

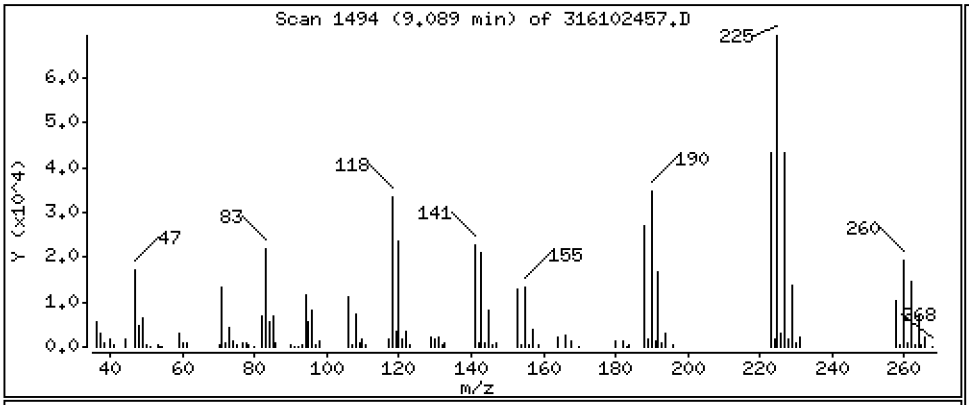
Client ID: Instrument: ms03.i

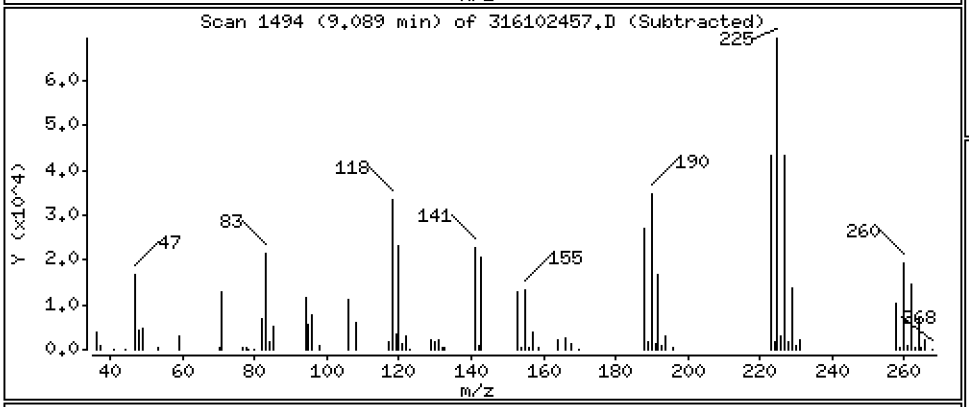
Sample Info: 1237;;1;1;4;;;

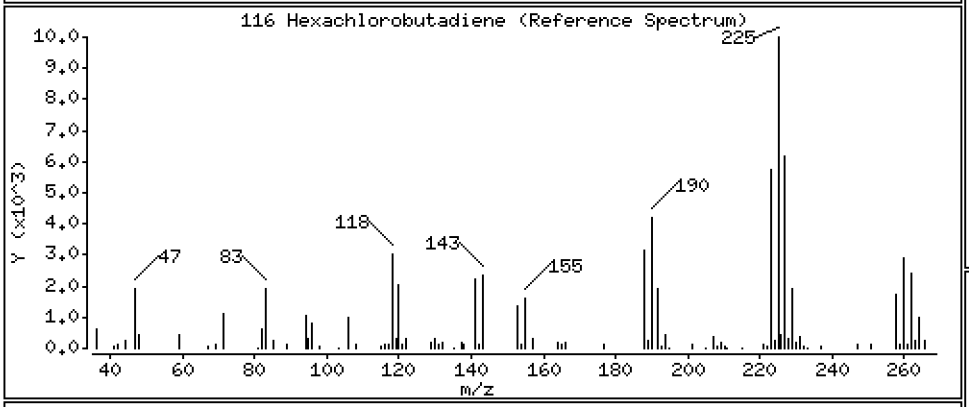
Purge Volume: 5.0 Operator: CJG

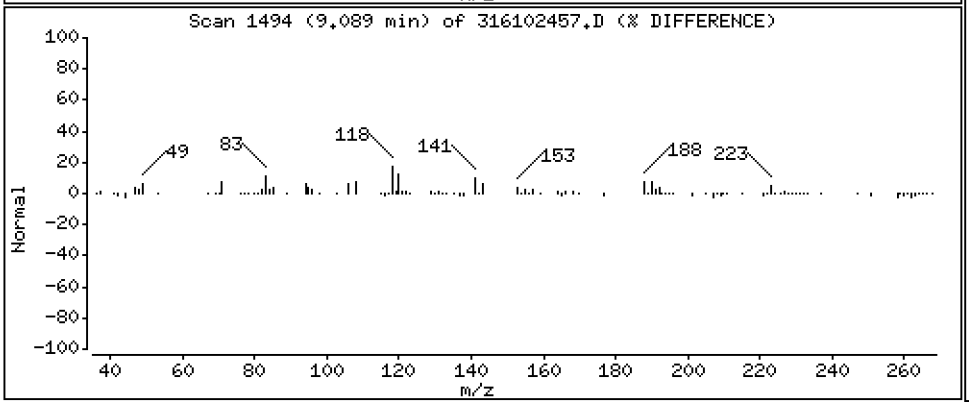
Column phase: DB-VRX Column diameter: 0.25

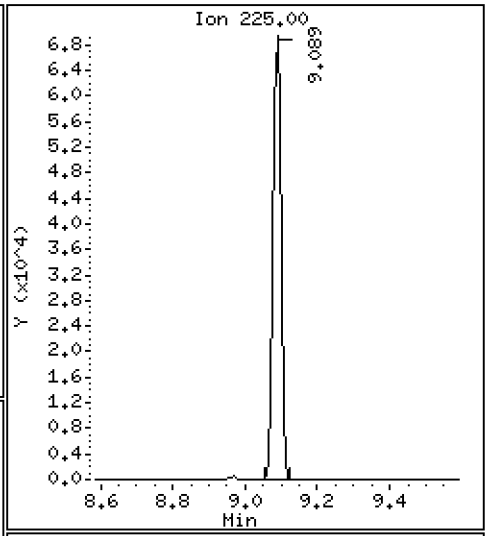
116 Hexachlorobutadiene Concentration: 47.9736 ug/L

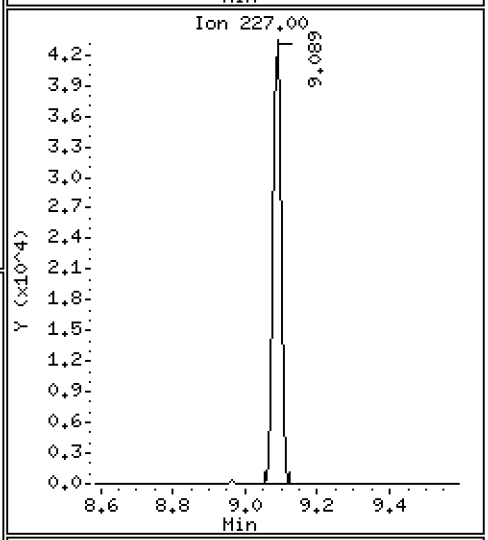


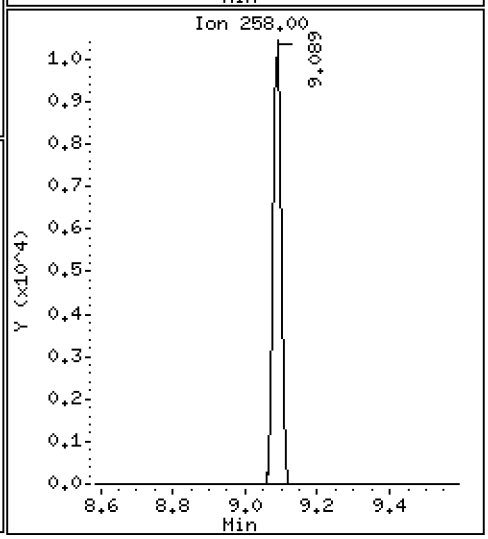












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 117

Date : 25-OCT-2016 00:52

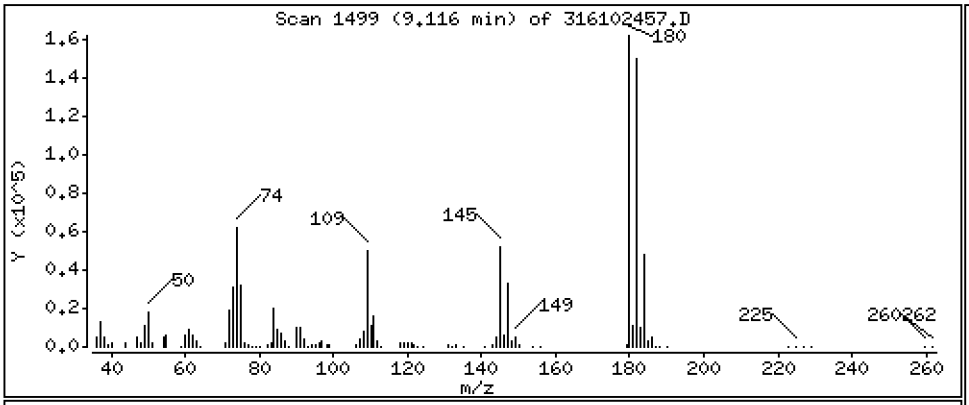
Client ID: Instrument: ms03.i

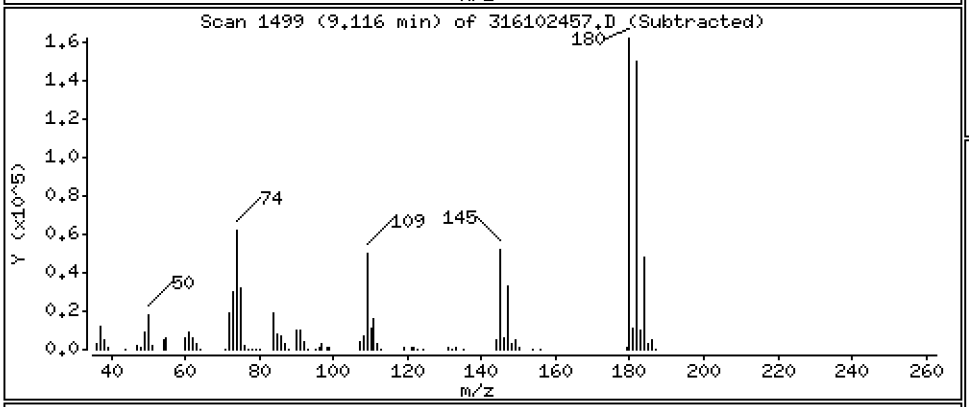
Sample Info: 1237;;1;1;4;;;

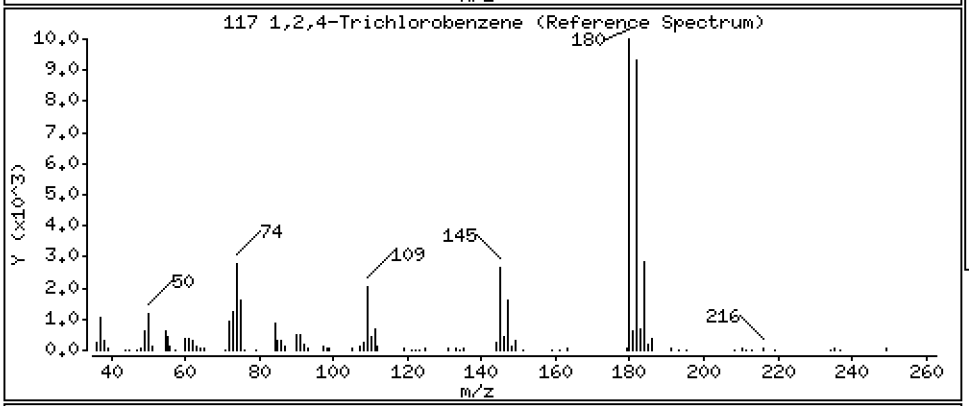
Purge Volume: 5.0 Operator: CJG

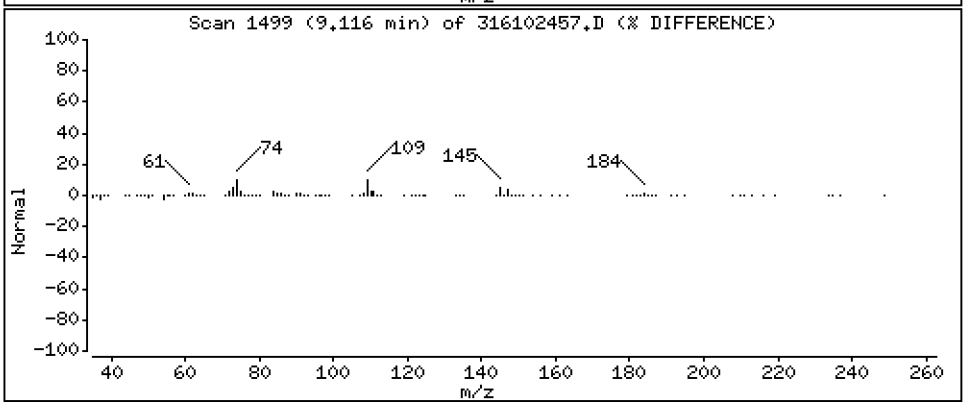
Column phase: DB-VRX Column diameter: 0.25

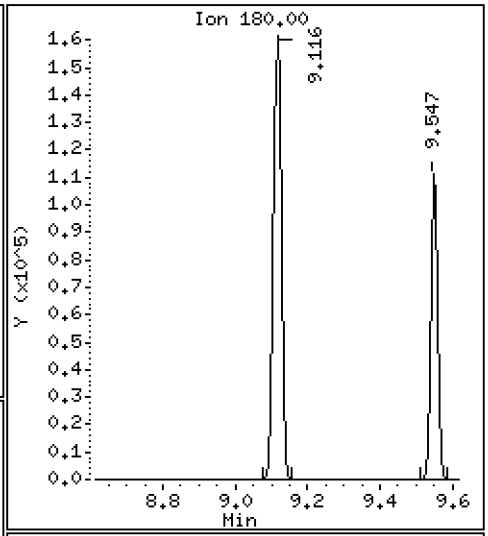
117 1,2,4-Trichlorobenzene Concentration: 49.3009 ug/L

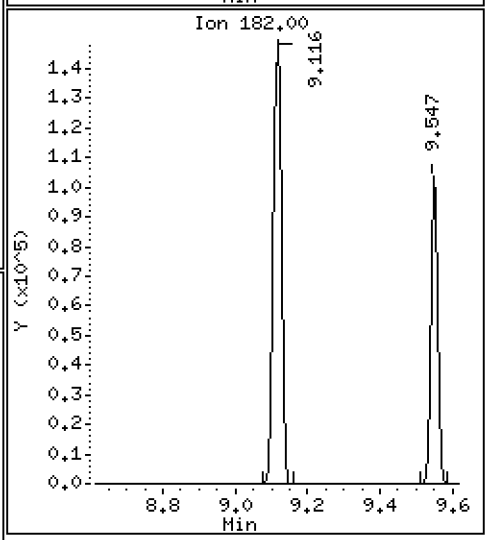












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 118

Date : 25-OCT-2016 00:52

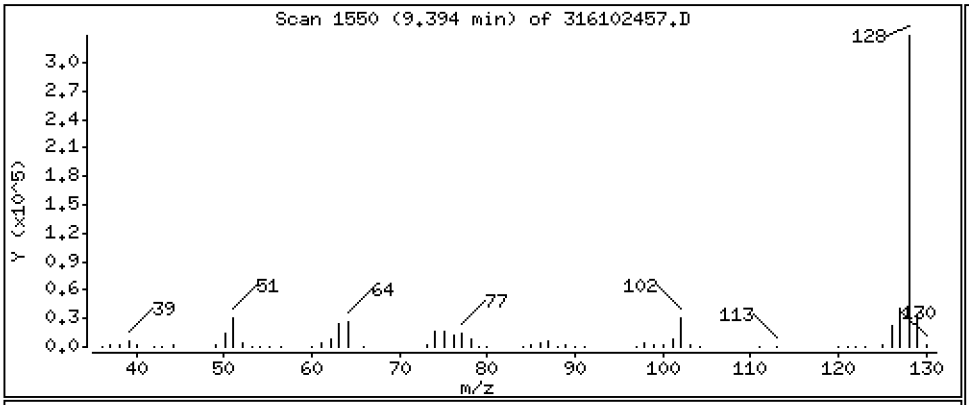
Client ID: Instrument: ms03.i

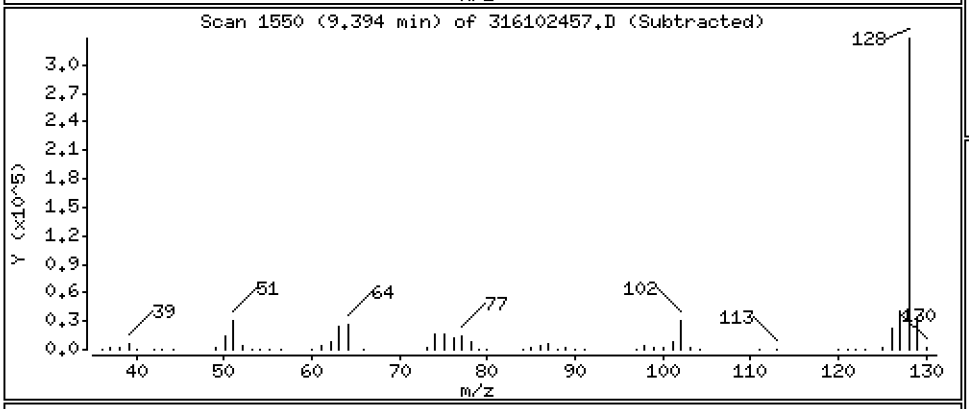
Sample Info: 1237;;1;1;4;;;

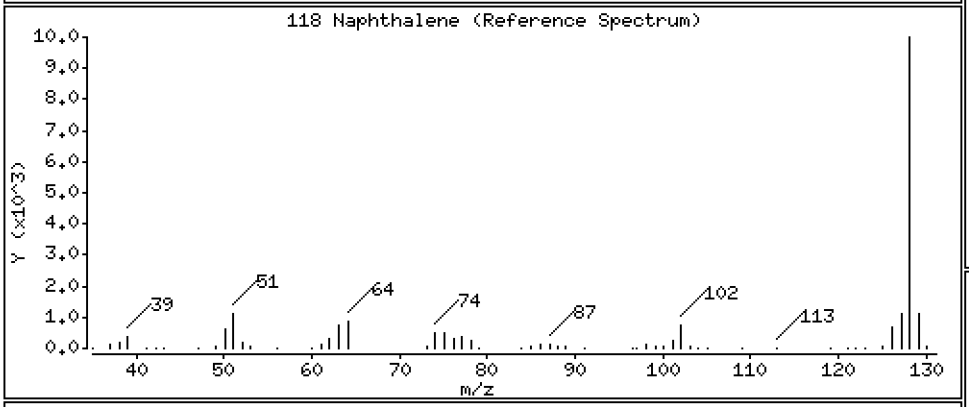
Purge Volume: 5.0 Operator: CJG

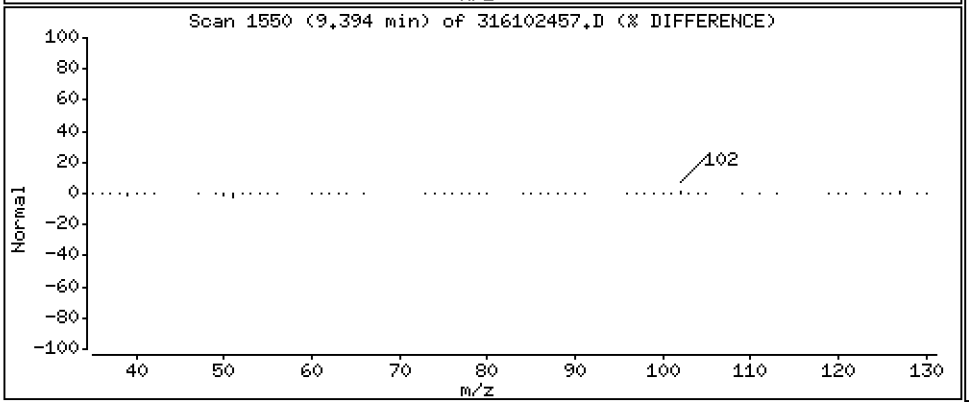
Column phase: DB-VRX Column diameter: 0.25

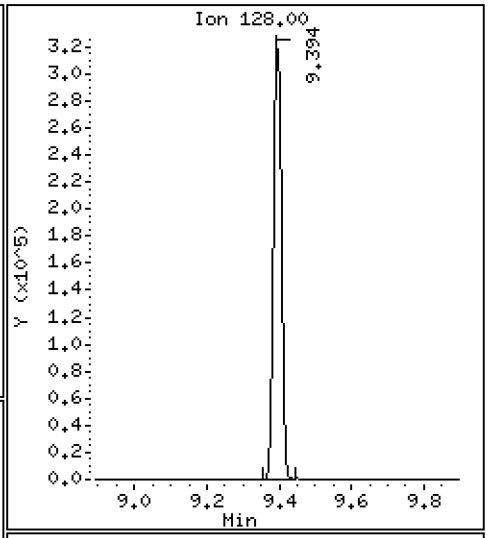
118 Naphthalene Concentration: 50.5177 ug/L

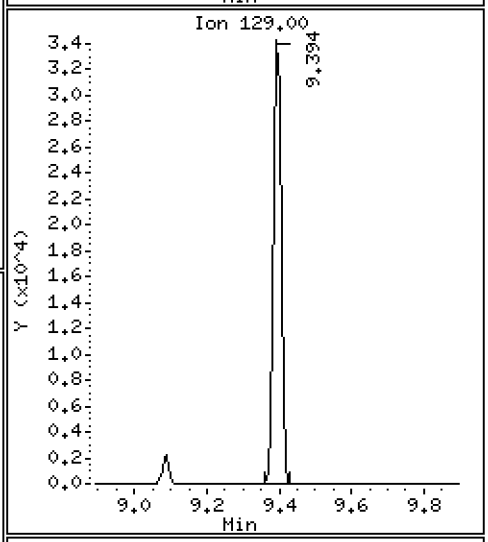


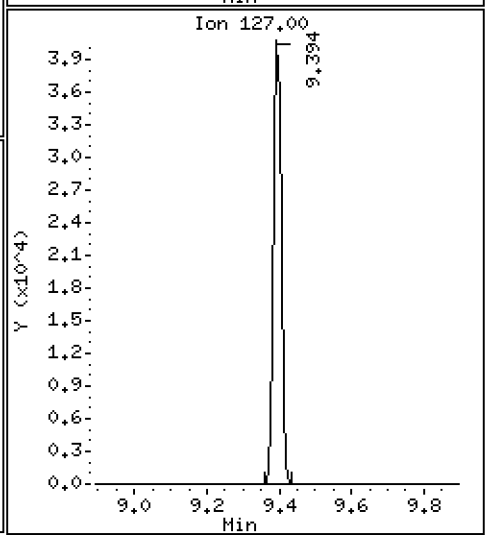












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 119

Date : 25-OCT-2016 00:52

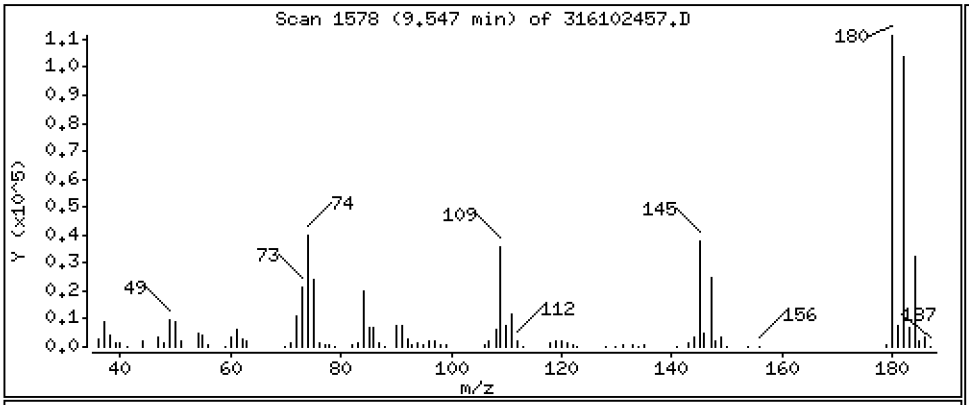
Client ID: Instrument: ms03.i

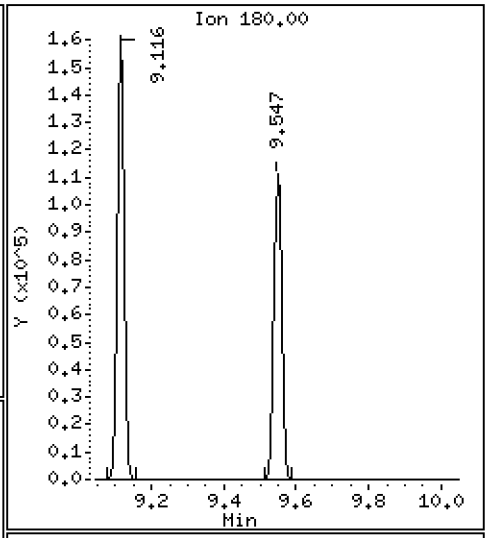
Sample Info: 1237;;1;1;4;;;

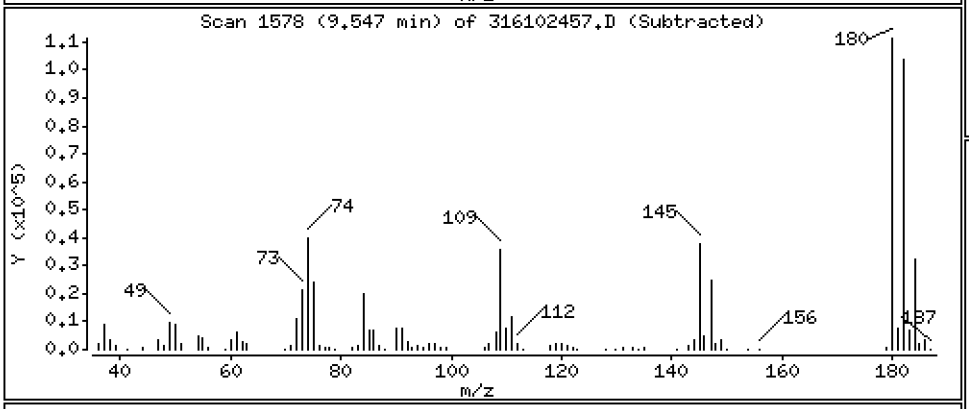
Purge Volume: 5.0 Operator: CJG

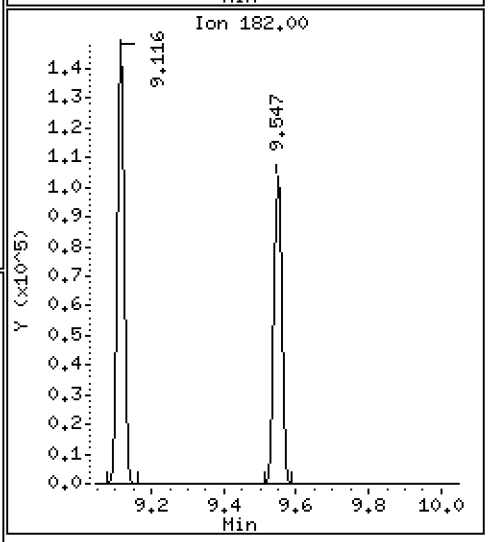
Column phase: DB-VRX Column diameter: 0.25

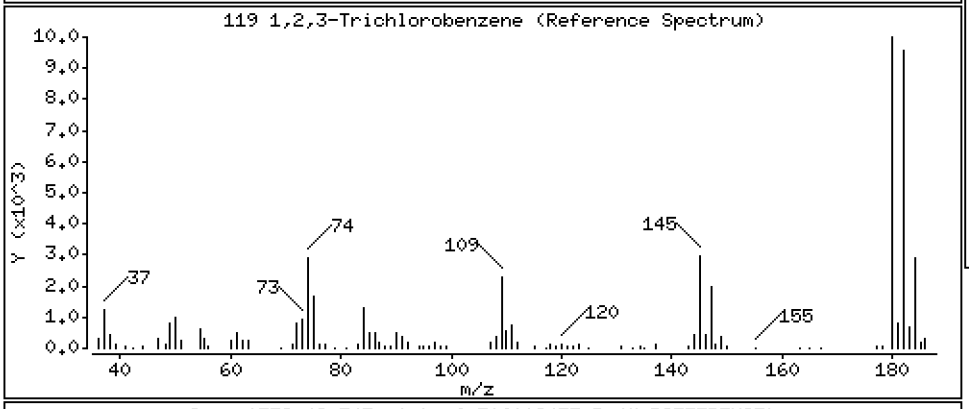
119 1,2,3-Trichlorobenzene Concentration: 51.7359 ug/L

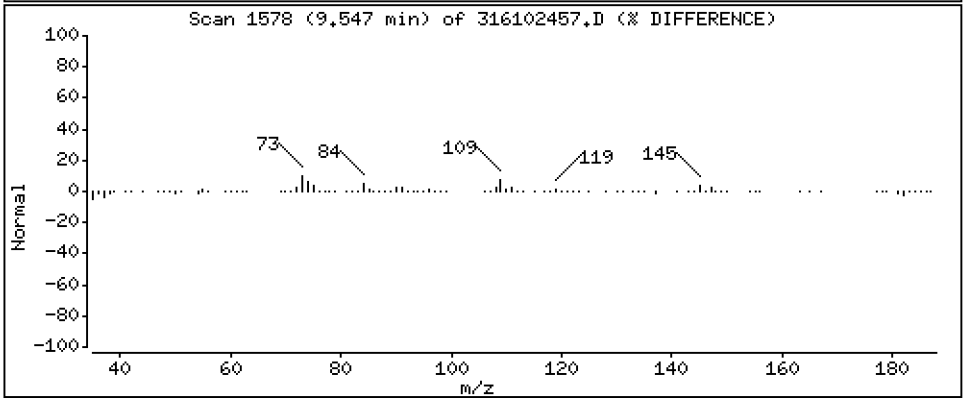








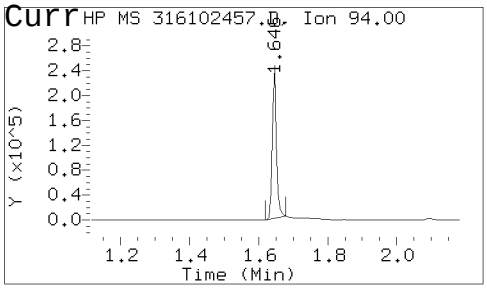


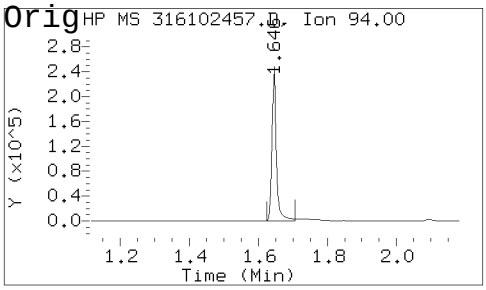


MANUAL INTEGRATION REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1237 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102457.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102457.D
Injection Date: 25-OCT-2016 00:52 Operator: CJG

Bromomethane

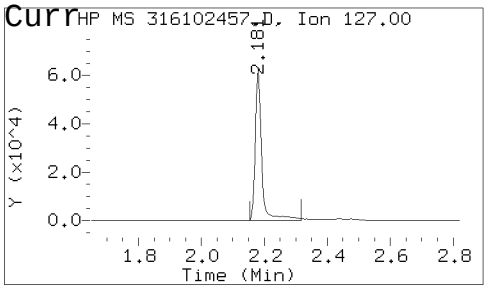


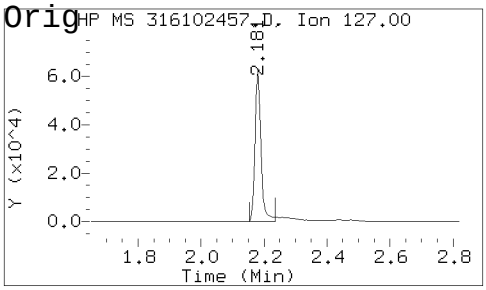


Curr. Area: 214551
Orig. Area: 233224

Curr. ON-COL: 46.7273
Orig. ON-COL: 50.0000

Iodomethane

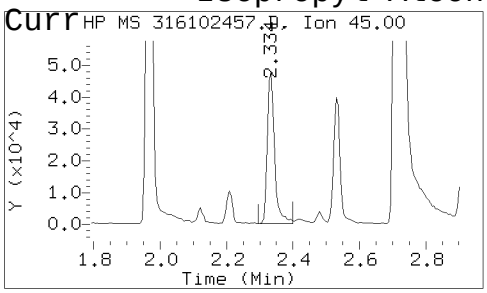


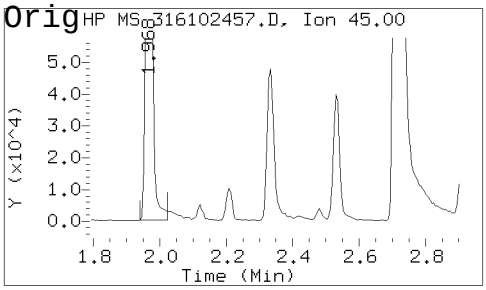


Curr. Area: 87895
Orig. Area: 81015

Curr. ON-COL: 44.8691
Orig. ON-COL: 50.0000

Isopropyl Alcohol

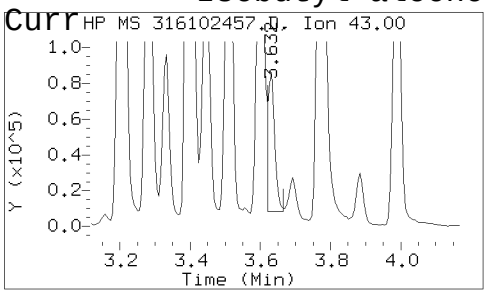


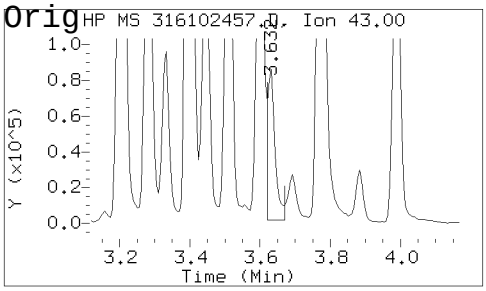


Curr. Area: 71076
Orig. Area: 295344

Curr. ON-COL: 262.088
Orig. ON-COL: 250.000

Isobutyl alcohol

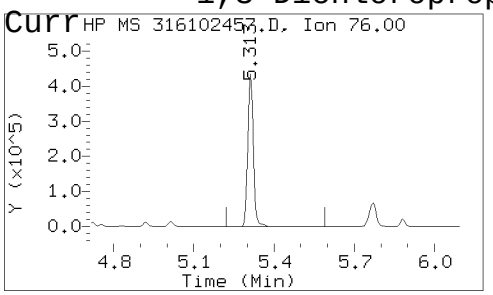


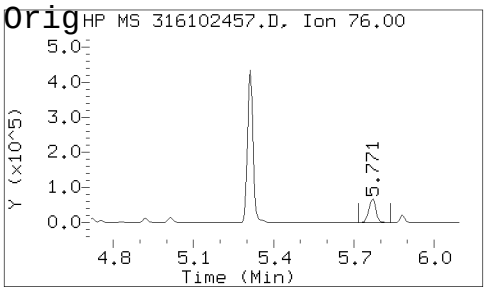


Curr. Area: 105297
Orig. Area: 126729

Curr. ON-COL: 554.161
Orig. ON-COL: 500.000

1,3-Dichloropropane





Curr. Area: 617496
Orig. Area: 126307

Curr. ON-COL: 50.7518
Orig. ON-COL: 50.0000

UNASSIGNED PEAK REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1237 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102457.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102457.D
Injection Date: 25-OCT-2016 00:52 Operator: CJG

Data File: 316102458.D Page 1
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610245
Lab Smp Id: 1238
Inj Date : 25-OCT-2016 01:14
Operator : CJG Inst ID: ms03.i
Smp Info : 1238;;1;1;5;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b0
Meth Date : 25-Oct-2016 10:10 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: ALMDTW7062

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.259	(0.332)	1285315	100.000	100.069	
2 Chloromethane	50	1.389	1.390	(0.367)	1151305	100.000	100.063	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	1323102	100.000	100.254	
4 Bromomethane	94	1.646	1.646	(0.434)	611189	100.000	104.093(M)	H
5 Chloroethane	64	1.722	1.723	(0.454)	805220	100.000	100.170	
6 Pentane	41	1.793	1.794	(0.473)	688898	100.000	99.2612	
7 Trichlorofluoromethane	101	1.799	1.799	(0.475)	1412223	100.000	99.3173	
8 Dichlorofluoromethane	67	1.826	1.826	(0.482)	1754645	100.000	100.065	
9 Ethyl Ether	74	1.968	1.968	(0.519)	595032	100.000	98.4824	
10 1,1-Dichloroethene	61	2.088	2.088	(0.551)	1228154	100.000	99.9438	
11 Freon 113	101	2.104	2.105	(0.555)	655003	100.000	99.4589	
12 Carbon Disulfide	76	2.120	2.121	(0.560)	2294590	100.000	101.392	
13 Iodomethane	127	2.180	2.181	(0.575)	235374	100.000	105.804(M)	
14 Acrolein	56	2.273	2.274	(0.600)	1260046	1000.00	1000.23	
15 Isopropyl Alcohol	45	2.333	2.334	(0.616)	143587	500.000	495.120(M)	IH
16 3-Chloro-1-propene	41	2.344	2.345	(0.619)	1115226	100.000	101.564	
17 Methylene Chloride	84	2.404	2.405	(0.634)	852055	100.000	100.085	
18 Acetone	58	2.426	2.427	(0.640)	310795	500.000	493.364	
19 Methyl acetate	74	2.481	2.481	(0.655)	131421	100.000	98.9751	
20 trans-1,2-Dichloroethene	61	2.486	2.487	(0.656)	1217528	100.000	100.462	
21 Hexane	57	2.519	2.519	(0.665)	1719441	100.000	100.431	

Data File: 316102458.D Page 2
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.530	2.530	(0.667)	2253328	100.000	100.084	
	23 tert.- Butyl Alcohol	59	2.562	2.563	(0.676)	251552	500.000	504.132	
	24 Acetonitrile	41	2.682	2.683	(0.708)	378852	500.000	495.610	
	25 Diisopropyl ether	45	2.721	2.721	(0.718)	3019485	100.000	100.507	
	26 Chloroprene	53	2.797	2.798	(0.738)	1250175	100.000	99.9955	
	27 1,1-Dichloroethane	63	2.813	2.814	(0.742)	1578909	100.000	99.5155	
	28 Acrylonitrile	53	2.841	2.841	(0.750)	1507194	500.000	500.938	
	29 Ethyl tert-butyl ether	59	2.912	2.912	(0.768)	2666771	100.000	100.885	
	30 n-Propanol	41	2.912	2.912	(0.768)	551945	1000.00	999.591(Q)	
	31 Vinyl Acetate	86	2.928	2.929	(0.773)	183691	100.000	100.821(Q)	
	32 cis-1,2-Dichloroethene	61	3.097	3.098	(0.817)	1226049	100.000	99.8989	
	33 2,2-Dichloropropane	77	3.157	3.158	(0.833)	1064710	100.000	100.500	
	34 Bromochloromethane	128	3.206	3.207	(0.846)	364141	100.000	101.645	
	35 Cyclohexane	84	3.212	3.212	(0.847)	1249288	100.000	99.6048	
	36 Chloroform	83	3.234	3.234	(0.853)	1540194	100.000	99.4325	
	37 Ethyl Acetate	43	3.277	3.278	(0.865)	769797	100.000	99.6902	
	38 Methyl acrylate	55	3.294	3.294	(0.869)	742211	100.000	100.020	
	39 Carbon Tetrachloride	117	3.321	3.321	(0.876)	885031	100.000	100.294	
	40 Tetrahydrofuran	42	3.326	3.327	(0.878)	1161705	500.000	495.562	
$	41 Dibromofluoromethane	113	3.337	3.338	(0.881)	674384	100.000	100.032	
	42 1,1,1-Trichloroethane	97	3.359	3.360	(0.886)	1179004	100.000	100.874	
	43 2-Butanone	72	3.397	3.398	(0.896)	494064	500.000	495.926	
	44 1,1-Dichloropropene	75	3.425	3.425	(0.904)	1162417	100.000	99.5864	
	45 1-Chlorobutane	41	3.446	3.447	(0.909)	920244	100.000	99.4689	
	46 Heptane	71	3.512	3.512	(0.927)	554933	100.000	101.365	
	47 Benzene	78	3.566	3.567	(0.941)	3624552	100.000	99.6693	
	48 Propionitrile	54	3.577	3.578	(0.944)	545446	500.000	494.292	
	49 Methacrylonitrile	67	3.583	3.583	(0.945)	340572	100.000	98.9728	
	50 tert-Amyl methyl ether	73	3.599	3.600	(0.950)	2126212	100.000	100.561	
$	51 1,2-Dichloroethane-d4	65	3.637	3.638	(0.960)	842996	100.000	98.4101	
	52 1,2-Dichloroethane	62	3.676	3.676	(0.970)	1081520	100.000	99.9602	
	53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	213389	500.000	497.132	
	54 Isobutyl alcohol	43	3.632	3.632	(0.958)	217197	1000.00	962.747(M)	
*	55 Fluorobenzene	96	3.790	3.791	(1.000)	1065701	30.0000		
	56 Diisobutylene	57	3.796	3.796	(1.001)	2188173	100.000	100.003	
	57 Trichloroethene	95	3.883	3.883	(1.024)	835664	100.000	99.7120	
	58 Methyl cyclohexane	83	3.883	3.883	(0.674)	1359316	100.000	99.5157	
	59 tert-Amyl Ethylether	59	3.987	3.987	(1.052)	1970754	100.000	101.139	
	60 Dibromomethane	93	4.139	4.139	(1.092)	466237	100.000	100.487	
	61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	944849	100.000	100.371	
	62 Bromodichloromethane	83	4.221	4.222	(1.114)	1038921	100.000	100.661	
	63 Methyl methacrylate	41	4.292	4.293	(1.132)	732609	100.000	101.373	
	64 1,4-Dioxane	88	4.336	4.336	(1.144)	82482	2500.00	2489.20	
	65 2-Chloroethylvinyl ether	63	4.549	4.549	(1.200)	453946	100.000	101.327	
	66 cis-1,3-Dichloropropene	75	4.603	4.604	(0.799)	1400358	100.000	100.966	
	67 Octane	85	4.609	4.609	(0.800)	378288	100.000	101.709	
$	68 Toluene-d8	98	4.723	4.724	(0.820)	2897024	100.000	99.9538	
	69 Toluene	92	4.756	4.756	(0.826)	2077837	100.000	99.3807	
	70 Chloroacetonitrile	48	4.832	4.833	(0.839)	102739	500.000	498.761	
	71 2-Nitropropane	41	4.909	4.909	(0.852)	894738	500.000	498.743	
	72 1,1-Dichloro-2-Propanone	63	4.920	4.920	(0.854)	79599	500.000	497.614	
	73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.986	(0.865)	4010355	500.000	496.247	
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	546355	100.000	98.5816	
	75 trans-1,3-Dichloropropene	75	5.012	5.013	(0.870)	1219667	100.000	100.837	

Data File: 316102458.D Page 3
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.094	5.095	(0.884)	1118231	100.000	100.367	
	77 1,1,2-Trichloroethane	83	5.121	5.122	(0.889)	599100	100.000	99.3617	
	78 Chlorodibromomethane	129	5.247	5.247	(0.911)	658585	100.000	100.956	
	79 1,3-Dichloropropane	76	5.312	5.313	(0.922)	1296618	100.000	99.3658(M)	IH
	80 1,2-Dibromoethane	107	5.422	5.422	(0.941)	638011	100.000	99.9865	
	81 2-Hexanone	43	5.542	5.542	(0.962)	2638187	500.000	498.469	
	82 1-Chlorohexane	91	5.738	5.739	(0.996)	1148028	100.000	101.688	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	463543	30.0000		
	84 Chlorobenzene	112	5.776	5.777	(1.003)	2085403	100.000	99.5856	
	85 Ethylbenzene	106	5.782	5.782	(1.004)	1160517	100.000	99.7172	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.815	(1.009)	633015	100.000	100.305	
	87 mp-Xylene	106	5.880	5.880	(1.021)	2820349	200.000	199.568	
	88 o-Xylene	106	6.196	6.197	(1.076)	1337713	100.000	100.756	
	89 Styrene	104	6.235	6.235	(0.829)	2229709	100.000	100.659	
	90 Bromoform	173	6.262	6.262	(0.832)	304730	100.000	101.244	
	91 Isopropylbenzene	105	6.426	6.426	(0.854)	3390813	100.000	100.368	
$	92 4-Bromofluorobenzene	174	6.649	6.650	(0.884)	622168	100.000	101.236	
	93 Bromobenzene	156	6.731	6.732	(0.895)	697559	100.000	100.220	
	94 n-Propylbenzene	120	6.737	6.737	(0.896)	879265	100.000	100.283	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.792	(0.903)	801505	100.000	99.3529	
	96 o-Chlorotoluene	91	6.868	6.868	(0.913)	2656626	100.000	100.384	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.915)	2609136	100.000	100.491	
	98 1,2,3-Trichloropropane	110	6.906	6.906	(0.918)	232074	100.000	99.0532	
	99 trans-1,4-Dichloro-2-butene	53	6.933	6.933	(0.922)	225836	100.000	100.833(Q)	
M	100 1,2-Dichloroethene, Total	61				2443577	200.000	200.361	
	101 p-Chlorotoluene	91	6.993	6.994	(0.930)	2443215	100.000	100.674	
	102 tert-Butylbenzene	134	7.140	7.141	(0.949)	568338	100.000	100.552	
	103 Pentachloroethane	117	7.162	7.163	(0.952)	497140	100.000	101.119	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.956)	2603624	100.000	100.665	
	105 sec-Butylbenzene	105	7.277	7.277	(0.967)	3156254	100.000	100.901	
	106 p-Isopropyltoluene	134	7.391	7.392	(0.983)	641449	100.000	101.027	
	107 1,3-Dichlorobenzene	146	7.462	7.463	(0.992)	1242422	100.000	100.742	
*	108 1,4-Dichlorobenzene-d4	152	7.522	7.523	(1.000)	297172	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	7.533	7.534	(1.001)	1262196	100.000	100.428	
	110 Benzyl Chloride	126	7.735	7.736	(1.028)	193855	100.000	102.375(Q)	
	111 n-Butylbenzene	134	7.735	7.736	(1.028)	550620	100.000	101.487	
	112 Hexachloroethane	117	7.850	7.850	(1.044)	397551	100.000	102.592	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.047)	1116181	100.000	100.443	
	114 1,2-Dibromo-3-chloropropane	75	8.543	8.542	(1.136)	99214	100.000	100.188	
	115 Nitrobenzene	77	9.028	9.029	(1.200)	61429	1000.00	965.255	
	116 Hexachlorobutadiene	225	9.088	9.089	(1.208)	208989	100.000	101.121	
	117 1,2,4-Trichlorobenzene	180	9.116	9.116	(1.212)	498925	100.000	101.097	
	118 Naphthalene	128	9.394	9.394	(1.249)	995682	100.000	101.287	
	119 1,2,3-Trichlorobenzene	180	9.547	9.547	(1.269)	320758	100.000	99.3515	
M	120 1,3-Dichloropropene, Total	75				2620025	200.000	201.803	
M	121 Total Xylenes	106				4158062	300.000	300.324	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 316102458.D Page 4
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 25-OCT-2016
Lab File ID: 316102458.D Calibration Time: 00:52
Lab Smp Id: 1238
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: CJG
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	1065701	5.19
83 Chlorobenzene-d5	432864	216432	865728	463543	7.09
108 1,4-Dichlorobenze	273837	136919	547674	297172	8.52

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102458.D Page 5
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1238
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	100.069	
74-87-3	Chloromethane	100.063	
75-01-4	Vinyl Chloride	100.254	
74-83-9	Bromomethane	104.093	
75-00-3	Chloroethane	100.170	
109-66-0	Pentane	99.2612	
75-69-4	Trichlorofluoromethane	99.3173	
75-43-4	Dichlorofluoromethane	100.065	
60-29-7	Ethyl Ether	98.4824	
75-35-4	1,1-Dichloroethene	99.9438	
76-13-1	Freon 113	99.4589	
75-15-0	Carbon Disulfide	101.392	
74-88-4	Iodomethane	105.804	
107-02-8	Acrolein	1000.23	
67-63-0	Isopropyl Alcohol	495.120	
107-05-1	3-Chloro-1-propene	101.564	
75-09-2	Methylene Chloride	100.085	
67-64-1	Acetone	493.364	
79-20-9	Methyl acetate	98.9751	
156-60-5	trans-1,2-Dichloroethene	100.462	
110-54-3	Hexane	100.431	
1634-04-4	Methyl t-Butyl Ether	100.084	
75-65-0	tert.- Butyl Alcohol	504.132	
75-05-8	Acetonitrile	495.610	
108-20-3	Diisopropyl ether	100.507	
126-99-8	Chloroprene	99.9955	
75-34-3	1,1-Dichloroethane	99.5155	
107-13-1	Acrylonitrile	500.938	
637-92-3	Ethyl tert-butyl ether	100.885	
71-23-8	n-Propanol	999.591	
108-05-4	Vinyl Acetate	100.821	
156-59-2	cis-1,2-Dichloroethene	99.8989	
594-20-7	2,2-Dichloropropane	100.500	
74-97-5	Bromochloromethane	101.645	
110-82-7	Cyclohexane	99.6048	
67-66-3	Chloroform	99.4325	
141-78-6	Ethyl Acetate	99.6902	
96-33-3	Methyl acrylate	100.020	
56-23-5	Carbon Tetrachloride	100.294	
109-99-9	Tetrahydrofuran	495.562	
71-55-6	1,1,1-Trichloroethane	100.874	
78-93-3	2-Butanone	495.926	

Data File: 316102458.D Page 6
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1238
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
563-58-6	1,1-Dichloropropene	99.5864	
109-69-3	1-Chlorobutane	99.4689	
142-82-5	Heptane	101.365	
71-43-2	Benzene	99.6693	
107-12-0	Propionitrile	494.292	
126-98-7	Methacrylonitrile	98.9728	
994-05-8	tert-Amyl methyl ether	100.561	
107-06-2	1,2-Dichloroethane	99.9602	
75-85-4	tert-Amyl Alcohol	497.132	
78-83-1	Isobutyl alcohol	962.747	
107-39-1	Diisobutylene	100.003	
79-01-6	Trichloroethene	99.7120	
108-87-2	Methyl cyclohexane	99.5157	
919-94-8	tert-Amyl Ethylether	101.139	
74-95-3	Dibromomethane	100.487	
78-87-5	1,2-Dichloropropane	100.371	
75-27-4	Bromodichloromethane	100.661	
80-62-6	Methyl methacrylate	101.373	
123-91-1	1,4-Dioxane	2489.20	
110-75-8	2-Chloroethylvinyl ether	101.327	
10061-01-5	cis-1,3-Dichloropropene	100.966	
111-65-9	Octane	101.709	
108-88-3	Toluene	99.3807	
107-14-2	Chloroacetonitrile	498.761	
79-46-9	2-Nitropropane	498.743	
513-88-2	1,1-Dichloro-2-Propanone	497.614	
108-10-1	4-Methyl-2-Pentanone(MIBK)	496.247	
127-18-4	Tetrachloroethene	98.5816	
10061-02-6	trans-1,3-Dichloropropene	100.837	
97-63-2	Ethyl Methacrylate	100.367	
79-00-5	1,1,2-Trichloroethane	99.3617	
124-48-1	Chlorodibromomethane	100.956	
142-28-9	1,3-Dichloropropane	99.3658	
106-93-4	1,2-Dibromoethane	99.9865	
591-78-6	2-Hexanone	498.469	
544-10-5	1-Chlorohexane	101.688	
108-90-7	Chlorobenzene	99.5856	
100-41-4	Ethylbenzene	99.7172	
630-20-6	1,1,1,2-Tetrachloroethane	100.305	
108383/106423	m-p-Xylene	199.568	
95-47-6	o-Xylene	100.756	
100-42-5	Styrene	100.659	

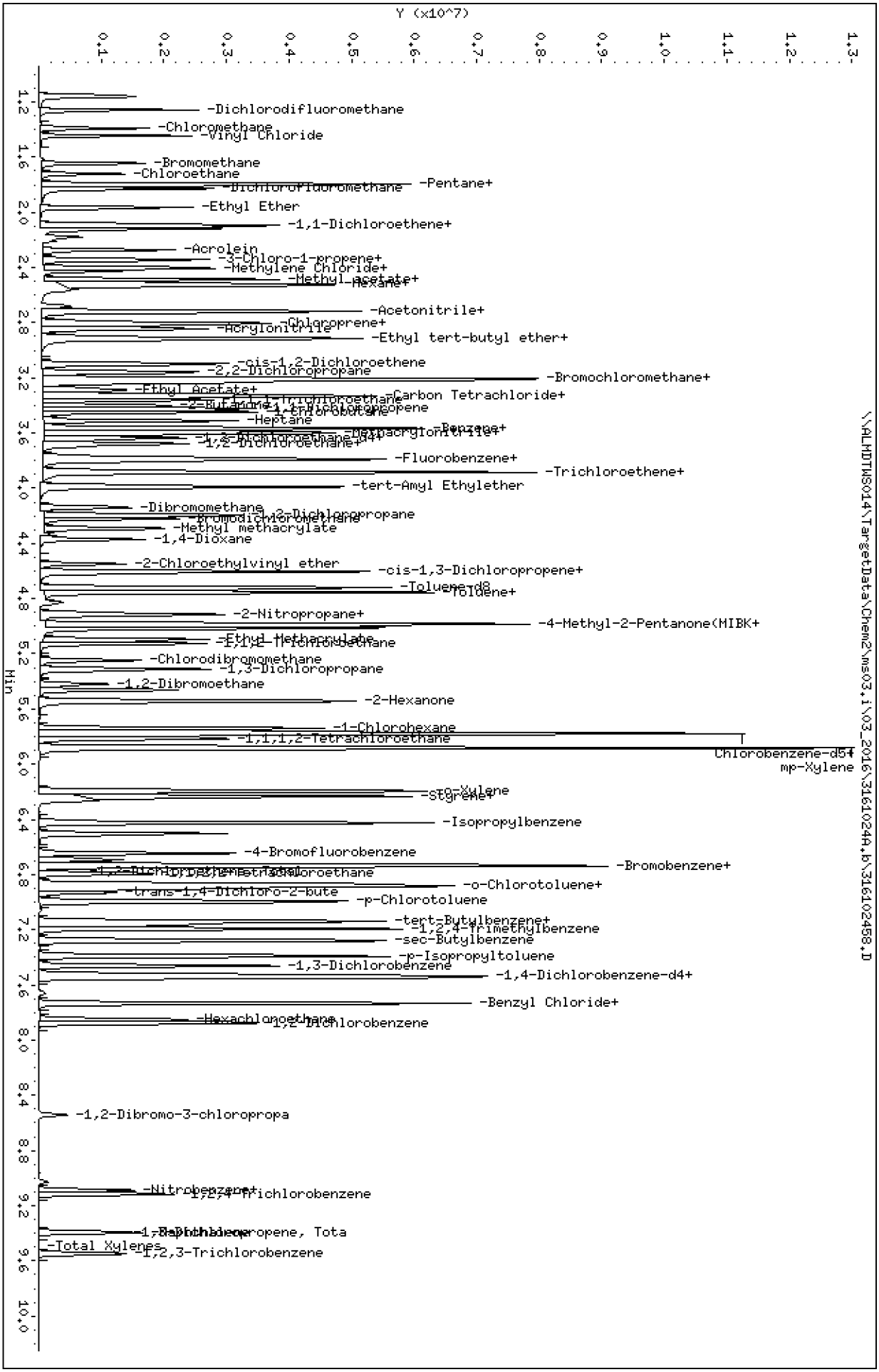
Data File: 316102458.D Page 7
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1238
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-25-2	Bromoform	101.244	
98-82-8	Isopropylbenzene	100.368	
108-86-1	Bromobenzene	100.220	
103-65-1	n-Propylbenzene	100.283	
79-34-5	1,1,2,2-Tetrachloroethane	99.3529	
95-49-8	o-Chlorotoluene	100.384	
108-67-8	1,3,5-Trimethylbenzene	100.491	
96-18-4	1,2,3-Trichloropropane	99.0532	
110-57-6	trans-1,4-Dichloro-2-butene	100.833	
540-59-0	1,2-Dichloroethene, Total	200.361	
106-43-4	p-Chlorotoluene	100.674	
98-06-6	tert-Butylbenzene	100.552	
76-01-7	Pentachloroethane	101.119	
95-63-6	1,2,4-Trimethylbenzene	100.665	
135-98-8	sec-Butylbenzene	100.901	
99-87-6	p-Isopropyltoluene	101.027	
541-73-1	1,3-Dichlorobenzene	100.742	
106-46-7	1,4-Dichlorobenzene	100.428	
100-44-7	Benzyl Chloride	102.375	
104-51-8	n-Butylbenzene	101.487	
67-72-1	Hexachloroethane	102.592	
95-50-1	1,2-Dichlorobenzene	100.443	
96-12-8	1,2-Dibromo-3-chloropropane	100.188	
98-95-3	Nitrobenzene	965.255	
87-68-3	Hexachlorobutadiene	101.121	
120-82-1	1,2,4-Trichlorobenzene	101.097	
91-20-3	Naphthalene	101.287	
87-61-6	1,2,3-Trichlorobenzene	99.3515	
542-75-6	1,3-Dichloropropene, Total	201.803	
1330-20-7	Total Xylenes	300.324	
1868-53-7	Dibromofluoromethane	100.032	
17060-07-0	1,2-Dichloroethane-d4	98.4101	
2037-26-5	Toluene-d8	99.9538	
460-00-4	4-Bromofluorobenzene	101.236	


Y (x10^7)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
Min
1.2
1.6
2.0
2.4
2.8
3.2
3.6
4.0
4.4
4.8
5.2
5.6
6.0
6.4
6.8
7.2
7.6
8.0
8.4
8.8
9.2
9.6
10.0
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Acrylonitrile
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Carbon Tetrachloride+
-Heptane
-Benzene+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK+
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-Total Xylenes
-1,2,3-Trichlorobenzene
Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D
Date : 25-OCT-2016 01:14
Client ID:
Sample Info: 1238;;1;1;5;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S8.D
Page 8

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 9

Date : 25-OCT-2016 01:14

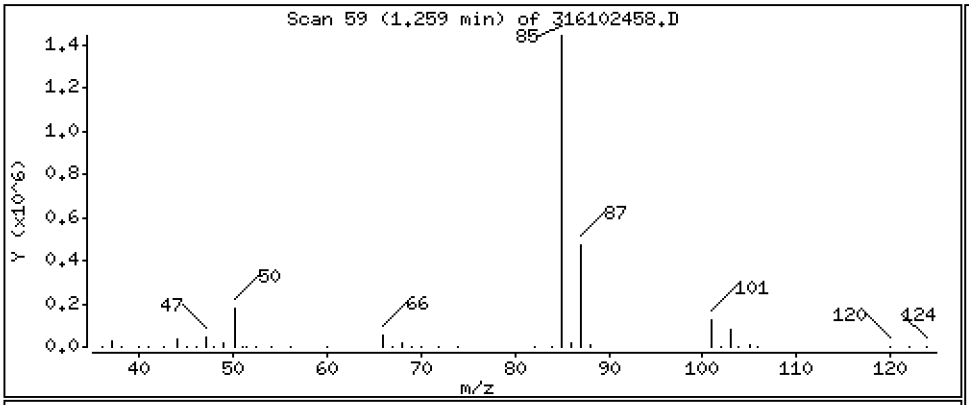
Client ID: Instrument: ms03.i

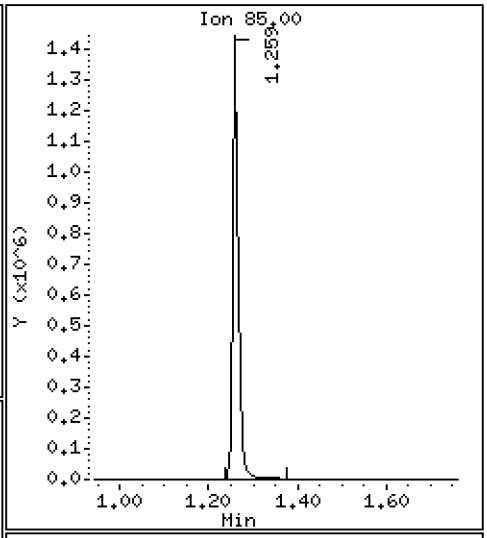
Sample Info: 1238;;1;1;5;;;

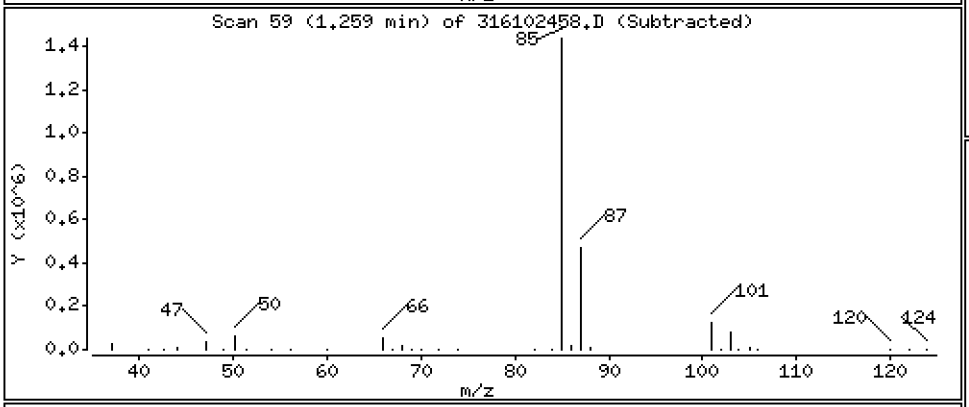
Purge Volume: 5.0 Operator: CJG

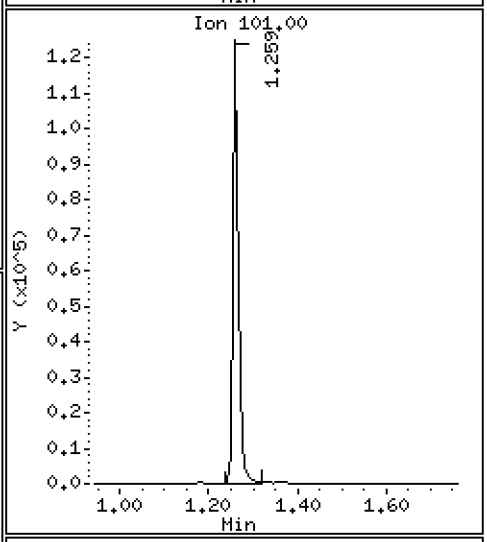
Column phase: DB-VRX Column diameter: 0.25

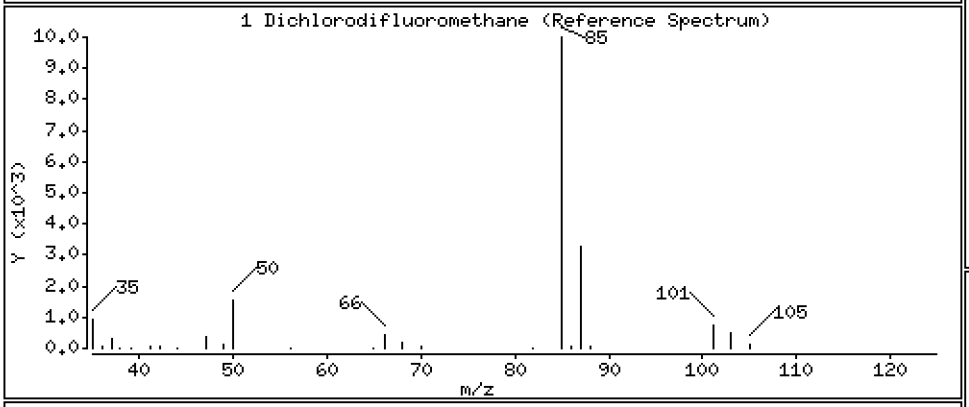
1 Dichlorodifluoromethane Concentration: 100.069 ug/L

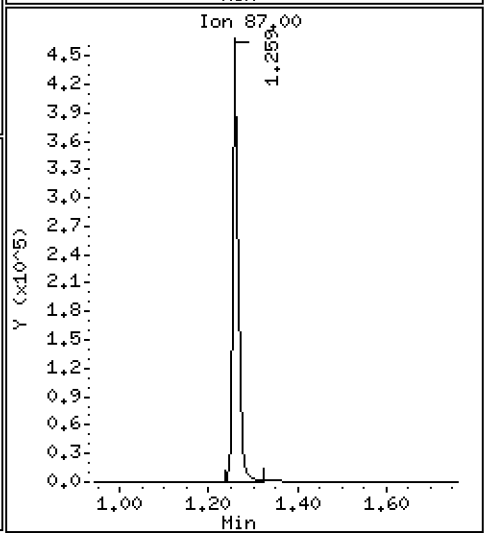


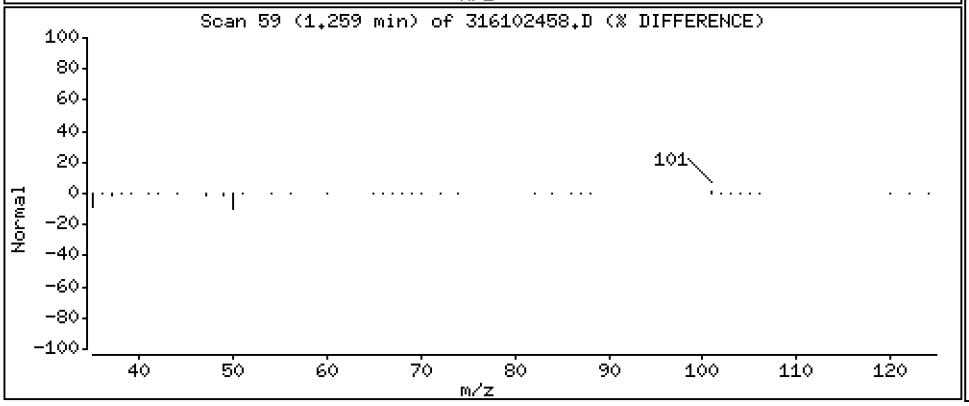












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 10

Date : 25-OCT-2016 01:14

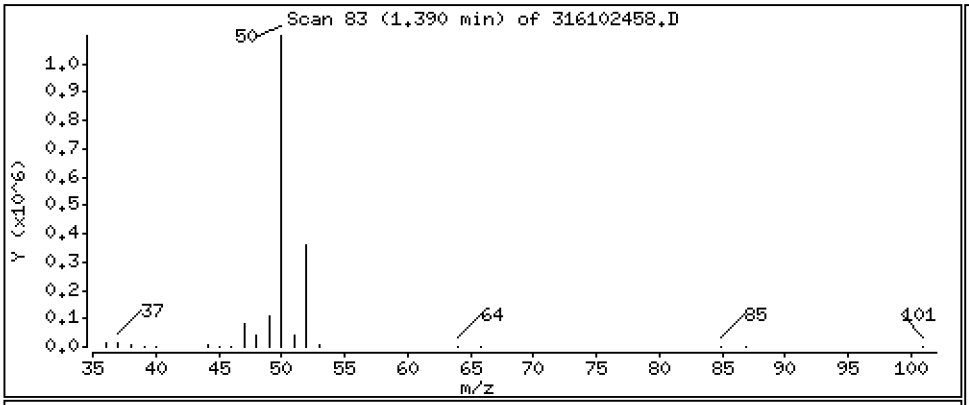
Client ID: Instrument: ms03.i

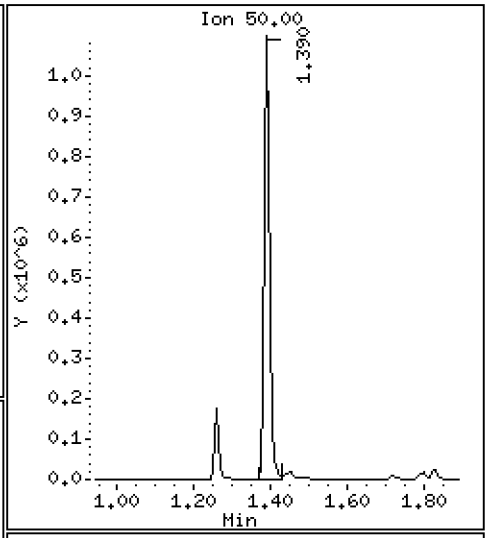
Sample Info: 1238;;1;1;5;;;

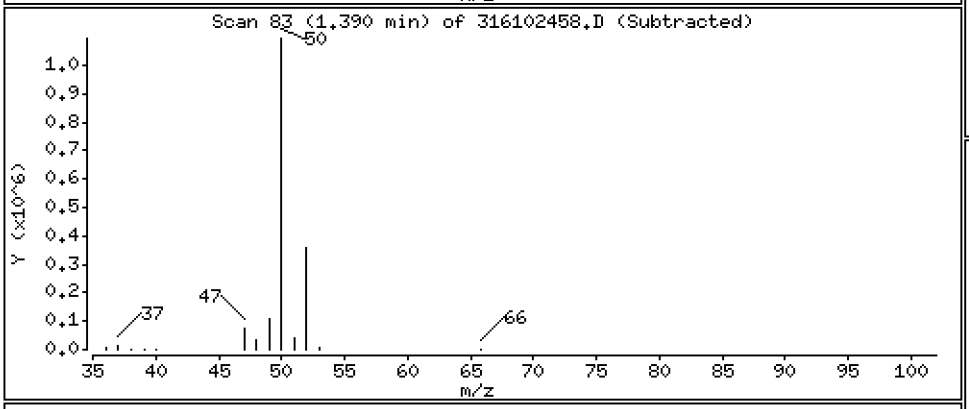
Purge Volume: 5.0 Operator: CJG

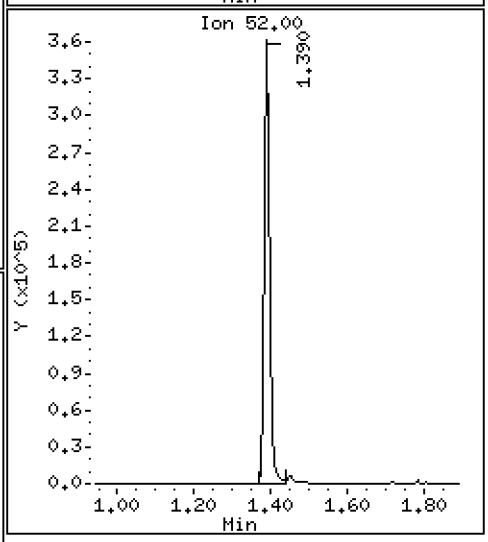
Column phase: DB-VRX Column diameter: 0.25

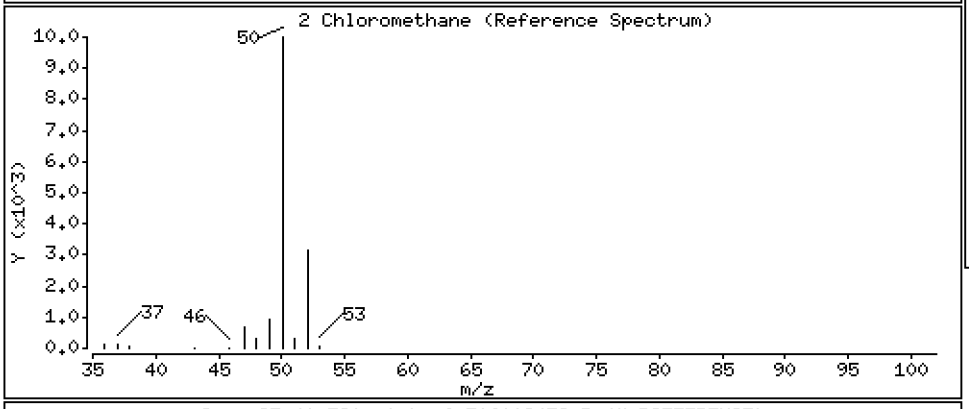
2 Chloromethane Concentration: 100.063 ug/L

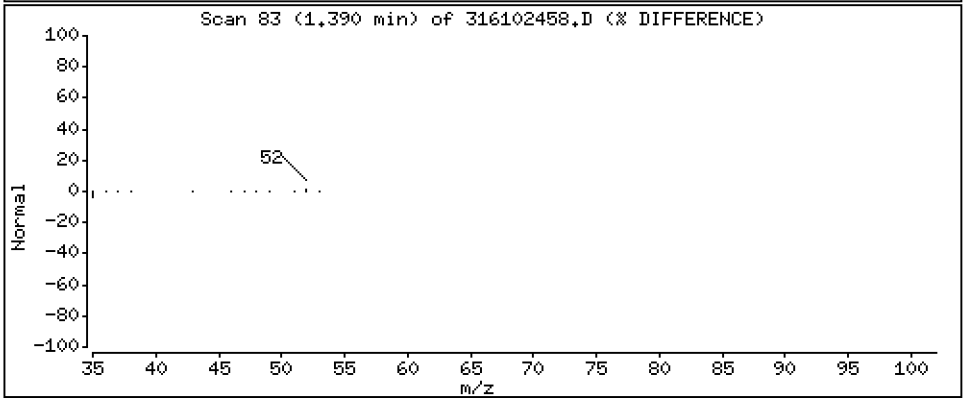












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 11

Date : 25-OCT-2016 01:14

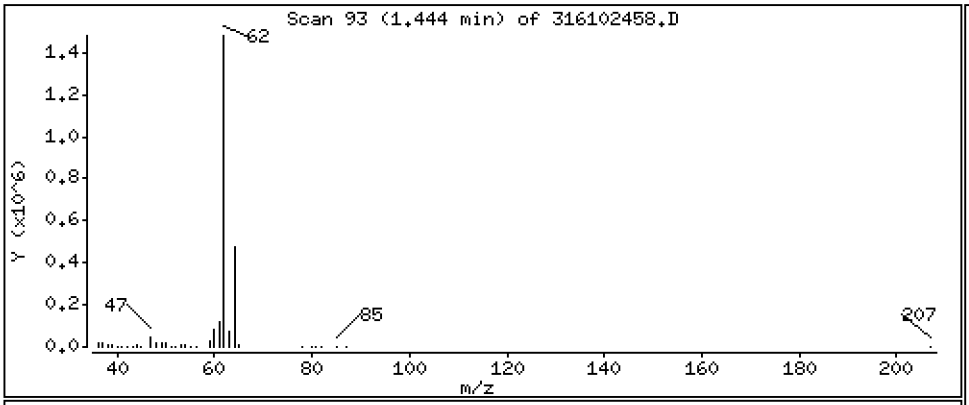
Client ID: Instrument: ms03.i

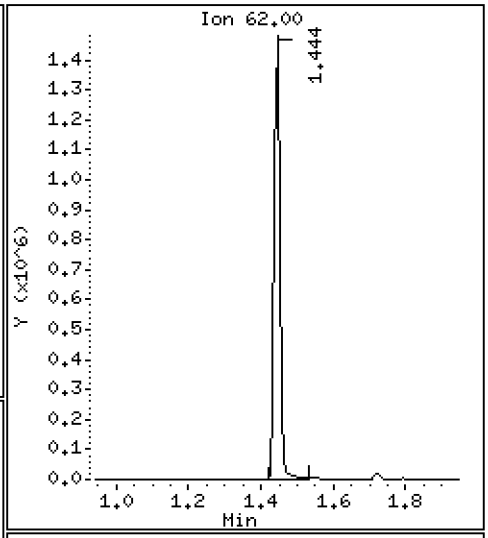
Sample Info: 1238;;1;1;5;;;

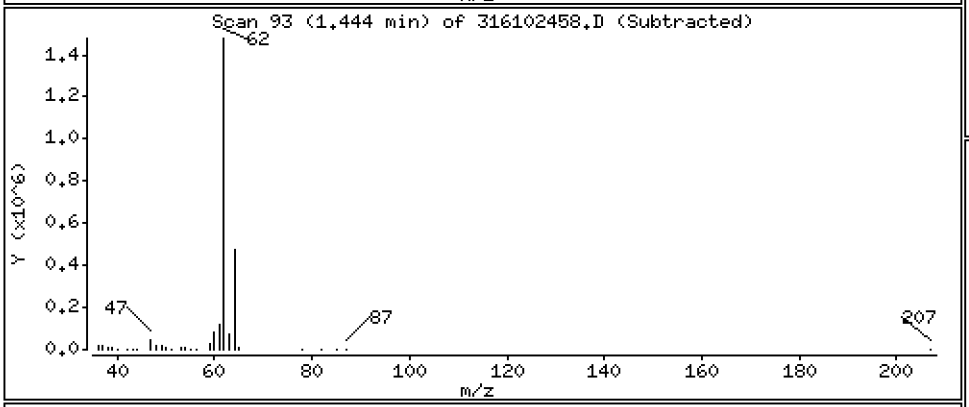
Purge Volume: 5.0 Operator: CJG

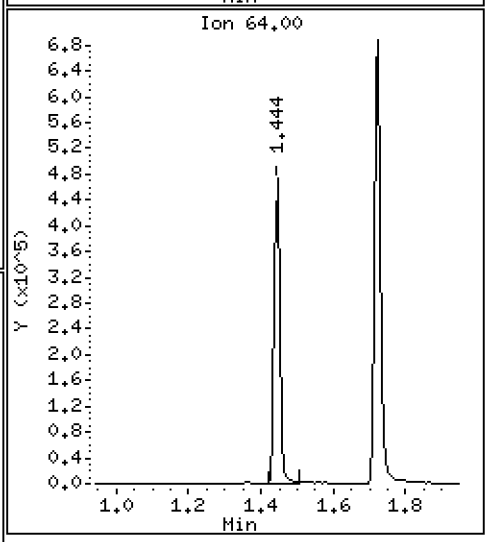
Column phase: DB-VRX Column diameter: 0.25

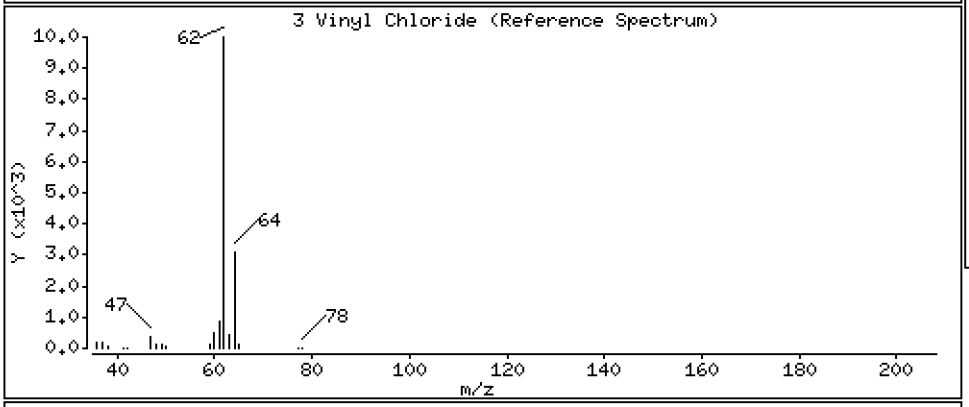
3 Vinyl Chloride Concentration: 100.254 ug/L

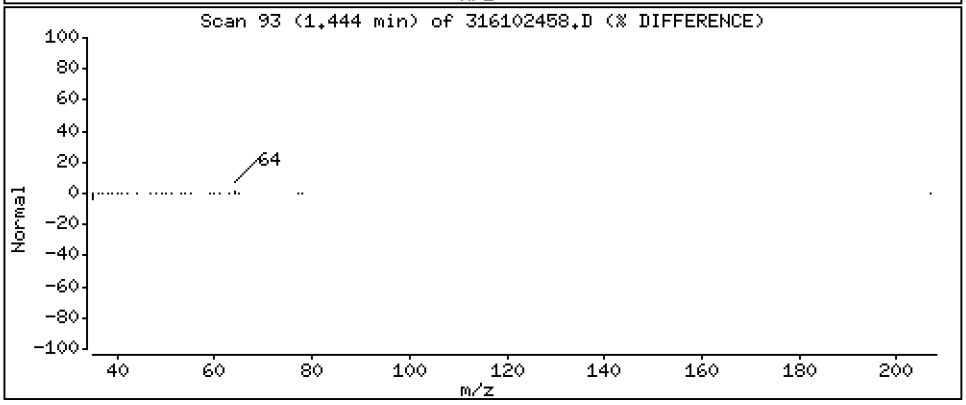












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 12

Date : 25-OCT-2016 01:14

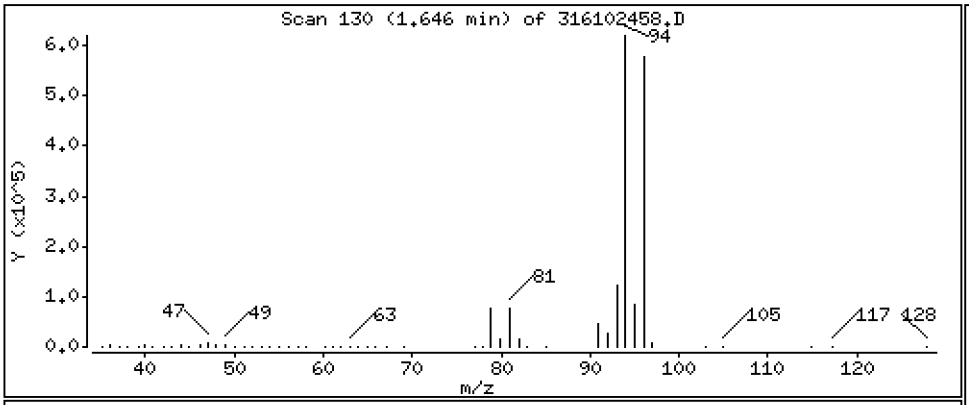
Client ID: Instrument: ms03.i

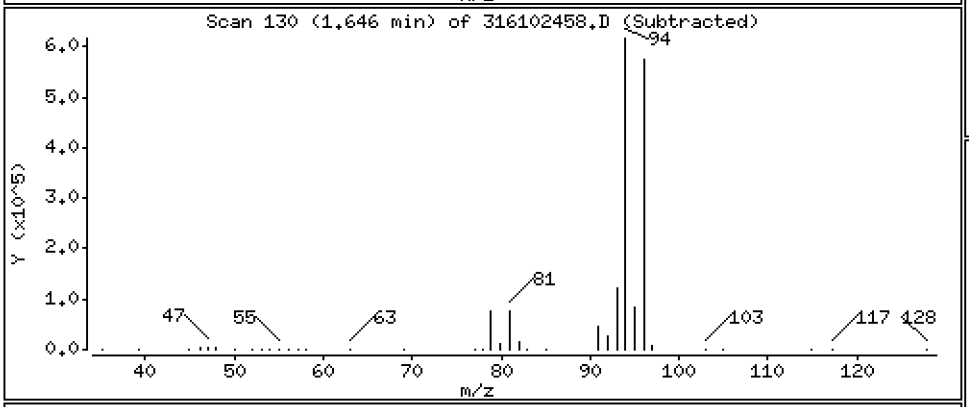
Sample Info: 1238;;1;1;5;;;

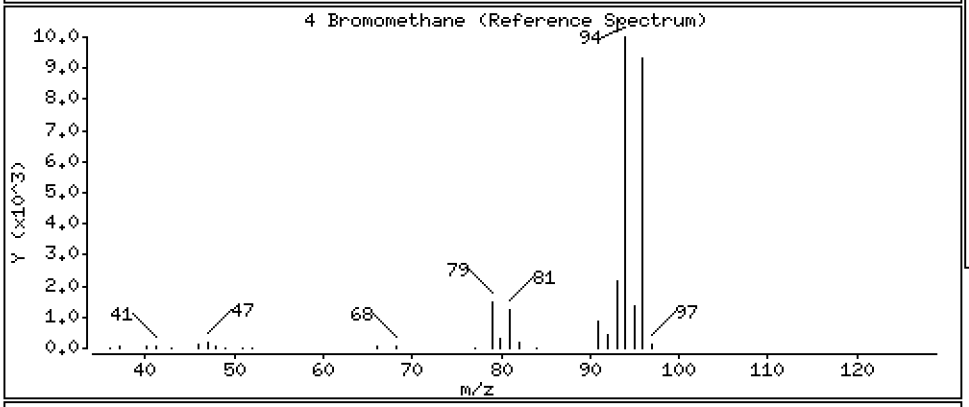
Purge Volume: 5.0 Operator: CJG

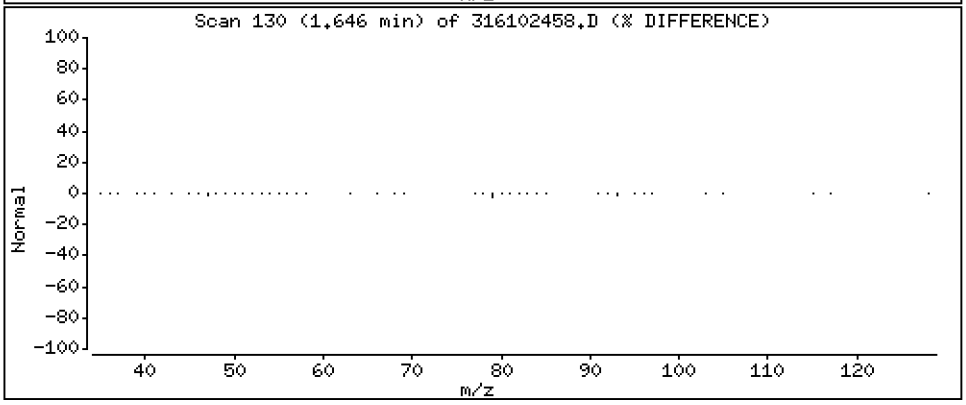
Column phase: DB-VRX Column diameter: 0.25

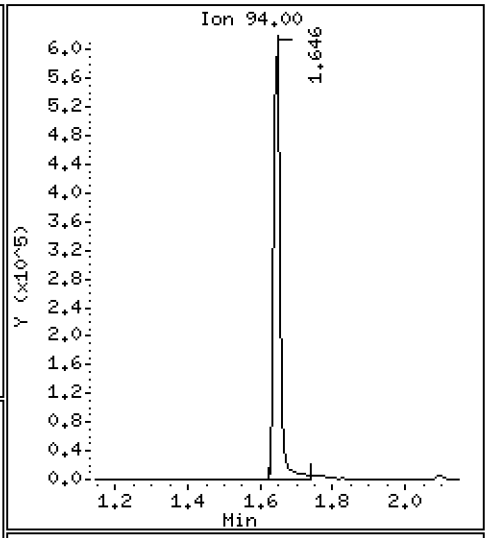
4 Bromomethane Concentration: 104.093 ug/L

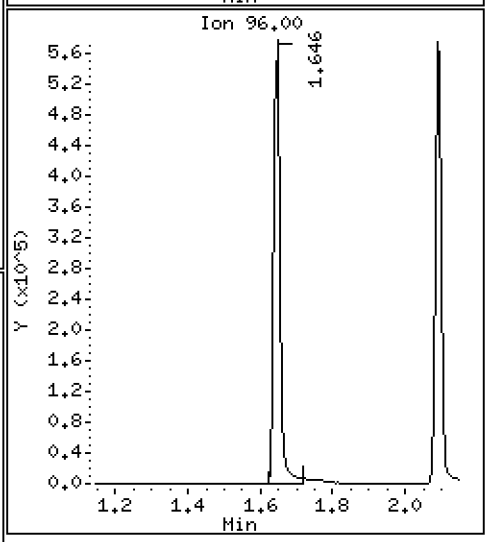












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 13

Date : 25-OCT-2016 01:14

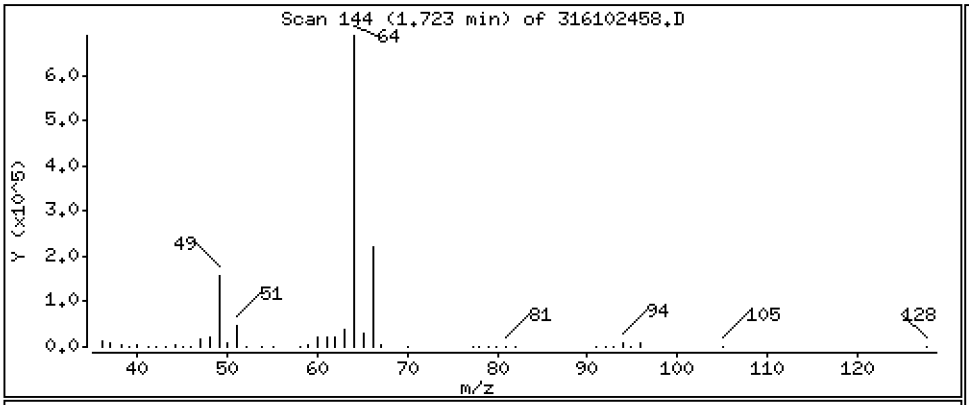
Client ID: Instrument: ms03.i

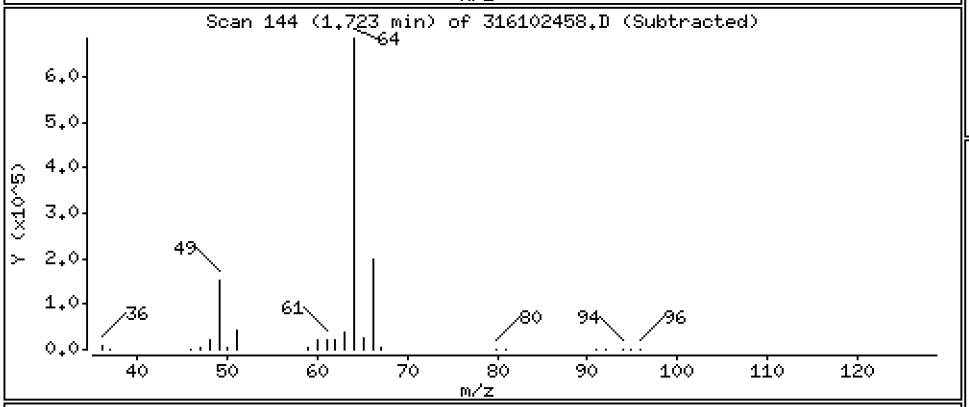
Sample Info: 1238;;1;1;5;;;

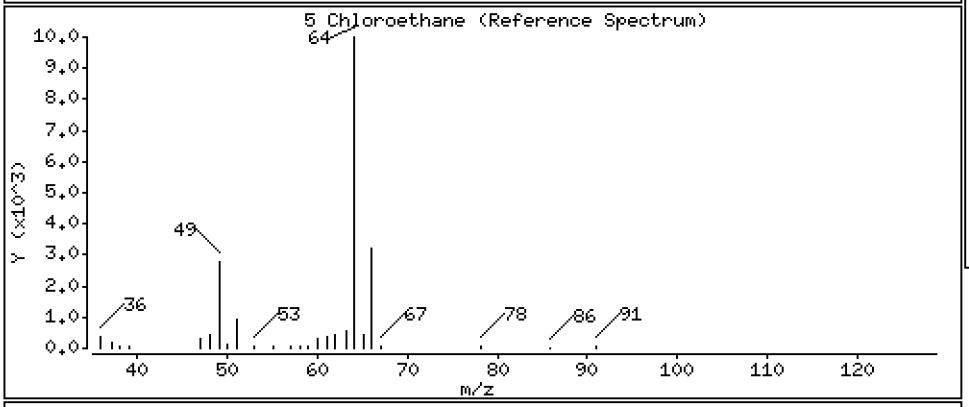
Purge Volume: 5.0 Operator: CJG

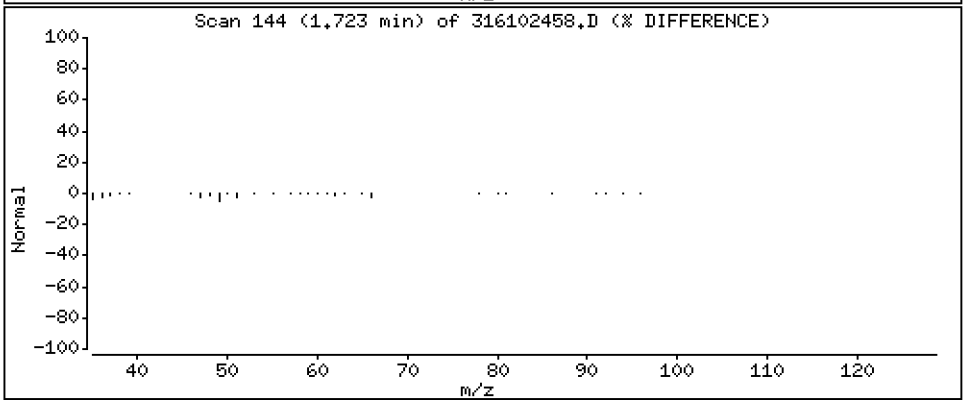
Column phase: DB-VRX Column diameter: 0.25

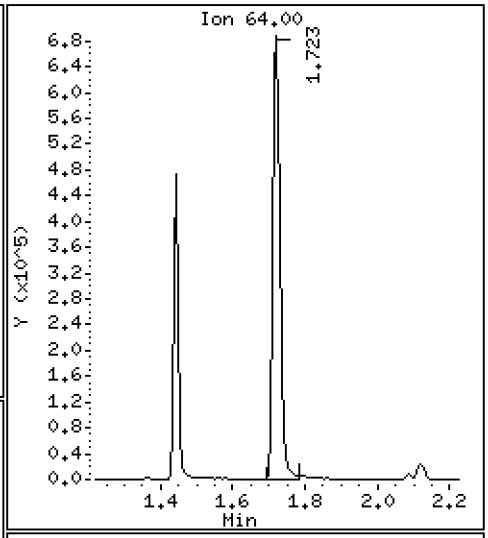
5 Chloroethane Concentration: 100.170 ug/L

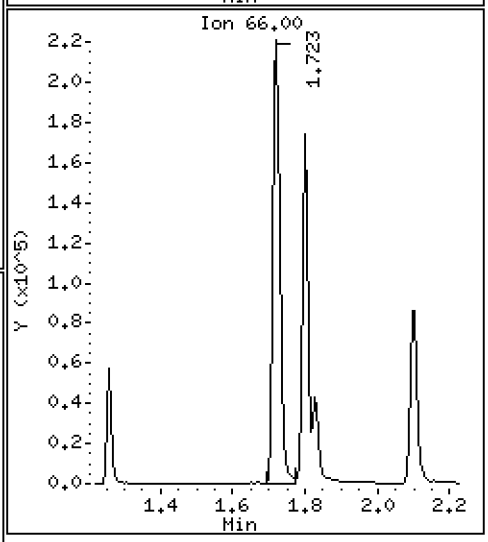












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 14

Date : 25-OCT-2016 01:14

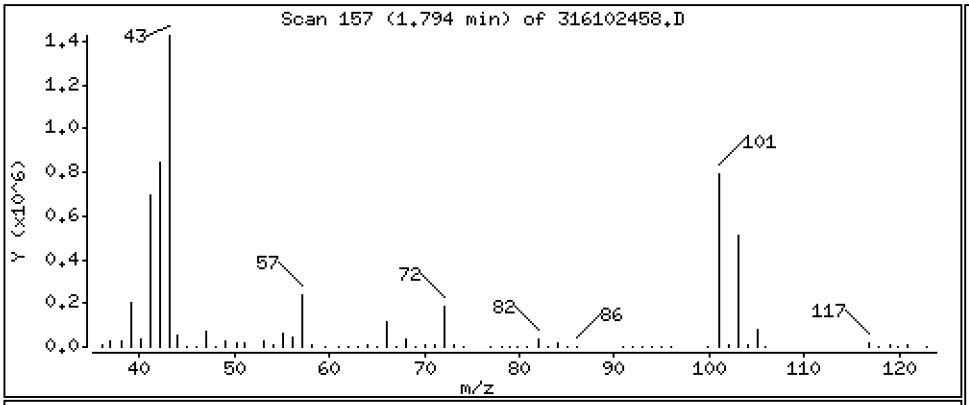
Client ID: Instrument: ms03.i

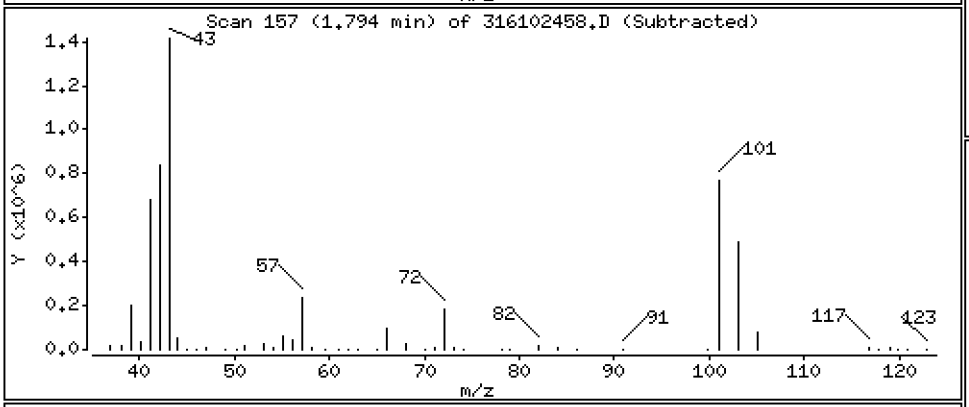
Sample Info: 1238;;1;1;5;;;

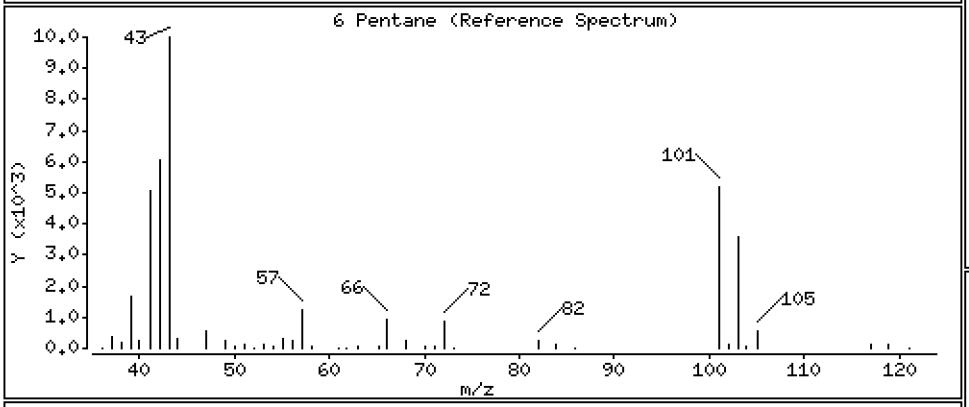
Purge Volume: 5.0 Operator: CJG

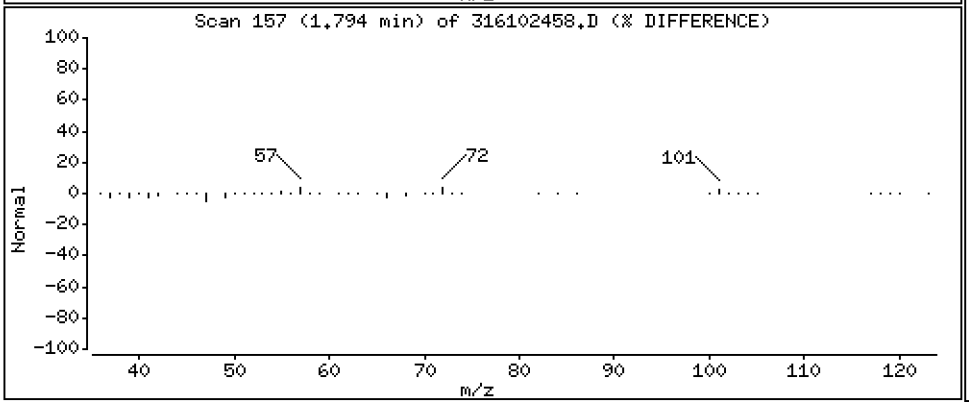
Column phase: DB-VRX Column diameter: 0.25

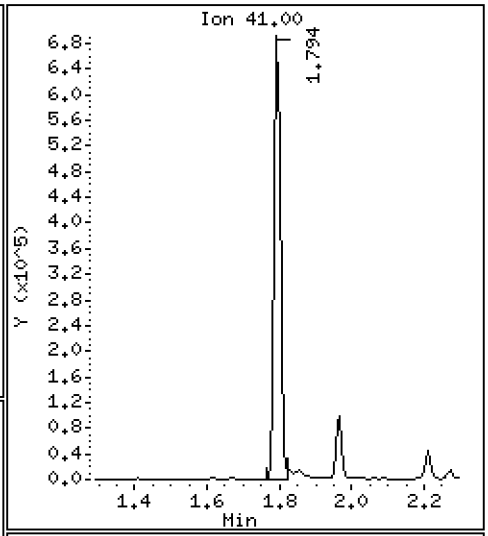
6 Pentane Concentration: 99.2612 ug/L

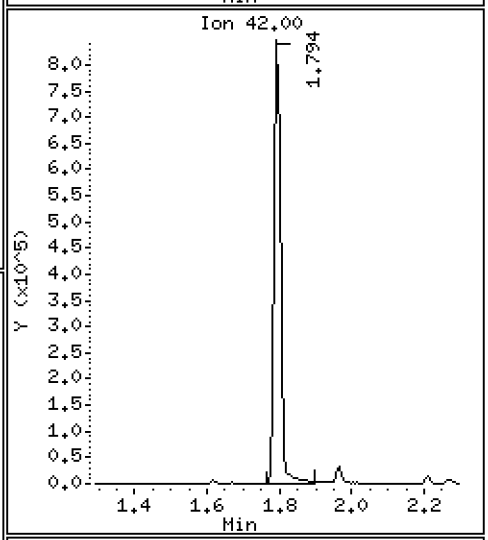


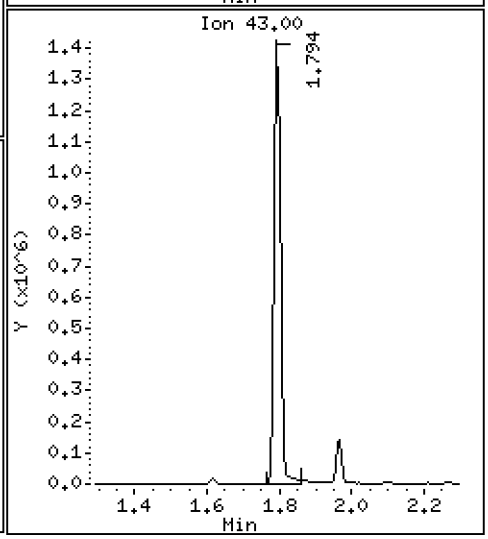












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 15

Date : 25-OCT-2016 01:14

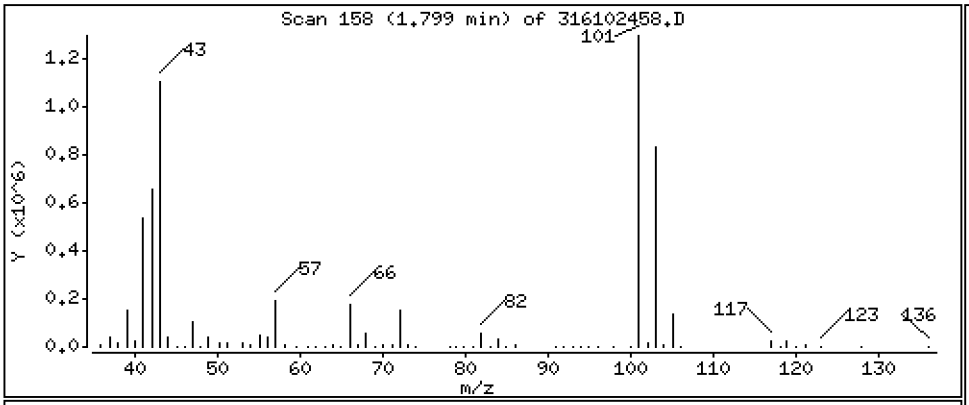
Client ID: Instrument: ms03.i

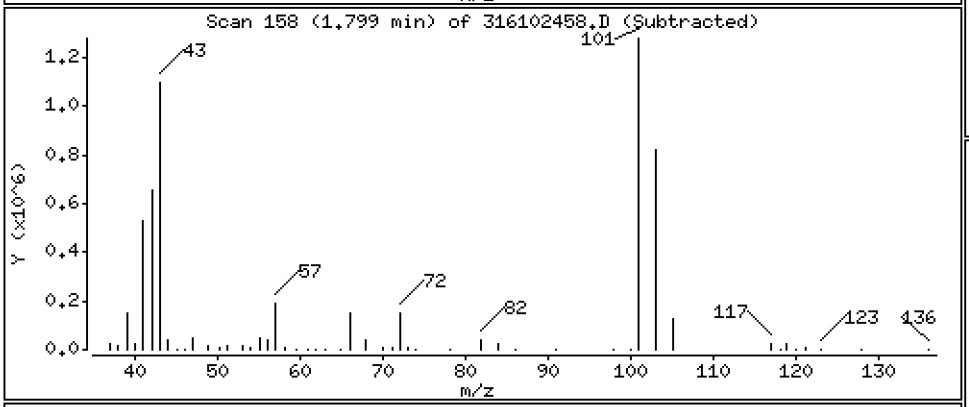
Sample Info: 1238;;1;1;5;;;

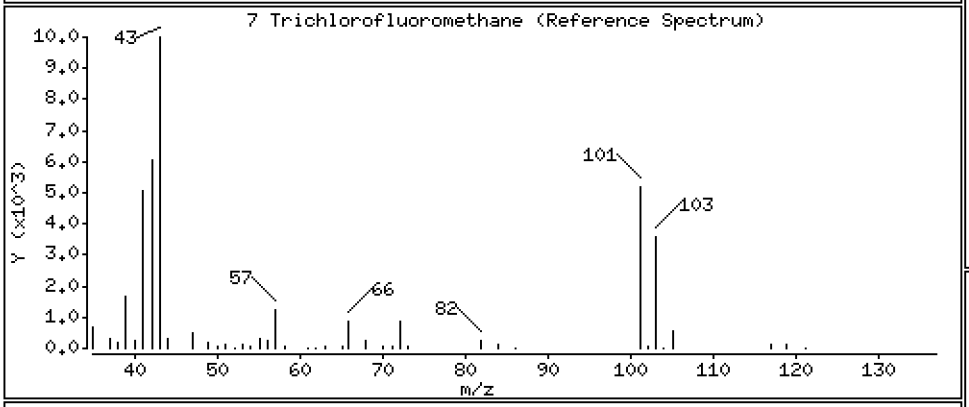
Purge Volume: 5.0 Operator: CJG

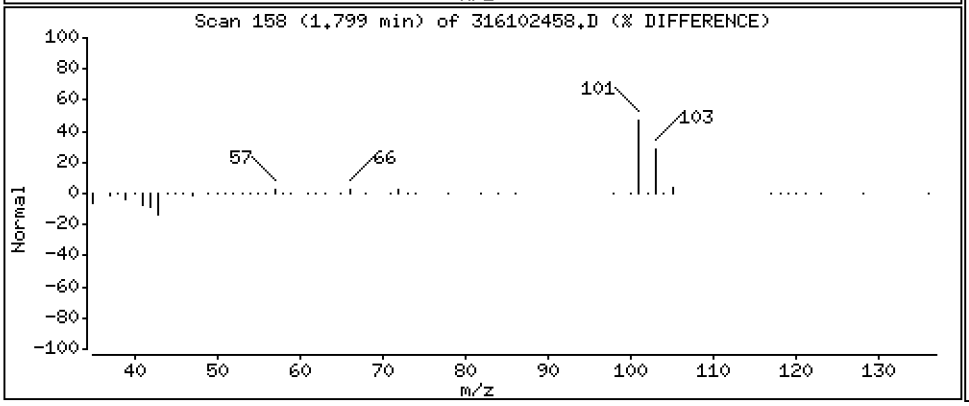
Column phase: DB-VRX Column diameter: 0.25

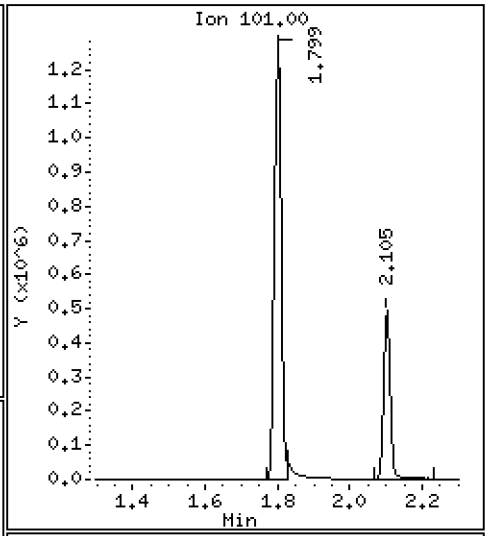
7 Trichlorofluoromethane Concentration: 99.3173 ug/L

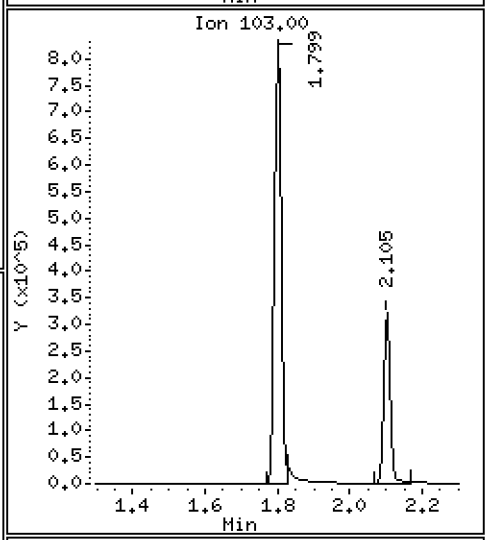


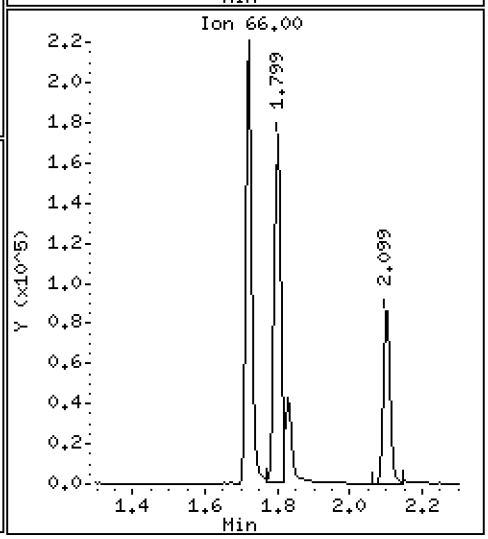












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 16

Date : 25-OCT-2016 01:14

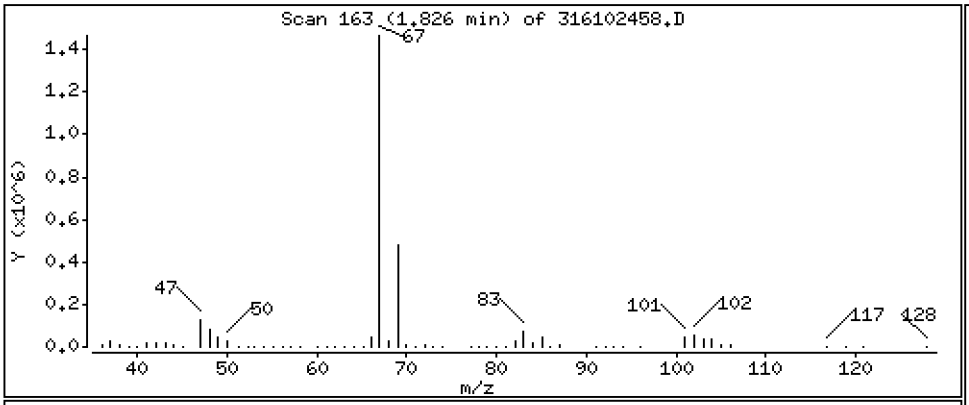
Client ID: Instrument: ms03.i

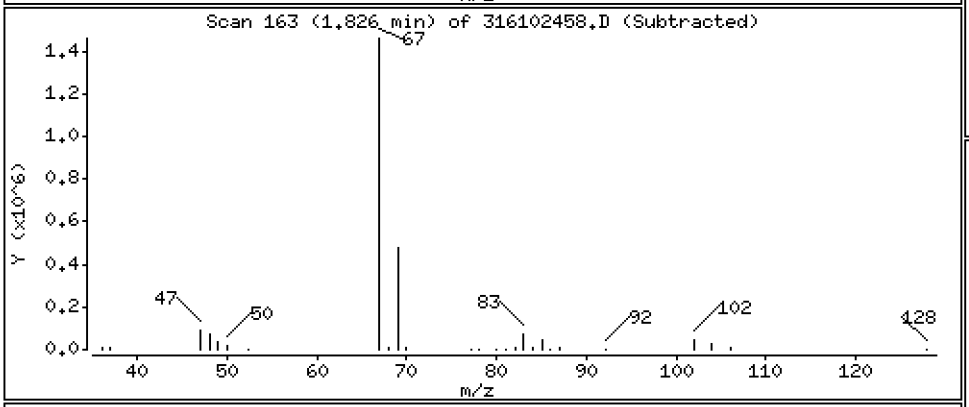
Sample Info: 1238;;1;1;5;;;

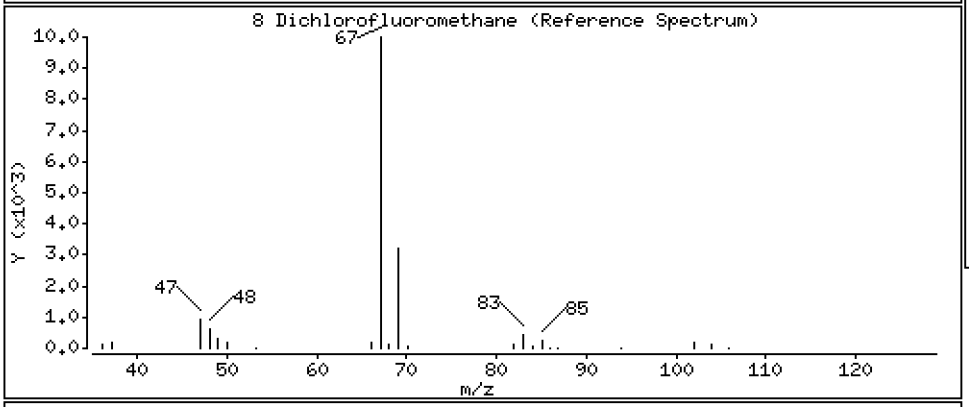
Purge Volume: 5.0 Operator: CJG

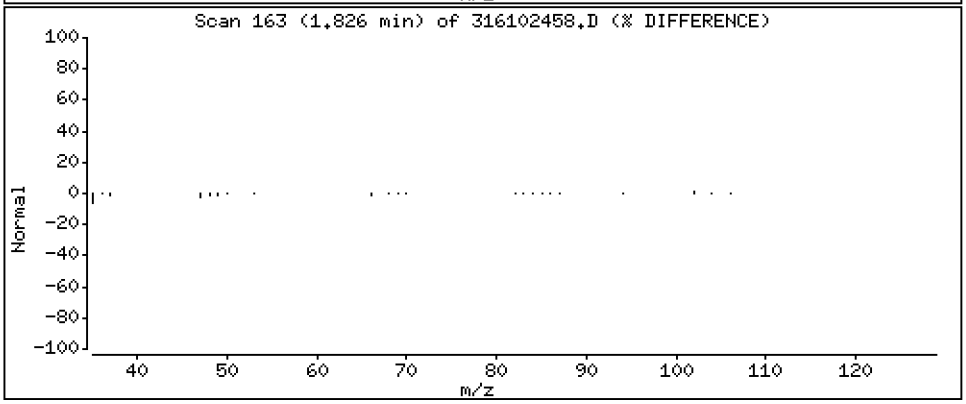
Column phase: DB-VRX Column diameter: 0.25

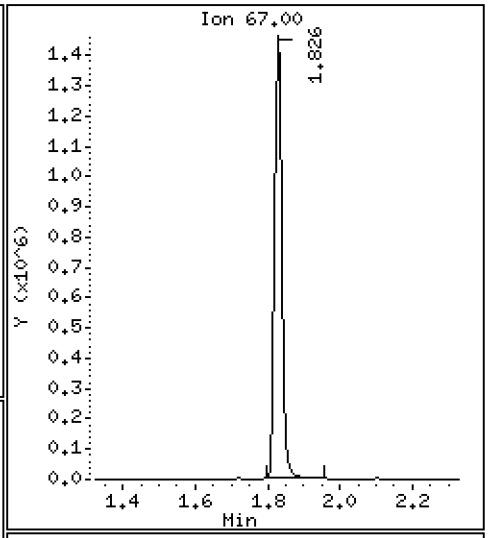
8 Dichlorofluoromethane Concentration: 100.065 ug/L

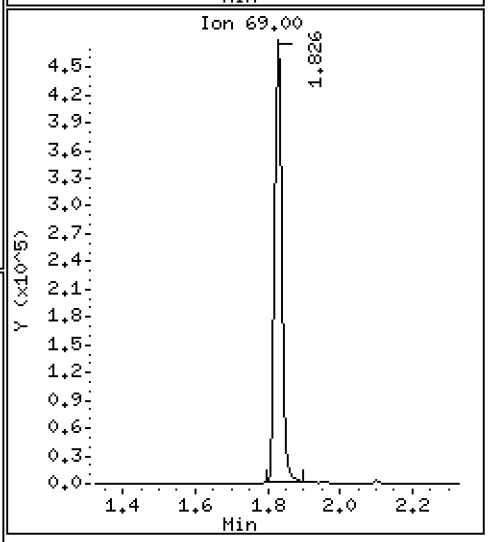












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 17

Date : 25-OCT-2016 01:14

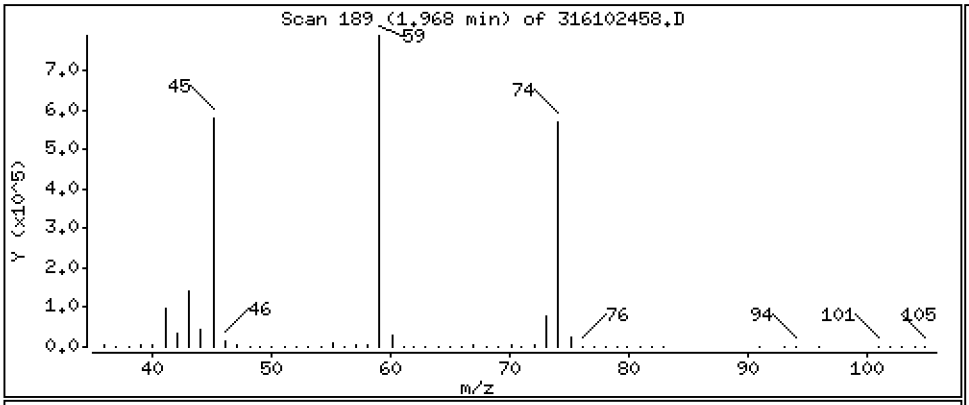
Client ID: Instrument: ms03.i

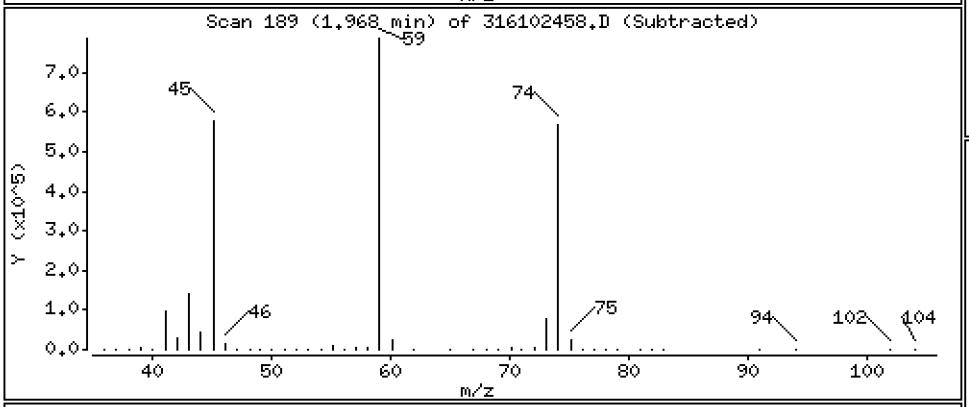
Sample Info: 1238;;1;1;5;;;

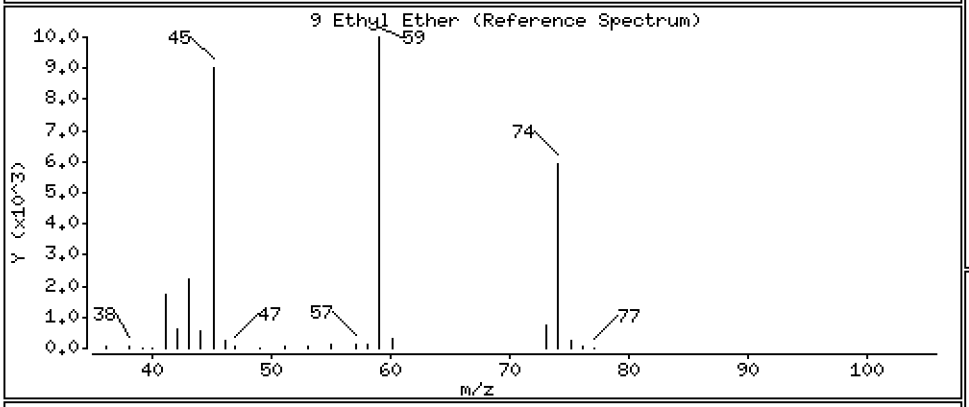
Purge Volume: 5.0 Operator: CJG

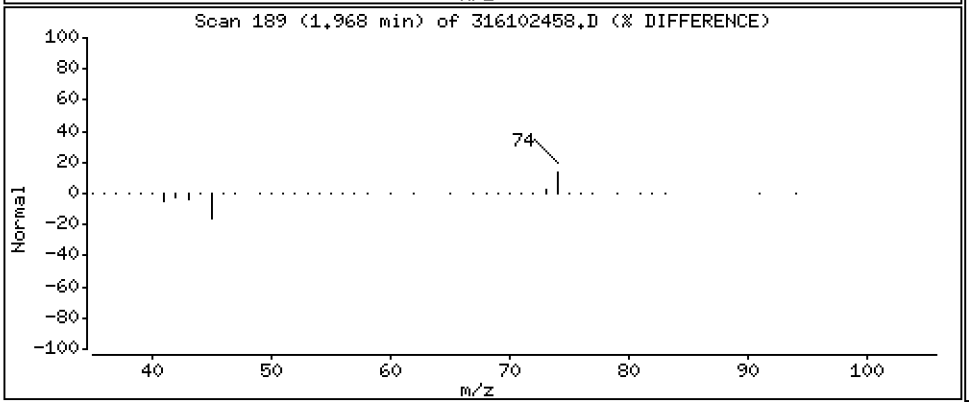
Column phase: DB-VRX Column diameter: 0.25

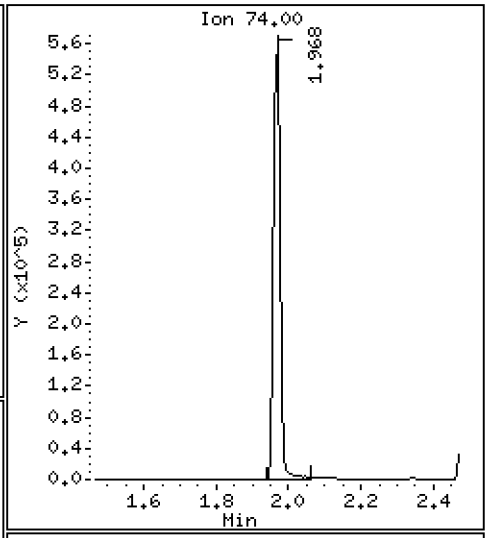
9 Ethyl Ether Concentration: 98.4824 ug/L

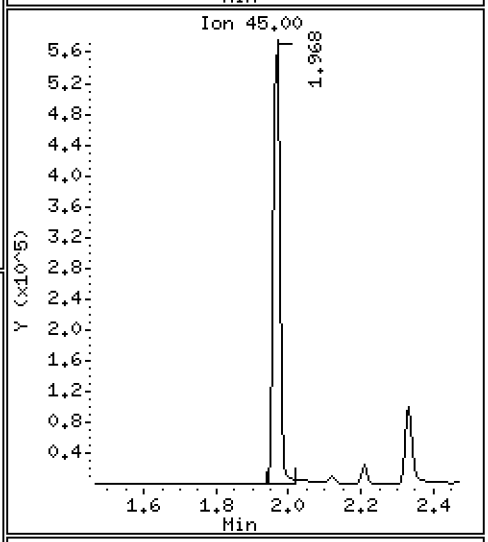


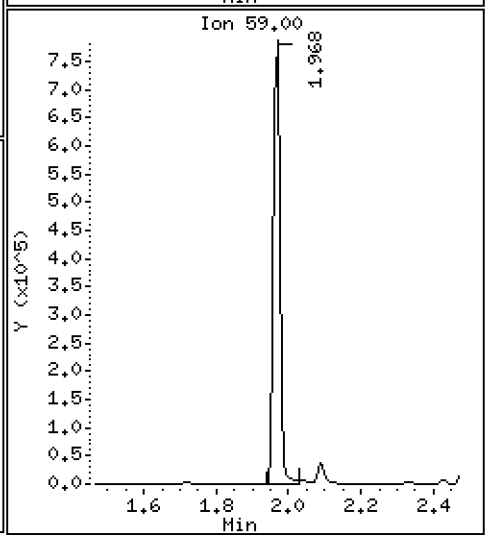












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 18

Date : 25-OCT-2016 01:14

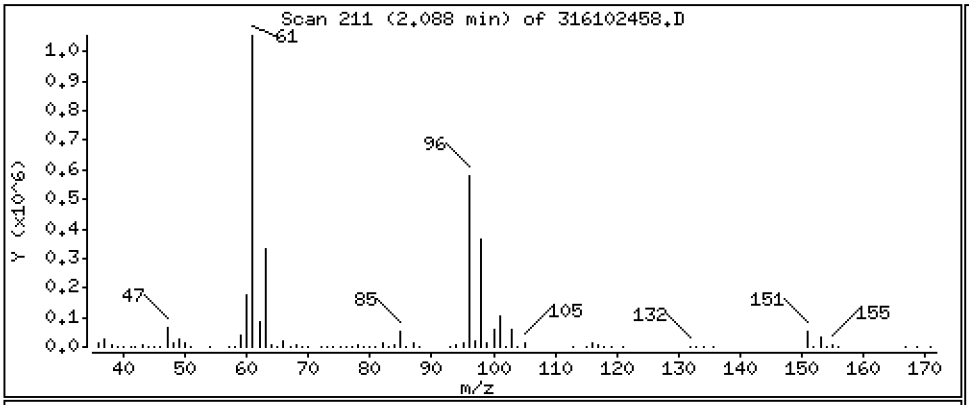
Client ID: Instrument: ms03.i

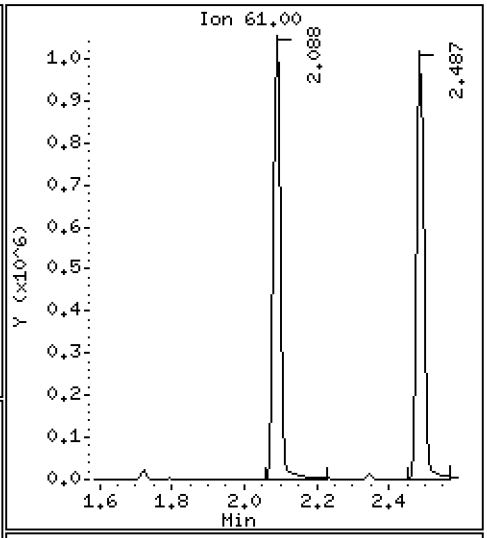
Sample Info: 1238;;1;1;5;;;

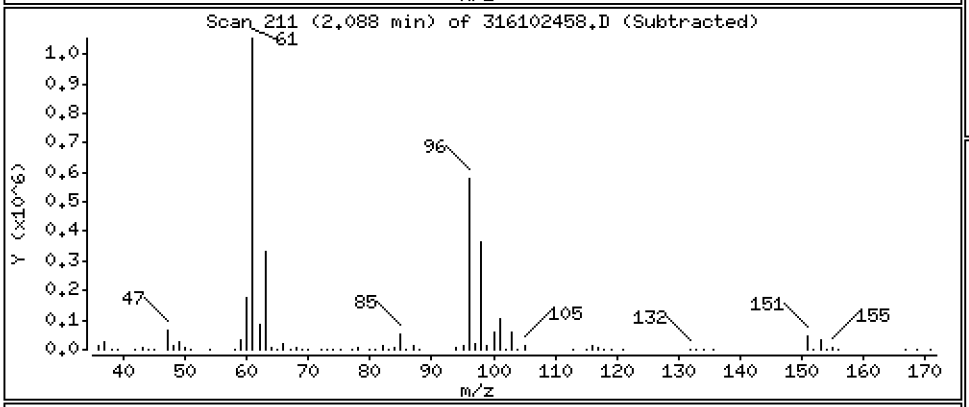
Purge Volume: 5.0 Operator: CJG

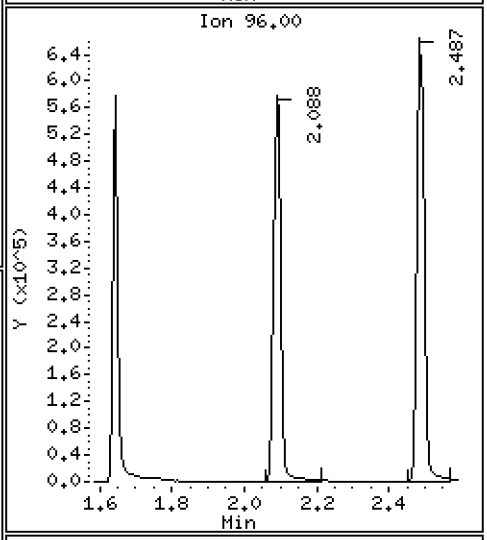
Column phase: DB-VRX Column diameter: 0.25

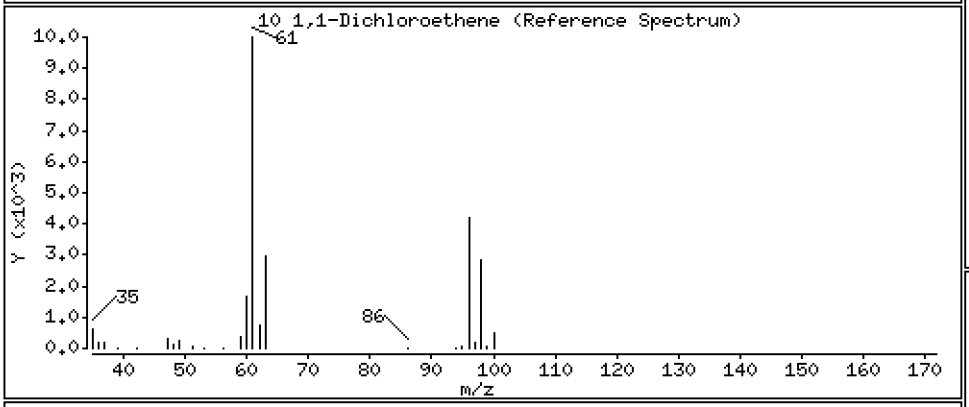
10 1,1-Dichloroethene Concentration: 99.9438 ug/L

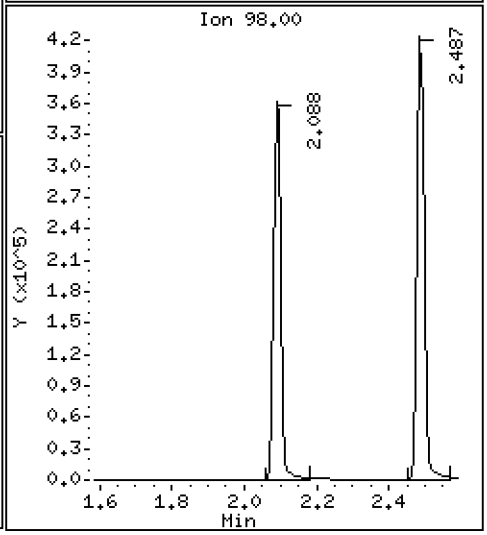


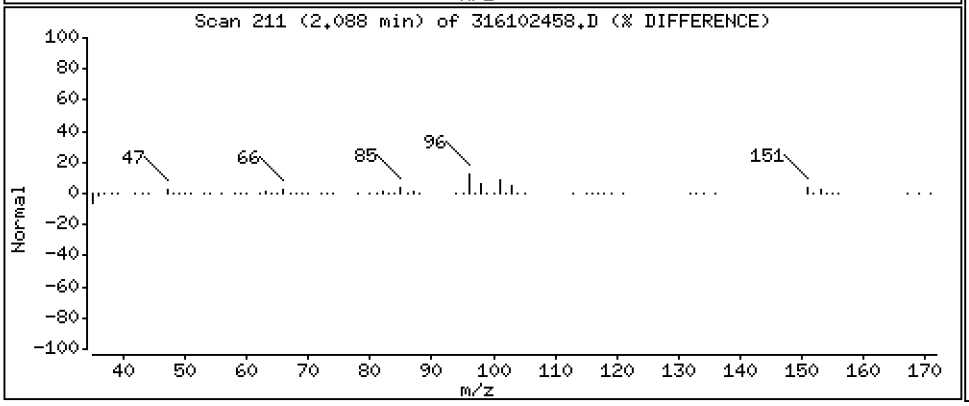












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 19

Date : 25-OCT-2016 01:14

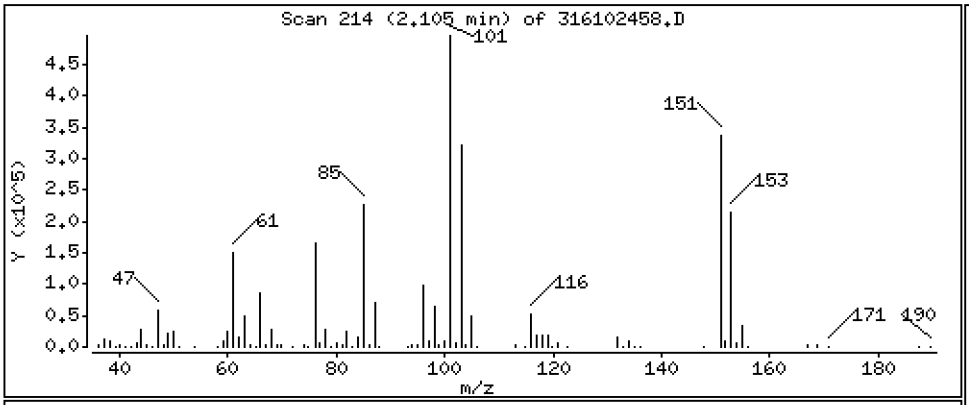
Client ID: Instrument: ms03.i

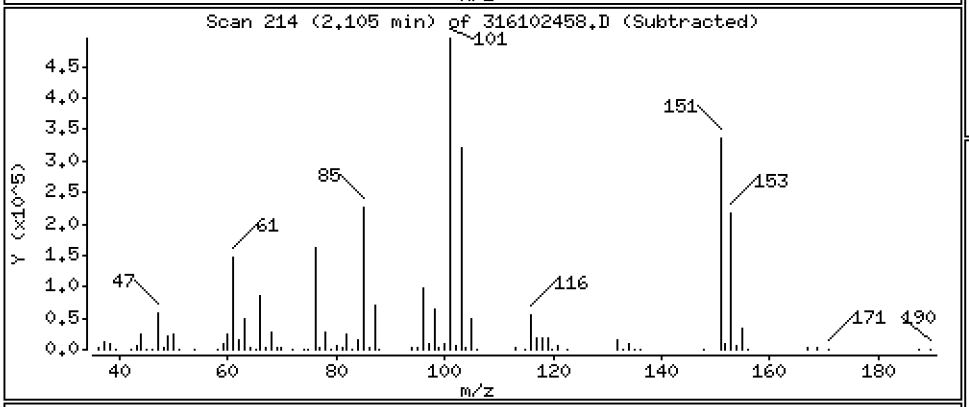
Sample Info: 1238;;1;1;5;;;

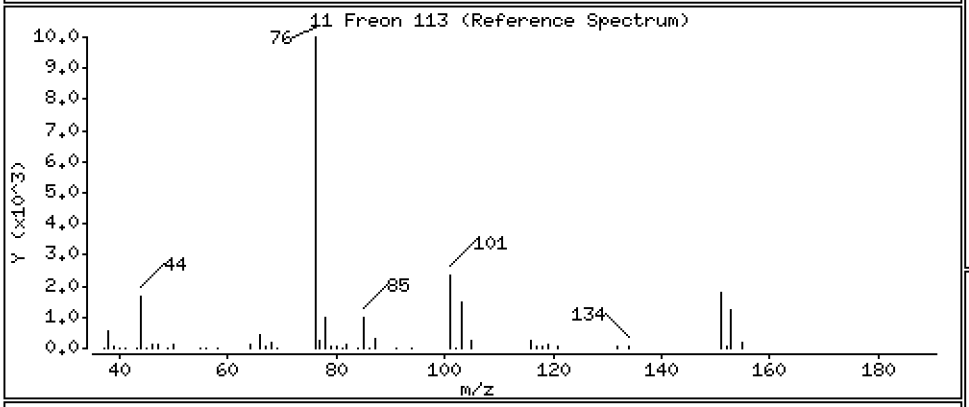
Purge Volume: 5.0 Operator: CJG

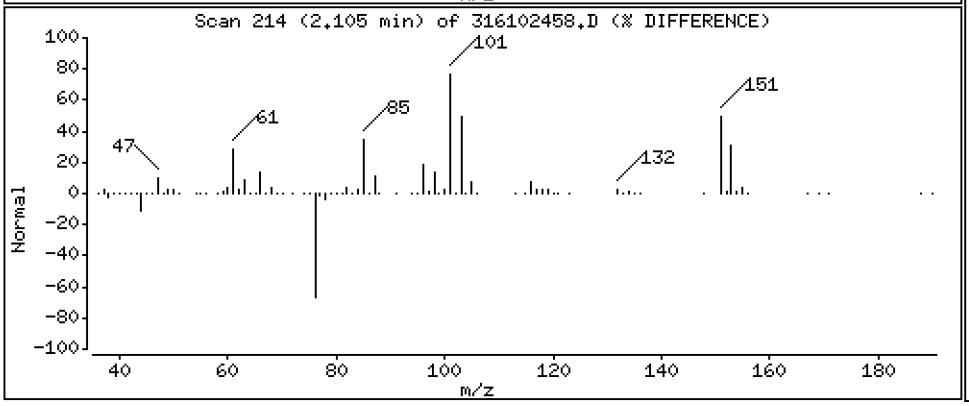
Column phase: DB-VRX Column diameter: 0.25

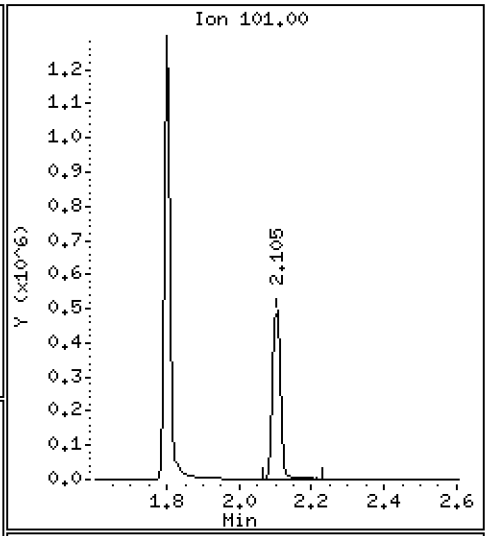
11 Freon 113 Concentration: 99.4589 ug/L

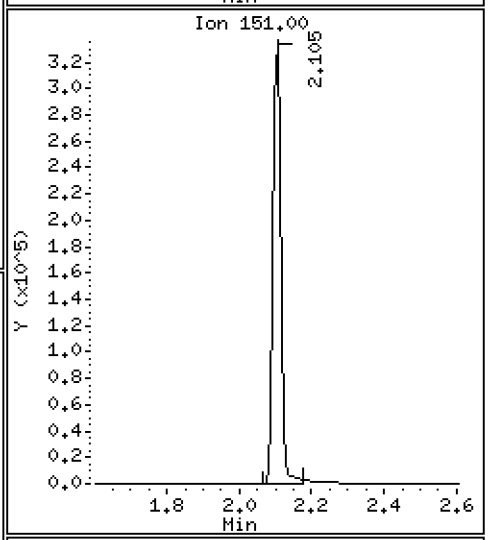


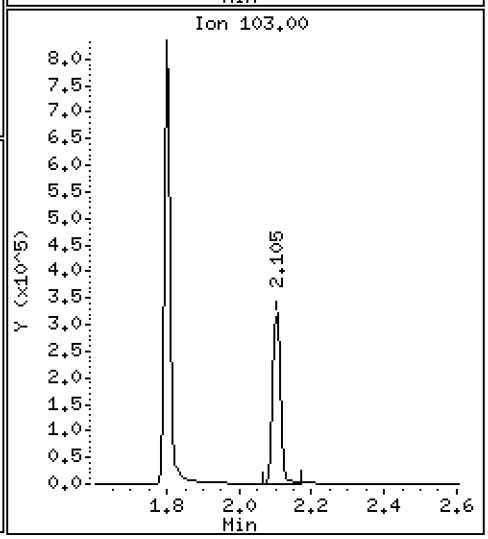












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 20

Date : 25-OCT-2016 01:14

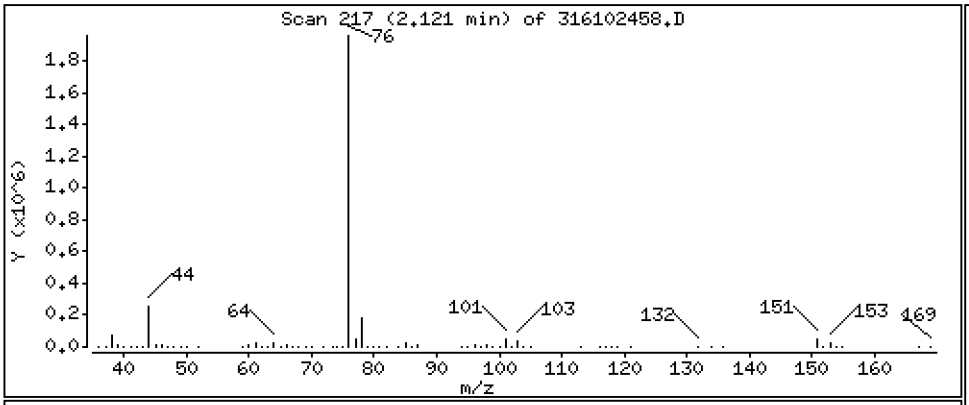
Client ID: Instrument: ms03.i

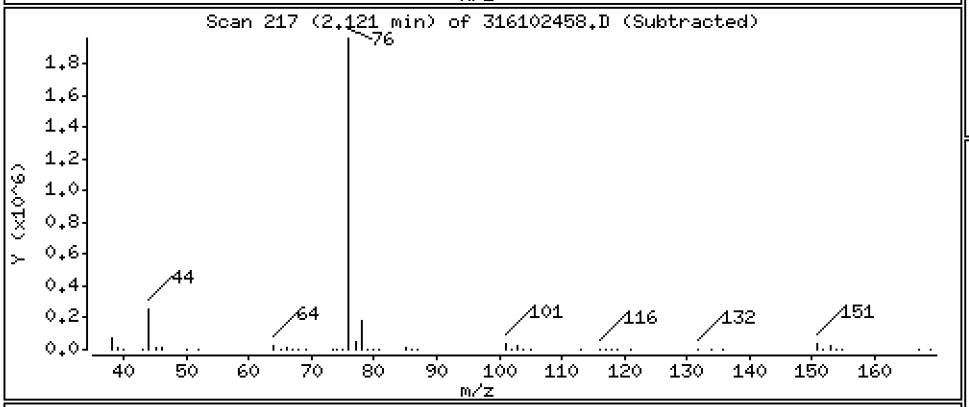
Sample Info: 1238;;1;1;5;;;

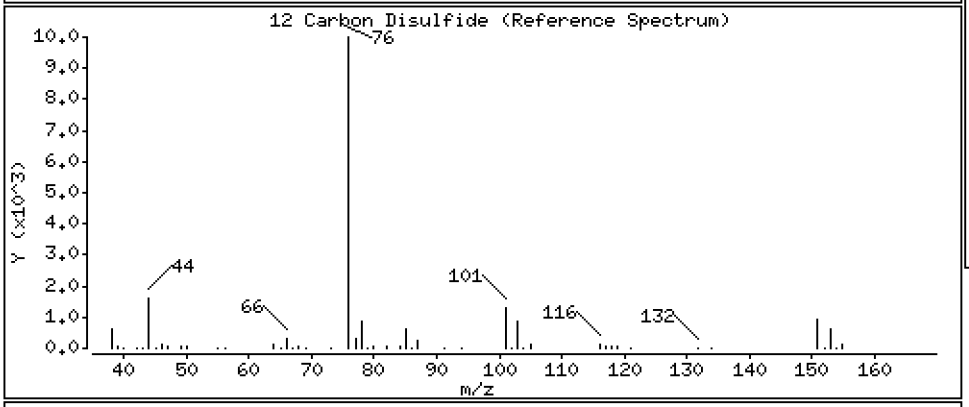
Purge Volume: 5.0 Operator: CJG

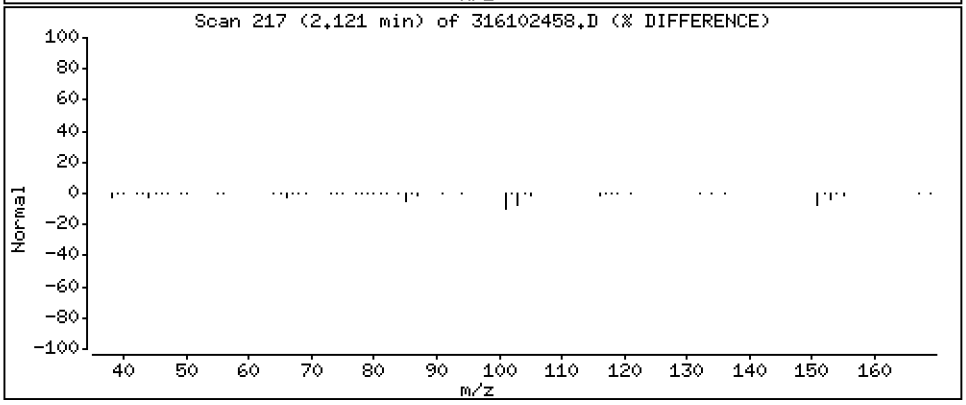
Column phase: DB-VRX Column diameter: 0.25

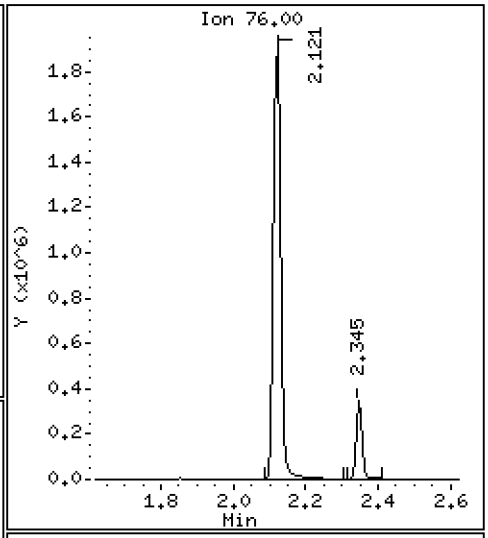
12 Carbon Disulfide Concentration: 101.392 ug/L

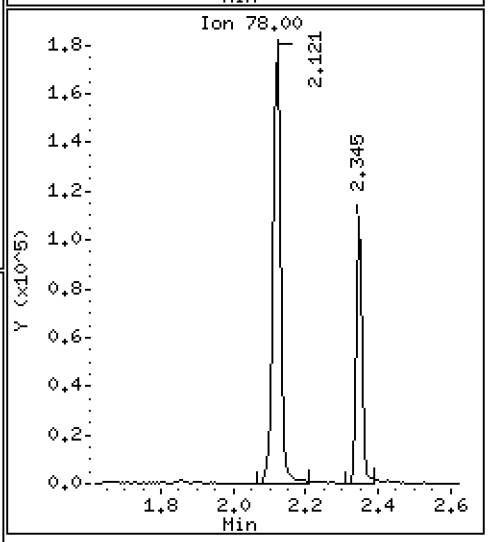












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 21

Date : 25-OCT-2016 01:14

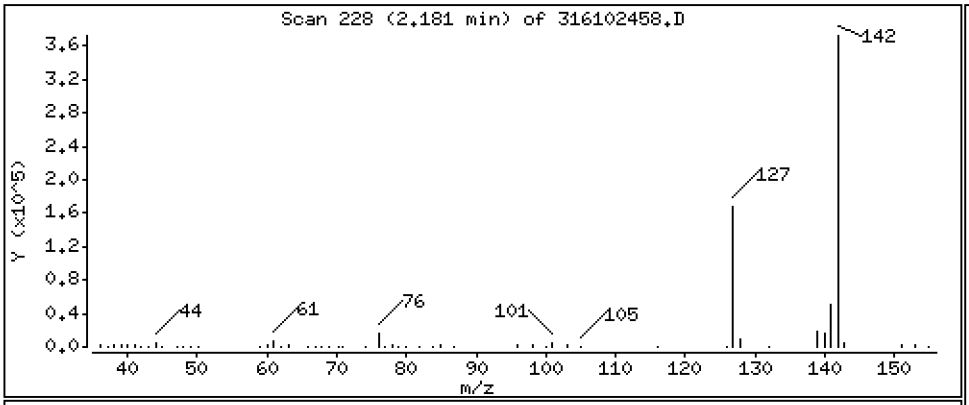
Client ID: Instrument: ms03.i

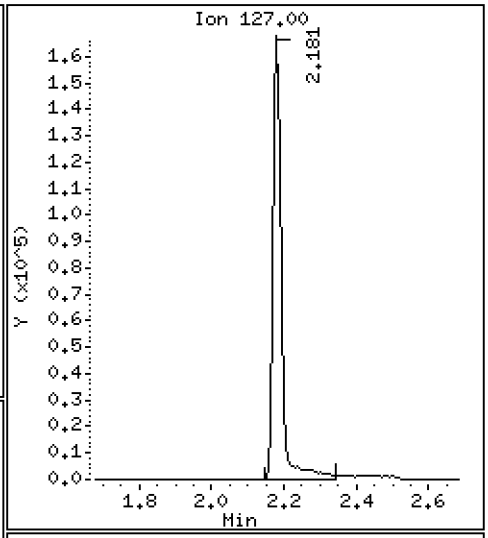
Sample Info: 1238;;1;1;5;;;

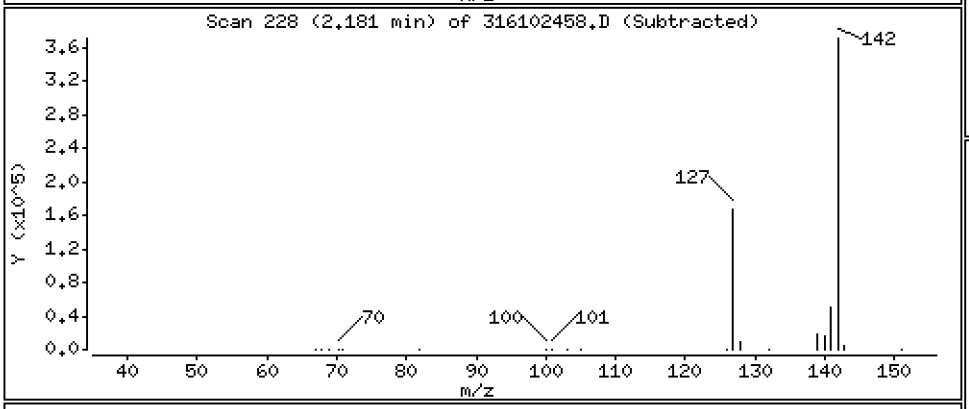
Purge Volume: 5.0 Operator: CJG

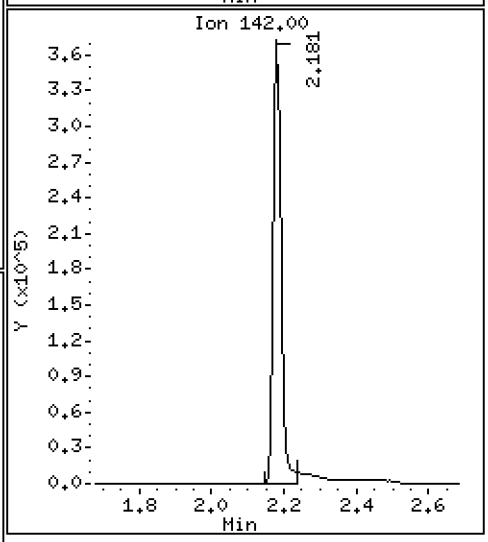
Column phase: DB-VRX Column diameter: 0.25

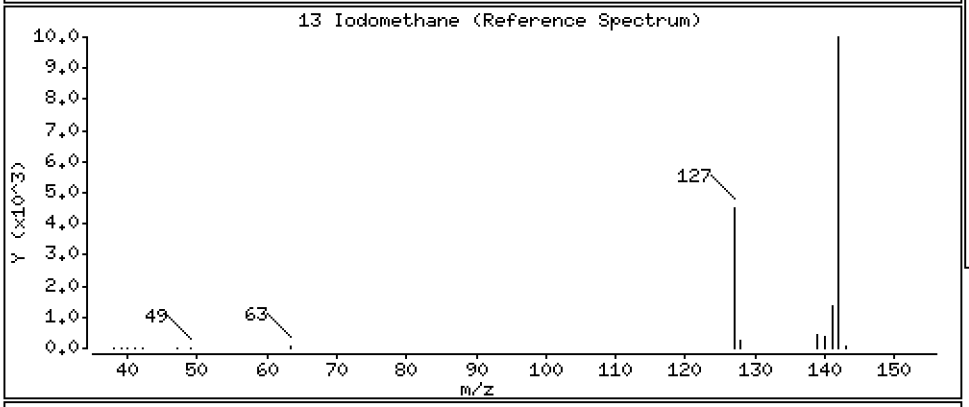
13 Iodomethane Concentration: 105.804 ug/L

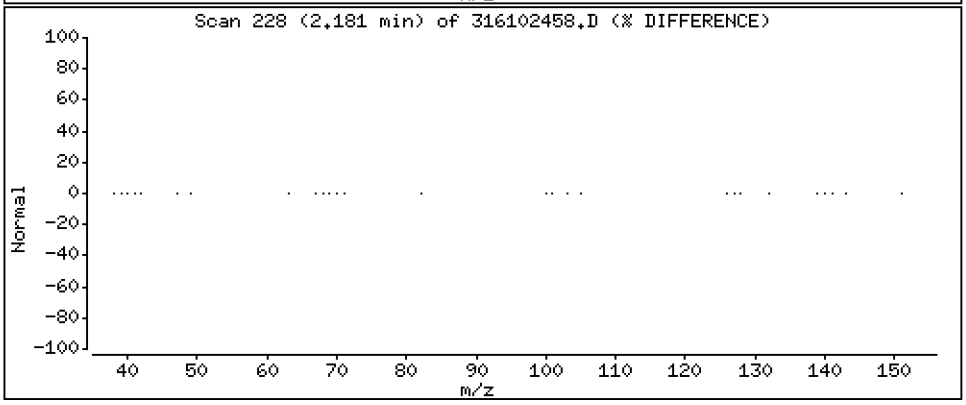












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 22

Date : 25-OCT-2016 01:14

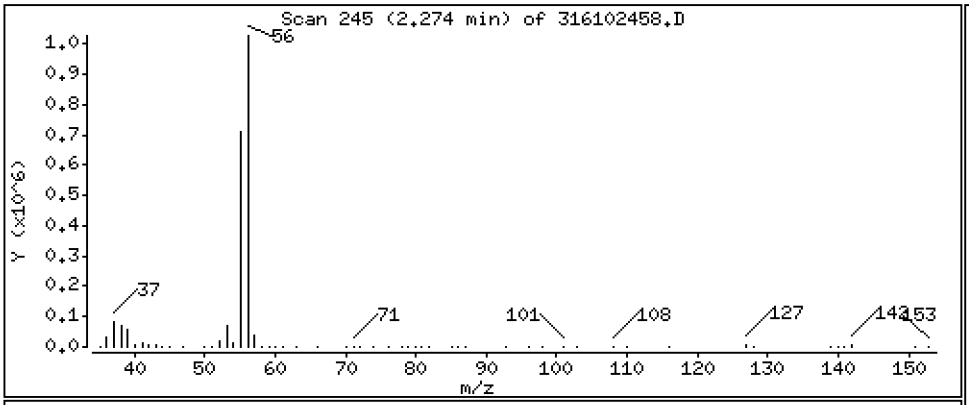
Client ID: Instrument: ms03.i

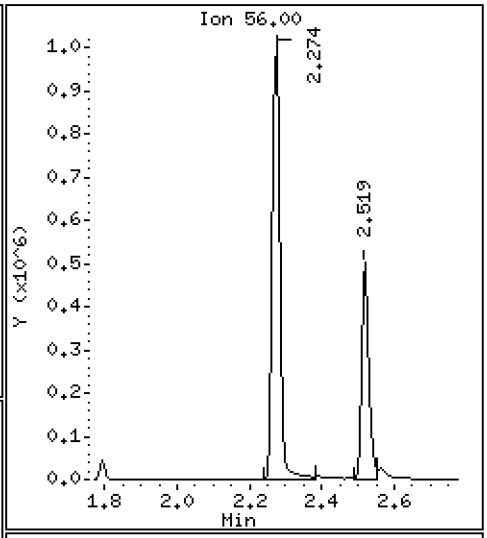
Sample Info: 1238;;1;1;5;;;

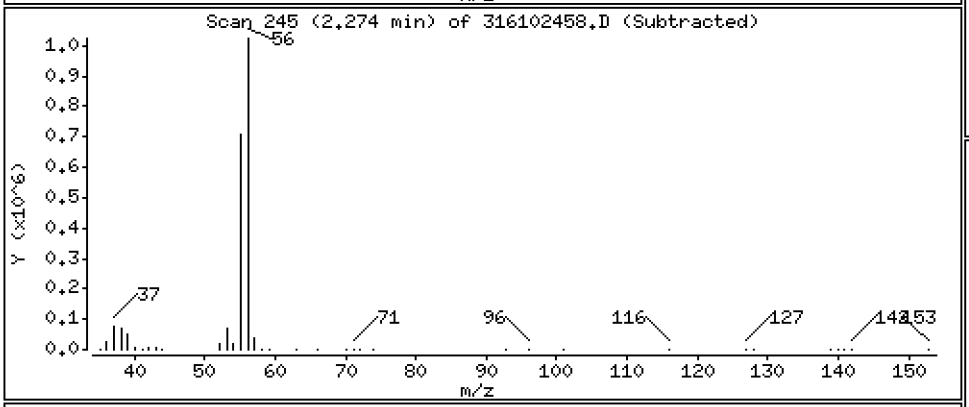
Purge Volume: 5.0 Operator: CJG

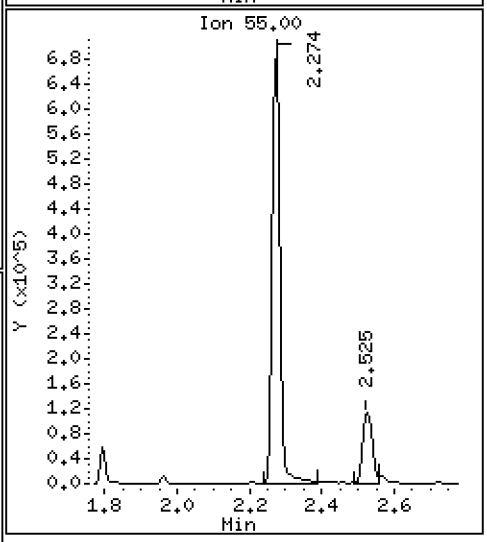
Column phase: DB-VRX Column diameter: 0.25

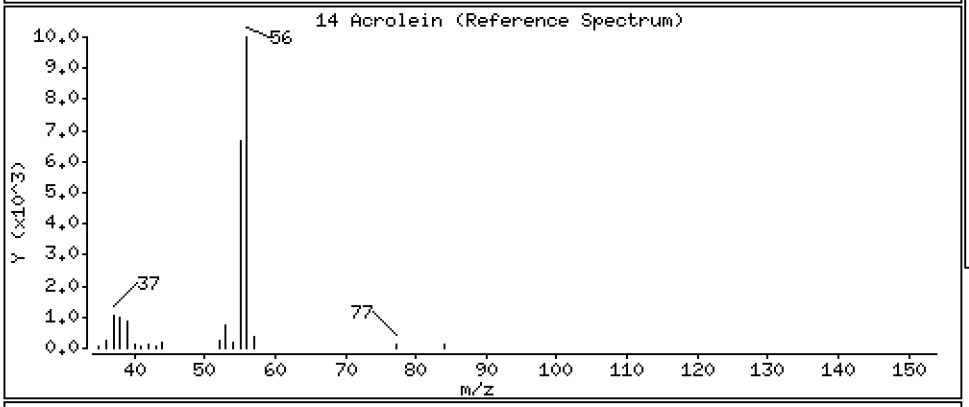
14 Acrolein Concentration: 1000.23 ug/L

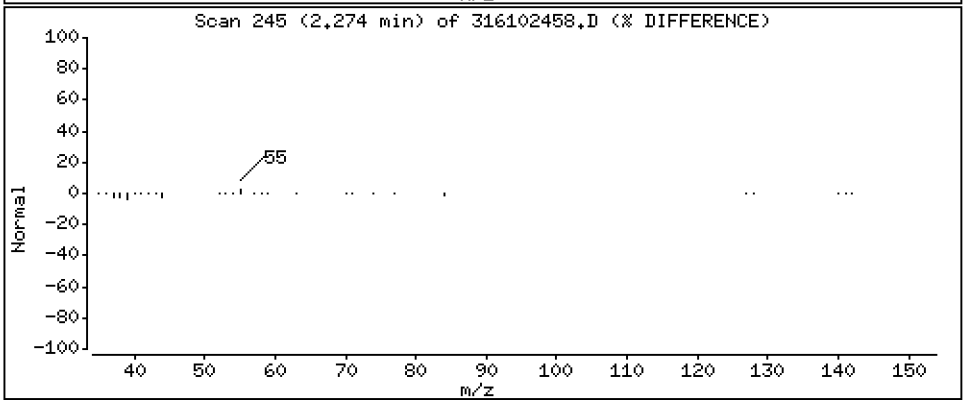












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 23

Date : 25-OCT-2016 01:14

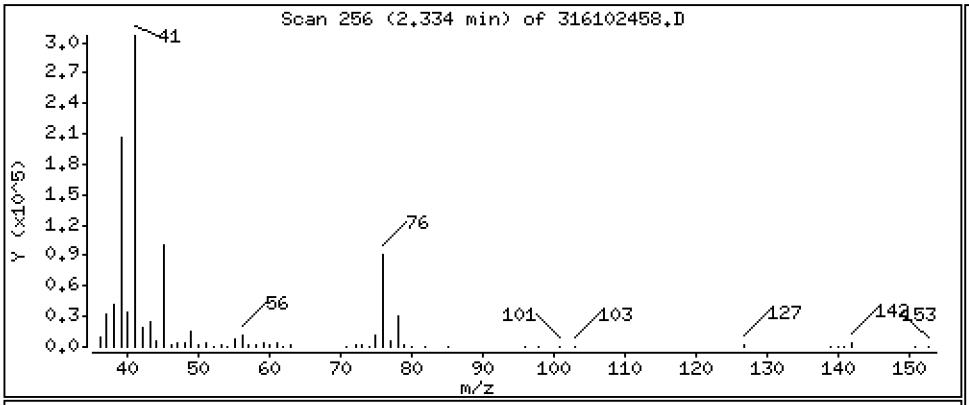
Client ID: Instrument: ms03.i

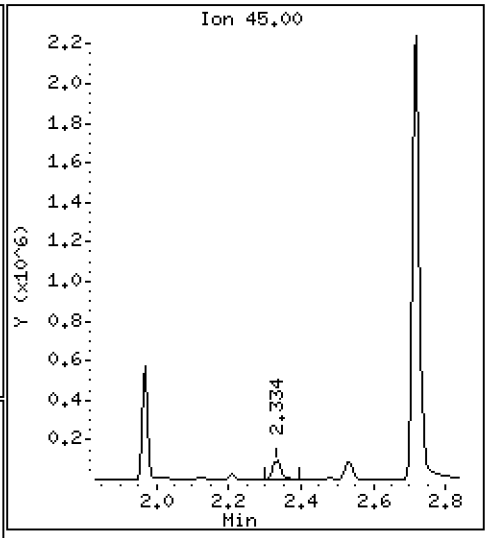
Sample Info: 1238;;1;1;5;;;

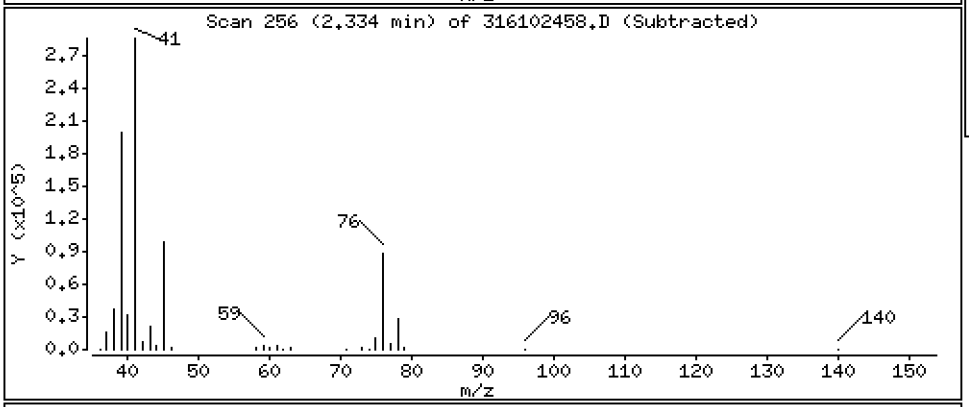
Purge Volume: 5.0 Operator: CJG

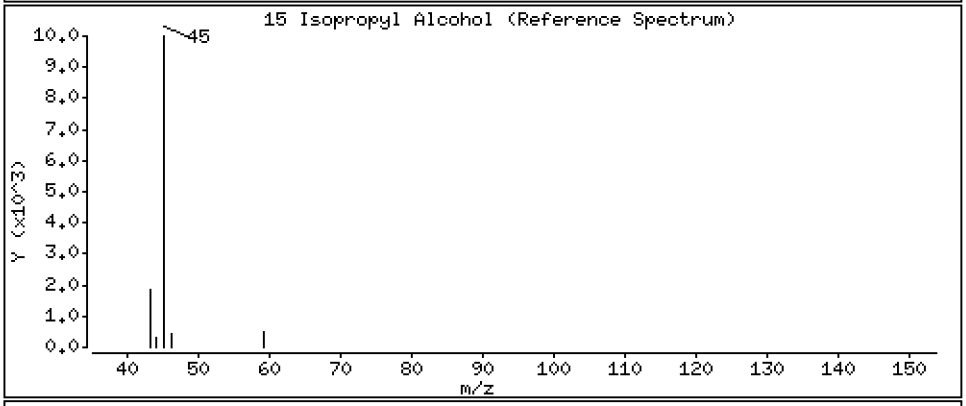
Column phase: DB-VRX Column diameter: 0.25

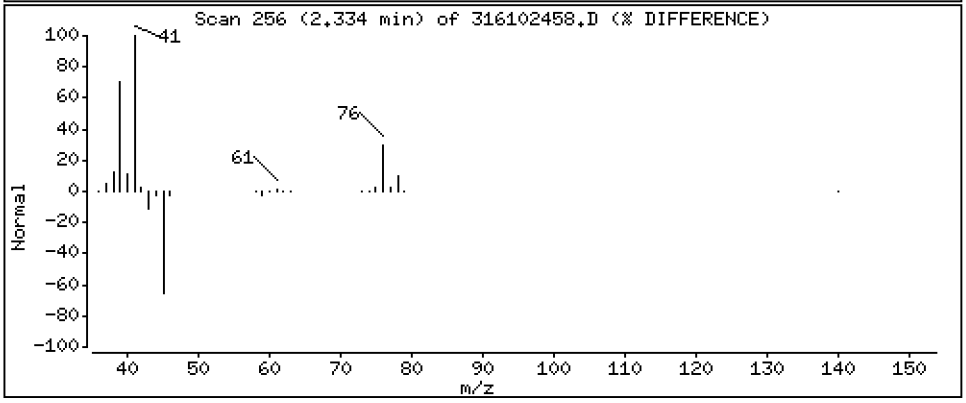
15 Isopropyl Alcohol Concentration: 495.120 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 24

Date : 25-OCT-2016 01:14

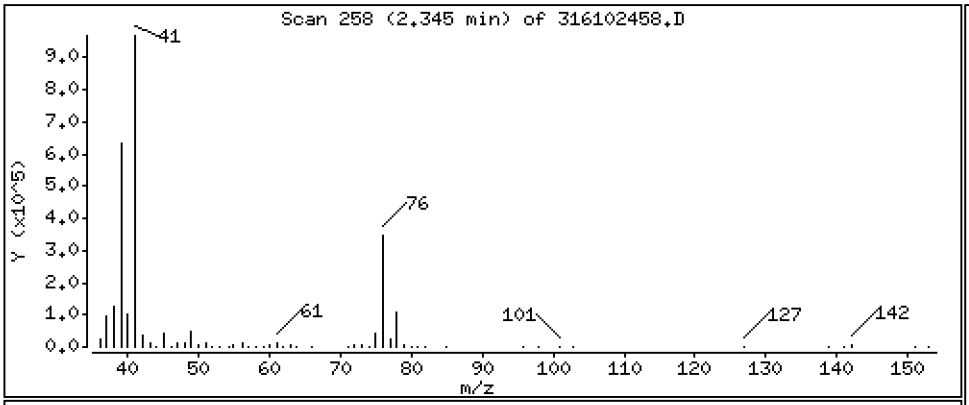
Client ID: Instrument: ms03.i

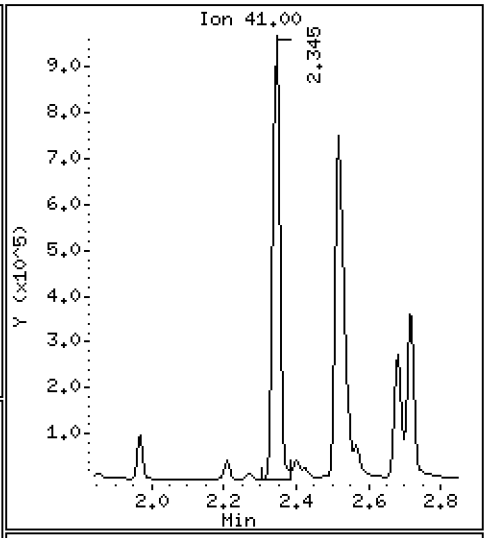
Sample Info: 1238;;1;1;5;;;

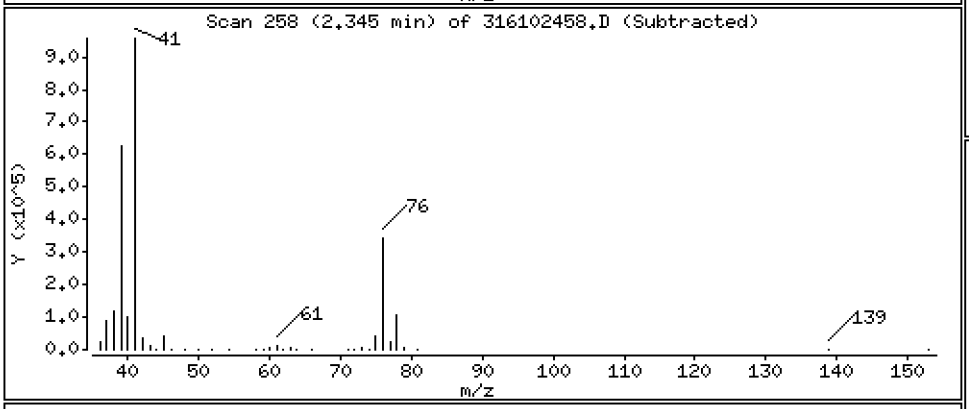
Purge Volume: 5.0 Operator: CJG

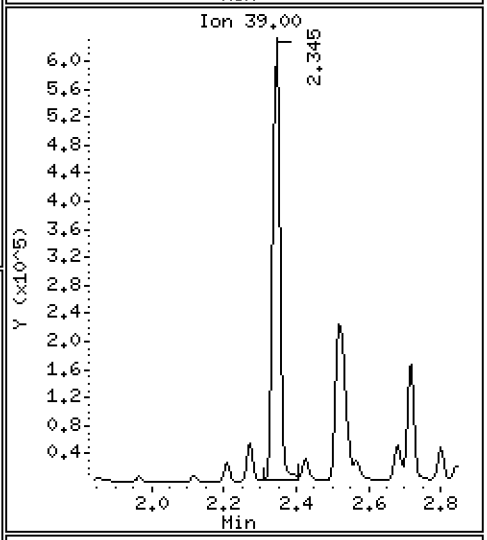
Column phase: DB-VRX Column diameter: 0.25

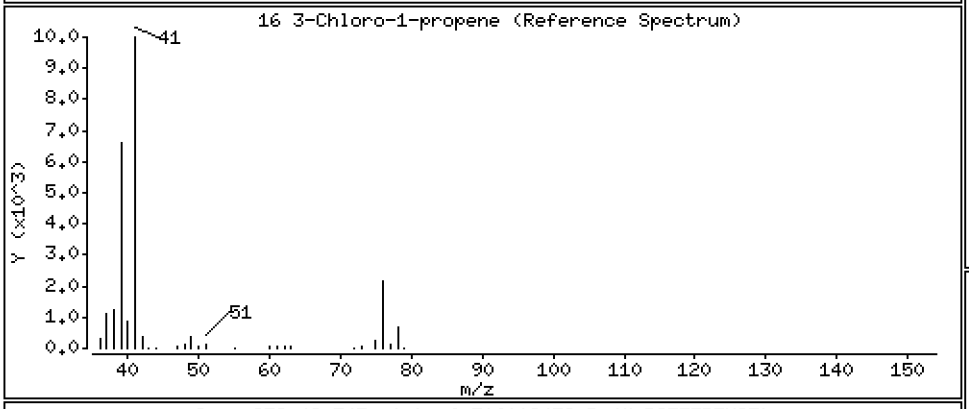
16 3-Chloro-1-propene Concentration: 101.564 ug/L

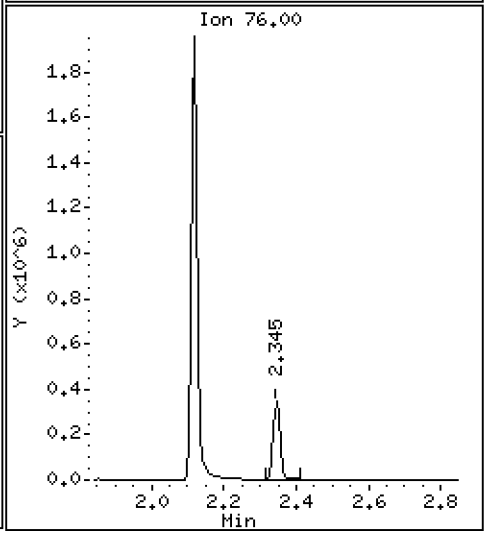


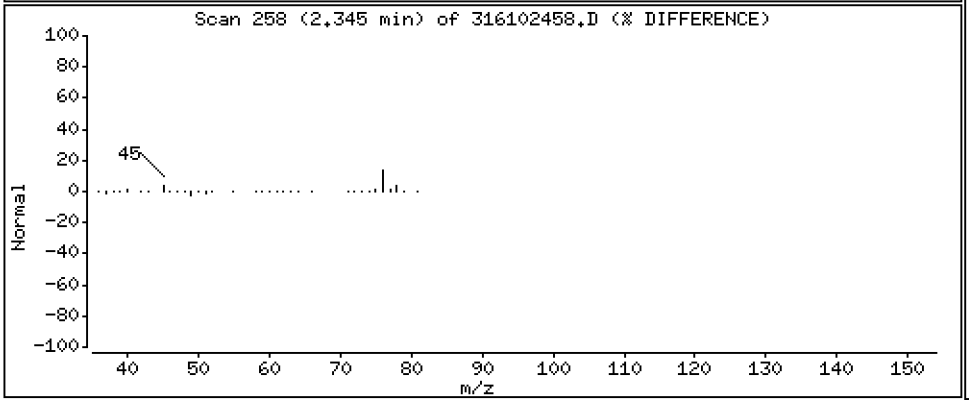












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 25

Date : 25-OCT-2016 01:14

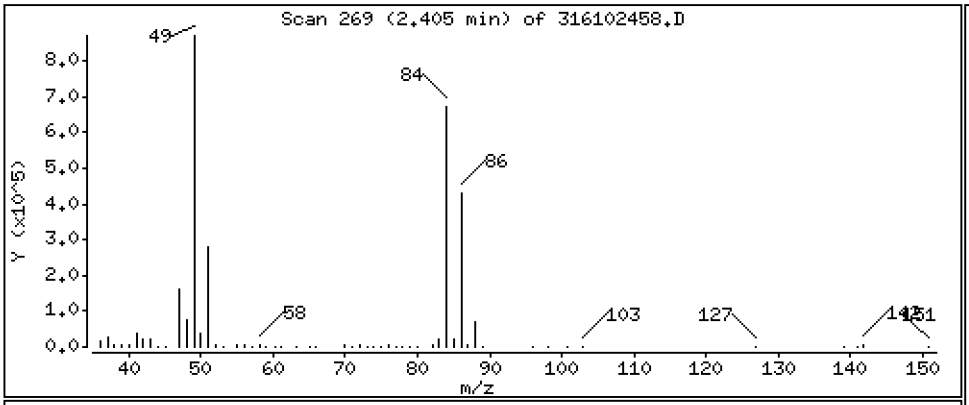
Client ID: Instrument: ms03.i

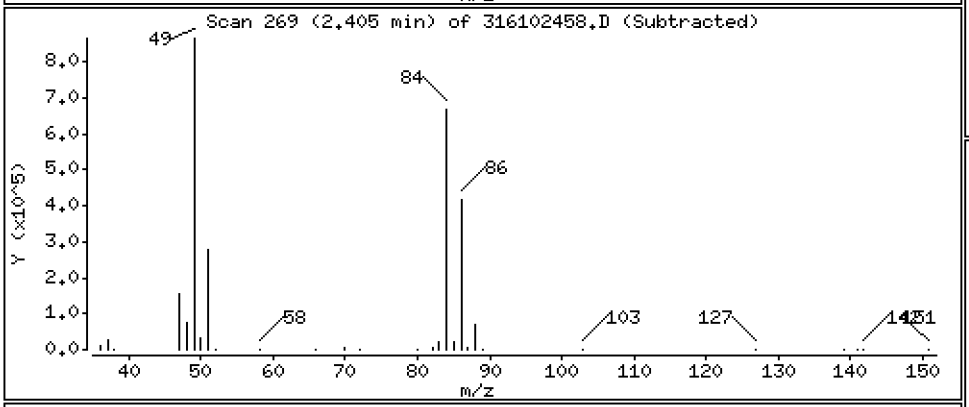
Sample Info: 1238;;1;1;5;;;

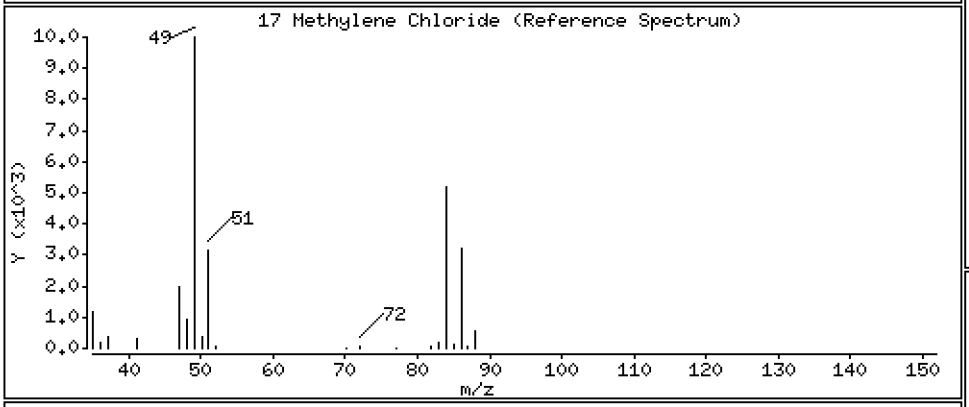
Purge Volume: 5.0 Operator: CJG

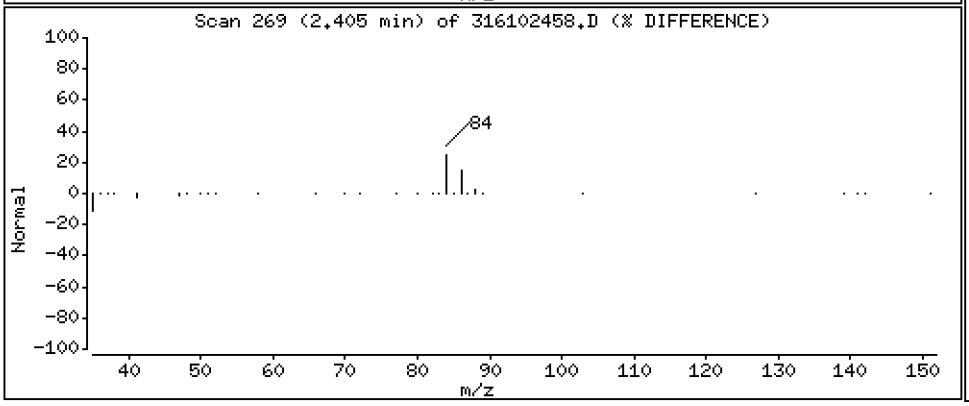
Column phase: DB-VRX Column diameter: 0.25

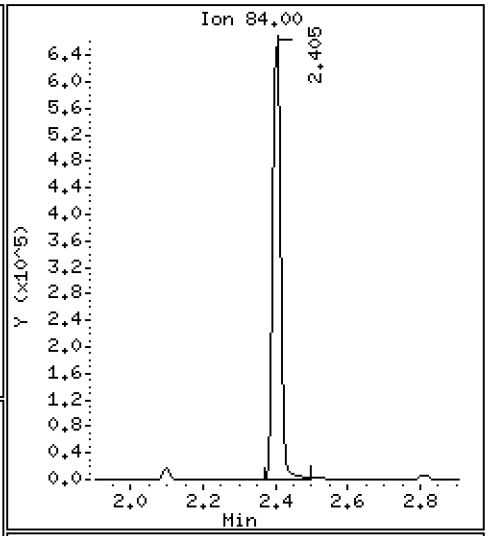
17 Methylene Chloride Concentration: 100.085 ug/L

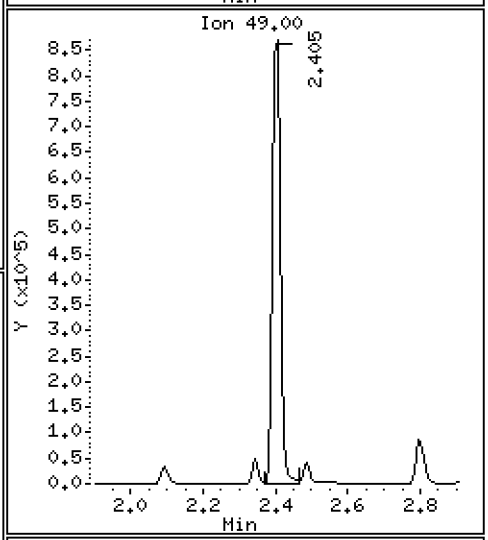


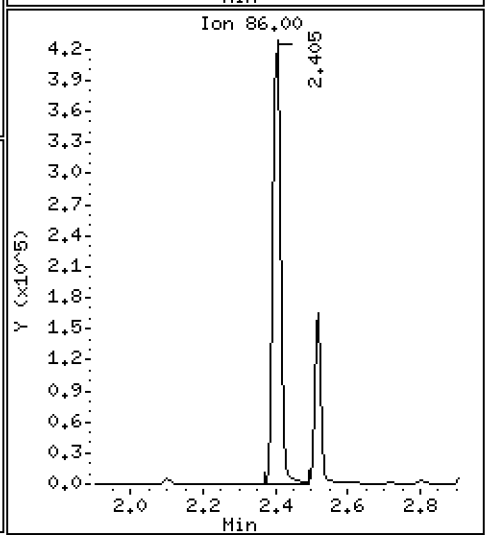












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 26

Date : 25-OCT-2016 01:14

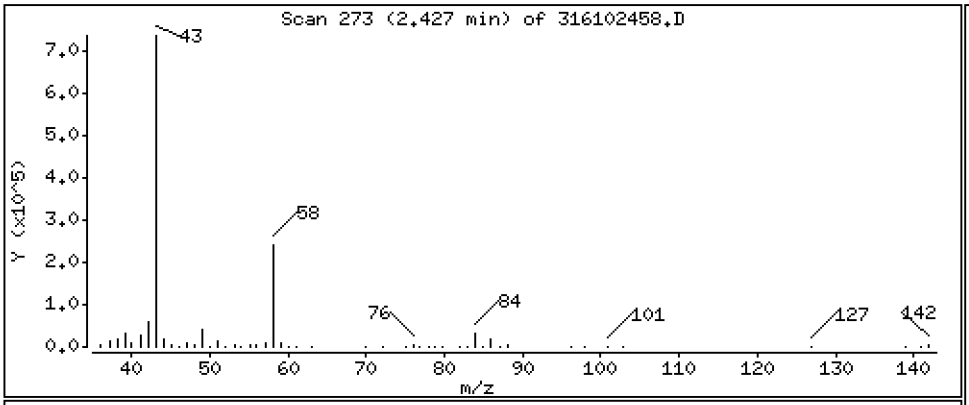
Client ID: Instrument: ms03.i

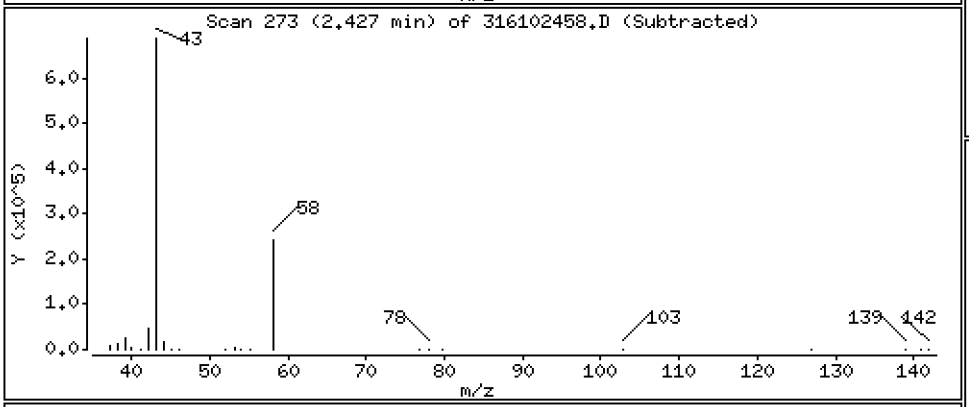
Sample Info: 1238;;1;1;5;;;

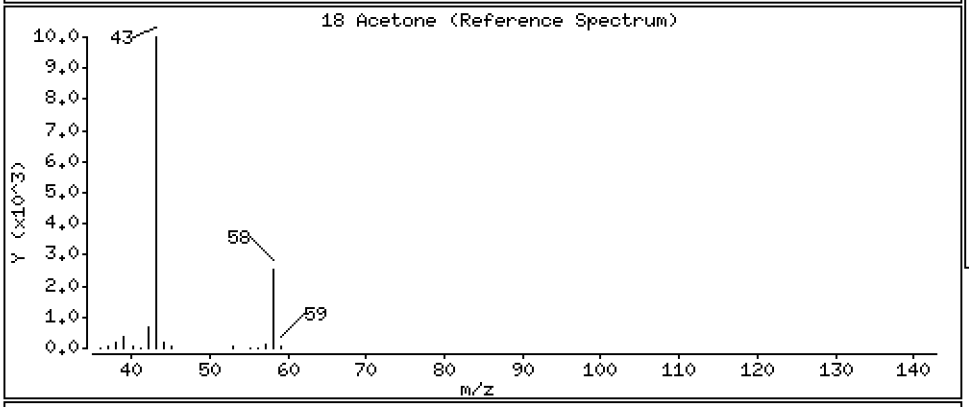
Purge Volume: 5.0 Operator: CJG

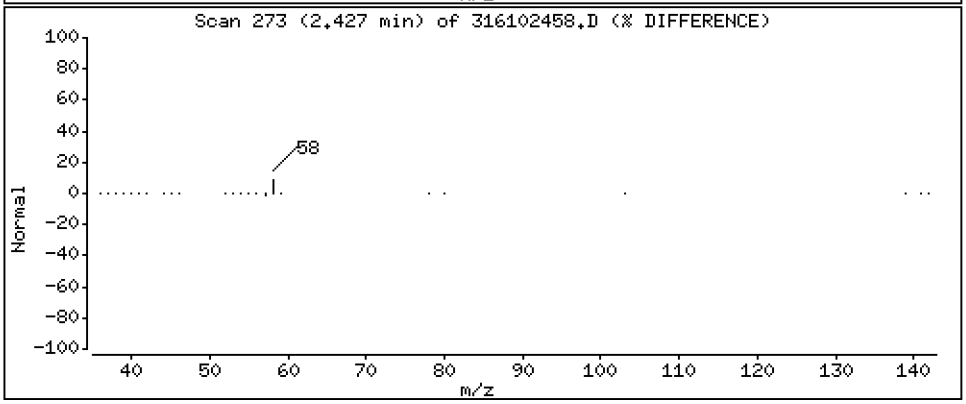
Column phase: DB-VRX Column diameter: 0.25

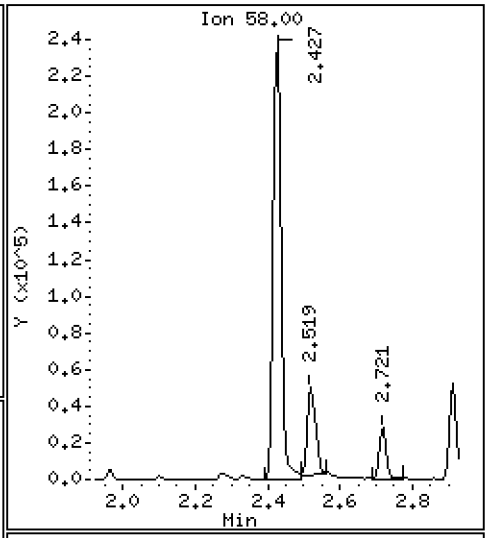
18 Acetone Concentration: 493.364 ug/L

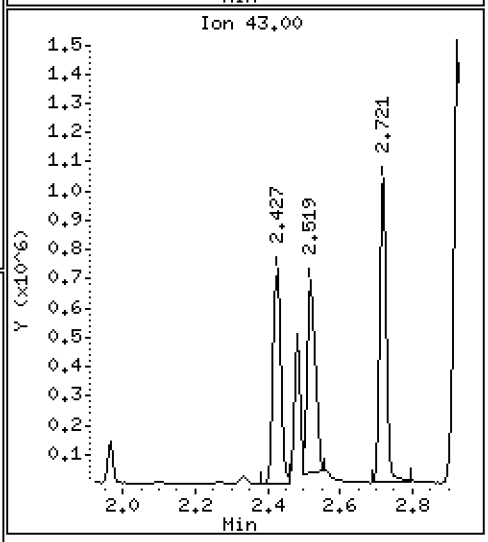












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 27

Date : 25-OCT-2016 01:14

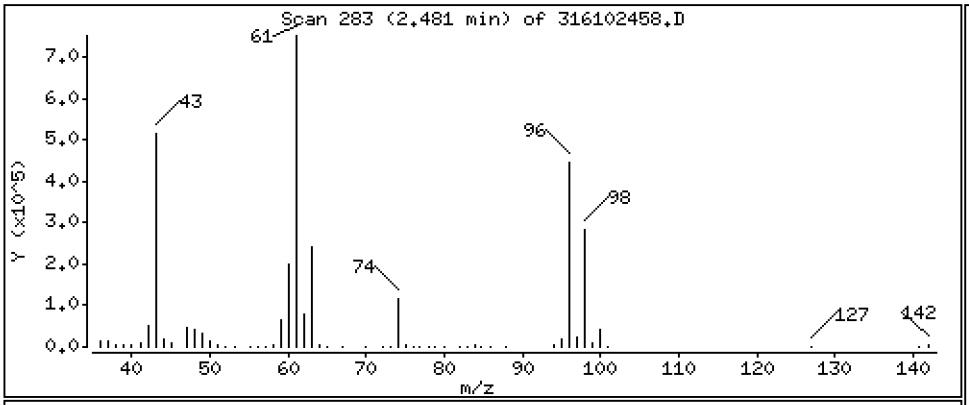
Client ID: Instrument: ms03.i

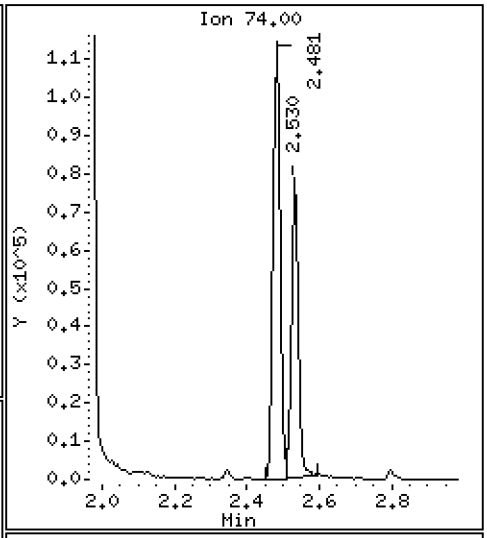
Sample Info: 1238;;1;1;5;;;

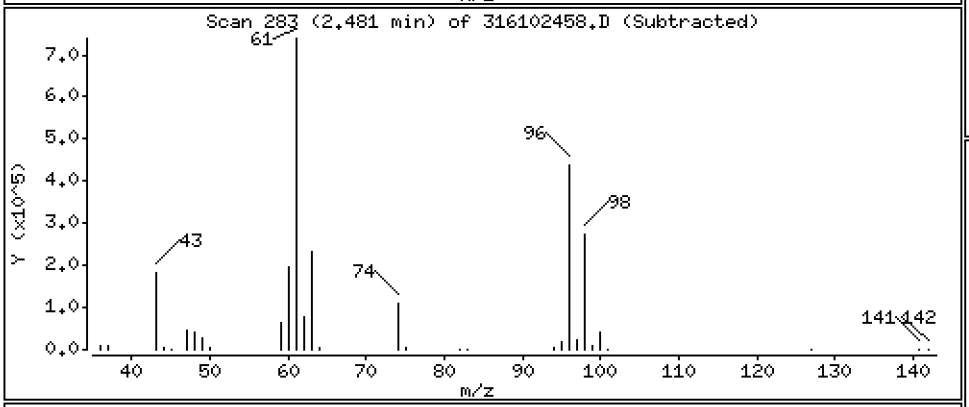
Purge Volume: 5.0 Operator: CJG

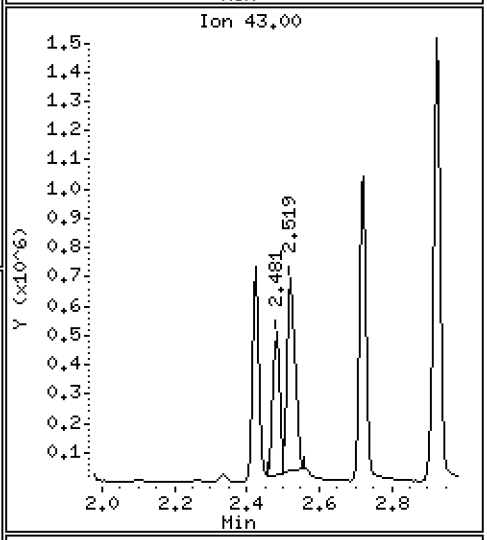
Column phase: DB-VRX Column diameter: 0.25

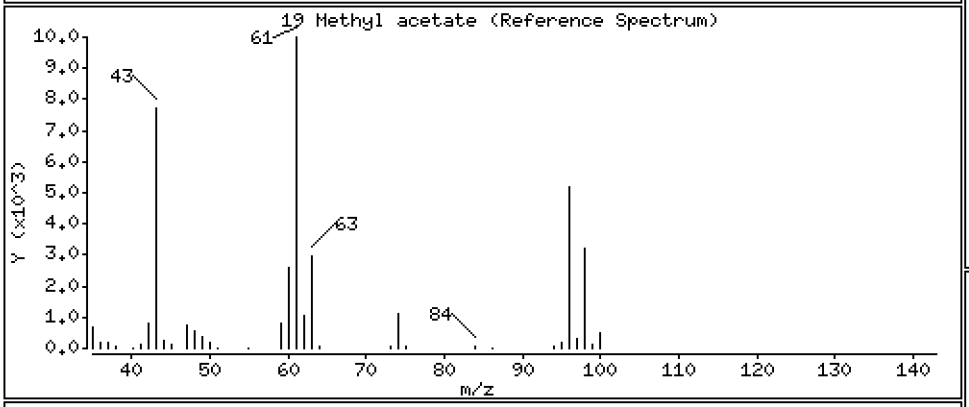
19 Methyl acetate Concentration: 98.9751 ug/L

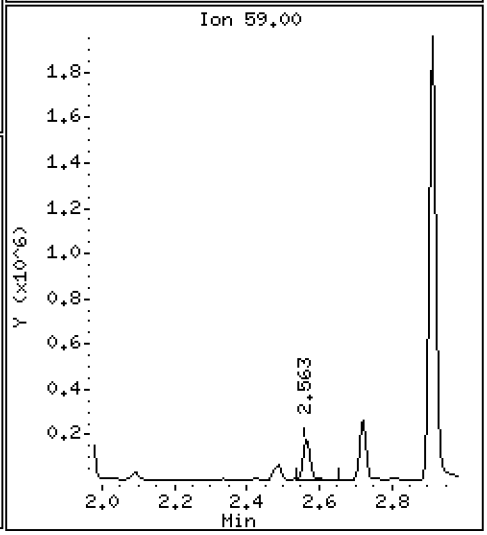


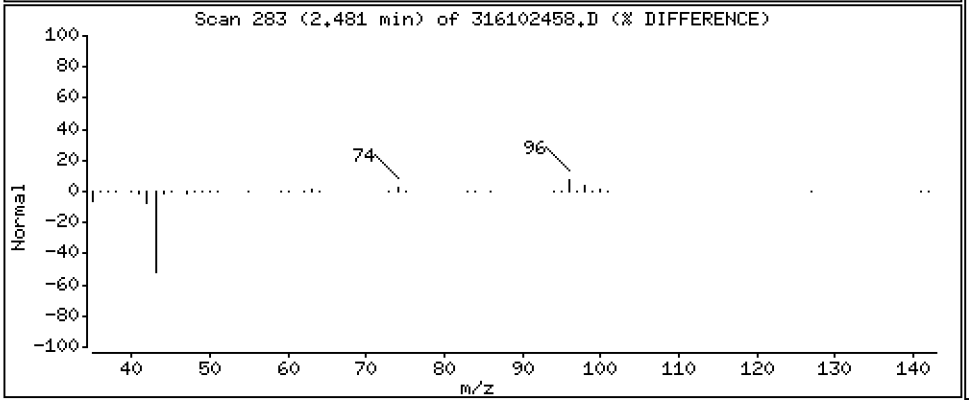












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 28

Date : 25-OCT-2016 01:14

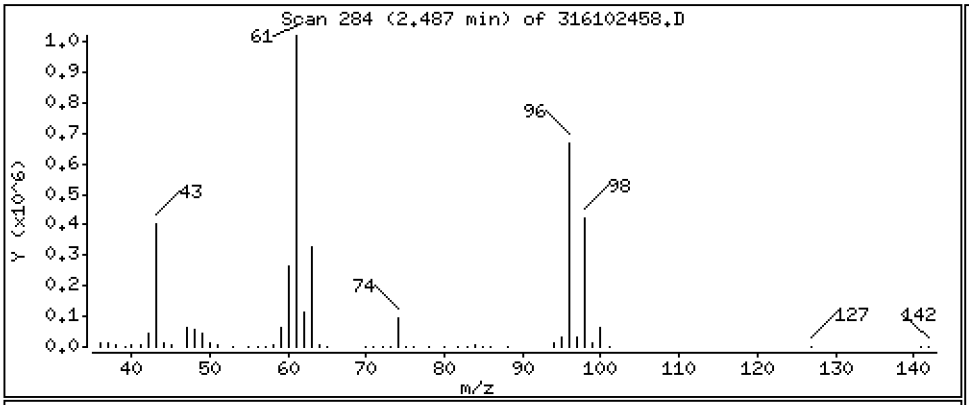
Client ID: Instrument: ms03.i

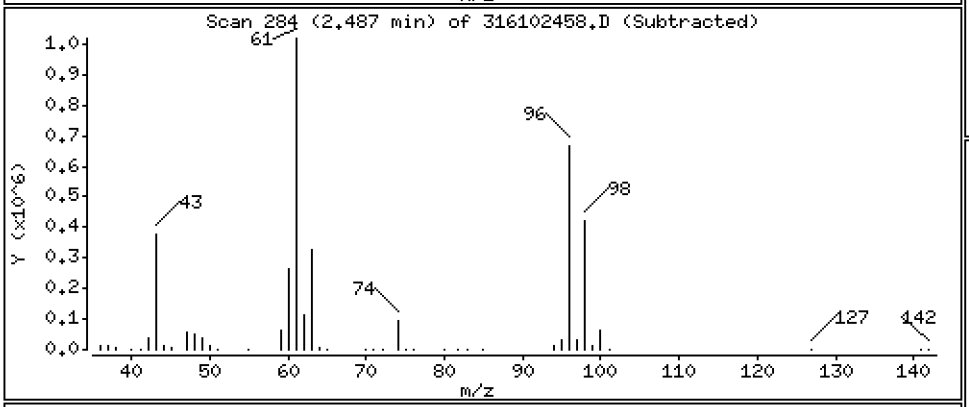
Sample Info: 1238;;1;1;5;;;

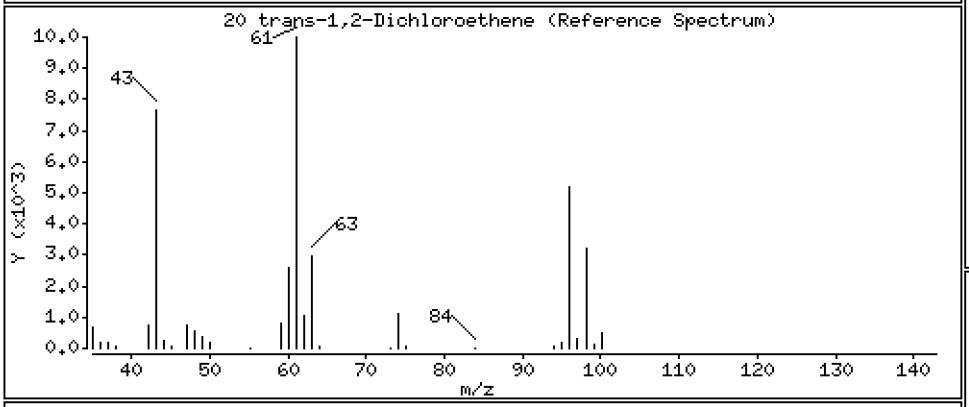
Purge Volume: 5.0 Operator: CJG

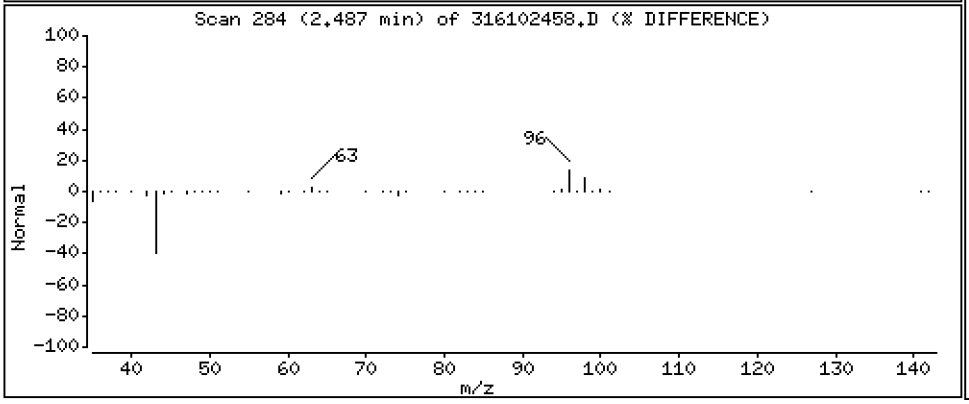
Column phase: DB-VRX Column diameter: 0.25

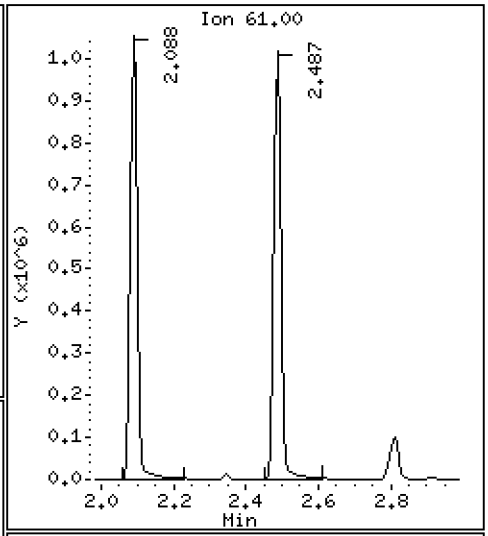
20 trans-1,2-Dichloroethene Concentration: 100.462 ug/L

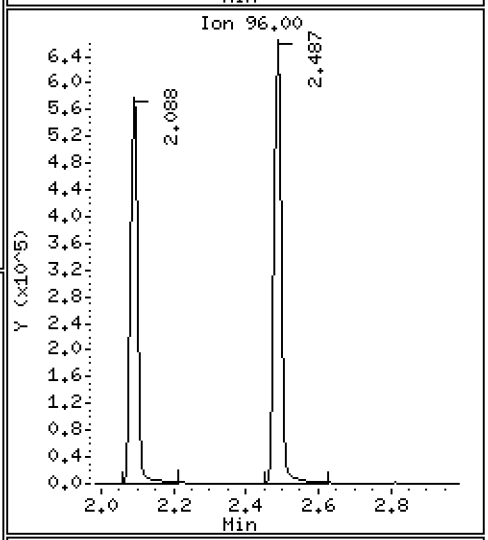


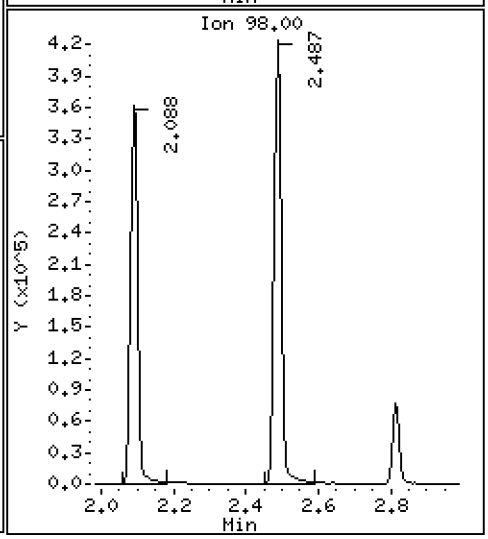












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 29

Date : 25-OCT-2016 01:14

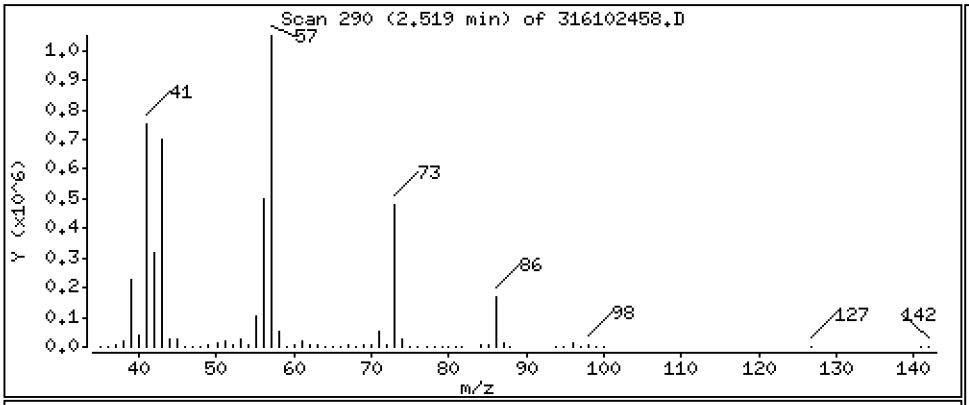
Client ID: Instrument: ms03.i

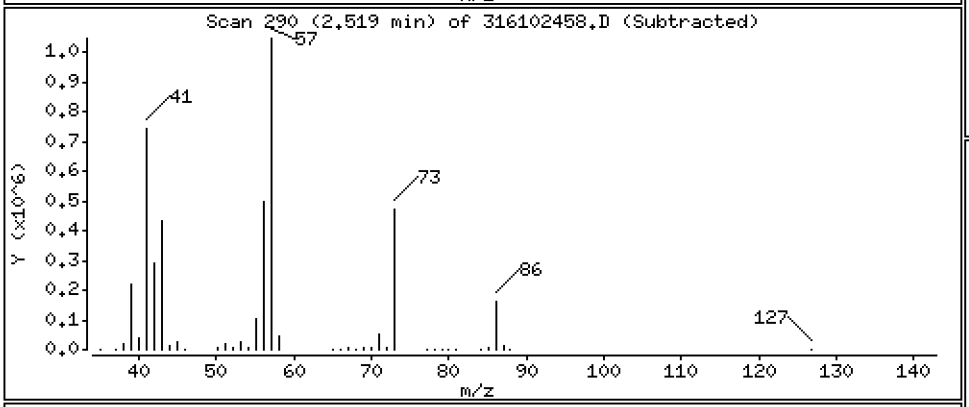
Sample Info: 1238;;1;1;5;;;

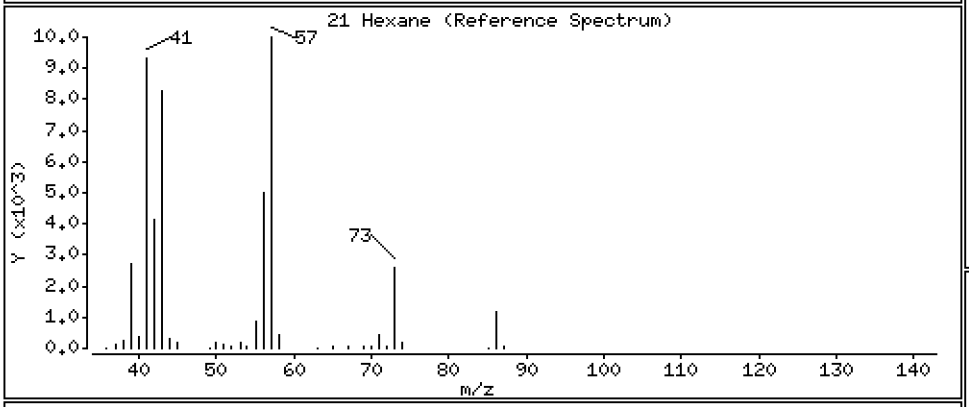
Purge Volume: 5.0 Operator: CJG

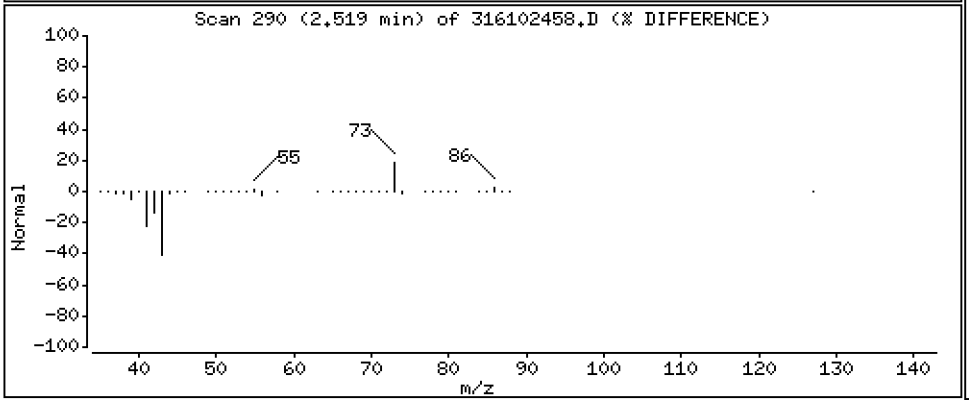
Column phase: DB-VRX Column diameter: 0.25

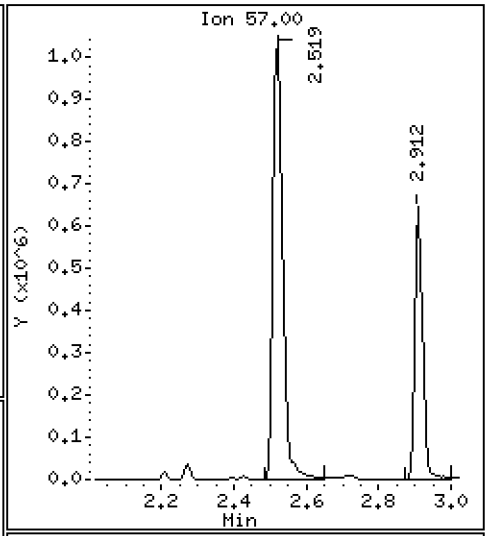
21 Hexane Concentration: 100.431 ug/L

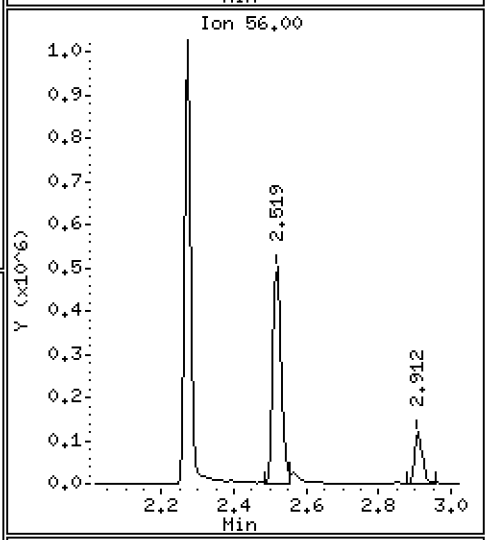


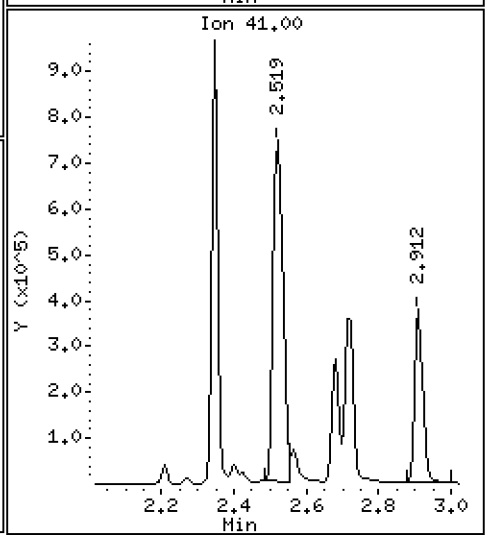












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 30

Date : 25-OCT-2016 01:14

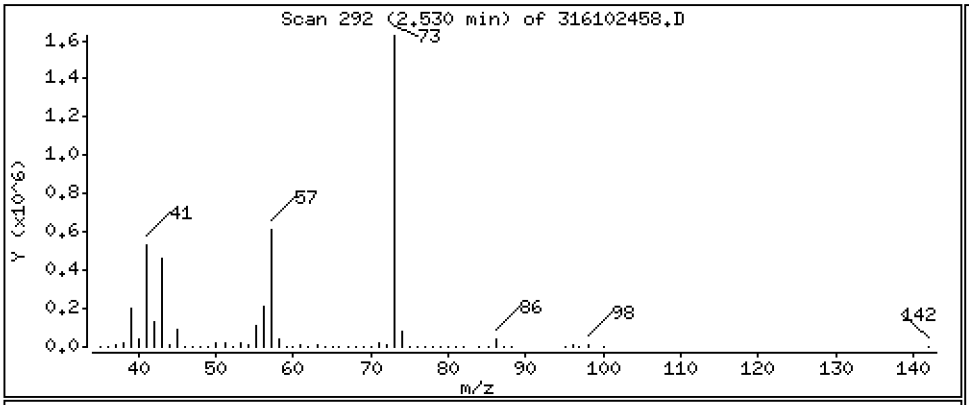
Client ID: Instrument: ms03.i

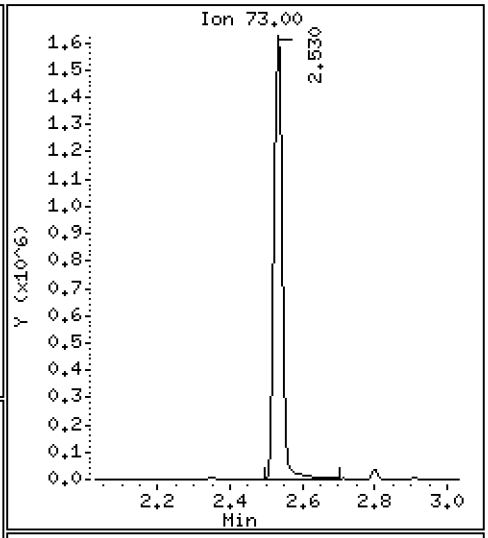
Sample Info: 1238;;1;1;5;;;

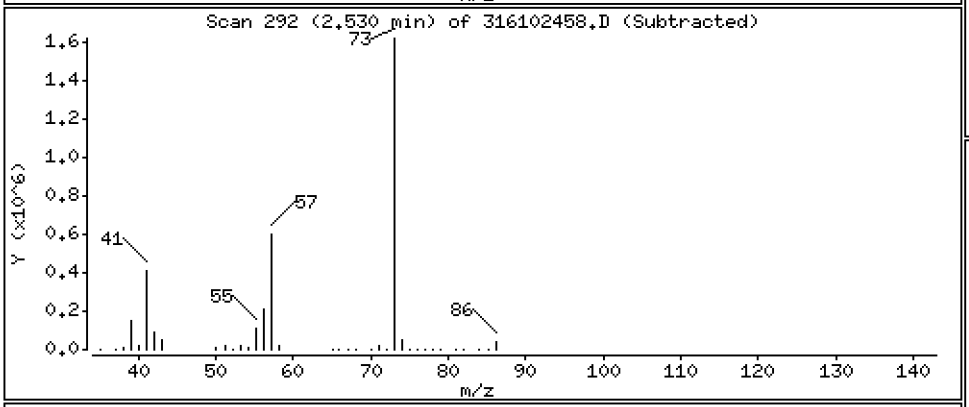
Purge Volume: 5.0 Operator: CJG

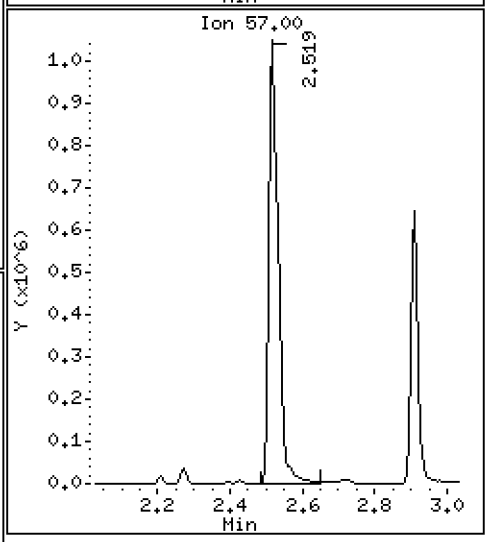
Column phase: DB-VRX Column diameter: 0.25

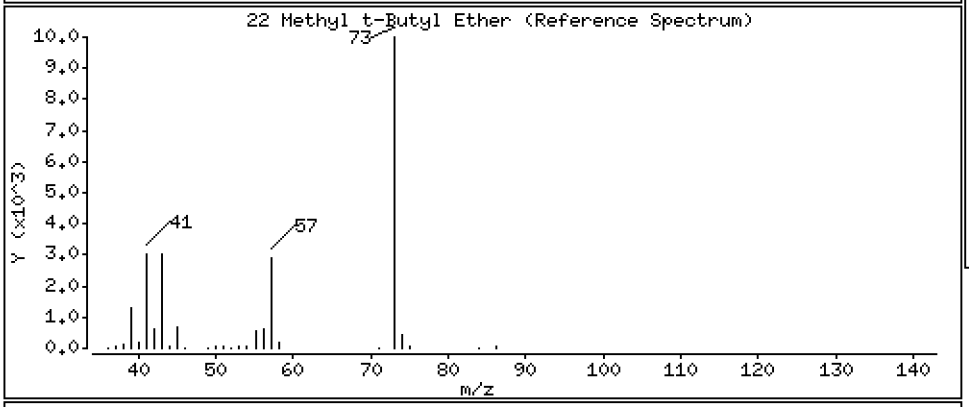
22 Methyl t-Butyl Ether Concentration: 100.084 ug/L

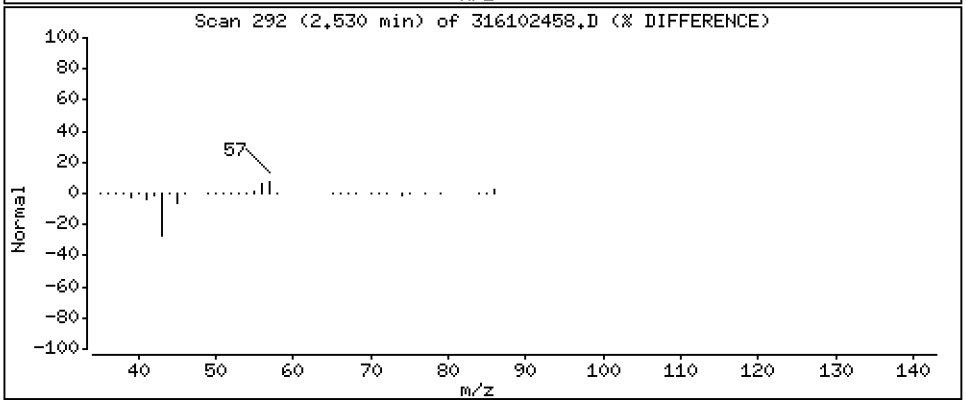












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 31

Date : 25-OCT-2016 01:14

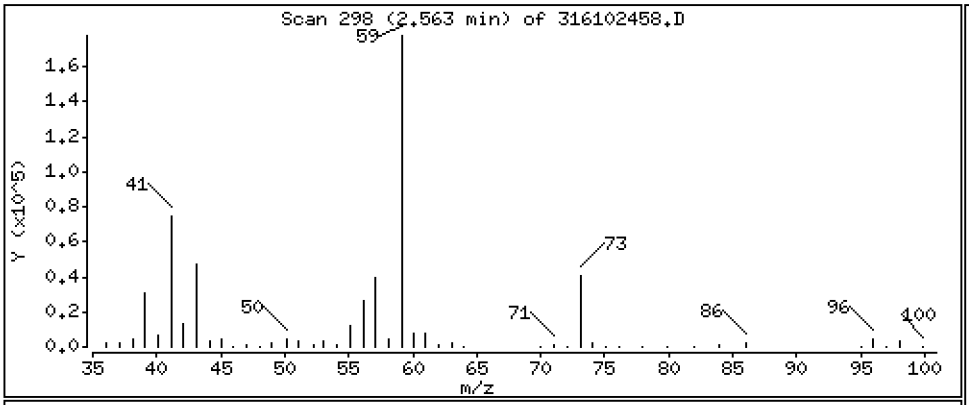
Client ID: Instrument: ms03.i

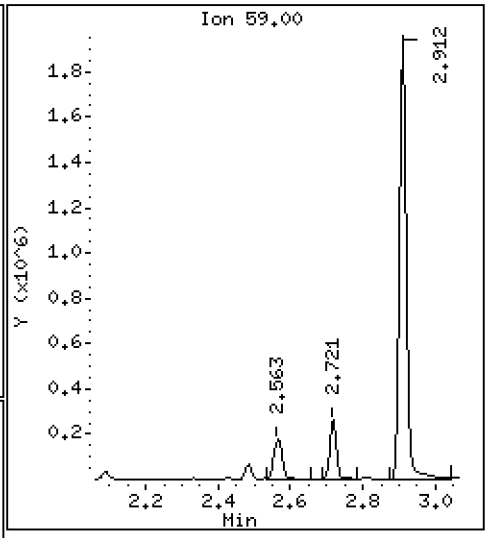
Sample Info: 1238;;1;1;5;;;

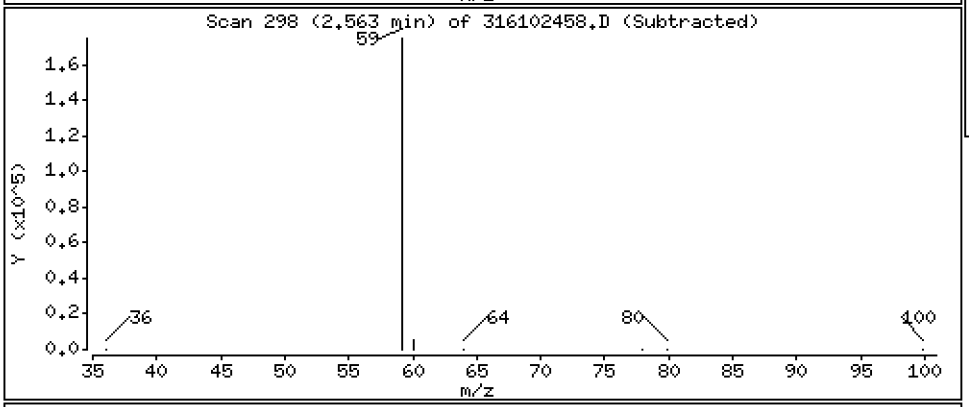
Purge Volume: 5.0 Operator: CJG

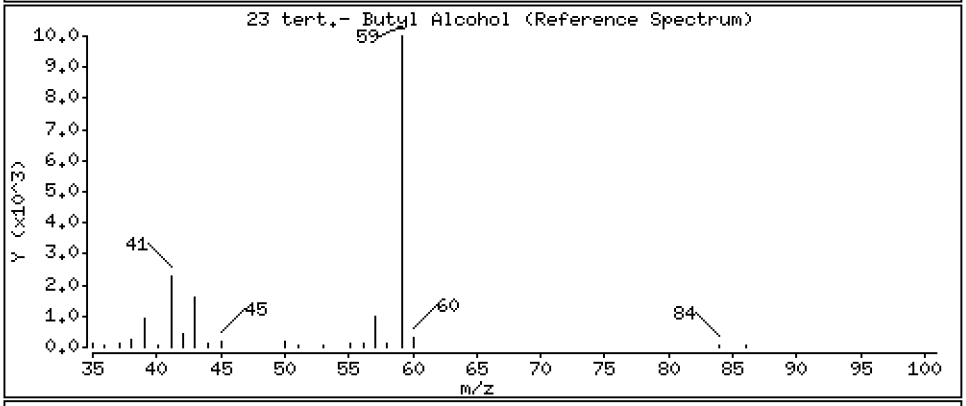
Column phase: DB-VRX Column diameter: 0.25

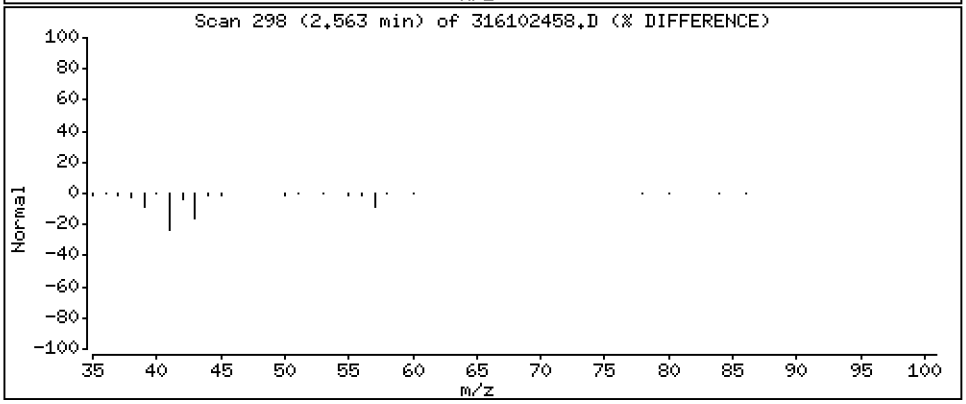
23 tert.- Butyl Alcohol Concentration: 504.132 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 32

Date : 25-OCT-2016 01:14

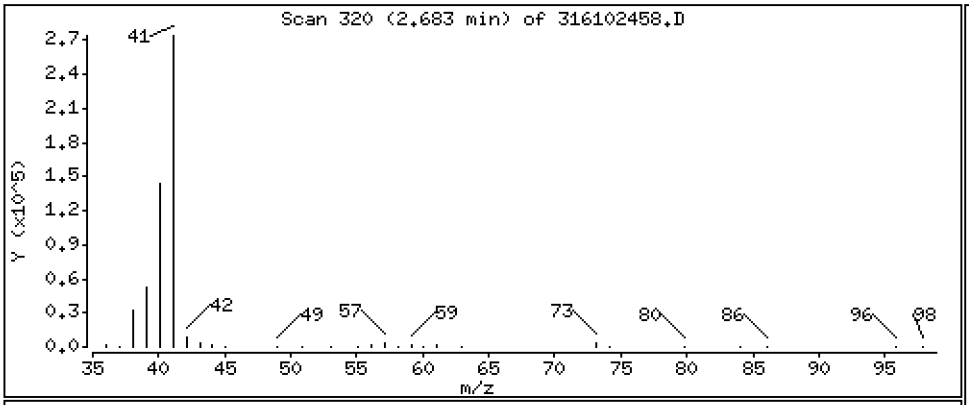
Client ID: Instrument: ms03.i

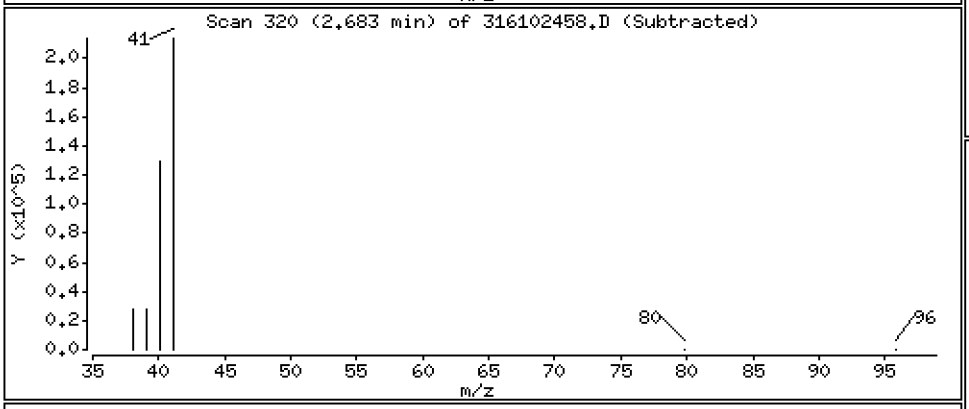
Sample Info: 1238;;1;1;5;;;

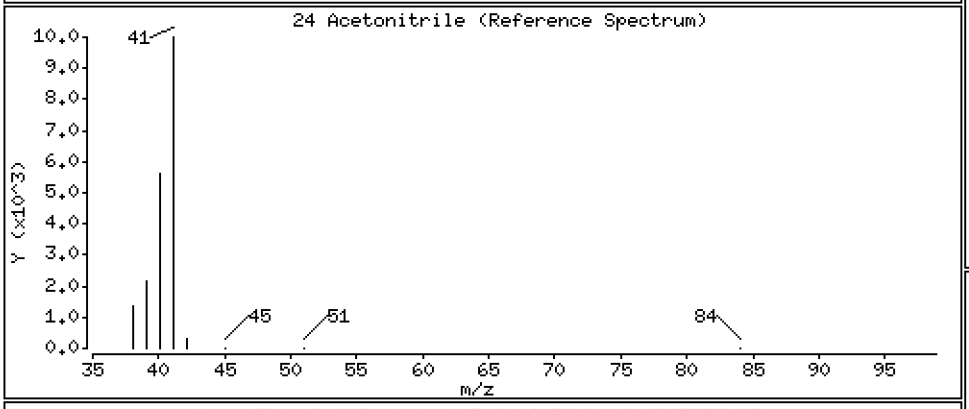
Purge Volume: 5.0 Operator: CJG

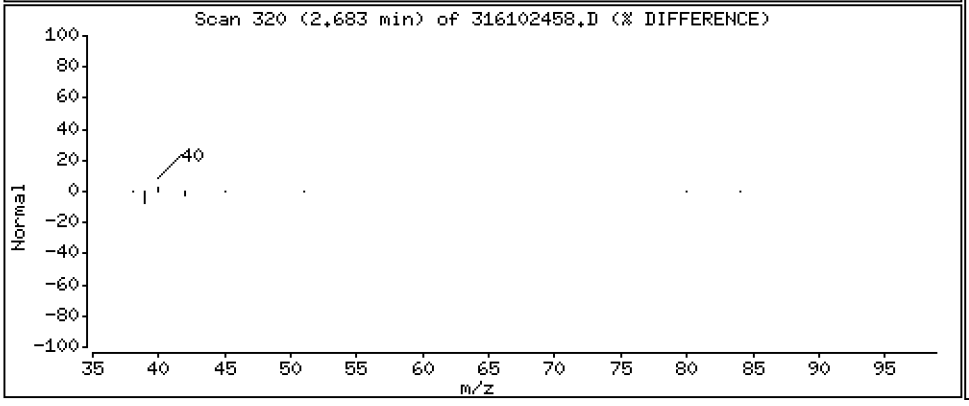
Column phase: DB-VRX Column diameter: 0.25

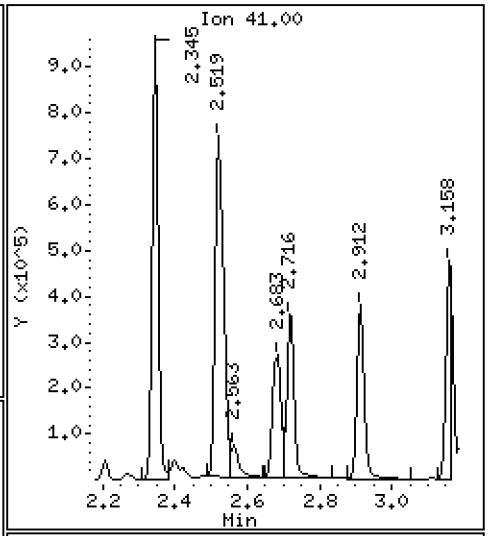
24 Acetonitrile Concentration: 495.610 ug/L

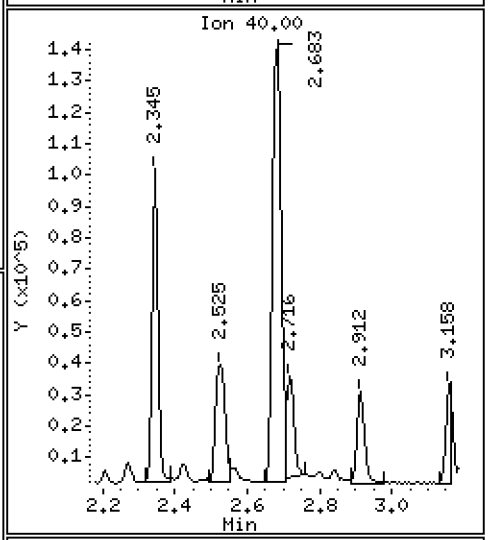


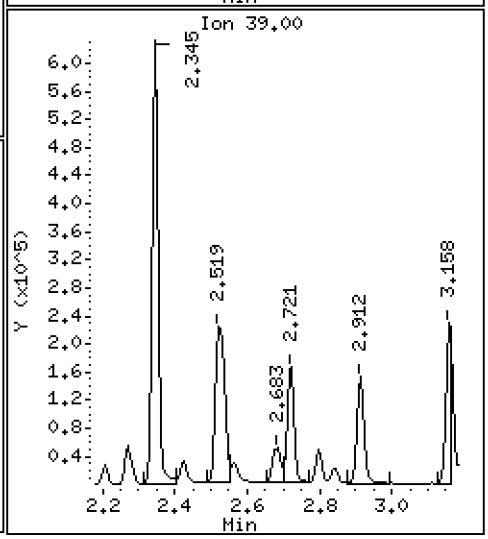












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 33

Date : 25-OCT-2016 01:14

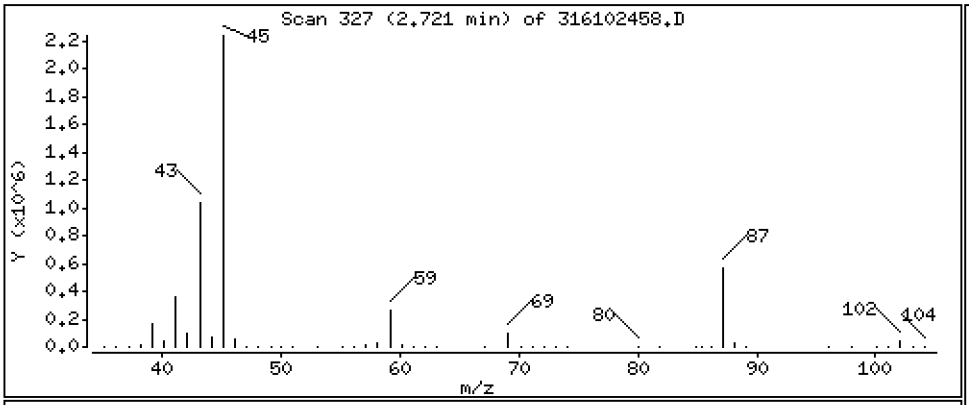
Client ID: Instrument: ms03.i

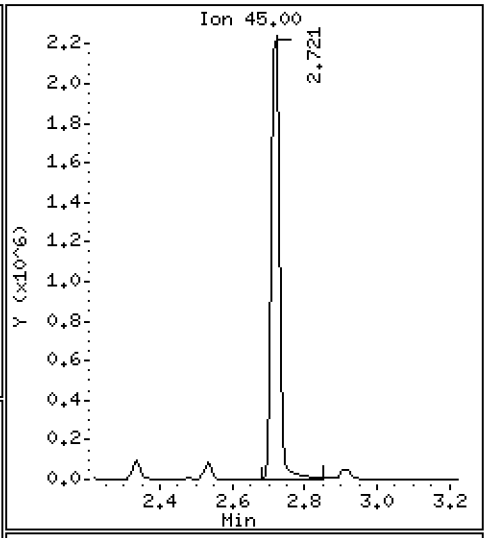
Sample Info: 1238;;1;1;5;;;

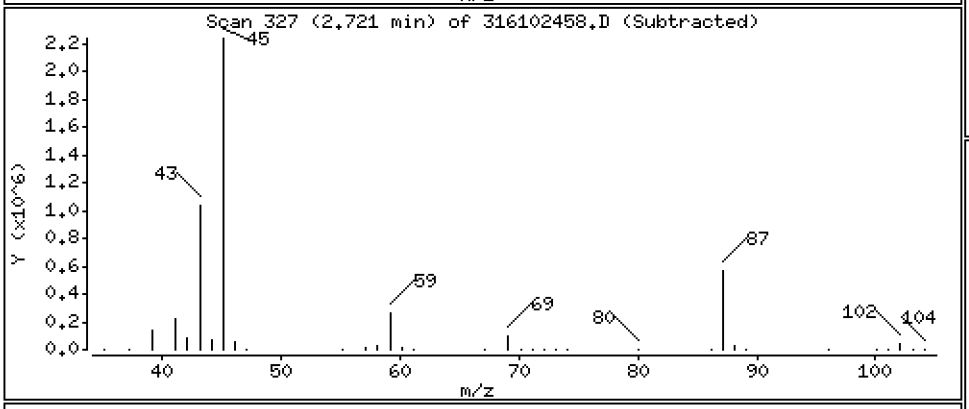
Purge Volume: 5.0 Operator: CJG

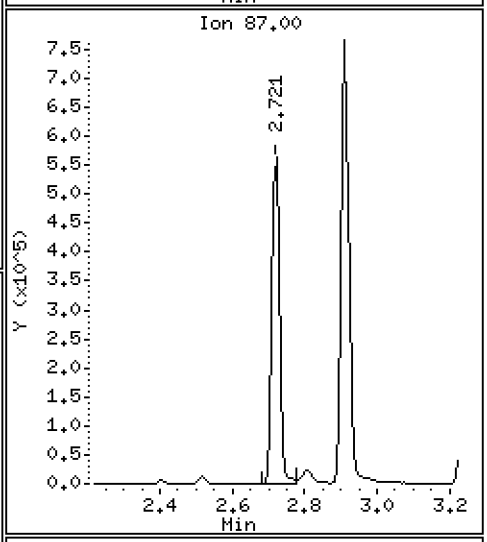
Column phase: DB-VRX Column diameter: 0.25

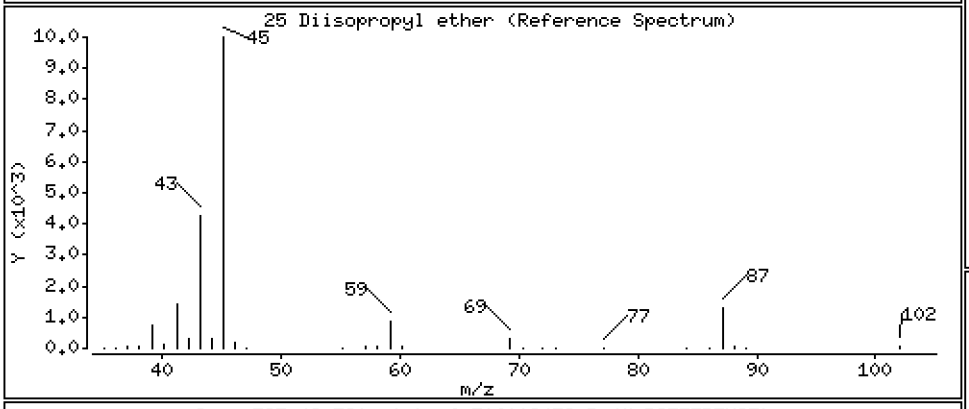
25 Diisopropyl ether Concentration: 100.507 ug/L

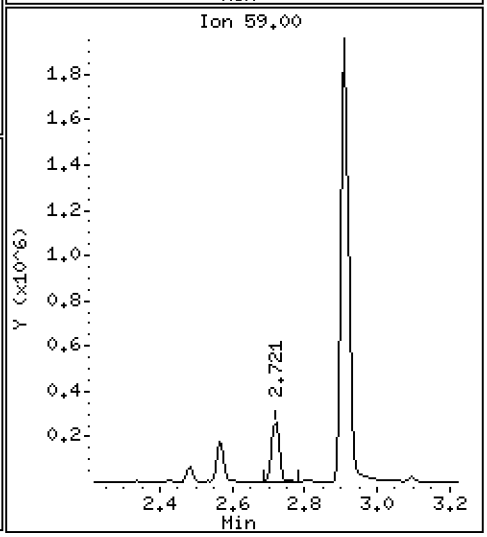


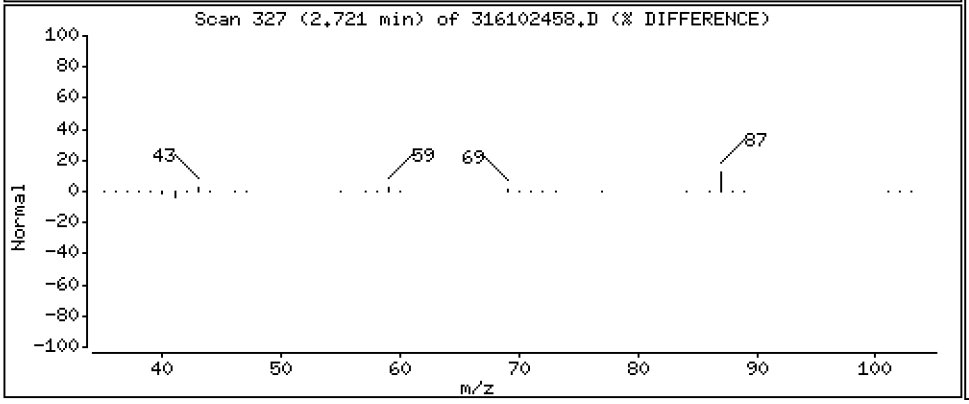












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 34

Date : 25-OCT-2016 01:14

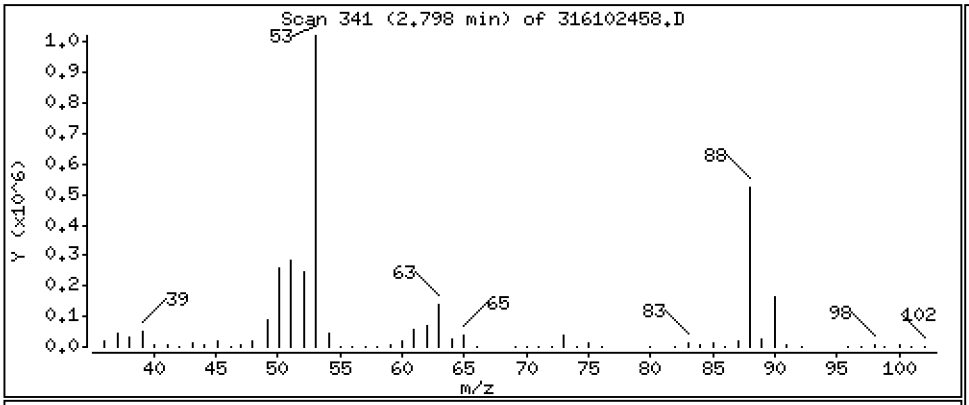
Client ID: Instrument: ms03.i

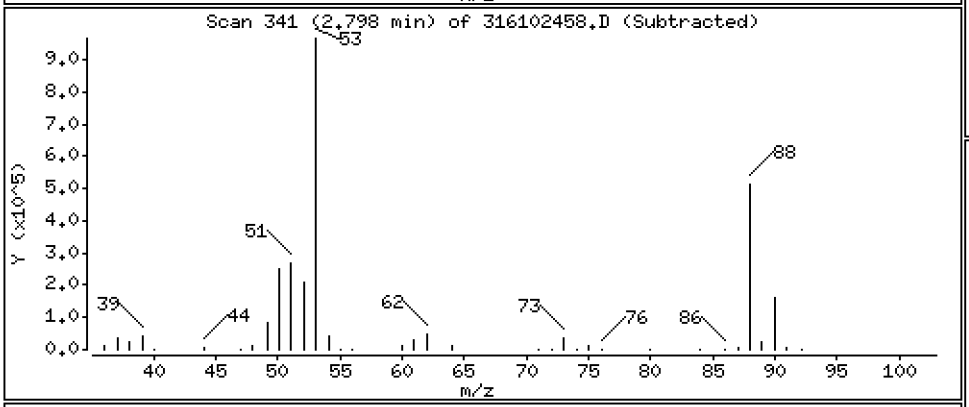
Sample Info: 1238;;1;1;5;;;

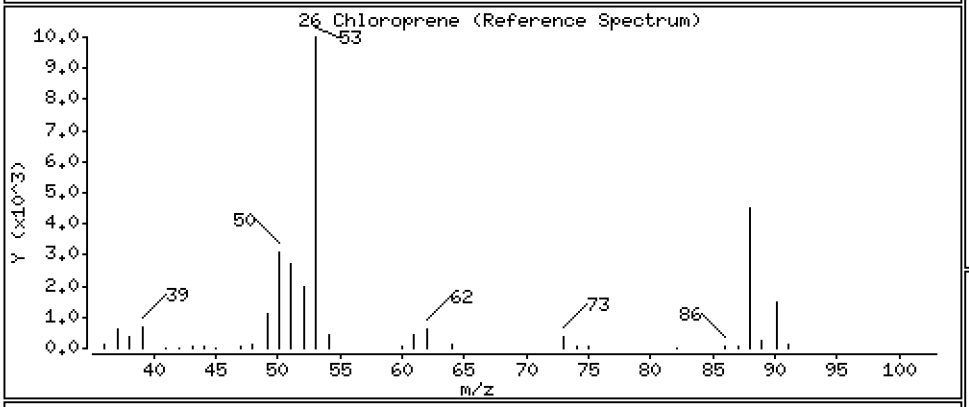
Purge Volume: 5.0 Operator: CJG

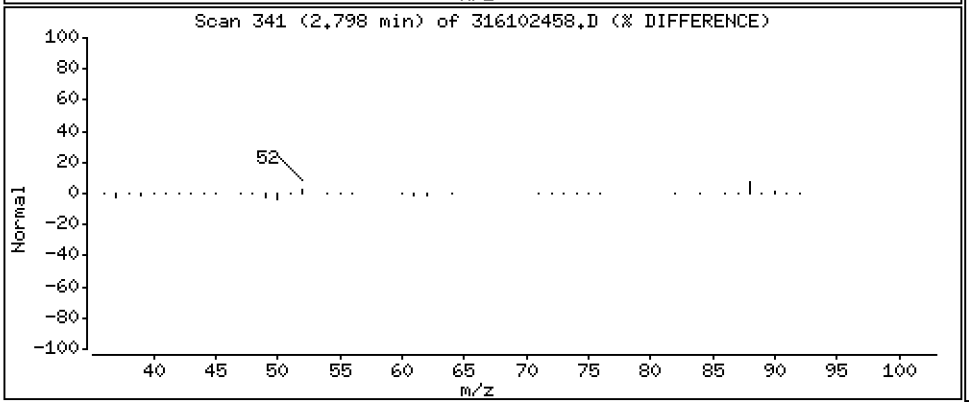
Column phase: DB-VRX Column diameter: 0.25

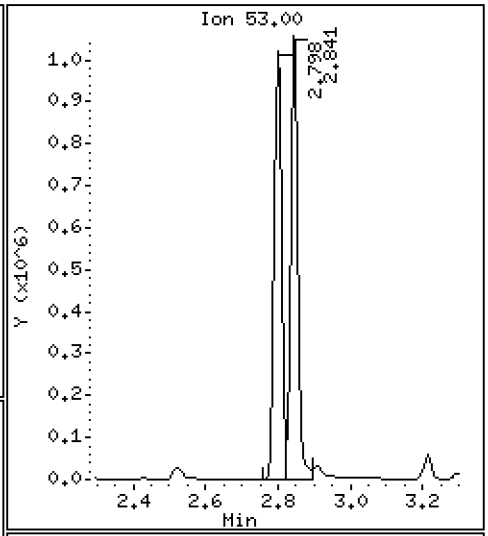
26 Chloroprene Concentration: 99.9955 ug/L

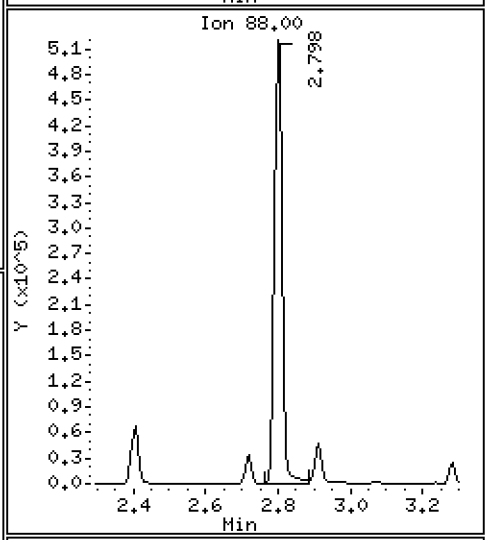


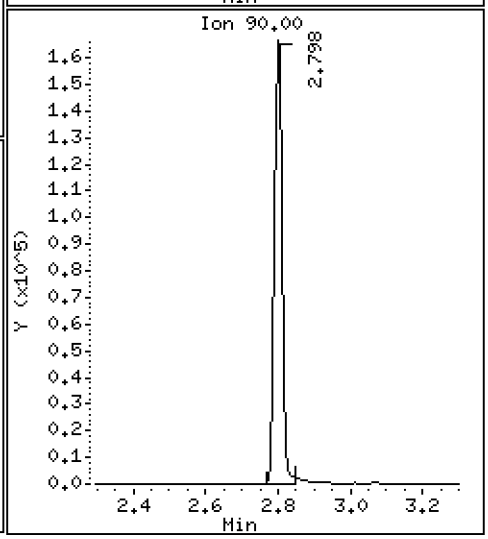












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 35

Date : 25-OCT-2016 01:14

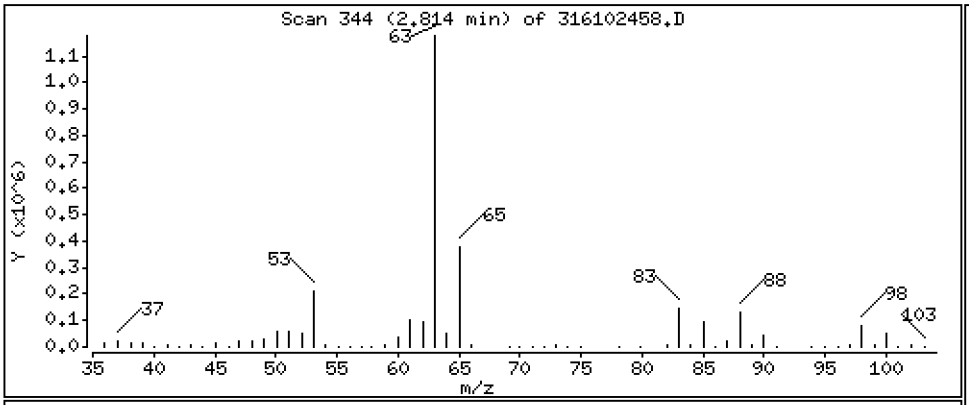
Client ID: Instrument: ms03.i

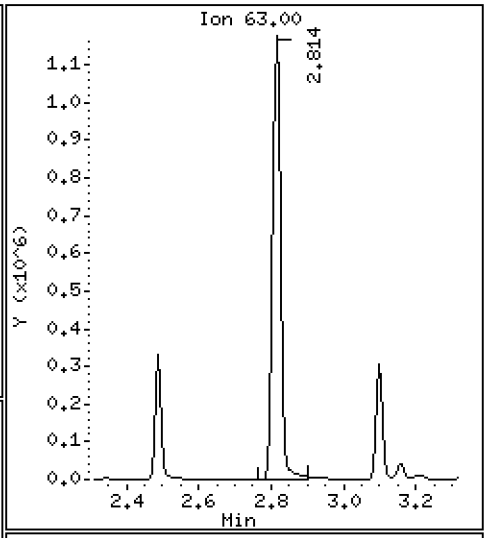
Sample Info: 1238;;1;1;5;;;

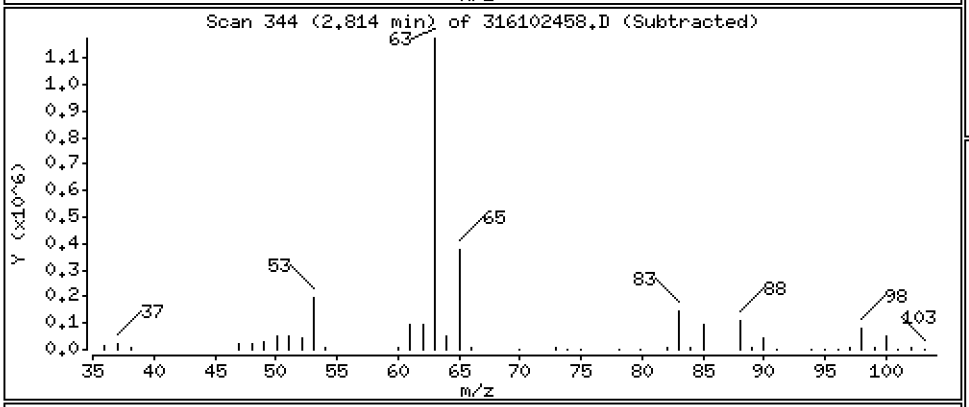
Purge Volume: 5.0 Operator: CJG

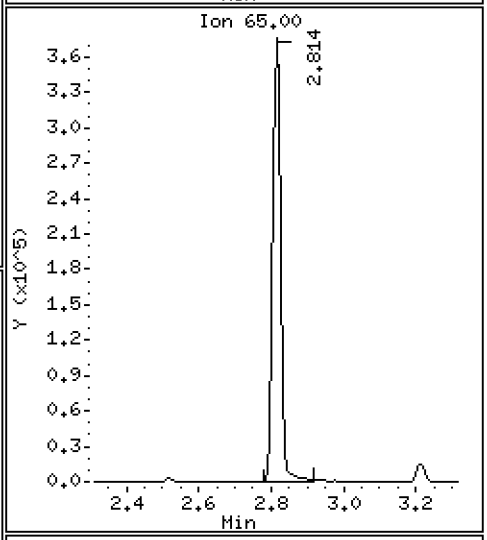
Column phase: DB-VRX Column diameter: 0.25

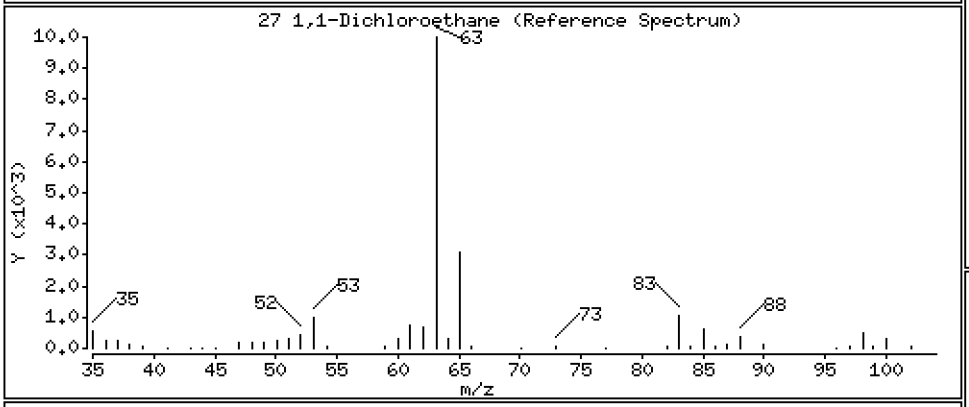
27 1,1-Dichloroethane Concentration: 99.5155 ug/L

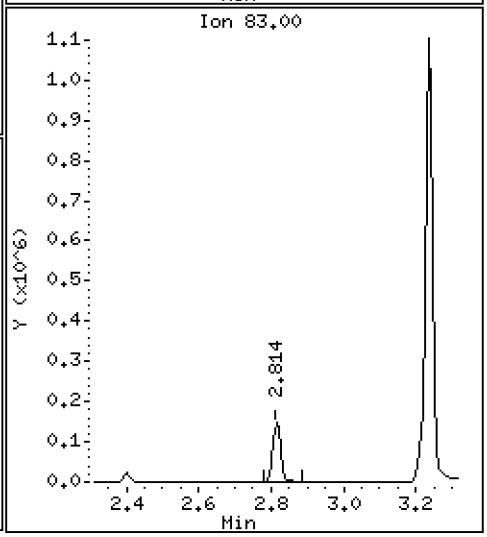


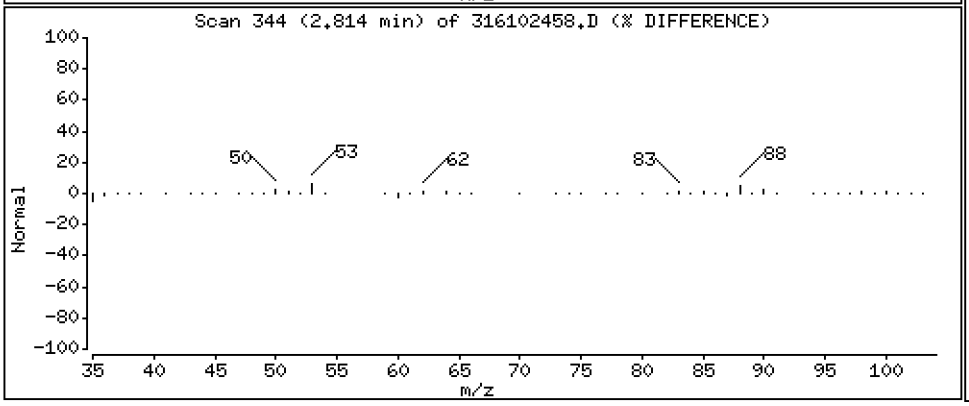












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 36

Date : 25-OCT-2016 01:14

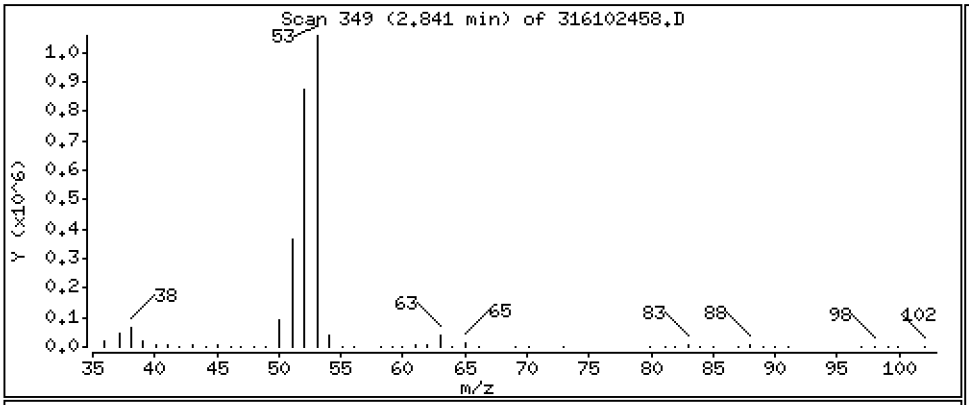
Client ID: Instrument: ms03.i

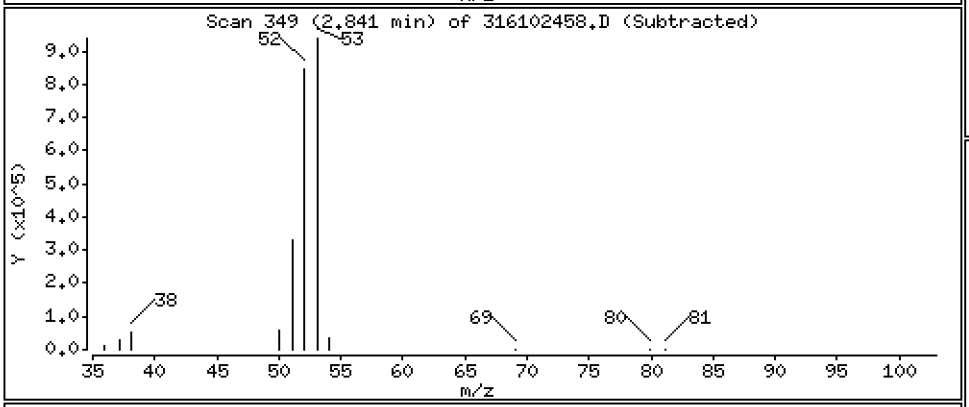
Sample Info: 1238;;1;1;5;;;

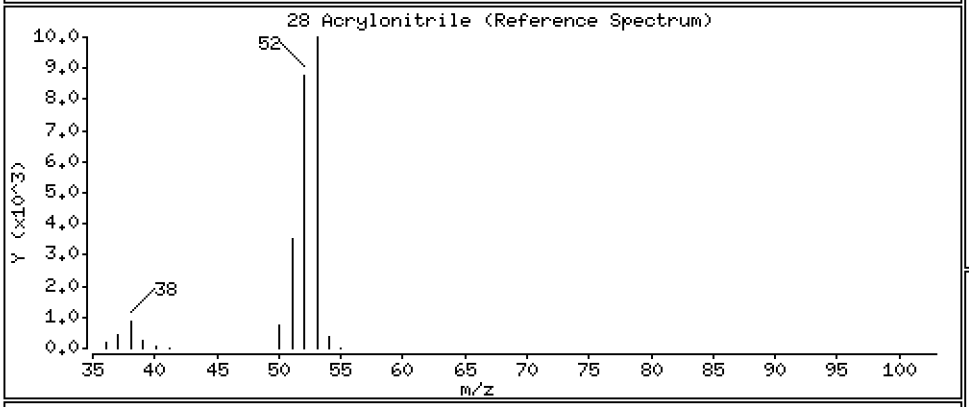
Purge Volume: 5.0 Operator: CJG

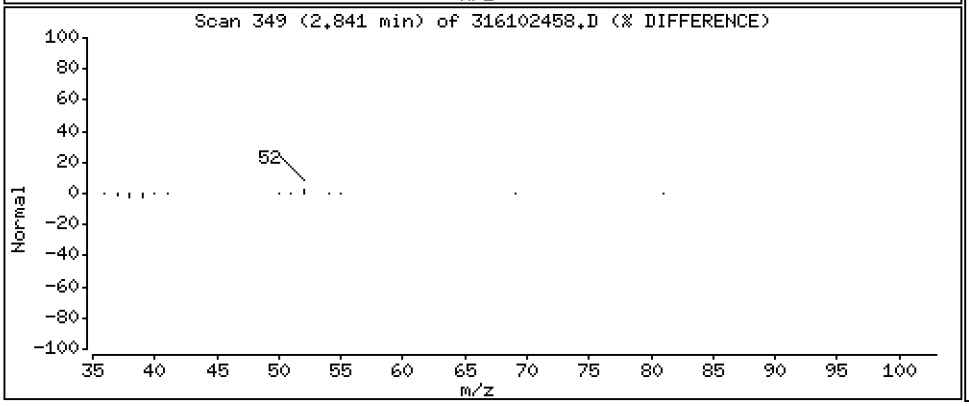
Column phase: DB-VRX Column diameter: 0.25

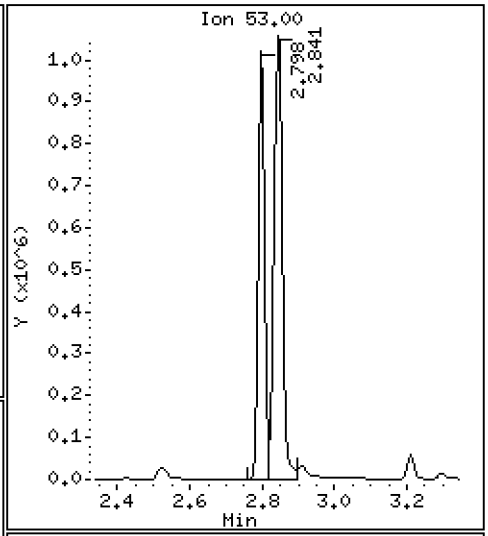
28 Acrylonitrile Concentration: 500.938 ug/L

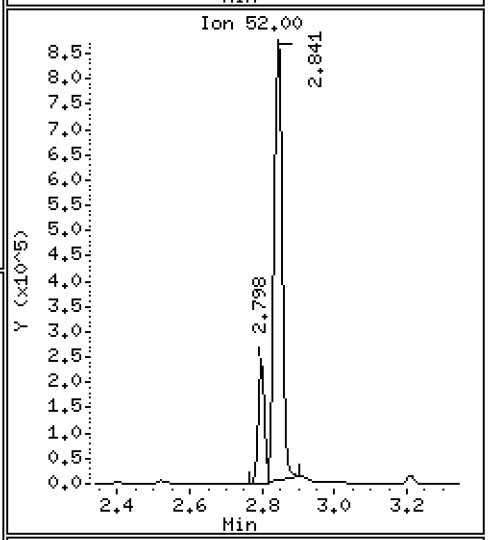


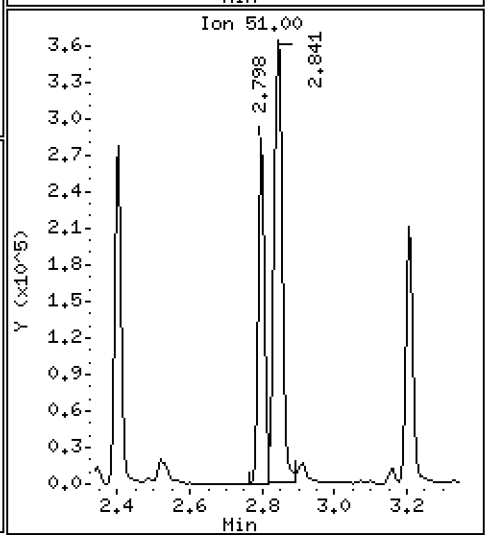












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 37

Date : 25-OCT-2016 01:14

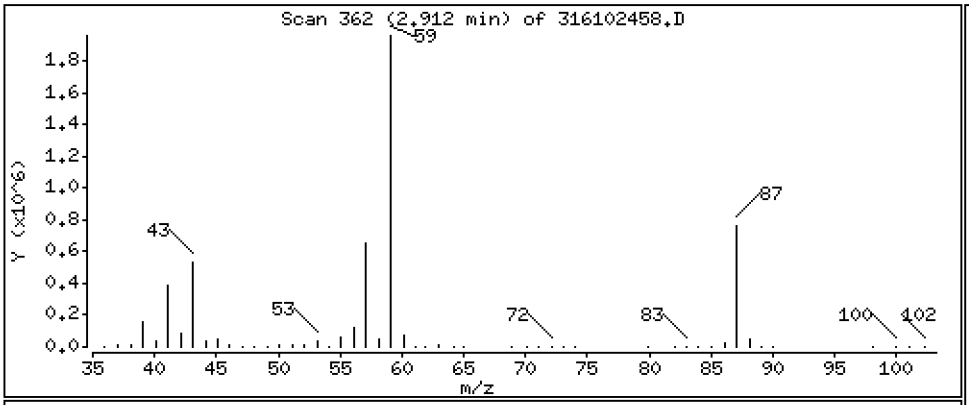
Client ID: Instrument: ms03.i

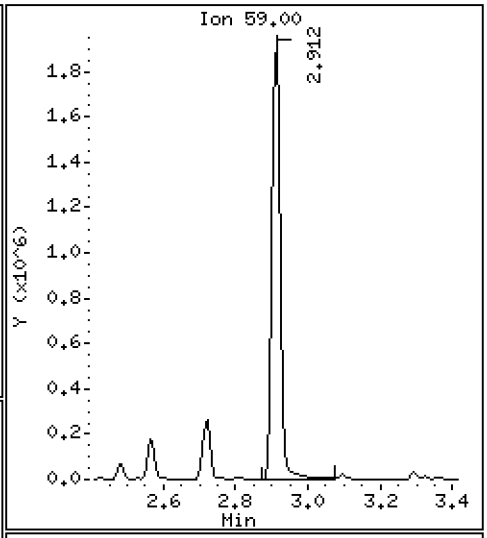
Sample Info: 1238;;1;1;5;;;

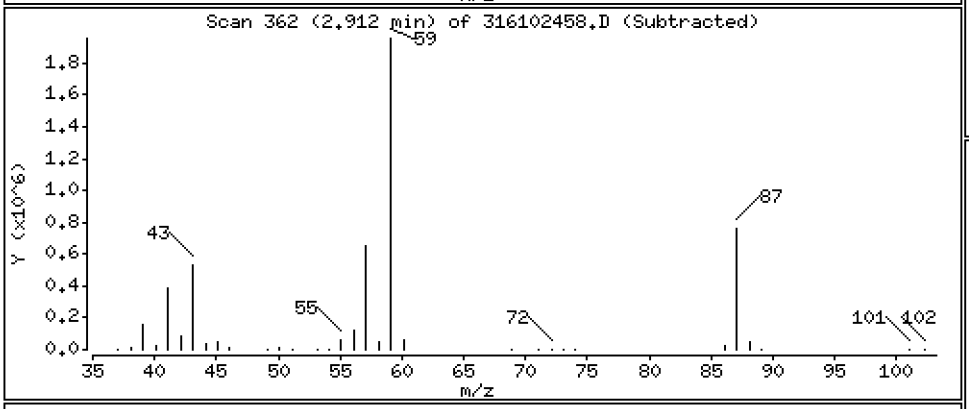
Purge Volume: 5.0 Operator: CJG

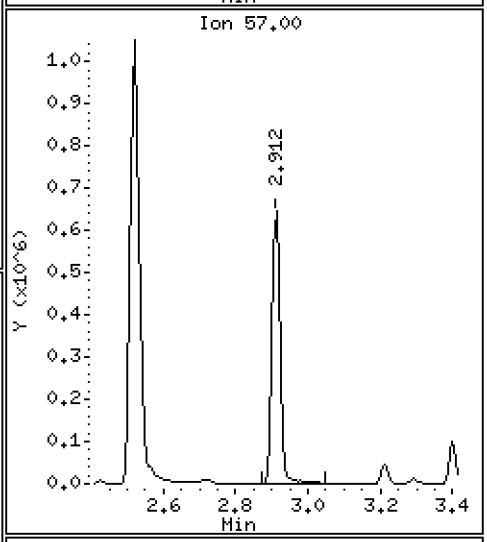
Column phase: DB-VRX Column diameter: 0.25

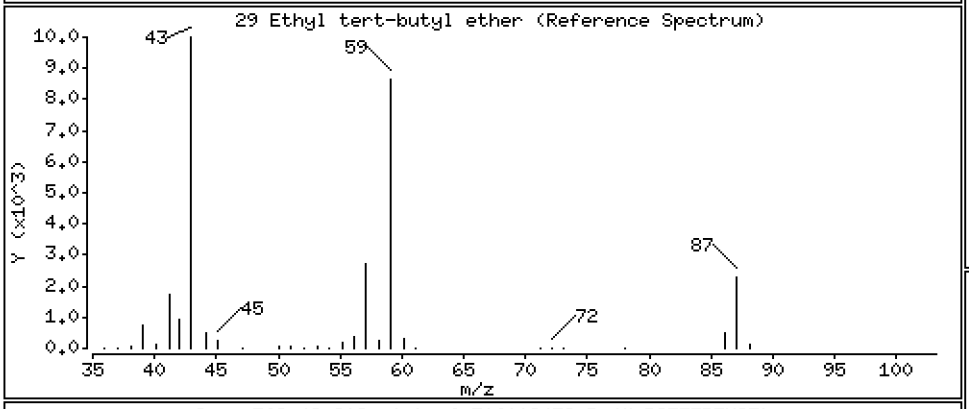
29 Ethyl tert-butyl ether Concentration: 100.885 ug/L

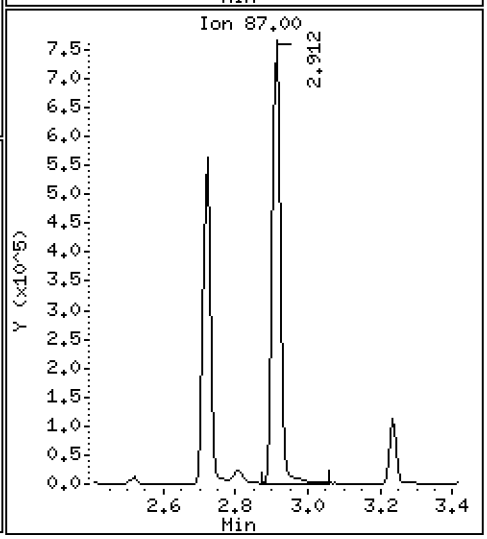


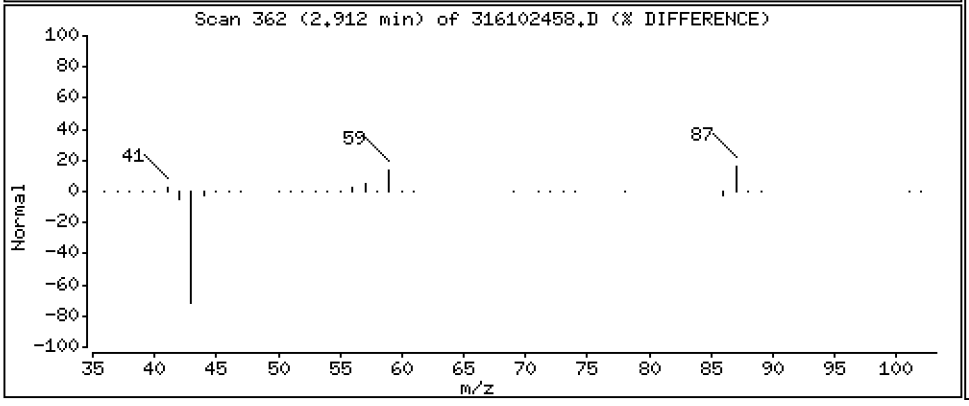












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 38

Date : 25-OCT-2016 01:14

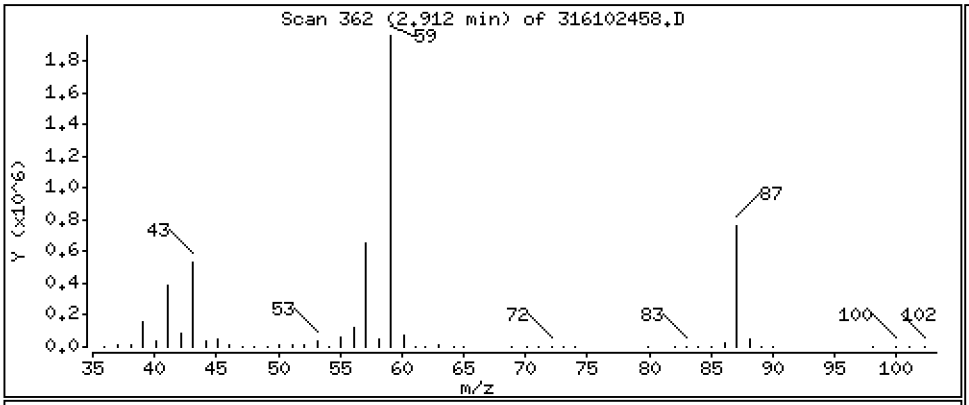
Client ID: Instrument: ms03.i

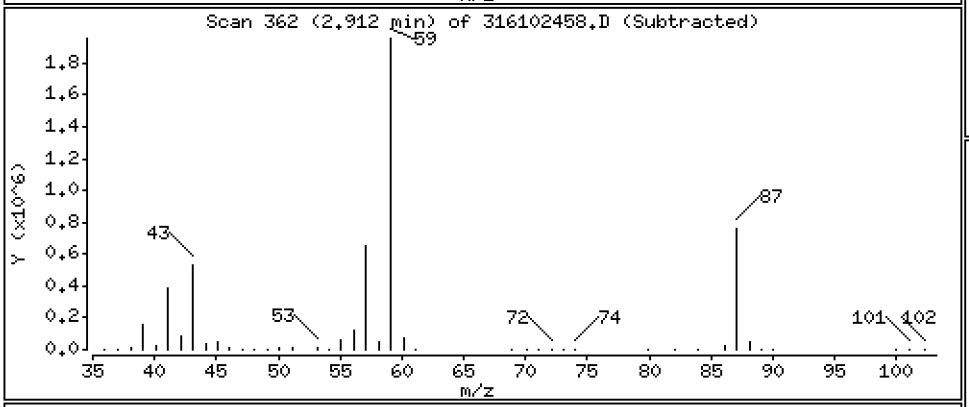
Sample Info: 1238;;1;1;5;;;

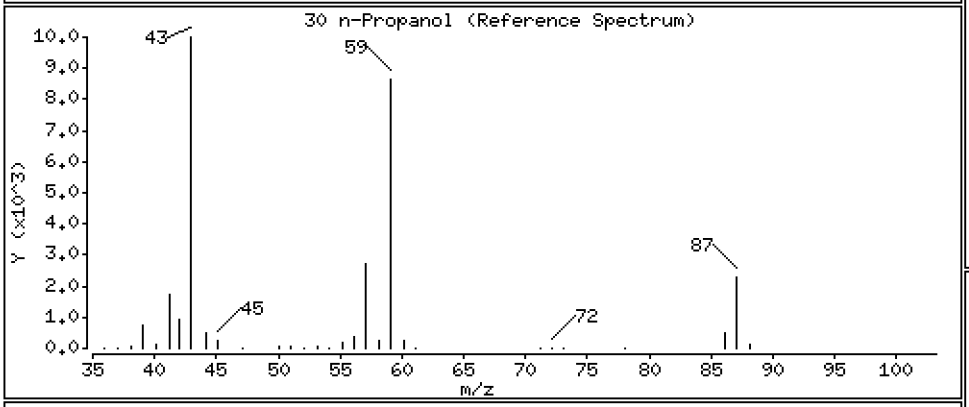
Purge Volume: 5.0 Operator: CJG

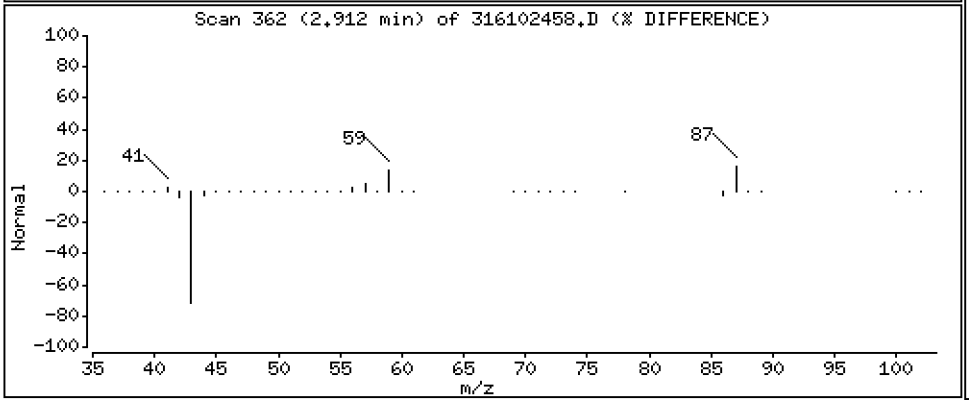
Column phase: DB-VRX Column diameter: 0.25

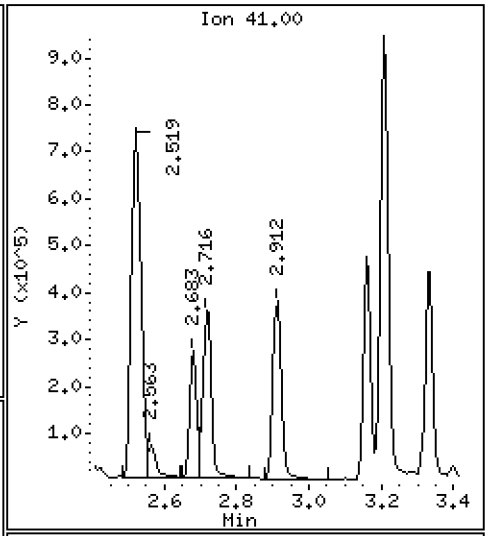
30 n-Propanol Concentration: 999.591 ug/L

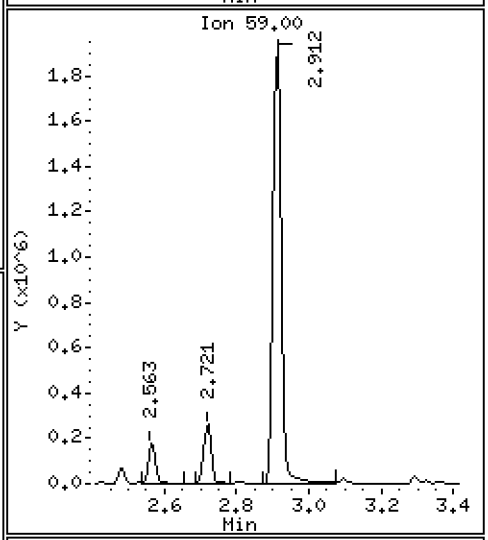


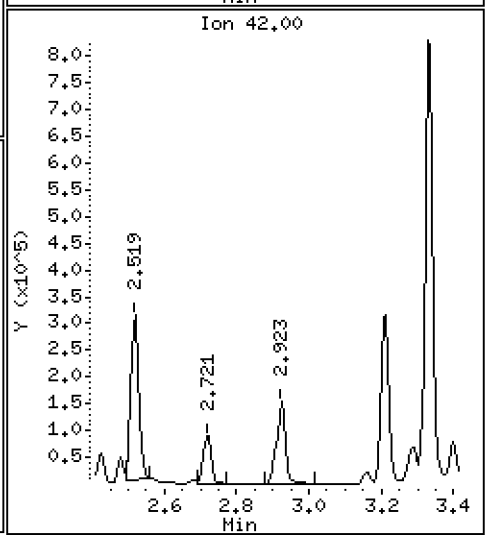












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 39

Date : 25-OCT-2016 01:14

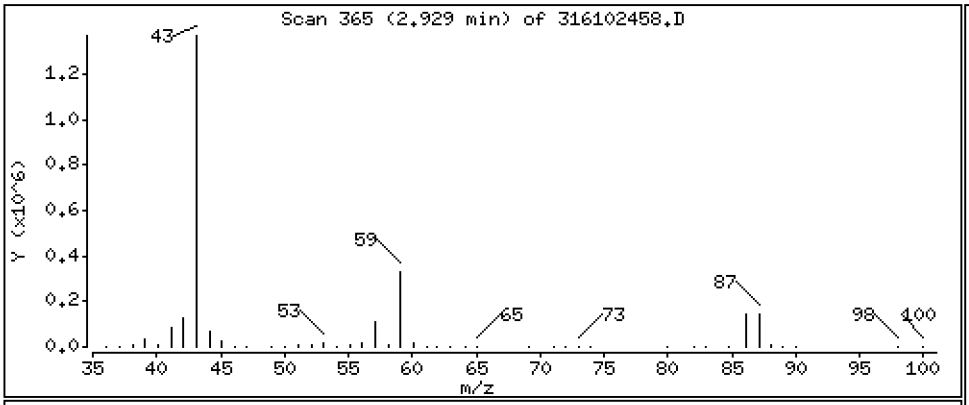
Client ID: Instrument: ms03.i

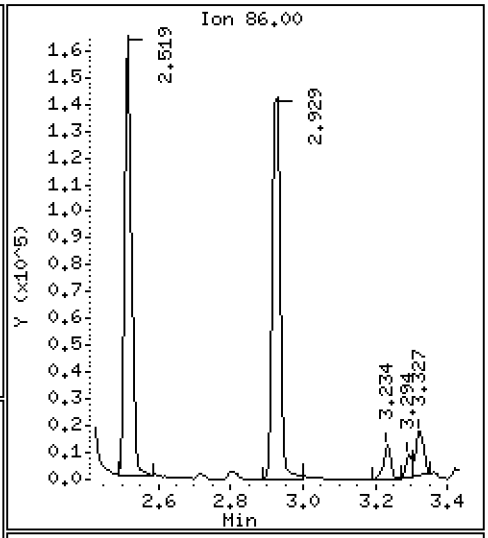
Sample Info: 1238;;1;1;5;;;

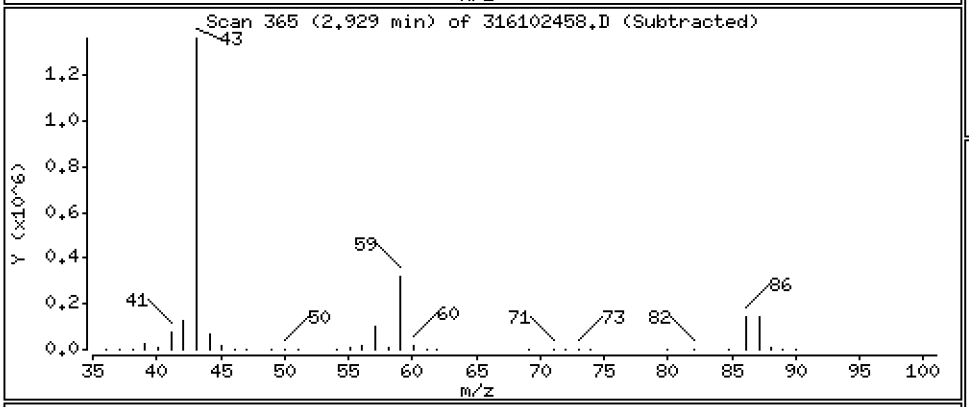
Purge Volume: 5.0 Operator: CJG

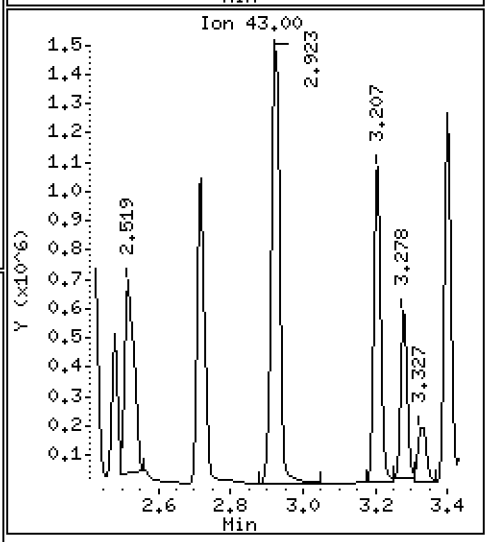
Column phase: DB-VRX Column diameter: 0.25

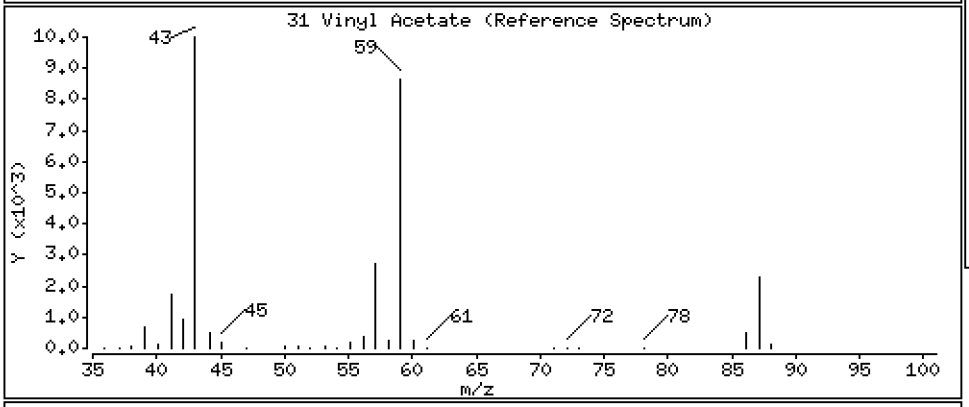
31 Vinyl Acetate Concentration: 100.821 ug/L

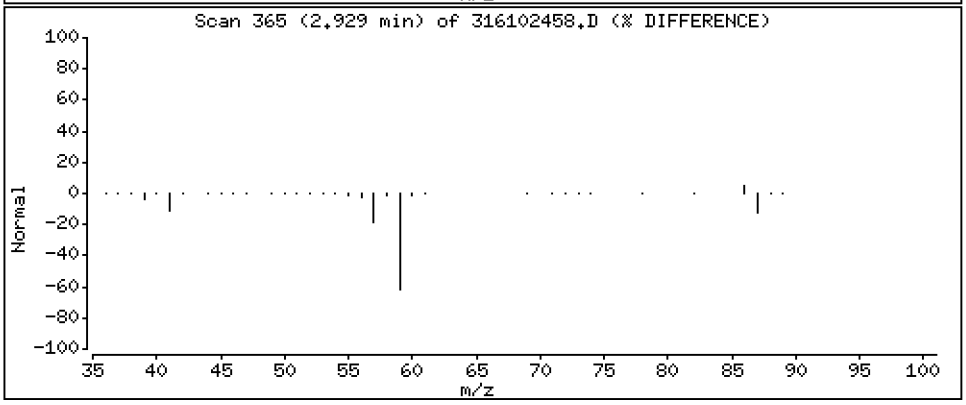












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 40

Date : 25-OCT-2016 01:14

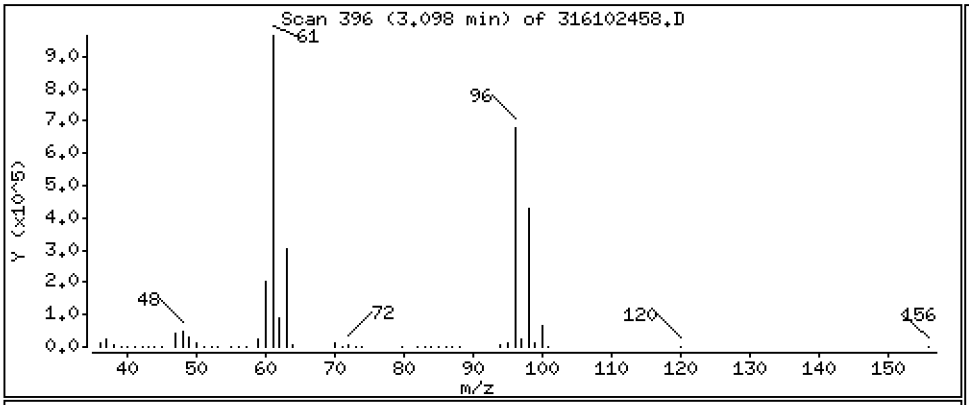
Client ID: Instrument: ms03.i

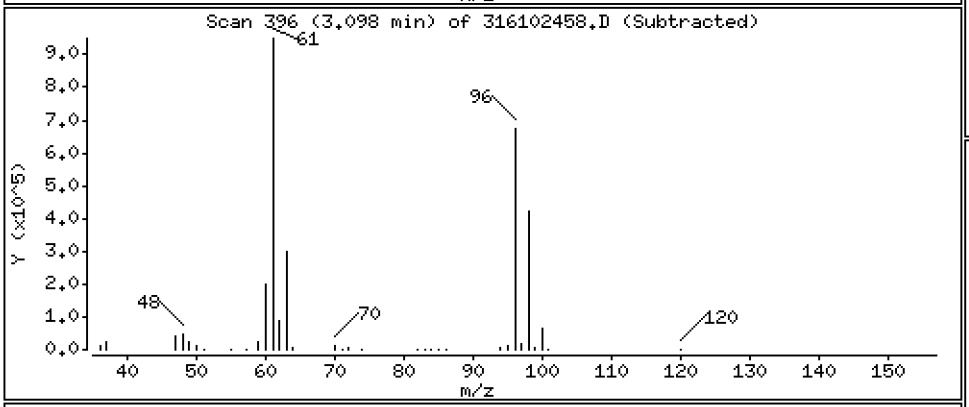
Sample Info: 1238;;1;1;5;;;

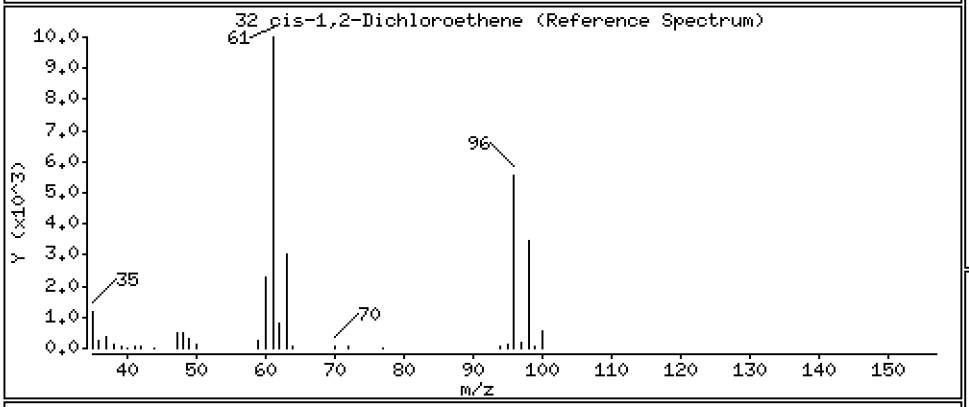
Purge Volume: 5.0 Operator: CJG

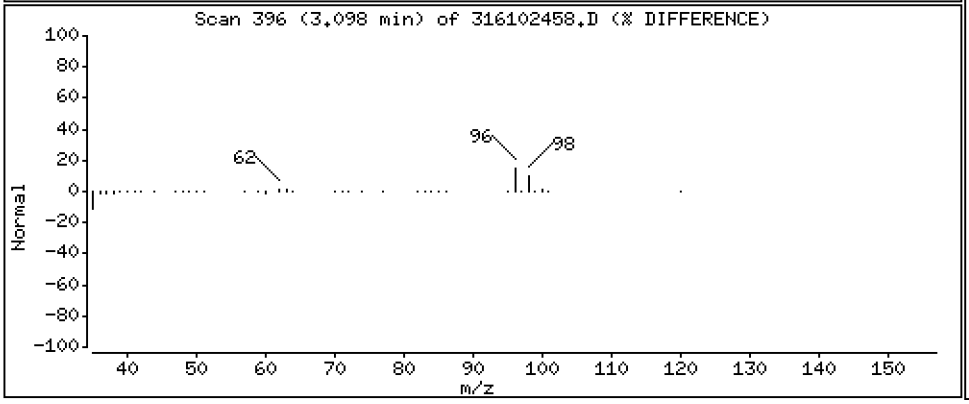
Column phase: DB-VRX Column diameter: 0.25

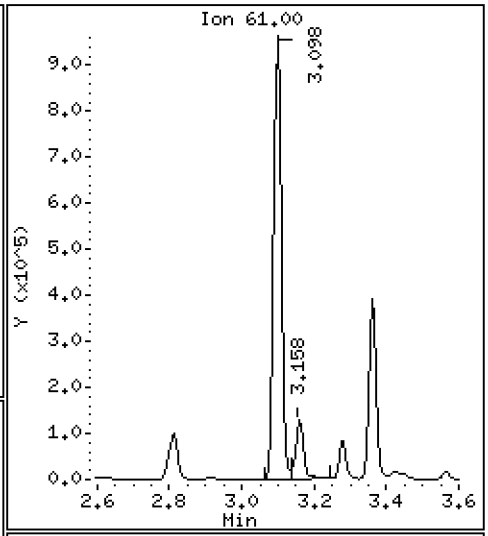
32 cis-1,2-Dichloroethene Concentration: 99.8989 ug/L

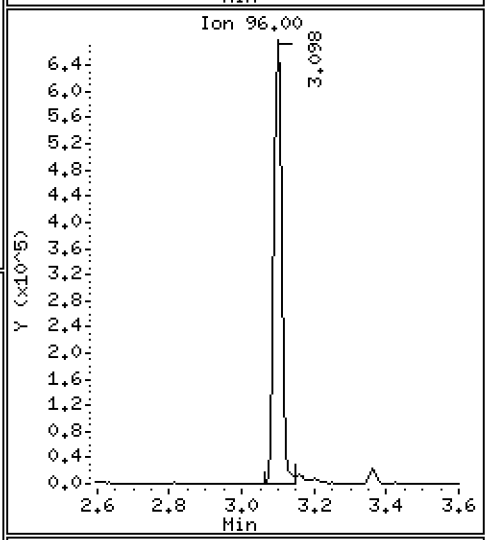


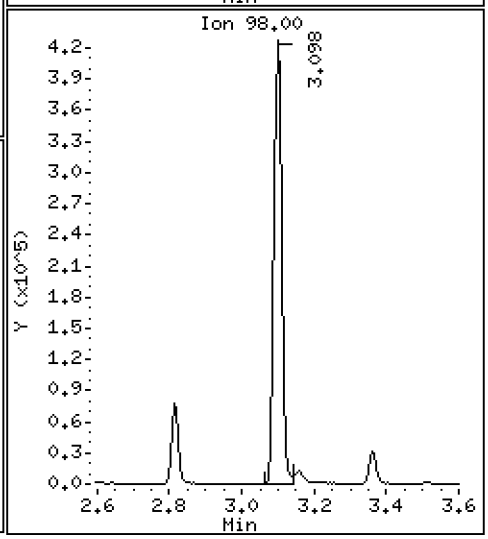












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 41

Date : 25-OCT-2016 01:14

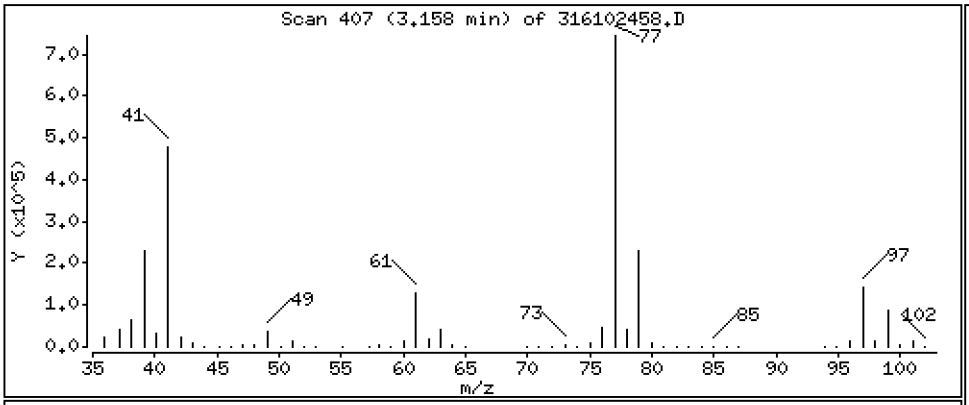
Client ID: Instrument: ms03.i

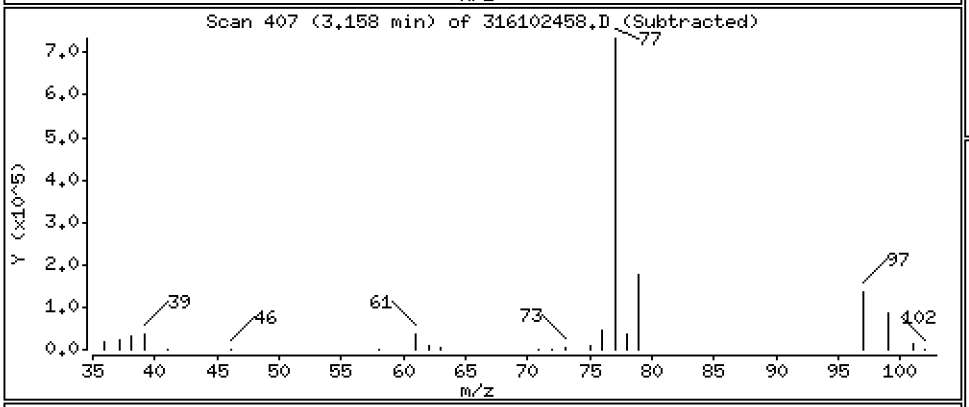
Sample Info: 1238;;1;1;5;;;

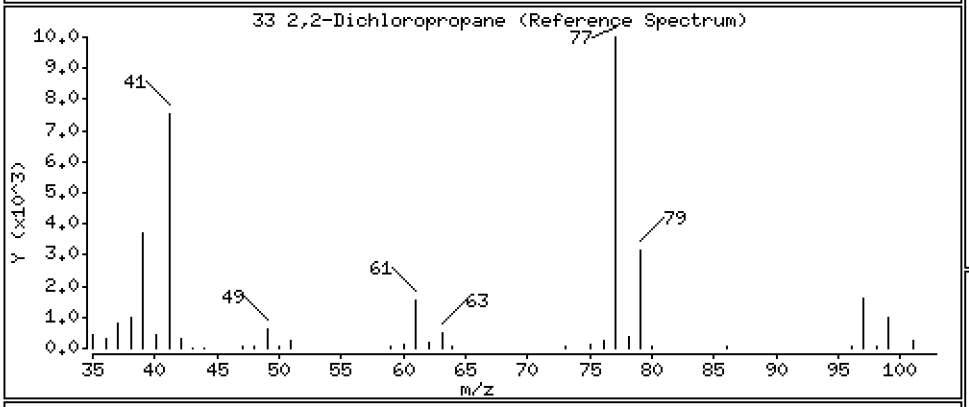
Purge Volume: 5.0 Operator: CJG

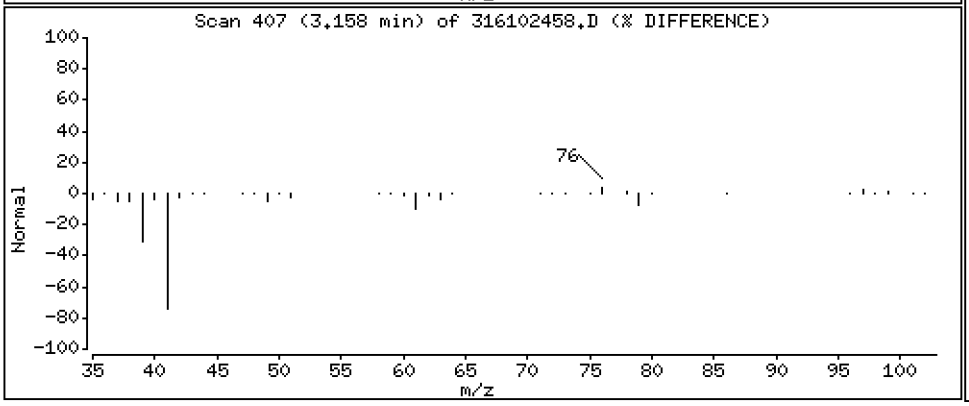
Column phase: DB-VRX Column diameter: 0.25

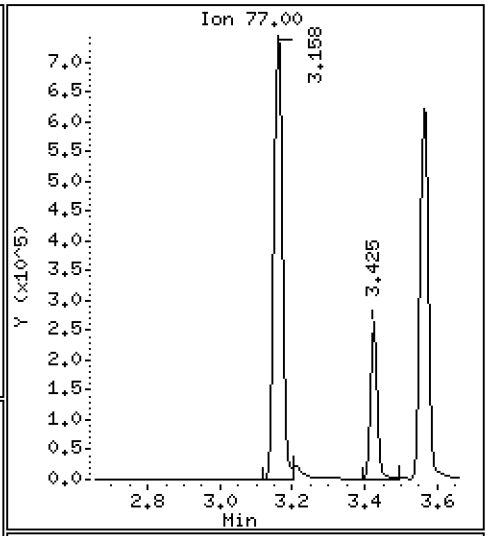
33 2,2-Dichloropropane Concentration: 100.500 ug/L

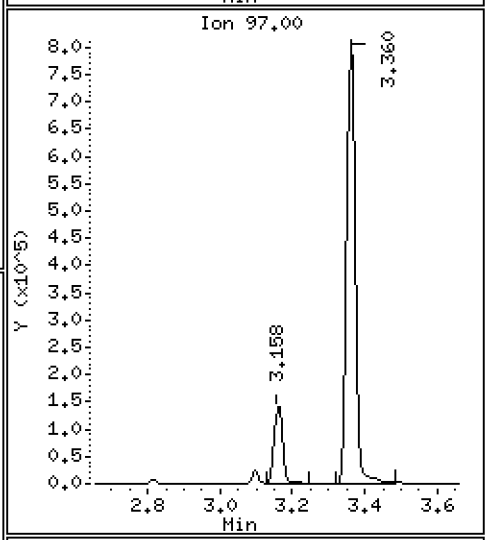


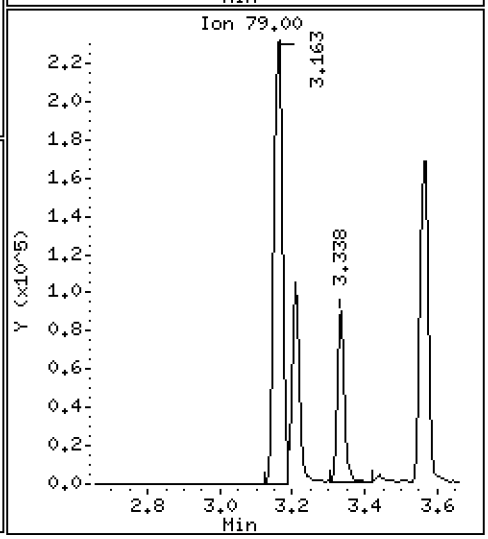












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 42

Date : 25-OCT-2016 01:14

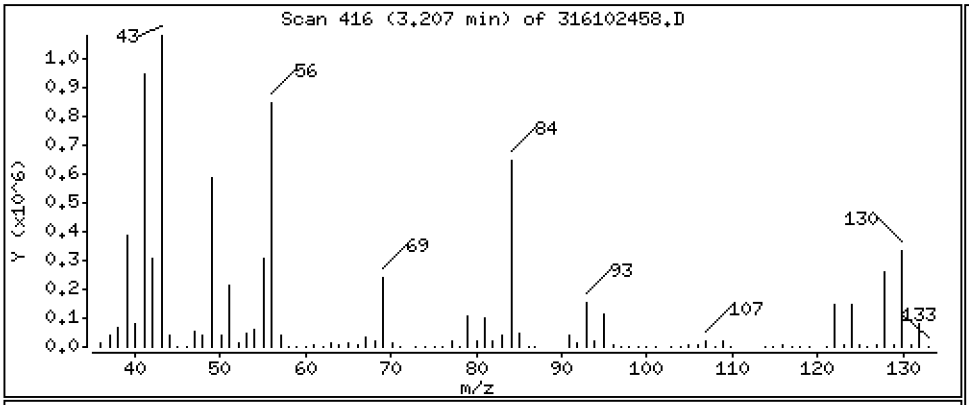
Client ID: Instrument: ms03.i

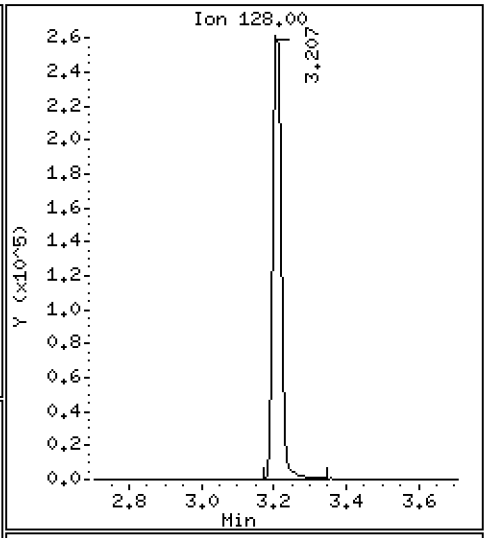
Sample Info: 1238;;1;1;5;;;

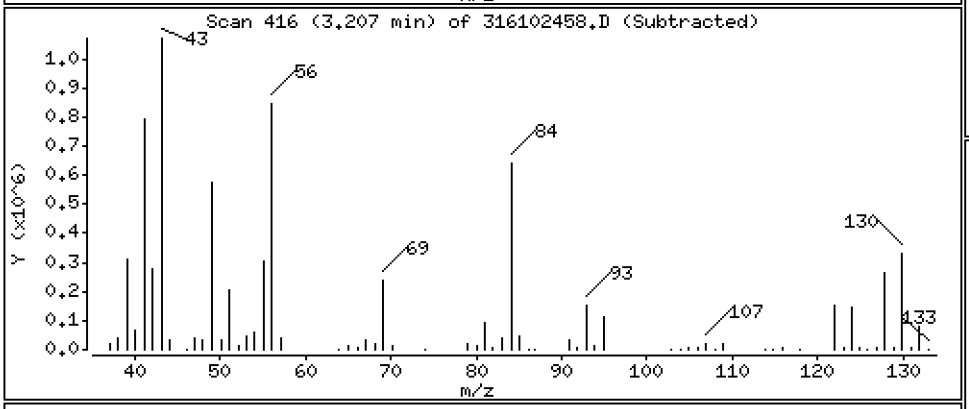
Purge Volume: 5.0 Operator: CJG

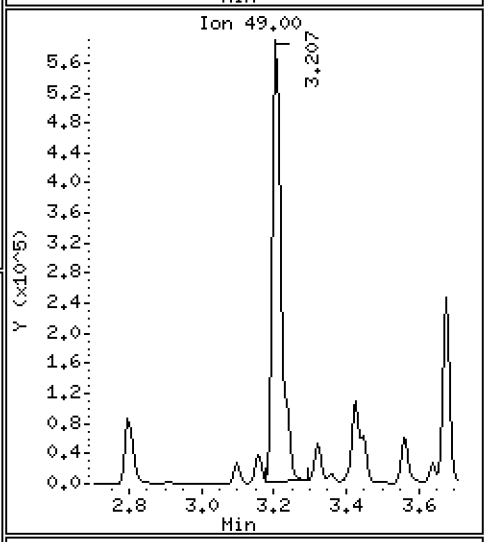
Column phase: DB-VRX Column diameter: 0.25

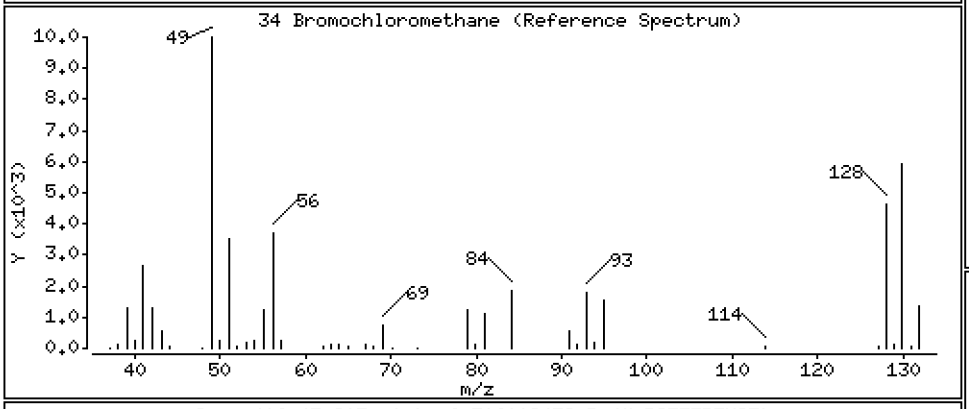
34 Bromochloromethane Concentration: 101.645 ug/L

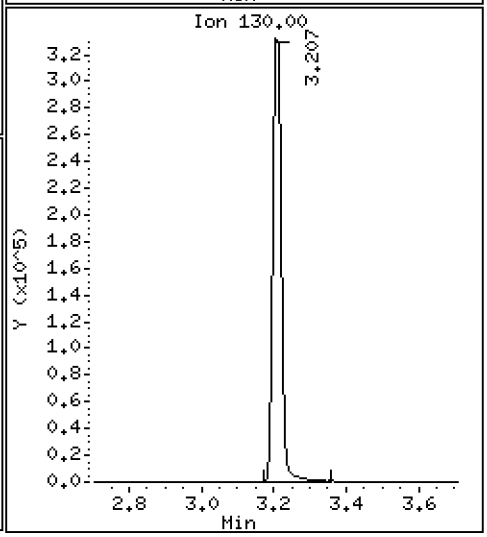


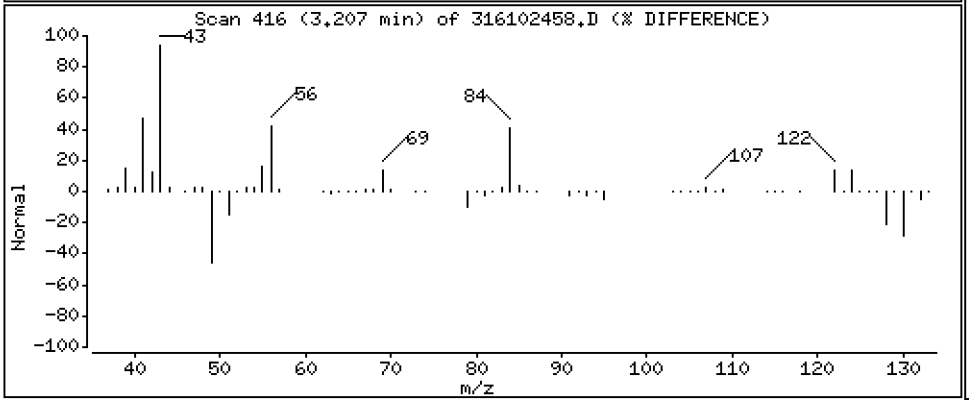












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 43

Date : 25-OCT-2016 01:14

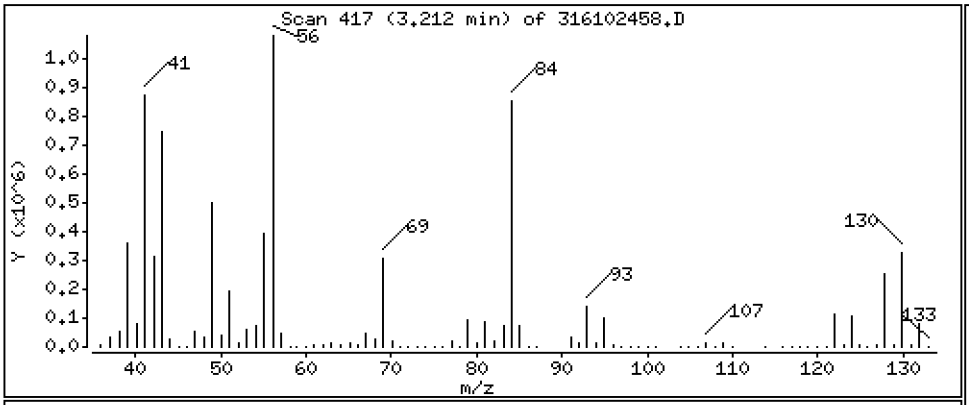
Client ID: Instrument: ms03.i

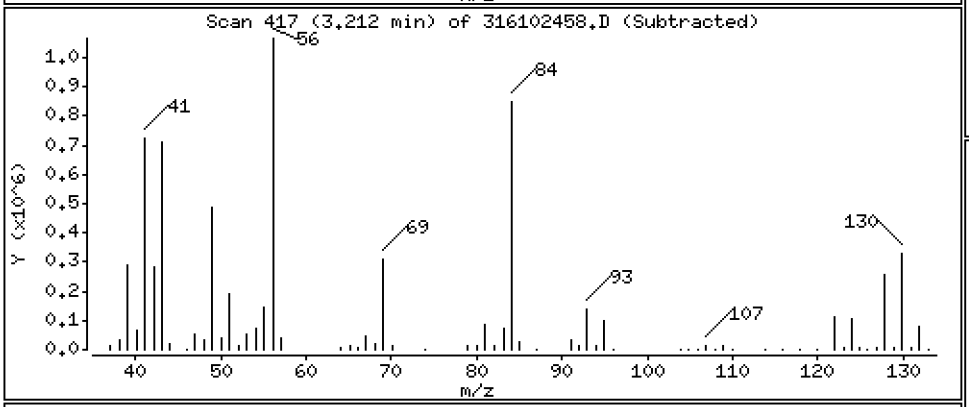
Sample Info: 1238;;1;1;5;;;

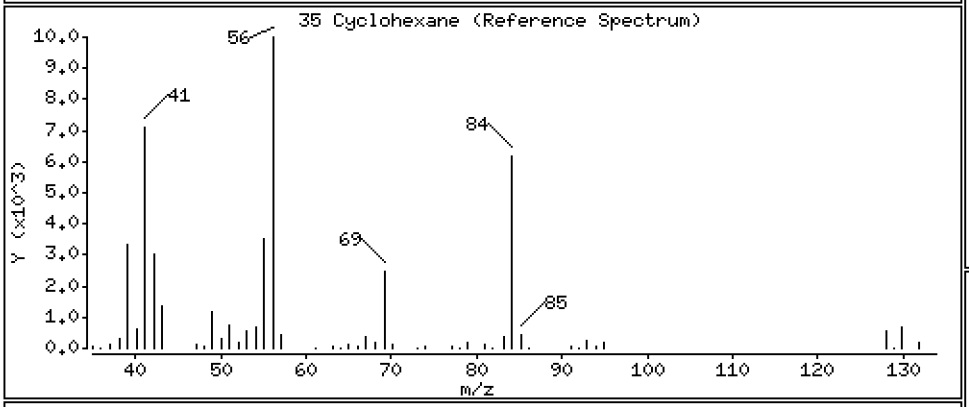
Purge Volume: 5.0 Operator: CJG

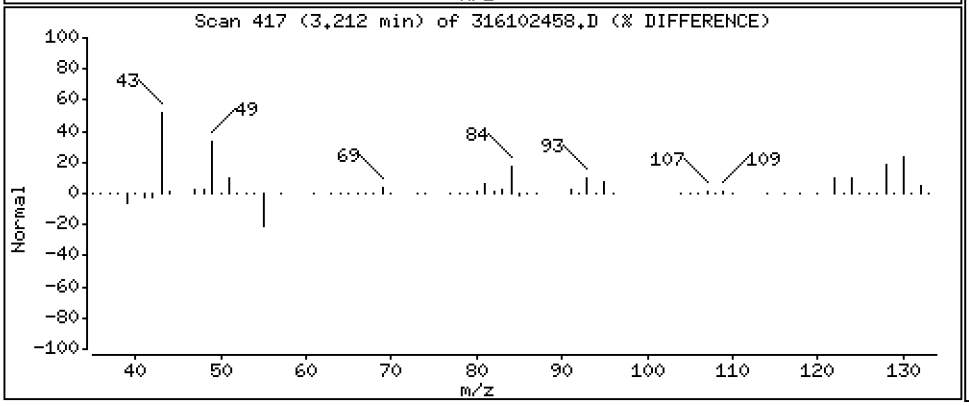
Column phase: DB-VRX Column diameter: 0.25

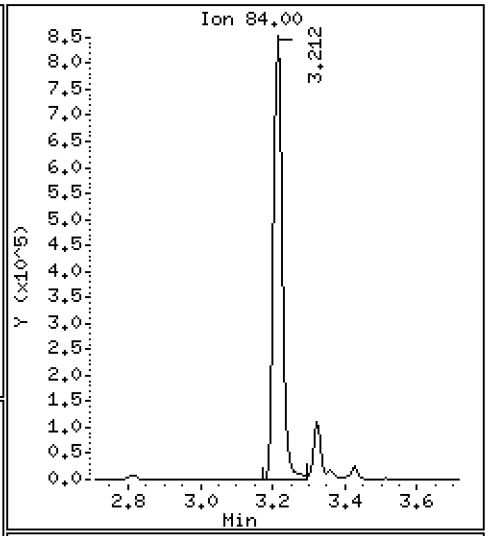
35 Cyclohexane Concentration: 99.6048 ug/L

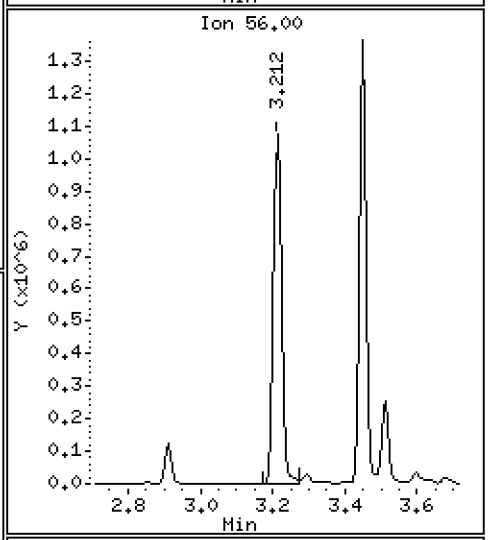


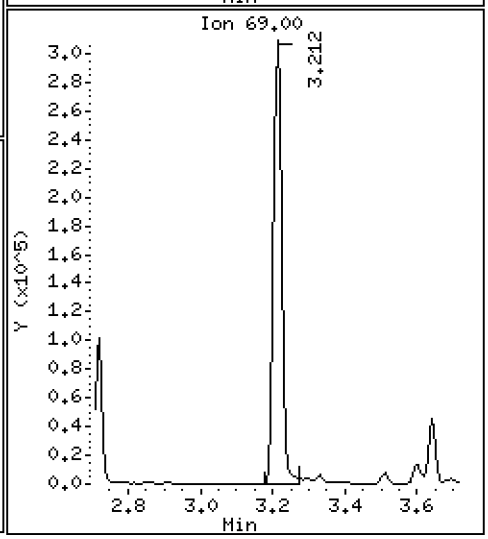












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 44

Date : 25-OCT-2016 01:14

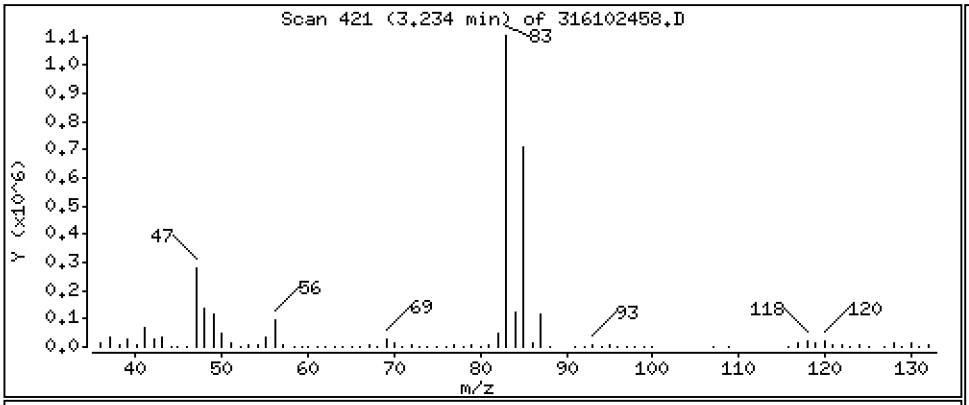
Client ID: Instrument: ms03.i

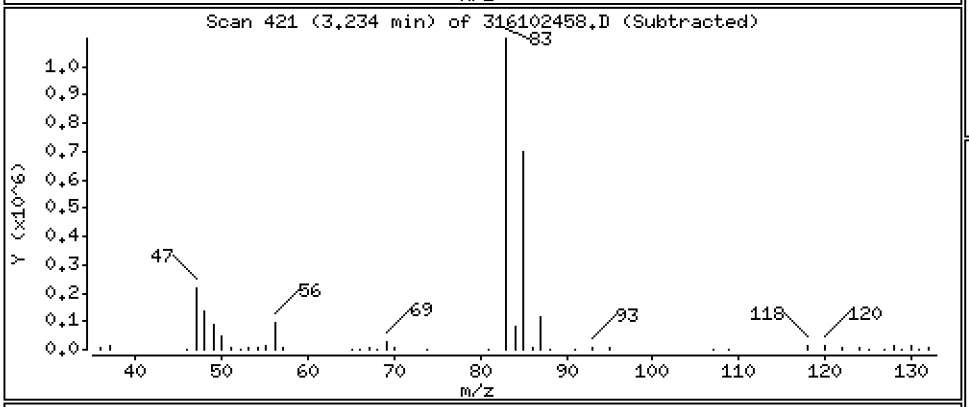
Sample Info: 1238;;1;1;5;;;

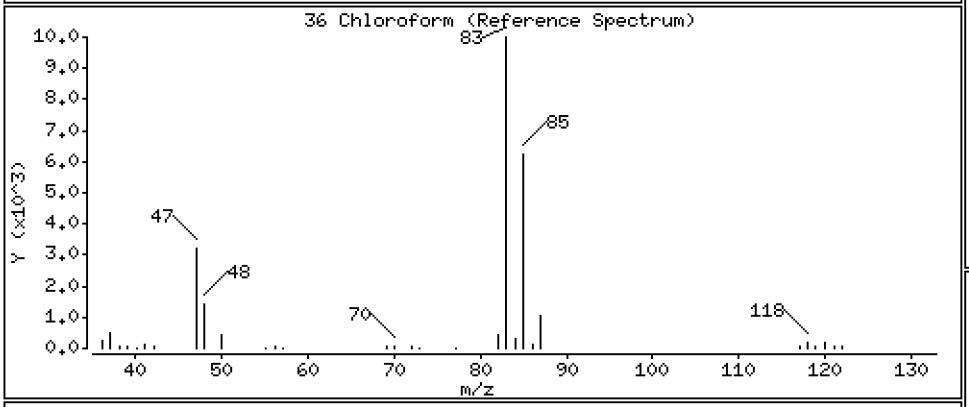
Purge Volume: 5.0 Operator: CJG

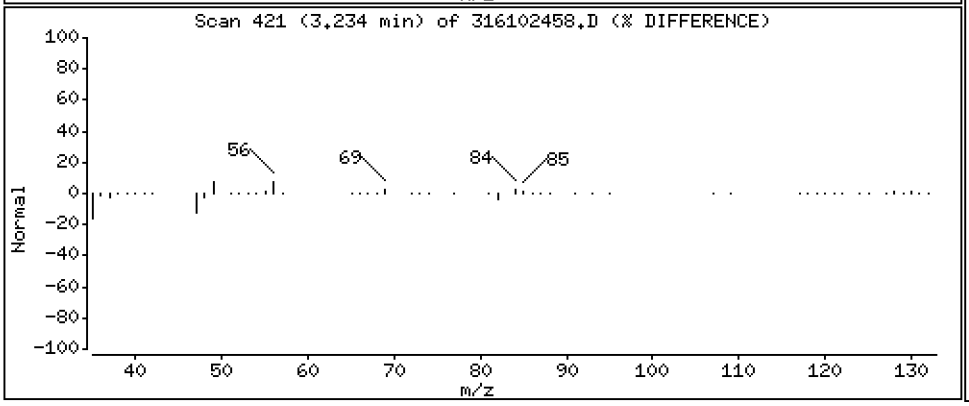
Column phase: DB-VRX Column diameter: 0.25

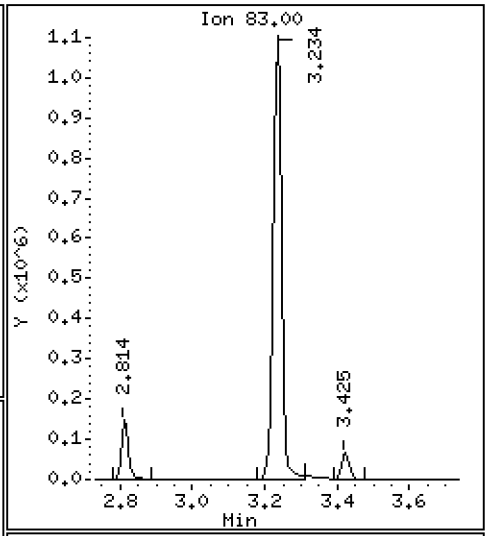
36 Chloroform Concentration: 99.4325 ug/L

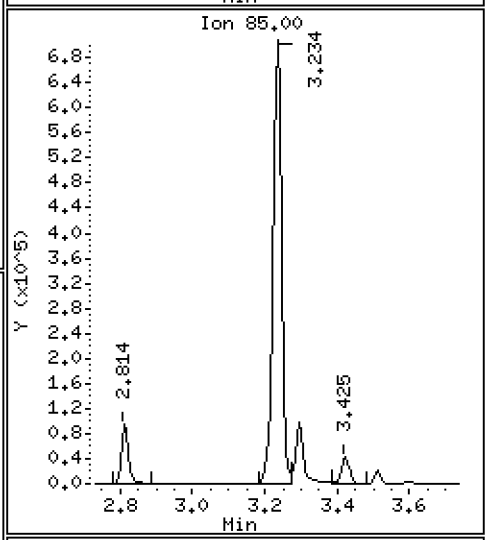


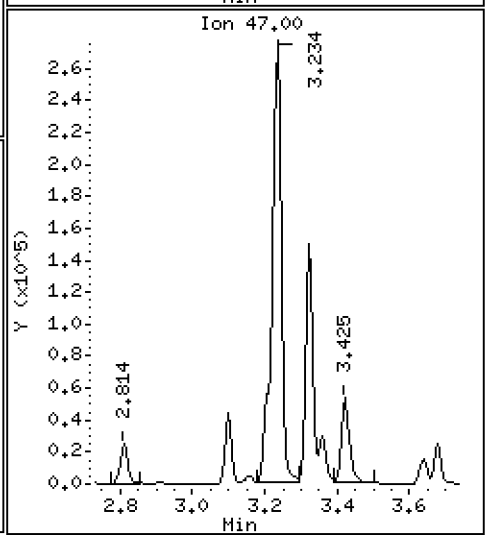












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 45

Date : 25-OCT-2016 01:14

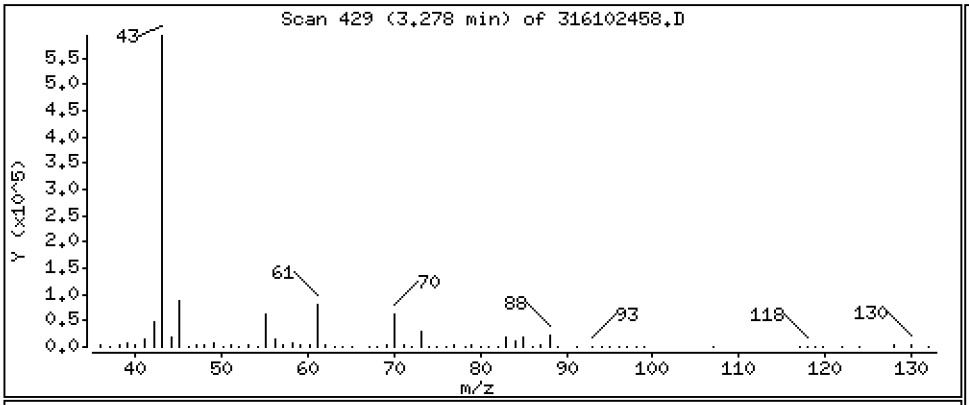
Client ID: Instrument: ms03.i

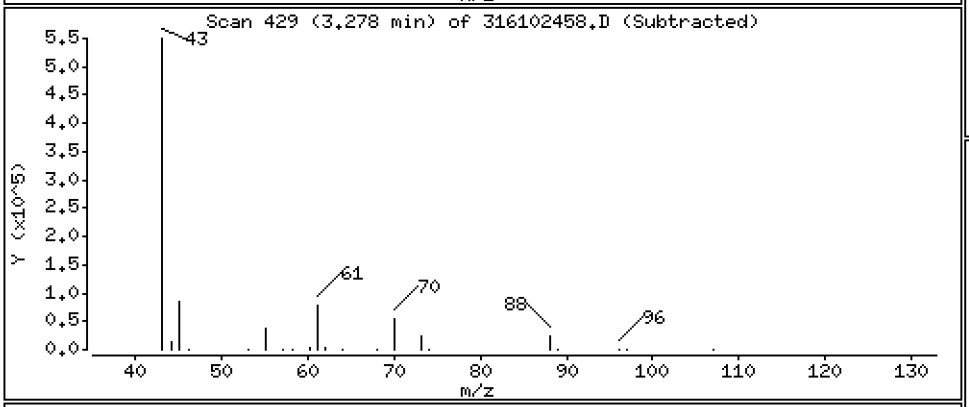
Sample Info: 1238;;1;1;5;;;

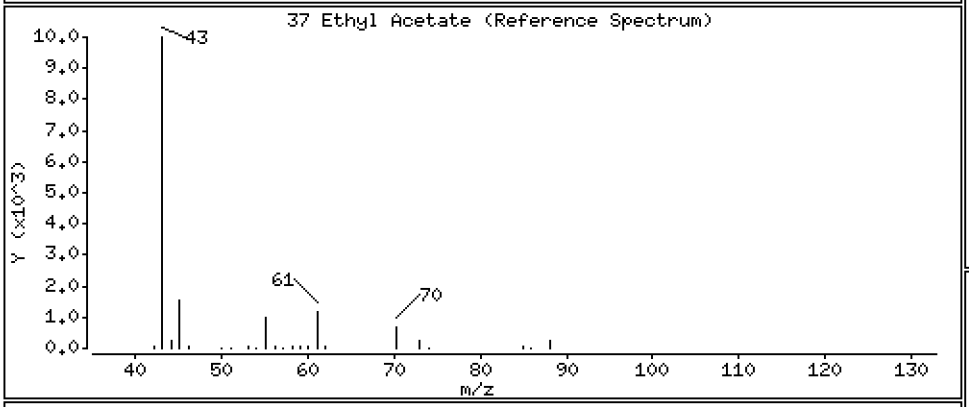
Purge Volume: 5.0 Operator: CJG

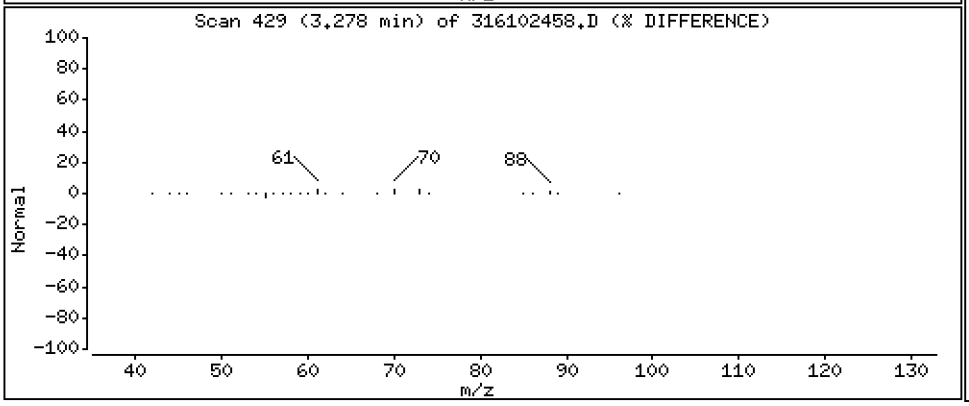
Column phase: DB-VRX Column diameter: 0.25

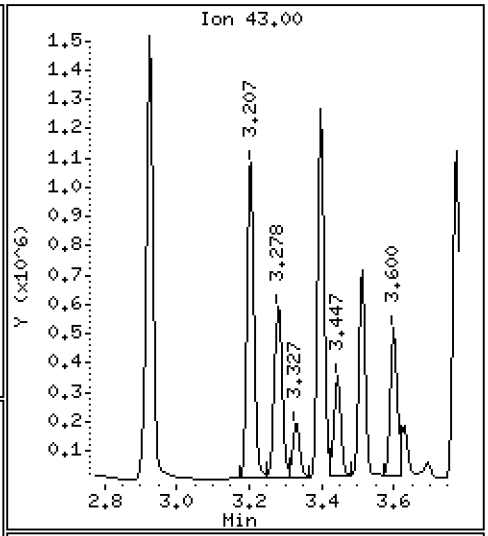
37 Ethyl Acetate Concentration: 99.6902 ug/L

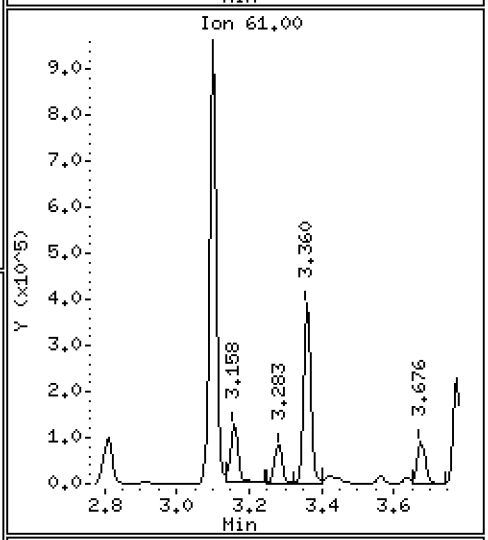


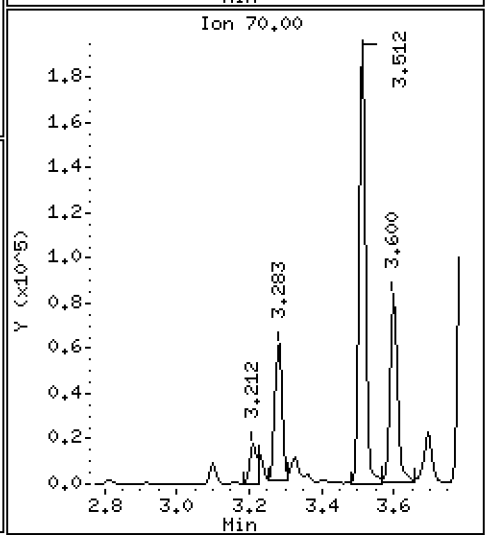












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 46

Date : 25-OCT-2016 01:14

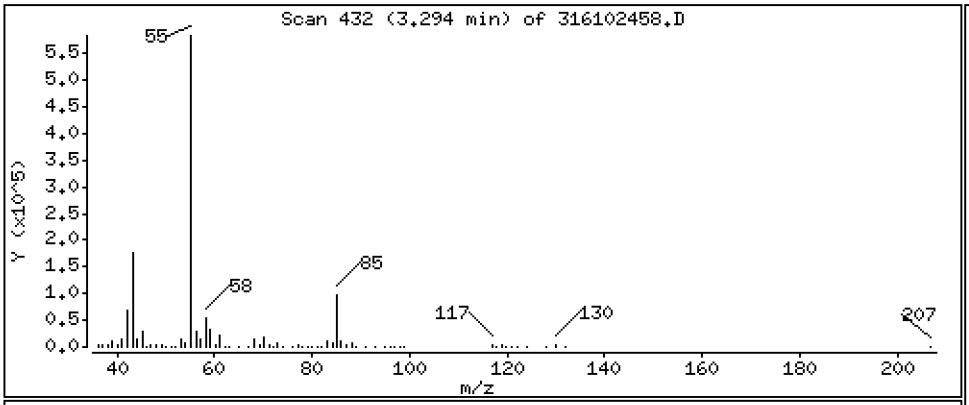
Client ID: Instrument: ms03.i

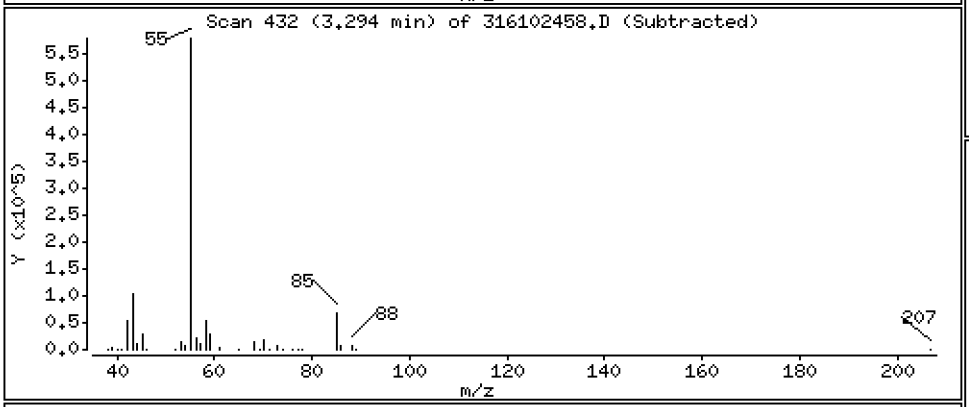
Sample Info: 1238;;1;1;5;;;

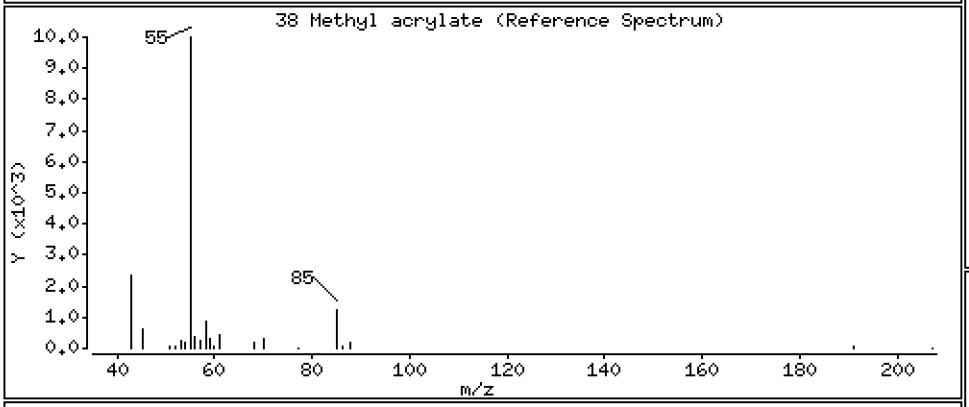
Purge Volume: 5.0 Operator: CJG

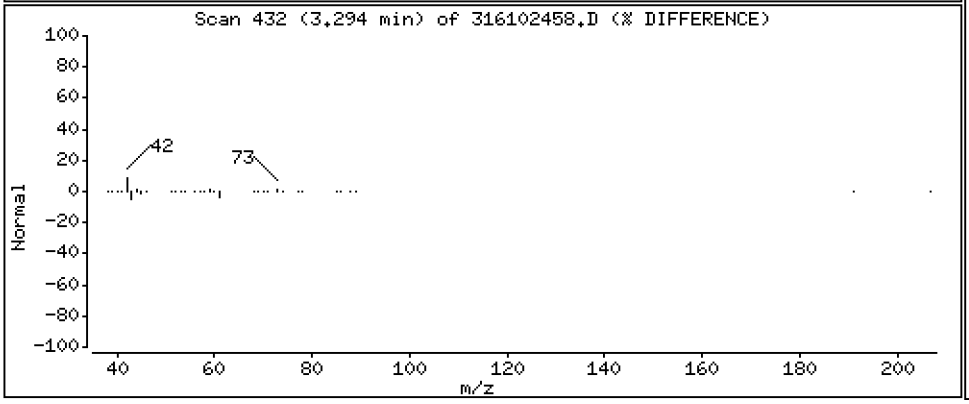
Column phase: DB-VRX Column diameter: 0.25

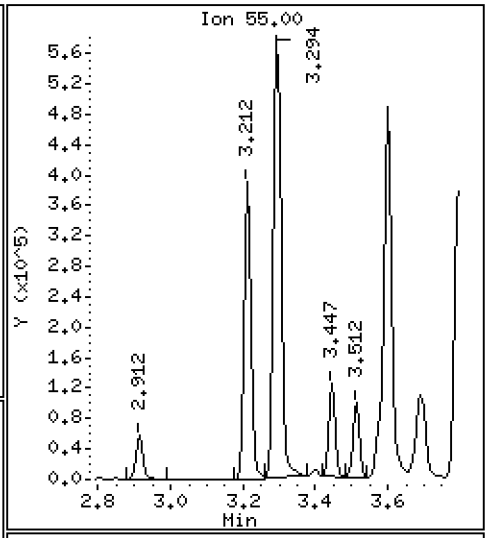
38 Methyl acrylate Concentration: 100.020 ug/L

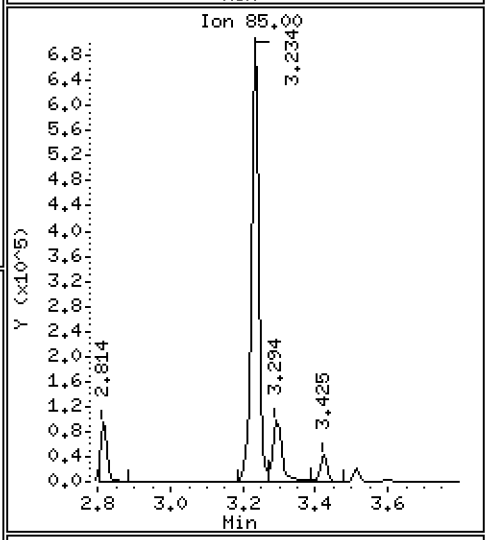


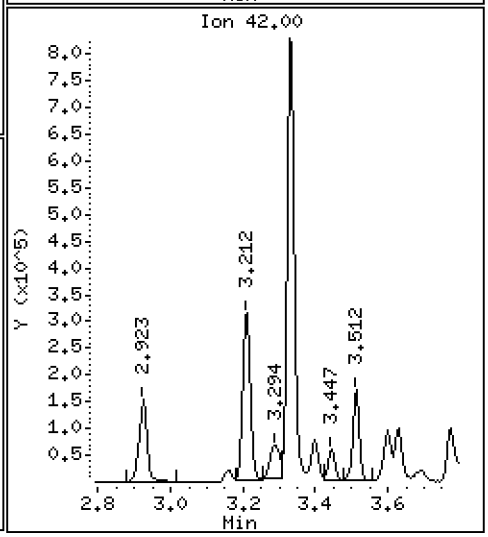












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 47

Date : 25-OCT-2016 01:14

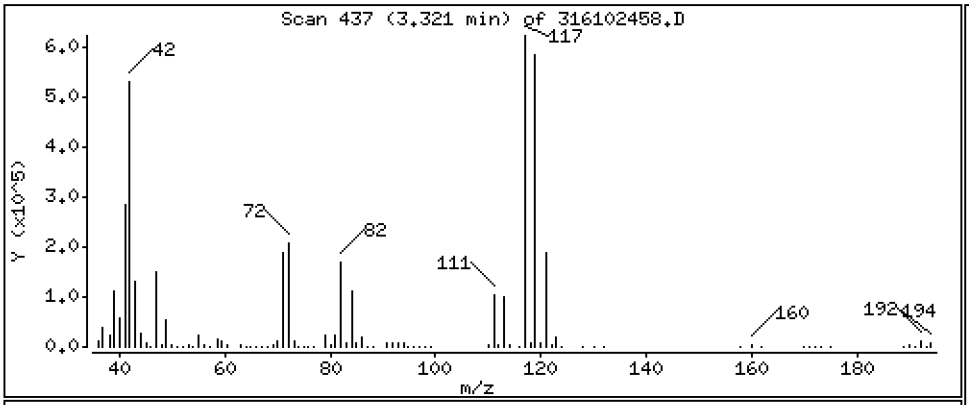
Client ID: Instrument: ms03.i

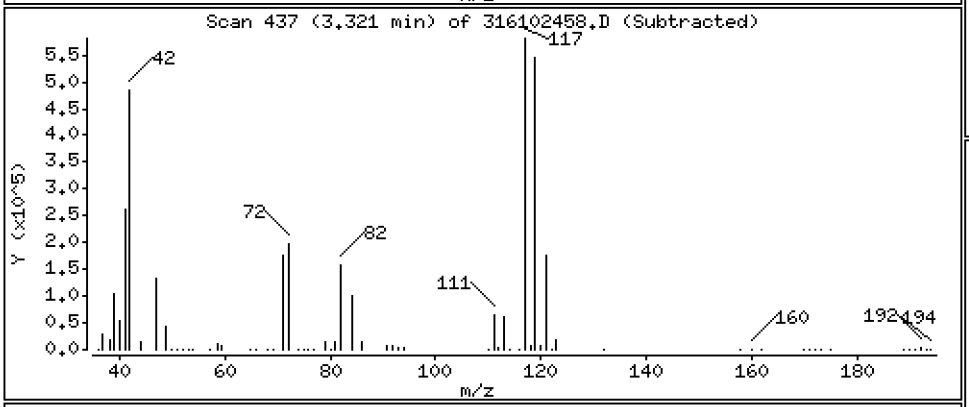
Sample Info: 1238;;1;1;5;;;

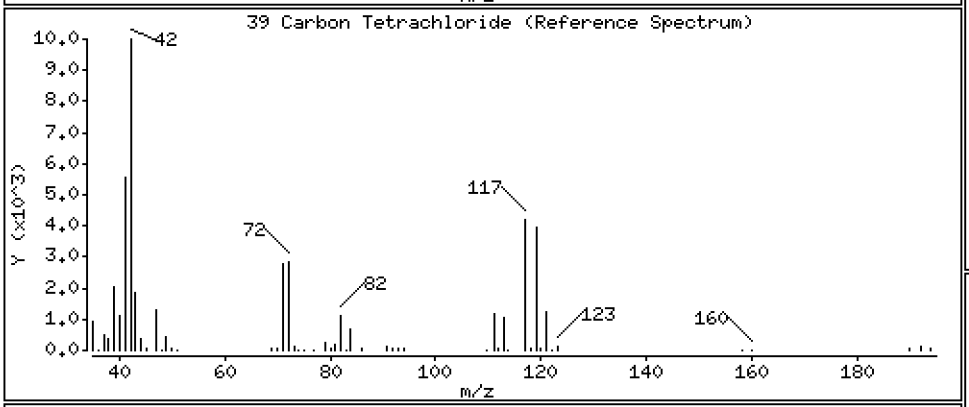
Purge Volume: 5.0 Operator: CJG

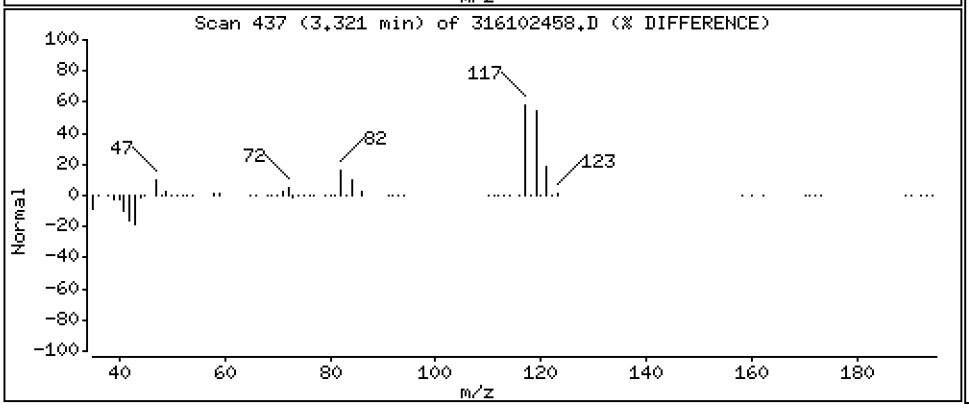
Column phase: DB-VRX Column diameter: 0.25

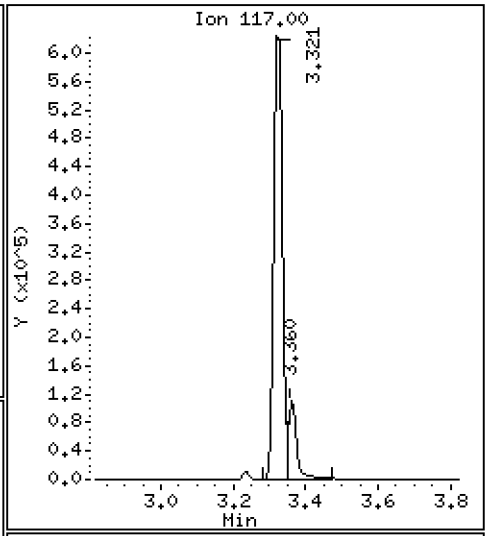
39 Carbon Tetrachloride Concentration: 100.294 ug/L

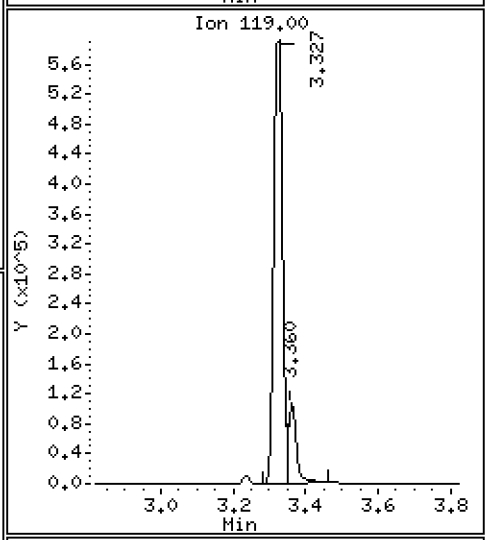


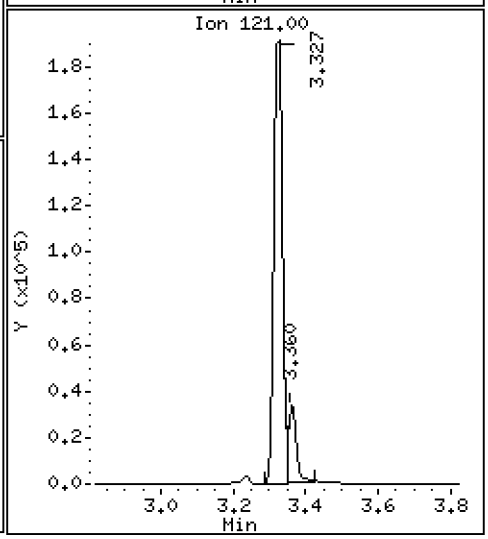












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 48

Date : 25-OCT-2016 01:14

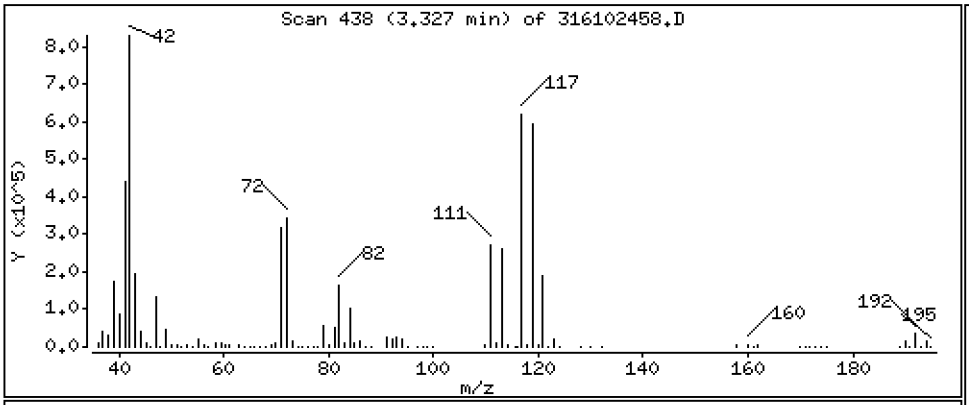
Client ID: Instrument: ms03.i

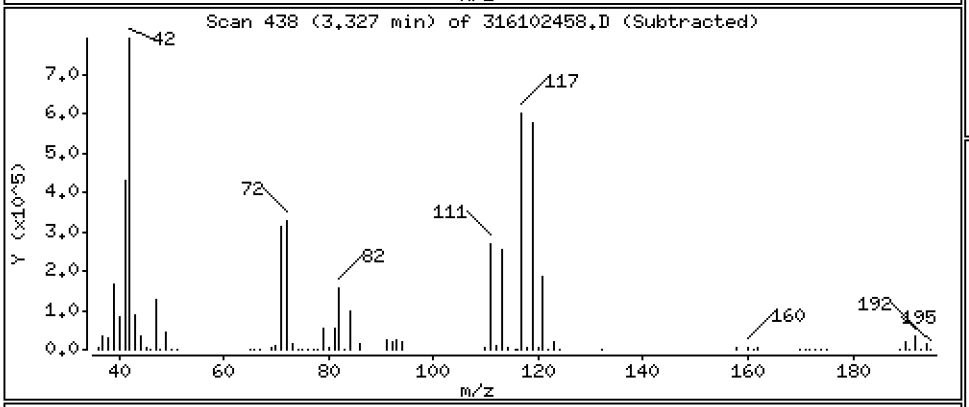
Sample Info: 1238;;1;1;5;;;

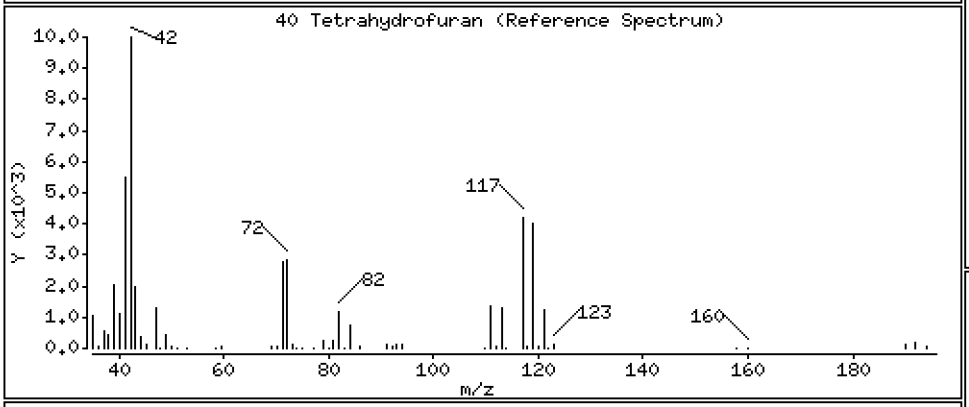
Purge Volume: 5.0 Operator: CJG

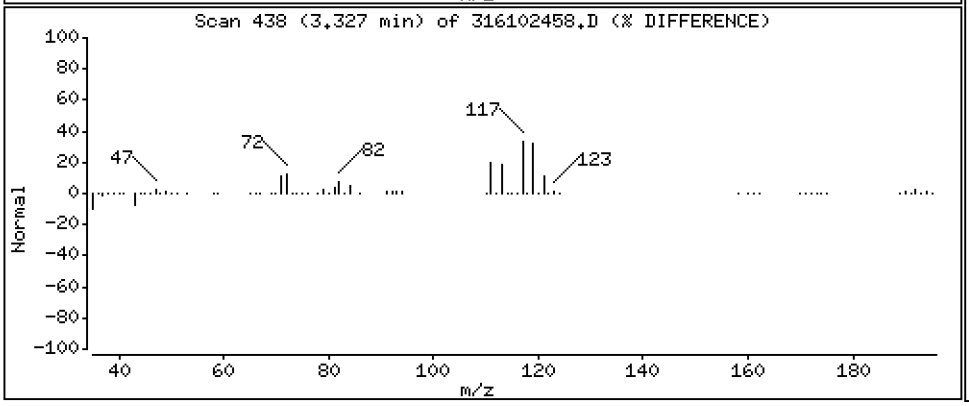
Column phase: DB-VRX Column diameter: 0.25

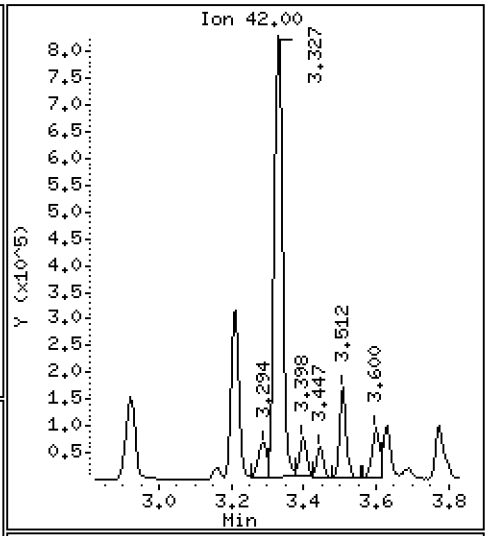
40 Tetrahydrofuran Concentration: 495.562 ug/L

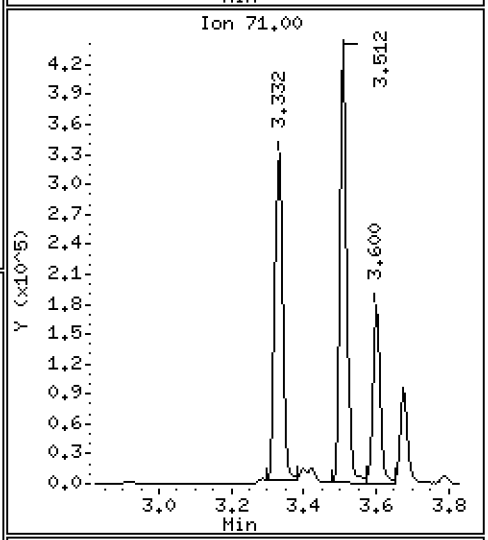


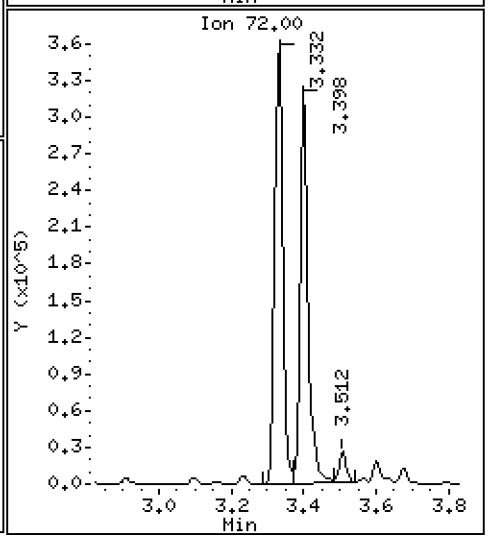












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 49

Date : 25-OCT-2016 01:14

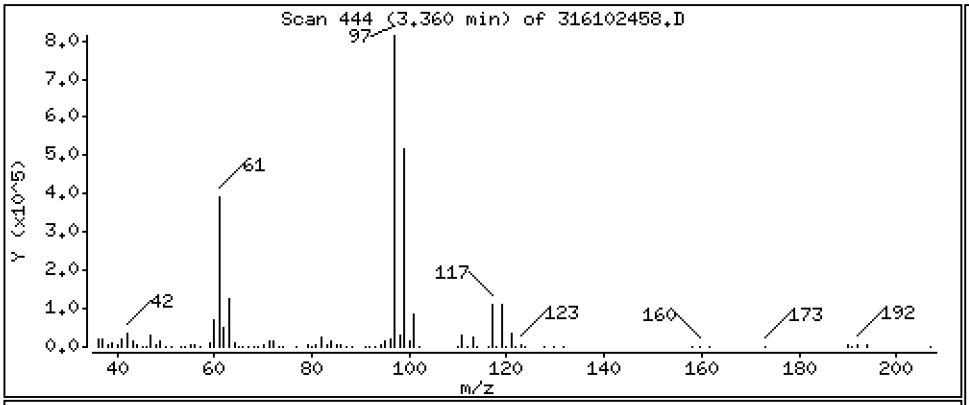
Client ID: Instrument: ms03.i

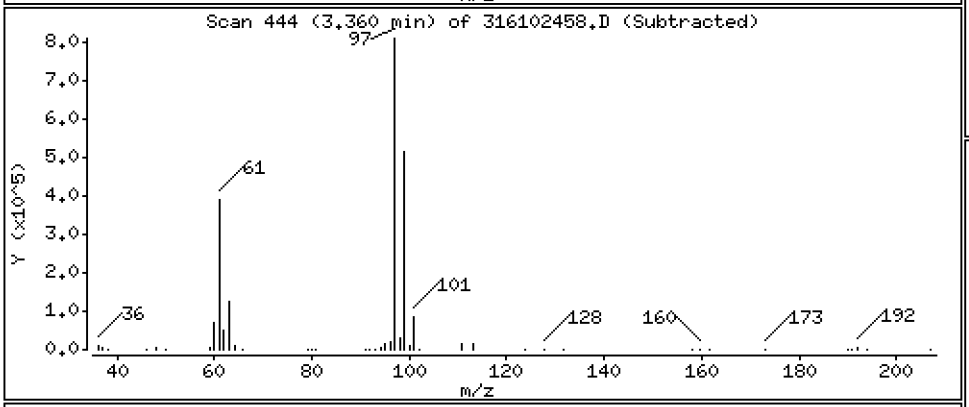
Sample Info: 1238;;1;1;5;;;

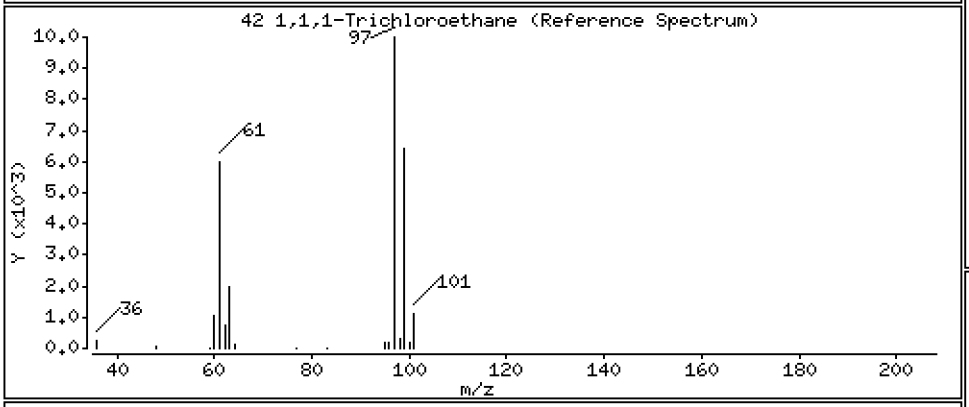
Purge Volume: 5.0 Operator: CJG

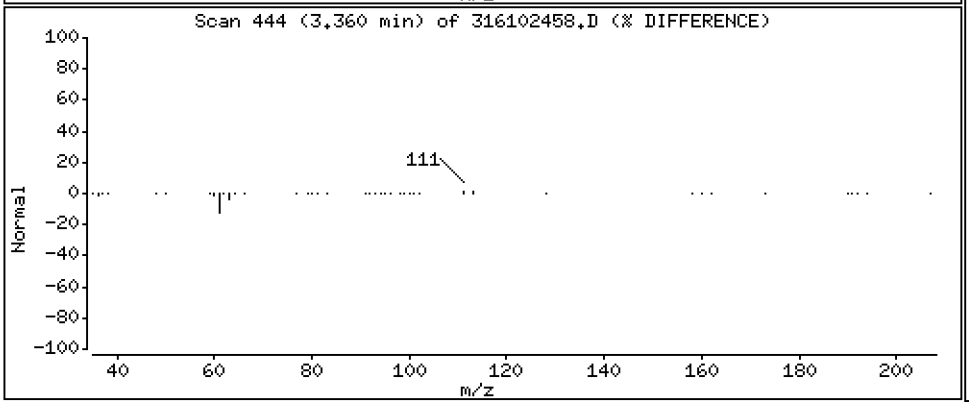
Column phase: DB-VRX Column diameter: 0.25

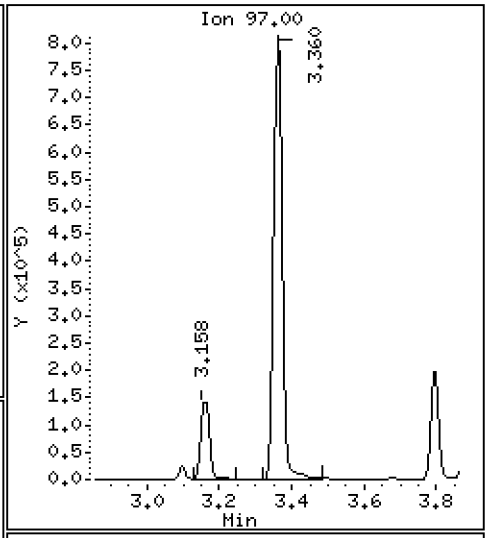
42 1,1,1-Trichloroethane Concentration: 100.874 ug/L

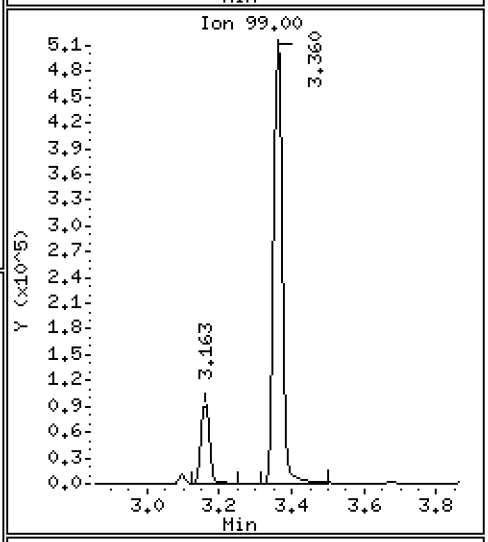


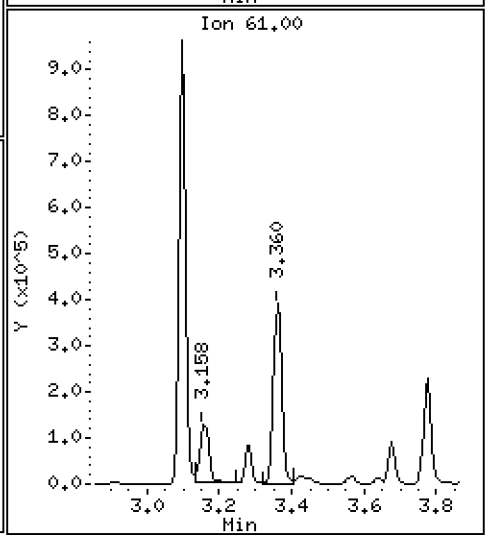












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 50

Date : 25-OCT-2016 01:14

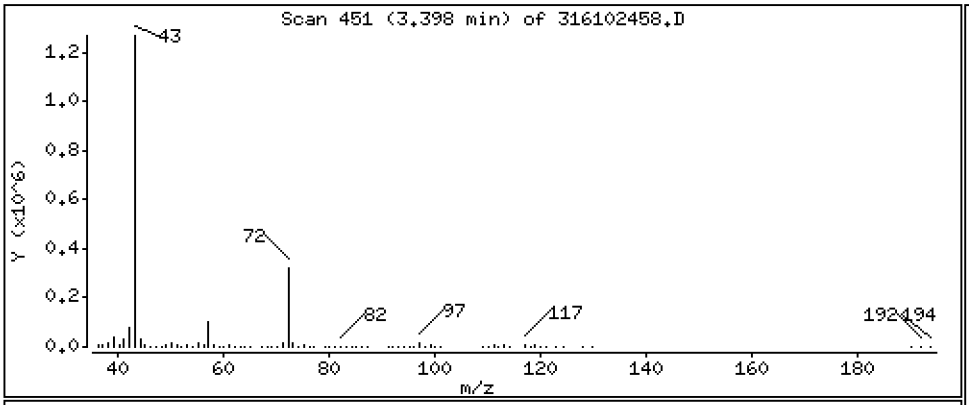
Client ID: Instrument: ms03.i

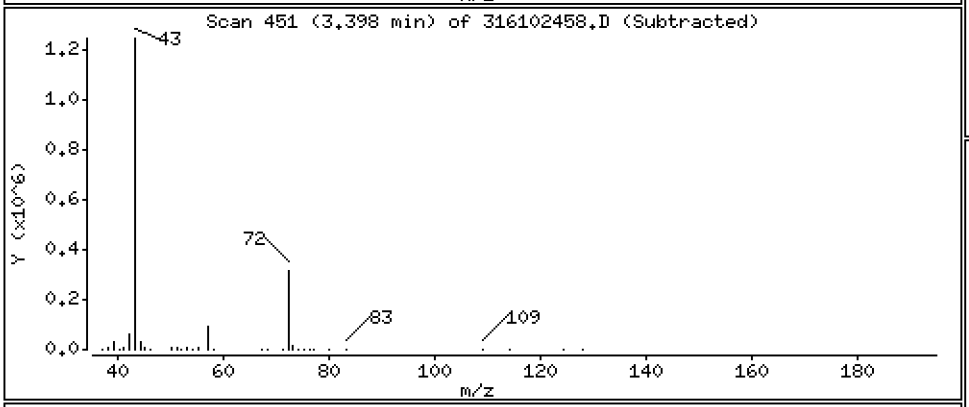
Sample Info: 1238;;1;1;5;;;

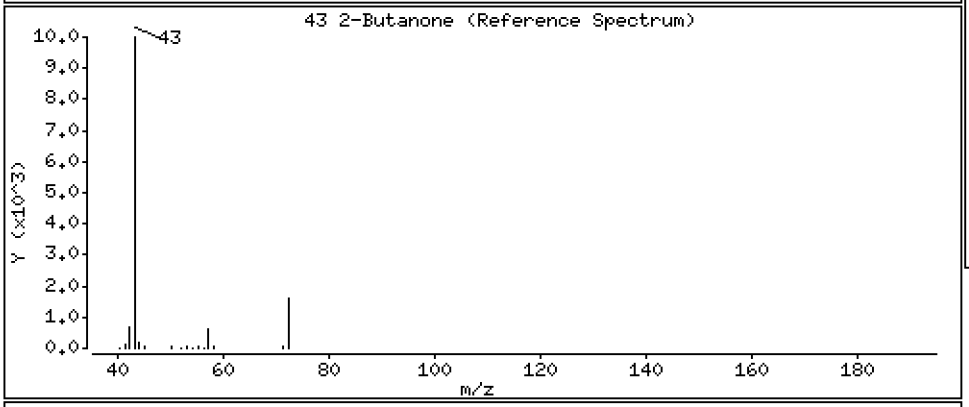
Purge Volume: 5.0 Operator: CJG

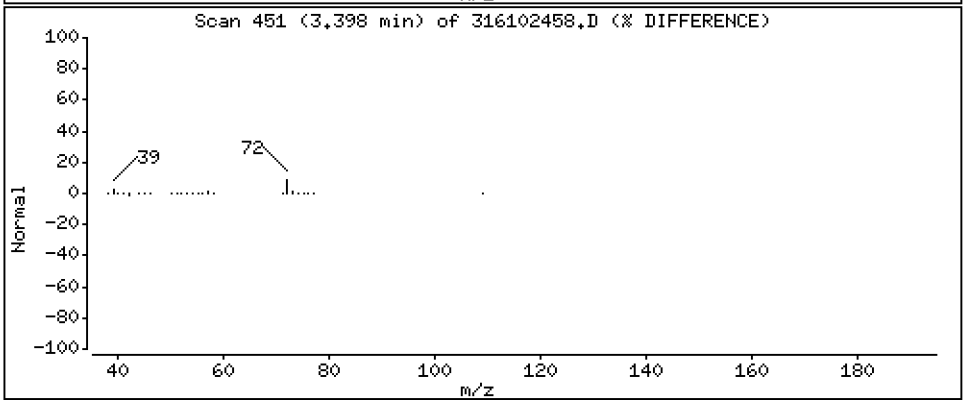
Column phase: DB-VRX Column diameter: 0.25

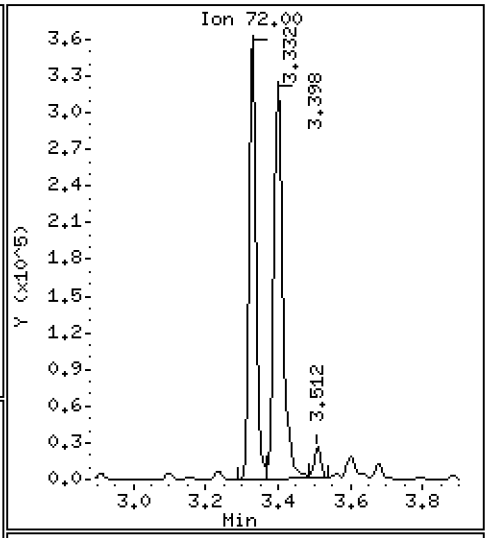
43 2-Butanone Concentration: 495.926 ug/L

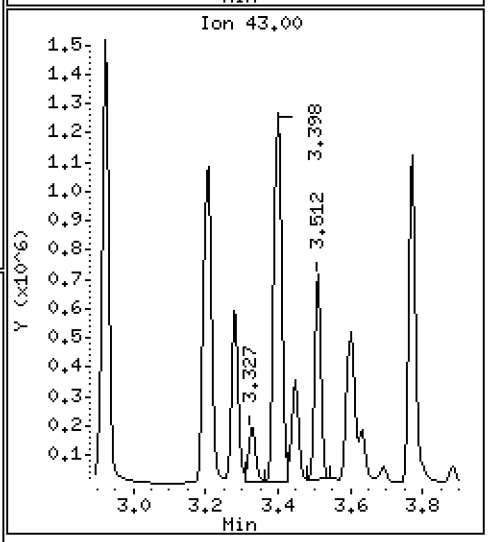












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 51

Date : 25-OCT-2016 01:14

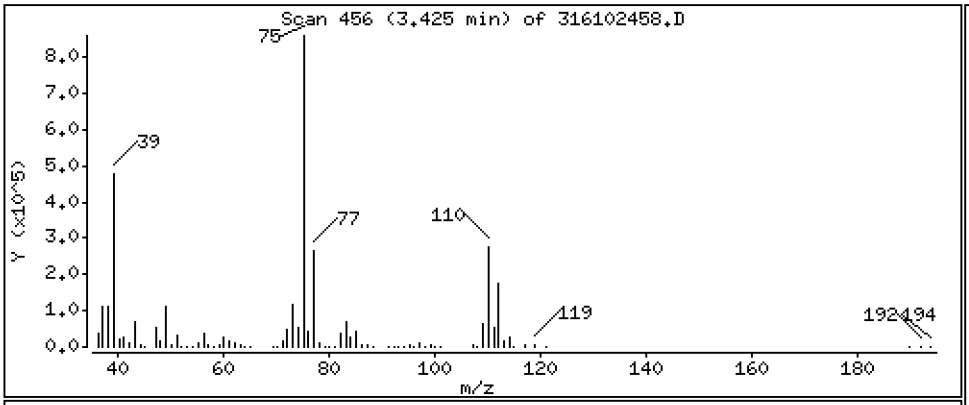
Client ID: Instrument: ms03.i

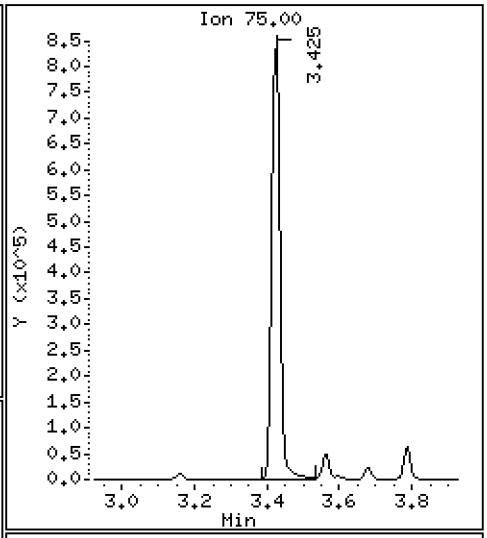
Sample Info: 1238;;1;1;5;;;

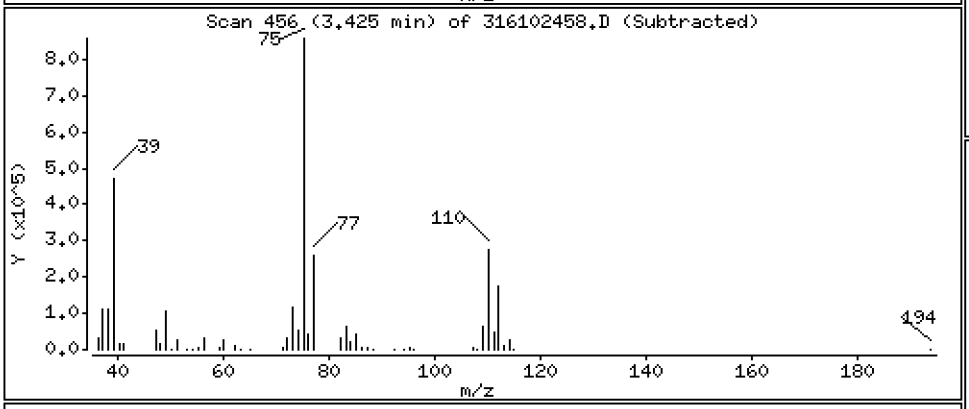
Purge Volume: 5.0 Operator: CJG

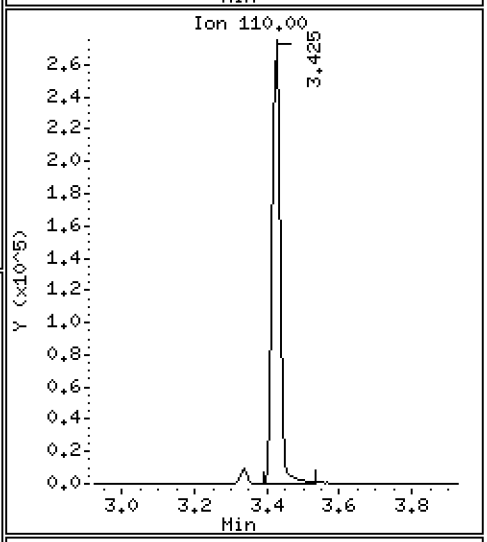
Column phase: DB-VRX Column diameter: 0.25

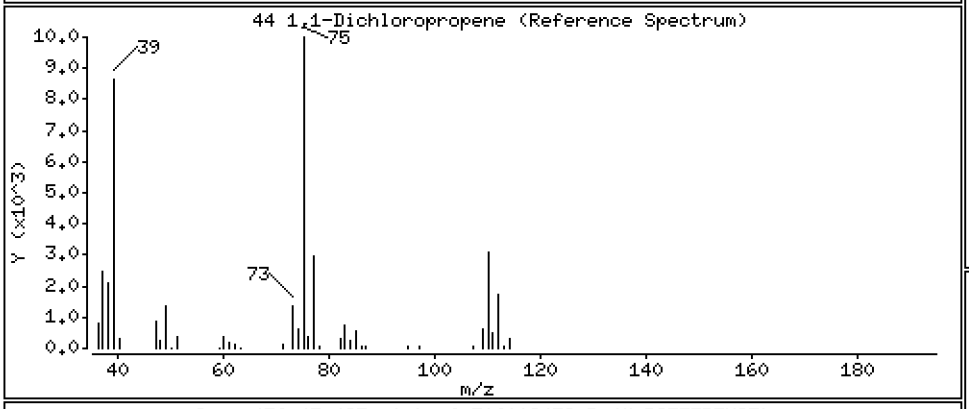
44 1,1-Dichloropropene Concentration: 99.5864 ug/L

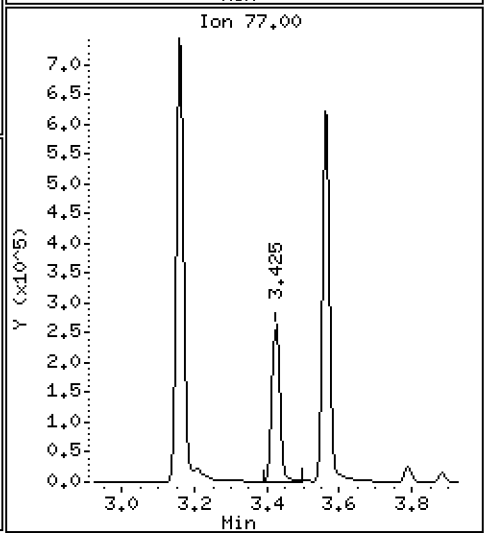


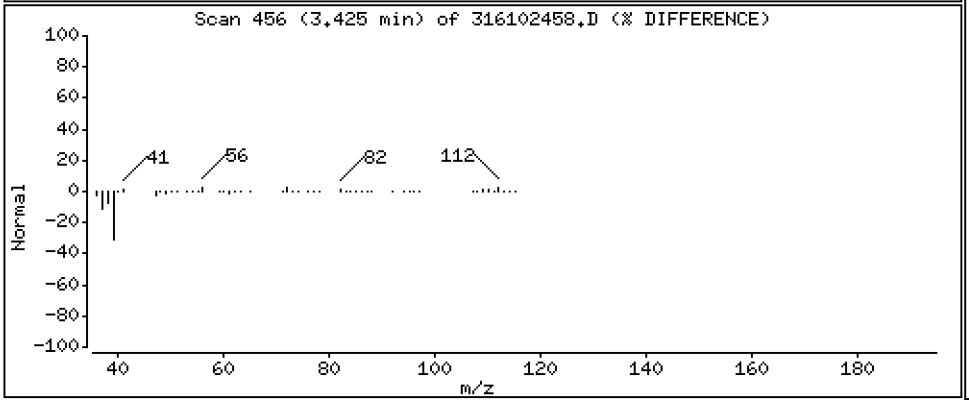












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 52

Date : 25-OCT-2016 01:14

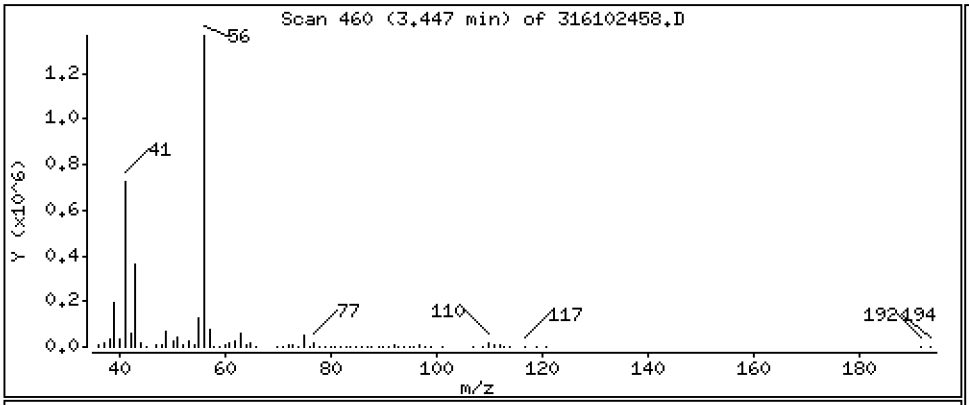
Client ID: Instrument: ms03.i

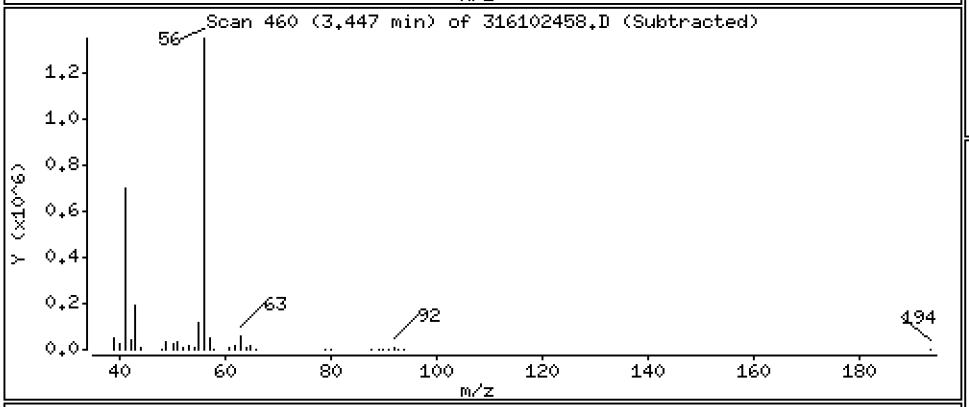
Sample Info: 1238;;1;1;5;;;

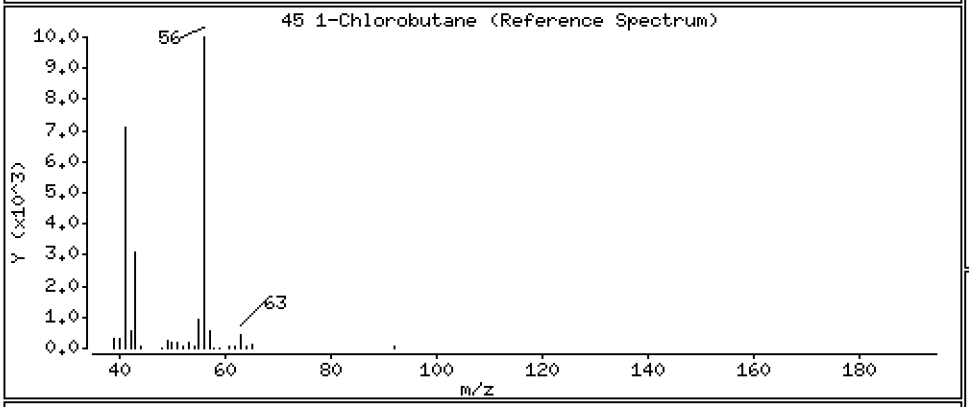
Purge Volume: 5.0 Operator: CJG

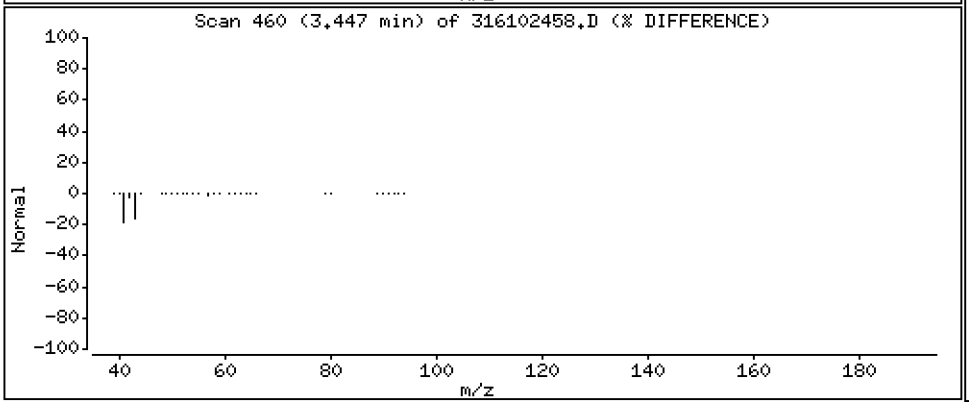
Column phase: DB-VRX Column diameter: 0.25

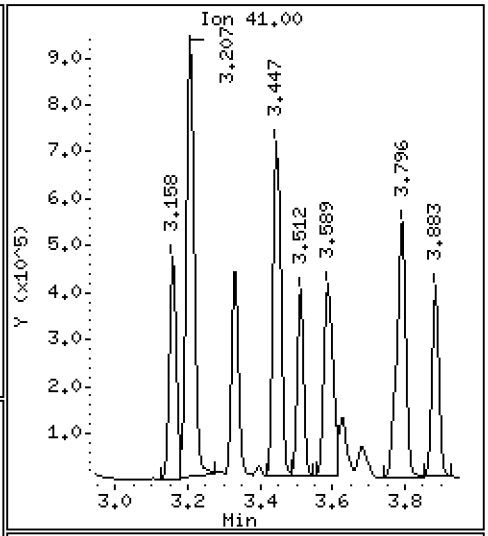
45 1-Chlorobutane Concentration: 99.4689 ug/L

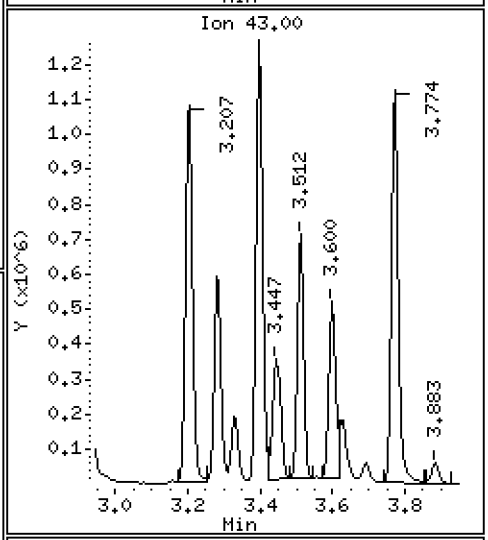


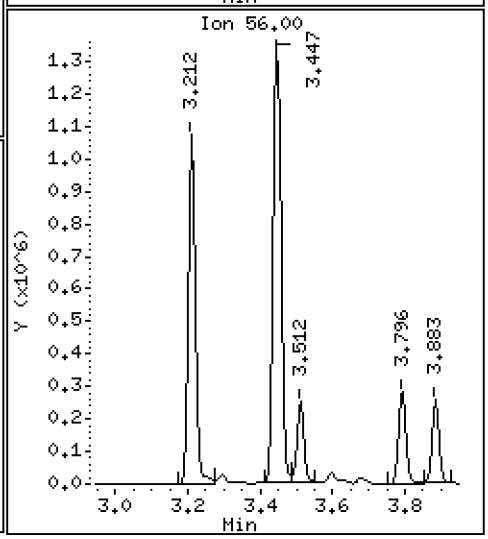












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 53

Date : 25-OCT-2016 01:14

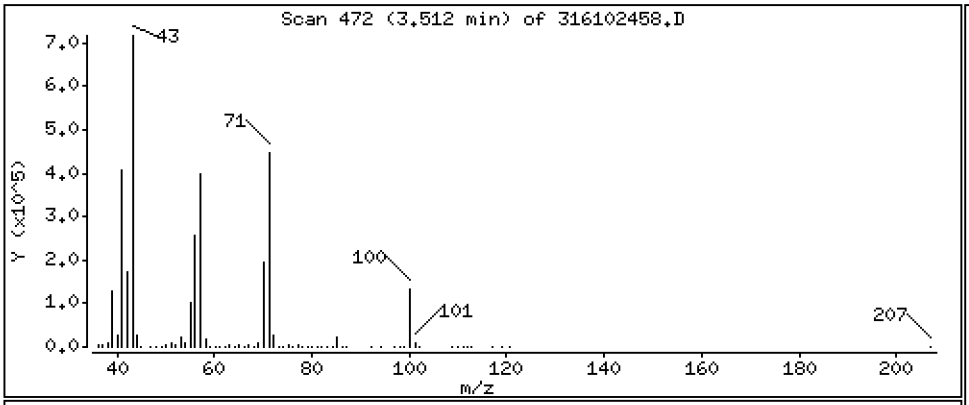
Client ID: Instrument: ms03.i

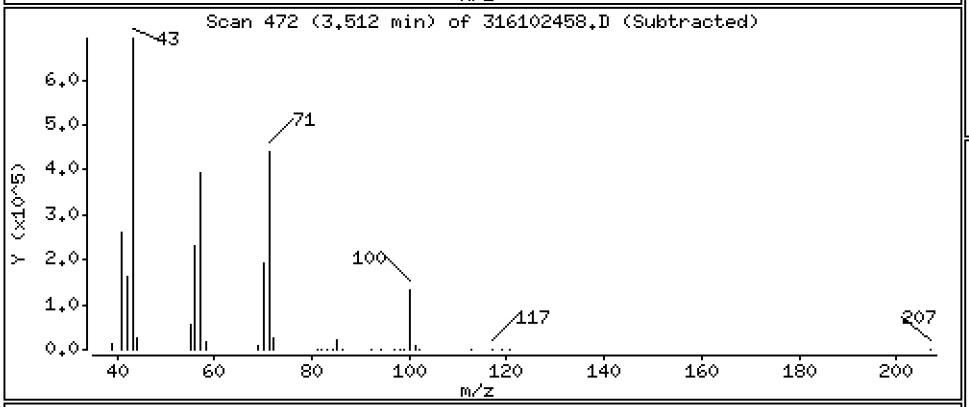
Sample Info: 1238;;1;1;5;;;

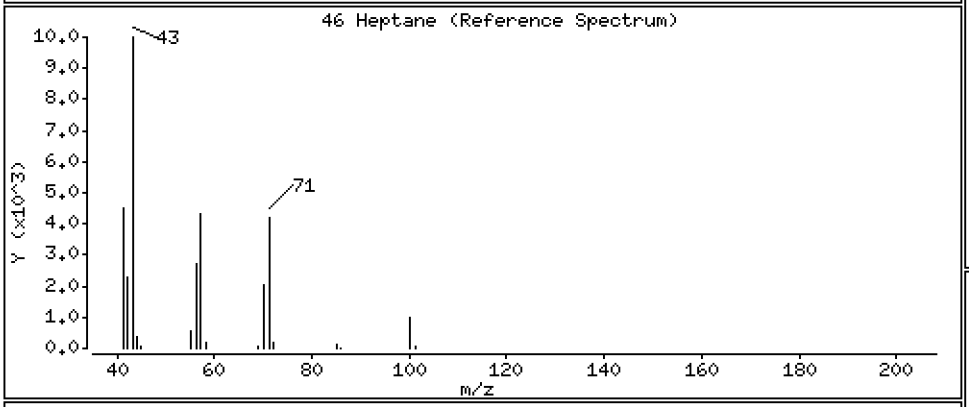
Purge Volume: 5.0 Operator: CJG

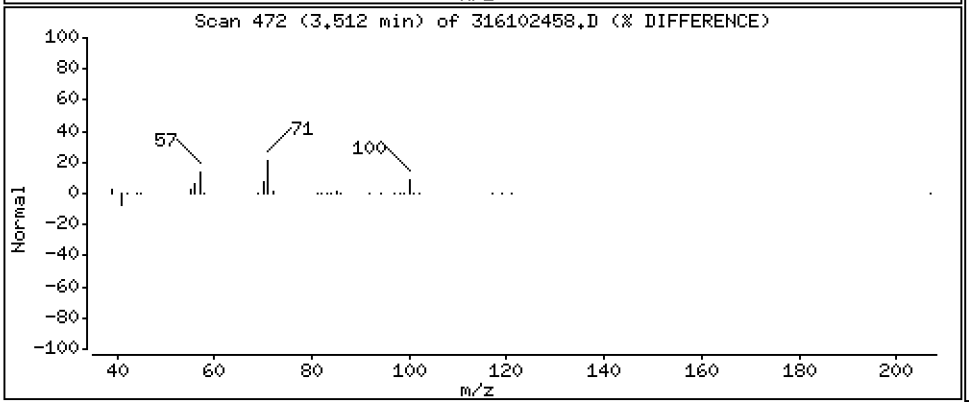
Column phase: DB-VRX Column diameter: 0.25

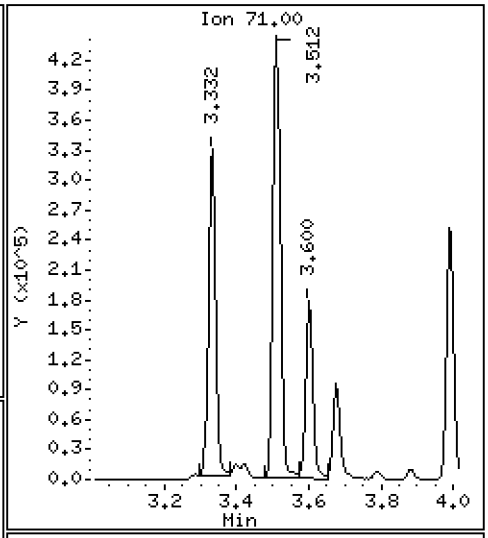
46 Heptane Concentration: 101.365 ug/L

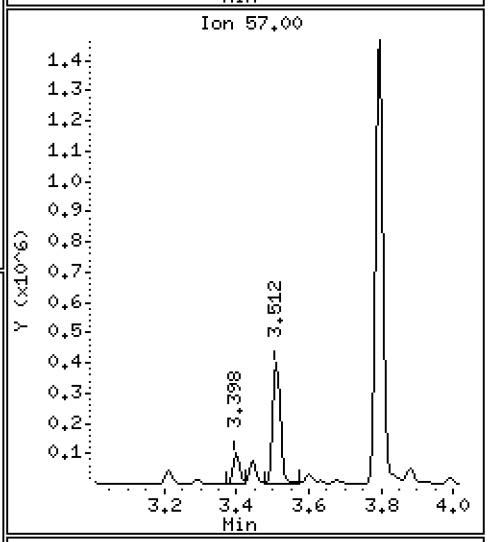


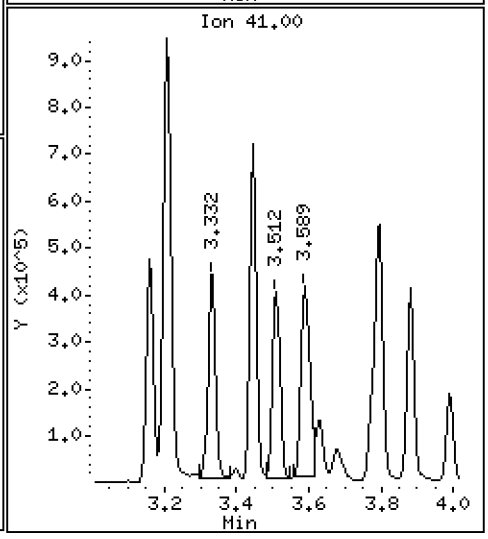












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 54

Date : 25-OCT-2016 01:14

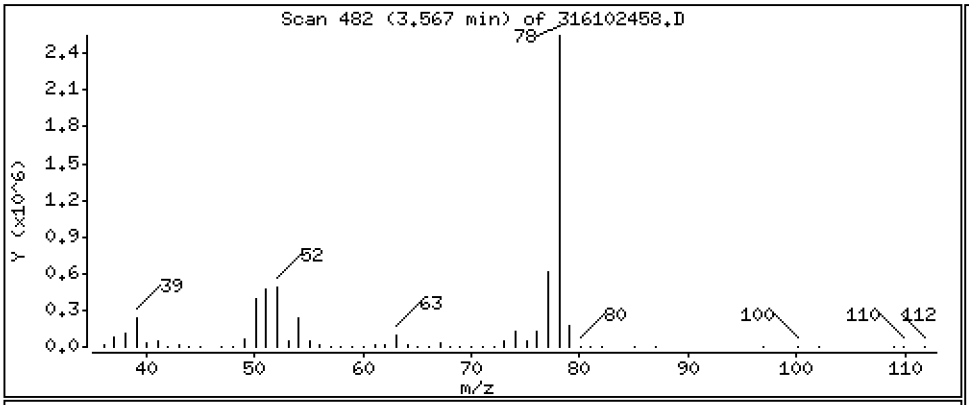
Client ID: Instrument: ms03.i

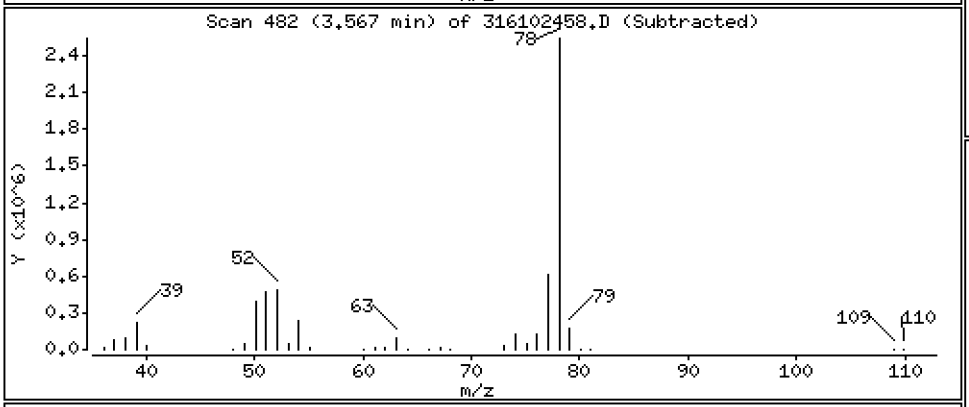
Sample Info: 1238;;1;1;5;;;

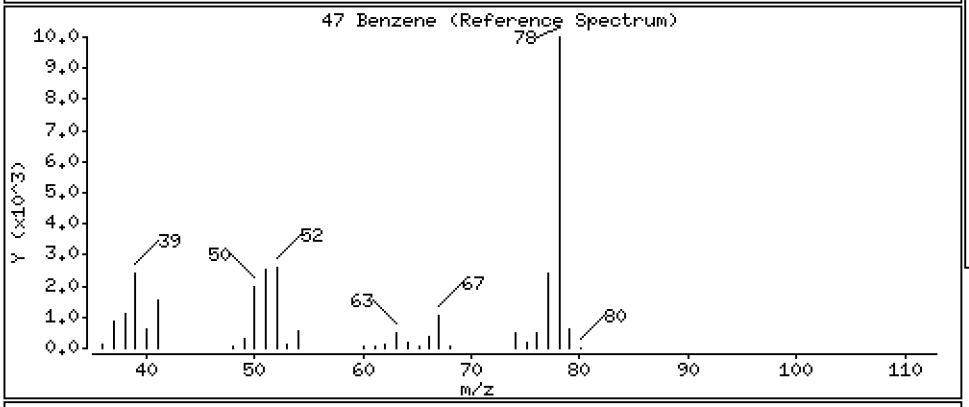
Purge Volume: 5.0 Operator: CJG

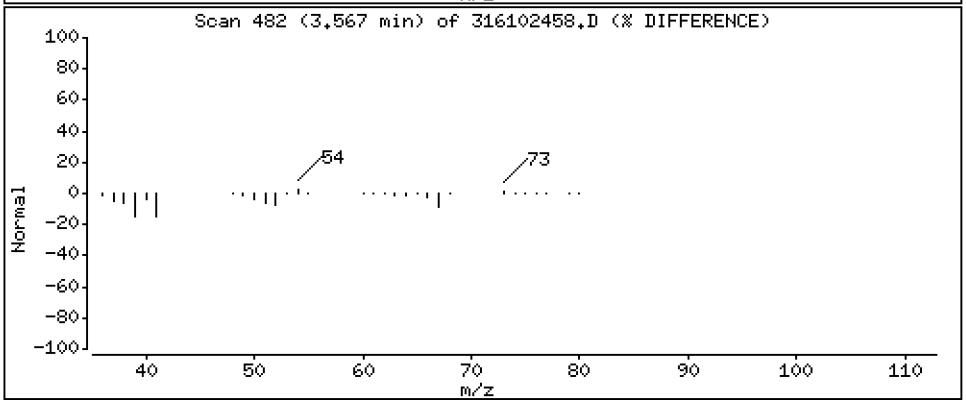
Column phase: DB-VRX Column diameter: 0.25

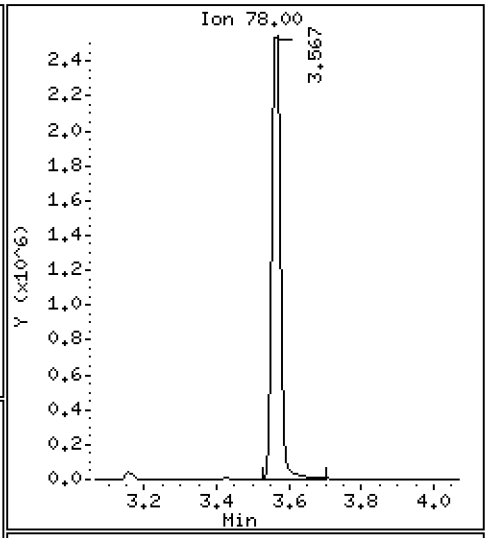
47 Benzene Concentration: 99.6693 ug/L

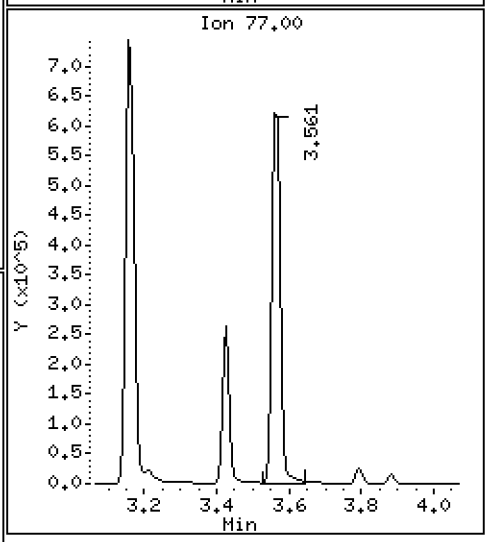












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 55

Date : 25-OCT-2016 01:14

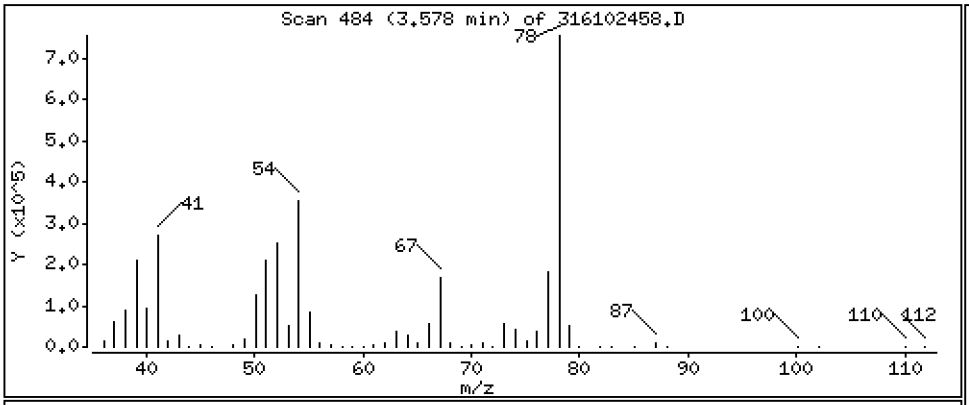
Client ID: Instrument: ms03.i

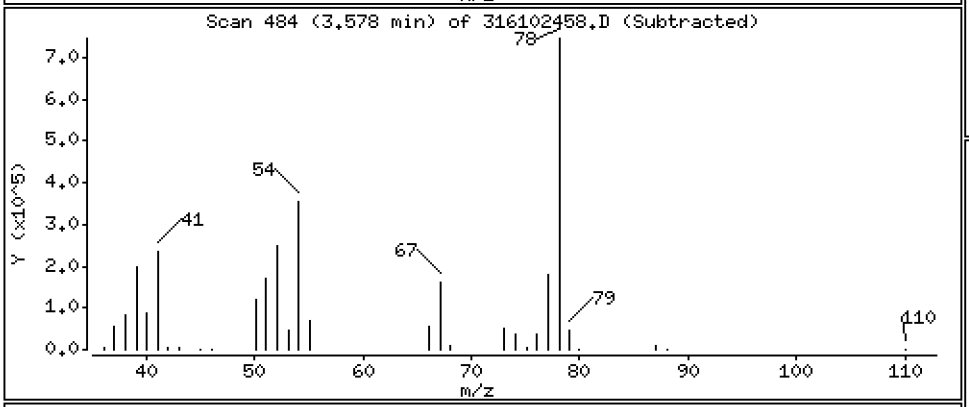
Sample Info: 1238;;1;1;5;;;

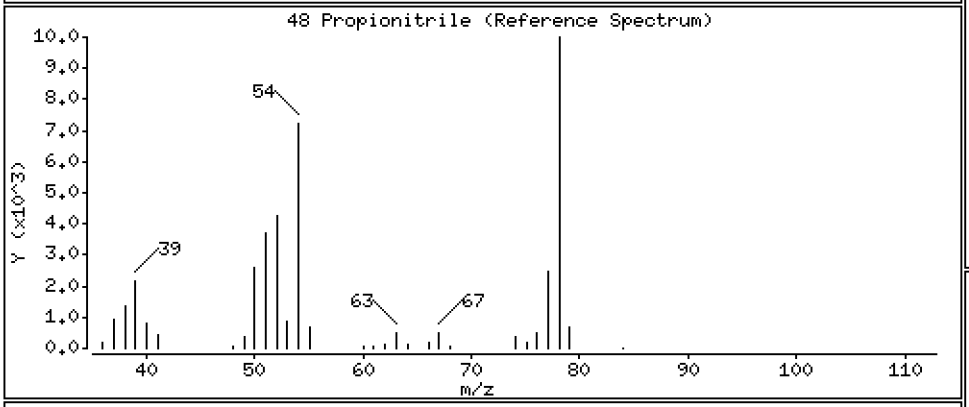
Purge Volume: 5.0 Operator: CJG

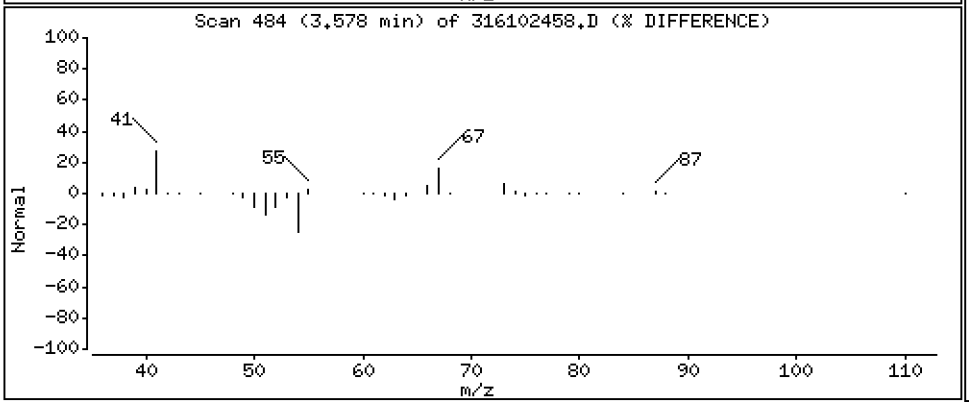
Column phase: DB-VRX Column diameter: 0.25

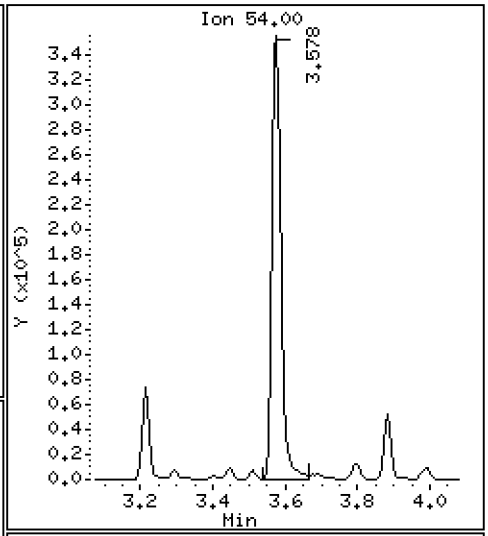
48 Propionitrile Concentration: 494.292 ug/L

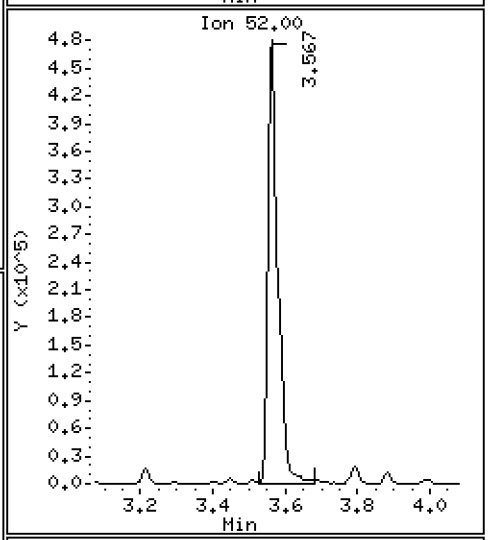


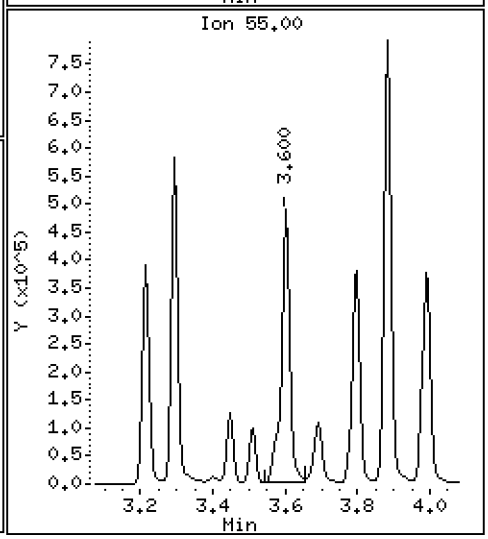












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 56

Date : 25-OCT-2016 01:14

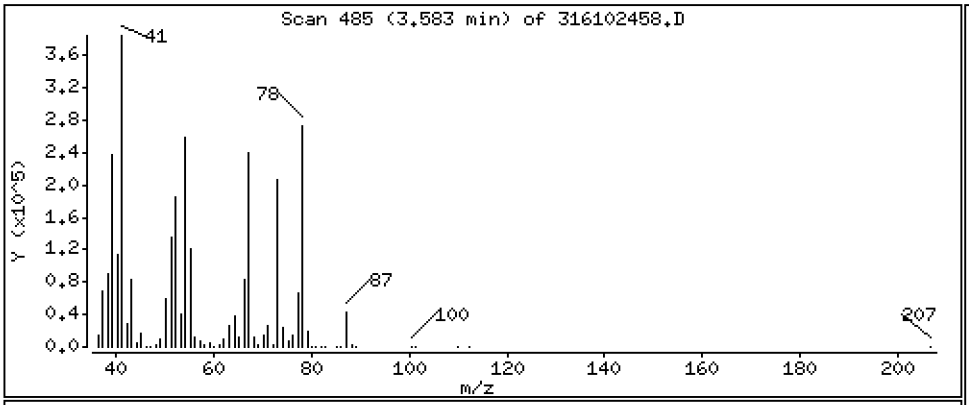
Client ID: Instrument: ms03.i

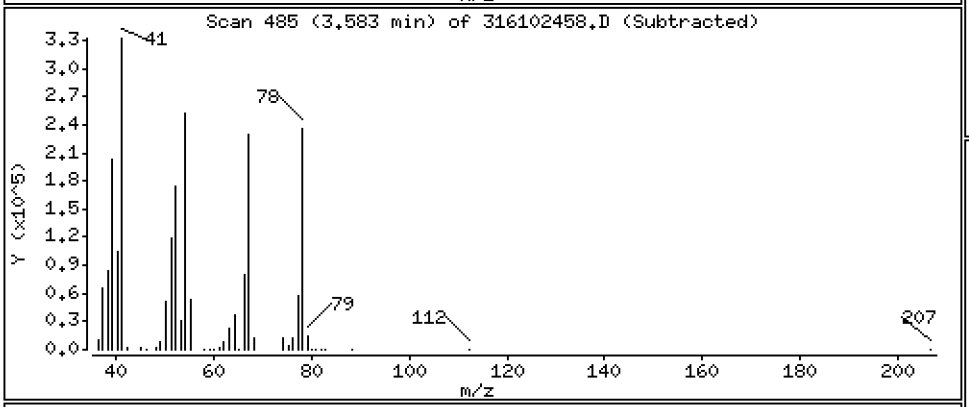
Sample Info: 1238;;1;1;5;;;

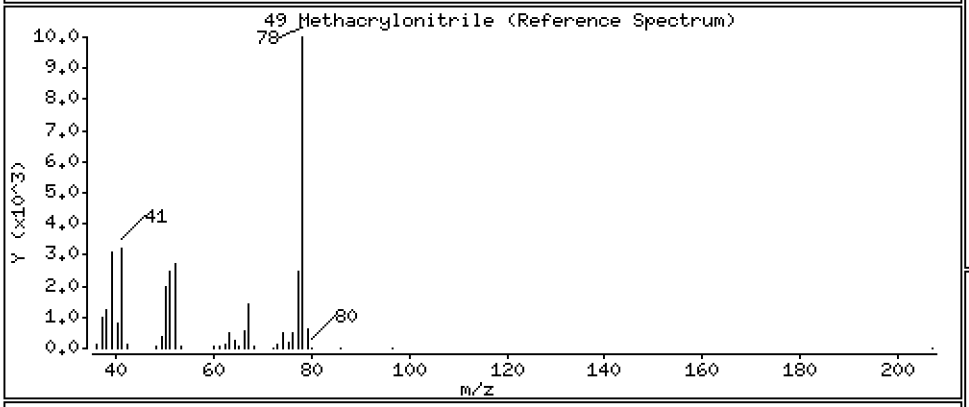
Purge Volume: 5.0 Operator: CJG

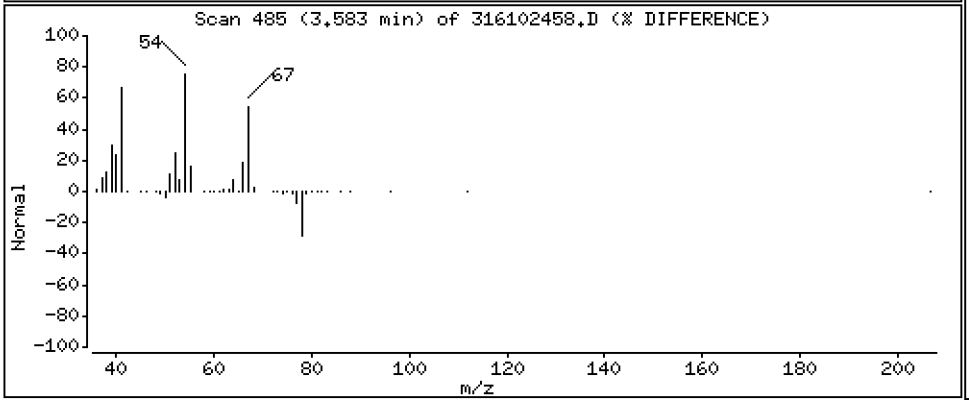
Column phase: DB-VRX Column diameter: 0.25

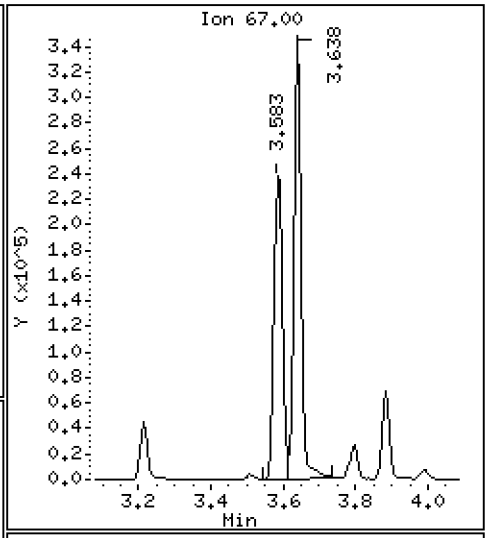
49 Methacrylonitrile Concentration: 98.9728 ug/L

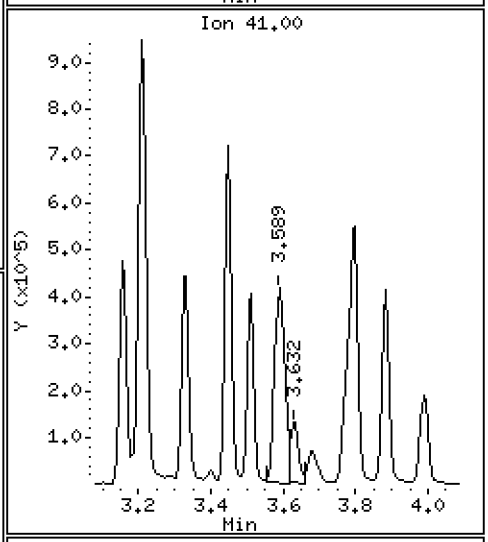


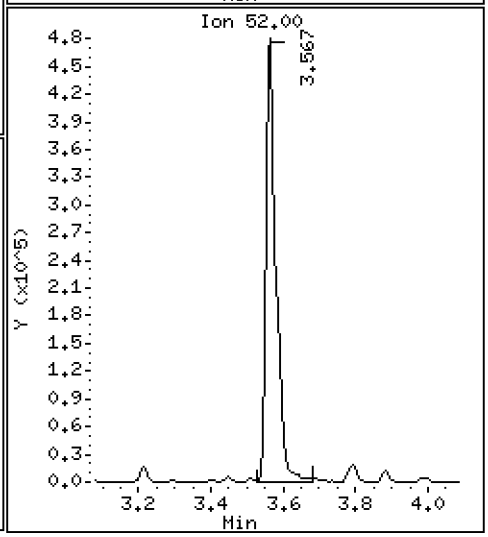












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 57

Date : 25-OCT-2016 01:14

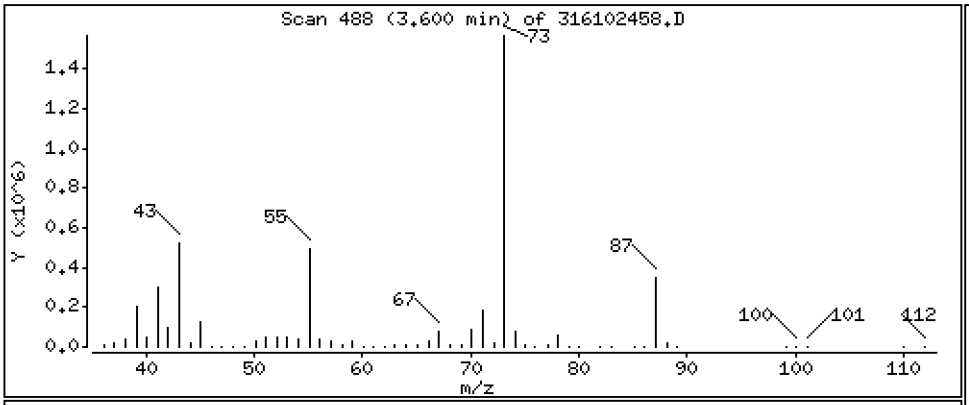
Client ID: Instrument: ms03.i

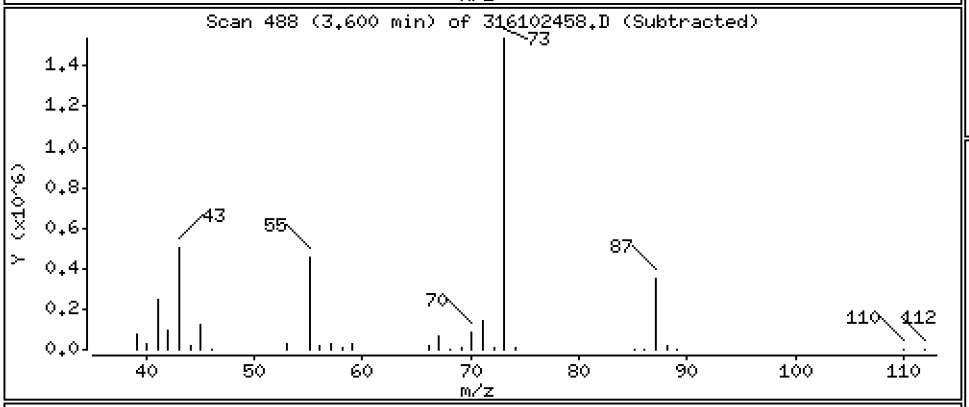
Sample Info: 1238;;1;1;5;;;

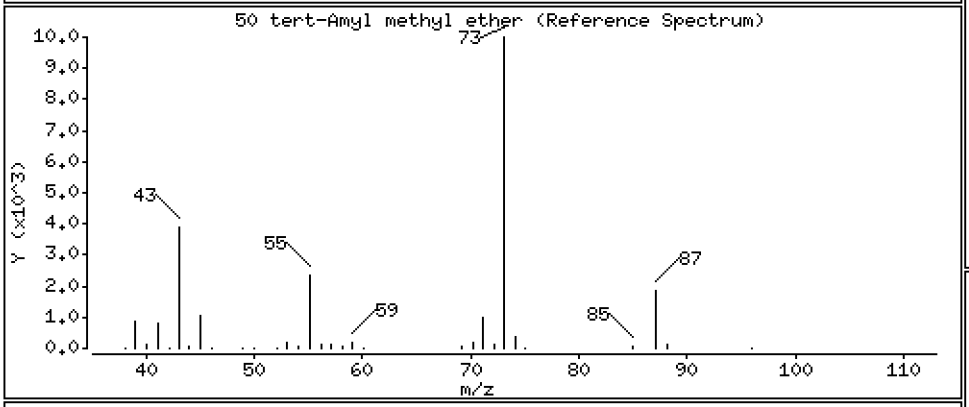
Purge Volume: 5.0 Operator: CJG

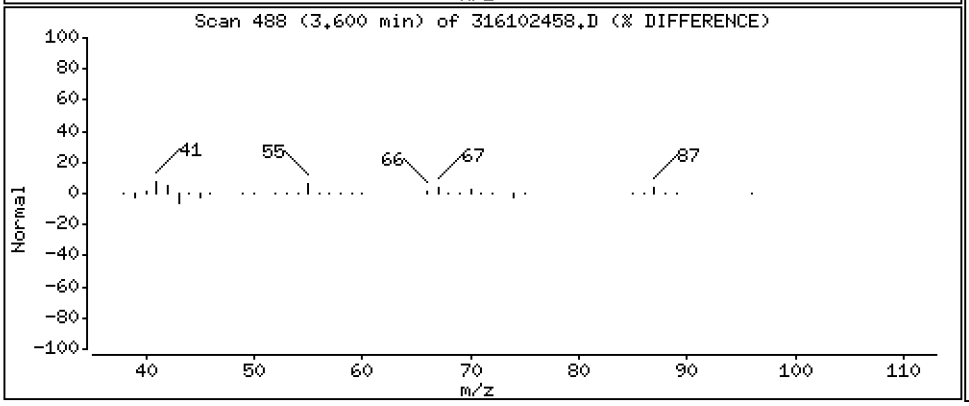
Column phase: DB-VRX Column diameter: 0.25

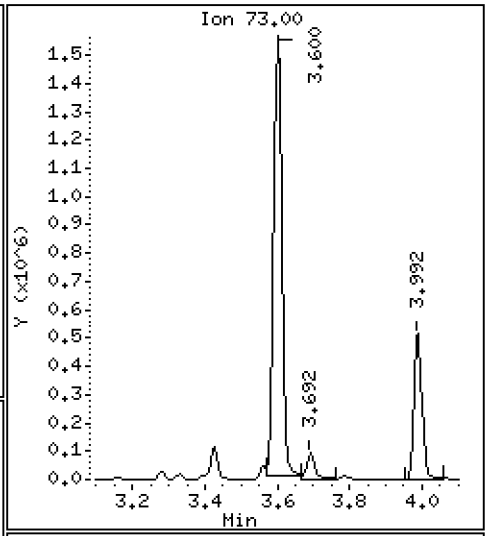
50 tert-Amyl methyl ether Concentration: 100.561 ug/L

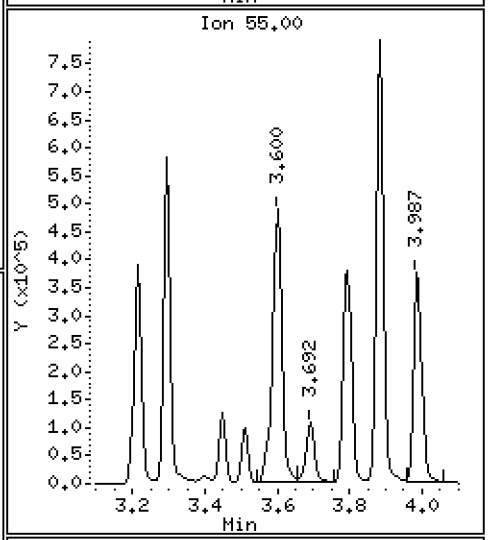


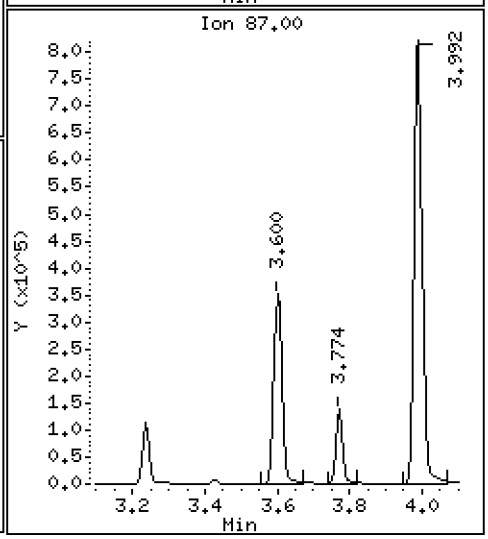












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 58

Date : 25-OCT-2016 01:14

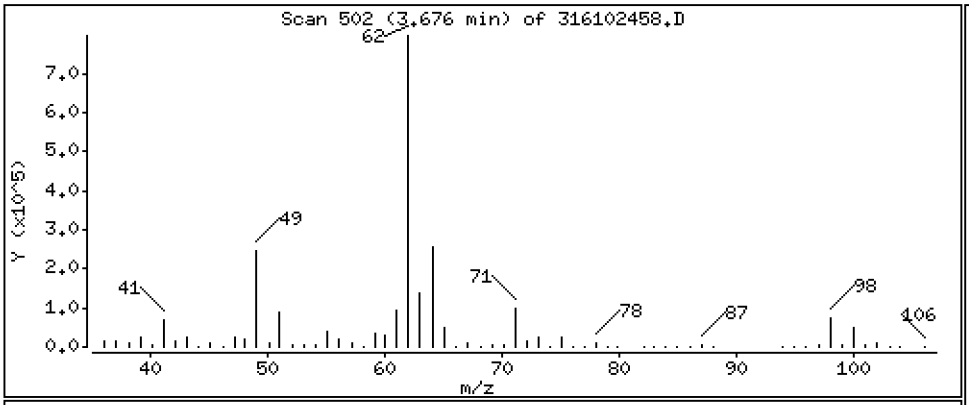
Client ID: Instrument: ms03.i

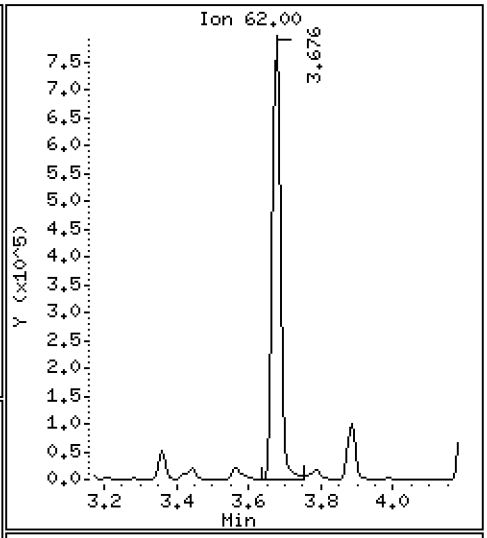
Sample Info: 1238;;1;1;5;;;

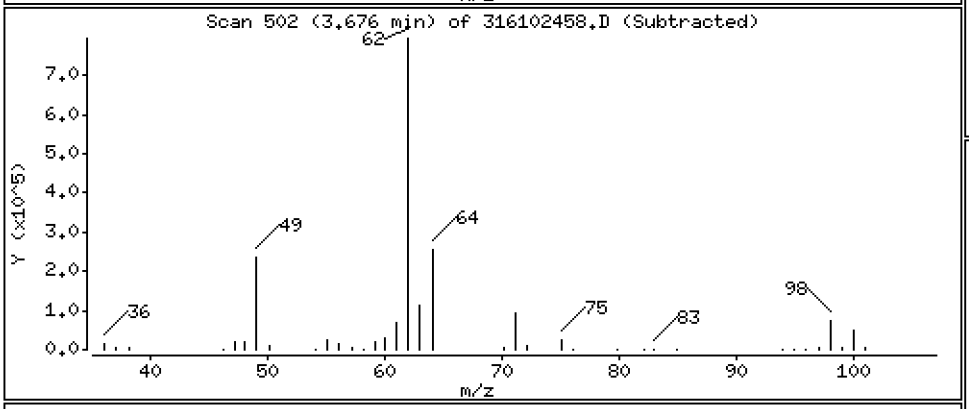
Purge Volume: 5.0 Operator: CJG

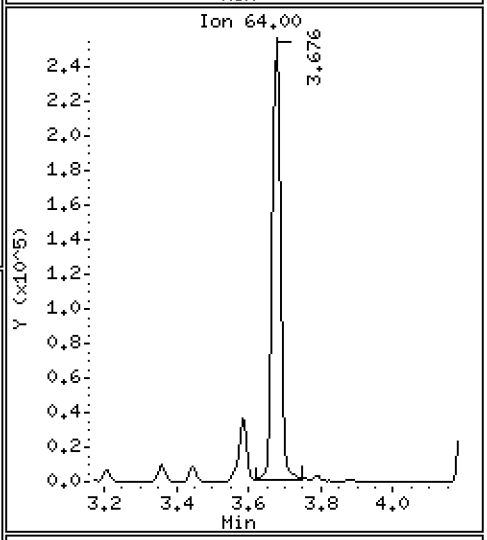
Column phase: DB-VRX Column diameter: 0.25

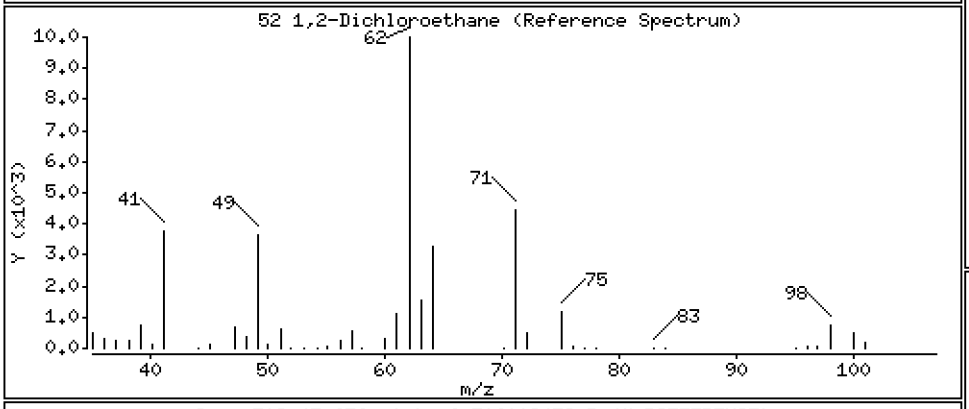
52 1,2-Dichloroethane Concentration: 99.9602 ug/L

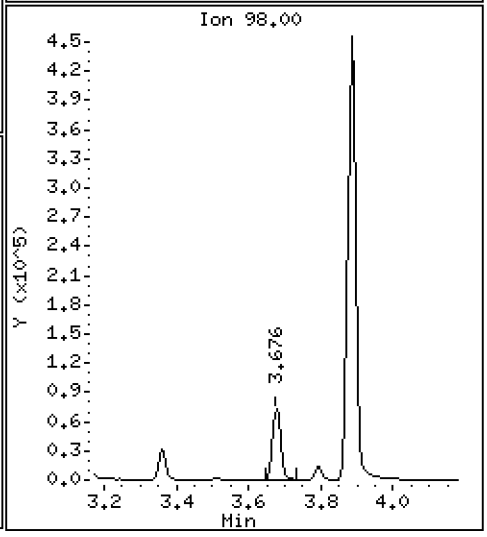


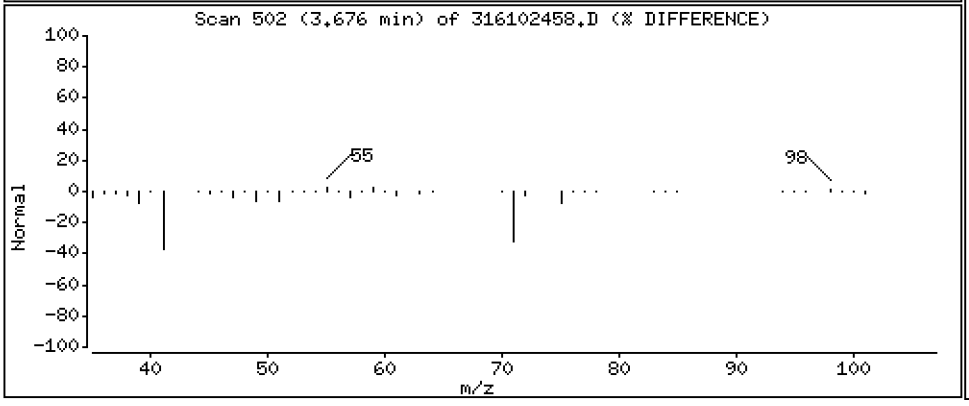












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 59

Date : 25-OCT-2016 01:14

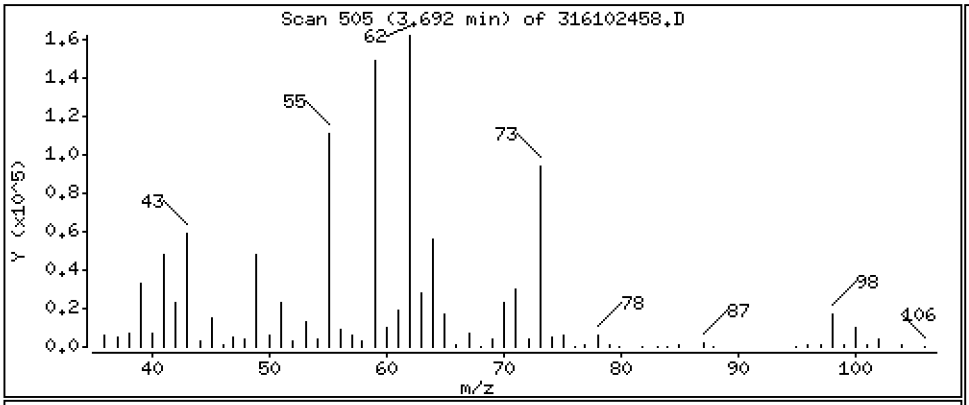
Client ID: Instrument: ms03.i

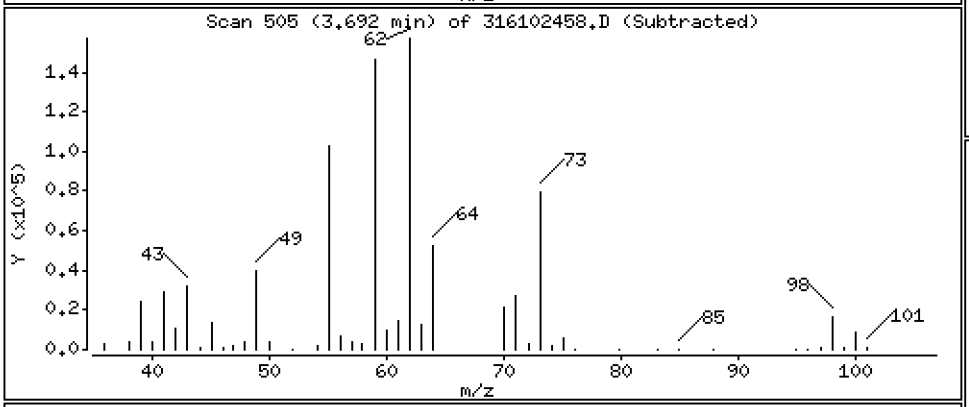
Sample Info: 1238;;1;1;5;;;

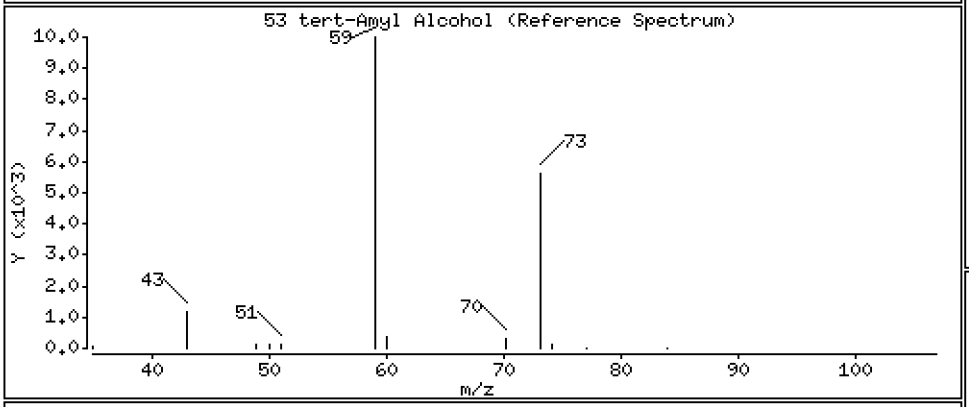
Purge Volume: 5.0 Operator: CJG

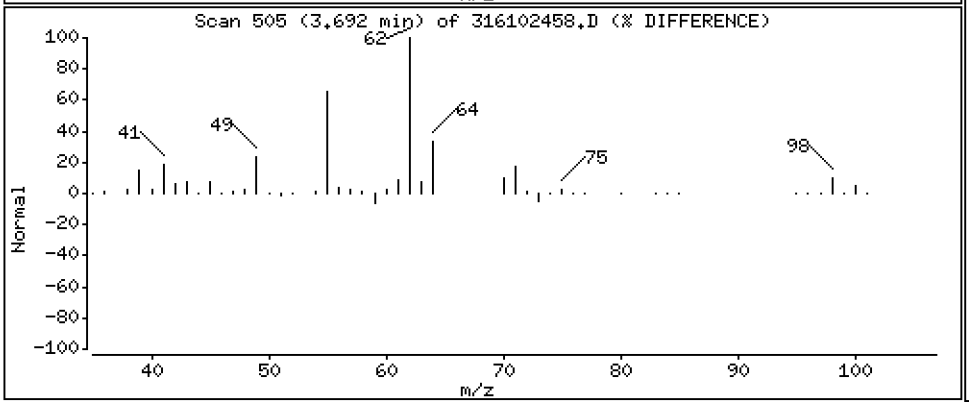
Column phase: DB-VRX Column diameter: 0.25

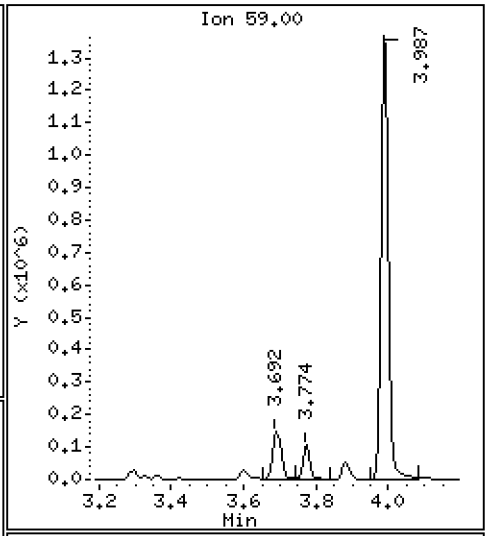
53 tert-Amyl Alcohol Concentration: 497.132 ug/L

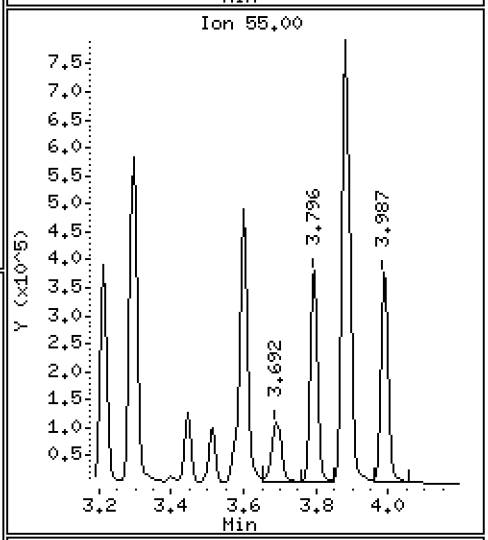


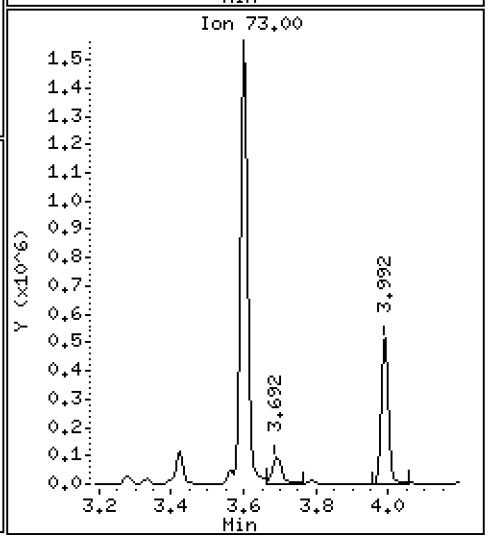












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 60

Date : 25-OCT-2016 01:14

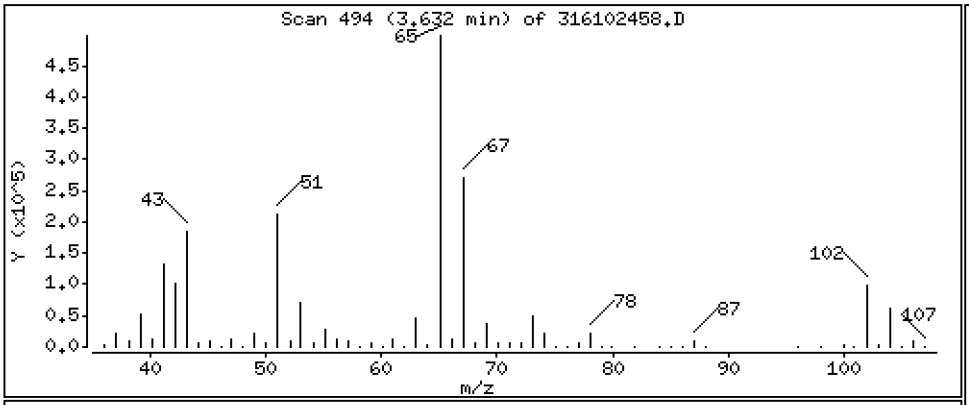
Client ID: Instrument: ms03.i

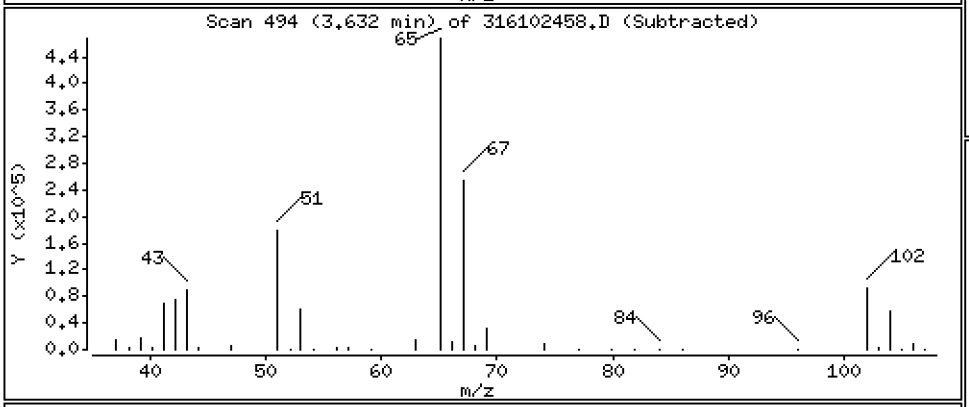
Sample Info: 1238;;1;1;5;;;

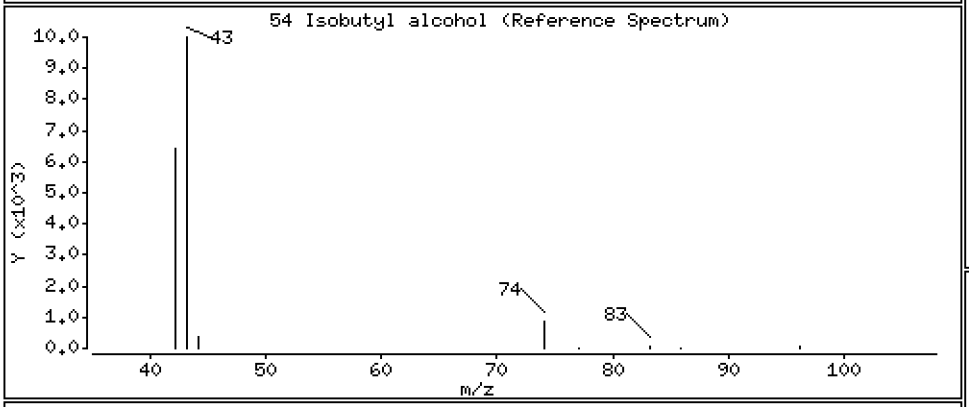
Purge Volume: 5.0 Operator: CJG

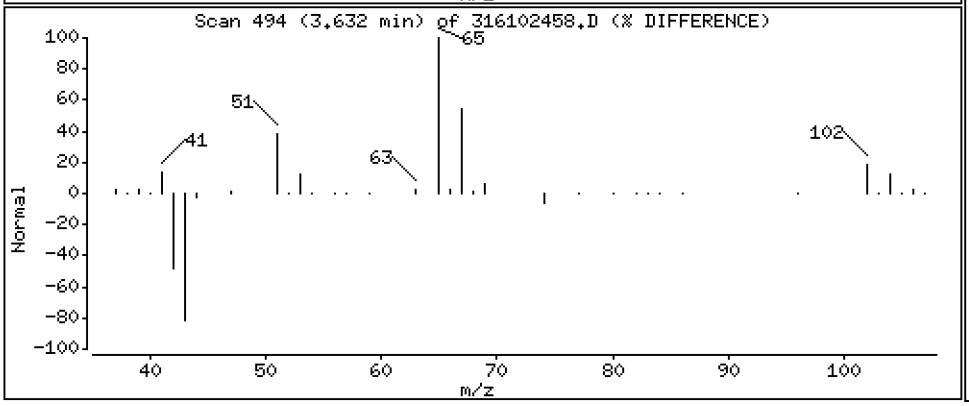
Column phase: DB-VRX Column diameter: 0.25

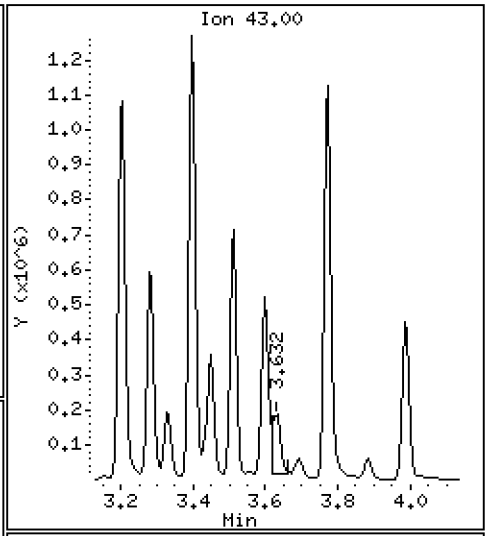
54 Isobutyl alcohol Concentration: 962.747 ug/L

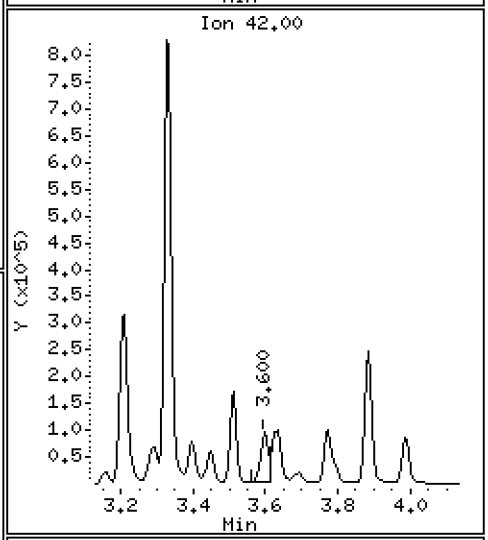


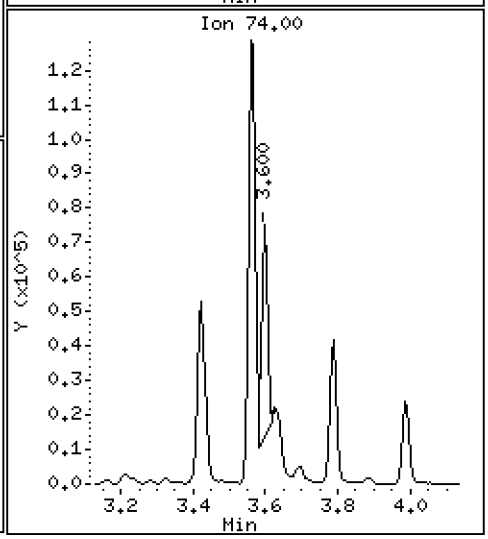












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 61

Date : 25-OCT-2016 01:14

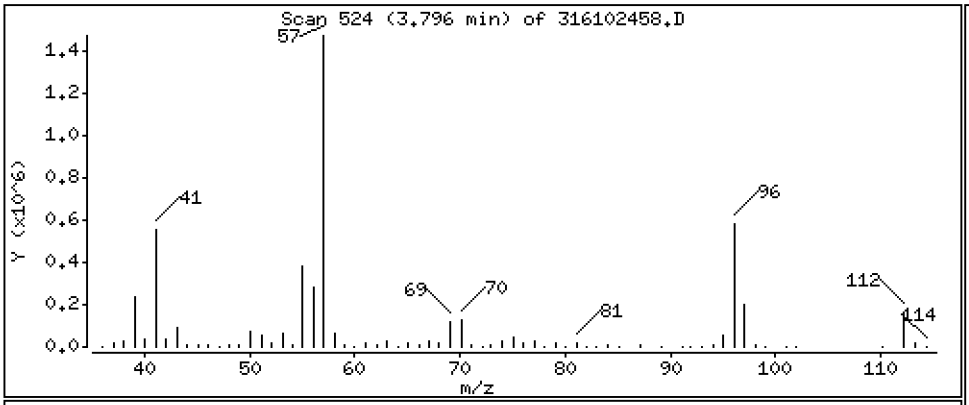
Client ID: Instrument: ms03.i

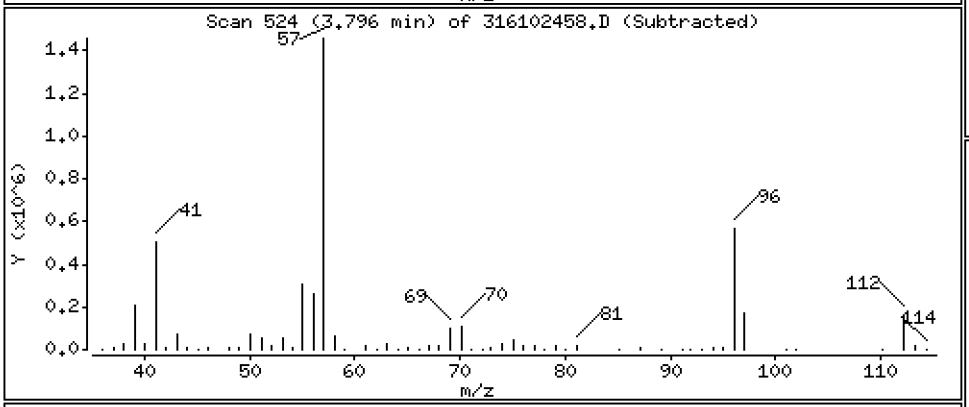
Sample Info: 1238;;1;1;5;;;

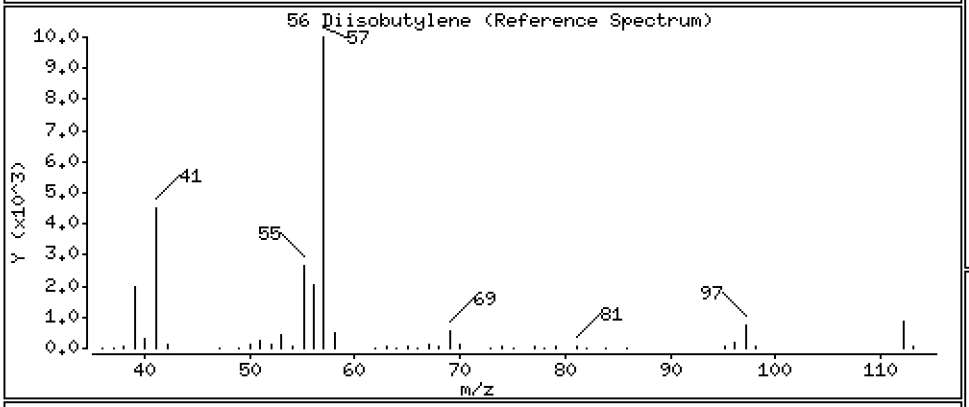
Purge Volume: 5.0 Operator: CJG

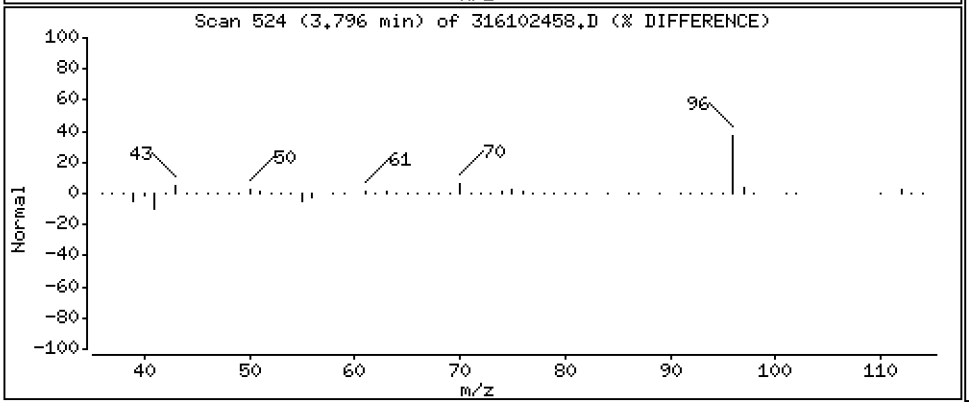
Column phase: DB-VRX Column diameter: 0.25

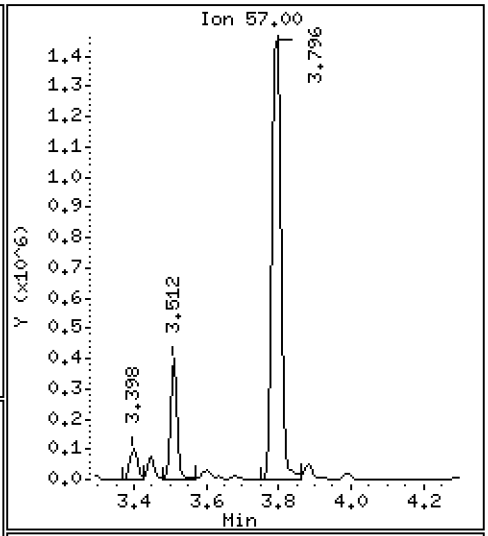
56 Diisobutylene Concentration: 100.003 ug/L

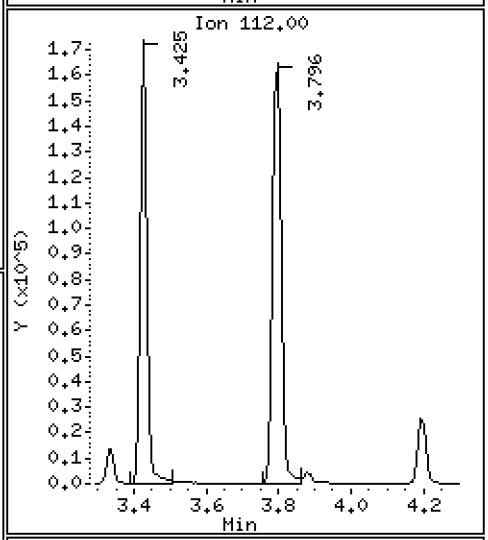


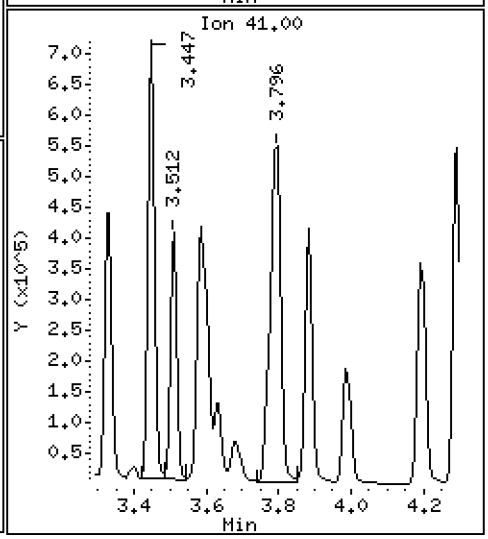












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 62

Date : 25-OCT-2016 01:14

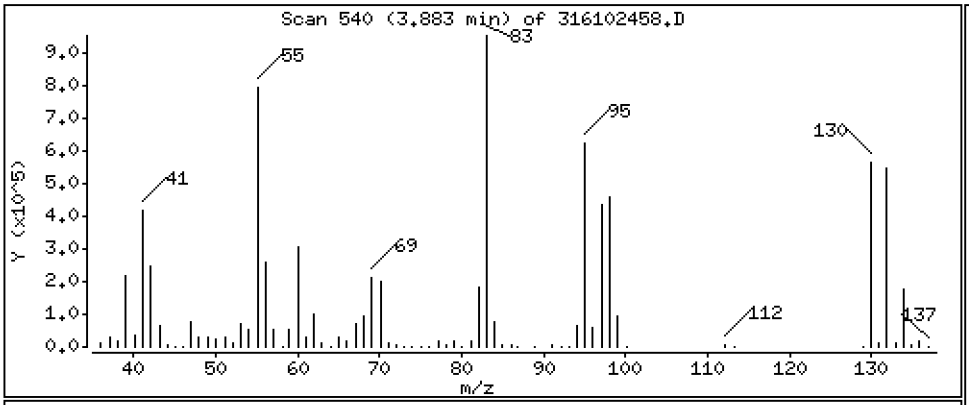
Client ID: Instrument: ms03.i

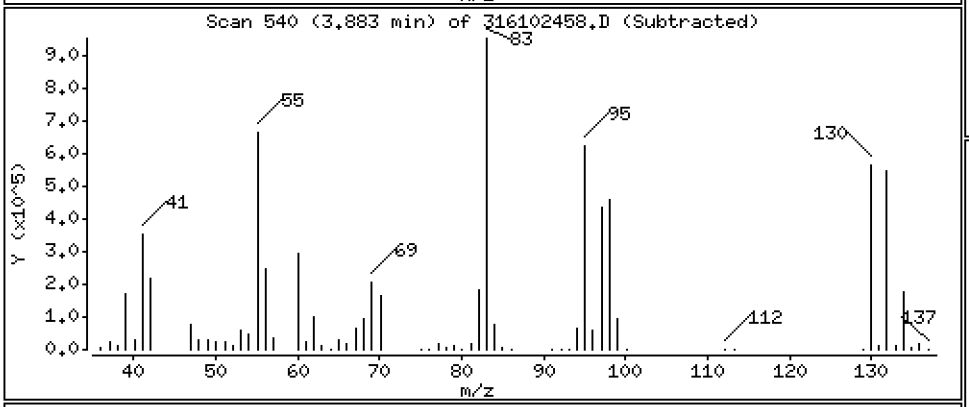
Sample Info: 1238;;1;1;5;;;

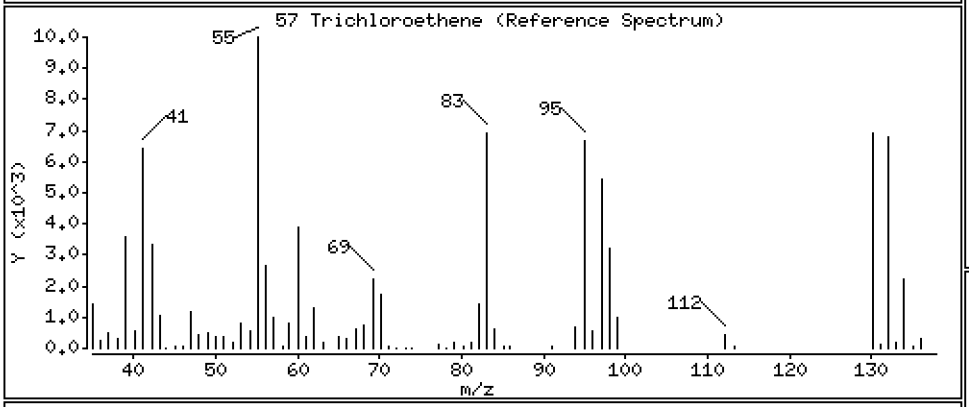
Purge Volume: 5.0 Operator: CJG

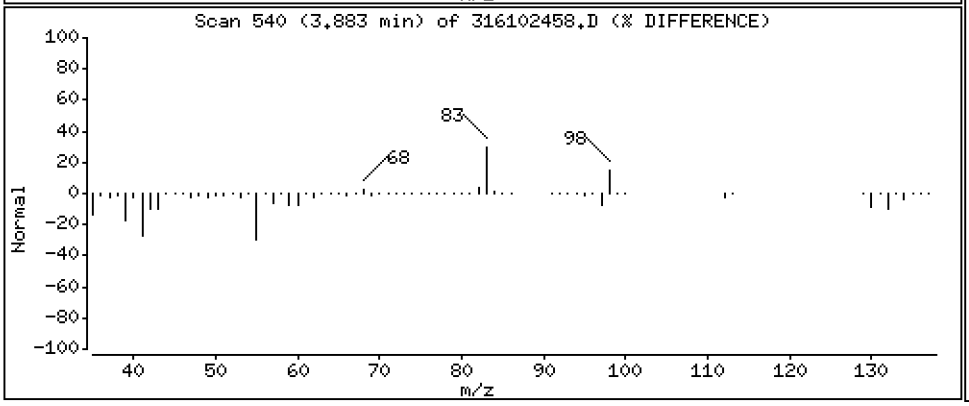
Column phase: DB-VRX Column diameter: 0.25

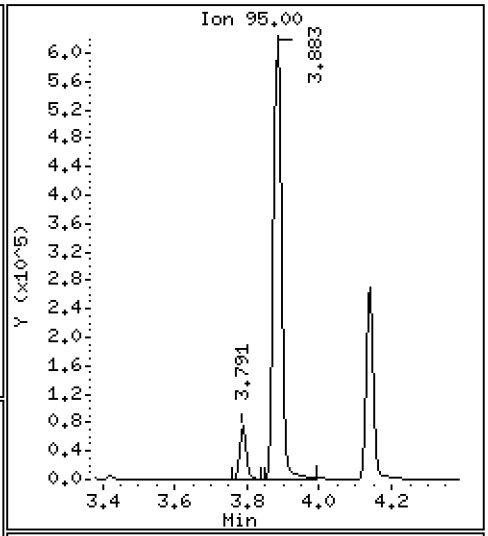
57 Trichloroethene Concentration: 99.7120 ug/L

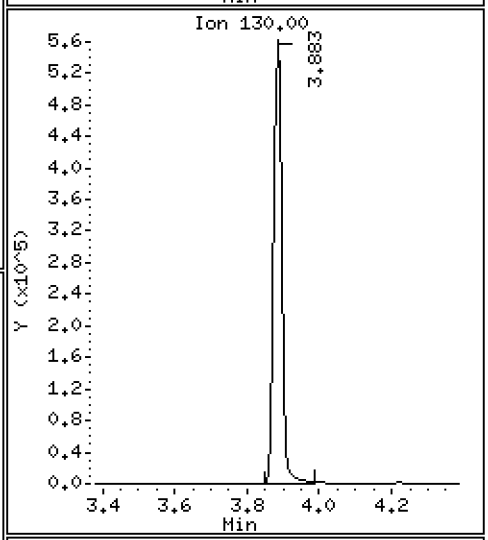


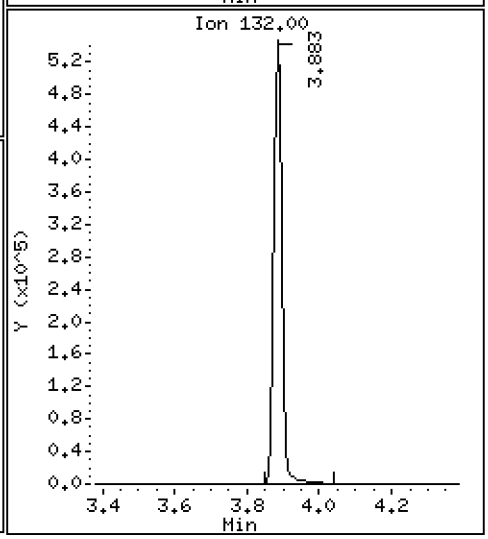












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 63

Date : 25-OCT-2016 01:14

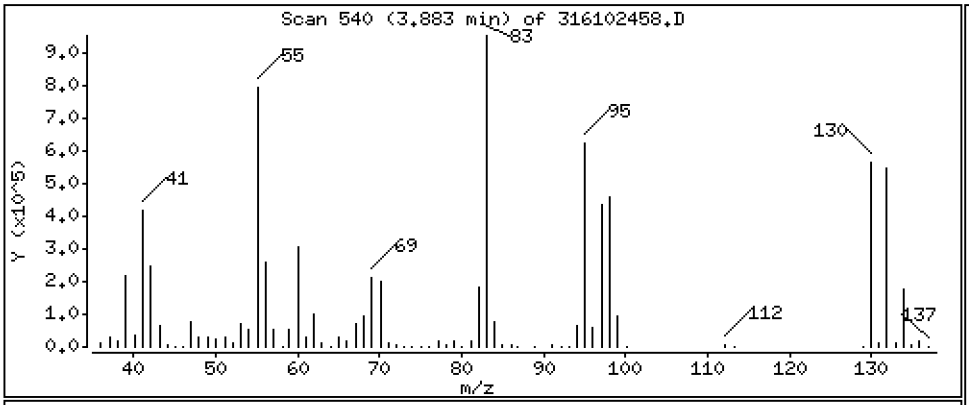
Client ID: Instrument: ms03.i

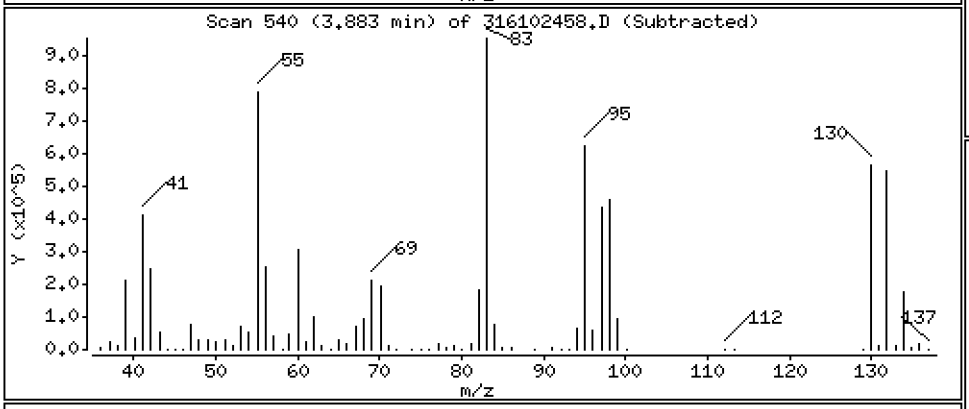
Sample Info: 1238;;1;1;5;;;

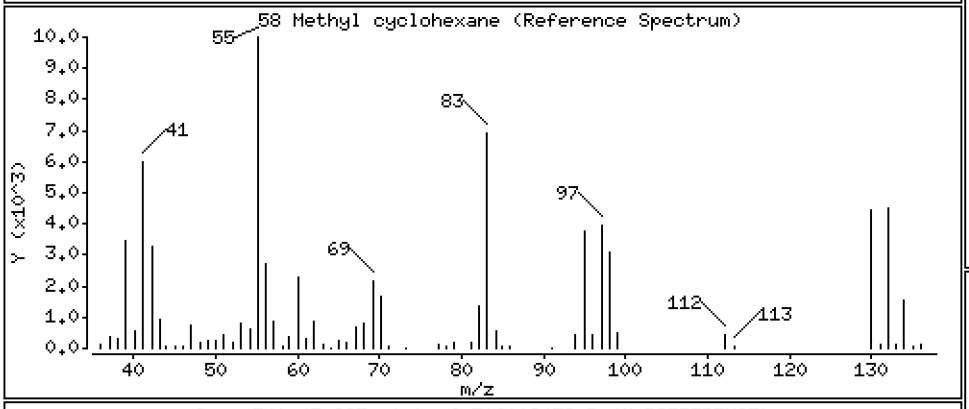
Purge Volume: 5.0 Operator: CJG

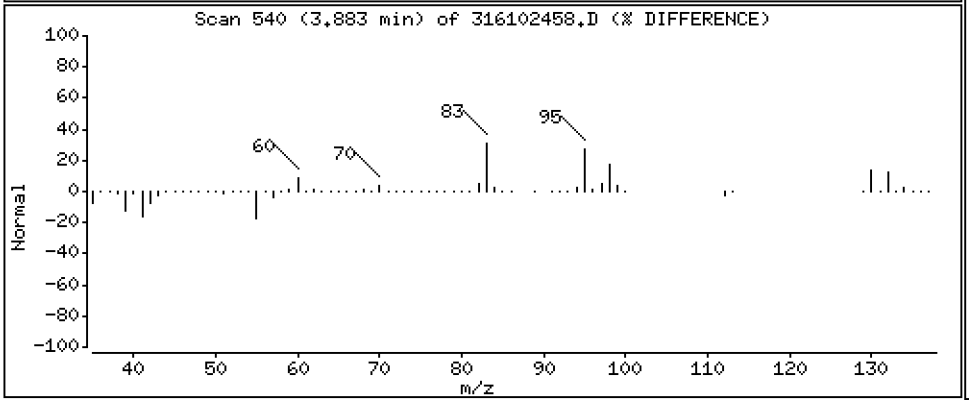
Column phase: DB-VRX Column diameter: 0.25

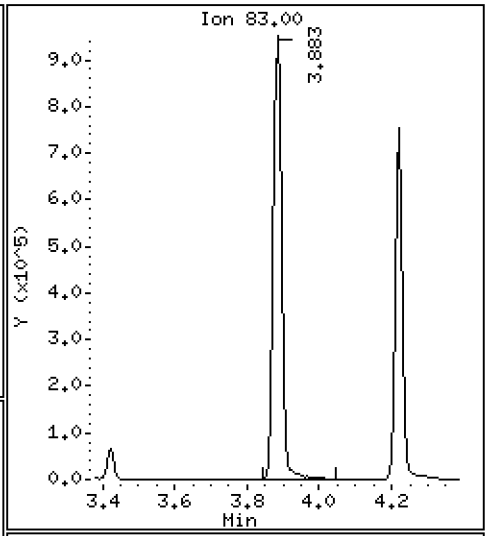
58 Methyl cyclohexane Concentration: 99.5157 ug/L

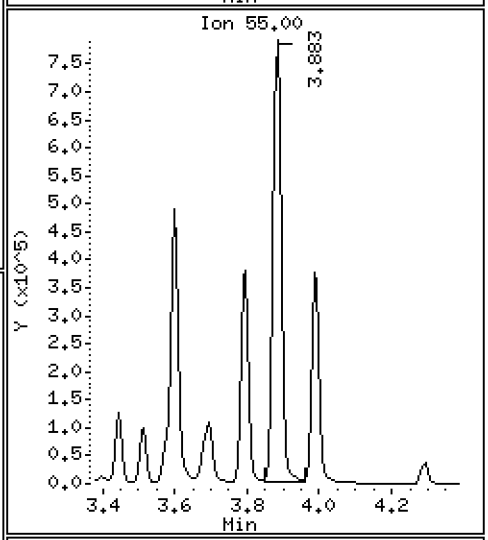


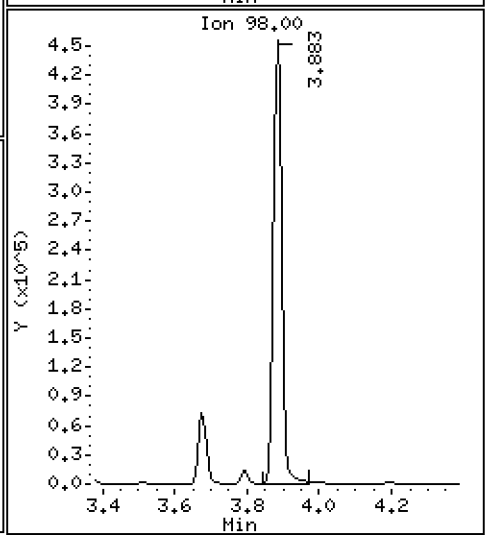












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 64

Date : 25-OCT-2016 01:14

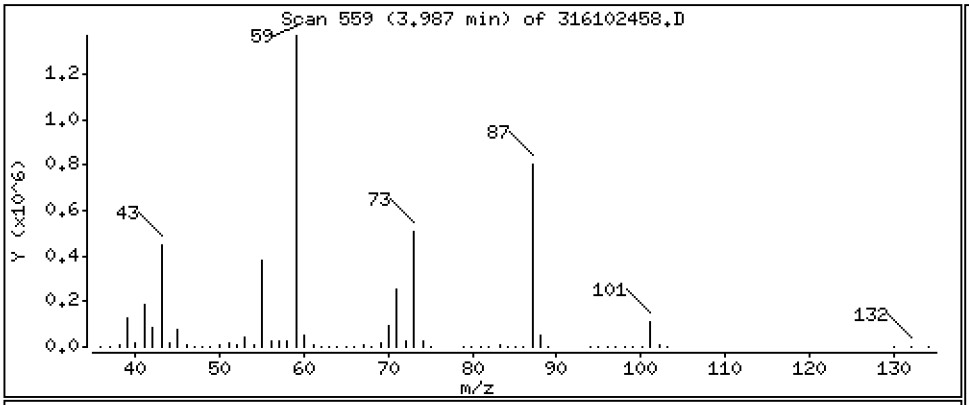
Client ID: Instrument: ms03.i

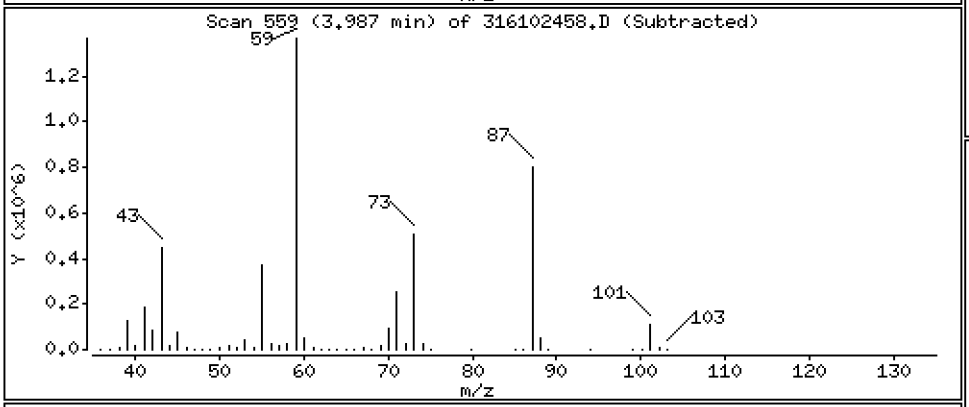
Sample Info: 1238;;1;1;5;;;

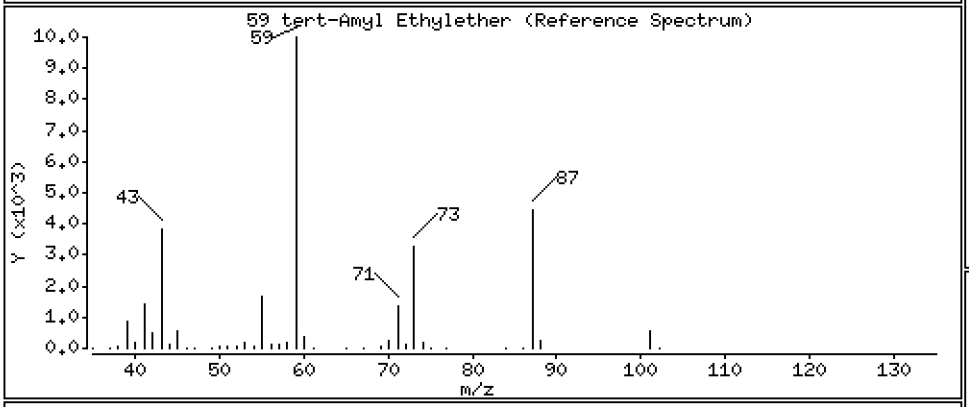
Purge Volume: 5.0 Operator: CJG

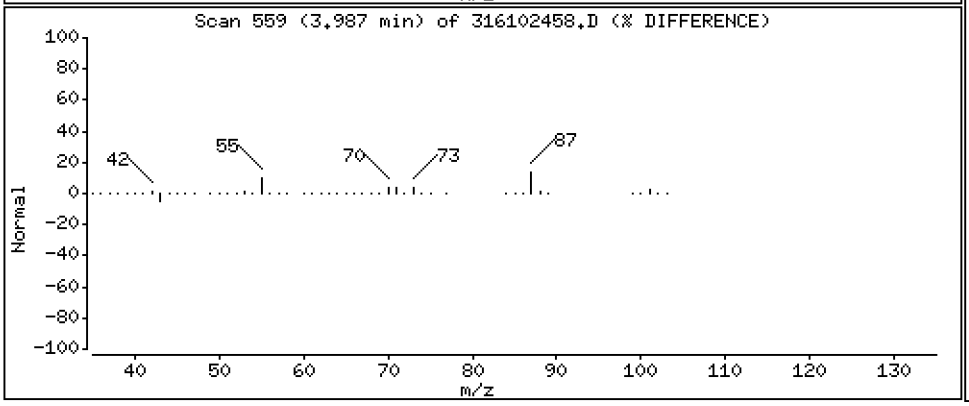
Column phase: DB-VRX Column diameter: 0.25

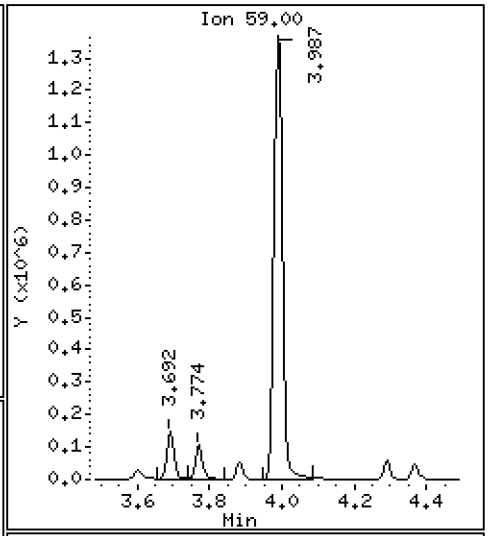
59 tert-Amyl Ethylether Concentration: 101.139 ug/L

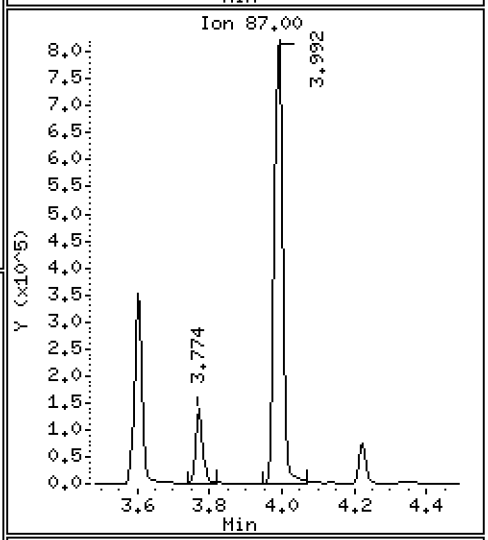


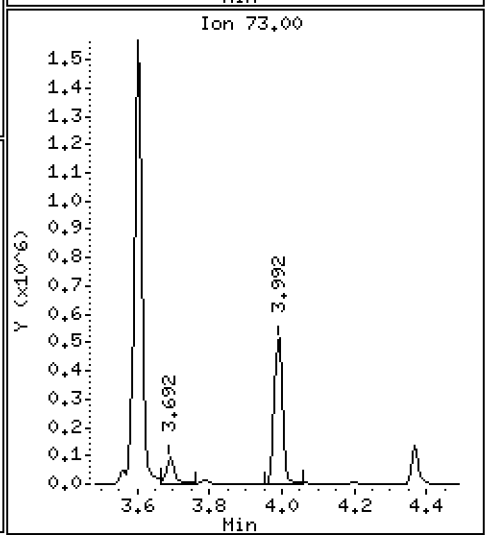












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 65

Date : 25-OCT-2016 01:14

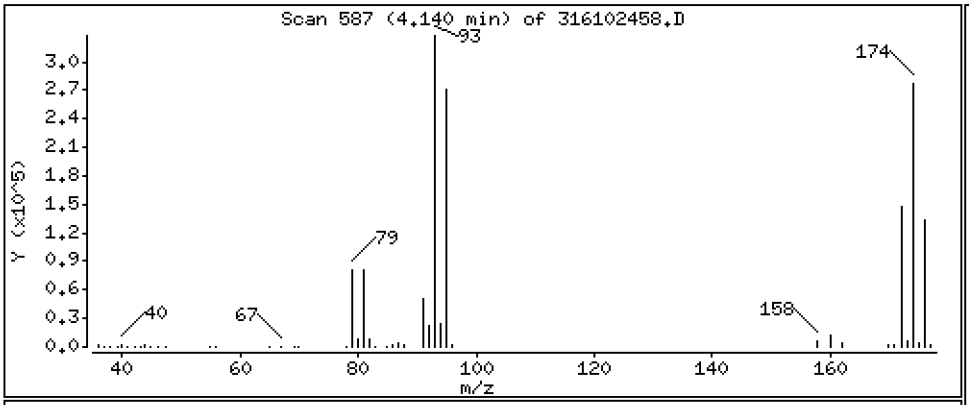
Client ID: Instrument: ms03.i

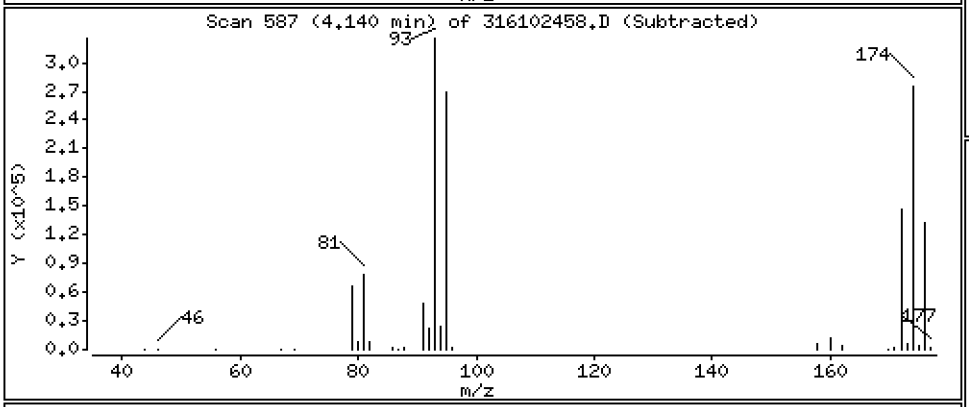
Sample Info: 1238;;1;1;5;;;

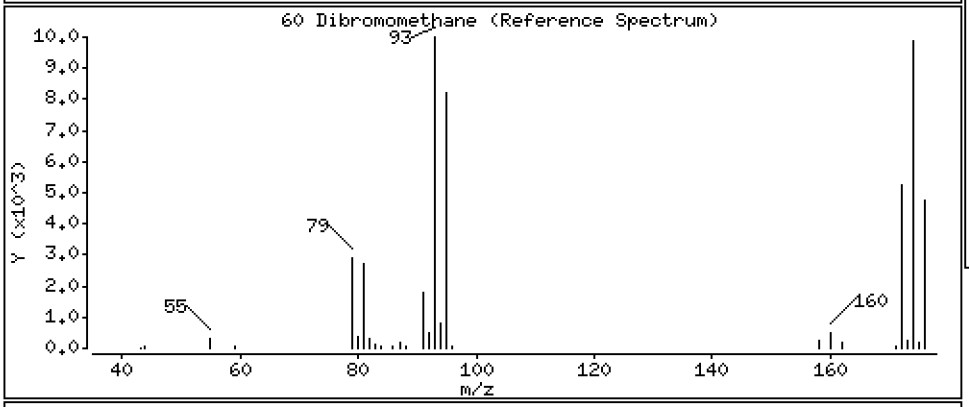
Purge Volume: 5.0 Operator: CJG

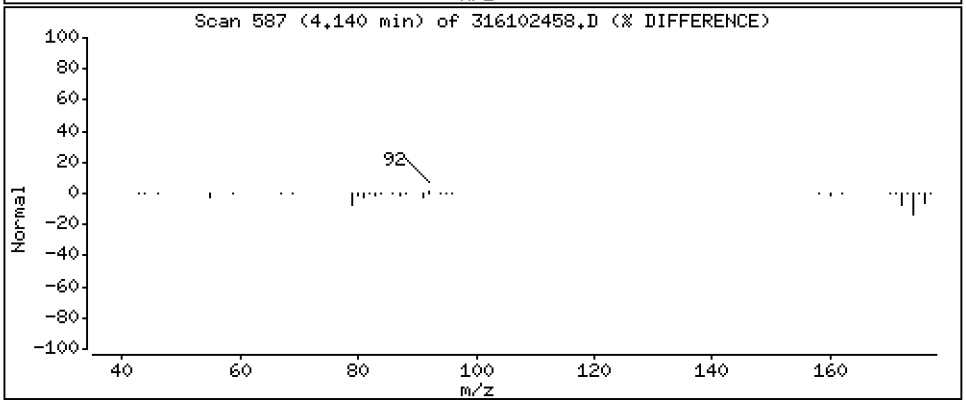
Column phase: DB-VRX Column diameter: 0.25

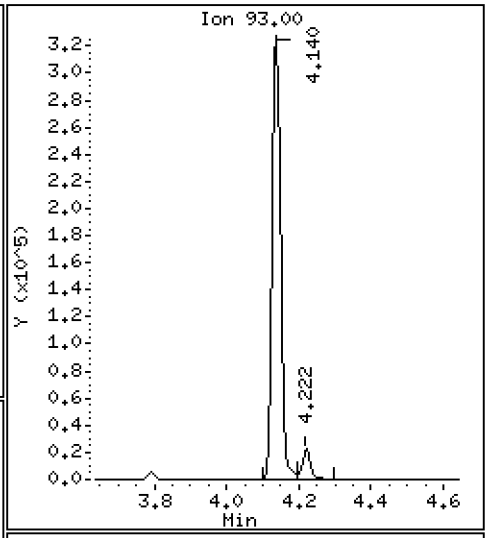
60 Dibromomethane Concentration: 100.487 ug/L

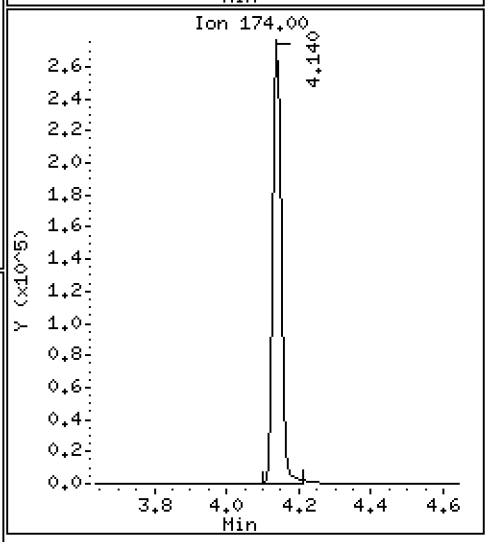












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 66

Date : 25-OCT-2016 01:14

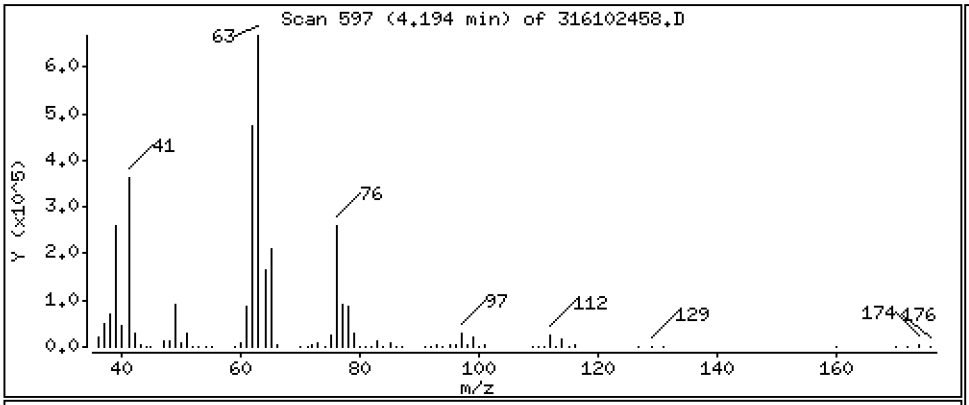
Client ID: Instrument: ms03.i

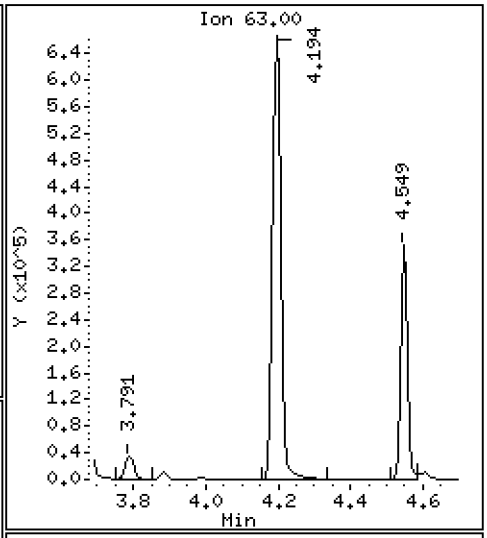
Sample Info: 1238;;1;1;5;;;

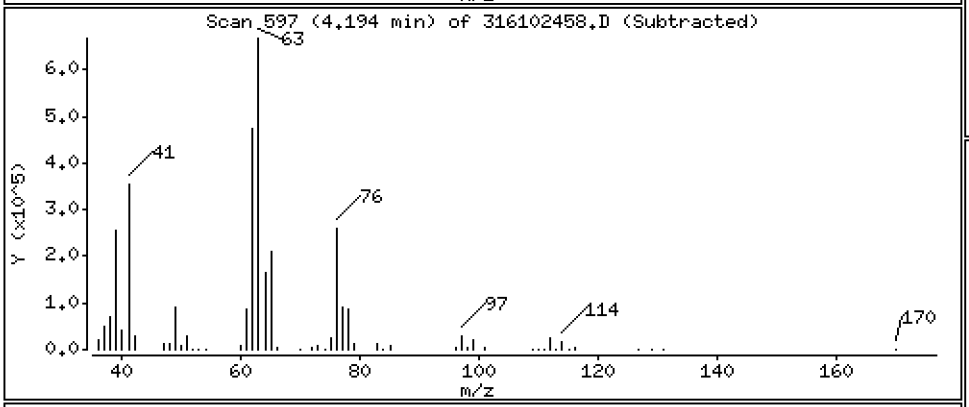
Purge Volume: 5.0 Operator: CJG

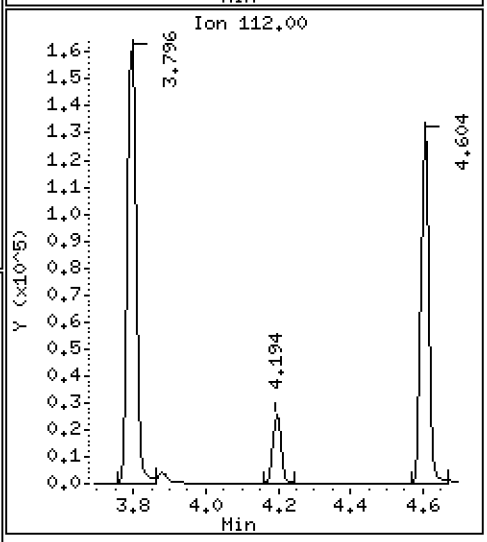
Column phase: DB-VRX Column diameter: 0.25

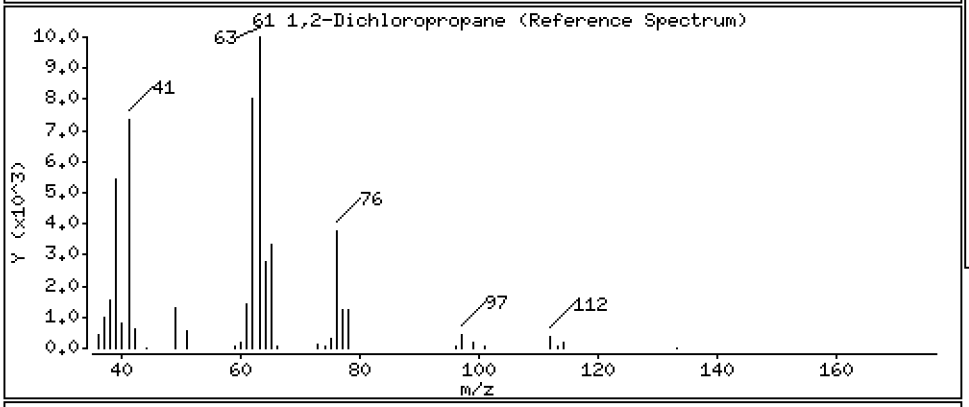
61 1,2-Dichloropropane Concentration: 100.371 ug/L

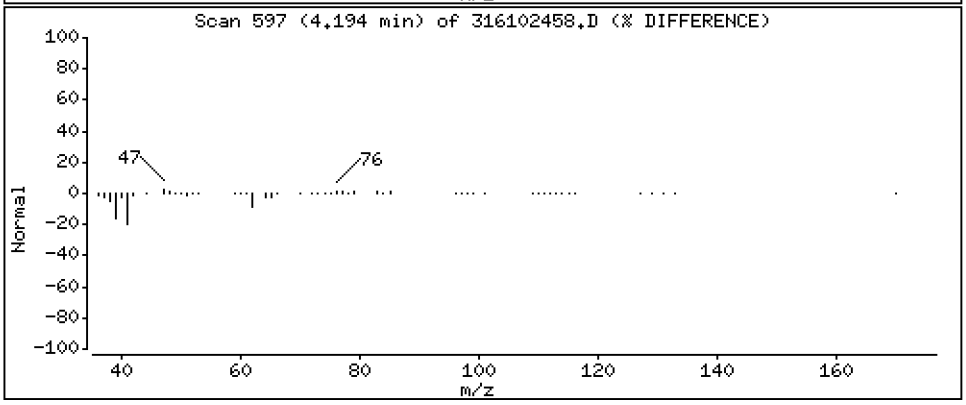












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 67

Date : 25-OCT-2016 01:14

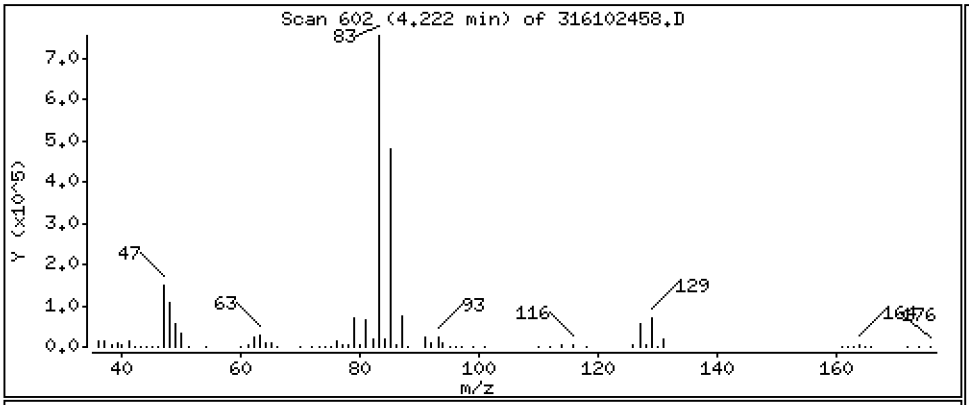
Client ID: Instrument: ms03.i

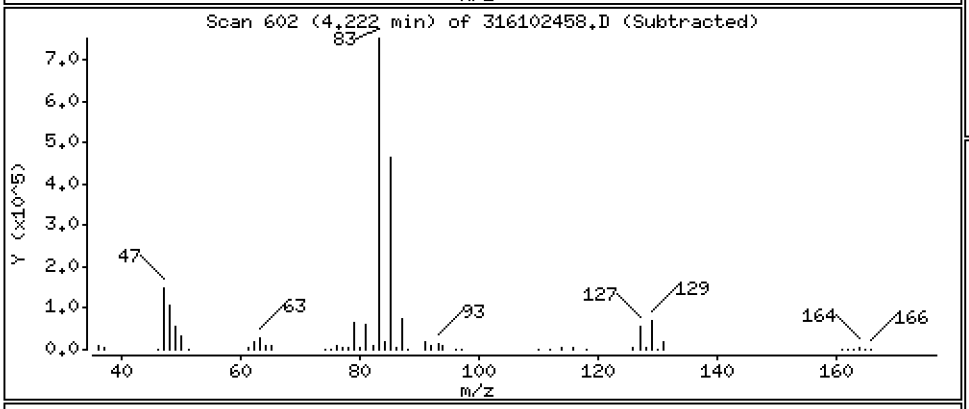
Sample Info: 1238;;1;1;5;;;

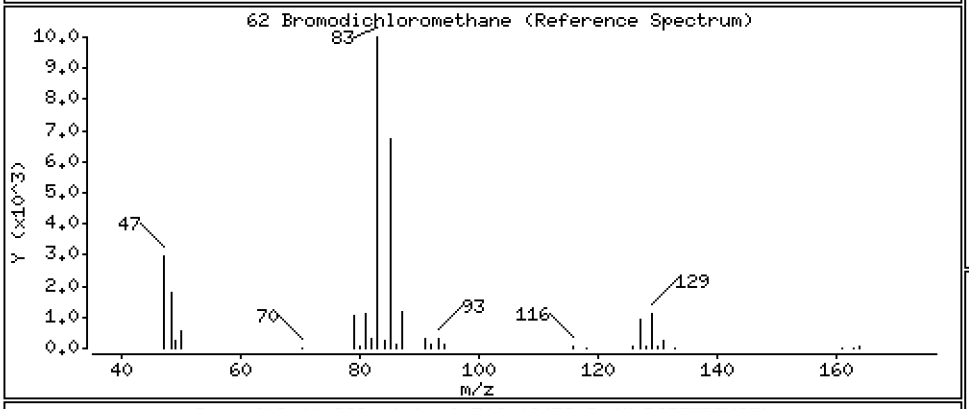
Purge Volume: 5.0 Operator: CJG

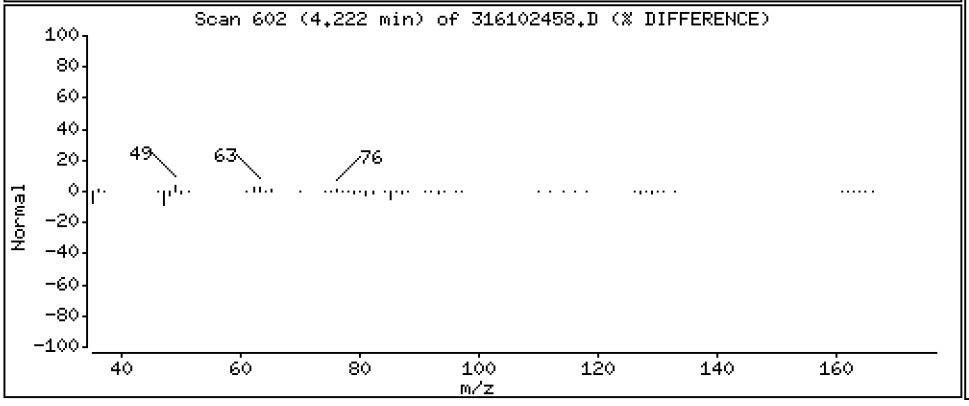
Column phase: DB-VRX Column diameter: 0.25

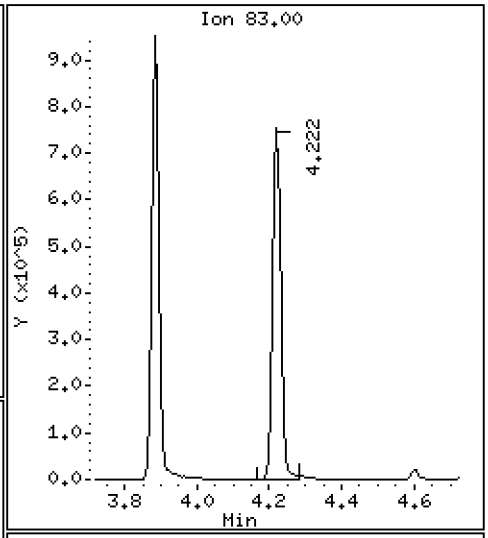
62 Bromodichloromethane Concentration: 100.661 ug/L

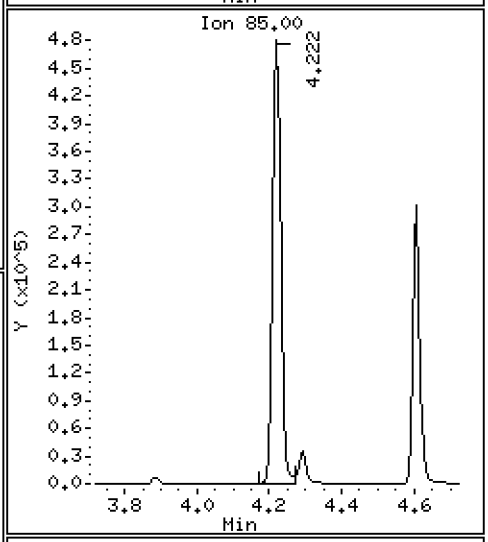


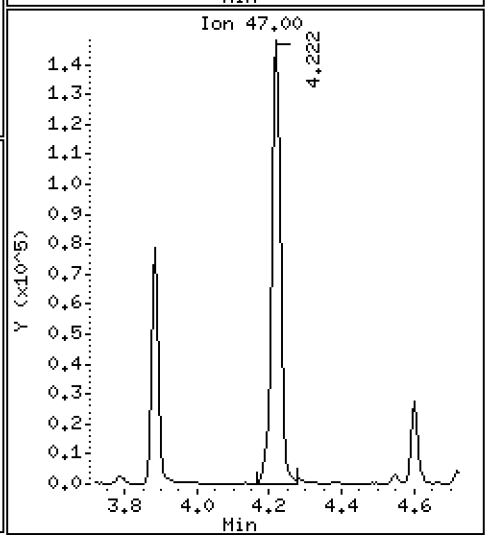












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 68

Date : 25-OCT-2016 01:14

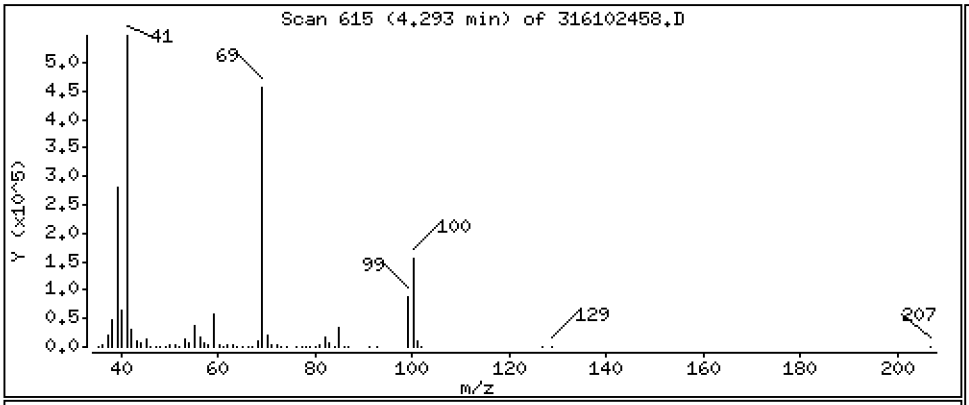
Client ID: Instrument: ms03.i

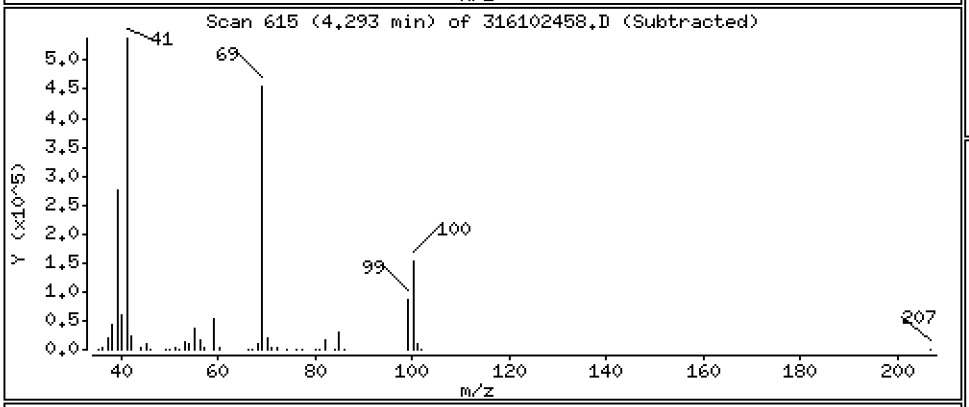
Sample Info: 1238;;1;1;5;;;

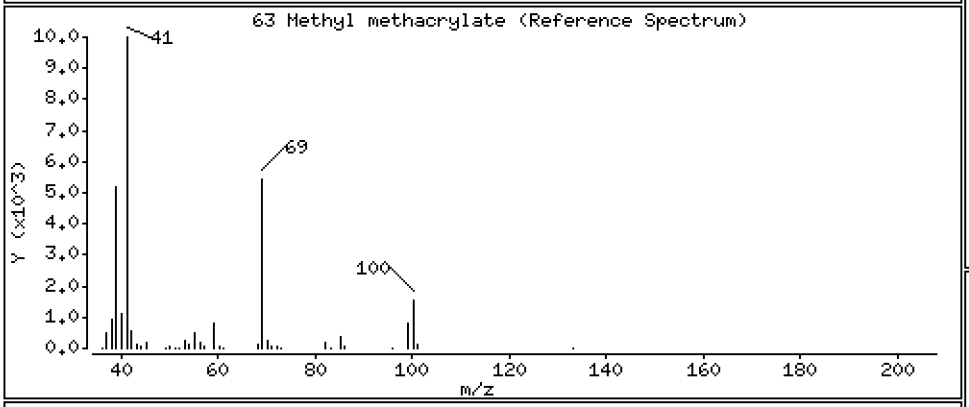
Purge Volume: 5.0 Operator: CJG

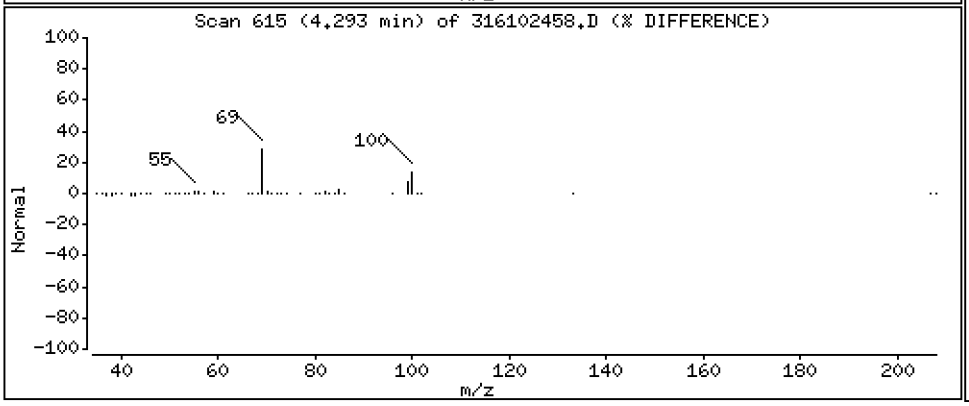
Column phase: DB-VRX Column diameter: 0.25

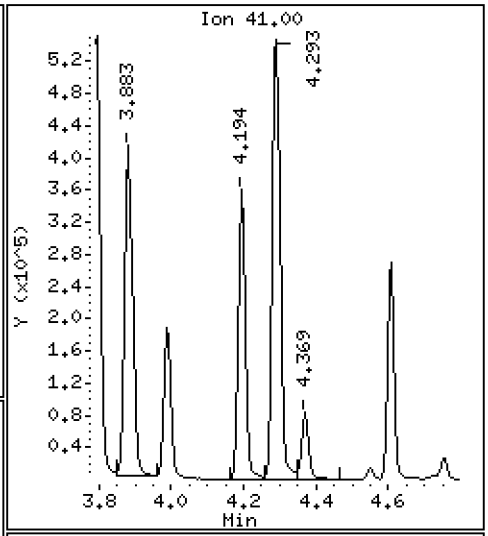
63 Methyl methacrylate Concentration: 101.373 ug/L

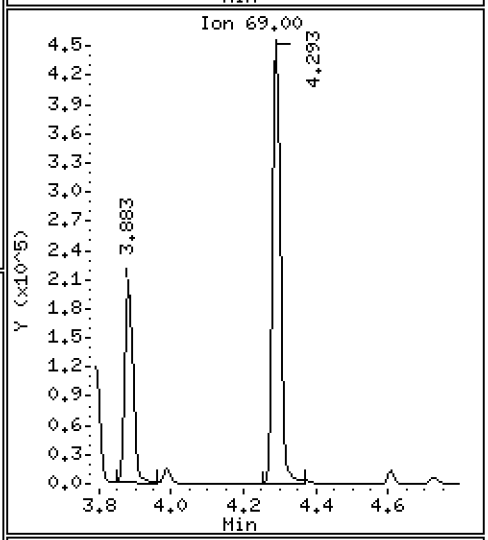


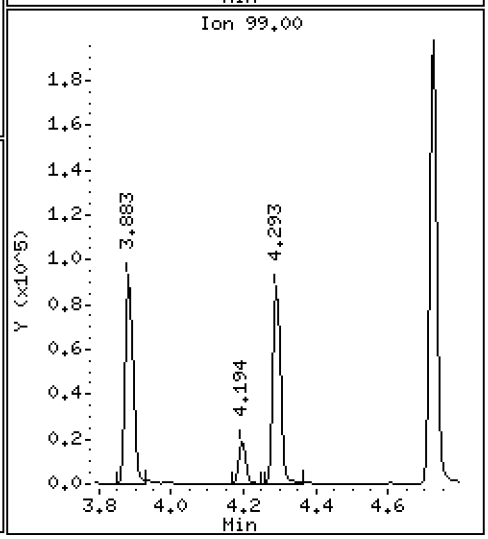












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 69

Date : 25-OCT-2016 01:14

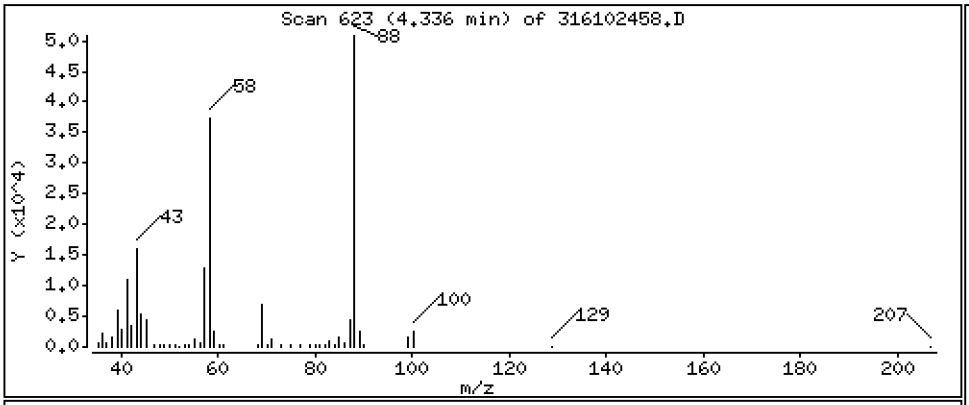
Client ID: Instrument: ms03.i

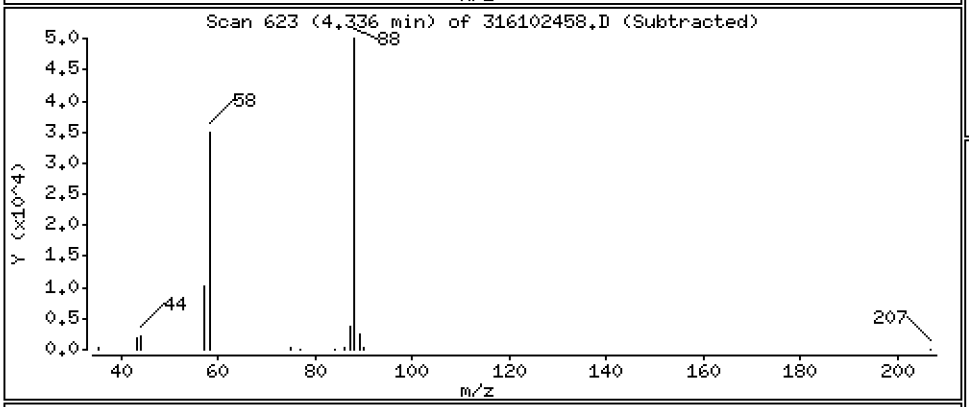
Sample Info: 1238;;1;1;5;;;

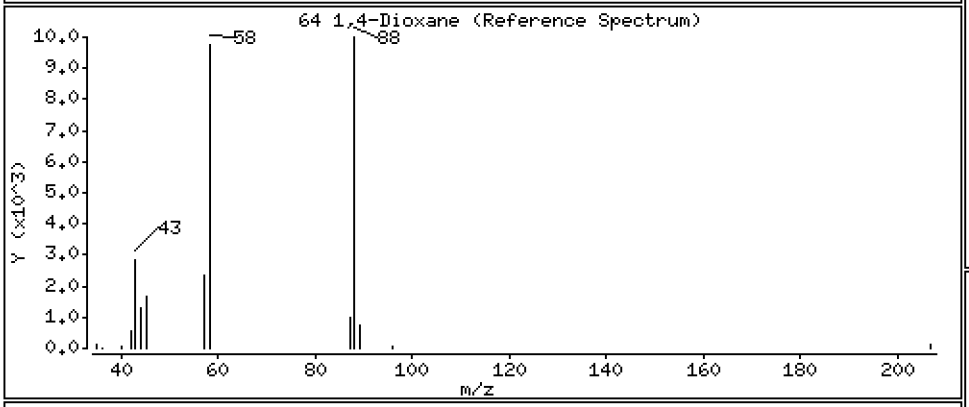
Purge Volume: 5.0 Operator: CJG

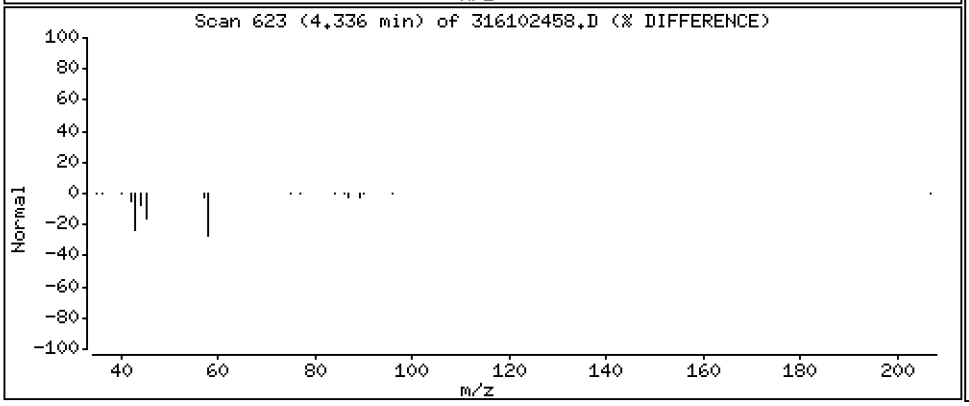
Column phase: DB-VRX Column diameter: 0.25

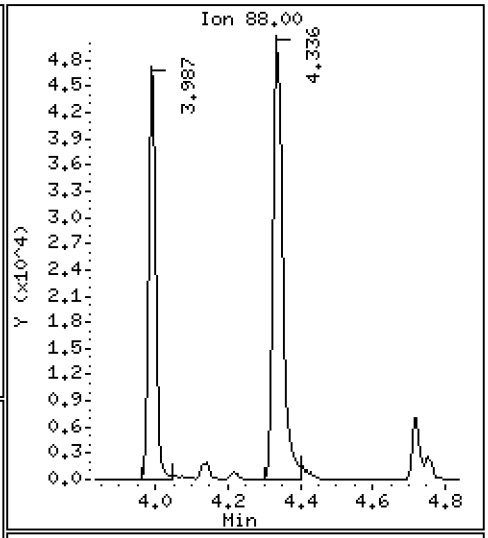
64 1,4-Dioxane Concentration: 2489.20 ug/L

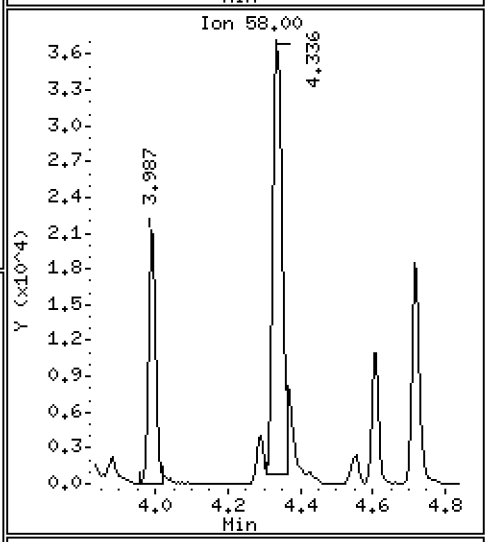


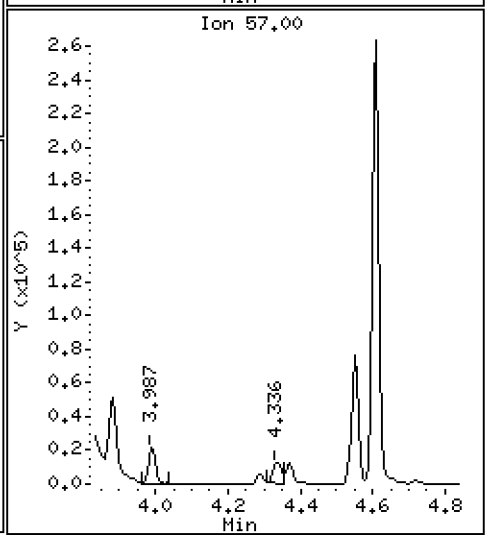












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 70

Date : 25-OCT-2016 01:14

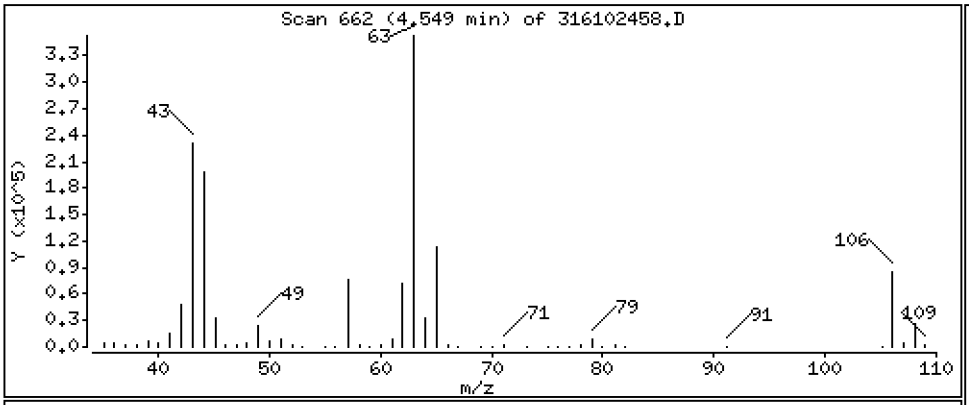
Client ID: Instrument: ms03.i

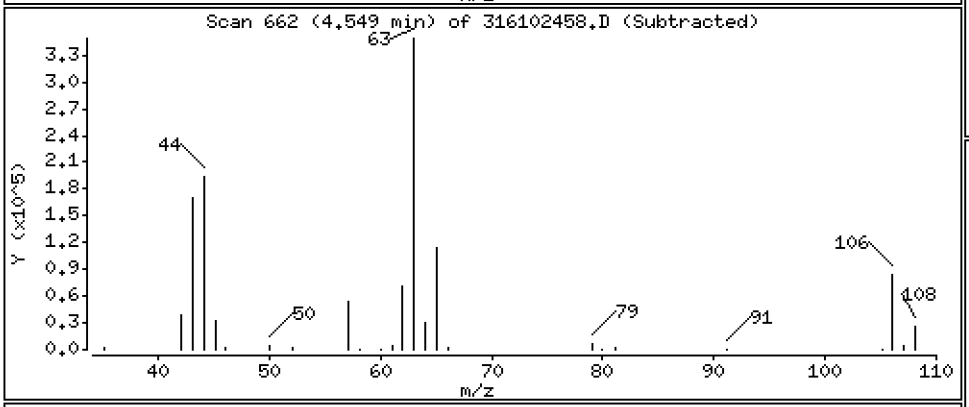
Sample Info: 1238;;1;1;5;;;

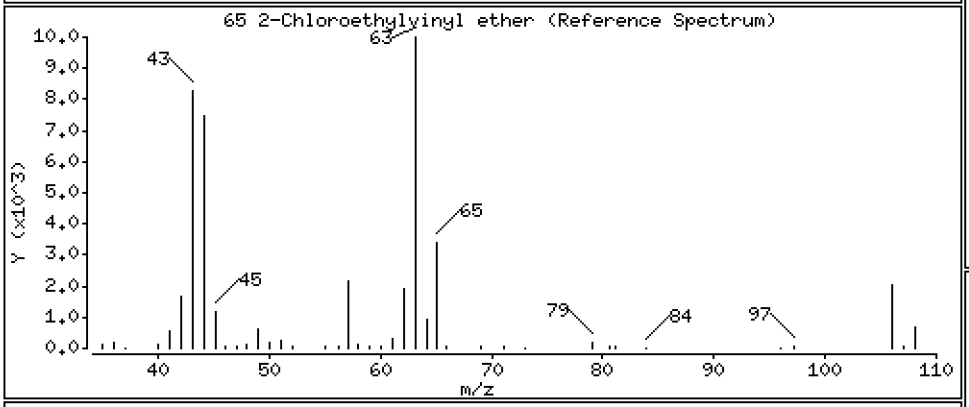
Purge Volume: 5.0 Operator: CJG

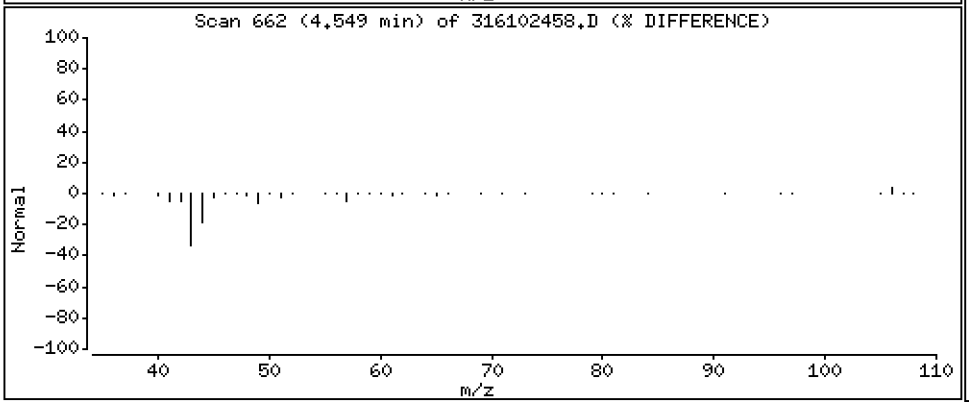
Column phase: DB-VRX Column diameter: 0.25

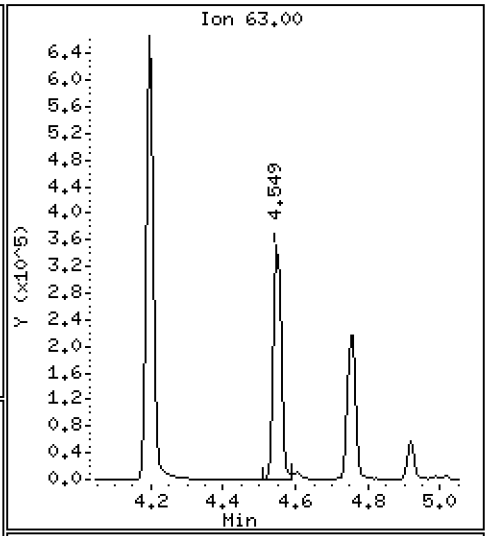
65 2-Chloroethylvinyl ether Concentration: 101.327 ug/L

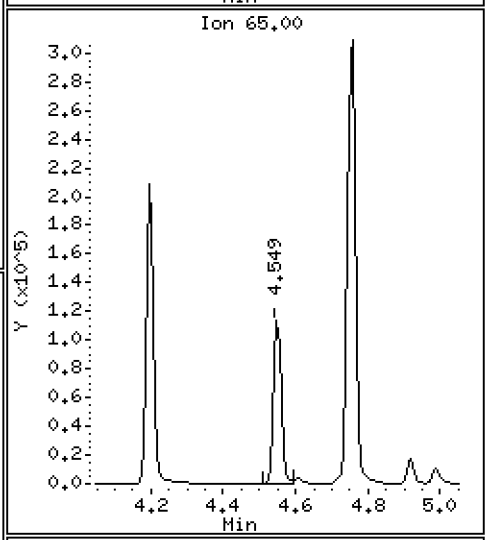


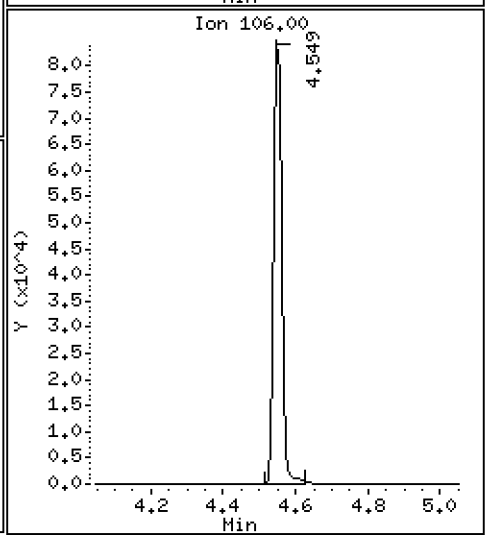












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 71

Date : 25-OCT-2016 01:14

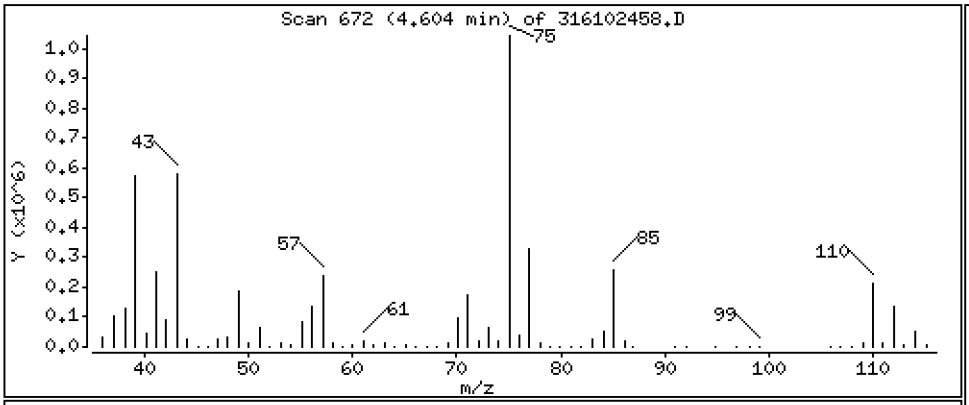
Client ID: Instrument: ms03.i

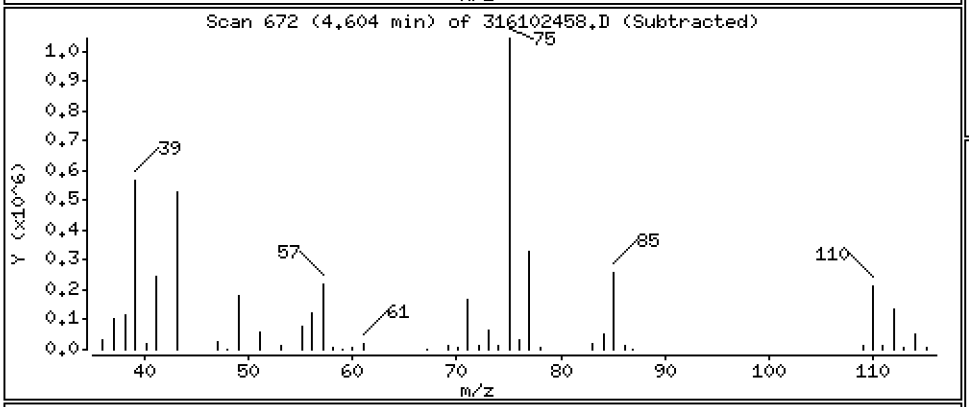
Sample Info: 1238;;1;1;5;;;

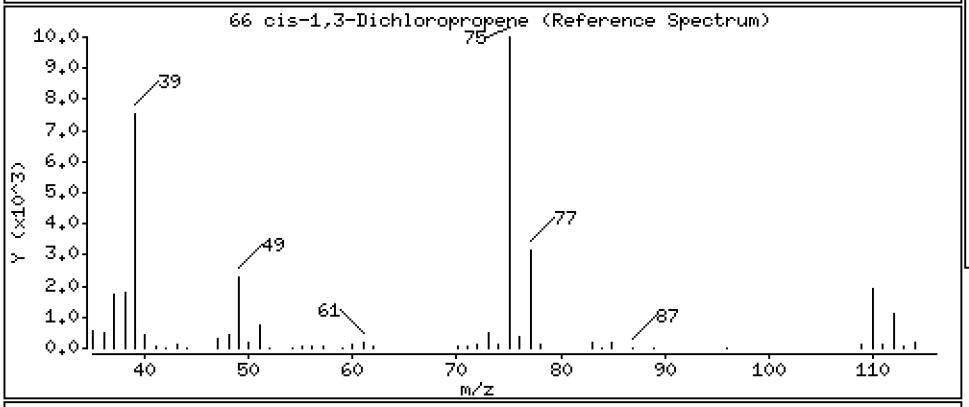
Purge Volume: 5.0 Operator: CJG

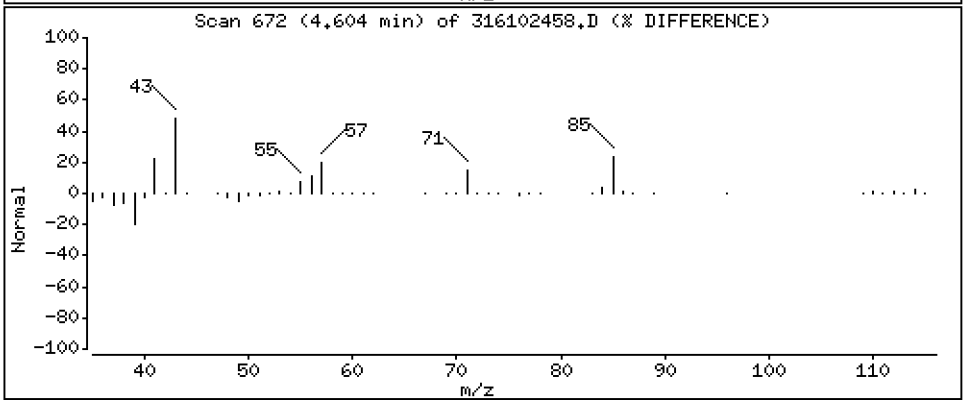
Column phase: DB-VRX Column diameter: 0.25

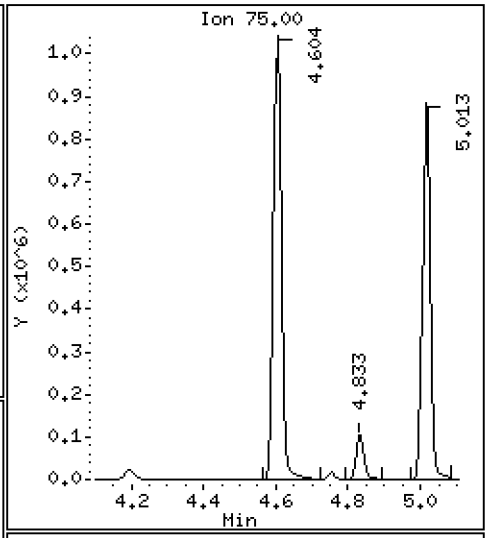
66 cis-1,3-Dichloropropene Concentration: 100.966 ug/L

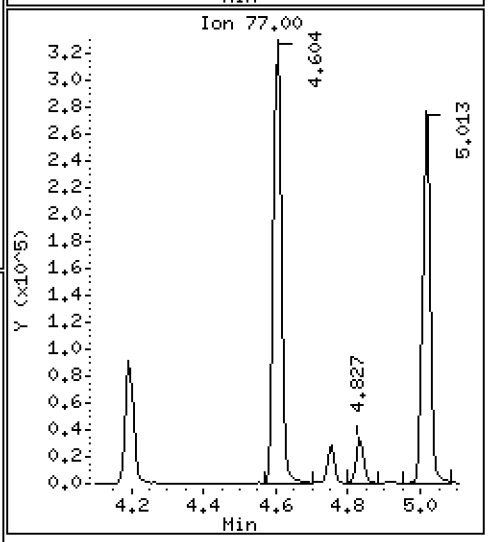












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 72

Date : 25-OCT-2016 01:14

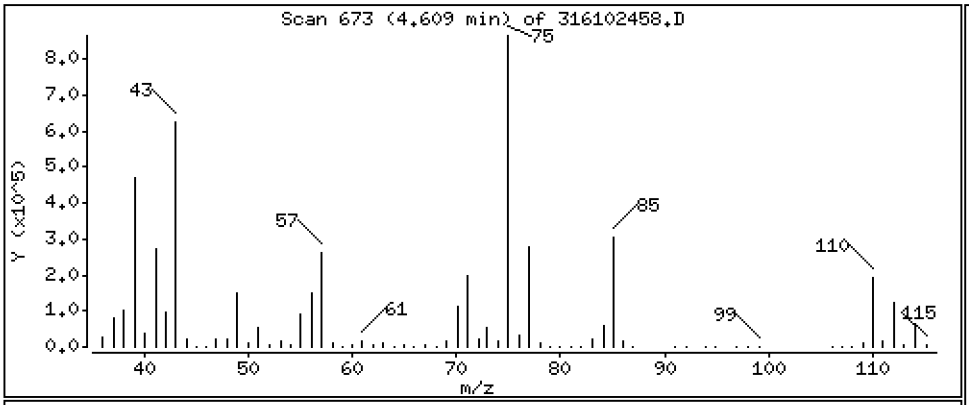
Client ID: Instrument: ms03.i

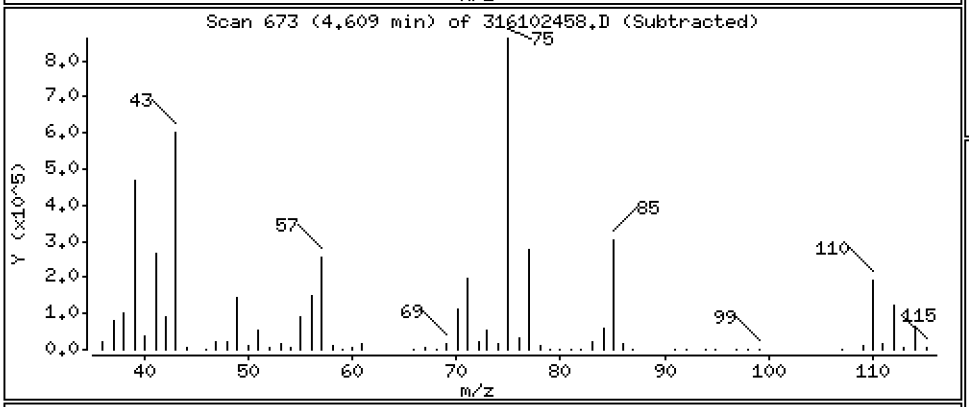
Sample Info: 1238;;1;1;5;;;

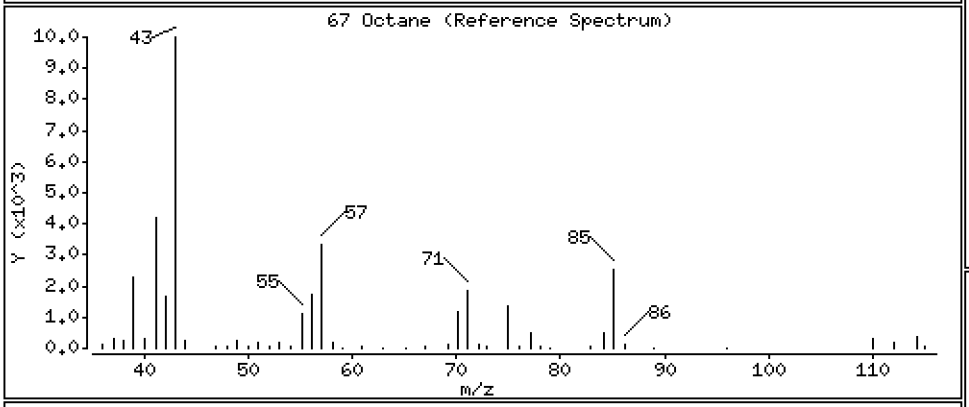
Purge Volume: 5.0 Operator: CJG

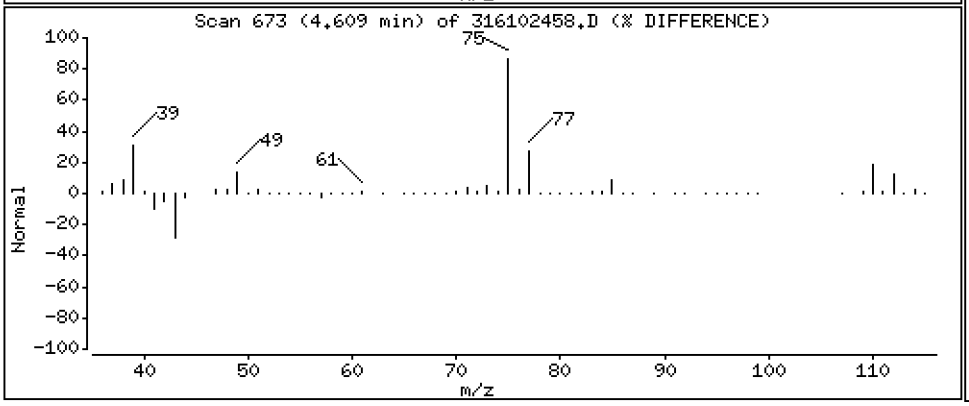
Column phase: DB-VRX Column diameter: 0.25

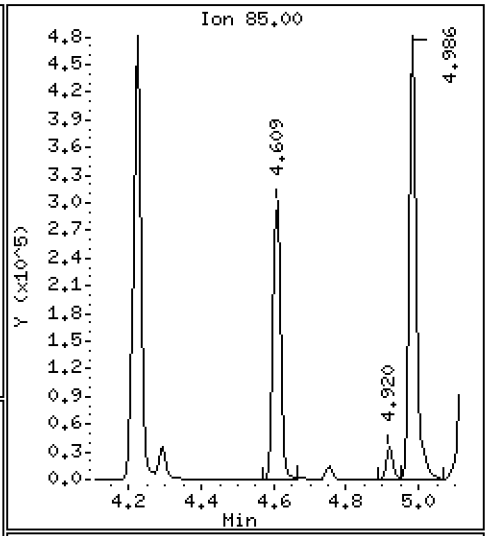
67 Octane Concentration: 101.709 ug/L

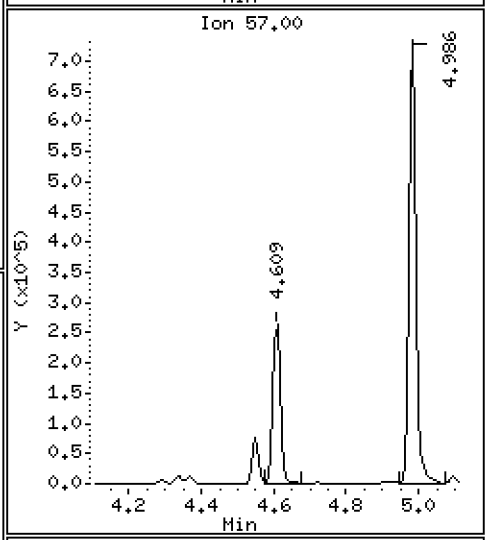


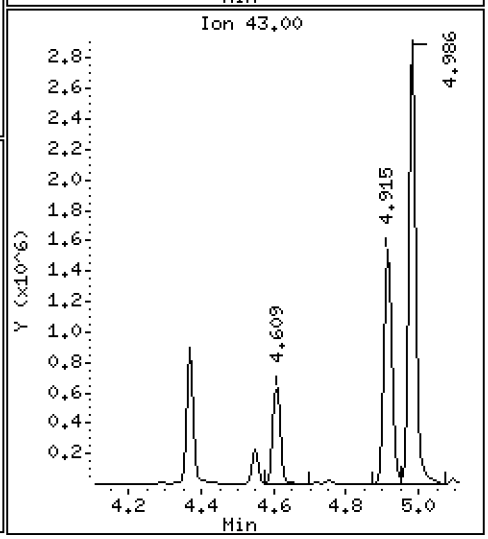












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 73

Date : 25-OCT-2016 01:14

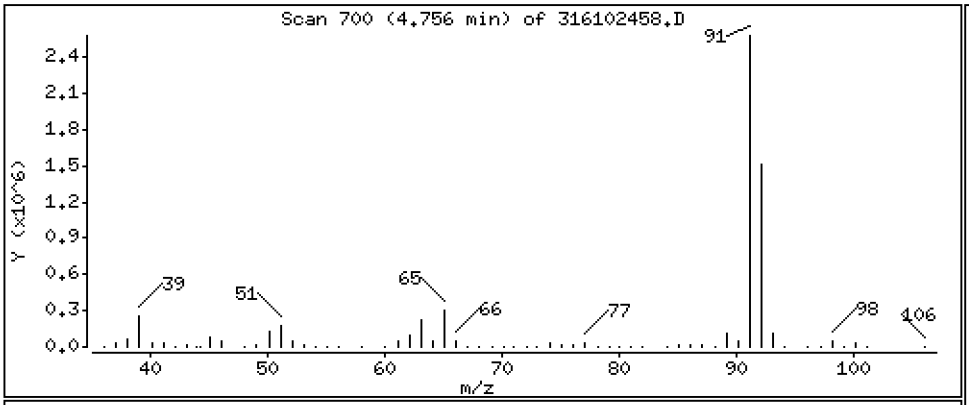
Client ID: Instrument: ms03.i

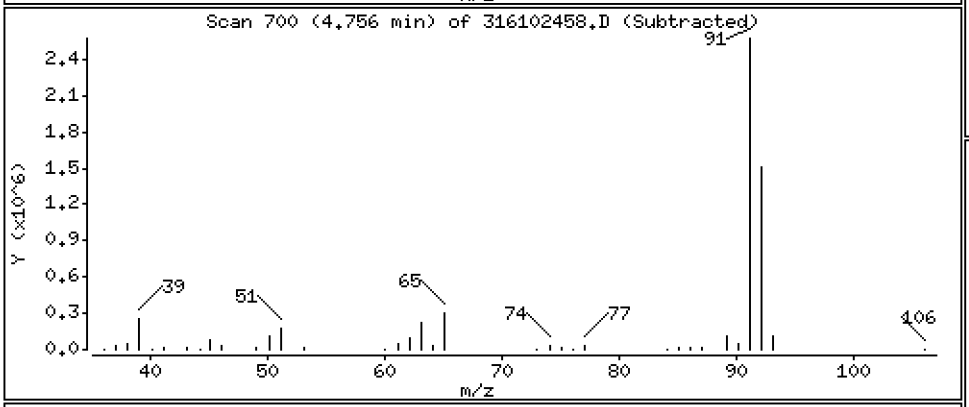
Sample Info: 1238;;1;1;5;;;

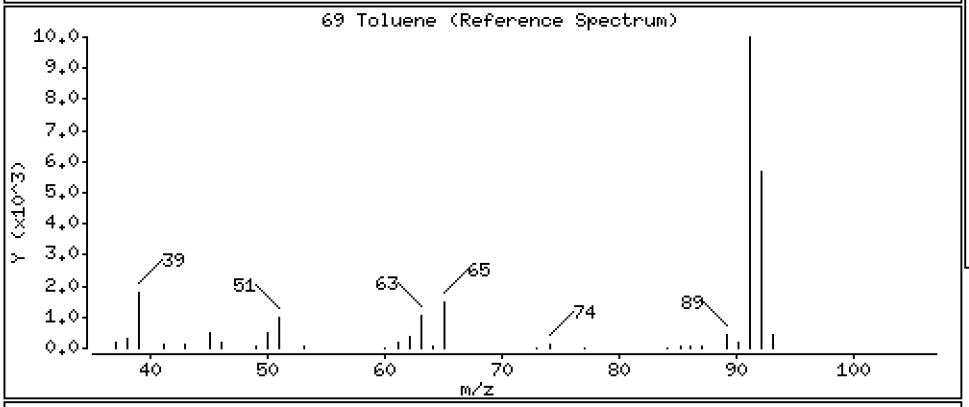
Purge Volume: 5.0 Operator: CJG

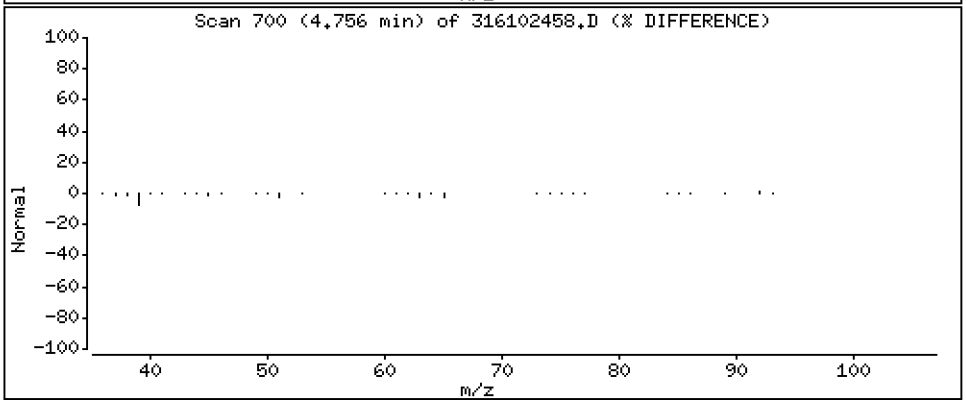
Column phase: DB-VRX Column diameter: 0.25

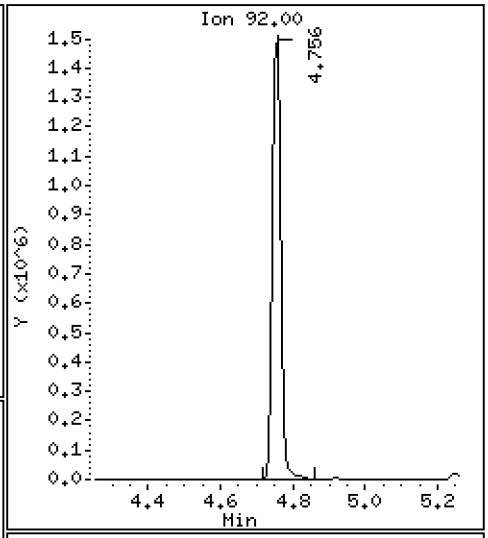
69 Toluene Concentration: 99.3807 ug/L

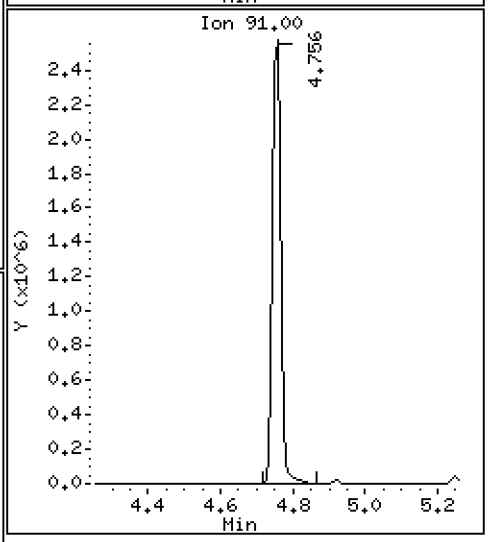












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 74

Date : 25-OCT-2016 01:14

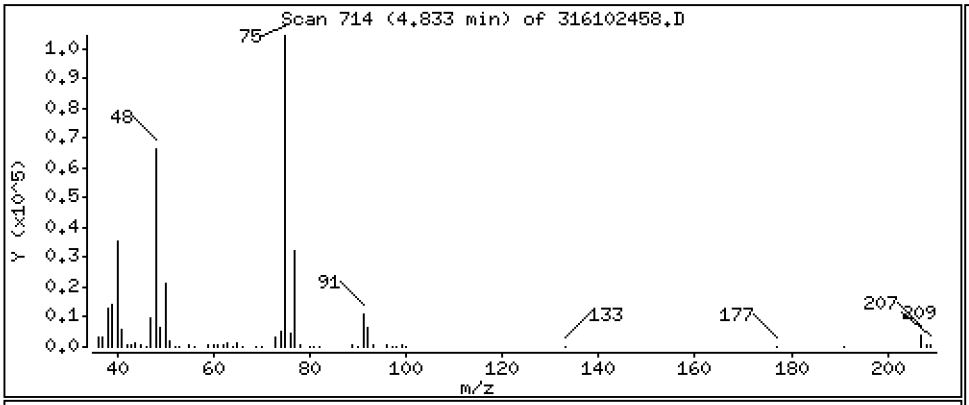
Client ID: Instrument: ms03.i

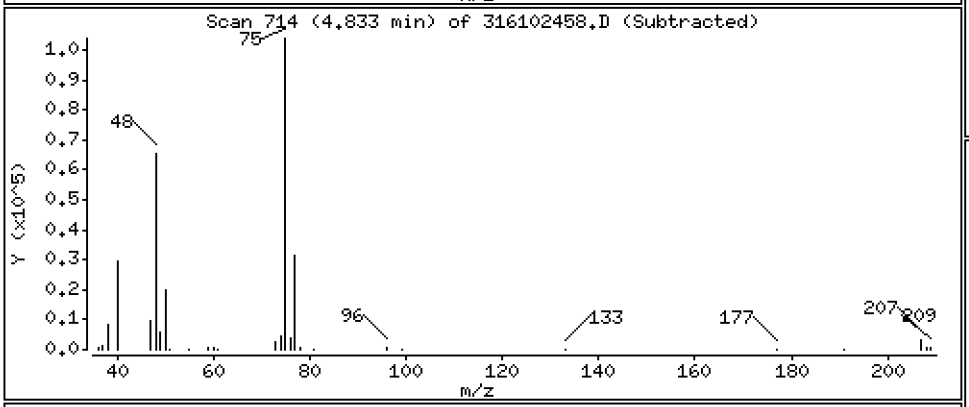
Sample Info: 1238;;1;1;5;;;

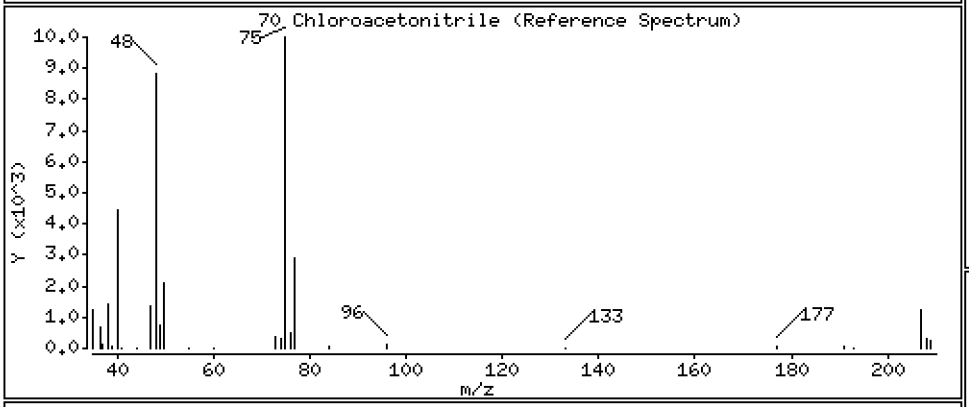
Purge Volume: 5.0 Operator: CJG

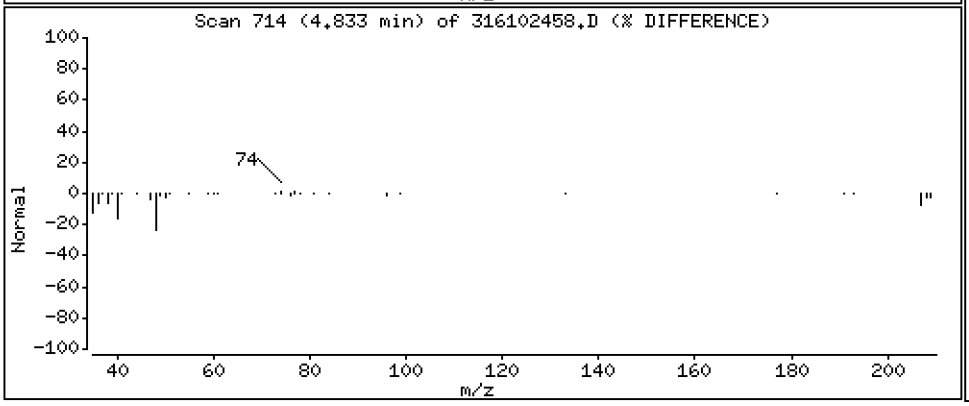
Column phase: DB-VRX Column diameter: 0.25

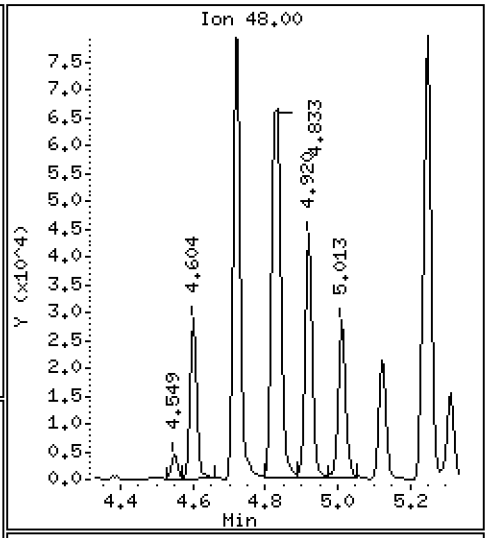
70 Chloroacetonitrile Concentration: 498.761 ug/L

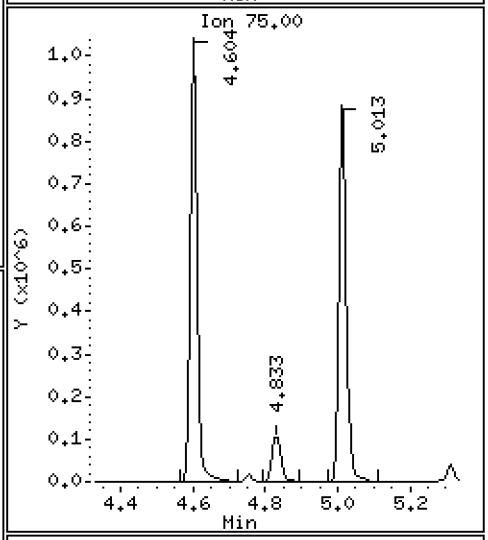


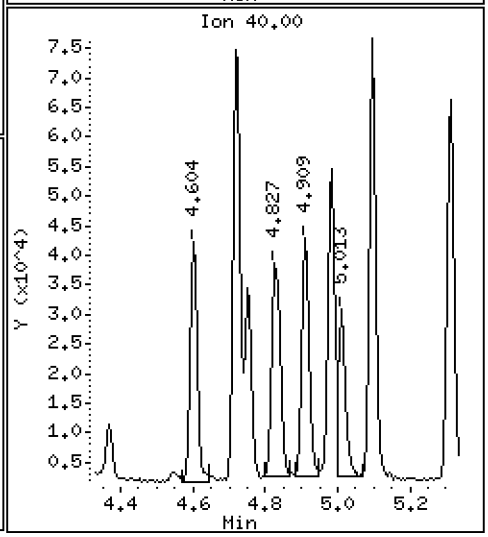












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 75

Date : 25-OCT-2016 01:14

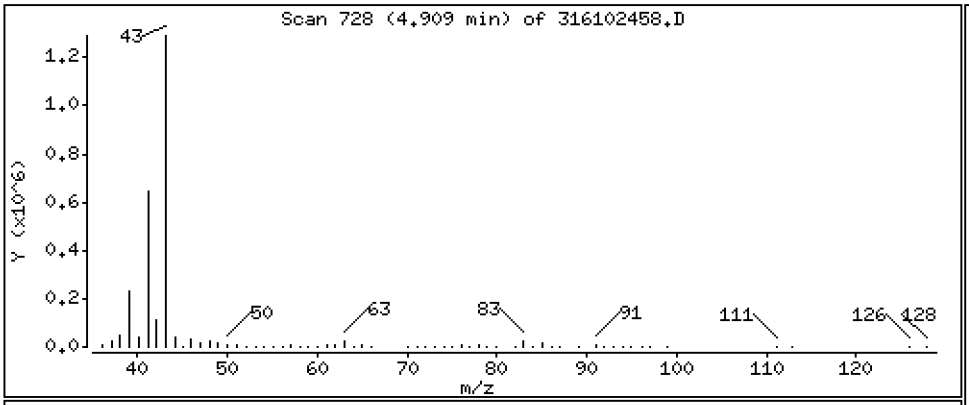
Client ID: Instrument: ms03.i

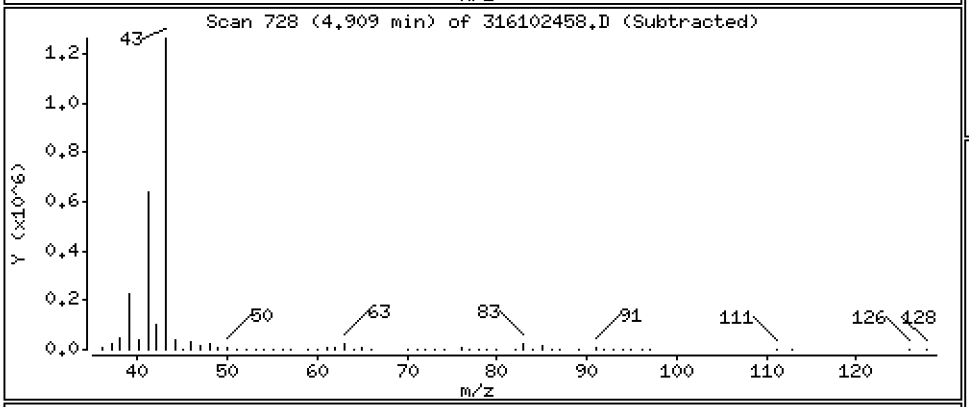
Sample Info: 1238;;1;1;5;;;

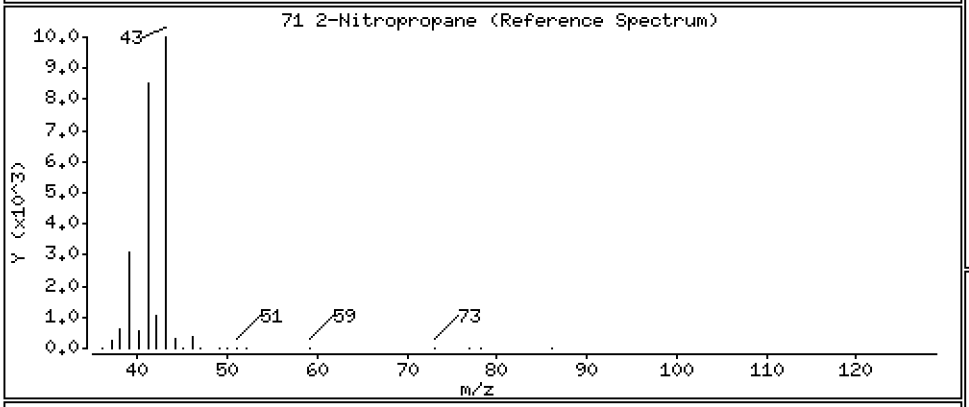
Purge Volume: 5.0 Operator: CJG

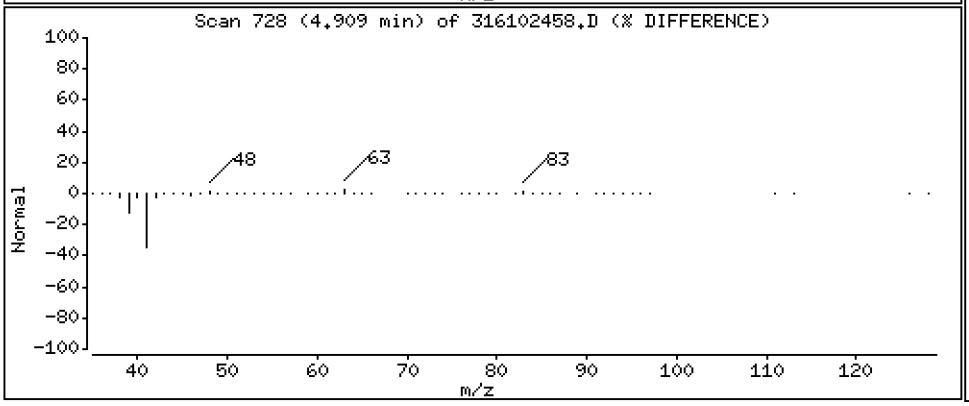
Column phase: DB-VRX Column diameter: 0.25

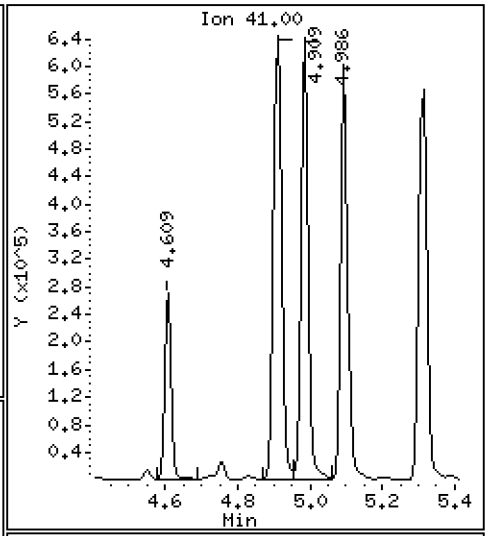
71 2-Nitropropane Concentration: 498.743 ug/L

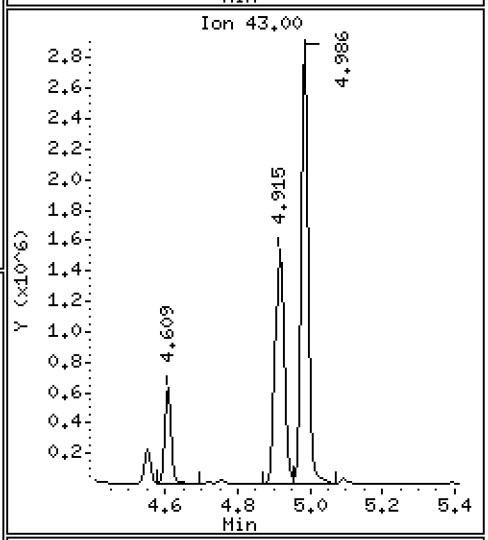


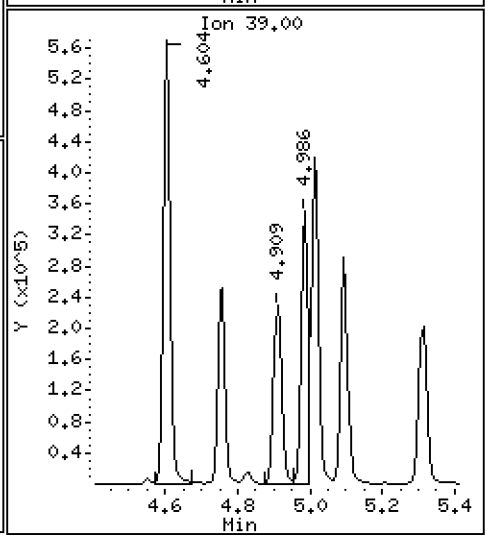












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 76

Date : 25-OCT-2016 01:14

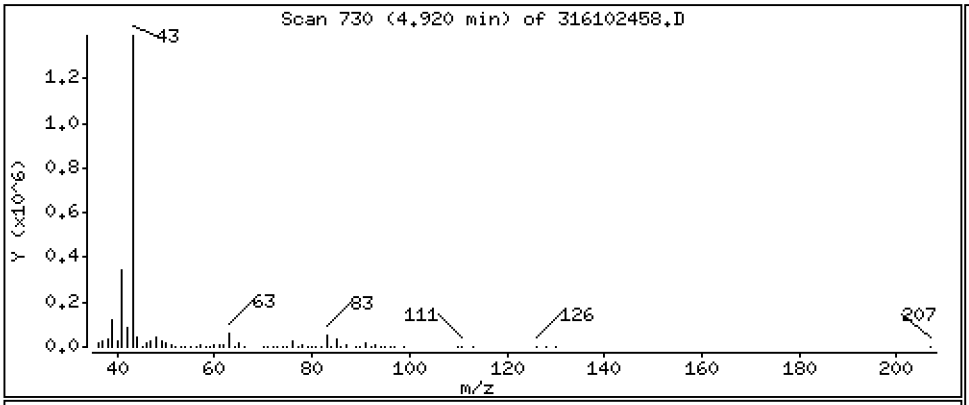
Client ID: Instrument: ms03.i

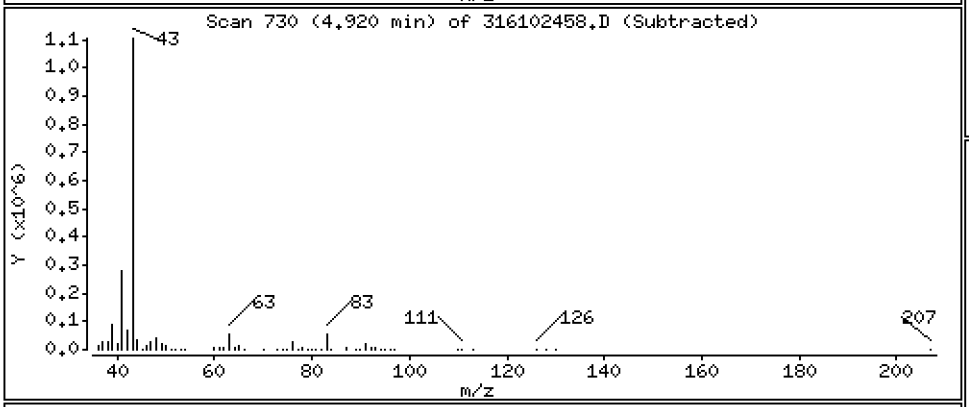
Sample Info: 1238;;1;1;5;;;

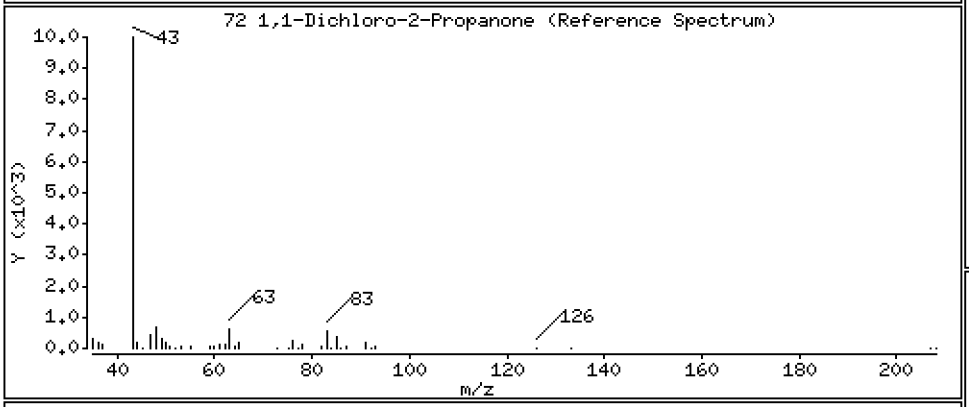
Purge Volume: 5.0 Operator: CJG

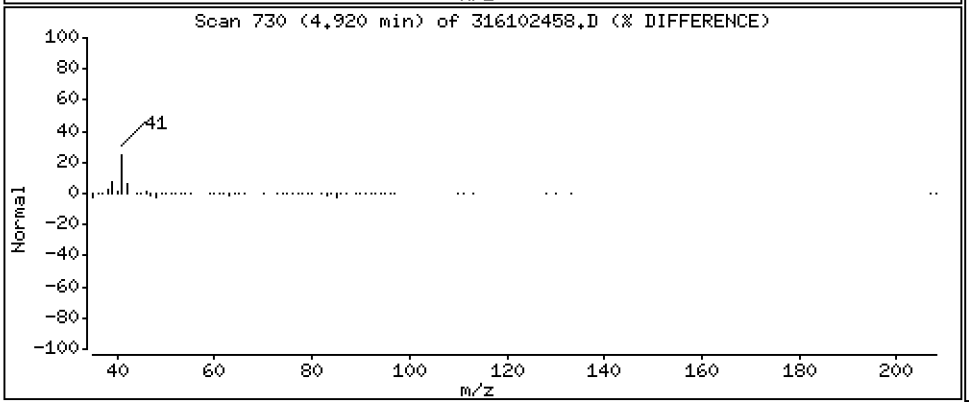
Column phase: DB-VRX Column diameter: 0.25

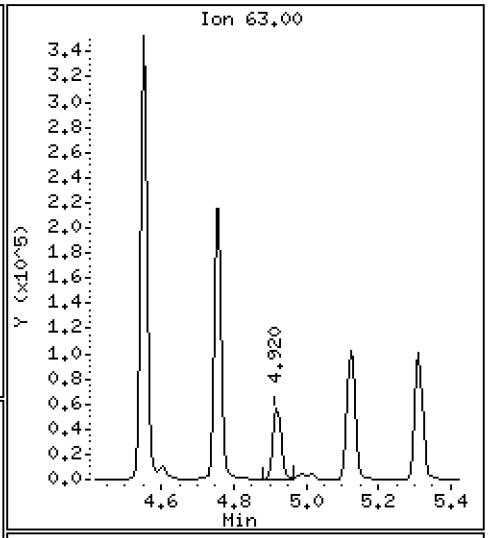
72 1,1-Dichloro-2-Propanone Concentration: 497.614 ug/L

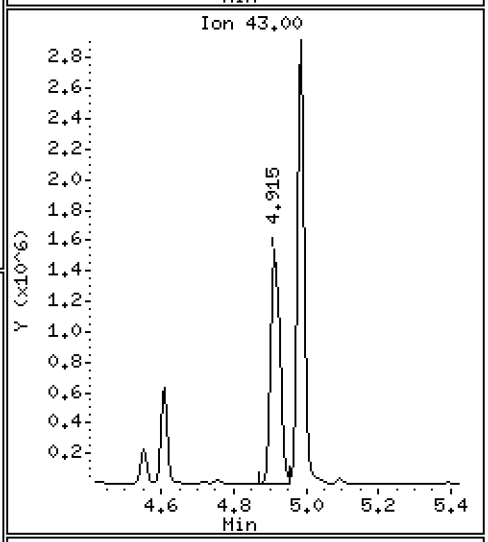


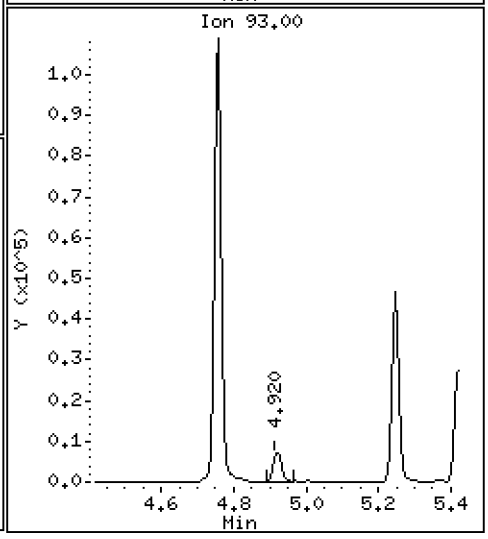












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 77

Date : 25-OCT-2016 01:14

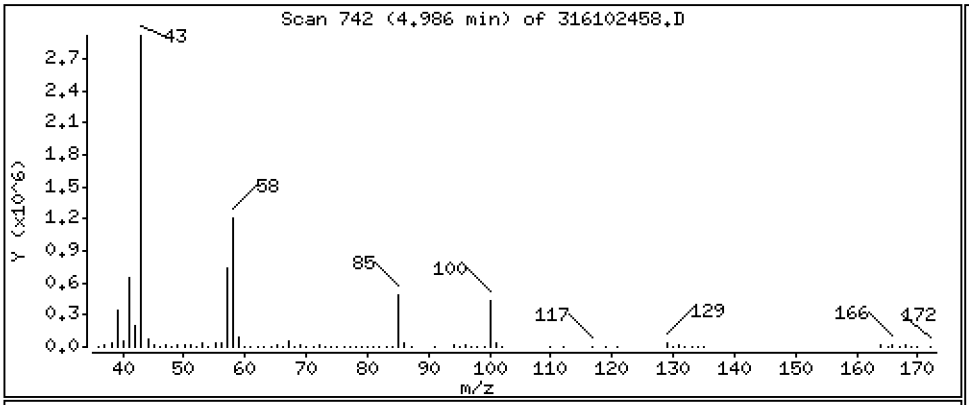
Client ID: Instrument: ms03.i

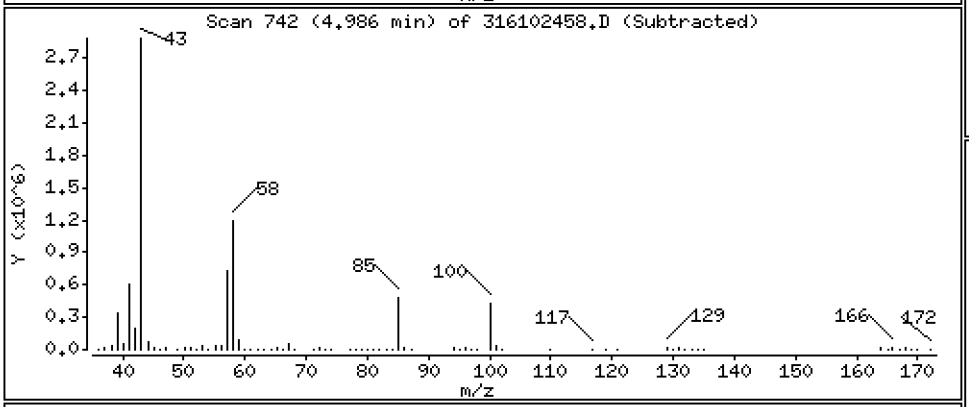
Sample Info: 1238;;1;1;5;;;

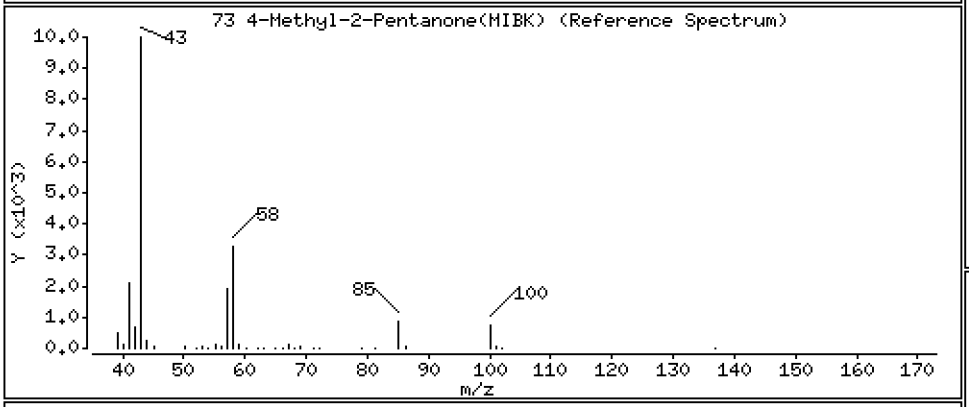
Purge Volume: 5.0 Operator: CJG

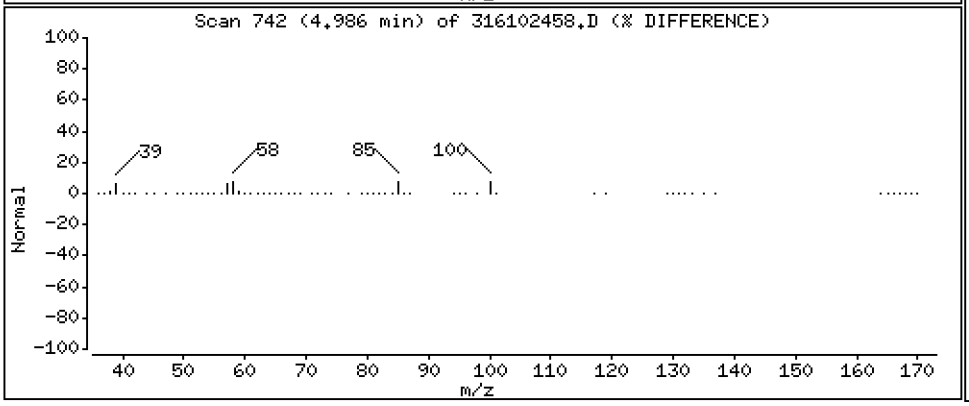
Column phase: DB-VRX Column diameter: 0.25

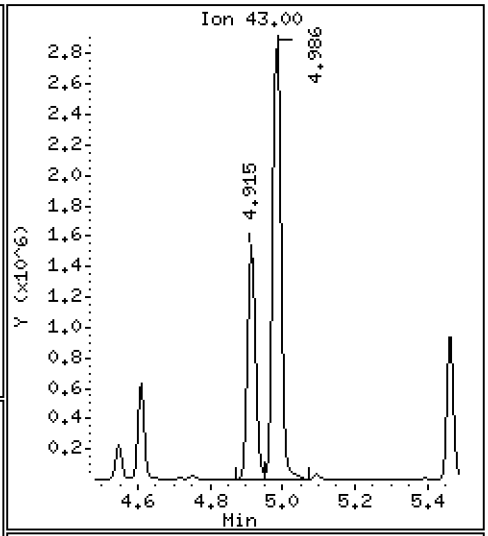
73 4-Methyl-2-Pentanone(MIBK) Concentration: 496.247 ug/L

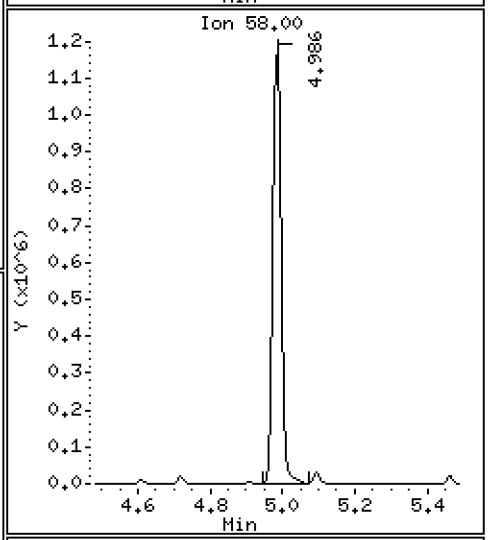


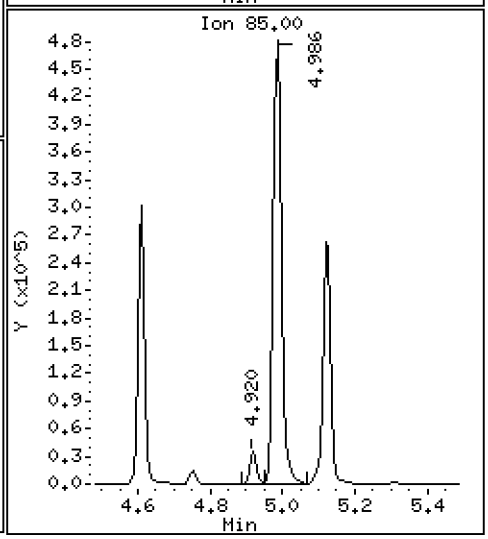












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 78

Date : 25-OCT-2016 01:14

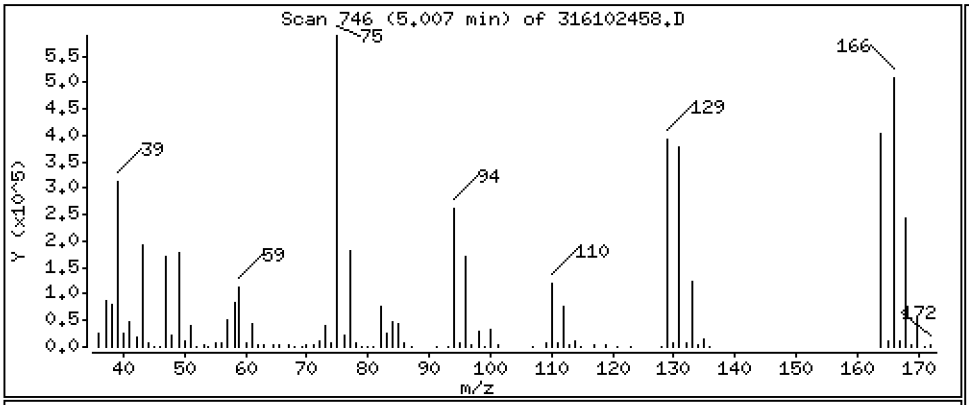
Client ID: Instrument: ms03.i

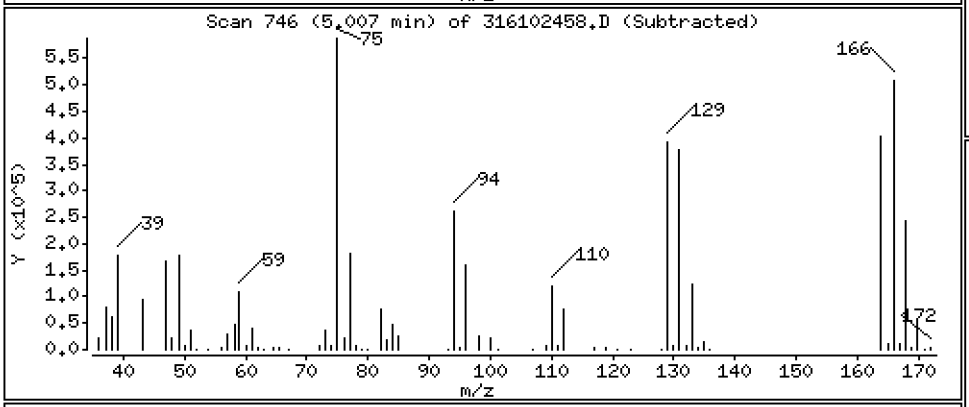
Sample Info: 1238;;1;1;5;;;

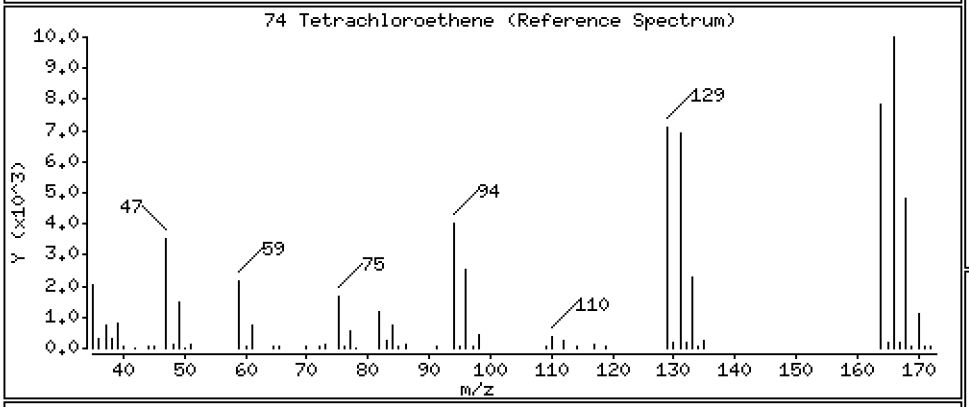
Purge Volume: 5.0 Operator: CJG

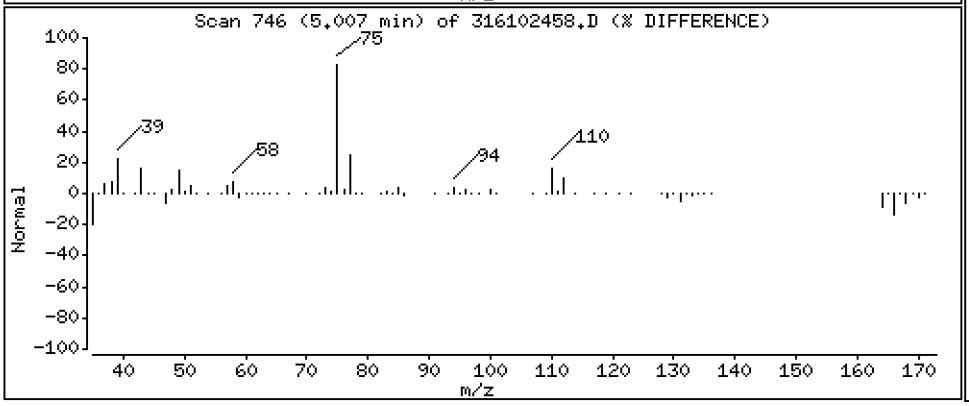
Column phase: DB-VRX Column diameter: 0.25

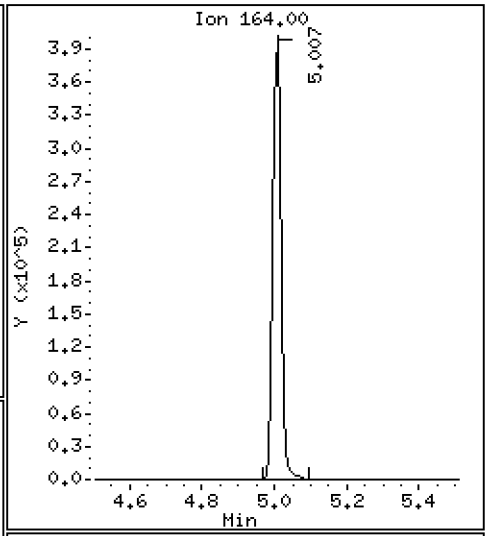
74 Tetrachloroethene Concentration: 98.5816 ug/L

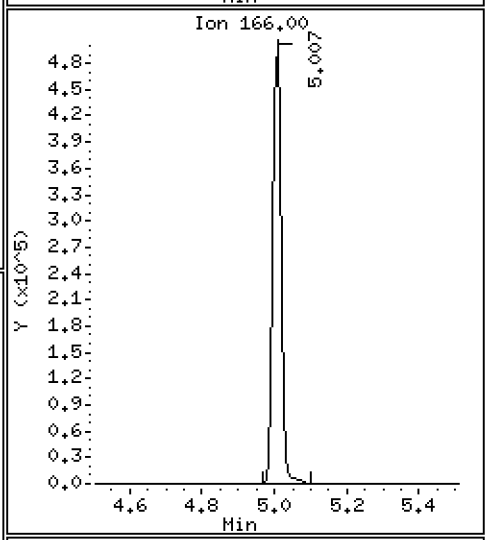


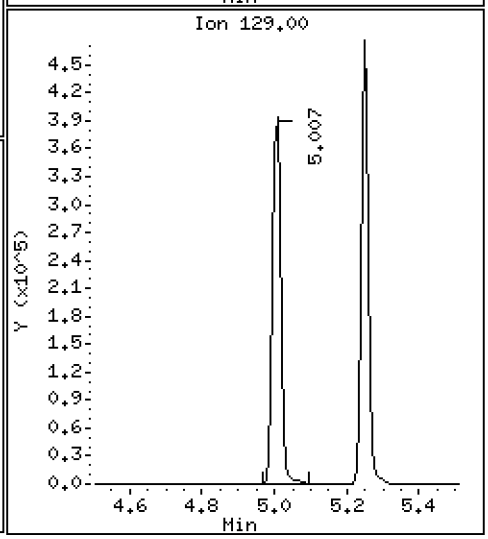












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 79

Date : 25-OCT-2016 01:14

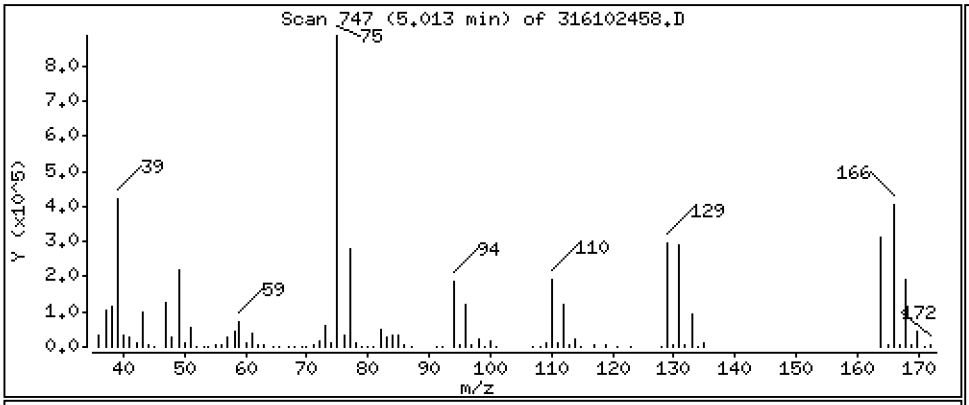
Client ID: Instrument: ms03.i

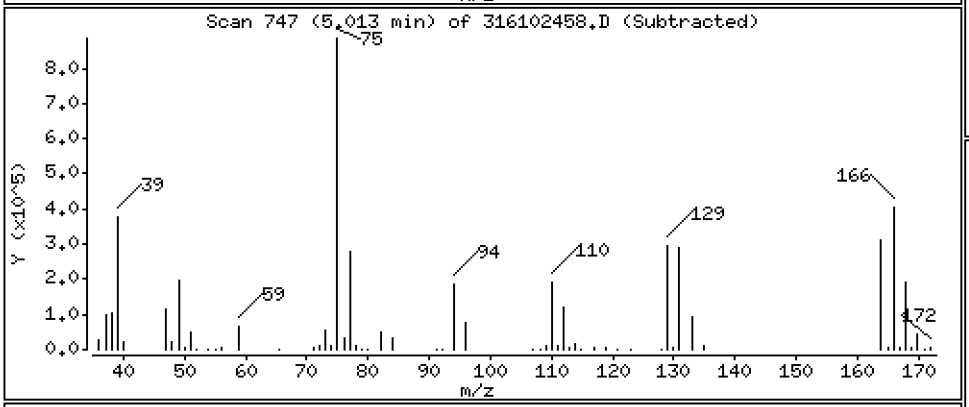
Sample Info: 1238;;1;1;5;;;

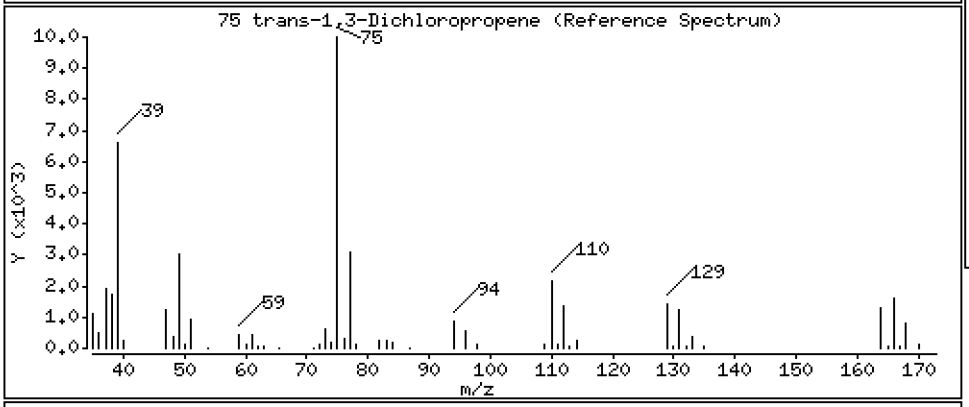
Purge Volume: 5.0 Operator: CJG

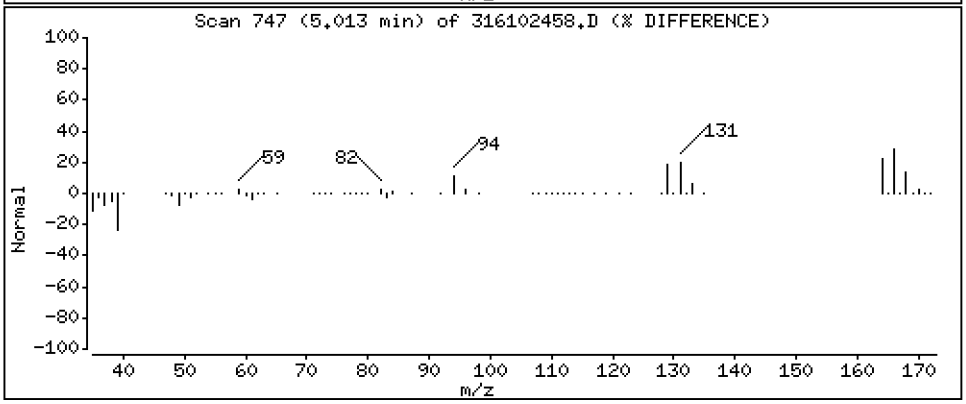
Column phase: DB-VRX Column diameter: 0.25

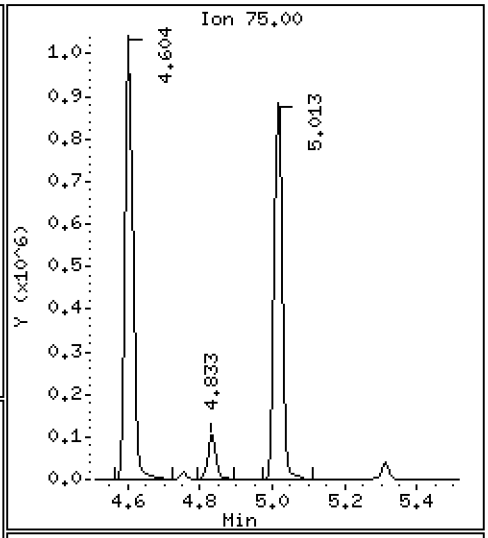
75 trans-1,3-Dichloropropene Concentration: 100.837 ug/L

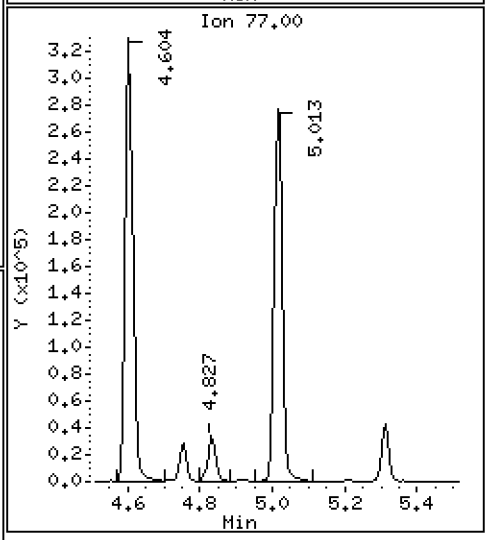












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 80

Date : 25-OCT-2016 01:14

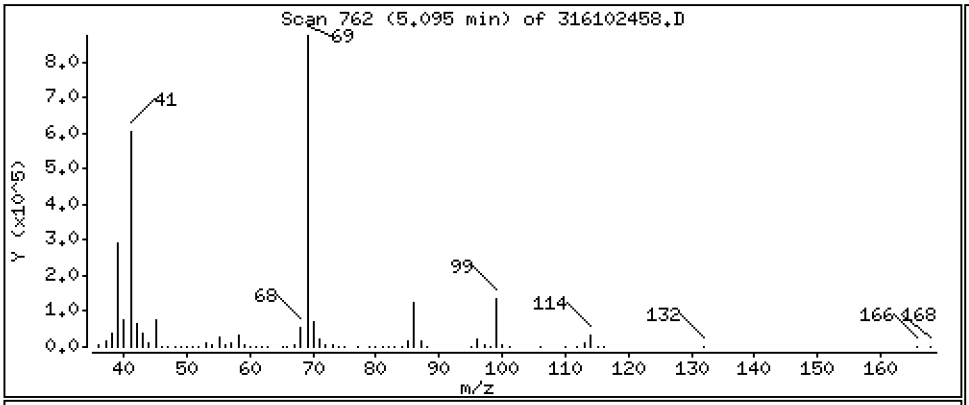
Client ID: Instrument: ms03.i

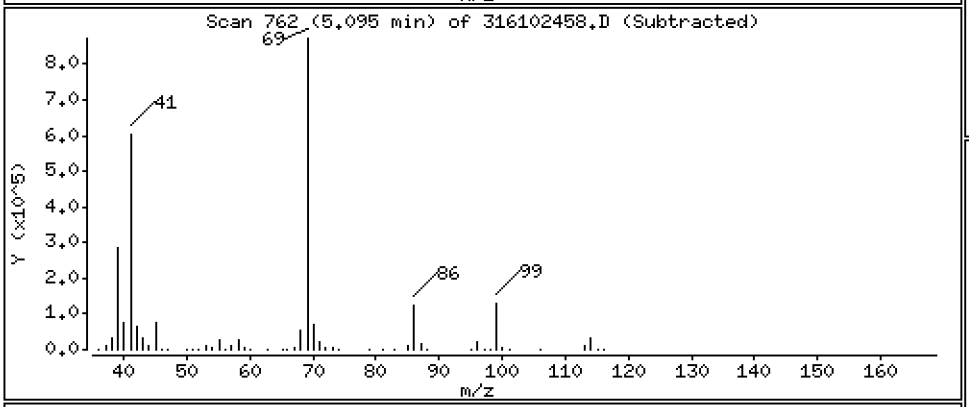
Sample Info: 1238;;1;1;5;;;

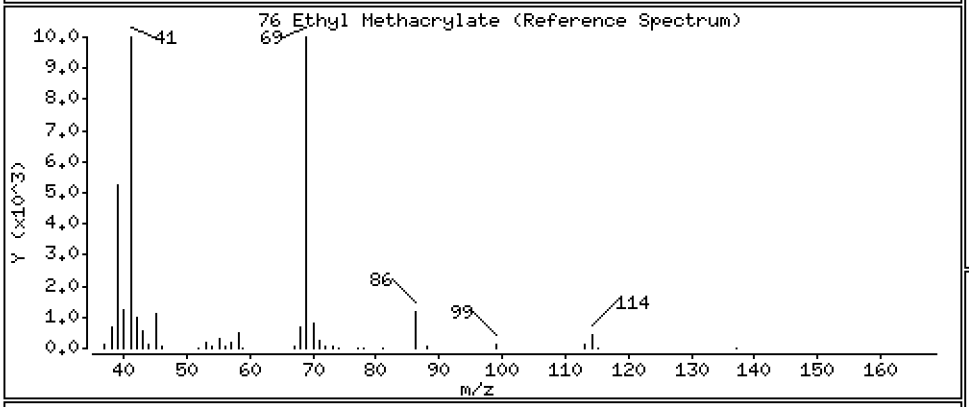
Purge Volume: 5.0 Operator: CJG

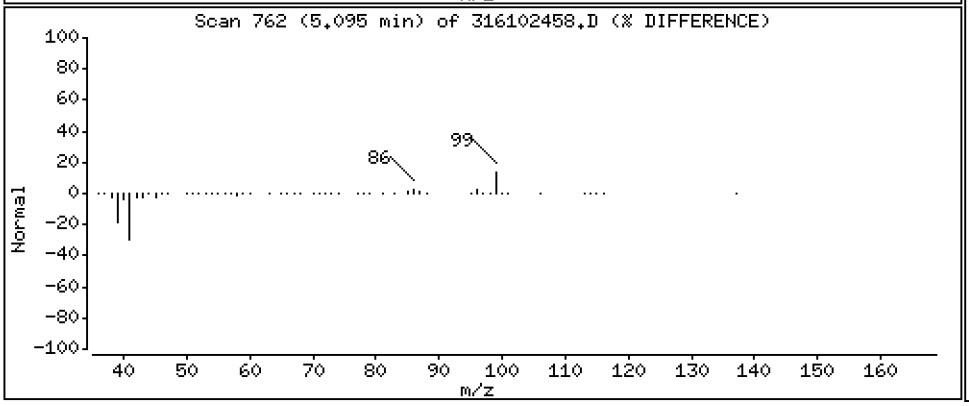
Column phase: DB-VRX Column diameter: 0.25

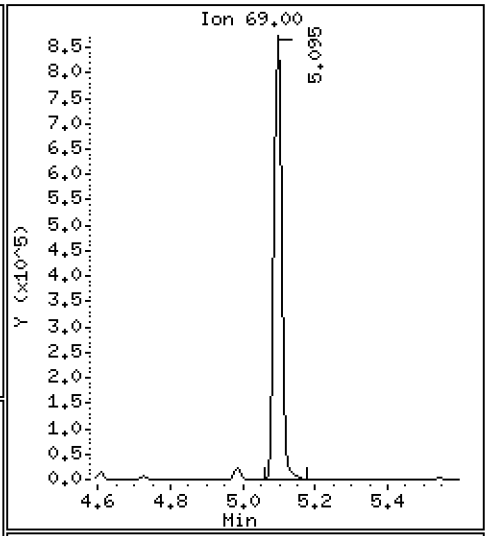
76 Ethyl Methacrylate Concentration: 100.367 ug/L

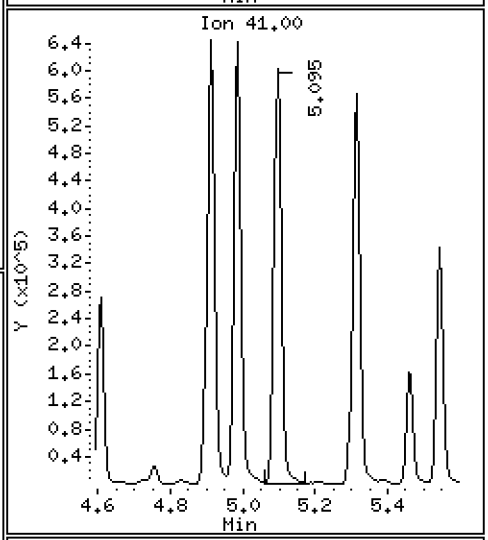


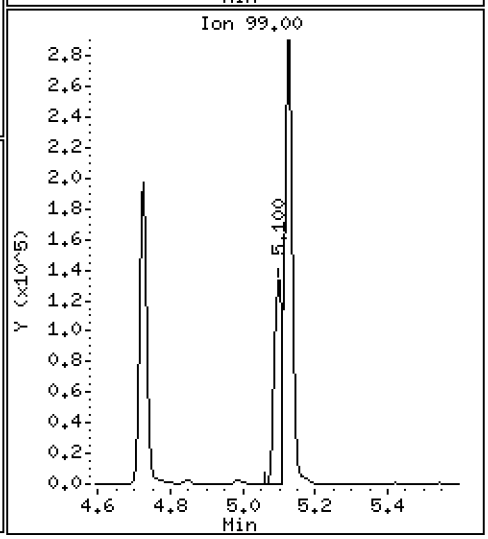












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 81

Date : 25-OCT-2016 01:14

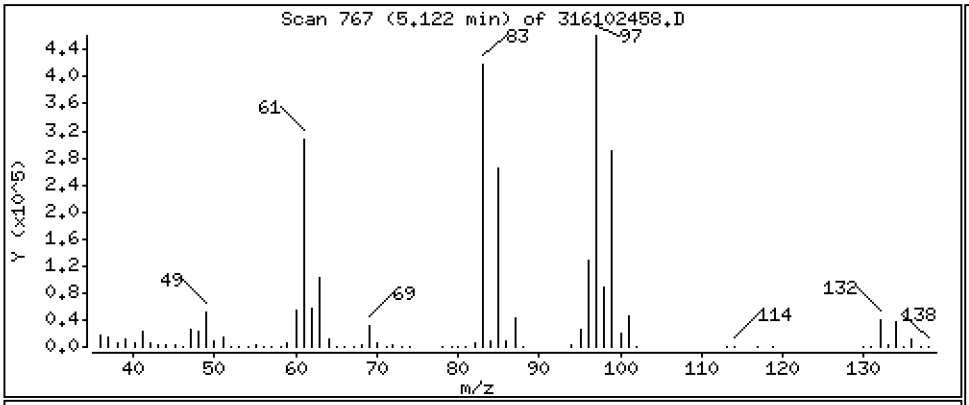
Client ID: Instrument: ms03.i

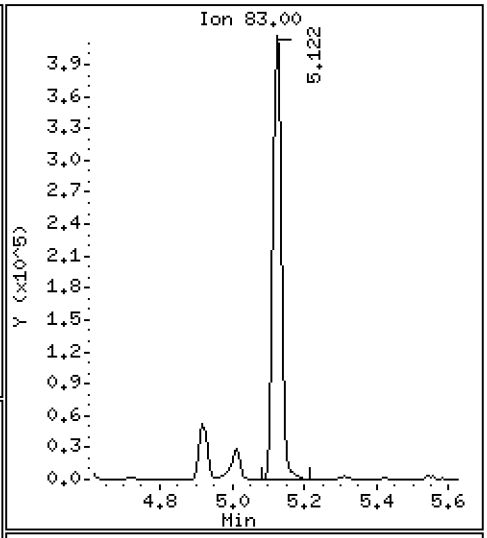
Sample Info: 1238;;1;1;5;;;

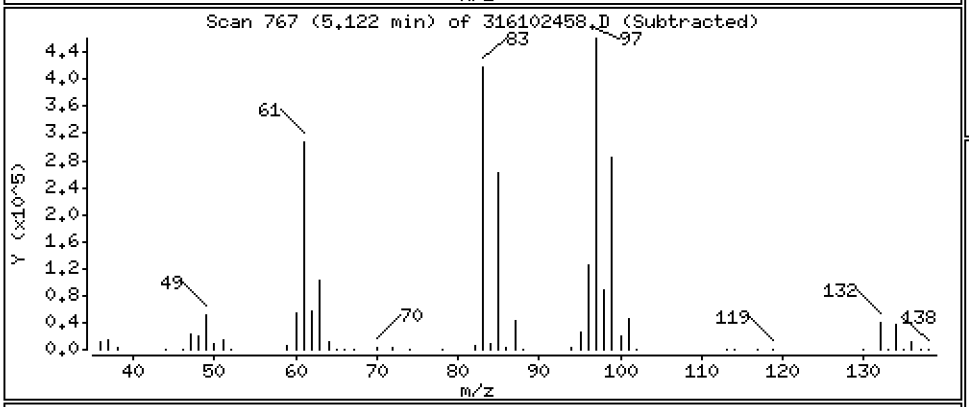
Purge Volume: 5.0 Operator: CJG

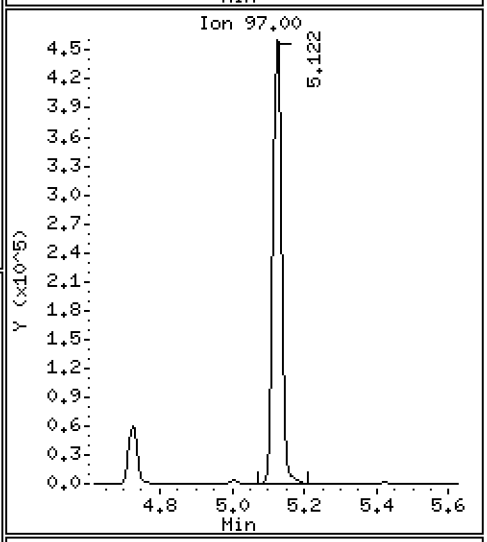
Column phase: DB-VRX Column diameter: 0.25

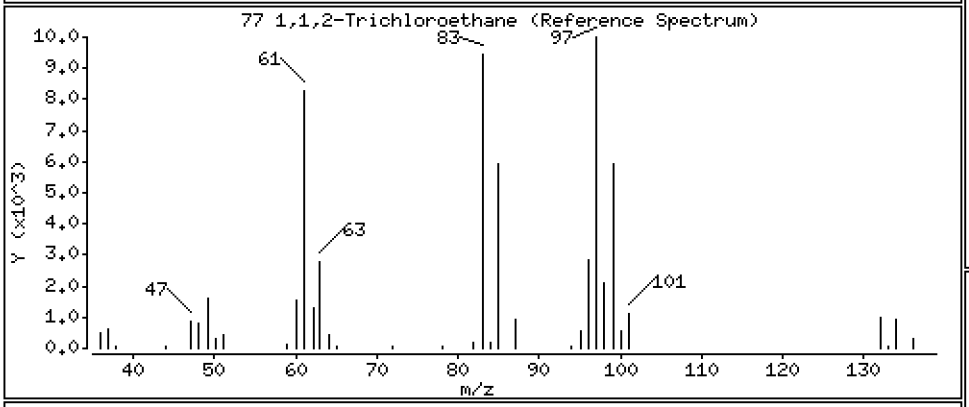
77 1,1,2-Trichloroethane Concentration: 99.3617 ug/L

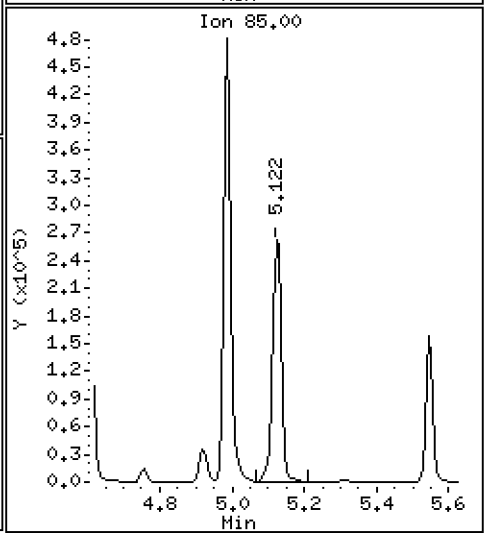


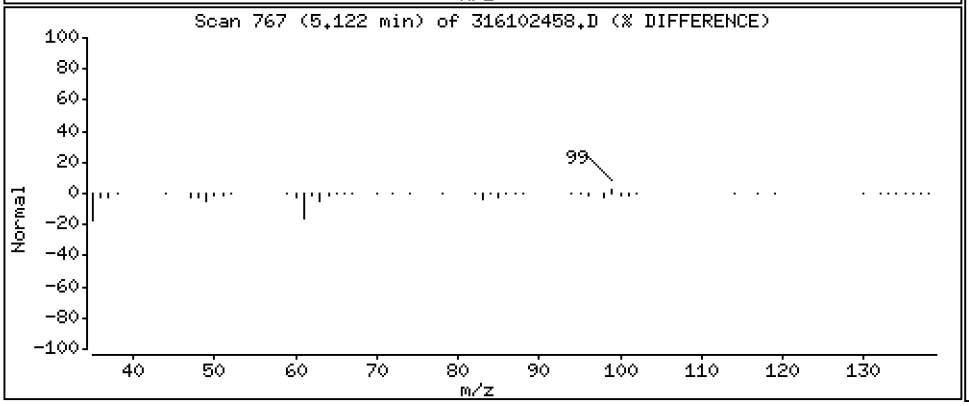












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 82

Date : 25-OCT-2016 01:14

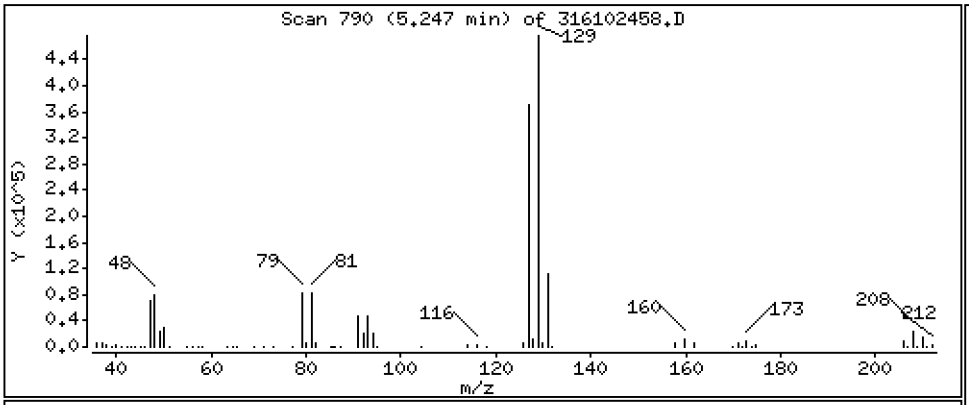
Client ID: Instrument: ms03.i

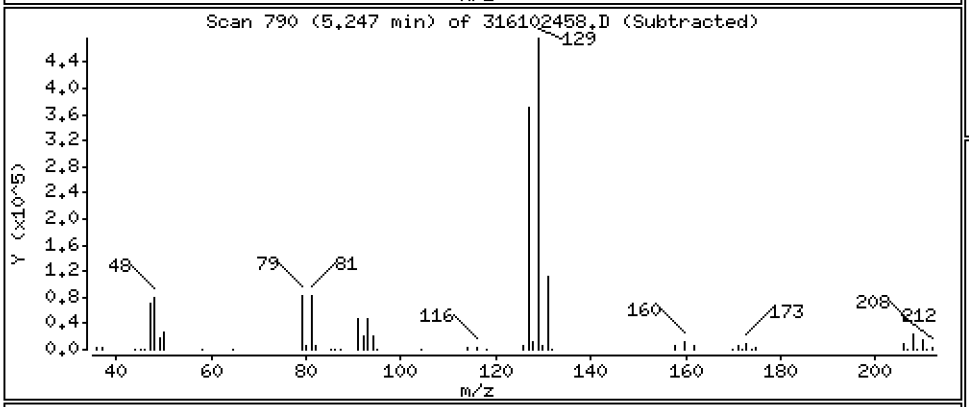
Sample Info: 1238;;1;1;5;;;

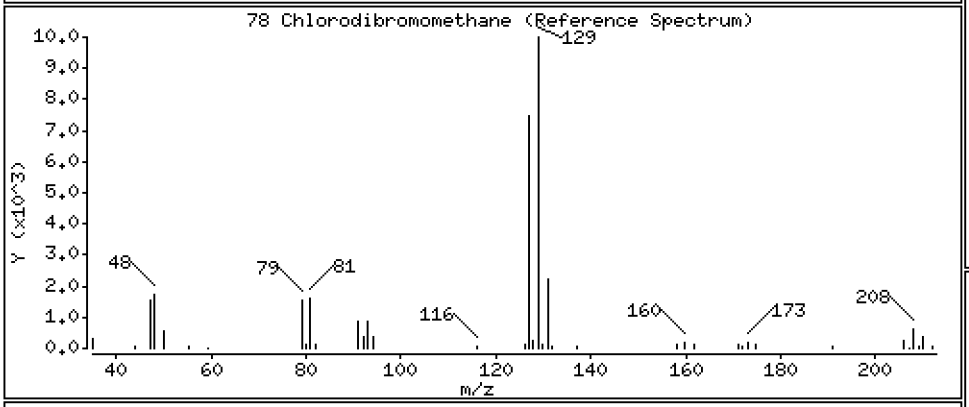
Purge Volume: 5.0 Operator: CJG

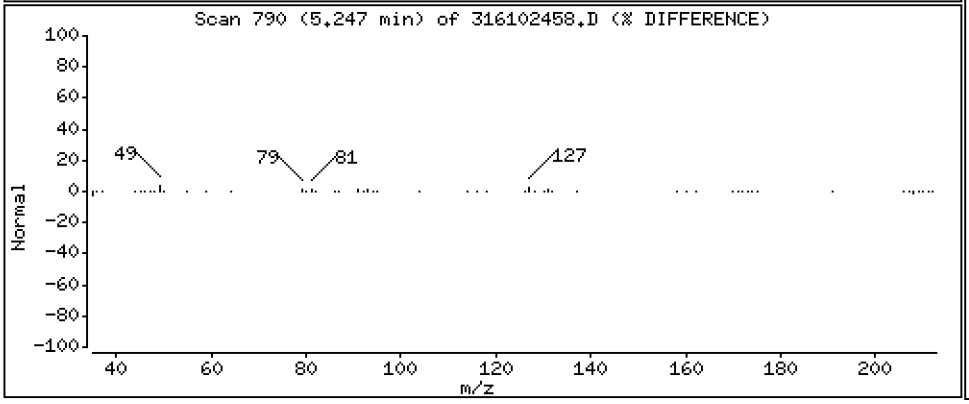
Column phase: DB-VRX Column diameter: 0.25

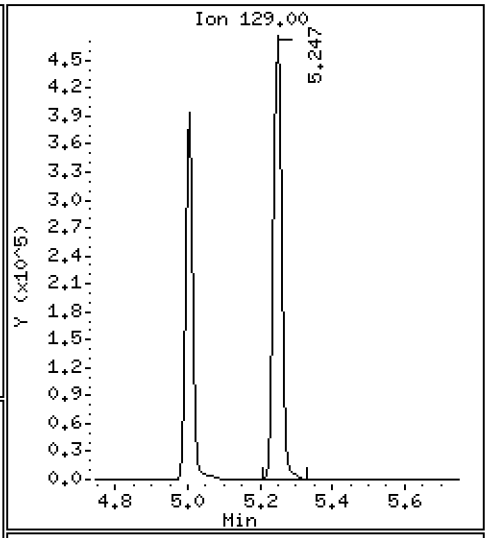
78 Chlorodibromomethane Concentration: 100.956 ug/L

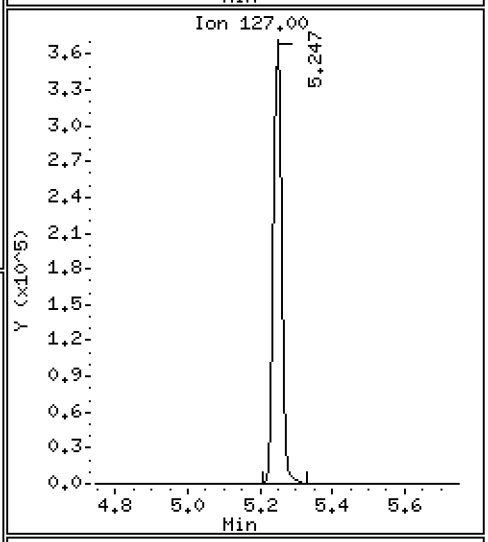


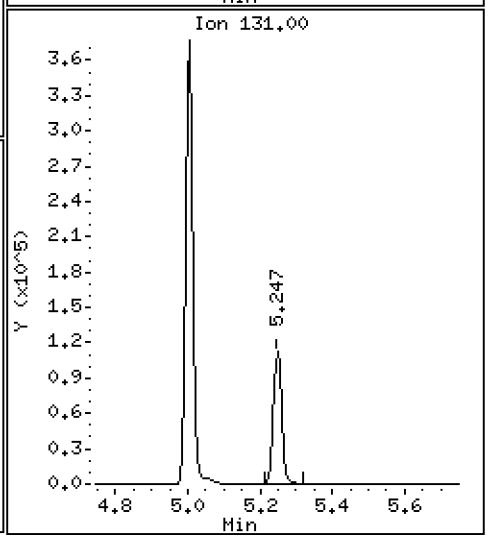












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 83

Date : 25-OCT-2016 01:14

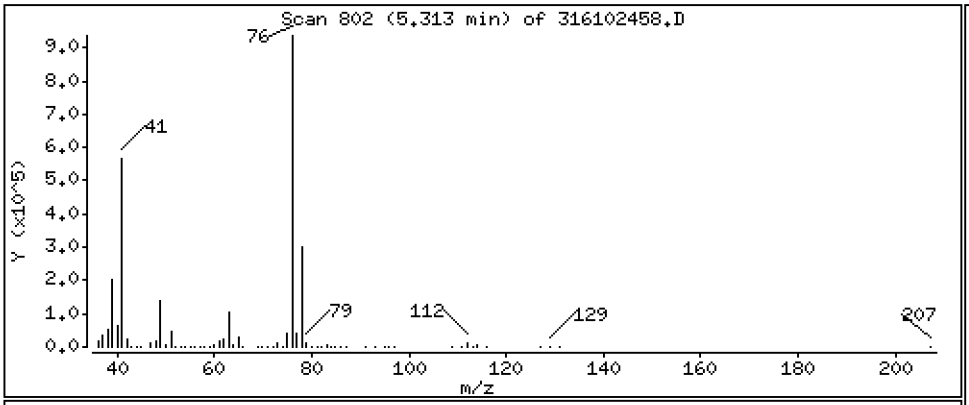
Client ID: Instrument: ms03.i

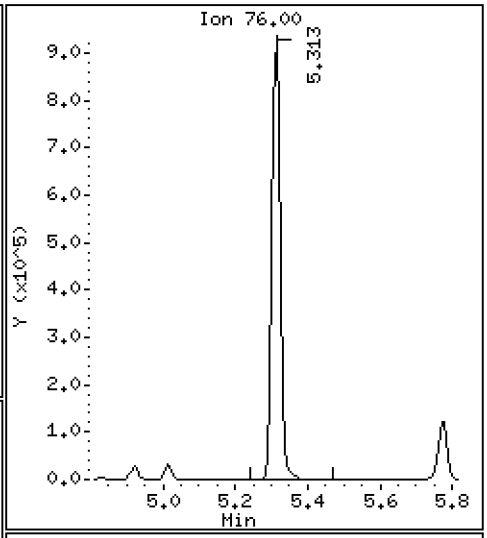
Sample Info: 1238;;1;1;5;;;

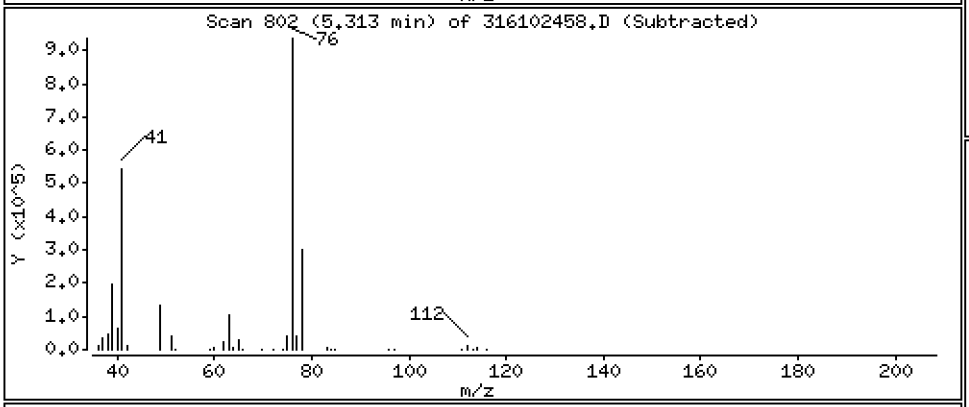
Purge Volume: 5.0 Operator: CJG

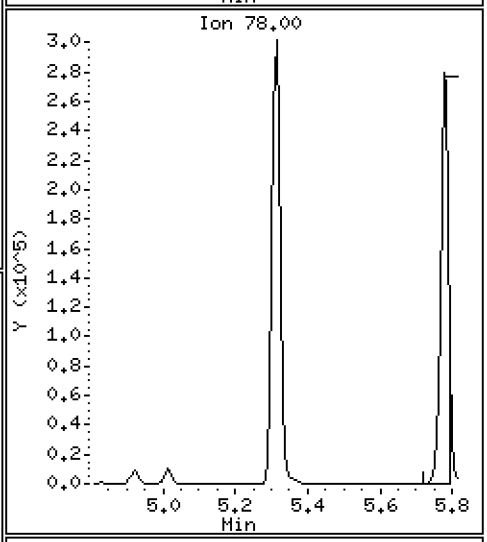
Column phase: DB-VRX Column diameter: 0.25

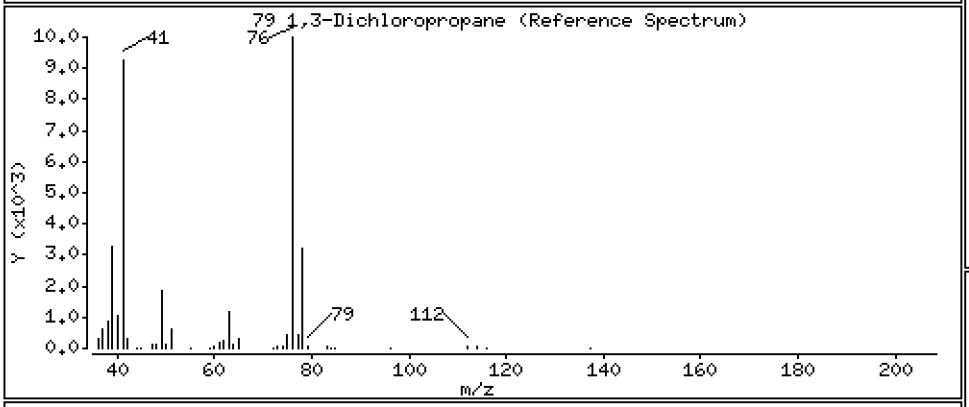
79 1,3-Dichloropropane Concentration: 99.3658 ug/L

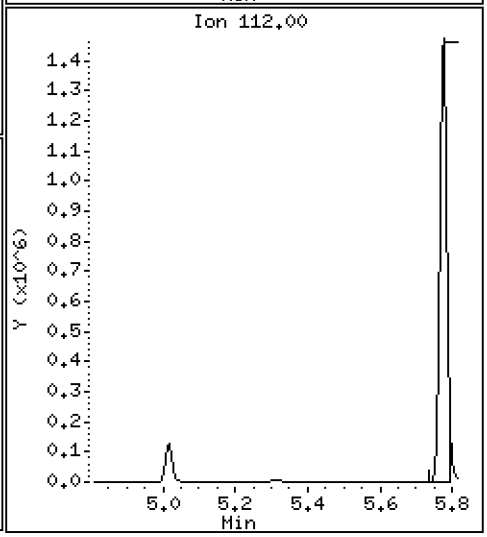


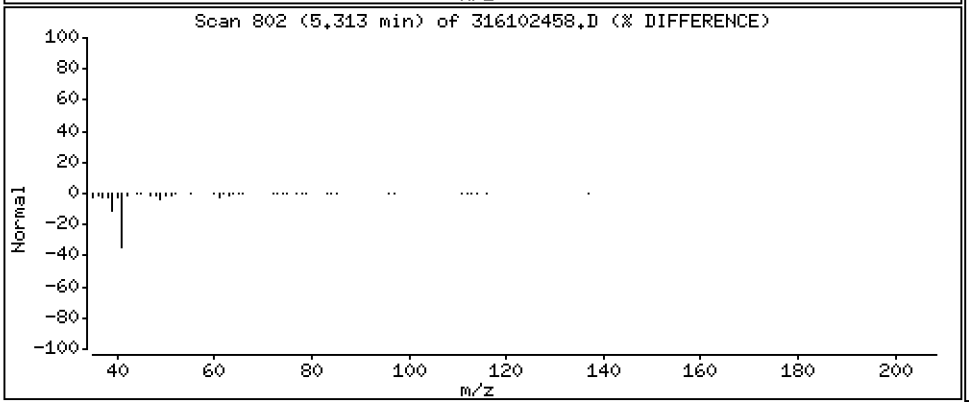












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 84

Date : 25-OCT-2016 01:14

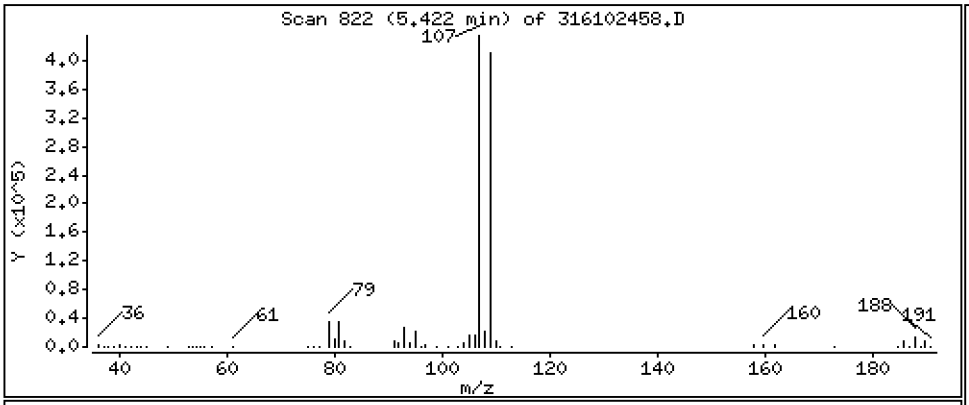
Client ID: Instrument: ms03.i

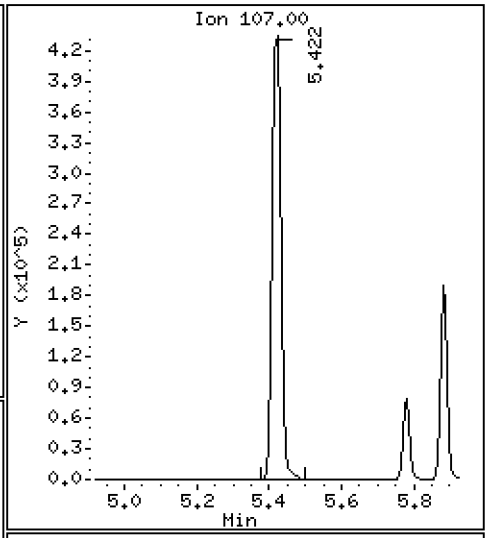
Sample Info: 1238;;1;1;5;;;

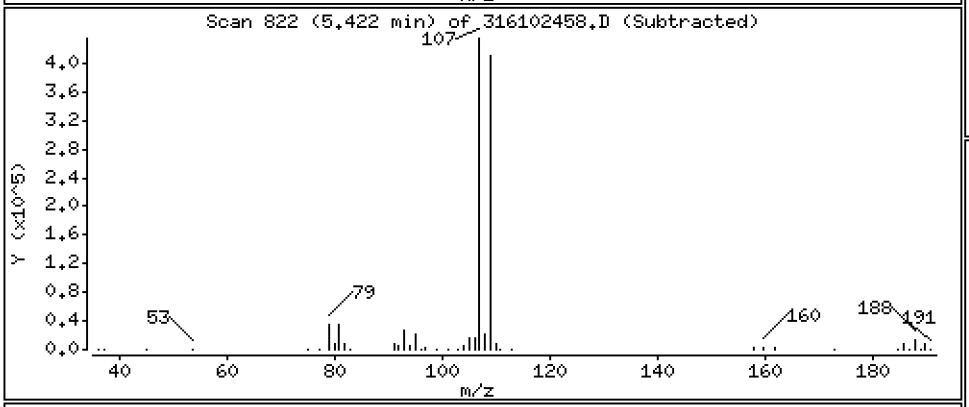
Purge Volume: 5.0 Operator: CJG

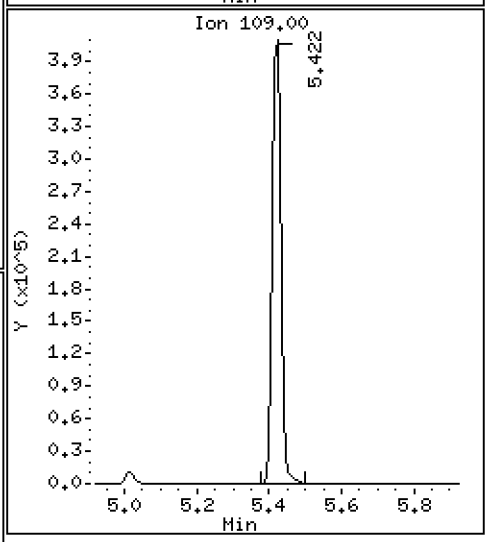
Column phase: DB-VRX Column diameter: 0.25

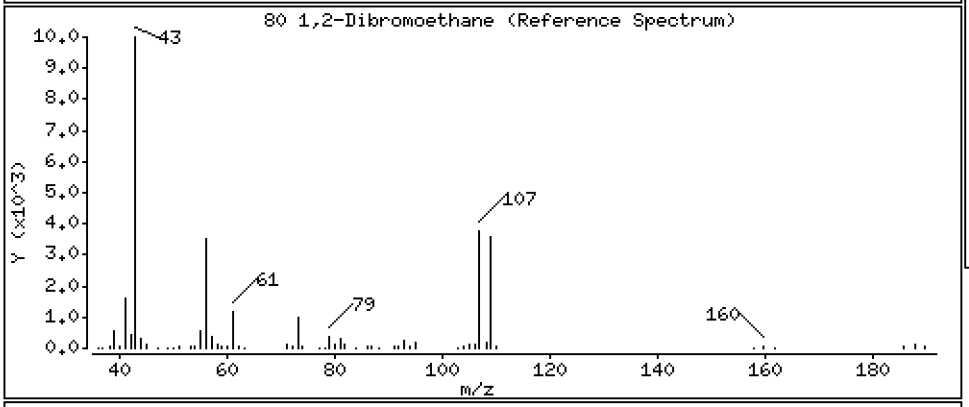
80 1,2-Dibromoethane Concentration: 99.9865 ug/L

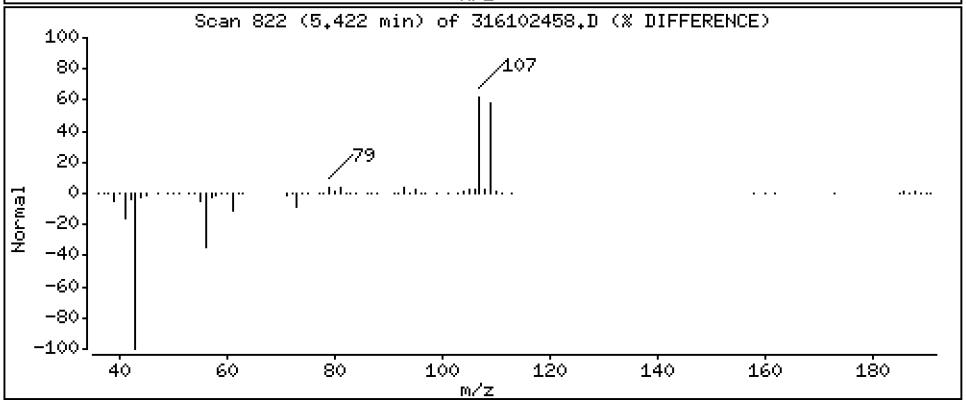












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 85

Date : 25-OCT-2016 01:14

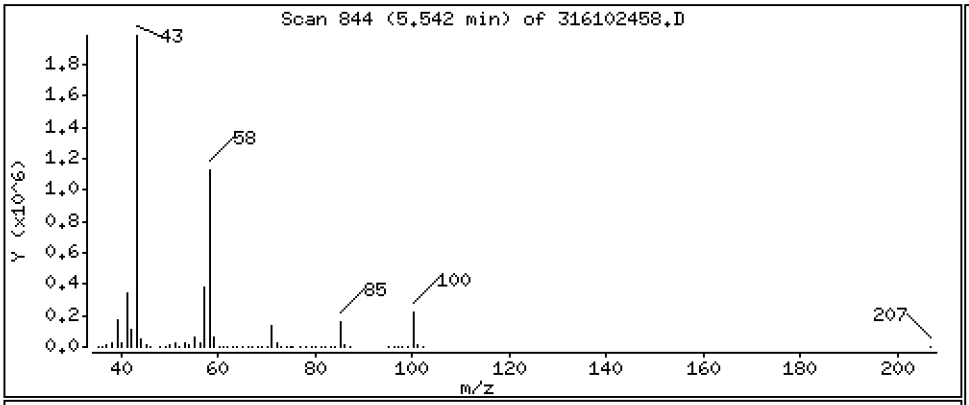
Client ID: Instrument: ms03.i

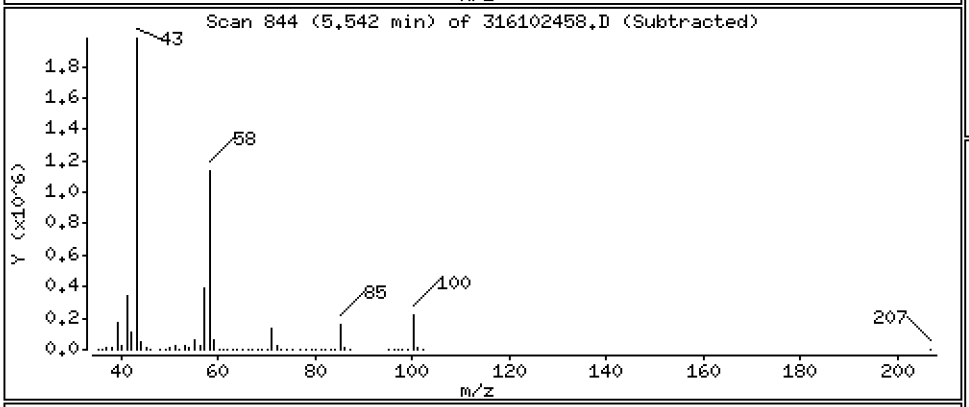
Sample Info: 1238;;1;1;5;;;

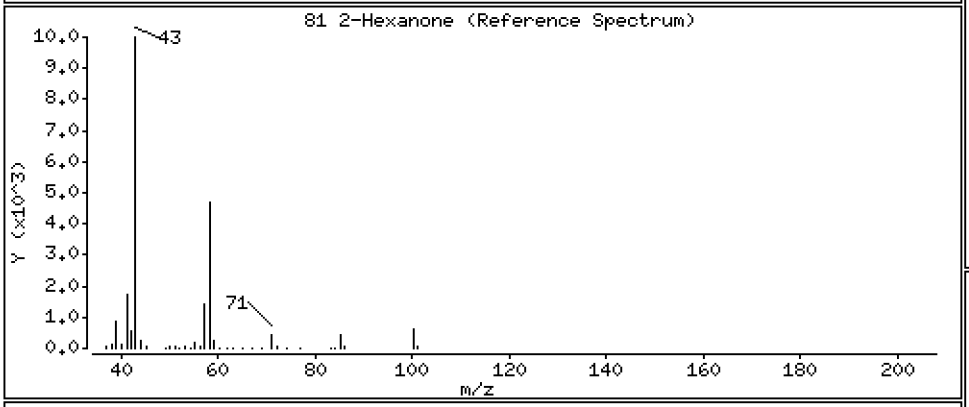
Purge Volume: 5.0 Operator: CJG

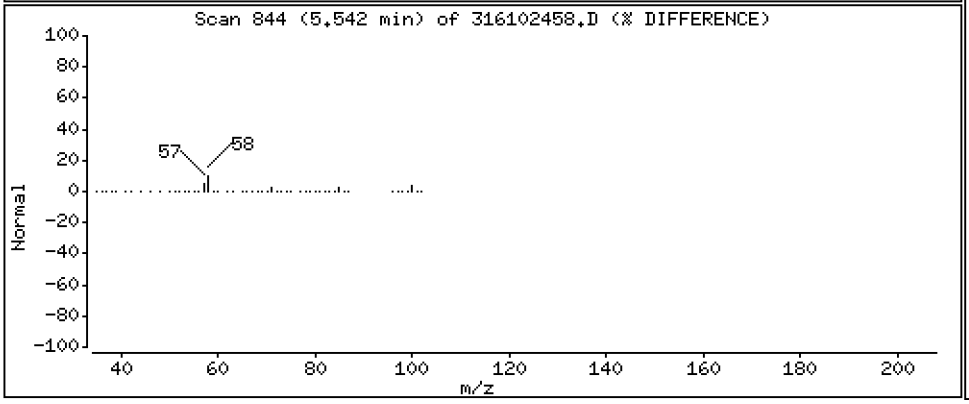
Column phase: DB-VRX Column diameter: 0.25

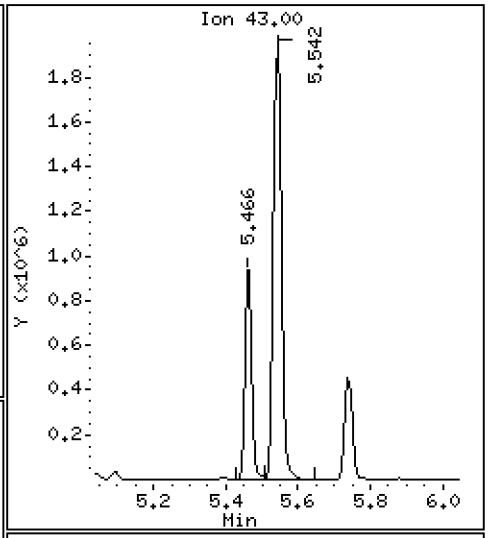
81 2-Hexanone Concentration: 498.469 ug/L

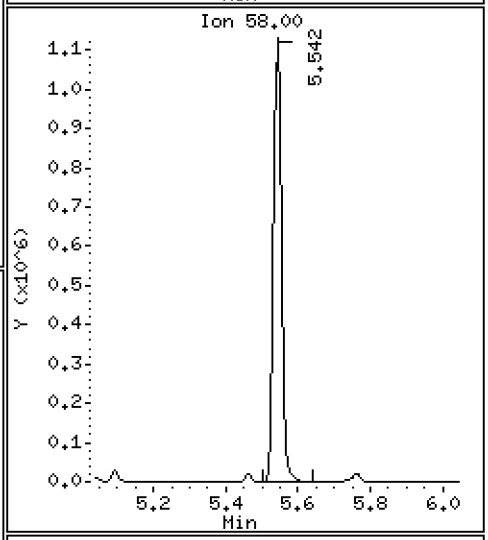


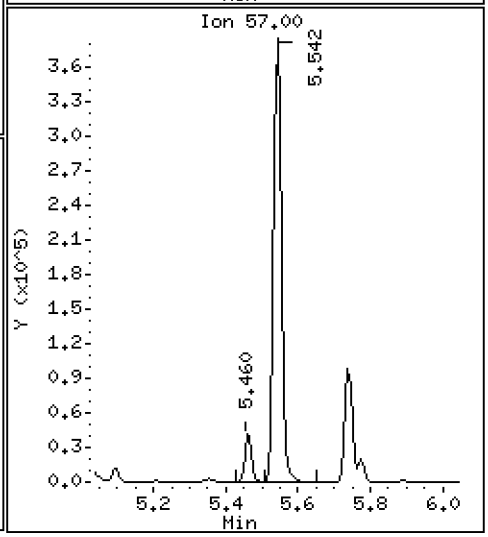












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 86

Date : 25-OCT-2016 01:14

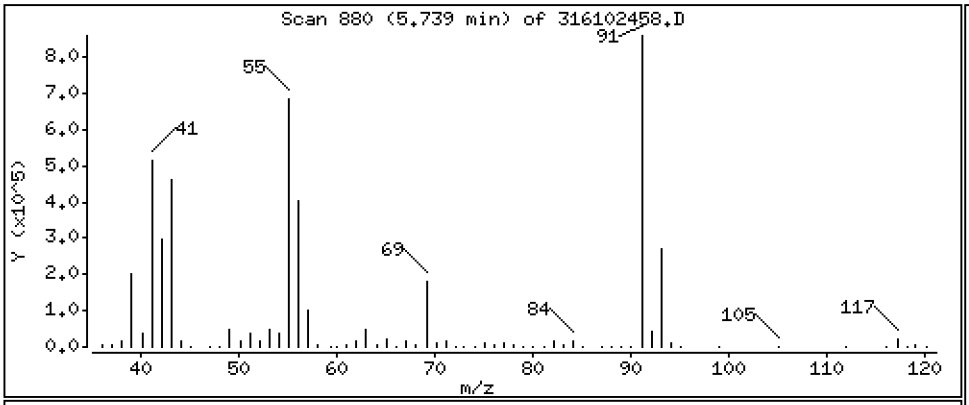
Client ID: Instrument: ms03.i

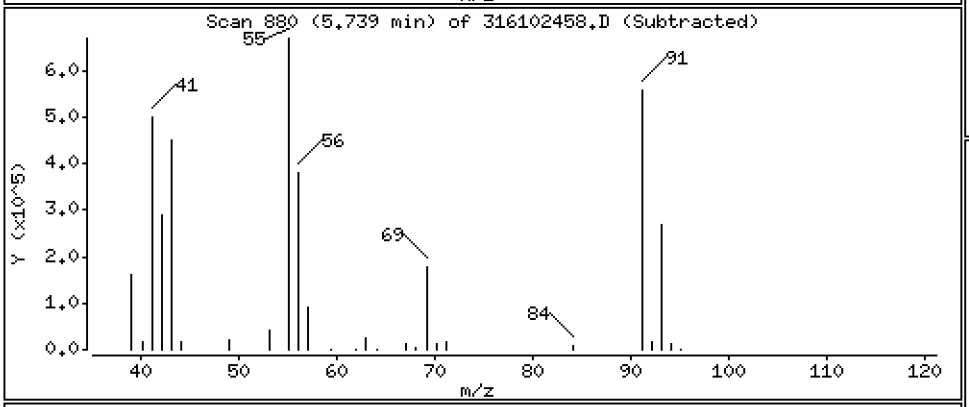
Sample Info: 1238;;1;1;5;;;

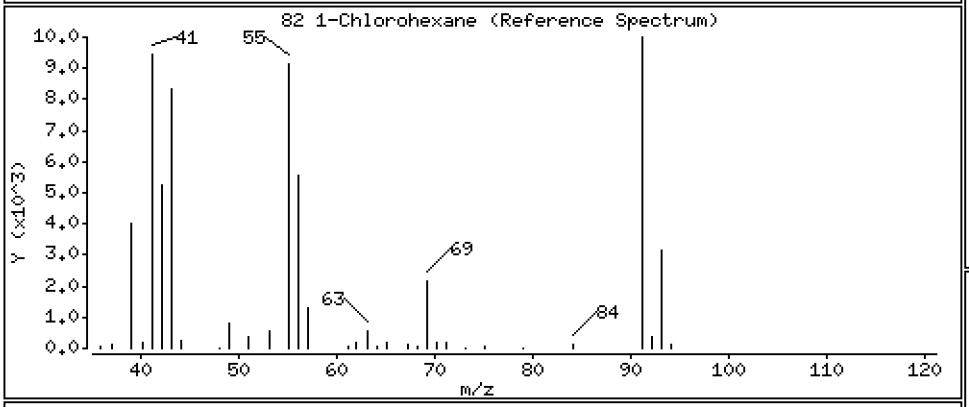
Purge Volume: 5.0 Operator: CJG

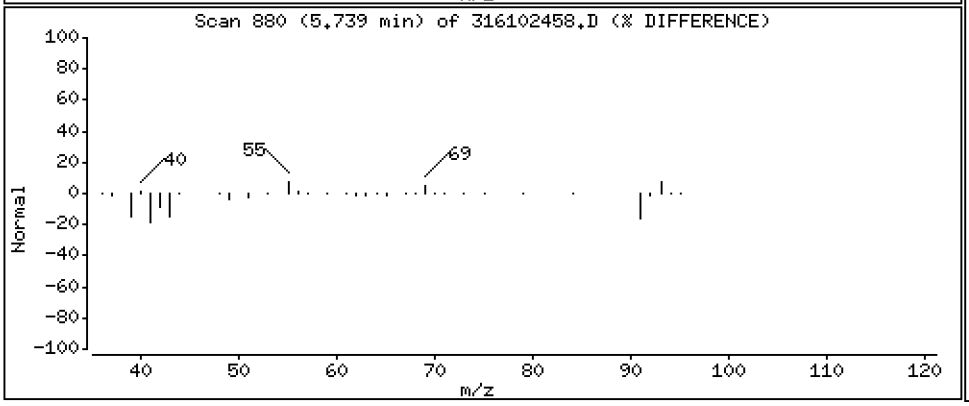
Column phase: DB-VRX Column diameter: 0.25

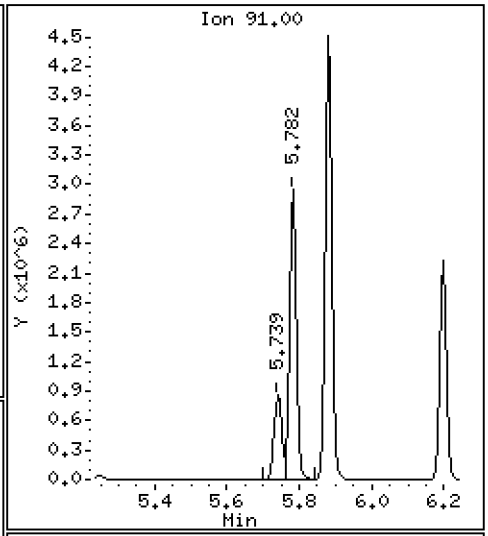
82 1-Chlorohexane Concentration: 101.688 ug/L

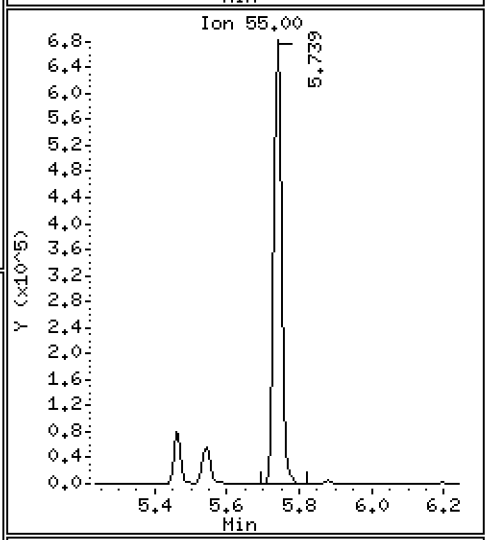


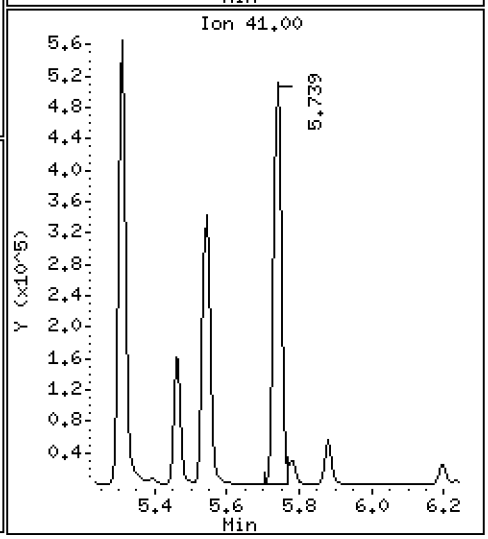












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 87

Date : 25-OCT-2016 01:14

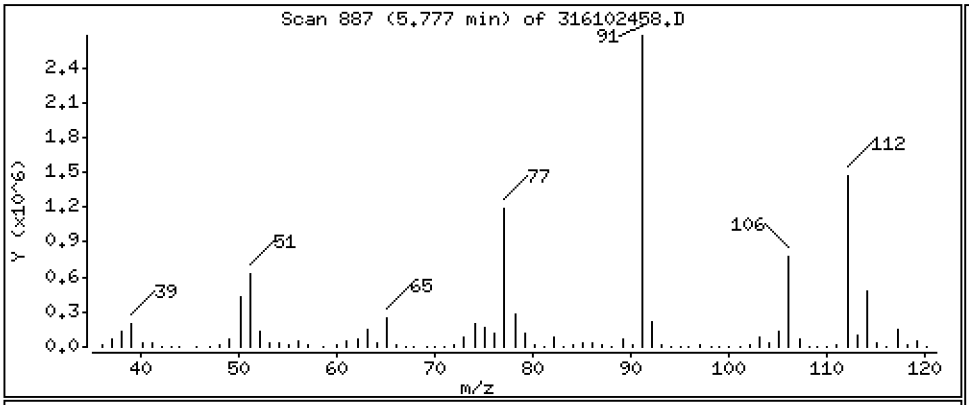
Client ID: Instrument: ms03.i

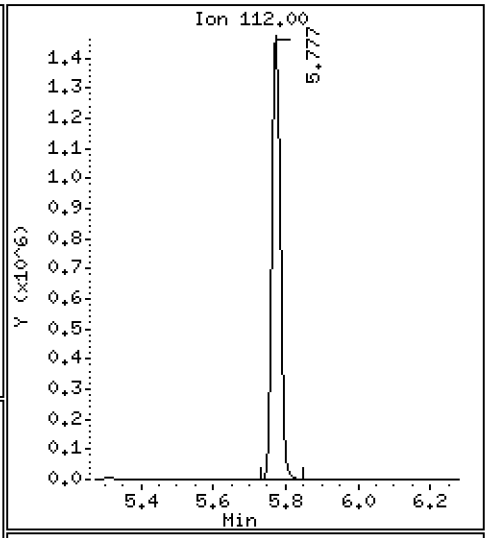
Sample Info: 1238;;1;1;5;;;

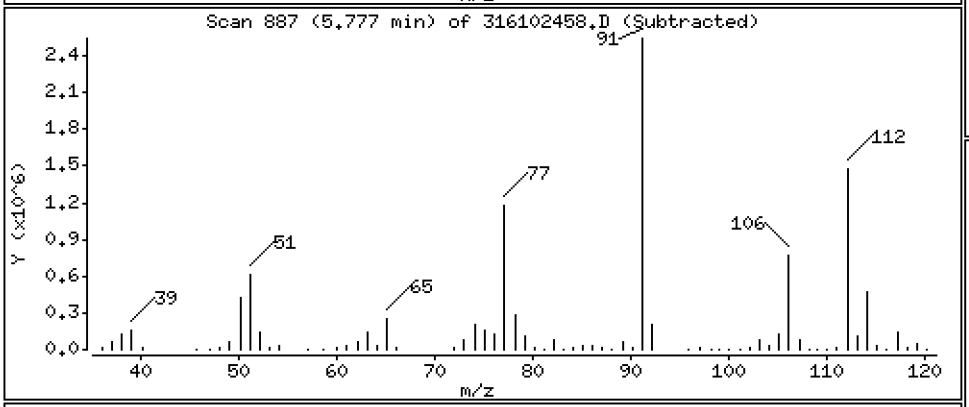
Purge Volume: 5.0 Operator: CJG

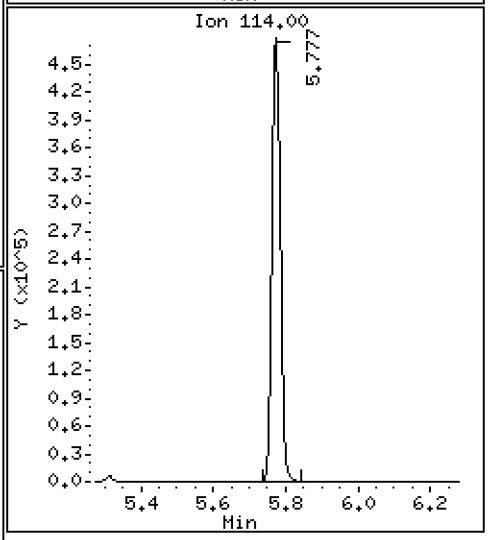
Column phase: DB-VRX Column diameter: 0.25

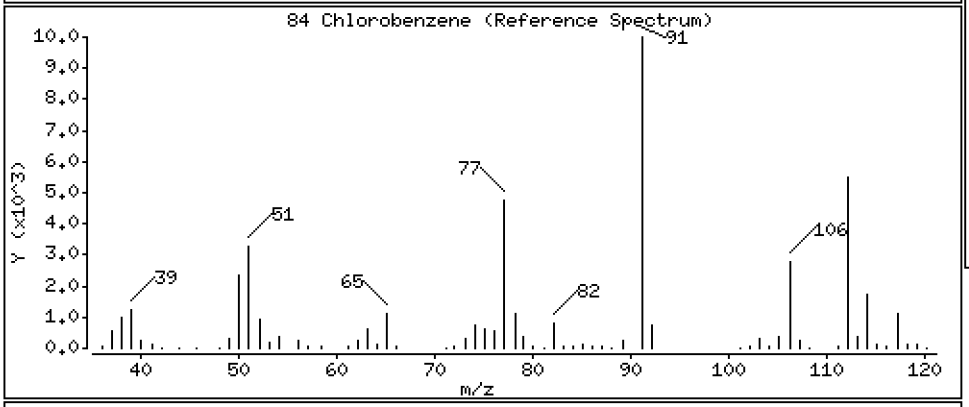
84 Chlorobenzene Concentration: 99.5856 ug/L

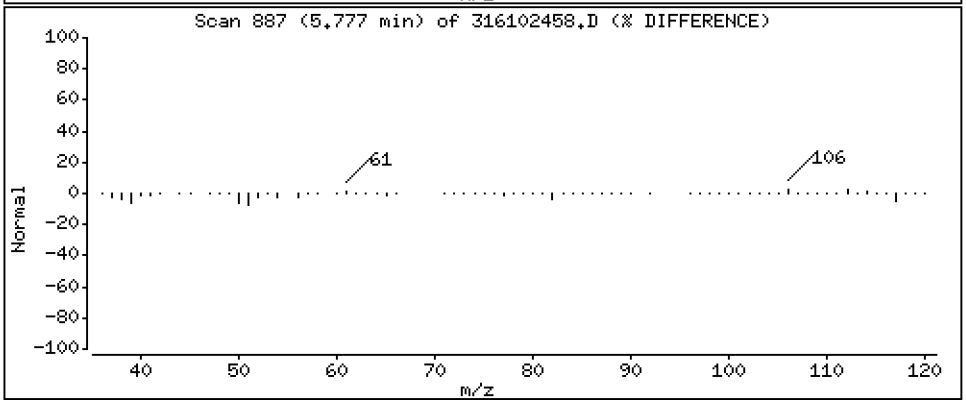












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 88

Date : 25-OCT-2016 01:14

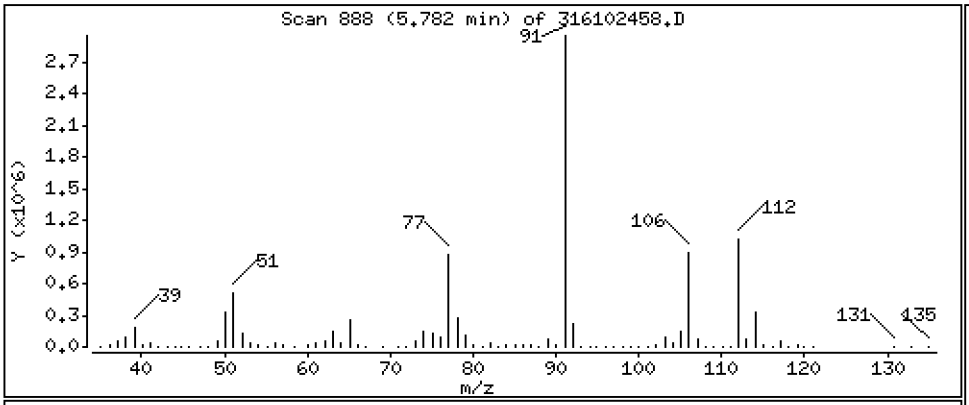
Client ID: Instrument: ms03.i

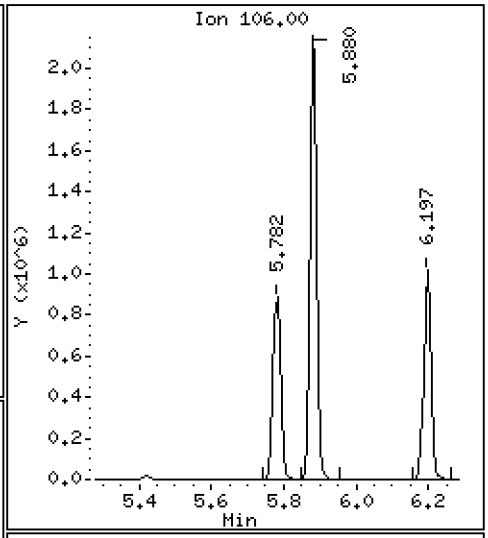
Sample Info: 1238;;1;1;5;;;

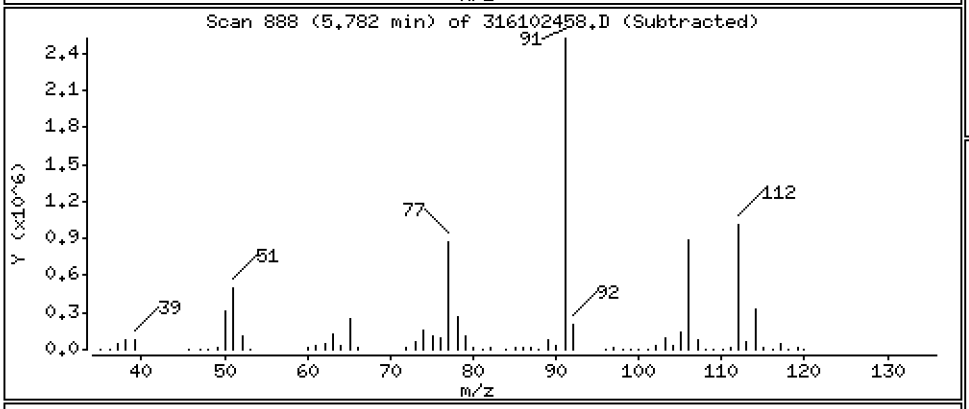
Purge Volume: 5.0 Operator: CJG

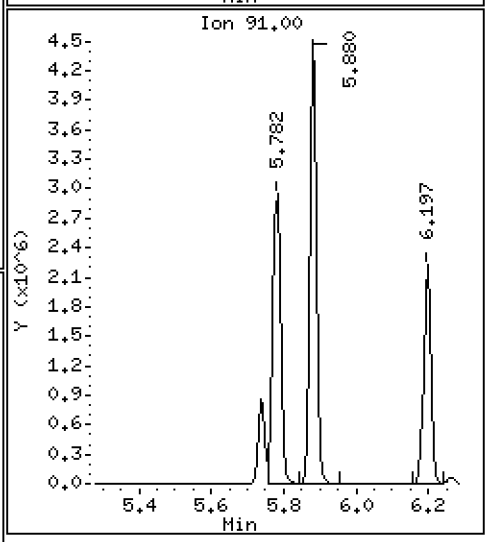
Column phase: DB-VRX Column diameter: 0.25

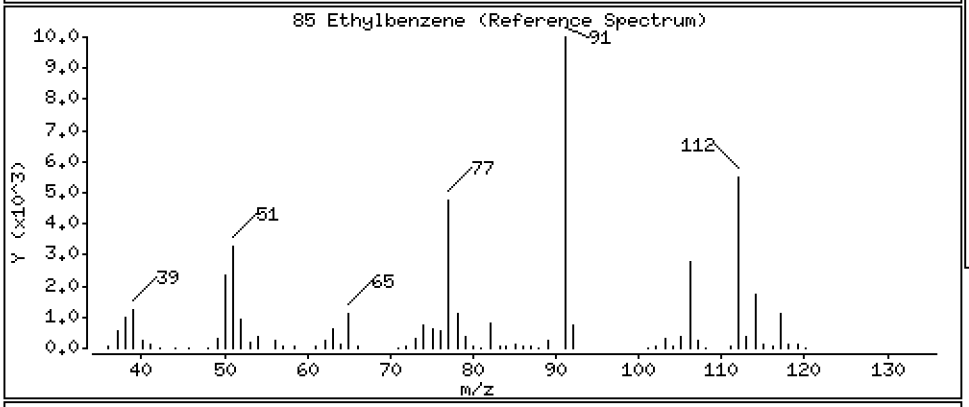
85 Ethylbenzene Concentration: 99.7172 ug/L

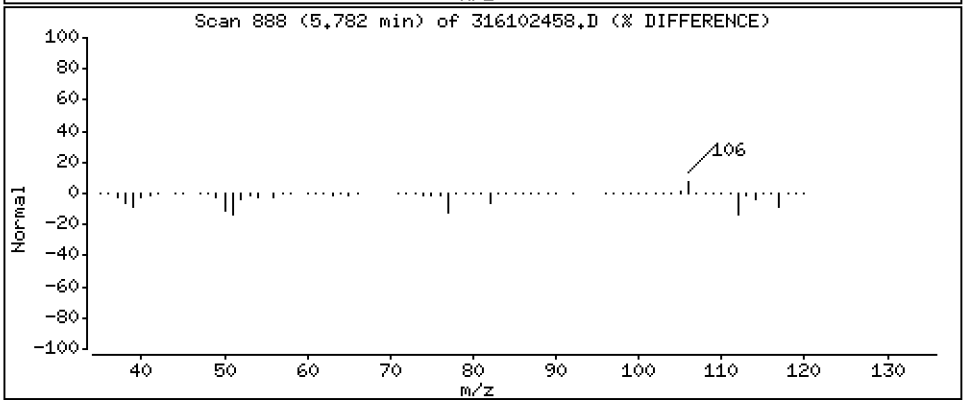












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 89

Date : 25-OCT-2016 01:14

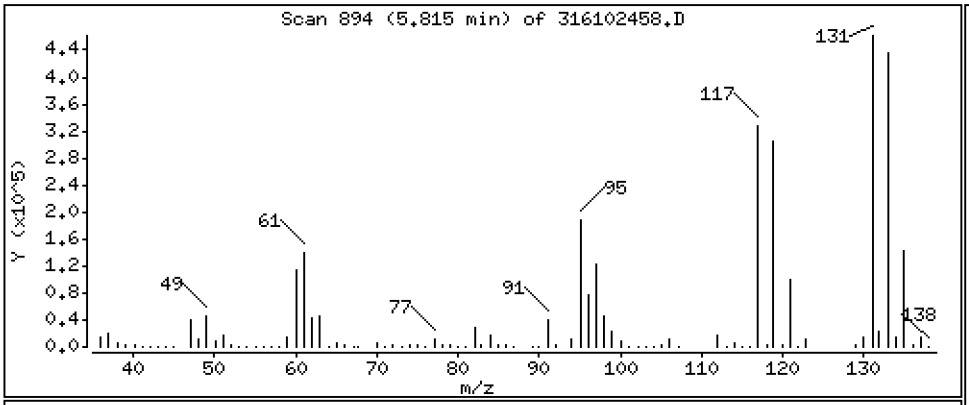
Client ID: Instrument: ms03.i

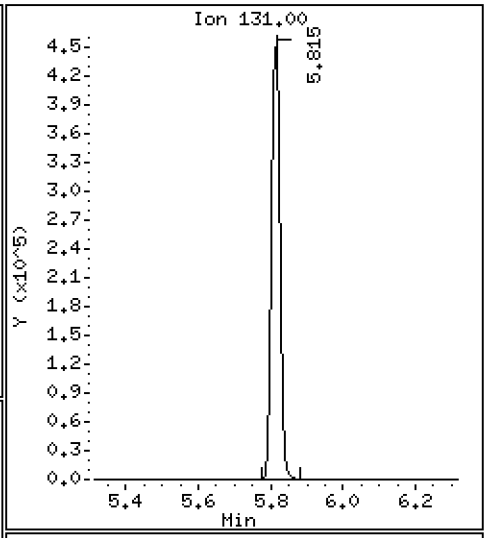
Sample Info: 1238;;1;1;5;;;

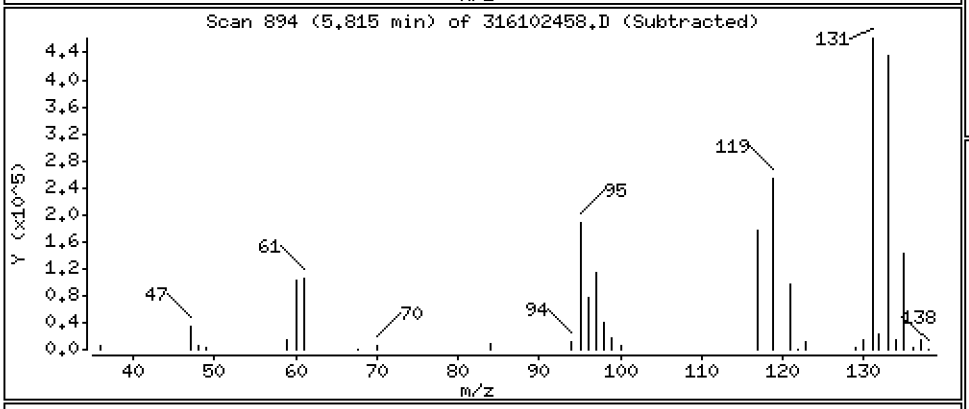
Purge Volume: 5.0 Operator: CJG

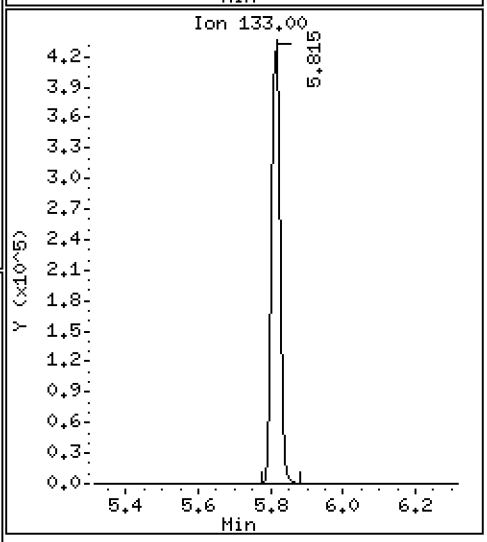
Column phase: DB-VRX Column diameter: 0.25

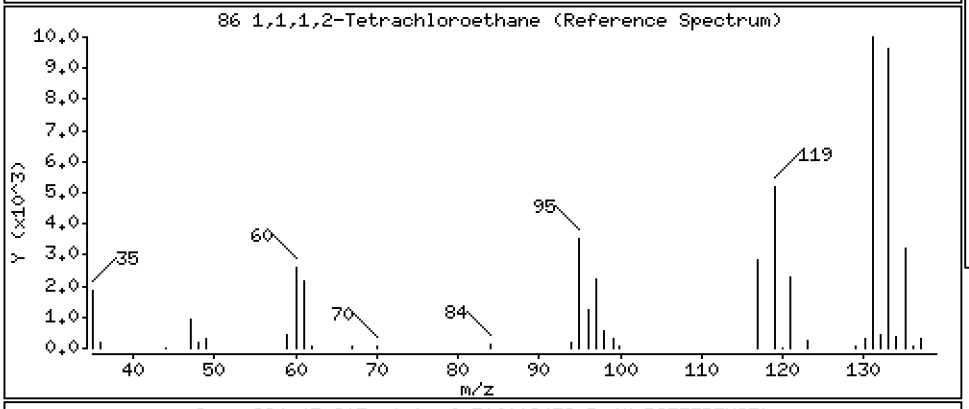
86 1,1,1,2-Tetrachloroethane Concentration: 100.305 ug/L

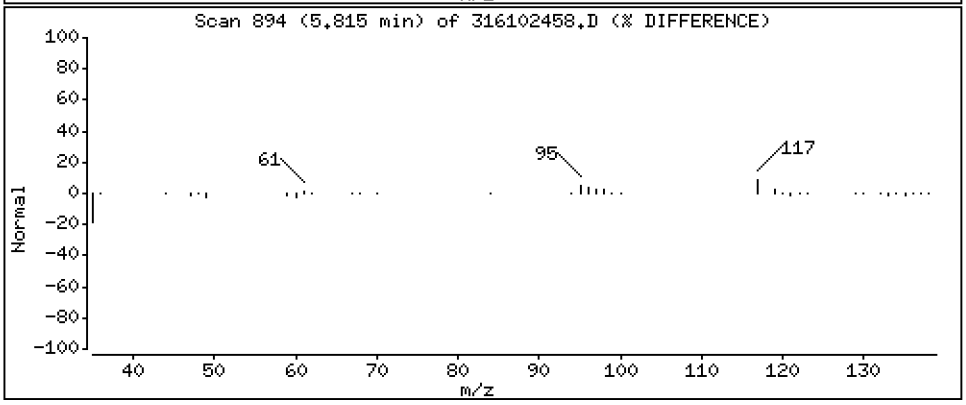












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 90

Date : 25-OCT-2016 01:14

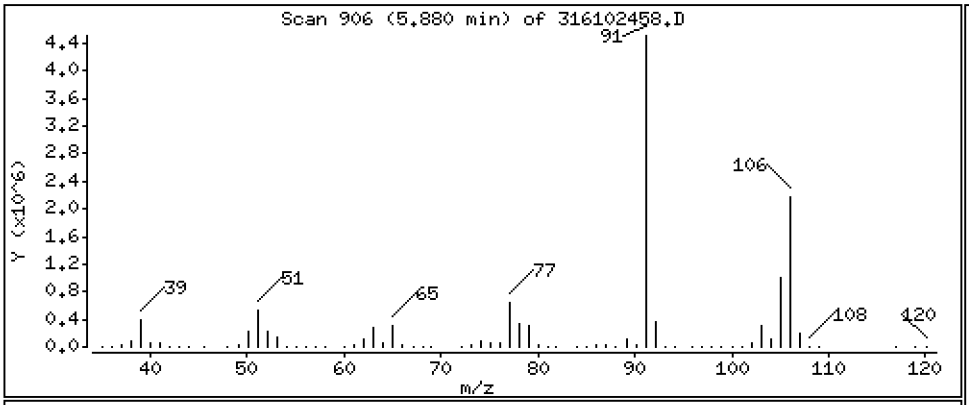
Client ID: Instrument: ms03.i

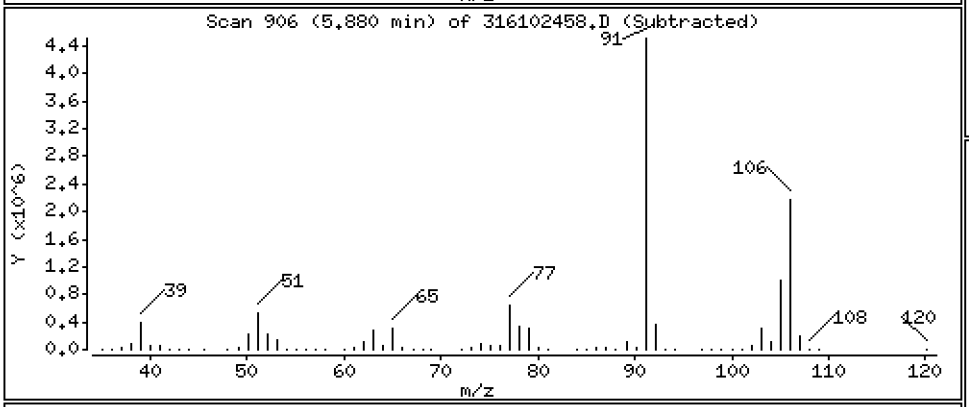
Sample Info: 1238;;1;1;5;;;

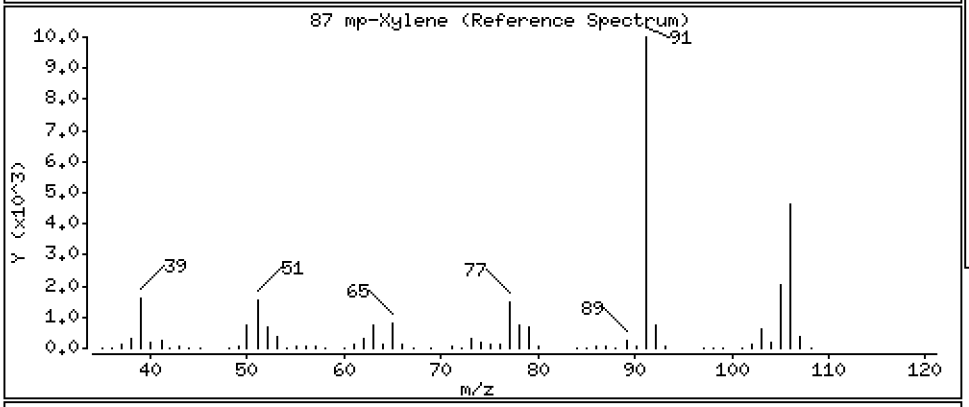
Purge Volume: 5.0 Operator: CJG

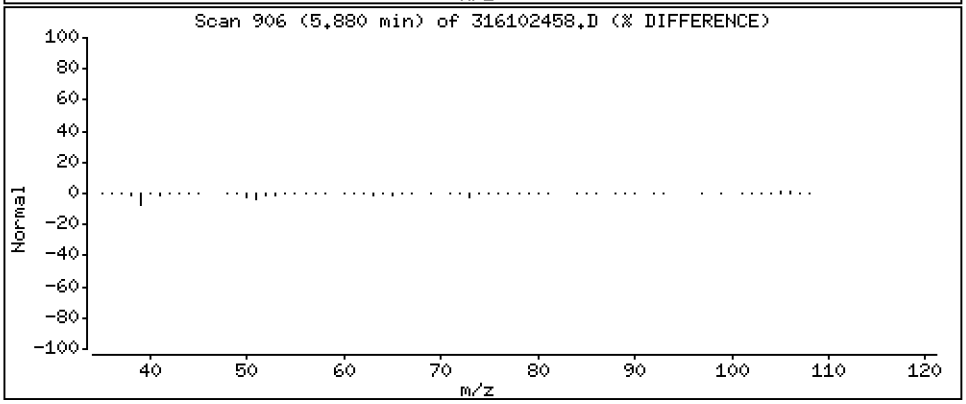
Column phase: DB-VRX Column diameter: 0.25

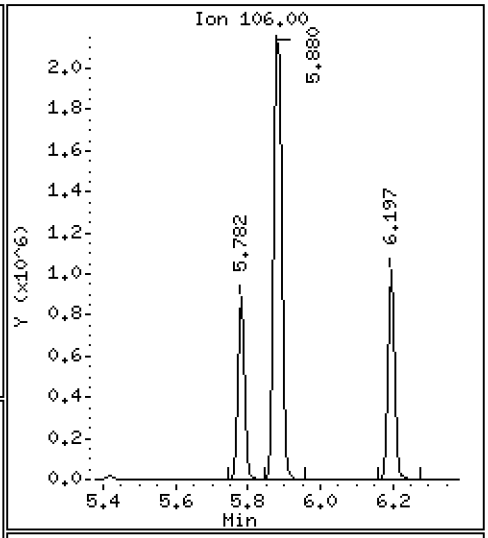
87 mp-Xylene Concentration: 199.568 ug/L

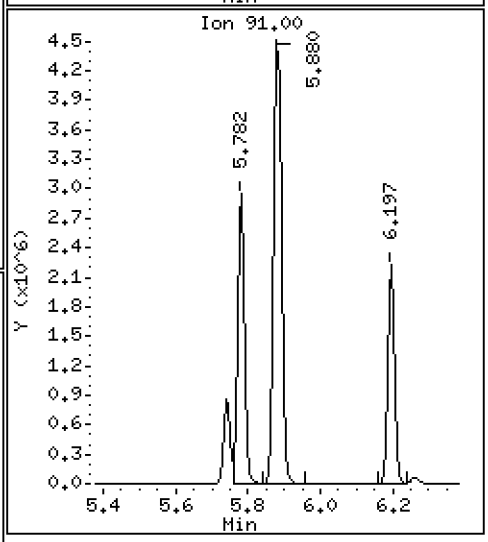












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 91

Date : 25-OCT-2016 01:14

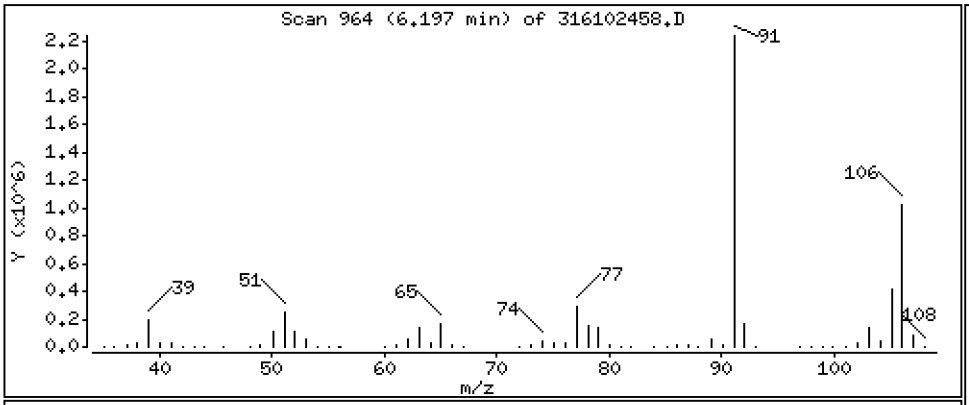
Client ID: Instrument: ms03.i

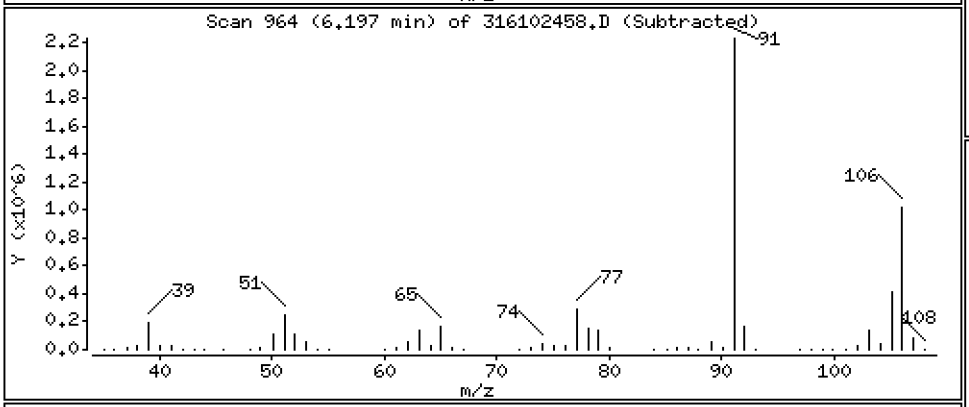
Sample Info: 1238;;1;1;5;;;

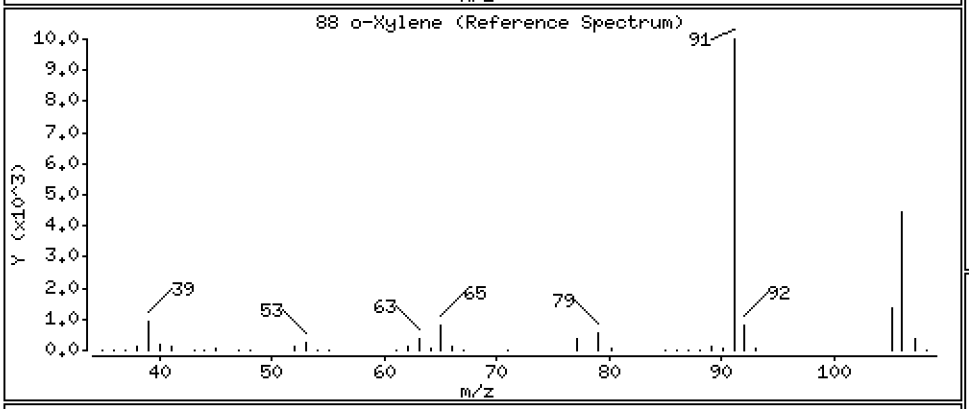
Purge Volume: 5.0 Operator: CJG

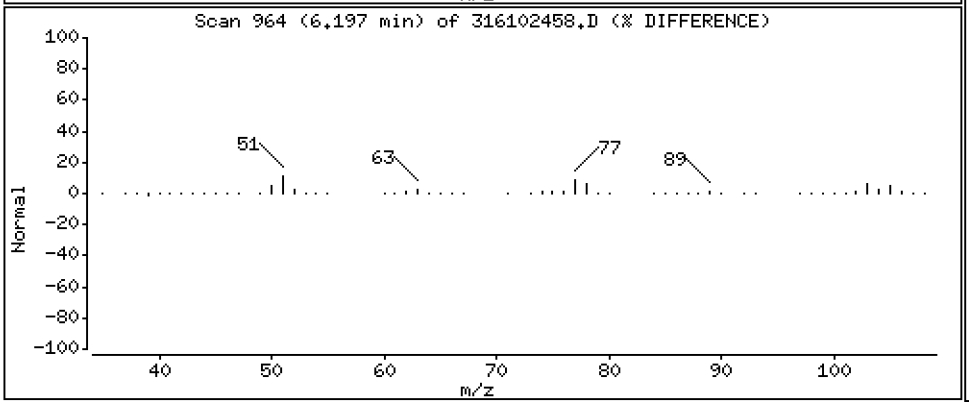
Column phase: DB-VRX Column diameter: 0.25

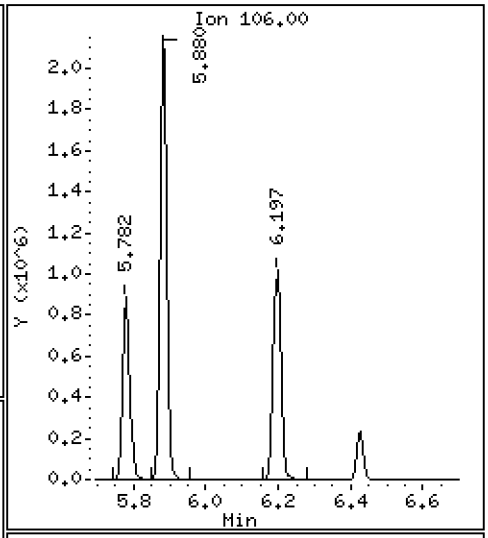
88 o-Xylene Concentration: 100.756 ug/L

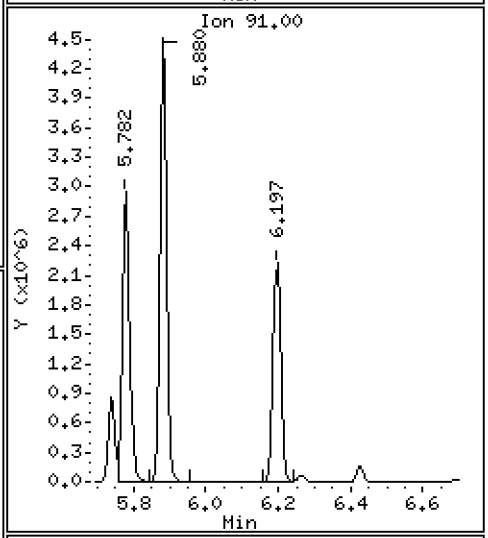


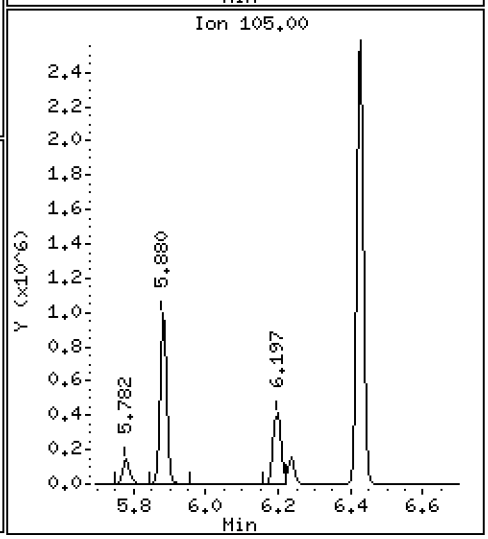












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 92

Date : 25-OCT-2016 01:14

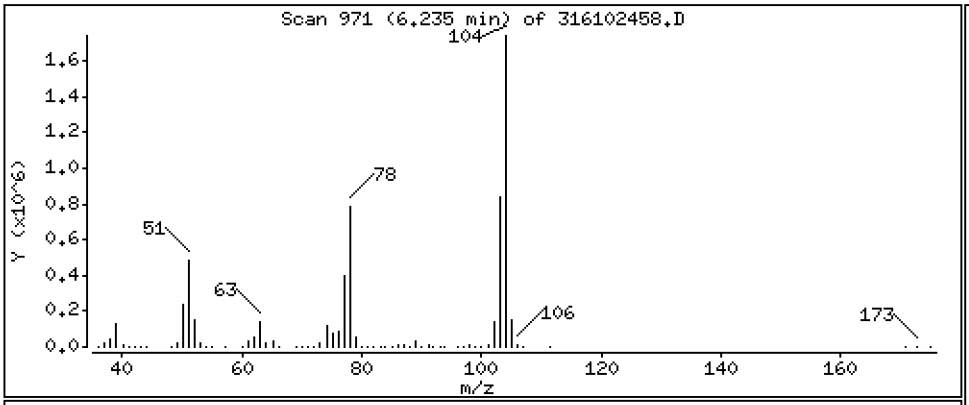
Client ID: Instrument: ms03.i

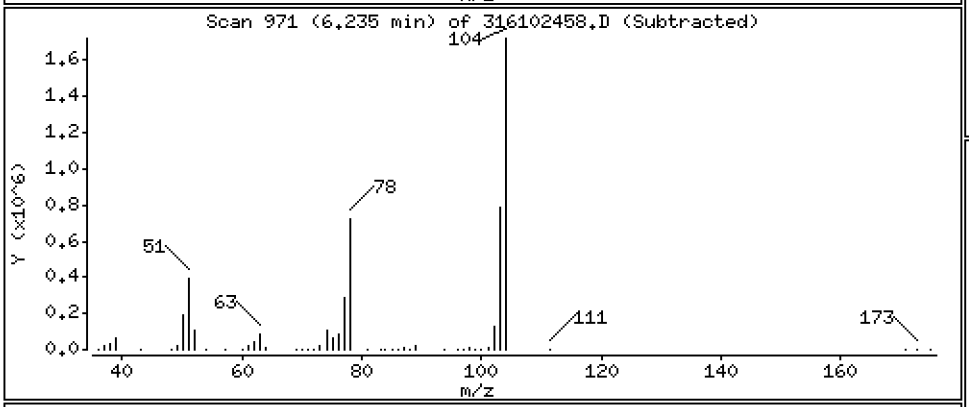
Sample Info: 1238;;1;1;5;;;

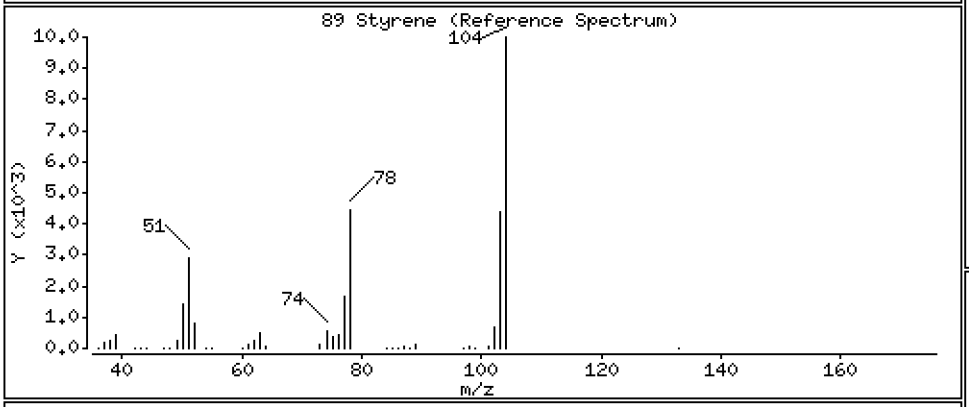
Purge Volume: 5.0 Operator: CJG

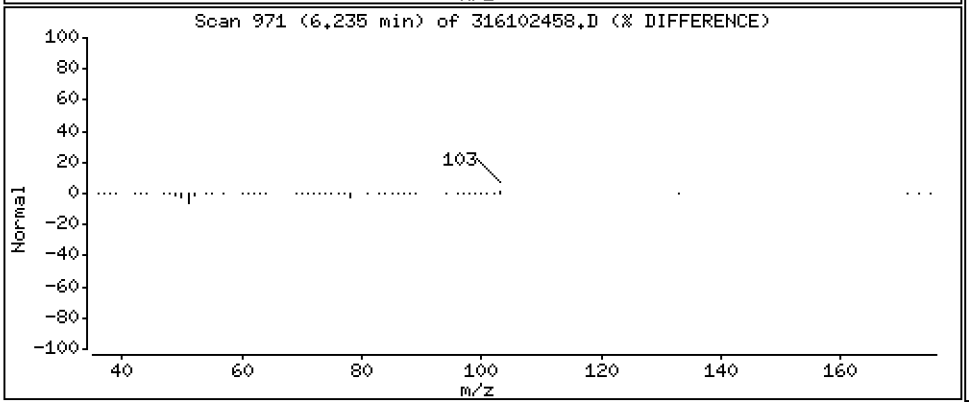
Column phase: DB-VRX Column diameter: 0.25

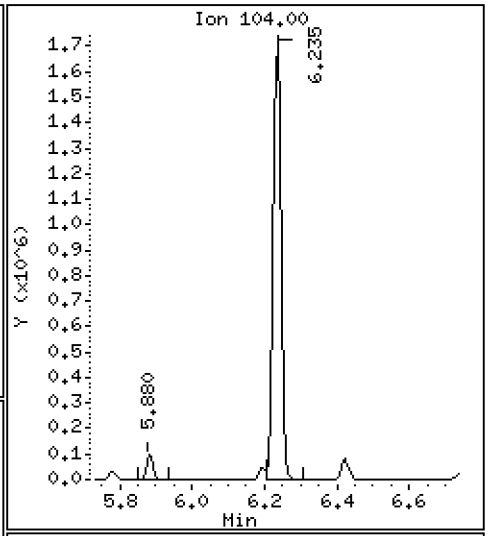
89 Styrene Concentration: 100.659 ug/L

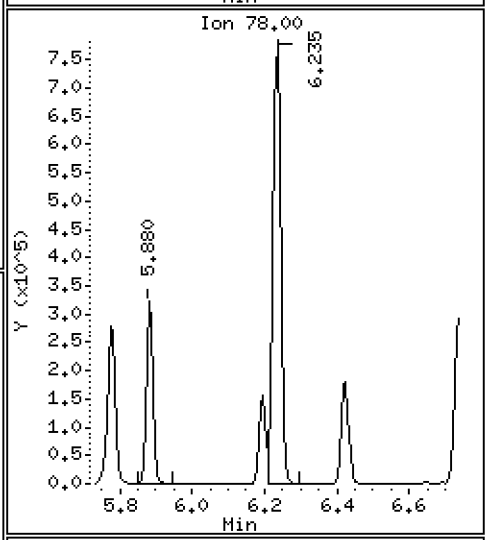


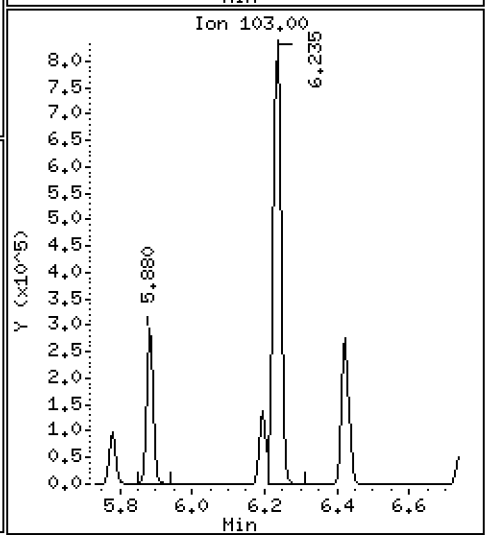












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 93

Date : 25-OCT-2016 01:14

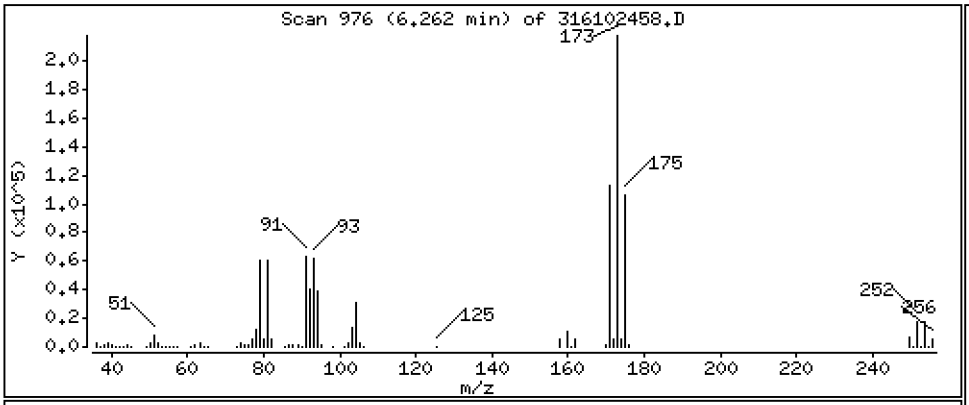
Client ID: Instrument: ms03.i

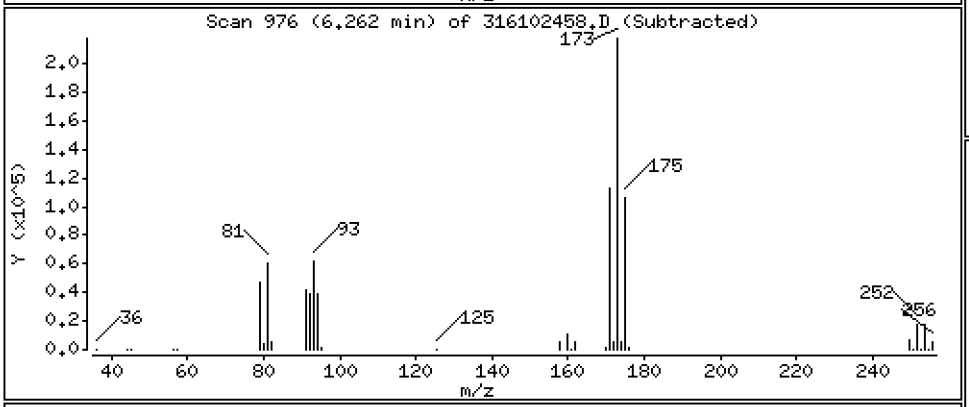
Sample Info: 1238;;1;1;5;;;

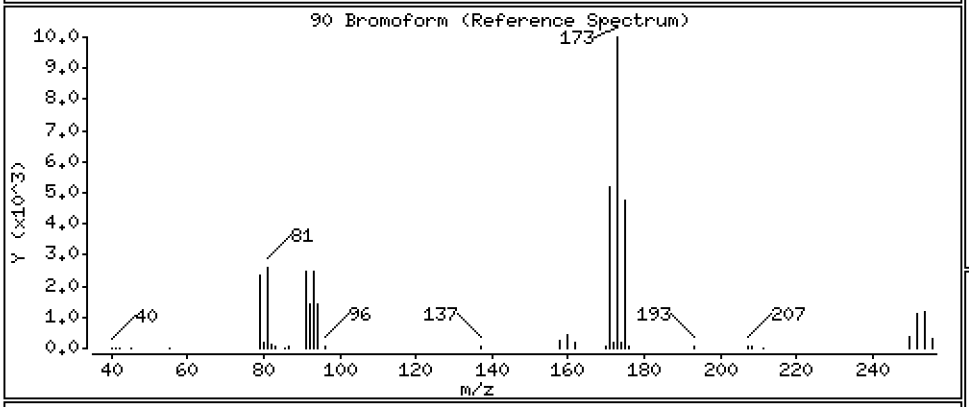
Purge Volume: 5.0 Operator: CJG

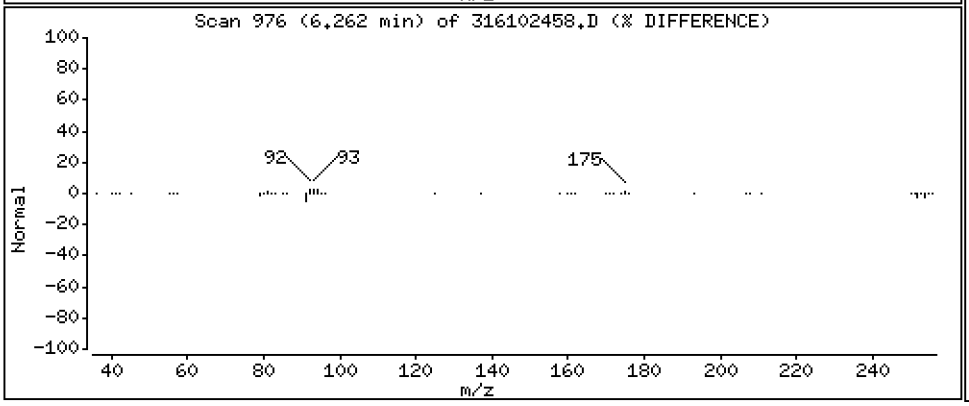
Column phase: DB-VRX Column diameter: 0.25

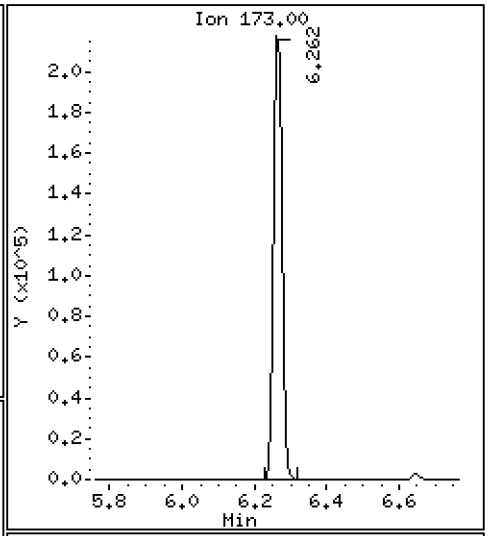
90 Bromoform Concentration: 101.244 ug/L

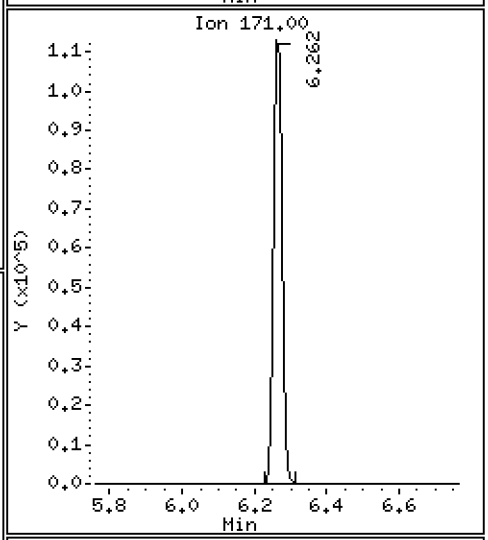


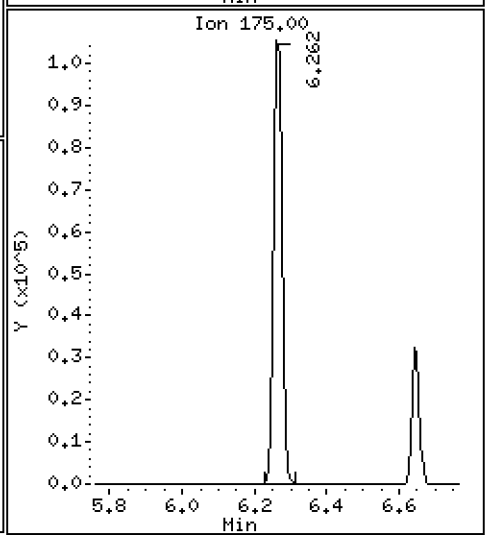












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 94

Date : 25-OCT-2016 01:14

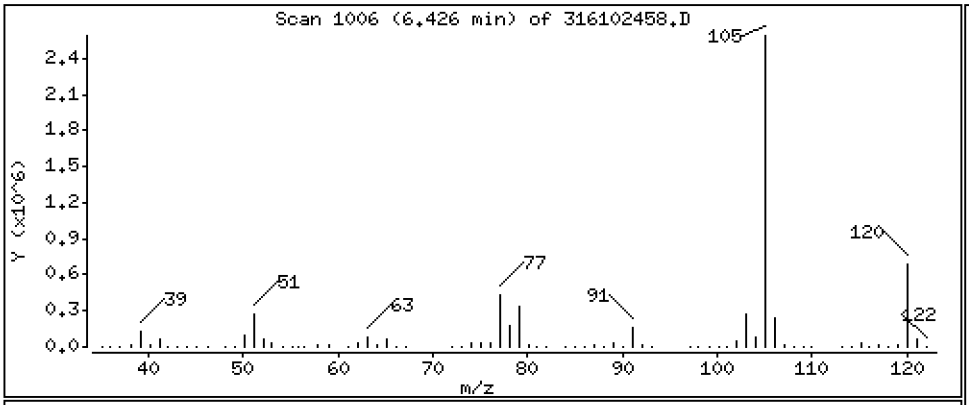
Client ID: Instrument: ms03.i

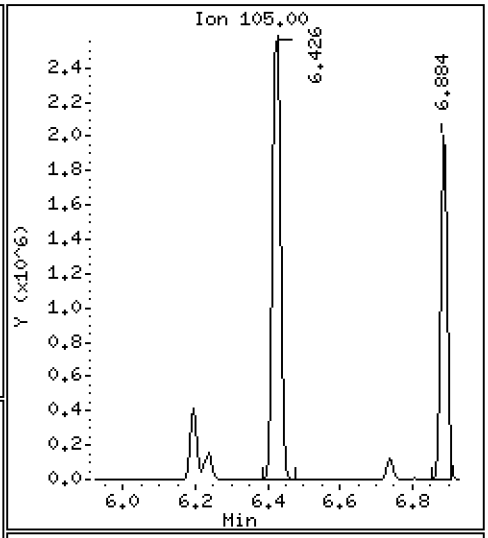
Sample Info: 1238;;1;1;5;;;

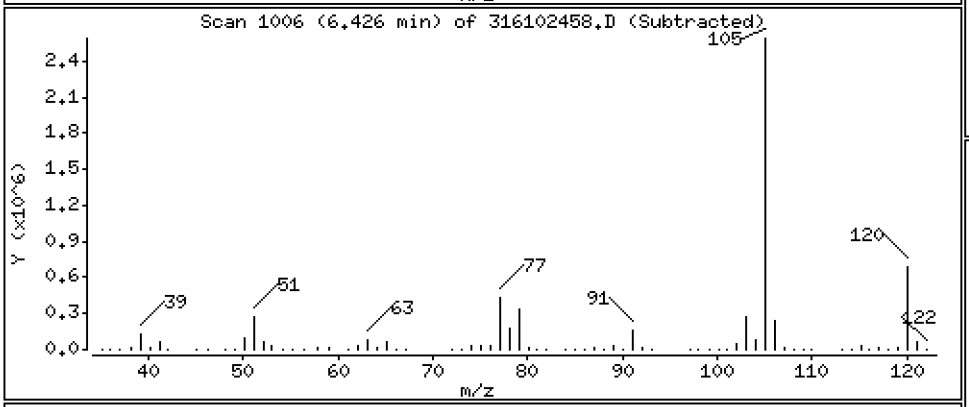
Purge Volume: 5.0 Operator: CJG

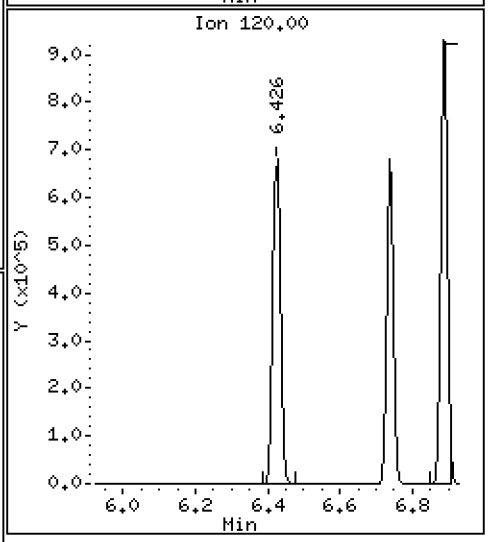
Column phase: DB-VRX Column diameter: 0.25

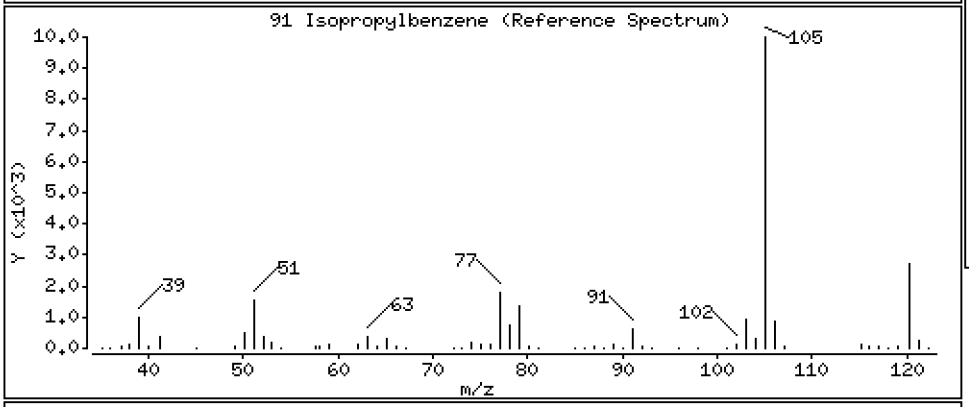
91 Isopropylbenzene Concentration: 100.368 ug/L

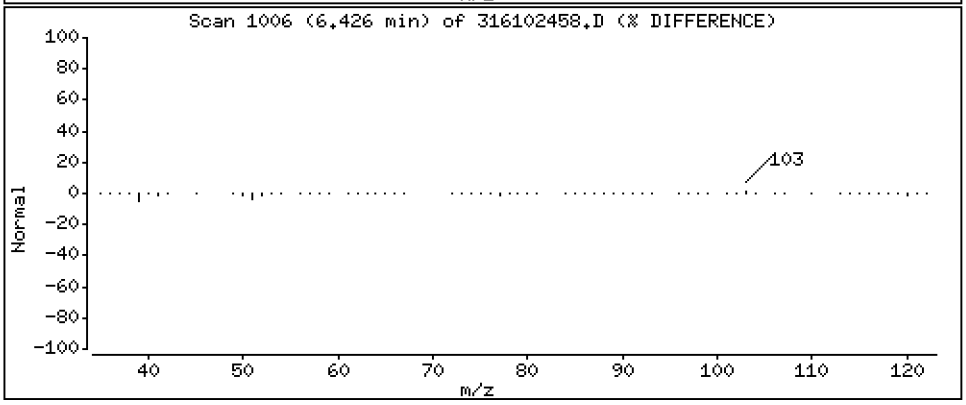












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 95

Date : 25-OCT-2016 01:14

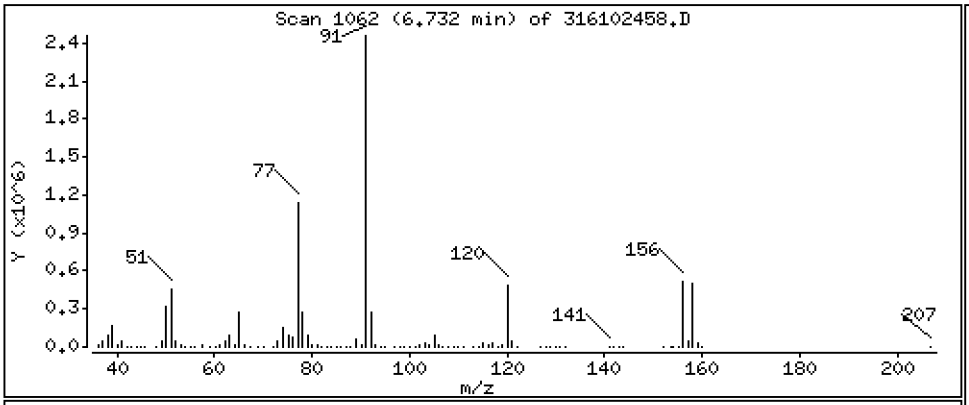
Client ID: Instrument: ms03.i

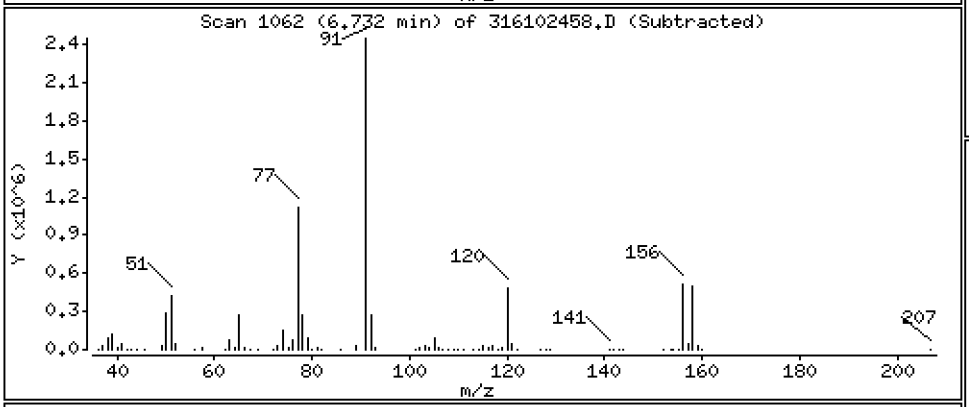
Sample Info: 1238;;1;1;5;;;

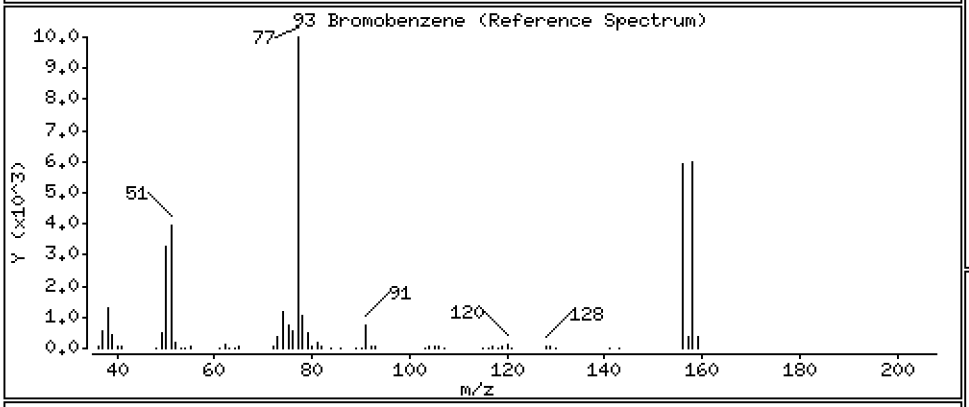
Purge Volume: 5.0 Operator: CJG

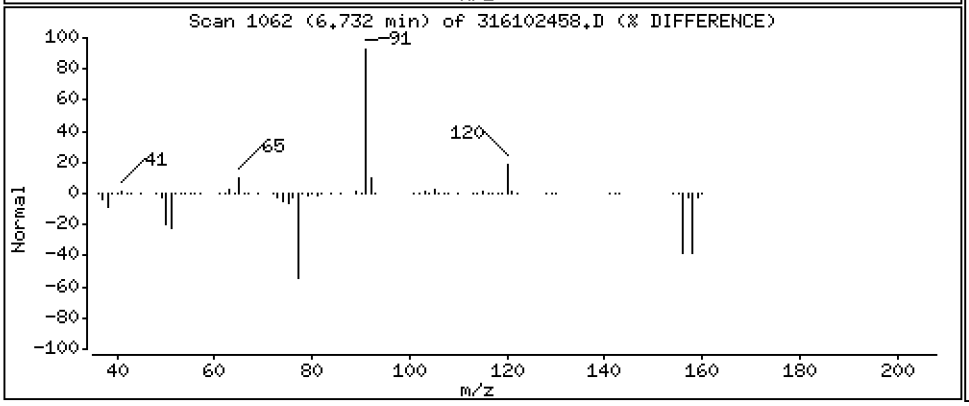
Column phase: DB-VRX Column diameter: 0.25

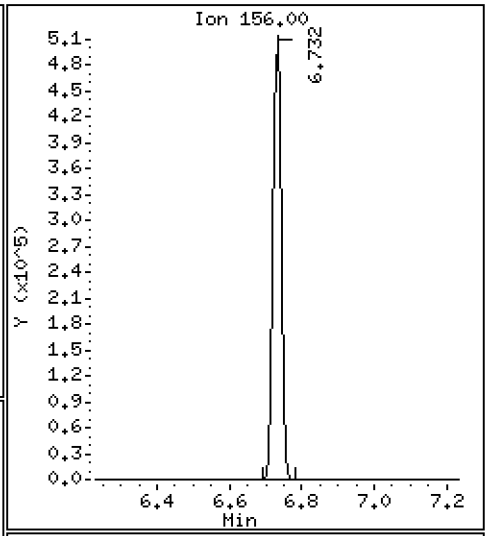
93 Bromobenzene Concentration: 100.220 ug/L

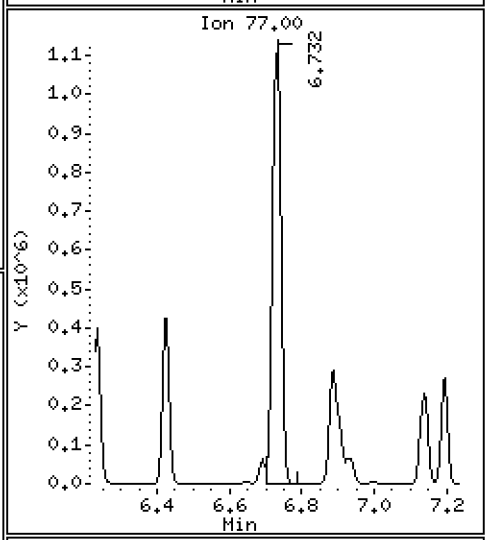


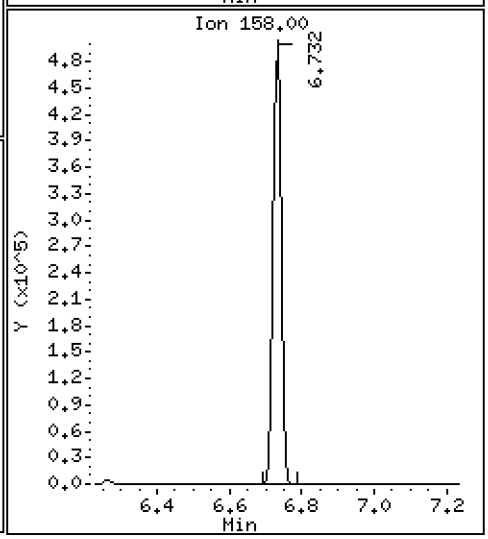












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 96

Date : 25-OCT-2016 01:14

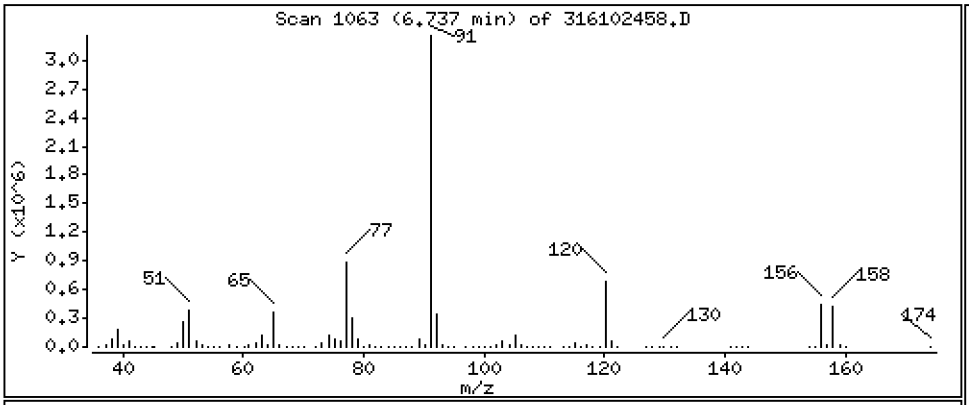
Client ID: Instrument: ms03.i

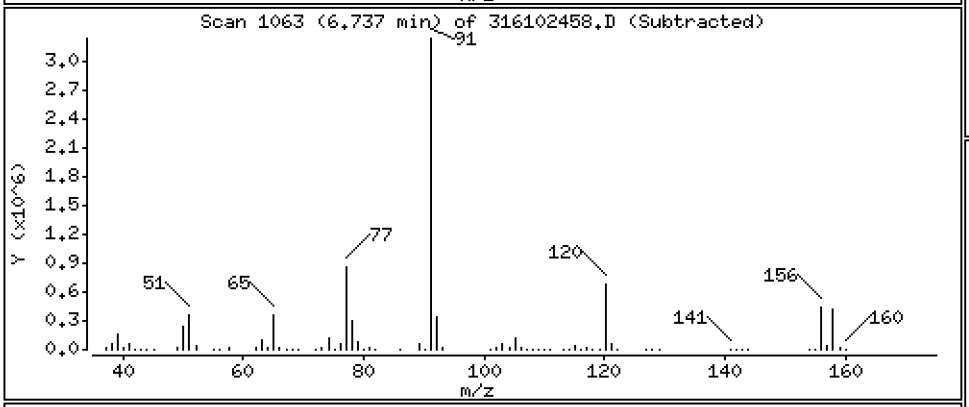
Sample Info: 1238;;1;1;5;;;

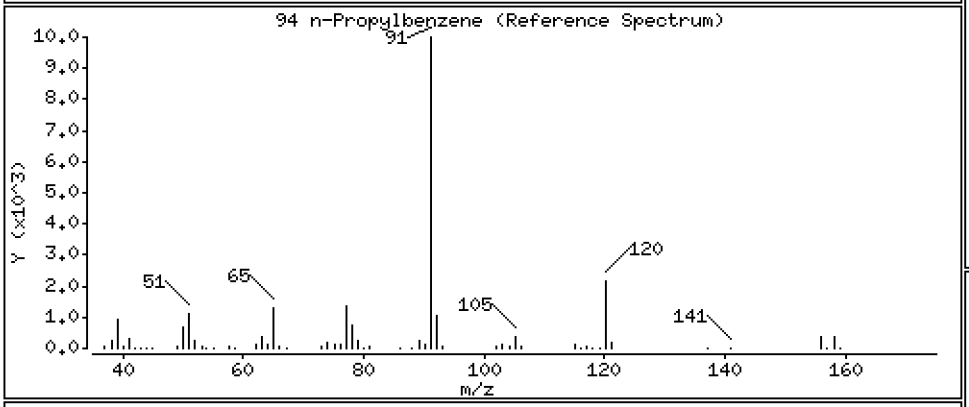
Purge Volume: 5.0 Operator: CJG

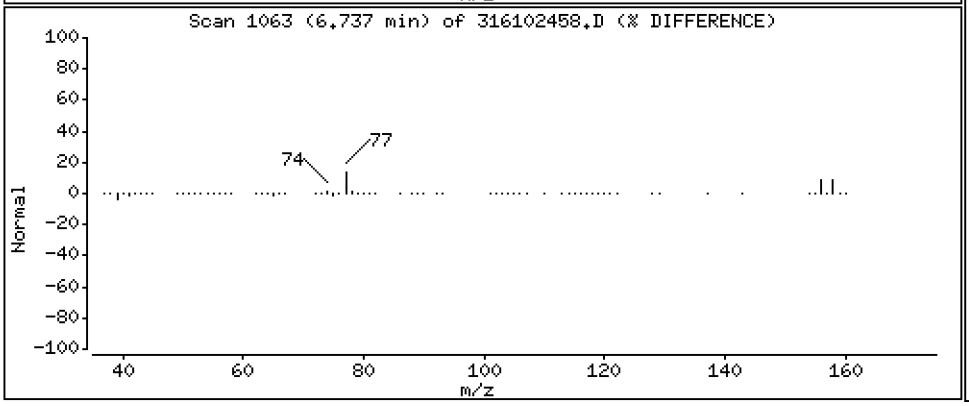
Column phase: DB-VRX Column diameter: 0.25

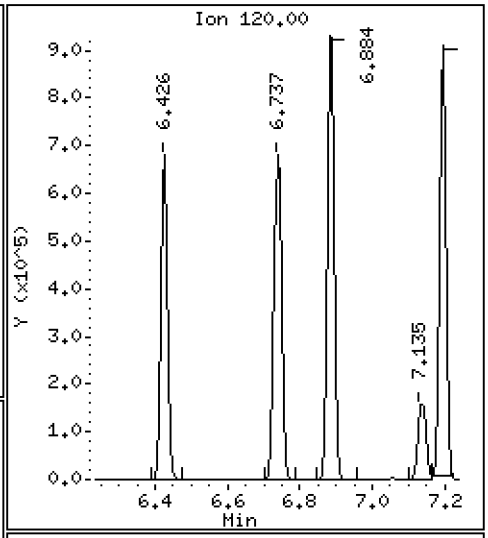
94 n-Propylbenzene Concentration: 100.283 ug/L

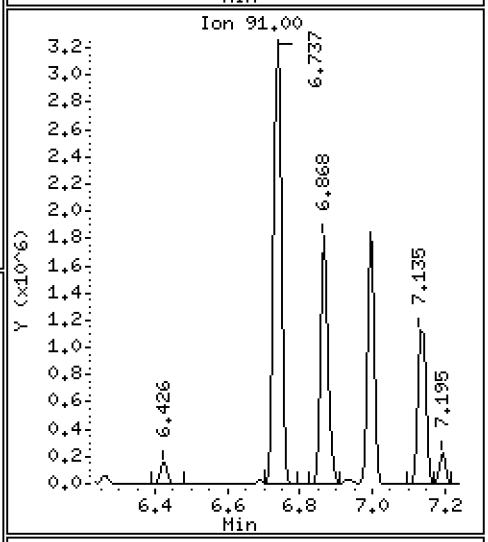


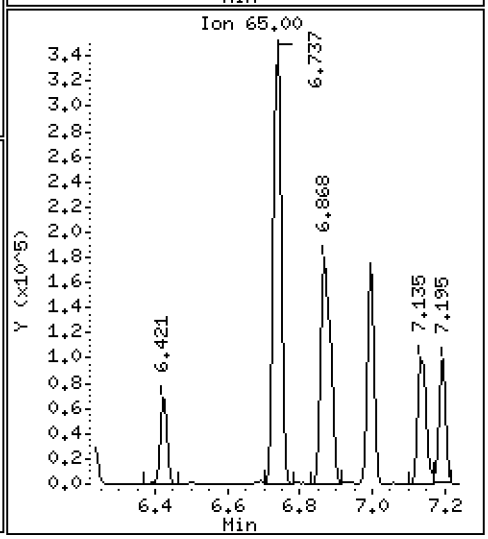












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 97

Date : 25-OCT-2016 01:14

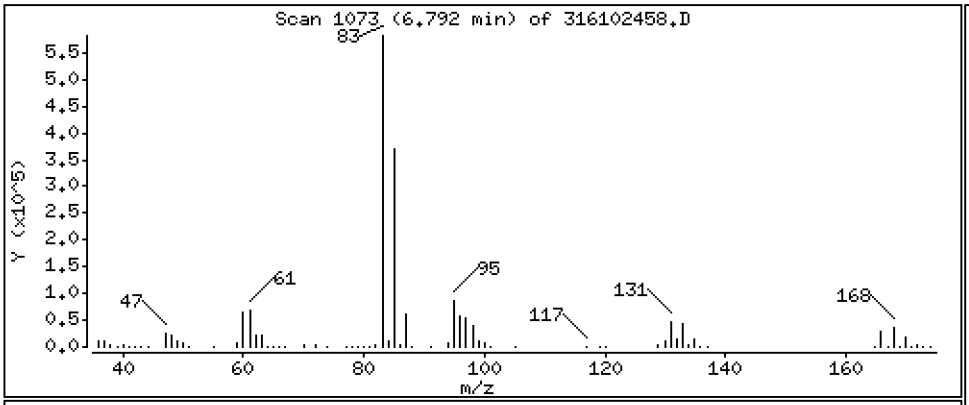
Client ID: Instrument: ms03.i

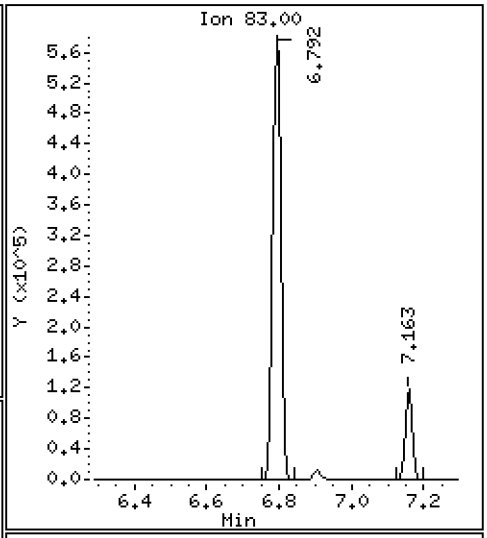
Sample Info: 1238;;1;1;5;;;

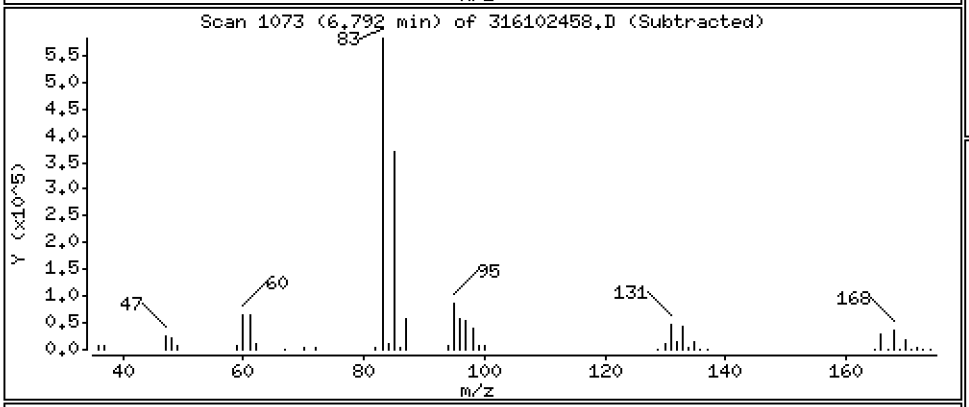
Purge Volume: 5.0 Operator: CJG

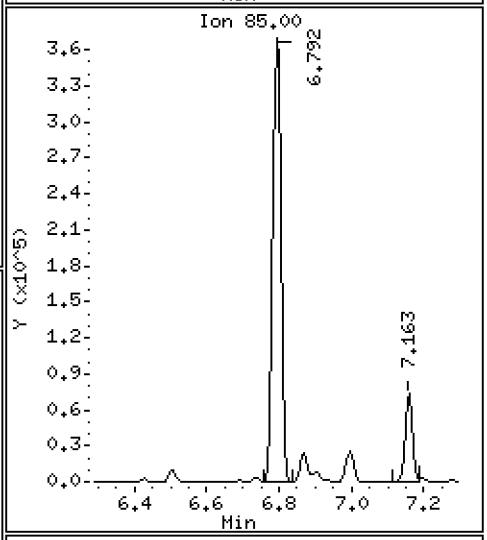
Column phase: DB-VRX Column diameter: 0.25

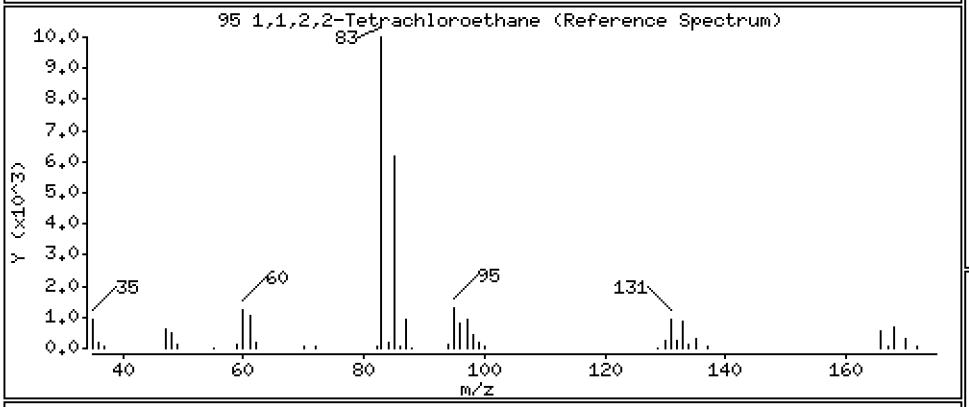
95 1,1,2,2-Tetrachloroethane Concentration: 99.3529 ug/L

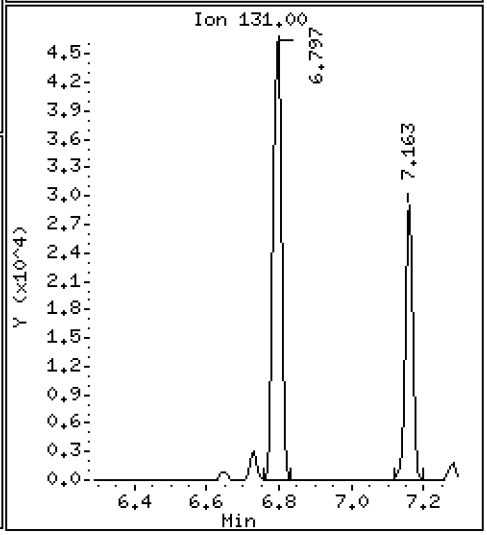


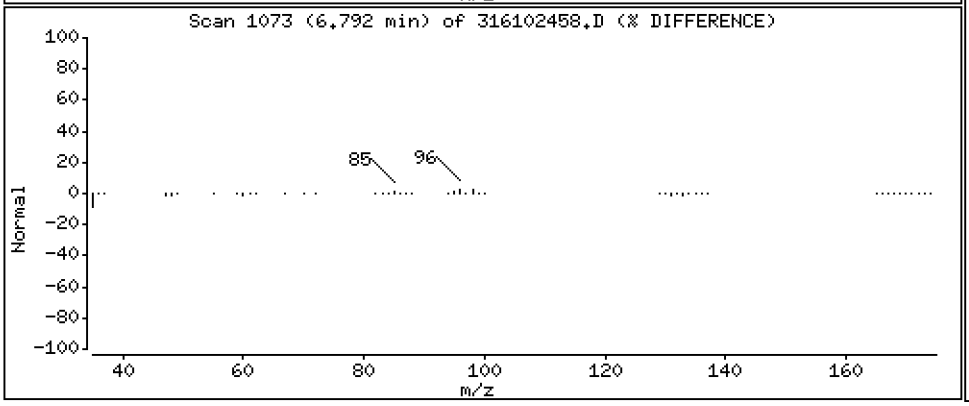












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 98

Date : 25-OCT-2016 01:14

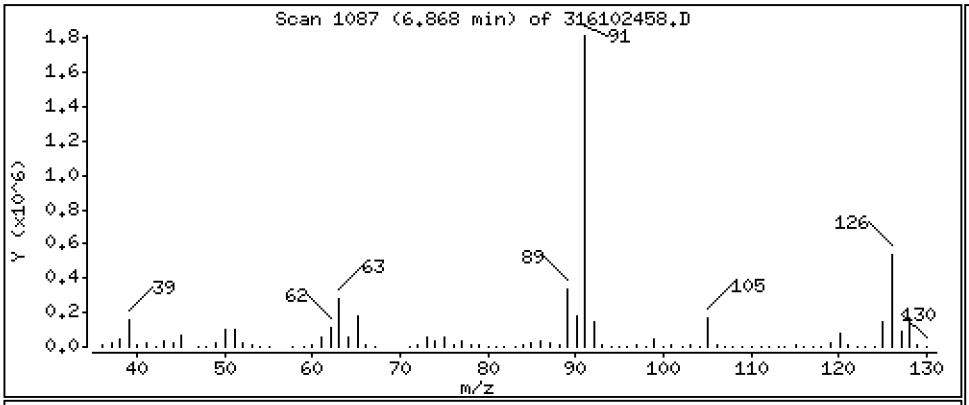
Client ID: Instrument: ms03.i

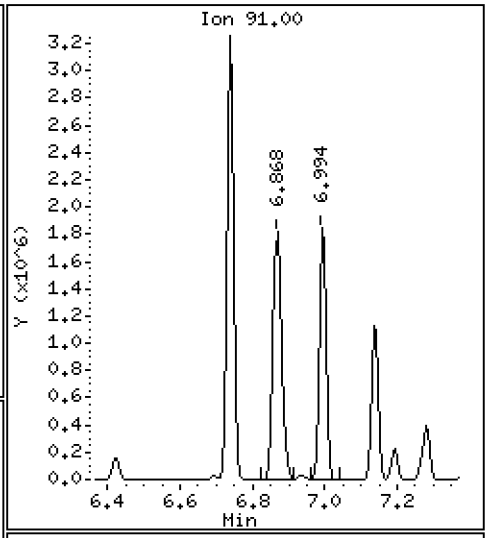
Sample Info: 1238;;1;1;5;;;

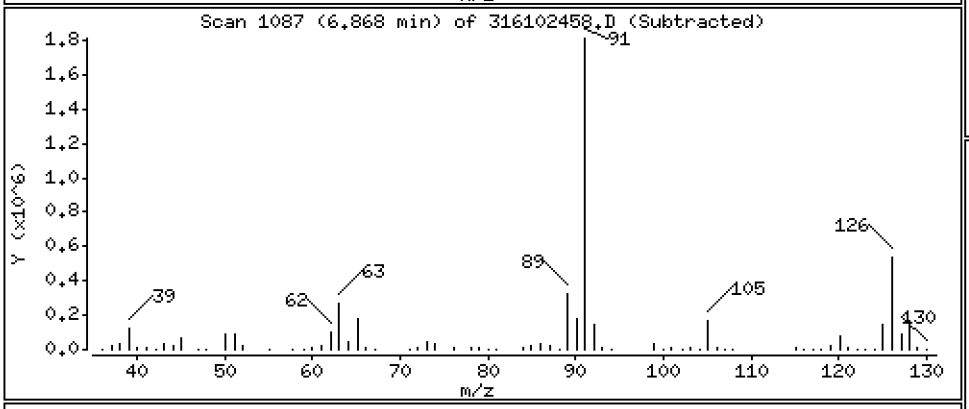
Purge Volume: 5.0 Operator: CJG

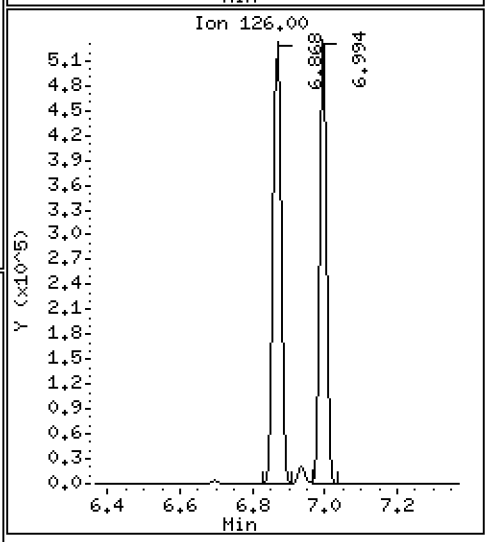
Column phase: DB-VRX Column diameter: 0.25

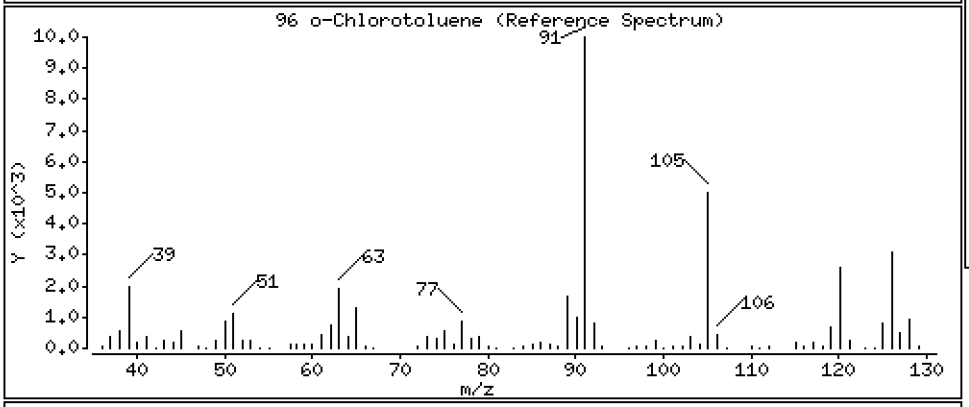
96 o-Chlorotoluene Concentration: 100.384 ug/L

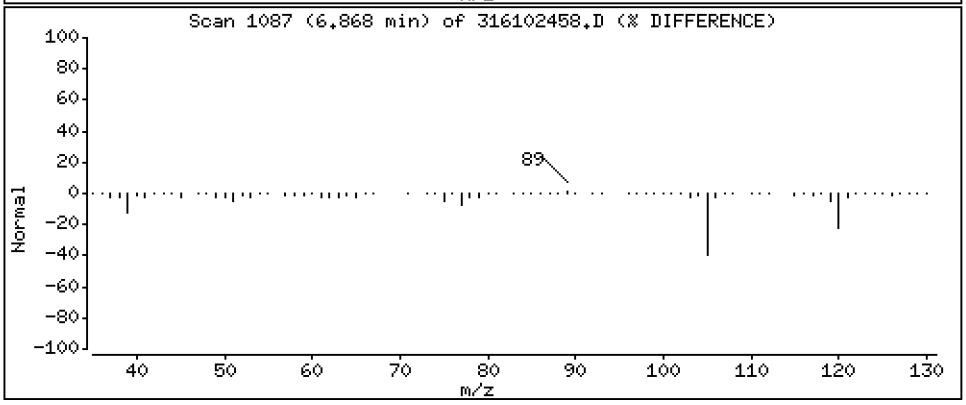












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 99

Date : 25-OCT-2016 01:14

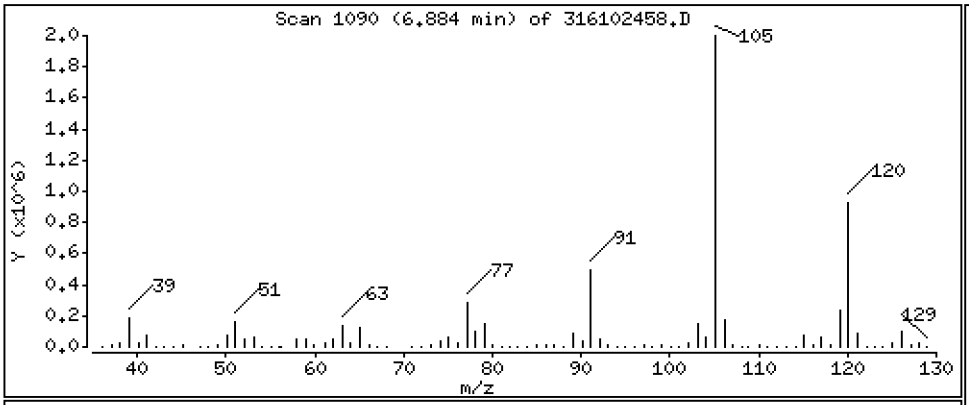
Client ID: Instrument: ms03.i

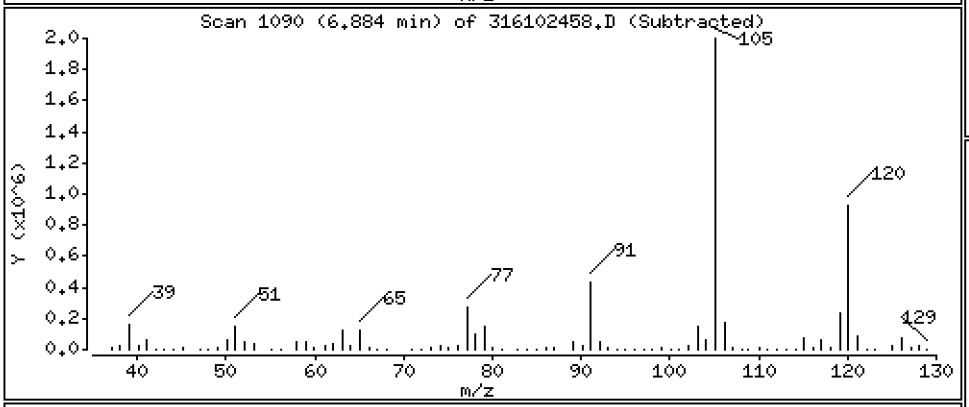
Sample Info: 1238;;1;1;5;;;

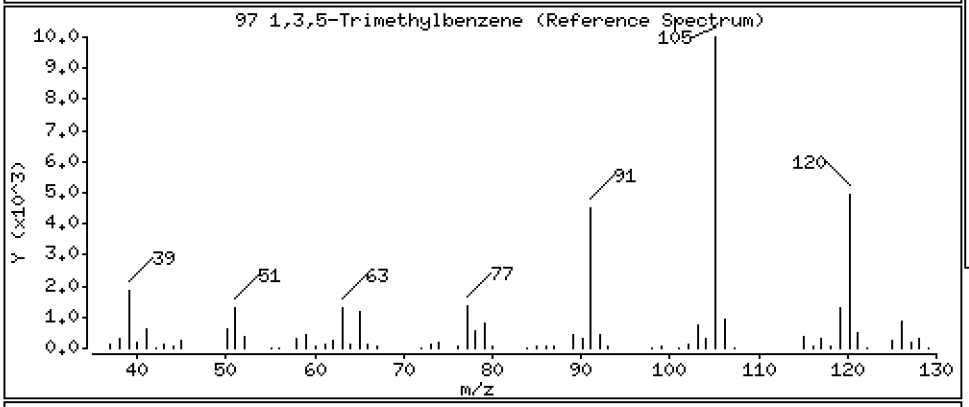
Purge Volume: 5.0 Operator: CJG

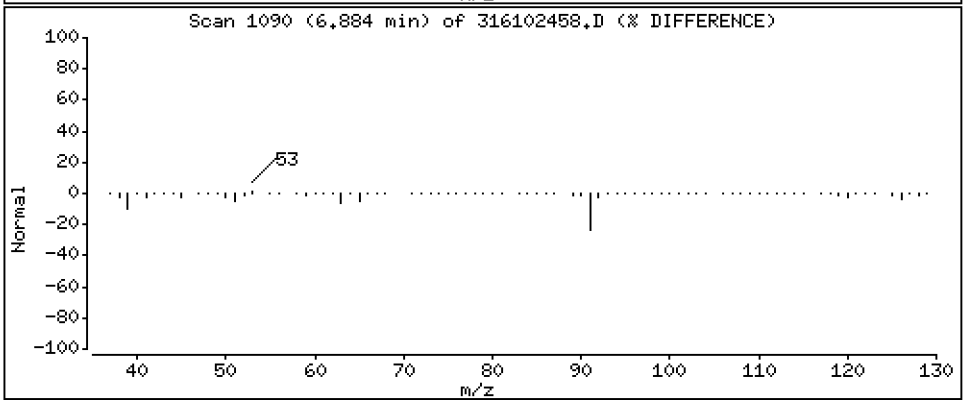
Column phase: DB-VRX Column diameter: 0.25

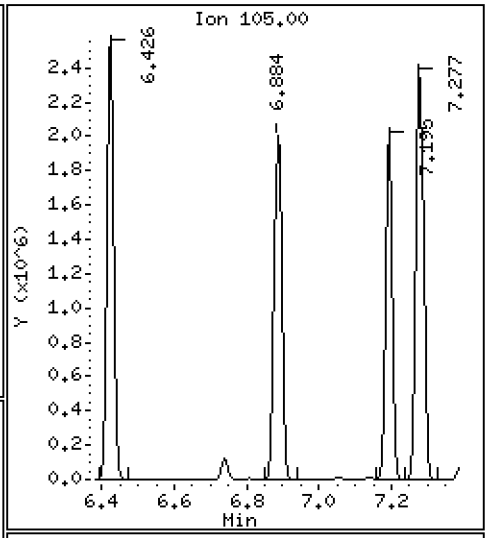
97 1,3,5-Trimethylbenzene Concentration: 100.491 ug/L

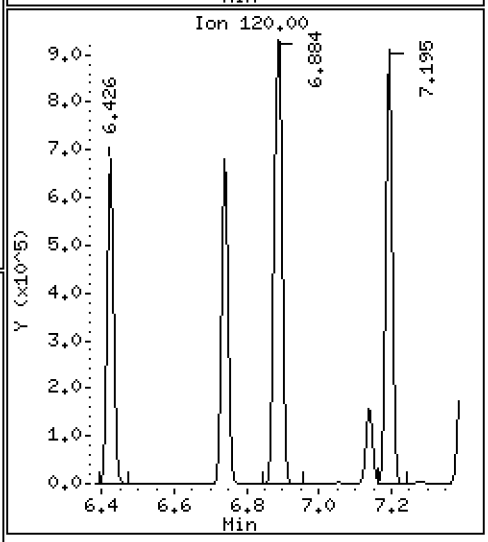












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 100

Date : 25-OCT-2016 01:14

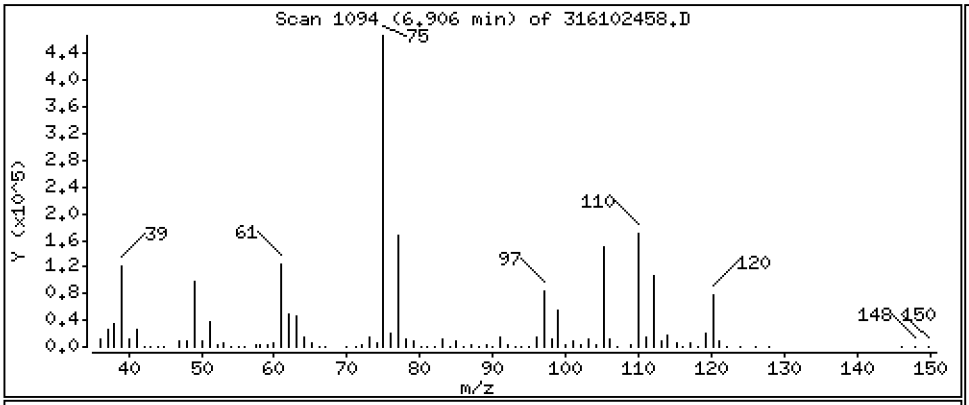
Client ID: Instrument: ms03.i

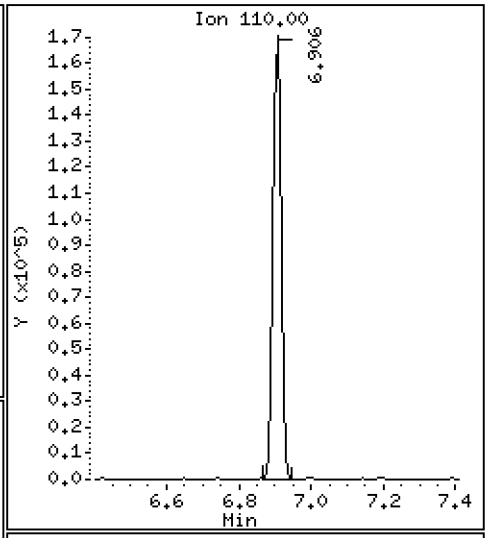
Sample Info: 1238;;1;1;5;;;

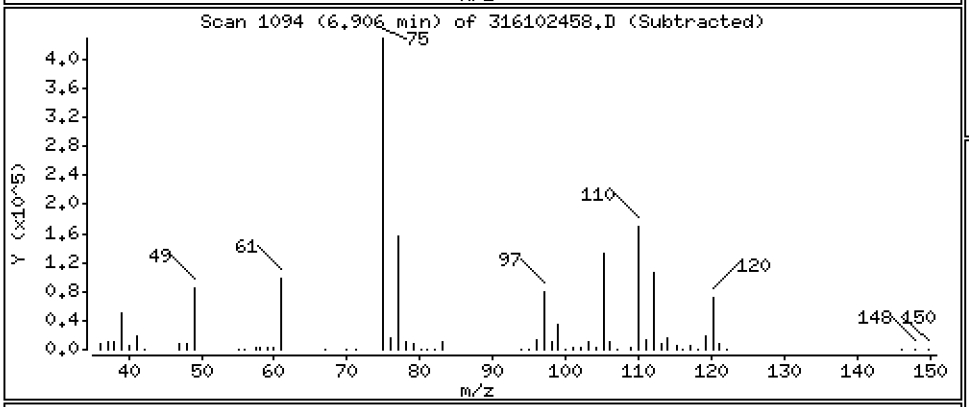
Purge Volume: 5.0 Operator: CJG

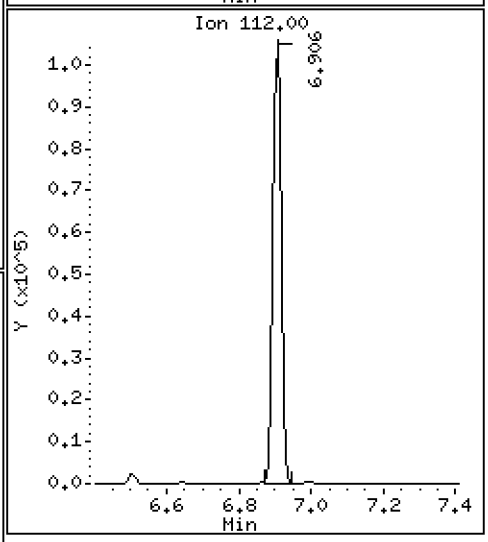
Column phase: DB-VRX Column diameter: 0.25

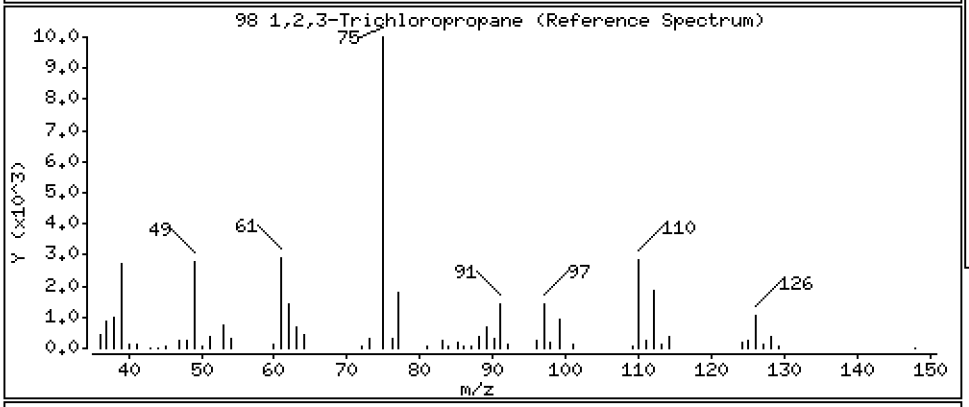
98 1,2,3-Trichloropropane Concentration: 99.0532 ug/L

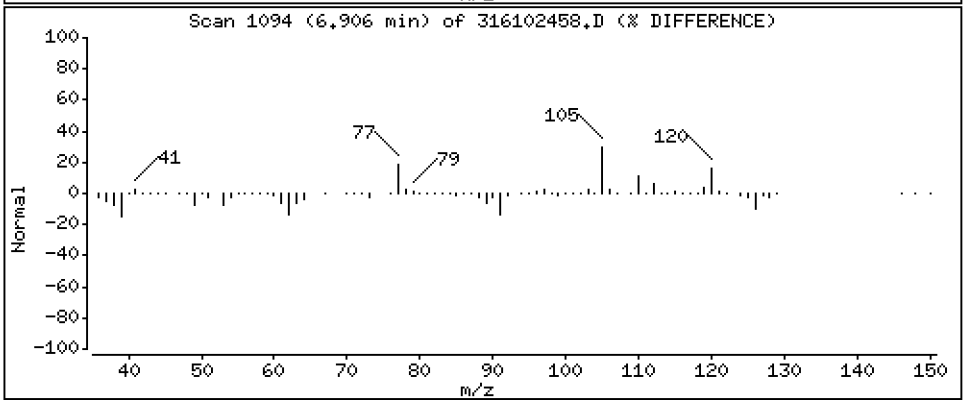












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 101

Date : 25-OCT-2016 01:14

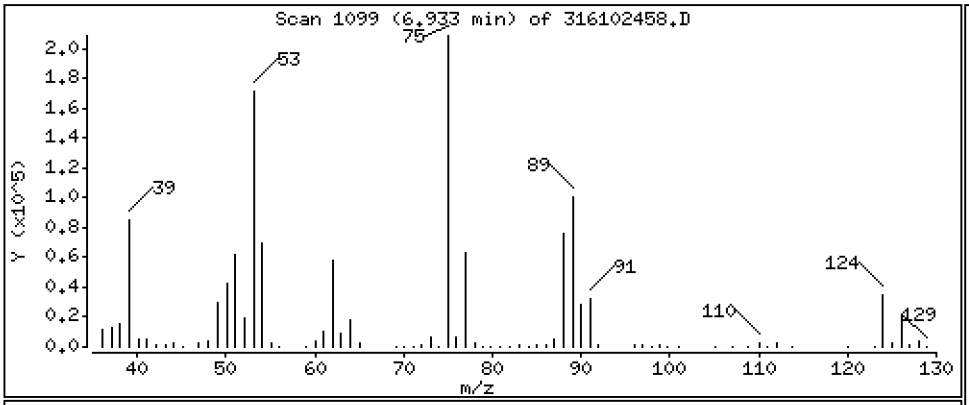
Client ID: Instrument: ms03.i

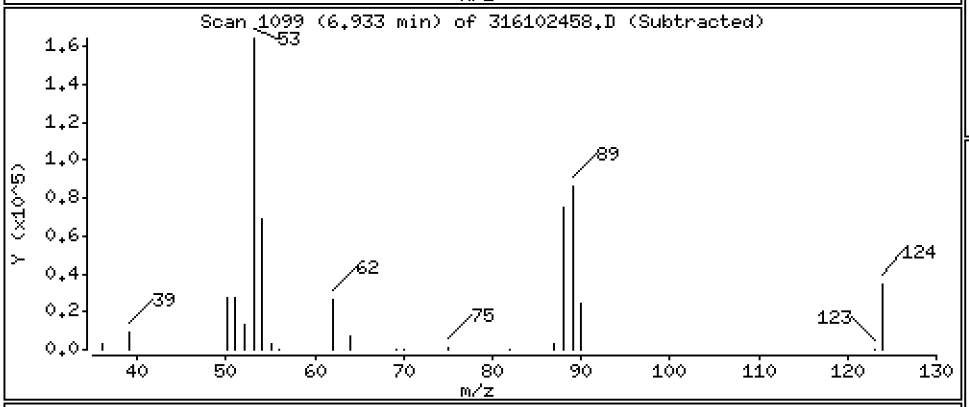
Sample Info: 1238;;1;1;5;;;

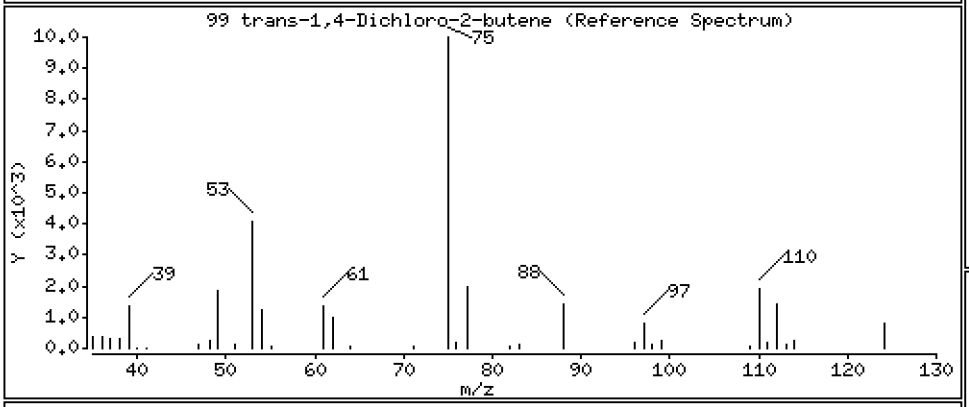
Purge Volume: 5.0 Operator: CJG

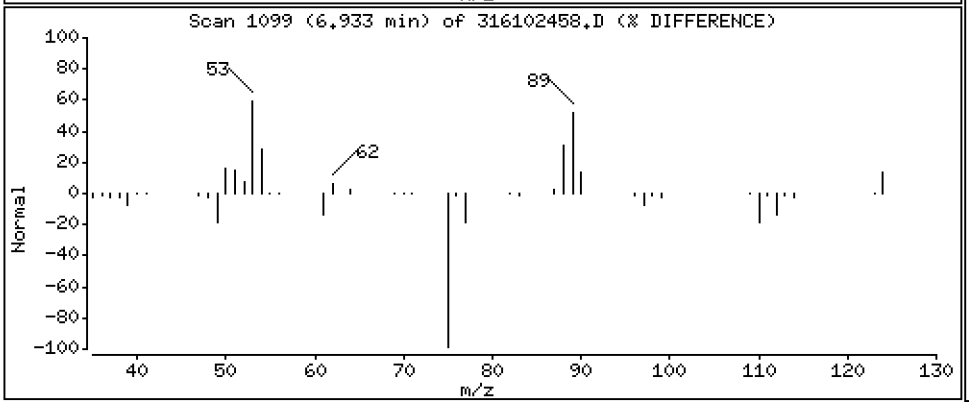
Column phase: DB-VRX Column diameter: 0.25

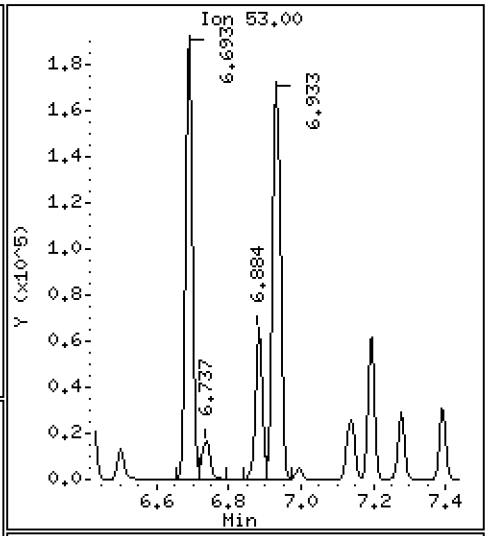
99 trans-1,4-Dichloro-2-butene Concentration: 100.833 ug/L

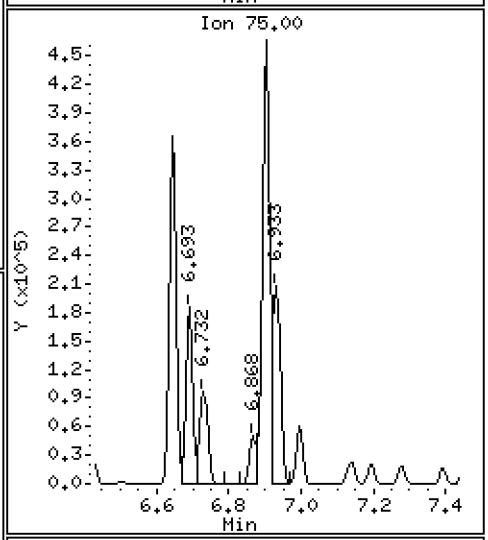


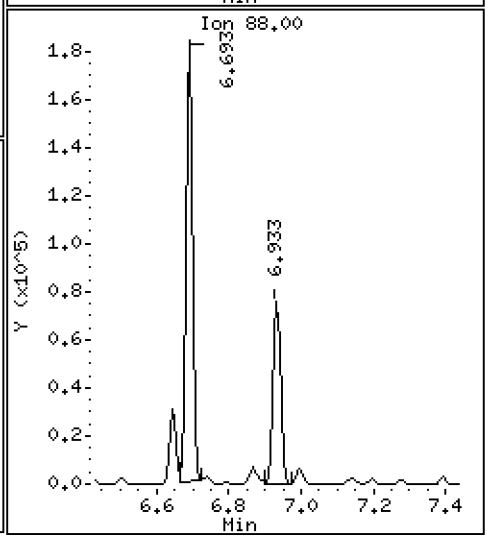












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 102

Date : 25-OCT-2016 01:14

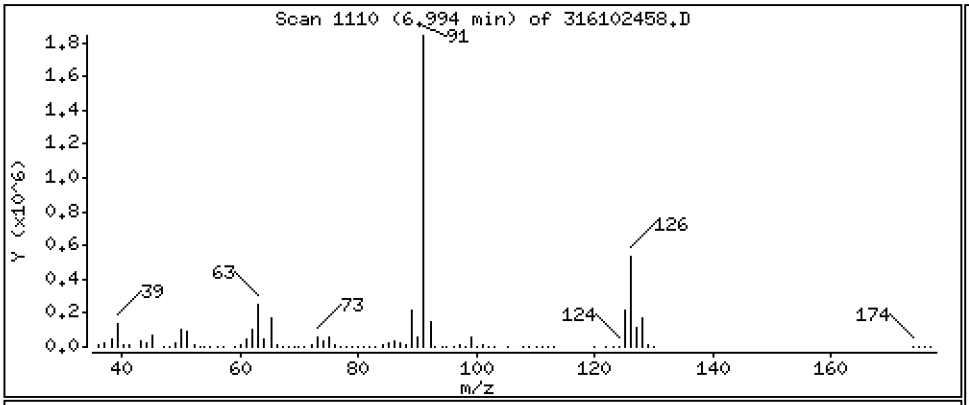
Client ID: Instrument: ms03.i

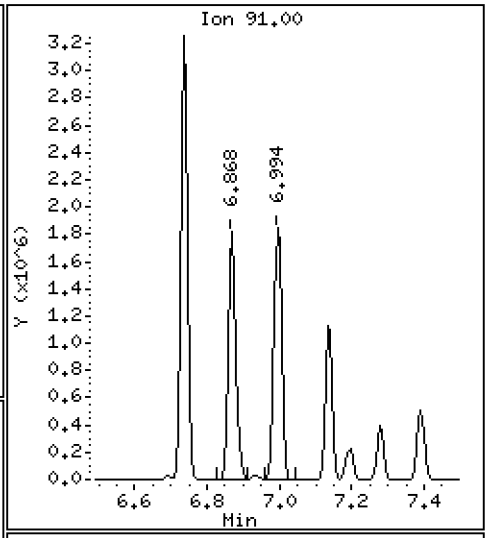
Sample Info: 1238;;1;1;5;;;

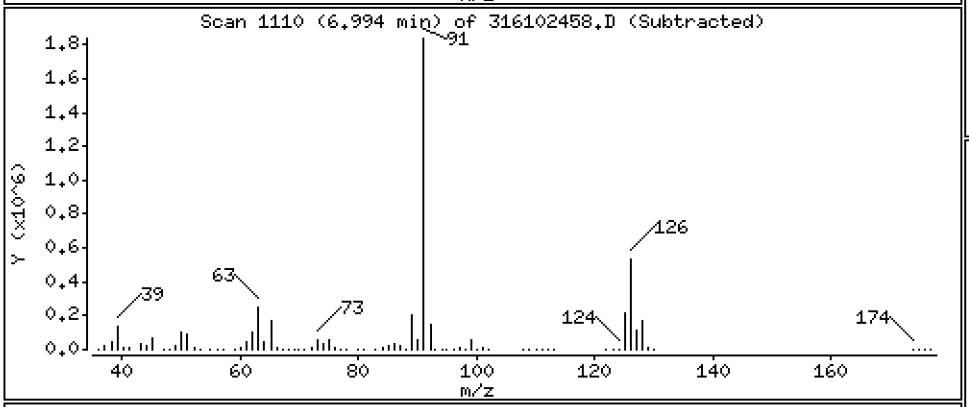
Purge Volume: 5.0 Operator: CJG

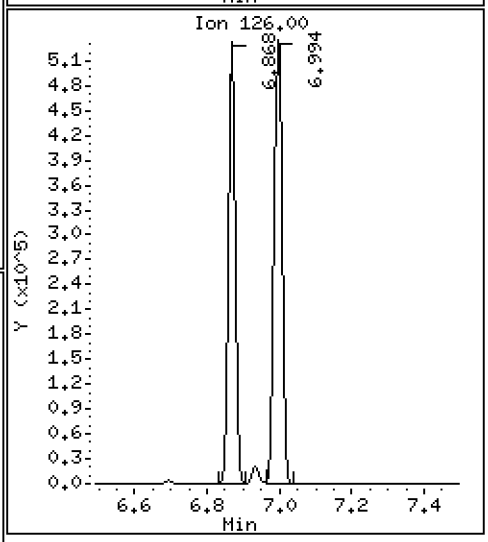
Column phase: DB-VRX Column diameter: 0.25

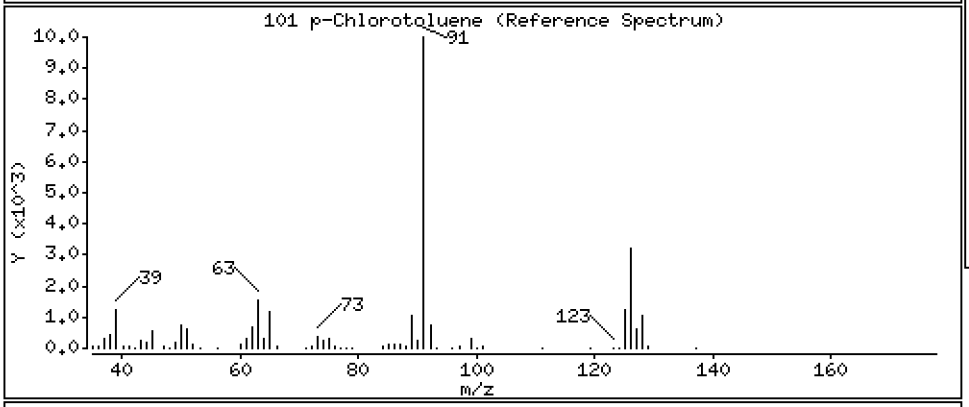
101 p-Chlorotoluene Concentration: 100.674 ug/L

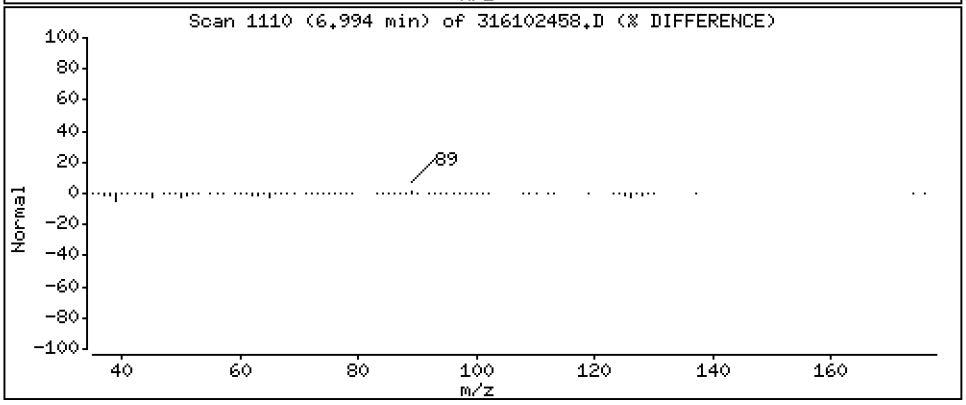












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 103

Date : 25-OCT-2016 01:14

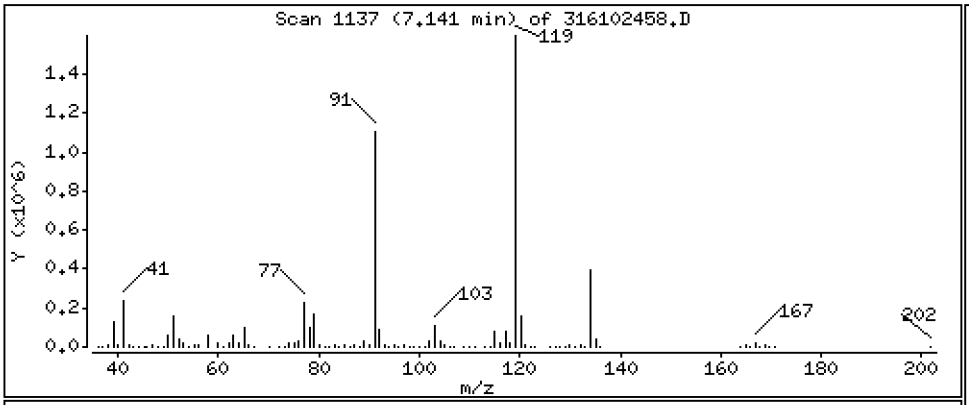
Client ID: Instrument: ms03.i

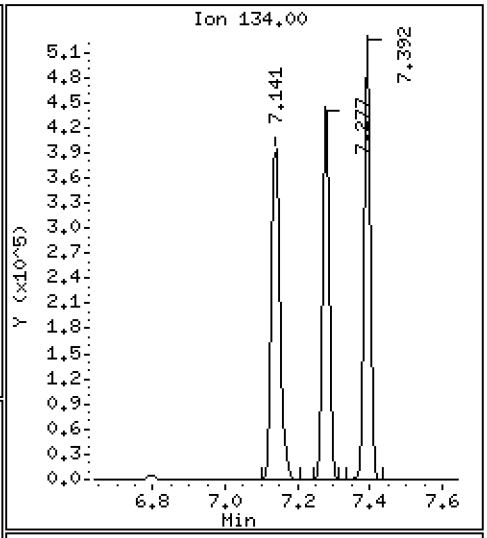
Sample Info: 1238;;1;1;5;;;

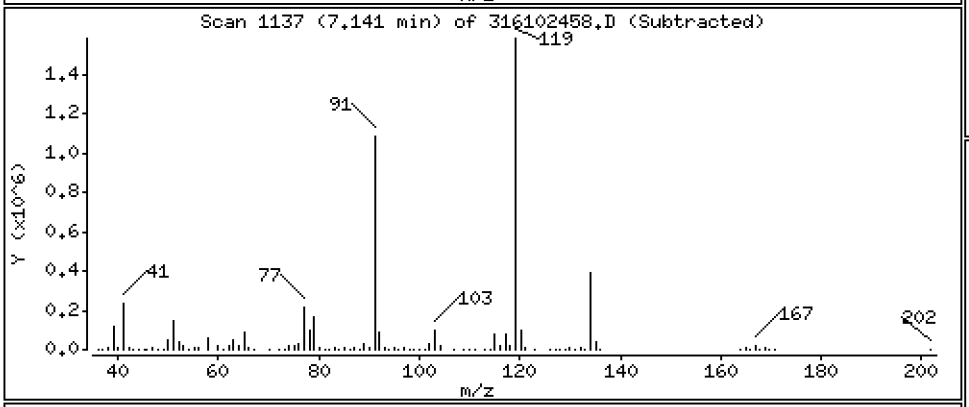
Purge Volume: 5.0 Operator: CJG

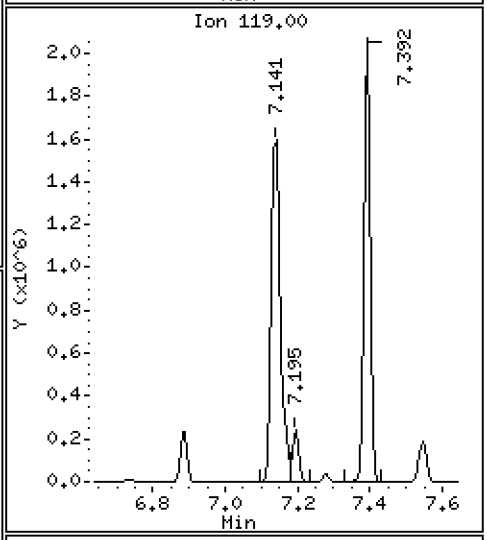
Column phase: DB-VRX Column diameter: 0.25

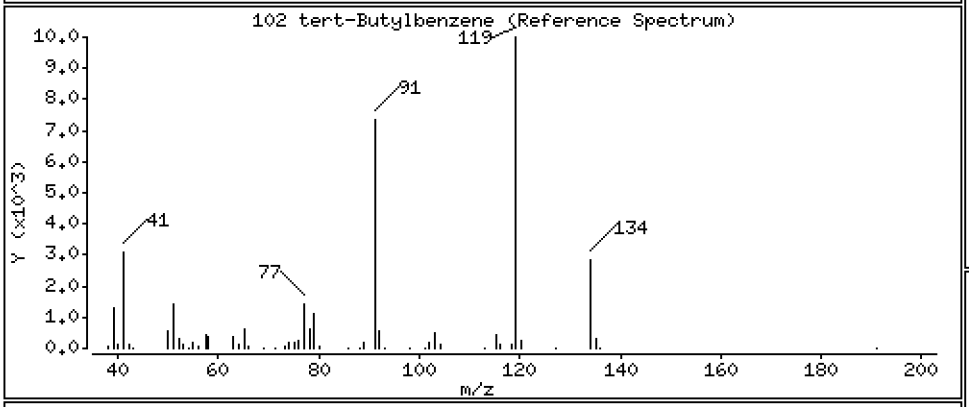
102 tert-Butylbenzene Concentration: 100.552 ug/L

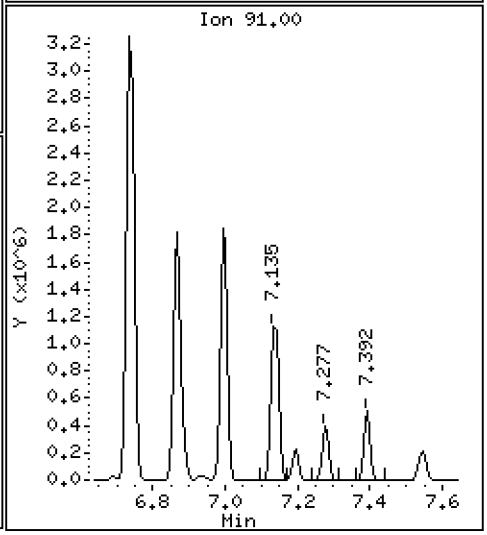


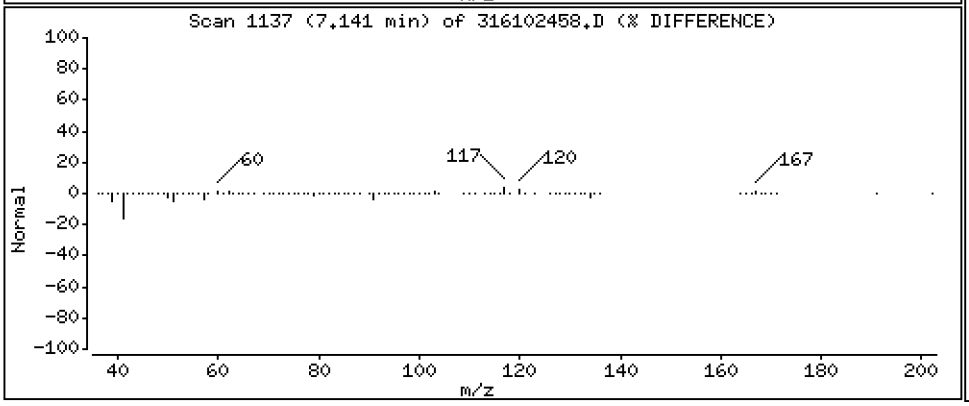












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 104

Date : 25-OCT-2016 01:14

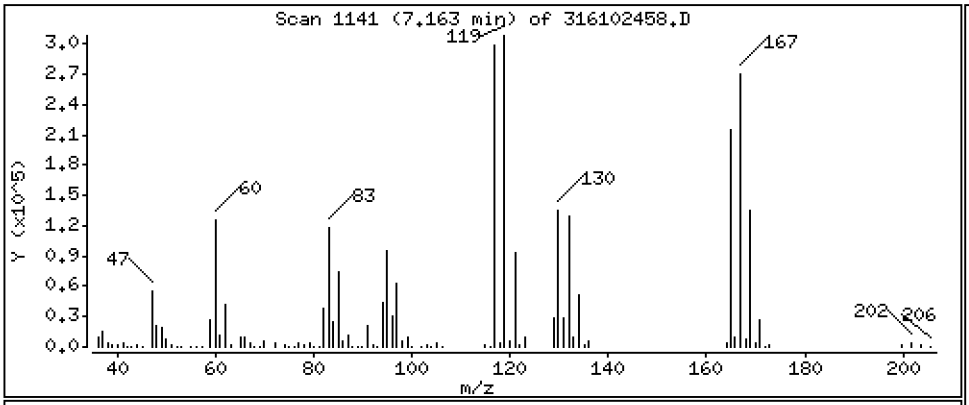
Client ID: Instrument: ms03.i

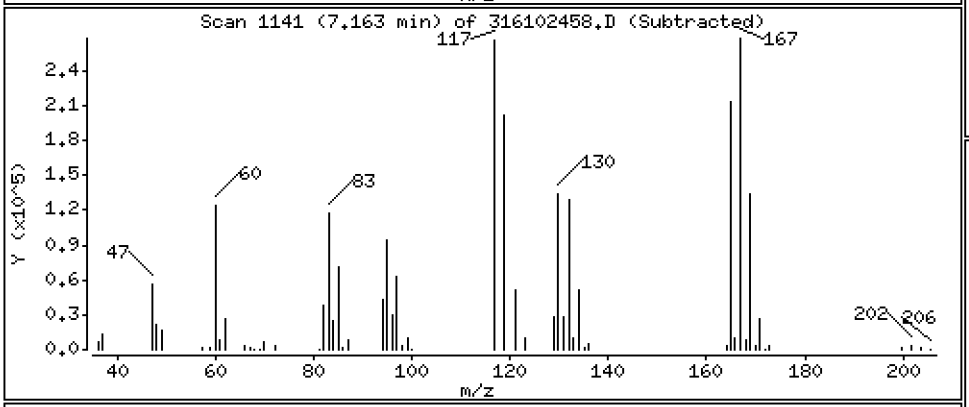
Sample Info: 1238;;1;1;5;;;

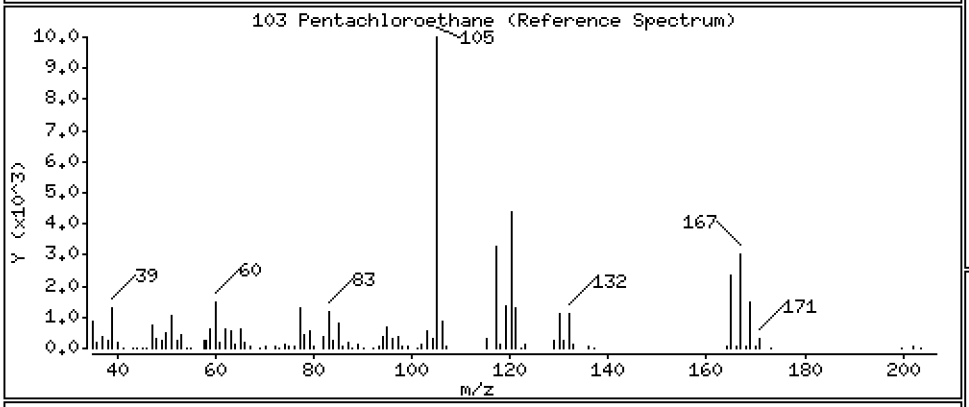
Purge Volume: 5.0 Operator: CJG

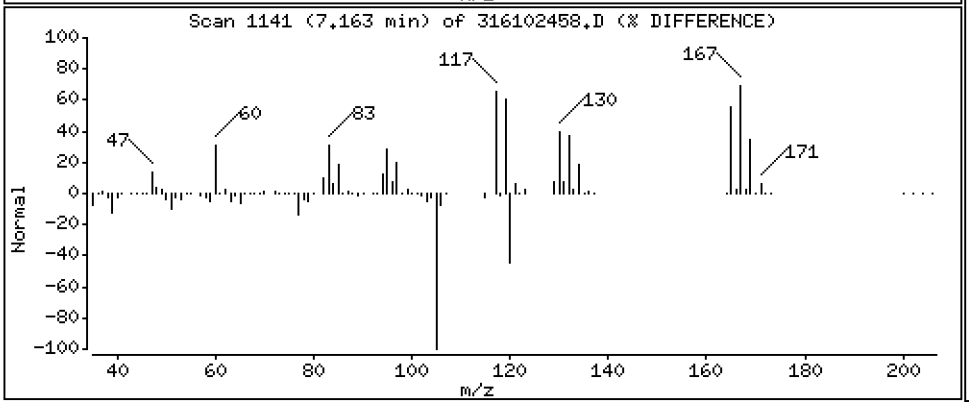
Column phase: DB-VRX Column diameter: 0.25

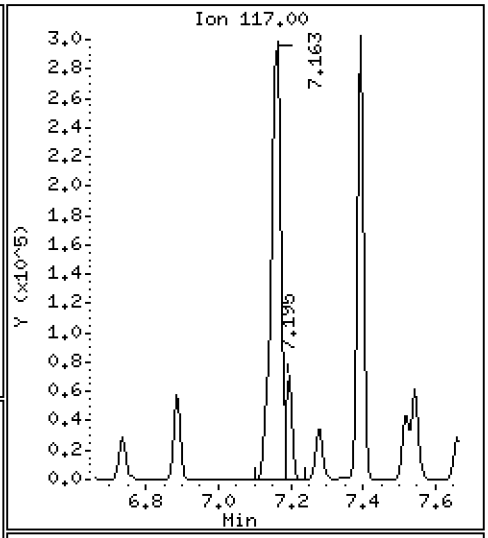
103 Pentachloroethane Concentration: 101.119 ug/L

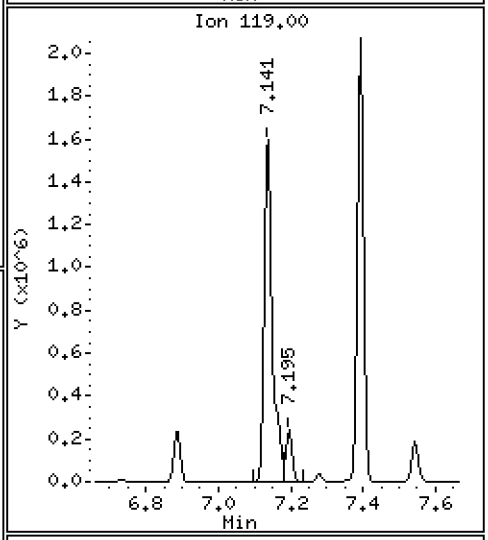


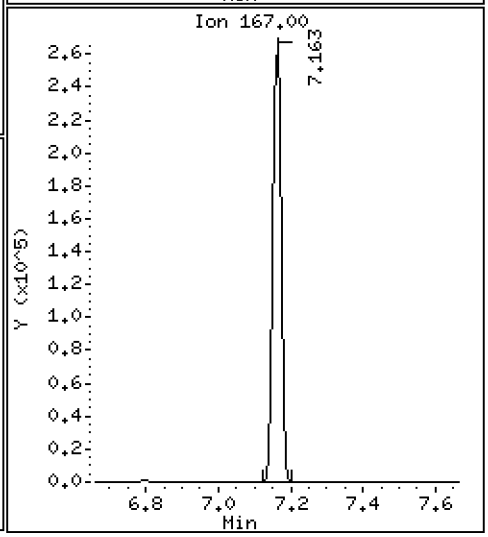












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 105

Date : 25-OCT-2016 01:14

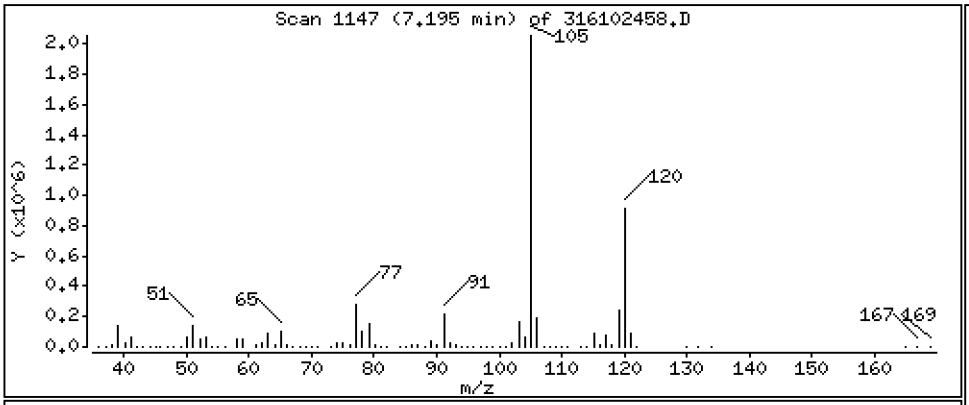
Client ID: Instrument: ms03.i

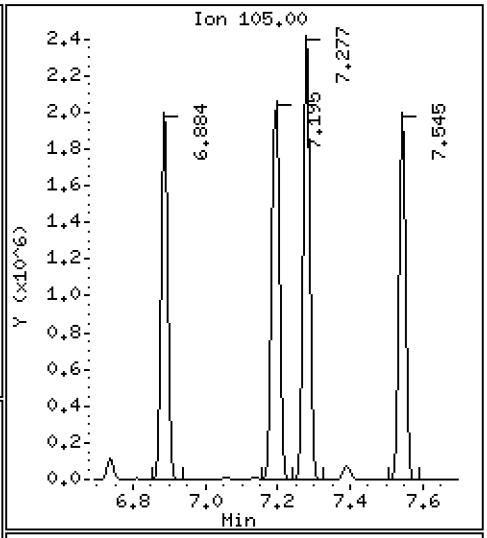
Sample Info: 1238;;1;1;5;;;

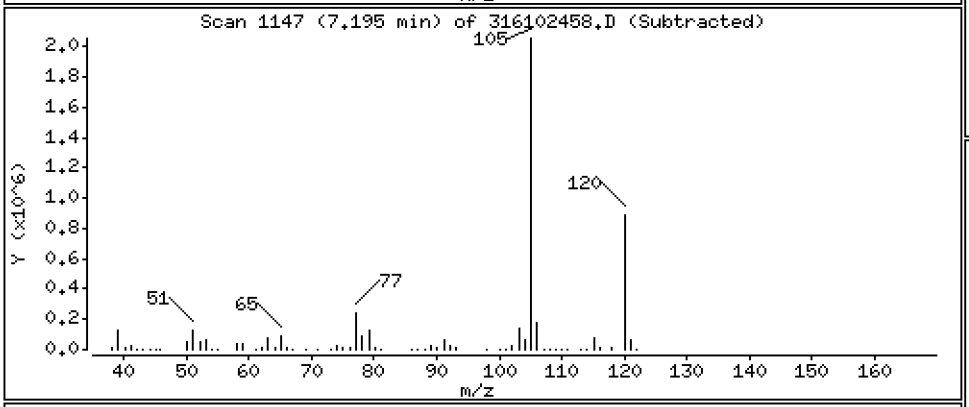
Purge Volume: 5.0 Operator: CJG

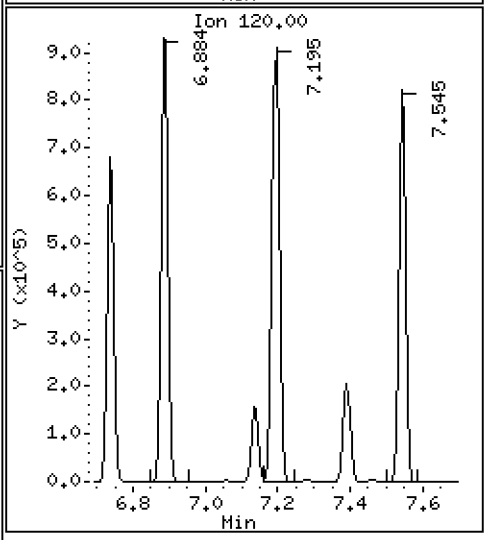
Column phase: DB-VRX Column diameter: 0.25

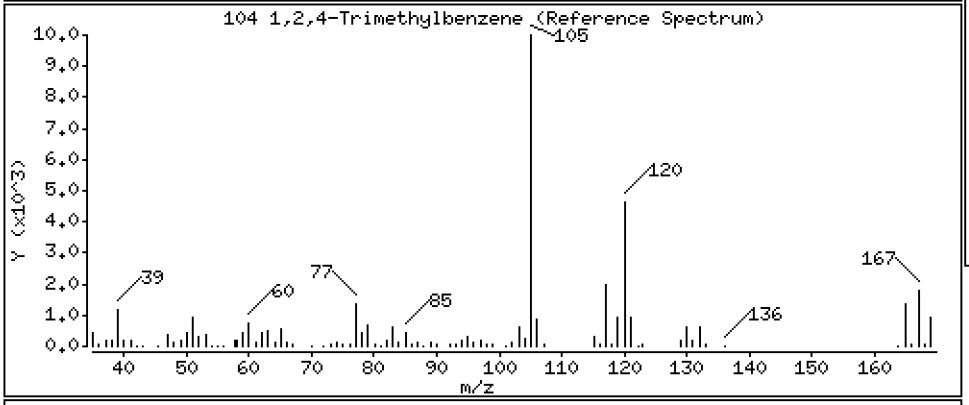
104 1,2,4-Trimethylbenzene Concentration: 100.665 ug/L

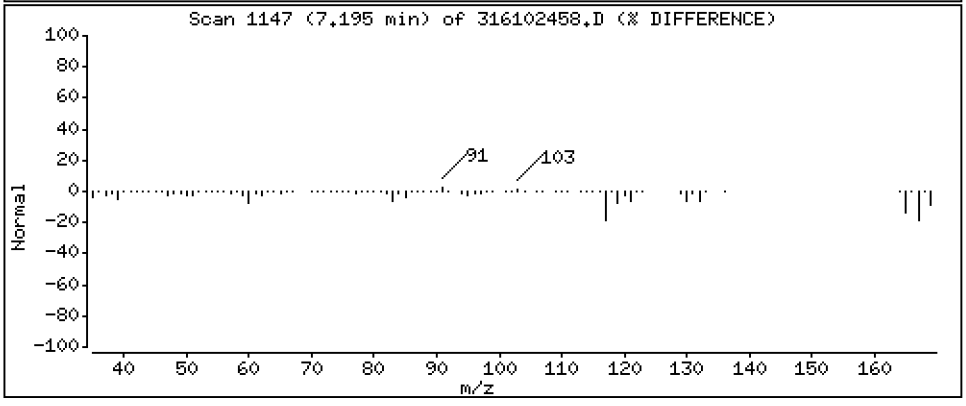












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 106

Date : 25-OCT-2016 01:14

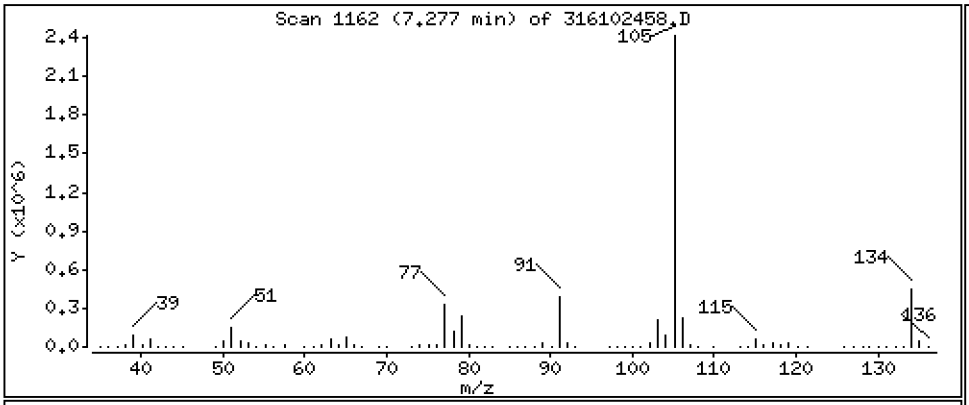
Client ID: Instrument: ms03.i

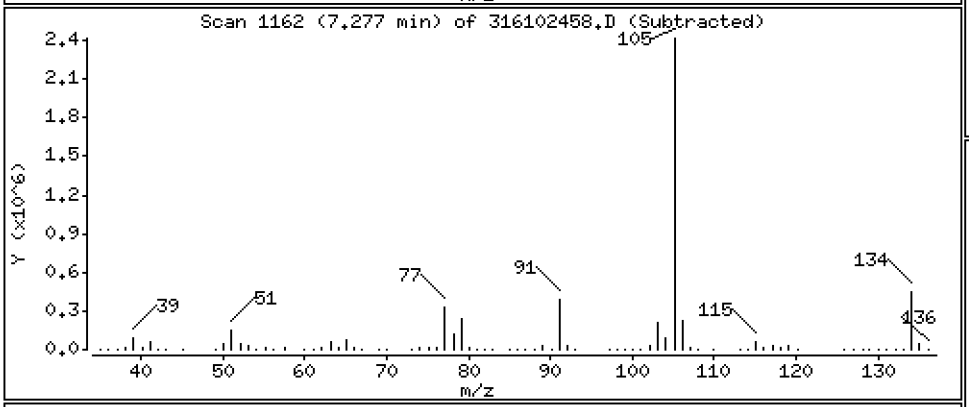
Sample Info: 1238;;1;1;5;;;

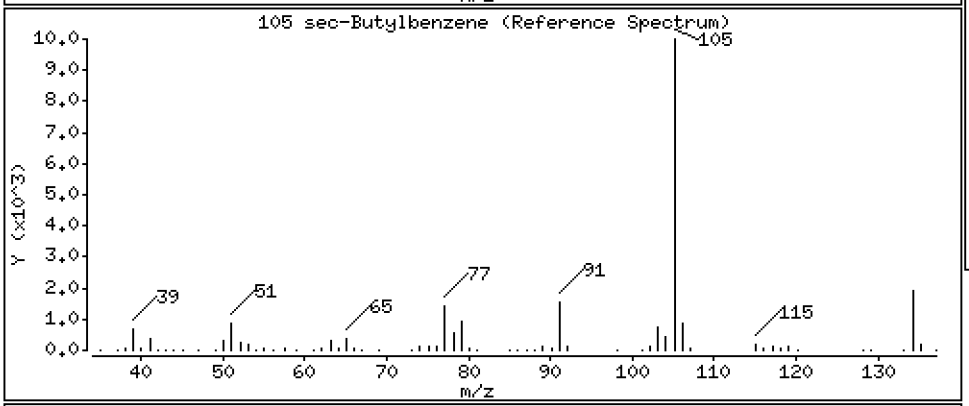
Purge Volume: 5.0 Operator: CJG

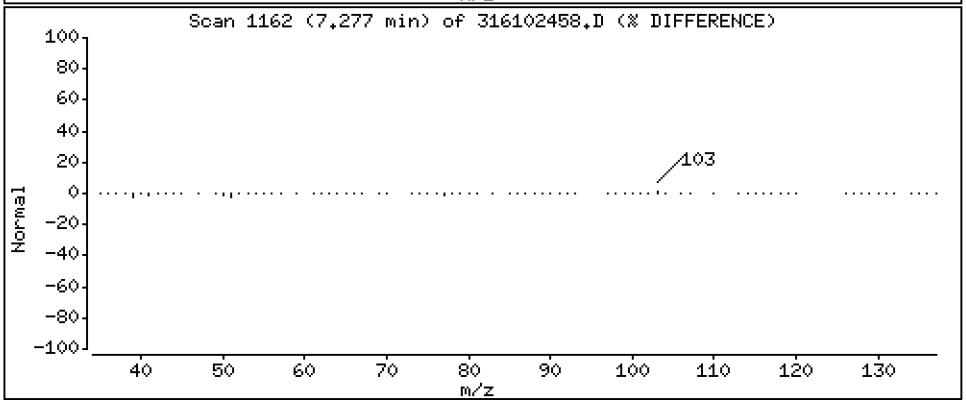
Column phase: DB-VRX Column diameter: 0.25

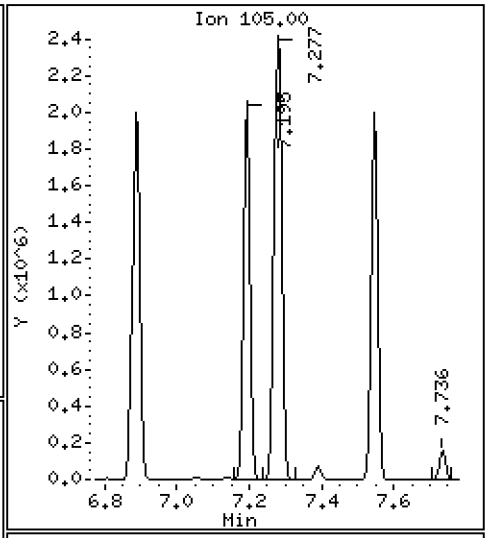
105 sec-Butylbenzene Concentration: 100.901 ug/L

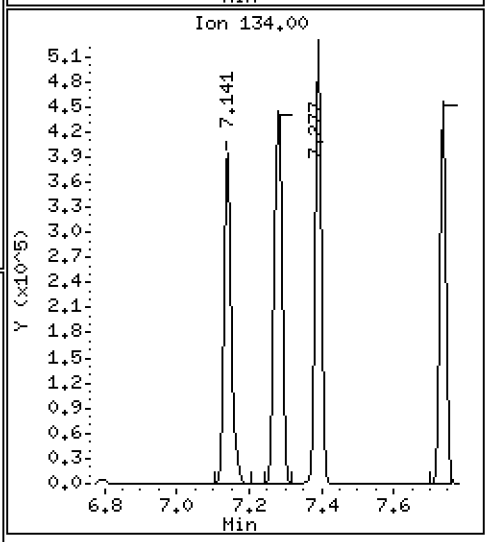












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 107

Date : 25-OCT-2016 01:14

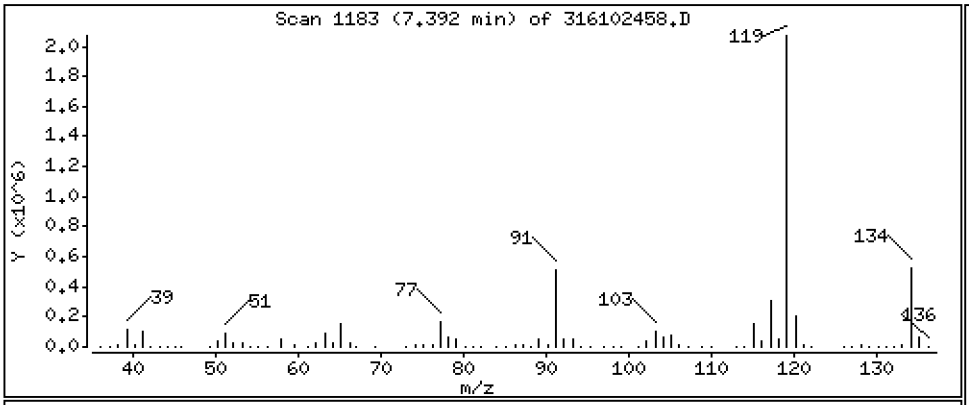
Client ID: Instrument: ms03.i

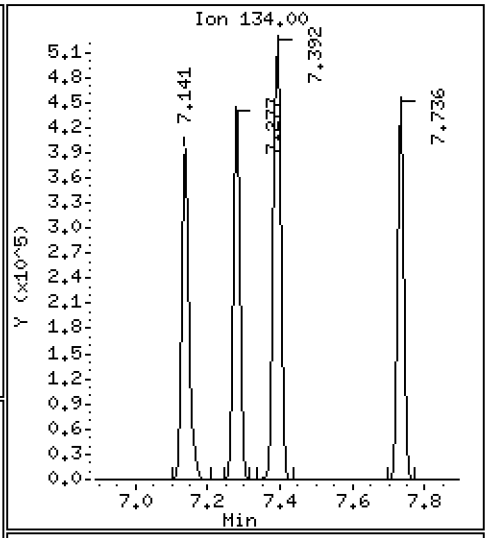
Sample Info: 1238;;1;1;5;;;

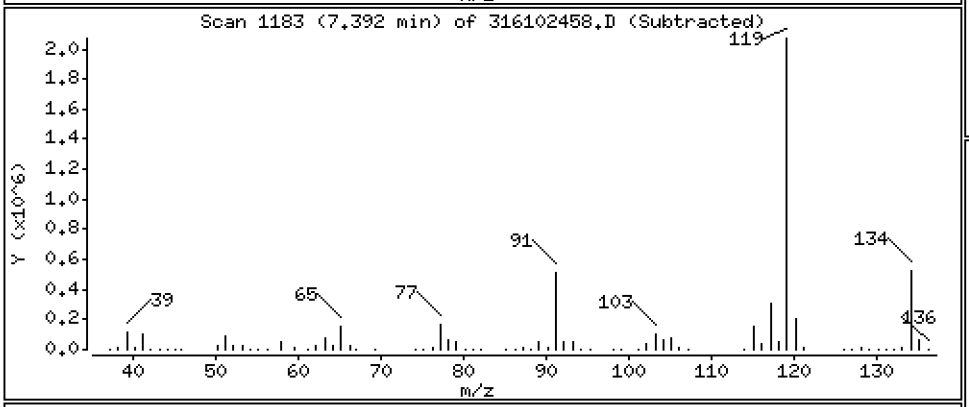
Purge Volume: 5.0 Operator: CJG

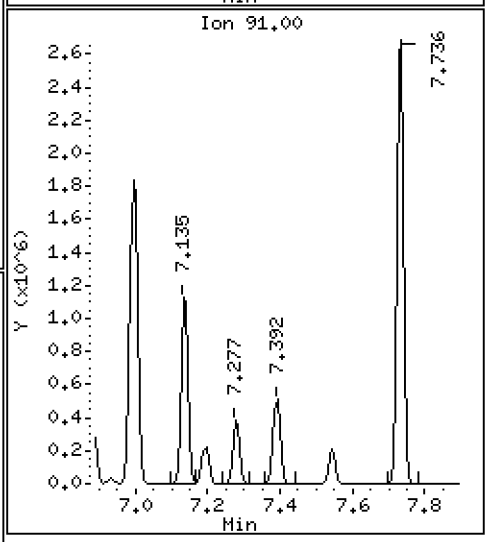
Column phase: DB-VRX Column diameter: 0.25

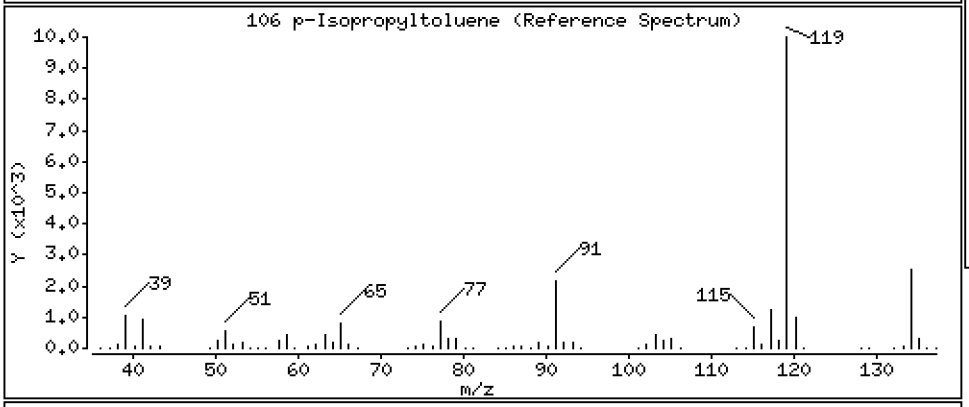
106 p-Isopropyltoluene Concentration: 101.027 ug/L

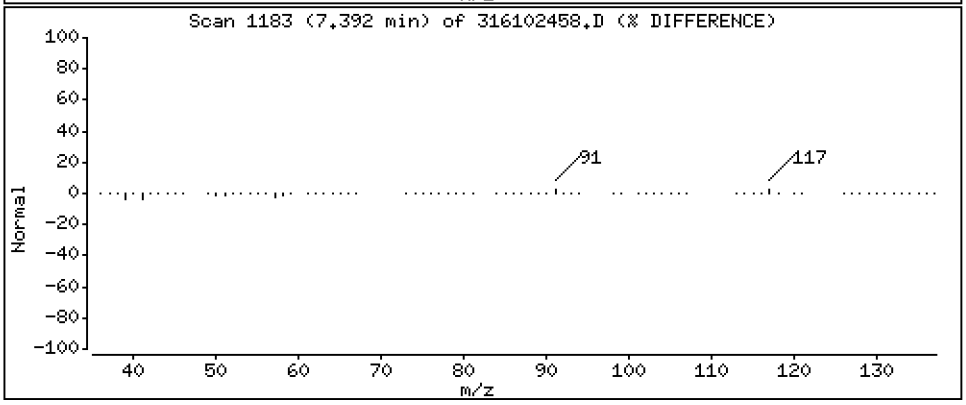












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 108

Date : 25-OCT-2016 01:14

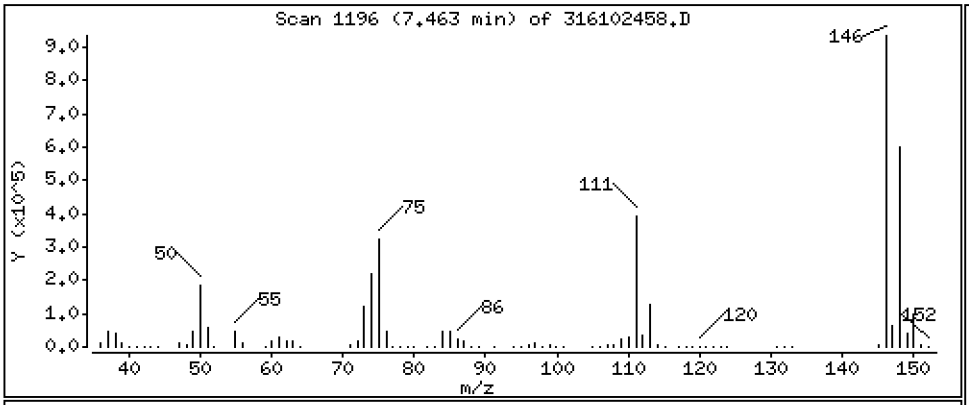
Client ID: Instrument: ms03.i

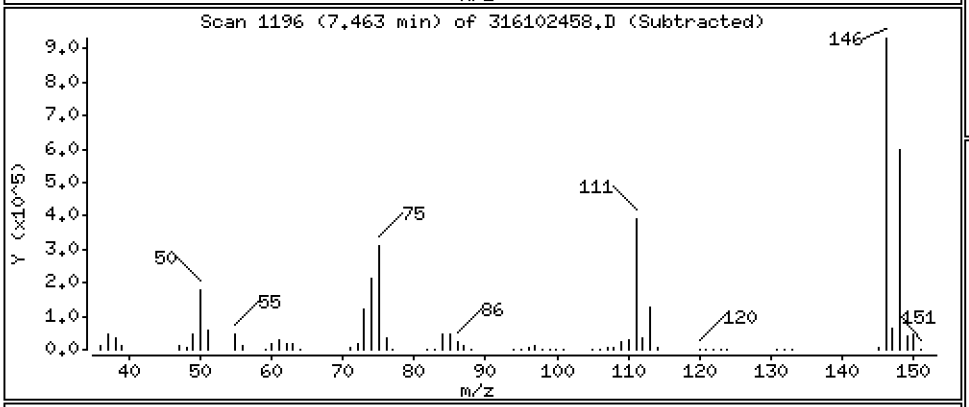
Sample Info: 1238;;1;1;5;;;

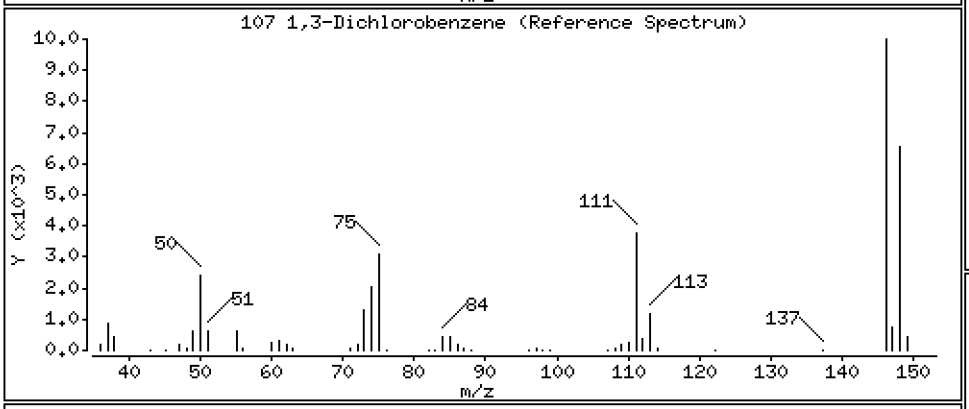
Purge Volume: 5.0 Operator: CJG

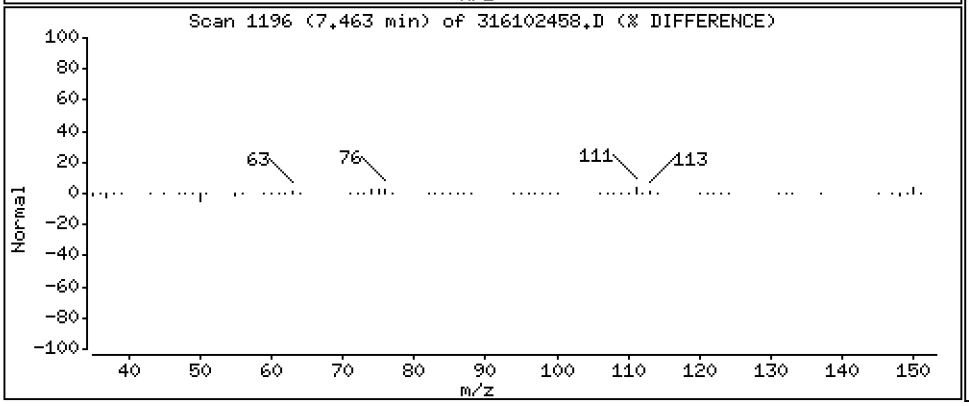
Column phase: DB-VRX Column diameter: 0.25

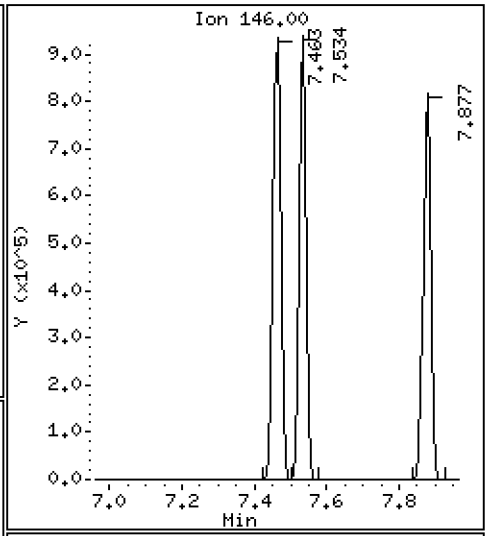
107 1,3-Dichlorobenzene Concentration: 100.742 ug/L

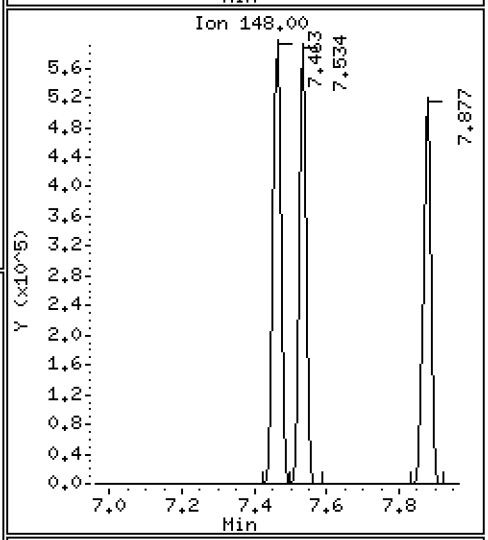


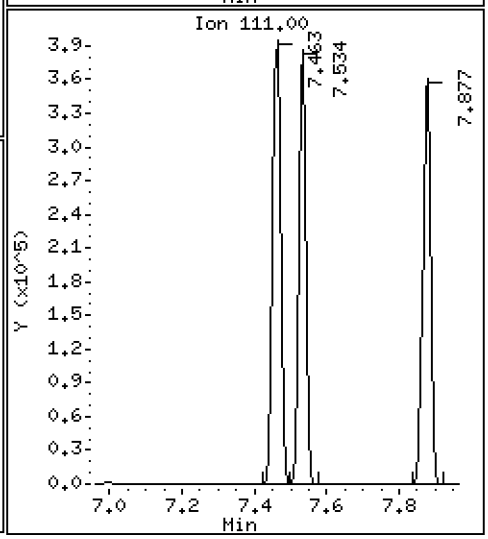












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 109

Date : 25-OCT-2016 01:14

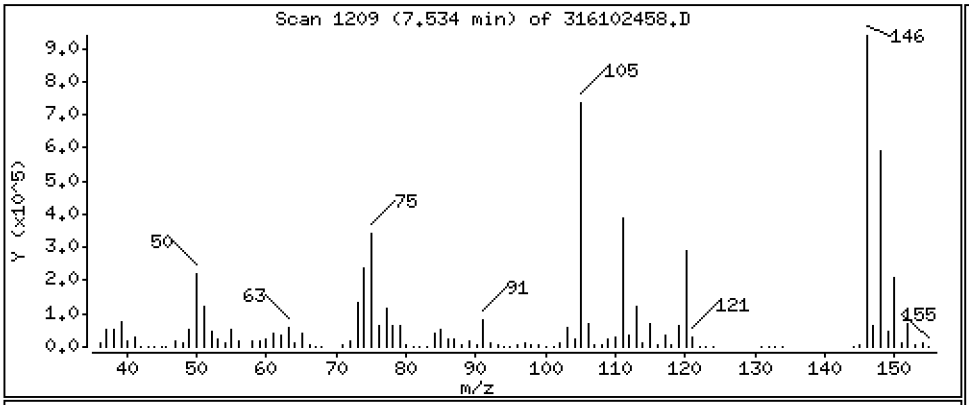
Client ID: Instrument: ms03.i

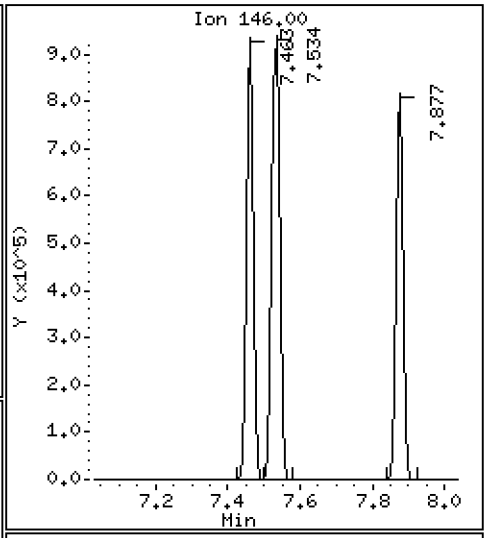
Sample Info: 1238;;1;1;5;;;

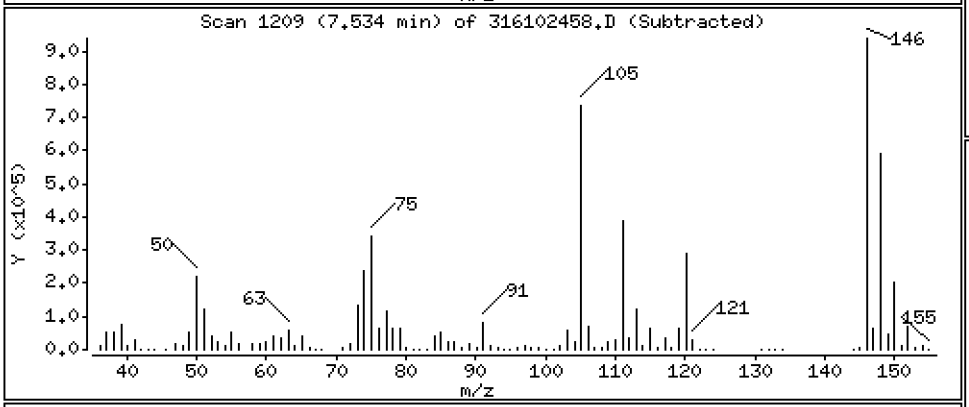
Purge Volume: 5.0 Operator: CJG

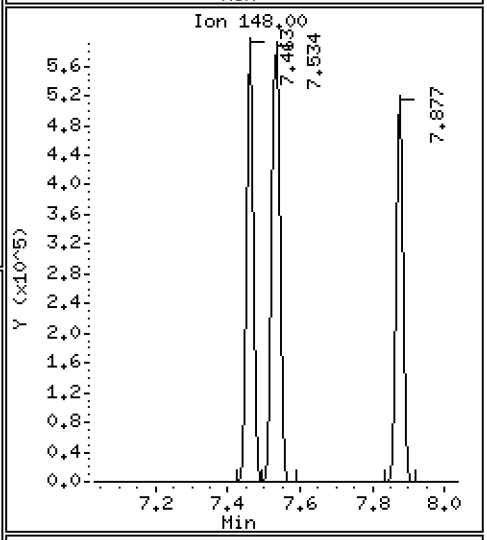
Column phase: DB-VRX Column diameter: 0.25

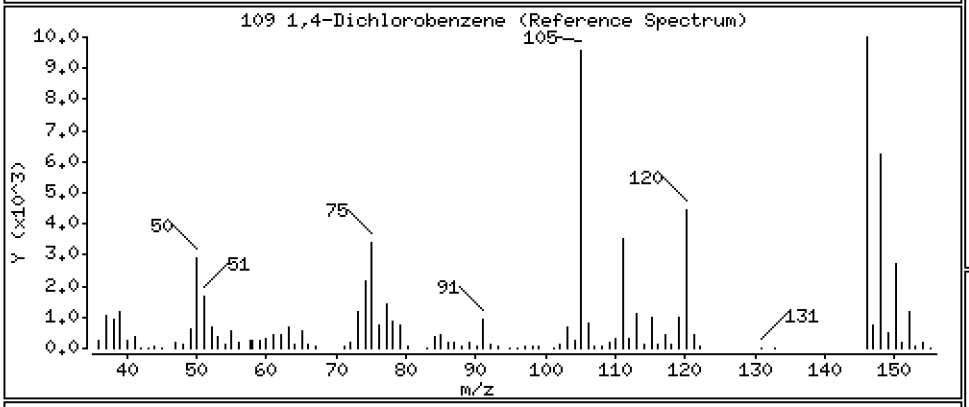
109 1,4-Dichlorobenzene Concentration: 100.428 ug/L

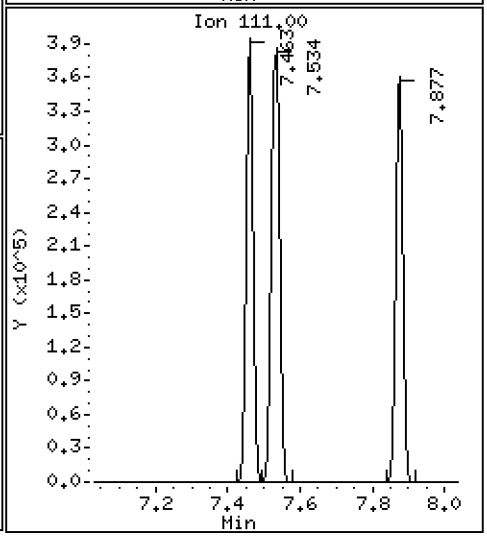


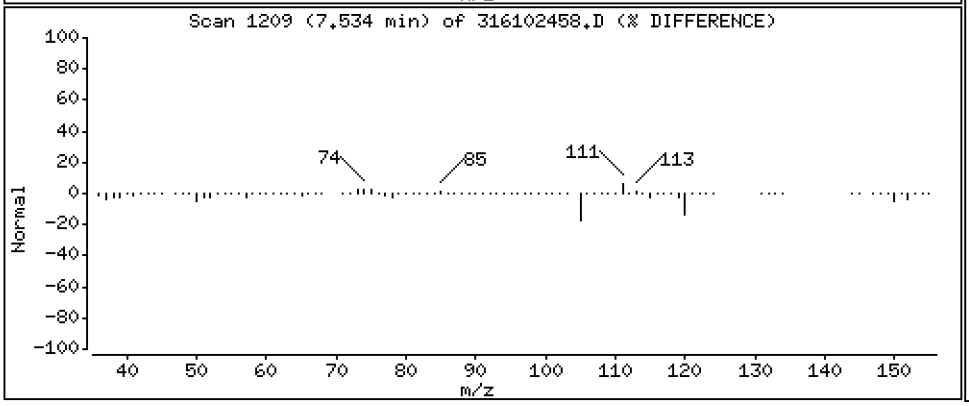












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 110

Date : 25-OCT-2016 01:14

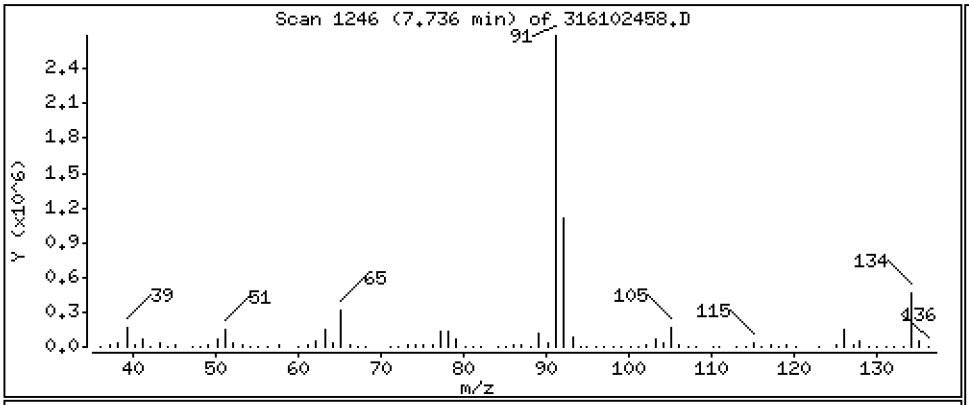
Client ID: Instrument: ms03.i

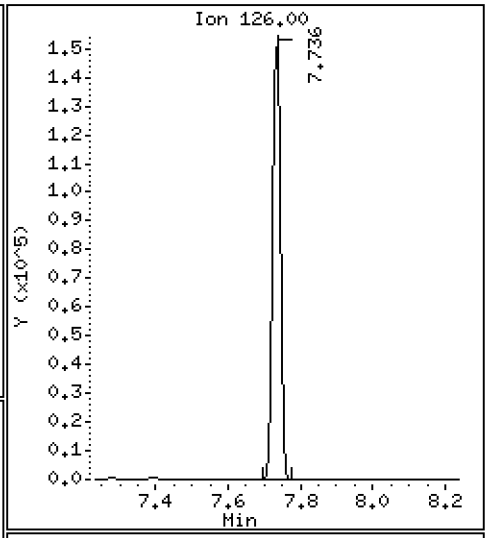
Sample Info: 1238;;1;1;5;;;

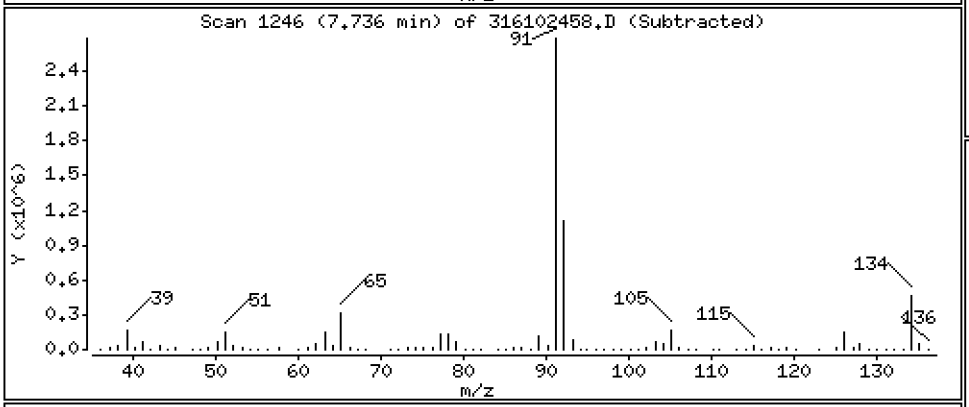
Purge Volume: 5.0 Operator: CJG

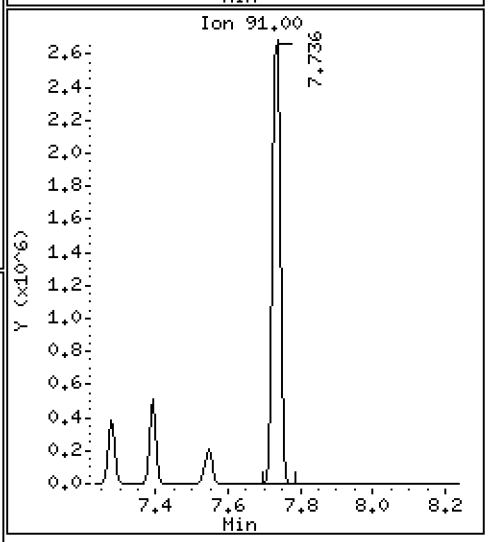
Column phase: DB-VRX Column diameter: 0.25

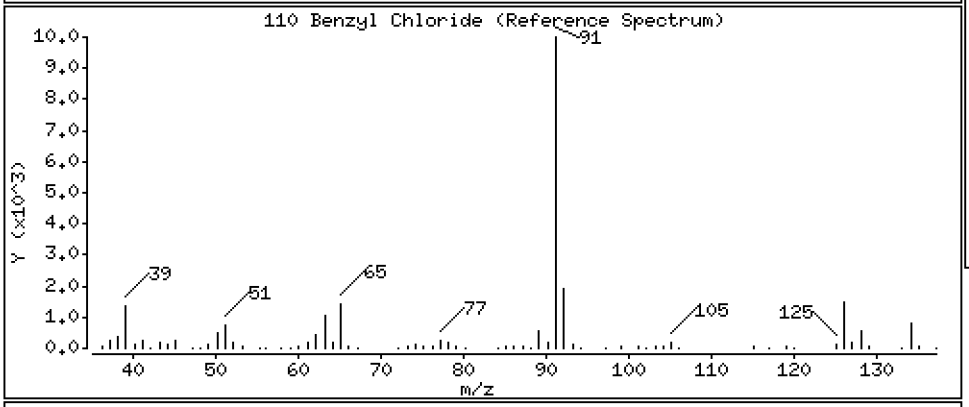
110 Benzyl Chloride Concentration: 102.375 ug/L

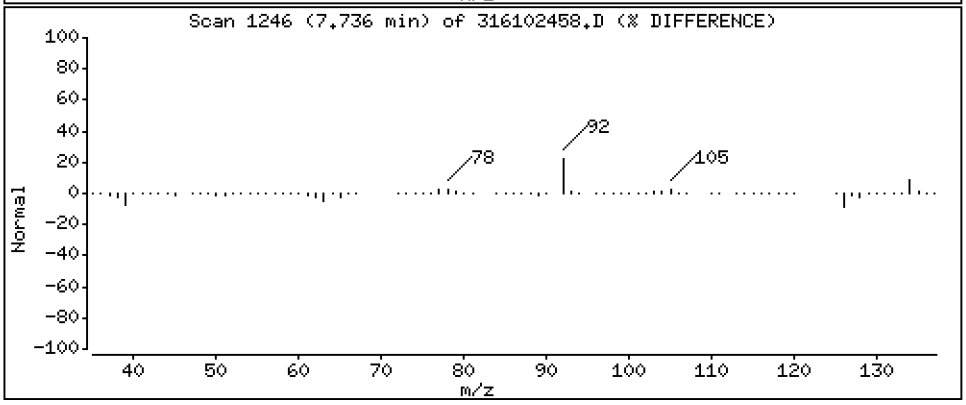












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 111

Date : 25-OCT-2016 01:14

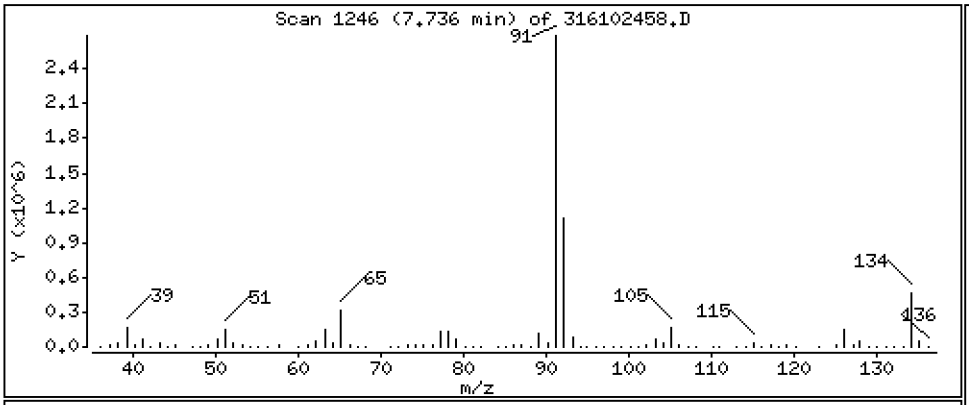
Client ID: Instrument: ms03.i

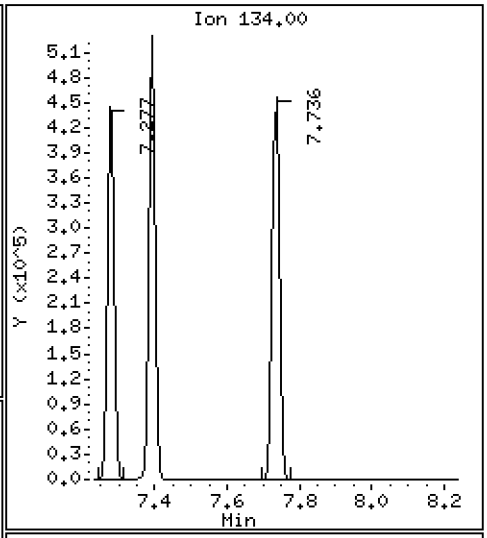
Sample Info: 1238;;1;1;5;;;

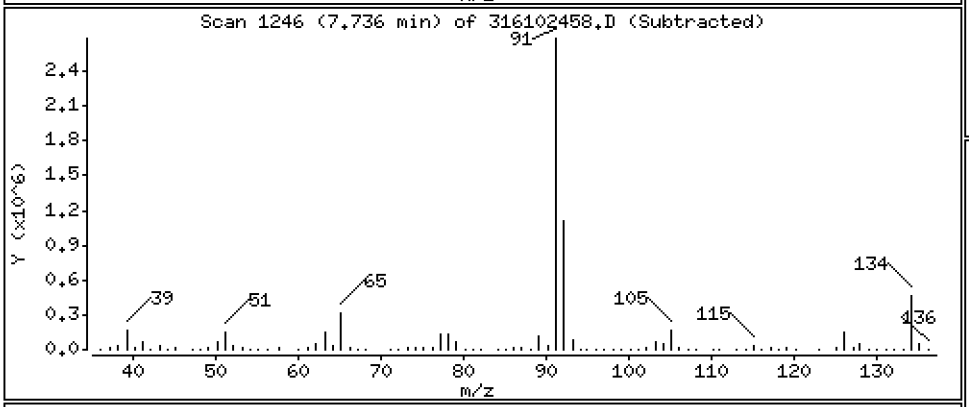
Purge Volume: 5.0 Operator: CJG

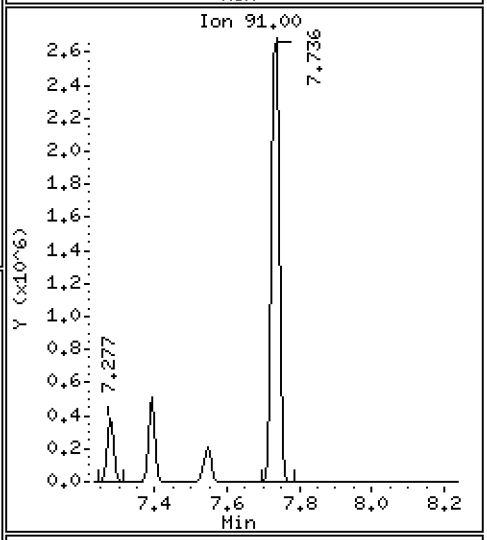
Column phase: DB-VRX Column diameter: 0.25

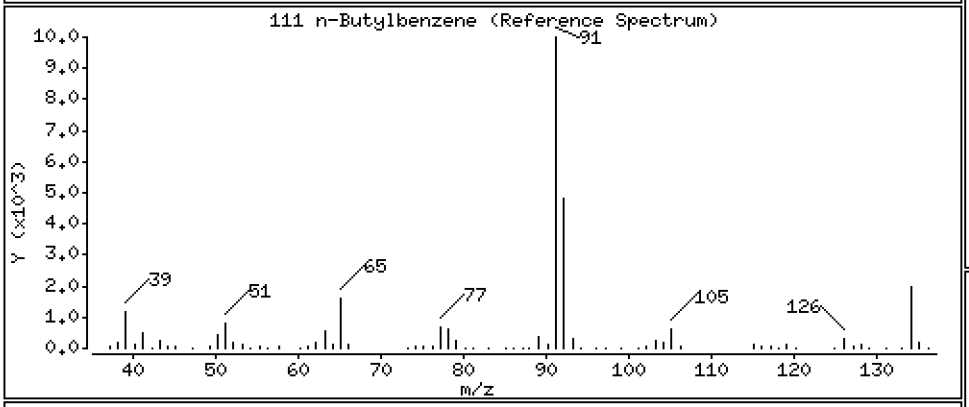
111 n-Butylbenzene Concentration: 101.487 ug/L

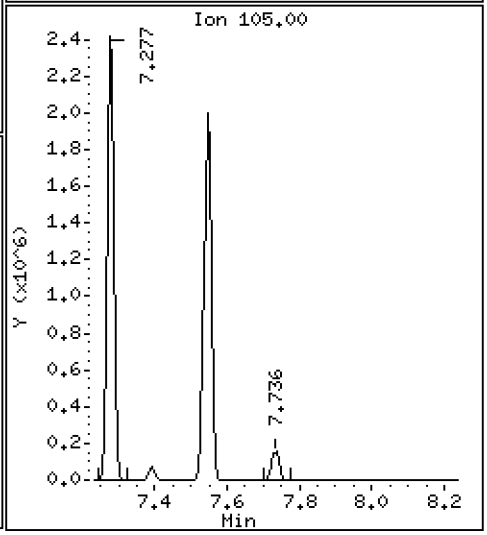


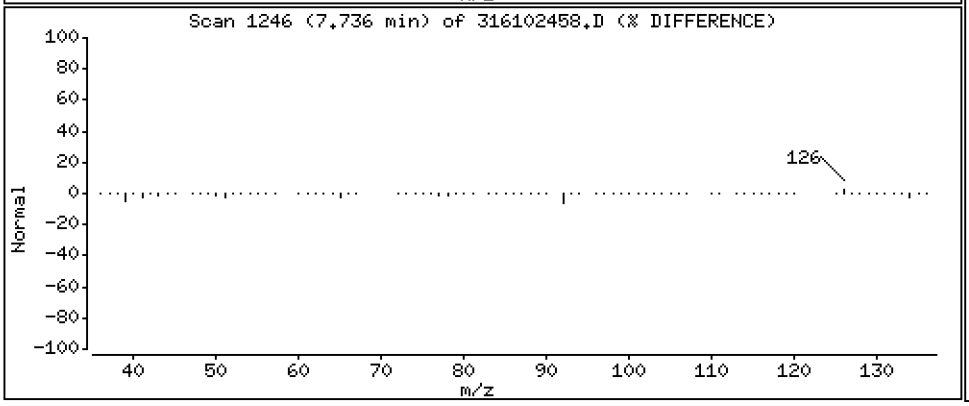












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 112

Date : 25-OCT-2016 01:14

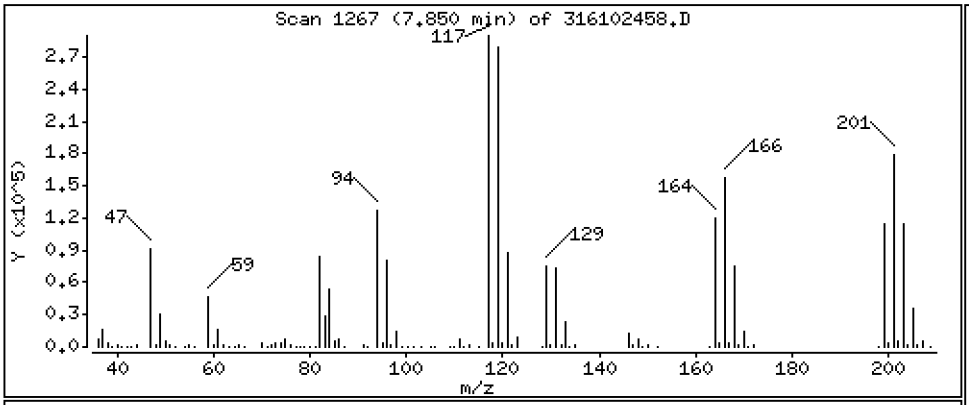
Client ID: Instrument: ms03.i

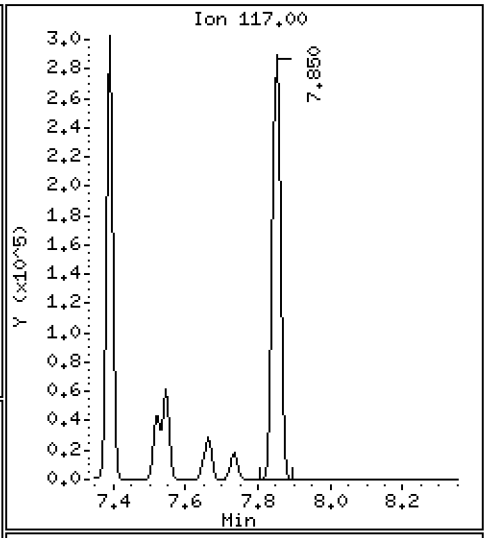
Sample Info: 1238;;1;1;5;;;

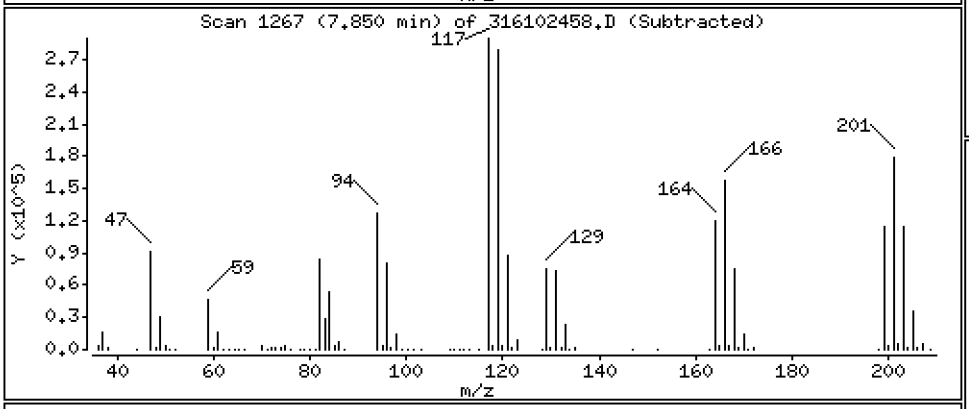
Purge Volume: 5.0 Operator: CJG

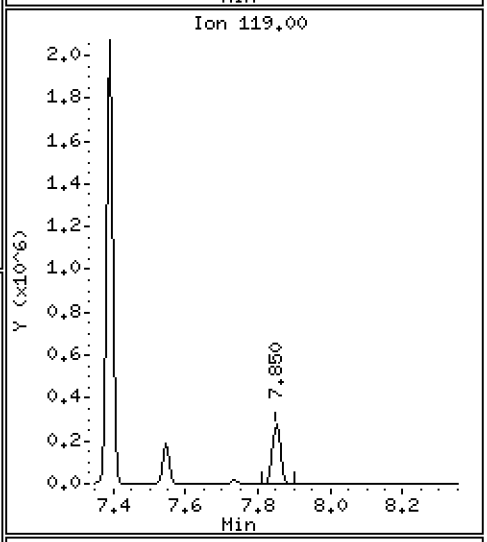
Column phase: DB-VRX Column diameter: 0.25

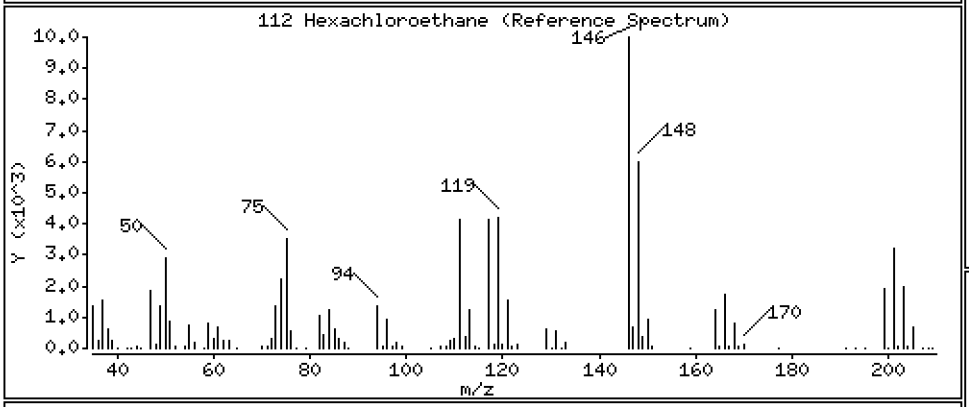
112 Hexachloroethane Concentration: 102.592 ug/L

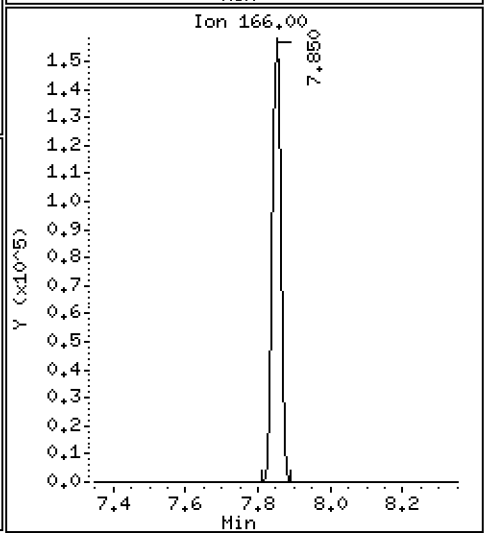


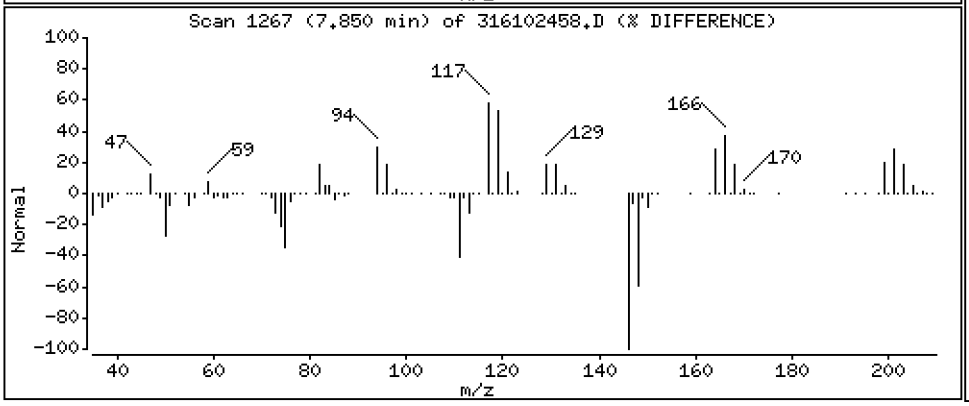












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 113

Date : 25-OCT-2016 01:14

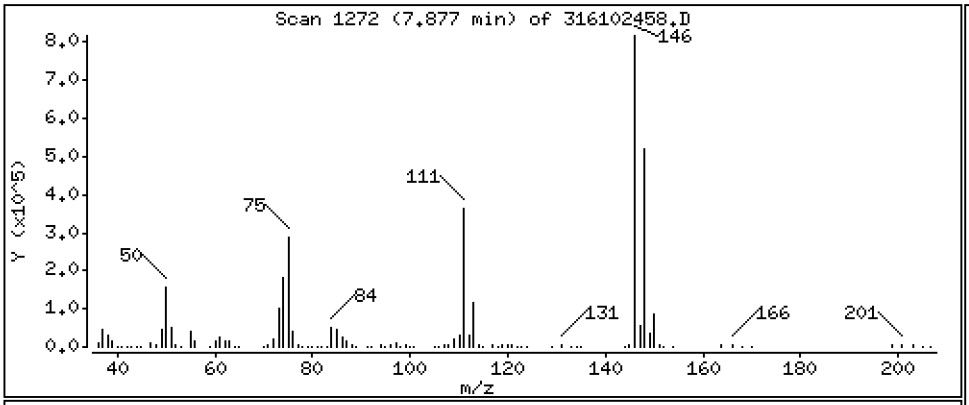
Client ID: Instrument: ms03.i

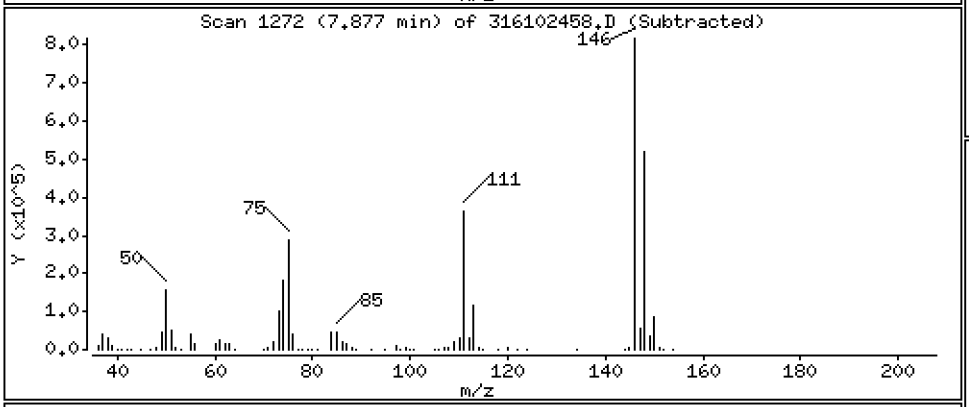
Sample Info: 1238;;1;1;5;;;

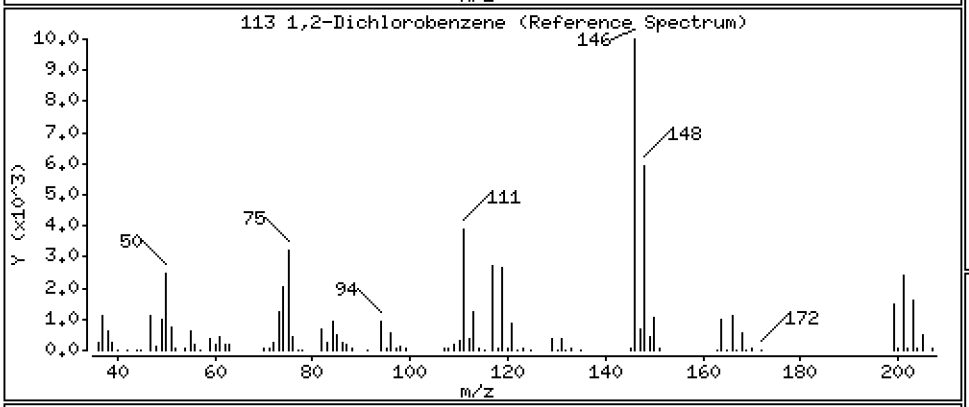
Purge Volume: 5.0 Operator: CJG

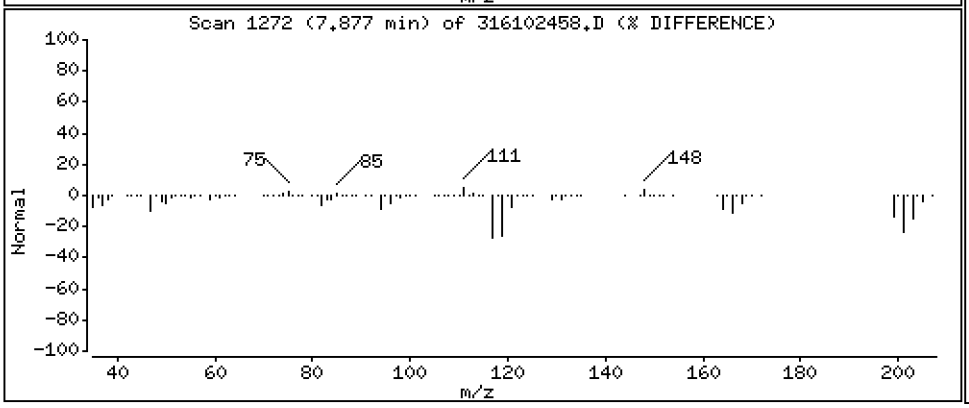
Column phase: DB-VRX Column diameter: 0.25

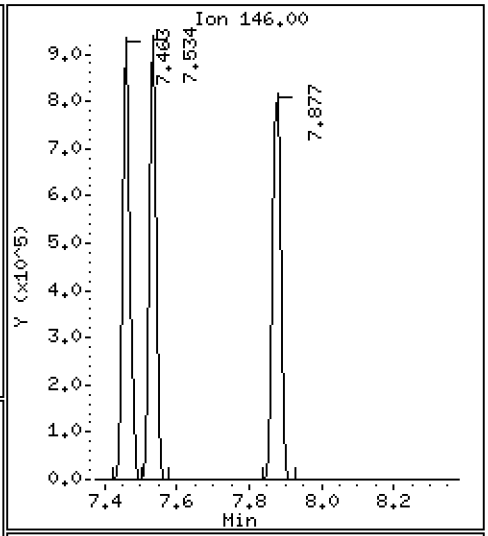
113 1,2-Dichlorobenzene Concentration: 100.443 ug/L

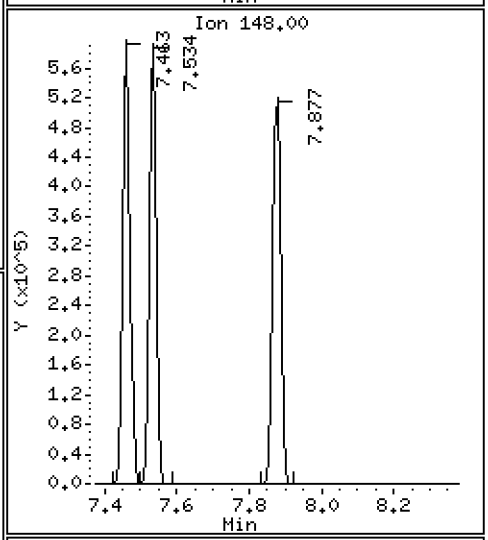


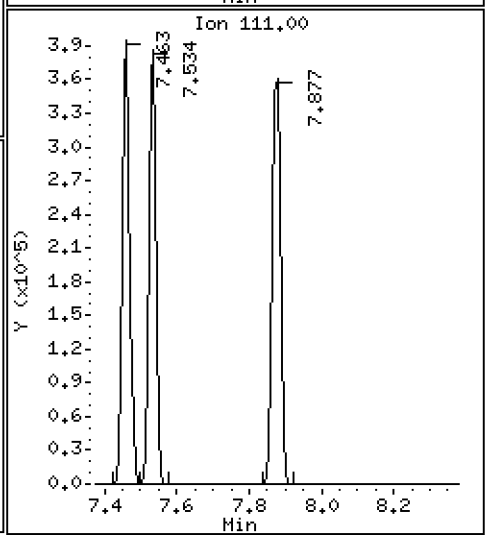












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 114

Date : 25-OCT-2016 01:14

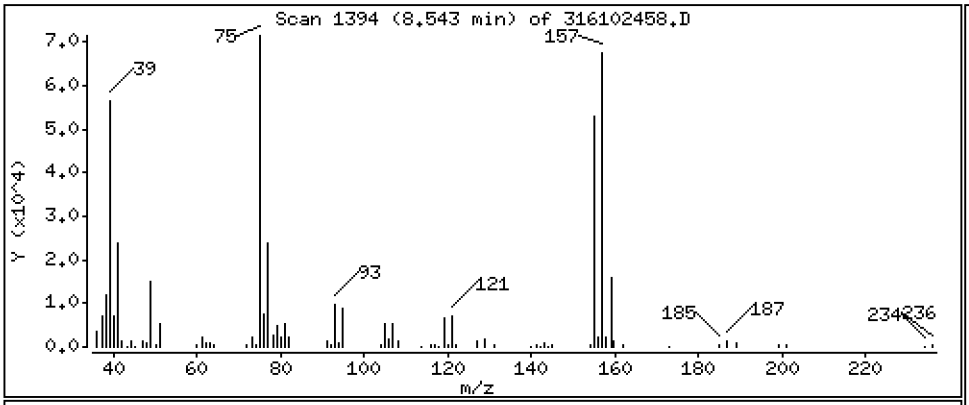
Client ID: Instrument: ms03.i

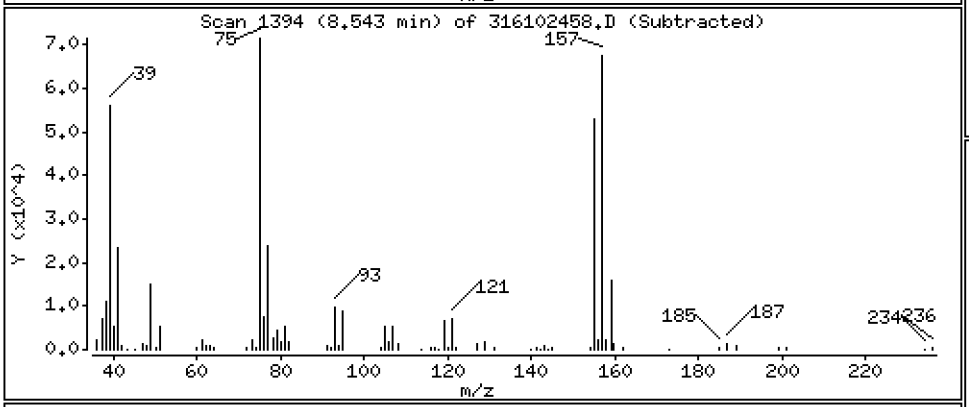
Sample Info: 1238;;1;1;5;;;

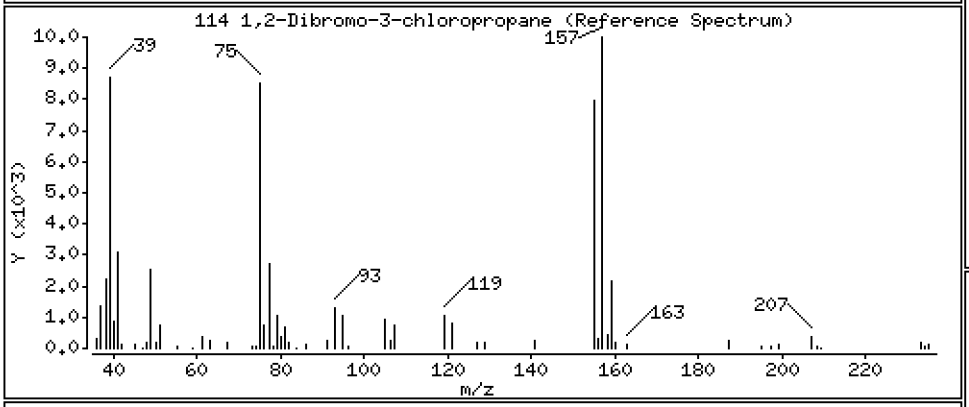
Purge Volume: 5.0 Operator: CJG

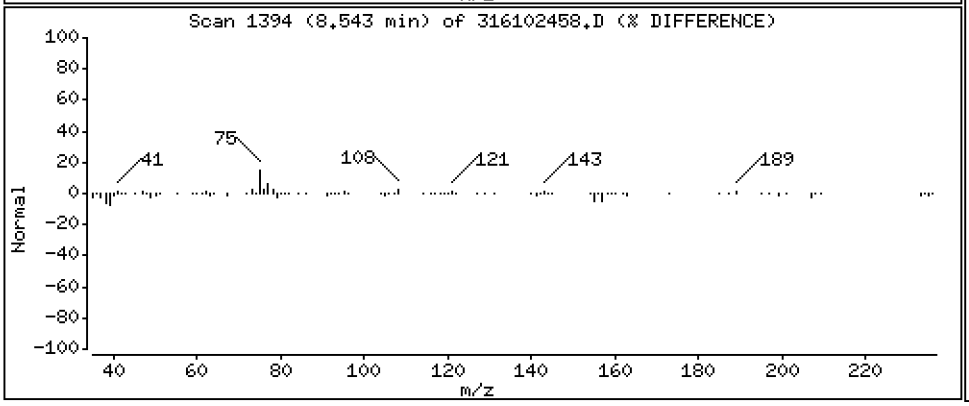
Column phase: DB-VRX Column diameter: 0.25

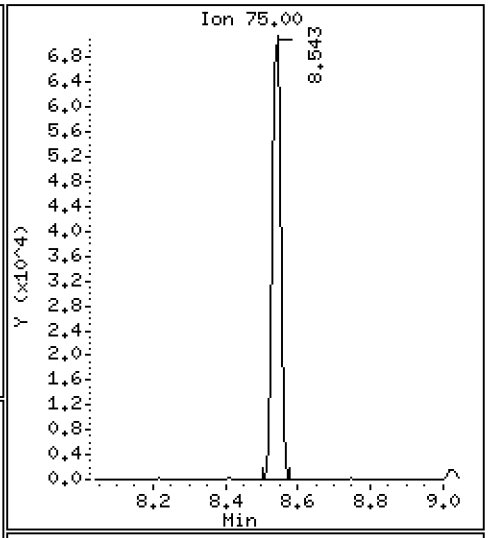
114 1,2-Dibromo-3-chloropropane Concentration: 100.188 ug/L

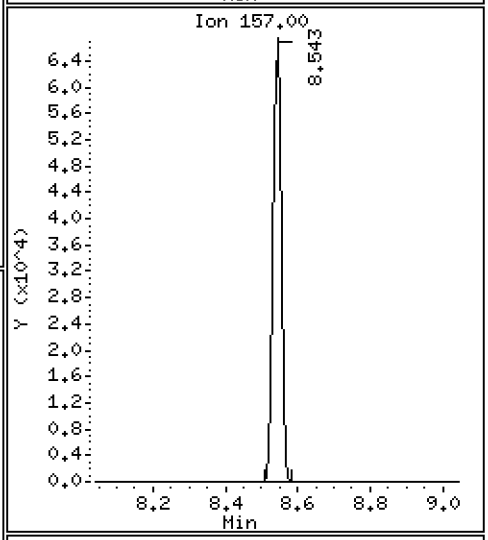


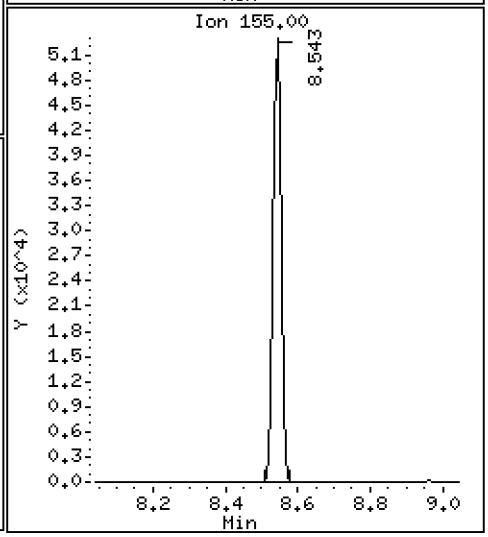












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 115

Date : 25-OCT-2016 01:14

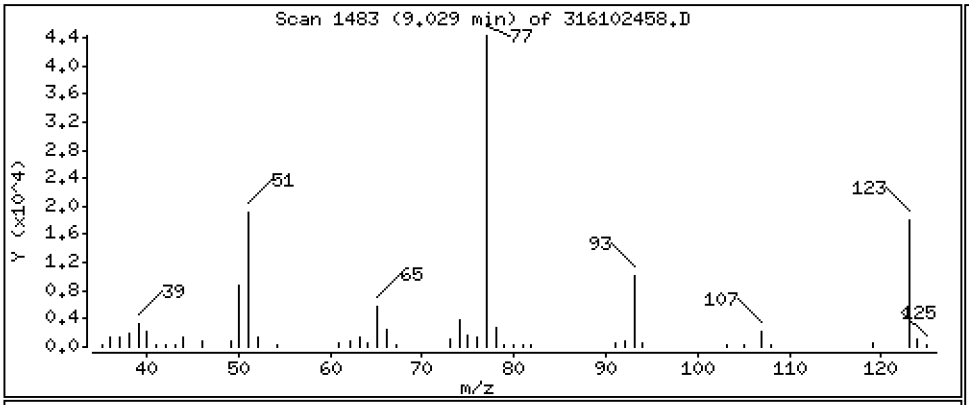
Client ID: Instrument: ms03.i

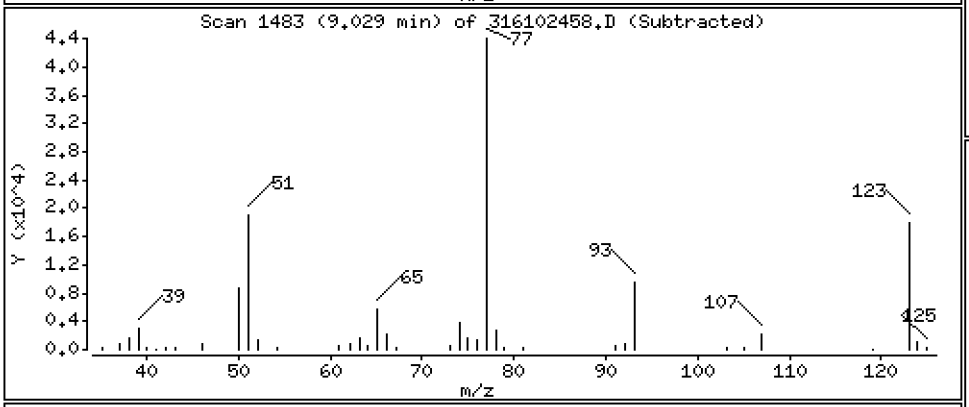
Sample Info: 1238;;1;1;5;;;

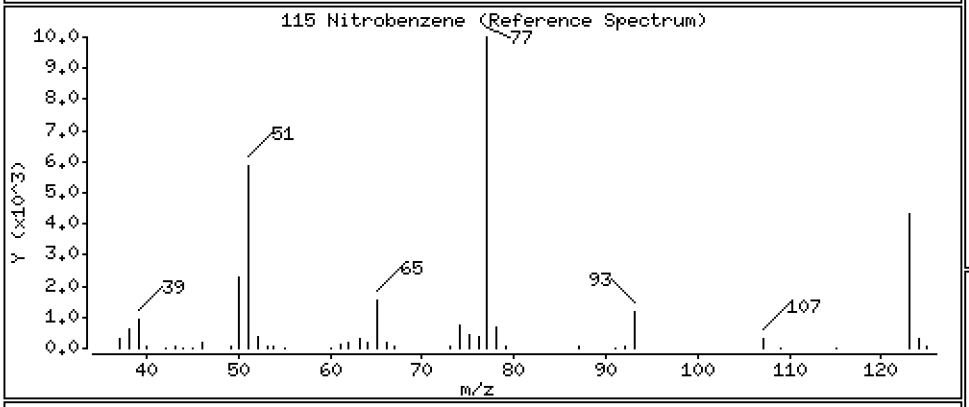
Purge Volume: 5.0 Operator: CJG

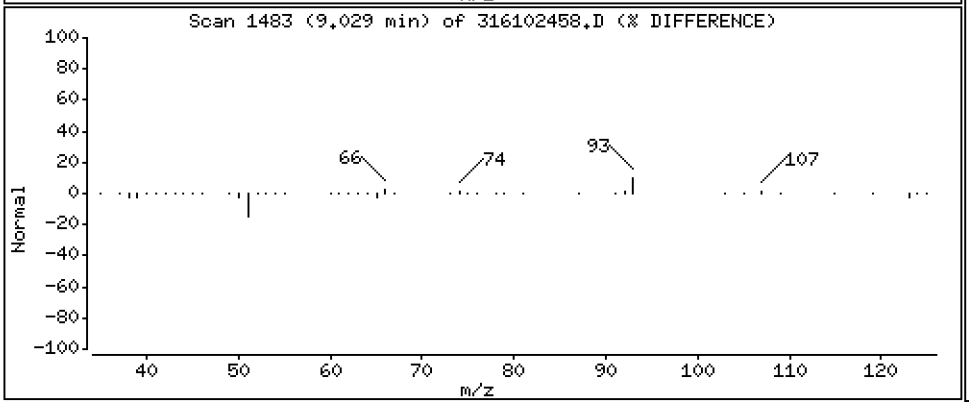
Column phase: DB-VRX Column diameter: 0.25

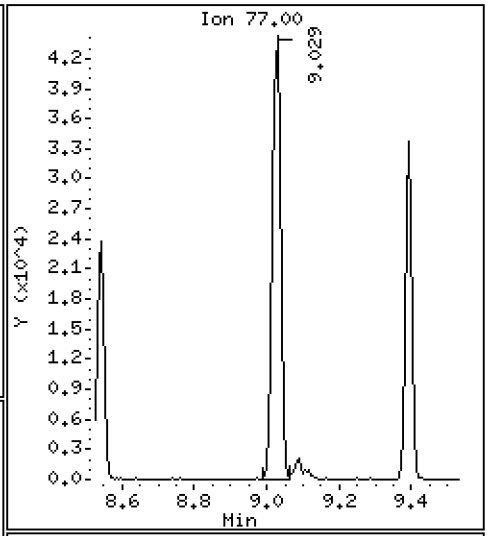
115 Nitrobenzene Concentration: 965.255 ug/L

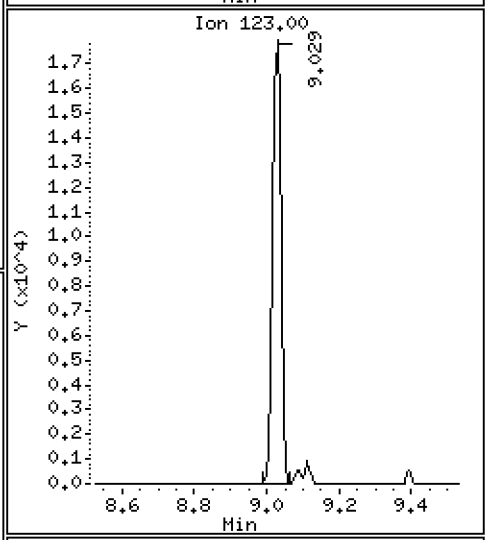


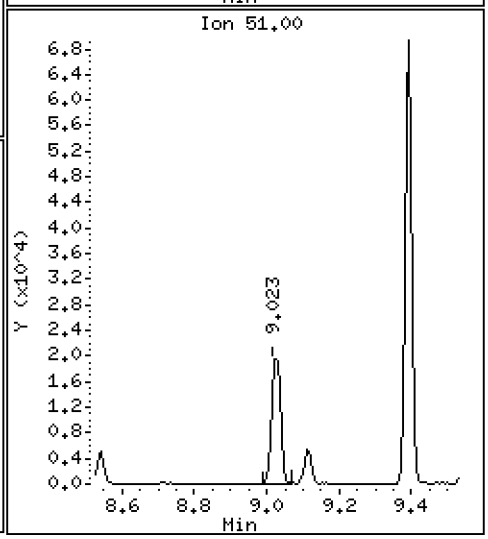












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 116

Date : 25-OCT-2016 01:14

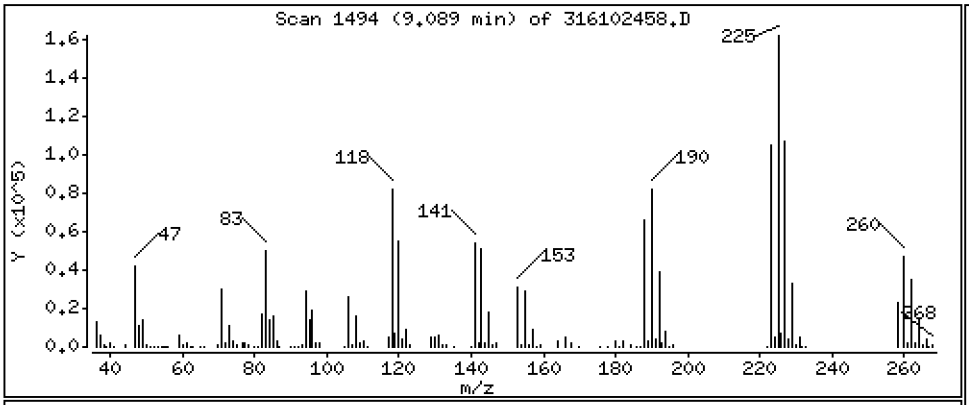
Client ID: Instrument: ms03.i

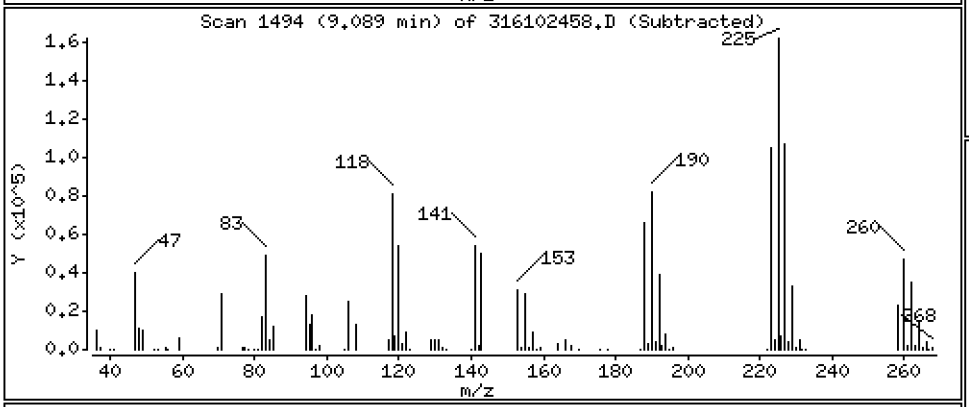
Sample Info: 1238;;1;1;5;;;

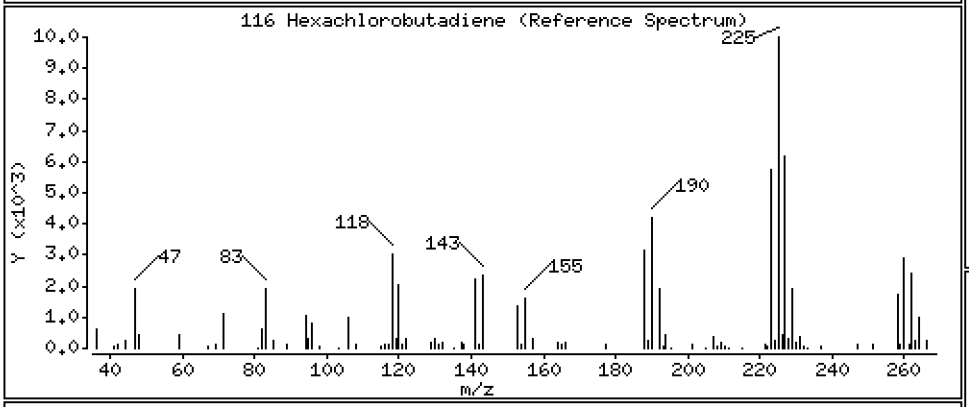
Purge Volume: 5.0 Operator: CJG

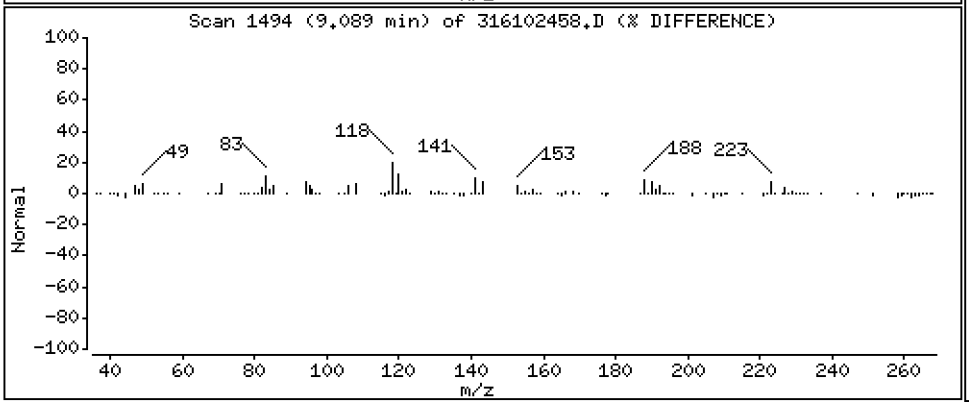
Column phase: DB-VRX Column diameter: 0.25

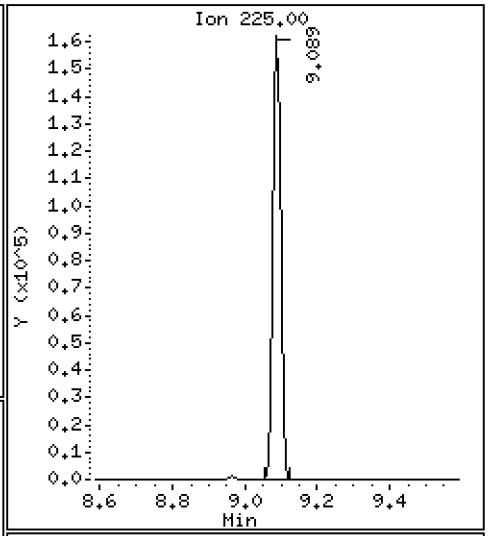
116 Hexachlorobutadiene Concentration: 101.121 ug/L

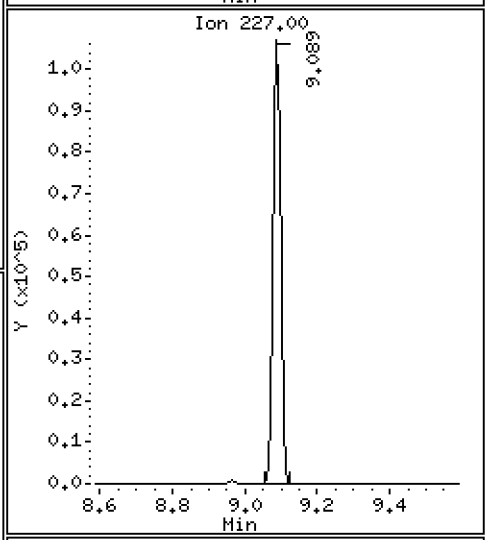


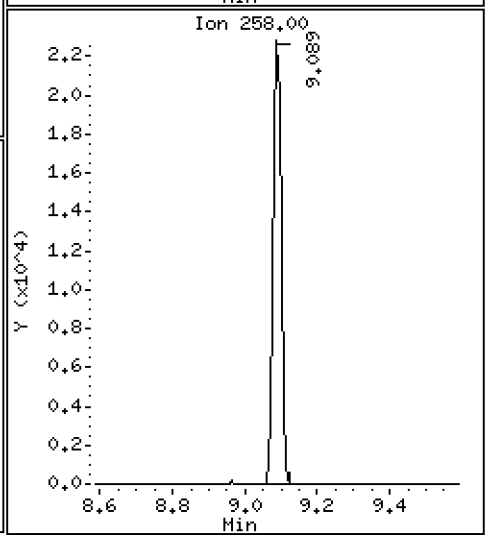












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 117

Date : 25-OCT-2016 01:14

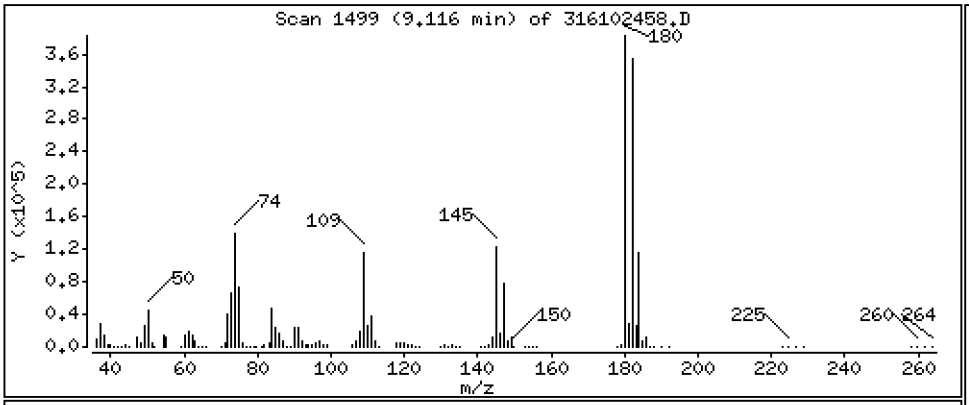
Client ID: Instrument: ms03.i

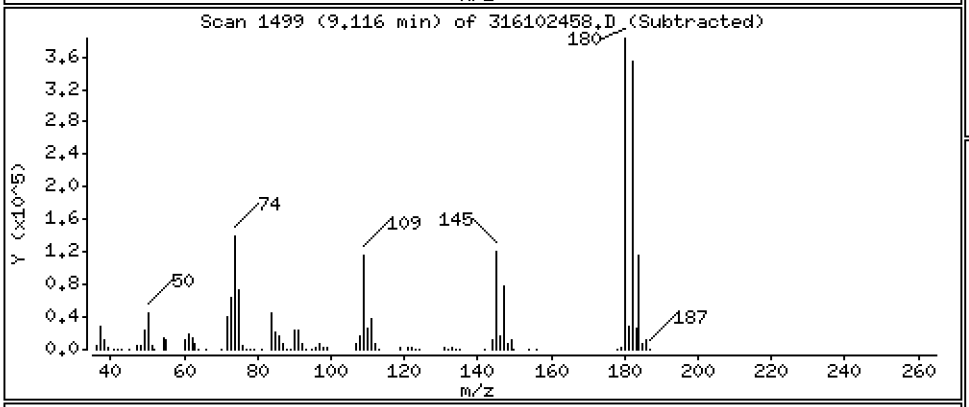
Sample Info: 1238;;1;1;5;;;

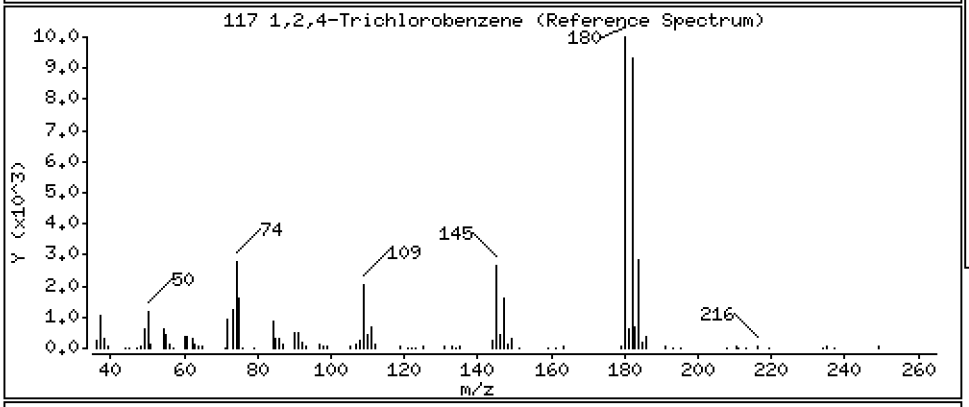
Purge Volume: 5.0 Operator: CJG

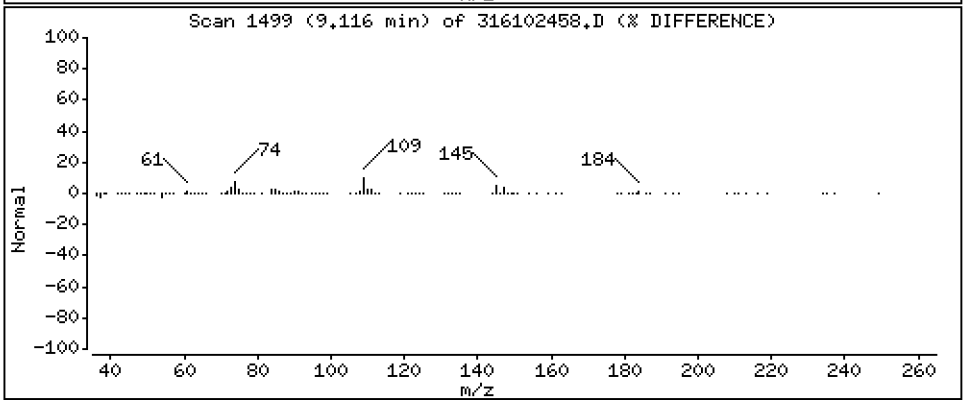
Column phase: DB-VRX Column diameter: 0.25

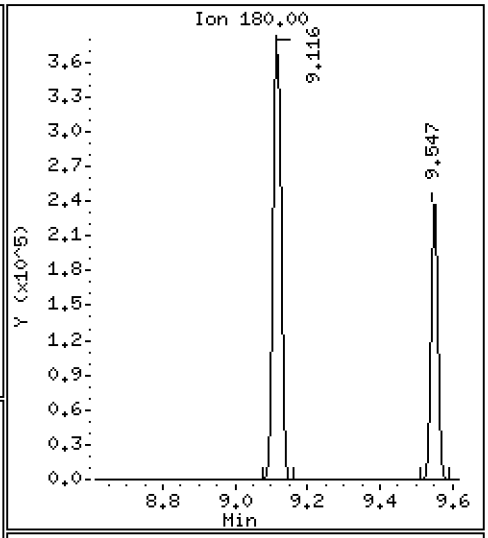
117 1,2,4-Trichlorobenzene Concentration: 101.097 ug/L

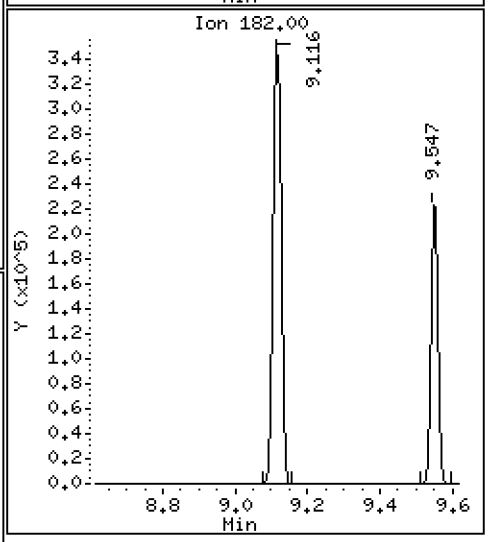












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 118

Date : 25-OCT-2016 01:14

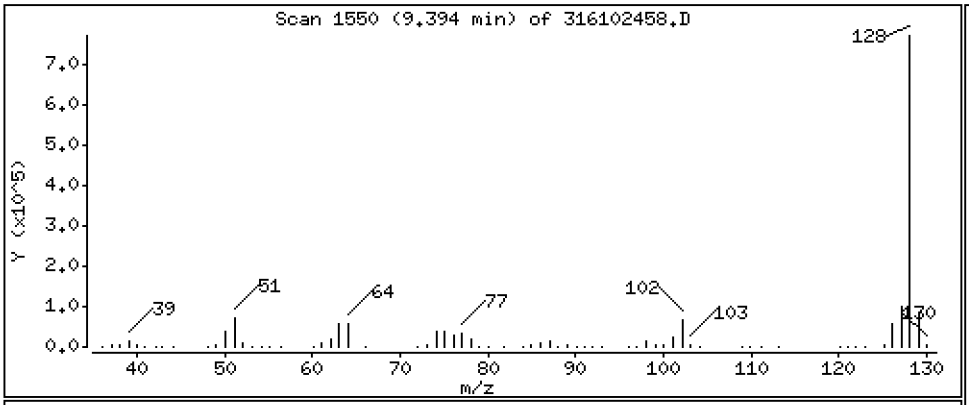
Client ID: Instrument: ms03.i

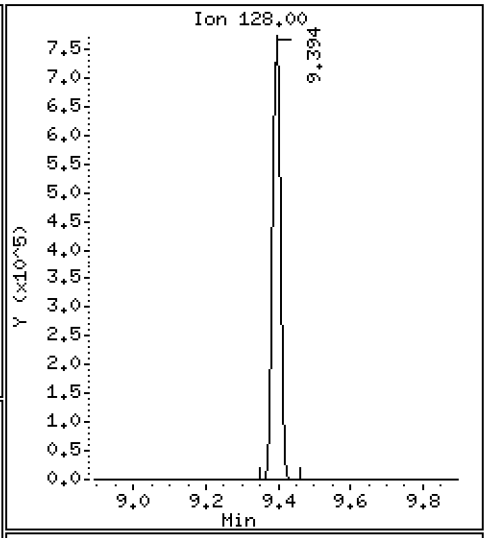
Sample Info: 1238;;1;1;5;;;

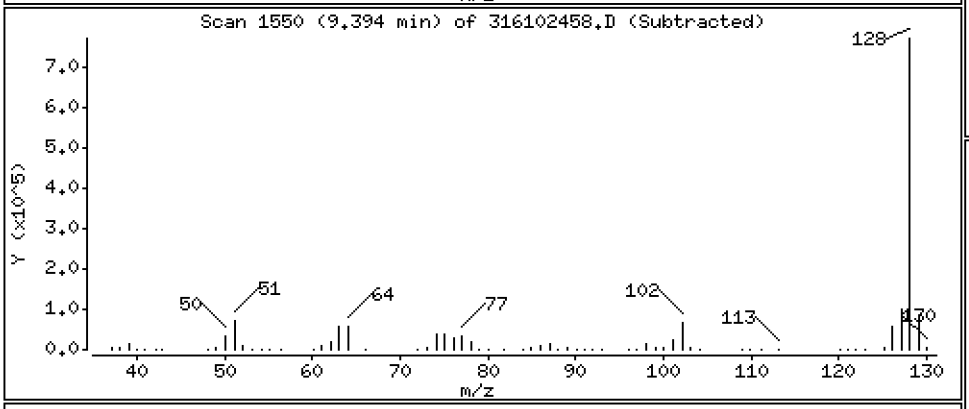
Purge Volume: 5.0 Operator: CJG

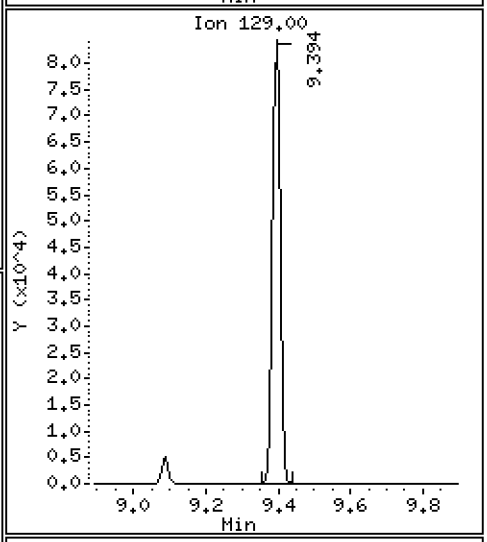
Column phase: DB-VRX Column diameter: 0.25

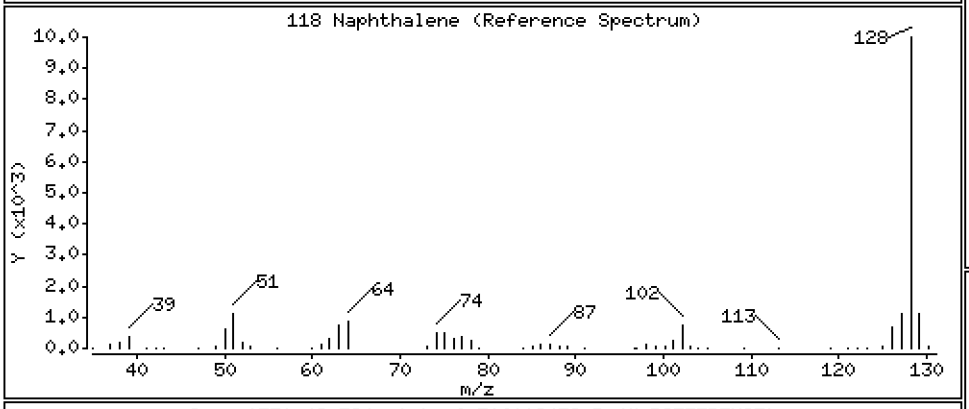
118 Naphthalene Concentration: 101.287 ug/L

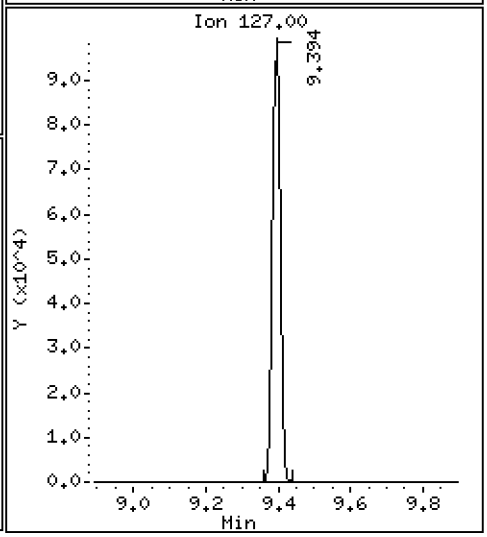


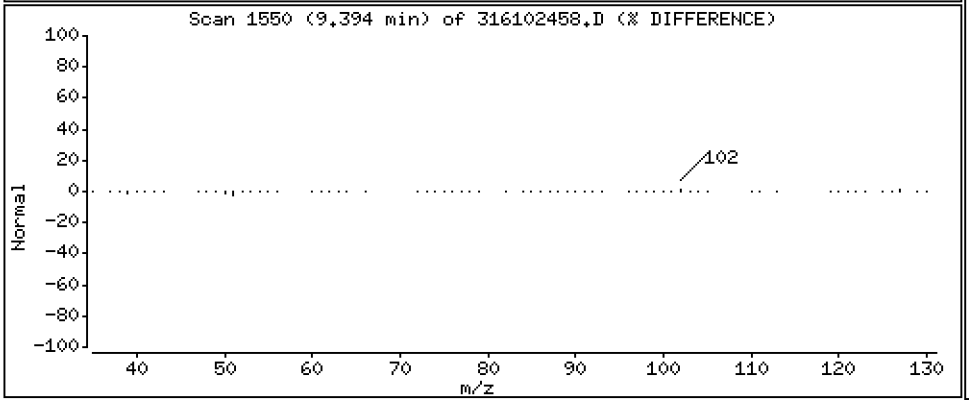












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 119

Date : 25-OCT-2016 01:14

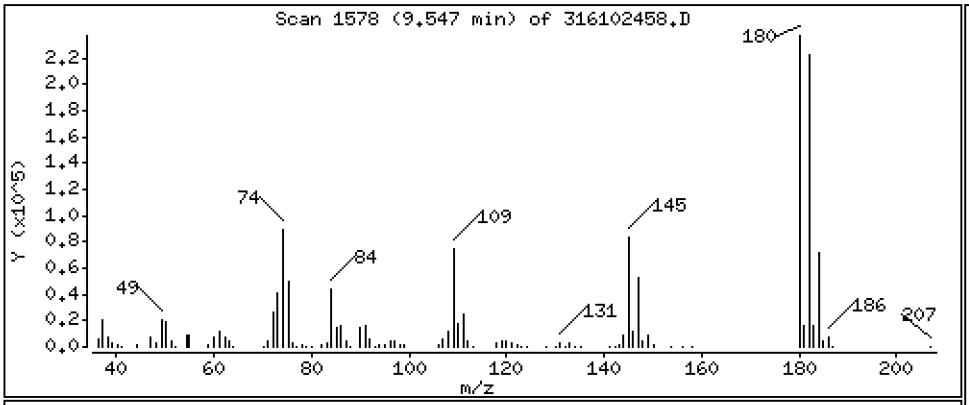
Client ID: Instrument: ms03.i

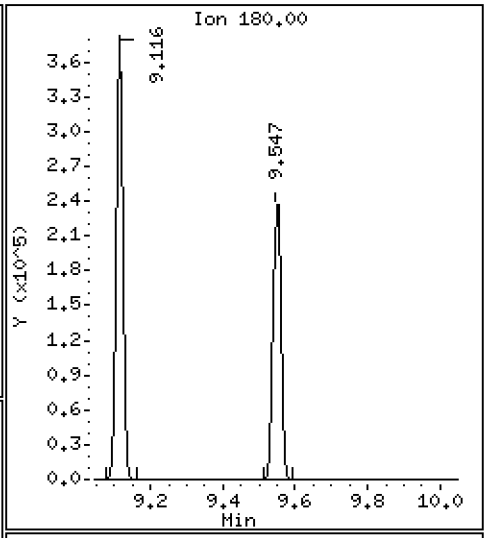
Sample Info: 1238;;1;1;5;;;

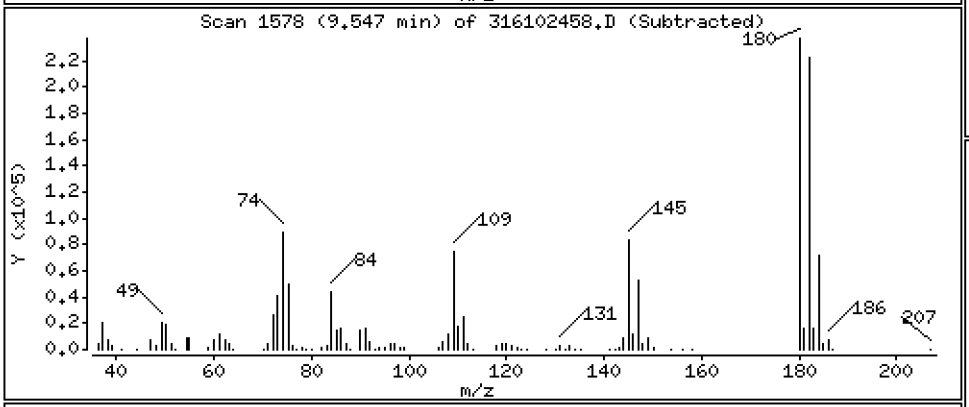
Purge Volume: 5.0 Operator: CJG

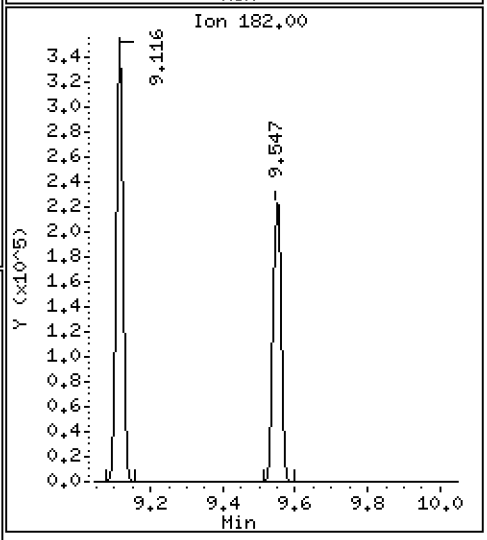
Column phase: DB-VRX Column diameter: 0.25

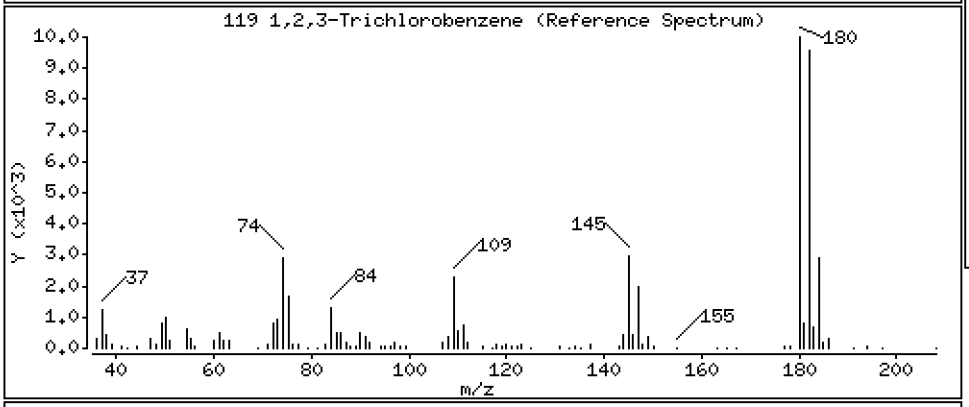
119 1,2,3-Trichlorobenzene Concentration: 99.3515 ug/L

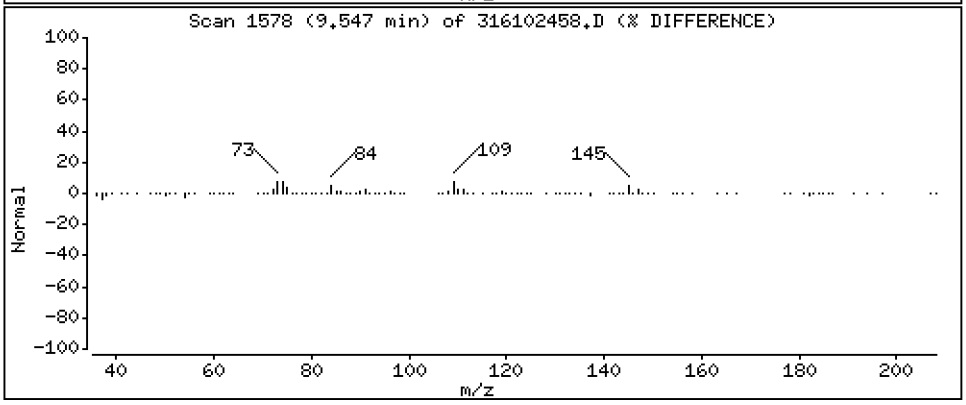








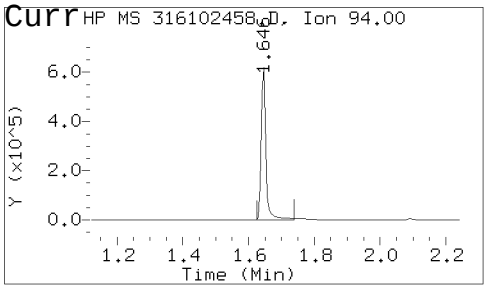


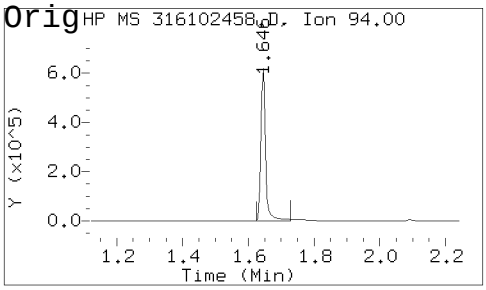


MANUAL INTEGRATION REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1238 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102458.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102458.D
Injection Date: 25-OCT-2016 01:14 Operator: CJG

Bromomethane

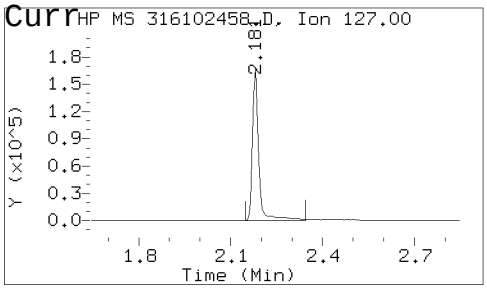


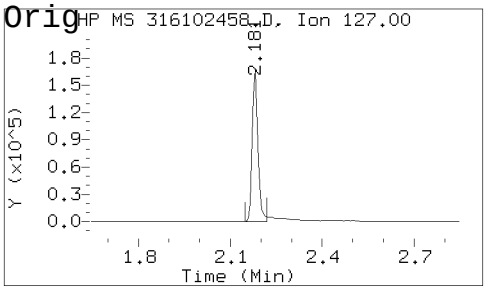


Curr. Area: 611189
Orig. Area: 603715

Curr. ON-COL: 104.093
Orig. ON-COL: 110.333

Iodomethane

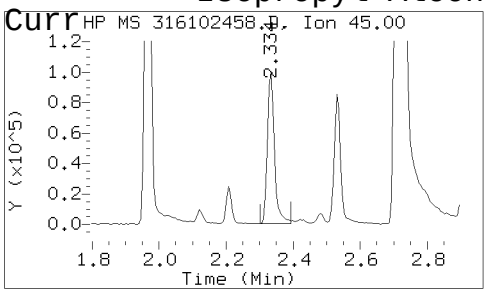


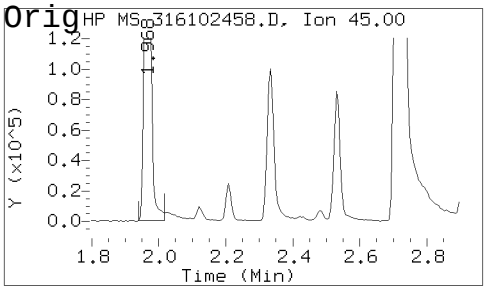


Curr. Area: 235374
Orig. Area: 213676

Curr. ON-COL: 105.804
Orig. ON-COL: 111.258

Isopropyl Alcohol

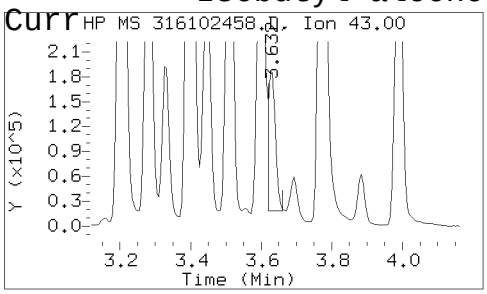


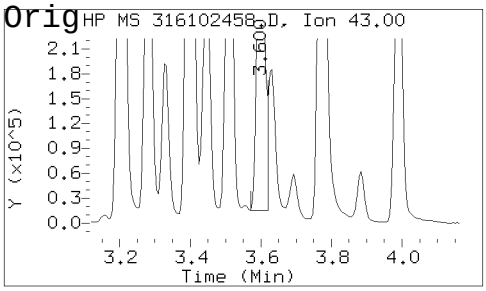


Curr. Area: 143587
Orig. Area: 593753

Curr. ON-COL: 495.120
Orig. ON-COL: 805.400

Isobutyl alcohol

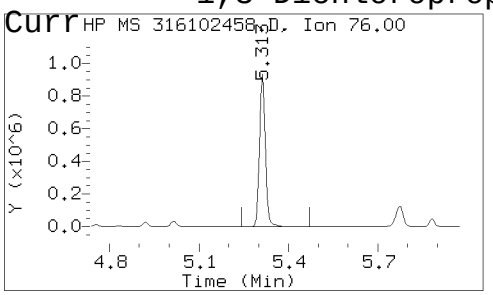


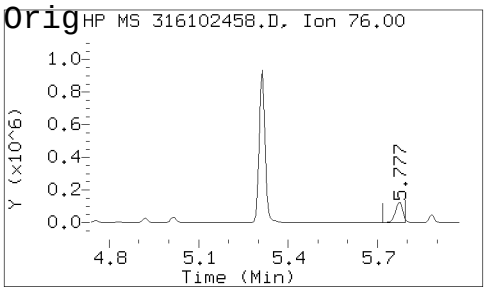


Curr. Area: 217197
Orig. Area: 713537

Curr. ON-COL: 962.747
Orig. ON-COL: 1455.99

1,3-Dichloropropane





Curr. Area: 1296618
Orig. Area: 212767

Curr. ON-COL: 99.3658
Orig. ON-COL: 27.7169

UNASSIGNED PEAK REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1238 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102458.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102458.D
Injection Date: 25-OCT-2016 01:14 Operator: CJG

Data File: 316102459.D Page 1
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610245
Lab Smp Id: 1239
Inj Date : 25-OCT-2016 01:36
Operator : CJG Inst ID: ms03.i
Smp Info : 1239;;1;1;6;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b0
Meth Date : 25-Oct-2016 10:10 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:36 Cal File: 316102459.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: ALMDTW7062

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.259	(0.332)	2684578	200.000	200.025(A)	
2 Chloromethane	50	1.389	1.390	(0.367)	2361293	200.000	200.020(A)	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	2731229	200.000	199.986	
4 Bromomethane	94	1.646	1.646	(0.434)	1481026	200.000	199.801	
5 Chloroethane	64	1.722	1.723	(0.454)	1695539	200.000	199.997	
6 Pentane	41	1.793	1.794	(0.473)	1462656	200.000	200.202(A)	
7 Trichlorofluoromethane	101	1.798	1.799	(0.475)	3126719	200.000	200.152(A)	
8 Dichlorofluoromethane	67	1.831	1.826	(0.483)	3665357	200.000	200.011(A)	
9 Ethyl Ether	74	1.967	1.968	(0.519)	1334329	200.000	200.245(A)	
10 1,1-Dichloroethene	61	2.088	2.088	(0.551)	2597207	200.000	200.031(A)	
11 Freon 113	101	2.104	2.105	(0.555)	1413630	200.000	200.150(A)	
12 Carbon Disulfide	76	2.120	2.121	(0.560)	4917931	200.000	199.764	
13 Iodomethane	127	2.180	2.181	(0.575)	494749	200.000	199.511(M)	H
14 Acrolein	56	2.273	2.274	(0.600)	2729113	2000.00	1999.80	
15 Isopropyl Alcohol	45	2.333	2.334	(0.616)	304769	1000.00	1000.95(AM)	H
16 3-Chloro-1-propene	41	2.344	2.345	(0.619)	2096510	200.000	199.640	
17 Methylene Chloride	84	2.404	2.405	(0.634)	1758964	200.000	199.993	
18 Acetone	58	2.426	2.427	(0.640)	649958	1000.00	1001.16(A)	
19 Methyl acetate	74	2.480	2.481	(0.655)	282862	200.000	200.164(AQ)	
20 trans-1,2-Dichloroethene	61	2.486	2.487	(0.656)	2562342	200.000	199.940	
21 Hexane	57	2.519	2.519	(0.665)	3574705	200.000	199.959	

Data File: 316102459.D Page 2
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.530	2.530	(0.667)	4863634	200.000	199.972	
	23 tert.- Butyl Alcohol	59	2.568	2.563	(0.678)	559175	1000.00	999.175	
	24 Acetonitrile	41	2.682	2.683	(0.708)	765676	1000.00	1000.81(A)	
	25 Diisopropyl ether	45	2.720	2.721	(0.718)	6279504	200.000	199.890	
	26 Chloroprene	53	2.797	2.798	(0.738)	2685469	200.000	200.016(A)	
	27 1,1-Dichloroethane	63	2.813	2.814	(0.742)	3342399	200.000	200.104(A)	
	28 Acrylonitrile	53	2.846	2.841	(0.751)	3179646	1000.00	999.785	
	29 Ethyl tert-butyl ether	59	2.911	2.912	(0.768)	5706389	200.000	199.829	
	30 n-Propanol	41	2.911	2.912	(0.768)	1096313	2000.00	2000.15(AQ)	
	31 Vinyl Acetate	86	2.928	2.929	(0.773)	398460	200.000	199.840(Q)	
	32 cis-1,2-Dichloroethene	61	3.097	3.098	(0.817)	2585918	200.000	200.026(A)	
	33 2,2-Dichloropropane	77	3.162	3.158	(0.834)	2334464	200.000	199.927	
	34 Bromochloromethane	128	3.212	3.207	(0.847)	734217	200.000	199.684	
	35 Cyclohexane	84	3.212	3.212	(0.847)	2804116	200.000	200.114(A)	
	36 Chloroform	83	3.233	3.234	(0.853)	3259733	200.000	200.129(A)	
	37 Ethyl Acetate	43	3.282	3.278	(0.866)	1662545	200.000	200.015(A)	
	38 Methyl acrylate	55	3.293	3.294	(0.869)	1606800	200.000	199.986	
	39 Carbon Tetrachloride	117	3.326	3.321	(0.878)	1991078	200.000	199.971	
	40 Tetrahydrofuran	42	3.332	3.327	(0.879)	2519321	1000.00	1000.65(A)	
$	41 Dibromofluoromethane	113	3.337	3.338	(0.881)	1452376	200.000	194.573	
	42 1,1,1-Trichloroethane	97	3.359	3.360	(0.886)	2515975	200.000	199.871	
	43 2-Butanone	72	3.397	3.398	(0.896)	1082853	1000.00	1000.52(A)	
	44 1,1-Dichloropropene	75	3.424	3.425	(0.904)	2512363	200.000	200.103(A)	
	45 1-Chlorobutane	41	3.446	3.447	(0.909)	1936940	200.000	200.139(A)	
	46 Heptane	71	3.512	3.512	(0.927)	1169855	200.000	199.827	
	47 Benzene	78	3.566	3.567	(0.941)	7700557	200.000	200.077(A)	
	48 Propionitrile	54	3.577	3.578	(0.944)	1164895	1000.00	1000.96(A)	
	49 Methacrylonitrile	67	3.588	3.583	(0.947)	751610	200.000	200.167(A)	
	50 tert-Amyl methyl ether	73	3.599	3.600	(0.950)	4690624	200.000	199.900	
$	51 1,2-Dichloroethane-d4	65	3.637	3.638	(0.960)	1759427	200.000	200.271(A)	
	52 1,2-Dichloroethane	62	3.675	3.676	(0.970)	2264105	200.000	200.008(A)	
	53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	520760	1000.00	1000.25(AQ)	
	54 Isobutyl alcohol	43	3.632	3.632	(0.958)	619279	2000.00	2004.48(A)	
*	55 Fluorobenzene	96	3.790	3.791	(1.000)	1130573	30.0000		
	56 Diisobutylene	57	3.795	3.796	(1.001)	4638559	200.000	200.082(A)	
	57 Trichloroethene	95	3.883	3.883	(1.024)	1852740	200.000	200.074(A)	
	58 Methyl cyclohexane	83	3.883	3.883	(0.674)	3043988	200.000	200.131(A)	
	59 tert-Amyl Ethylether	59	3.992	3.987	(1.053)	4342458	200.000	199.800	
	60 Dibromomethane	93	4.139	4.139	(1.092)	1001342	200.000	199.912	
	61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	1990610	200.000	199.932	
	62 Bromodichloromethane	83	4.221	4.222	(1.114)	2285565	200.000	199.874	
	63 Methyl methacrylate	41	4.292	4.293	(1.132)	1569773	200.000	199.729	
	64 1,4-Dioxane	88	4.336	4.336	(1.144)	159760	5000.00	4737.25	
	65 2-Chloroethylvinyl ether	63	4.548	4.549	(1.200)	1004011	200.000	199.747	
	66 cis-1,3-Dichloropropene	75	4.603	4.604	(0.799)	3045282	200.000	199.825	
	67 Octane	85	4.608	4.609	(0.800)	787585	200.000	199.759	
$	68 Toluene-d8	98	4.723	4.724	(0.820)	6159407	200.000	200.016(A)	
	69 Toluene	92	4.756	4.756	(0.826)	4419448	200.000	200.127(A)	
	70 Chloroacetonitrile	48	4.832	4.833	(0.839)	217651	1000.00	965.683	
	71 2-Nitropropane	41	4.908	4.909	(0.852)	2024040	1000.00	939.738	
	72 1,1-Dichloro-2-Propanone	63	4.919	4.920	(0.854)	183114	1000.00	1000.20(AQ)	
	73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.986	(0.865)	8504978	1000.00	1000.54(A)	
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	1230785	200.000	200.266(A)	
	75 trans-1,3-Dichloropropene	75	5.018	5.013	(0.871)	2639052	200.000	199.843	

Data File: 316102459.D Page 3
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.094	5.095	(0.884)	2427009	200.000	199.915	
	77 1,1,2-Trichloroethane	83	5.127	5.122	(0.890)	1250936	200.000	200.122(A)	
	78 Chlorodibromomethane	129	5.247	5.247	(0.911)	1468576	200.000	199.834	
	79 1,3-Dichloropropane	76	5.312	5.313	(0.922)	2738035	200.000	200.110(AM)	
	80 1,2-Dibromoethane	107	5.421	5.422	(0.941)	1365433	200.000	200.001(A)	
	81 2-Hexanone	43	5.541	5.542	(0.962)	5610777	1000.00	1000.08(A)	
	82 1-Chlorohexane	91	5.738	5.739	(0.996)	2518197	200.000	199.762	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	484544	30.0000		
	84 Chlorobenzene	112	5.776	5.777	(1.003)	4517655	200.000	200.088(A)	
	85 Ethylbenzene	106	5.781	5.782	(1.004)	2537524	200.000	200.070(A)	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.815	(1.009)	1373862	200.000	199.950	
	87 mp-Xylene	106	5.885	5.880	(1.022)	6172417	400.000	400.106(A)	
	88 o-Xylene	106	6.196	6.197	(1.076)	2863228	200.000	199.876	
	89 Styrene	104	6.234	6.235	(0.829)	4716658	200.000	199.890	
	90 Bromoform	173	6.267	6.262	(0.833)	708243	200.000	199.791	
	91 Isopropylbenzene	105	6.425	6.426	(0.854)	7204298	200.000	199.964	
$	92 4-Bromofluorobenzene	174	6.649	6.650	(0.884)	1321853	200.000	199.797	
	93 Bromobenzene	156	6.731	6.732	(0.895)	1512840	200.000	199.983	
	94 n-Propylbenzene	120	6.736	6.737	(0.896)	1905307	200.000	199.982(Q)	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.792	(0.903)	1692076	200.000	200.124(A)	
	96 o-Chlorotoluene	91	6.867	6.868	(0.913)	5609598	200.000	199.958	
	97 1,3,5-Trimethylbenzene	105	6.889	6.884	(0.916)	5512068	200.000	199.938	
	98 1,2,3-Trichloropropane	110	6.906	6.906	(0.918)	491777	200.000	200.191(A)	
	99 trans-1,4-Dichloro-2-butene	53	6.933	6.933	(0.922)	484295	200.000	199.842(Q)	
M	100 1,2-Dichloroethene, Total	61				5148260	400.000	399.966	
	101 p-Chlorotoluene	91	6.993	6.994	(0.930)	5115561	200.000	199.900	
	102 tert-Butylbenzene	134	7.140	7.141	(0.949)	1223687	200.000	199.938	
	103 Pentachloroethane	117	7.162	7.163	(0.952)	1071817	200.000	199.812	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.956)	5487957	200.000	199.902	
	105 sec-Butylbenzene	105	7.277	7.277	(0.967)	6611086	200.000	199.873	
	106 p-Isopropyltoluene	134	7.391	7.392	(0.983)	1388464	200.000	199.845	
	107 1,3-Dichlorobenzene	146	7.462	7.463	(0.992)	2646613	200.000	199.899	
*	108 1,4-Dichlorobenzene-d4	152	7.522	7.523	(1.000)	319559	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	7.533	7.534	(1.001)	2747083	200.000	199.953	
	110 Benzyl Chloride	126	7.735	7.736	(1.028)	482251	200.000	199.646(Q)	
	111 n-Butylbenzene	134	7.735	7.736	(1.028)	1190411	200.000	199.764	
	112 Hexachloroethane	117	7.849	7.850	(1.044)	884099	200.000	199.586	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.047)	2391672	200.000	199.939	
	114 1,2-Dibromo-3-chloropropane	75	8.542	8.542	(1.136)	236845	200.000	199.950	
	115 Nitrobenzene	77	9.028	9.029	(1.200)	292262	2000.00	2002.92(A)	
	116 Hexachlorobutadiene	225	9.088	9.089	(1.208)	443687	200.000	199.837	
	117 1,2,4-Trichlorobenzene	180	9.115	9.116	(1.212)	1132094	200.000	199.807	
	118 Naphthalene	128	9.394	9.394	(1.249)	2491026	200.000	199.764	
	119 1,2,3-Trichlorobenzene	180	9.546	9.547	(1.269)	765705	200.000	200.065(A)	
M	120 1,3-Dichloropropene, Total	75				5684334	400.000	399.668	
M	121 Total Xylenes	106				9035645	600.000	599.982	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 316102459.D Page 4
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 25-OCT-2016
Lab File ID: 316102459.D Calibration Time: 00:52
Lab Smp Id: 1239
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: CJG
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	1130573	11.59
83 Chlorobenzene-d5	432864	216432	865728	484544	11.94
108 1,4-Dichlorobenze	273837	136919	547674	319559	16.70

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	-0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	-0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102459.D Page 5
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1239
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	200.025	E
74-87-3	Chloromethane	200.020	E
75-01-4	Vinyl Chloride	199.986	
74-83-9	Bromomethane	199.801	
75-00-3	Chloroethane	199.997	
109-66-0	Pentane	200.202	E
75-69-4	Trichlorofluoromethane	200.152	E
75-43-4	Dichlorofluoromethane	200.011	E
60-29-7	Ethyl Ether	200.245	E
75-35-4	1,1-Dichloroethene	200.031	E
76-13-1	Freon 113	200.150	E
75-15-0	Carbon Disulfide	199.764	
74-88-4	Iodomethane	199.511	
107-02-8	Acrolein	1999.80	
67-63-0	Isopropyl Alcohol	1000.95	E
107-05-1	3-Chloro-1-propene	199.640	
75-09-2	Methylene Chloride	199.993	
67-64-1	Acetone	1001.16	E
79-20-9	Methyl acetate	200.164	E
156-60-5	trans-1,2-Dichloroethene	199.940	
110-54-3	Hexane	199.959	
1634-04-4	Methyl t-Butyl Ether	199.972	
75-65-0	tert.- Butyl Alcohol	999.175	
75-05-8	Acetonitrile	1000.81	E
108-20-3	Diisopropyl ether	199.890	
126-99-8	Chloroprene	200.016	E
75-34-3	1,1-Dichloroethane	200.104	E
107-13-1	Acrylonitrile	999.785	
637-92-3	Ethyl tert-butyl ether	199.829	
71-23-8	n-Propanol	2000.15	E
108-05-4	Vinyl Acetate	199.840	
156-59-2	cis-1,2-Dichloroethene	200.026	E
594-20-7	2,2-Dichloropropane	199.927	
74-97-5	Bromochloromethane	199.684	
110-82-7	Cyclohexane	200.114	E
67-66-3	Chloroform	200.129	E
141-78-6	Ethyl Acetate	200.015	E
96-33-3	Methyl acrylate	199.986	
56-23-5	Carbon Tetrachloride	199.971	
109-99-9	Tetrahydrofuran	1000.65	E
71-55-6	1,1,1-Trichloroethane	199.871	
78-93-3	2-Butanone	1000.52	E

Data File: 316102459.D Page 6
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1239
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
563-58-6	1,1-Dichloropropene	200.103	E
109-69-3	1-Chlorobutane	200.139	E
142-82-5	Heptane	199.827	
71-43-2	Benzene	200.077	E
107-12-0	Propionitrile	1000.96	E
126-98-7	Methacrylonitrile	200.167	E
994-05-8	tert-Amyl methyl ether	199.900	
107-06-2	1,2-Dichloroethane	200.008	E
75-85-4	tert-Amyl Alcohol	1000.25	E
78-83-1	Isobutyl alcohol	2004.48	E
107-39-1	Diisobutylene	200.082	E
79-01-6	Trichloroethene	200.074	E
108-87-2	Methyl cyclohexane	200.131	E
919-94-8	tert-Amyl Ethylether	199.800	
74-95-3	Dibromomethane	199.912	
78-87-5	1,2-Dichloropropane	199.932	
75-27-4	Bromodichloromethane	199.874	
80-62-6	Methyl methacrylate	199.729	
123-91-1	1,4-Dioxane	4737.25	
110-75-8	2-Chloroethylvinyl ether	199.747	
10061-01-5	cis-1,3-Dichloropropene	199.825	
111-65-9	Octane	199.759	
108-88-3	Toluene	200.127	E
107-14-2	Chloroacetonitrile	965.683	
79-46-9	2-Nitropropane	939.738	
513-88-2	1,1-Dichloro-2-Propanone	1000.20	E
108-10-1	4-Methyl-2-Pentanone(MIBK)	1000.54	E
127-18-4	Tetrachloroethene	200.266	E
10061-02-6	trans-1,3-Dichloropropene	199.843	
97-63-2	Ethyl Methacrylate	199.915	
79-00-5	1,1,2-Trichloroethane	200.122	E
124-48-1	Chlorodibromomethane	199.834	
142-28-9	1,3-Dichloropropane	200.110	E
106-93-4	1,2-Dibromoethane	200.001	E
591-78-6	2-Hexanone	1000.08	E
544-10-5	1-Chlorohexane	199.762	
108-90-7	Chlorobenzene	200.088	E
100-41-4	Ethylbenzene	200.070	E
630-20-6	1,1,1,2-Tetrachloroethane	199.950	
108383/106423	mp-Xylene	400.106	E
95-47-6	o-Xylene	199.876	
100-42-5	Styrene	199.890	

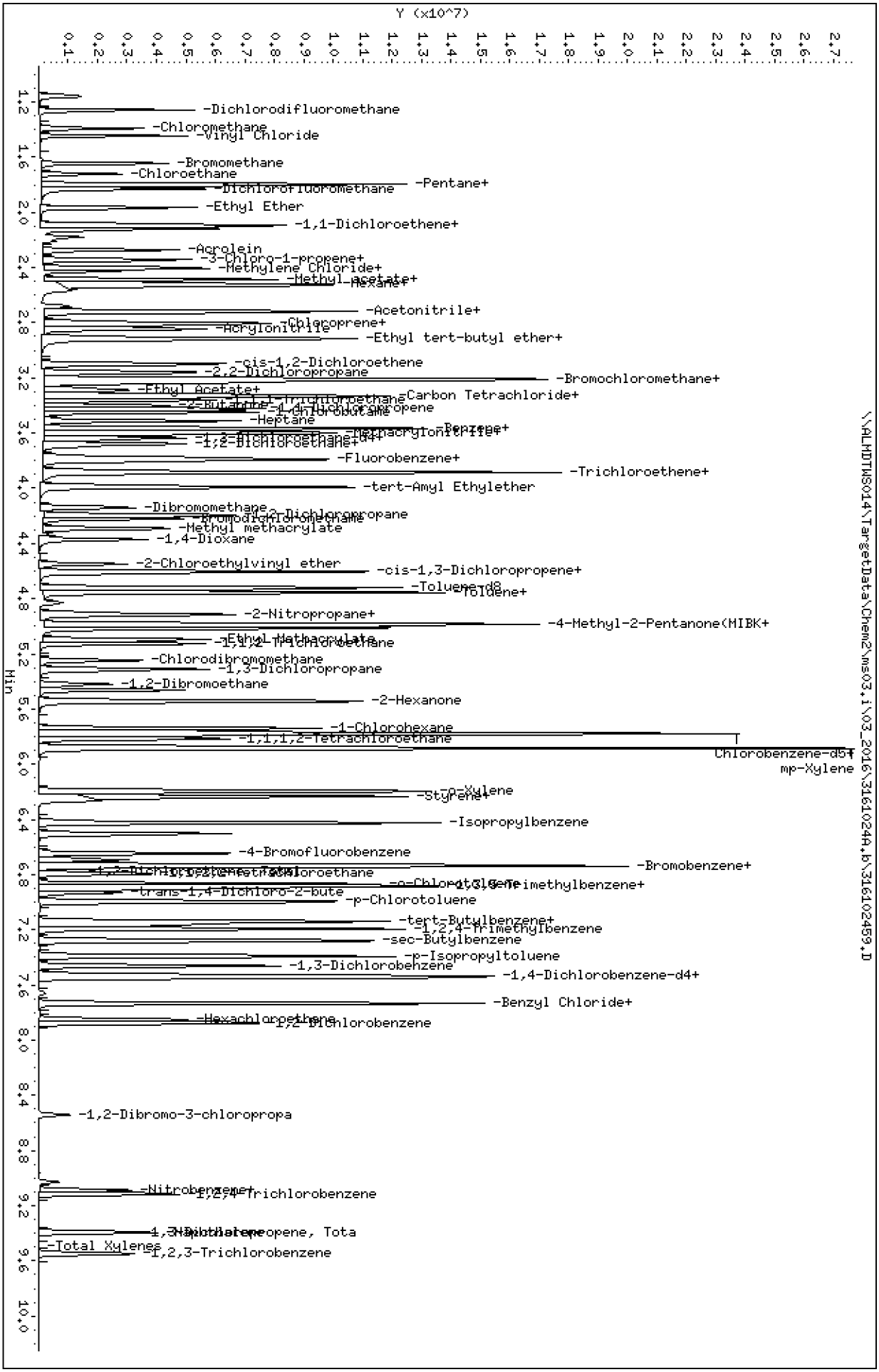
Data File: 316102459.D Page 7
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1239
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-25-2	Bromoform	199.791	
98-82-8	Isopropylbenzene	199.964	
108-86-1	Bromobenzene	199.983	
103-65-1	n-Propylbenzene	199.982	
79-34-5	1,1,2,2-Tetrachloroethane	200.124	E
95-49-8	o-Chlorotoluene	199.958	
108-67-8	1,3,5-Trimethylbenzene	199.938	
96-18-4	1,2,3-Trichloropropane	200.191	E
110-57-6	trans-1,4-Dichloro-2-butene	199.842	
540-59-0	1,2-Dichloroethene, Total	399.966	
106-43-4	p-Chlorotoluene	199.900	
98-06-6	tert-Butylbenzene	199.938	
76-01-7	Pentachloroethane	199.812	
95-63-6	1,2,4-Trimethylbenzene	199.902	
135-98-8	sec-Butylbenzene	199.873	
99-87-6	p-Isopropyltoluene	199.845	
541-73-1	1,3-Dichlorobenzene	199.899	
106-46-7	1,4-Dichlorobenzene	199.953	
100-44-7	Benzyl Chloride	199.646	
104-51-8	n-Butylbenzene	199.764	
67-72-1	Hexachloroethane	199.586	
95-50-1	1,2-Dichlorobenzene	199.939	
96-12-8	1,2-Dibromo-3-chloropropane	199.950	
98-95-3	Nitrobenzene	2002.92	E
87-68-3	Hexachlorobutadiene	199.837	
120-82-1	1,2,4-Trichlorobenzene	199.807	
91-20-3	Naphthalene	199.764	
87-61-6	1,2,3-Trichlorobenzene	200.065	E
542-75-6	1,3-Dichloropropene, Total	399.668	
1330-20-7	Total Xylenes	599.982	
1868-53-7	Dibromofluoromethane	194.573	
17060-07-0	1,2-Dichloroethane-d4	200.271	E
2037-26-5	Toluene-d8	200.016	E
460-00-4	4-Bromofluorobenzene	199.797	


Y (x10^7)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Acrylonitrile
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Carbon Tetrachloride+
-Heptane
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK+
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-o-Xylene
-Styrene+
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-trans-1,4-Dichloro-2-bute
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-Total Xylenes
-1,2,3-Trichlorobenzene
Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S9.D
Date : 25-OCT-2016 01:36
Client ID:
Sample Info: 1239;;1;1;6;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S9.D

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 9

Date : 25-OCT-2016 01:36

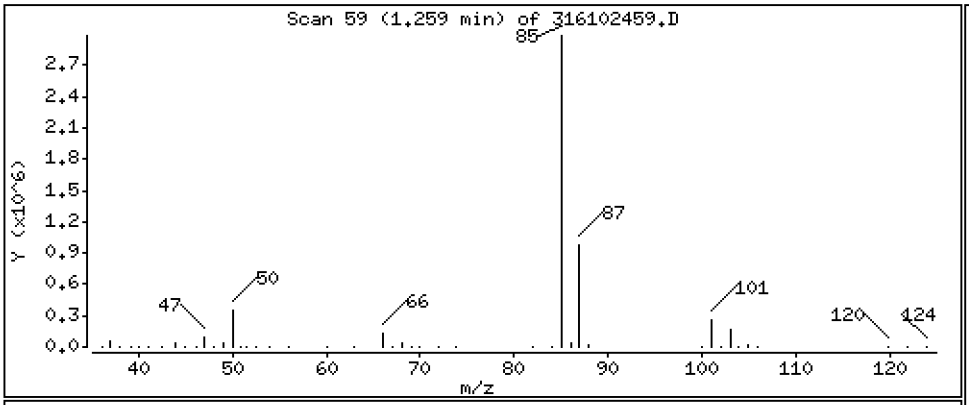
Client ID: Instrument: ms03.i

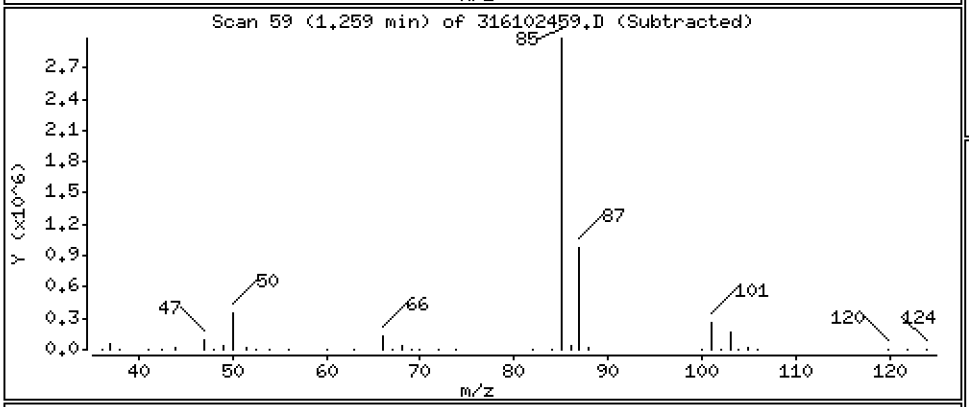
Sample Info: 1239;;1;1;6;;;

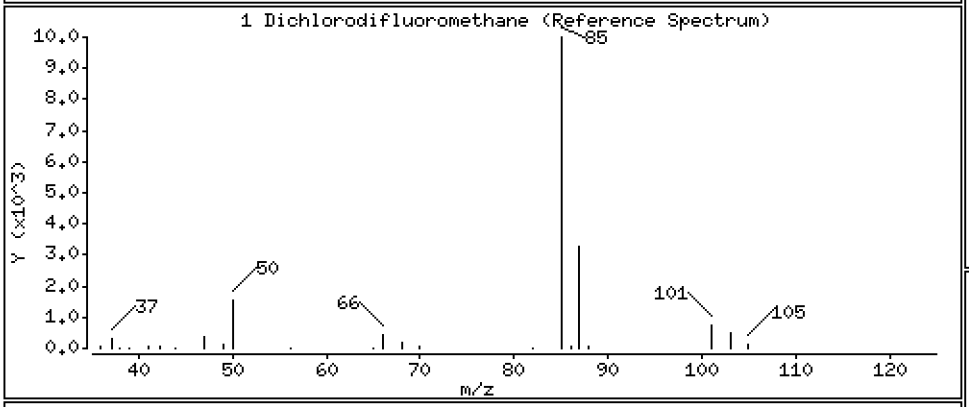
Purge Volume: 5.0 Operator: CJG

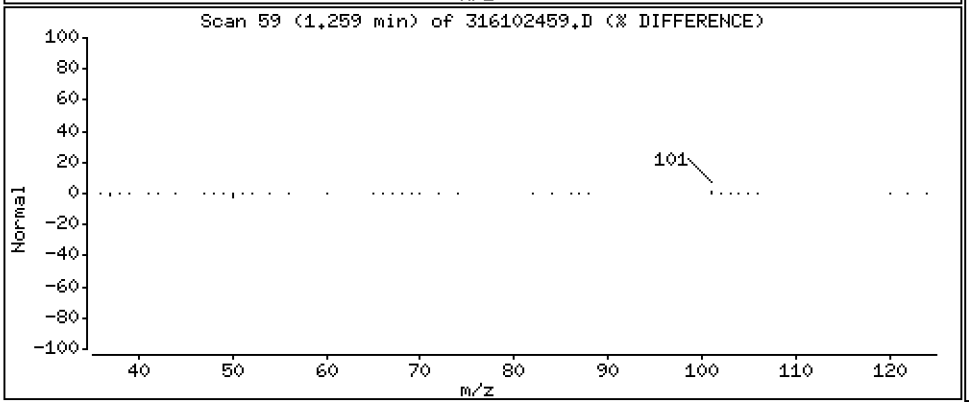
Column phase: DB-VRX Column diameter: 0.25

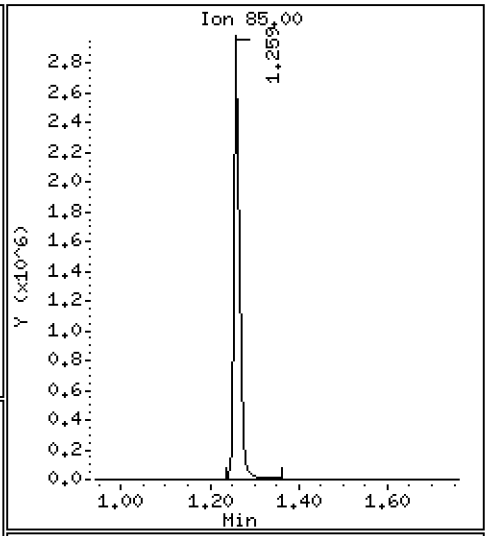
1 Dichlorodifluoromethane Concentration: 200.025 ug/L

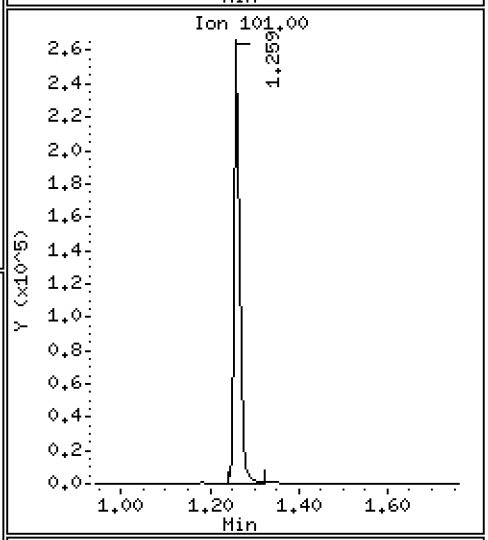


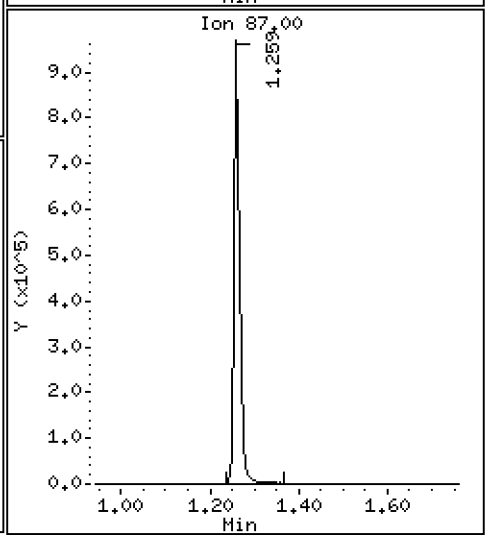












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 10

Date : 25-OCT-2016 01:36

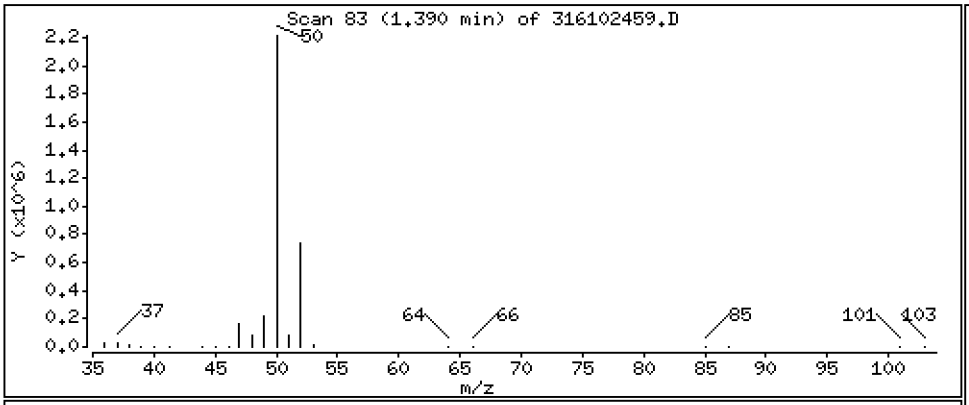
Client ID: Instrument: ms03.i

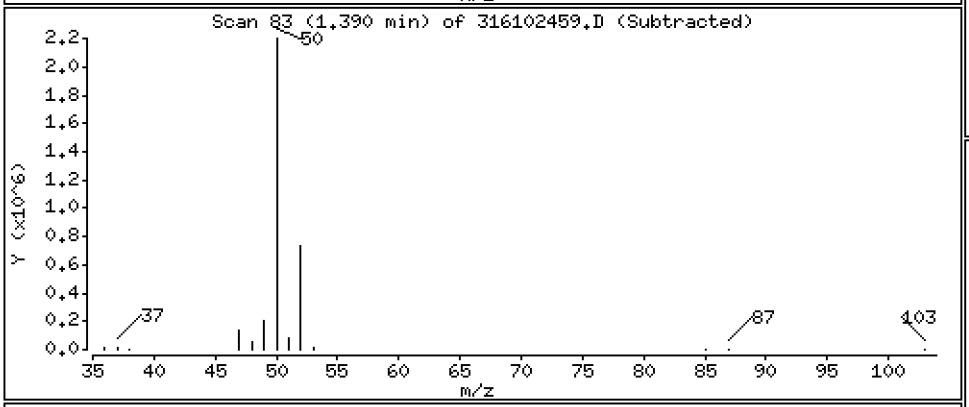
Sample Info: 1239;;1;1;6;;;

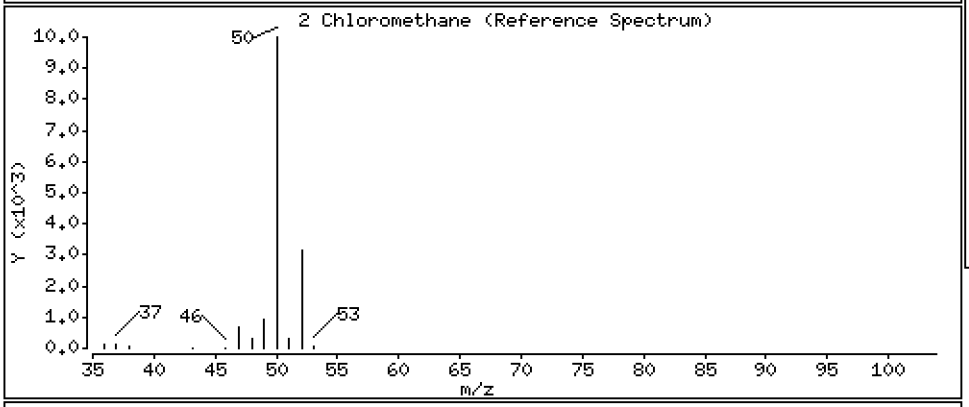
Purge Volume: 5.0 Operator: CJG

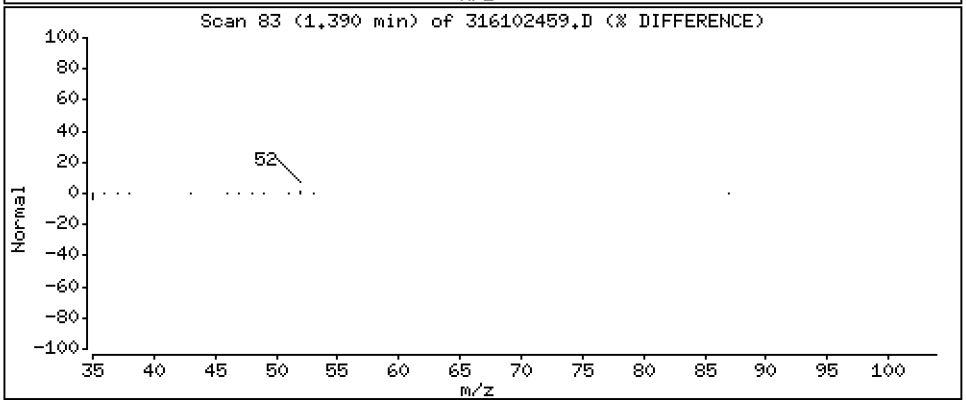
Column phase: DB-VRX Column diameter: 0.25

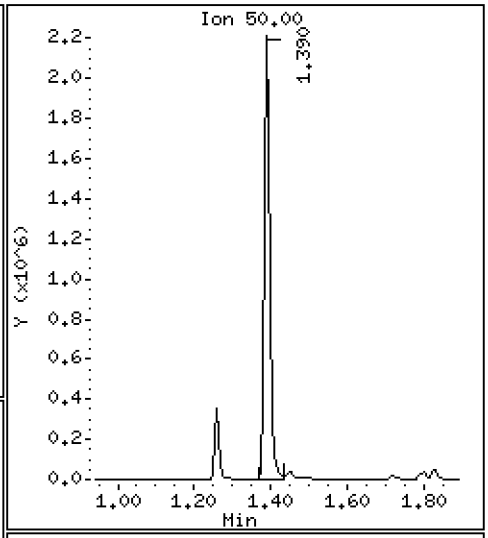
2 Chloromethane Concentration: 200.020 ug/L

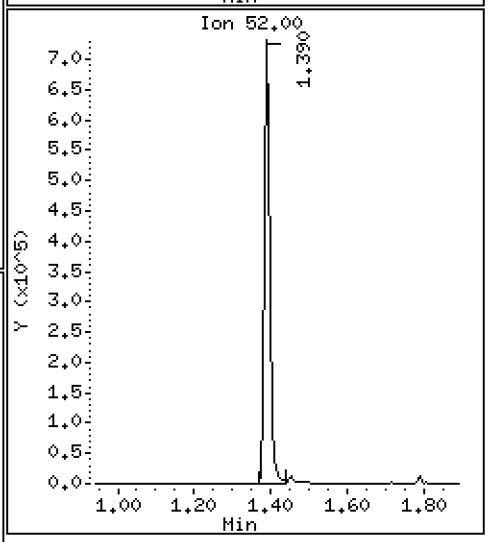












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 11

Date : 25-OCT-2016 01:36

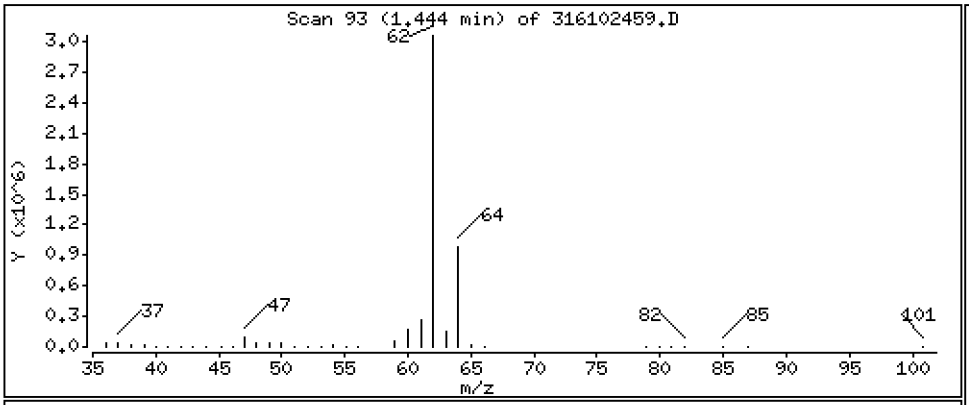
Client ID: Instrument: ms03.i

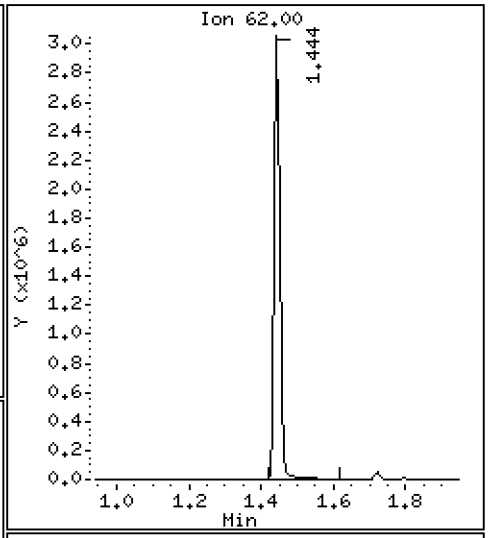
Sample Info: 1239;;1;1;6;;;

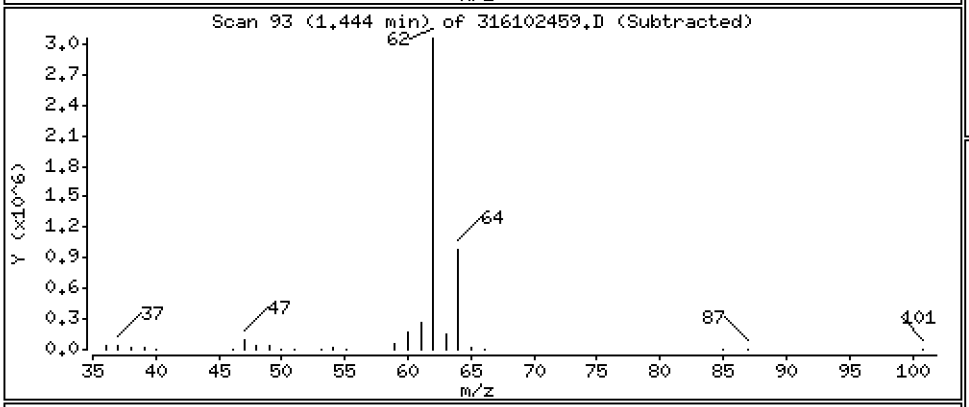
Purge Volume: 5.0 Operator: CJG

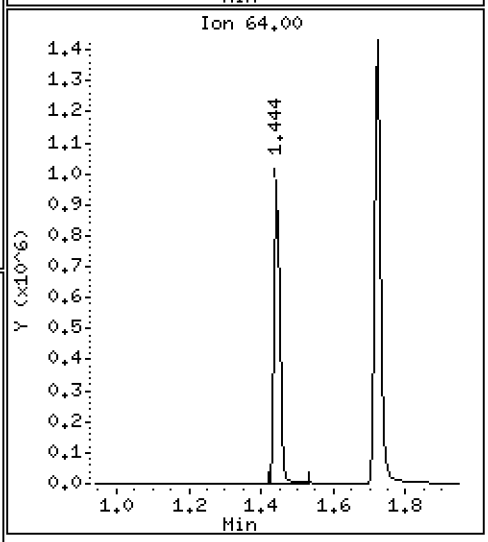
Column phase: DB-VRX Column diameter: 0.25

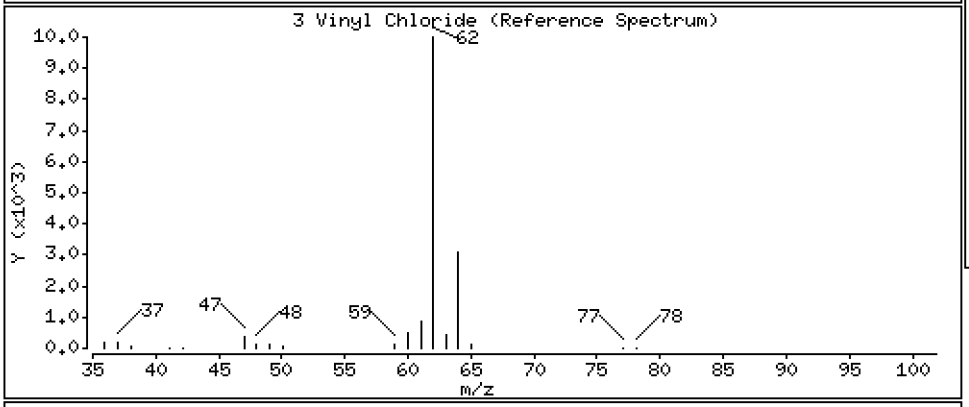
3 Vinyl Chloride Concentration: 199.986 ug/L

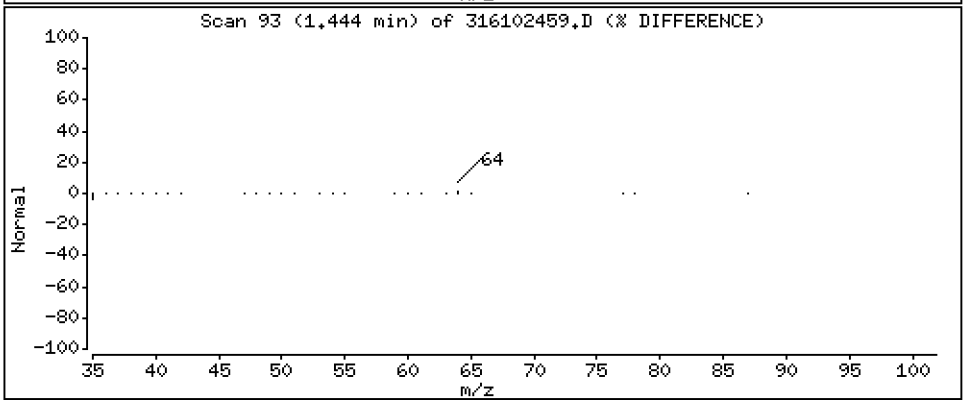












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 12

Date : 25-OCT-2016 01:36

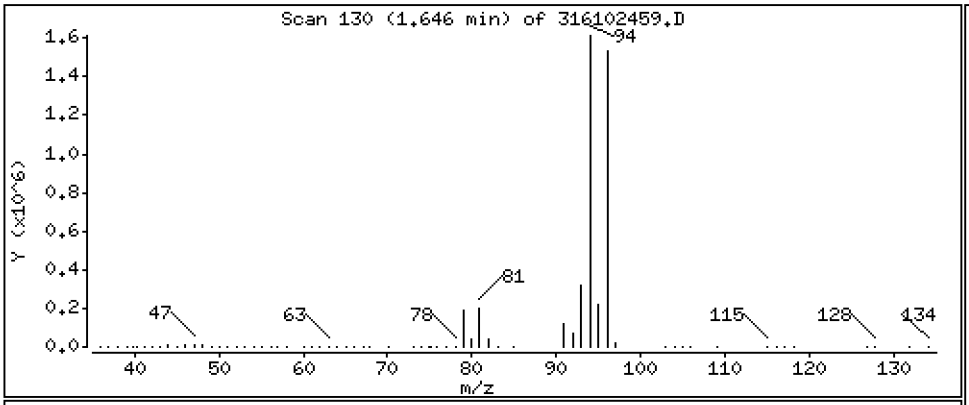
Client ID: Instrument: ms03.i

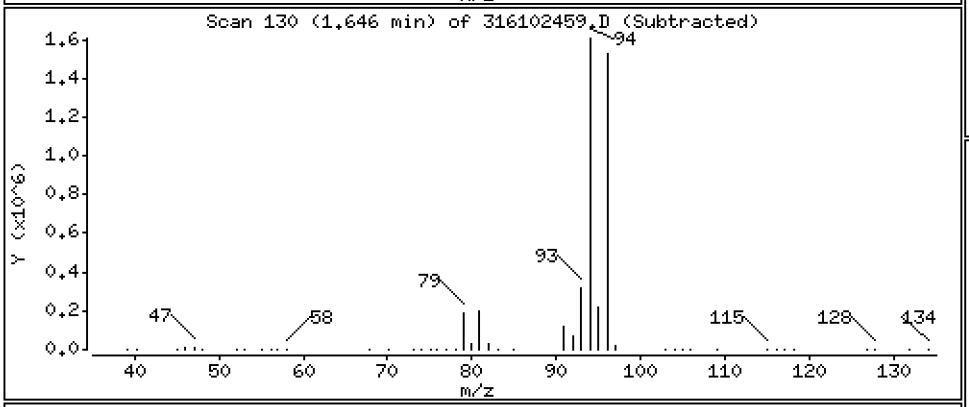
Sample Info: 1239;;1;1;6;;;

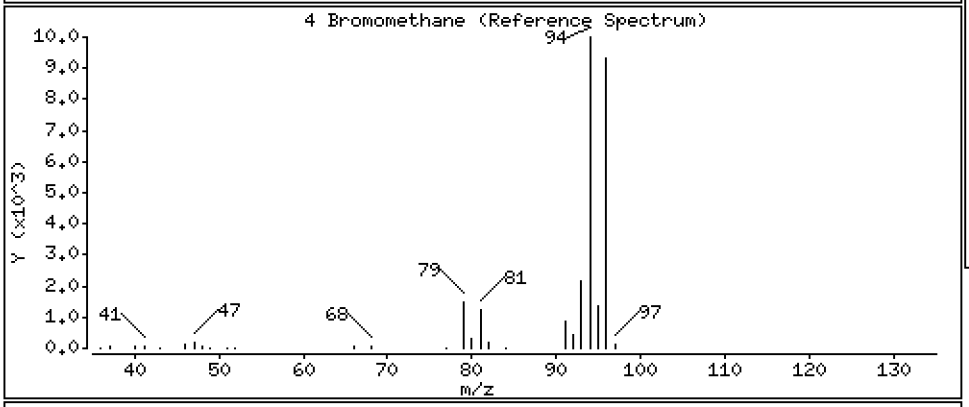
Purge Volume: 5.0 Operator: CJG

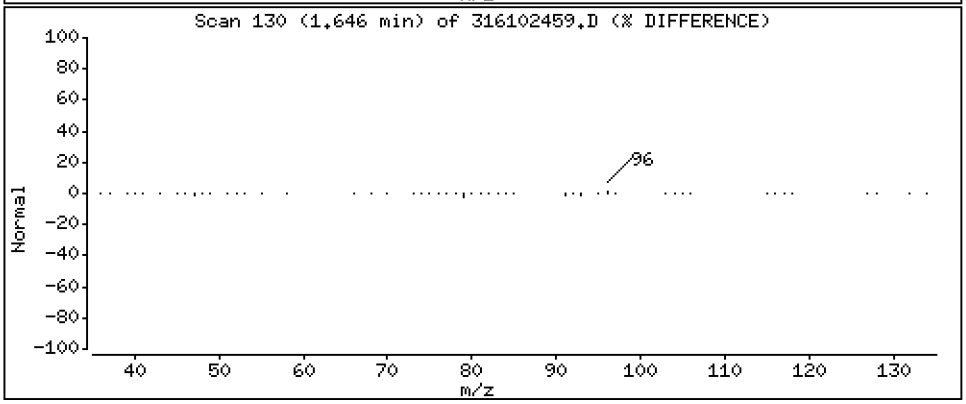
Column phase: DB-VRX Column diameter: 0.25

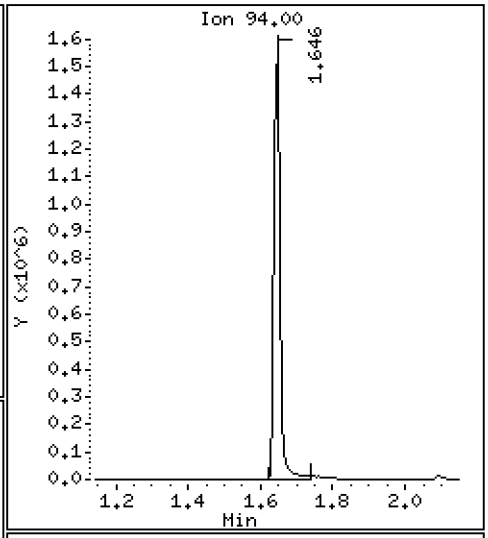
4 Bromomethane Concentration: 199.801 ug/L

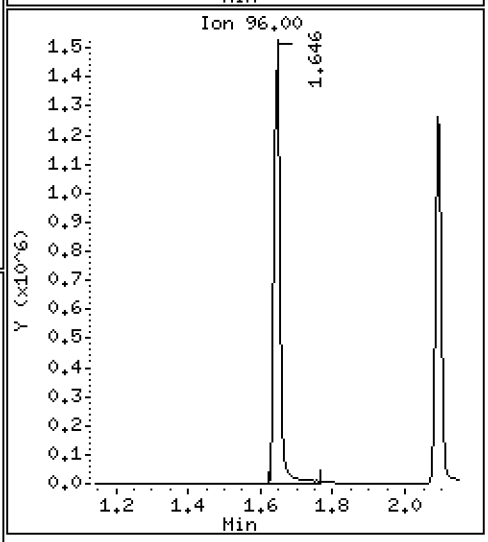












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 13

Date : 25-OCT-2016 01:36

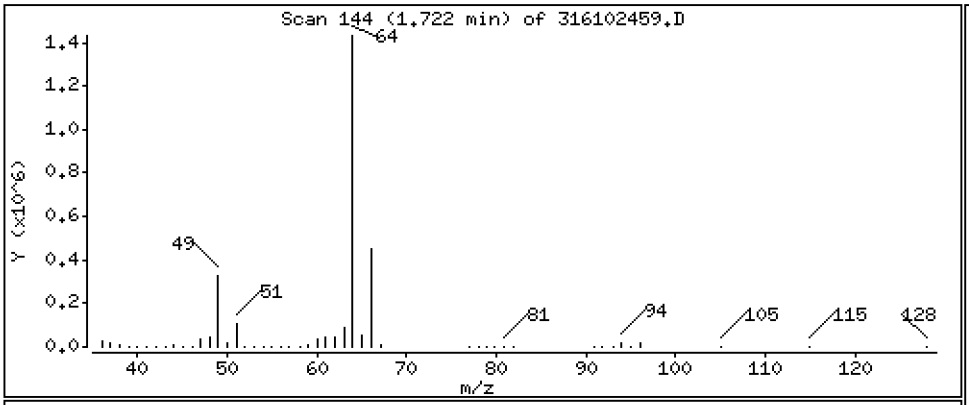
Client ID: Instrument: ms03.i

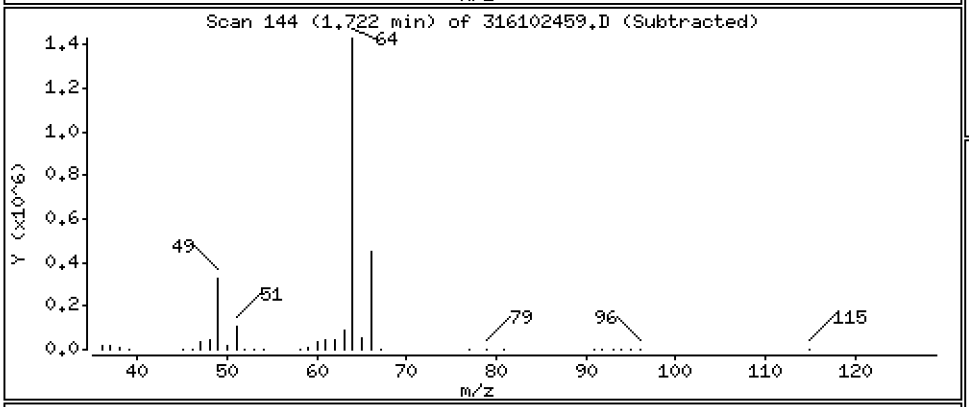
Sample Info: 1239;;1;1;6;;;

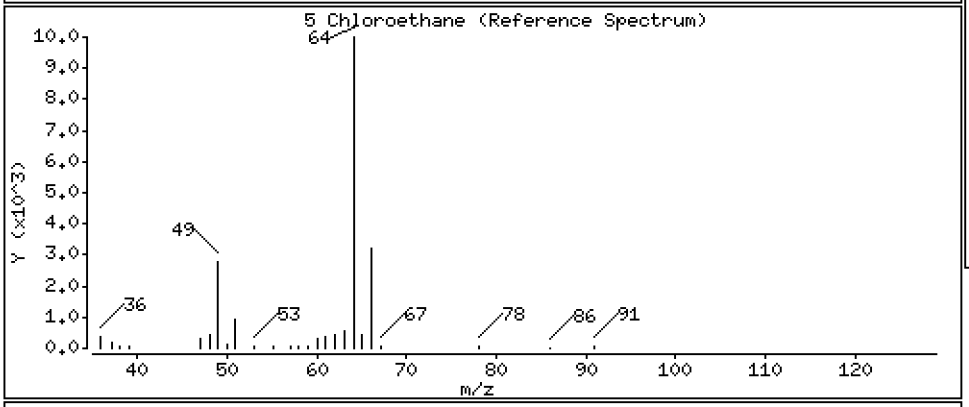
Purge Volume: 5.0 Operator: CJG

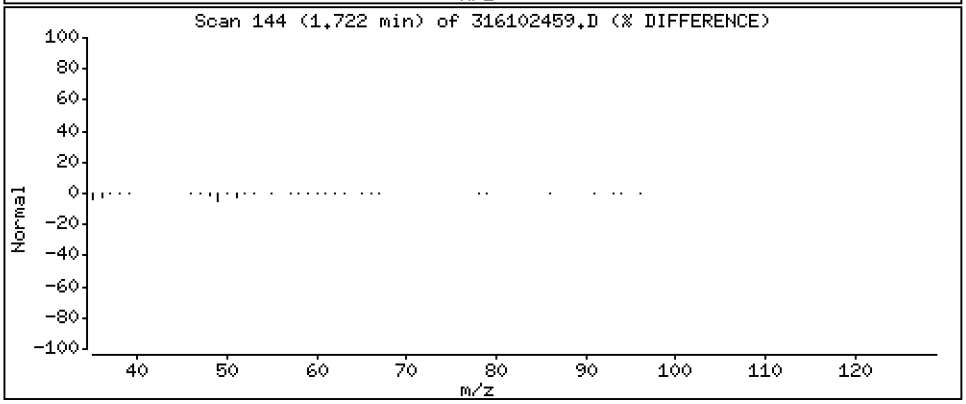
Column phase: DB-VRX Column diameter: 0.25

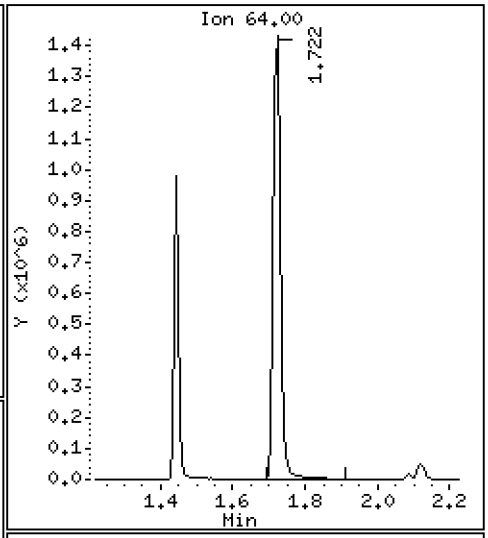
5 Chloroethane Concentration: 199.997 ug/L

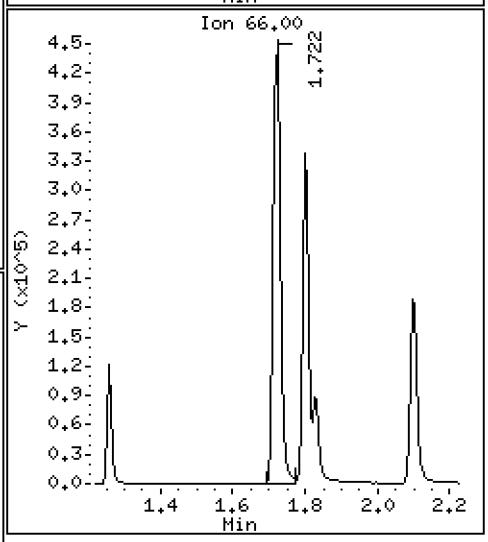












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 14

Date : 25-OCT-2016 01:36

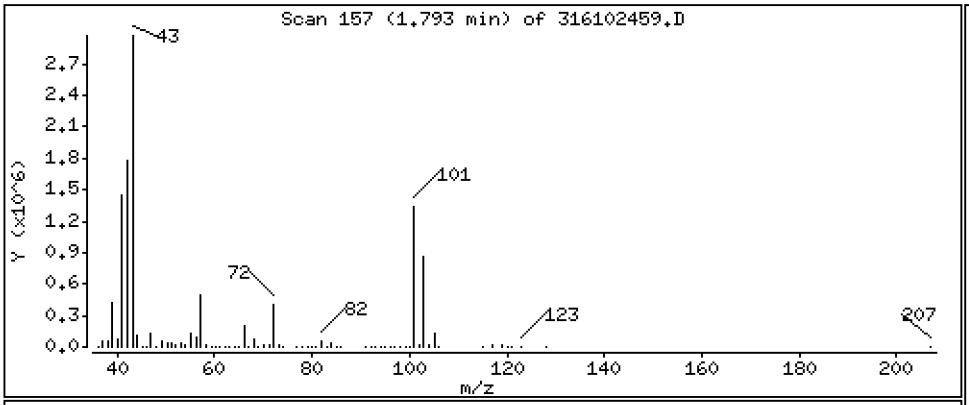
Client ID: Instrument: ms03.i

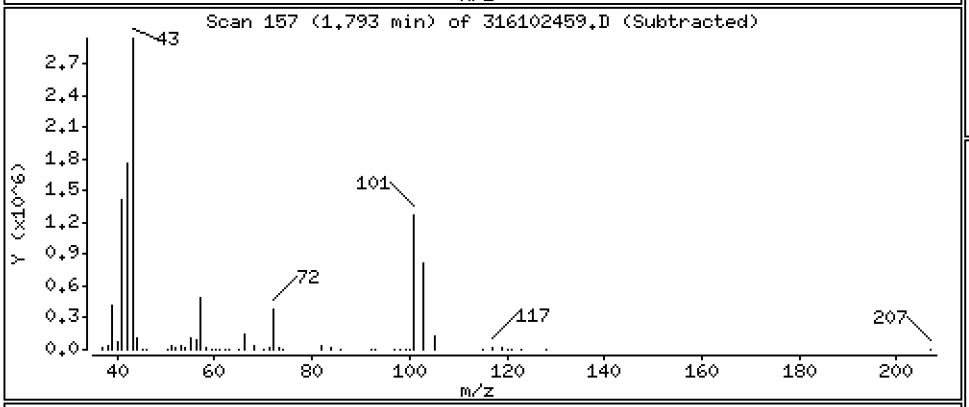
Sample Info: 1239;;1;1;6;;;

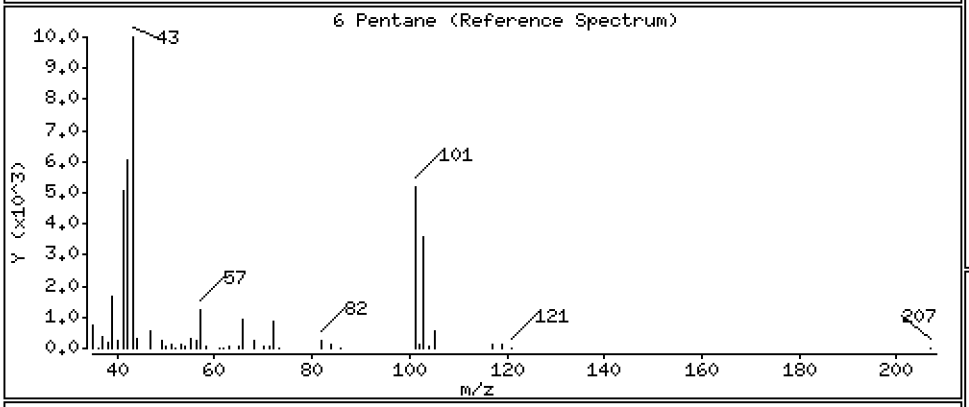
Purge Volume: 5.0 Operator: CJG

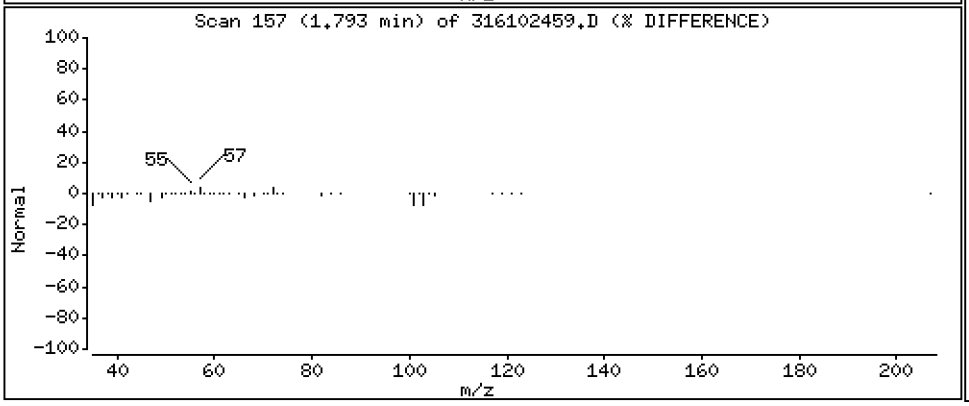
Column phase: DB-VRX Column diameter: 0.25

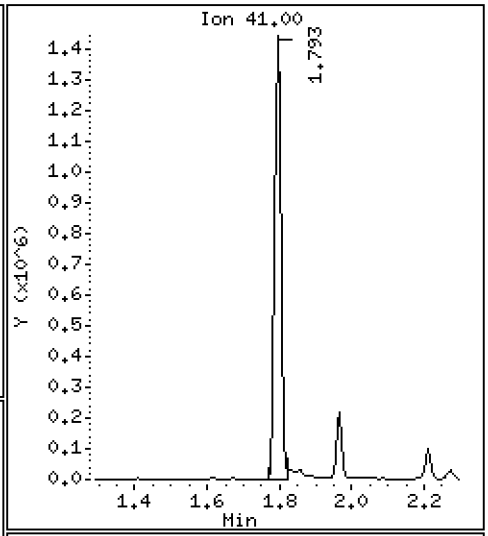
6 Pentane Concentration: 200.202 ug/L

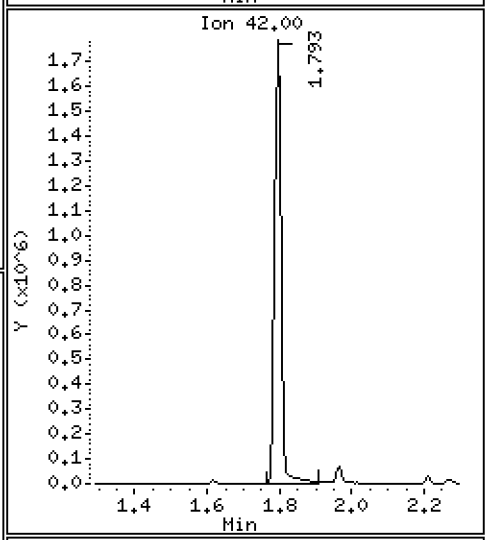


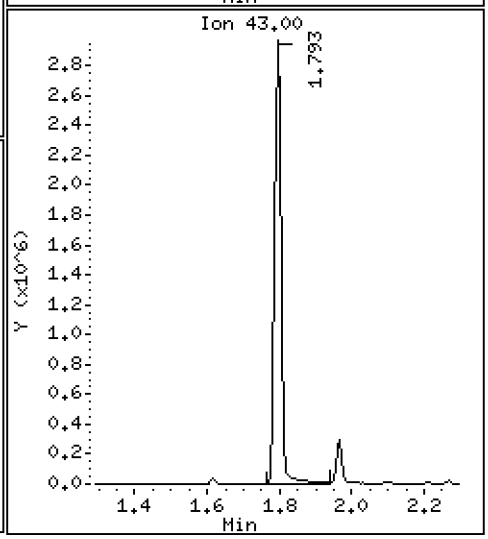












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 15

Date : 25-OCT-2016 01:36

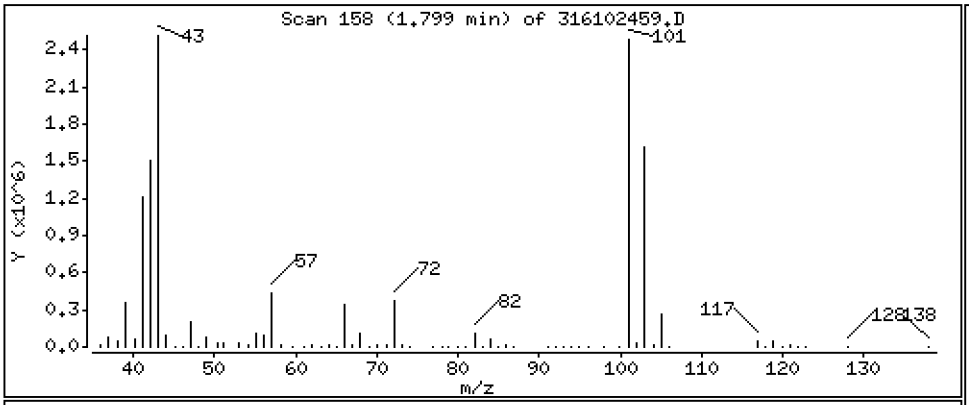
Client ID: Instrument: ms03.i

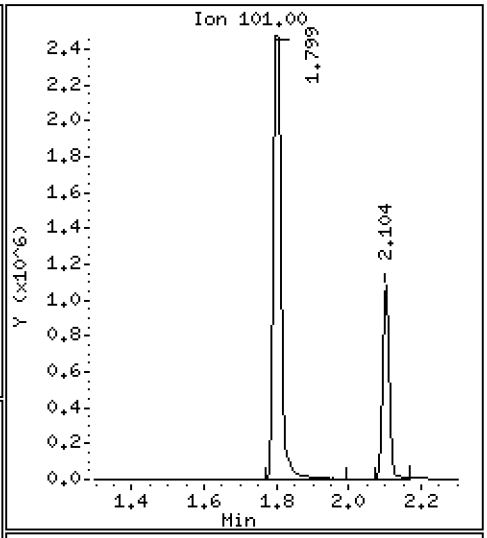
Sample Info: 1239;;1;1;6;;;

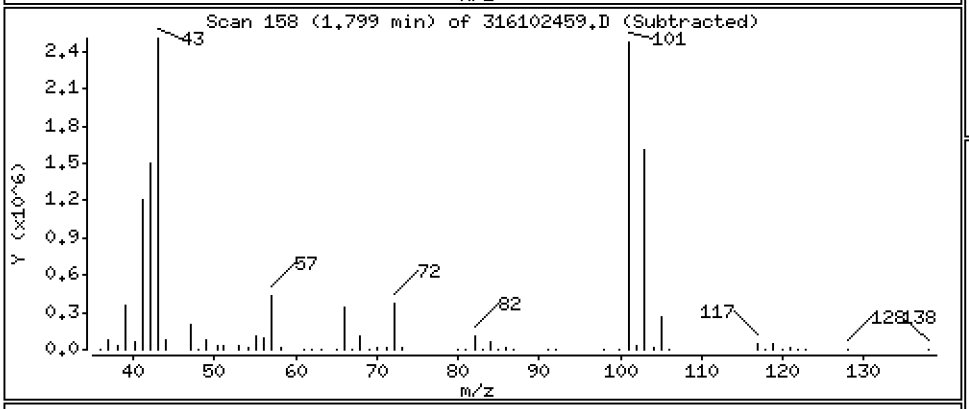
Purge Volume: 5.0 Operator: CJG

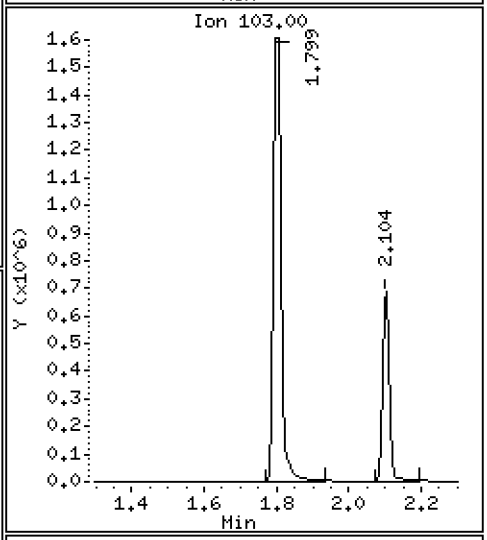
Column phase: DB-VRX Column diameter: 0.25

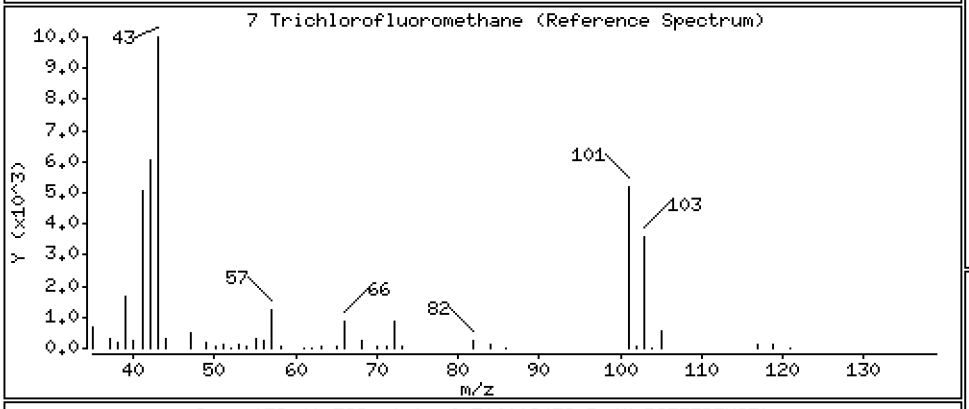
7 Trichlorofluoromethane Concentration: 200.152 ug/L

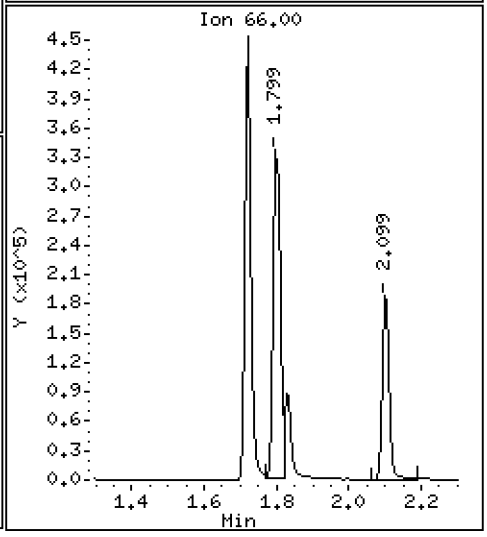


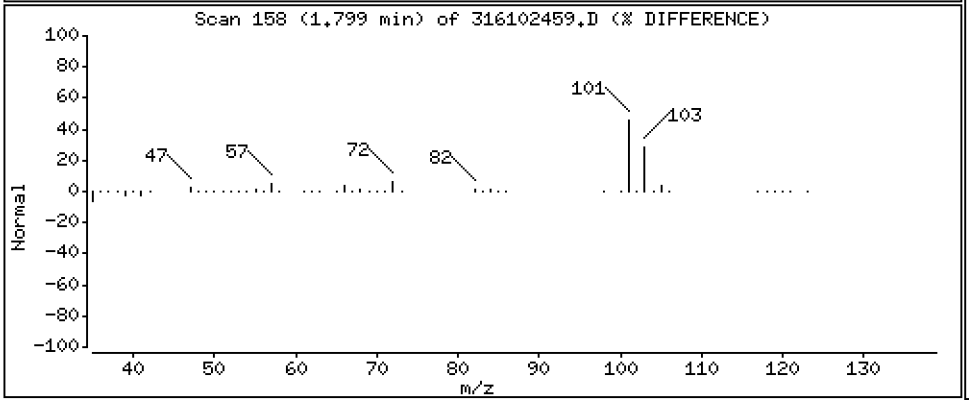












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 16

Date : 25-OCT-2016 01:36

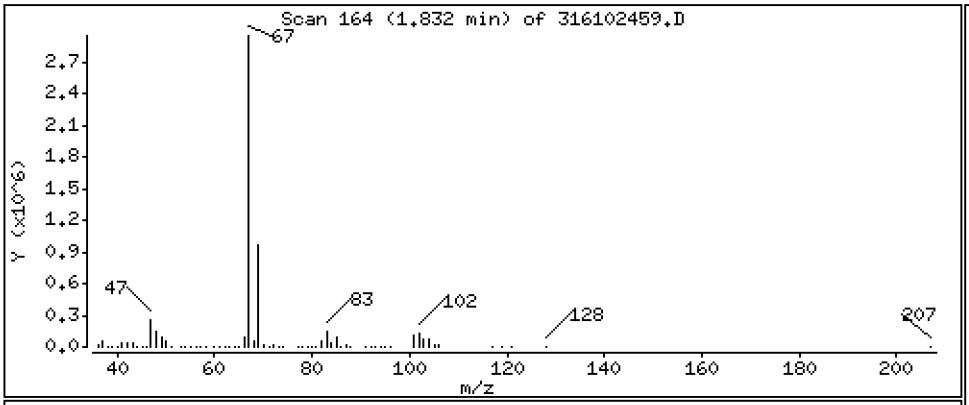
Client ID: Instrument: ms03.i

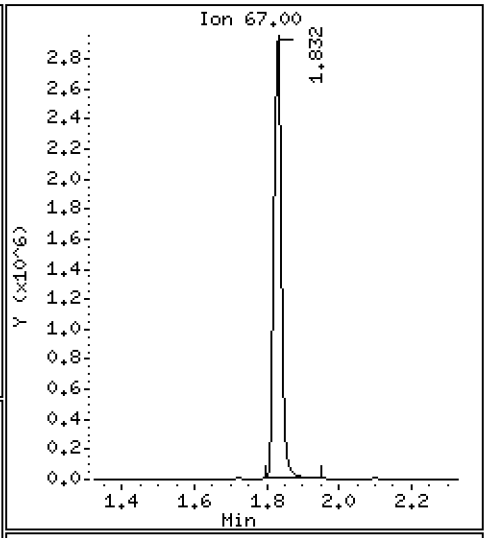
Sample Info: 1239;;1;1;6;;;

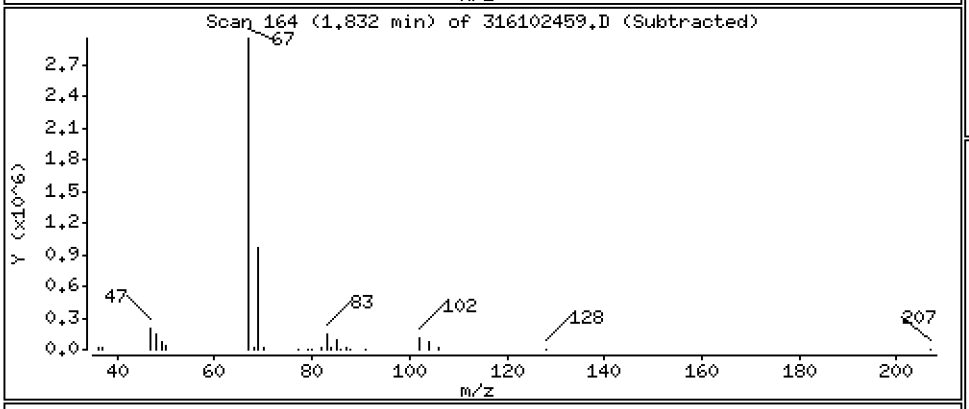
Purge Volume: 5.0 Operator: CJG

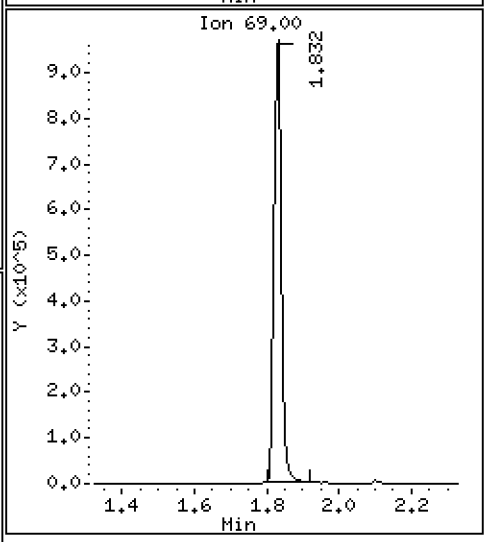
Column phase: DB-VRX Column diameter: 0.25

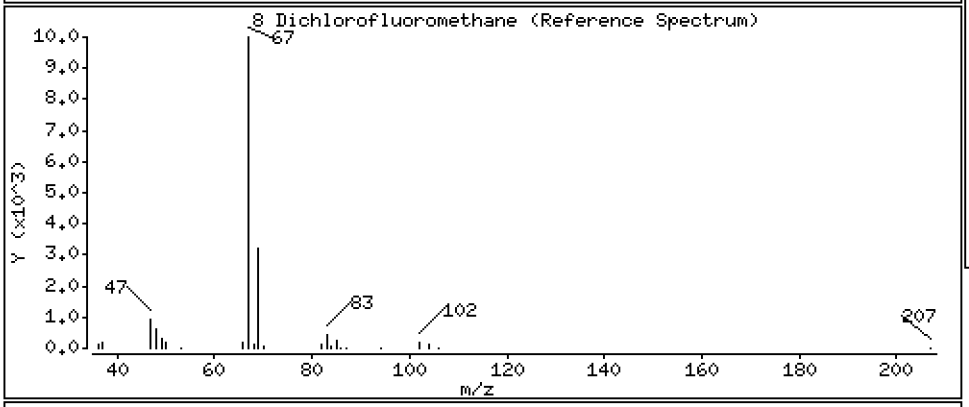
8 Dichlorofluoromethane Concentration: 200.011 ug/L

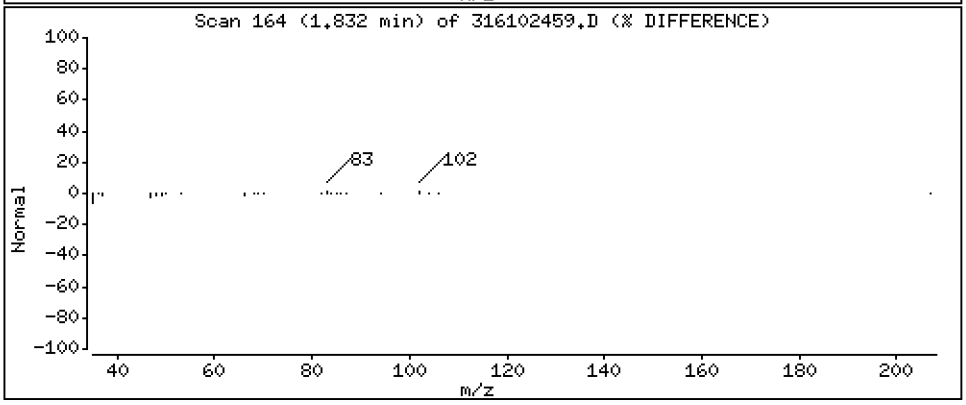












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 17

Date : 25-OCT-2016 01:36

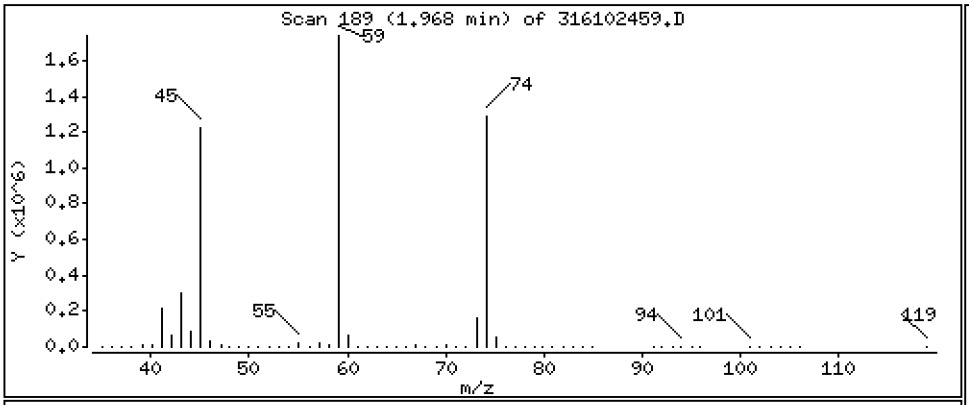
Client ID: Instrument: ms03.i

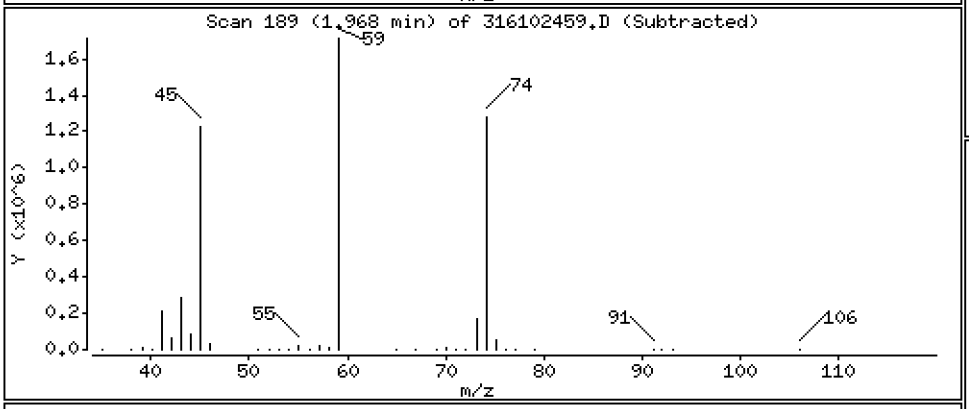
Sample Info: 1239;;1;1;6;;;

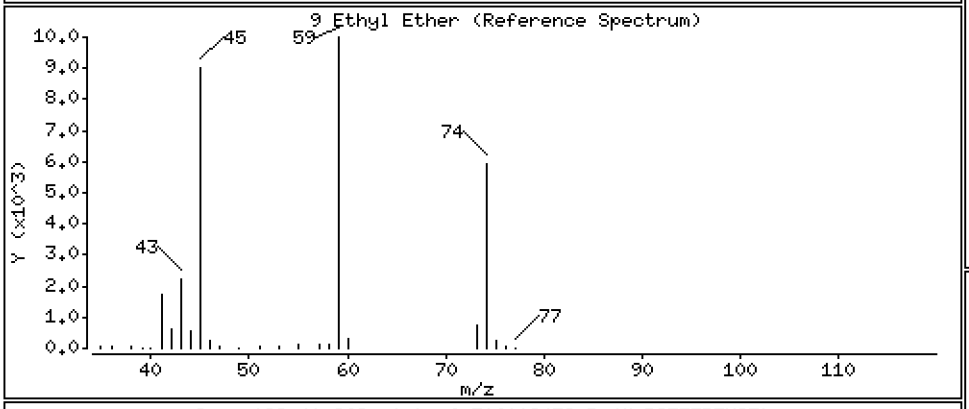
Purge Volume: 5.0 Operator: CJG

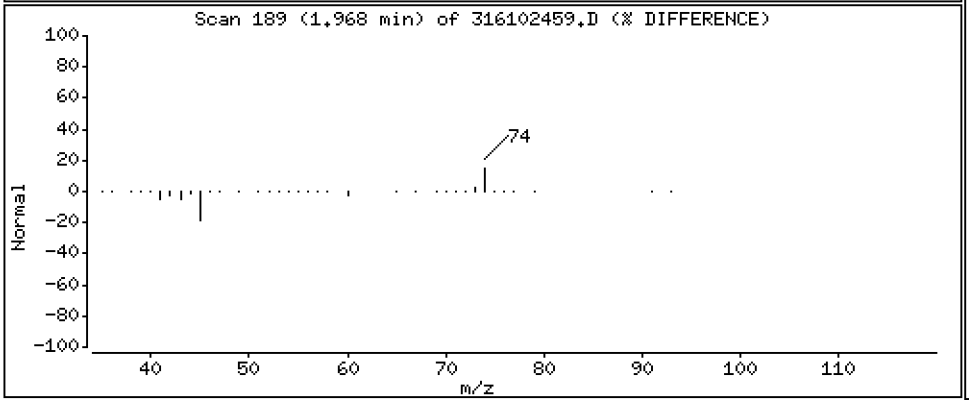
Column phase: DB-VRX Column diameter: 0.25

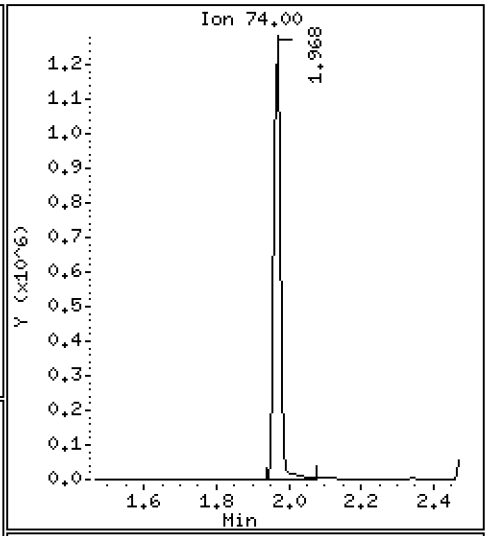
9 Ethyl Ether Concentration: 200.245 ug/L

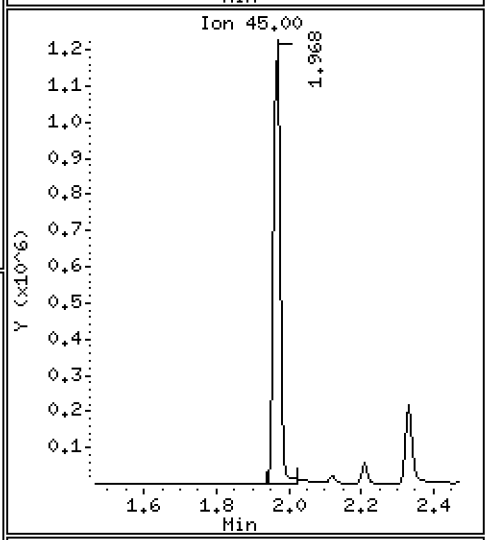


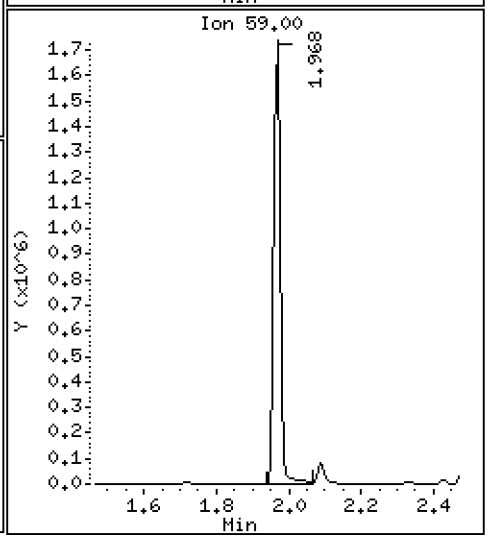












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 18

Date : 25-OCT-2016 01:36

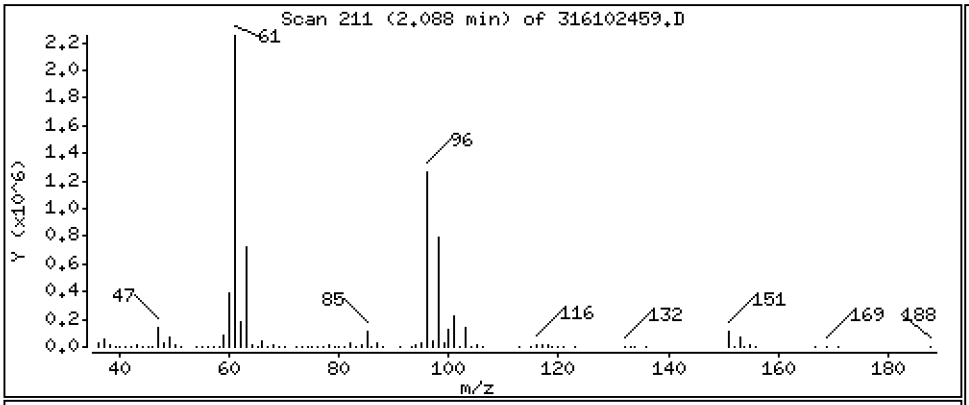
Client ID: Instrument: ms03.i

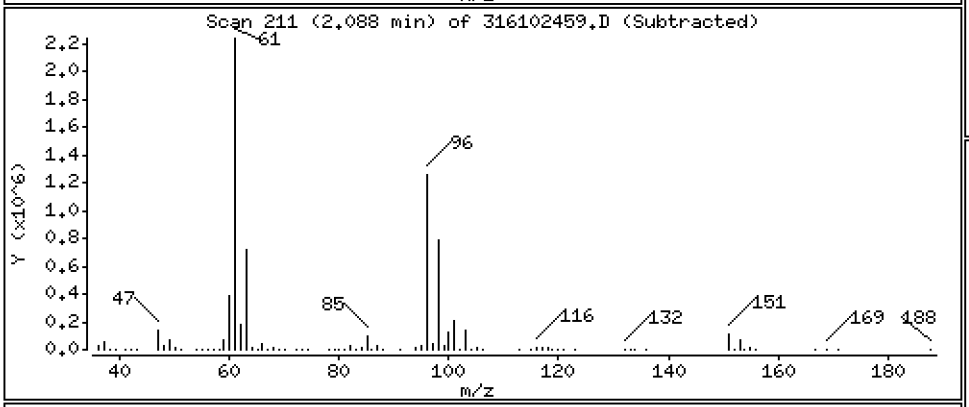
Sample Info: 1239;;1;1;6;;;

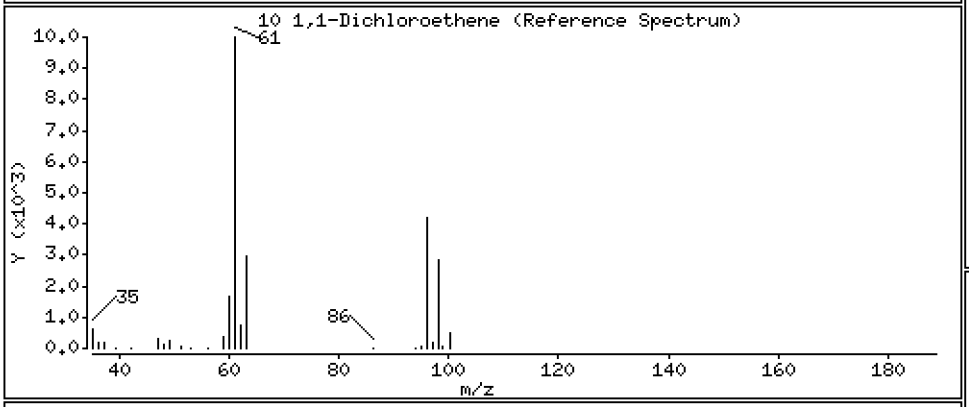
Purge Volume: 5.0 Operator: CJG

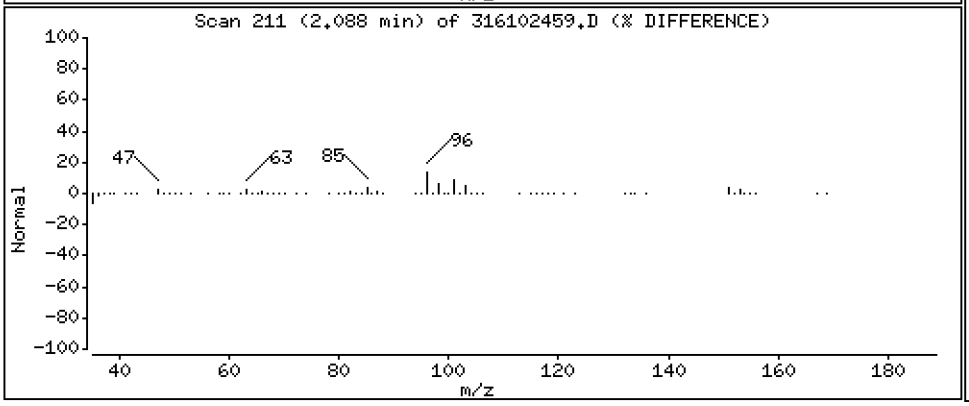
Column phase: DB-VRX Column diameter: 0.25

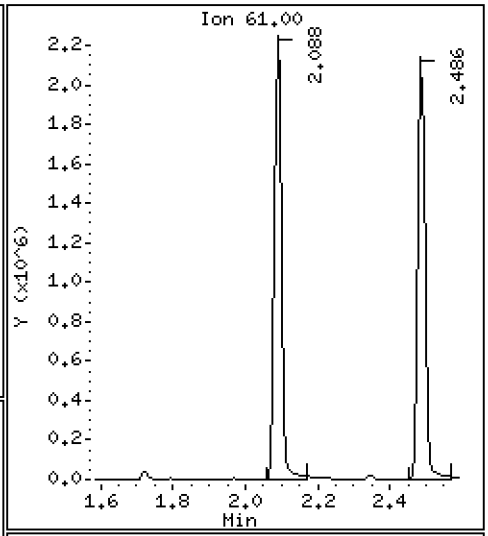
10 1,1-Dichloroethene Concentration: 200.031 ug/L

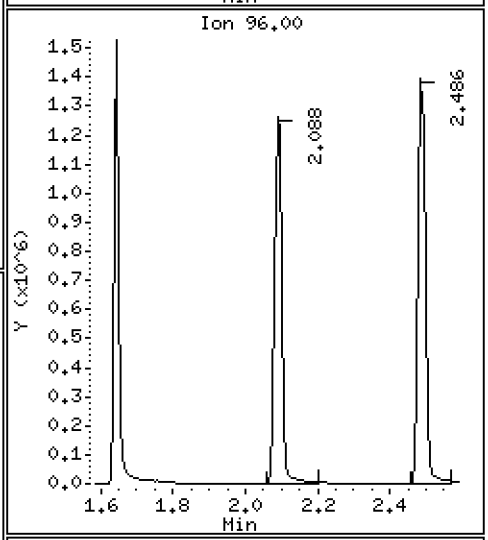


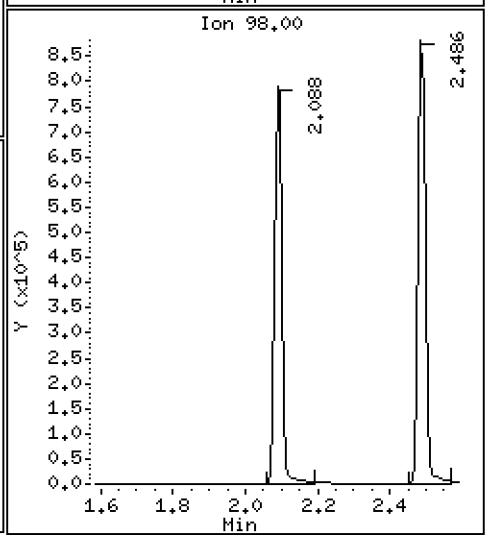












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 19

Date : 25-OCT-2016 01:36

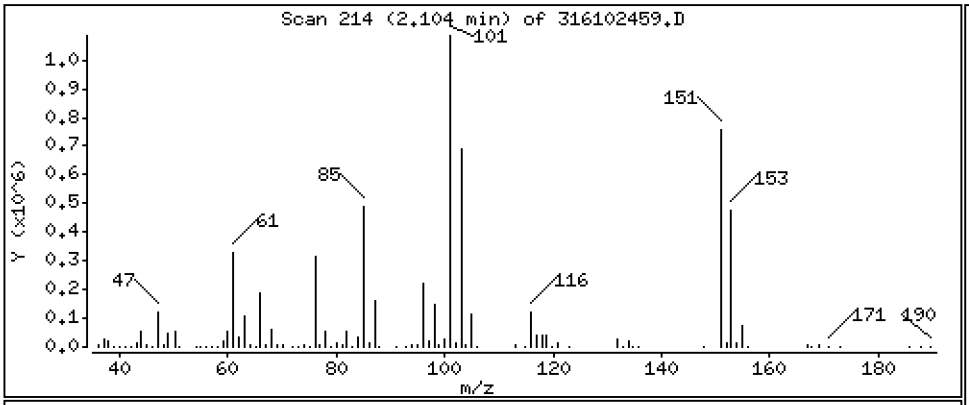
Client ID: Instrument: ms03.i

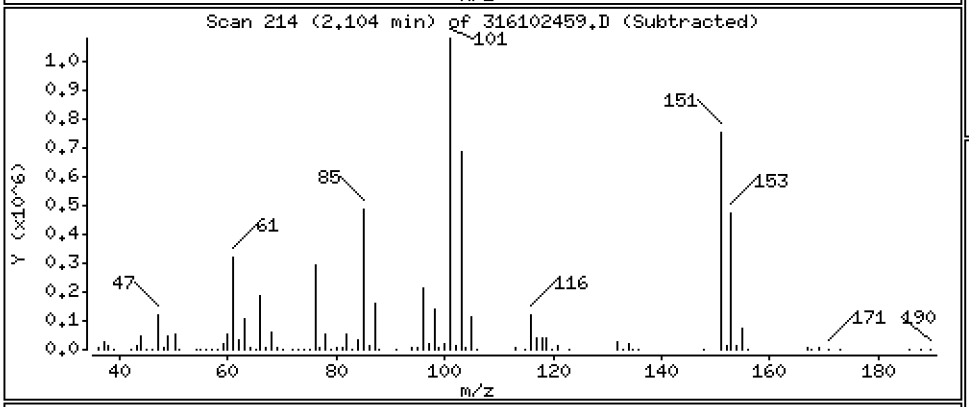
Sample Info: 1239;;1;1;6;;;

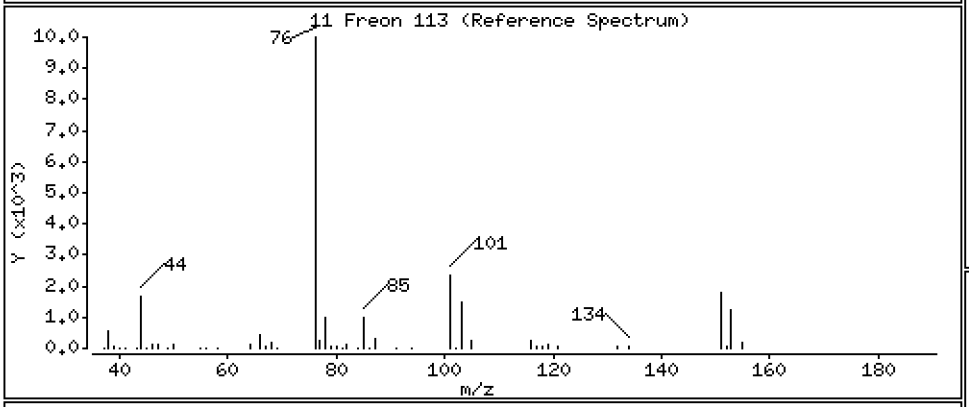
Purge Volume: 5.0 Operator: CJG

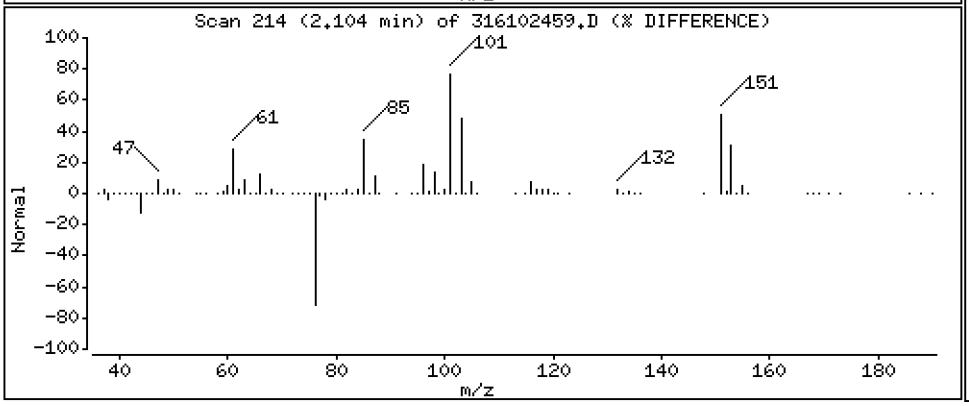
Column phase: DB-VRX Column diameter: 0.25

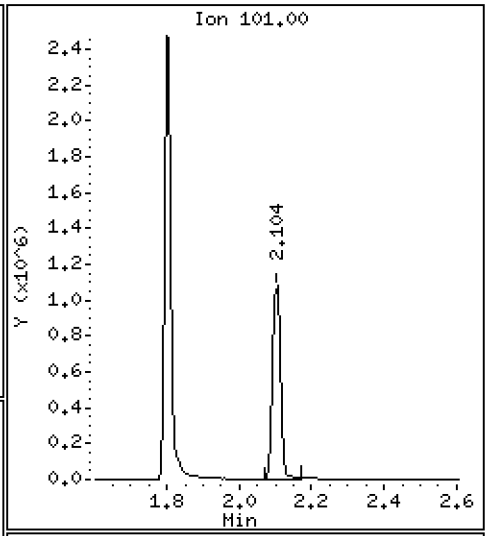
11 Freon 113 Concentration: 200.150 ug/L

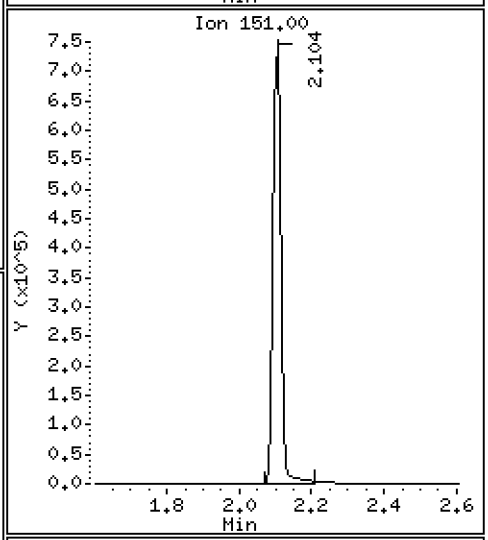


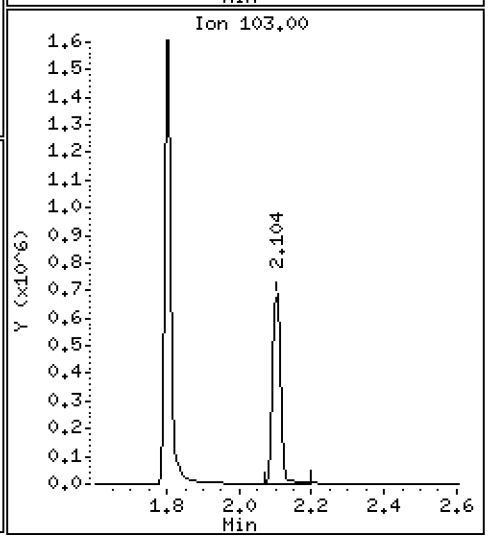












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 20

Date : 25-OCT-2016 01:36

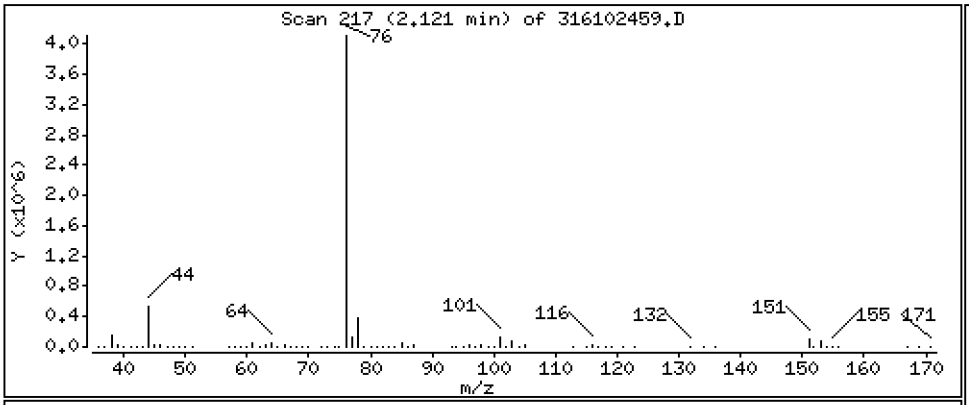
Client ID: Instrument: ms03.i

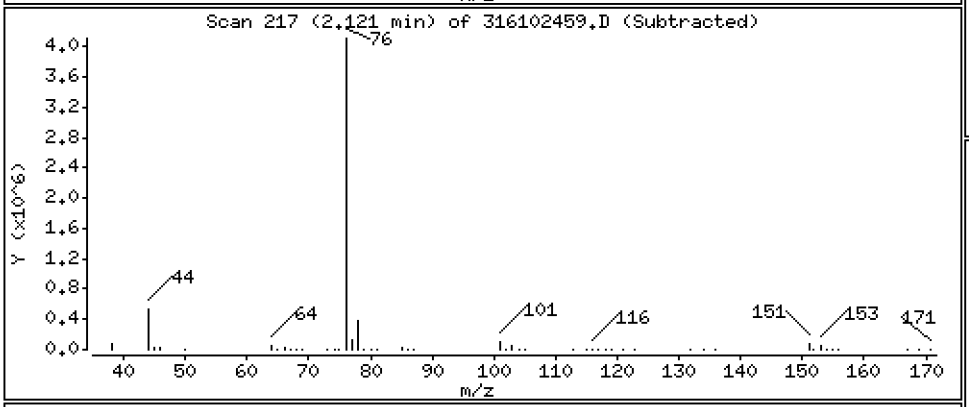
Sample Info: 1239;;1;1;6;;;

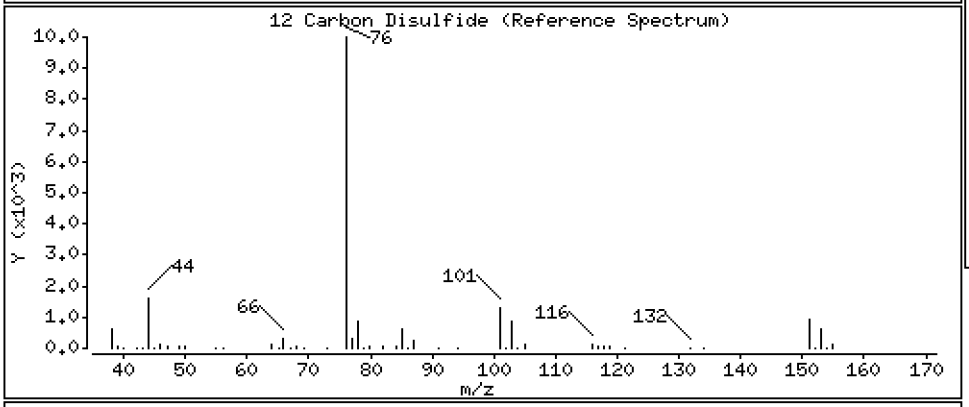
Purge Volume: 5.0 Operator: CJG

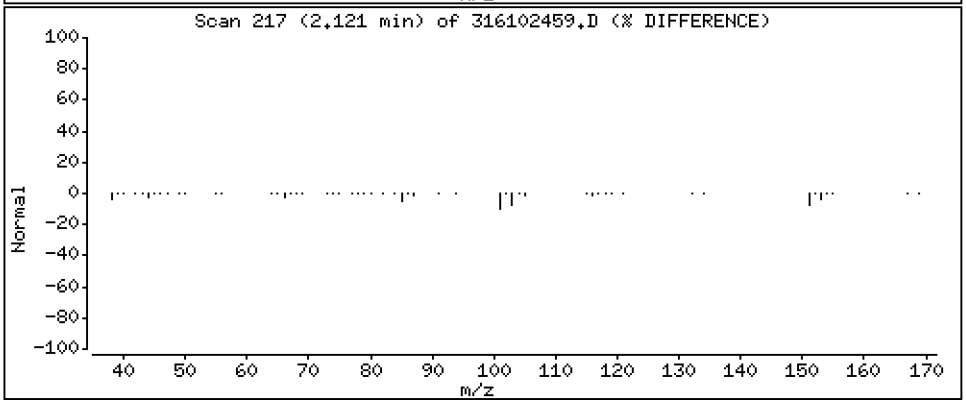
Column phase: DB-VRX Column diameter: 0.25

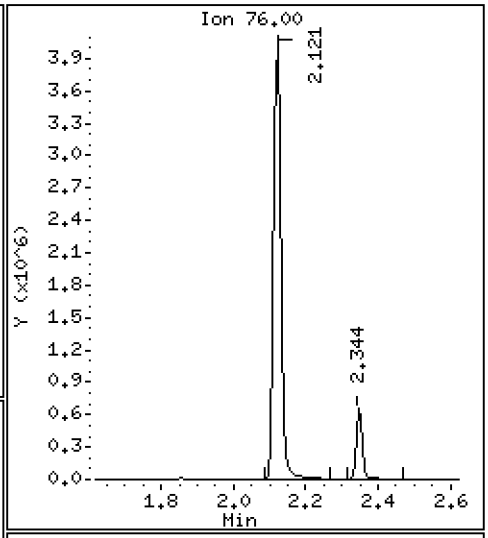
12 Carbon Disulfide Concentration: 199.764 ug/L

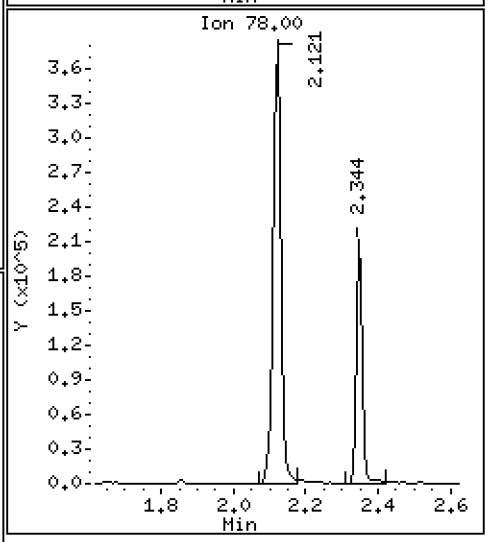












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 21

Date : 25-OCT-2016 01:36

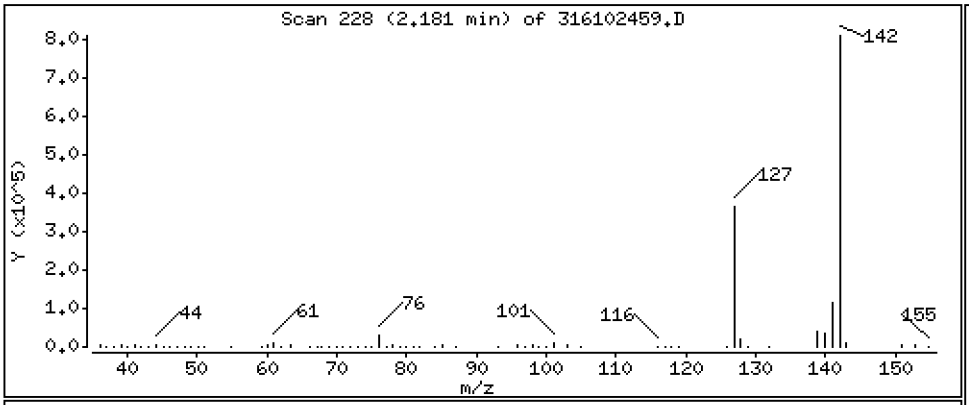
Client ID: Instrument: ms03.i

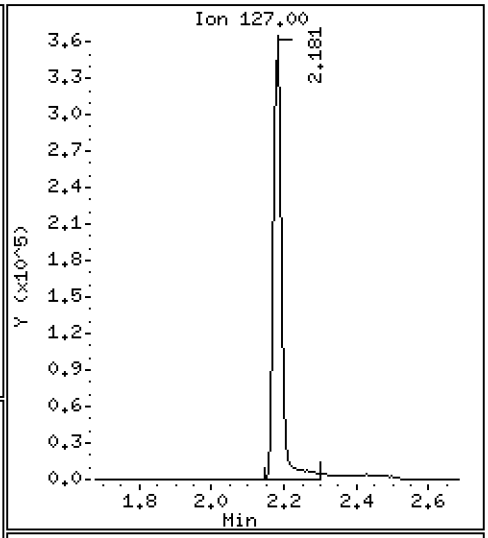
Sample Info: 1239;;1;1;6;;;

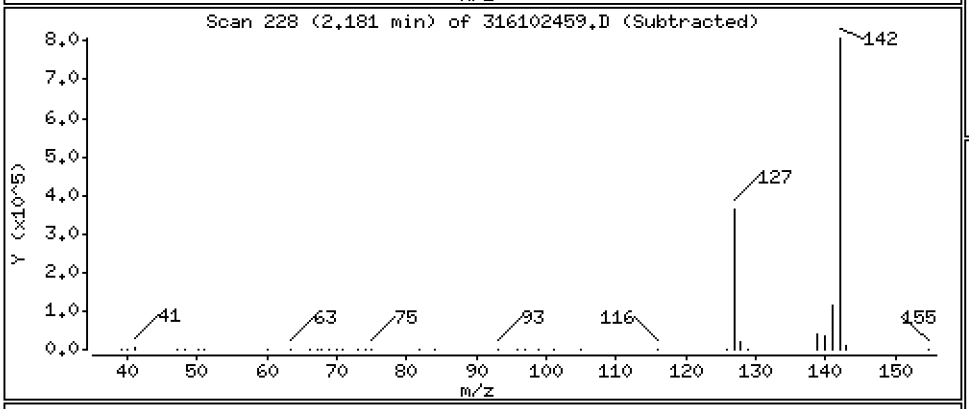
Purge Volume: 5.0 Operator: CJG

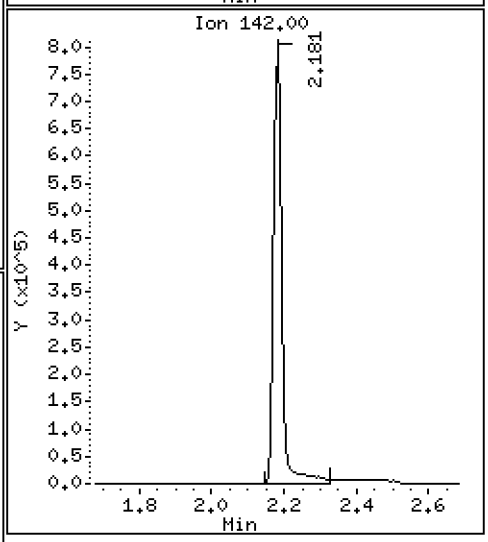
Column phase: DB-VRX Column diameter: 0.25

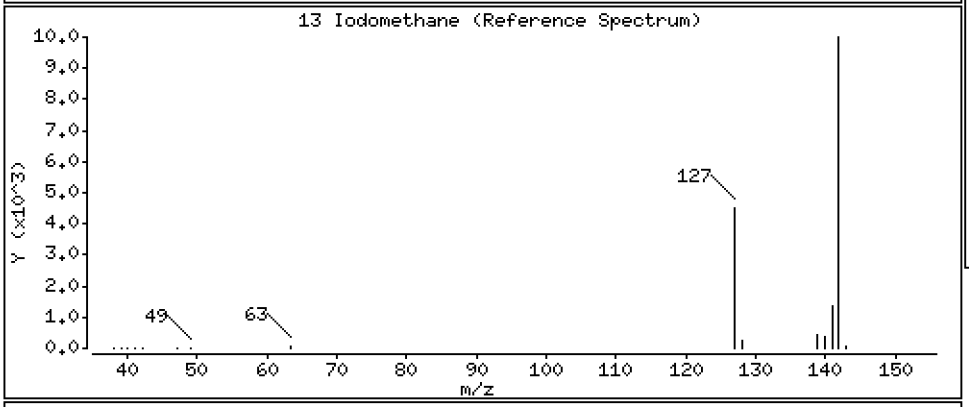
13 Iodomethane Concentration: 199.511 ug/L

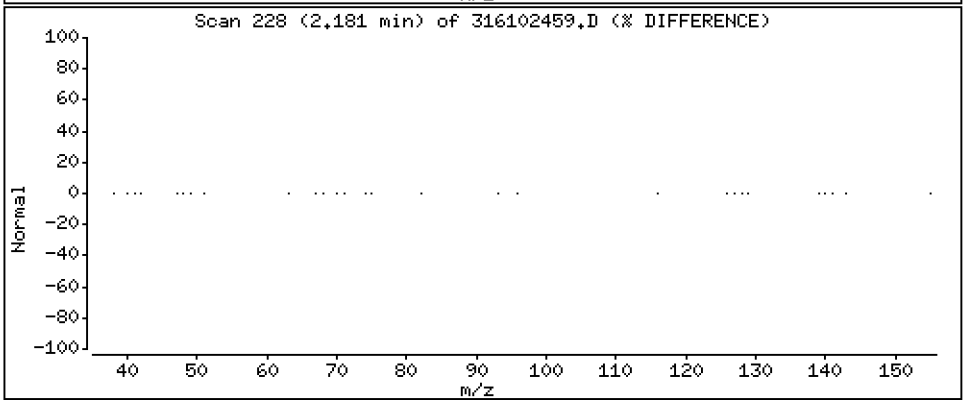












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 22

Date : 25-OCT-2016 01:36

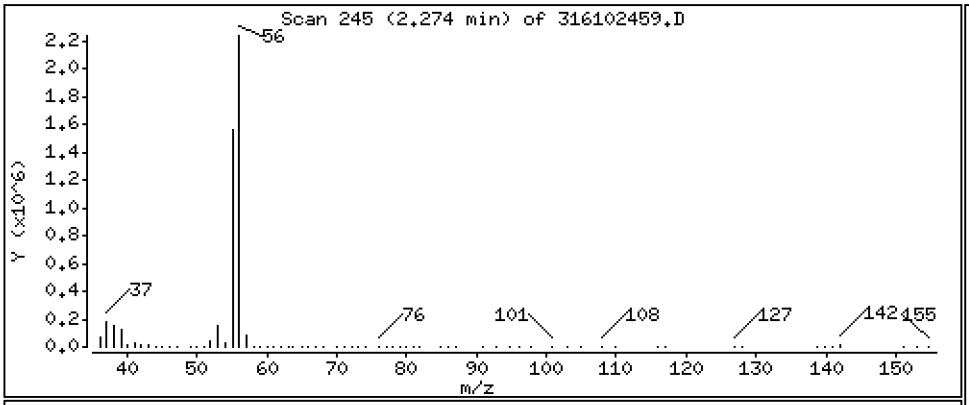
Client ID: Instrument: ms03.i

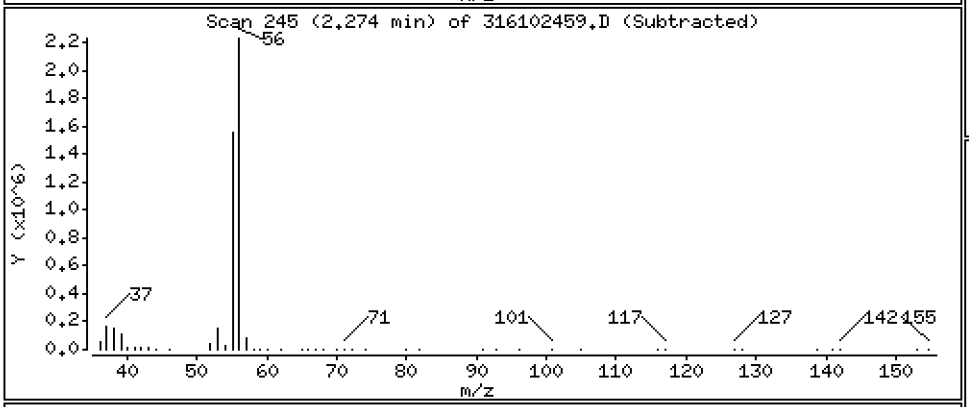
Sample Info: 1239;;1;1;6;;;

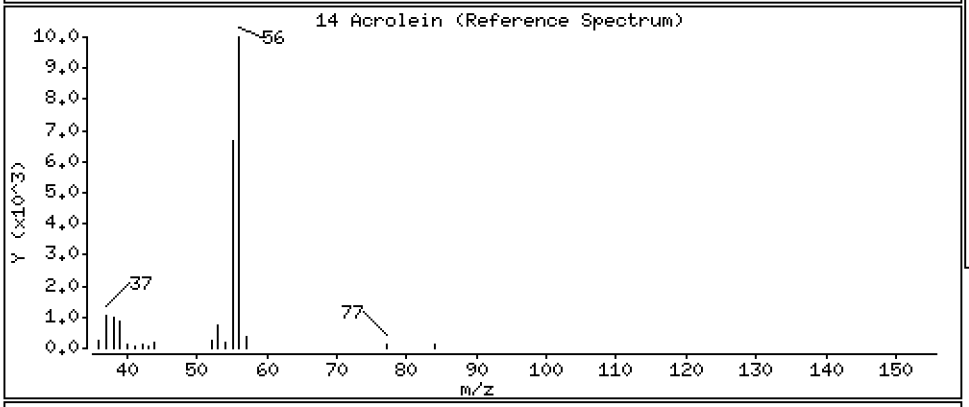
Purge Volume: 5.0 Operator: CJG

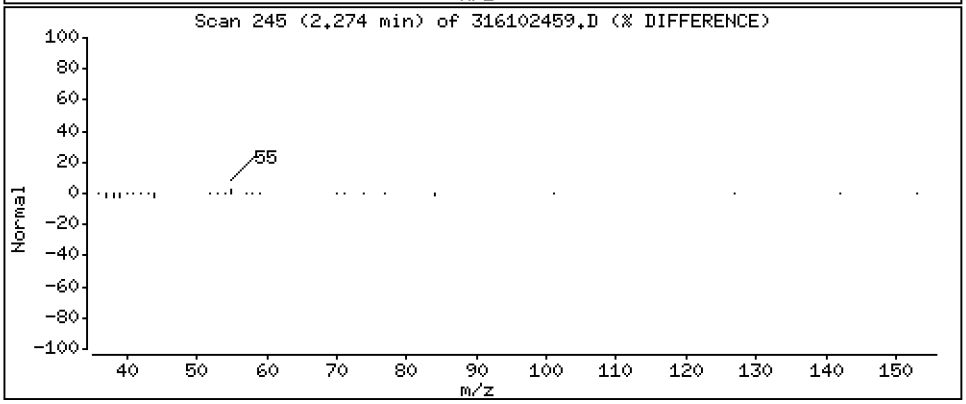
Column phase: DB-VRX Column diameter: 0.25

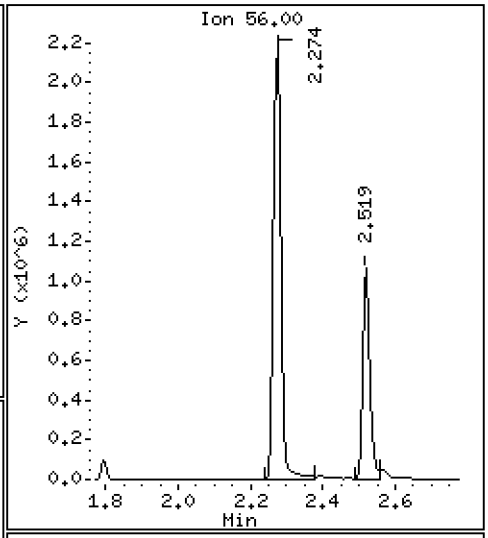
14 Acrolein Concentration: 1999.80 ug/L

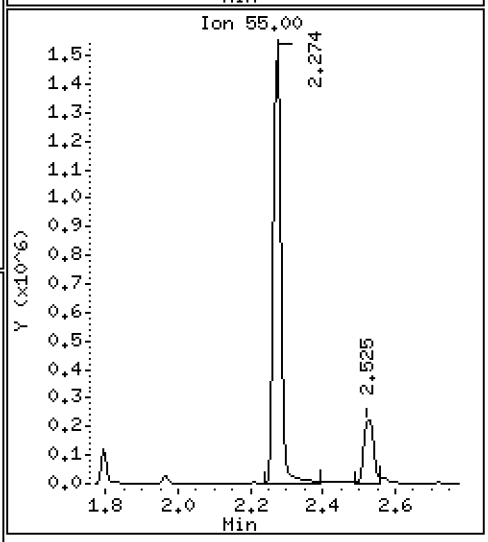












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 23

Date : 25-OCT-2016 01:36

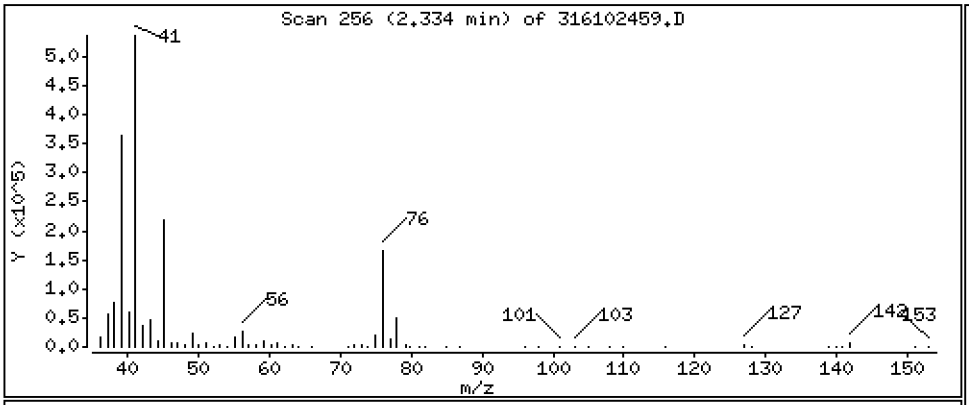
Client ID: Instrument: ms03.i

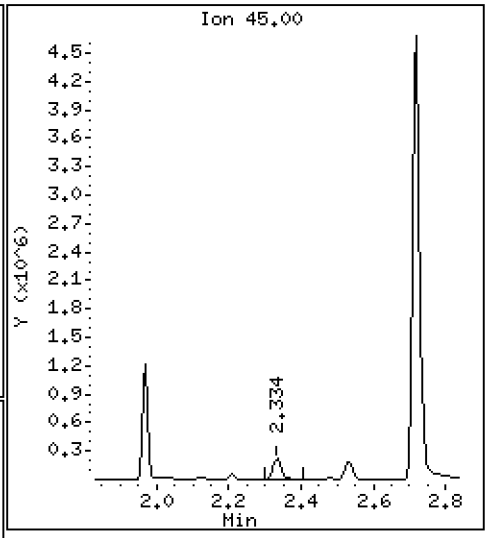
Sample Info: 1239;;1;1;6;;;

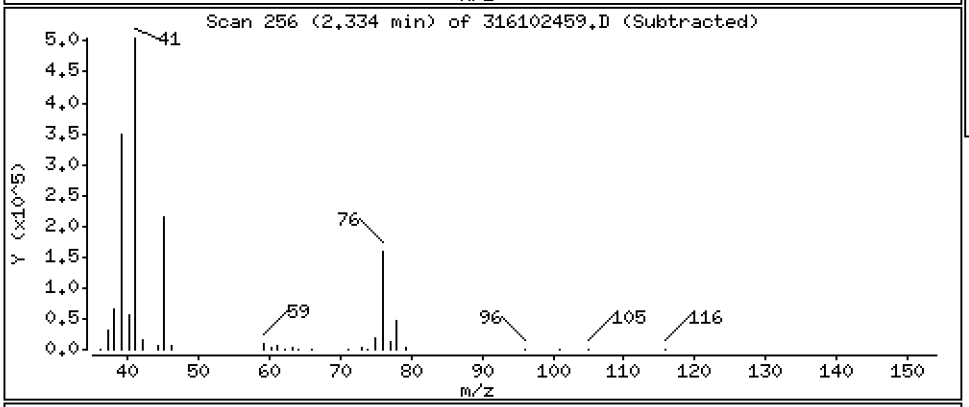
Purge Volume: 5.0 Operator: CJG

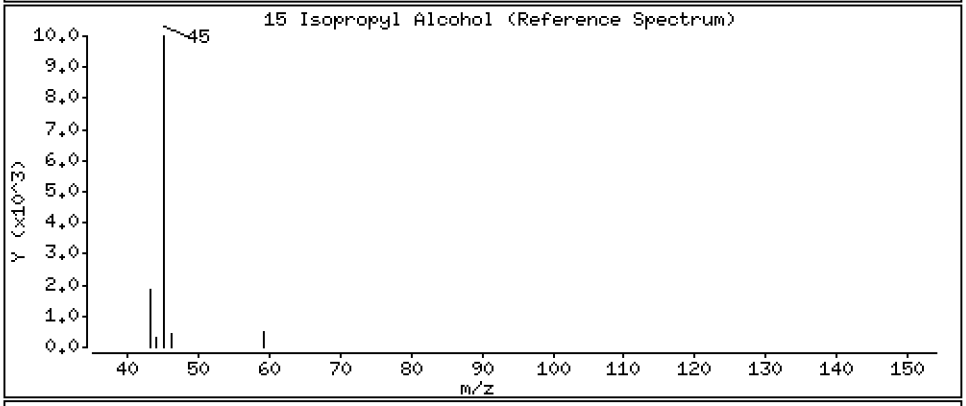
Column phase: DB-VRX Column diameter: 0.25

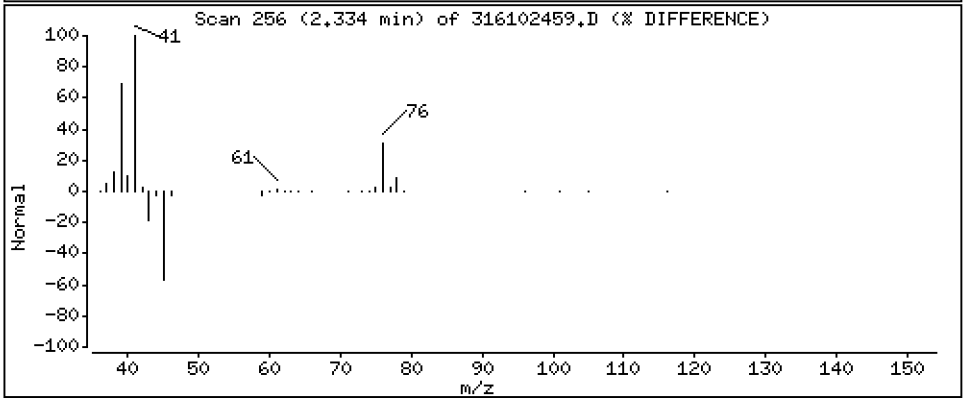
15 Isopropyl Alcohol Concentration: 1000.95 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 24

Date : 25-OCT-2016 01:36

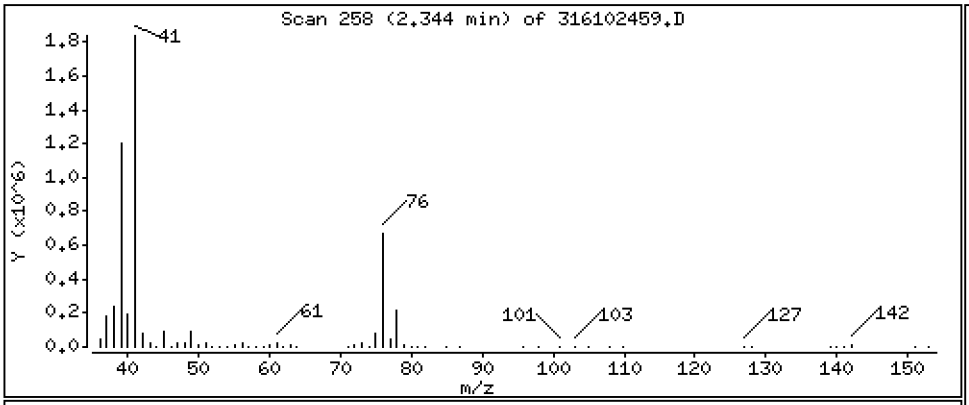
Client ID: Instrument: ms03.i

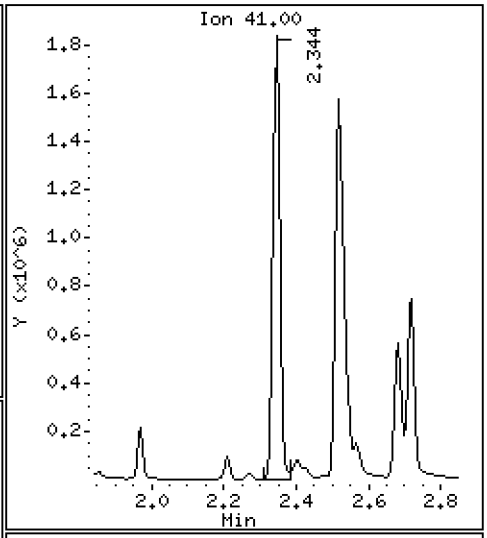
Sample Info: 1239;;1;1;6;;;

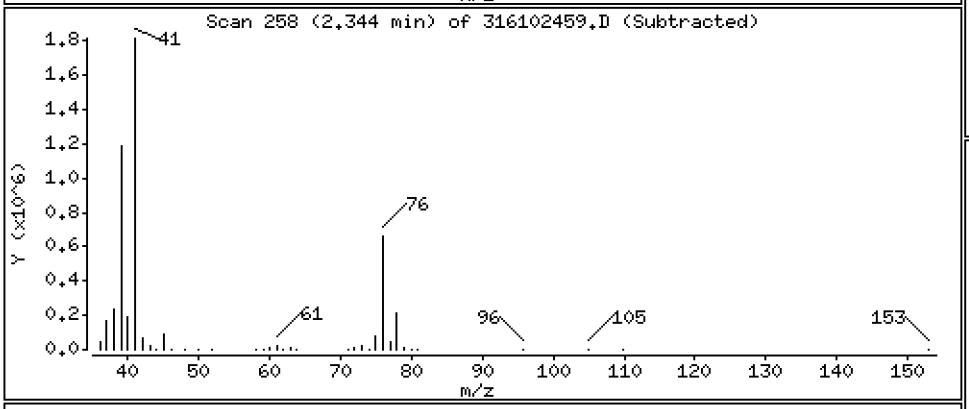
Purge Volume: 5.0 Operator: CJG

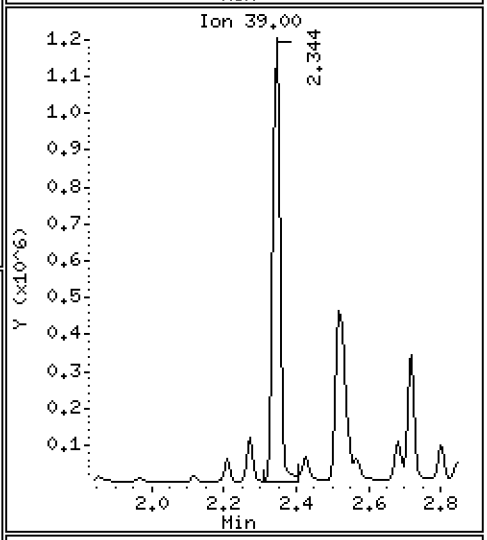
Column phase: DB-VRX Column diameter: 0.25

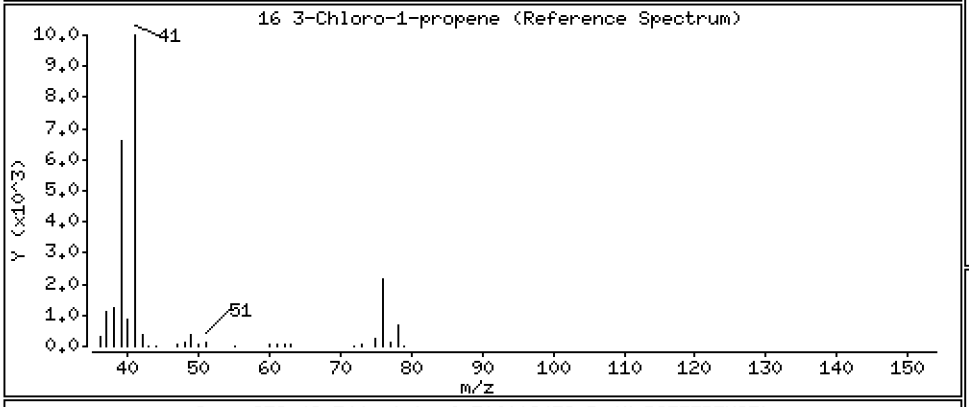
16 3-Chloro-1-propene Concentration: 199.640 ug/L

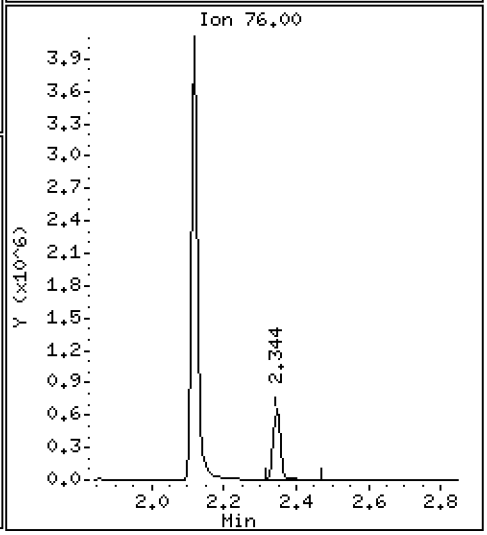


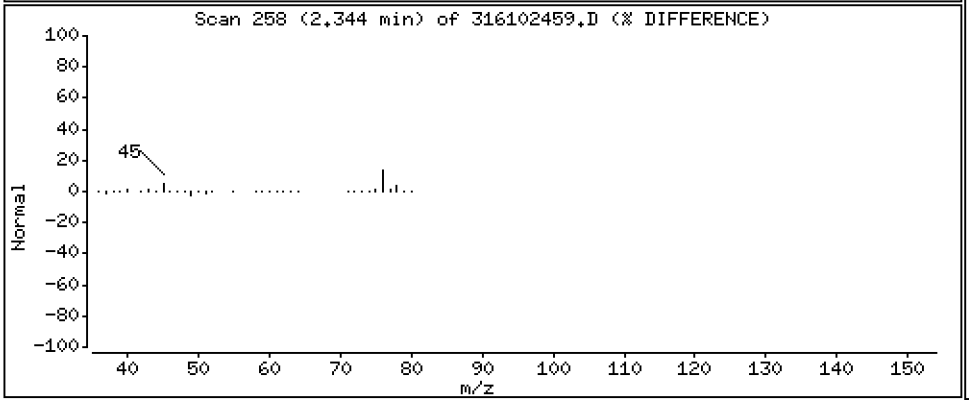












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 25

Date : 25-OCT-2016 01:36

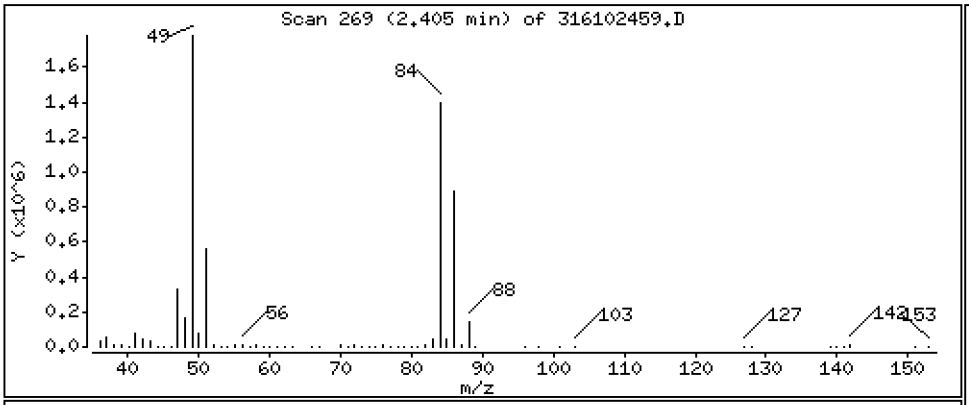
Client ID: Instrument: ms03.i

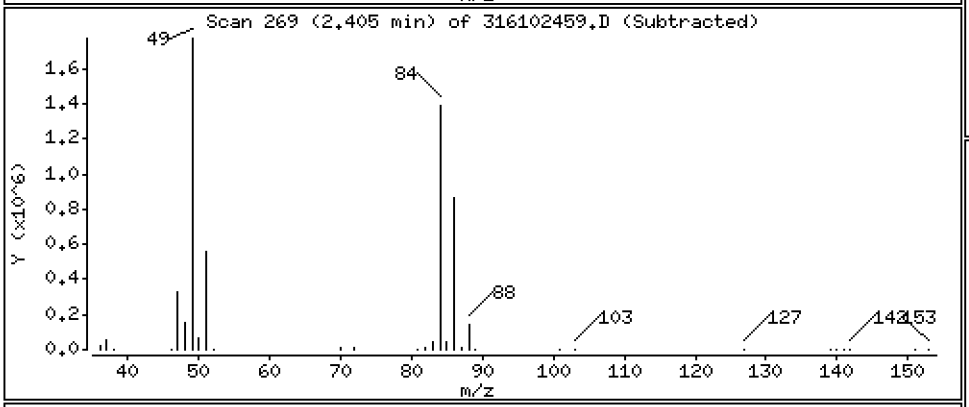
Sample Info: 1239;;1;1;6;;;

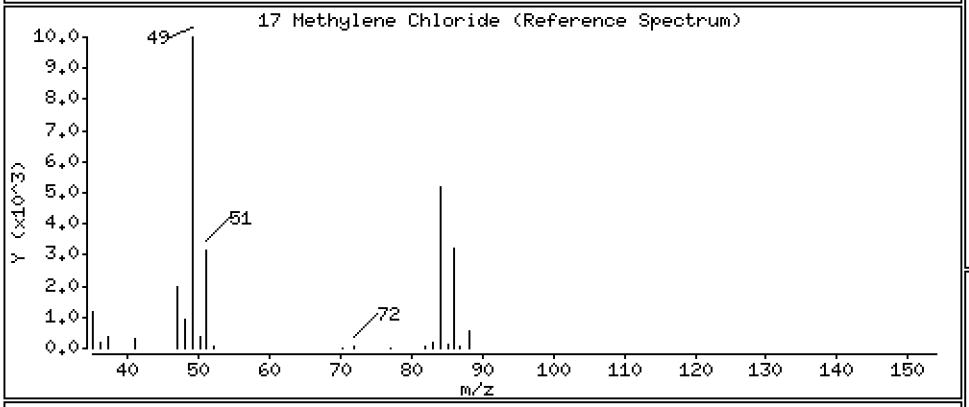
Purge Volume: 5.0 Operator: CJG

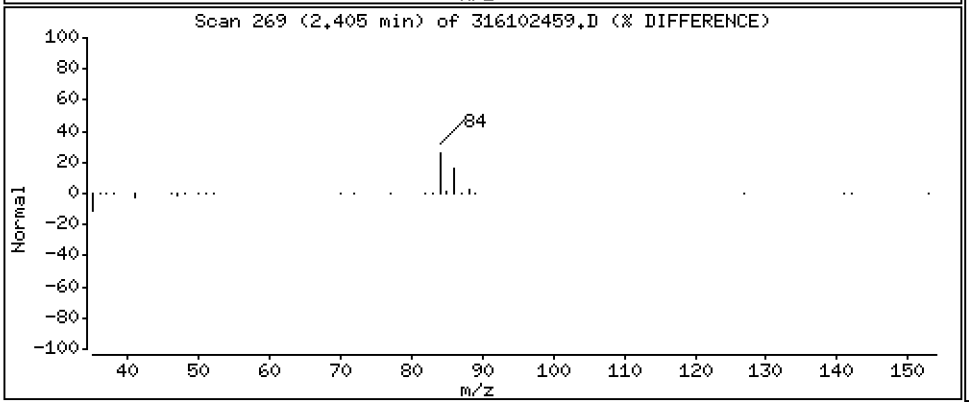
Column phase: DB-VRX Column diameter: 0.25

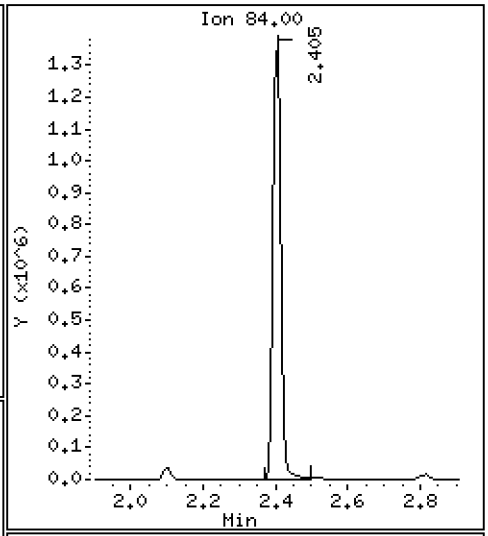
17 Methylene Chloride Concentration: 199.993 ug/L

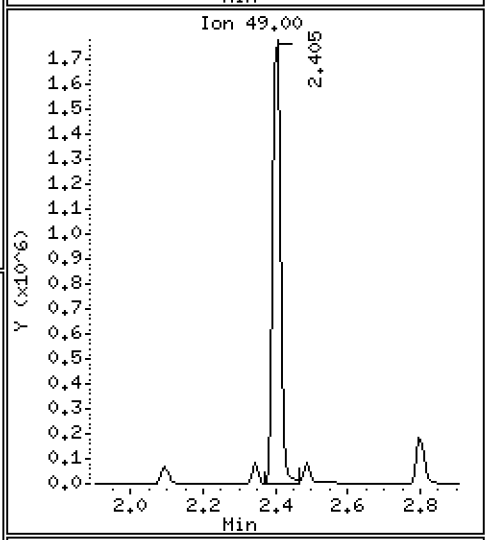


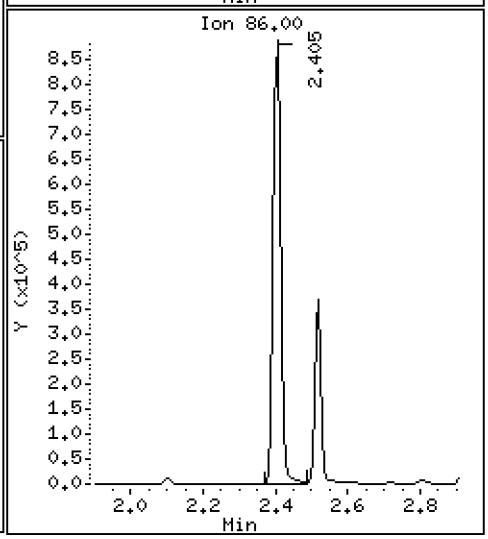












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 26

Date : 25-OCT-2016 01:36

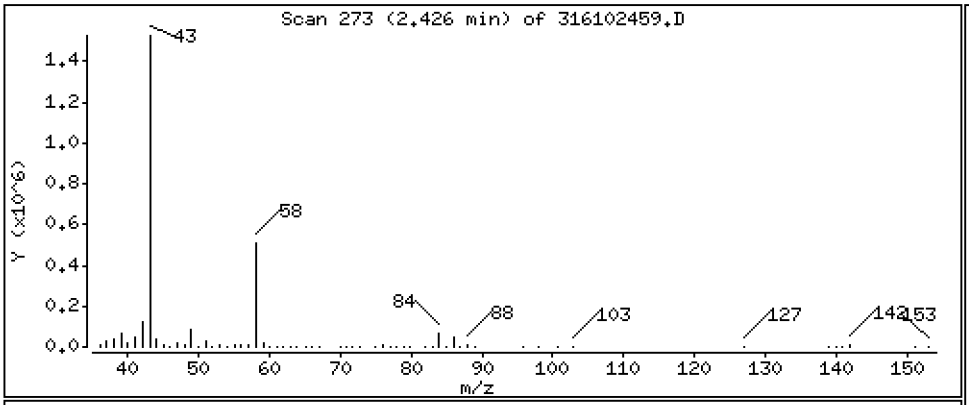
Client ID: Instrument: ms03.i

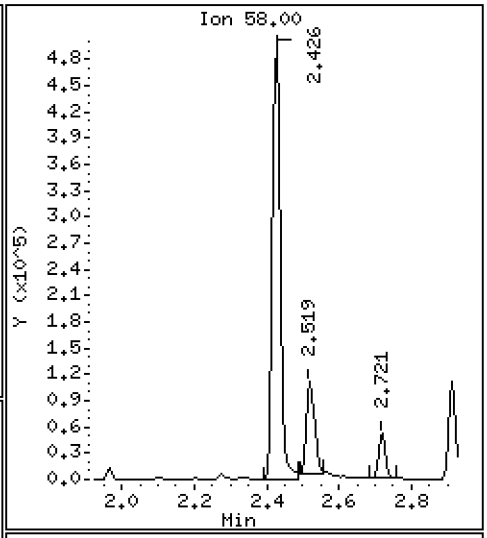
Sample Info: 1239;;1;1;6;;;

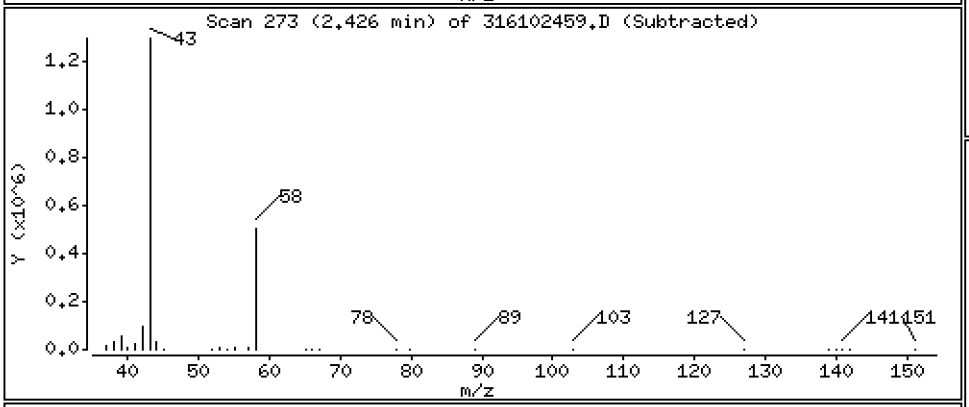
Purge Volume: 5.0 Operator: CJG

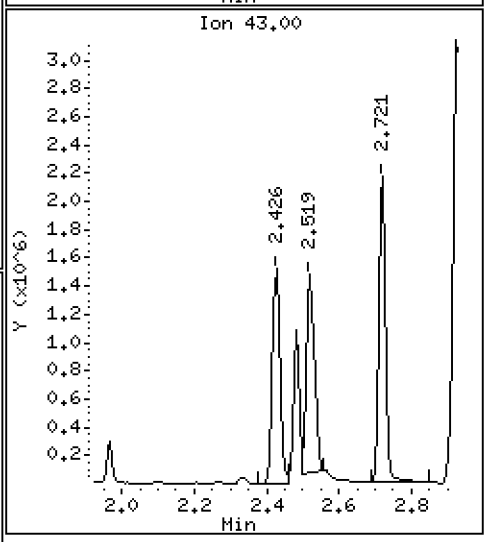
Column phase: DB-VRX Column diameter: 0.25

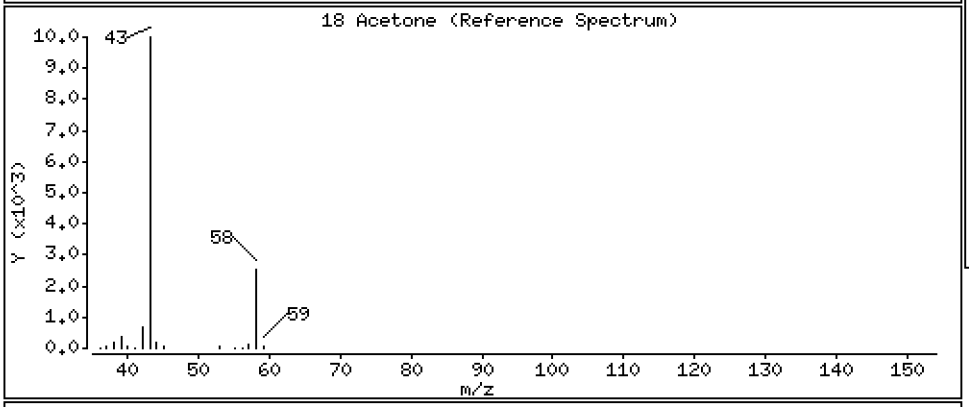
18 Acetone Concentration: 1001.16 ug/L

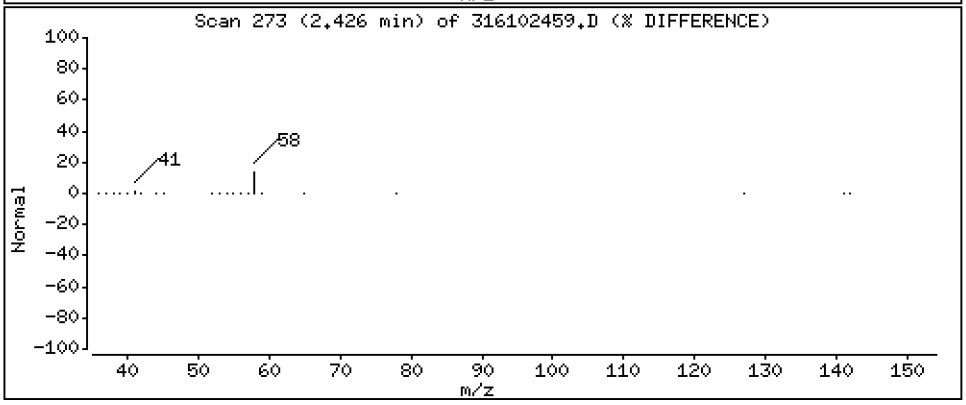












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 27

Date : 25-OCT-2016 01:36

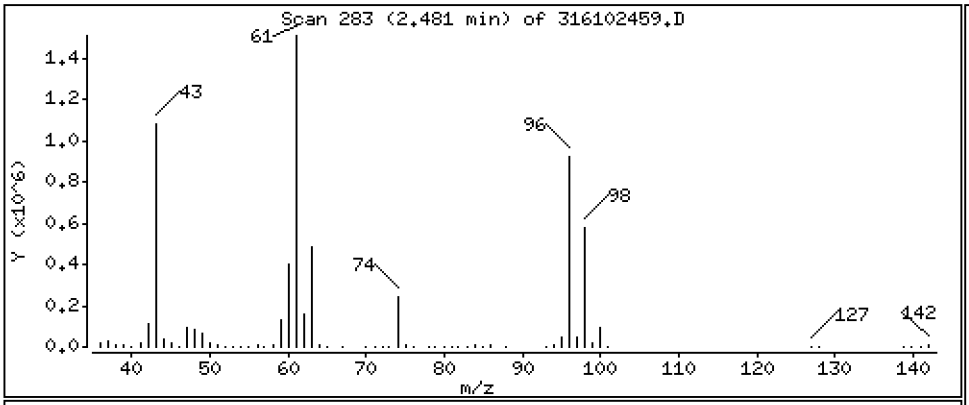
Client ID: Instrument: ms03.i

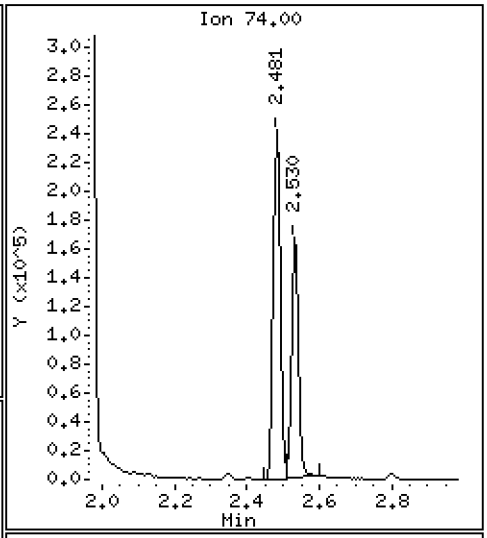
Sample Info: 1239;;1;1;6;;;

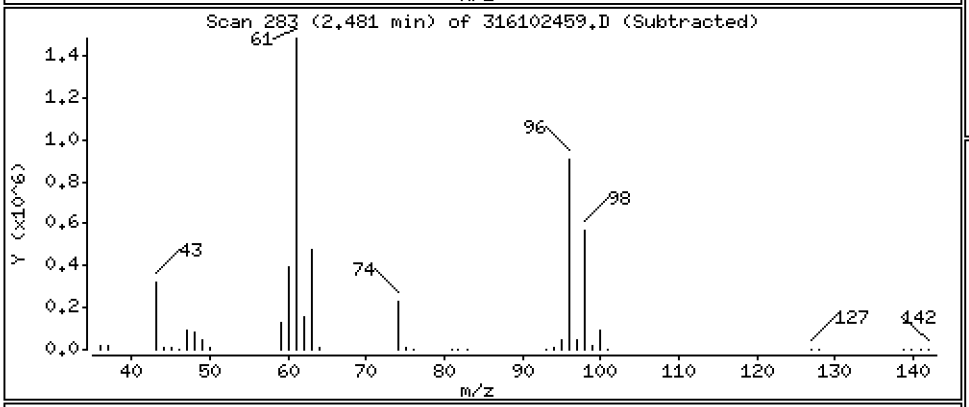
Purge Volume: 5.0 Operator: CJG

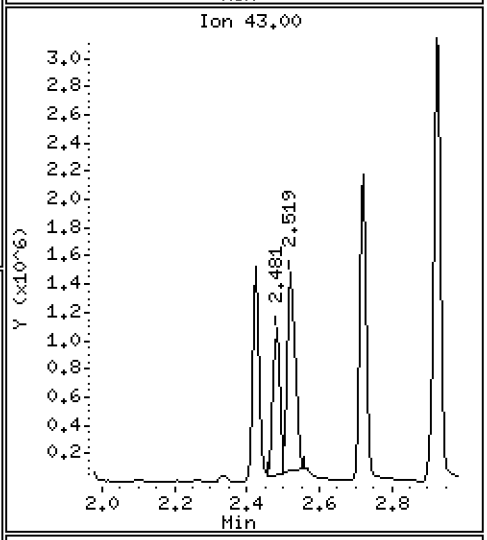
Column phase: DB-VRX Column diameter: 0.25

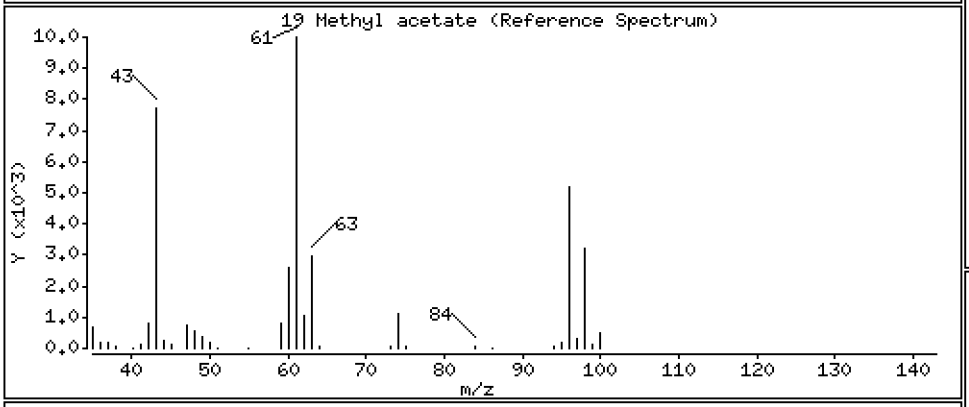
19 Methyl acetate Concentration: 200.164 ug/L

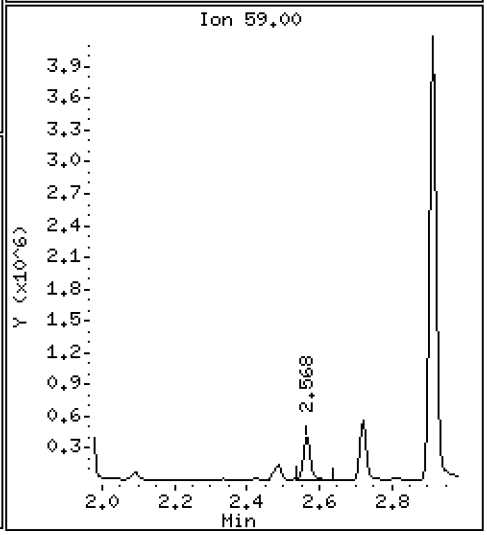


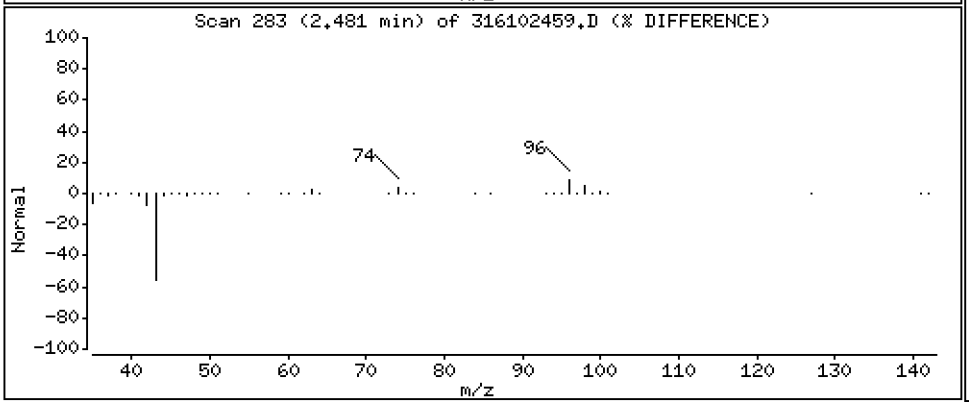












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 28

Date : 25-OCT-2016 01:36

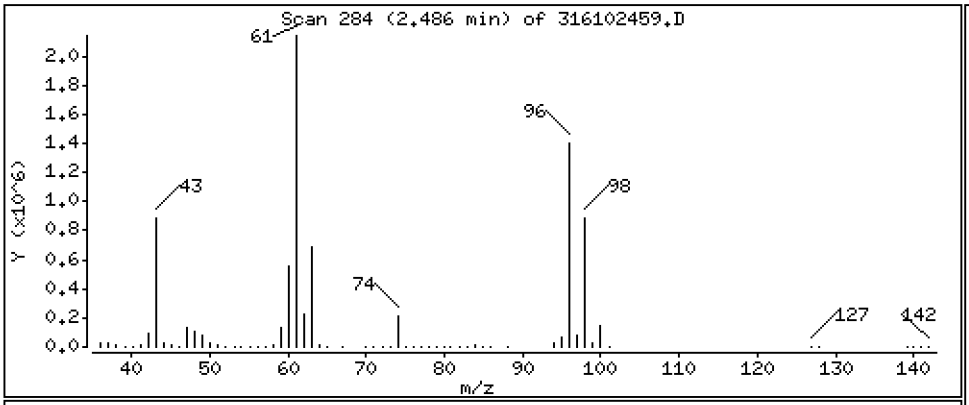
Client ID: Instrument: ms03.i

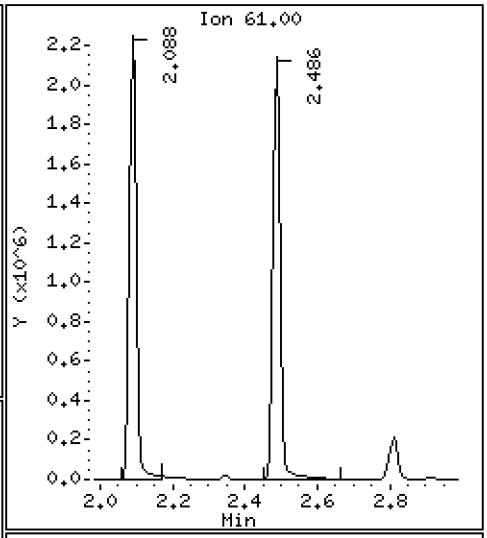
Sample Info: 1239;;1;1;6;;;

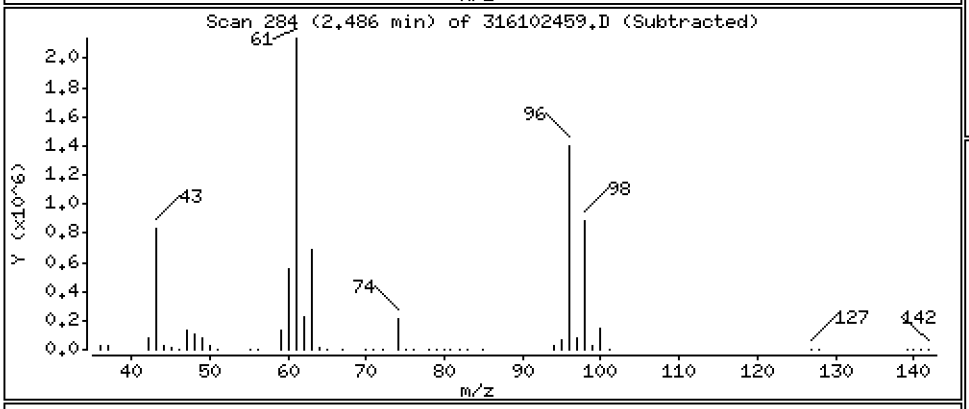
Purge Volume: 5.0 Operator: CJG

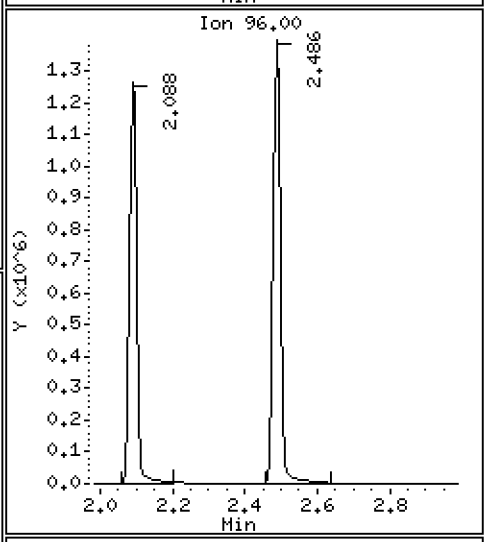
Column phase: DB-VRX Column diameter: 0.25

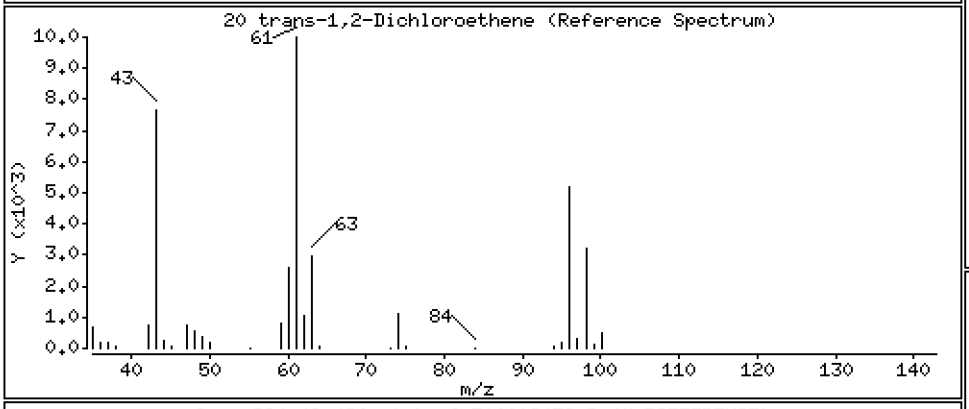
20 trans-1,2-Dichloroethene Concentration: 199.940 ug/L

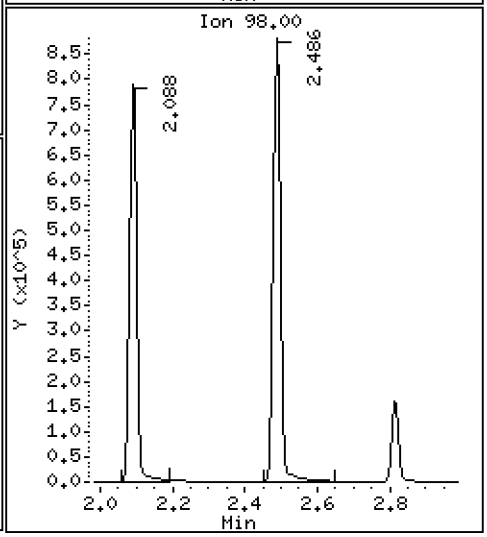


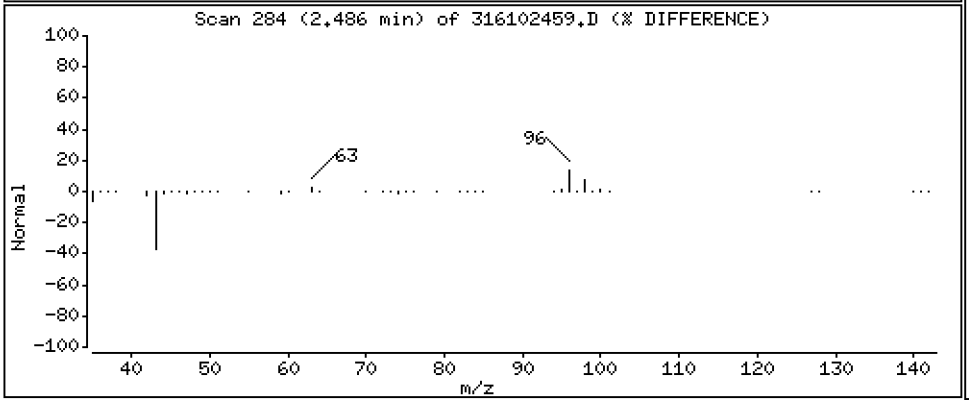












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 29

Date : 25-OCT-2016 01:36

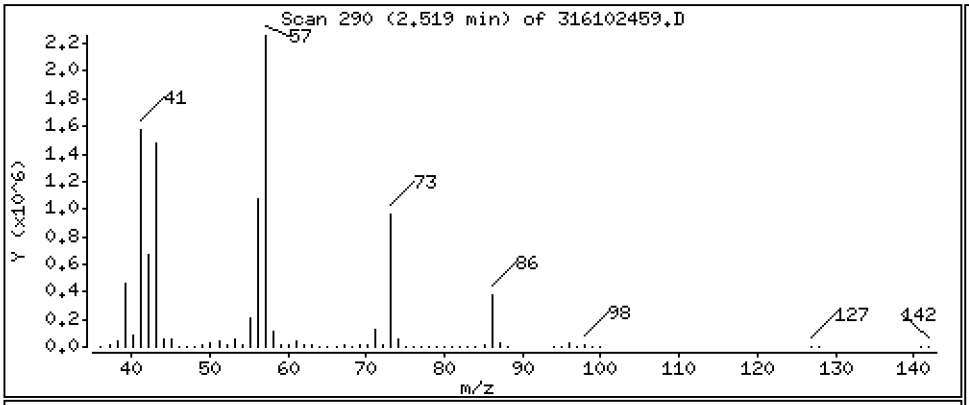
Client ID: Instrument: ms03.i

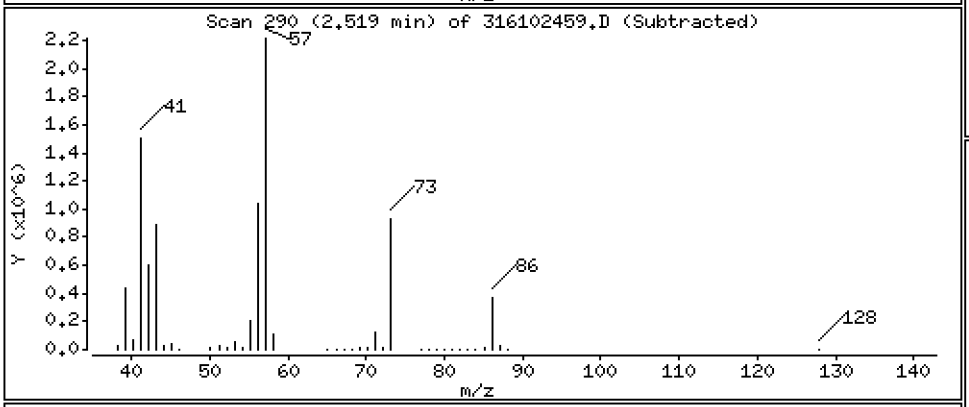
Sample Info: 1239;;1;1;6;;;

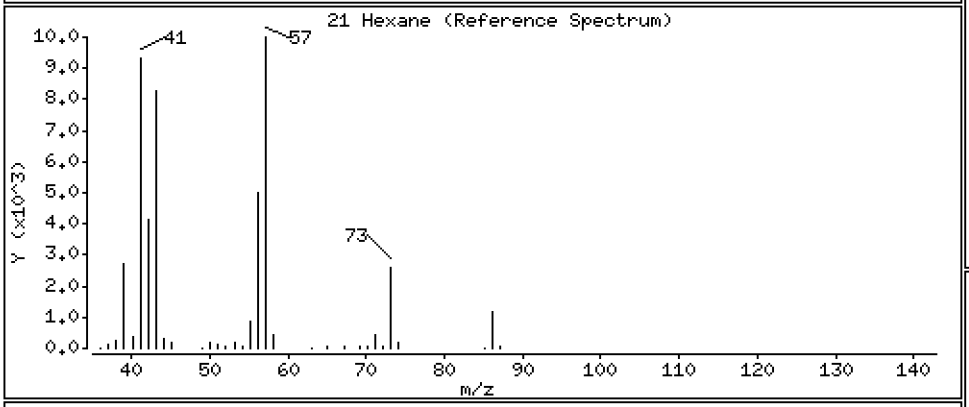
Purge Volume: 5.0 Operator: CJG

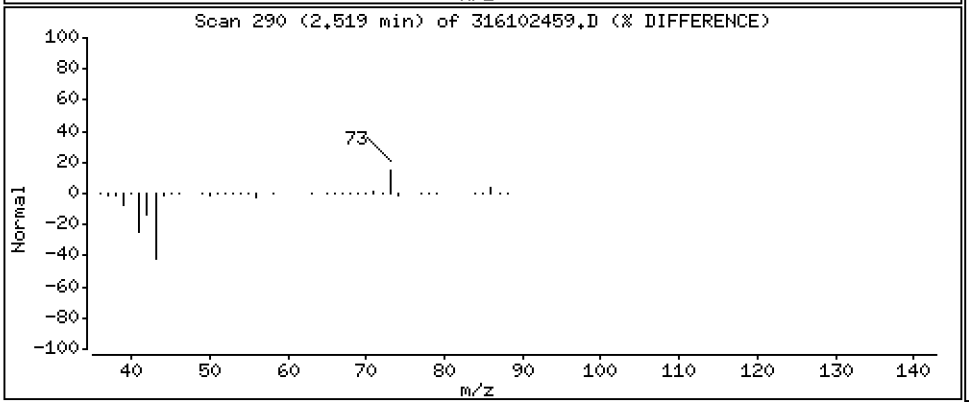
Column phase: DB-VRX Column diameter: 0.25

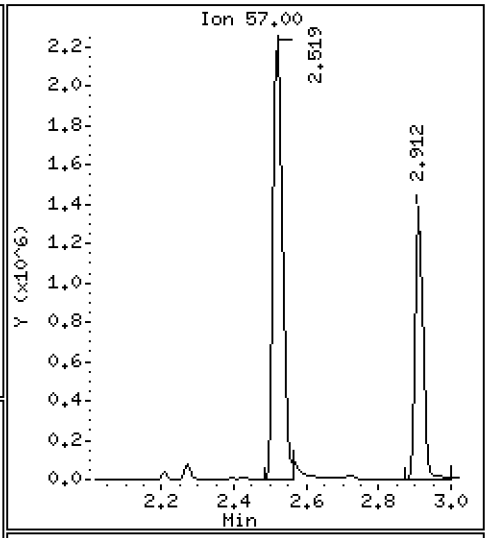
21 Hexane Concentration: 199.959 ug/L

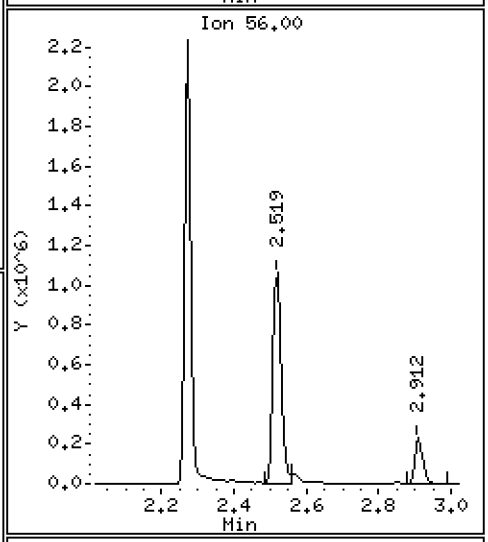


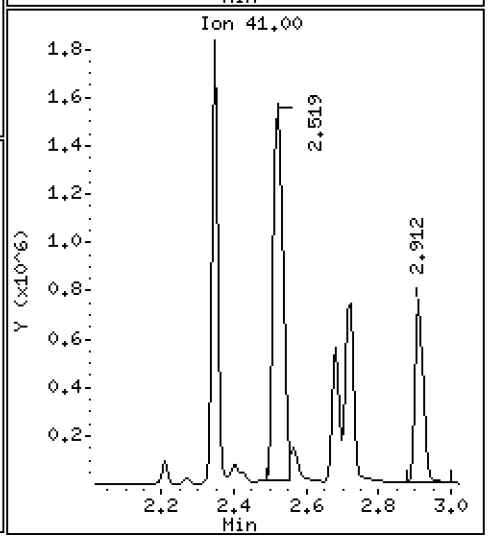












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 30

Date : 25-OCT-2016 01:36

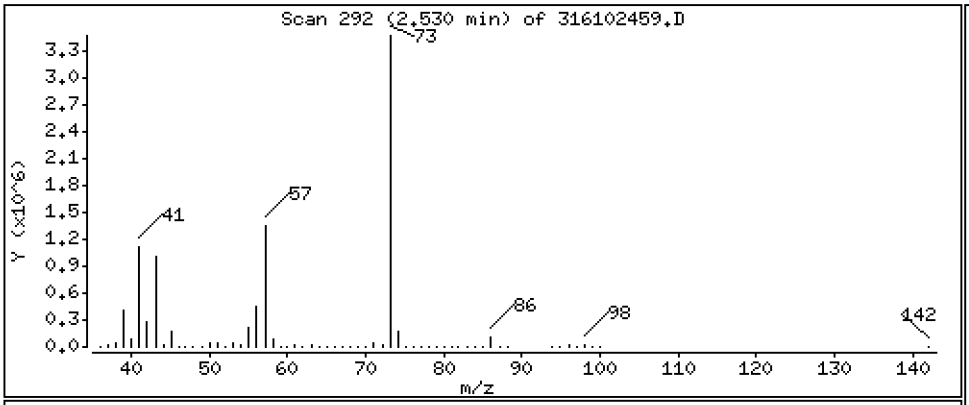
Client ID: Instrument: ms03.i

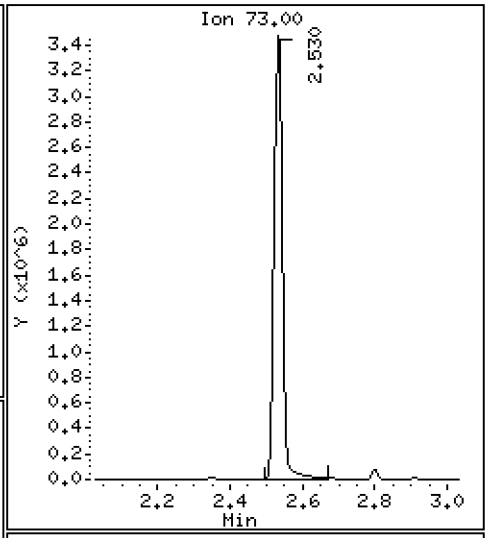
Sample Info: 1239;;1;1;6;;;

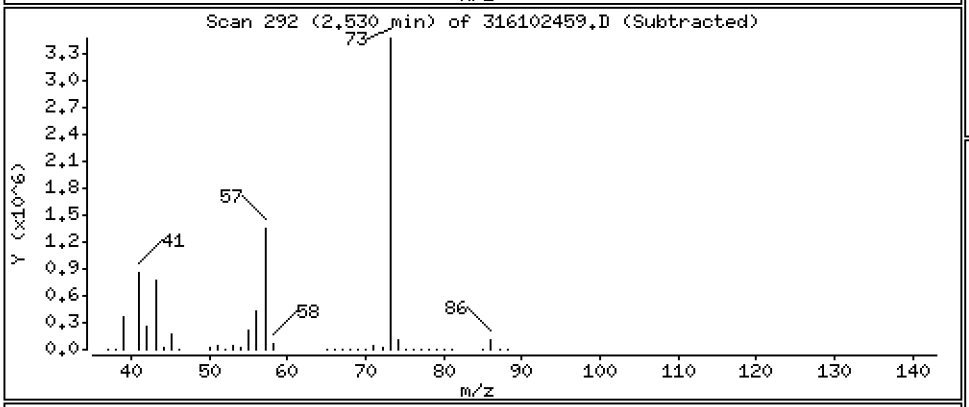
Purge Volume: 5.0 Operator: CJG

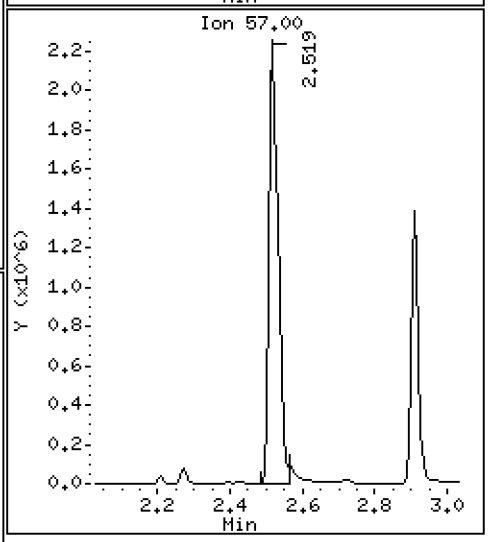
Column phase: DB-VRX Column diameter: 0.25

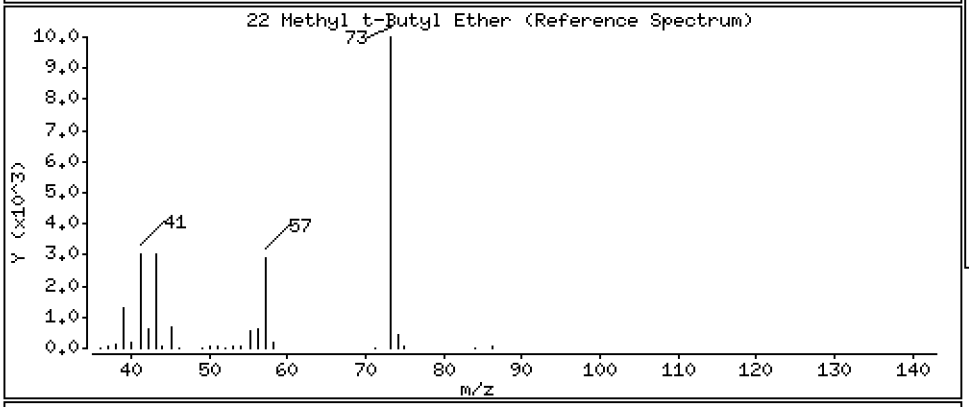
22 Methyl t-Butyl Ether Concentration: 199.972 ug/L

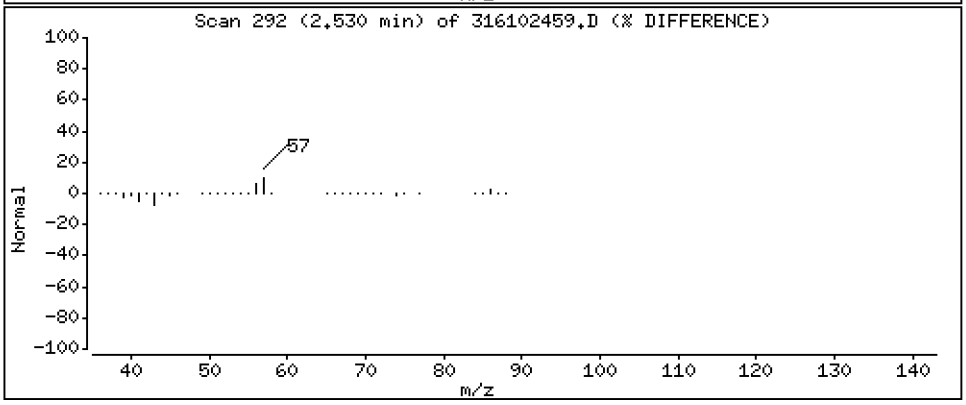












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 31

Date : 25-OCT-2016 01:36

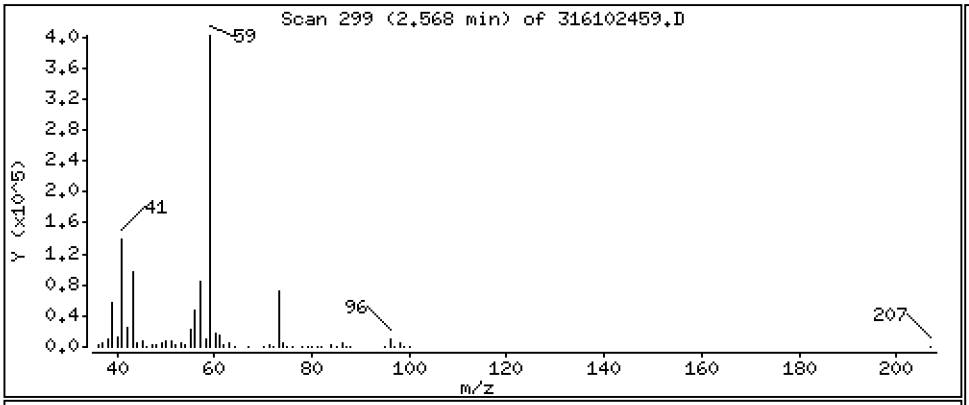
Client ID: Instrument: ms03.i

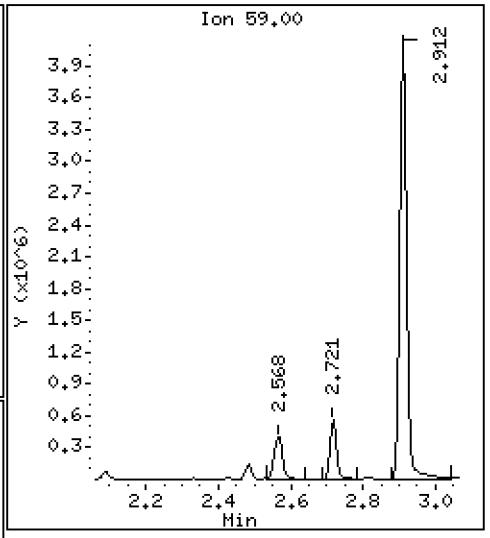
Sample Info: 1239;;1;1;6;;;

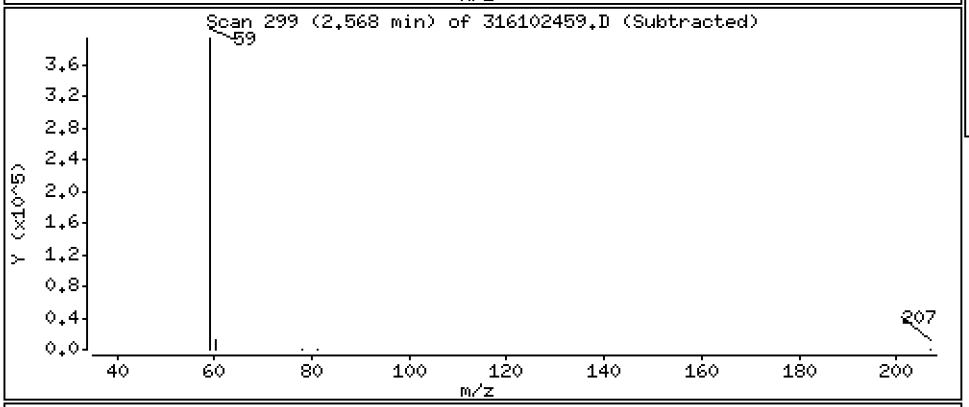
Purge Volume: 5.0 Operator: CJG

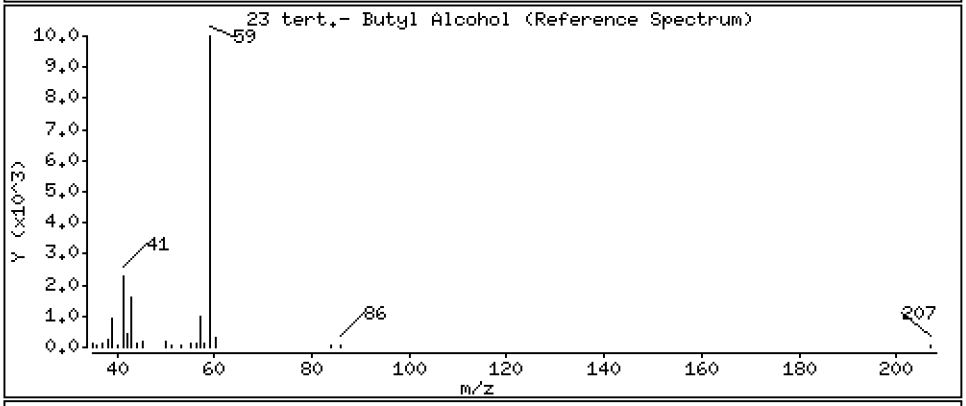
Column phase: DB-VRX Column diameter: 0.25

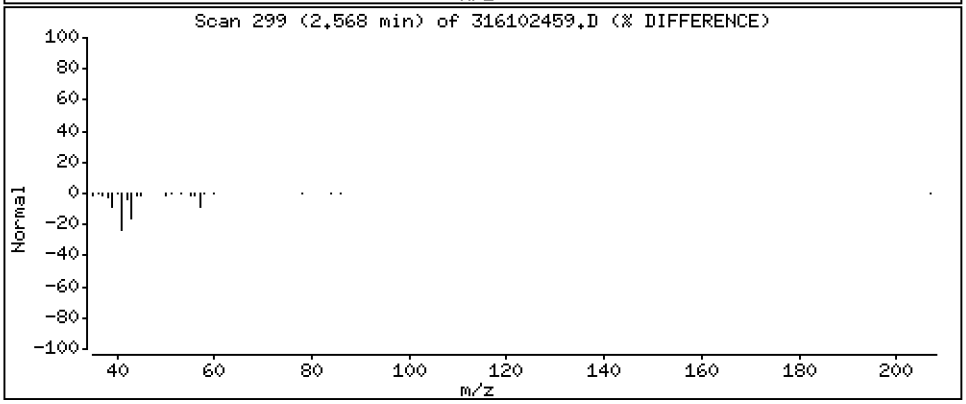
23 tert.- Butyl Alcohol Concentration: 999.175 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 32

Date : 25-OCT-2016 01:36

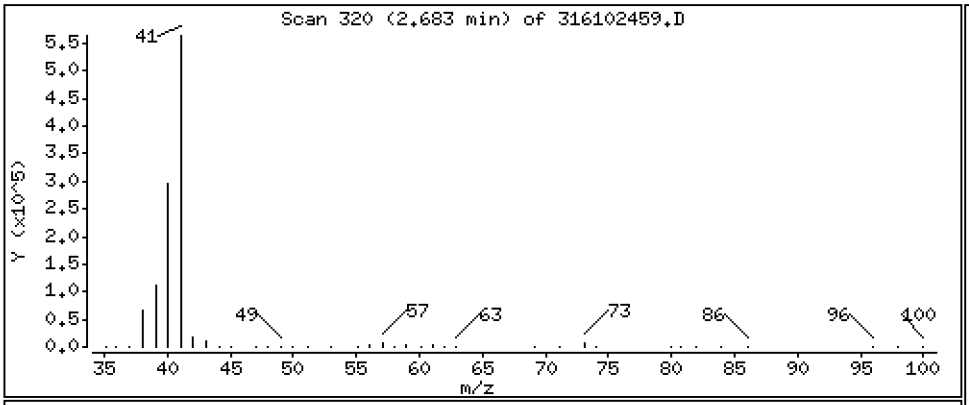
Client ID: Instrument: ms03.i

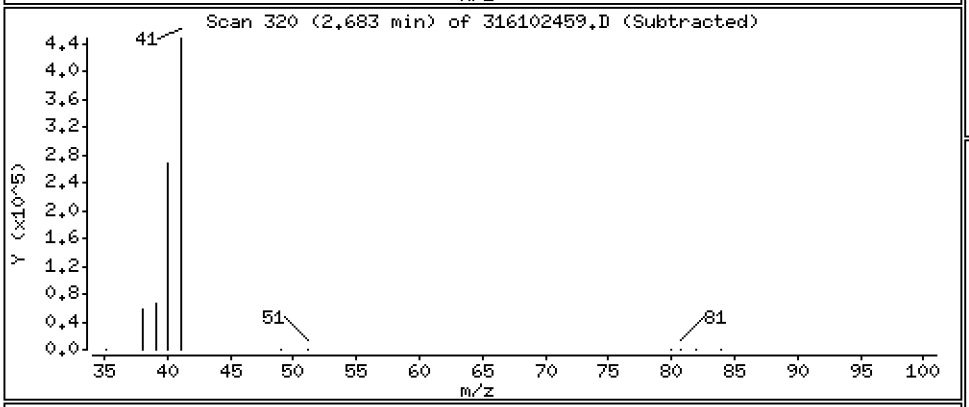
Sample Info: 1239;;1;1;6;;;

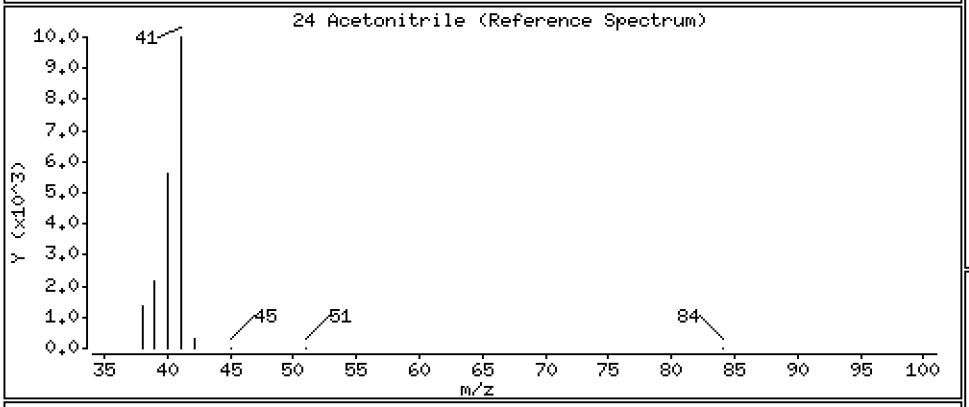
Purge Volume: 5.0 Operator: CJG

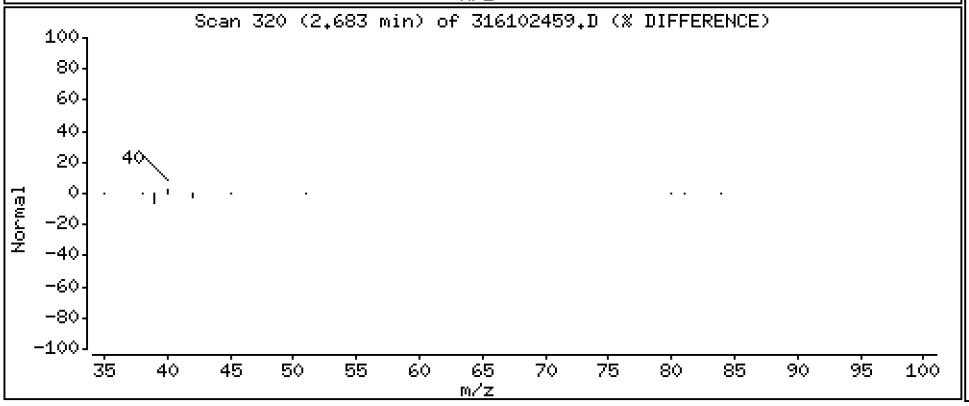
Column phase: DB-VRX Column diameter: 0.25

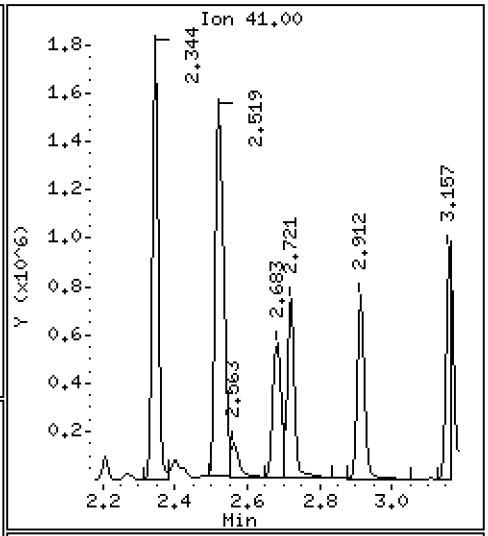
24 Acetonitrile Concentration: 1000.81 ug/L

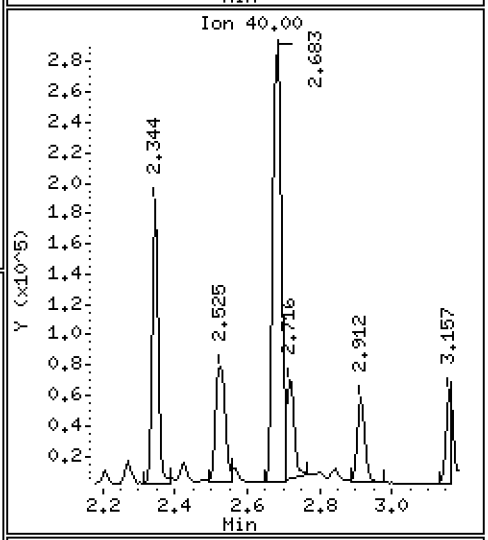


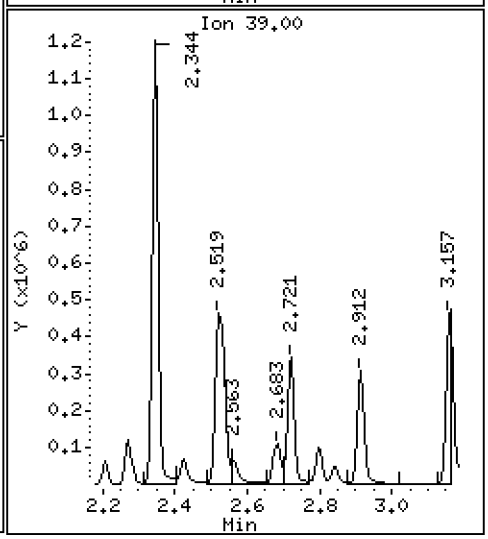












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 33

Date : 25-OCT-2016 01:36

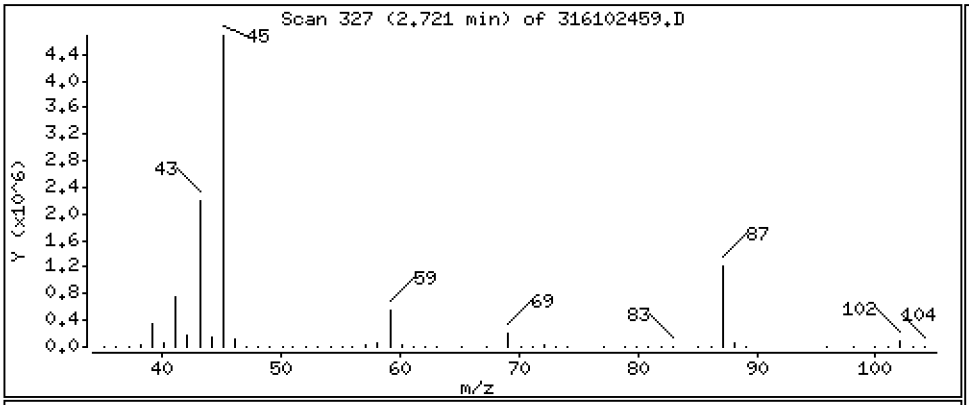
Client ID: Instrument: ms03.i

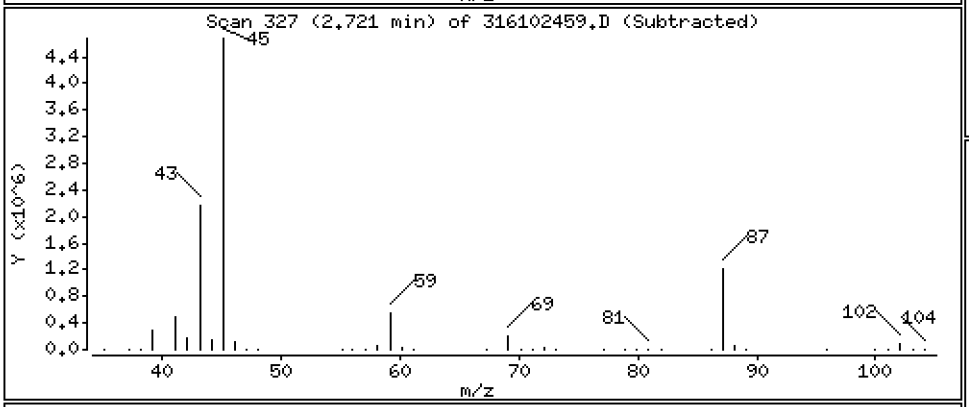
Sample Info: 1239;;1;1;6;;;

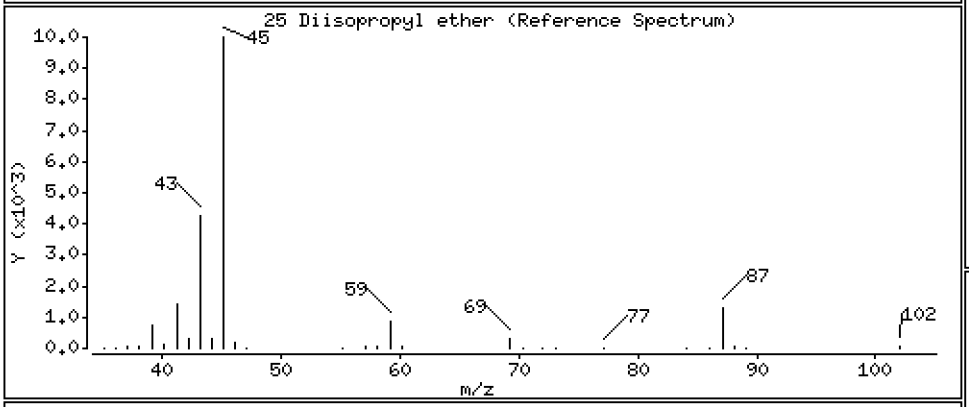
Purge Volume: 5.0 Operator: CJG

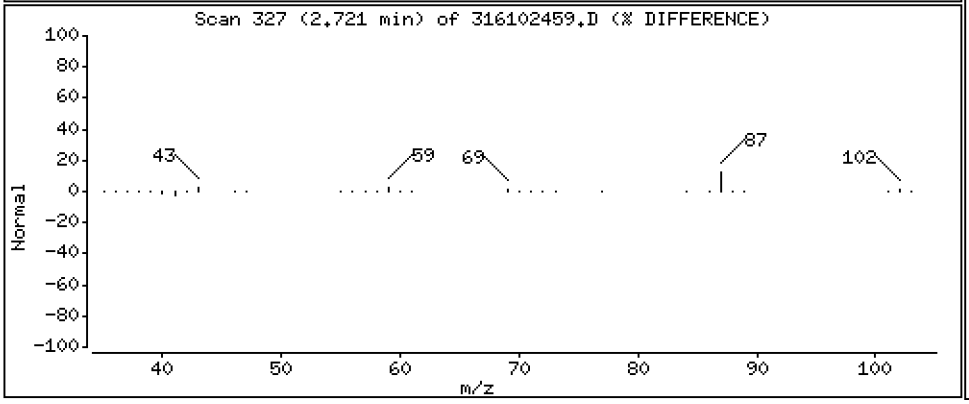
Column phase: DB-VRX Column diameter: 0.25

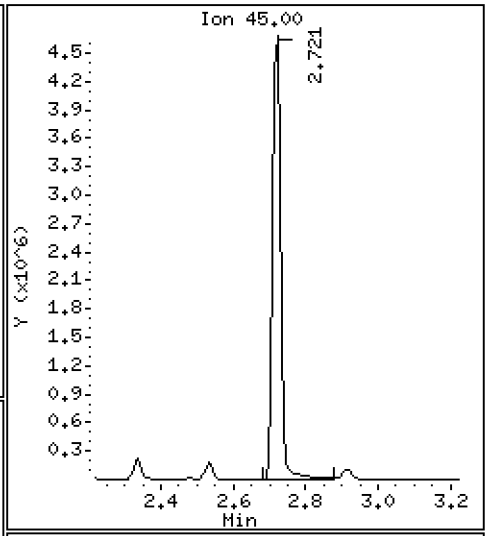
25 Diisopropyl ether Concentration: 199.890 ug/L

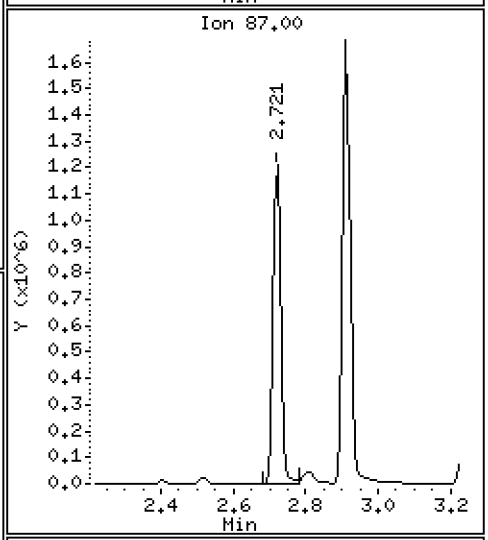


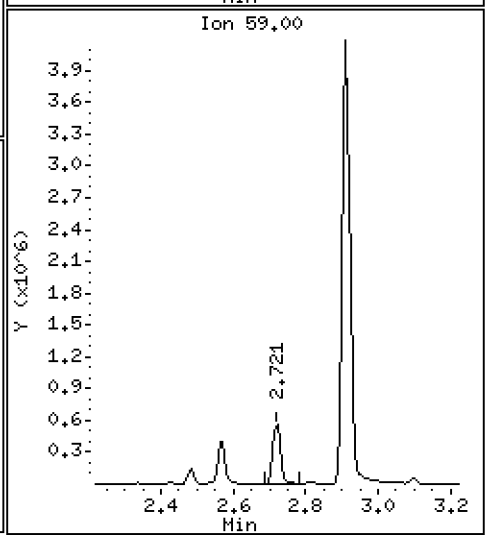












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 34

Date : 25-OCT-2016 01:36

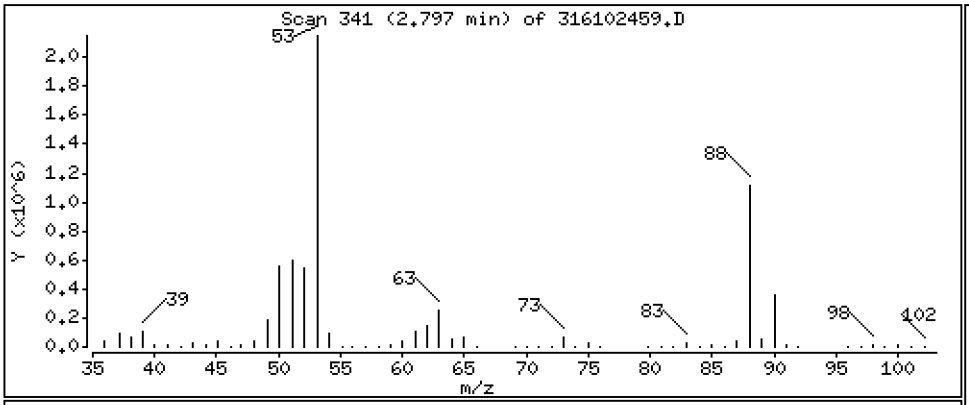
Client ID: Instrument: ms03.i

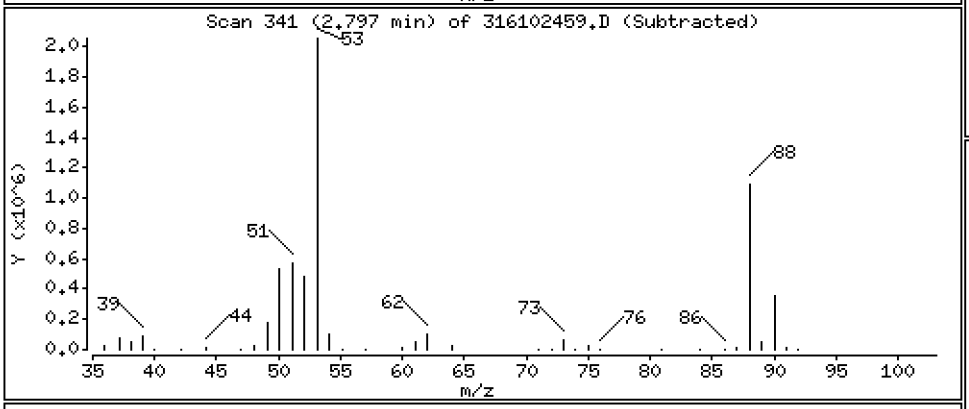
Sample Info: 1239;;1;1;6;;;

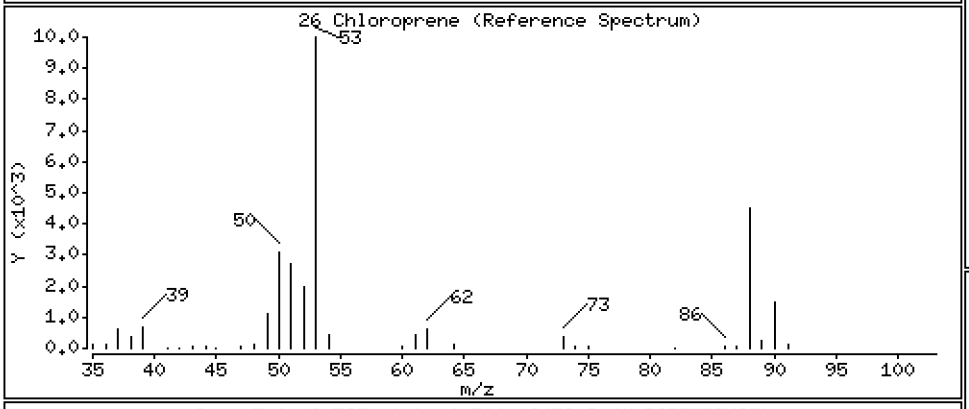
Purge Volume: 5.0 Operator: CJG

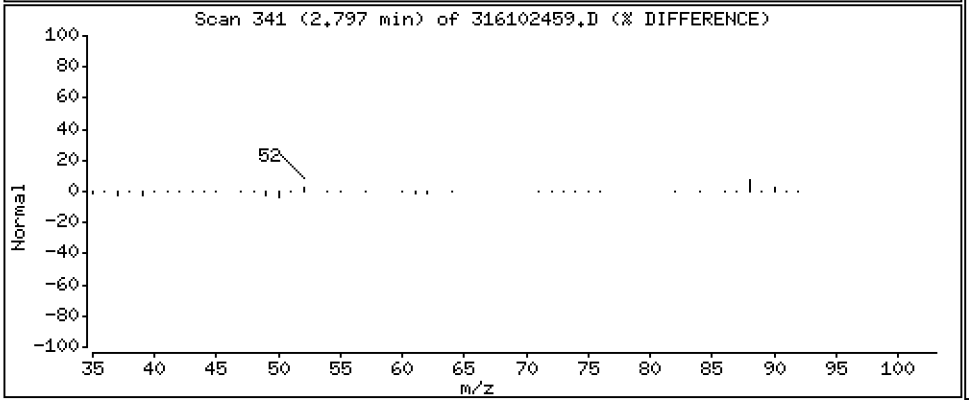
Column phase: DB-VRX Column diameter: 0.25

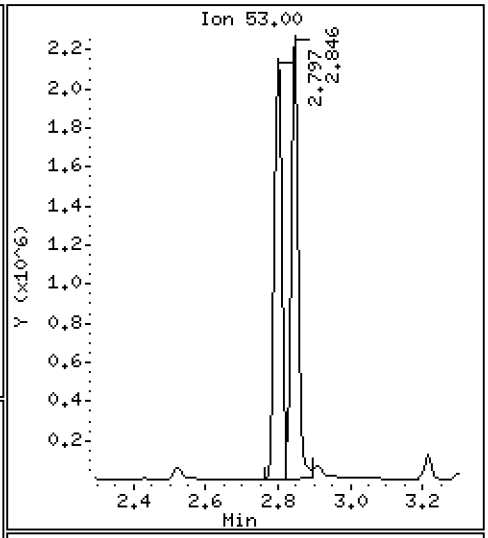
26 Chloroprene Concentration: 200.016 ug/L

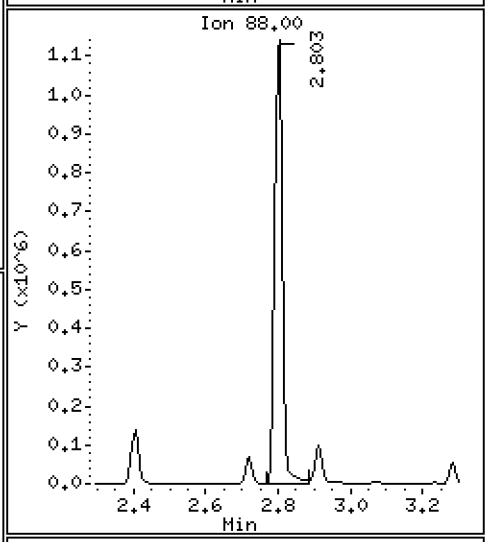


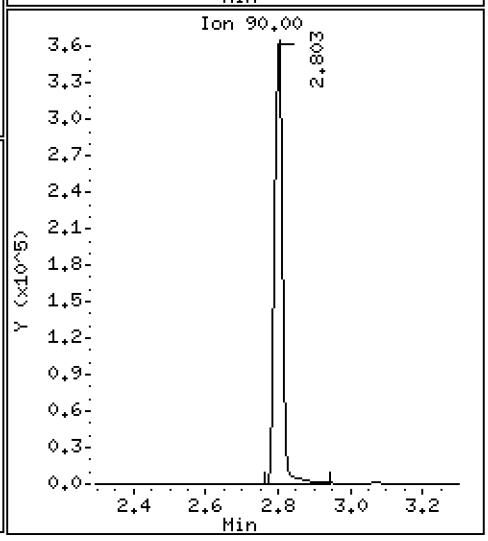












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 35

Date : 25-OCT-2016 01:36

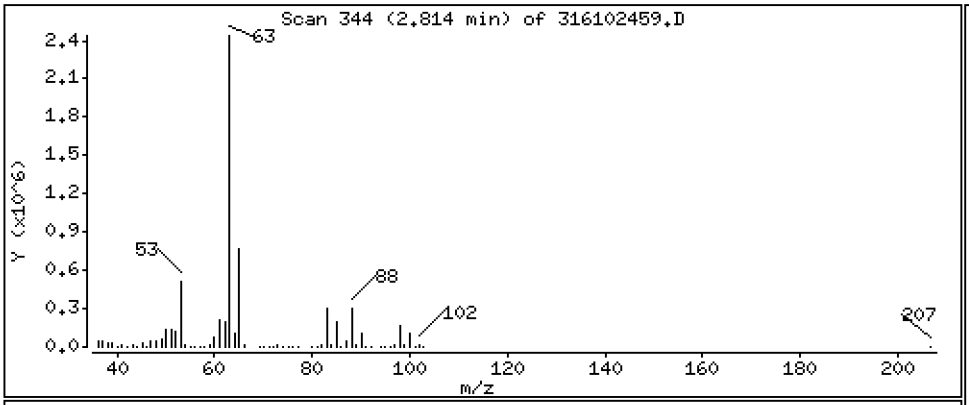
Client ID: Instrument: ms03.i

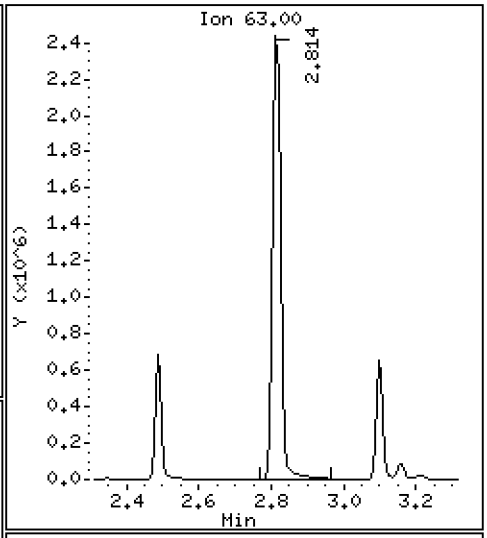
Sample Info: 1239;;1;1;6;;;

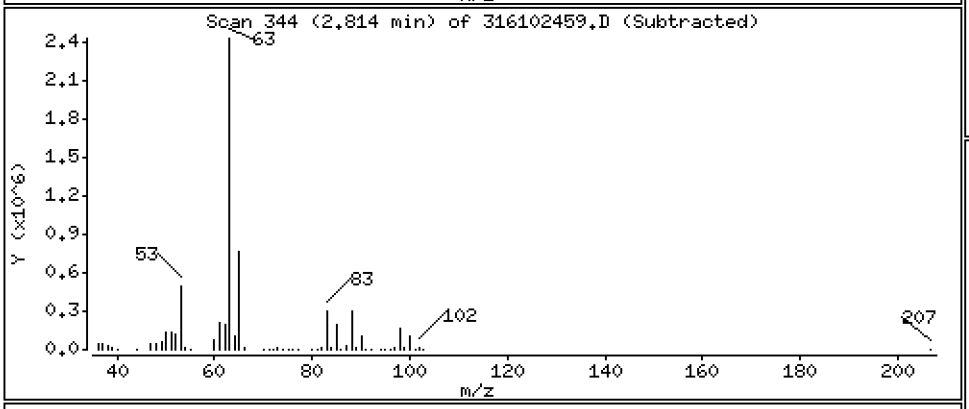
Purge Volume: 5.0 Operator: CJG

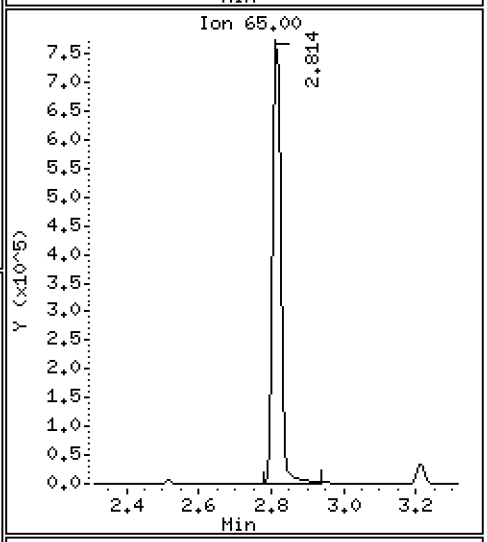
Column phase: DB-VRX Column diameter: 0.25

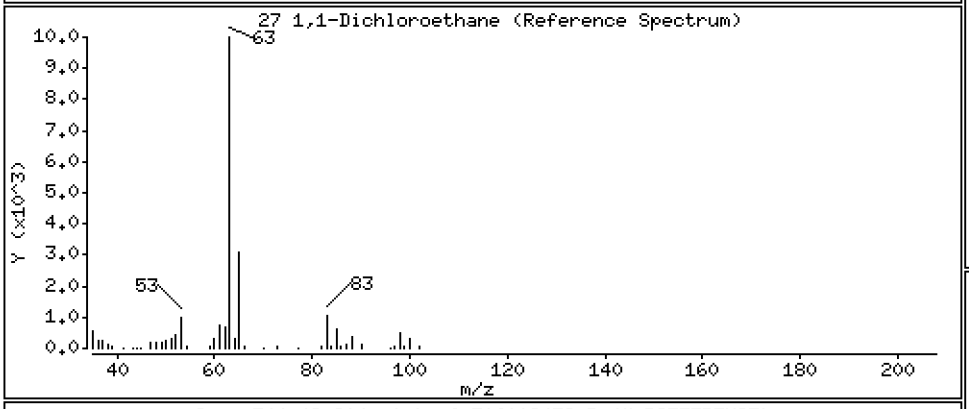
27 1,1-Dichloroethane Concentration: 200.104 ug/L

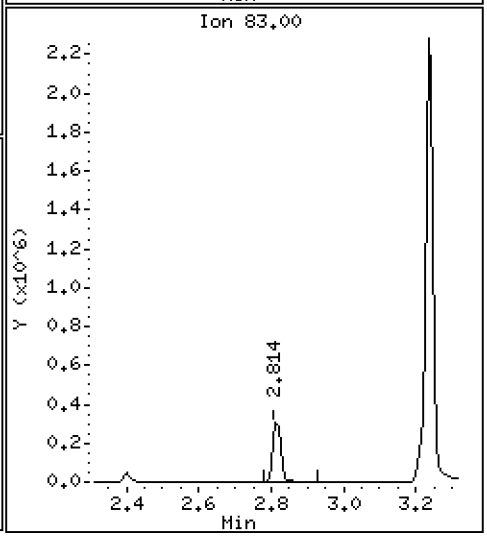


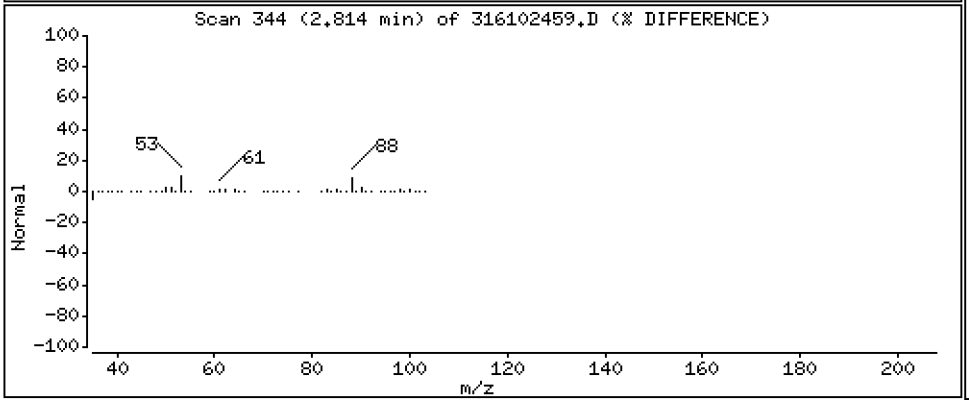












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 36

Date : 25-OCT-2016 01:36

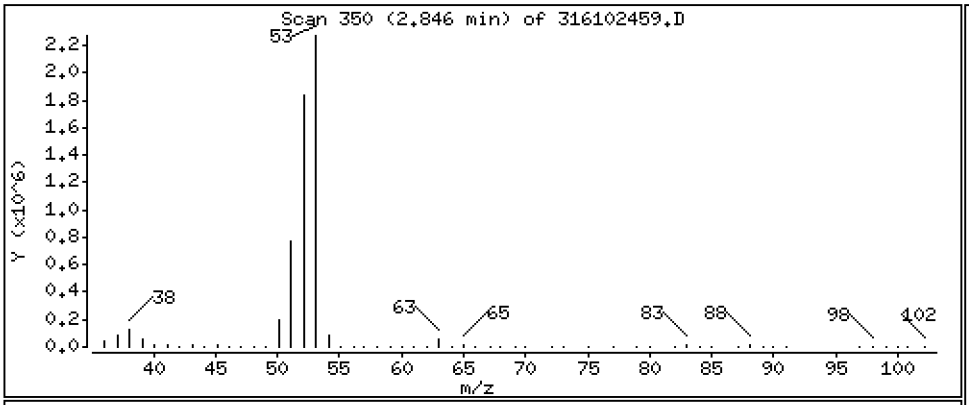
Client ID: Instrument: ms03.i

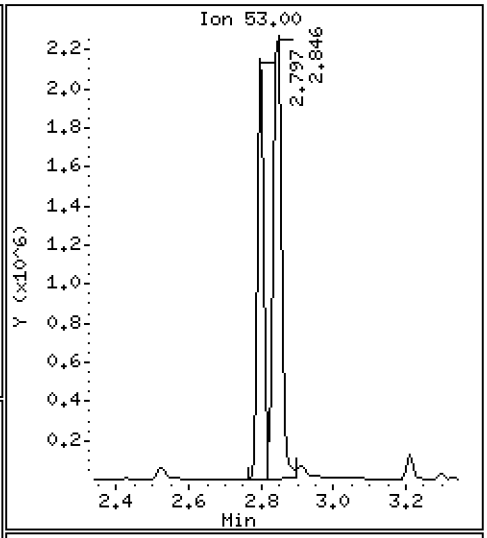
Sample Info: 1239;;1;1;6;;;

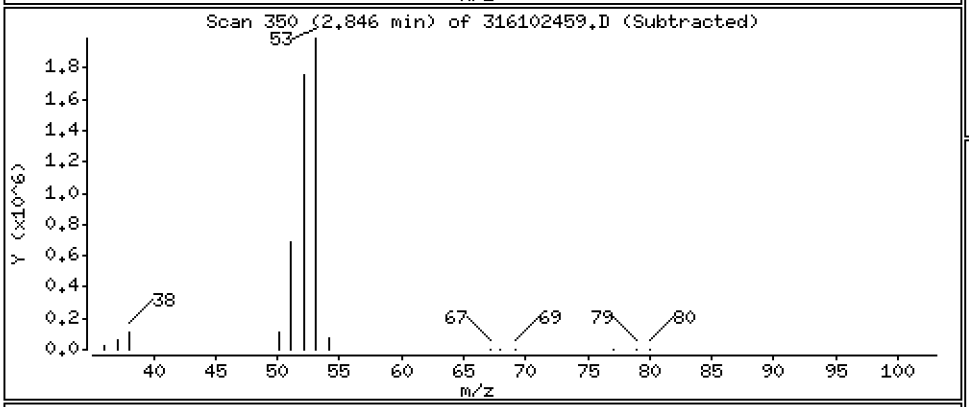
Purge Volume: 5.0 Operator: CJG

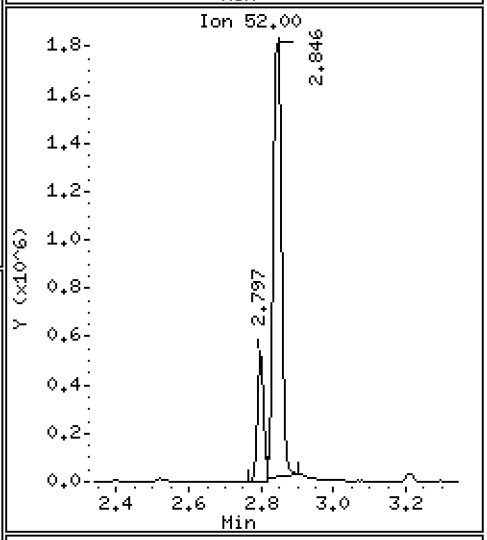
Column phase: DB-VRX Column diameter: 0.25

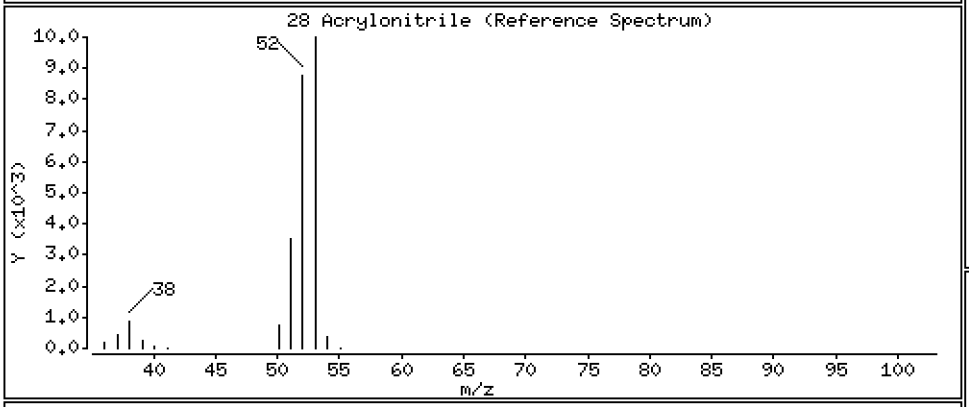
28 Acrylonitrile Concentration: 999.785 ug/L

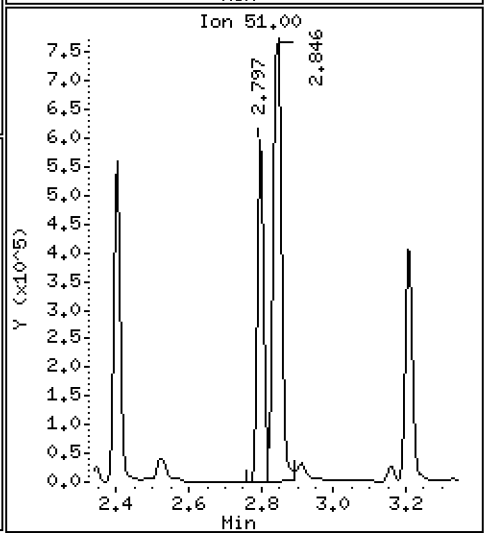


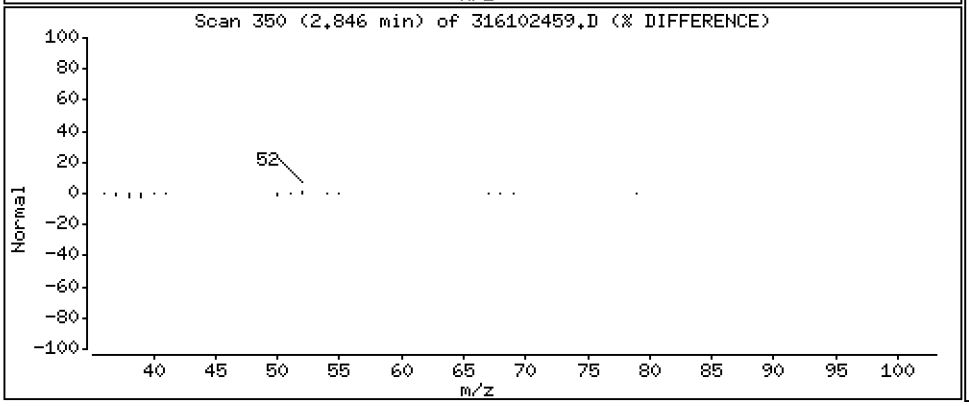












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 37

Date : 25-OCT-2016 01:36

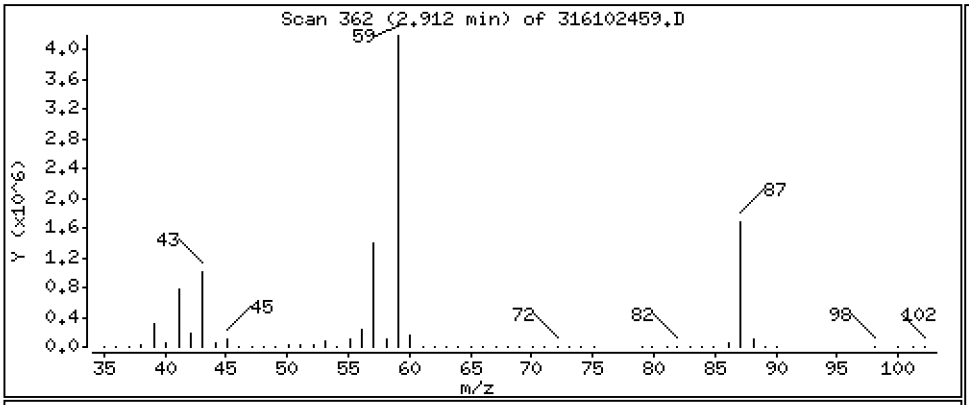
Client ID: Instrument: ms03.i

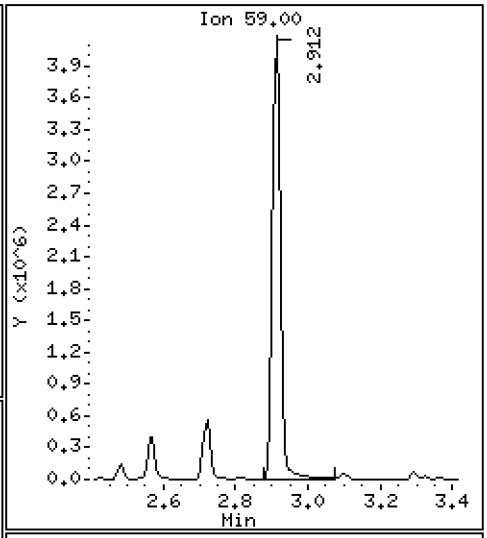
Sample Info: 1239;;1;1;6;;;

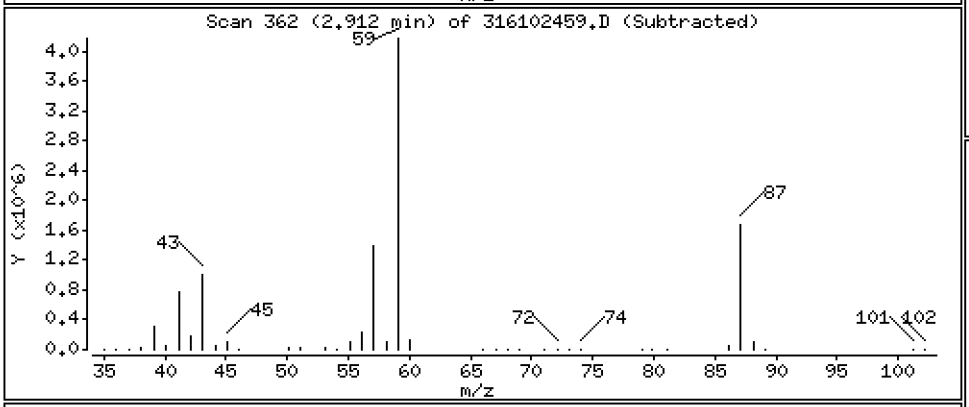
Purge Volume: 5.0 Operator: CJG

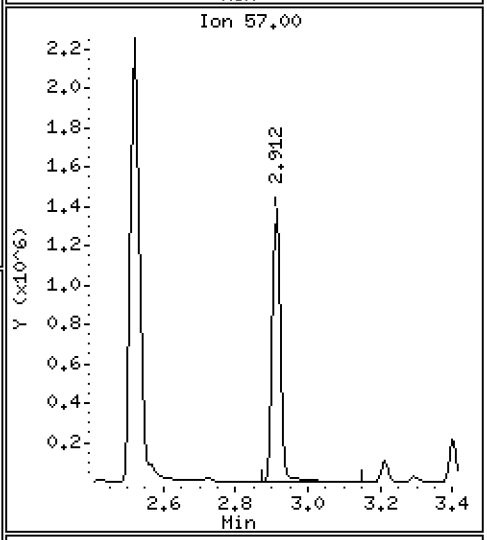
Column phase: DB-VRX Column diameter: 0.25

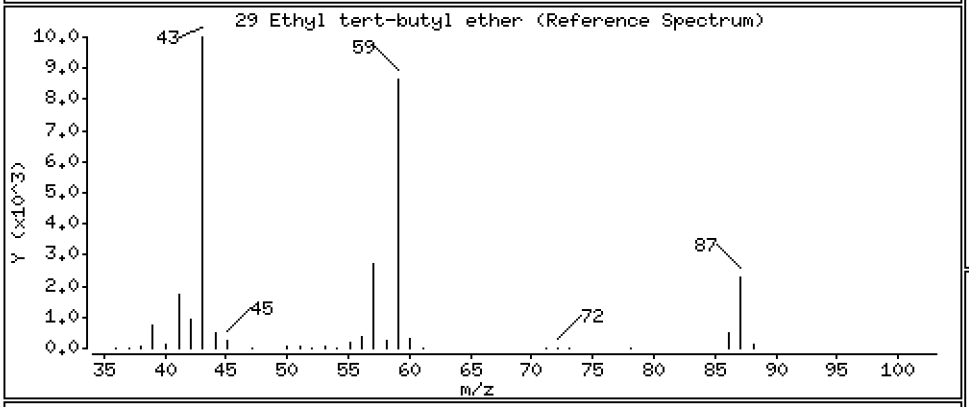
29 Ethyl tert-butyl ether Concentration: 199.829 ug/L

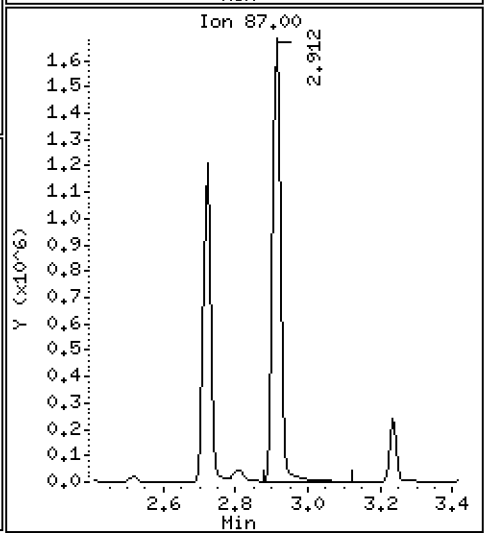


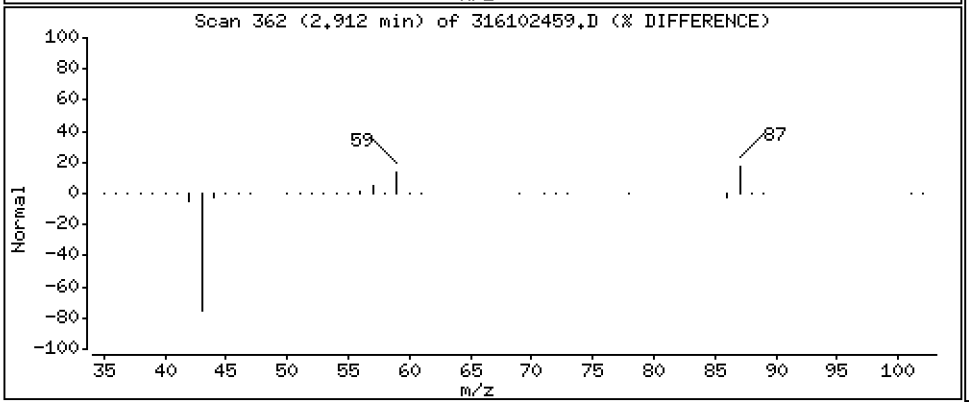












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 38

Date : 25-OCT-2016 01:36

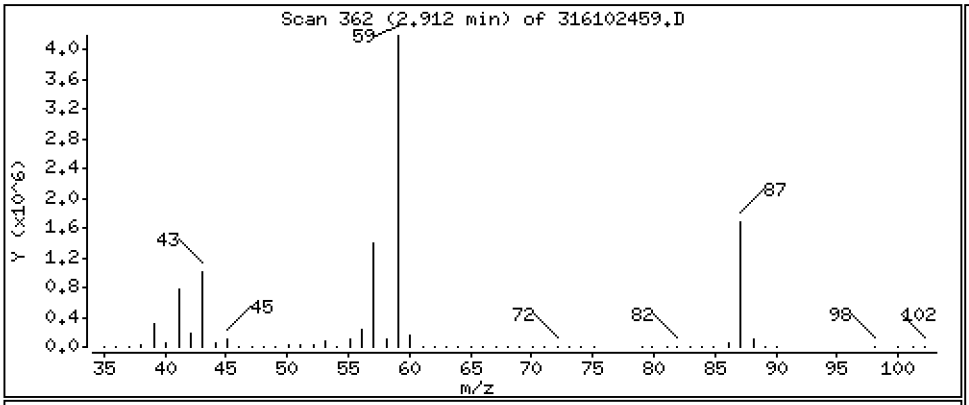
Client ID: Instrument: ms03.i

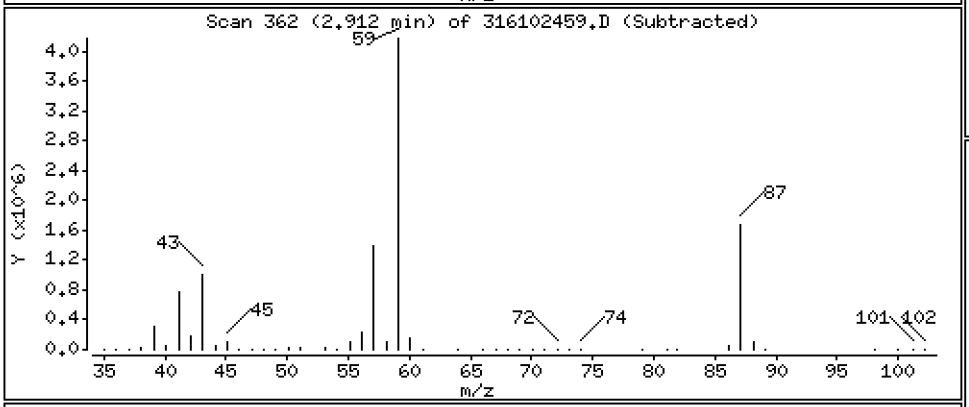
Sample Info: 1239;;1;1;6;;;

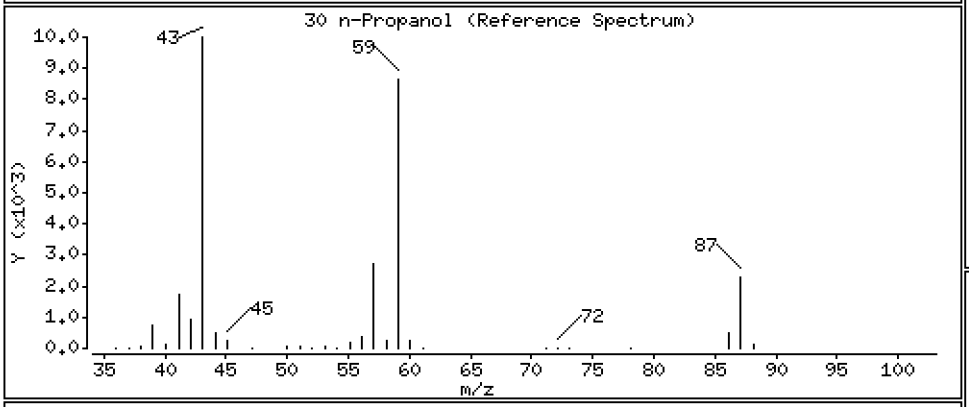
Purge Volume: 5.0 Operator: CJG

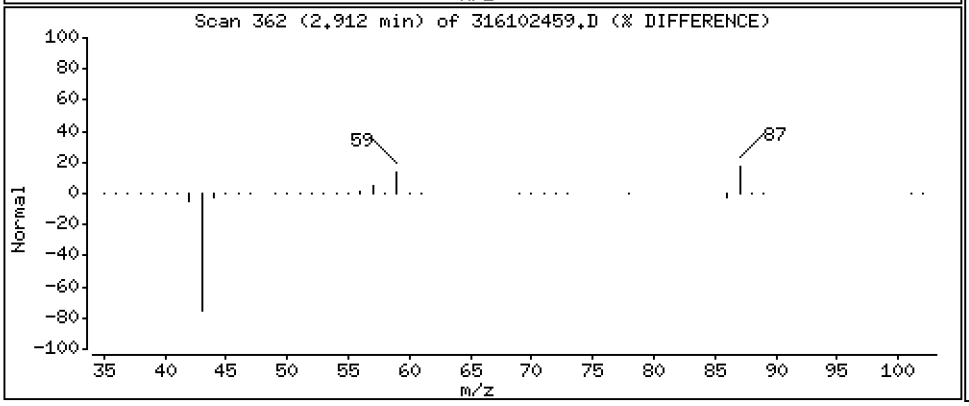
Column phase: DB-VRX Column diameter: 0.25

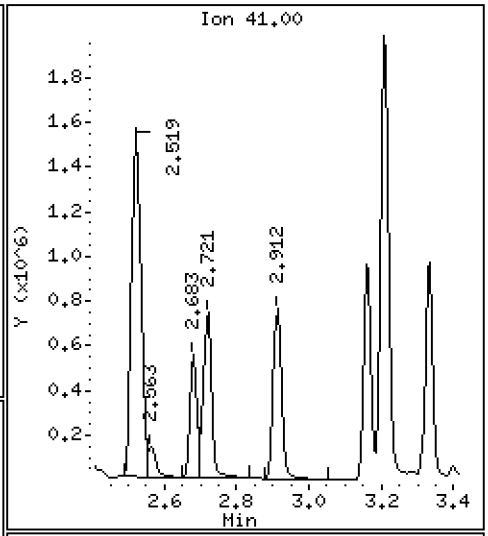
30 n-Propanol Concentration: 2000.15 ug/L

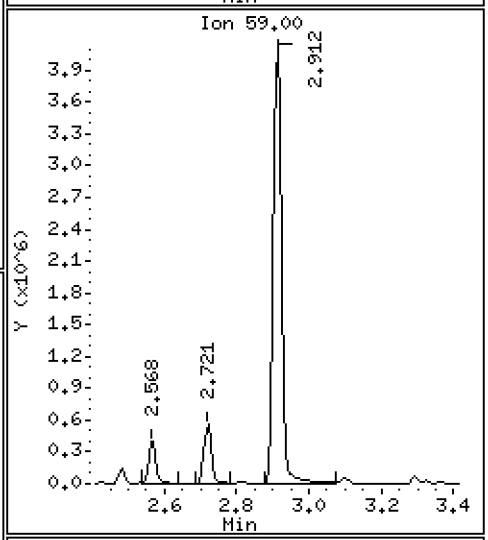


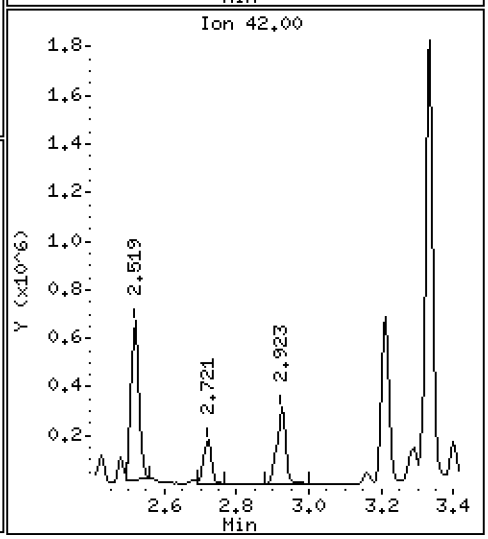












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 39

Date : 25-OCT-2016 01:36

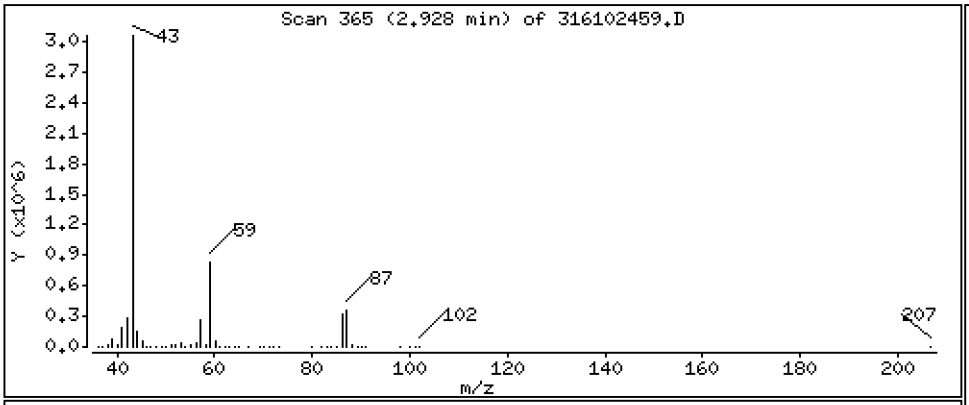
Client ID: Instrument: ms03.i

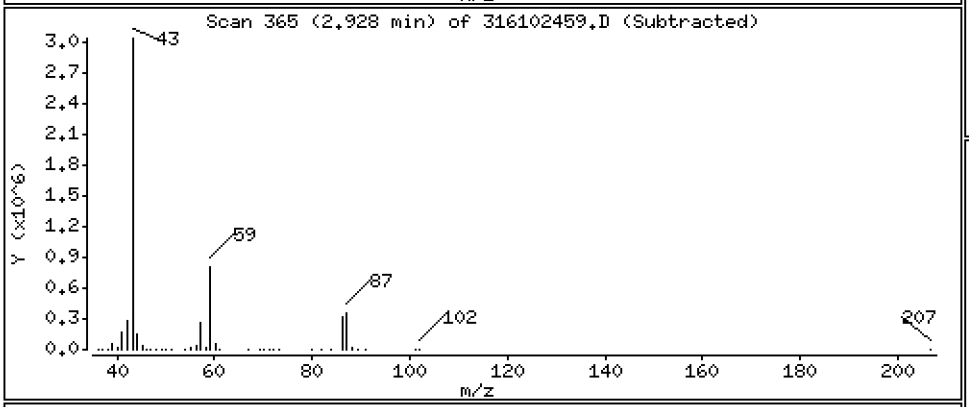
Sample Info: 1239;;1;1;6;;;

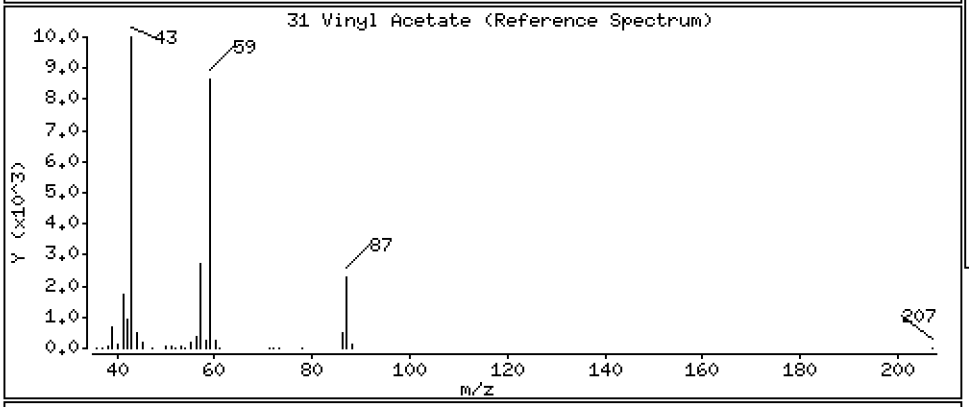
Purge Volume: 5.0 Operator: CJG

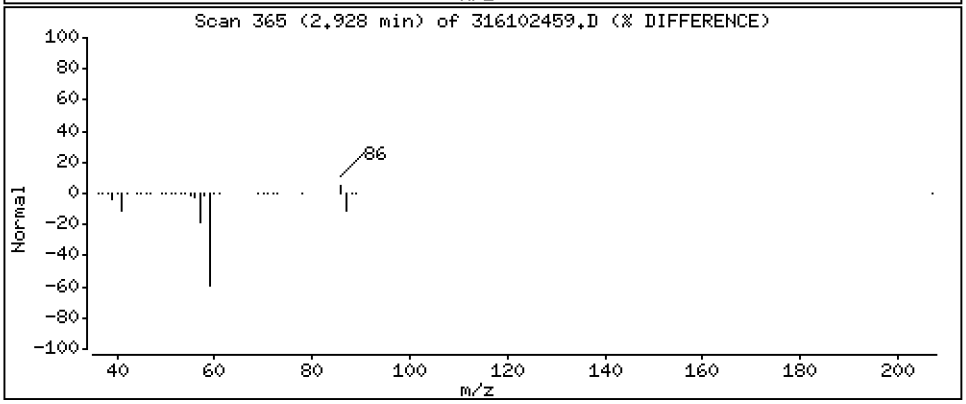
Column phase: DB-VRX Column diameter: 0.25

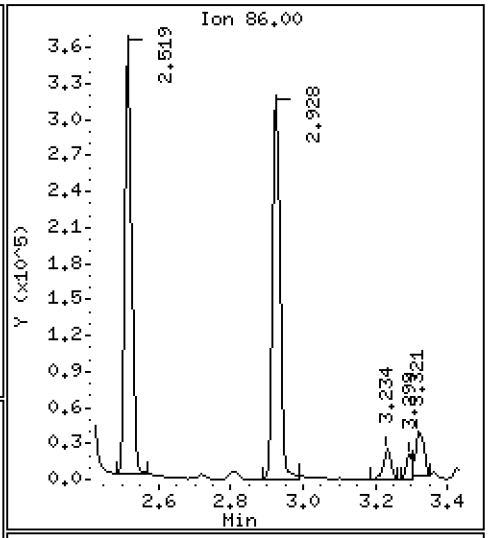
31 Vinyl Acetate Concentration: 199.840 ug/L

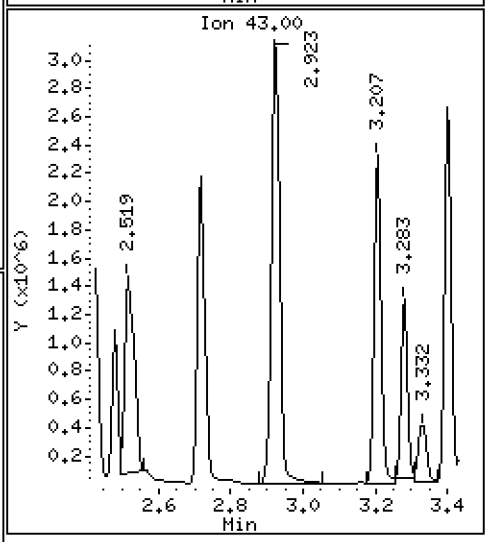












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 40

Date : 25-OCT-2016 01:36

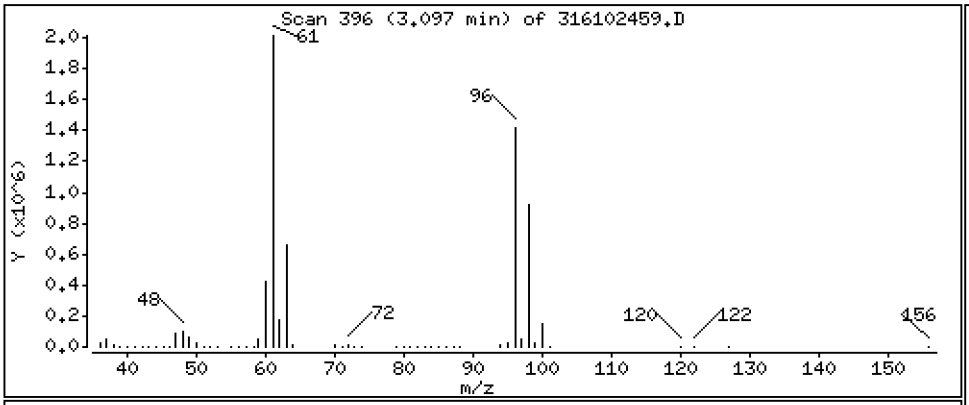
Client ID: Instrument: ms03.i

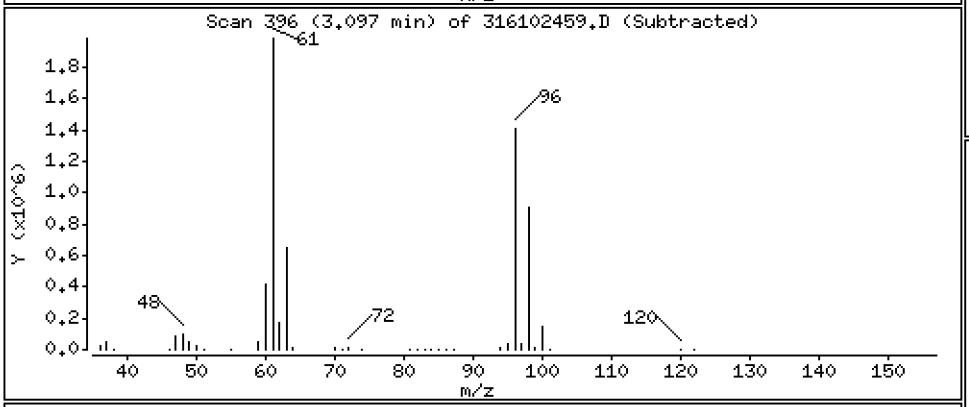
Sample Info: 1239;;1;1;6;;;

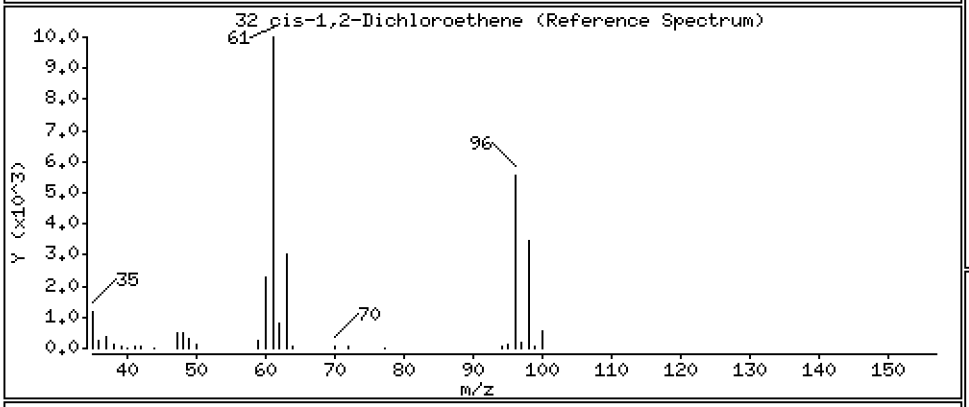
Purge Volume: 5.0 Operator: CJG

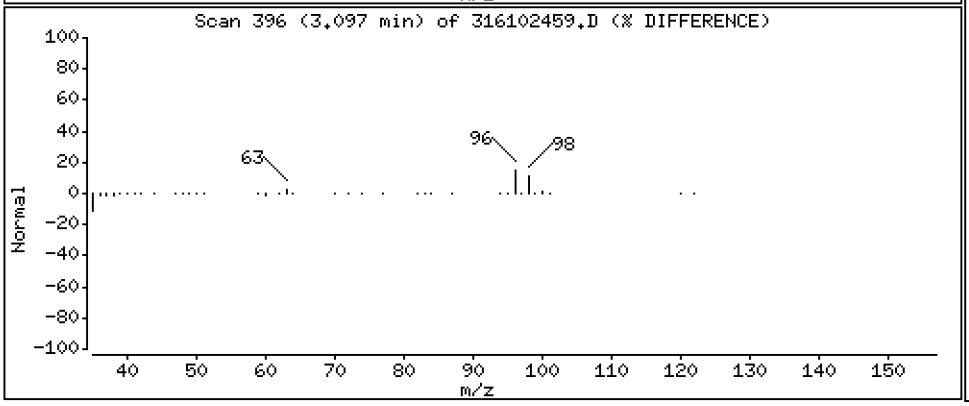
Column phase: DB-VRX Column diameter: 0.25

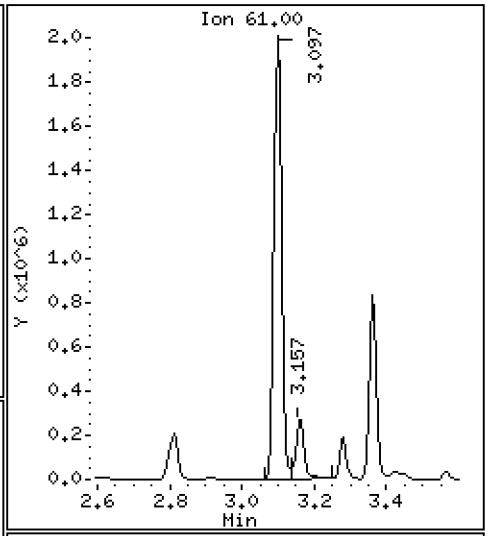
32 cis-1,2-Dichloroethene Concentration: 200.026 ug/L

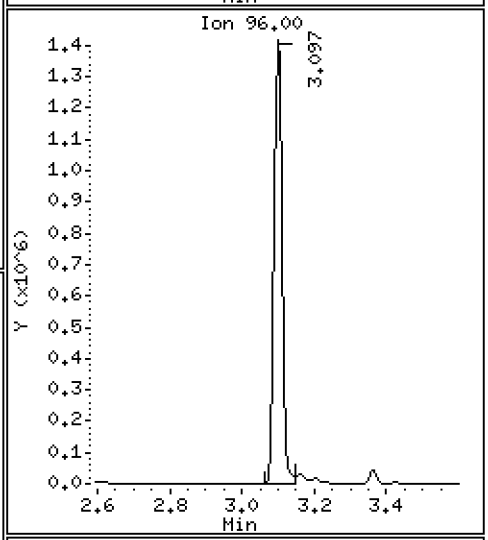


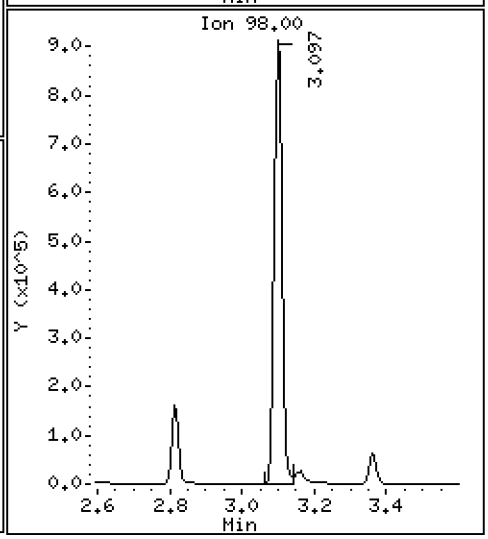












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 41

Date : 25-OCT-2016 01:36

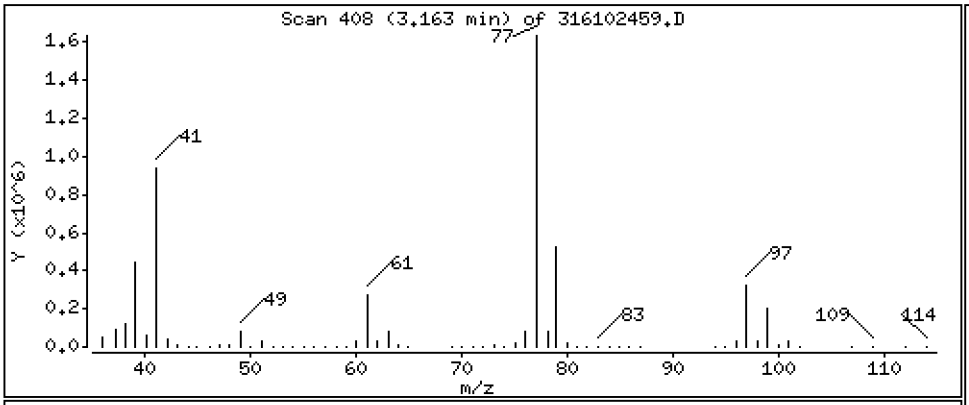
Client ID: Instrument: ms03.i

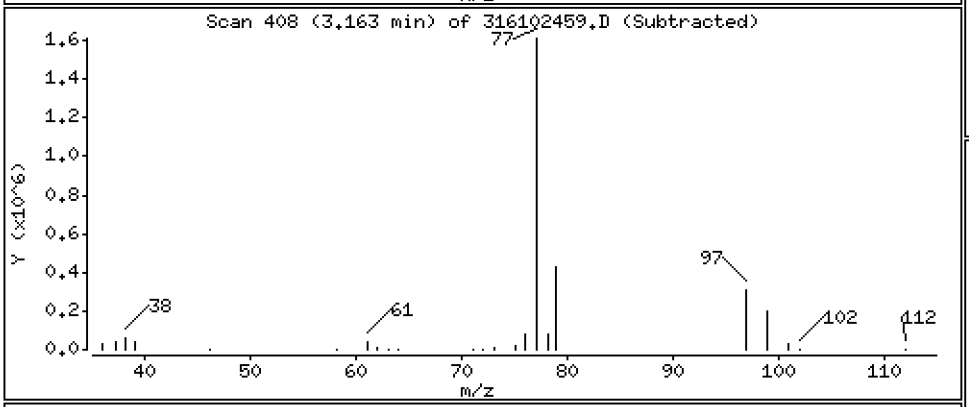
Sample Info: 1239;;1;1;6;;;

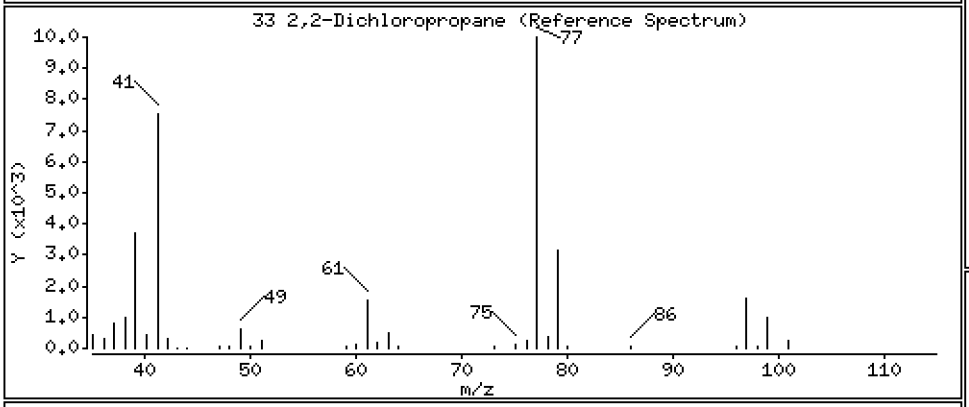
Purge Volume: 5.0 Operator: CJG

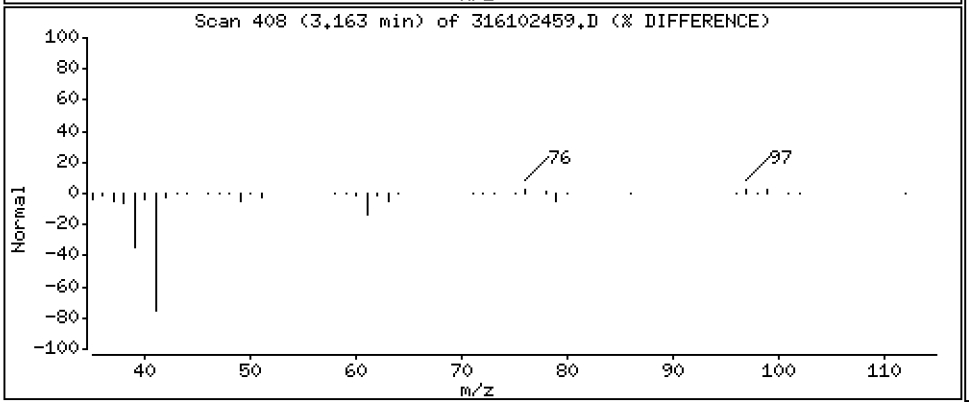
Column phase: DB-VRX Column diameter: 0.25

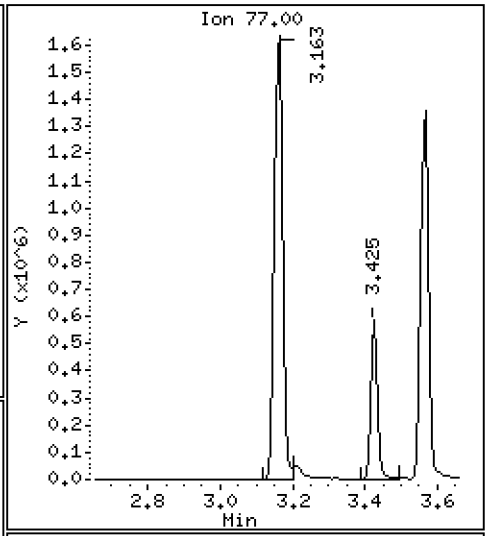
33 2,2-Dichloropropane Concentration: 199.927 ug/L

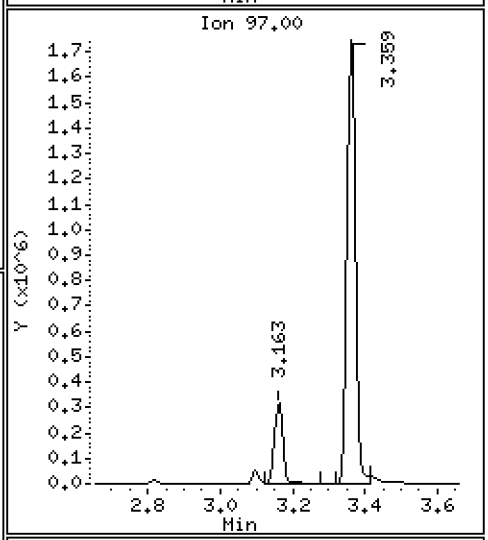


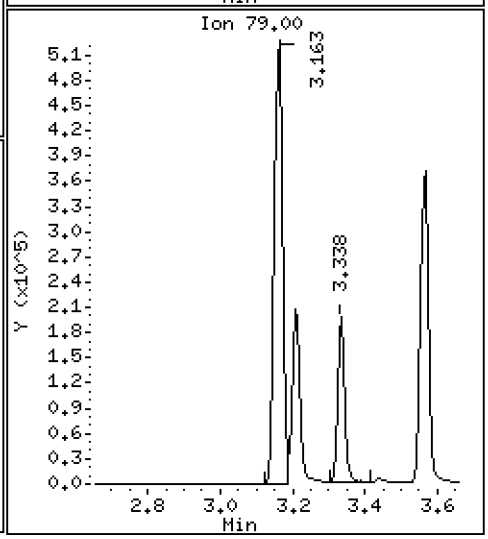












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 42

Date : 25-OCT-2016 01:36

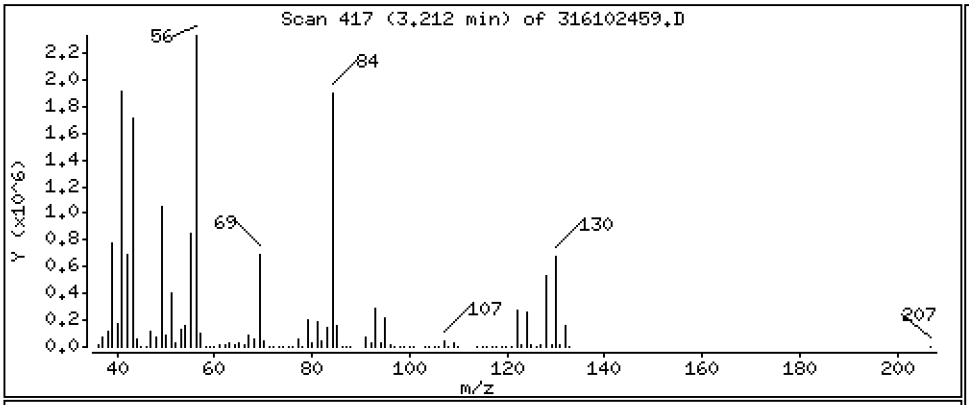
Client ID: Instrument: ms03.i

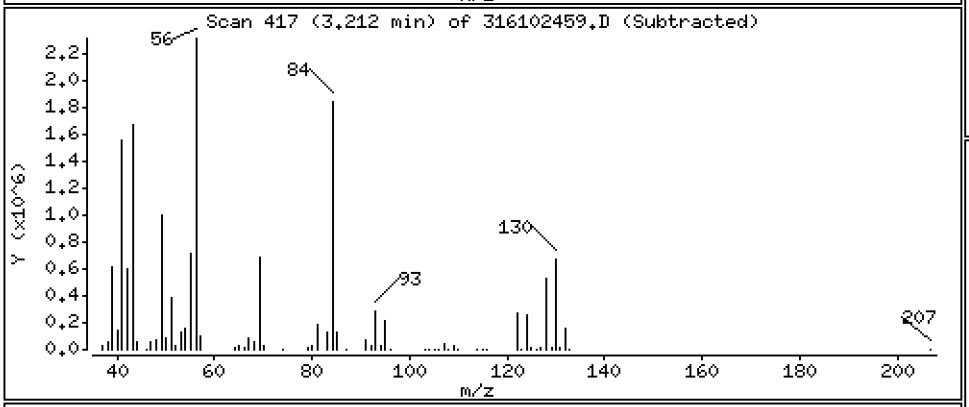
Sample Info: 1239;;1;1;6;;;

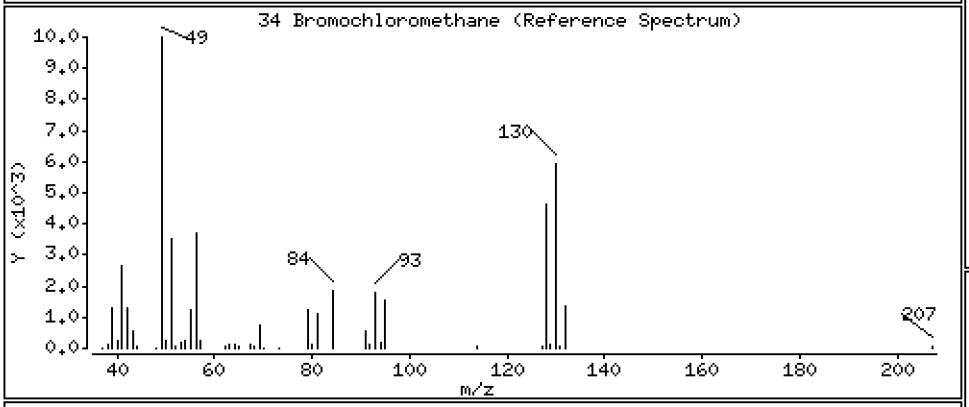
Purge Volume: 5.0 Operator: CJG

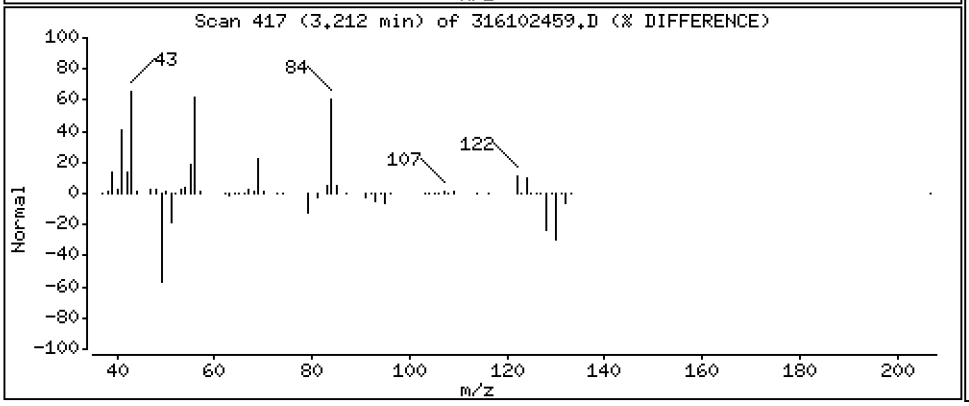
Column phase: DB-VRX Column diameter: 0.25

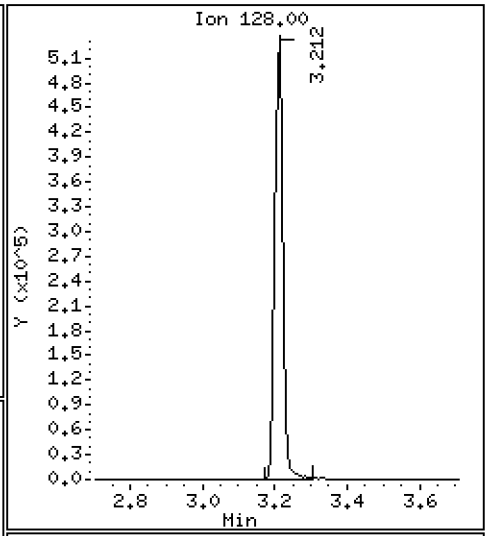
34 Bromochloromethane Concentration: 199.684 ug/L

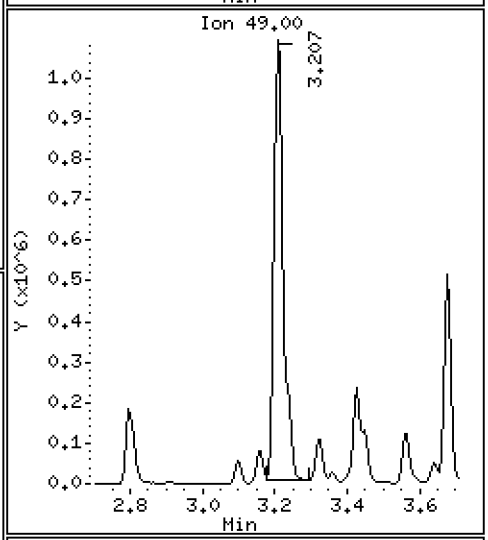


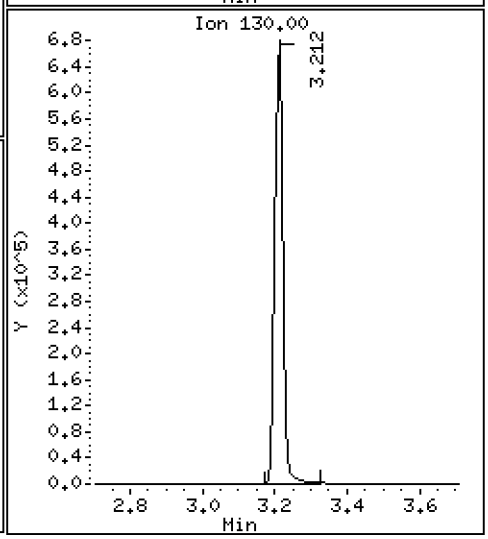












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 43

Date : 25-OCT-2016 01:36

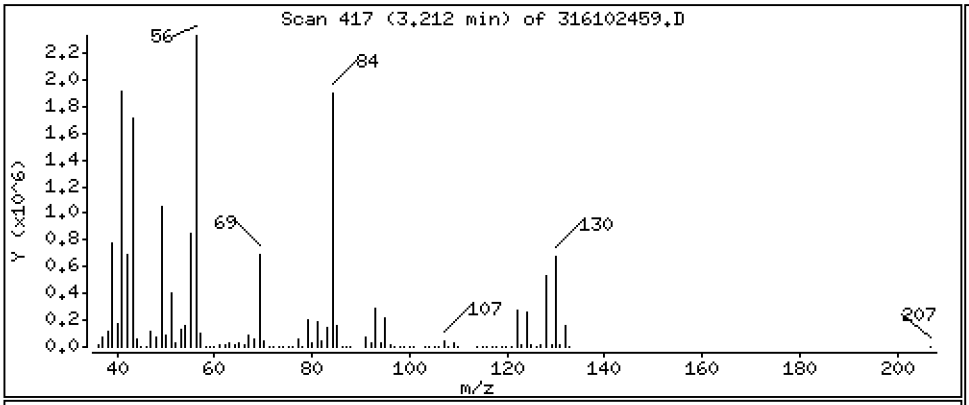
Client ID: Instrument: ms03.i

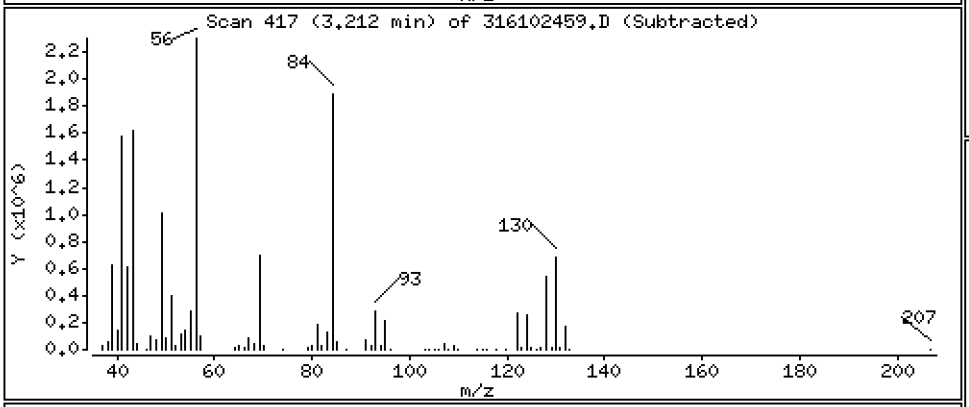
Sample Info: 1239;;1;1;6;;;

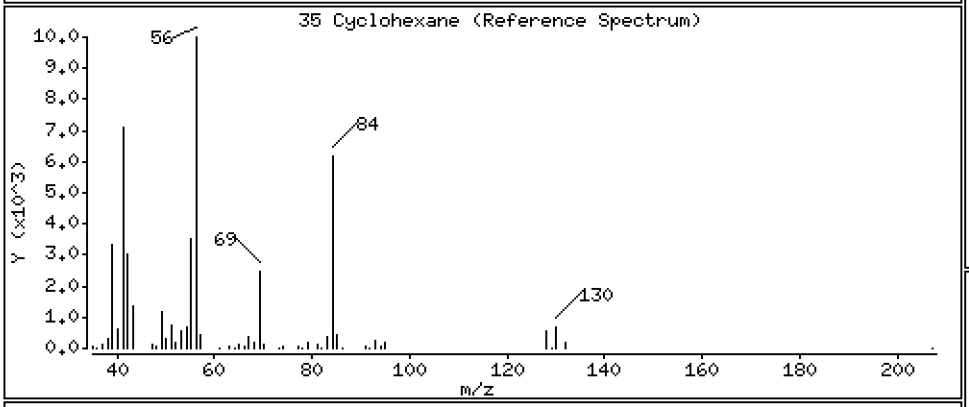
Purge Volume: 5.0 Operator: CJG

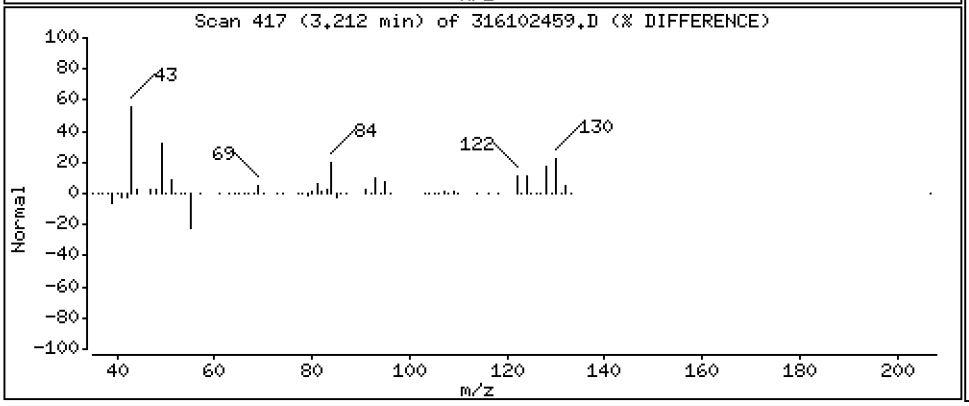
Column phase: DB-VRX Column diameter: 0.25

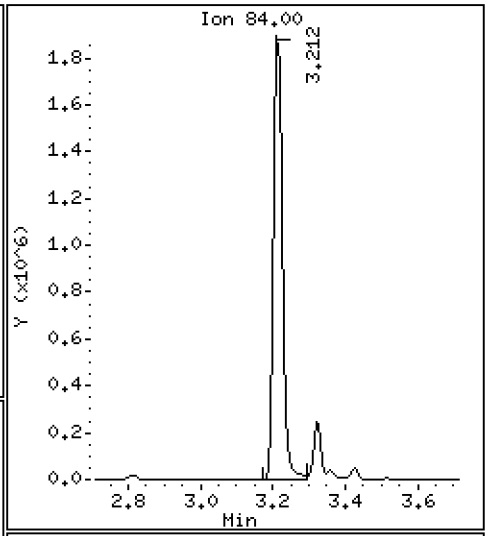
35 Cyclohexane Concentration: 200.114 ug/L

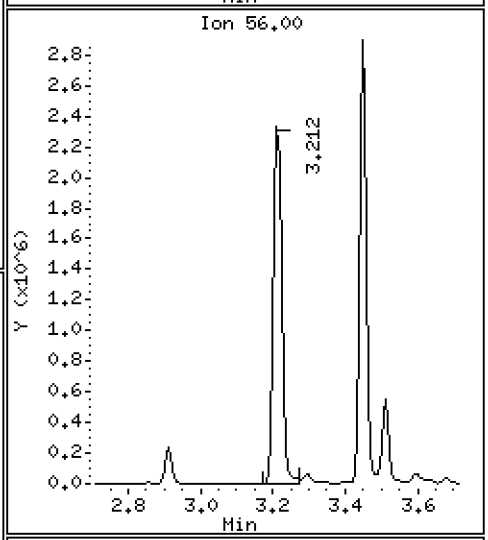


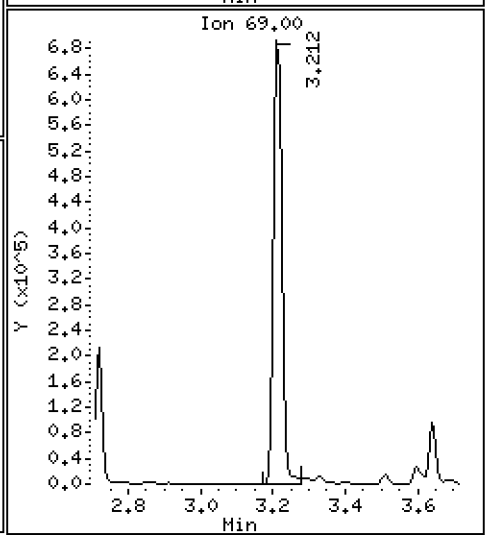












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 44

Date : 25-OCT-2016 01:36

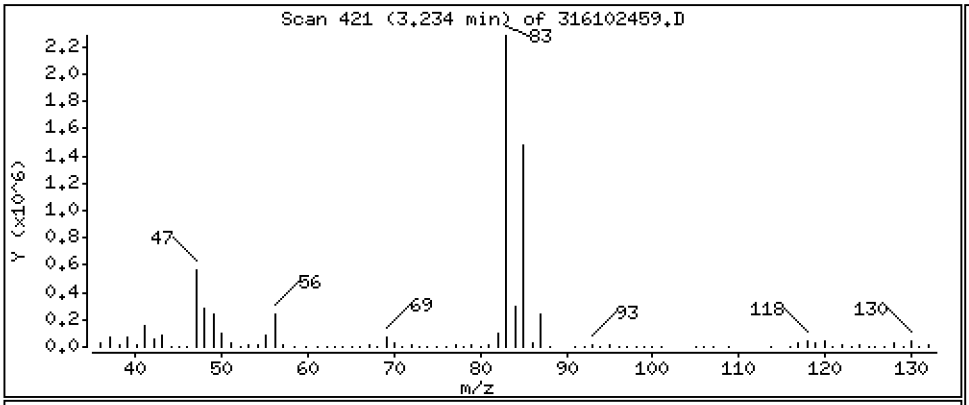
Client ID: Instrument: ms03.i

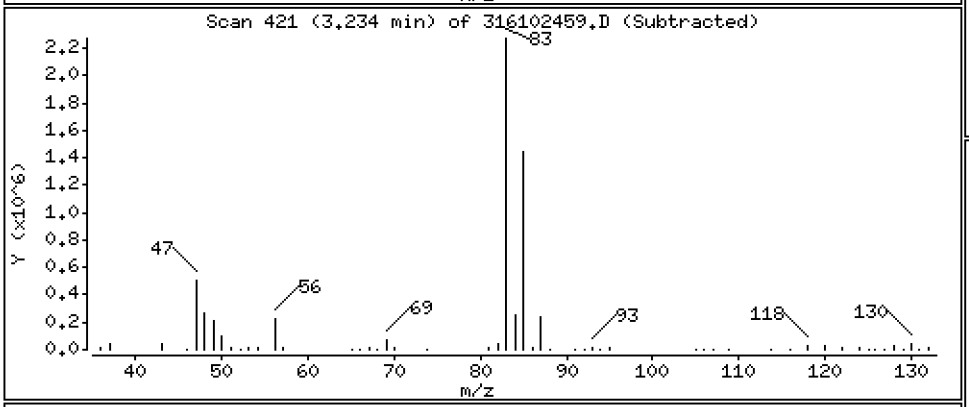
Sample Info: 1239;;1;1;6;;;

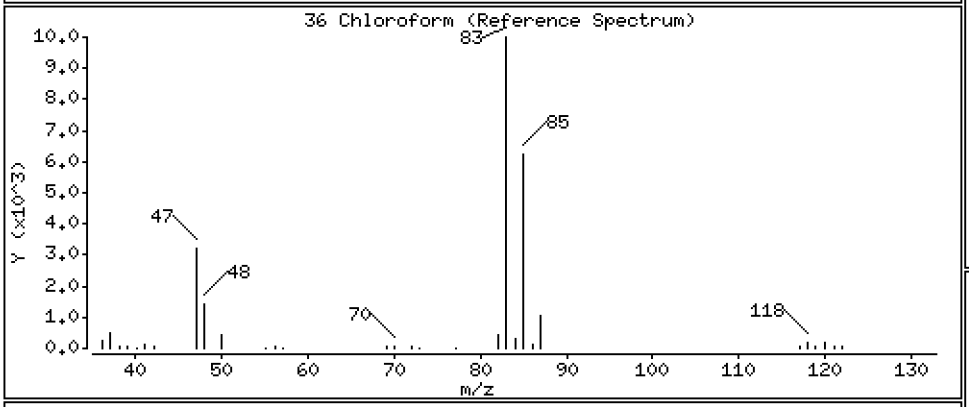
Purge Volume: 5.0 Operator: CJG

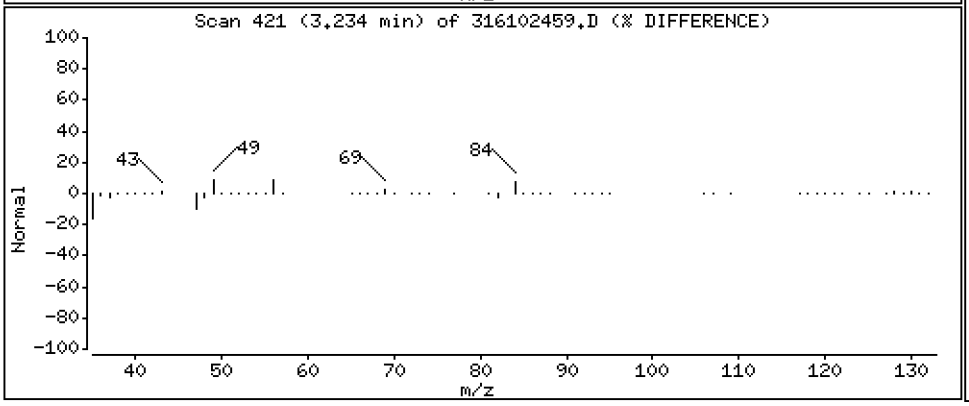
Column phase: DB-VRX Column diameter: 0.25

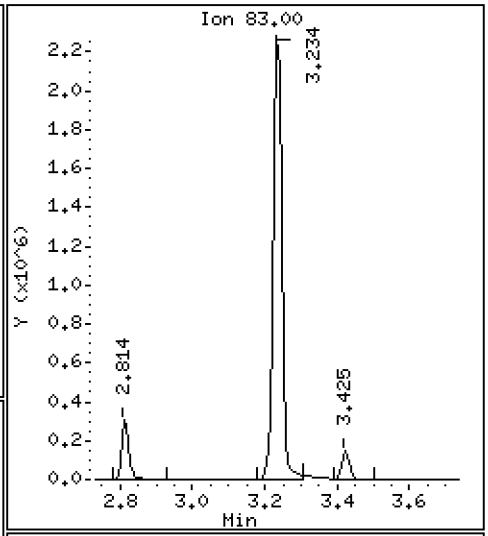
36 Chloroform Concentration: 200.129 ug/L

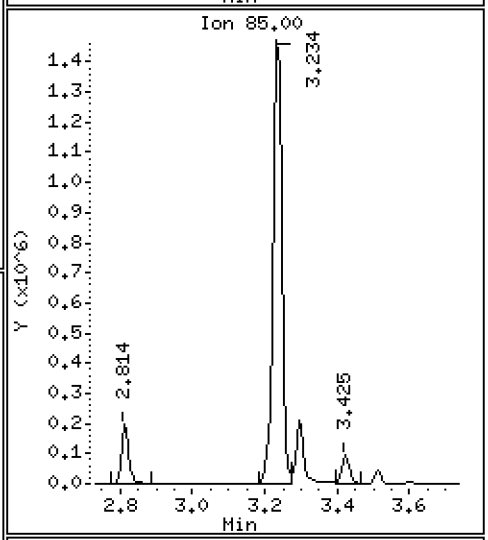


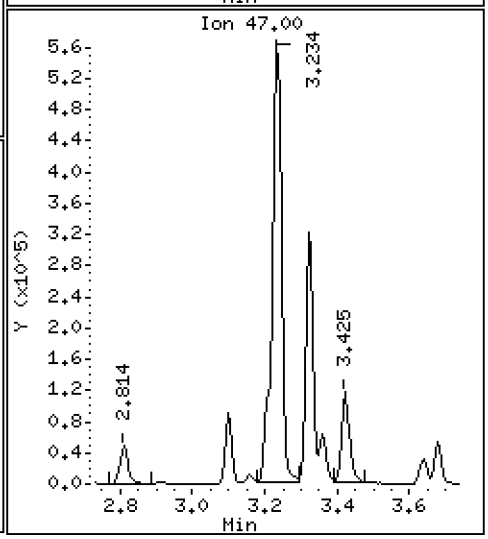












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 45

Date : 25-OCT-2016 01:36

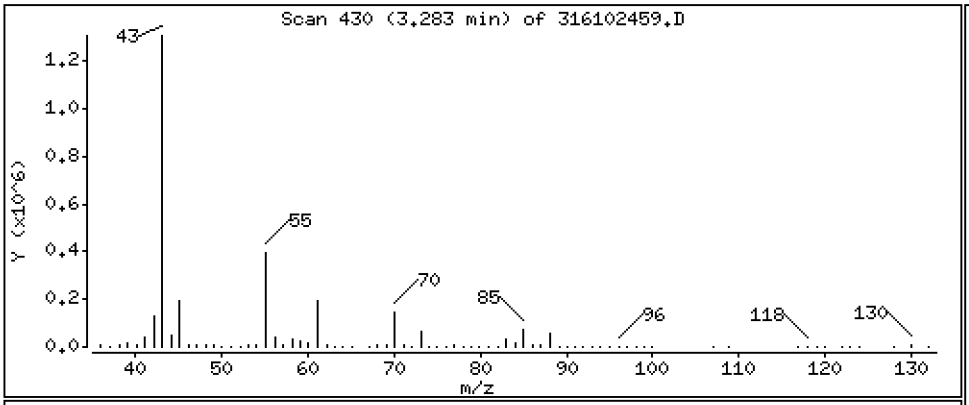
Client ID: Instrument: ms03.i

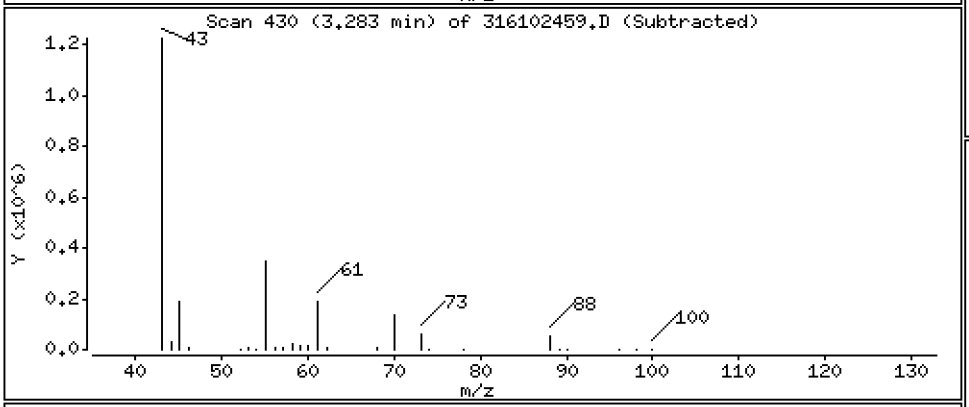
Sample Info: 1239;;1;1;6;;;

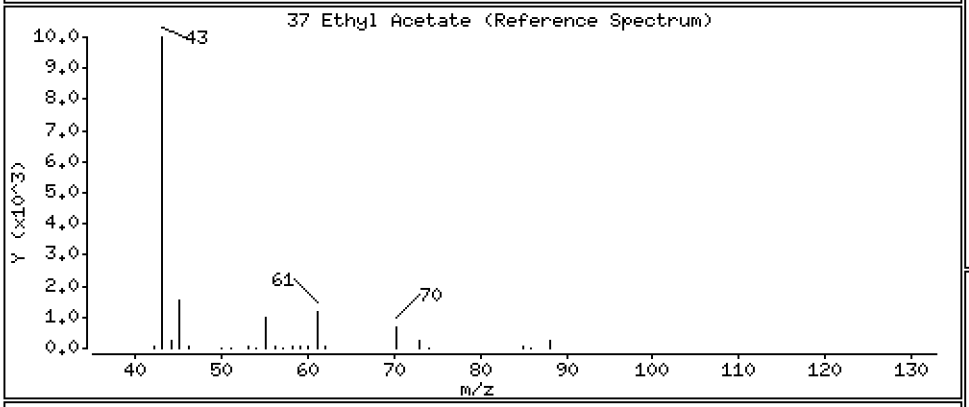
Purge Volume: 5.0 Operator: CJG

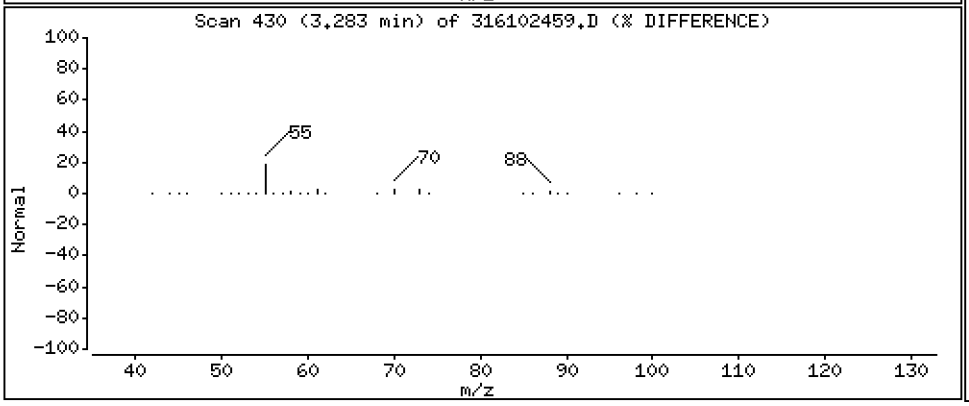
Column phase: DB-VRX Column diameter: 0.25

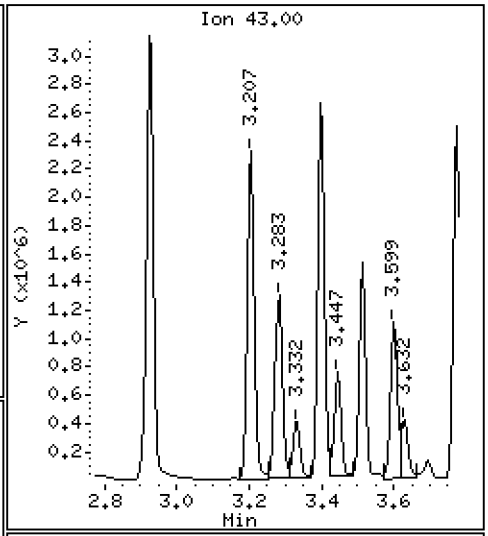
37 Ethyl Acetate Concentration: 200.015 ug/L

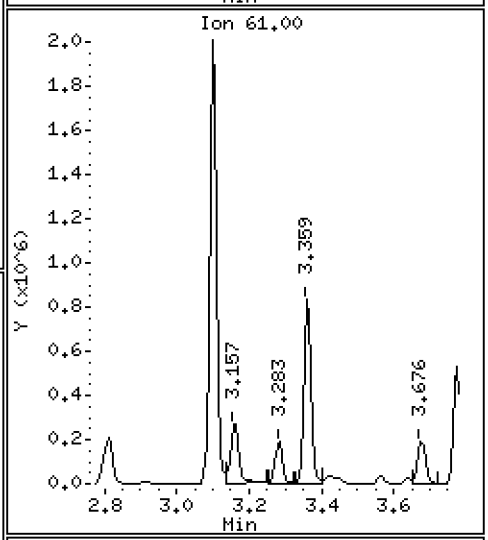


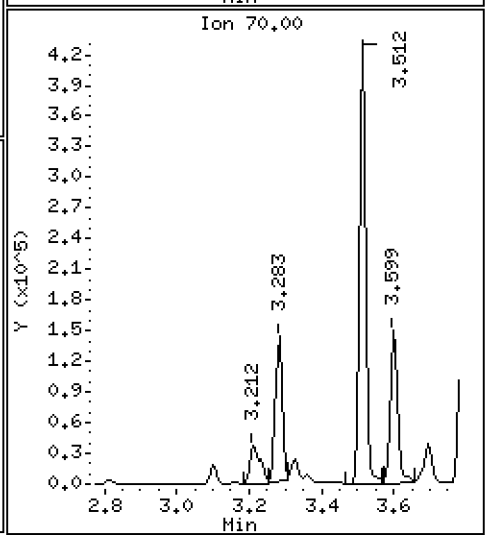












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 46

Date : 25-OCT-2016 01:36

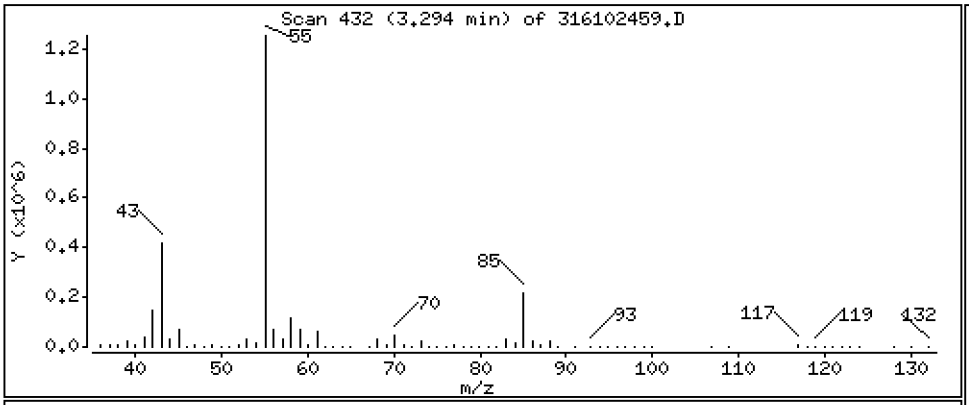
Client ID: Instrument: ms03.i

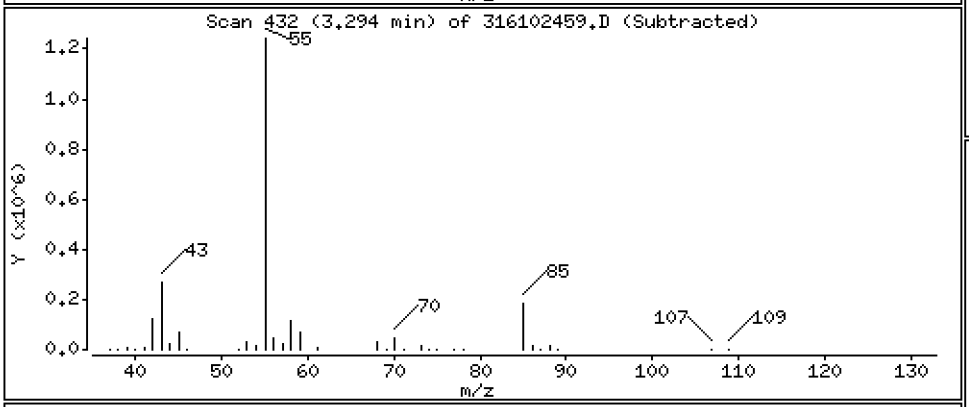
Sample Info: 1239;;1;1;6;;;

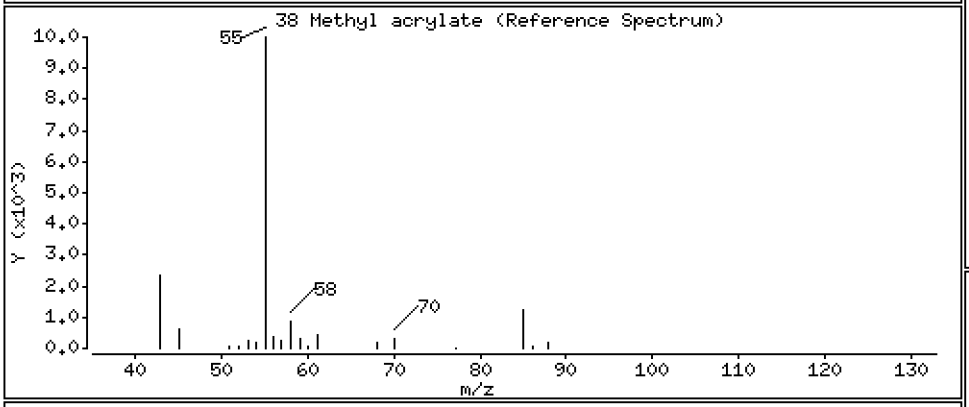
Purge Volume: 5.0 Operator: CJG

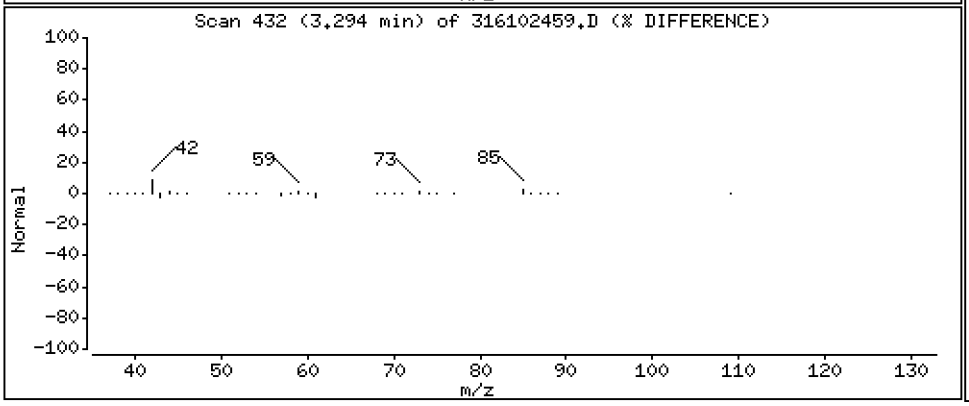
Column phase: DB-VRX Column diameter: 0.25

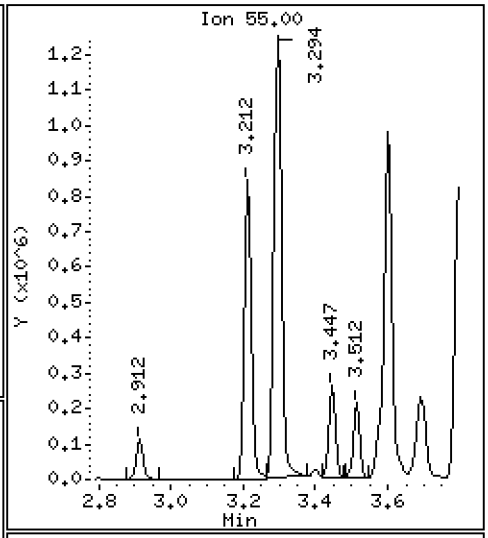
38 Methyl acrylate Concentration: 199.986 ug/L

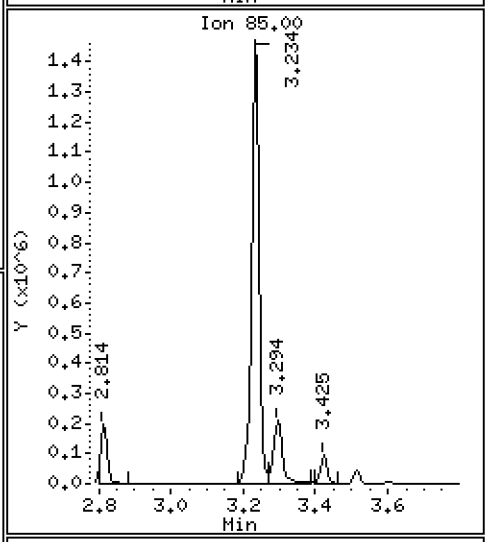


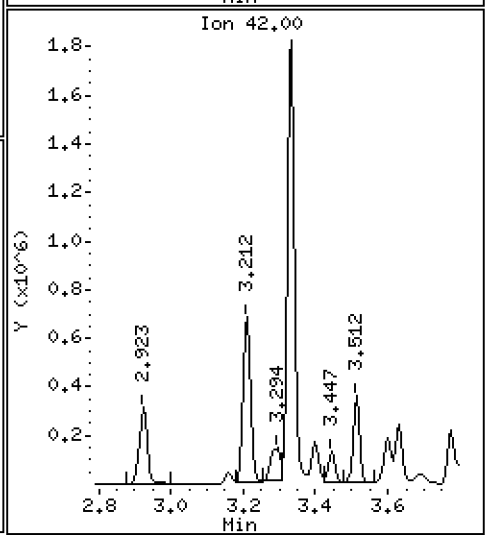












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 47

Date : 25-OCT-2016 01:36

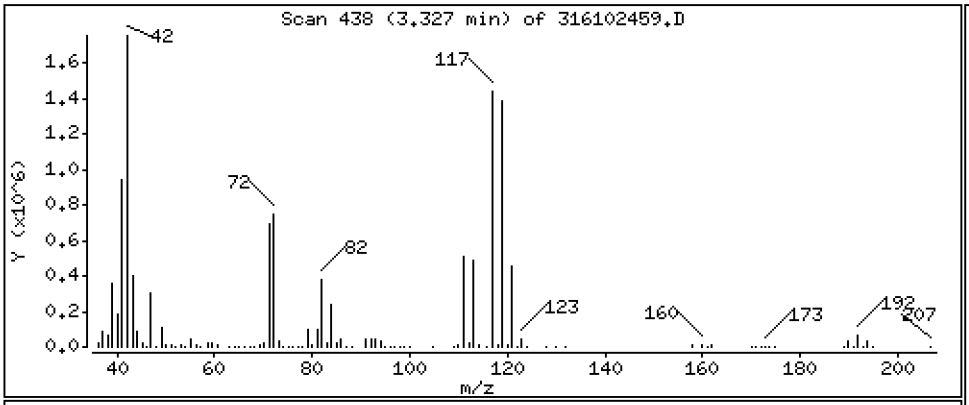
Client ID: Instrument: ms03.i

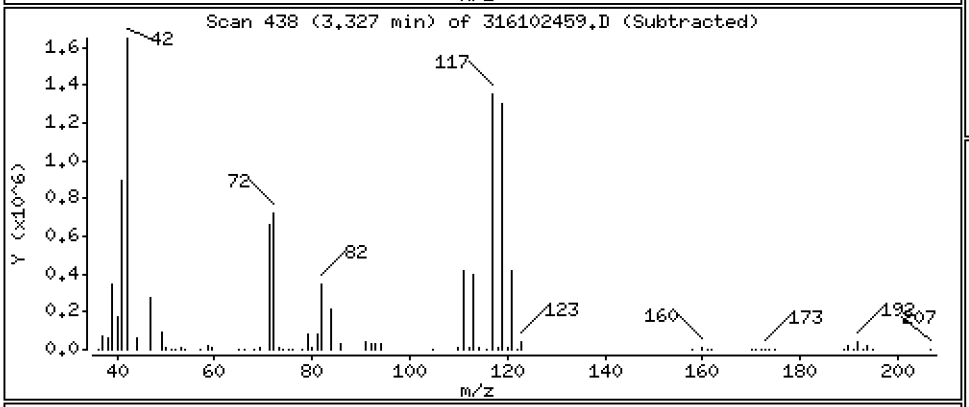
Sample Info: 1239;;1;1;6;;;

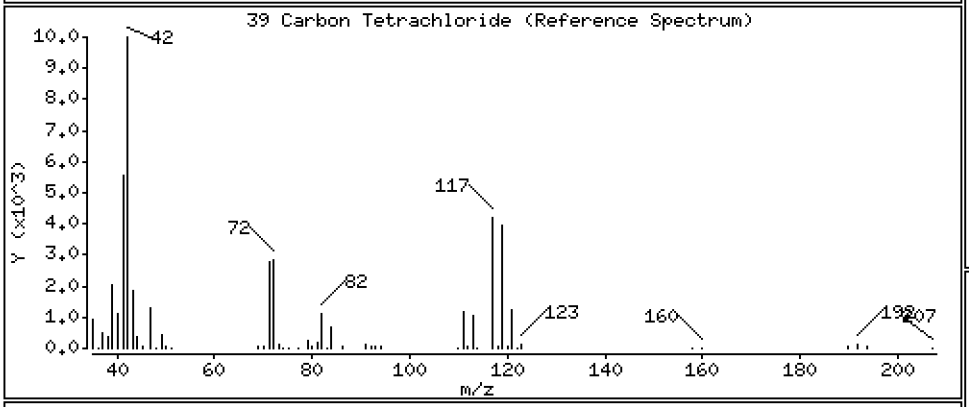
Purge Volume: 5.0 Operator: CJG

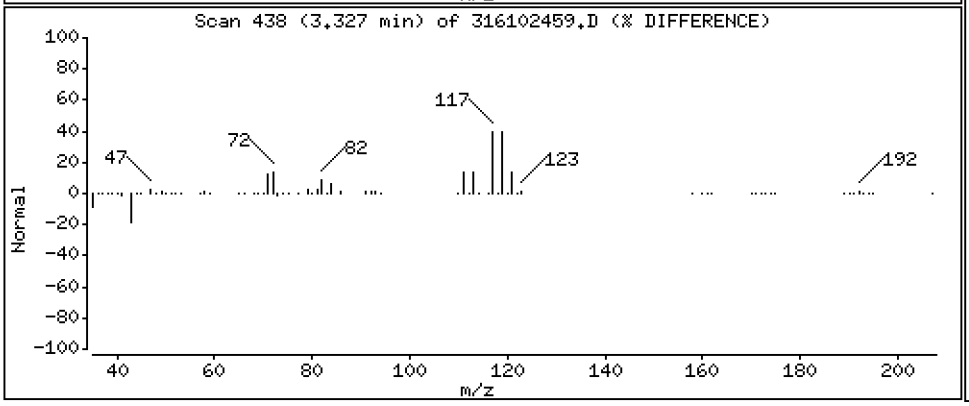
Column phase: DB-VRX Column diameter: 0.25

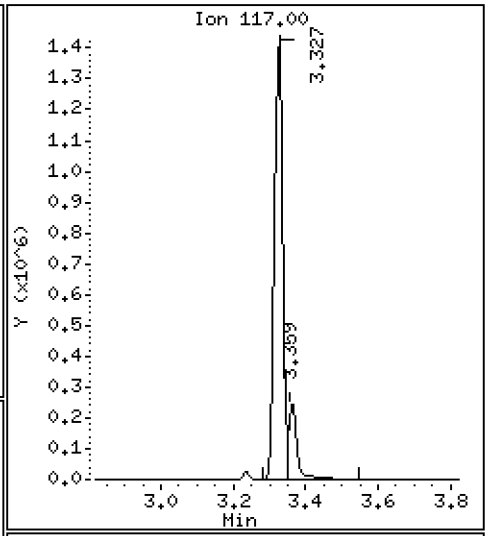
39 Carbon Tetrachloride Concentration: 199.971 ug/L

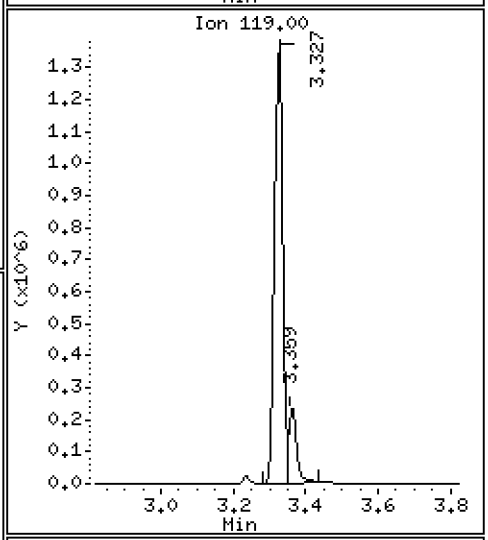


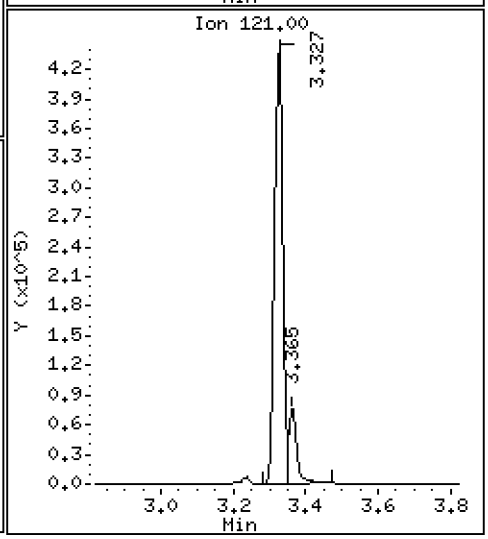












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 48

Date : 25-OCT-2016 01:36

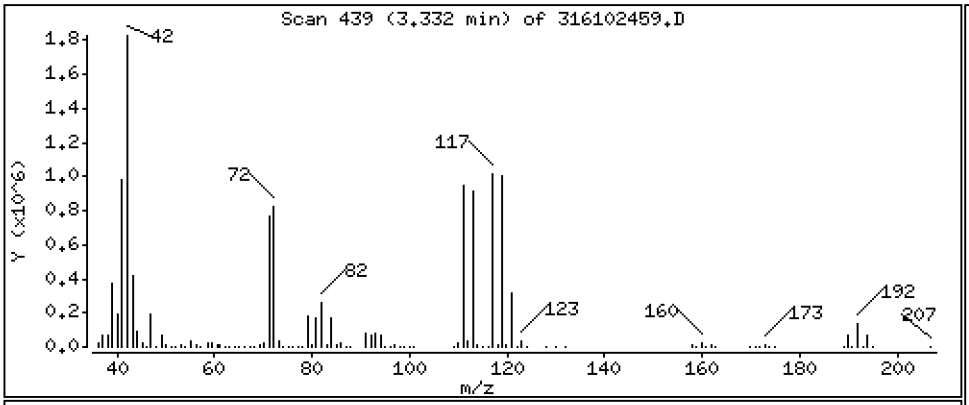
Client ID: Instrument: ms03.i

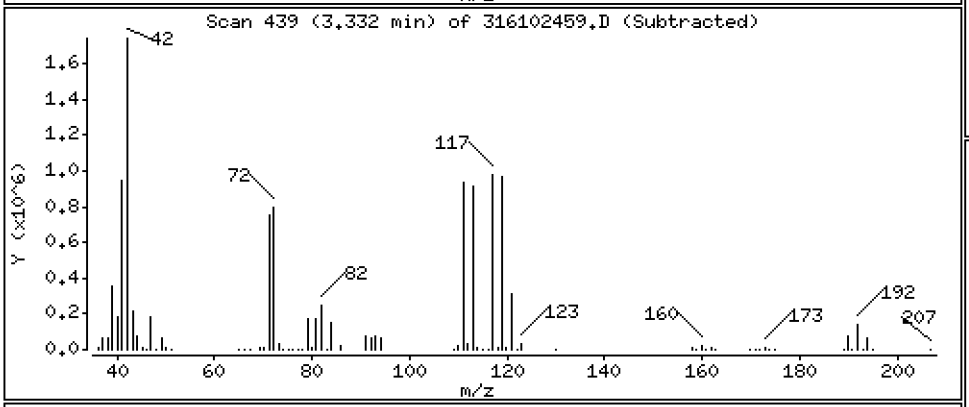
Sample Info: 1239;;1;1;6;;;

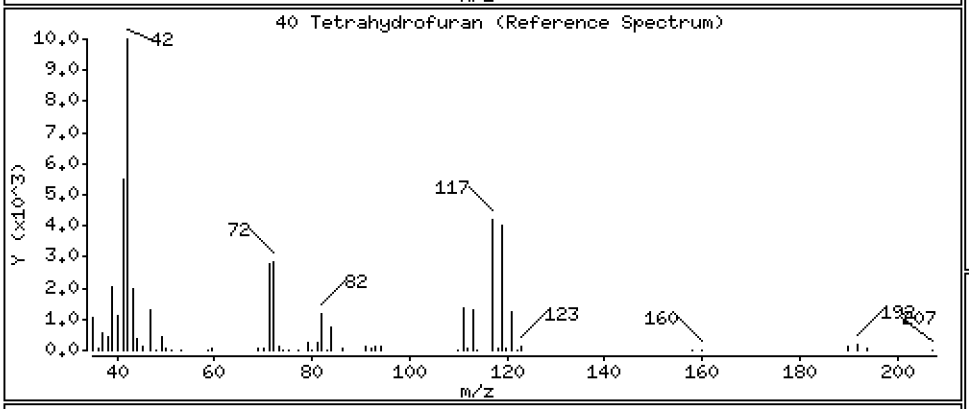
Purge Volume: 5.0 Operator: CJG

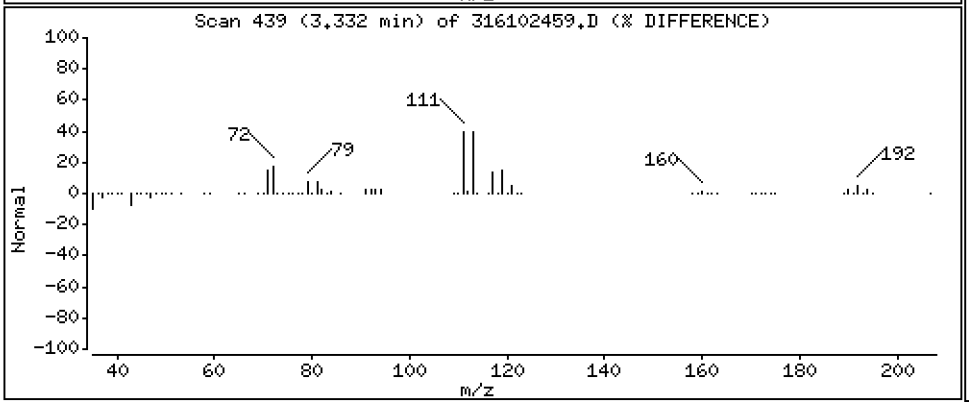
Column phase: DB-VRX Column diameter: 0.25

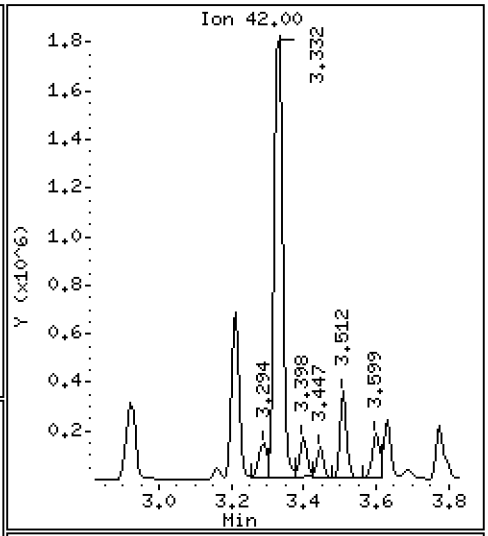
40 Tetrahydrofuran Concentration: 1000.65 ug/L

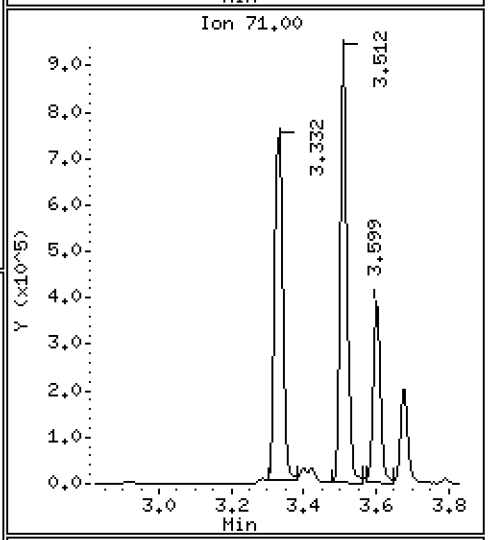


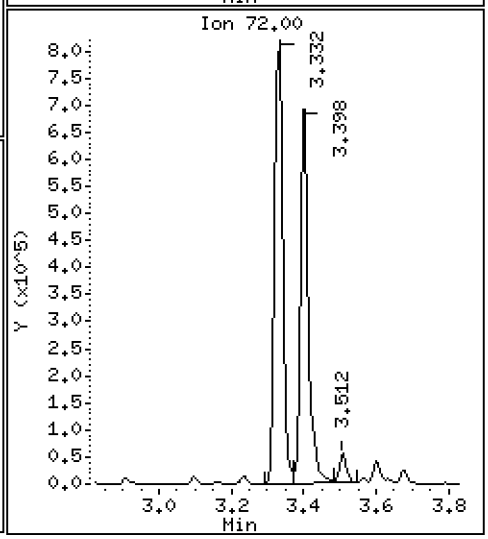












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 49

Date : 25-OCT-2016 01:36

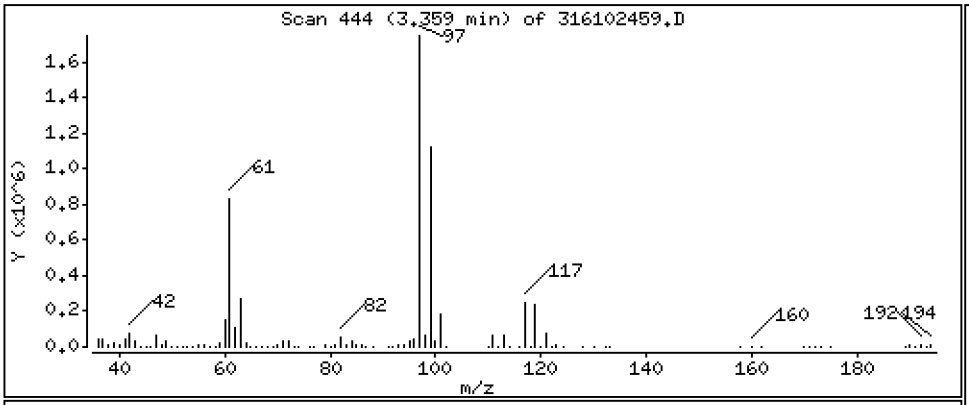
Client ID: Instrument: ms03.i

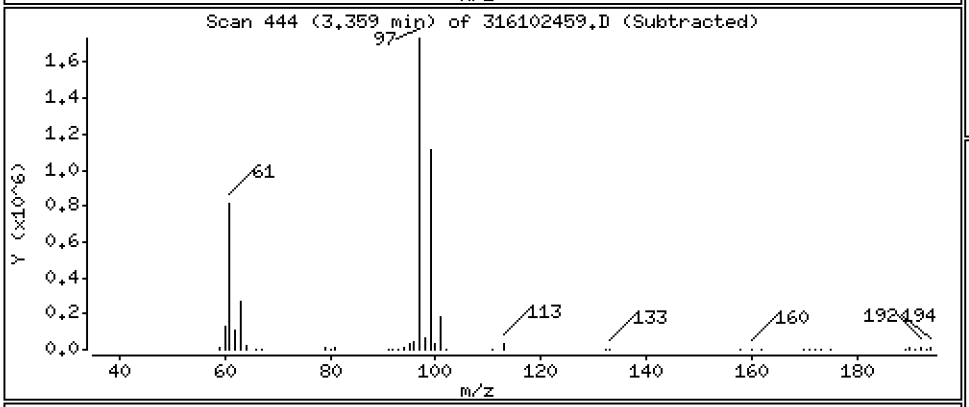
Sample Info: 1239;;1;1;6;;;

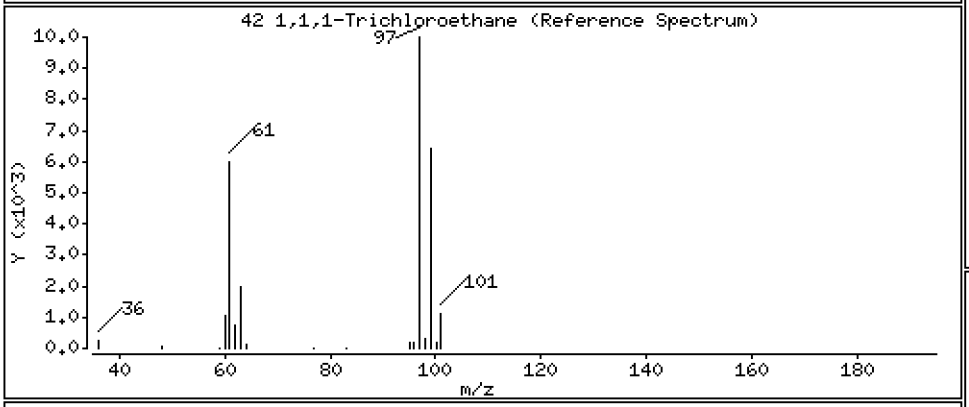
Purge Volume: 5.0 Operator: CJG

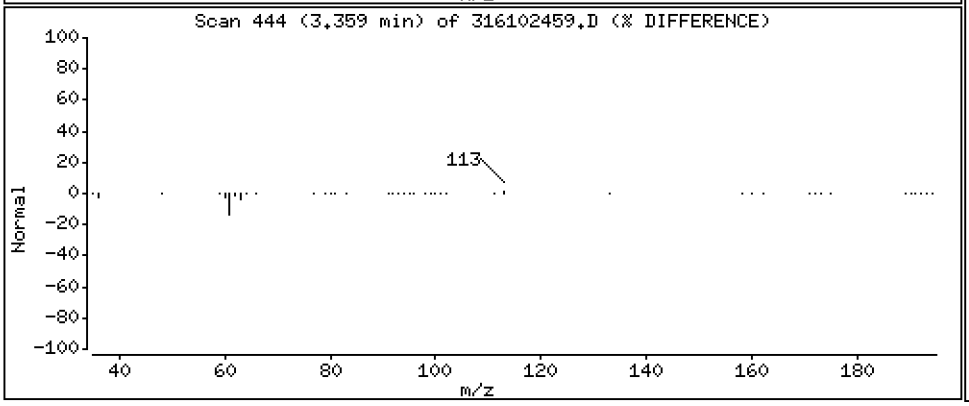
Column phase: DB-VRX Column diameter: 0.25

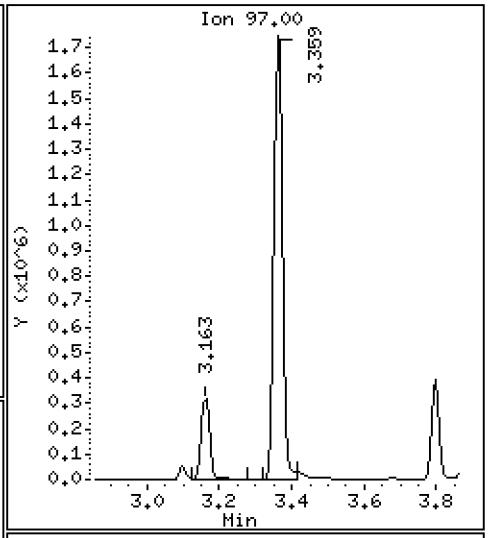
42 1,1,1-Trichloroethane Concentration: 199.871 ug/L

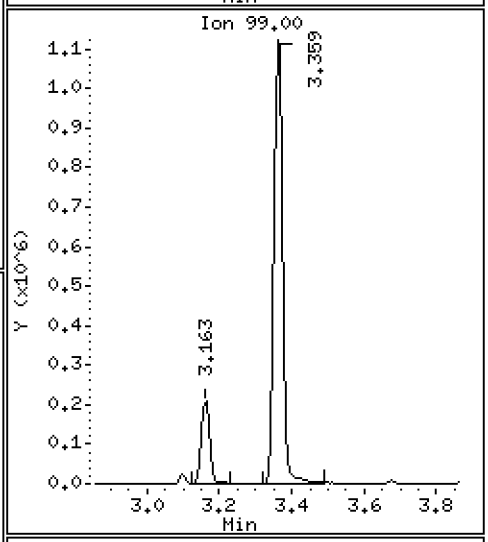


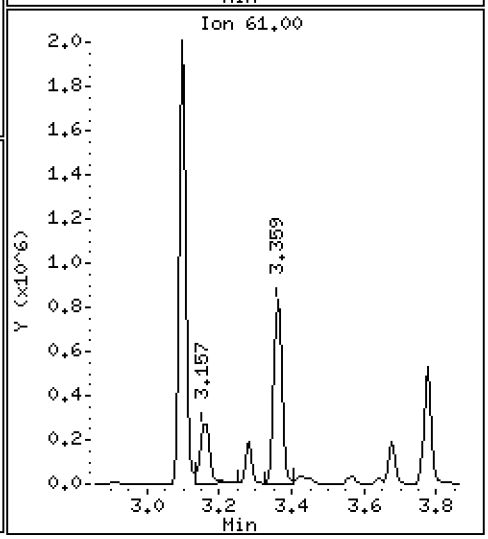












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 50

Date : 25-OCT-2016 01:36

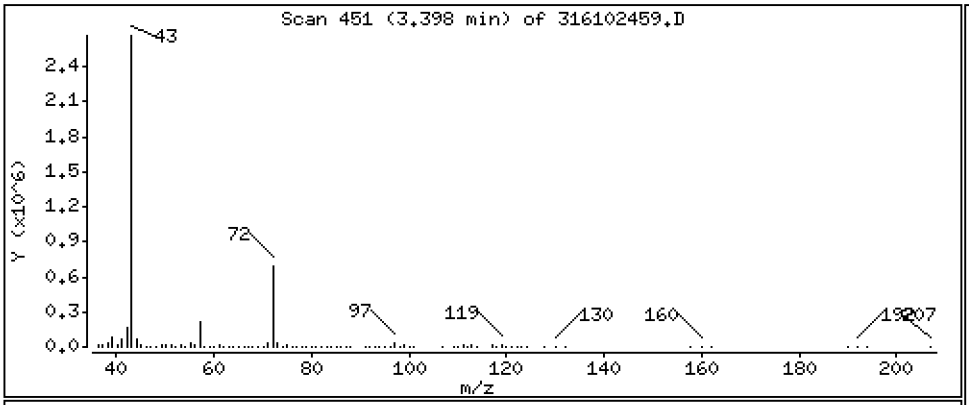
Client ID: Instrument: ms03.i

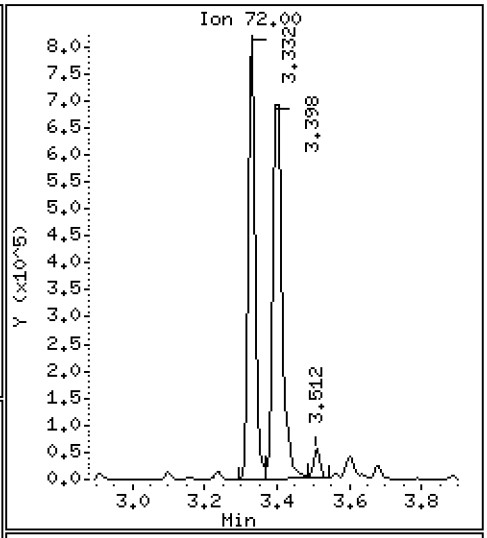
Sample Info: 1239;;1;1;6;;;

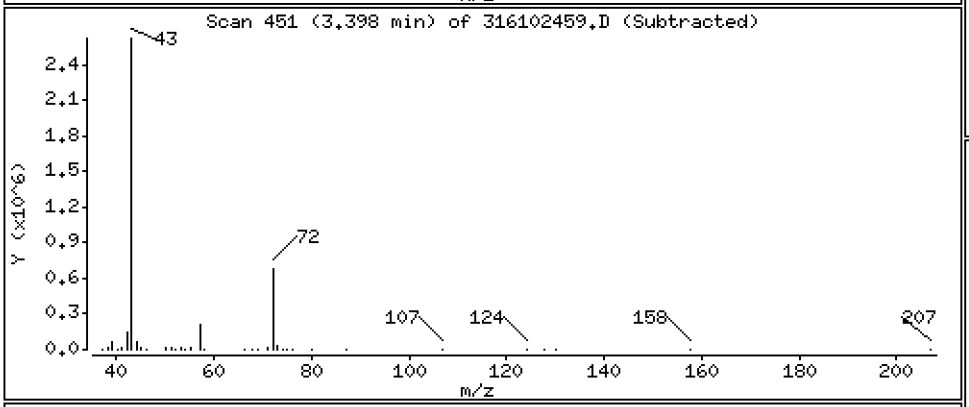
Purge Volume: 5.0 Operator: CJG

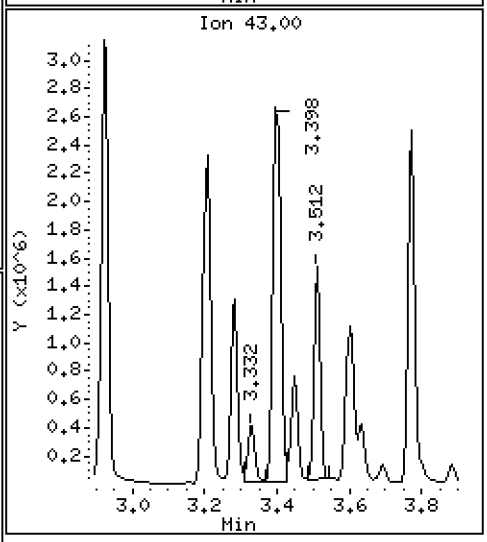
Column phase: DB-VRX Column diameter: 0.25

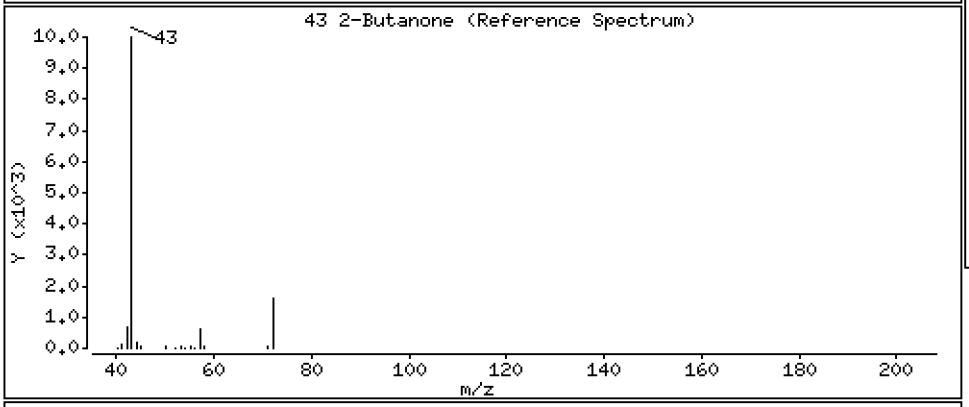
43 2-Butanone Concentration: 1000.52 ug/L

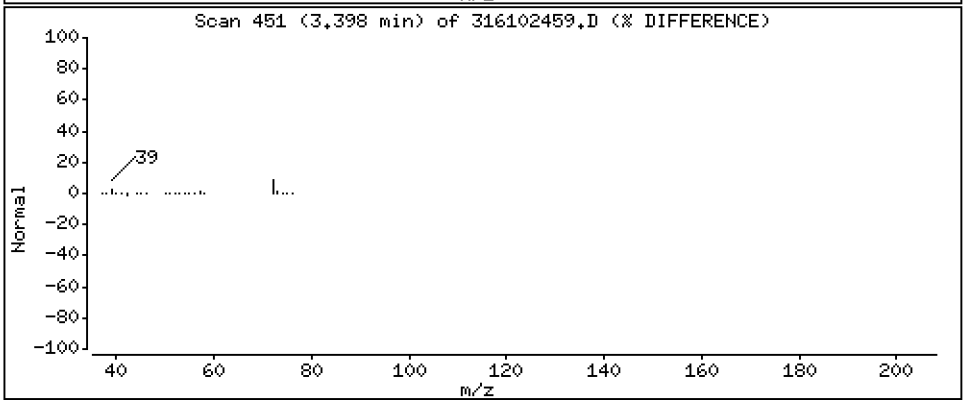












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 51

Date : 25-OCT-2016 01:36

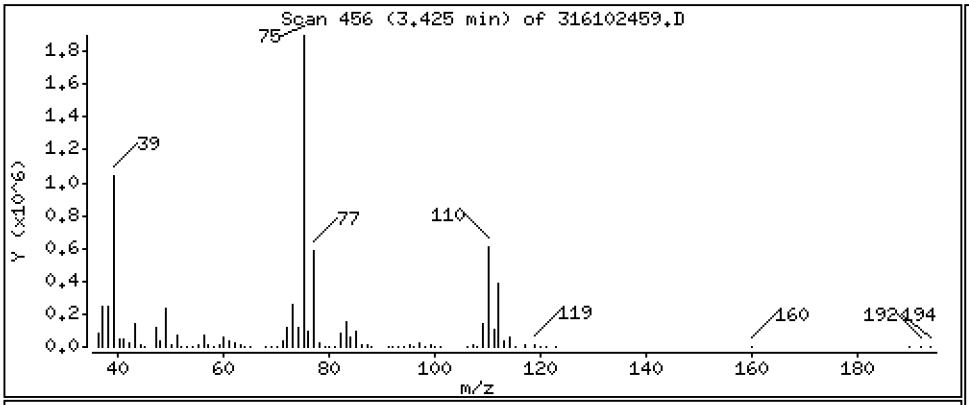
Client ID: Instrument: ms03.i

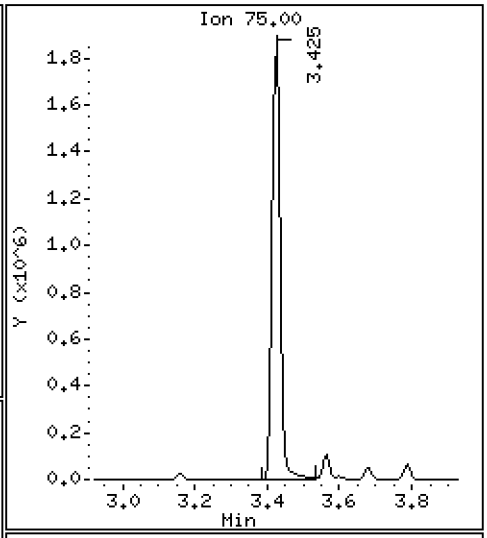
Sample Info: 1239;;1;1;6;;;

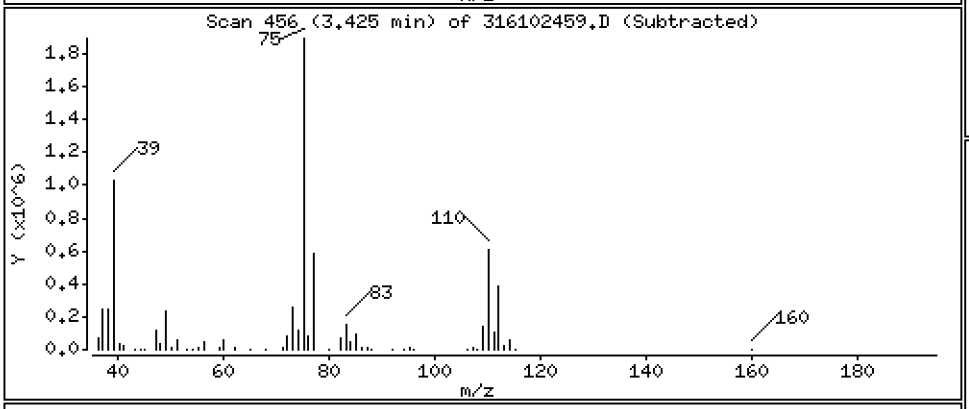
Purge Volume: 5.0 Operator: CJG

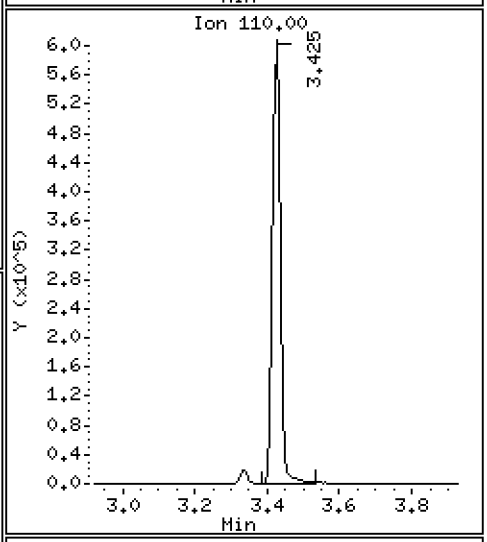
Column phase: DB-VRX Column diameter: 0.25

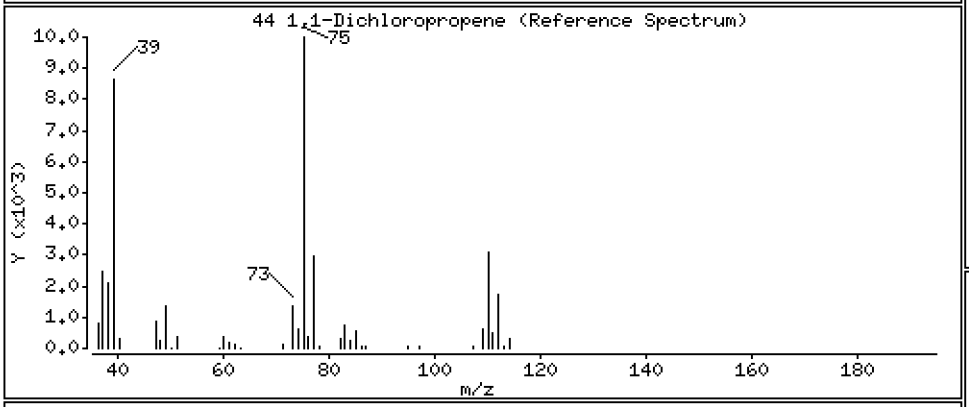
44 1,1-Dichloropropene Concentration: 200.103 ug/L

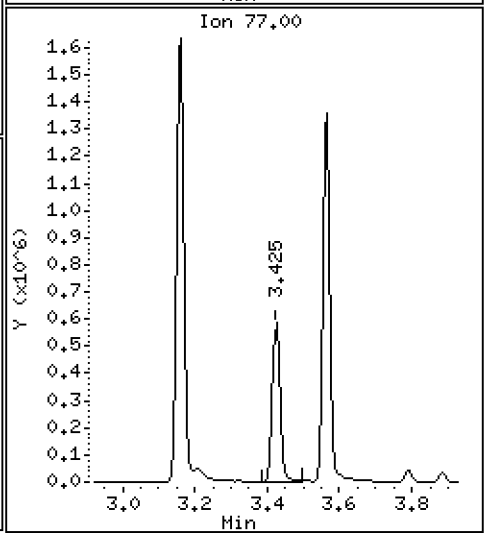


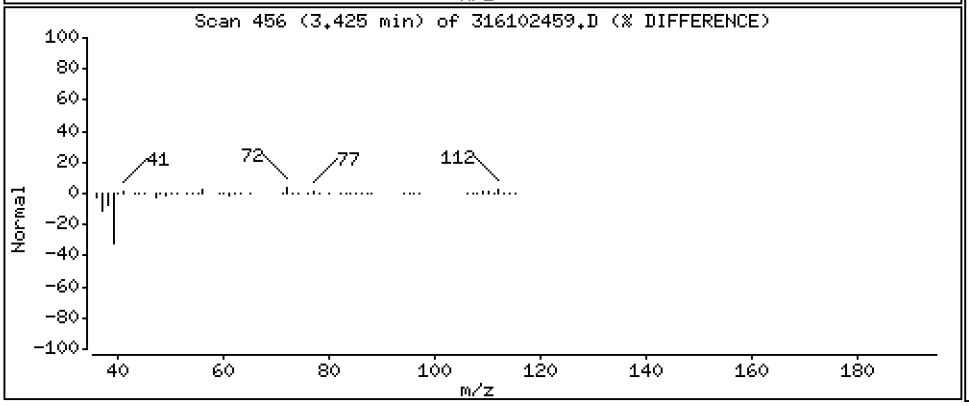












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 52

Date : 25-OCT-2016 01:36

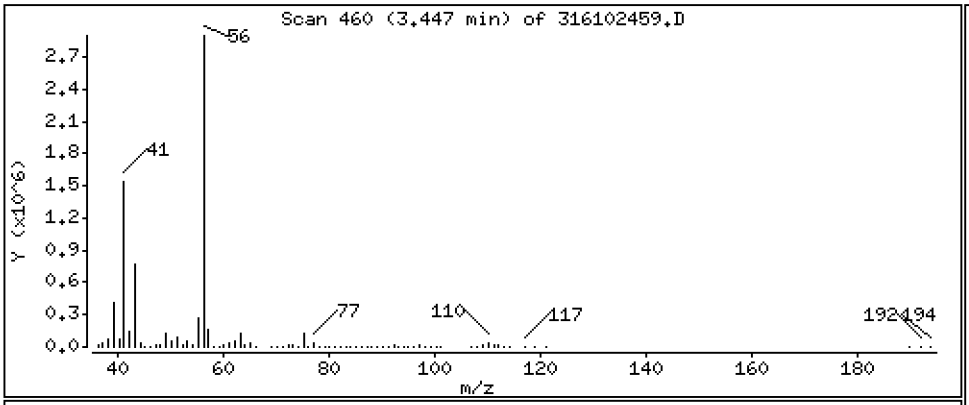
Client ID: Instrument: ms03.i

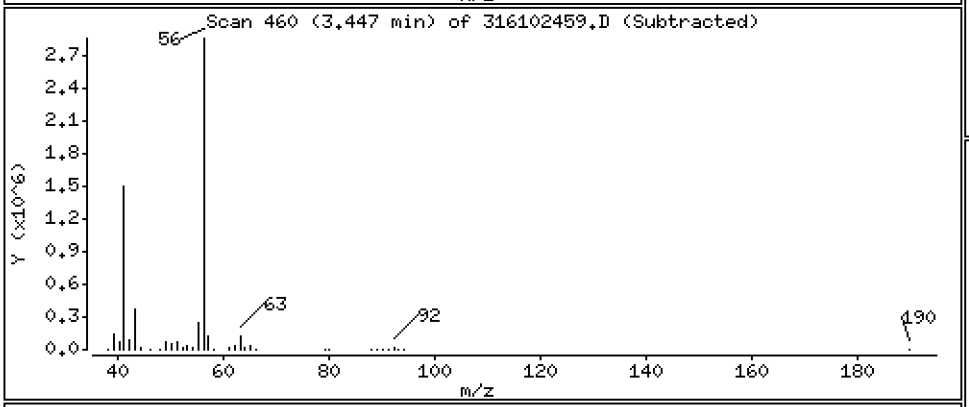
Sample Info: 1239;;1;1;6;;;

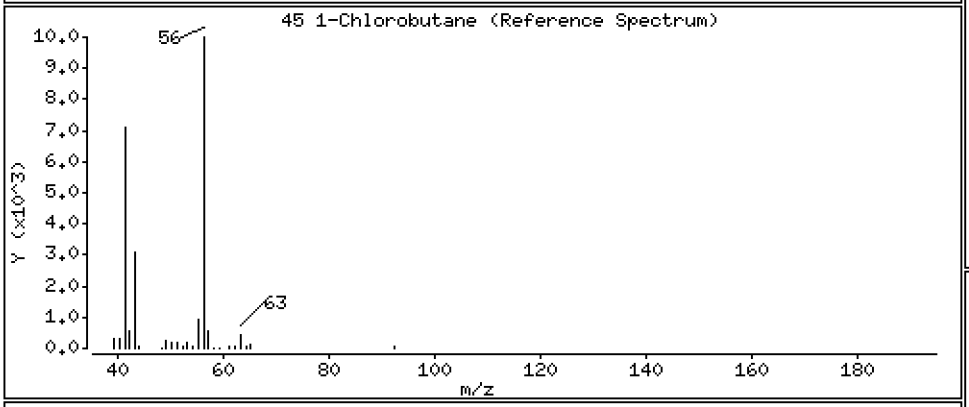
Purge Volume: 5.0 Operator: CJG

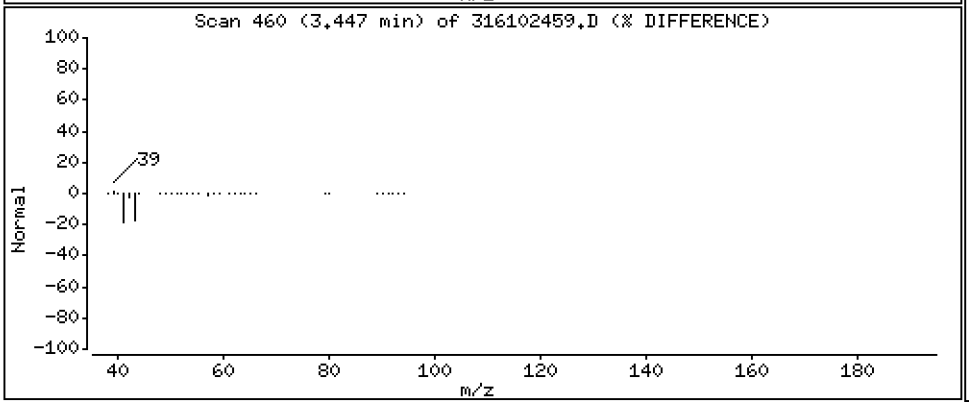
Column phase: DB-VRX Column diameter: 0.25

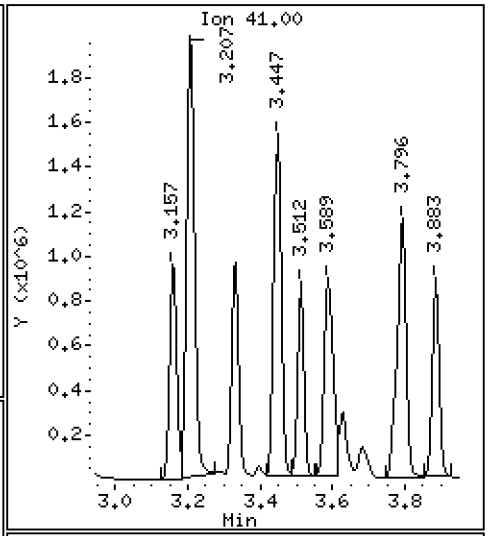
45 1-Chlorobutane Concentration: 200.139 ug/L

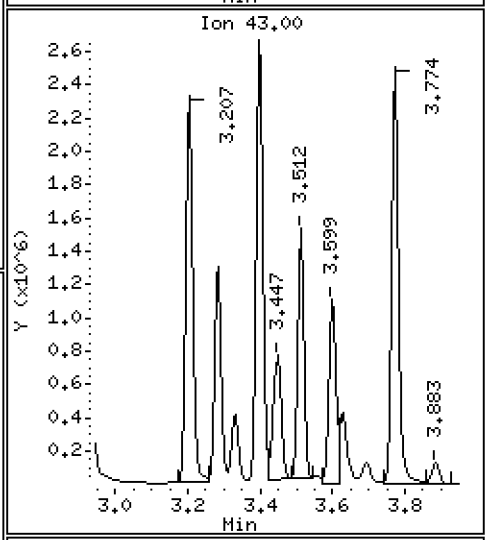


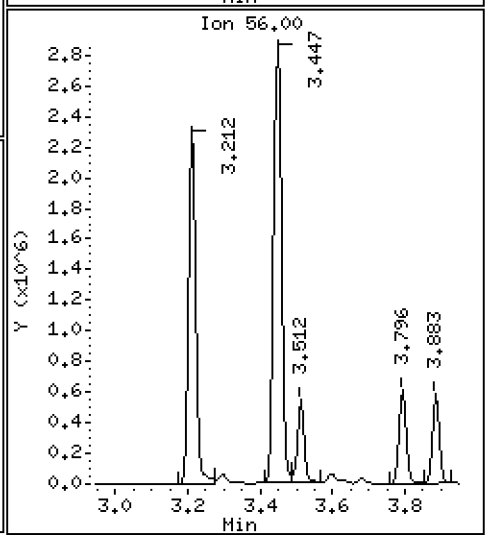












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 53

Date : 25-OCT-2016 01:36

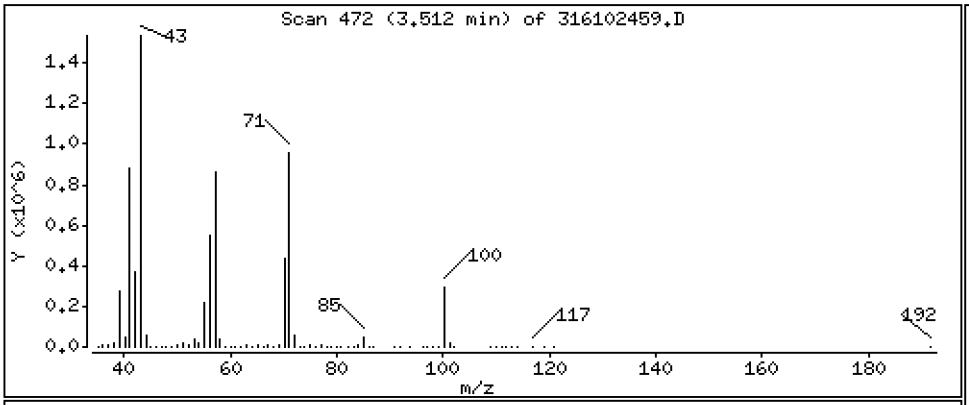
Client ID: Instrument: ms03.i

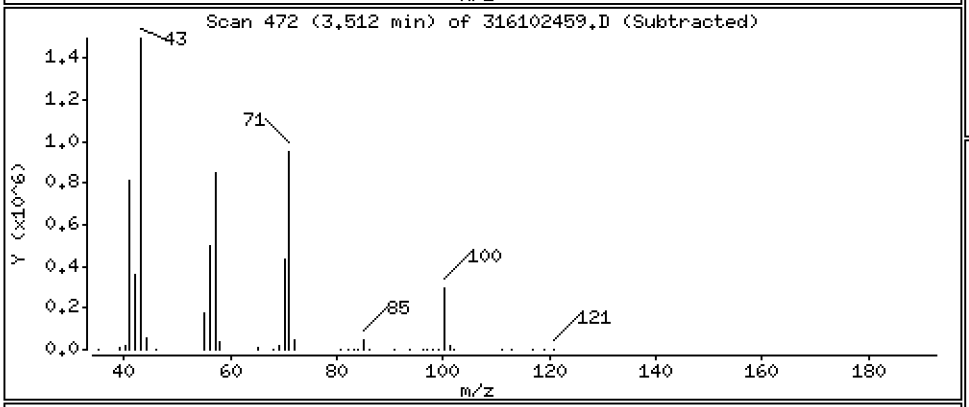
Sample Info: 1239;;1;1;6;;;

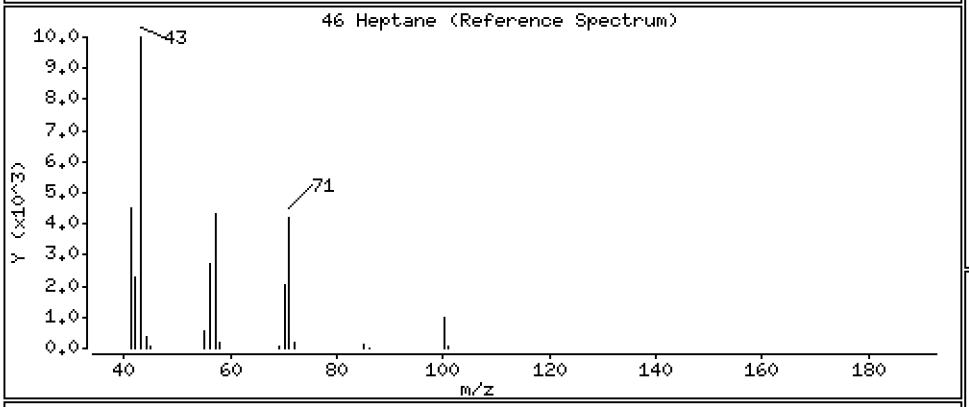
Purge Volume: 5.0 Operator: CJG

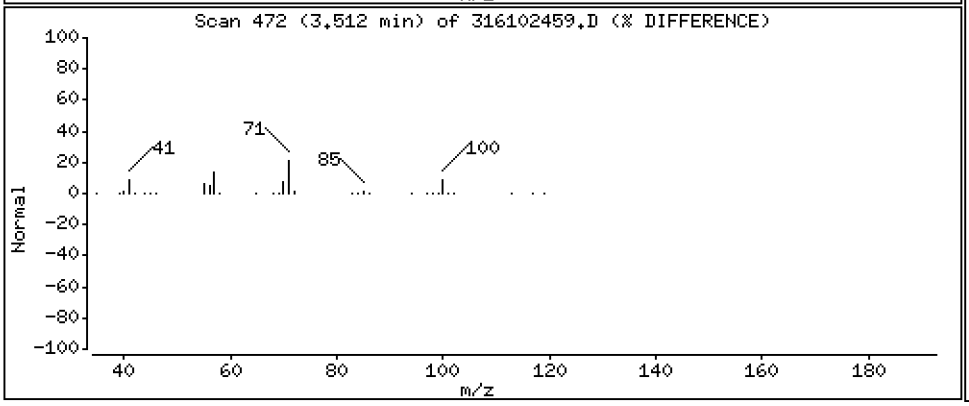
Column phase: DB-VRX Column diameter: 0.25

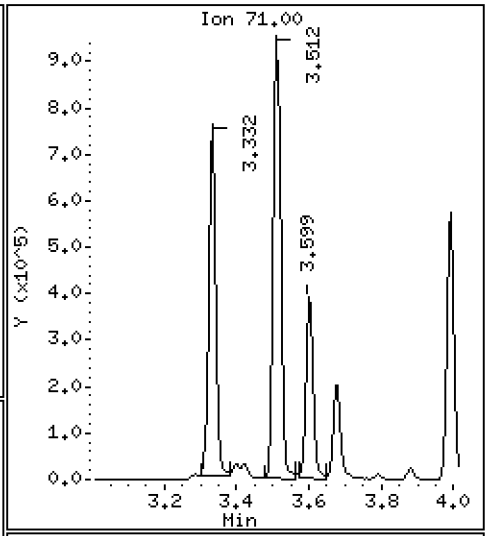
46 Heptane Concentration: 199.827 ug/L

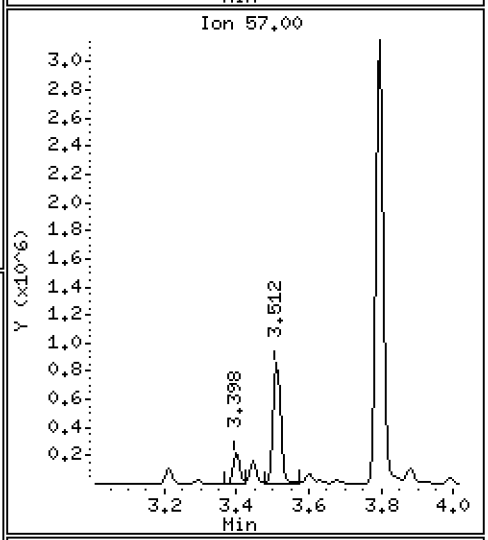


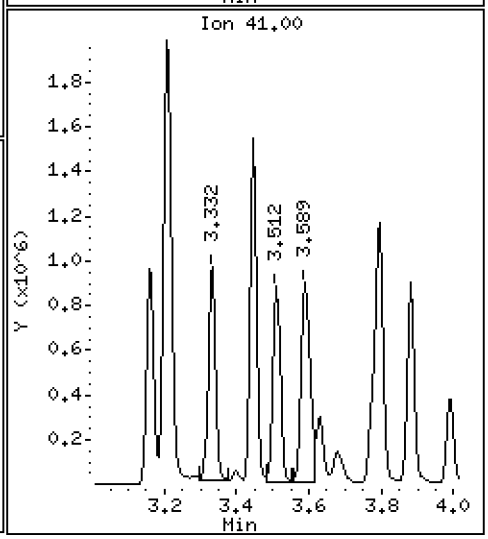












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 54

Date : 25-OCT-2016 01:36

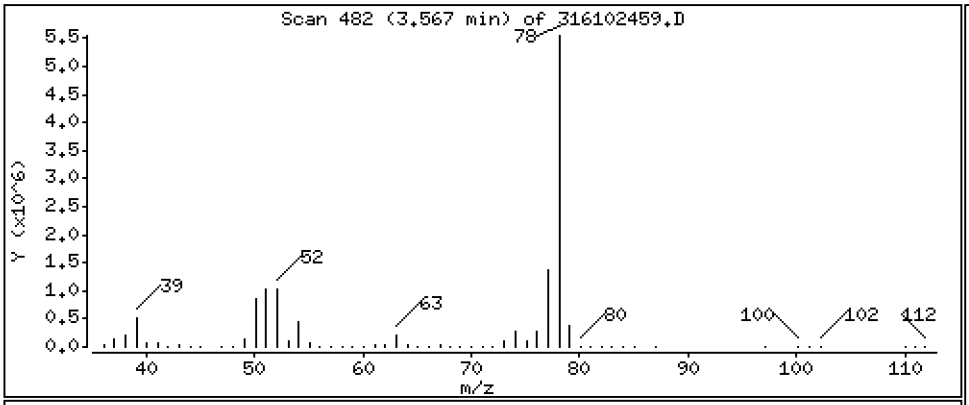
Client ID: Instrument: ms03.i

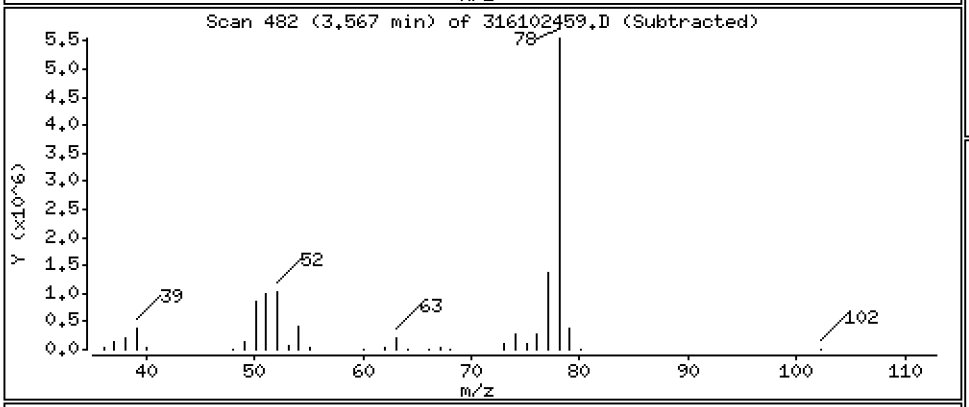
Sample Info: 1239;;1;1;6;;;

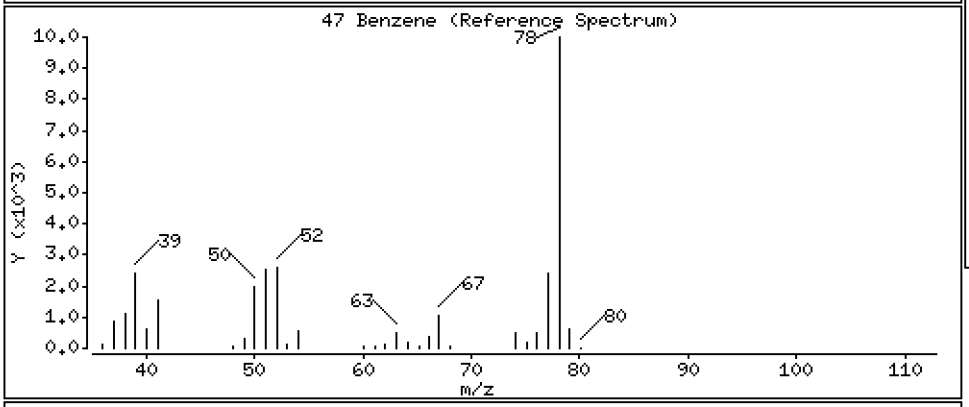
Purge Volume: 5.0 Operator: CJG

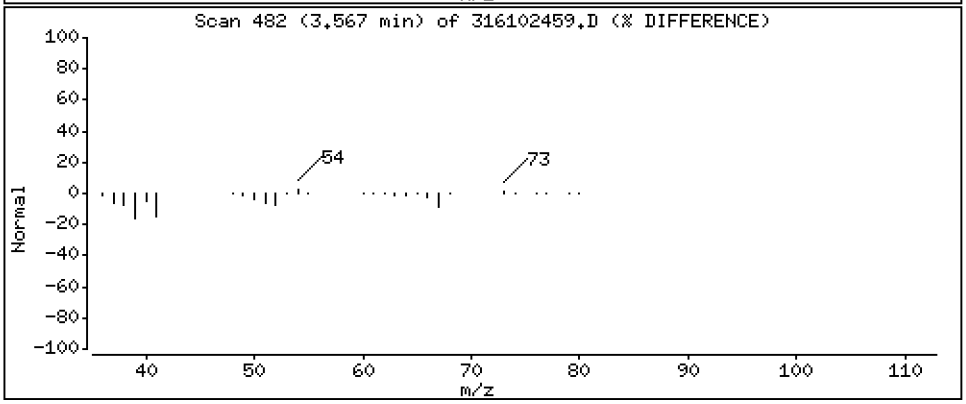
Column phase: DB-VRX Column diameter: 0.25

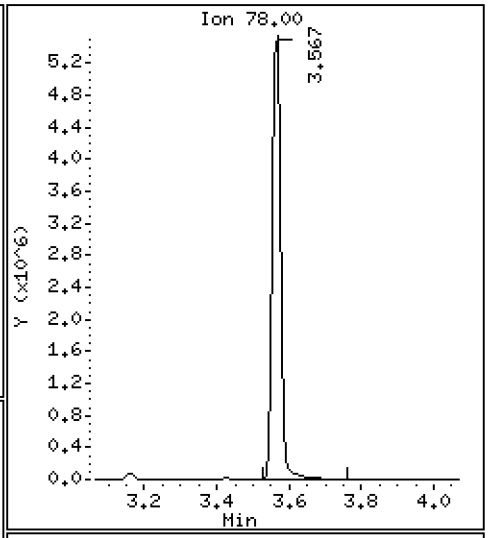
47 Benzene Concentration: 200.077 ug/L

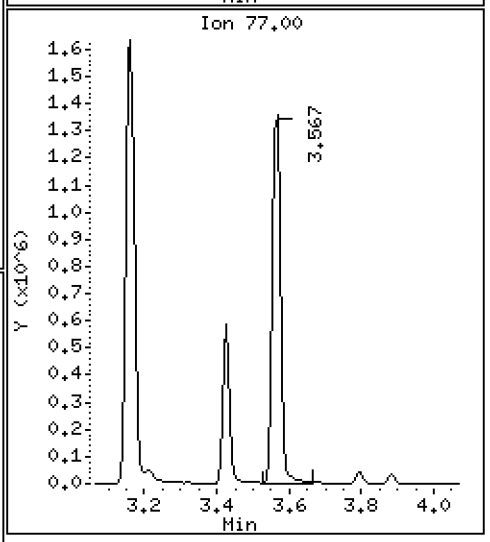












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 55

Date : 25-OCT-2016 01:36

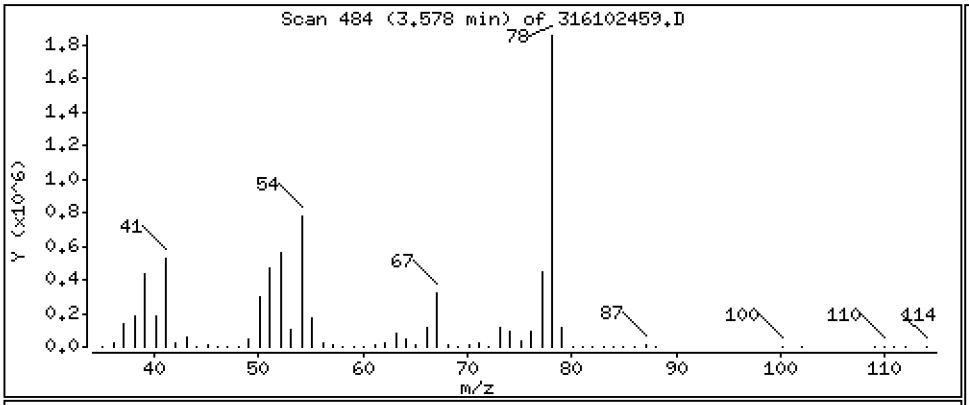
Client ID: Instrument: ms03.i

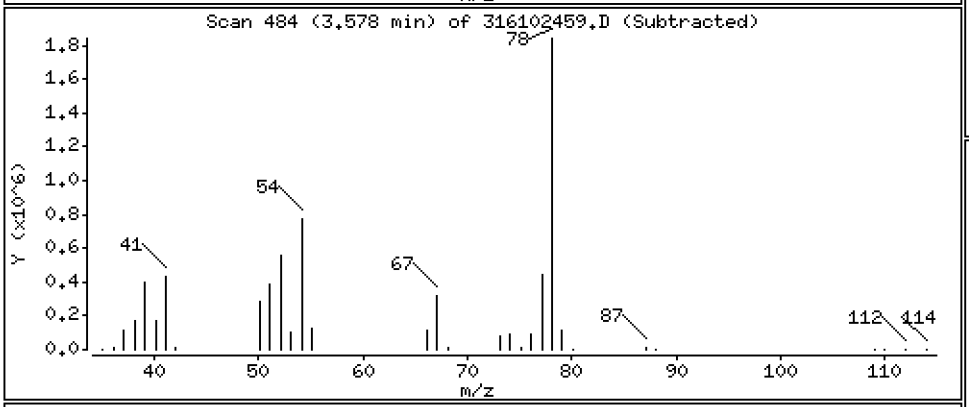
Sample Info: 1239;;1;1;6;;;

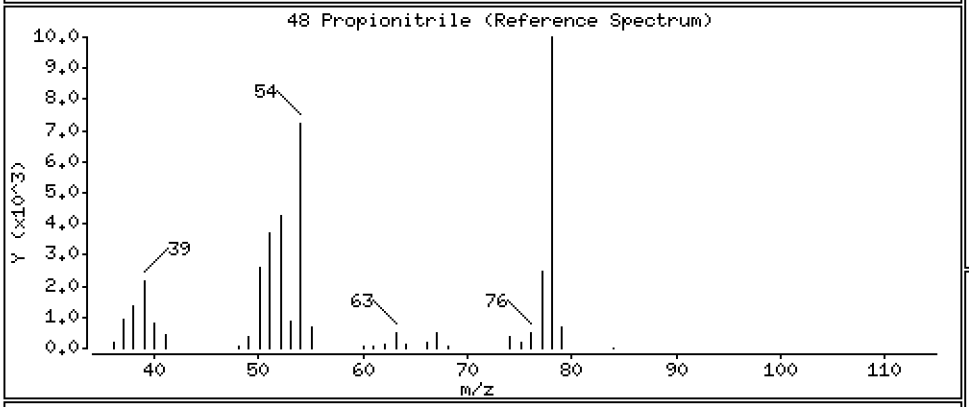
Purge Volume: 5.0 Operator: CJG

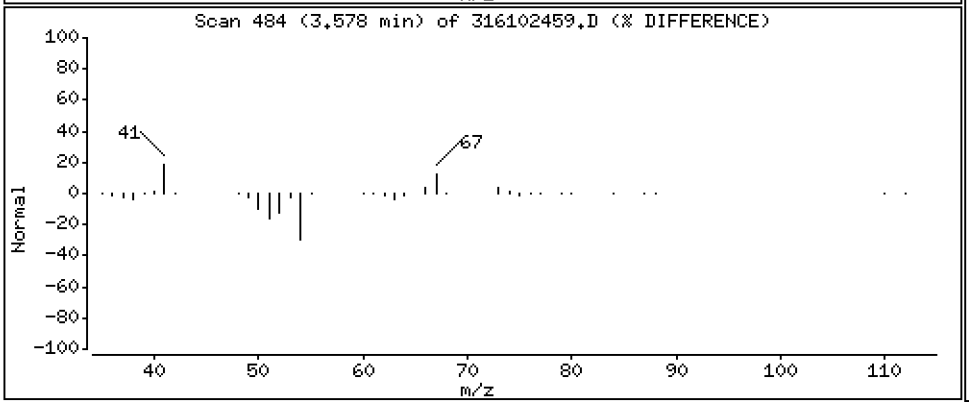
Column phase: DB-VRX Column diameter: 0.25

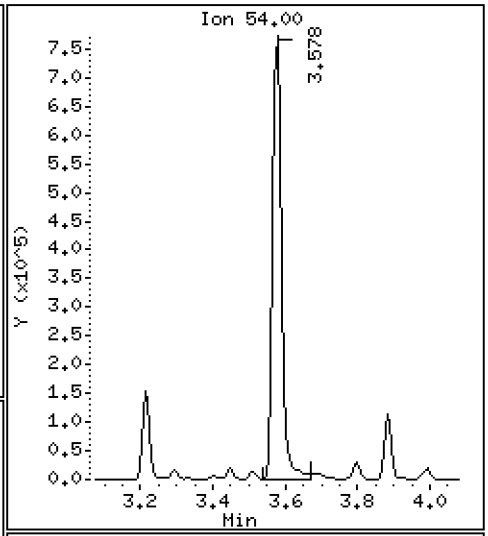
48 Propionitrile Concentration: 1000.96 ug/L

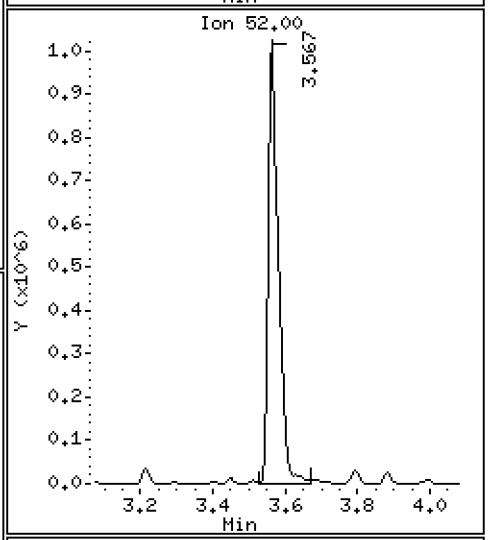


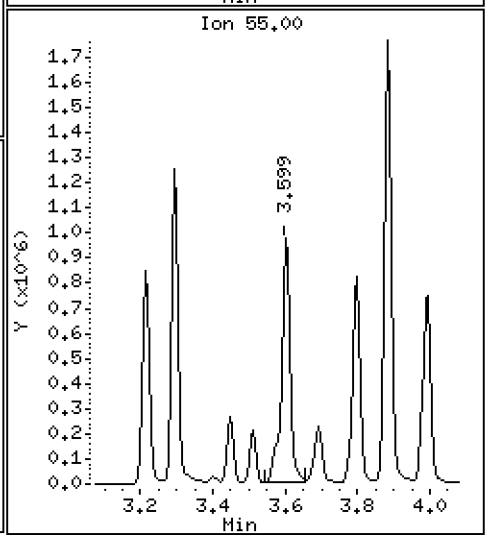












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 56

Date : 25-OCT-2016 01:36

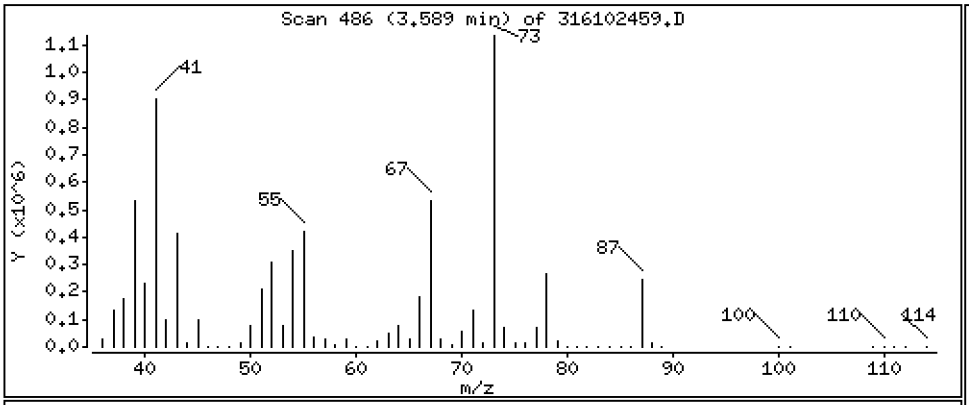
Client ID: Instrument: ms03.i

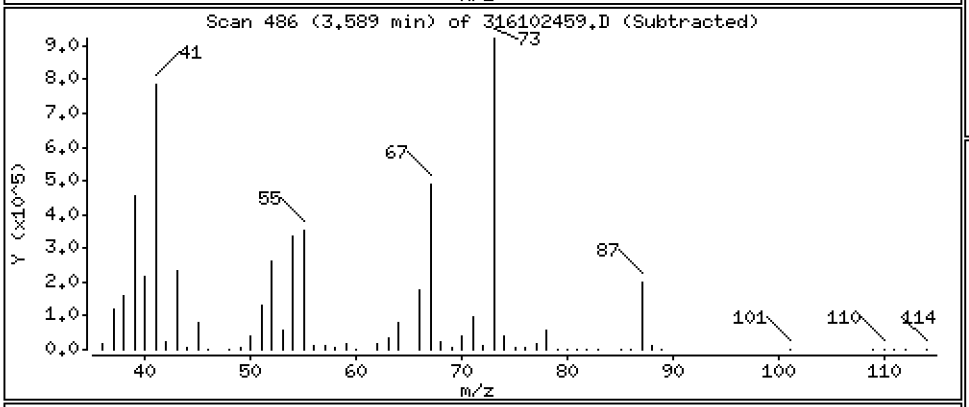
Sample Info: 1239;;1;1;6;;;

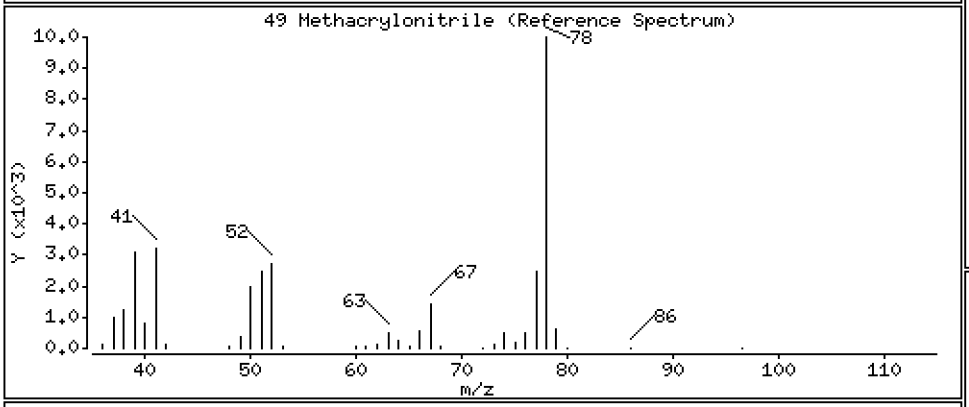
Purge Volume: 5.0 Operator: CJG

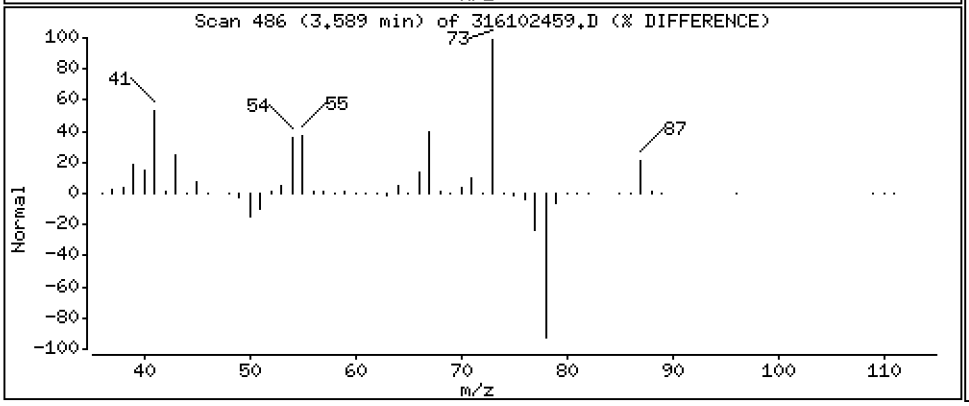
Column phase: DB-VRX Column diameter: 0.25

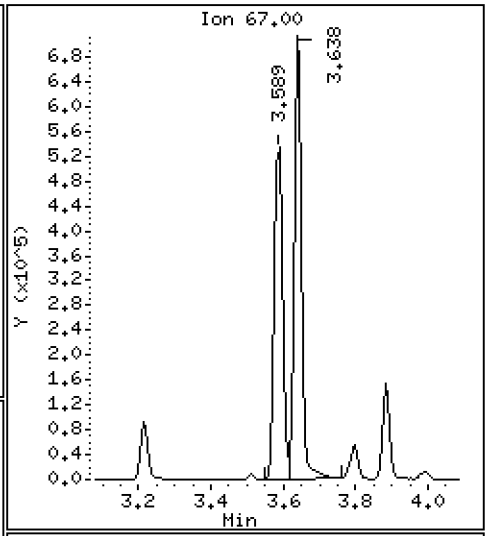
49 Methacrylonitrile Concentration: 200.167 ug/L

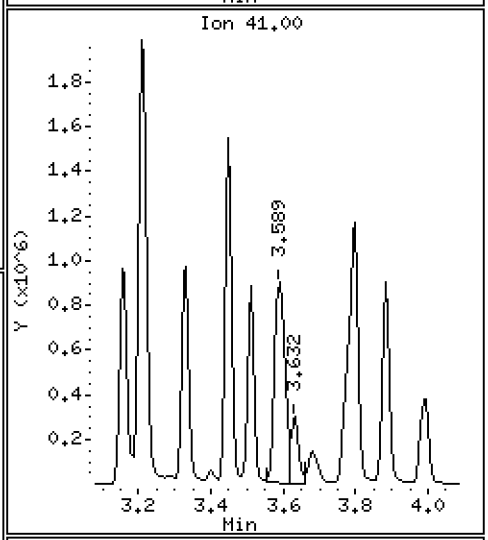


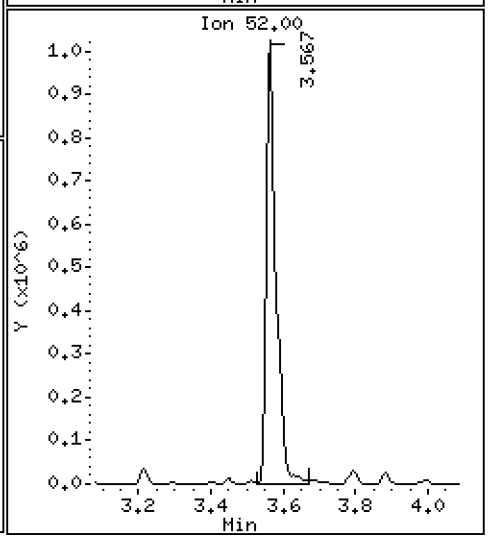












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 57

Date : 25-OCT-2016 01:36

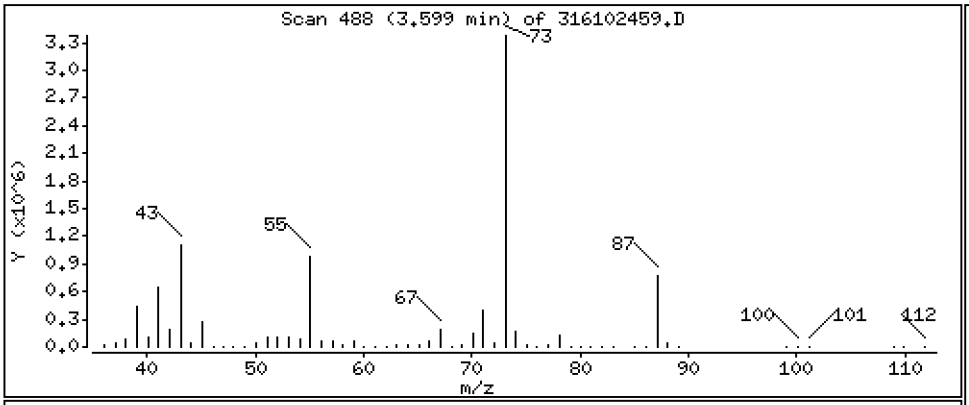
Client ID: Instrument: ms03.i

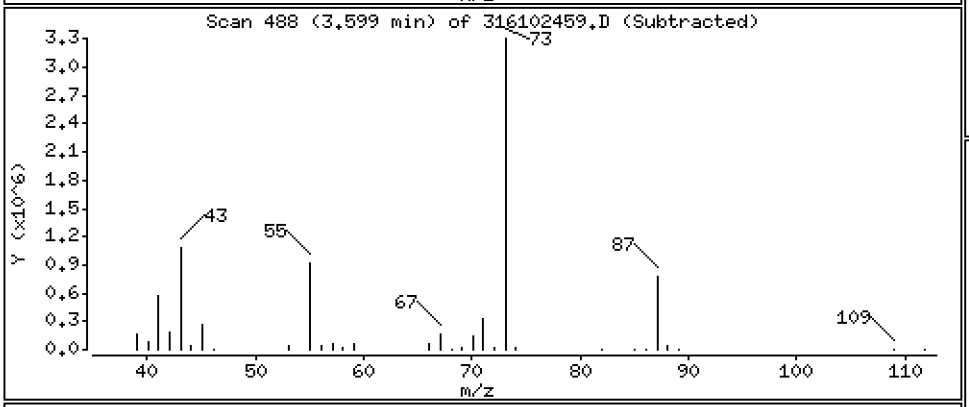
Sample Info: 1239;;1;1;6;;;

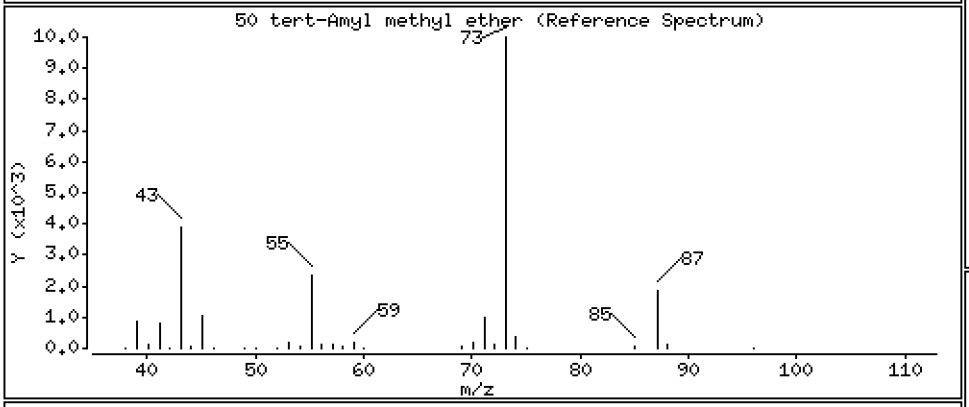
Purge Volume: 5.0 Operator: CJG

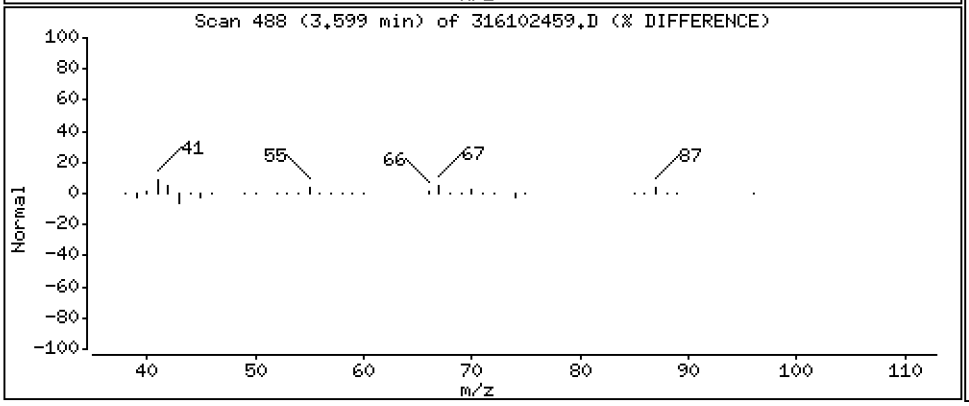
Column phase: DB-VRX Column diameter: 0.25

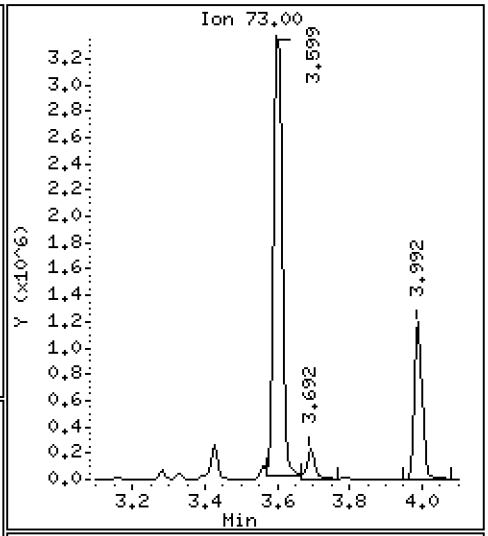
50 tert-Amyl methyl ether Concentration: 199.900 ug/L

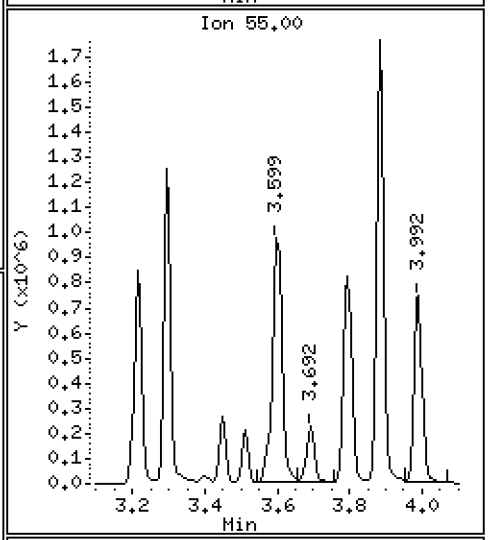


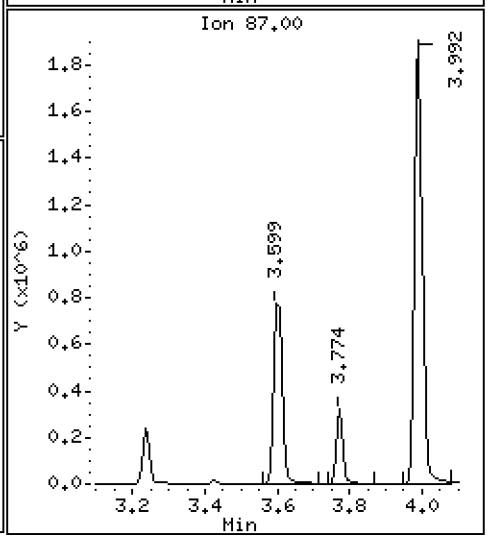












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 58

Date : 25-OCT-2016 01:36

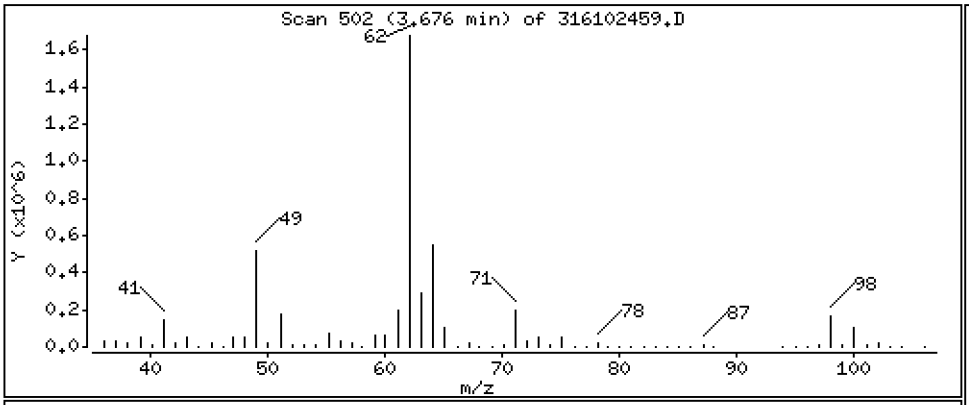
Client ID: Instrument: ms03.i

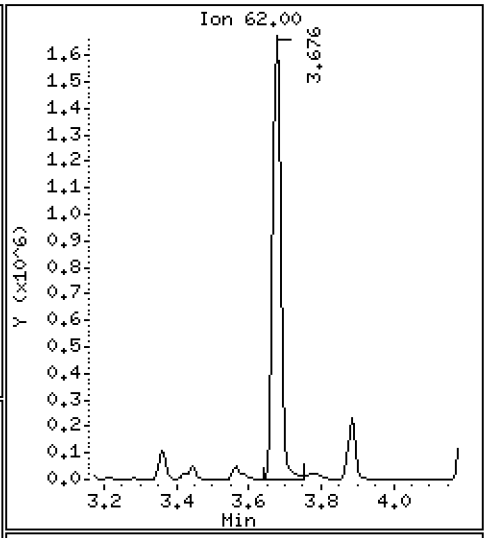
Sample Info: 1239;;1;1;6;;;

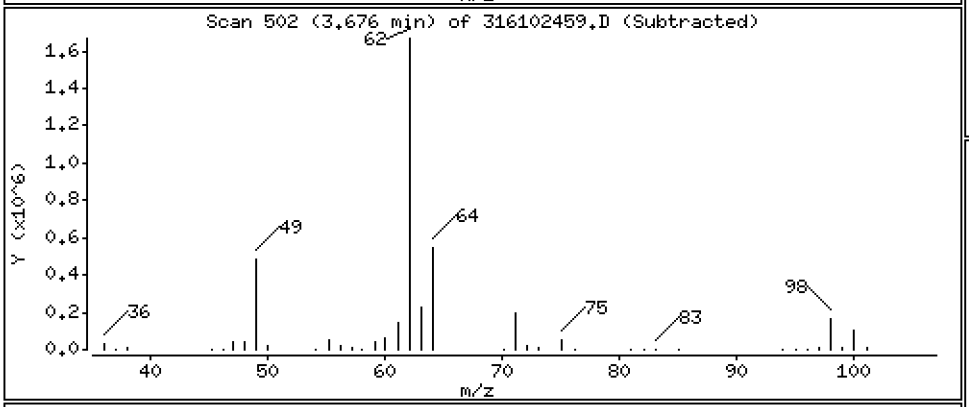
Purge Volume: 5.0 Operator: CJG

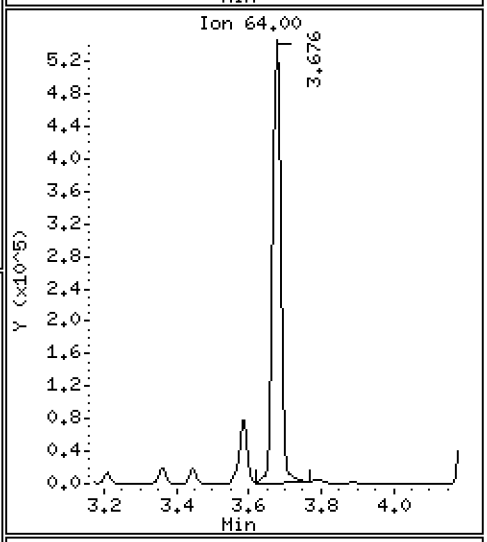
Column phase: DB-VRX Column diameter: 0.25

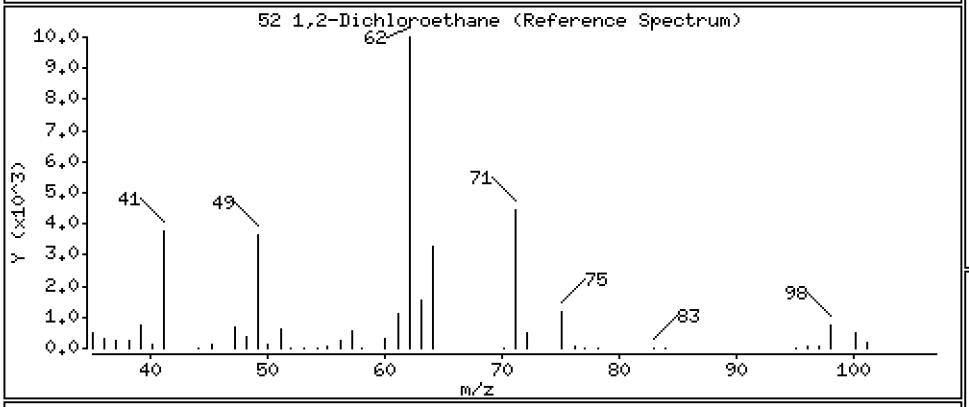
52 1,2-Dichloroethane Concentration: 200.008 ug/L

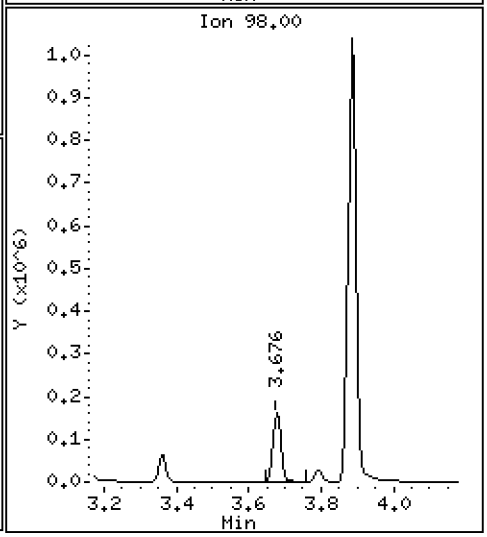


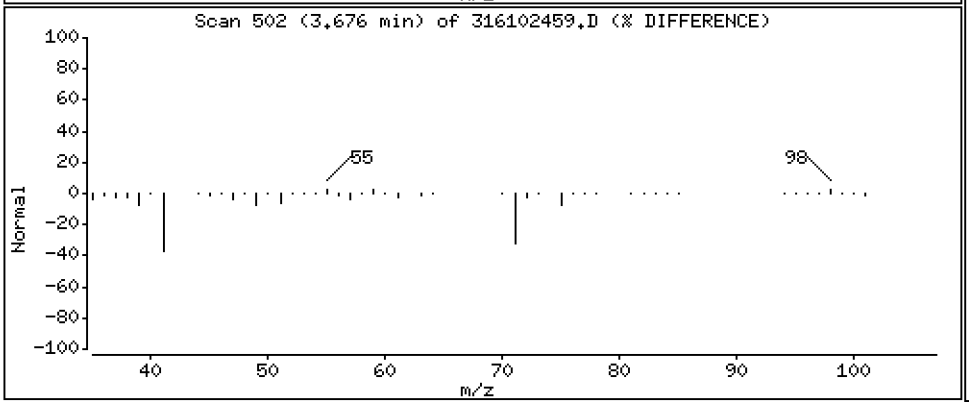












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 59

Date : 25-OCT-2016 01:36

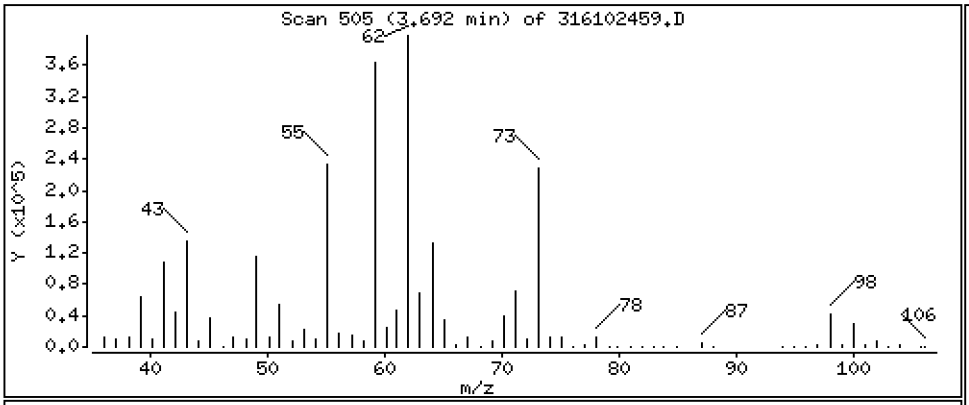
Client ID: Instrument: ms03.i

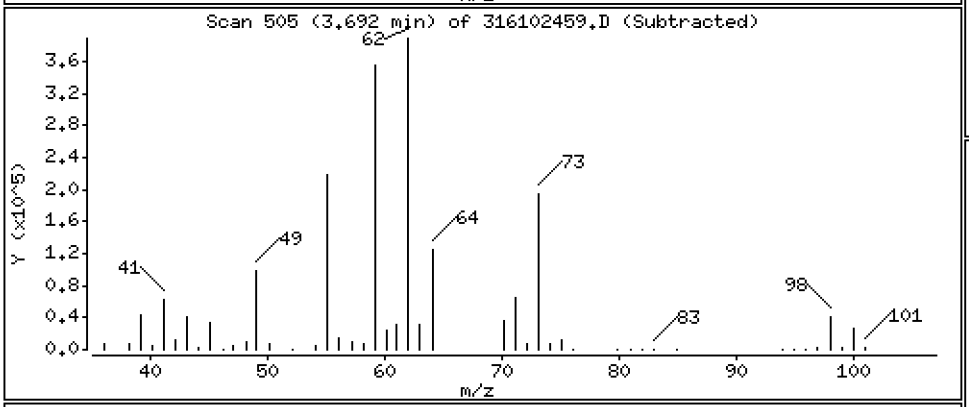
Sample Info: 1239;;1;1;6;;;

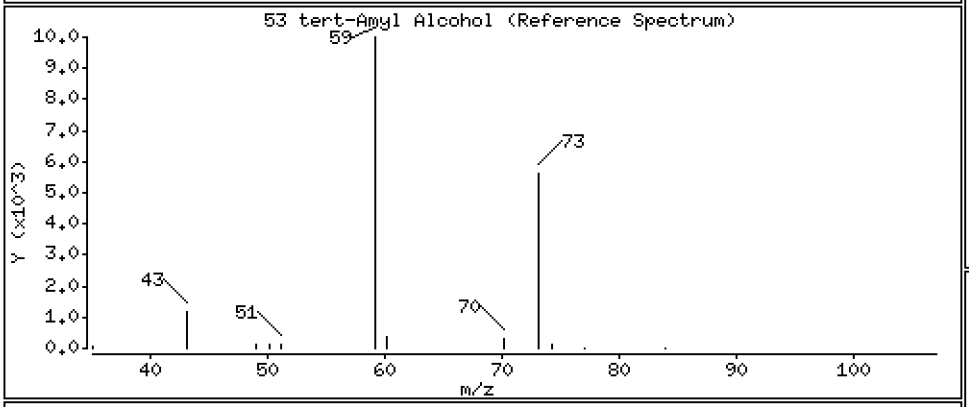
Purge Volume: 5.0 Operator: CJG

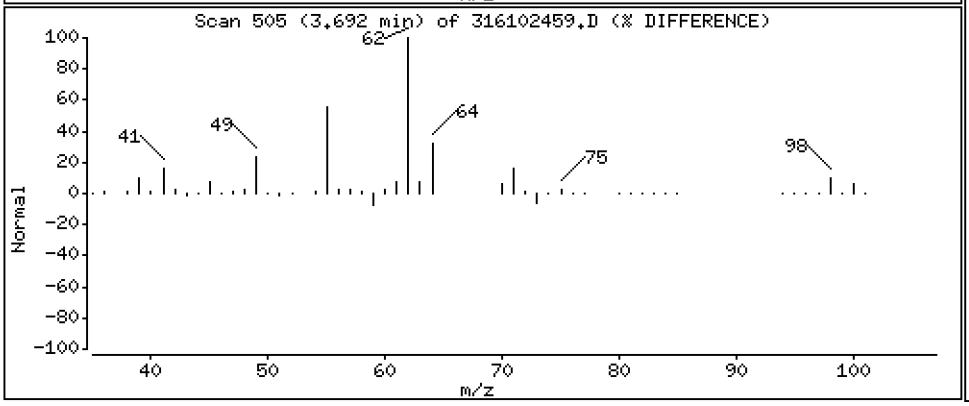
Column phase: DB-VRX Column diameter: 0.25

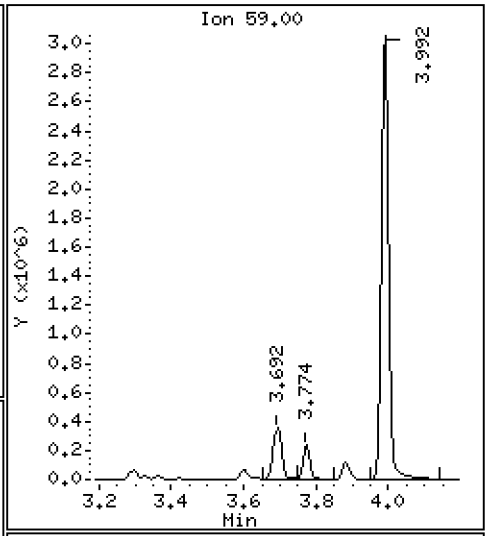
53 tert-Amyl Alcohol Concentration: 1000.25 ug/L

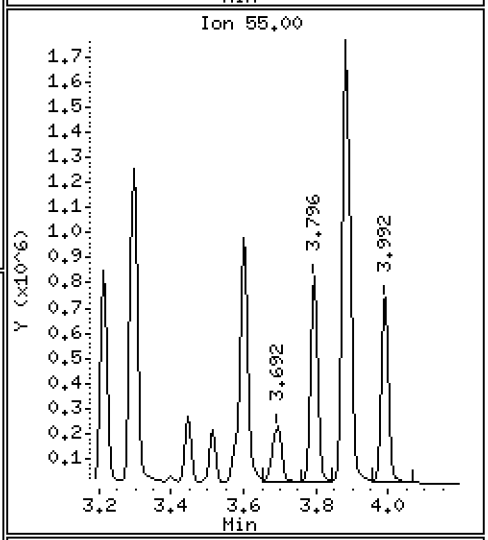


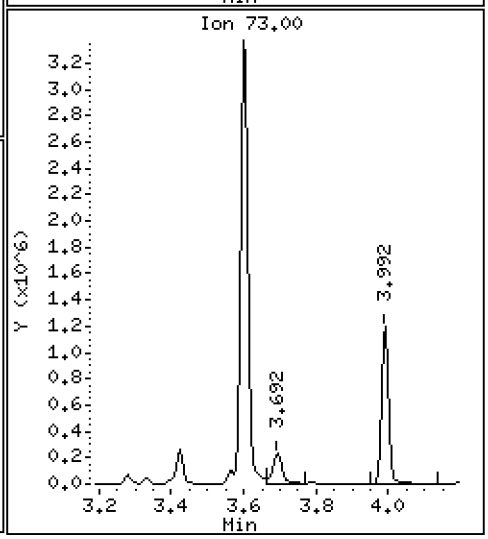












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 60

Date : 25-OCT-2016 01:36

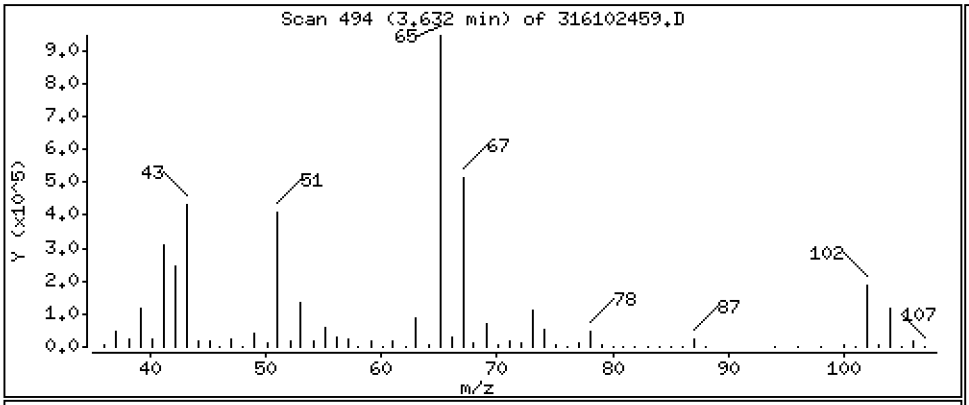
Client ID: Instrument: ms03.i

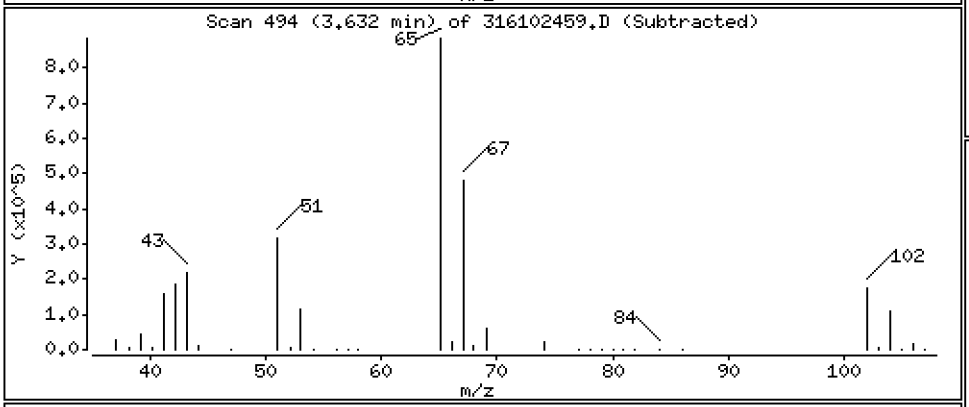
Sample Info: 1239;;1;1;6;;;

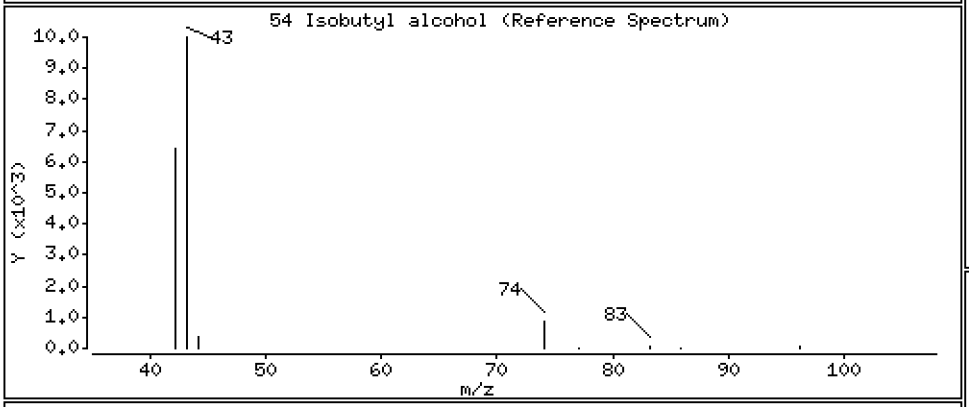
Purge Volume: 5.0 Operator: CJG

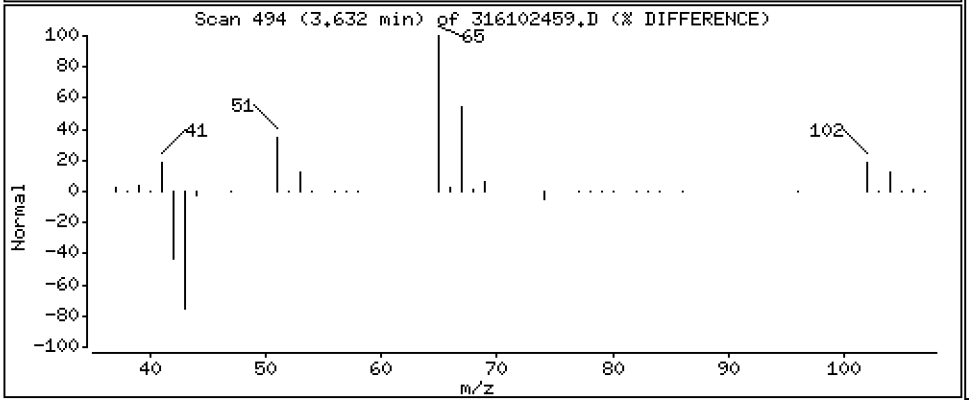
Column phase: DB-VRX Column diameter: 0.25

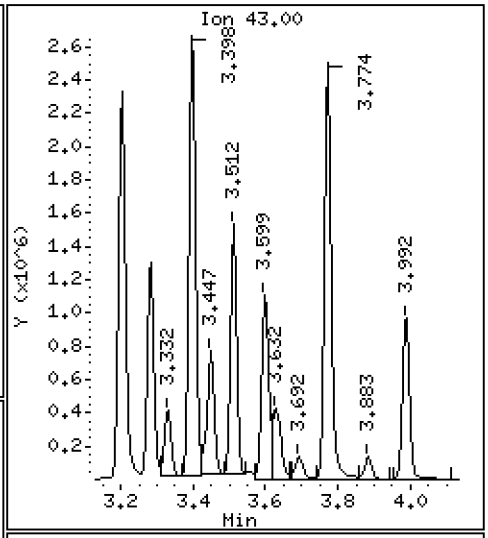
54 Isobutyl alcohol Concentration: 2004.48 ug/L

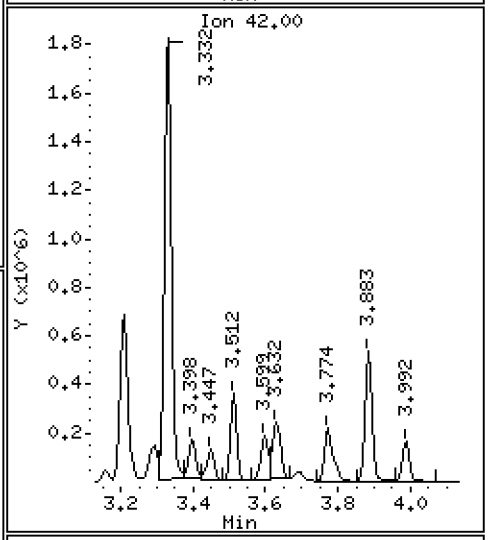


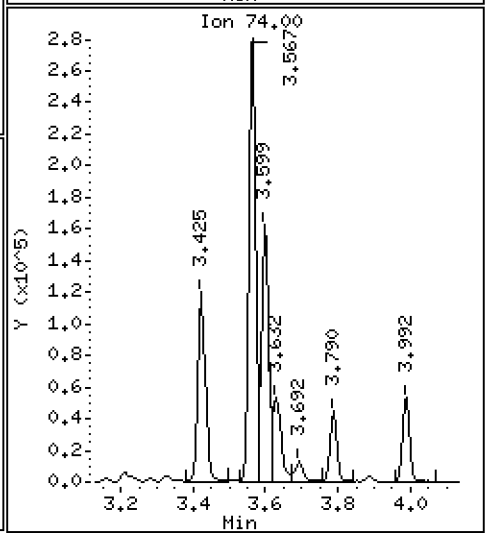












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 61

Date : 25-OCT-2016 01:36

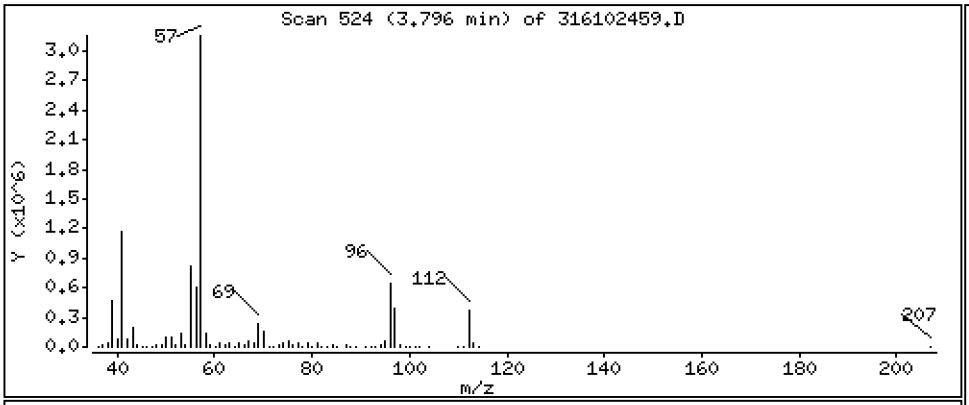
Client ID: Instrument: ms03.i

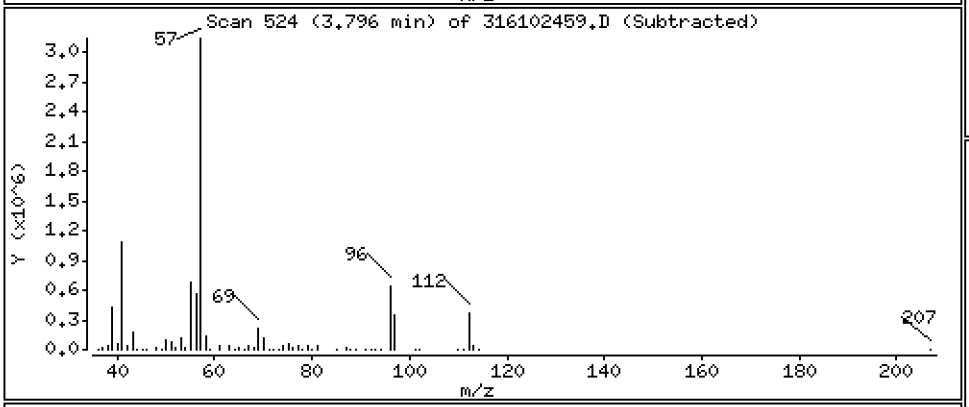
Sample Info: 1239;;1;1;6;;;

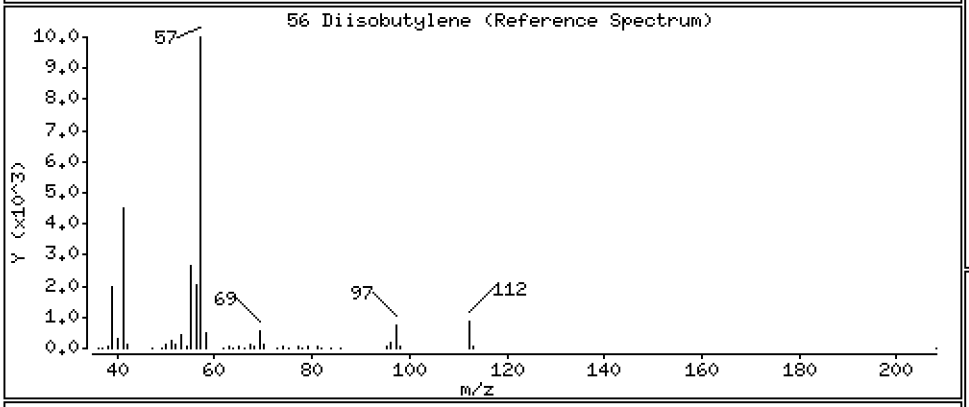
Purge Volume: 5.0 Operator: CJG

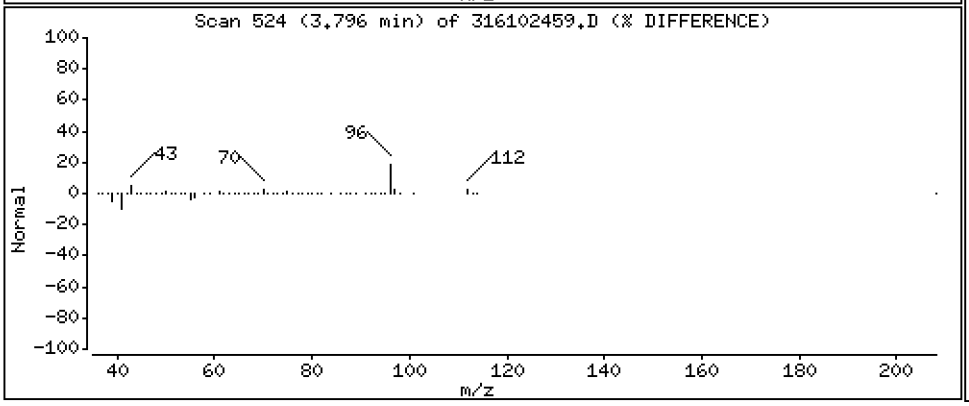
Column phase: DB-VRX Column diameter: 0.25

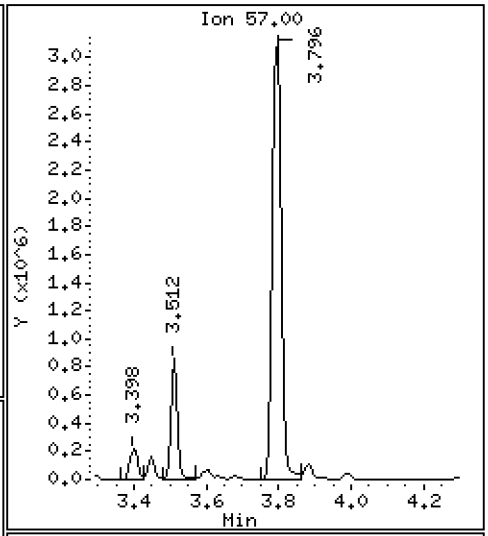
56 Diisobutylene Concentration: 200.082 ug/L

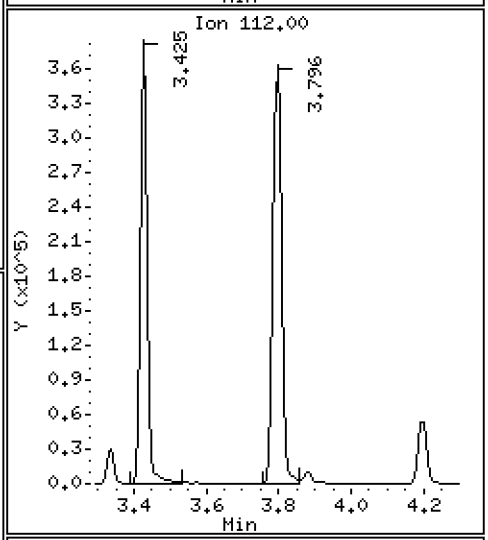


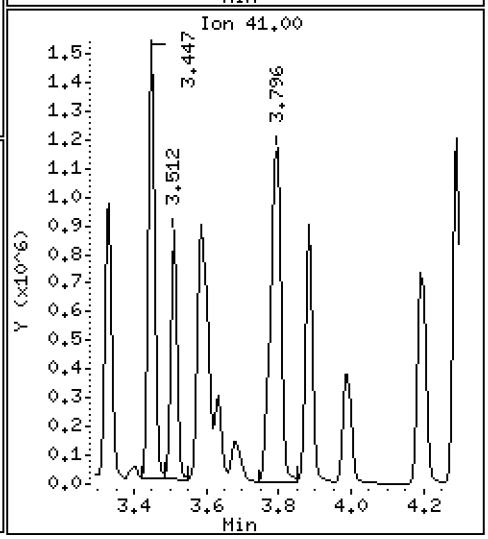












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 62

Date : 25-OCT-2016 01:36

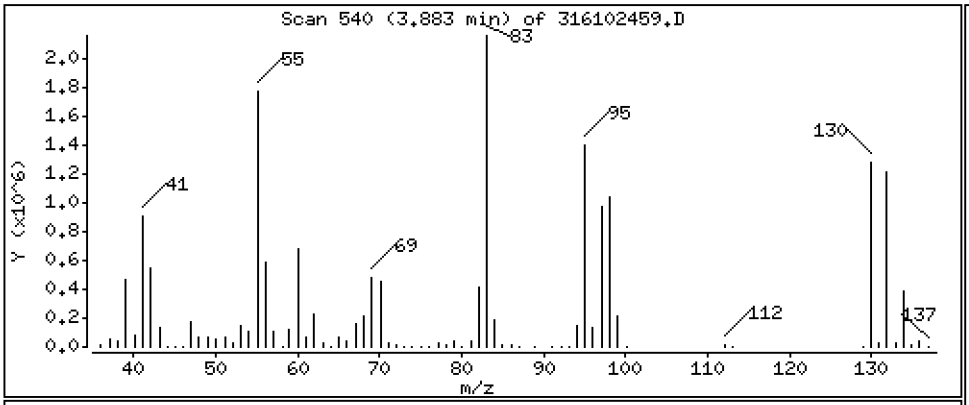
Client ID: Instrument: ms03.i

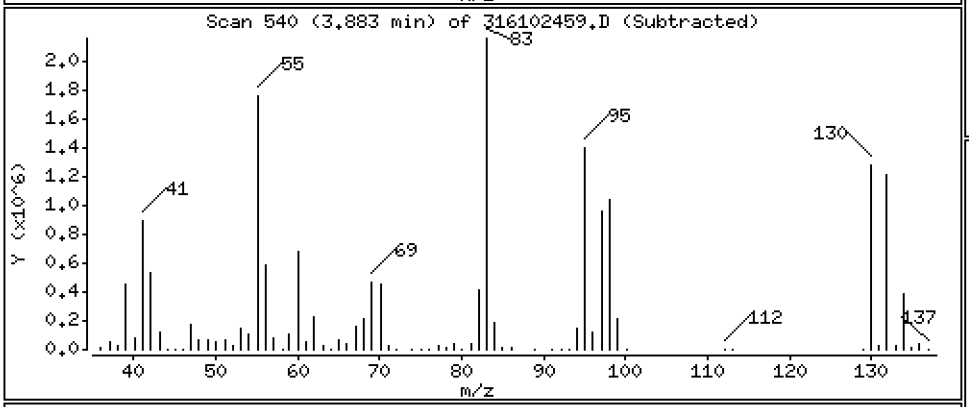
Sample Info: 1239;;1;1;6;;;

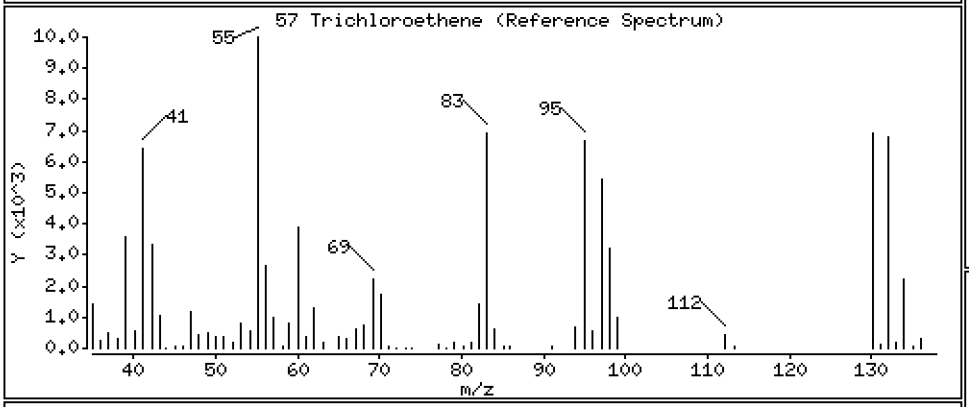
Purge Volume: 5.0 Operator: CJG

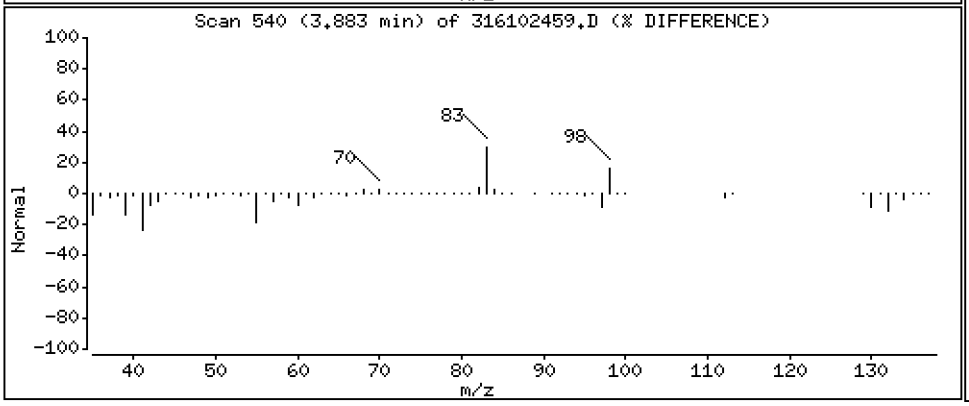
Column phase: DB-VRX Column diameter: 0.25

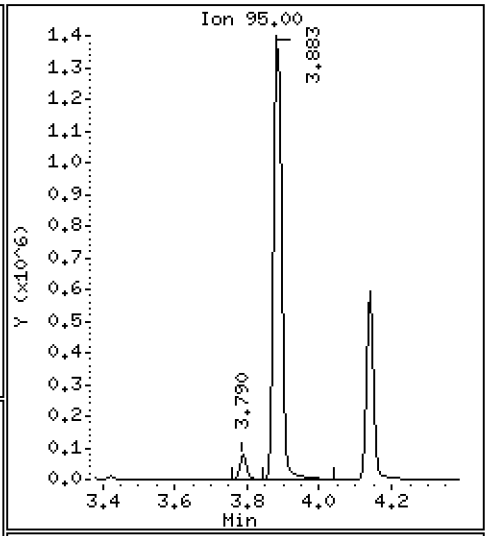
57 Trichloroethene Concentration: 200.074 ug/L

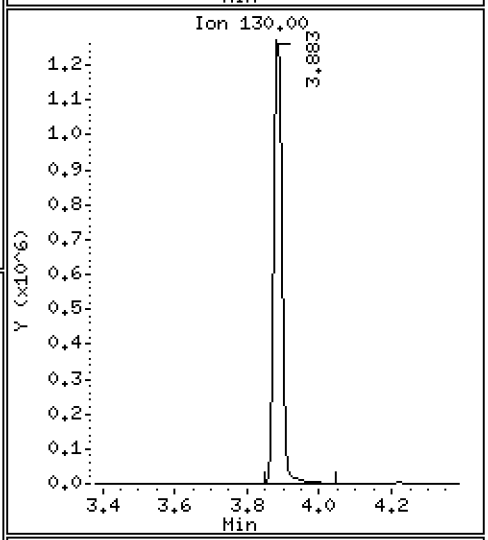


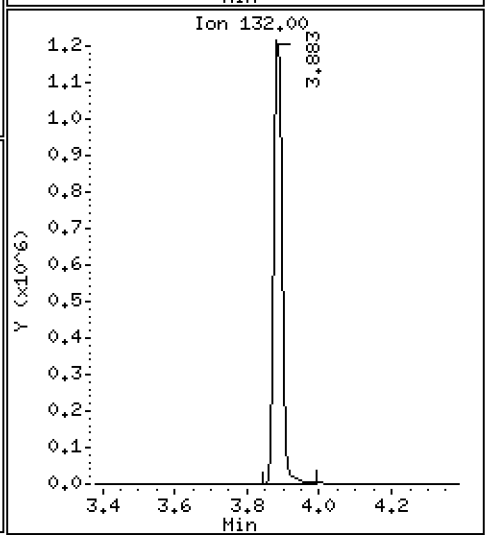












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 63

Date : 25-OCT-2016 01:36

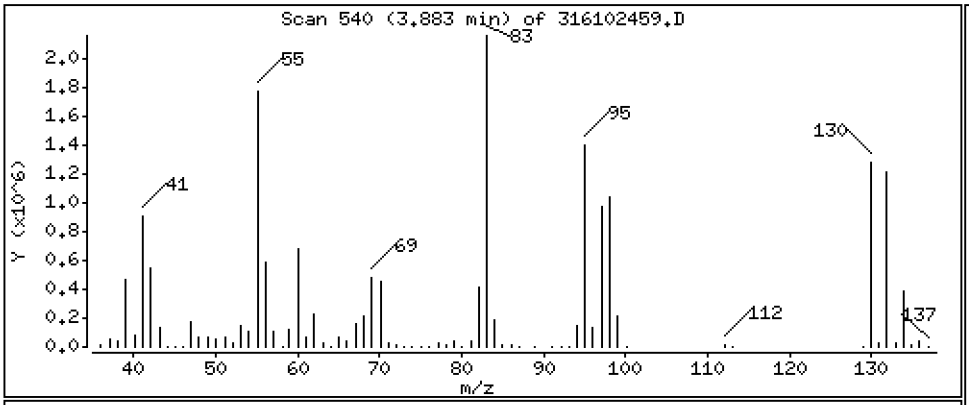
Client ID: Instrument: ms03.i

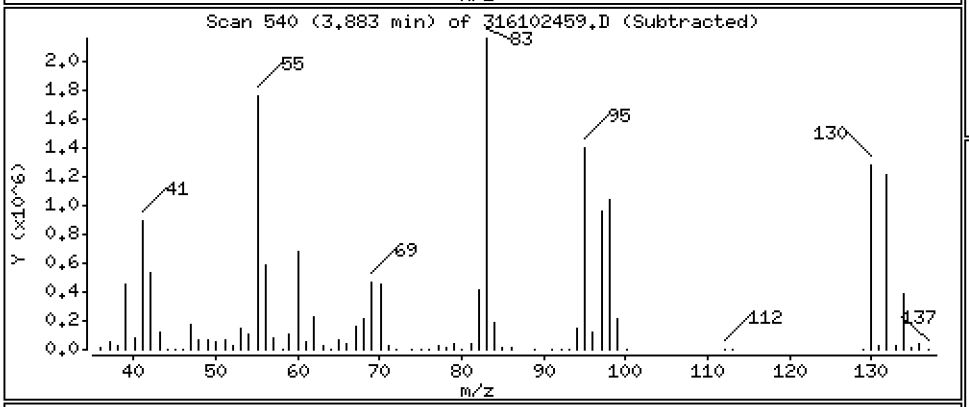
Sample Info: 1239;;1;1;6;;;

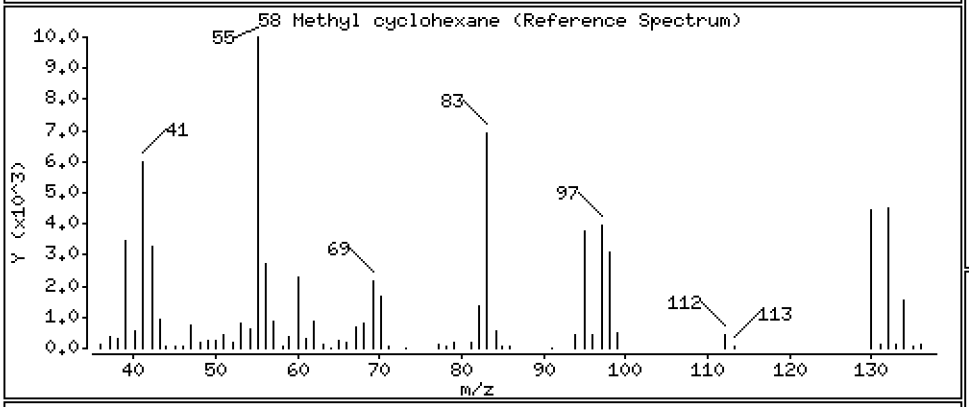
Purge Volume: 5.0 Operator: CJG

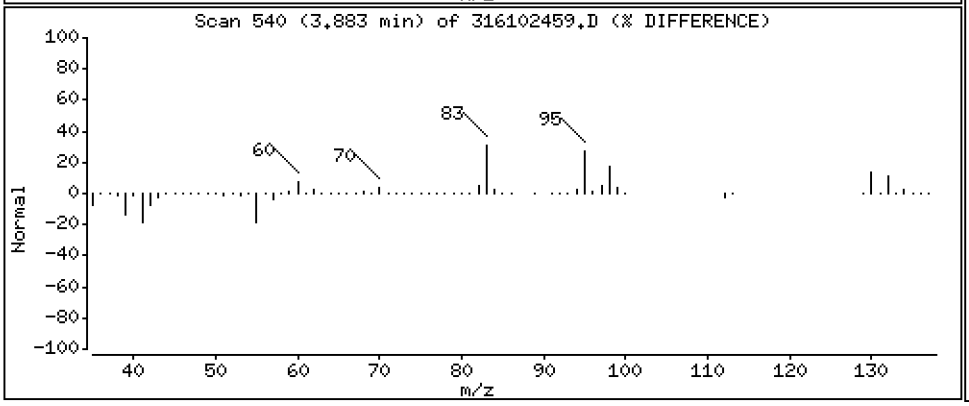
Column phase: DB-VRX Column diameter: 0.25

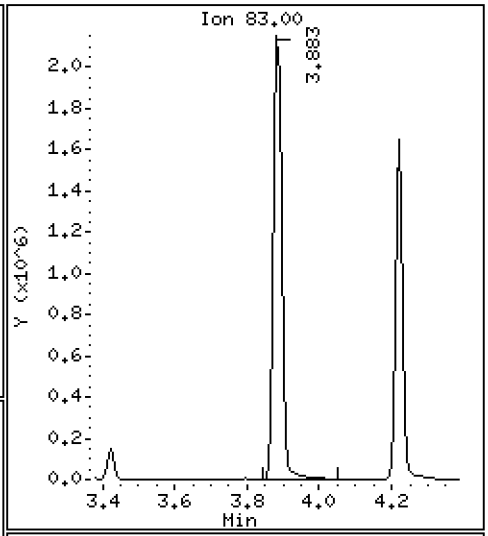
58 Methyl cyclohexane Concentration: 200.131 ug/L

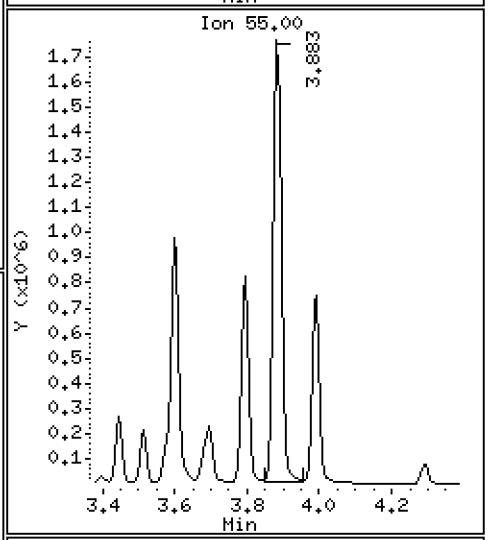


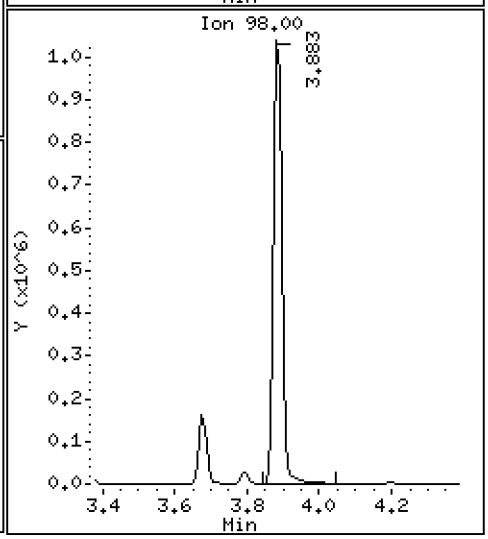












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 64

Date : 25-OCT-2016 01:36

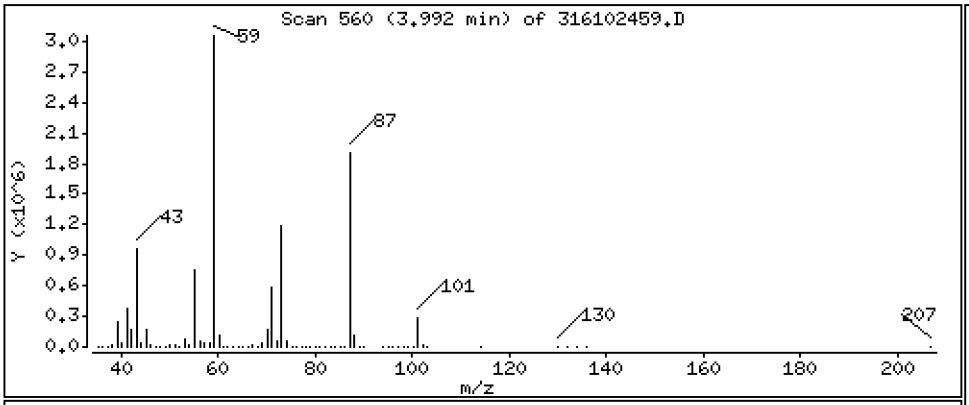
Client ID: Instrument: ms03.i

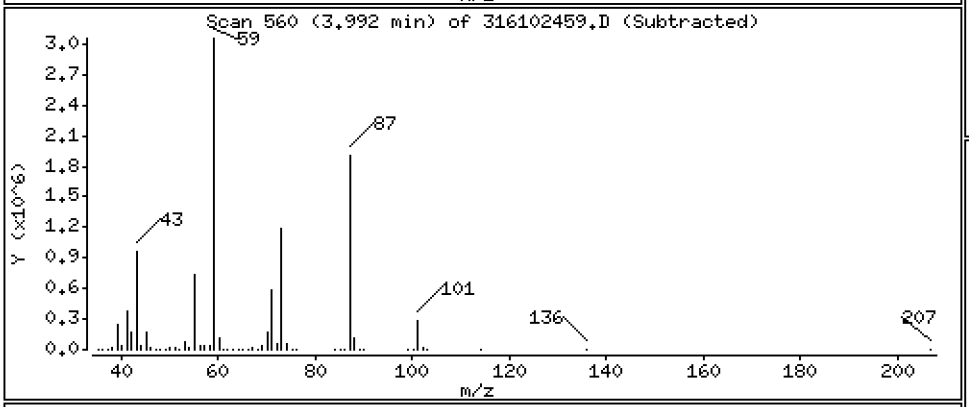
Sample Info: 1239;;1;1;6;;;

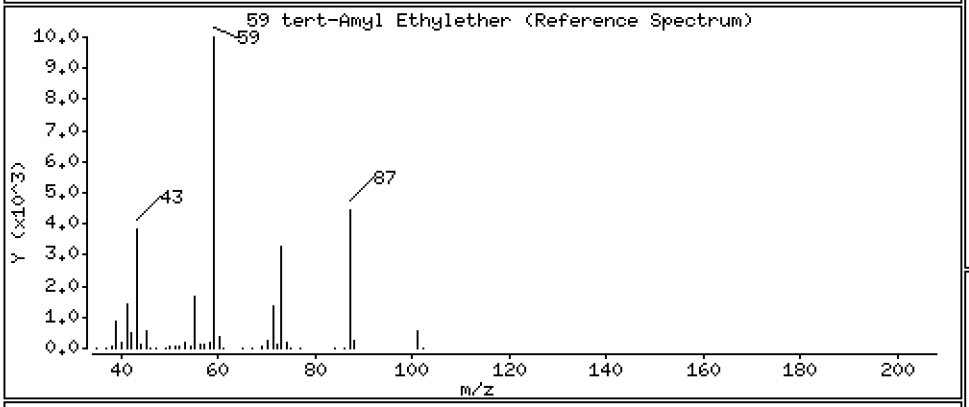
Purge Volume: 5.0 Operator: CJG

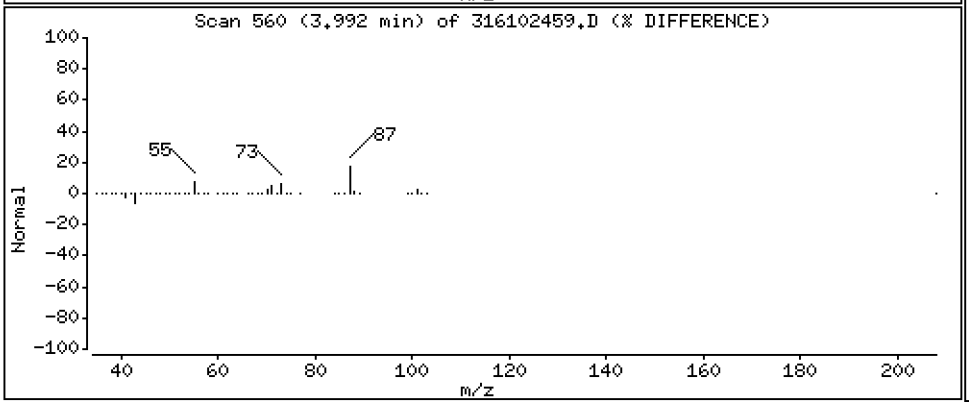
Column phase: DB-VRX Column diameter: 0.25

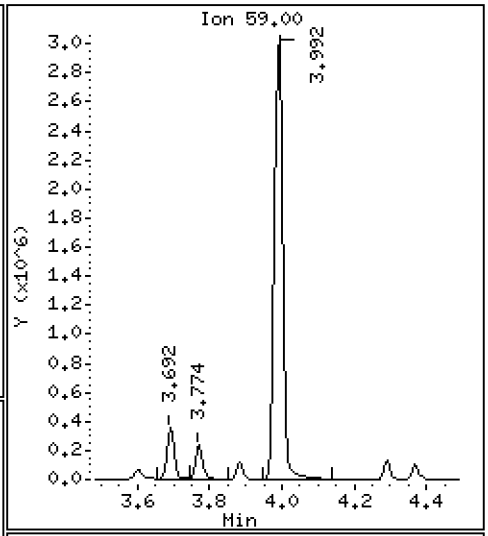
59 tert-Amyl Ethylether Concentration: 199.800 ug/L

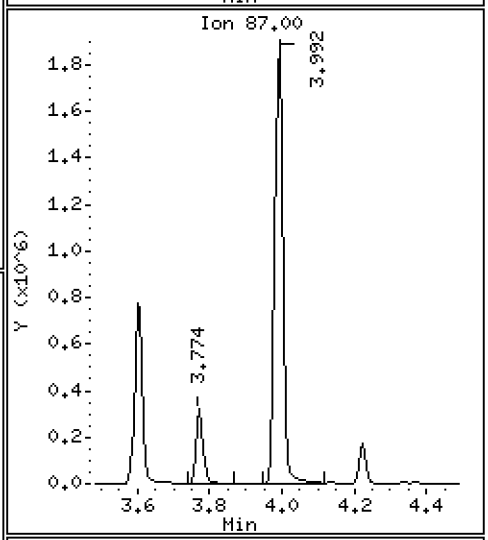


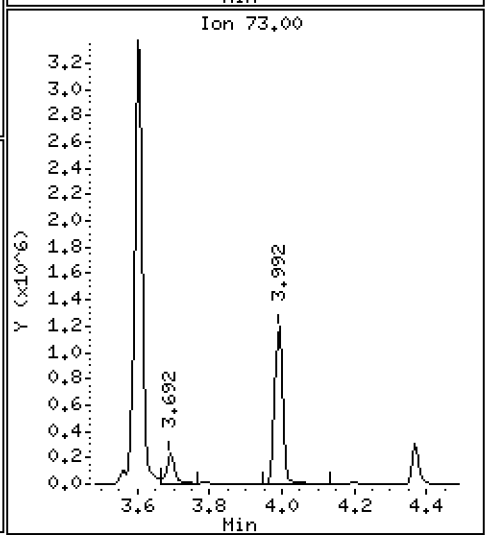












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 65

Date : 25-OCT-2016 01:36

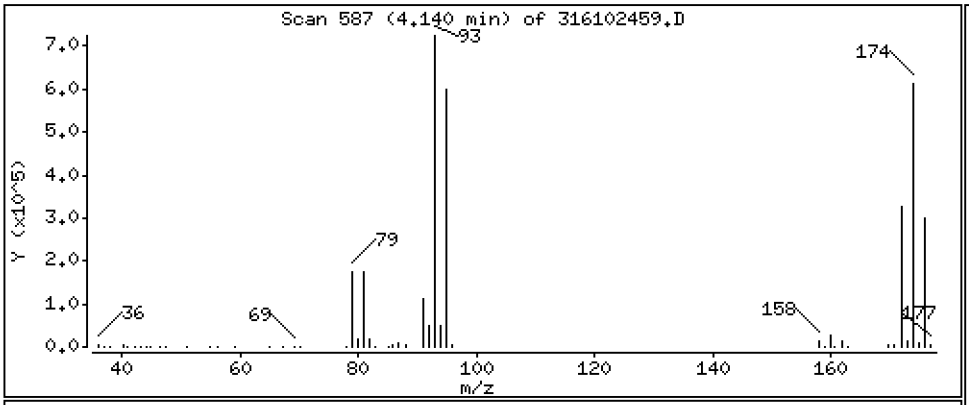
Client ID: Instrument: ms03.i

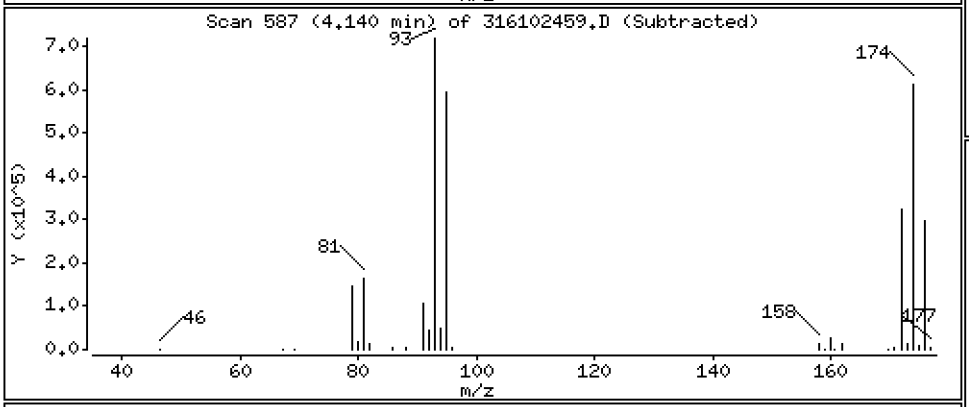
Sample Info: 1239;;1;1;6;;;

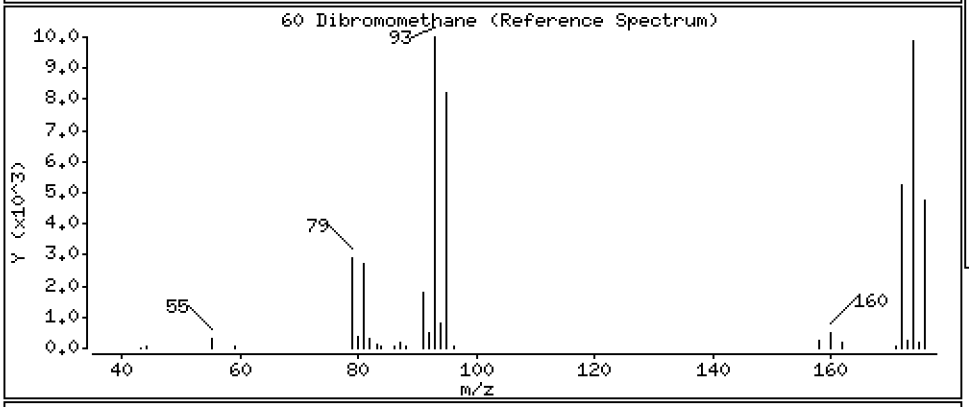
Purge Volume: 5.0 Operator: CJG

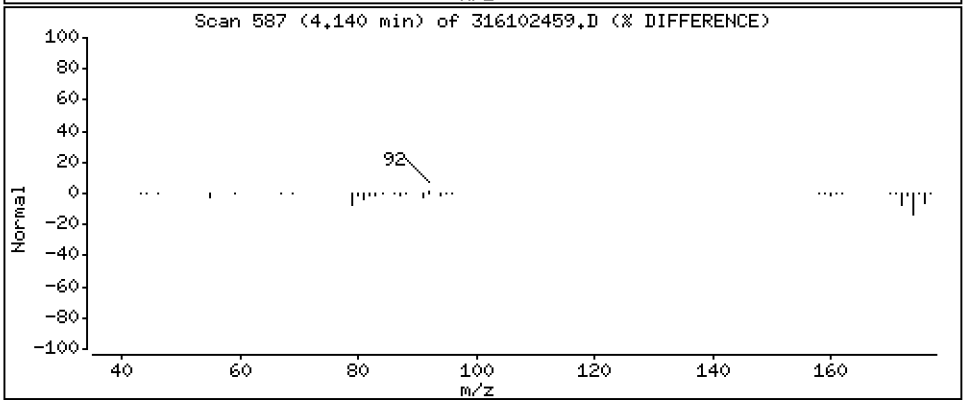
Column phase: DB-VRX Column diameter: 0.25

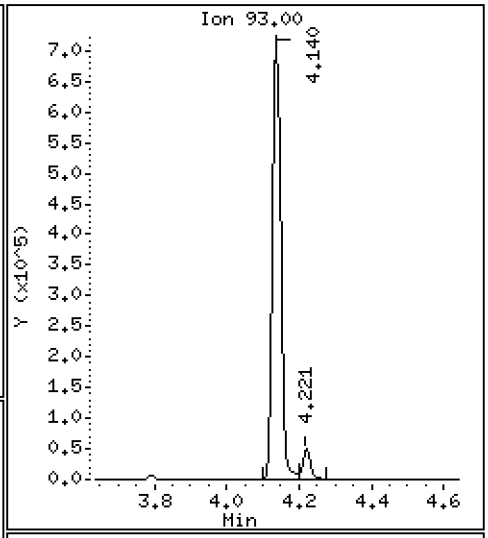
60 Dibromomethane Concentration: 199.912 ug/L

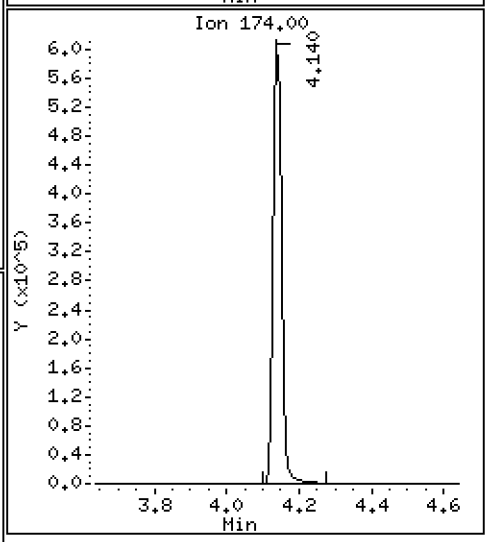












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 66

Date : 25-OCT-2016 01:36

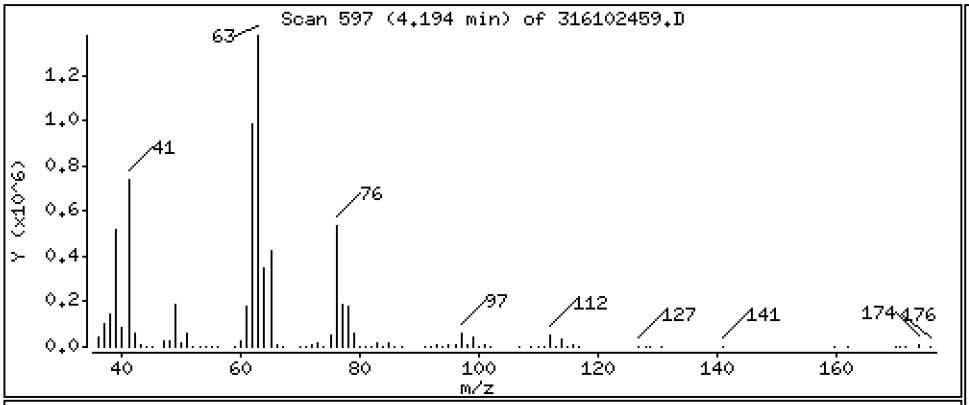
Client ID: Instrument: ms03.i

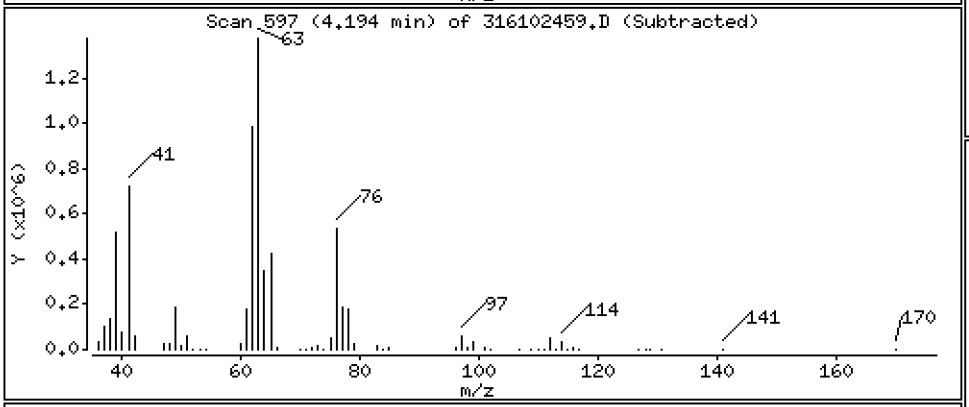
Sample Info: 1239;;1;1;6;;;

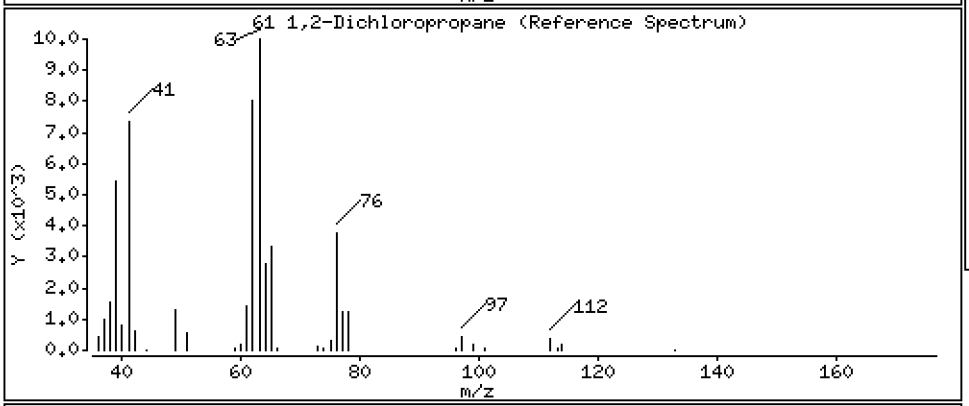
Purge Volume: 5.0 Operator: CJG

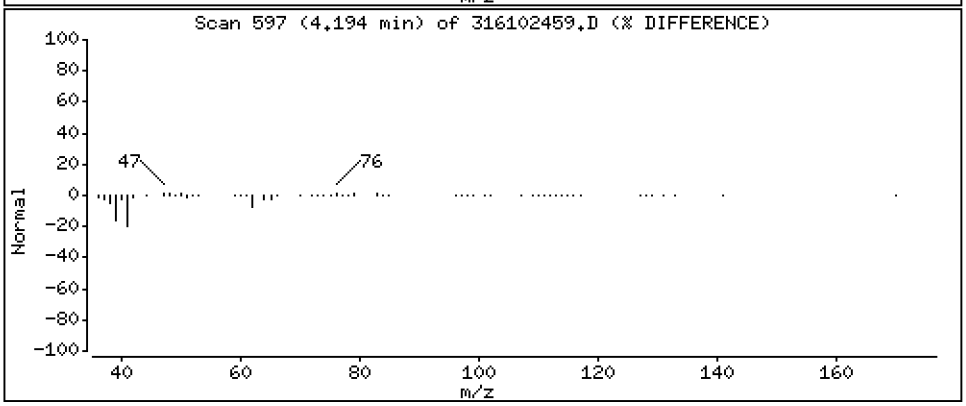
Column phase: DB-VRX Column diameter: 0.25

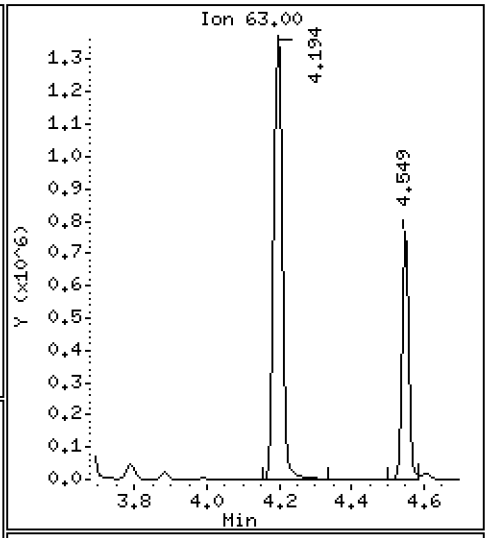
61 1,2-Dichloropropane Concentration: 199.932 ug/L

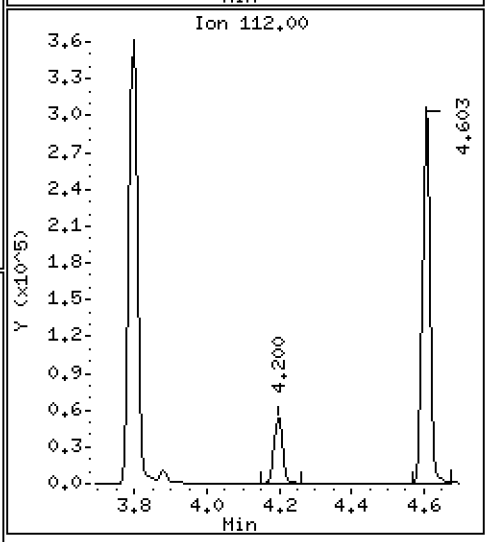












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 67

Date : 25-OCT-2016 01:36

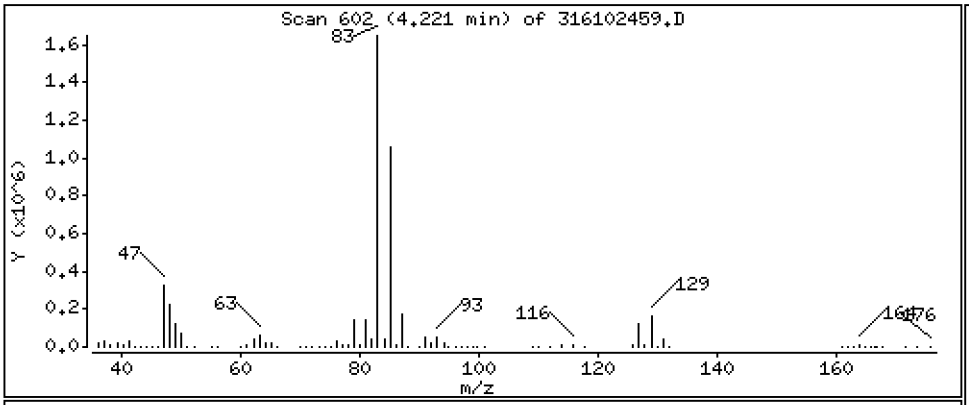
Client ID: Instrument: ms03.i

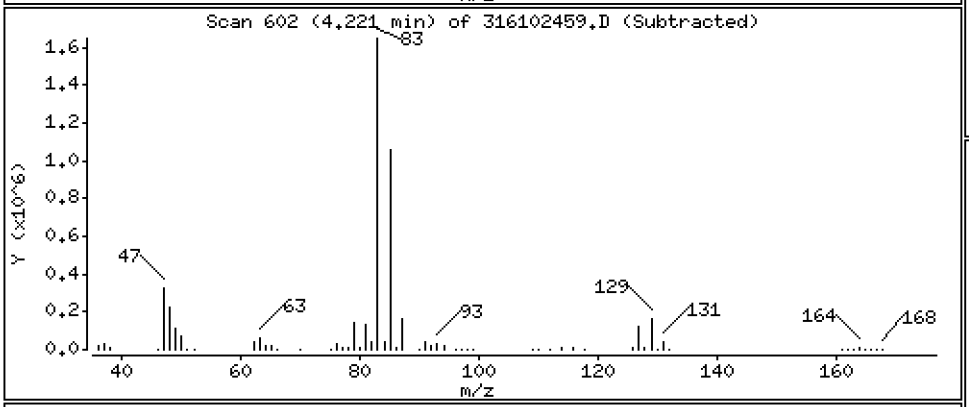
Sample Info: 1239;;1;1;6;;;

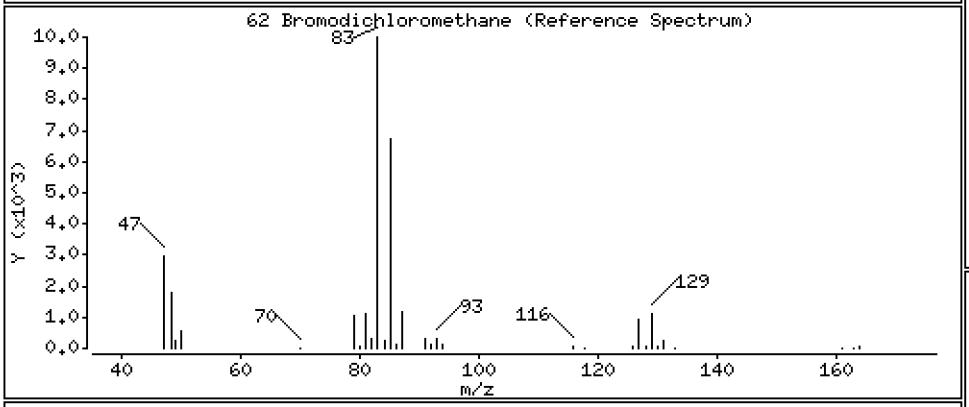
Purge Volume: 5.0 Operator: CJG

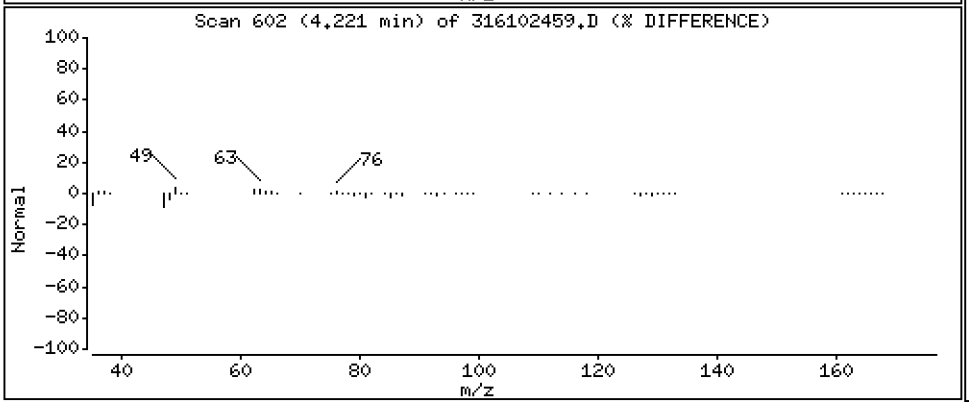
Column phase: DB-VRX Column diameter: 0.25

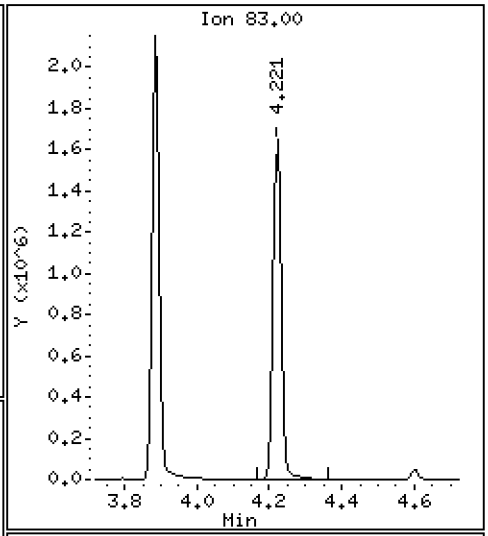
62 Bromodichloromethane Concentration: 199.874 ug/L

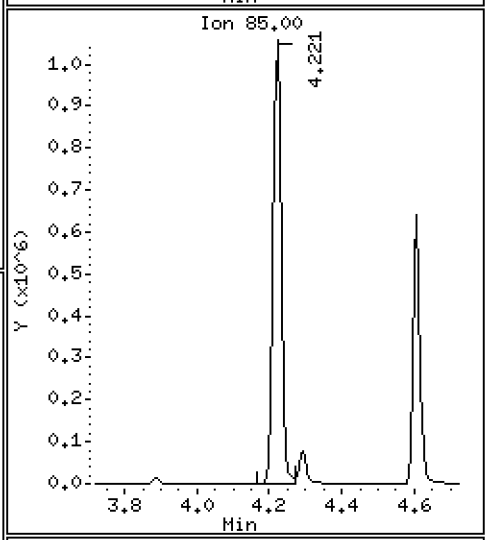


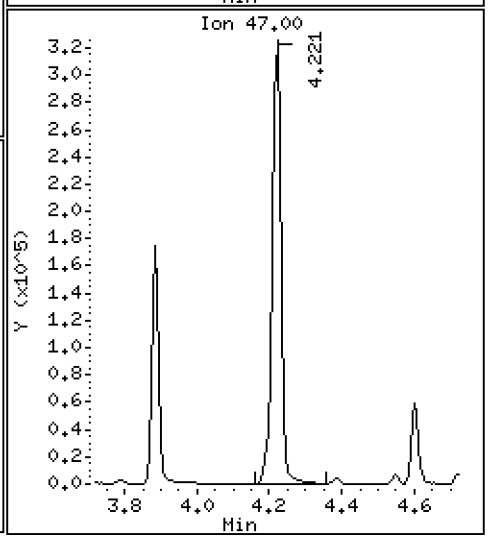












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 68

Date : 25-OCT-2016 01:36

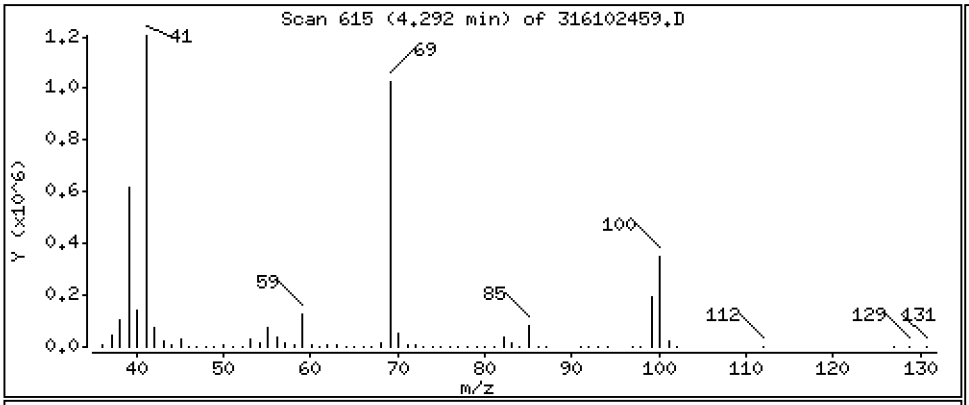
Client ID: Instrument: ms03.i

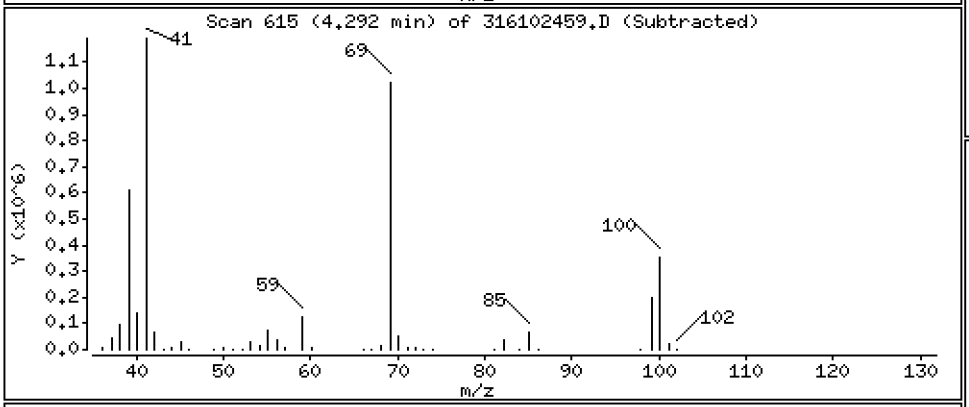
Sample Info: 1239;;1;1;6;;;

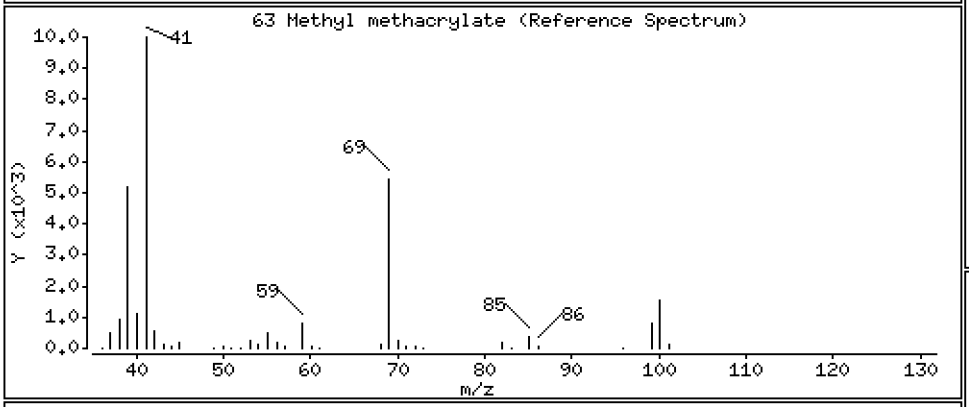
Purge Volume: 5.0 Operator: CJG

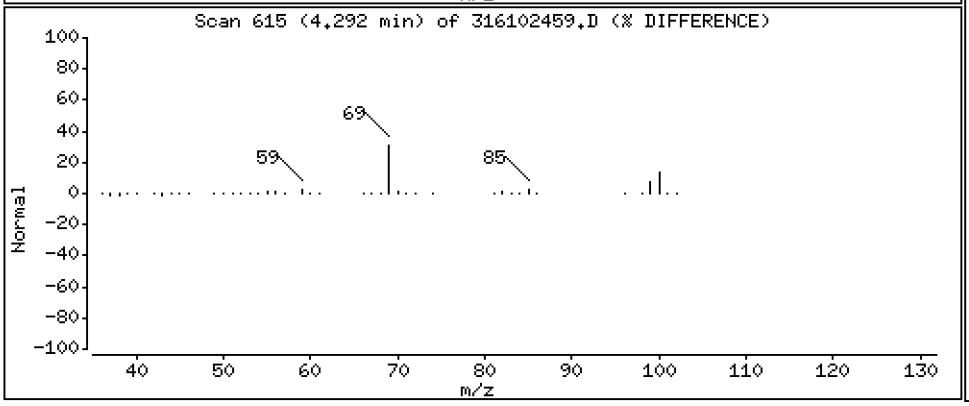
Column phase: DB-VRX Column diameter: 0.25

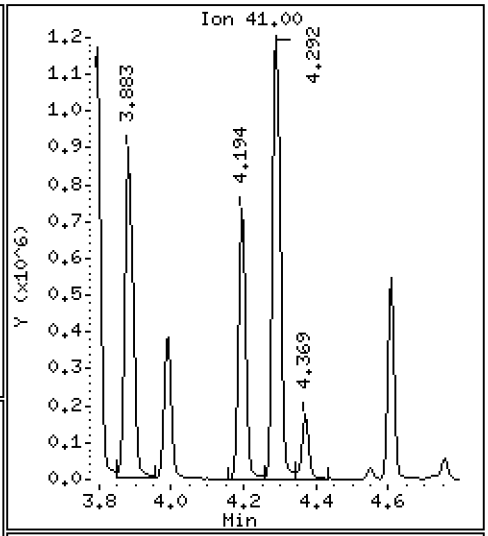
63 Methyl methacrylate Concentration: 199.729 ug/L

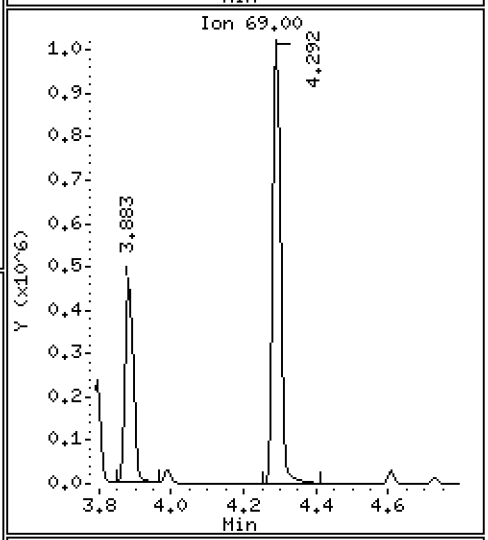


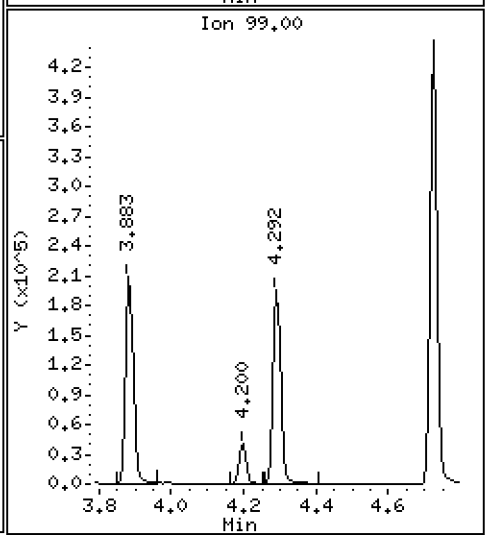












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 69

Date : 25-OCT-2016 01:36

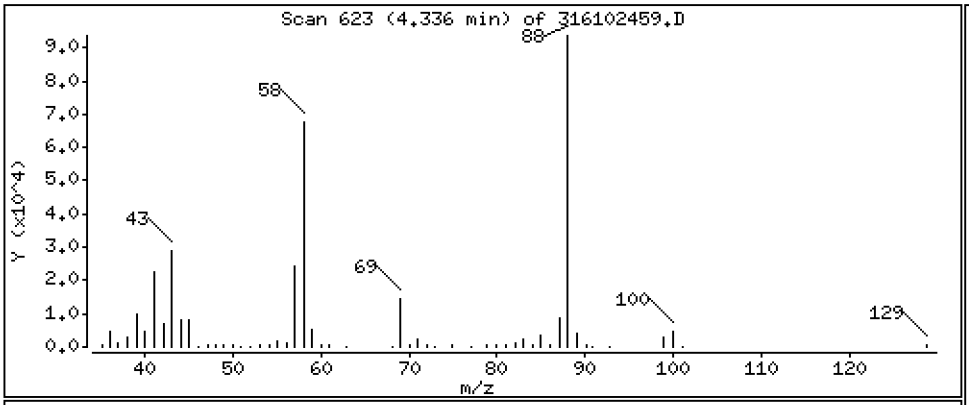
Client ID: Instrument: ms03.i

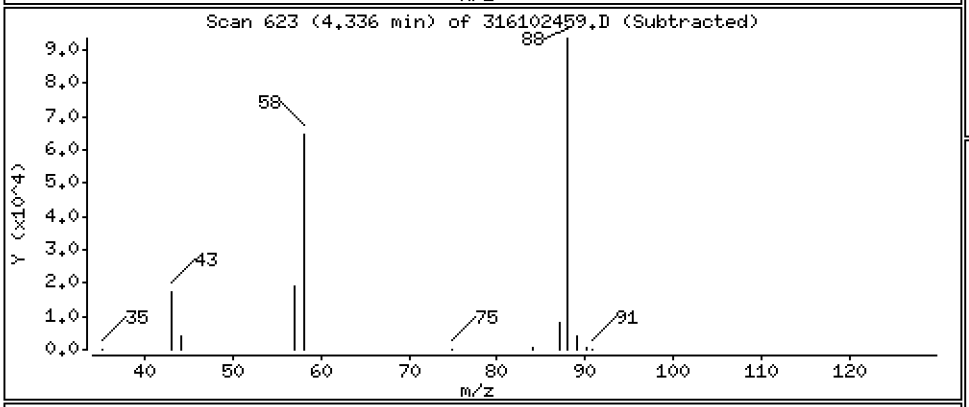
Sample Info: 1239;;1;1;6;;;

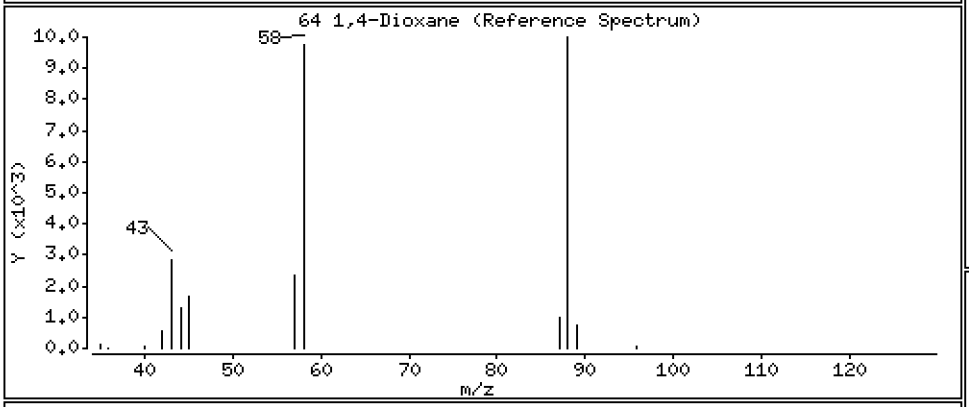
Purge Volume: 5.0 Operator: CJG

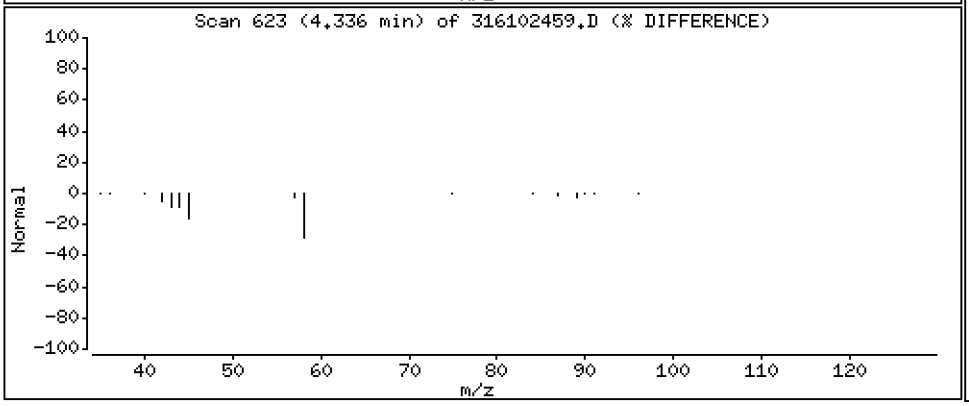
Column phase: DB-VRX Column diameter: 0.25

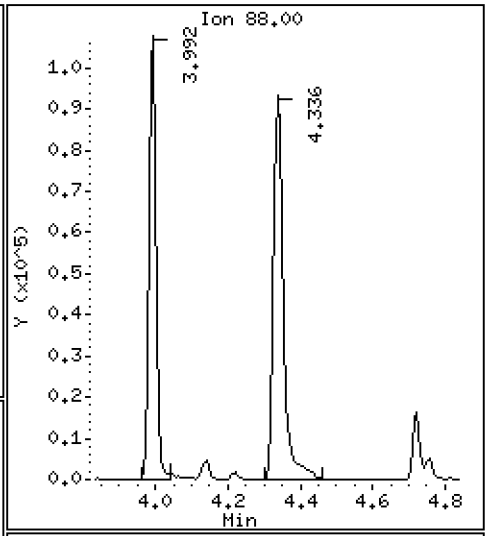
64 1,4-Dioxane Concentration: 4737.25 ug/L

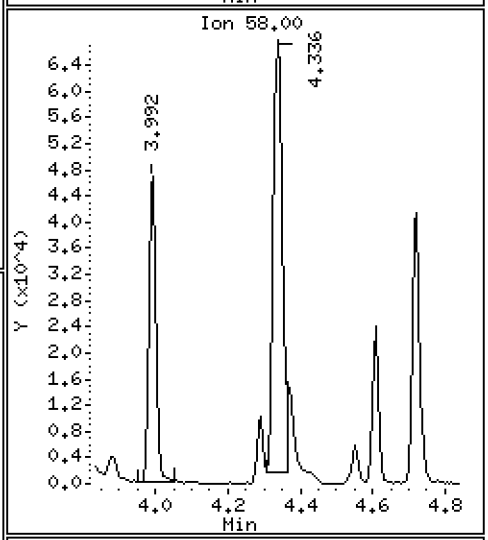


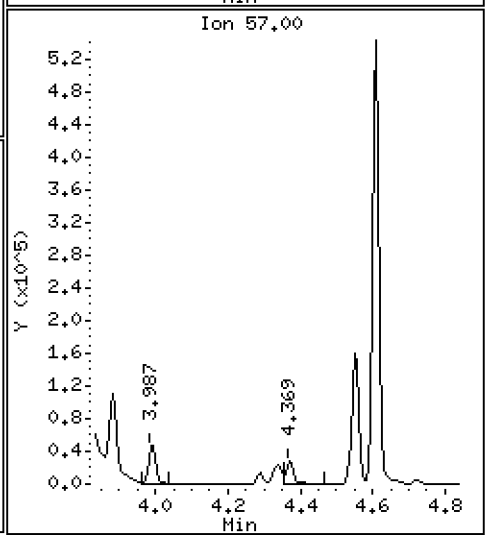












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 70

Date : 25-OCT-2016 01:36

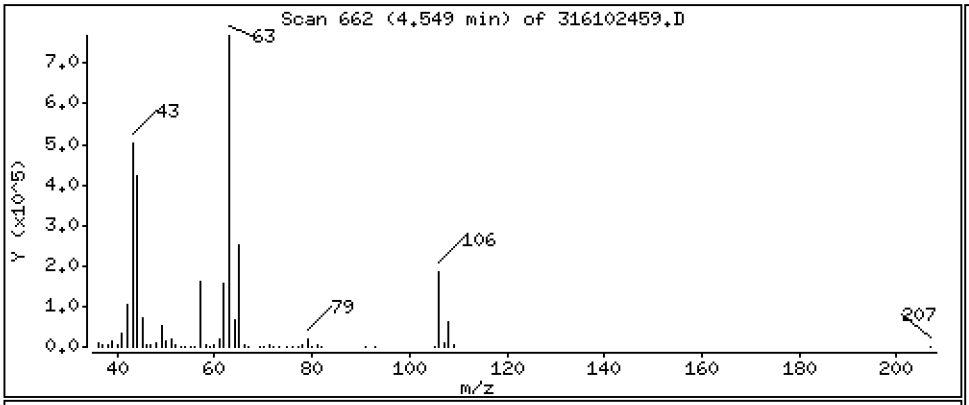
Client ID: Instrument: ms03.i

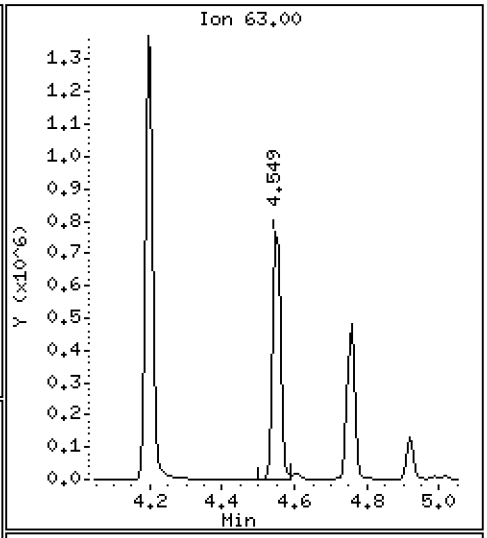
Sample Info: 1239;;1;1;6;;;

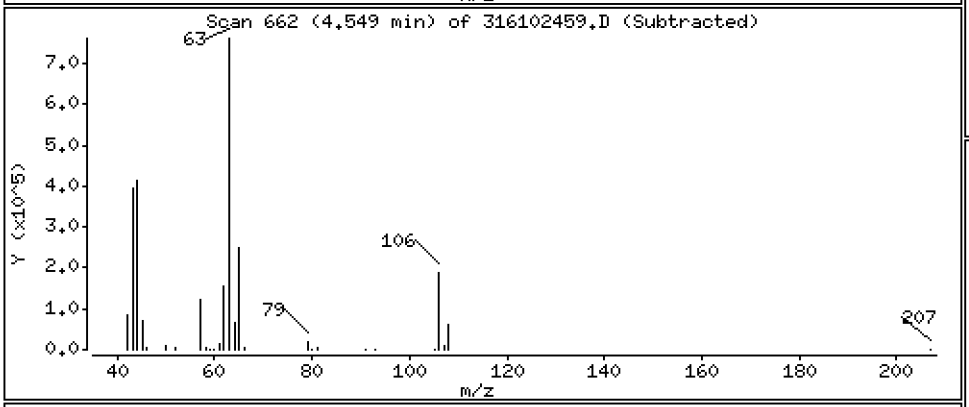
Purge Volume: 5.0 Operator: CJG

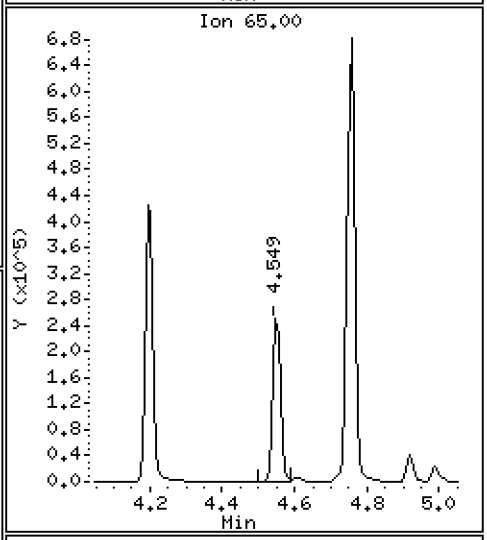
Column phase: DB-VRX Column diameter: 0.25

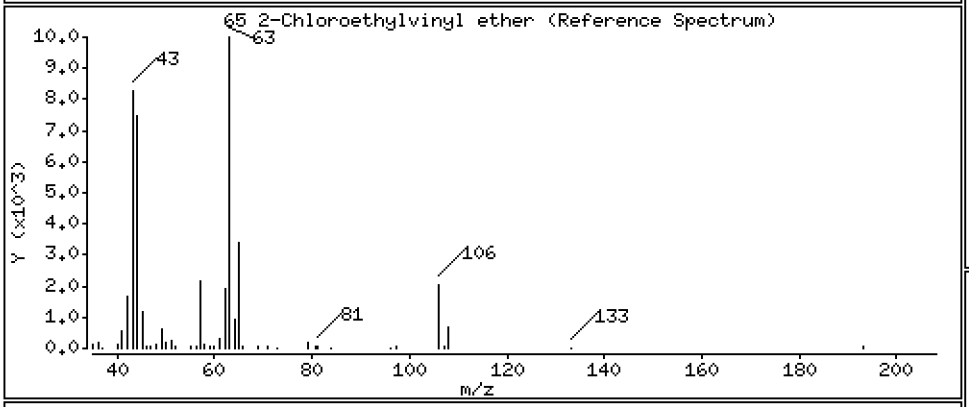
65 2-Chloroethylvinyl ether Concentration: 199.747 ug/L

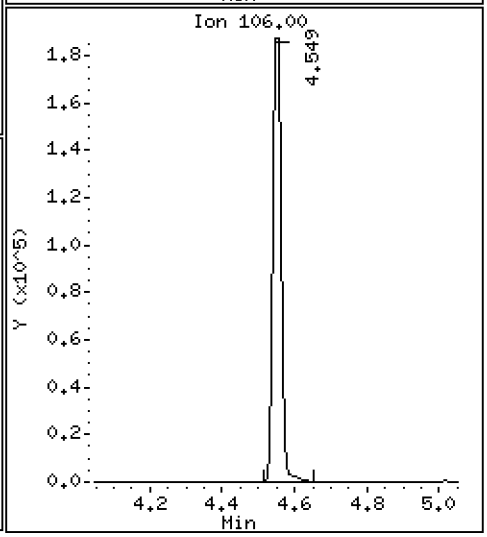


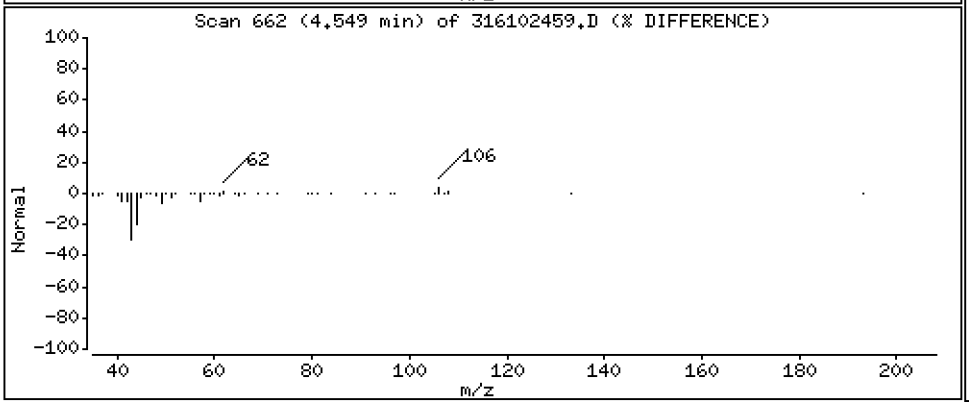












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 71

Date : 25-OCT-2016 01:36

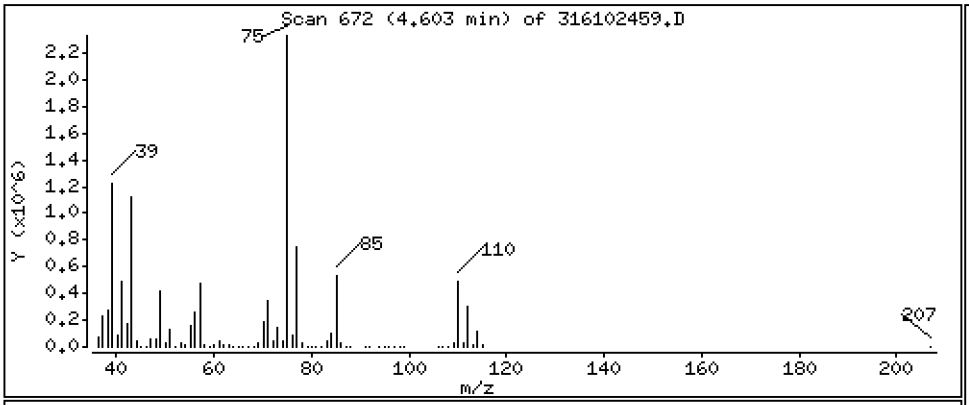
Client ID: Instrument: ms03.i

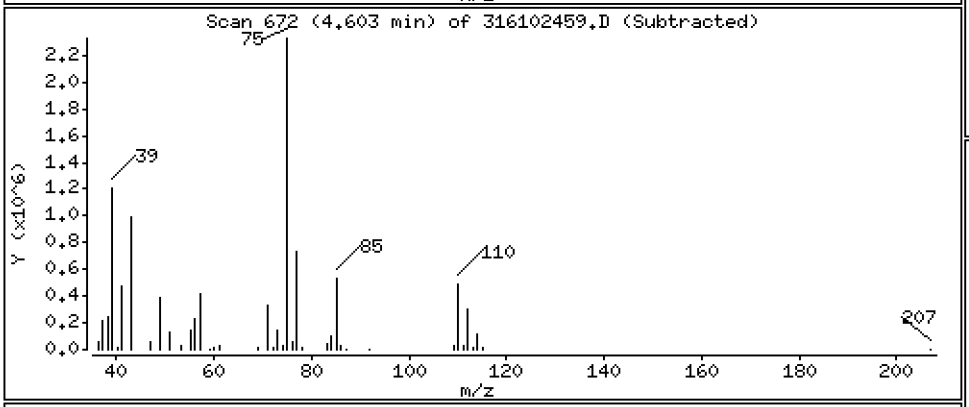
Sample Info: 1239;;1;1;6;;;

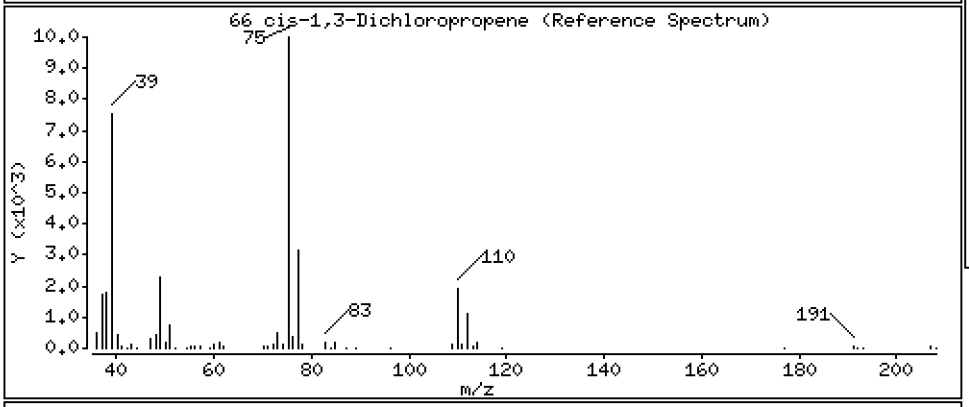
Purge Volume: 5.0 Operator: CJG

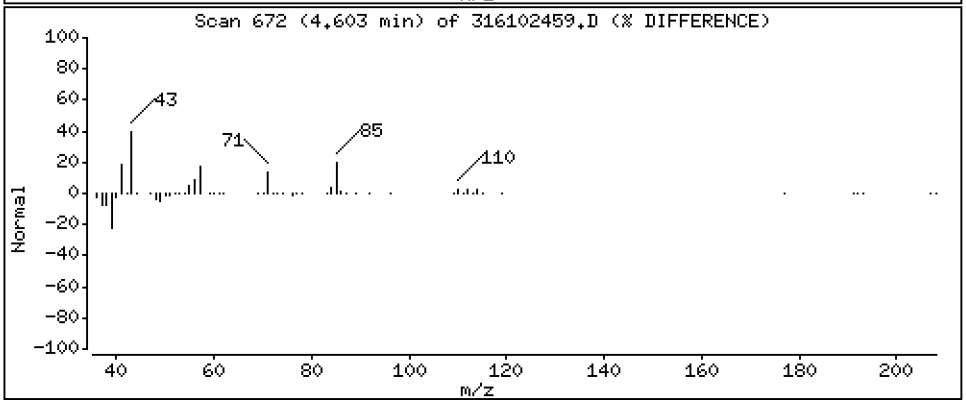
Column phase: DB-VRX Column diameter: 0.25

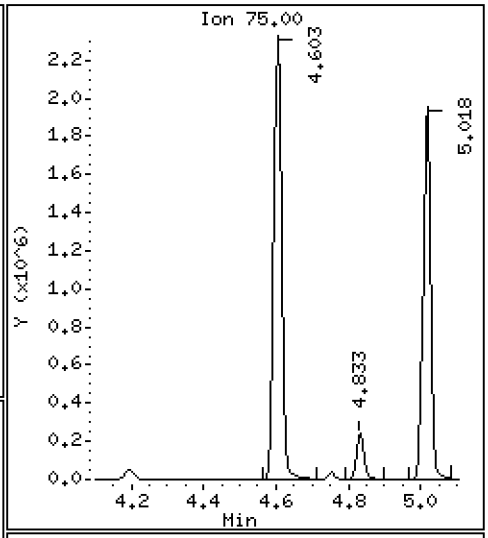
66 cis-1,3-Dichloropropene Concentration: 199.825 ug/L

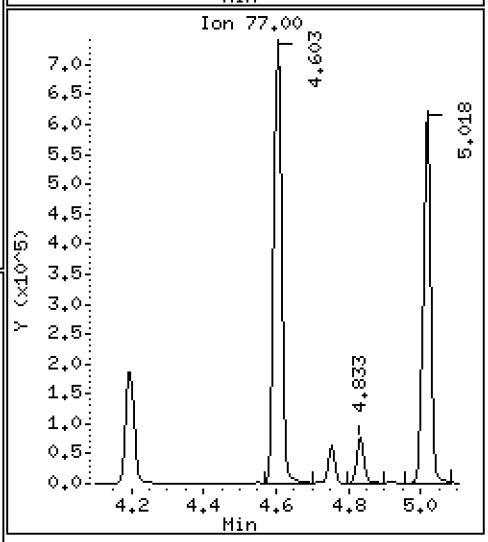












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 72

Date : 25-OCT-2016 01:36

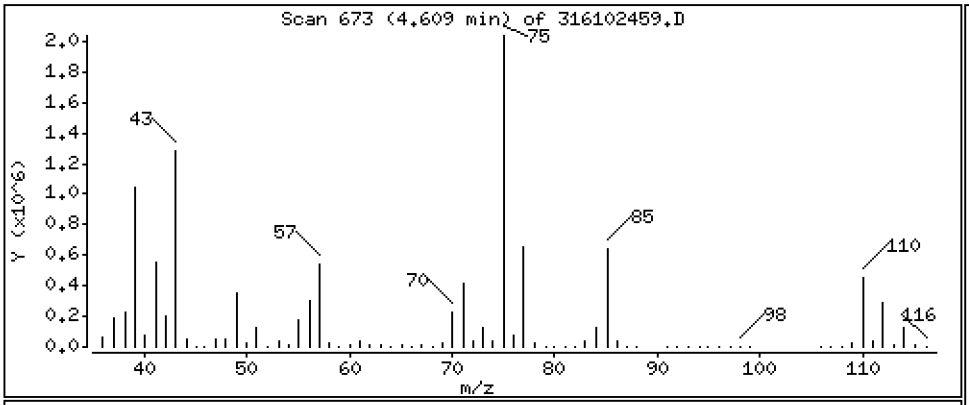
Client ID: Instrument: ms03.i

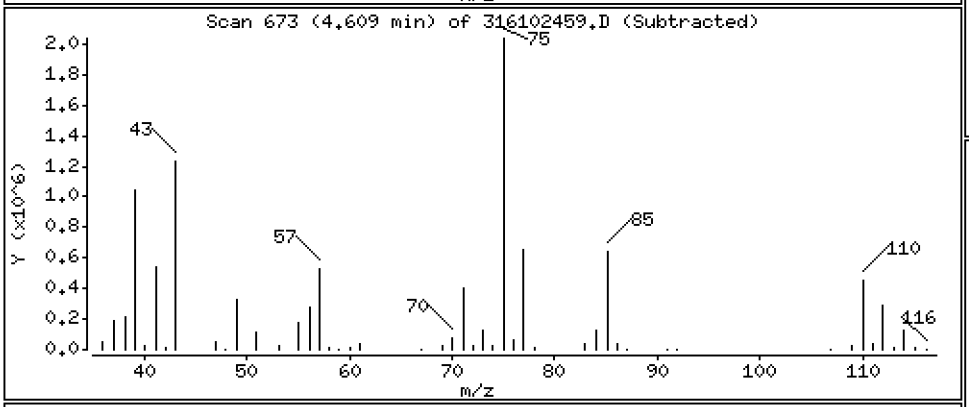
Sample Info: 1239;;1;1;6;;;

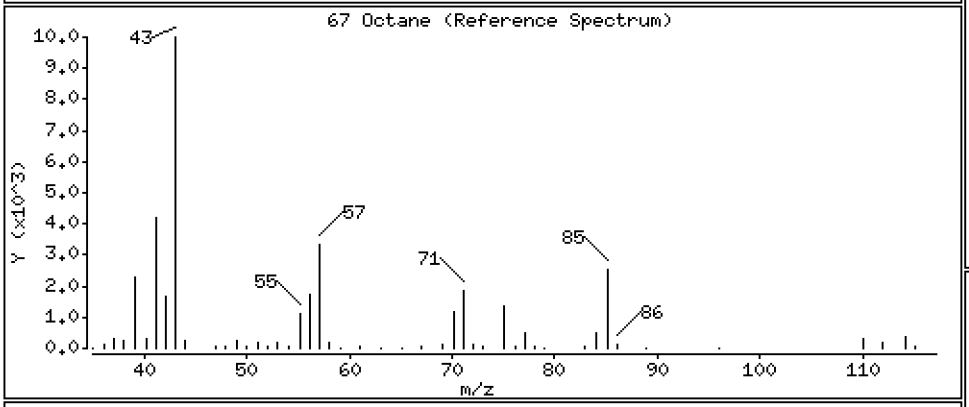
Purge Volume: 5.0 Operator: CJG

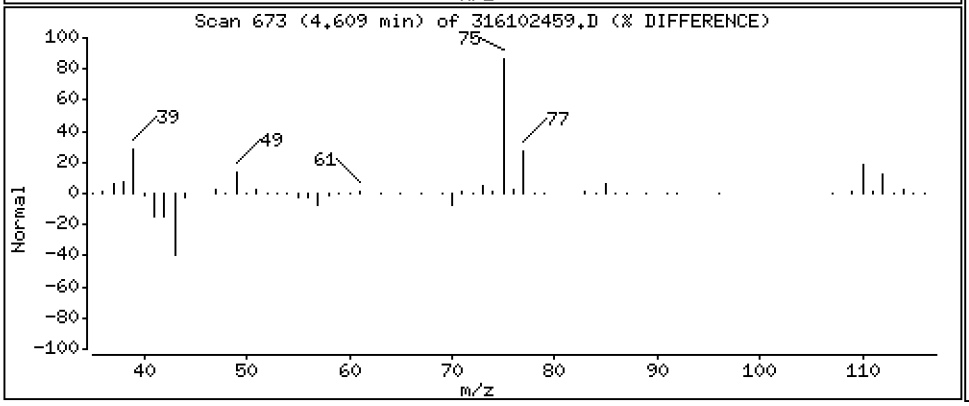
Column phase: DB-VRX Column diameter: 0.25

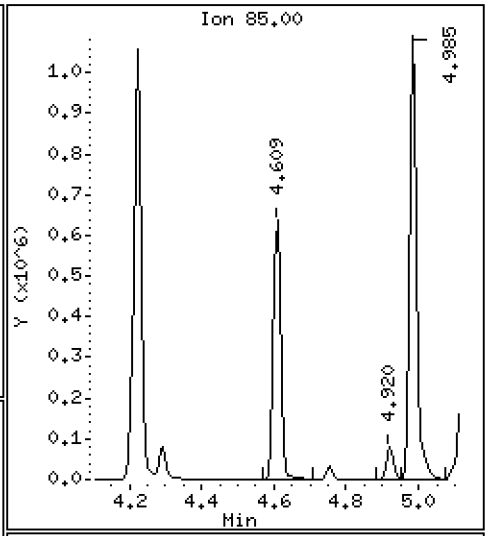
67 Octane Concentration: 199.759 ug/L

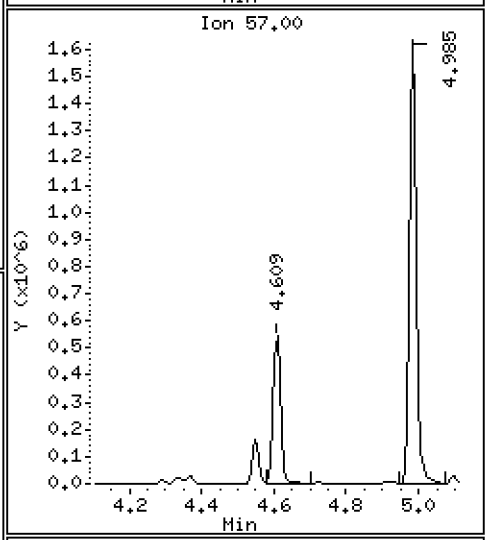


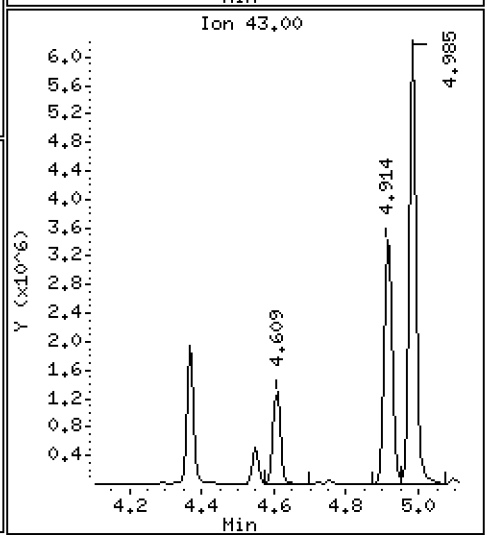












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 73

Date : 25-OCT-2016 01:36

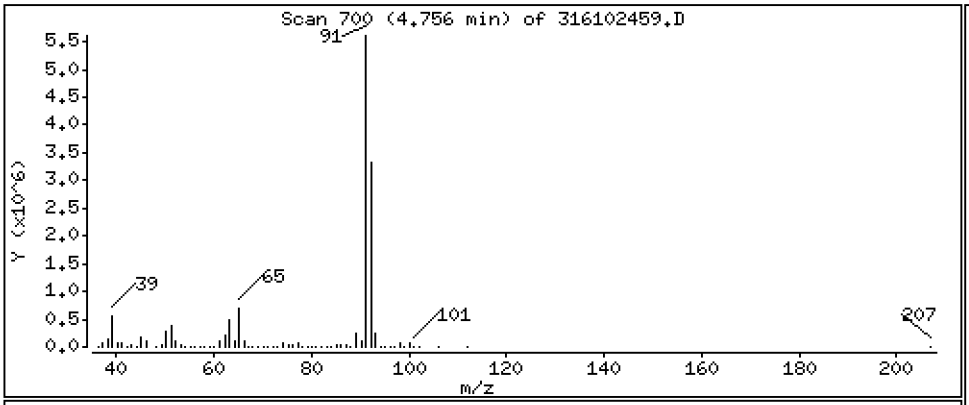
Client ID: Instrument: ms03.i

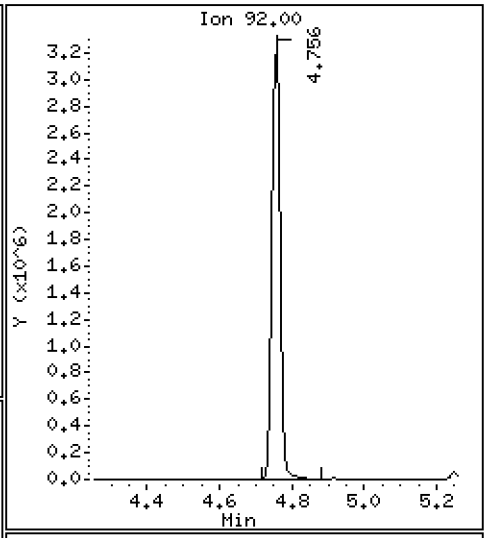
Sample Info: 1239;;1;1;6;;;

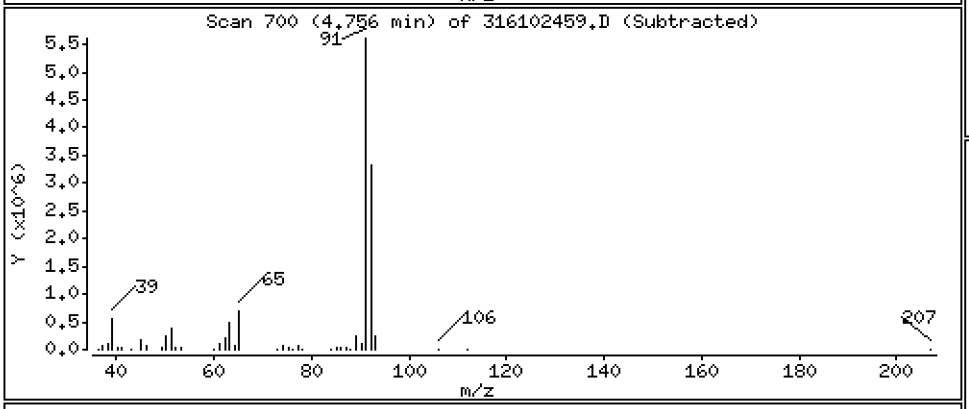
Purge Volume: 5.0 Operator: CJG

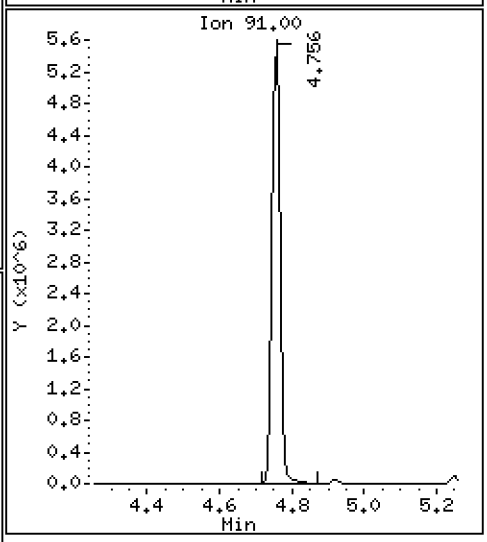
Column phase: DB-VRX Column diameter: 0.25

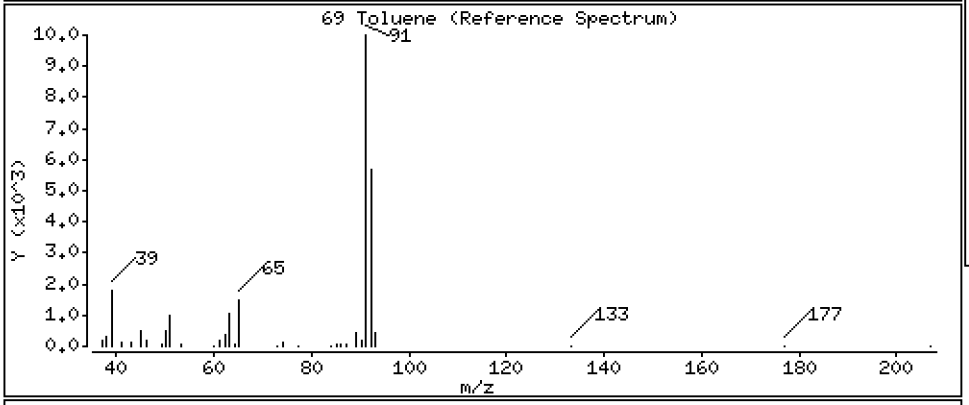
69 Toluene Concentration: 200.127 ug/L

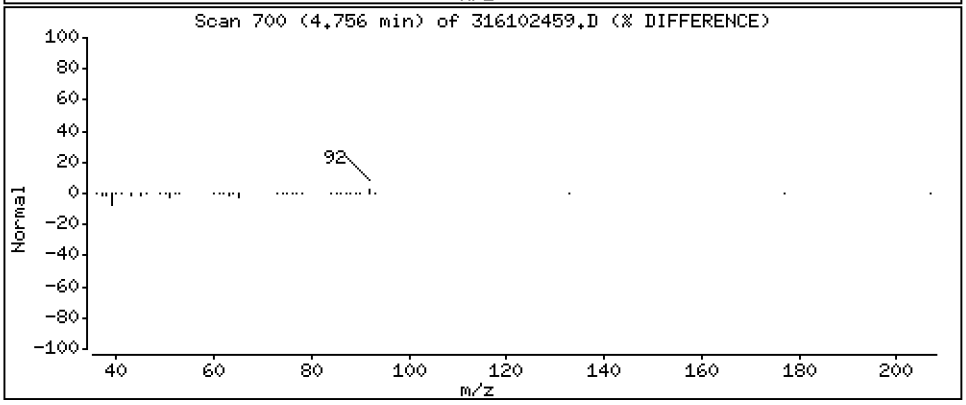












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 74

Date : 25-OCT-2016 01:36

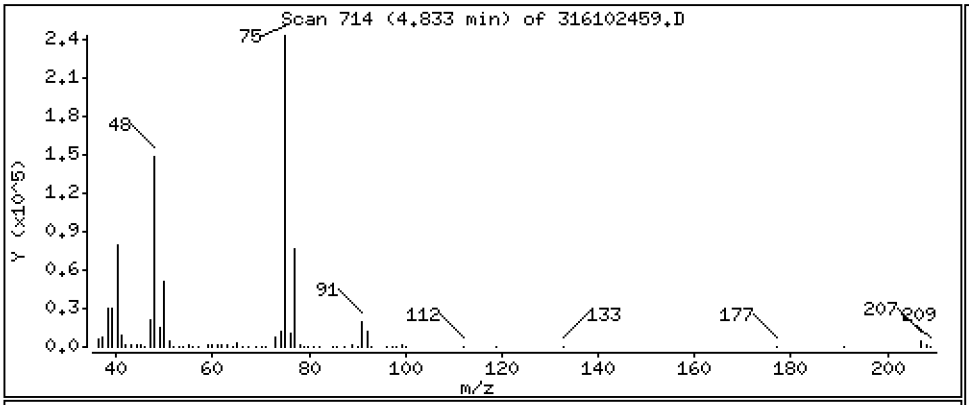
Client ID: Instrument: ms03.i

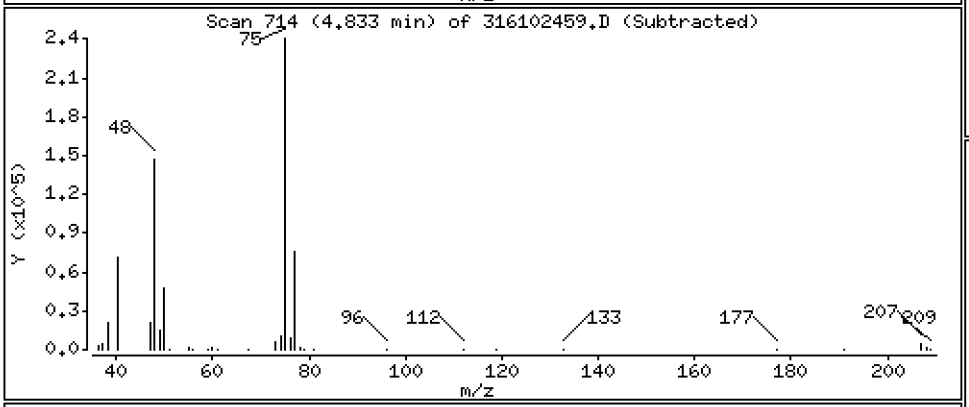
Sample Info: 1239;;1;1;6;;;

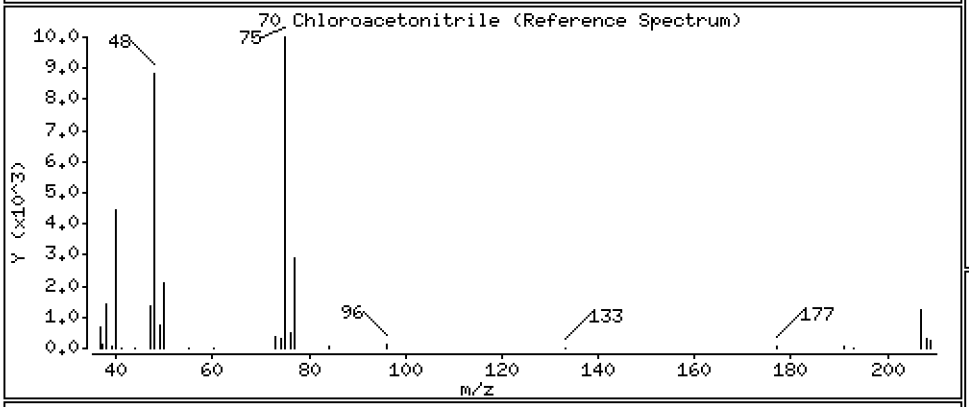
Purge Volume: 5.0 Operator: CJG

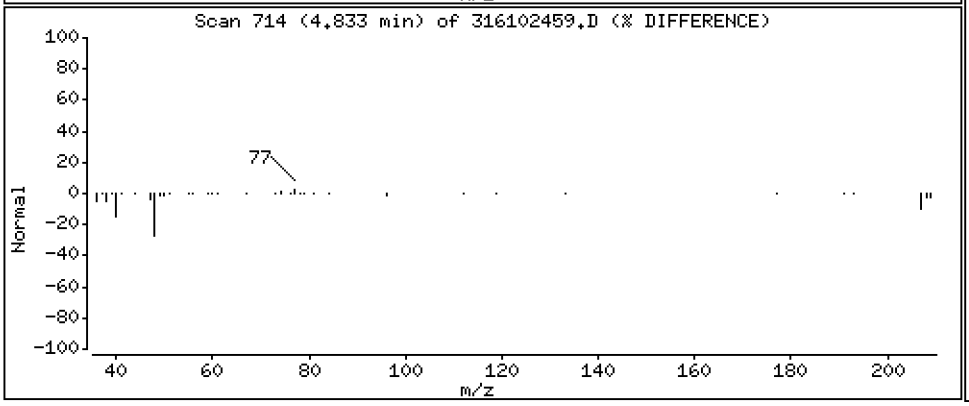
Column phase: DB-VRX Column diameter: 0.25

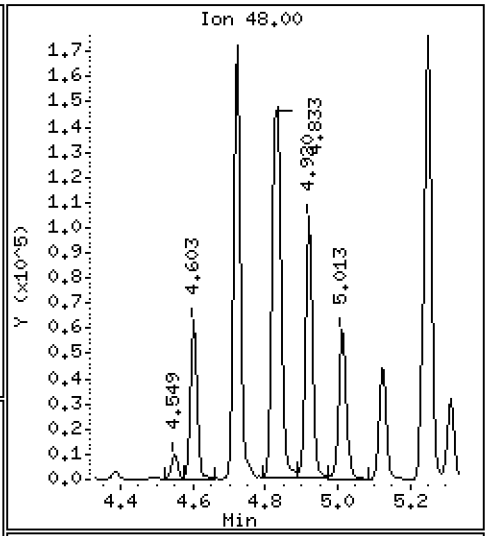
70 Chloroacetonitrile Concentration: 965.683 ug/L

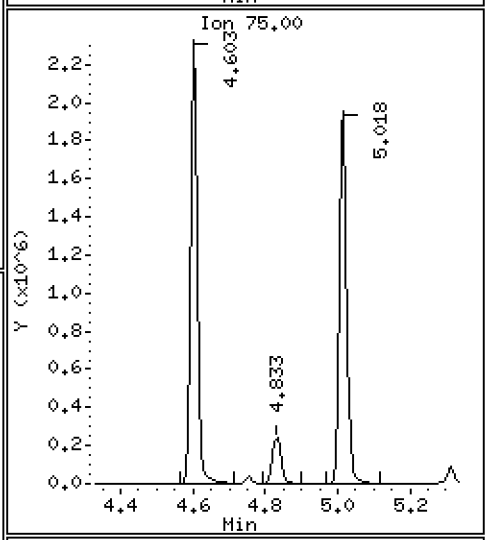


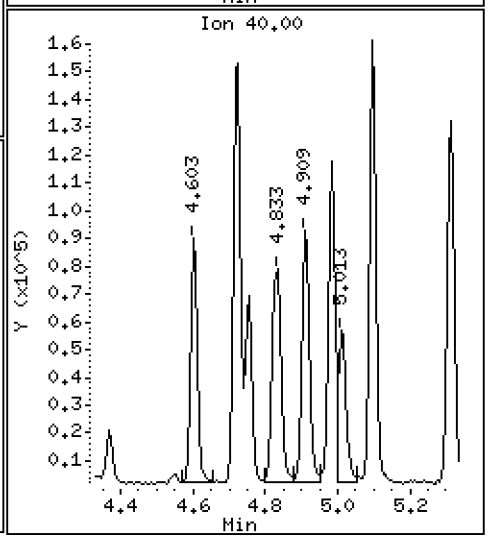












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 75

Date : 25-OCT-2016 01:36

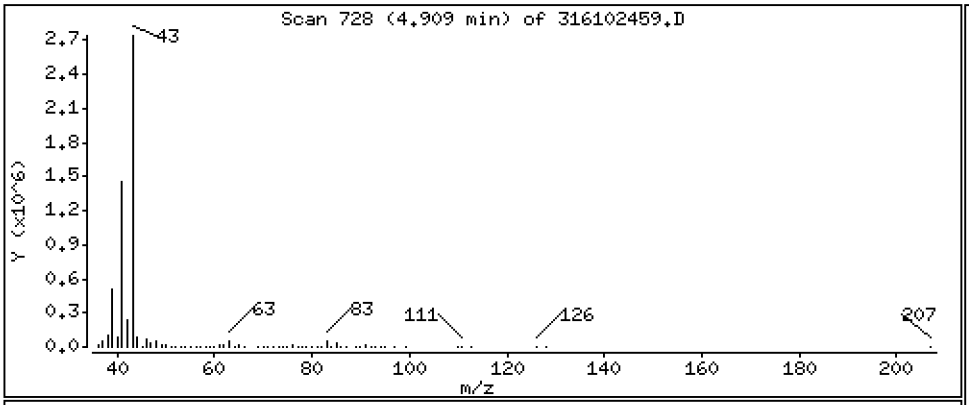
Client ID: Instrument: ms03.i

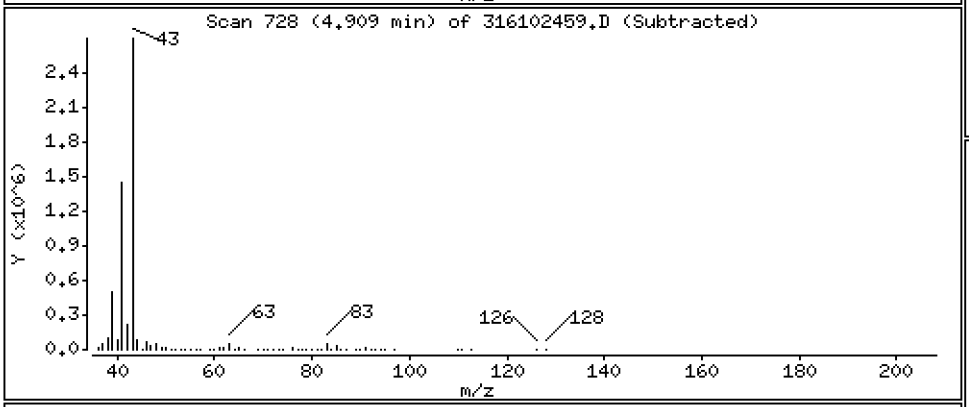
Sample Info: 1239;;1;1;6;;;

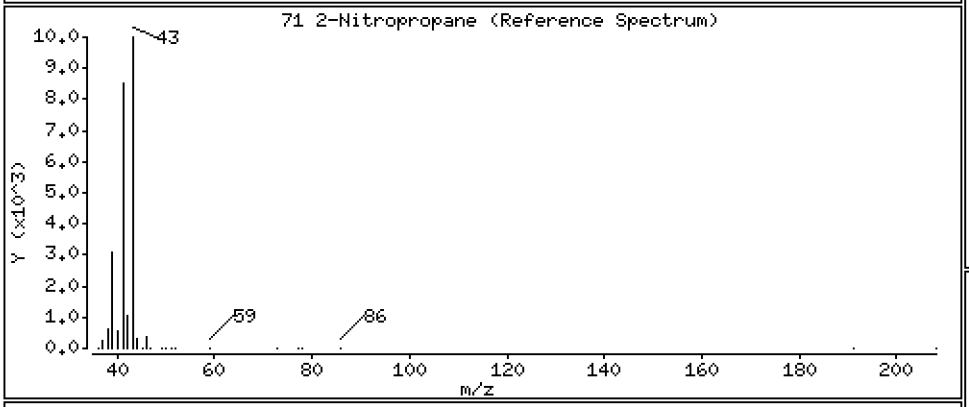
Purge Volume: 5.0 Operator: CJG

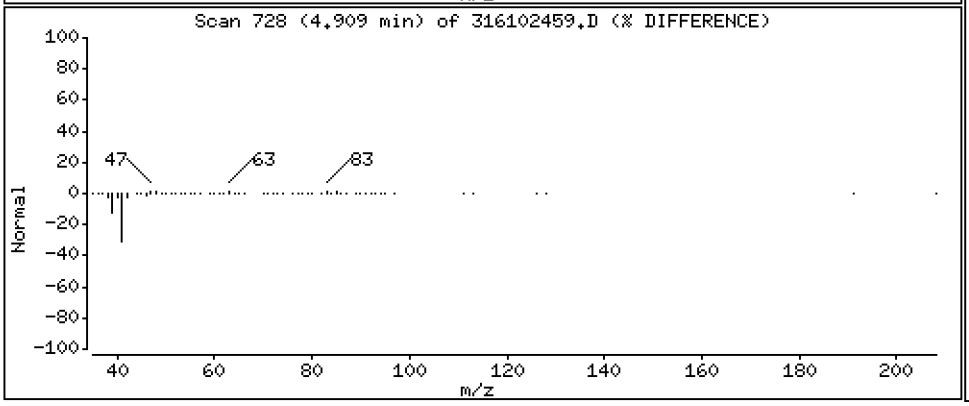
Column phase: DB-VRX Column diameter: 0.25

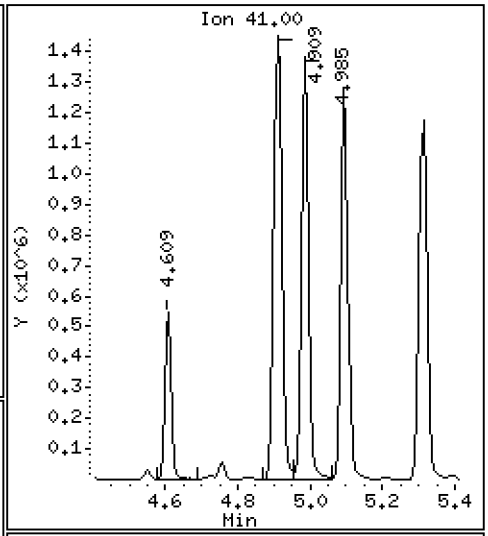
71 2-Nitropropane Concentration: 939.738 ug/L

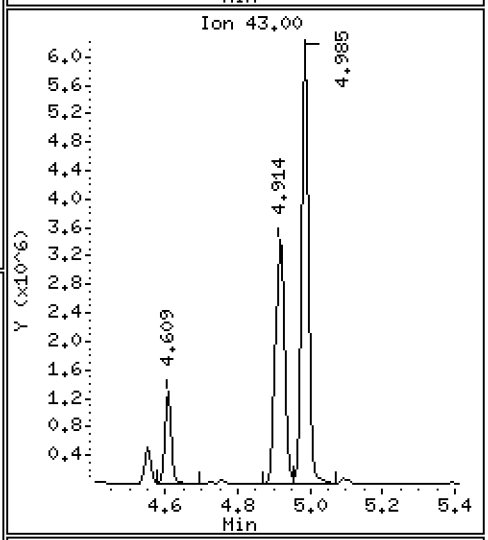


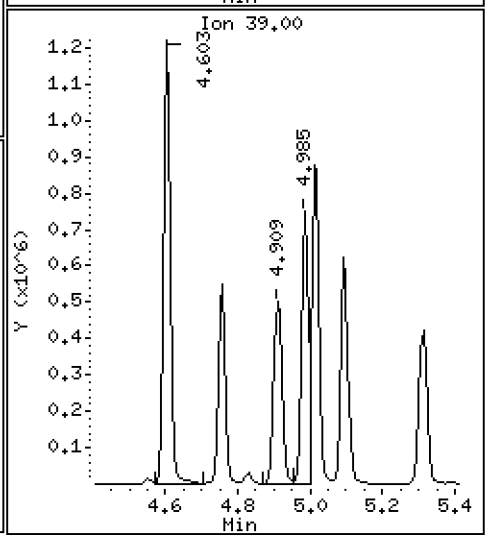












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 76

Date : 25-OCT-2016 01:36

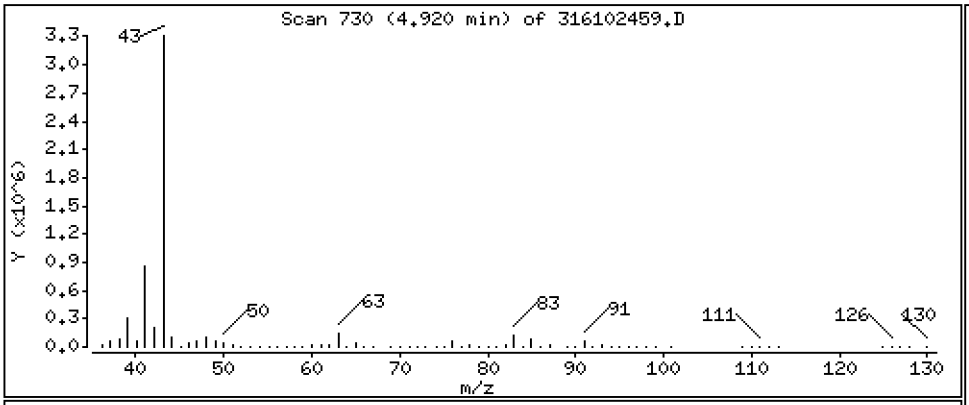
Client ID: Instrument: ms03.i

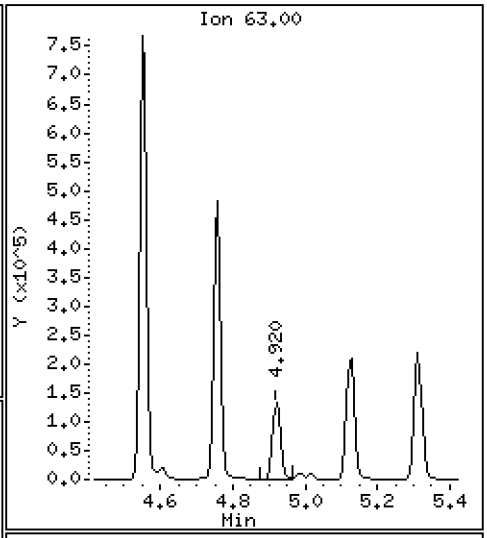
Sample Info: 1239;;1;1;6;;;

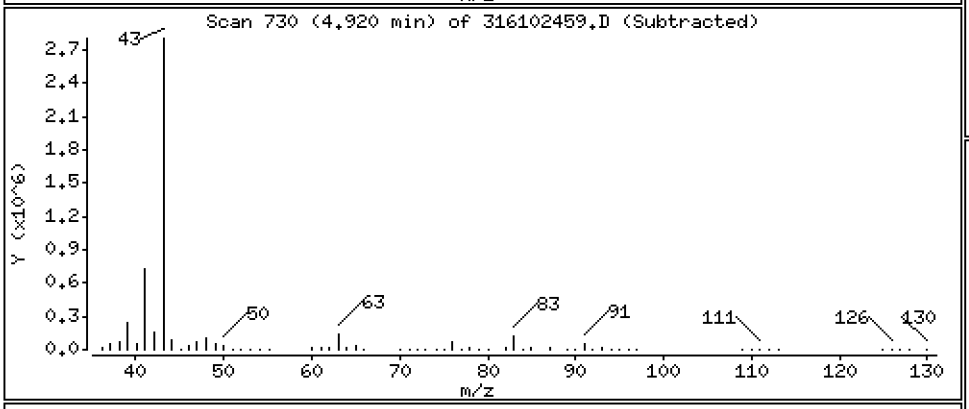
Purge Volume: 5.0 Operator: CJG

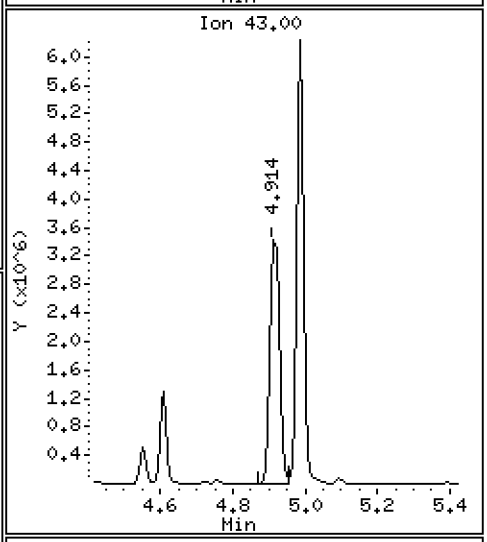
Column phase: DB-VRX Column diameter: 0.25

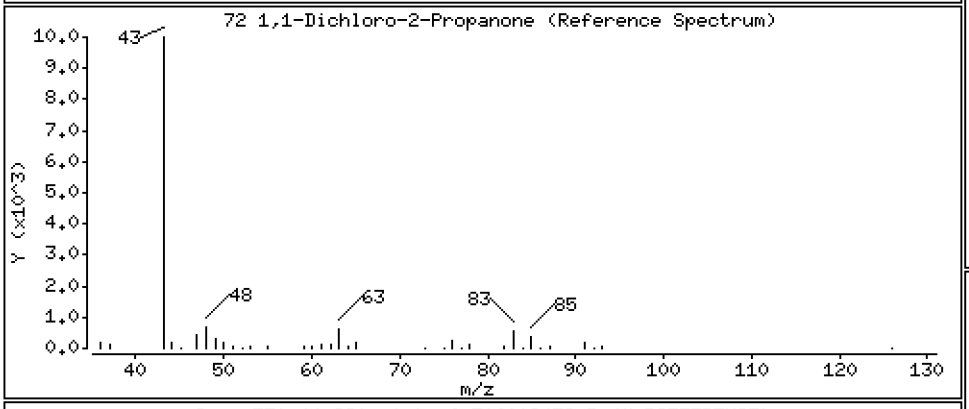
72 1,1-Dichloro-2-Propanone Concentration: 1000.20 ug/L

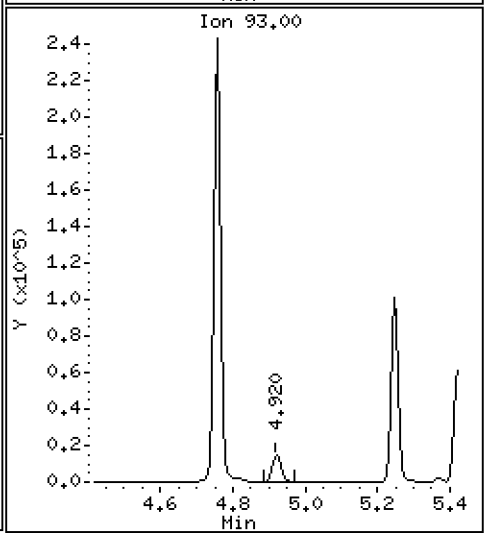


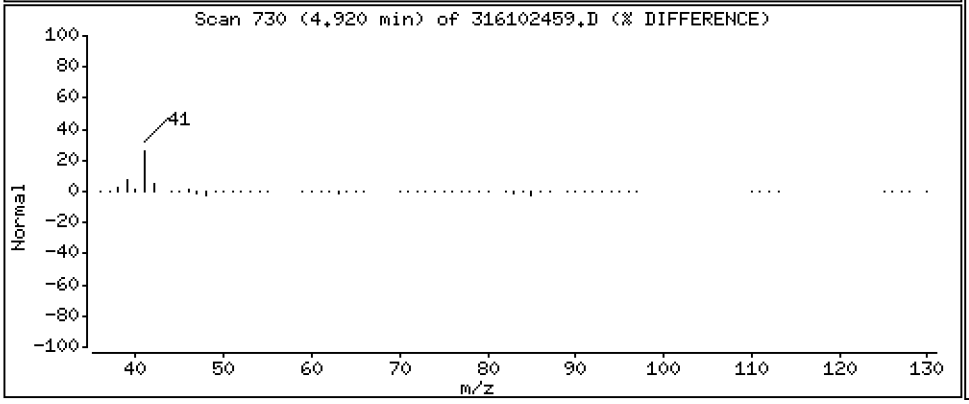












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 77

Date : 25-OCT-2016 01:36

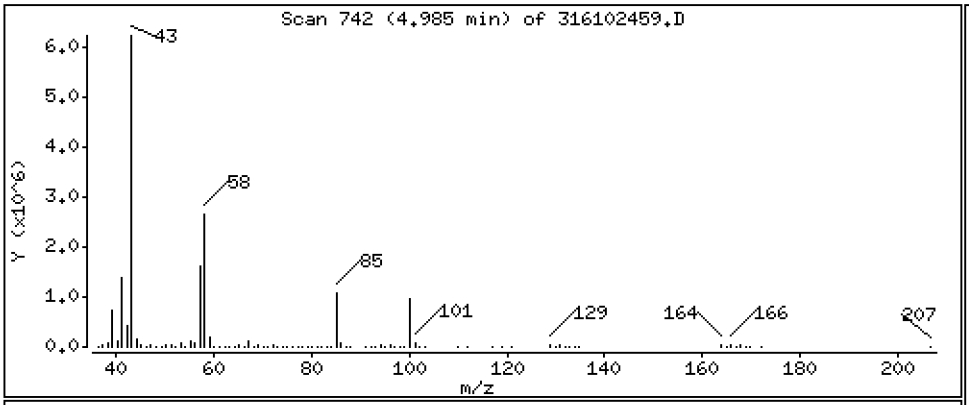
Client ID: Instrument: ms03.i

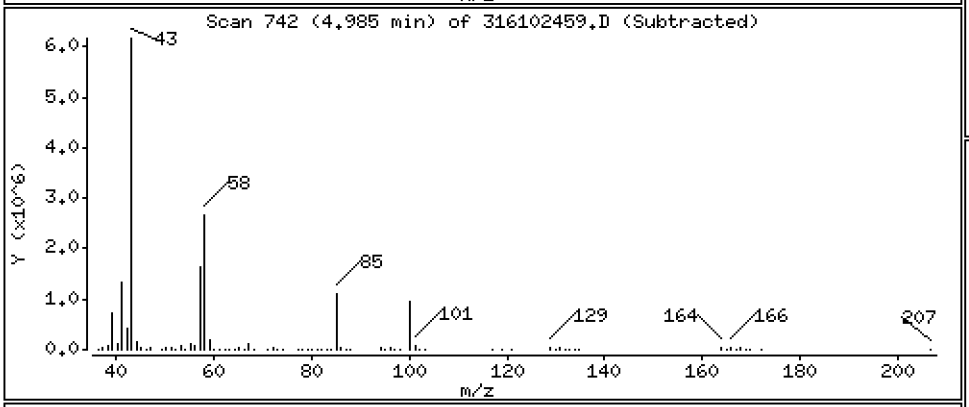
Sample Info: 1239;;1;1;6;;;

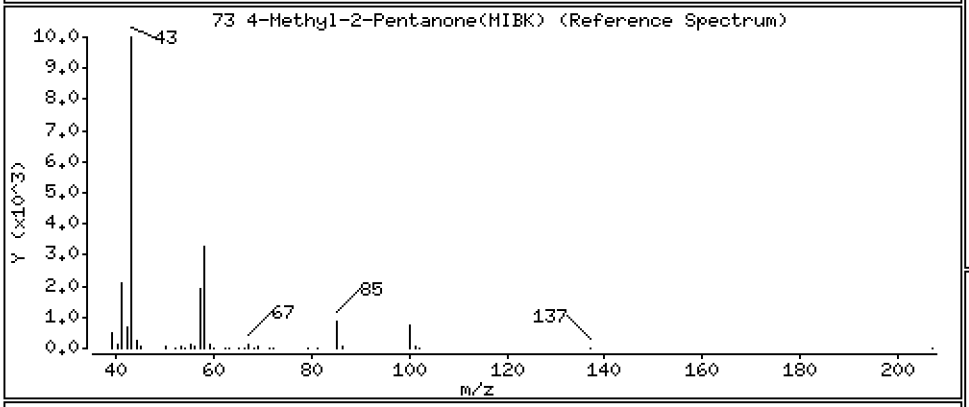
Purge Volume: 5.0 Operator: CJG

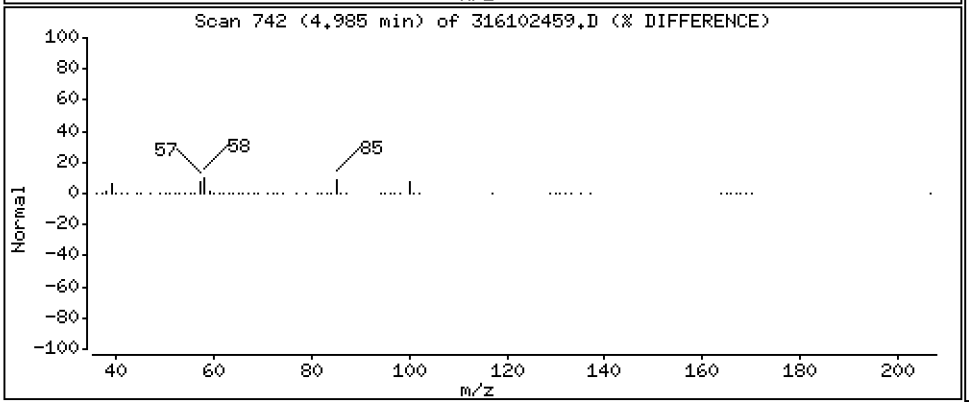
Column phase: DB-VRX Column diameter: 0.25

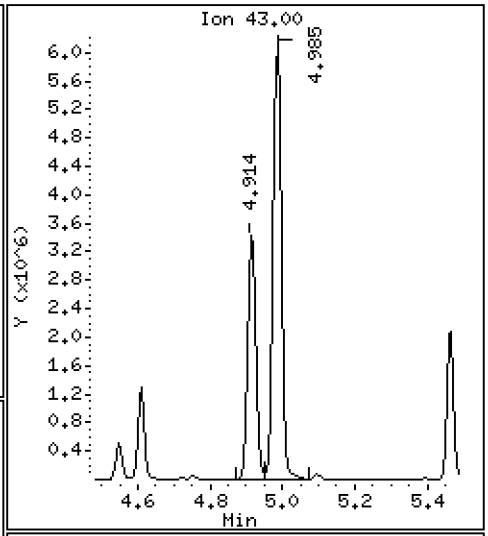
73 4-Methyl-2-Pentanone(MIBK) Concentration: 1000.54 ug/L

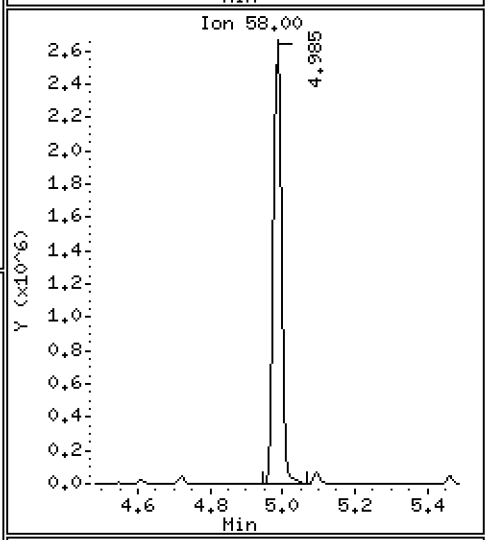


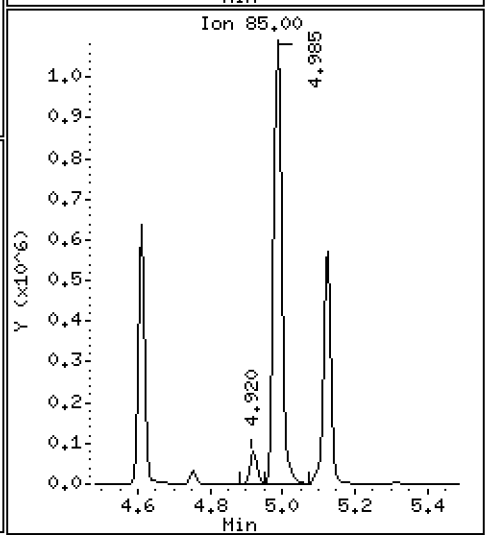












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 78

Date : 25-OCT-2016 01:36

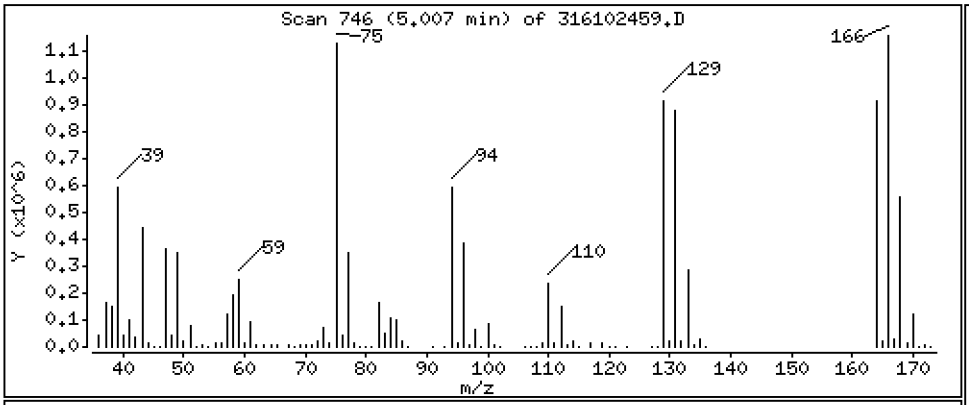
Client ID: Instrument: ms03.i

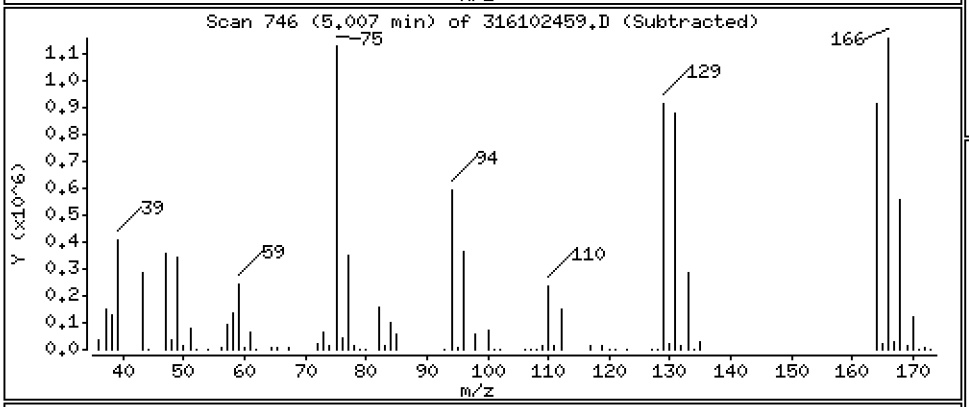
Sample Info: 1239;;1;1;6;;;

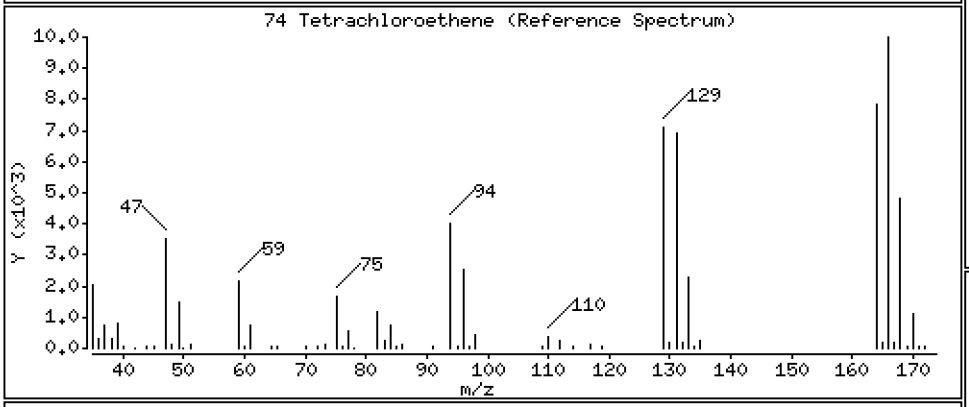
Purge Volume: 5.0 Operator: CJG

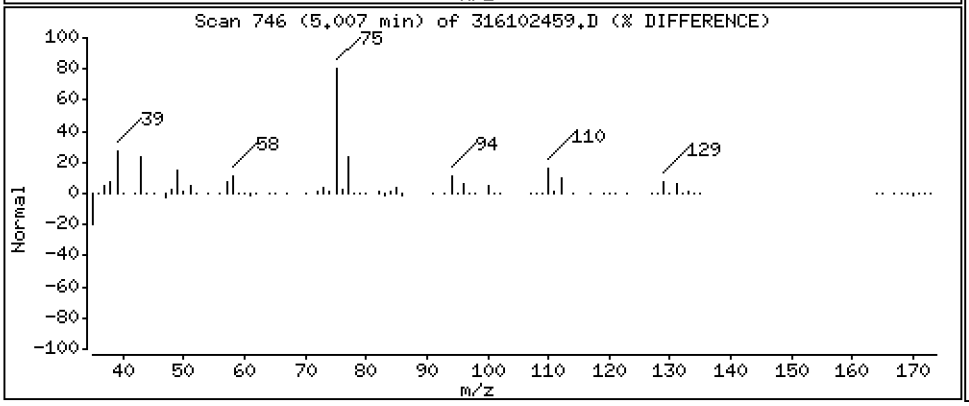
Column phase: DB-VRX Column diameter: 0.25

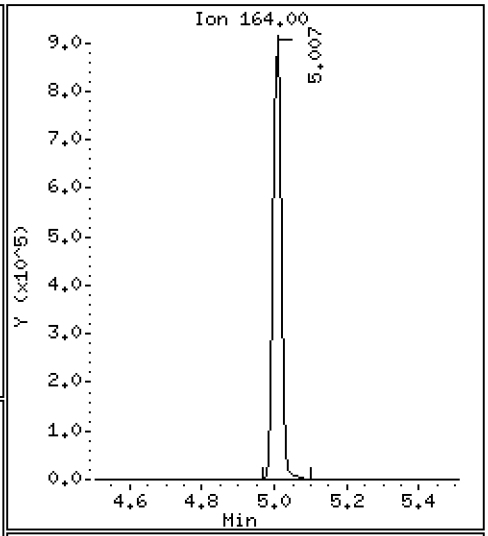
74 Tetrachloroethene Concentration: 200.266 ug/L

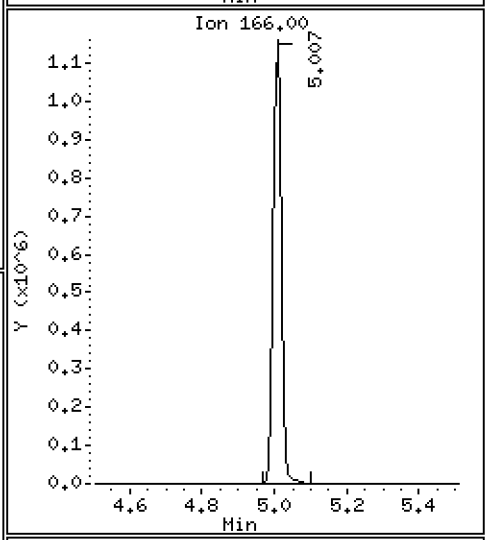


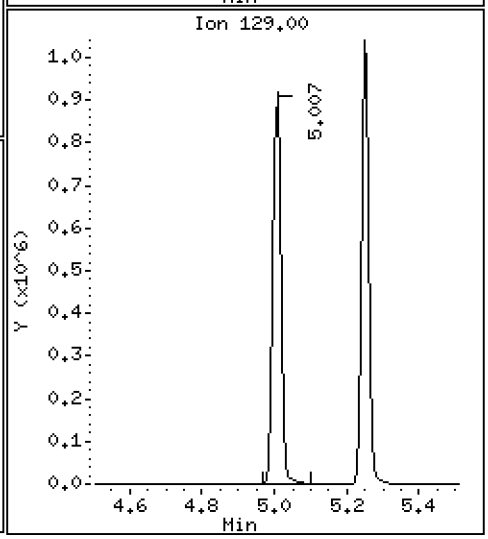












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 79

Date : 25-OCT-2016 01:36

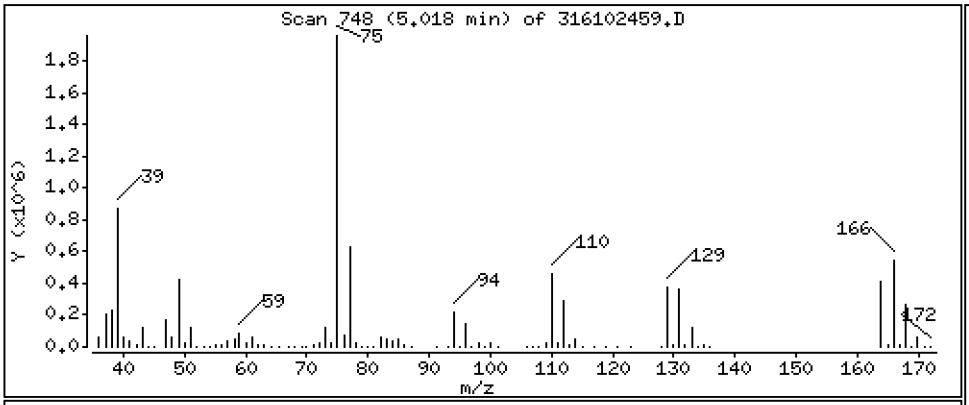
Client ID: Instrument: ms03.i

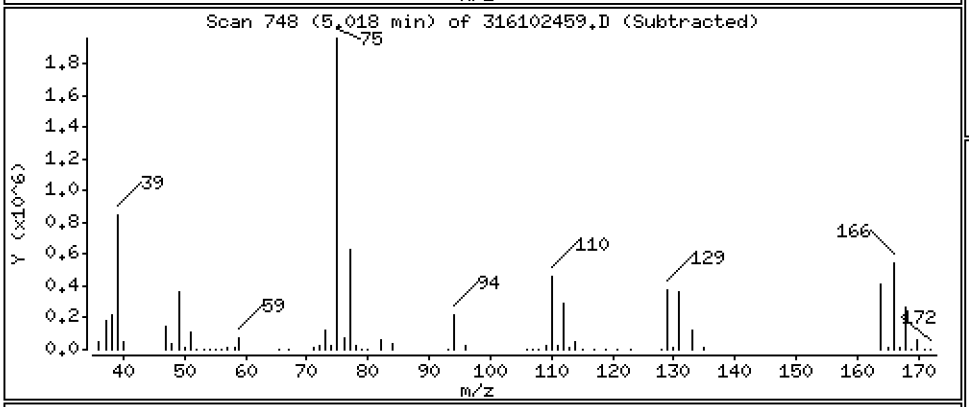
Sample Info: 1239;;1;1;6;;;

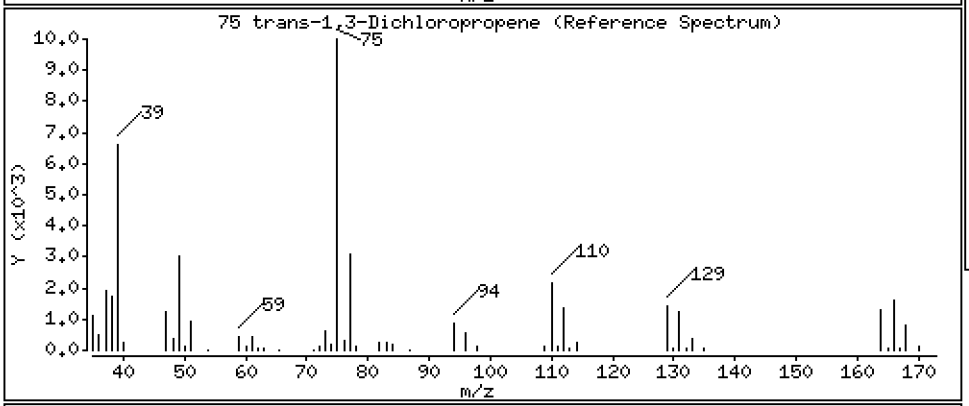
Purge Volume: 5.0 Operator: CJG

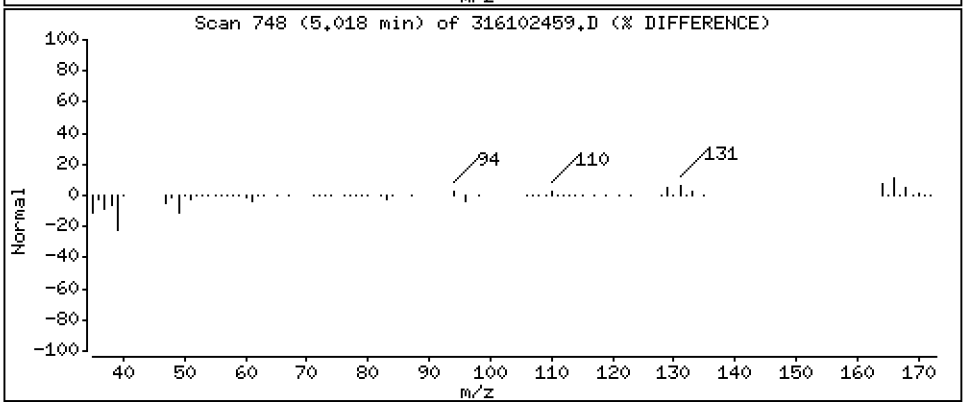
Column phase: DB-VRX Column diameter: 0.25

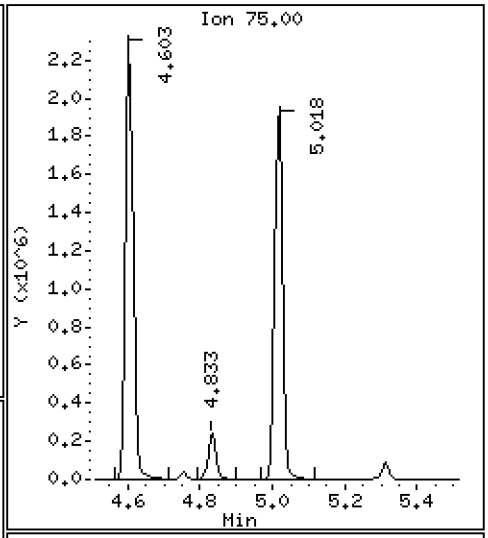
75 trans-1,3-Dichloropropene Concentration: 199.843 ug/L

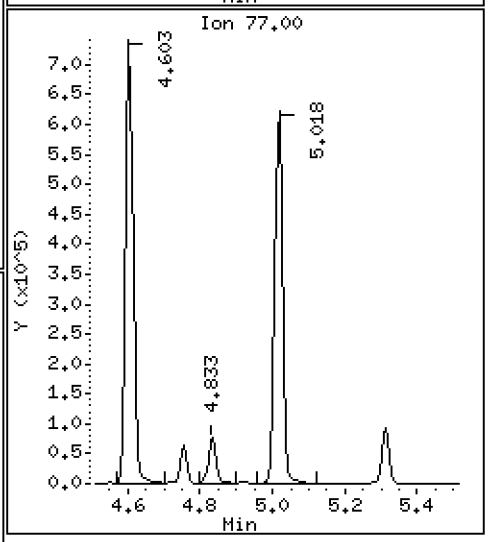












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 80

Date : 25-OCT-2016 01:36

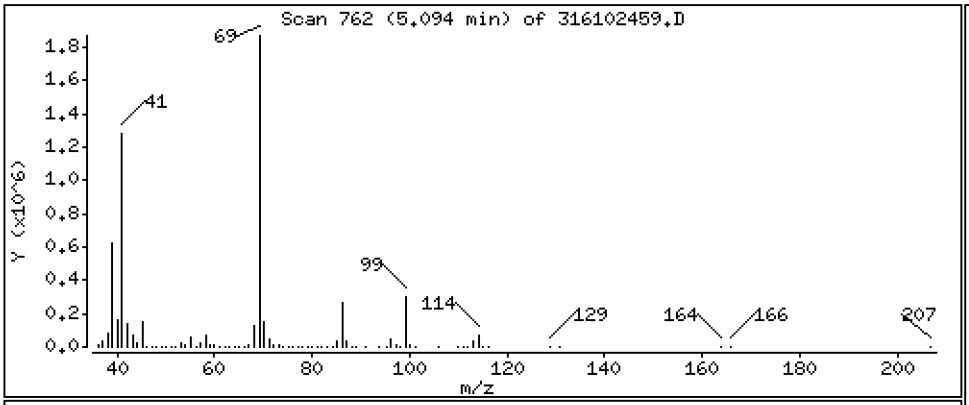
Client ID: Instrument: ms03.i

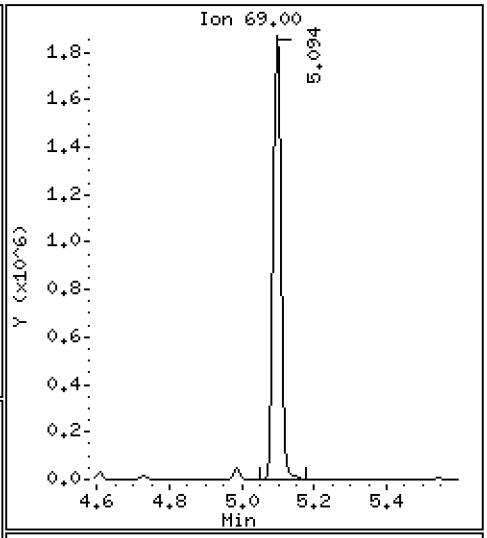
Sample Info: 1239;;1;1;6;;;

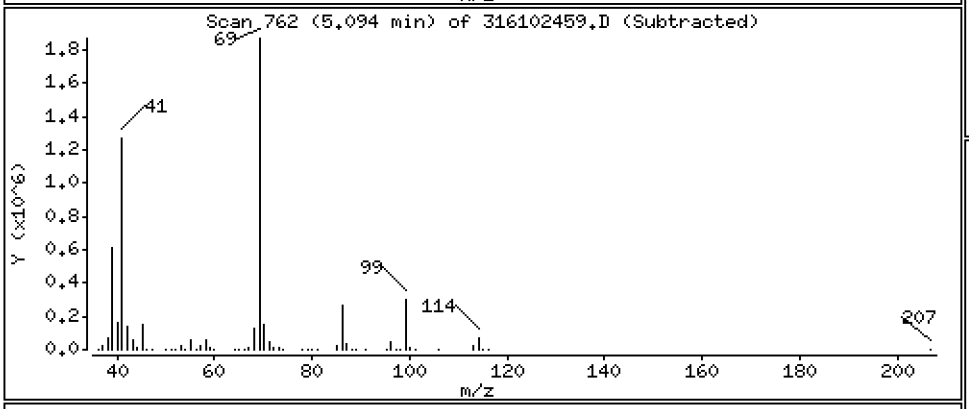
Purge Volume: 5.0 Operator: CJG

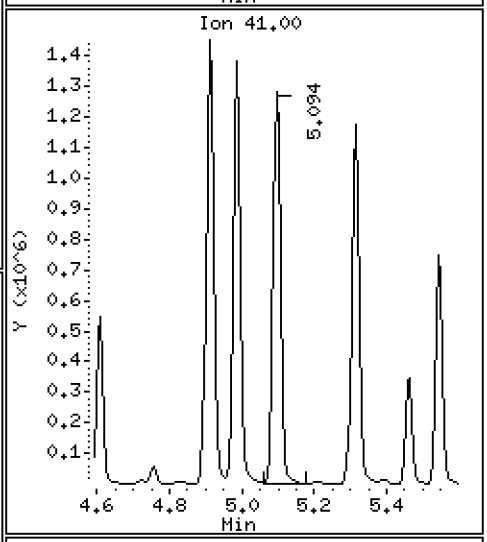
Column phase: DB-VRX Column diameter: 0.25

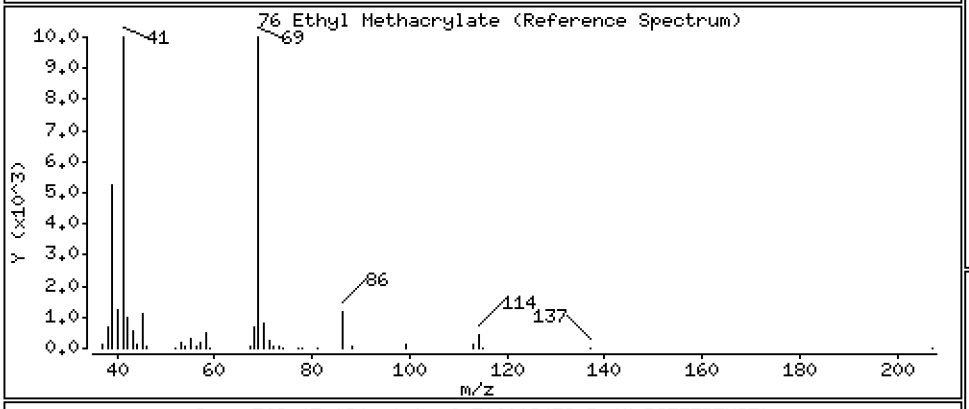
76 Ethyl Methacrylate Concentration: 199.915 ug/L

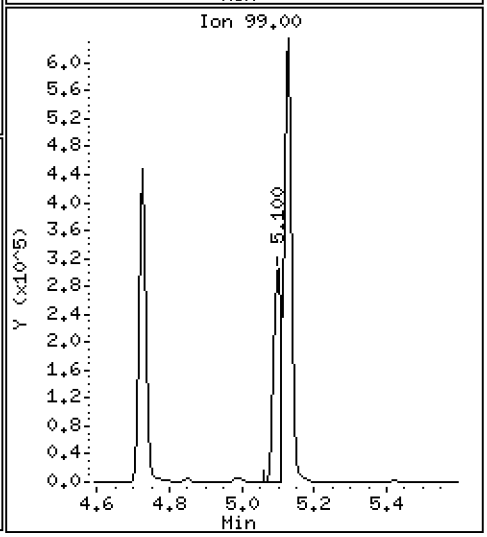


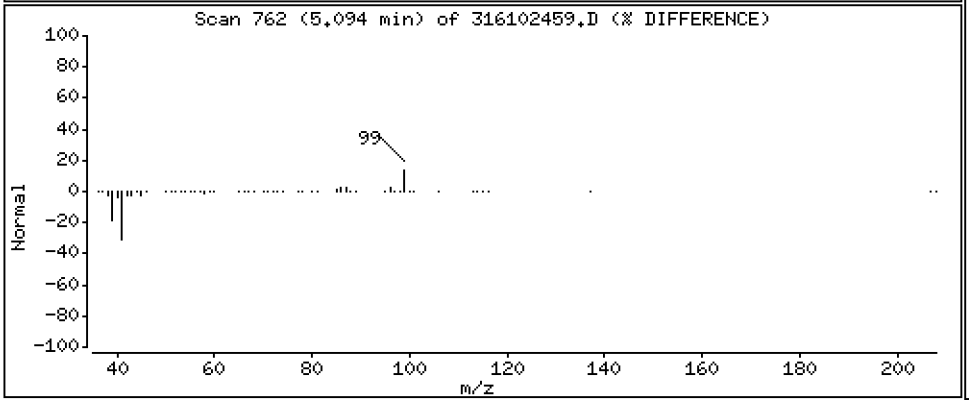












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 81

Date : 25-OCT-2016 01:36

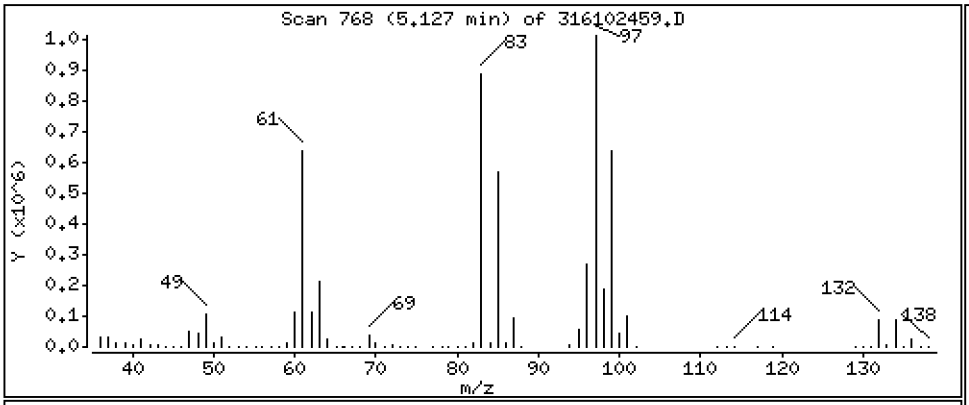
Client ID: Instrument: ms03.i

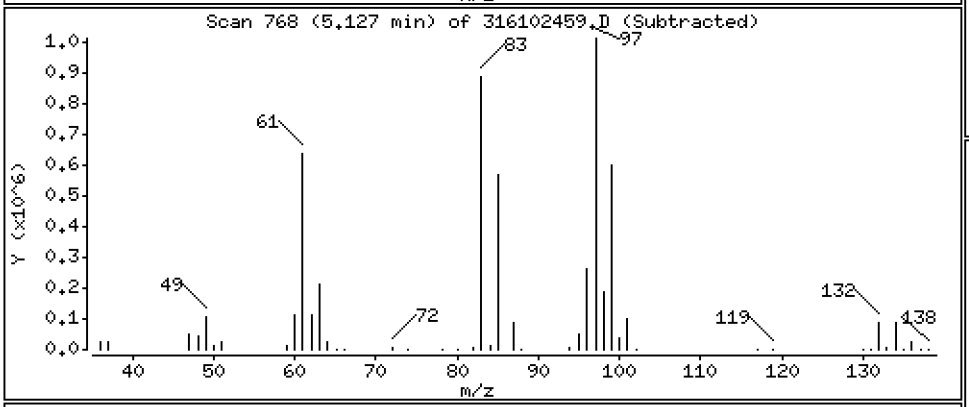
Sample Info: 1239;;1;1;6;;;

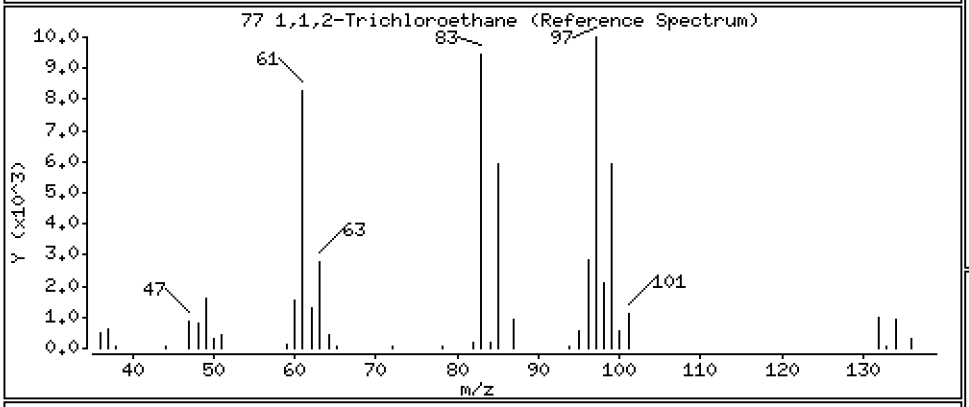
Purge Volume: 5.0 Operator: CJG

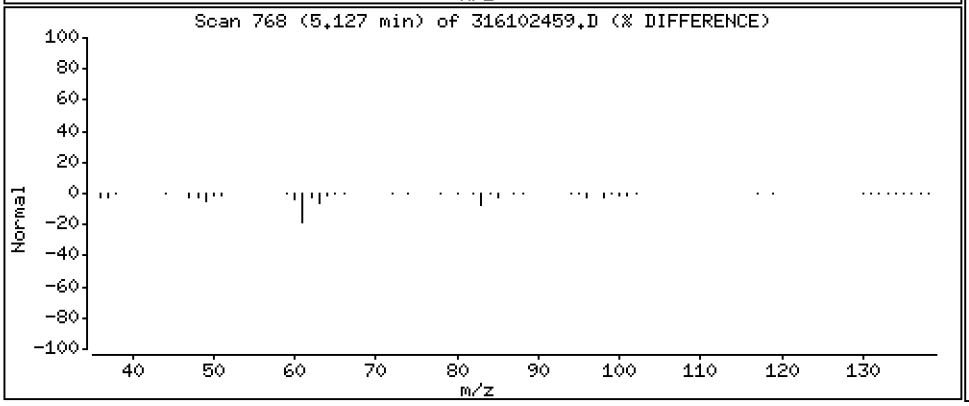
Column phase: DB-VRX Column diameter: 0.25

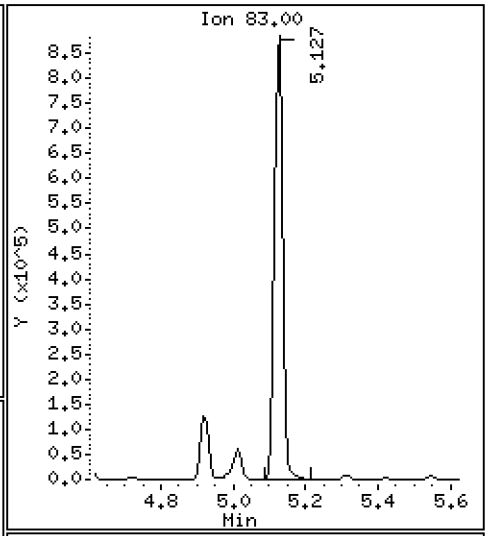
77 1,1,2-Trichloroethane Concentration: 200.122 ug/L

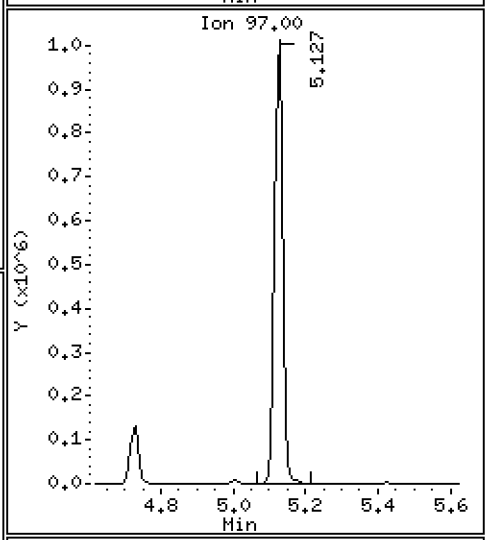


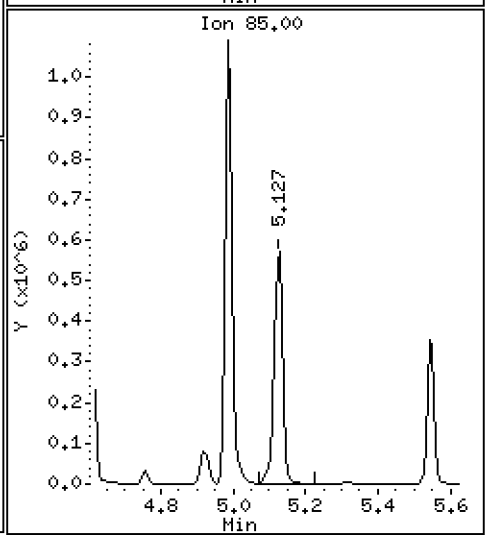












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 82

Date : 25-OCT-2016 01:36

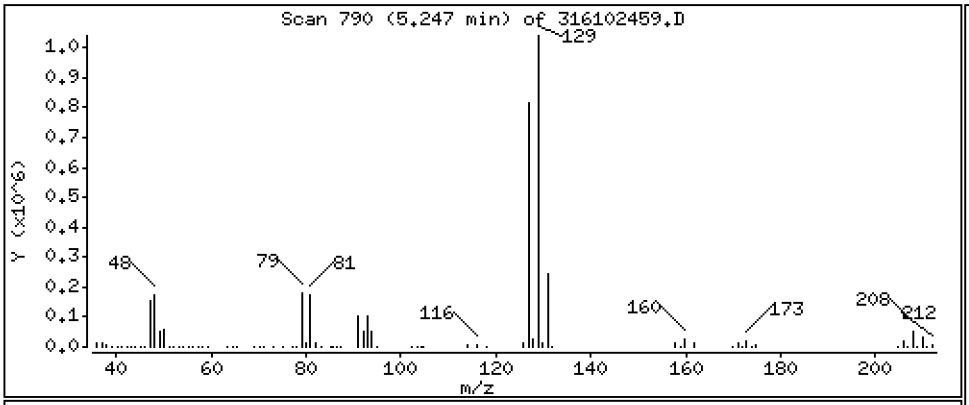
Client ID: Instrument: ms03.i

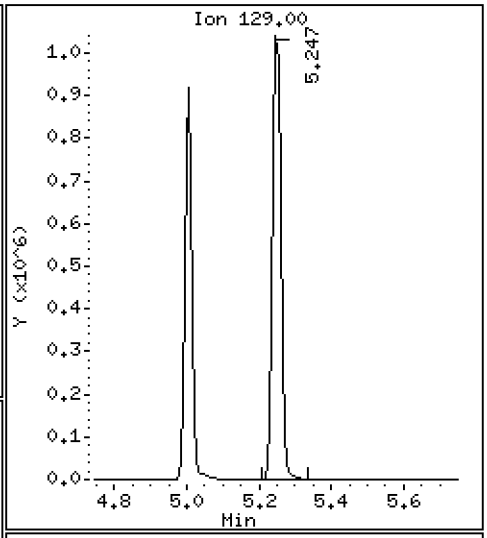
Sample Info: 1239;;1;1;6;;;

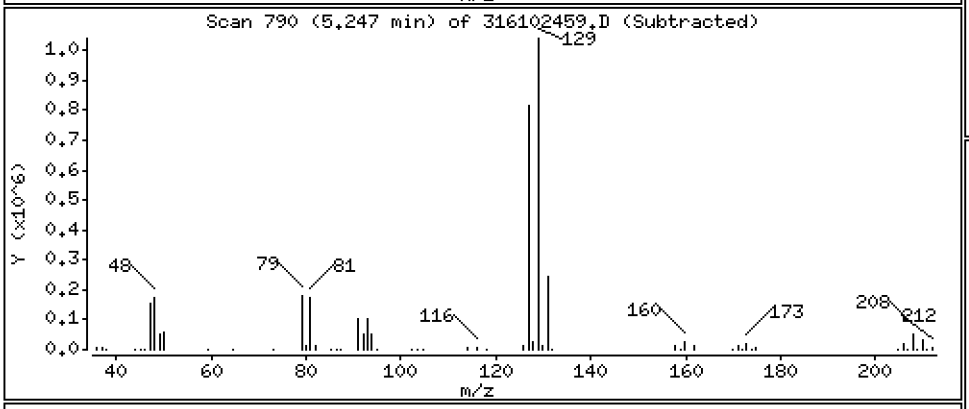
Purge Volume: 5.0 Operator: CJG

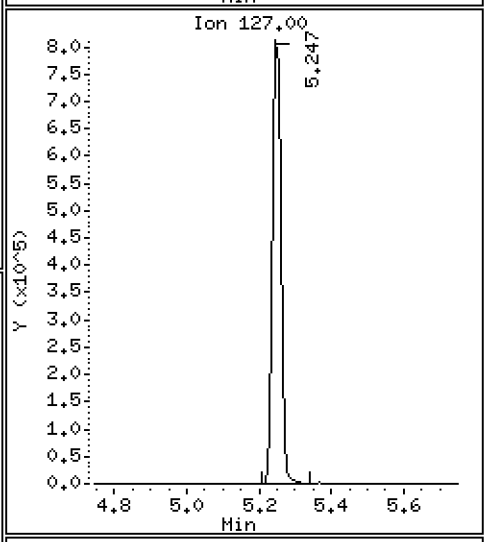
Column phase: DB-VRX Column diameter: 0.25

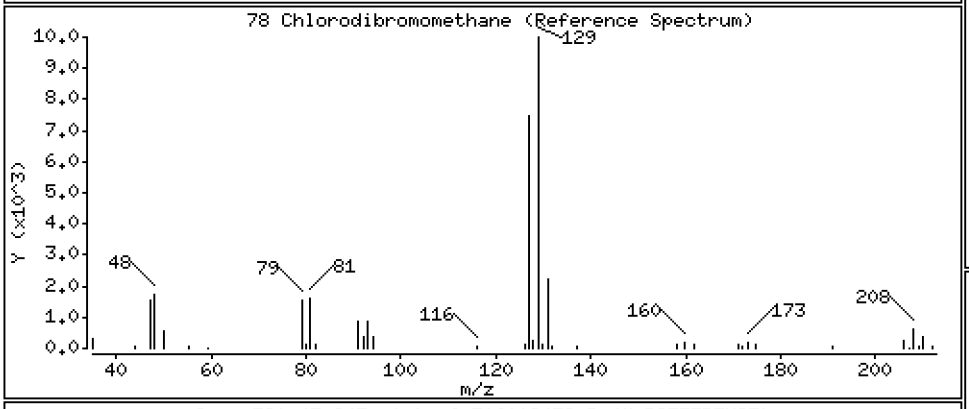
78 Chlorodibromomethane Concentration: 199.834 ug/L

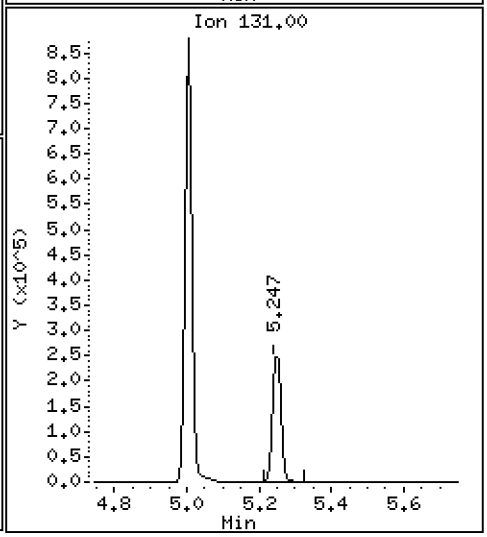


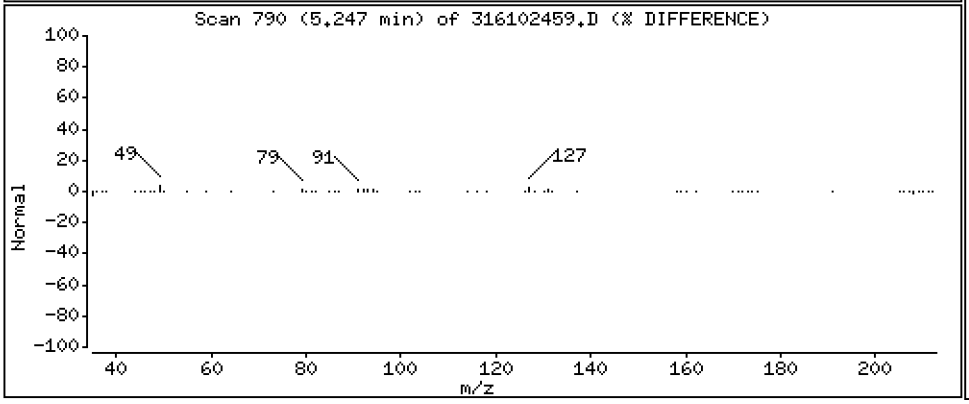












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 83

Date : 25-OCT-2016 01:36

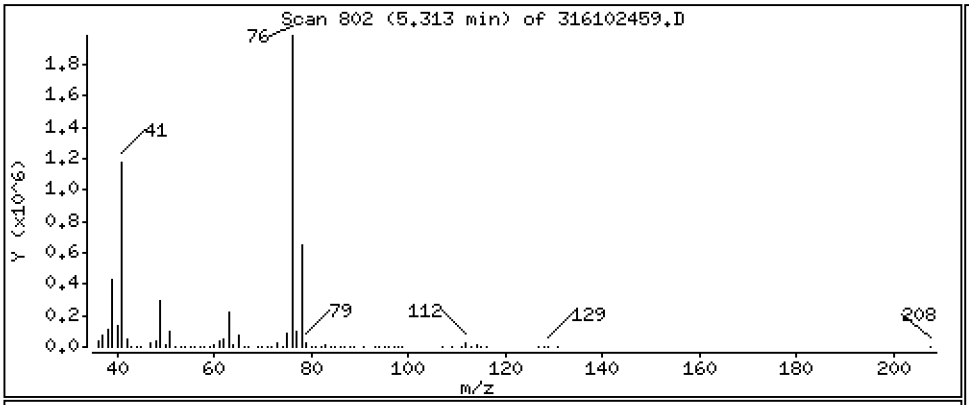
Client ID: Instrument: ms03.i

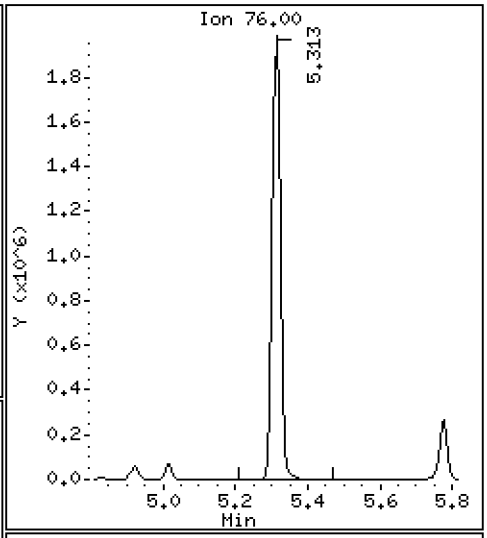
Sample Info: 1239;;1;1;6;;;

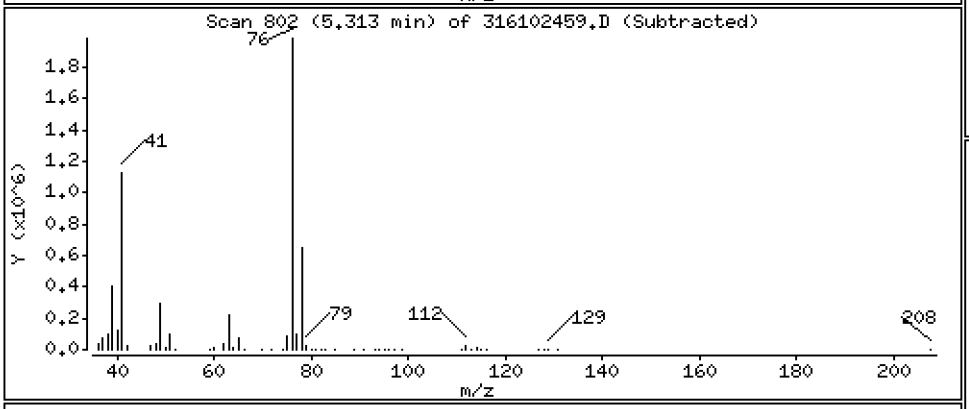
Purge Volume: 5.0 Operator: CJG

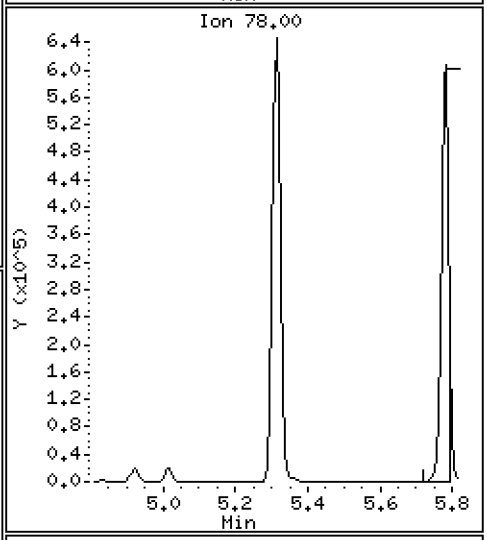
Column phase: DB-VRX Column diameter: 0.25

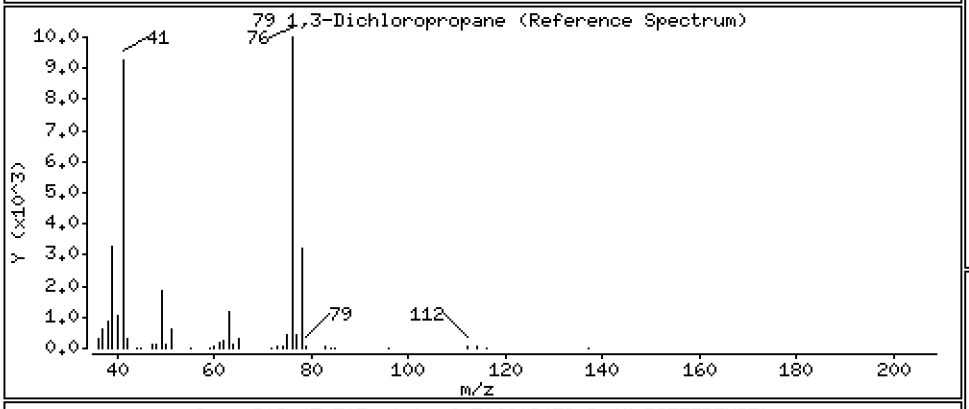
79 1,3-Dichloropropane Concentration: 200.110 ug/L

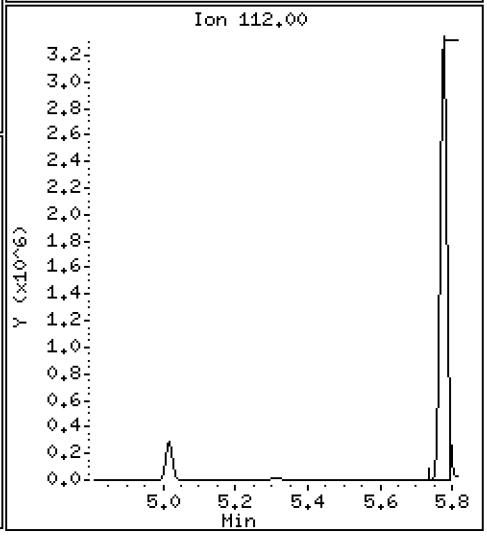


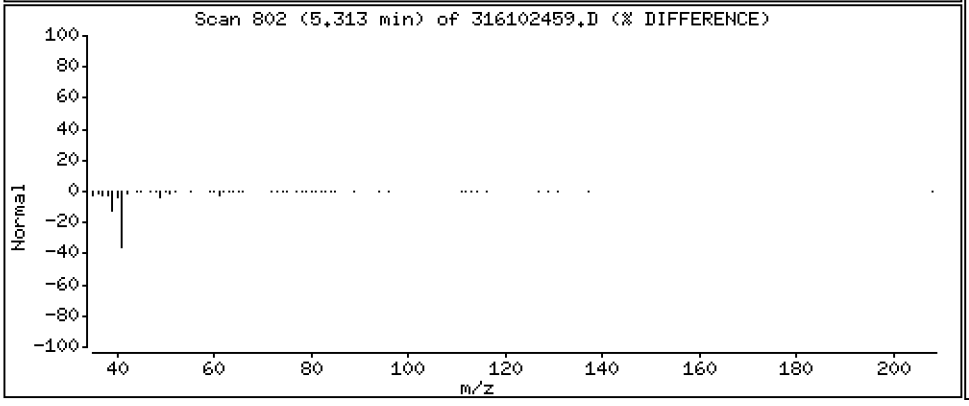












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 84

Date : 25-OCT-2016 01:36

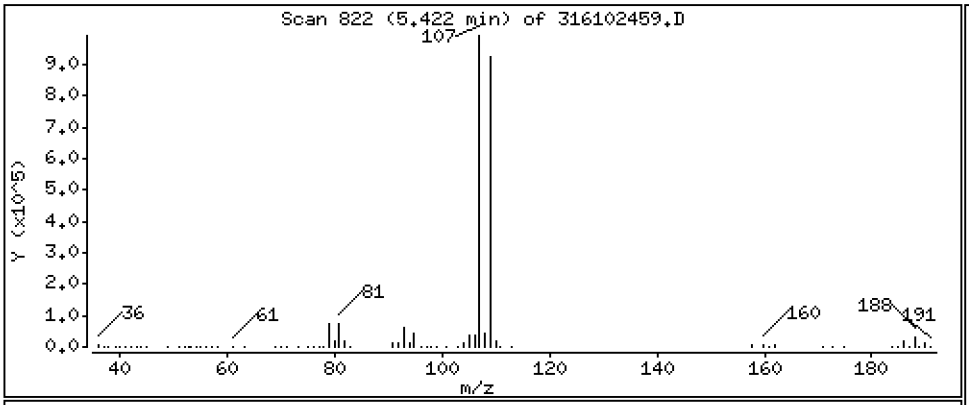
Client ID: Instrument: ms03.i

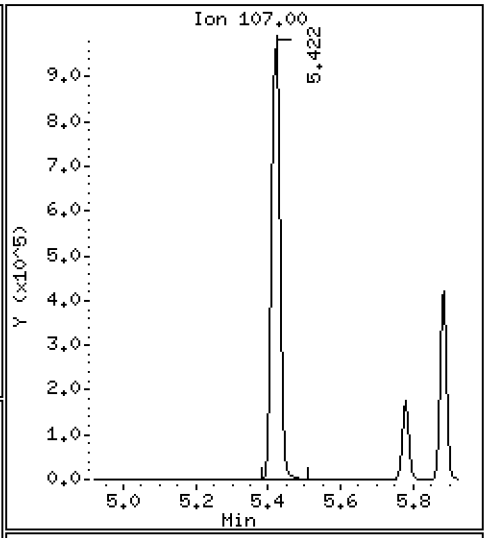
Sample Info: 1239;;1;1;6;;;

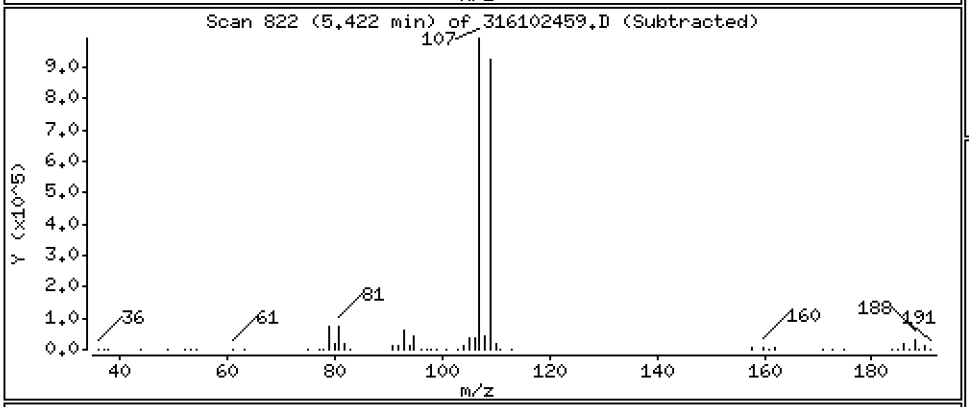
Purge Volume: 5.0 Operator: CJG

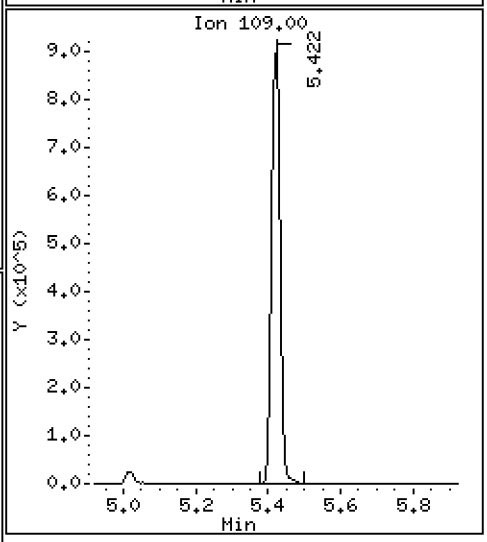
Column phase: DB-VRX Column diameter: 0.25

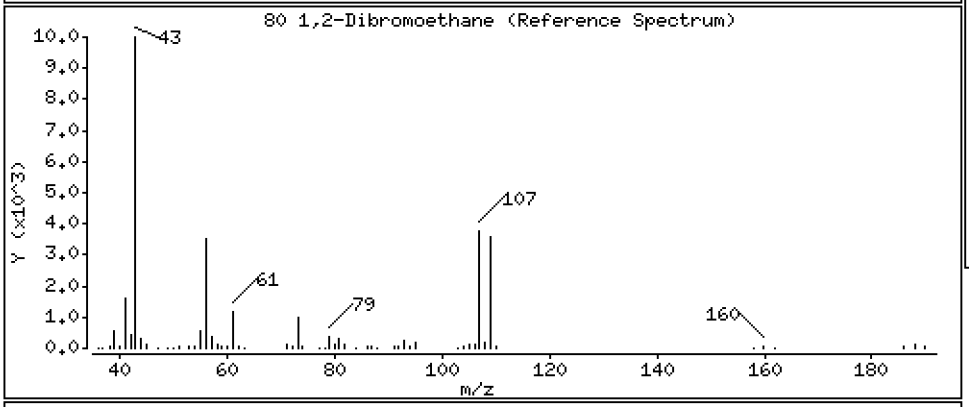
80 1,2-Dibromoethane Concentration: 200.001 ug/L

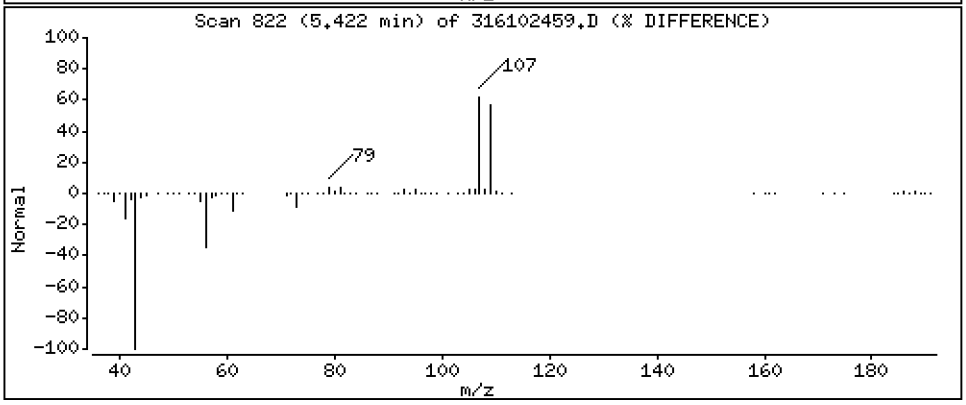












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 85

Date : 25-OCT-2016 01:36

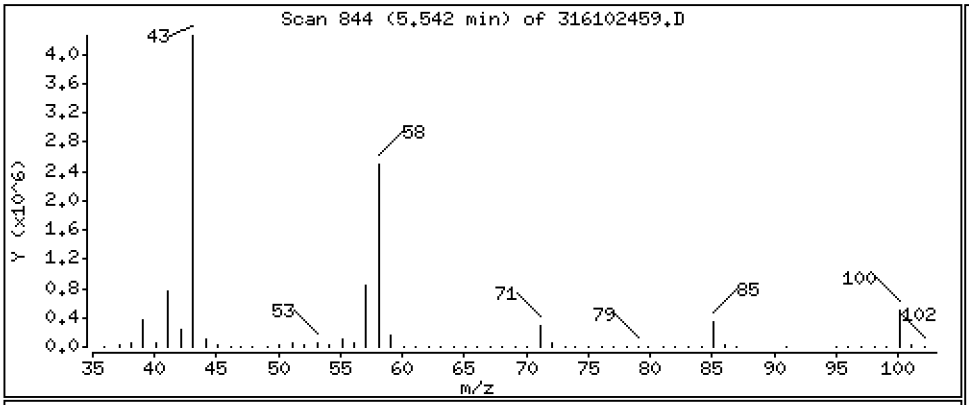
Client ID: Instrument: ms03.i

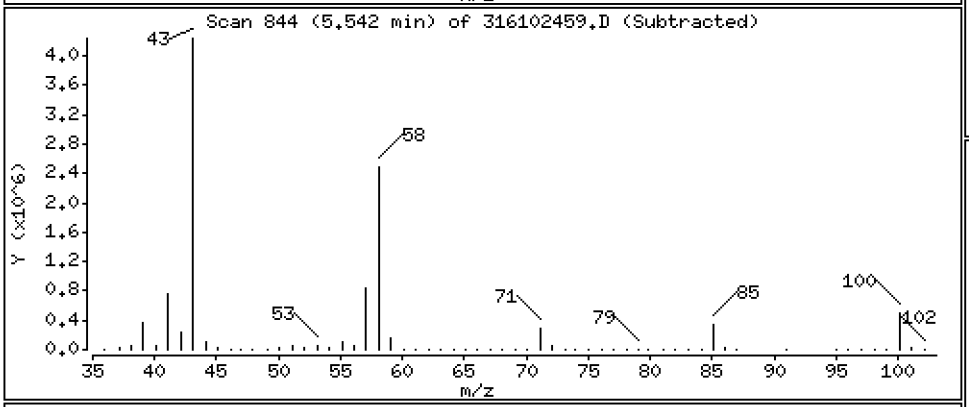
Sample Info: 1239;;1;1;6;;;

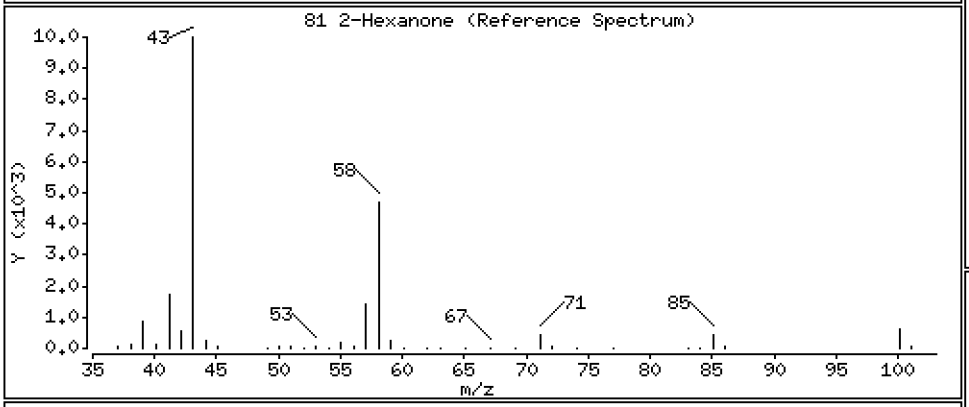
Purge Volume: 5.0 Operator: CJG

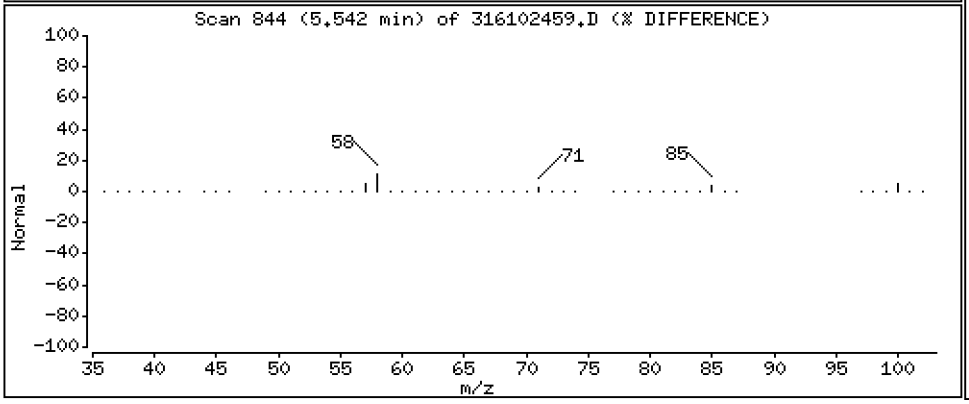
Column phase: DB-VRX Column diameter: 0.25

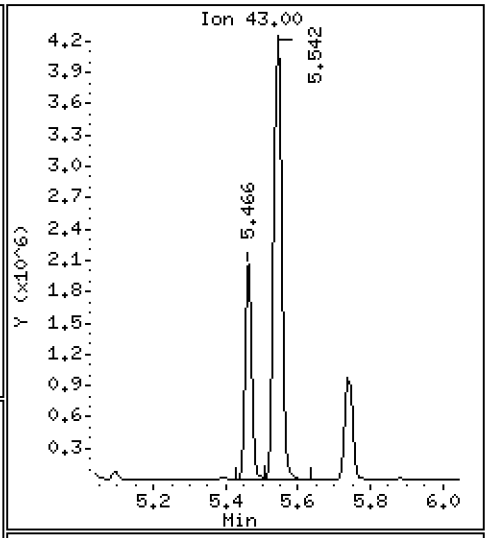
81 2-Hexanone Concentration: 1000.08 ug/L

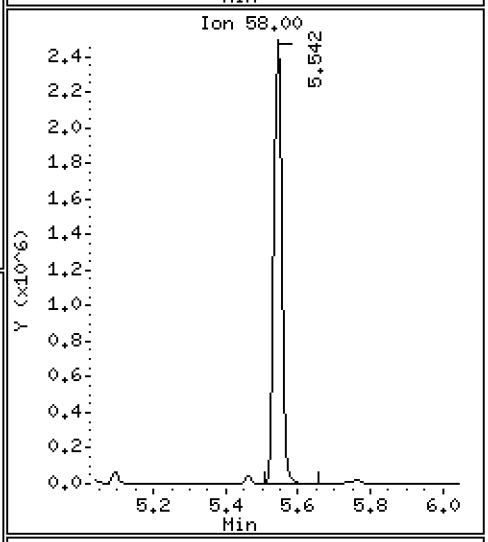


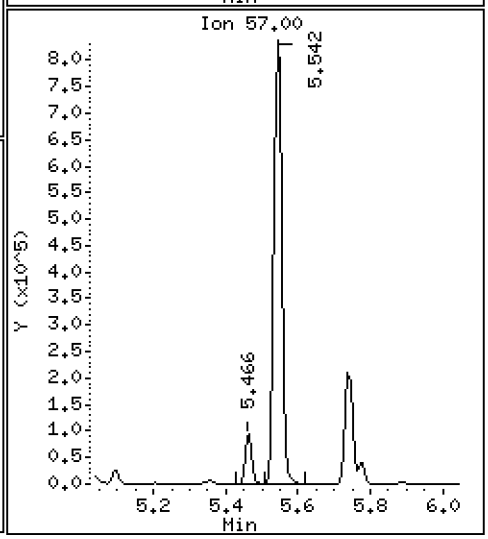












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 86

Date : 25-OCT-2016 01:36

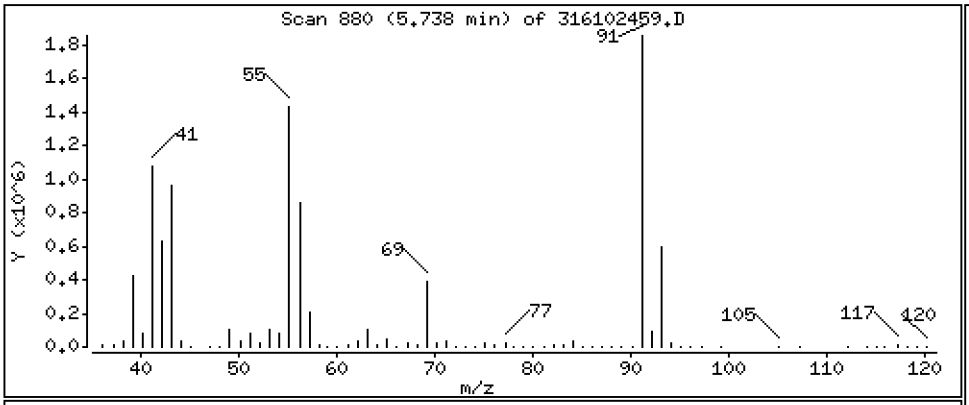
Client ID: Instrument: ms03.i

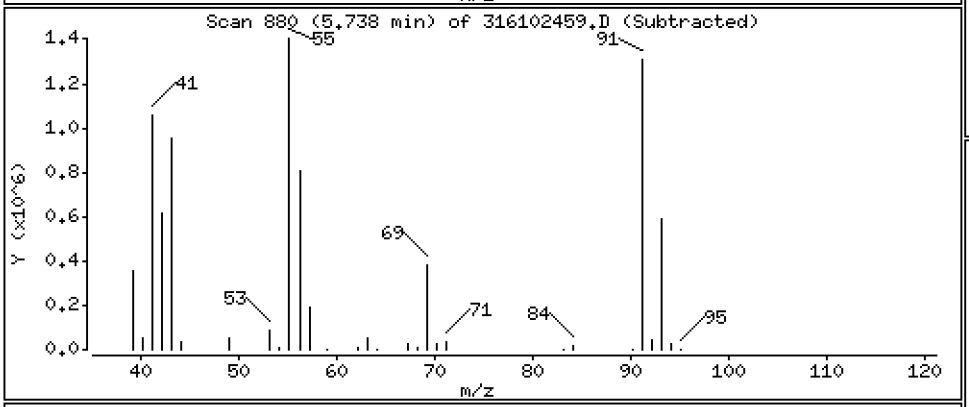
Sample Info: 1239;;1;1;6;;;

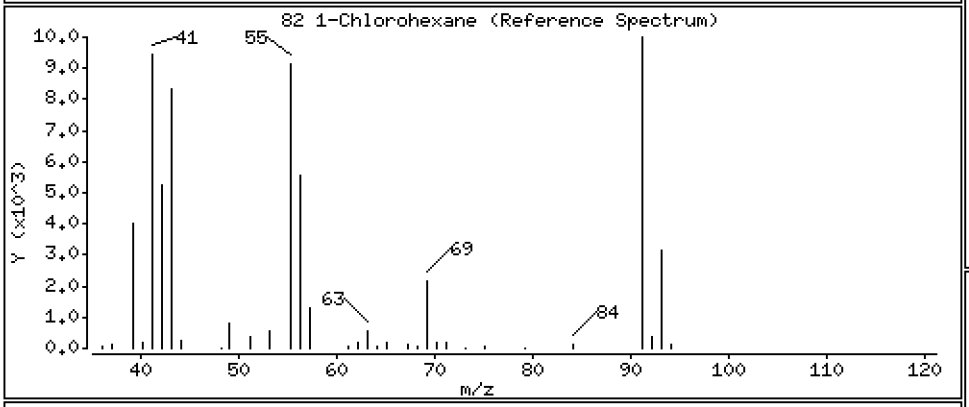
Purge Volume: 5.0 Operator: CJG

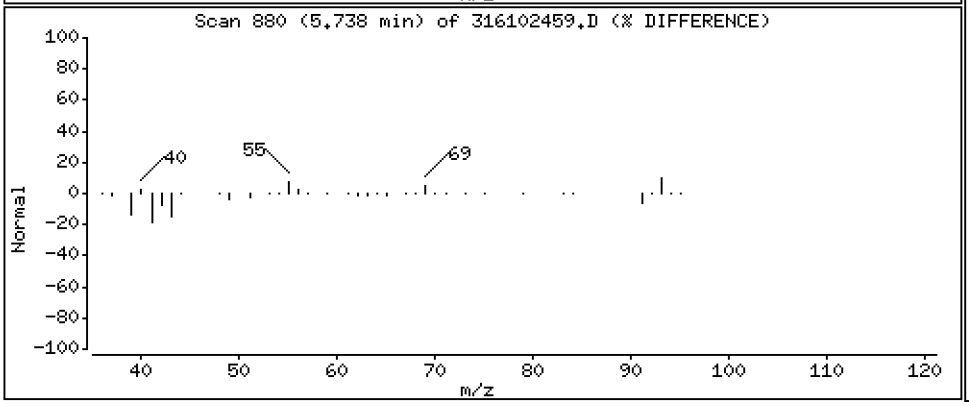
Column phase: DB-VRX Column diameter: 0.25

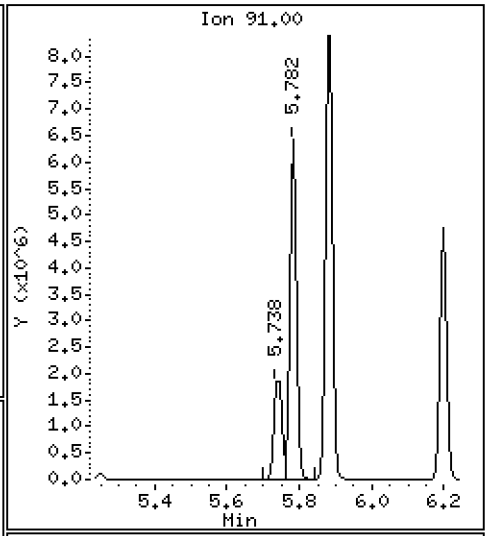
82 1-Chlorohexane Concentration: 199.762 ug/L

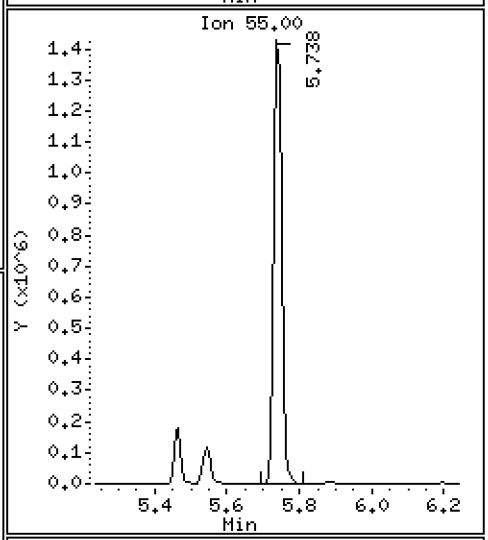


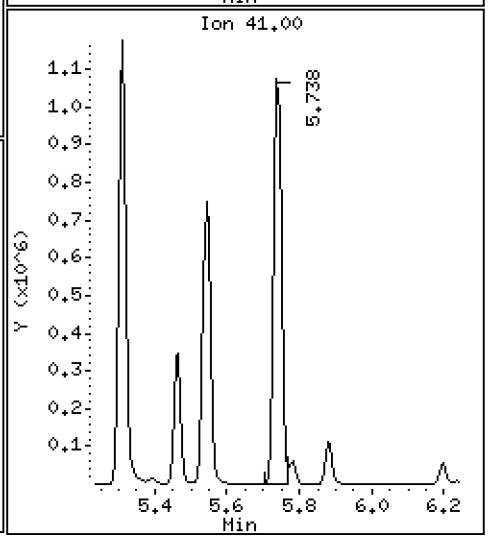












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 87

Date : 25-OCT-2016 01:36

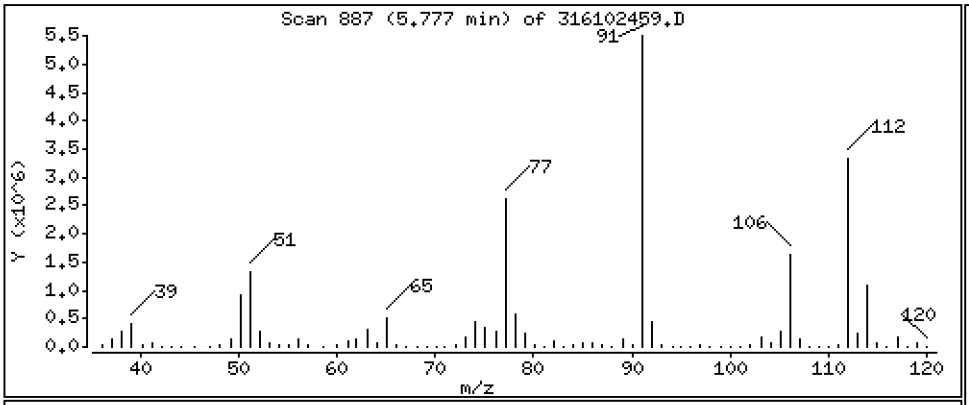
Client ID: Instrument: ms03.i

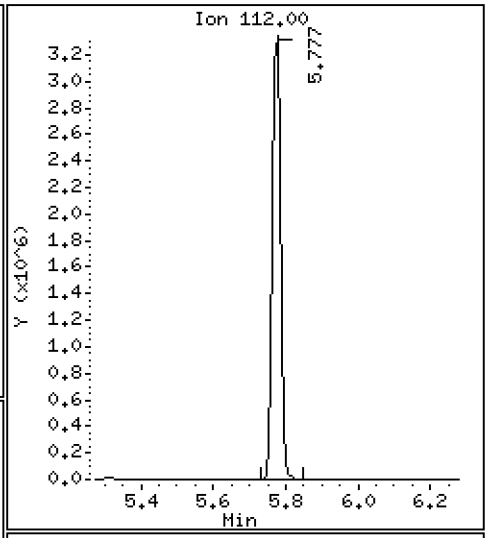
Sample Info: 1239;;1;1;6;;;

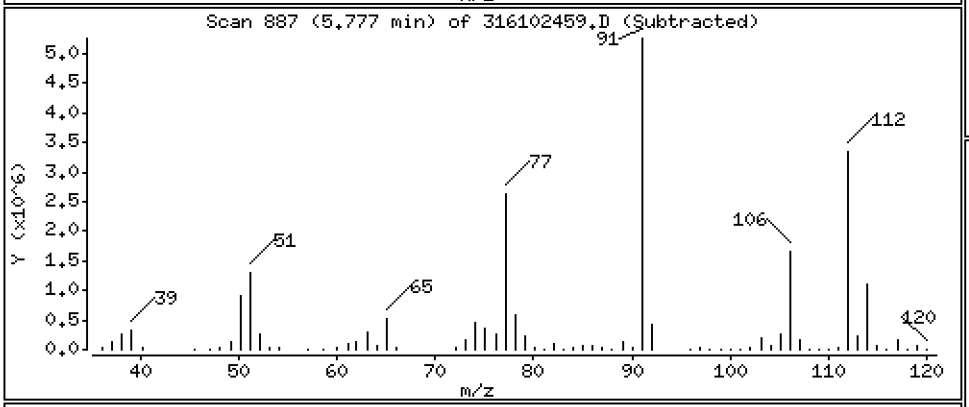
Purge Volume: 5.0 Operator: CJG

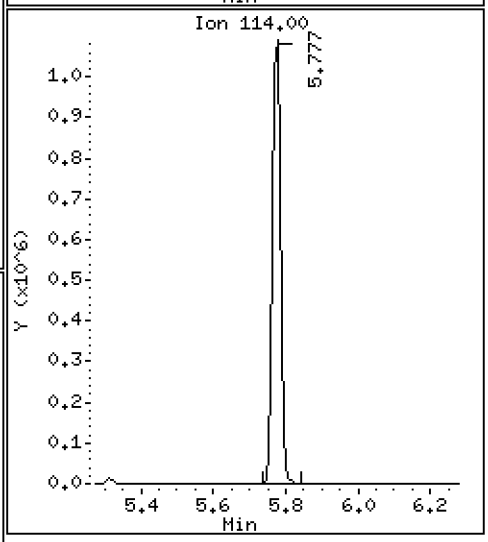
Column phase: DB-VRX Column diameter: 0.25

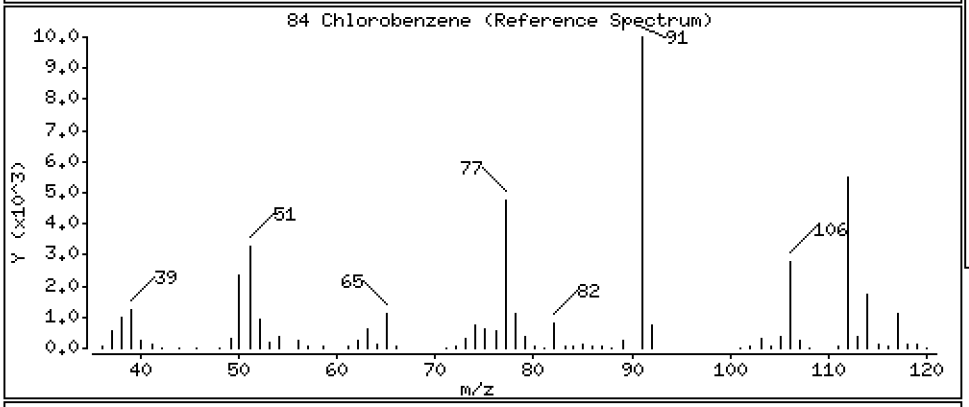
84 Chlorobenzene Concentration: 200.088 ug/L

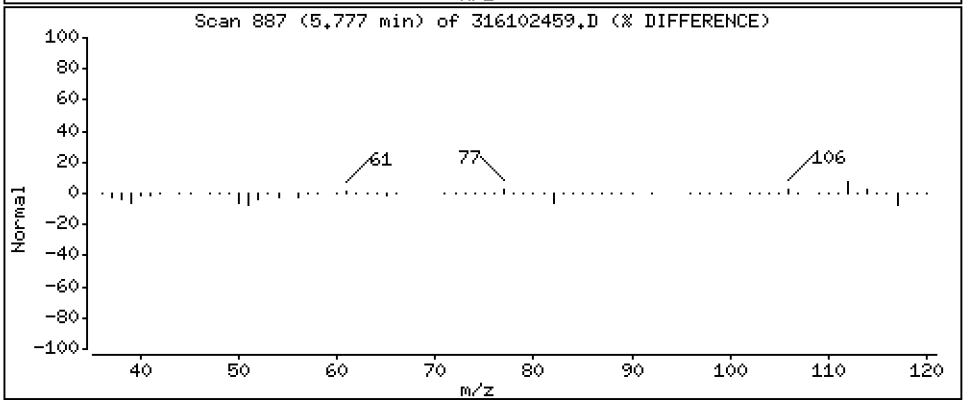












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 88

Date : 25-OCT-2016 01:36

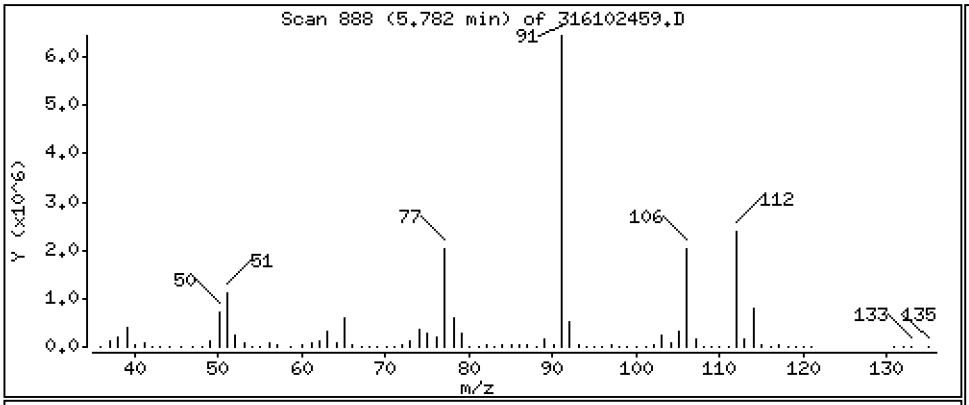
Client ID: Instrument: ms03.i

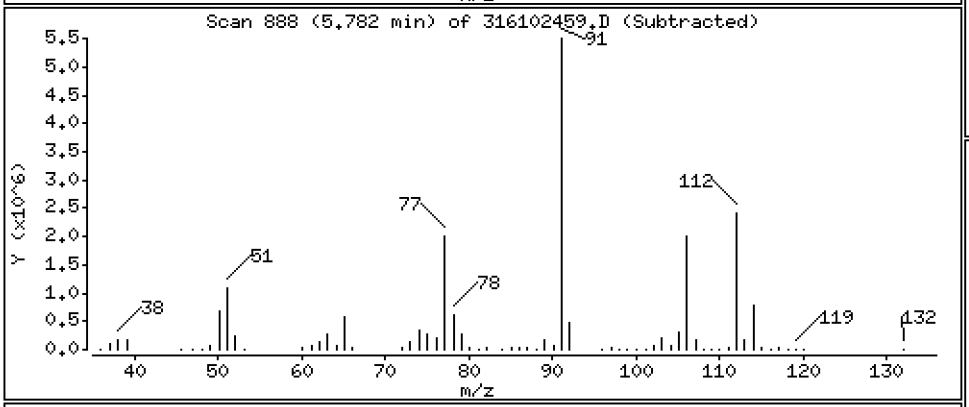
Sample Info: 1239;;1;1;6;;;

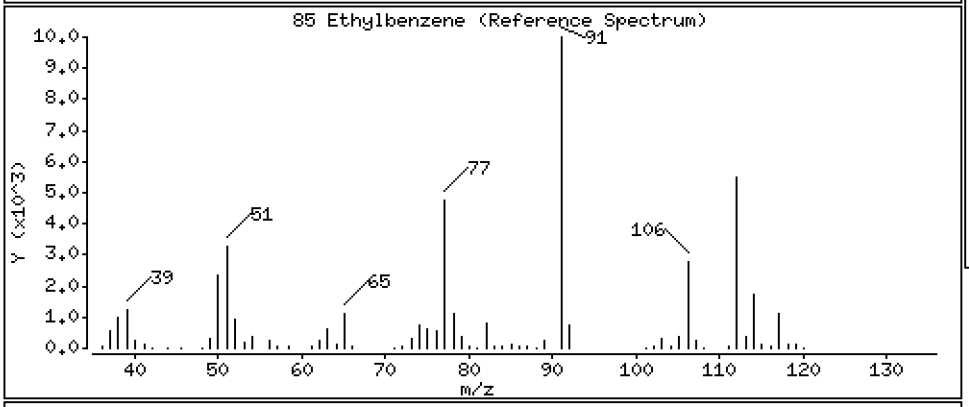
Purge Volume: 5.0 Operator: CJG

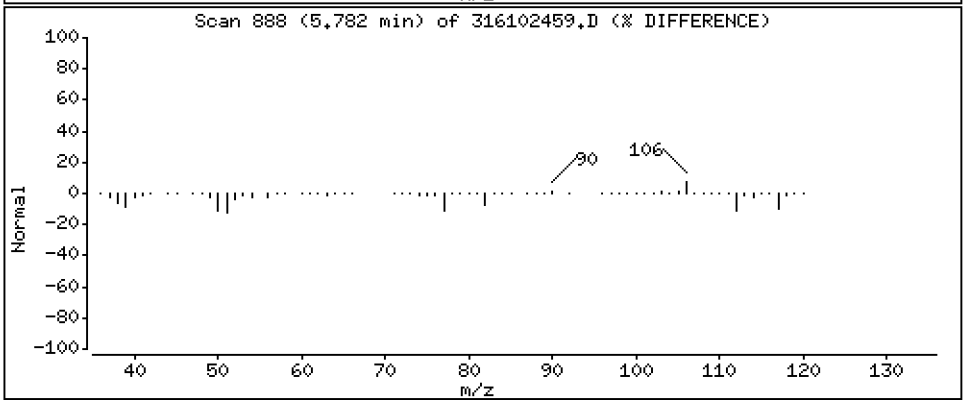
Column phase: DB-VRX Column diameter: 0.25

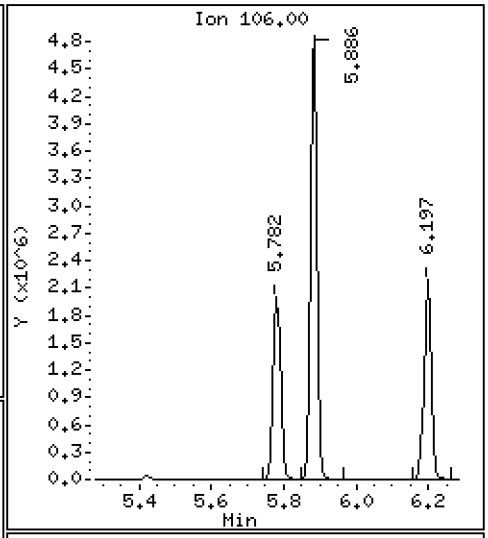
85 Ethylbenzene Concentration: 200.070 ug/L

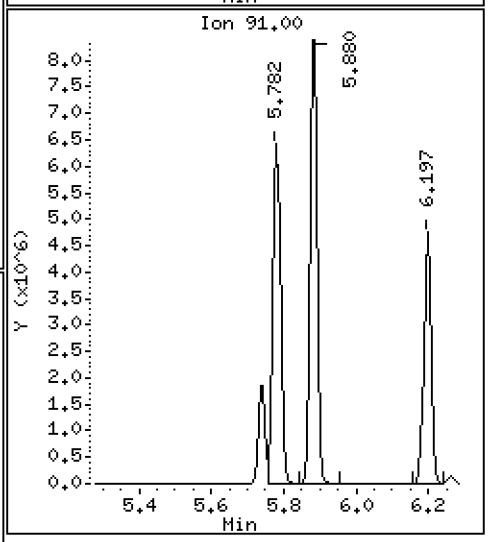












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 89

Date : 25-OCT-2016 01:36

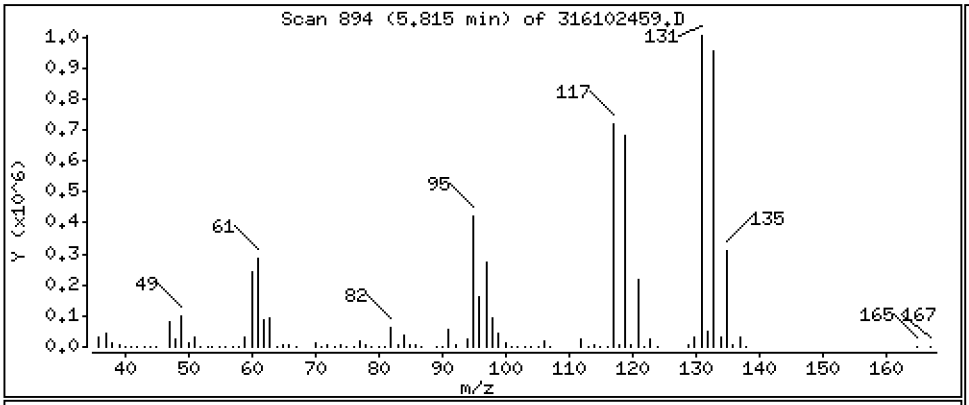
Client ID: Instrument: ms03.i

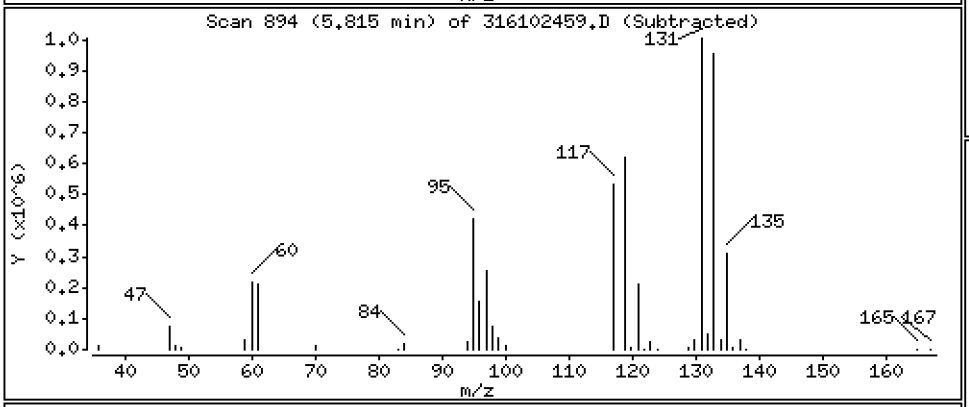
Sample Info: 1239;;1;1;6;;;

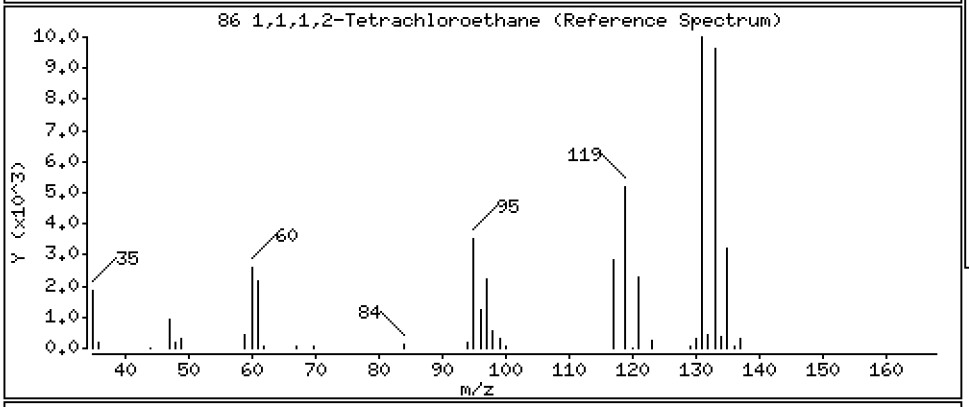
Purge Volume: 5.0 Operator: CJG

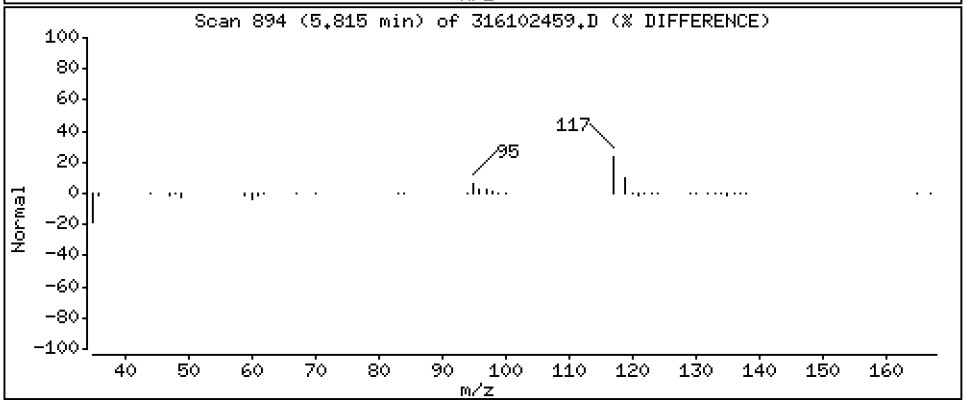
Column phase: DB-VRX Column diameter: 0.25

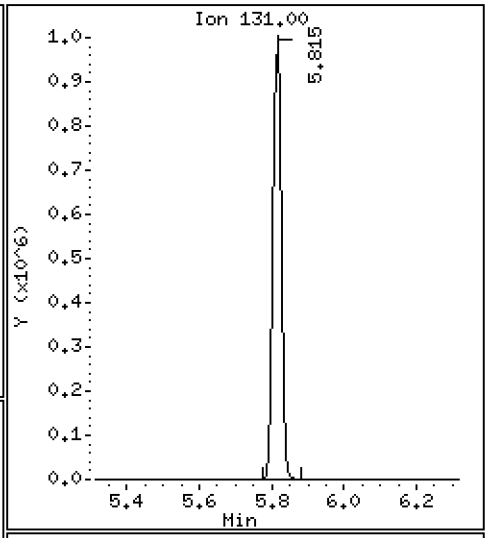
86 1,1,1,2-Tetrachloroethane Concentration: 199.950 ug/L

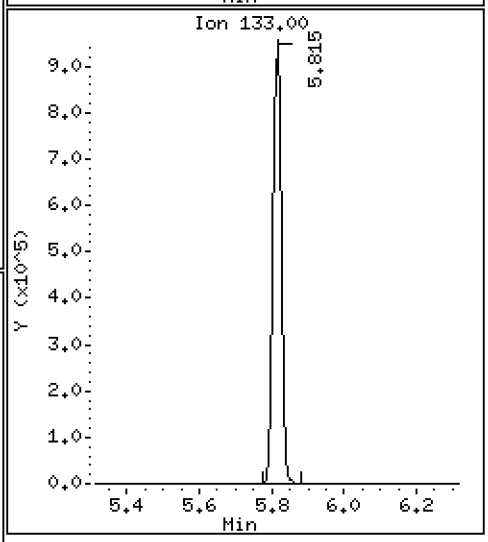












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 90

Date : 25-OCT-2016 01:36

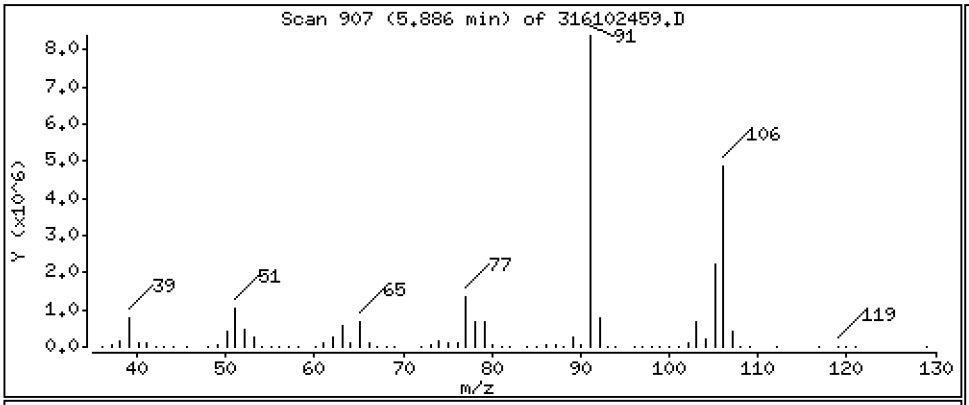
Client ID: Instrument: ms03.i

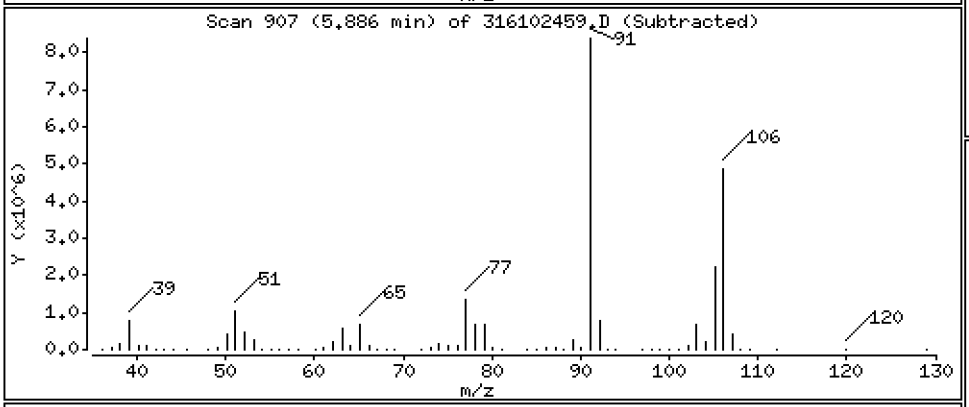
Sample Info: 1239;;1;1;6;;;

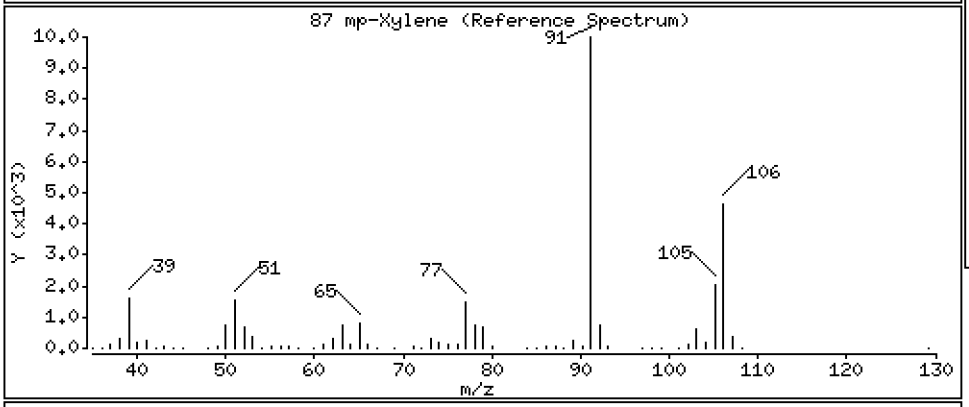
Purge Volume: 5.0 Operator: CJG

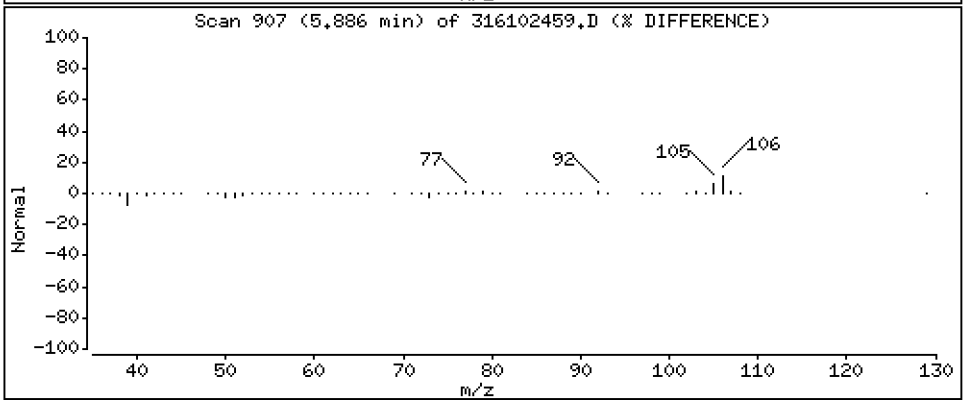
Column phase: DB-VRX Column diameter: 0.25

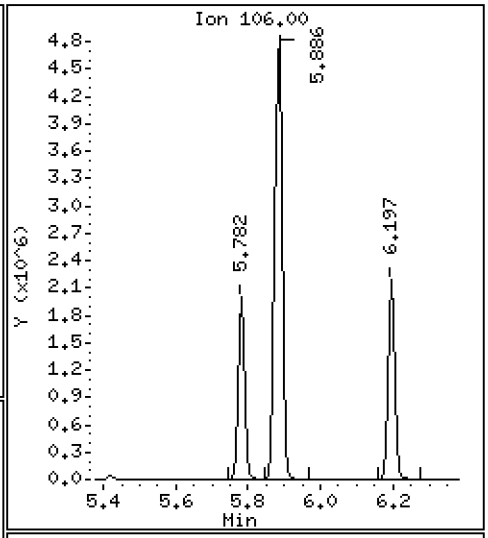
87 mp-Xylene Concentration: 400.106 ug/L

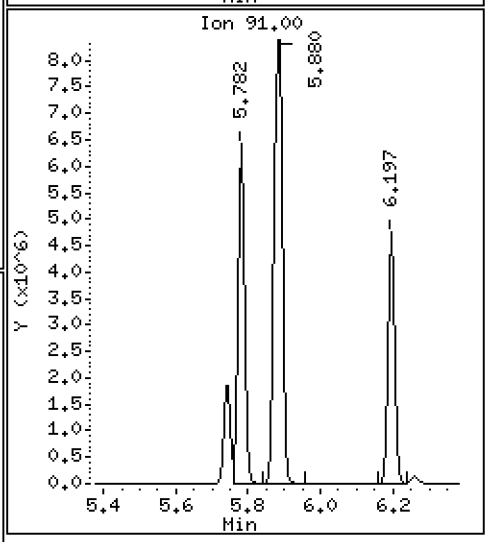












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 91

Date : 25-OCT-2016 01:36

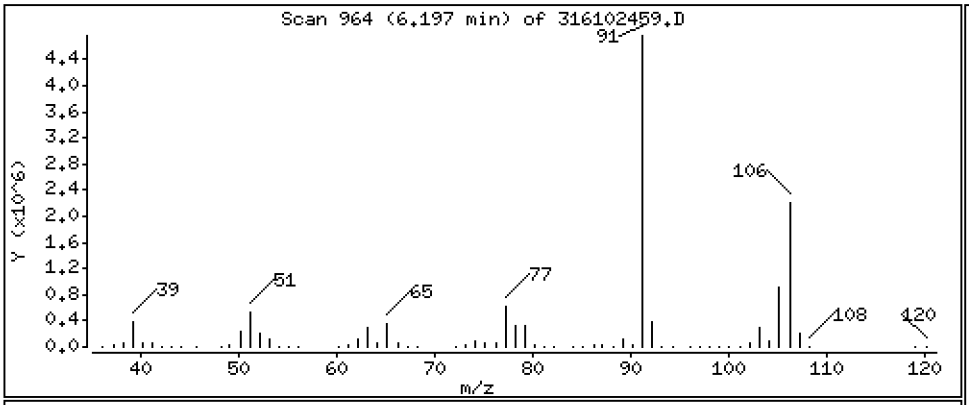
Client ID: Instrument: ms03.i

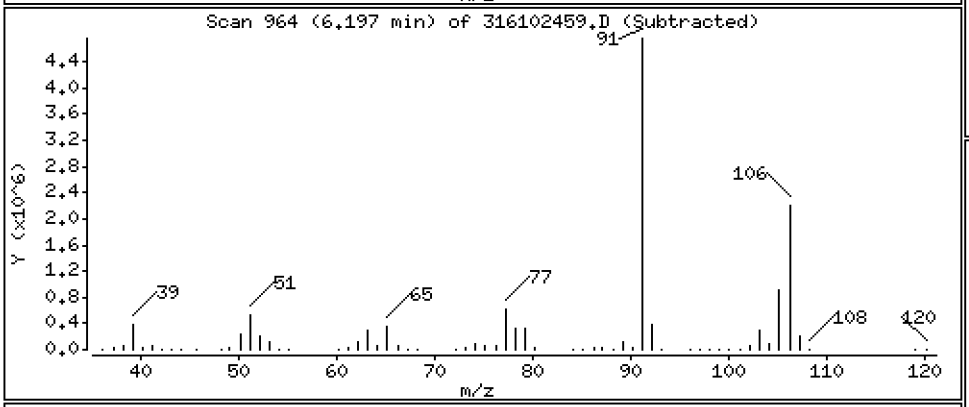
Sample Info: 1239;;1;1;6;;;

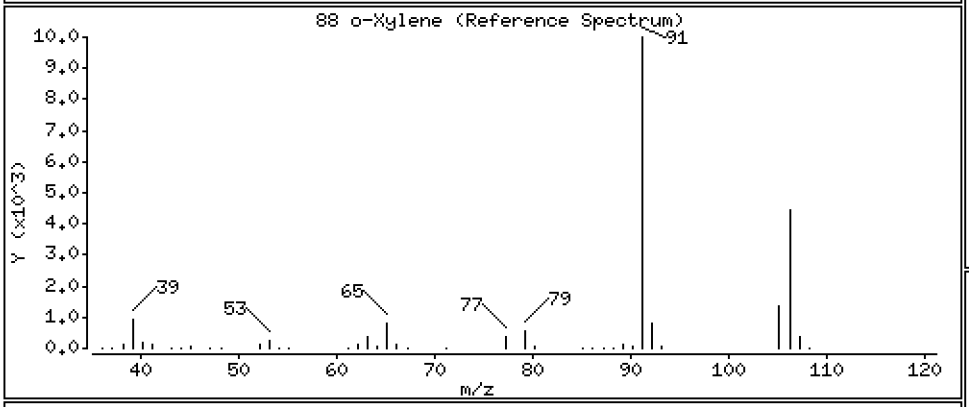
Purge Volume: 5.0 Operator: CJG

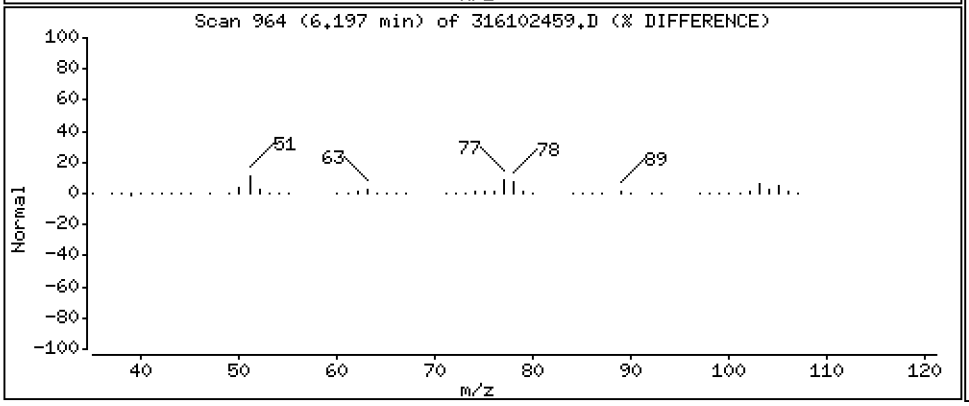
Column phase: DB-VRX Column diameter: 0.25

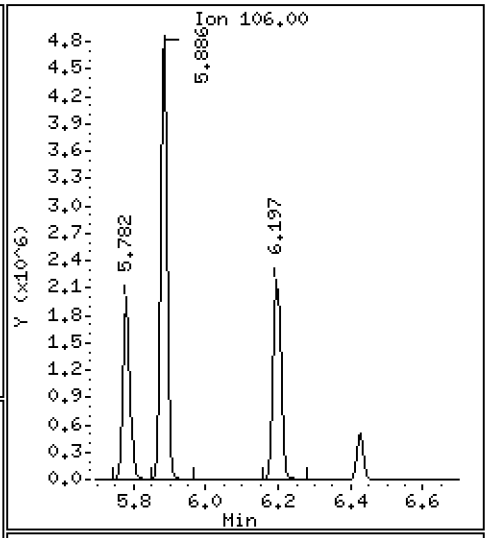
88 o-Xylene Concentration: 199.876 ug/L

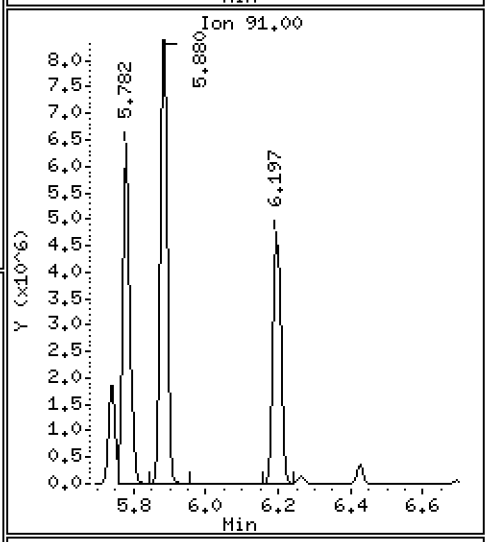


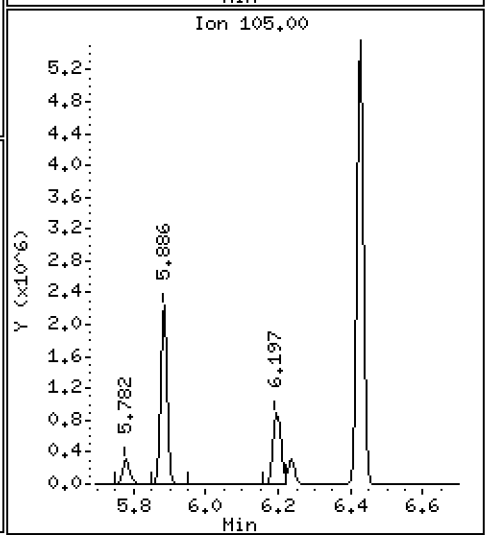












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 92

Date : 25-OCT-2016 01:36

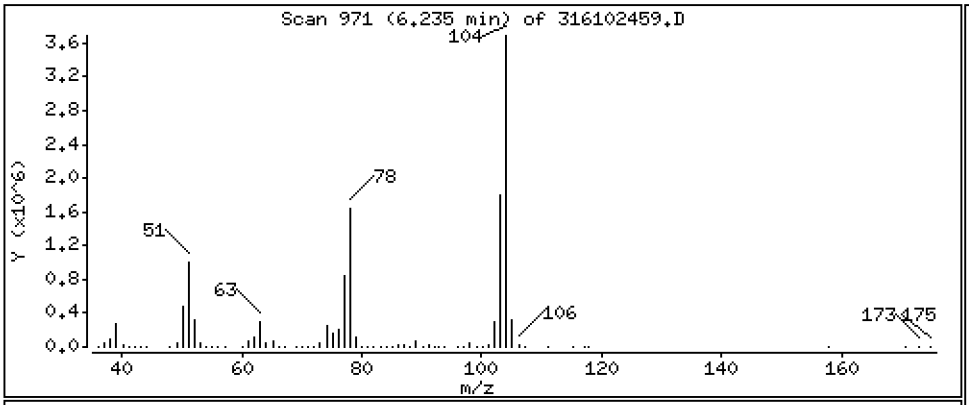
Client ID: Instrument: ms03.i

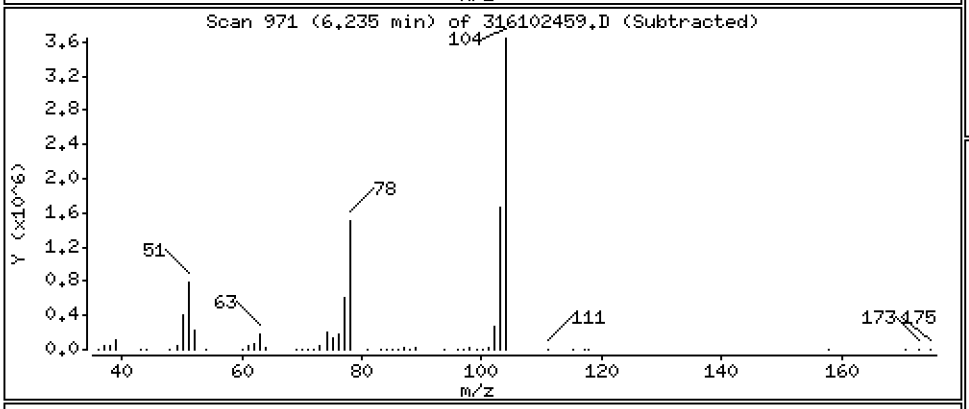
Sample Info: 1239;;1;1;6;;;

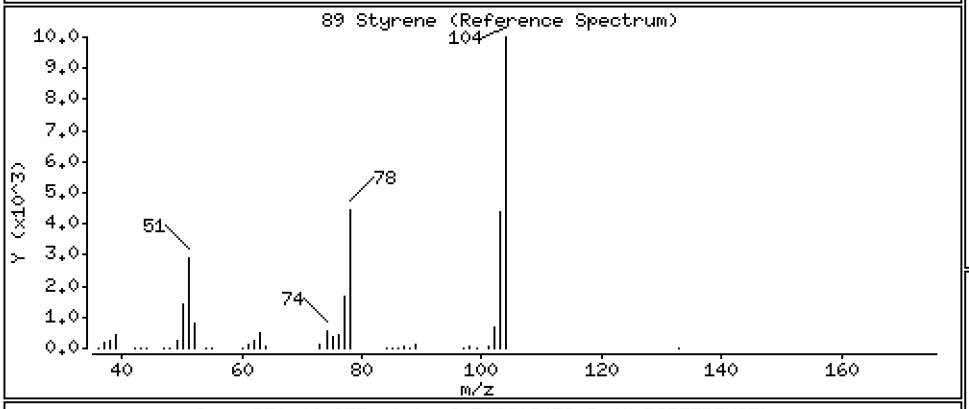
Purge Volume: 5.0 Operator: CJG

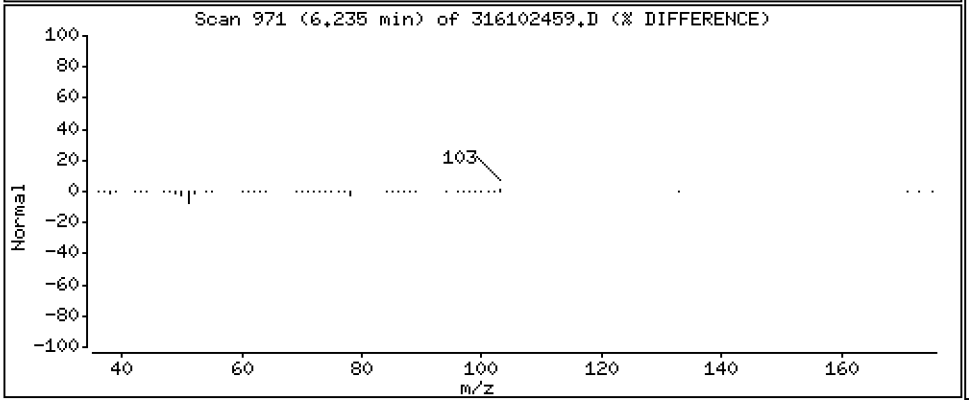
Column phase: DB-VRX Column diameter: 0.25

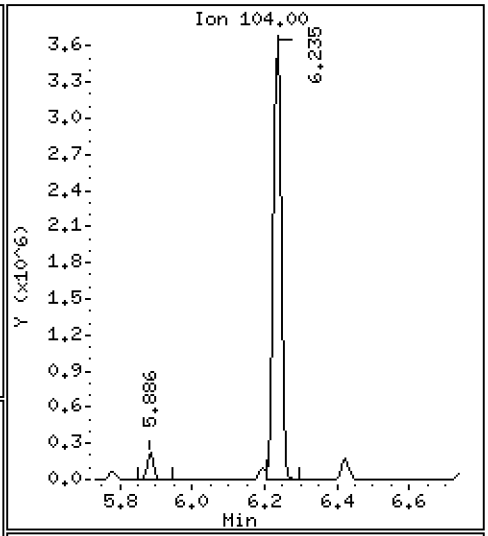
89 Styrene Concentration: 199.890 ug/L

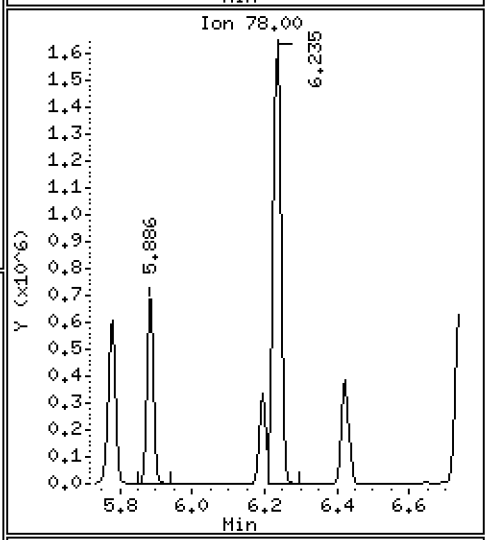


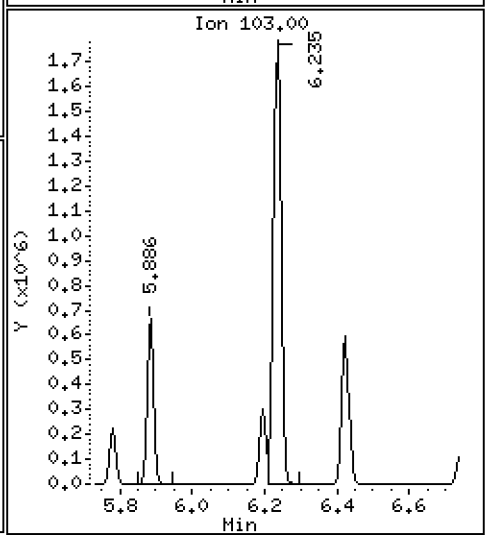












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 93

Date : 25-OCT-2016 01:36

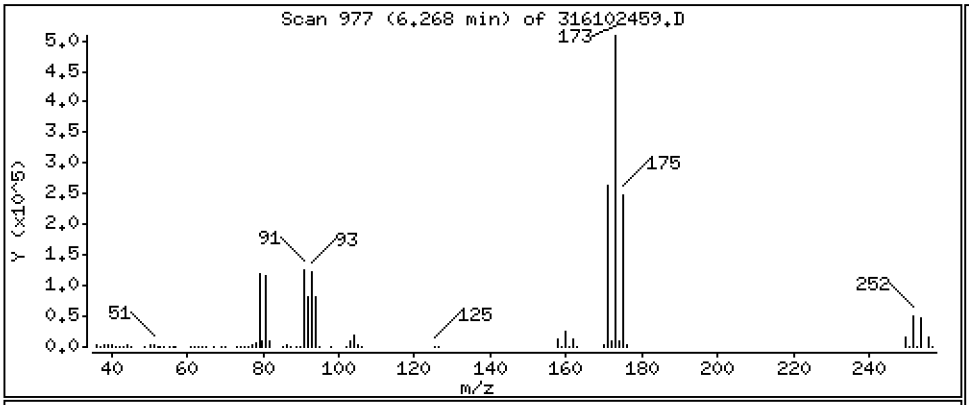
Client ID: Instrument: ms03.i

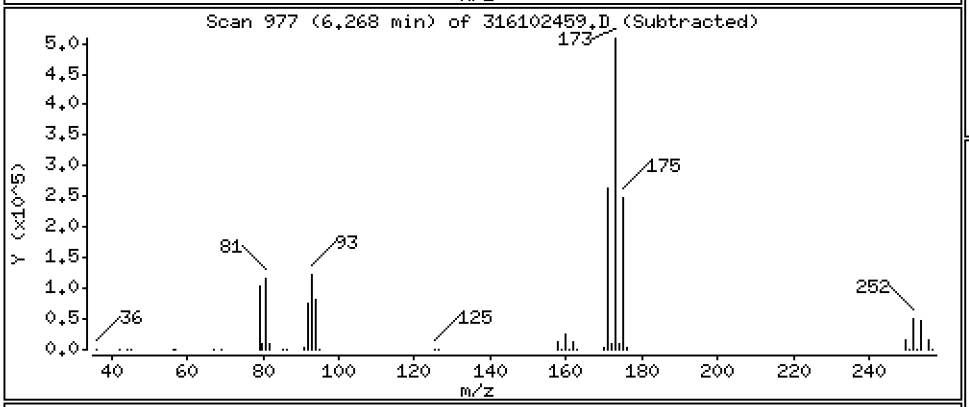
Sample Info: 1239;;1;1;6;;;

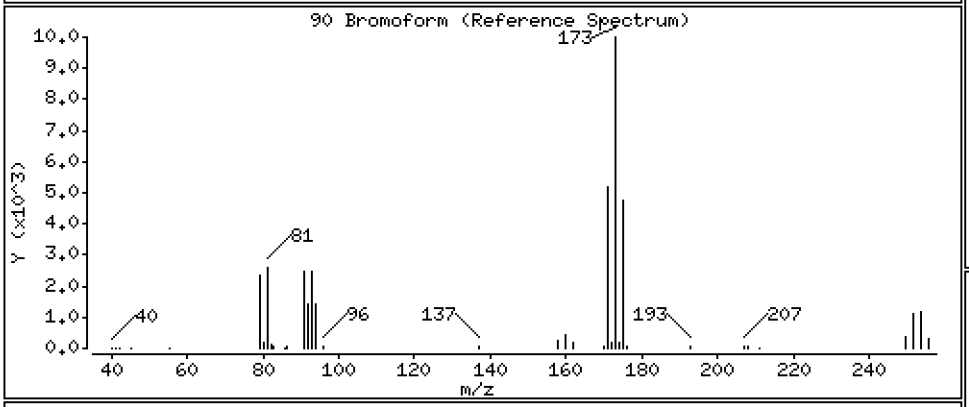
Purge Volume: 5.0 Operator: CJG

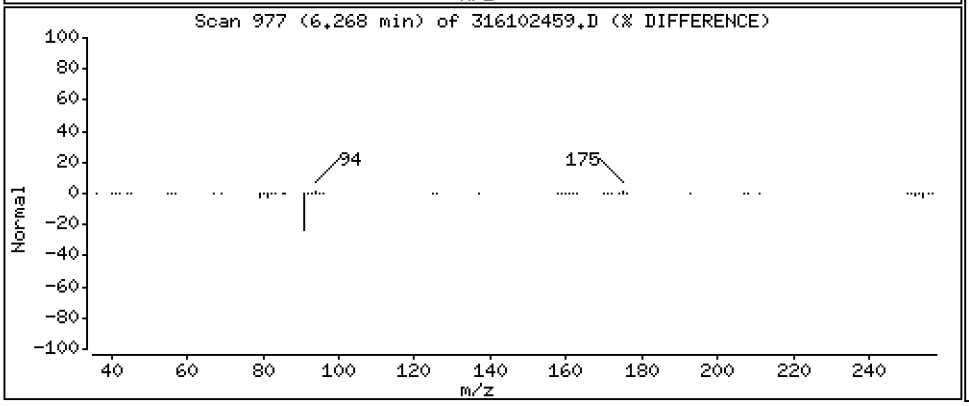
Column phase: DB-VRX Column diameter: 0.25

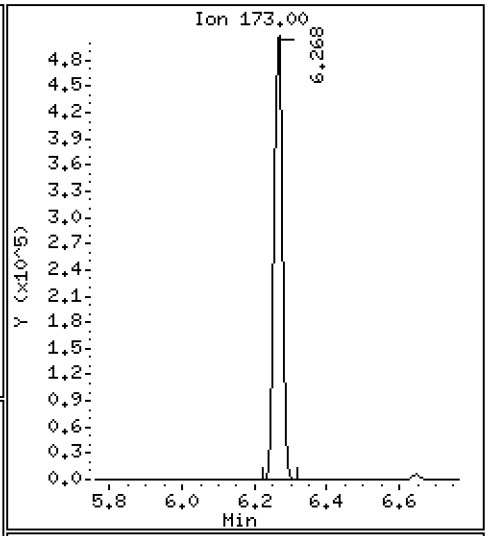
90 Bromoform Concentration: 199.791 ug/L

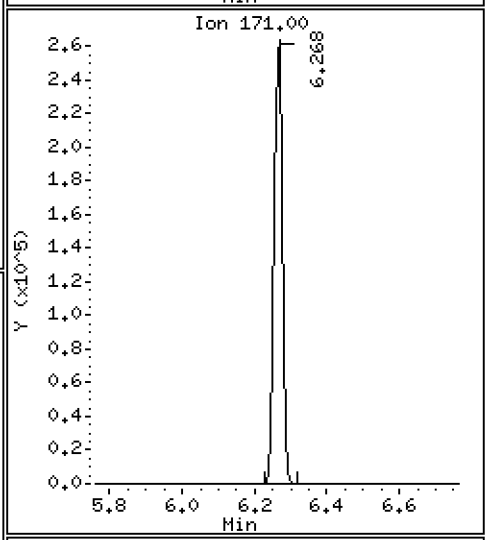


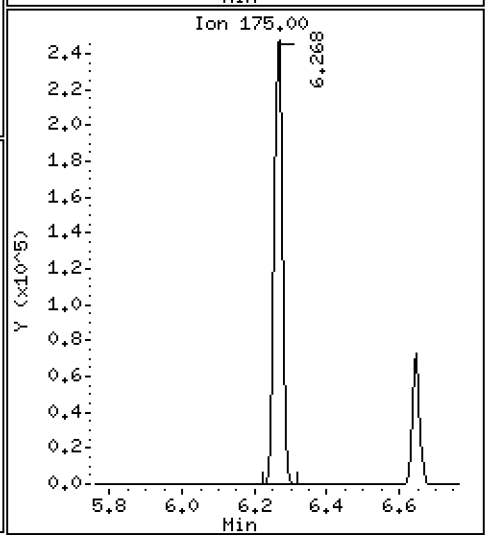












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 94

Date : 25-OCT-2016 01:36

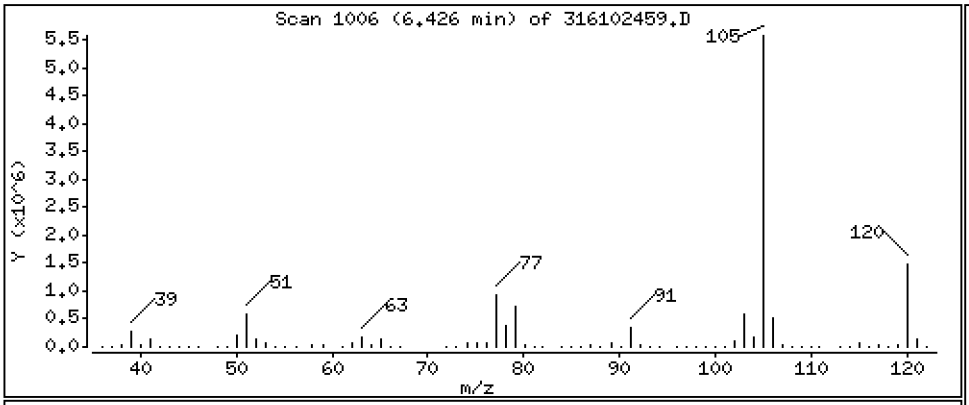
Client ID: Instrument: ms03.i

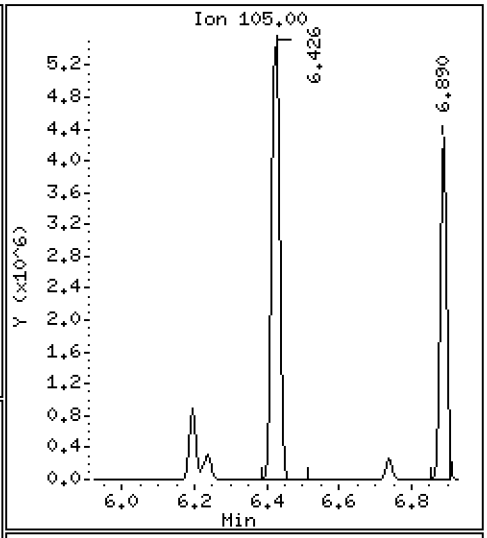
Sample Info: 1239;;1;1;6;;;

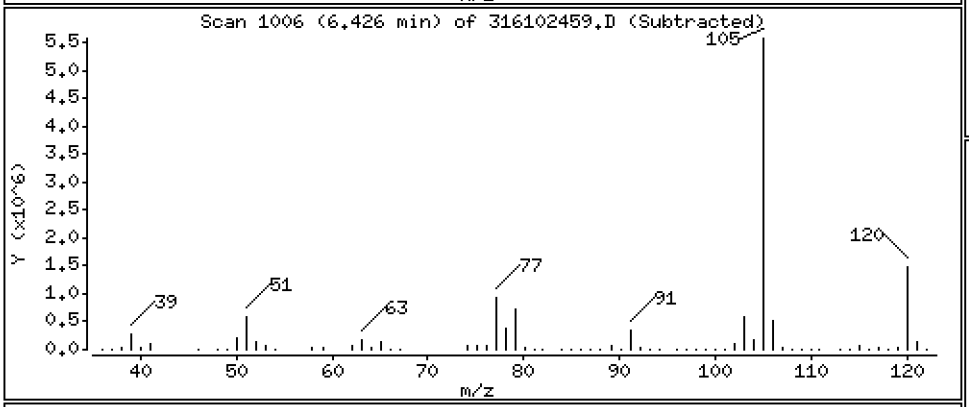
Purge Volume: 5.0 Operator: CJG

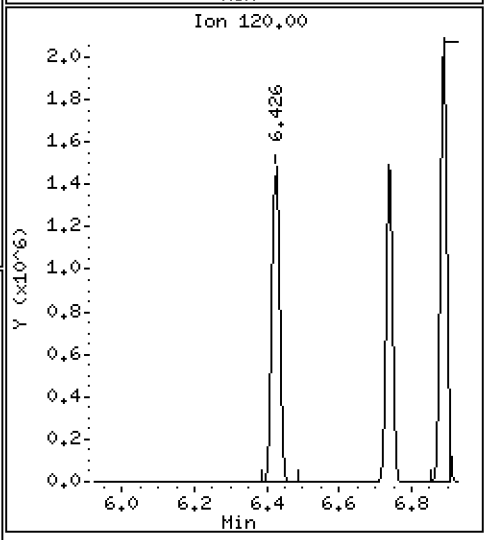
Column phase: DB-VRX Column diameter: 0.25

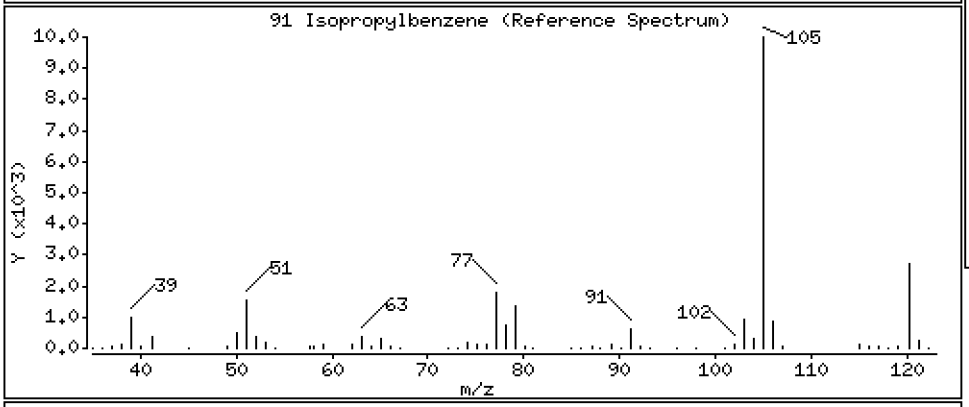
91 Isopropylbenzene Concentration: 199.964 ug/L

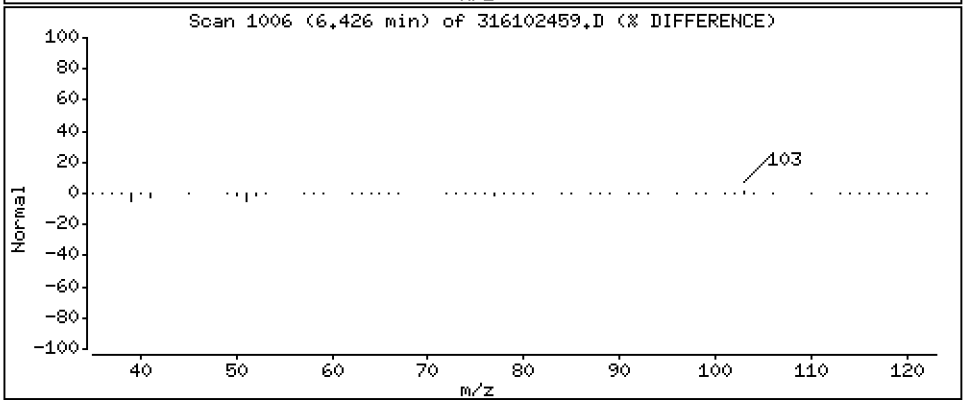












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 95

Date : 25-OCT-2016 01:36

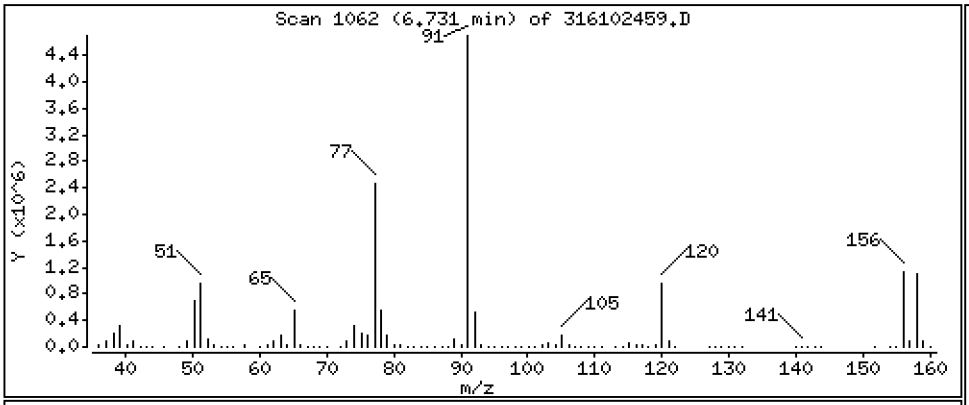
Client ID: Instrument: ms03.i

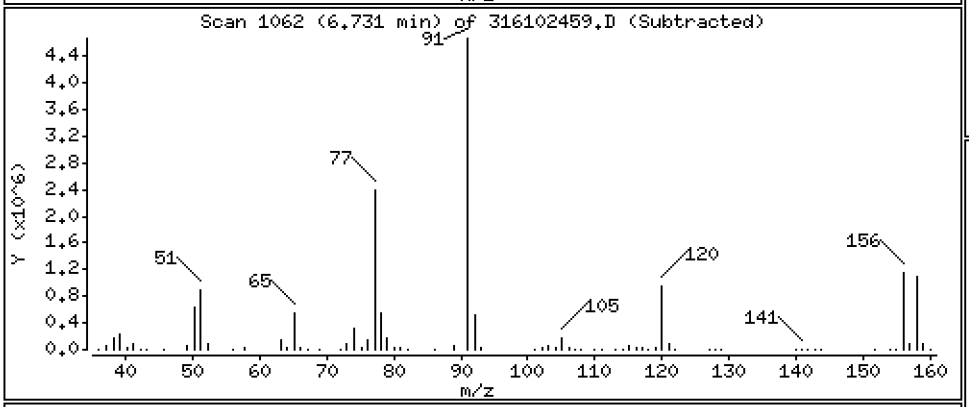
Sample Info: 1239;;1;1;6;;;

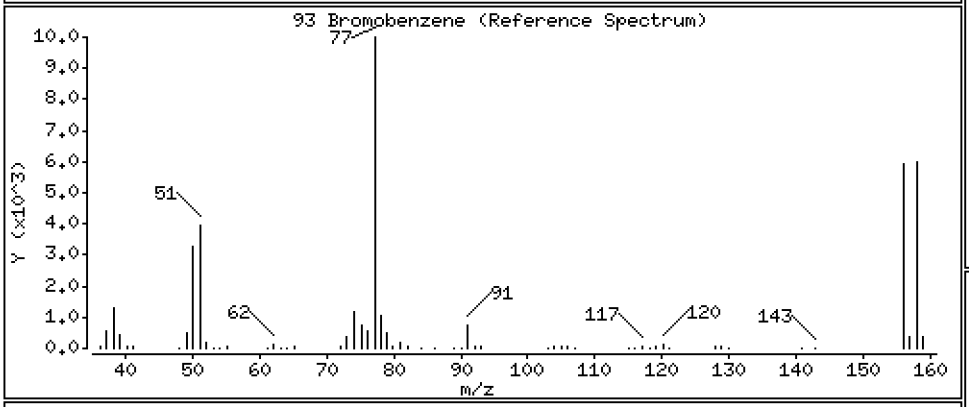
Purge Volume: 5.0 Operator: CJG

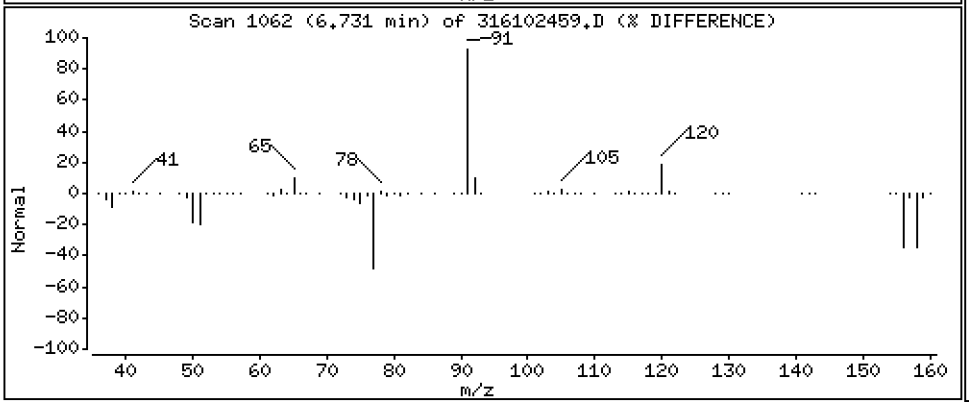
Column phase: DB-VRX Column diameter: 0.25

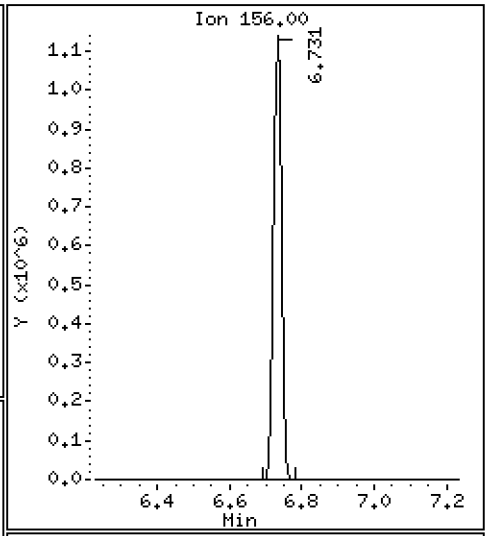
93 Bromobenzene Concentration: 199.983 ug/L

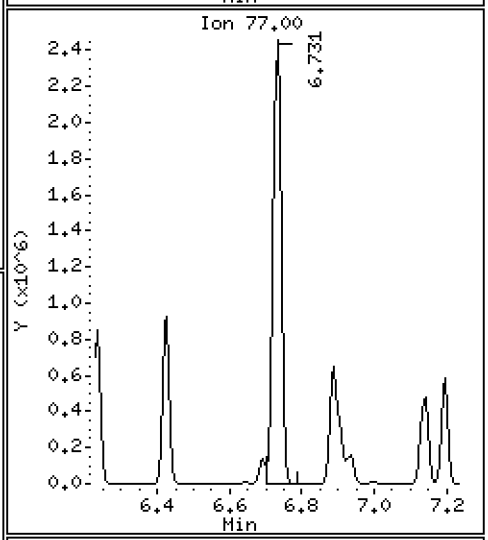


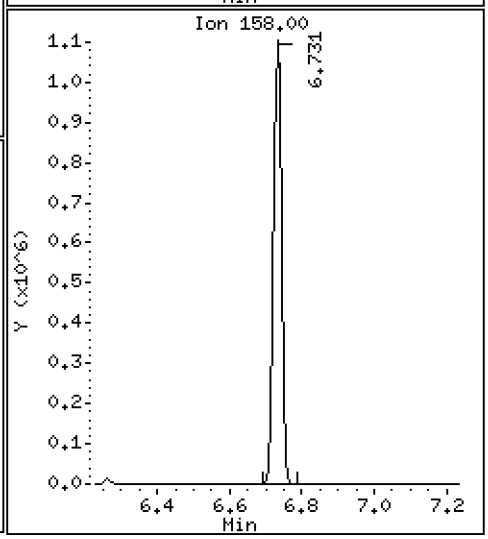












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 96

Date : 25-OCT-2016 01:36

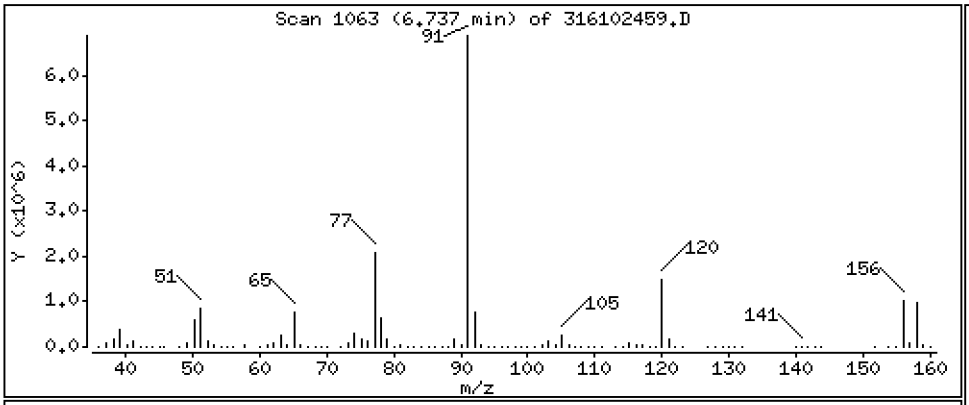
Client ID: Instrument: ms03.i

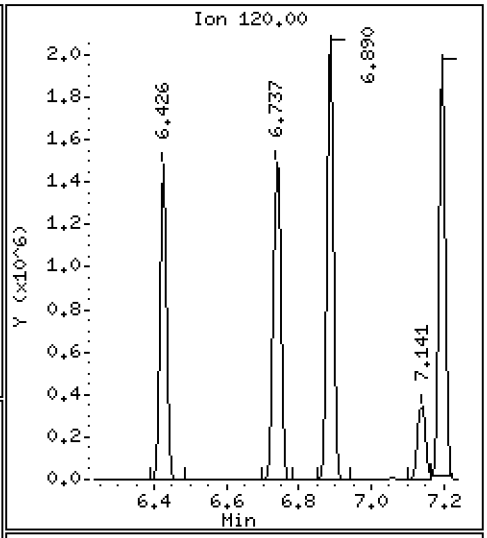
Sample Info: 1239;;1;1;6;;;

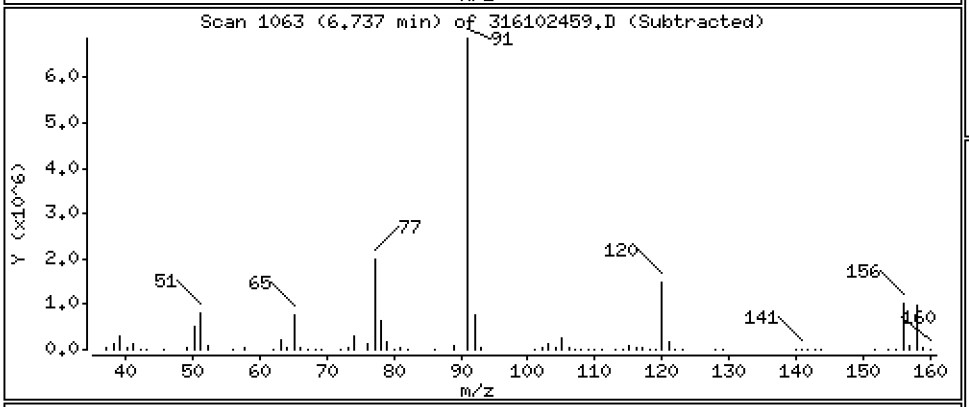
Purge Volume: 5.0 Operator: CJG

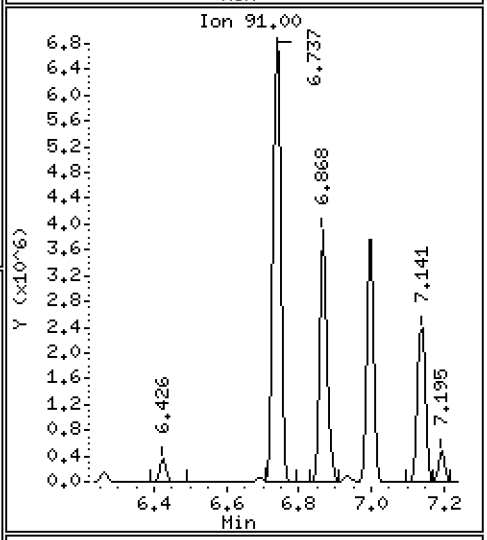
Column phase: DB-VRX Column diameter: 0.25

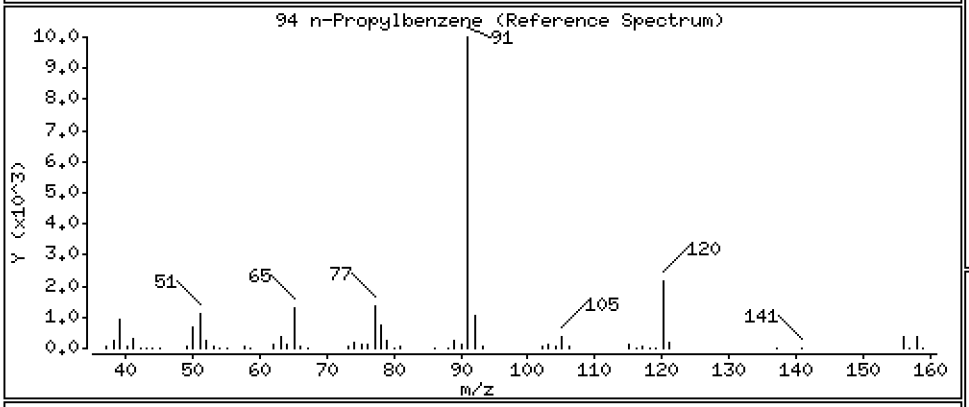
94 n-Propylbenzene Concentration: 199.982 ug/L

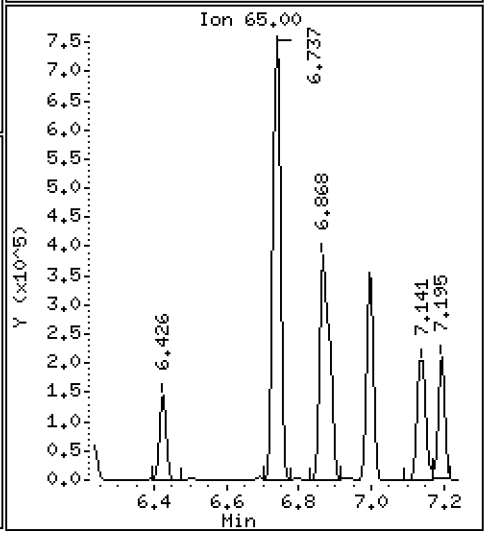


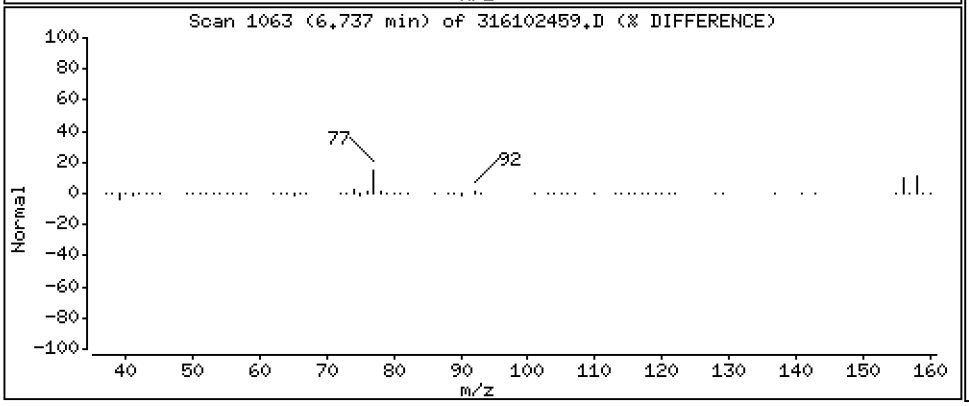












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 97

Date : 25-OCT-2016 01:36

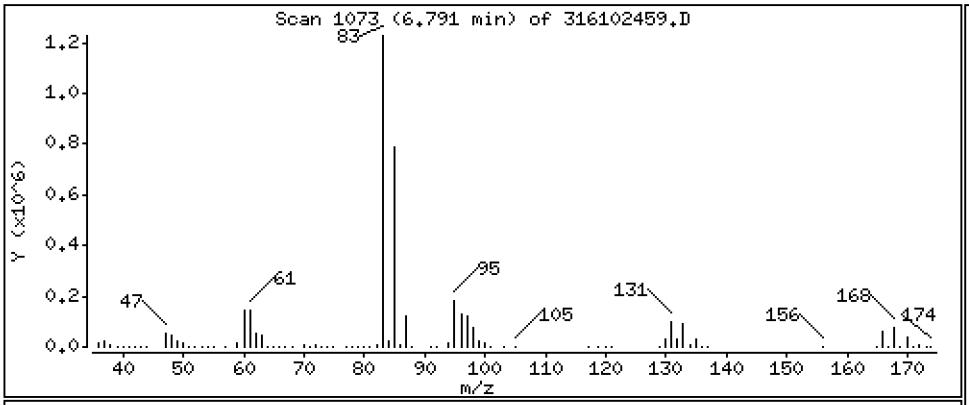
Client ID: Instrument: ms03.i

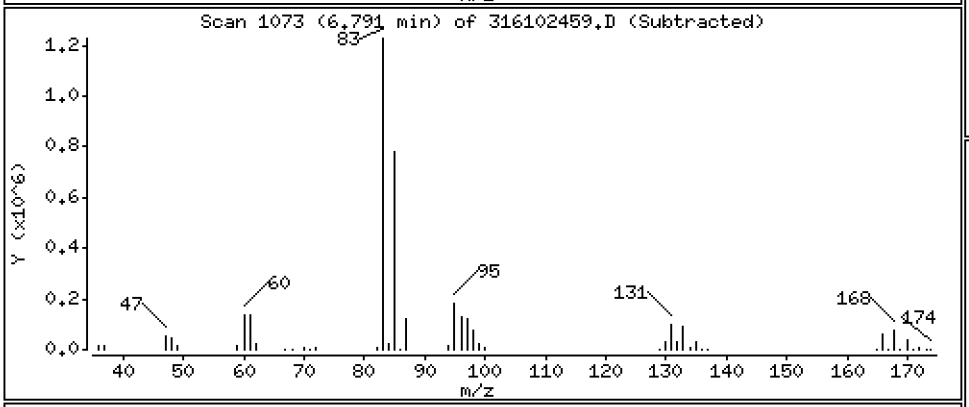
Sample Info: 1239;;1;1;6;;;

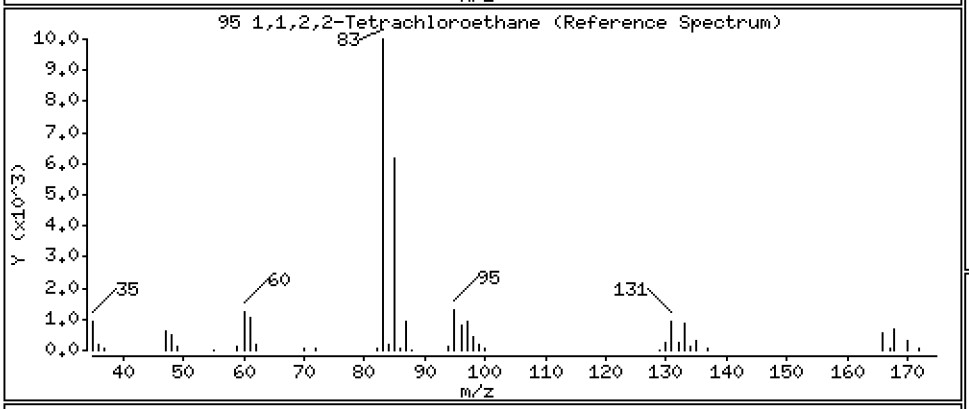
Purge Volume: 5.0 Operator: CJG

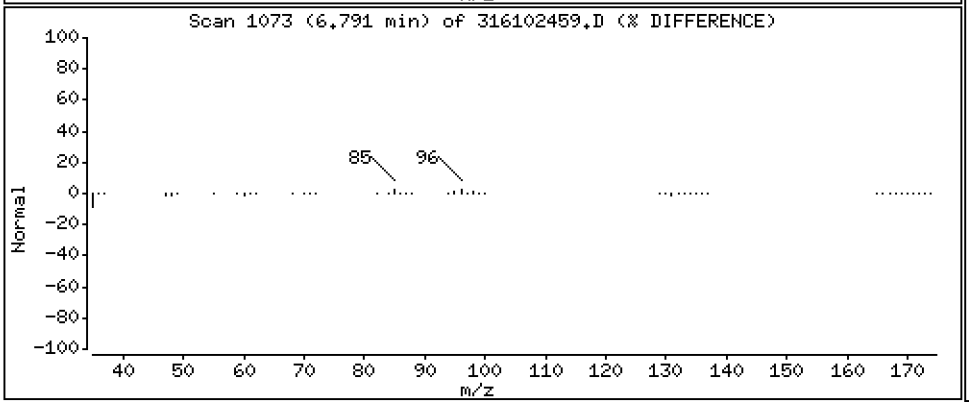
Column phase: DB-VRX Column diameter: 0.25

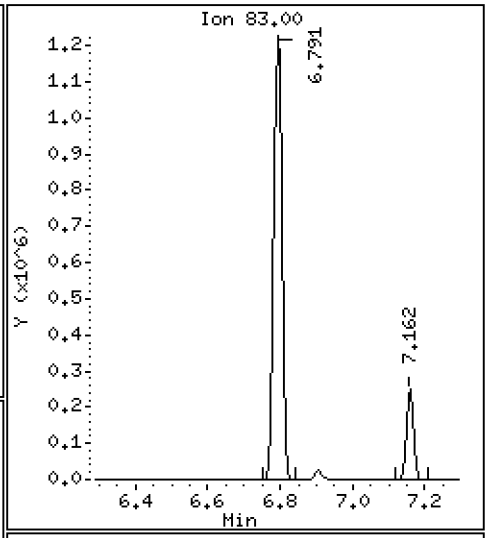
95 1,1,2,2-Tetrachloroethane Concentration: 200.124 ug/L

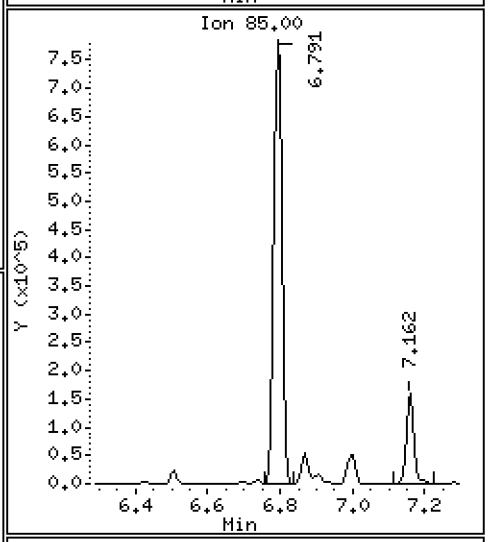


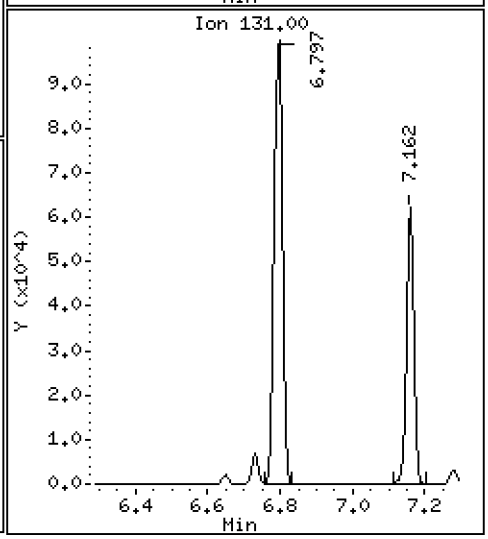












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 98

Date : 25-OCT-2016 01:36

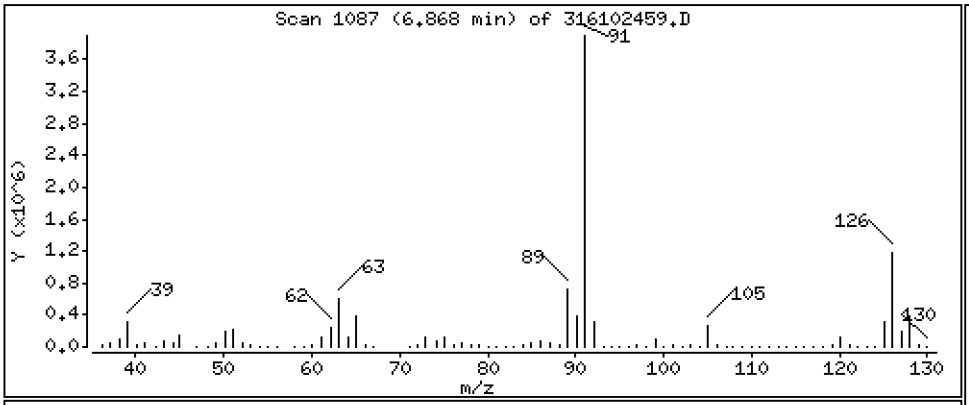
Client ID: Instrument: ms03.i

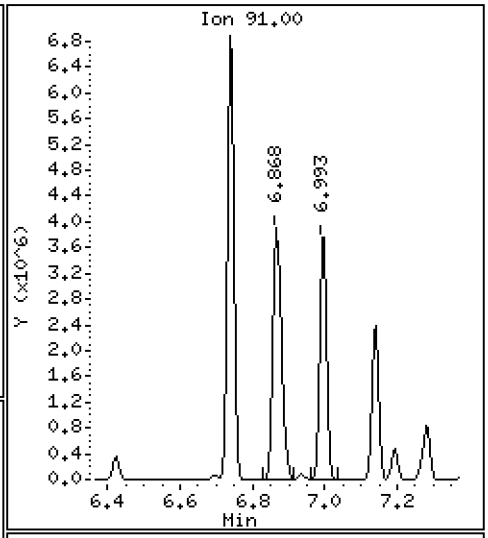
Sample Info: 1239;;1;1;6;;;

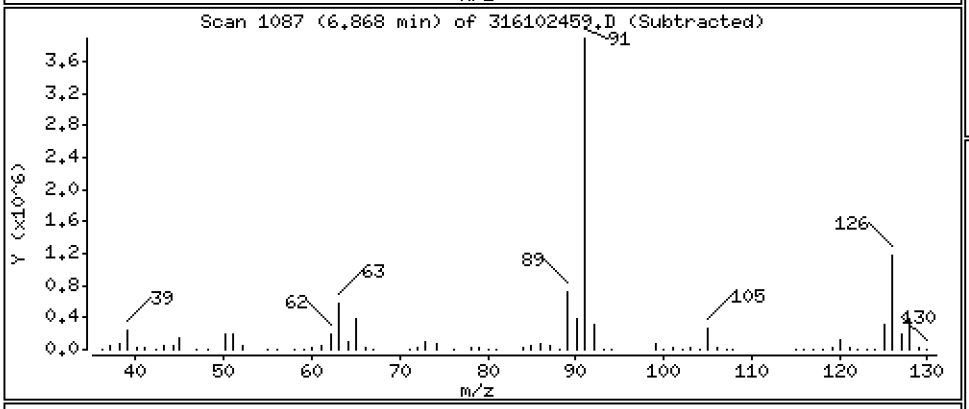
Purge Volume: 5.0 Operator: CJG

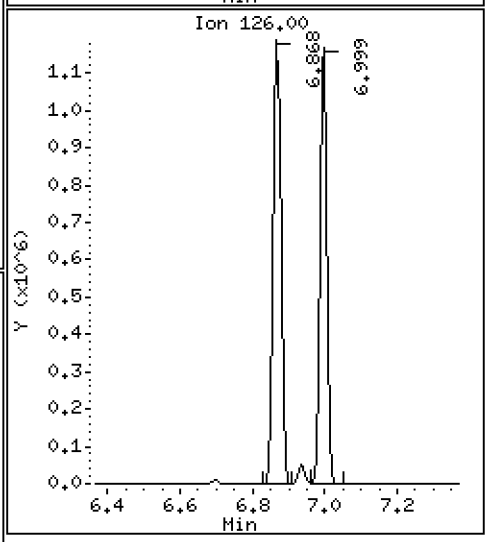
Column phase: DB-VRX Column diameter: 0.25

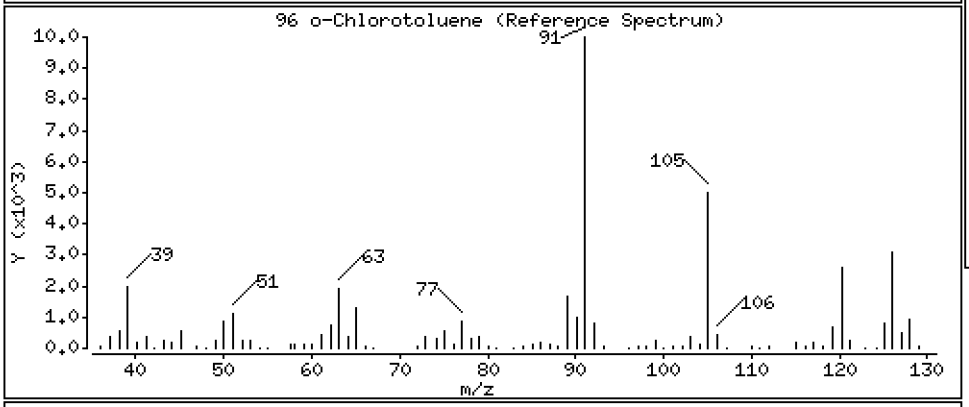
96 o-Chlorotoluene Concentration: 199.958 ug/L

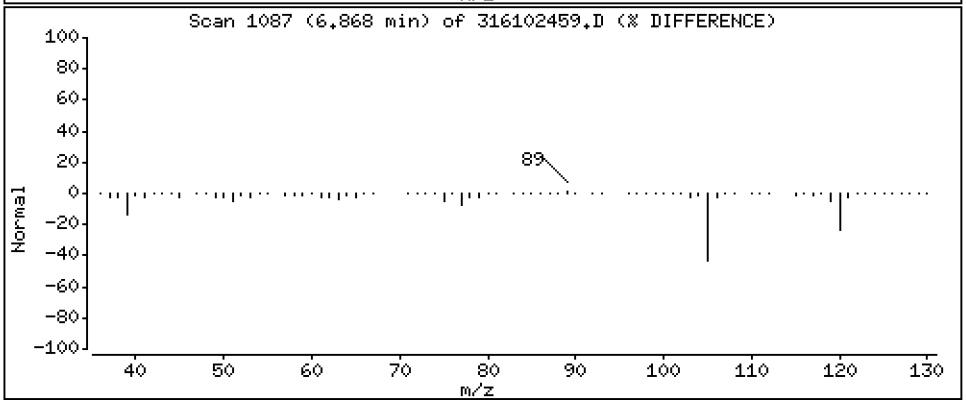












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 99

Date : 25-OCT-2016 01:36

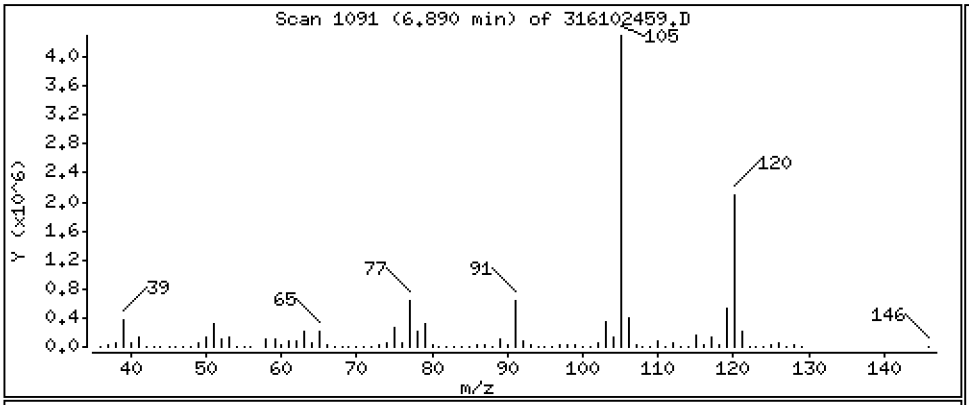
Client ID: Instrument: ms03.i

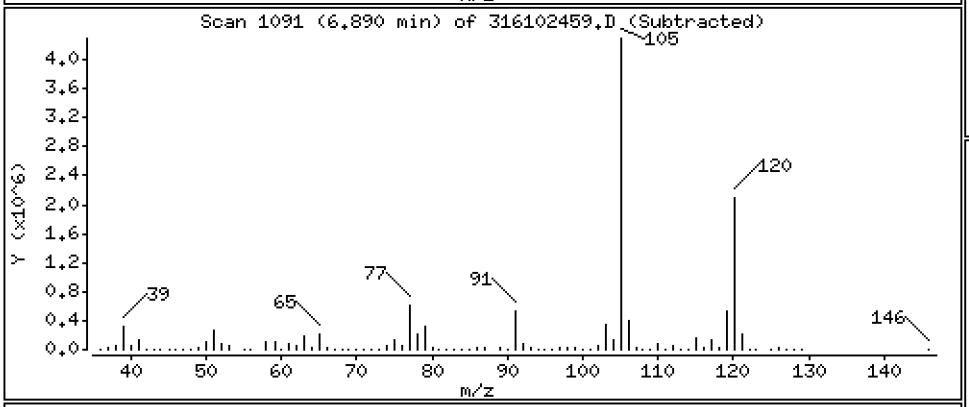
Sample Info: 1239;;1;1;6;;;

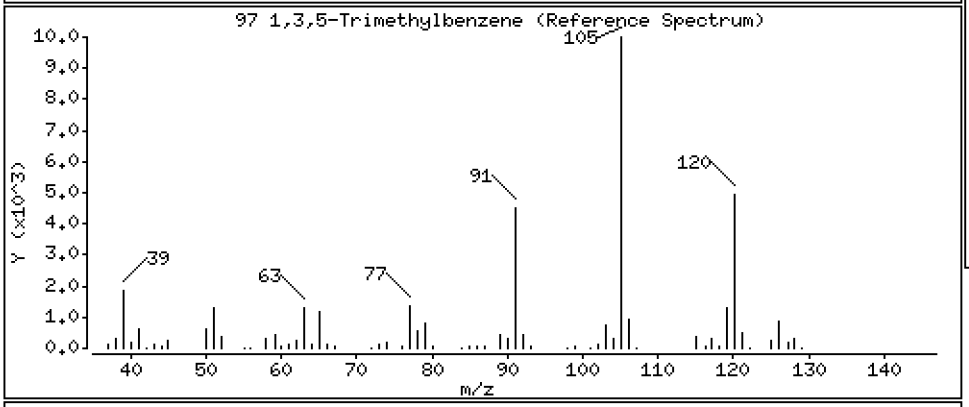
Purge Volume: 5.0 Operator: CJG

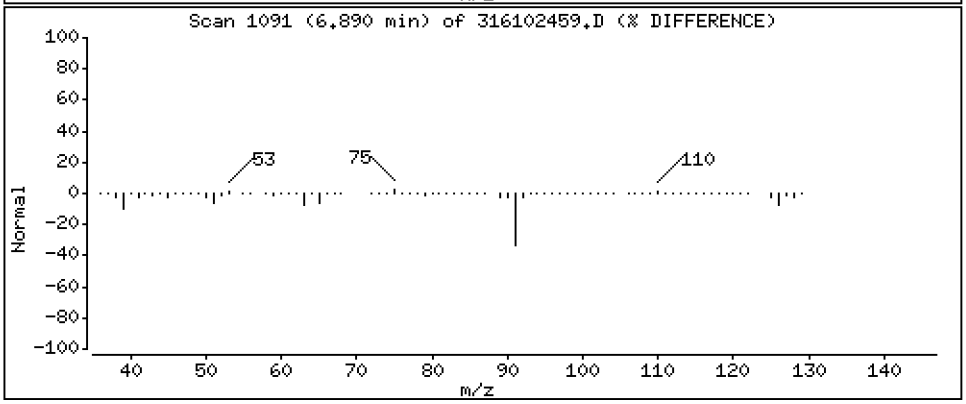
Column phase: DB-VRX Column diameter: 0.25

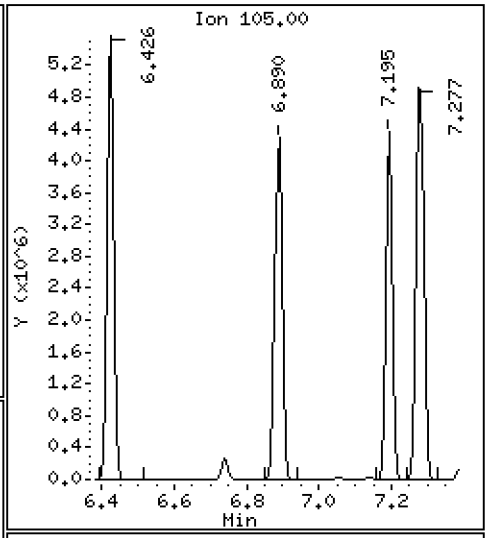
97 1,3,5-Trimethylbenzene Concentration: 199.938 ug/L

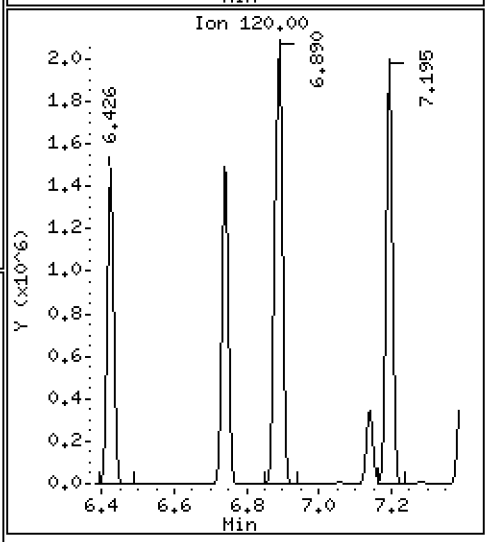












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 100

Date : 25-OCT-2016 01:36

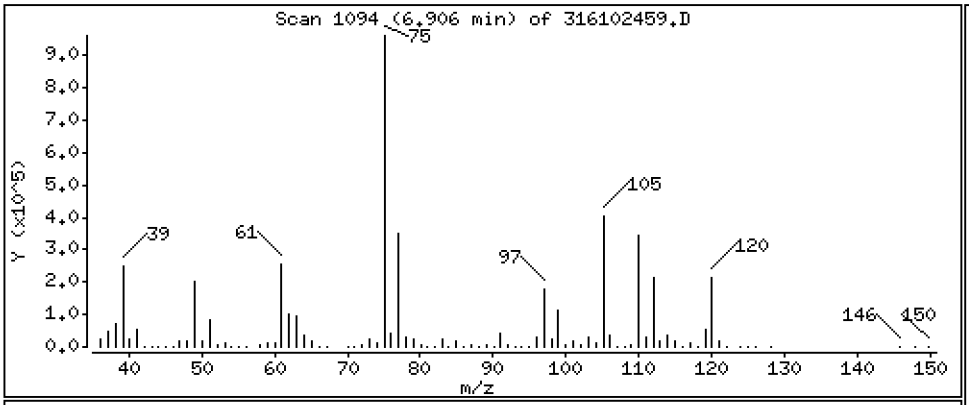
Client ID: Instrument: ms03.i

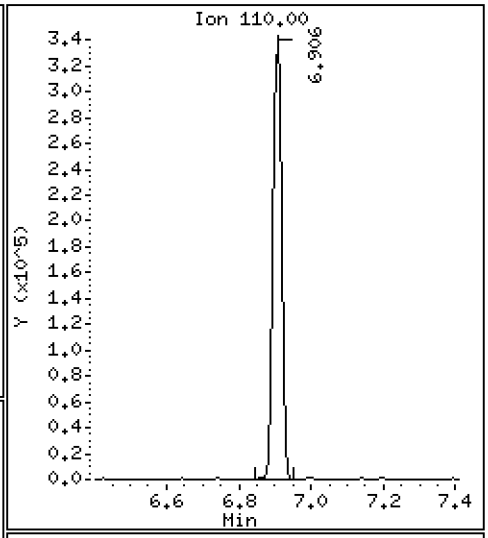
Sample Info: 1239;;1;1;6;;;

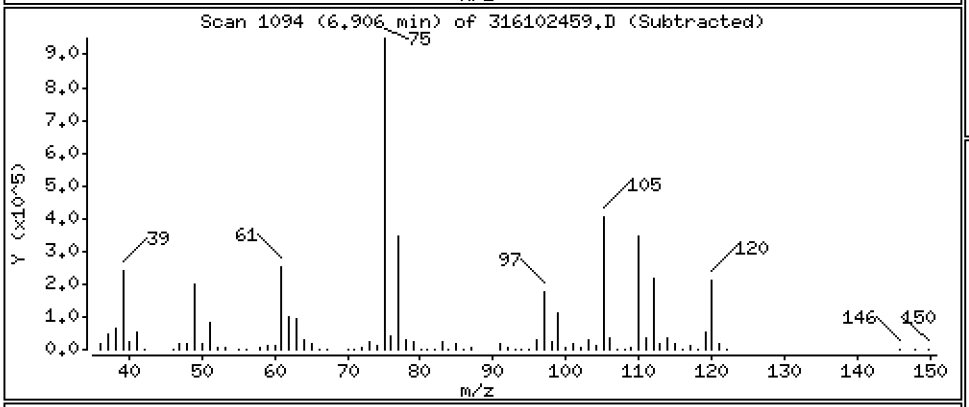
Purge Volume: 5.0 Operator: CJG

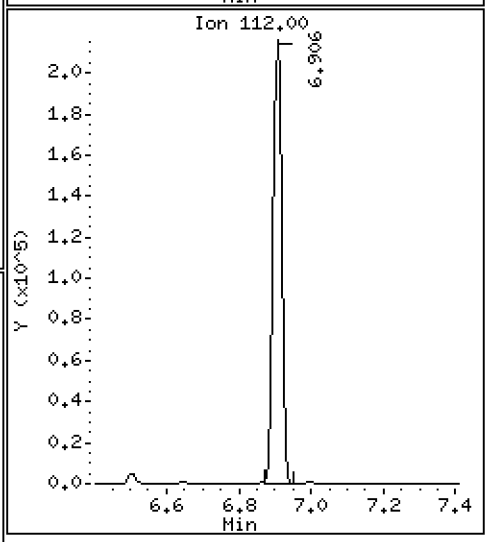
Column phase: DB-VRX Column diameter: 0.25

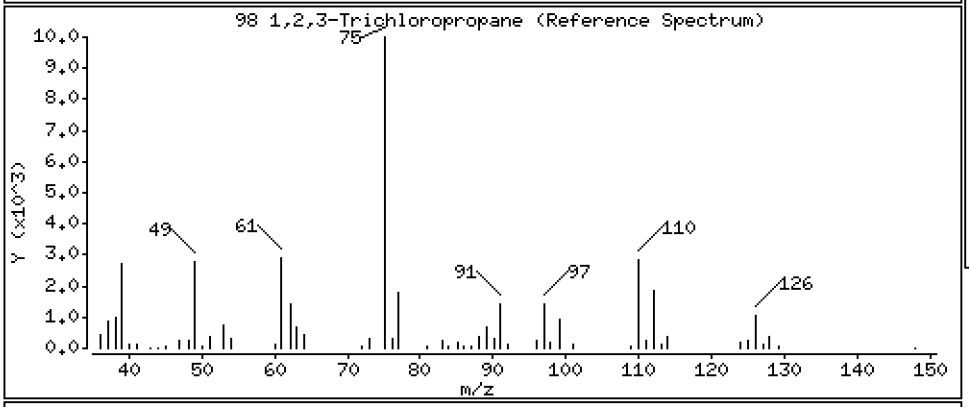
98 1,2,3-Trichloropropane Concentration: 200.191 ug/L

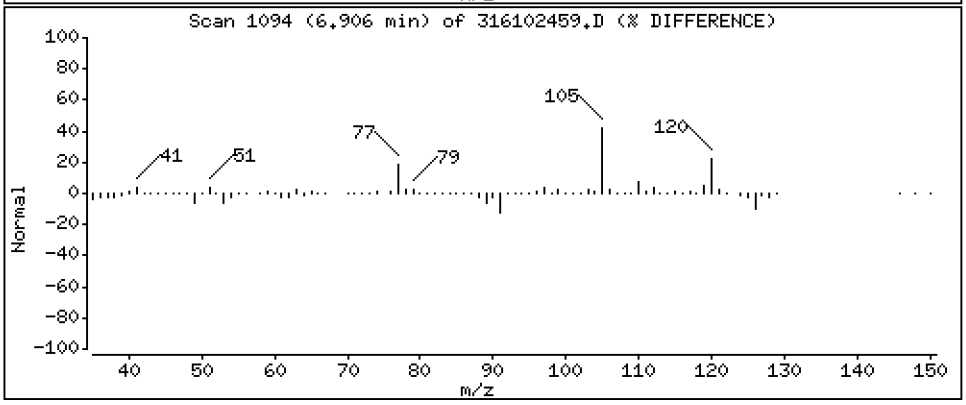












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 101

Date : 25-OCT-2016 01:36

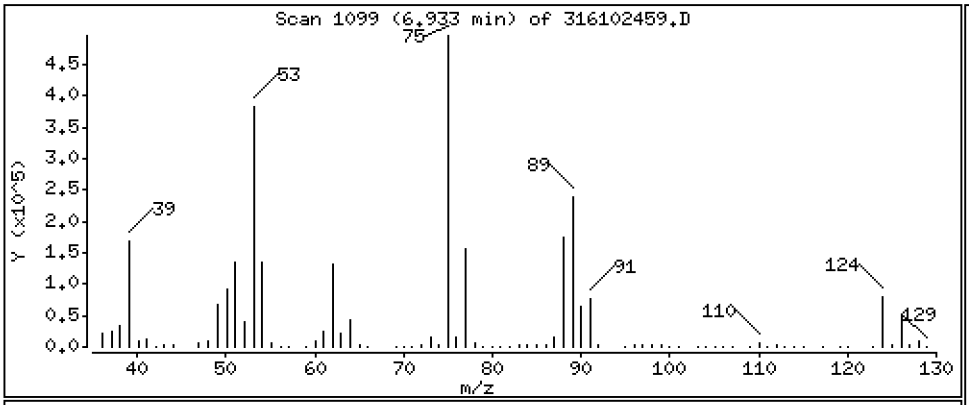
Client ID: Instrument: ms03.i

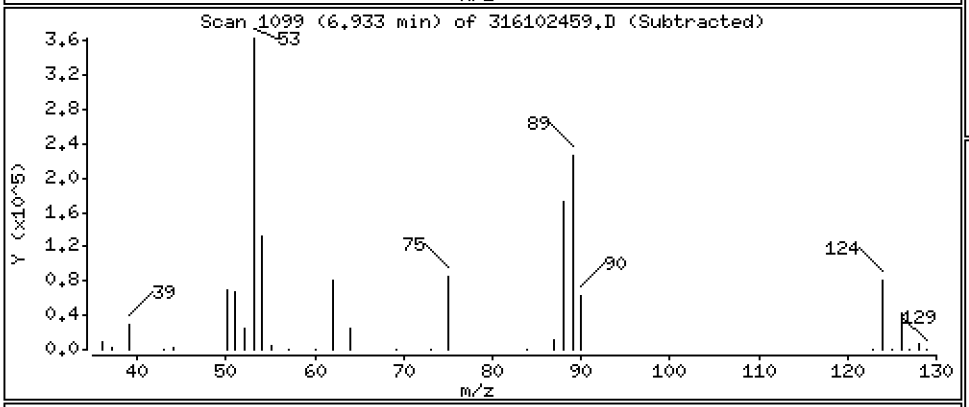
Sample Info: 1239;;1;1;6;;;

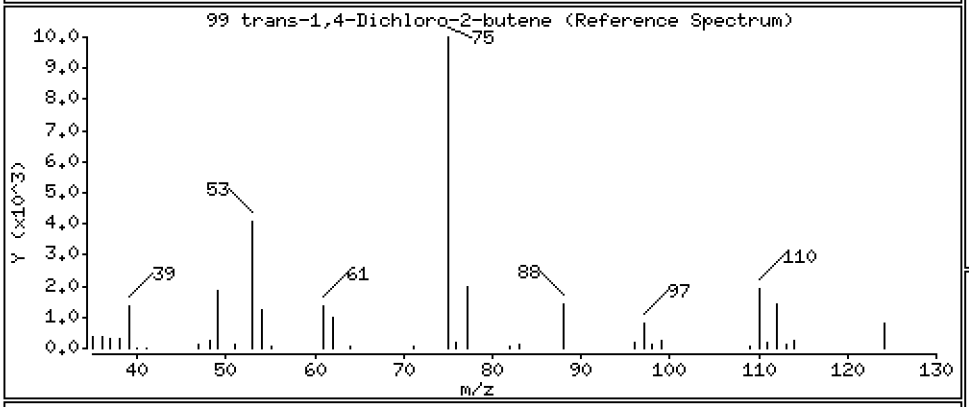
Purge Volume: 5.0 Operator: CJG

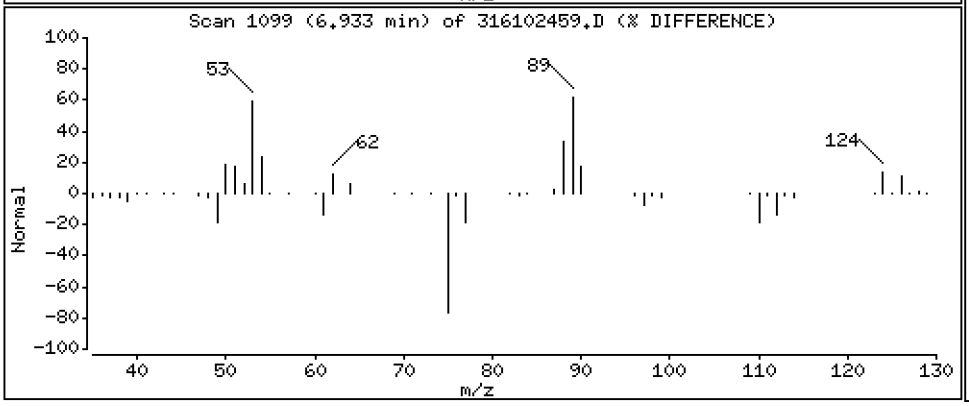
Column phase: DB-VRX Column diameter: 0.25

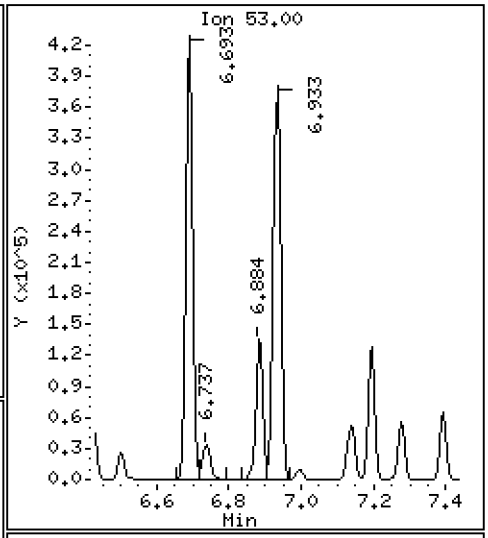
99 trans-1,4-Dichloro-2-butene Concentration: 199.842 ug/L

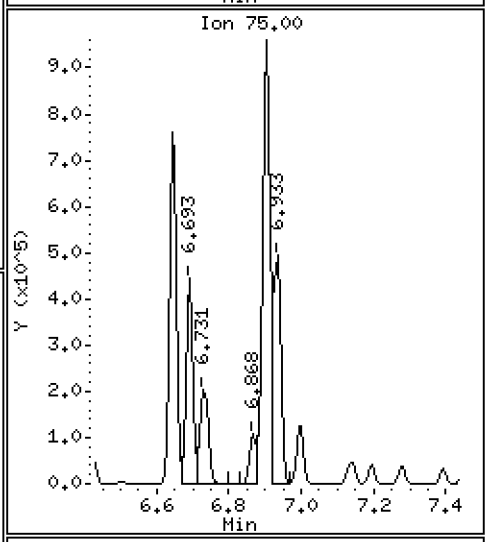


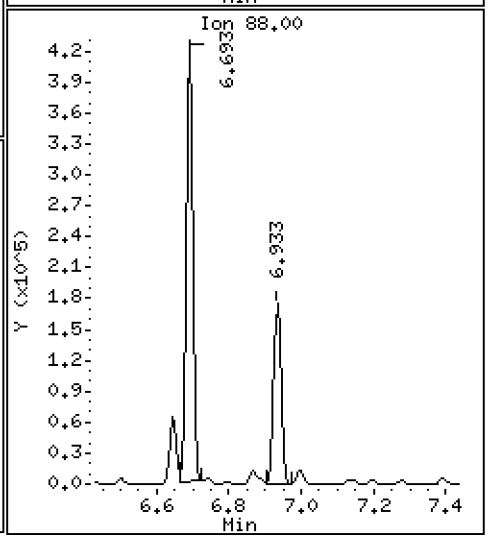












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 102

Date : 25-OCT-2016 01:36

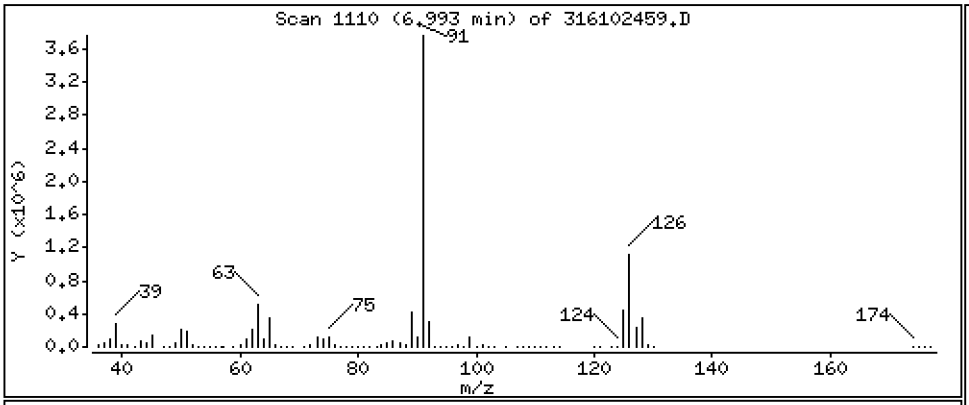
Client ID: Instrument: ms03.i

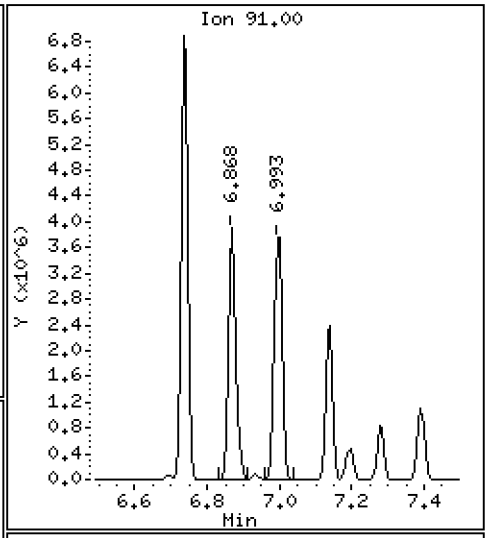
Sample Info: 1239;;1;1;6;;;

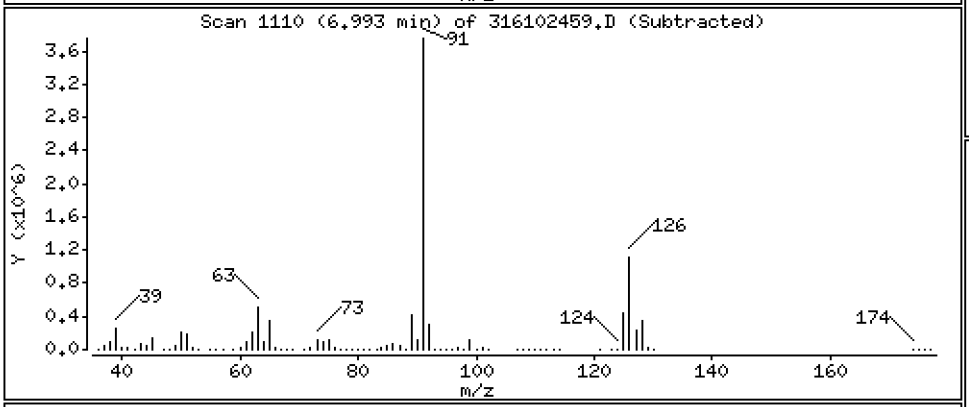
Purge Volume: 5.0 Operator: CJG

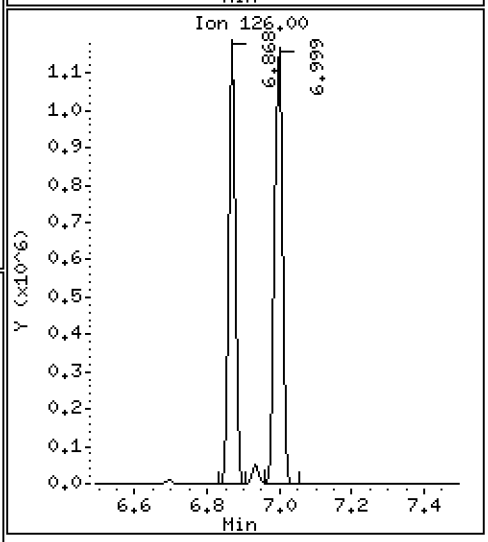
Column phase: DB-VRX Column diameter: 0.25

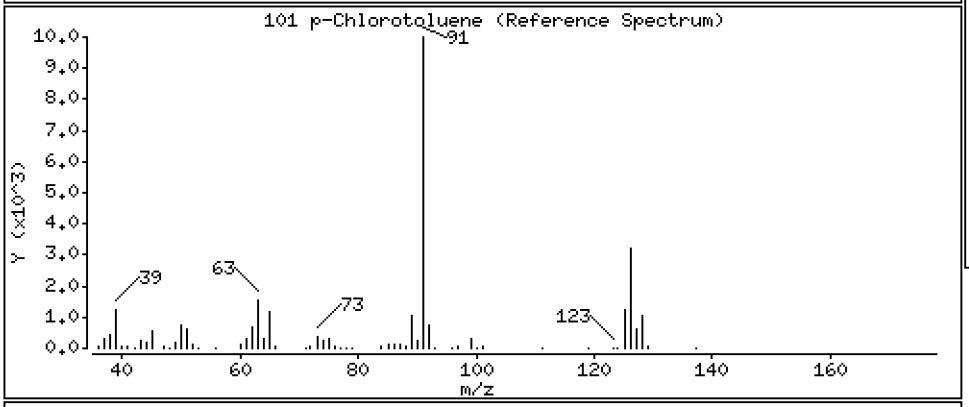
101 p-Chlorotoluene Concentration: 199.900 ug/L

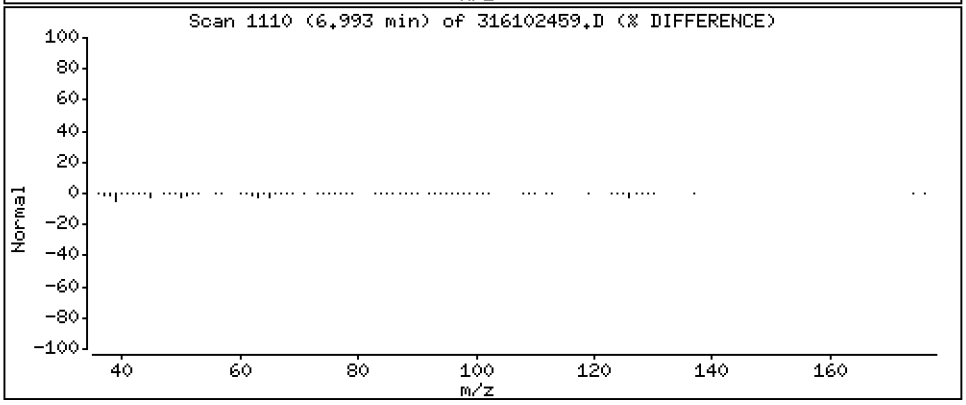












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 103

Date : 25-OCT-2016 01:36

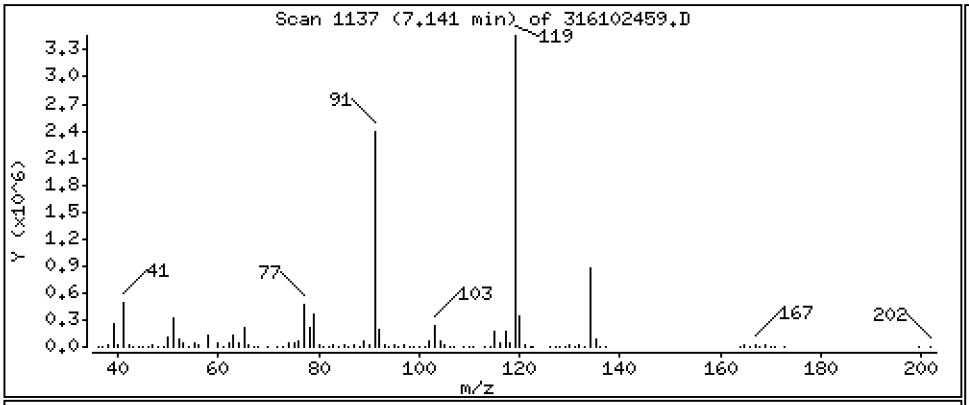
Client ID: Instrument: ms03.i

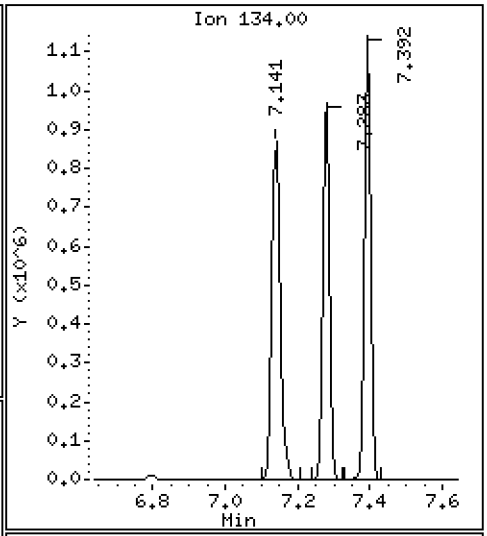
Sample Info: 1239;;1;1;6;;;

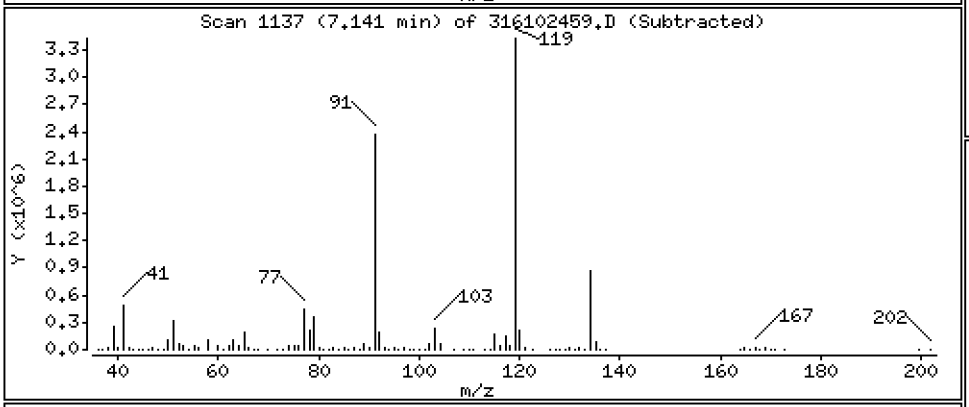
Purge Volume: 5.0 Operator: CJG

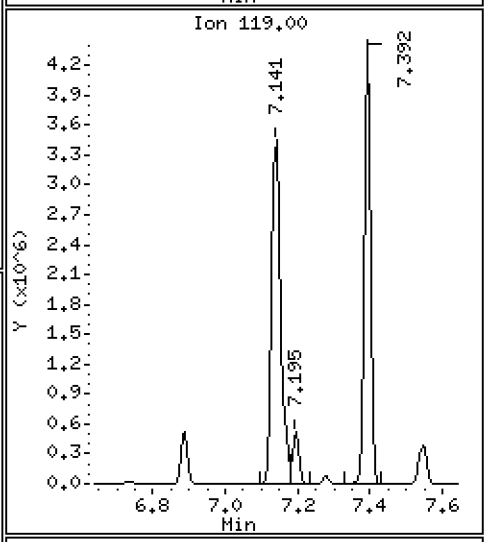
Column phase: DB-VRX Column diameter: 0.25

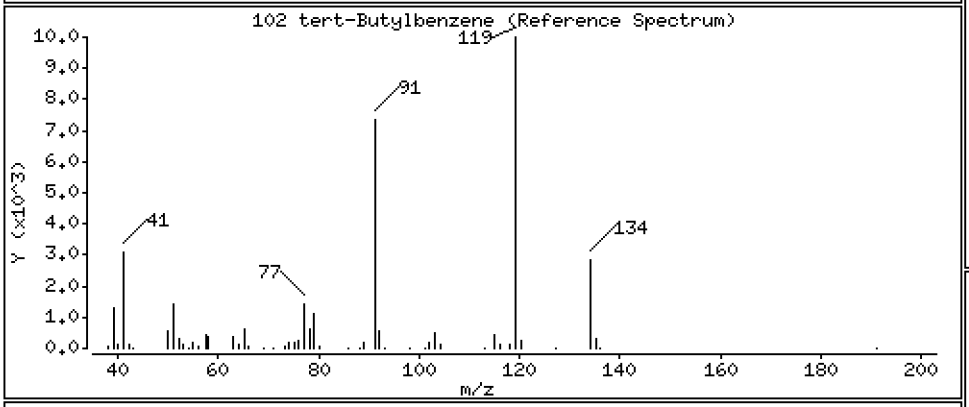
102 tert-Butylbenzene Concentration: 199.938 ug/L

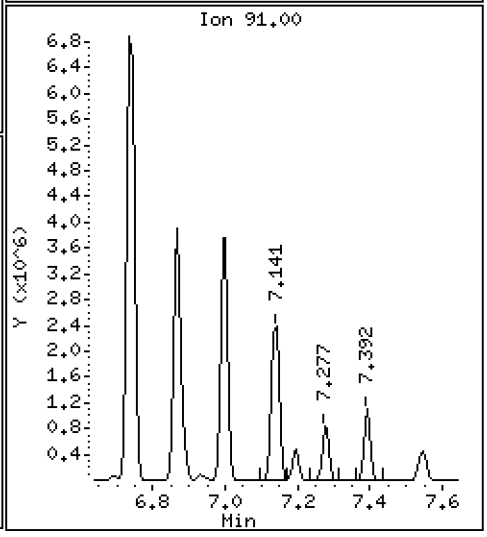


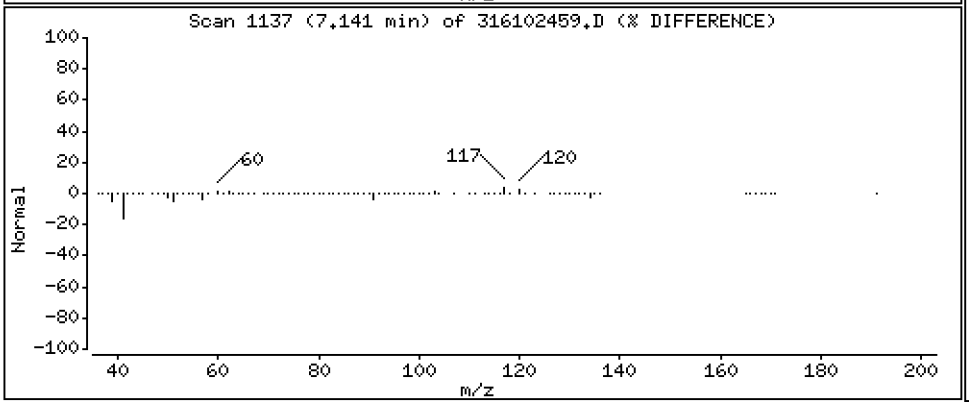












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 104

Date : 25-OCT-2016 01:36

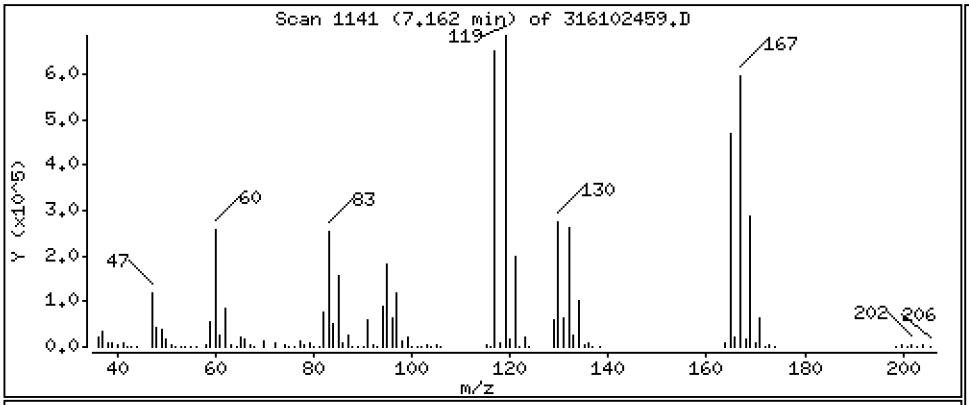
Client ID: Instrument: ms03.i

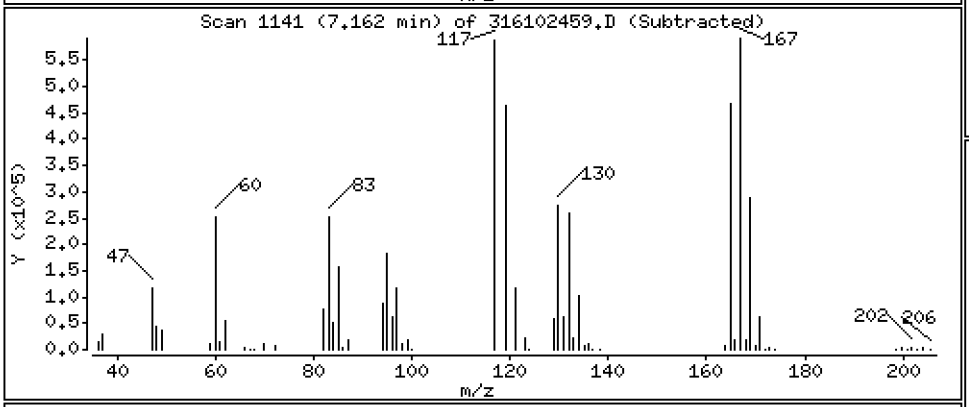
Sample Info: 1239;;1;1;6;;;

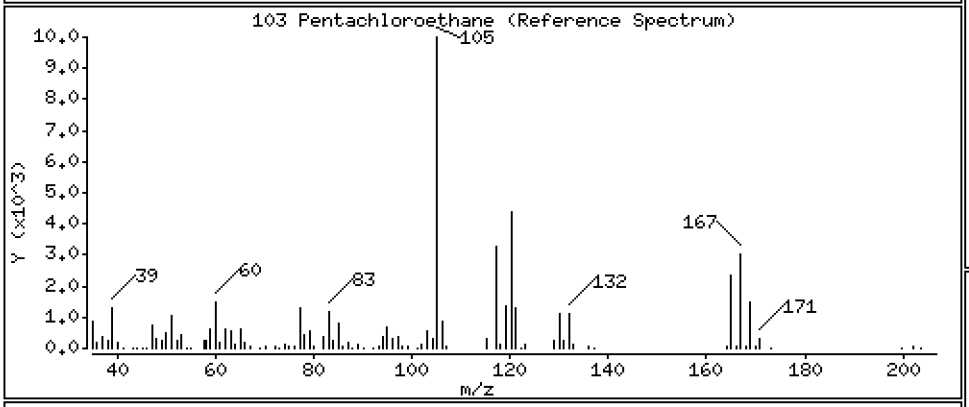
Purge Volume: 5.0 Operator: CJG

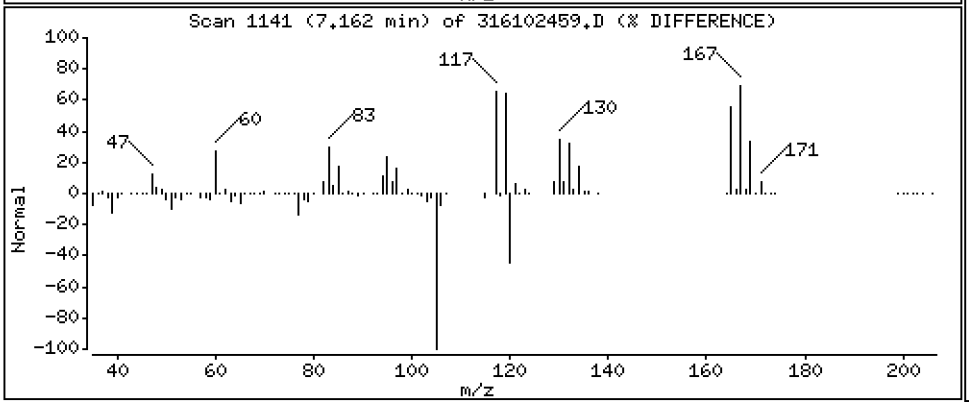
Column phase: DB-VRX Column diameter: 0.25

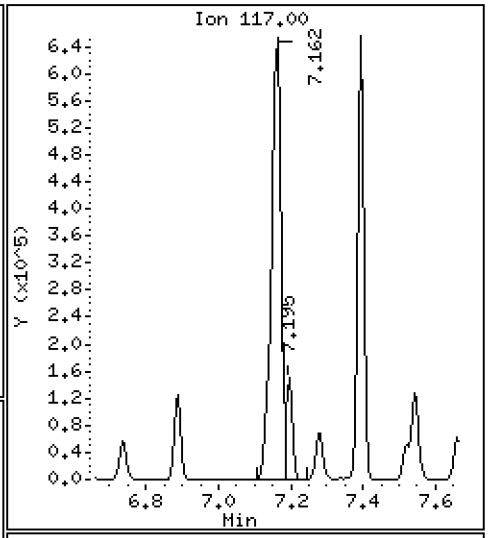
103 Pentachloroethane Concentration: 199.812 ug/L

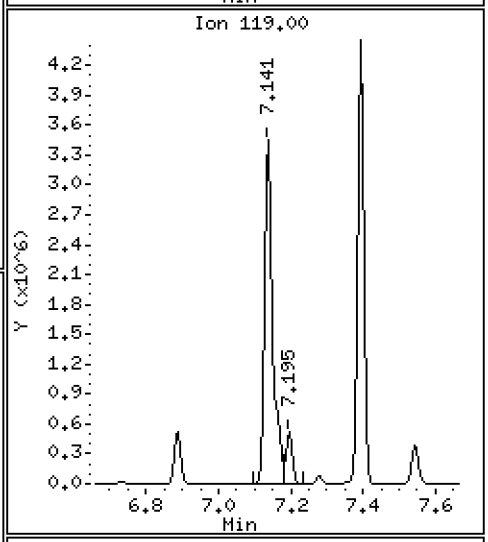


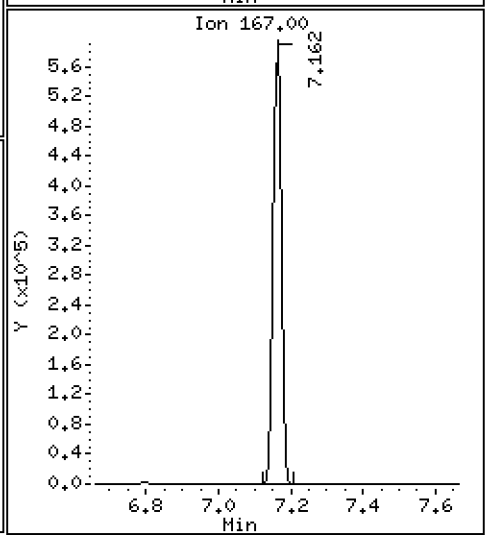












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 105

Date : 25-OCT-2016 01:36

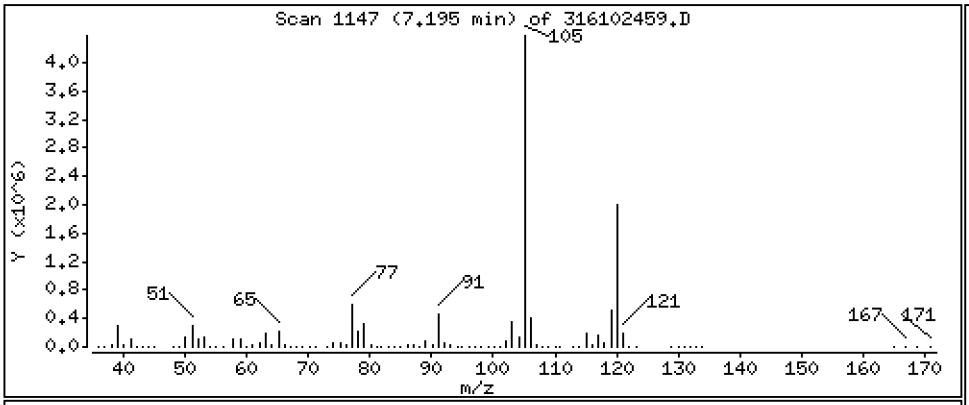
Client ID: Instrument: ms03.i

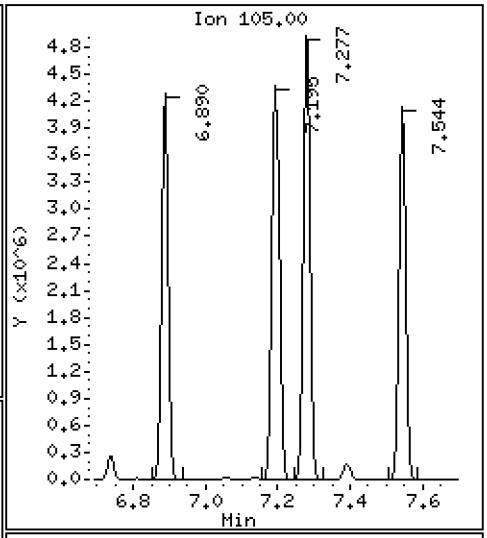
Sample Info: 1239;;1;1;6;;;

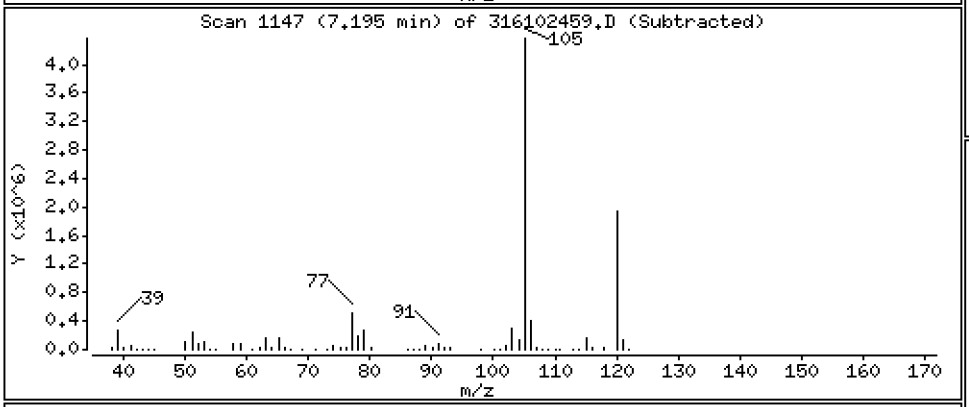
Purge Volume: 5.0 Operator: CJG

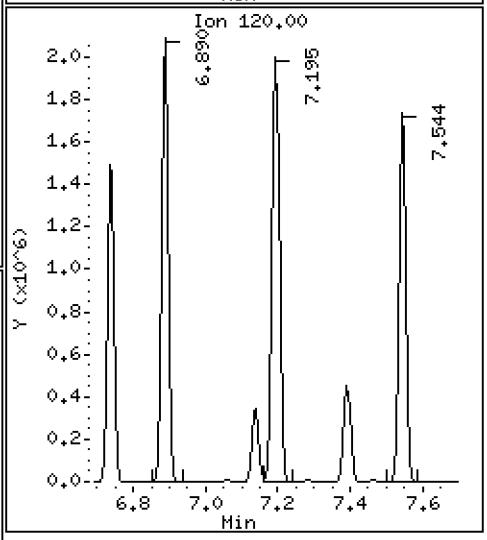
Column phase: DB-VRX Column diameter: 0.25

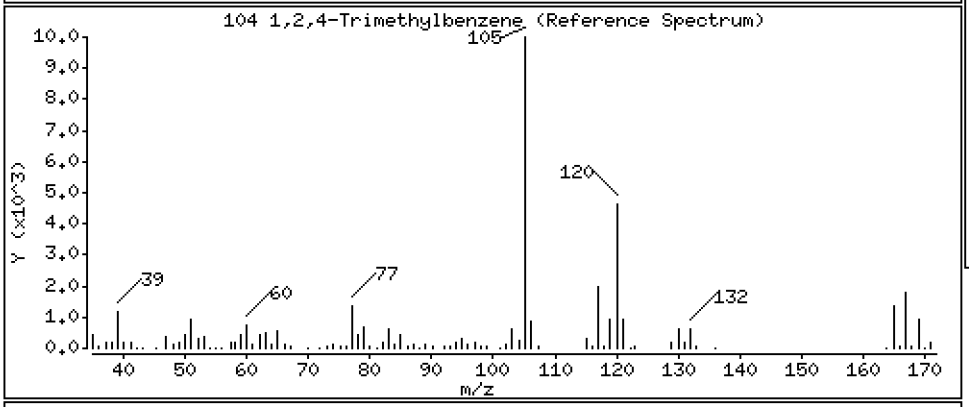
104 1,2,4-Trimethylbenzene Concentration: 199.902 ug/L

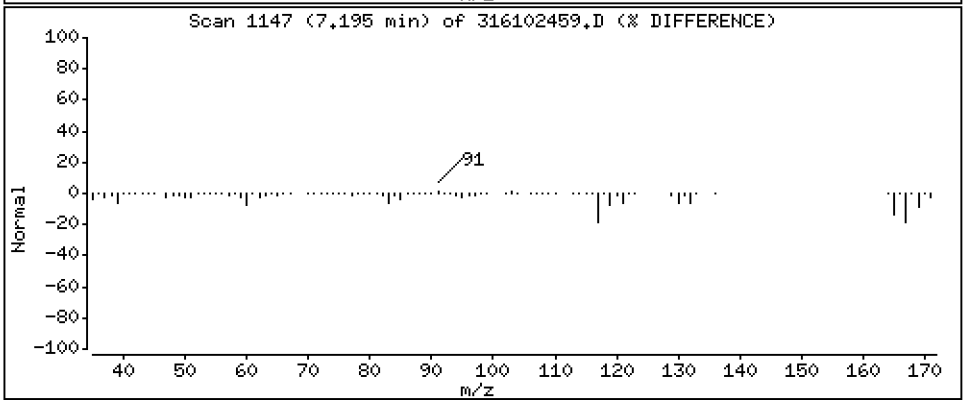












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 106

Date : 25-OCT-2016 01:36

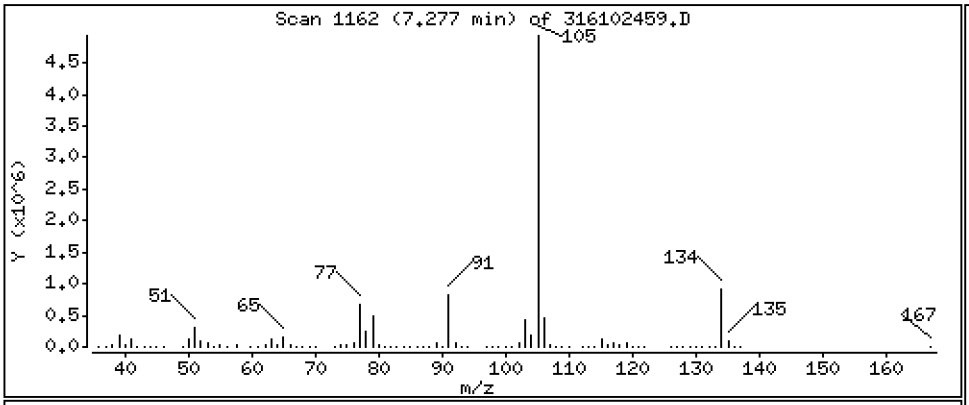
Client ID: Instrument: ms03.i

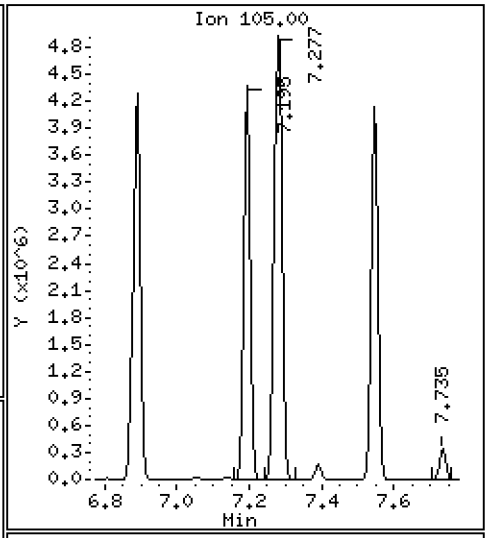
Sample Info: 1239;;1;1;6;;;

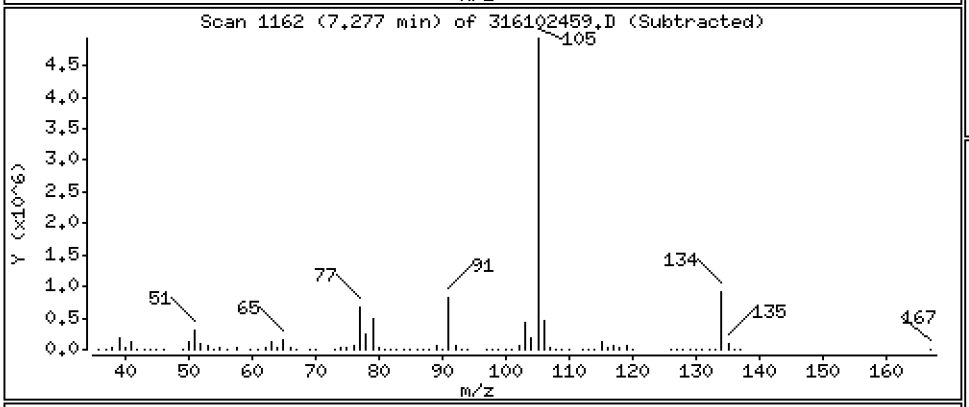
Purge Volume: 5.0 Operator: CJG

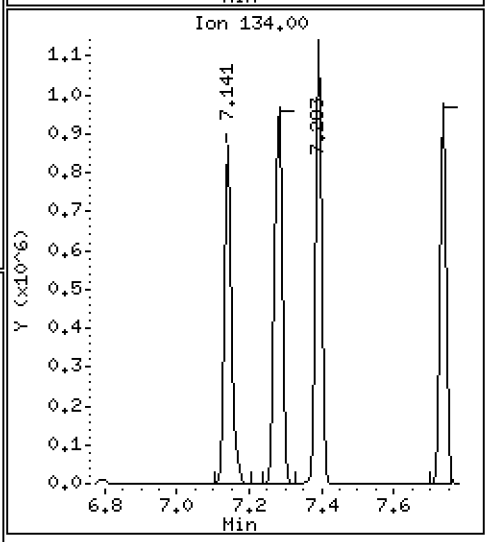
Column phase: DB-VRX Column diameter: 0.25

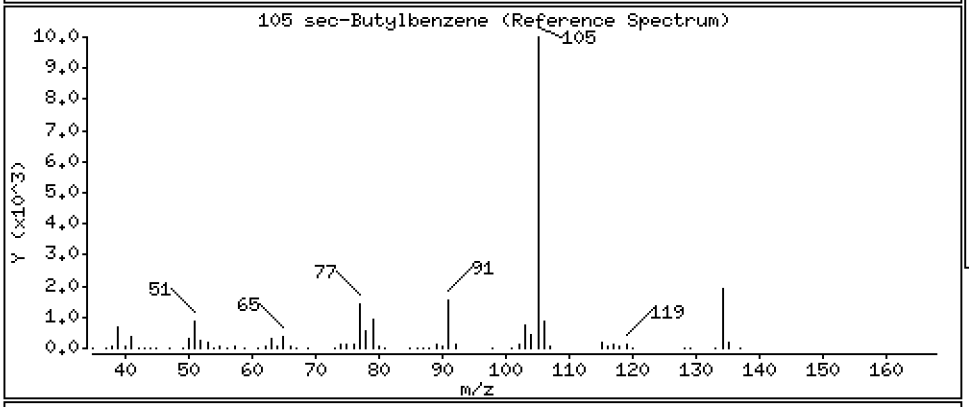
105 sec-Butylbenzene Concentration: 199.873 ug/L

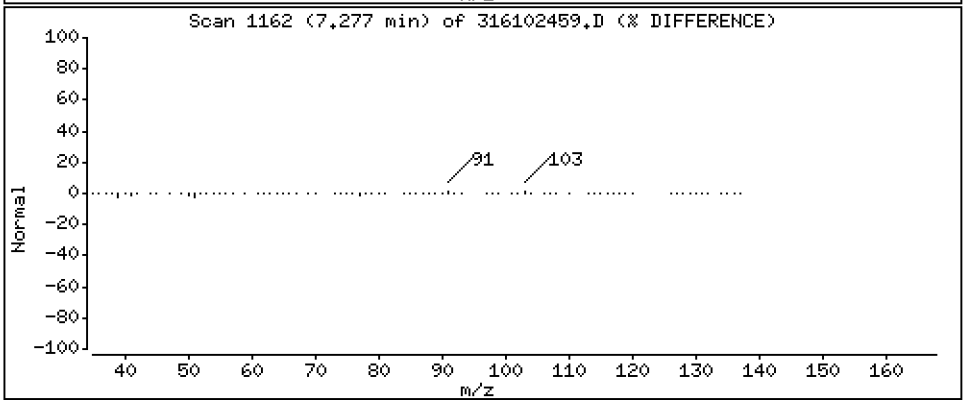












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 107

Date : 25-OCT-2016 01:36

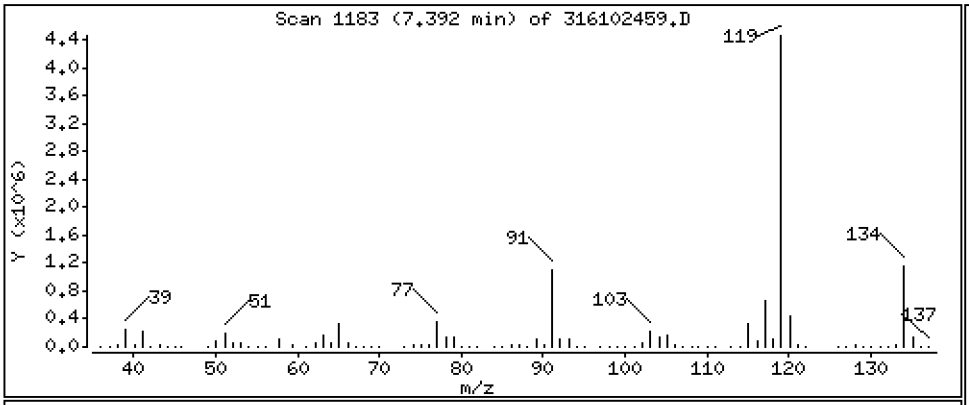
Client ID: Instrument: ms03.i

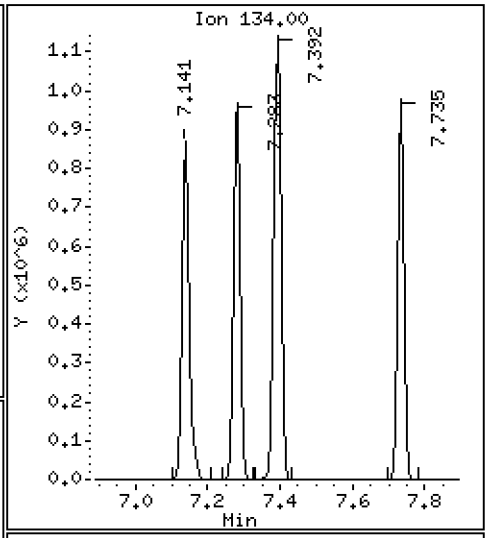
Sample Info: 1239;;1;1;6;;;

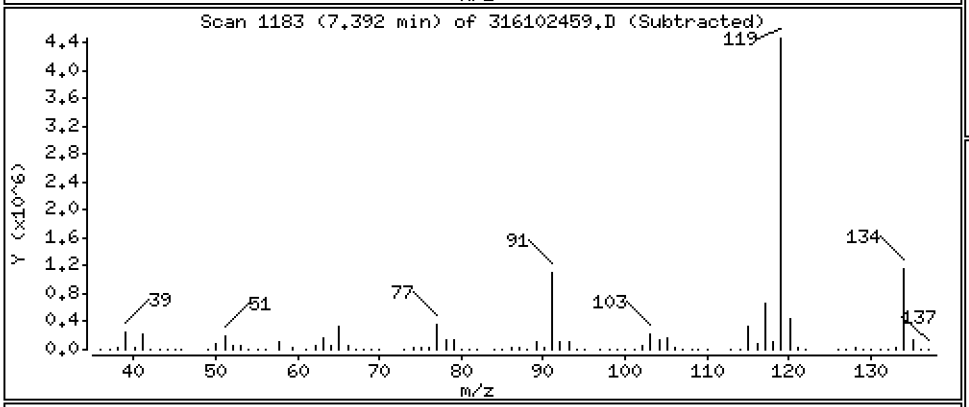
Purge Volume: 5.0 Operator: CJG

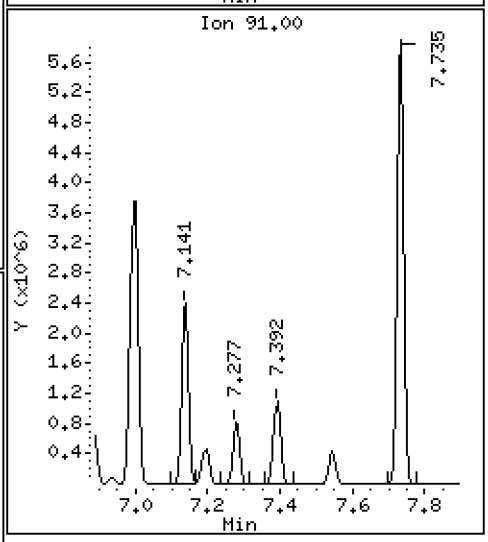
Column phase: DB-VRX Column diameter: 0.25

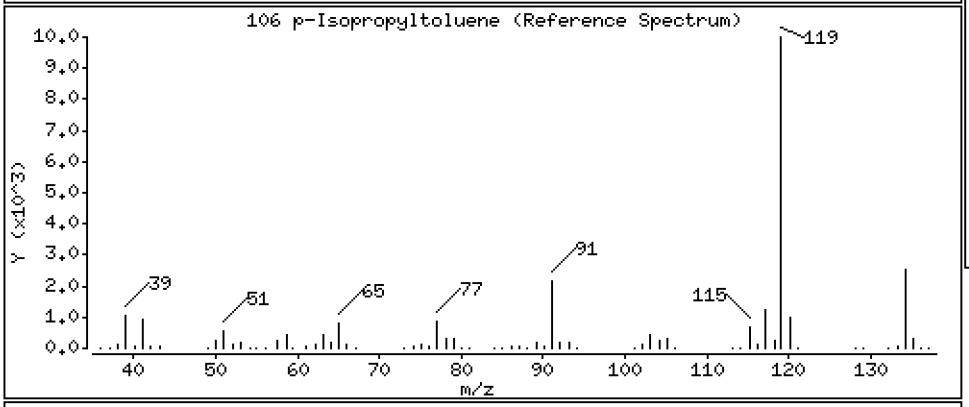
106 p-Isopropyltoluene Concentration: 199.845 ug/L

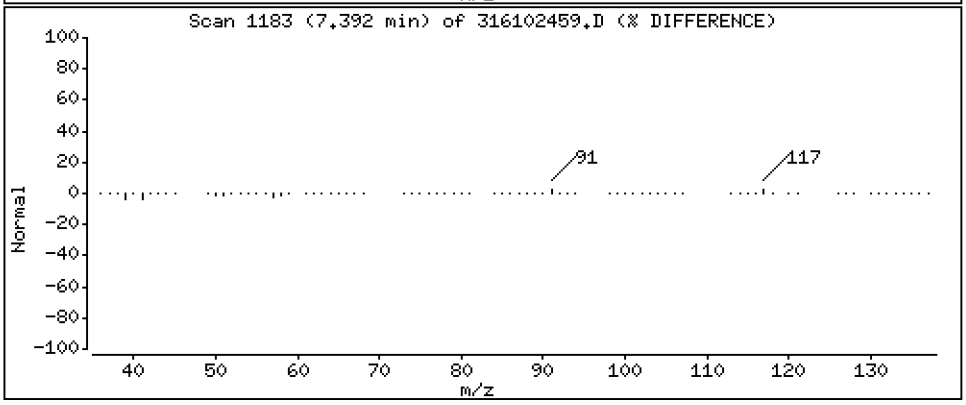












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 108

Date : 25-OCT-2016 01:36

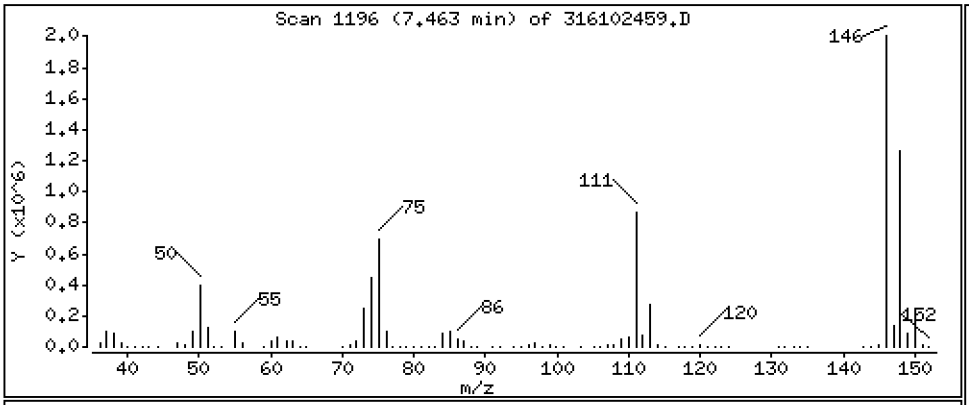
Client ID: Instrument: ms03.i

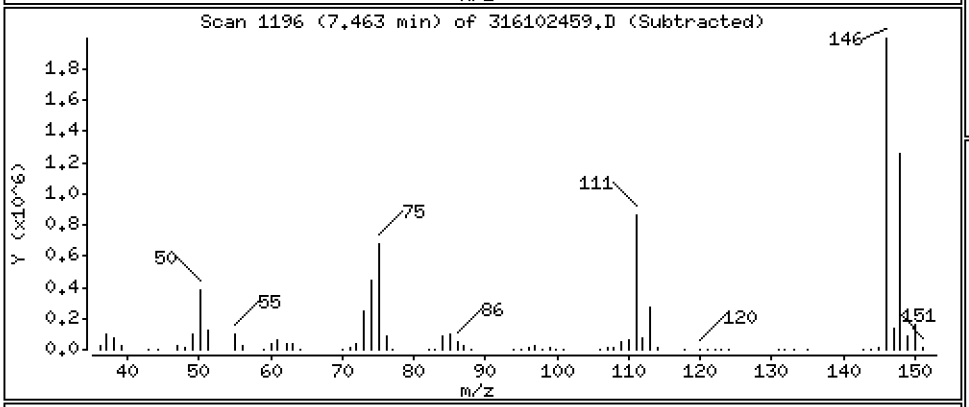
Sample Info: 1239;;1;1;6;;;

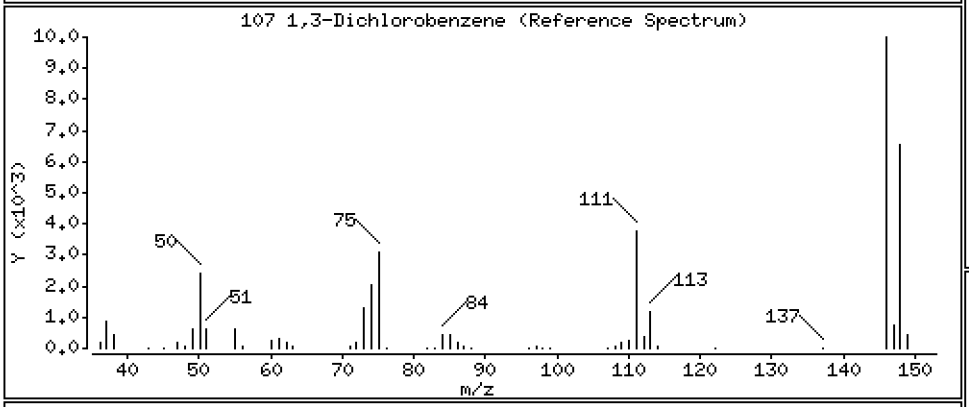
Purge Volume: 5.0 Operator: CJG

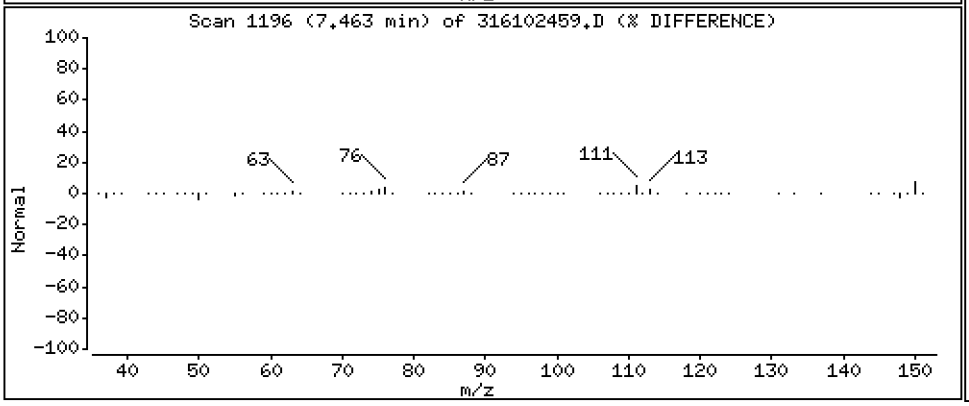
Column phase: DB-VRX Column diameter: 0.25

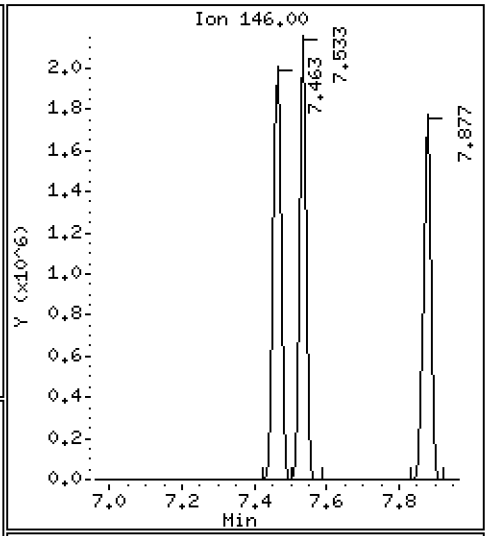
107 1,3-Dichlorobenzene Concentration: 199.899 ug/L

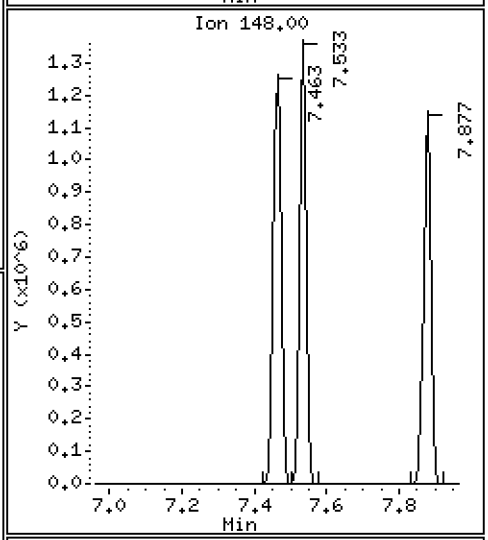


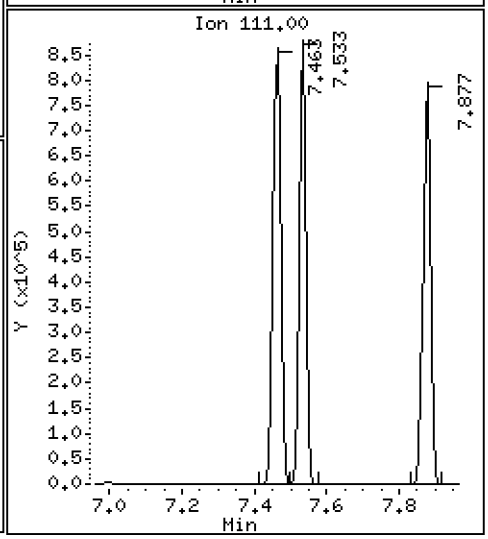












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 109

Date : 25-OCT-2016 01:36

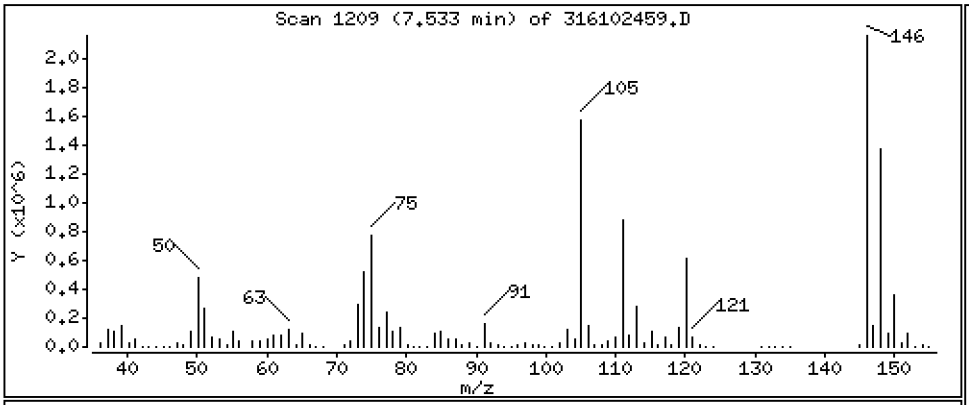
Client ID: Instrument: ms03.i

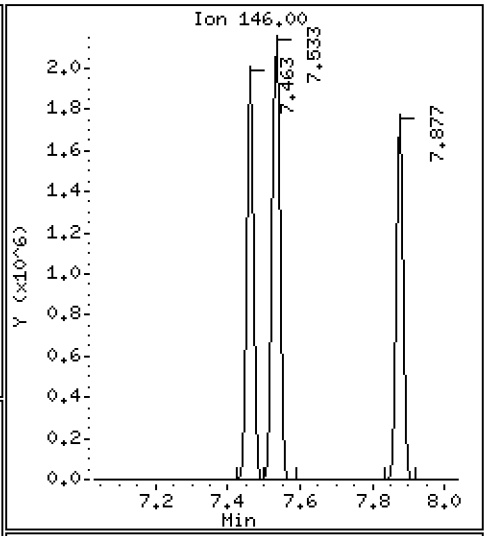
Sample Info: 1239;;1;1;6;;;

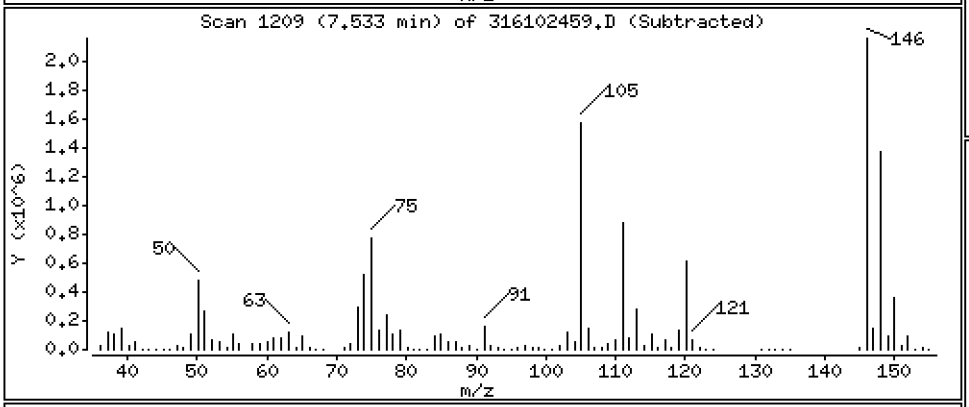
Purge Volume: 5.0 Operator: CJG

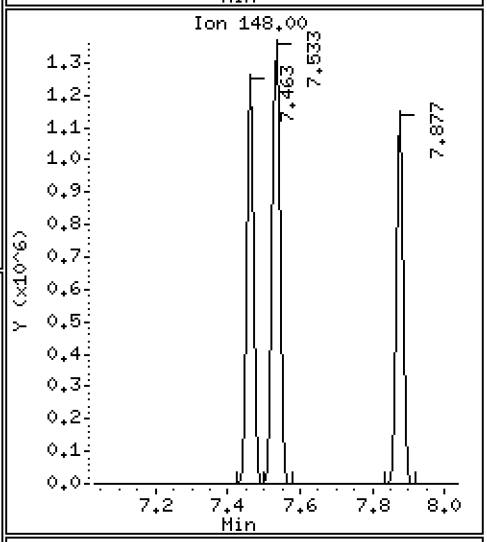
Column phase: DB-VRX Column diameter: 0.25

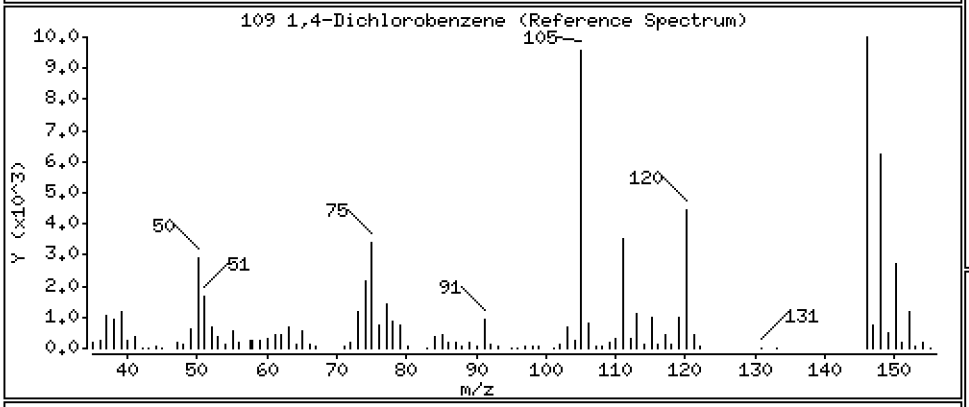
109 1,4-Dichlorobenzene Concentration: 199.953 ug/L

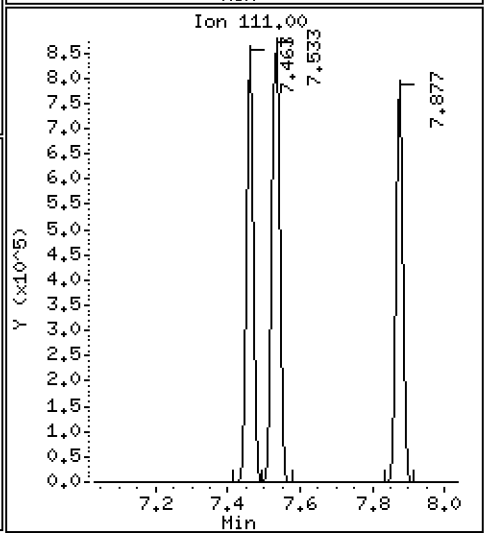


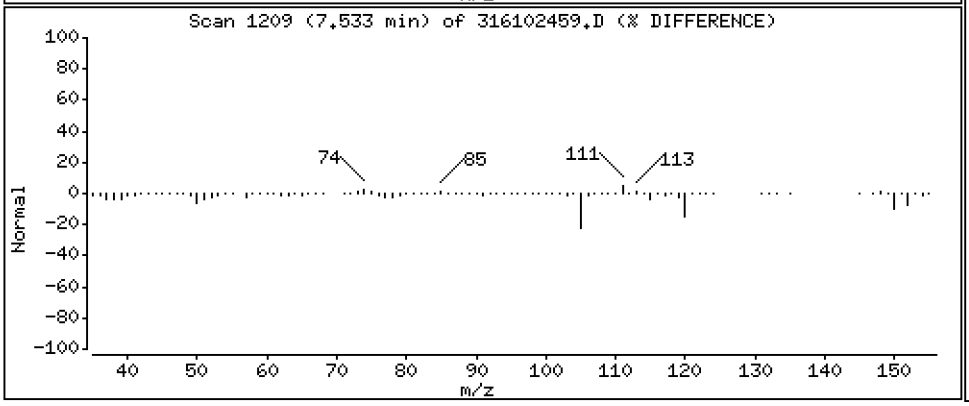












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 110

Date : 25-OCT-2016 01:36

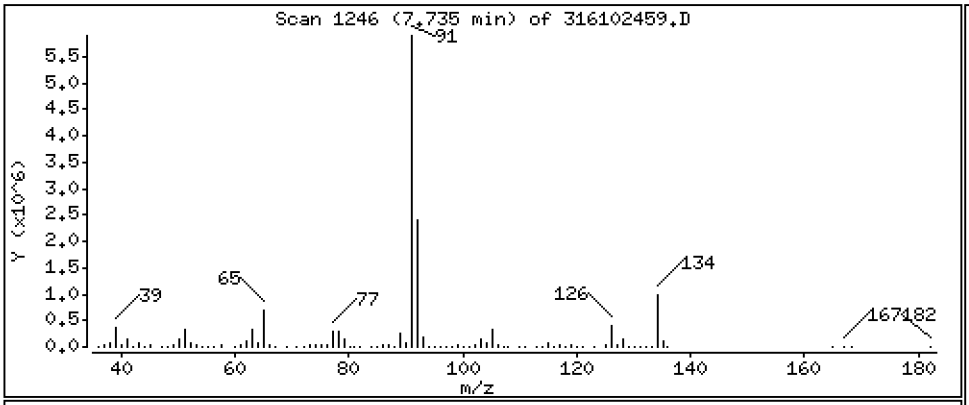
Client ID: Instrument: ms03.i

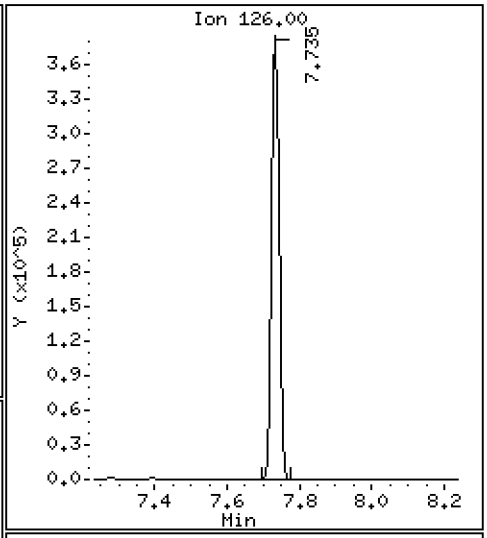
Sample Info: 1239;;1;1;6;;;

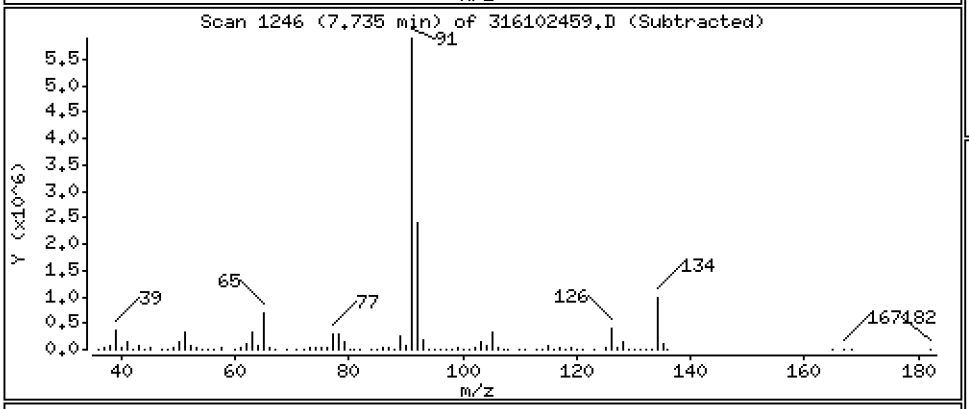
Purge Volume: 5.0 Operator: CJG

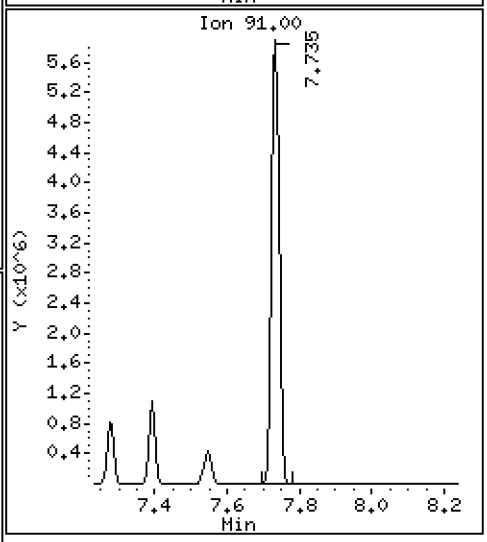
Column phase: DB-VRX Column diameter: 0.25

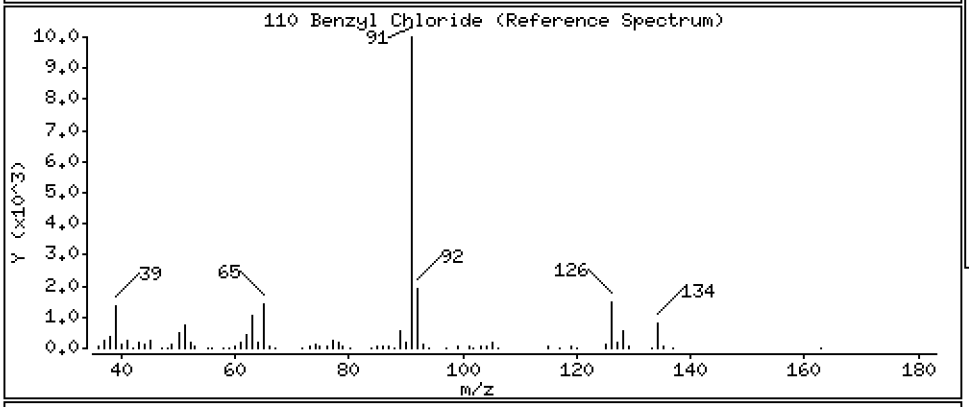
110 Benzyl Chloride Concentration: 199.646 ug/L

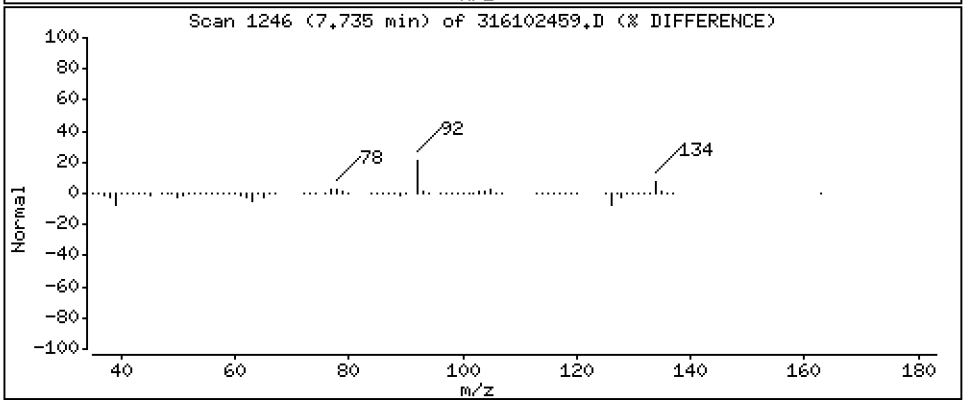












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 111

Date : 25-OCT-2016 01:36

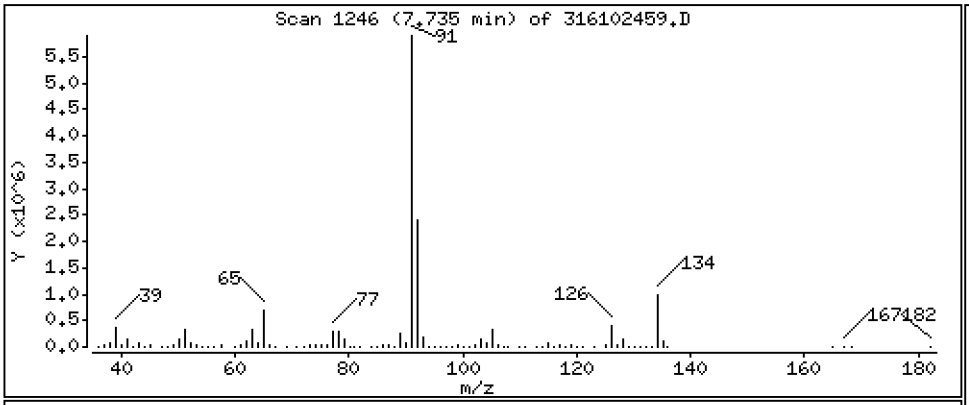
Client ID: Instrument: ms03.i

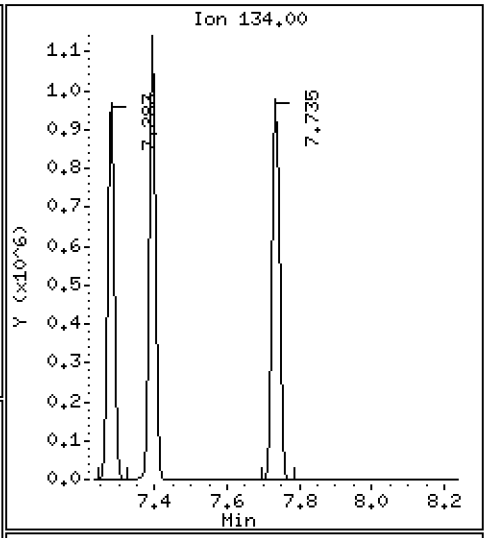
Sample Info: 1239;;1;1;6;;;

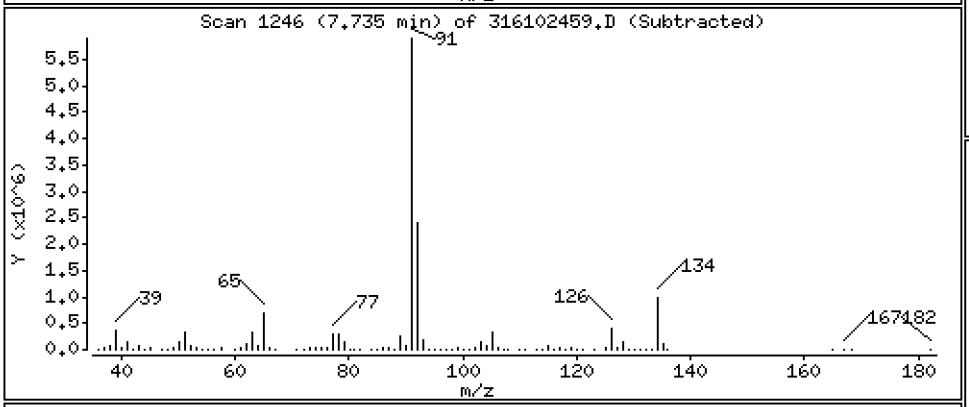
Purge Volume: 5.0 Operator: CJG

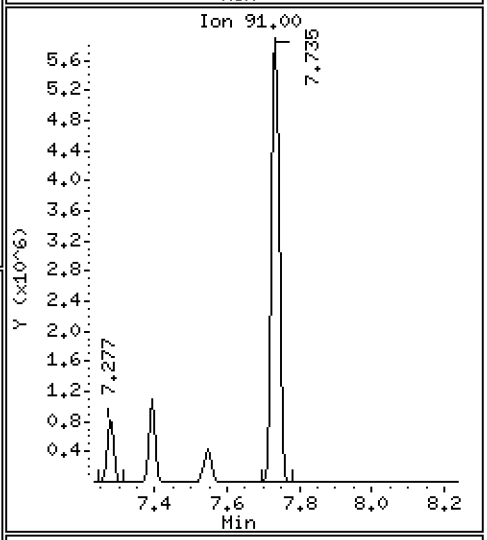
Column phase: DB-VRX Column diameter: 0.25

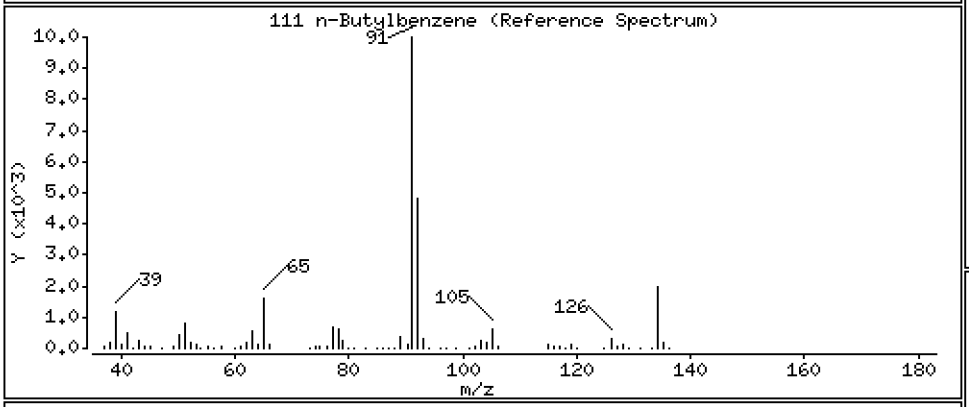
111 n-Butylbenzene Concentration: 199.764 ug/L

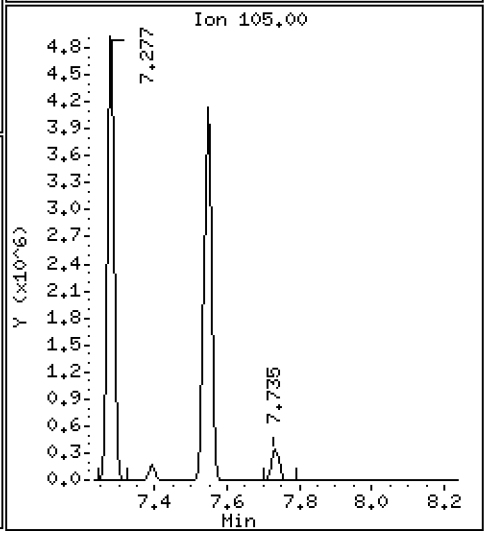


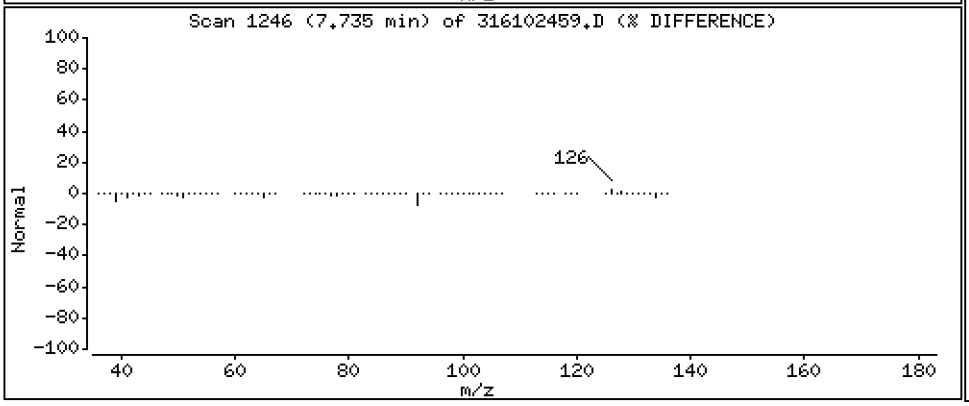












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 112

Date : 25-OCT-2016 01:36

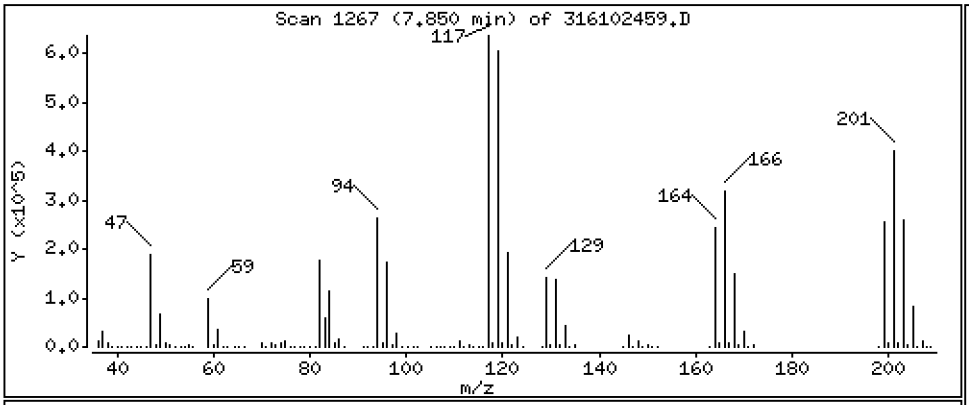
Client ID: Instrument: ms03.i

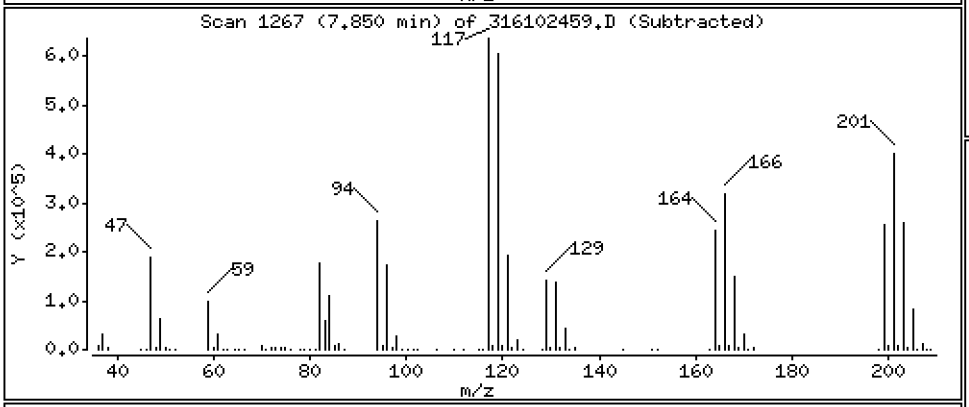
Sample Info: 1239;;1;1;6;;;

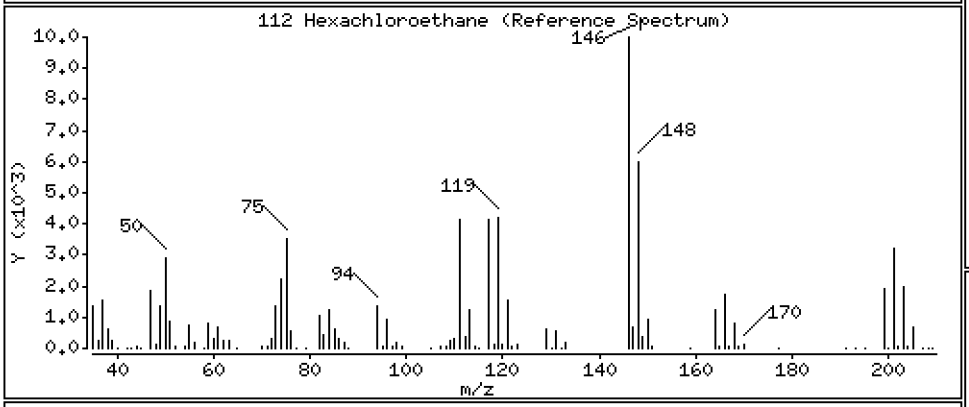
Purge Volume: 5.0 Operator: CJG

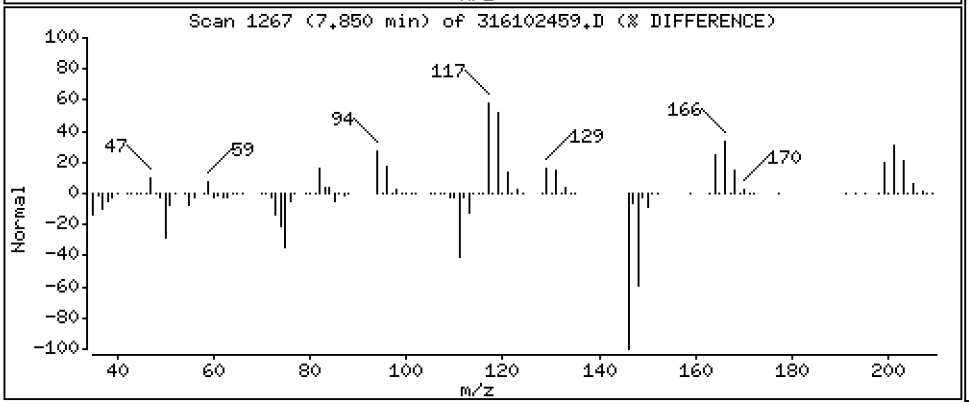
Column phase: DB-VRX Column diameter: 0.25

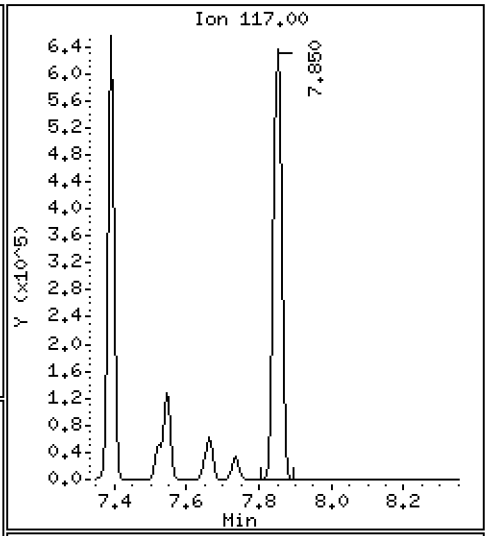
112 Hexachloroethane Concentration: 199.586 ug/L

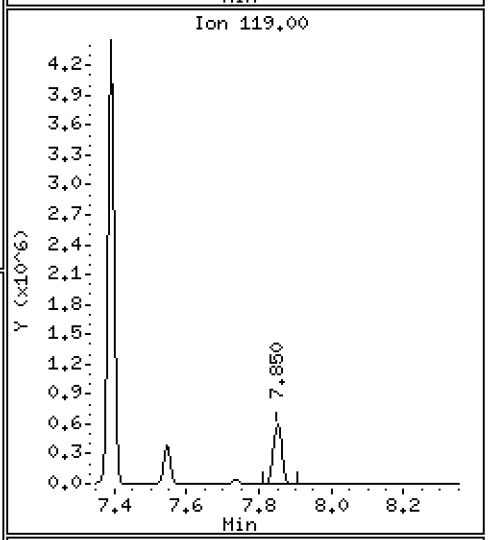


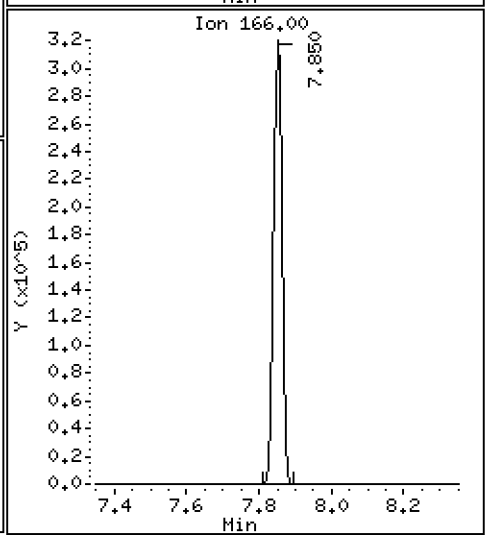












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 113

Date : 25-OCT-2016 01:36

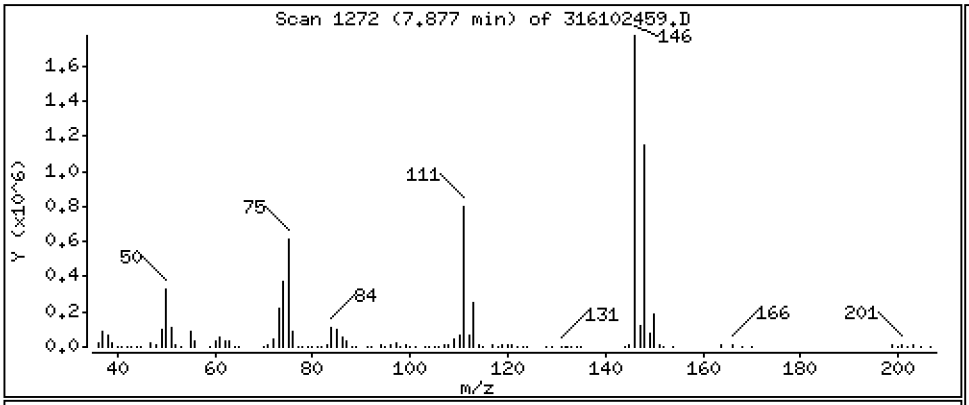
Client ID: Instrument: ms03.i

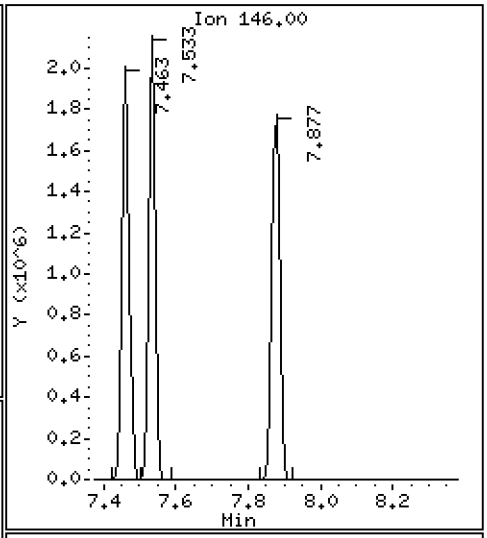
Sample Info: 1239;;1;1;6;;;

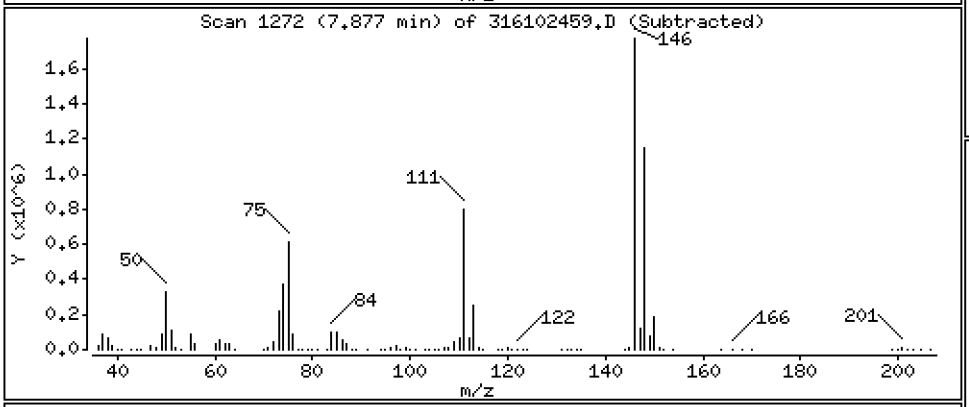
Purge Volume: 5.0 Operator: CJG

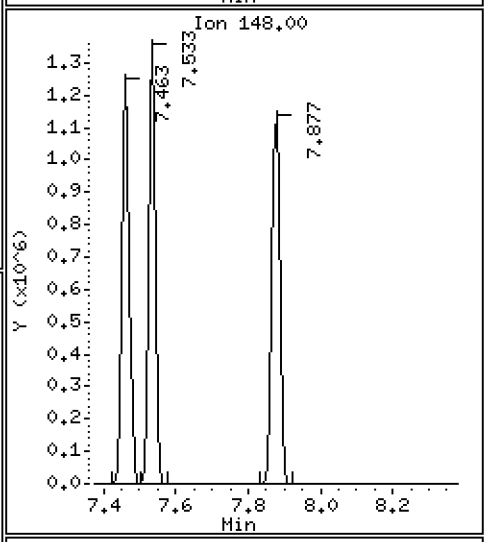
Column phase: DB-VRX Column diameter: 0.25

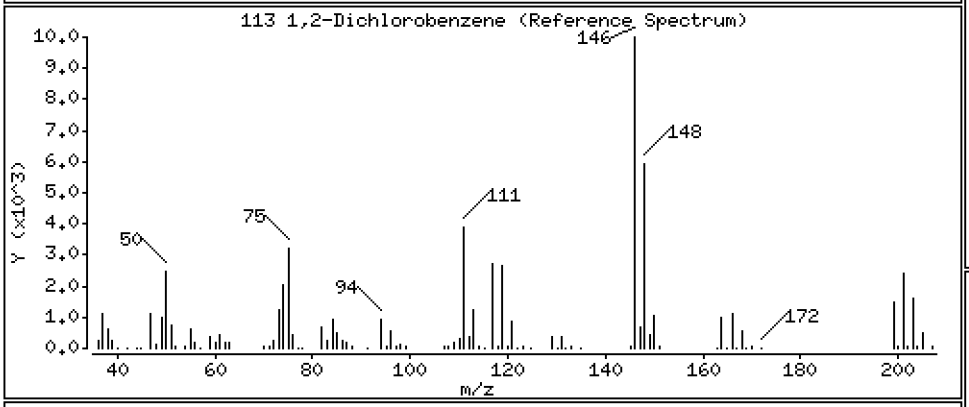
113 1,2-Dichlorobenzene Concentration: 199.939 ug/L

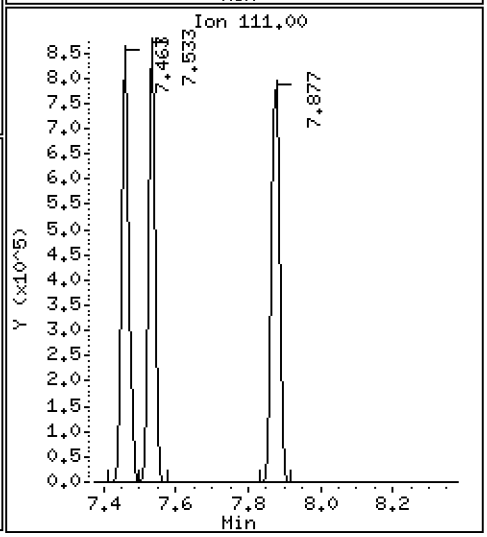


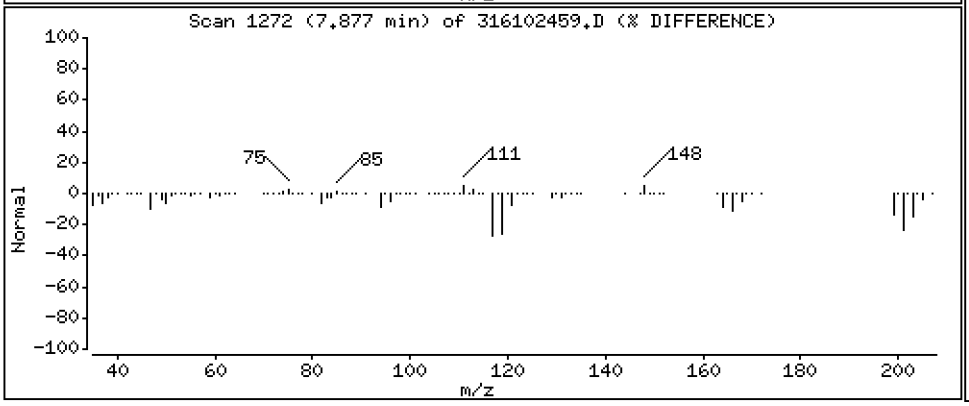












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 114

Date : 25-OCT-2016 01:36

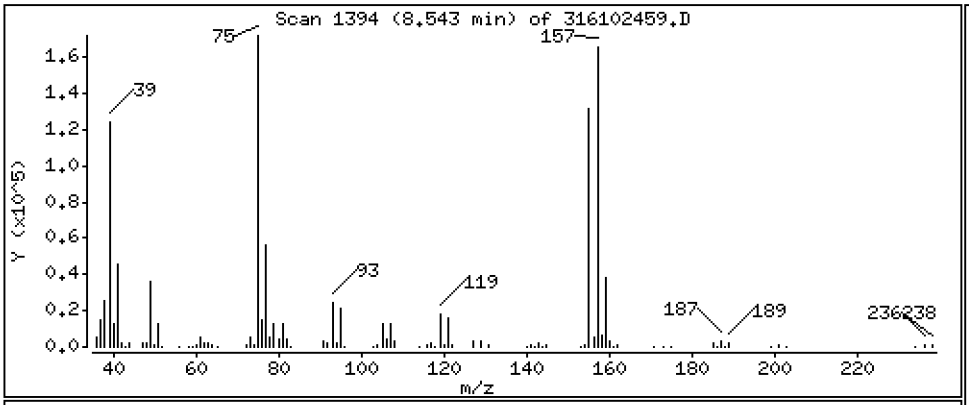
Client ID: Instrument: ms03.i

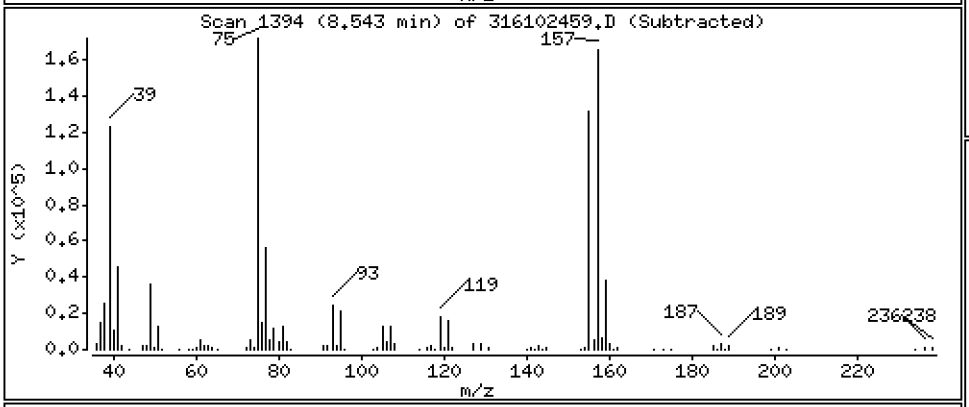
Sample Info: 1239;;1;1;6;;;

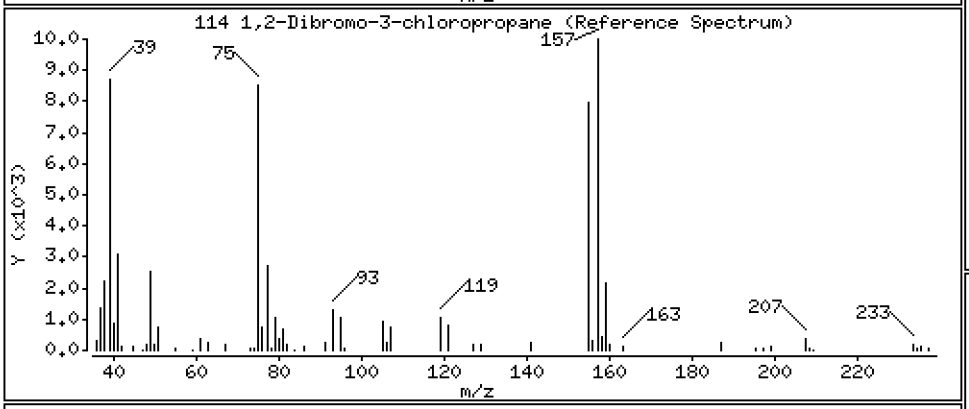
Purge Volume: 5.0 Operator: CJG

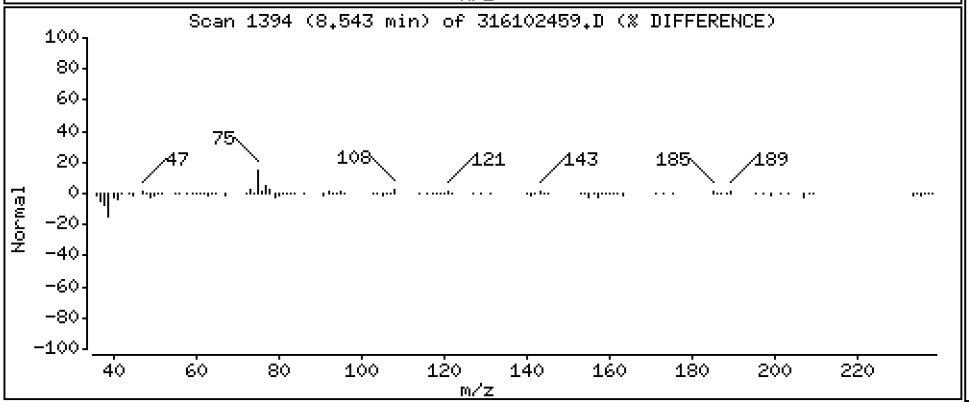
Column phase: DB-VRX Column diameter: 0.25

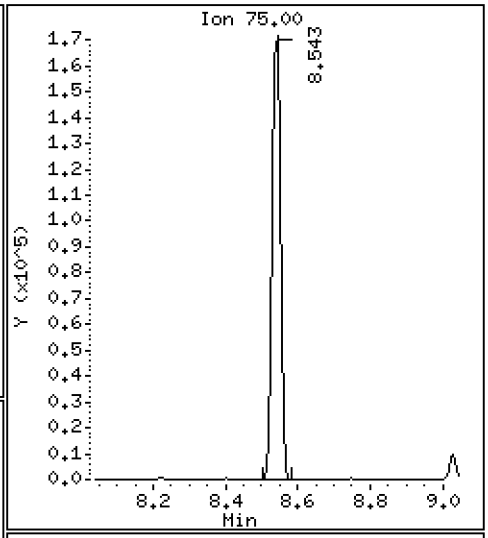
114 1,2-Dibromo-3-chloropropane Concentration: 199.950 ug/L

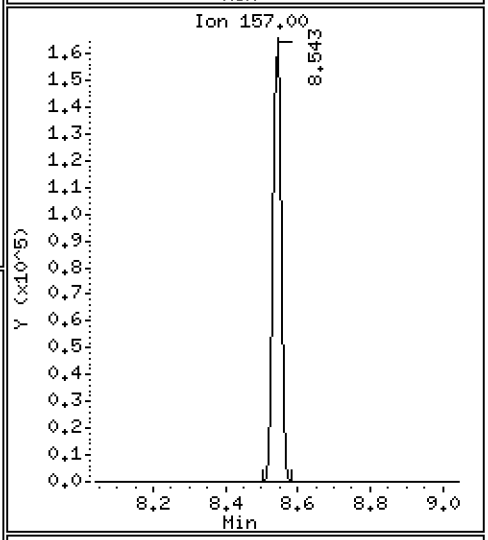


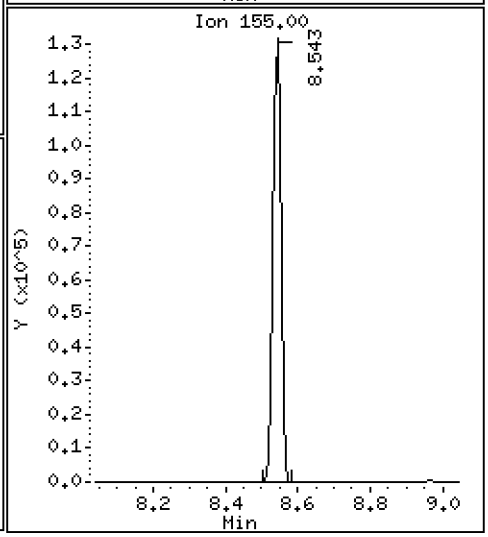












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 115

Date : 25-OCT-2016 01:36

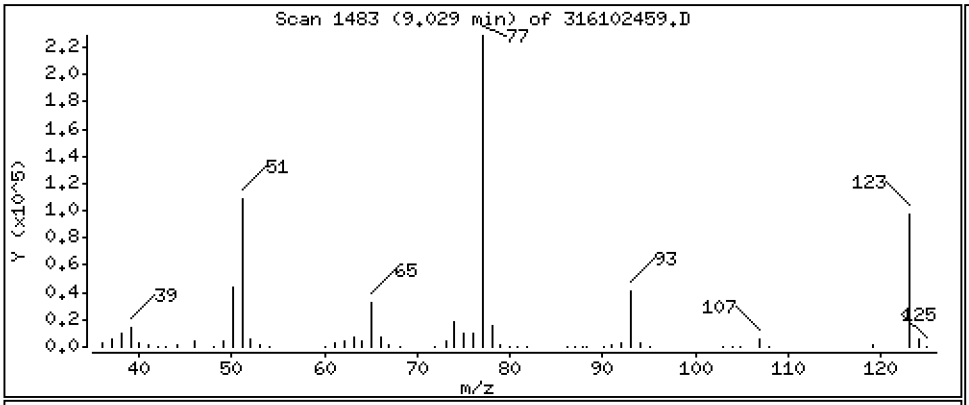
Client ID: Instrument: ms03.i

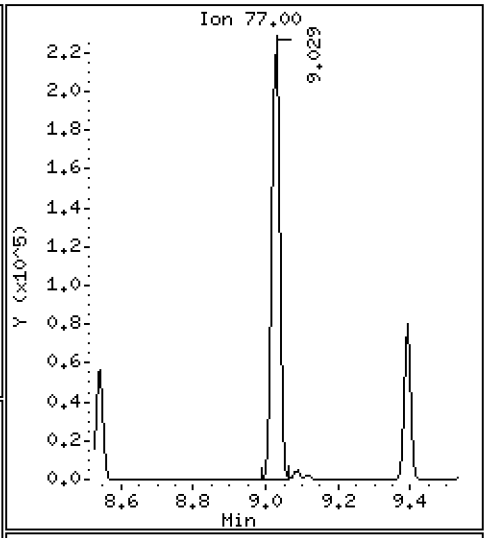
Sample Info: 1239;;1;1;6;;;

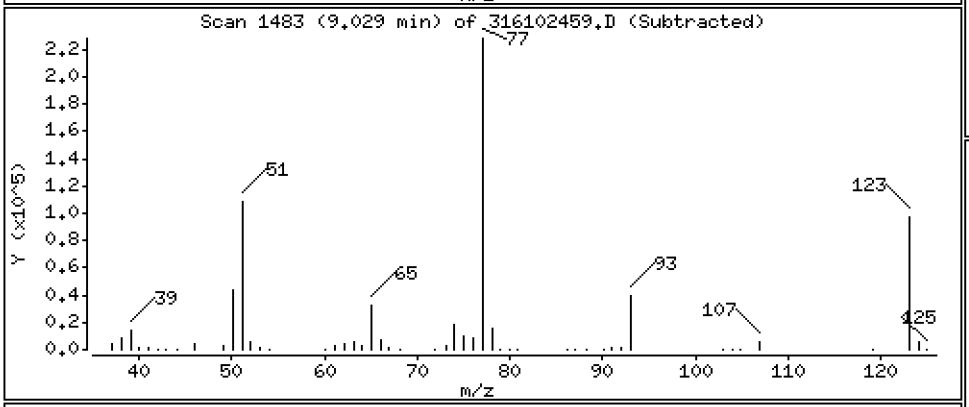
Purge Volume: 5.0 Operator: CJG

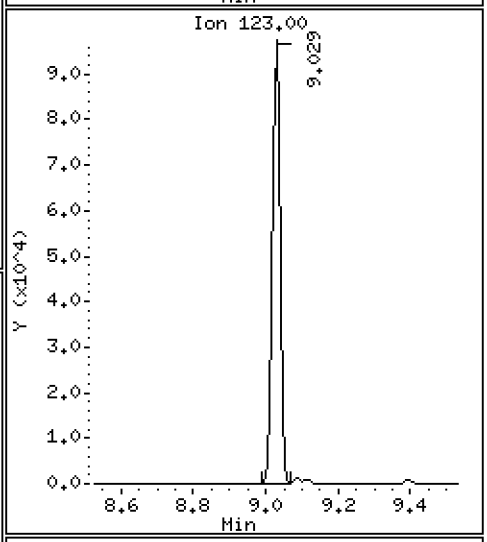
Column phase: DB-VRX Column diameter: 0.25

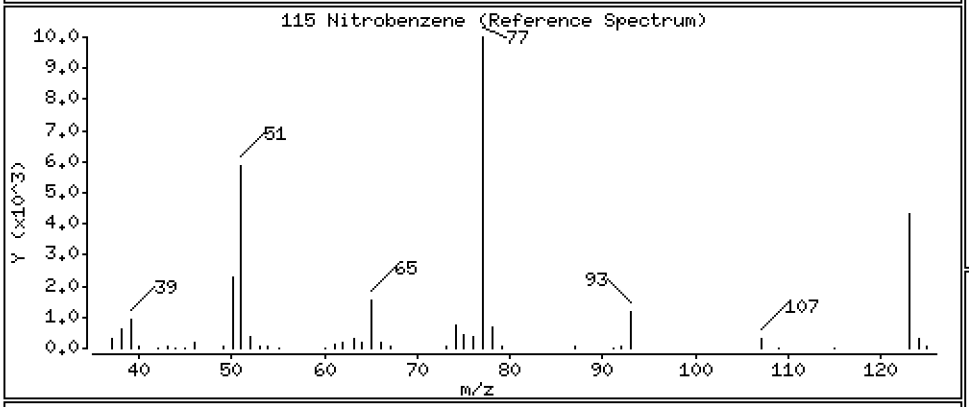
115 Nitrobenzene Concentration: 2002.92 ug/L

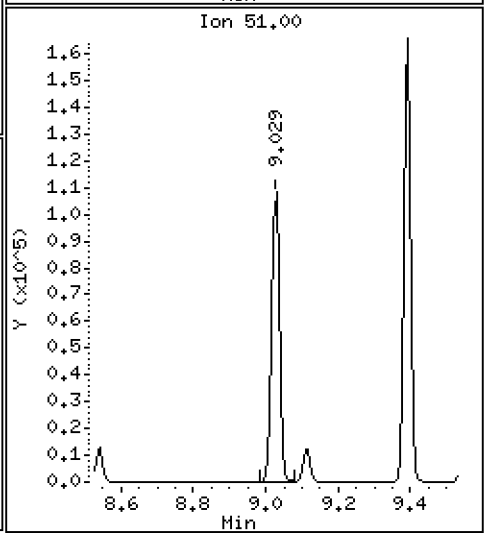


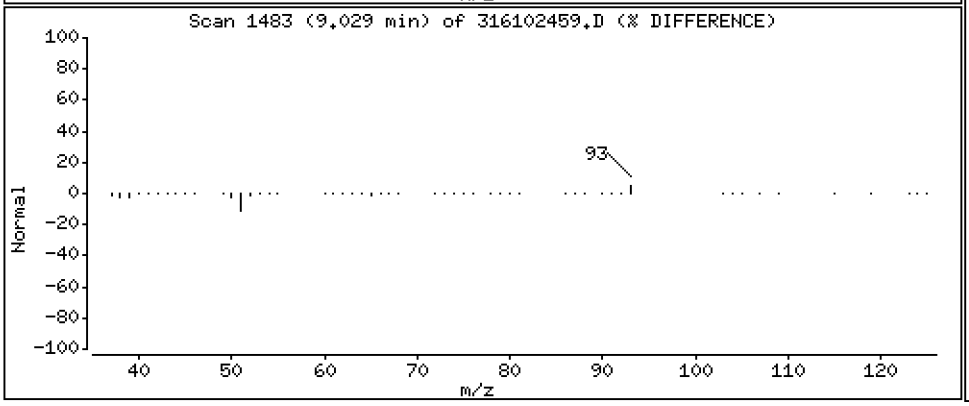












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 116

Date : 25-OCT-2016 01:36

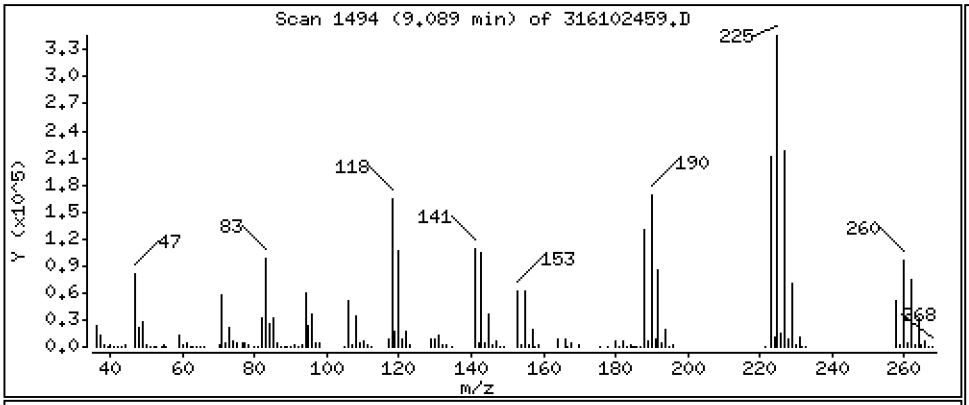
Client ID: Instrument: ms03.i

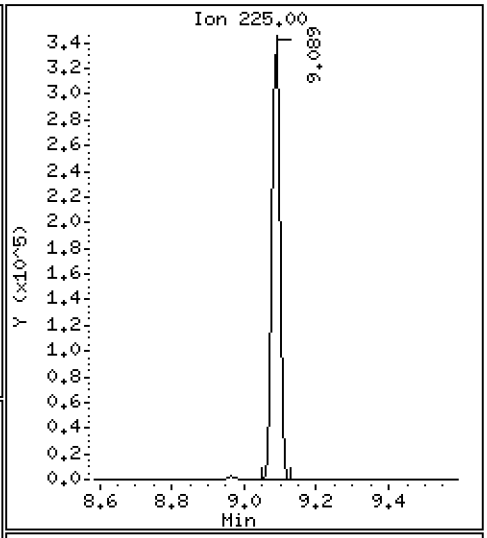
Sample Info: 1239;;1;1;6;;;

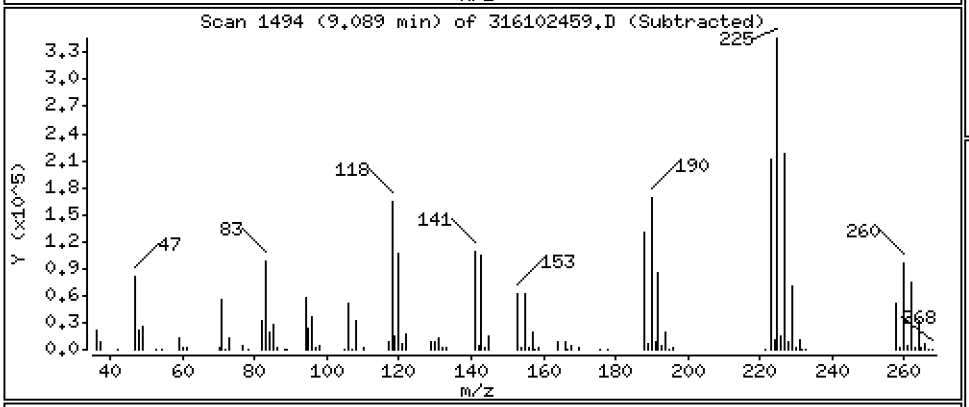
Purge Volume: 5.0 Operator: CJG

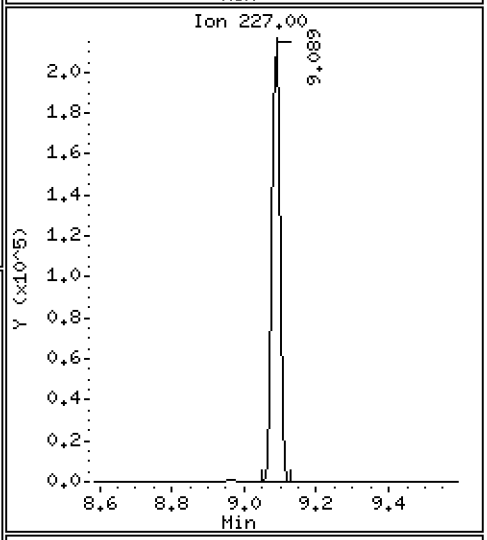
Column phase: DB-VRX Column diameter: 0.25

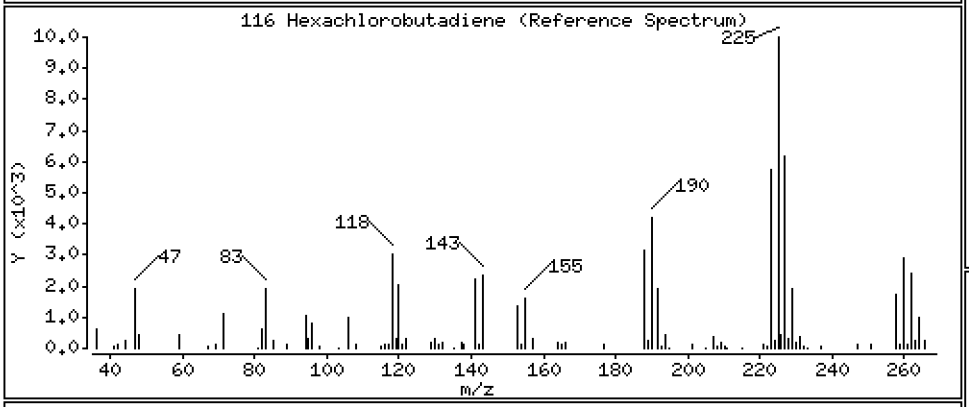
116 Hexachlorobutadiene Concentration: 199.837 ug/L

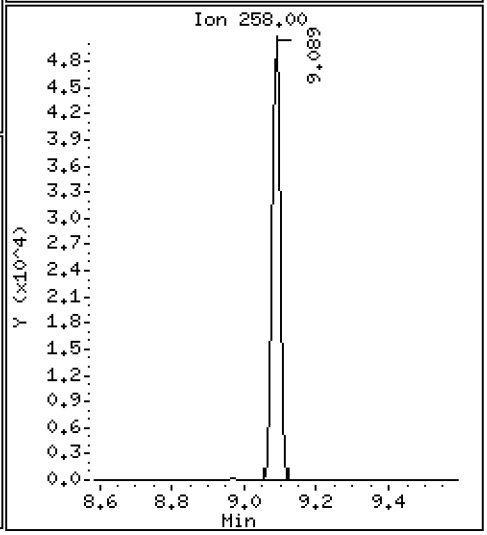


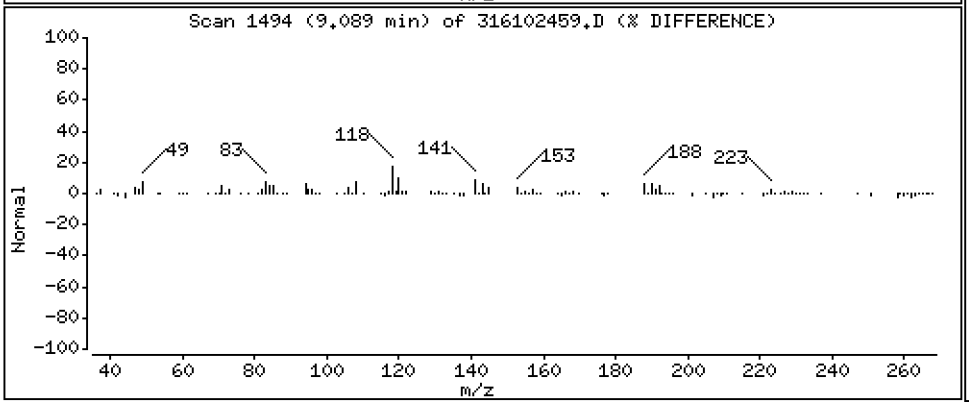












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 117

Date : 25-OCT-2016 01:36

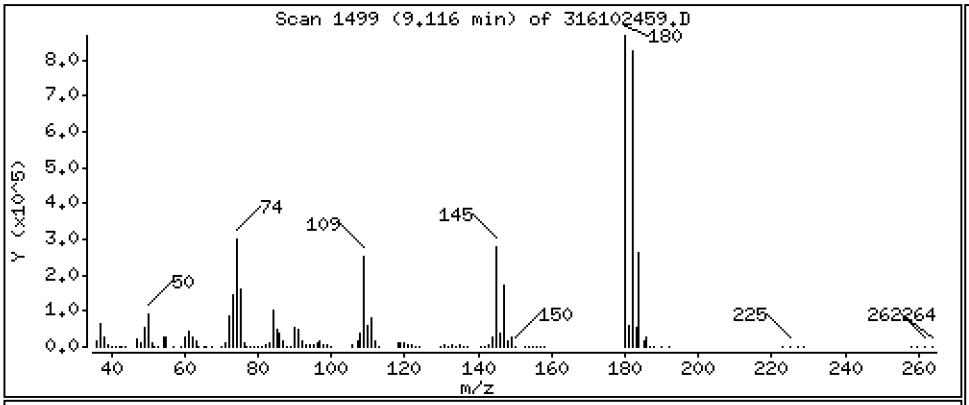
Client ID: Instrument: ms03.i

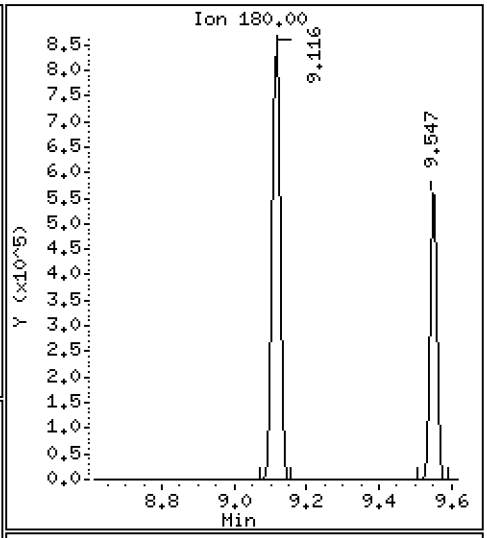
Sample Info: 1239;;1;1;6;;;

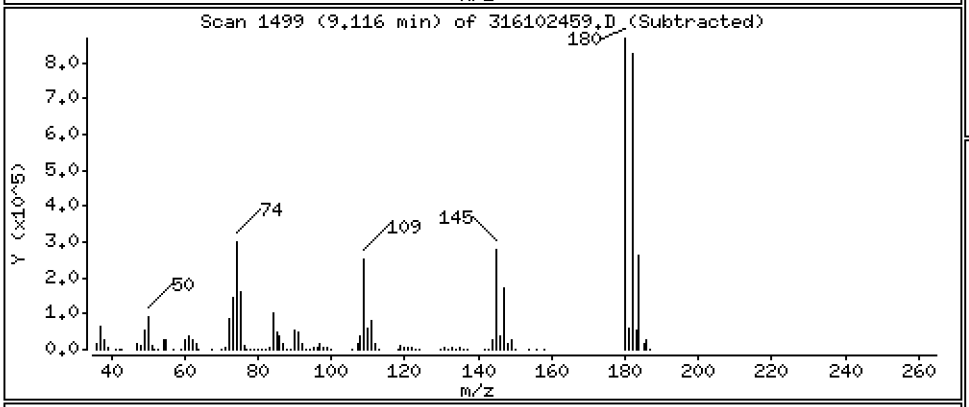
Purge Volume: 5.0 Operator: CJG

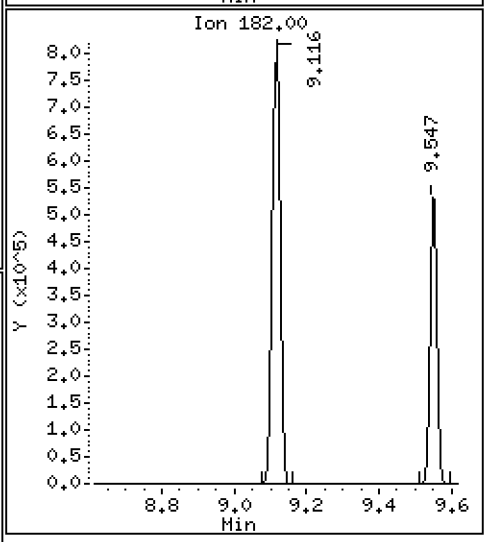
Column phase: DB-VRX Column diameter: 0.25

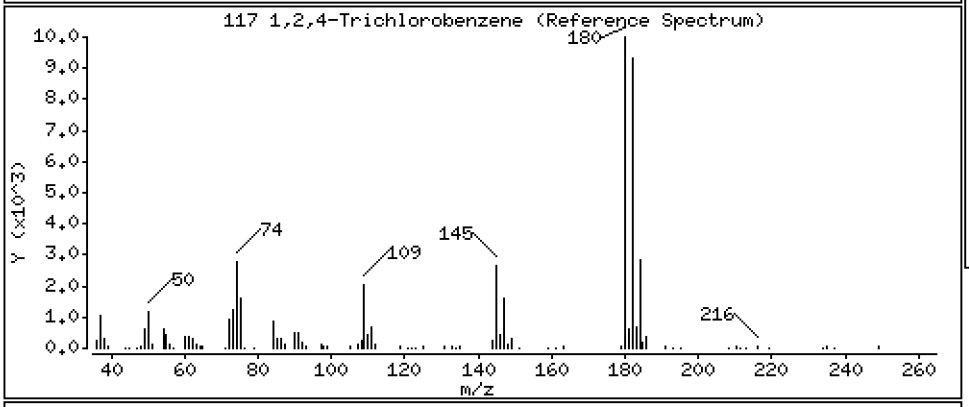
117 1,2,4-Trichlorobenzene Concentration: 199.807 ug/L

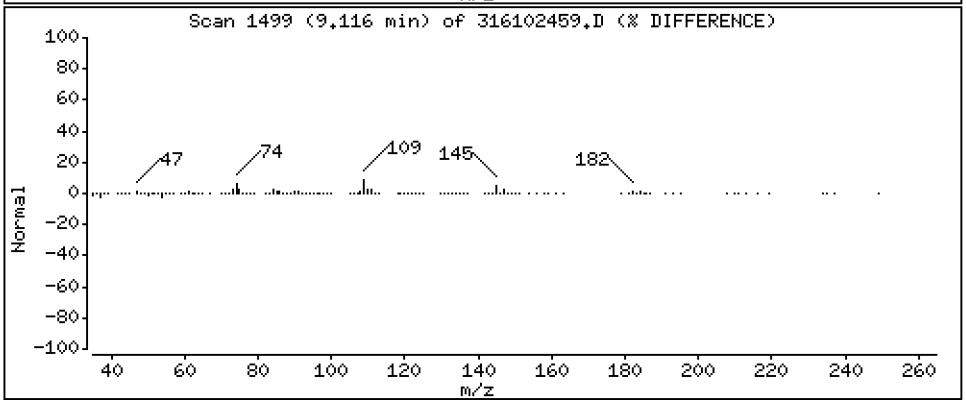












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 118

Date : 25-OCT-2016 01:36

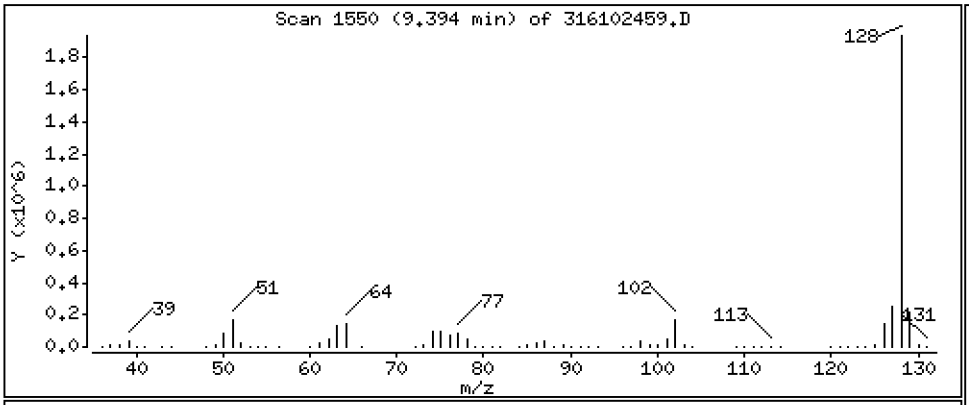
Client ID: Instrument: ms03.i

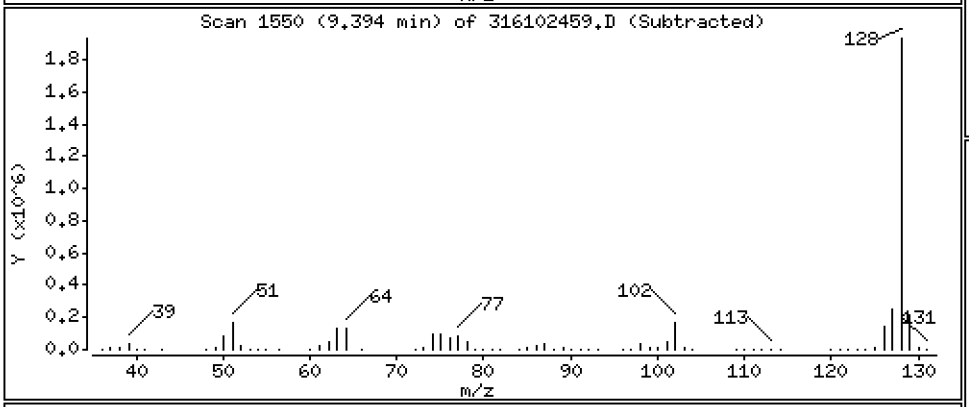
Sample Info: 1239;;1;1;6;;;

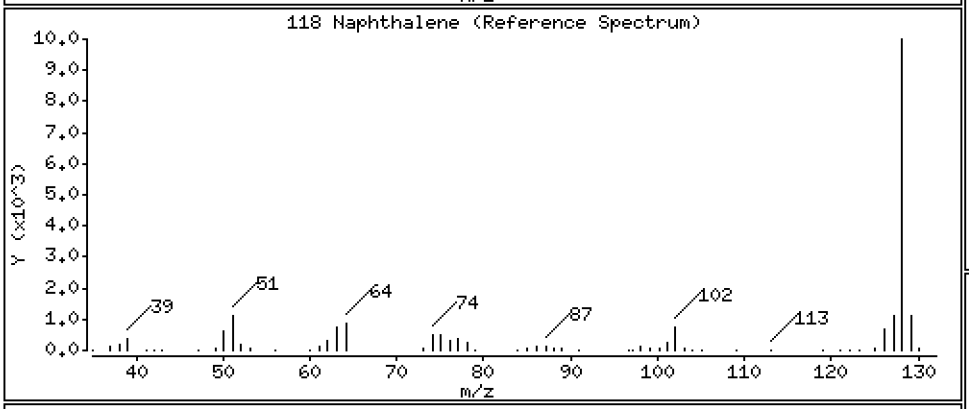
Purge Volume: 5.0 Operator: CJG

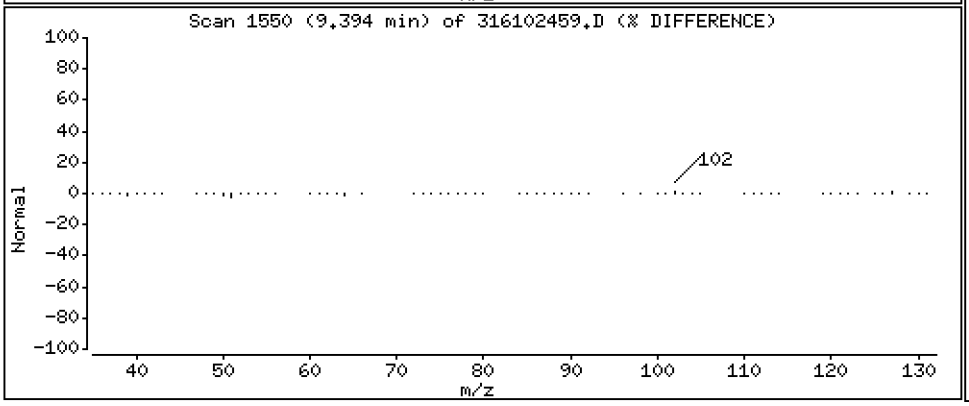
Column phase: DB-VRX Column diameter: 0.25

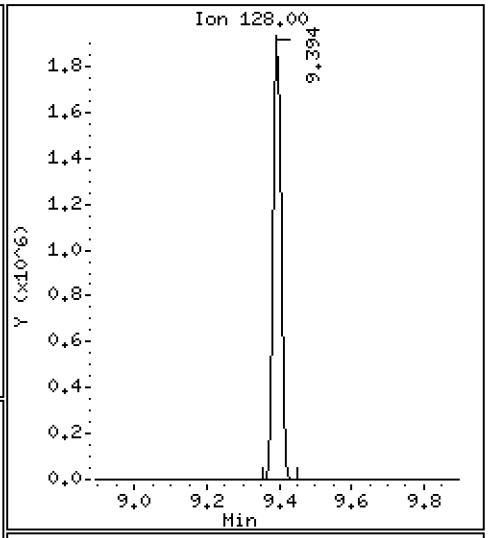
118 Naphthalene Concentration: 199.764 ug/L

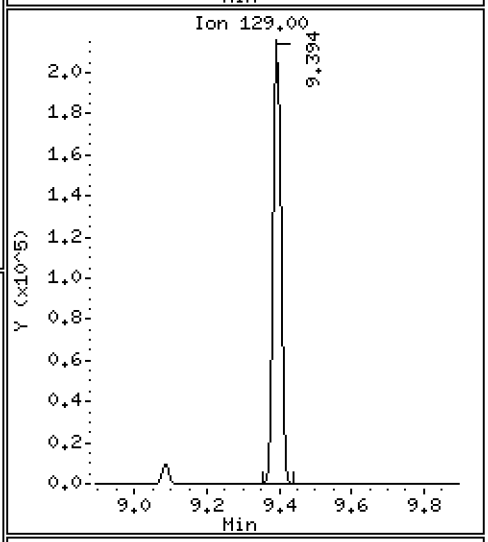


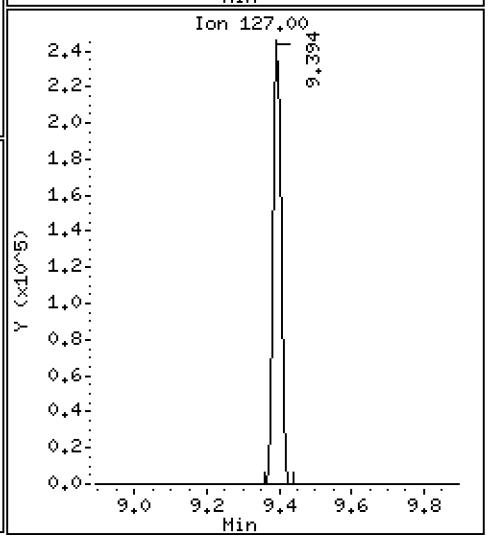












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 119

Date : 25-OCT-2016 01:36

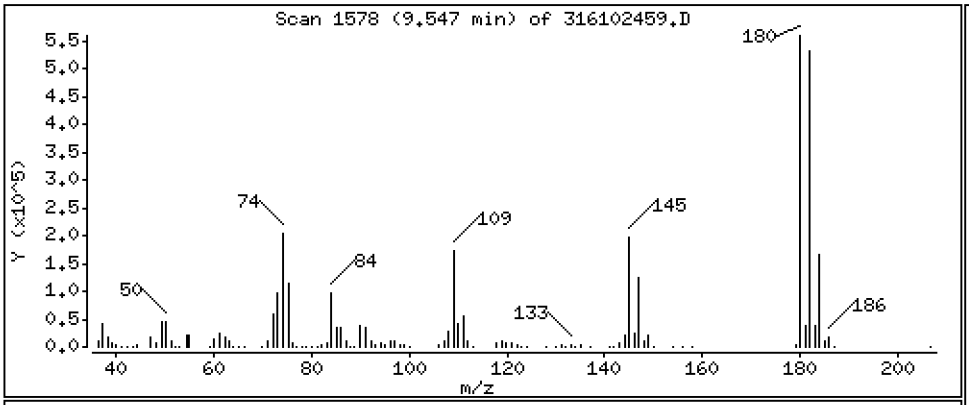
Client ID: Instrument: ms03.i

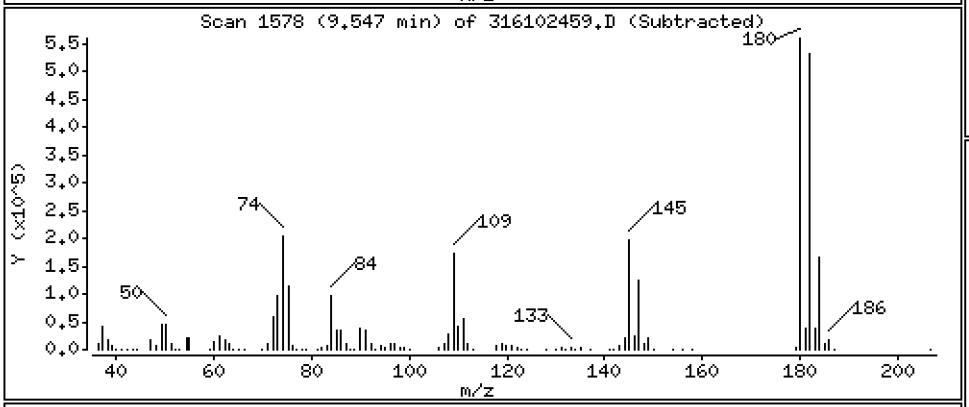
Sample Info: 1239;;1;1;6;;;

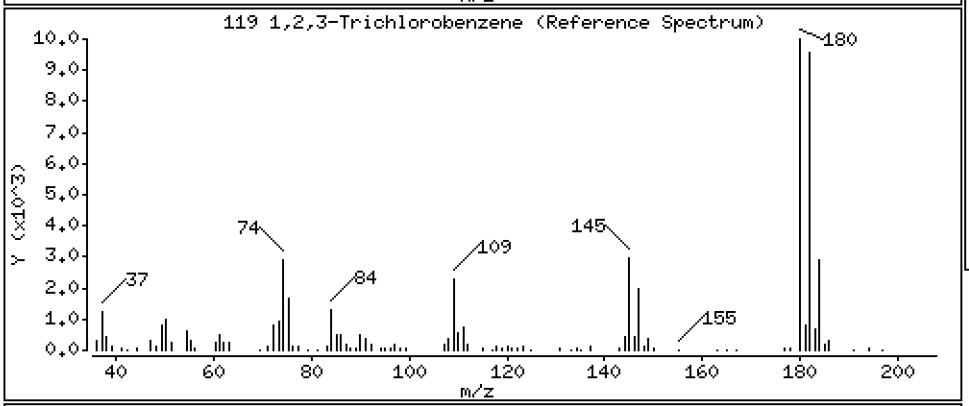
Purge Volume: 5.0 Operator: CJG

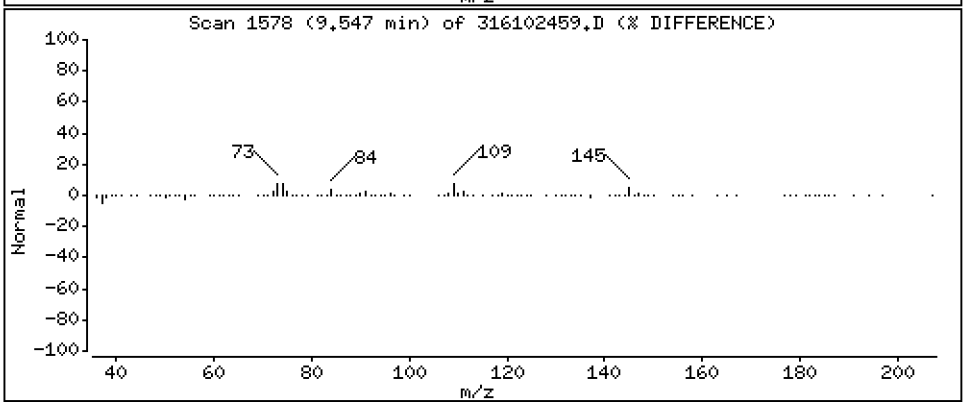
Column phase: DB-VRX Column diameter: 0.25

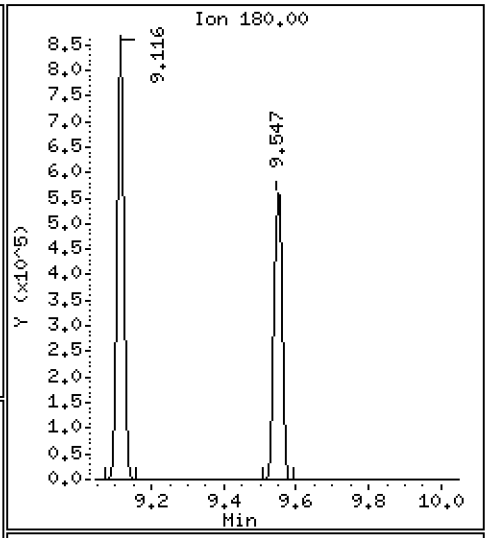
119 1,2,3-Trichlorobenzene Concentration: 200.065 ug/L

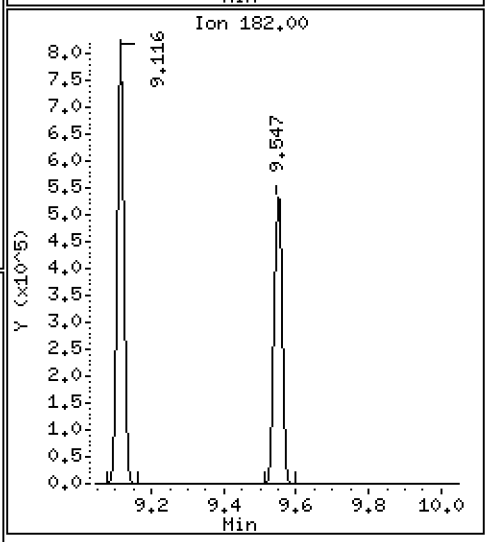










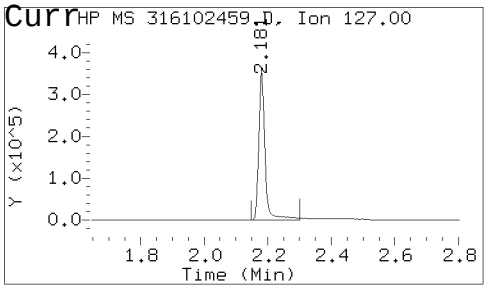


MANUAL INTEGRATION REPORT

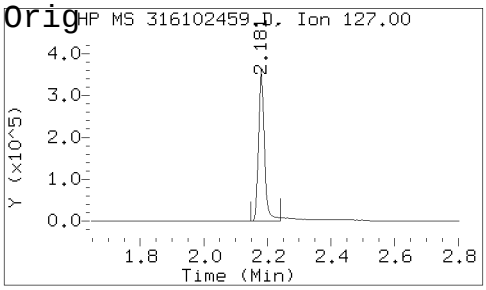
Report Date: 10/25/2016 10:12
Lab Sample ID: 1239 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102459.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102459.D
Injection Date: 25-OCT-2016 01:36 Operator: CJG

Iodomethane

Curr



Orig

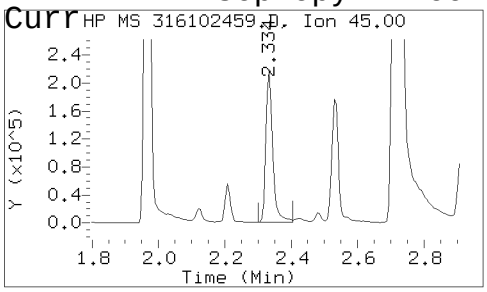


Curr. Area: 494749
Orig. Area: 472552

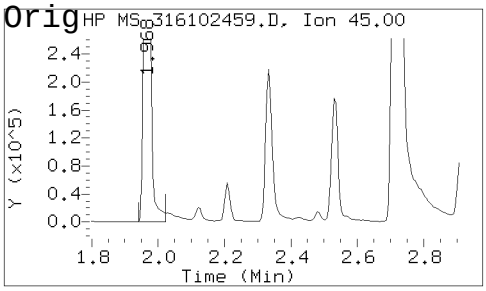
Curr. ON-COL: 199.511
Orig. ON-COL: 220.213

Isopropyl Alcohol

Curr



Orig

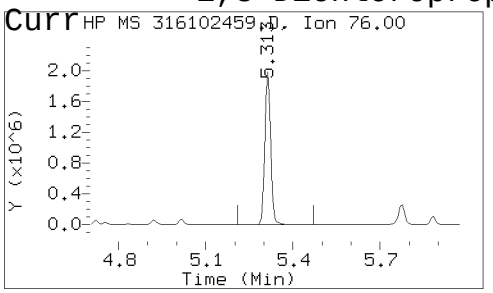


Curr. Area: 304769
Orig. Area: 1279417

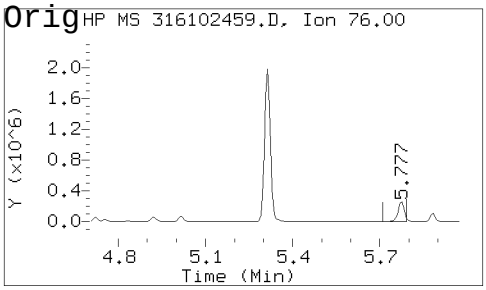
Curr. ON-COL: 1000.95
Orig. ON-COL: 2040.65

1,3-Dichloropropane

Curr



Orig



Curr. Area: 2738035
Orig. Area: 404131

Curr. ON-COL: 200.110
Orig. ON-COL: 41.2397

UNASSIGNED PEAK REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1239 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102459.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102459.D
Injection Date: 25-OCT-2016 01:36 Operator: CJG

Initial Calibration Verifications

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
2428716(LCS)

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Matrix (soil/water): WATER Lab Sample ID: 2428716

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 316102464.D

Level (low/med): Date Received: 10/24/16

% Moisture: not dec. 100.0 Date Analyzed: 10/25/16

GC Column: RTXVRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
67-64-1	Acetone	96.5	
71-43-2	Benzene	18.2	
108-86-1	Bromobenzene	18.4	
74-97-5	Bromochloromethane	18.5	
75-27-4	Bromodichloromethane	18.5	
75-25-2	Bromoform	17.4	
74-83-9	Bromomethane	16.6	
78-93-3	2-Butanone	95.3	
75-65-0	tert.- Butyl Alcohol	106	
98-06-6	tert-Butylbenzene	19.4	
104-51-8	n-Butylbenzene	18.8	
135-98-8	sec-Butylbenzene	19.9	
56-23-5	Carbon Tetrachloride	18.8	
108-90-7	Chlorobenzene	17.6	
124-48-1	Chlorodibromomethane	18.7	
75-00-3	Chloroethane	20.7	
67-66-3	Chloroform	19.5	
74-87-3	Chloromethane	18.2	
95-49-8	o-Chlorotoluene	18.8	
106-43-4	p-Chlorotoluene	18.8	
96-12-8	1,2-Dibromo-3-Chloropropane	18.0	
106-93-4	1,2-Dibromoethane	19.0	
95-50-1	1,2-Dichlorobenzene	19.4	
541-73-1	1,3-Dichlorobenzene	19.6	
106-46-7	1,4-Dichlorobenzene	19.8	
75-71-8	Dichlorodifluoromethane	16.5	
75-34-3	1,1-Dichloroethane	18.5	
107-06-2	1,2-Dichloroethane	18.4	
75-35-4	1,1-Dichloroethene	18.3	
156-59-2	cis-1,2-Dichloroethene	18.2	
156-60-5	trans-1,2-Dichloroethene	18.6	
594-20-7	2,2-Dichloropropane	16.2	
142-28-9	1,3-Dichloropropane	17.9	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
2428716(LCS)

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Matrix (soil/water): WATER Lab Sample ID: 2428716

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 316102464.D

Level (low/med): Date Received: 10/24/16

% Moisture: not dec. 100.0 Date Analyzed: 10/25/16

GC Column: RTXVRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
78-87-5	1,2-Dichloropropane	18.9	
563-58-6	1,1-Dichloropropene	18.9	
10061-01-5	cis-1,3-Dichloropropene	17.9	
10061-02-6	trans-1,3-Dichloropropene	19.3	
100-41-4	Ethylbenzene	18.5	
87-68-3	Hexachlorobutadiene	20.7	
591-78-6	2-Hexanone	102	
98-82-8	Isopropylbenzene	19.5	
99-87-6	p-Isopropyltoluene	20.0	
1634-04-4	Methyl t-Butyl Ether	17.9	
108-10-1	4-Methyl-2-Pentanone(MIBK)	101	
75-09-2	Methylene Chloride	19.4	
91-20-3	Naphthalene	16.3	
103-65-1	n-Propylbenzene	19.6	
100-42-5	Styrene	19.7	
630-20-6	1,1,1,2-Tetrachloroethane	19.5	
79-34-5	1,1,2,2-Tetrachloroethane	18.6	
127-18-4	Tetrachloroethene	22.5	
108-88-3	Toluene	19.2	
1330-20-7	Total Xylenes	56.4	
87-61-6	1,2,3-Trichlorobenzene	18.5	
120-82-1	1,2,4-Trichlorobenzene	18.4	
71-55-6	1,1,1-Trichloroethane	19.0	
79-00-5	1,1,2-Trichloroethane	18.0	
79-01-6	Trichloroethene	17.7	
75-69-4	Trichlorofluoromethane	20.3	
96-18-4	1,2,3-Trichloropropane	18.6	
95-63-6	1,2,4-Trimethylbenzene	19.9	
108-67-8	1,3,5-Trimethylbenzene	20.0	
75-01-4	Vinyl Chloride	18.8	
95-47-6	o-Xylene	19.1	
108383/106423	mp-Xylene	37.2	

Data File: 316102464.D Page 1
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610246
Lab Smp Id: 2428716 Client Smp ID: LCS for HBN 174041
Inj Date : 25-OCT-2016 03:26
Operator : CJG Inst ID: ms03.i
Smp Info : 2428716;;1;3;;LCS;1;
Misc Info : ZZ VOMS 41243 D8260W
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b0
Meth Date : 25-Oct-2016 10:10 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.259	(0.332)	214327	16.4722	16.4722	
2 Chloromethane	50	1.389	1.390	(0.367)	220539	18.1857	18.1857	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	243536	18.7796	18.7796	
4 Bromomethane	94	1.640	1.646	(0.433)	77269	16.5690	16.5690	
5 Chloroethane	64	1.711	1.723	(0.452)	165979	20.7272	20.7272	
6 Pentane	41	1.787	1.794	(0.472)	167132	24.2068	24.2068(R)	
7 Trichlorofluoromethane	101	1.793	1.799	(0.473)	296945	20.3482	20.3482	
8 Dichlorofluoromethane	67	1.826	1.826	(0.482)	370541	19.0282	19.0282	
9 Ethyl Ether	74	1.967	1.968	(0.519)	119560	18.4606	18.4606	
10 1,1-Dichloroethene	61	2.088	2.088	(0.551)	246630	18.3179	18.3179	
12 Carbon Disulfide	76	2.115	2.121	(0.558)	368821	16.0581	16.0581	
11 Freon 113	101	2.098	2.105	(0.554)	148280	19.5274	19.5274	
13 Iodomethane	127	2.175	2.181	(0.574)	16871	11.4797	11.4797(QR)	
14 Acrolein	56	2.273	2.274	(0.600)	185110	146.427	146.427	
16 3-Chloro-1-propene	41	2.344	2.345	(0.619)	216062	19.2624	19.2624	
15 Isopropyl Alcohol	45	2.333	2.334	(0.616)	33486	116.280	116.280	
17 Methylene Chloride	84	2.399	2.405	(0.633)	175991	19.4470	19.4470	
18 Acetone	58	2.426	2.427	(0.640)	67377	96.5141	96.5141	
19 Methyl acetate	74	2.480	2.481	(0.655)	26852	19.3839	19.3839	
20 trans-1,2-Dichloroethene	61	2.486	2.487	(0.656)	243837	18.6329	18.6329	
21 Hexane	57	2.519	2.519	(0.665)	354411	19.2294	19.2294	

Data File: 316102464.D Page 2
Report Date: 25-Oct-2016 10:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
22 Methyl t-Butyl Ether	73	2.529	2.530	(0.667)	404818	17.9253	17.9253	
23 tert.- Butyl Alcohol	59	2.568	2.563	(0.678)	51408	105.771	105.771	
24 Acetonitrile	41	2.682	2.683	(0.708)	78788	107.445	107.445	
25 Diisopropyl ether	45	2.720	2.721	(0.718)	556397	18.8231	18.8231	
26 Chloroprene	53	2.797	2.798	(0.738)	260380	20.1785	20.1785	
27 1,1-Dichloroethane	63	2.813	2.814	(0.742)	315735	18.5318	18.5318	
28 Acrylonitrile	53	2.841	2.841	(0.750)	285392	92.5228	92.5228	
30 n-Propanol	41	2.911	2.912	(0.768)	107252	203.656	203.656(Q)	
29 Ethyl tert-butyl ether	59	2.911	2.912	(0.768)	465849	18.5667	18.5667	
31 Vinyl acetate	86	2.928	2.929	(0.773)	30412	16.3116	16.3116(Q)	
32 cis-1,2-Dichloroethene	61	3.097	3.098	(0.817)	237698	18.1745	18.1745	
33 2,2-Dichloropropane	77	3.157	3.158	(0.833)	165736	16.1713	16.1713	
M 100 1,2-Dichloroethene, Total	61				481535	36.8074	36.8074	
34 Bromochloromethane	128	3.206	3.207	(0.846)	67479	18.5457	18.5457	
35 Cyclohexane	84	3.212	3.212	(0.847)	271327	19.3069	19.3069	
36 Chloroform	83	3.233	3.234	(0.853)	312455	19.4891	19.4891	
37 Ethyl acetate	43	3.282	3.278	(0.866)	147618	19.7207	19.7207	
38 Methyl acrylate	55	3.293	3.294	(0.869)	135188	18.6211	18.6211	
39 Carbon Tetrachloride	117	3.321	3.321	(0.876)	168448	18.7837	18.7837	
40 Tetrahydrofuran	42	3.332	3.327	(0.879)	218403	92.0853	92.0853	
$ 41 Dibromofluoromethane	113	3.337	3.338	(0.881)	176953	25.1714	25.1714	
42 1,1,1-Trichloroethane	97	3.359	3.360	(0.886)	226786	18.9740	18.9740	
43 2-Butanone	72	3.397	3.398	(0.896)	96313	95.2665	95.2665	
44 1,1-Dichloropropene	75	3.424	3.425	(0.904)	238871	18.9055	18.9055	
45 1-Chlorobutane	41	3.446	3.447	(0.909)	189682	20.7033	20.7033	
46 Heptane	71	3.512	3.512	(0.927)	120842	20.9633	20.9633	
48 Propionitrile	54	3.577	3.578	(0.944)	110987	96.1541	96.1541	
47 Benzene	78	3.561	3.567	(0.940)	710189	18.2059	18.2059	
49 Methacrylonitrile	67	3.583	3.583	(0.945)	65258	18.3736	18.3736	
50 tert-amyl methyl Ether	73	3.599	3.600	(0.950)	376890	18.5894	18.5894	
$ 51 1,2-Dichloroethane-d4	65	3.637	3.638	(0.960)	239897	28.6880	28.6880	
54 Isobutyl alcohol	43	3.632	3.632	(0.958)	50635	277.434	277.434(R)	
52 1,2-Dichloroethane	62	3.675	3.676	(0.970)	212081	18.3573	18.3573	
53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	38043	99.8941	99.8941	
* 55 Fluorobenzene	96	3.790	3.791	(1.000)	1066160	30.0000		
56 Diisobutylene	57	3.790	3.796	(1.000)	483609	22.1128	22.1128	
57 Trichloroethene	95	3.883	3.883	(1.024)	164246	17.6881	17.6881	
58 Methyl cyclohexane	83	3.883	3.883	(0.674)	287134	18.8439	18.8439	
59 tert-Amyl Ethylether	59	3.992	3.987	(1.053)	336682	18.6427	18.6427	
60 Dibromomethane	93	4.139	4.139	(1.092)	84181	17.7619	17.7619	
61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	181614	18.9450	18.9450	
62 Bromodichloromethane	83	4.221	4.222	(1.114)	178738	18.5253	18.5253	
63 Methyl methacrylate	41	4.292	4.293	(1.132)	123549	18.7021	18.7021	
64 1,4-Dioxane	88	4.336	4.336	(1.144)	25027	786.828	786.828(R)	
65 2-Chloroethylvinyl ether	63	4.548	4.549	(1.200)	83502	17.8853	17.8853	
66 cis-1,3-Dichloropropene	75	4.603	4.604	(0.799)	221896	17.9139	17.9139	
67 Octane	85	4.608	4.609	(0.800)	75376	20.2594	20.2594	
$ 68 Toluene-d8	98	4.723	4.724	(0.820)	769488	27.1352	27.1352	
69 Toluene	92	4.756	4.756	(0.826)	419908	19.2033	19.2033	
70 Chloroacetonitrile	48	4.827	4.833	(0.838)	16692	85.3655	85.3655	
71 2-Nitropropane	41	4.908	4.909	(0.852)	129003	84.3970	84.3970	
72 1,1-Dichloro-2-propanone	63	4.919	4.920	(0.854)	13436	91.8616	91.8616(Q)	
73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.986	(0.865)	759789	100.790	100.790	
75 trans-1,3-Dichloropropene	75	5.012	5.013	(0.870)	207256	19.2560	19.2560	

Data File: 316102464.D Page 3
Report Date: 25-Oct-2016 10:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
74 Tetrachloroethene	164	5.007	5.007	(0.869)	118118	22.5487	22.5487	
76 Ethyl methacrylate	69	5.094	5.095	(0.884)	195737	19.8433	19.8433	
77 1,1,2-Trichloroethane	83	5.121	5.122	(0.889)	114438	18.0028	18.0028	
78 Chlorodibromomethane	129	5.247	5.247	(0.911)	107011	18.7188	18.7188	
79 1,3-Dichloropropane	76	5.312	5.313	(0.922)	246087	17.9384	17.9384(M)	H
80 1,2-Dibromoethane	107	5.421	5.422	(0.941)	120104	18.9954	18.9954	
81 2-Hexanone	43	5.541	5.542	(0.962)	485645	101.710	101.710	
82 1-Chlorohexane	91	5.738	5.739	(0.996)	208004	18.6517	18.6517	
* 83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	459017	30.0000		
85 Ethylbenzene	106	5.781	5.782	(1.004)	231784	18.4977	18.4977	
84 Chlorobenzene	112	5.771	5.777	(1.002)	403790	17.6014	17.6014	
86 1,1,1,2-Tetrachloroethane	131	5.814	5.815	(1.009)	117502	19.5070	19.5070	
87 mp-Xylene	106	5.880	5.880	(1.021)	544606	37.2463	37.2463	
M 120 1,3-Dichloropropene, Total	75				429152	37.1700	37.1700	
88 o-Xylene	106	6.196	6.197	(1.076)	248220	19.1204	19.1204	
89 Styrene	104	6.234	6.235	(0.829)	410378	19.6966	19.6966	
90 Bromoform	173	6.262	6.262	(0.833)	45524	17.4106	17.4106	
91 Isopropylbenzene	105	6.425	6.426	(0.855)	663701	19.4952	19.4952	
$ 92 4-Bromofluorobenzene	174	6.649	6.650	(0.885)	163428	28.1078	28.1078	
M 121 TOTAL XYLENES	106				792826	56.3668	56.3668	
94 n-Propylbenzene	120	6.736	6.737	(0.896)	168854	19.6143	19.6143	
93 Bromobenzene	156	6.731	6.732	(0.895)	131196	18.3826	18.3826	
95 1,1,2,2-Tetrachloroethane	83	6.791	6.792	(0.903)	153352	18.5747	18.5747	
97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.916)	497798	19.9697	19.9697	
96 o-Chlorotoluene	91	6.867	6.868	(0.914)	503249	18.8257	18.8257	
98 1,2,3-Trichloropropane	110	6.906	6.906	(0.919)	45764	18.6494	18.6494	
99 trans-1,4-Dichloro-2-butene	53	6.933	6.933	(0.922)	36837	18.6849	18.6849(Q)	
101 p-Chlorotoluene	91	6.993	6.994	(0.930)	458759	18.8374	18.8374	
102 tert-Butylbenzene	134	7.140	7.141	(0.950)	109523	19.4025	19.4025	
103 Pentachloroethane	117	7.162	7.163	(0.953)	82285	17.5102	17.5102(Q)	
104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.957)	484963	19.8974	19.8974	
105 sec-Butylbenzene	105	7.277	7.277	(0.968)	619162	19.8641	19.8641	
106 p-Isopropyltoluene	134	7.391	7.392	(0.983)	118884	20.0183	20.0183	
107 1,3-Dichlorobenzene	146	7.462	7.463	(0.993)	228695	19.5897	19.5897	
* 108 1,4-Dichlorobenzene-d4	152	7.517	7.523	(1.000)	280924	30.0000		
109 1,4-Dichlorobenzene	146	7.533	7.534	(1.002)	232105	19.8014	19.8014	
111 n-Butylbenzene	134	7.735	7.736	(1.029)	98328	18.8019	18.8019(Q)	
110 Benzyl Chloride	126	7.729	7.736	(1.028)	17766	12.0019	12.0019(QR)	
112 Hexachloroethane	117	7.849	7.850	(1.044)	59522	16.4021	16.4021	
113 1,2-Dichlorobenzene	146	7.877	7.877	(1.048)	203667	19.4038	19.4038	
114 1,2-Dibromo-3-chloropropane	75	8.537	8.542	(1.136)	15260	17.9648	17.9648	
115 Nitrobenzene	77	9.028	9.029	(1.201)	6299	286.050	286.050(R)	
116 Hexachlorobutadiene	225	9.088	9.089	(1.209)	40500	20.7131	20.7131	
117 1,2,4-Trichlorobenzene	180	9.115	9.116	(1.213)	81087	18.4251	18.4251	
118 Naphthalene	128	9.394	9.394	(1.250)	128162	16.3213	16.3213	
119 1,2,3-Trichlorobenzene	180	9.546	9.547	(1.270)	53851	18.4598	18.4598	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 316102464.D Page 4
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i
Lab File ID: 316102464.D
Lab Smp Id: 2428716
Analysis Type: VOA
Quant Type: ISTD
Operator: CJG
Calibration Date: 25-OCT-2016
Calibration Time: 00:52
Client Smp ID: LCS for HBN 174
Level: LOW
Sample Type: WATER
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info: ZZ VOMS 41243 D8260W

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	1066160	5.23
83 Chlorobenzene-d5	432864	216432	865728	459017	6.04
108 1,4-Dichlorobenze	273837	136919	547674	280924	2.59

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	-0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	-0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102464.D Page 5
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

RECOVERY REPORT

Client Name: Client SDG: 3161024A.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 2428716 Client Smp ID: LCS for HBN 174041
Level: LOW Operator: CJG
Data Type: MS DATA SampleType: LCS
SpikeList File: WDODLCSICAL.spk Quant Type: ISTD
Sublist File: DODall.sub
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info: ZZ VOMS 41243 D8260W

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Dichlorodifluorome	20.0000	16.4722	82.36	80-120
2	Chloromethane	20.0000	18.1857	90.93	80-120
3	Vinyl Chloride	20.0000	18.7796	93.90	80-120
4	Bromomethane	20.0000	16.5690	82.84	80-120
5	Chloroethane	20.0000	20.7272	103.64	80-120
6	Pentane	20.0000	24.2068	121.03*	80-120
7	Trichlorofluoromet	20.0000	20.3482	101.74	80-120
8	Dichlorofluorometh	20.0000	19.0282	95.14	80-120
9	Ethyl Ether	20.0000	18.4606	92.30	80-120
10	1,1-Dichloroethene	20.0000	18.3179	91.59	80-120
11	Freon 113	20.0000	19.5274	97.64	80-120
12	Carbon Disulfide	20.0000	16.0581	80.29	80-120
13	Iodomethane	20.0000	11.4797	57.40*	80-120
14	Acrolein	150.000	146.427	97.62	80-120
15	Isopropyl Alcohol	100.000	116.280	116.28	80-120
16	3-Chloro-1-propene	20.0000	19.2624	96.31	80-120
17	Methylene Chloride	20.0000	19.4470	97.23	80-120
18	Acetone	100.000	96.5141	96.51	80-120
19	Methyl acetate	20.0000	19.3839	96.92	80-120
20	trans-1,2-Dichloro	20.0000	18.6329	93.16	80-120
21	Hexane	20.0000	19.2294	96.15	80-120
22	Methyl t-Butyl Eth	20.0000	17.9253	89.63	80-120
23	tert.- Butyl Alcoh	100.000	105.771	105.77	80-120
24	Acetonitrile	100.000	107.445	107.44	80-120
25	Diisopropyl ether	20.0000	18.8231	94.12	80-120
26	Chloroprene	20.0000	20.1785	100.89	80-120
27	1,1-Dichloroethane	20.0000	18.5318	92.66	80-120
28	Acrylonitrile	100.000	92.5228	92.52	80-120
29	Ethyl tert-butyl e	20.0000	18.5667	92.83	80-120
30	n-Propanol	200.000	203.656	101.83	80-120
31	Vinyl acetate	20.0000	16.3116	81.56	80-120
32	cis-1,2-Dichloroet	20.0000	18.1745	90.87	80-120
33	2,2-Dichloropropan	20.0000	16.1713	80.86	80-120
34	Bromochloromethane	20.0000	18.5457	92.73	80-120
35	Cyclohexane	20.0000	19.3069	96.53	80-120
36	Chloroform	20.0000	19.4891	97.45	80-120
37	Ethyl acetate	20.0000	19.7207	98.60	80-120
38	Methyl acrylate	20.0000	18.6211	93.11	80-120
39	Carbon Tetrachlori	20.0000	18.7837	93.92	80-120
40	Tetrahydrofuran	100.000	92.0853	92.09	80-120

Data File: 316102464.D Page 6
Report Date: 25-Oct-2016 10:11

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
42	1,1,1-Trichloroeth	20.0000	18.9740	94.87	80-120
43	2-Butanone	100.000	95.2665	95.27	80-120
44	1,1-Dichloropropen	20.0000	18.9055	94.53	80-120
45	1-Chlorobutane	20.0000	20.7033	103.52	80-120
46	Heptane	20.0000	20.9633	104.82	80-120
47	Benzene	20.0000	18.2059	91.03	80-120
48	Propionitrile	100.000	96.1541	96.15	80-120
49	Methacrylonitrile	20.0000	18.3736	91.87	80-120
50	tert-amyl methyl E	20.0000	18.5894	92.95	80-120
52	1,2-Dichloroethane	20.0000	18.3573	91.79	80-120
53	tert-Amyl Alcohol	100.000	99.8941	99.89	80-120
54	Isobutyl alcohol	200.000	277.434	138.72*	80-120
56	Diisobutylene	20.0000	22.1128	110.56	80-120
57	Trichloroethene	20.0000	17.6881	88.44	80-120
58	Methyl cyclohexane	20.0000	18.8439	94.22	80-120
59	tert-Amyl Ethyleth	20.0000	18.6427	93.21	80-120
60	Dibromomethane	20.0000	17.7619	88.81	80-120
61	1,2-Dichloropropan	20.0000	18.9450	94.72	80-120
62	Bromodichlorometha	20.0000	18.5253	92.63	80-120
63	Methyl methacrylat	20.0000	18.7021	93.51	80-120
64	1,4-Dioxane	500.000	786.828	157.37*	80-120
65	2-Chloroethylvinyl	20.0000	17.8853	89.43	80-120
66	cis-1,3-Dichloropr	20.0000	17.9139	89.57	80-120
67	Octane	20.0000	20.2594	101.30	80-120
69	Toluene	20.0000	19.2033	96.02	80-120
70	Chloroacetonitrile	100.000	85.3655	85.37	80-120
71	2-Nitropropane	100.000	84.3970	84.40	80-120
72	1,1-Dichloro-2-pro	100.000	91.8616	91.86	80-120
73	4-Methyl-2-Pentano	100.000	100.790	100.79	80-120
74	Tetrachloroethene	20.0000	22.5487	112.74	80-120
75	trans-1,3-Dichloro	20.0000	19.2560	96.28	80-120
76	Ethyl methacrylate	20.0000	19.8433	99.22	80-120
77	1,1,2-Trichloroeth	20.0000	18.0028	90.01	80-120
78	Chlorodibromometha	20.0000	18.7188	93.59	80-120
79	1,3-Dichloropropan	20.0000	17.9384	89.69	80-120
80	1,2-Dibromoethane	20.0000	18.9954	94.98	80-120
81	2-Hexanone	100.000	101.710	101.71	80-120
82	1-Chlorohexane	20.0000	18.6517	93.26	80-120
84	Chlorobenzene	20.0000	17.6014	88.01	80-120
85	Ethylbenzene	20.0000	18.4977	92.49	80-120
86	1,1,1,2-Tetrachlor	20.0000	19.5070	97.53	80-120
87	mp-Xylene	40.0000	37.2463	93.12	80-120
88	o-Xylene	20.0000	19.1204	95.60	80-120
89	Styrene	20.0000	19.6966	98.48	80-120
90	Bromoform	20.0000	17.4106	87.05	80-120
91	Isopropylbenzene	20.0000	19.4952	97.48	80-120
93	Bromobenzene	20.0000	18.3826	91.91	80-120
94	n-Propylbenzene	20.0000	19.6143	98.07	80-120
95	1,1,2,2-Tetrachlor	20.0000	18.5747	92.87	80-120
96	o-Chlorotoluene	20.0000	18.8257	94.13	80-120
97	1,3,5-Trimethylben	20.0000	19.9697	99.85	80-120
98	1,2,3-Trichloropro	20.0000	18.6494	93.25	80-120
99	trans-1,4-Dichloro	20.0000	18.6849	93.42	80-120
M 100	1,2-Dichloroethene	40.0000	36.8074	92.02	80-120

Data File: 316102464.D Page 7
Report Date: 25-Oct-2016 10:11

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	101 p-Chlorotoluene	20.0000	18.8374	94.19	80-120
	102 tert-Butylbenzene	20.0000	19.4025	97.01	80-120
	103 Pentachloroethane	20.0000	17.5102	87.55	80-120
	104 1,2,4-Trimethylben	20.0000	19.8974	99.49	80-120
	105 sec-Butylbenzene	20.0000	19.8641	99.32	80-120
	106 p-Isopropyltoluene	20.0000	20.0183	100.09	80-120
	107 1,3-Dichlorobenzen	20.0000	19.5897	97.95	80-120
	109 1,4-Dichlorobenzen	20.0000	19.8014	99.01	80-120
	110 Benzyl Chloride	20.0000	12.0019	60.01*	80-120
	111 n-Butylbenzene	20.0000	18.8019	94.01	80-120
	112 Hexachloroethane	20.0000	16.4021	82.01	80-120
	113 1,2-Dichlorobenzen	20.0000	19.4038	97.02	80-120
	114 1,2-Dibromo-3-chlo	20.0000	17.9648	89.82	80-120
	115 Nitrobenzene	200.000	286.050	143.03*	80-120
	116 Hexachlorobutadien	20.0000	20.7131	103.57	80-120
	117 1,2,4-Trichloroben	20.0000	18.4251	92.13	80-120
	118 Naphthalene	20.0000	16.3213	81.61	80-120
	119 1,2,3-Trichloroben	20.0000	18.4598	92.30	80-120
M	120 1,3-Dichloropropen	40.0000	37.1700	92.92	80-120
M	121 TOTAL XYLENES	60.0000	56.3668	93.94	80-120

	SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$	41 Dibromofluorometha	30.0000	25.1714	83.90	80-119
$	51 1,2-Dichloroethane	30.0000	28.6880	95.63	81-118
$	68 Toluene-d8	30.0000	27.1352	90.45	89-112
$	92 4-Bromofluorobenze	30.0000	28.1078	93.69	85-114

Data File: 316102464.D Page 8
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2428716
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41243 D8260W

Client SDG: 3161024A.b
Client Smp ID: LCS for HBN 174041
Sample Point:
Date Received: 24-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: CJG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	16.4722	
74-87-3	Chloromethane	18.1857	
75-01-4	Vinyl Chloride	18.7796	
74-83-9	Bromomethane	16.5690	
75-00-3	Chloroethane	20.7272	
109-66-0	Pentane	24.2068	
75-69-4	Trichlorofluoromethane	20.3482	
75-43-4	Dichlorofluoromethane	19.0282	
60-29-7	Ethyl Ether	18.4606	
75-35-4	1,1-Dichloroethene	18.3179	
75-15-0	Carbon Disulfide	16.0581	
76-13-1	Freon 113	19.5274	
74-88-4	Iodomethane	11.4797	
107-02-8	Acrolein	146.427	
107-05-1	3-Chloro-1-propene	19.2624	
67-63-0	Isopropyl Alcohol	116.280	
75-09-2	Methylene Chloride	19.4470	
67-64-1	Acetone	96.5141	
79-20-9	Methyl acetate	19.3839	
156-60-5	trans-1,2-Dichloroethene	18.6329	
110-54-3	Hexane	19.2294	
1634-04-4	Methyl t-Butyl Ether	17.9253	
75-65-0	tert.- Butyl Alcohol	105.771	
75-05-8	Acetonitrile	107.445	
108-20-3	Diisopropyl ether	18.8231	
126-99-8	Chloroprene	20.1785	
75-34-3	1,1-Dichloroethane	18.5318	
107-13-1	Acrylonitrile	92.5228	
71-23-8	n-Propanol	203.656	
637-92-3	Ethyl tert-butyl ether	18.5667	
108-05-4	Vinyl acetate	16.3116	
156-59-2	cis-1,2-Dichloroethene	18.1745	
594-20-7	2,2-Dichloropropane	16.1713	
540-59-0	1,2-Dichloroethene, Total	36.8074	
74-97-5	Bromochloromethane	18.5457	
110-82-7	Cyclohexane	19.3069	
67-66-3	Chloroform	19.4891	
141-78-6	Ethyl acetate	19.7207	
96-33-3	Methyl acrylate	18.6211	
56-23-5	Carbon Tetrachloride	18.7837	
109-99-9	Tetrahydrofuran	92.0853	
71-55-6	1,1,1-Trichloroethane	18.9740	

Data File: 316102464.D Page 9
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2428716
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41243 D8260W

Client SDG: 3161024A.b
Client Smp ID: LCS for HBN 174041
Sample Point:
Date Received: 24-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: CJG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
78-93-3	2-Butanone	95.2665	
563-58-6	1,1-Dichloropropene	18.9055	
109-69-3	1-Chlorobutane	20.7033	
142-82-5	Heptane	20.9633	
107-12-0	Propionitrile	96.1541	
71-43-2	Benzene	18.2059	
126-98-7	Methacrylonitrile	18.3736	
994-05-8	tert-amyl methyl Ether	18.5894	
78-83-1	Isobutyl alcohol	277.434	
107-06-2	1,2-Dichloroethane	18.3573	
75-85-4	tert-Amyl Alcohol	99.8941	
107-39-1	Diisobutylene	22.1128	
79-01-6	Trichloroethene	17.6881	
108-87-2	Methyl cyclohexane	18.8439	
919-94-8	tert-Amyl Ethylether	18.6427	
74-95-3	Dibromomethane	17.7619	
78-87-5	1,2-Dichloropropane	18.9450	
75-27-4	Bromodichloromethane	18.5253	
80-62-6	Methyl methacrylate	18.7021	
123-91-1	1,4-Dioxane	786.828	
110-75-8	2-Chloroethylvinyl ether	17.8853	
10061-01-5	cis-1,3-Dichloropropene	17.9139	
111-65-9	Octane	20.2594	
108-88-3	Toluene	19.2033	
107-14-2	Chloroacetonitrile	85.3655	
79-46-9	2-Nitropropane	84.3970	
513-88-2	1,1-Dichloro-2-propanone	91.8616	
108-10-1	4-Methyl-2-Pentanone(MIBK)	100.790	
10061-02-6	trans-1,3-Dichloropropene	19.2560	
127-18-4	Tetrachloroethene	22.5487	
97-63-2	Ethyl methacrylate	19.8433	
79-00-5	1,1,2-Trichloroethane	18.0028	
124-48-1	Chlorodibromomethane	18.7188	
142-28-9	1,3-Dichloropropane	17.9384	
106-93-4	1,2-Dibromoethane	18.9954	
591-78-6	2-Hexanone	101.710	
544-10-5	1-Chlorohexane	18.6517	
100-41-4	Ethylbenzene	18.4977	
108-90-7	Chlorobenzene	17.6014	
630-20-6	1,1,1,2-Tetrachloroethane	19.5070	
108383/106423	m-p-Xylene	37.2463	
542-75-6	1,3-Dichloropropene, Total	37.1700	

Data File: 316102464.D Page 10
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2428716
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41243 D8260W

Client SDG: 3161024A.b
Client Smp ID: LCS for HBN 174041
Sample Point:
Date Received: 24-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: CJG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
95-47-6	o-Xylene	19.1204	
100-42-5	Styrene	19.6966	
75-25-2	Bromoform	17.4106	
98-82-8	Isopropylbenzene	19.4952	
1330-20-7	TOTAL XYLENES	56.3668	
103-65-1	n-Propylbenzene	19.6143	
108-86-1	Bromobenzene	18.3826	
79-34-5	1,1,2,2-Tetrachloroethane	18.5747	
108-67-8	1,3,5-Trimethylbenzene	19.9697	
95-49-8	o-Chlorotoluene	18.8257	
96-18-4	1,2,3-Trichloropropane	18.6494	
110-57-6	trans-1,4-Dichloro-2-butene	18.6849	
106-43-4	p-Chlorotoluene	18.8374	
98-06-6	tert-Butylbenzene	19.4025	
76-01-7	Pentachloroethane	17.5102	
95-63-6	1,2,4-Trimethylbenzene	19.8974	
135-98-8	sec-Butylbenzene	19.8641	
99-87-6	p-Isopropyltoluene	20.0183	
541-73-1	1,3-Dichlorobenzene	19.5897	
106-46-7	1,4-Dichlorobenzene	19.8014	
104-51-8	n-Butylbenzene	18.8019	
100-44-7	Benzyl Chloride	12.0019	
67-72-1	Hexachloroethane	16.4021	
95-50-1	1,2-Dichlorobenzene	19.4038	
96-12-8	1,2-Dibromo-3-chloropropane	17.9648	
98-95-3	Nitrobenzene	286.050	
87-68-3	Hexachlorobutadiene	20.7131	
120-82-1	1,2,4-Trichlorobenzene	18.4251	
91-20-3	Naphthalene	16.3213	
87-61-6	1,2,3-Trichlorobenzene	18.4598	
1868-53-7	Dibromofluoromethane	25.1714	
17060-07-0	1,2-Dichloroethane-d4	28.6880	
2037-26-5	Toluene-d8	27.1352	
460-00-4	4-Bromofluorobenzene	28.1078	

Data File: 316102464.D Page 11
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TENTATIVELY IDENTIFIED COMPOUNDS

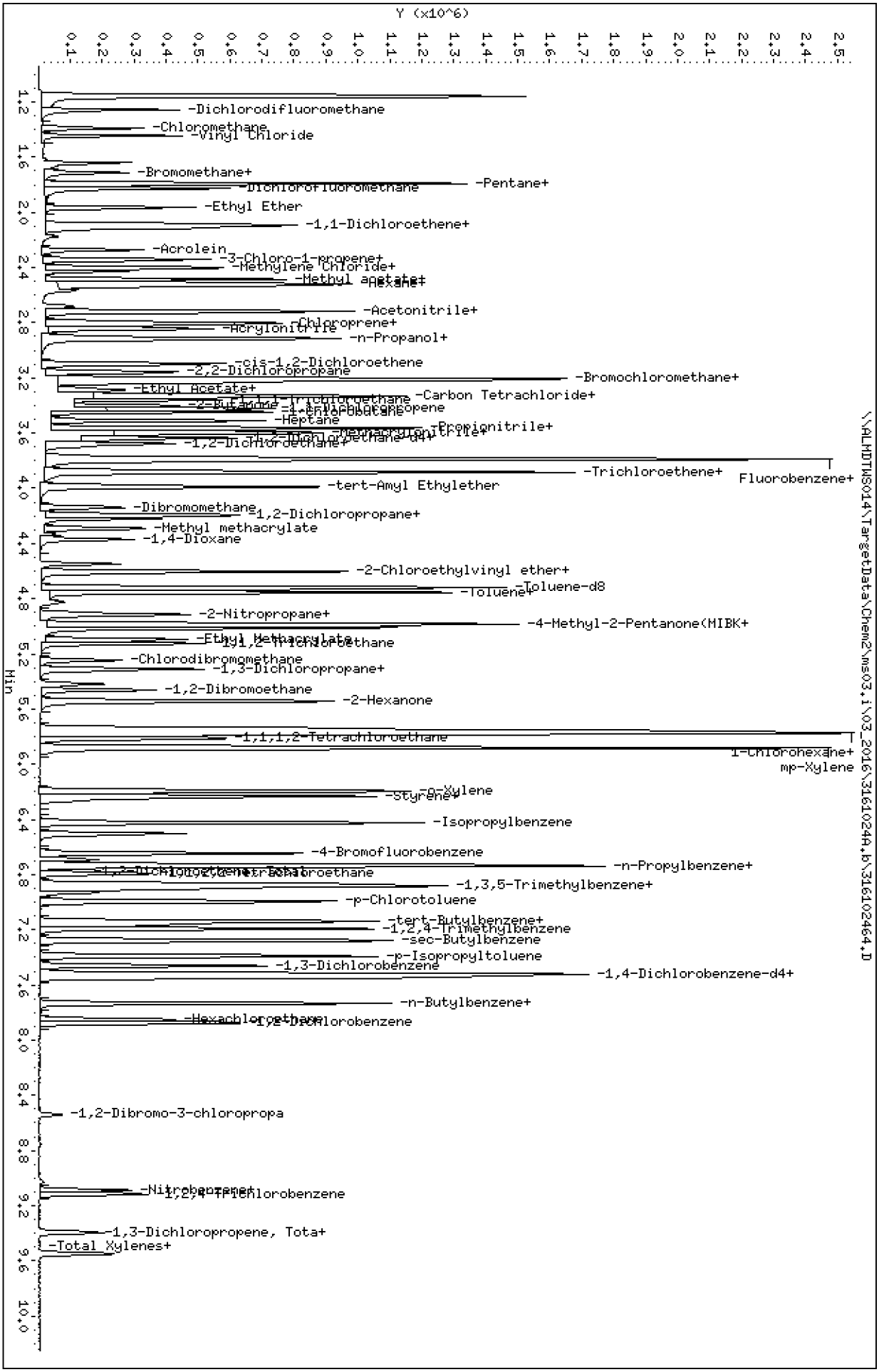
Client Name:
Lab Smp Id: 2428716
Operator : CJG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 25-OCT-2016 03:26

Client SDG: 3161024A.b
Client Smp ID: LCS for HBN 174041
Sample Date:
Sample Point:
Date Received:24-OCT-2016 00:00
Level: LOW

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	1.160	17.1388	_J__
2.	142-28-9	Propane, 1,3-dichloro-	5.313	3.33876	NJ__



Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024 64.D
Date : 25-OCT-2016 03:26
Client ID: LCS for HBN 174041
Sample Info: 242871;;1;3;;LCS;1;
Purge Volume: 5.0
Column phase: DB-VRX

\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024 64.D
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 13

Date : 25-OCT-2016 03:26

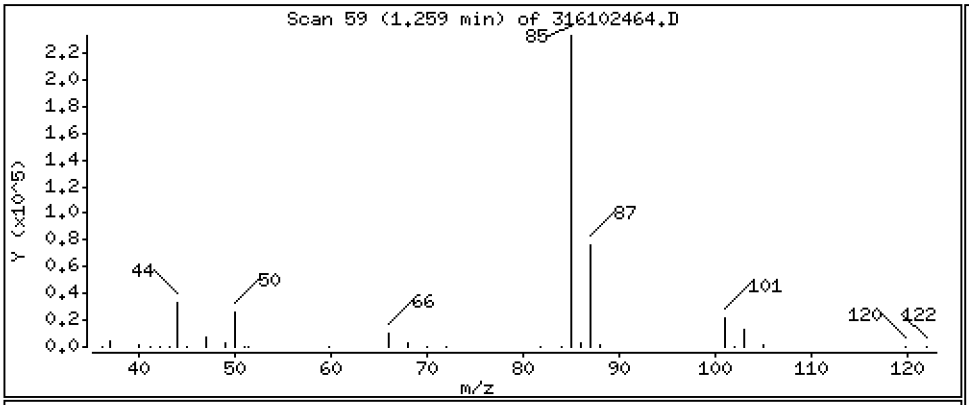
Client ID: LCS for HBN 174041 Instrument: ms03.i

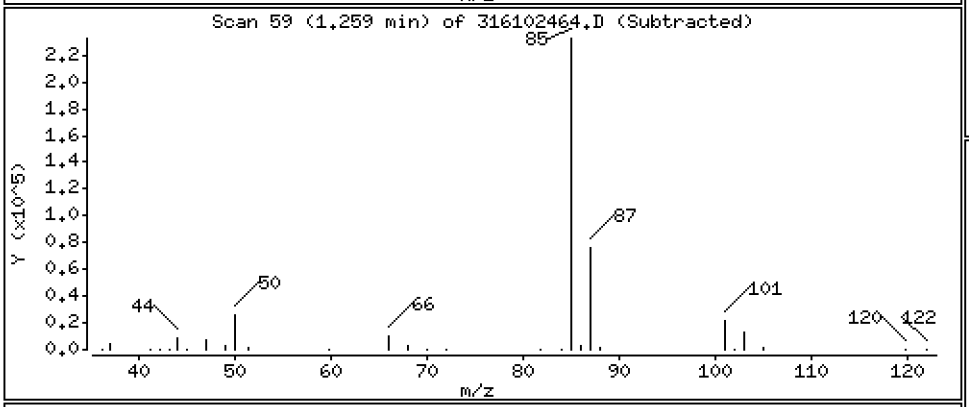
Sample Info: 2428716;;1;3;;LCS;1;

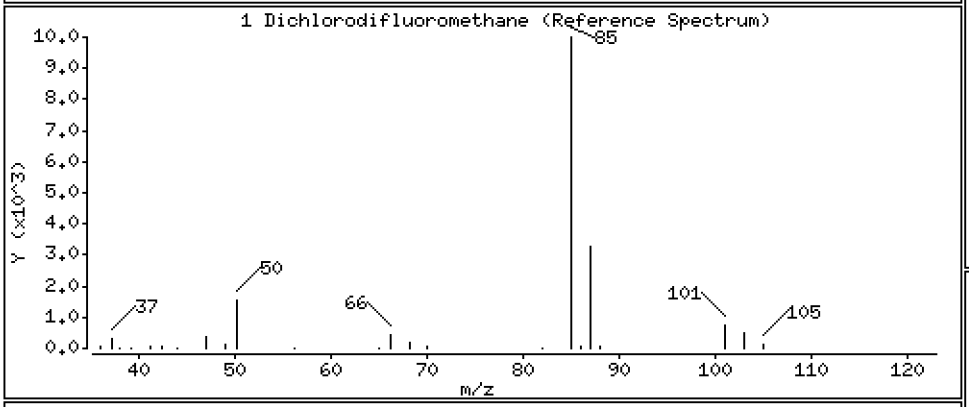
Purge Volume: 5.0 Operator: CJG

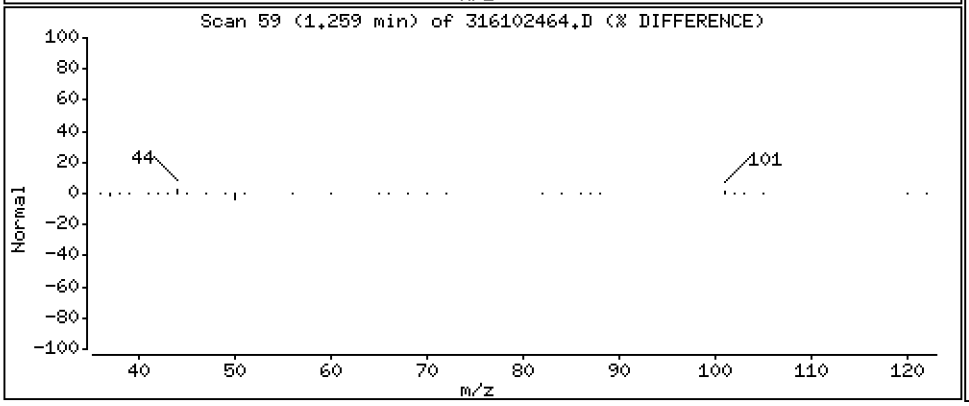
Column phase: DB-VRX Column diameter: 0.25

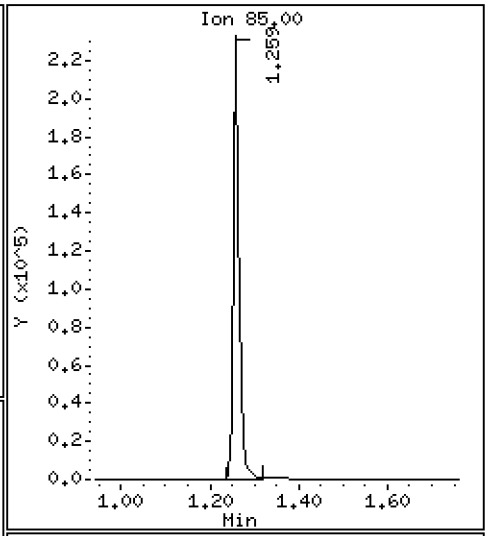
1 Dichlorodifluoromethane Concentration: 16.4722 ug/L

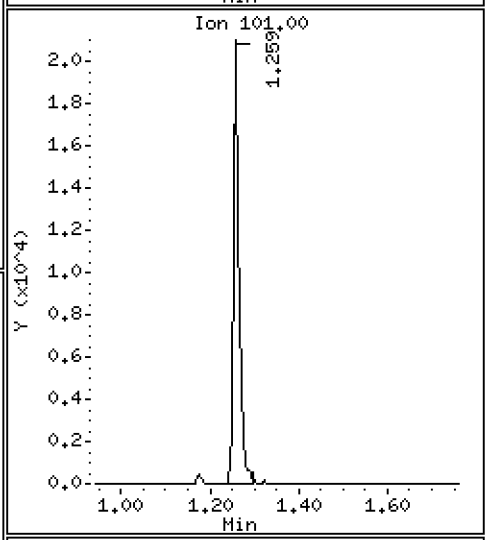


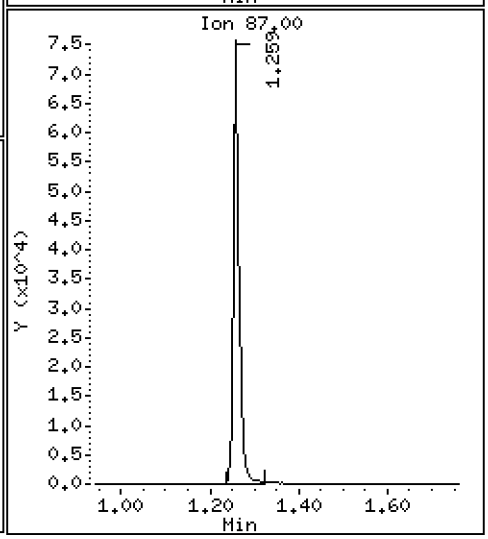












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 14

Date : 25-OCT-2016 03:26

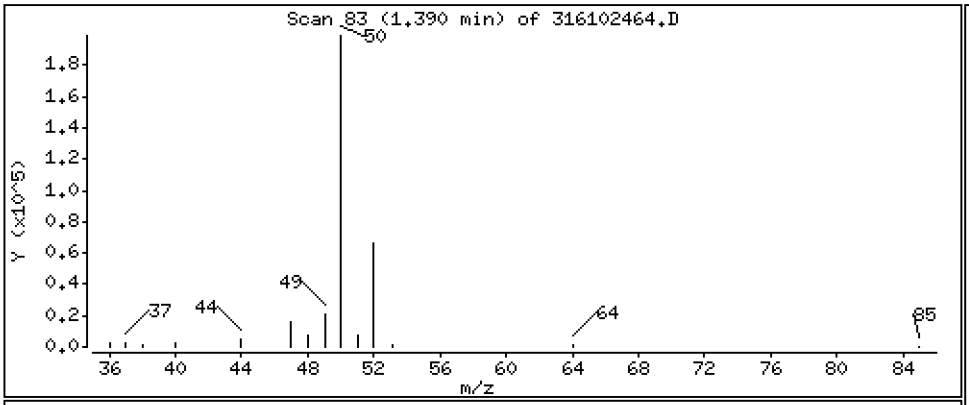
Client ID: LCS for HBN 174041 Instrument: ms03.i

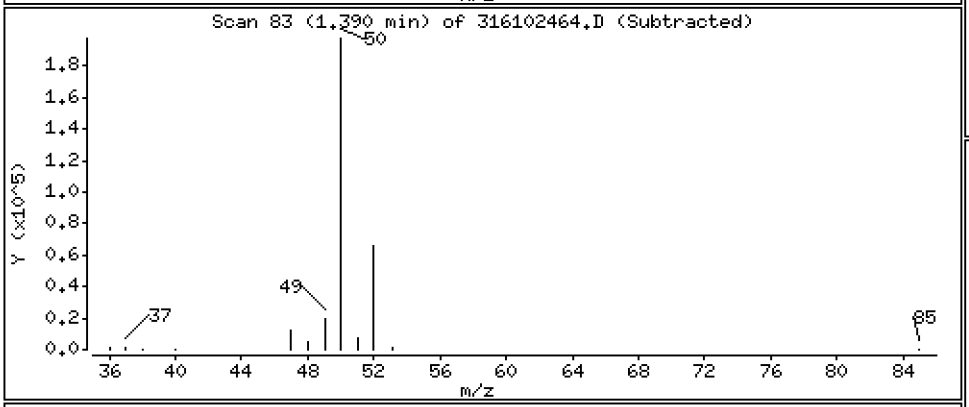
Sample Info: 2428716;;1;3;;LCS;1;

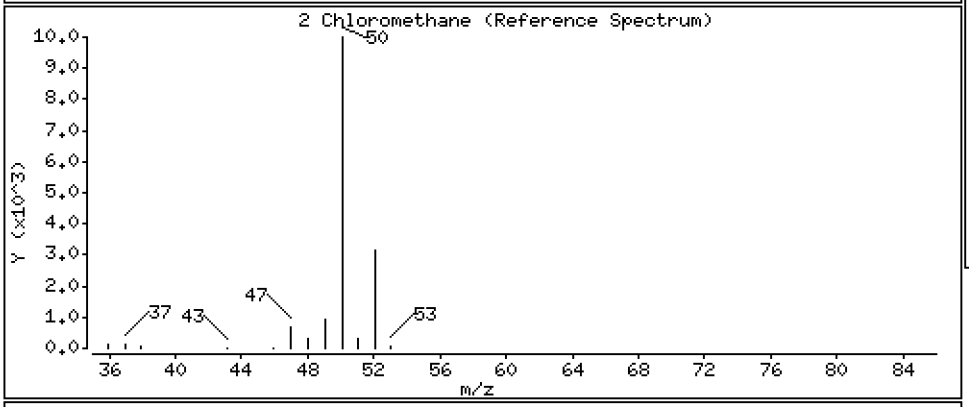
Purge Volume: 5.0 Operator: CJG

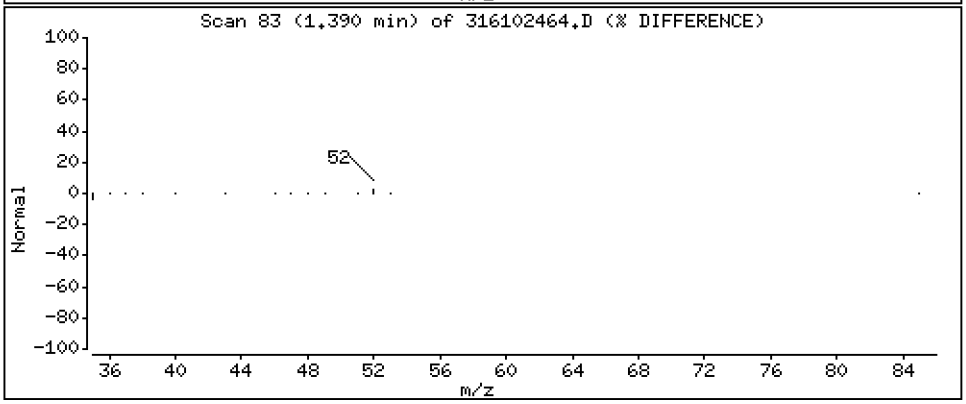
Column phase: DB-VRX Column diameter: 0.25

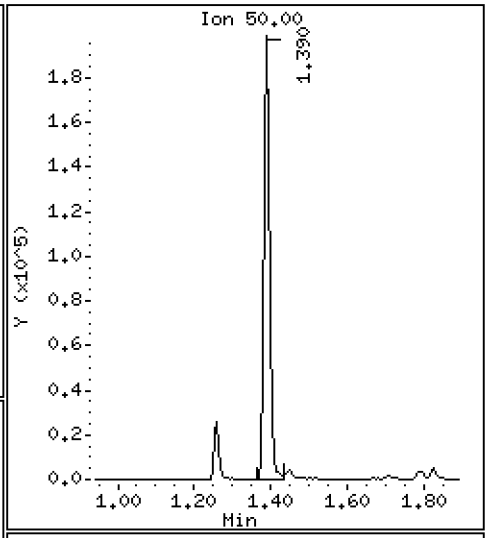
2 Chloromethane Concentration: 18.1857 ug/L

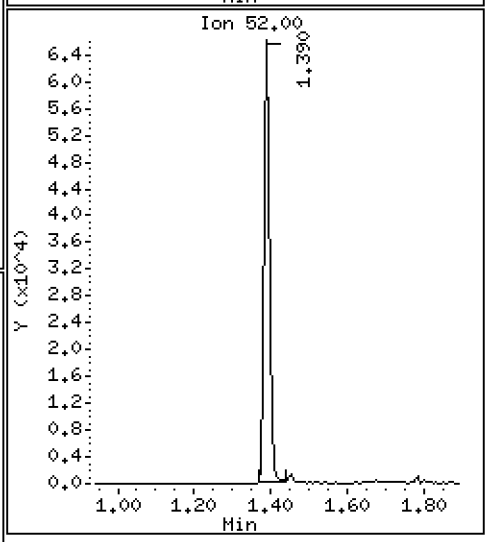












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 15

Date : 25-OCT-2016 03:26

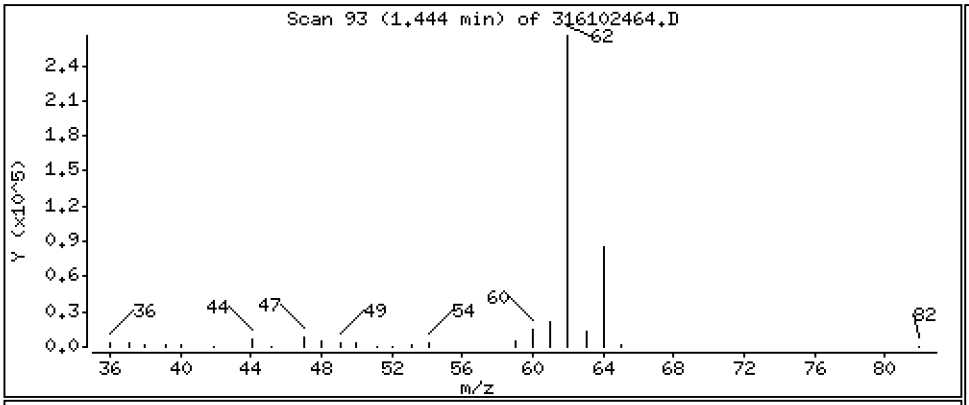
Client ID: LCS for HBN 174041 Instrument: ms03.i

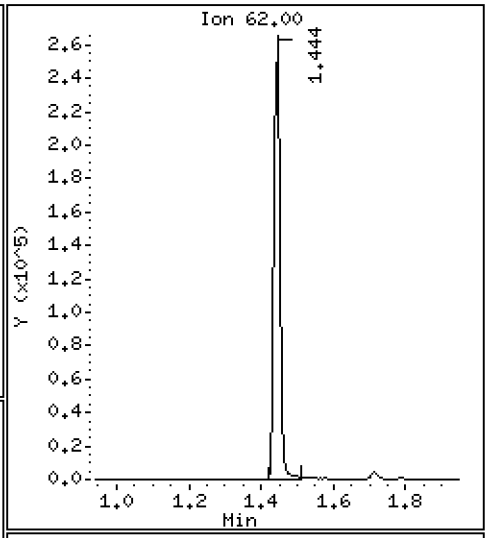
Sample Info: 2428716;;1;3;;LCS;1;

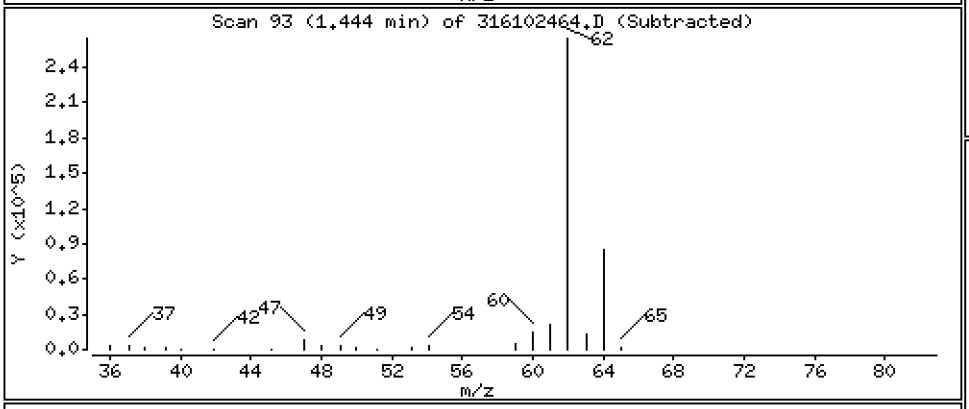
Purge Volume: 5.0 Operator: CJG

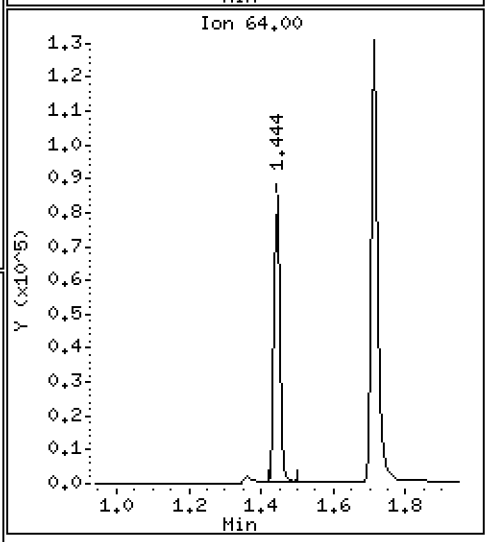
Column phase: DB-VRX Column diameter: 0.25

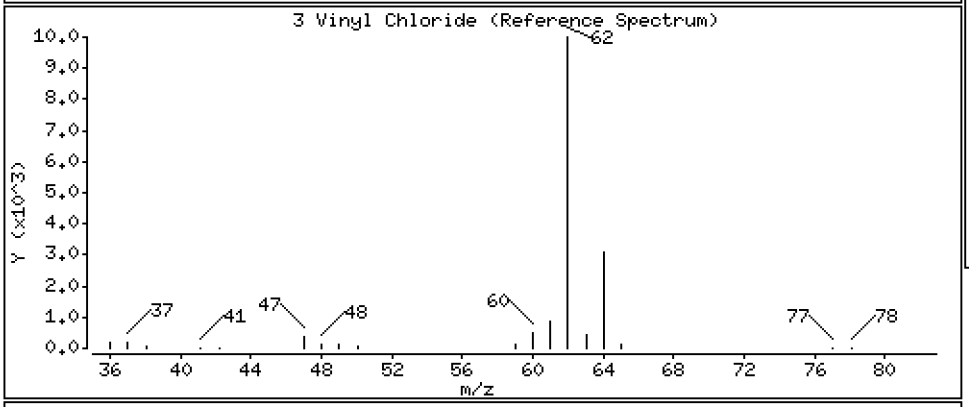
3 Vinyl Chloride Concentration: 18.7796 ug/L

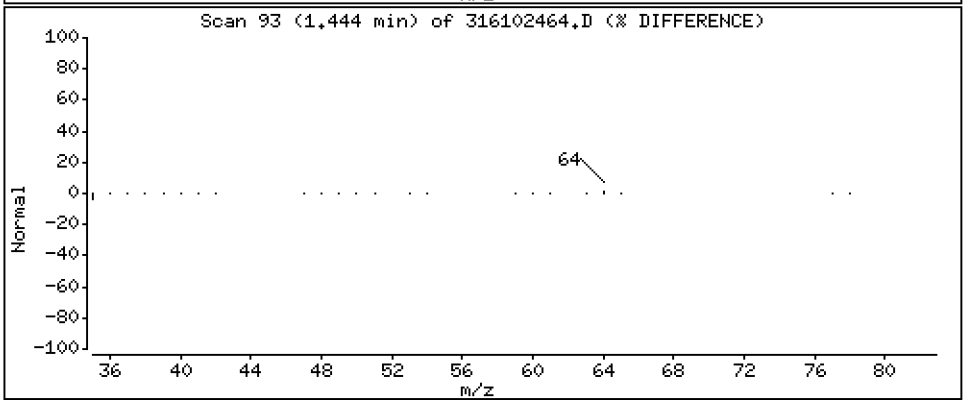












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 16

Date : 25-OCT-2016 03:26

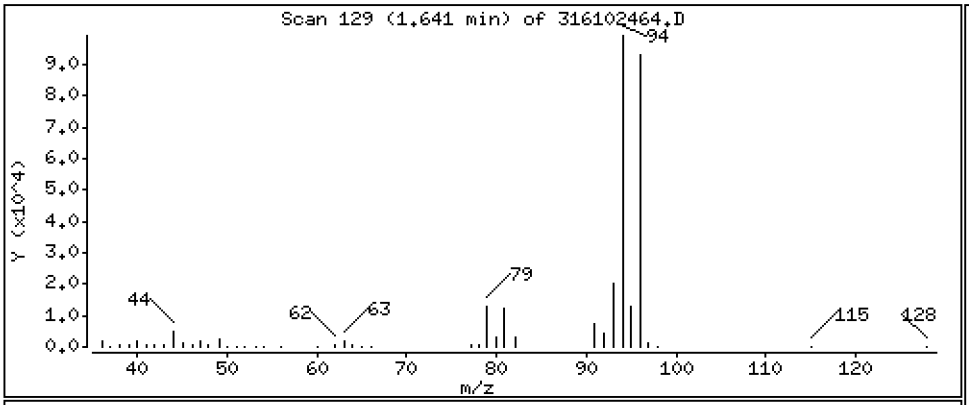
Client ID: LCS for HBN 174041 Instrument: ms03.i

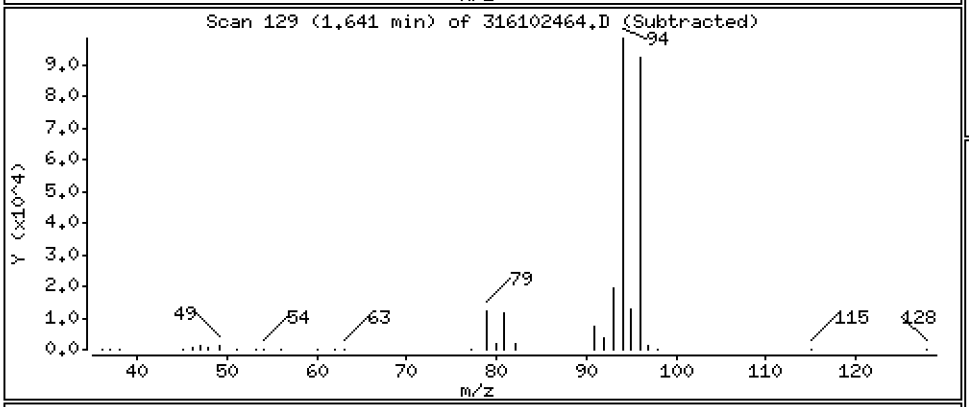
Sample Info: 2428716;;1;3;;LCS;1;

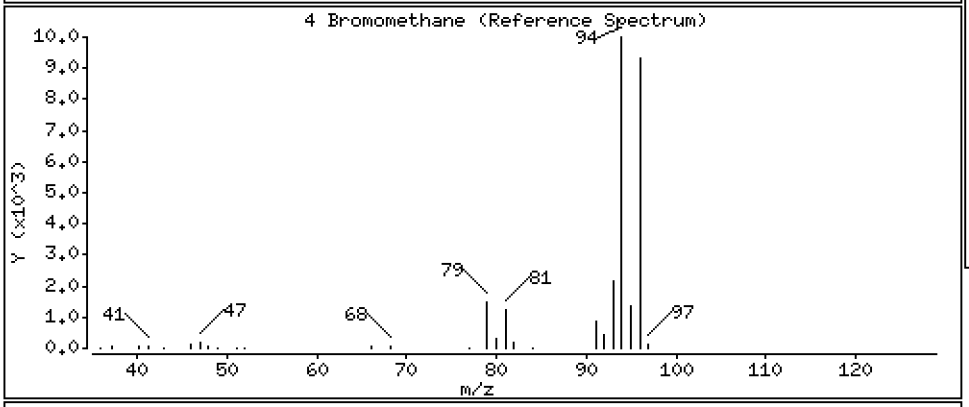
Purge Volume: 5.0 Operator: CJG

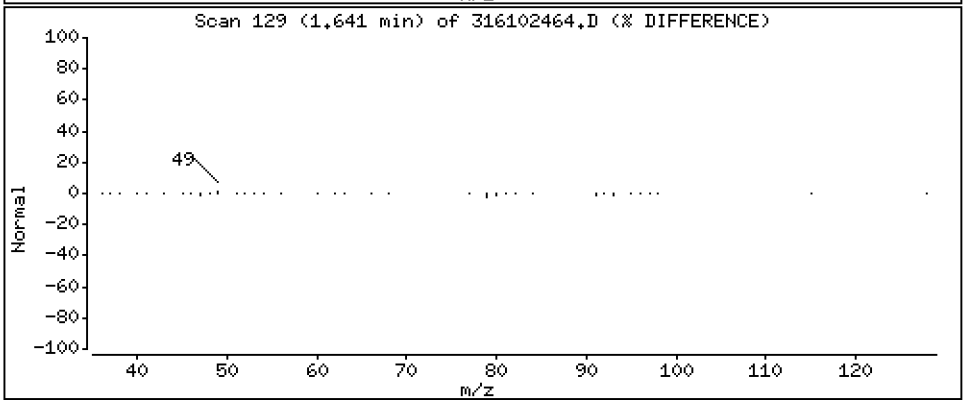
Column phase: DB-VRX Column diameter: 0.25

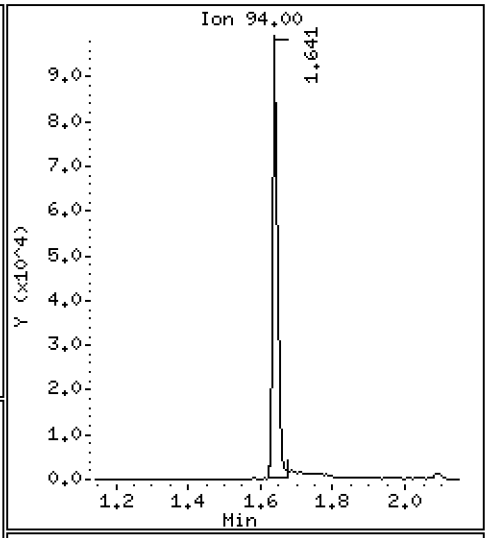
4 Bromomethane Concentration: 16.5690 ug/L

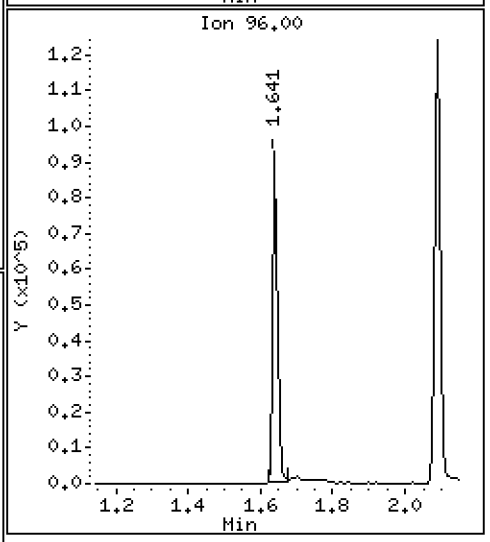












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 17

Date : 25-OCT-2016 03:26

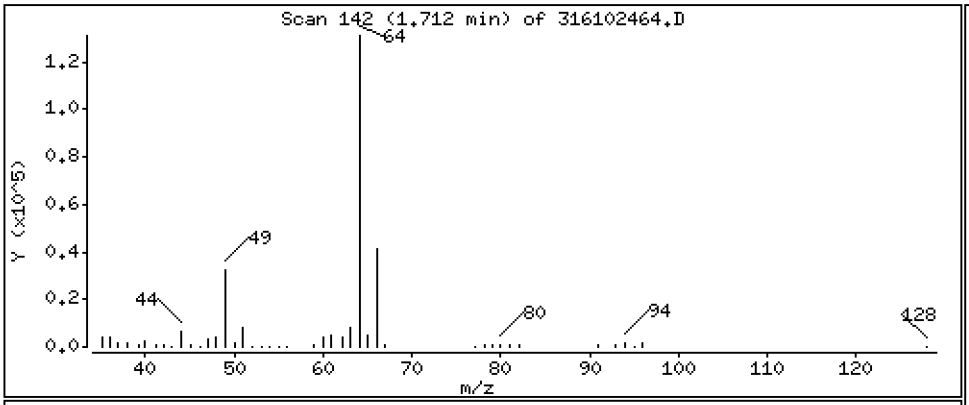
Client ID: LCS for HBN 174041 Instrument: ms03.i

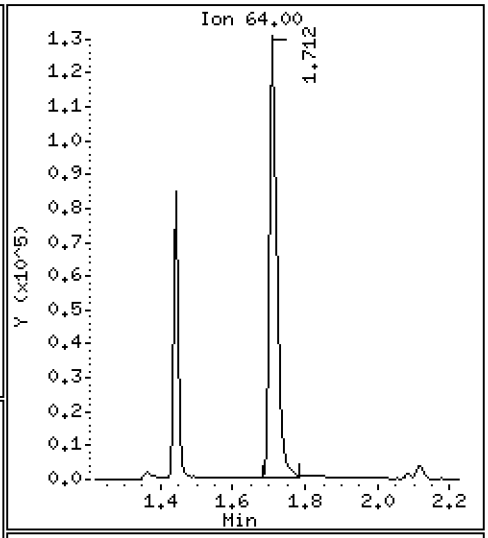
Sample Info: 2428716;;1;3;;LCS;1;

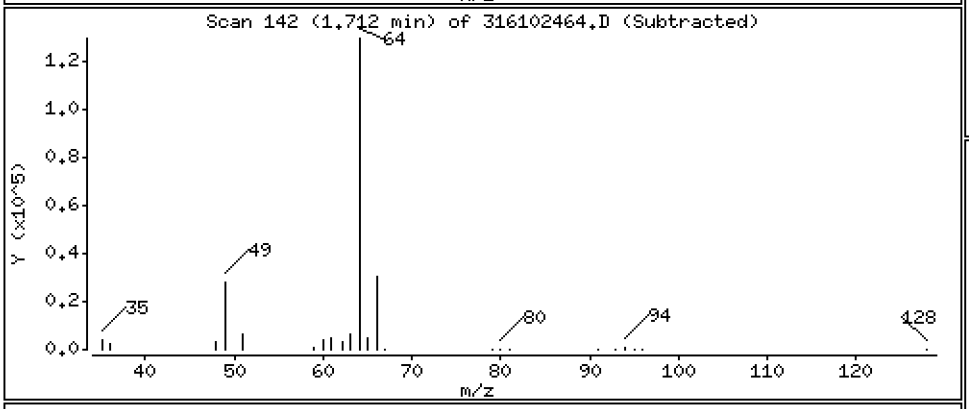
Purge Volume: 5.0 Operator: CJG

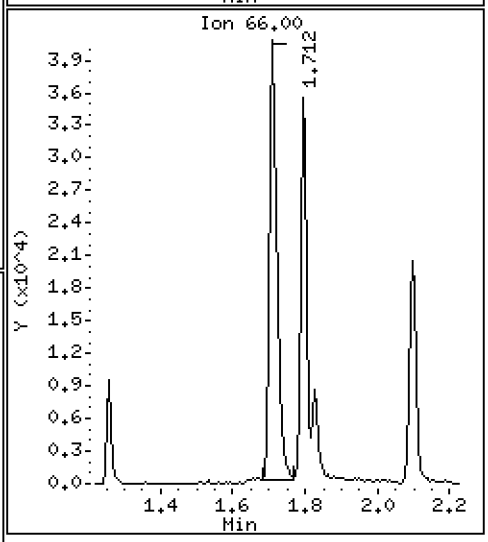
Column phase: DB-VRX Column diameter: 0.25

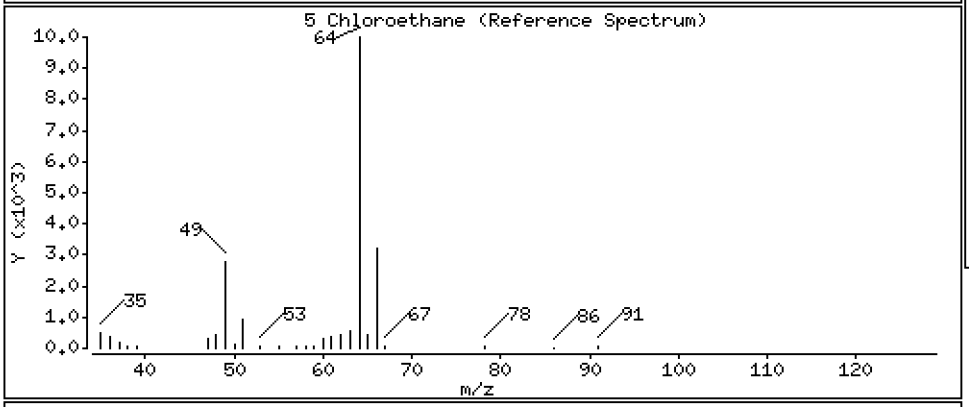
5 Chloroethane Concentration: 20.7272 ug/L

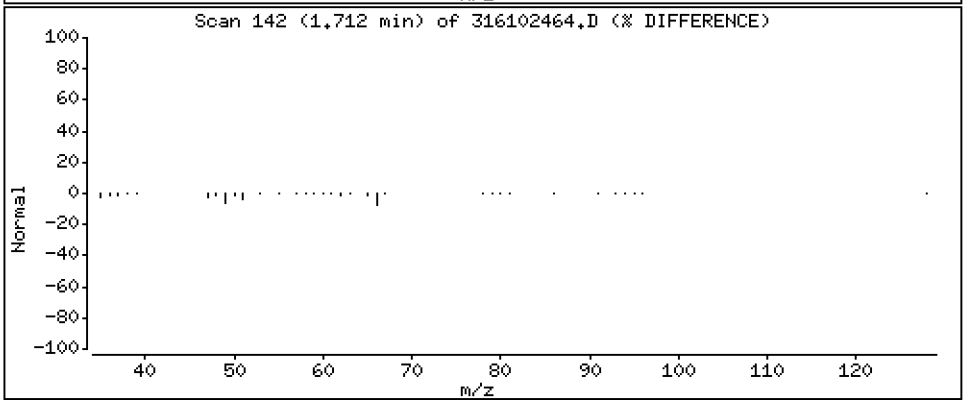












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 18

Date : 25-OCT-2016 03:26

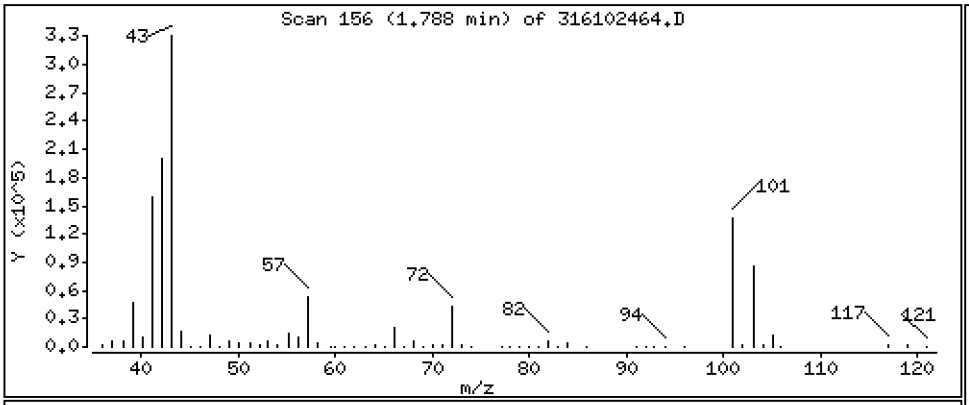
Client ID: LCS for HBN 174041 Instrument: ms03.i

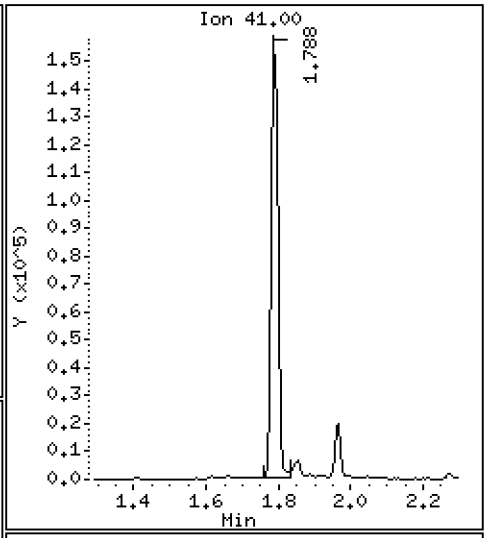
Sample Info: 2428716;;1;3;;LCS;1;

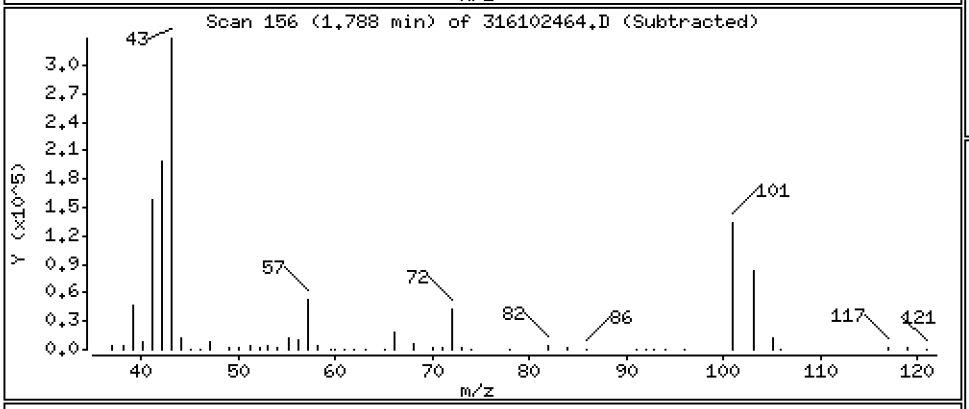
Purge Volume: 5.0 Operator: CJG

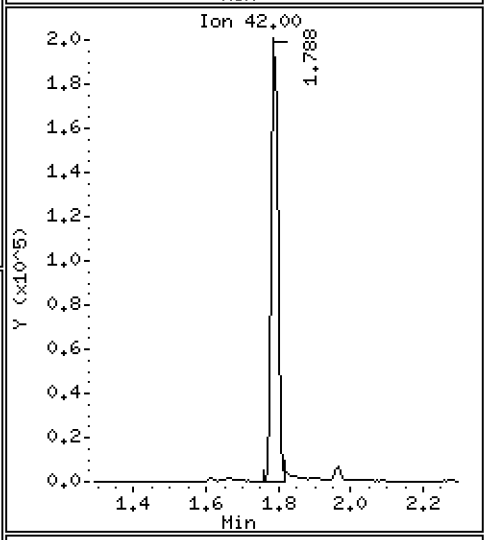
Column phase: DB-VRX Column diameter: 0.25

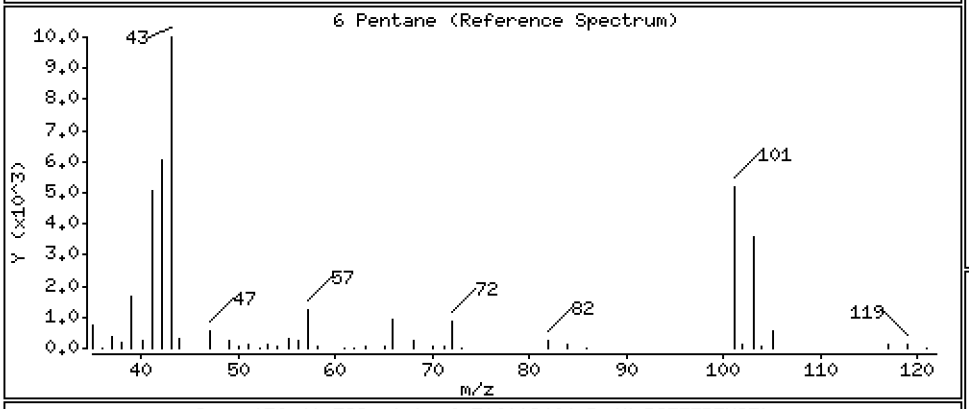
6 Pentane Concentration: 24.2068 ug/L

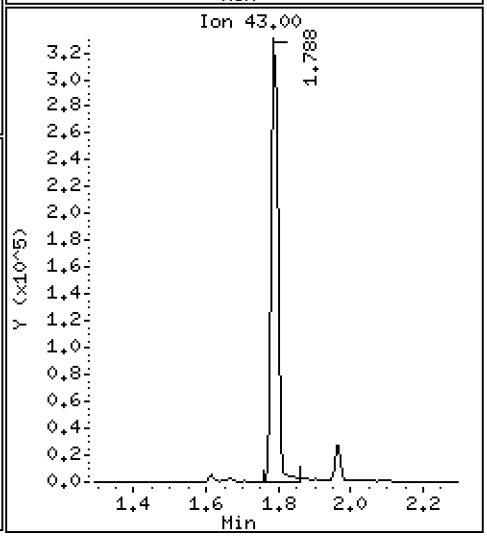


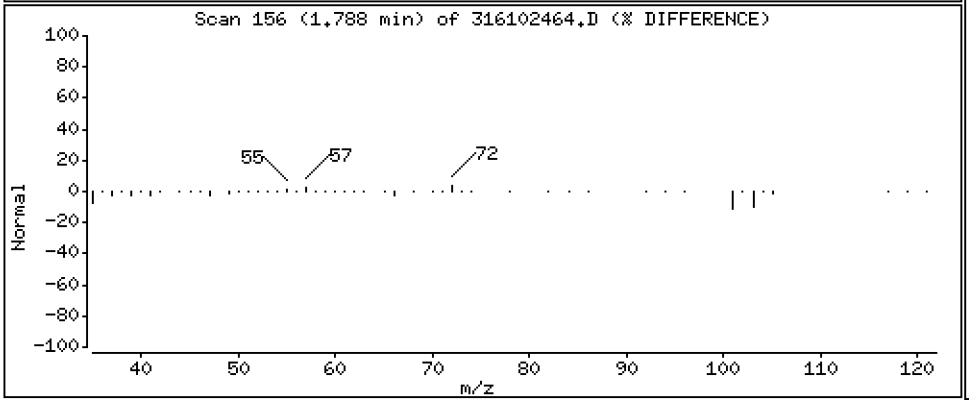












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 19

Date : 25-OCT-2016 03:26

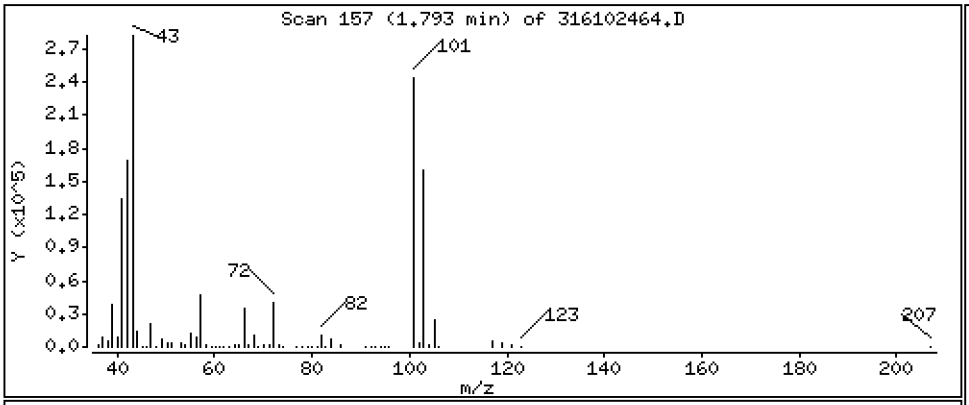
Client ID: LCS for HBN 174041 Instrument: ms03.i

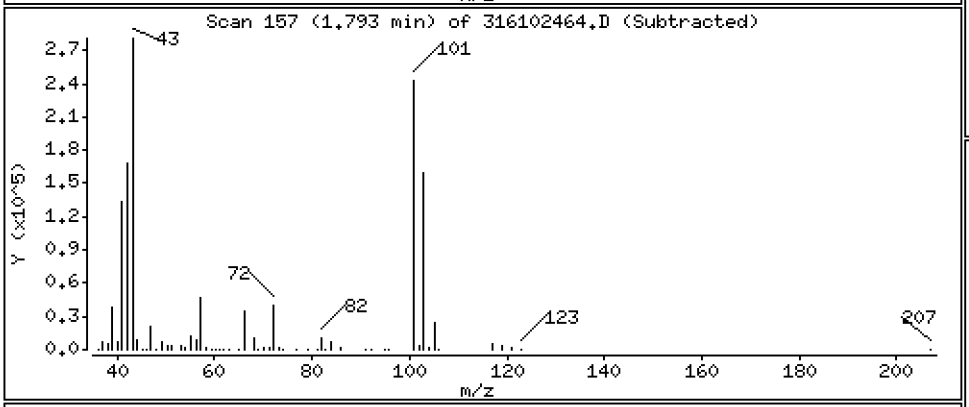
Sample Info: 2428716;;1;3;;LCS;1;

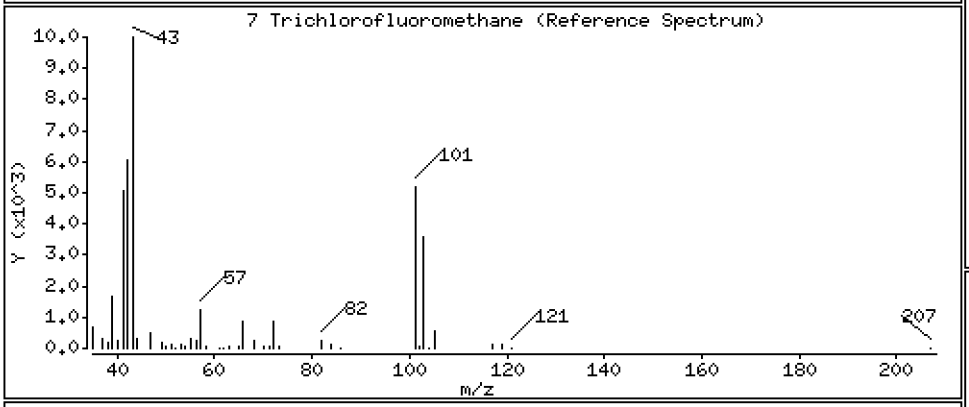
Purge Volume: 5.0 Operator: CJG

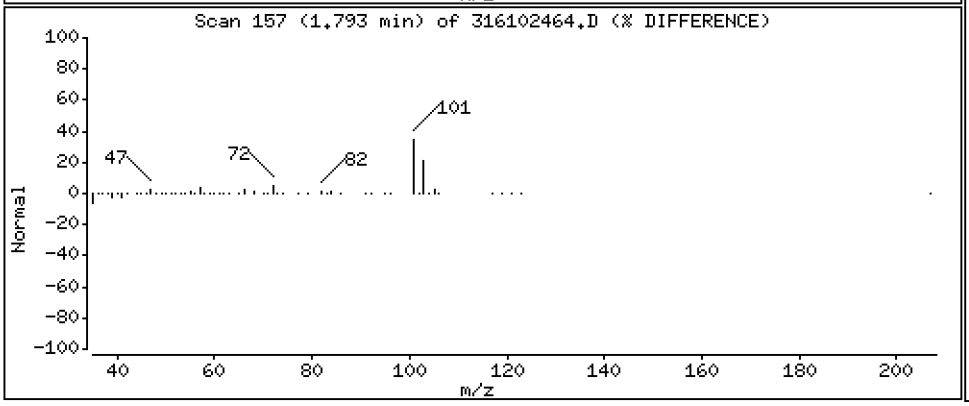
Column phase: DB-VRX Column diameter: 0.25

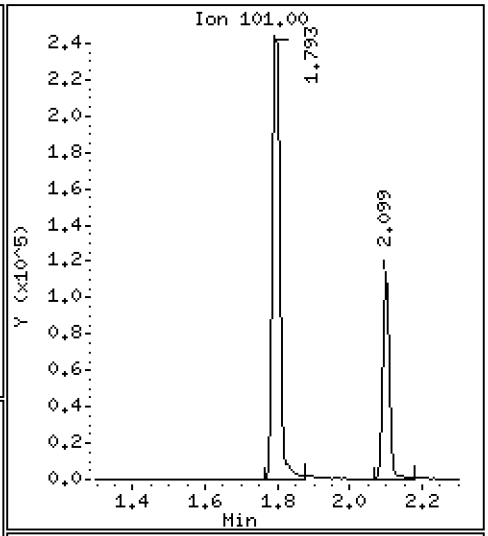
7 Trichlorofluoromethane Concentration: 20.3482 ug/L

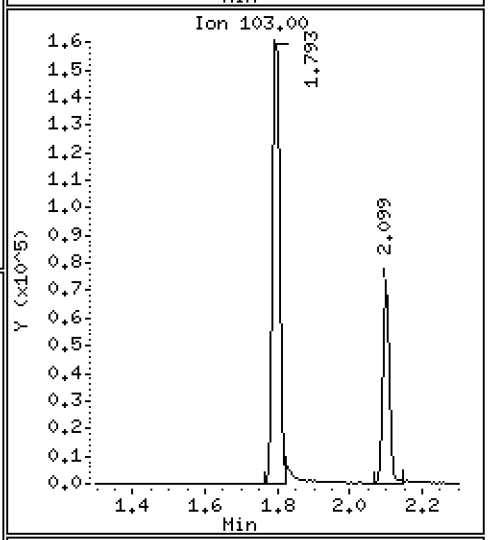


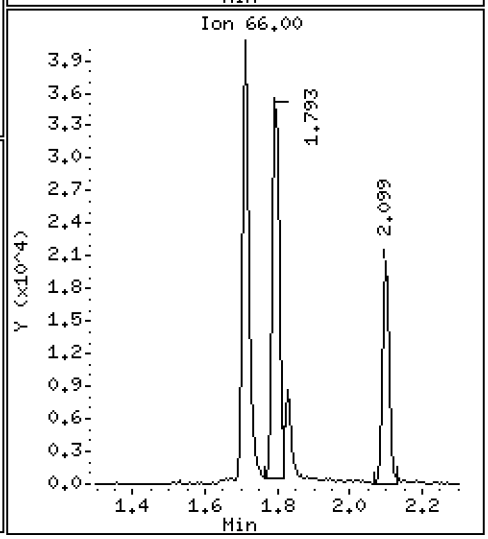












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 20

Date : 25-OCT-2016 03:26

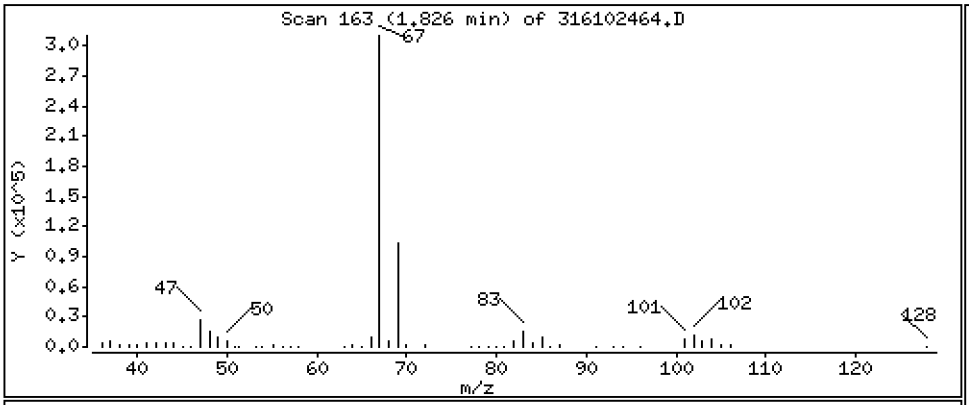
Client ID: LCS for HBN 174041 Instrument: ms03.i

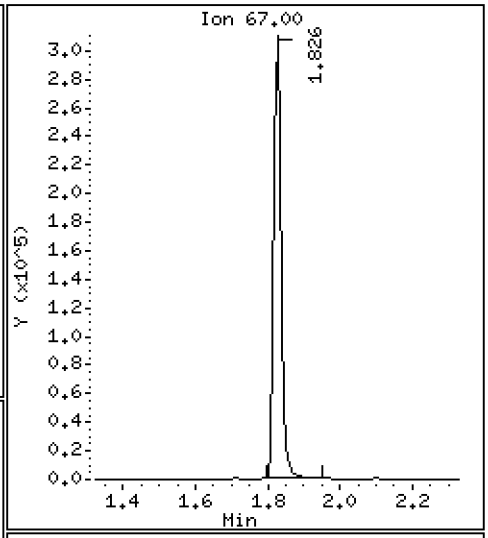
Sample Info: 2428716;;1;3;;LCS;1;

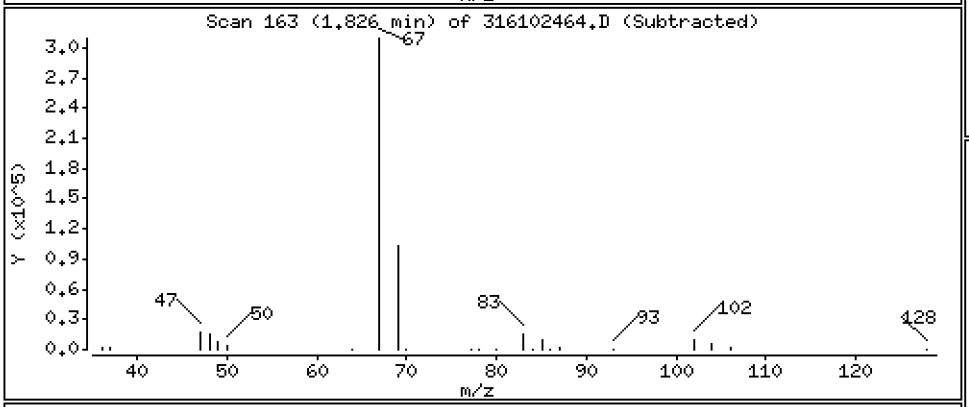
Purge Volume: 5.0 Operator: CJG

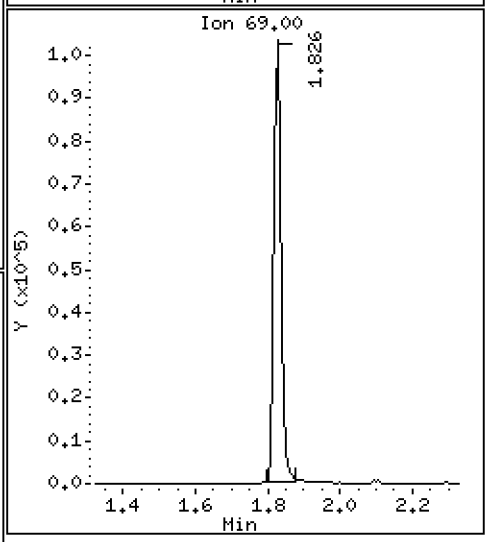
Column phase: DB-VRX Column diameter: 0.25

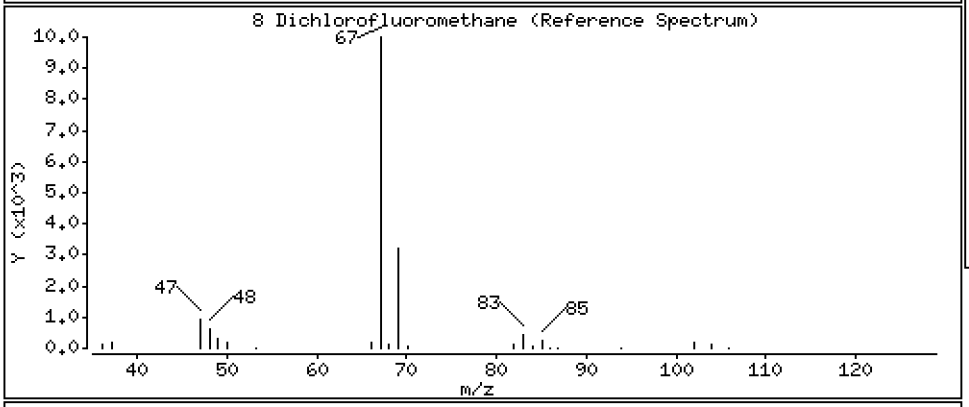
8 Dichlorofluoromethane Concentration: 19.0282 ug/L

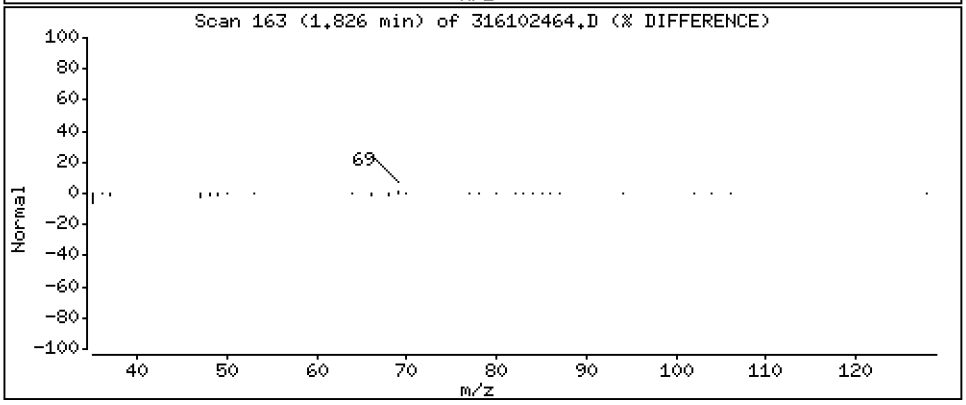












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 21

Date : 25-OCT-2016 03:26

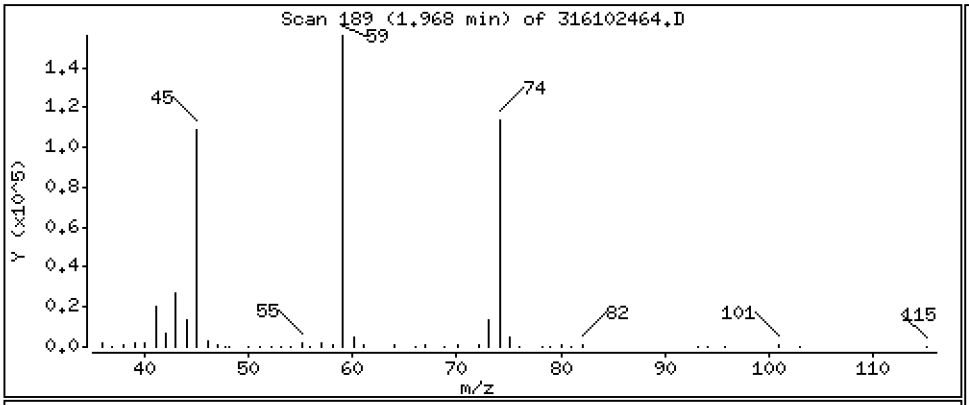
Client ID: LCS for HBN 174041 Instrument: ms03.i

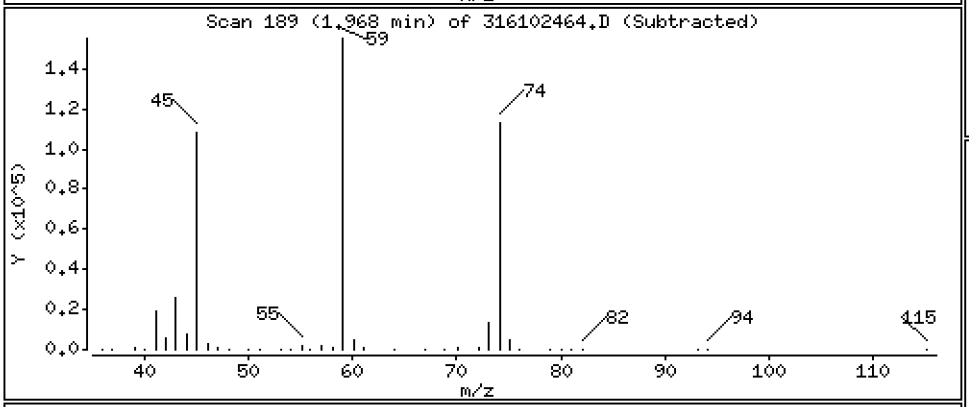
Sample Info: 2428716;;1;3;;LCS;1;

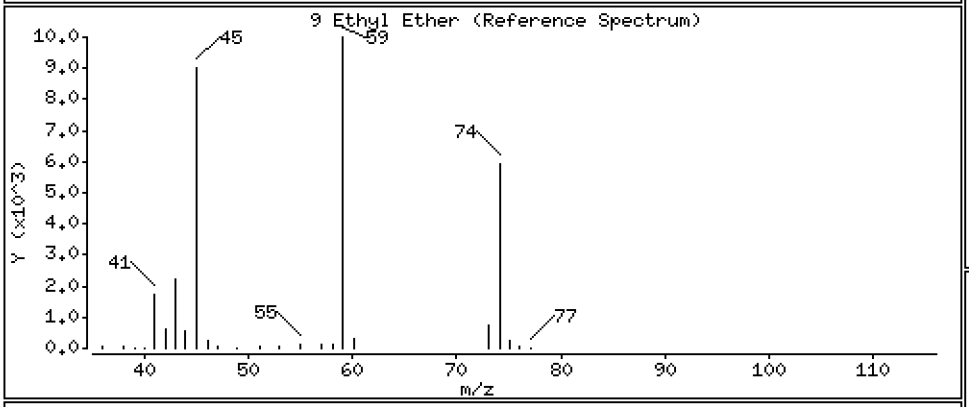
Purge Volume: 5.0 Operator: CJG

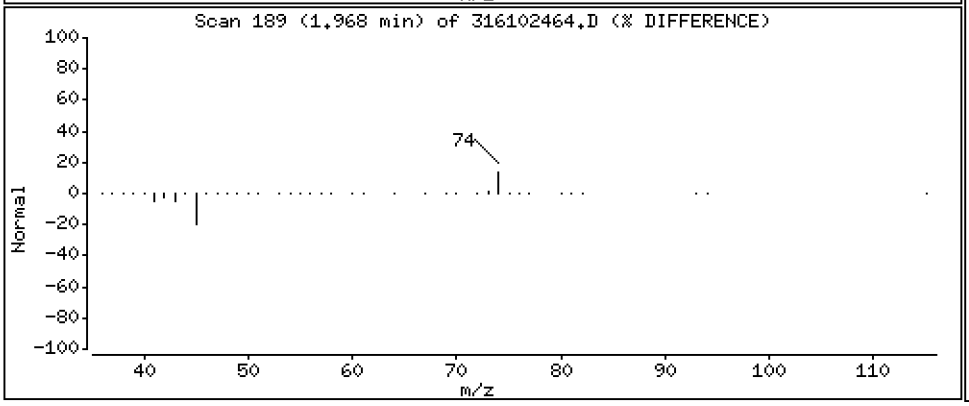
Column phase: DB-VRX Column diameter: 0.25

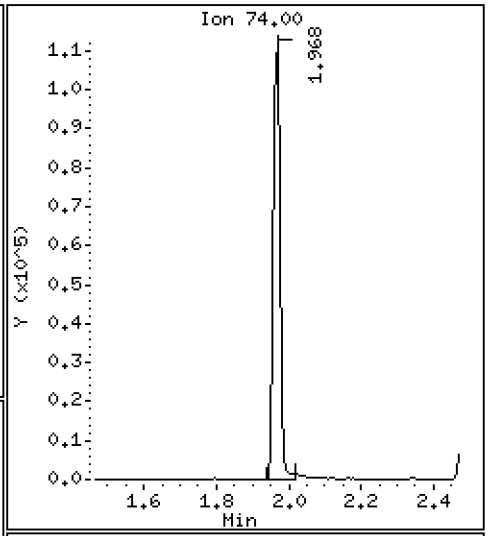
9 Ethyl Ether Concentration: 18.4606 ug/L

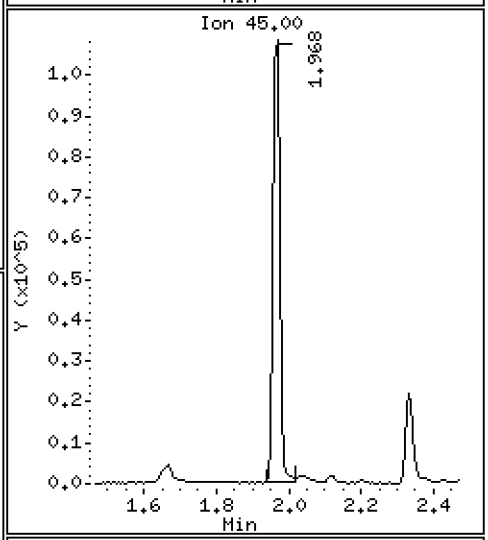


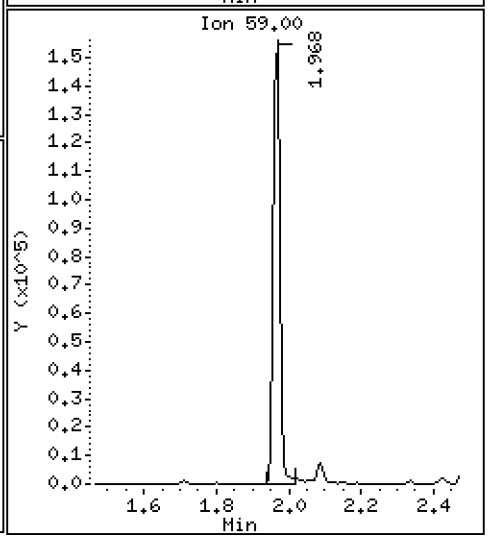












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 22

Date : 25-OCT-2016 03:26

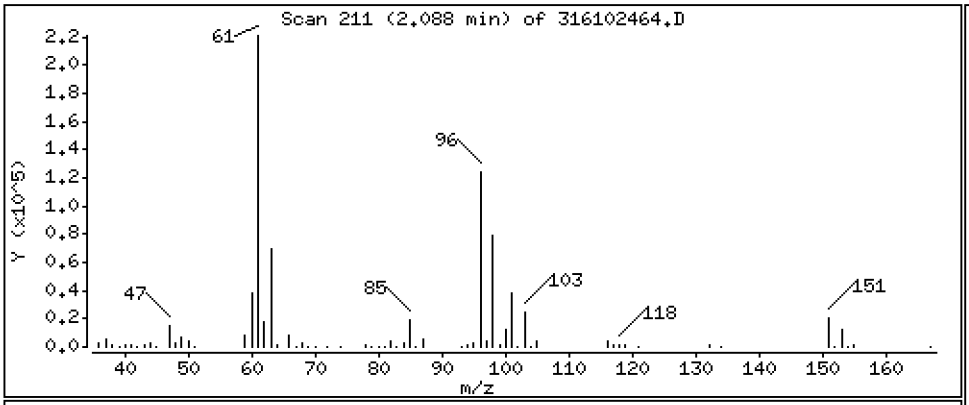
Client ID: LCS for HBN 174041 Instrument: ms03.i

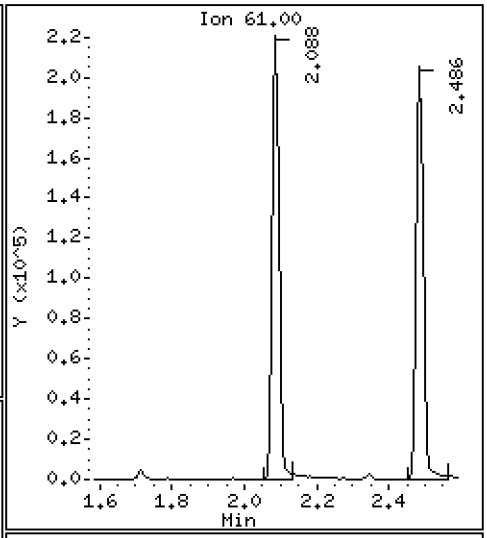
Sample Info: 2428716;;1;3;;LCS;1;

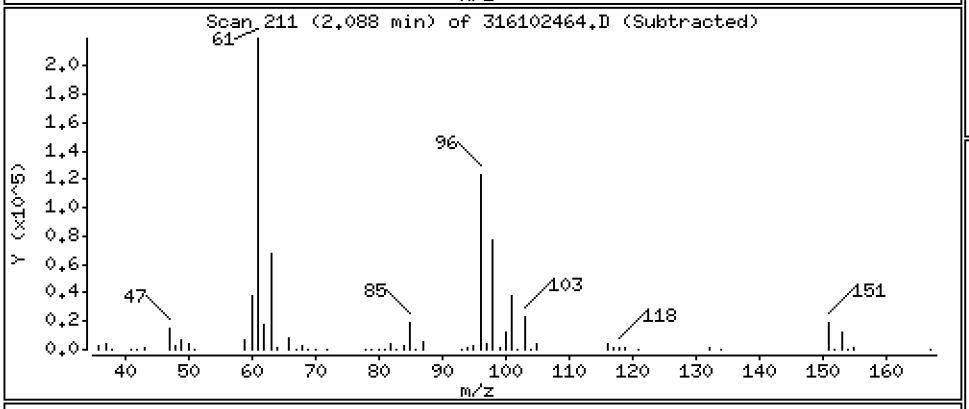
Purge Volume: 5.0 Operator: CJG

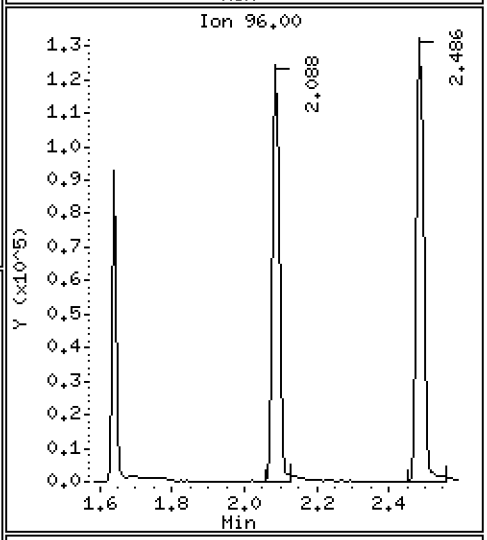
Column phase: DB-VRX Column diameter: 0.25

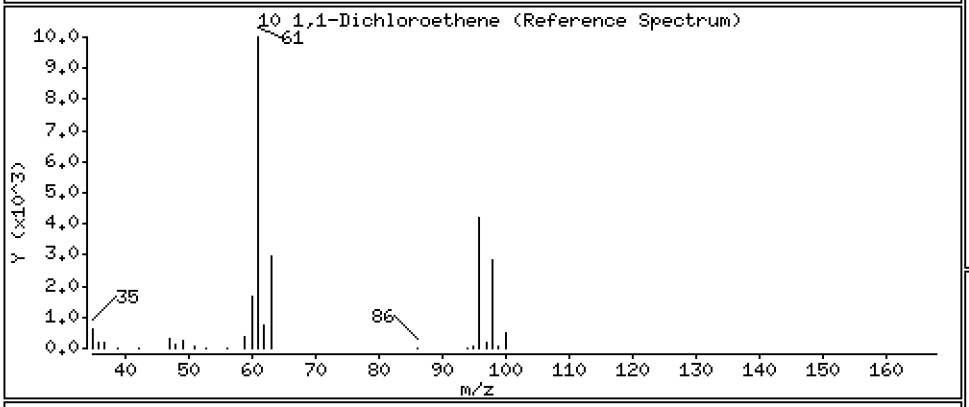
10 1,1-Dichloroethene Concentration: 18.3179 ug/L

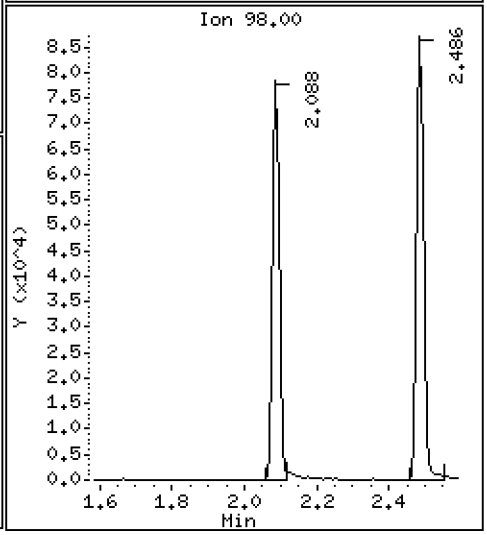


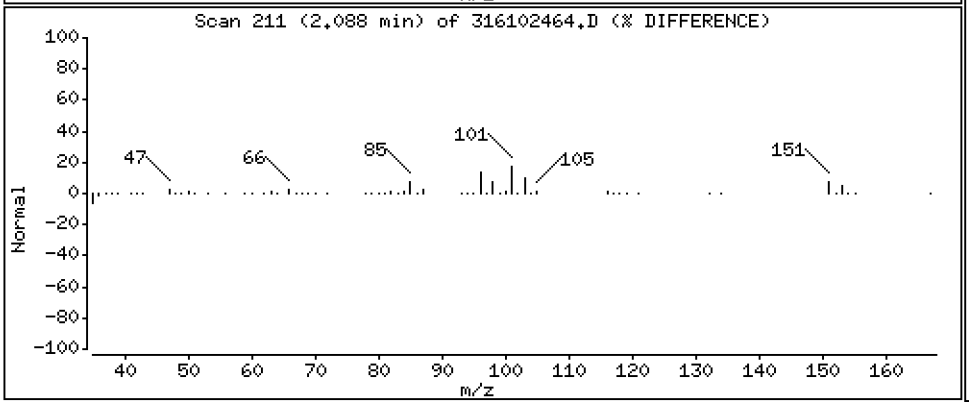












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 23

Date : 25-OCT-2016 03:26

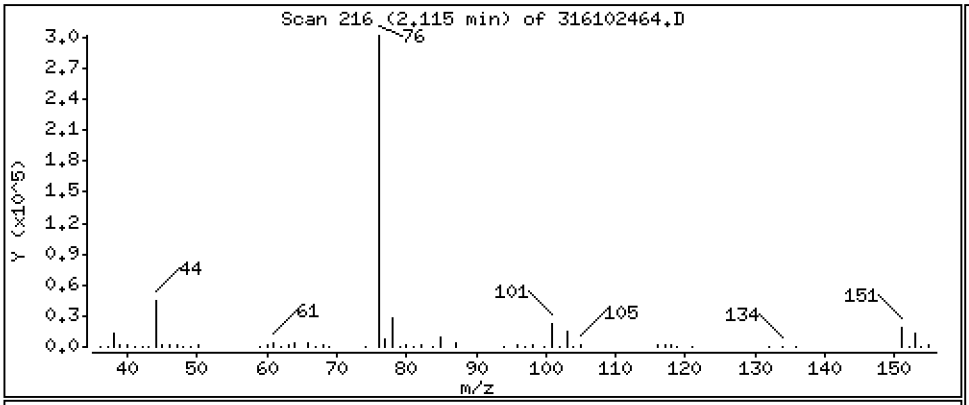
Client ID: LCS for HBN 174041 Instrument: ms03.i

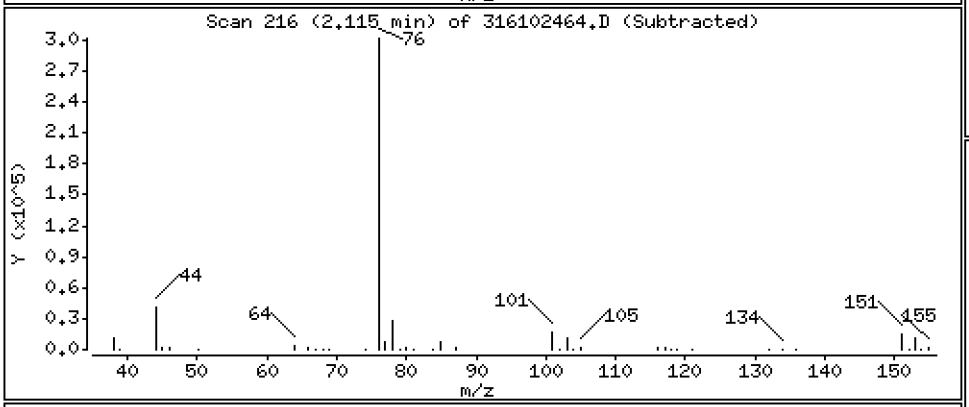
Sample Info: 2428716;;1;3;;LCS;1;

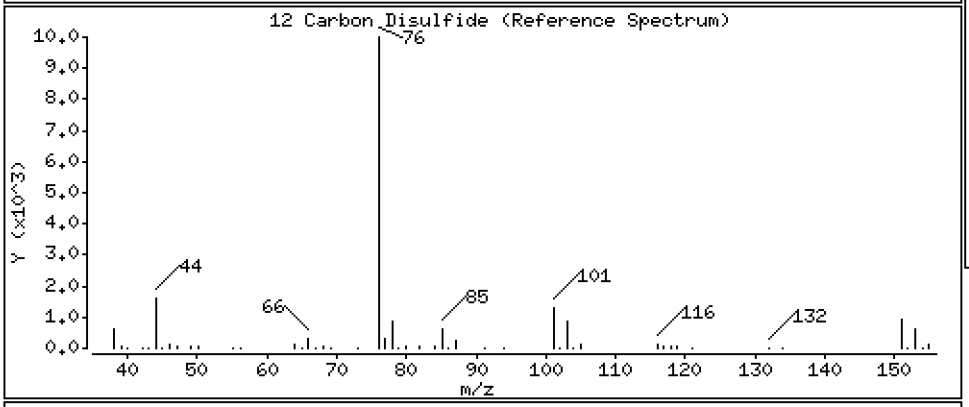
Purge Volume: 5.0 Operator: CJG

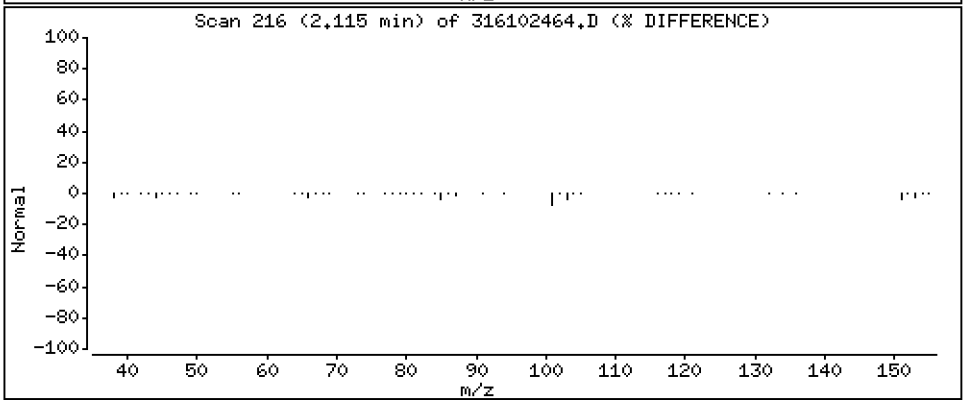
Column phase: DB-VRX Column diameter: 0.25

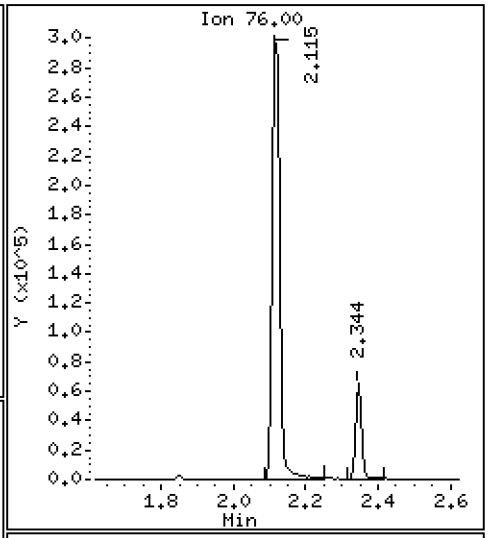
12 Carbon Disulfide Concentration: 16.0581 ug/L

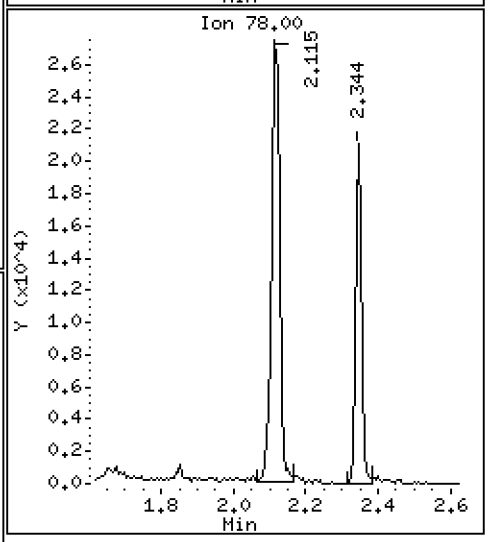












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 24

Date : 25-OCT-2016 03:26

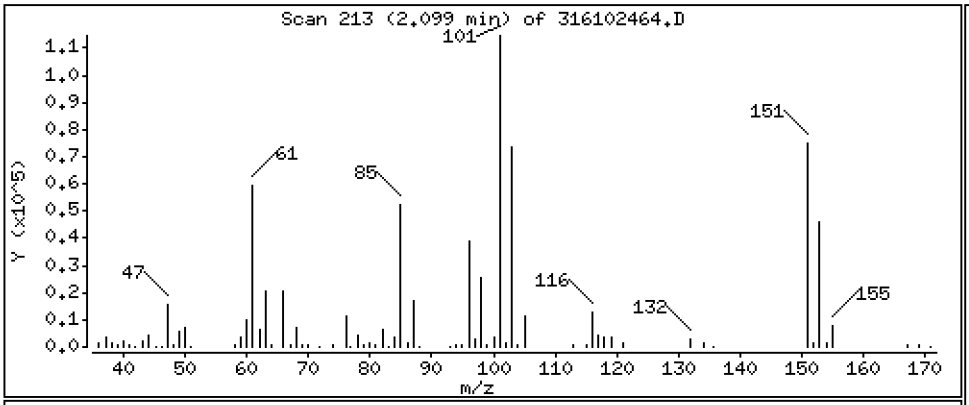
Client ID: LCS for HBN 174041 Instrument: ms03.i

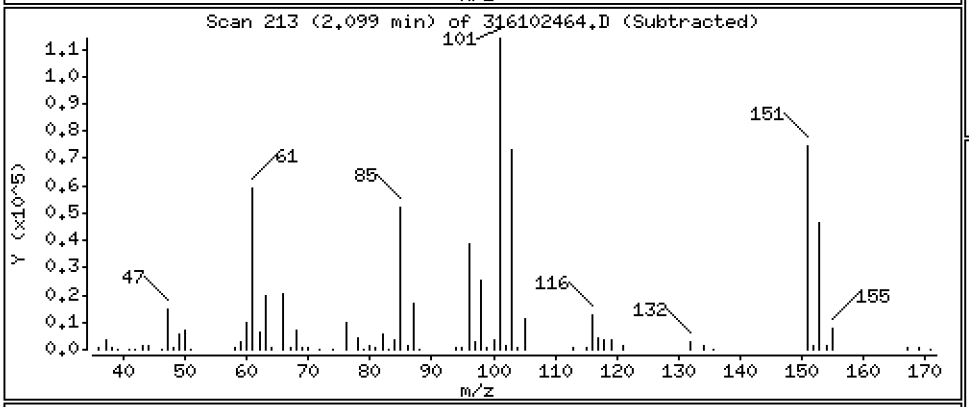
Sample Info: 2428716;;1;3;;LCS;1;

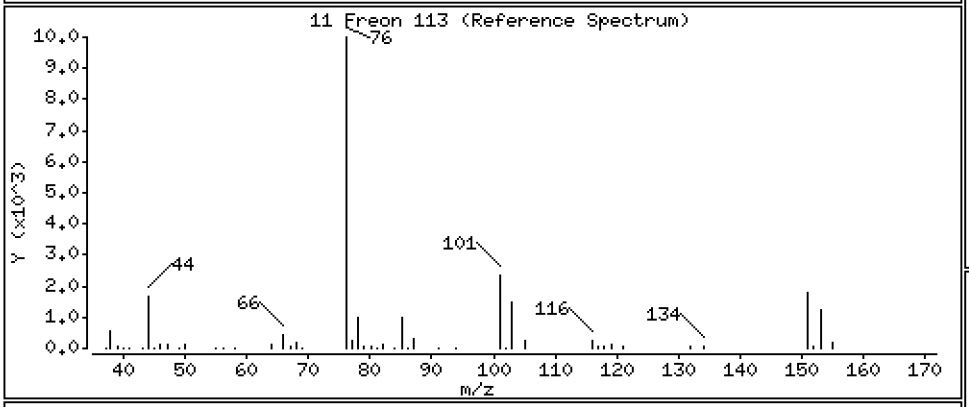
Purge Volume: 5.0 Operator: CJG

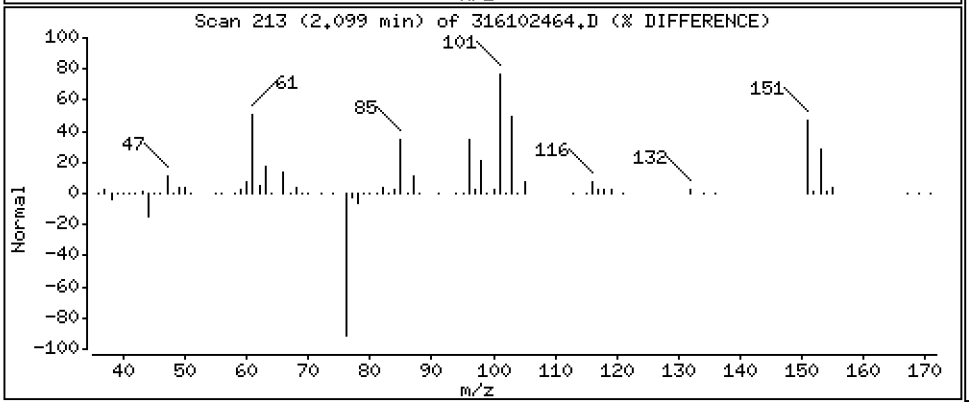
Column phase: DB-VRX Column diameter: 0.25

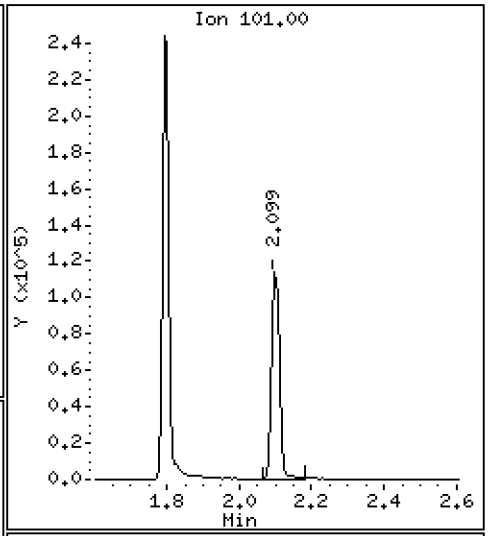
11 Freon 113 Concentration: 19.5274 ug/L

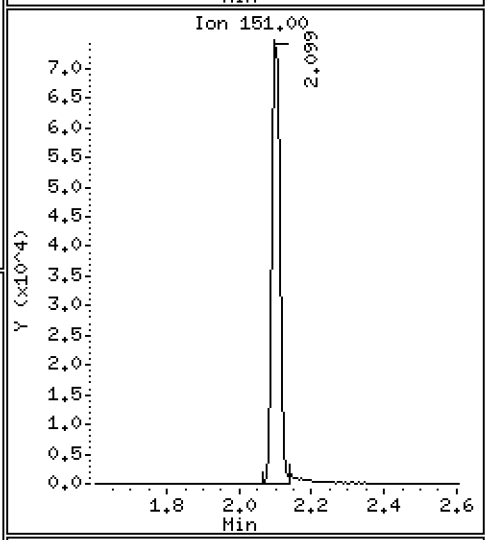


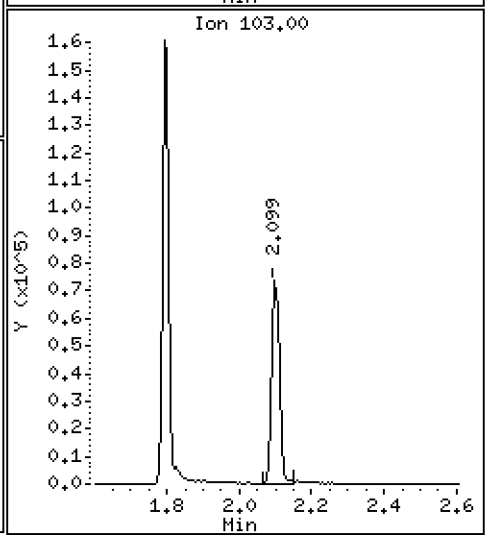












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 25

Date : 25-OCT-2016 03:26

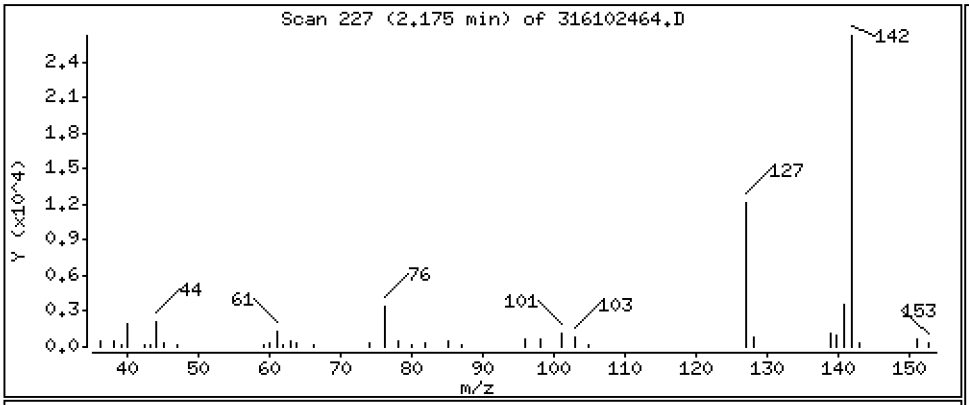
Client ID: LCS for HBN 174041 Instrument: ms03.i

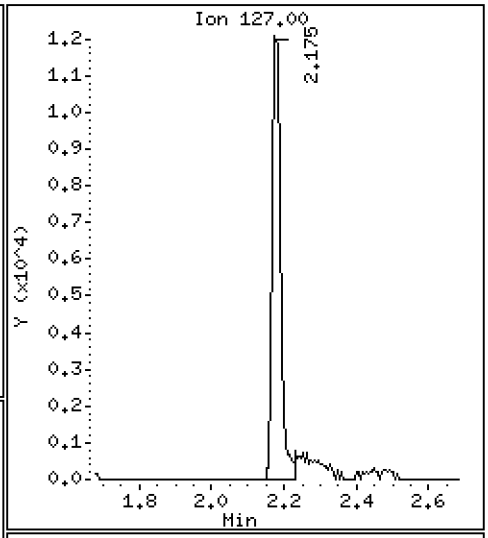
Sample Info: 2428716;;1;3;;LCS;1;

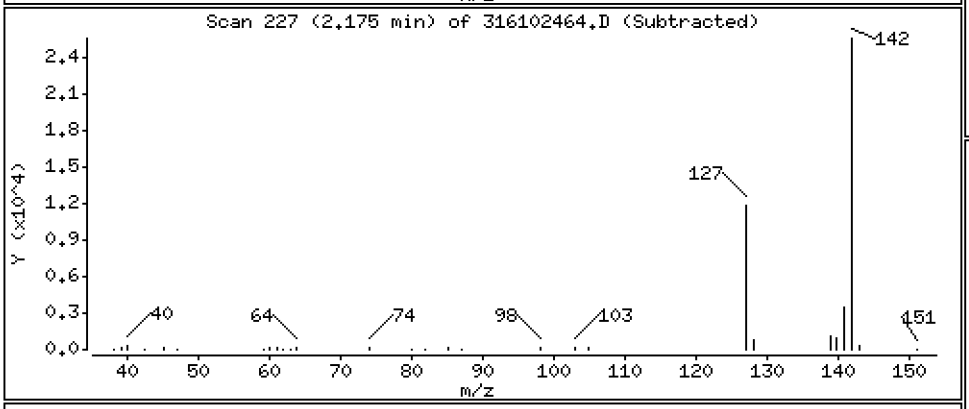
Purge Volume: 5.0 Operator: CJG

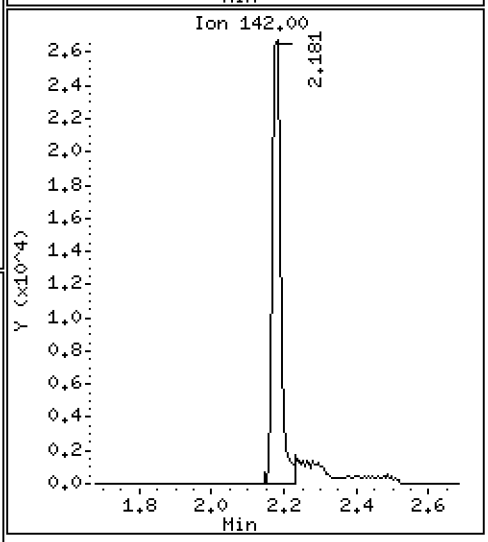
Column phase: DB-VRX Column diameter: 0.25

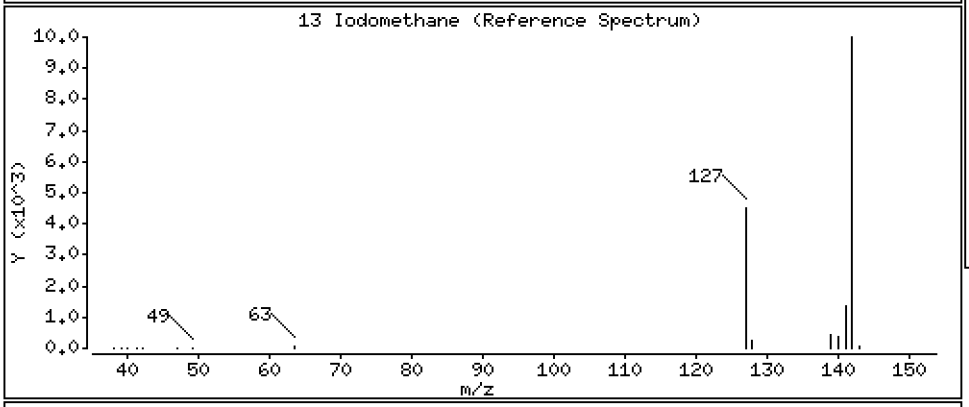
13 Iodomethane Concentration: 11.4797 ug/L

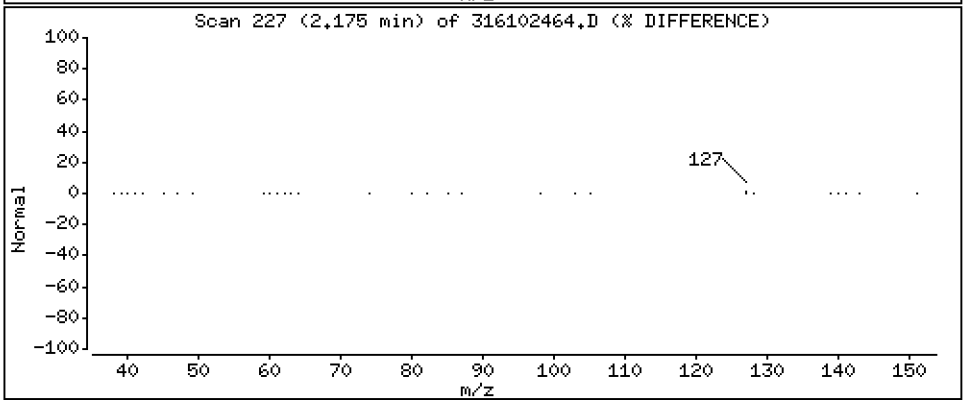












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 26

Date : 25-OCT-2016 03:26

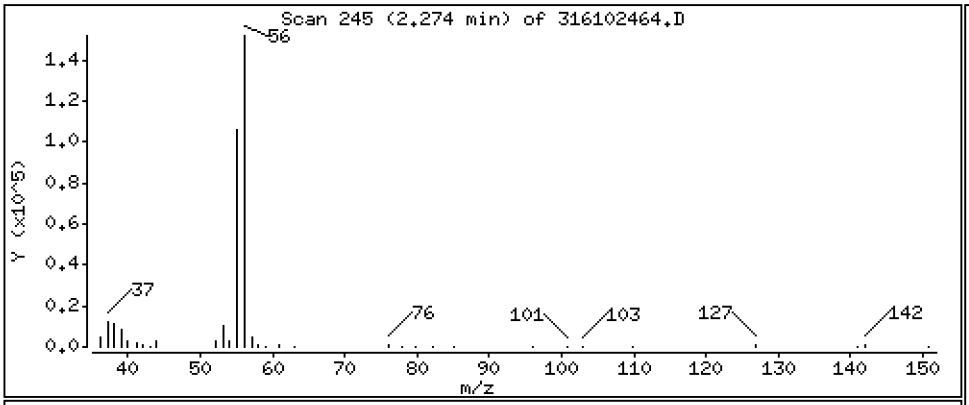
Client ID: LCS for HBN 174041 Instrument: ms03.i

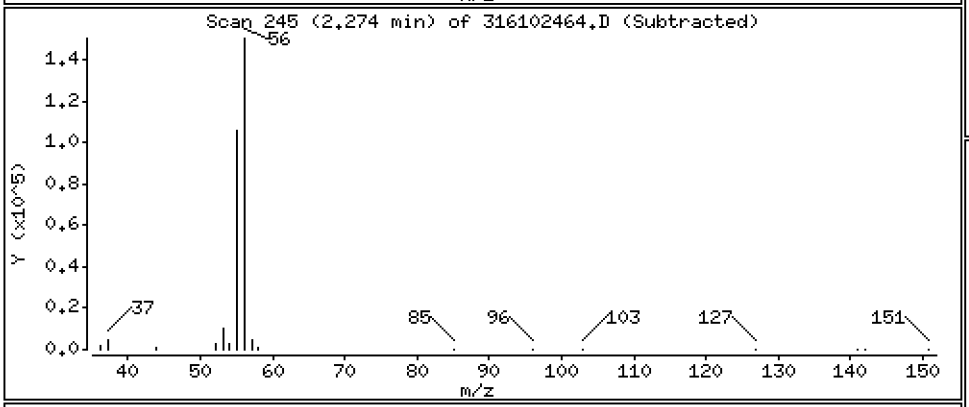
Sample Info: 2428716;;1;3;;LCS;1;

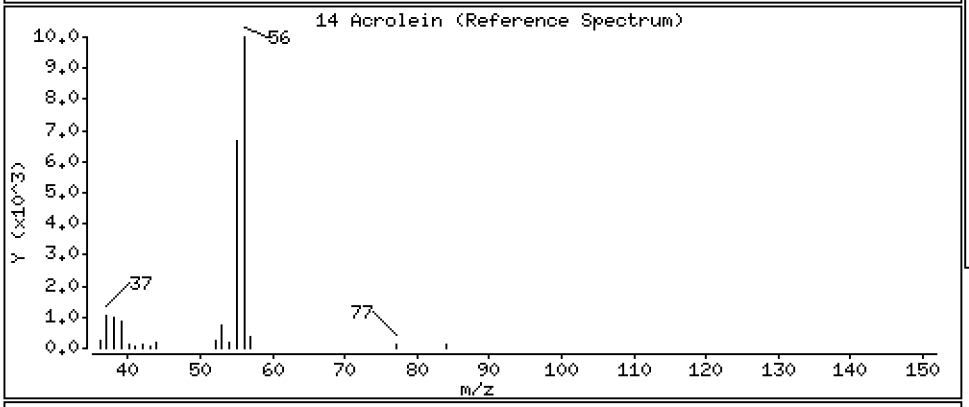
Purge Volume: 5.0 Operator: CJG

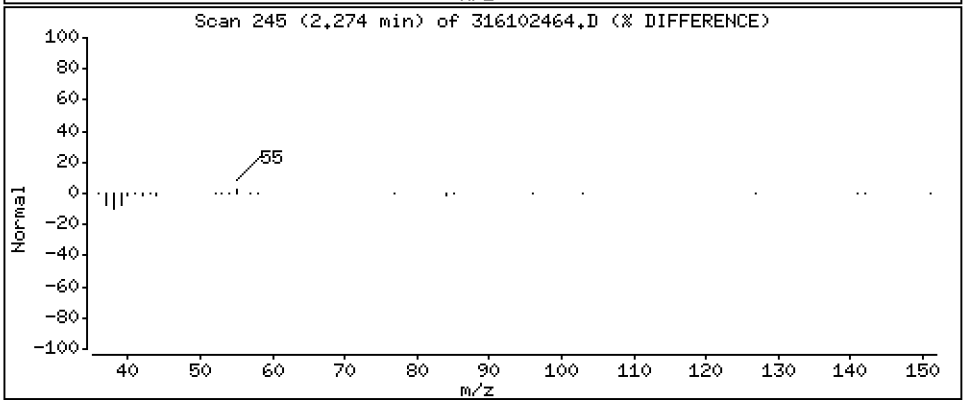
Column phase: DB-VRX Column diameter: 0.25

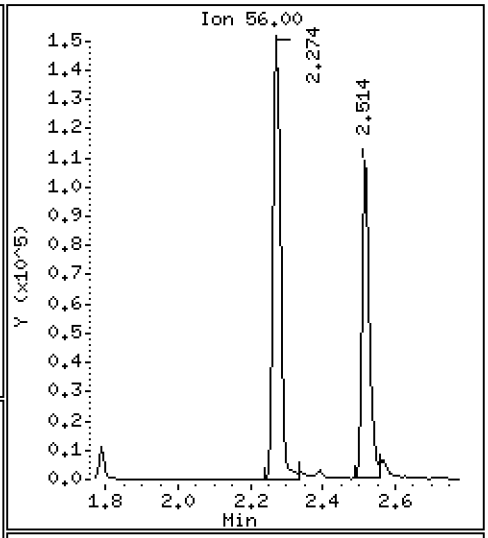
14 Acrolein Concentration: 146.427 ug/L

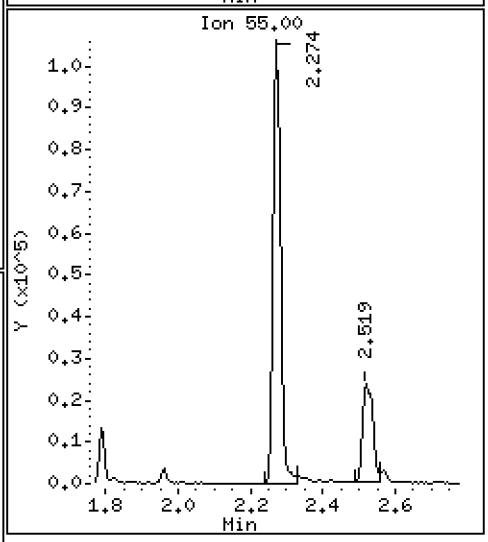












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 27

Date : 25-OCT-2016 03:26

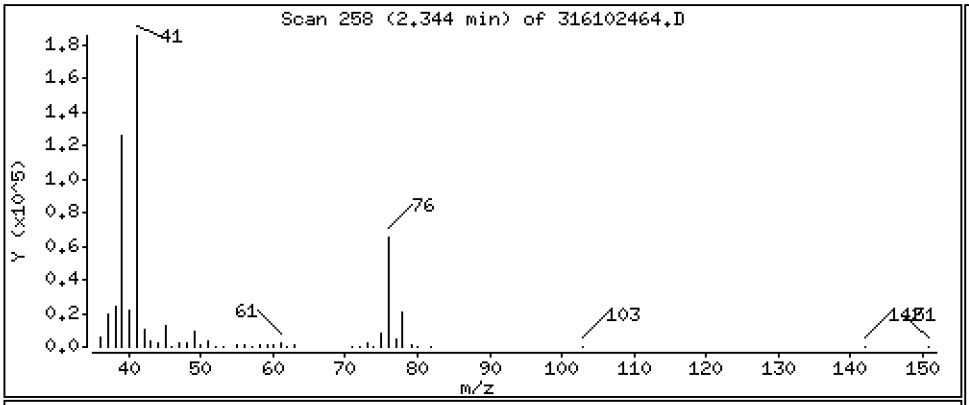
Client ID: LCS for HBN 174041 Instrument: ms03.i

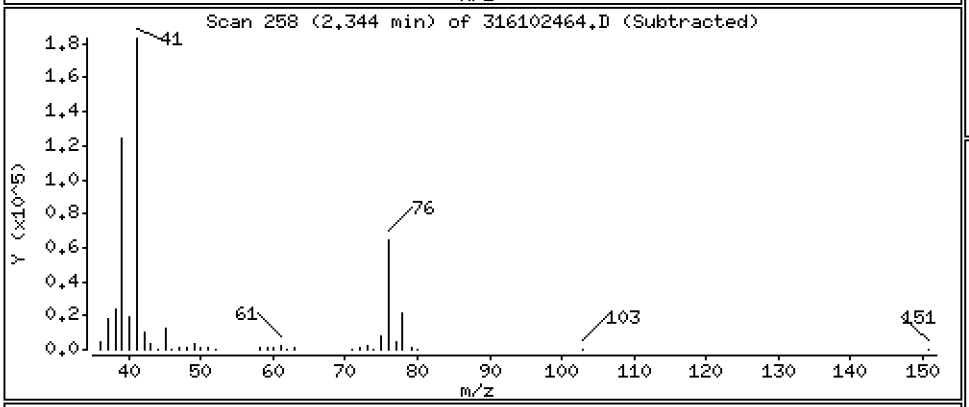
Sample Info: 2428716;;1;3;;LCS;1;

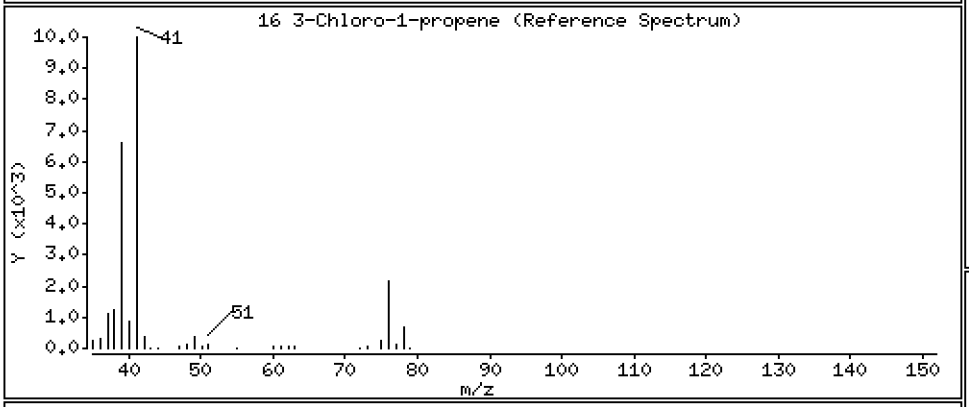
Purge Volume: 5.0 Operator: CJG

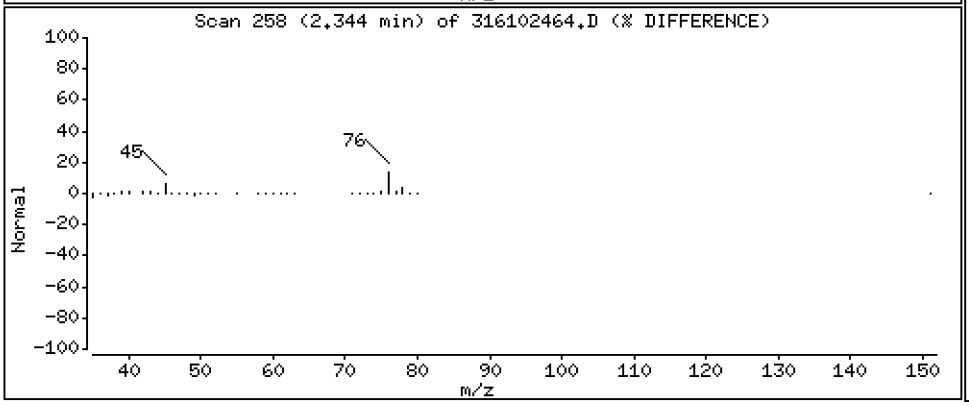
Column phase: DB-VRX Column diameter: 0.25

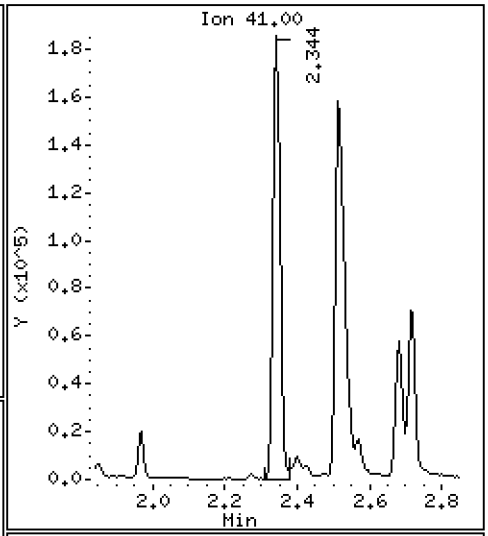
16 3-Chloro-1-propene Concentration: 19.2624 ug/L

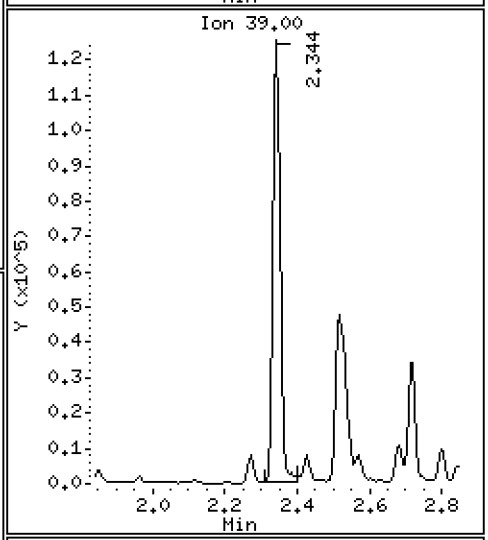


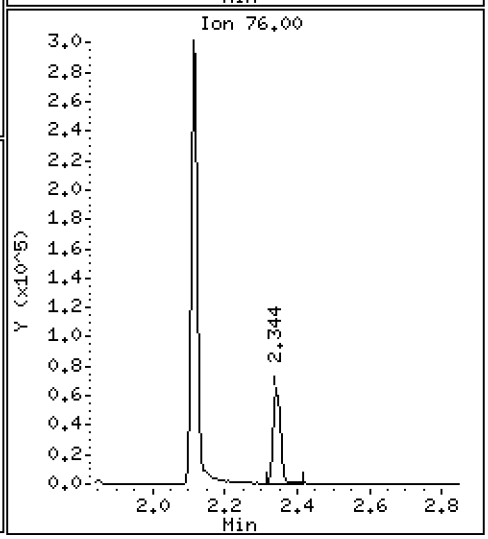












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 28

Date : 25-OCT-2016 03:26

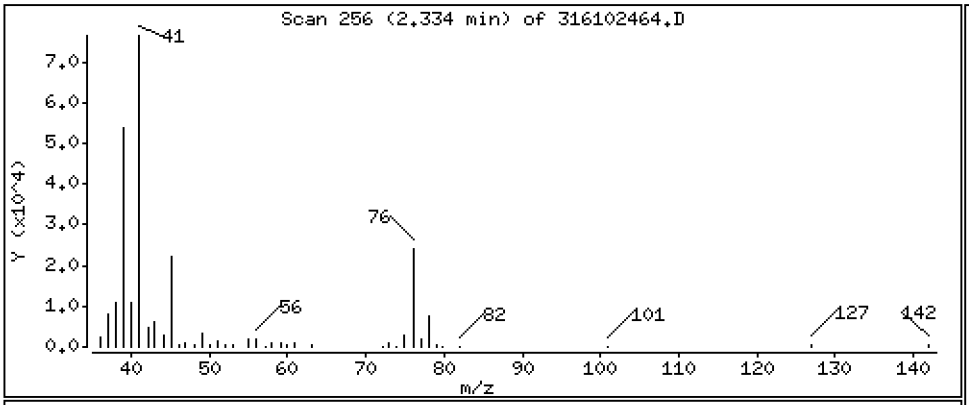
Client ID: LCS for HBN 174041 Instrument: ms03.i

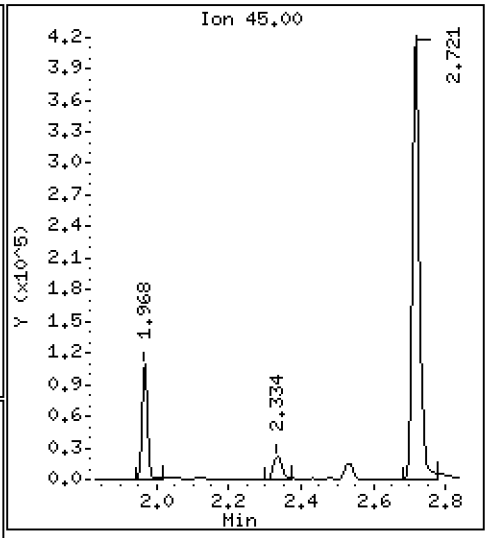
Sample Info: 2428716;;1;3;;LCS;1;

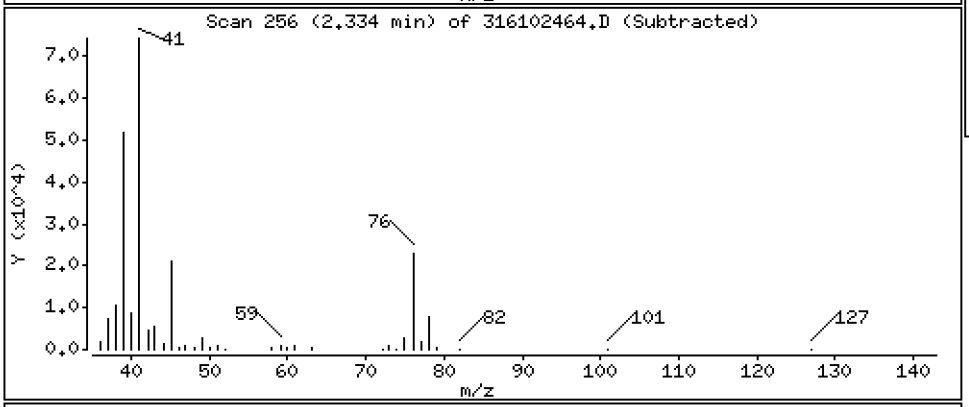
Purge Volume: 5.0 Operator: CJG

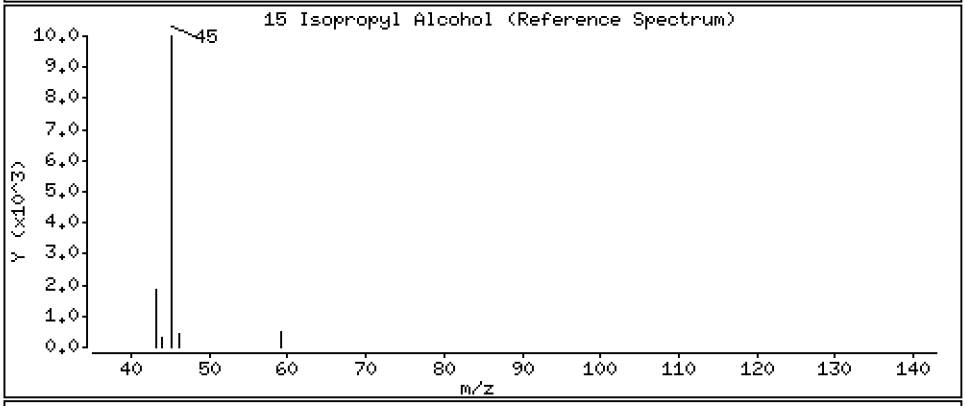
Column phase: DB-VRX Column diameter: 0.25

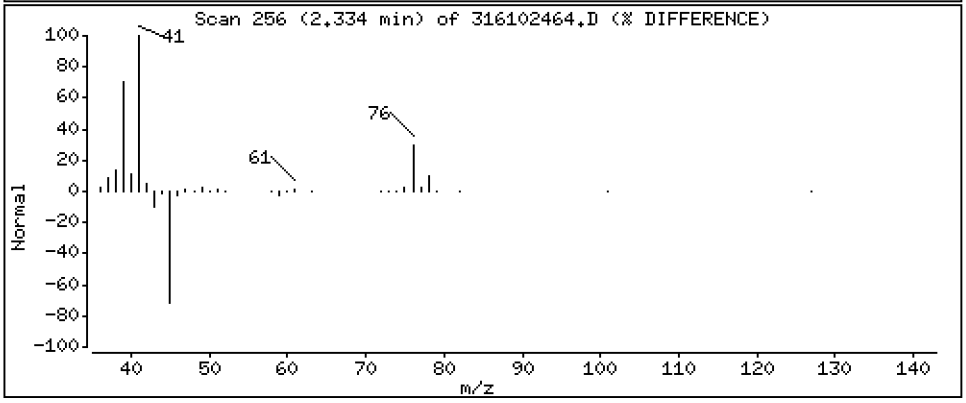
15 Isopropyl Alcohol Concentration: 116.280 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 29

Date : 25-OCT-2016 03:26

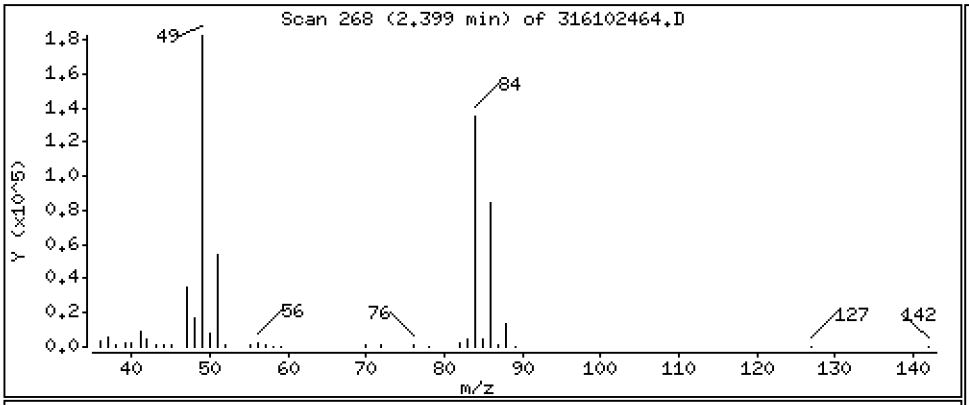
Client ID: LCS for HBN 174041 Instrument: ms03.i

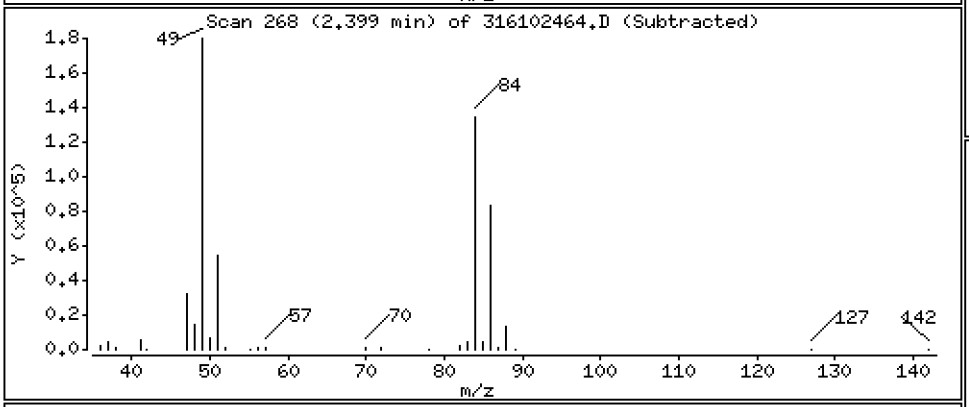
Sample Info: 2428716;;1;3;;LCS;1;

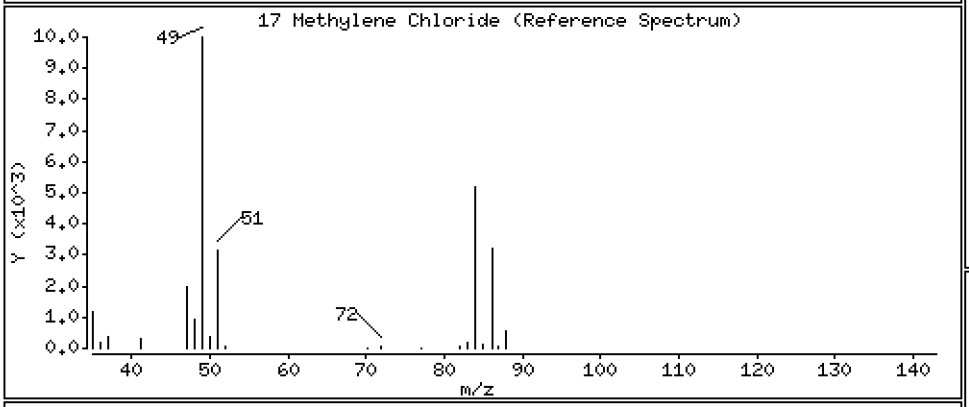
Purge Volume: 5.0 Operator: CJG

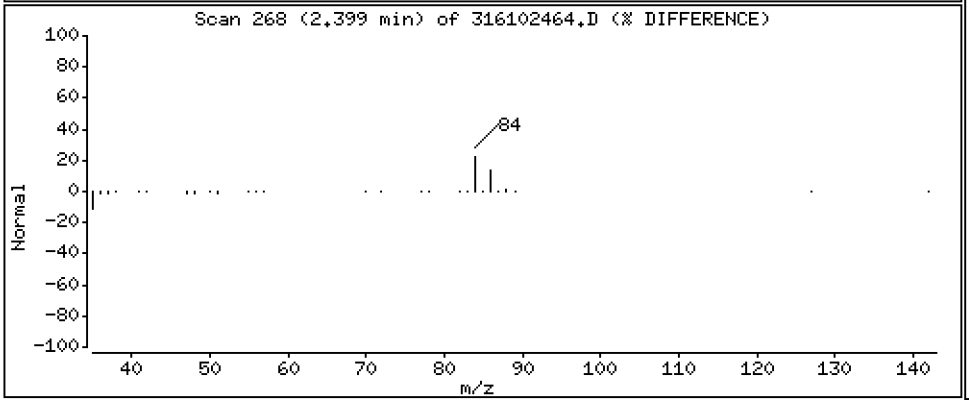
Column phase: DB-VRX Column diameter: 0.25

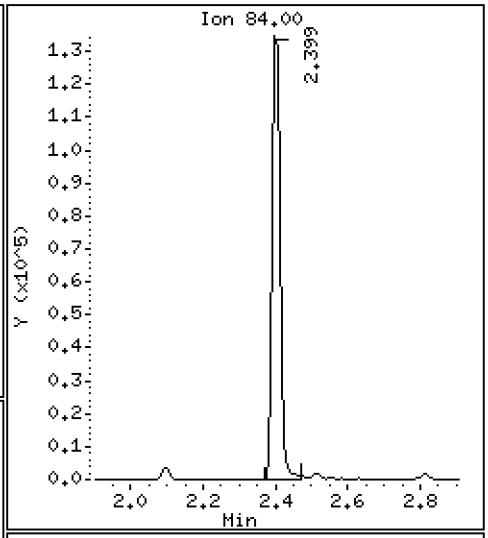
17 Methylene Chloride Concentration: 19.4470 ug/L

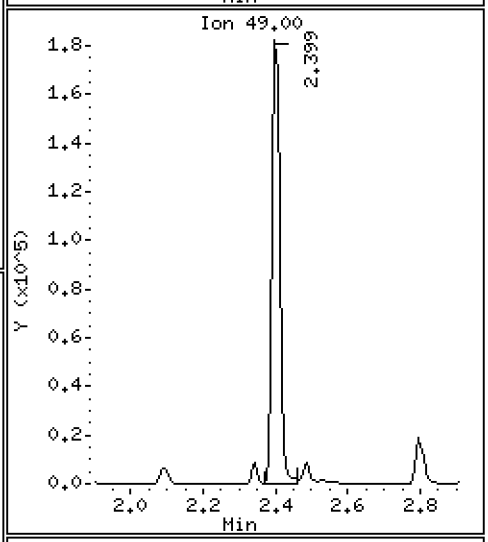


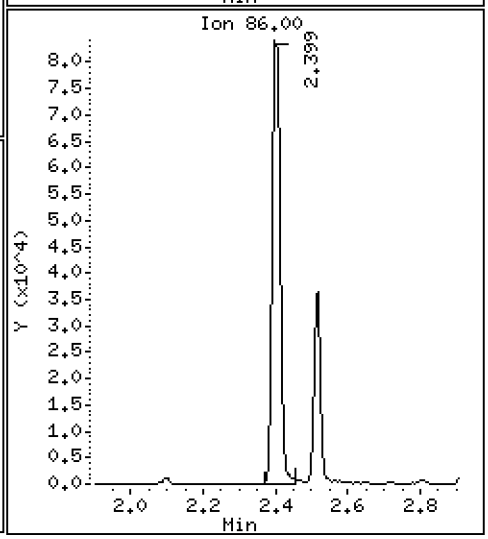












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 30

Date : 25-OCT-2016 03:26

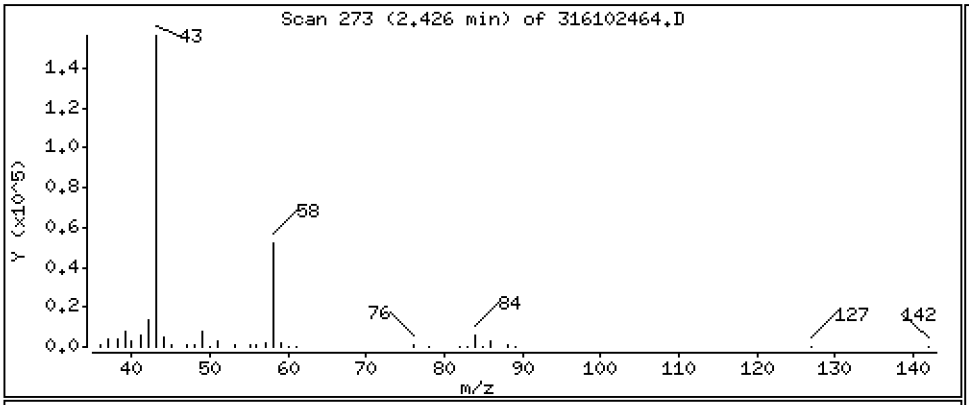
Client ID: LCS for HBN 174041 Instrument: ms03.i

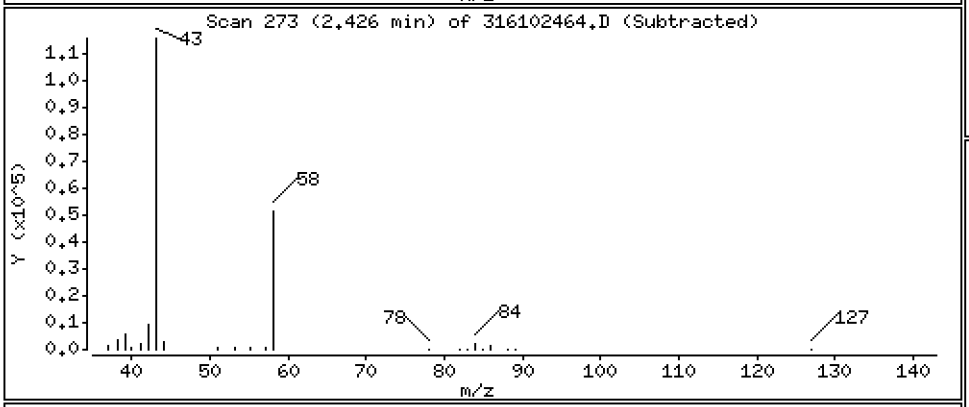
Sample Info: 2428716;;1;3;;LCS;1;

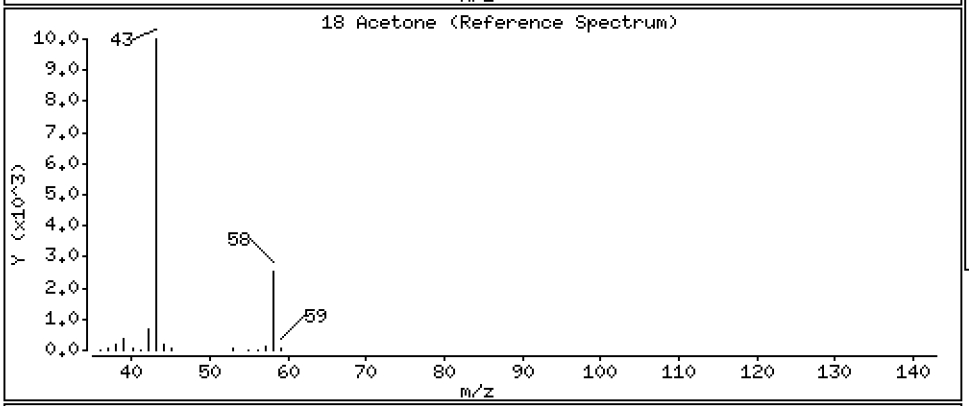
Purge Volume: 5.0 Operator: CJG

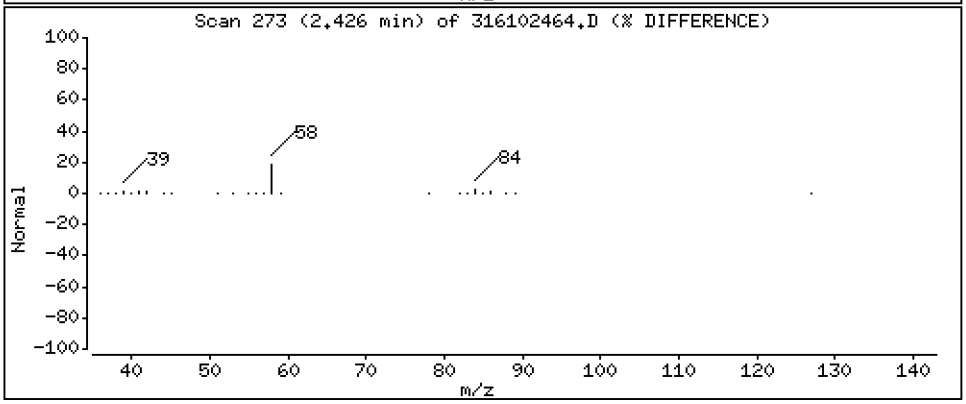
Column phase: DB-VRX Column diameter: 0.25

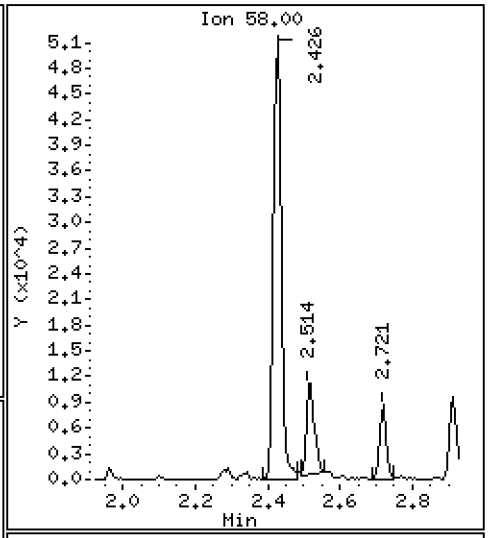
18 Acetone Concentration: 96.5141 ug/L

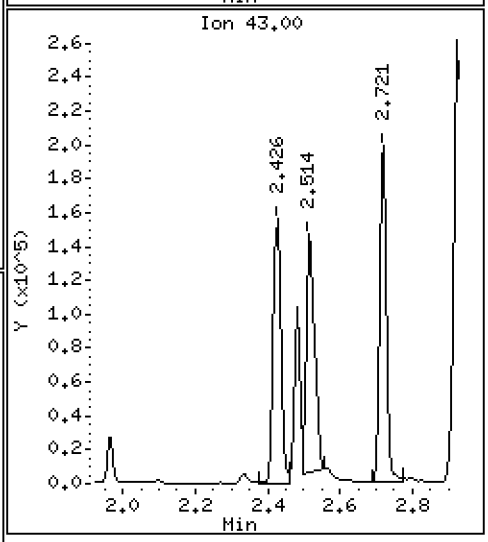












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 31

Date : 25-OCT-2016 03:26

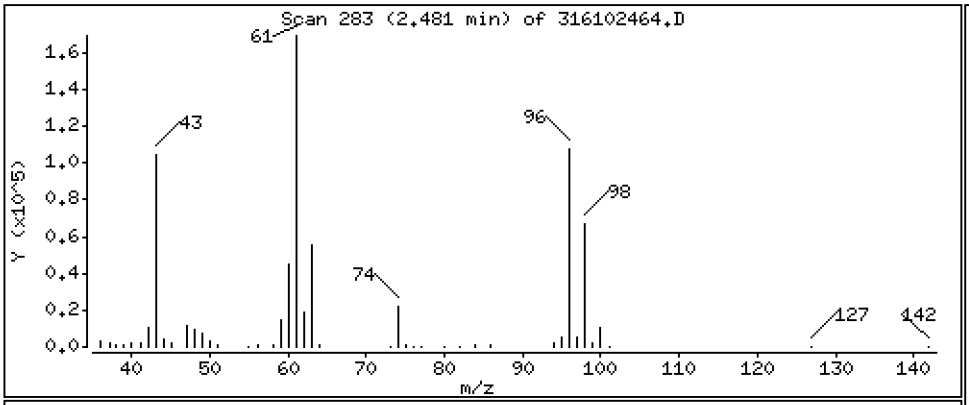
Client ID: LCS for HBN 174041 Instrument: ms03.i

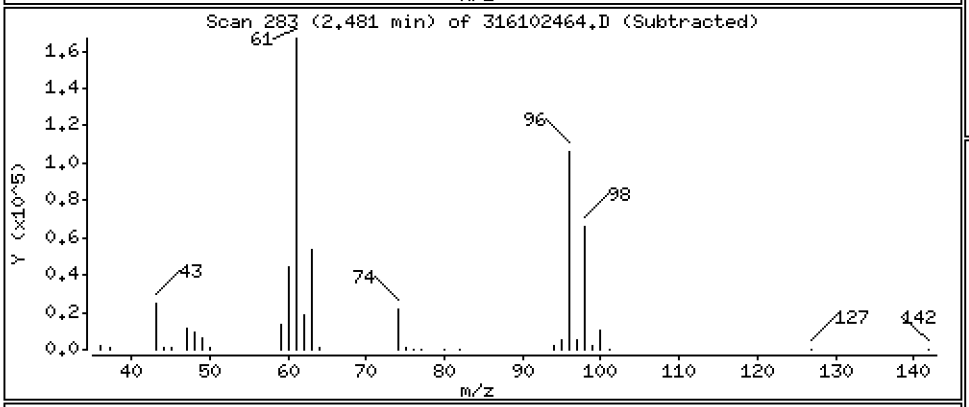
Sample Info: 2428716;;1;3;;LCS;1;

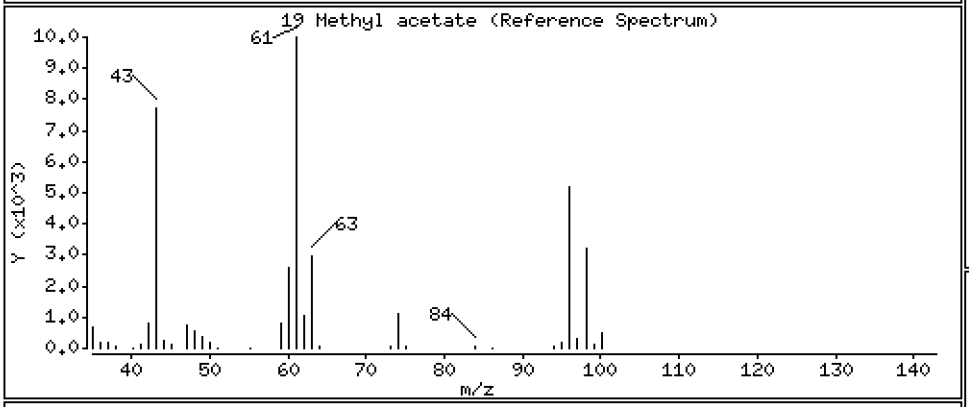
Purge Volume: 5.0 Operator: CJG

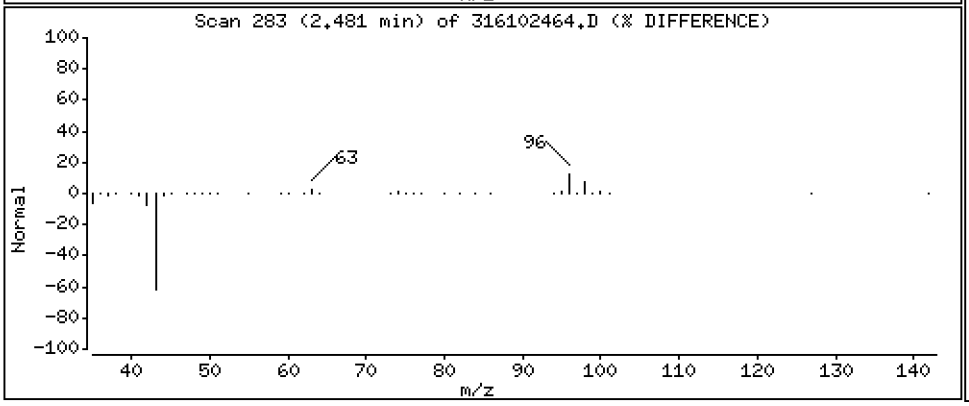
Column phase: DB-VRX Column diameter: 0.25

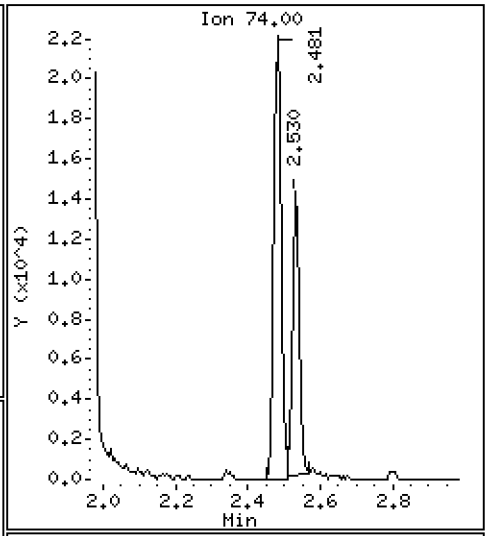
19 Methyl acetate Concentration: 19.3839 ug/L

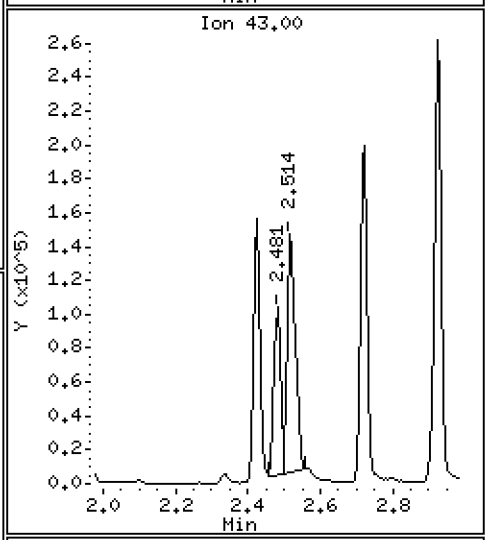


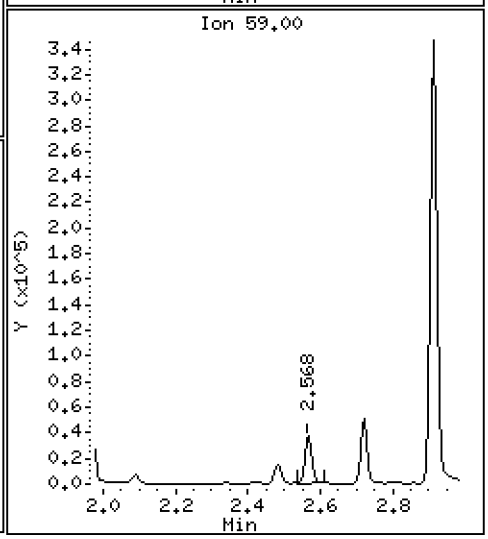












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 32

Date : 25-OCT-2016 03:26

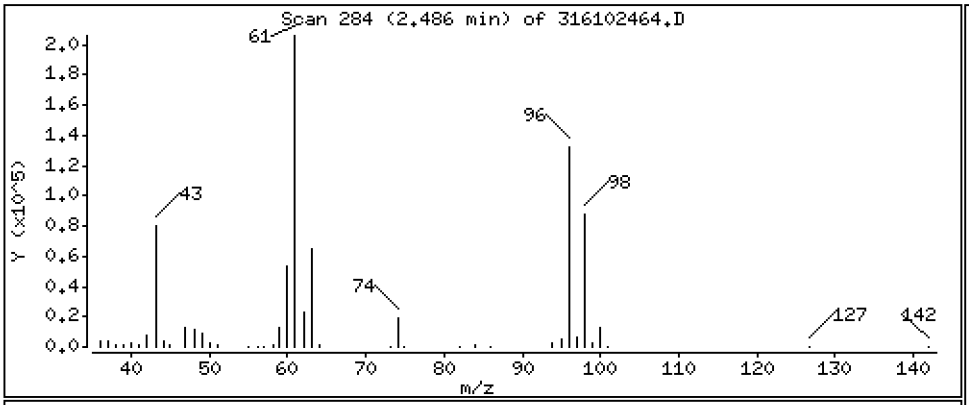
Client ID: LCS for HBN 174041 Instrument: ms03.i

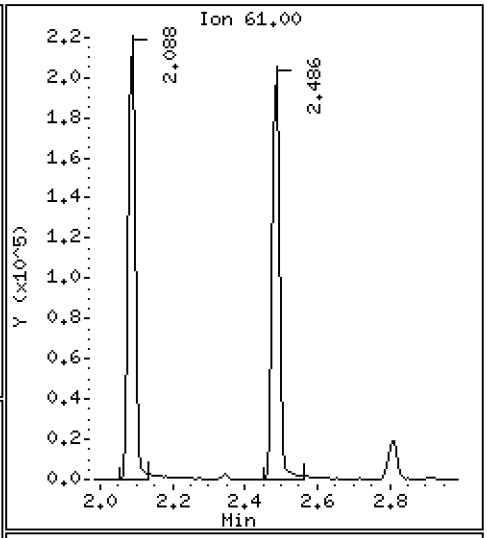
Sample Info: 2428716;;1;3;;LCS;1;

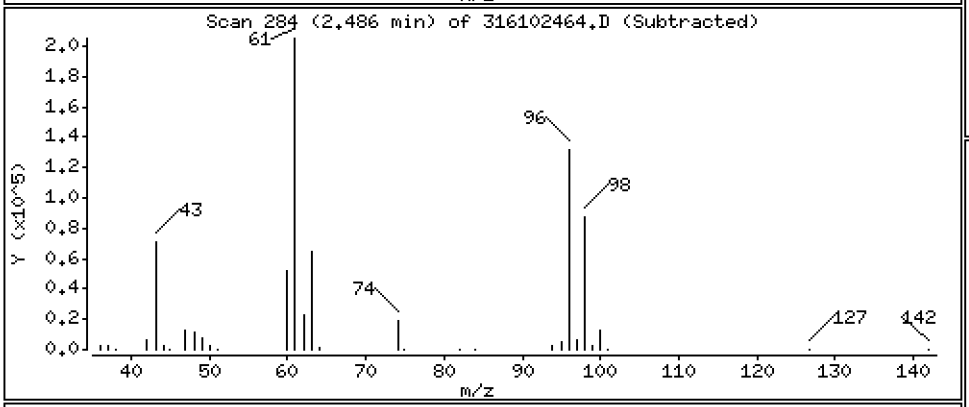
Purge Volume: 5.0 Operator: CJG

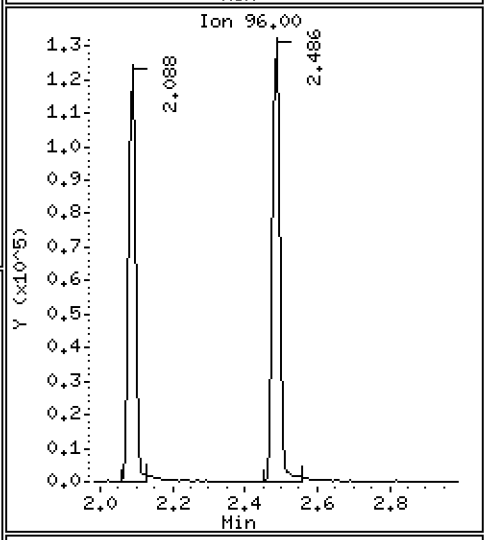
Column phase: DB-VRX Column diameter: 0.25

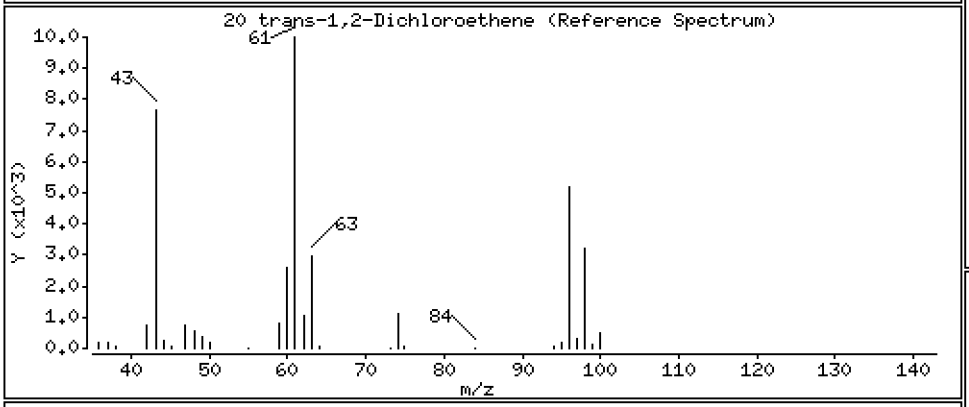
20 trans-1,2-Dichloroethene Concentration: 18.6329 ug/L

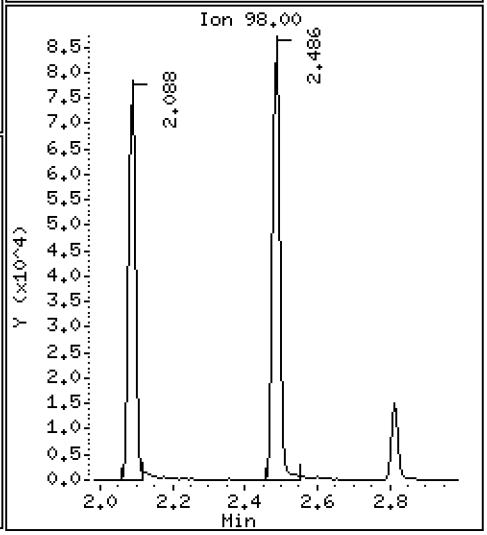


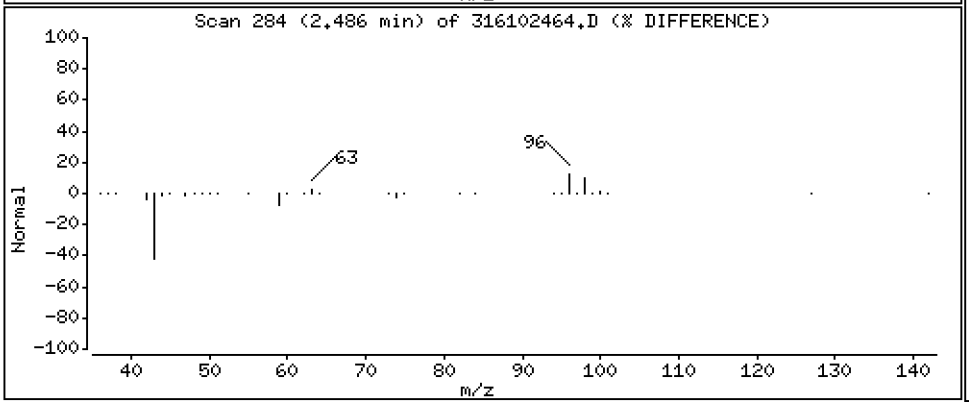












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 33

Date : 25-OCT-2016 03:26

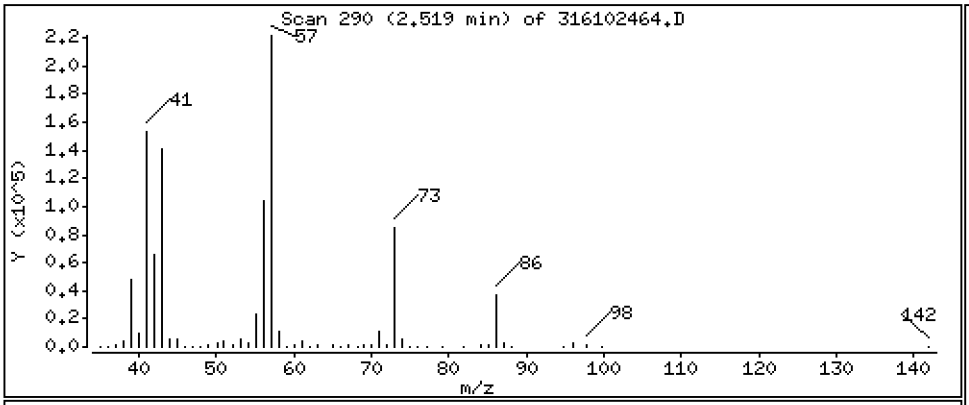
Client ID: LCS for HBN 174041 Instrument: ms03.i

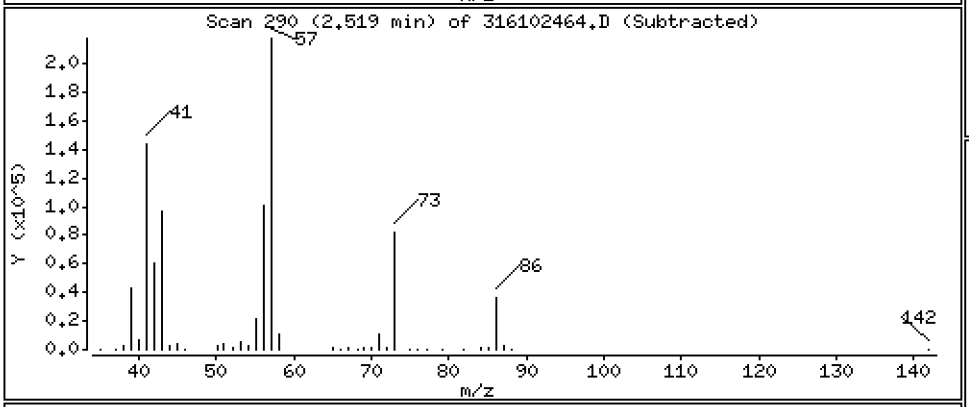
Sample Info: 2428716;;1;3;;LCS;1;

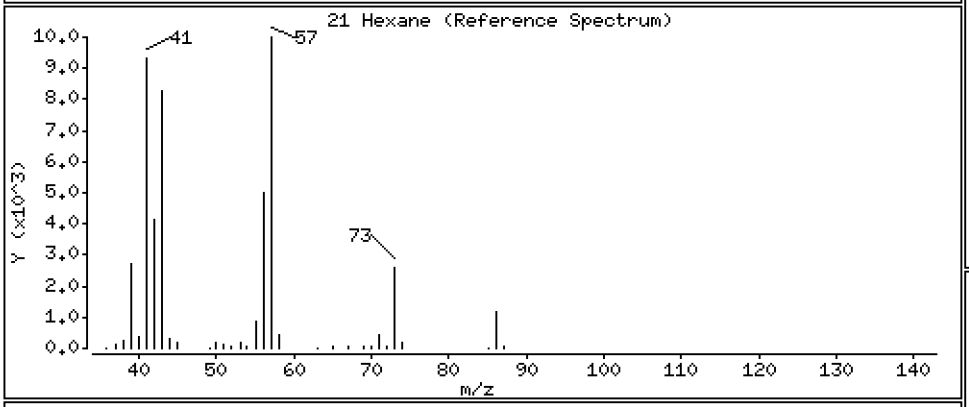
Purge Volume: 5.0 Operator: CJG

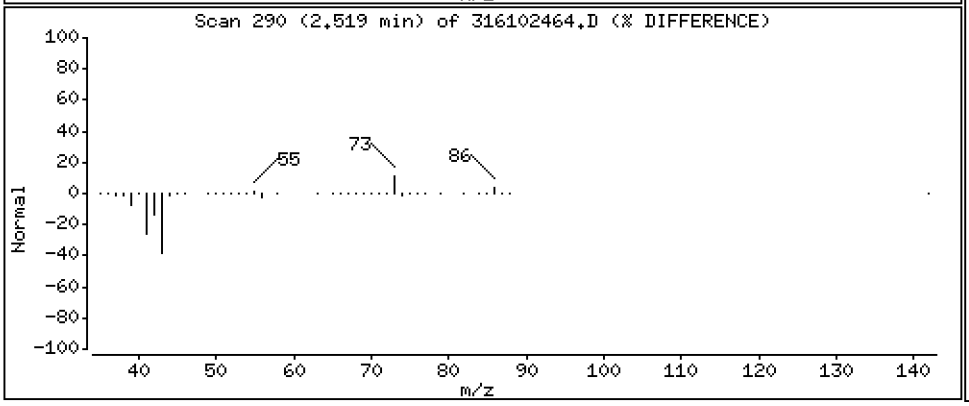
Column phase: DB-VRX Column diameter: 0.25

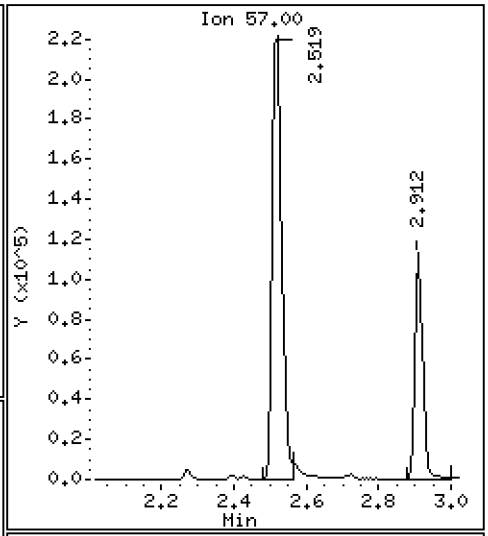
21 Hexane Concentration: 19.2294 ug/L

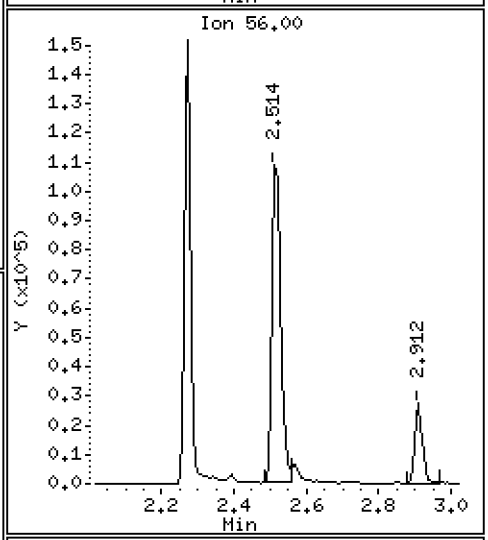


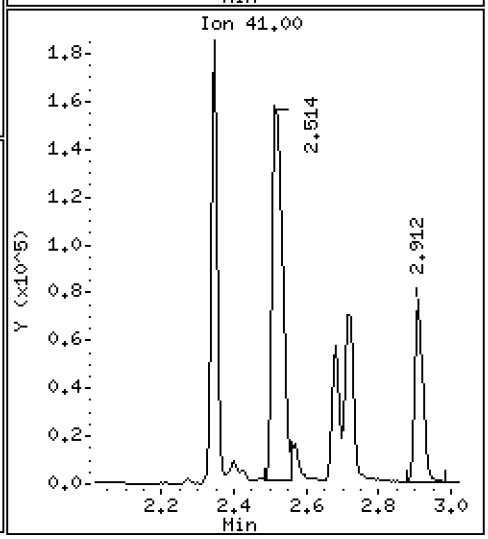












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 34

Date : 25-OCT-2016 03:26

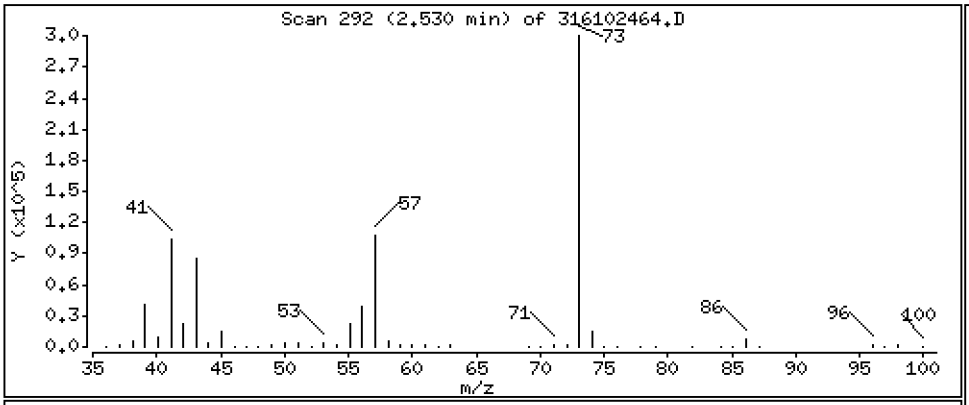
Client ID: LCS for HBN 174041 Instrument: ms03.i

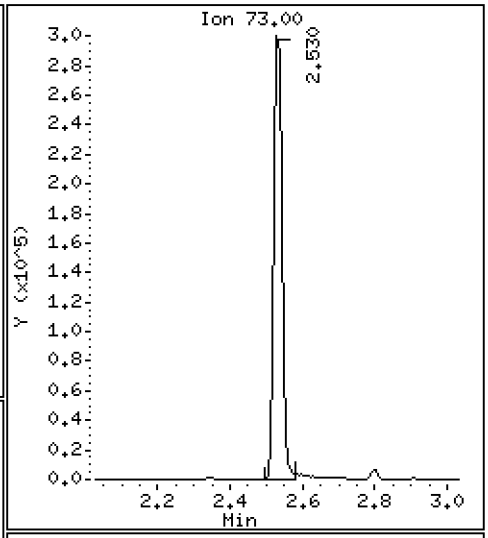
Sample Info: 2428716;;1;3;;LCS;1;

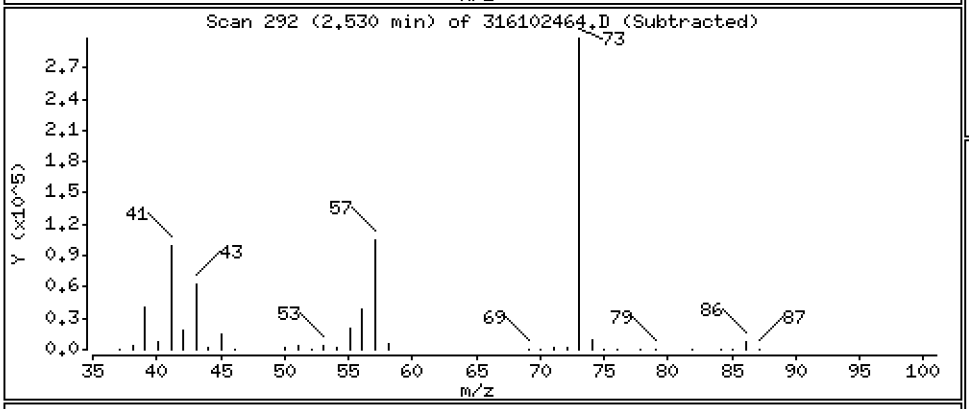
Purge Volume: 5.0 Operator: CJG

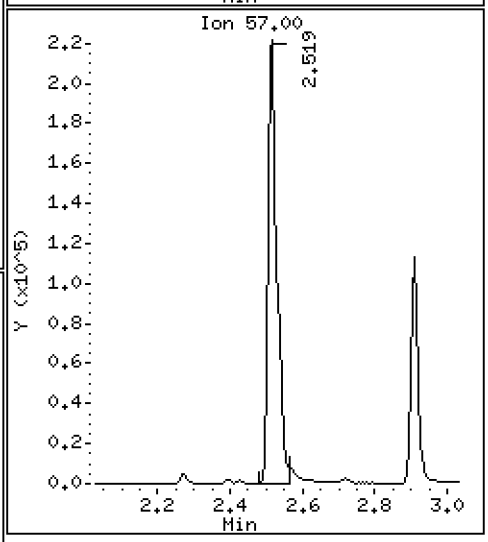
Column phase: DB-VRX Column diameter: 0.25

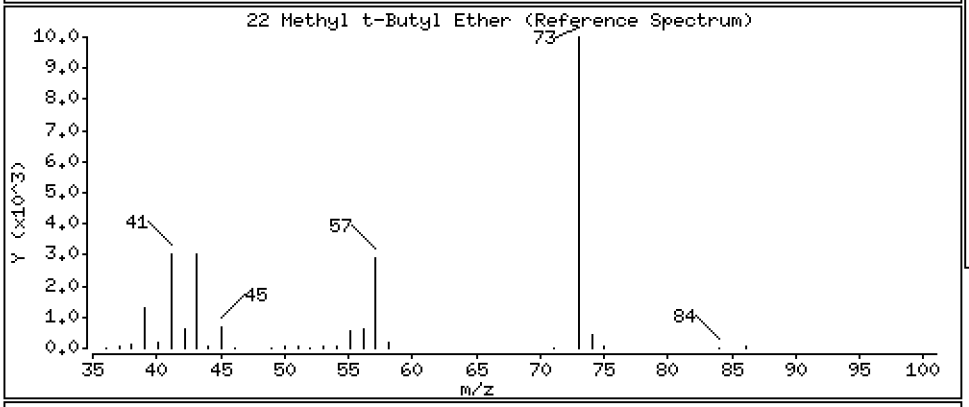
22 Methyl t-Butyl Ether Concentration: 17.9253 ug/L

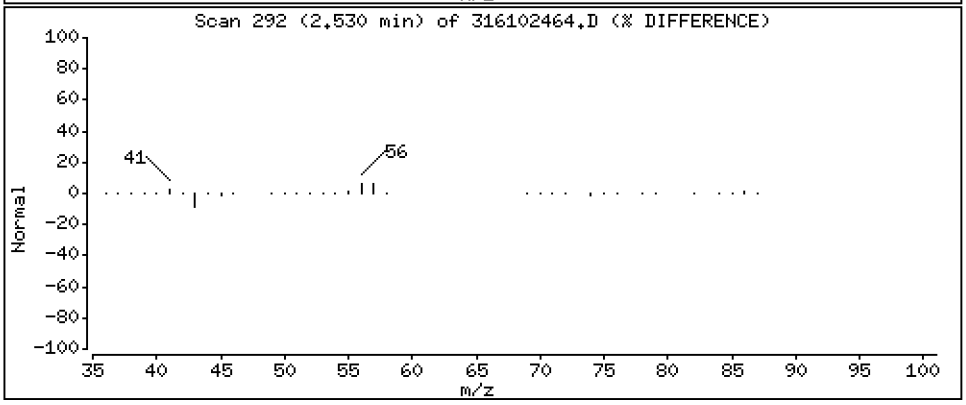












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 35

Date : 25-OCT-2016 03:26

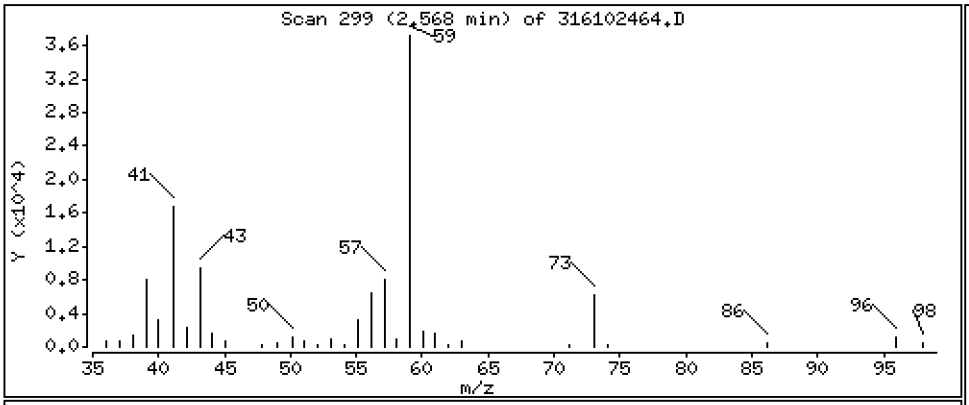
Client ID: LCS for HBN 174041 Instrument: ms03.i

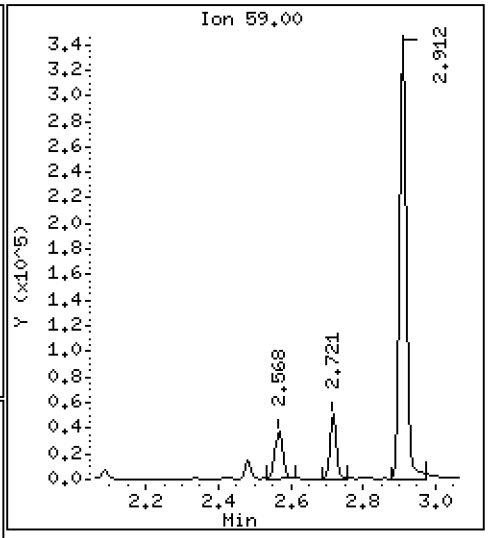
Sample Info: 2428716;;1;3;;LCS;1;

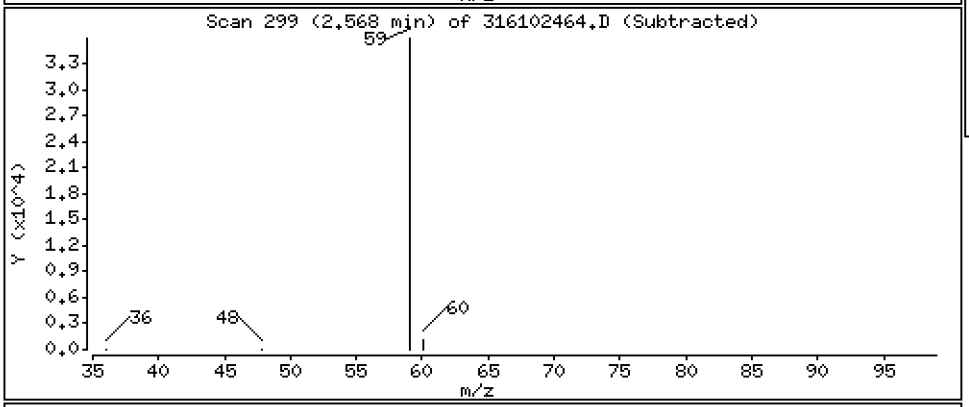
Purge Volume: 5.0 Operator: CJG

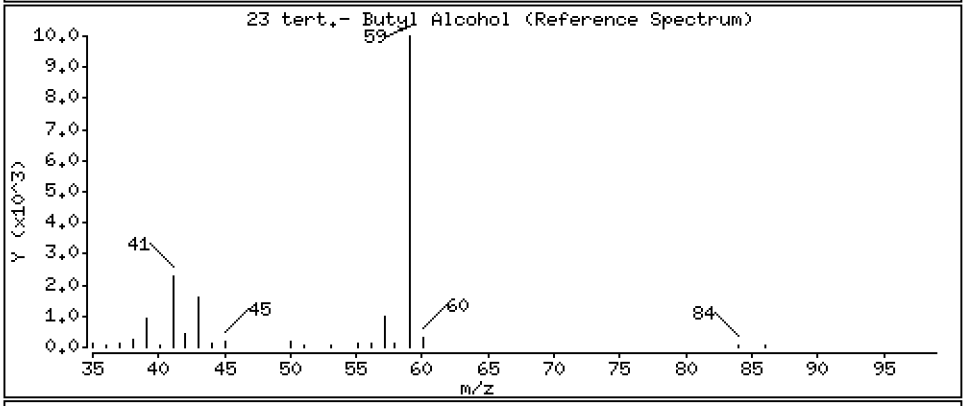
Column phase: DB-VRX Column diameter: 0.25

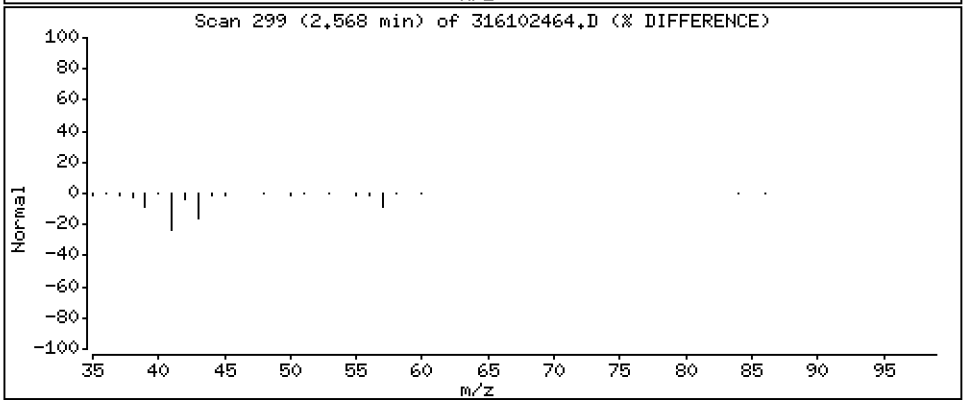
23 tert.- Butyl Alcohol Concentration: 105.771 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 36

Date : 25-OCT-2016 03:26

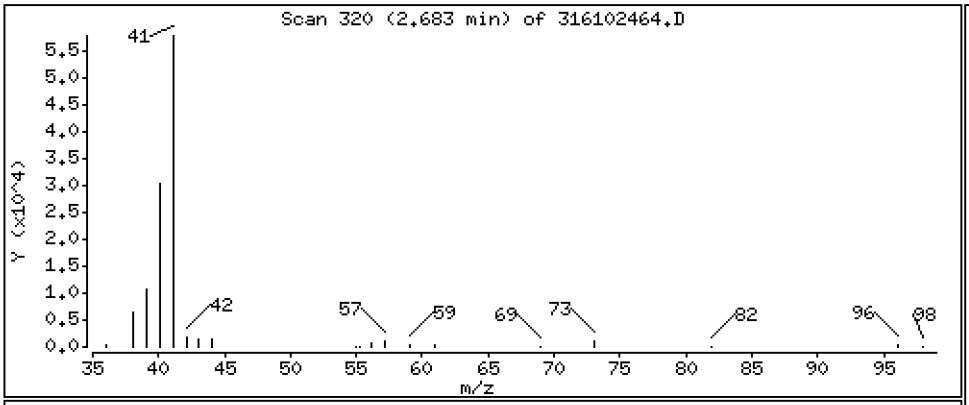
Client ID: LCS for HBN 174041 Instrument: ms03.i

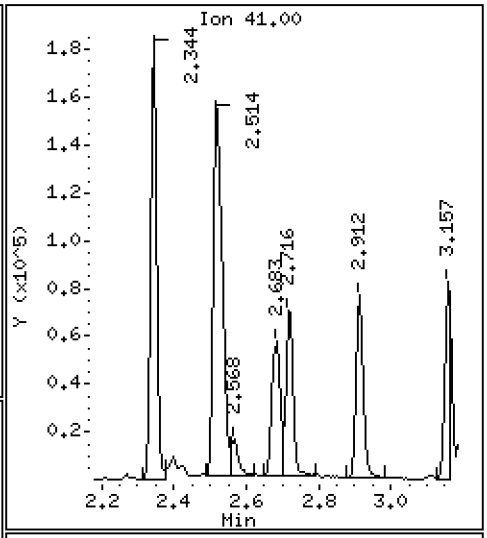
Sample Info: 2428716;;1;3;;LCS;1;

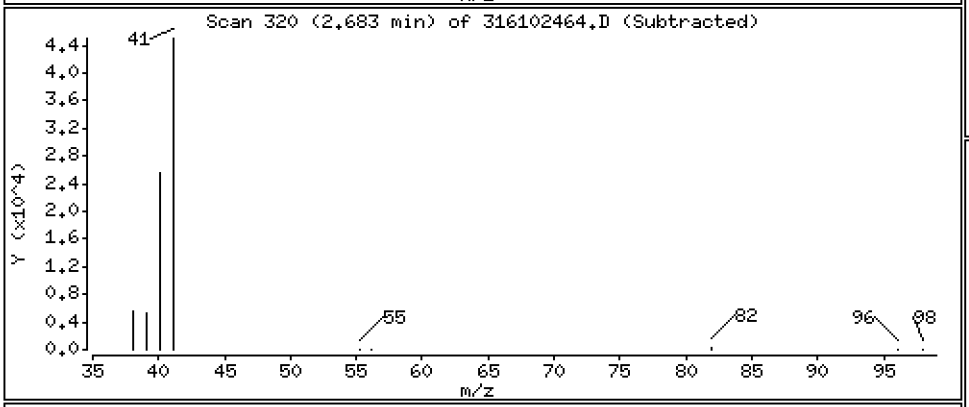
Purge Volume: 5.0 Operator: CJG

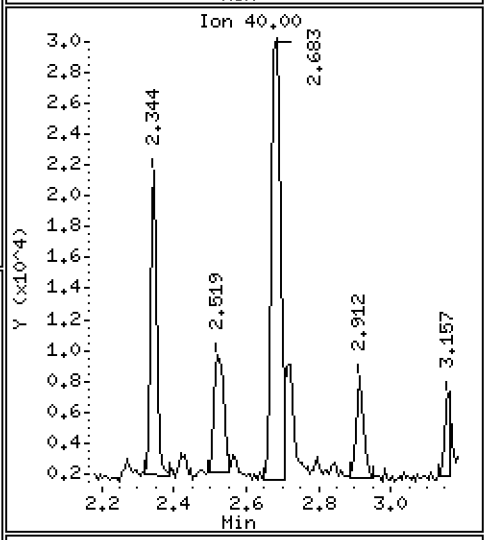
Column phase: DB-VRX Column diameter: 0.25

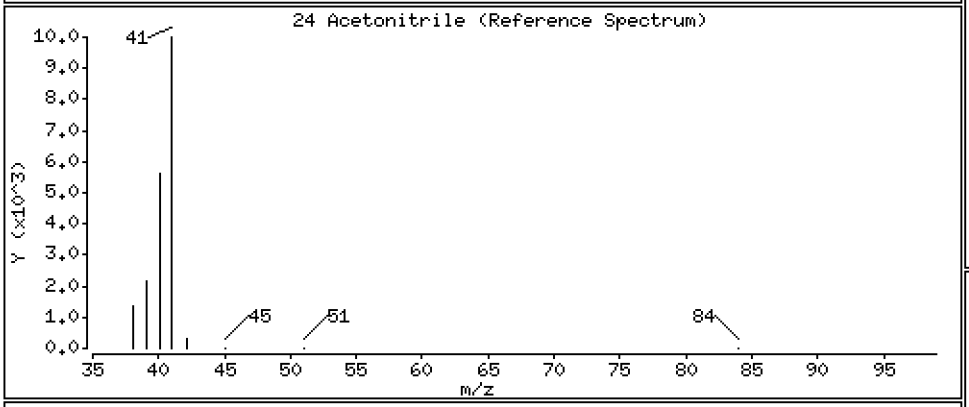
24 Acetonitrile Concentration: 107.445 ug/L

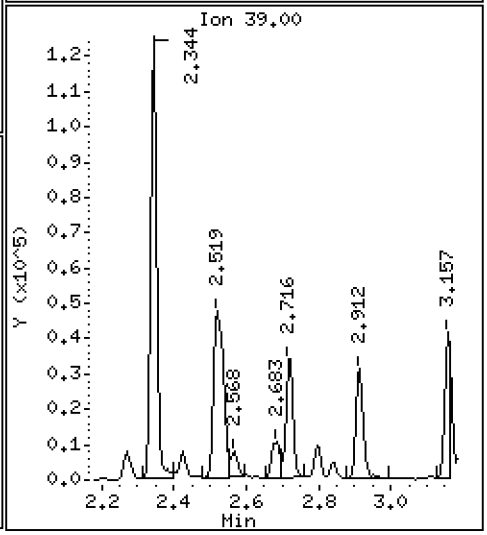


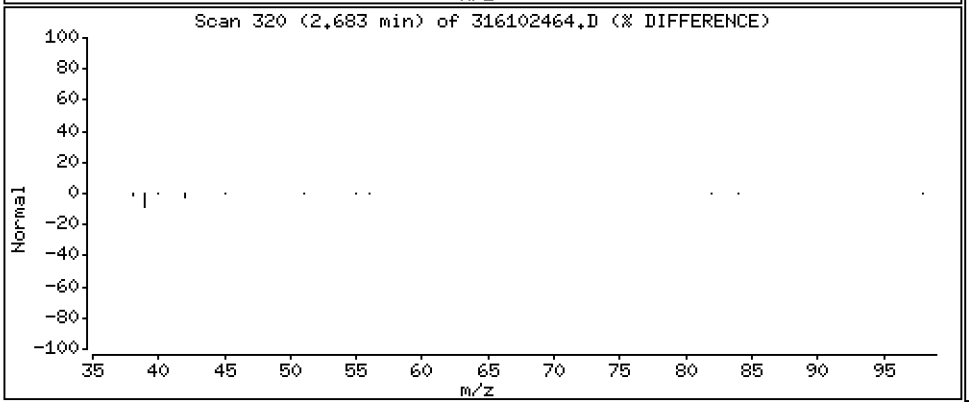












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 37

Date : 25-OCT-2016 03:26

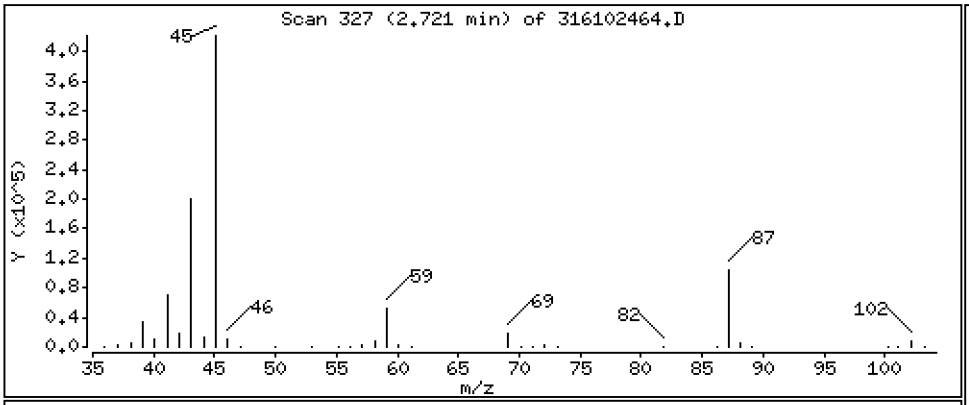
Client ID: LCS for HBN 174041 Instrument: ms03.i

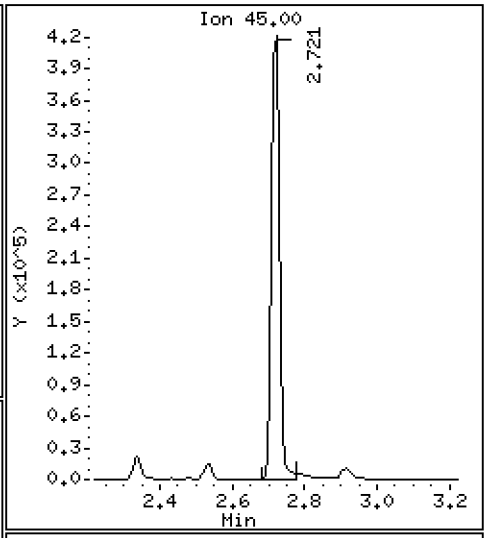
Sample Info: 2428716;;1;3;;LCS;1;

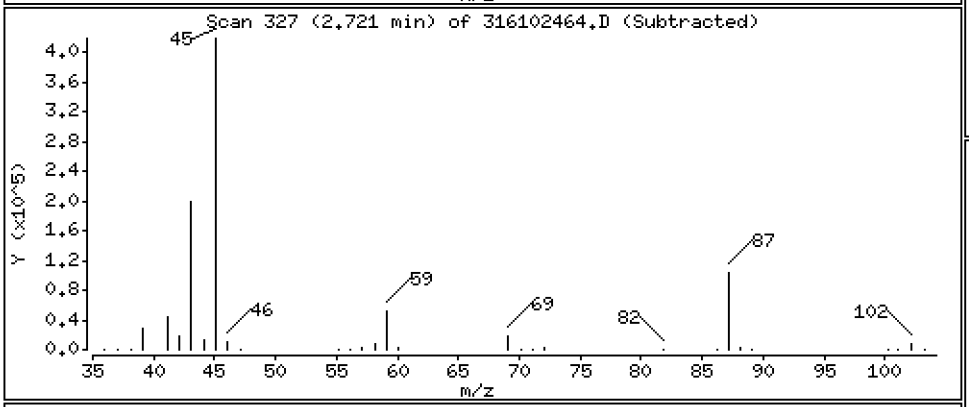
Purge Volume: 5.0 Operator: CJG

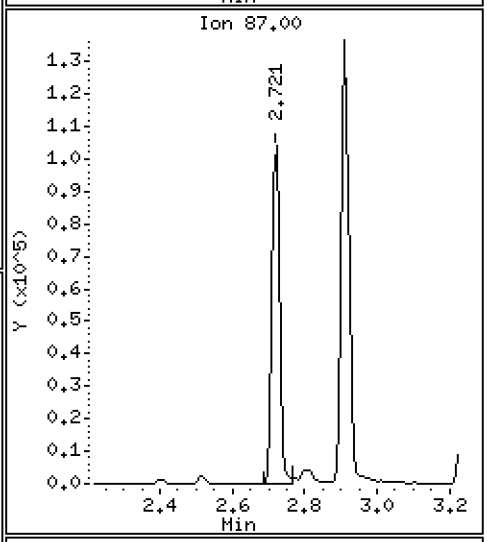
Column phase: DB-VRX Column diameter: 0.25

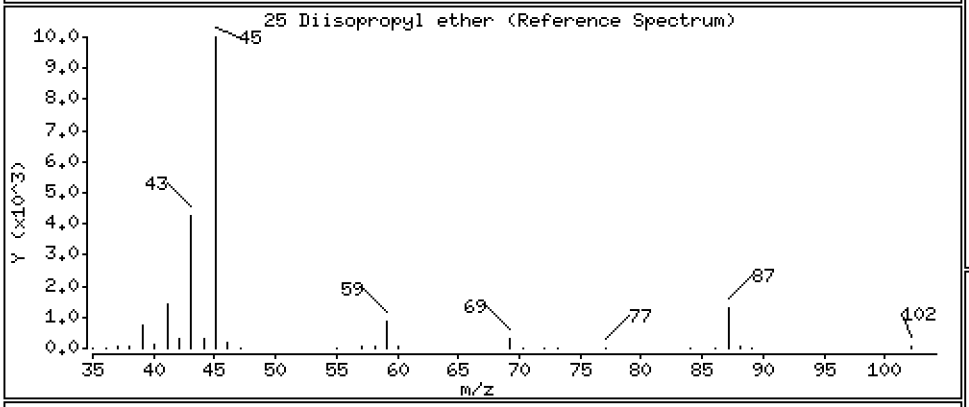
25 Diisopropyl ether Concentration: 18.8231 ug/L

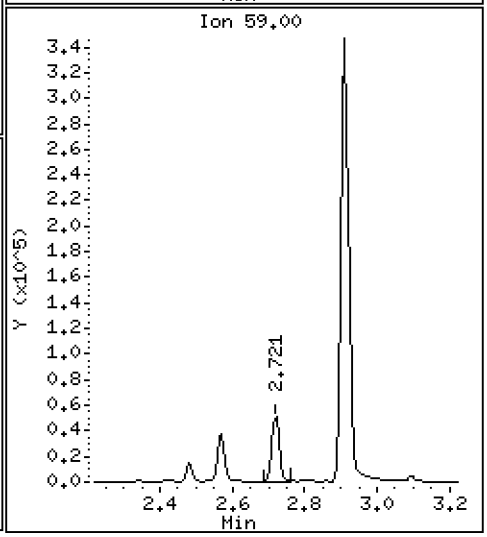


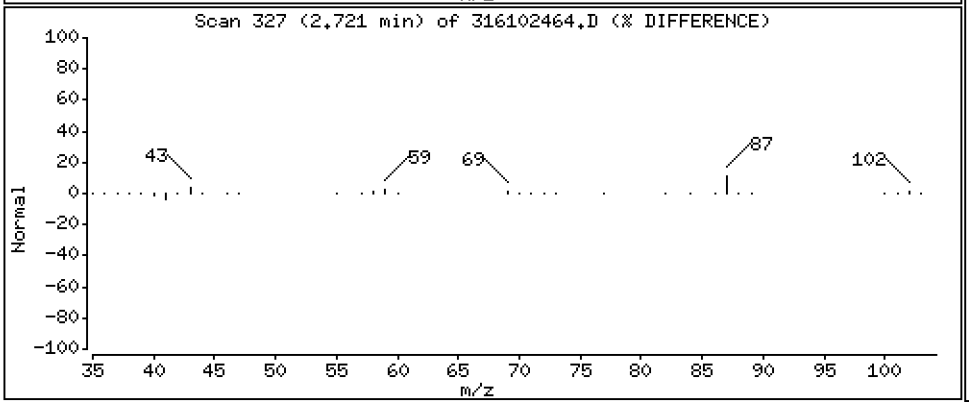












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 38

Date : 25-OCT-2016 03:26

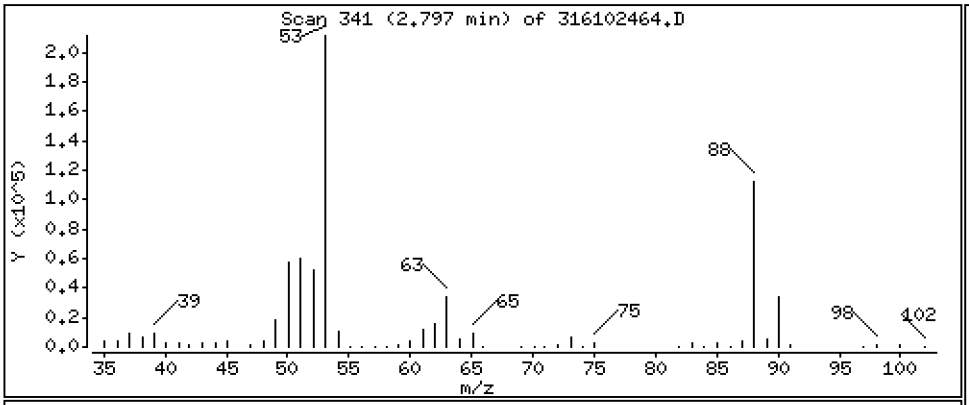
Client ID: LCS for HBN 174041 Instrument: ms03.i

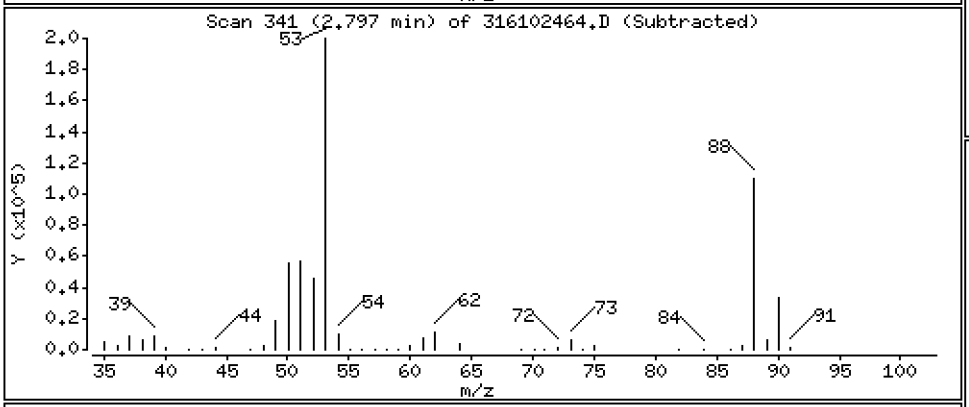
Sample Info: 2428716;;1;3;;LCS;1;

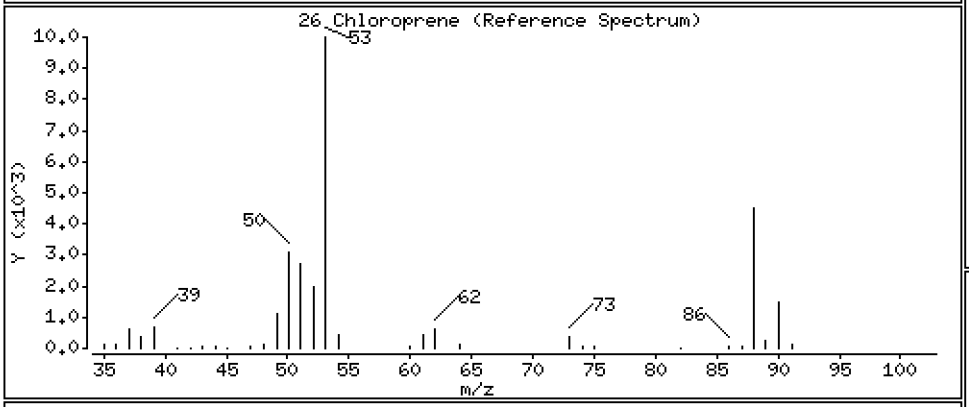
Purge Volume: 5.0 Operator: CJG

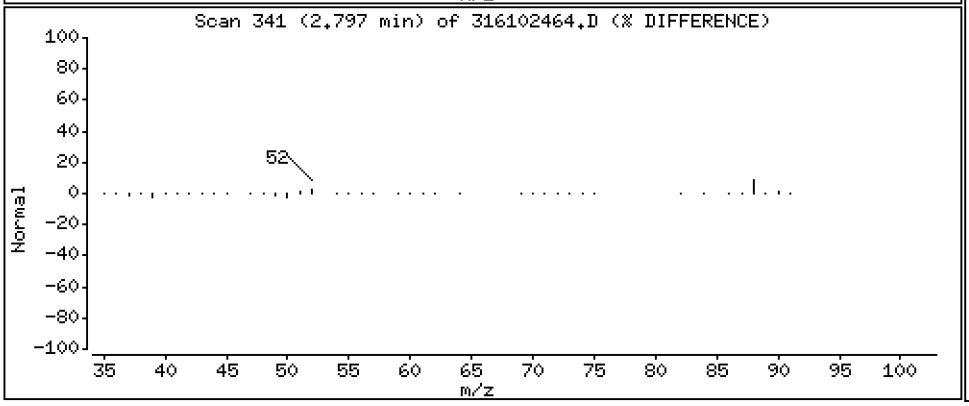
Column phase: DB-VRX Column diameter: 0.25

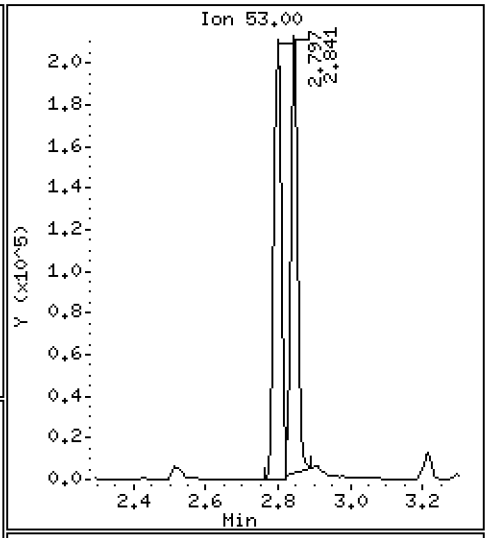
26 Chloroprene Concentration: 20.1785 ug/L

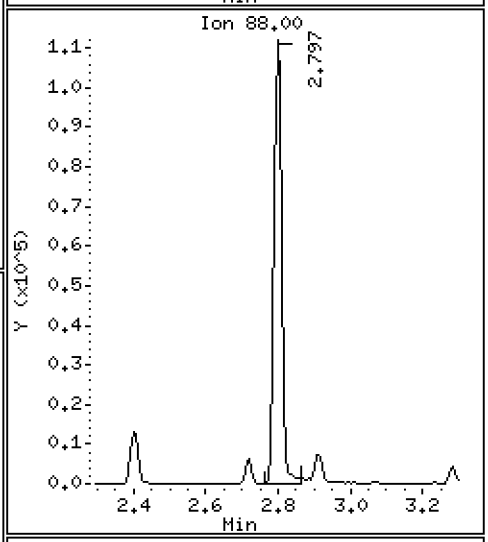


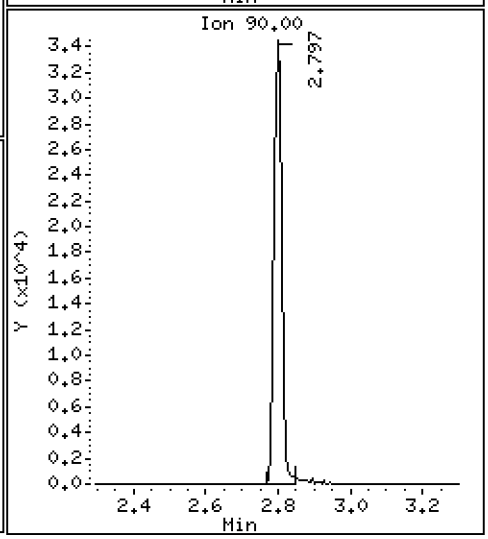












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 39

Date : 25-OCT-2016 03:26

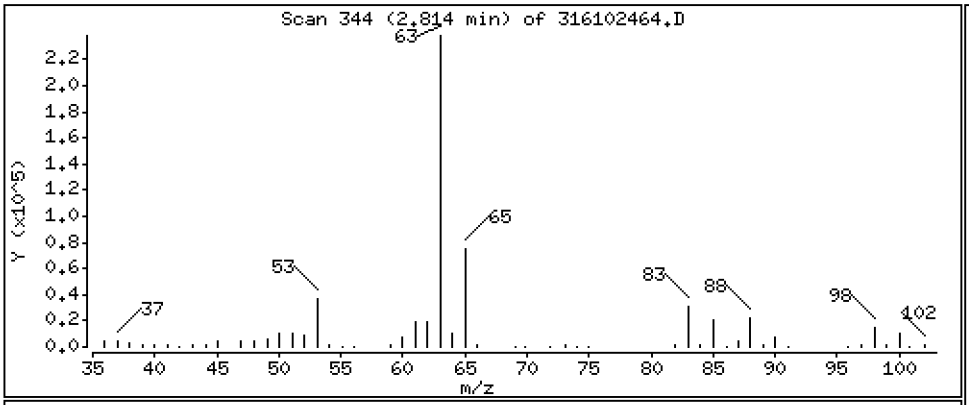
Client ID: LCS for HBN 174041 Instrument: ms03.i

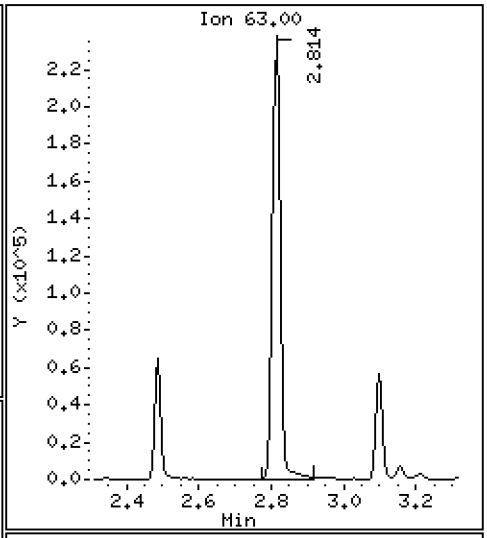
Sample Info: 2428716;;1;3;;LCS;1;

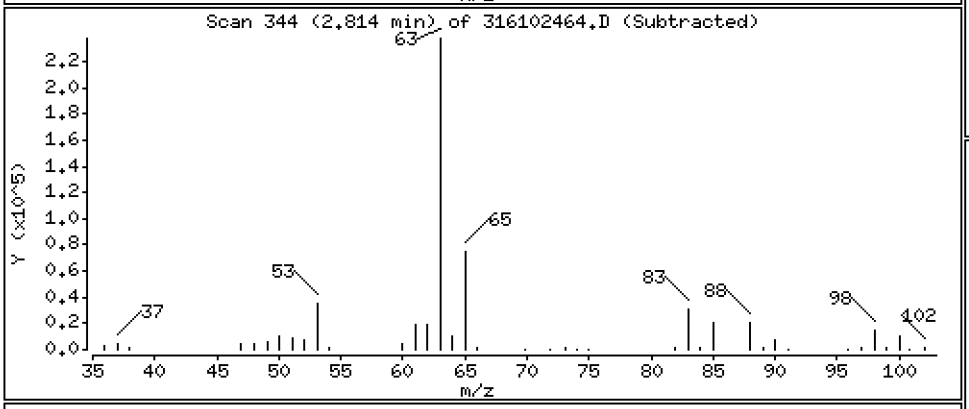
Purge Volume: 5.0 Operator: CJG

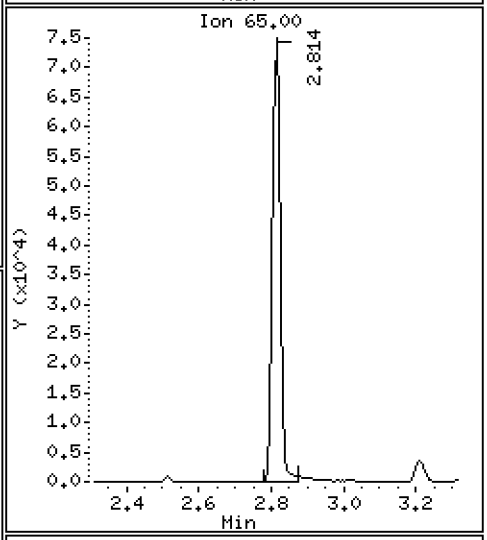
Column phase: DB-VRX Column diameter: 0.25

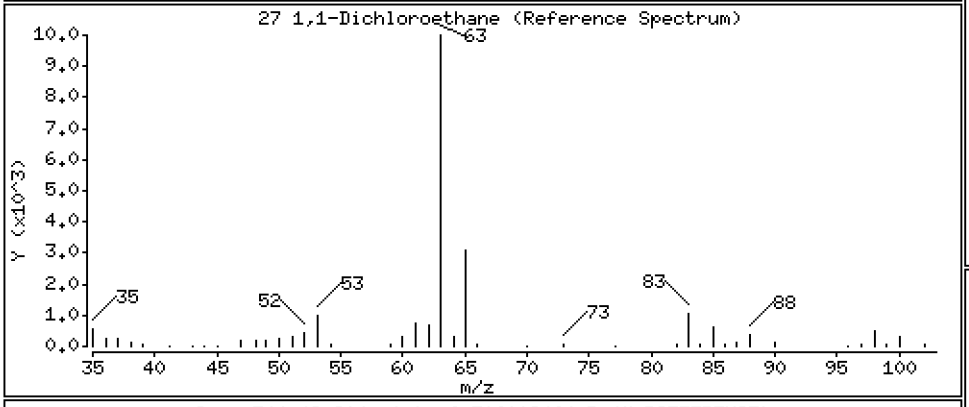
27 1,1-Dichloroethane Concentration: 18.5318 ug/L

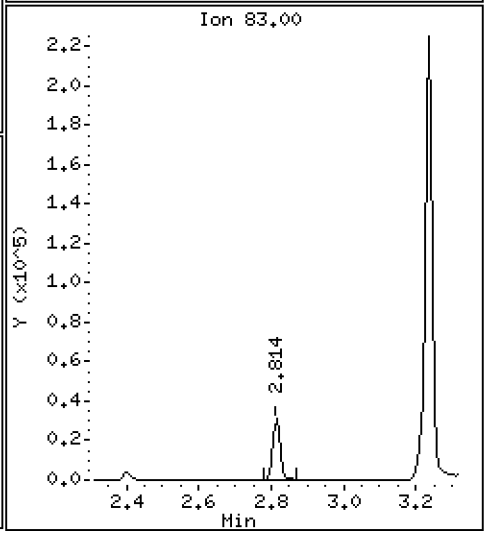


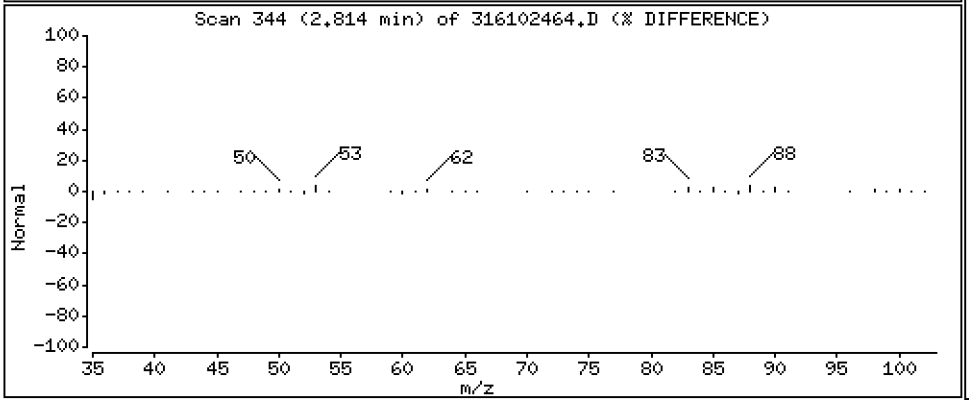












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 40

Date : 25-OCT-2016 03:26

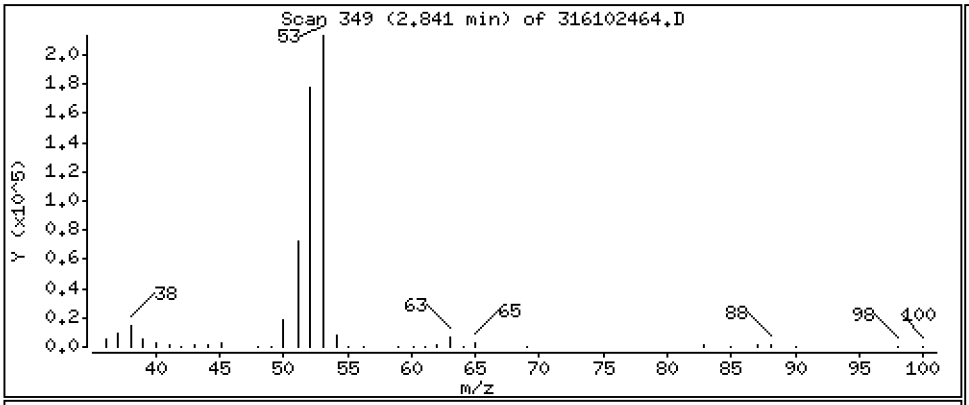
Client ID: LCS for HBN 174041 Instrument: ms03.i

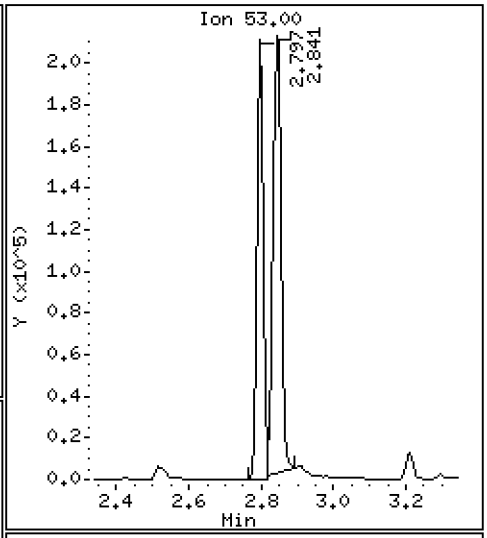
Sample Info: 2428716;;1;3;;LCS;1;

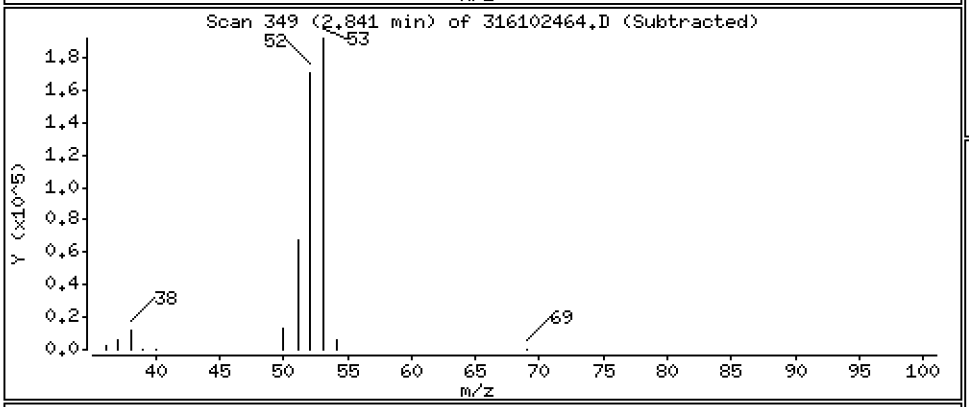
Purge Volume: 5.0 Operator: CJG

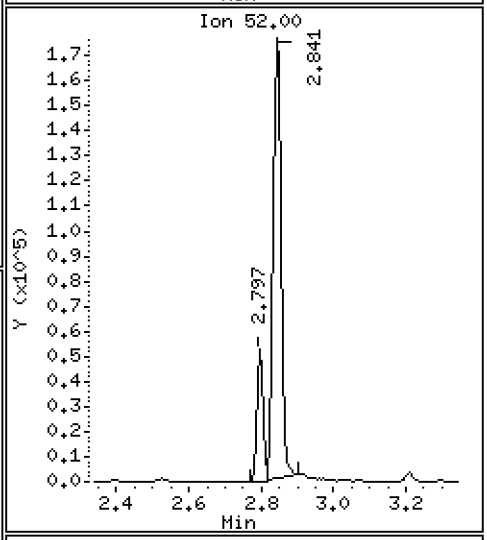
Column phase: DB-VRX Column diameter: 0.25

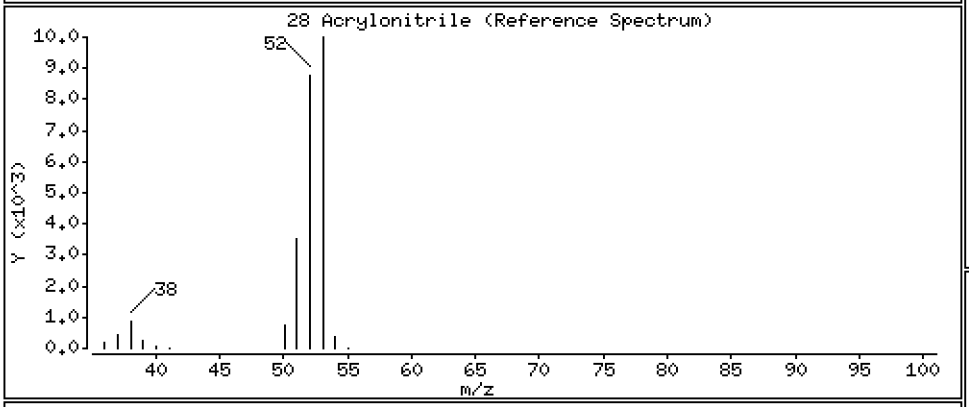
28 Acrylonitrile Concentration: 92.5228 ug/L

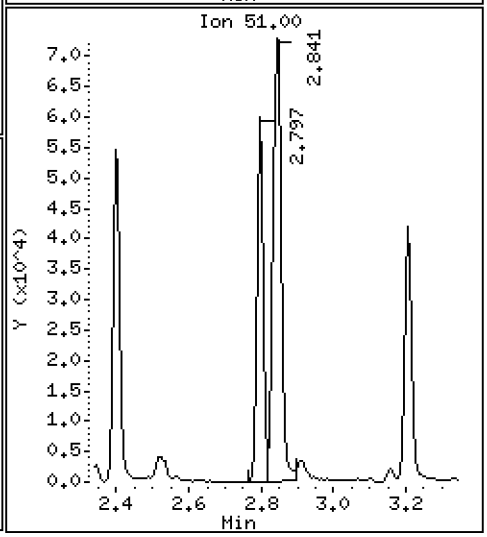


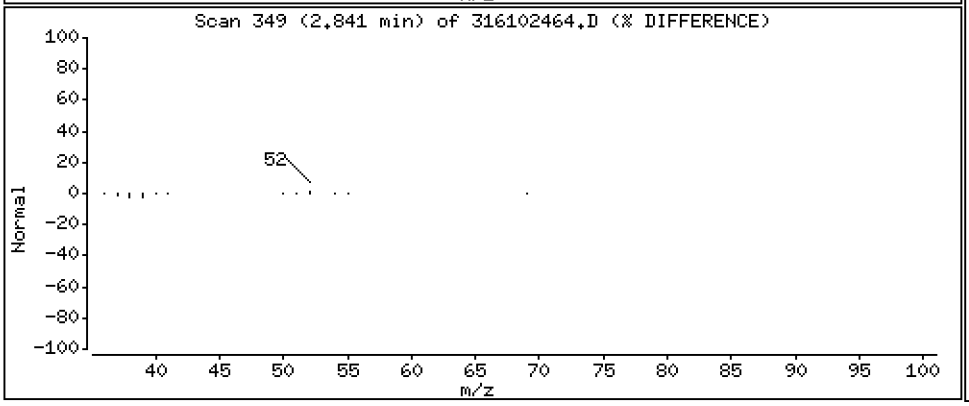












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 41

Date : 25-OCT-2016 03:26

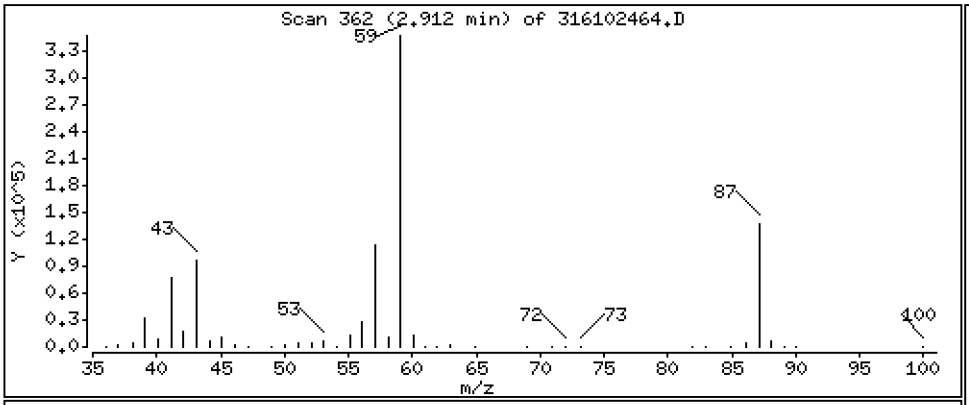
Client ID: LCS for HBN 174041 Instrument: ms03.i

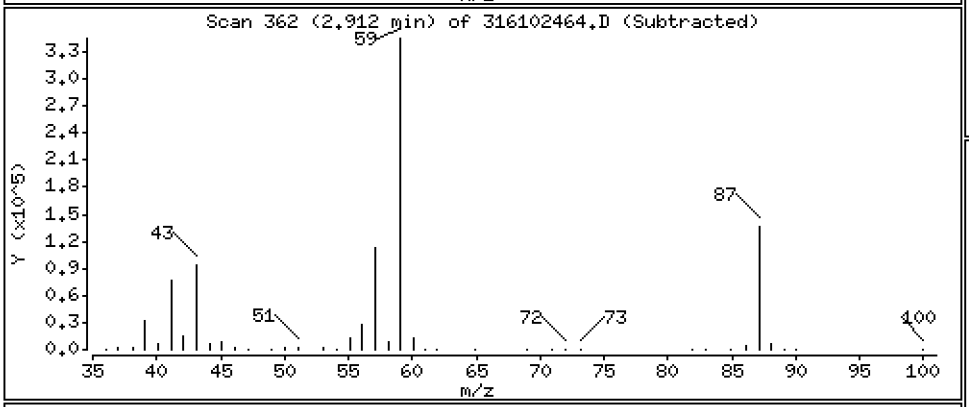
Sample Info: 2428716;;1;3;;LCS;1;

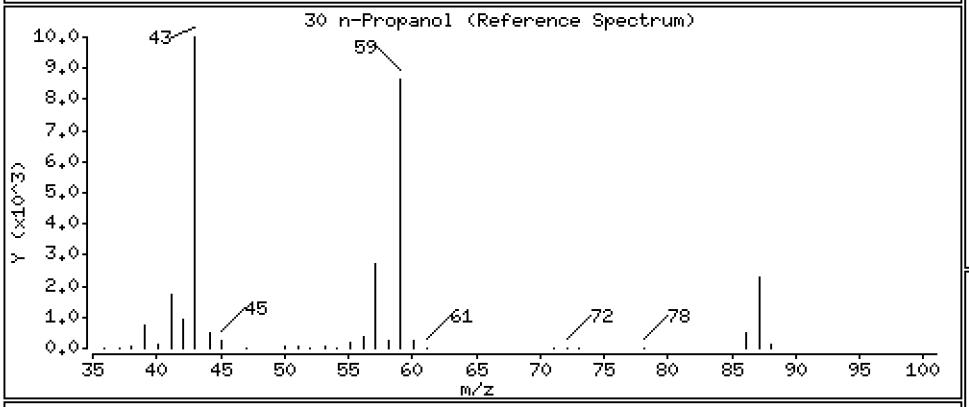
Purge Volume: 5.0 Operator: CJG

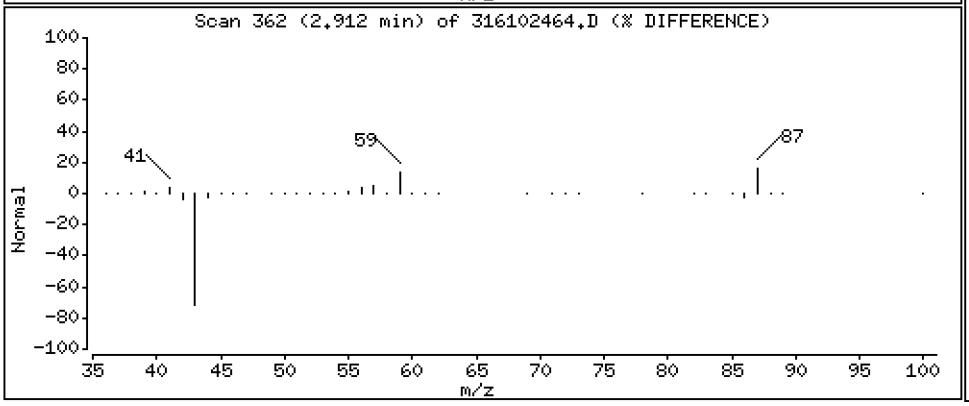
Column phase: DB-VRX Column diameter: 0.25

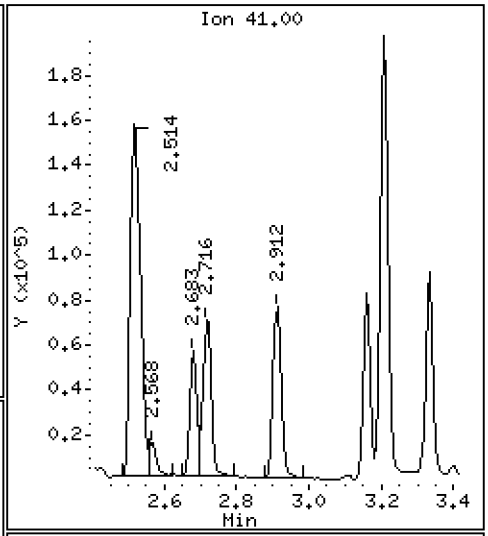
30 n-Propanol Concentration: 203.656 ug/L

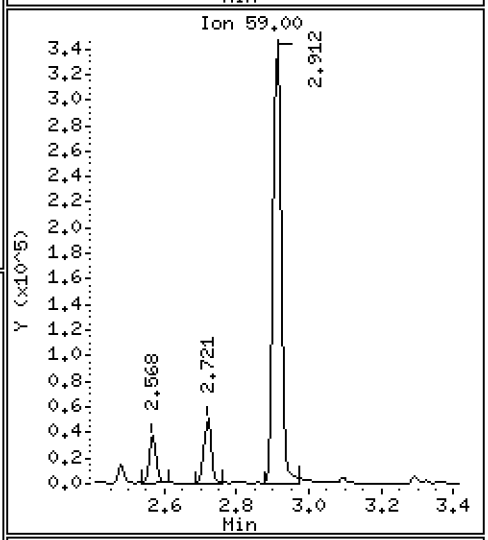


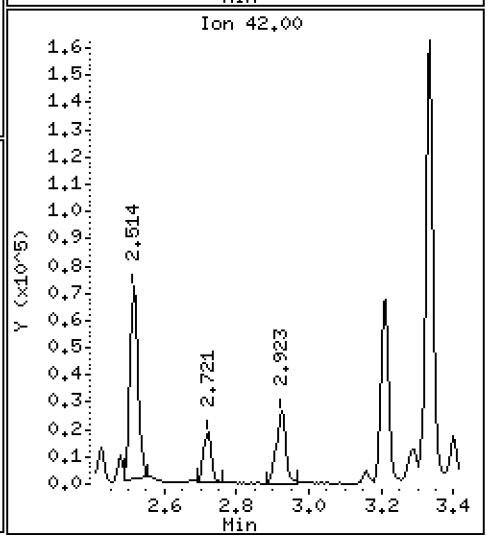












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 42

Date : 25-OCT-2016 03:26

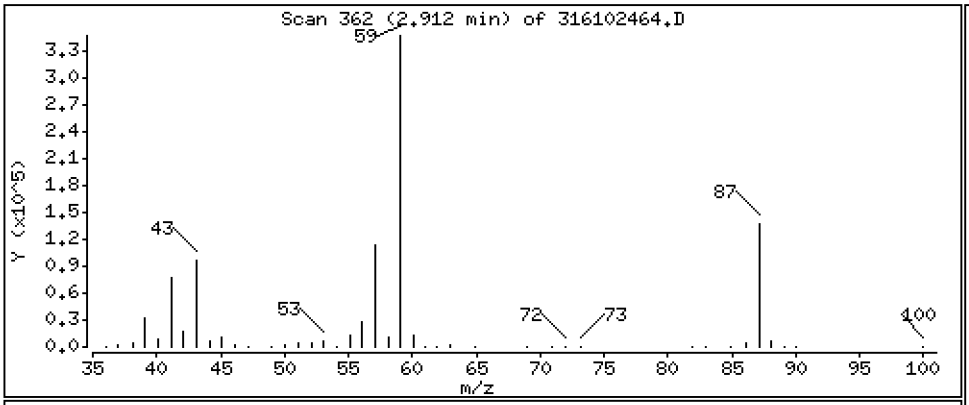
Client ID: LCS for HBN 174041 Instrument: ms03.i

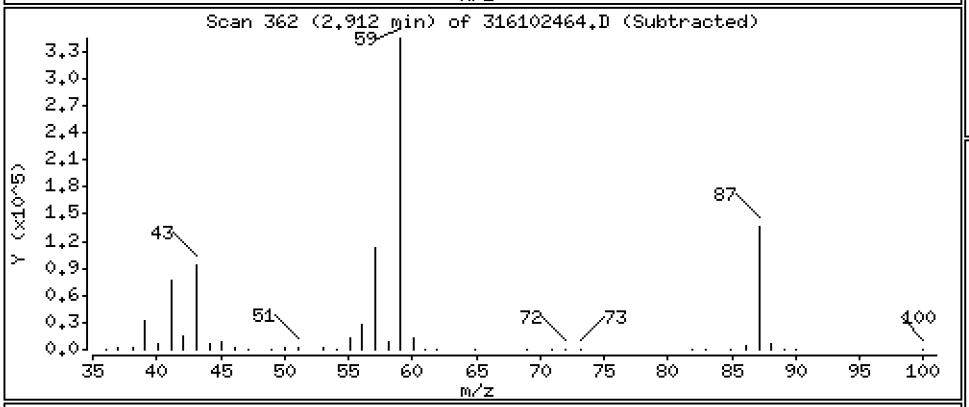
Sample Info: 2428716;;1;3;;LCS;1;

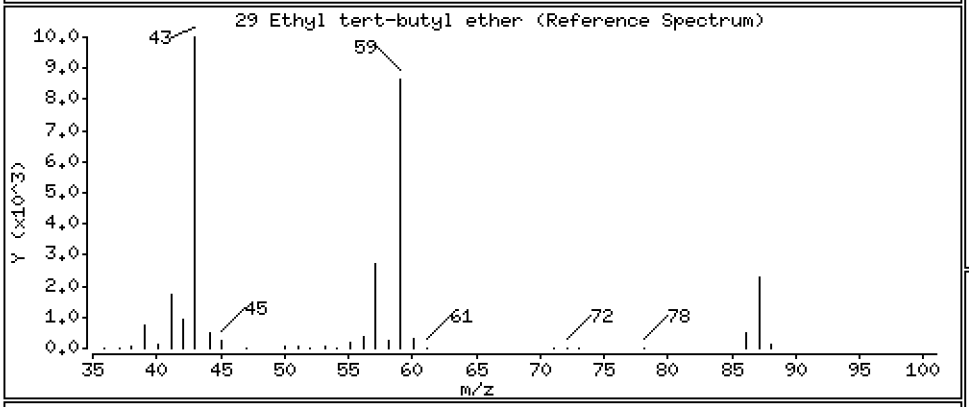
Purge Volume: 5.0 Operator: CJG

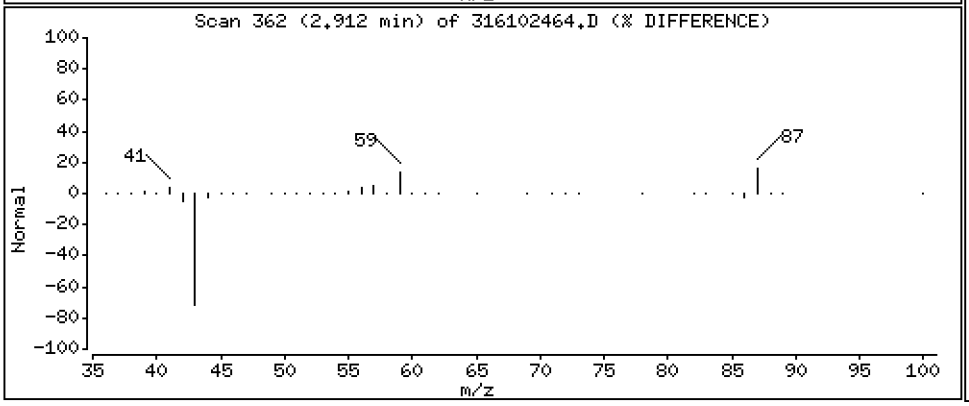
Column phase: DB-VRX Column diameter: 0.25

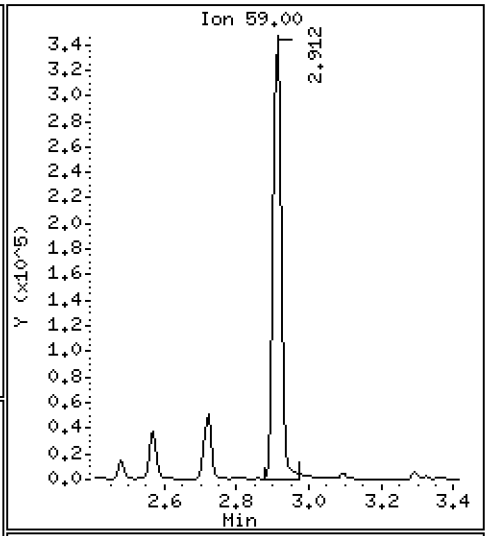
29 Ethyl tert-butyl ether Concentration: 18.5667 ug/L

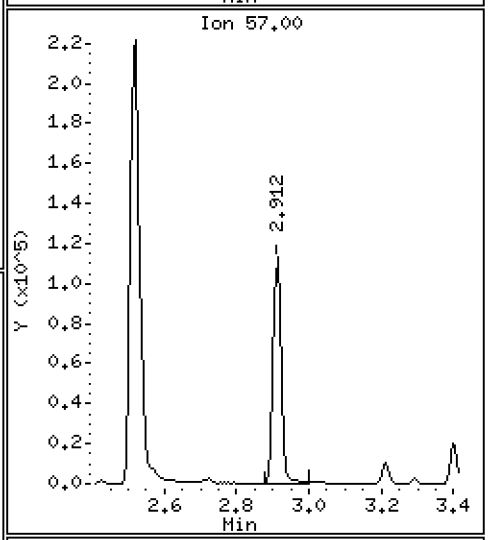


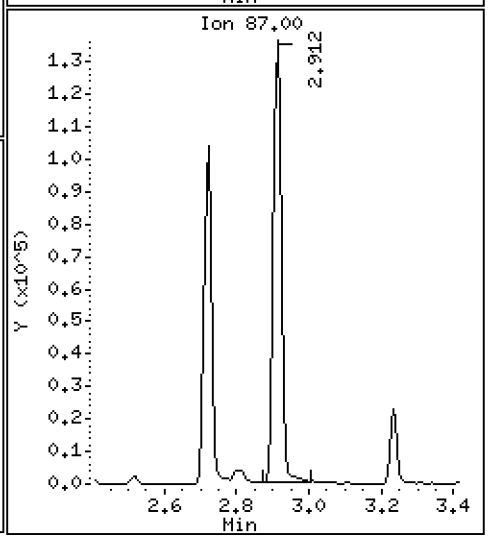












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 43

Date : 25-OCT-2016 03:26

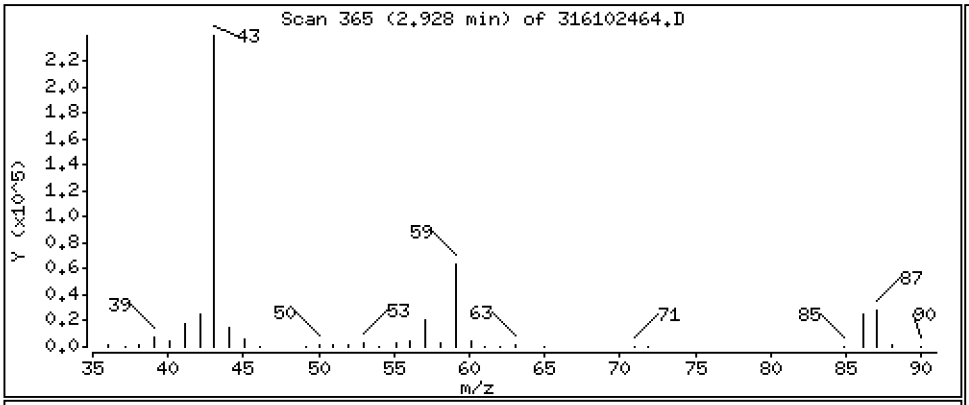
Client ID: LCS for HBN 174041 Instrument: ms03.i

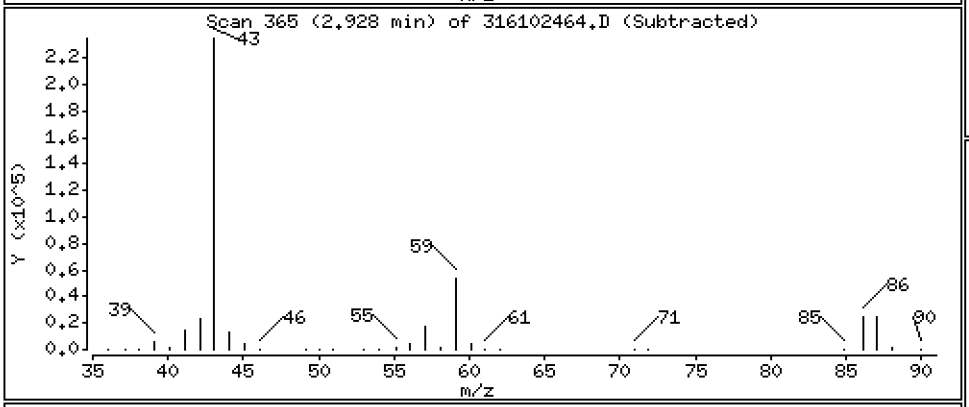
Sample Info: 2428716;;1;3;;LCS;1;

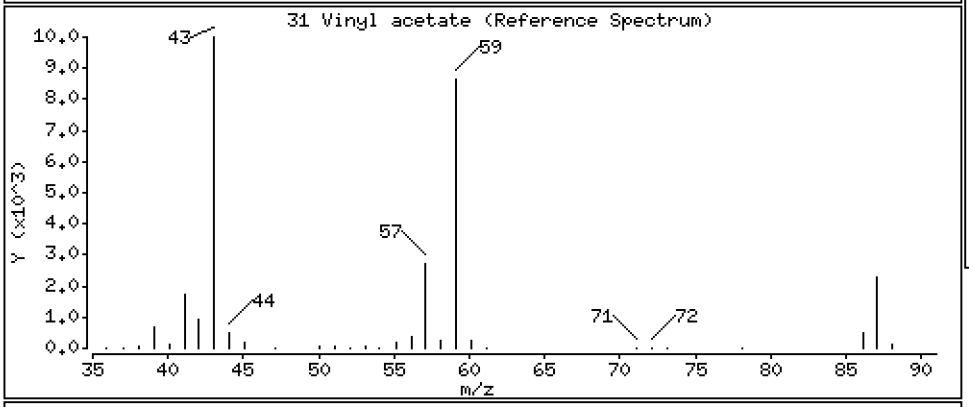
Purge Volume: 5.0 Operator: CJG

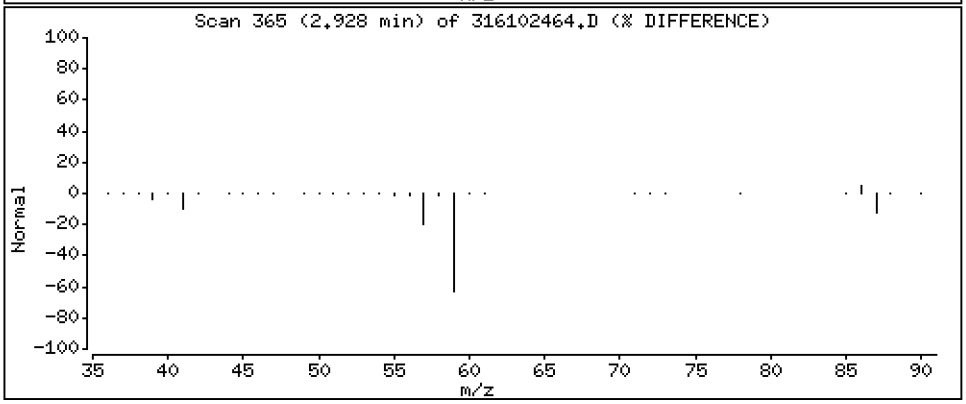
Column phase: DB-VRX Column diameter: 0.25

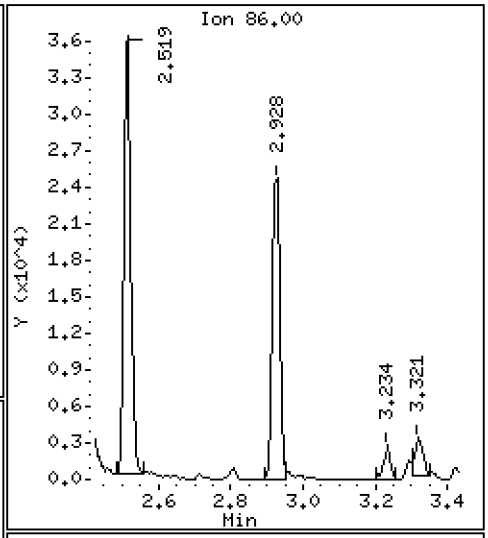
31 Vinyl acetate Concentration: 16.3116 ug/L

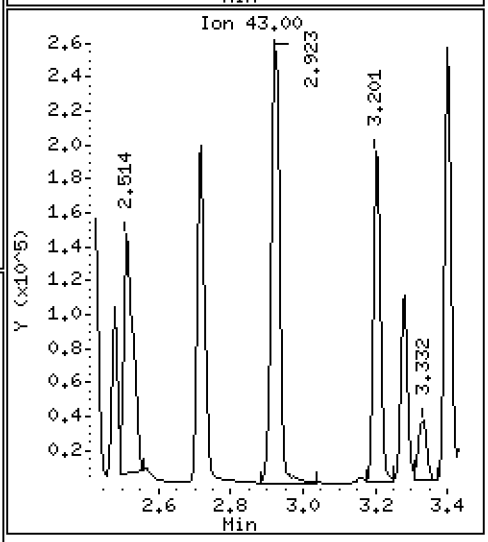












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 44

Date : 25-OCT-2016 03:26

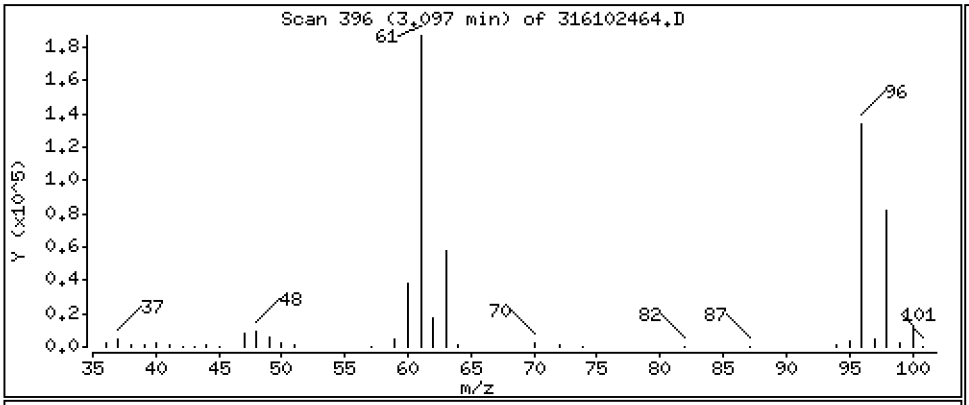
Client ID: LCS for HBN 174041 Instrument: ms03.i

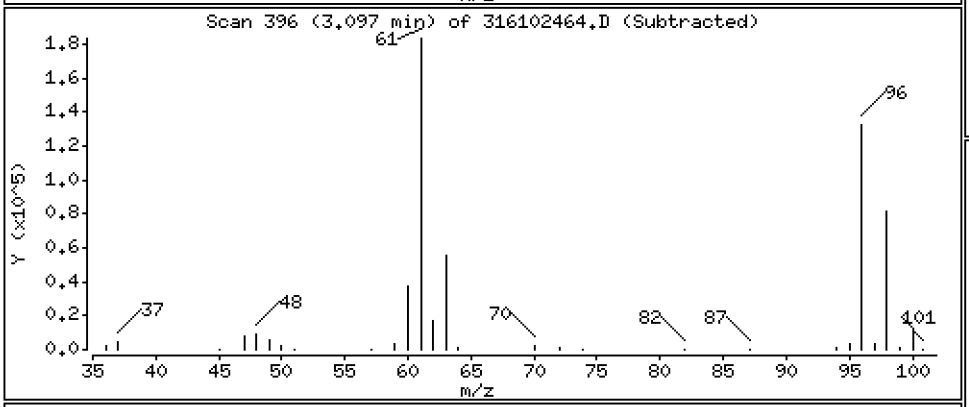
Sample Info: 2428716;;1;3;;LCS;1;

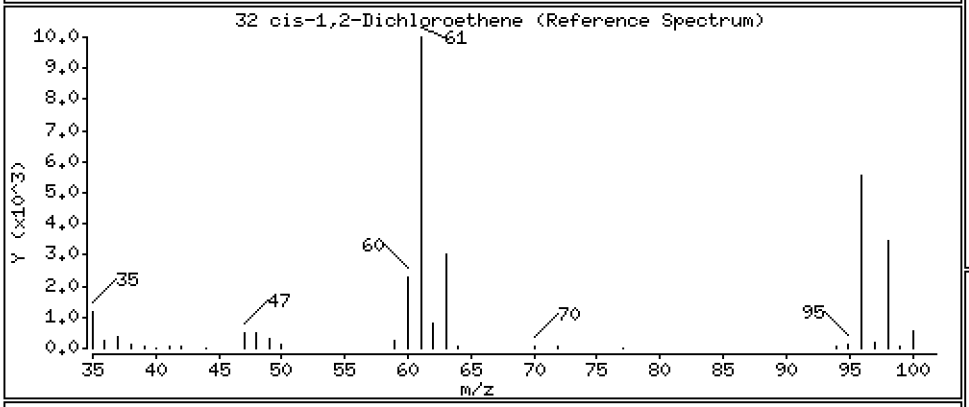
Purge Volume: 5.0 Operator: CJG

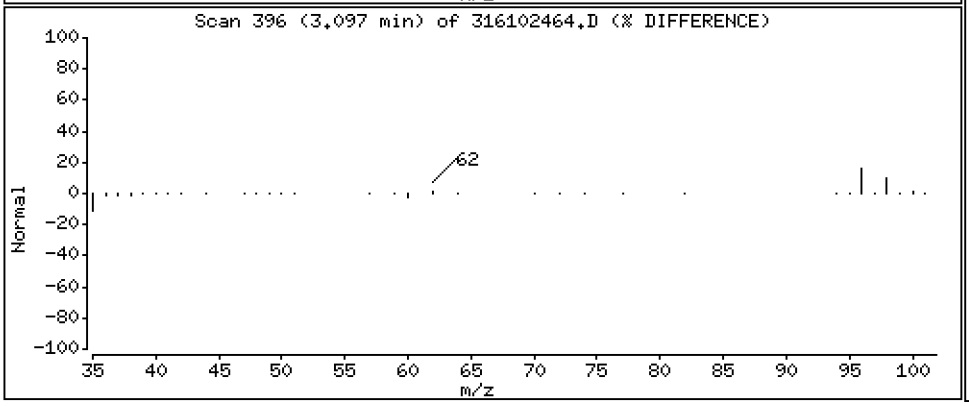
Column phase: DB-VRX Column diameter: 0.25

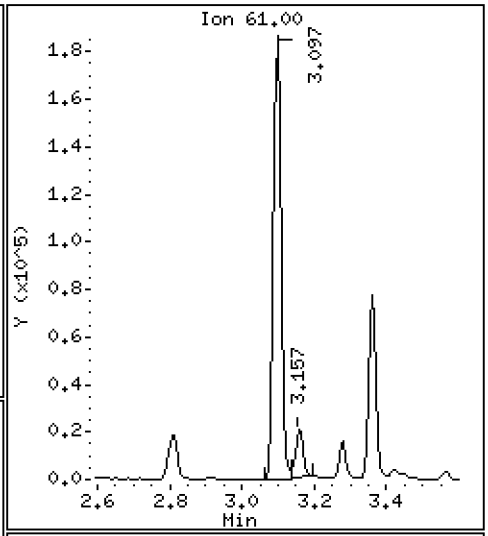
32 cis-1,2-Dichloroethene Concentration: 18.1745 ug/L

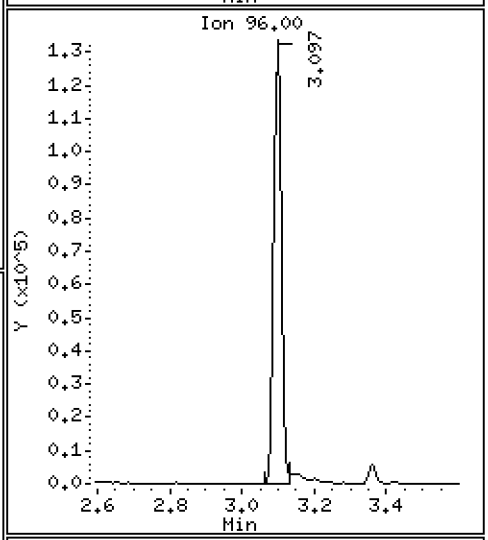


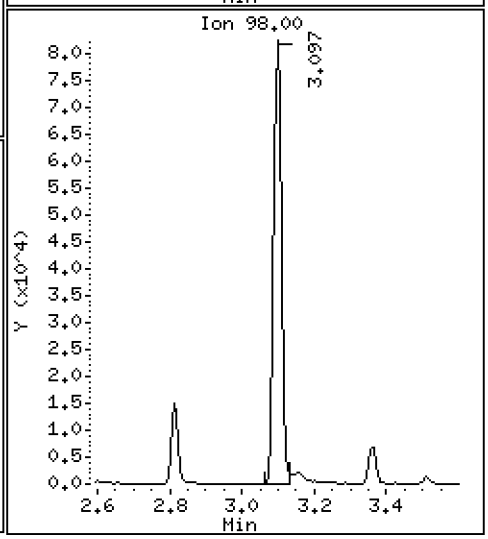












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 45

Date : 25-OCT-2016 03:26

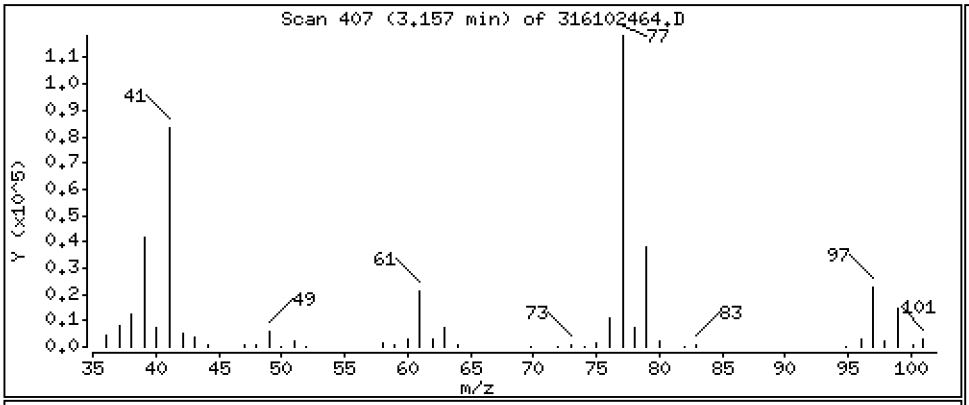
Client ID: LCS for HBN 174041 Instrument: ms03.i

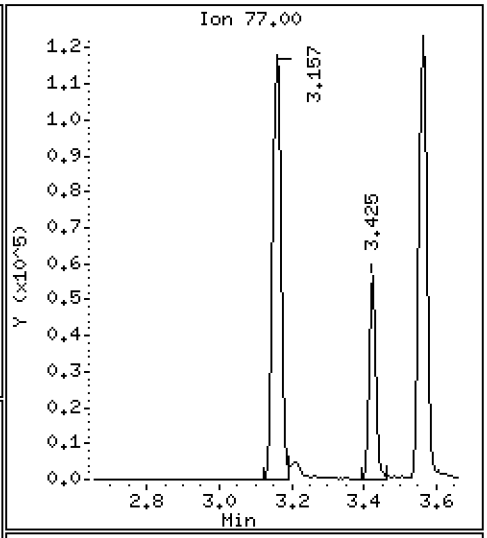
Sample Info: 2428716;;1;3;;LCS;1;

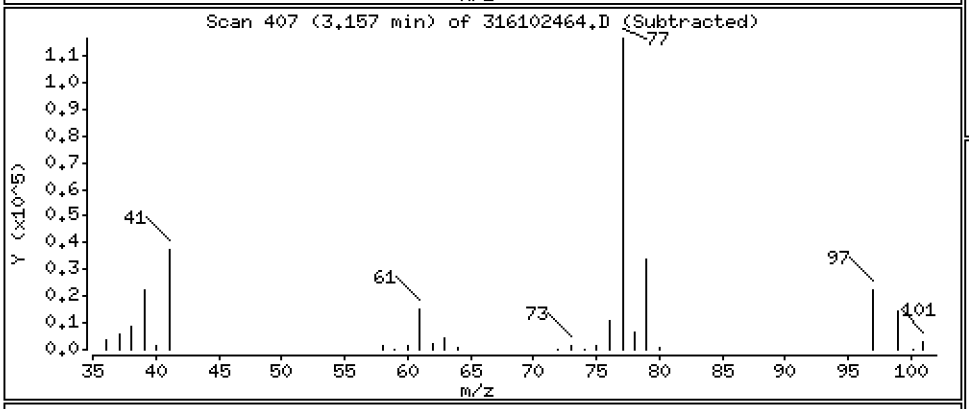
Purge Volume: 5.0 Operator: CJG

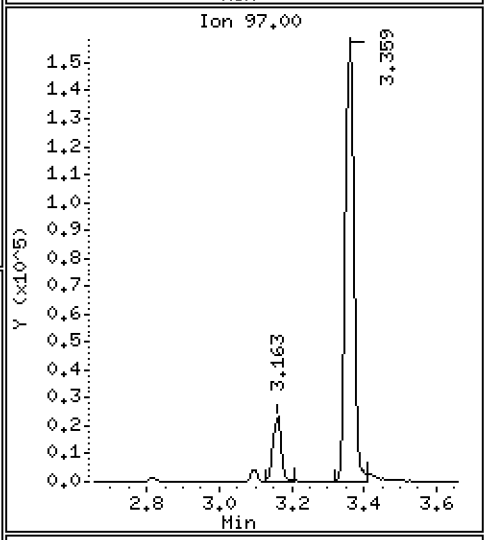
Column phase: DB-VRX Column diameter: 0.25

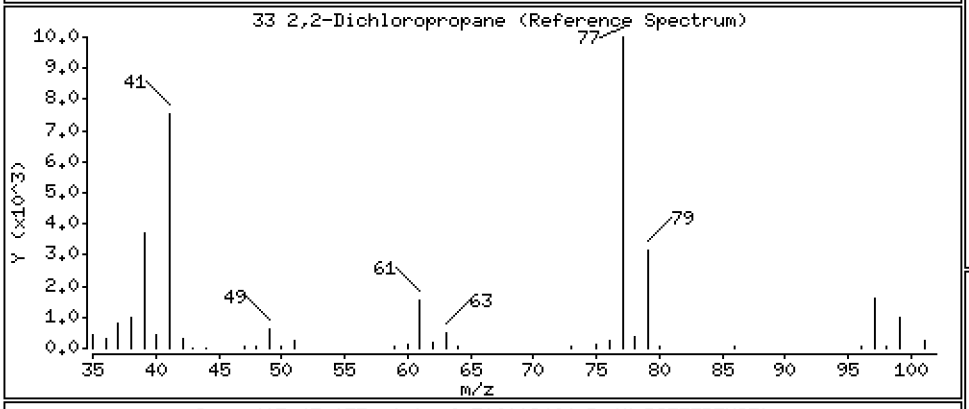
33 2,2-Dichloropropane Concentration: 16.1713 ug/L

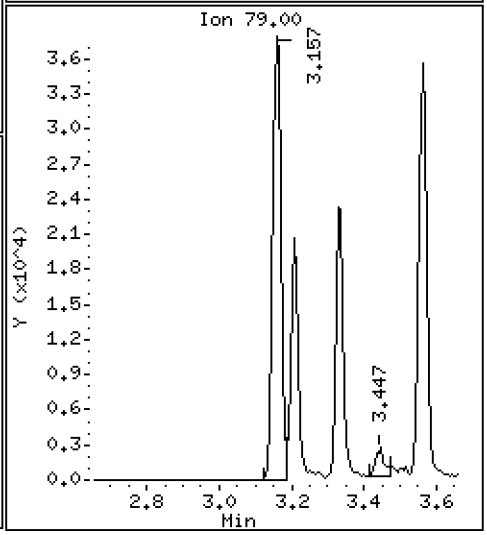


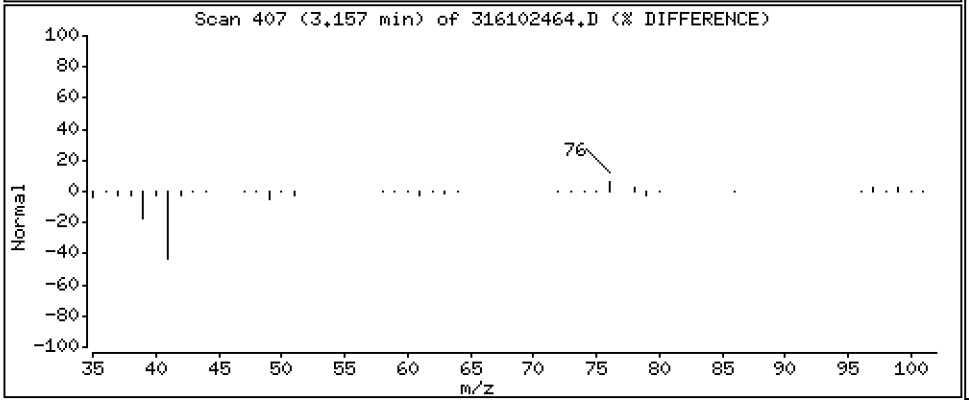












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 46

Date : 25-OCT-2016 03:26

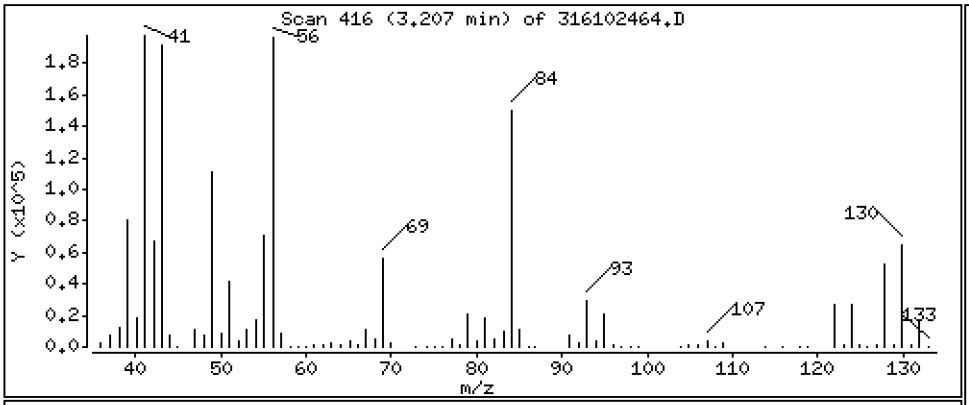
Client ID: LCS for HBN 174041 Instrument: ms03.i

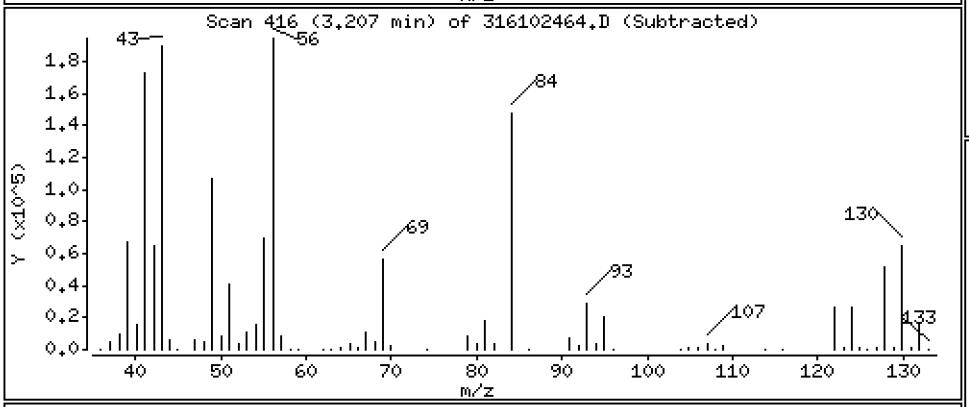
Sample Info: 2428716;;1;3;;LCS;1;

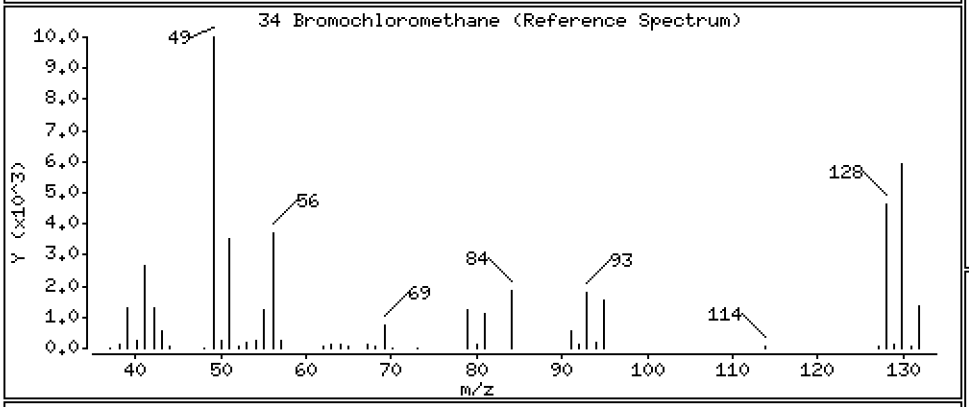
Purge Volume: 5.0 Operator: CJG

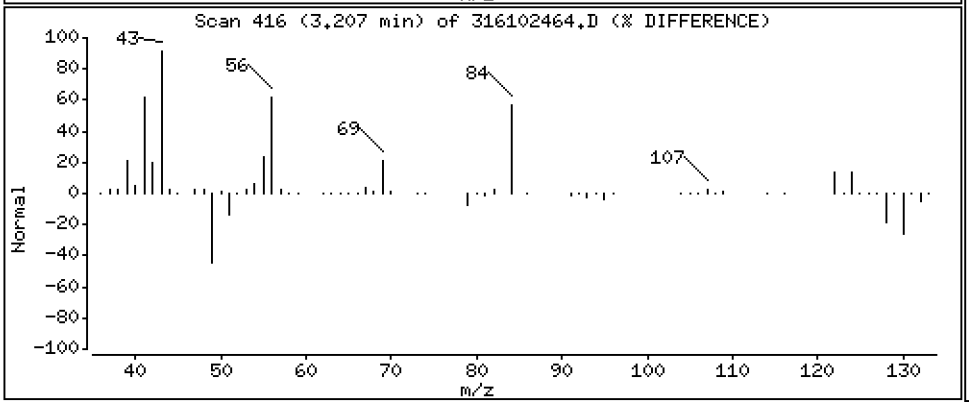
Column phase: DB-VRX Column diameter: 0.25

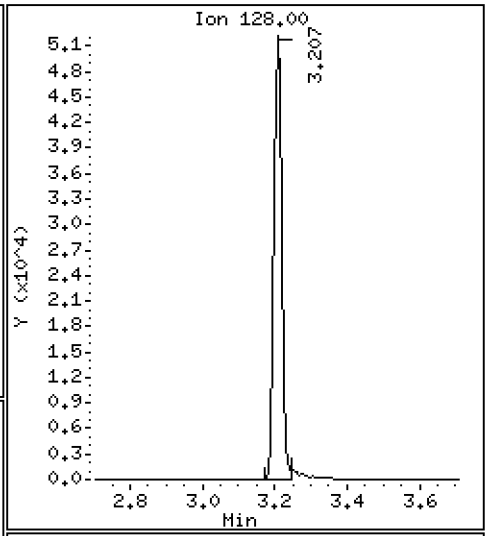
34 Bromochloromethane Concentration: 18.5457 ug/L

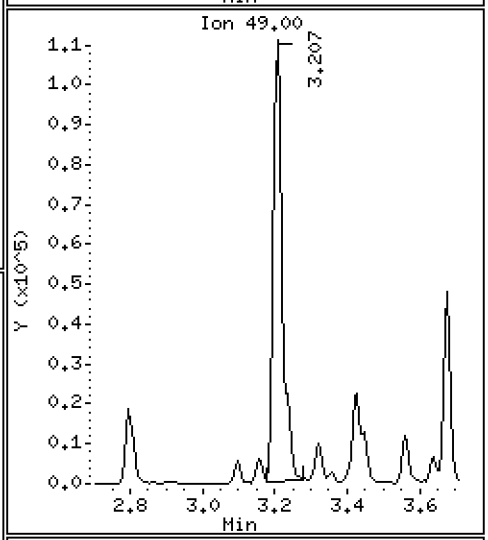


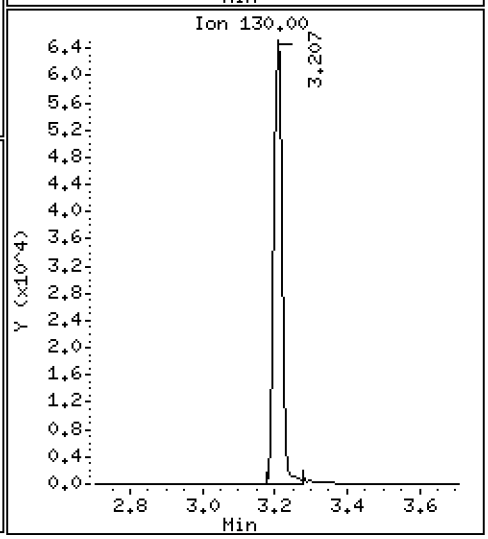












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 47

Date : 25-OCT-2016 03:26

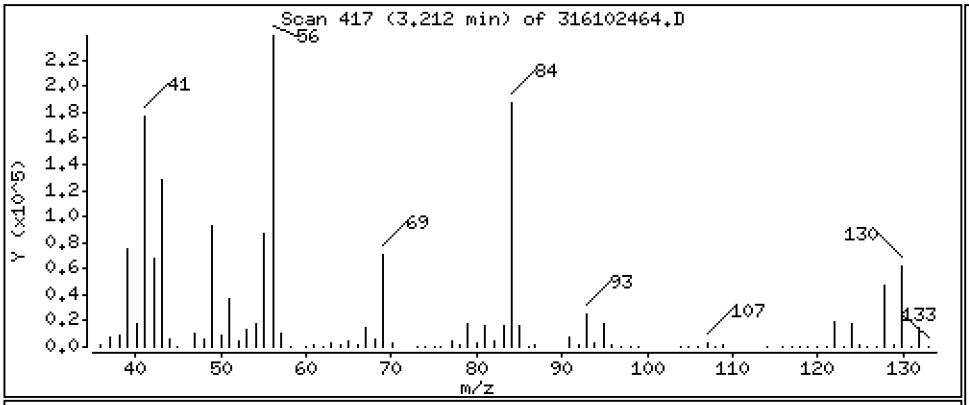
Client ID: LCS for HBN 174041 Instrument: ms03.i

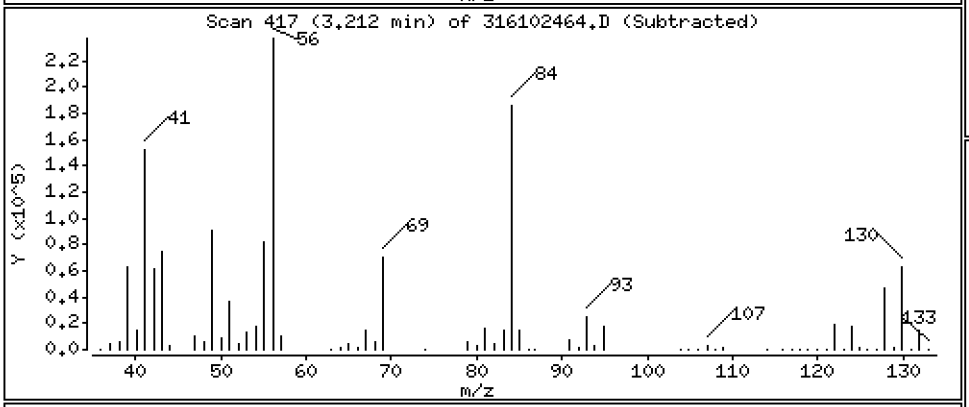
Sample Info: 2428716;;1;3;;LCS;1;

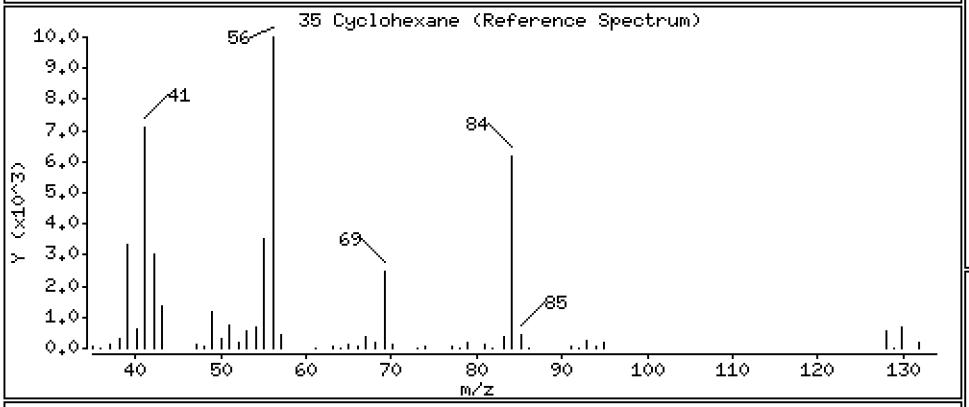
Purge Volume: 5.0 Operator: CJG

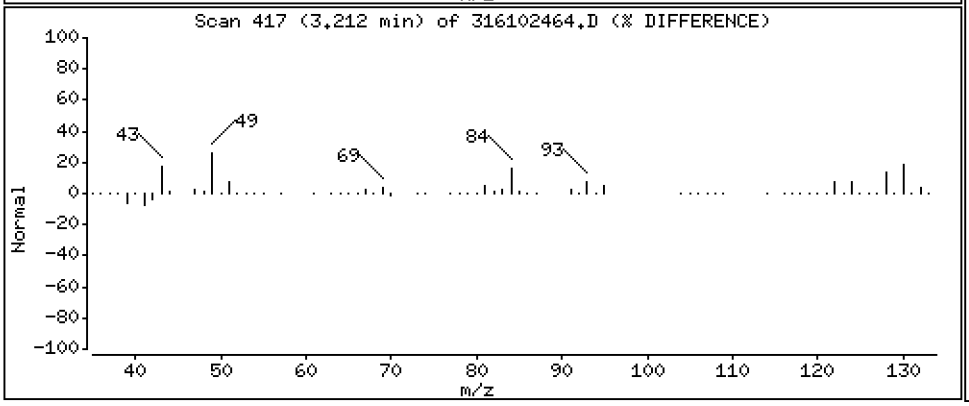
Column phase: DB-VRX Column diameter: 0.25

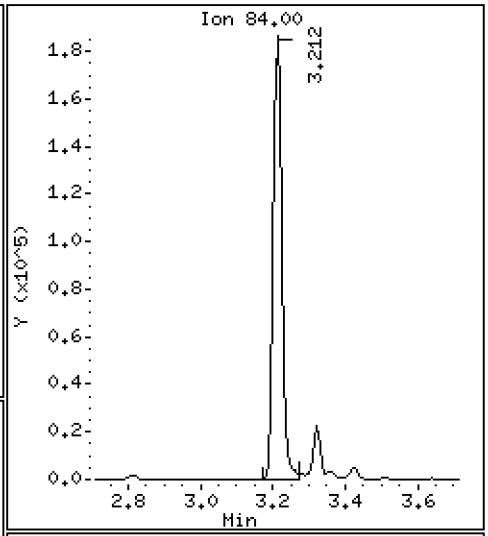
35 Cyclohexane Concentration: 19.3069 ug/L

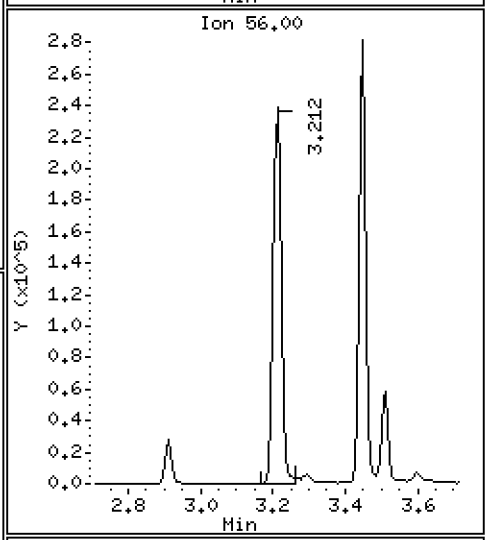


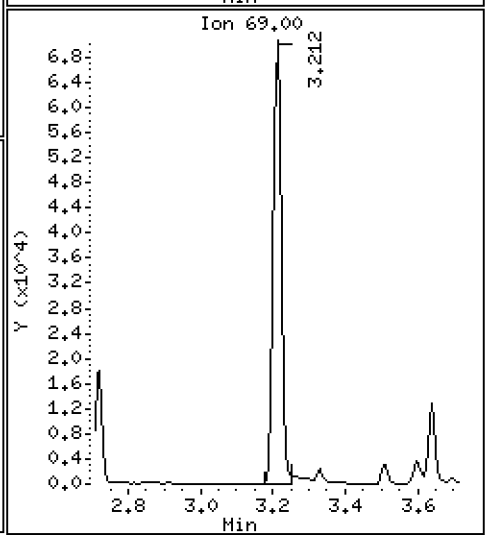












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 48

Date : 25-OCT-2016 03:26

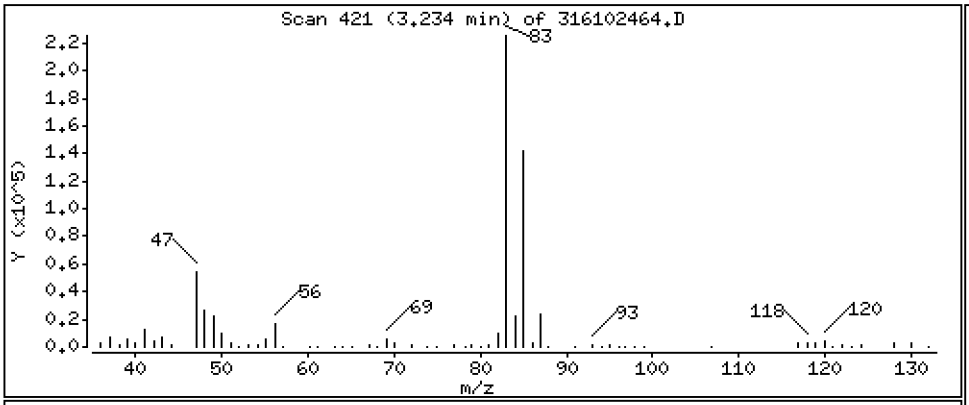
Client ID: LCS for HBN 174041 Instrument: ms03.i

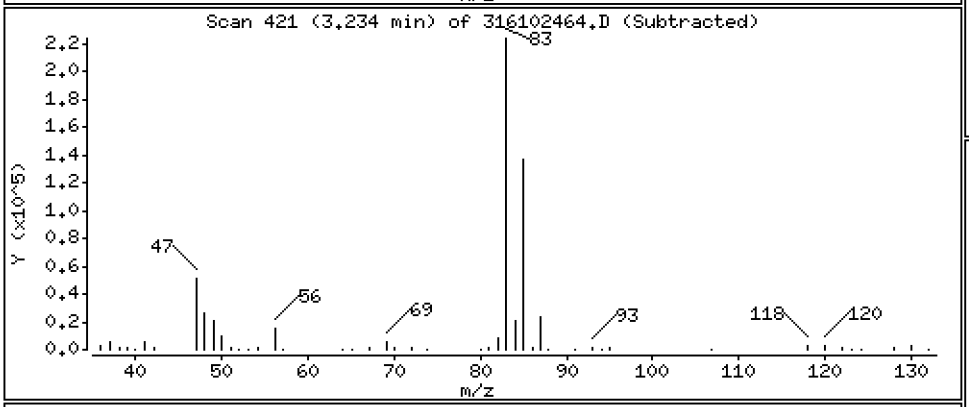
Sample Info: 2428716;;1;3;;LCS;1;

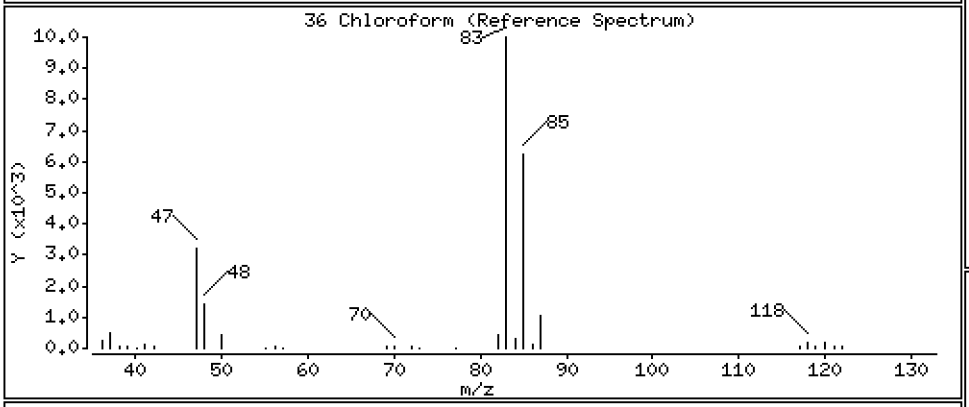
Purge Volume: 5.0 Operator: CJG

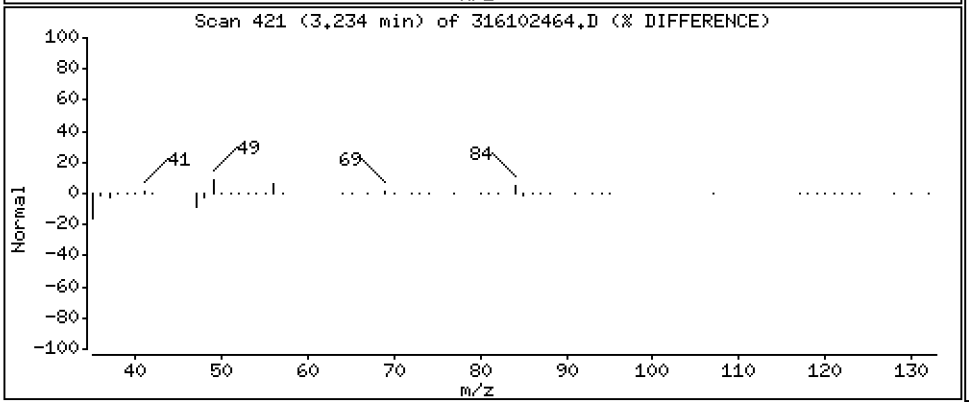
Column phase: DB-VRX Column diameter: 0.25

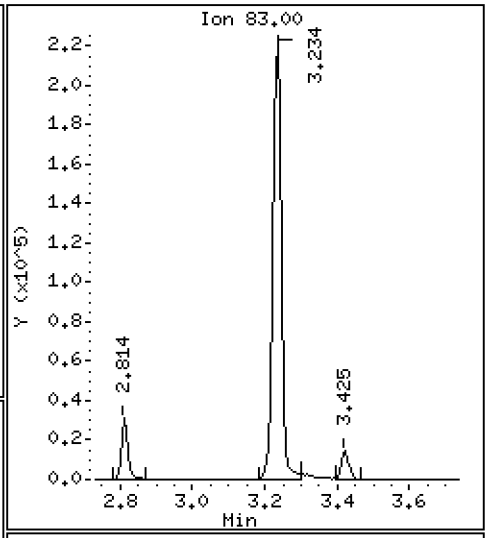
36 Chloroform Concentration: 19.4891 ug/L

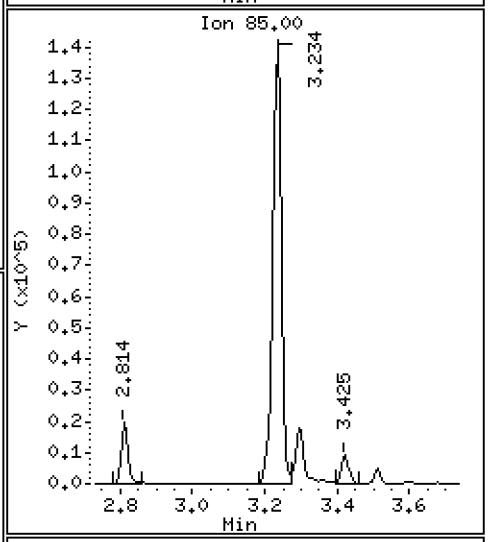


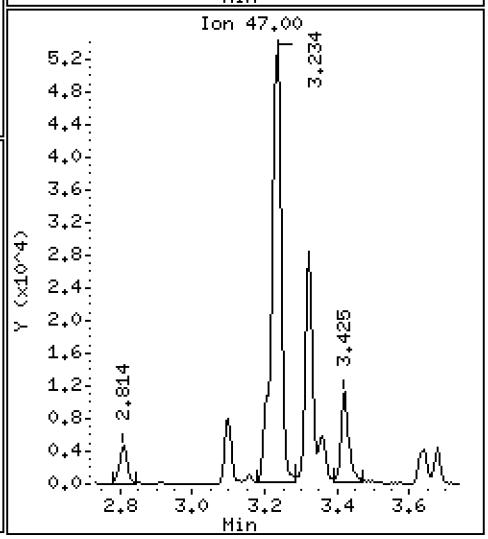












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 49

Date : 25-OCT-2016 03:26

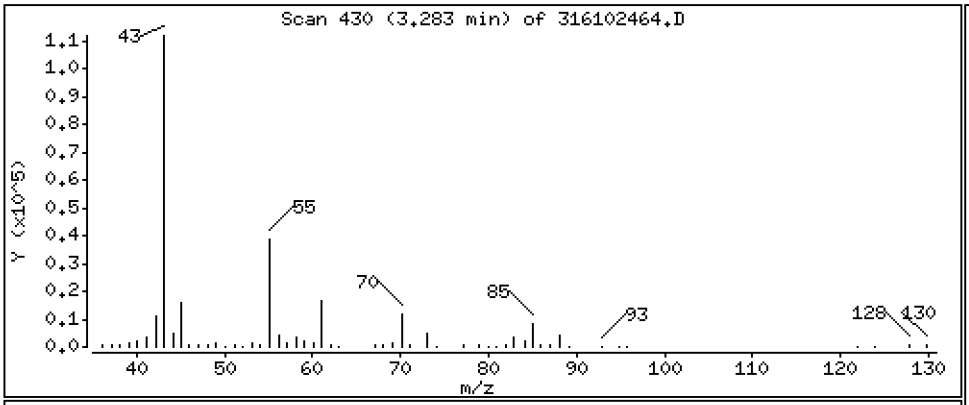
Client ID: LCS for HBN 174041 Instrument: ms03.i

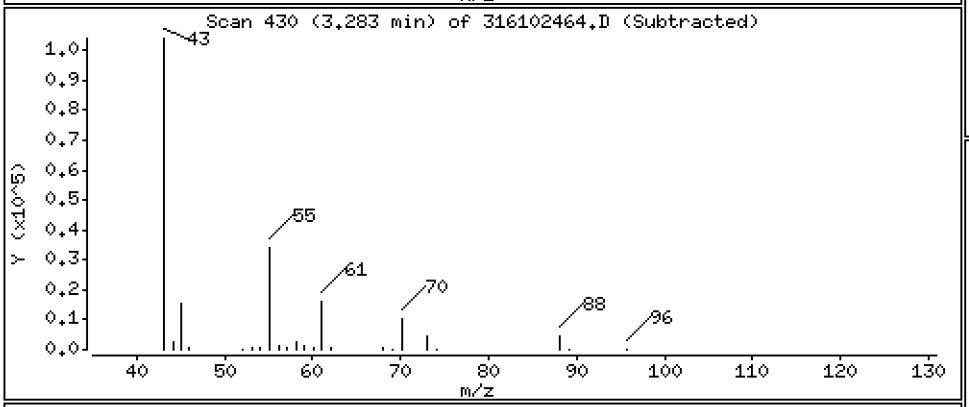
Sample Info: 2428716;;1;3;;LCS;1;

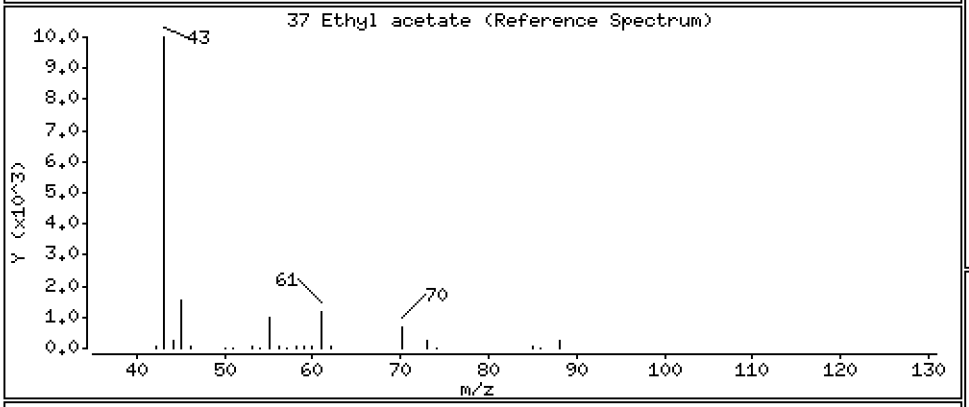
Purge Volume: 5.0 Operator: CJG

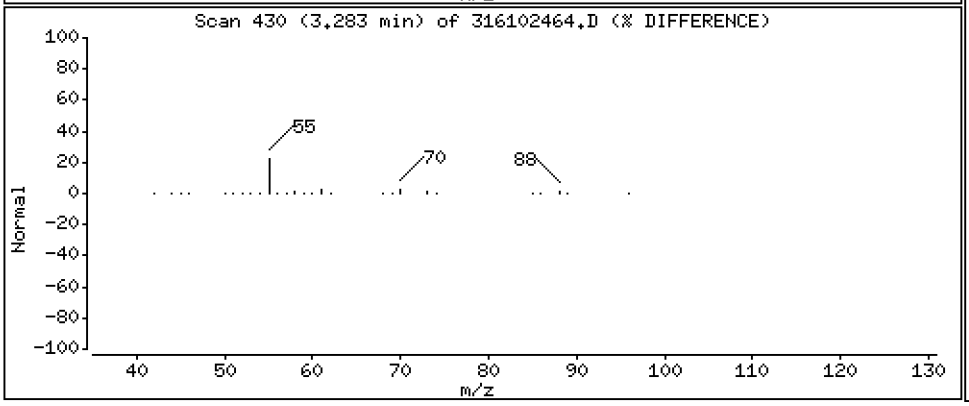
Column phase: DB-VRX Column diameter: 0.25

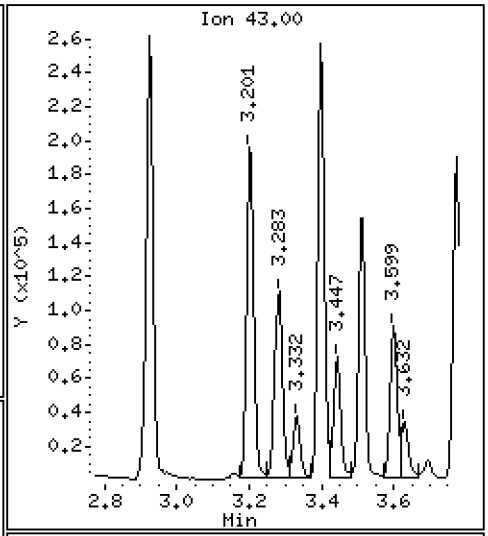
37 Ethyl acetate Concentration: 19.7207 ug/L

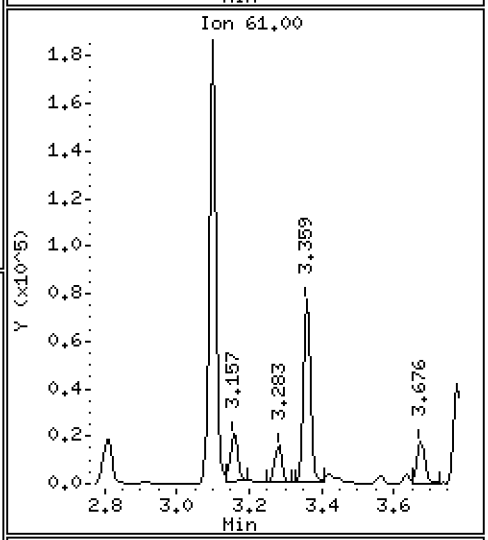


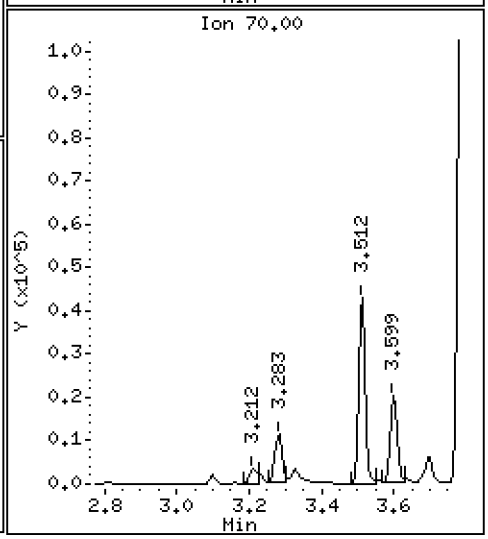












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 50

Date : 25-OCT-2016 03:26

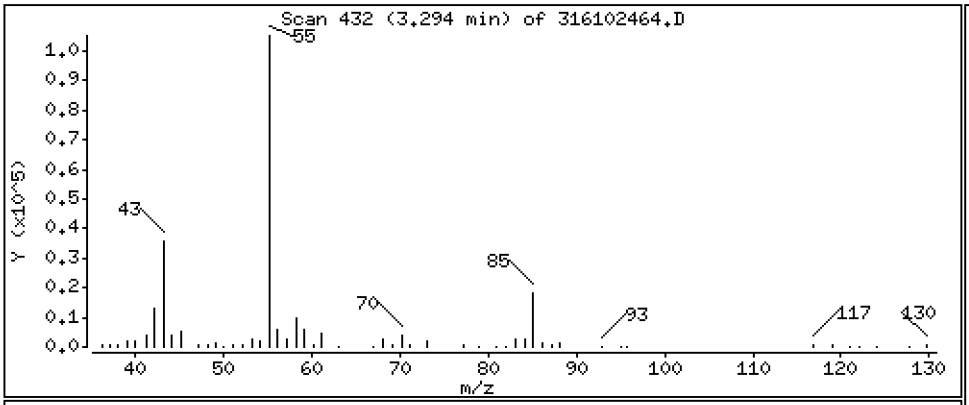
Client ID: LCS for HBN 174041 Instrument: ms03.i

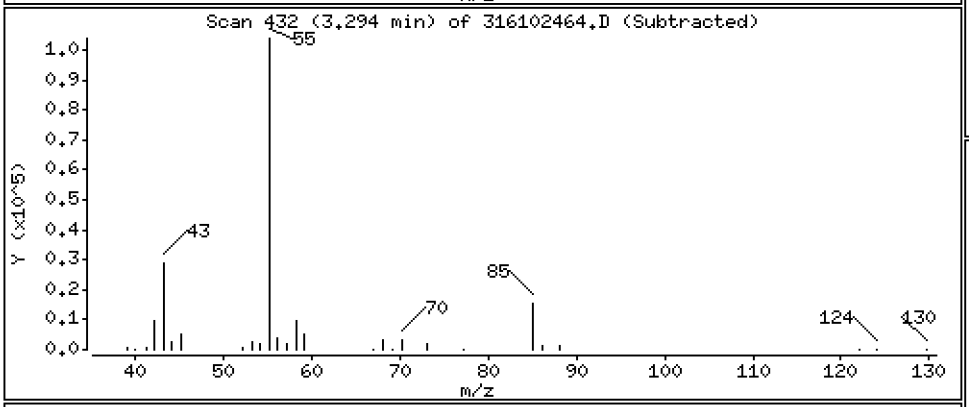
Sample Info: 2428716;;1;3;;LCS;1;

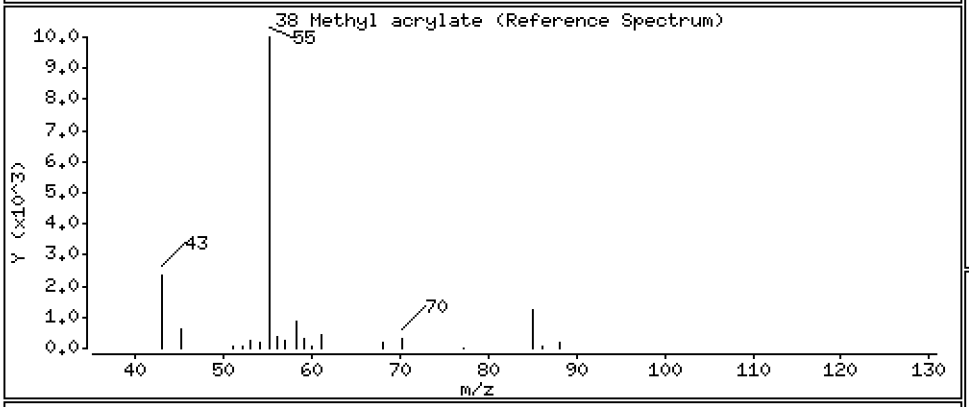
Purge Volume: 5.0 Operator: CJG

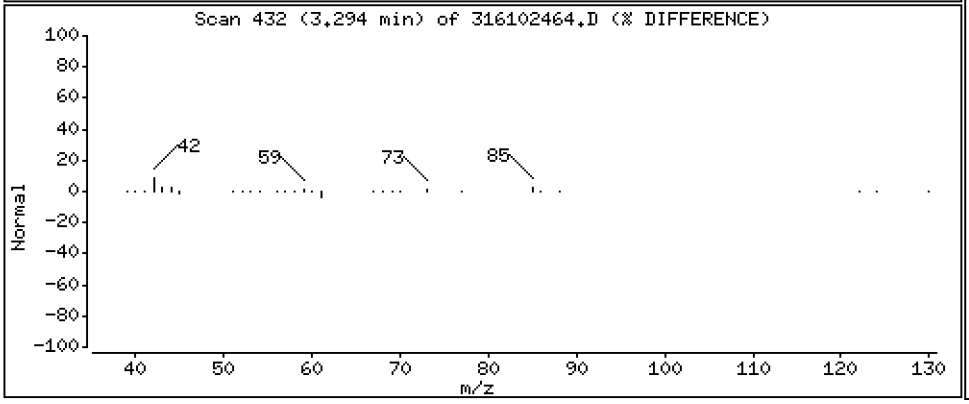
Column phase: DB-VRX Column diameter: 0.25

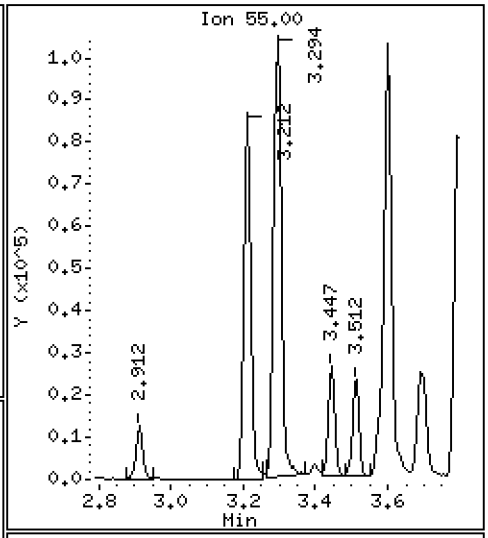
38 Methyl acrylate Concentration: 18.6211 ug/L

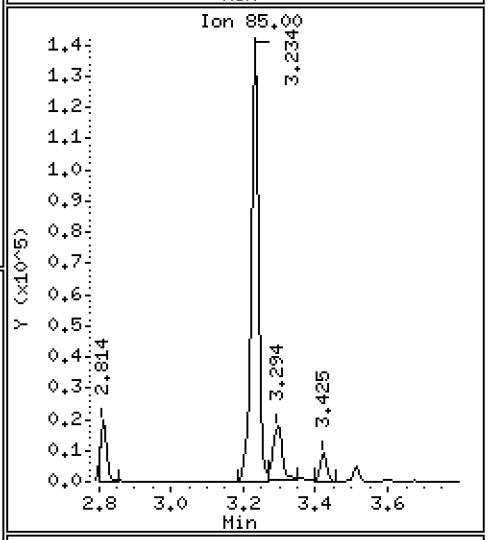


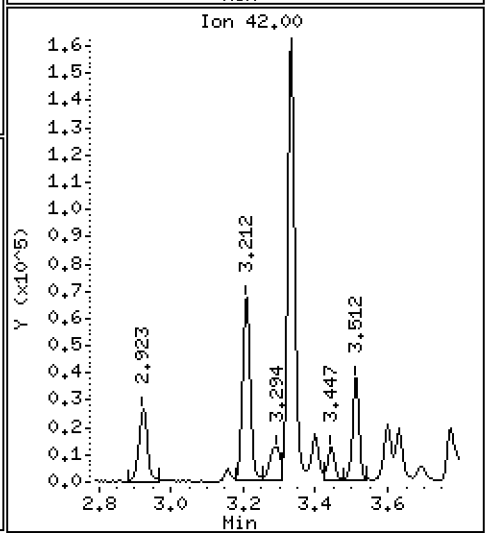












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 51

Date : 25-OCT-2016 03:26

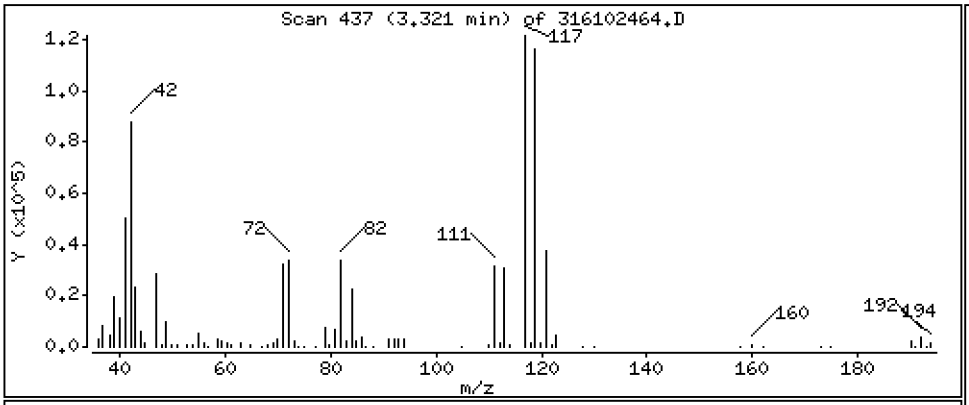
Client ID: LCS for HBN 174041 Instrument: ms03.i

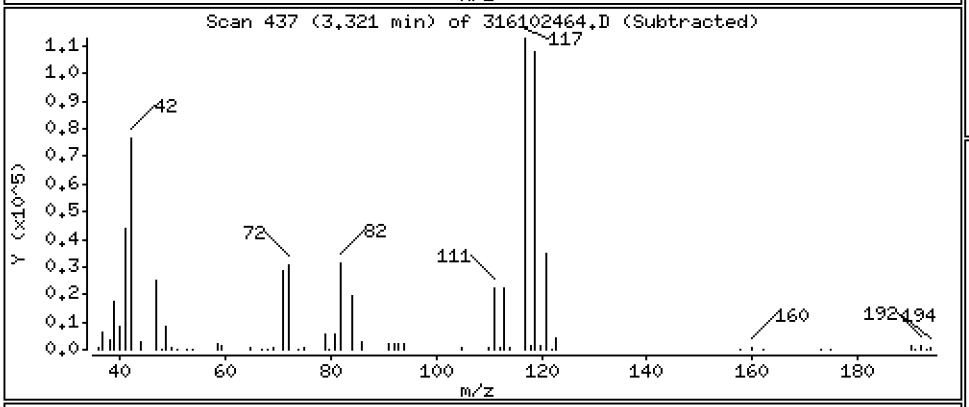
Sample Info: 2428716;;1;3;;LCS;1;

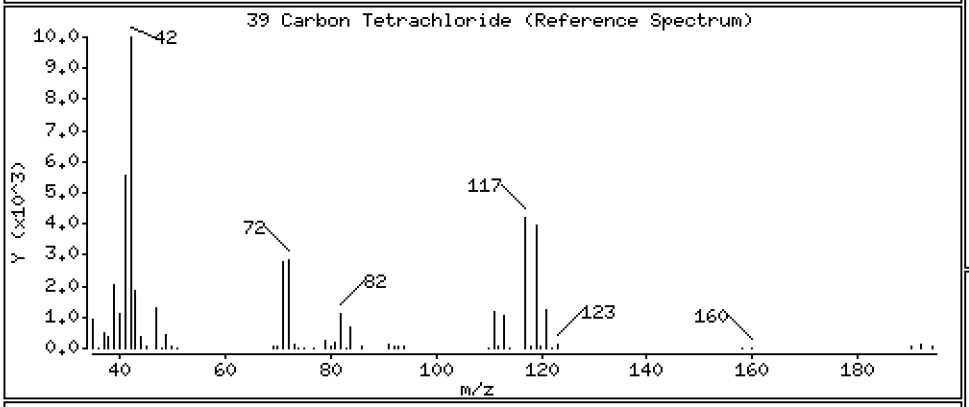
Purge Volume: 5.0 Operator: CJG

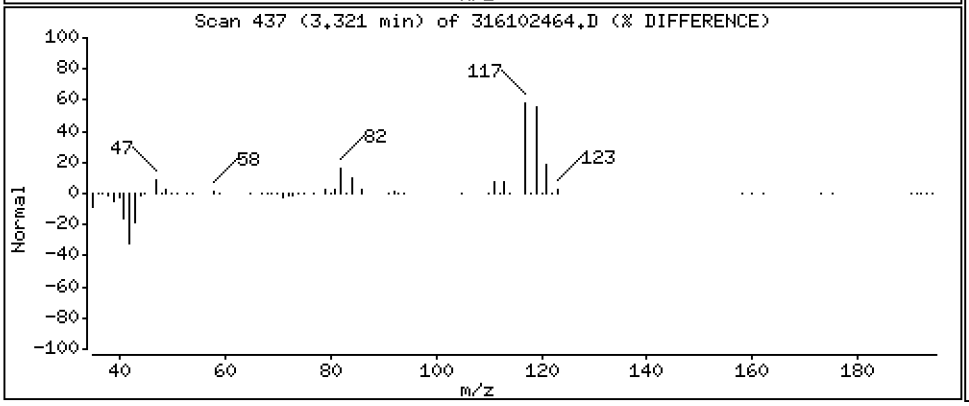
Column phase: DB-VRX Column diameter: 0.25

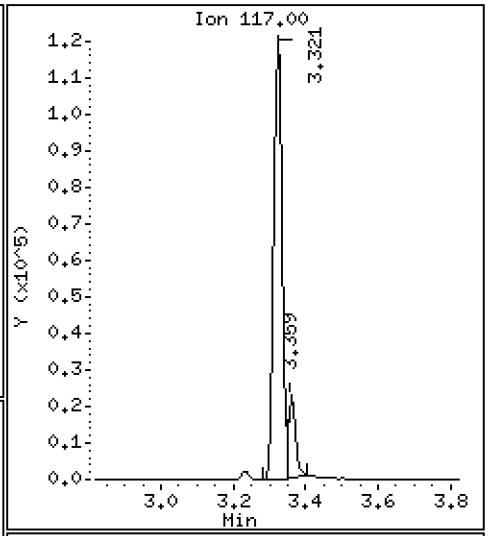
39 Carbon Tetrachloride Concentration: 18.7837 ug/L

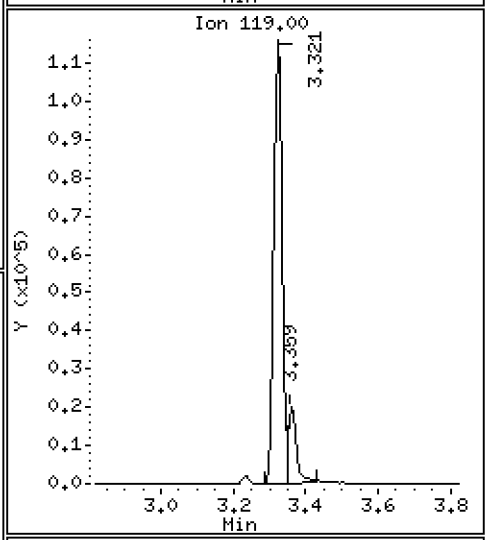


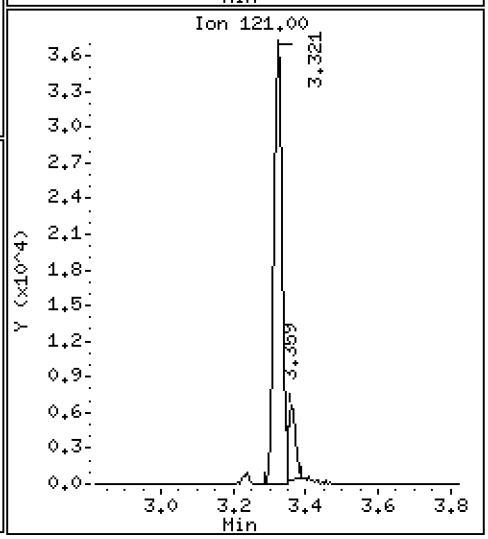












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 52

Date : 25-OCT-2016 03:26

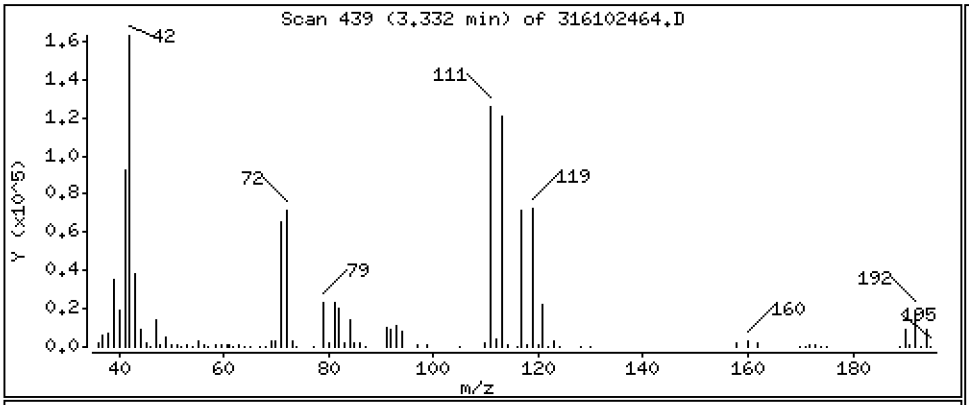
Client ID: LCS for HBN 174041 Instrument: ms03.i

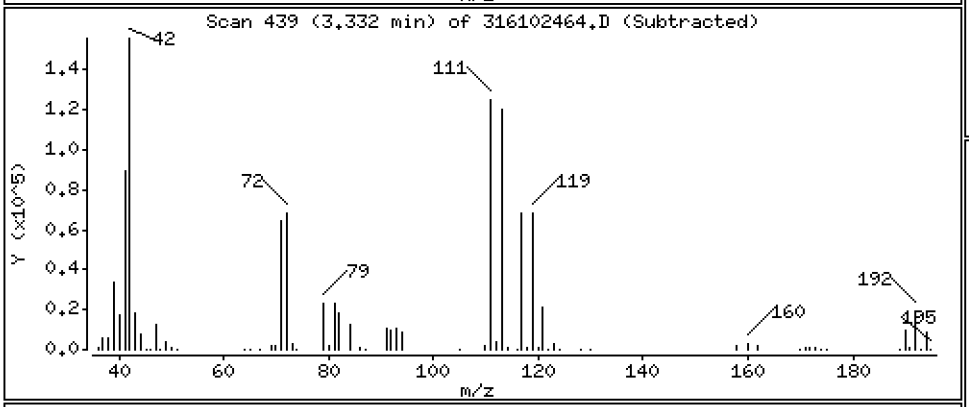
Sample Info: 2428716;;1;3;;LCS;1;

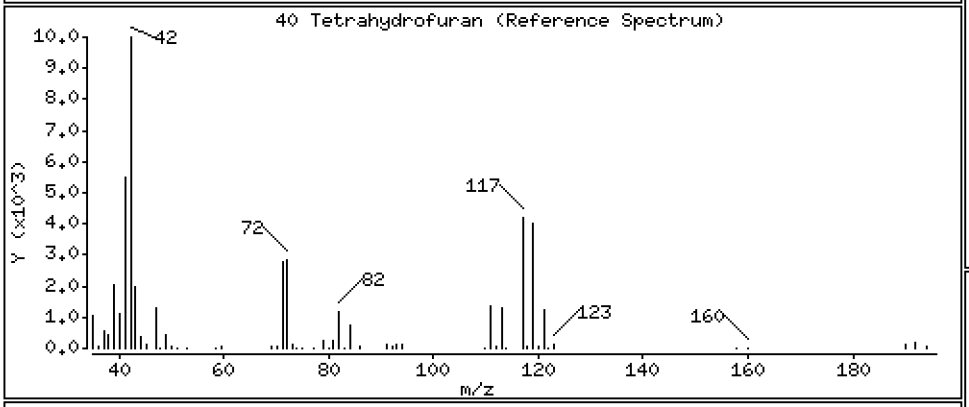
Purge Volume: 5.0 Operator: CJG

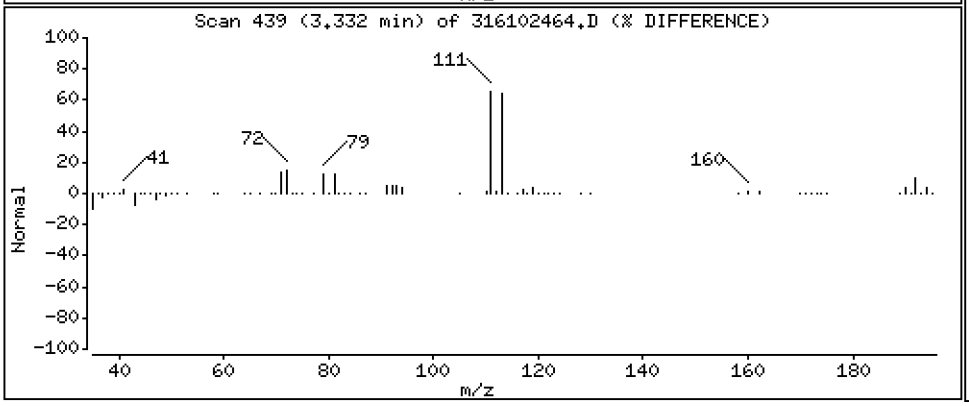
Column phase: DB-VRX Column diameter: 0.25

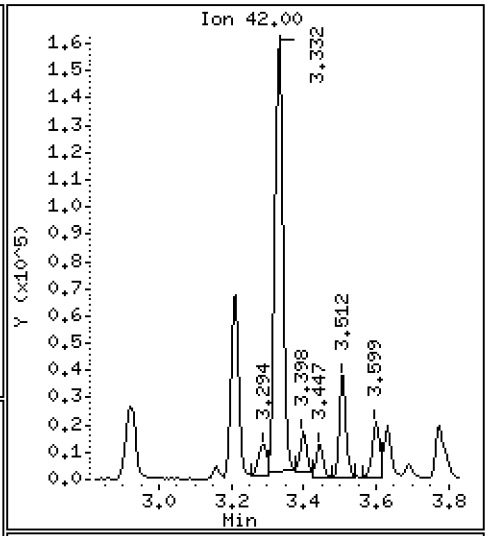
40 Tetrahydrofuran Concentration: 92.0853 ug/L

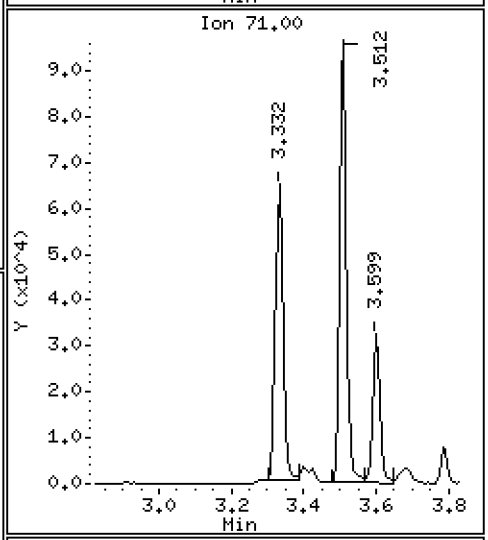


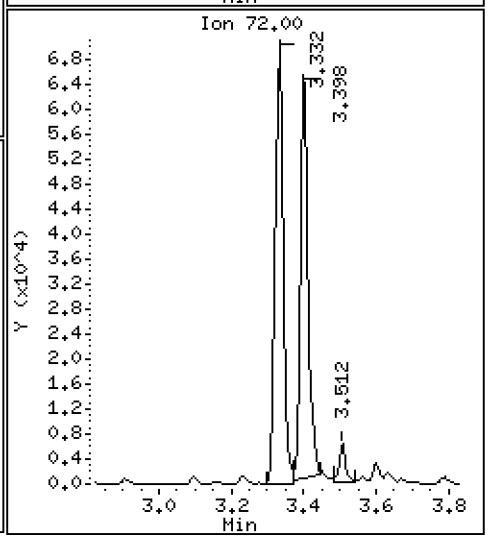












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 53

Date : 25-OCT-2016 03:26

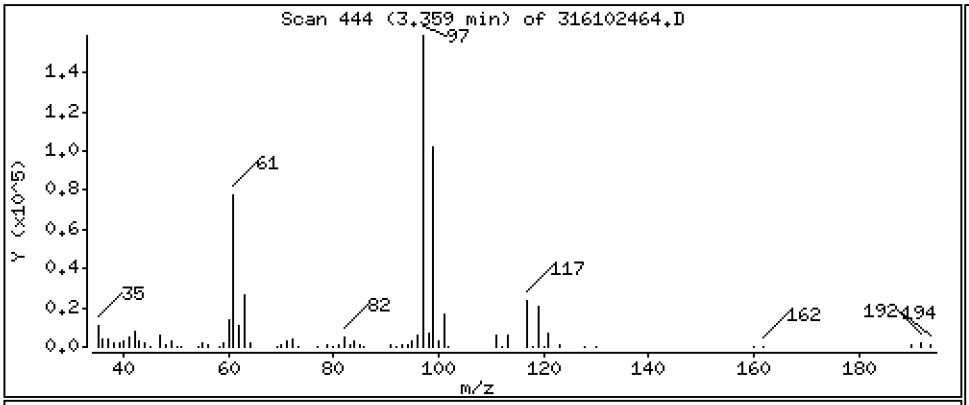
Client ID: LCS for HBN 174041 Instrument: ms03.i

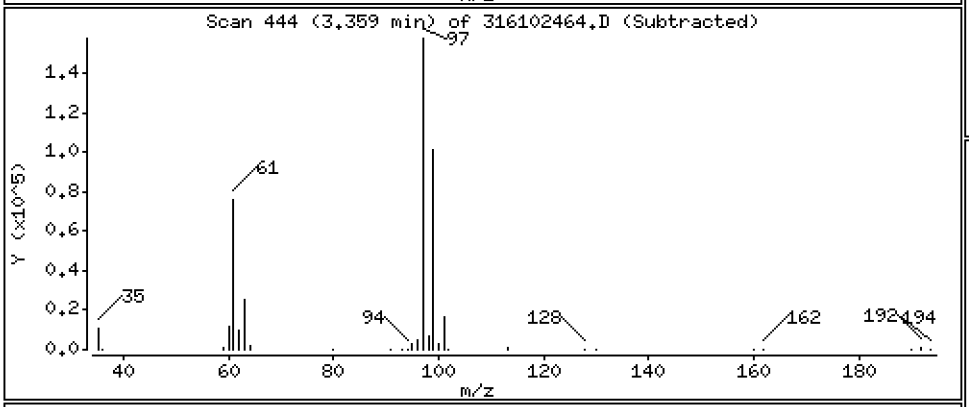
Sample Info: 2428716;;1;3;;LCS;1;

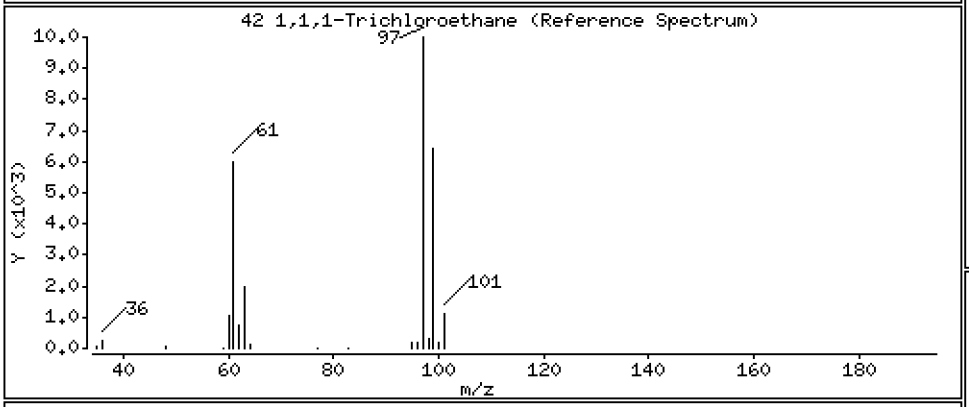
Purge Volume: 5.0 Operator: CJG

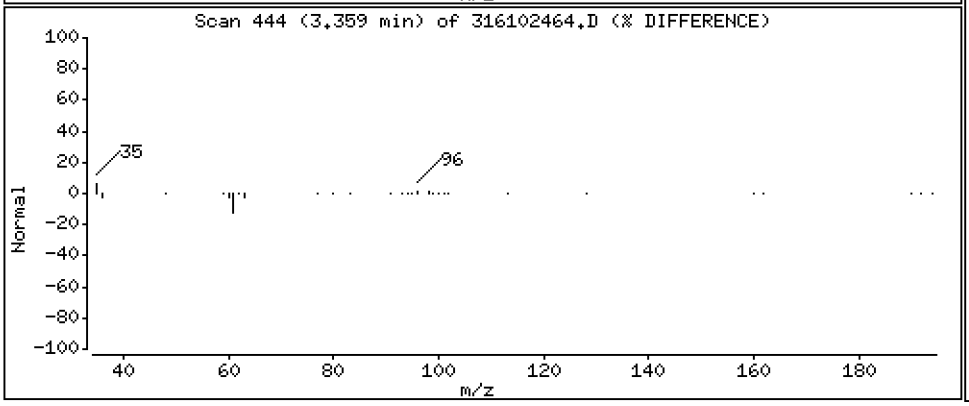
Column phase: DB-VRX Column diameter: 0.25

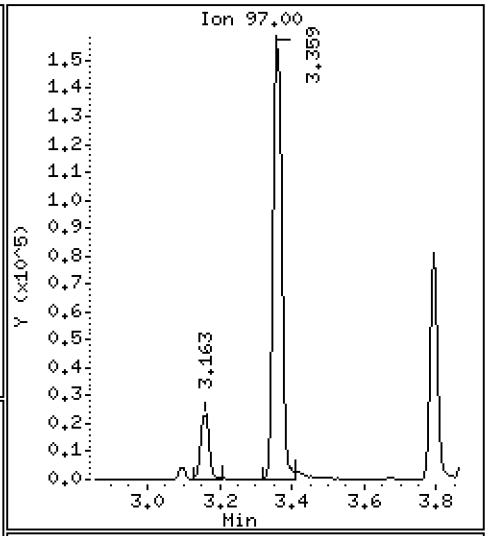
42 1,1,1-Trichloroethane Concentration: 18.9740 ug/L

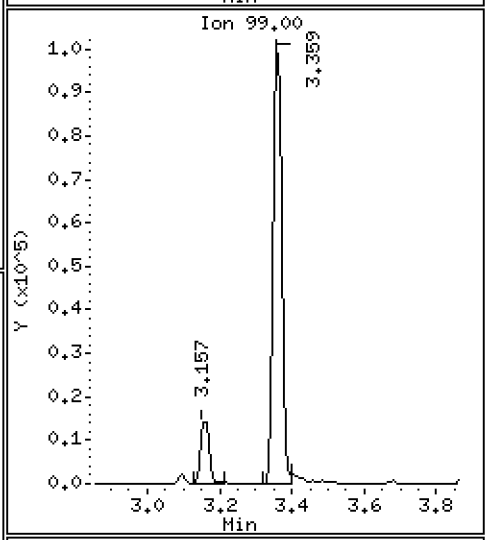


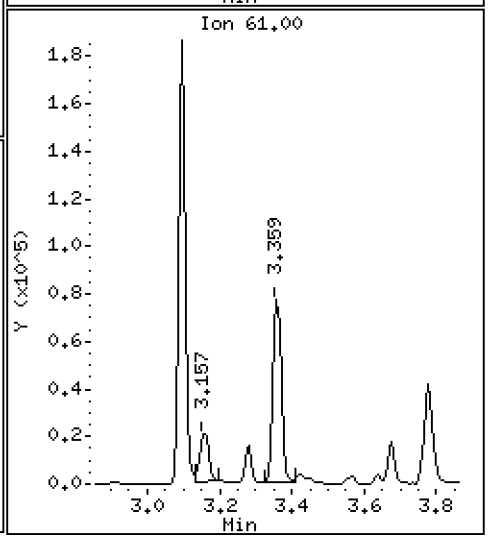












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 54

Date : 25-OCT-2016 03:26

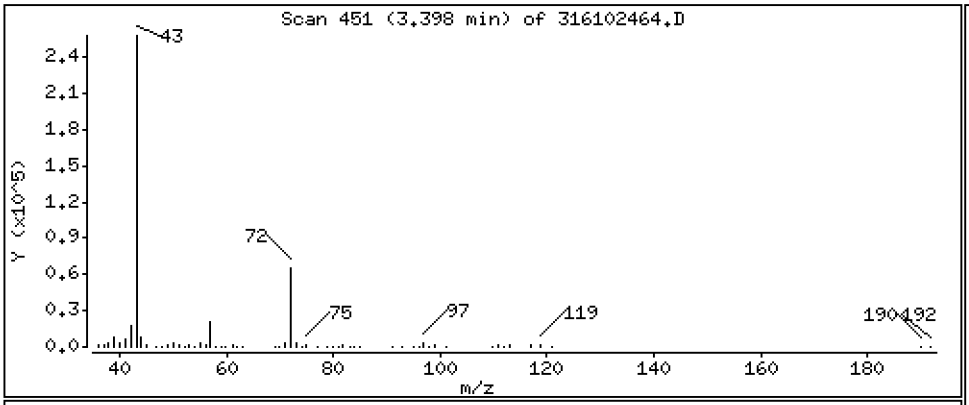
Client ID: LCS for HBN 174041 Instrument: ms03.i

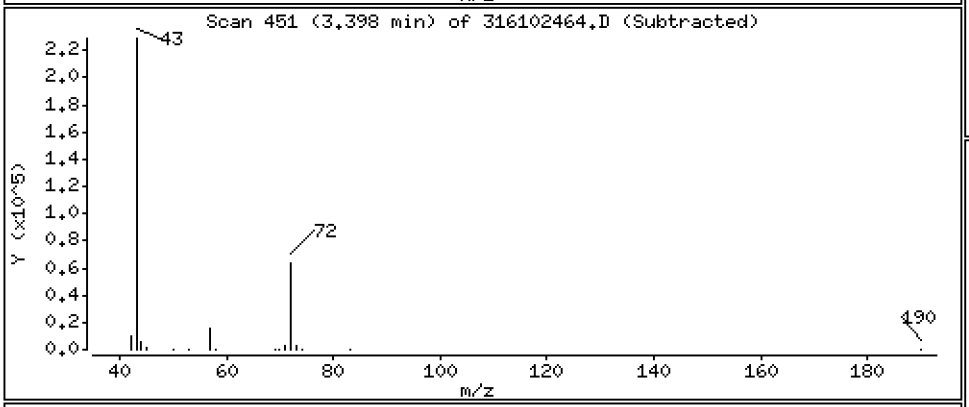
Sample Info: 2428716;;1;3;;LCS;1;

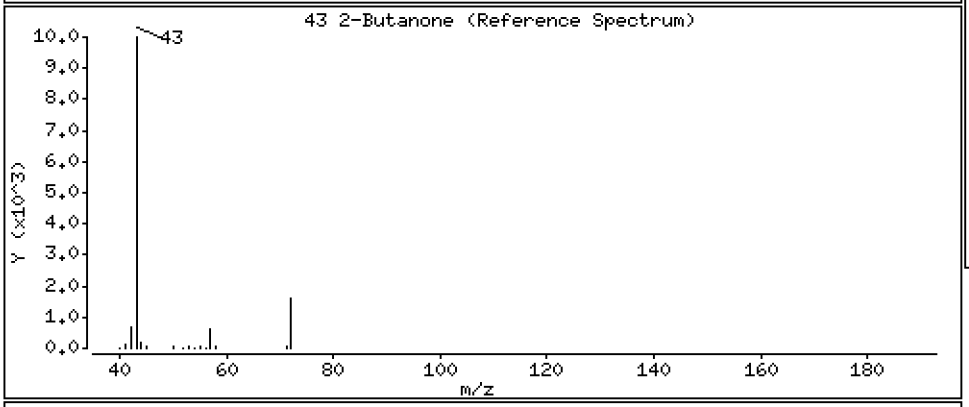
Purge Volume: 5.0 Operator: CJG

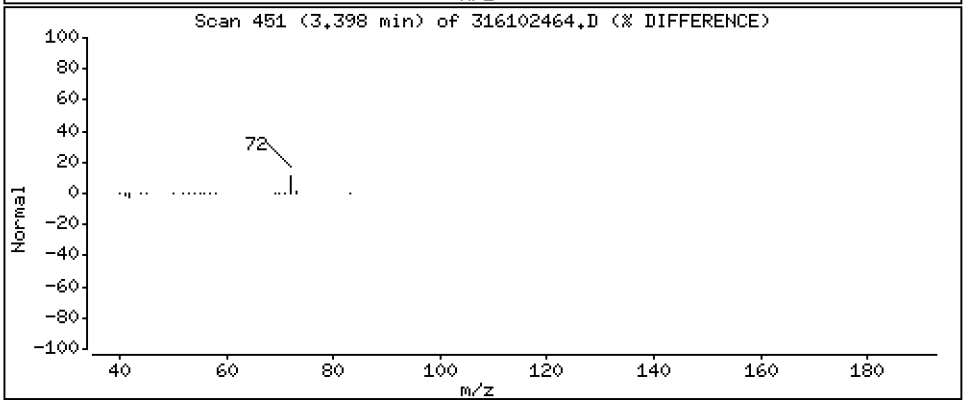
Column phase: DB-VRX Column diameter: 0.25

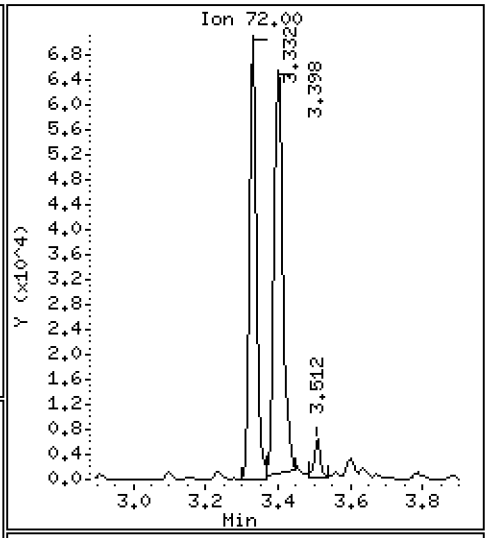
43 2-Butanone Concentration: 95.2665 ug/L

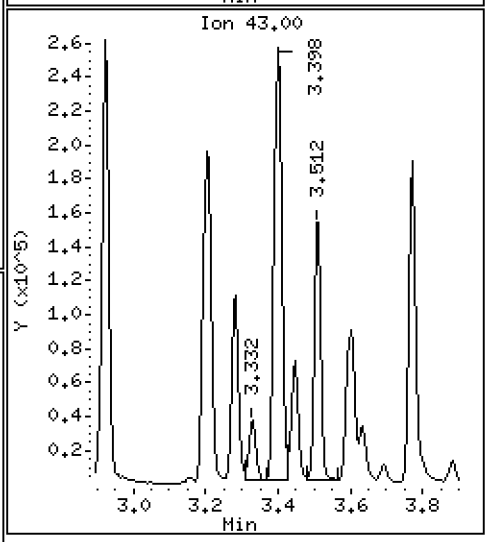












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 55

Date : 25-OCT-2016 03:26

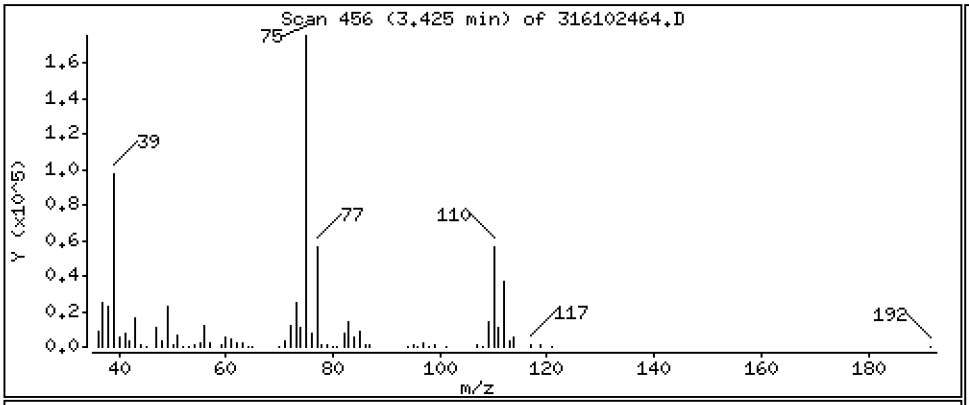
Client ID: LCS for HBN 174041 Instrument: ms03.i

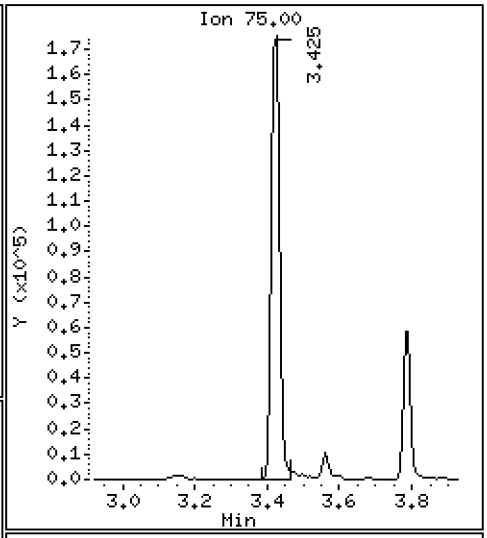
Sample Info: 2428716;;1;3;;LCS;1;

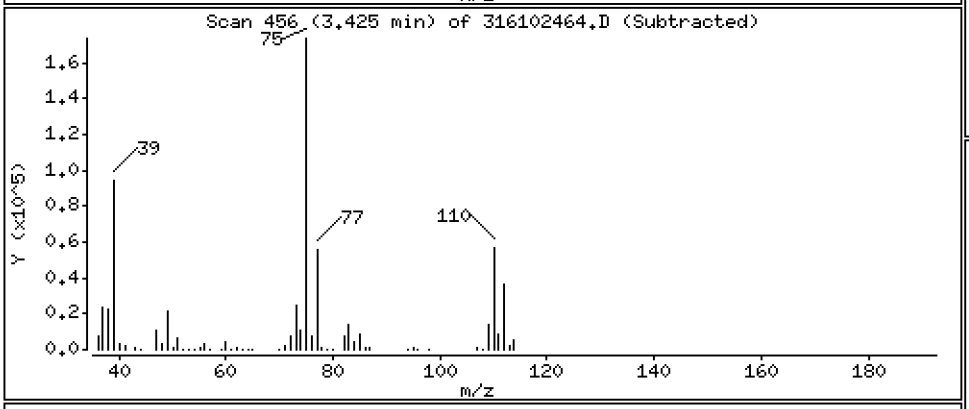
Purge Volume: 5.0 Operator: CJG

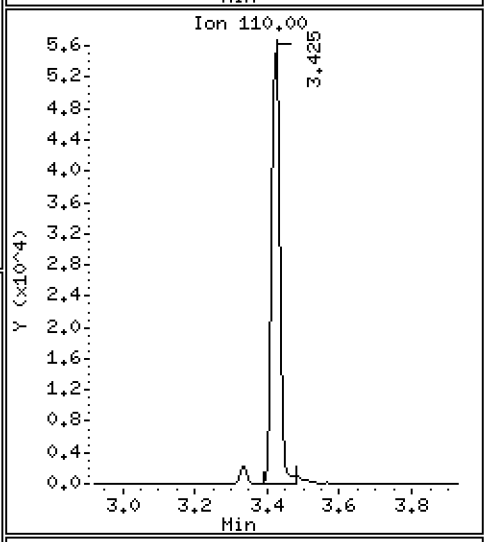
Column phase: DB-VRX Column diameter: 0.25

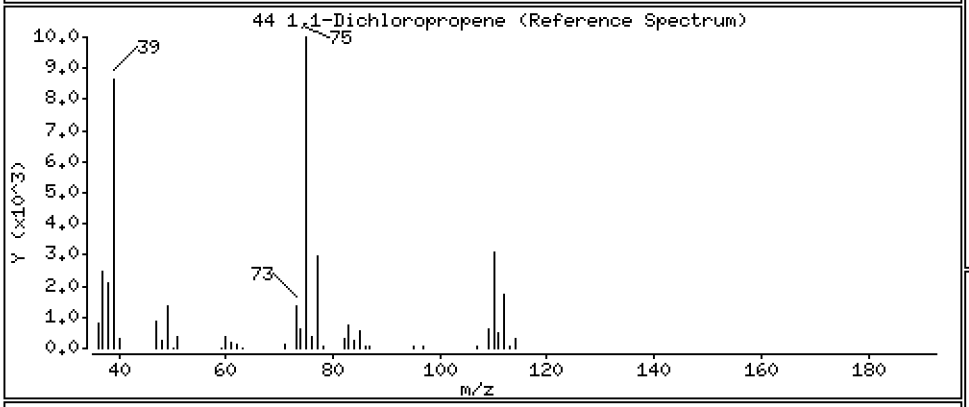
44 1,1-Dichloropropene Concentration: 18.9055 ug/L

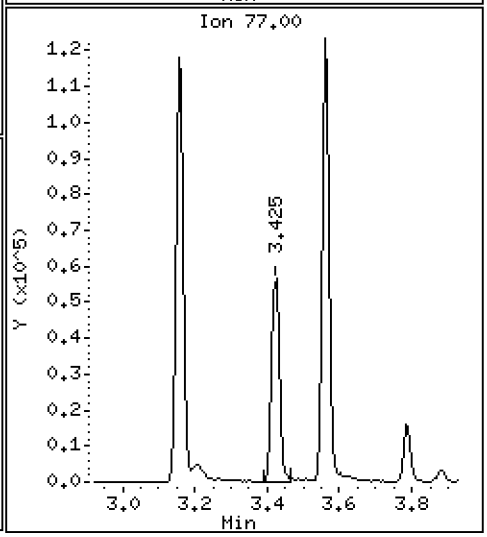


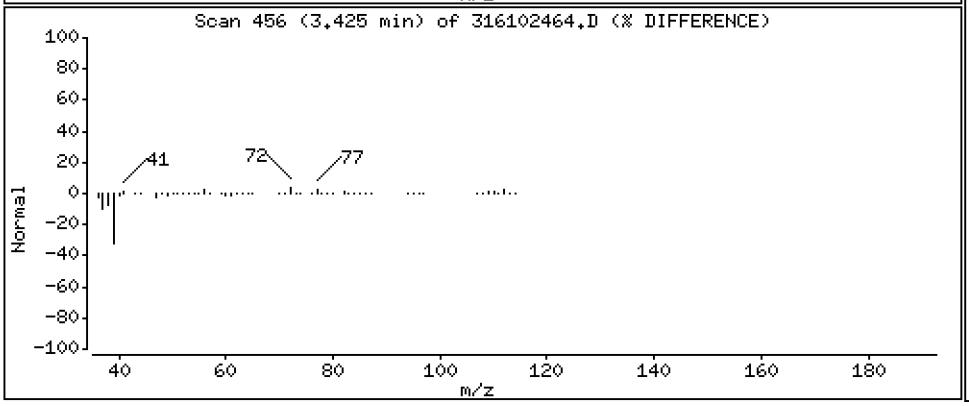












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 56

Date : 25-OCT-2016 03:26

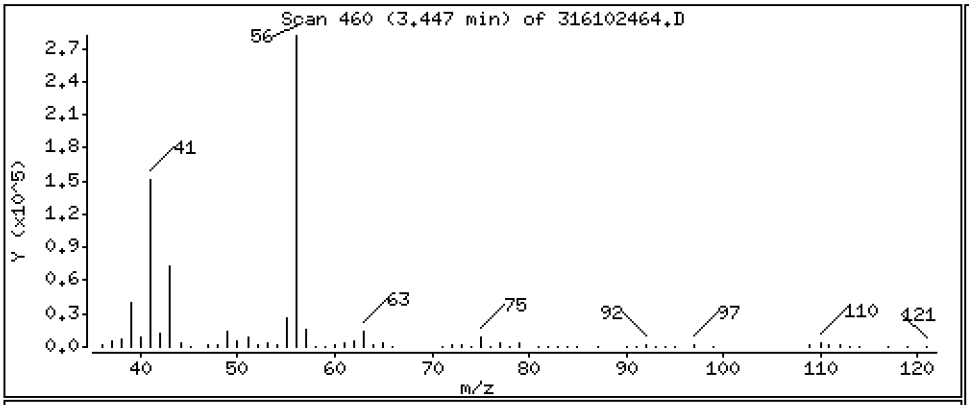
Client ID: LCS for HBN 174041 Instrument: ms03.i

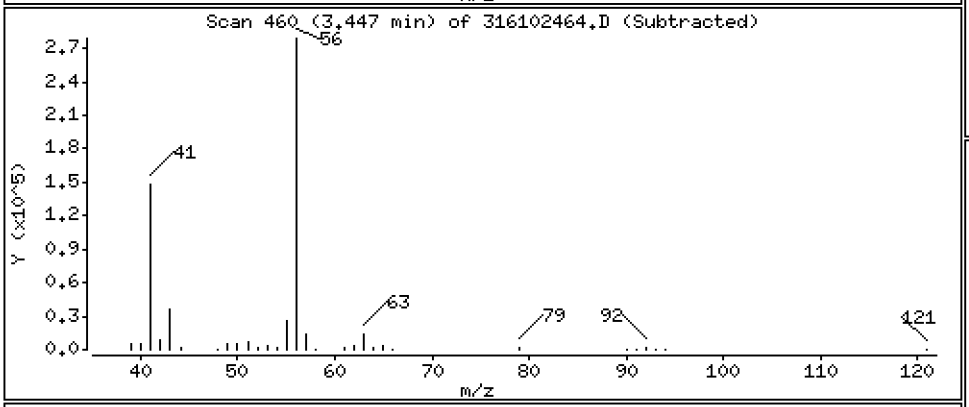
Sample Info: 2428716;;1;3;;LCS;1;

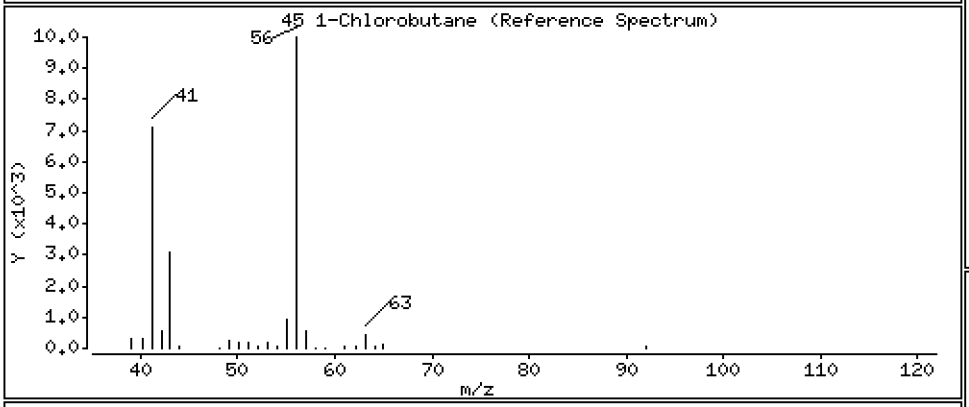
Purge Volume: 5.0 Operator: CJG

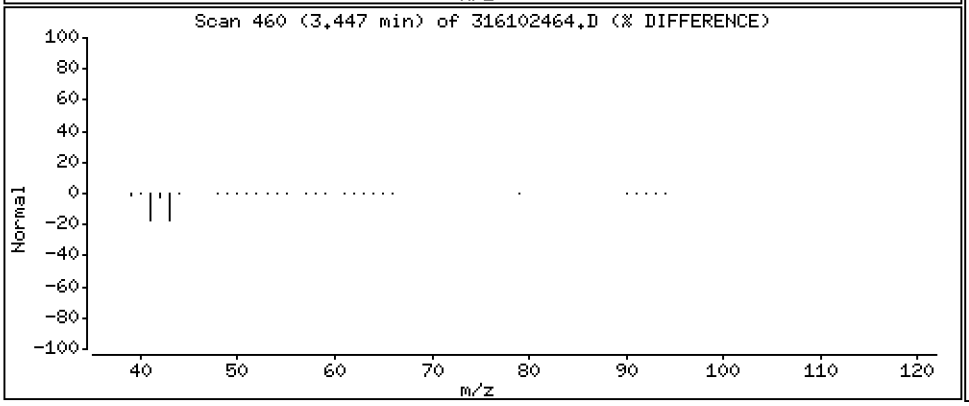
Column phase: DB-VRX Column diameter: 0.25

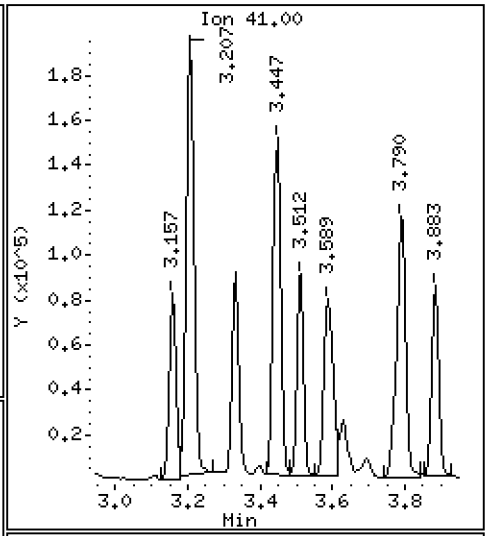
45 1-Chlorobutane Concentration: 20.7033 ug/L

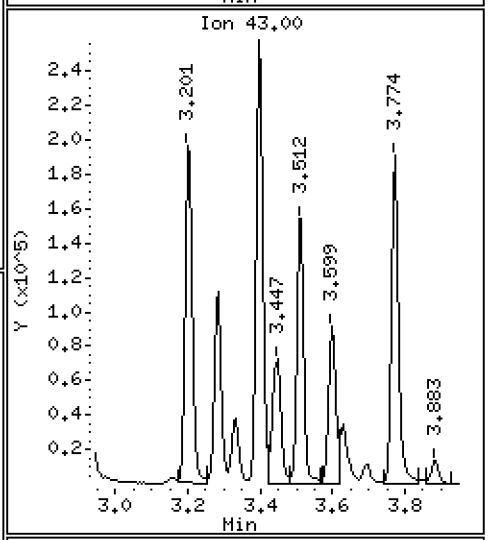


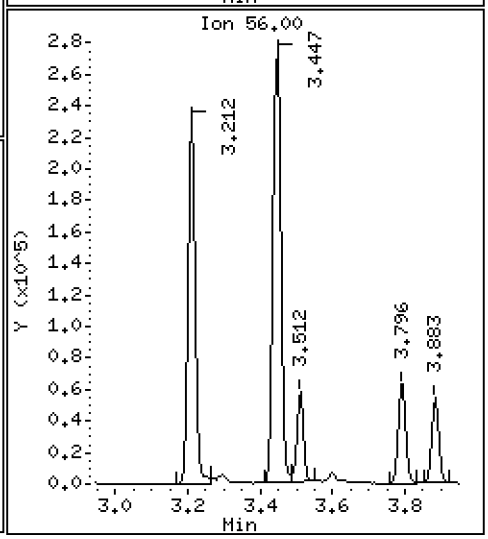












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 57

Date : 25-OCT-2016 03:26

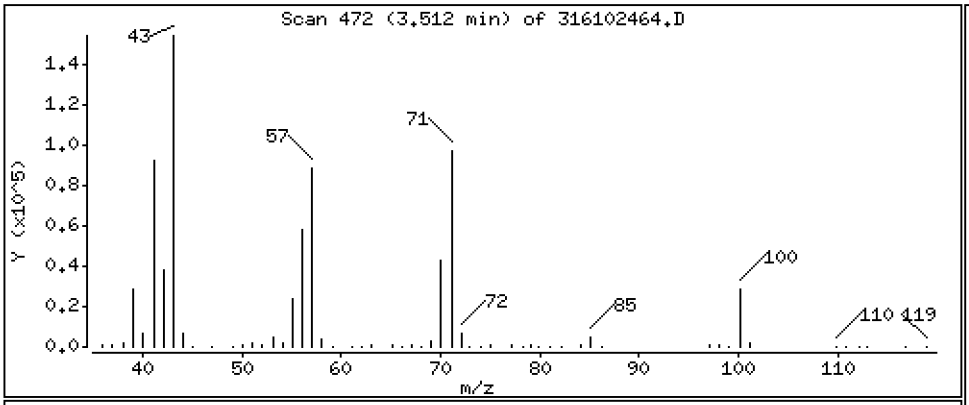
Client ID: LCS for HBN 174041 Instrument: ms03.i

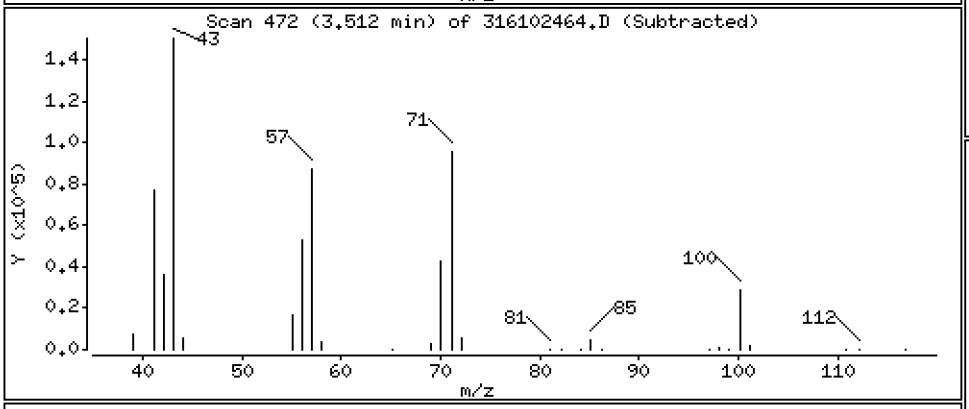
Sample Info: 2428716;;1;3;;LCS;1;

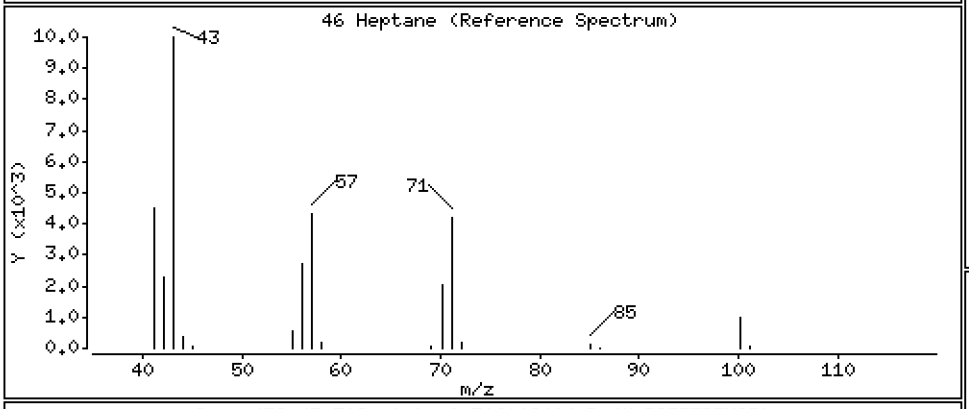
Purge Volume: 5.0 Operator: CJG

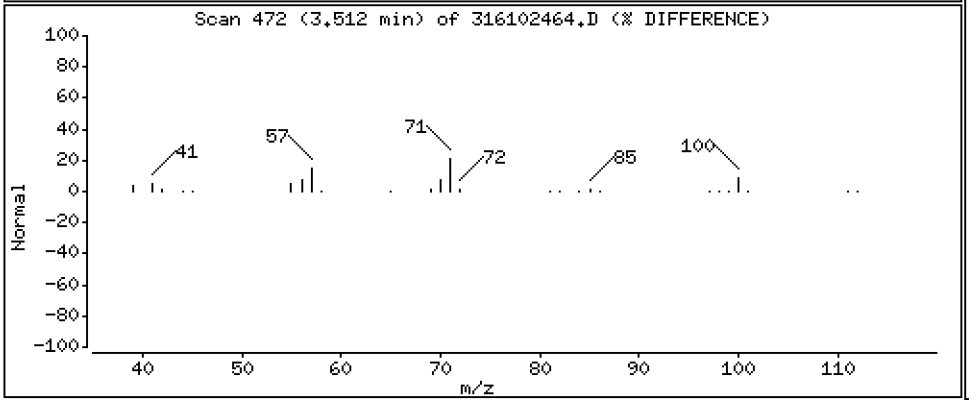
Column phase: DB-VRX Column diameter: 0.25

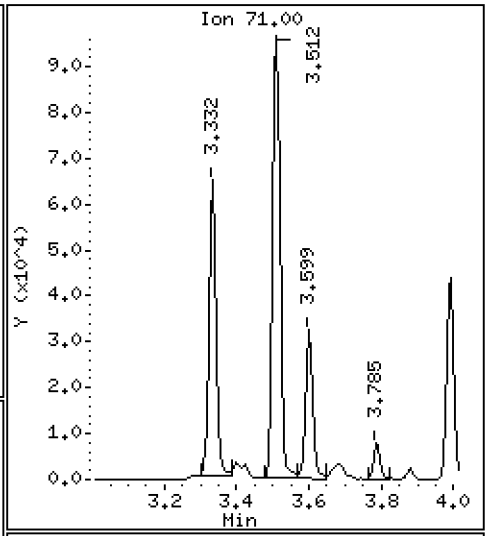
46 Heptane Concentration: 20.9633 ug/L

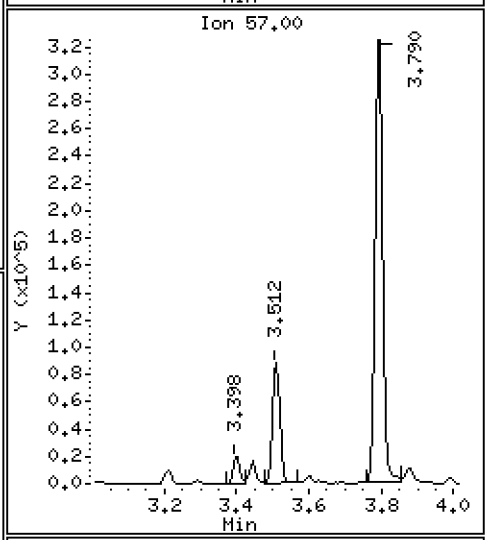


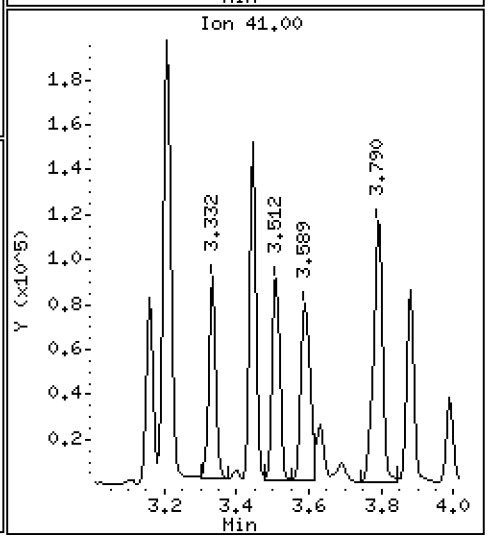












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 58

Date : 25-OCT-2016 03:26

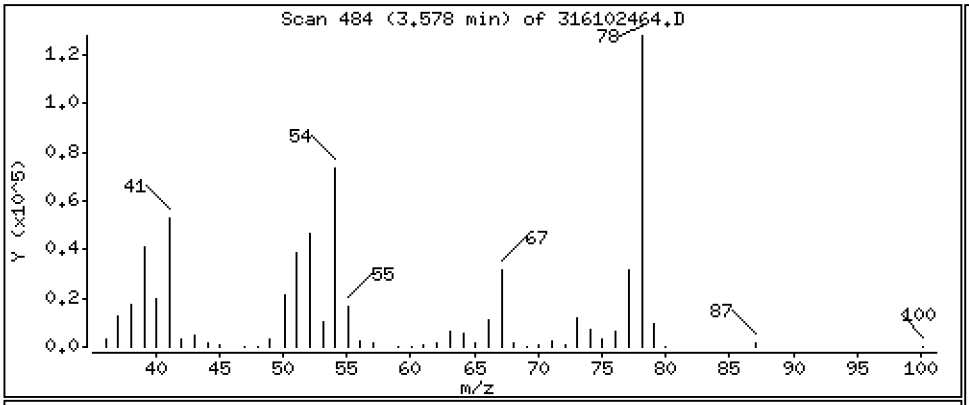
Client ID: LCS for HBN 174041 Instrument: ms03.i

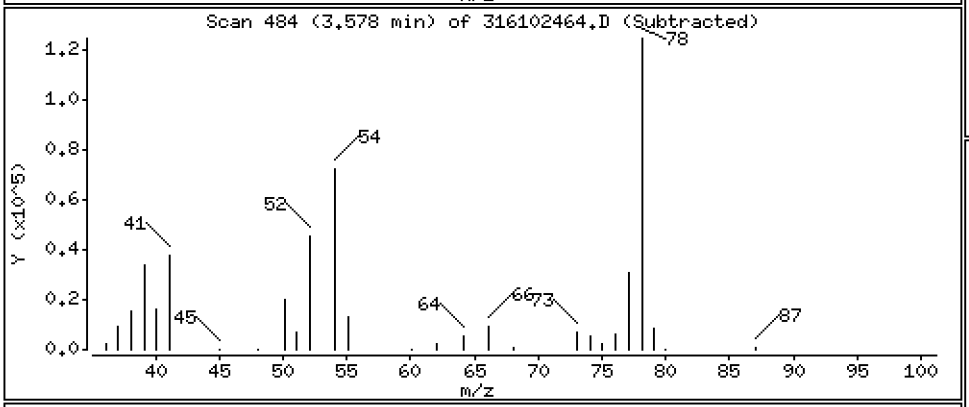
Sample Info: 2428716;;1;3;;LCS;1;

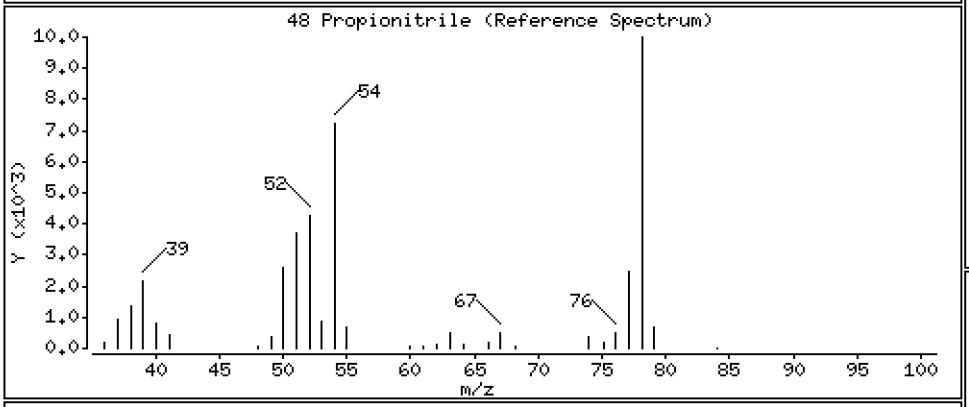
Purge Volume: 5.0 Operator: CJG

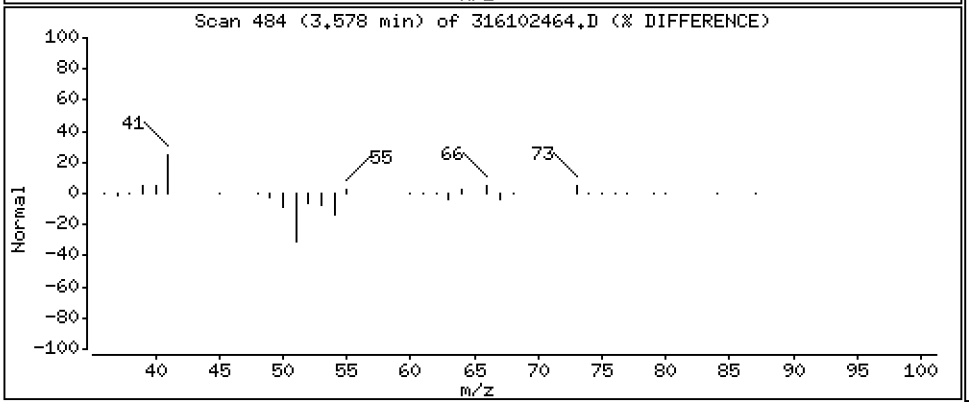
Column phase: DB-VRX Column diameter: 0.25

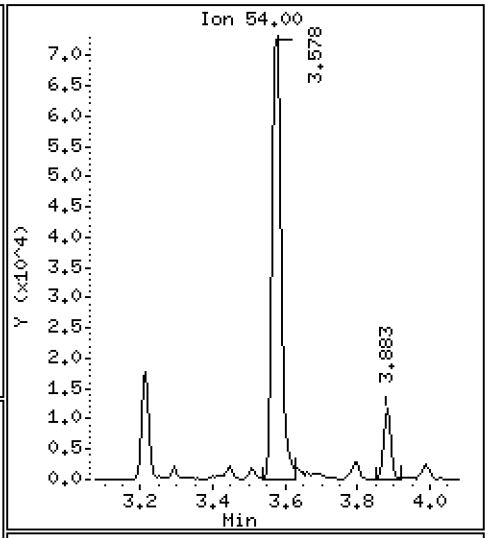
48 Propionitrile Concentration: 96.1541 ug/L

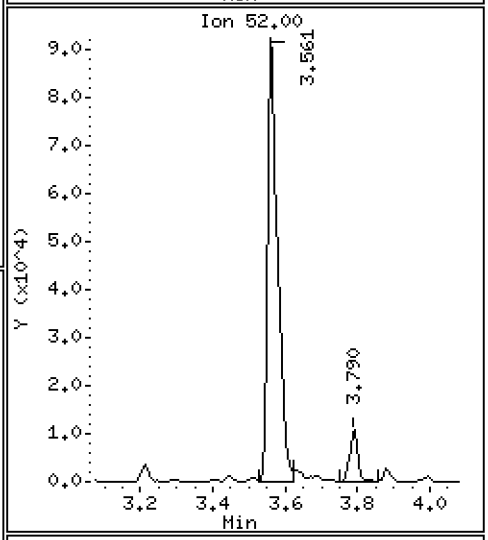


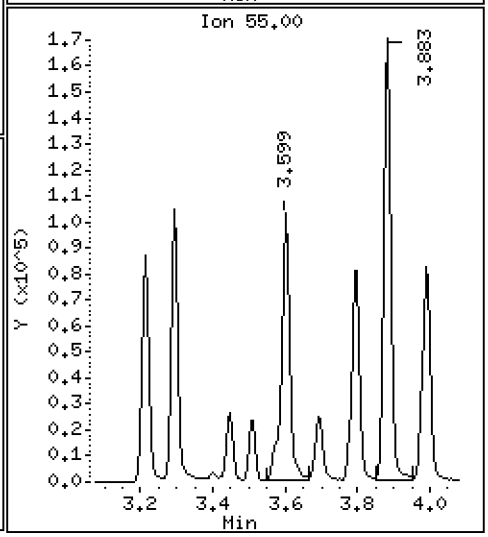












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 59

Date : 25-OCT-2016 03:26

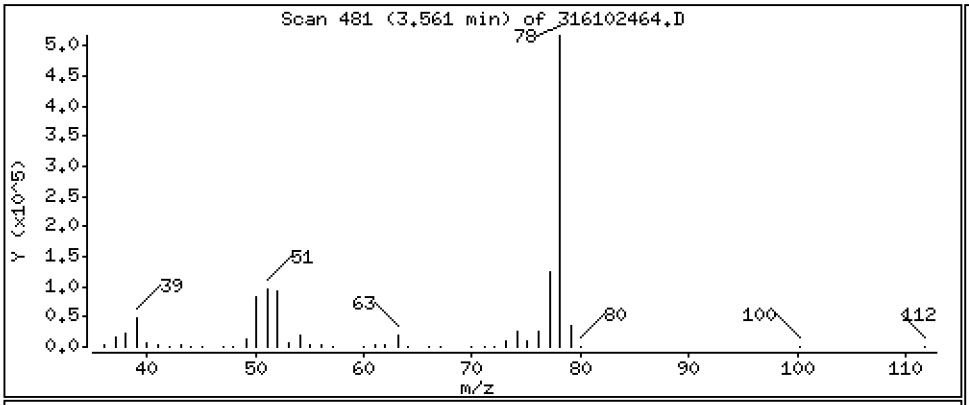
Client ID: LCS for HBN 174041 Instrument: ms03.i

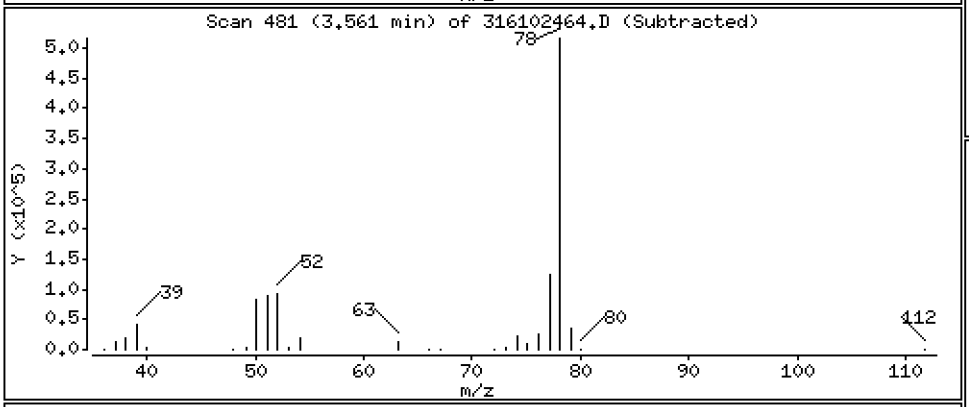
Sample Info: 2428716;;1;3;;LCS;1;

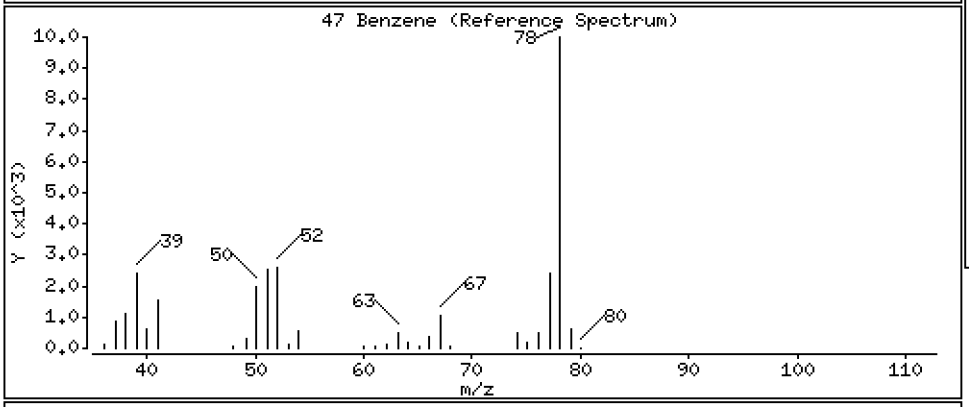
Purge Volume: 5.0 Operator: CJG

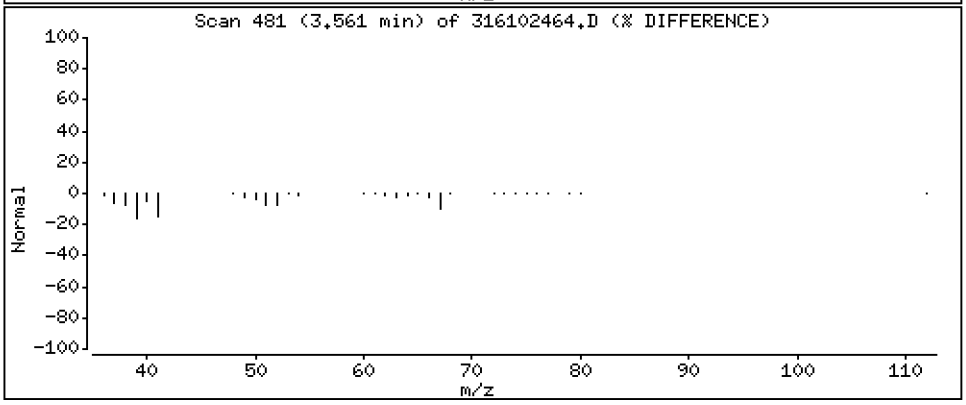
Column phase: DB-VRX Column diameter: 0.25

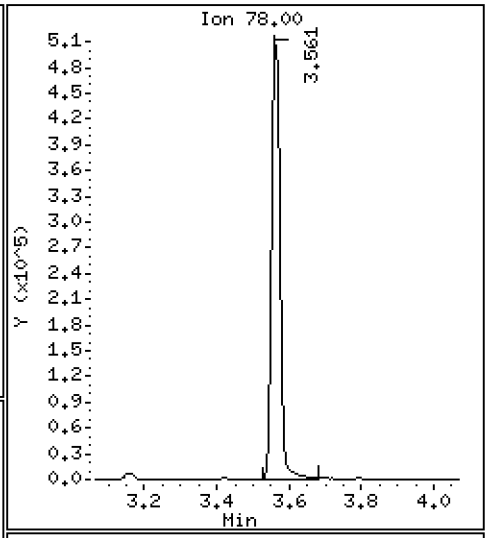
47 Benzene Concentration: 18.2059 ug/L

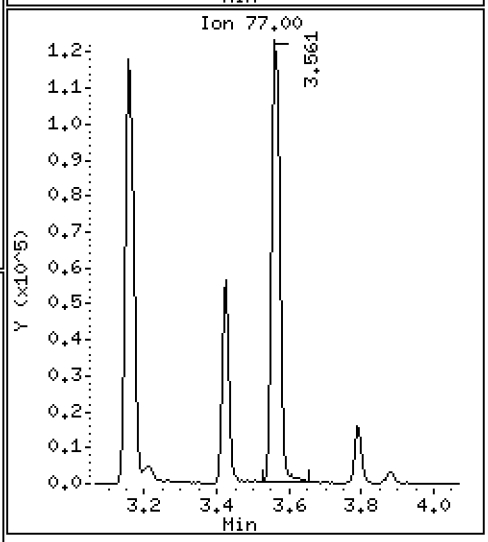












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 60

Date : 25-OCT-2016 03:26

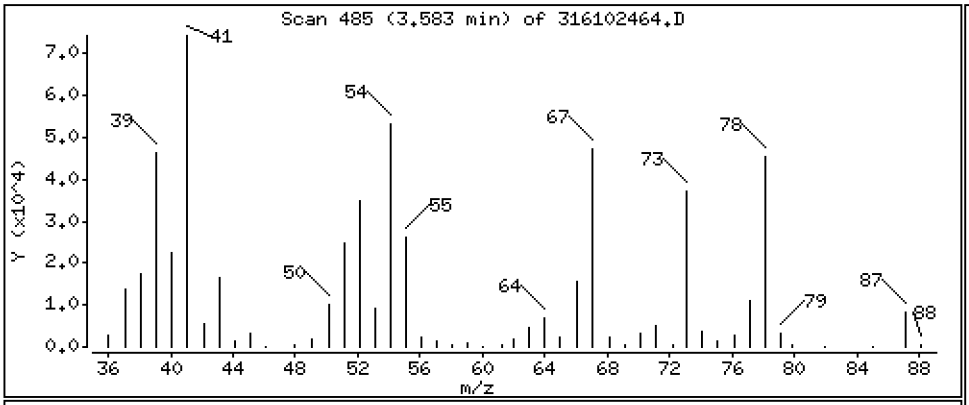
Client ID: LCS for HBN 174041 Instrument: ms03.i

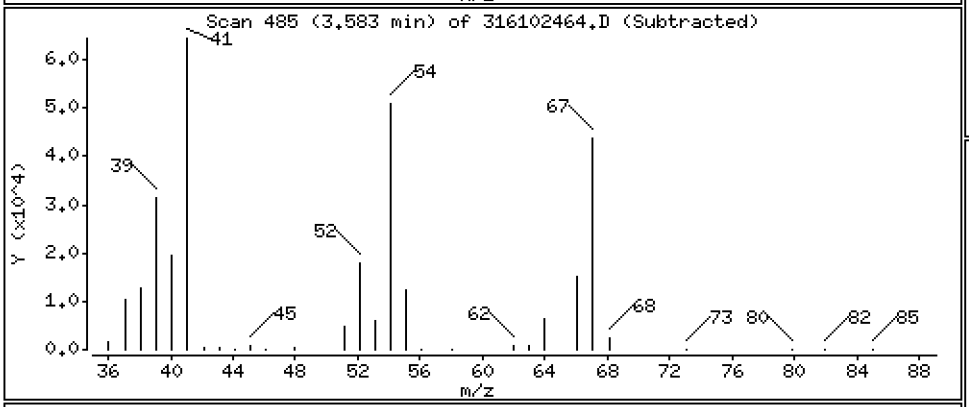
Sample Info: 2428716;;1;3;;LCS;1;

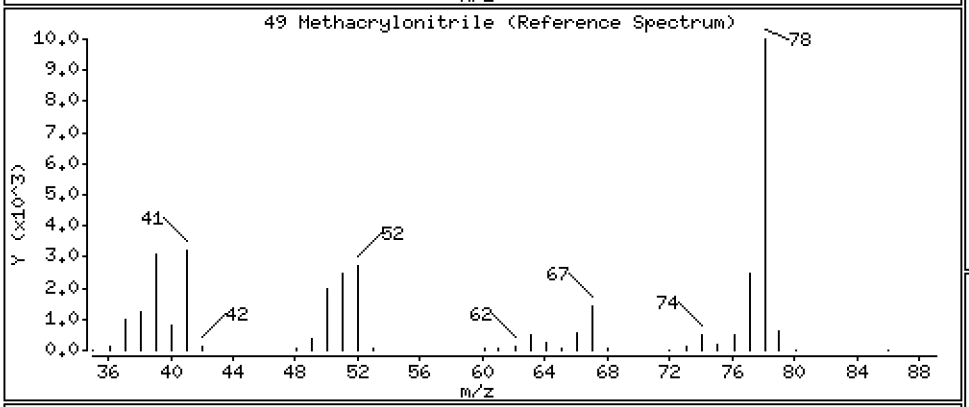
Purge Volume: 5.0 Operator: CJG

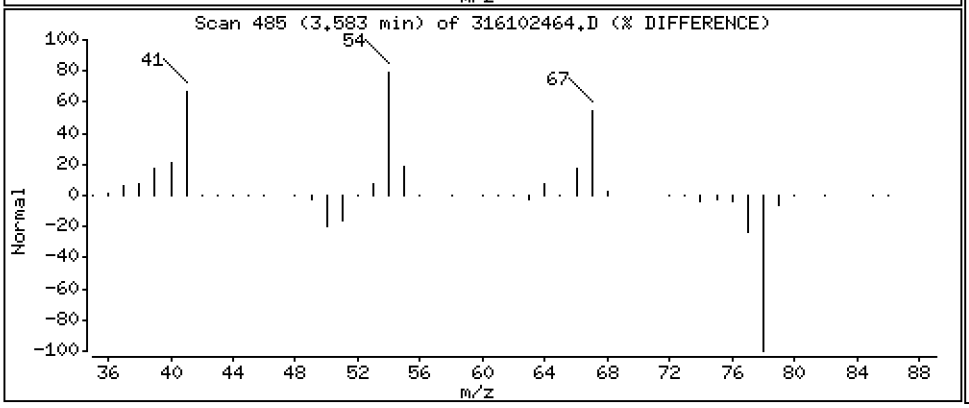
Column phase: DB-VRX Column diameter: 0.25

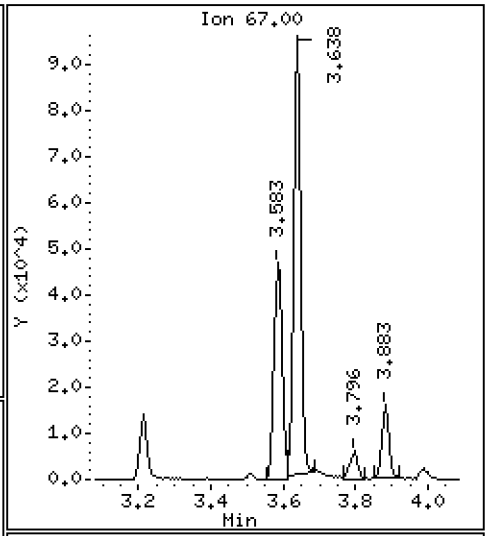
49 Methacrylonitrile Concentration: 18.3736 ug/L

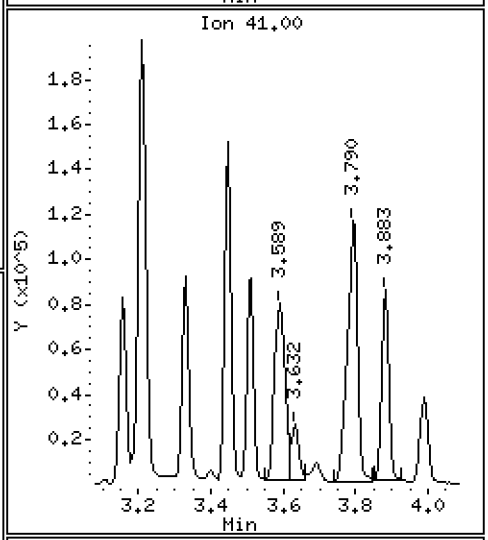


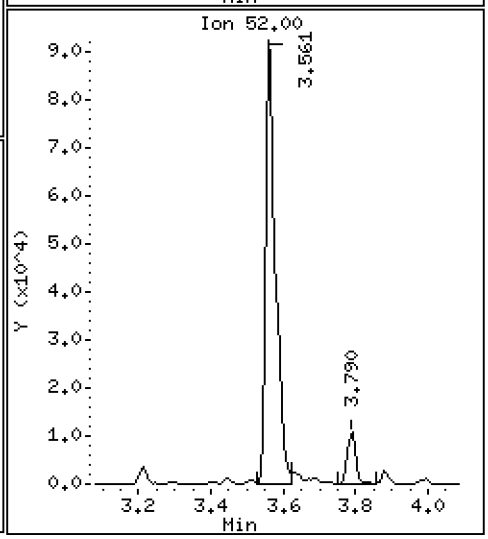












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 61

Date : 25-OCT-2016 03:26

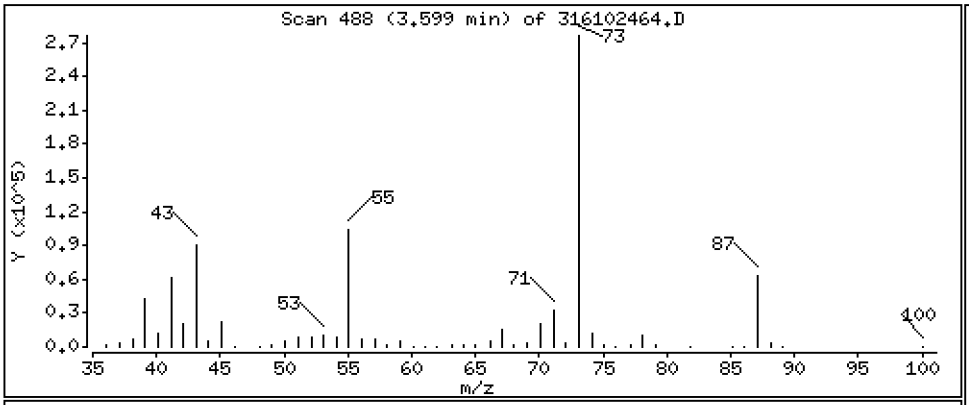
Client ID: LCS for HBN 174041 Instrument: ms03.i

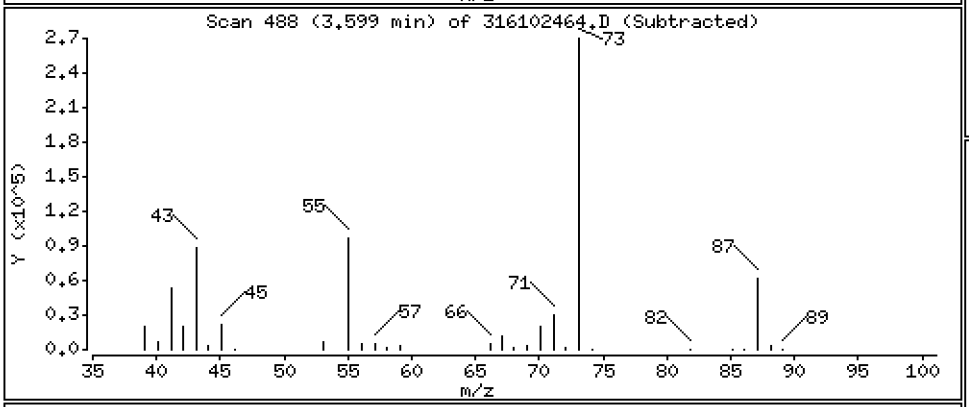
Sample Info: 2428716;;1;3;;LCS;1;

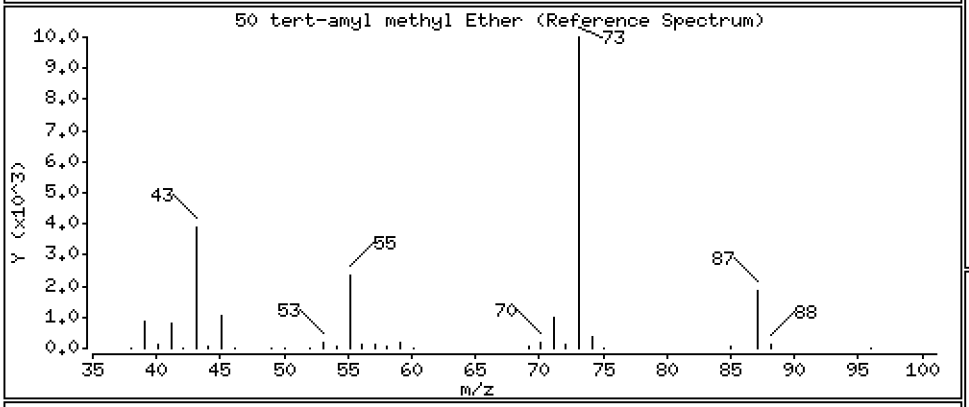
Purge Volume: 5.0 Operator: CJG

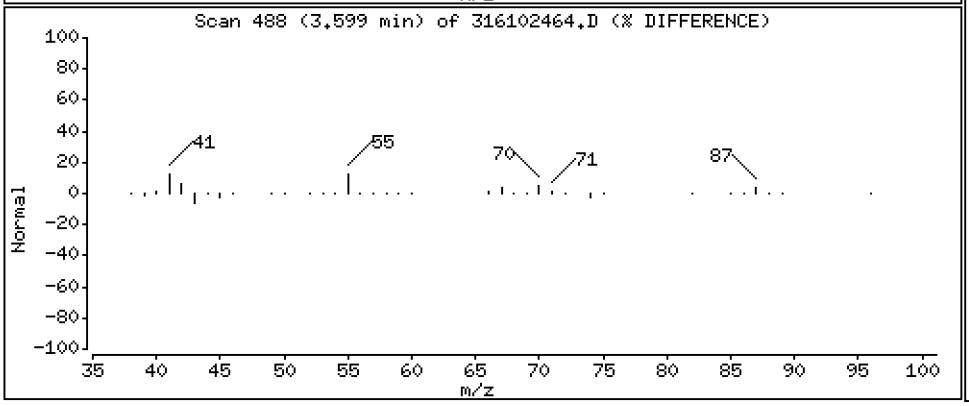
Column phase: DB-VRX Column diameter: 0.25

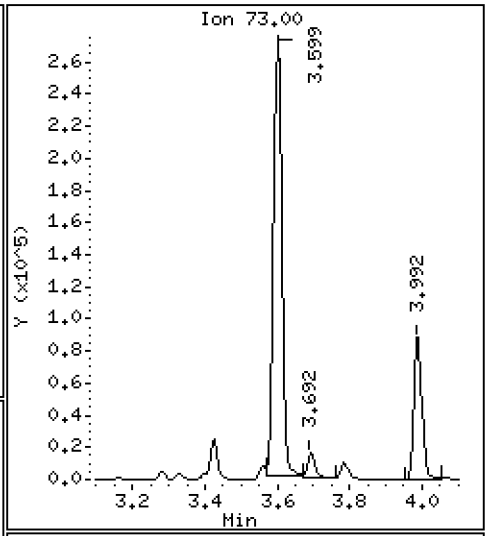
50 tert-amyl methyl Ether Concentration: 18.5894 ug/L

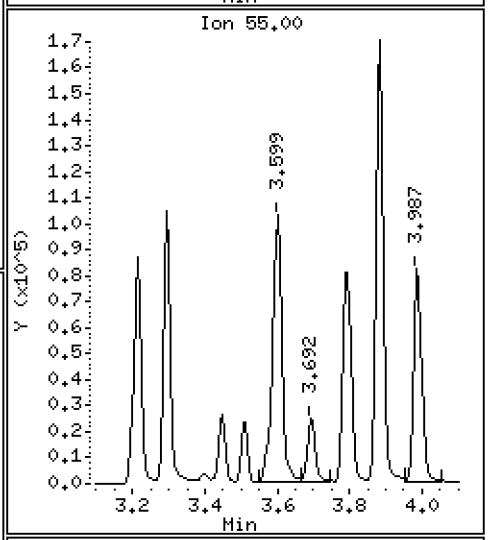


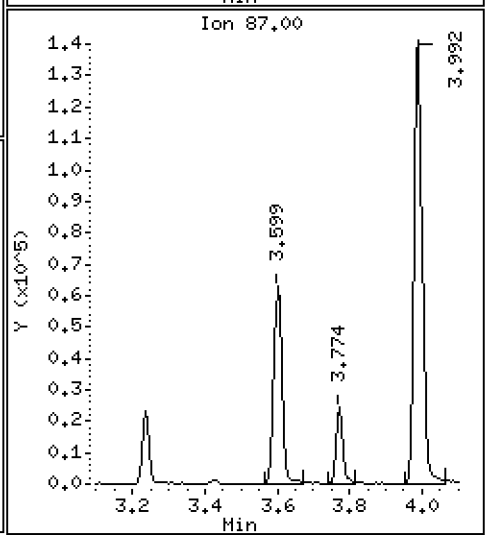












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 62

Date : 25-OCT-2016 03:26

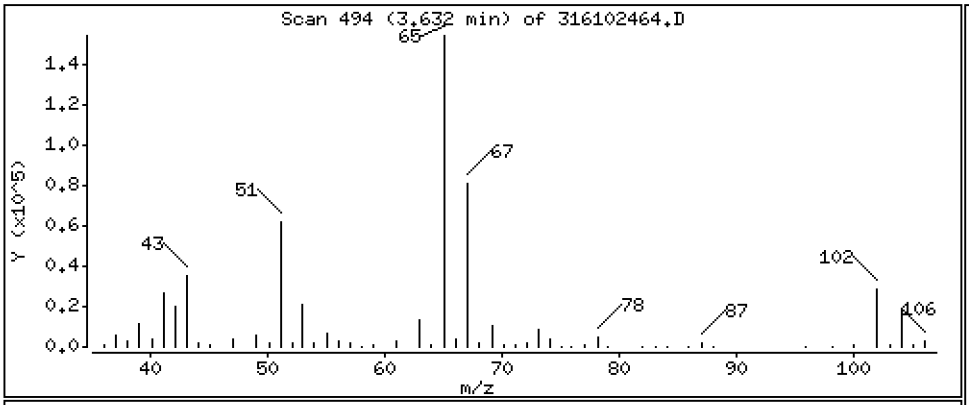
Client ID: LCS for HBN 174041 Instrument: ms03.i

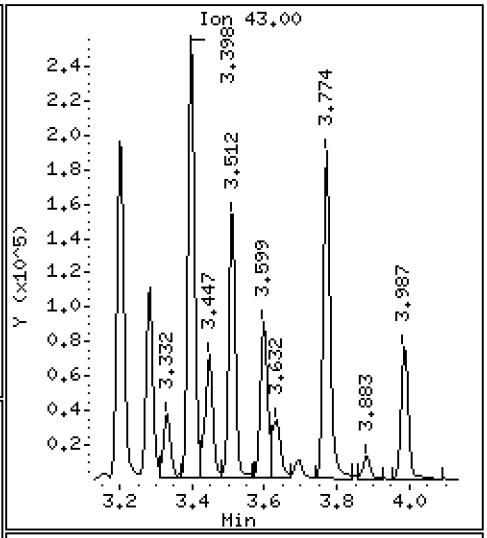
Sample Info: 2428716;;1;3;;LCS;1;

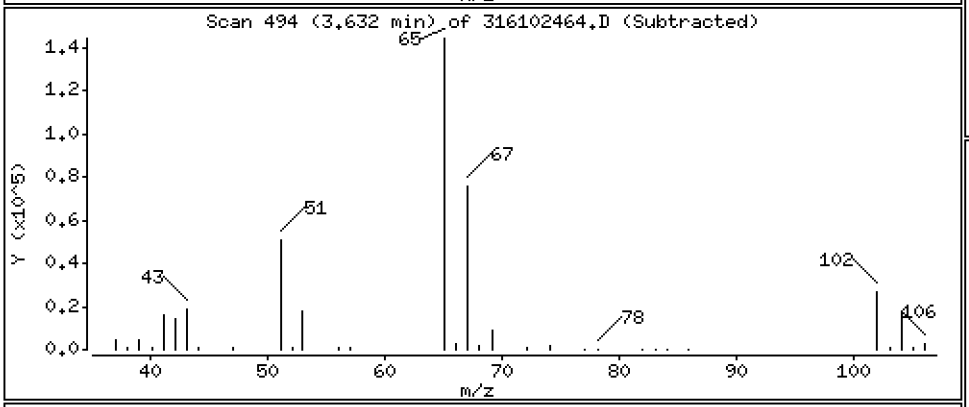
Purge Volume: 5.0 Operator: CJG

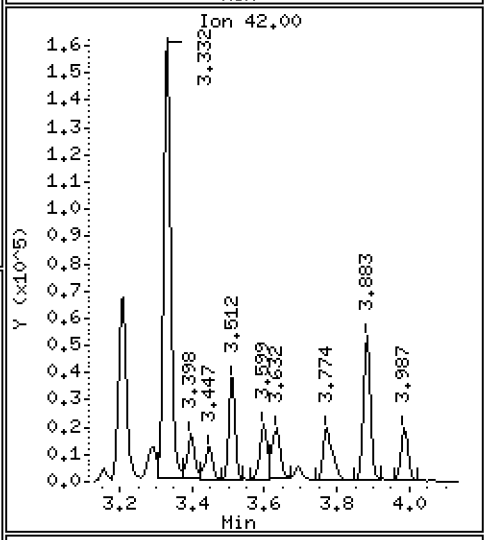
Column phase: DB-VRX Column diameter: 0.25

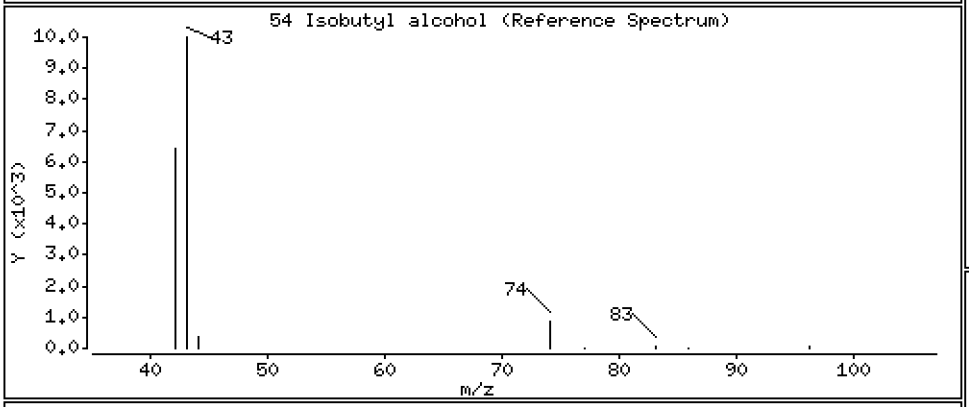
54 Isobutyl alcohol Concentration: 277.434 ug/L

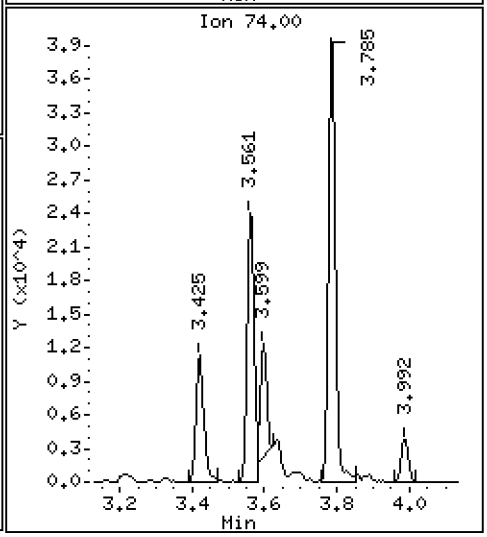


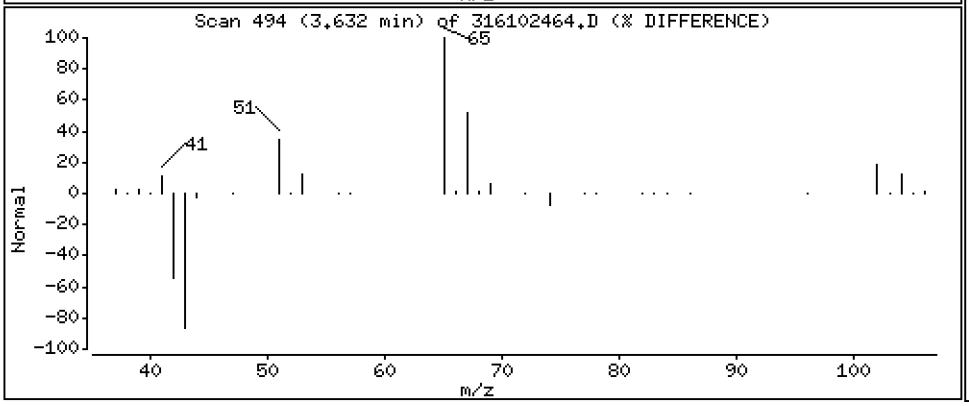












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 63

Date : 25-OCT-2016 03:26

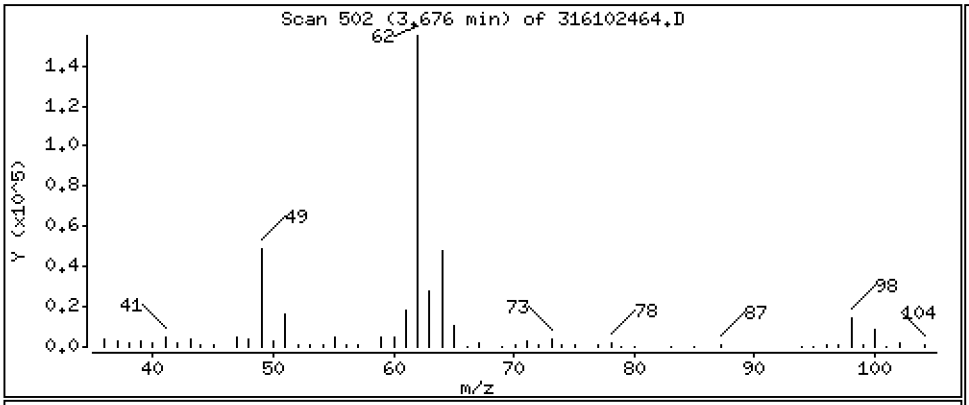
Client ID: LCS for HBN 174041 Instrument: ms03.i

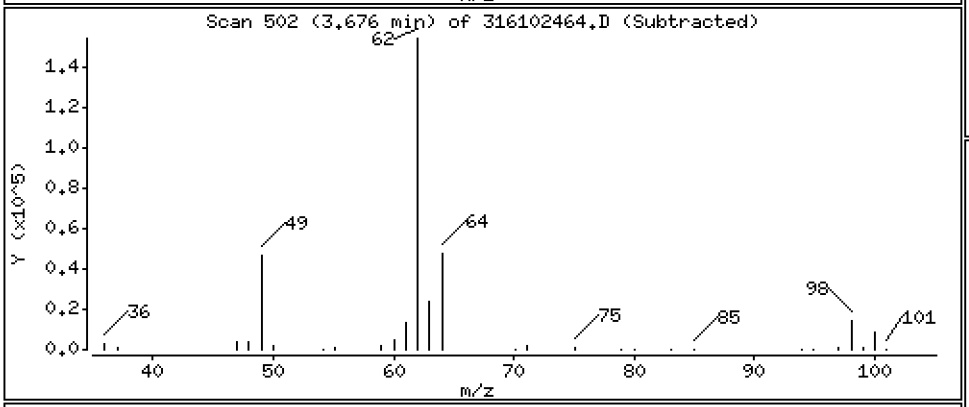
Sample Info: 2428716;;1;3;;LCS;1;

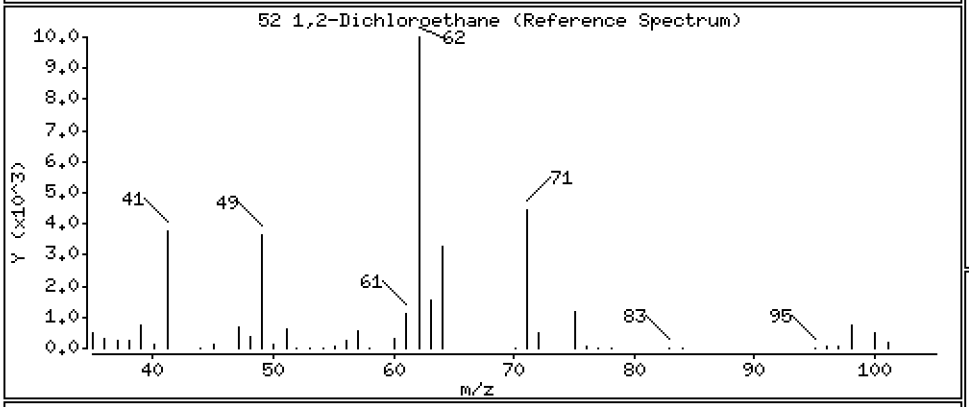
Purge Volume: 5.0 Operator: CJG

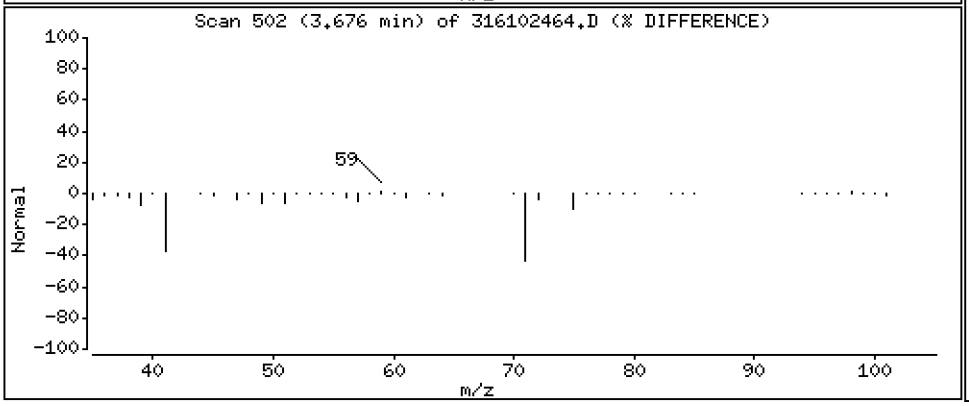
Column phase: DB-VRX Column diameter: 0.25

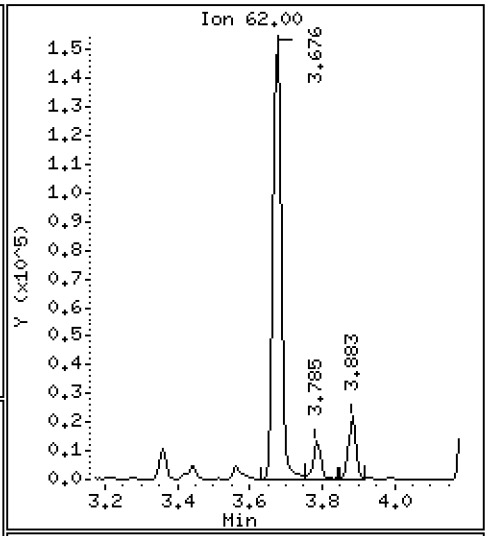
52 1,2-Dichloroethane Concentration: 18.3573 ug/L

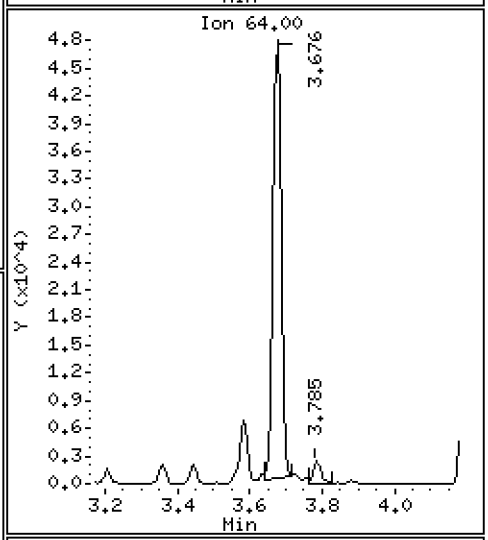


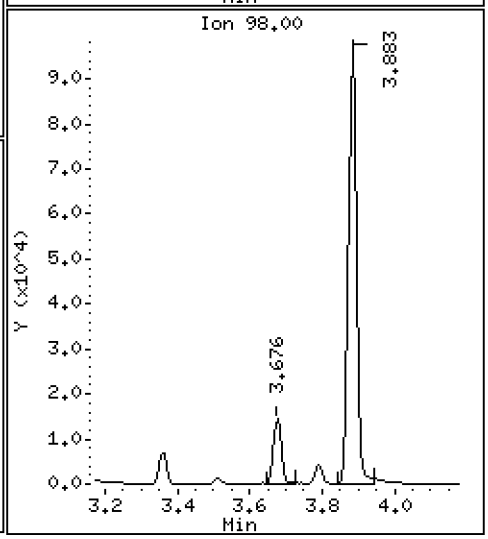












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 64

Date : 25-OCT-2016 03:26

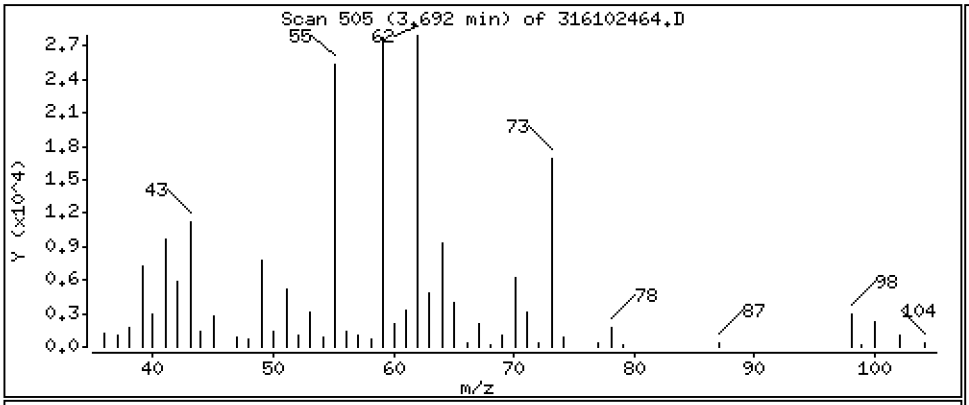
Client ID: LCS for HBN 174041 Instrument: ms03.i

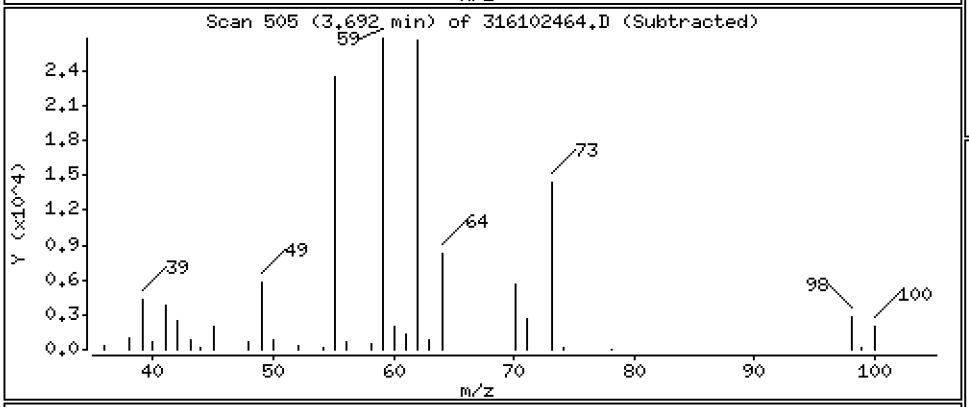
Sample Info: 2428716;;1;3;;LCS;1;

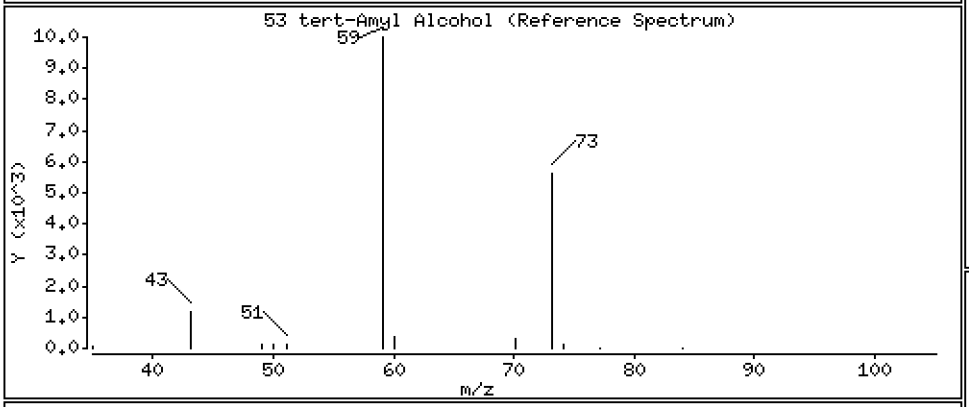
Purge Volume: 5.0 Operator: CJG

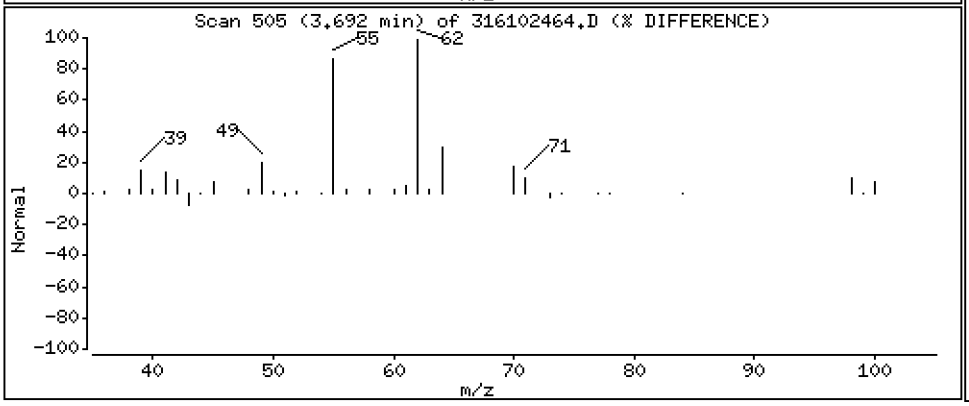
Column phase: DB-VRX Column diameter: 0.25

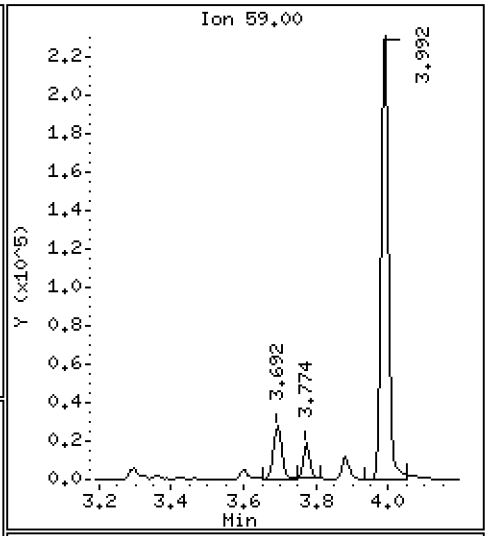
53 tert-Amyl Alcohol Concentration: 99.8941 ug/L

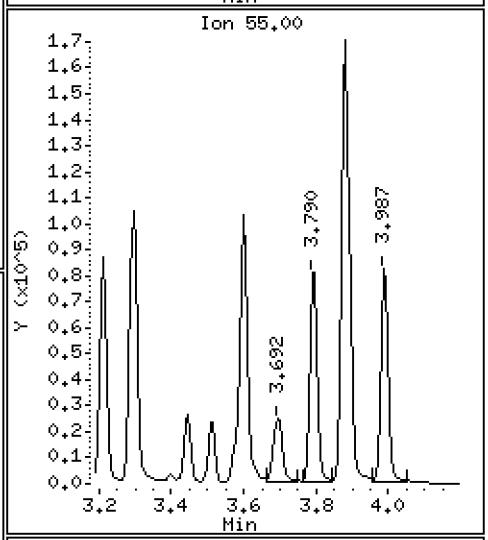


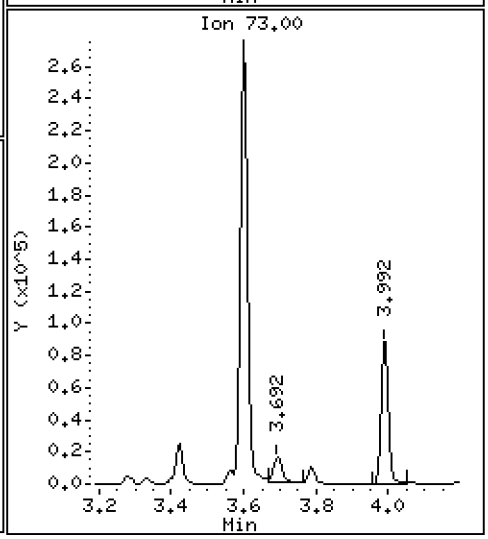












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 65

Date : 25-OCT-2016 03:26

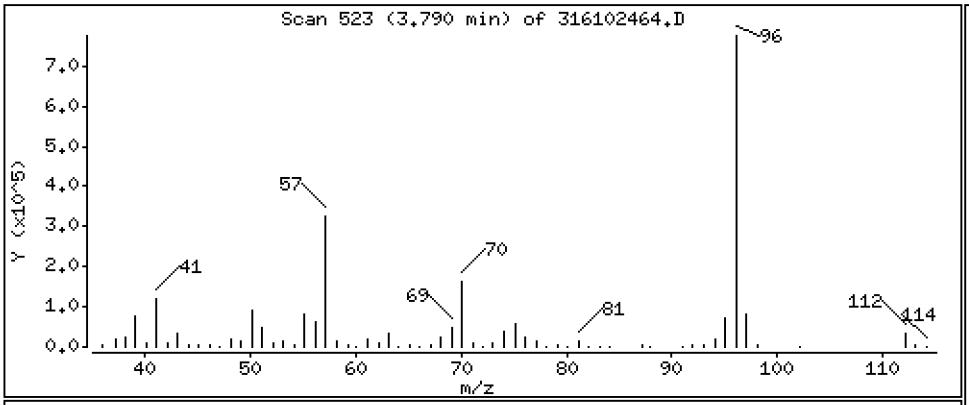
Client ID: LCS for HBN 174041 Instrument: ms03.i

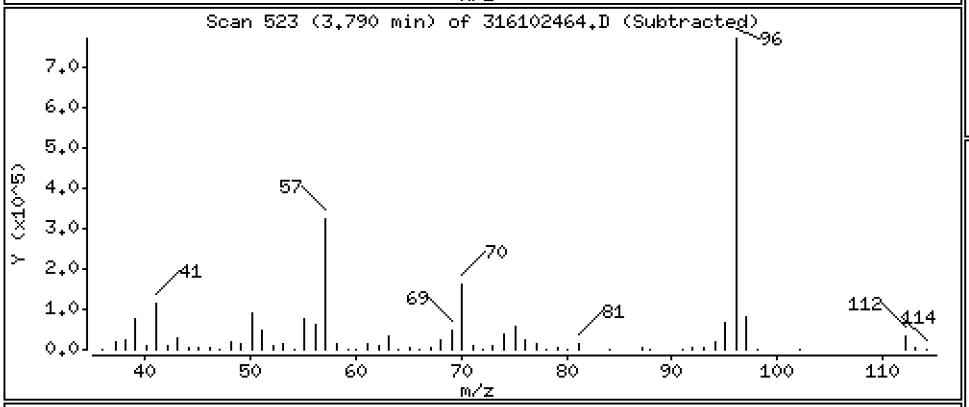
Sample Info: 2428716;;1;3;;LCS;1;

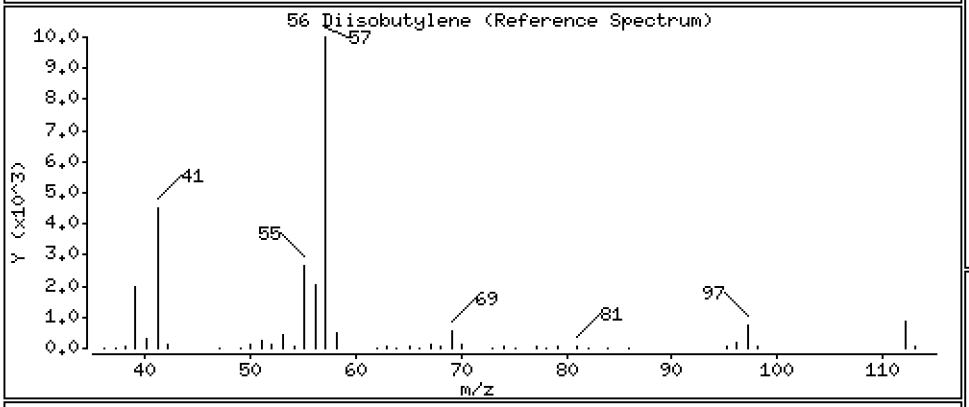
Purge Volume: 5.0 Operator: CJG

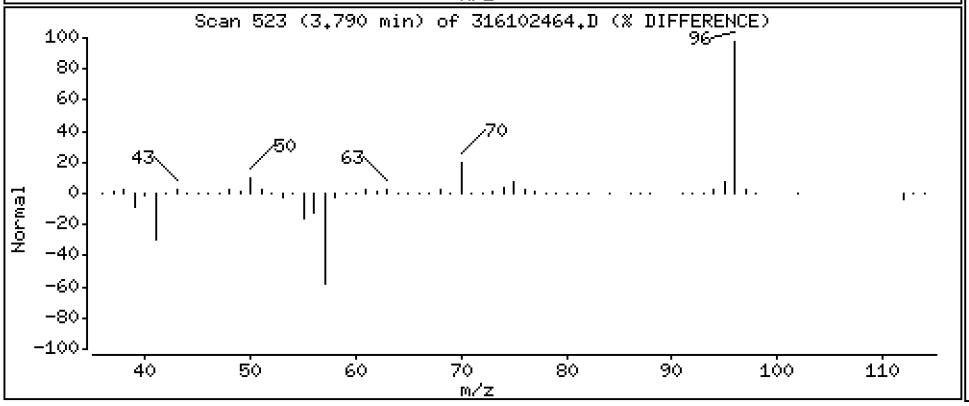
Column phase: DB-VRX Column diameter: 0.25

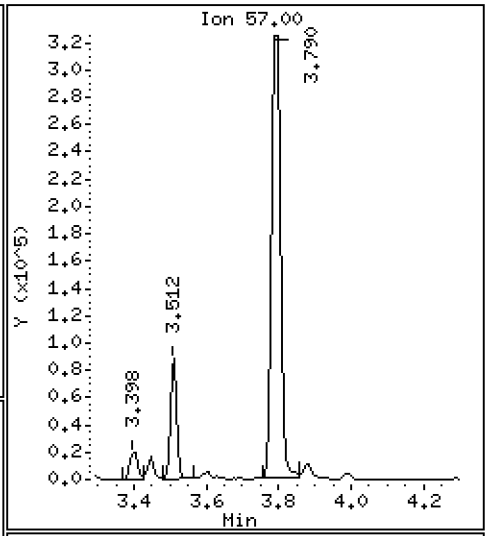
56 Diisobutylene Concentration: 22.1128 ug/L

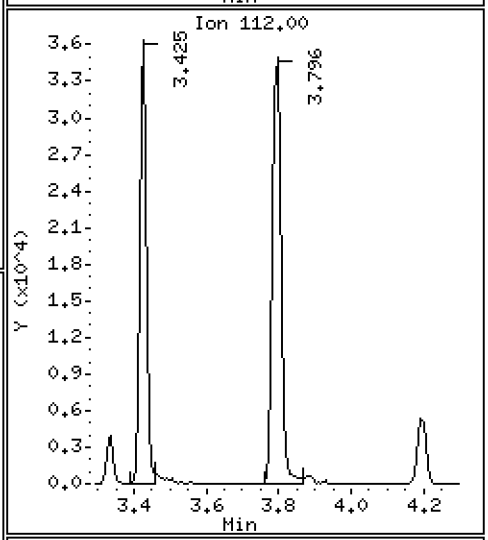


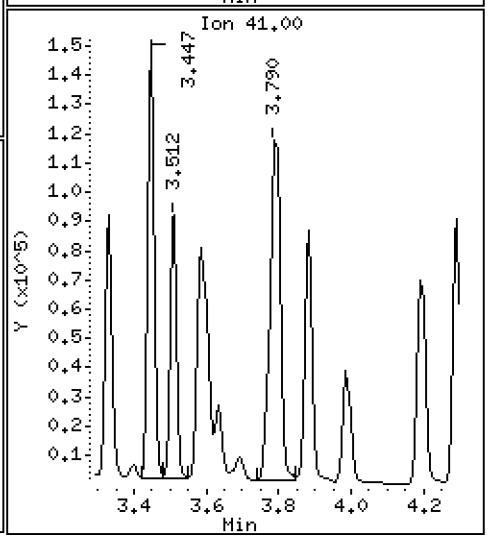












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 66

Date : 25-OCT-2016 03:26

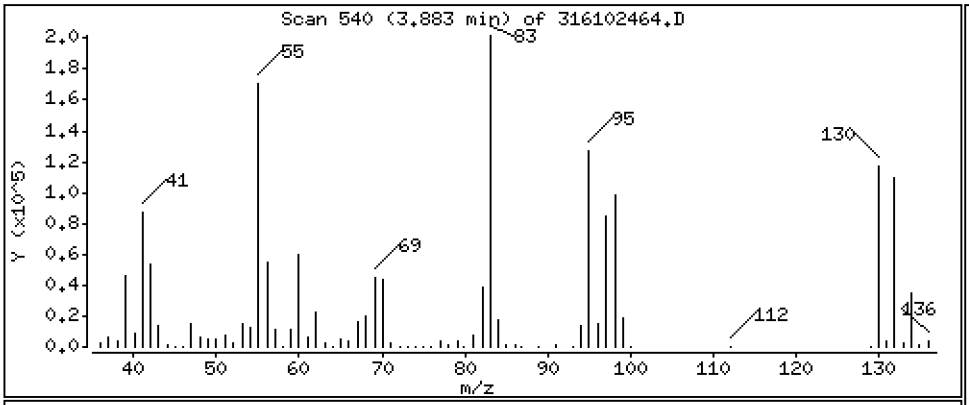
Client ID: LCS for HBN 174041 Instrument: ms03.i

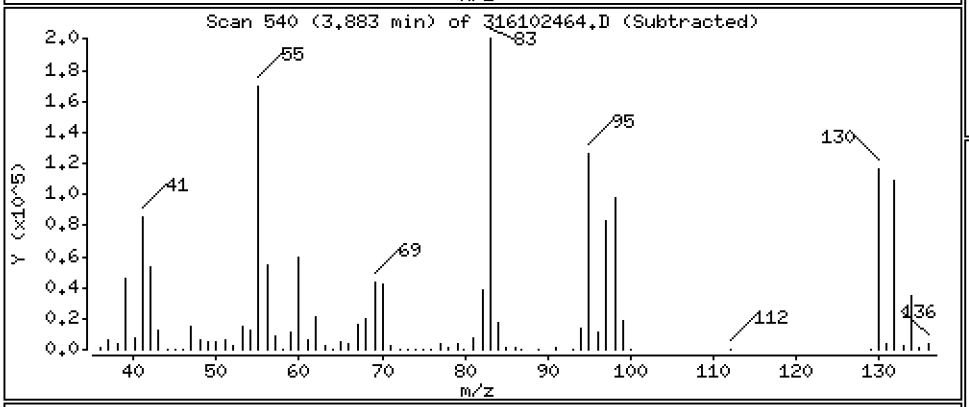
Sample Info: 2428716;;1;3;;LCS;1;

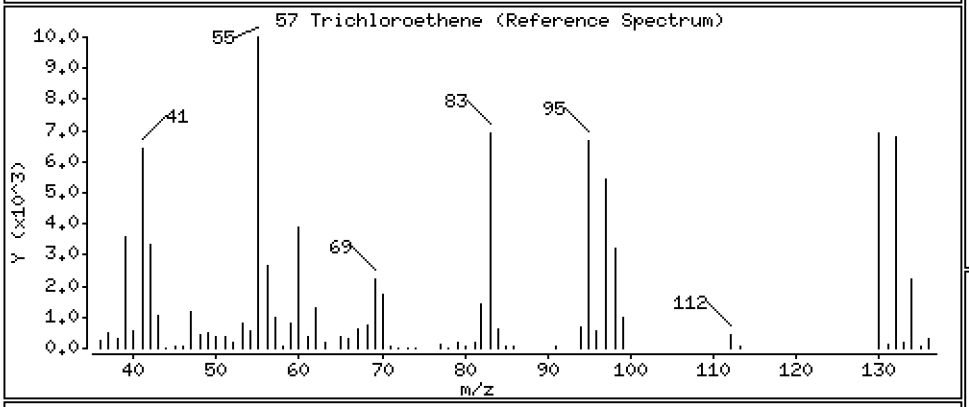
Purge Volume: 5.0 Operator: CJG

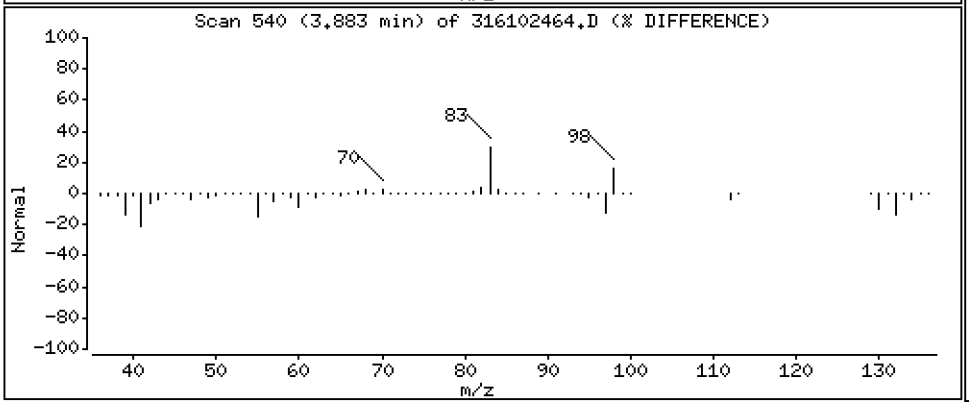
Column phase: DB-VRX Column diameter: 0.25

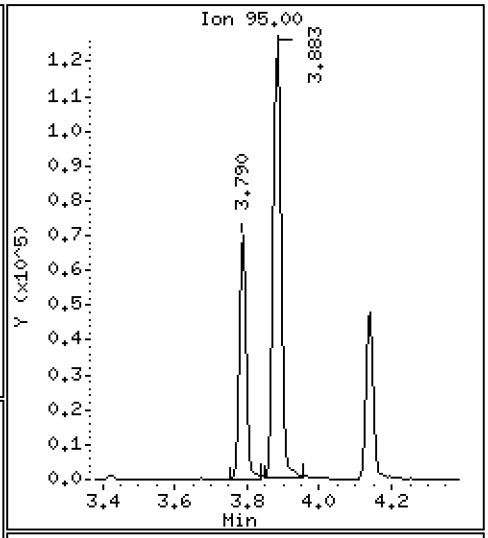
57 Trichloroethene Concentration: 17.6881 ug/L

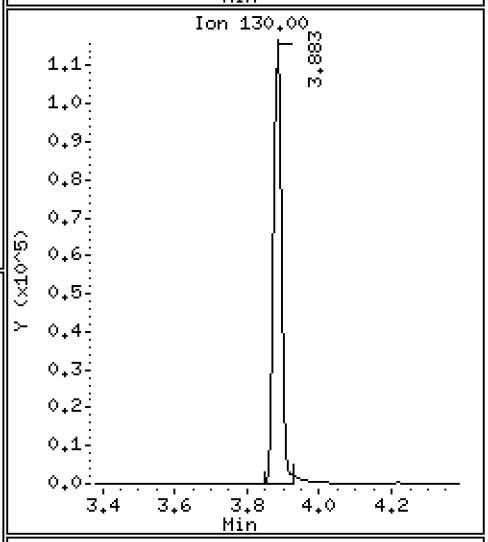


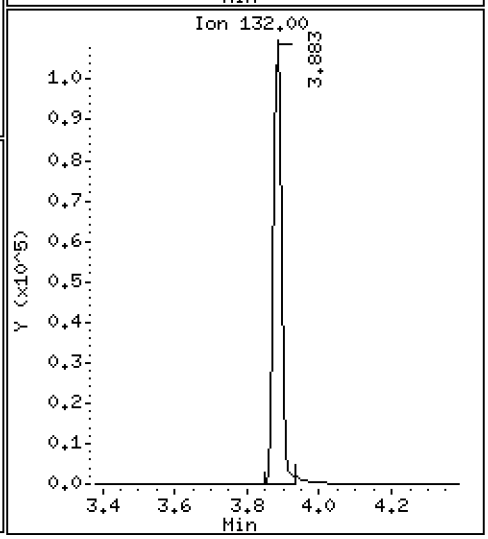












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 67

Date : 25-OCT-2016 03:26

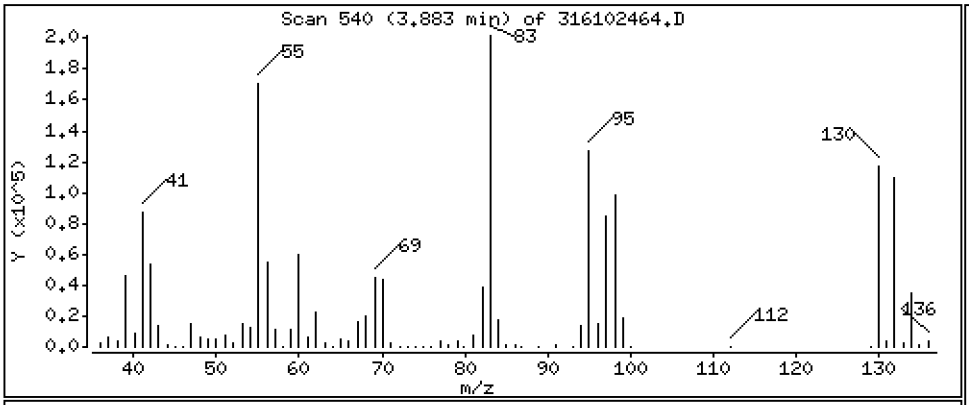
Client ID: LCS for HBN 174041 Instrument: ms03.i

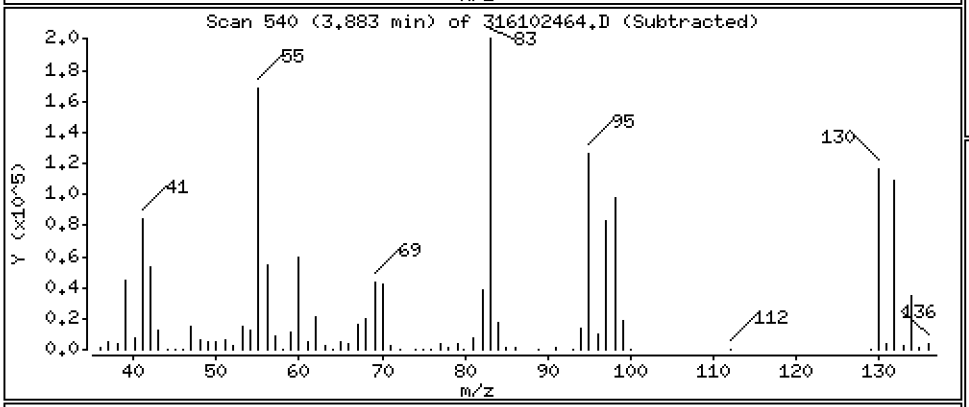
Sample Info: 2428716;;1;3;;LCS;1;

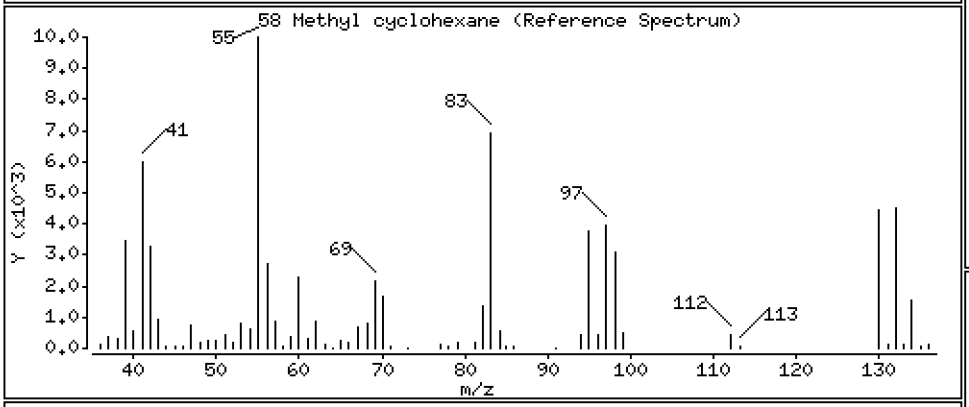
Purge Volume: 5.0 Operator: CJG

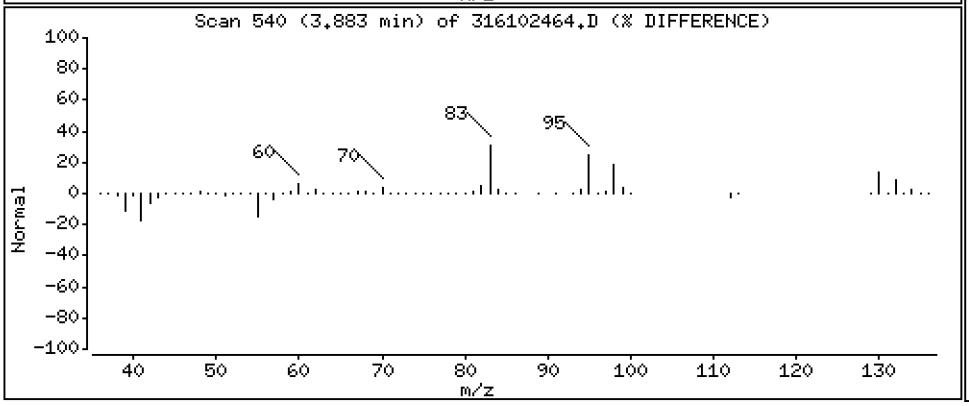
Column phase: DB-VRX Column diameter: 0.25

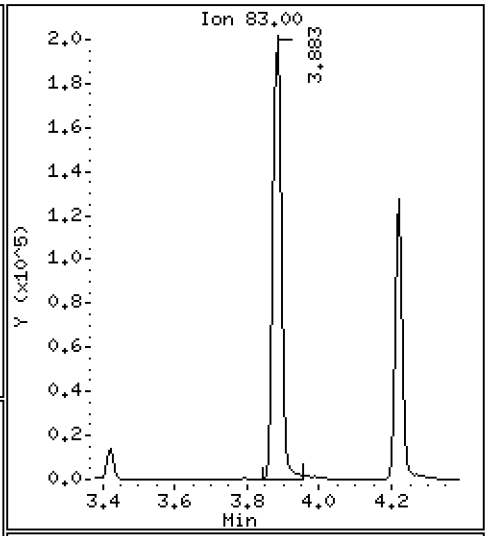
58 Methyl cyclohexane Concentration: 18.8439 ug/L

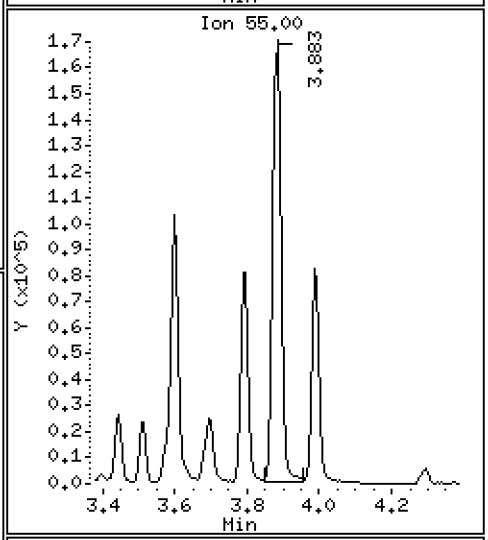


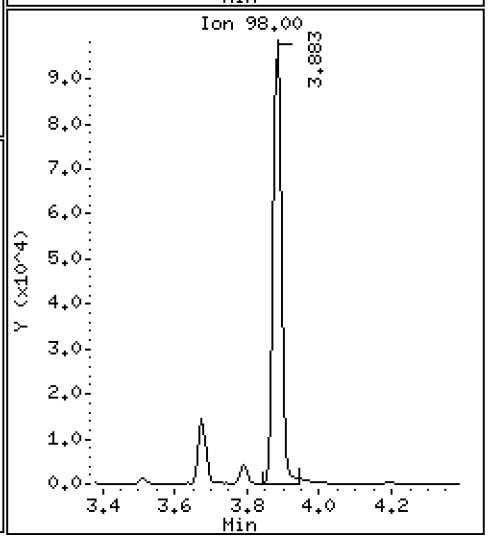












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 68

Date : 25-OCT-2016 03:26

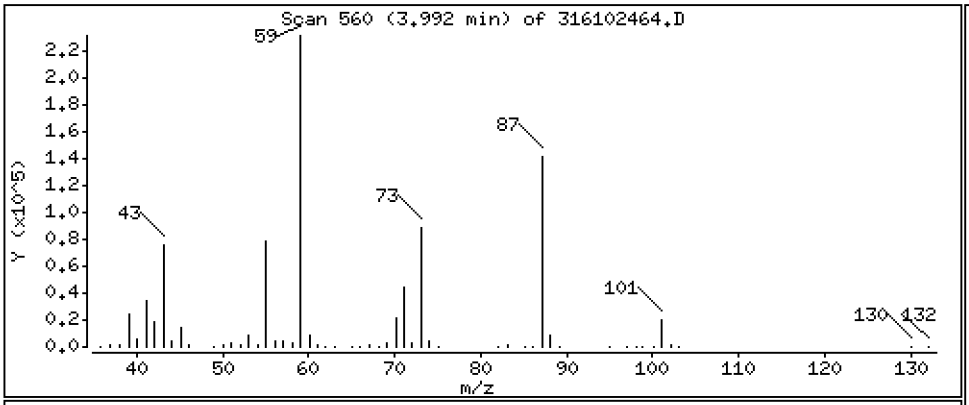
Client ID: LCS for HBN 174041 Instrument: ms03.i

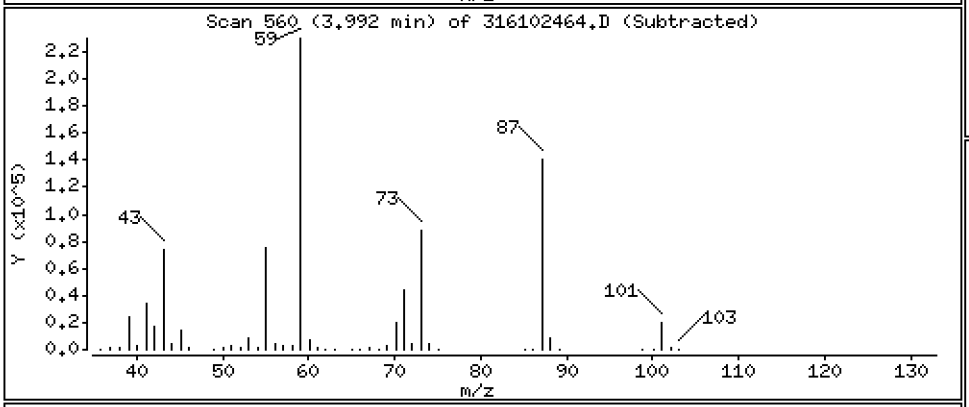
Sample Info: 2428716;;1;3;;LCS;1;

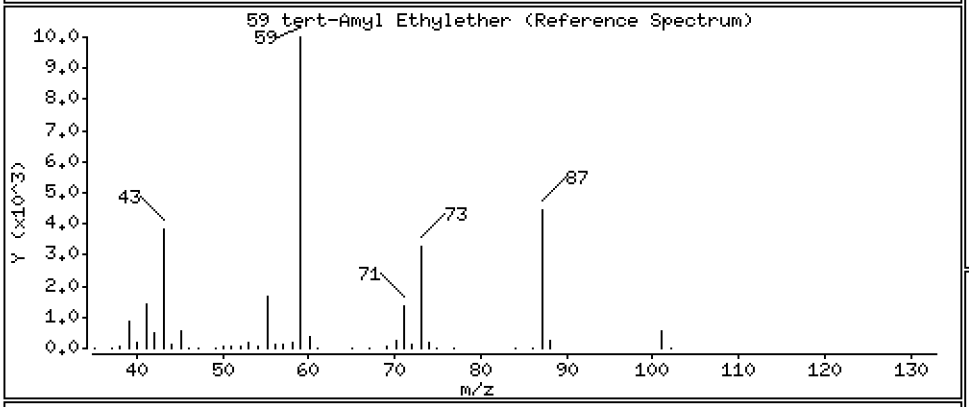
Purge Volume: 5.0 Operator: CJG

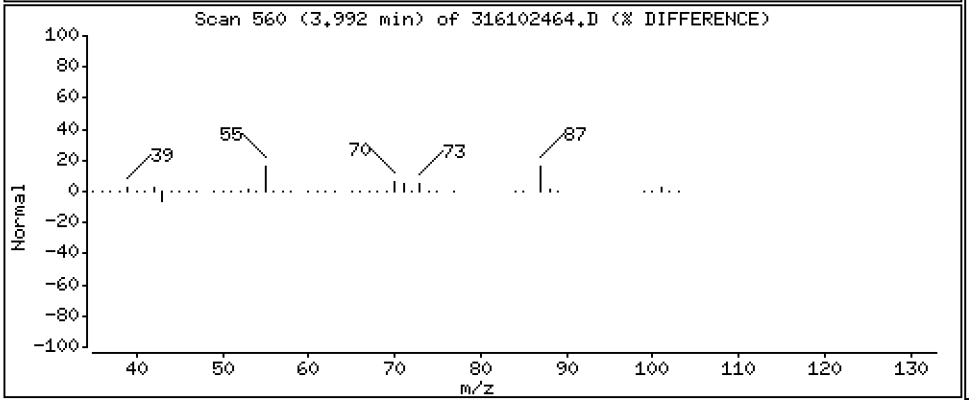
Column phase: DB-VRX Column diameter: 0.25

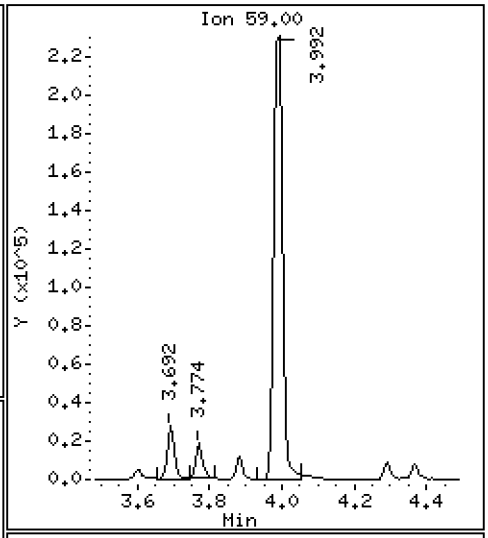
59 tert-Amyl Ethylether Concentration: 18.6427 ug/L

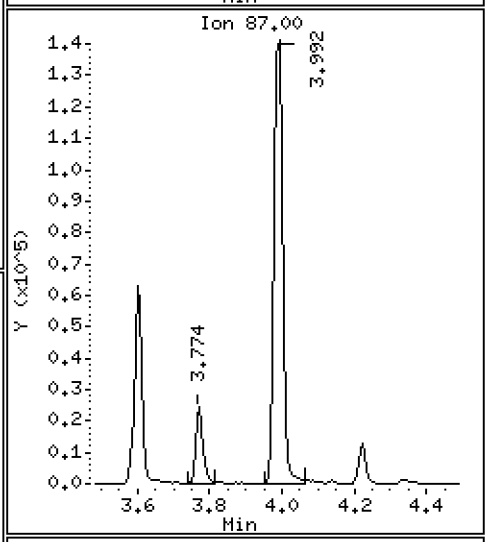


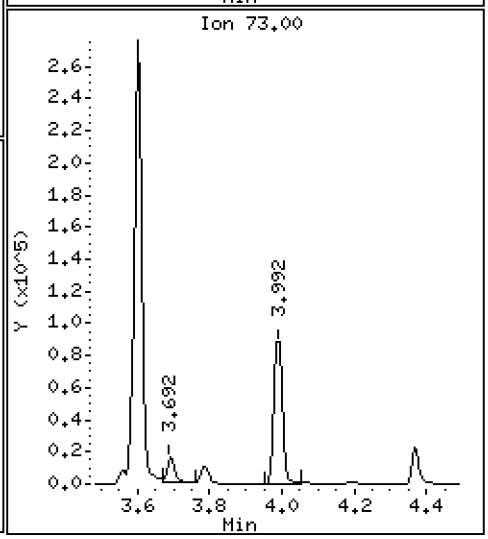












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 69

Date : 25-OCT-2016 03:26

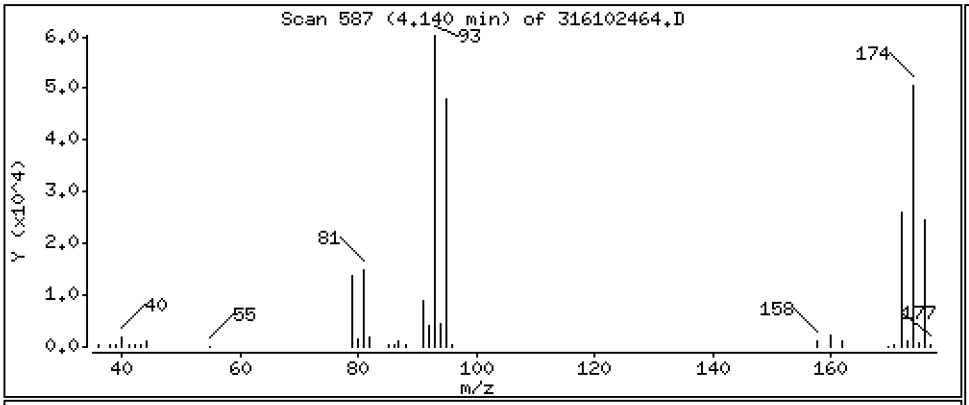
Client ID: LCS for HBN 174041 Instrument: ms03.i

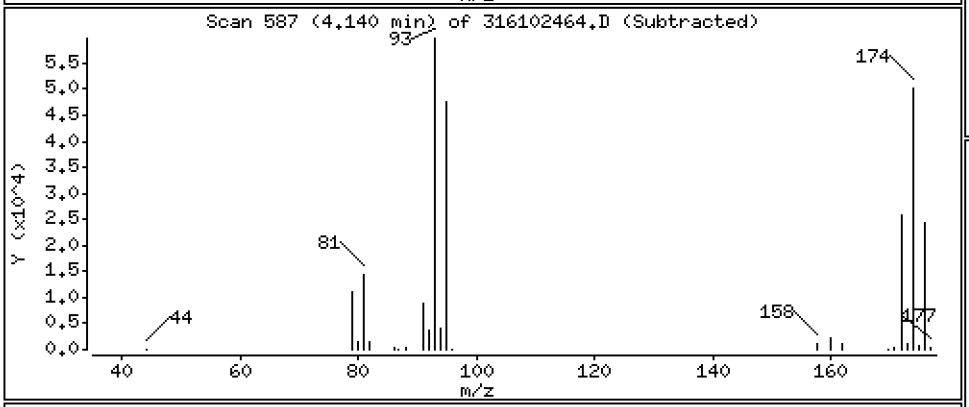
Sample Info: 2428716;;1;3;;LCS;1;

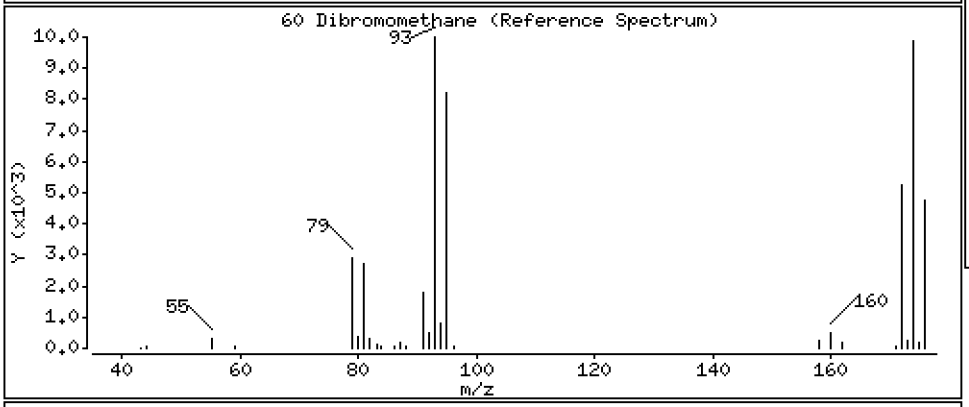
Purge Volume: 5.0 Operator: CJG

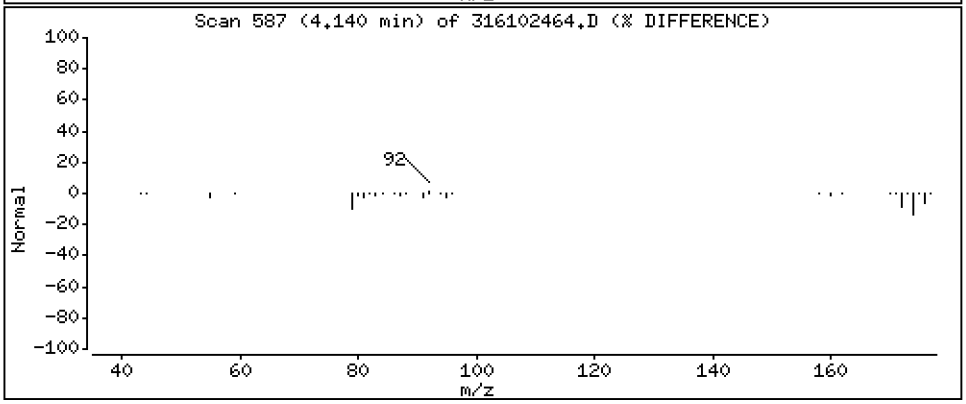
Column phase: DB-VRX Column diameter: 0.25

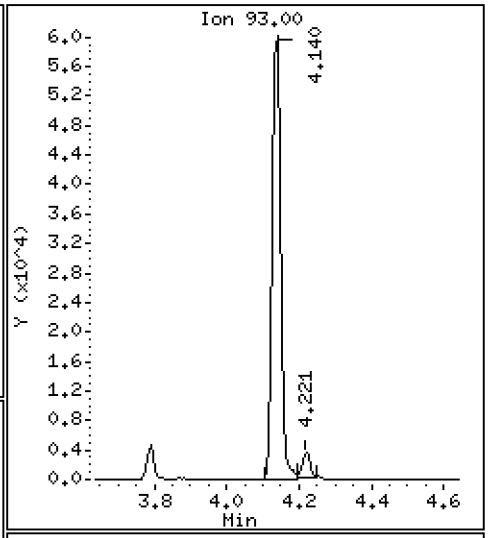
60 Dibromomethane Concentration: 17.7619 ug/L

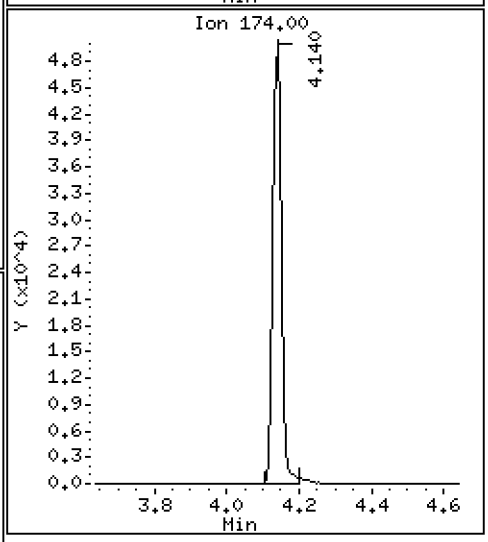












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 70

Date : 25-OCT-2016 03:26

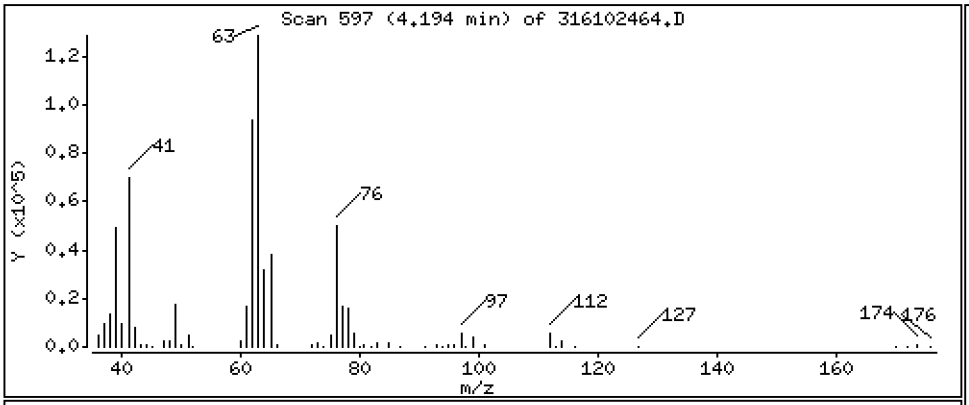
Client ID: LCS for HBN 174041 Instrument: ms03.i

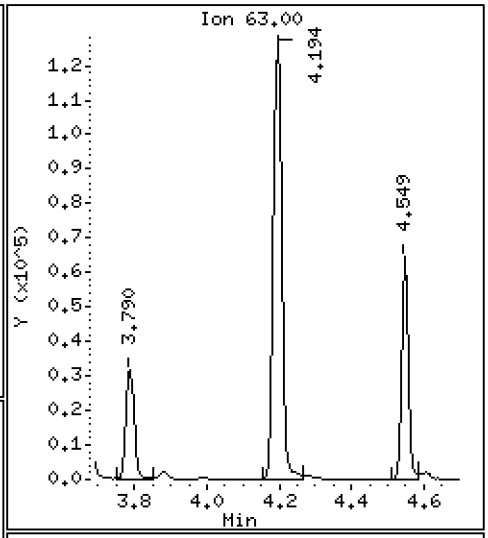
Sample Info: 2428716;;1;3;;LCS;1;

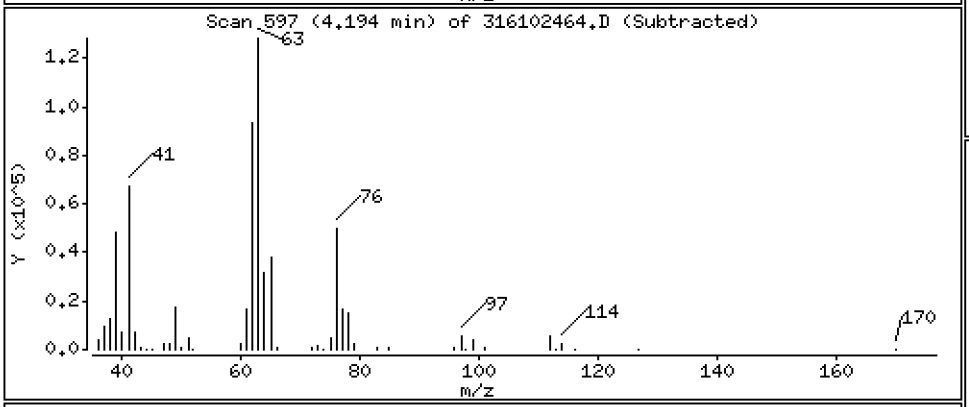
Purge Volume: 5.0 Operator: CJG

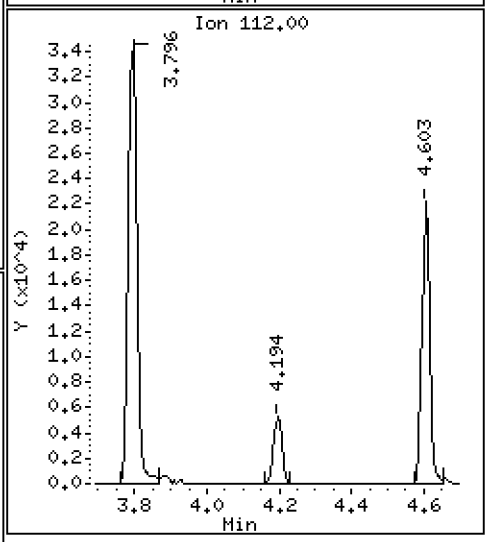
Column phase: DB-VRX Column diameter: 0.25

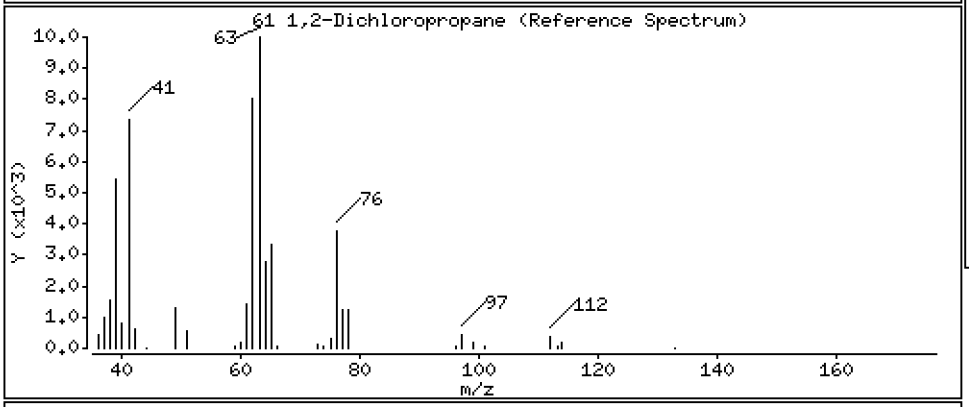
61 1,2-Dichloropropane Concentration: 18.9450 ug/L

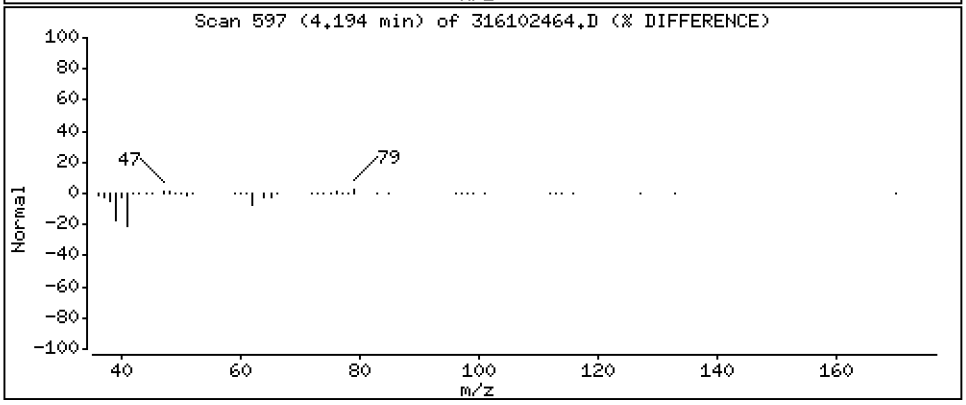












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 71

Date : 25-OCT-2016 03:26

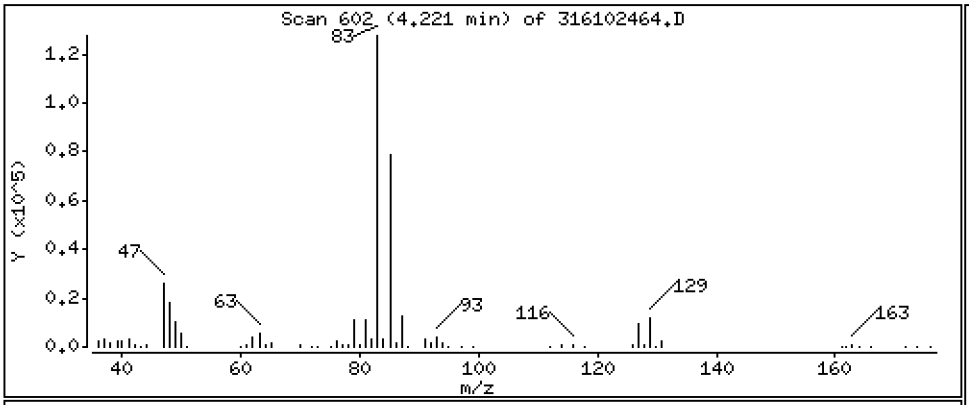
Client ID: LCS for HBN 174041 Instrument: ms03.i

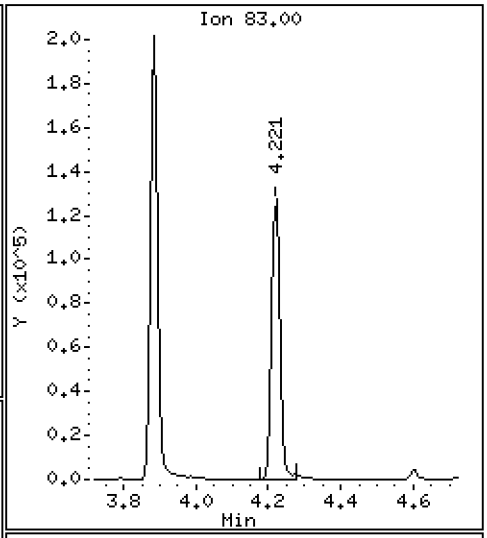
Sample Info: 2428716;;1;3;;LCS;1;

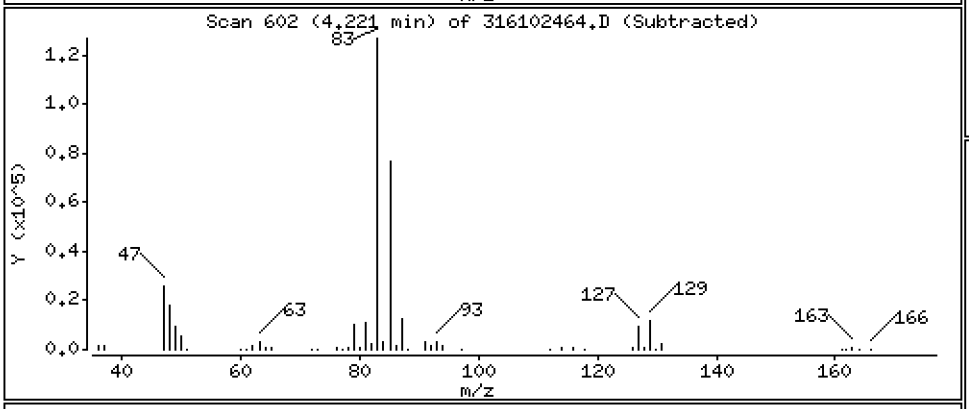
Purge Volume: 5.0 Operator: CJG

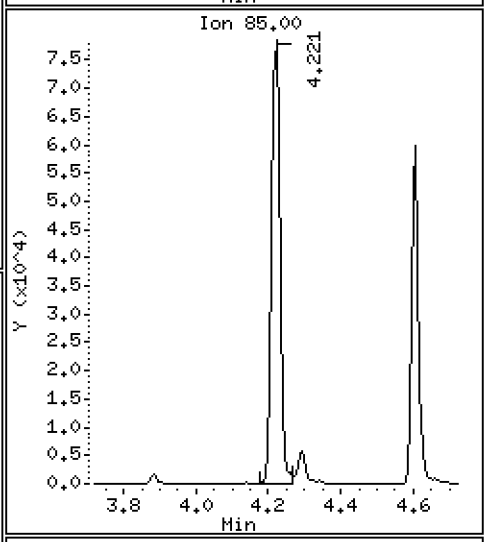
Column phase: DB-VRX Column diameter: 0.25

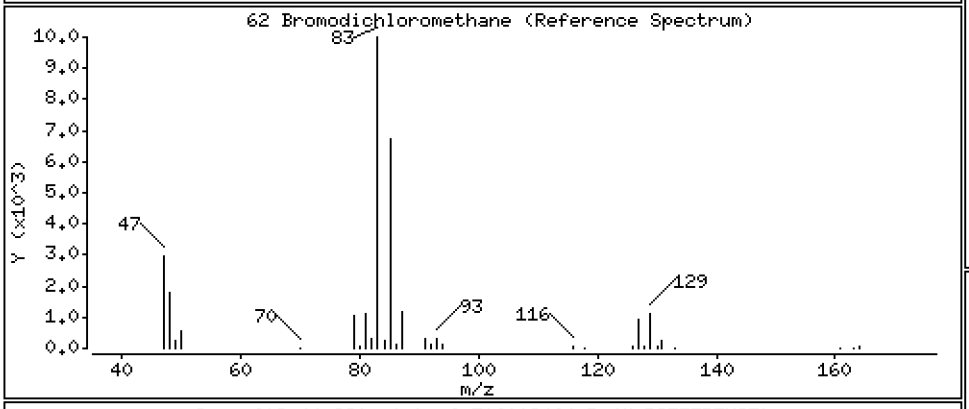
62 Bromodichloromethane Concentration: 18.5253 ug/L

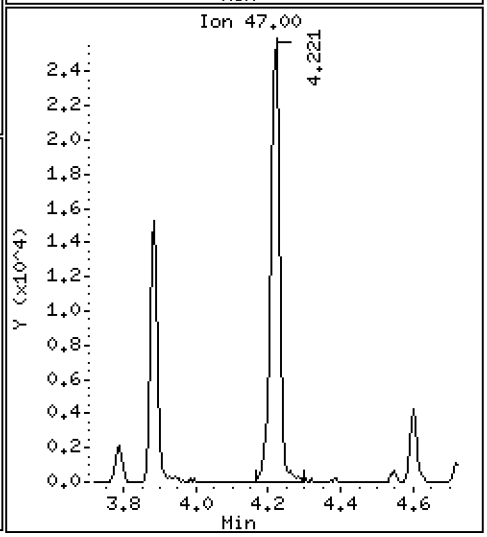


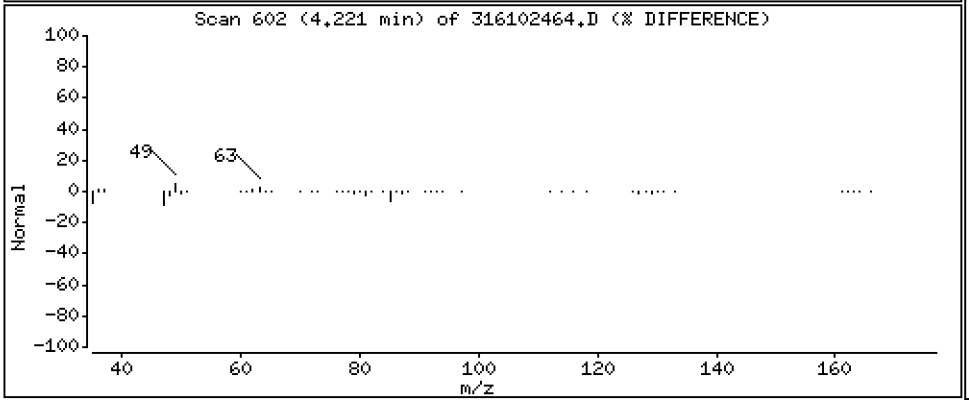












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 72

Date : 25-OCT-2016 03:26

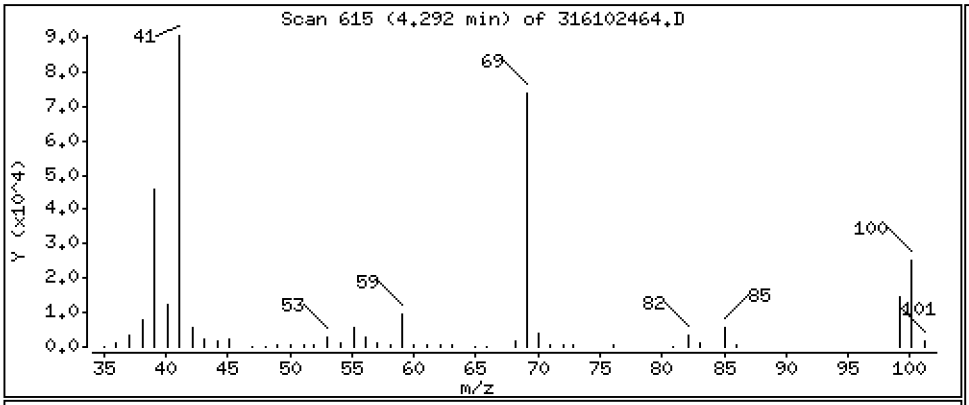
Client ID: LCS for HBN 174041 Instrument: ms03.i

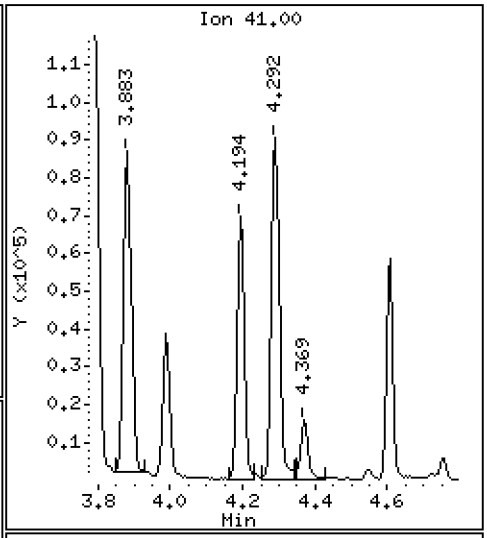
Sample Info: 2428716;;1;3;;LCS;1;

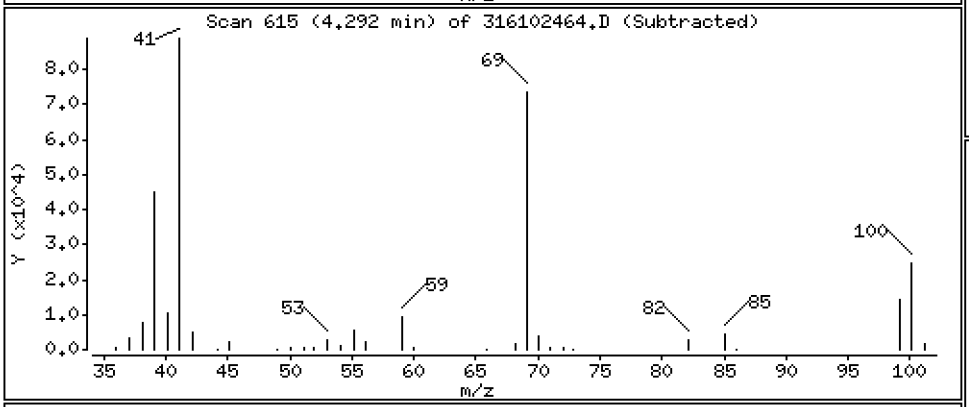
Purge Volume: 5.0 Operator: CJG

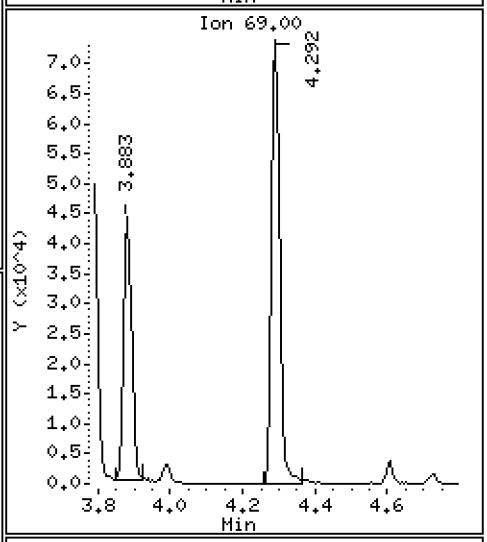
Column phase: DB-VRX Column diameter: 0.25

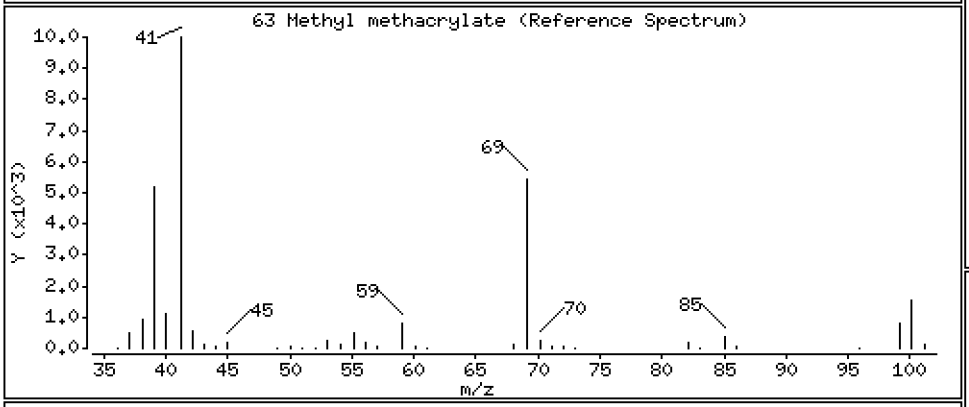
63 Methyl methacrylate Concentration: 18.7021 ug/L

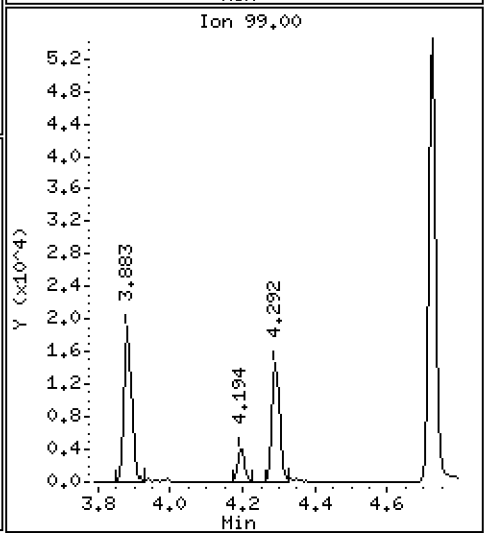


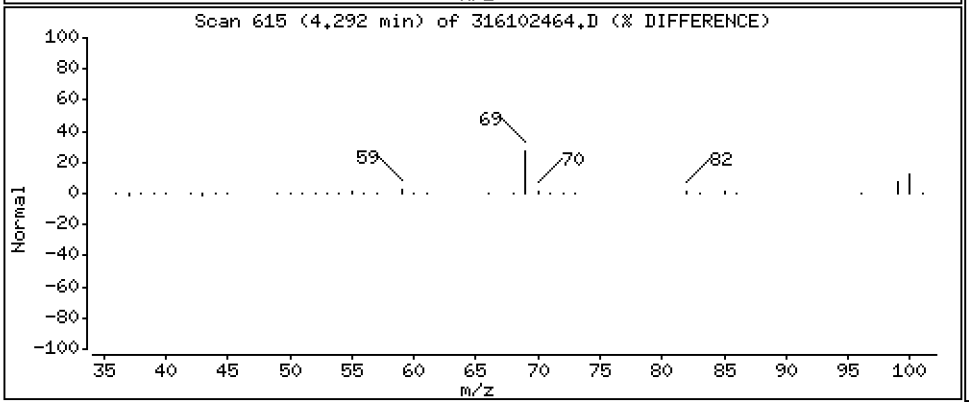












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 73

Date : 25-OCT-2016 03:26

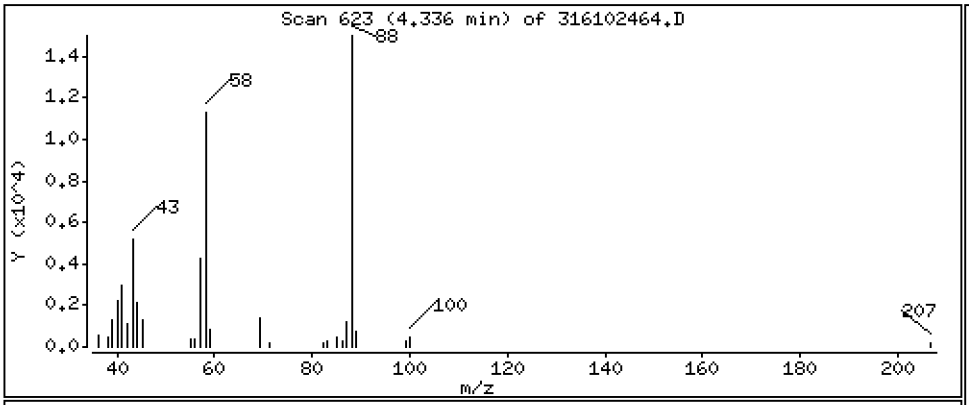
Client ID: LCS for HBN 174041 Instrument: ms03.i

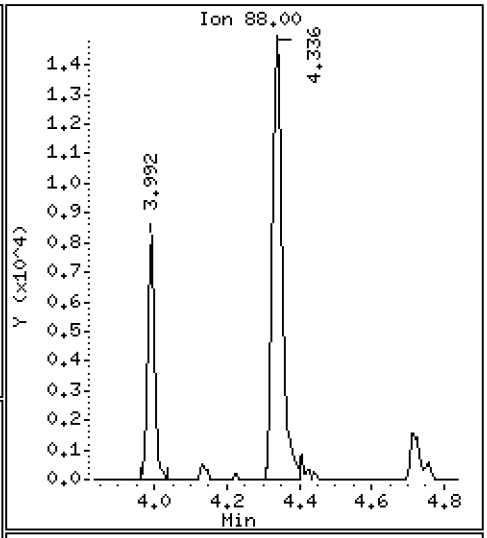
Sample Info: 2428716;;1;3;;LCS;1;

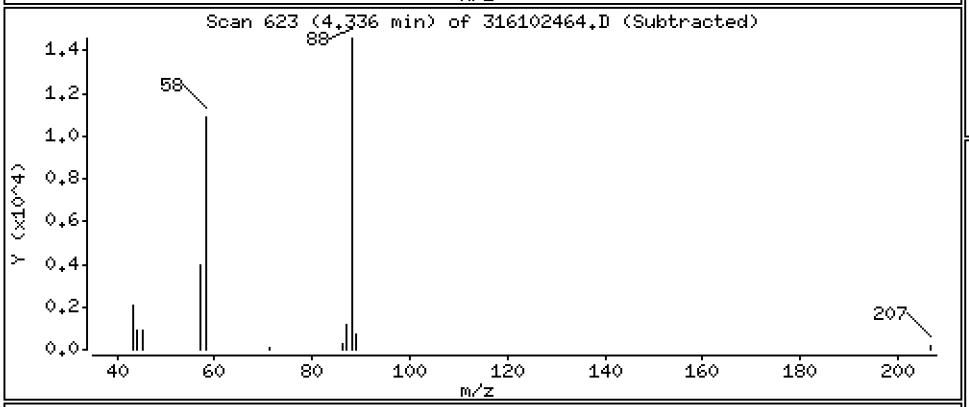
Purge Volume: 5.0 Operator: CJG

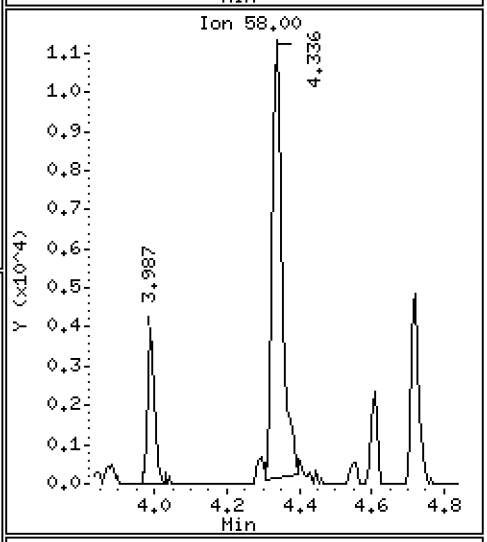
Column phase: DB-VRX Column diameter: 0.25

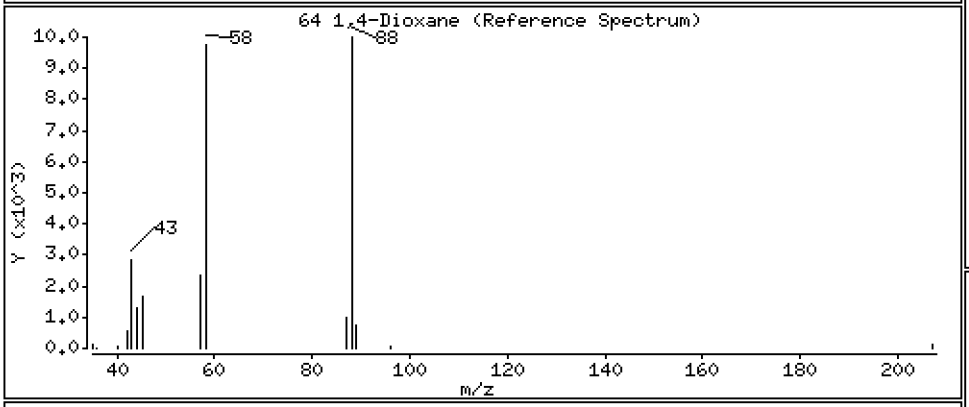
64 1,4-Dioxane Concentration: 786.828 ug/L

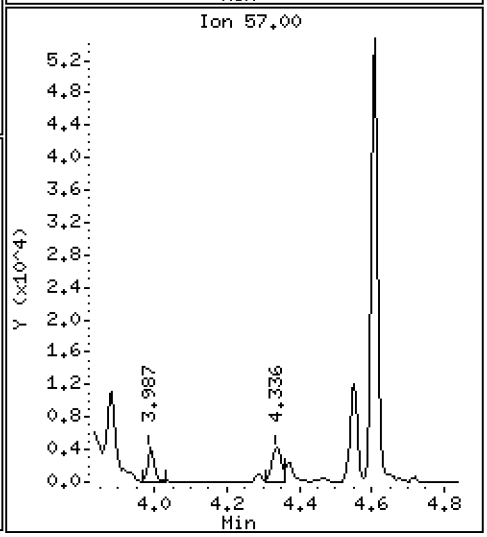


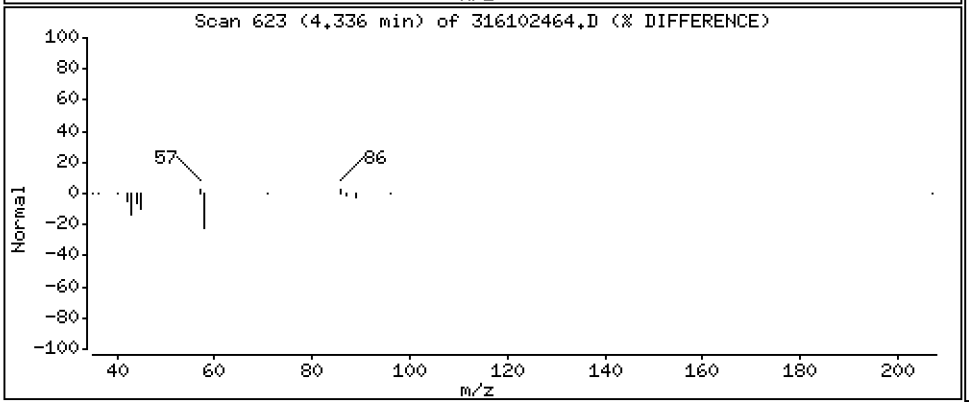












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 74

Date : 25-OCT-2016 03:26

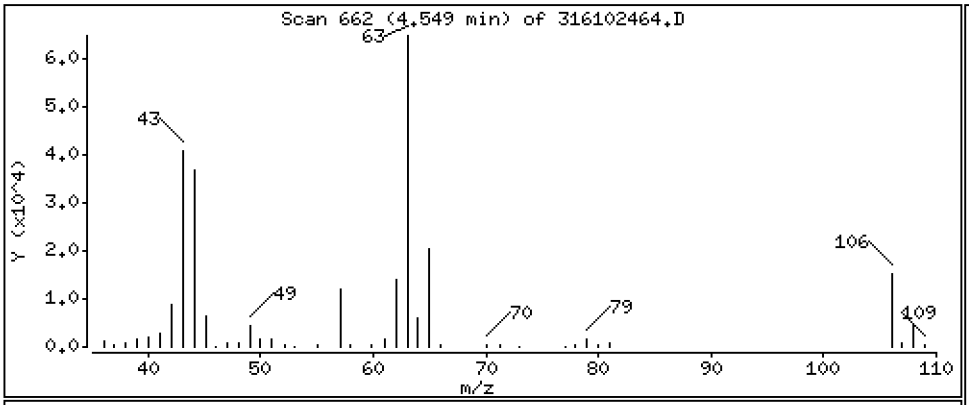
Client ID: LCS for HBN 174041 Instrument: ms03.i

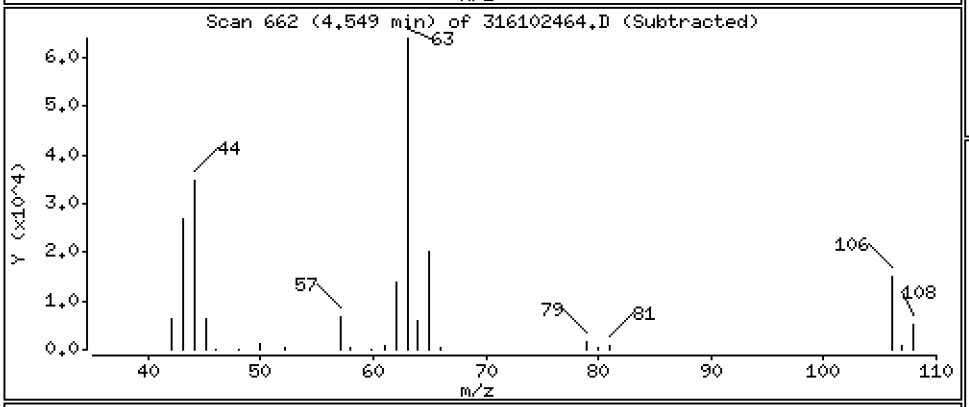
Sample Info: 2428716;;1;3;;LCS;1;

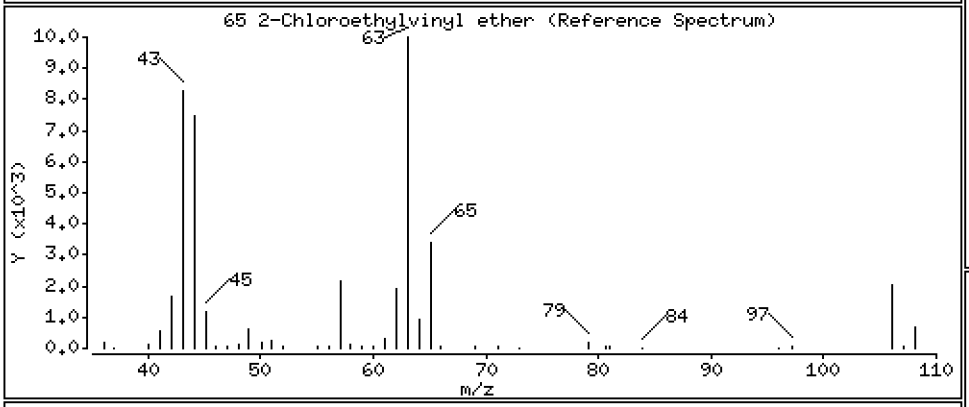
Purge Volume: 5.0 Operator: CJG

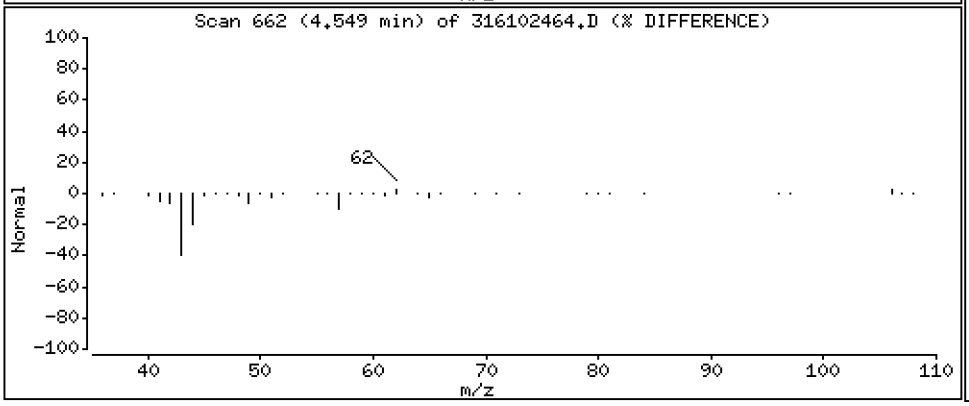
Column phase: DB-VRX Column diameter: 0.25

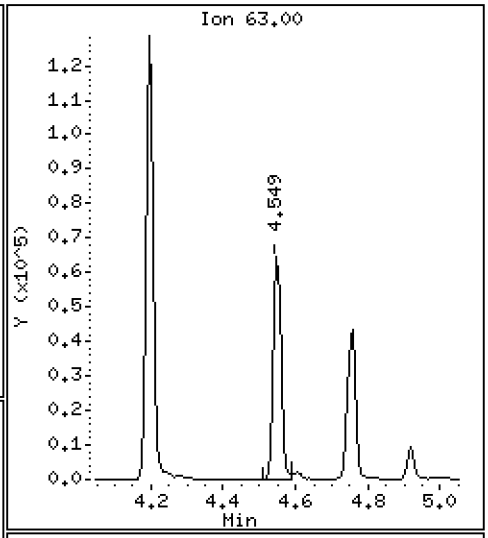
65 2-Chloroethylvinyl ether Concentration: 17.8853 ug/L

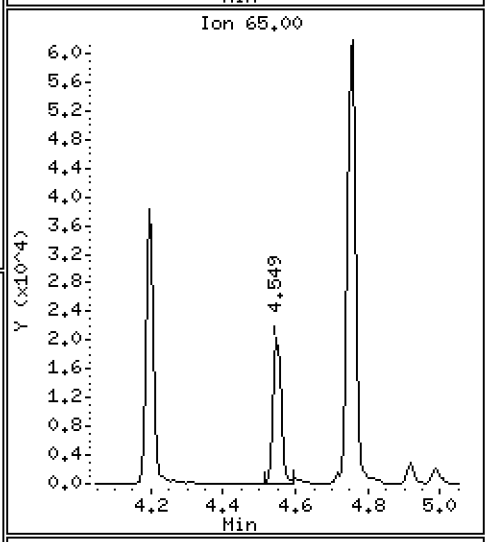


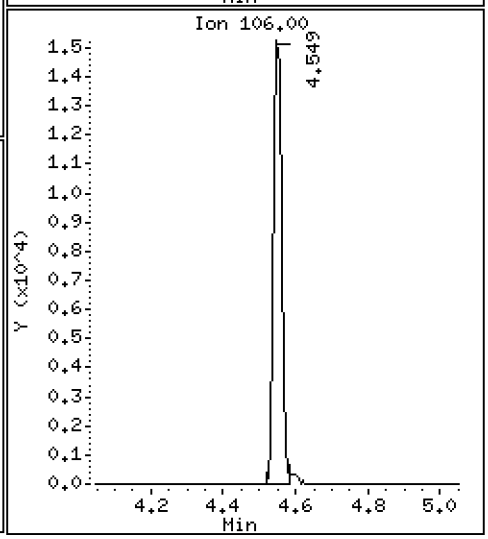












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 75

Date : 25-OCT-2016 03:26

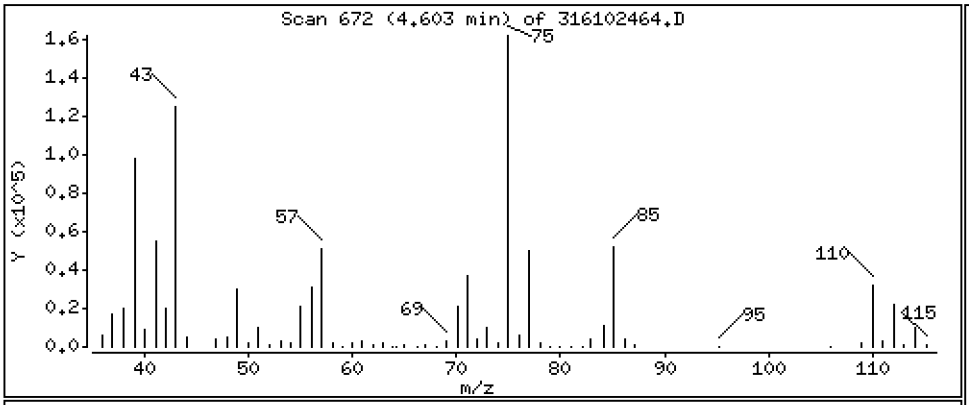
Client ID: LCS for HBN 174041 Instrument: ms03.i

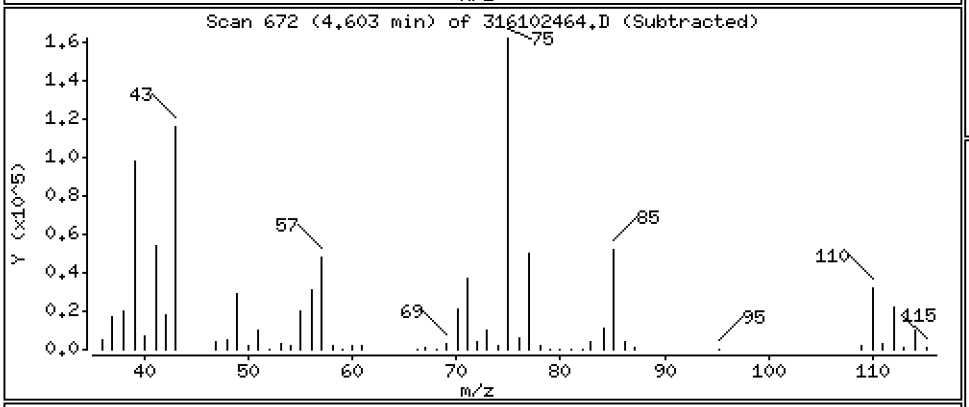
Sample Info: 2428716;;1;3;;LCS;1;

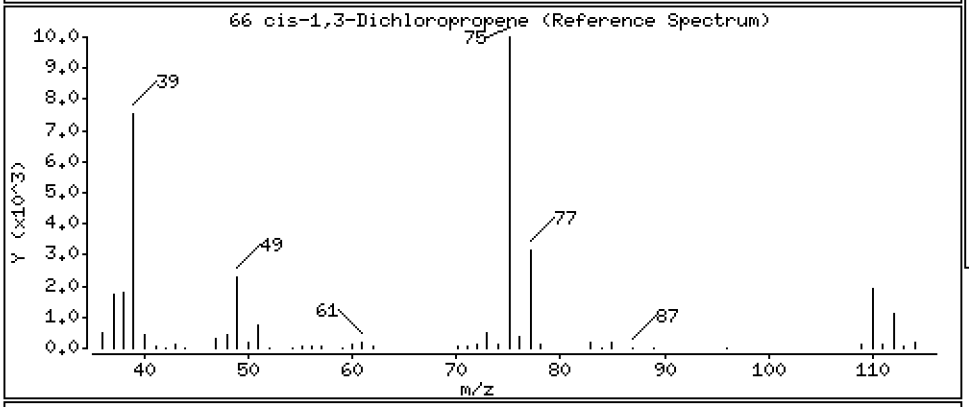
Purge Volume: 5.0 Operator: CJG

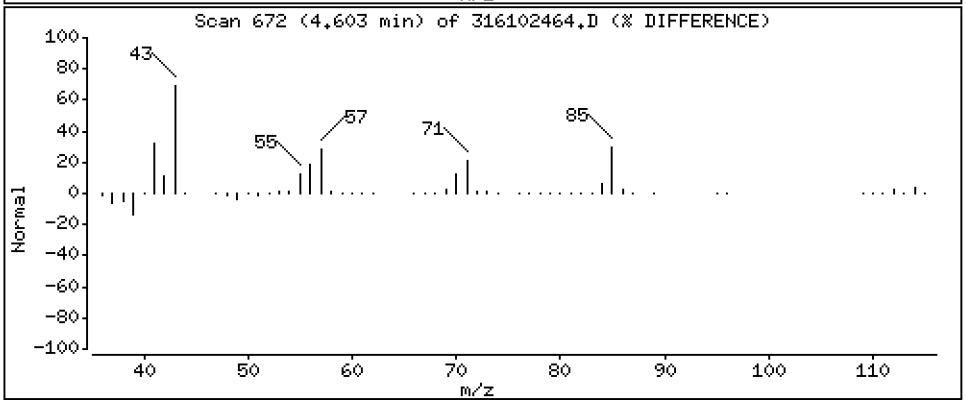
Column phase: DB-VRX Column diameter: 0.25

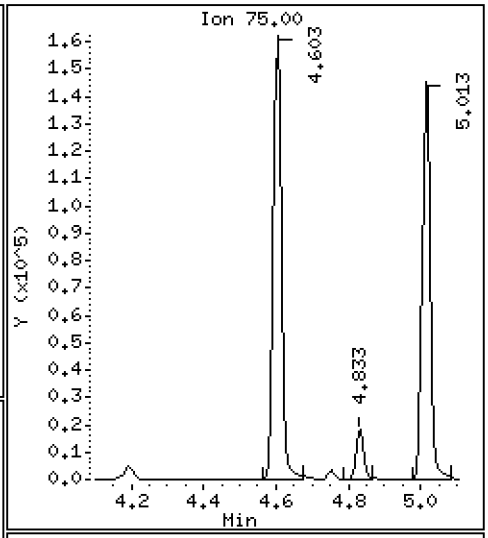
66 cis-1,3-Dichloropropene Concentration: 17.9139 ug/L

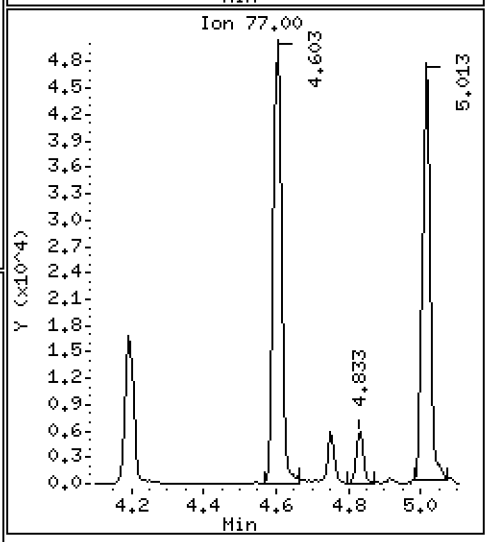












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 76

Date : 25-OCT-2016 03:26

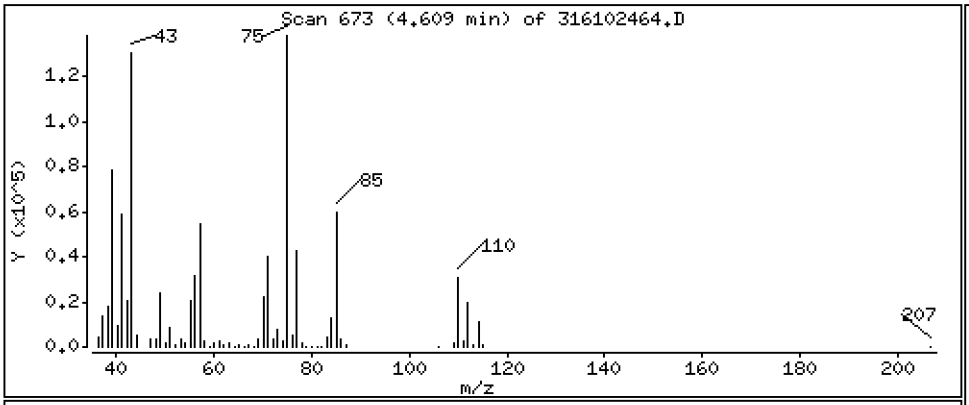
Client ID: LCS for HBN 174041 Instrument: ms03.i

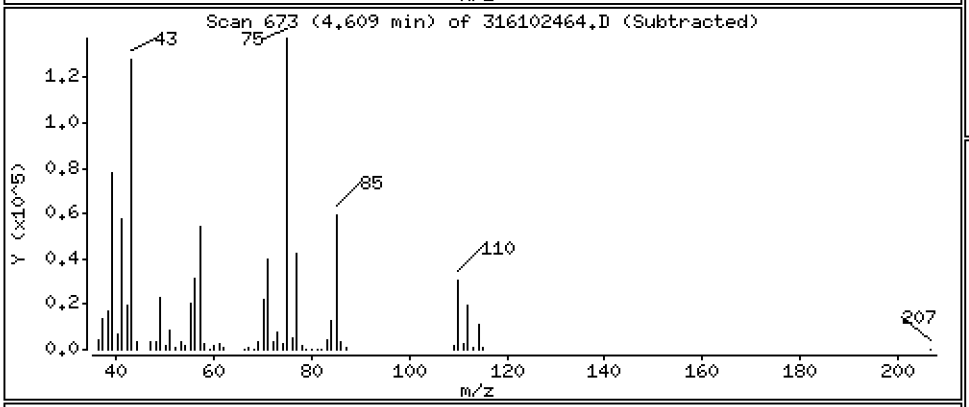
Sample Info: 2428716;;1;3;;LCS;1;

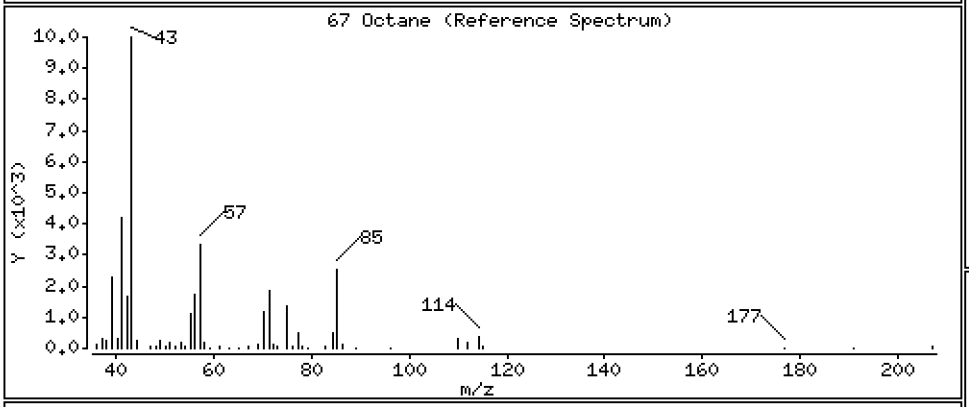
Purge Volume: 5.0 Operator: CJG

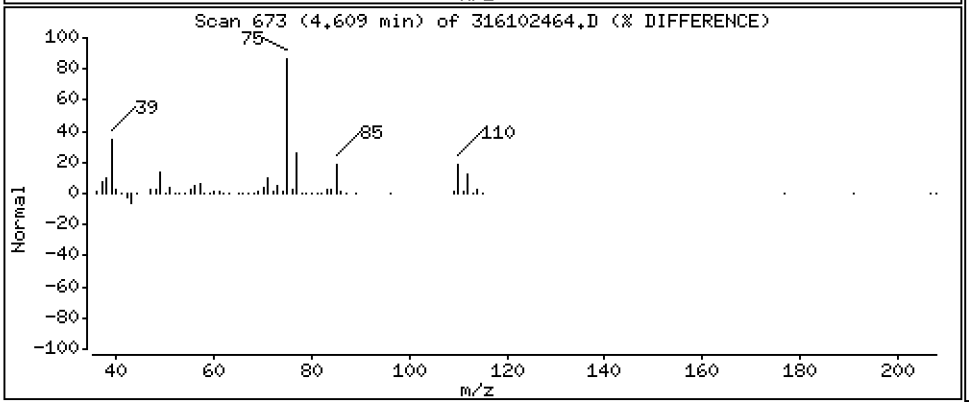
Column phase: DB-VRX Column diameter: 0.25

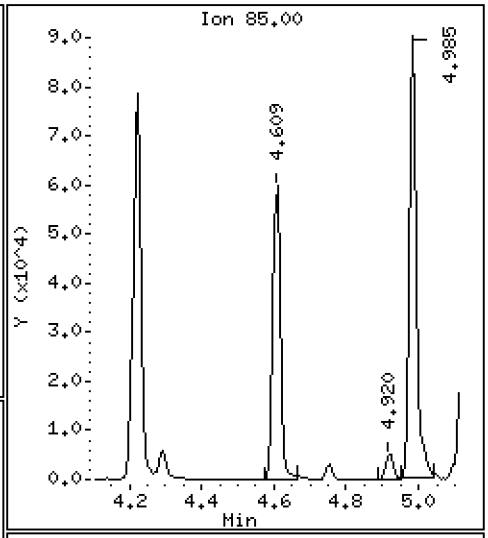
67 Octane Concentration: 20.2594 ug/L

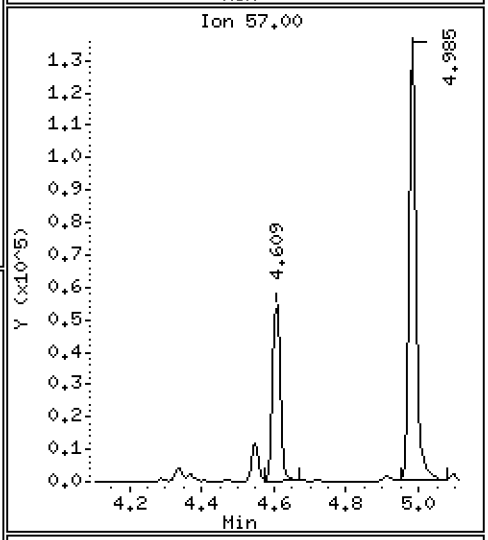


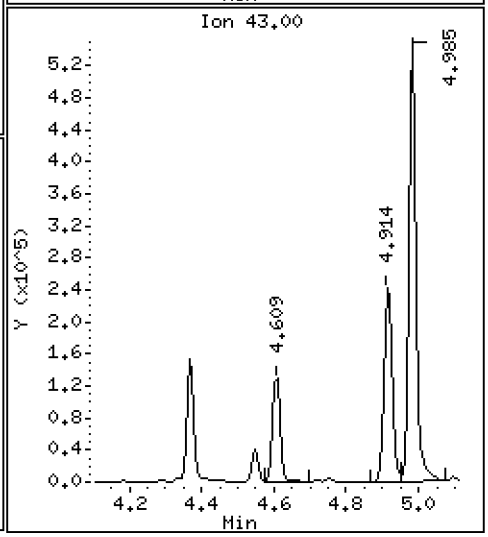












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 77

Date : 25-OCT-2016 03:26

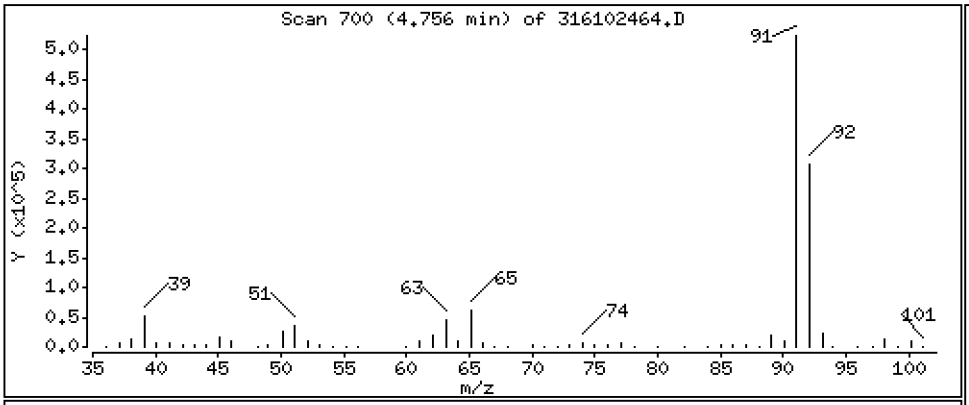
Client ID: LCS for HBN 174041 Instrument: ms03.i

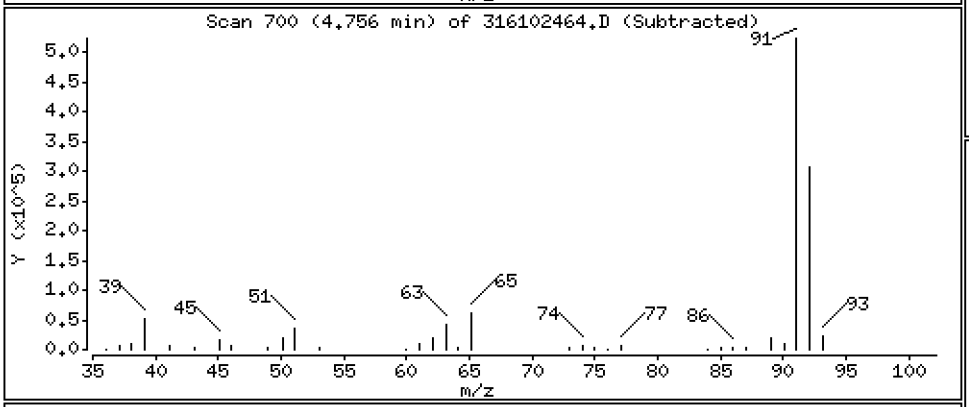
Sample Info: 2428716;;1;3;;LCS;1;

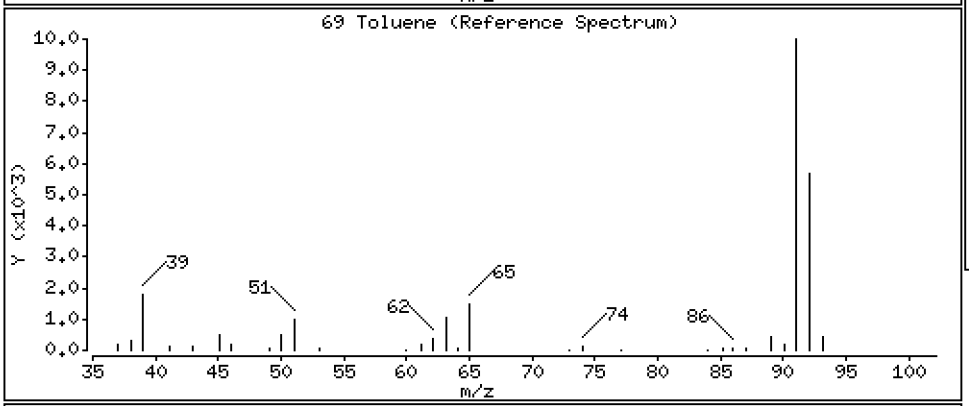
Purge Volume: 5.0 Operator: CJG

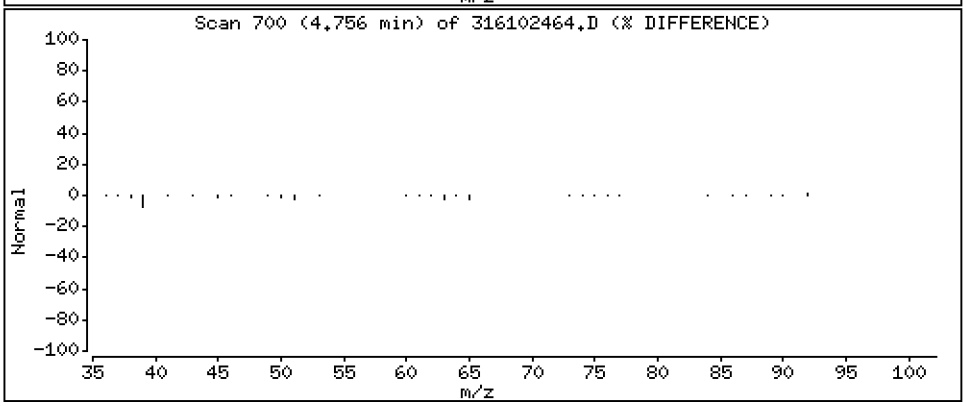
Column phase: DB-VRX Column diameter: 0.25

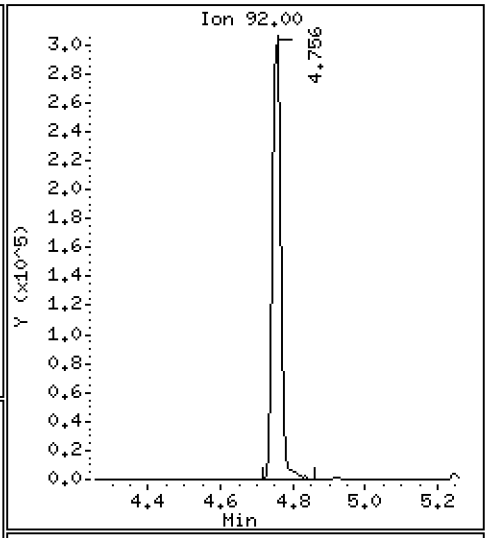
69 Toluene Concentration: 19.2033 ug/L

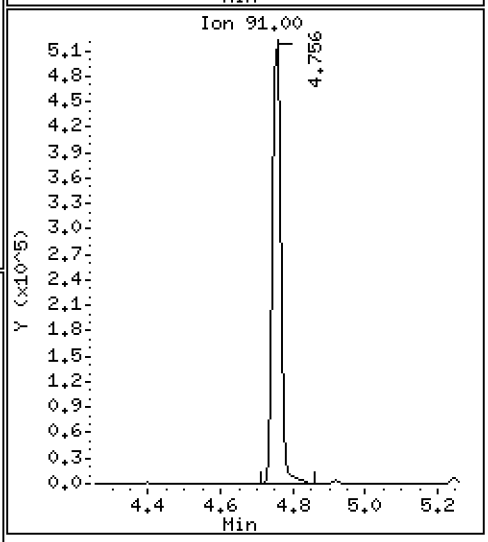












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 78

Date : 25-OCT-2016 03:26

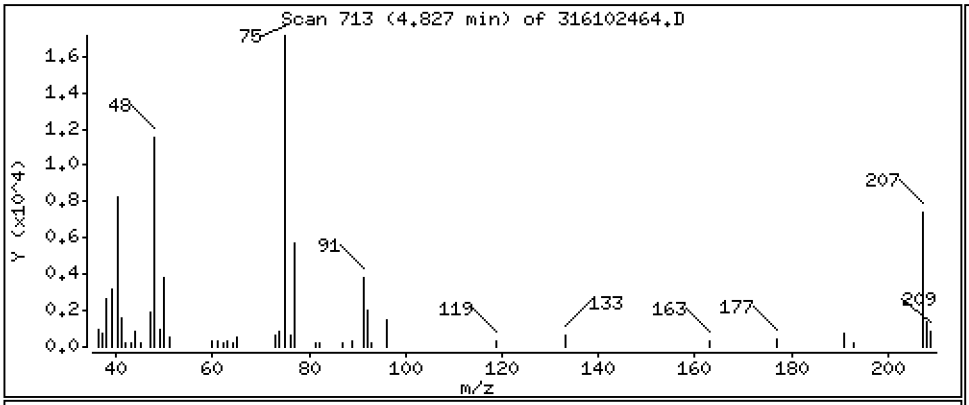
Client ID: LCS for HBN 174041 Instrument: ms03.i

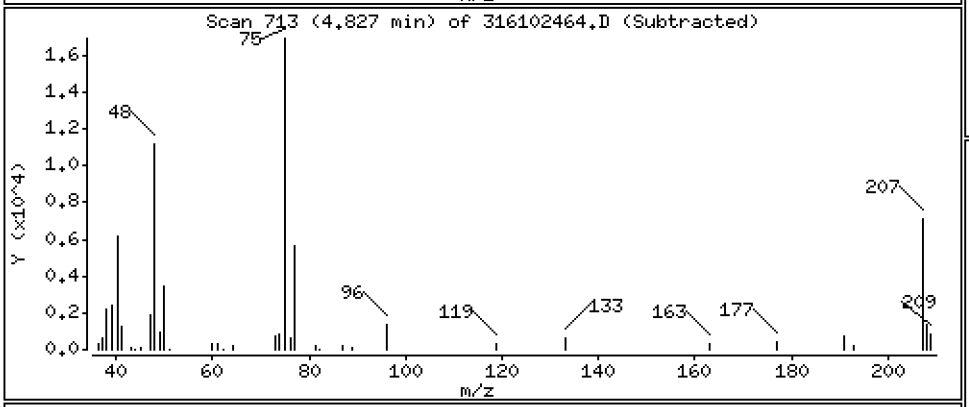
Sample Info: 2428716;;1;3;;LCS;1;

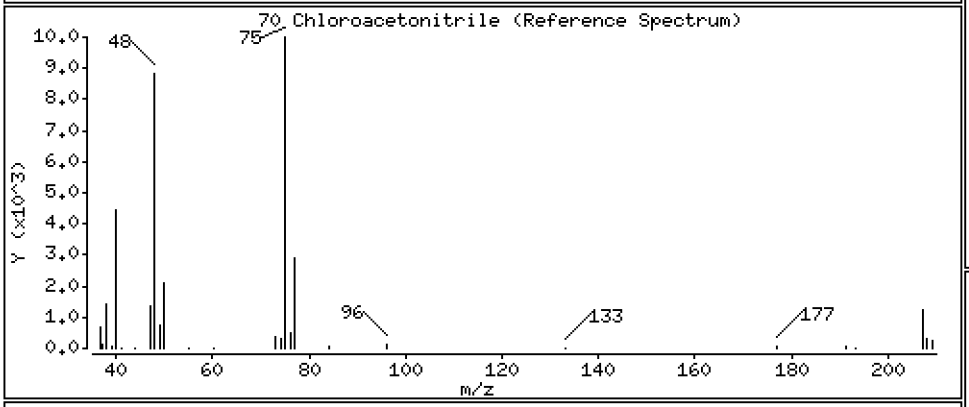
Purge Volume: 5.0 Operator: CJG

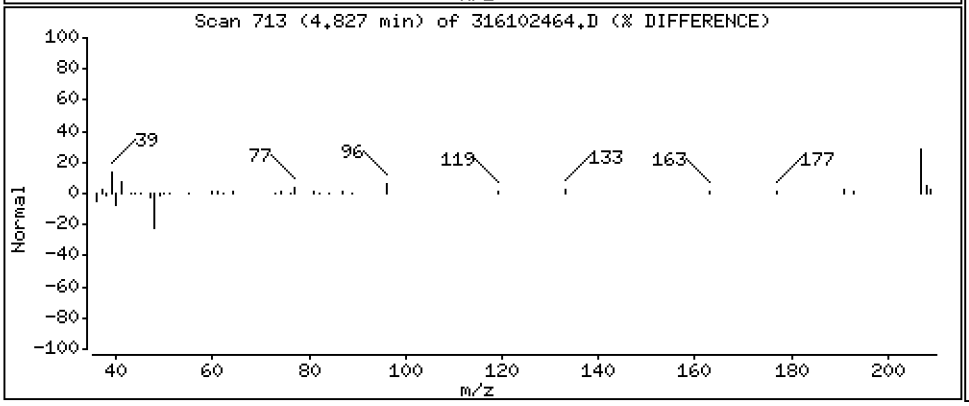
Column phase: DB-VRX Column diameter: 0.25

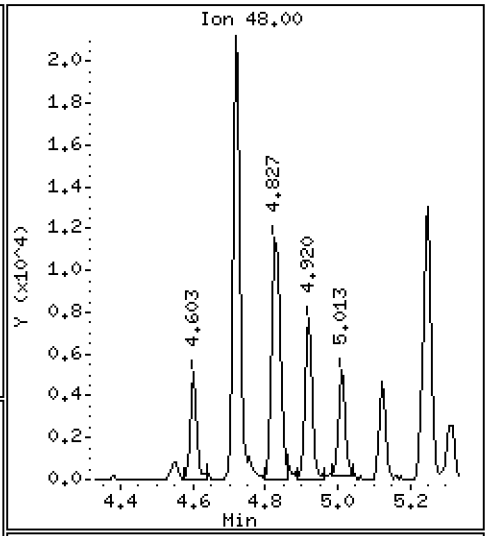
70 Chloroacetonitrile Concentration: 85.3655 ug/L

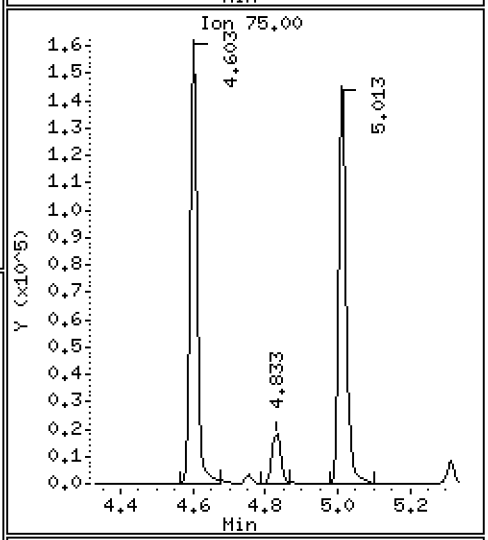


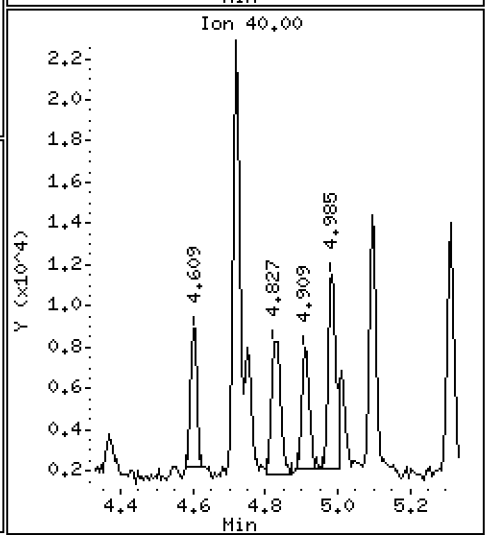












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 79

Date : 25-OCT-2016 03:26

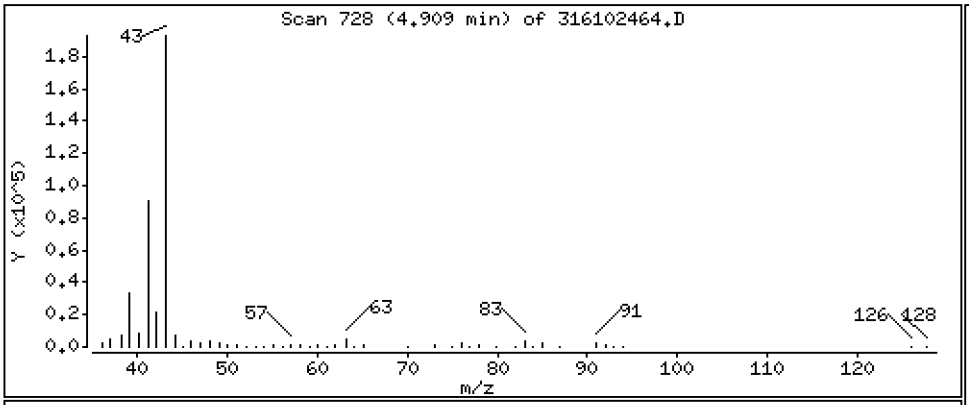
Client ID: LCS for HBN 174041 Instrument: ms03.i

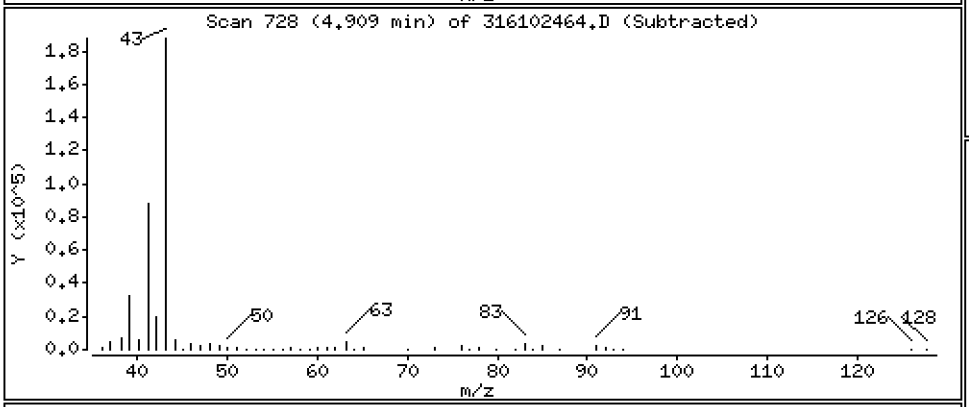
Sample Info: 2428716;;1;3;;LCS;1;

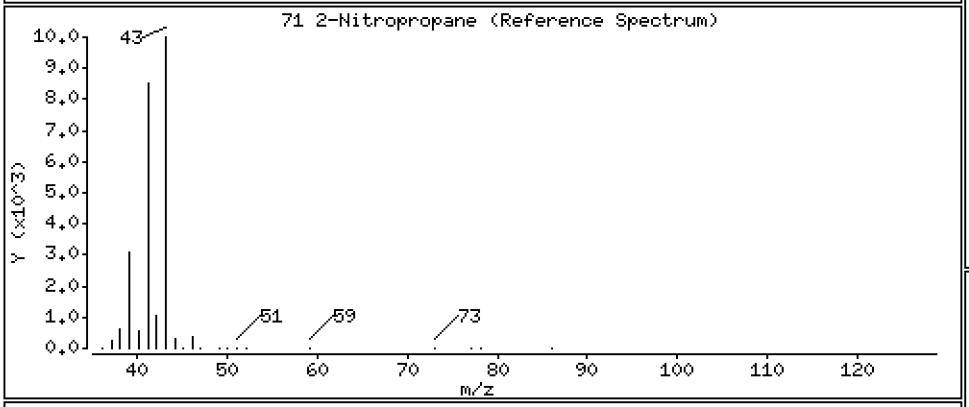
Purge Volume: 5.0 Operator: CJG

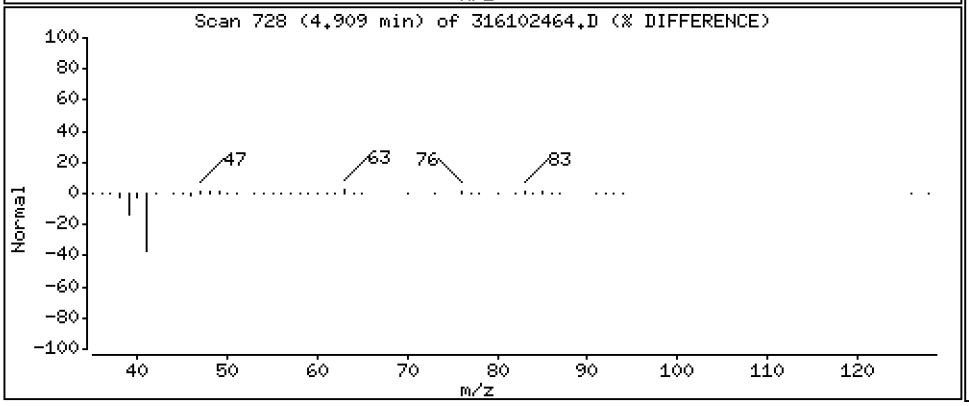
Column phase: DB-VRX Column diameter: 0.25

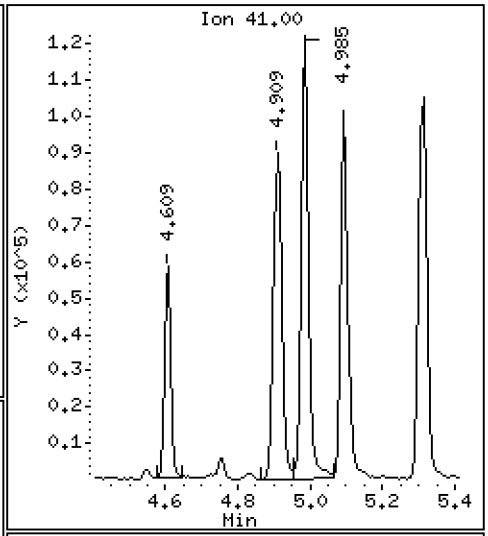
71 2-Nitropropane Concentration: 84.3970 ug/L

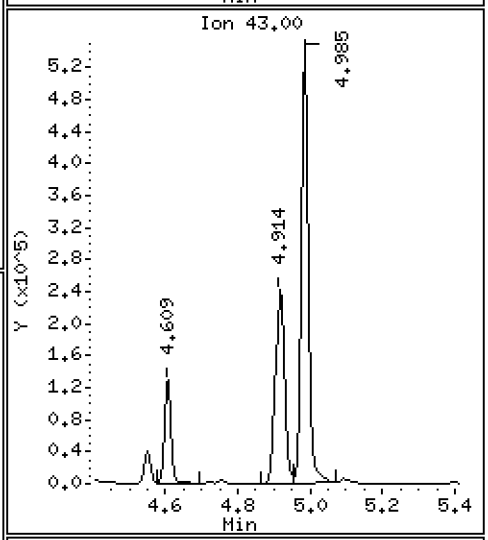


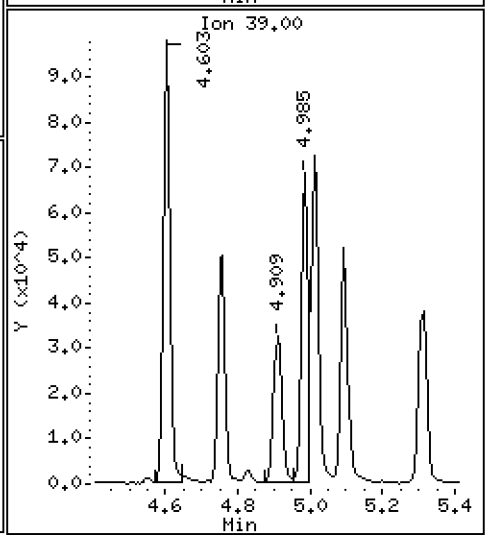












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 80

Date : 25-OCT-2016 03:26

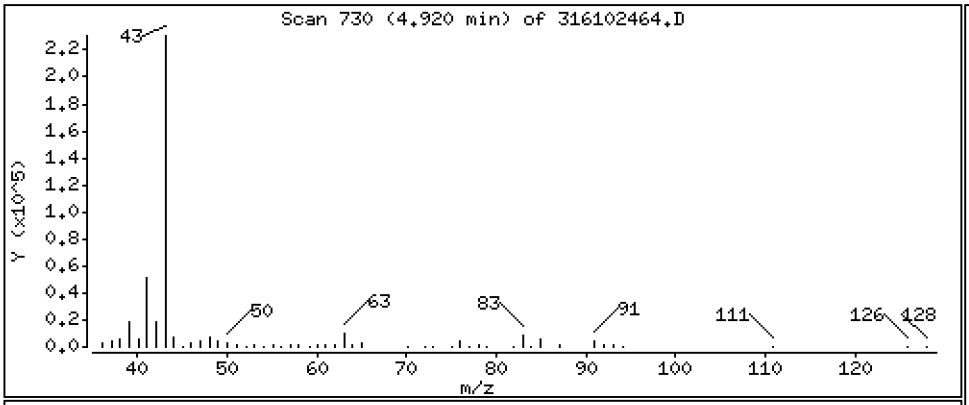
Client ID: LCS for HBN 174041 Instrument: ms03.i

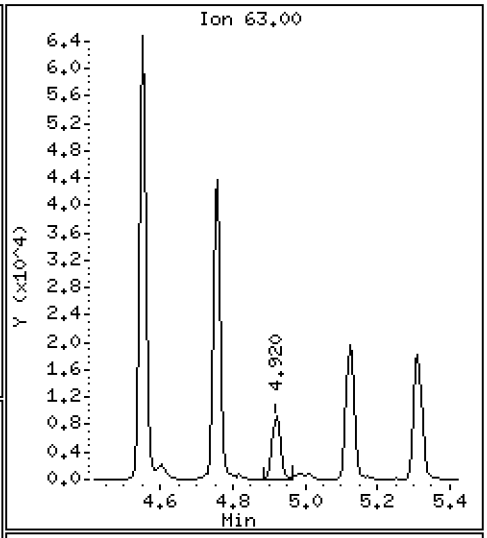
Sample Info: 2428716;;1;3;;LCS;1;

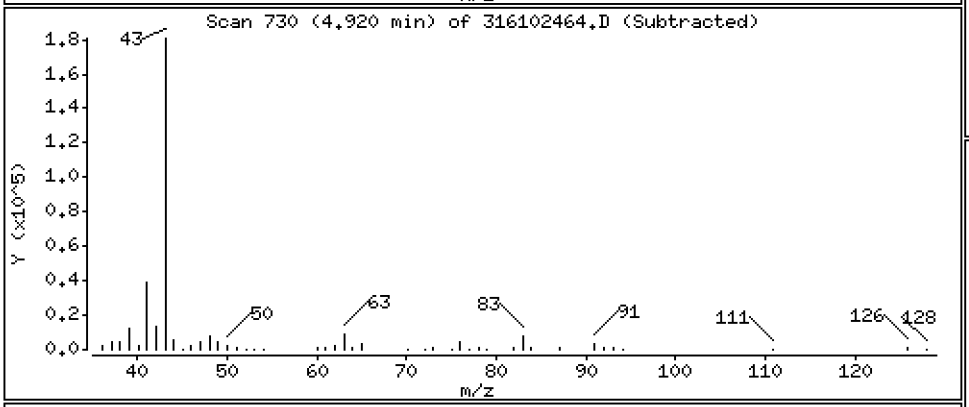
Purge Volume: 5.0 Operator: CJG

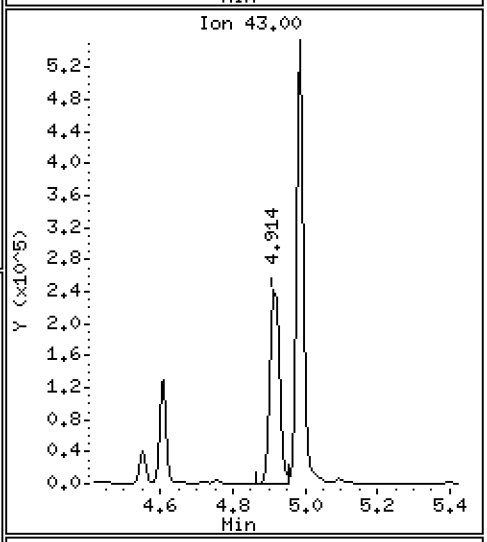
Column phase: DB-VRX Column diameter: 0.25

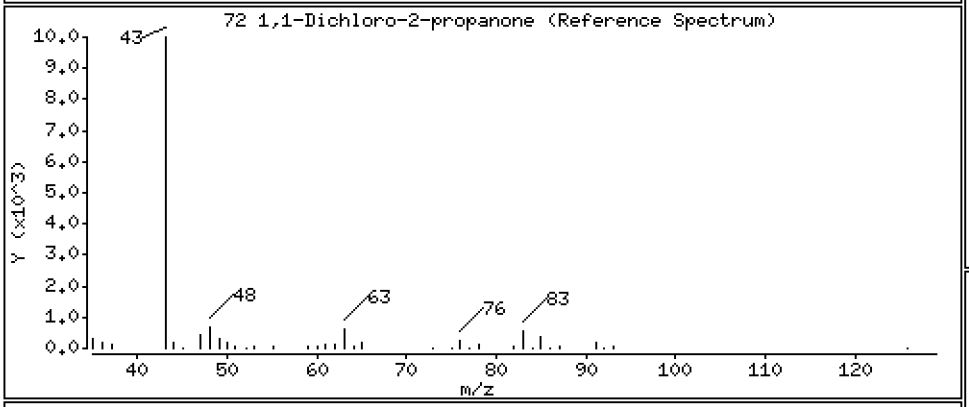
72 1,1-Dichloro-2-propanone Concentration: 91.8616 ug/L

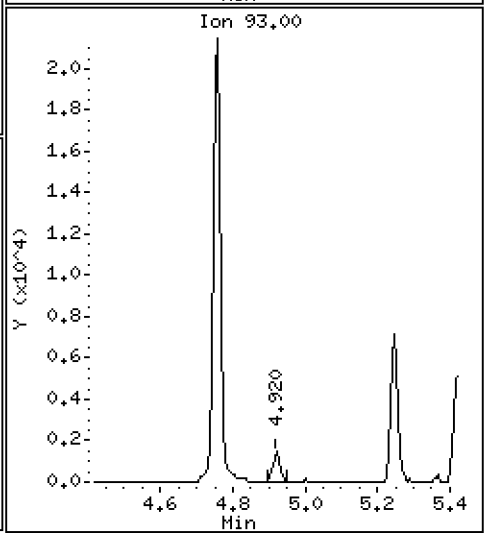


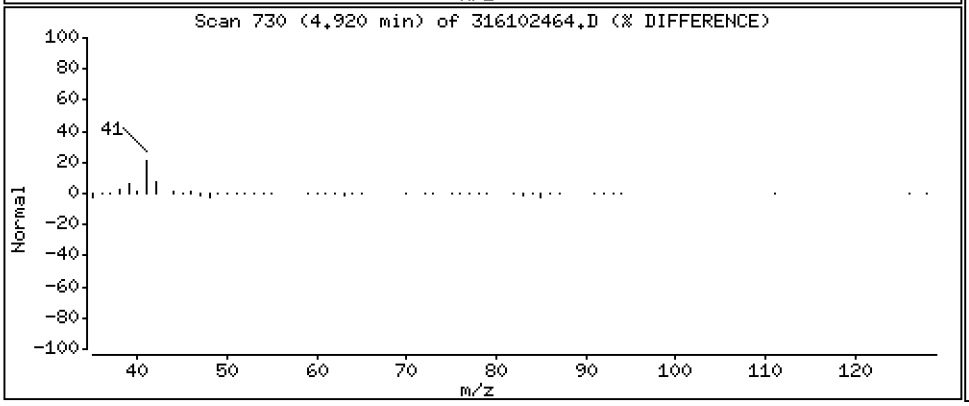












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 81

Date : 25-OCT-2016 03:26

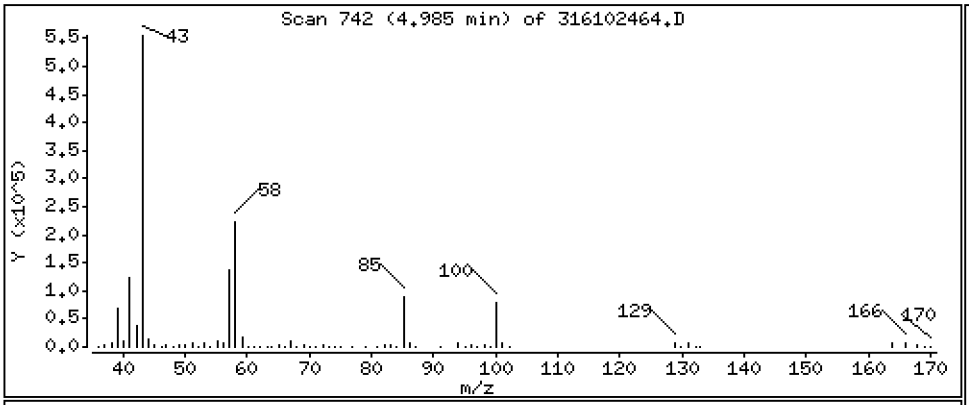
Client ID: LCS for HBN 174041 Instrument: ms03.i

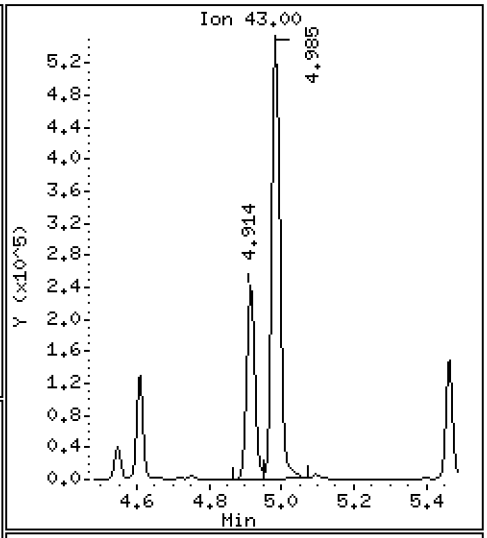
Sample Info: 2428716;;1;3;;LCS;1;

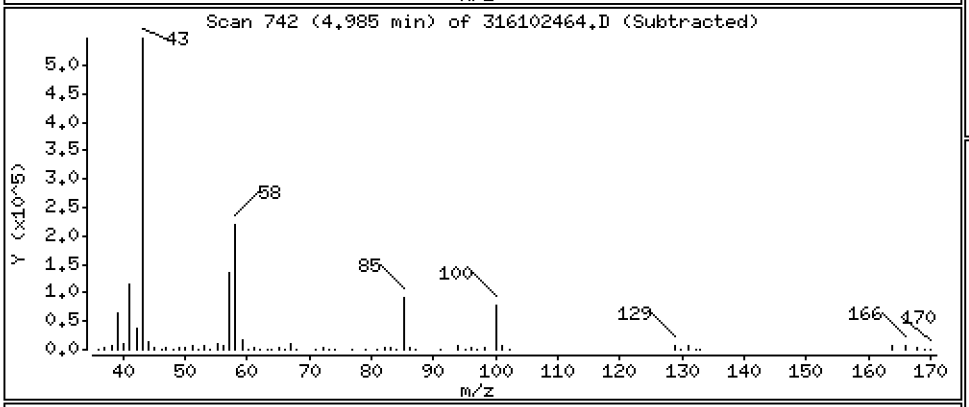
Purge Volume: 5.0 Operator: CJG

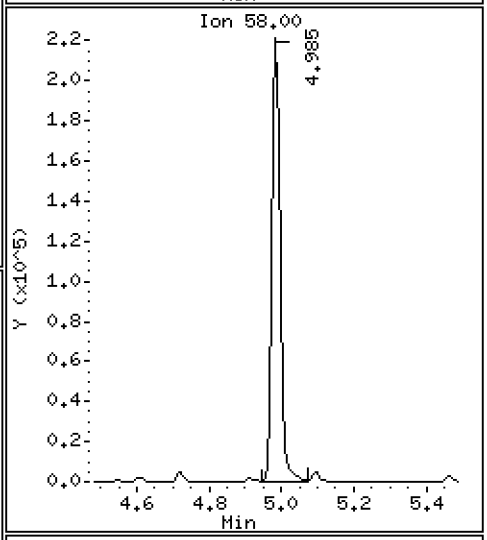
Column phase: DB-VRX Column diameter: 0.25

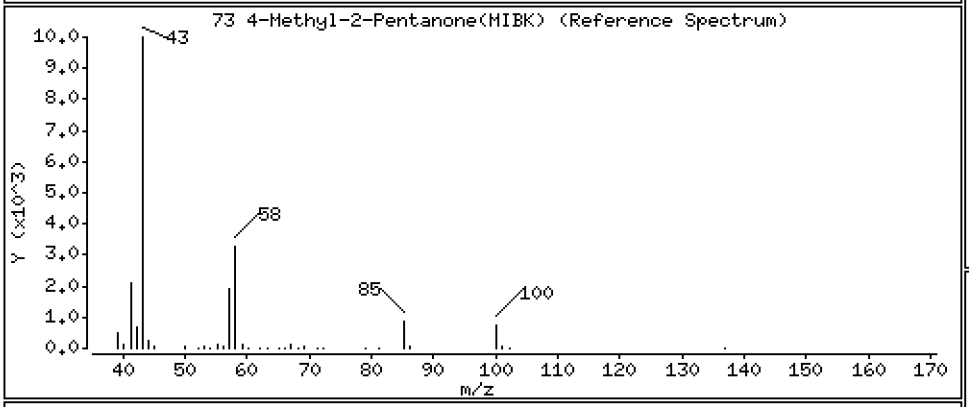
73 4-Methyl-2-Pentanone(MIBK) Concentration: 100.790 ug/L

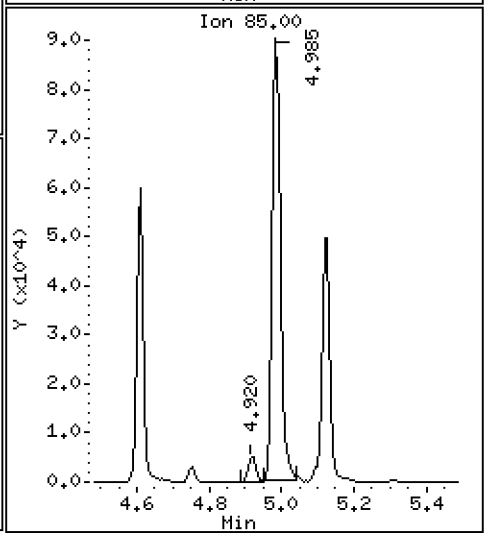


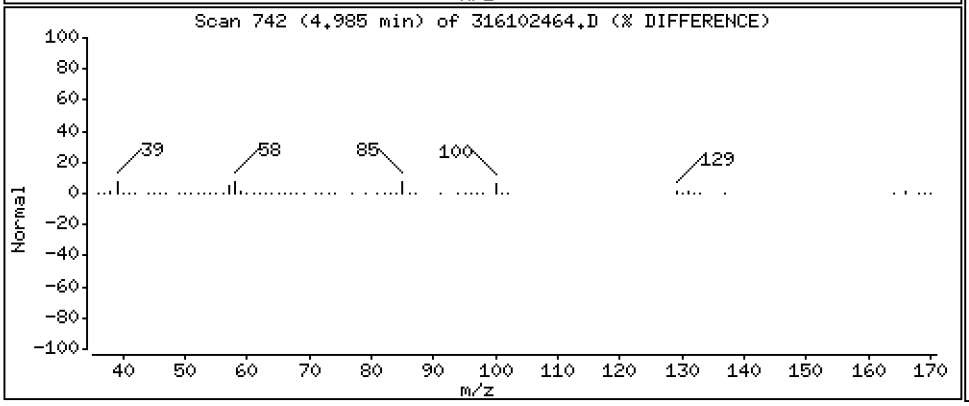












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 82

Date : 25-OCT-2016 03:26

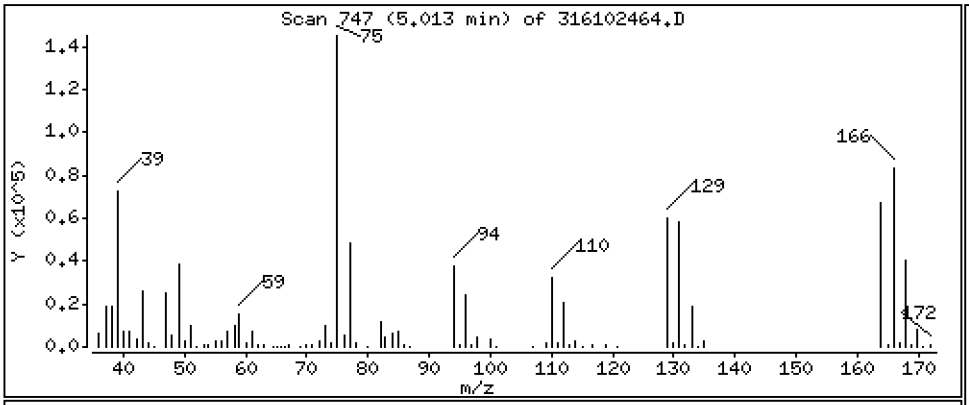
Client ID: LCS for HBN 174041 Instrument: ms03.i

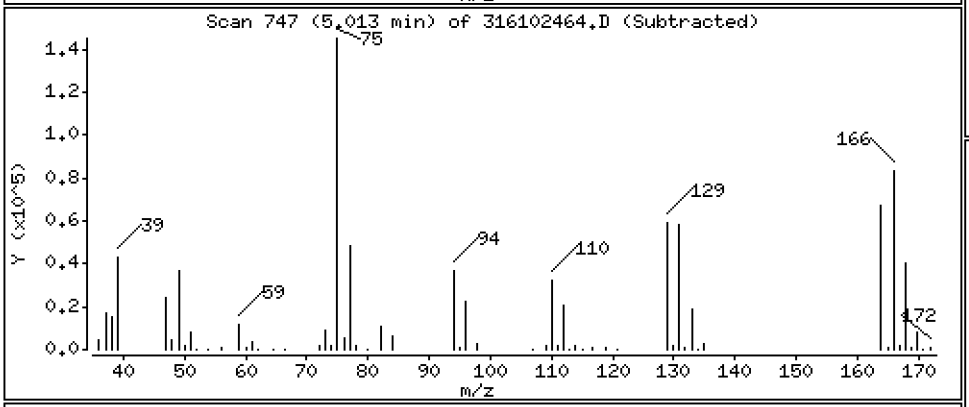
Sample Info: 2428716;;1;3;;LCS;1;

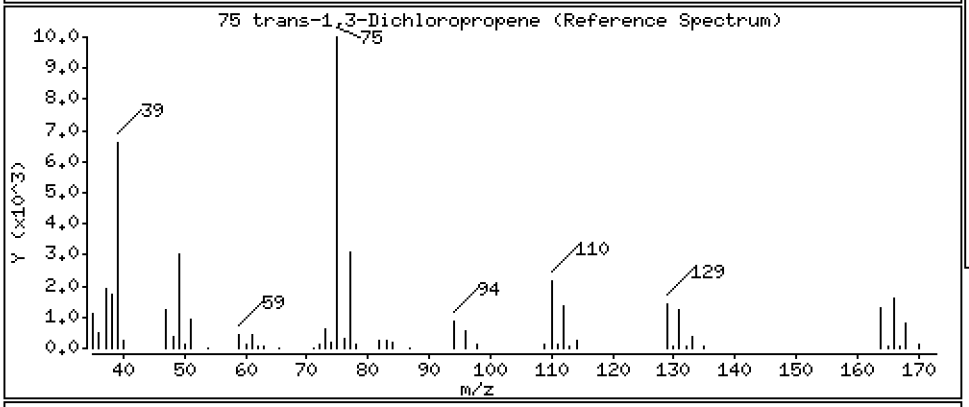
Purge Volume: 5.0 Operator: CJG

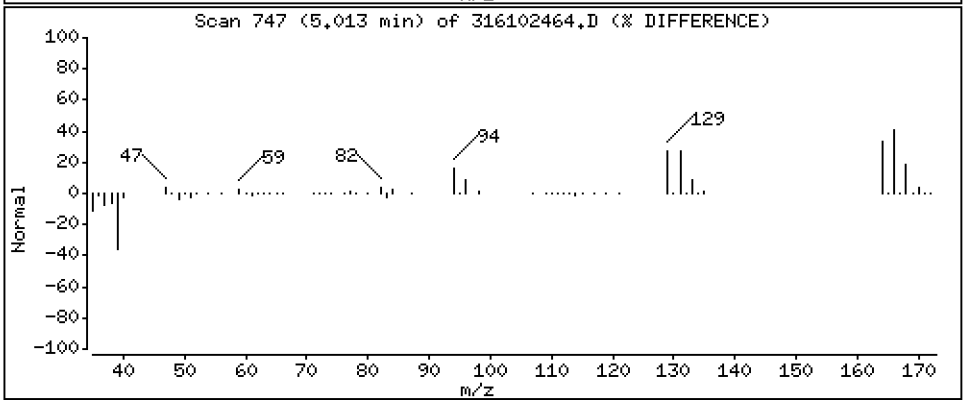
Column phase: DB-VRX Column diameter: 0.25

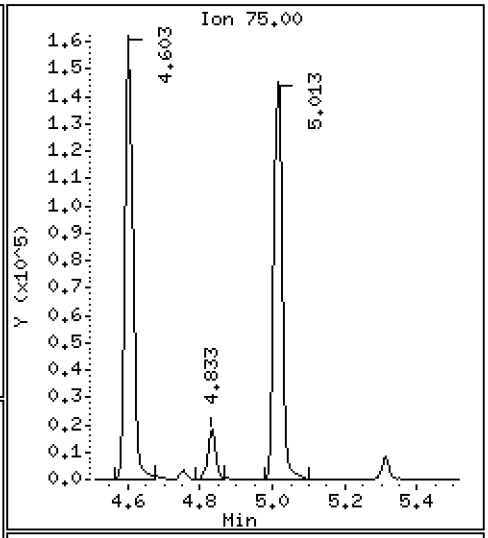
75 trans-1,3-Dichloropropene Concentration: 19.2560 ug/L

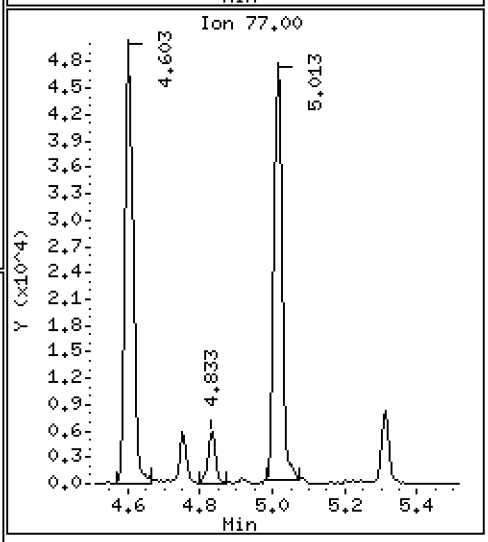












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 83

Date : 25-OCT-2016 03:26

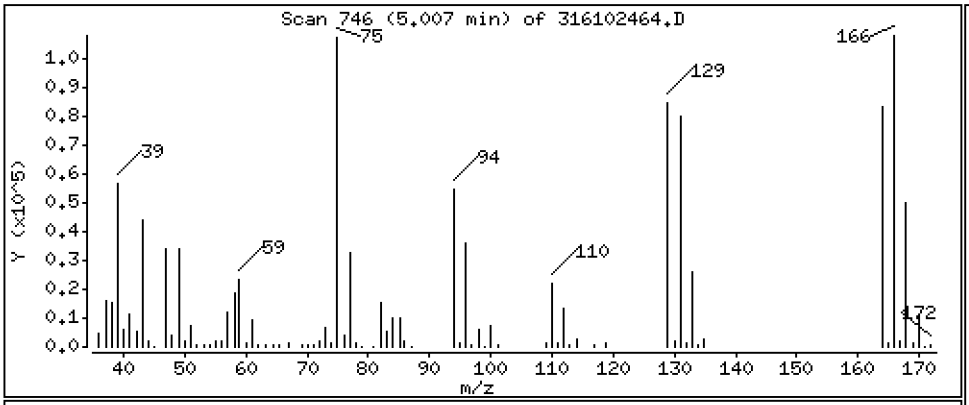
Client ID: LCS for HBN 174041 Instrument: ms03.i

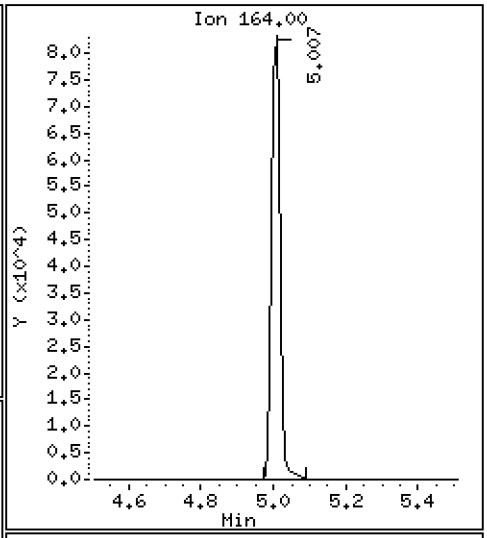
Sample Info: 2428716;;1;3;;LCS;1;

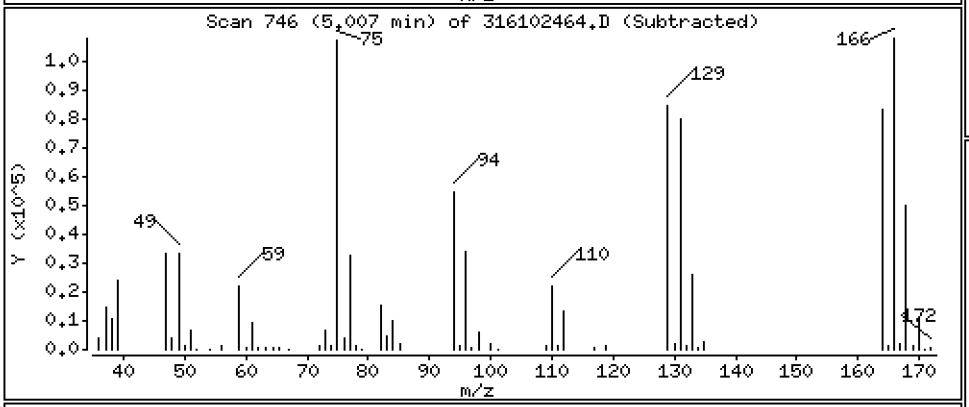
Purge Volume: 5.0 Operator: CJG

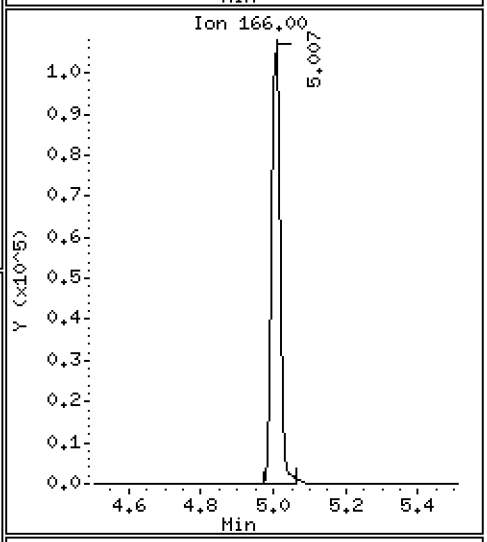
Column phase: DB-VRX Column diameter: 0.25

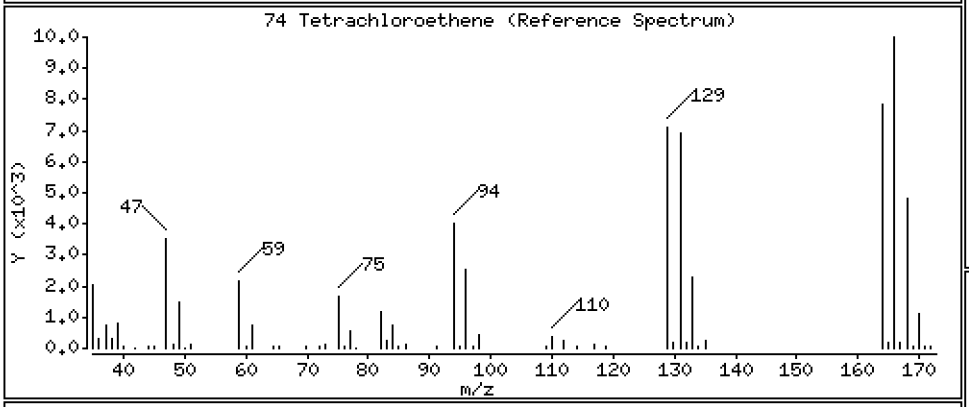
74 Tetrachloroethene Concentration: 22.5487 ug/L

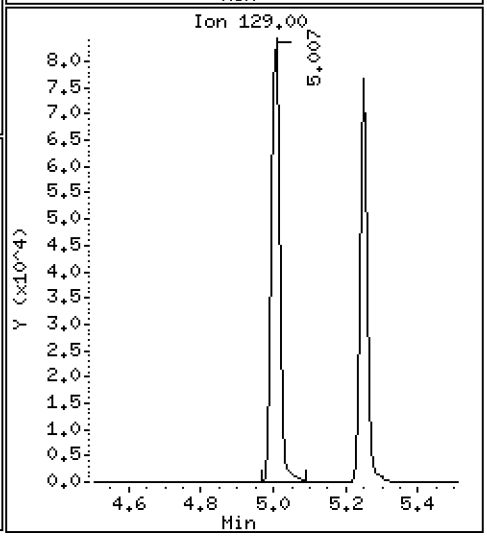


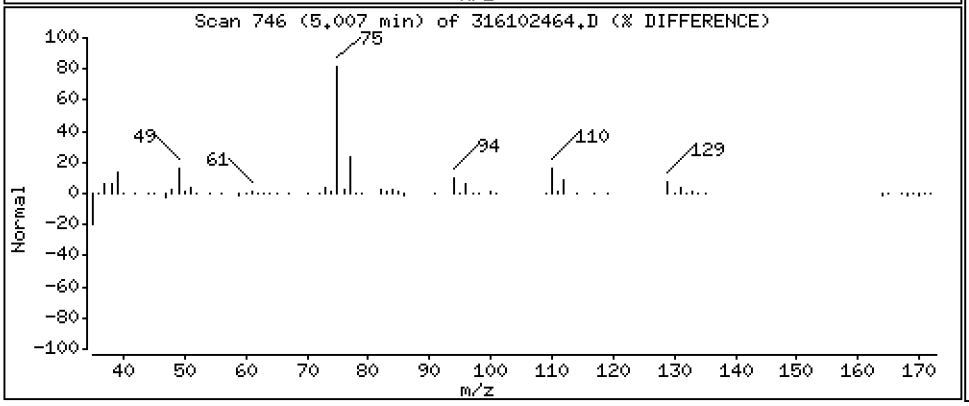












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 84

Date : 25-OCT-2016 03:26

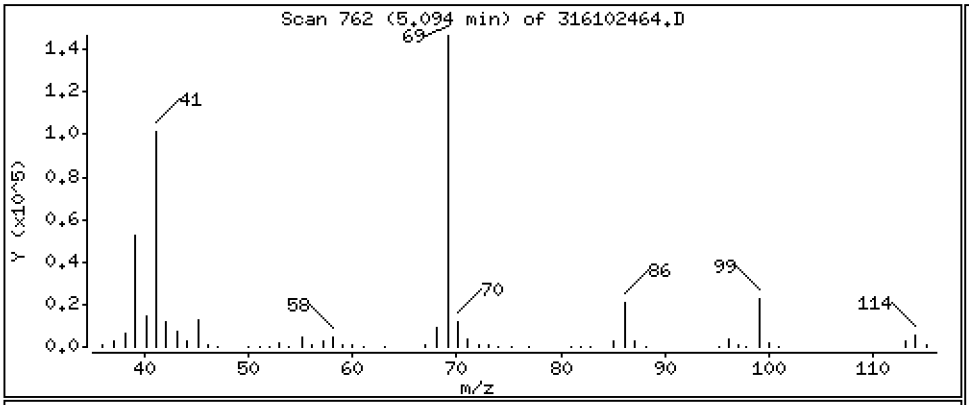
Client ID: LCS for HBN 174041 Instrument: ms03.i

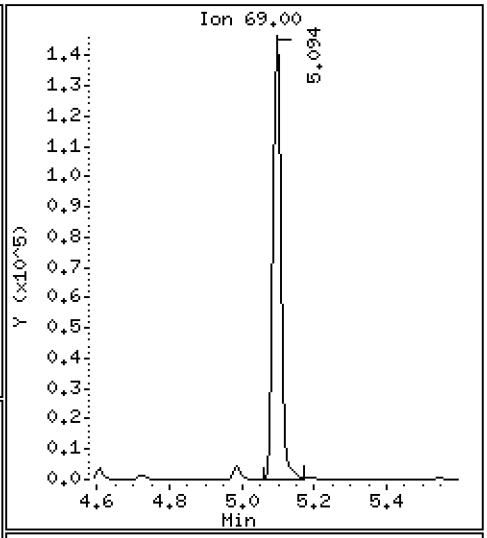
Sample Info: 2428716;;1;3;;LCS;1;

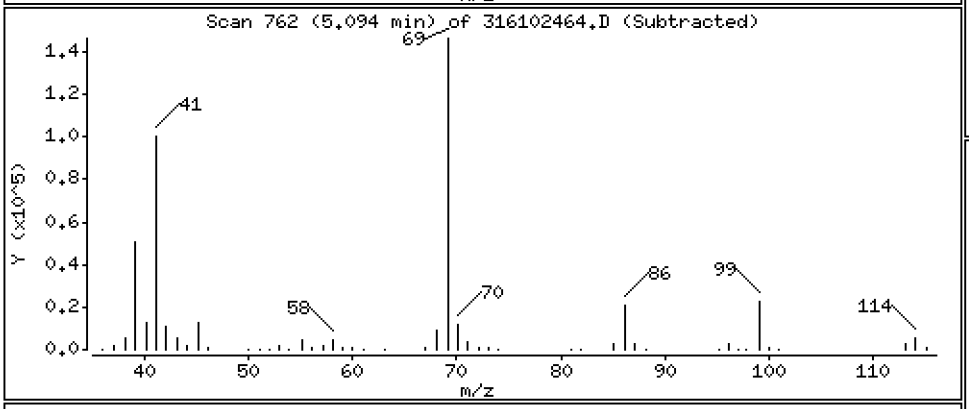
Purge Volume: 5.0 Operator: CJG

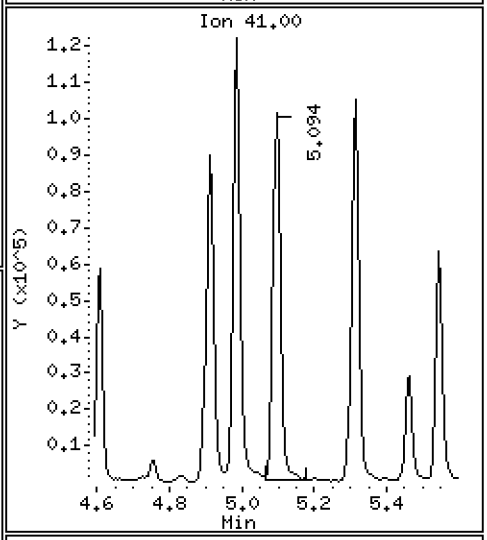
Column phase: DB-VRX Column diameter: 0.25

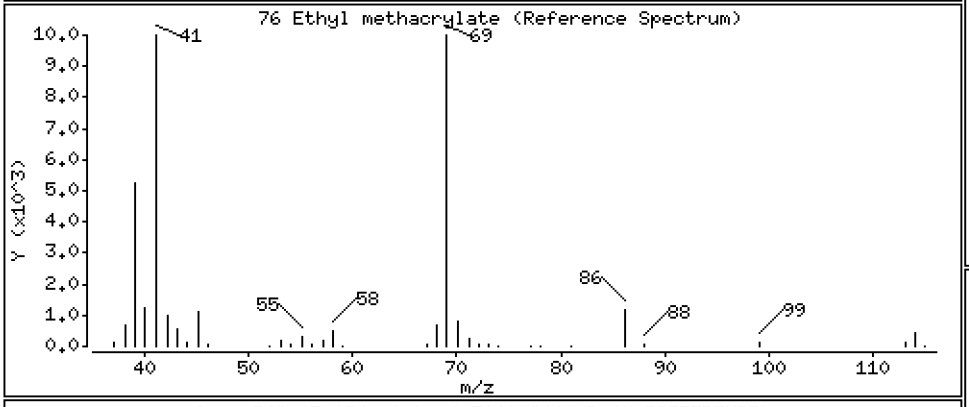
76 Ethyl methacrylate Concentration: 19.8433 ug/L

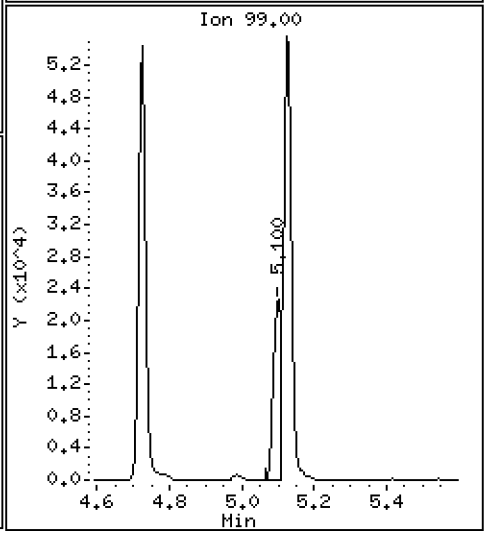


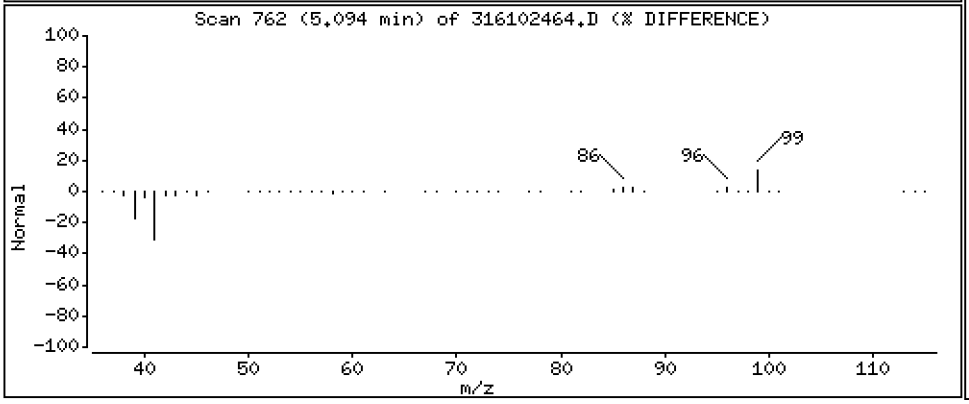












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 85

Date : 25-OCT-2016 03:26

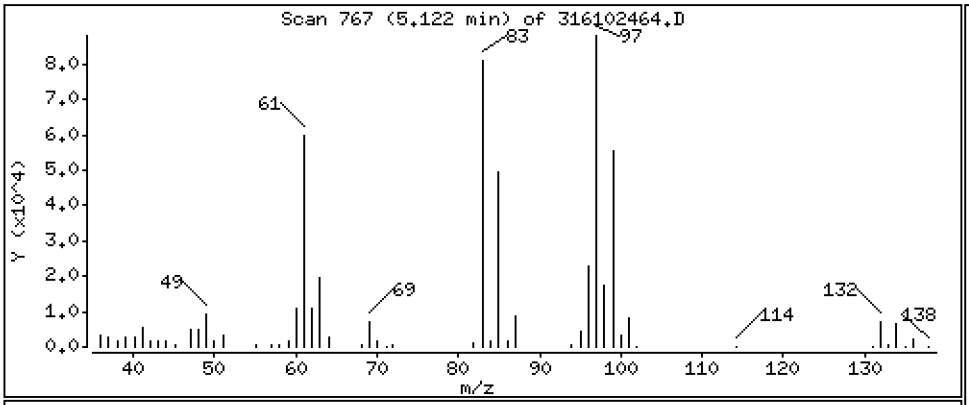
Client ID: LCS for HBN 174041 Instrument: ms03.i

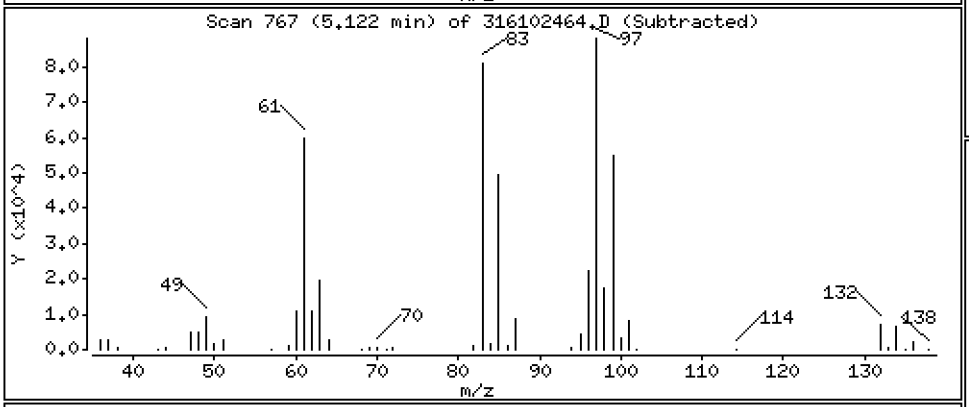
Sample Info: 2428716;;1;3;;LCS;1;

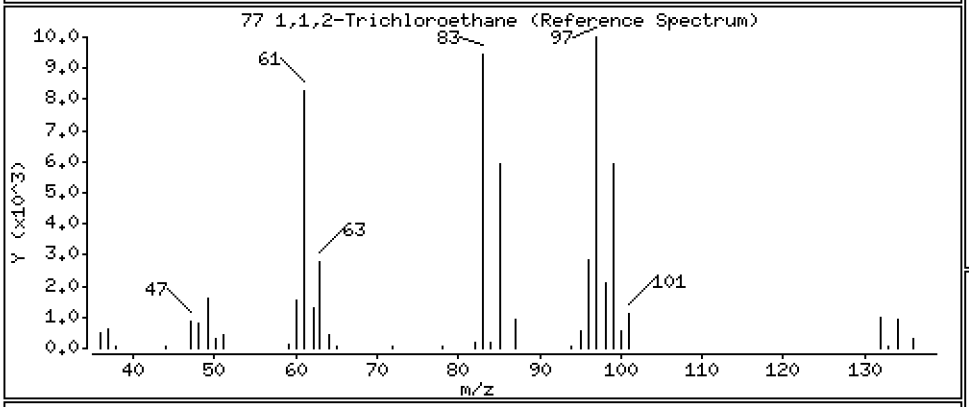
Purge Volume: 5.0 Operator: CJG

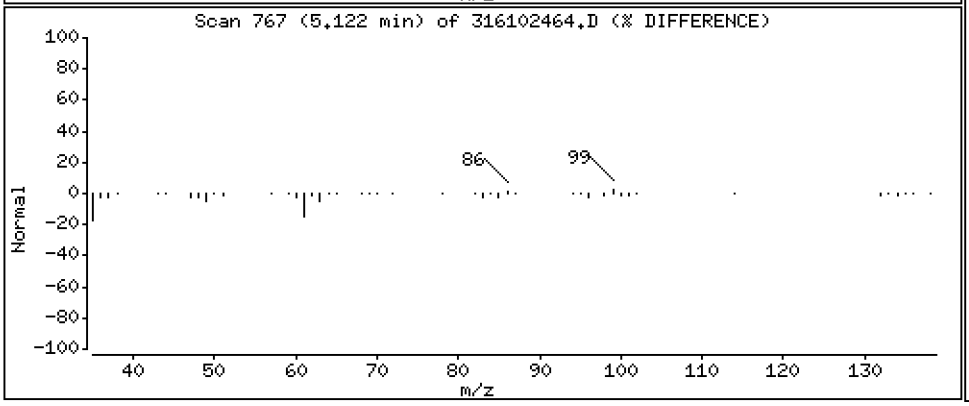
Column phase: DB-VRX Column diameter: 0.25

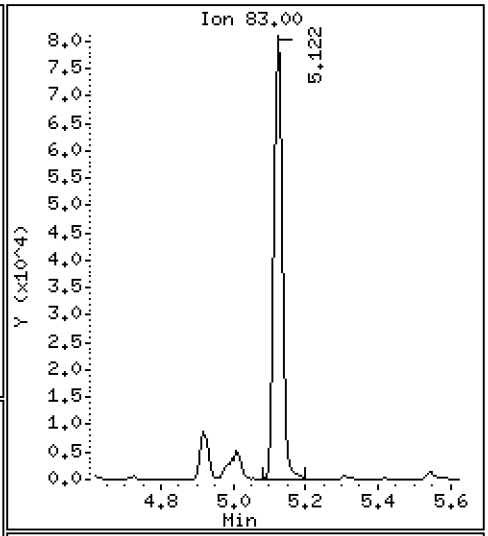
77 1,1,2-Trichloroethane Concentration: 18.0028 ug/L

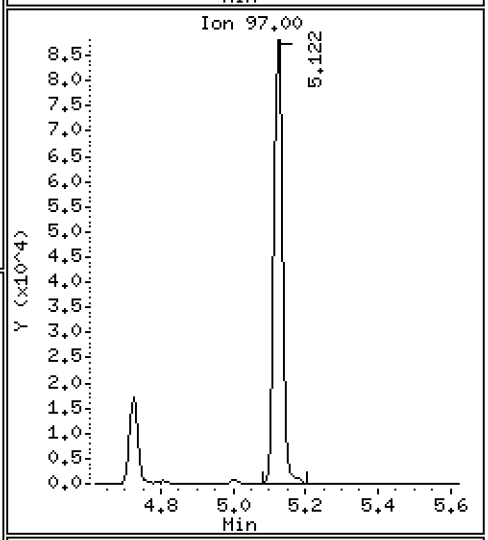


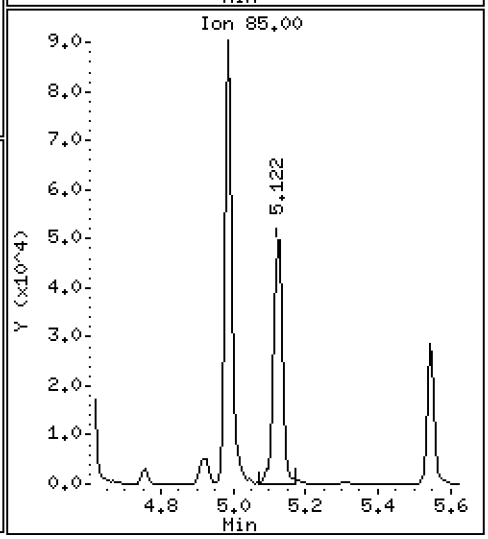












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 86

Date : 25-OCT-2016 03:26

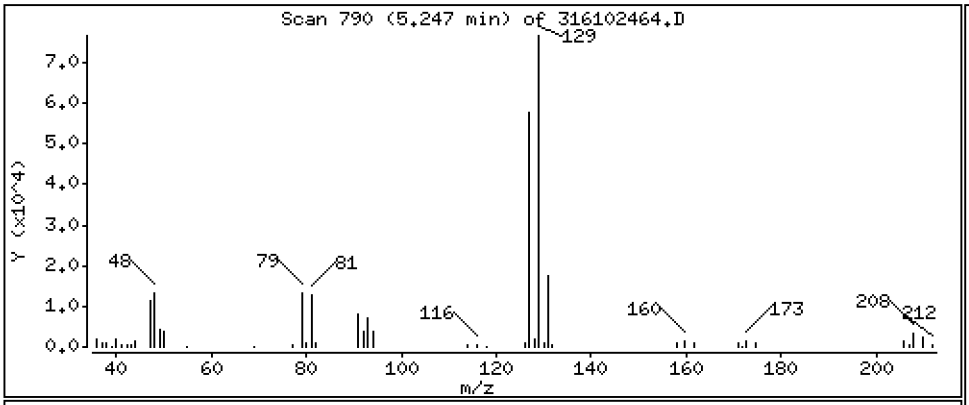
Client ID: LCS for HBN 174041 Instrument: ms03.i

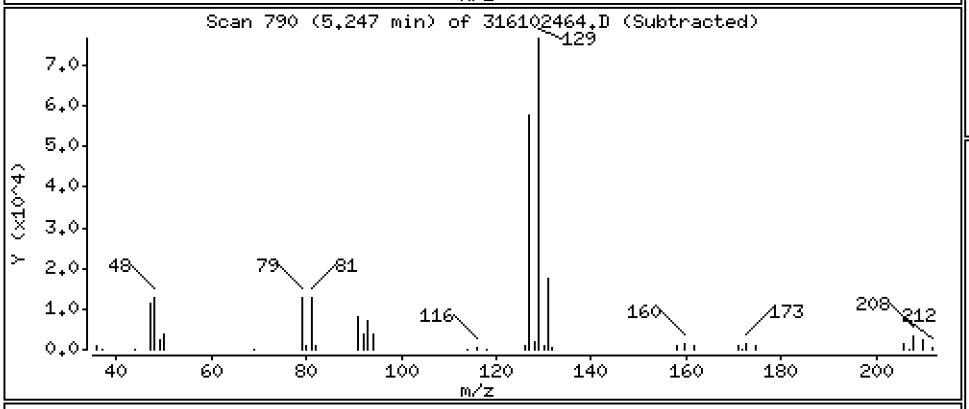
Sample Info: 2428716;;1;3;;LCS;1;

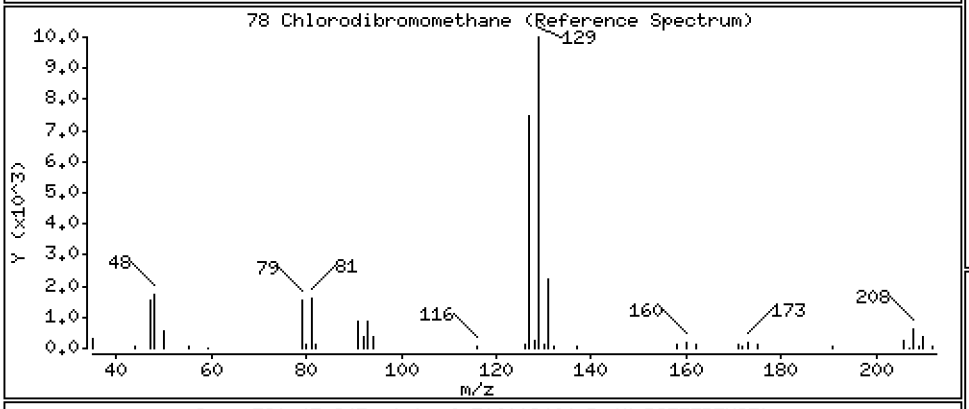
Purge Volume: 5.0 Operator: CJG

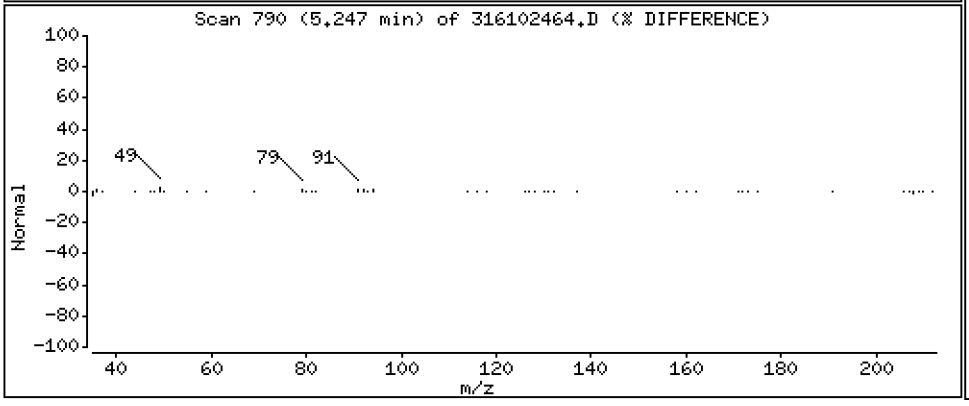
Column phase: DB-VRX Column diameter: 0.25

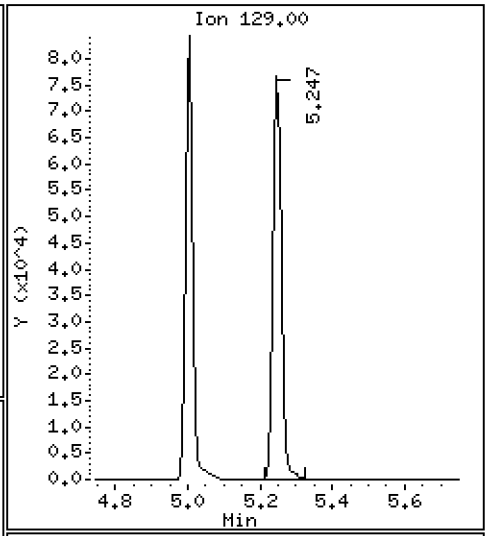
78 Chlorodibromomethane Concentration: 18.7188 ug/L

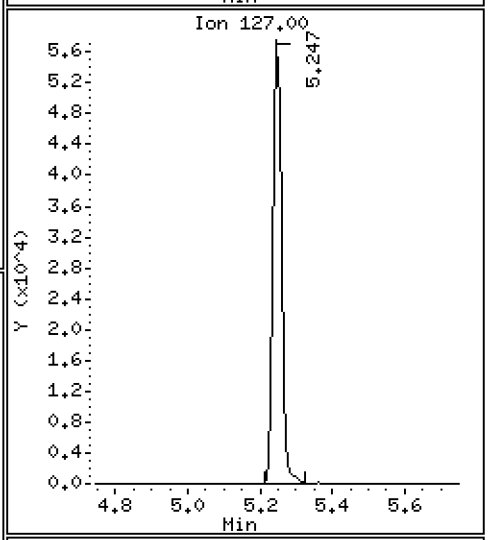


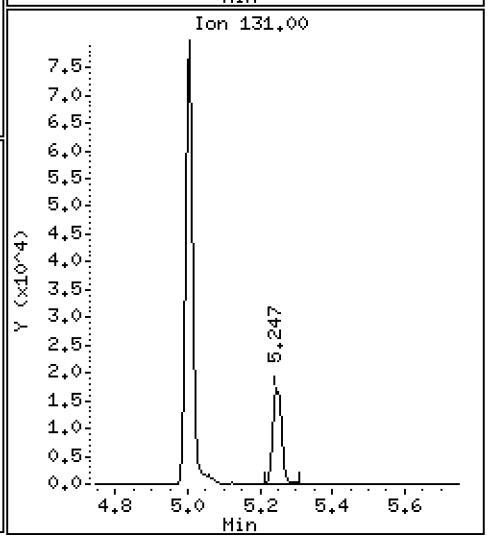












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 87

Date : 25-OCT-2016 03:26

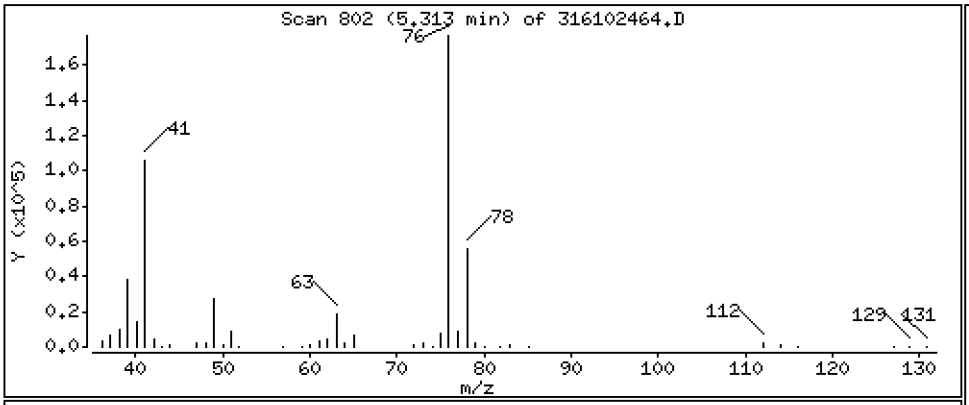
Client ID: LCS for HBN 174041 Instrument: ms03.i

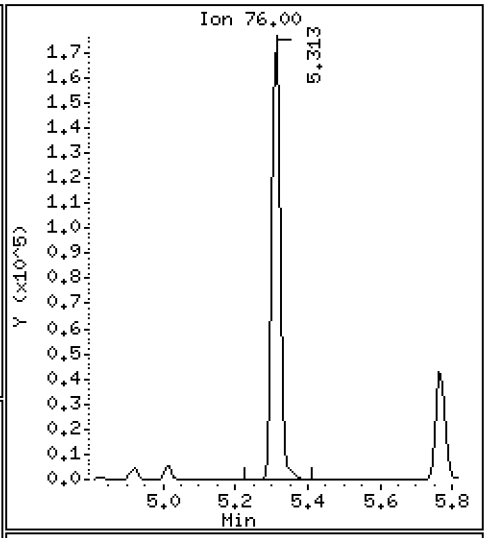
Sample Info: 2428716;;1;3;;LCS;1;

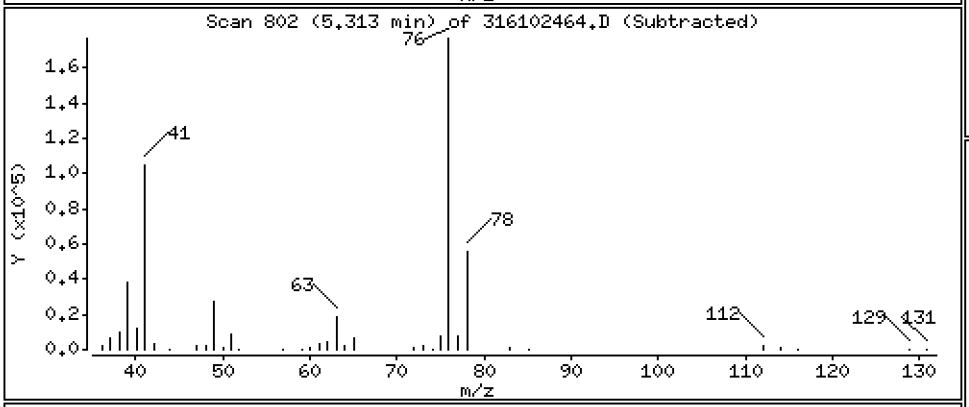
Purge Volume: 5.0 Operator: CJG

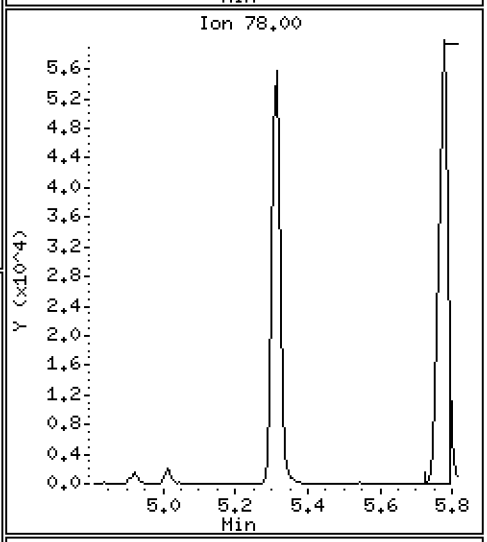
Column phase: DB-VRX Column diameter: 0.25

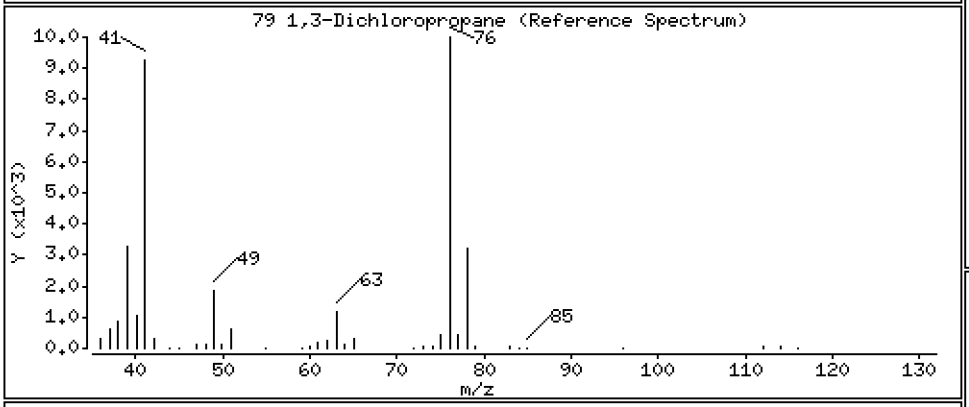
79 1,3-Dichloropropane Concentration: 17.9384 ug/L

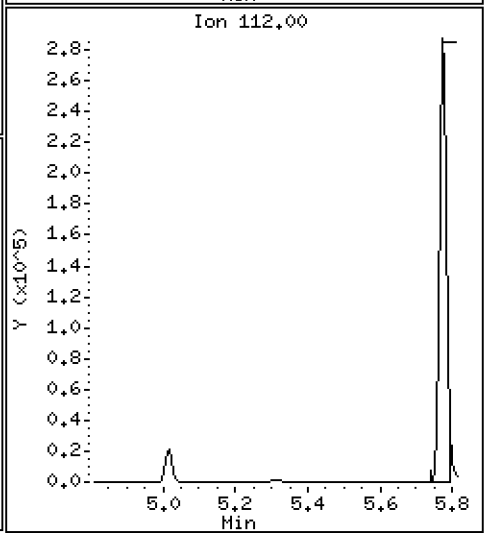


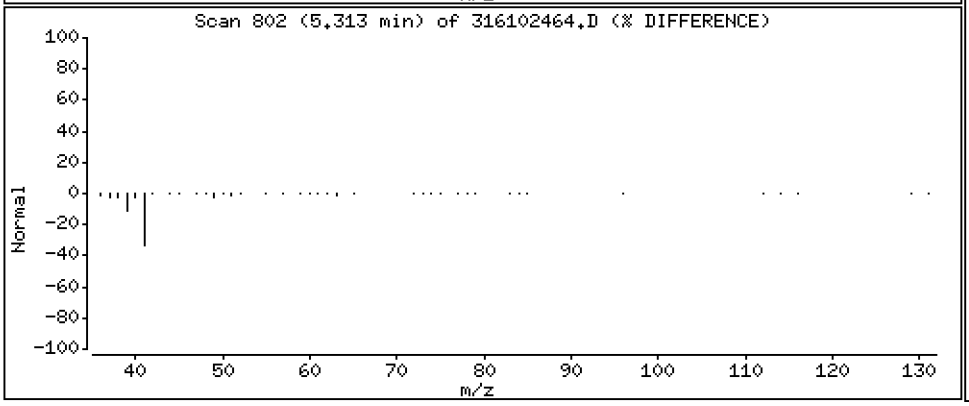












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 88

Date : 25-OCT-2016 03:26

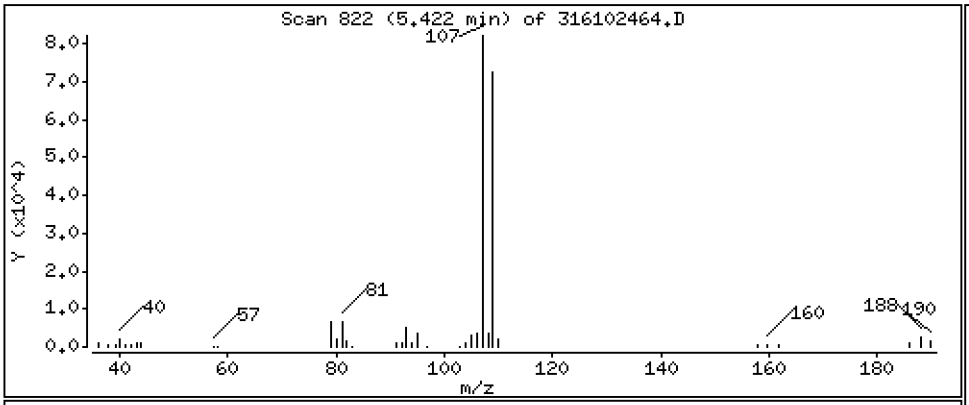
Client ID: LCS for HBN 174041 Instrument: ms03.i

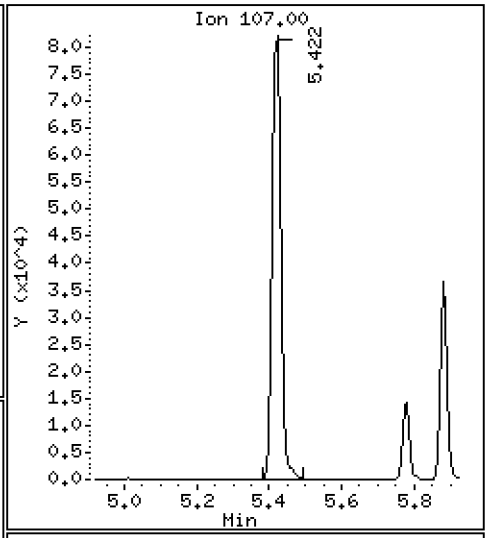
Sample Info: 2428716;;1;3;;LCS;1;

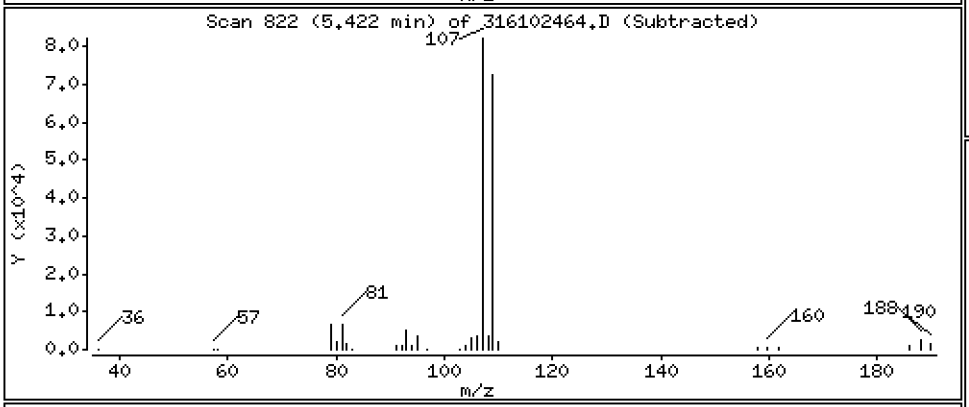
Purge Volume: 5.0 Operator: CJG

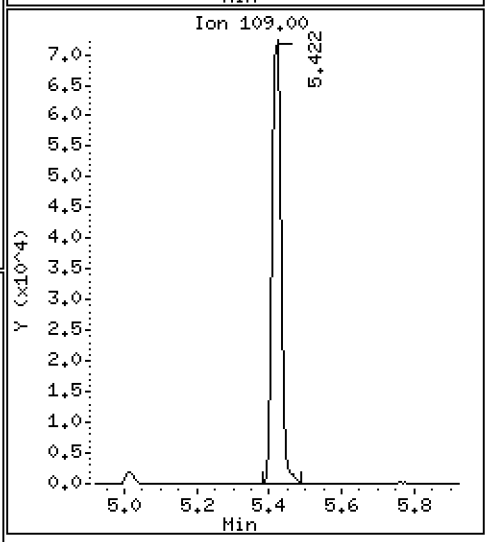
Column phase: DB-VRX Column diameter: 0.25

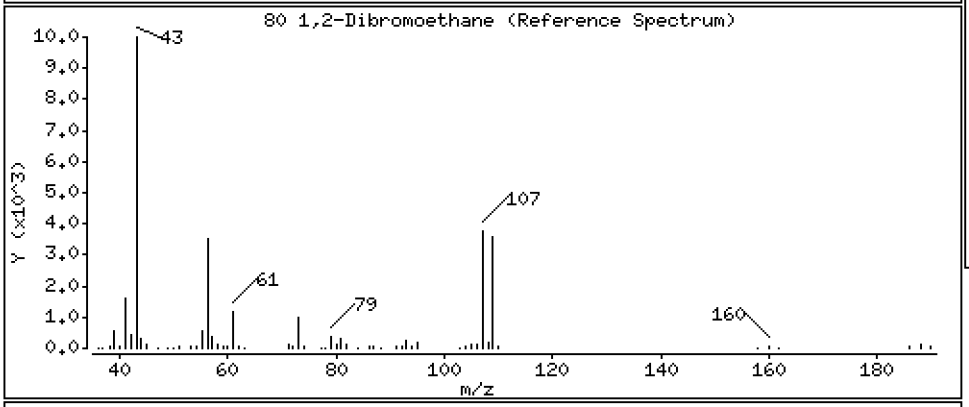
80 1,2-Dibromoethane Concentration: 18.9954 ug/L

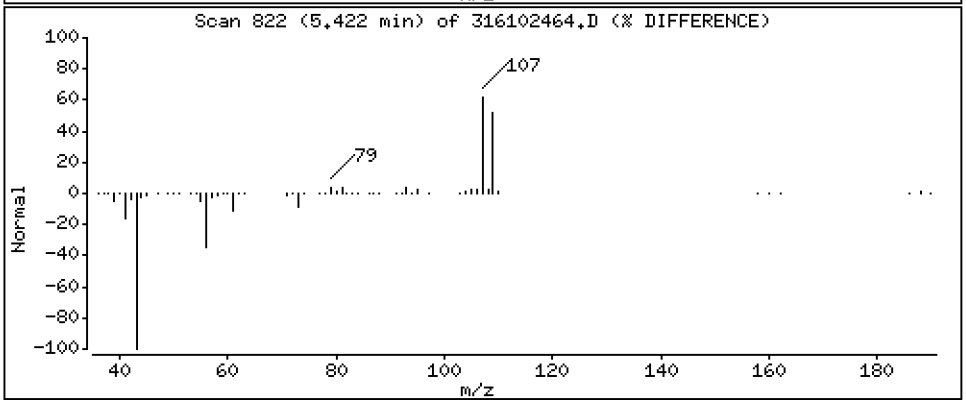












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 89

Date : 25-OCT-2016 03:26

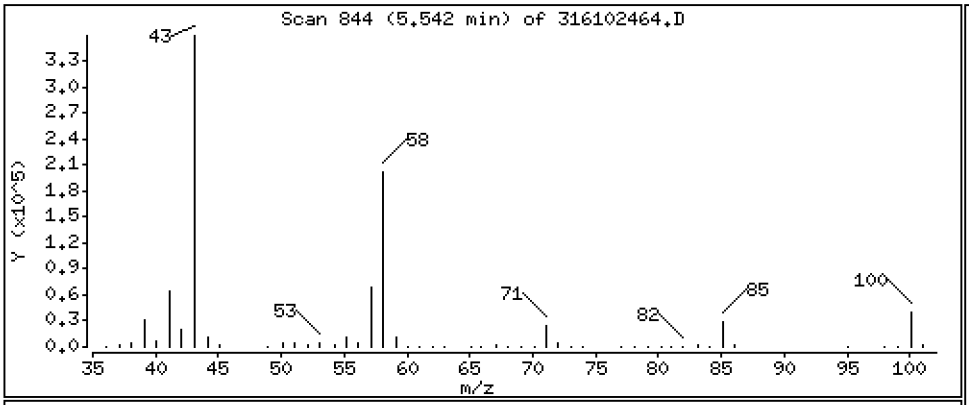
Client ID: LCS for HBN 174041 Instrument: ms03.i

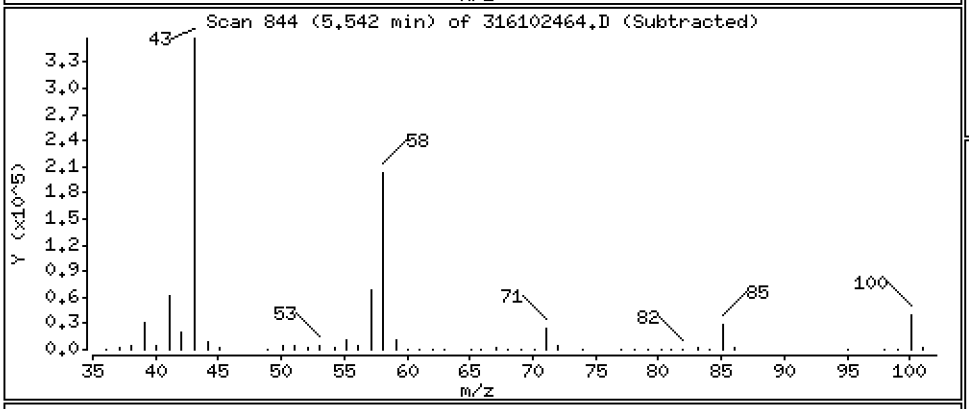
Sample Info: 2428716;;1;3;;LCS;1;

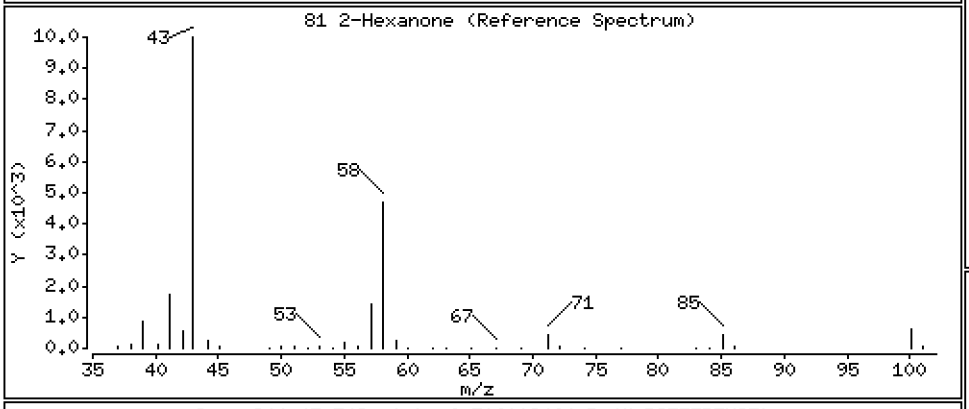
Purge Volume: 5.0 Operator: CJG

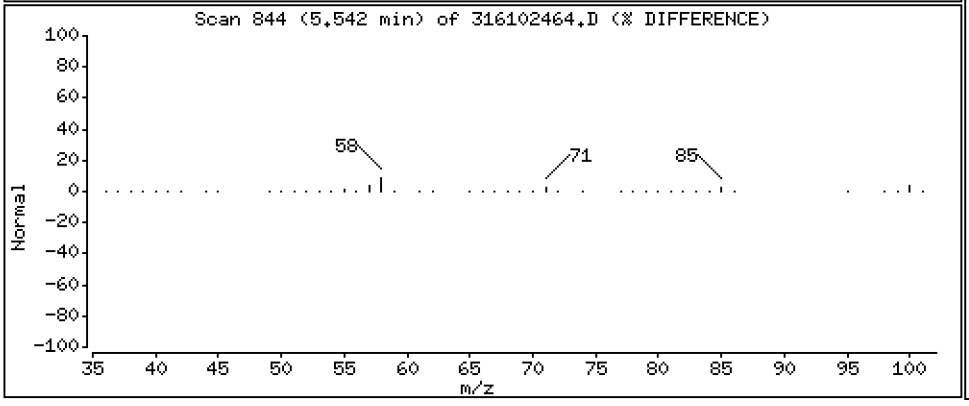
Column phase: DB-VRX Column diameter: 0.25

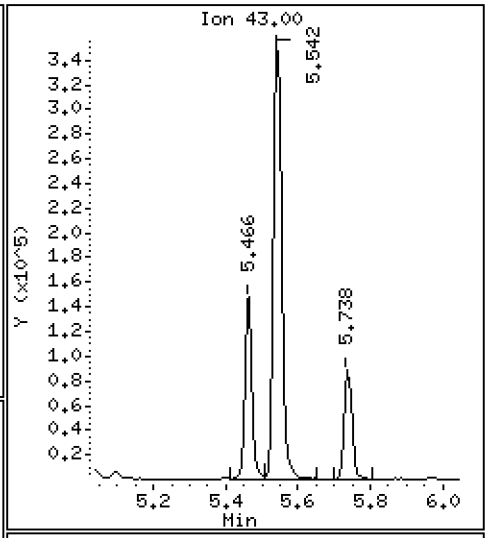
81 2-Hexanone Concentration: 101.710 ug/L

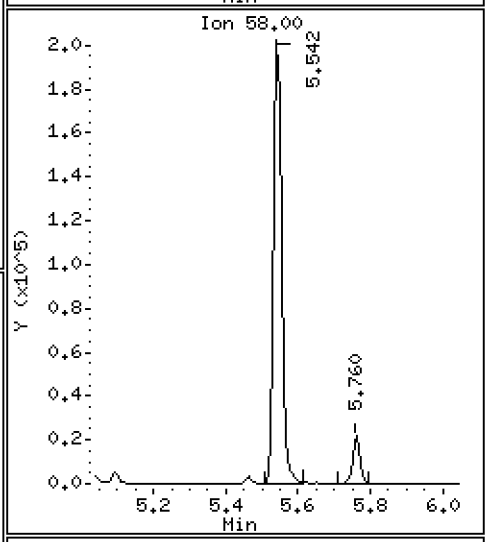


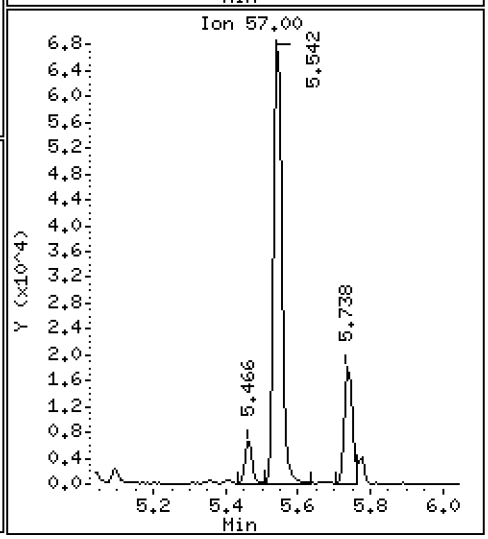












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 90

Date : 25-OCT-2016 03:26

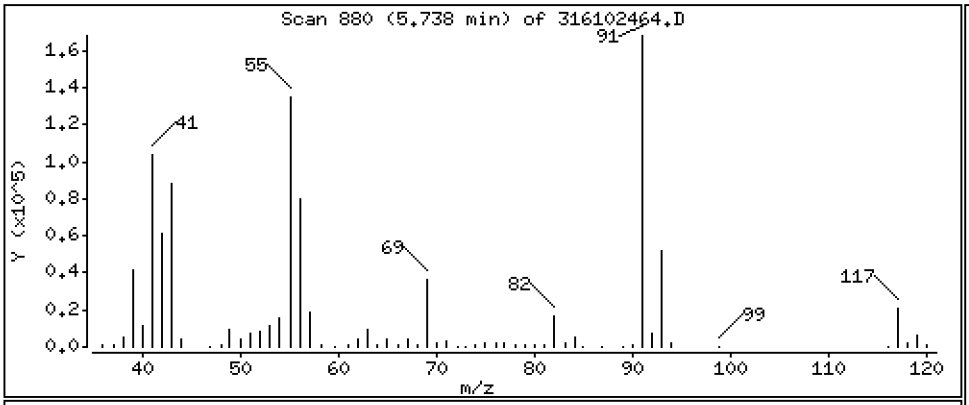
Client ID: LCS for HBN 174041 Instrument: ms03.i

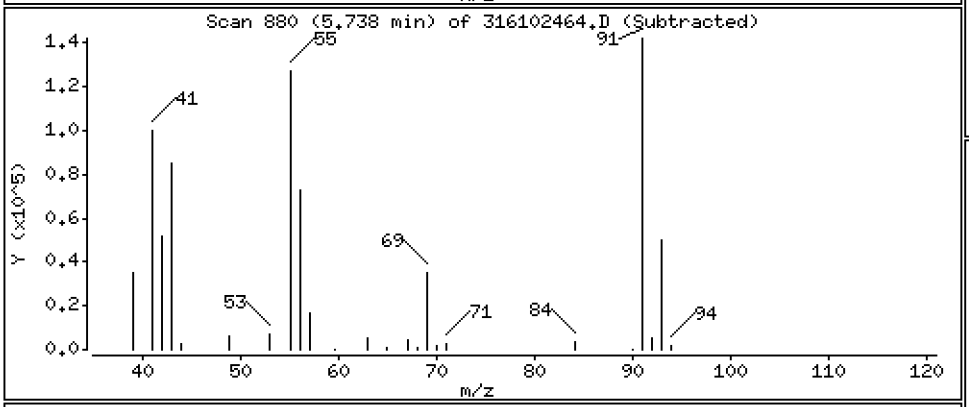
Sample Info: 2428716;;1;3;;LCS;1;

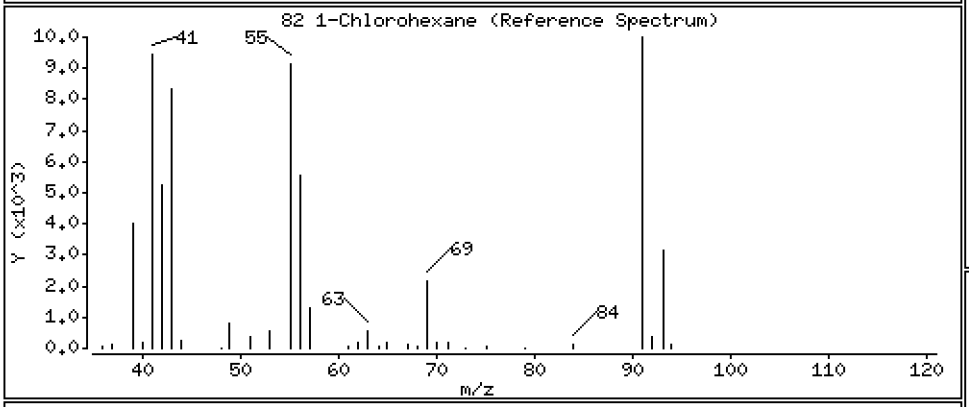
Purge Volume: 5.0 Operator: CJG

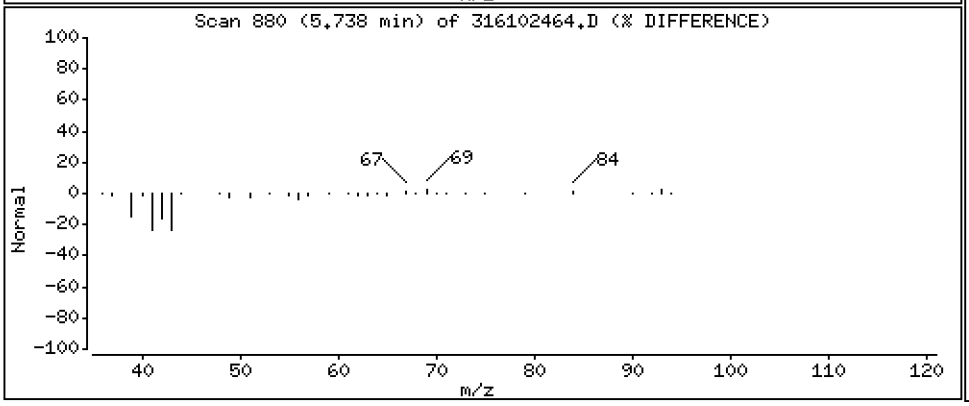
Column phase: DB-VRX Column diameter: 0.25

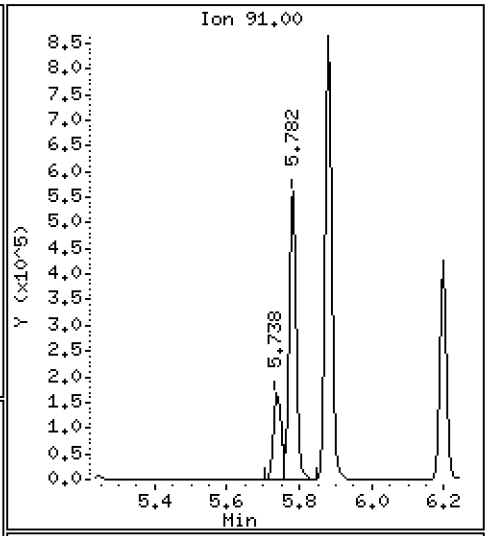
82 1-Chlorohexane Concentration: 18.6517 ug/L

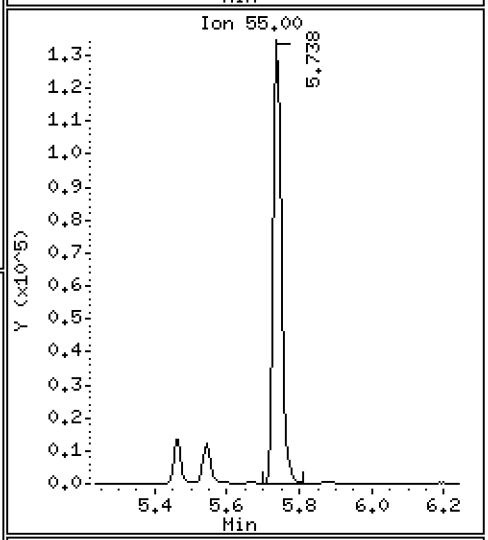


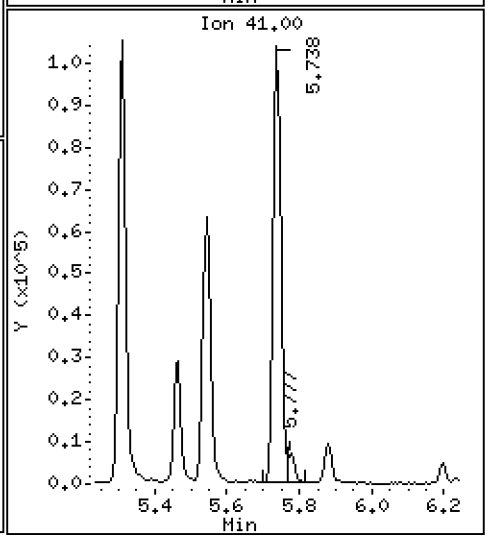












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 91

Date : 25-OCT-2016 03:26

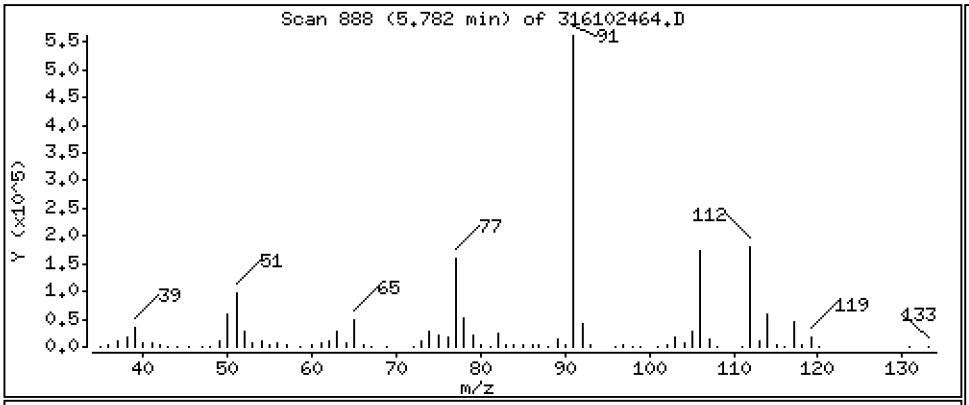
Client ID: LCS for HBN 174041 Instrument: ms03.i

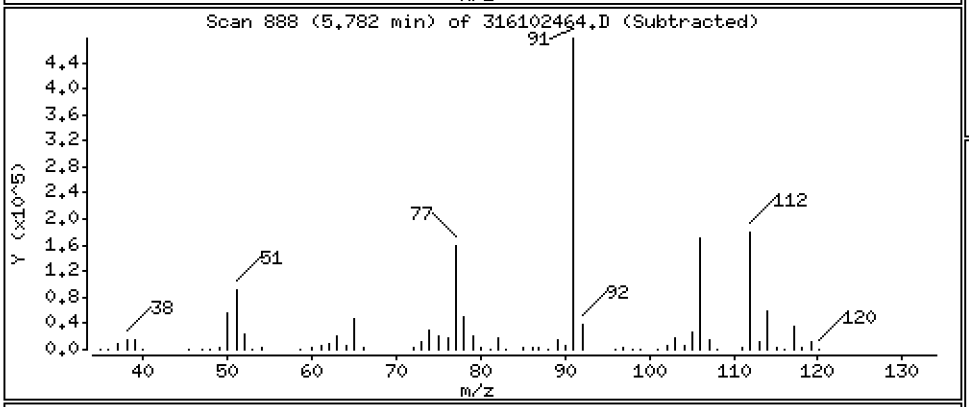
Sample Info: 2428716;;1;3;;LCS;1;

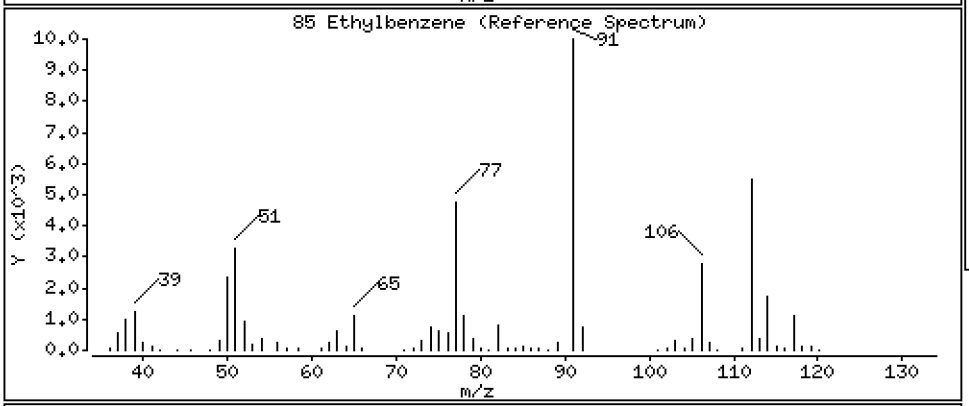
Purge Volume: 5.0 Operator: CJG

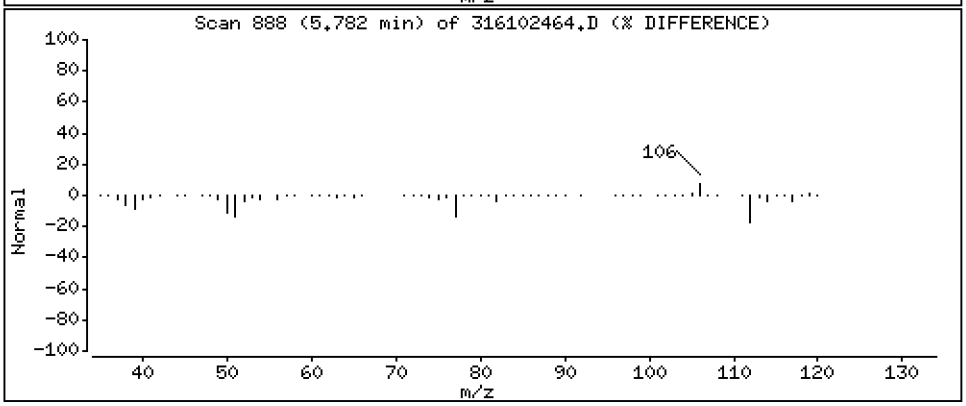
Column phase: DB-VRX Column diameter: 0.25

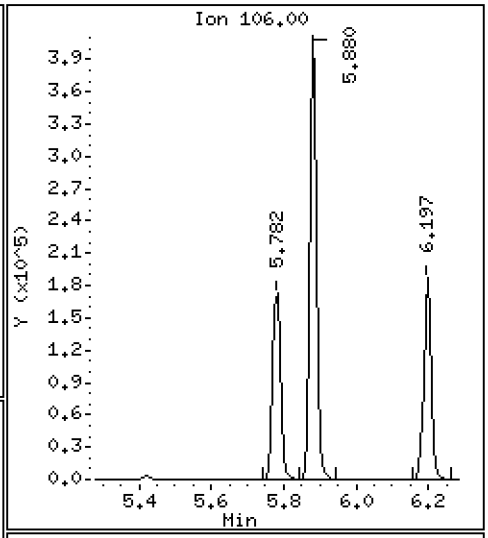
85 Ethylbenzene Concentration: 18.4977 ug/L

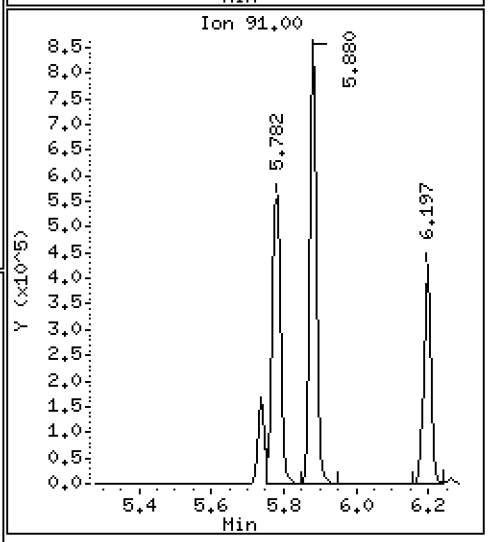












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 92

Date : 25-OCT-2016 03:26

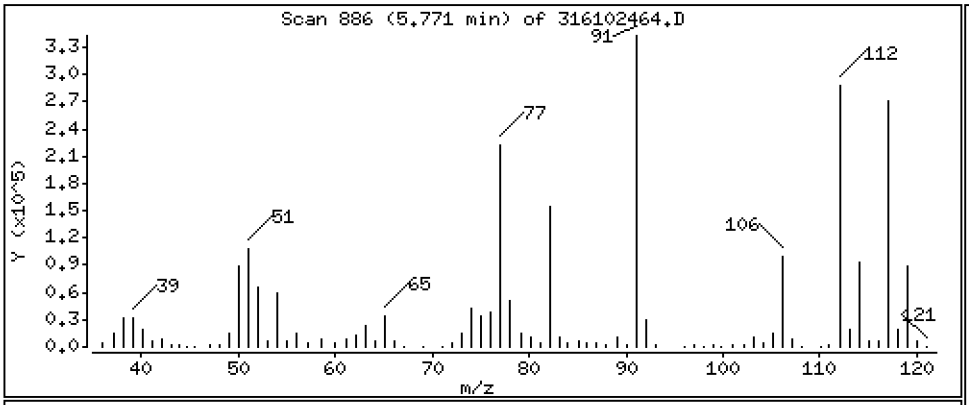
Client ID: LCS for HBN 174041 Instrument: ms03.i

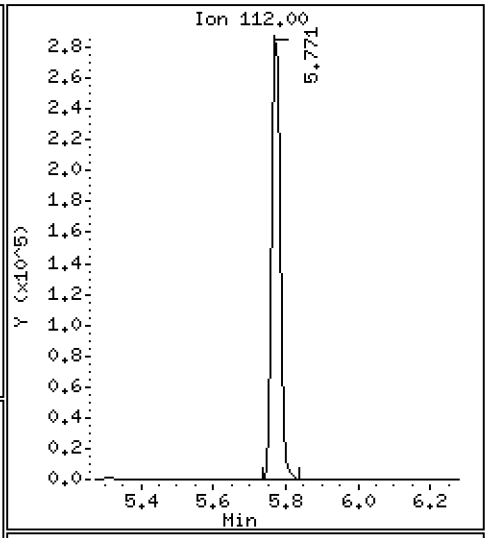
Sample Info: 2428716;;1;3;;LCS;1;

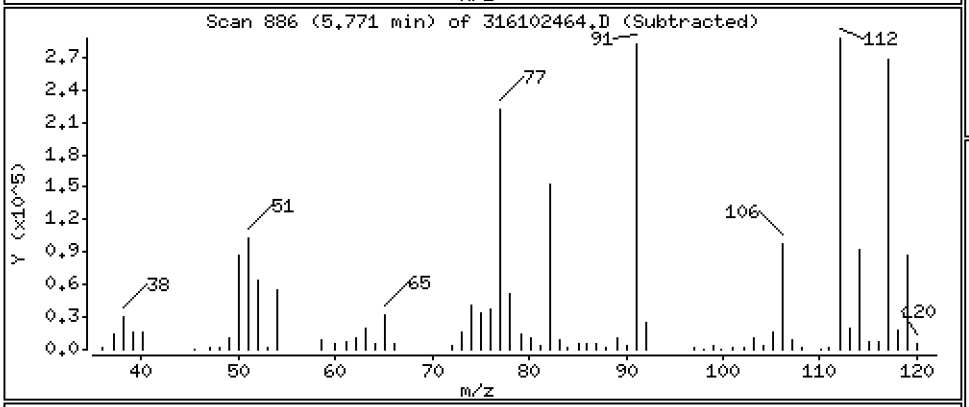
Purge Volume: 5.0 Operator: CJG

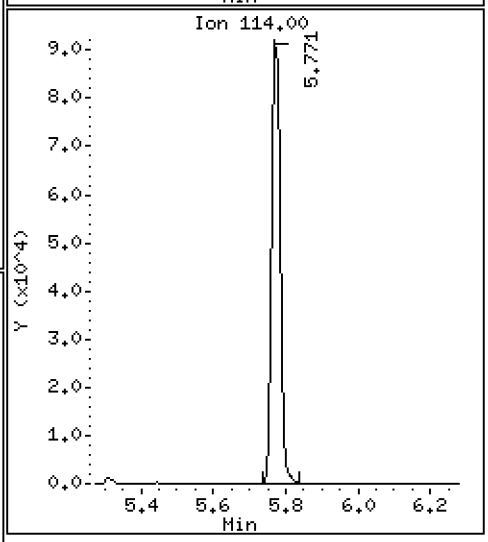
Column phase: DB-VRX Column diameter: 0.25

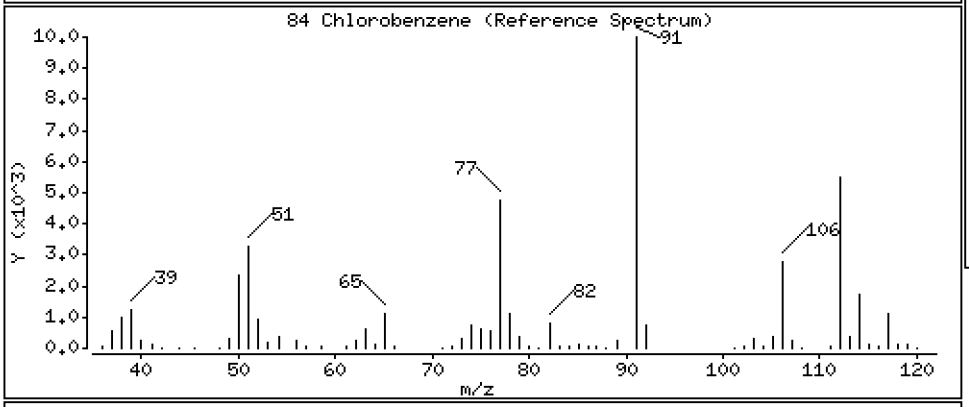
84 Chlorobenzene Concentration: 17.6014 ug/L

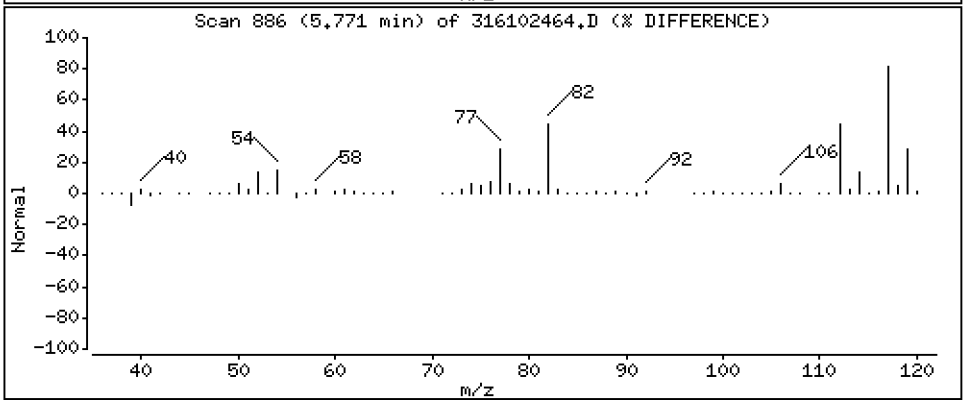












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 93

Date : 25-OCT-2016 03:26

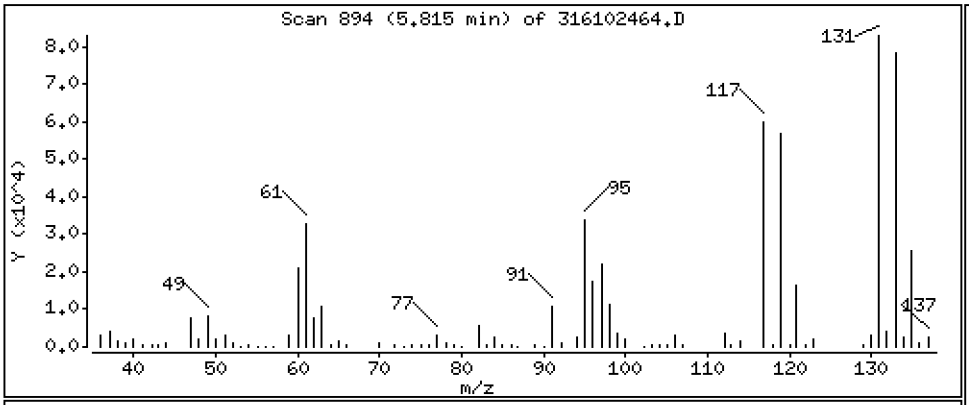
Client ID: LCS for HBN 174041 Instrument: ms03.i

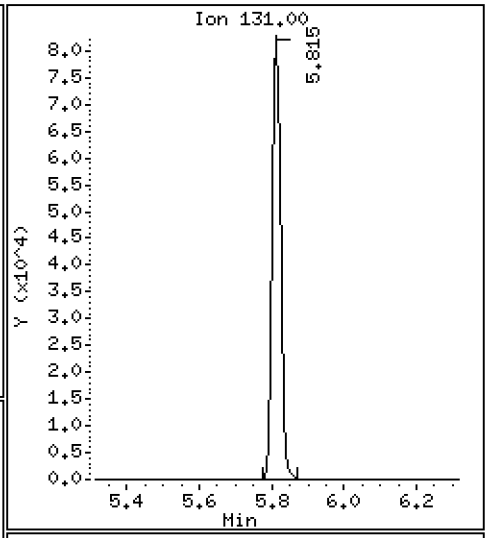
Sample Info: 2428716;;1;3;;LCS;1;

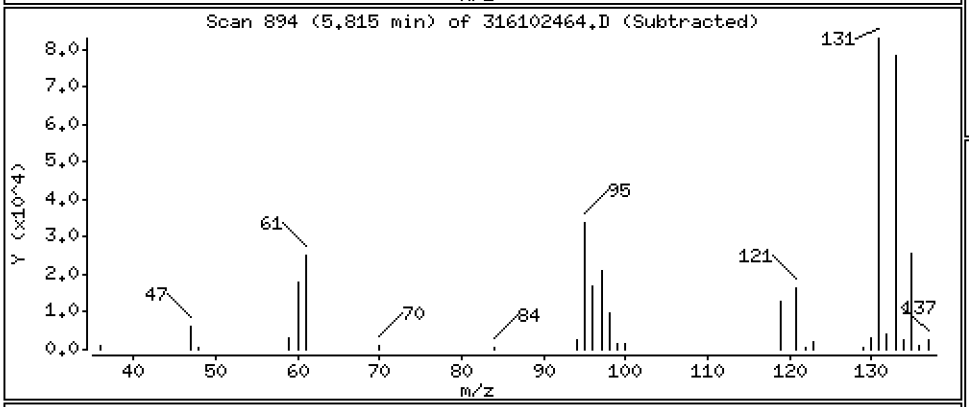
Purge Volume: 5.0 Operator: CJG

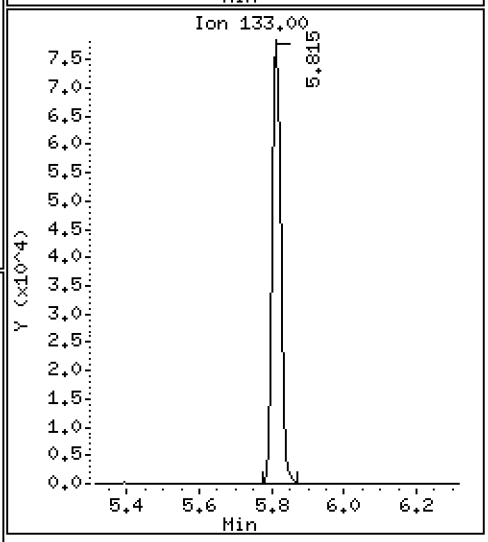
Column phase: DB-VRX Column diameter: 0.25

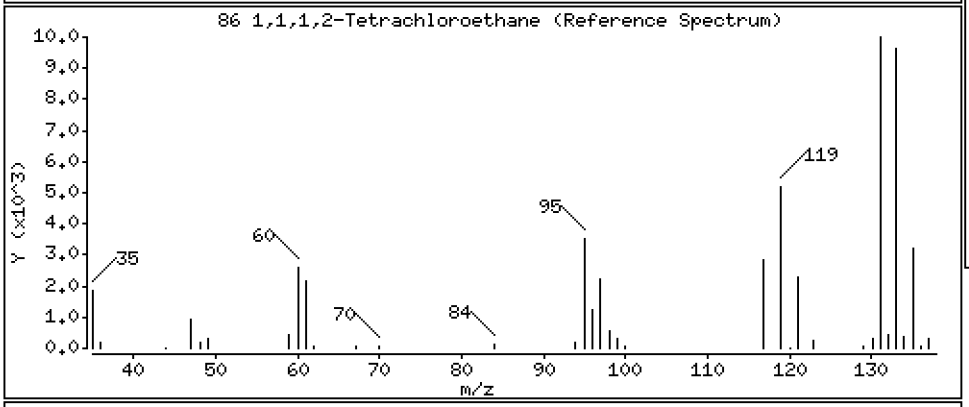
86 1,1,1,2-Tetrachloroethane Concentration: 19.5070 ug/L

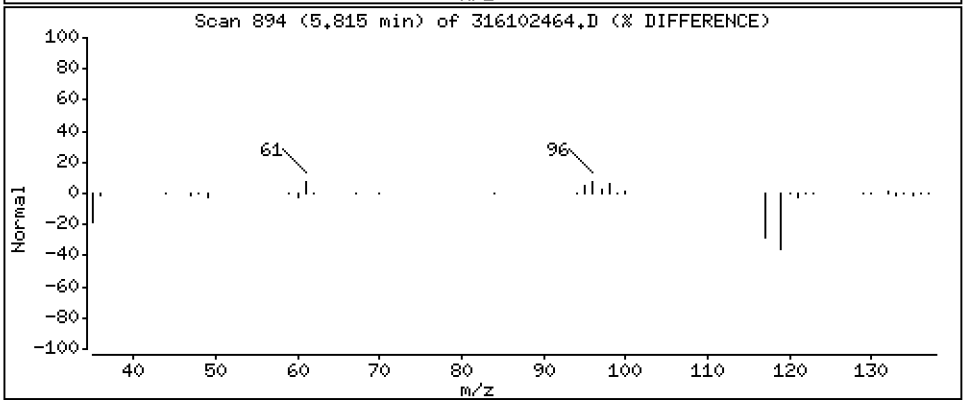












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 94

Date : 25-OCT-2016 03:26

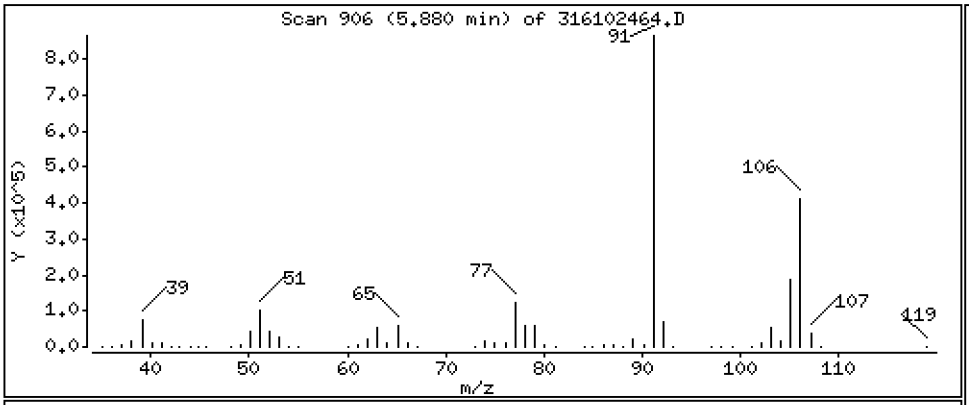
Client ID: LCS for HBN 174041 Instrument: ms03.i

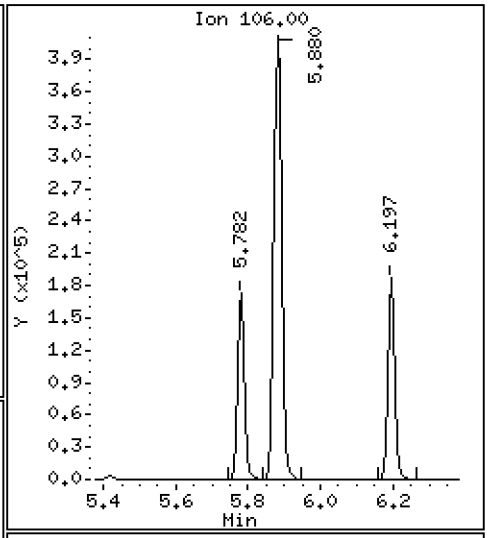
Sample Info: 2428716;;1;3;;LCS;1;

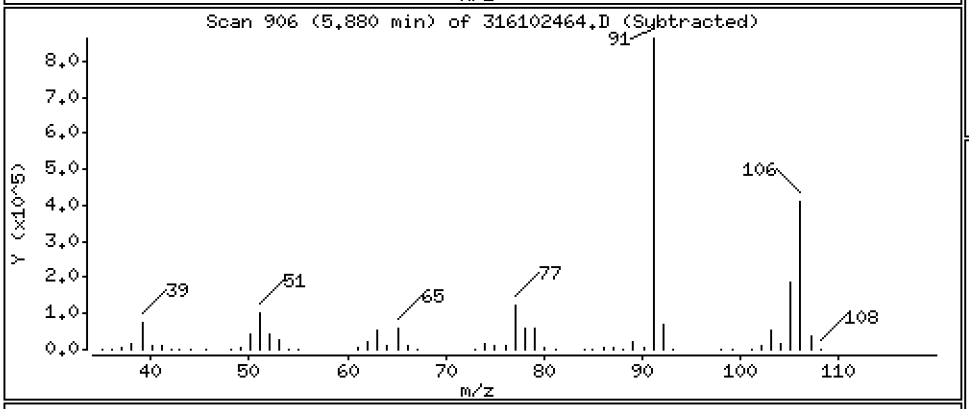
Purge Volume: 5.0 Operator: CJG

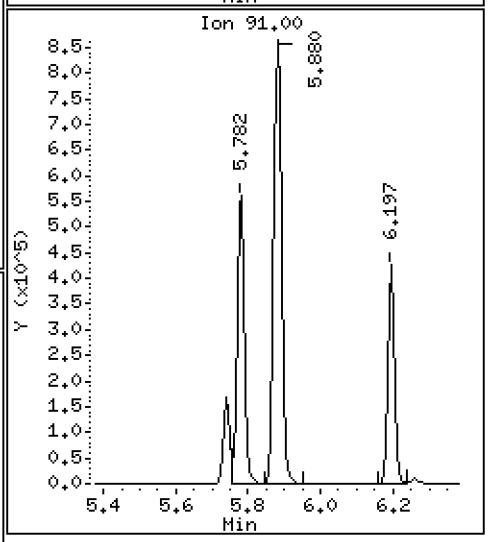
Column phase: DB-VRX Column diameter: 0.25

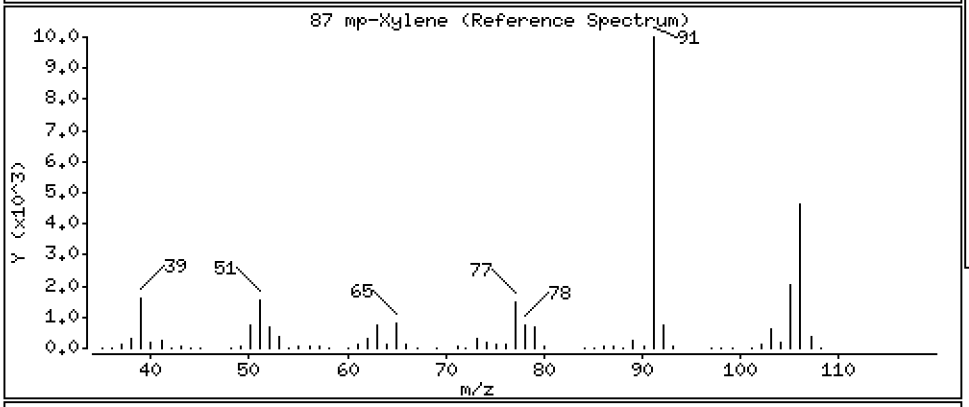
87 mp-Xylene Concentration: 37.2463 ug/L

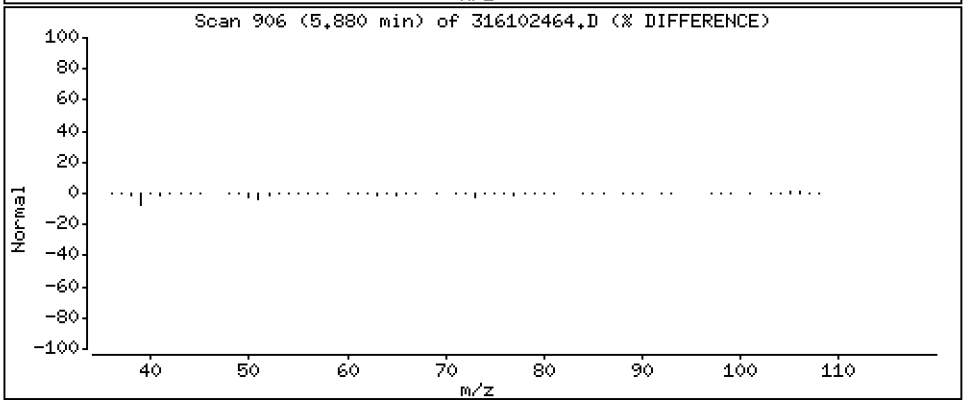












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 95

Date : 25-OCT-2016 03:26

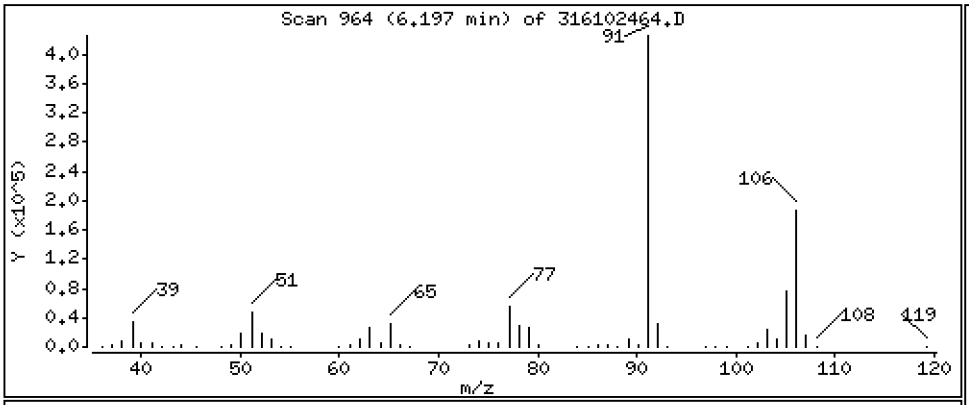
Client ID: LCS for HBN 174041 Instrument: ms03.i

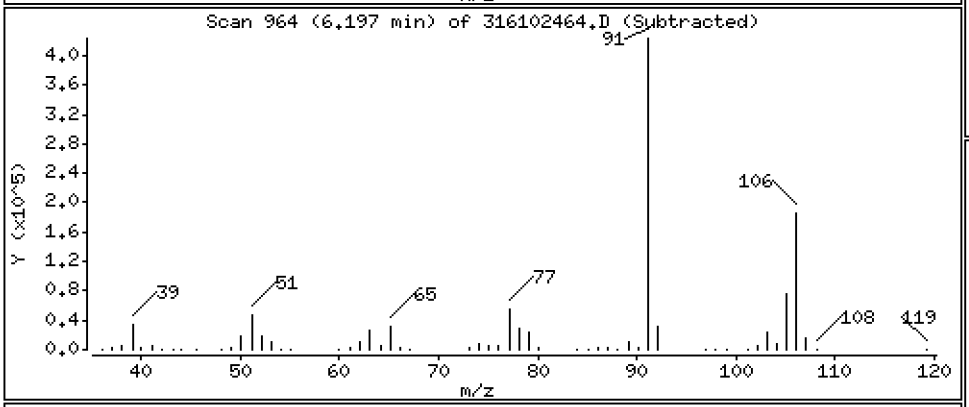
Sample Info: 2428716;;1;3;;LCS;1;

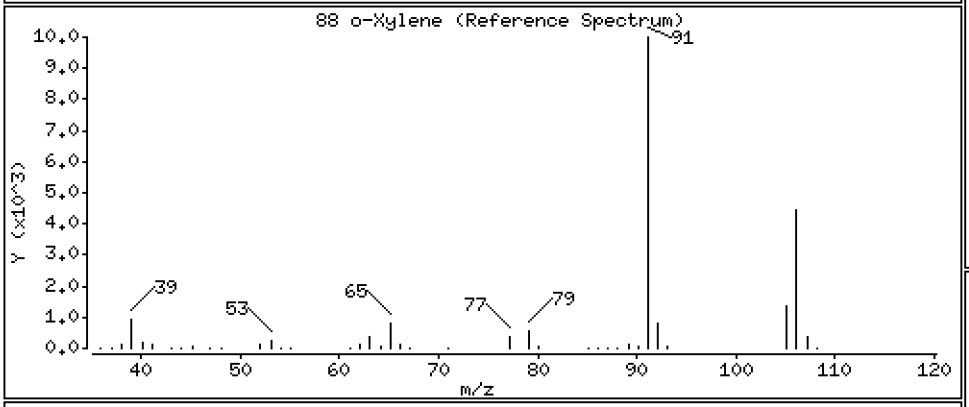
Purge Volume: 5.0 Operator: CJG

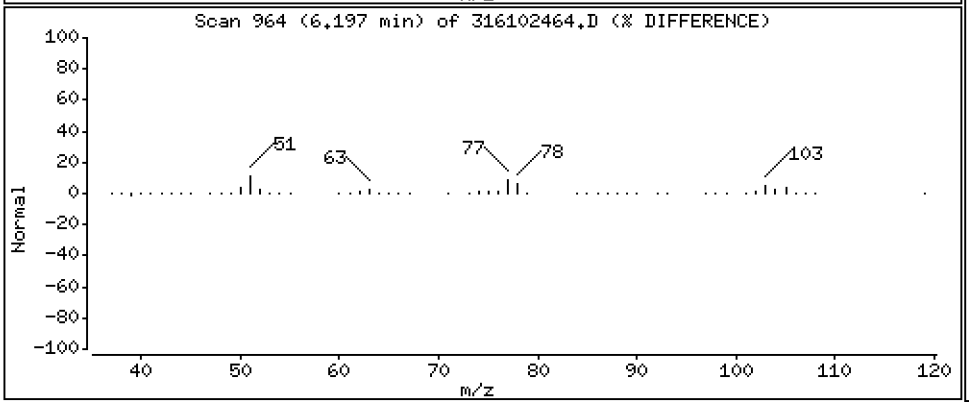
Column phase: DB-VRX Column diameter: 0.25

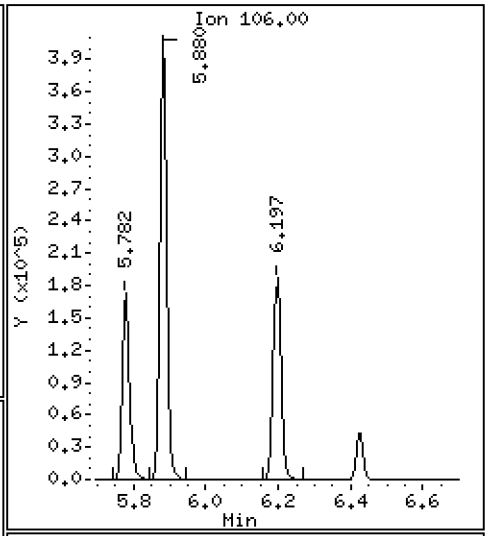
88 o-Xylene Concentration: 19.1204 ug/L

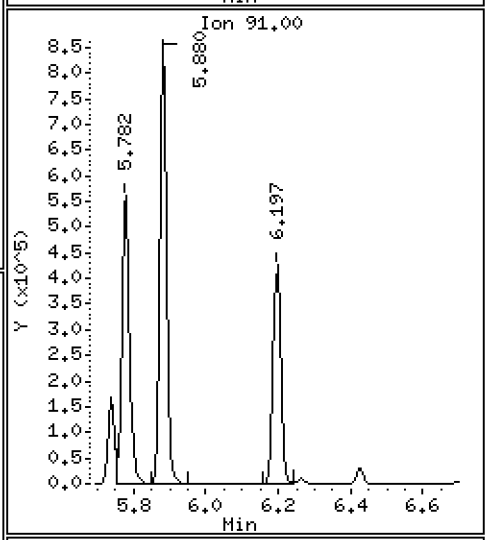


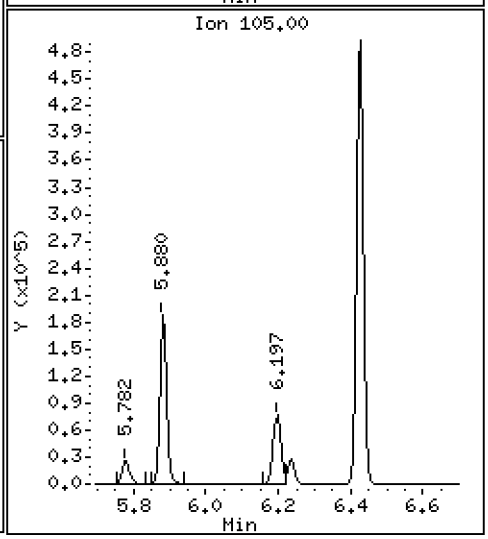












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 96

Date : 25-OCT-2016 03:26

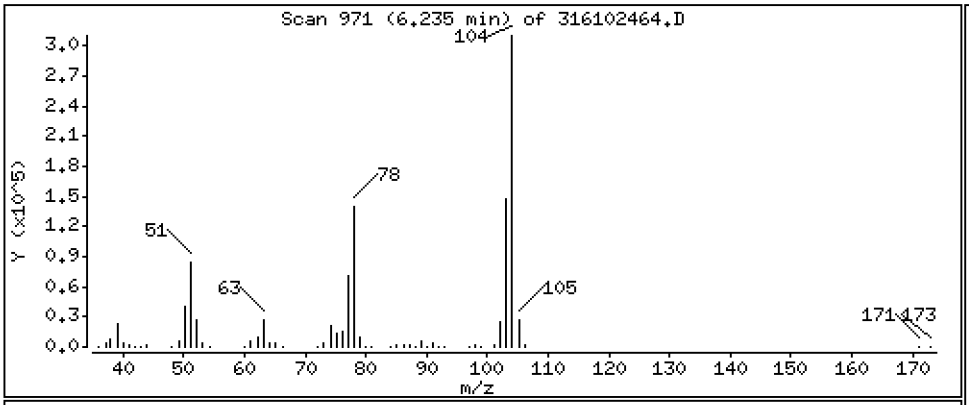
Client ID: LCS for HBN 174041 Instrument: ms03.i

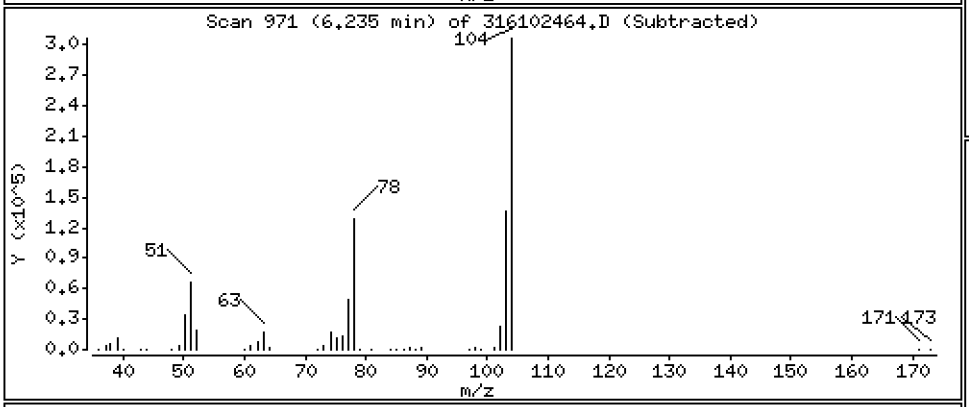
Sample Info: 2428716;;1;3;;LCS;1;

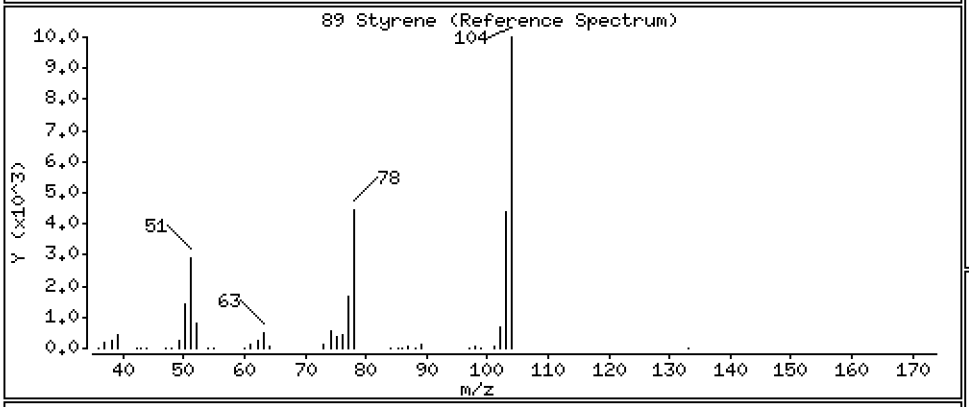
Purge Volume: 5.0 Operator: CJG

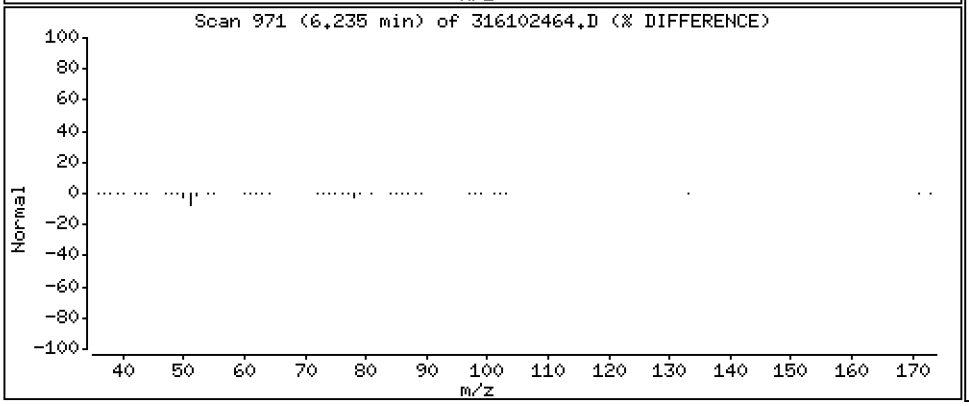
Column phase: DB-VRX Column diameter: 0.25

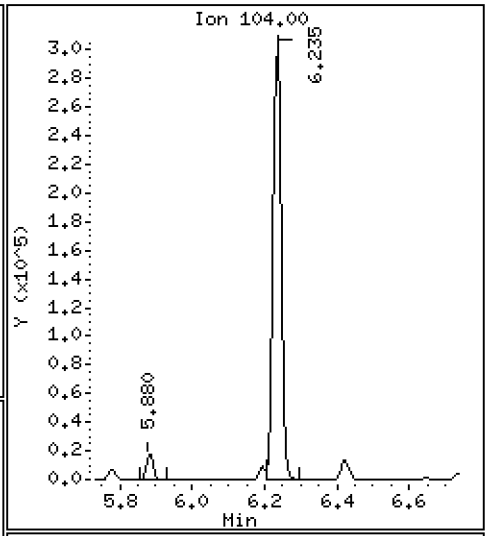
89 Styrene Concentration: 19.6966 ug/L

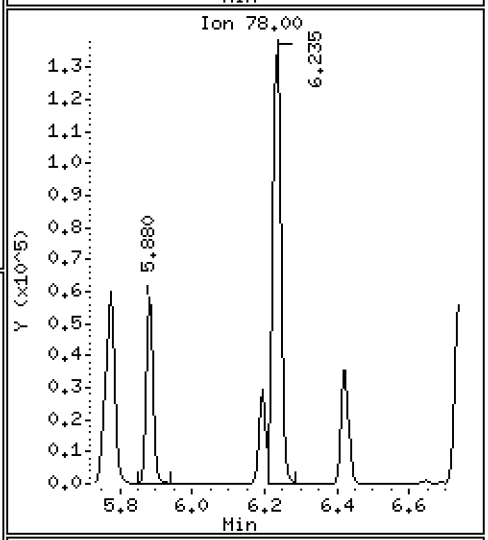


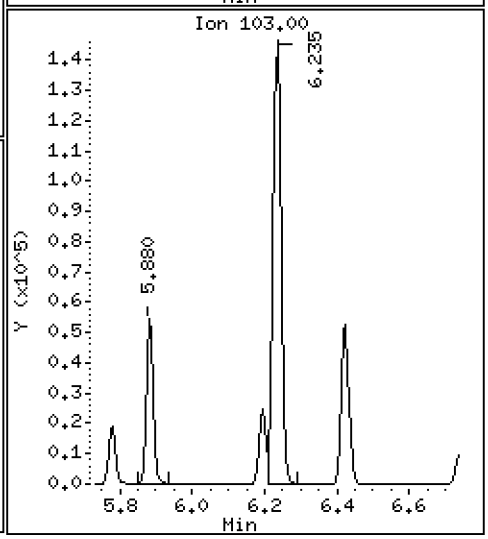












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 97

Date : 25-OCT-2016 03:26

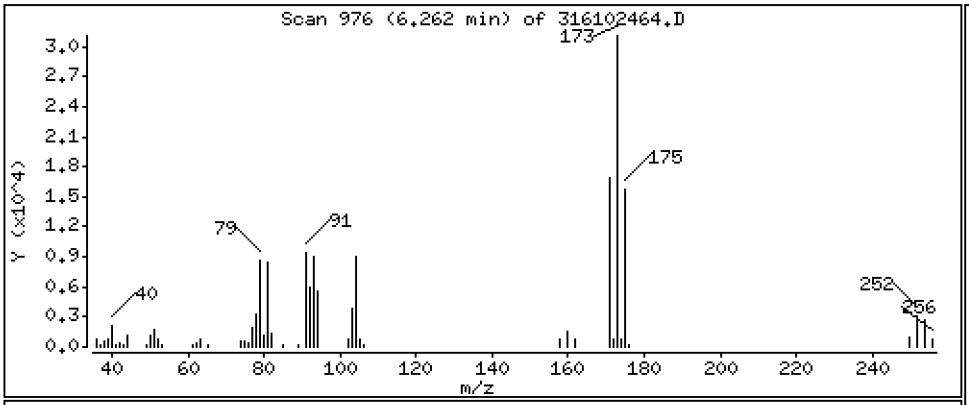
Client ID: LCS for HBN 174041 Instrument: ms03.i

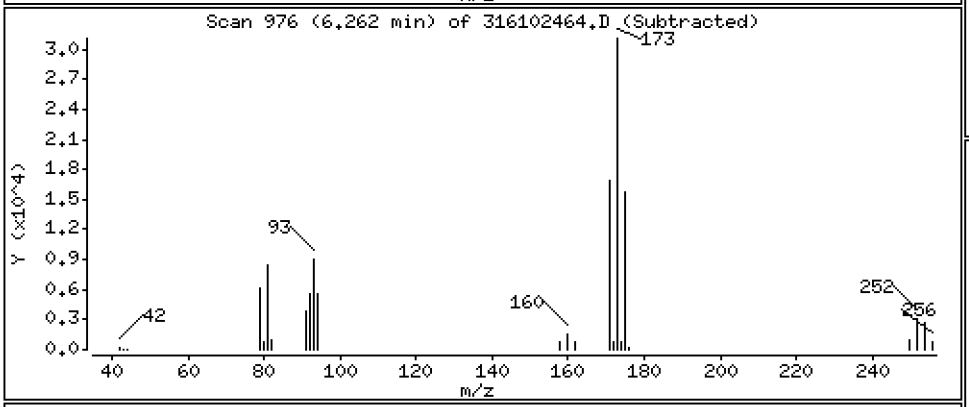
Sample Info: 2428716;;1;3;;LCS;1;

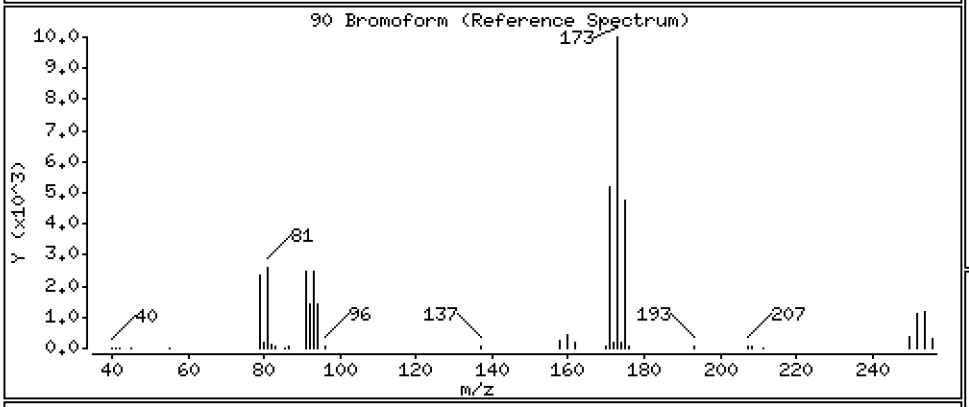
Purge Volume: 5.0 Operator: CJG

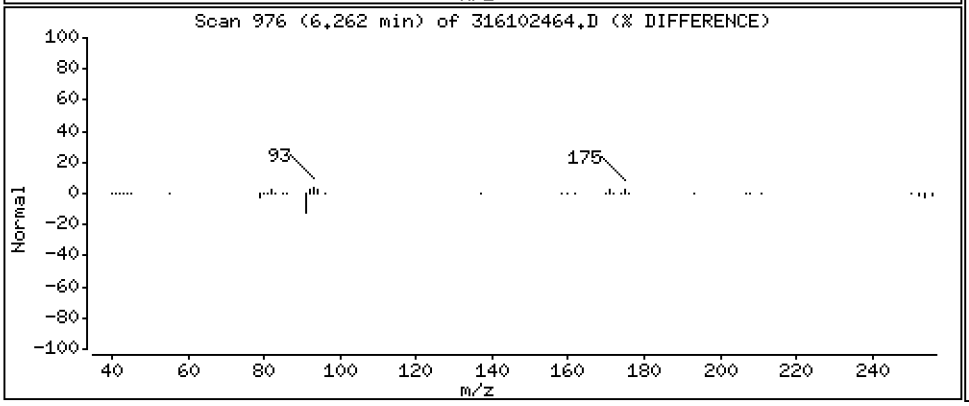
Column phase: DB-VRX Column diameter: 0.25

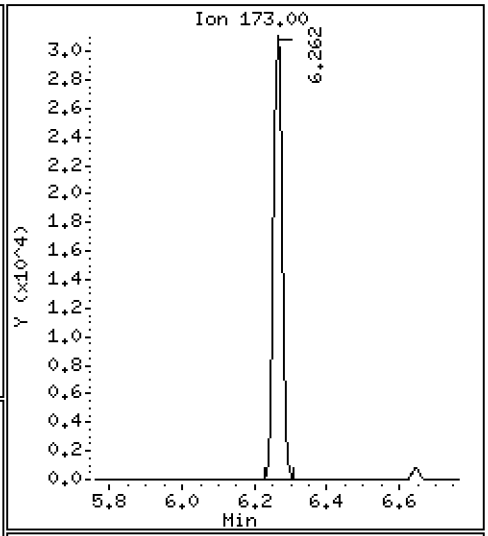
90 Bromoform Concentration: 17.4106 ug/L

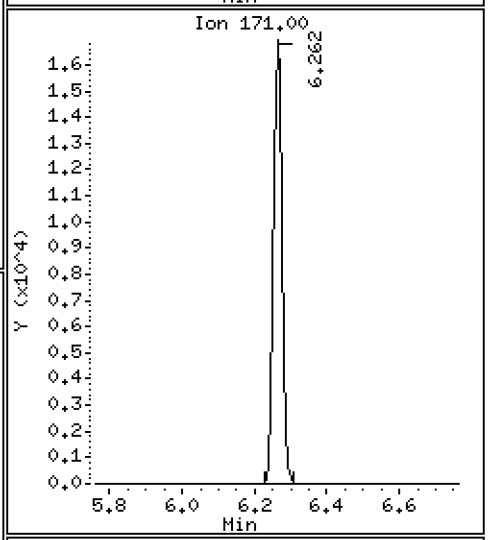


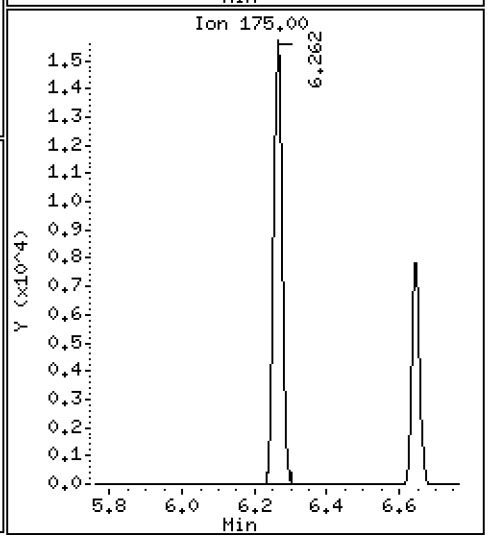












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 98

Date : 25-OCT-2016 03:26

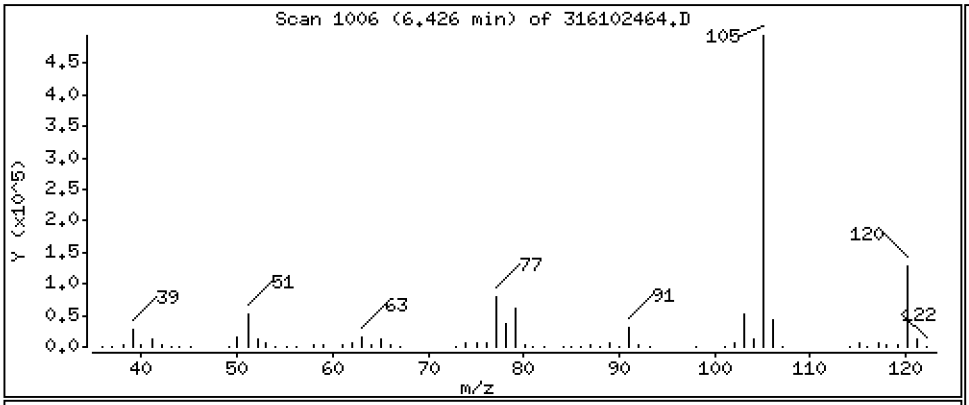
Client ID: LCS for HBN 174041 Instrument: ms03.i

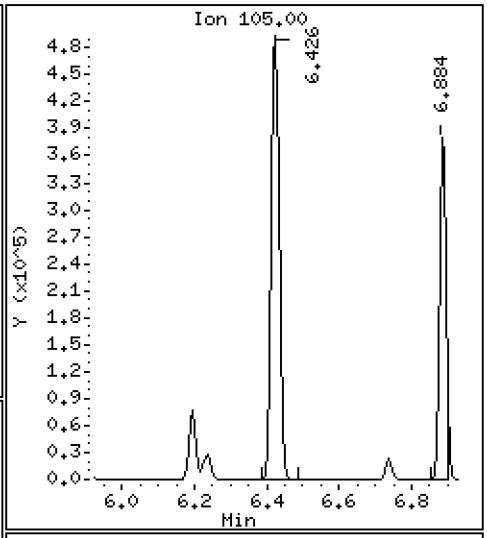
Sample Info: 2428716;;1;3;;LCS;1;

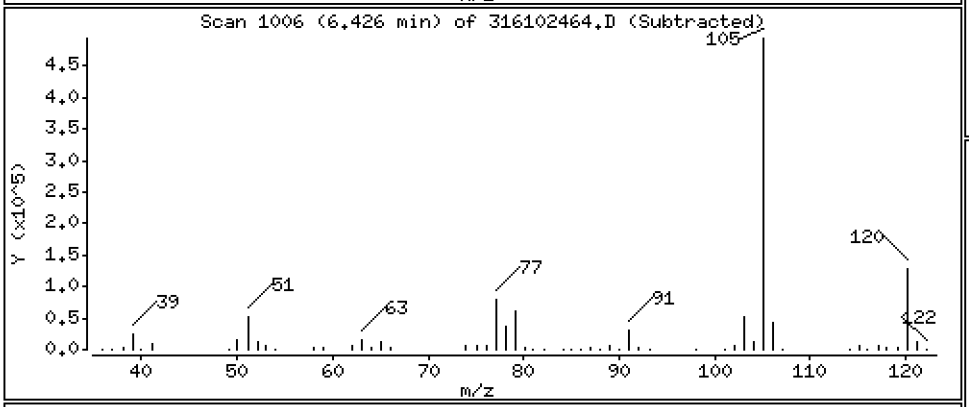
Purge Volume: 5.0 Operator: CJG

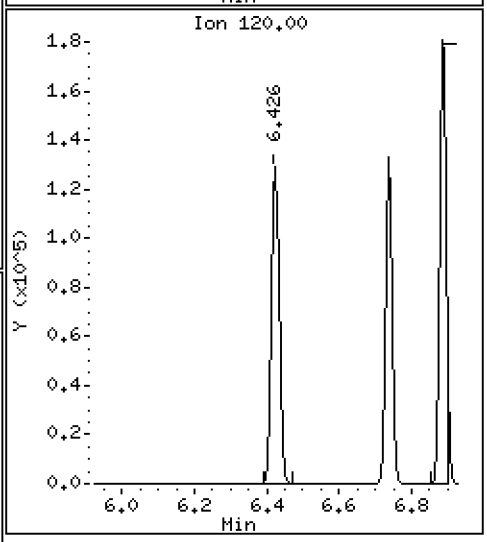
Column phase: DB-VRX Column diameter: 0.25

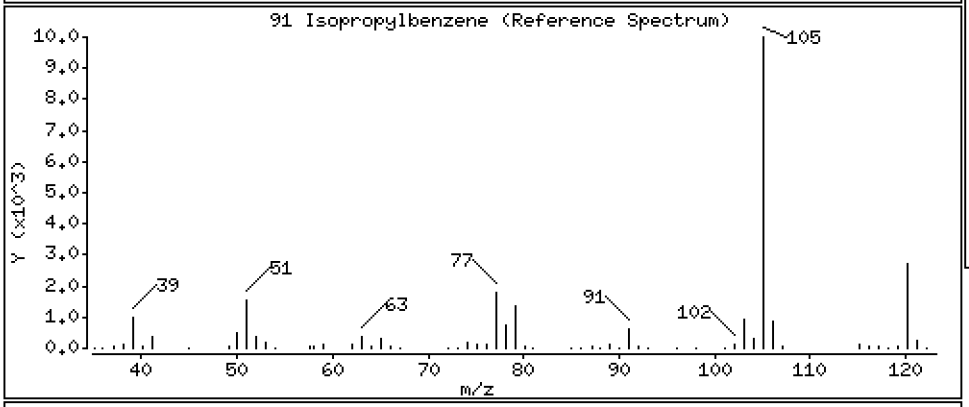
91 Isopropylbenzene Concentration: 19.4952 ug/L

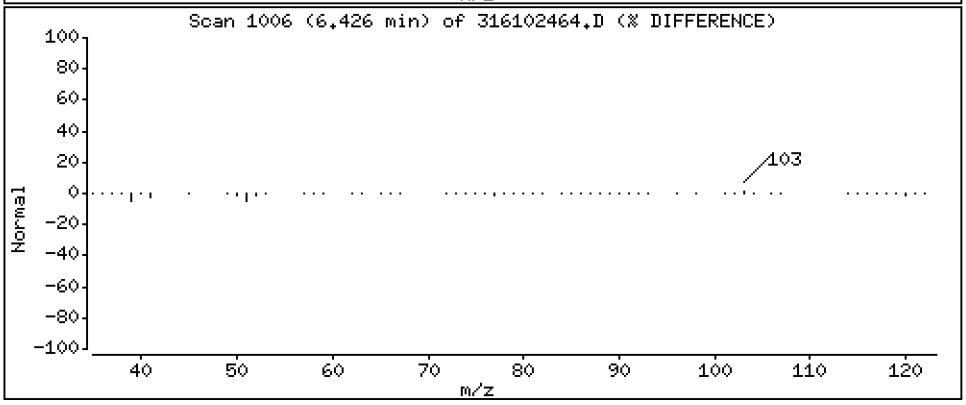












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 99

Date : 25-OCT-2016 03:26

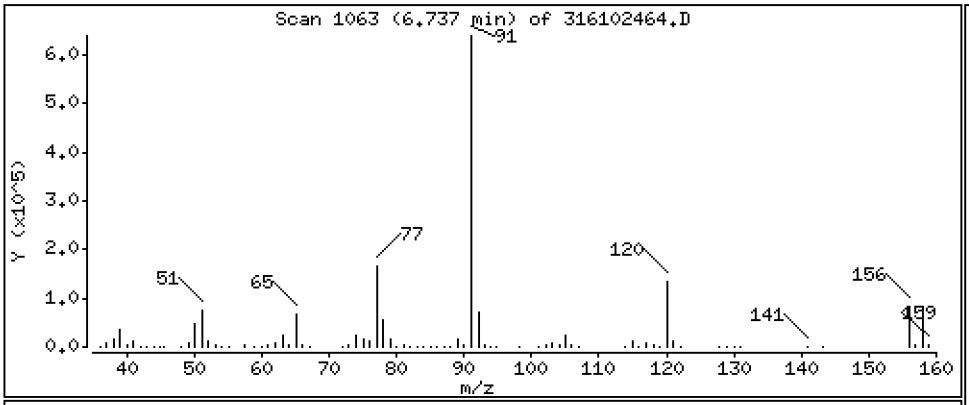
Client ID: LCS for HBN 174041 Instrument: ms03.i

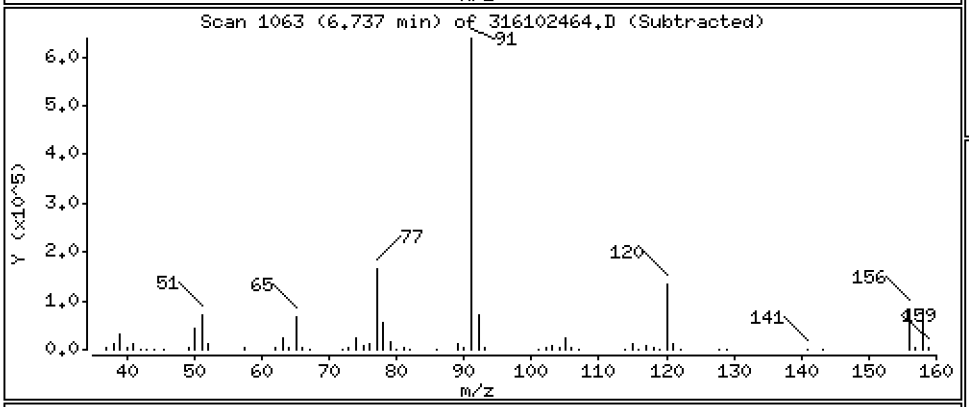
Sample Info: 2428716;;1;3;;LCS;1;

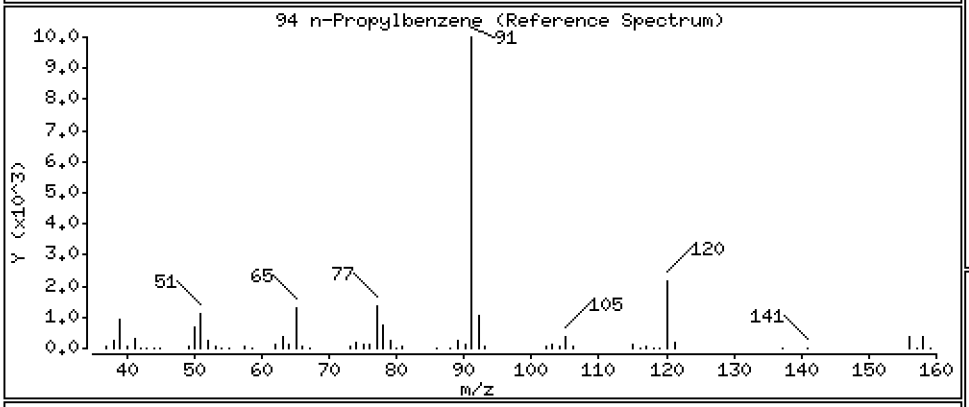
Purge Volume: 5.0 Operator: CJG

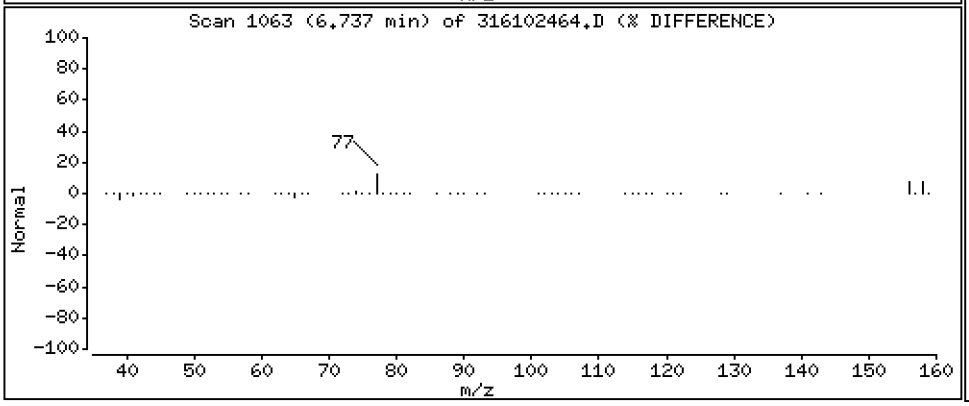
Column phase: DB-VRX Column diameter: 0.25

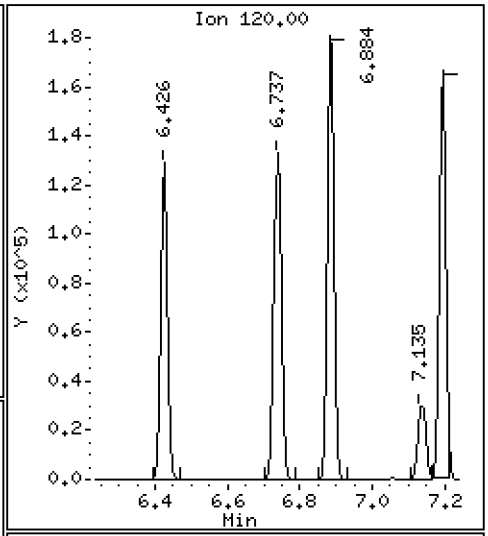
94 n-Propylbenzene Concentration: 19.6143 ug/L

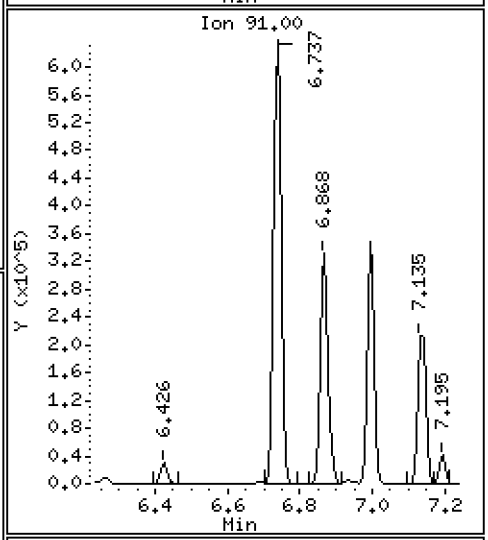


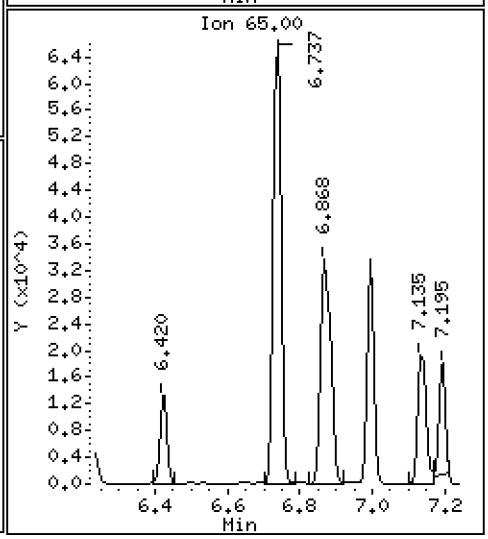












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 100

Date : 25-OCT-2016 03:26

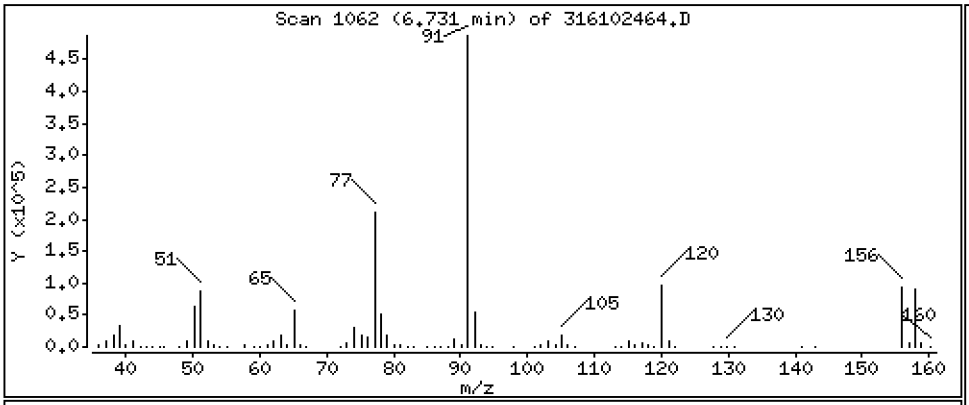
Client ID: LCS for HBN 174041 Instrument: ms03.i

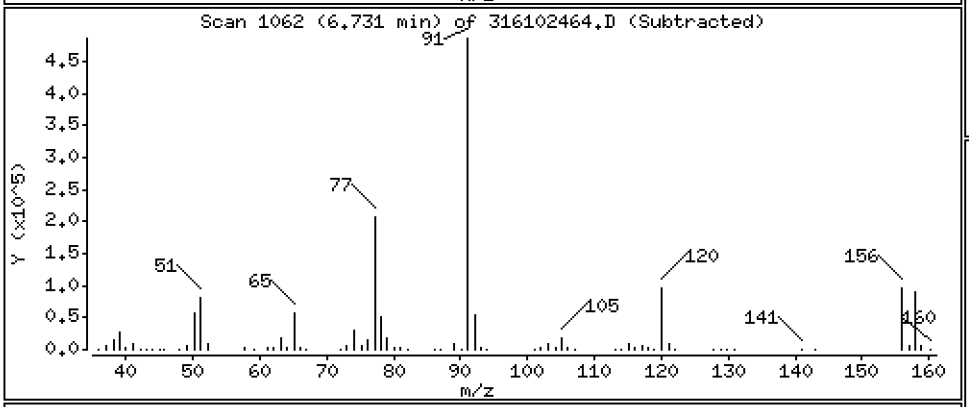
Sample Info: 2428716;;1;3;;LCS;1;

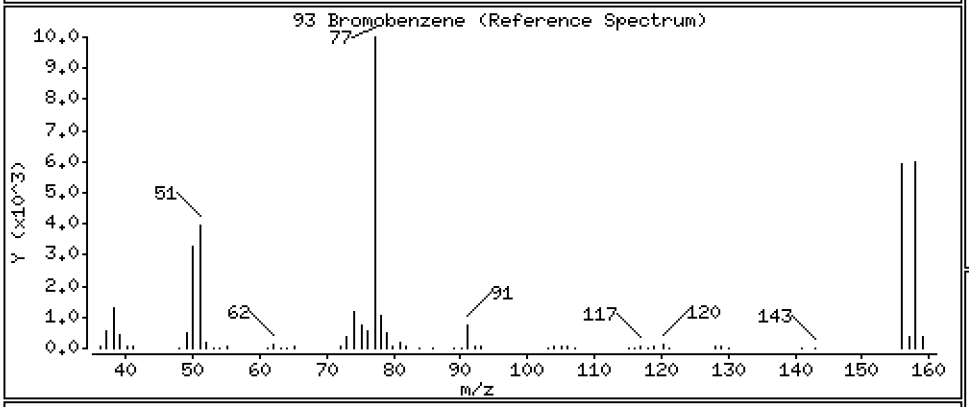
Purge Volume: 5.0 Operator: CJG

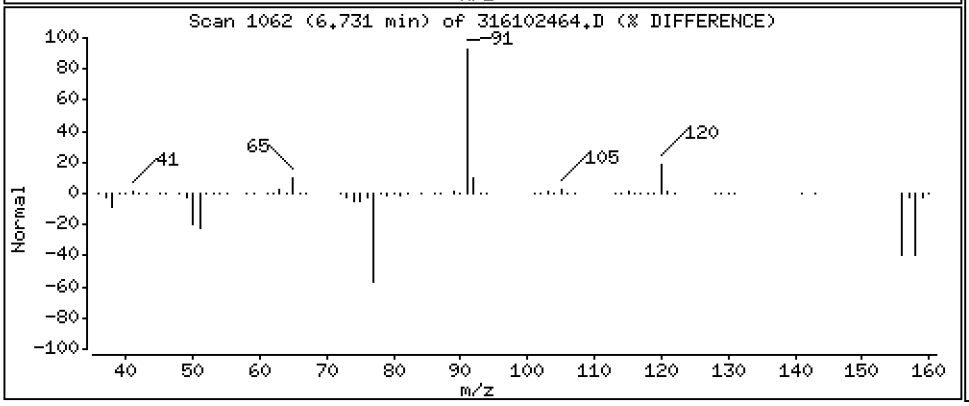
Column phase: DB-VRX Column diameter: 0.25

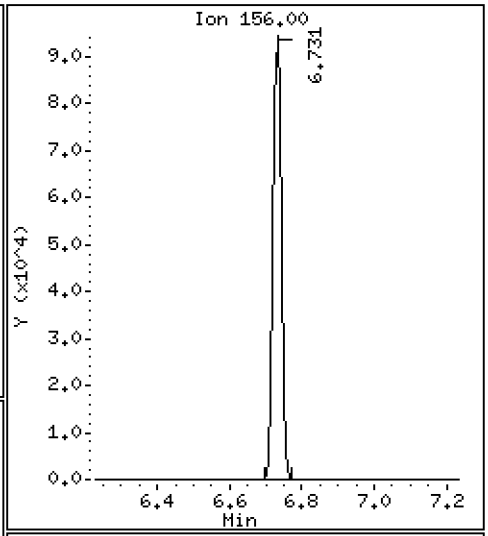
93 Bromobenzene Concentration: 18.3826 ug/L

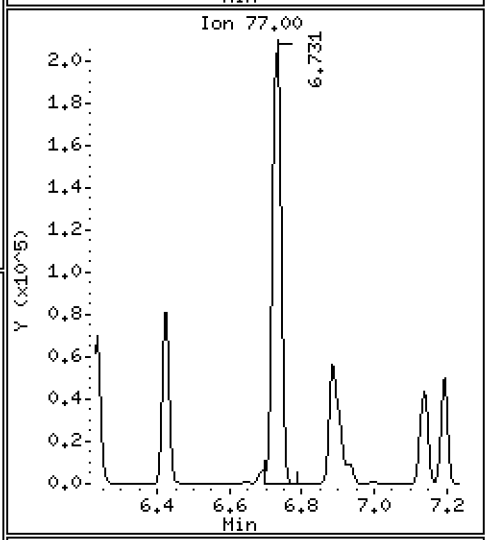


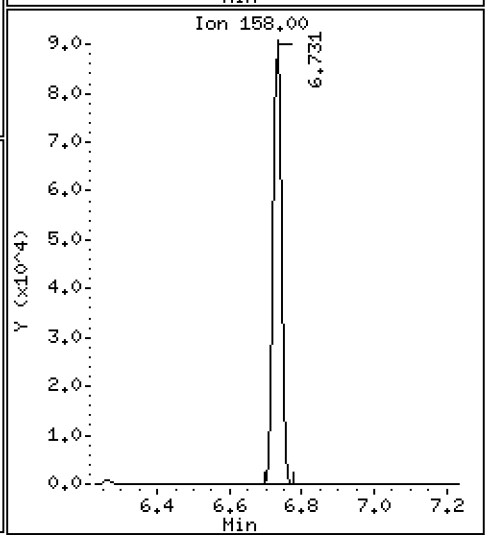












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 101

Date : 25-OCT-2016 03:26

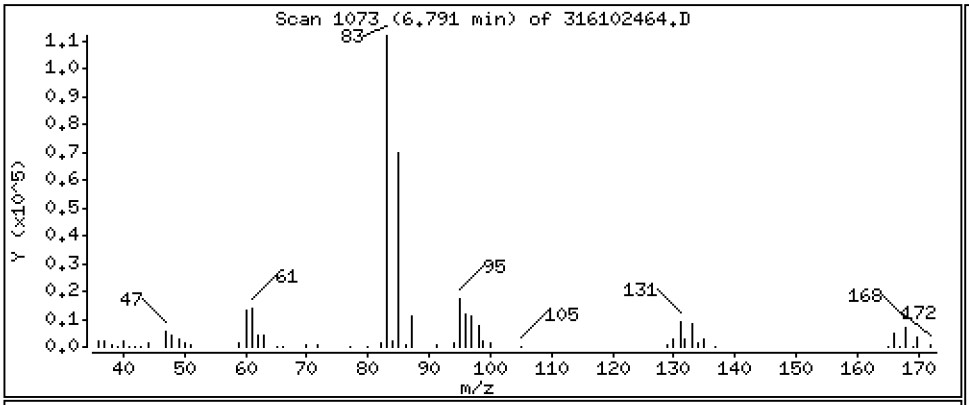
Client ID: LCS for HBN 174041 Instrument: ms03.i

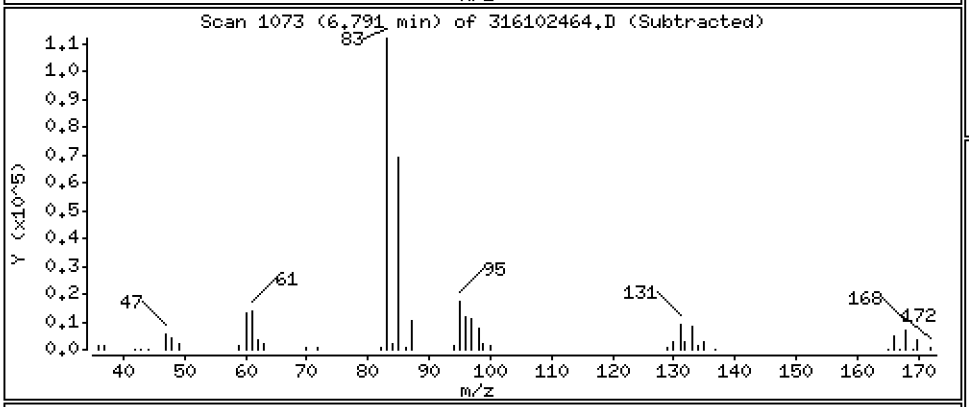
Sample Info: 2428716;;1;3;;LCS;1;

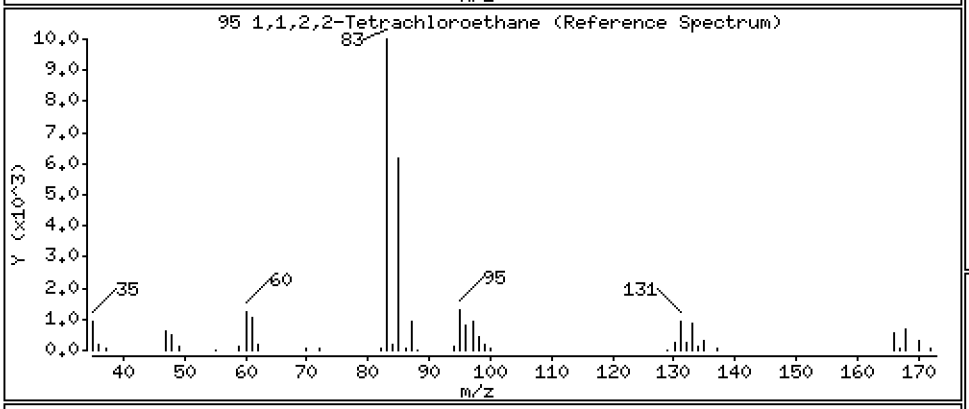
Purge Volume: 5.0 Operator: CJG

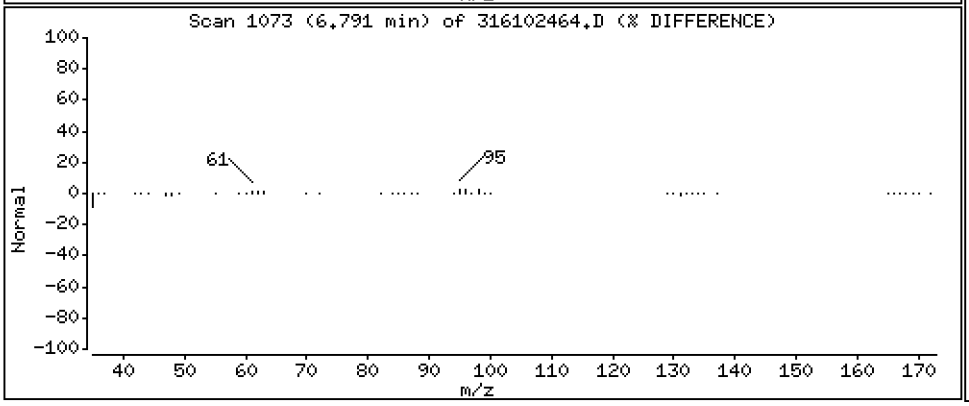
Column phase: DB-VRX Column diameter: 0.25

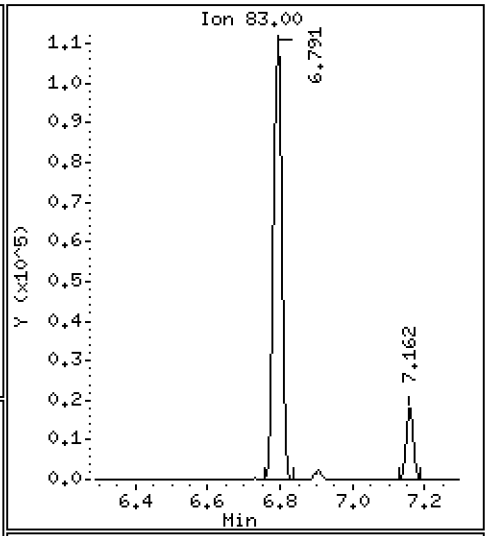
95 1,1,2,2-Tetrachloroethane Concentration: 18.5747 ug/L

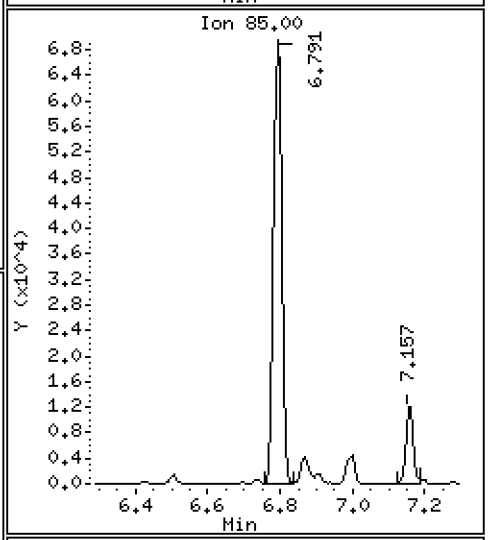


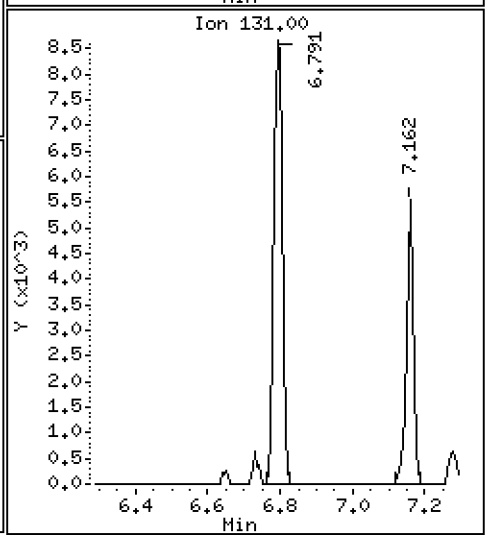












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 102

Date : 25-OCT-2016 03:26

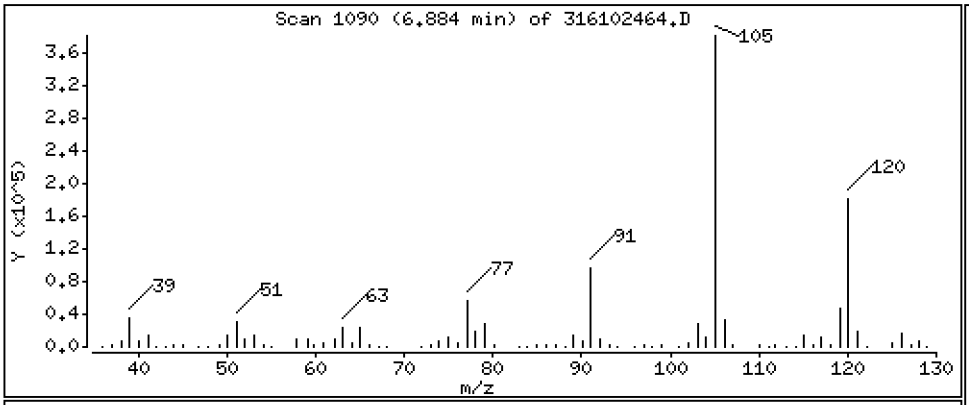
Client ID: LCS for HBN 174041 Instrument: ms03.i

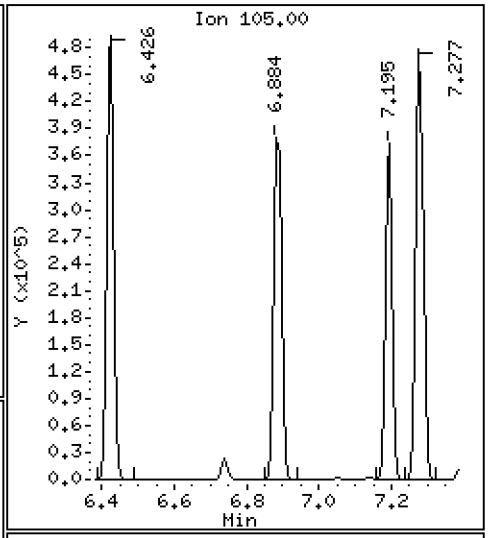
Sample Info: 2428716;;1;3;;LCS;1;

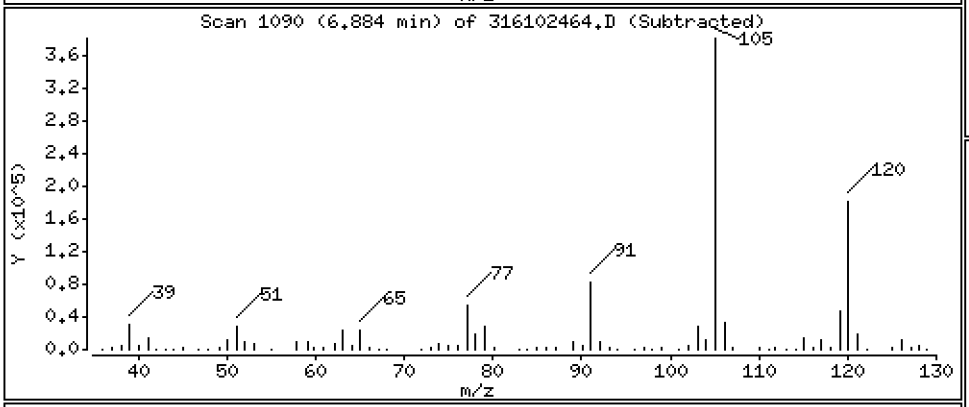
Purge Volume: 5.0 Operator: CJG

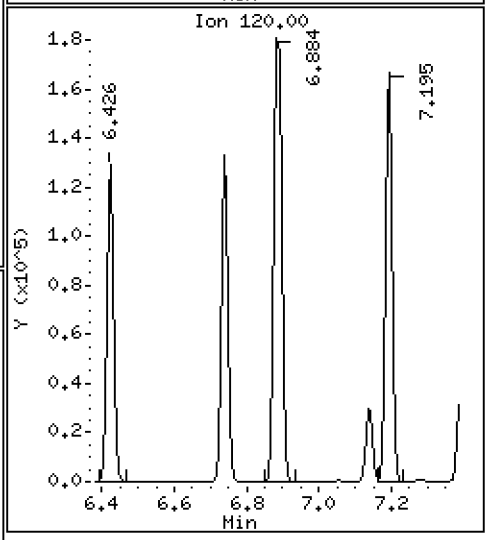
Column phase: DB-VRX Column diameter: 0.25

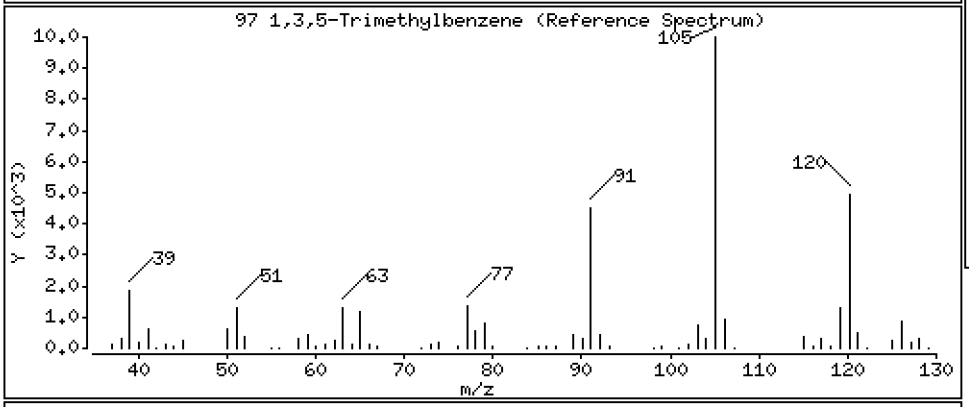
97 1,3,5-Trimethylbenzene Concentration: 19.9697 ug/L

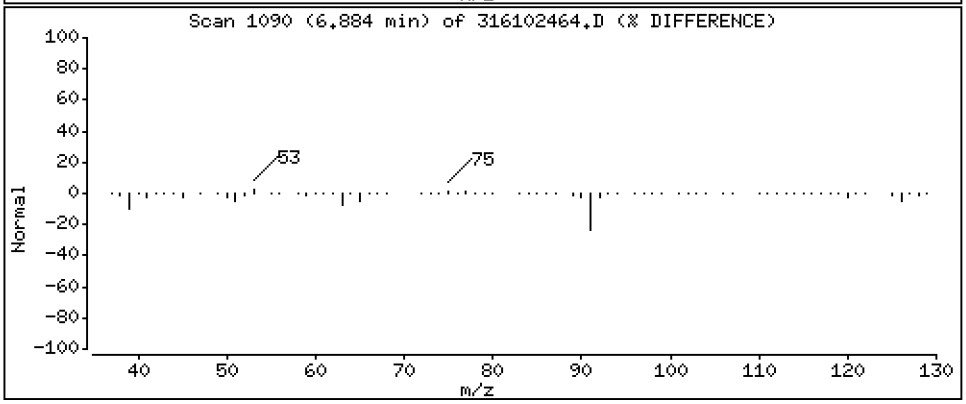












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 103

Date : 25-OCT-2016 03:26

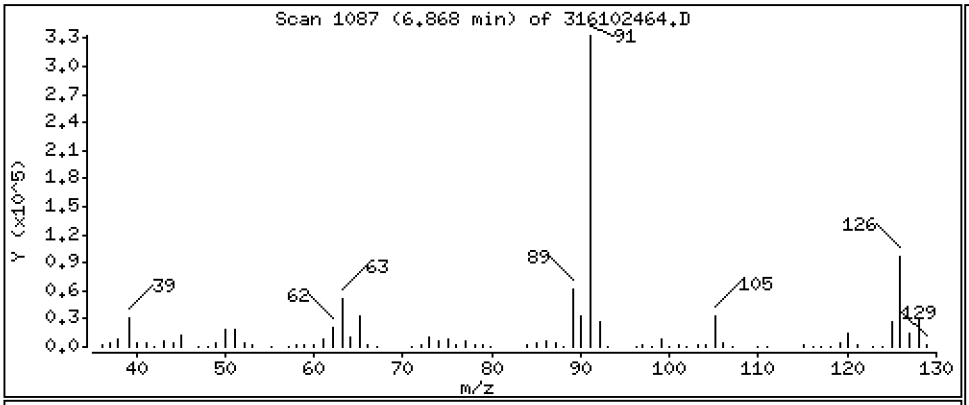
Client ID: LCS for HBN 174041 Instrument: ms03.i

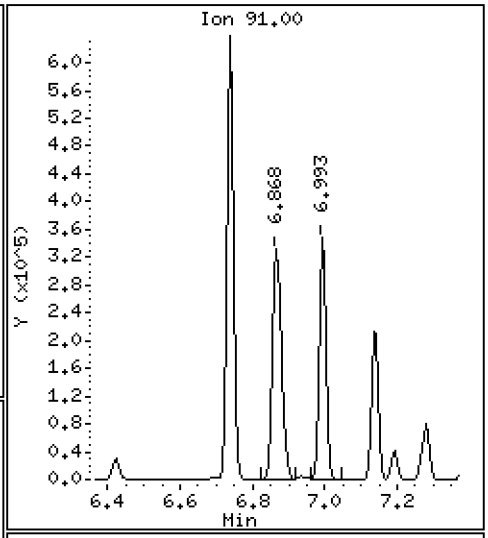
Sample Info: 2428716;;1;3;;LCS;1;

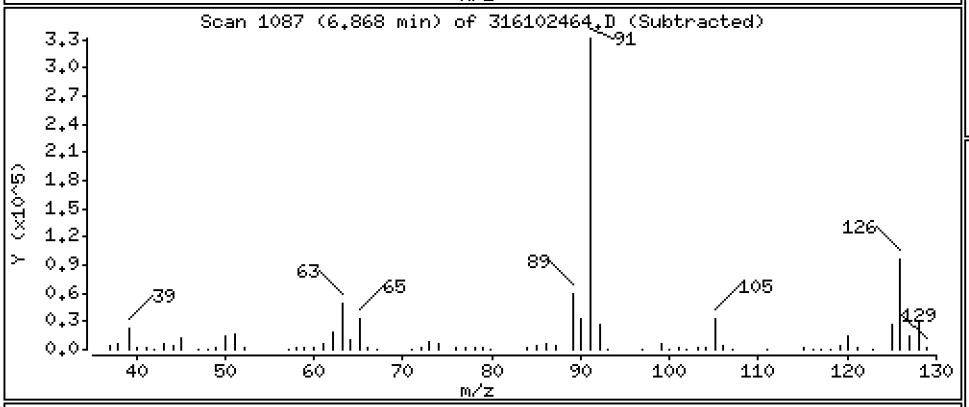
Purge Volume: 5.0 Operator: CJG

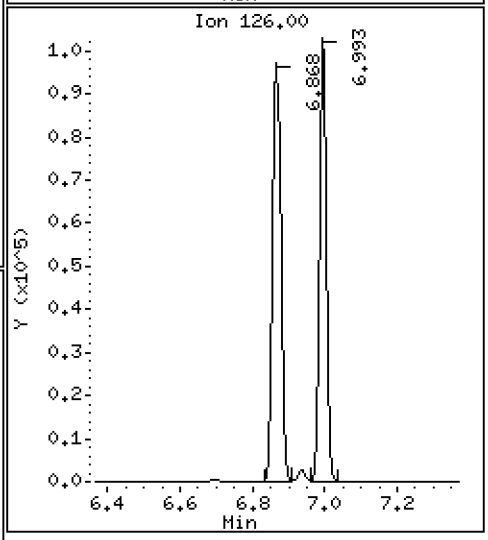
Column phase: DB-VRX Column diameter: 0.25

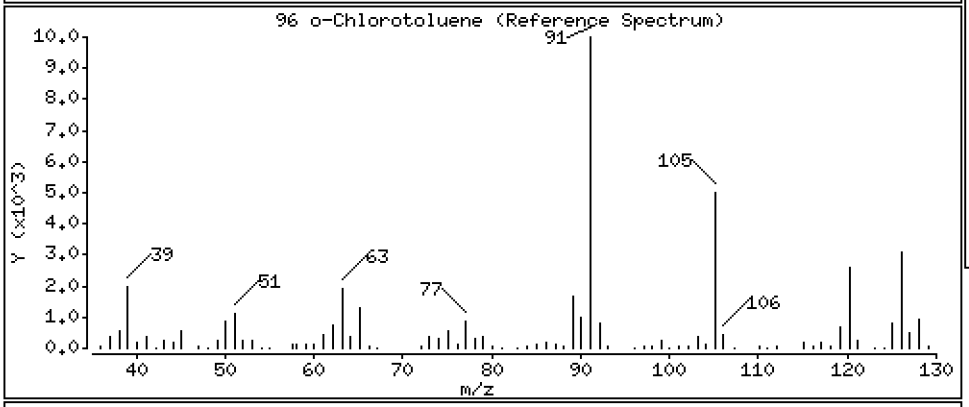
96 o-Chlorotoluene Concentration: 18.8257 ug/L

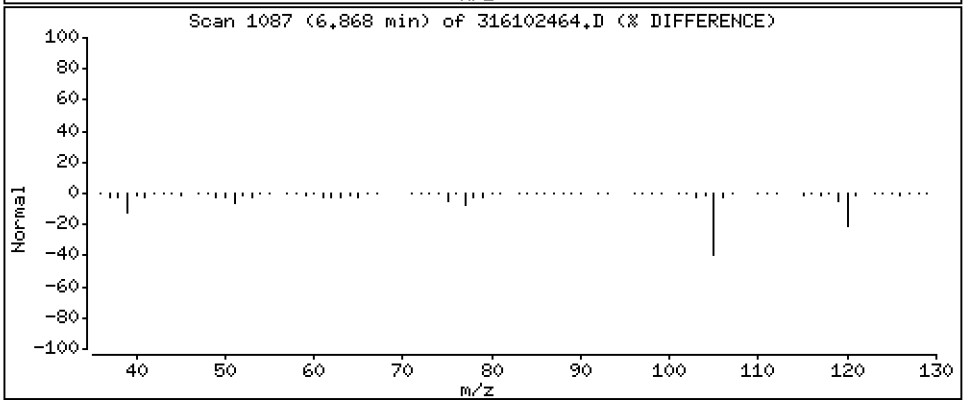












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 104

Date : 25-OCT-2016 03:26

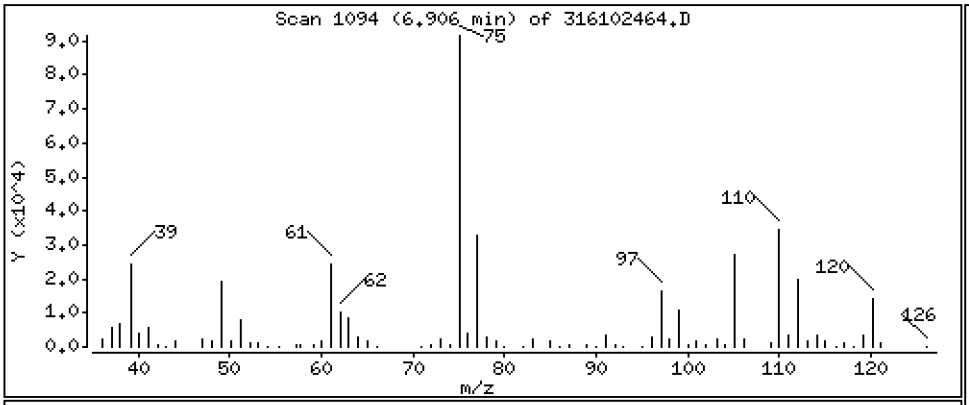
Client ID: LCS for HBN 174041 Instrument: ms03.i

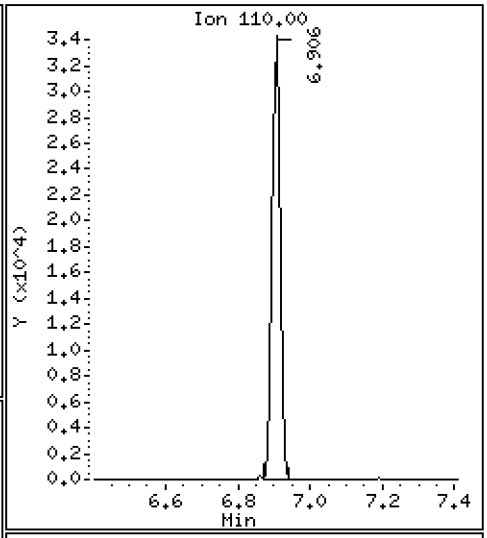
Sample Info: 2428716;;1;3;;LCS;1;

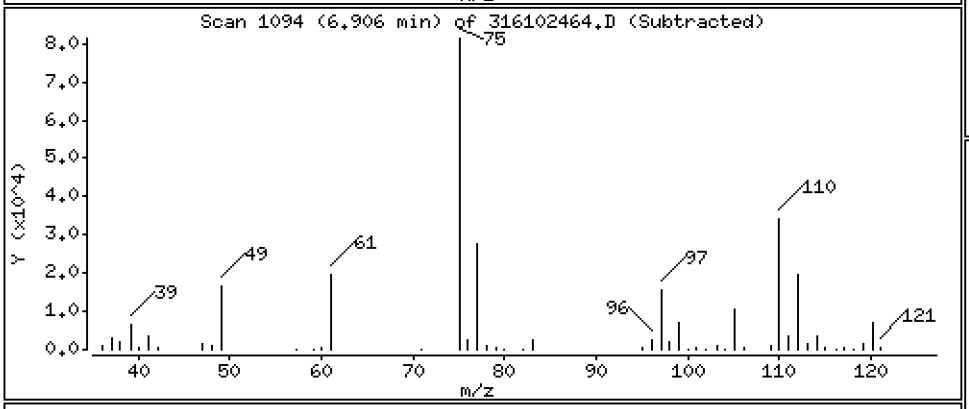
Purge Volume: 5.0 Operator: CJG

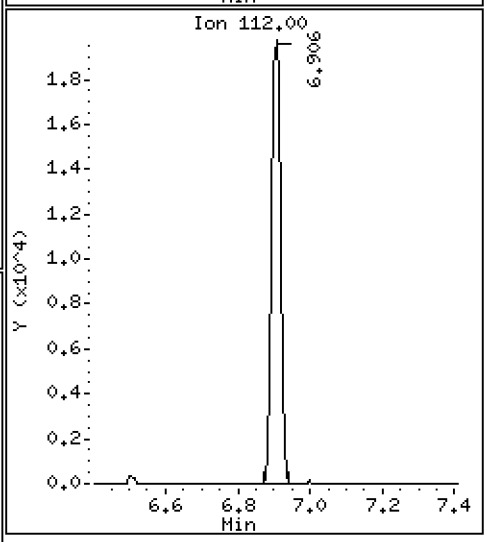
Column phase: DB-VRX Column diameter: 0.25

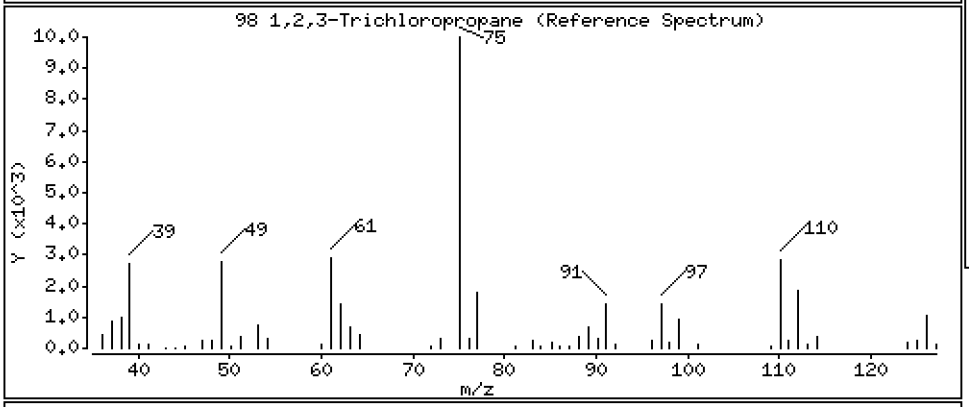
98 1,2,3-Trichloropropane Concentration: 18.6494 ug/L

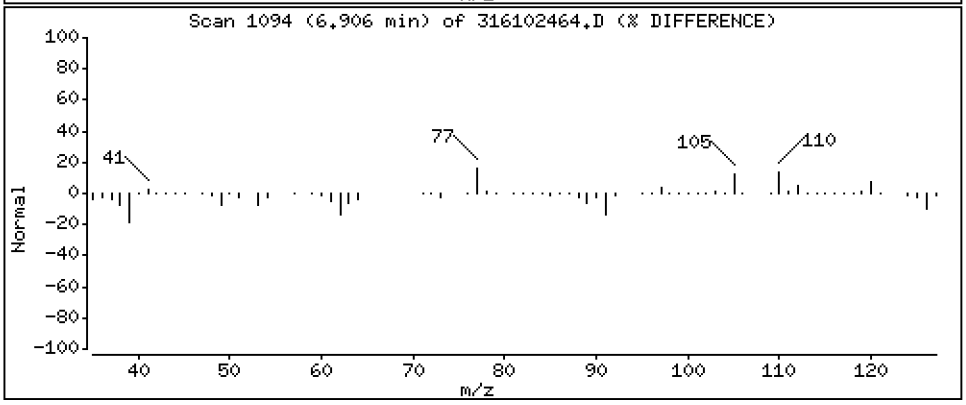












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 105

Date : 25-OCT-2016 03:26

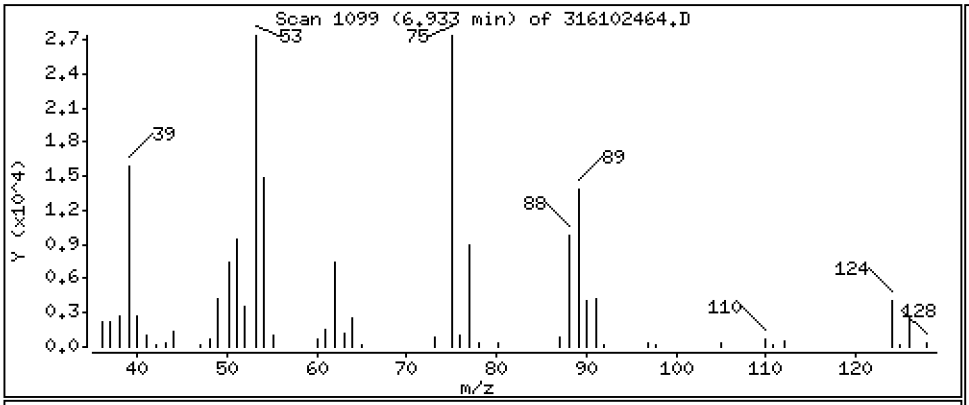
Client ID: LCS for HBN 174041 Instrument: ms03.i

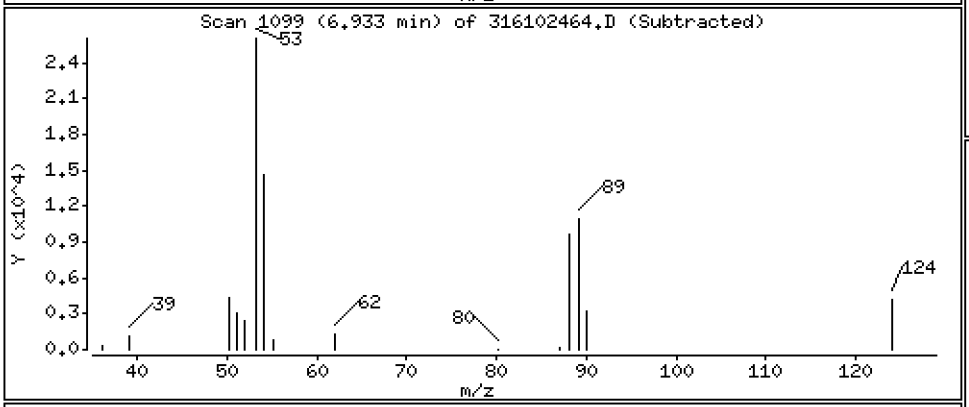
Sample Info: 2428716;;1;3;;LCS;1;

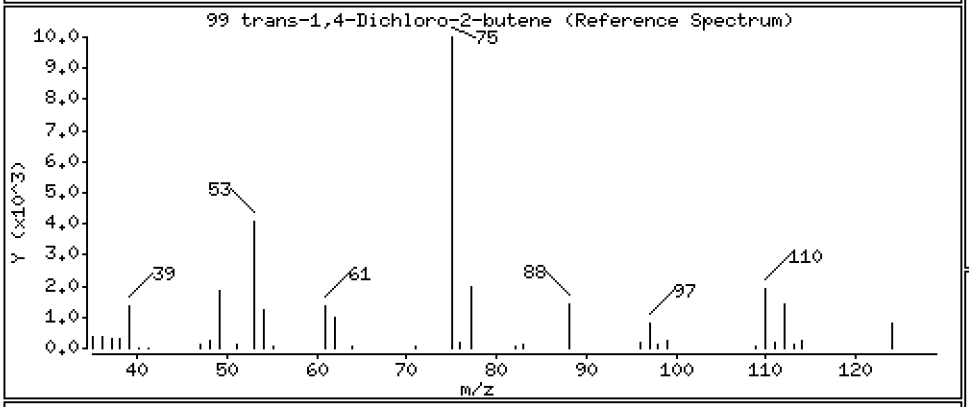
Purge Volume: 5.0 Operator: CJG

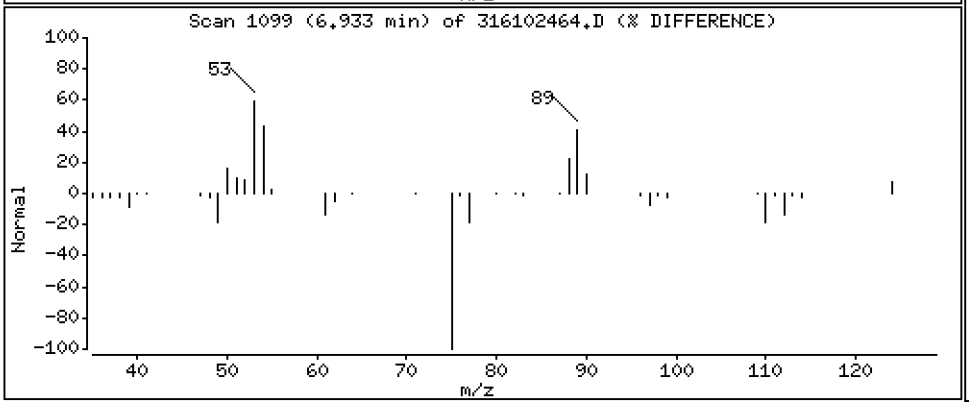
Column phase: DB-VRX Column diameter: 0.25

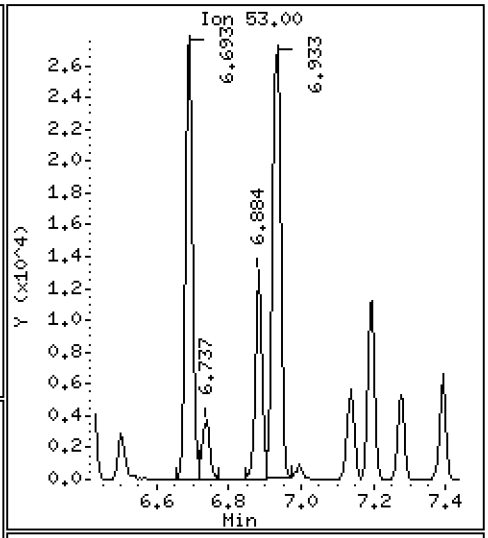
99 trans-1,4-Dichloro-2-butene Concentration: 18.6849 ug/L

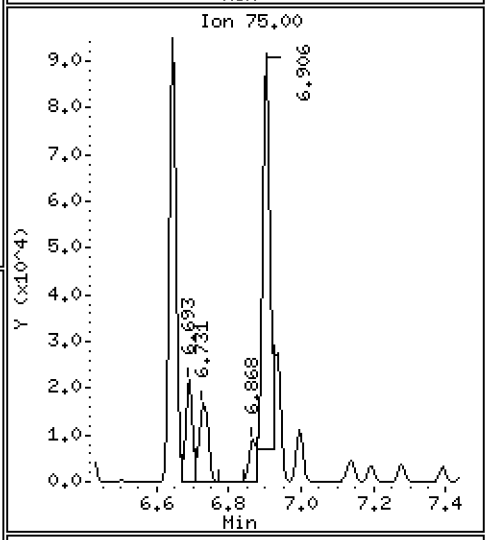


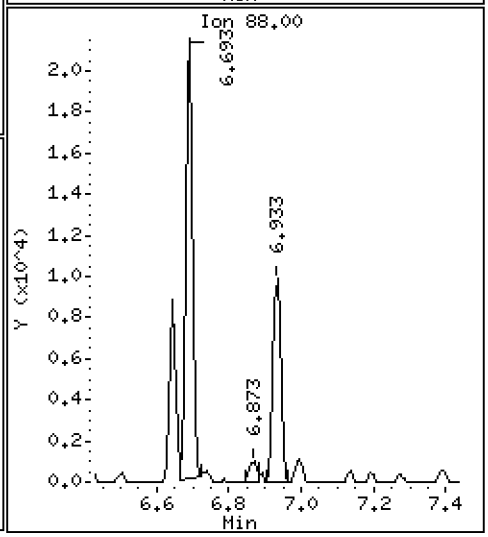












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 106

Date : 25-OCT-2016 03:26

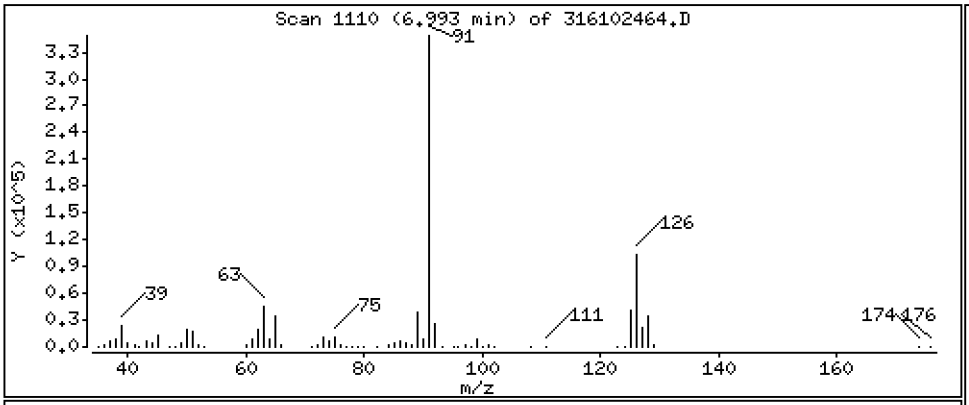
Client ID: LCS for HBN 174041 Instrument: ms03.i

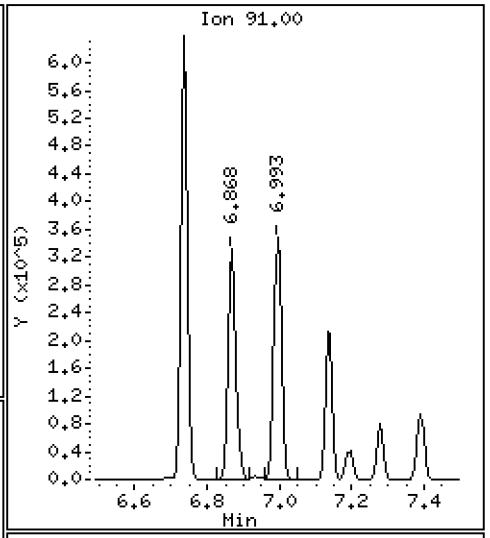
Sample Info: 2428716;;1;3;;LCS;1;

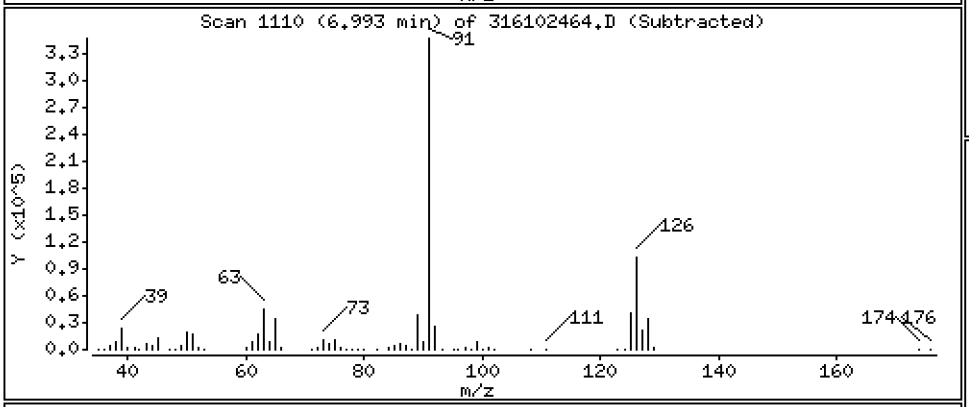
Purge Volume: 5.0 Operator: CJG

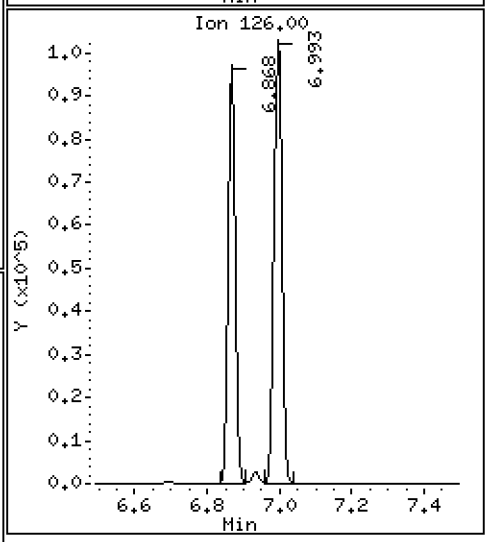
Column phase: DB-VRX Column diameter: 0.25

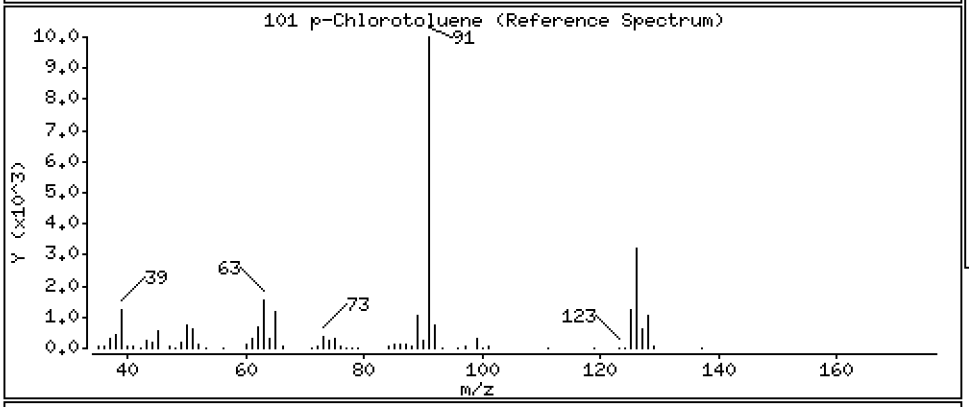
101 p-Chlorotoluene Concentration: 18.8374 ug/L

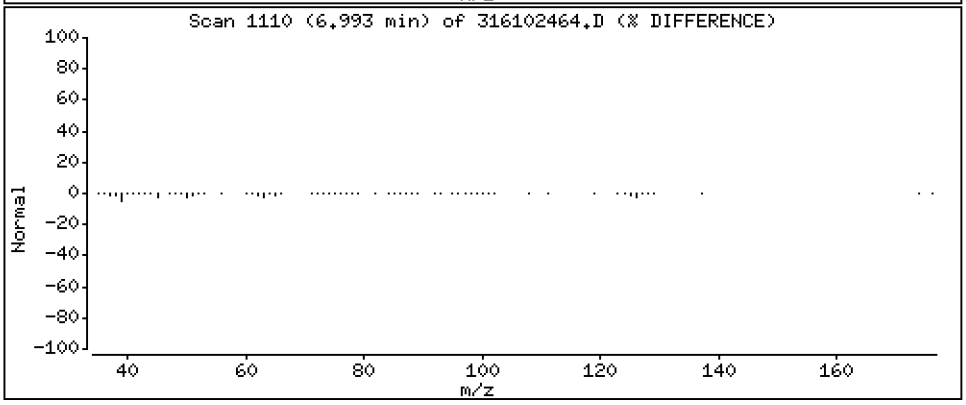












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 107

Date : 25-OCT-2016 03:26

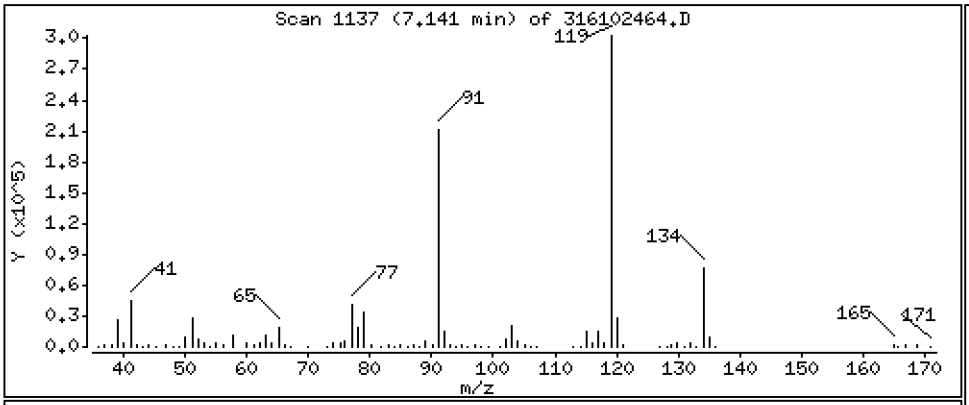
Client ID: LCS for HBN 174041 Instrument: ms03.i

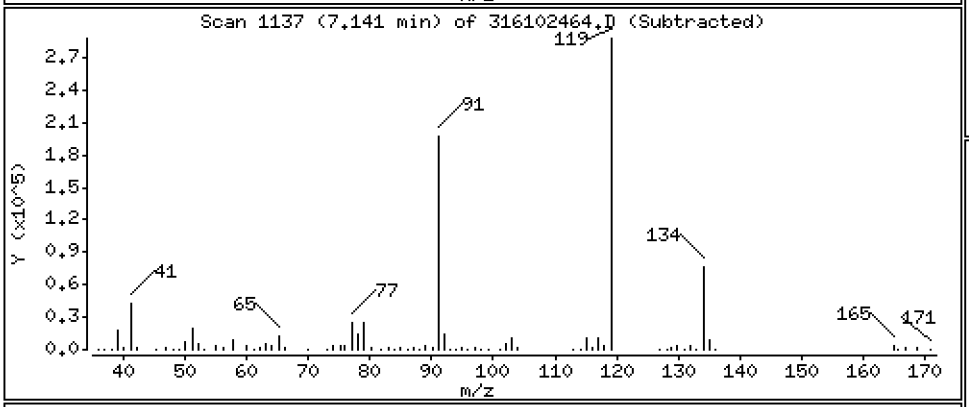
Sample Info: 2428716;;1;3;;LCS;1;

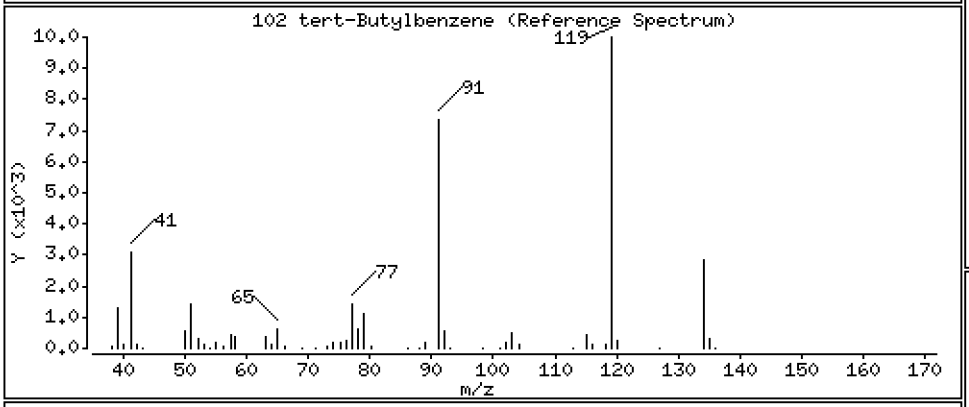
Purge Volume: 5.0 Operator: CJG

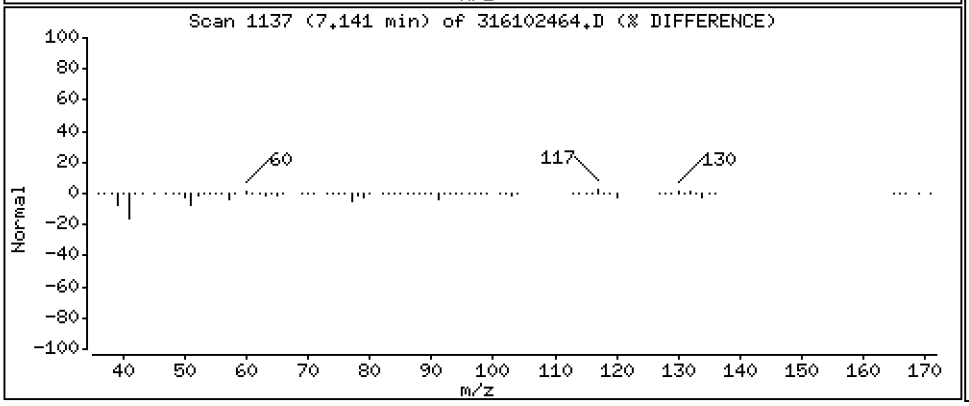
Column phase: DB-VRX Column diameter: 0.25

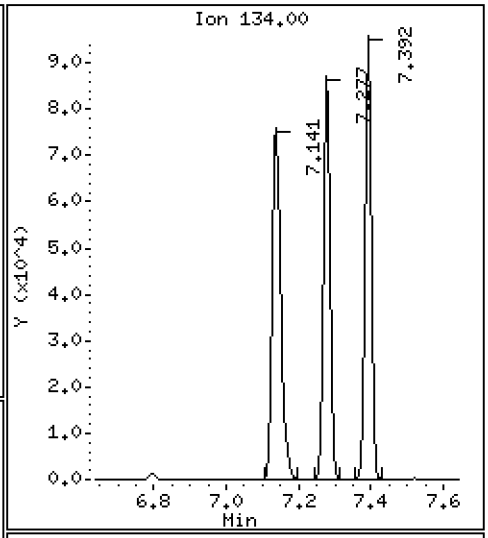
102 tert-Butylbenzene Concentration: 19.4025 ug/L

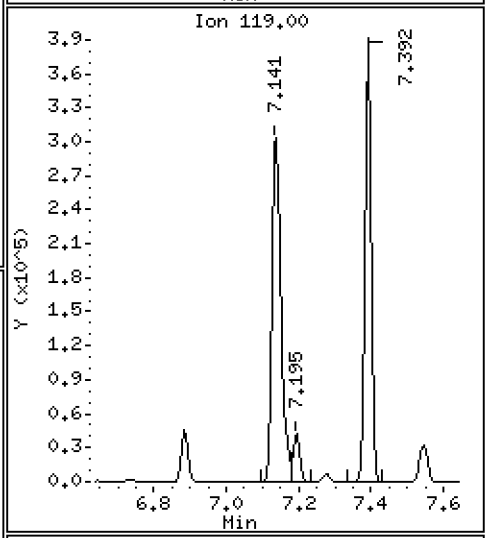


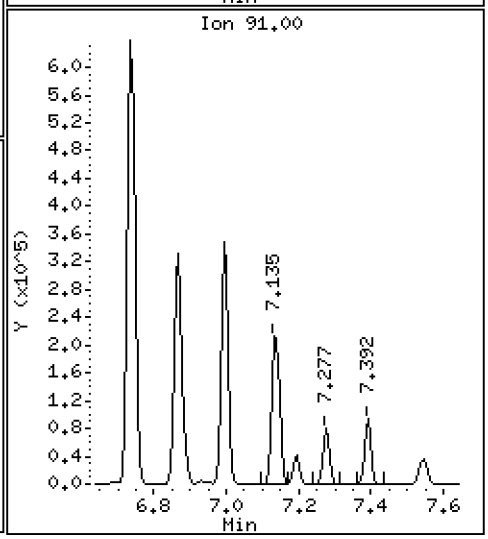












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 108

Date : 25-OCT-2016 03:26

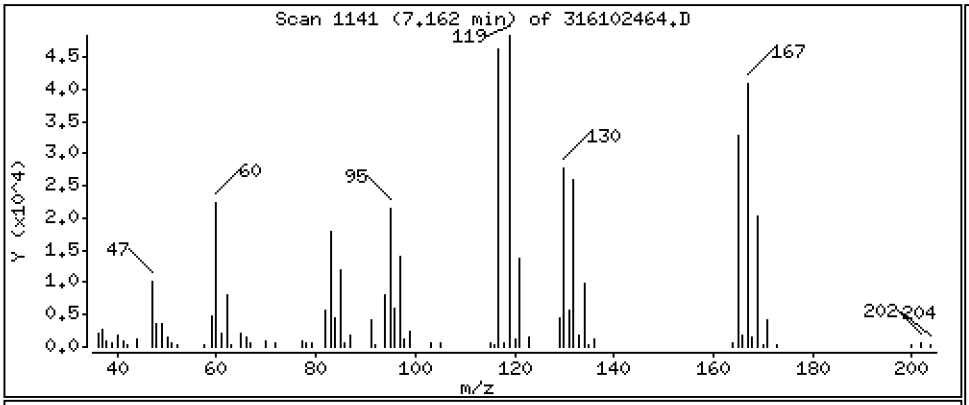
Client ID: LCS for HBN 174041 Instrument: ms03.i

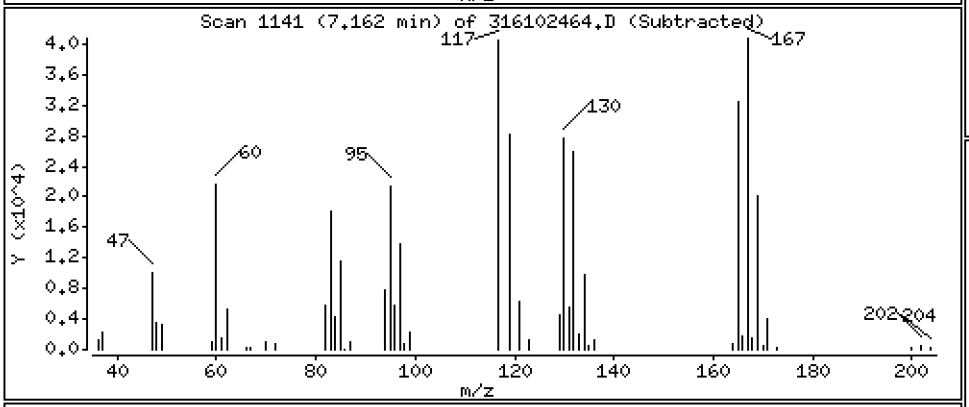
Sample Info: 2428716;;1;3;;LCS;1;

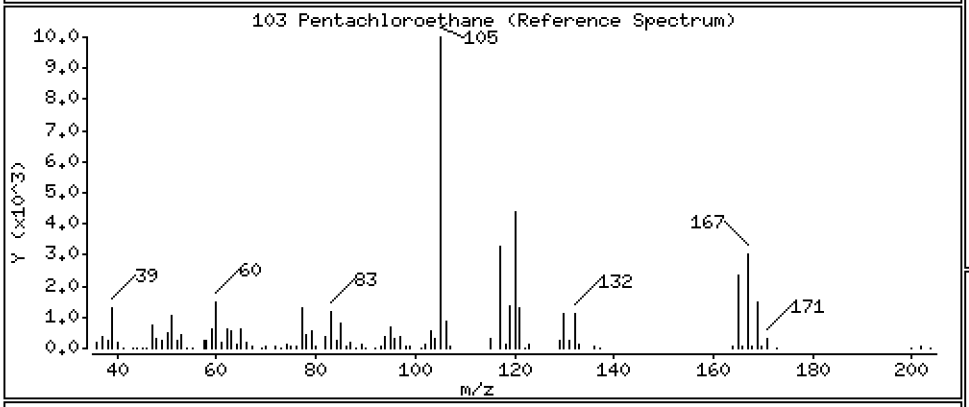
Purge Volume: 5.0 Operator: CJG

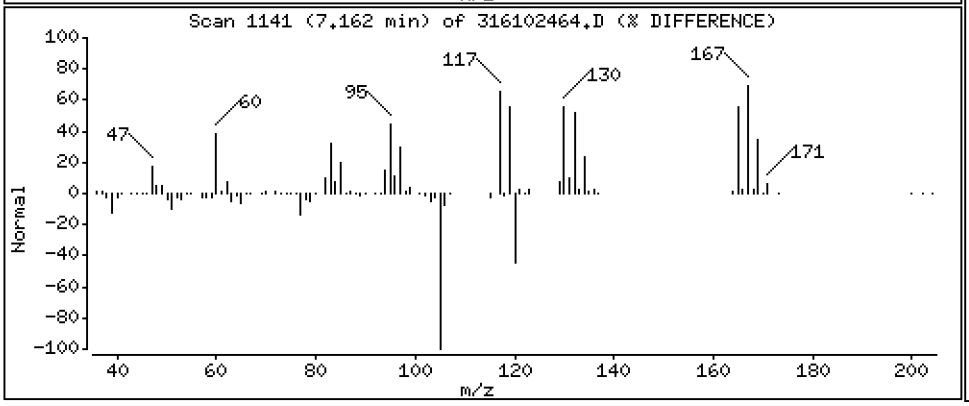
Column phase: DB-VRX Column diameter: 0.25

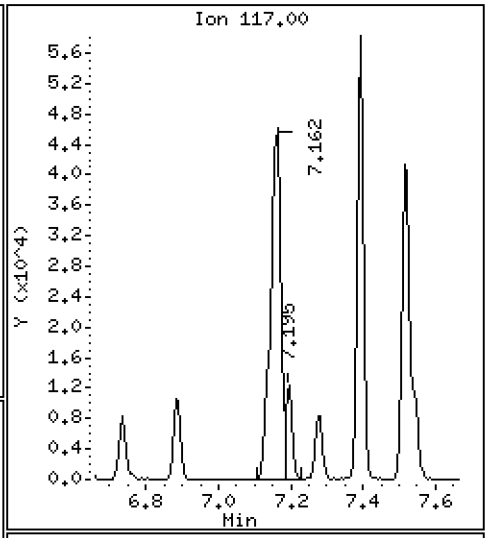
103 Pentachloroethane Concentration: 17.5102 ug/L

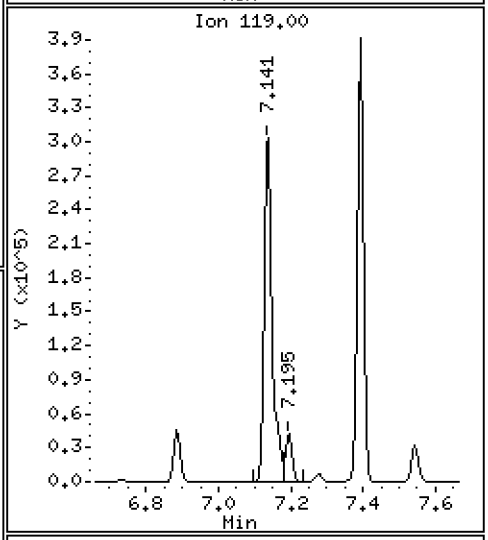


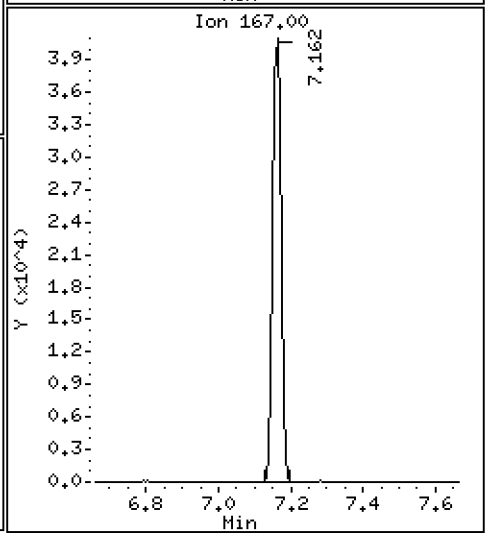












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 109

Date : 25-OCT-2016 03:26

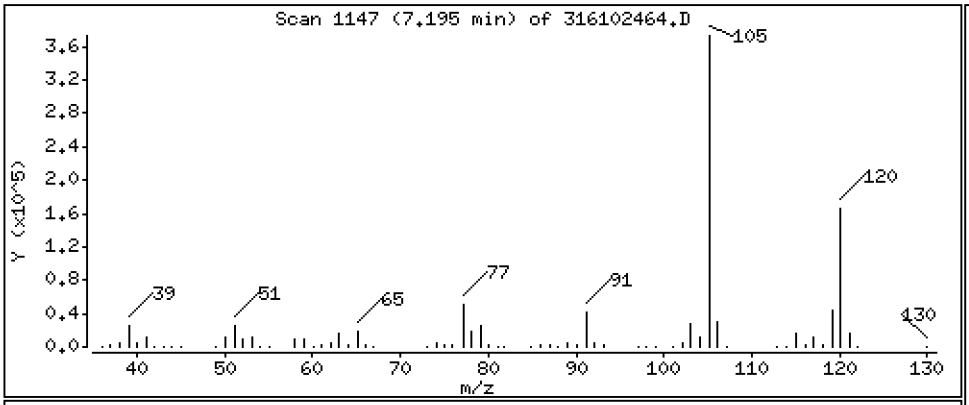
Client ID: LCS for HBN 174041 Instrument: ms03.i

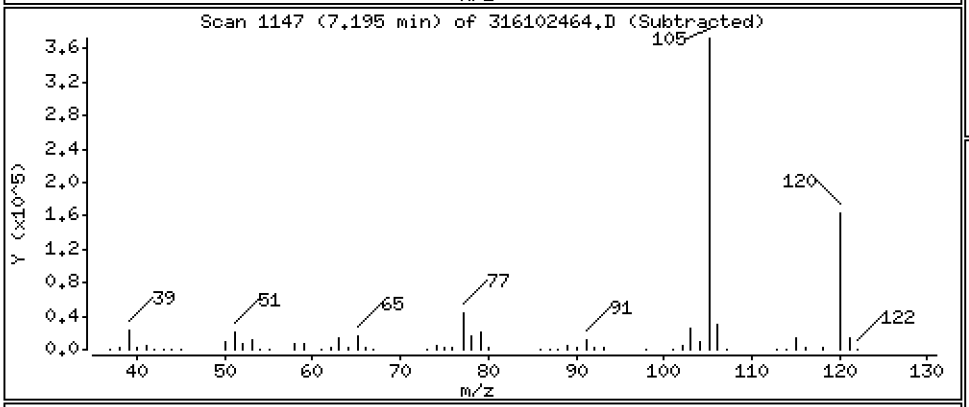
Sample Info: 2428716;;1;3;;LCS;1;

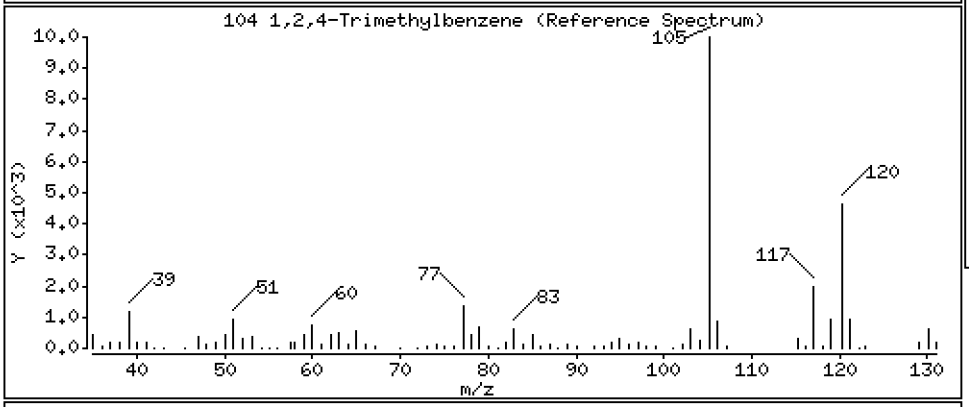
Purge Volume: 5.0 Operator: CJG

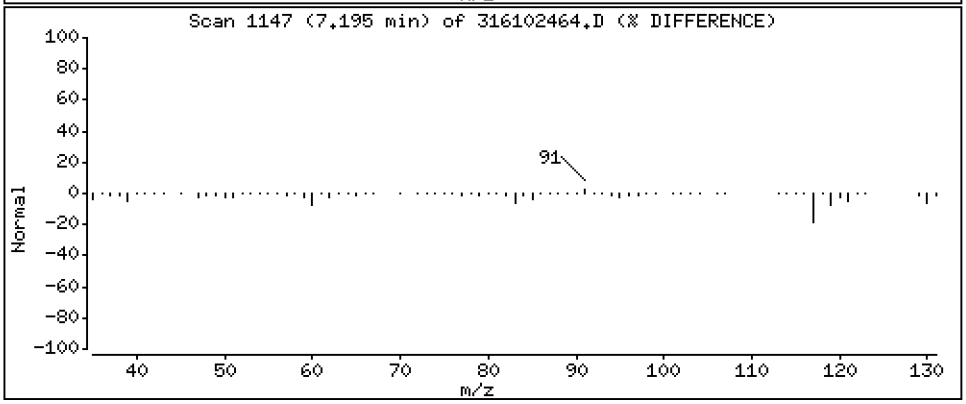
Column phase: DB-VRX Column diameter: 0.25

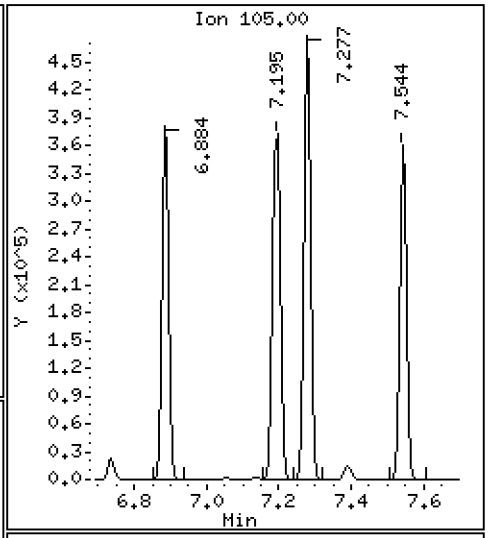
104 1,2,4-Trimethylbenzene Concentration: 19.8974 ug/L

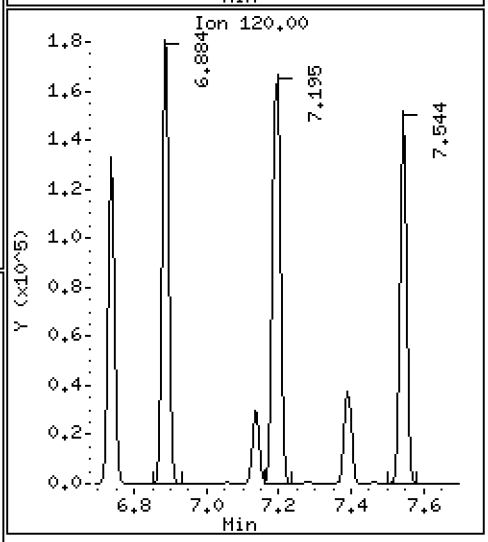












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 110

Date : 25-OCT-2016 03:26

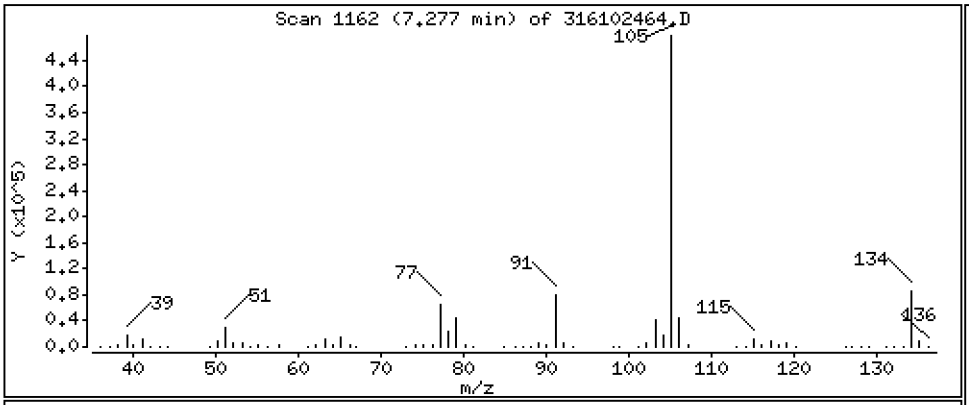
Client ID: LCS for HBN 174041 Instrument: ms03.i

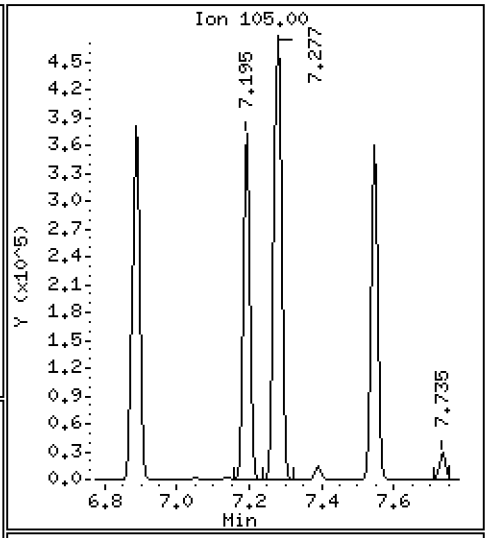
Sample Info: 2428716;;1;3;;LCS;1;

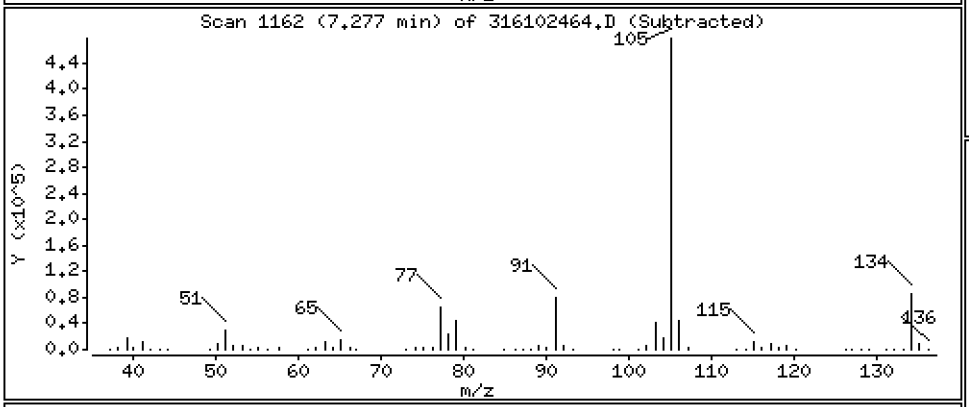
Purge Volume: 5.0 Operator: CJG

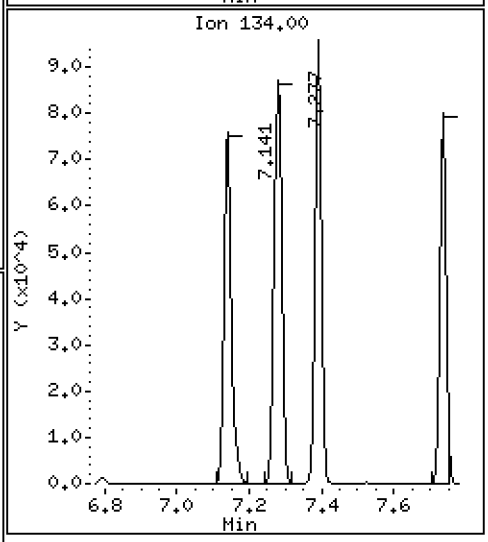
Column phase: DB-VRX Column diameter: 0.25

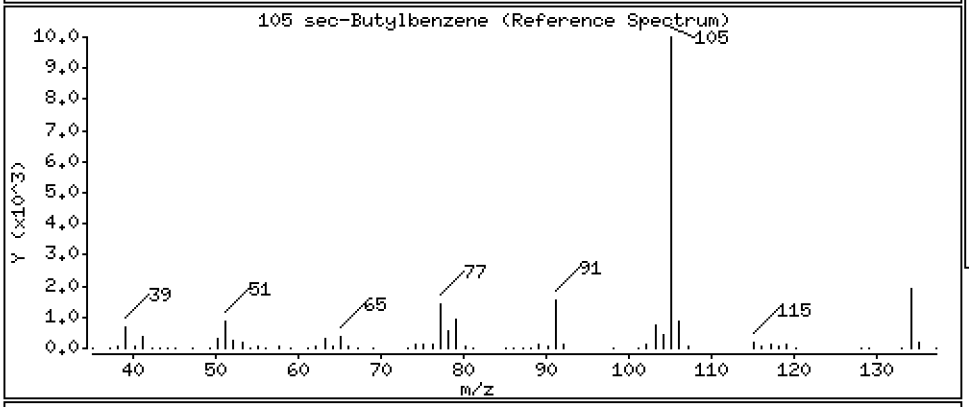
105 sec-Butylbenzene Concentration: 19.8641 ug/L

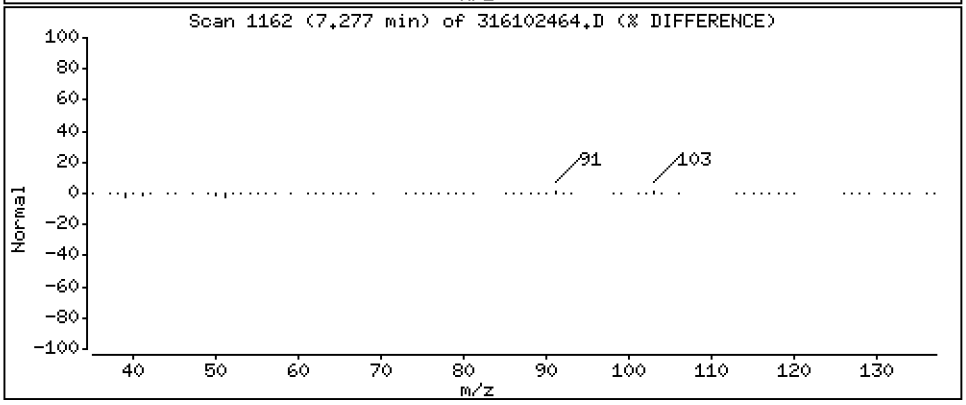












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 111

Date : 25-OCT-2016 03:26

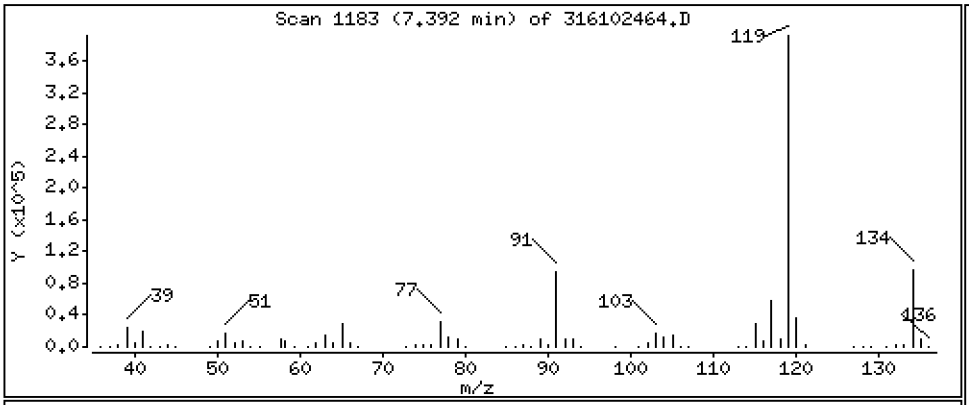
Client ID: LCS for HBN 174041 Instrument: ms03.i

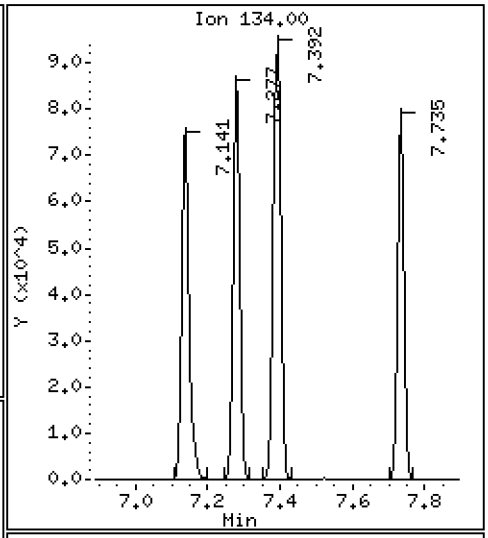
Sample Info: 2428716;;1;3;;LCS;1;

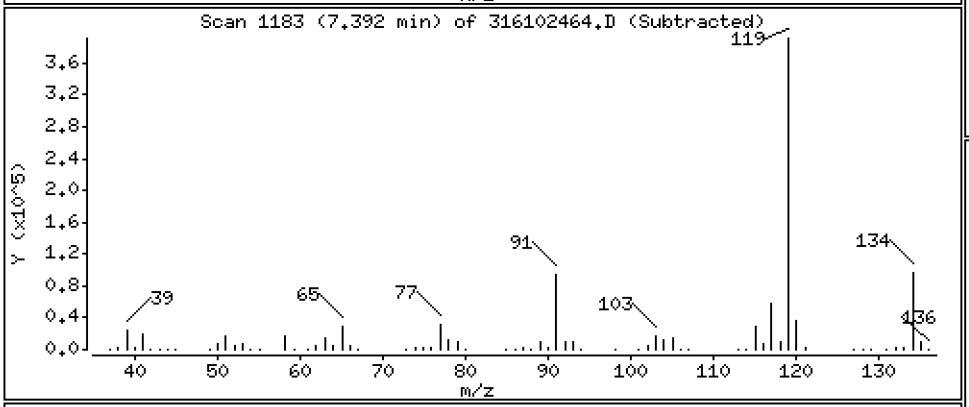
Purge Volume: 5.0 Operator: CJG

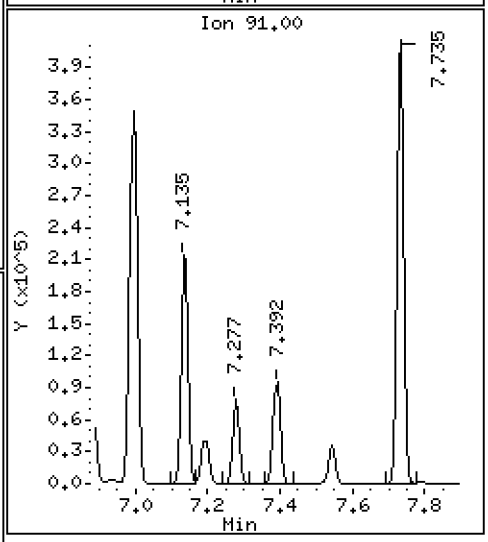
Column phase: DB-VRX Column diameter: 0.25

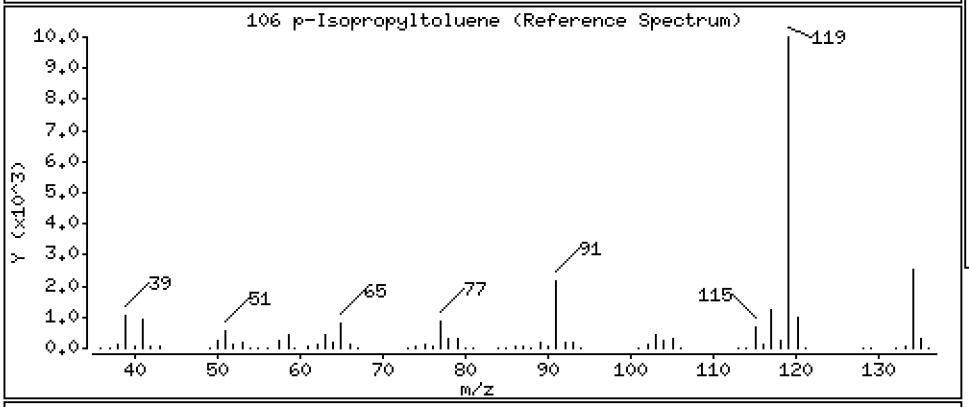
106 p-Isopropyltoluene Concentration: 20.0183 ug/L

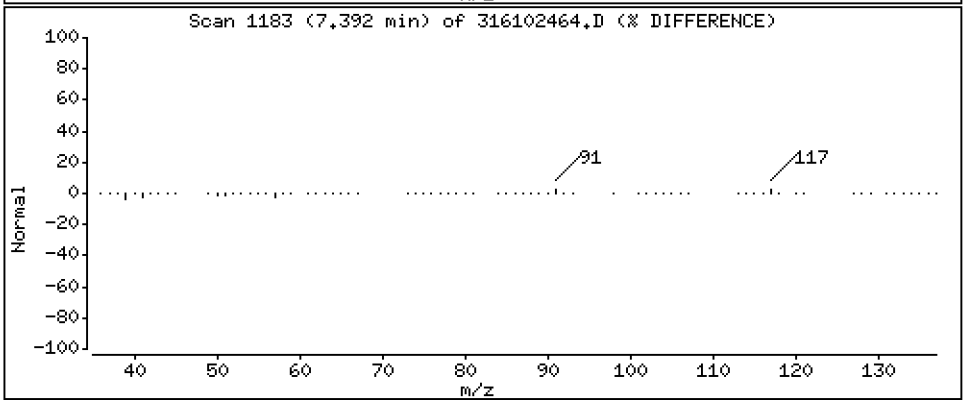












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 112

Date : 25-OCT-2016 03:26

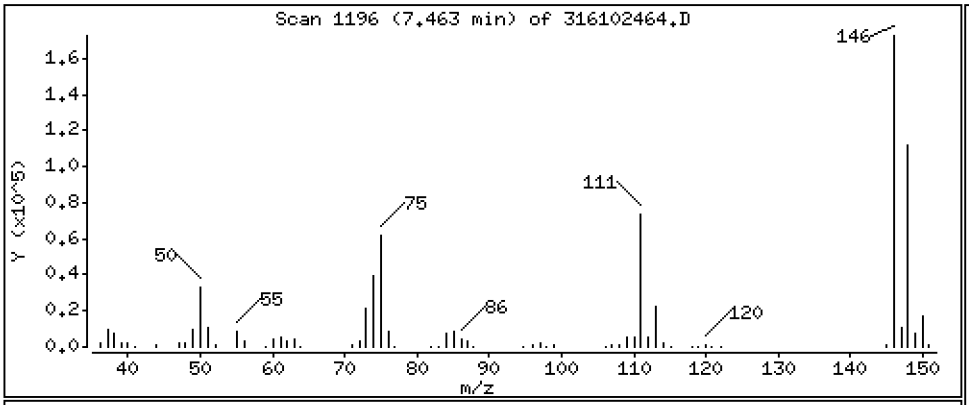
Client ID: LCS for HBN 174041 Instrument: ms03.i

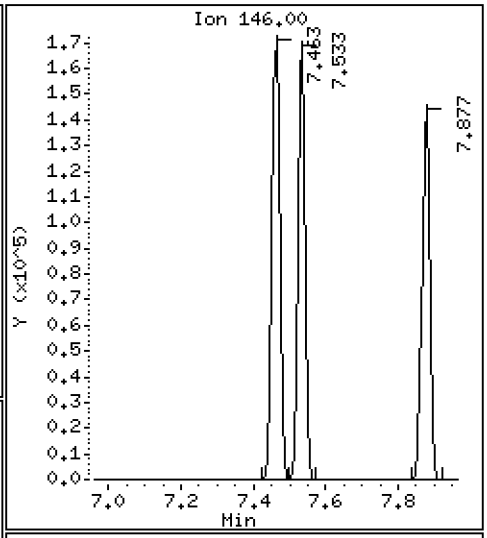
Sample Info: 2428716;;1;3;;LCS;1;

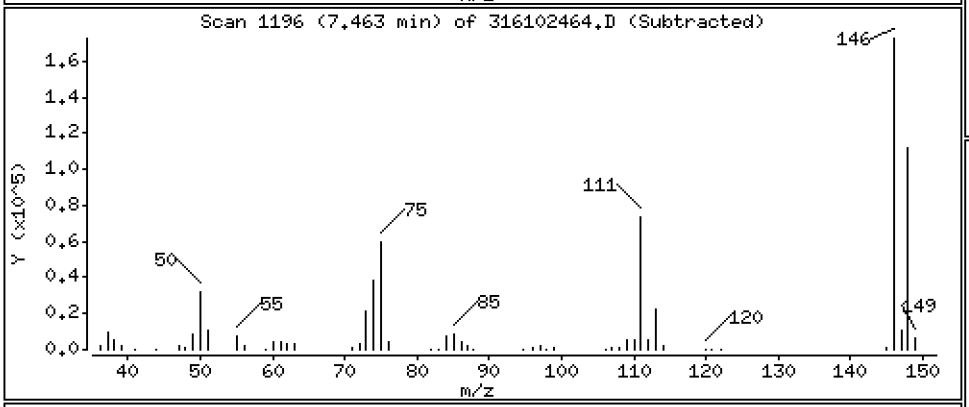
Purge Volume: 5.0 Operator: CJG

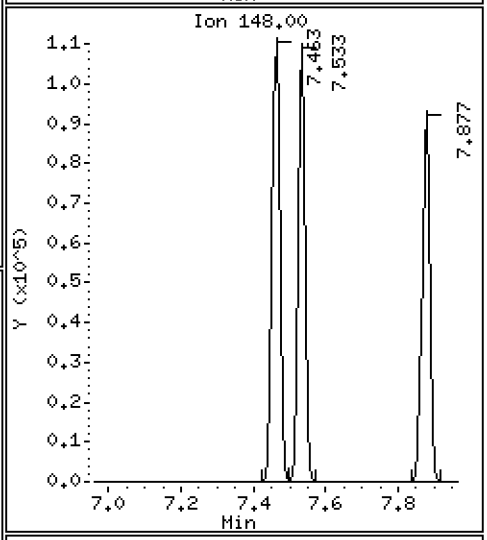
Column phase: DB-VRX Column diameter: 0.25

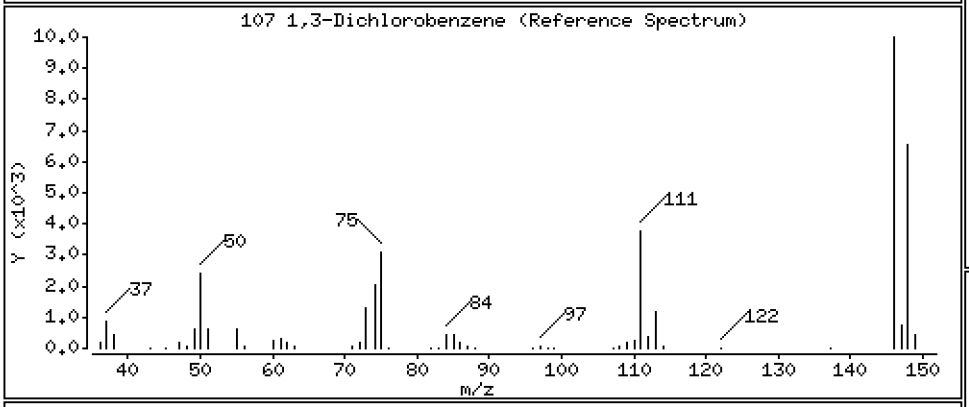
107 1,3-Dichlorobenzene Concentration: 19.5897 ug/L

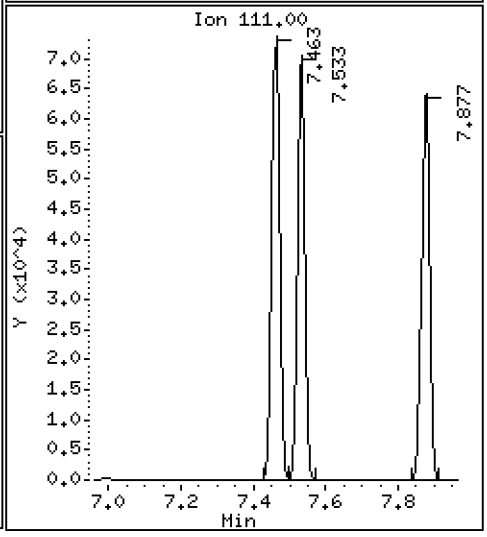


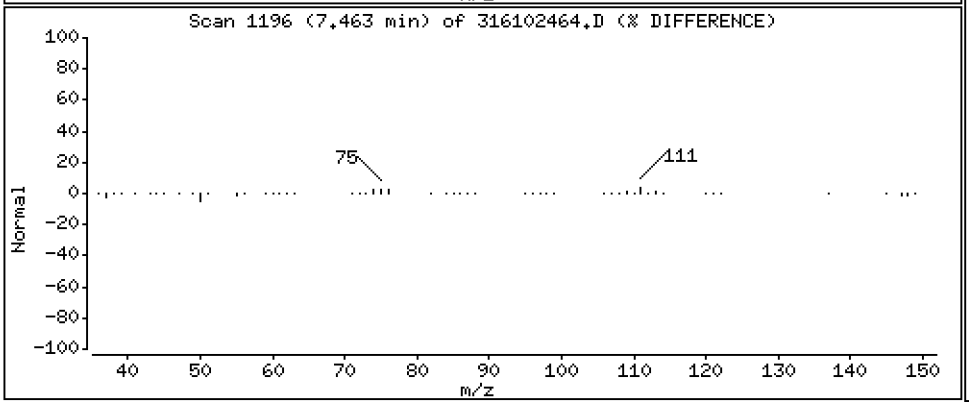












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 113

Date : 25-OCT-2016 03:26

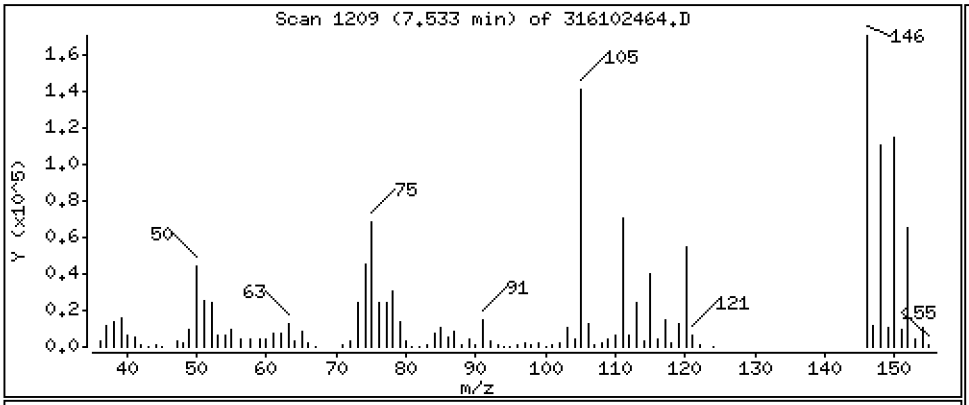
Client ID: LCS for HBN 174041 Instrument: ms03.i

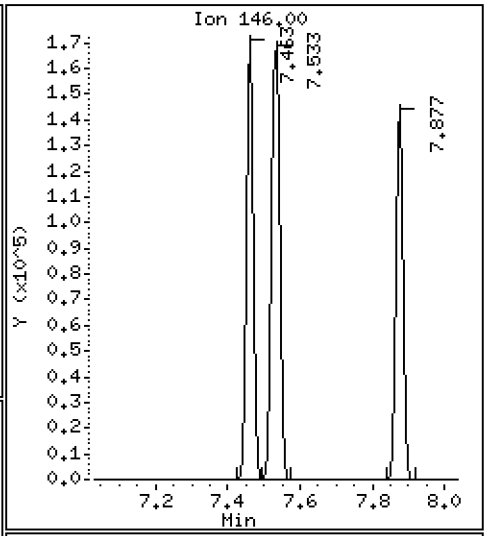
Sample Info: 2428716;;1;3;;LCS;1;

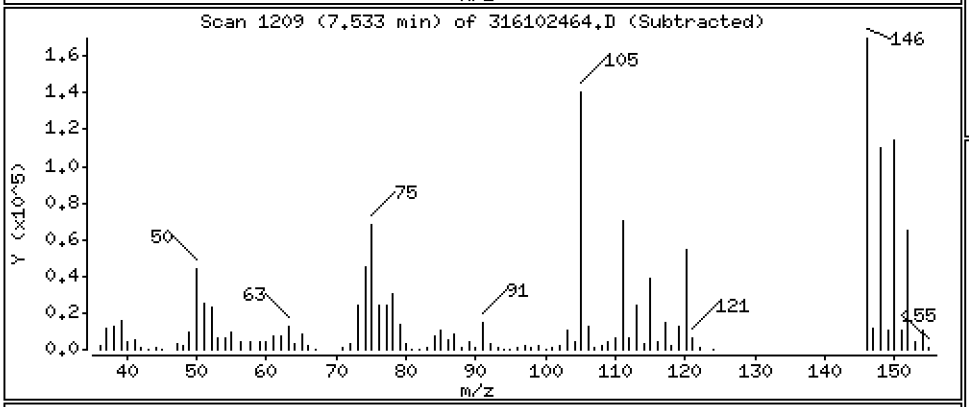
Purge Volume: 5.0 Operator: CJG

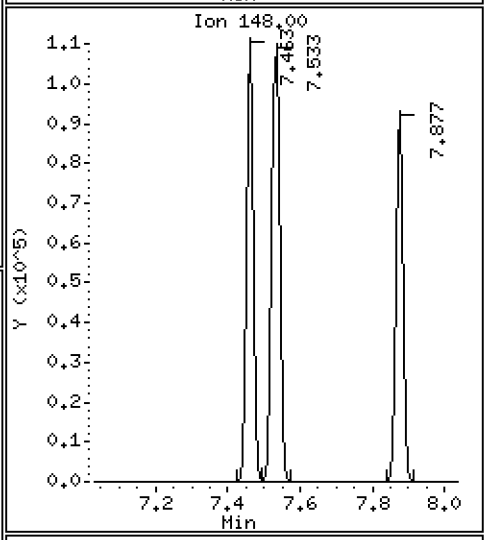
Column phase: DB-VRX Column diameter: 0.25

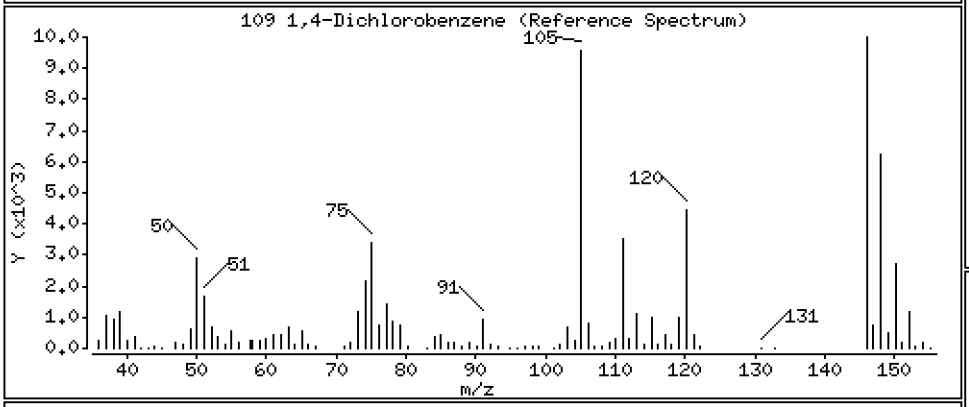
109 1,4-Dichlorobenzene Concentration: 19.8014 ug/L

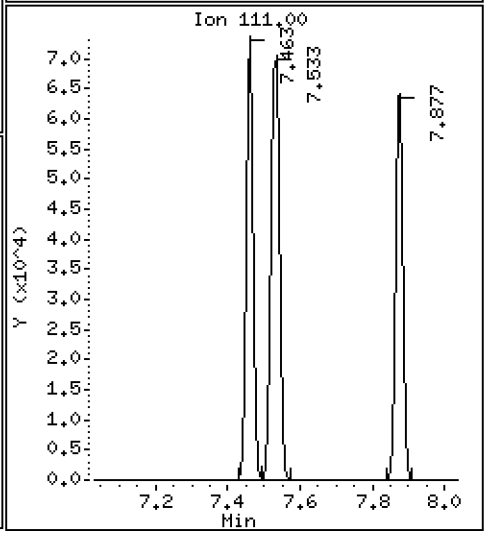


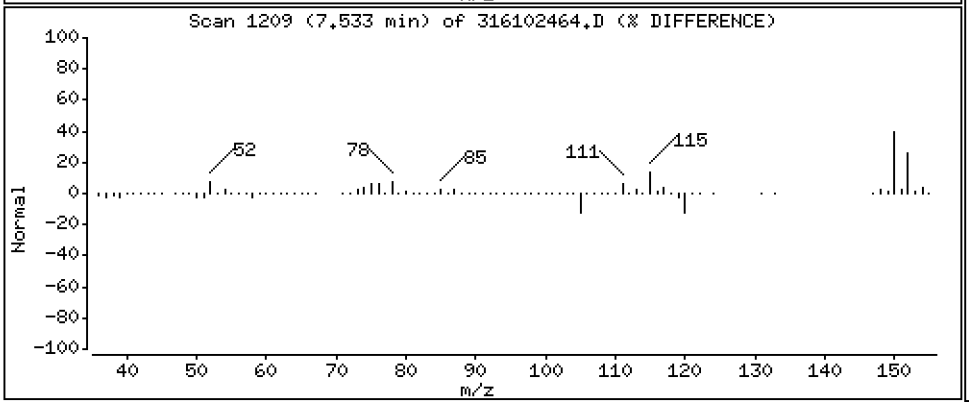












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 114

Date : 25-OCT-2016 03:26

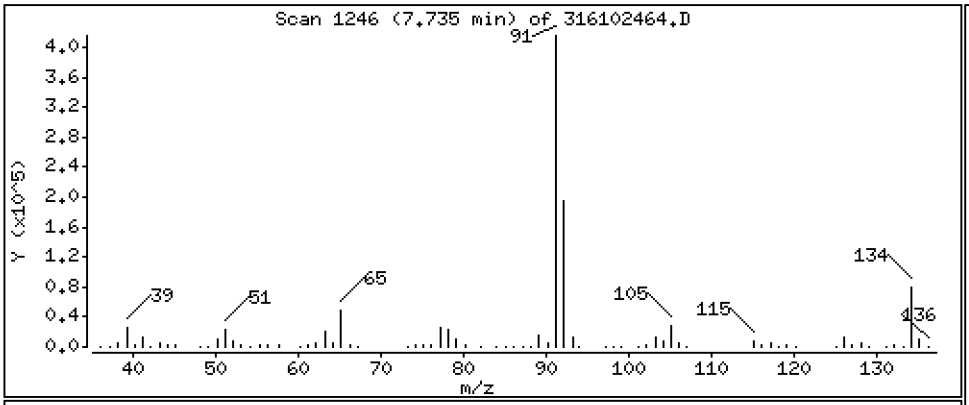
Client ID: LCS for HBN 174041 Instrument: ms03.i

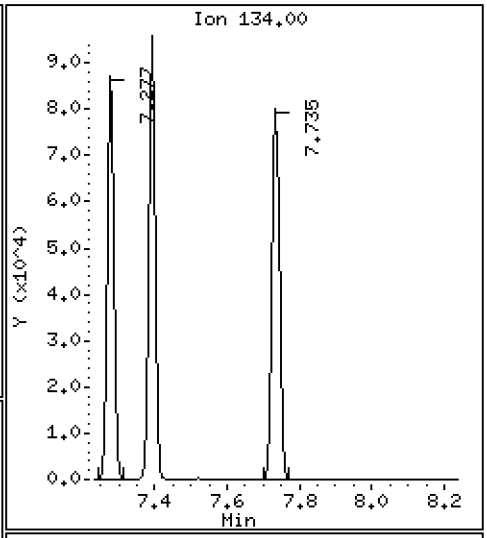
Sample Info: 2428716;;1;3;;LCS;1;

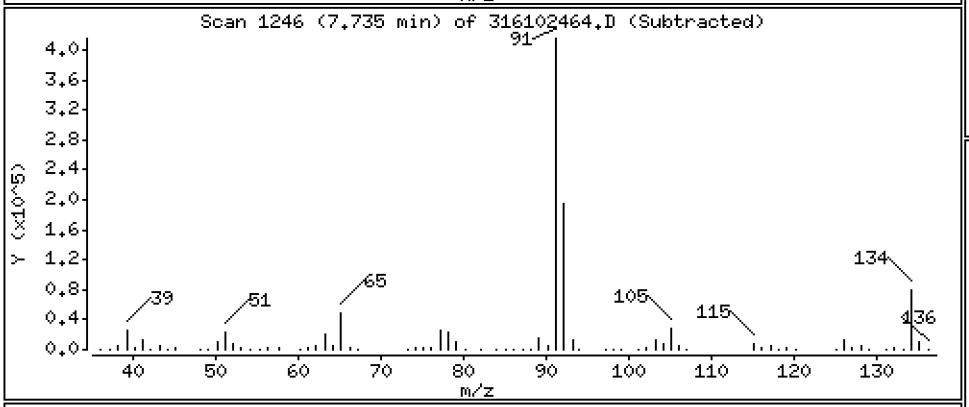
Purge Volume: 5.0 Operator: CJG

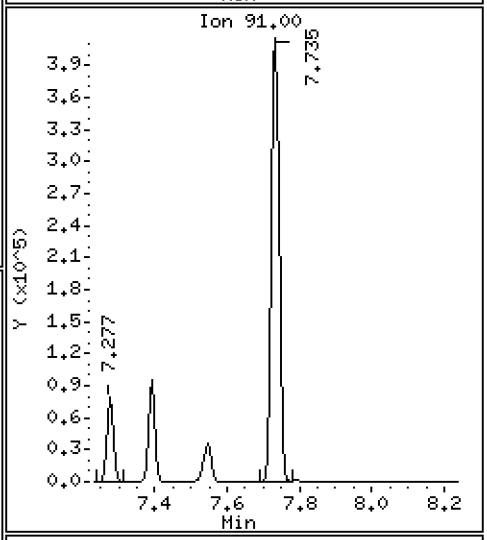
Column phase: DB-VRX Column diameter: 0.25

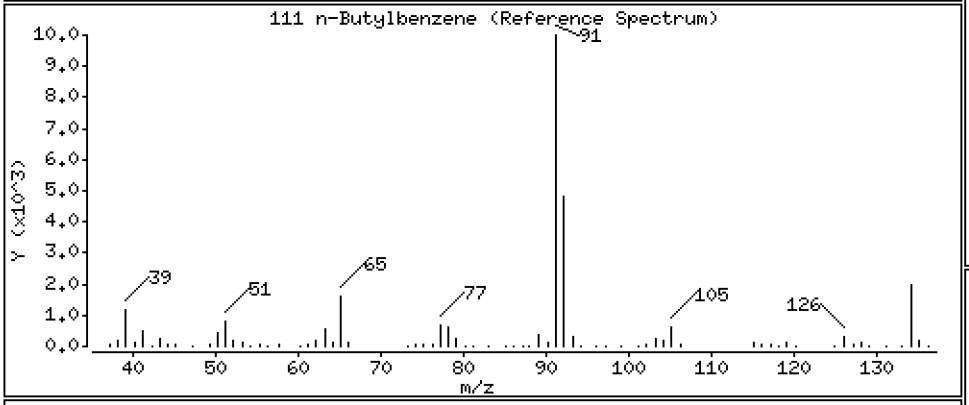
111 n-Butylbenzene Concentration: 18.8019 ug/L

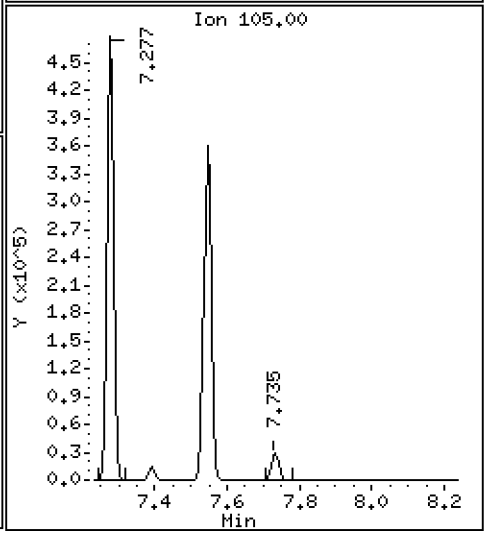


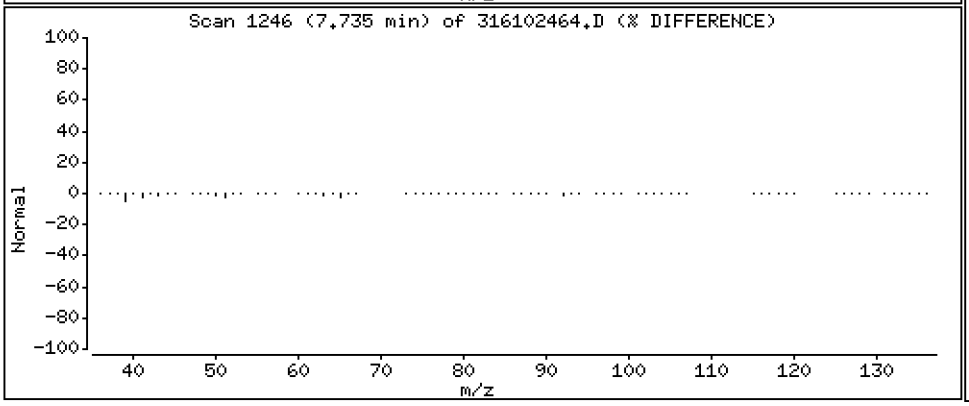












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 115

Date : 25-OCT-2016 03:26

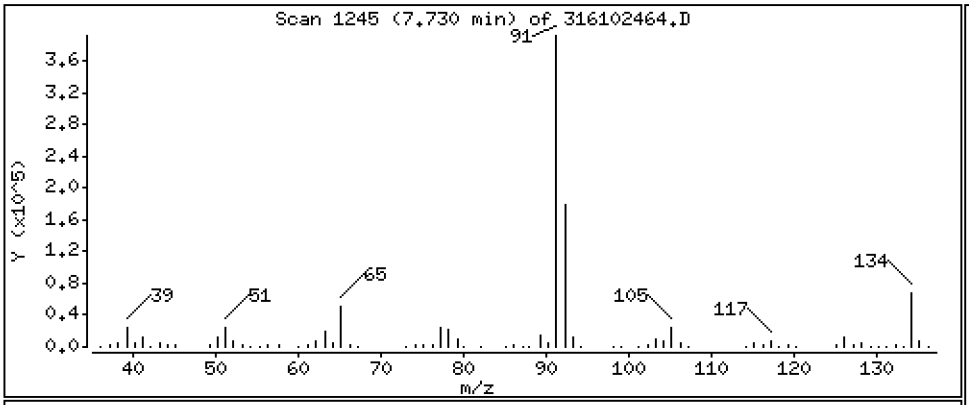
Client ID: LCS for HBN 174041 Instrument: ms03.i

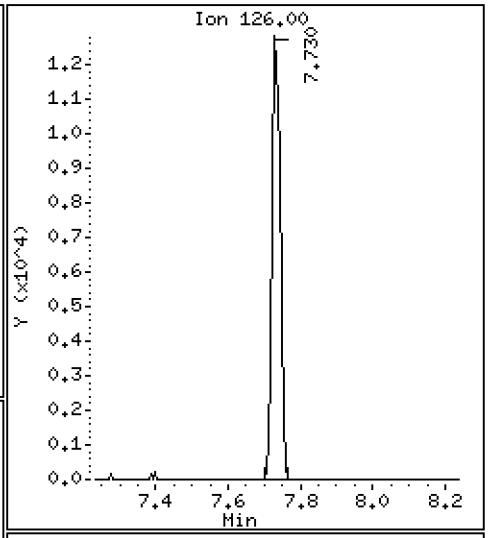
Sample Info: 2428716;;1;3;;LCS;1;

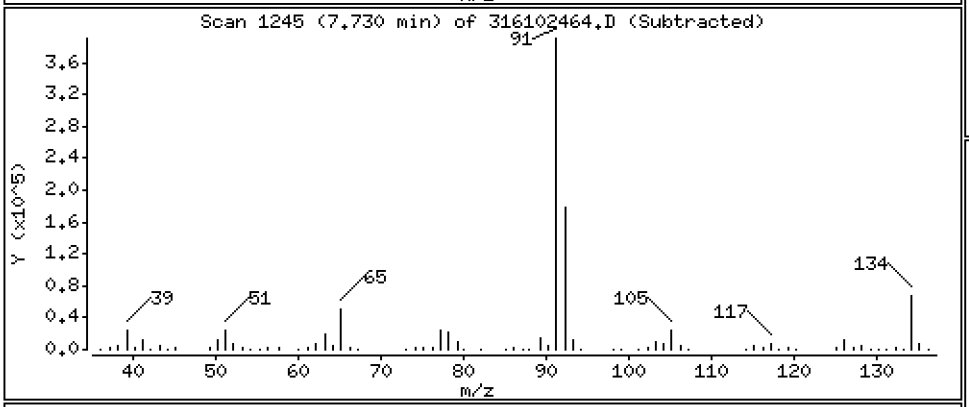
Purge Volume: 5.0 Operator: CJG

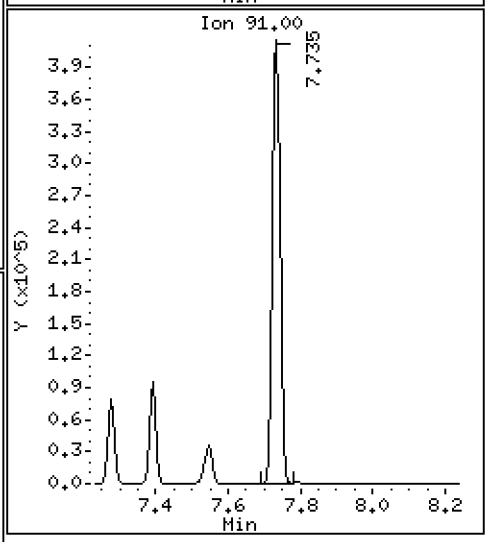
Column phase: DB-VRX Column diameter: 0.25

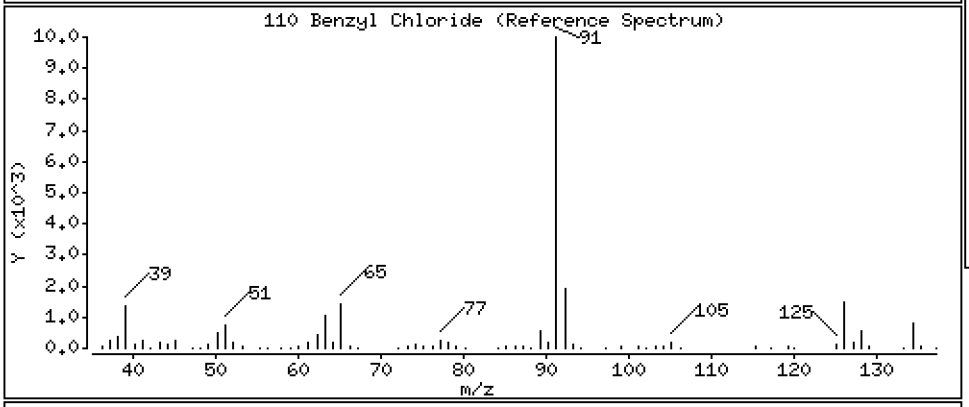
110 Benzyl Chloride Concentration: 12.0019 ug/L

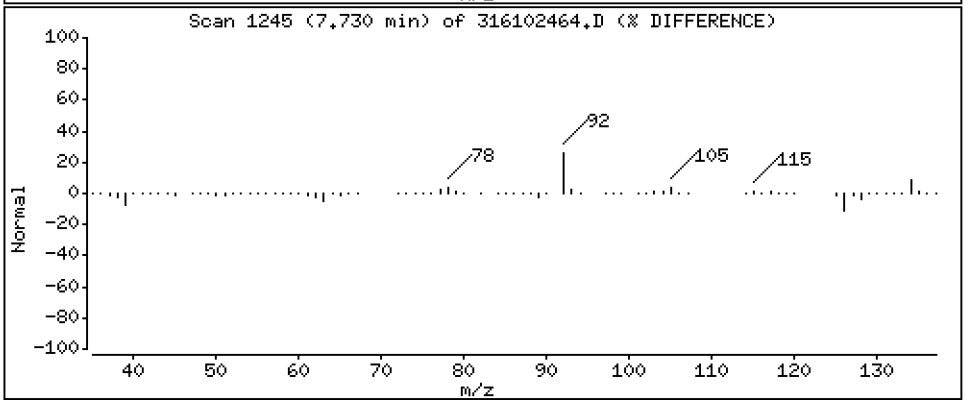












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 116

Date : 25-OCT-2016 03:26

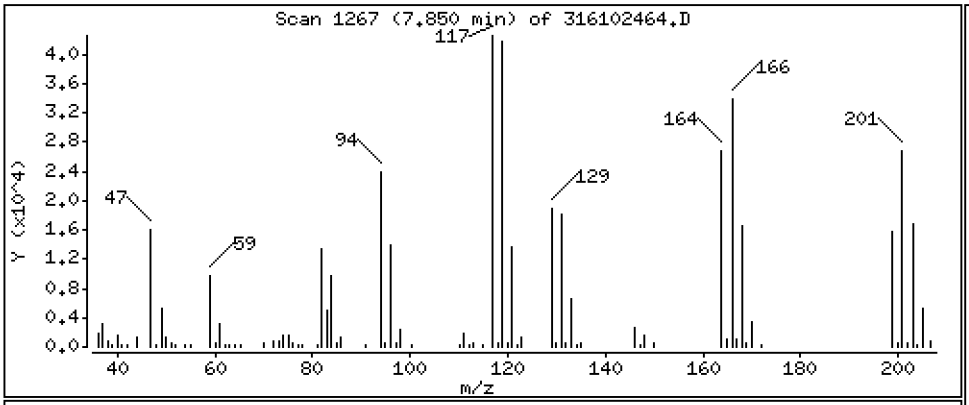
Client ID: LCS for HBN 174041 Instrument: ms03.i

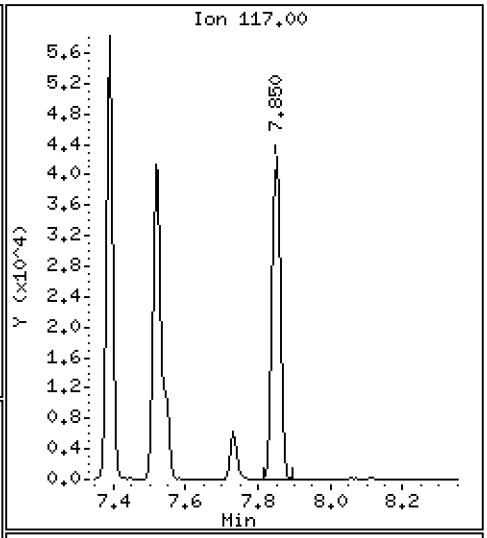
Sample Info: 2428716;;1;3;;LCS;1;

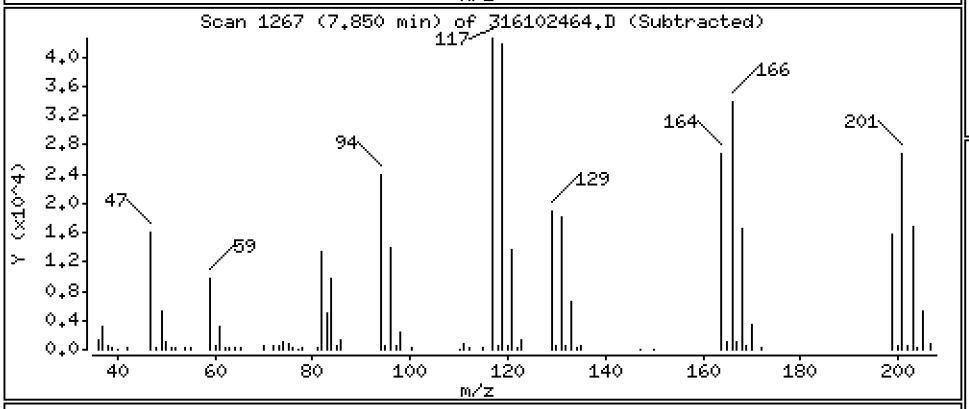
Purge Volume: 5.0 Operator: CJG

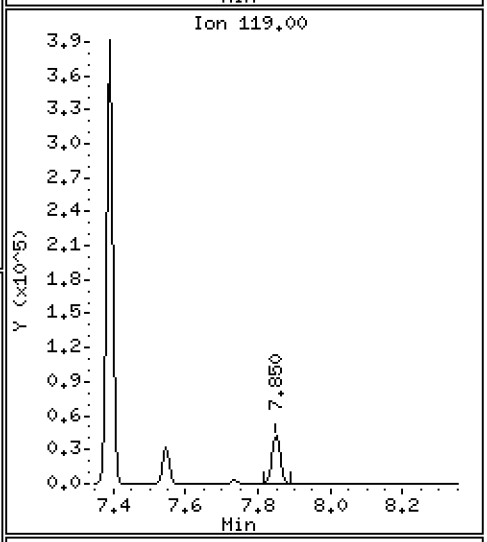
Column phase: DB-VRX Column diameter: 0.25

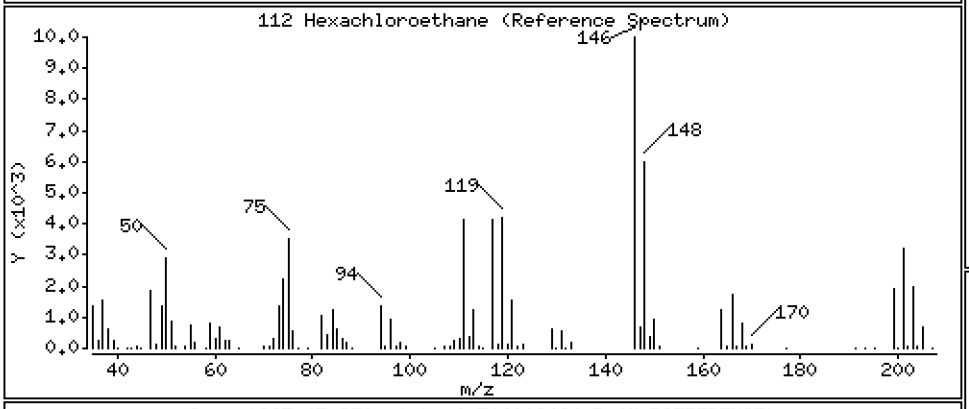
112 Hexachloroethane Concentration: 16.4021 ug/L

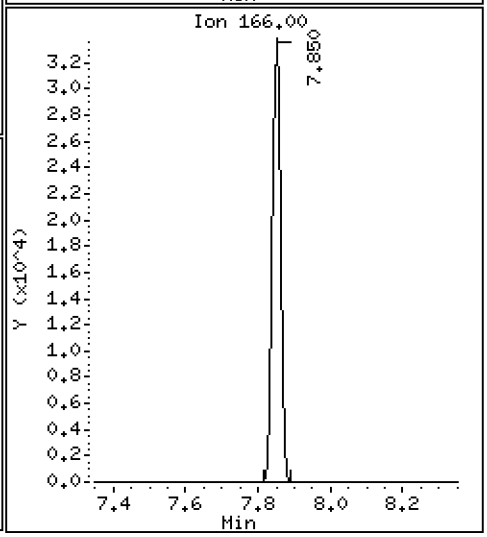


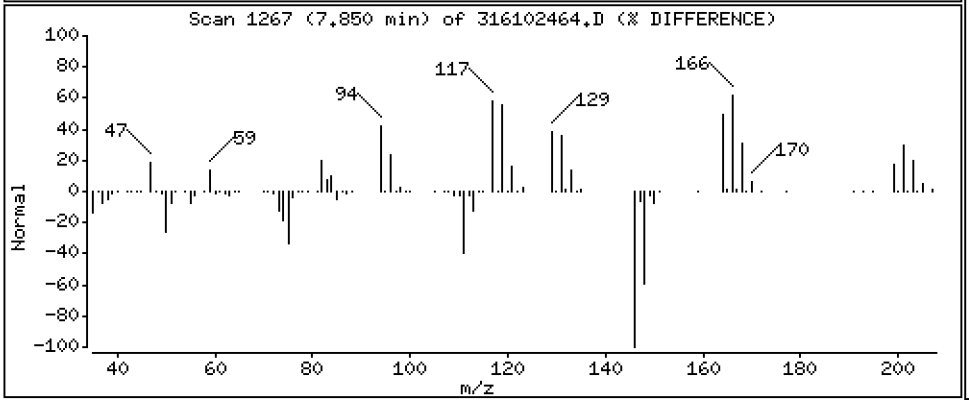












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 117

Date : 25-OCT-2016 03:26

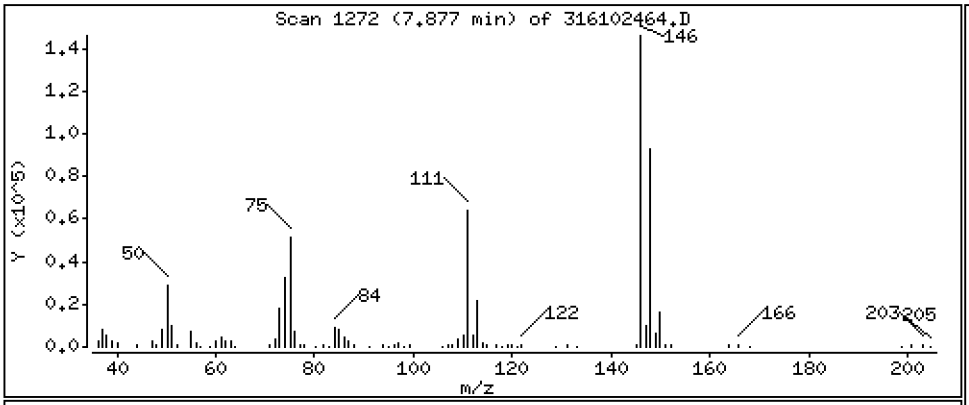
Client ID: LCS for HBN 174041 Instrument: ms03.i

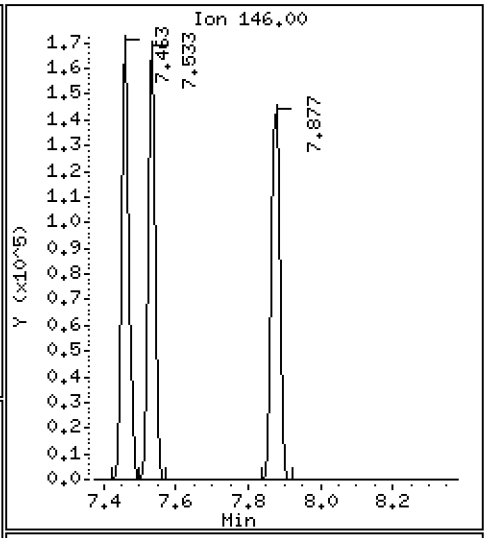
Sample Info: 2428716;;1;3;;LCS;1;

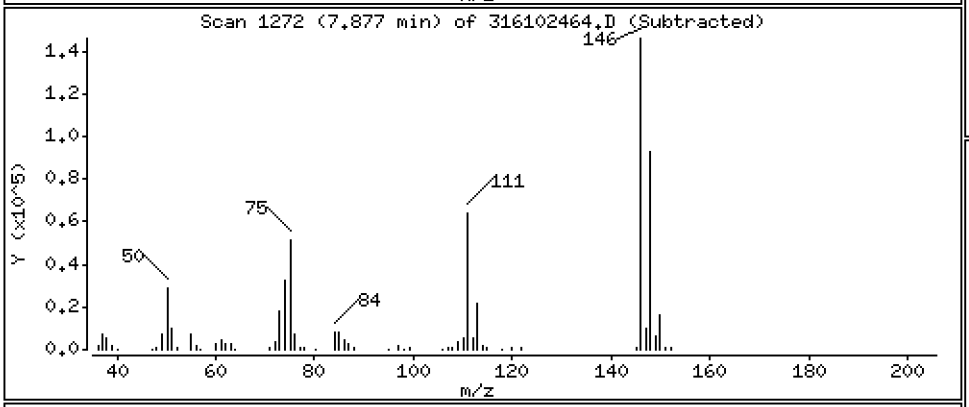
Purge Volume: 5.0 Operator: CJG

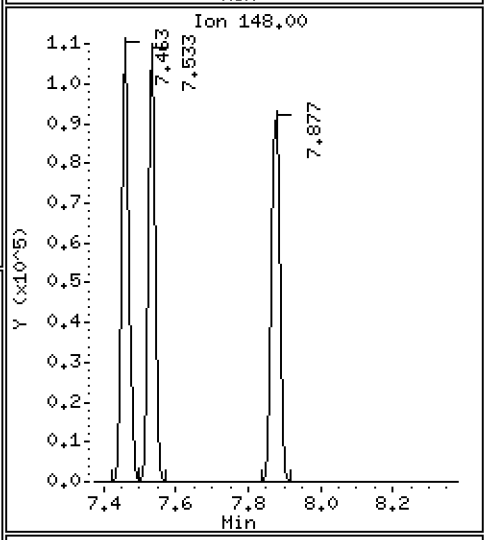
Column phase: DB-VRX Column diameter: 0.25

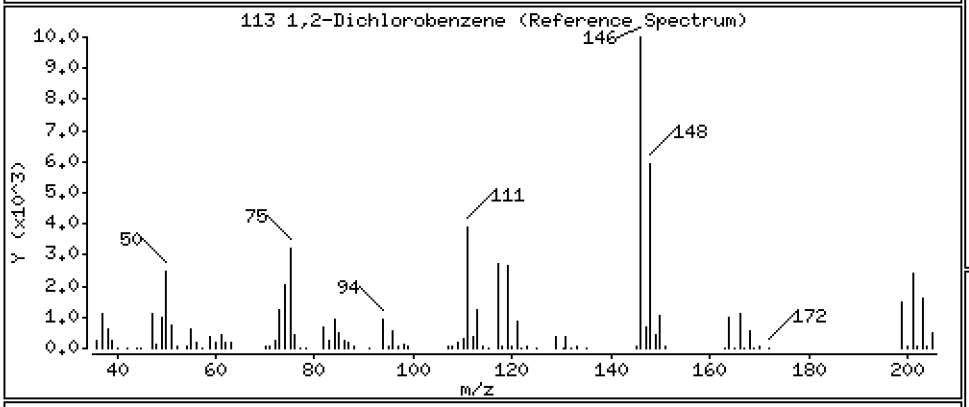
113 1,2-Dichlorobenzene Concentration: 19.4038 ug/L

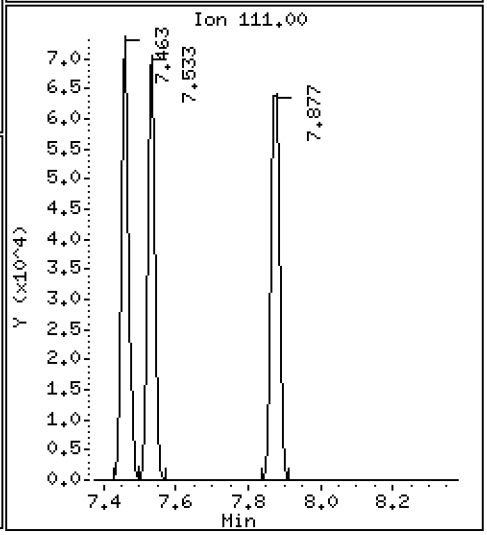


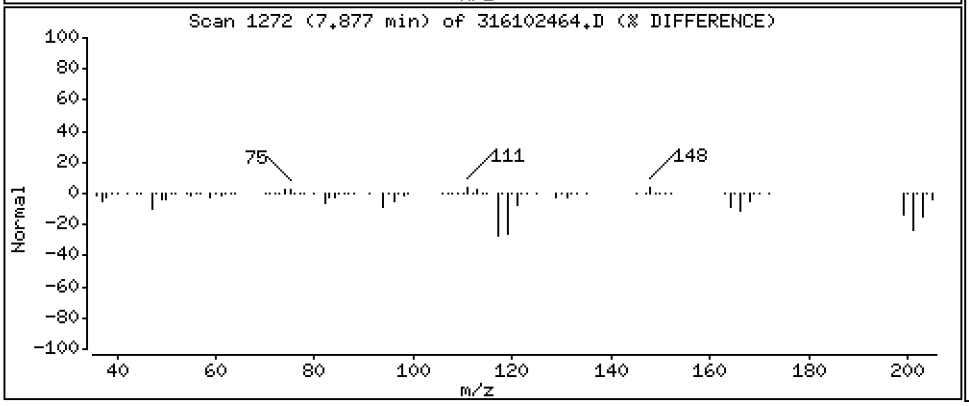












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 118

Date : 25-OCT-2016 03:26

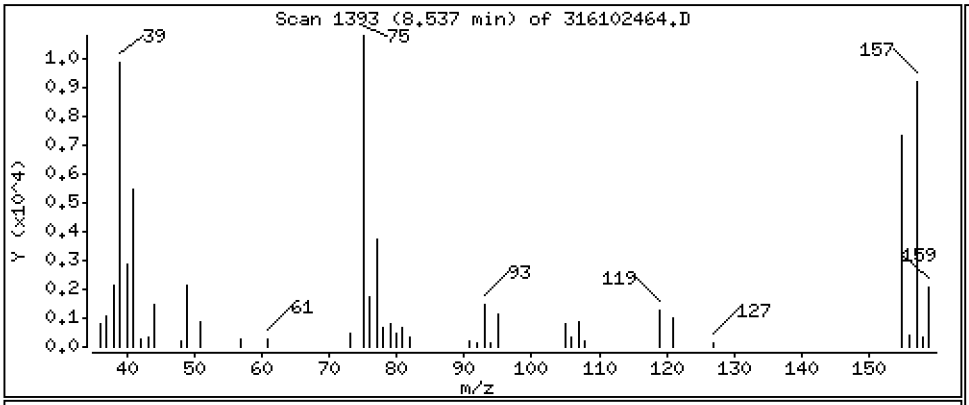
Client ID: LCS for HBN 174041 Instrument: ms03.i

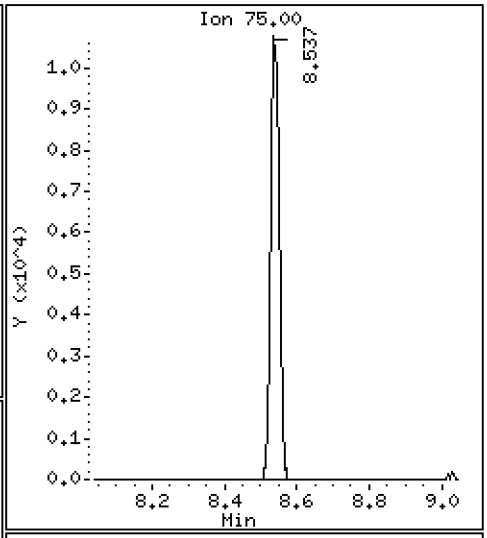
Sample Info: 2428716;;1;3;;LCS;1;

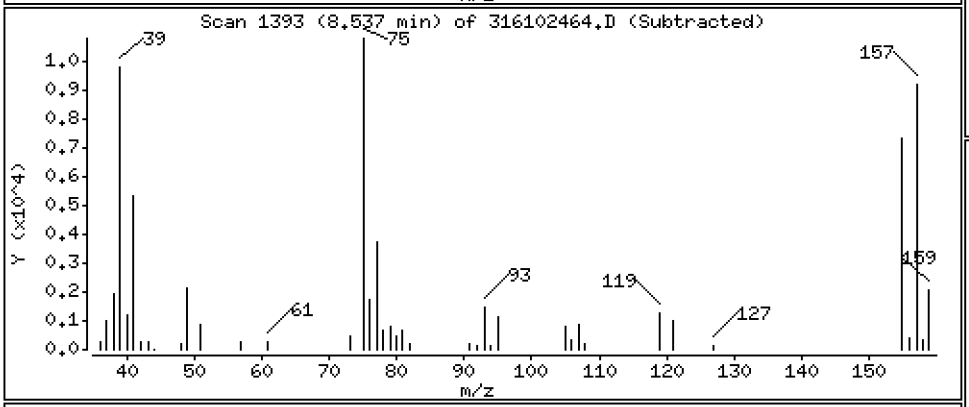
Purge Volume: 5.0 Operator: CJG

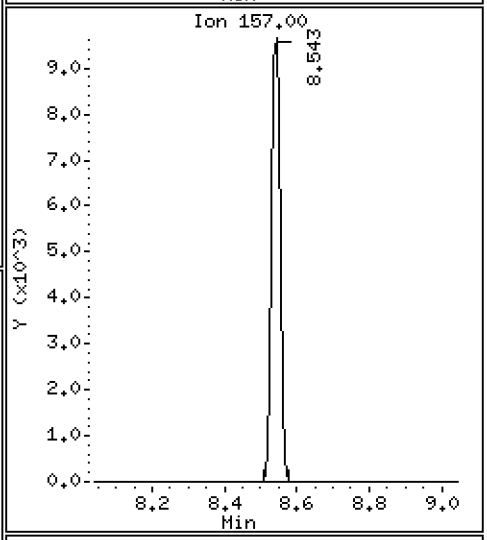
Column phase: DB-VRX Column diameter: 0.25

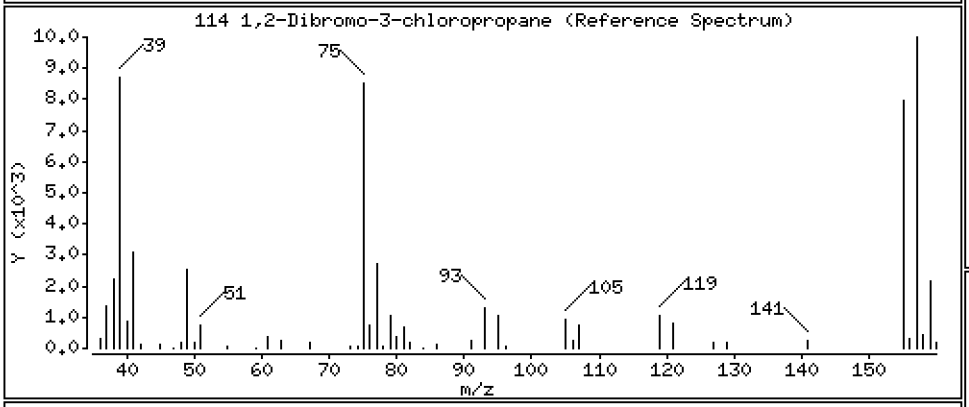
114 1,2-Dibromo-3-chloropropane Concentration: 17.9648 ug/L

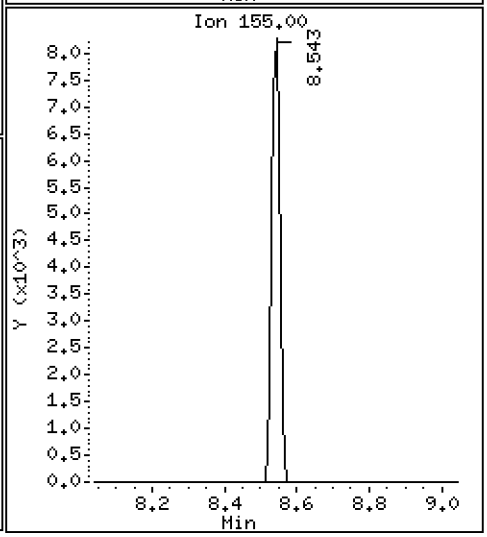


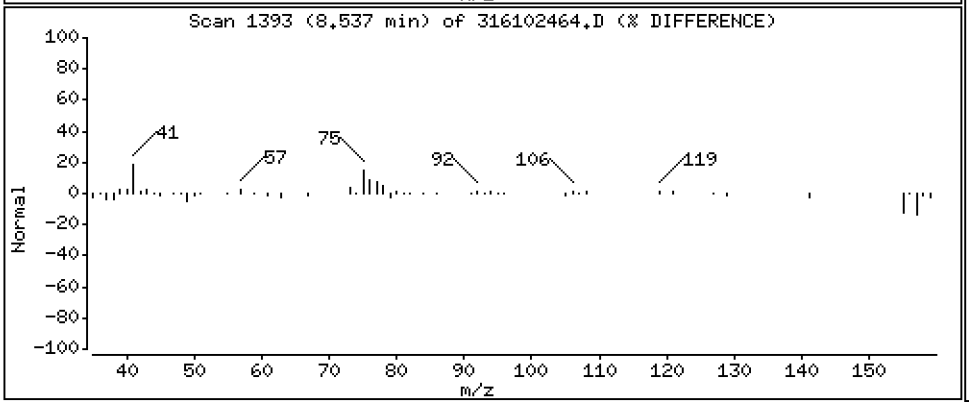












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 119

Date : 25-OCT-2016 03:26

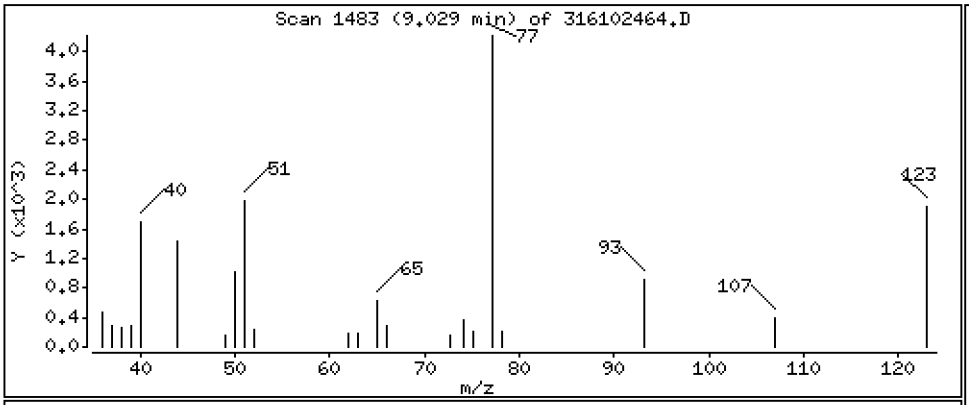
Client ID: LCS for HBN 174041 Instrument: ms03.i

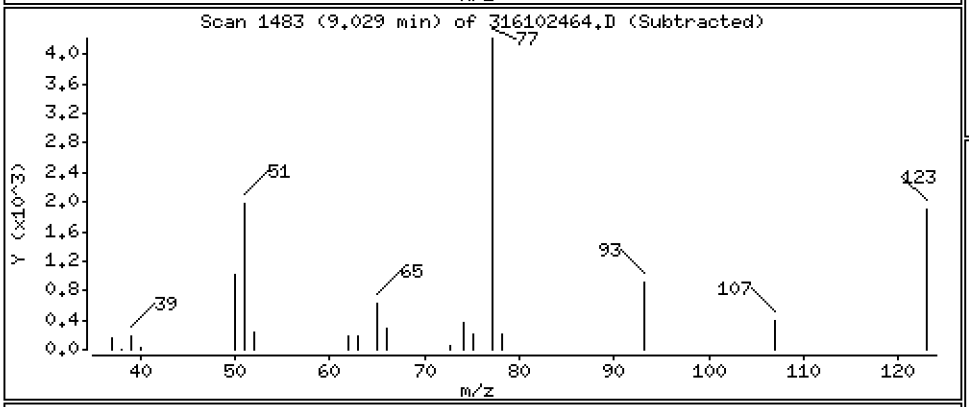
Sample Info: 2428716;;1;3;;LCS;1;

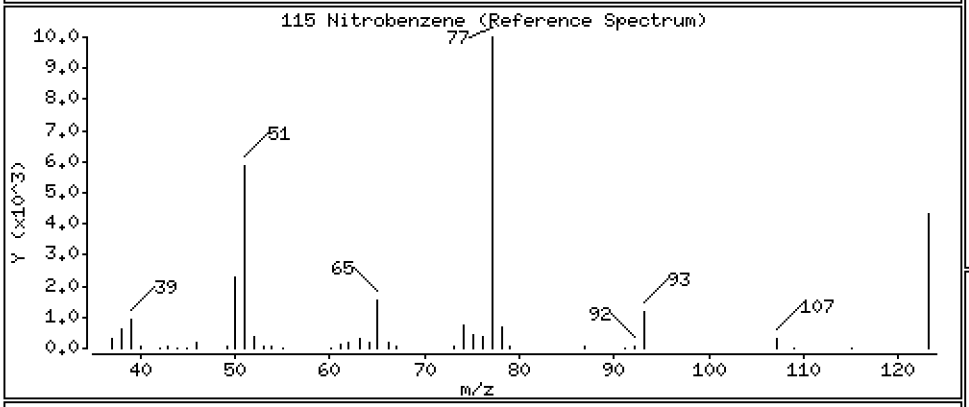
Purge Volume: 5.0 Operator: CJG

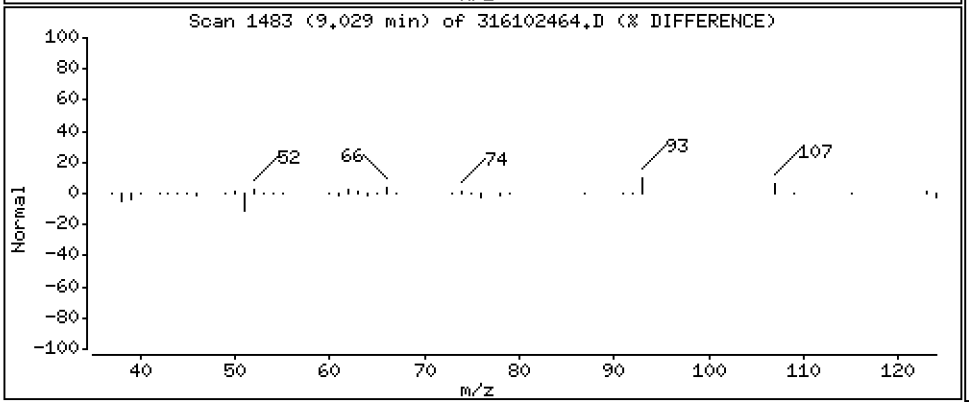
Column phase: DB-VRX Column diameter: 0.25

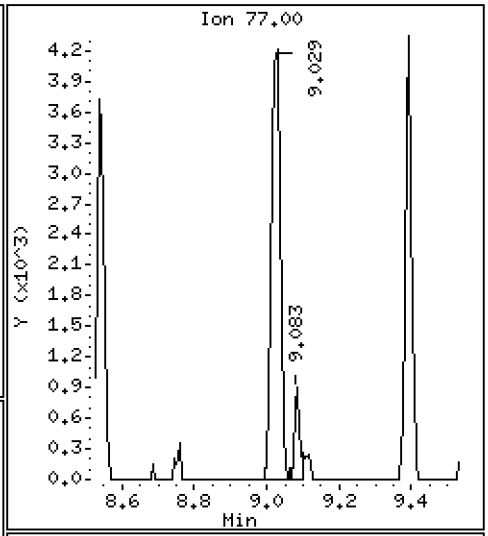
115 Nitrobenzene Concentration: 286.050 ug/L

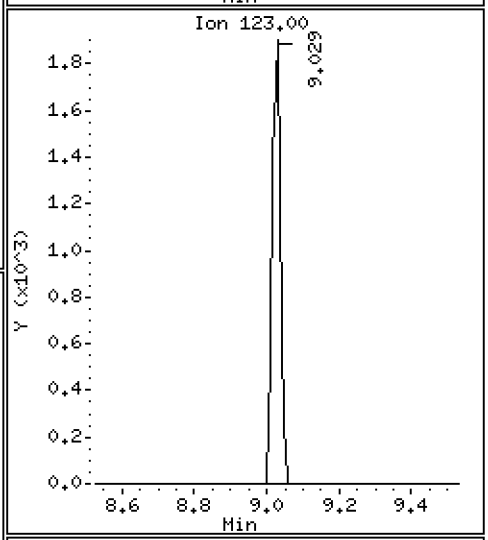


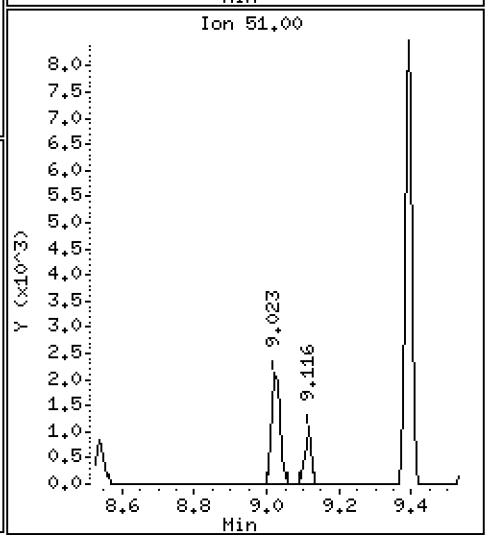












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 120

Date : 25-OCT-2016 03:26

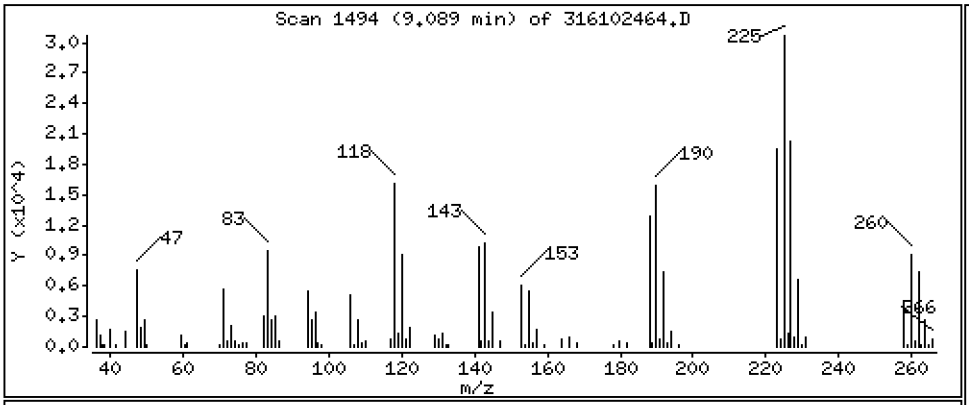
Client ID: LCS for HBN 174041 Instrument: ms03.i

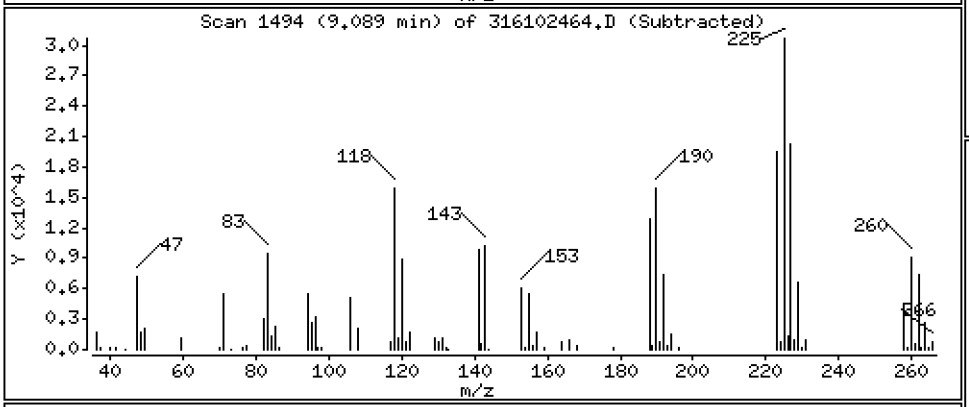
Sample Info: 2428716;;1;3;;LCS;1;

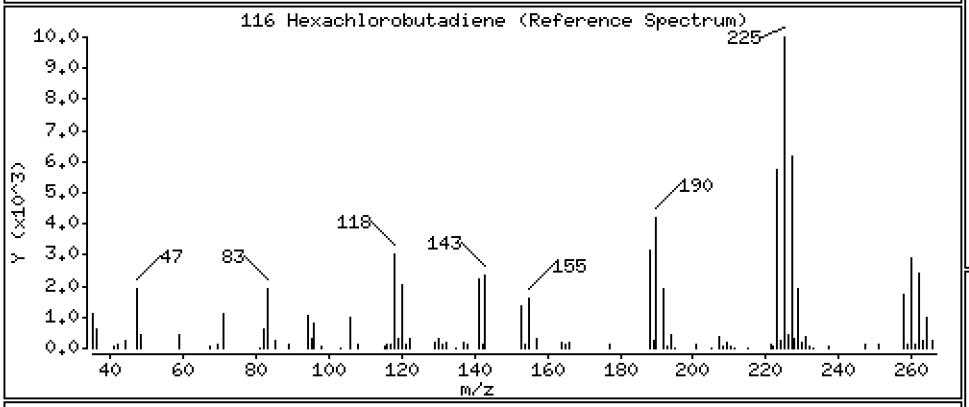
Purge Volume: 5.0 Operator: CJG

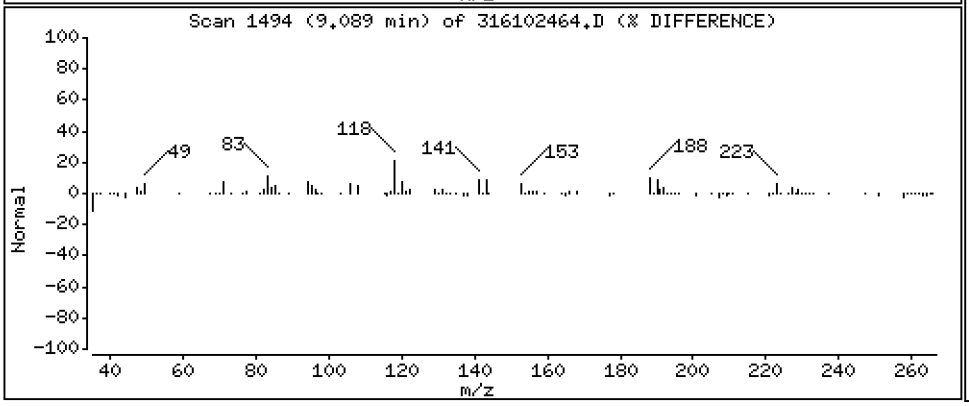
Column phase: DB-VRX Column diameter: 0.25

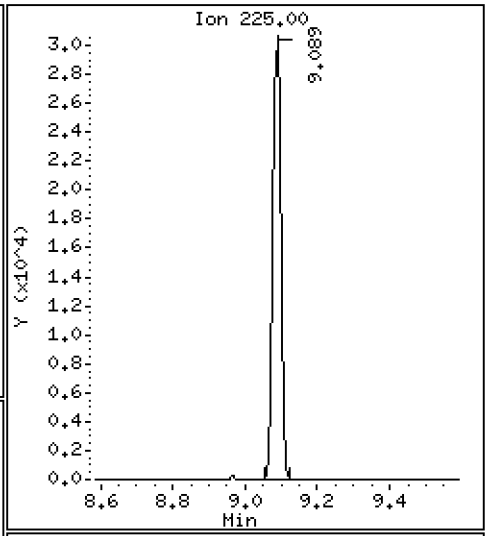
116 Hexachlorobutadiene Concentration: 20.7131 ug/L

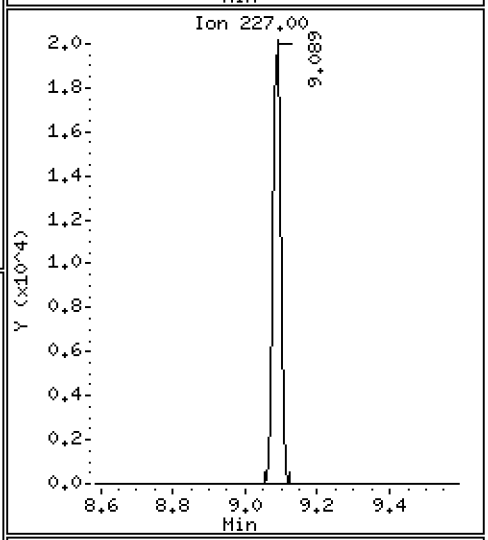


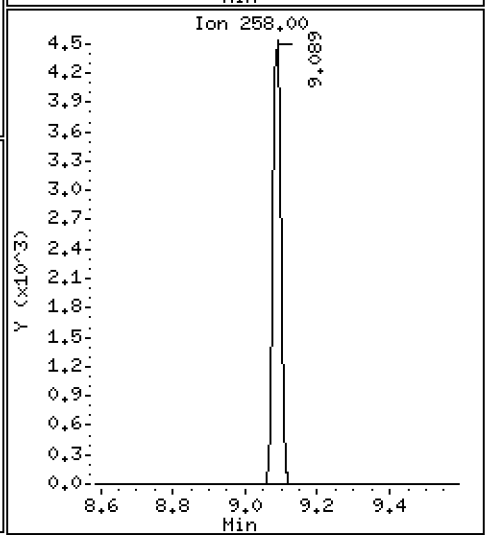












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 121

Date : 25-OCT-2016 03:26

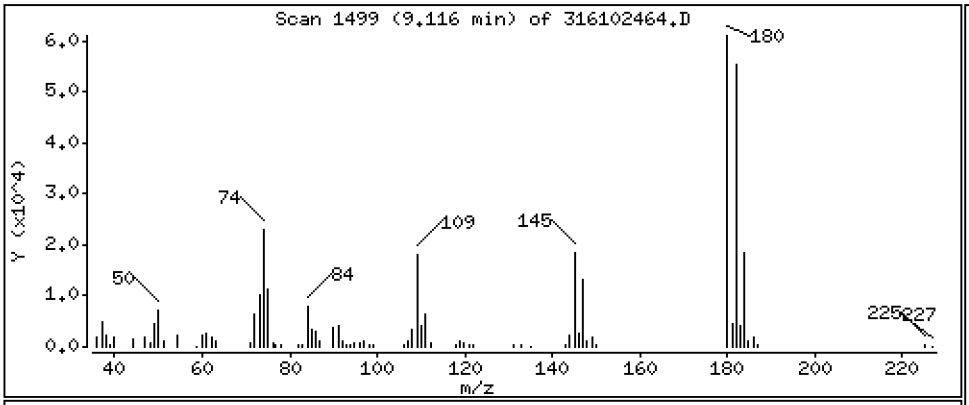
Client ID: LCS for HBN 174041 Instrument: ms03.i

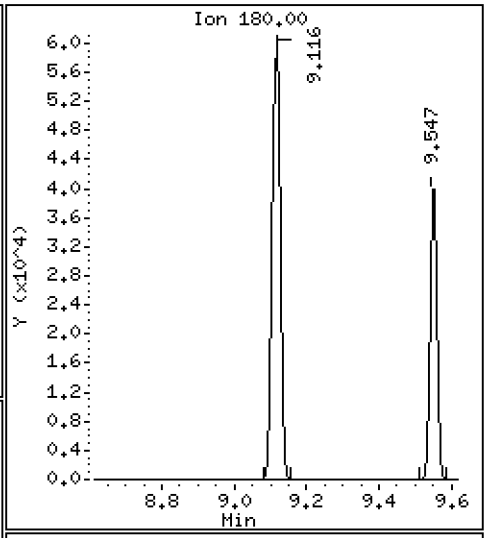
Sample Info: 2428716;;1;3;;LCS;1;

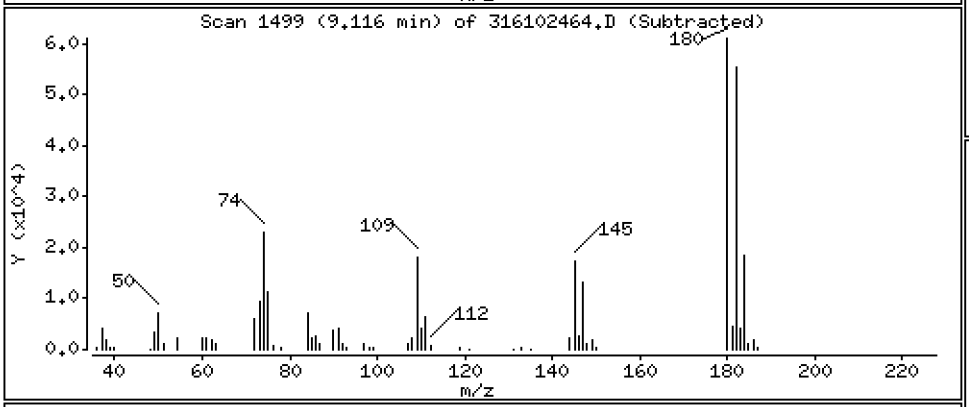
Purge Volume: 5.0 Operator: CJG

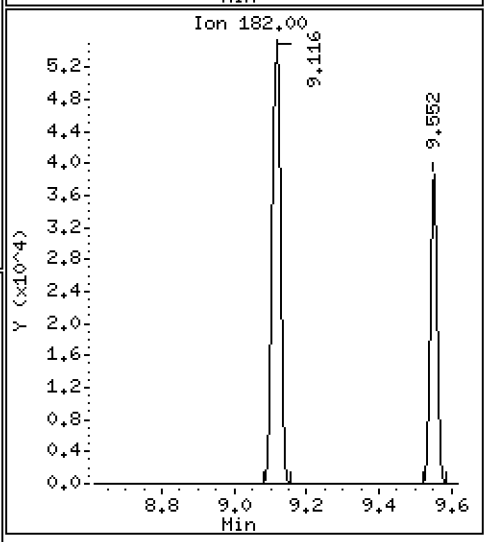
Column phase: DB-VRX Column diameter: 0.25

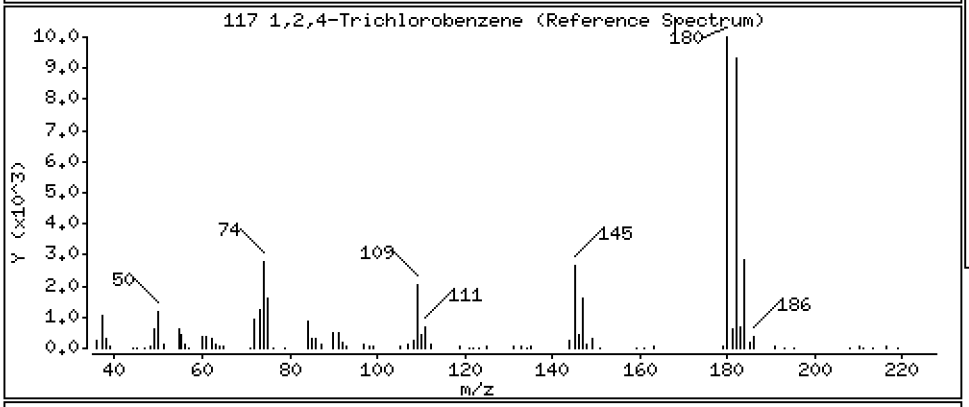
117 1,2,4-Trichlorobenzene Concentration: 18.4251 ug/L

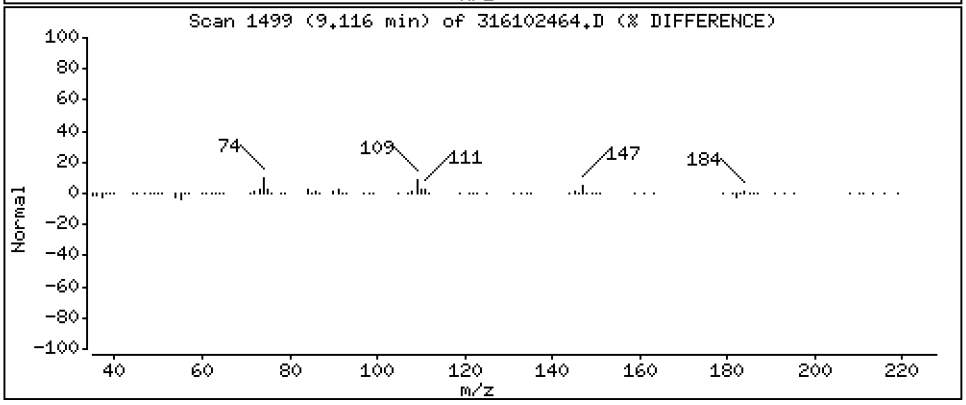












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 122

Date : 25-OCT-2016 03:26

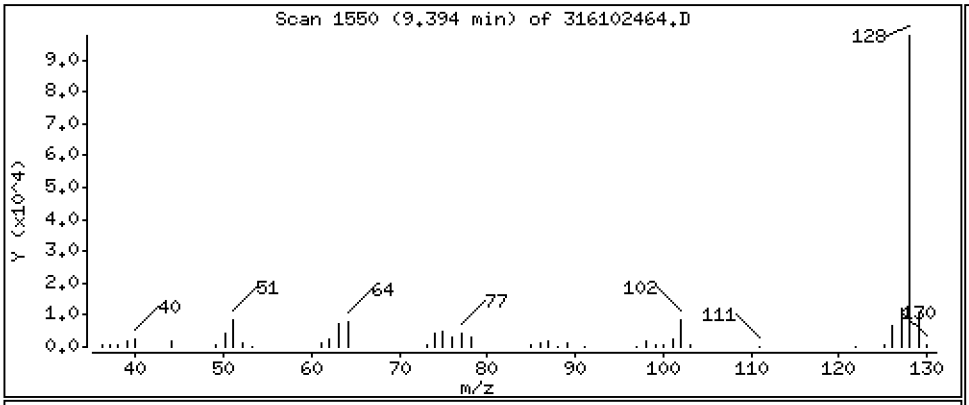
Client ID: LCS for HBN 174041 Instrument: ms03.i

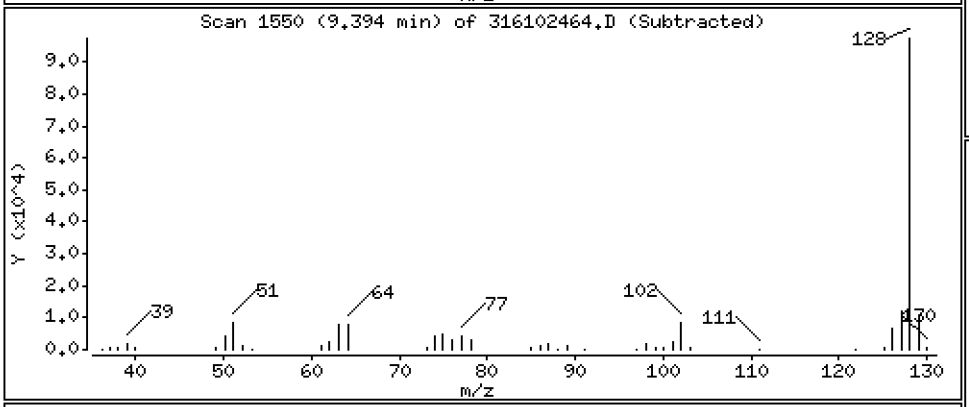
Sample Info: 2428716;;1;3;;LCS;1;

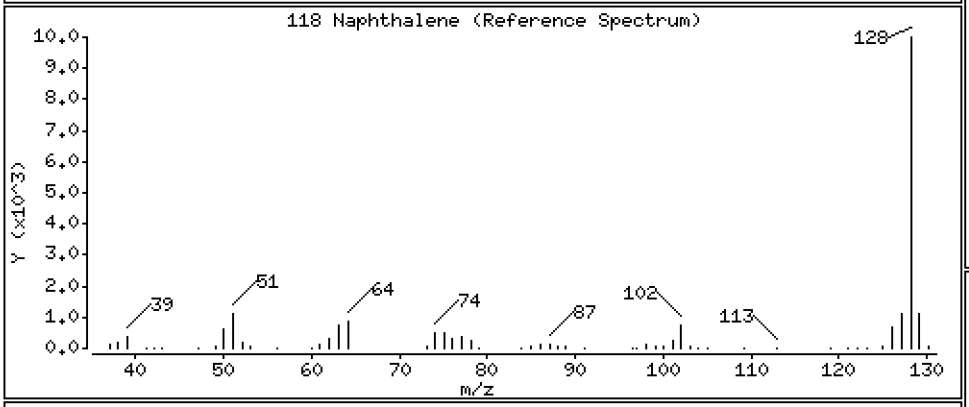
Purge Volume: 5.0 Operator: CJG

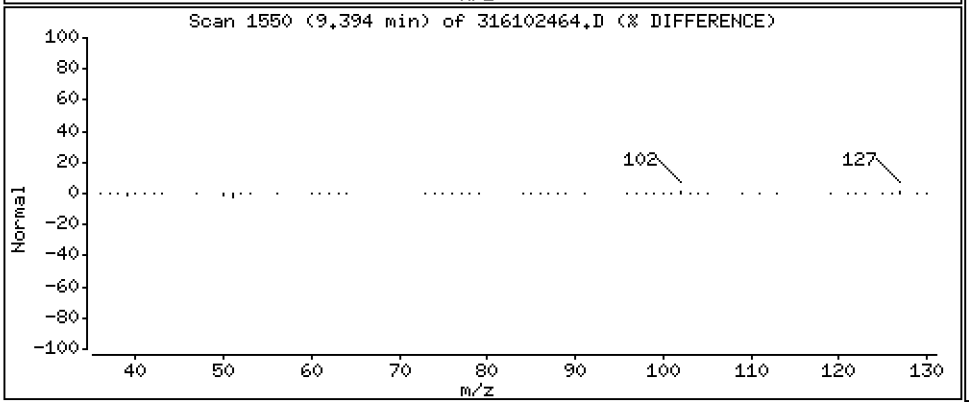
Column phase: DB-VRX Column diameter: 0.25

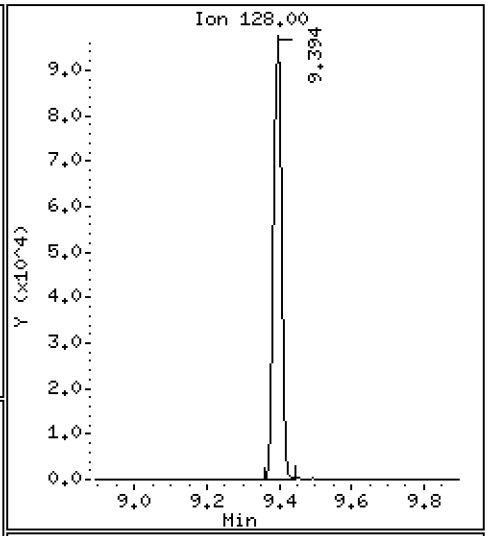
118 Naphthalene Concentration: 16.3213 ug/L

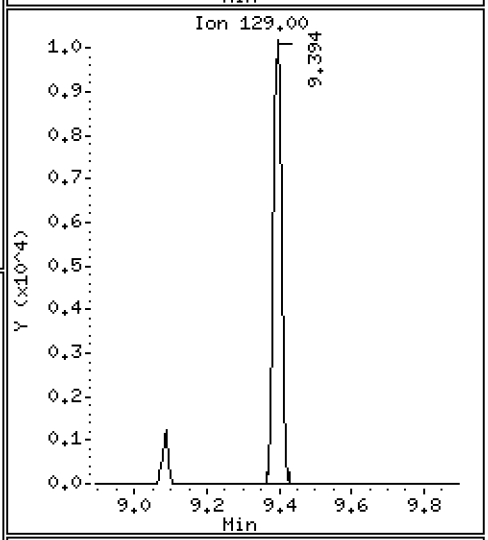


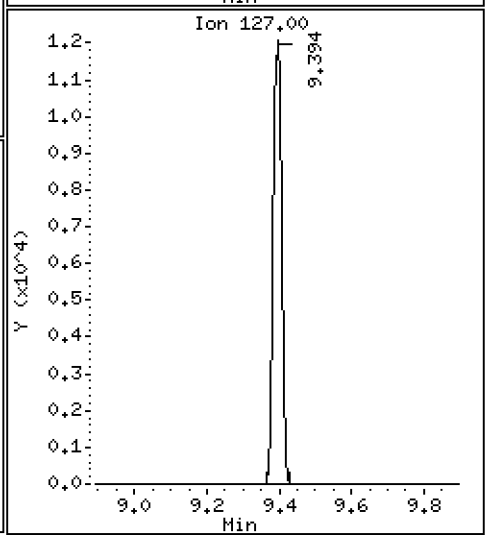












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 123

Date : 25-OCT-2016 03:26

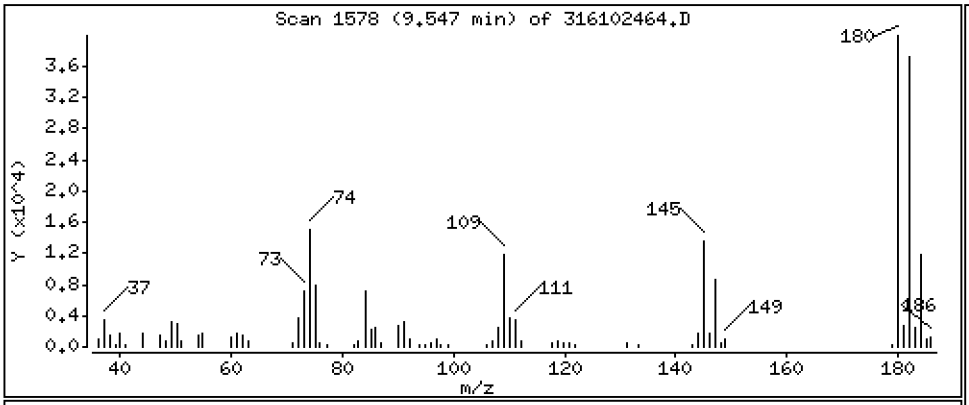
Client ID: LCS for HBN 174041 Instrument: ms03.i

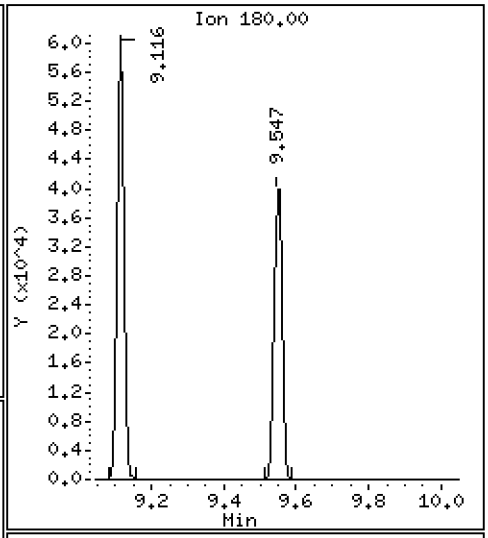
Sample Info: 2428716;;1;3;;LCS;1;

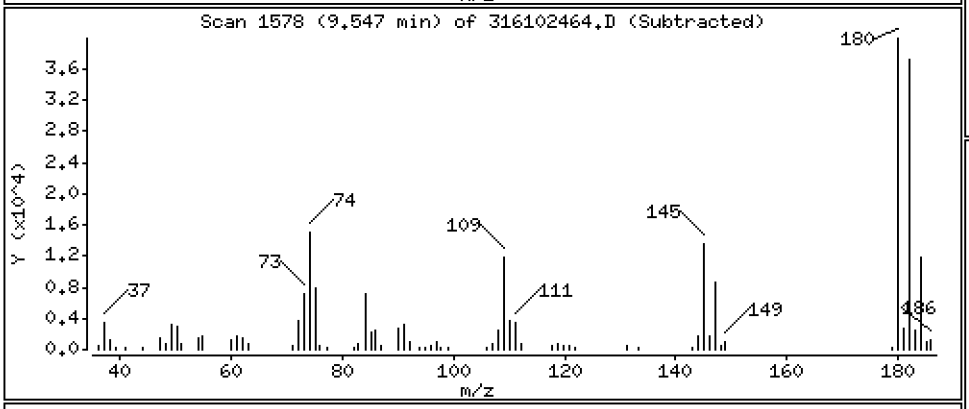
Purge Volume: 5.0 Operator: CJG

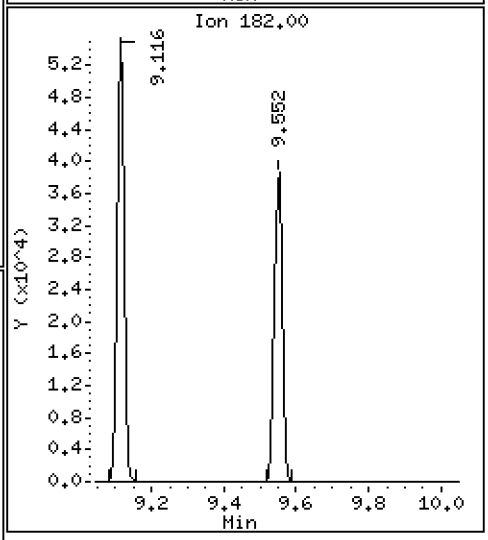
Column phase: DB-VRX Column diameter: 0.25

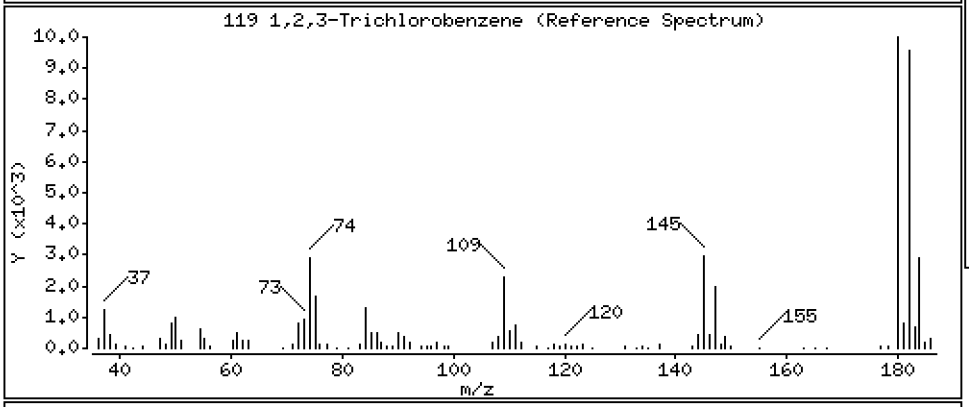
119 1,2,3-Trichlorobenzene Concentration: 18.4598 ug/L

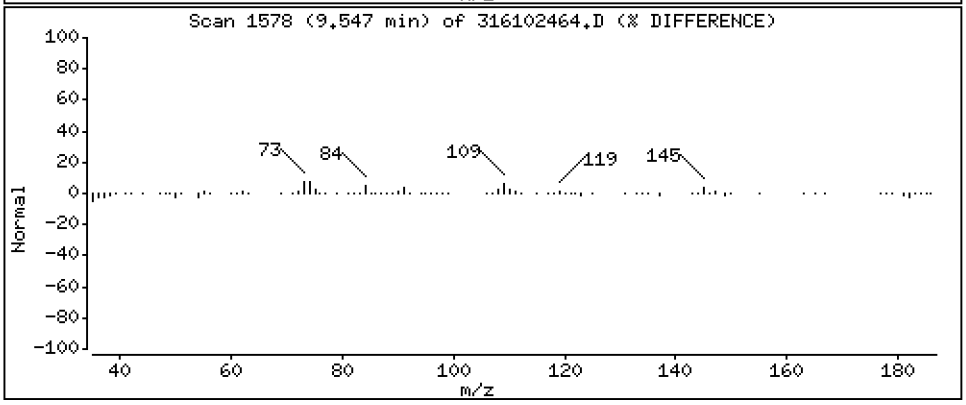












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 124

Date : 25-OCT-2016 03:26

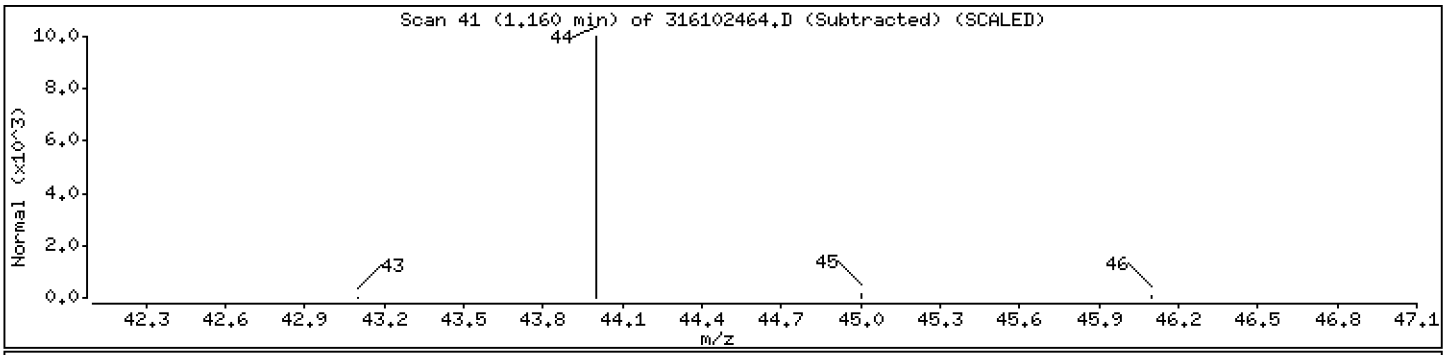
Client ID: LCS for HBN 174041 Instrument: ms03.i

Sample Info: 2428716;;1;3;;LCS;1;

Purge Volume: 5.0 Operator: CJG

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 125

Date : 25-OCT-2016 03:26

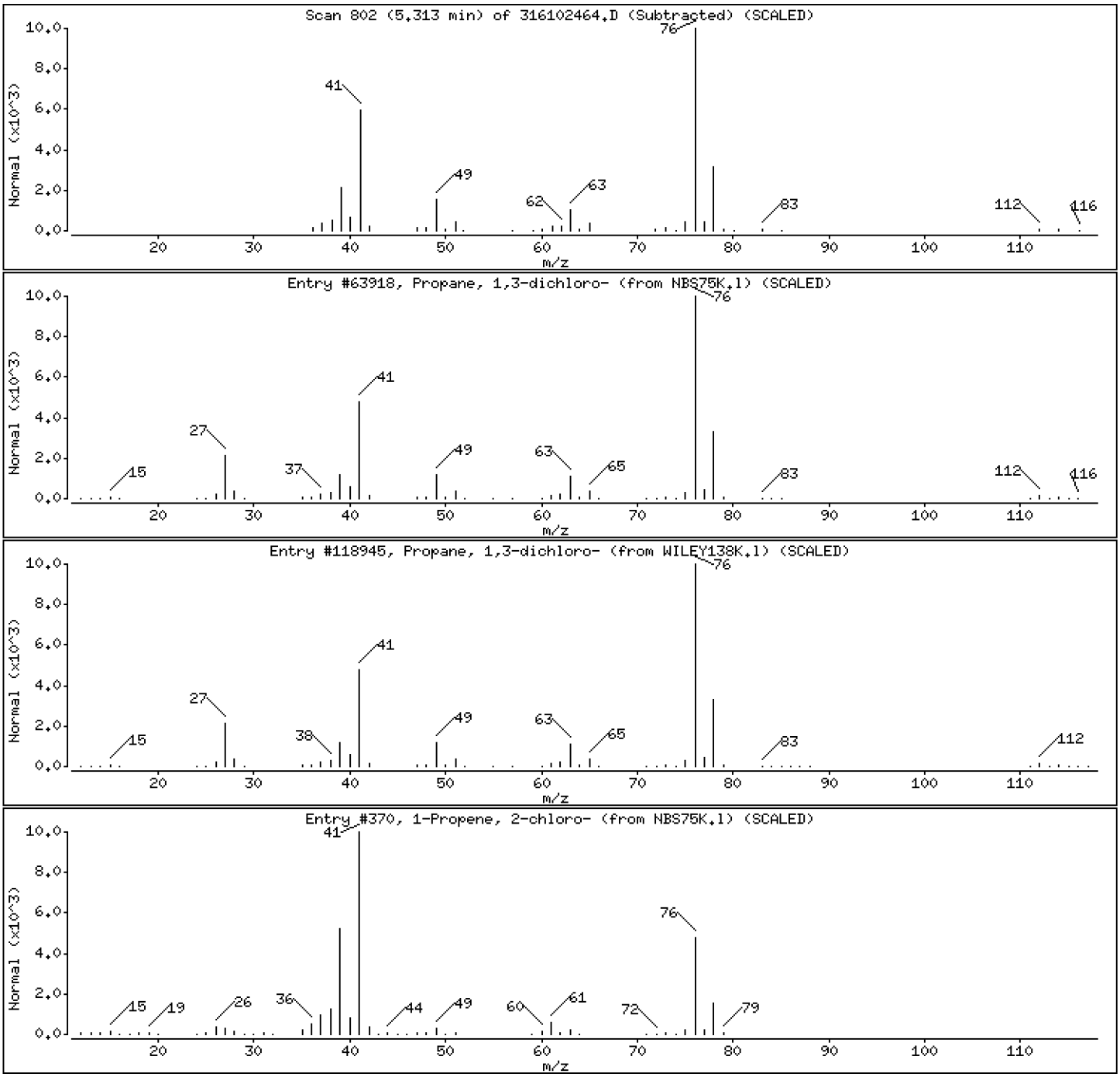
Client ID: LCS for HBN 174041 Instrument: ms03.i

Sample Info: 2428716;;1;3;;LCS;1;

Purge Volume: 5.0 Operator: CJG

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propane, 1,3-dichloro-	142-28-9	NBS75K.l	63918	83	C3H6C12	112
Propane, 1,3-dichloro-	142-28-9	WILEY138K.l	118945	83	C3H6C12	112
1-Propene, 2-chloro-	557-98-2	NBS75K.l	370	78	C3H5Cl	76

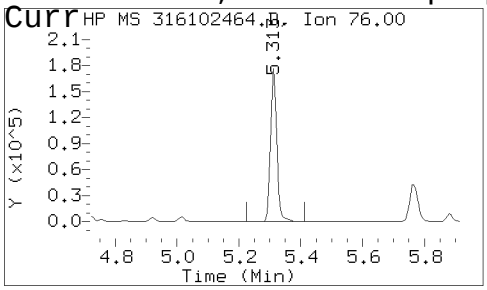


MANUAL INTEGRATION REPORT

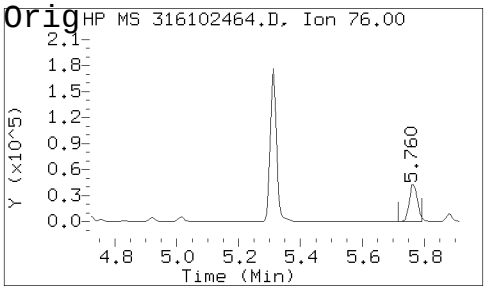
Report Date: 10/25/2016 10:11
Lab Sample ID: 2428716 Client ID: LCS for HBN 174041
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102464.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102464.D
Injection Date: 25-OCT-2016 03:26 Operator: CJG

1,3-Dichloropropane

Curr



Orig



Curr. Area: 246087
Orig. Area: 79297

Curr. ON-COL: 17.9384
Orig. ON-COL: 5.78033

UNASSIGNED PEAK REPORT

Report Date: 10/25/2016 10:11
Lab Sample ID: 2428716 Client ID: LCS for HBN 174041
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102464.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102464.D
Injection Date: 25-OCT-2016 03:26 Operator: CJG

Continuing Calibrations

Data File: 316102480.D Page 1
Report Date: 25-Oct-2016 10:29

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610248
Lab Smp Id: 1801
Inj Date : 25-OCT-2016 09:17
Operator : CJG Inst ID: ms03.i
Smp Info : 1801;;1;2;4;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b0
Meth Date : 25-Oct-2016 10:10 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 30 QC Sample:
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.259	(0.332)	654901	54.2182	54.2182	
2 Chloromethane	50	1.389	1.390	(0.367)	601836	55.1837	55.1837	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	654932	54.0966	54.0966	
4 Bromomethane	94	1.640	1.646	(0.433)	229528	47.3514	47.3514	
5 Chloroethane	64	1.716	1.723	(0.453)	402277	53.8102	53.8102	
6 Pentane	41	1.793	1.794	(0.473)	297540	46.1610	46.1610	
7 Trichlorofluoromethane	101	1.798	1.799	(0.475)	708497	52.0044	52.0044	
8 Dichlorofluoromethane	67	1.826	1.826	(0.482)	803875	44.2184	44.2184	
9 Ethyl Ether	74	1.967	1.968	(0.519)	272246	45.0271	45.0271	
10 1,1-Dichloroethene	61	2.087	2.088	(0.551)	547320	43.5434	43.5434	
12 Carbon Disulfide	76	2.120	2.121	(0.559)	883363	41.1974	41.1974	
11 Freon 113	101	2.098	2.105	(0.554)	298488	42.1057	42.1057	
13 Iodomethane	127	2.180	2.181	(0.575)	91955	47.4847	47.4847	
14 Acrolein	56	2.273	2.274	(0.600)	550922	466.804	466.804	
16 3-Chloro-1-propene	41	2.344	2.345	(0.619)	407424	38.9072	38.9072	
15 Isopropyl Alcohol	45	2.333	2.334	(0.616)	89213	331.836	331.836	
17 Methylene Chloride	84	2.404	2.405	(0.634)	386082	47.4578	47.4578	
18 Acetone	58	2.426	2.427	(0.640)	160666	246.522	246.522	
19 Methyl acetate	74	2.480	2.481	(0.655)	61800	47.7866	47.7866(Q)	
20 trans-1,2-Dichloroethene	61	2.486	2.487	(0.656)	553933	45.3409	45.3409	
21 Hexane	57	2.519	2.519	(0.665)	762518	44.3159	44.3159	

Data File: 316102480.D Page 2
Report Date: 25-Oct-2016 10:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.529	2.530	(0.667)	991595	47.0318	47.0318	
	23 tert.- Butyl Alcohol	59	2.568	2.563	(0.678)	133115	293.368	293.368	
	24 Acetonitrile	41	2.682	2.683	(0.708)	205320	299.923	299.923	
	25 Diisopropyl ether	45	2.720	2.721	(0.718)	1362581	49.3766	49.3766	
	26 Chloroprene	53	2.797	2.798	(0.738)	575692	47.7884	47.7884	
	27 1,1-Dichloroethane	63	2.813	2.814	(0.742)	732223	46.0352	46.0352	
	28 Acrylonitrile	53	2.840	2.841	(0.750)	700171	243.144	243.144	
	30 n-Propanol	41	2.911	2.912	(0.768)	266622	542.301	542.301(Q)	
	29 Ethyl tert-butyl ether	59	2.911	2.912	(0.768)	1156082	49.3547	49.3547	
	31 Vinyl acetate	86	2.928	2.929	(0.773)	78156	44.9020	44.9020	
	32 cis-1,2-Dichloroethene	61	3.097	3.098	(0.817)	558849	45.7703	45.7703	
	33 2,2-Dichloropropane	77	3.157	3.158	(0.833)	338994	35.1598	35.1598	
M	100 1,2-Dichloroethene, Total	61				1112782	91.1112	91.1112	
	34 Bromochloromethane	128	3.206	3.207	(0.846)	156445	46.0563	46.0563	
	35 Cyclohexane	84	3.211	3.212	(0.847)	597744	45.5602	45.5602	
	36 Chloroform	83	3.233	3.234	(0.853)	715888	49.1857	49.1857	
	37 Ethyl acetate	43	3.282	3.278	(0.866)	360555	51.5948	51.5948	
	38 Methyl acrylate	55	3.293	3.294	(0.869)	344541	50.8347	50.8347	
	39 Carbon Tetrachloride	117	3.326	3.321	(0.878)	390357	46.6262	46.6262	
	40 Tetrahydrofuran	42	3.332	3.327	(0.879)	572038	258.350	258.350	
$	41 Dibromofluoromethane	113	3.337	3.338	(0.881)	295838	45.0770	45.0770	
	42 1,1,1-Trichloroethane	97	3.359	3.360	(0.886)	528013	47.3195	47.3195	
	43 2-Butanone	72	3.397	3.398	(0.896)	240273	254.573	254.573	
	44 1,1-Dichloropropene	75	3.424	3.425	(0.904)	543170	46.0482	46.0482	
	45 1-Chlorobutane	41	3.446	3.447	(0.909)	439516	51.3855	51.3855	
	46 Heptane	71	3.512	3.512	(0.927)	235762	43.8094	43.8094	
	48 Propionitrile	54	3.577	3.578	(0.944)	270394	250.925	250.925	
	47 Benzene	78	3.561	3.567	(0.940)	1674519	45.9812	45.9812	
	49 Methacrylonitrile	67	3.588	3.583	(0.947)	158992	47.9500	47.9500	
	50 tert-amyl methyl Ether	73	3.599	3.600	(0.950)	921343	48.6770	48.6770	
$	51 1,2-Dichloroethane-d4	65	3.637	3.638	(0.960)	388862	49.8107	49.8107	
	54 Isobutyl alcohol	43	3.632	3.632	(0.958)	142979	726.494	726.494(Q)	
	52 1,2-Dichloroethane	62	3.675	3.676	(0.970)	495400	45.9320	45.9320	
	53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	100668	268.591	268.591	
*	55 Fluorobenzene	96	3.790	3.791	(1.000)	995338	30.0000		
	56 Diisobutylene	57	3.795	3.796	(1.001)	1071069	52.4587	52.4587	
	57 Trichloroethene	95	3.883	3.883	(1.024)	379768	43.8083	43.8083	
	58 Methyl cyclohexane	83	3.883	3.883	(0.674)	637693	44.8020	44.8020	
	59 tert-Amyl Ethylether	59	3.992	3.987	(1.053)	843159	50.0091	50.0091	
	60 Dibromomethane	93	4.139	4.139	(1.092)	206320	46.6302	46.6302	
	61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	425018	47.4903	47.4903	
	62 Bromodichloromethane	83	4.221	4.222	(1.114)	431671	47.9239	47.9239	
	63 Methyl methacrylate	41	4.292	4.293	(1.132)	325085	52.7107	52.7107	
	64 1,4-Dioxane	88	4.335	4.336	(1.144)	74770	2517.97	2517.97(R)	
	65 2-Chloroethylvinyl ether	63	4.548	4.549	(1.200)	189157	43.3983	43.3983	
	66 cis-1,3-Dichloropropene	75	4.603	4.604	(0.799)	548513	47.4055	47.4055	
	67 Octane	85	4.608	4.609	(0.800)	148173	42.6346	42.6346	
$	68 Toluene-d8	98	4.723	4.724	(0.820)	1290744	48.5545	48.5545	
	69 Toluene	92	4.756	4.756	(0.826)	945876	46.3081	46.3081	
	70 Chloroacetonitrile	48	4.827	4.833	(0.838)	50017	268.693	268.693	
	71 2-Nitropropane	41	4.908	4.909	(0.852)	375623	247.303	247.303	
	72 1,1-Dichloro-2-propanone	63	4.919	4.920	(0.854)	35059	248.633	248.633	
	73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.986	(0.865)	1889365	268.312	268.312	
	75 trans-1,3-Dichloropropene	75	5.012	5.013	(0.870)	484323	48.1721	48.1721	

Data File: 316102480.D Page 3
Report Date: 25-Oct-2016 10:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	260070	52.1798	52.1798	
	76 Ethyl methacrylate	69	5.094	5.095	(0.884)	485348	52.6737	52.6737	
	77 1,1,2-Trichloroethane	83	5.127	5.122	(0.890)	271383	45.7039	45.7039	
	78 Chlorodibromomethane	129	5.247	5.247	(0.911)	251846	47.1613	47.1613	
	79 1,3-Dichloropropane	76	5.312	5.313	(0.922)	583169	45.5083	45.5083(M)	H
	80 1,2-Dibromoethane	107	5.421	5.422	(0.941)	276832	46.8712	46.8712	
	81 2-Hexanone	43	5.541	5.542	(0.962)	1235113	276.917	276.917	
	82 1-Chlorohexane	91	5.738	5.739	(0.996)	489997	47.0370	47.0370	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	428774	30.0000		
	85 Ethylbenzene	106	5.781	5.782	(1.004)	526413	44.9741	44.9741	
	84 Chlorobenzene	112	5.771	5.777	(1.002)	927596	43.2863	43.2863	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.815	(1.009)	268791	47.7705	47.7705	
	87 mp-Xylene	106	5.880	5.880	(1.021)	1252351	91.6912	91.6912	
M	120 1,3-Dichloropropene, Total	75				1032836	95.5776	95.5776	
	88 o-Xylene	106	6.196	6.197	(1.076)	579266	47.7682	47.7682	
	89 Styrene	104	6.234	6.235	(0.829)	970055	48.7807	48.7807	
	90 Bromoform	173	6.262	6.262	(0.832)	101277	39.6537	39.6537	
	91 Isopropylbenzene	105	6.425	6.426	(0.854)	1534980	47.2391	47.2391	
$	92 4-Bromofluorobenzene	174	6.649	6.650	(0.884)	266795	48.0752	48.0752	
M	121 TOTAL XYLENES	106				1831617	139.459	139.459	
	94 n-Propylbenzene	120	6.736	6.737	(0.896)	394263	47.9833	47.9833	
	93 Bromobenzene	156	6.731	6.732	(0.895)	299093	43.9073	43.9073	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.792	(0.903)	365718	46.4111	46.4111	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.915)	1164142	48.9293	48.9293	
	96 o-Chlorotoluene	91	6.867	6.868	(0.913)	1191166	46.6857	46.6857	
	98 1,2,3-Trichloropropane	110	6.905	6.906	(0.918)	104935	44.8027	44.8027	
	99 trans-1,4-Dichloro-2-butene	53	6.933	6.933	(0.922)	68070	36.1748	36.1748(Q)	
	101 p-Chlorotoluene	91	6.993	6.994	(0.930)	1082426	46.5669	46.5669	
	102 tert-Butylbenzene	134	7.140	7.141	(0.949)	255341	47.3931	47.3931	
	103 Pentachloroethane	117	7.162	7.163	(0.952)	196990	43.9195	43.9195(Q)	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.956)	1151215	49.4866	49.4866	
	105 sec-Butylbenzene	105	7.276	7.277	(0.967)	1441957	48.4686	48.4686	
	106 p-Isopropyltoluene	134	7.391	7.392	(0.983)	280110	49.4169	49.4169	
	107 1,3-Dichlorobenzene	146	7.462	7.463	(0.992)	535297	48.0636	48.0636	
*	108 1,4-Dichlorobenzene-d4	152	7.522	7.523	(1.000)	268130	30.0000		
	109 1,4-Dichlorobenzene	146	7.533	7.534	(1.001)	540980	48.1247	48.1247	
	111 n-Butylbenzene	134	7.735	7.736	(1.028)	236868	47.4542	47.4542(Q)	
	110 Benzyl Chloride	126	7.735	7.736	(1.028)	39135	26.7826	26.7826(Q)	
	112 Hexachloroethane	117	7.849	7.850	(1.044)	152678	44.0800	44.0800	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.047)	479423	47.8411	47.8411	
	114 1,2-Dibromo-3-chloropropane	75	8.542	8.542	(1.136)	40140	47.7446	47.7446	
	115 Nitrobenzene	77	9.023	9.029	(1.199)	8451	305.340	305.340	
	116 Hexachlorobutadiene	225	9.088	9.089	(1.208)	87926	47.1264	47.1264	
	117 1,2,4-Trichlorobenzene	180	9.115	9.116	(1.212)	196312	45.8233	45.8233	
	118 Naphthalene	128	9.394	9.394	(1.249)	359518	45.1577	45.1577	
	119 1,2,3-Trichlorobenzene	180	9.552	9.547	(1.270)	127704	45.8649	45.8649	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 316102480.D Page 4
Report Date: 25-Oct-2016 10:29

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 25-OCT-2016
Lab File ID: 316102480.D Calibration Time: 00:52
Lab Smp Id: 1801
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: CJG
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	995338	-1.76
83 Chlorobenzene-d5	432864	216432	865728	428774	-0.94
108 1,4-Dichlorobenze	273837	136919	547674	268130	-2.08

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	-0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	-0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102480.D Page 5
Report Date: 25-Oct-2016 10:29

ALS Environmental Services

RECOVERY REPORT

Client Name: Client SDG: 3161024A.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 1801
Level: LOW Operator: CJG
Data Type: MS DATA SampleType:
SpikeList File: DODENDCCV.spk Quant Type: ISTD
Sublist File: DODall.sub
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info:

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.0000	54.2182	108.44	50-150
2	Chloromethane	50.0000	55.1837	110.37	50-150
3	Vinyl Chloride	50.0000	54.0966	108.19	50-150
4	Bromomethane	50.0000	47.3514	94.70	50-150
5	Chloroethane	50.0000	53.8102	107.62	50-150
6	Pentane	50.0000	46.1610	92.32	50-150
7	Trichlorofluoromet	50.0000	52.0044	104.01	50-150
8	Dichlorofluorometh	50.0000	44.2184	88.44	50-150
9	Ethyl Ether	50.0000	45.0271	90.05	50-150
10	1,1-Dichloroethene	50.0000	43.5434	87.09	50-150
11	Freon 113	50.0000	42.1057	84.21	50-150
12	Carbon Disulfide	50.0000	41.1974	82.39	50-150
13	Iodomethane	50.0000	47.4847	94.97	50-150
14	Acrolein	500.000	466.804	93.36	50-150
15	Isopropyl Alcohol	250.000	331.836	132.73	50-150
16	3-Chloro-1-propene	50.0000	38.9072	77.81	50-150
17	Methylene Chloride	50.0000	47.4578	94.92	50-150
18	Acetone	250.000	246.522	98.61	50-150
19	Methyl acetate	50.0000	47.7866	95.57	50-150
20	trans-1,2-Dichloro	50.0000	45.3409	90.68	50-150
21	Hexane	50.0000	44.3159	88.63	50-150
22	Methyl t-Butyl Eth	50.0000	47.0318	94.06	50-150
23	tert.- Butyl Alcoh	250.000	293.368	117.35	50-150
24	Acetonitrile	250.000	299.923	119.97	50-150
25	Diisopropyl ether	50.0000	49.3766	98.75	50-150
26	Chloroprene	50.0000	47.7884	95.58	50-150
27	1,1-Dichloroethane	50.0000	46.0352	92.07	50-150
28	Acrylonitrile	250.000	243.144	97.26	50-150
30	n-Propanol	500.000	542.301	108.46	50-150
29	Ethyl tert-butyl e	50.0000	49.3547	98.71	50-150
31	Vinyl acetate	50.0000	44.9020	89.80	50-150
32	cis-1,2-Dichloroet	50.0000	45.7703	91.54	50-150
33	2,2-Dichloropropan	50.0000	35.1598	70.32	50-150
34	Bromochloromethane	50.0000	46.0563	92.11	50-150
35	Cyclohexane	50.0000	45.5602	91.12	50-150
36	Chloroform	50.0000	49.1857	98.37	50-150
37	Ethyl acetate	50.0000	51.5948	103.19	50-150
38	Methyl acrylate	50.0000	50.8347	101.67	50-150
39	Carbon Tetrachlori	50.0000	46.6262	93.25	50-150
40	Tetrahydrofuran	250.000	258.350	103.34	50-150

Data File: 316102480.D Page 6
Report Date: 25-Oct-2016 10:29

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
42	1,1,1-Trichloroeth	50.0000	47.3195	94.64	50-150
43	2-Butanone	250.000	254.573	101.83	50-150
44	1,1-Dichloropropen	50.0000	46.0482	92.10	50-150
45	1-Chlorobutane	50.0000	51.3855	102.77	50-150
46	Heptane	50.0000	43.8094	87.62	50-150
47	Benzene	50.0000	45.9812	91.96	50-150
48	Propionitrile	250.000	250.925	100.37	50-150
49	Methacrylonitrile	50.0000	47.9500	95.90	50-150
50	tert-amyl methyl E	50.0000	48.6770	97.35	50-150
54	Isobutyl alcohol	500.000	726.494	145.30	50-150
52	1,2-Dichloroethane	50.0000	45.9320	91.86	50-150
53	tert-Amyl Alcohol	250.000	268.591	107.44	50-150
56	Diisobutylene	50.0000	52.4587	104.92	50-150
57	Trichloroethene	50.0000	43.8083	87.62	50-150
58	Methyl cyclohexane	50.0000	44.8020	89.60	50-150
59	tert-Amyl Ethyleth	50.0000	50.0091	100.02	50-150
60	Dibromomethane	50.0000	46.6302	93.26	50-150
61	1,2-Dichloropropan	50.0000	47.4903	94.98	50-150
62	Bromodichlorometha	50.0000	47.9239	95.85	50-150
63	Methyl methacrylat	50.0000	52.7107	105.42	50-150
64	1,4-Dioxane	1250.00	2517.97	201.44*	50-150
65	2-Chloroethylvinyl	50.0000	43.3983	86.80	50-150
66	cis-1,3-Dichloropr	50.0000	47.4055	94.81	50-150
67	Octane	50.0000	42.6346	85.27	50-150
69	Toluene	50.0000	46.3081	92.62	50-150
70	Chloroacetonitrile	250.000	268.693	107.48	50-150
71	2-Nitropropane	250.000	247.303	98.92	50-150
72	1,1-Dichloro-2-pro	250.000	248.633	99.45	50-150
73	4-Methyl-2-Pentano	250.000	268.312	107.32	50-150
74	Tetrachloroethene	50.0000	52.1798	104.36	50-150
75	trans-1,3-Dichloro	50.0000	48.1721	96.34	50-150
76	Ethyl methacrylate	50.0000	52.6737	105.35	50-150
77	1,1,2-Trichloroeth	50.0000	45.7039	91.41	50-150
78	Chlorodibromometha	50.0000	47.1613	94.32	50-150
80	1,2-Dibromoethane	50.0000	46.8712	93.74	50-150
81	2-Hexanone	250.000	276.917	110.77	50-150
82	1-Chlorohexane	50.0000	47.0370	94.07	50-150
79	1,3-Dichloropropan	50.0000	45.5083	91.02	50-150
84	Chlorobenzene	50.0000	43.2863	86.57	50-150
85	Ethylbenzene	50.0000	44.9741	89.95	50-150
86	1,1,1,2-Tetrachlor	50.0000	47.7705	95.54	50-150
87	mp-Xylene	100.000	91.6912	91.69	50-150
88	o-Xylene	50.0000	47.7682	95.54	50-150
89	Styrene	50.0000	48.7807	97.56	50-150
90	Bromoform	50.0000	39.6537	79.31	50-150
91	Isopropylbenzene	50.0000	47.2391	94.48	50-150
93	Bromobenzene	50.0000	43.9073	87.81	50-150
94	n-Propylbenzene	50.0000	47.9833	95.97	50-150
95	1,1,2,2-Tetrachlor	50.0000	46.4111	92.82	50-150
96	o-Chlorotoluene	50.0000	46.6857	93.37	50-150
M 100	1,2-Dichloroethene	100.000	91.1112	91.11	50-150
97	1,3,5-Trimethylben	50.0000	48.9293	97.86	50-150
98	1,2,3-Trichloropro	50.0000	44.8027	89.61	50-150
99	trans-1,4-Dichloro	50.0000	36.1748	72.35	50-150

Data File: 316102480.D Page 7
Report Date: 25-Oct-2016 10:29

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	101 p-Chlorotoluene	50.0000	46.5669	93.13	50-150
	102 tert-Butylbenzene	50.0000	47.3931	94.79	50-150
	103 Pentachloroethane	50.0000	43.9195	87.84	50-150
	104 1,2,4-Trimethylben	50.0000	49.4866	98.97	50-150
	105 sec-Butylbenzene	50.0000	48.4686	96.94	50-150
	106 p-Isopropyltoluene	50.0000	49.4169	98.83	50-150
	107 1,3-Dichlorobenzen	50.0000	48.0636	96.13	50-150
	109 1,4-Dichlorobenzen	50.0000	48.1247	96.25	50-150
	110 Benzyl Chloride	50.0000	26.7826	53.57	50-150
	111 n-Butylbenzene	50.0000	47.4542	94.91	50-150
	112 Hexachloroethane	50.0000	44.0800	88.16	50-150
	113 1,2-Dichlorobenzen	50.0000	47.8411	95.68	50-150
	114 1,2-Dibromo-3-chlo	50.0000	47.7446	95.49	50-150
	115 Nitrobenzene	500.000	305.340	61.07	50-150
	116 Hexachlorobutadien	50.0000	47.1264	94.25	50-150
	117 1,2,4-Trichloroben	50.0000	45.8233	91.65	50-150
	118 Naphthalene	50.0000	45.1577	90.32	50-150
M	120 1,3-Dichloropropen	100.000	95.5776	95.58	50-150
	119 1,2,3-Trichloroben	50.0000	45.8649	91.73	50-150
M	121 TOTAL XYLENES	150.000	139.459	92.97	50-150

	SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$	41 Dibromofluorometha	50.0000	45.0770	90.15	80-119
$	51 1,2-Dichloroethane	50.0000	49.8107	99.62	81-118
$	68 Toluene-d8	50.0000	48.5545	97.11	89-112
$	92 4-Bromofluorobenze	50.0000	48.0752	96.15	85-114

Data File: 316102480.D Page 8
Report Date: 25-Oct-2016 10:29

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1801
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	54.2182	
74-87-3	Chloromethane	55.1837	
75-01-4	Vinyl Chloride	54.0966	
74-83-9	Bromomethane	47.3514	
75-00-3	Chloroethane	53.8102	
109-66-0	Pentane	46.1610	
75-69-4	Trichlorofluoromethane	52.0044	
75-43-4	Dichlorofluoromethane	44.2184	
60-29-7	Ethyl Ether	45.0271	
75-35-4	1,1-Dichloroethene	43.5434	
75-15-0	Carbon Disulfide	41.1974	
76-13-1	Freon 113	42.1057	
74-88-4	Iodomethane	47.4847	
107-02-8	Acrolein	466.804	
107-05-1	3-Chloro-1-propene	38.9072	
67-63-0	Isopropyl Alcohol	331.836	
75-09-2	Methylene Chloride	47.4578	
67-64-1	Acetone	246.522	
79-20-9	Methyl acetate	47.7866	
156-60-5	trans-1,2-Dichloroethene	45.3409	
110-54-3	Hexane	44.3159	
1634-04-4	Methyl t-Butyl Ether	47.0318	
75-65-0	tert.- Butyl Alcohol	293.368	
75-05-8	Acetonitrile	299.923	
108-20-3	Diisopropyl ether	49.3766	
126-99-8	Chloroprene	47.7884	
75-34-3	1,1-Dichloroethane	46.0352	
107-13-1	Acrylonitrile	243.144	
71-23-8	n-Propanol	542.301	
637-92-3	Ethyl tert-butyl ether	49.3547	
108-05-4	Vinyl acetate	44.9020	
156-59-2	cis-1,2-Dichloroethene	45.7703	
594-20-7	2,2-Dichloropropane	35.1598	
540-59-0	1,2-Dichloroethene, Total	91.1112	
74-97-5	Bromochloromethane	46.0563	
110-82-7	Cyclohexane	45.5602	
67-66-3	Chloroform	49.1857	
141-78-6	Ethyl acetate	51.5948	
96-33-3	Methyl acrylate	50.8347	
56-23-5	Carbon Tetrachloride	46.6262	
109-99-9	Tetrahydrofuran	258.350	
71-55-6	1,1,1-Trichloroethane	47.3195	

Data File: 316102480.D Page 9
Report Date: 25-Oct-2016 10:29

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1801
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
78-93-3	2-Butanone	254.573	
563-58-6	1,1-Dichloropropene	46.0482	
109-69-3	1-Chlorobutane	51.3855	
142-82-5	Heptane	43.8094	
107-12-0	Propionitrile	250.925	
71-43-2	Benzene	45.9812	
126-98-7	Methacrylonitrile	47.9500	
994-05-8	tert-amyl methyl Ether	48.6770	
78-83-1	Isobutyl alcohol	726.494	
107-06-2	1,2-Dichloroethane	45.9320	
75-85-4	tert-Amyl Alcohol	268.591	
107-39-1	Diisobutylene	52.4587	
79-01-6	Trichloroethene	43.8083	
108-87-2	Methyl cyclohexane	44.8020	
919-94-8	tert-Amyl Ethylether	50.0091	
74-95-3	Dibromomethane	46.6302	
78-87-5	1,2-Dichloropropane	47.4903	
75-27-4	Bromodichloromethane	47.9239	
80-62-6	Methyl methacrylate	52.7107	
123-91-1	1,4-Dioxane	2517.97	
110-75-8	2-Chloroethylvinyl ether	43.3983	
10061-01-5	cis-1,3-Dichloropropene	47.4055	
111-65-9	Octane	42.6346	
108-88-3	Toluene	46.3081	
107-14-2	Chloroacetonitrile	268.693	
79-46-9	2-Nitropropane	247.303	
513-88-2	1,1-Dichloro-2-propanone	248.633	
108-10-1	4-Methyl-2-Pentanone(MIBK)	268.312	
10061-02-6	trans-1,3-Dichloropropene	48.1721	
127-18-4	Tetrachloroethene	52.1798	
97-63-2	Ethyl methacrylate	52.6737	
79-00-5	1,1,2-Trichloroethane	45.7039	
124-48-1	Chlorodibromomethane	47.1613	
142-28-9	1,3-Dichloropropane	45.5083	
106-93-4	1,2-Dibromoethane	46.8712	
591-78-6	2-Hexanone	276.917	
544-10-5	1-Chlorohexane	47.0370	
100-41-4	Ethylbenzene	44.9741	
108-90-7	Chlorobenzene	43.2863	
630-20-6	1,1,1,2-Tetrachloroethane	47.7705	
108383/106423	mp-Xylene	91.6912	
542-75-6	1,3-Dichloropropene, Total	95.5776	

Data File: 316102480.D Page 10
Report Date: 25-Oct-2016 10:29

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1801
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
95-47-6	o-Xylene	47.7682	
100-42-5	Styrene	48.7807	
75-25-2	Bromoform	39.6537	
98-82-8	Isopropylbenzene	47.2391	
1330-20-7	TOTAL XYLENES	139.459	
103-65-1	n-Propylbenzene	47.9833	
108-86-1	Bromobenzene	43.9073	
79-34-5	1,1,2,2-Tetrachloroethane	46.4111	
108-67-8	1,3,5-Trimethylbenzene	48.9293	
95-49-8	o-Chlorotoluene	46.6857	
96-18-4	1,2,3-Trichloropropane	44.8027	
110-57-6	trans-1,4-Dichloro-2-butene	36.1748	
106-43-4	p-Chlorotoluene	46.5669	
98-06-6	tert-Butylbenzene	47.3931	
76-01-7	Pentachloroethane	43.9195	
95-63-6	1,2,4-Trimethylbenzene	49.4866	
135-98-8	sec-Butylbenzene	48.4686	
99-87-6	p-Isopropyltoluene	49.4169	
541-73-1	1,3-Dichlorobenzene	48.0636	
106-46-7	1,4-Dichlorobenzene	48.1247	
104-51-8	n-Butylbenzene	47.4542	
100-44-7	Benzyl Chloride	26.7826	
67-72-1	Hexachloroethane	44.0800	
95-50-1	1,2-Dichlorobenzene	47.8411	
96-12-8	1,2-Dibromo-3-chloropropane	47.7446	
98-95-3	Nitrobenzene	305.340	
87-68-3	Hexachlorobutadiene	47.1264	
120-82-1	1,2,4-Trichlorobenzene	45.8233	
91-20-3	Naphthalene	45.1577	
87-61-6	1,2,3-Trichlorobenzene	45.8649	
1868-53-7	Dibromofluoromethane	45.0770	
17060-07-0	1,2-Dichloroethane-d4	49.8107	
2037-26-5	Toluene-d8	48.5545	
460-00-4	4-Bromofluorobenzene	48.0752	

Data File: 316102480.D Page 11
Report Date: 25-Oct-2016 10:29

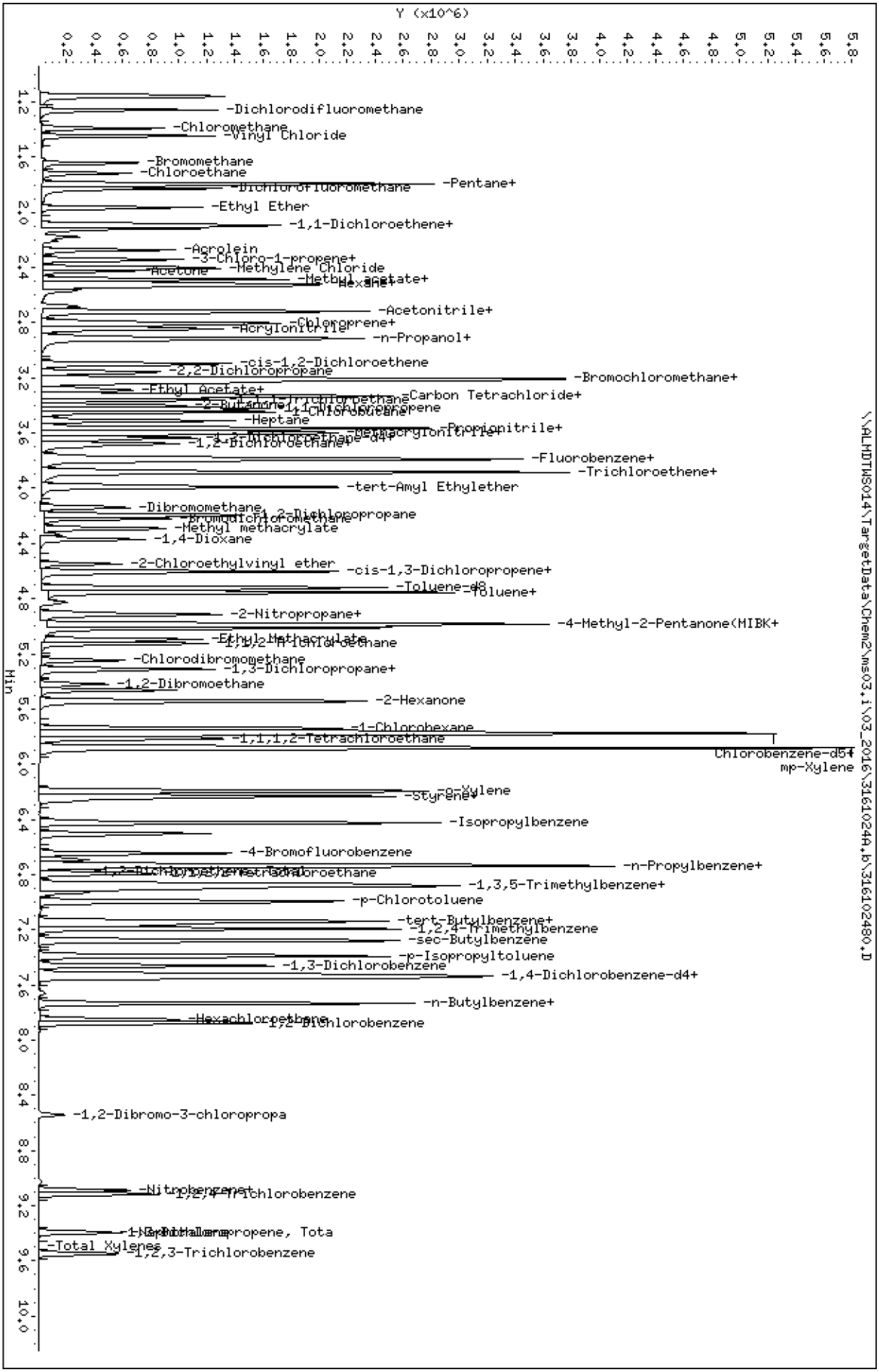
ALS Environmental Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1801
Operator : CJG Sample Date:
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:
Analysis Type: VOA Level: LOW
Inj Date: 25-OCT-2016 09:17

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	1.160	9.68444	_J__
2. 557-98-2	1-Propene, 2-chloro-	5.313	5.34259	NJ__
3. 123-86-4	Acetic acid, butyl ester	5.465	3.87790	NJ__
4. 628-63-7	Acetic acid, pentyl ester	6.502	4.80116	NJ__


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride
-Acetone
-Methyl acetate+
-Hexane
-Acetonitrile+
-Chloroprene+
-Acrylonitrile
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Carbon Tetrachloride+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK+
-Ethyl Methacrylate
-Chlorodibromomethane
-1,3-Dichloropropane+
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-o-Xylene
-Styrene+
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-Nitrobenzene+
-1,2,4-Trichlorobenzene
-Total Xylenes
-1,2,3-Trichlorobenzene
Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D
Date : 25-OCT-2016 09:17
Client ID:
Sample Info: 1801;;1;2;4;;;
Purge Volume: 5.0
Column phase: DB-VRX
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
Page 12

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 13

Date : 25-OCT-2016 09:17

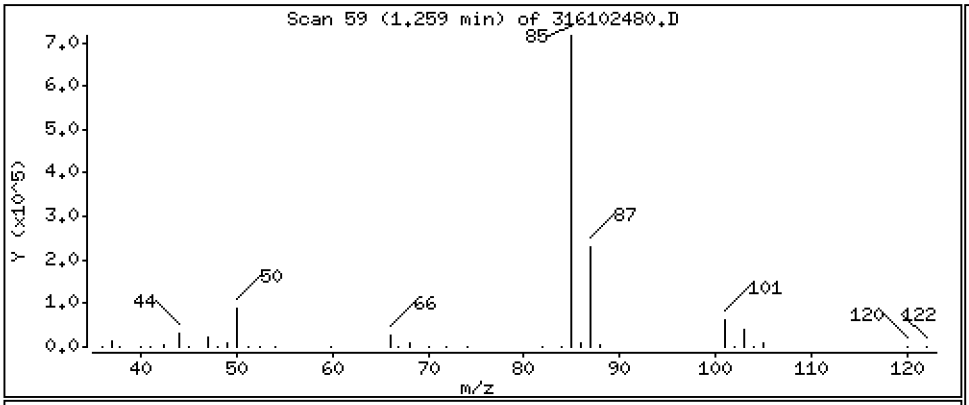
Client ID: Instrument: ms03.i

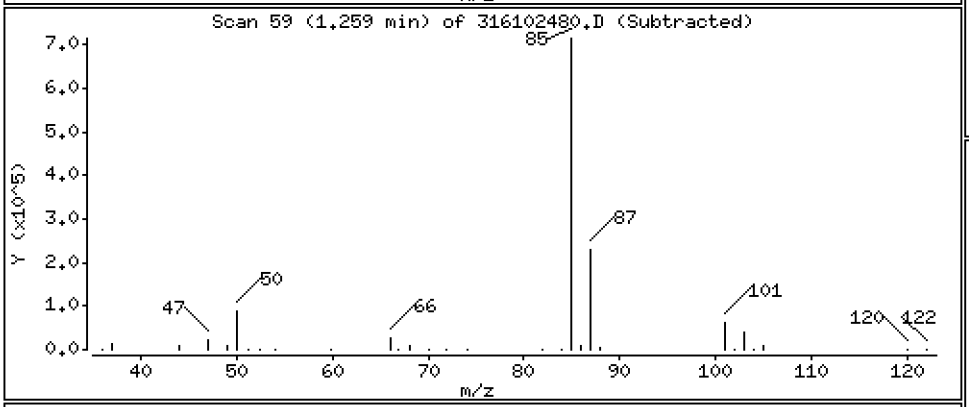
Sample Info: 1801;;1;2;4;;;

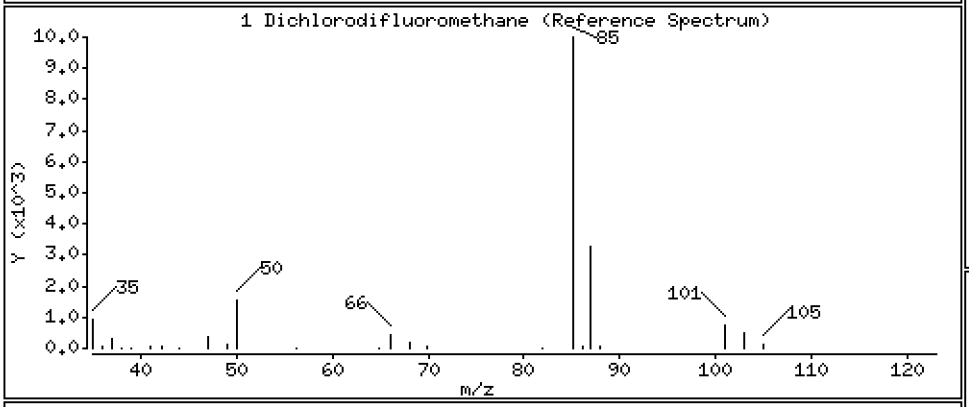
Purge Volume: 5.0 Operator: CJG

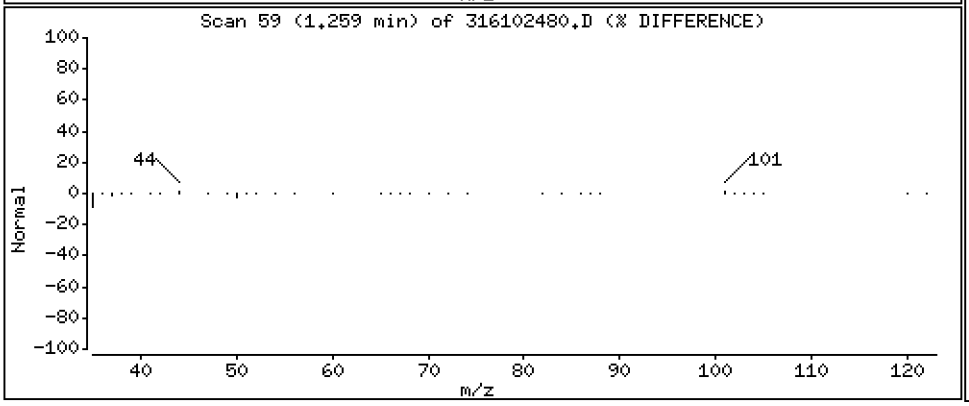
Column phase: DB-VRX Column diameter: 0.25

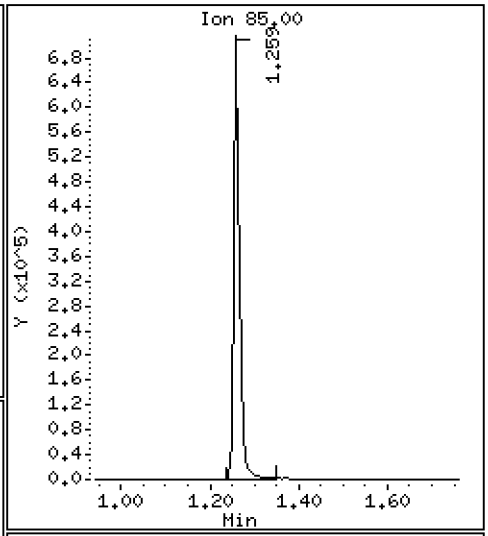
1 Dichlorodifluoromethane Concentration: 54.2182 ug/L

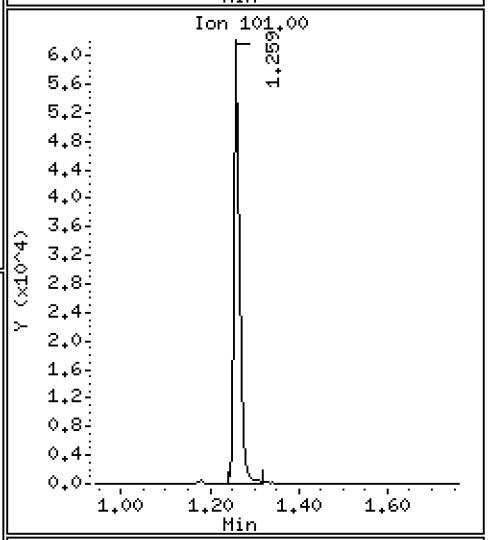


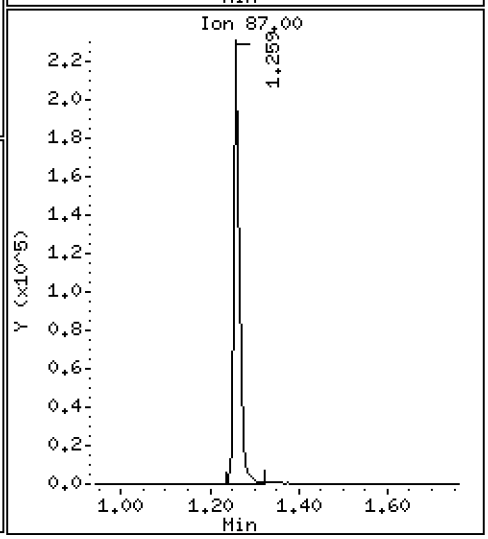












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 14

Date : 25-OCT-2016 09:17

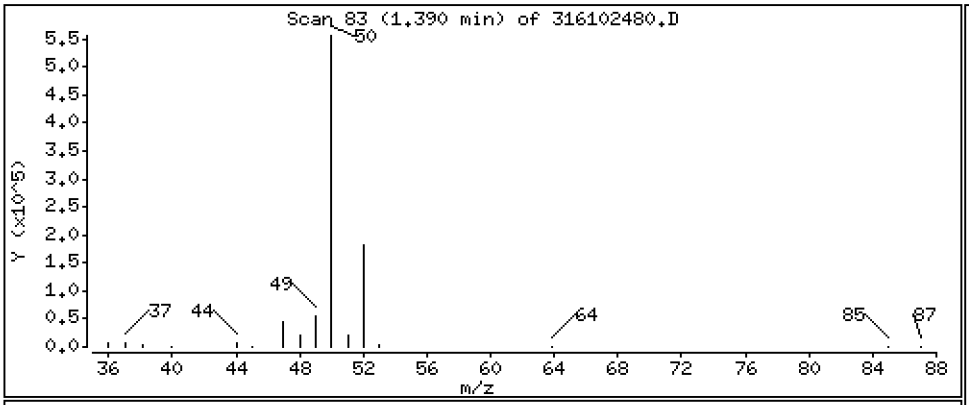
Client ID: Instrument: ms03.i

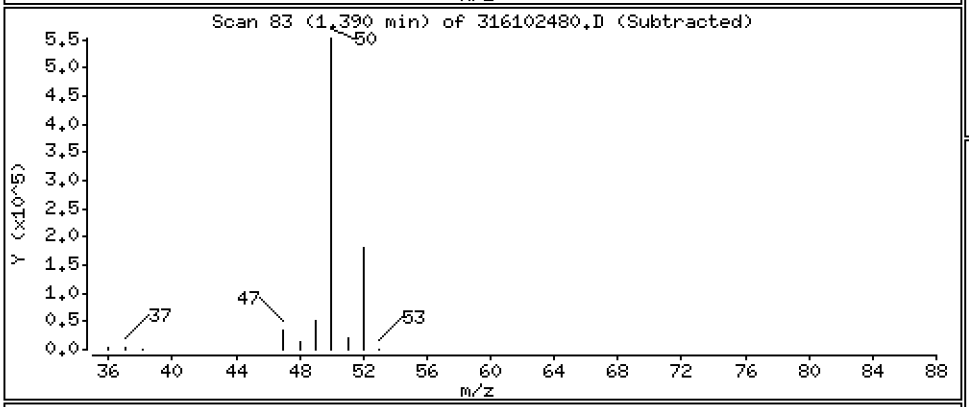
Sample Info: 1801;;1;2;4;;;

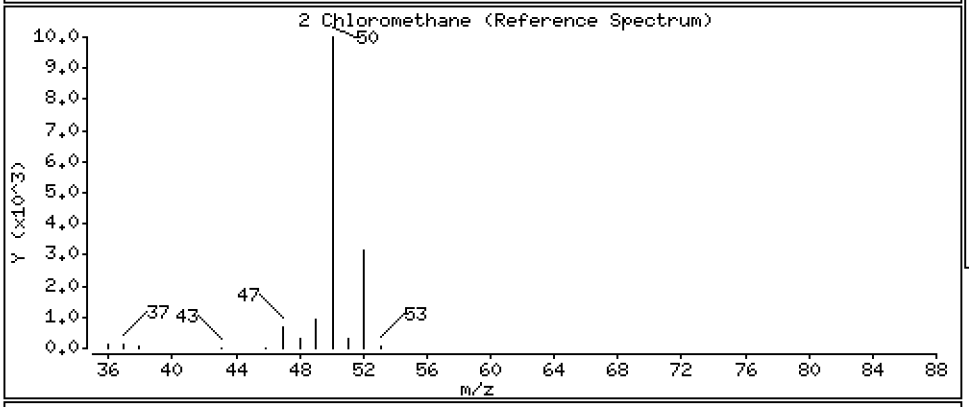
Purge Volume: 5.0 Operator: CJG

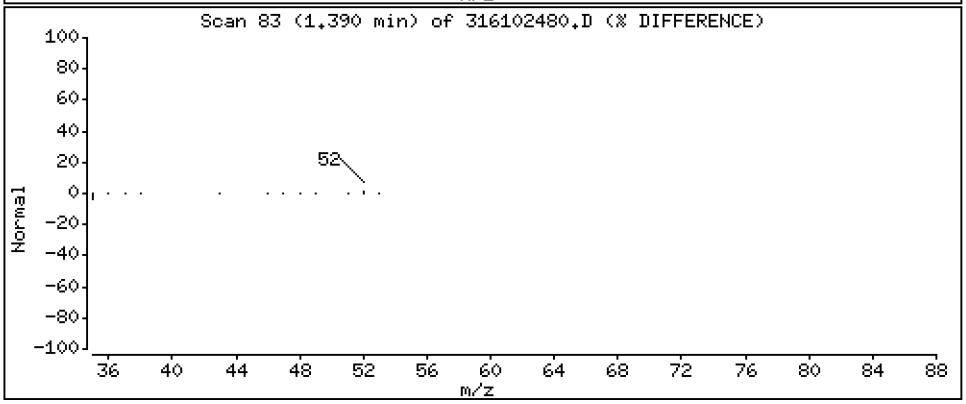
Column phase: DB-VRX Column diameter: 0.25

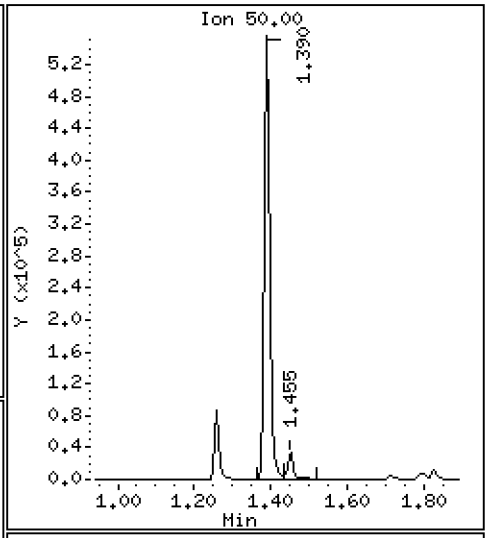
2 Chloromethane Concentration: 55.1837 ug/L

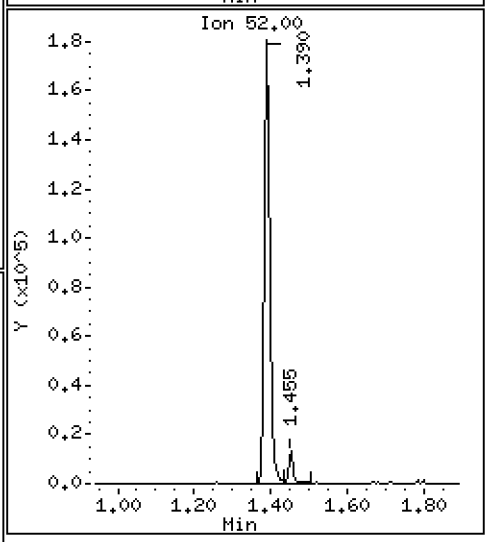












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 15

Date : 25-OCT-2016 09:17

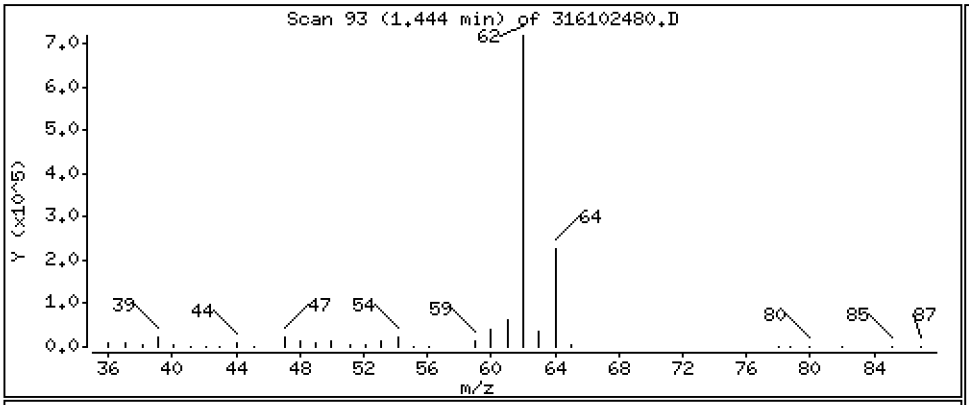
Client ID: Instrument: ms03.i

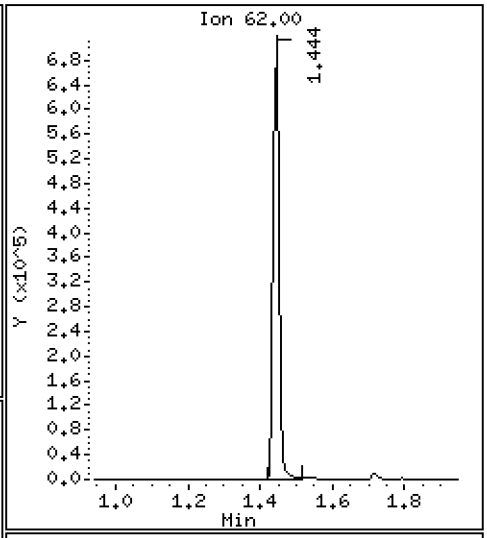
Sample Info: 1801;;1;2;4;;;

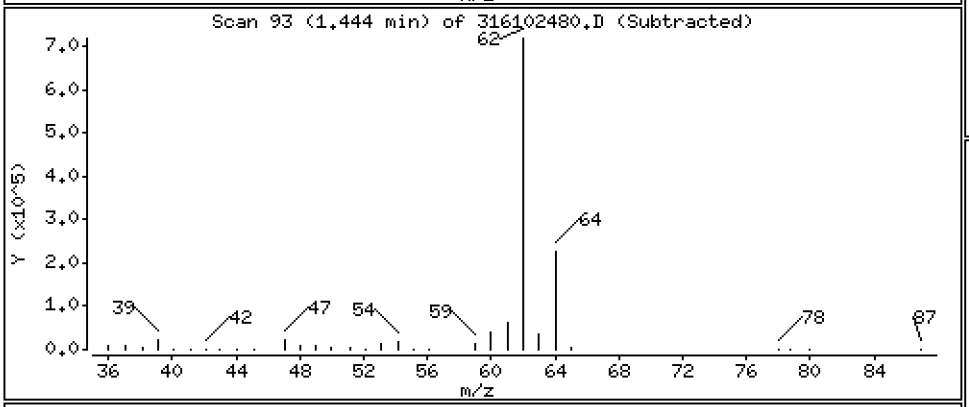
Purge Volume: 5.0 Operator: CJG

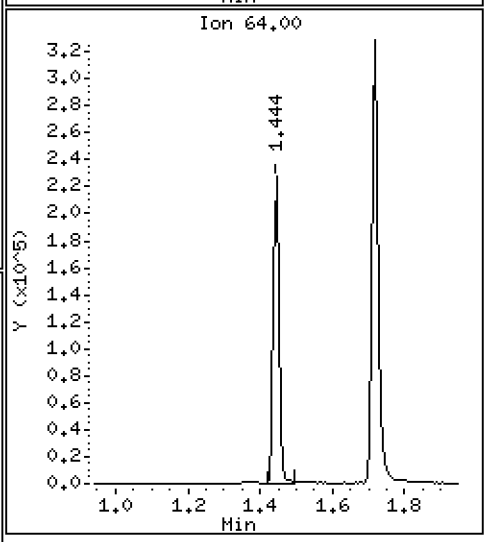
Column phase: DB-VRX Column diameter: 0.25

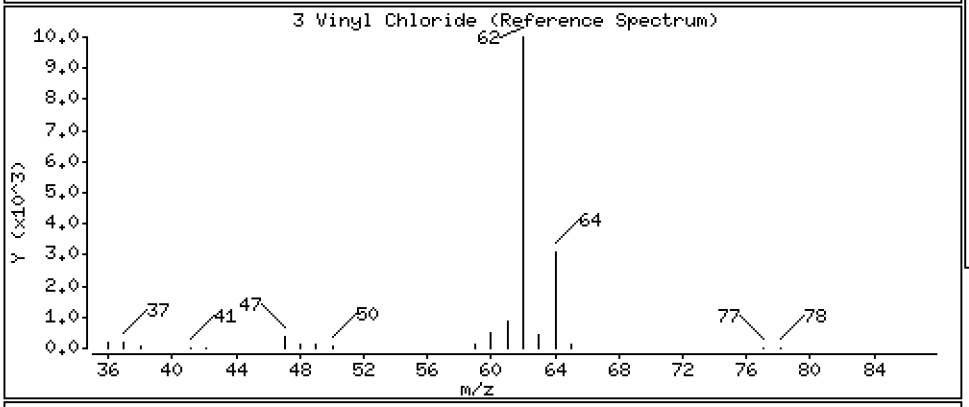
3 Vinyl Chloride Concentration: 54.0966 ug/L

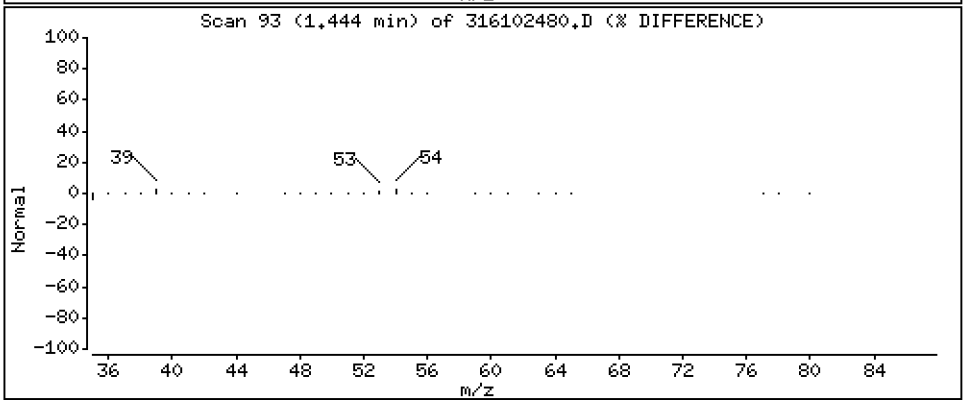












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 16

Date : 25-OCT-2016 09:17

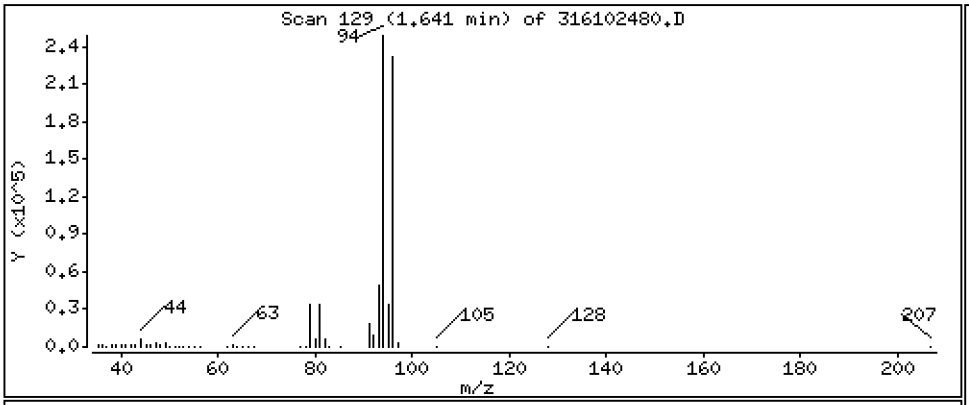
Client ID: Instrument: ms03.i

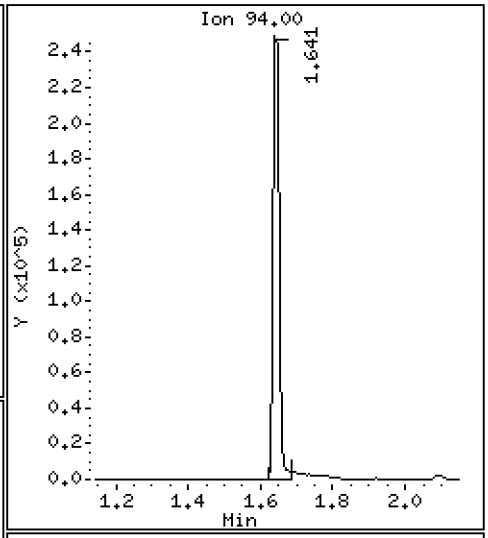
Sample Info: 1801;;1;2;4;;;

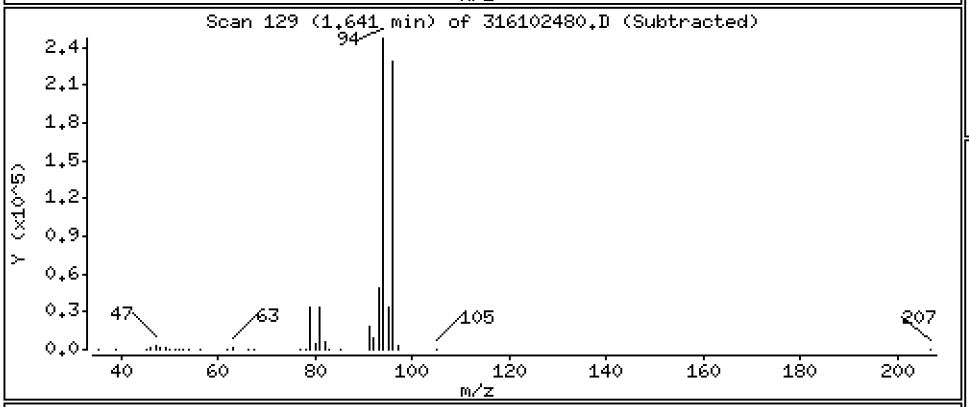
Purge Volume: 5.0 Operator: CJG

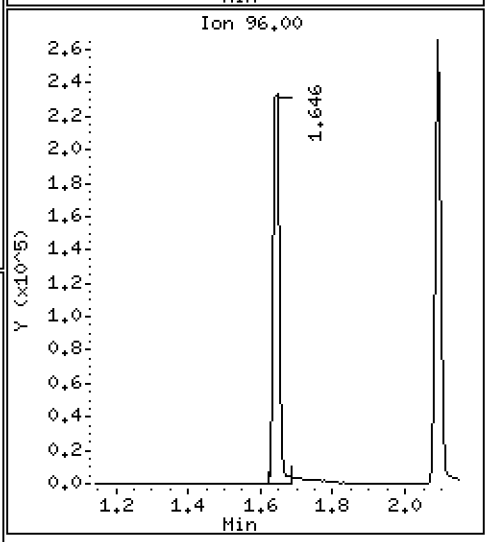
Column phase: DB-VRX Column diameter: 0.25

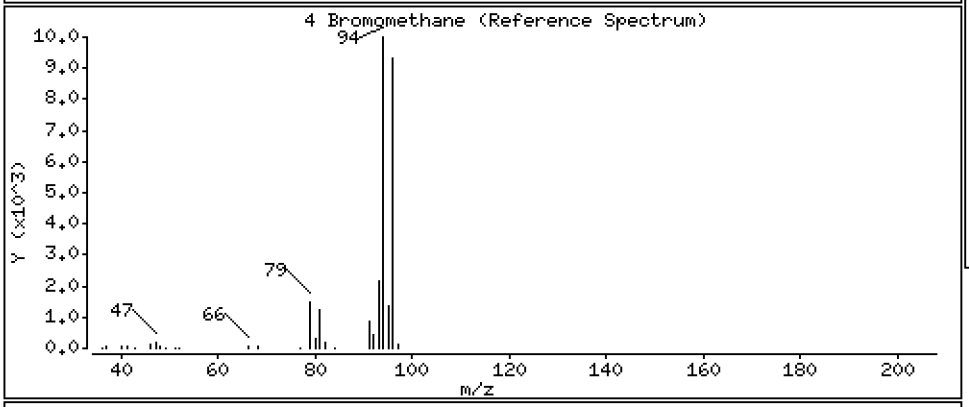
4 Bromomethane Concentration: 47.3514 ug/L

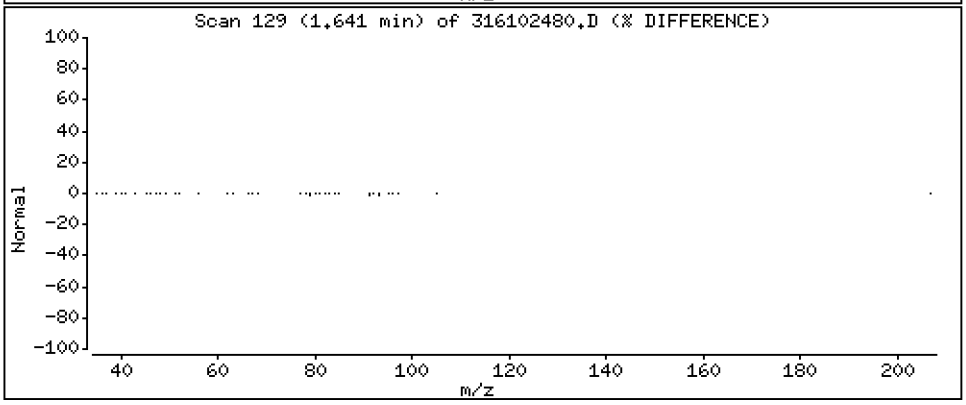












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 17

Date : 25-OCT-2016 09:17

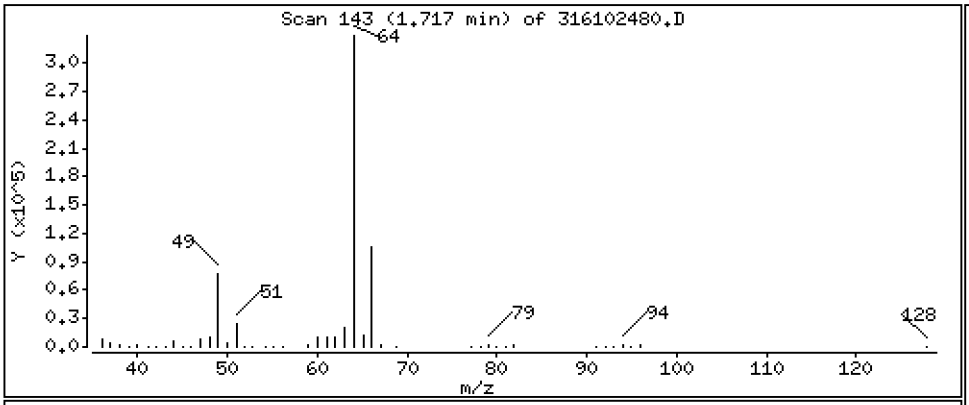
Client ID: Instrument: ms03.i

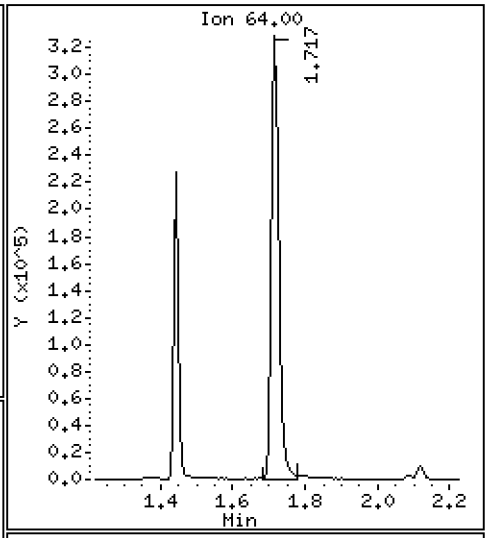
Sample Info: 1801;;1;2;4;;;

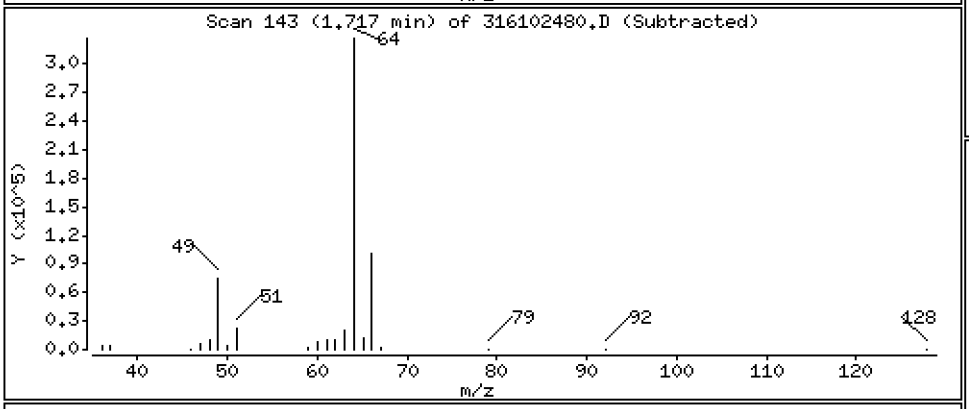
Purge Volume: 5.0 Operator: CJG

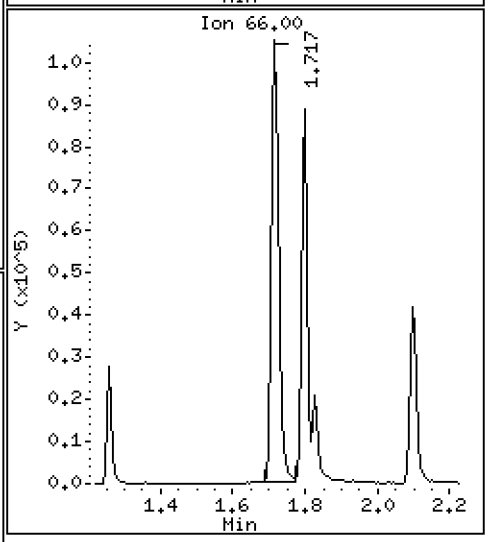
Column phase: DB-VRX Column diameter: 0.25

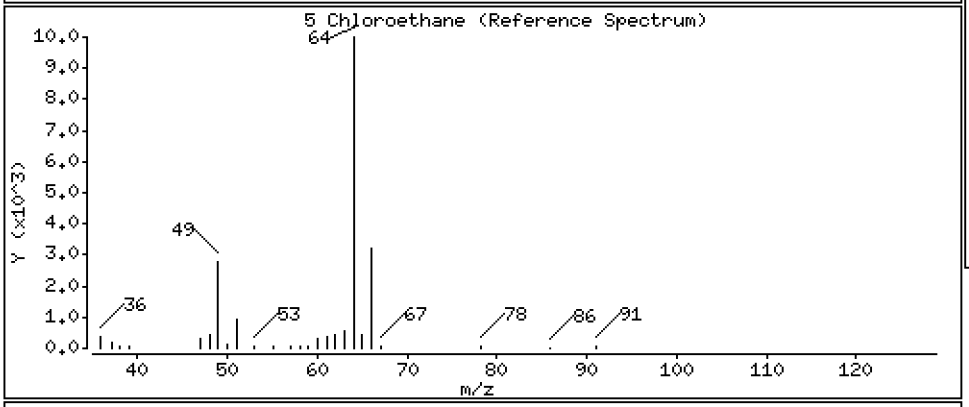
5 Chloroethane Concentration: 53.8102 ug/L

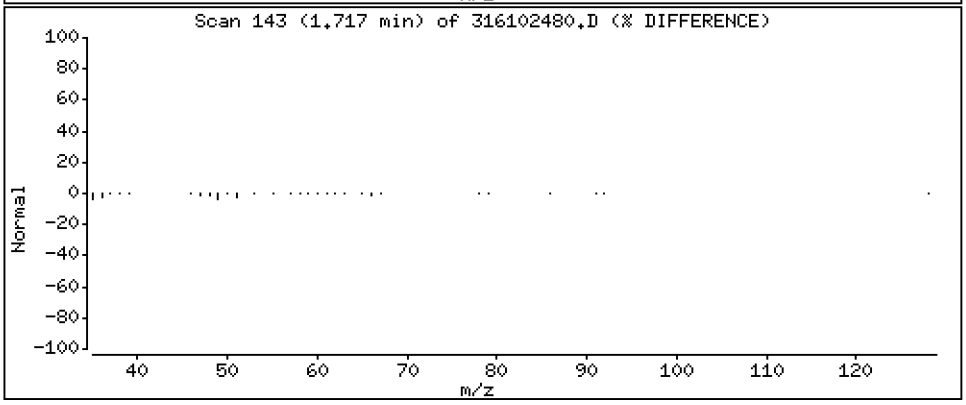












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 18

Date : 25-OCT-2016 09:17

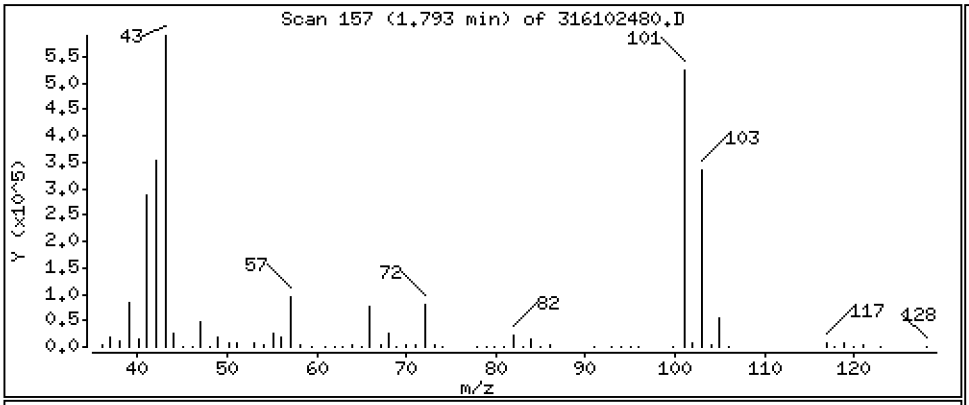
Client ID: Instrument: ms03.i

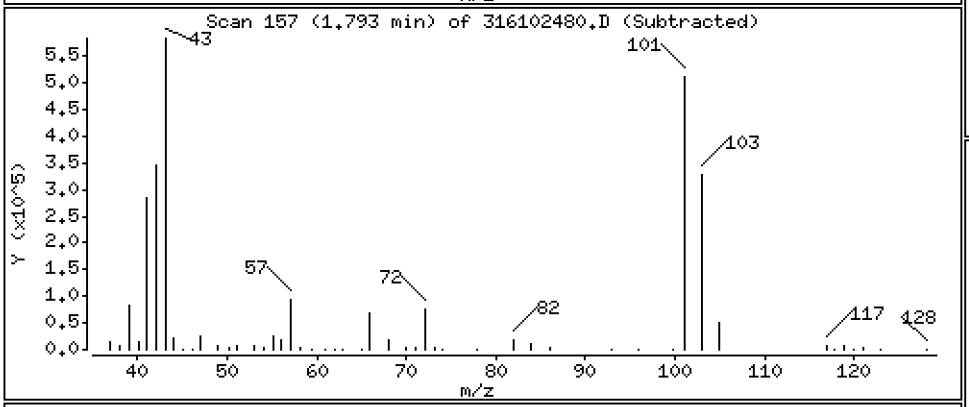
Sample Info: 1801;;1;2;4;;;

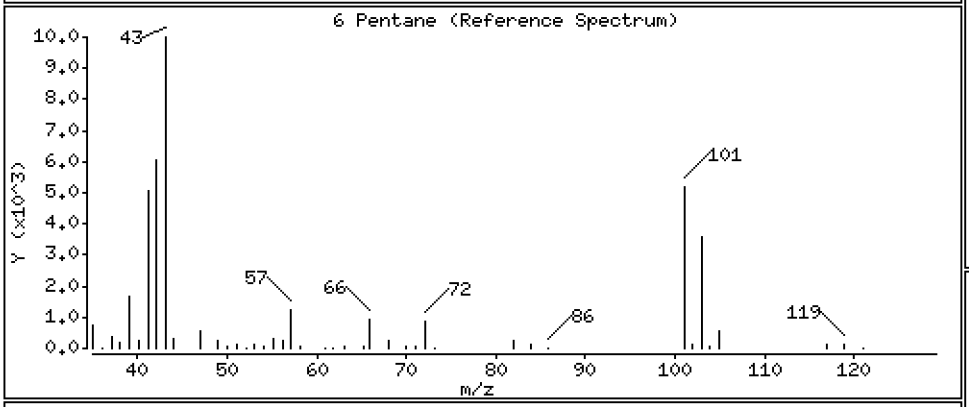
Purge Volume: 5.0 Operator: CJG

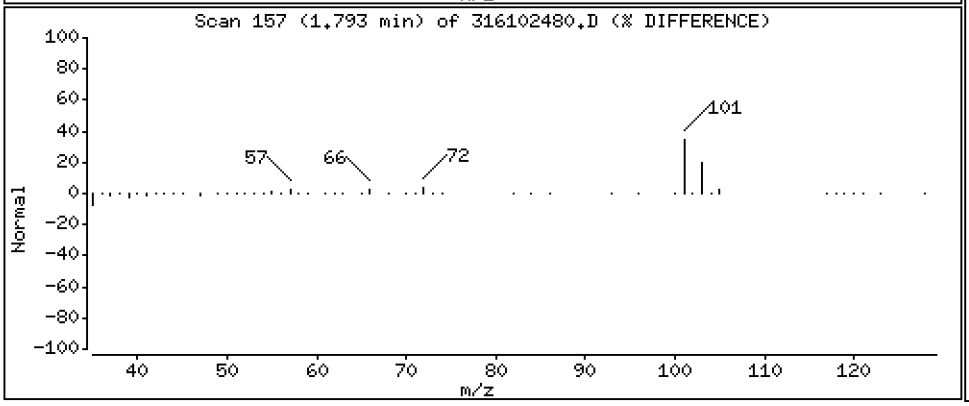
Column phase: DB-VRX Column diameter: 0.25

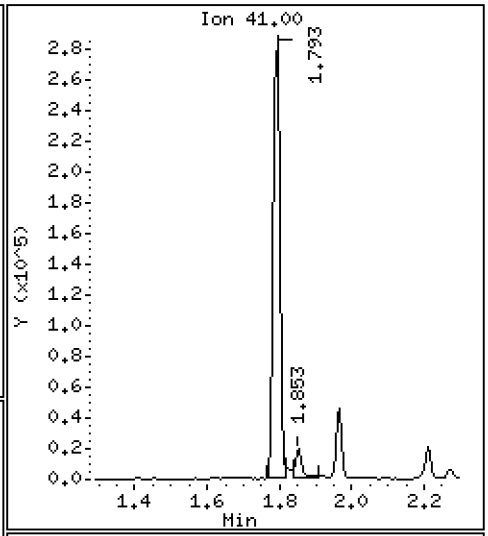
6 Pentane Concentration: 46.1610 ug/L

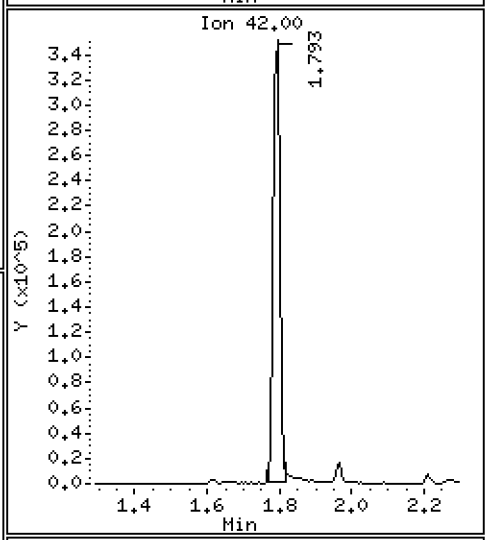


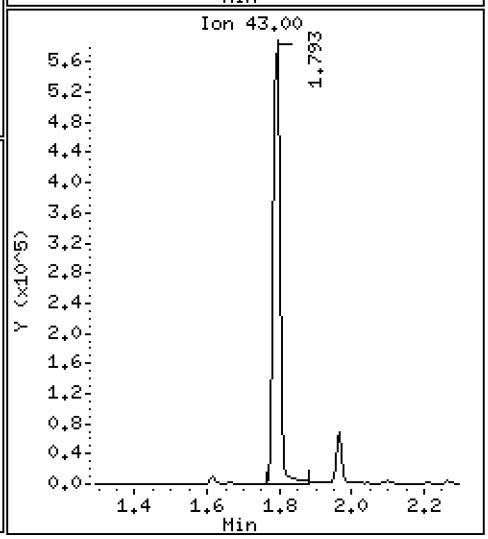












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 19

Date : 25-OCT-2016 09:17

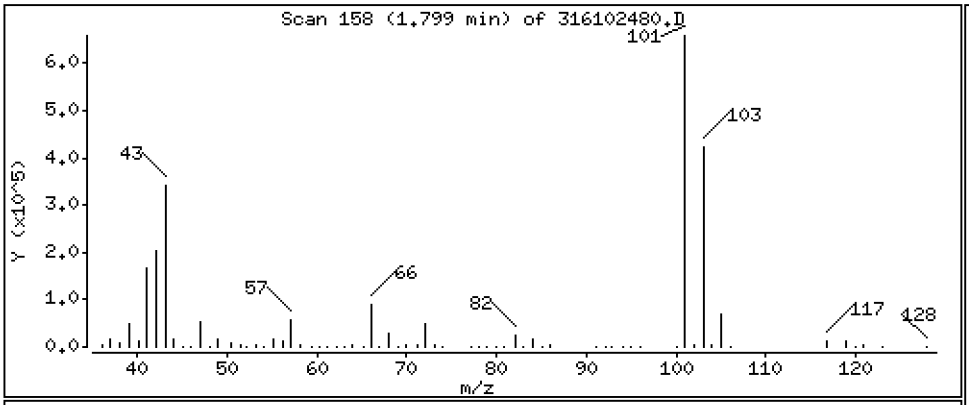
Client ID: Instrument: ms03.i

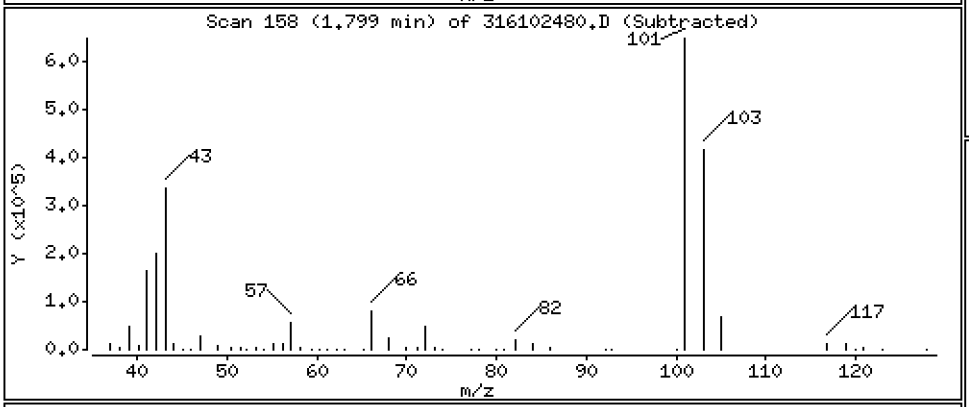
Sample Info: 1801;;1;2;4;;;

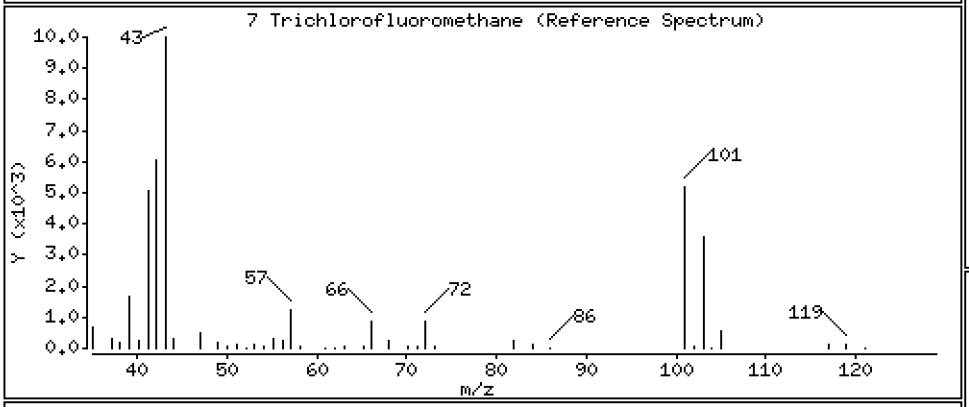
Purge Volume: 5.0 Operator: CJG

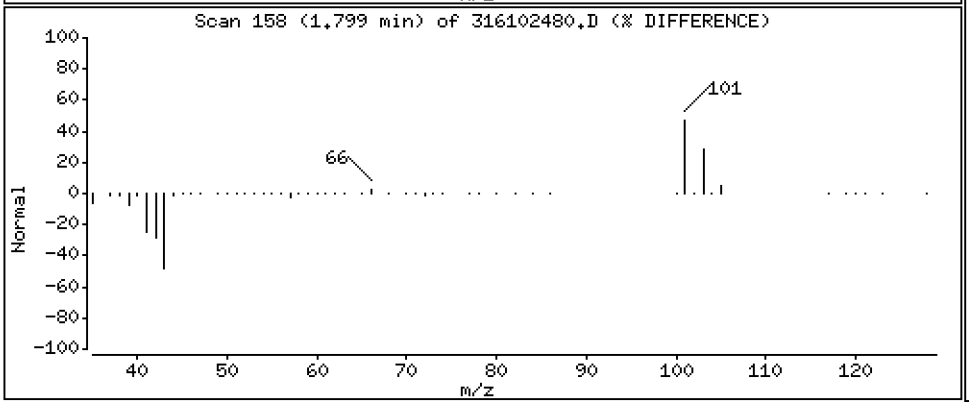
Column phase: DB-VRX Column diameter: 0.25

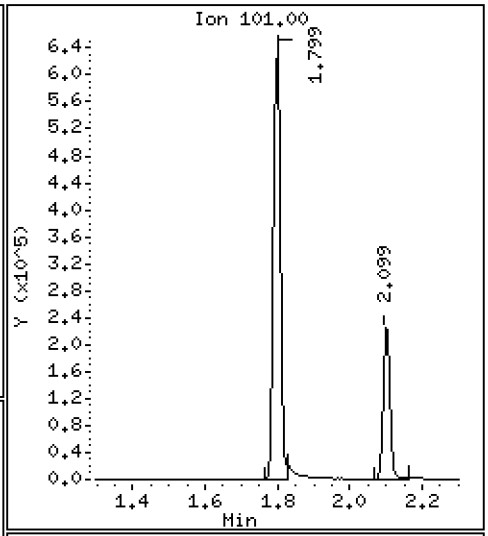
7 Trichlorofluoromethane Concentration: 52.0044 ug/L

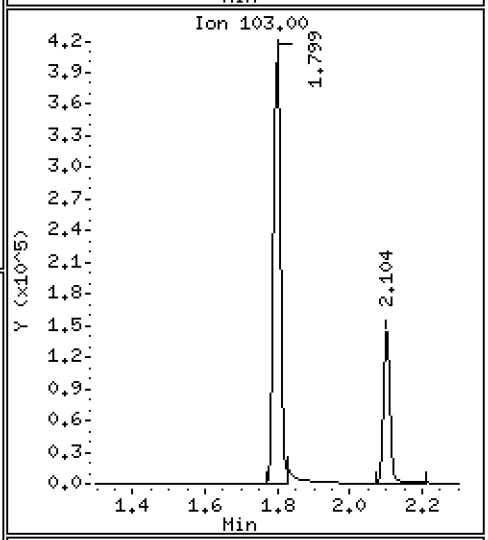


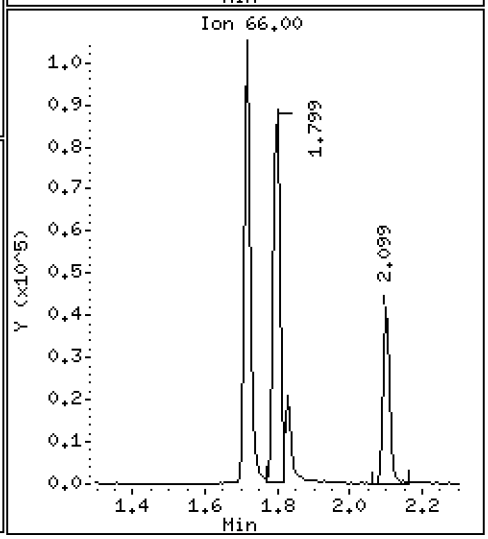












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 20

Date : 25-OCT-2016 09:17

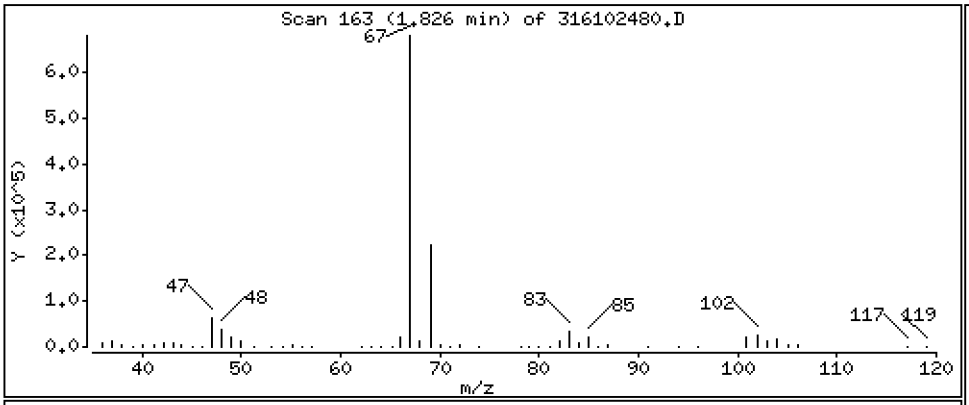
Client ID: Instrument: ms03.i

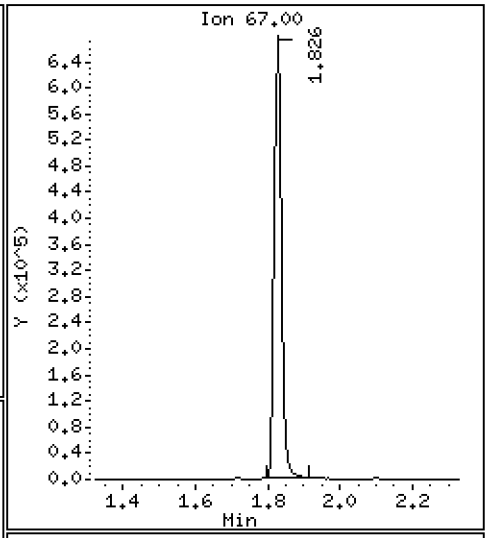
Sample Info: 1801;;1;2;4;;;

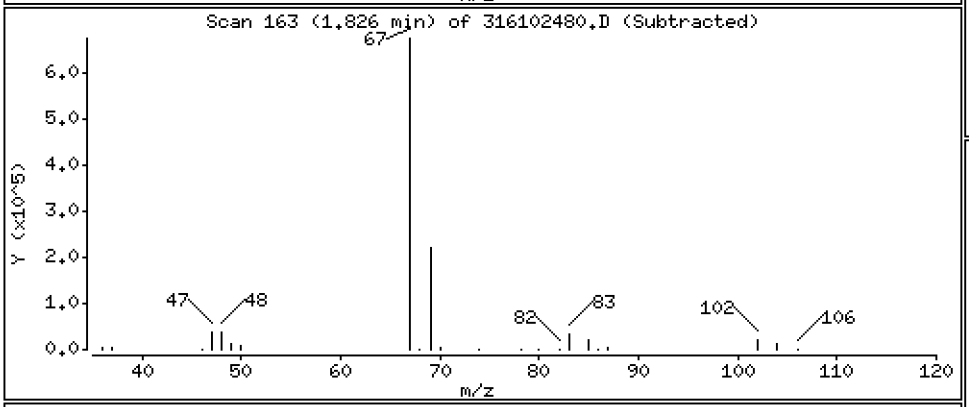
Purge Volume: 5.0 Operator: CJG

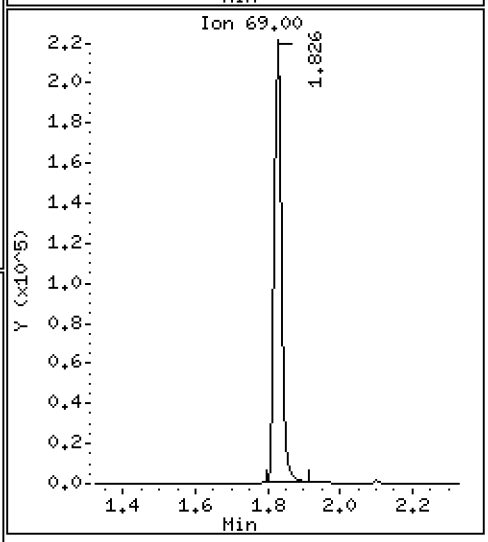
Column phase: DB-VRX Column diameter: 0.25

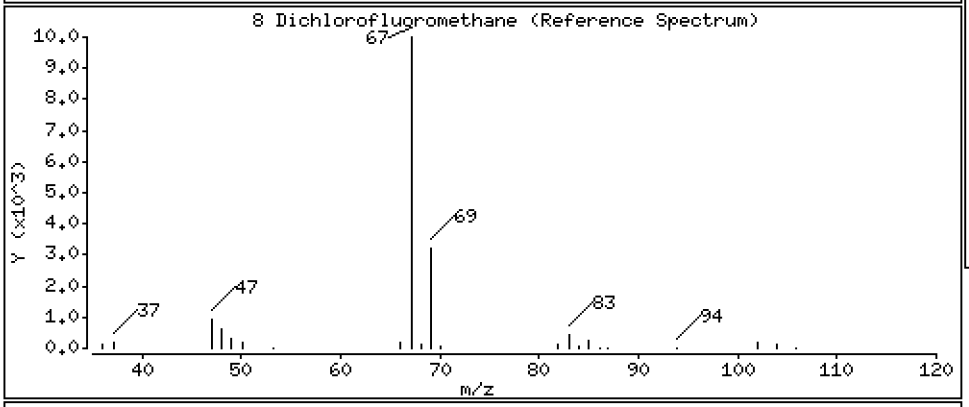
8 Dichlorofluoromethane Concentration: 44.2184 ug/L

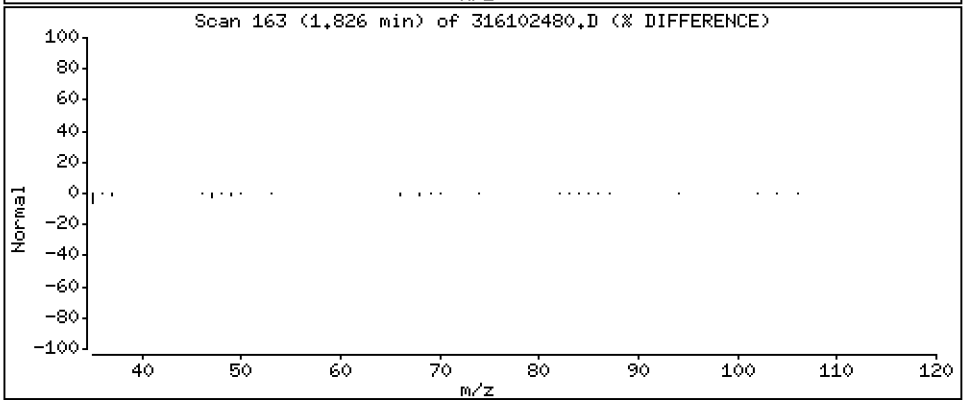












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 21

Date : 25-OCT-2016 09:17

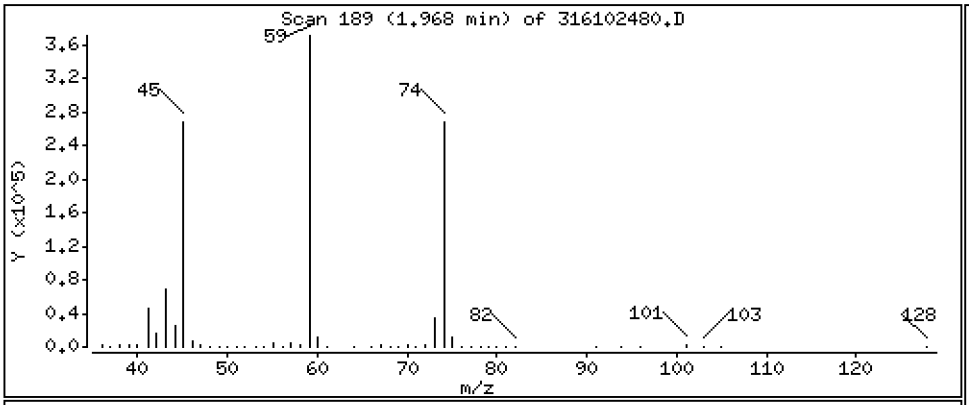
Client ID: Instrument: ms03.i

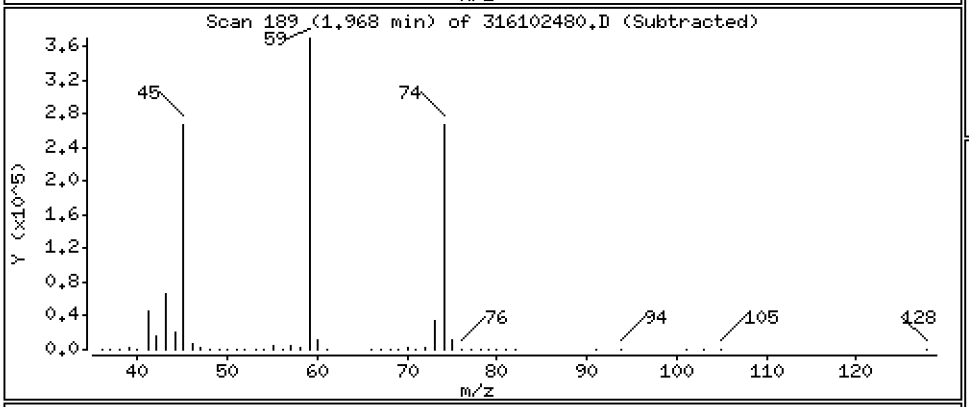
Sample Info: 1801;;1;2;4;;;

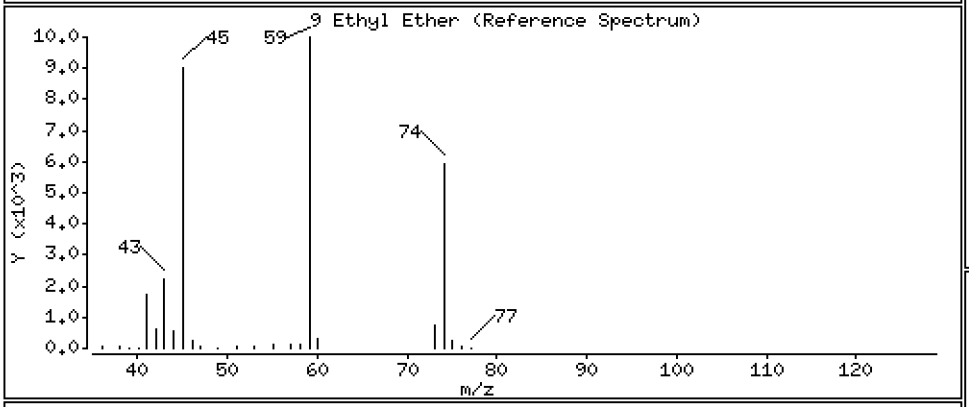
Purge Volume: 5.0 Operator: CJG

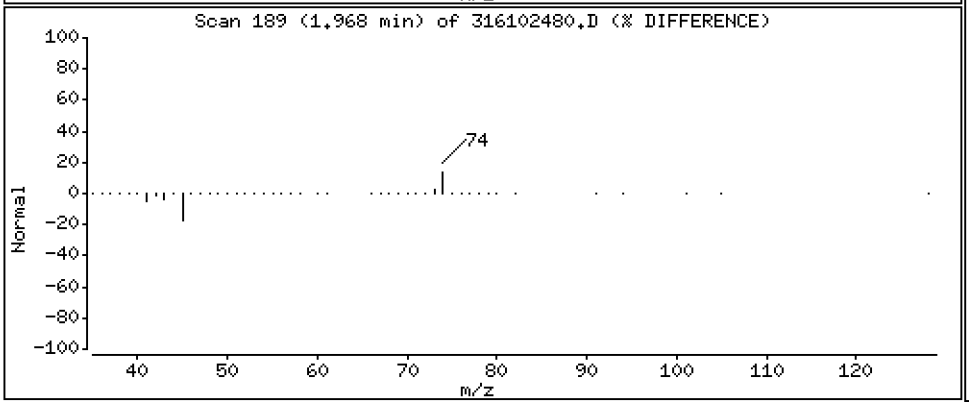
Column phase: DB-VRX Column diameter: 0.25

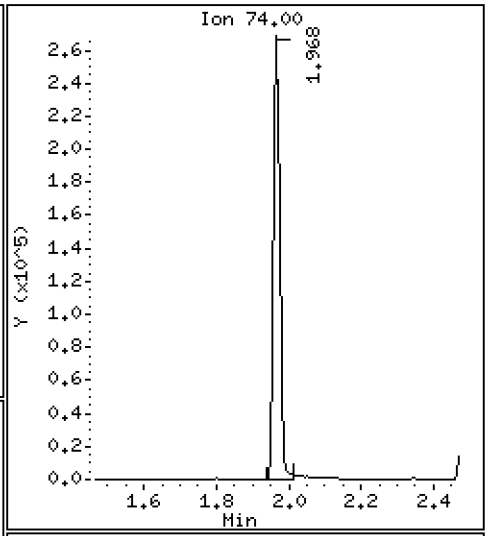
9 Ethyl Ether Concentration: 45.0271 ug/L

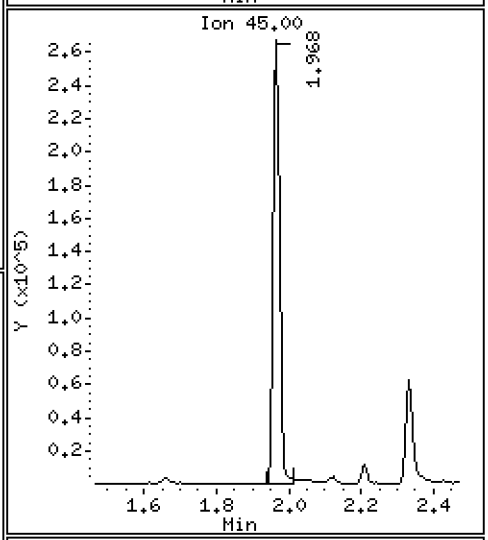


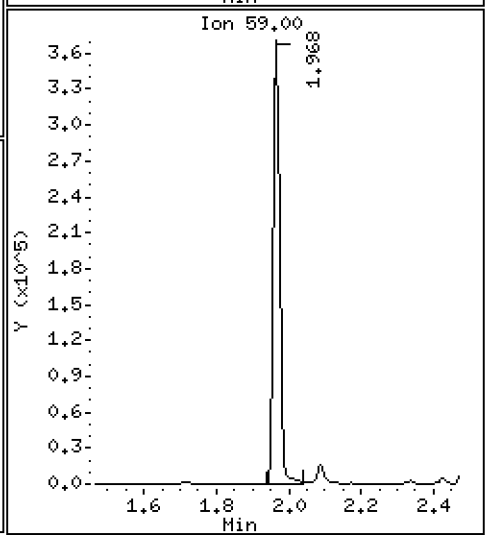












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 22

Date : 25-OCT-2016 09:17

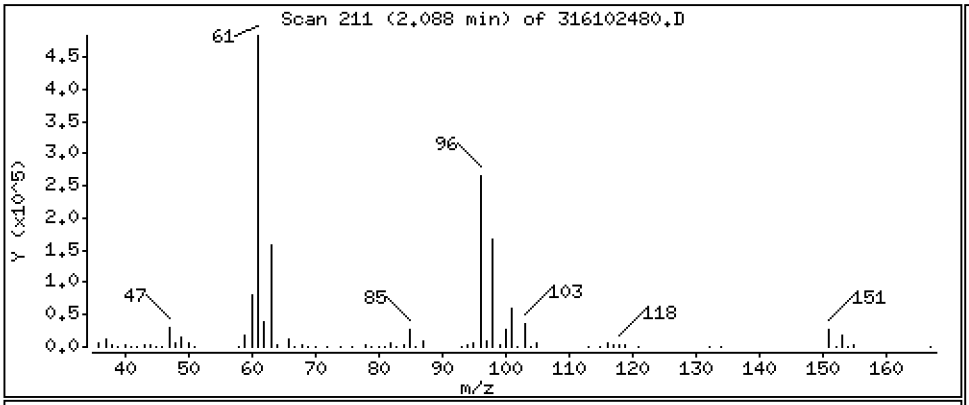
Client ID: Instrument: ms03.i

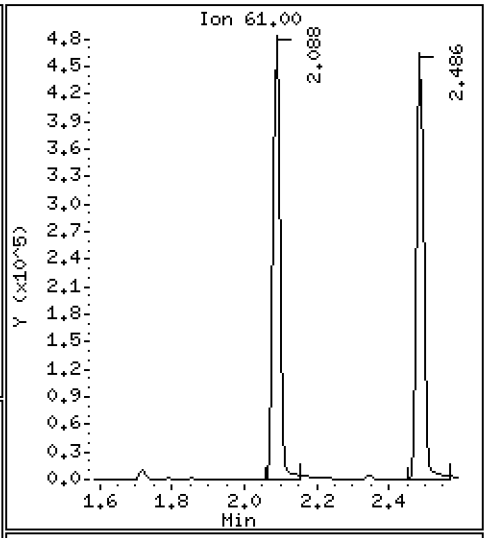
Sample Info: 1801;;1;2;4;;;

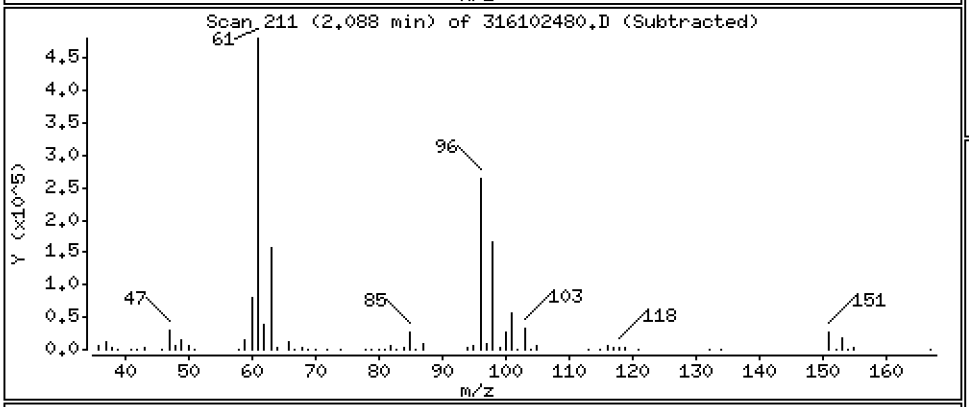
Purge Volume: 5.0 Operator: CJG

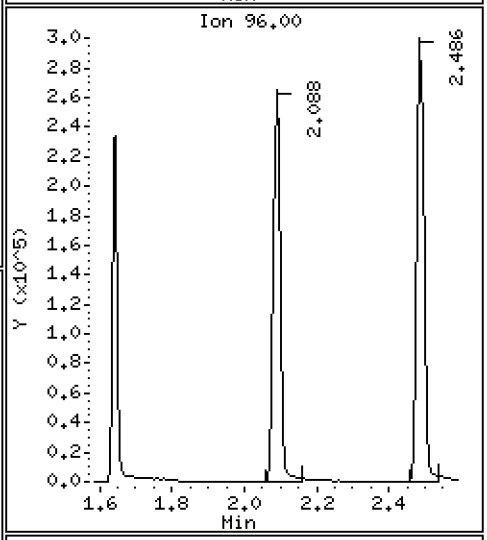
Column phase: DB-VRX Column diameter: 0.25

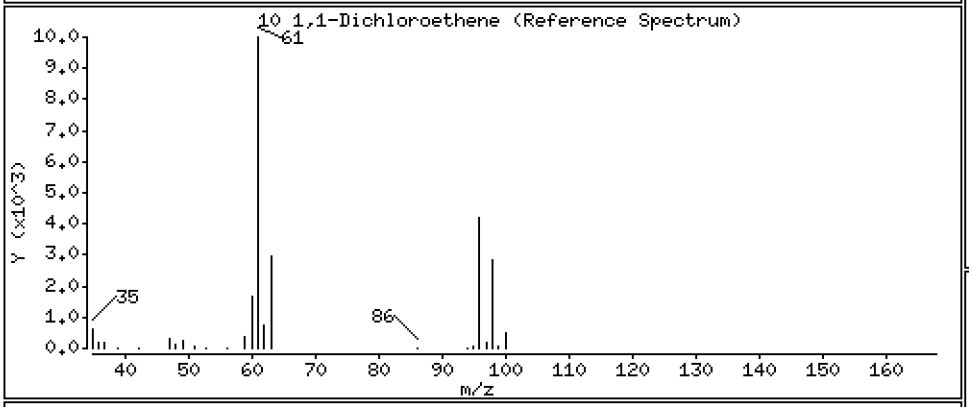
10 1,1-Dichloroethene Concentration: 43.5434 ug/L

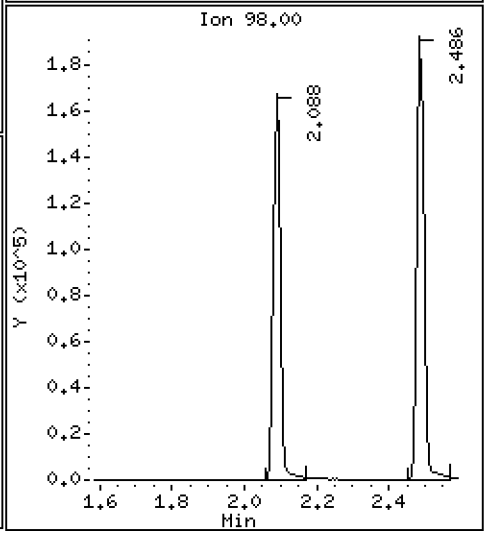


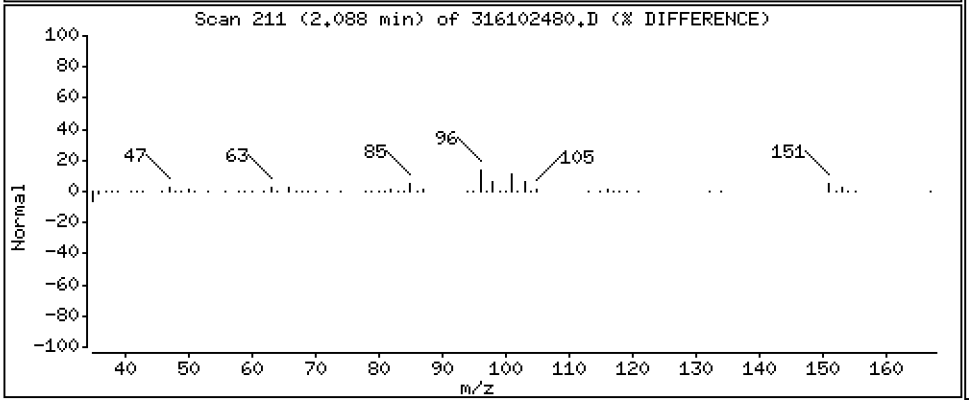












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 23

Date : 25-OCT-2016 09:17

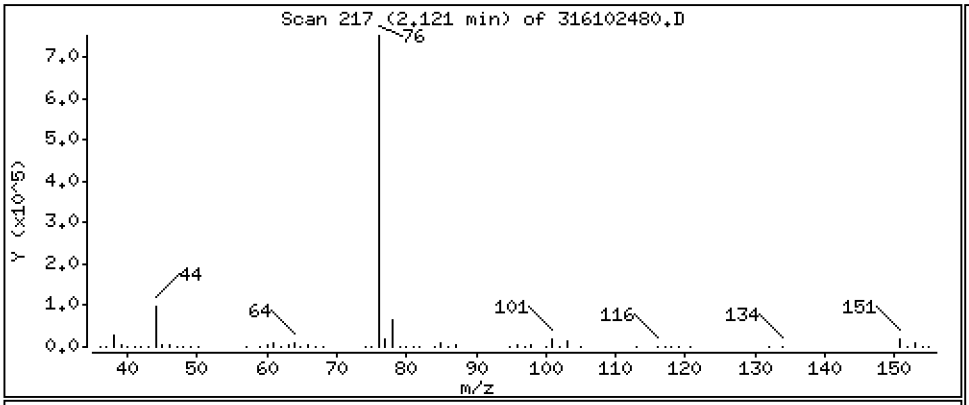
Client ID: Instrument: ms03.i

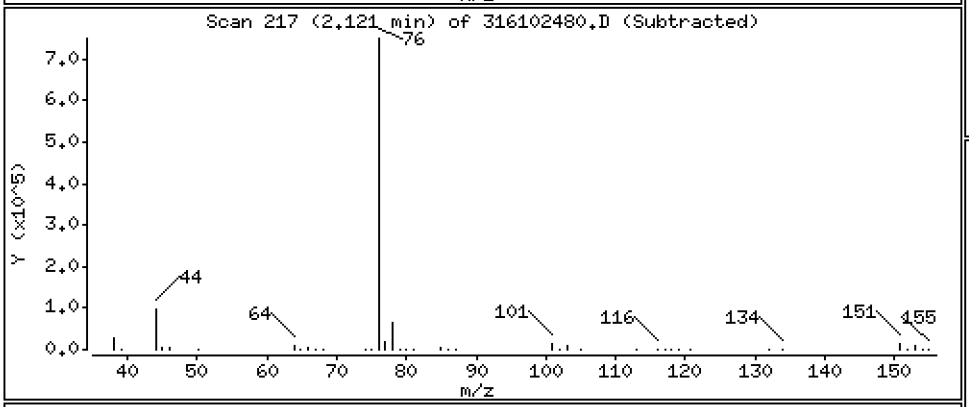
Sample Info: 1801;;1;2;4;;;

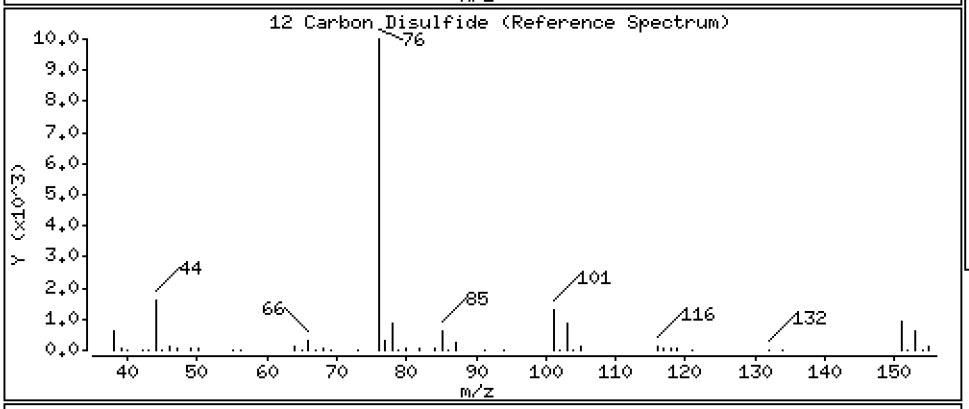
Purge Volume: 5.0 Operator: CJG

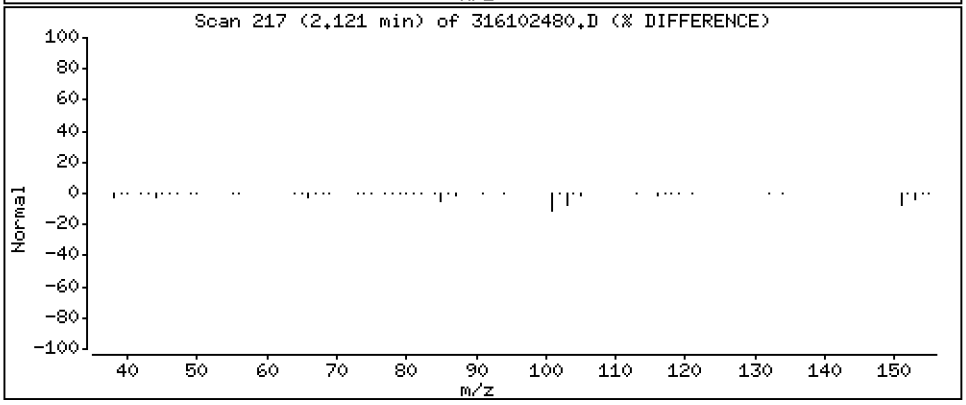
Column phase: DB-VRX Column diameter: 0.25

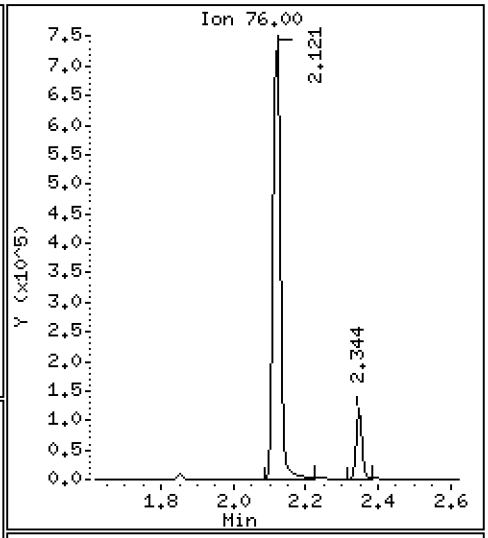
12 Carbon Disulfide Concentration: 41.1974 ug/L

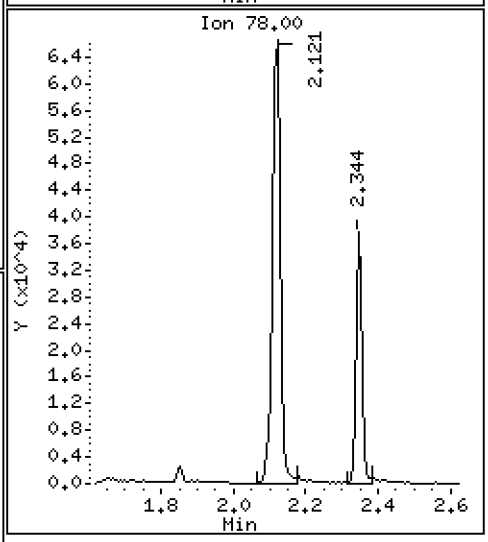












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 24

Date : 25-OCT-2016 09:17

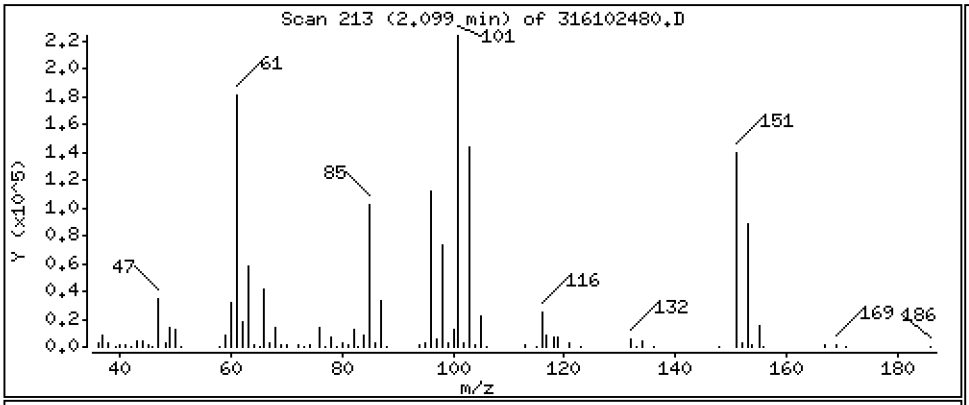
Client ID: Instrument: ms03.i

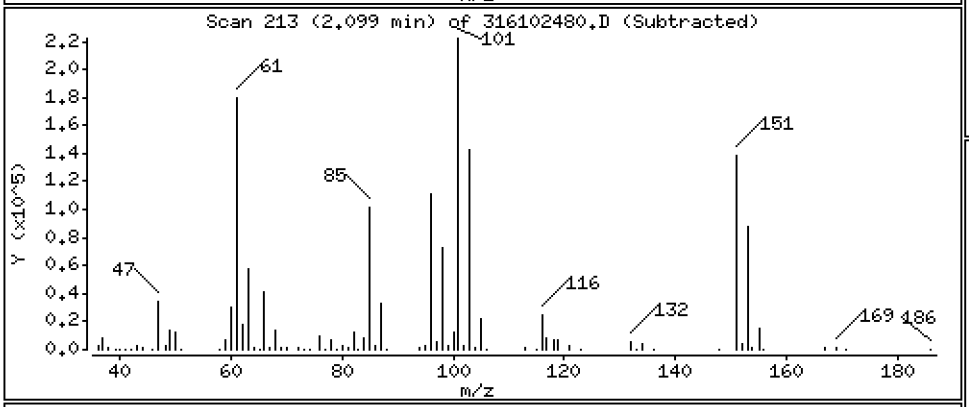
Sample Info: 1801;;1;2;4;;;

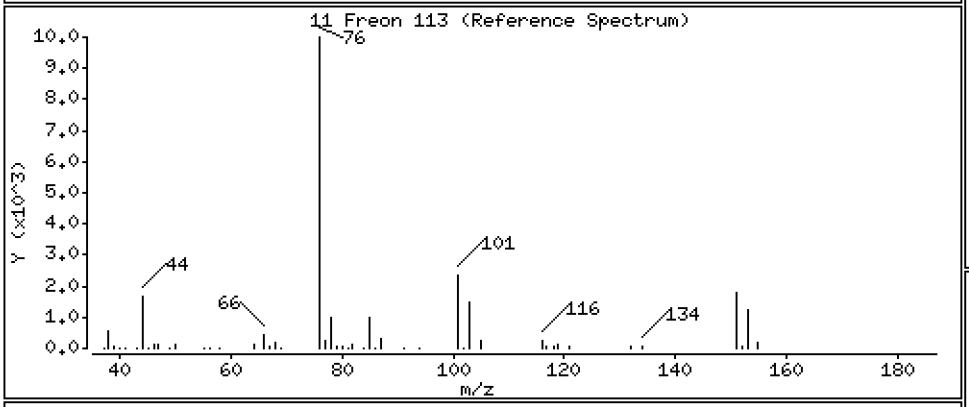
Purge Volume: 5.0 Operator: CJG

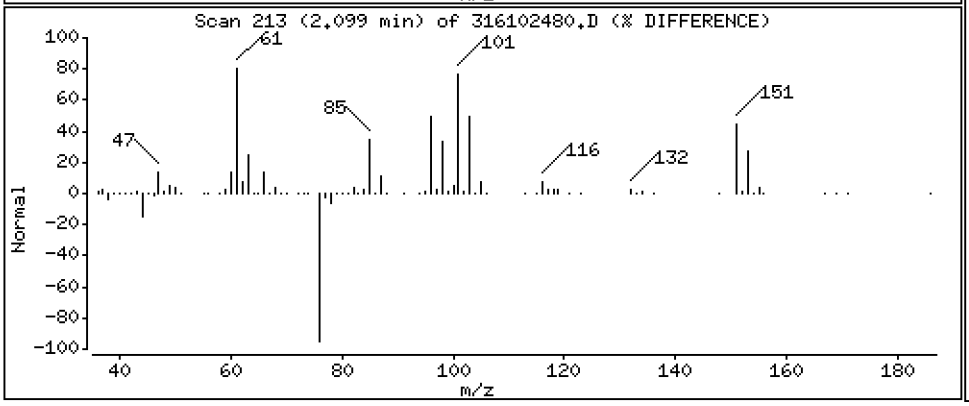
Column phase: DB-VRX Column diameter: 0.25

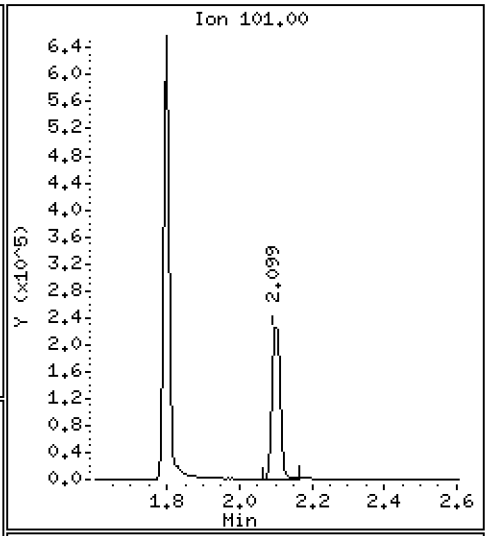
11 Freon 113 Concentration: 42.1057 ug/L

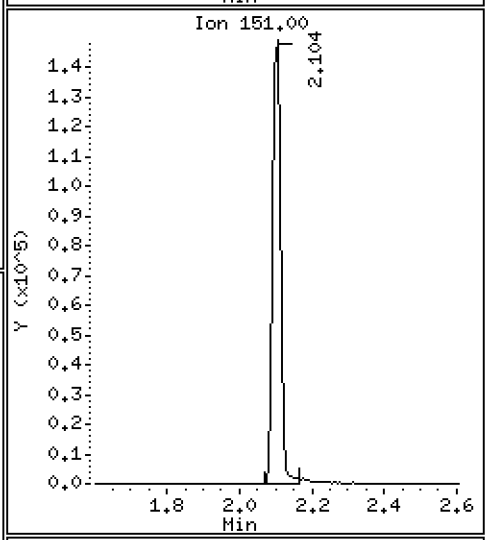


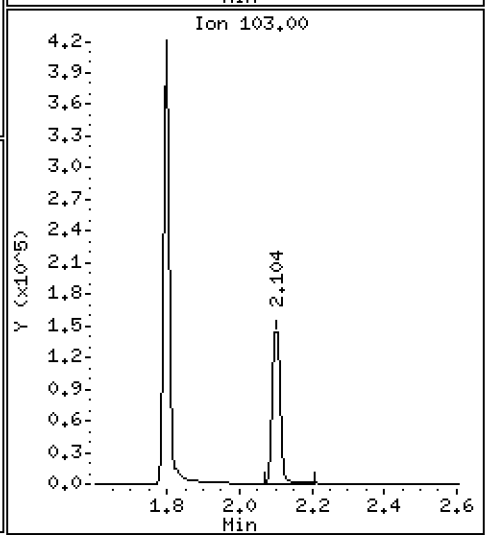












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 25

Date : 25-OCT-2016 09:17

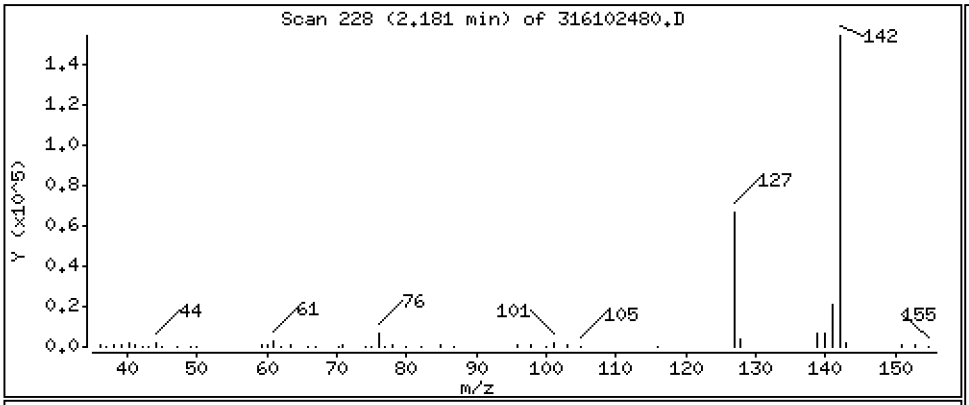
Client ID: Instrument: ms03.i

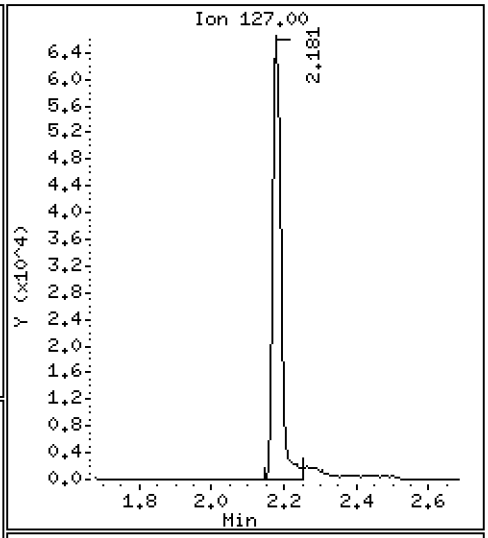
Sample Info: 1801;;1;2;4;;;

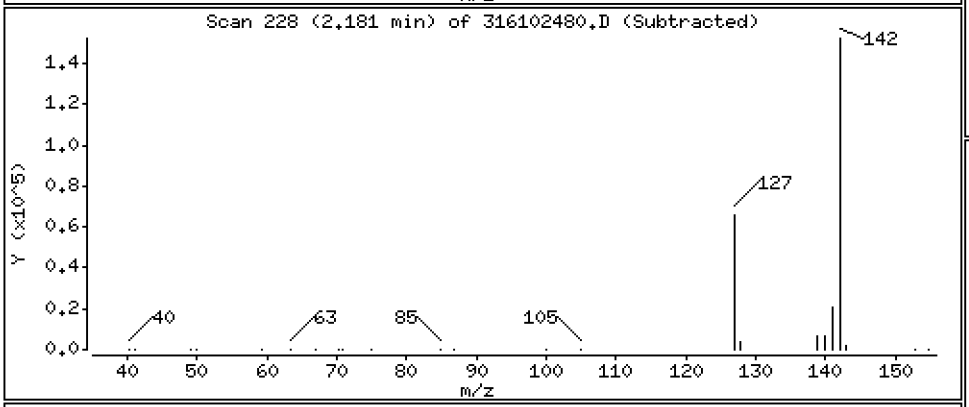
Purge Volume: 5.0 Operator: CJG

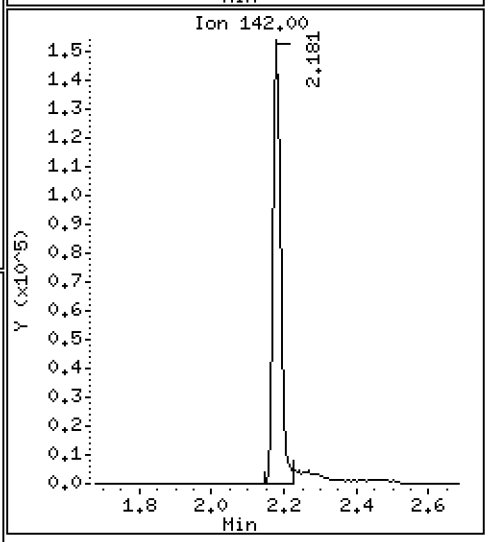
Column phase: DB-VRX Column diameter: 0.25

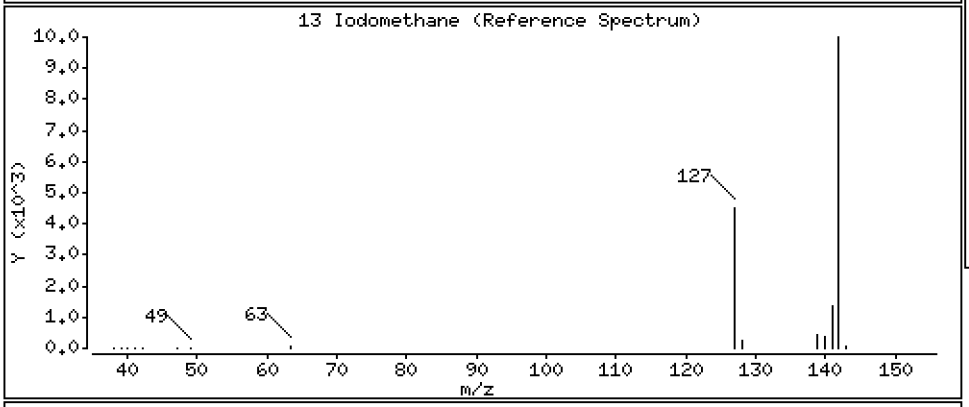
13 Iodomethane Concentration: 47.4847 ug/L

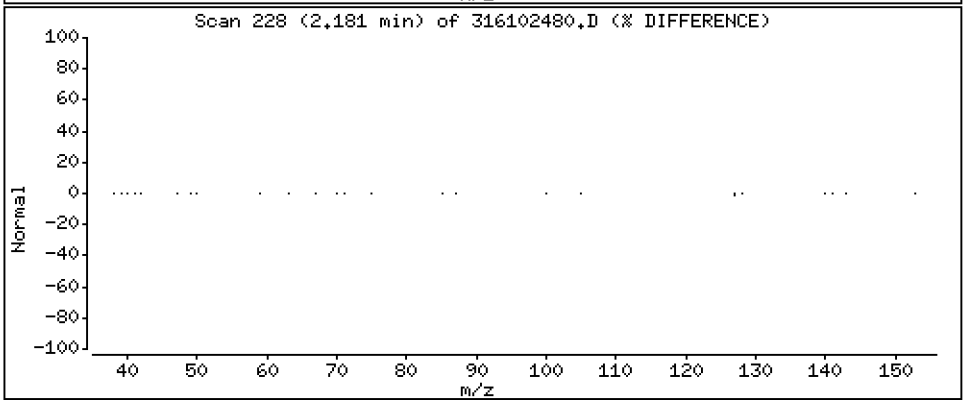












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 26

Date : 25-OCT-2016 09:17

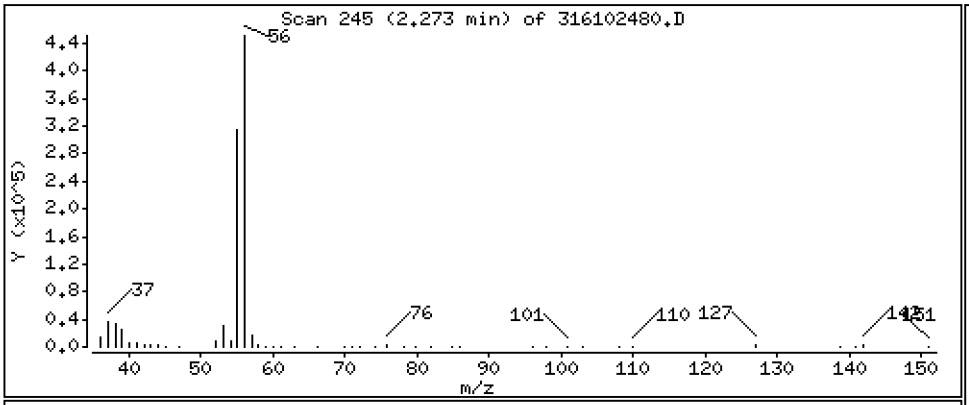
Client ID: Instrument: ms03.i

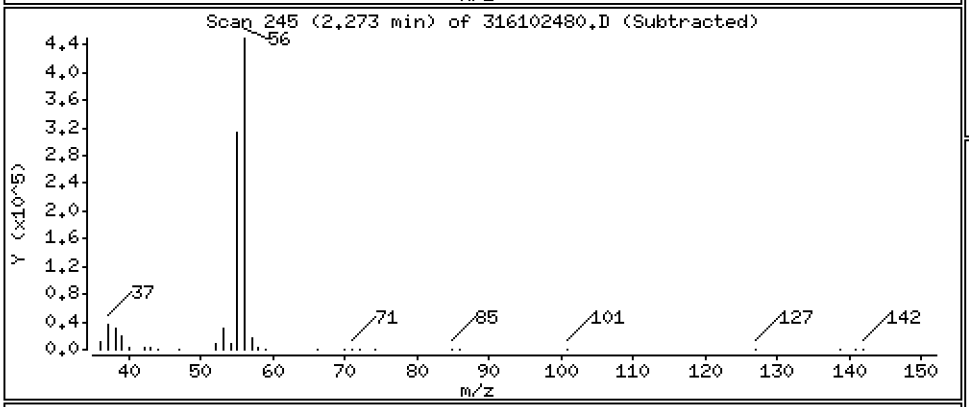
Sample Info: 1801;;1;2;4;;;

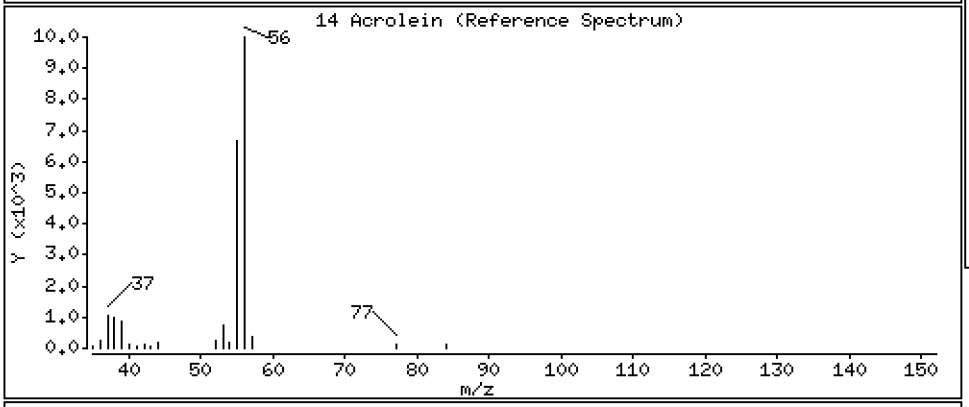
Purge Volume: 5.0 Operator: CJG

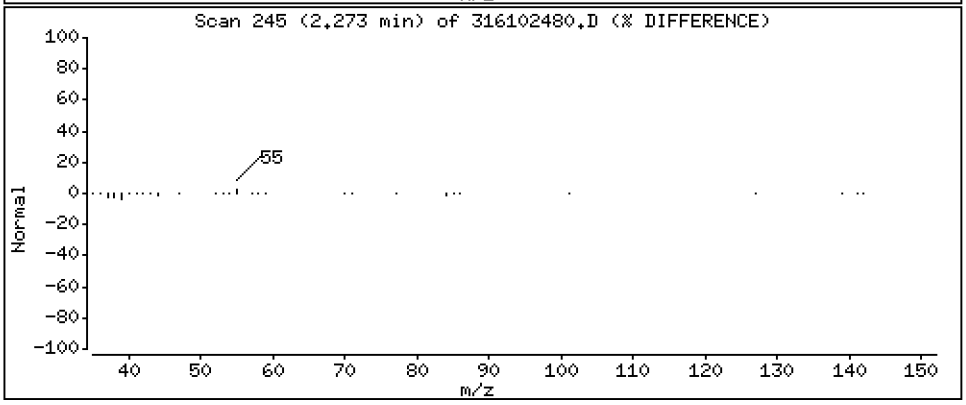
Column phase: DB-VRX Column diameter: 0.25

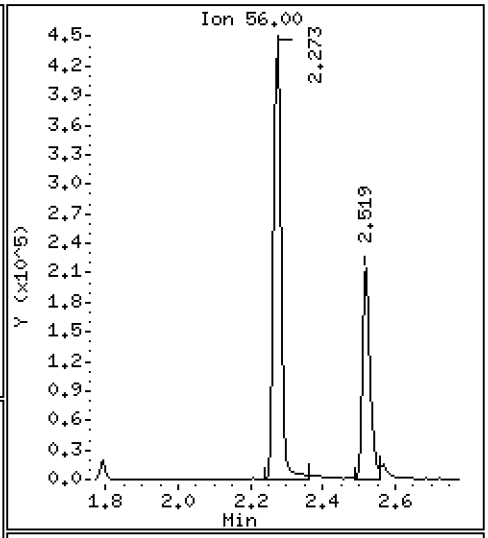
14 Acrolein Concentration: 466.804 ug/L

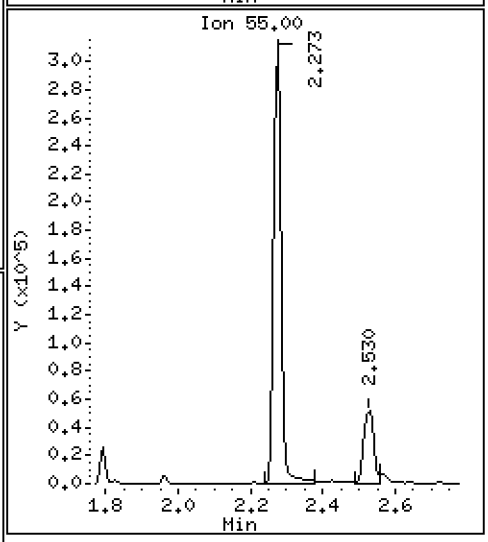












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 27

Date : 25-OCT-2016 09:17

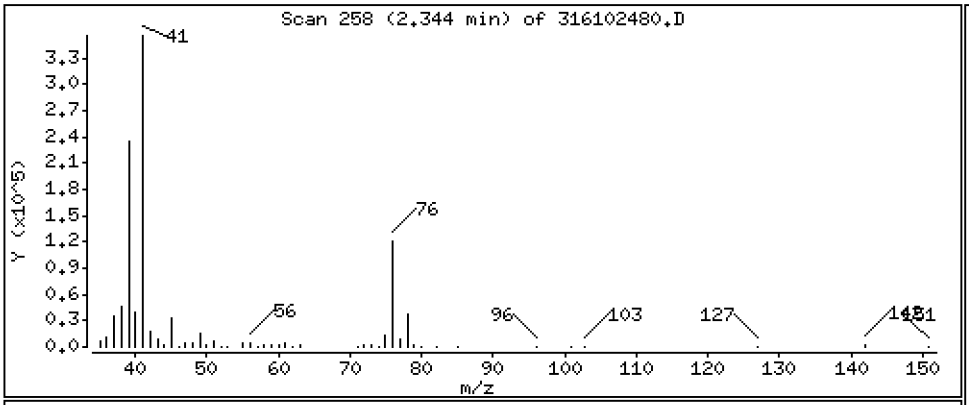
Client ID: Instrument: ms03.i

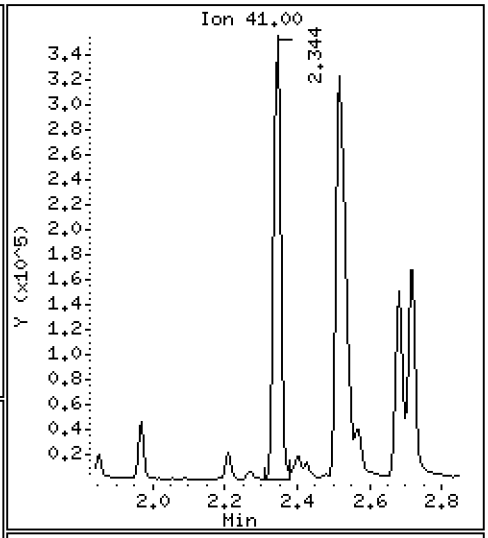
Sample Info: 1801;;1;2;4;;;

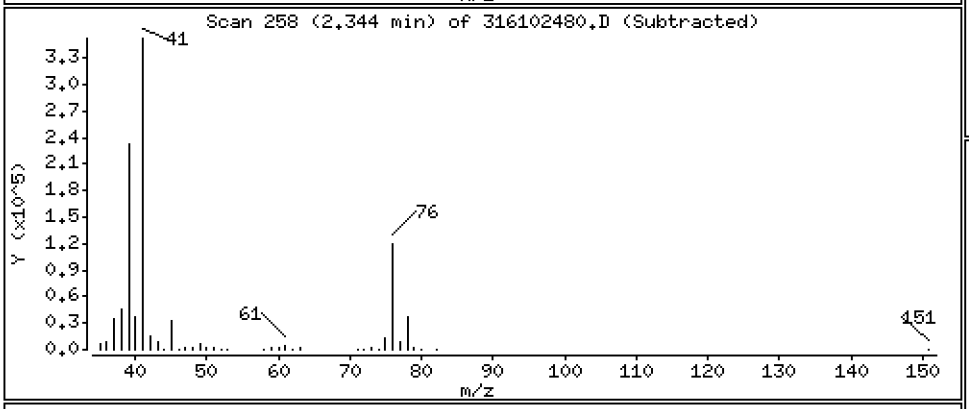
Purge Volume: 5.0 Operator: CJG

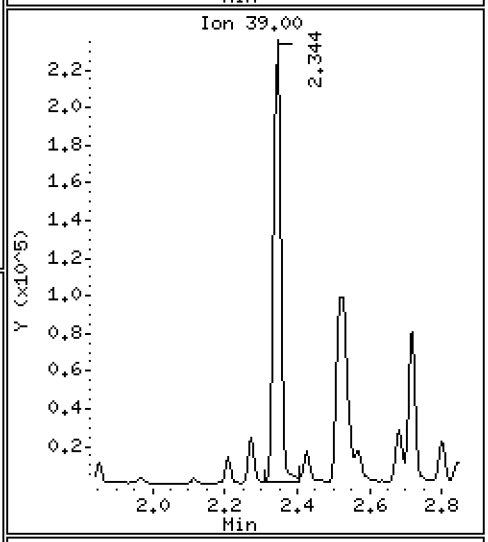
Column phase: DB-VRX Column diameter: 0.25

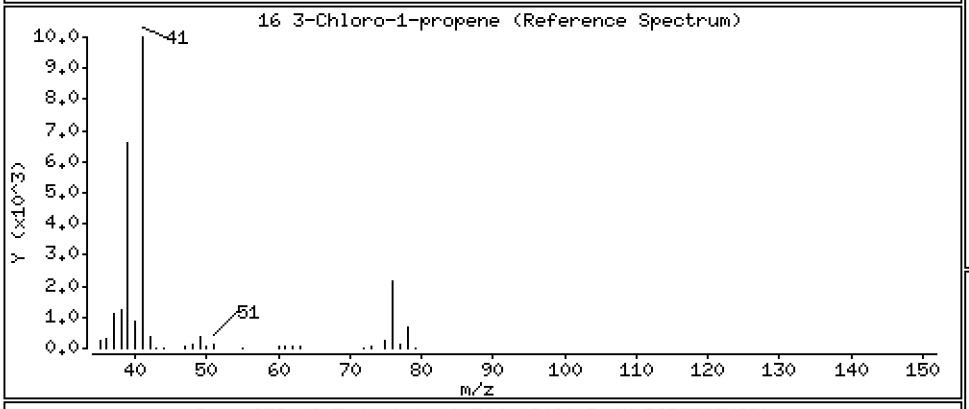
16 3-Chloro-1-propene Concentration: 38.9072 ug/L

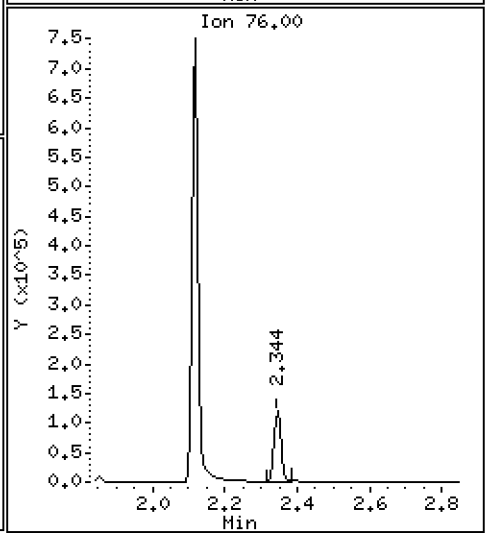


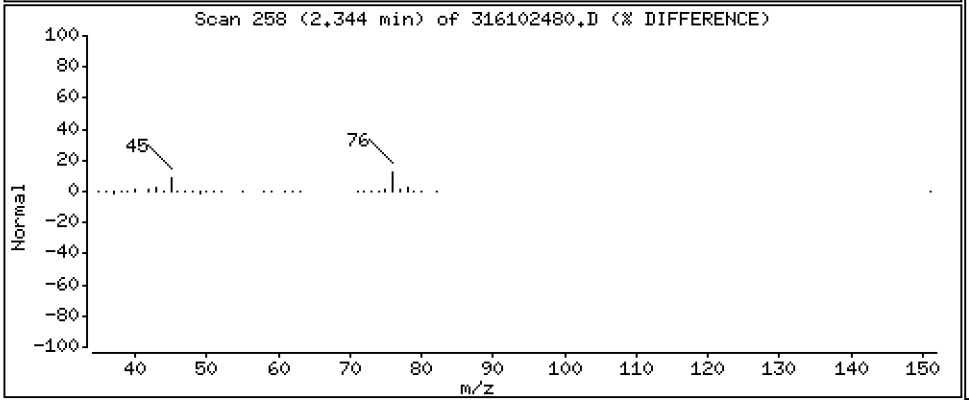












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 28

Date : 25-OCT-2016 09:17

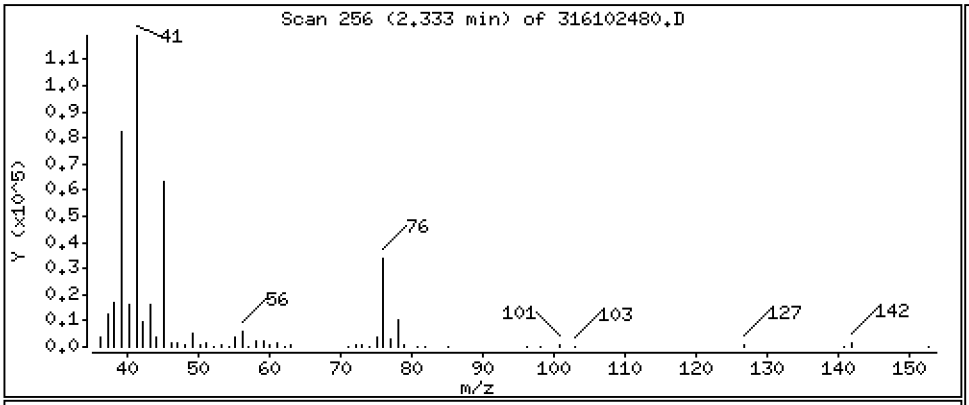
Client ID: Instrument: ms03.i

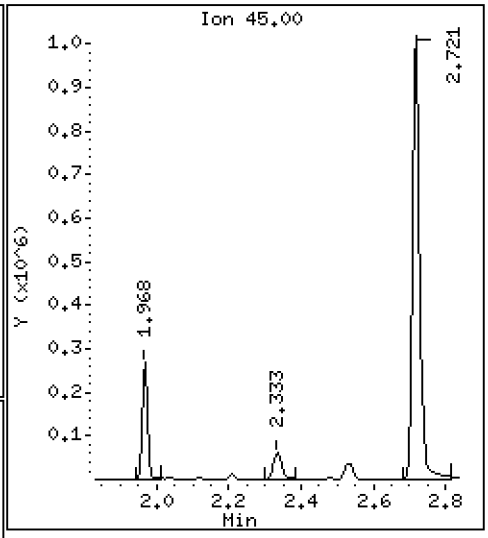
Sample Info: 1801;;1;2;4;;;

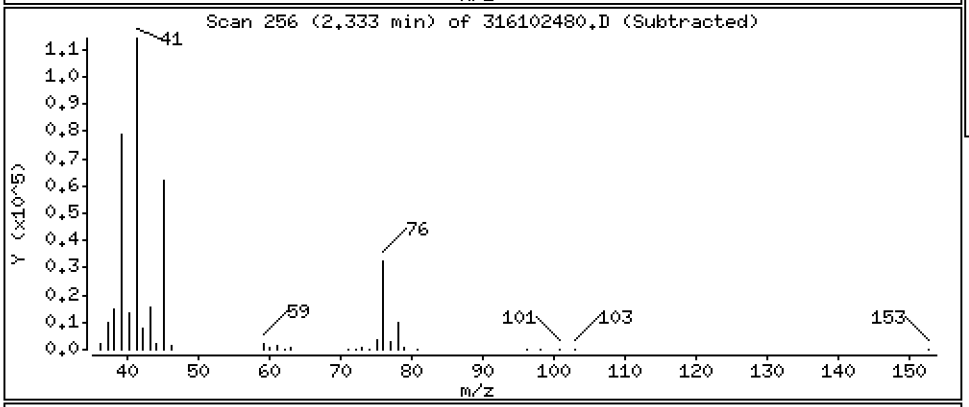
Purge Volume: 5.0 Operator: CJG

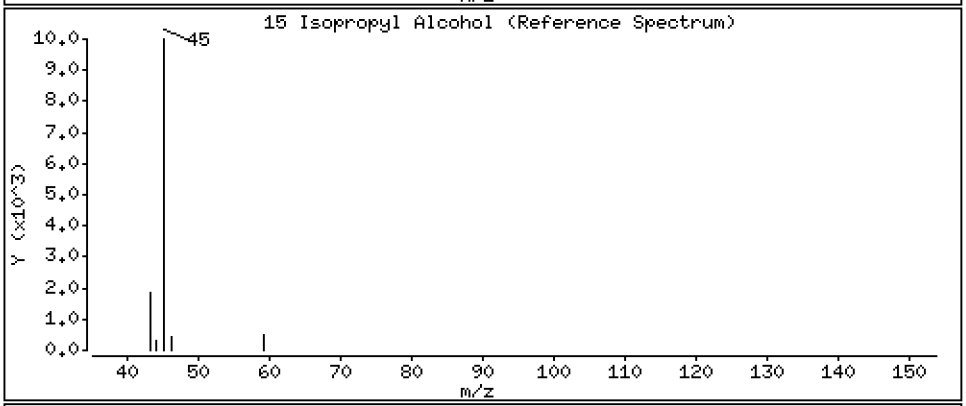
Column phase: DB-VRX Column diameter: 0.25

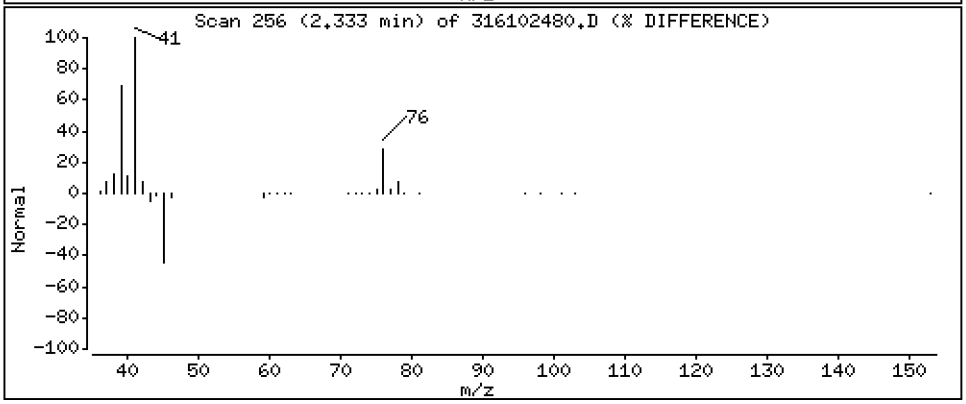
15 Isopropyl Alcohol Concentration: 331.836 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 29

Date : 25-OCT-2016 09:17

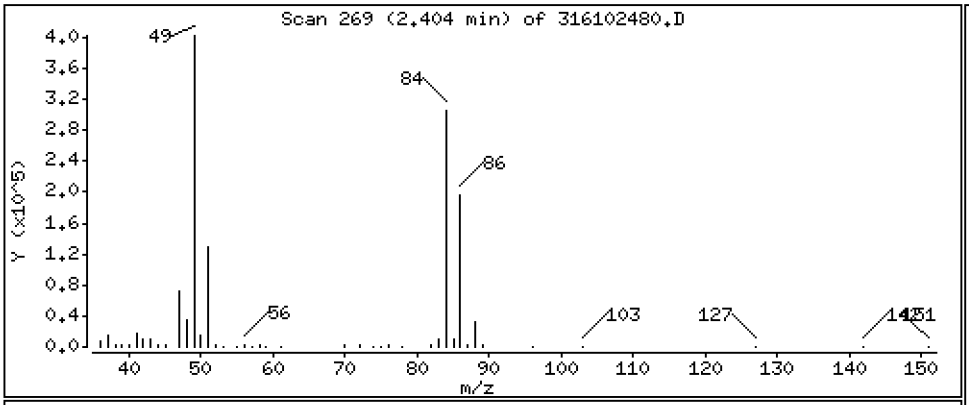
Client ID: Instrument: ms03.i

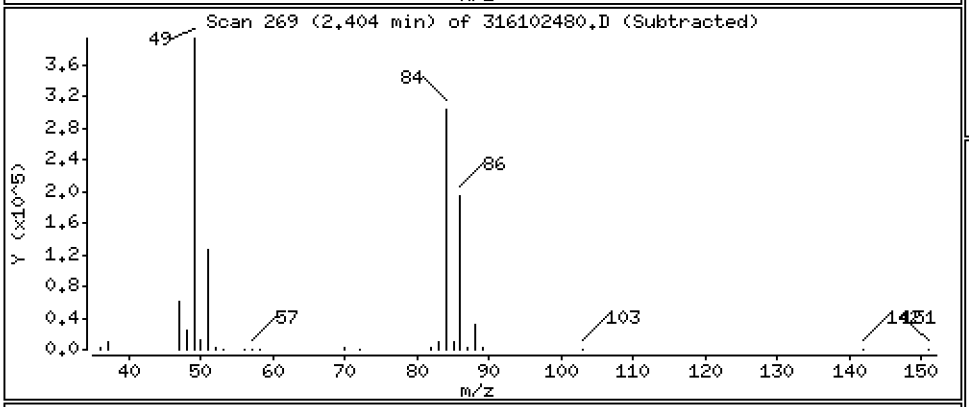
Sample Info: 1801;;1;2;4;;;

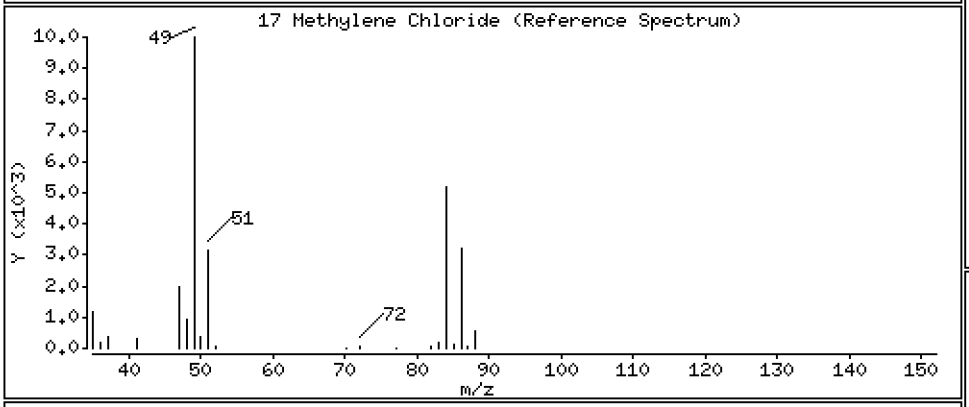
Purge Volume: 5.0 Operator: CJG

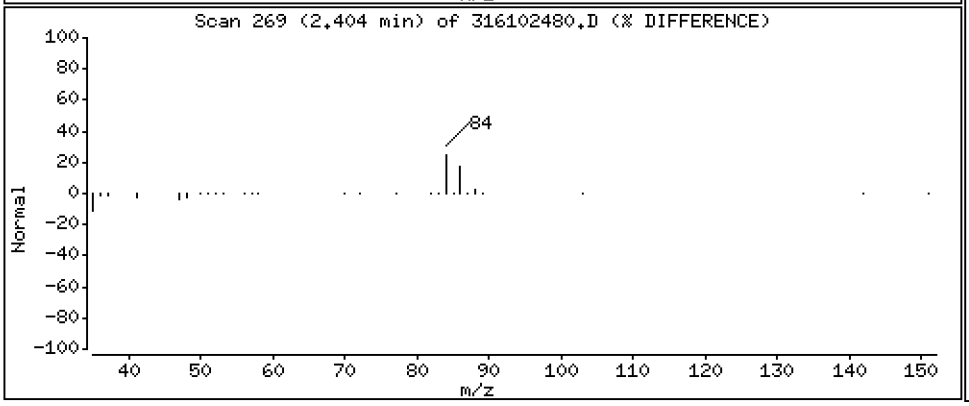
Column phase: DB-VRX Column diameter: 0.25

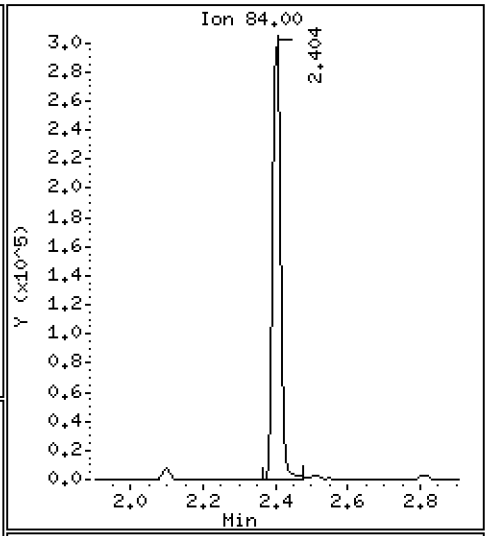
17 Methylene Chloride Concentration: 47.4578 ug/L

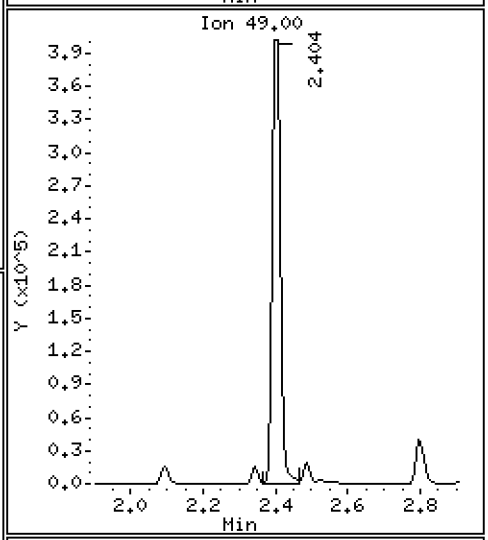


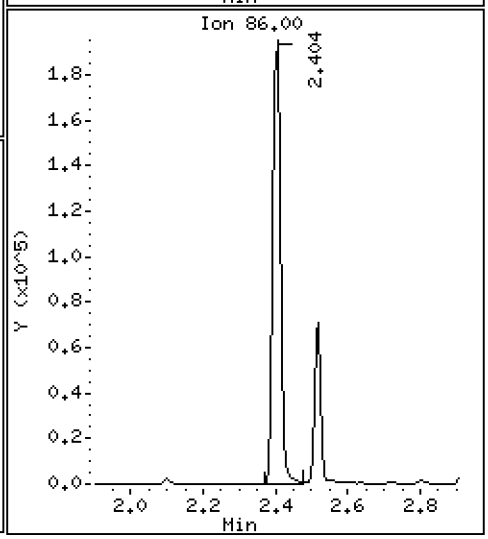












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 30

Date : 25-OCT-2016 09:17

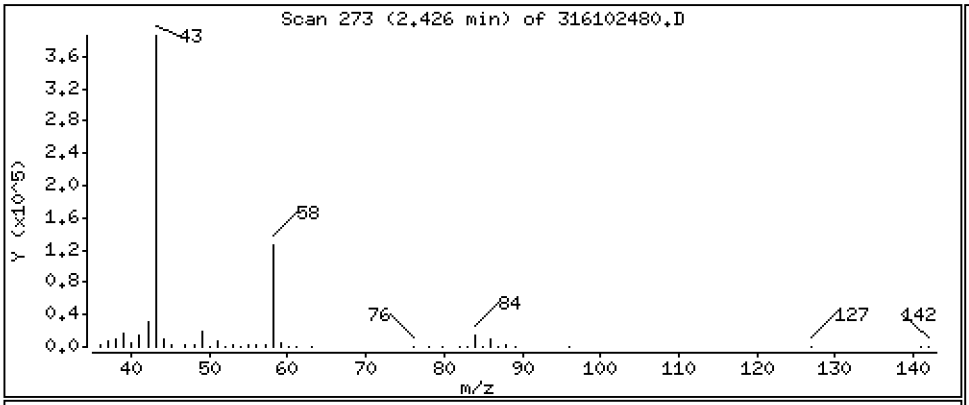
Client ID: Instrument: ms03.i

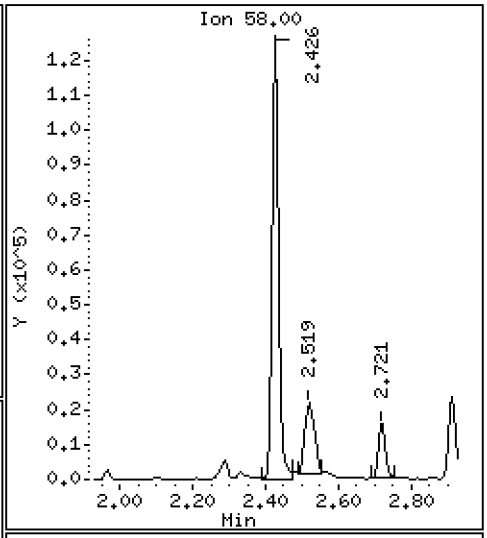
Sample Info: 1801;;1;2;4;;;

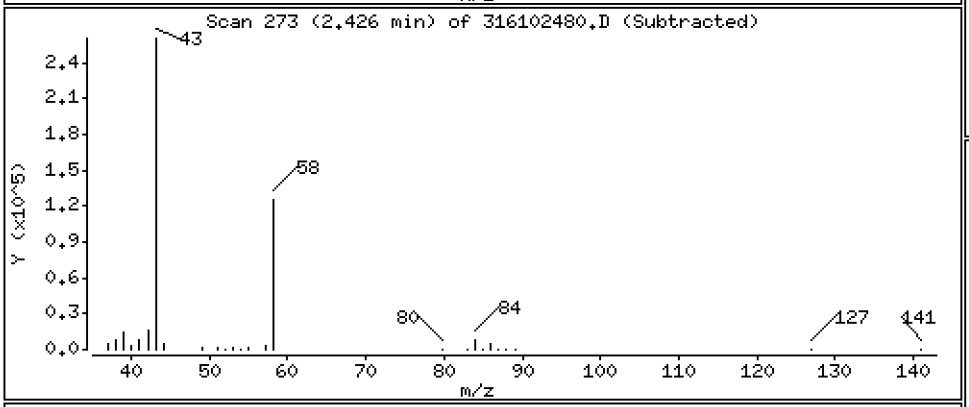
Purge Volume: 5.0 Operator: CJG

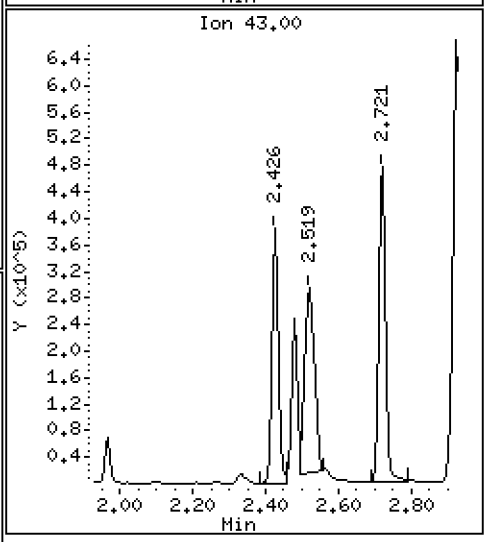
Column phase: DB-VRX Column diameter: 0.25

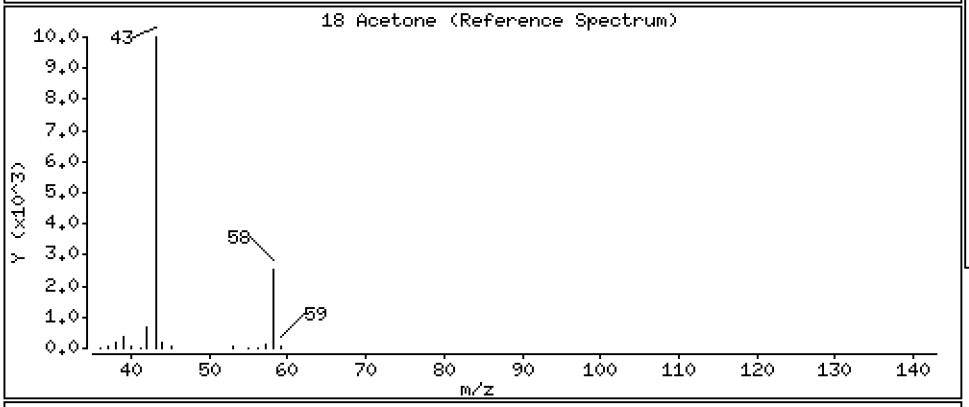
18 Acetone Concentration: 246.522 ug/L

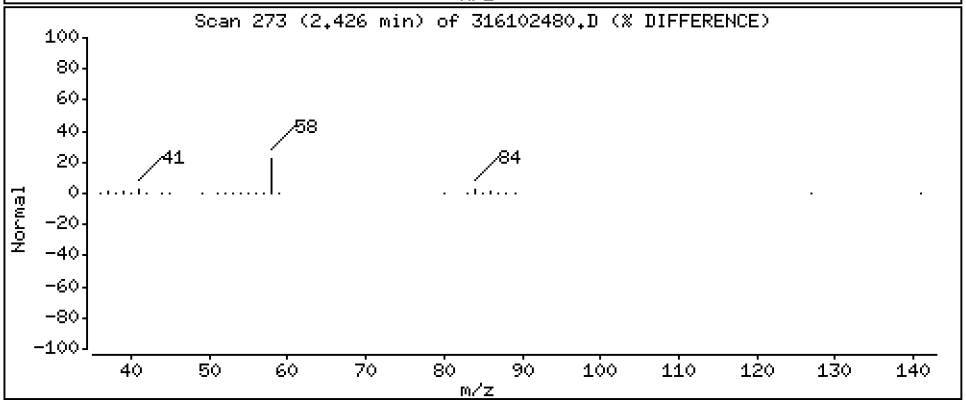












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 31

Date : 25-OCT-2016 09:17

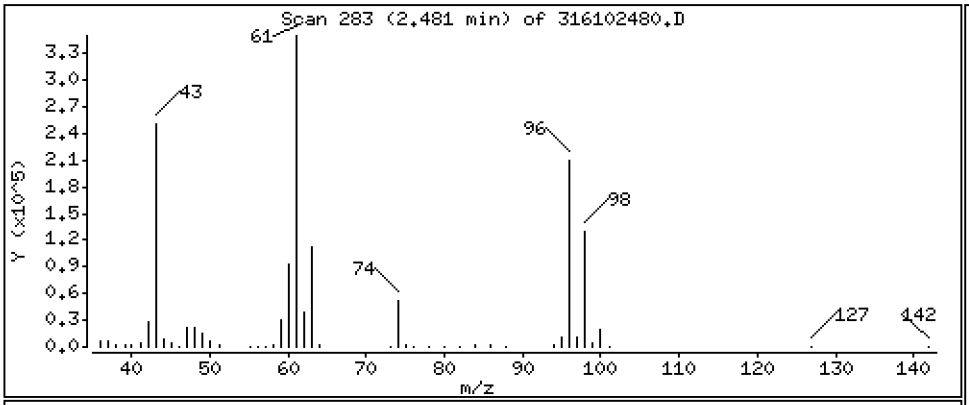
Client ID: Instrument: ms03.i

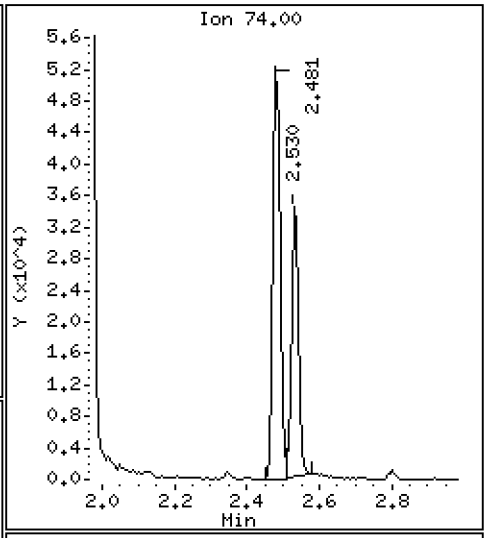
Sample Info: 1801;;1;2;4;;;

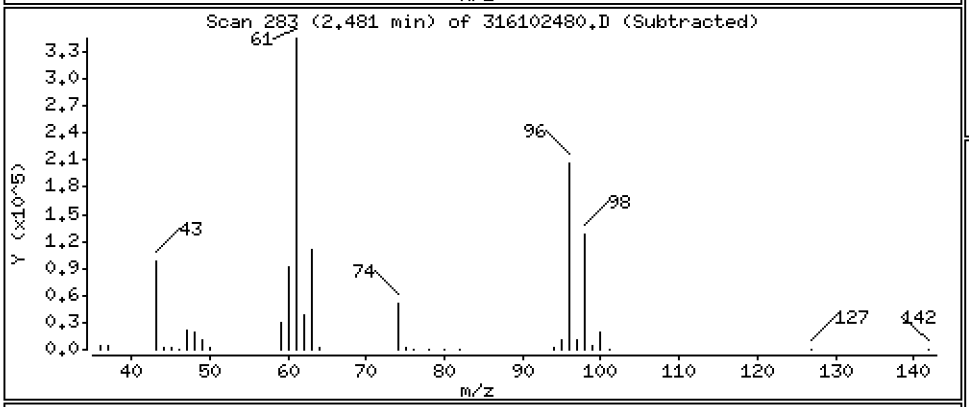
Purge Volume: 5.0 Operator: CJG

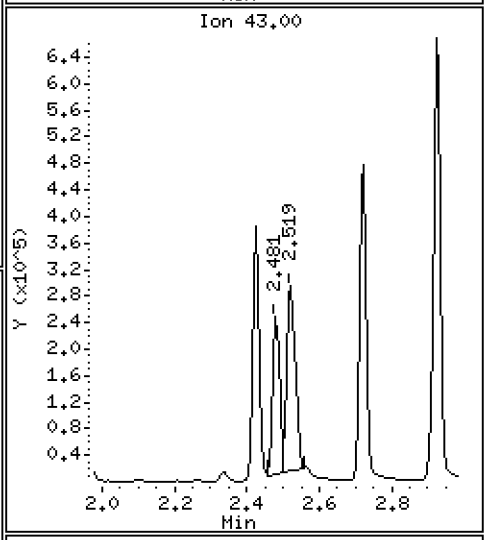
Column phase: DB-VRX Column diameter: 0.25

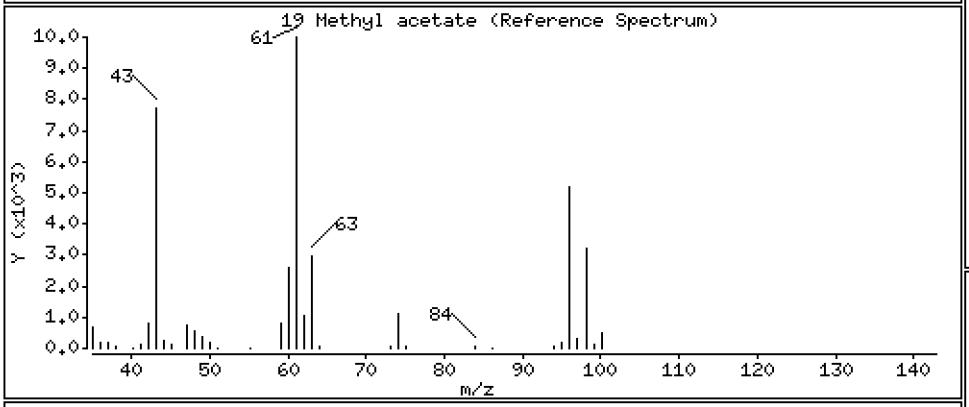
19 Methyl acetate Concentration: 47.7866 ug/L

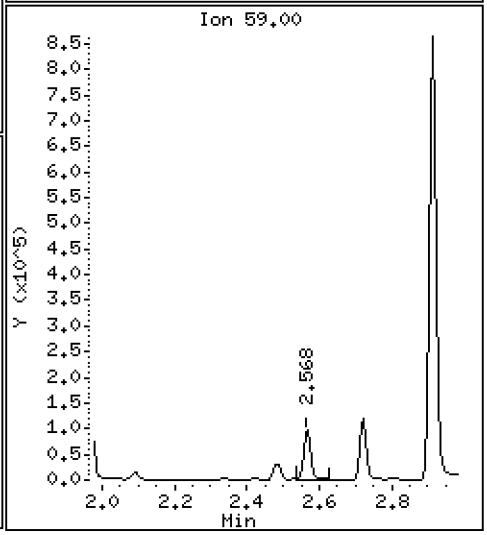


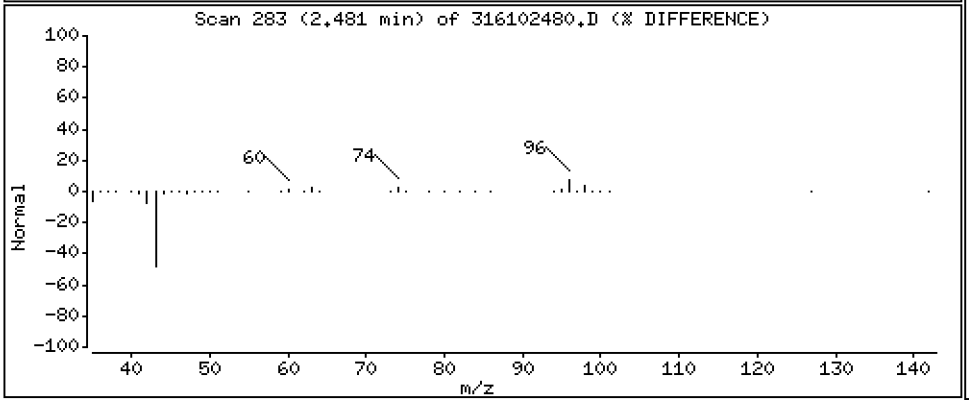












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 32

Date : 25-OCT-2016 09:17

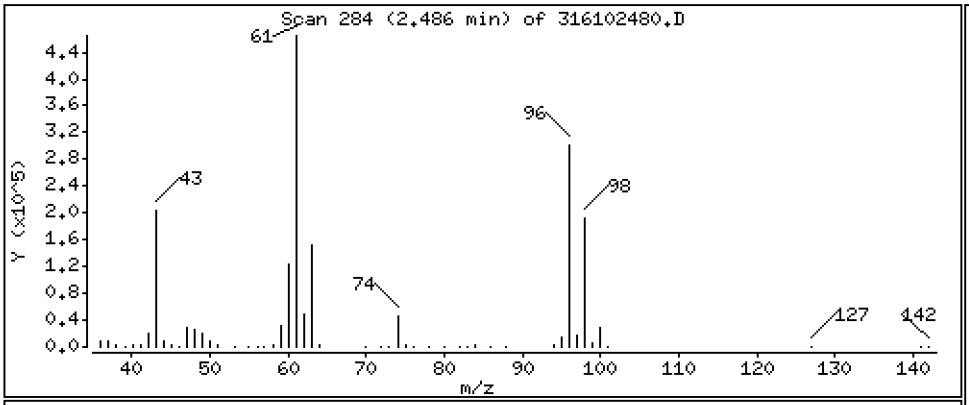
Client ID: Instrument: ms03.i

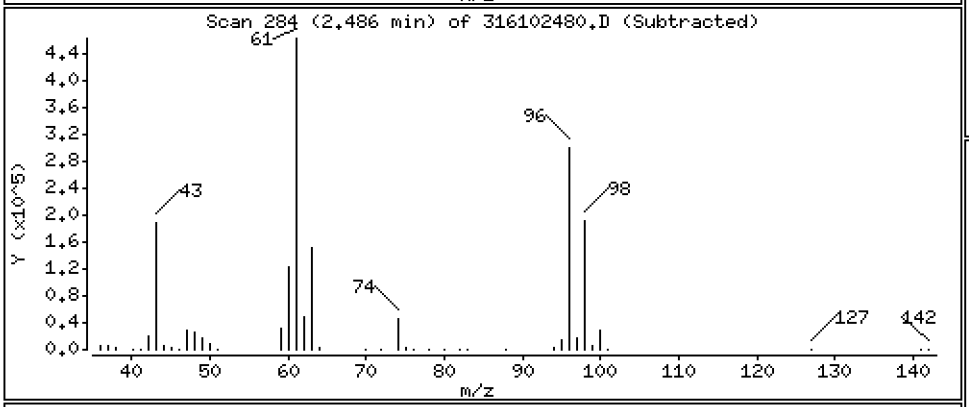
Sample Info: 1801;;1;2;4;;;

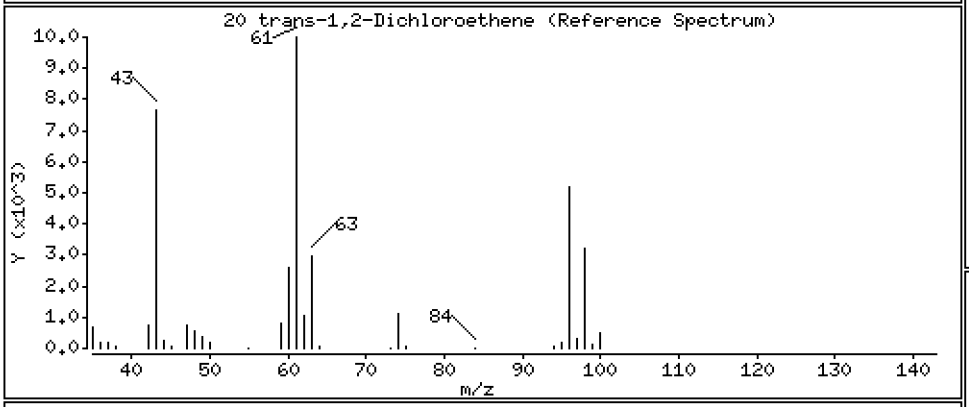
Purge Volume: 5.0 Operator: CJG

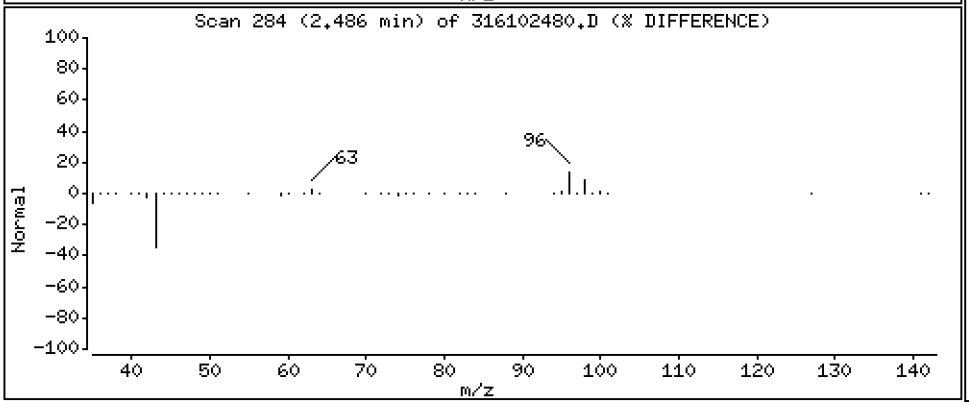
Column phase: DB-VRX Column diameter: 0.25

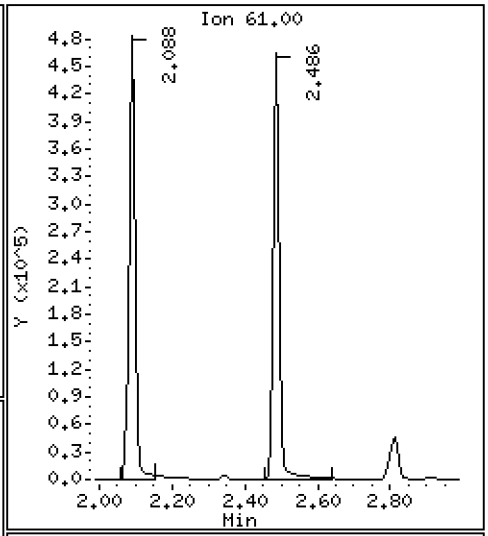
20 trans-1,2-Dichloroethene Concentration: 45.3409 ug/L

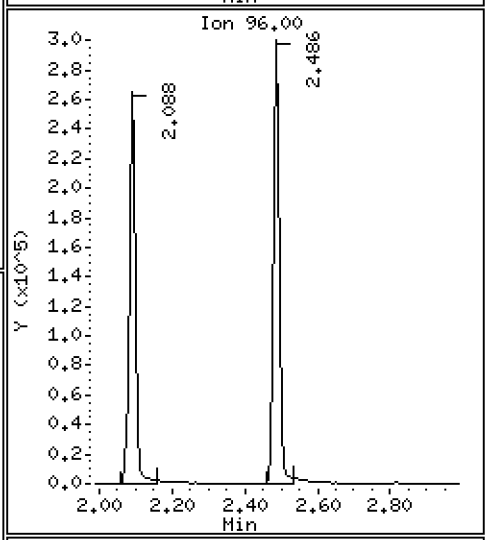


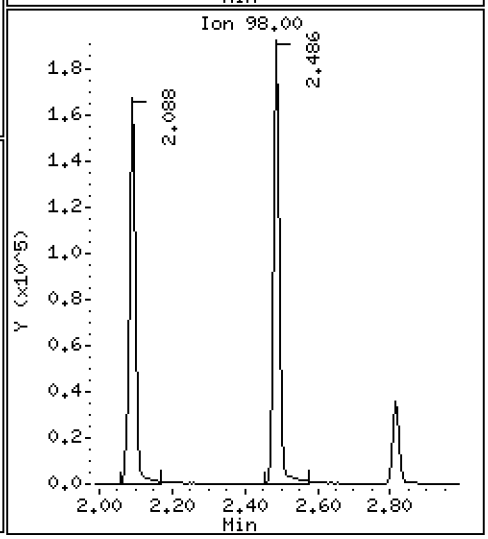












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 33

Date : 25-OCT-2016 09:17

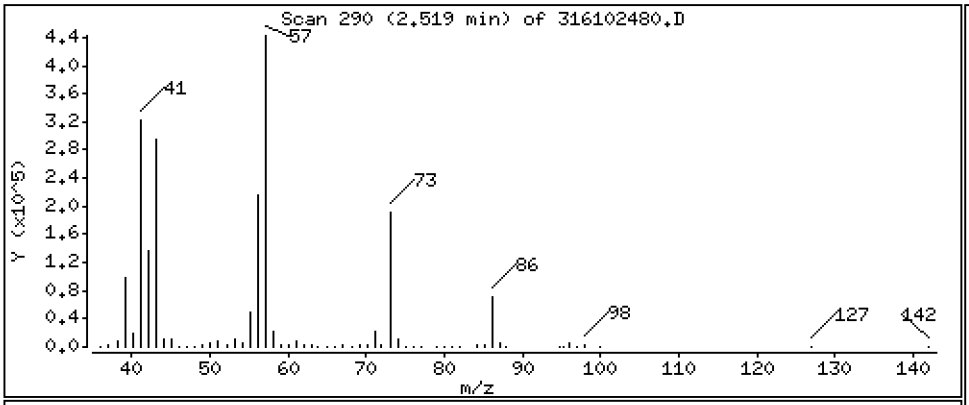
Client ID: Instrument: ms03.i

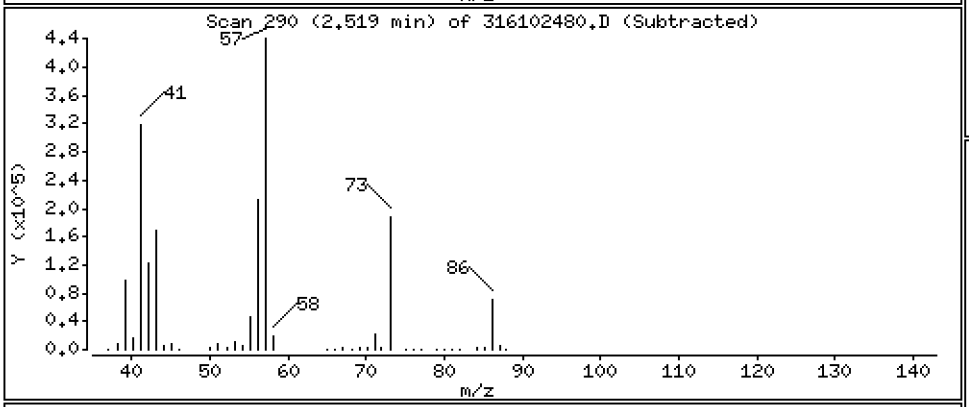
Sample Info: 1801;;1;2;4;;;

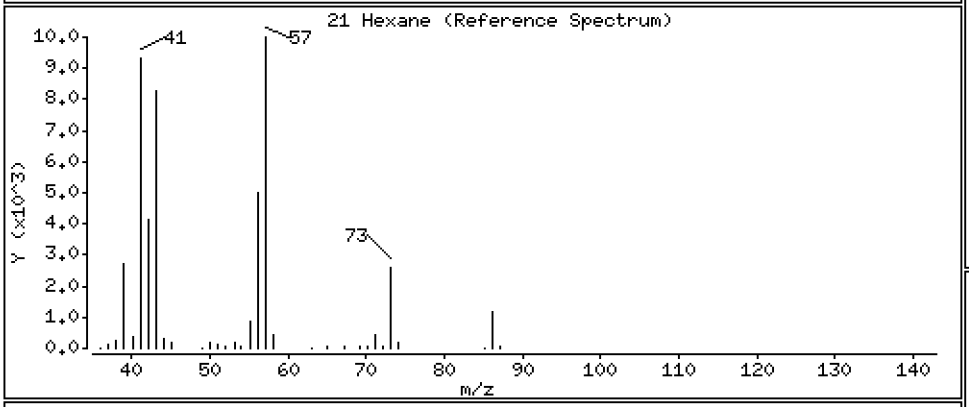
Purge Volume: 5.0 Operator: CJG

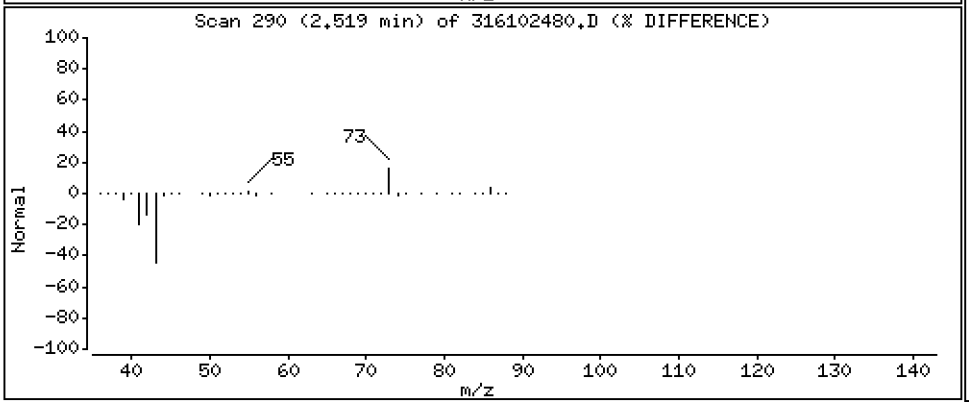
Column phase: DB-VRX Column diameter: 0.25

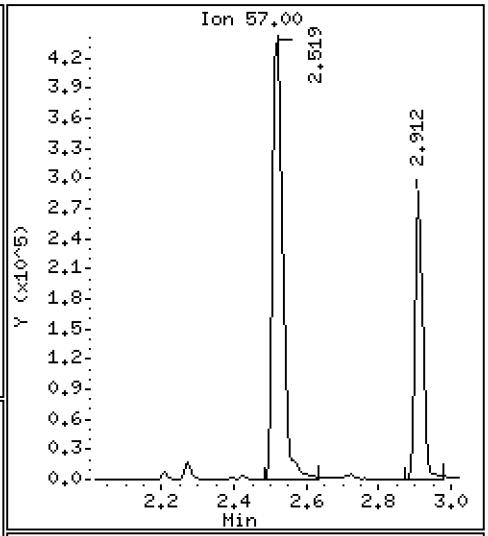
21 Hexane Concentration: 44.3159 ug/L

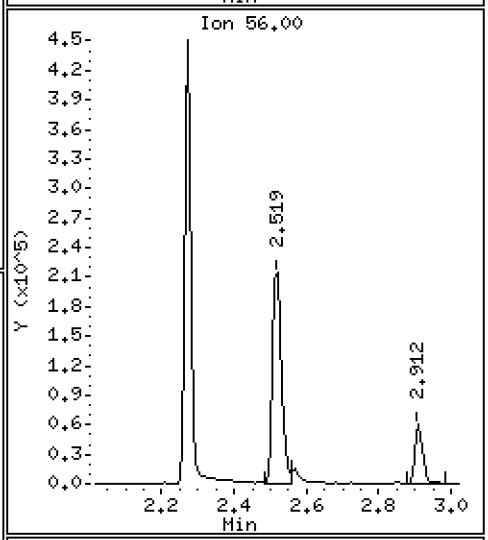


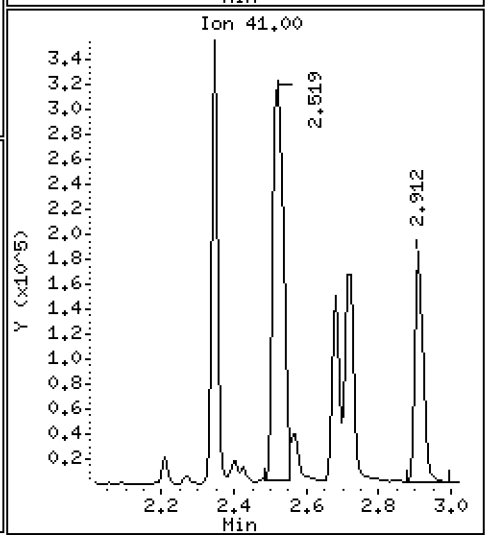












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 34

Date : 25-OCT-2016 09:17

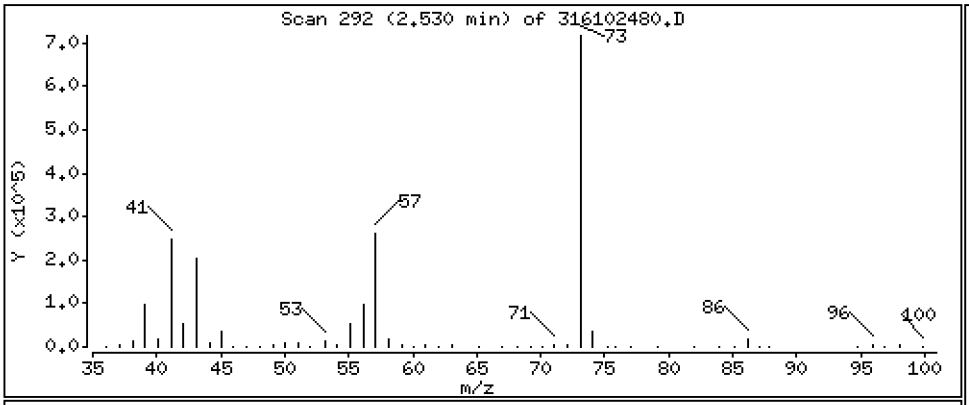
Client ID: Instrument: ms03.i

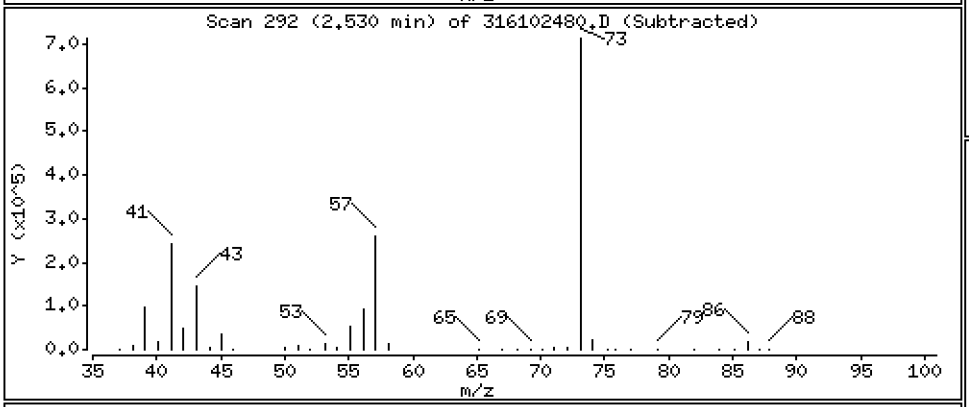
Sample Info: 1801;;1;2;4;;;

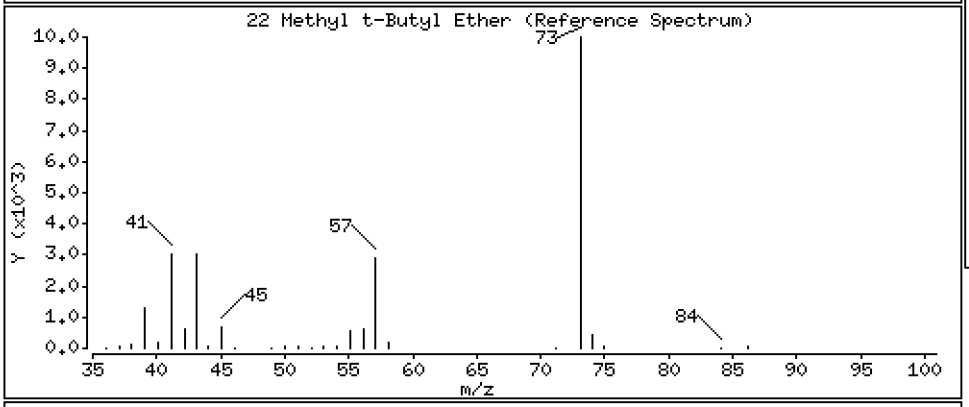
Purge Volume: 5.0 Operator: CJG

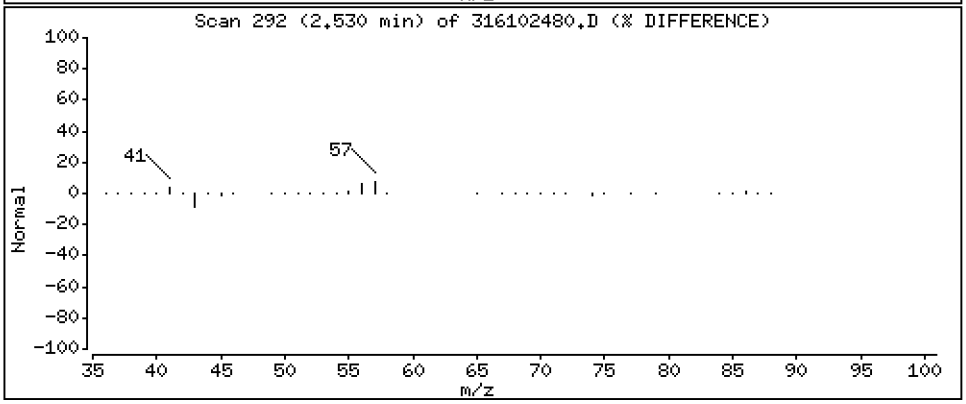
Column phase: DB-VRX Column diameter: 0.25

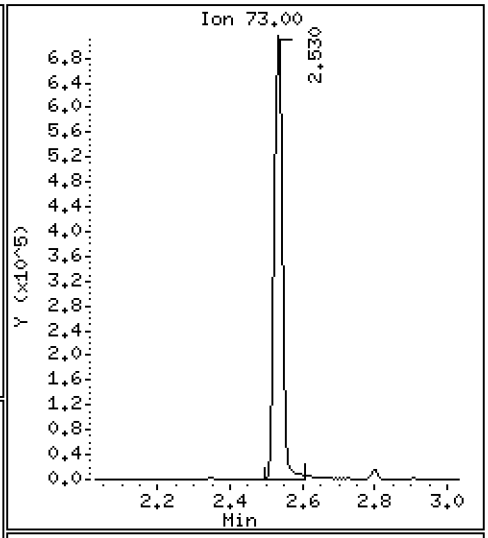
22 Methyl t-Butyl Ether Concentration: 47.0318 ug/L

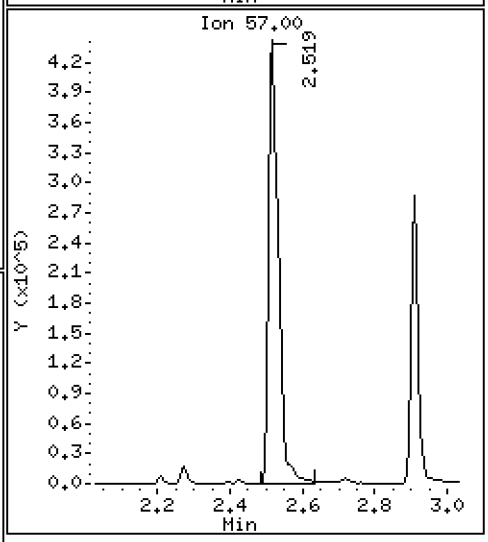












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 35

Date : 25-OCT-2016 09:17

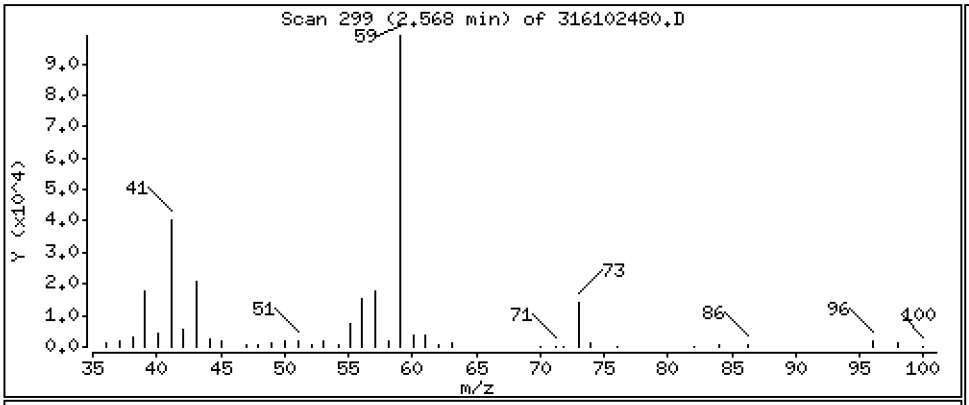
Client ID: Instrument: ms03.i

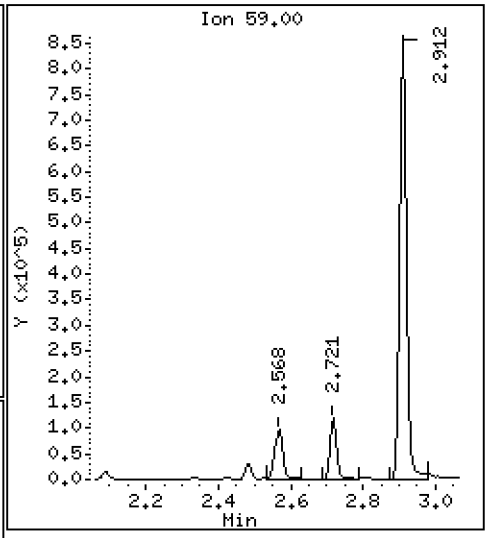
Sample Info: 1801;;1;2;4;;;

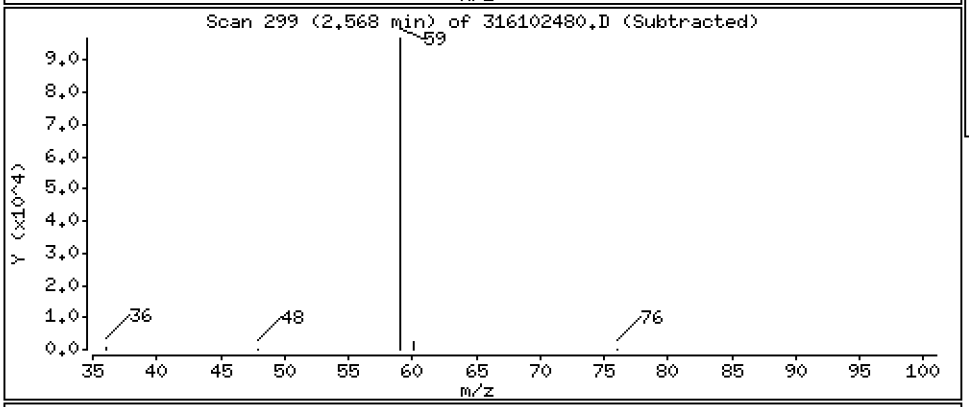
Purge Volume: 5.0 Operator: CJG

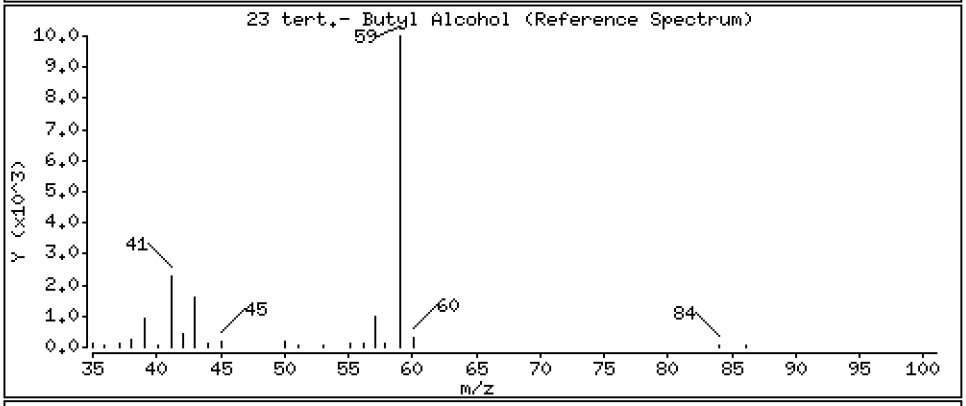
Column phase: DB-WAX Column diameter: 0.25

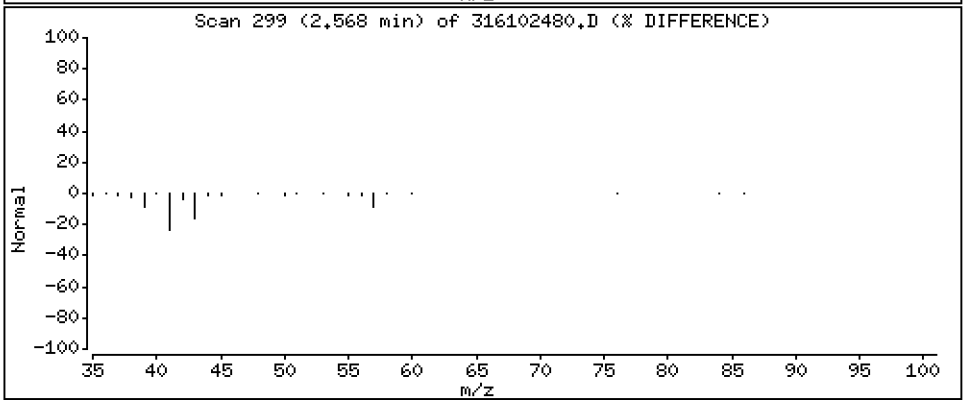
23 tert.- Butyl Alcohol Concentration: 293.368 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 36

Date : 25-OCT-2016 09:17

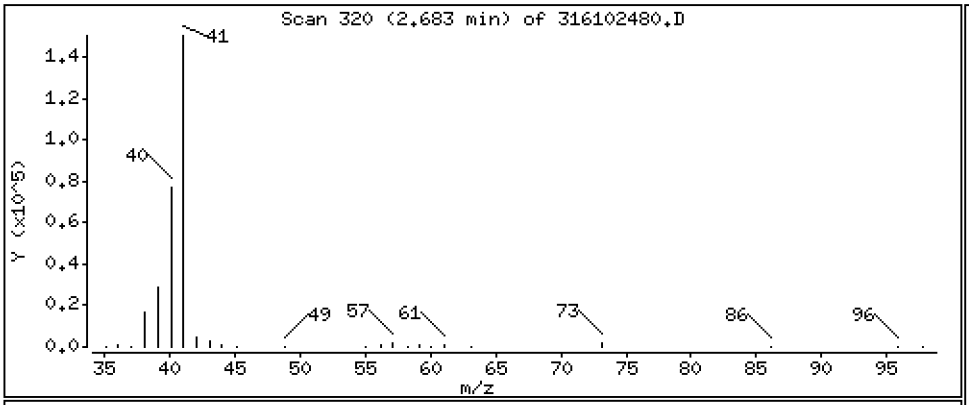
Client ID: Instrument: ms03.i

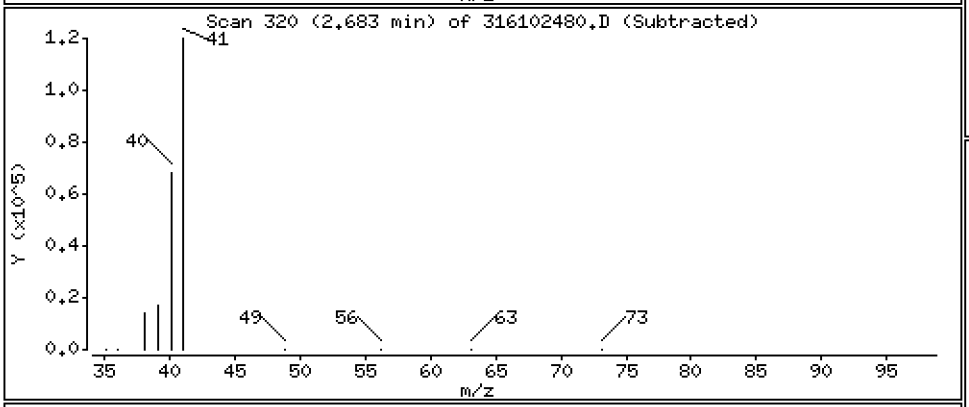
Sample Info: 1801;;1;2;4;;;

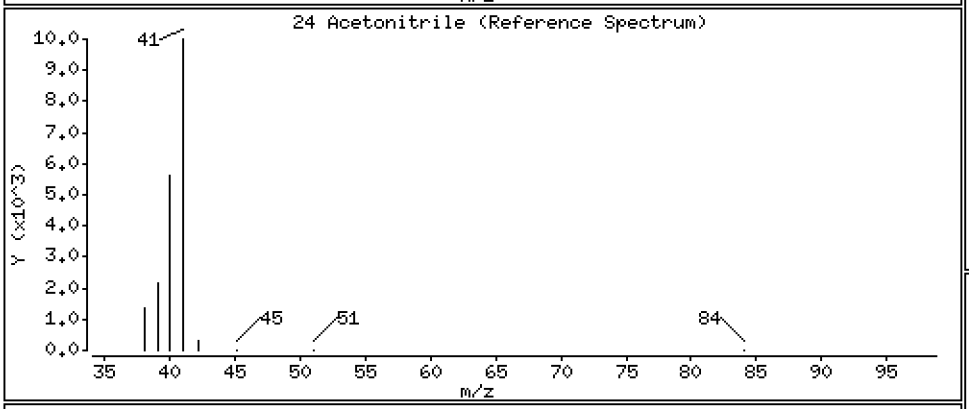
Purge Volume: 5.0 Operator: CJG

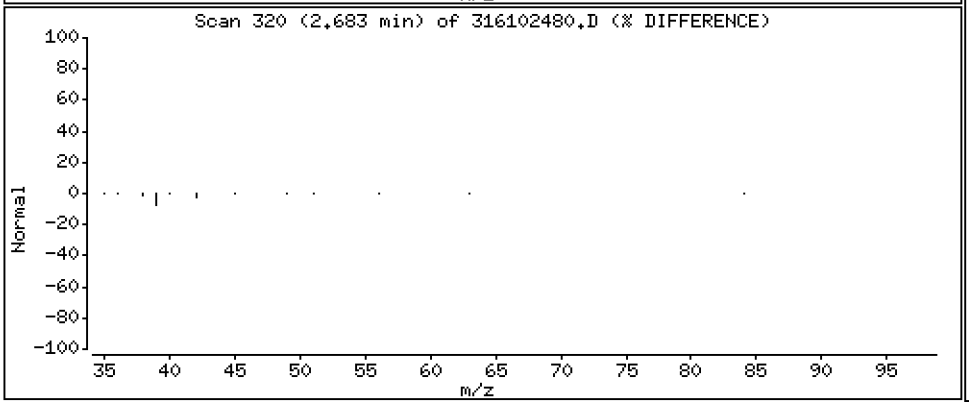
Column phase: DB-VRX Column diameter: 0.25

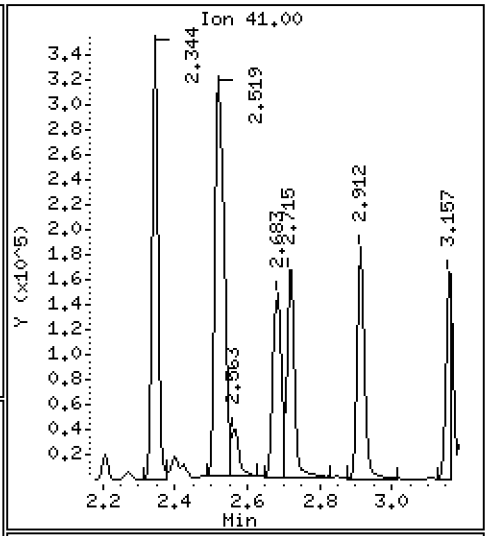
24 Acetonitrile Concentration: 299.923 ug/L

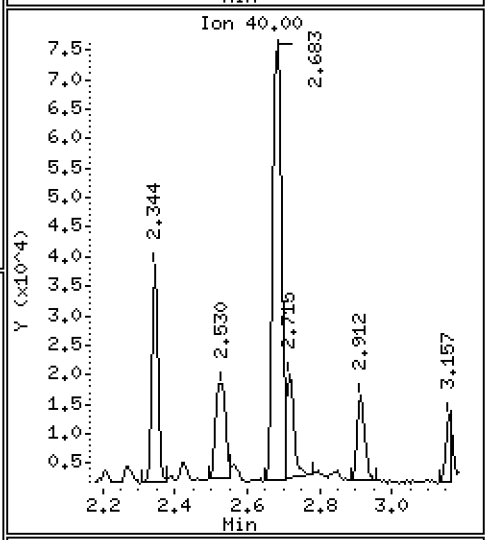


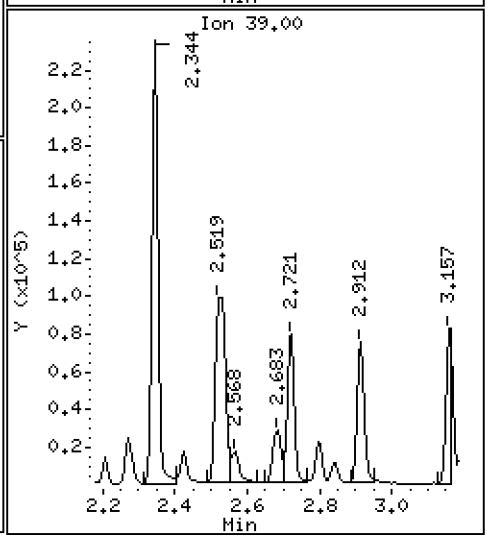












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 37

Date : 25-OCT-2016 09:17

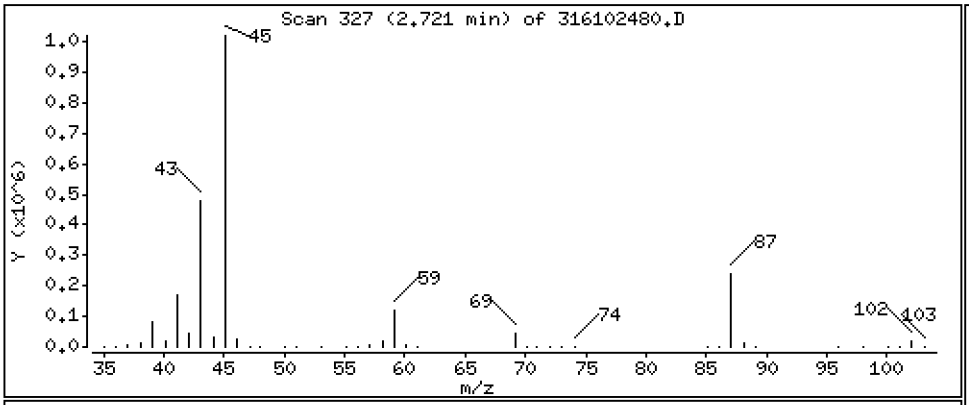
Client ID: Instrument: ms03.i

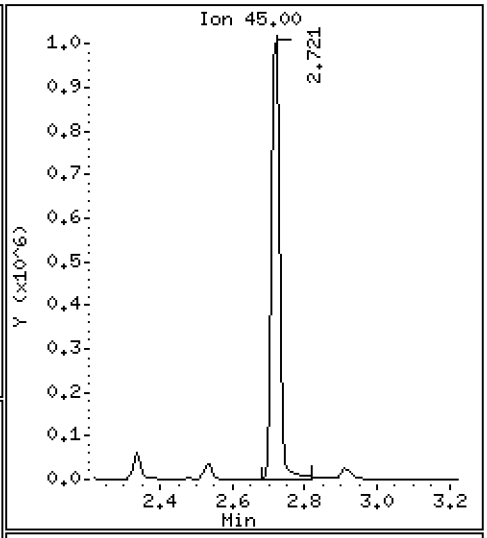
Sample Info: 1801;;1;2;4;;;

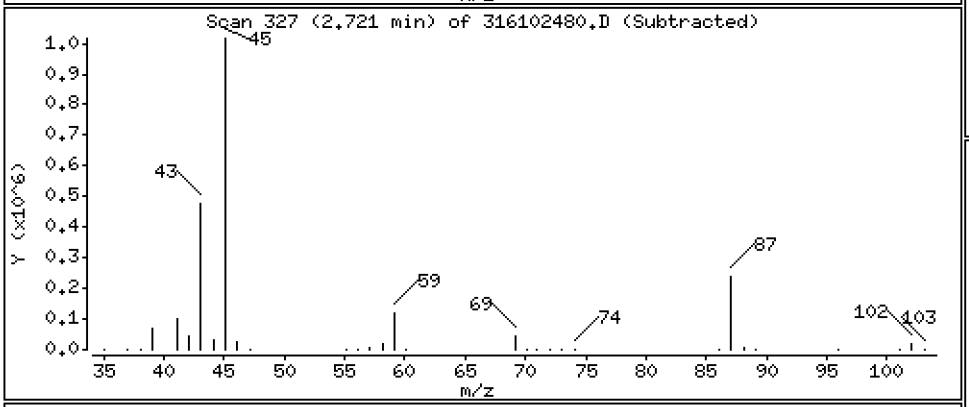
Purge Volume: 5.0 Operator: CJG

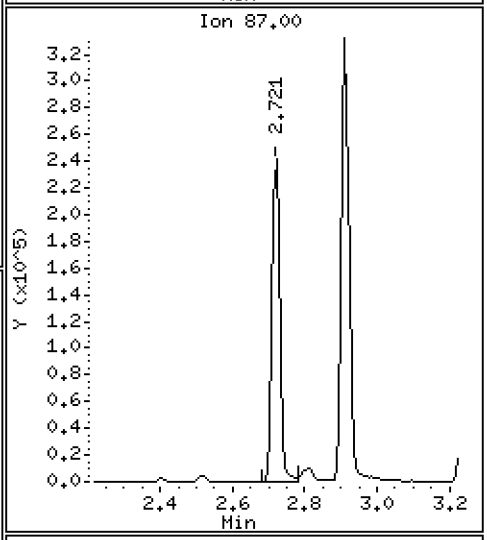
Column phase: DB-VRX Column diameter: 0.25

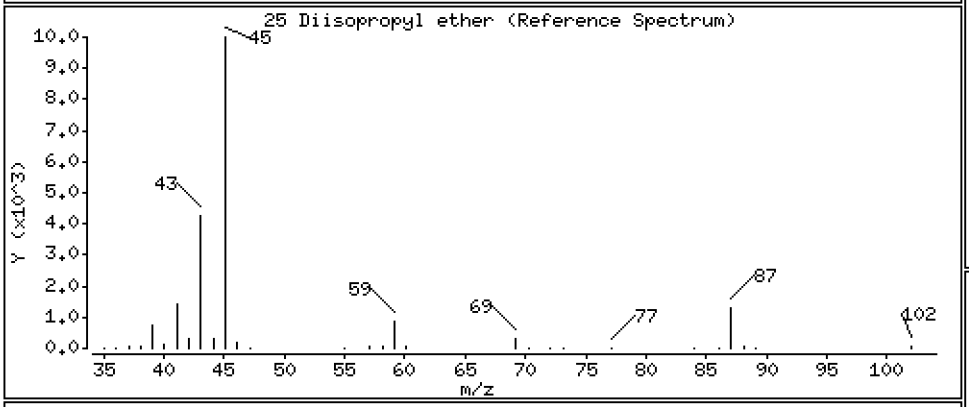
25 Diisopropyl ether Concentration: 49.3766 ug/L

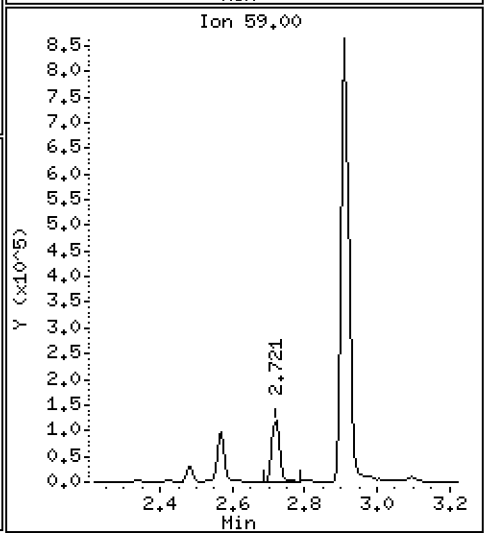


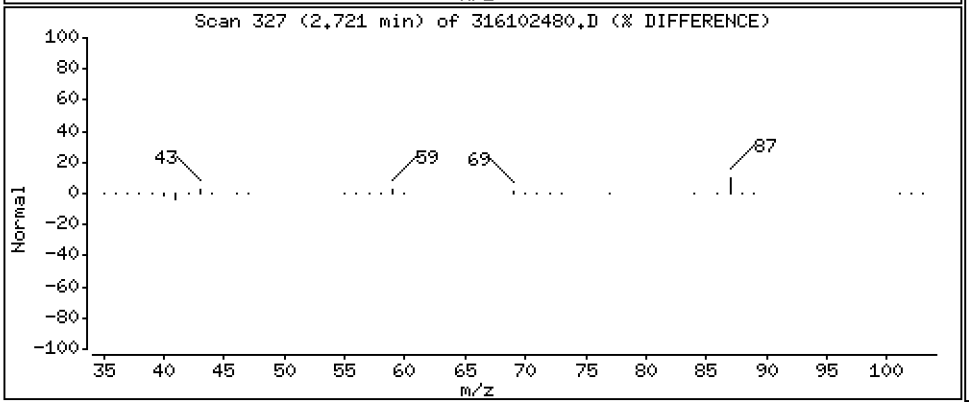












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 38

Date : 25-OCT-2016 09:17

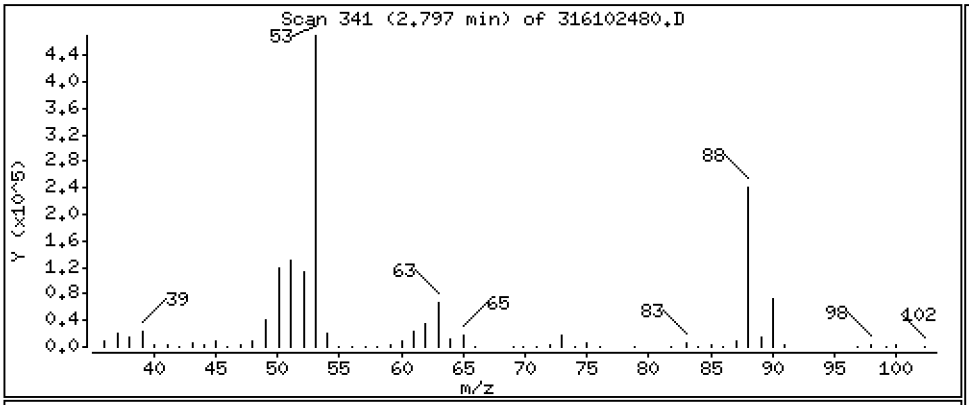
Client ID: Instrument: ms03.i

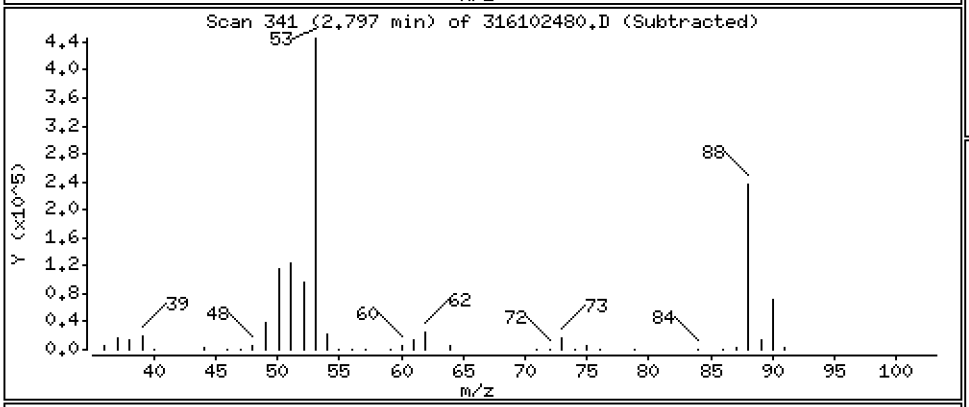
Sample Info: 1801;;1;2;4;;;

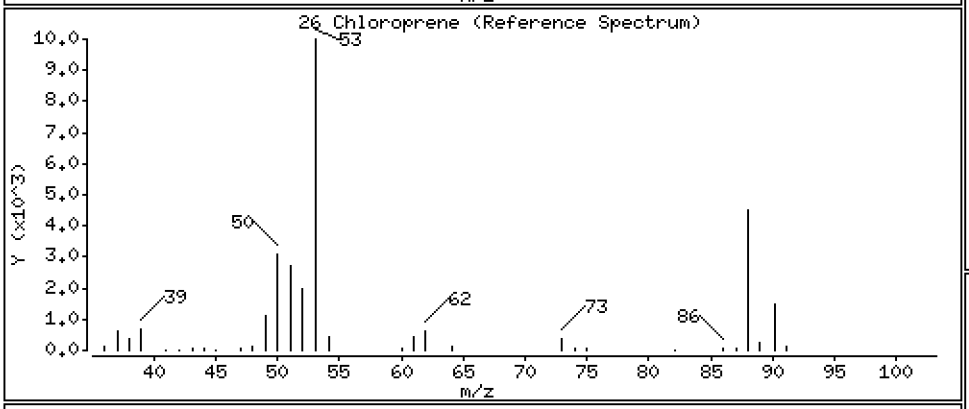
Purge Volume: 5.0 Operator: CJG

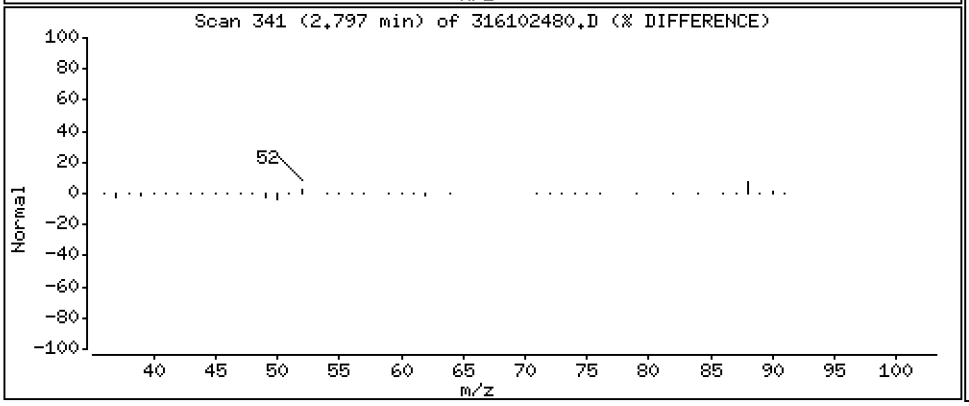
Column phase: DB-VRX Column diameter: 0.25

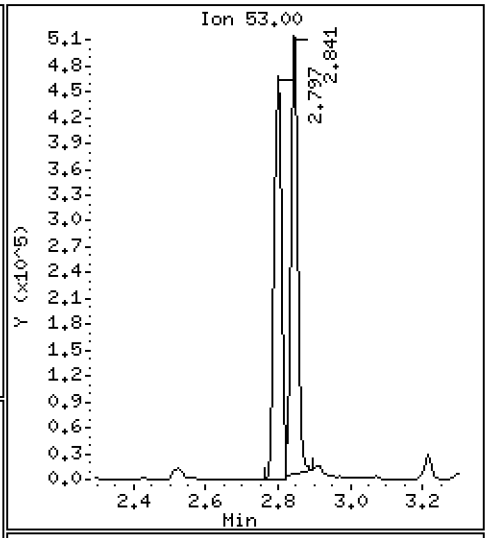
26 Chloroprene Concentration: 47.7884 ug/L

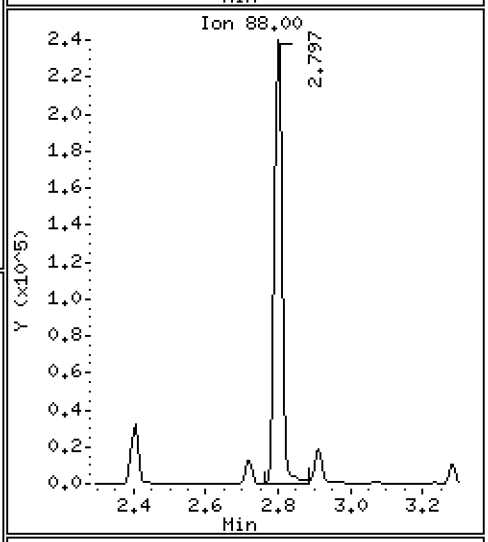


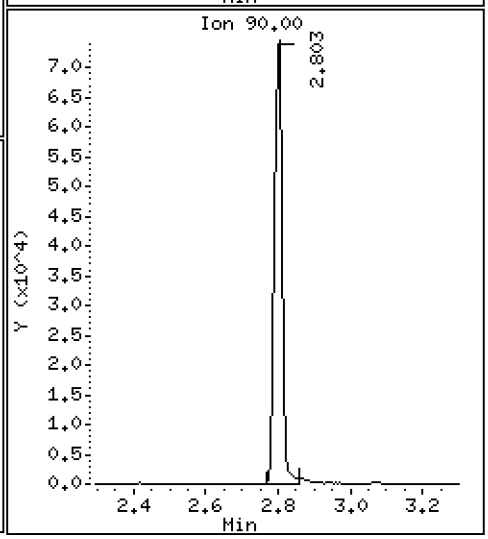












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 39

Date : 25-OCT-2016 09:17

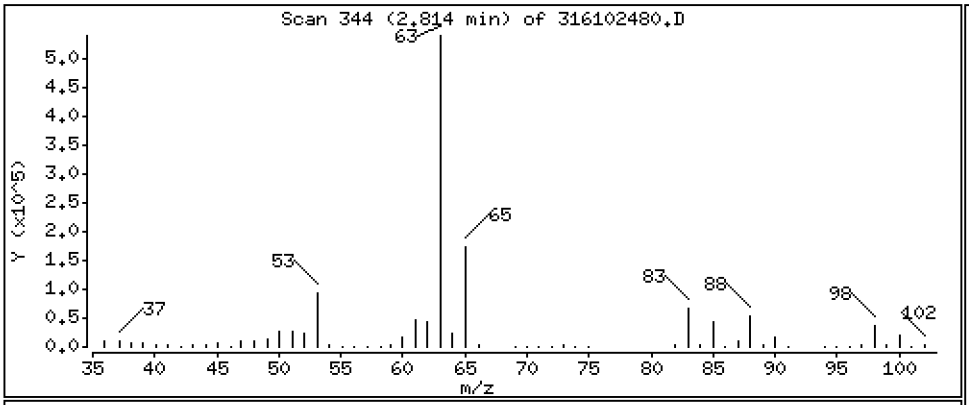
Client ID: Instrument: ms03.i

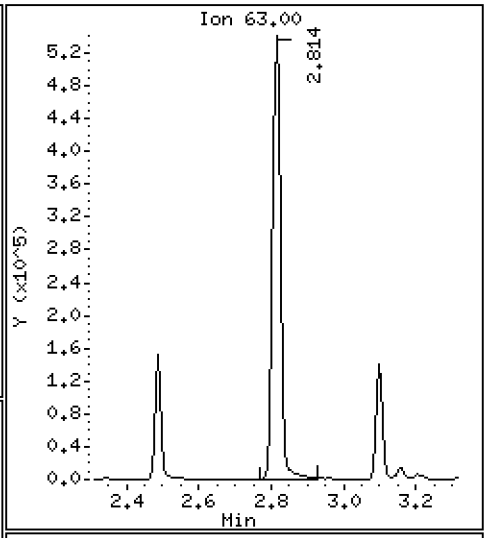
Sample Info: 1801;;1;2;4;;;

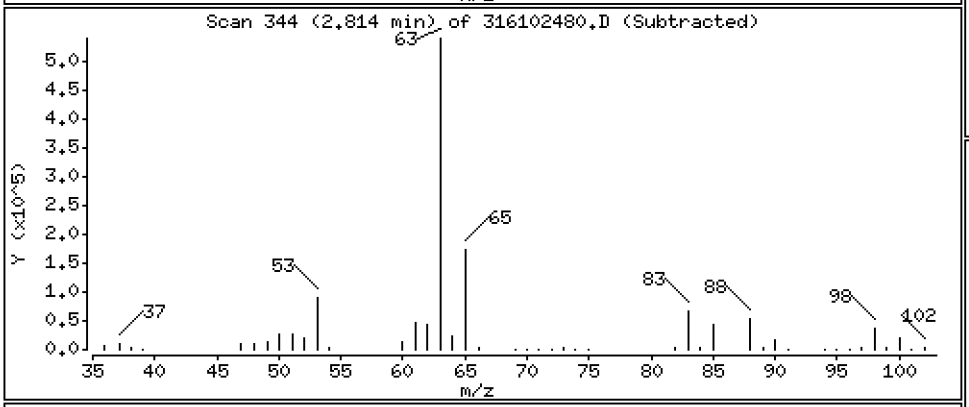
Purge Volume: 5.0 Operator: CJG

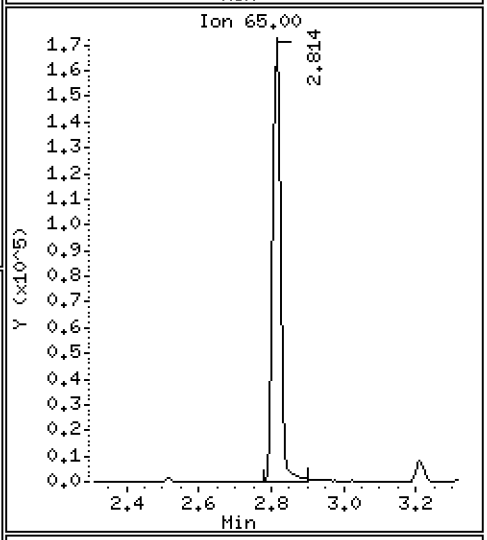
Column phase: DB-VRX Column diameter: 0.25

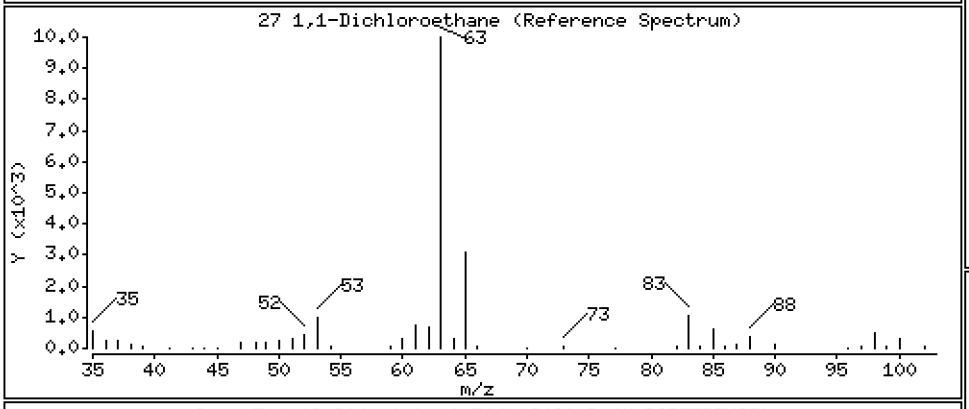
27 1,1-Dichloroethane Concentration: 46.0352 ug/L

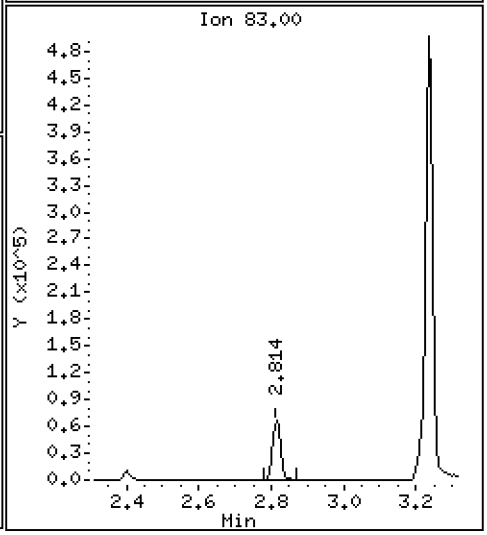


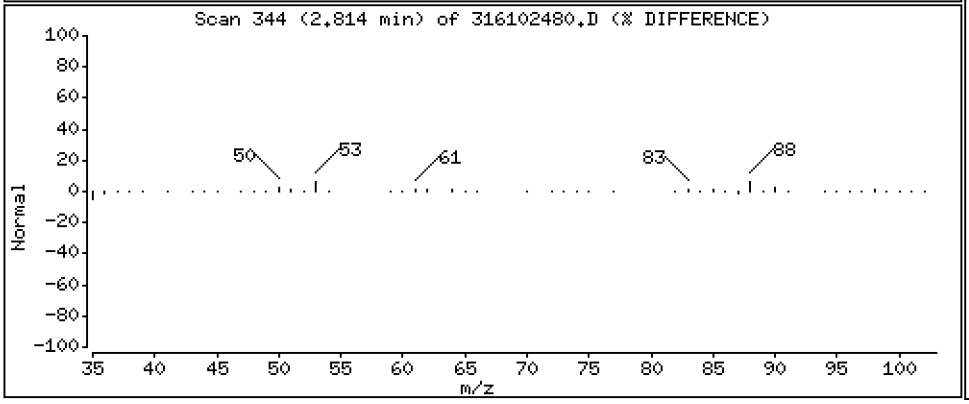












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 40

Date : 25-OCT-2016 09:17

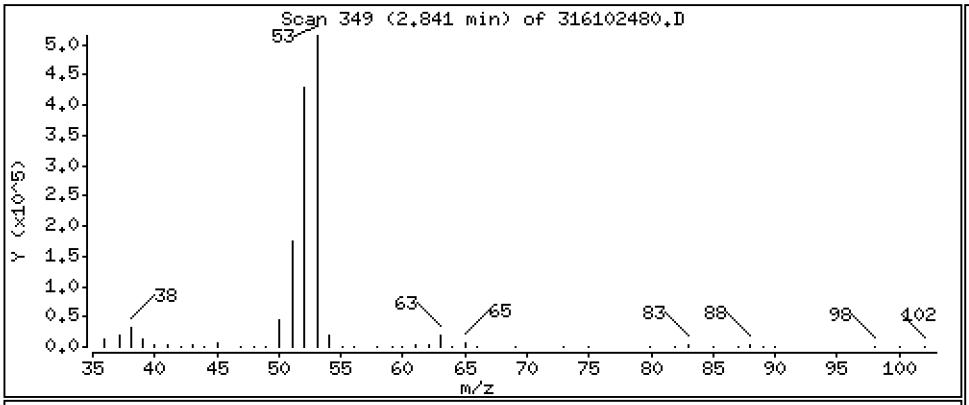
Client ID: Instrument: ms03.i

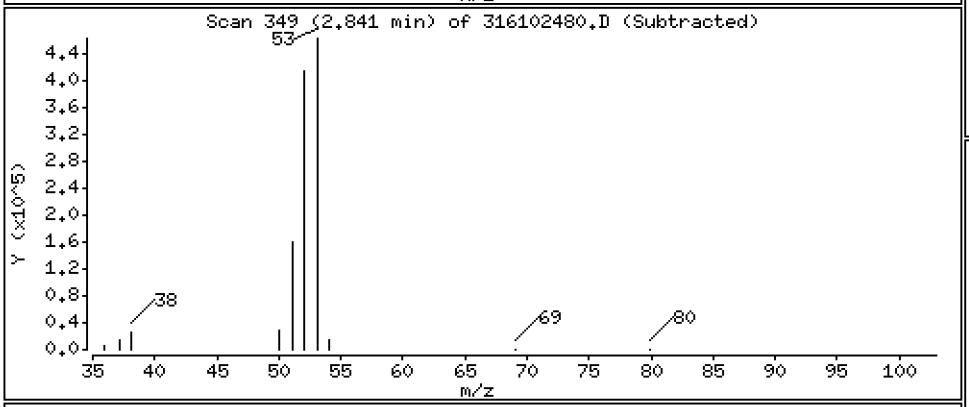
Sample Info: 1801;;1;2;4;;;

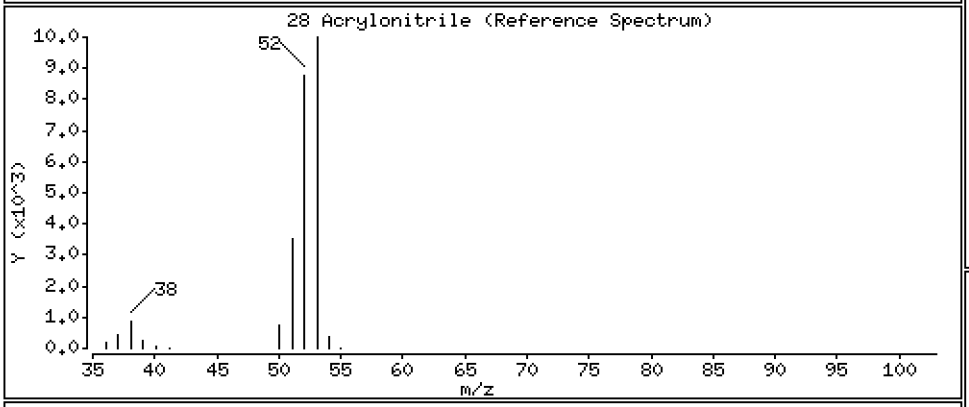
Purge Volume: 5.0 Operator: CJG

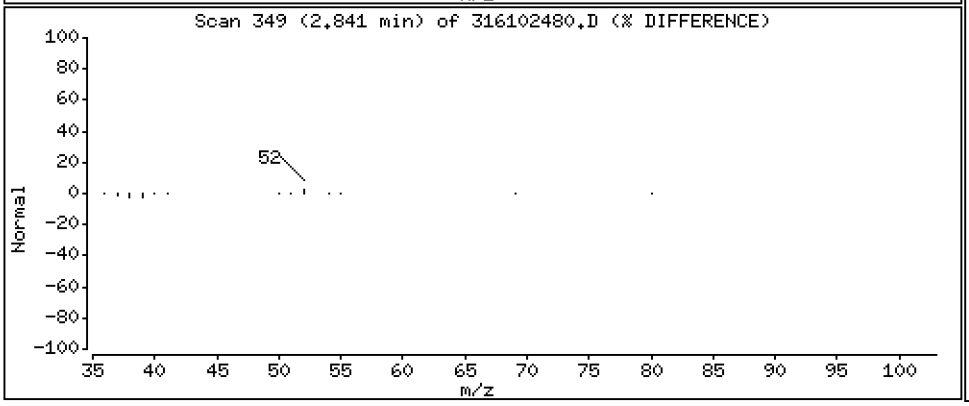
Column phase: DB-VRX Column diameter: 0.25

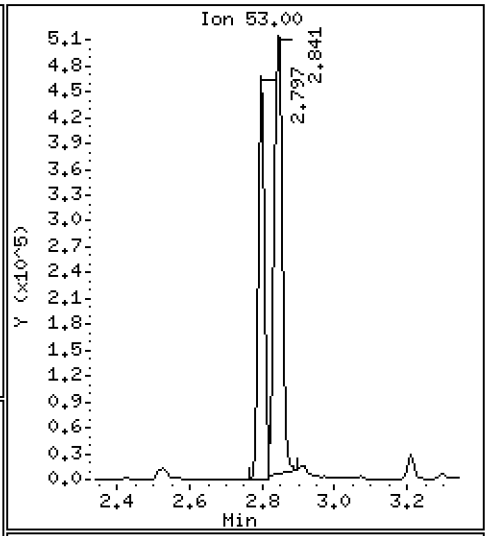
28 Acrylonitrile Concentration: 243.144 ug/L

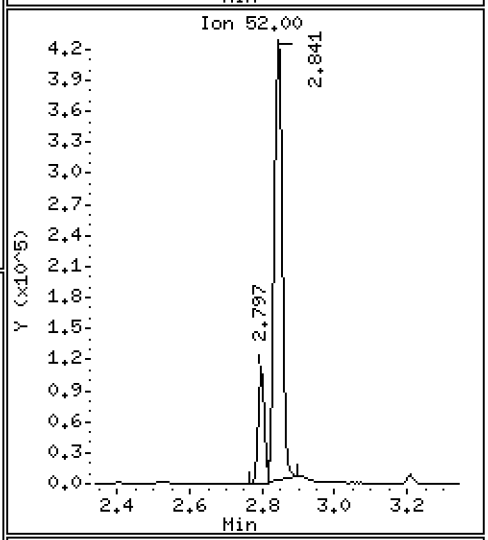


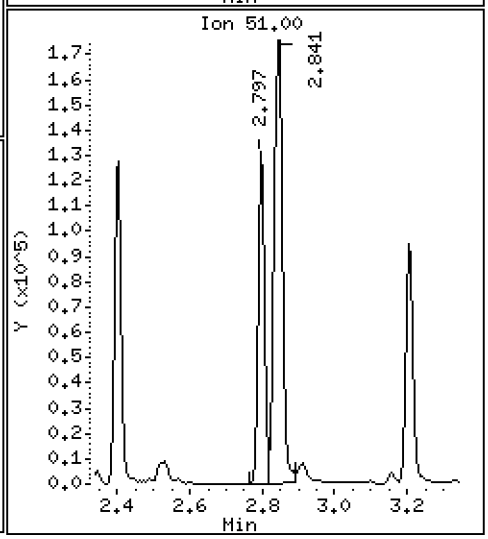












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 41

Date : 25-OCT-2016 09:17

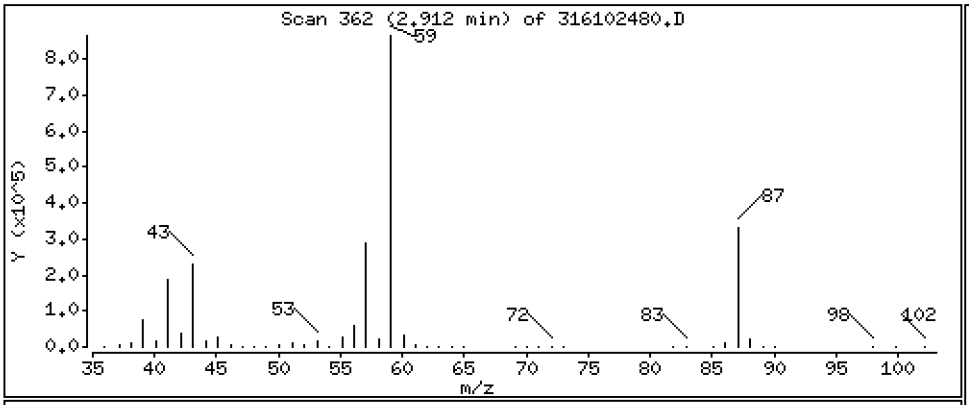
Client ID: Instrument: ms03.i

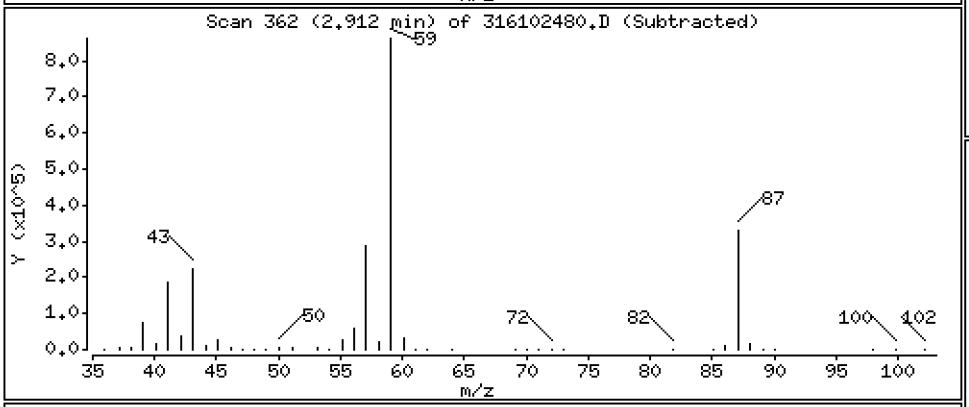
Sample Info: 1801;;1;2;4;;;

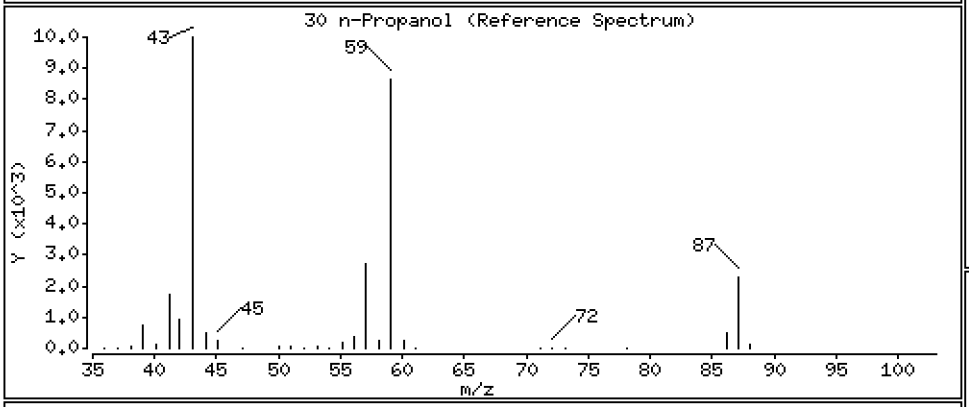
Purge Volume: 5.0 Operator: CJG

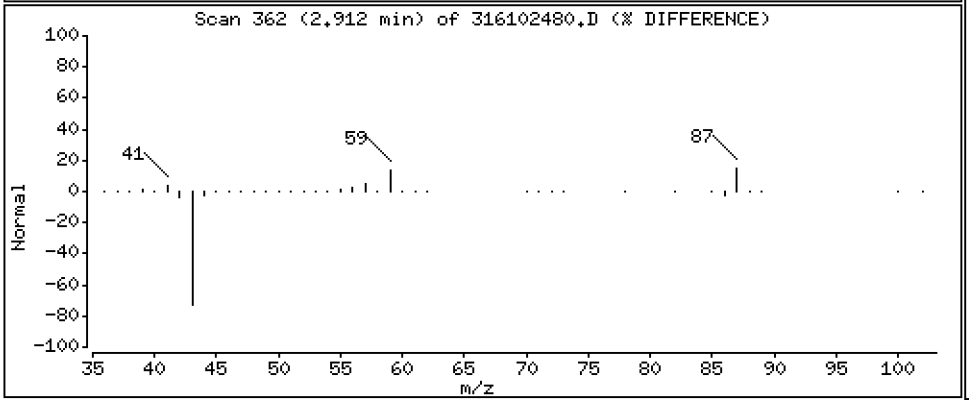
Column phase: DB-VRX Column diameter: 0.25

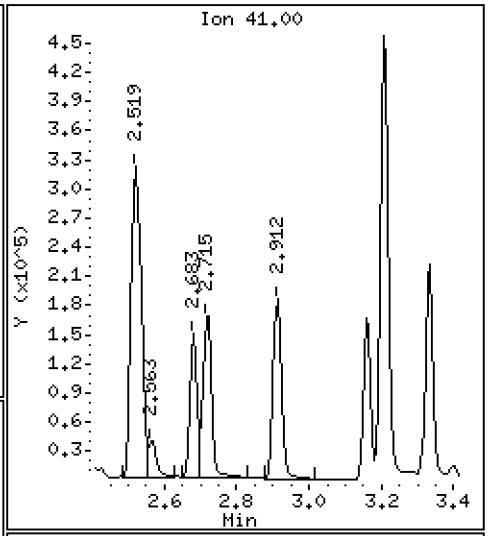
30 n-Propanol Concentration: 542.301 ug/L

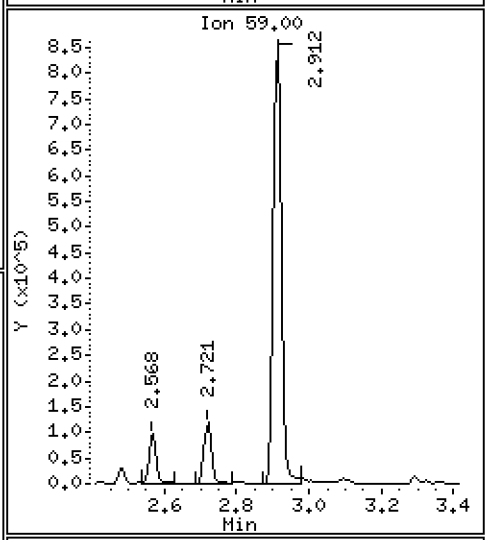


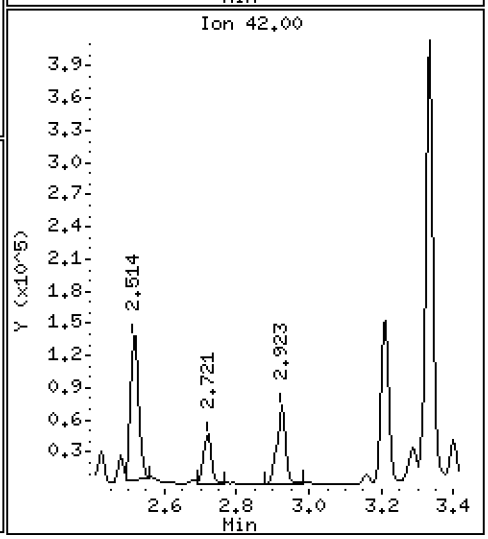












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 42

Date : 25-OCT-2016 09:17

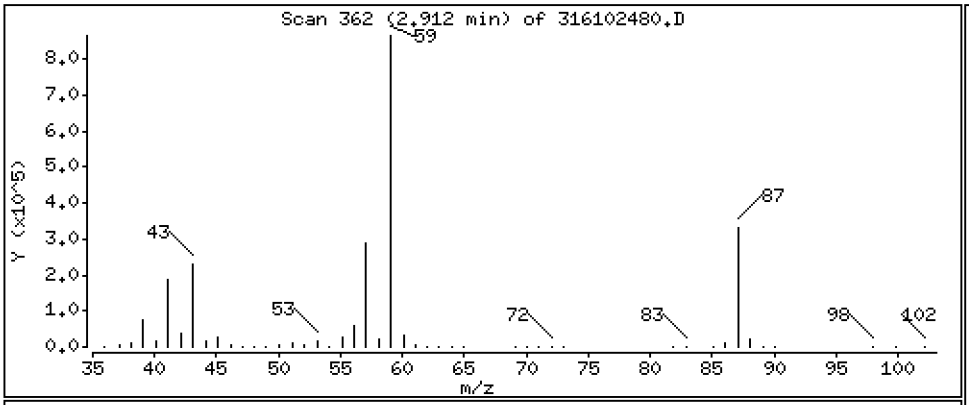
Client ID: Instrument: ms03.i

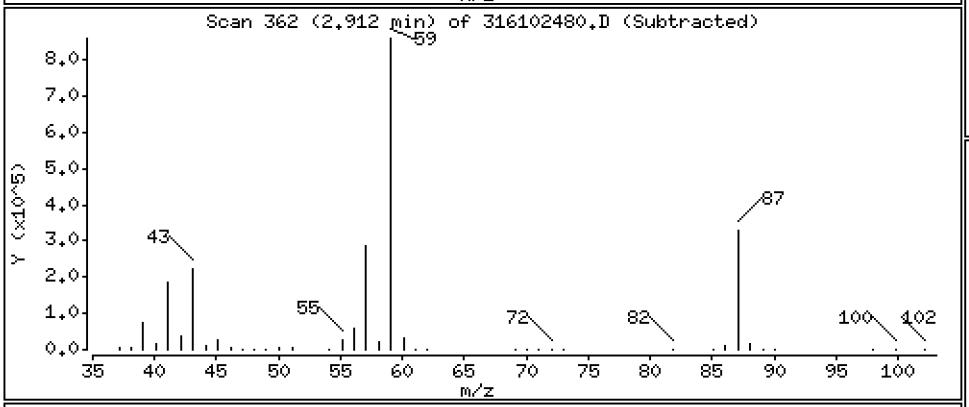
Sample Info: 1801;;1;2;4;;;

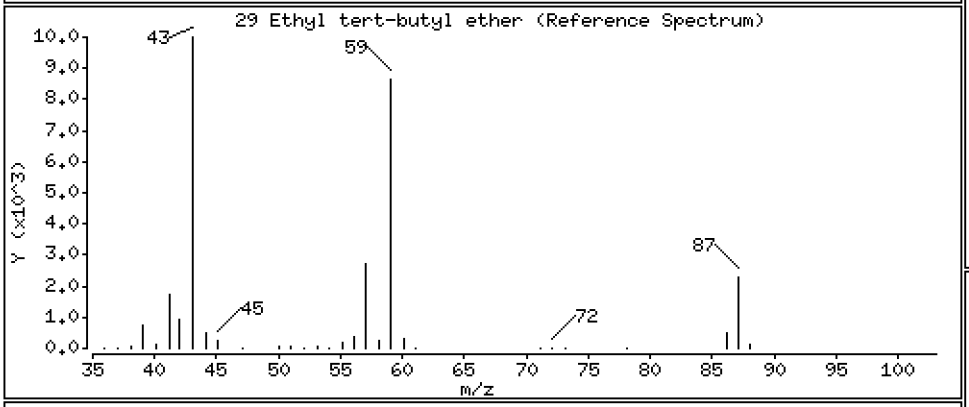
Purge Volume: 5.0 Operator: CJG

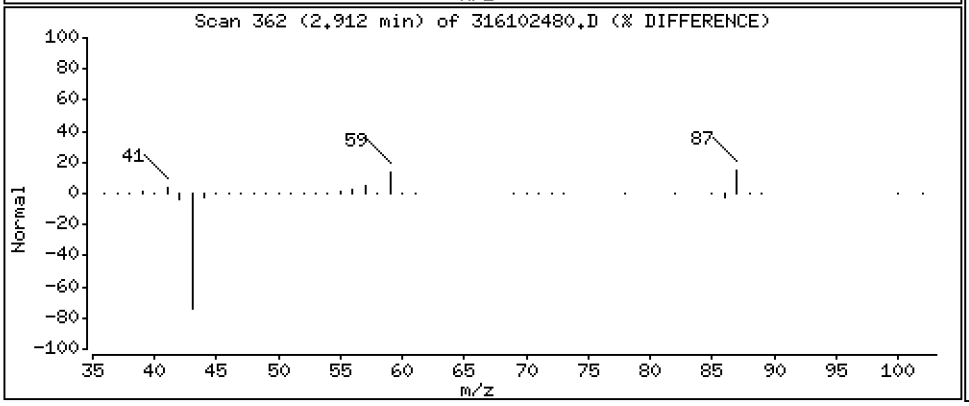
Column phase: DB-VRX Column diameter: 0.25

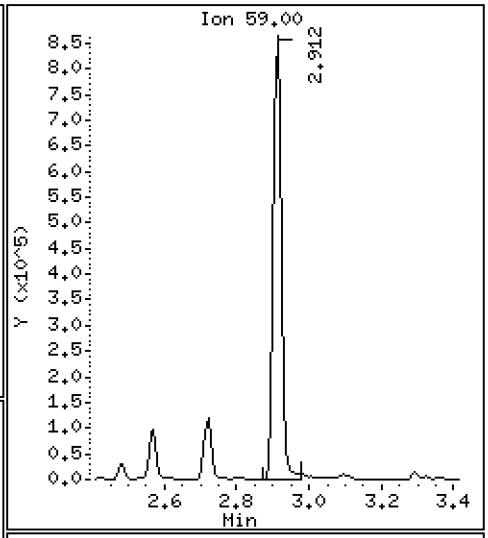
29 Ethyl tert-butyl ether Concentration: 49.3547 ug/L

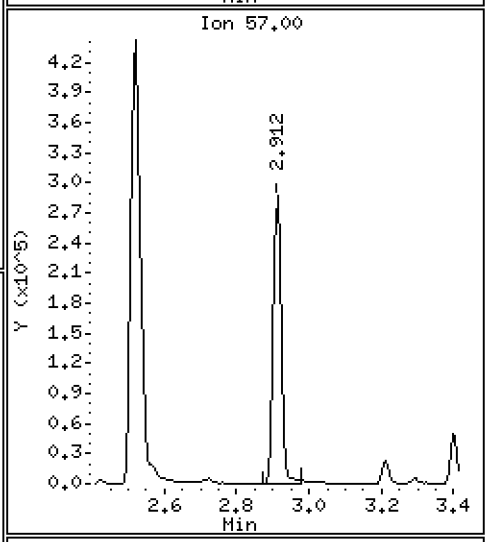


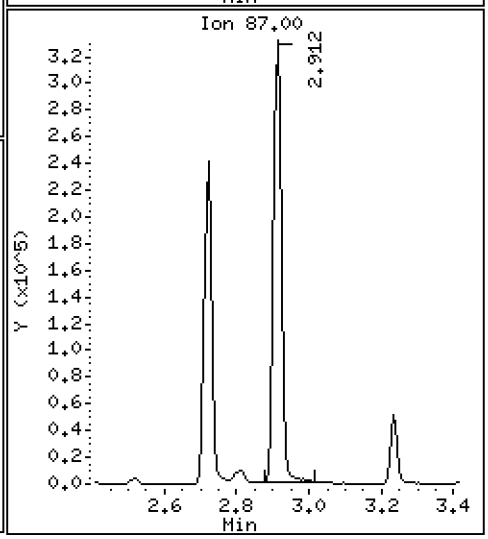












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 43

Date : 25-OCT-2016 09:17

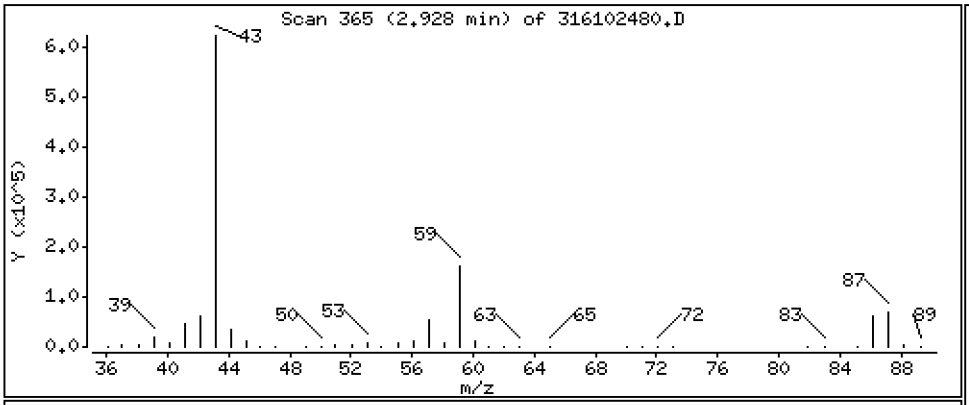
Client ID: Instrument: ms03.i

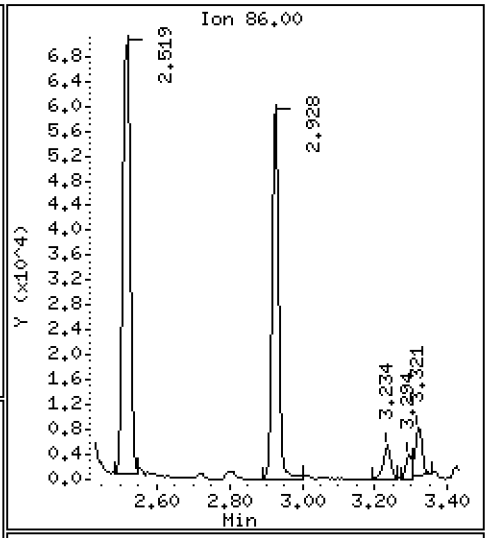
Sample Info: 1801;;1;2;4;;;

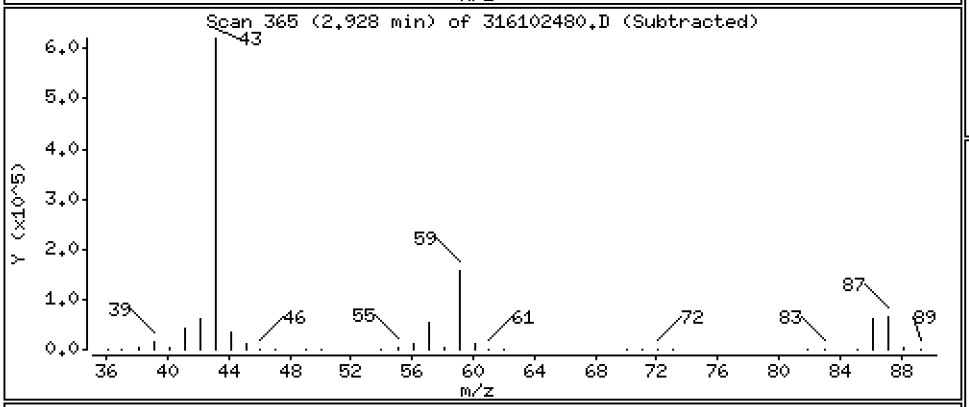
Purge Volume: 5.0 Operator: CJG

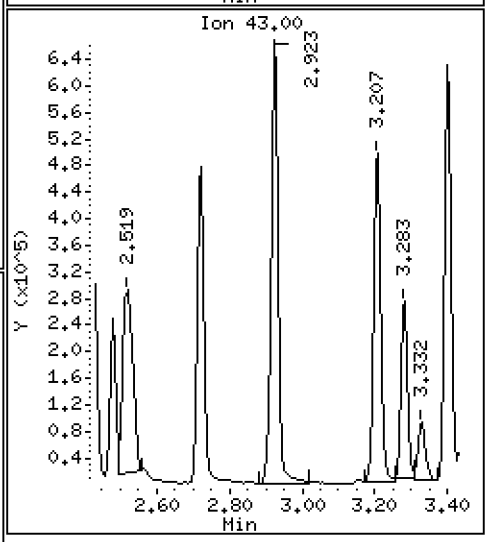
Column phase: DB-VRX Column diameter: 0.25

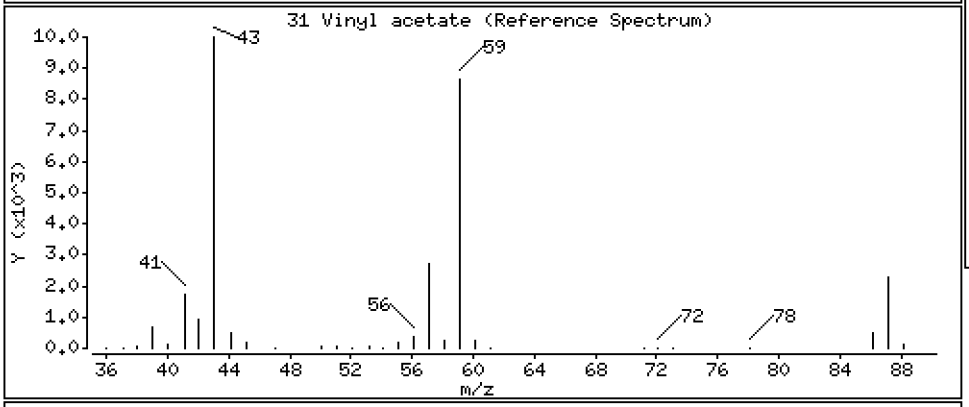
31 Vinyl acetate Concentration: 44.9020 ug/L

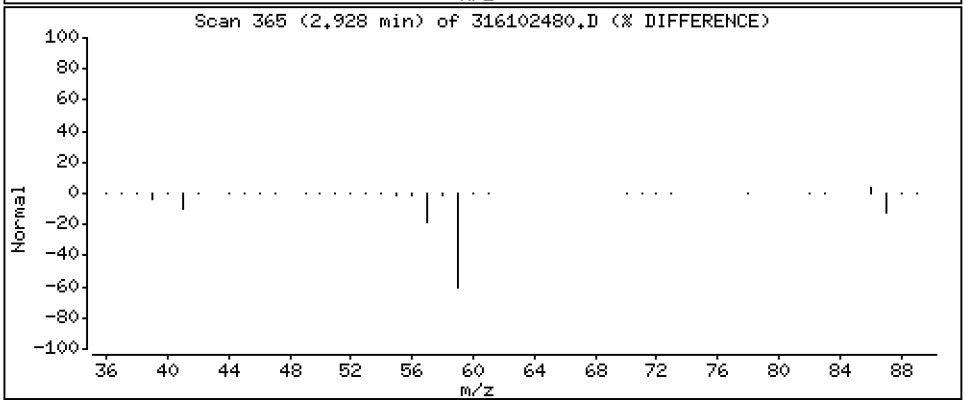












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 44

Date : 25-OCT-2016 09:17

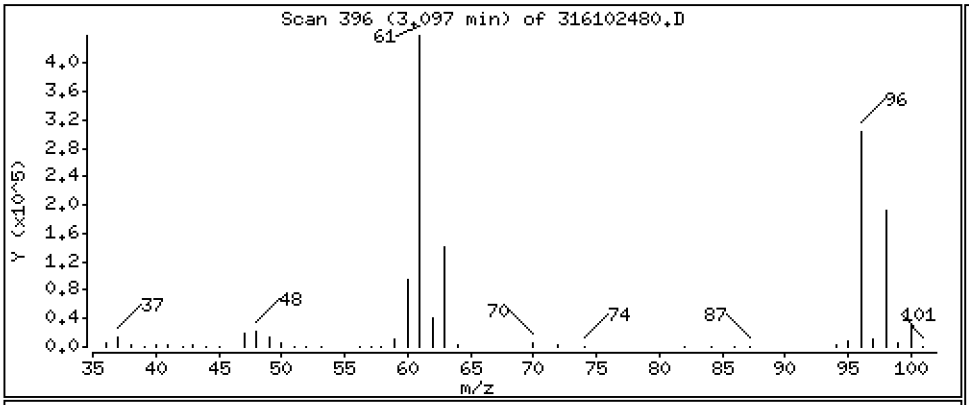
Client ID: Instrument: ms03.i

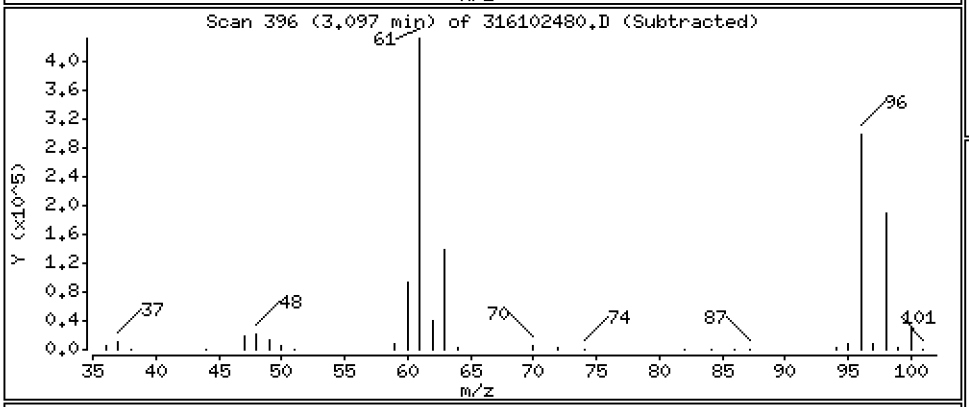
Sample Info: 1801;;1;2;4;;;

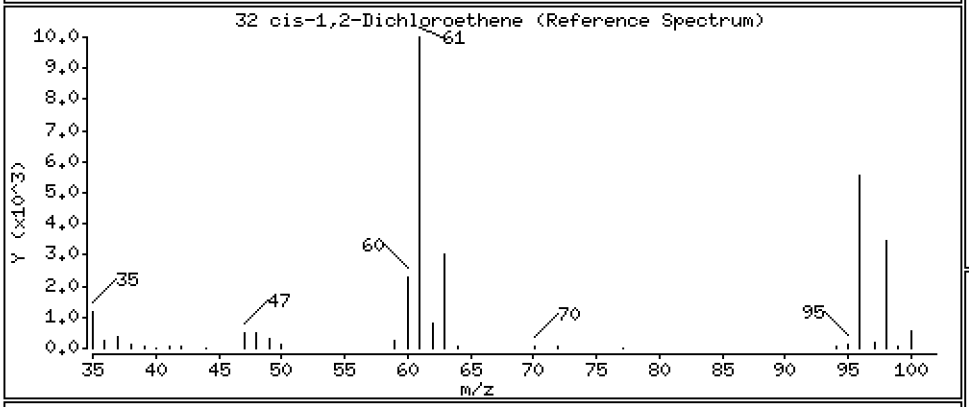
Purge Volume: 5.0 Operator: CJG

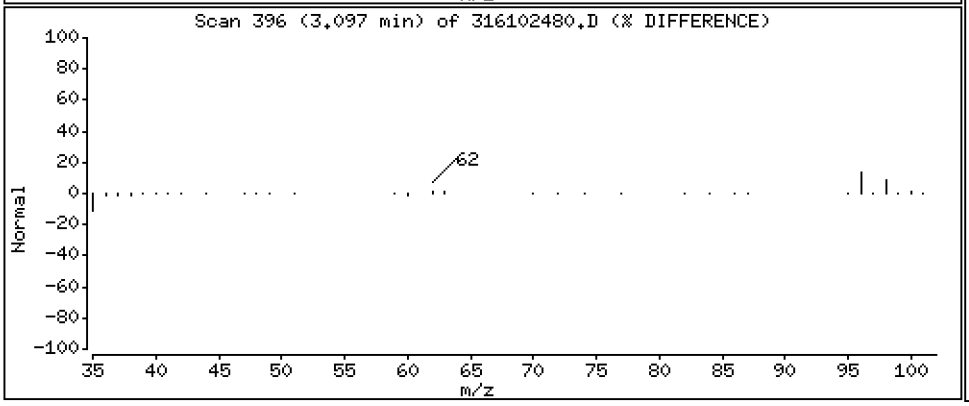
Column phase: DB-VRX Column diameter: 0.25

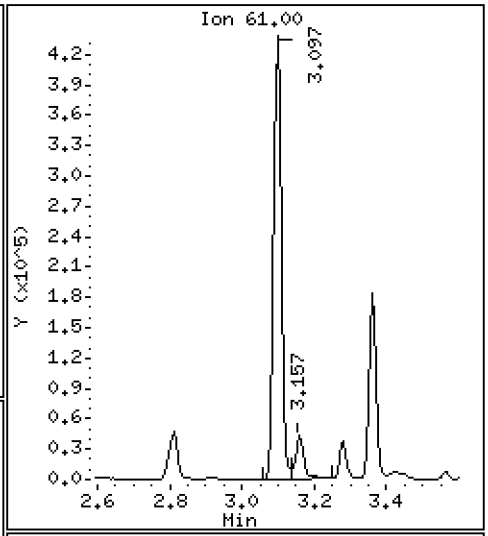
32 cis-1,2-Dichloroethene Concentration: 45.7703 ug/L

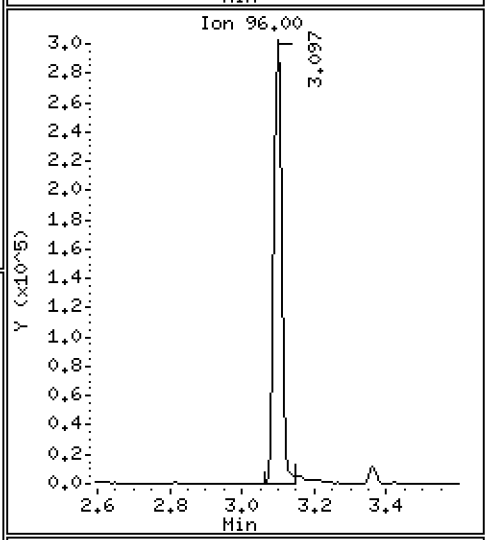


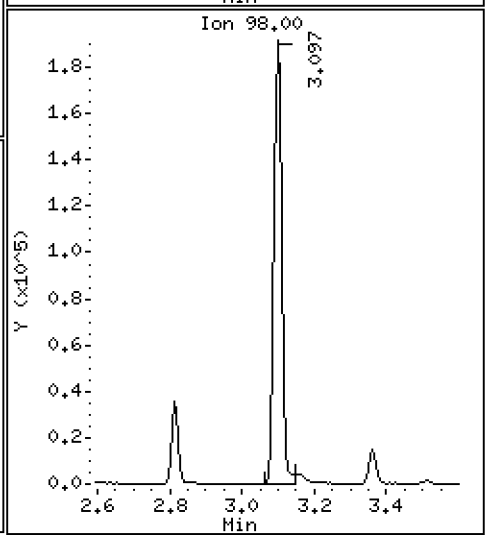












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 45

Date : 25-OCT-2016 09:17

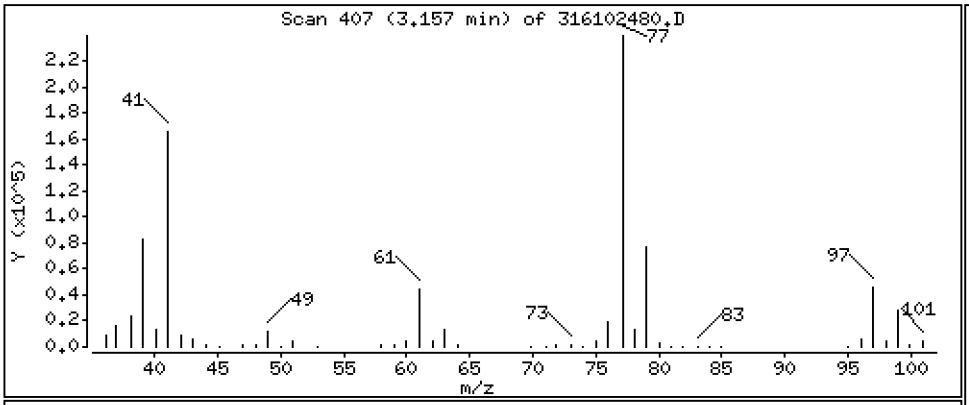
Client ID: Instrument: ms03.i

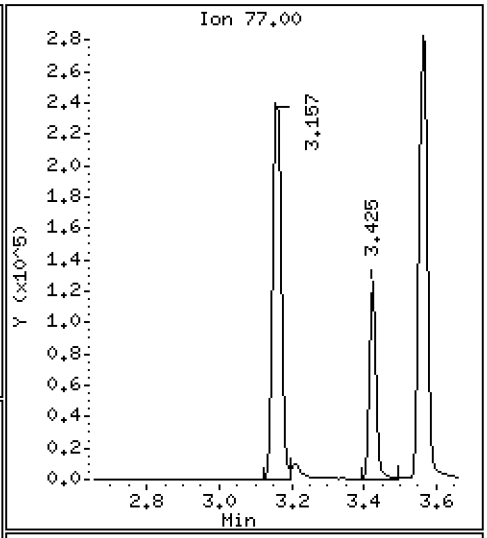
Sample Info: 1801;;1;2;4;;;

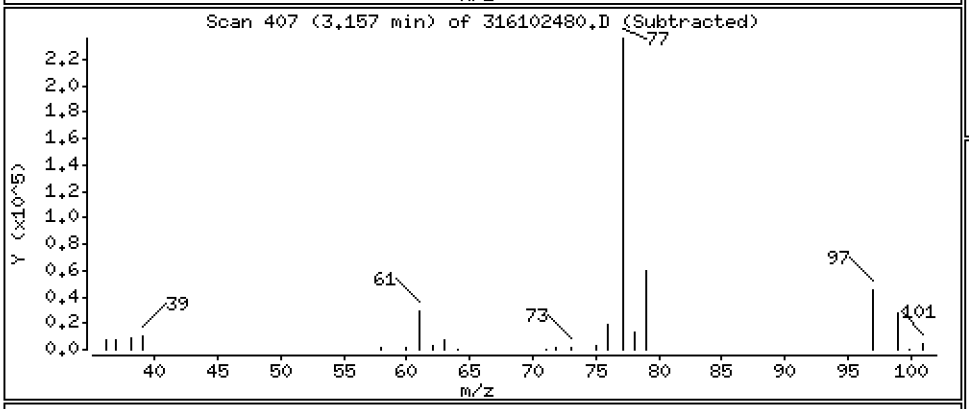
Purge Volume: 5.0 Operator: CJG

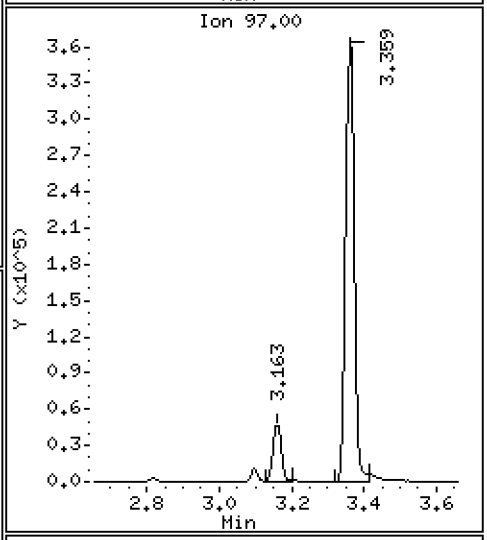
Column phase: DB-VRX Column diameter: 0.25

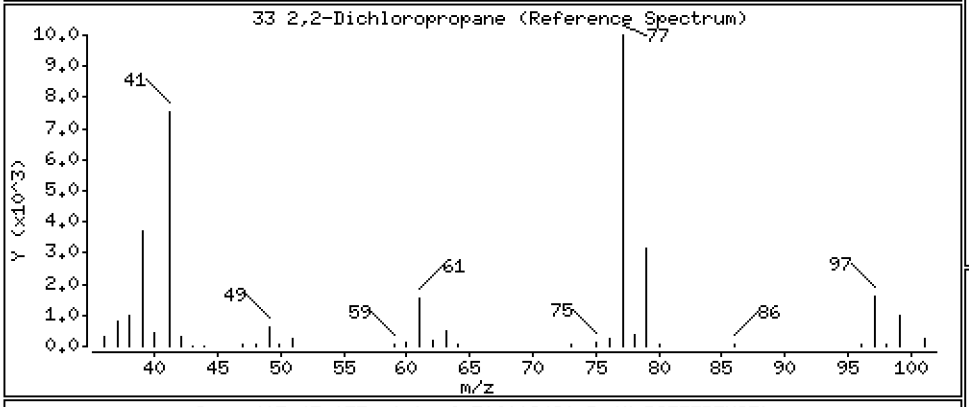
33 2,2-Dichloropropane Concentration: 35.1598 ug/L

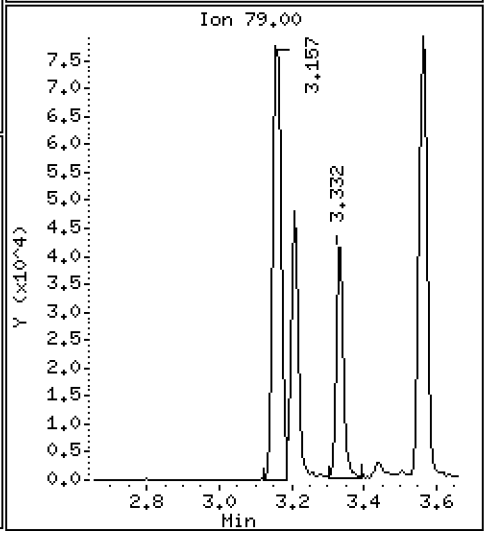


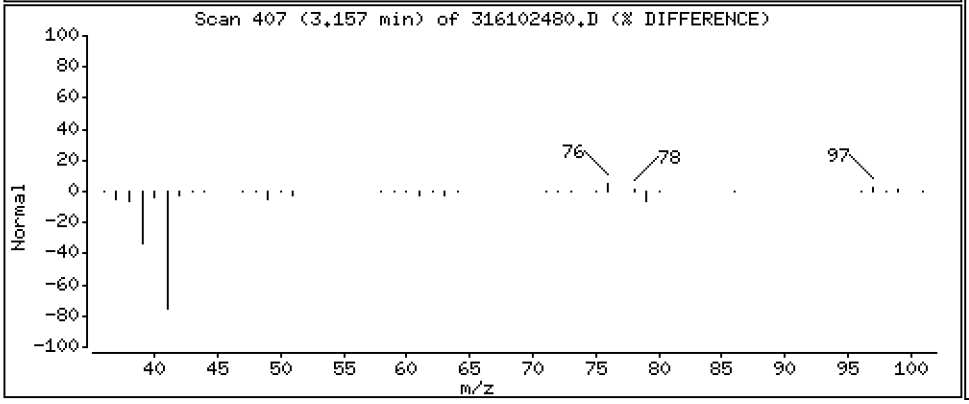












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 46

Date : 25-OCT-2016 09:17

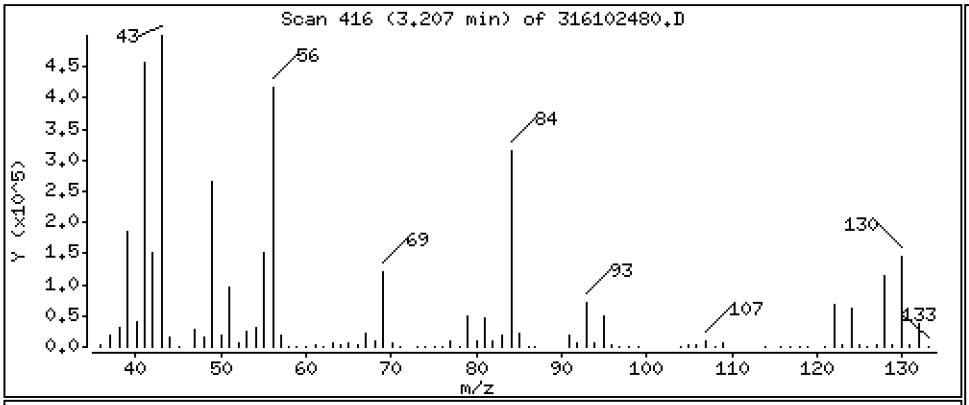
Client ID: Instrument: ms03.i

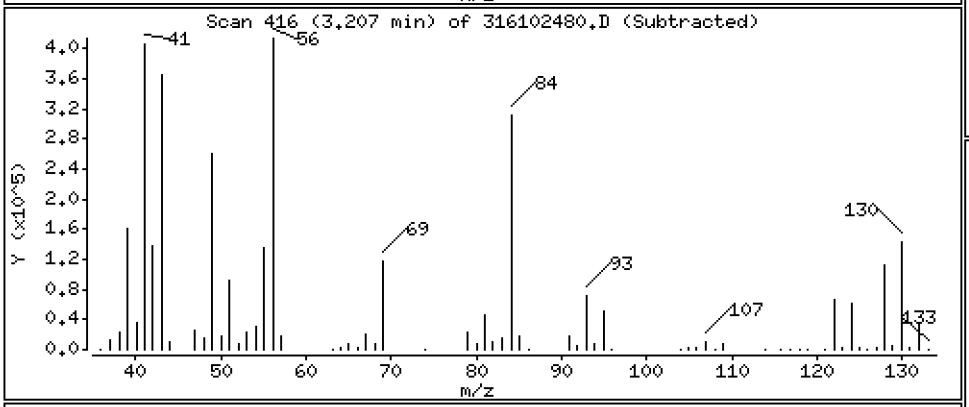
Sample Info: 1801;;1;2;4;;;

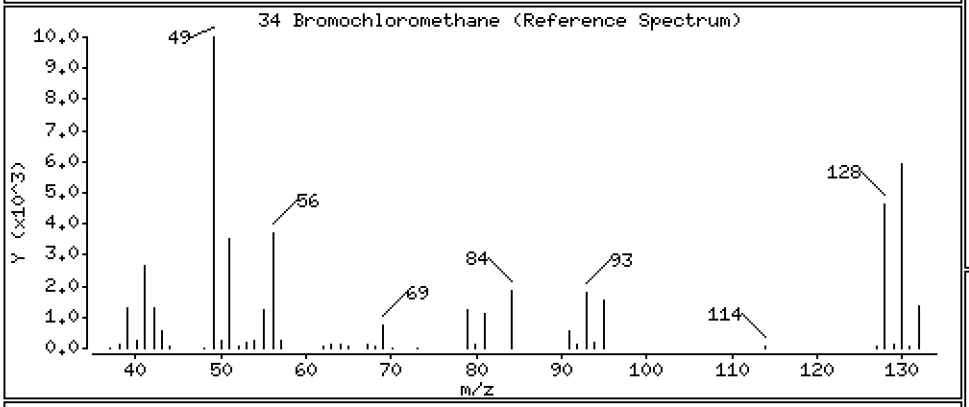
Purge Volume: 5.0 Operator: CJG

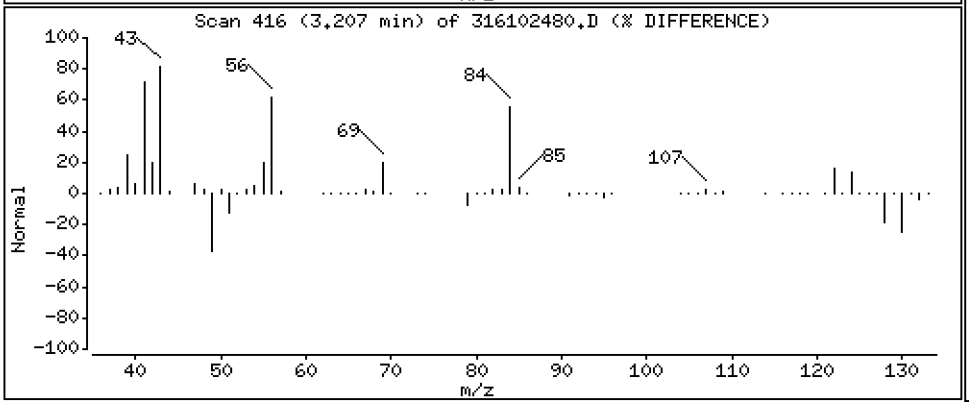
Column phase: DB-VRX Column diameter: 0.25

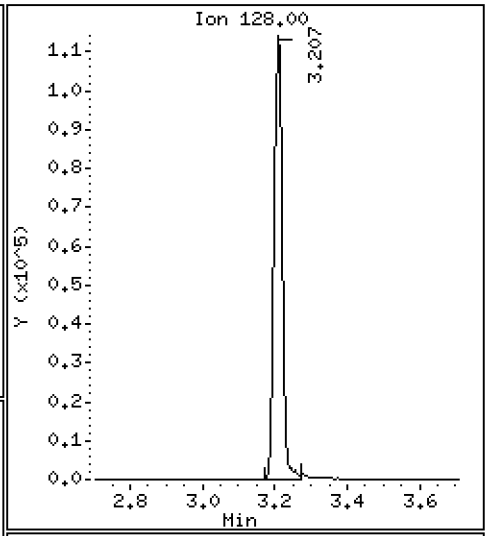
34 Bromochloromethane Concentration: 46.0563 ug/L

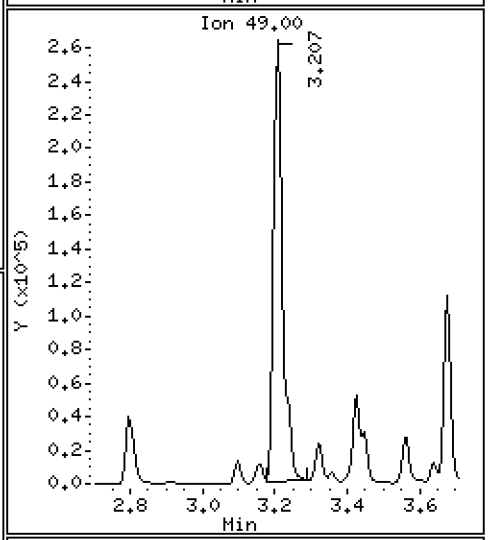


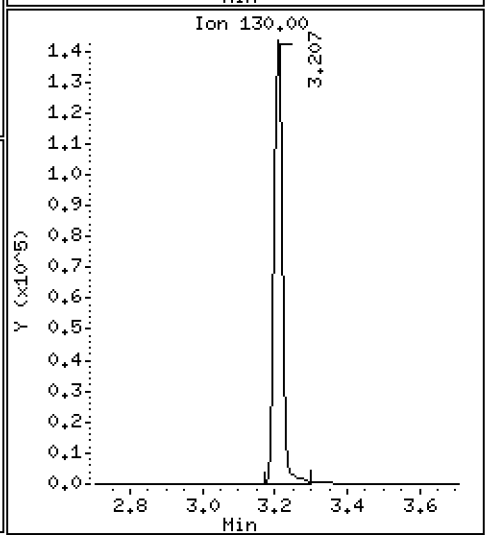












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 47

Date : 25-OCT-2016 09:17

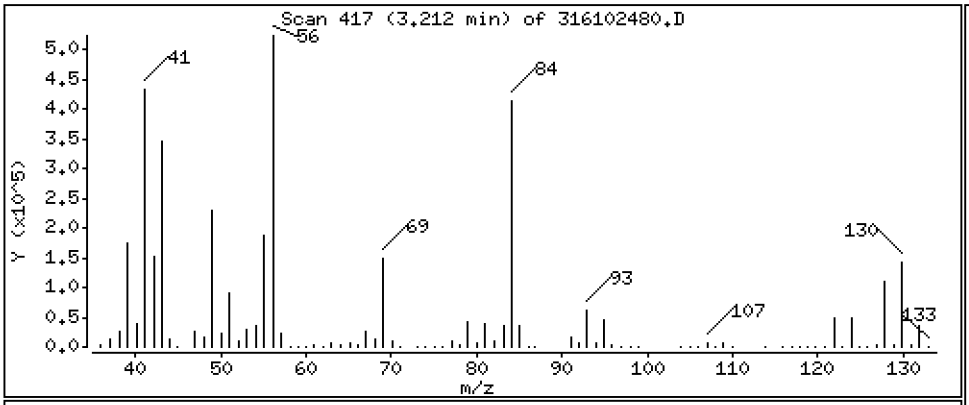
Client ID: Instrument: ms03.i

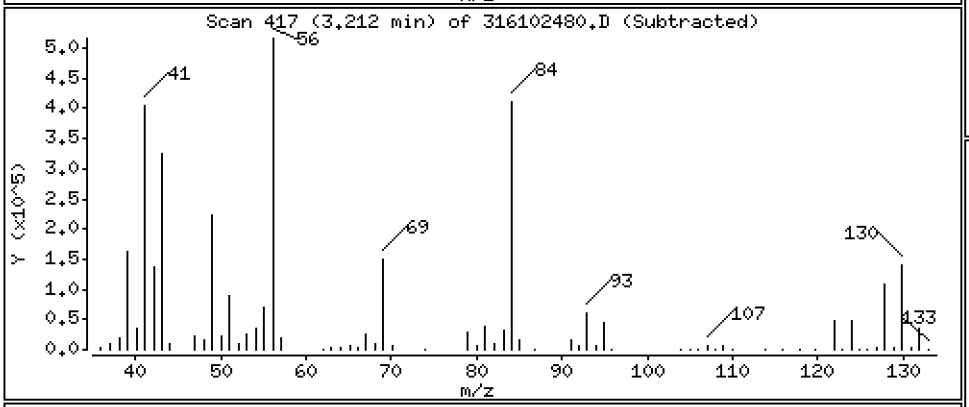
Sample Info: 1801;;1;2;4;;;

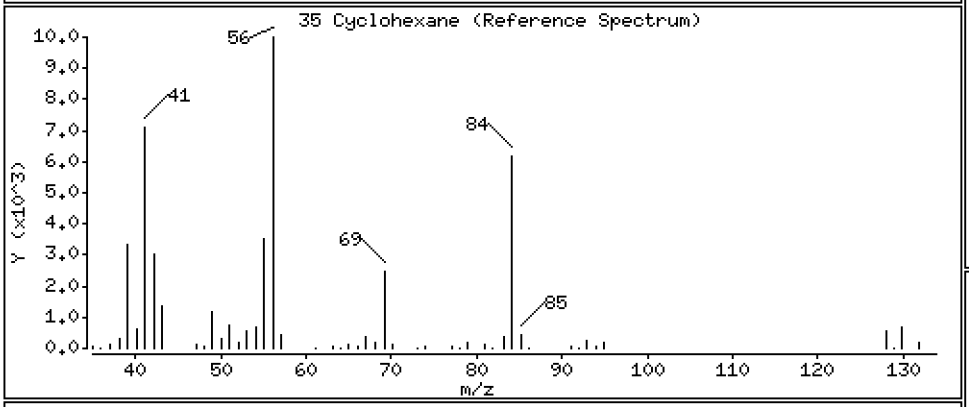
Purge Volume: 5.0 Operator: CJG

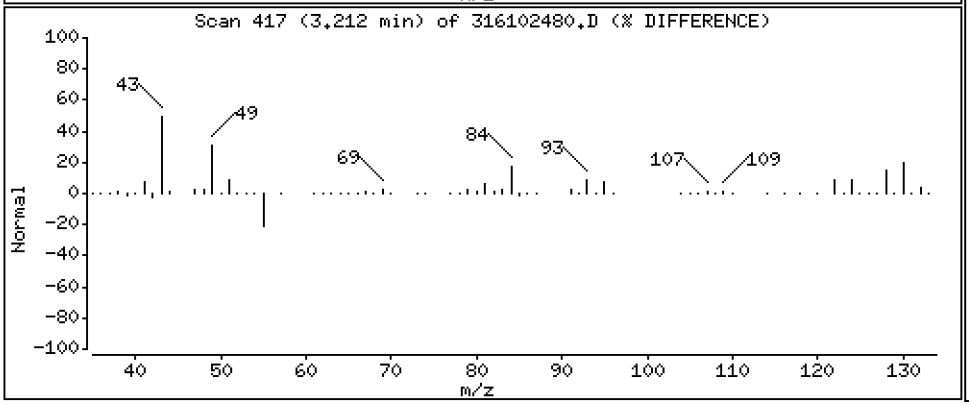
Column phase: DB-VRX Column diameter: 0.25

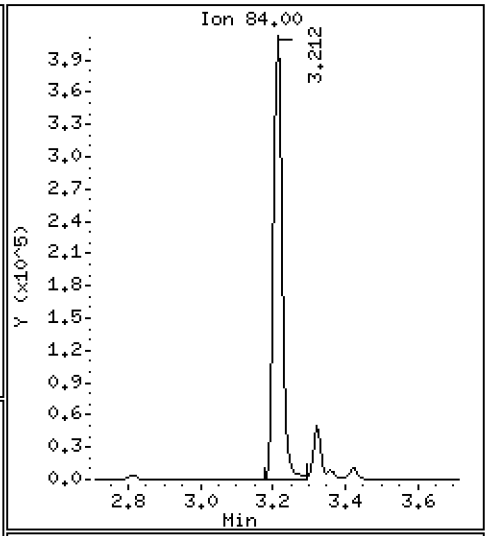
35 Cyclohexane Concentration: 45.5602 ug/L

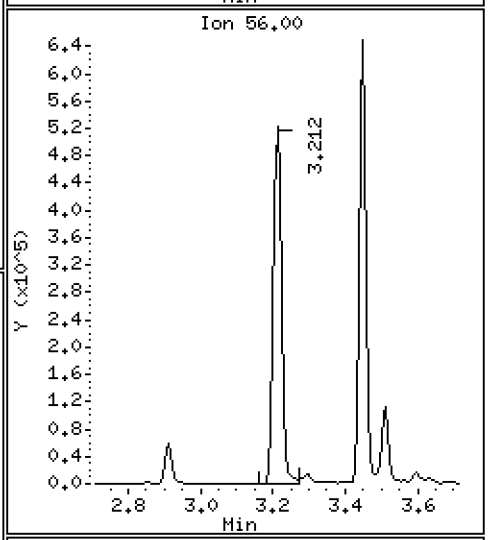


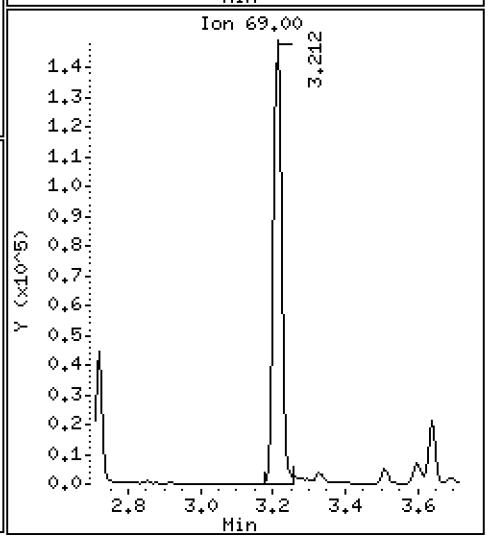












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 48

Date : 25-OCT-2016 09:17

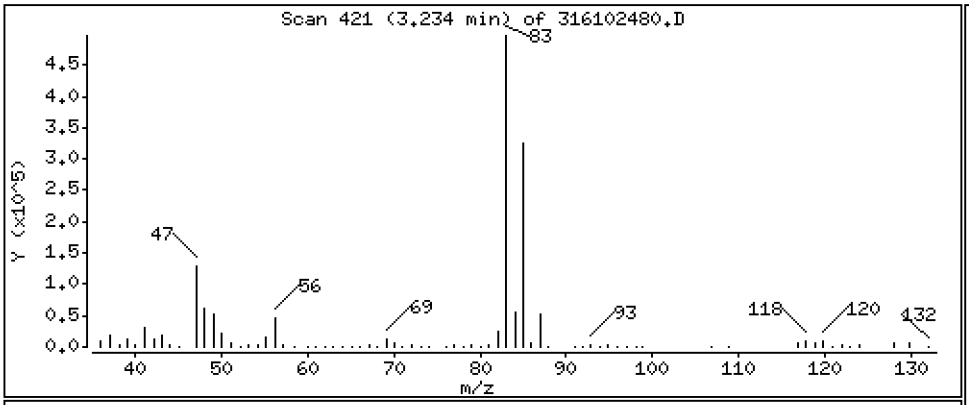
Client ID: Instrument: ms03.i

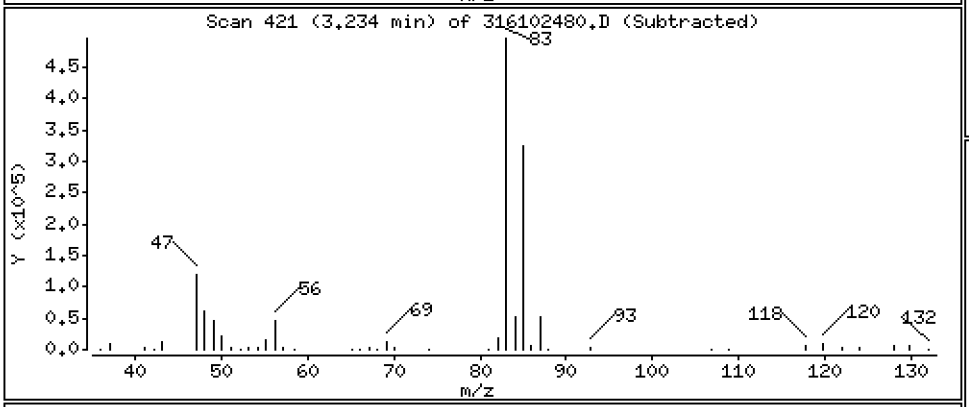
Sample Info: 1801;;1;2;4;;;

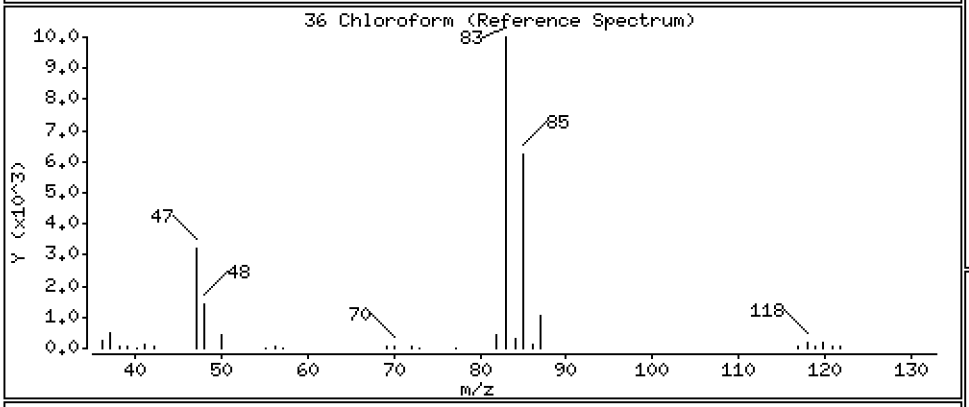
Purge Volume: 5.0 Operator: CJG

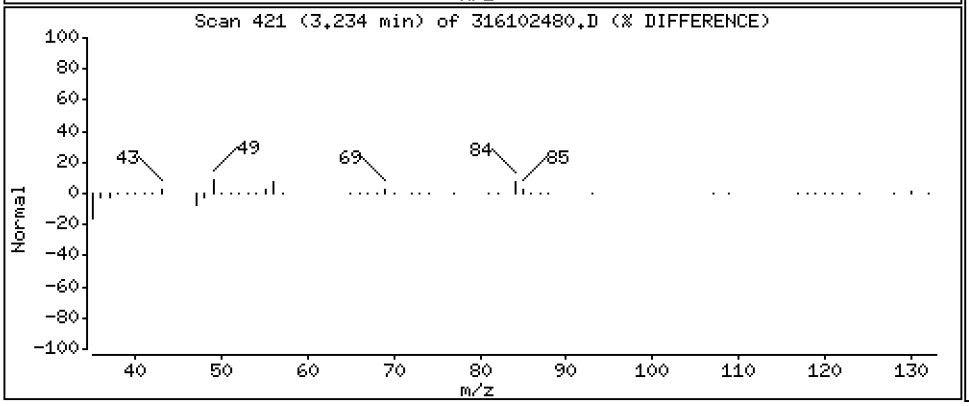
Column phase: DB-VRX Column diameter: 0.25

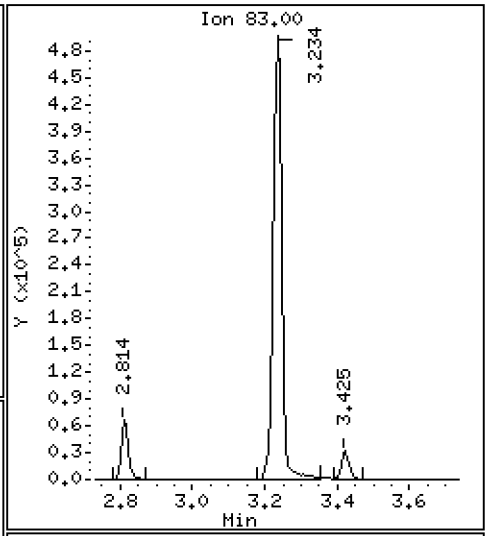
36 Chloroform Concentration: 49.1857 ug/L

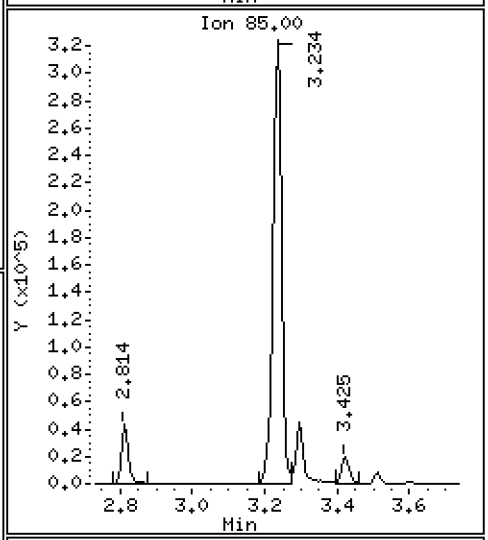


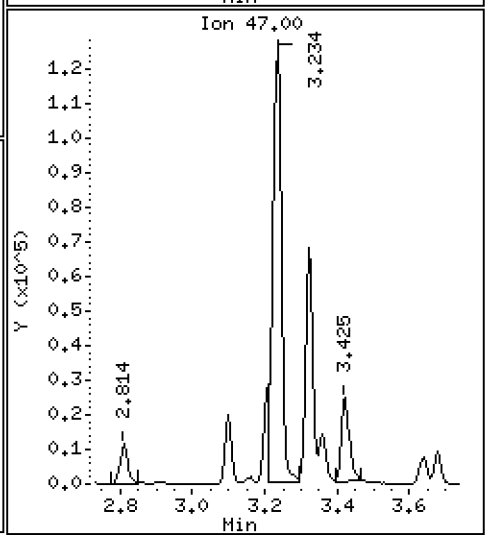












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 49

Date : 25-OCT-2016 09:17

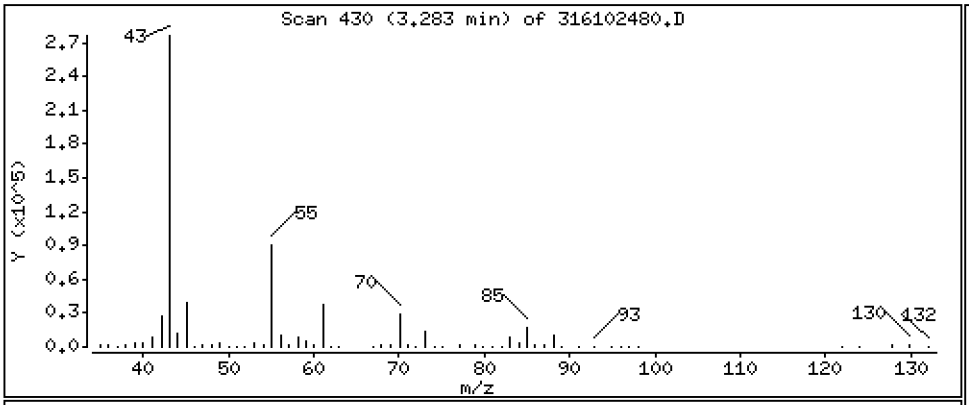
Client ID: Instrument: ms03.i

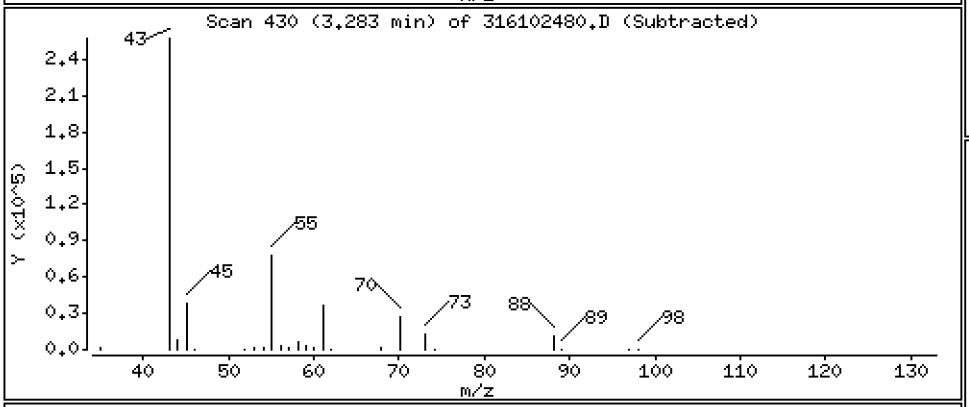
Sample Info: 1801;;1;2;4;;;

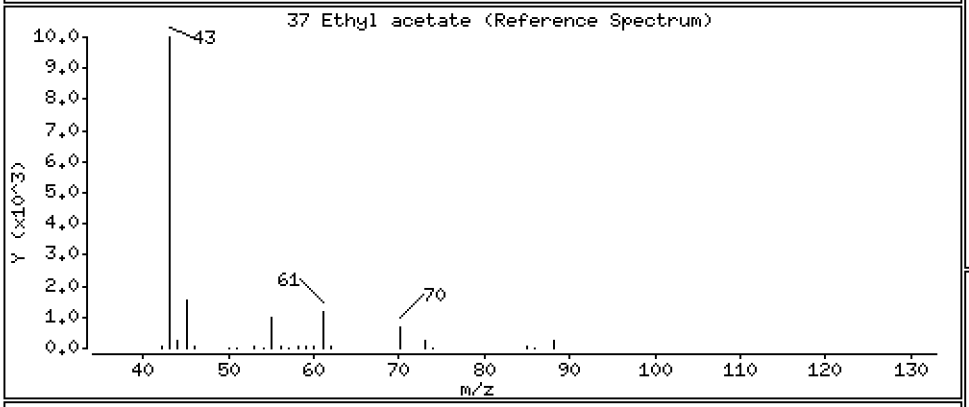
Purge Volume: 5.0 Operator: CJG

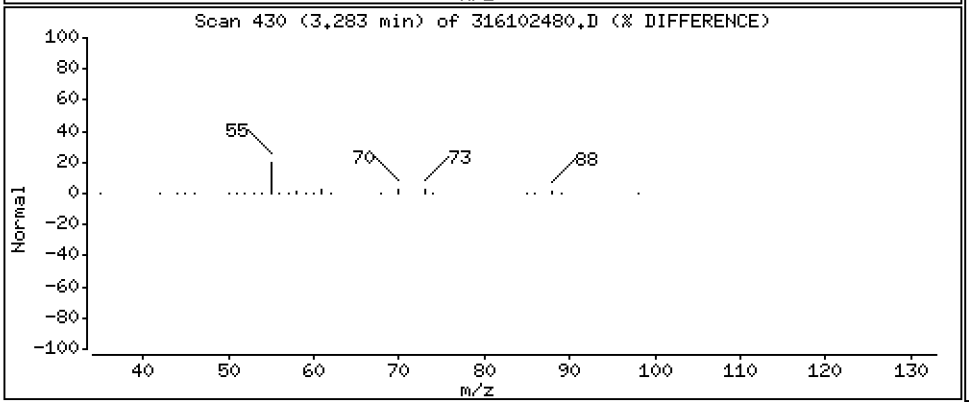
Column phase: DB-VRX Column diameter: 0.25

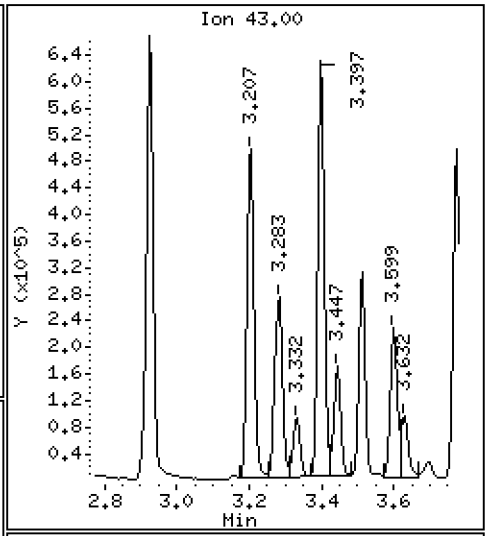
37 Ethyl acetate Concentration: 51.5948 ug/L

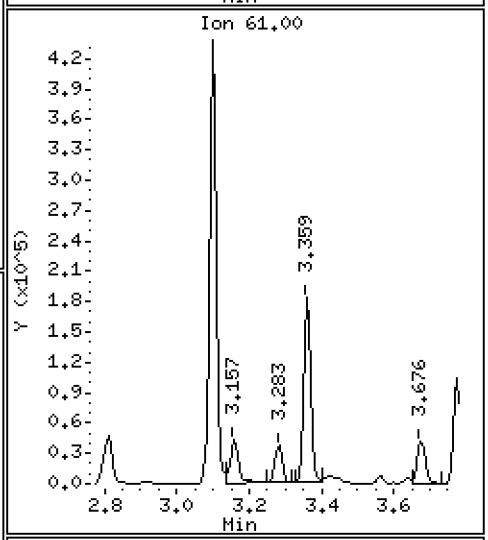


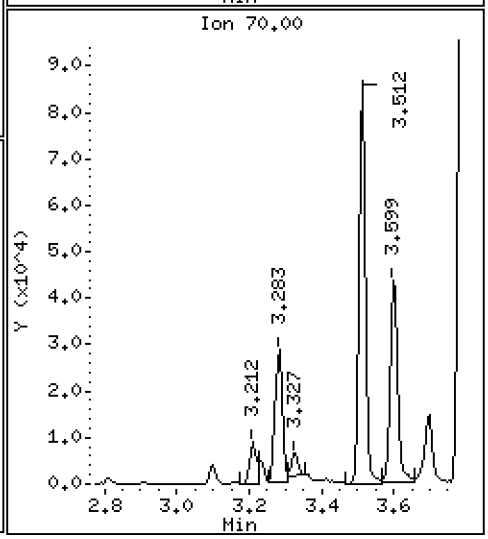












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 50

Date : 25-OCT-2016 09:17

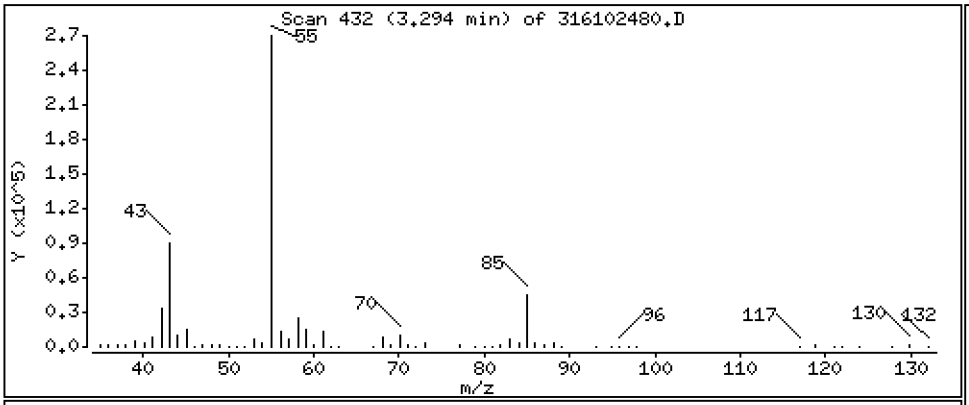
Client ID: Instrument: ms03.i

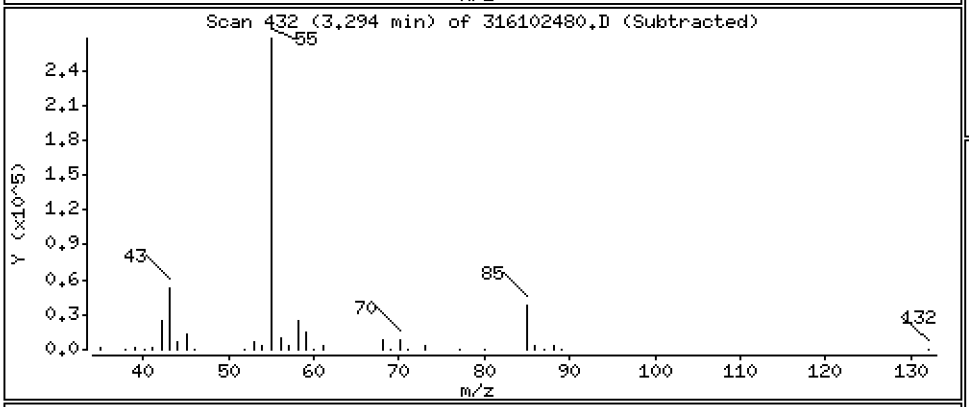
Sample Info: 1801;;1;2;4;;;

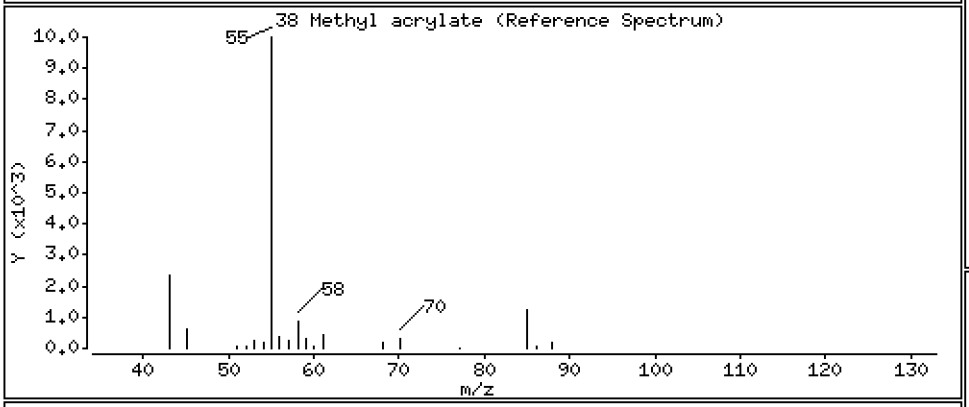
Purge Volume: 5.0 Operator: CJG

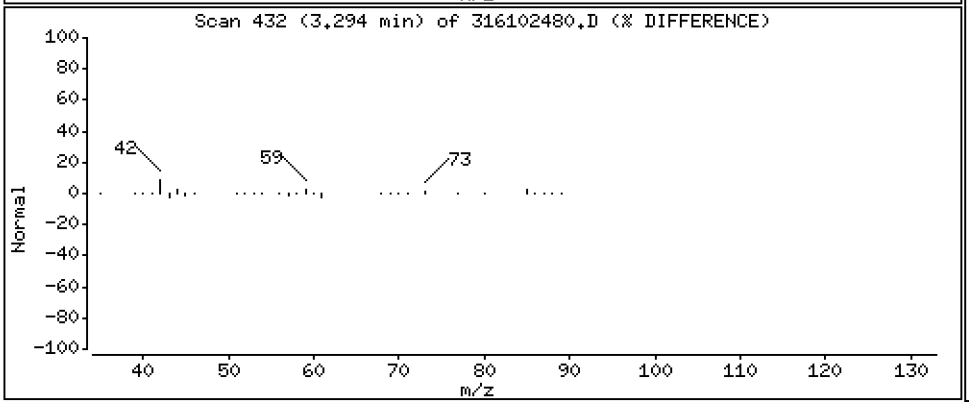
Column phase: DB-VRX Column diameter: 0.25

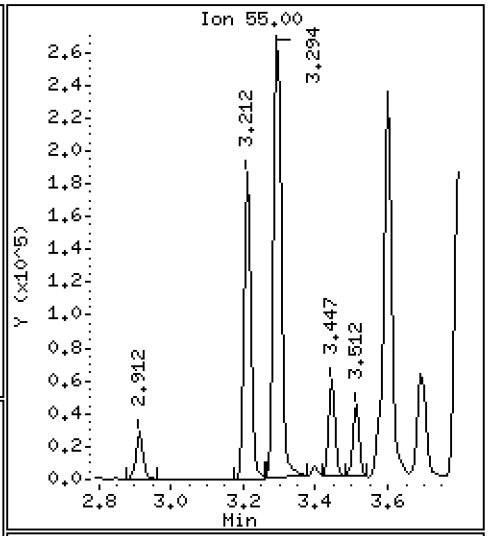
38 Methyl acrylate Concentration: 50.8347 ug/L

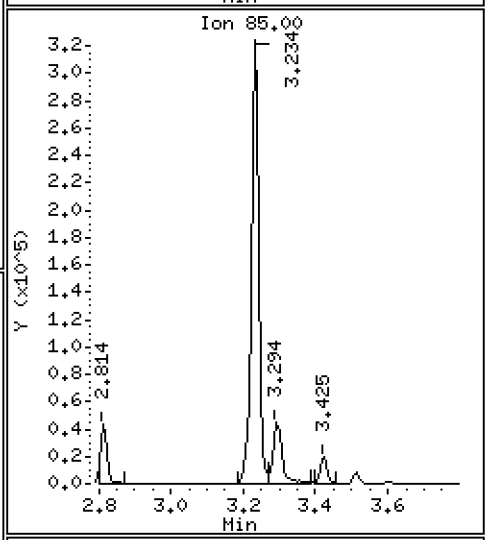


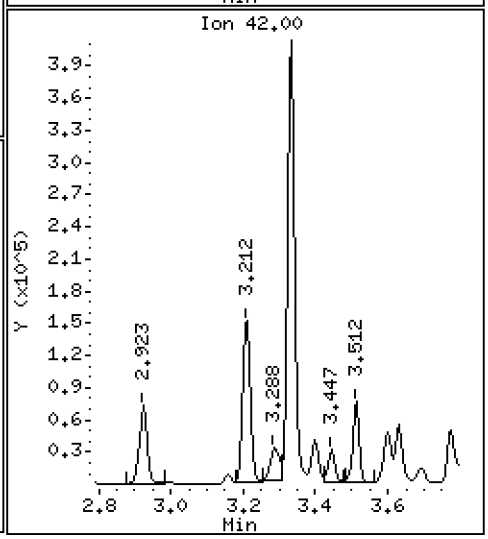












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 51

Date : 25-OCT-2016 09:17

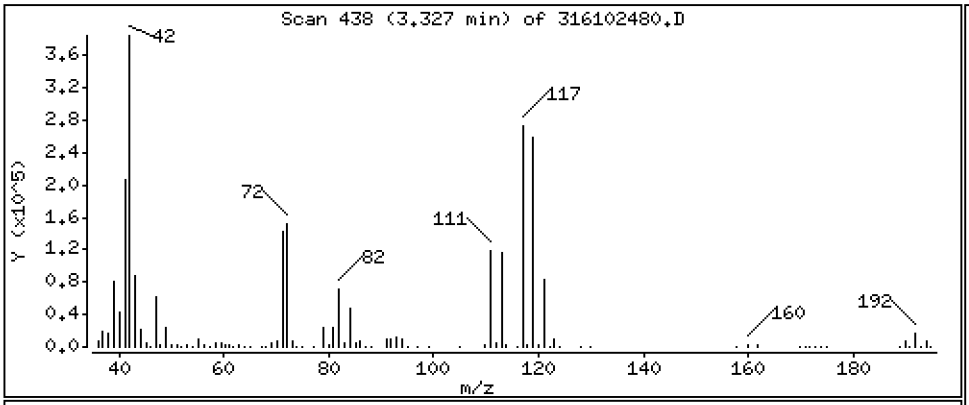
Client ID: Instrument: ms03.i

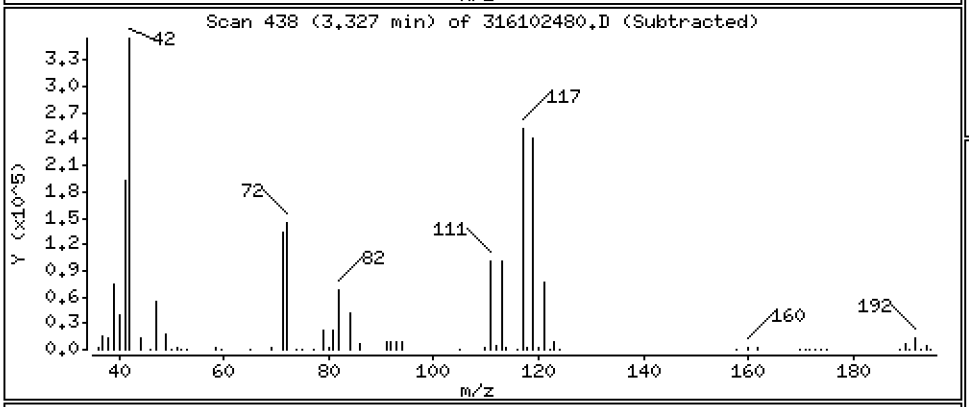
Sample Info: 1801;;1;2;4;;;

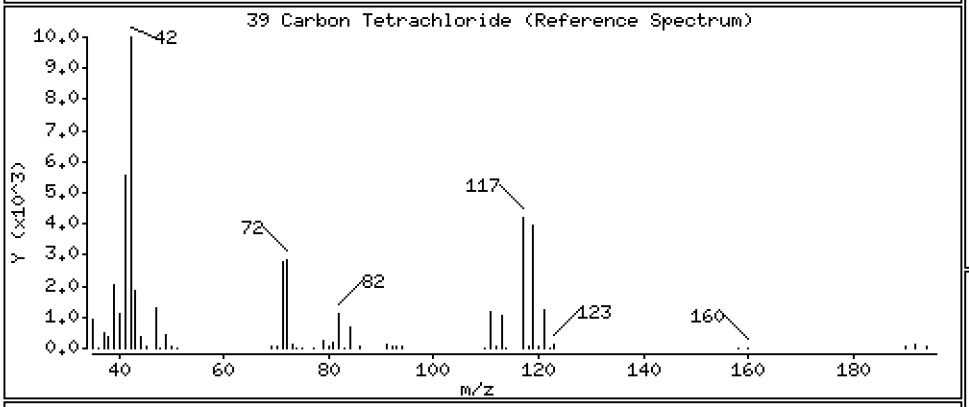
Purge Volume: 5.0 Operator: CJG

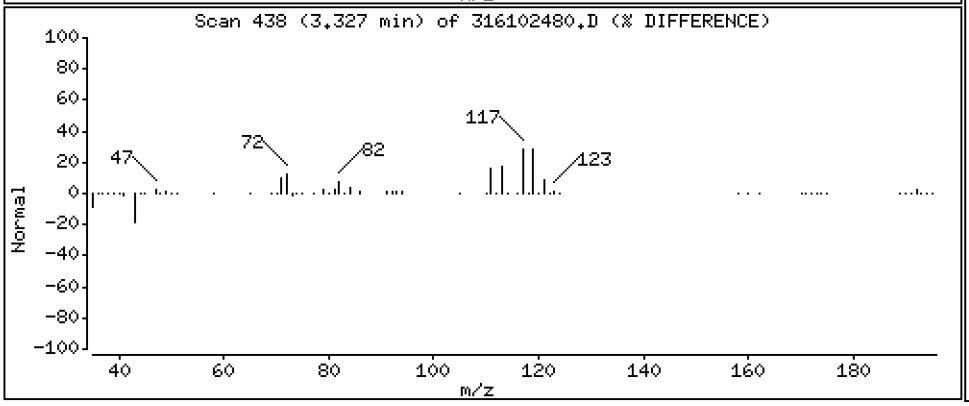
Column phase: DB-VRX Column diameter: 0.25

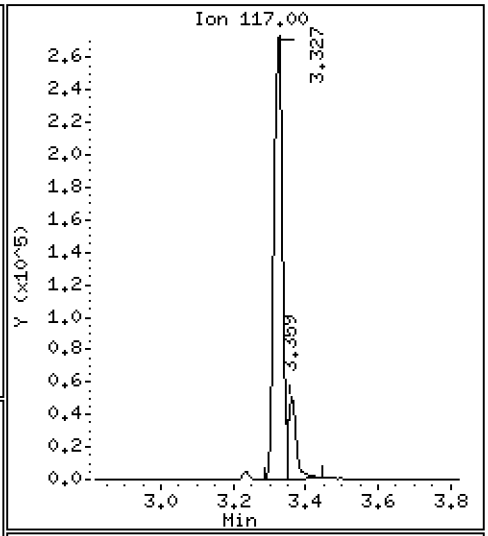
39 Carbon Tetrachloride Concentration: 46.6262 ug/L

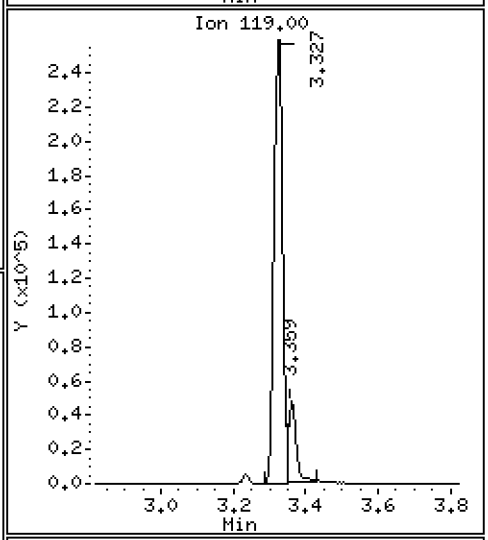


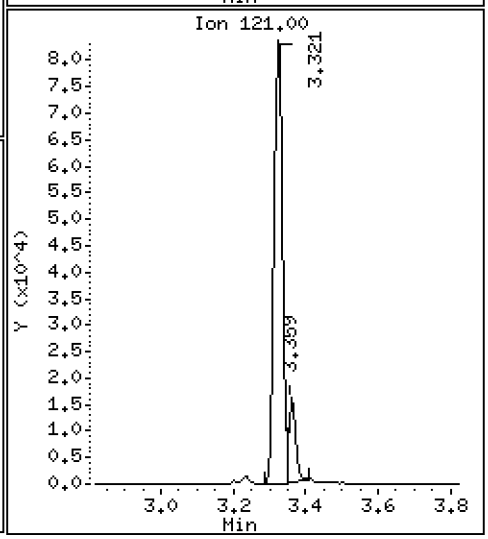












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 52

Date : 25-OCT-2016 09:17

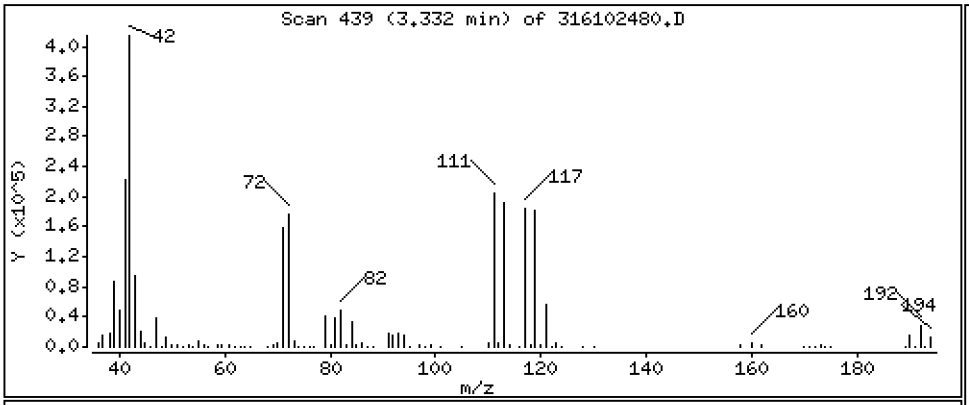
Client ID: Instrument: ms03.i

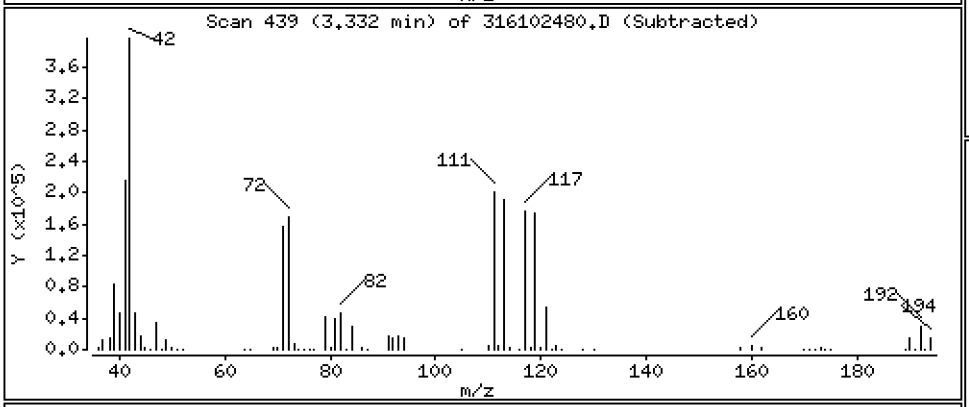
Sample Info: 1801;;1;2;4;;;

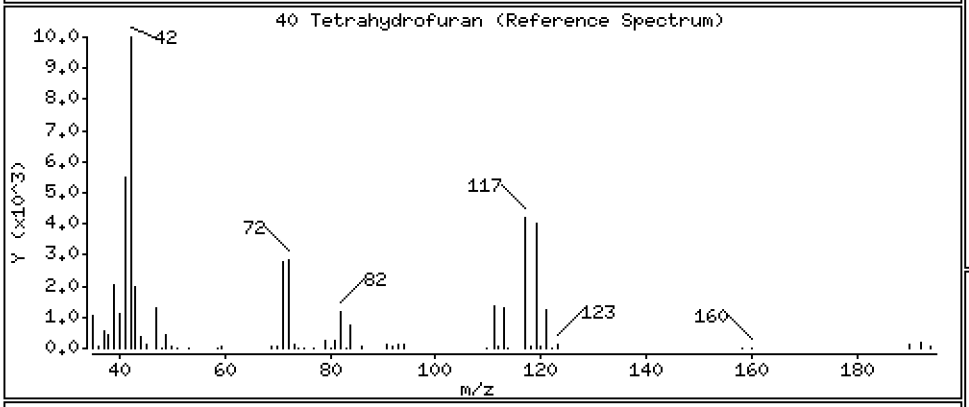
Purge Volume: 5.0 Operator: CJG

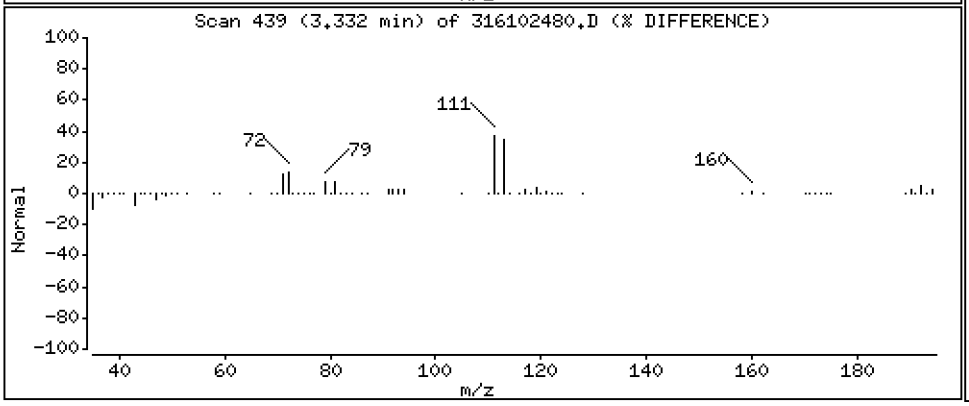
Column phase: DB-VRX Column diameter: 0.25

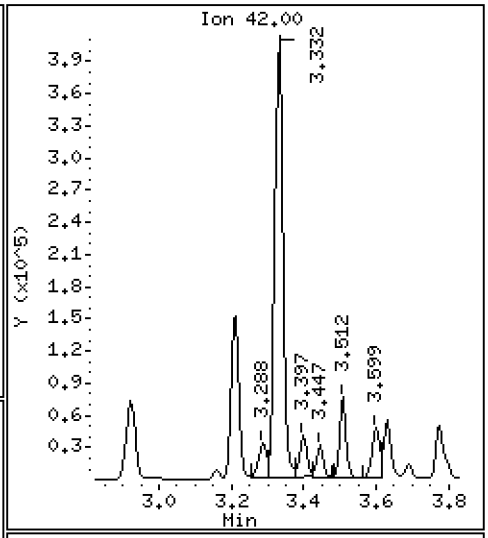
40 Tetrahydrofuran Concentration: 258.350 ug/L

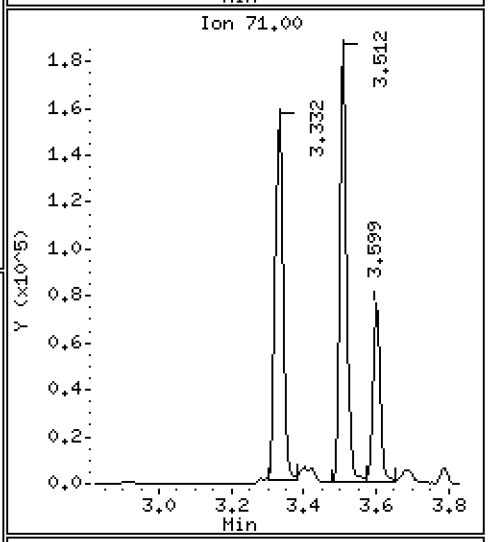


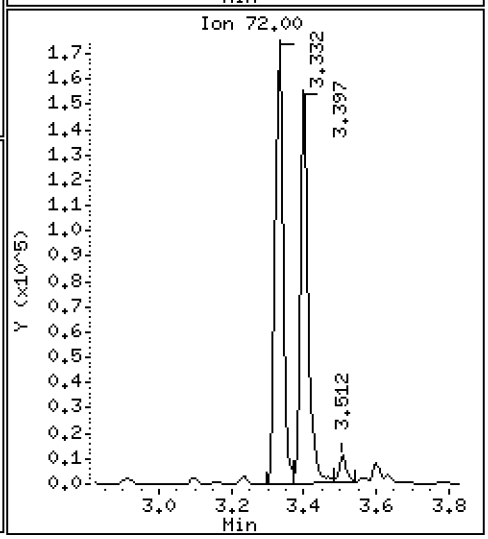












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 53

Date : 25-OCT-2016 09:17

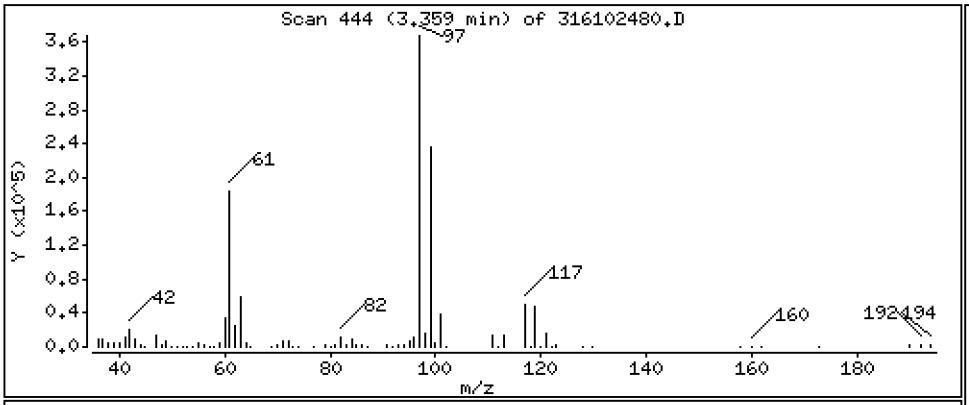
Client ID: Instrument: ms03.i

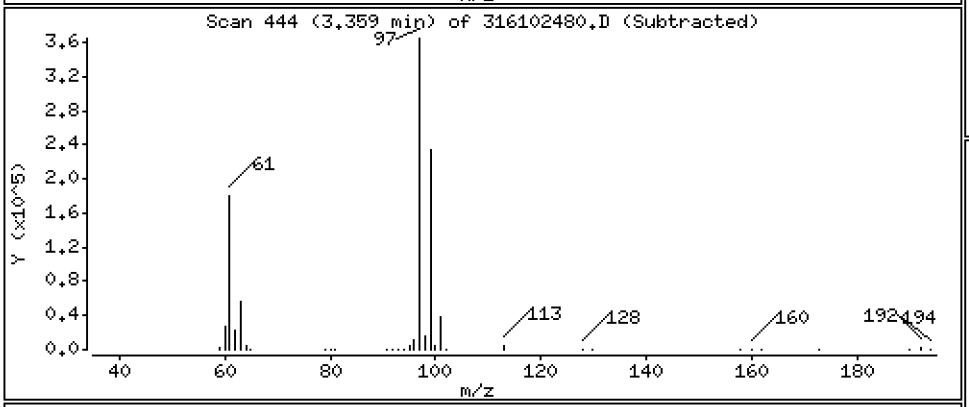
Sample Info: 1801;;1;2;4;;;

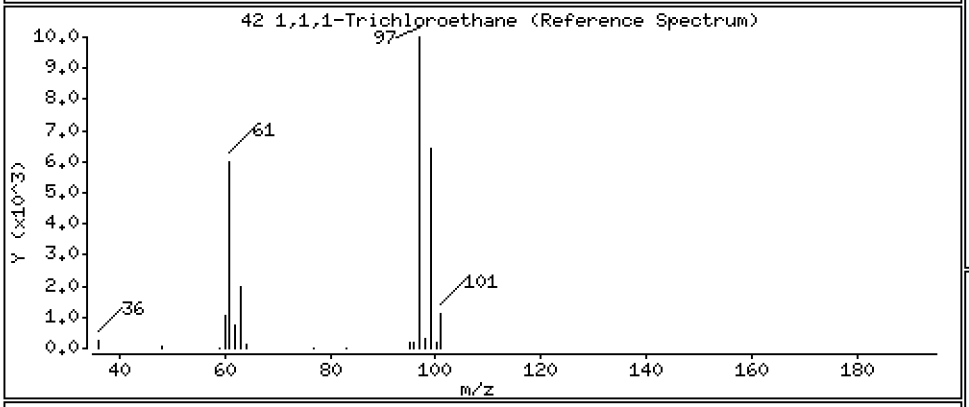
Purge Volume: 5.0 Operator: CJG

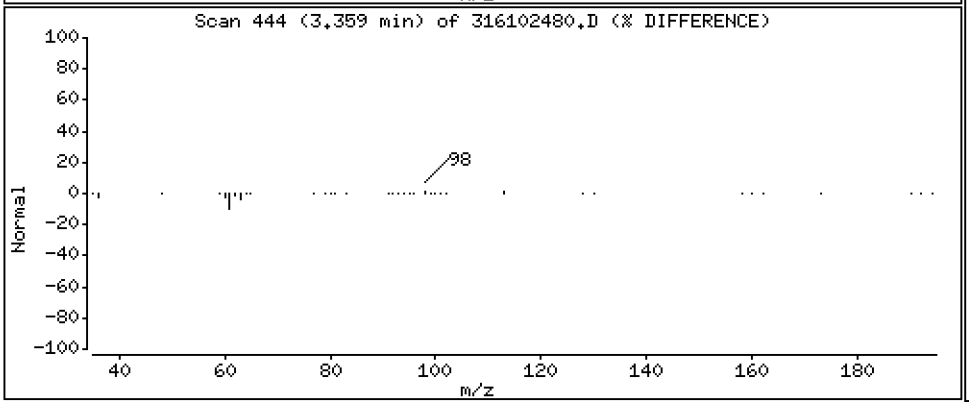
Column phase: DB-VRX Column diameter: 0.25

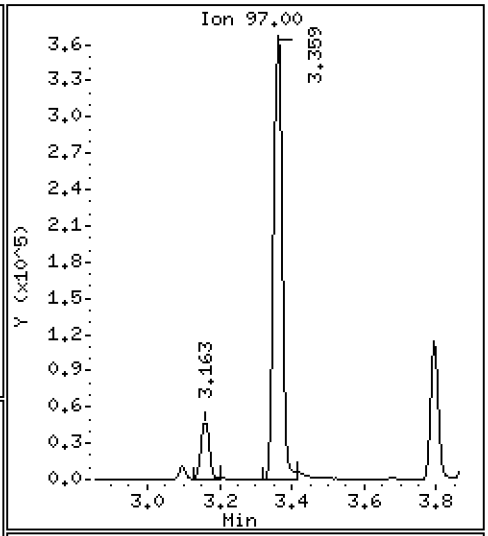
42 1,1,1-Trichloroethane Concentration: 47.3195 ug/L

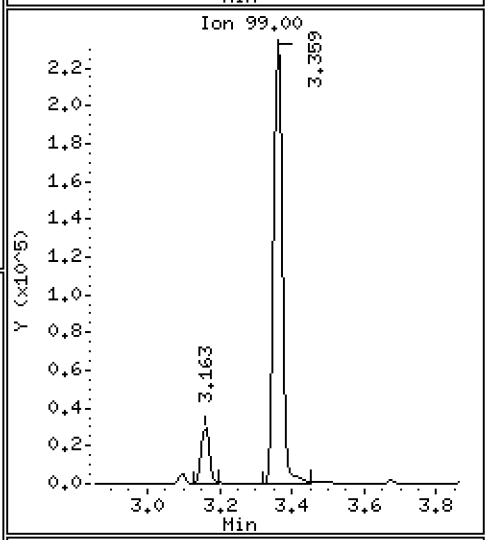


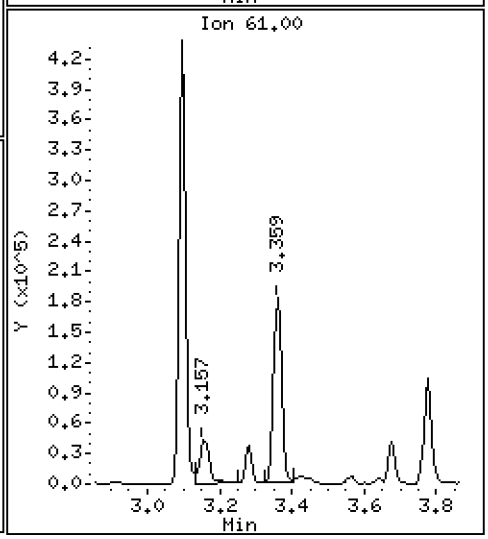












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 54

Date : 25-OCT-2016 09:17

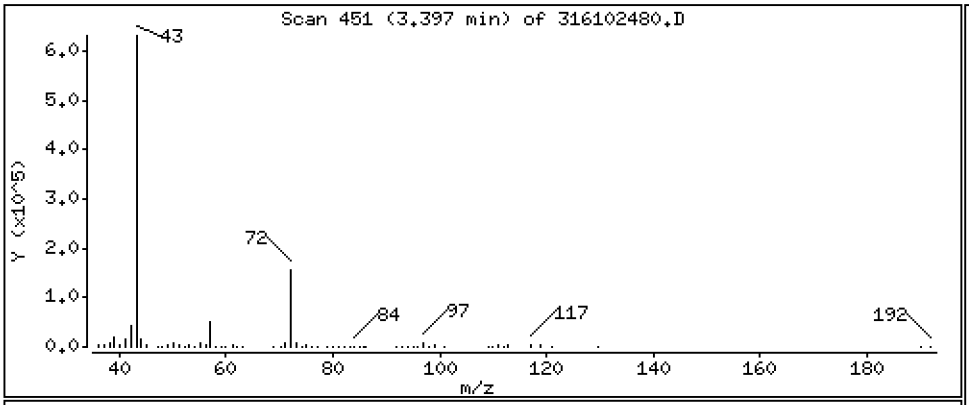
Client ID: Instrument: ms03.i

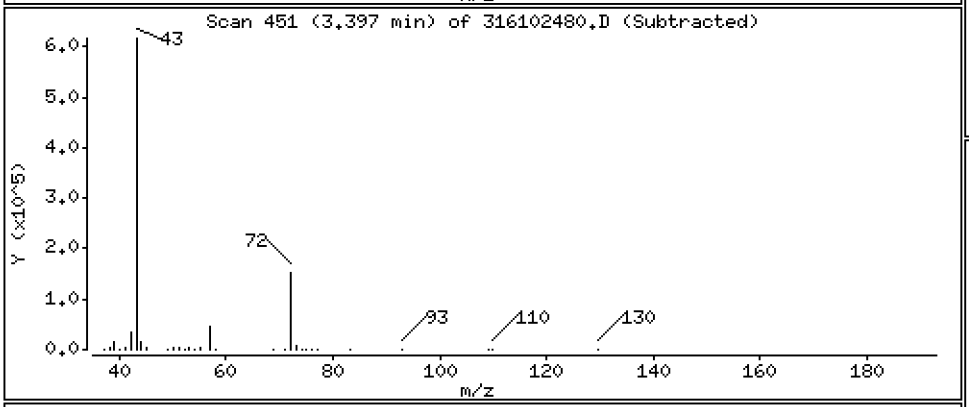
Sample Info: 1801;;1;2;4;;;

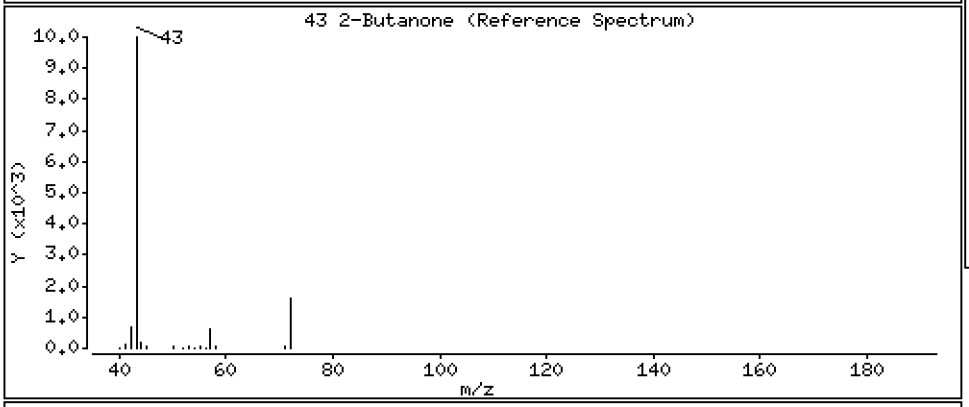
Purge Volume: 5.0 Operator: CJG

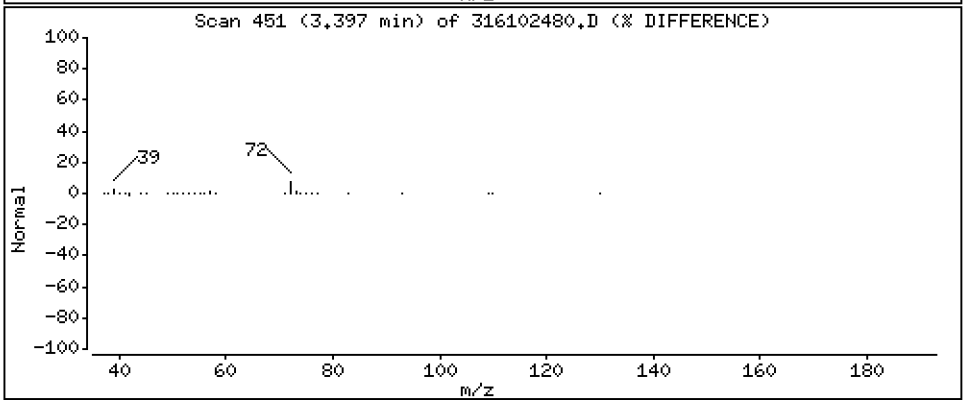
Column phase: DB-VRX Column diameter: 0.25

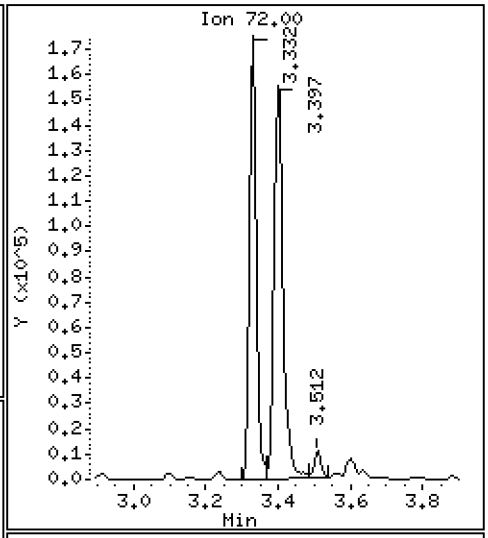
43 2-Butanone Concentration: 254.573 ug/L

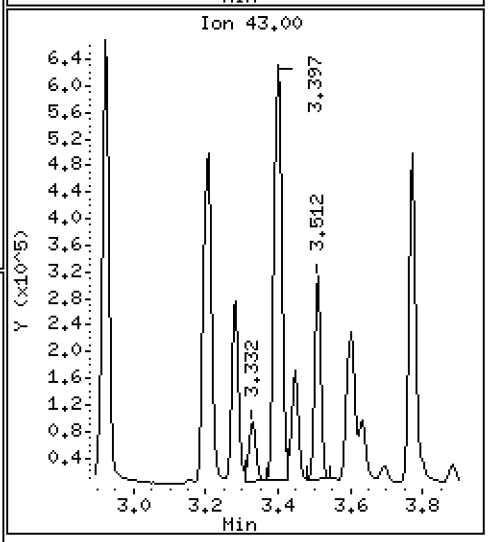












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 55

Date : 25-OCT-2016 09:17

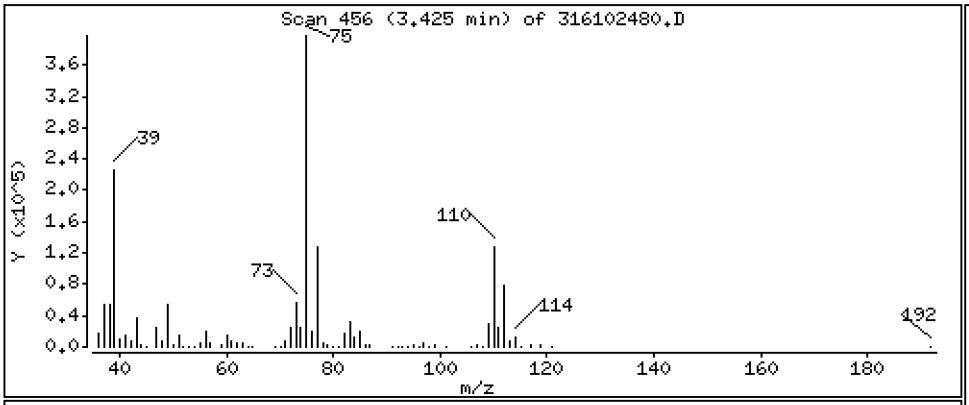
Client ID: Instrument: ms03.i

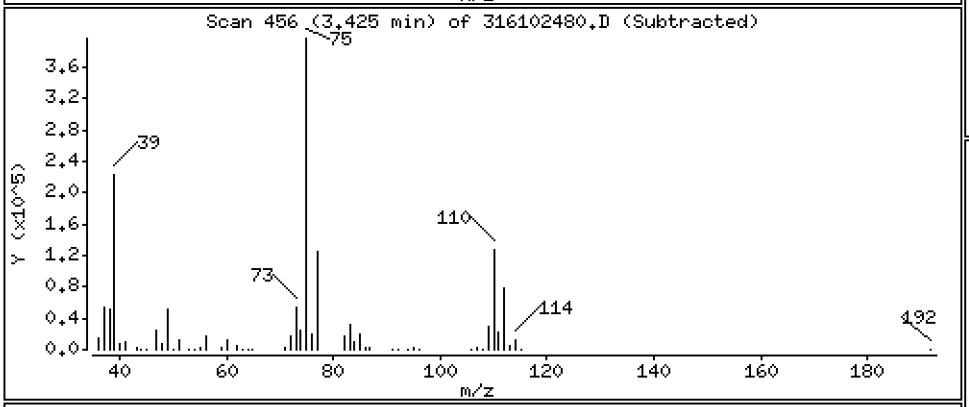
Sample Info: 1801;;1;2;4;;;

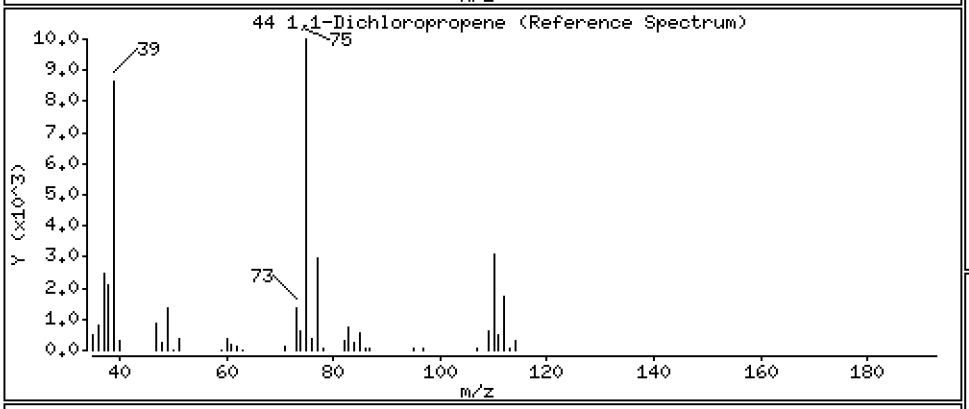
Purge Volume: 5.0 Operator: CJG

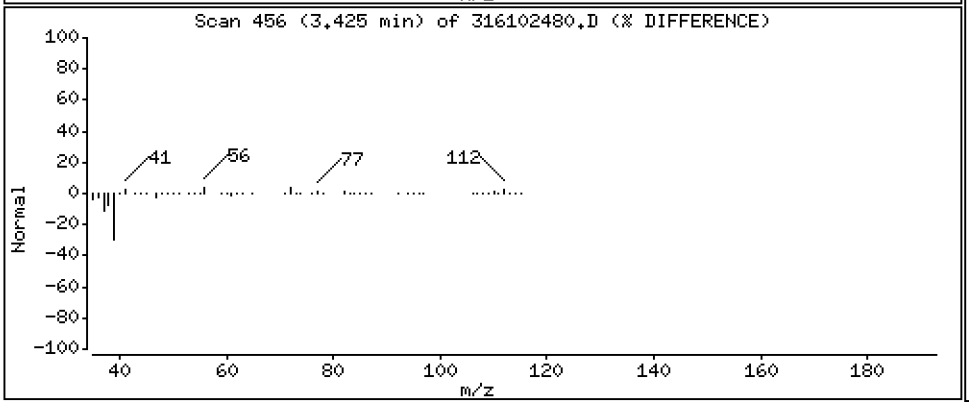
Column phase: DB-VRX Column diameter: 0.25

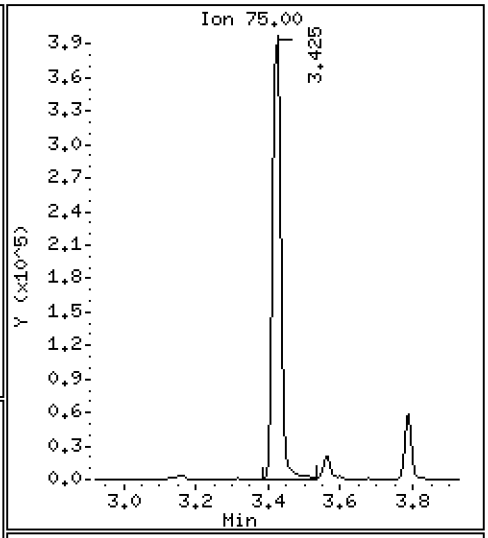
44 1,1-Dichloropropene Concentration: 46.0482 ug/L

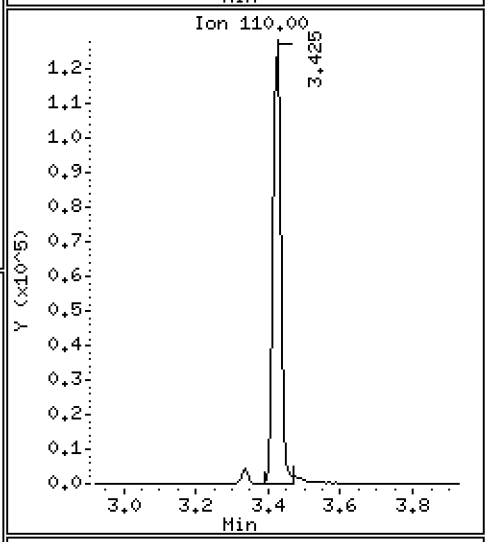


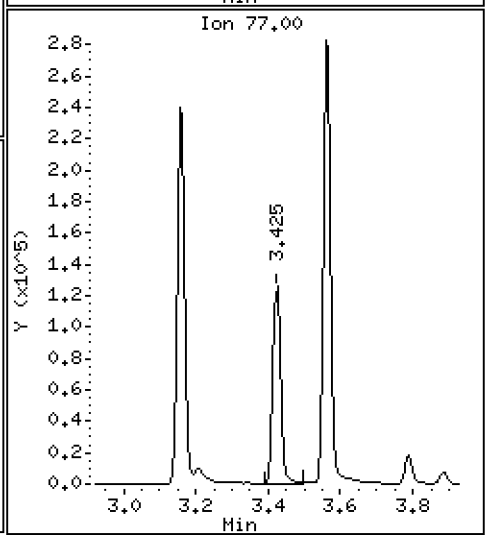












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 56

Date : 25-OCT-2016 09:17

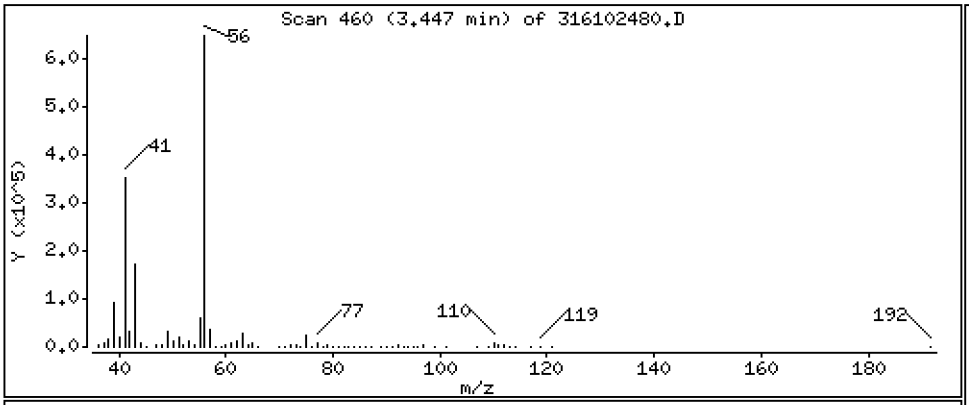
Client ID: Instrument: ms03.i

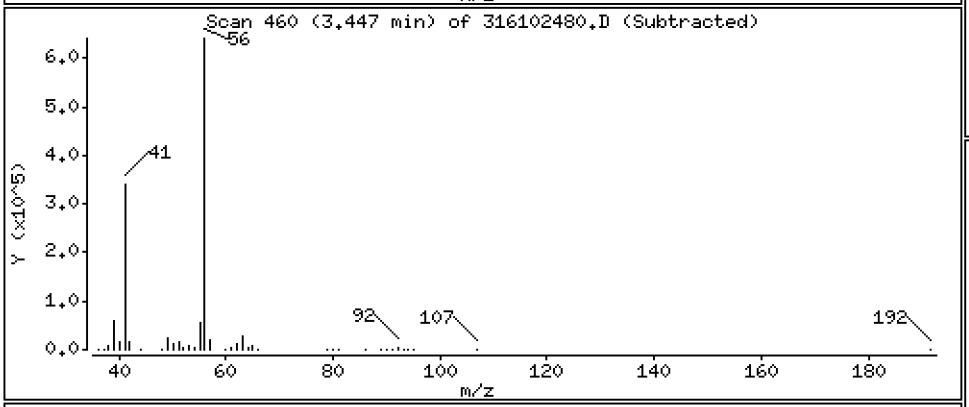
Sample Info: 1801;;1;2;4;;;

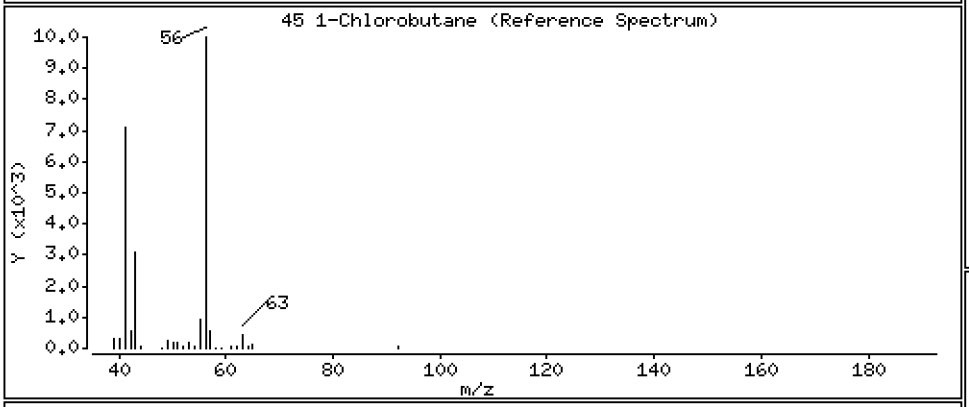
Purge Volume: 5.0 Operator: CJG

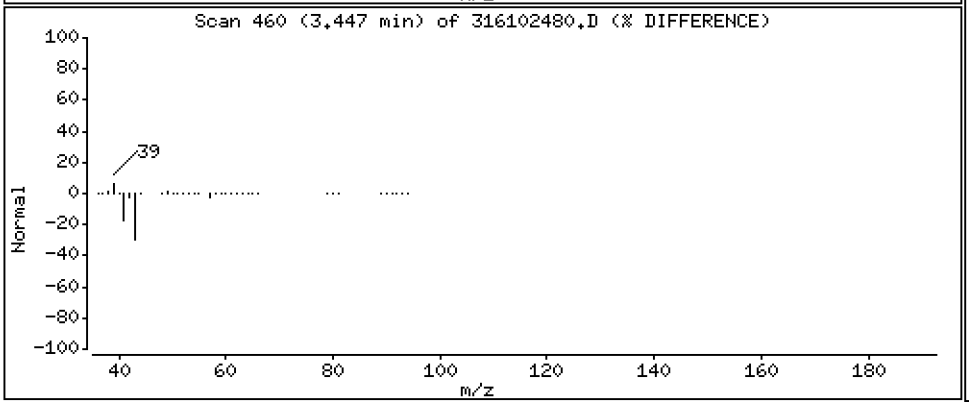
Column phase: DB-VRX Column diameter: 0.25

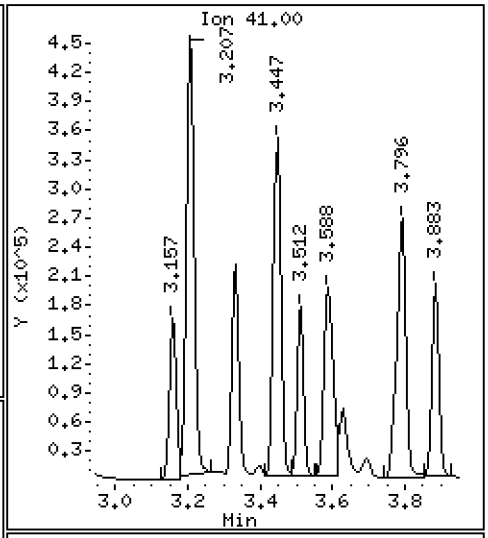
45 1-Chlorobutane Concentration: 51.3855 ug/L

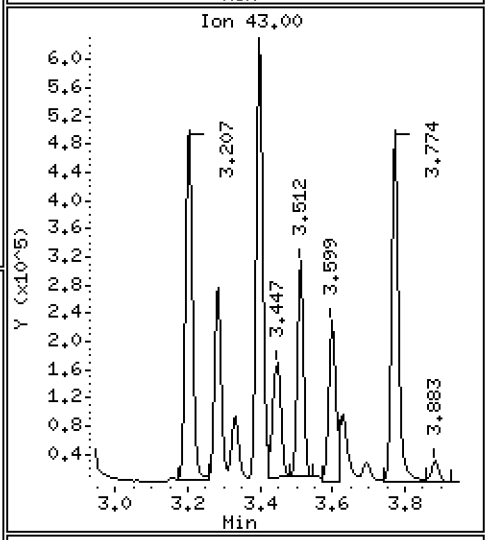


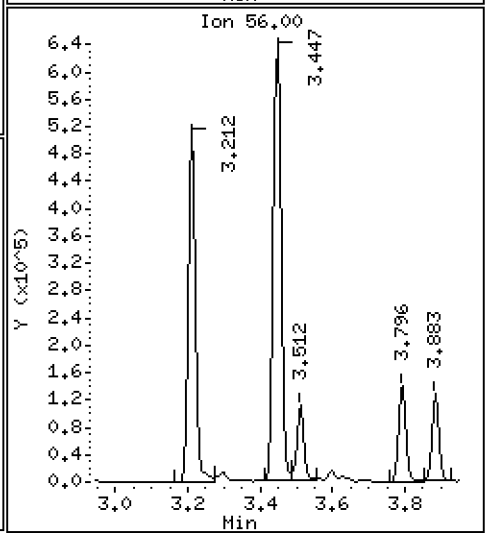












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 57

Date : 25-OCT-2016 09:17

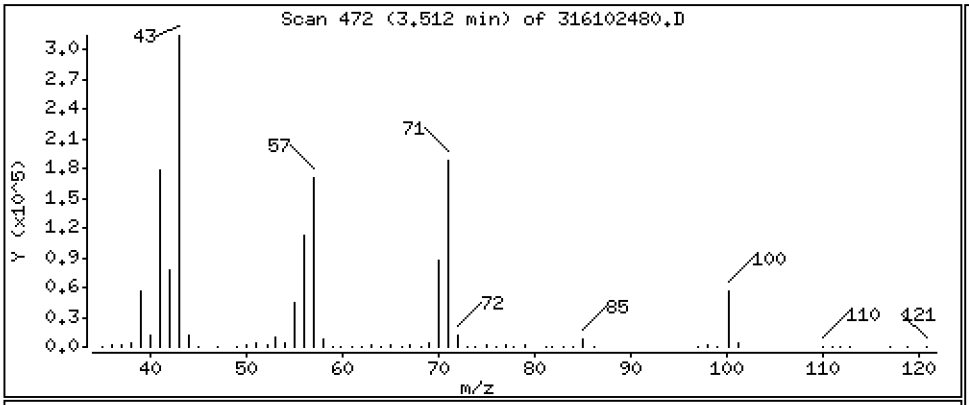
Client ID: Instrument: ms03.i

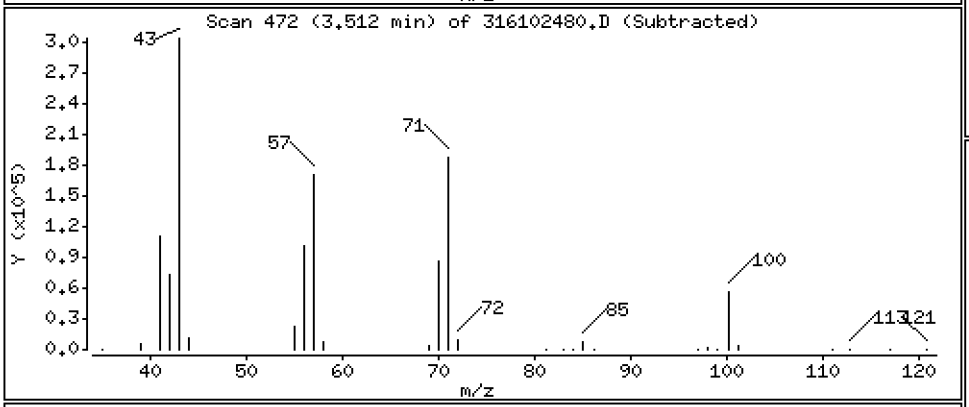
Sample Info: 1801;;1;2;4;;;

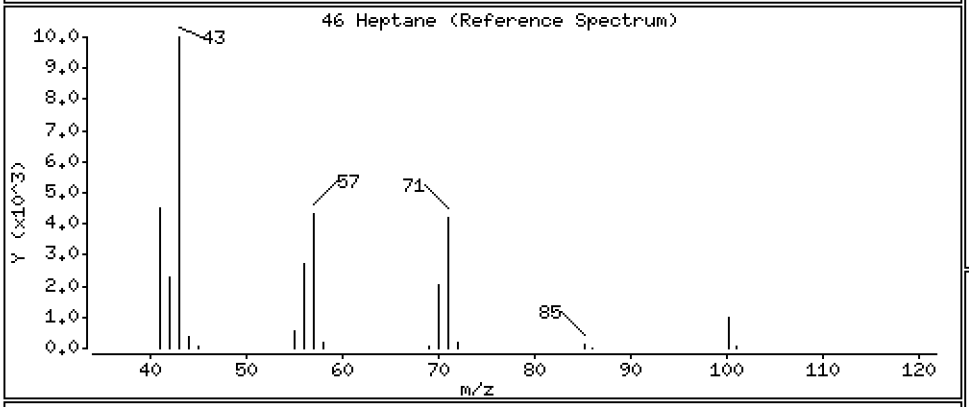
Purge Volume: 5.0 Operator: CJG

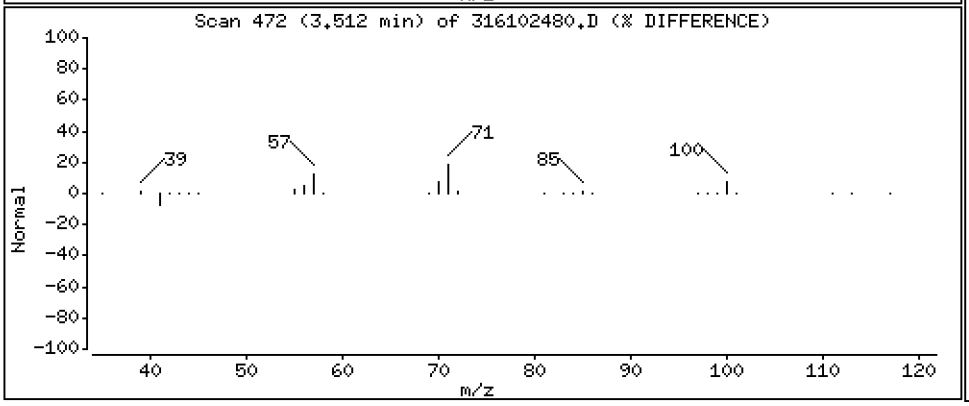
Column phase: DB-VRX Column diameter: 0.25

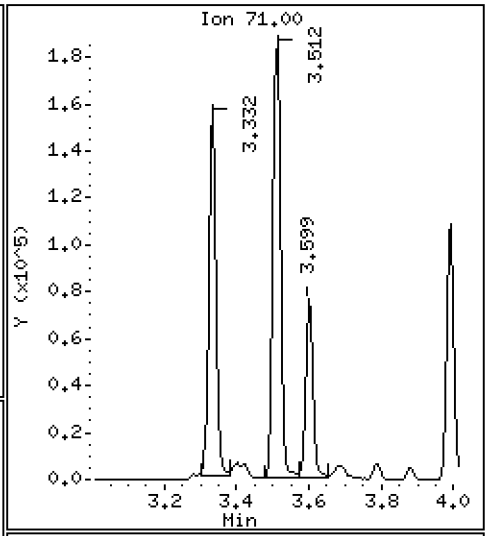
46 Heptane Concentration: 43.8094 ug/L

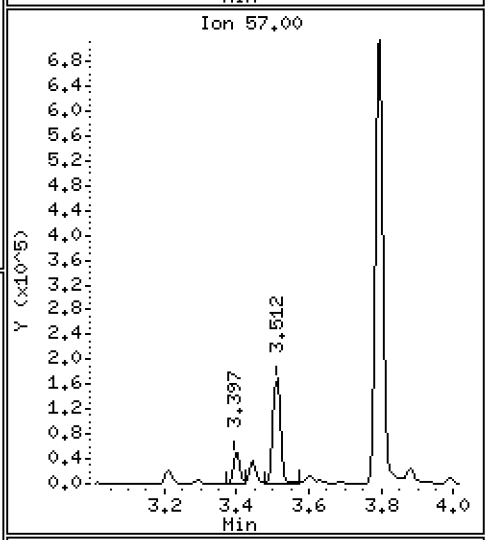


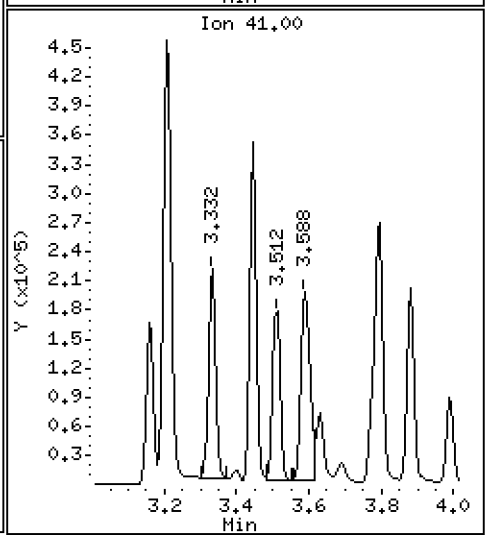












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 58

Date : 25-OCT-2016 09:17

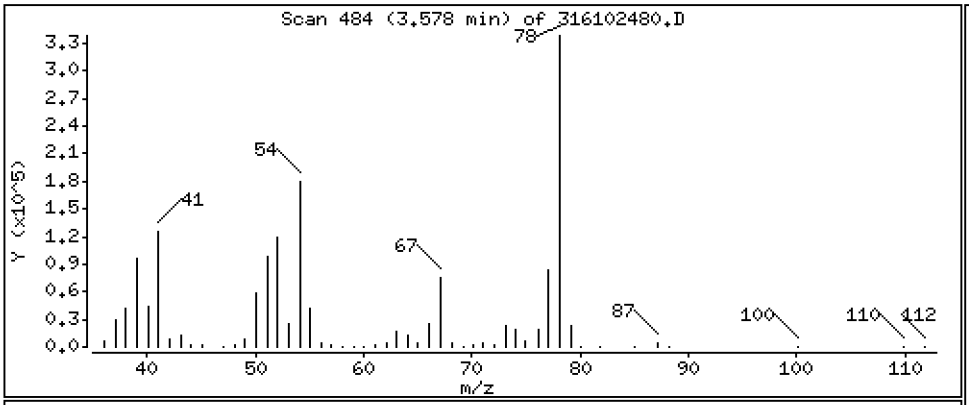
Client ID: Instrument: ms03.i

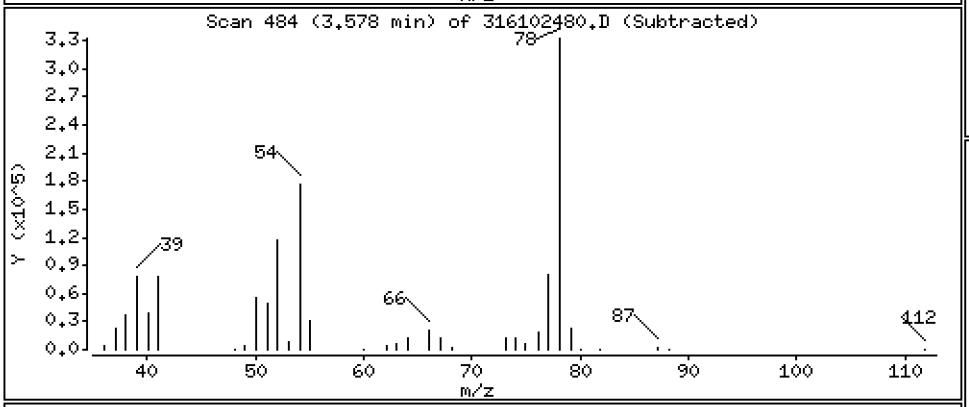
Sample Info: 1801;;1;2;4;;;

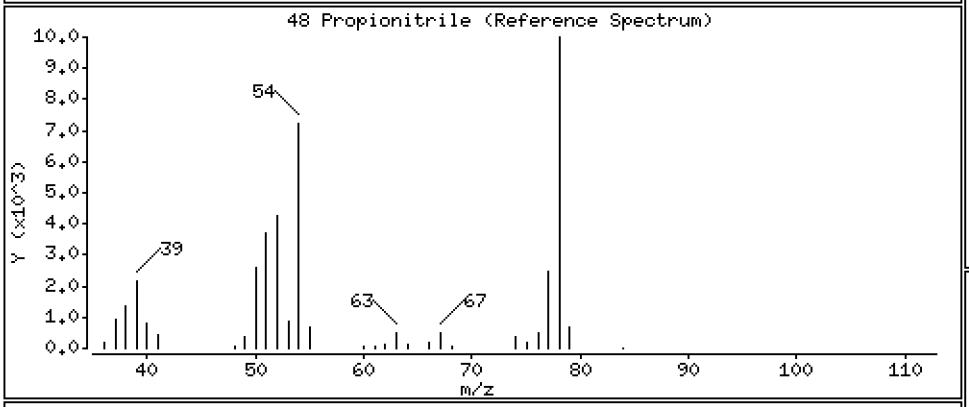
Purge Volume: 5.0 Operator: CJG

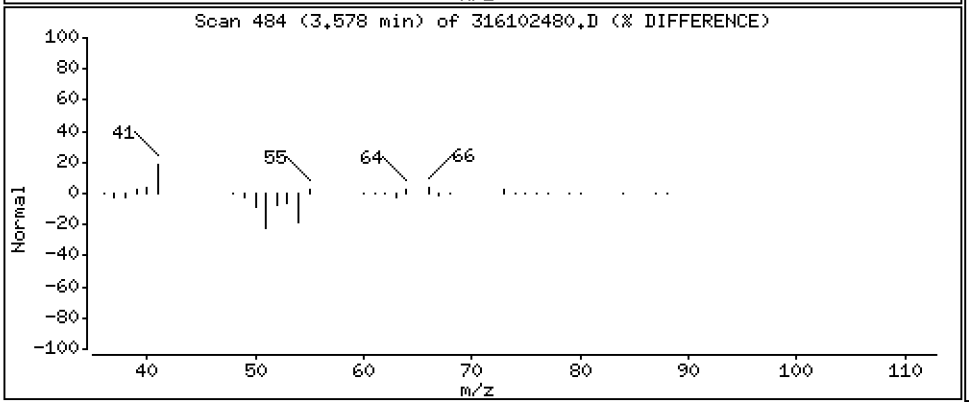
Column phase: DB-VRX Column diameter: 0.25

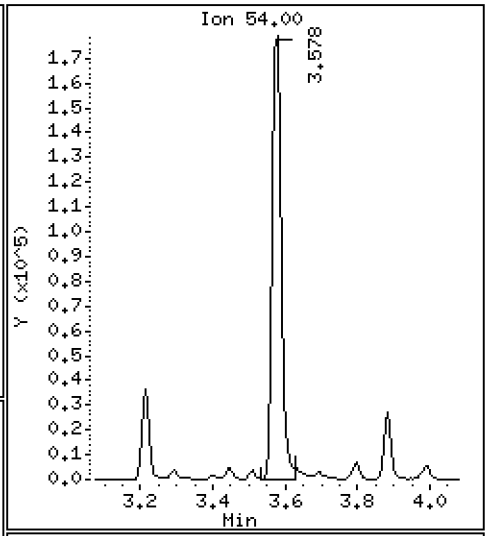
48 Propionitrile Concentration: 250.925 ug/L

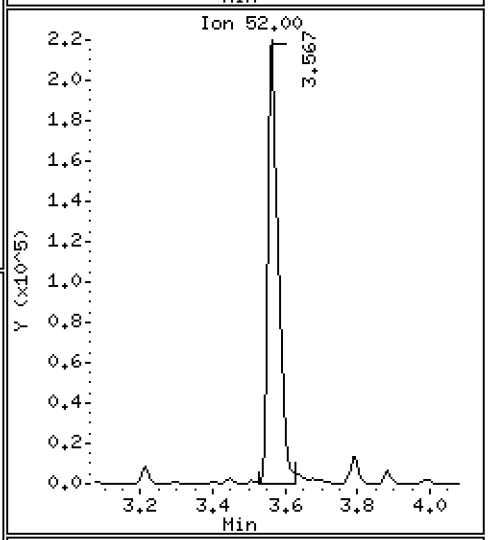


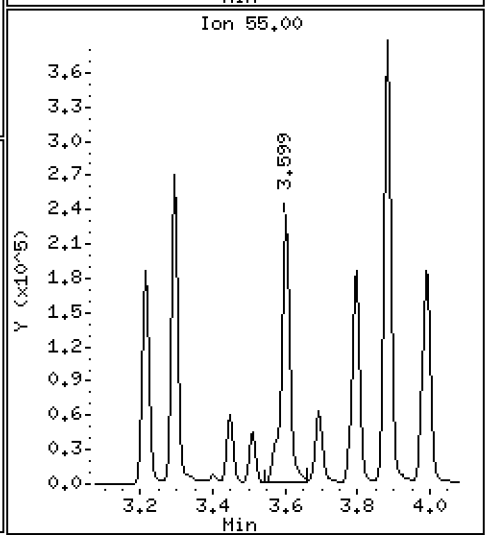












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 59

Date : 25-OCT-2016 09:17

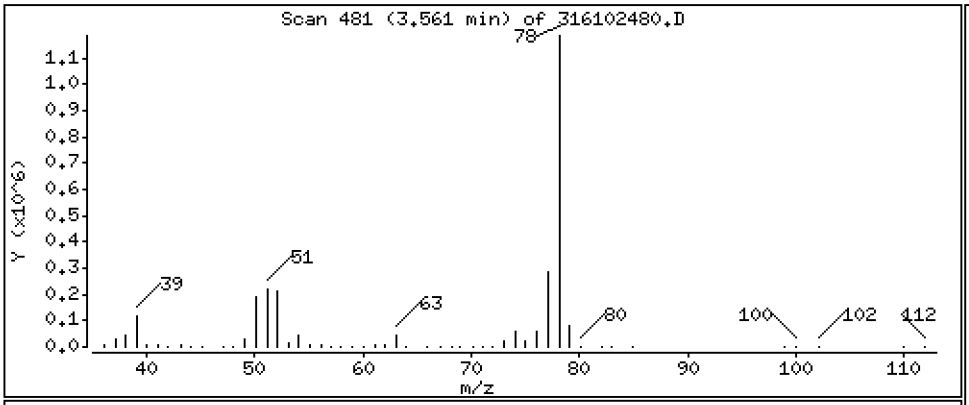
Client ID: Instrument: ms03.i

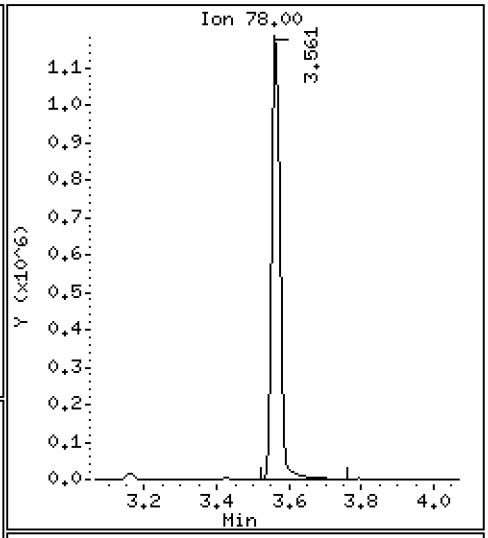
Sample Info: 1801;;1;2;4;;;

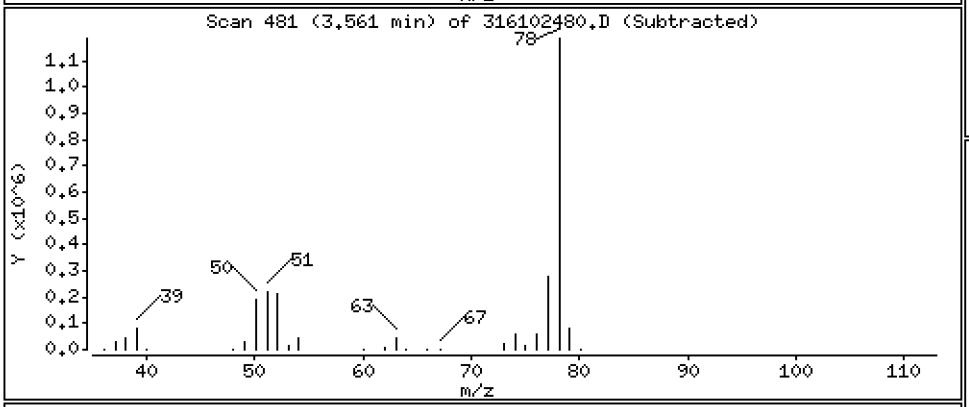
Purge Volume: 5.0 Operator: CJG

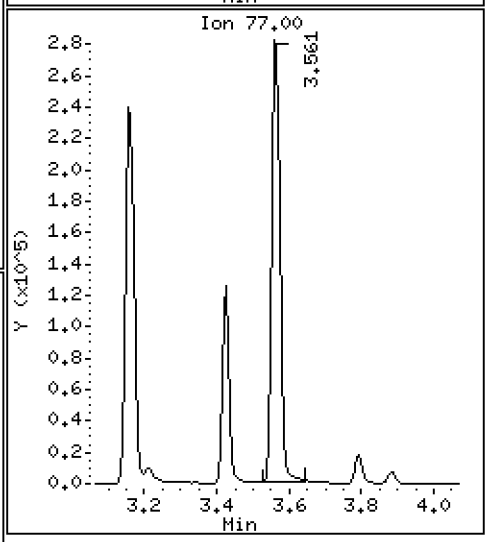
Column phase: DB-VRX Column diameter: 0.25

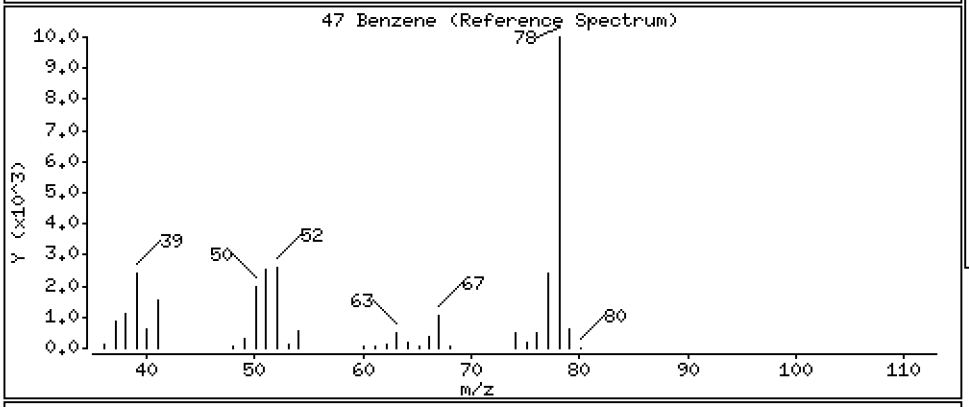
47 Benzene Concentration: 45.9812 ug/L

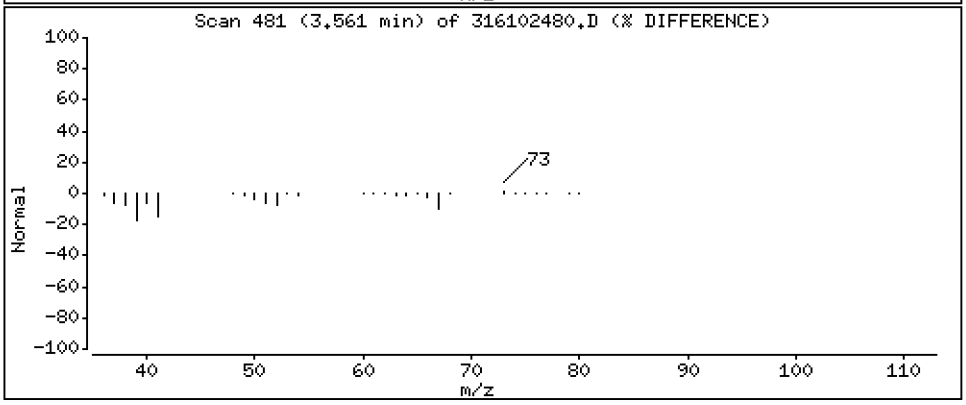












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 60

Date : 25-OCT-2016 09:17

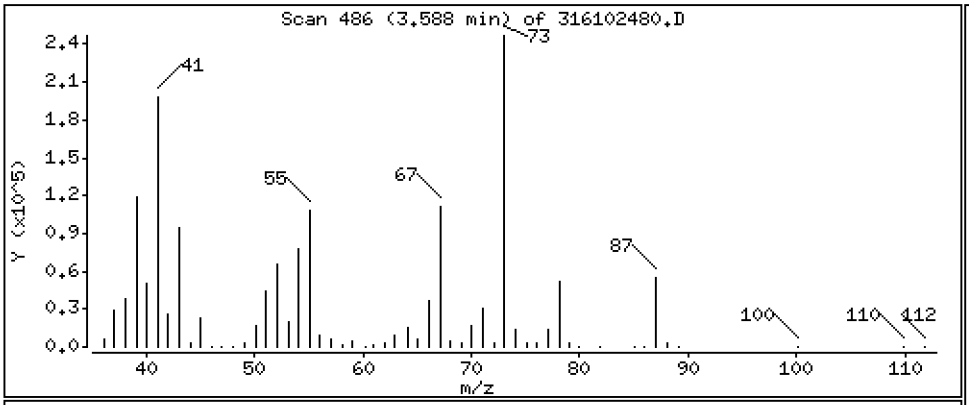
Client ID: Instrument: ms03.i

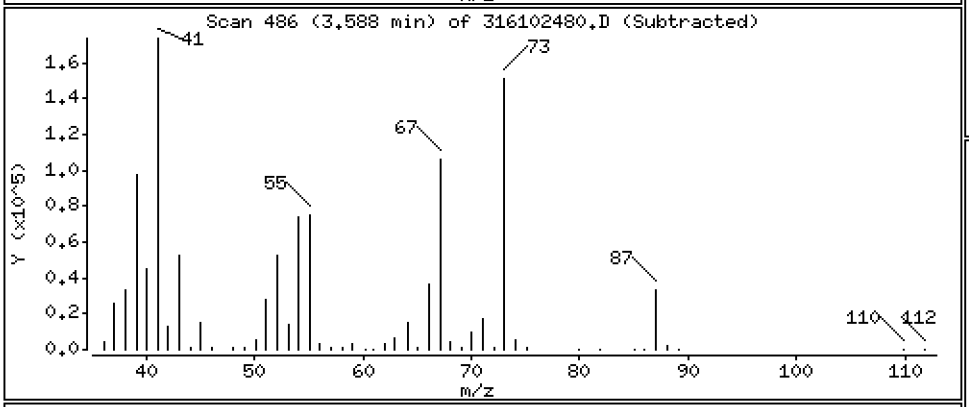
Sample Info: 1801;;1;2;4;;;

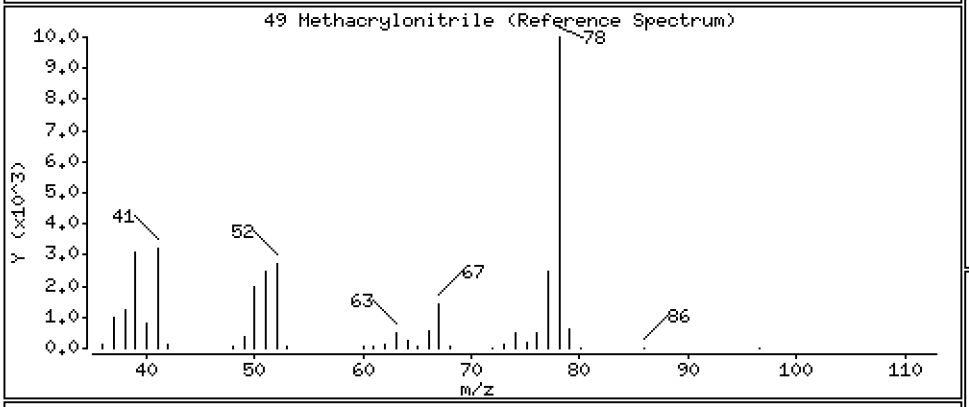
Purge Volume: 5.0 Operator: CJG

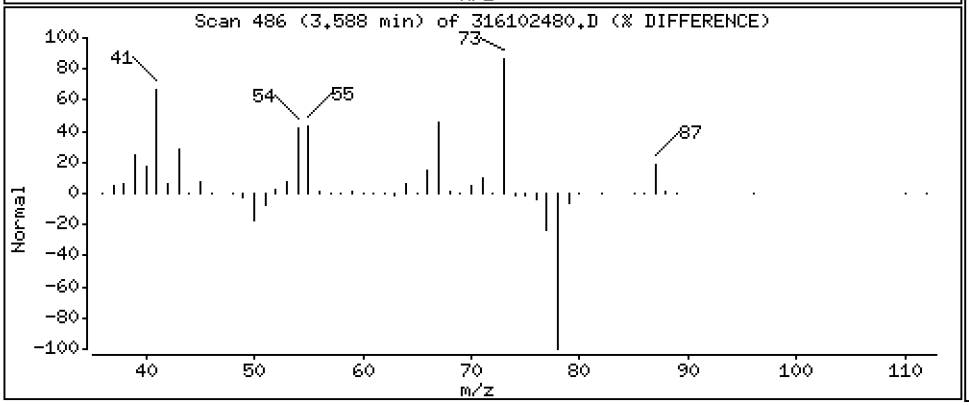
Column phase: DB-VRX Column diameter: 0.25

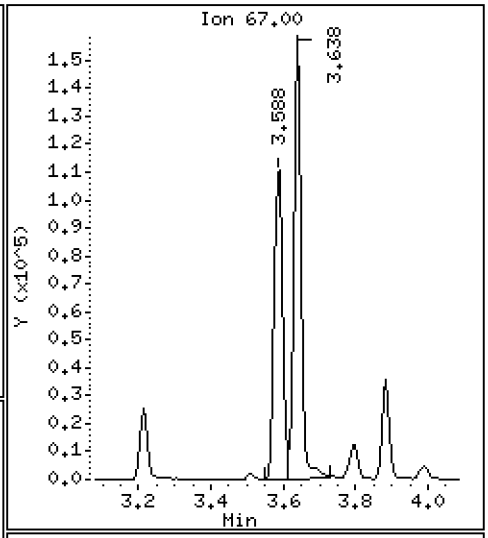
49 Methacrylonitrile Concentration: 47.9500 ug/L

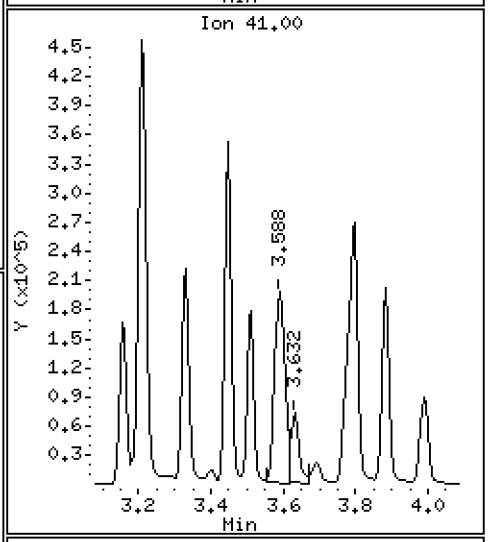


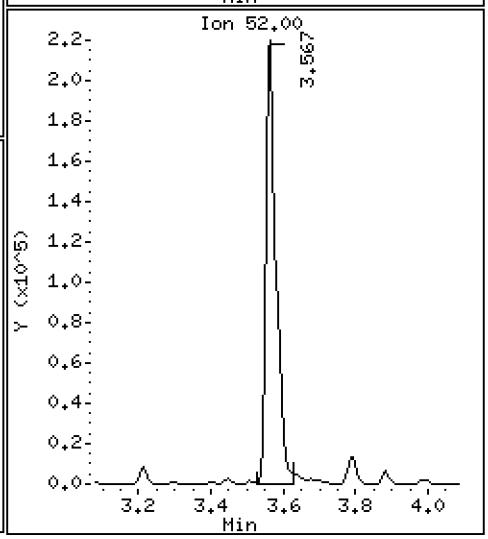












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 61

Date : 25-OCT-2016 09:17

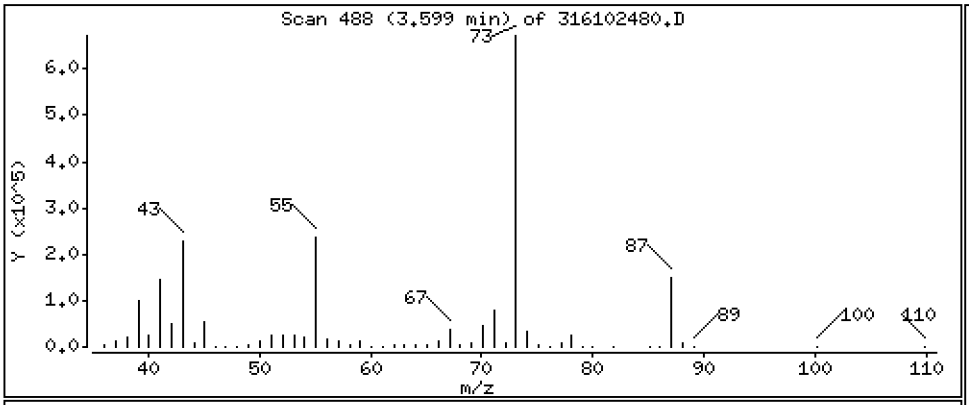
Client ID: Instrument: ms03.i

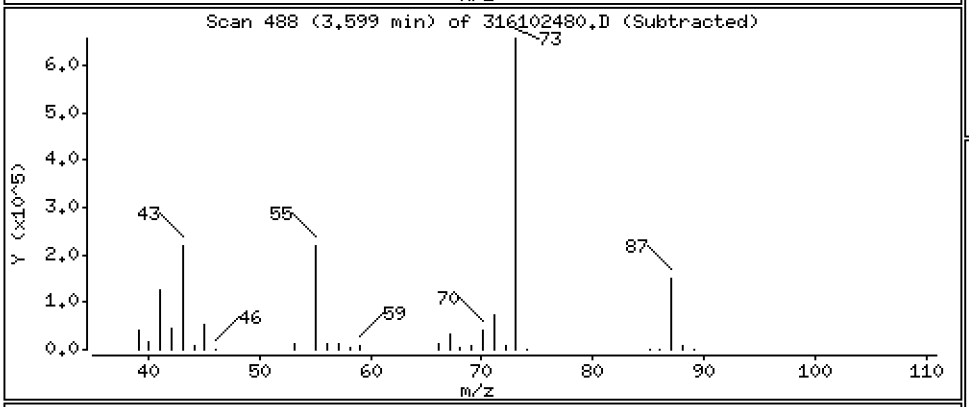
Sample Info: 1801;;1;2;4;;;

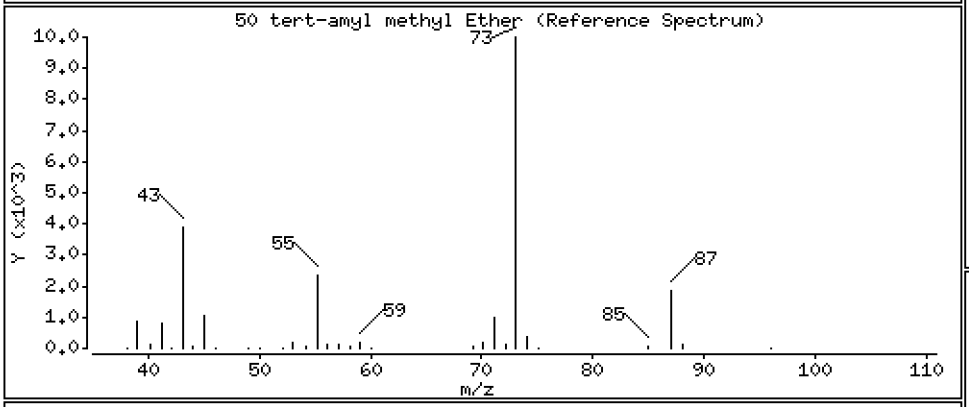
Purge Volume: 5.0 Operator: CJG

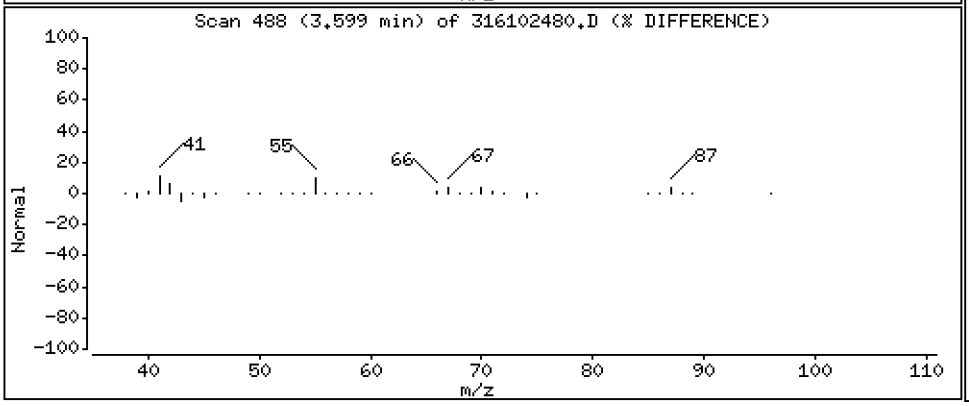
Column phase: DB-VRX Column diameter: 0.25

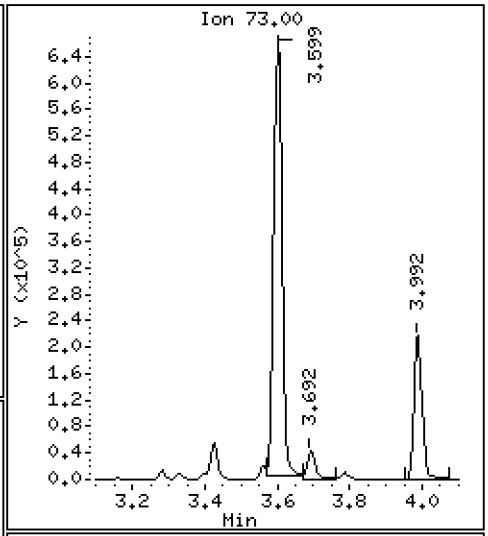
50 tert-amyl methyl Ether Concentration: 48.6770 ug/L

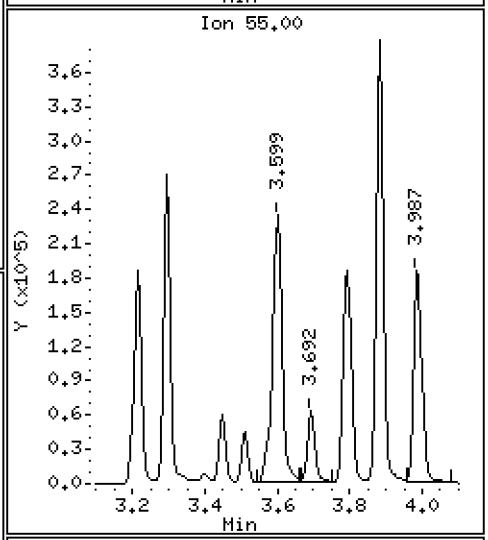


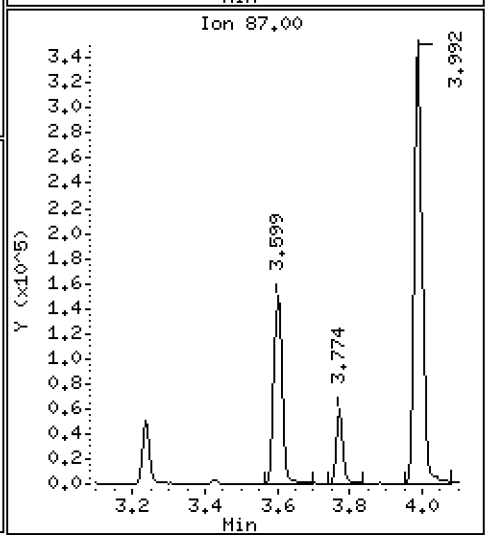












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 62

Date : 25-OCT-2016 09:17

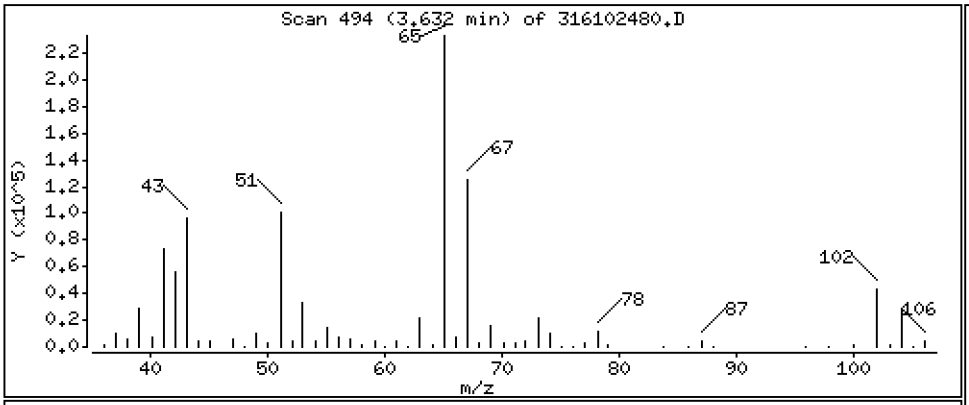
Client ID: Instrument: ms03.i

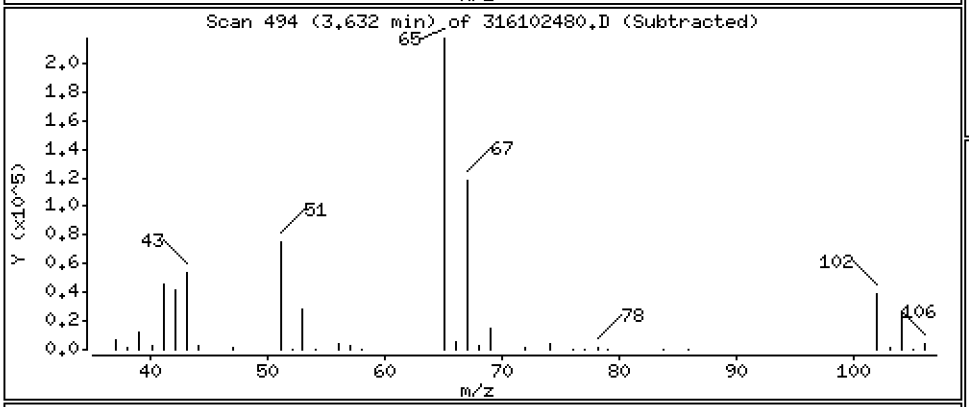
Sample Info: 1801;;1;2;4;;;

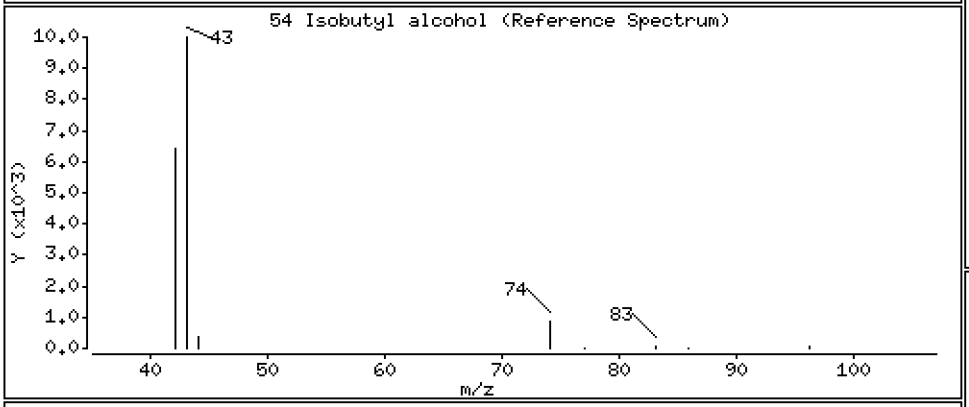
Purge Volume: 5.0 Operator: CJG

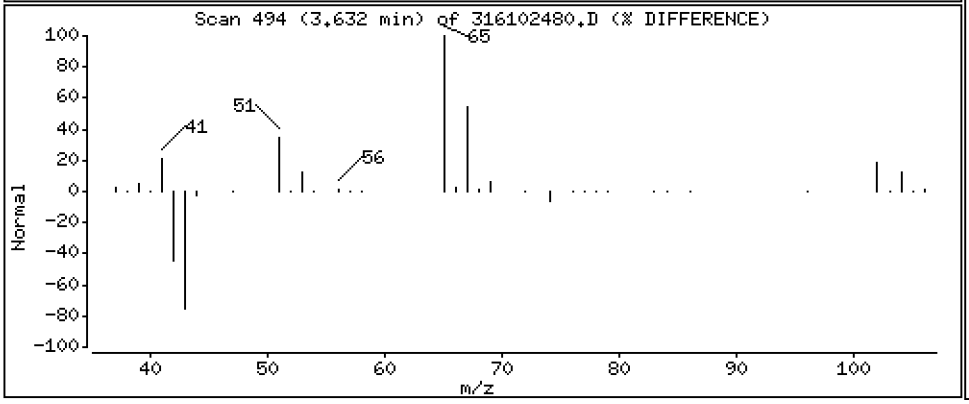
Column phase: DB-VRX Column diameter: 0.25

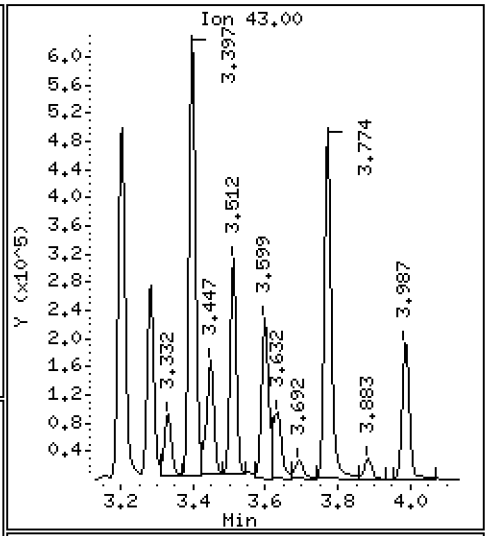
54 Isobutyl alcohol Concentration: 726.494 ug/L

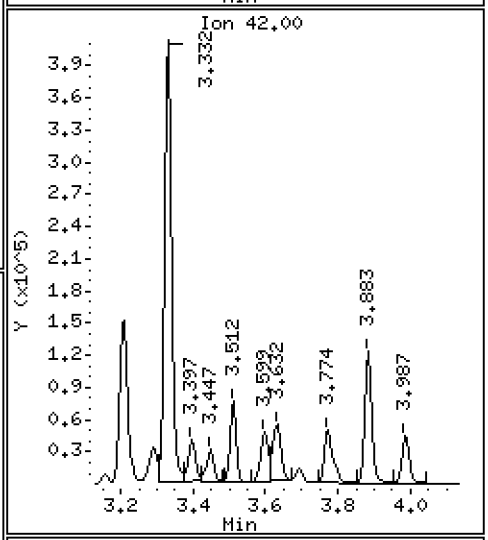


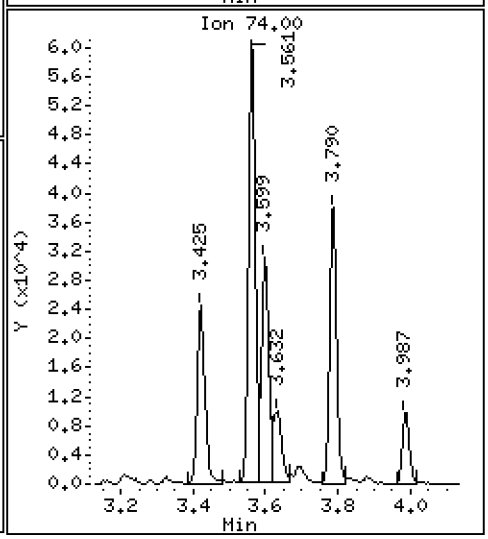












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 63

Date : 25-OCT-2016 09:17

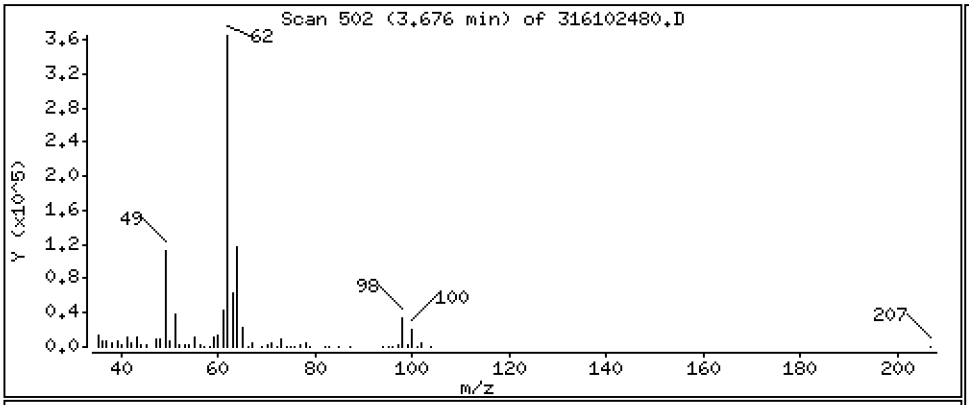
Client ID: Instrument: ms03.i

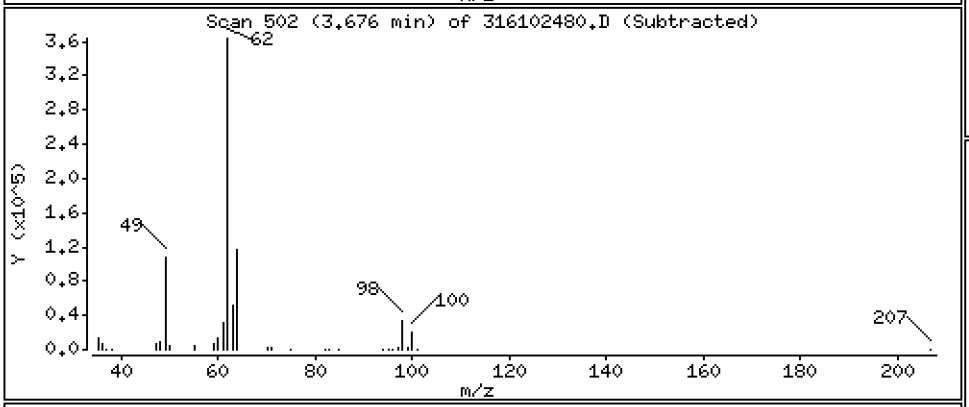
Sample Info: 1801;;1;2;4;;;

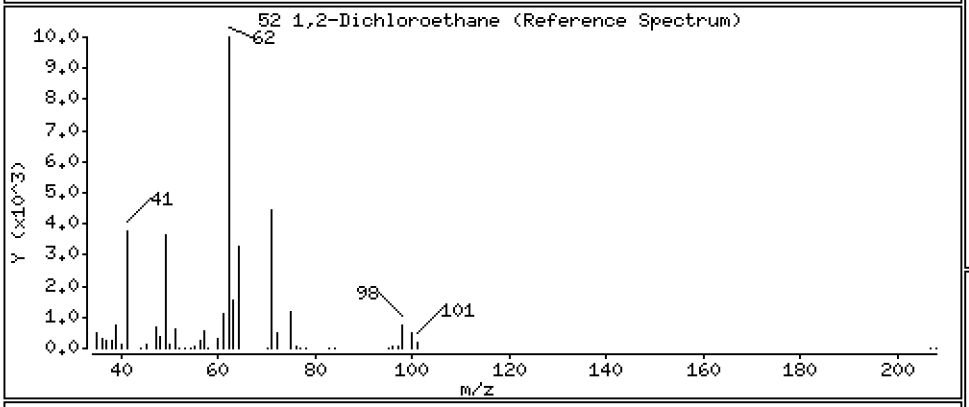
Purge Volume: 5.0 Operator: CJG

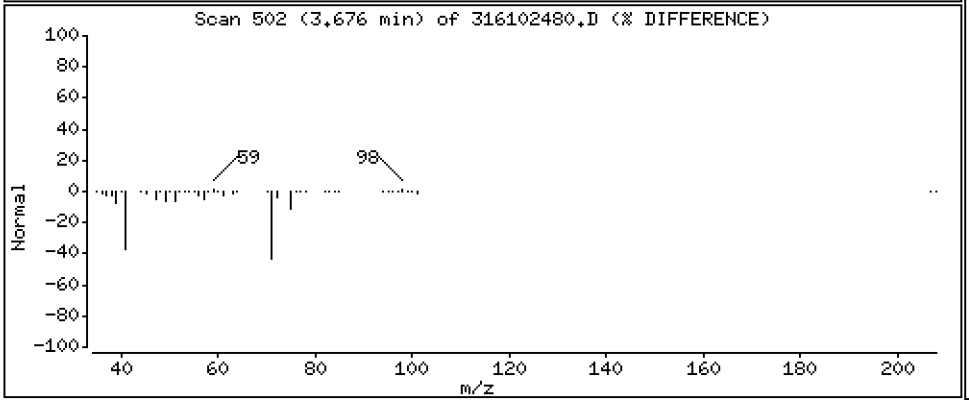
Column phase: DB-VRX Column diameter: 0.25

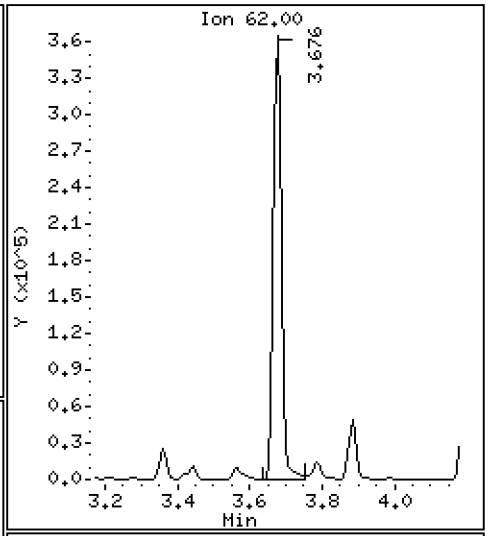
52 1,2-Dichloroethane Concentration: 45.9320 ug/L

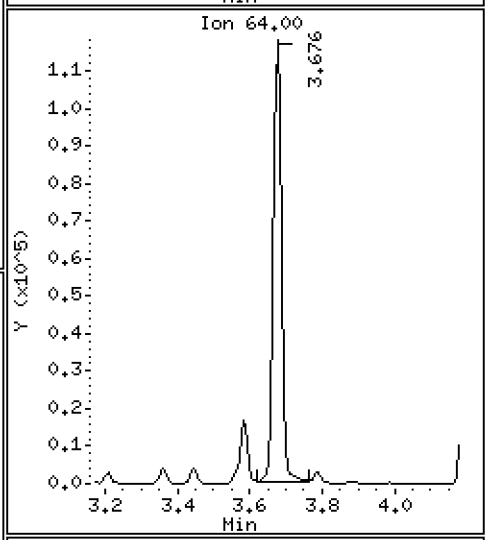


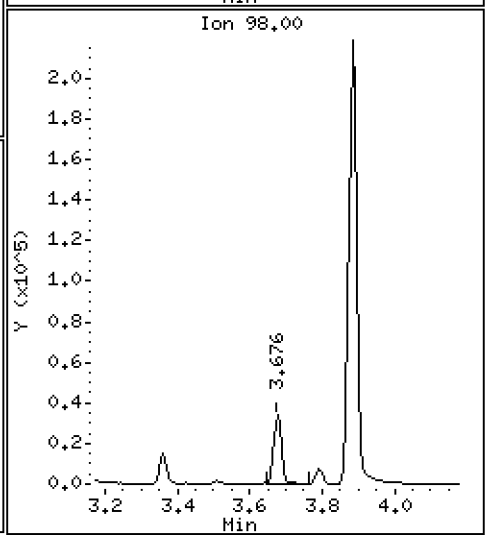












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 64

Date : 25-OCT-2016 09:17

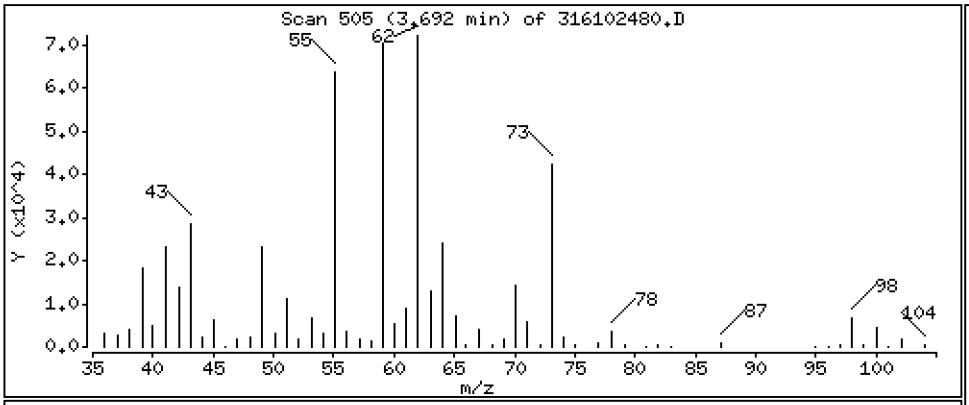
Client ID: Instrument: ms03.i

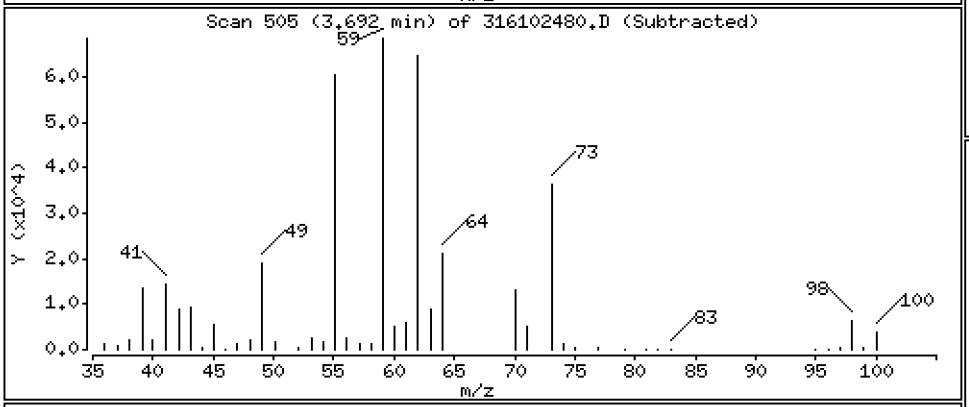
Sample Info: 1801;;1;2;4;;;

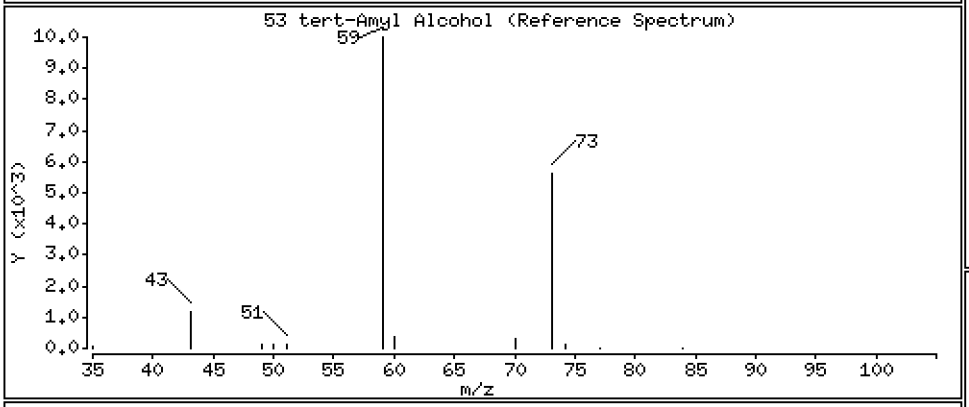
Purge Volume: 5.0 Operator: CJG

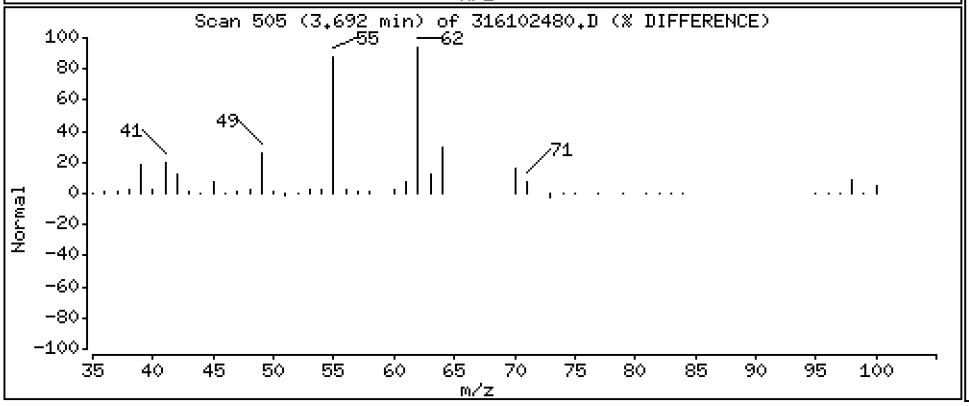
Column phase: DB-VRX Column diameter: 0.25

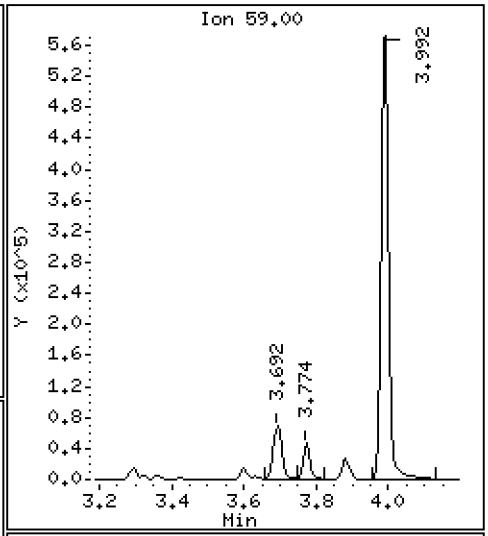
53 tert-Amyl Alcohol Concentration: 268.591 ug/L

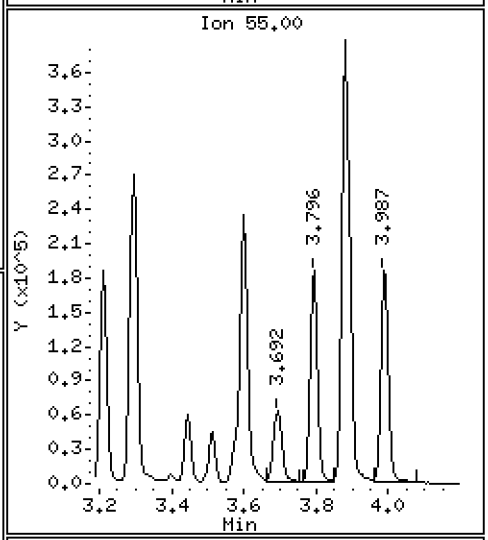


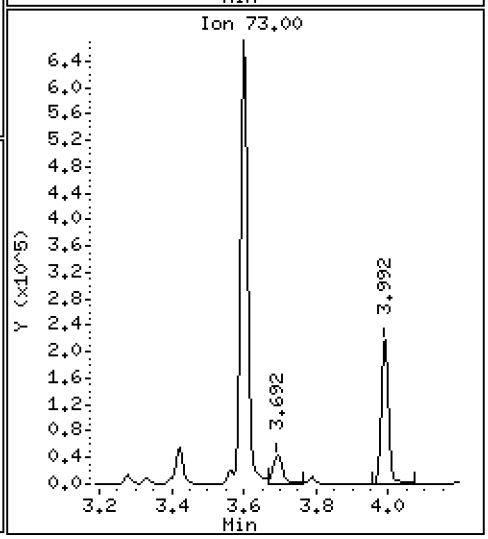












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 65

Date : 25-OCT-2016 09:17

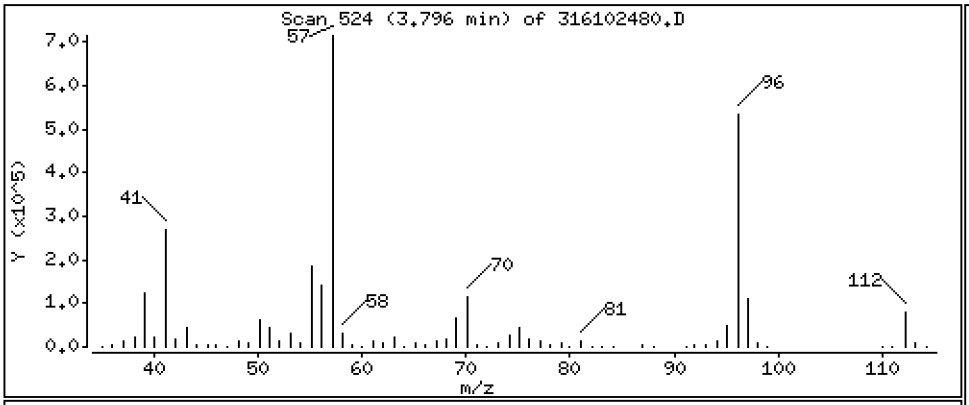
Client ID: Instrument: ms03.i

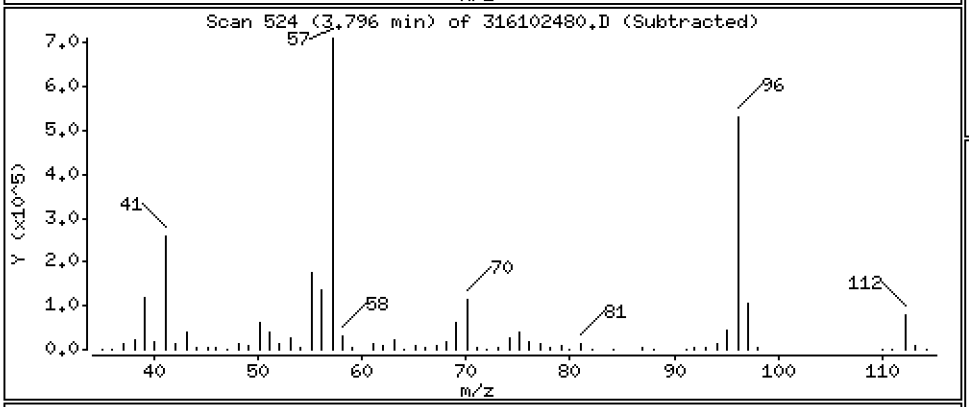
Sample Info: 1801;;1;2;4;;;

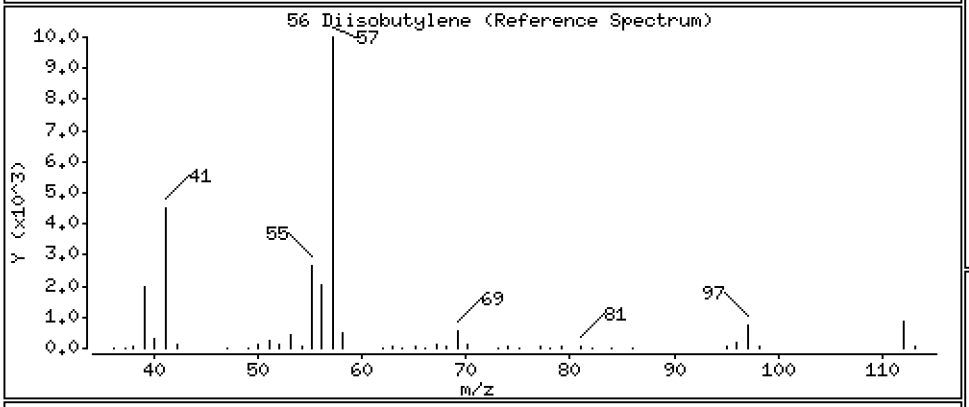
Purge Volume: 5.0 Operator: CJG

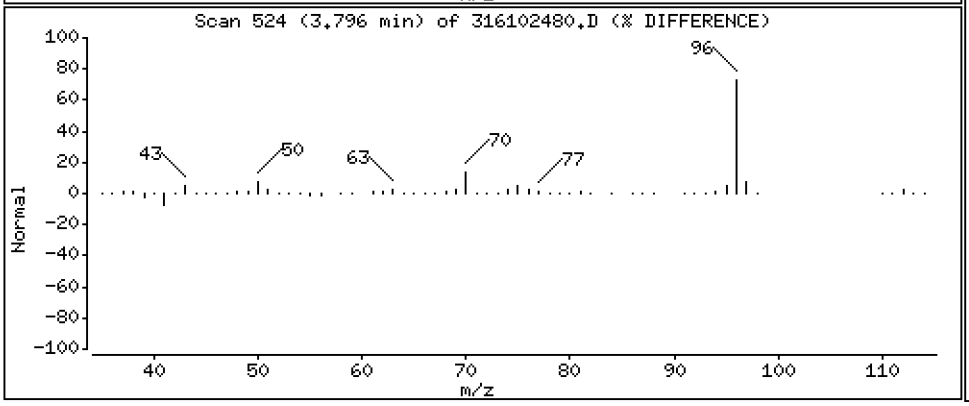
Column phase: DB-VRX Column diameter: 0.25

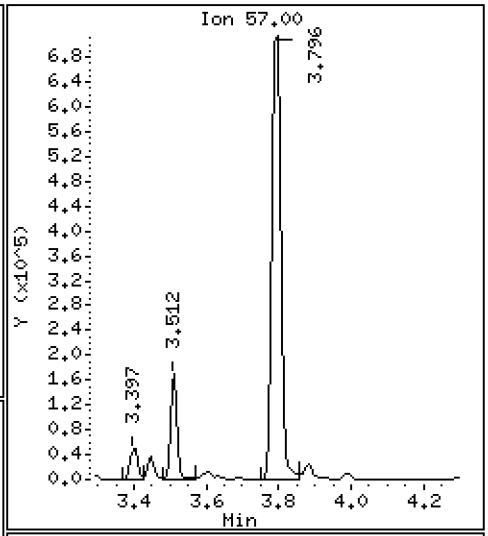
56 Diisobutylene Concentration: 52.4587 ug/L

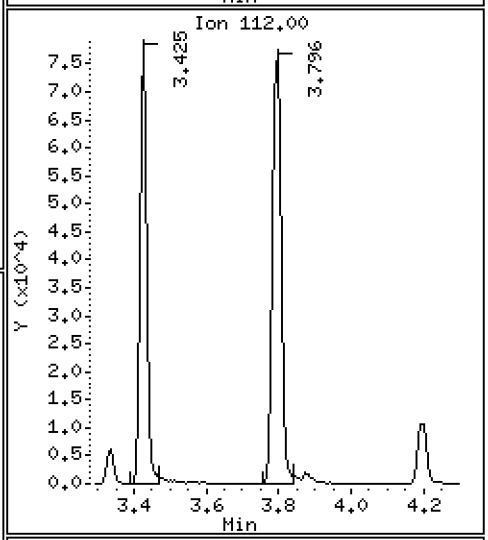


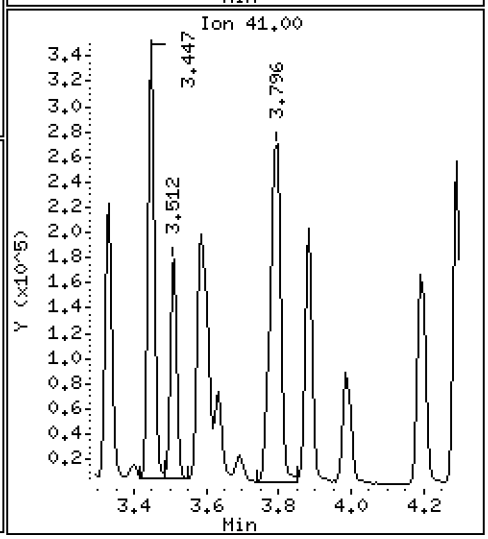












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 66

Date : 25-OCT-2016 09:17

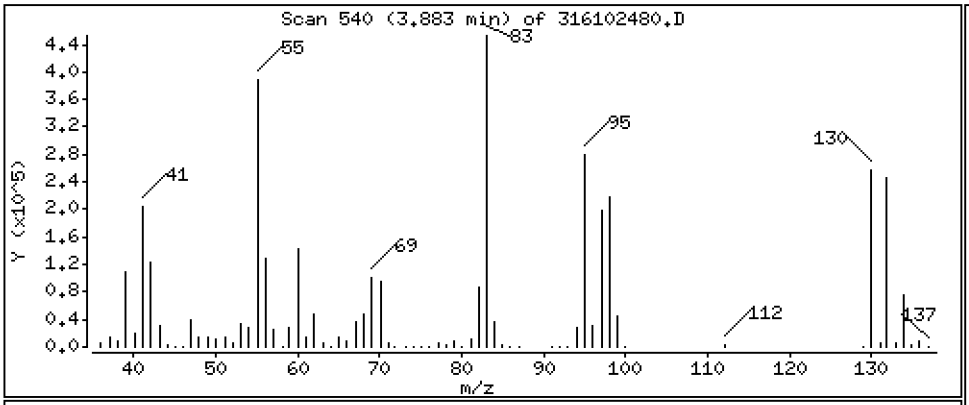
Client ID: Instrument: ms03.i

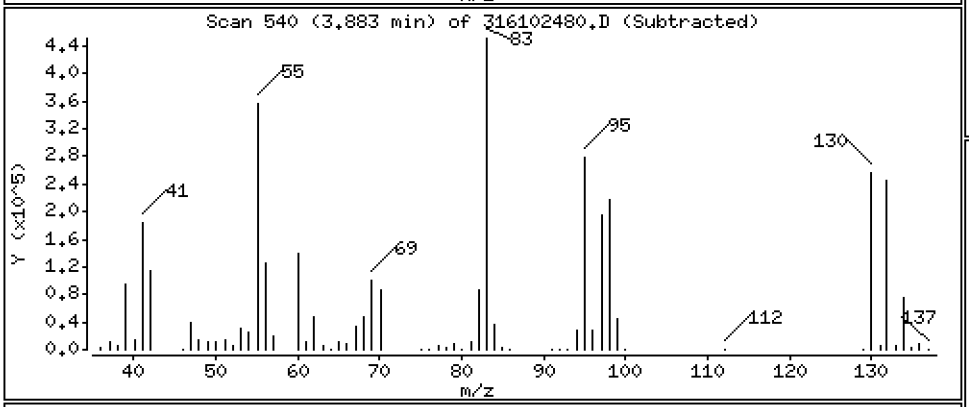
Sample Info: 1801;;1;2;4;;;

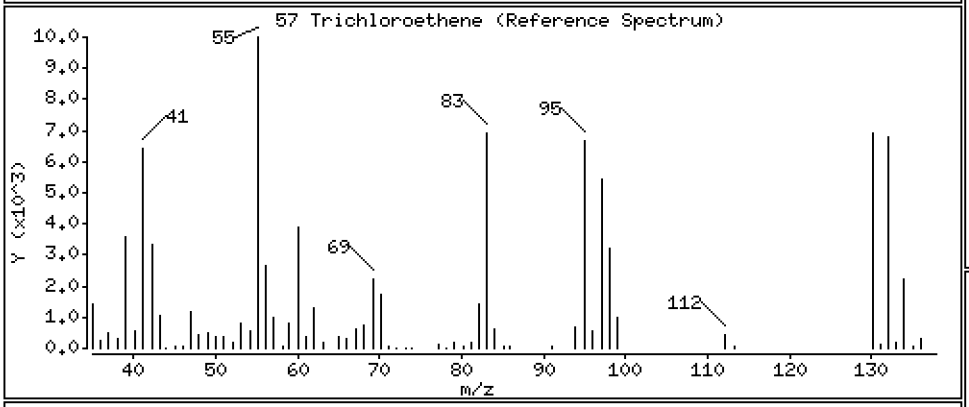
Purge Volume: 5.0 Operator: CJG

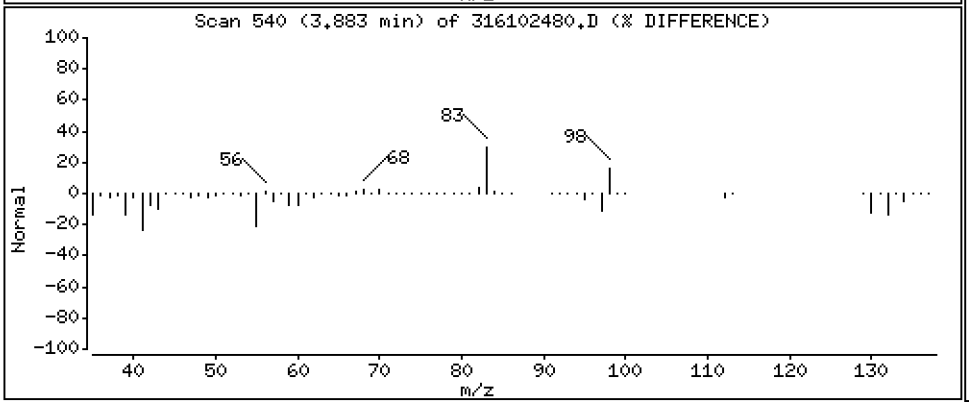
Column phase: DB-VRX Column diameter: 0.25

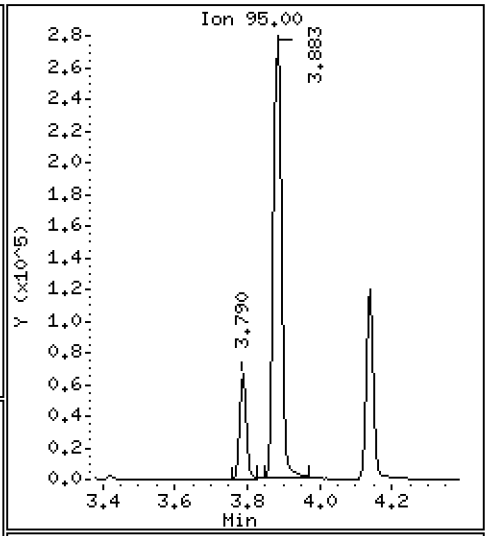
57 Trichloroethene Concentration: 43.8083 ug/L

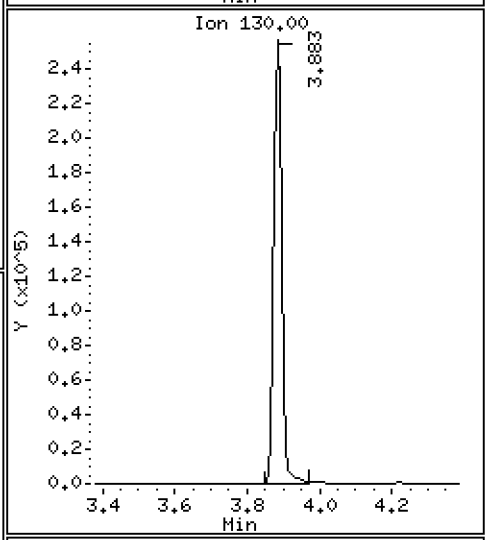


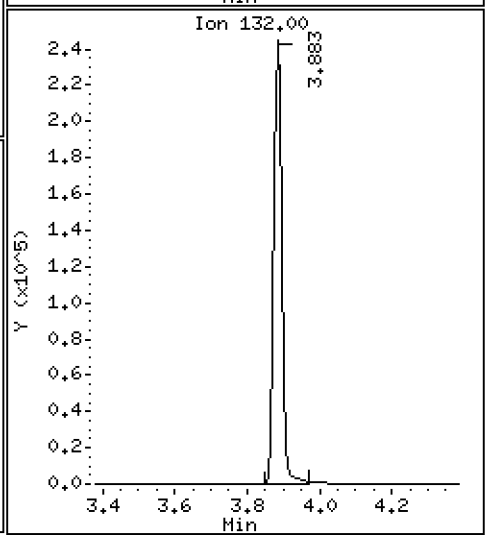












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 67

Date : 25-OCT-2016 09:17

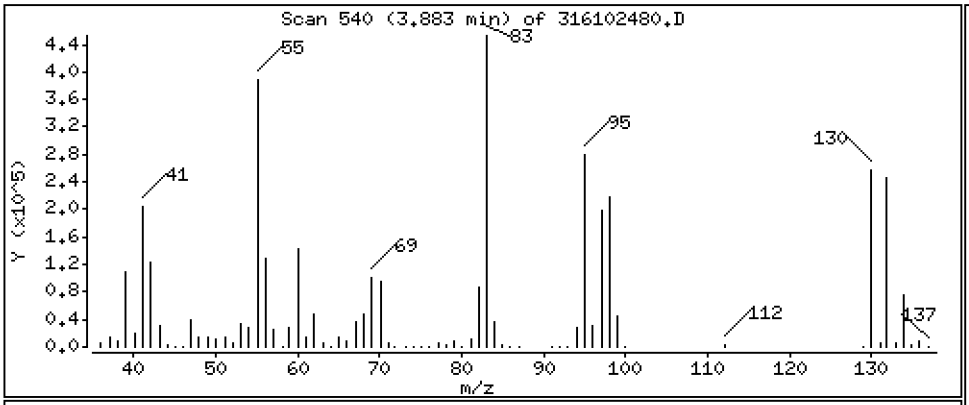
Client ID: Instrument: ms03.i

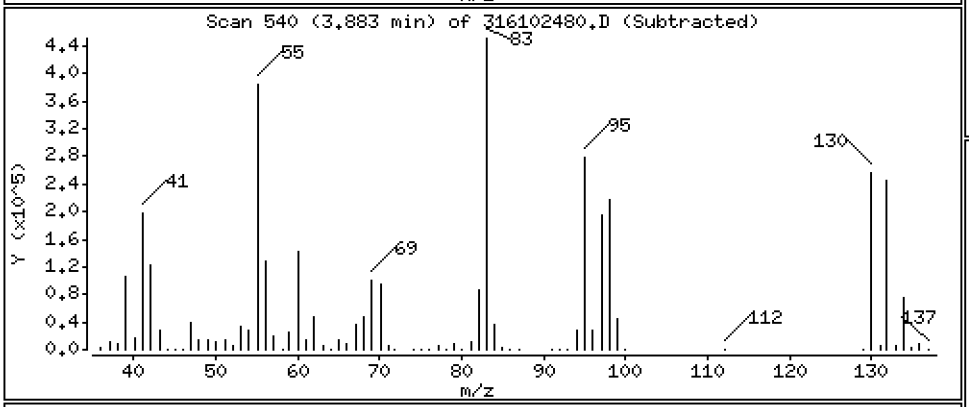
Sample Info: 1801;;1;2;4;;;

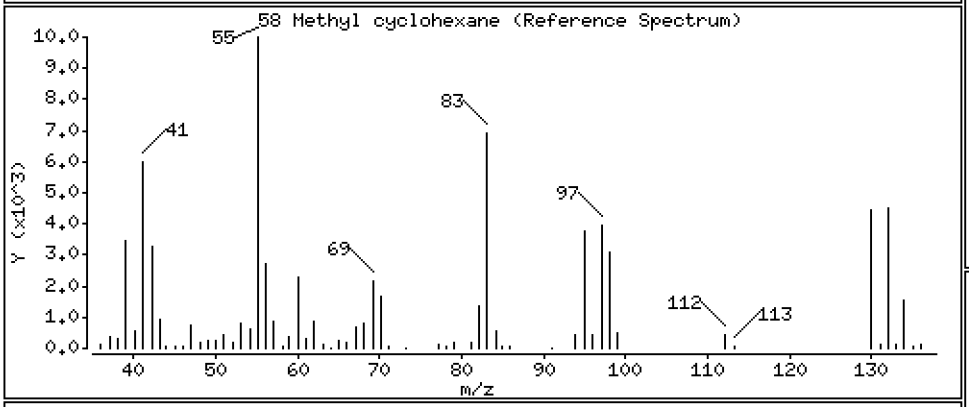
Purge Volume: 5.0 Operator: CJG

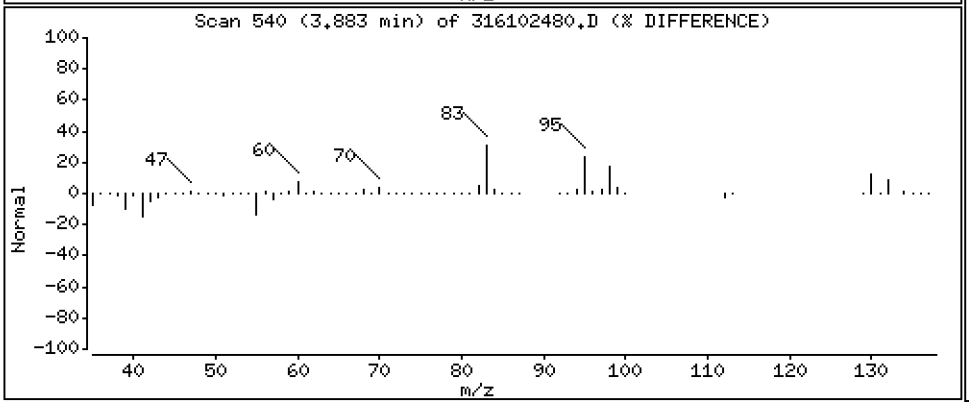
Column phase: DB-VRX Column diameter: 0.25

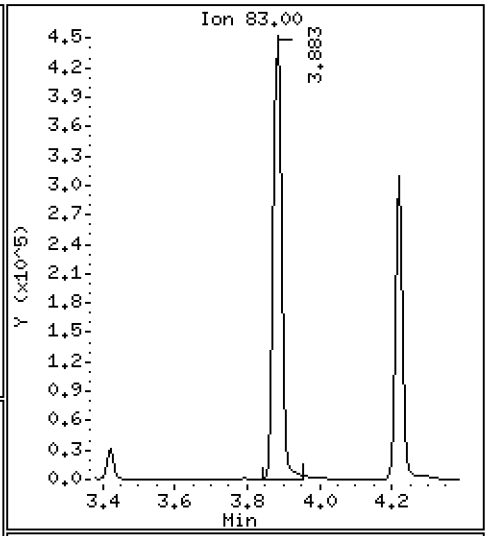
58 Methyl cyclohexane Concentration: 44.8020 ug/L

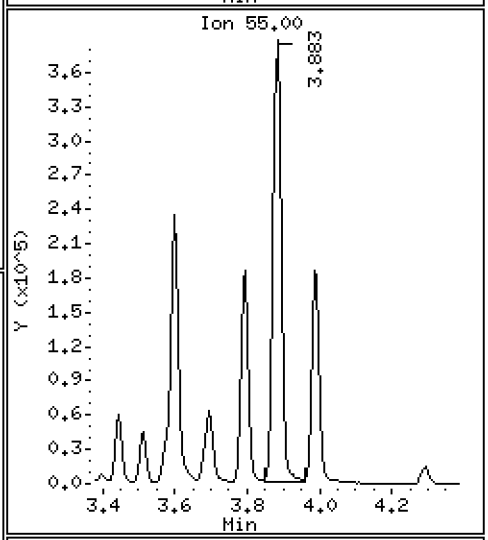


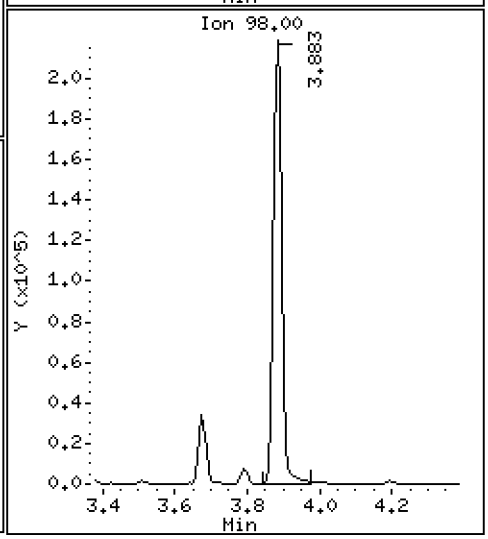












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 68

Date : 25-OCT-2016 09:17

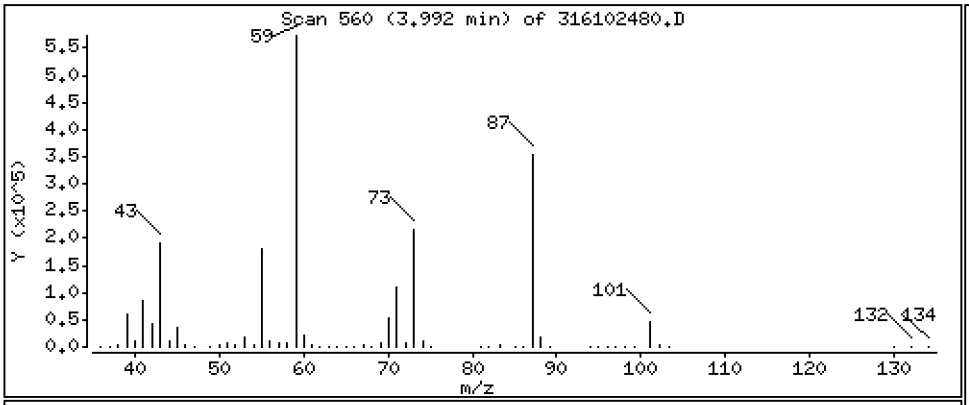
Client ID: Instrument: ms03.i

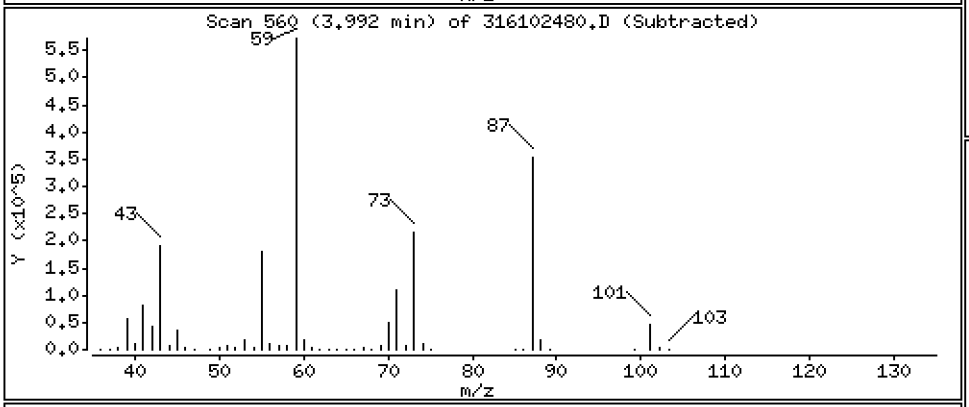
Sample Info: 1801;;1;2;4;;;

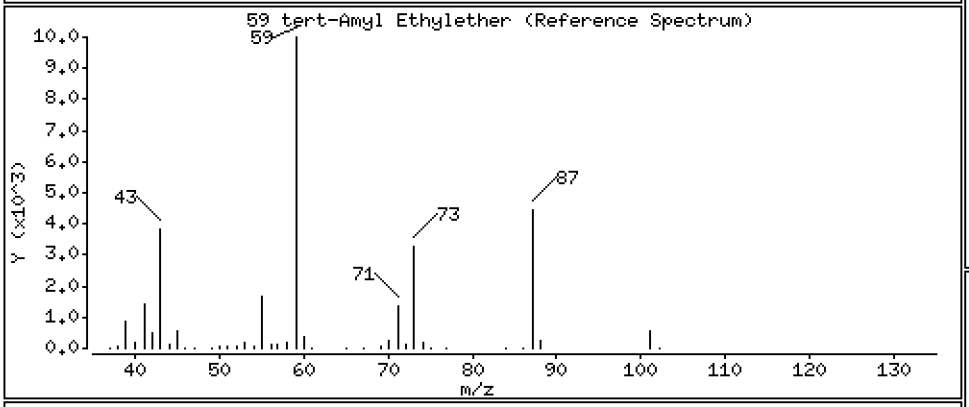
Purge Volume: 5.0 Operator: CJG

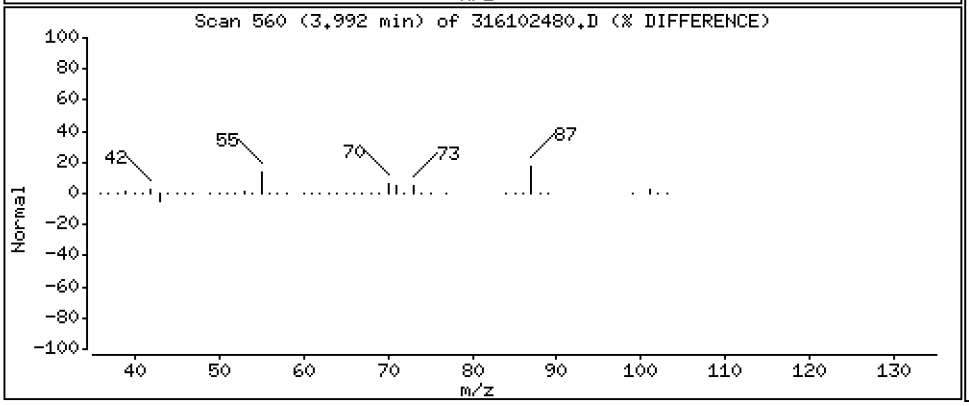
Column phase: DB-VRX Column diameter: 0.25

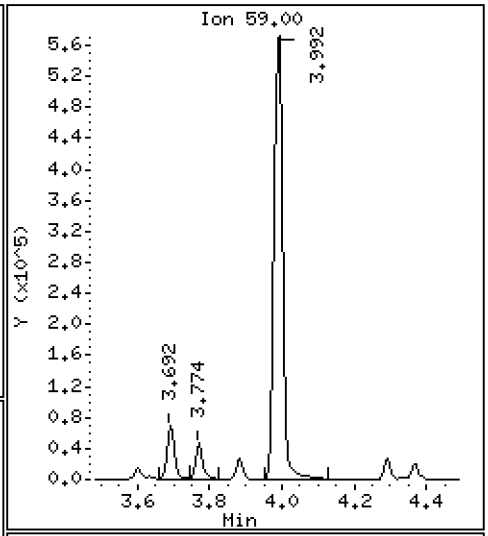
59 tert-Amyl Ethylether Concentration: 50.0091 ug/L

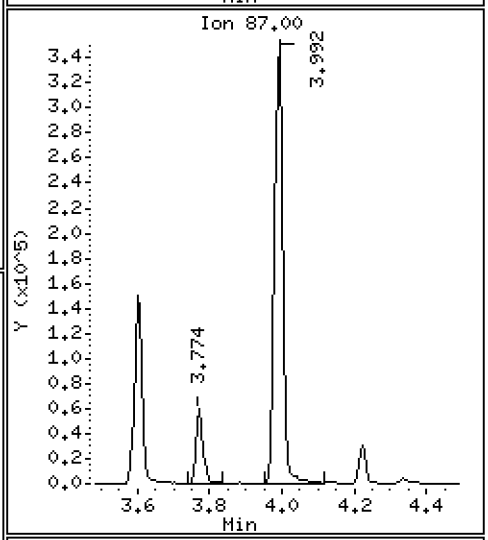


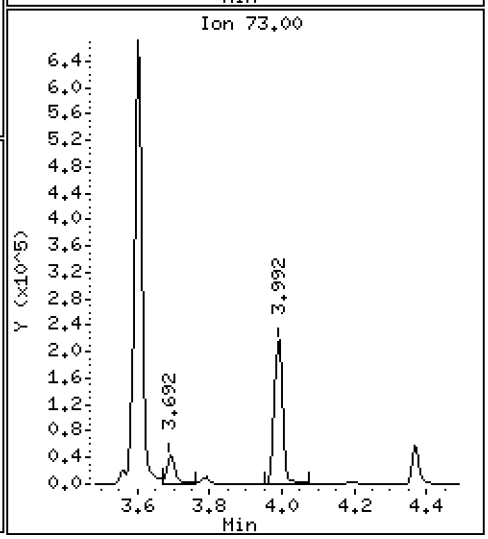












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 69

Date : 25-OCT-2016 09:17

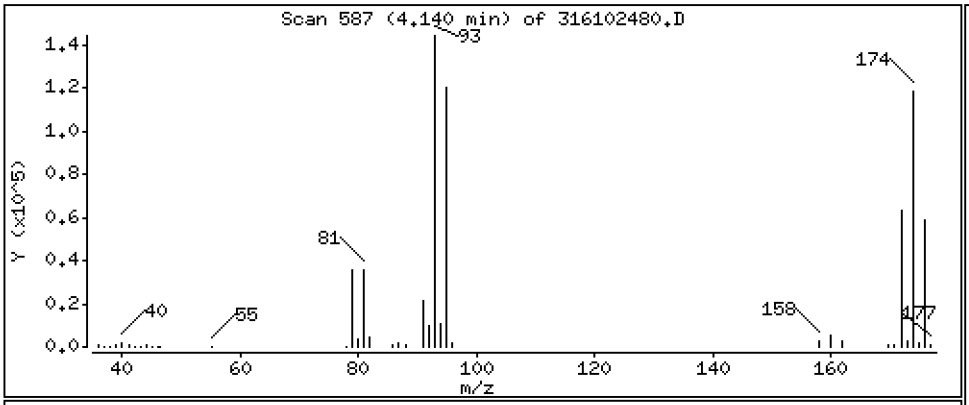
Client ID: Instrument: ms03.i

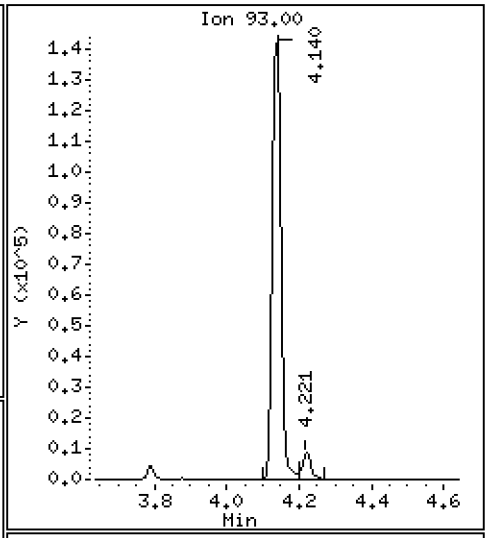
Sample Info: 1801;;1;2;4;;;

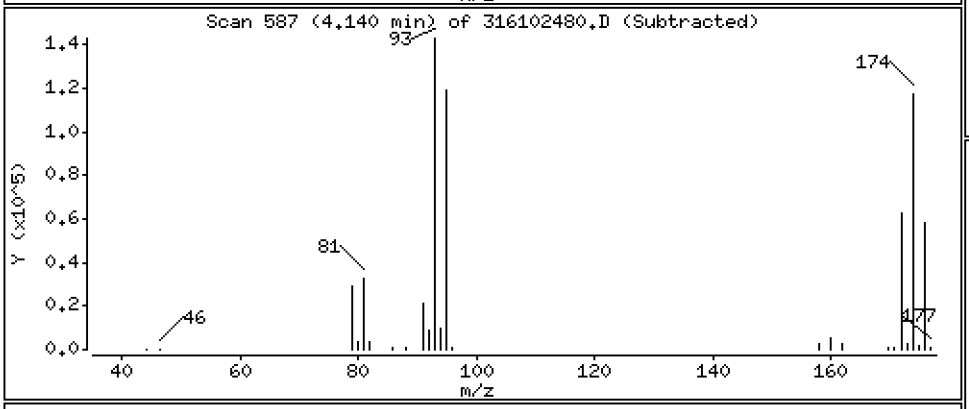
Purge Volume: 5.0 Operator: CJG

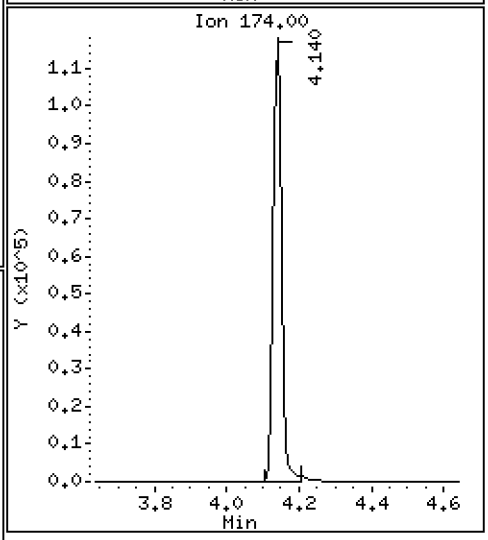
Column phase: DB-VRX Column diameter: 0.25

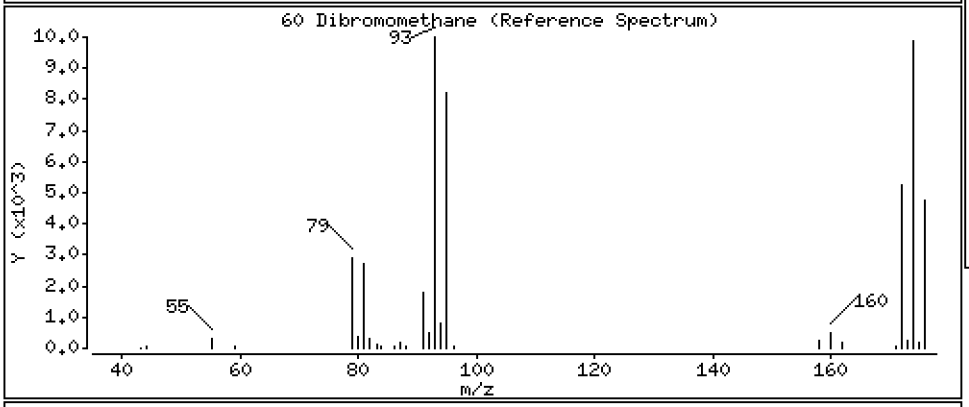
60 Dibromomethane Concentration: 46.6302 ug/L

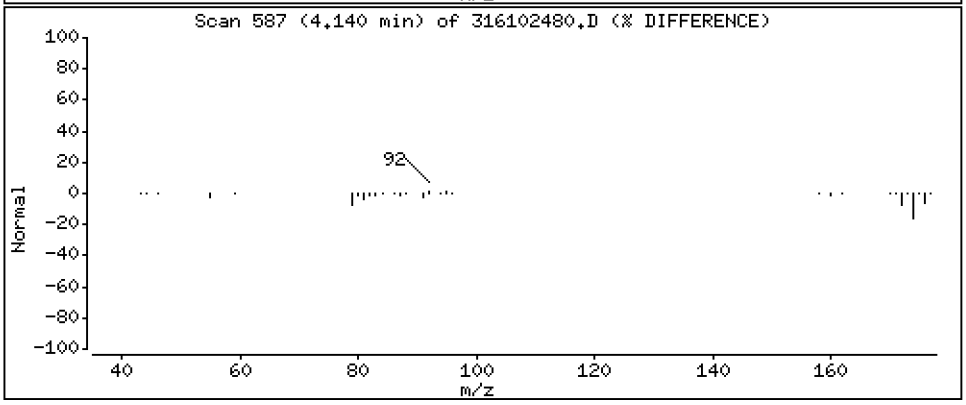












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 70

Date : 25-OCT-2016 09:17

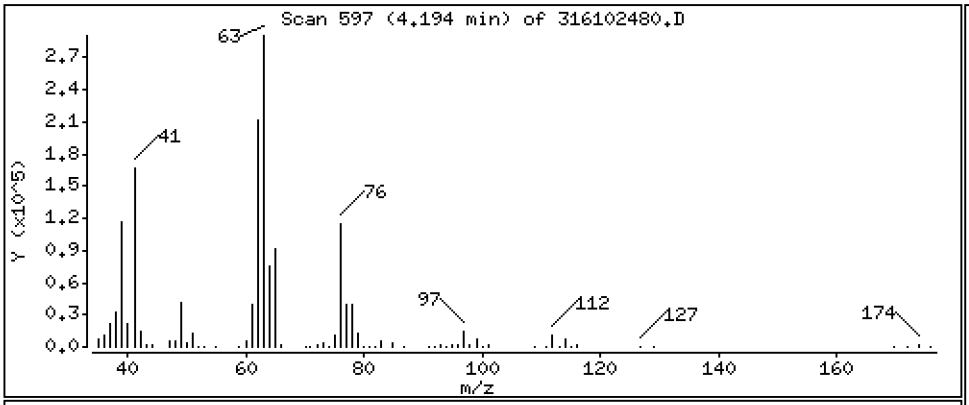
Client ID: Instrument: ms03.i

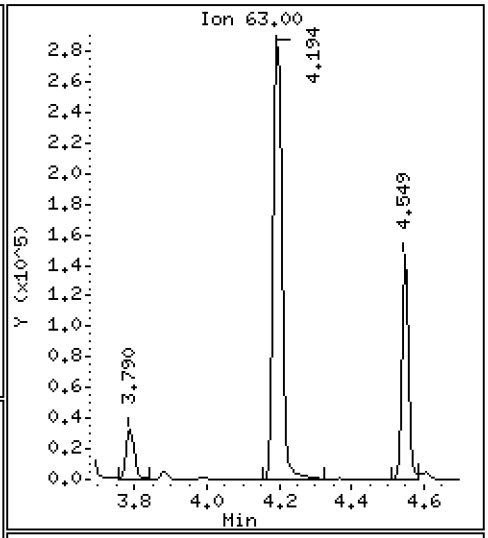
Sample Info: 1801;;1;2;4;;;

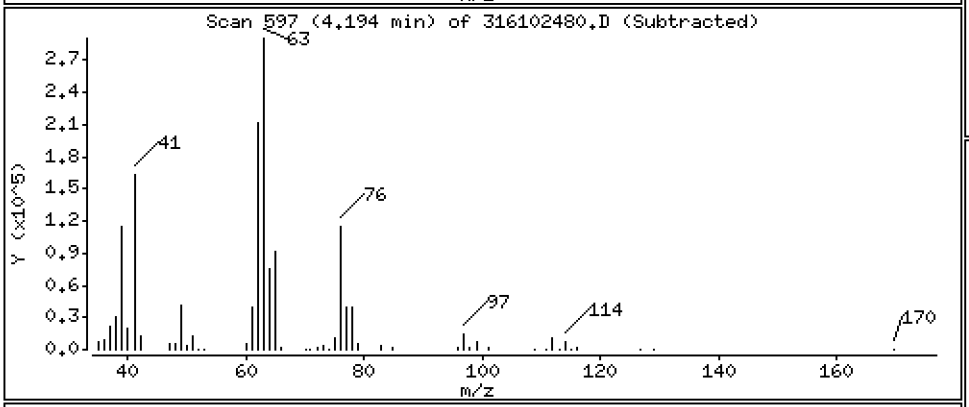
Purge Volume: 5.0 Operator: CJG

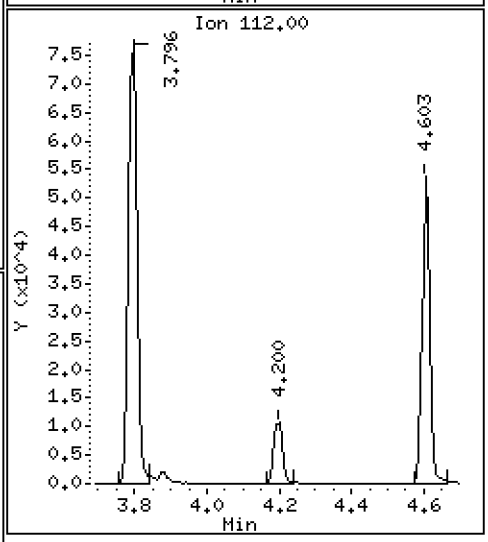
Column phase: DB-VRX Column diameter: 0.25

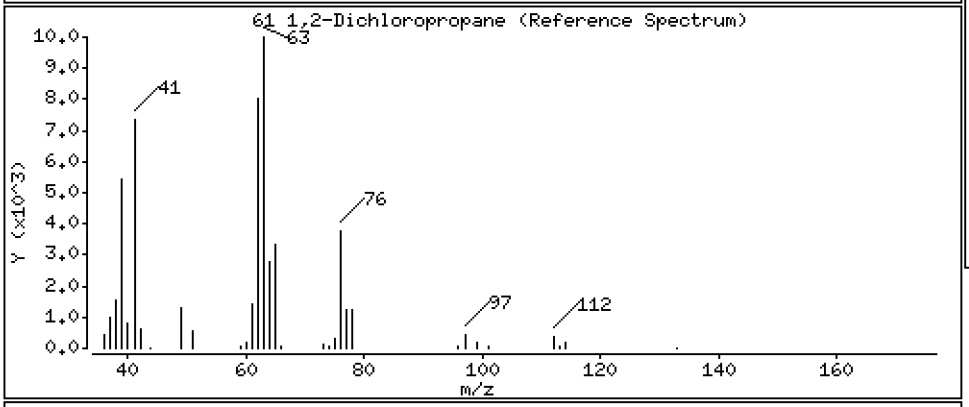
61 1,2-Dichloropropane Concentration: 47.4903 ug/L

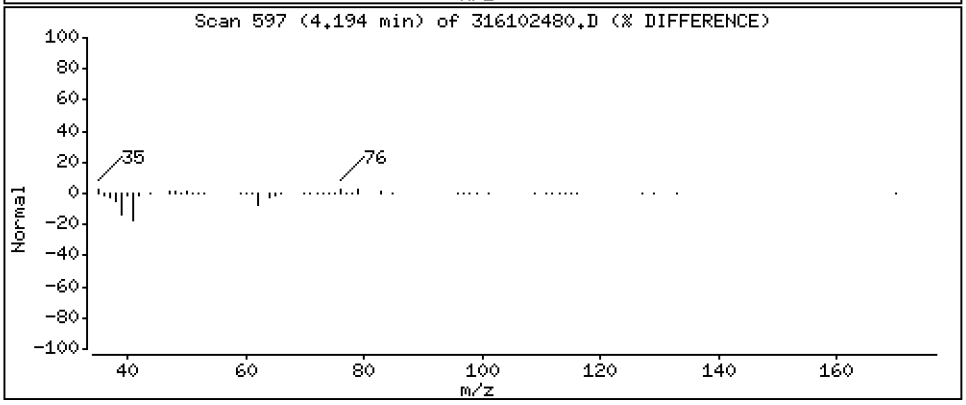












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 71

Date : 25-OCT-2016 09:17

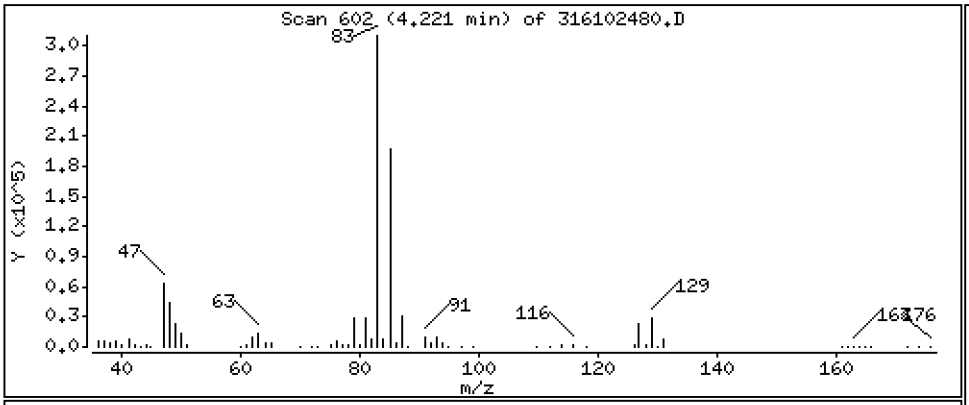
Client ID: Instrument: ms03.i

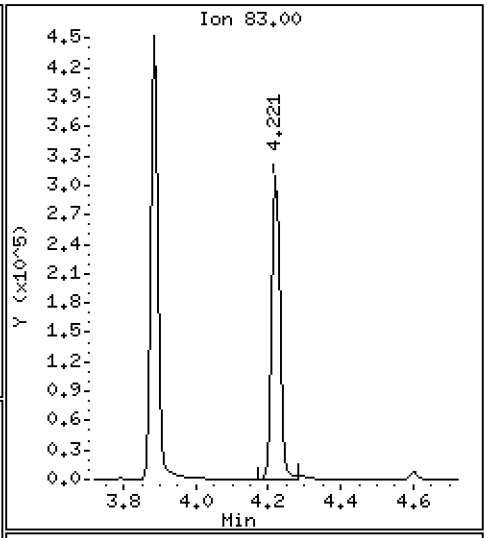
Sample Info: 1801;;1;2;4;;;

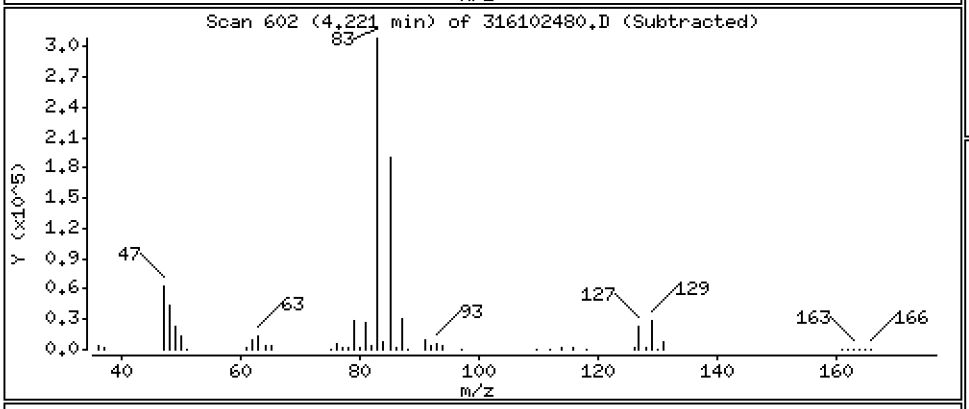
Purge Volume: 5.0 Operator: CJG

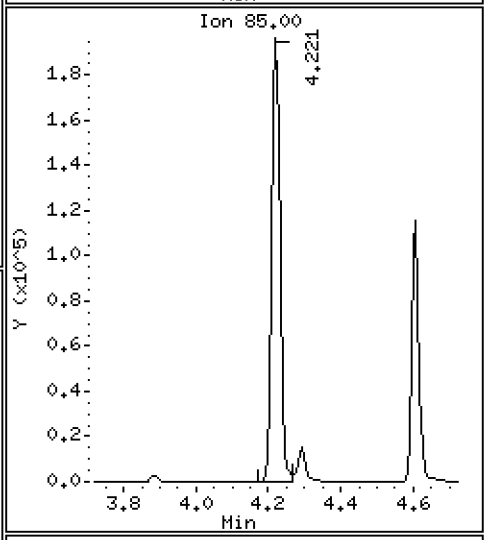
Column phase: DB-VRX Column diameter: 0.25

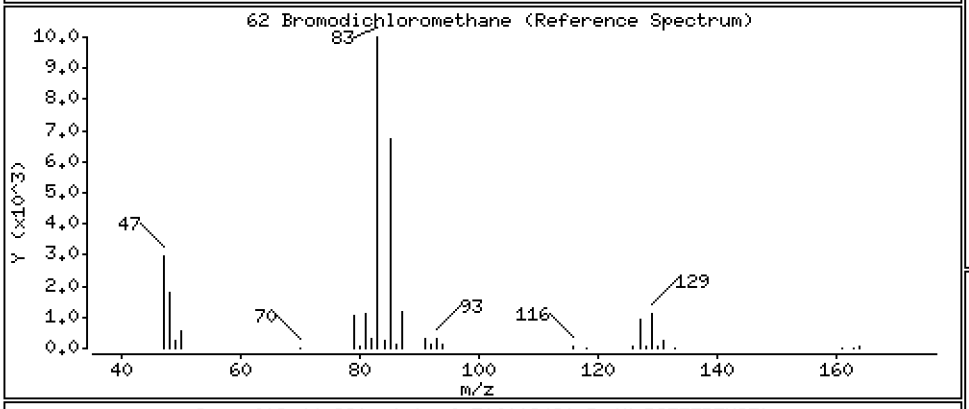
62 Bromodichloromethane Concentration: 47.9239 ug/L

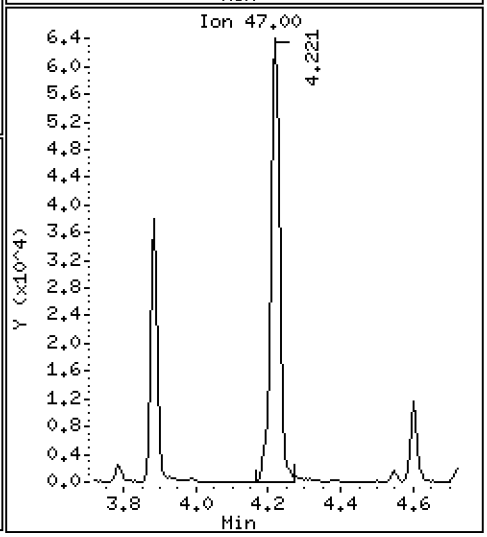


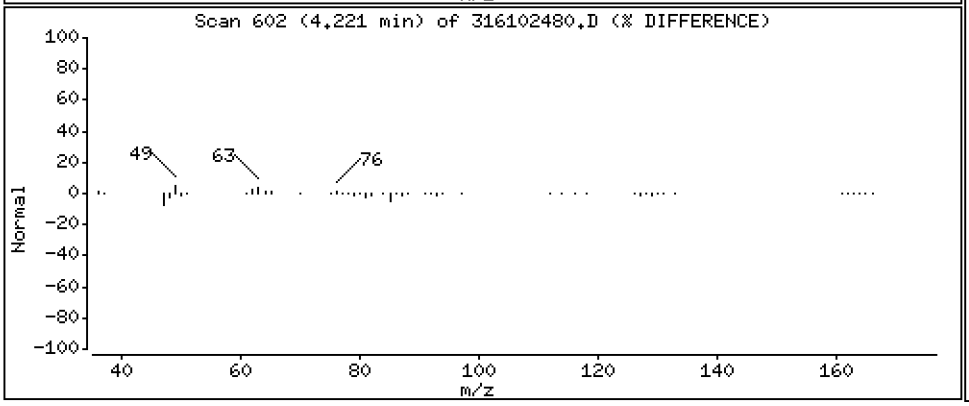












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 72

Date : 25-OCT-2016 09:17

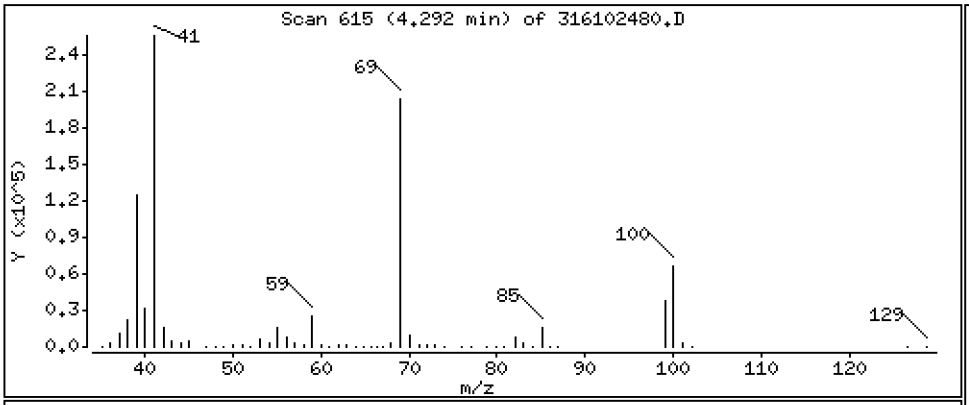
Client ID: Instrument: ms03.i

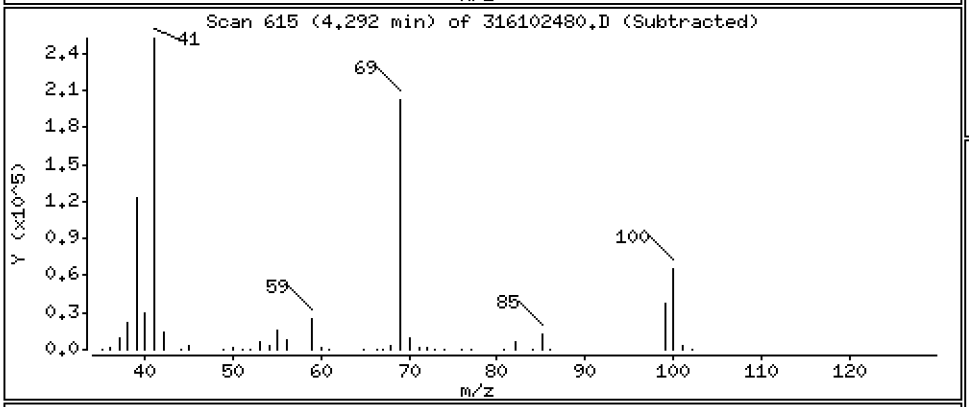
Sample Info: 1801;;1;2;4;;;

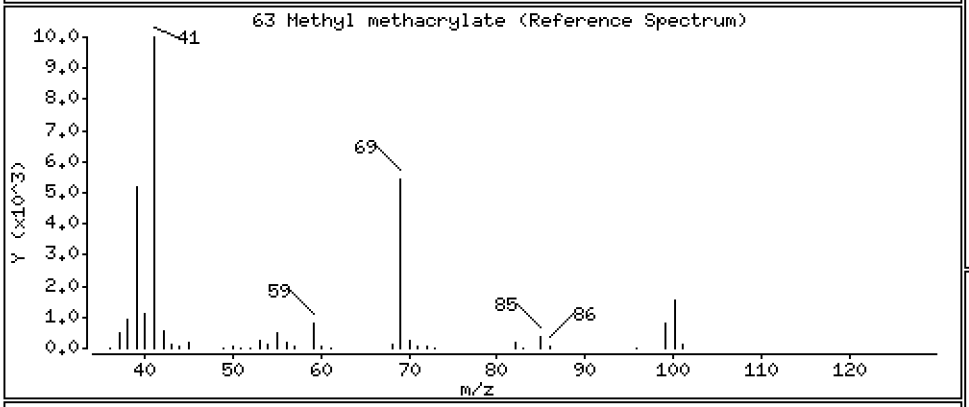
Purge Volume: 5.0 Operator: CJG

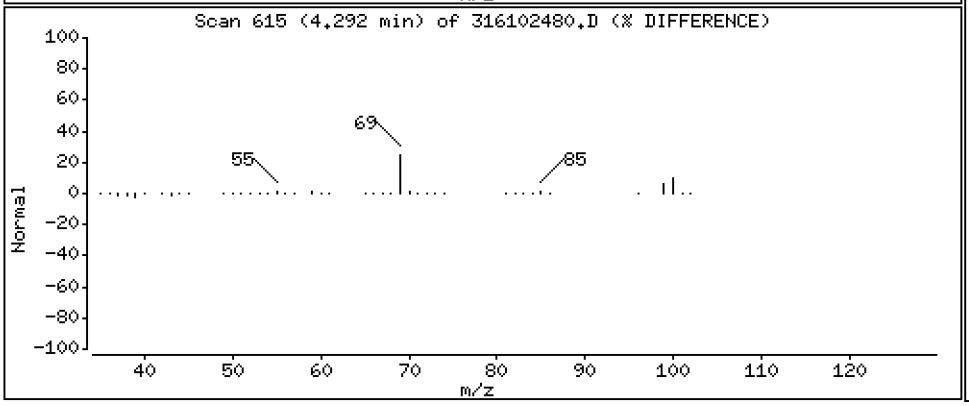
Column phase: DB-VRX Column diameter: 0.25

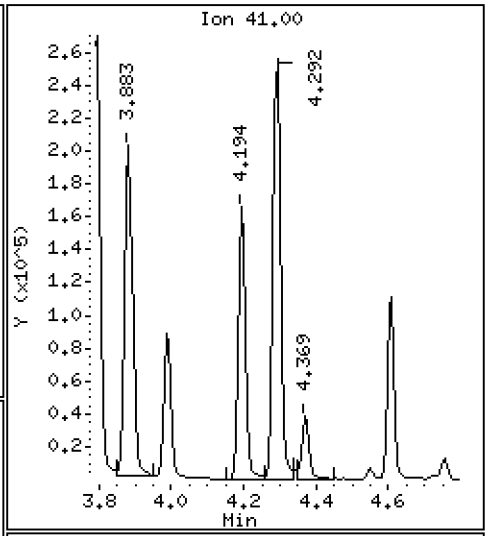
63 Methyl methacrylate Concentration: 52.7107 ug/L

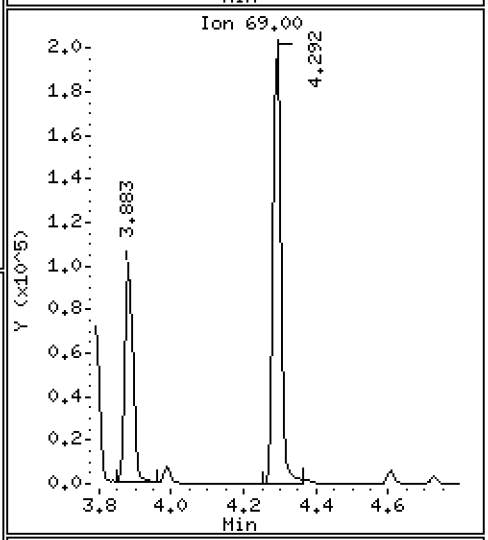


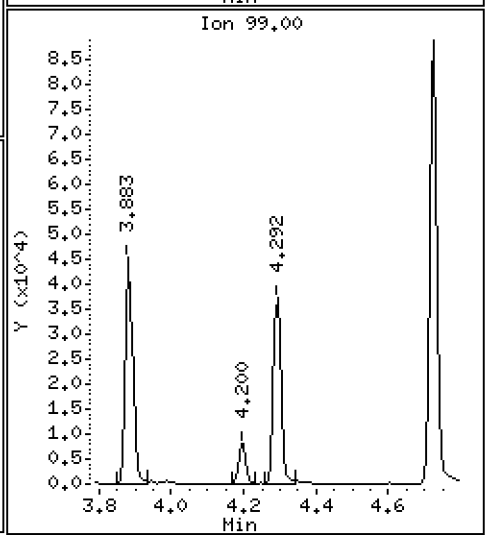












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 73

Date : 25-OCT-2016 09:17

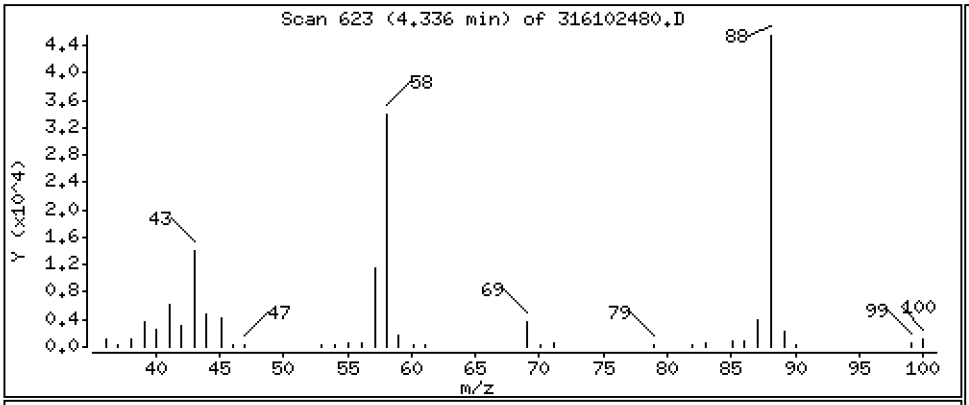
Client ID: Instrument: ms03.i

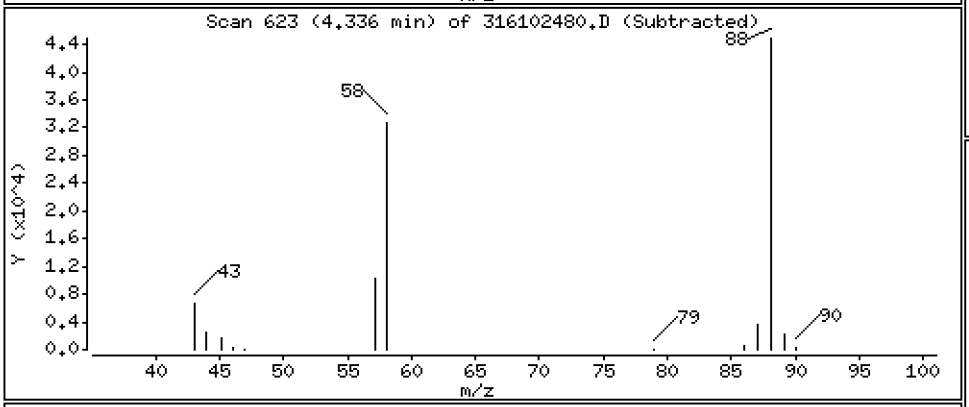
Sample Info: 1801;;1;2;4;;;

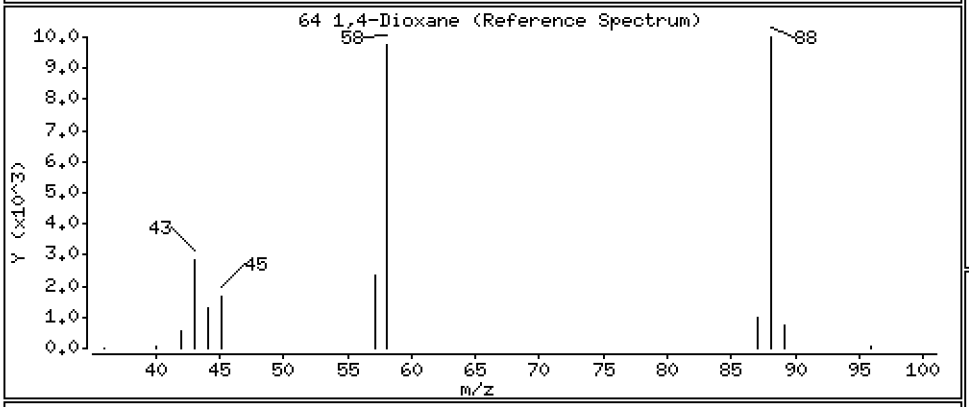
Purge Volume: 5.0 Operator: CJG

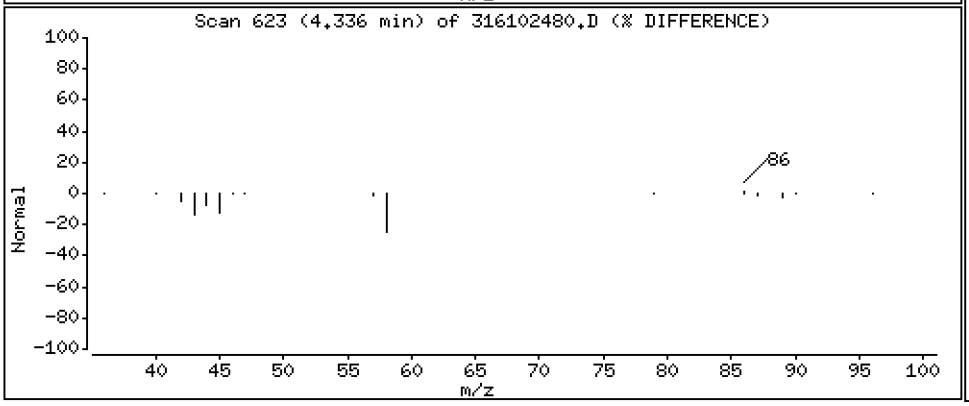
Column phase: DB-VRX Column diameter: 0.25

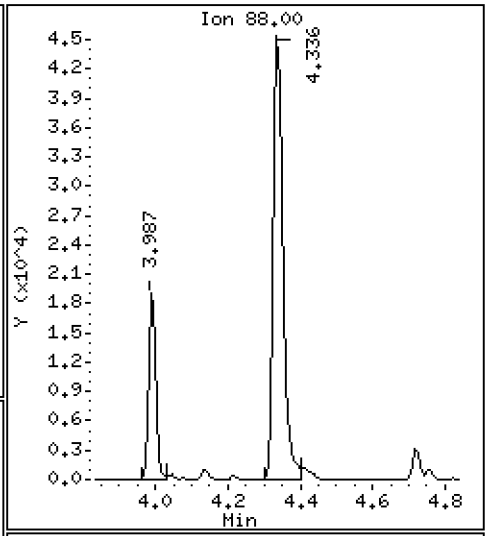
64 1,4-Dioxane Concentration: 2517.97 ug/L

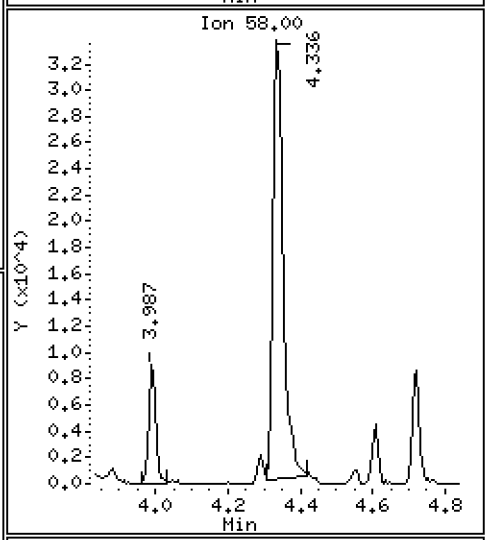


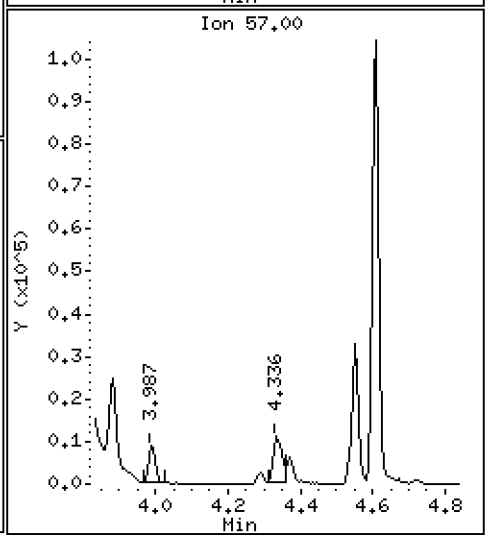












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 74

Date : 25-OCT-2016 09:17

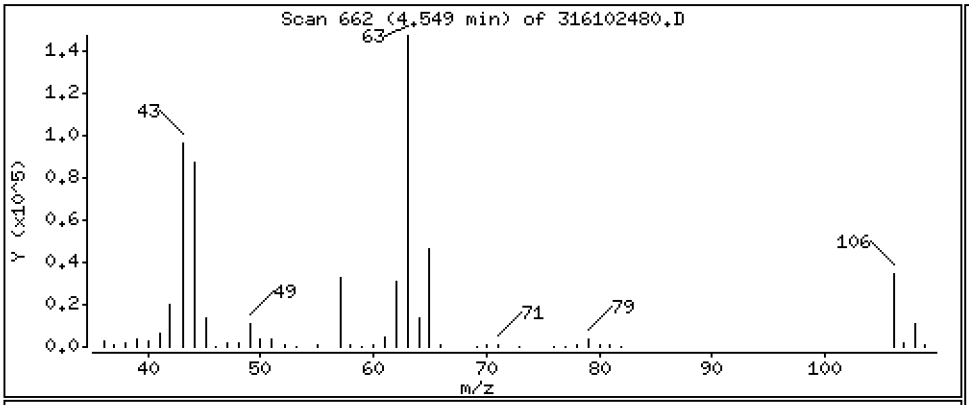
Client ID: Instrument: ms03.i

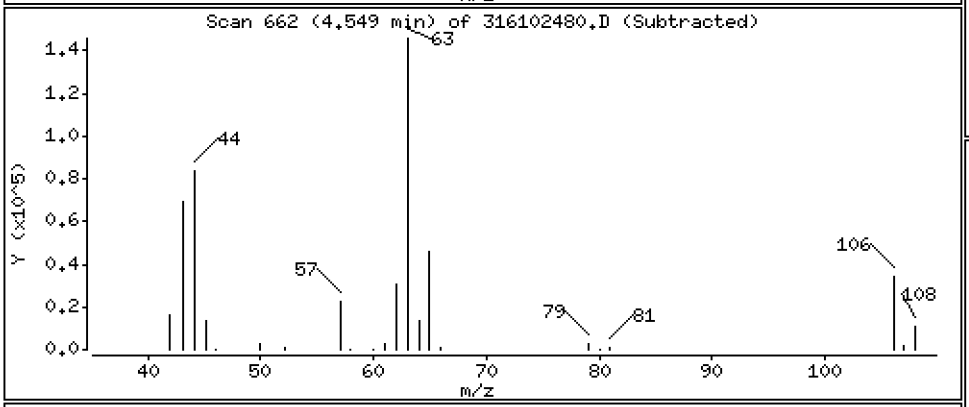
Sample Info: 1801;;1;2;4;;;

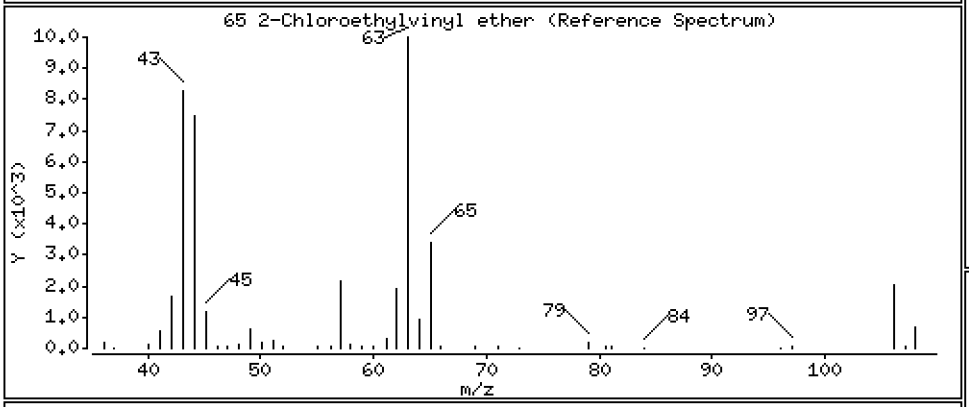
Purge Volume: 5.0 Operator: CJG

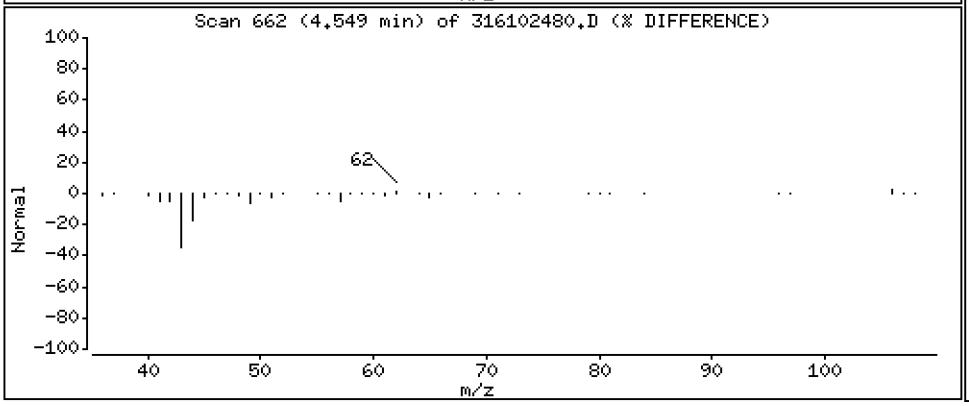
Column phase: DB-VRX Column diameter: 0.25

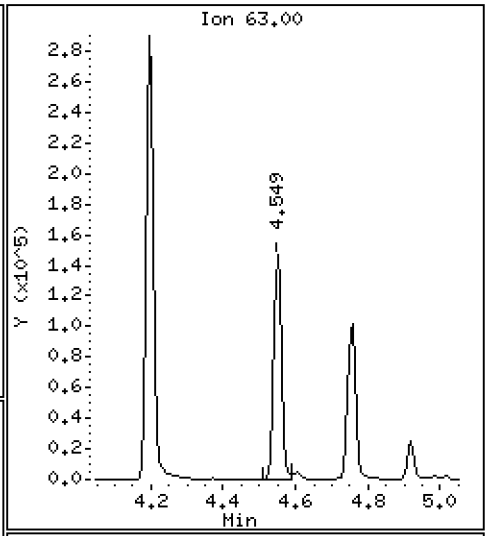
65 2-Chloroethylvinyl ether Concentration: 43.3983 ug/L

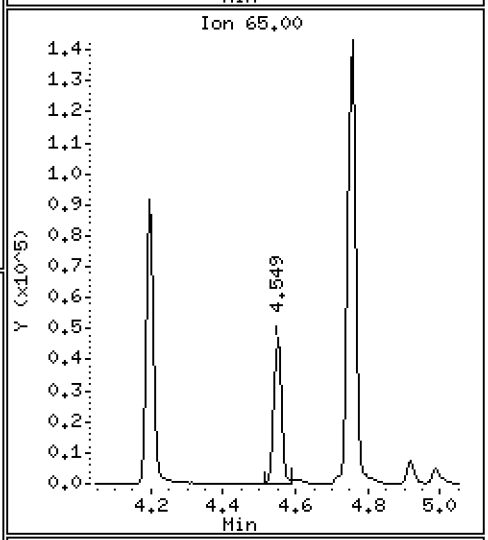


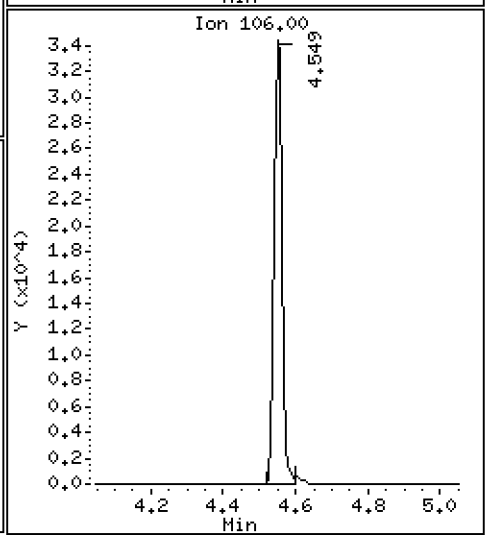












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 75

Date : 25-OCT-2016 09:17

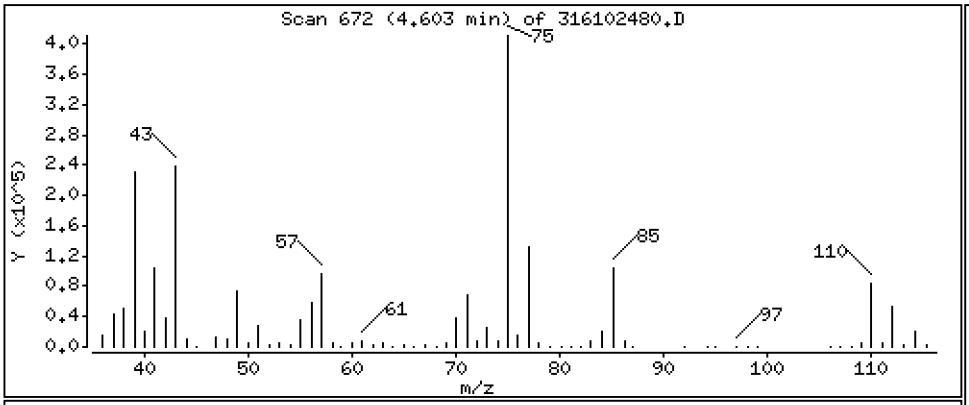
Client ID: Instrument: ms03.i

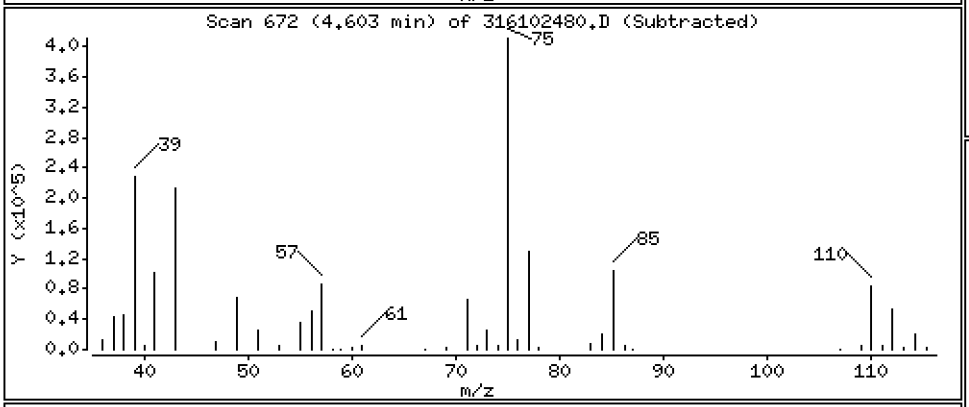
Sample Info: 1801;;1;2;4;;;

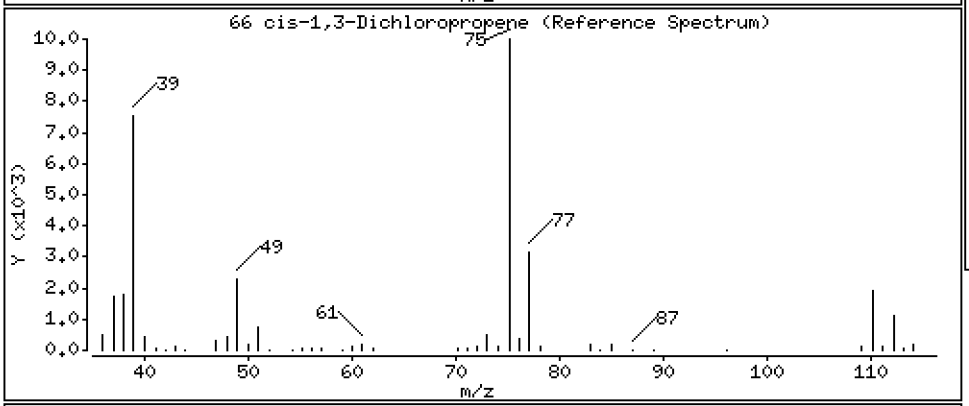
Purge Volume: 5.0 Operator: CJG

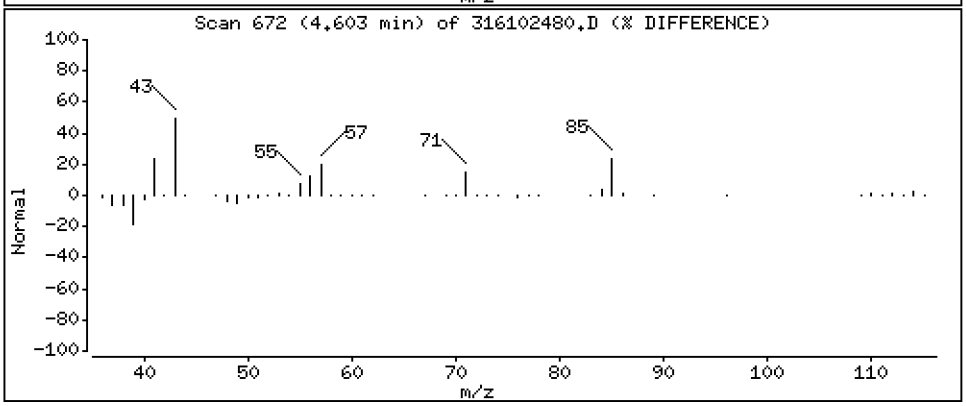
Column phase: DB-VRX Column diameter: 0.25

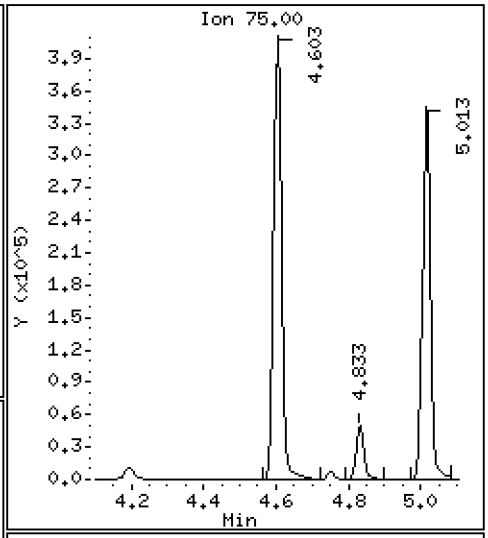
66 cis-1,3-Dichloropropene Concentration: 47.4055 ug/L

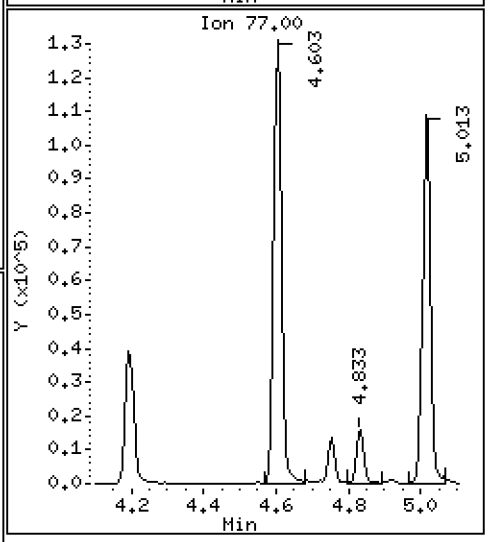












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 76

Date : 25-OCT-2016 09:17

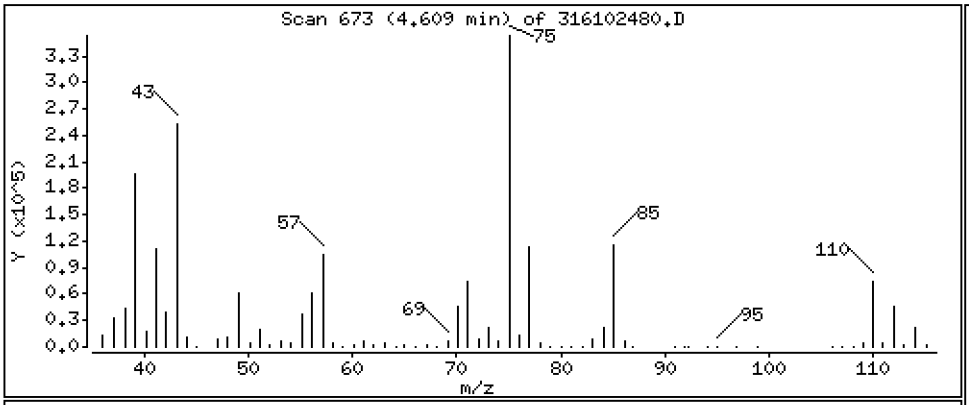
Client ID: Instrument: ms03.i

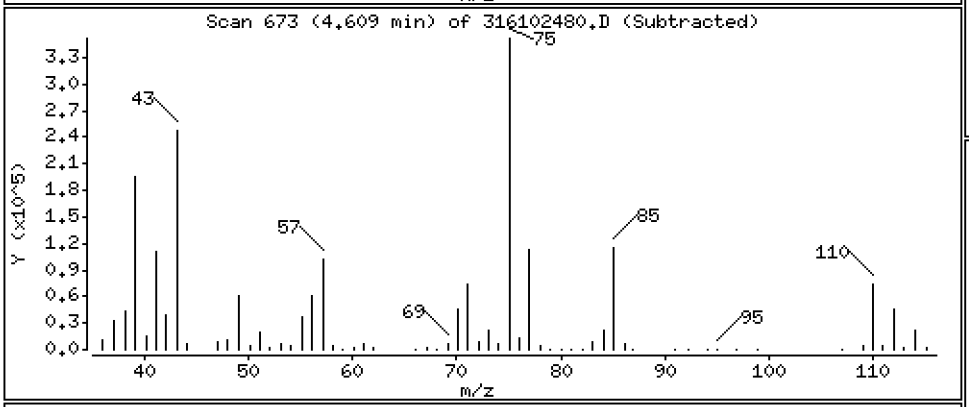
Sample Info: 1801;;1;2;4;;;

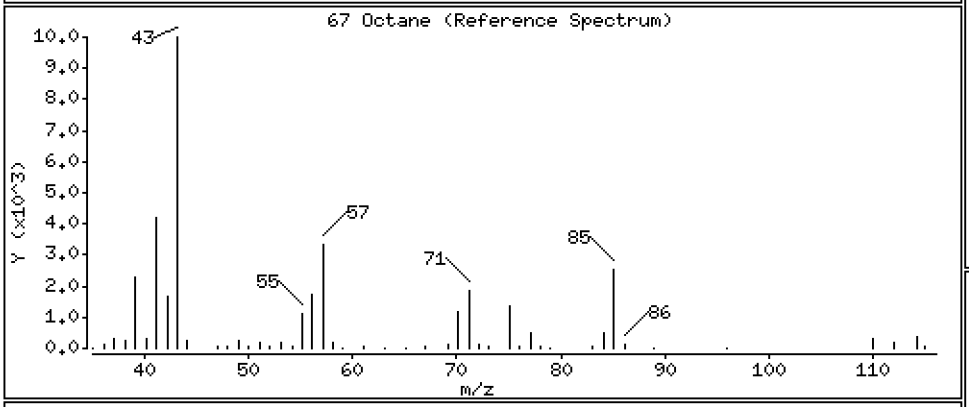
Purge Volume: 5.0 Operator: CJG

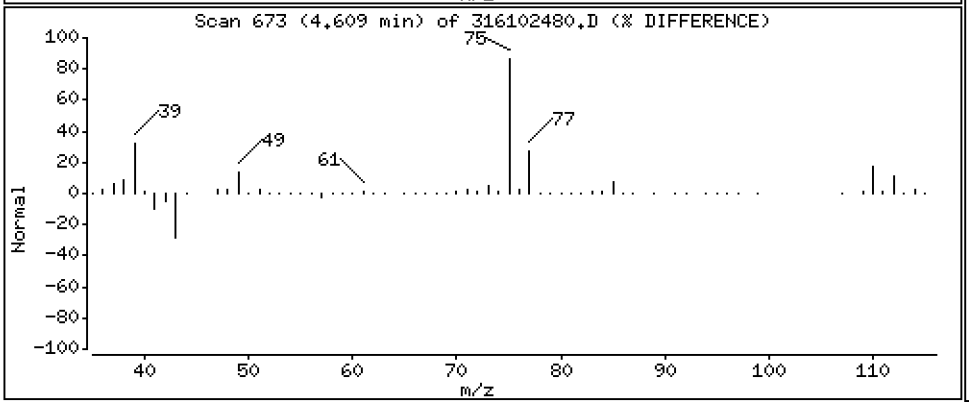
Column phase: DB-VRX Column diameter: 0.25

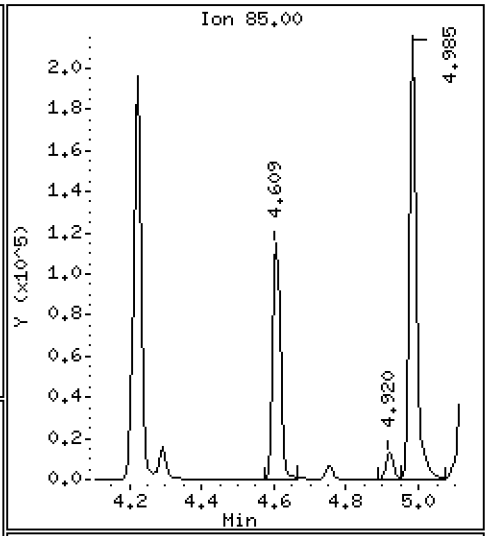
67 Octane Concentration: 42.6346 ug/L

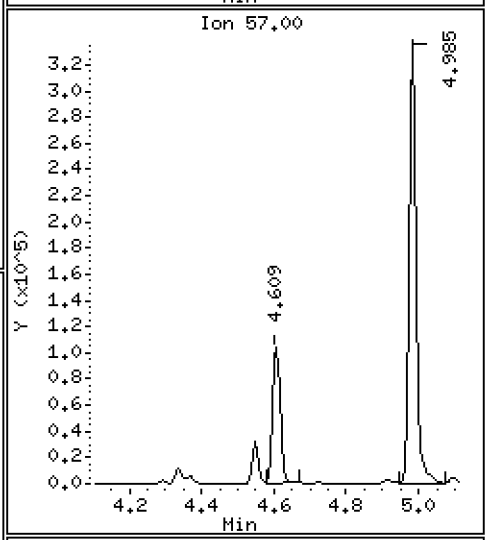


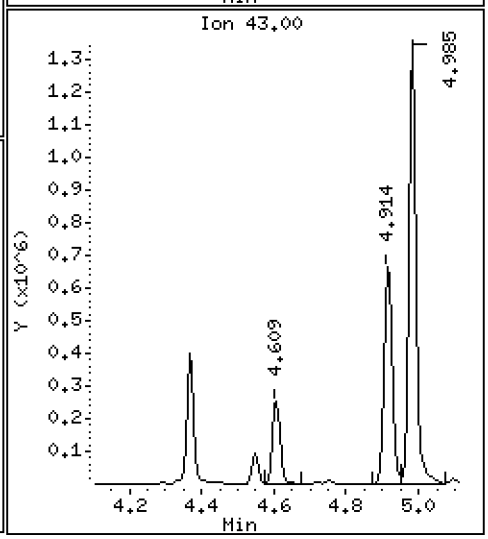












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 77

Date : 25-OCT-2016 09:17

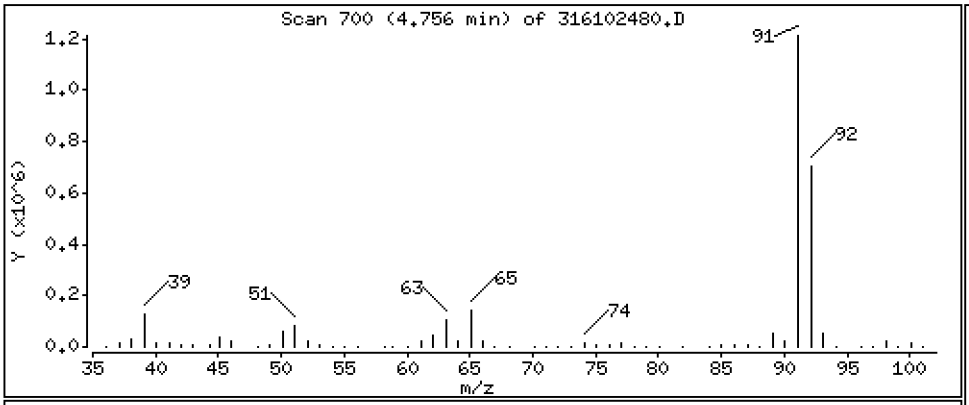
Client ID: Instrument: ms03.i

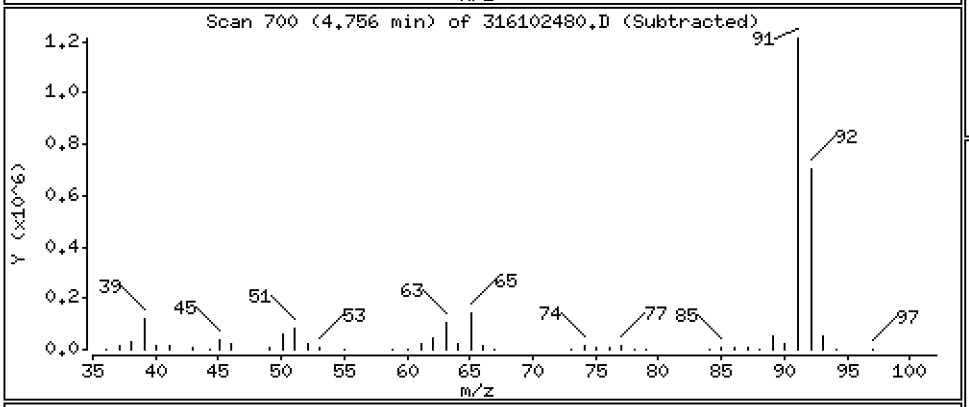
Sample Info: 1801;;1;2;4;;;

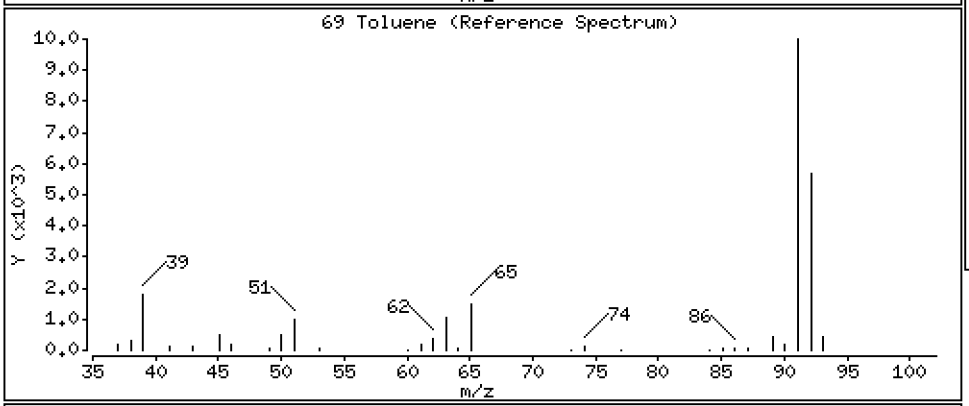
Purge Volume: 5.0 Operator: CJG

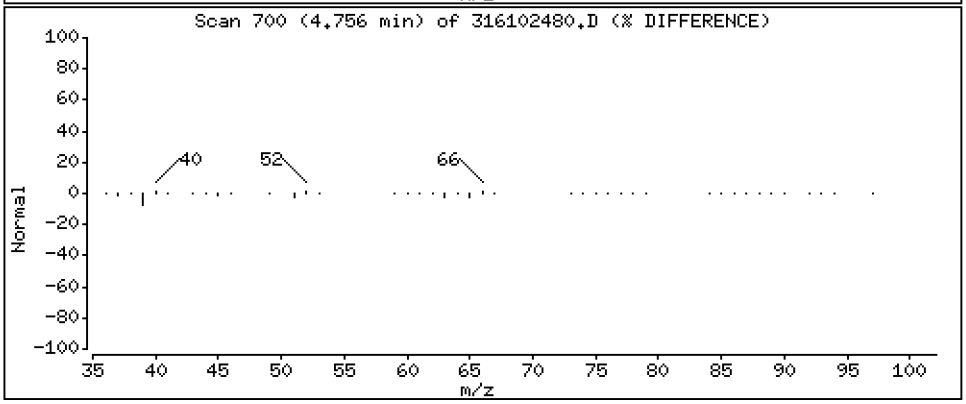
Column phase: DB-VRX Column diameter: 0.25

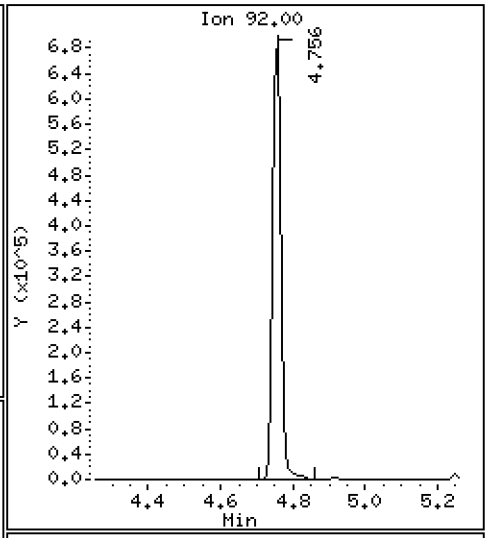
69 Toluene Concentration: 46.3081 ug/L

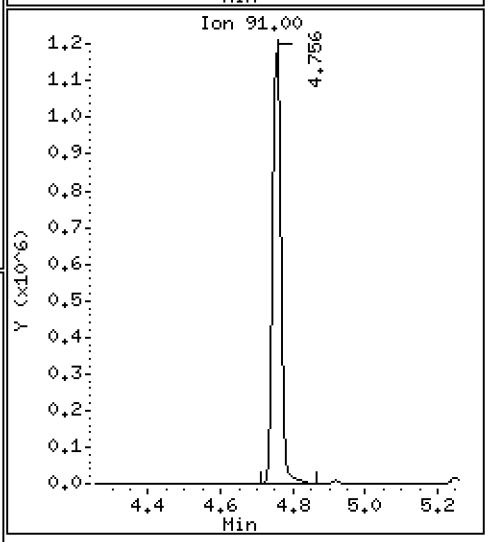












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 78

Date : 25-OCT-2016 09:17

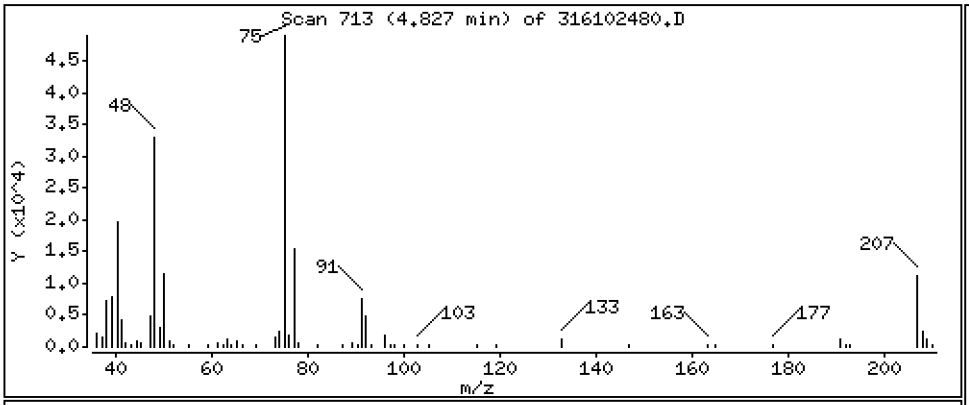
Client ID: Instrument: ms03.i

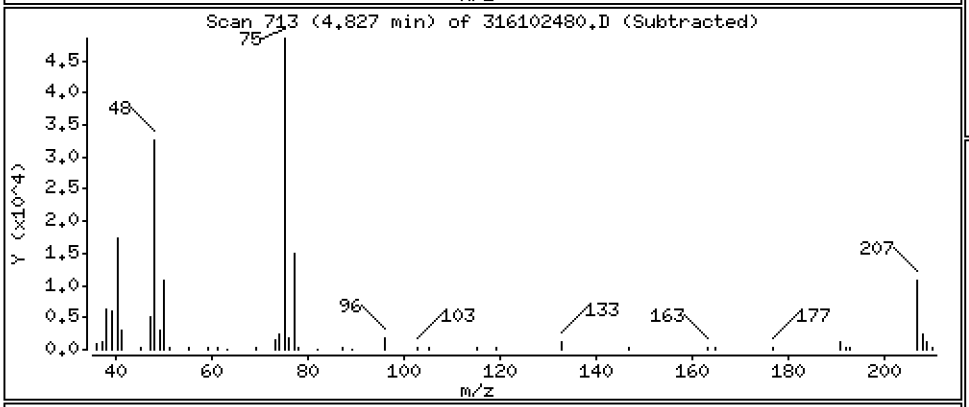
Sample Info: 1801;;1;2;4;;;

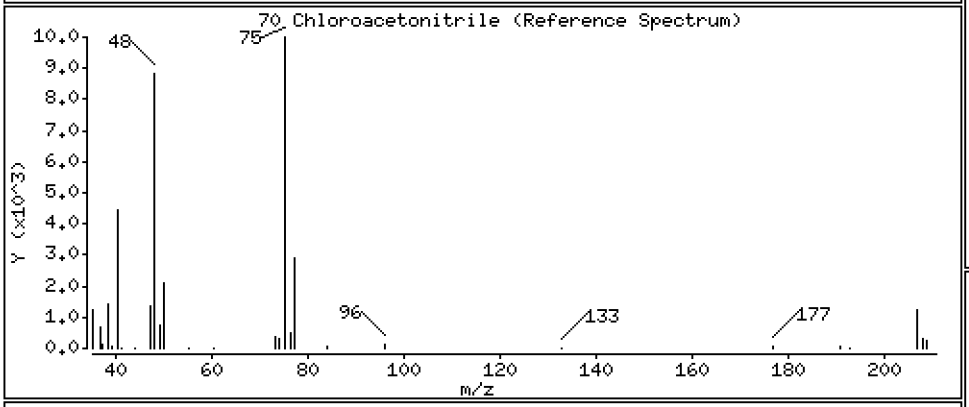
Purge Volume: 5.0 Operator: CJG

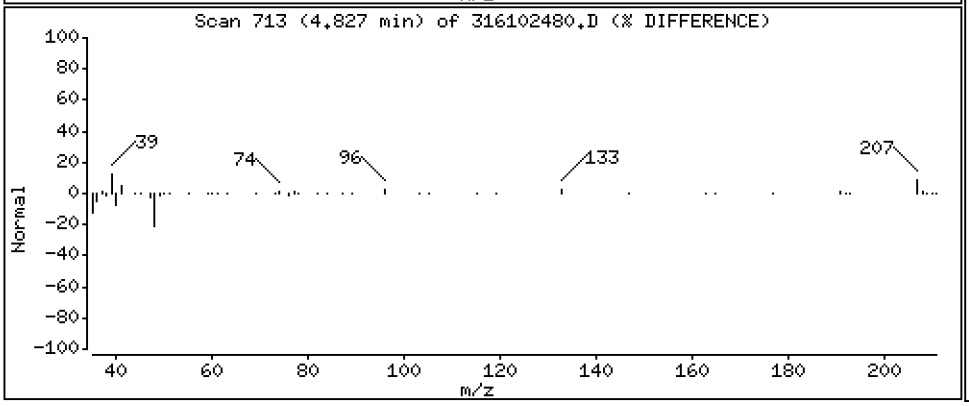
Column phase: DB-VRX Column diameter: 0.25

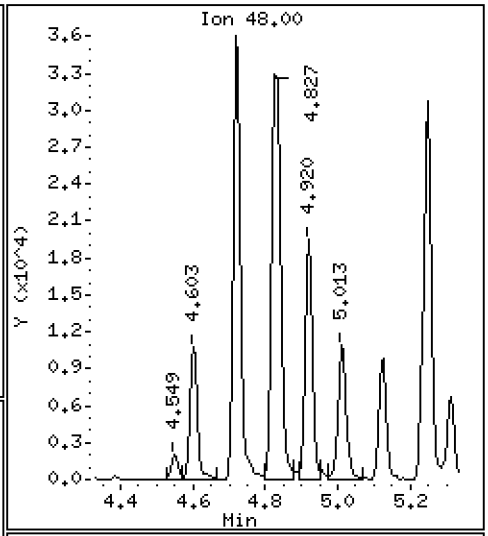
70 Chloroacetonitrile Concentration: 268.693 ug/L

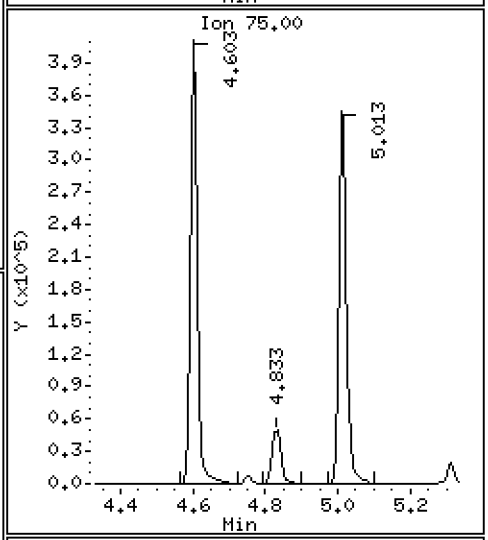


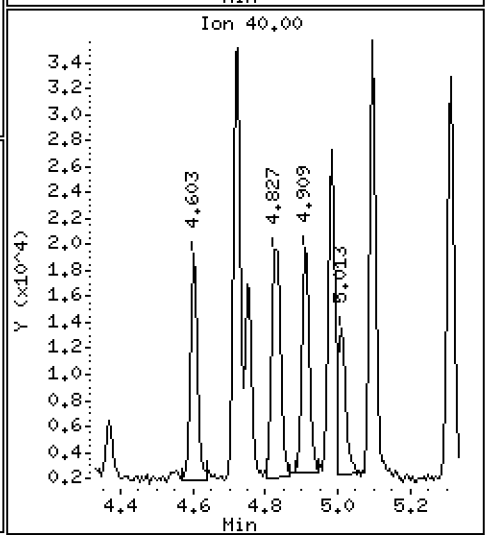












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 79

Date : 25-OCT-2016 09:17

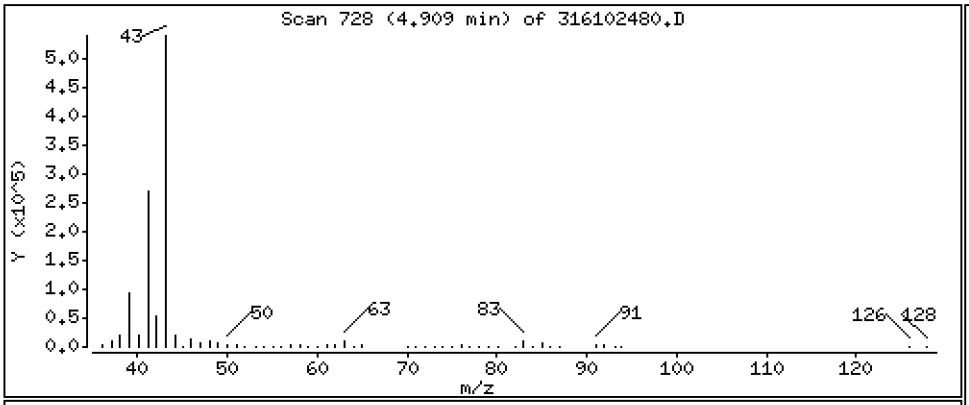
Client ID: Instrument: ms03.i

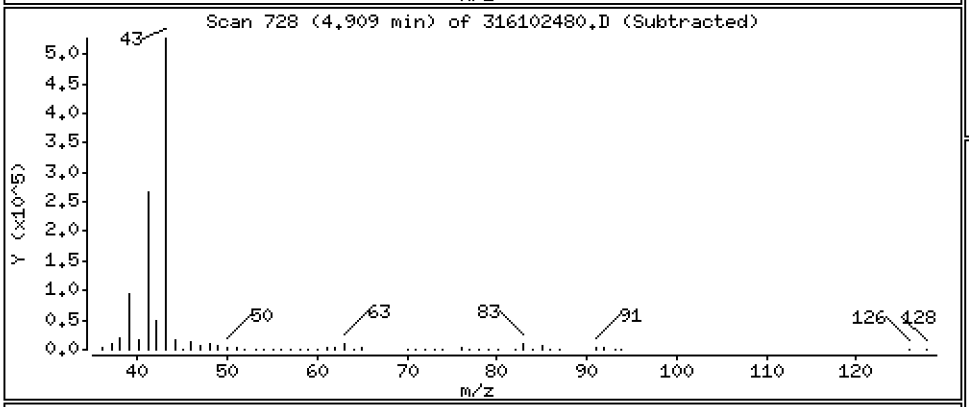
Sample Info: 1801;;1;2;4;;;

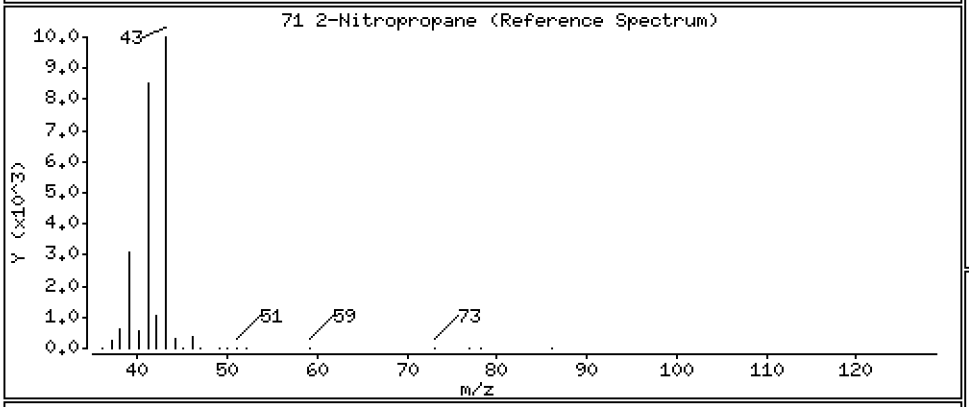
Purge Volume: 5.0 Operator: CJG

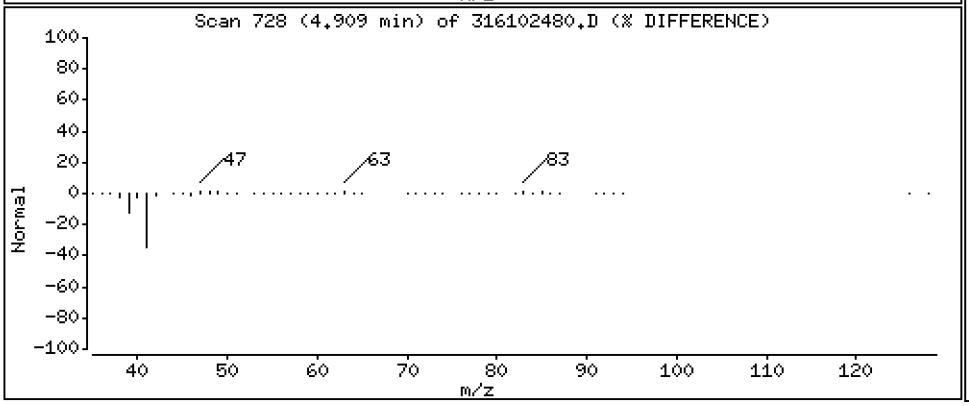
Column phase: DB-VRX Column diameter: 0.25

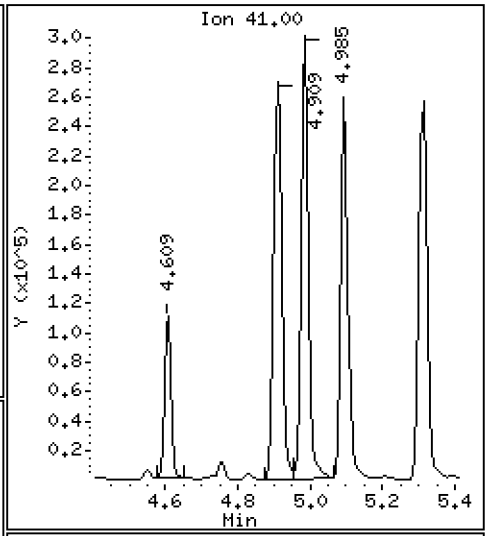
71 2-Nitropropane Concentration: 247.303 ug/L

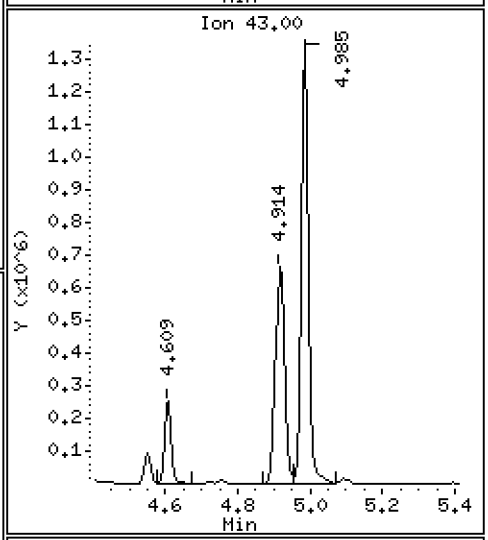


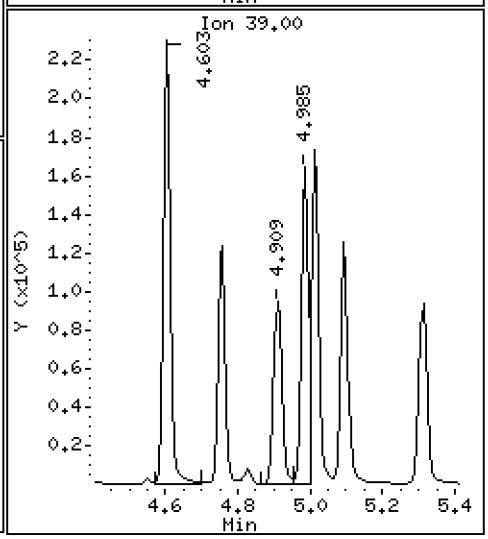












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 80

Date : 25-OCT-2016 09:17

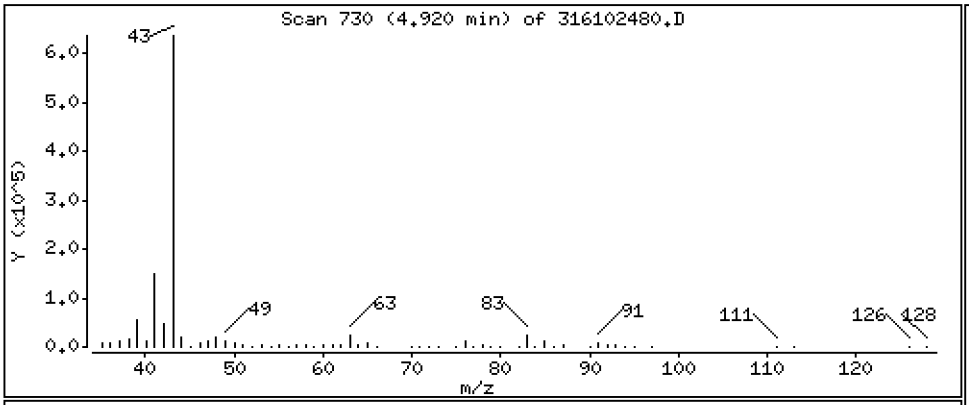
Client ID: Instrument: ms03.i

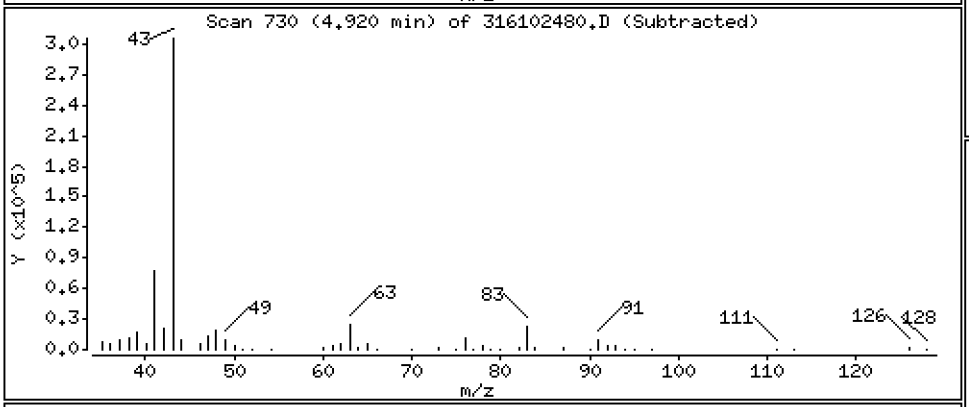
Sample Info: 1801;;1;2;4;;;

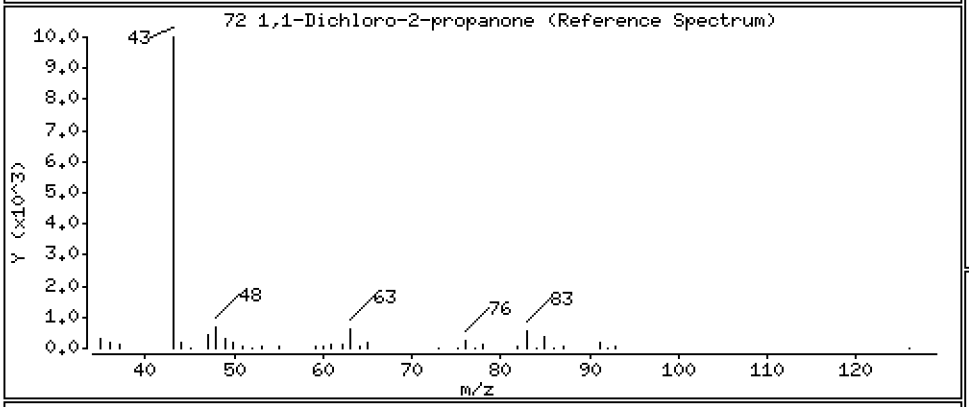
Purge Volume: 5.0 Operator: CJG

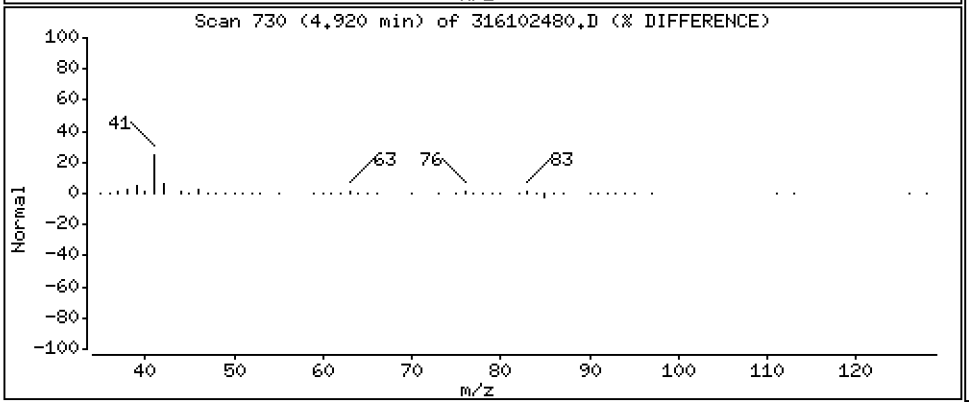
Column phase: DB-VRX Column diameter: 0.25

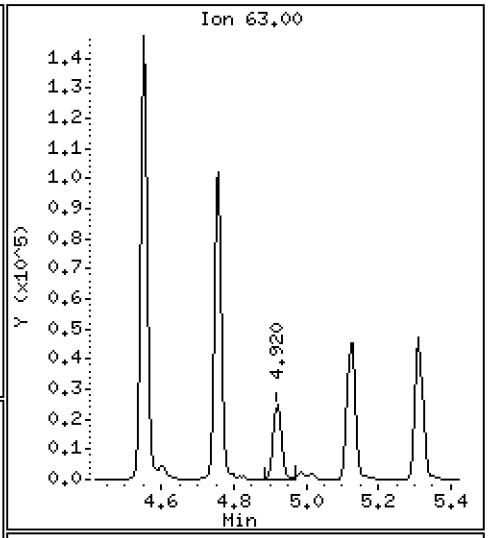
72 1,1-Dichloro-2-propanone Concentration: 248.633 ug/L

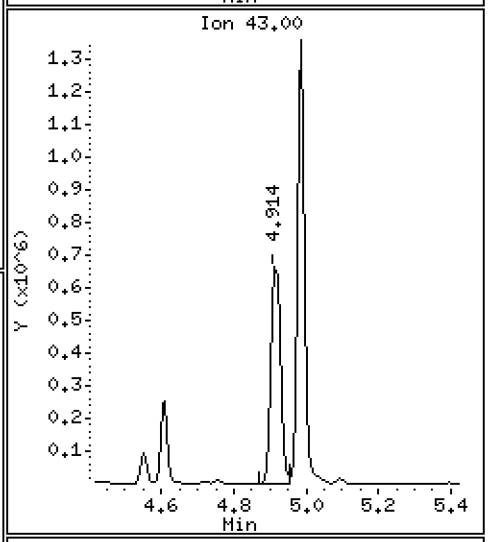


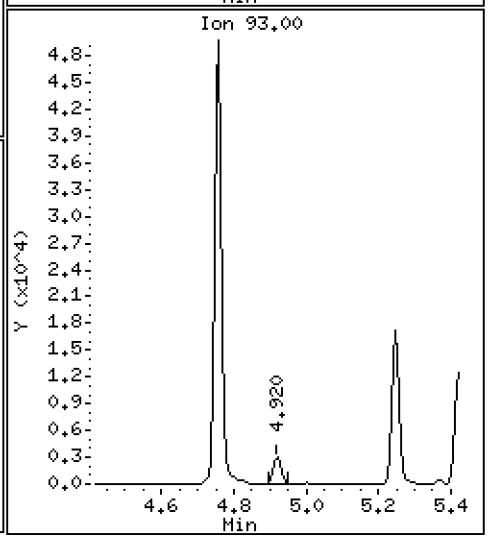












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 81

Date : 25-OCT-2016 09:17

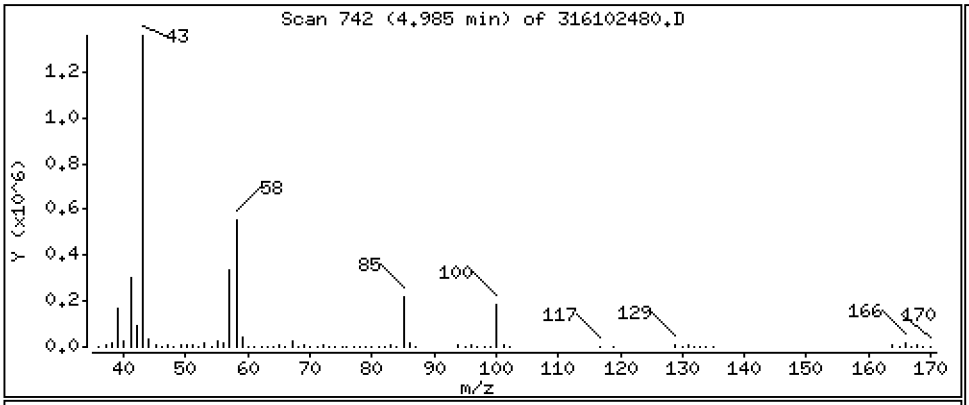
Client ID: Instrument: ms03.i

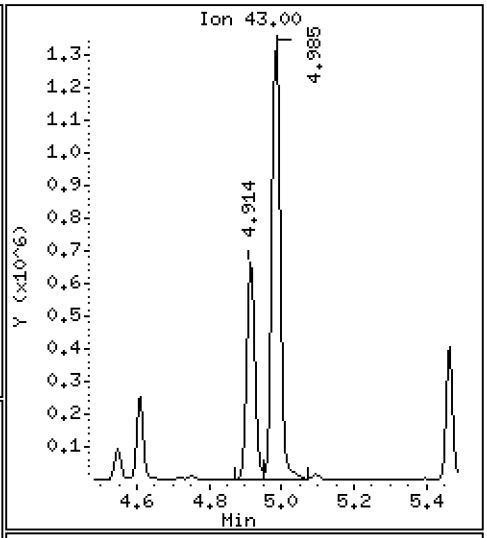
Sample Info: 1801;;1;2;4;;;

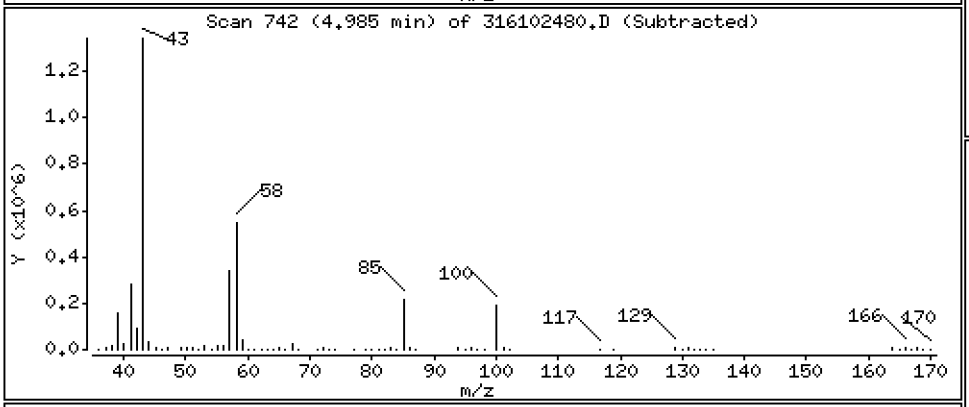
Purge Volume: 5.0 Operator: CJG

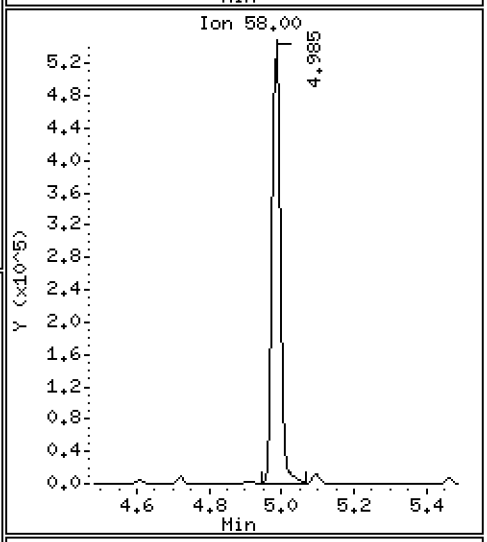
Column phase: DB-VRX Column diameter: 0.25

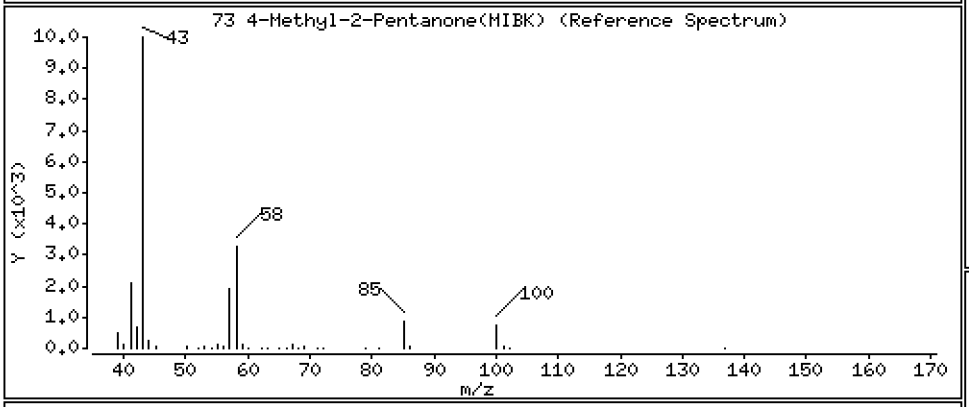
73 4-Methyl-2-Pentanone(MIBK) Concentration: 268.312 ug/L

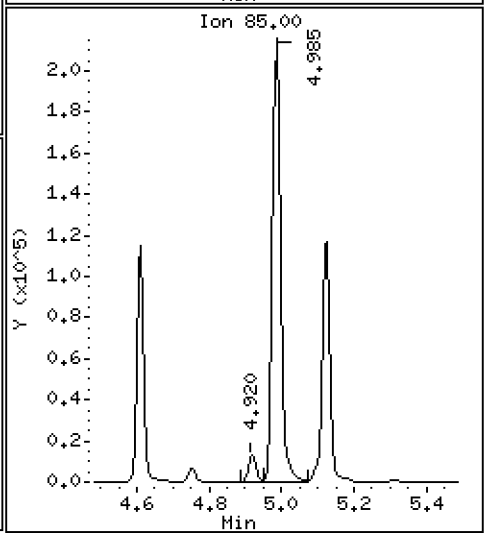


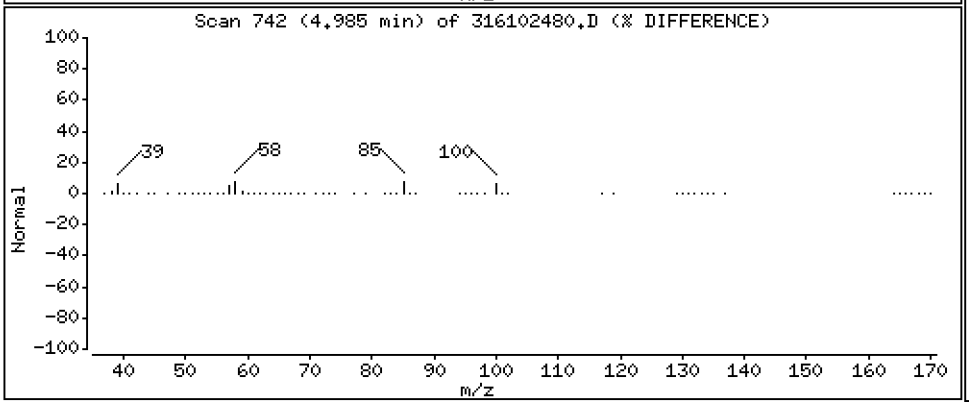












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 82

Date : 25-OCT-2016 09:17

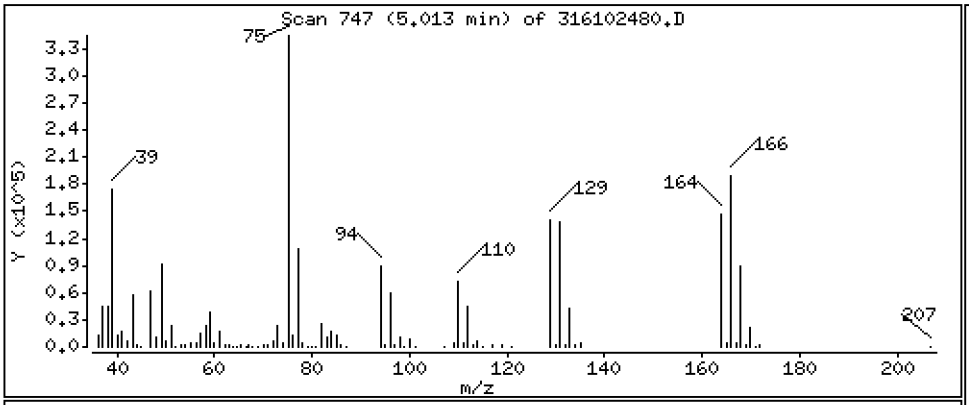
Client ID: Instrument: ms03.i

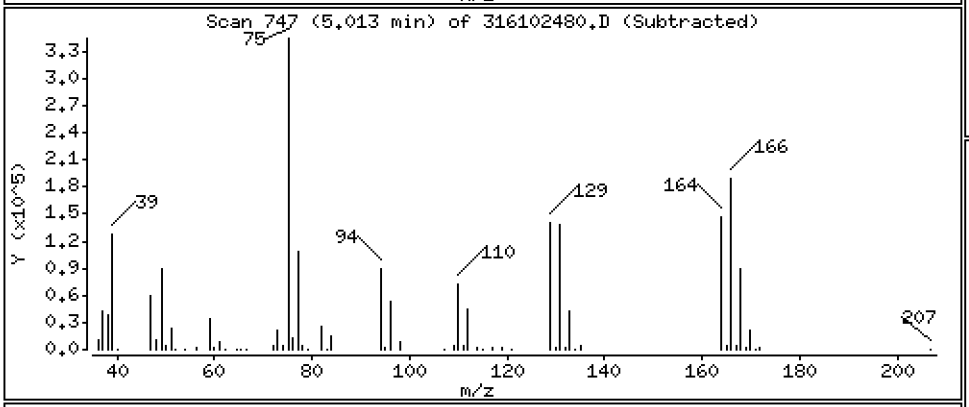
Sample Info: 1801;;1;2;4;;;

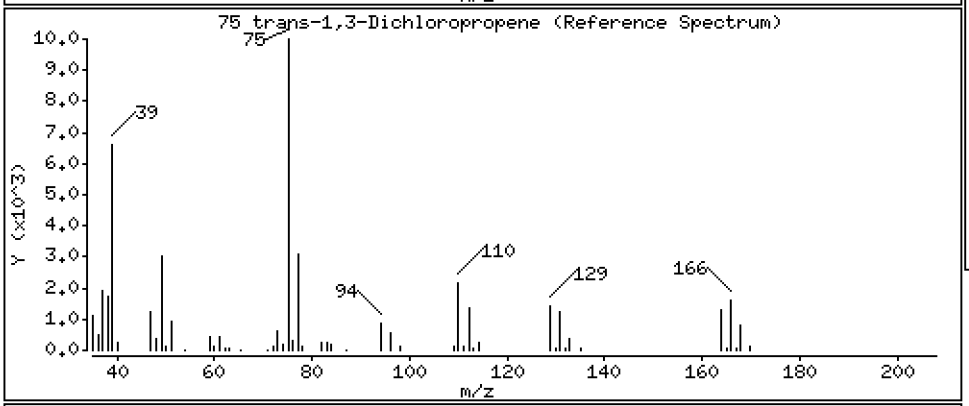
Purge Volume: 5.0 Operator: CJG

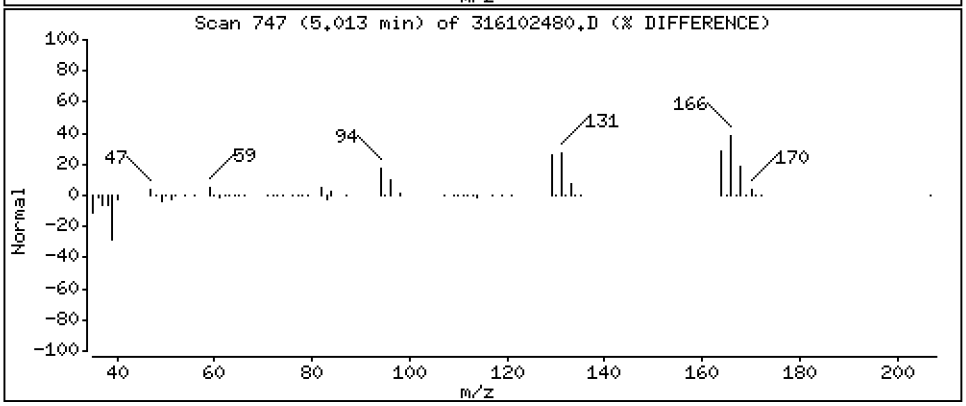
Column phase: DB-VRX Column diameter: 0.25

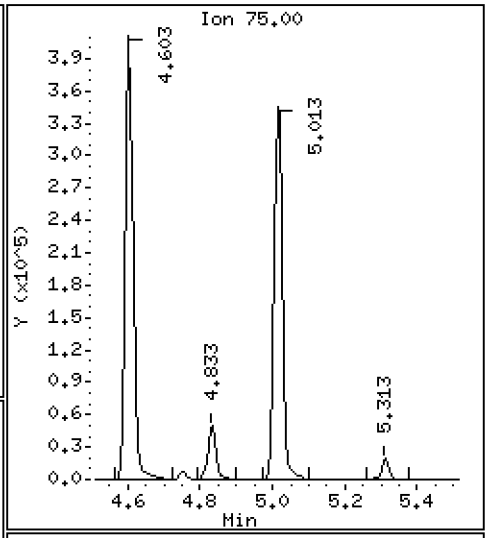
75 trans-1,3-Dichloropropene Concentration: 48.1721 ug/L

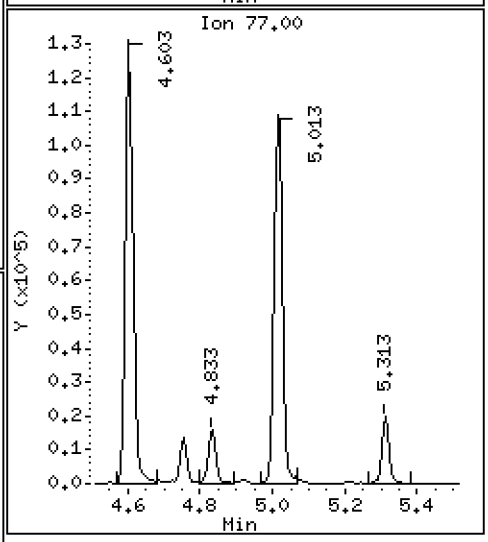












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 83

Date : 25-OCT-2016 09:17

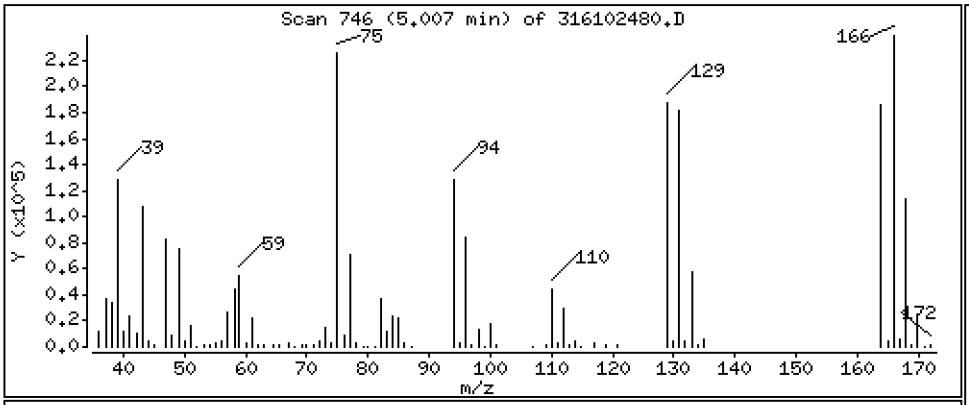
Client ID: Instrument: ms03.i

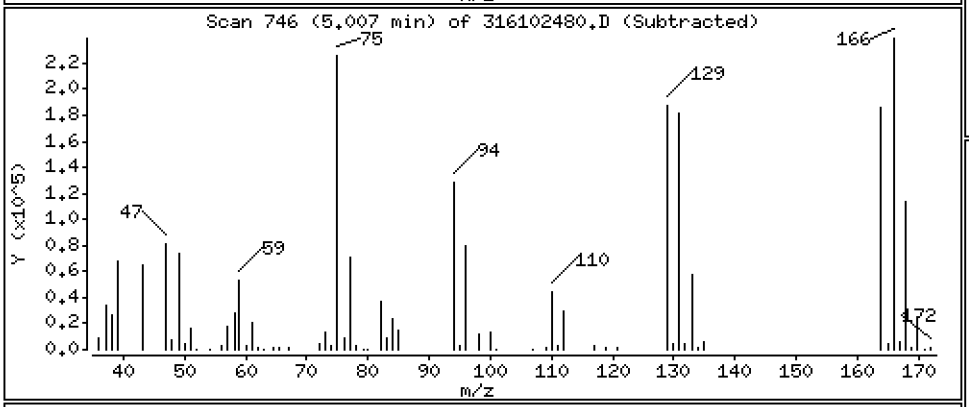
Sample Info: 1801;;1;2;4;;;

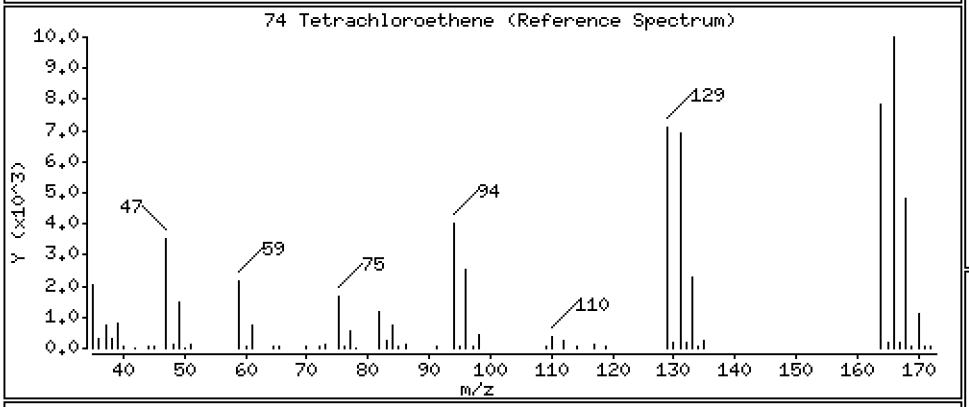
Purge Volume: 5.0 Operator: CJG

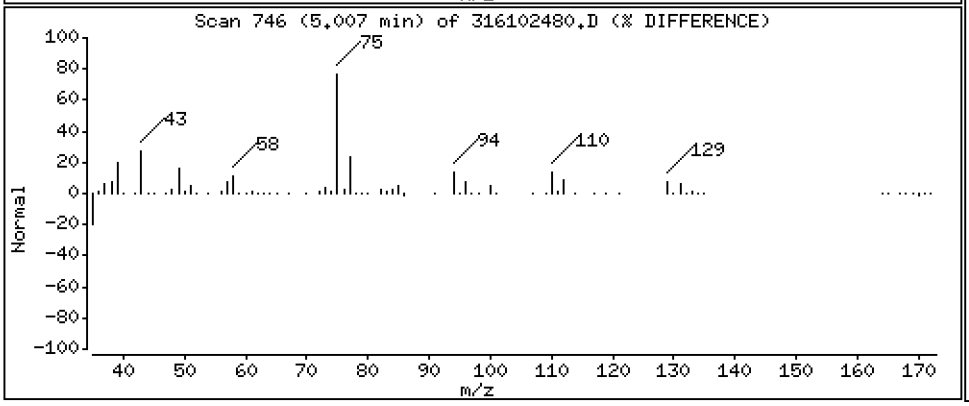
Column phase: DB-VRX Column diameter: 0.25

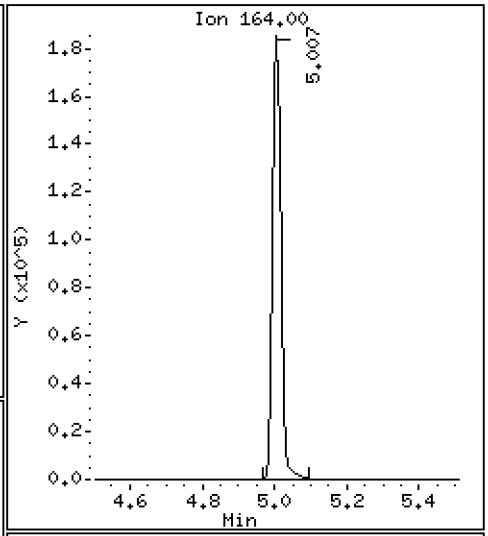
74 Tetrachloroethene Concentration: 52.1798 ug/L

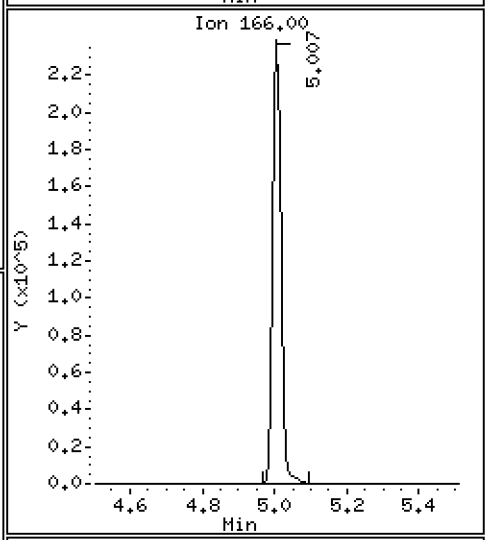


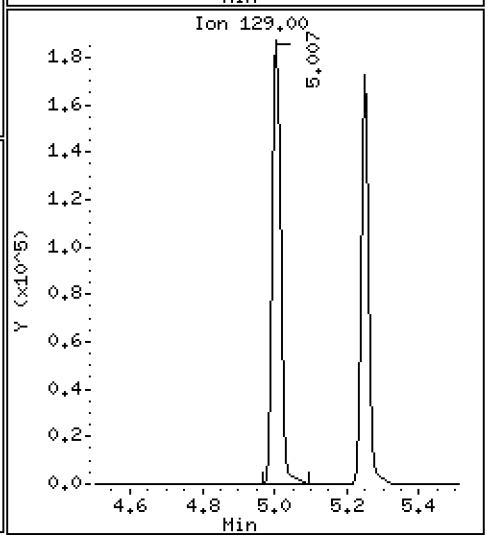












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 84

Date : 25-OCT-2016 09:17

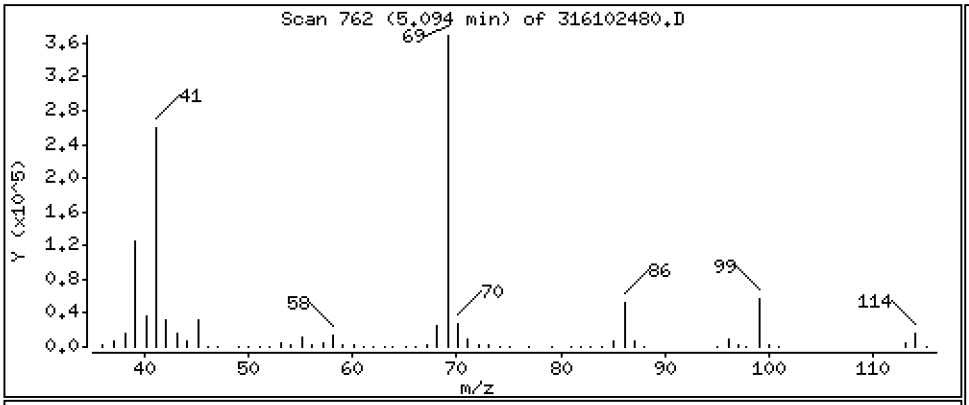
Client ID: Instrument: ms03.i

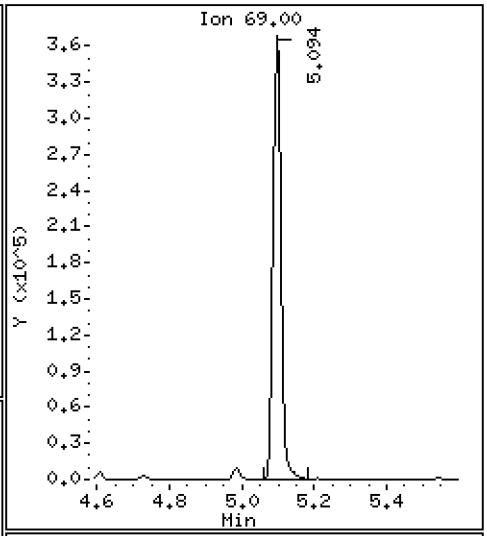
Sample Info: 1801;;1;2;4;;;

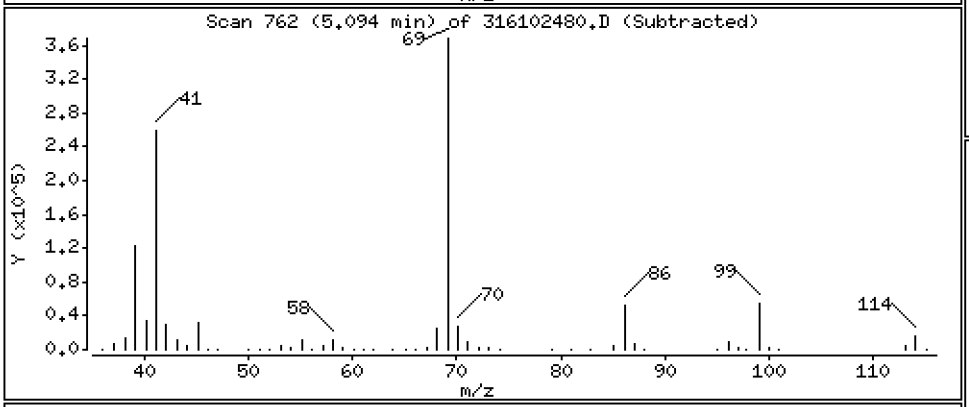
Purge Volume: 5.0 Operator: CJG

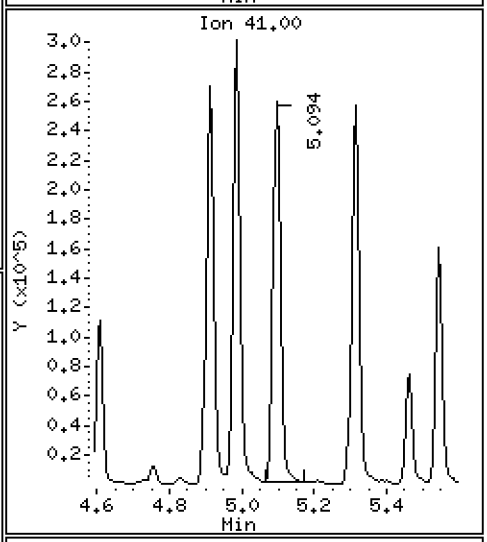
Column phase: DB-VRX Column diameter: 0.25

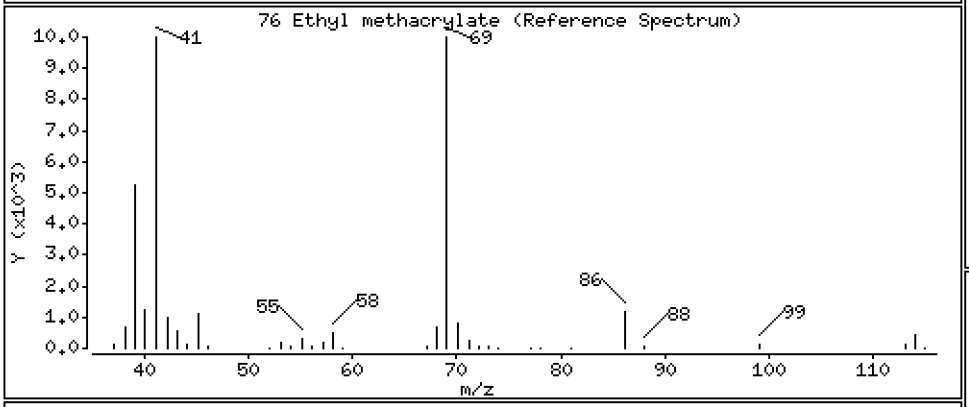
76 Ethyl methacrylate Concentration: 52.6737 ug/L

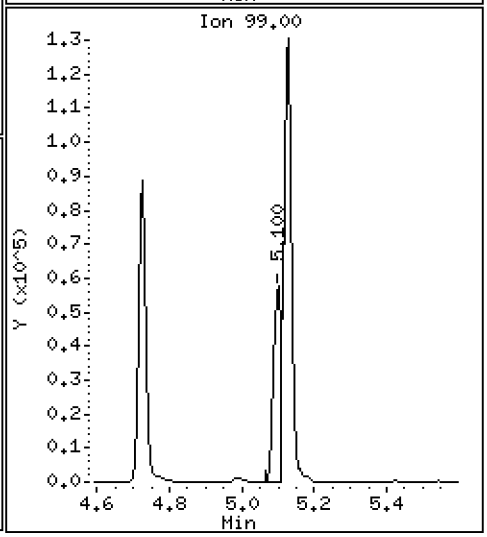


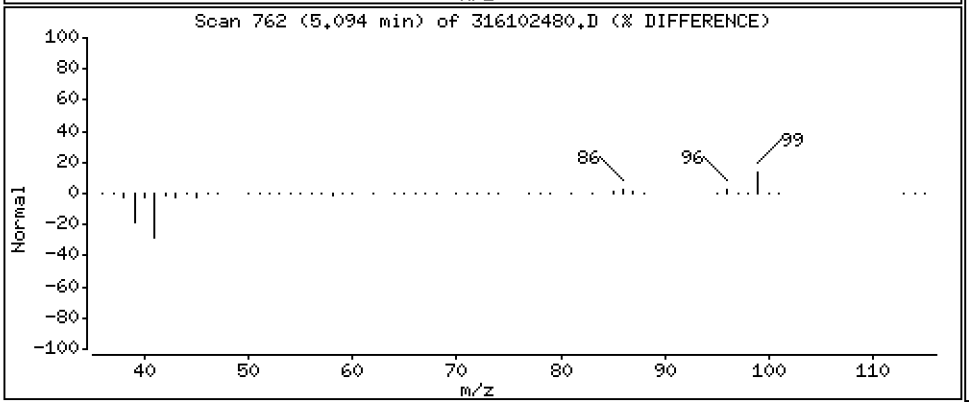












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 85

Date : 25-OCT-2016 09:17

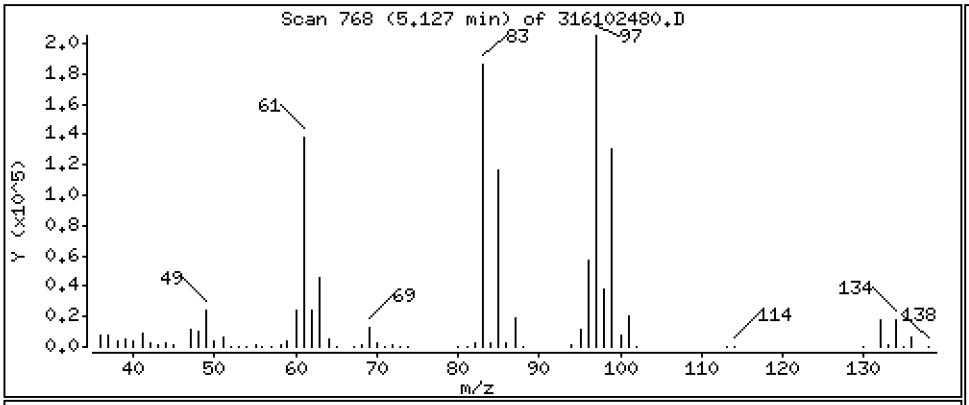
Client ID: Instrument: ms03.i

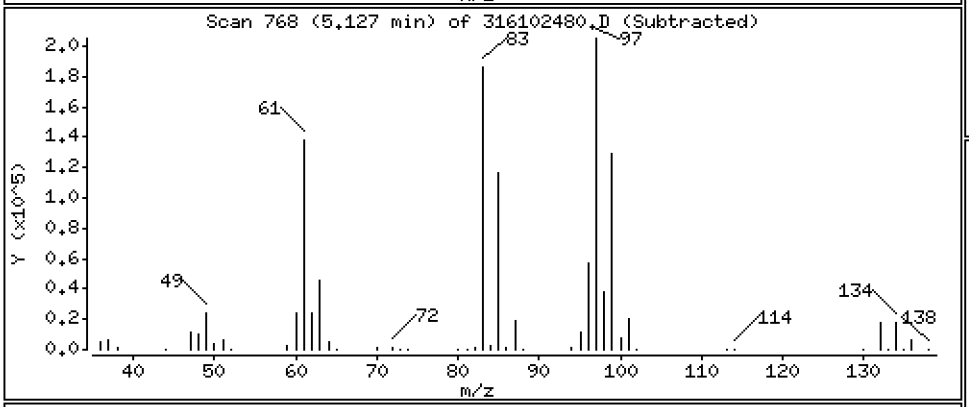
Sample Info: 1801;;1;2;4;;;

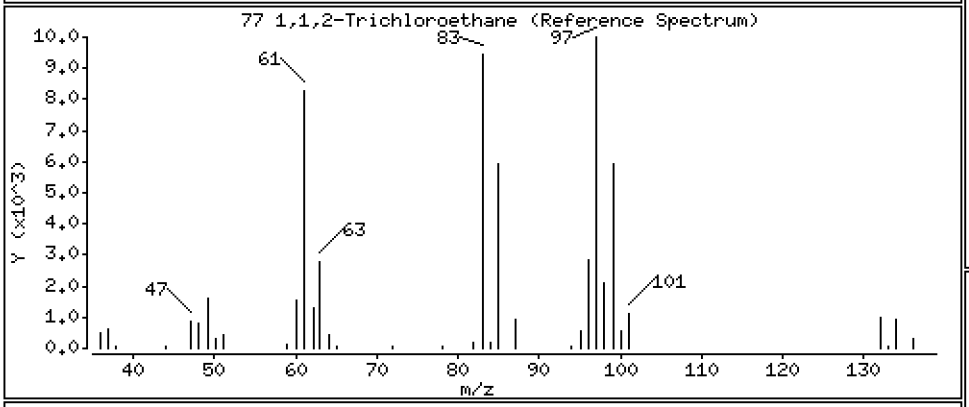
Purge Volume: 5.0 Operator: CJG

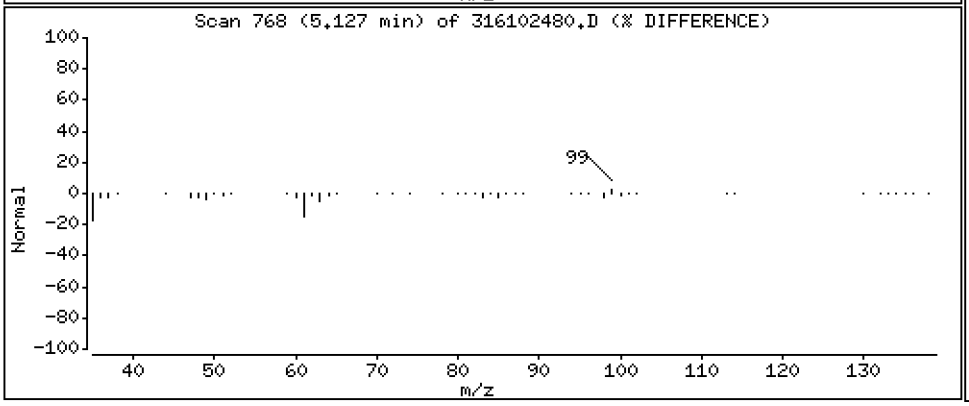
Column phase: DB-VRX Column diameter: 0.25

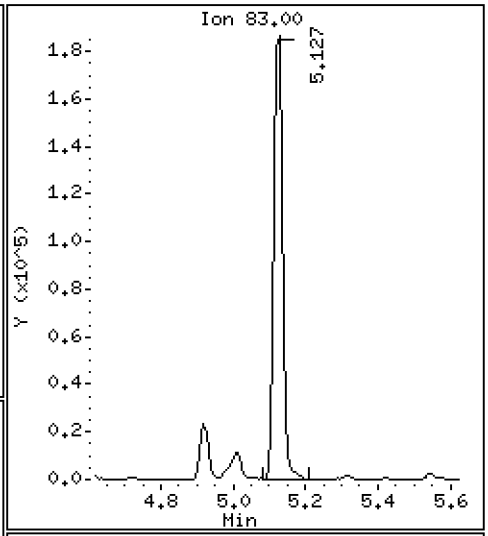
77 1,1,2-Trichloroethane Concentration: 45.7039 ug/L

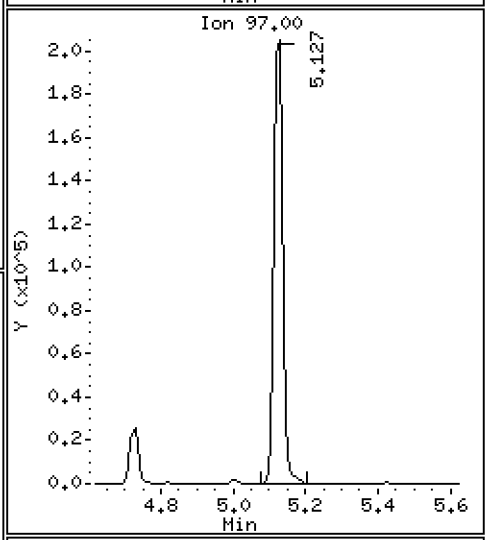


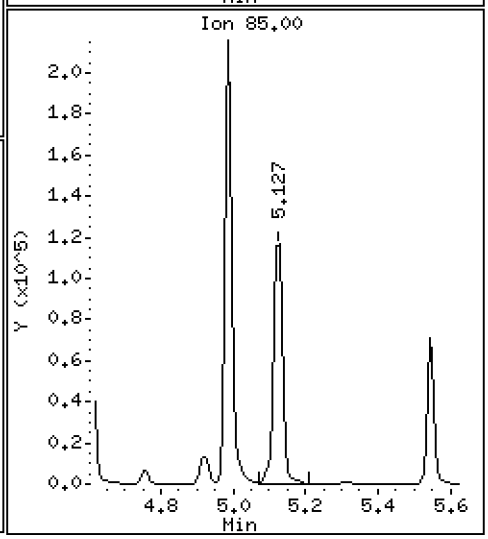












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 86

Date : 25-OCT-2016 09:17

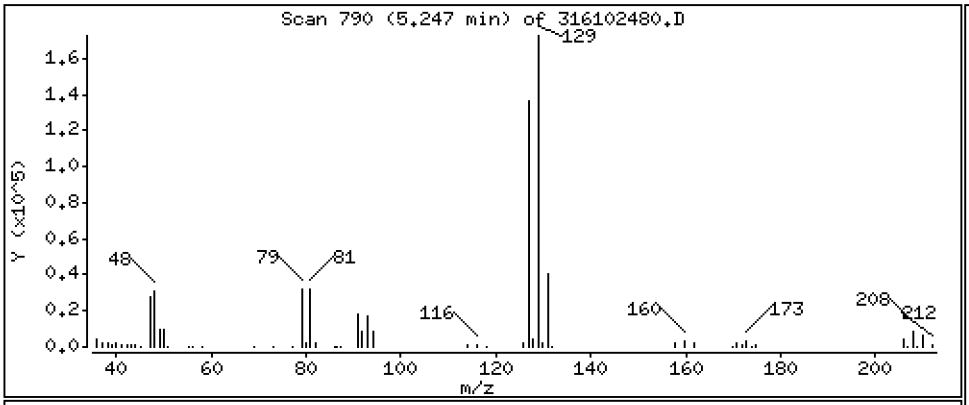
Client ID: Instrument: ms03.i

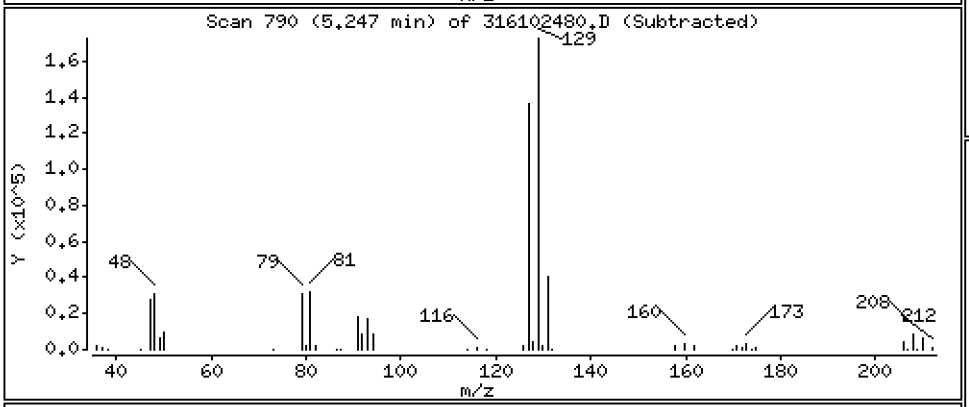
Sample Info: 1801;;1;2;4;;;

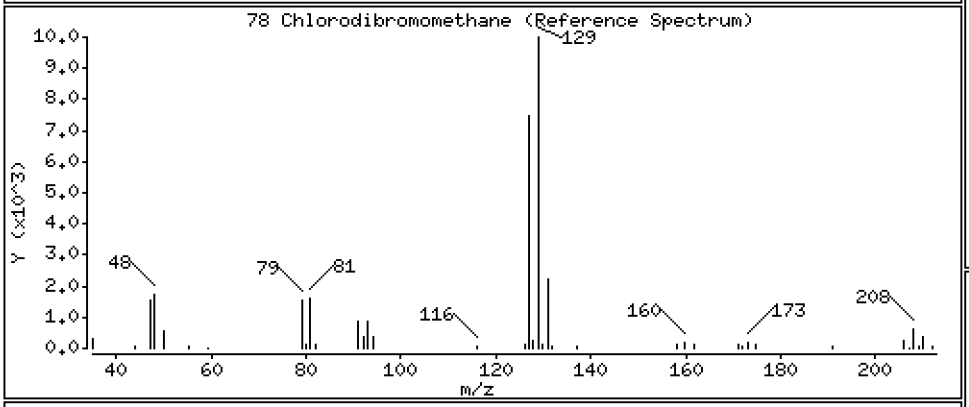
Purge Volume: 5.0 Operator: CJG

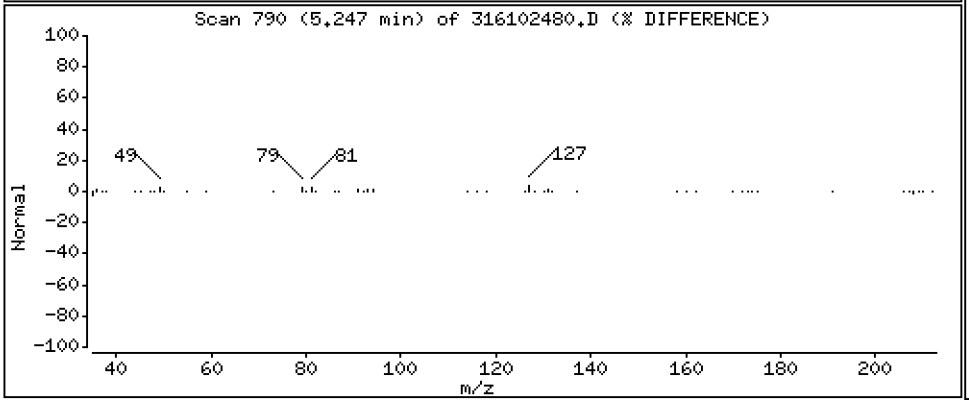
Column phase: DB-VRX Column diameter: 0.25

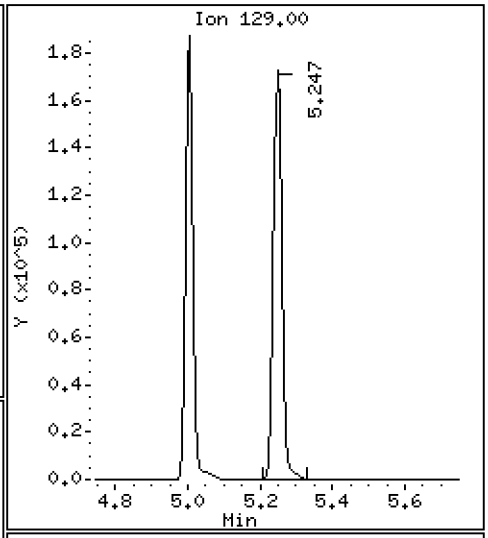
78 Chlorodibromomethane Concentration: 47.1613 ug/L

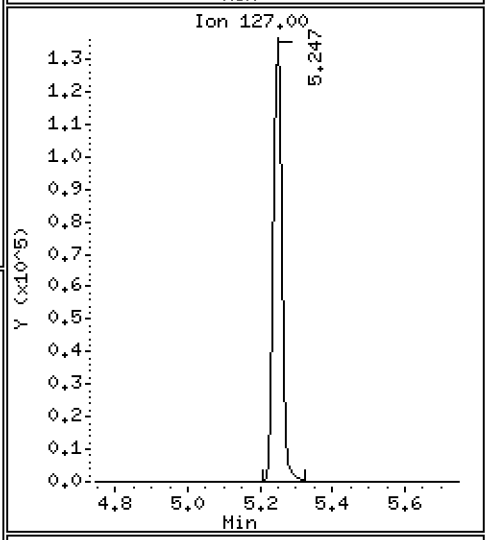


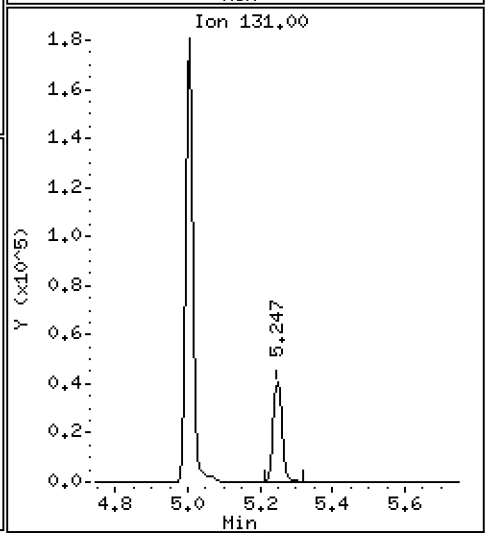












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 87

Date : 25-OCT-2016 09:17

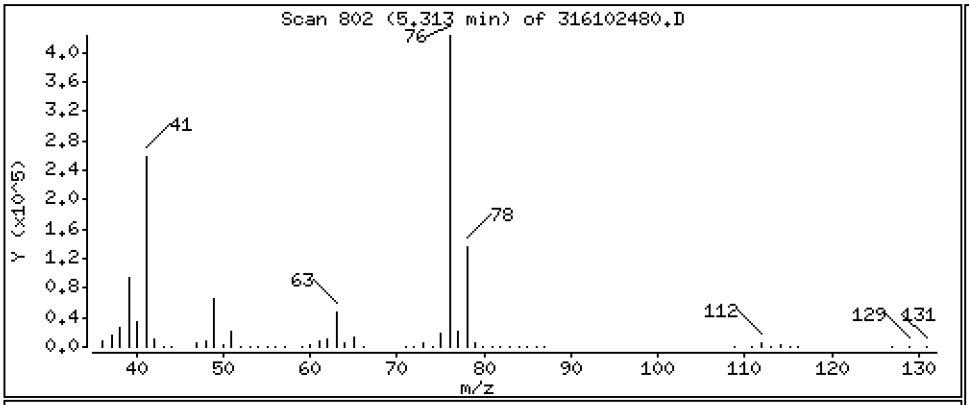
Client ID: Instrument: ms03.i

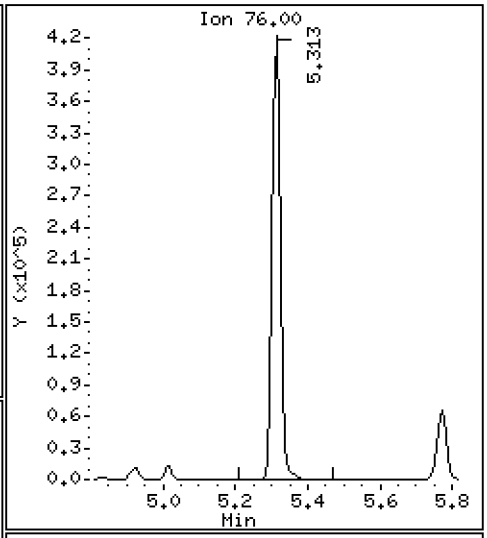
Sample Info: 1801;;1;2;4;;;

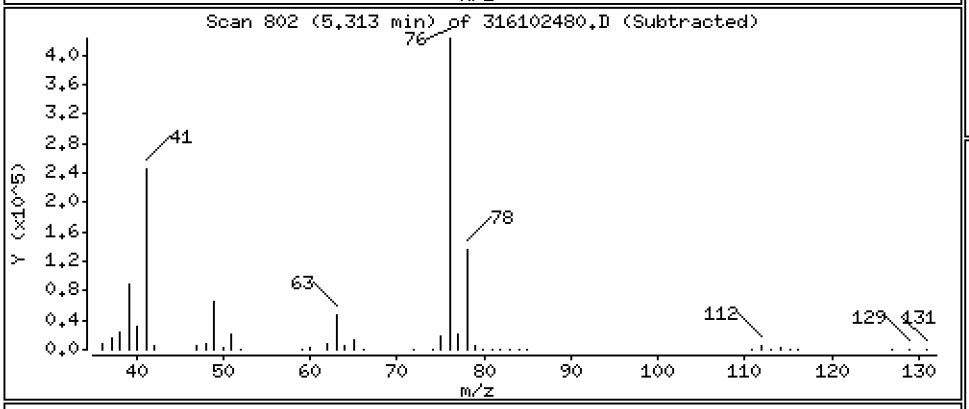
Purge Volume: 5.0 Operator: CJG

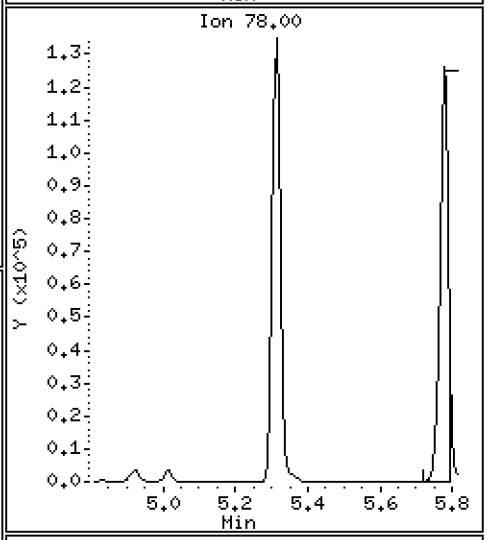
Column phase: DB-VRX Column diameter: 0.25

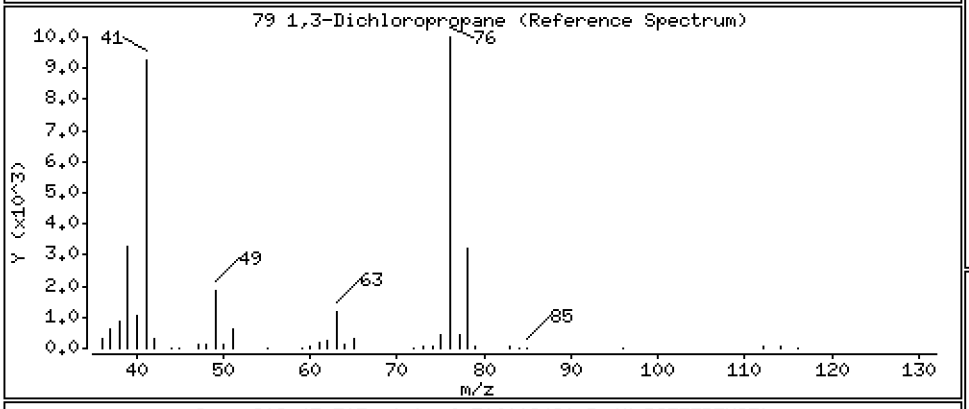
79 1,3-Dichloropropane Concentration: 45.5083 ug/L

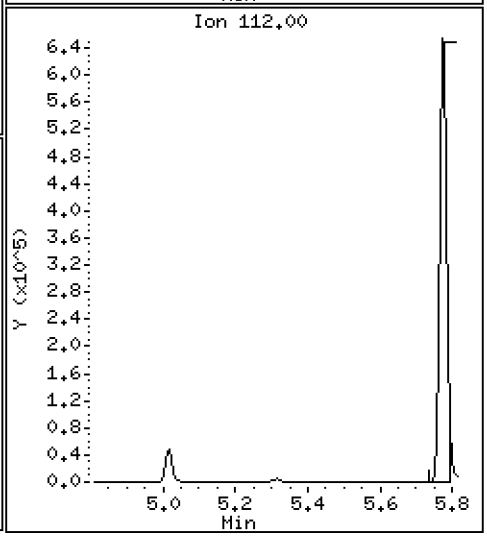


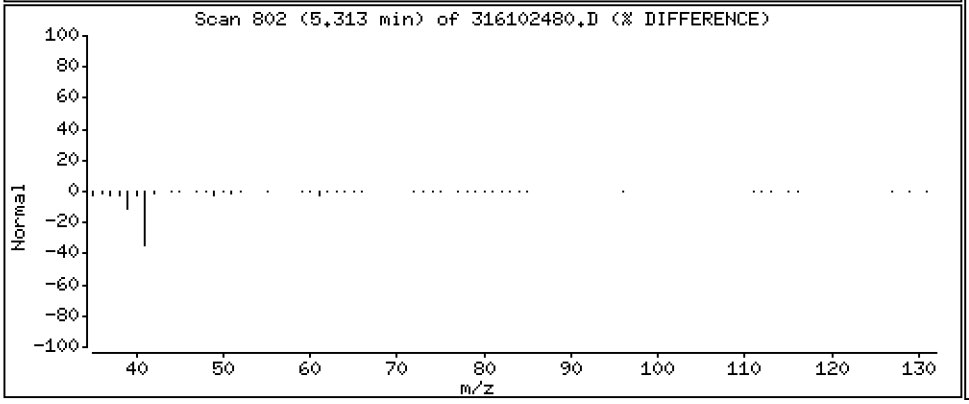












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 88

Date : 25-OCT-2016 09:17

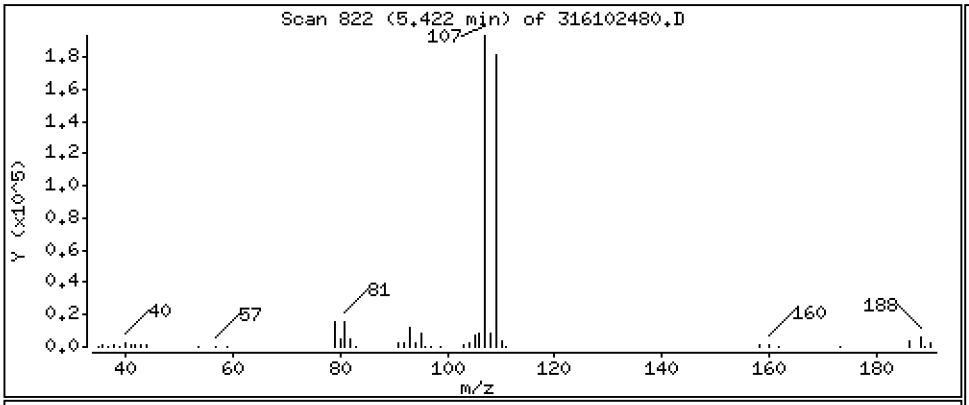
Client ID: Instrument: ms03.i

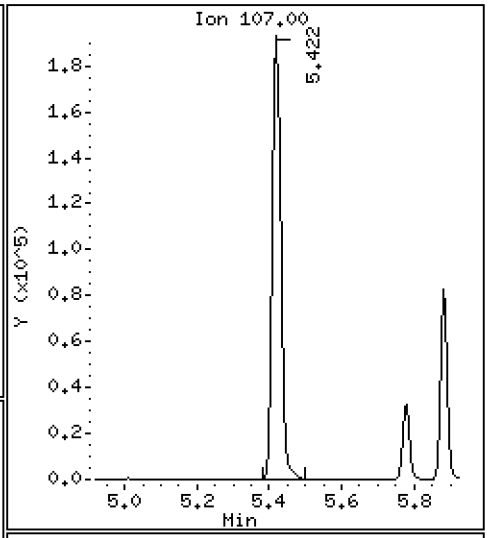
Sample Info: 1801;;1;2;4;;;

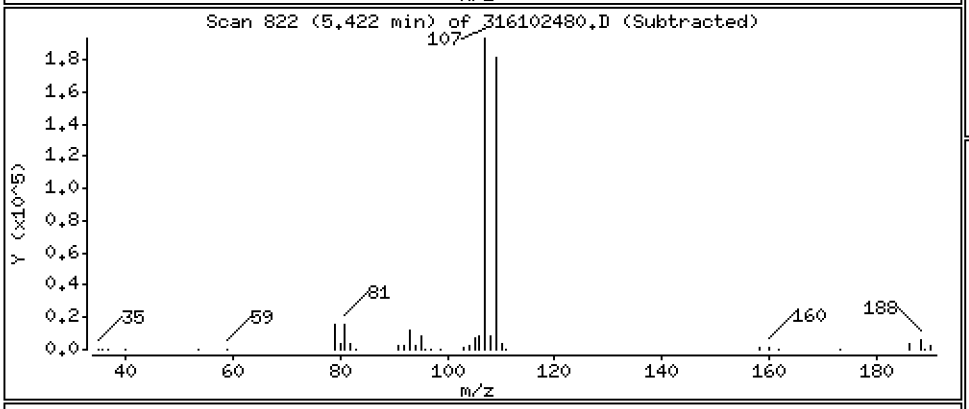
Purge Volume: 5.0 Operator: CJG

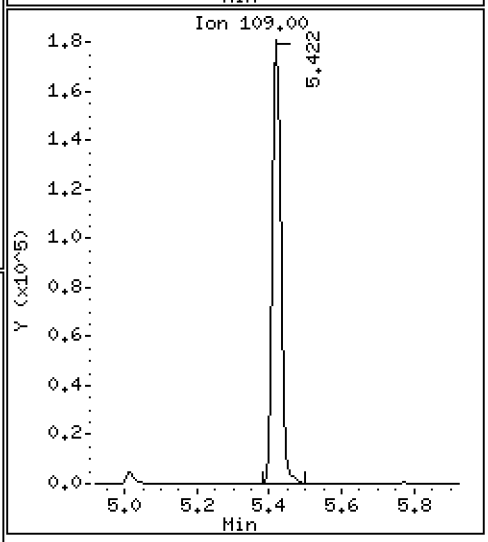
Column phase: DB-VRX Column diameter: 0.25

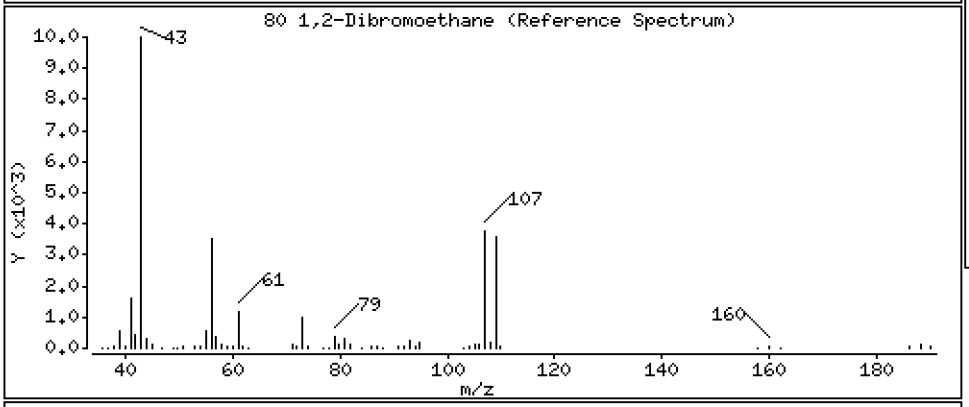
80 1,2-Dibromoethane Concentration: 46.8712 ug/L

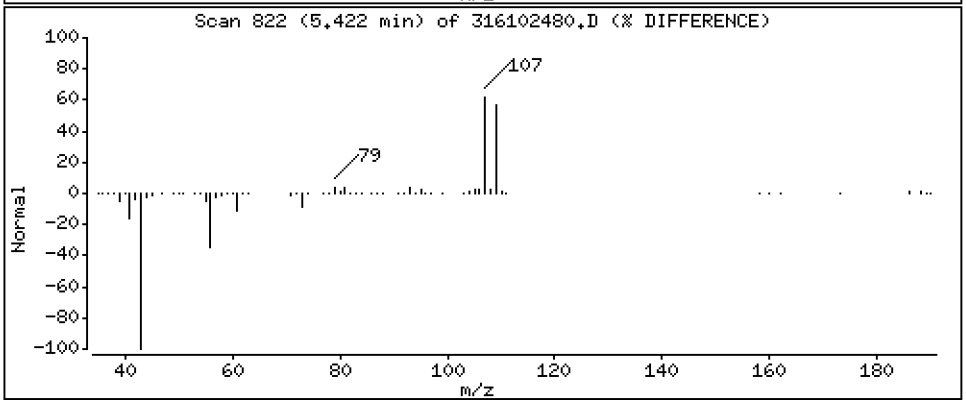












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 89

Date : 25-OCT-2016 09:17

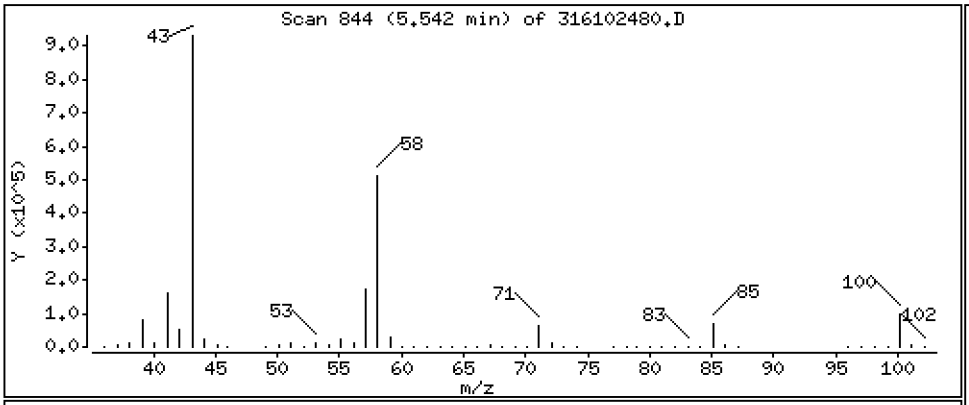
Client ID: Instrument: ms03.i

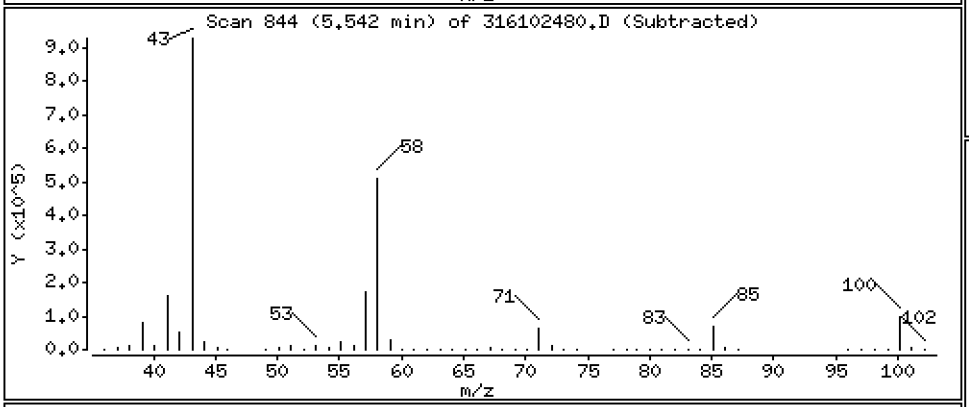
Sample Info: 1801;;1;2;4;;;

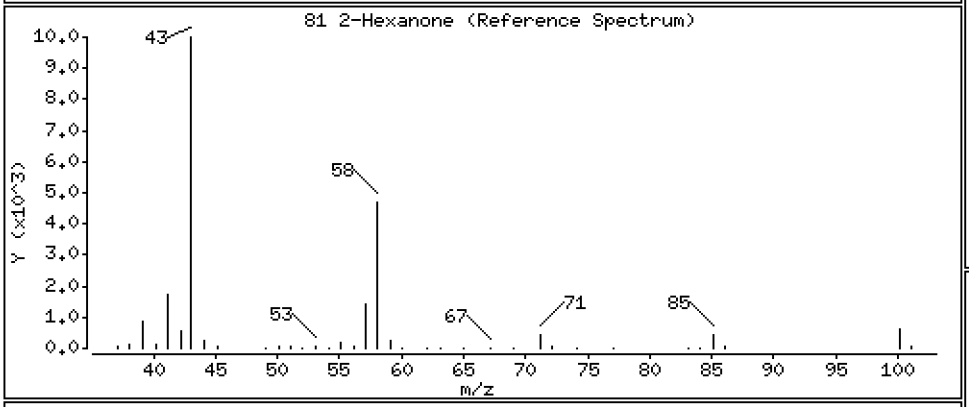
Purge Volume: 5.0 Operator: CJG

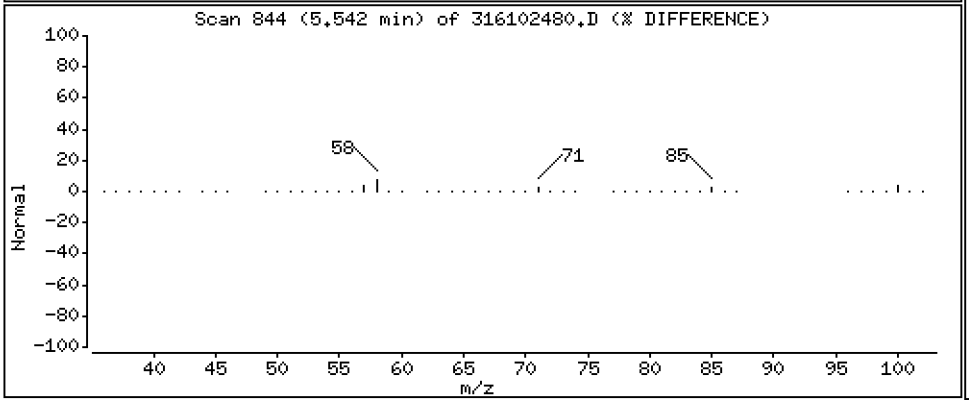
Column phase: DB-VRX Column diameter: 0.25

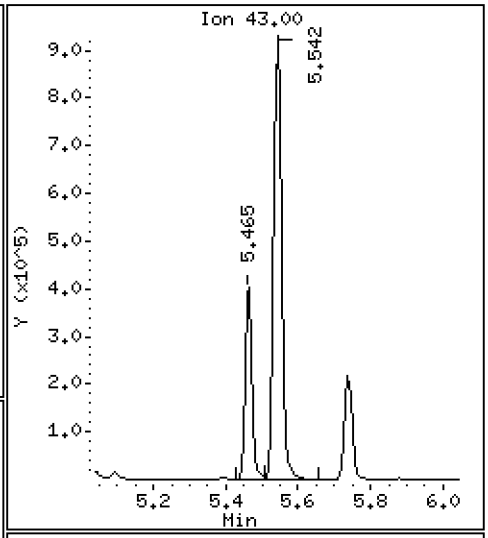
81 2-Hexanone Concentration: 276.917 ug/L

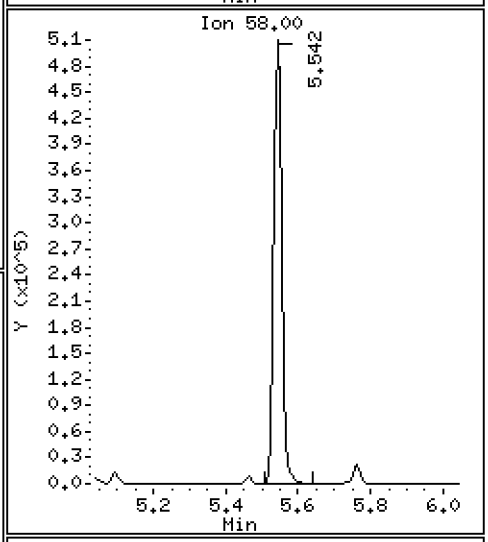


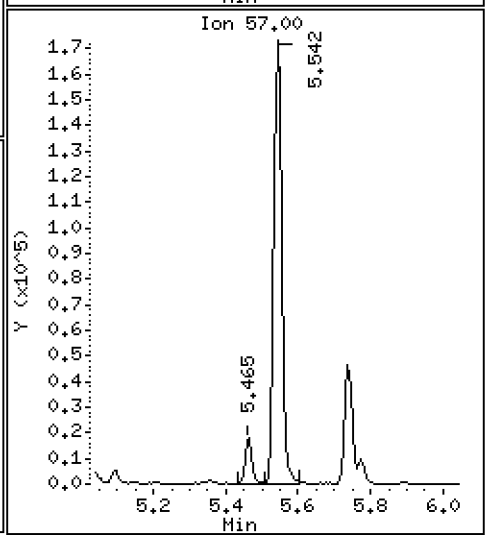












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 90

Date : 25-OCT-2016 09:17

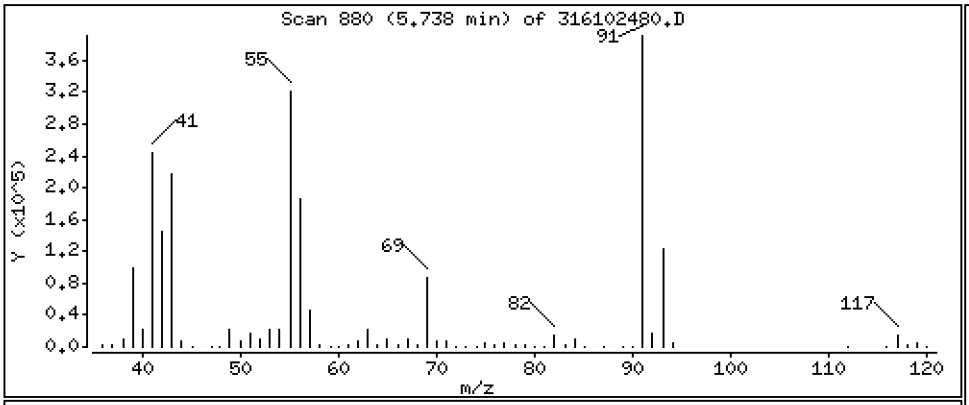
Client ID: Instrument: ms03.i

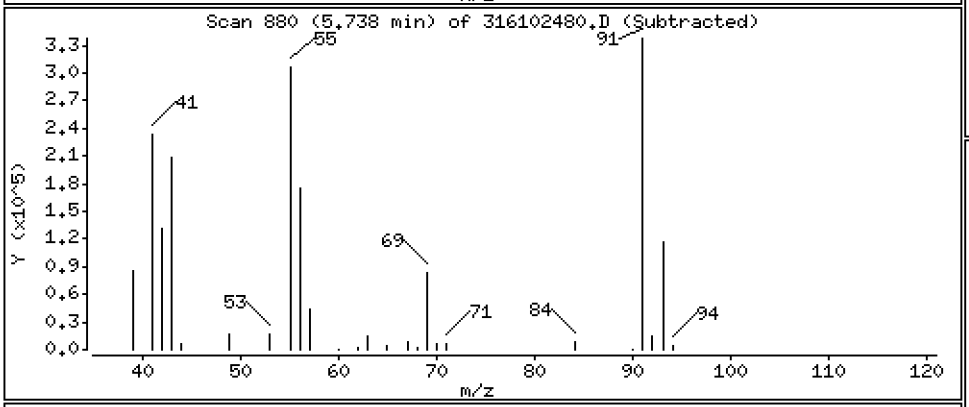
Sample Info: 1801;;1;2;4;;;

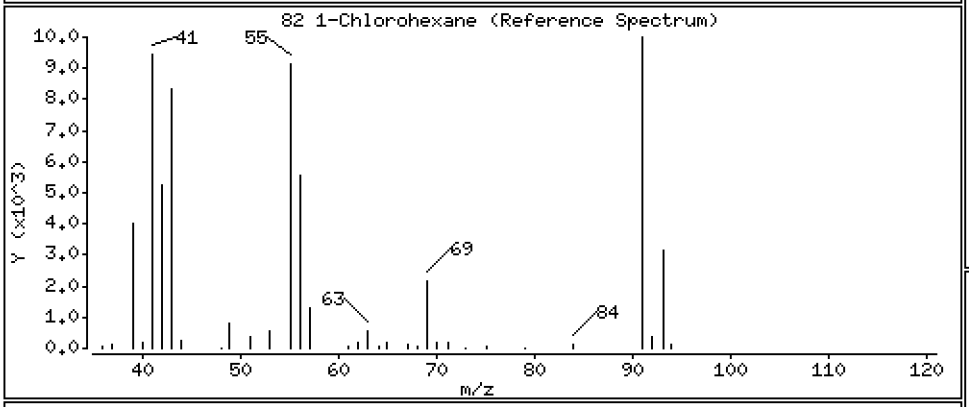
Purge Volume: 5.0 Operator: CJG

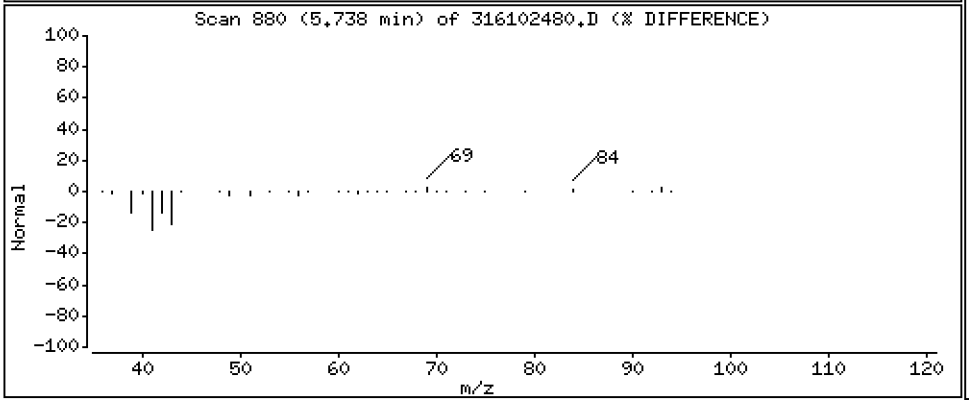
Column phase: DB-VRX Column diameter: 0.25

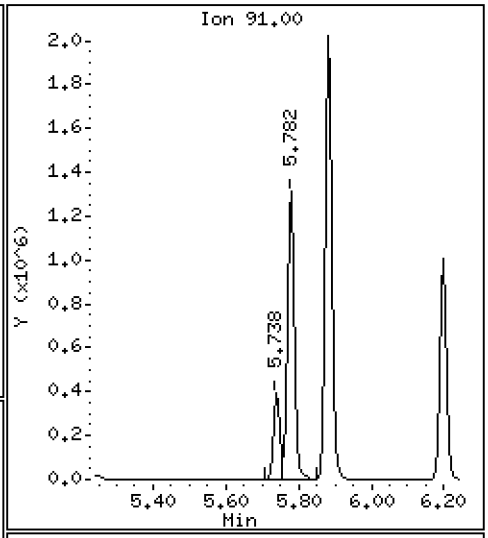
82 1-Chlorohexane Concentration: 47.0370 ug/L

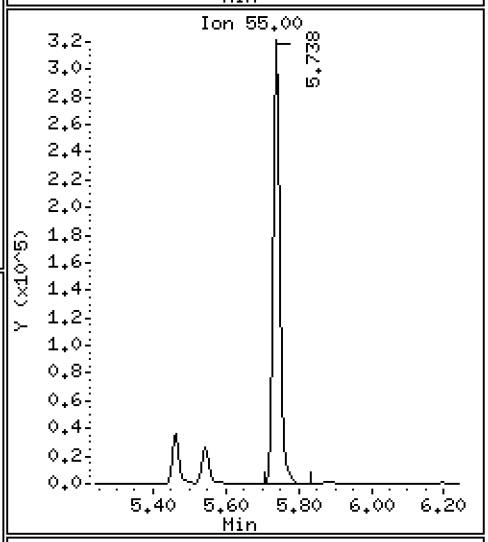


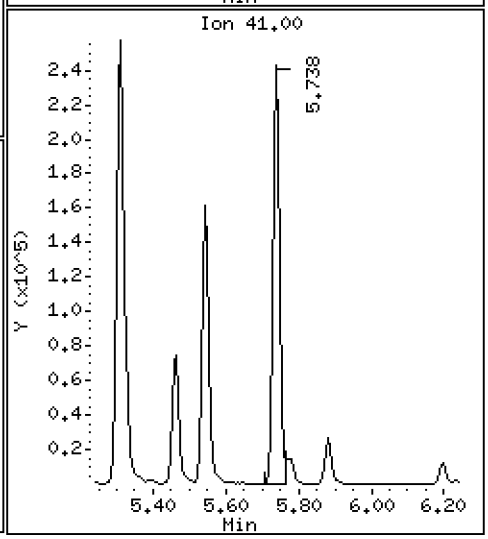












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 91

Date : 25-OCT-2016 09:17

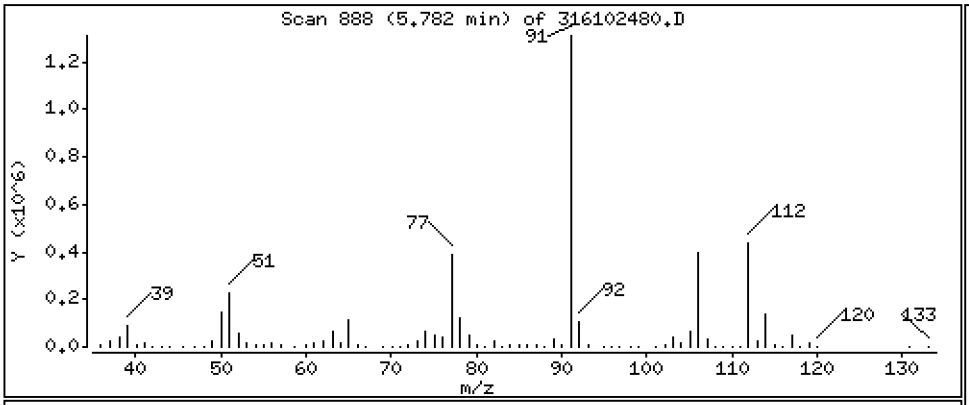
Client ID: Instrument: ms03.i

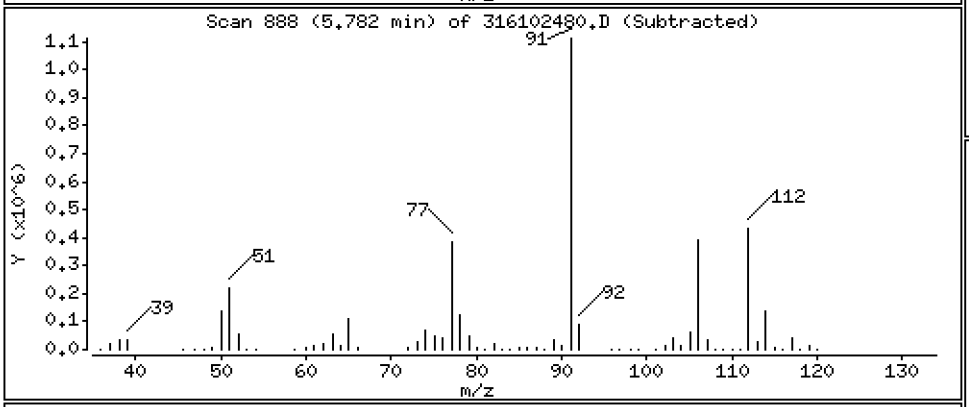
Sample Info: 1801;;1;2;4;;;

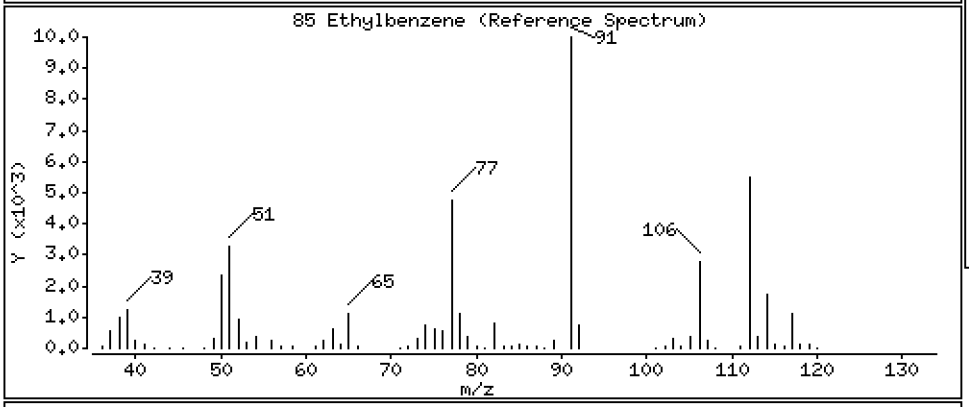
Purge Volume: 5.0 Operator: CJG

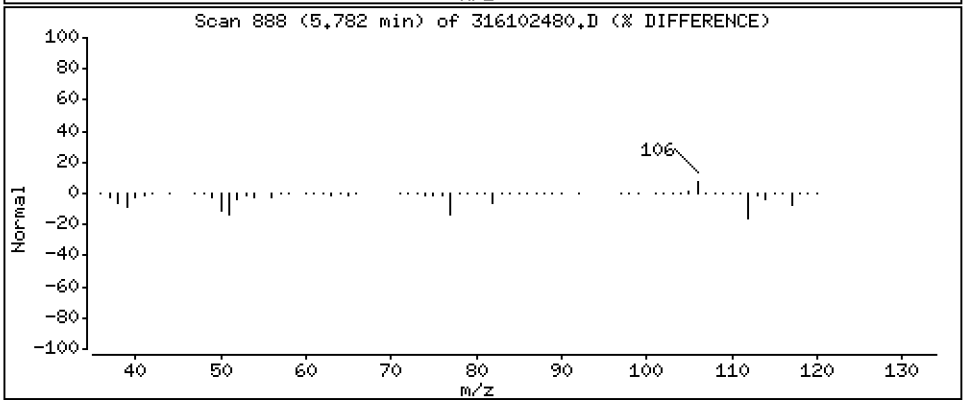
Column phase: DB-VRX Column diameter: 0.25

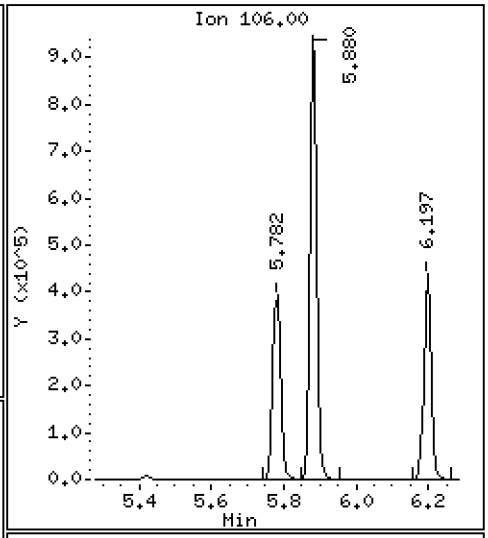
85 Ethylbenzene Concentration: 44.9741 ug/L

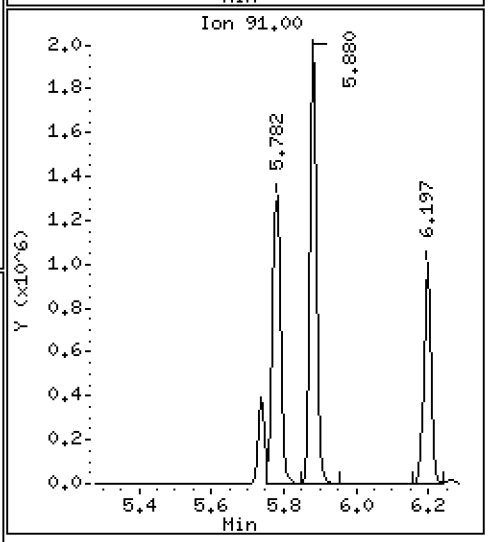












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 92

Date : 25-OCT-2016 09:17

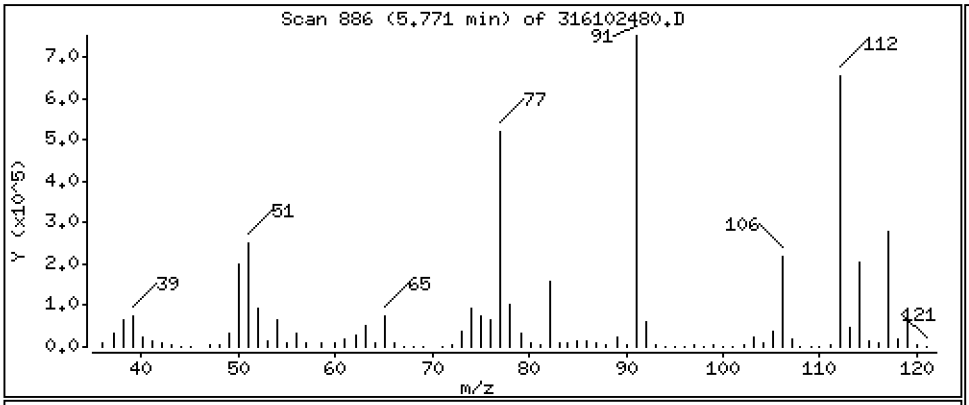
Client ID: Instrument: ms03.i

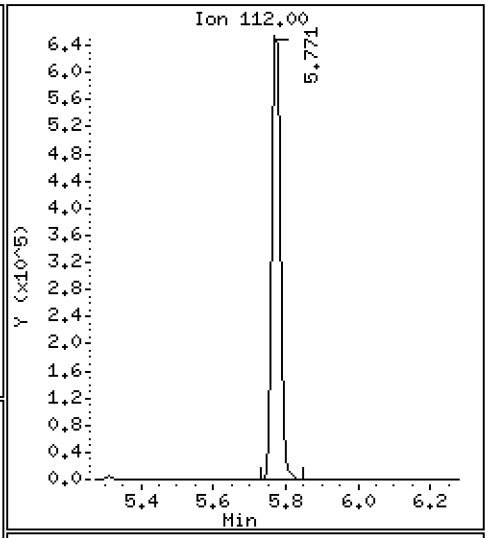
Sample Info: 1801;;1;2;4;;;

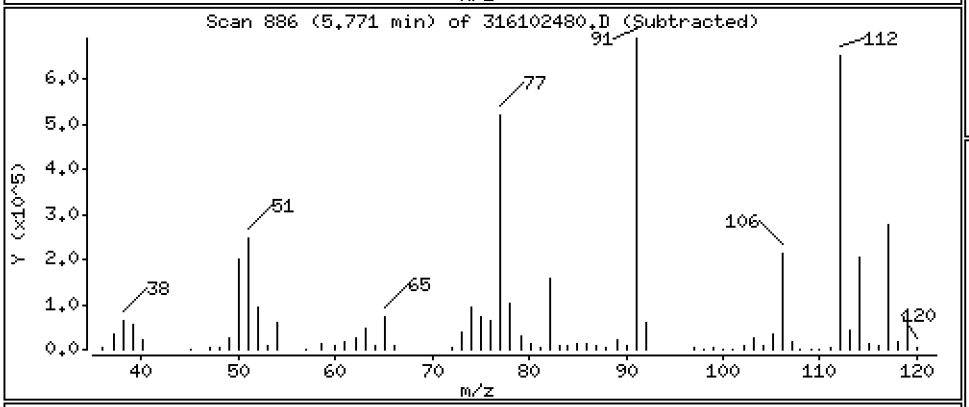
Purge Volume: 5.0 Operator: CJG

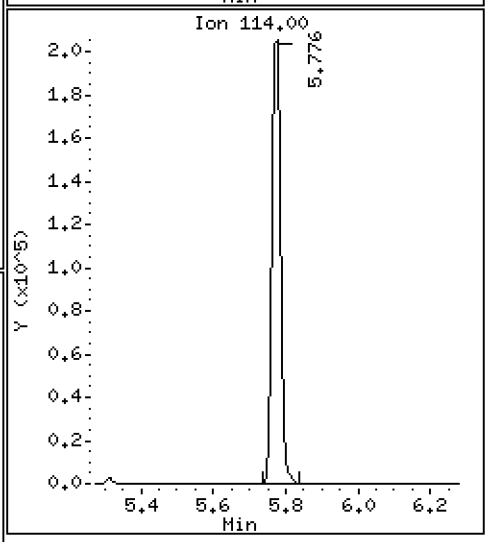
Column phase: DB-VRX Column diameter: 0.25

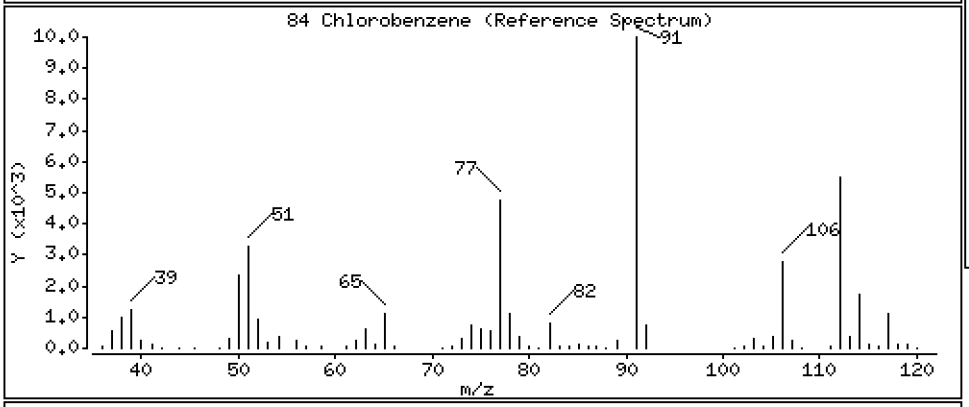
84 Chlorobenzene Concentration: 43.2863 ug/L

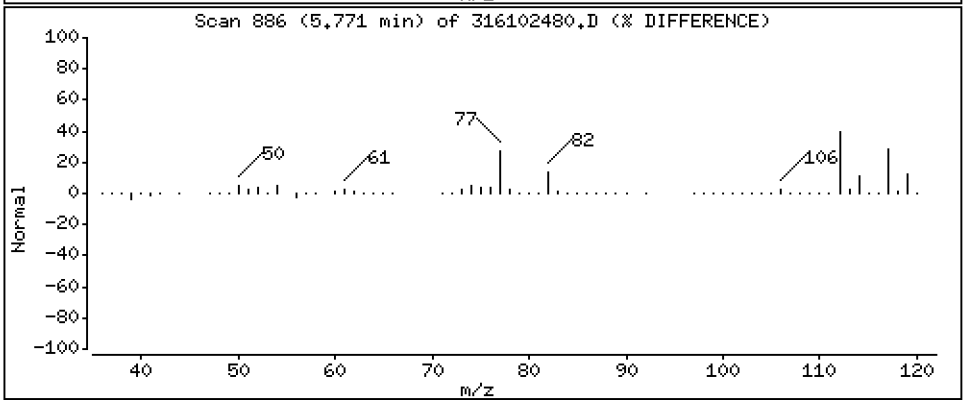












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 93

Date : 25-OCT-2016 09:17

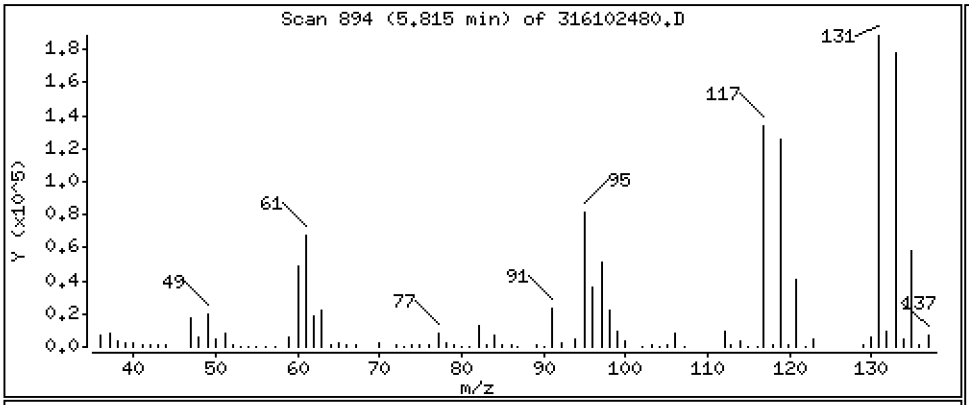
Client ID: Instrument: ms03.i

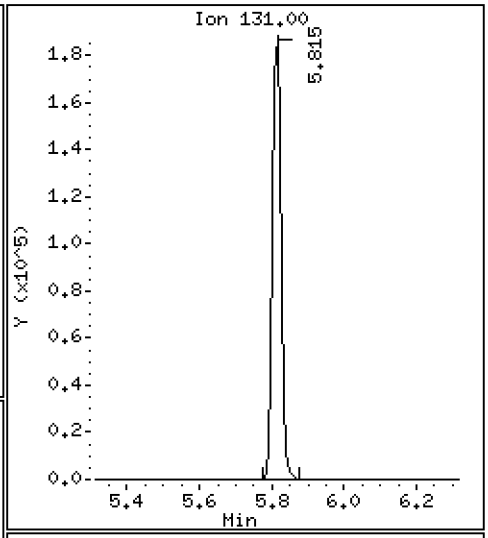
Sample Info: 1801;;1;2;4;;;

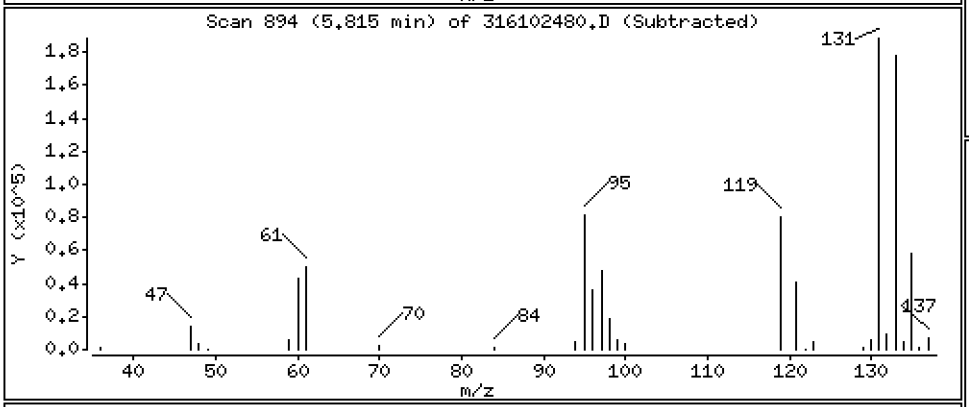
Purge Volume: 5.0 Operator: CJG

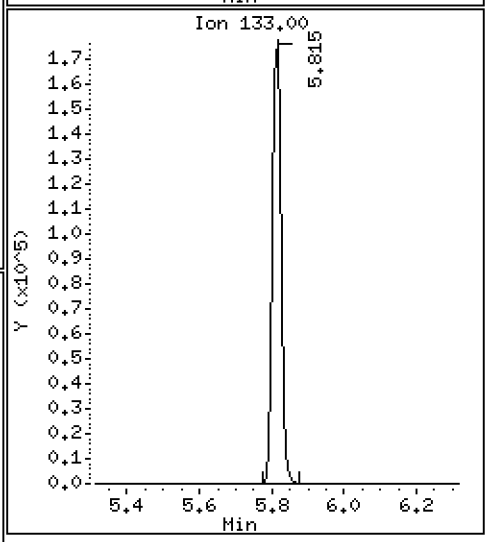
Column phase: DB-VRX Column diameter: 0.25

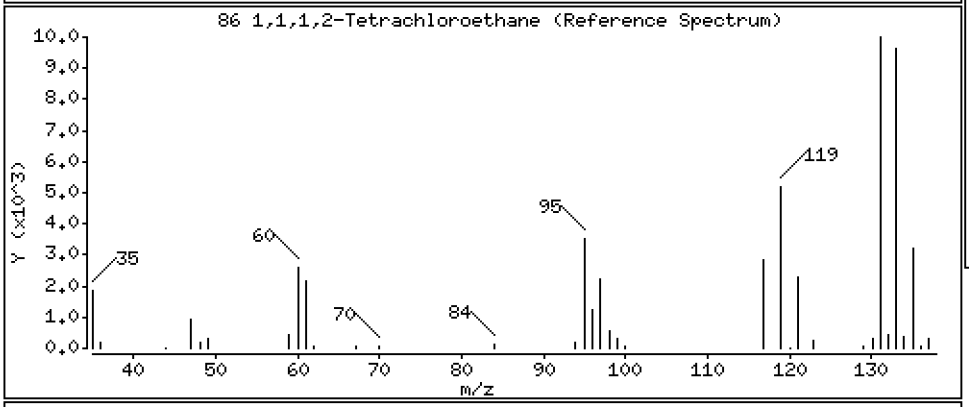
86 1,1,1,2-Tetrachloroethane Concentration: 47.7705 ug/L

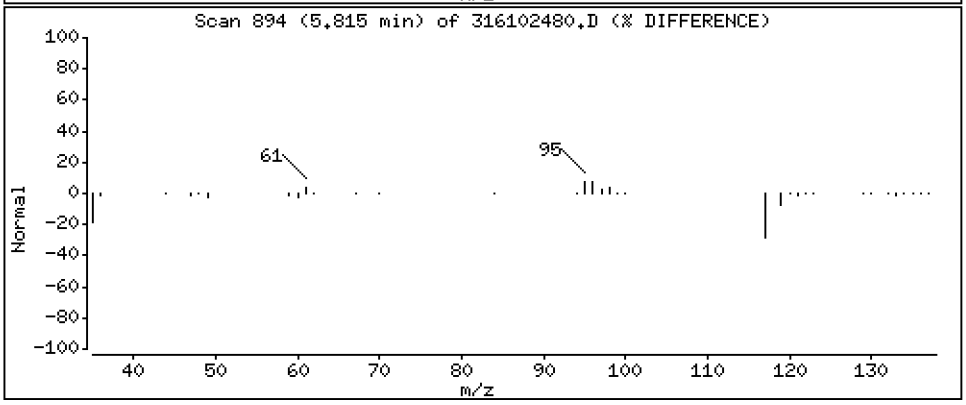












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 94

Date : 25-OCT-2016 09:17

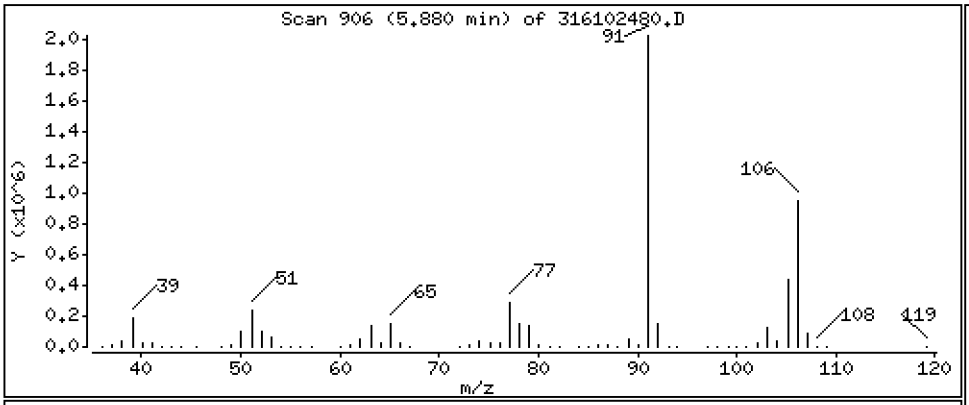
Client ID: Instrument: ms03.i

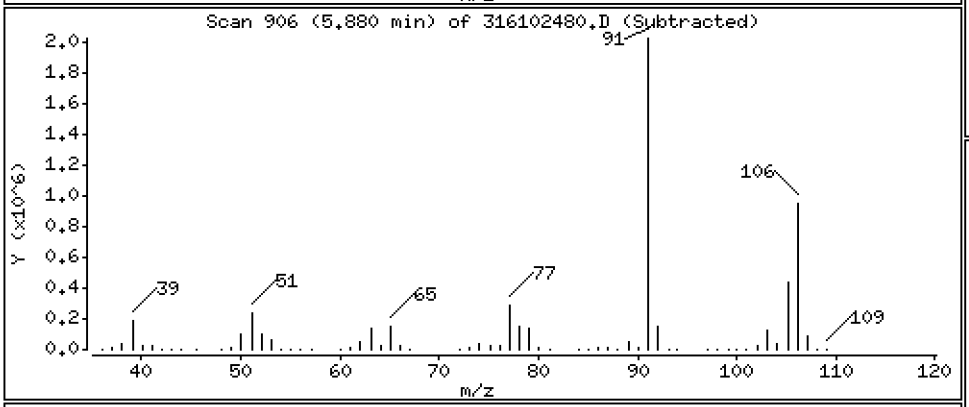
Sample Info: 1801;;1;2;4;;;

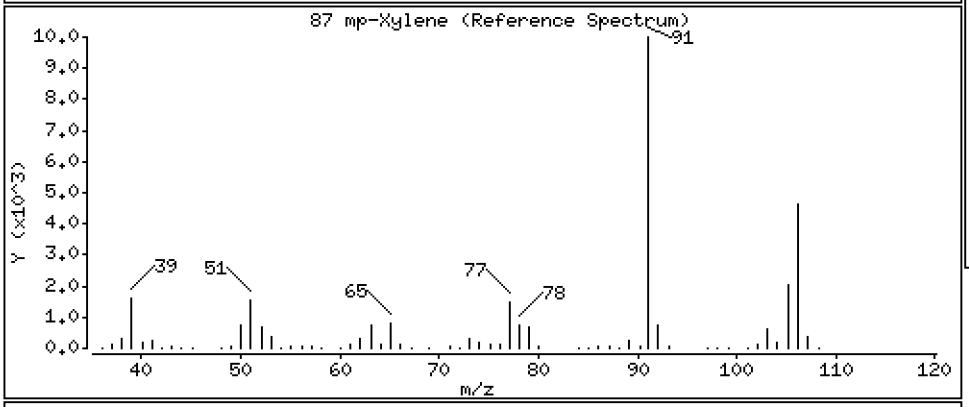
Purge Volume: 5.0 Operator: CJG

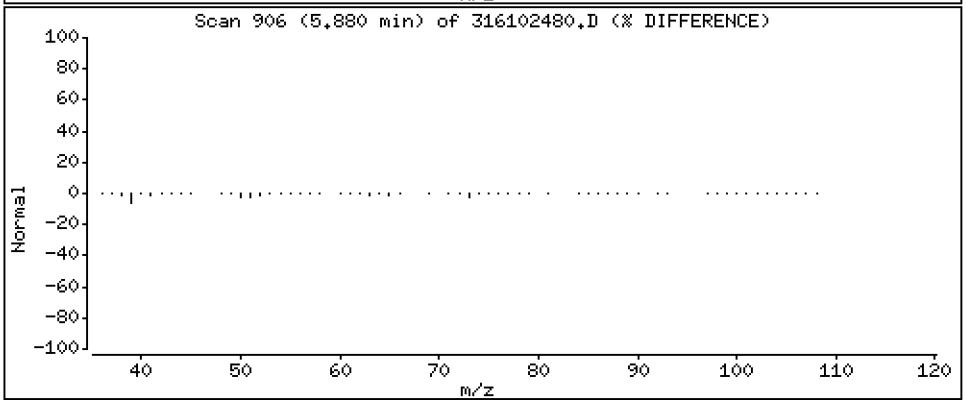
Column phase: DB-VRX Column diameter: 0.25

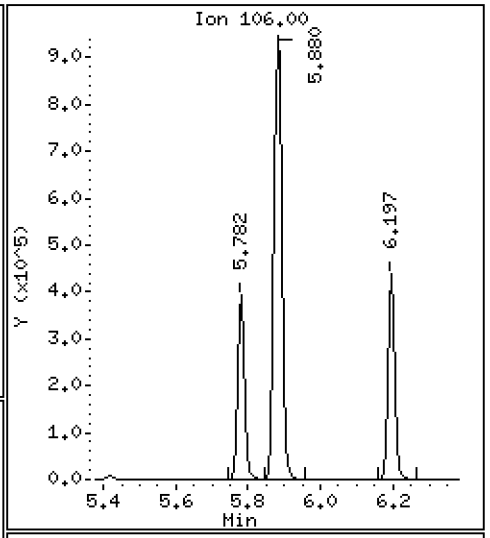
87 mp-Xylene Concentration: 91.6912 ug/L

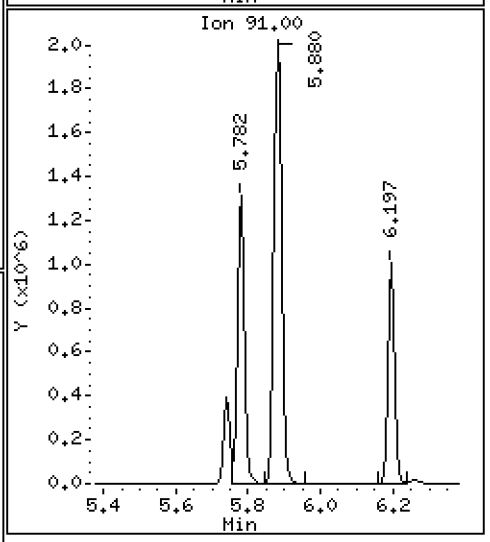












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 95

Date : 25-OCT-2016 09:17

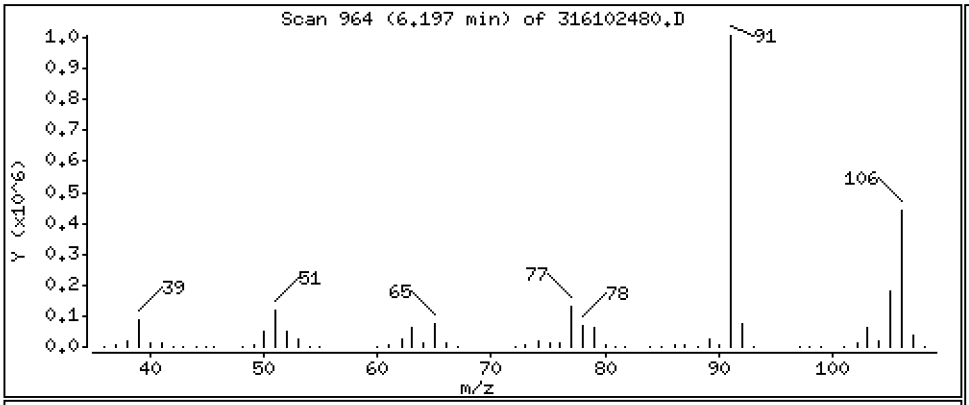
Client ID: Instrument: ms03.i

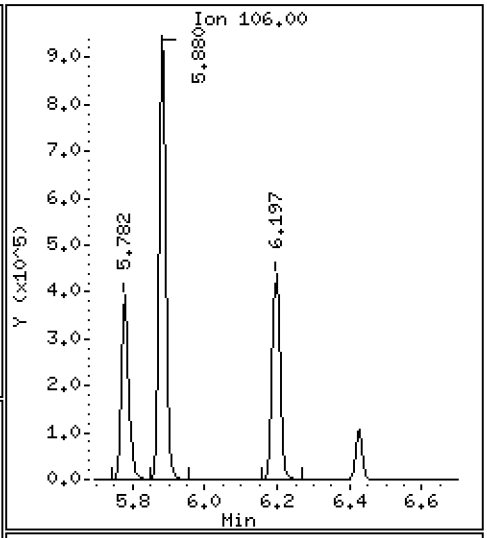
Sample Info: 1801;;1;2;4;;;

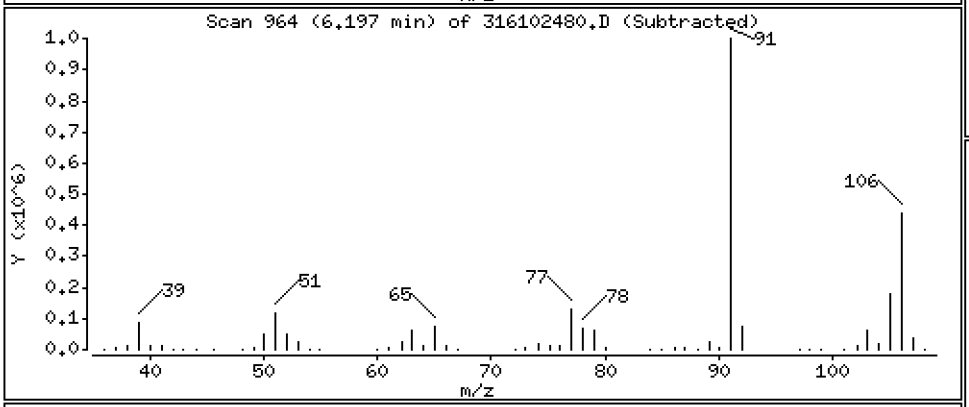
Purge Volume: 5.0 Operator: CJG

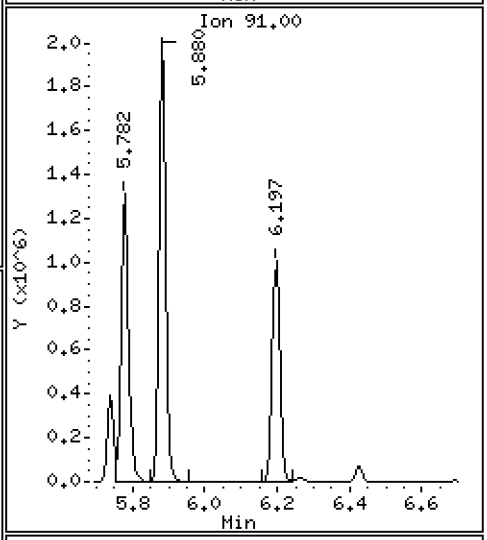
Column phase: DB-VRX Column diameter: 0.25

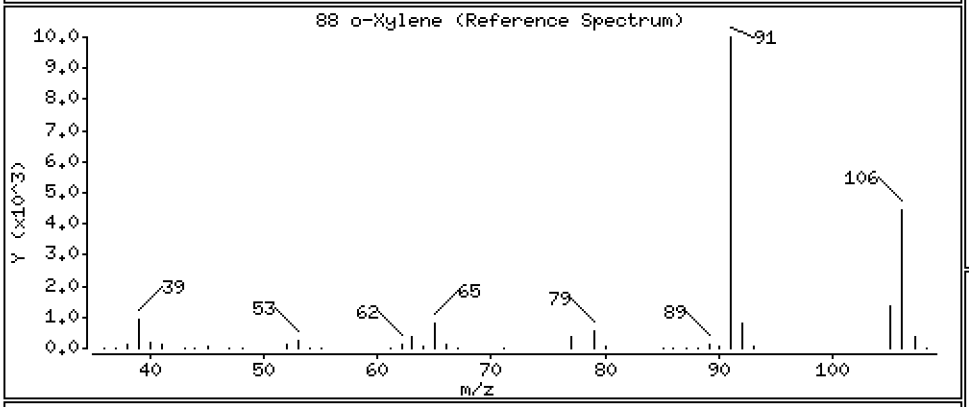
88 o-Xylene Concentration: 47.7682 ug/L

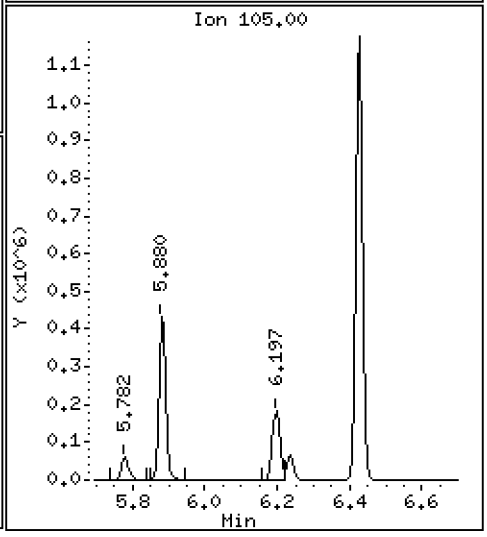


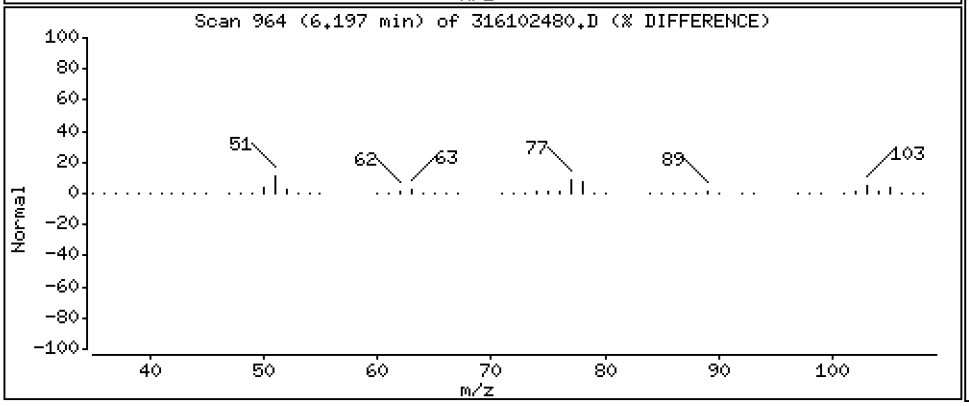












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 96

Date : 25-OCT-2016 09:17

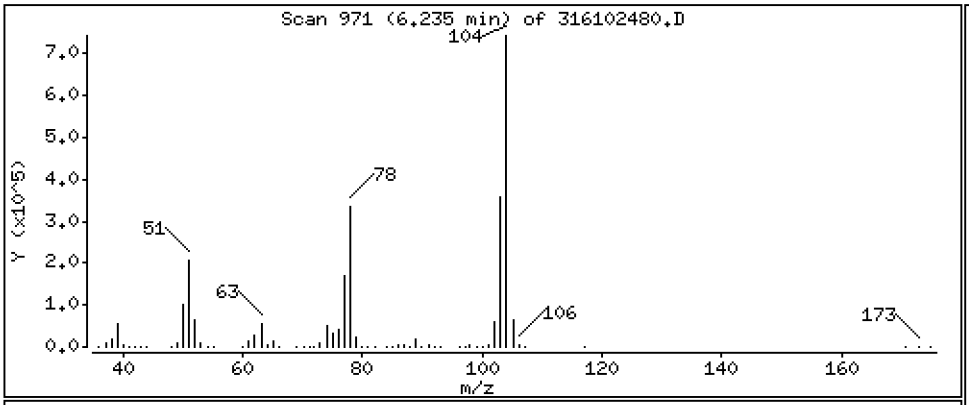
Client ID: Instrument: ms03.i

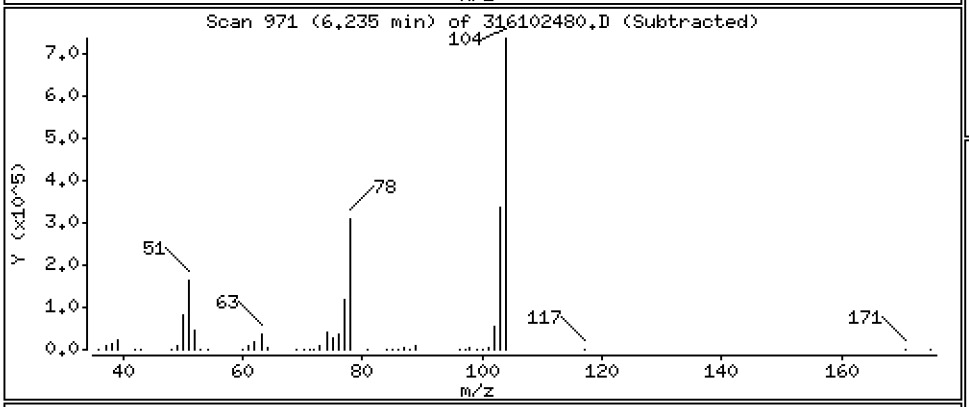
Sample Info: 1801;;1;2;4;;;

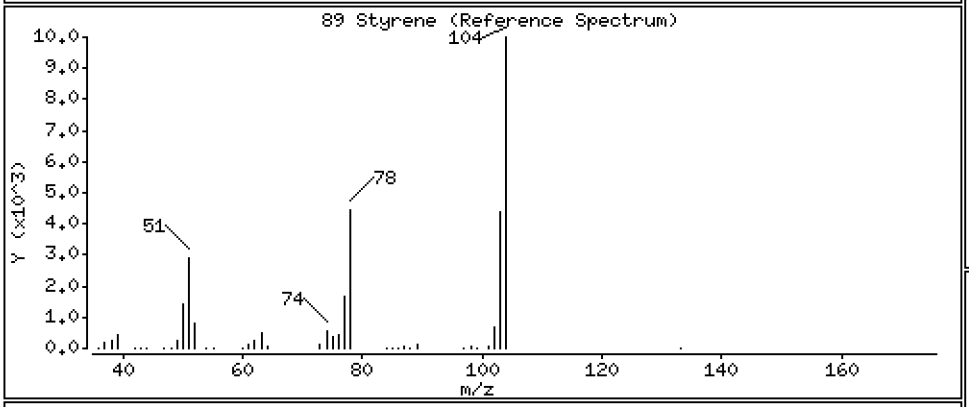
Purge Volume: 5.0 Operator: CJG

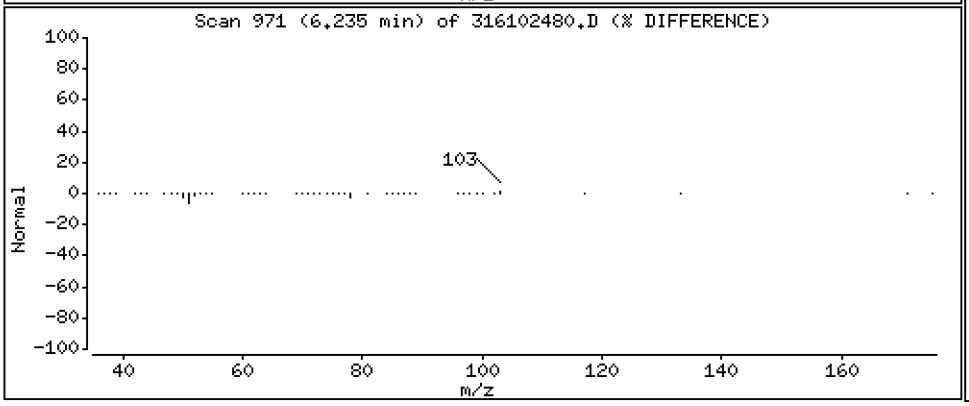
Column phase: DB-VRX Column diameter: 0.25

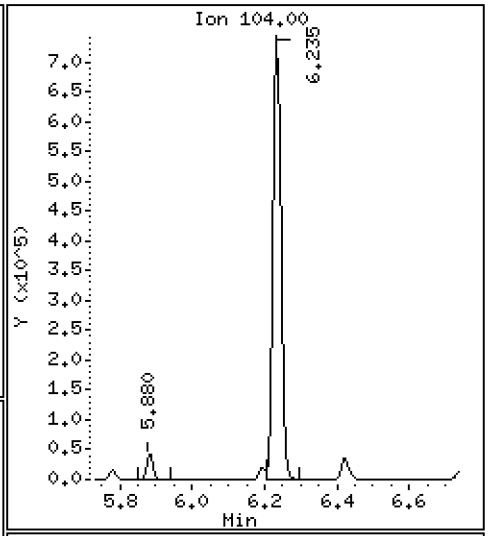
89 Styrene Concentration: 48.7807 ug/L

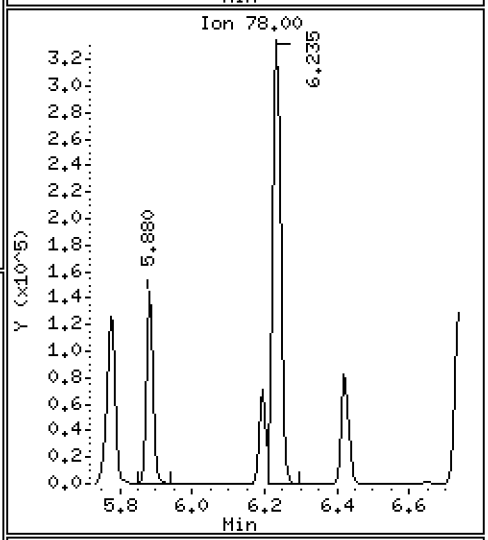


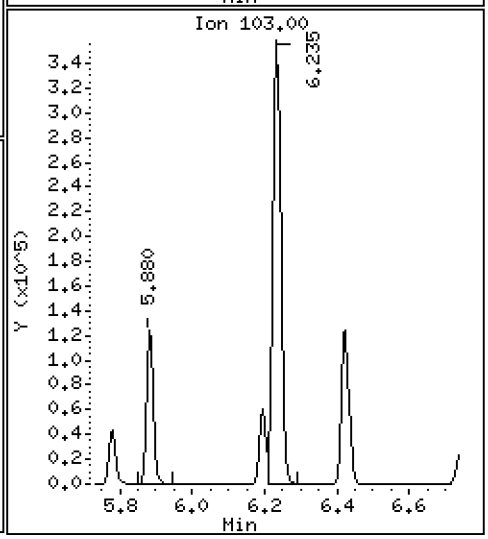












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 97

Date : 25-OCT-2016 09:17

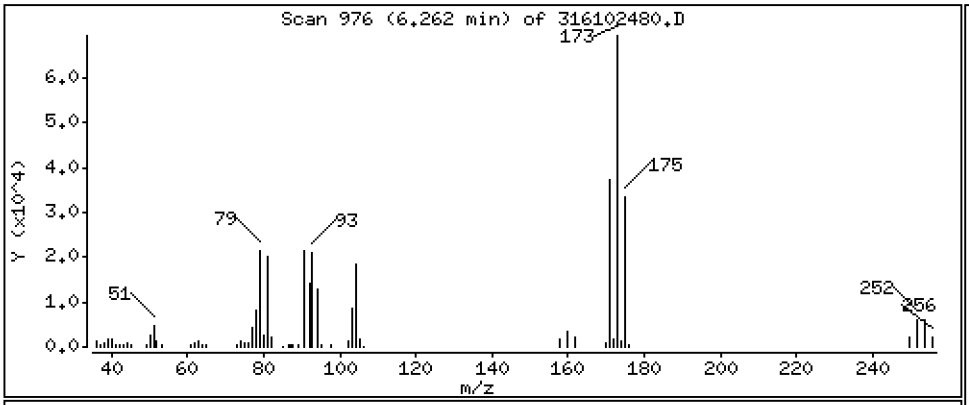
Client ID: Instrument: ms03.i

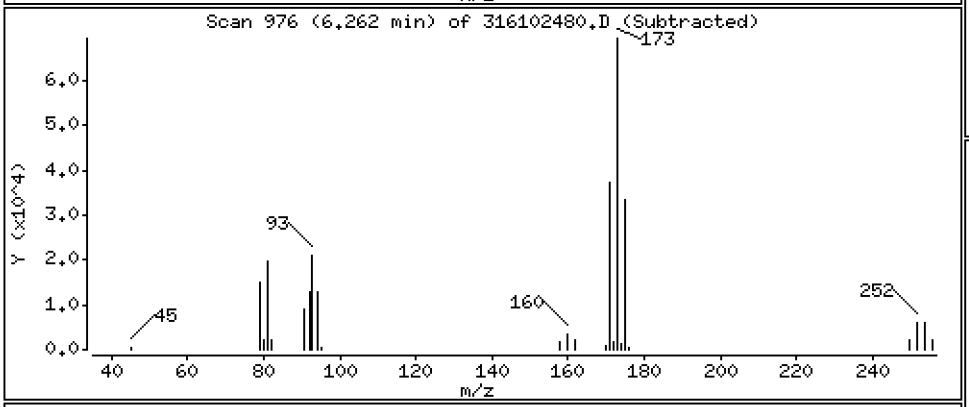
Sample Info: 1801;;1;2;4;;;

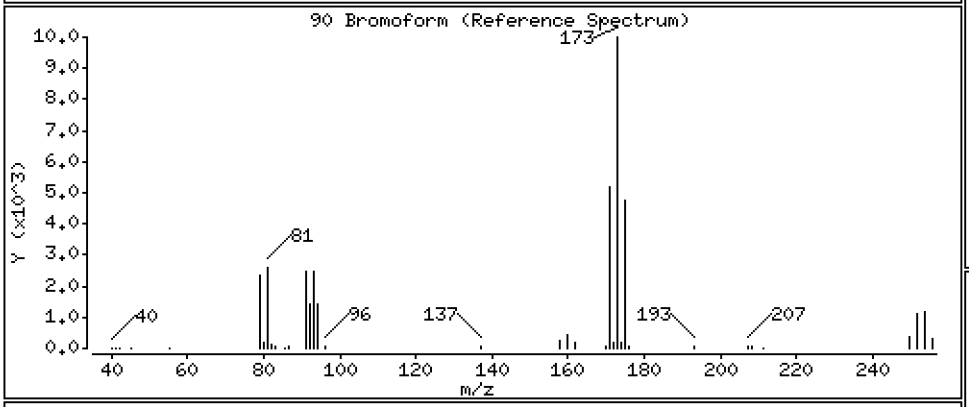
Purge Volume: 5.0 Operator: CJG

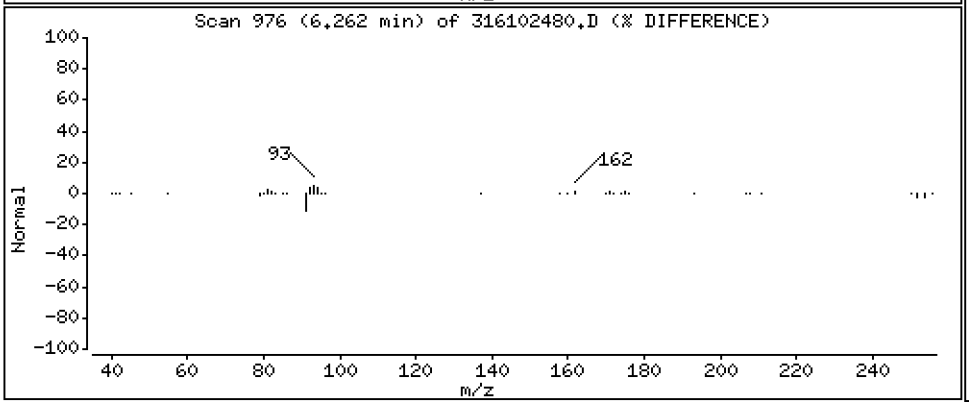
Column phase: DB-VRX Column diameter: 0.25

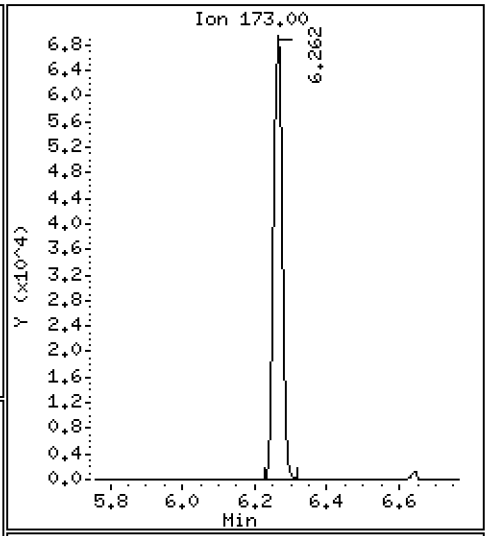
90 Bromoform Concentration: 39.6537 ug/L

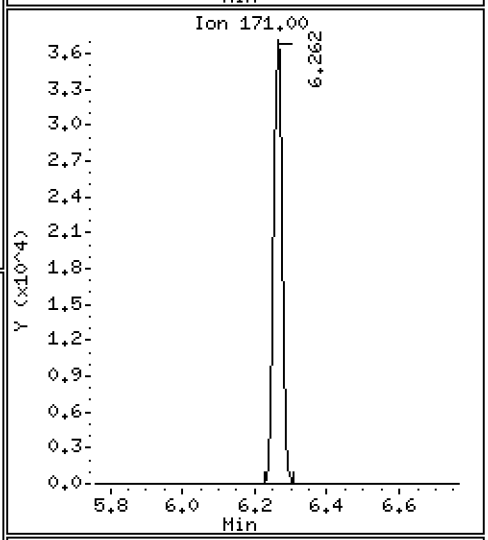


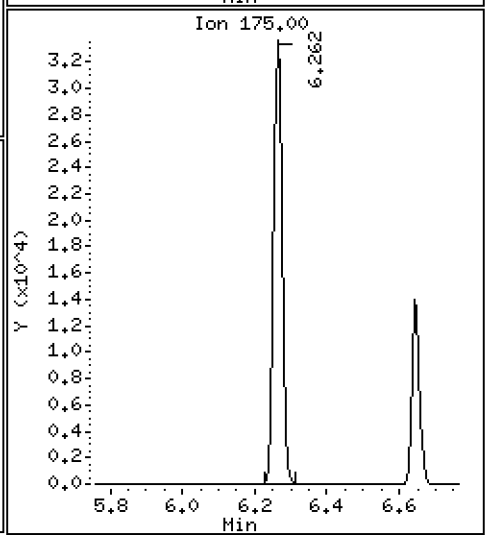












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 98

Date : 25-OCT-2016 09:17

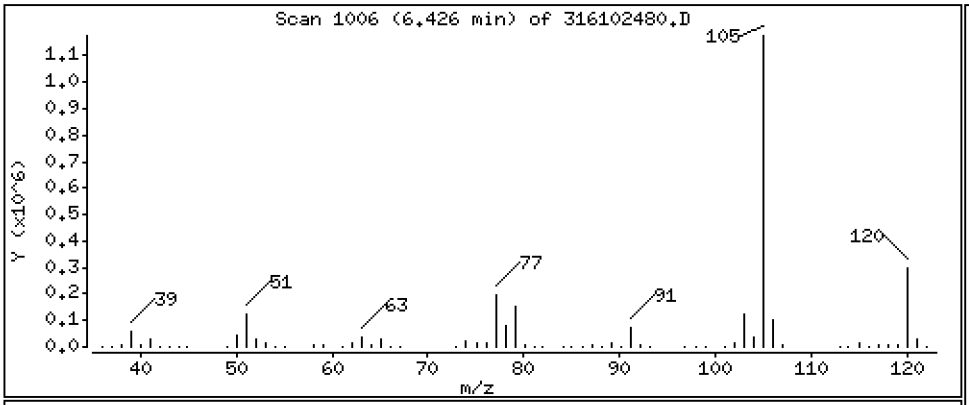
Client ID: Instrument: ms03.i

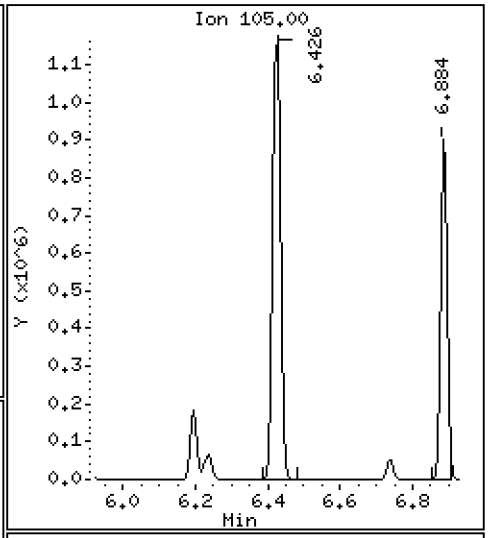
Sample Info: 1801;;1;2;4;;;

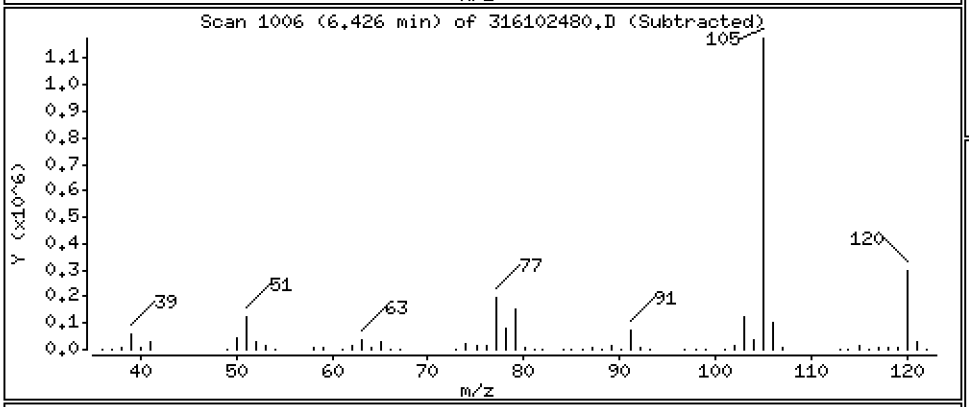
Purge Volume: 5.0 Operator: CJG

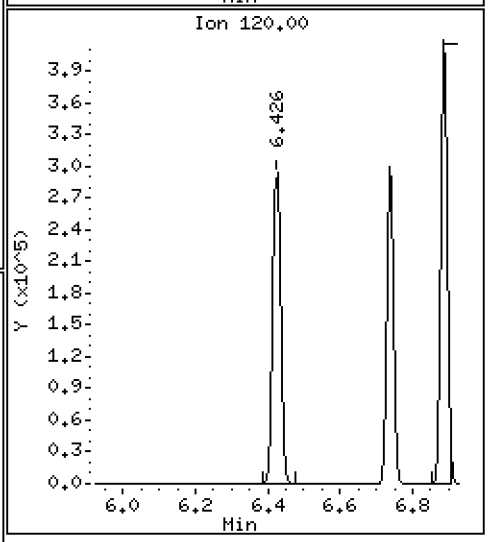
Column phase: DB-VRX Column diameter: 0.25

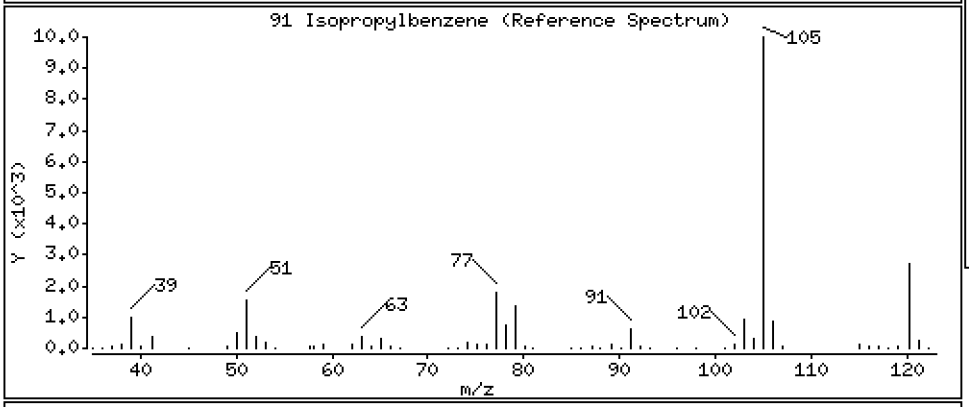
91 Isopropylbenzene Concentration: 47.2391 ug/L

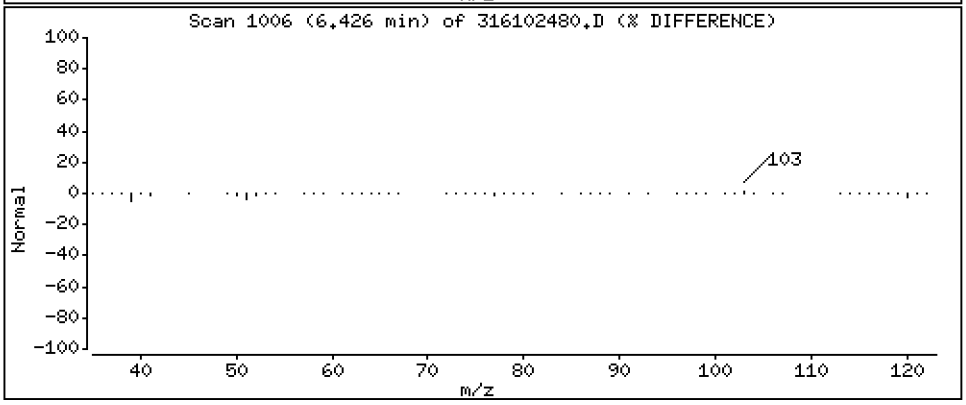












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 99

Date : 25-OCT-2016 09:17

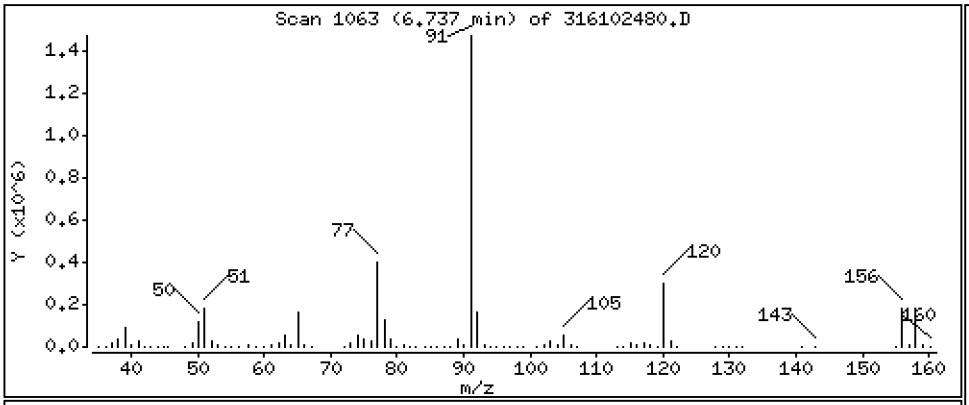
Client ID: Instrument: ms03.i

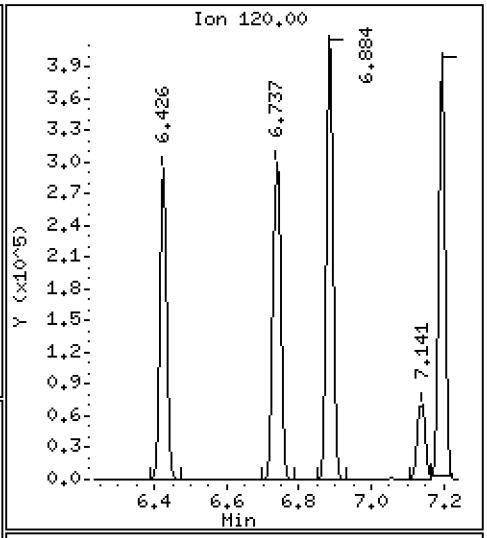
Sample Info: 1801;;1;2;4;;;

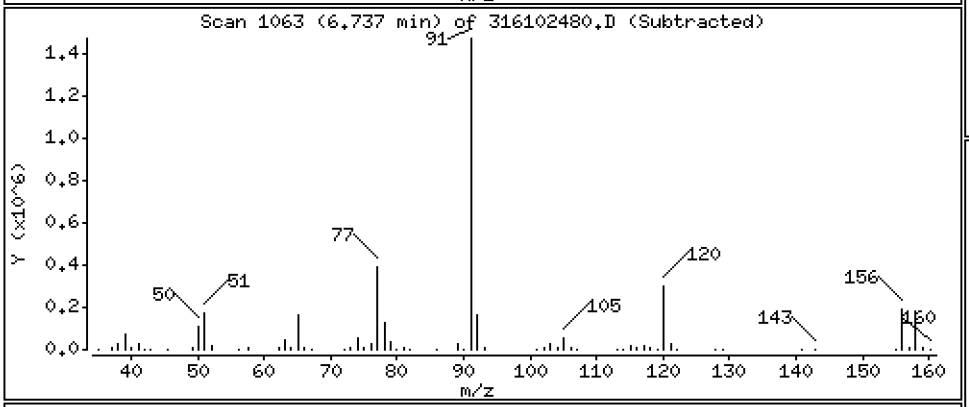
Purge Volume: 5.0 Operator: CJG

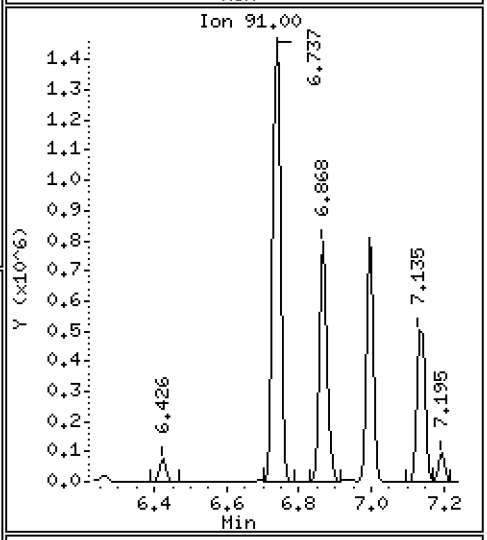
Column phase: DB-VRX Column diameter: 0.25

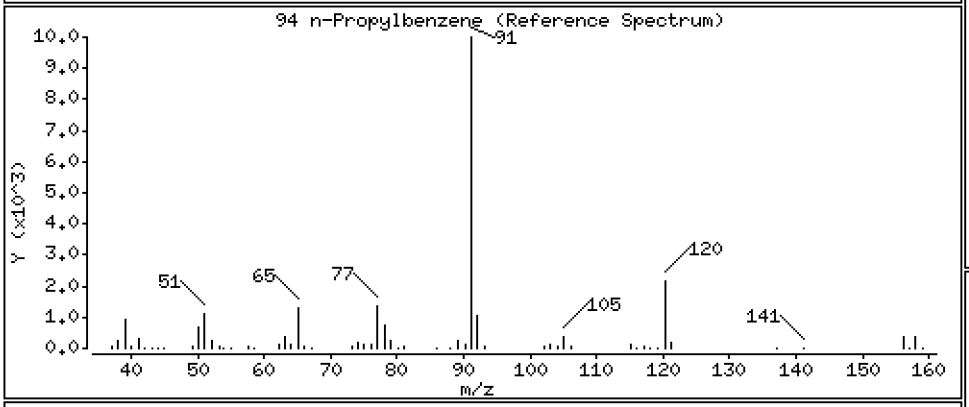
94 n-Propylbenzene Concentration: 47.9833 ug/L

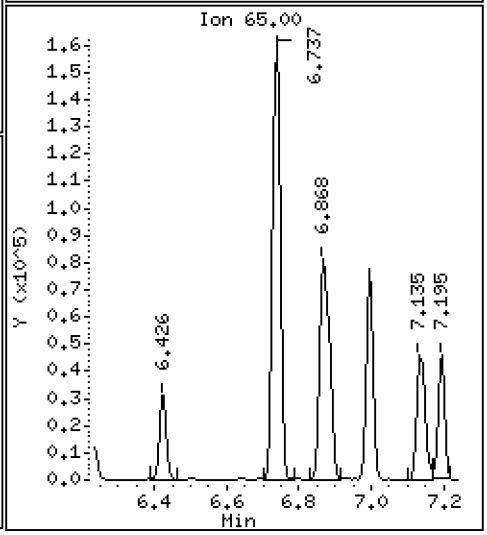


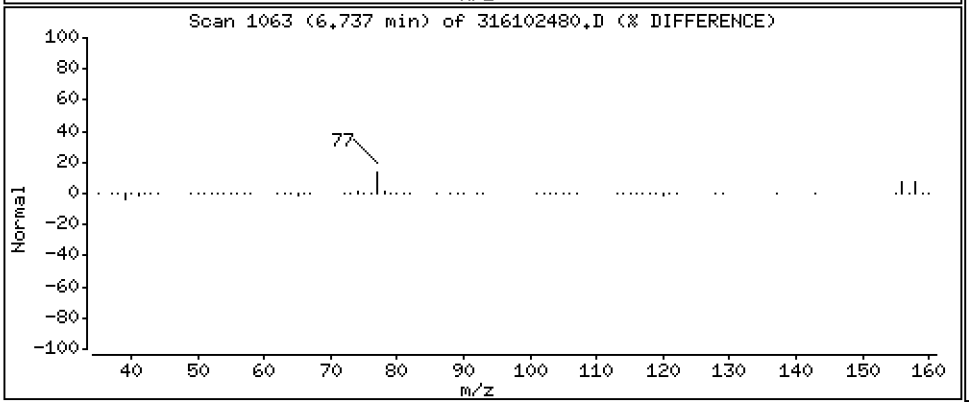












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 100

Date : 25-OCT-2016 09:17

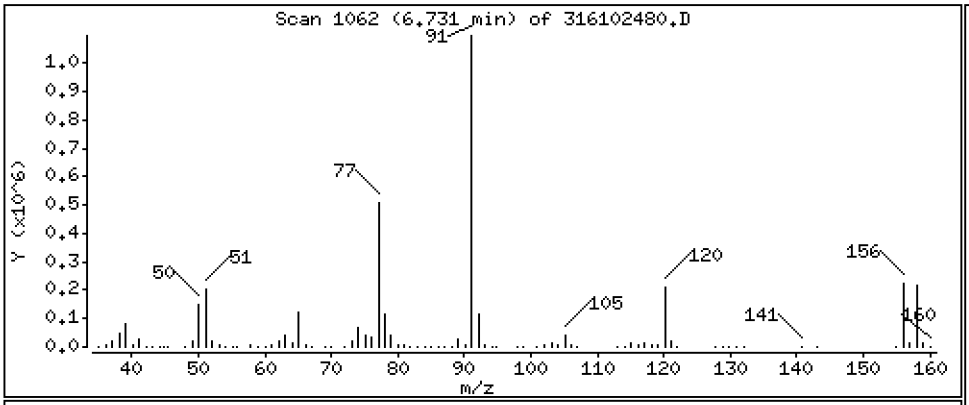
Client ID: Instrument: ms03.i

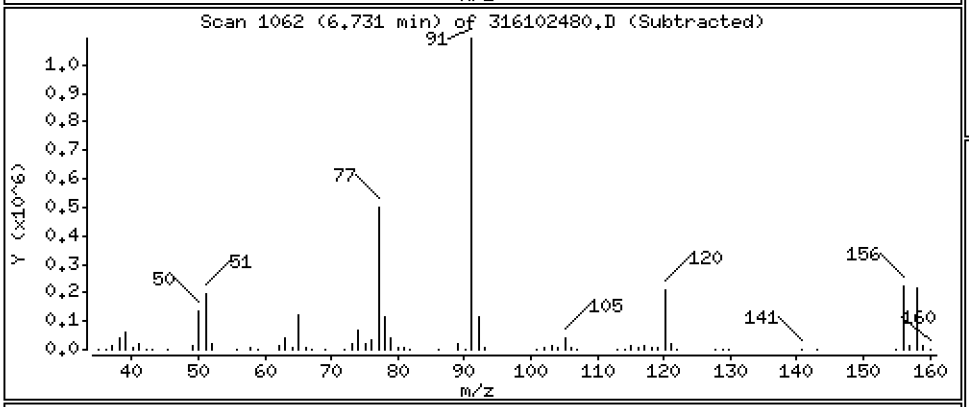
Sample Info: 1801;;1;2;4;;;

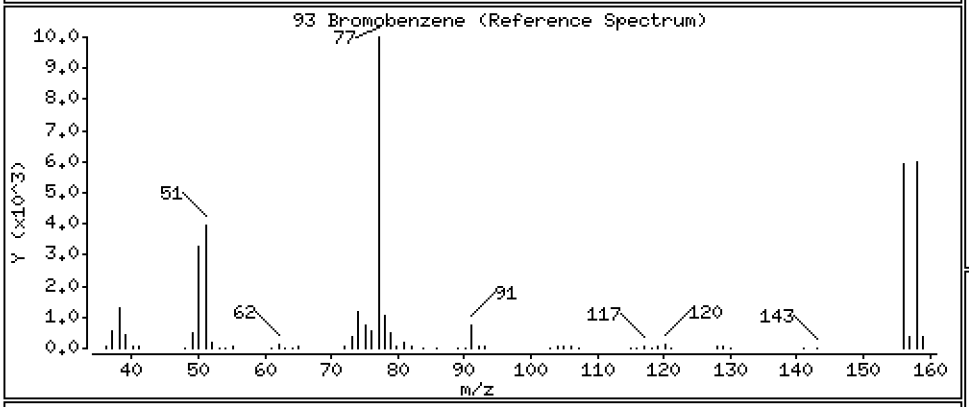
Purge Volume: 5.0 Operator: CJG

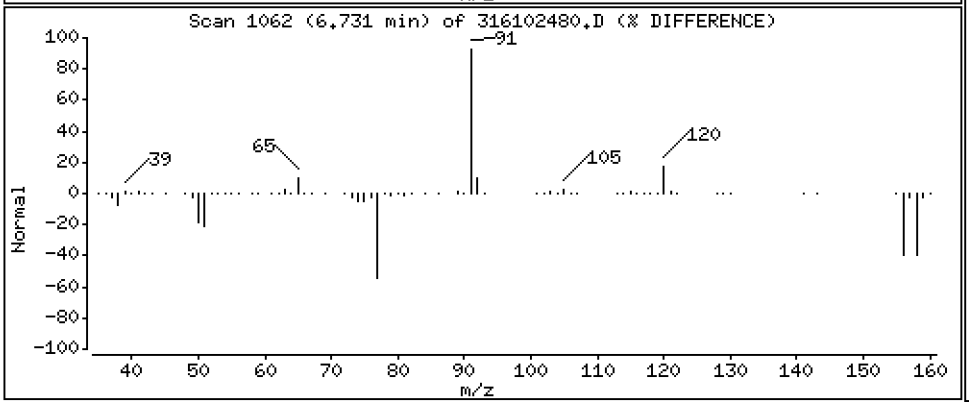
Column phase: DB-VRX Column diameter: 0.25

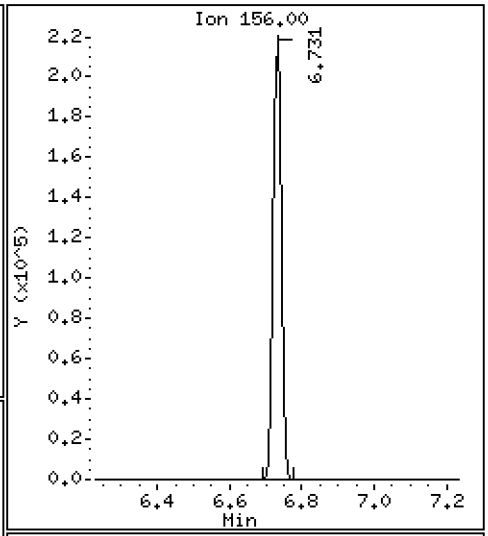
93 Bromobenzene Concentration: 43.9073 ug/L

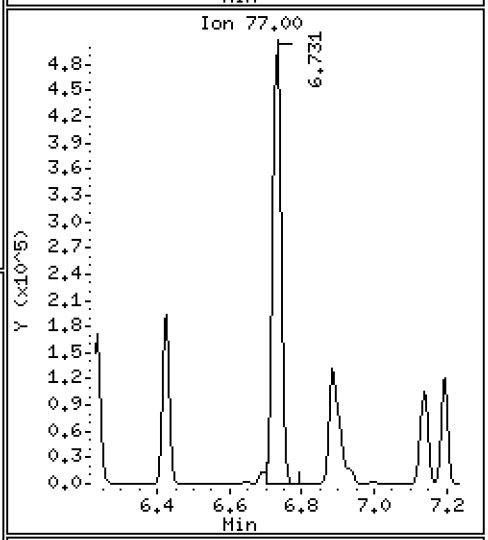


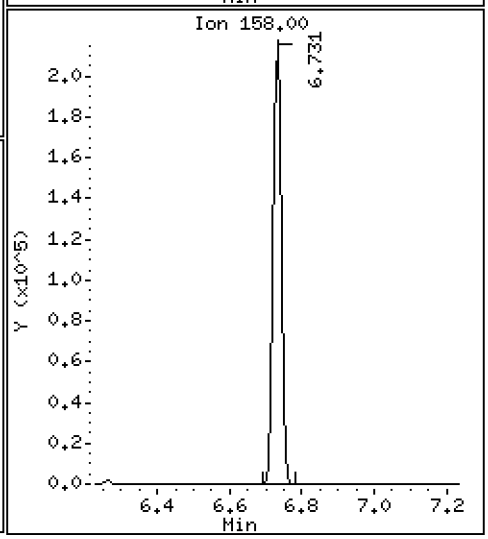












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 101

Date : 25-OCT-2016 09:17

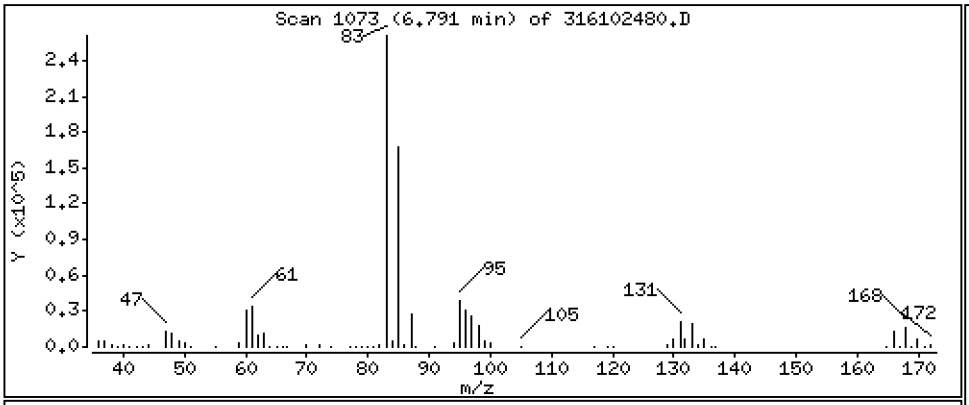
Client ID: Instrument: ms03.i

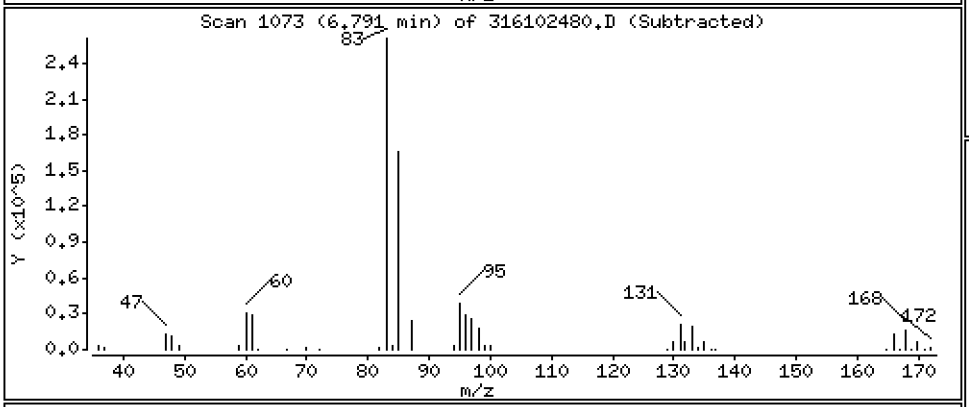
Sample Info: 1801;;1;2;4;;;

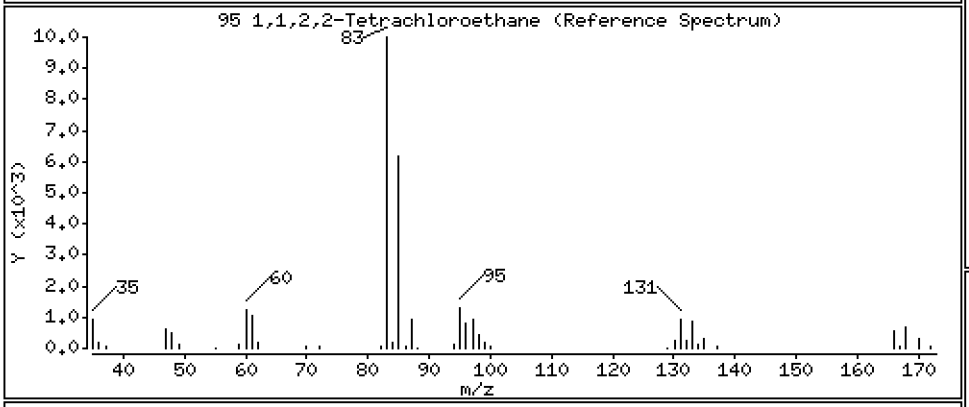
Purge Volume: 5.0 Operator: CJG

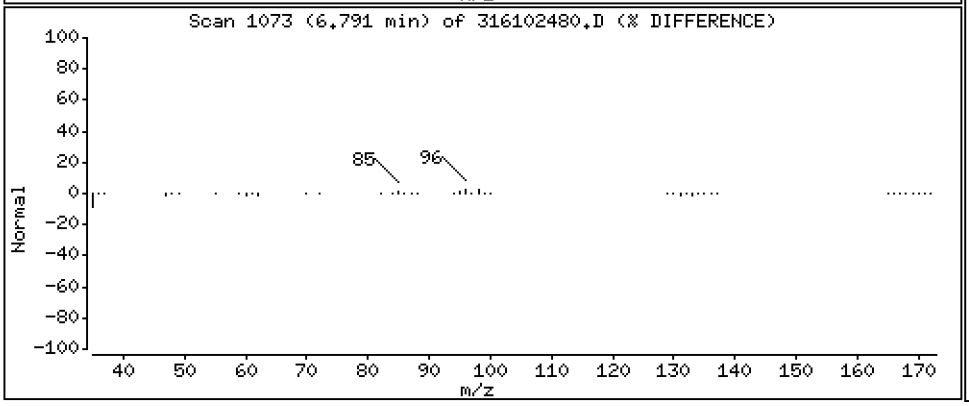
Column phase: DB-VRX Column diameter: 0.25

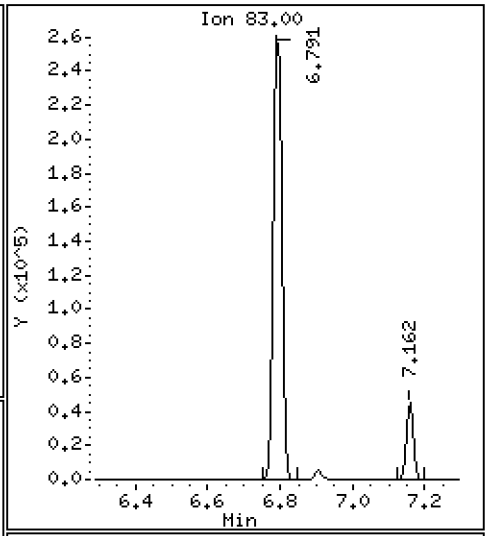
95 1,1,2,2-Tetrachloroethane Concentration: 46.4111 ug/L

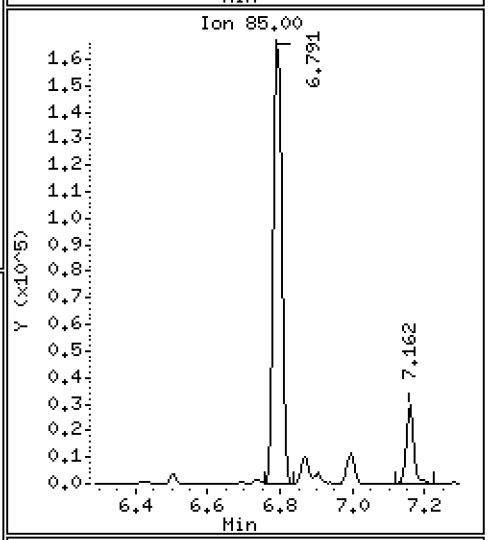


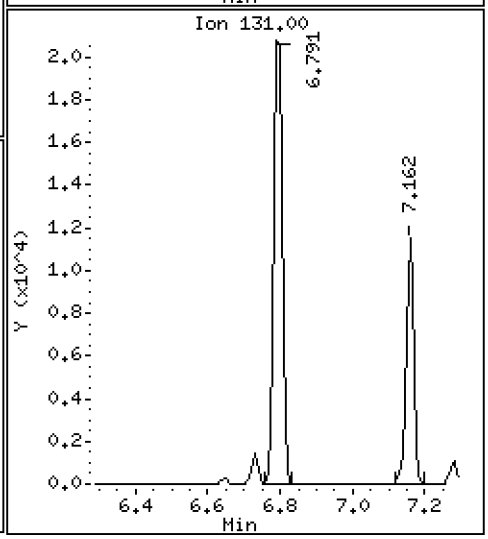












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 102

Date : 25-OCT-2016 09:17

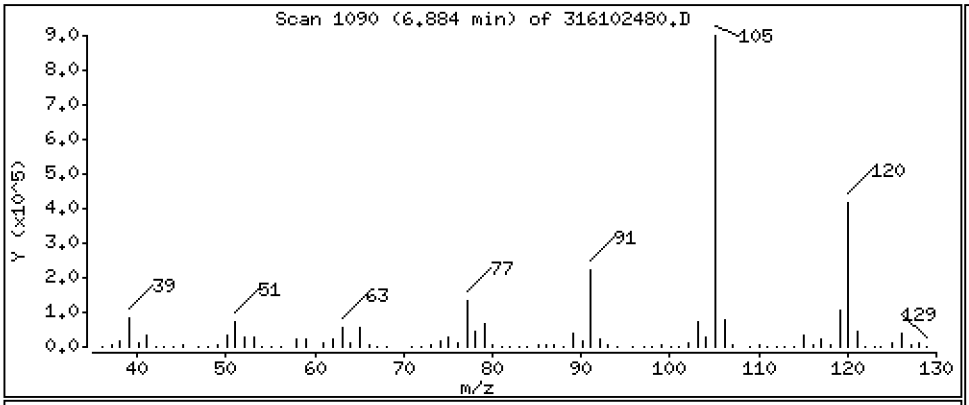
Client ID: Instrument: ms03.i

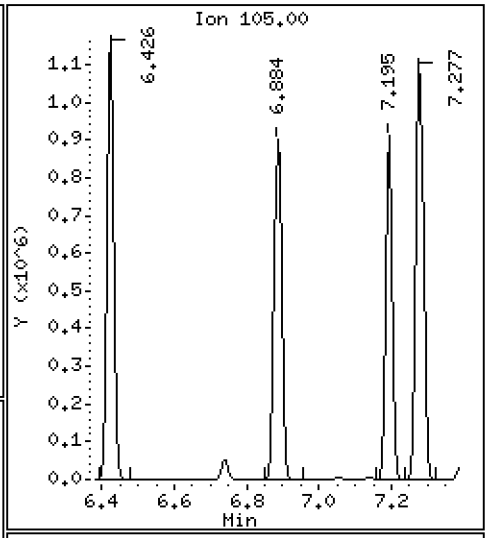
Sample Info: 1801;;1;2;4;;;

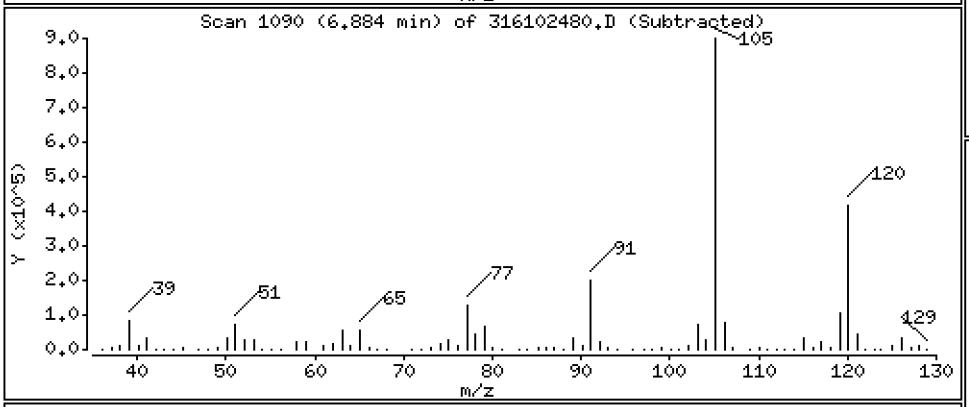
Purge Volume: 5.0 Operator: CJG

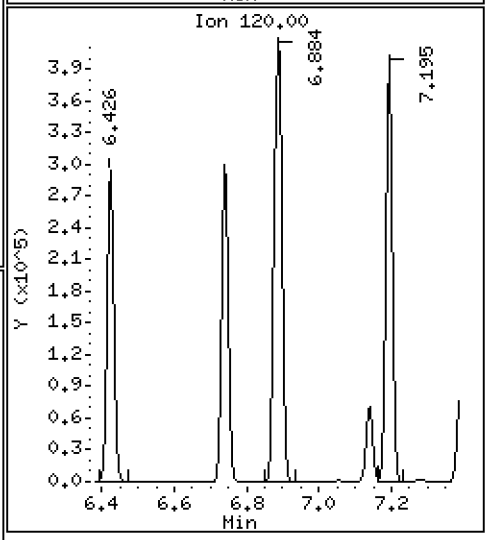
Column phase: DB-VRX Column diameter: 0.25

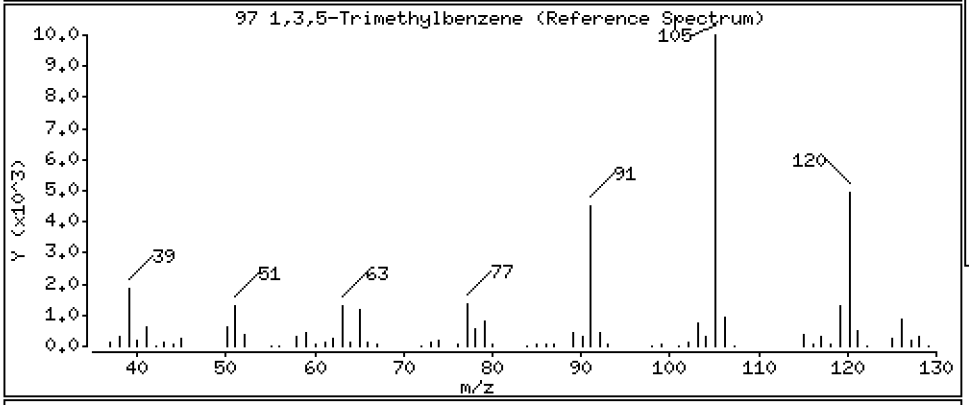
97 1,3,5-Trimethylbenzene Concentration: 48.9293 ug/L

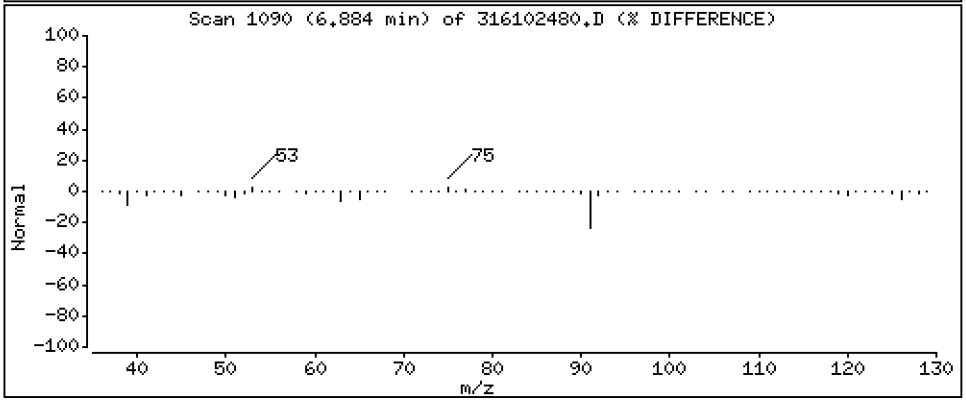












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 103

Date : 25-OCT-2016 09:17

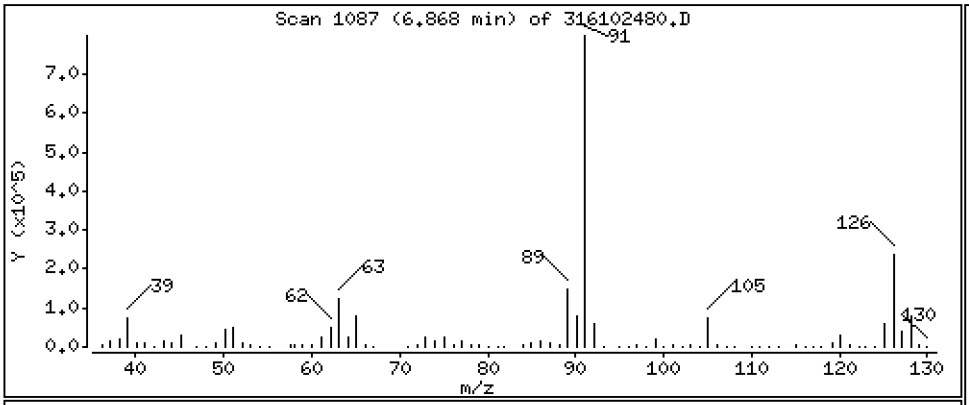
Client ID: Instrument: ms03.i

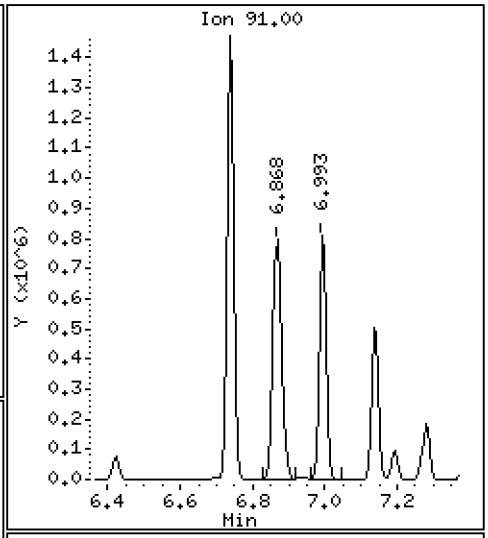
Sample Info: 1801;;1;2;4;;;

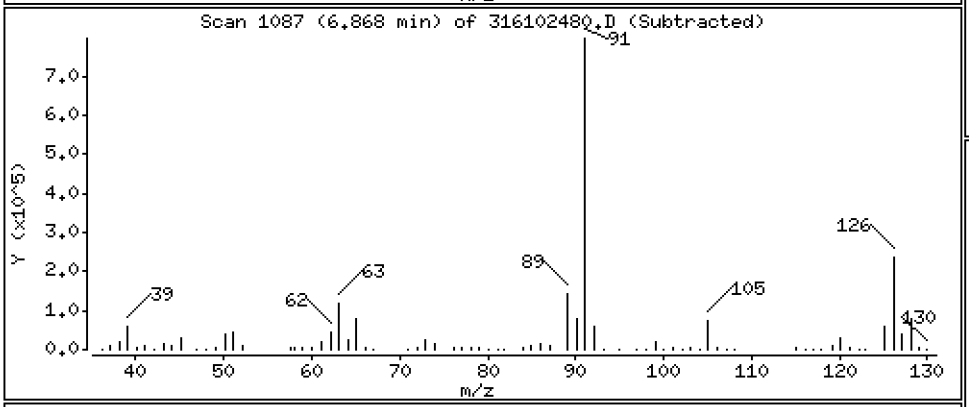
Purge Volume: 5.0 Operator: CJG

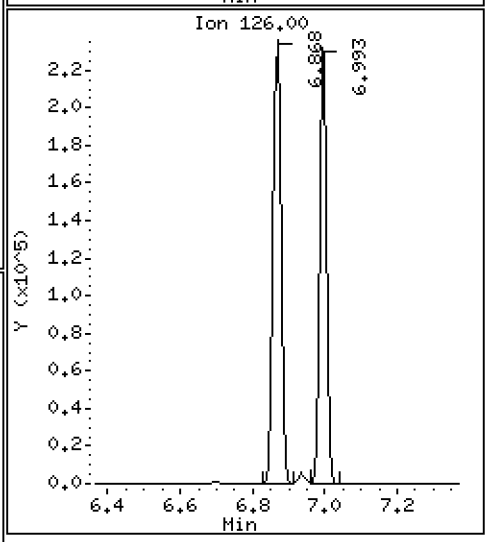
Column phase: DB-VRX Column diameter: 0.25

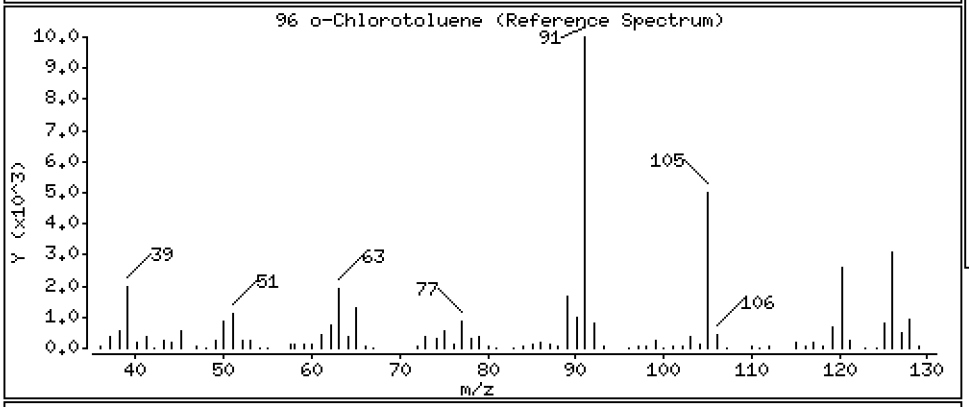
96 o-Chlorotoluene Concentration: 46.6857 ug/L

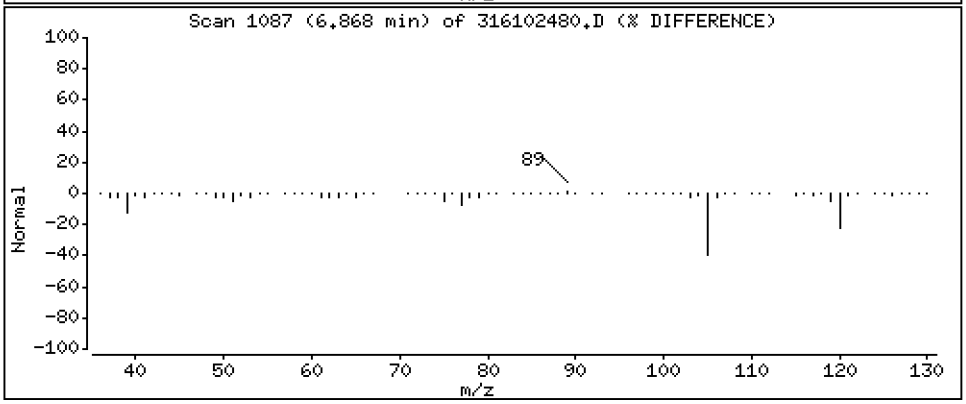












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 104

Date : 25-OCT-2016 09:17

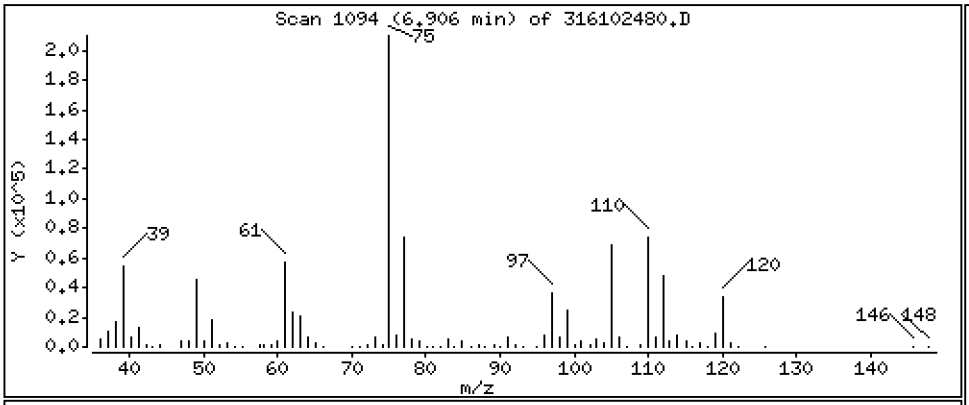
Client ID: Instrument: ms03.i

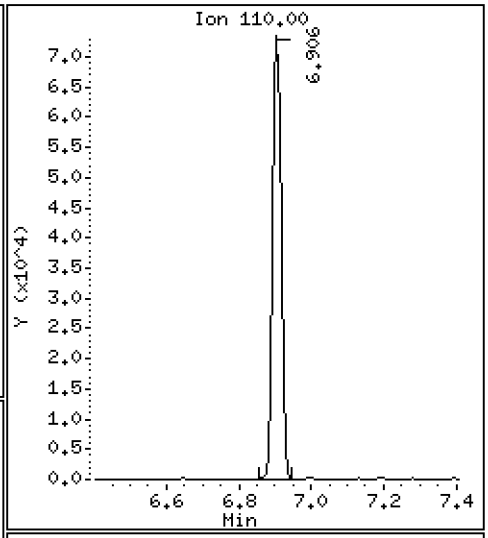
Sample Info: 1801;;1;2;4;;;

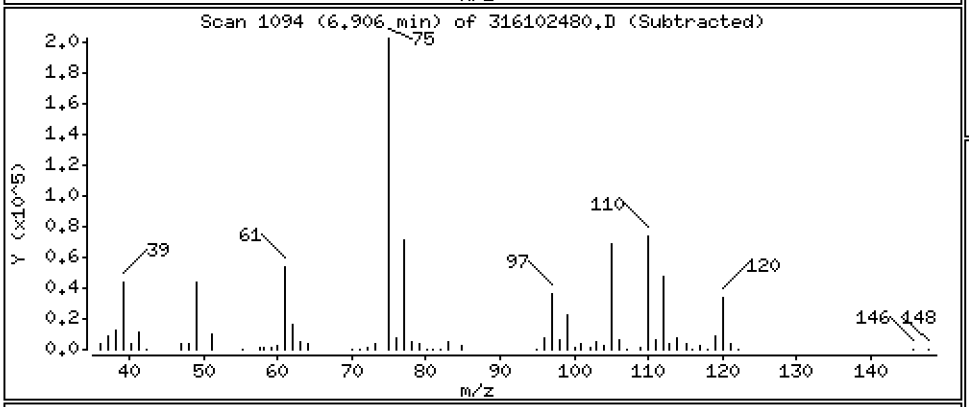
Purge Volume: 5.0 Operator: CJG

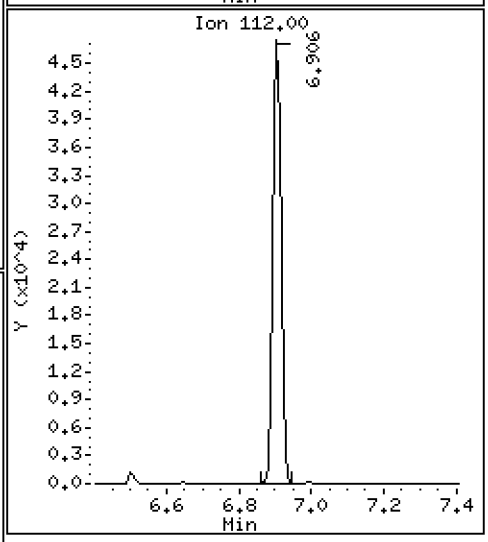
Column phase: DB-VRX Column diameter: 0.25

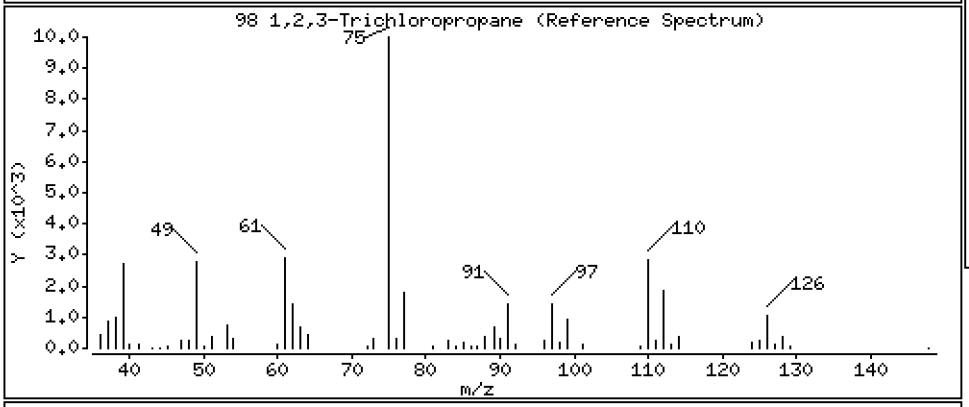
98 1,2,3-Trichloropropane Concentration: 44.8027 ug/L

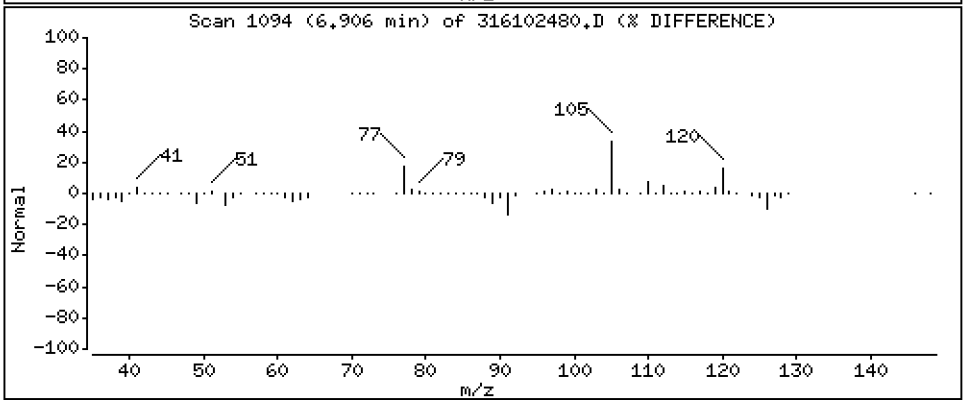












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 105

Date : 25-OCT-2016 09:17

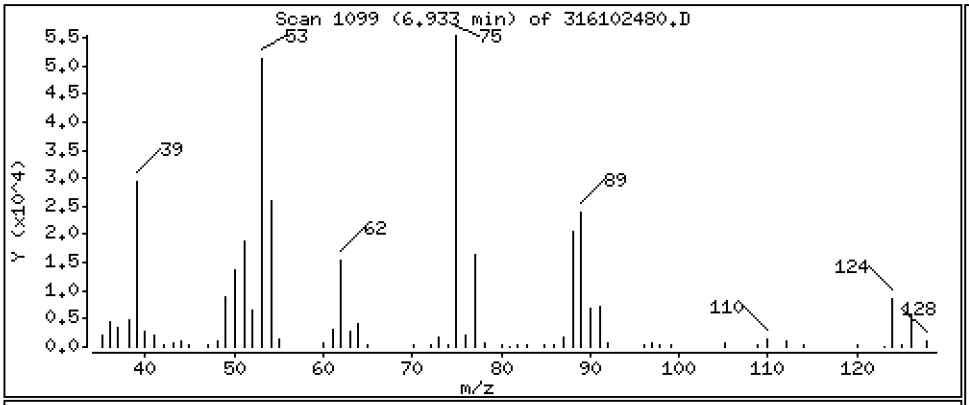
Client ID: Instrument: ms03.i

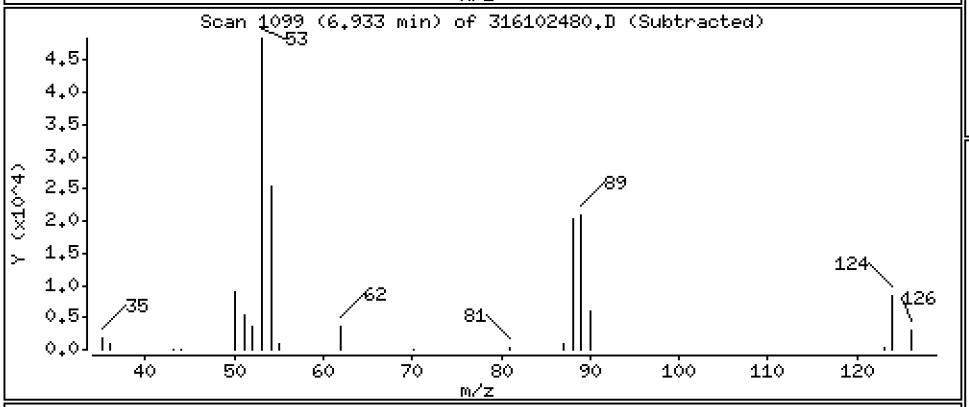
Sample Info: 1801;;1;2;4;;;

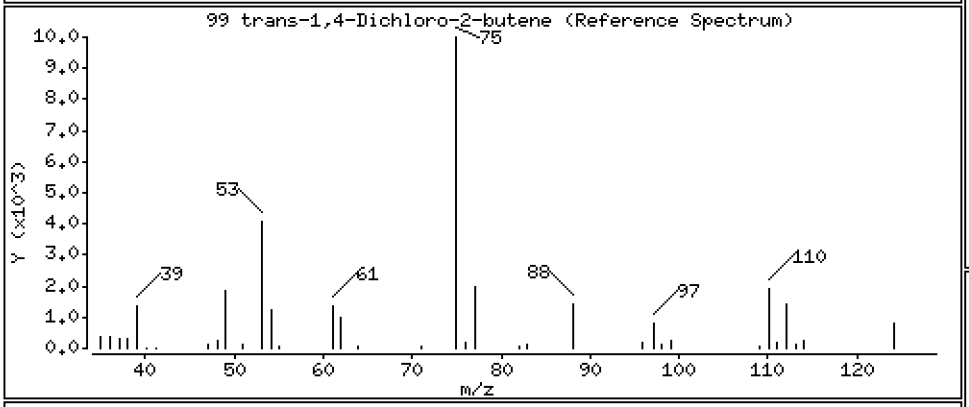
Purge Volume: 5.0 Operator: CJG

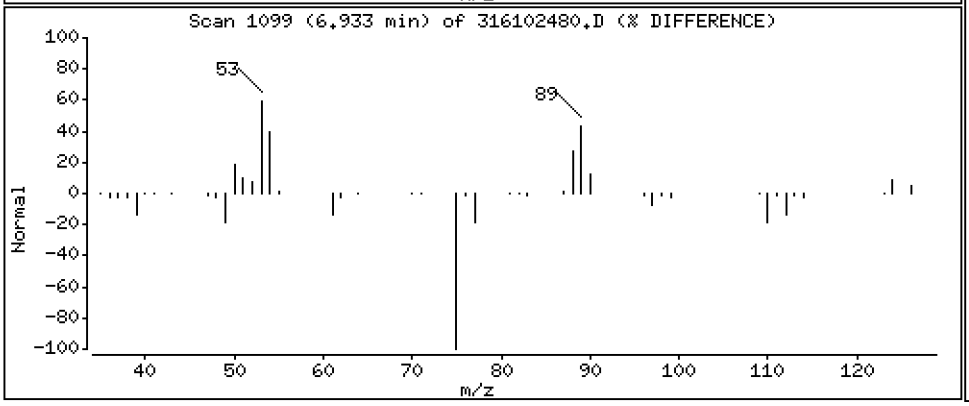
Column phase: DB-VRX Column diameter: 0.25

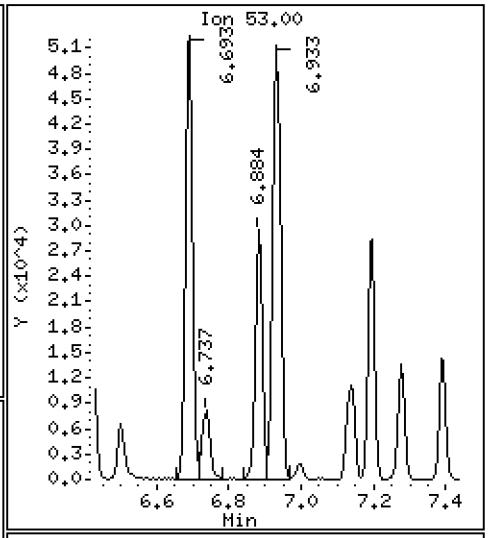
99 trans-1,4-Dichloro-2-butene Concentration: 36.1748 ug/L

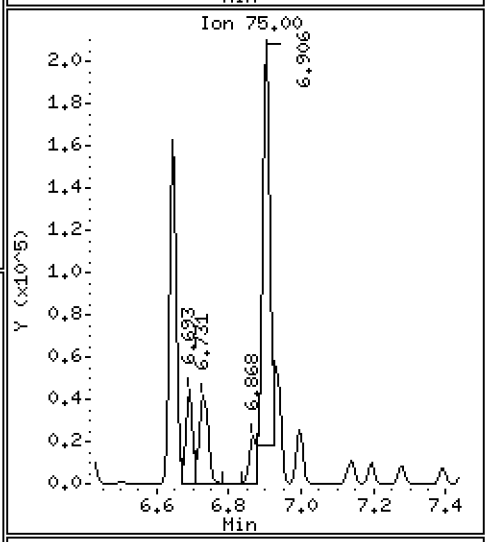


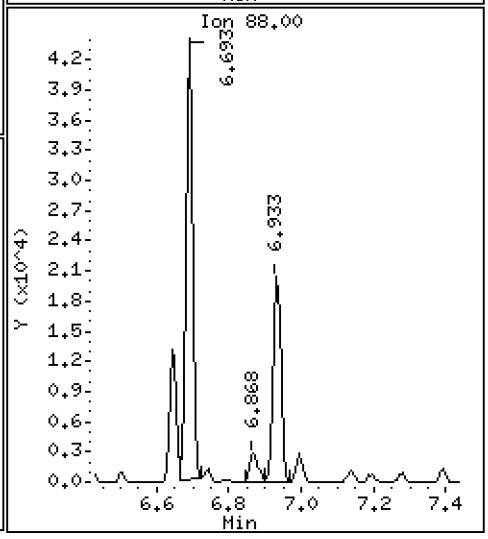












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 106

Date : 25-OCT-2016 09:17

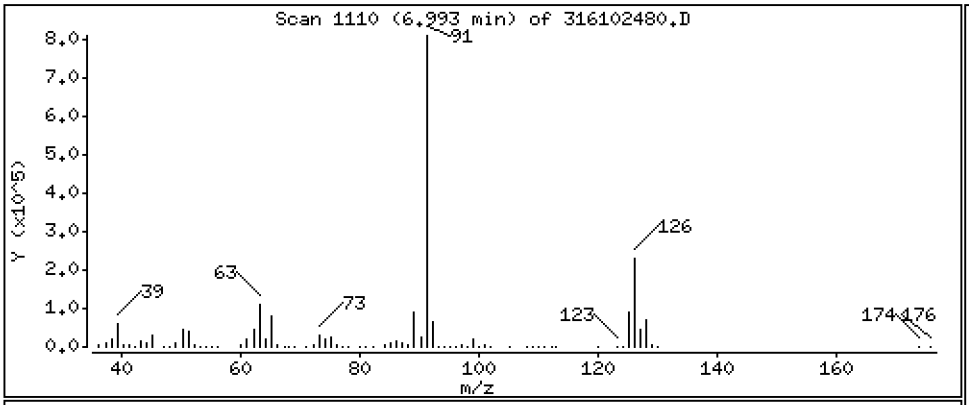
Client ID: Instrument: ms03.i

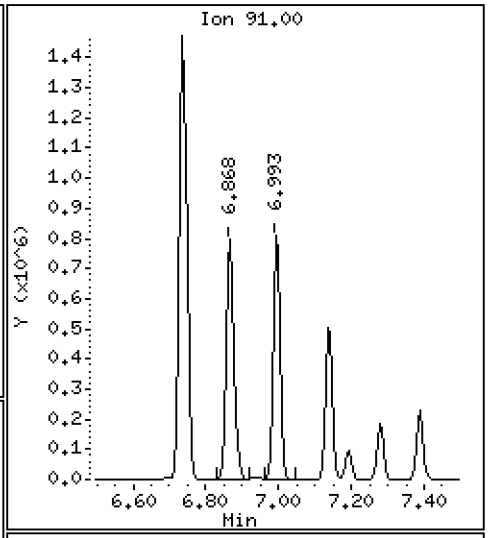
Sample Info: 1801;;1;2;4;;;

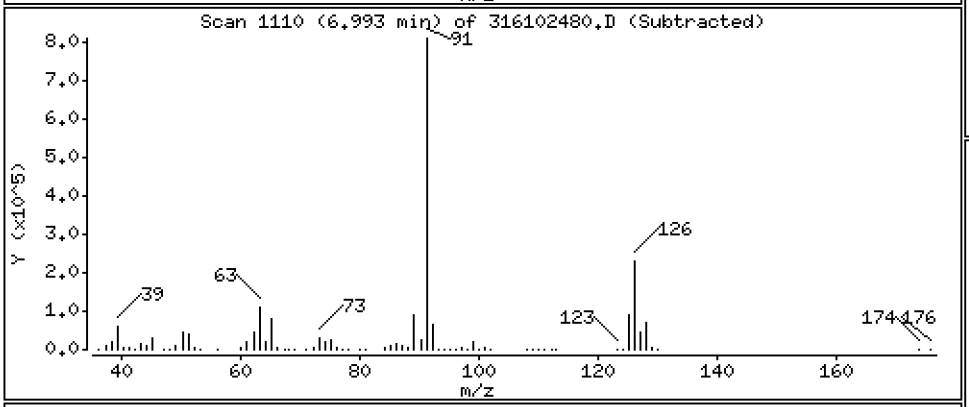
Purge Volume: 5.0 Operator: CJG

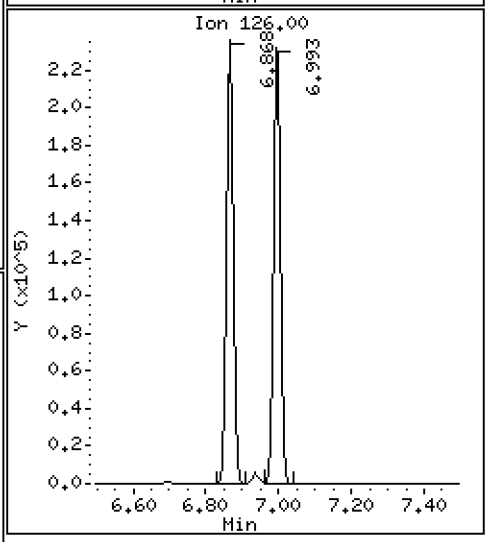
Column phase: DB-VRX Column diameter: 0.25

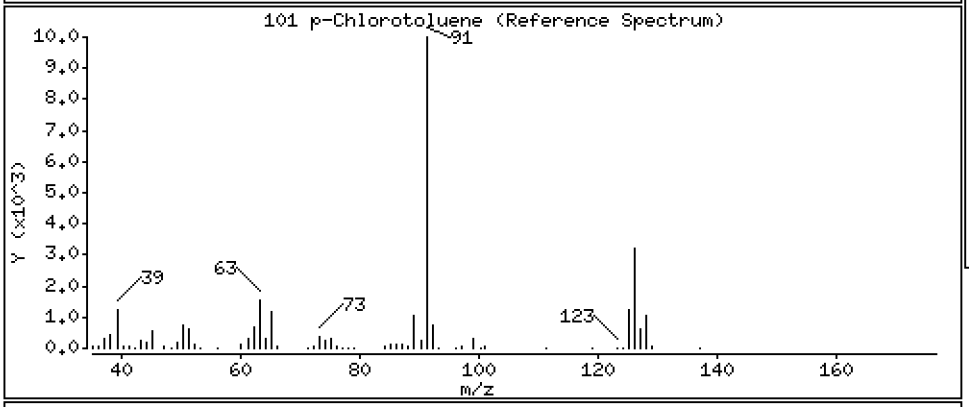
101 p-Chlorotoluene Concentration: 46.5669 ug/L

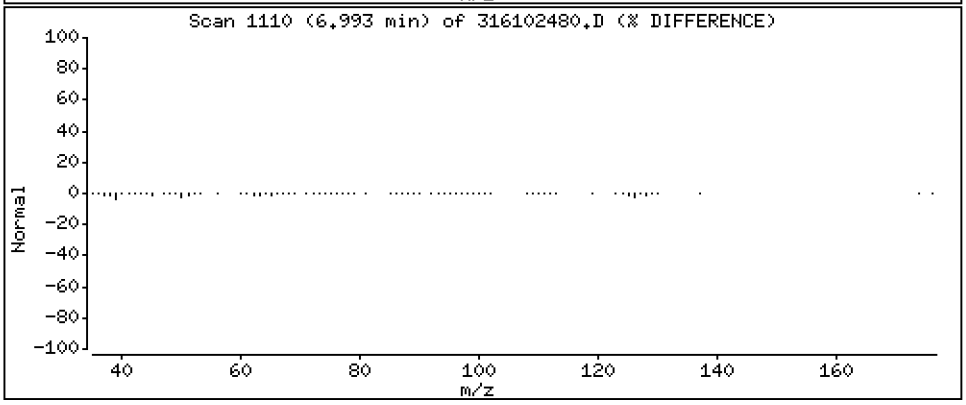












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 107

Date : 25-OCT-2016 09:17

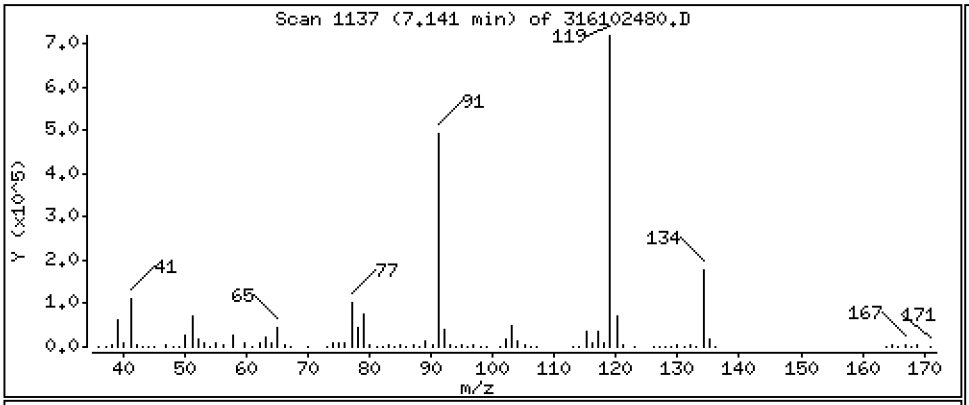
Client ID: Instrument: ms03.i

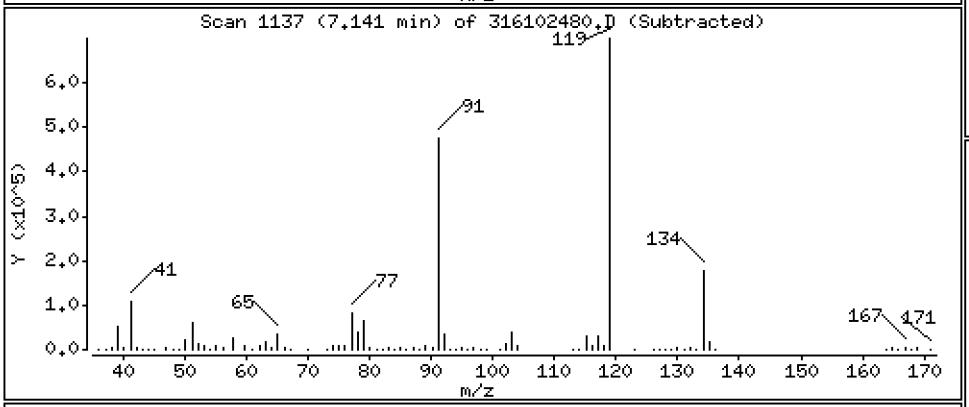
Sample Info: 1801;;1;2;4;;;

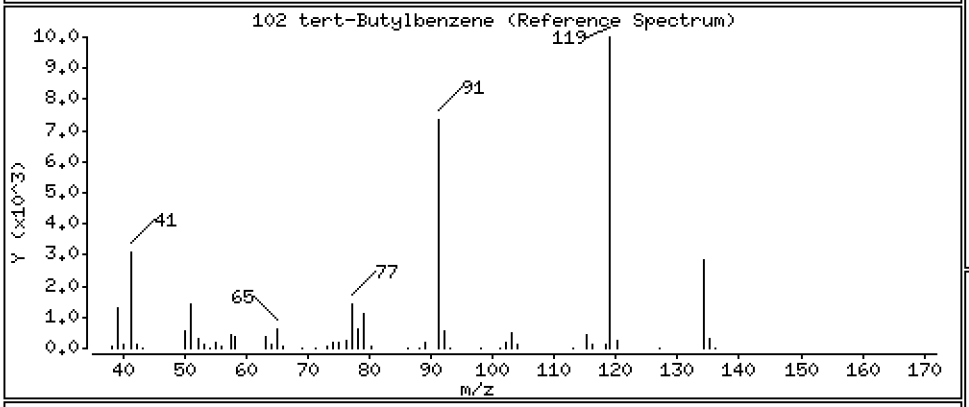
Purge Volume: 5.0 Operator: CJG

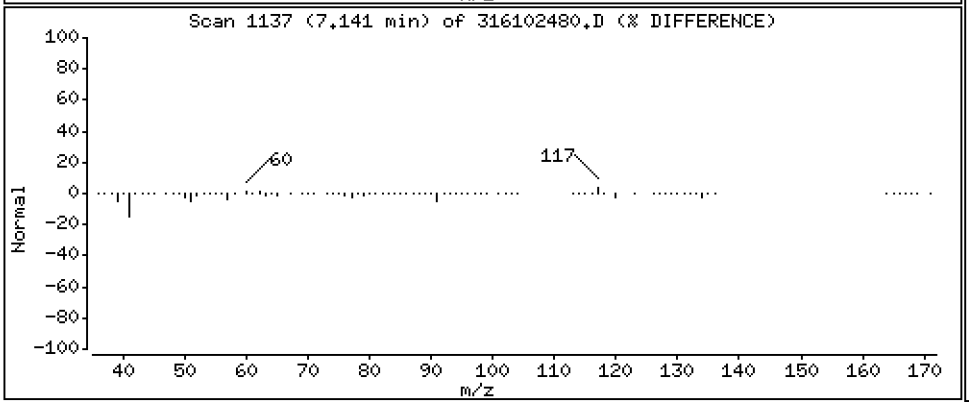
Column phase: DB-VRX Column diameter: 0.25

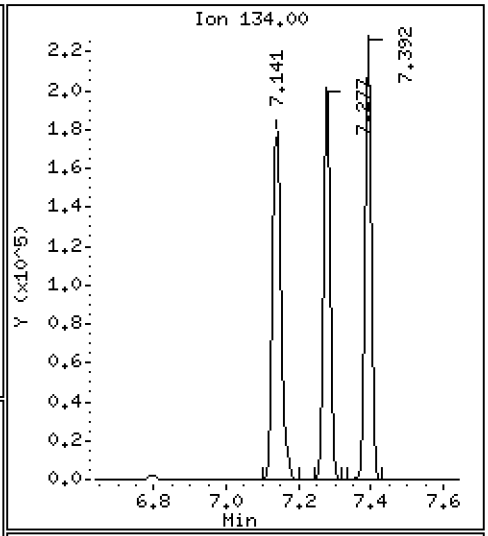
102 tert-Butylbenzene Concentration: 47.3931 ug/L

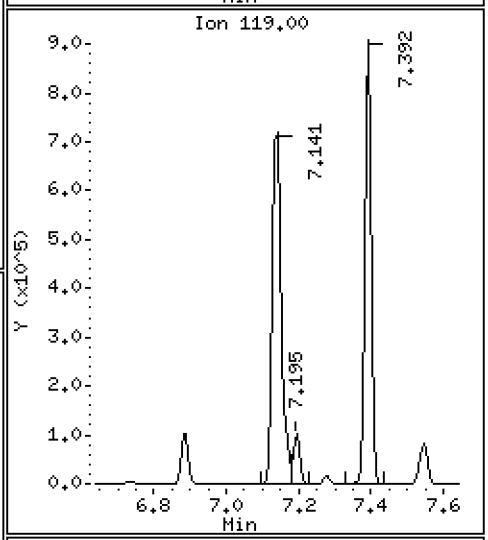


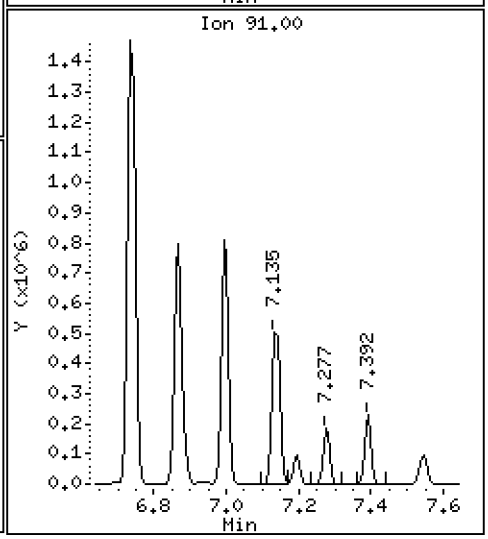












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 108

Date : 25-OCT-2016 09:17

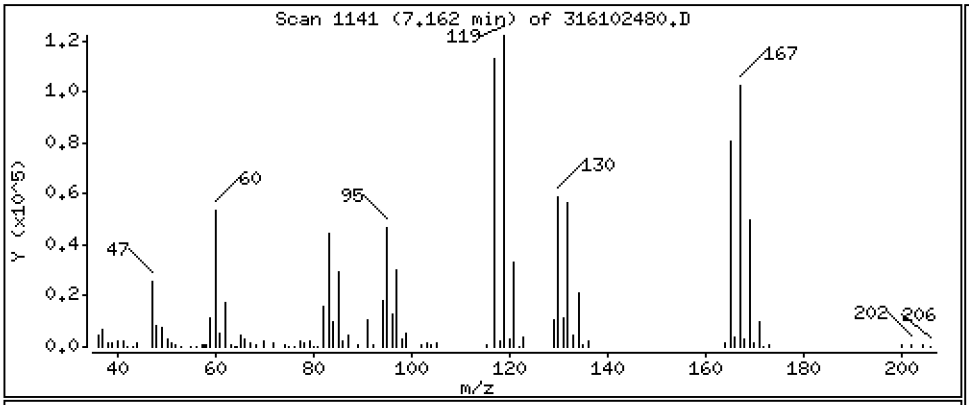
Client ID: Instrument: ms03.i

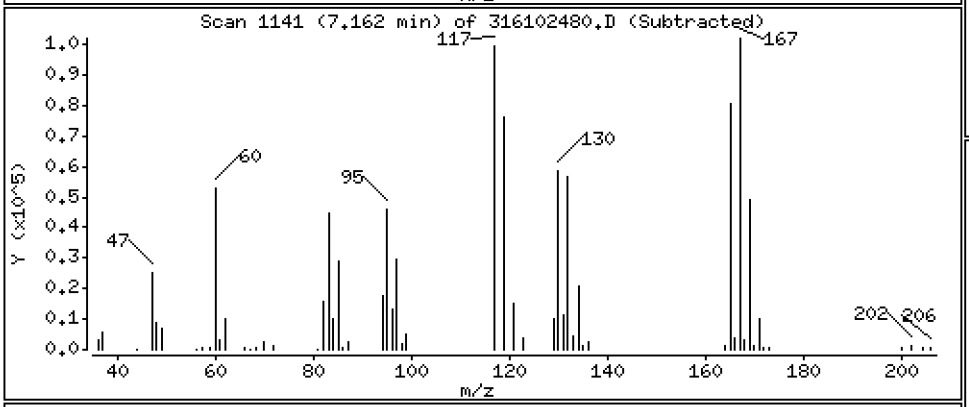
Sample Info: 1801;;1;2;4;;;

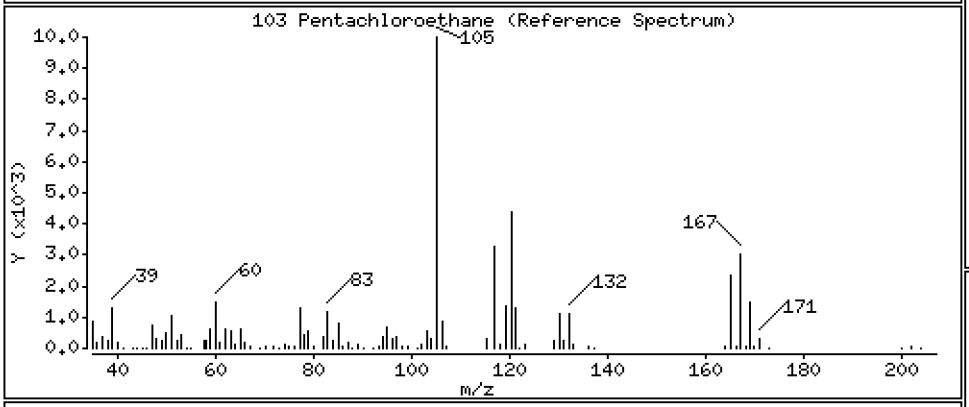
Purge Volume: 5.0 Operator: CJG

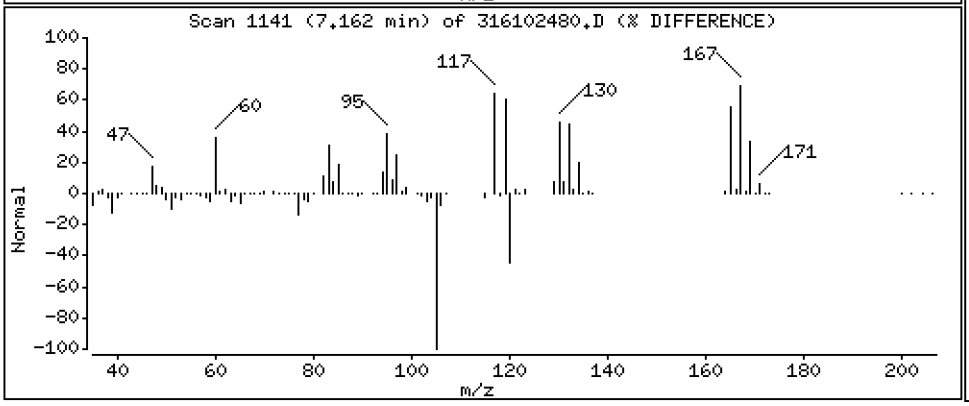
Column phase: DB-VRX Column diameter: 0.25

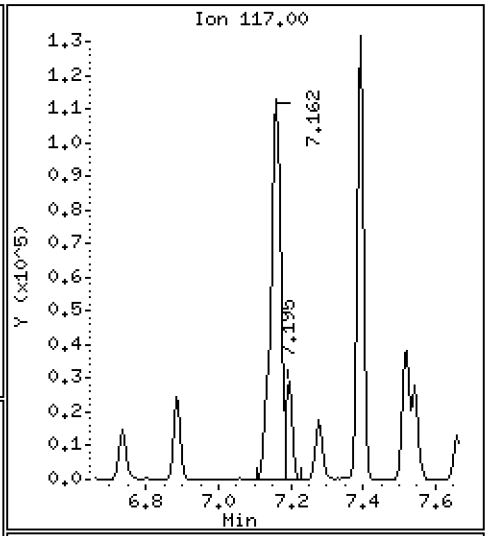
103 Pentachloroethane Concentration: 43.9195 ug/L

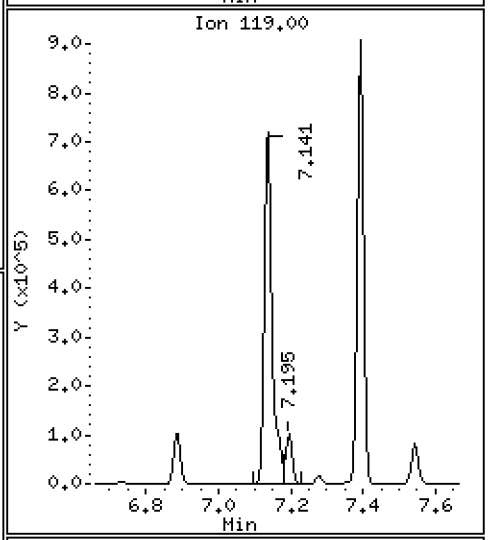


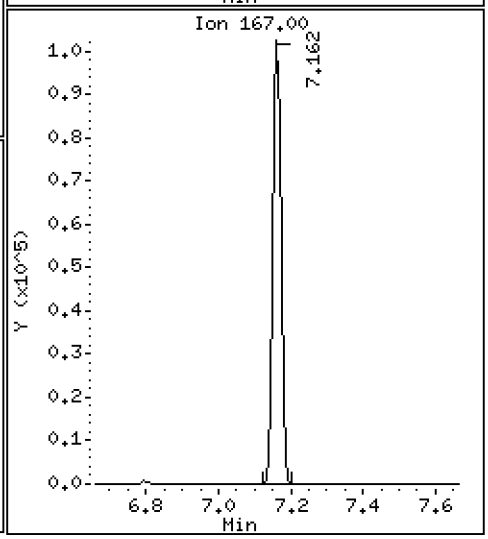












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 109

Date : 25-OCT-2016 09:17

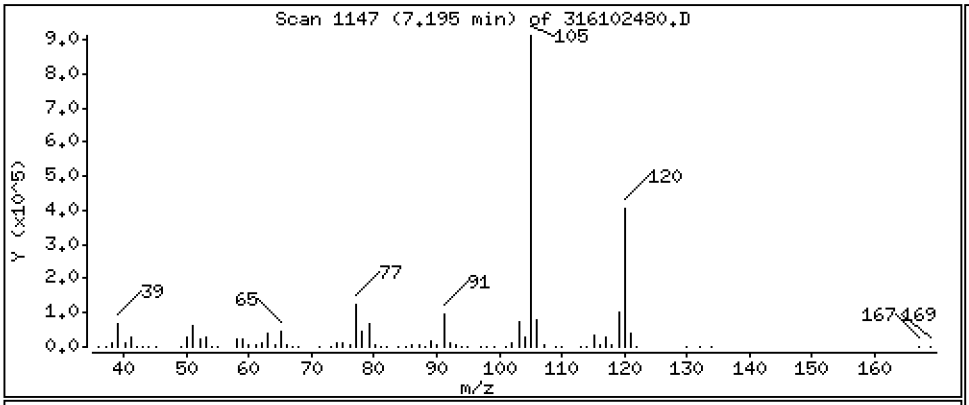
Client ID: Instrument: ms03.i

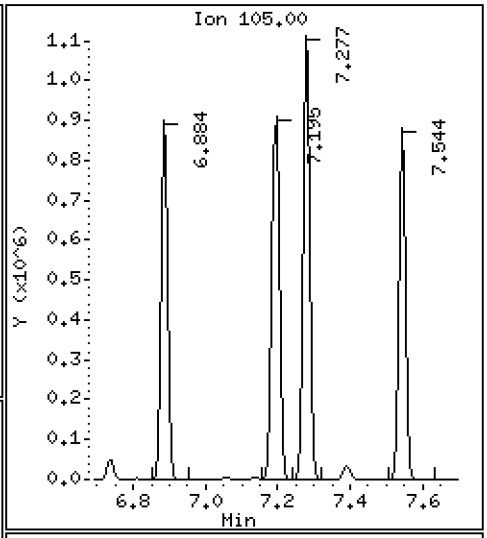
Sample Info: 1801;;1;2;4;;;

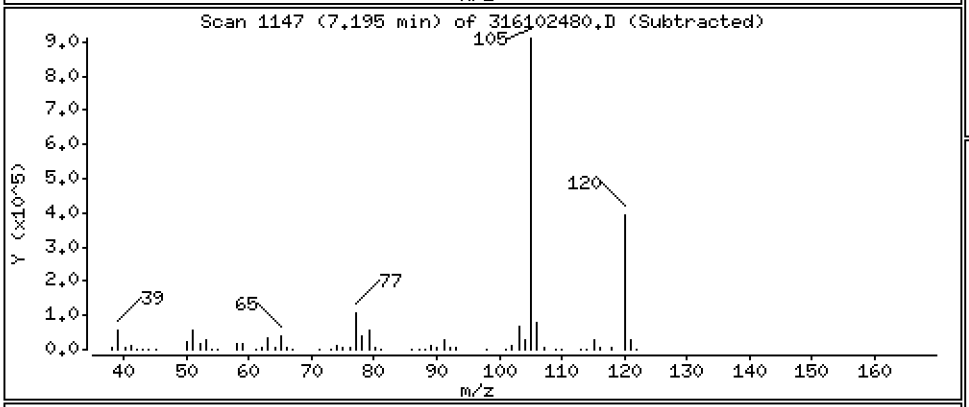
Purge Volume: 5.0 Operator: CJG

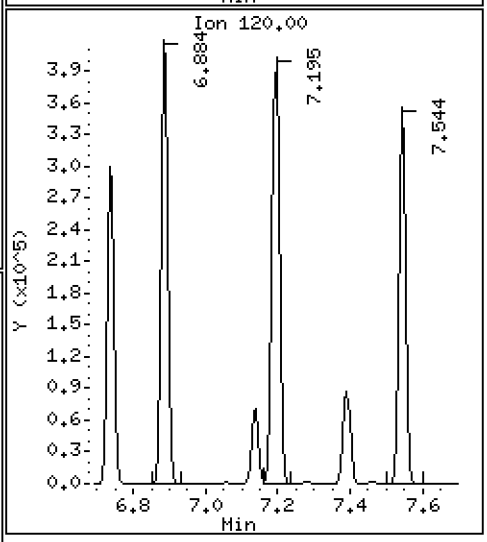
Column phase: DB-VRX Column diameter: 0.25

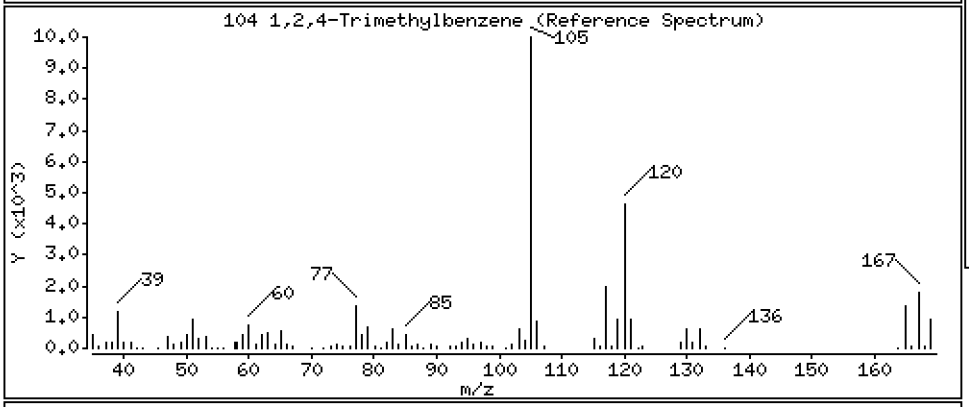
104 1,2,4-Trimethylbenzene Concentration: 49.4866 ug/L

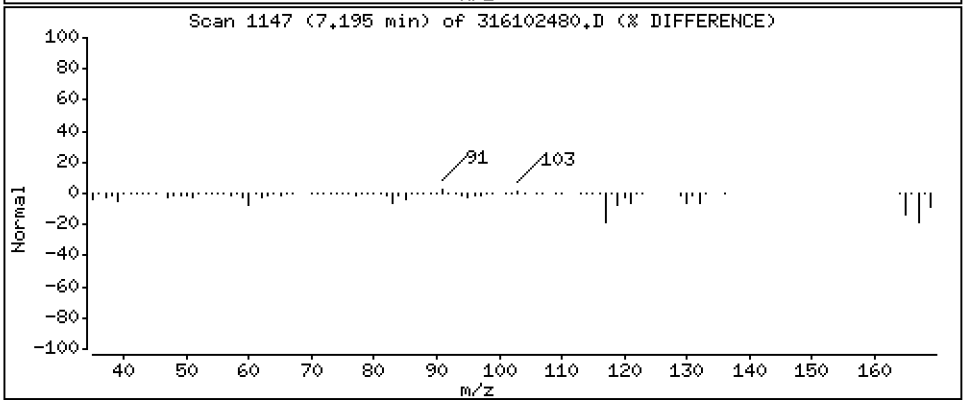












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 110

Date : 25-OCT-2016 09:17

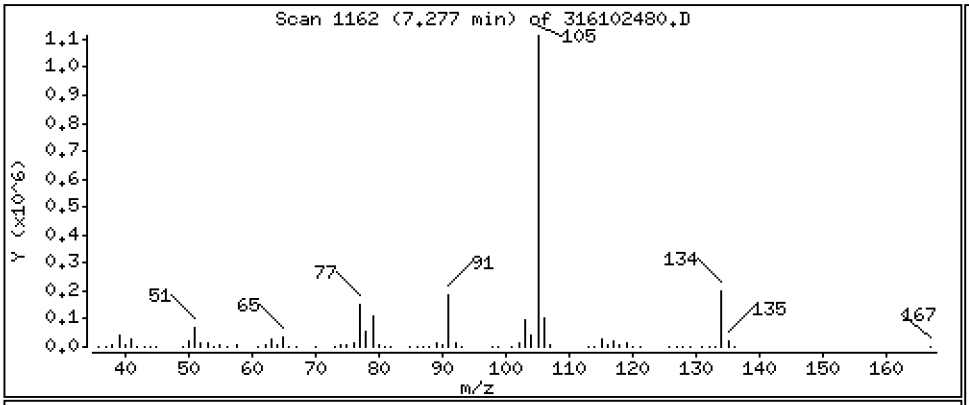
Client ID: Instrument: ms03.i

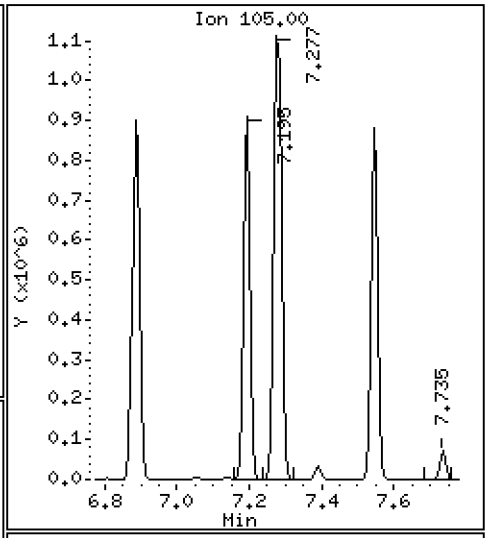
Sample Info: 1801;;1;2;4;;;

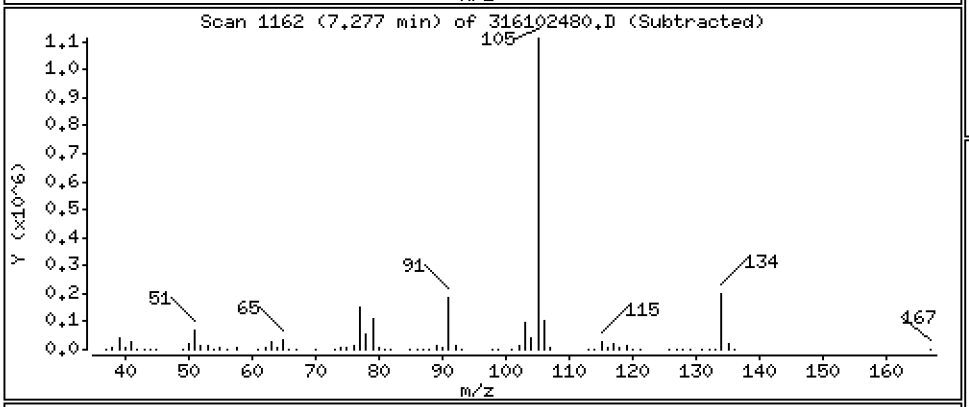
Purge Volume: 5.0 Operator: CJG

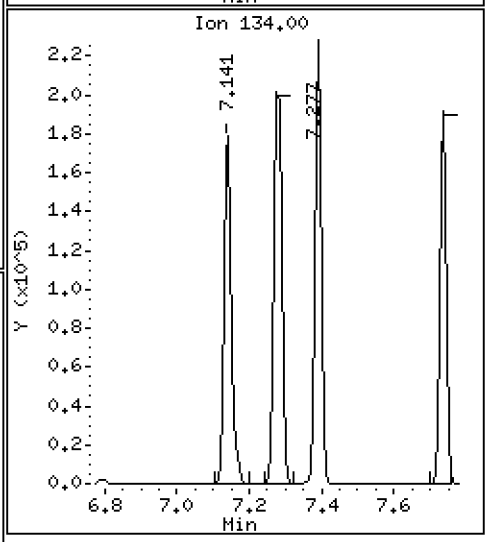
Column phase: DB-VRX Column diameter: 0.25

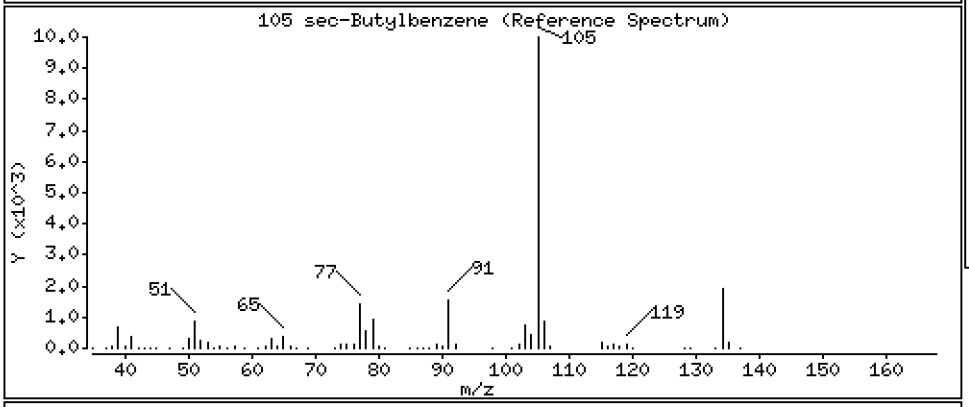
105 sec-Butylbenzene Concentration: 48.4686 ug/L

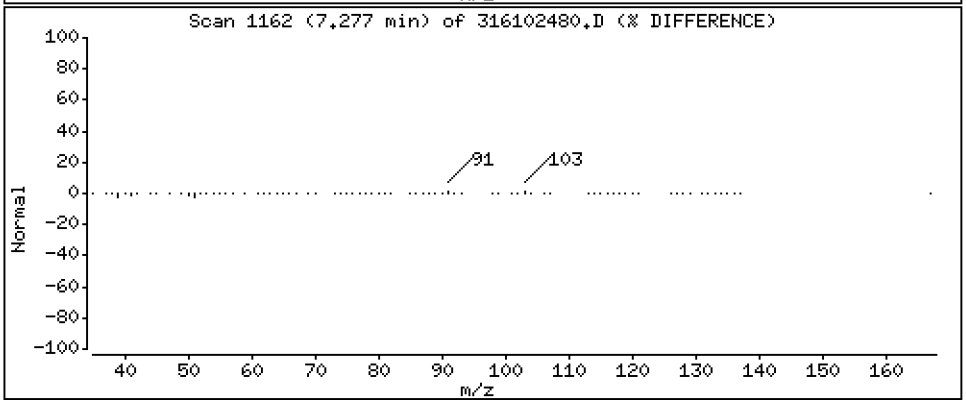












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 111

Date : 25-OCT-2016 09:17

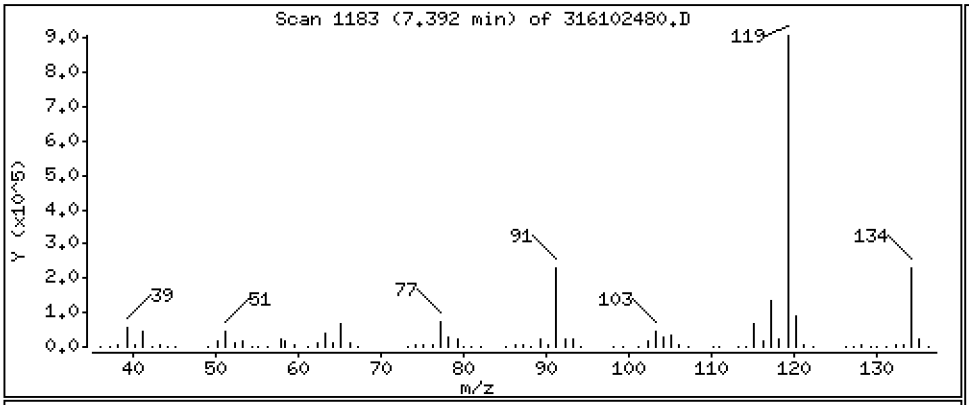
Client ID: Instrument: ms03.i

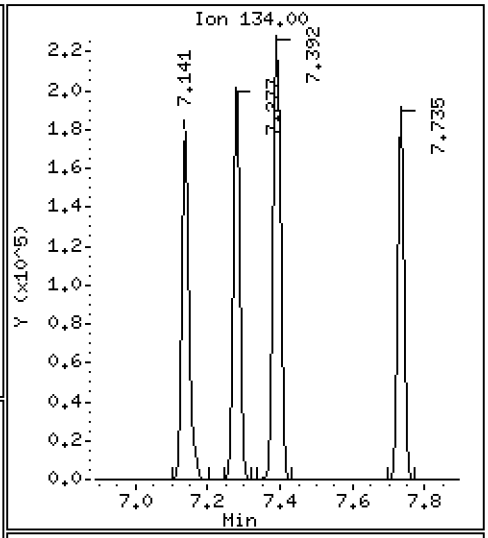
Sample Info: 1801;;1;2;4;;;

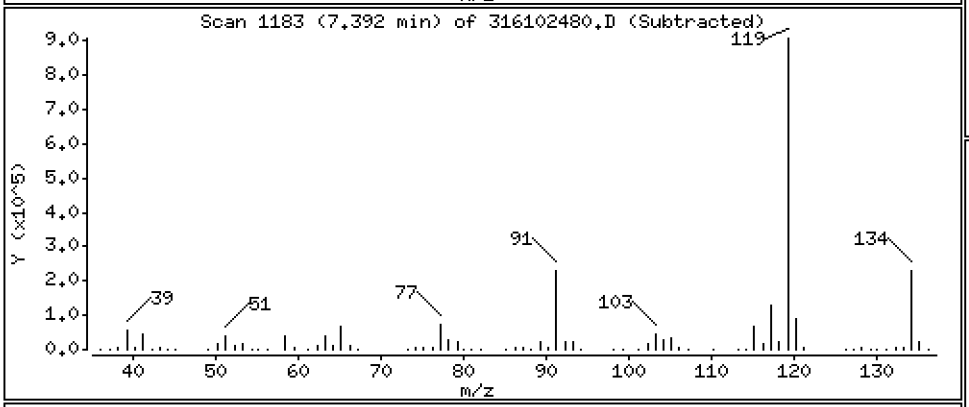
Purge Volume: 5.0 Operator: CJG

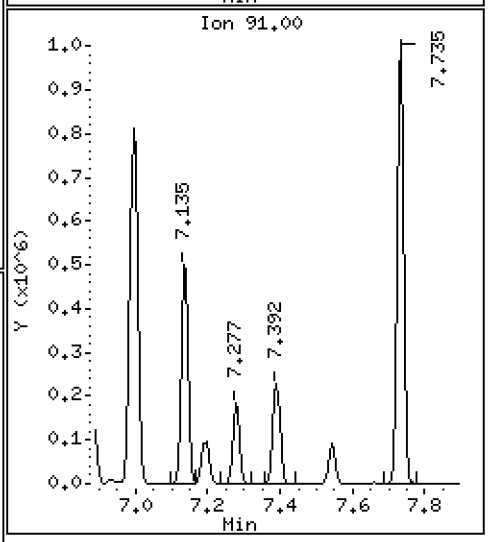
Column phase: DB-VRX Column diameter: 0.25

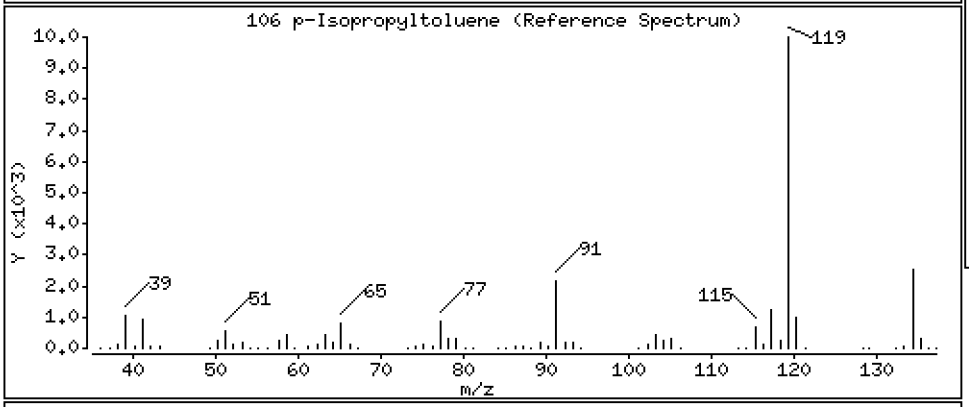
106 p-Isopropyltoluene Concentration: 49.4169 ug/L

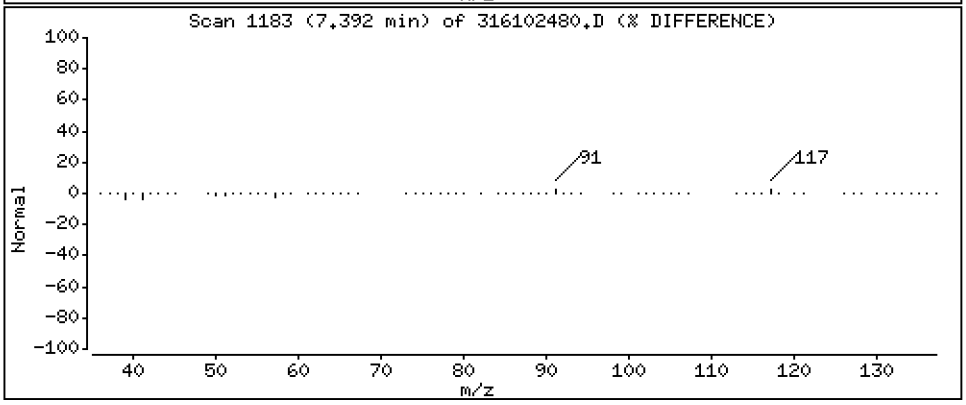












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 112

Date : 25-OCT-2016 09:17

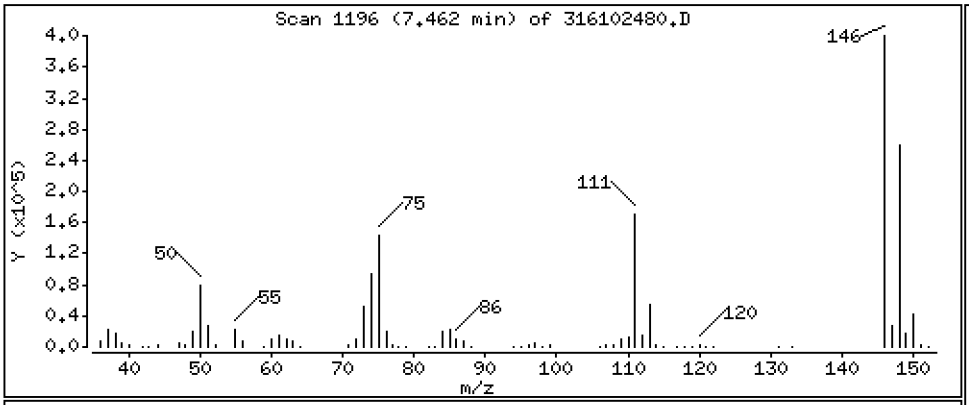
Client ID: Instrument: ms03.i

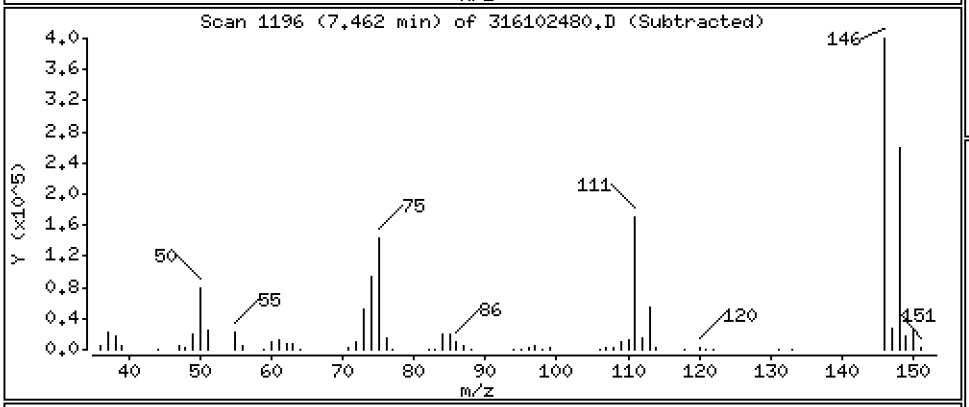
Sample Info: 1801;;1;2;4;;;

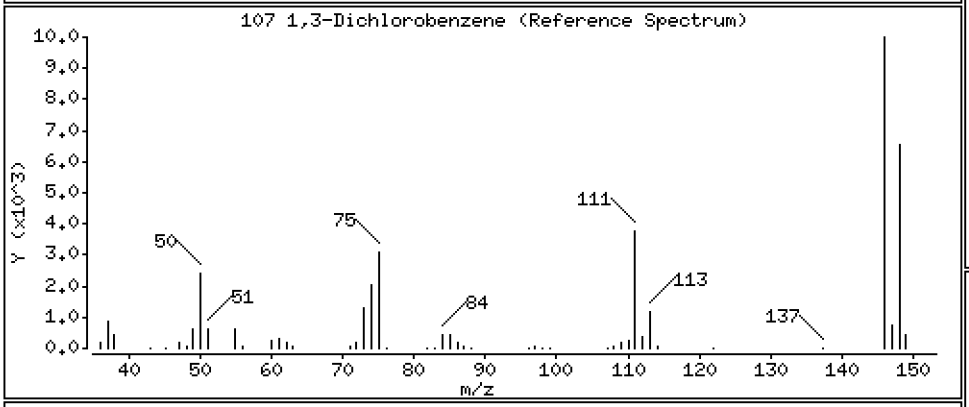
Purge Volume: 5.0 Operator: CJG

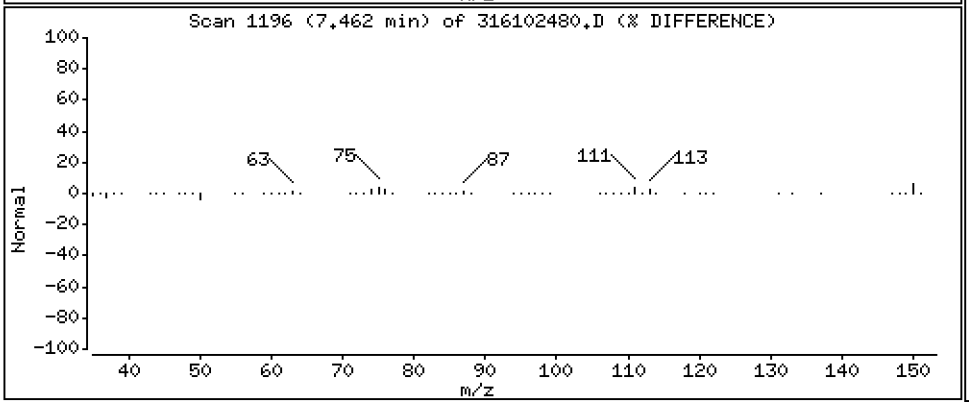
Column phase: DB-VRX Column diameter: 0.25

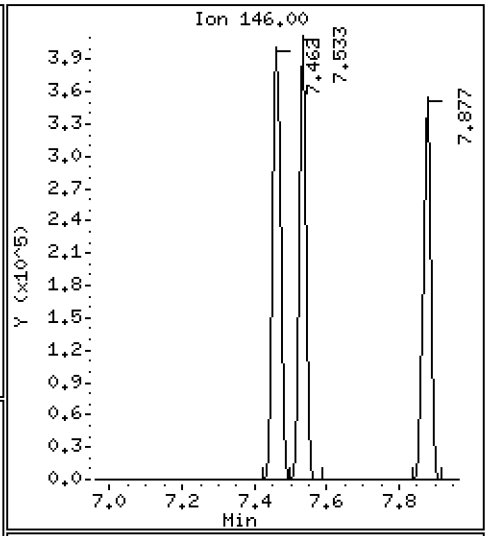
107 1,3-Dichlorobenzene Concentration: 48.0636 ug/L

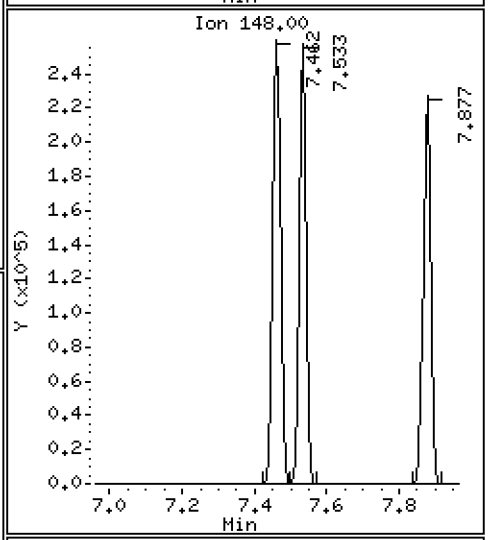


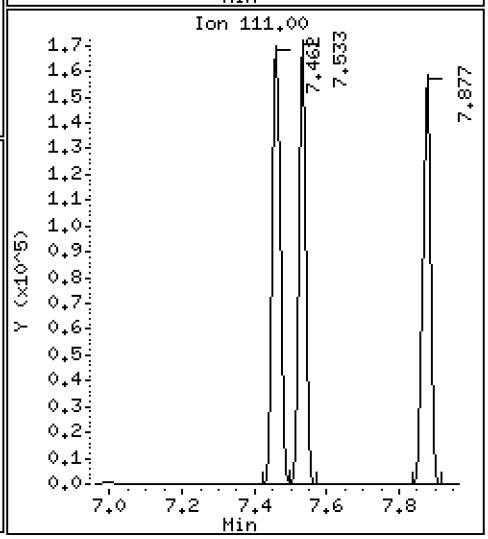












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 113

Date : 25-OCT-2016 09:17

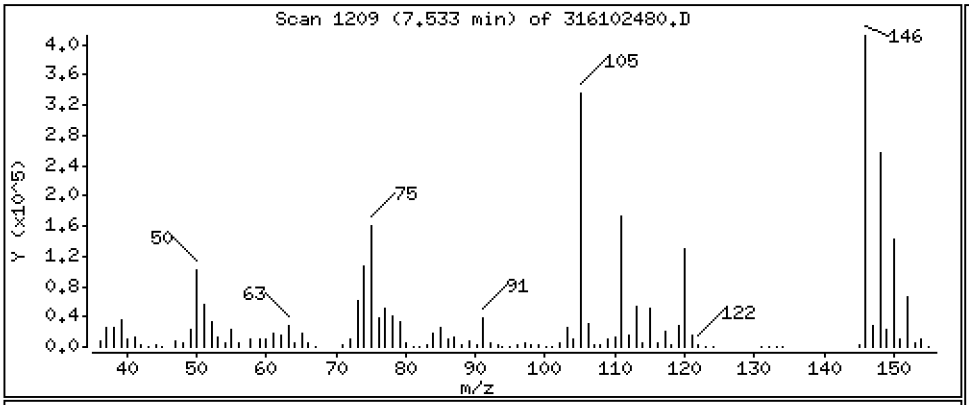
Client ID: Instrument: ms03.i

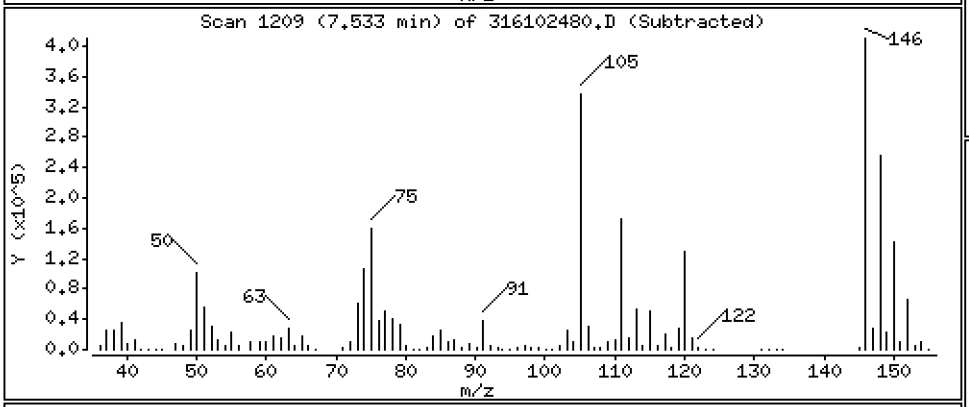
Sample Info: 1801;;1;2;4;;;

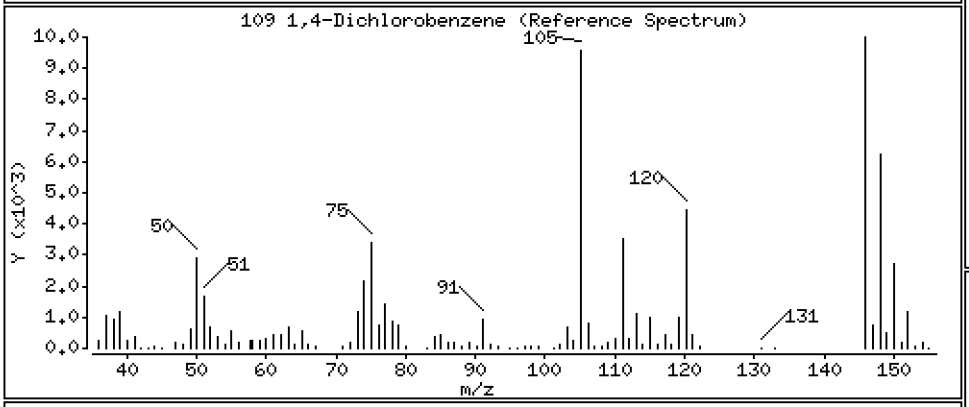
Purge Volume: 5.0 Operator: CJG

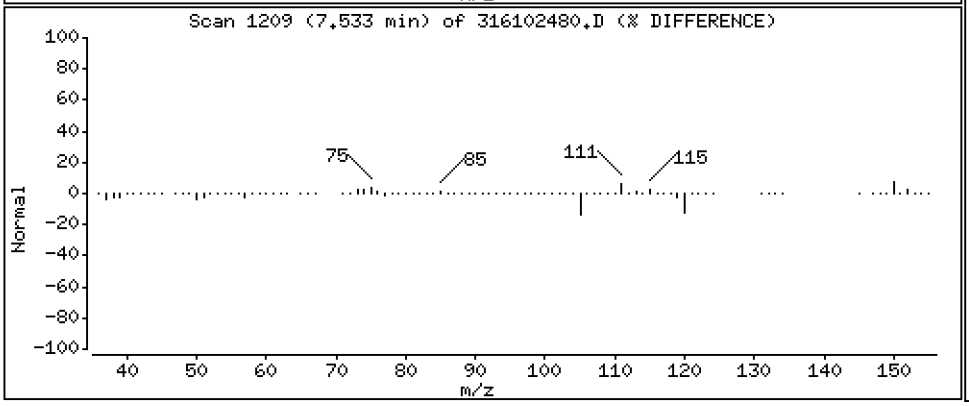
Column phase: DB-VRX Column diameter: 0.25

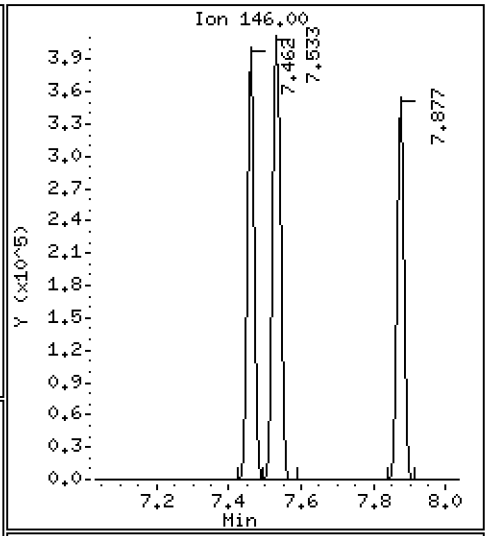
109 1,4-Dichlorobenzene Concentration: 48.1247 ug/L

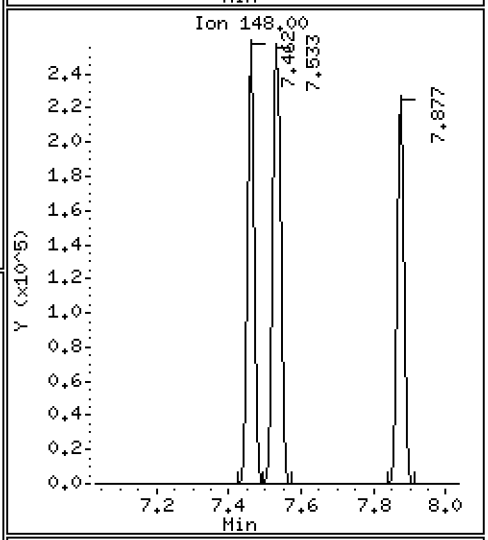


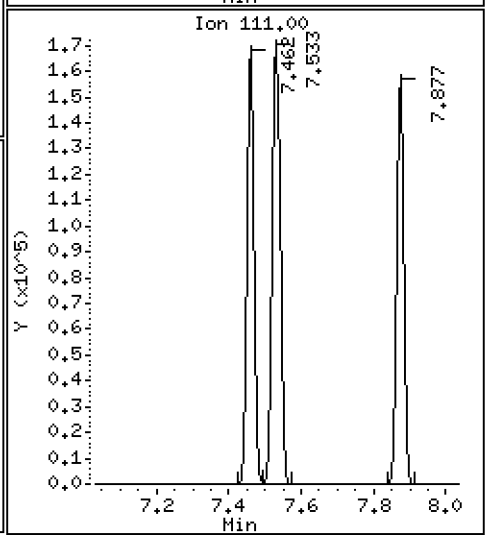












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 114

Date : 25-OCT-2016 09:17

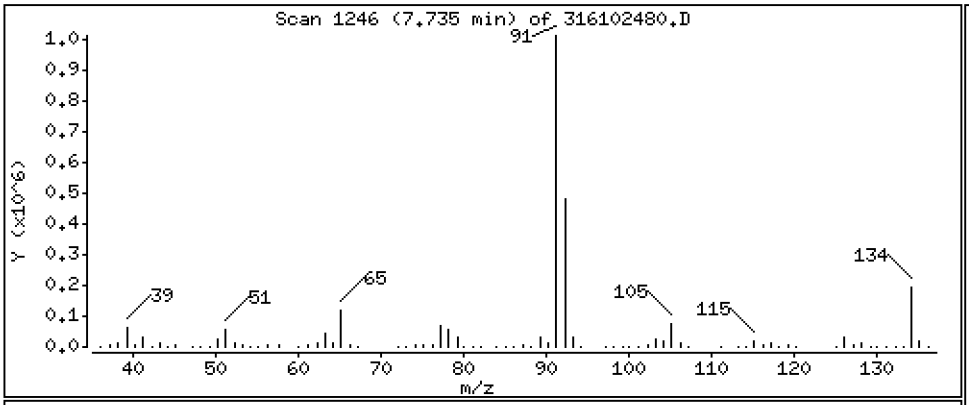
Client ID: Instrument: ms03.i

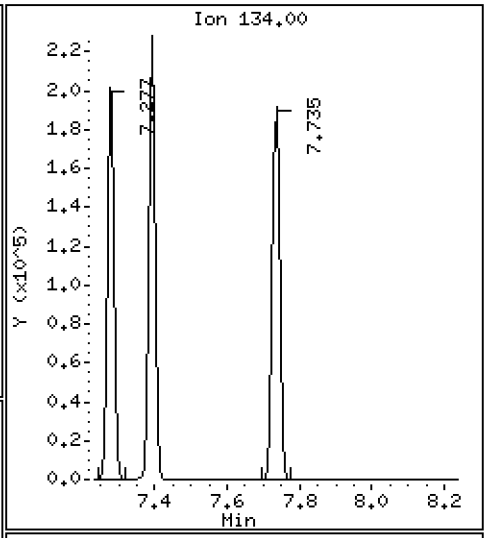
Sample Info: 1801;;1;2;4;;;

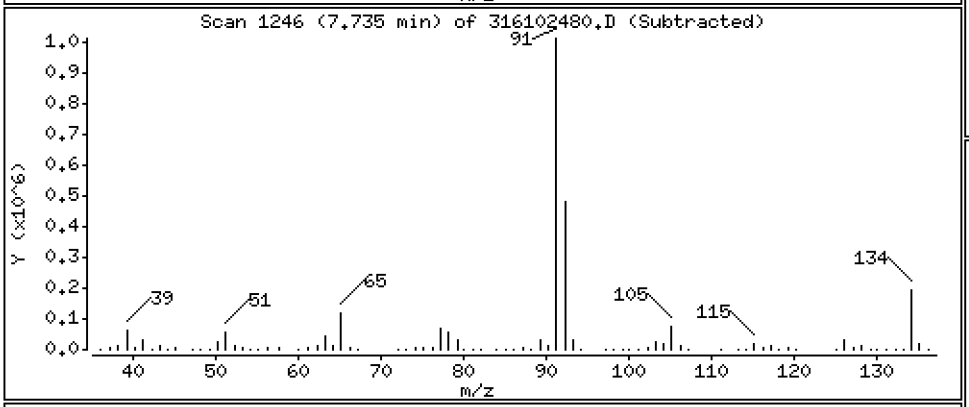
Purge Volume: 5.0 Operator: CJG

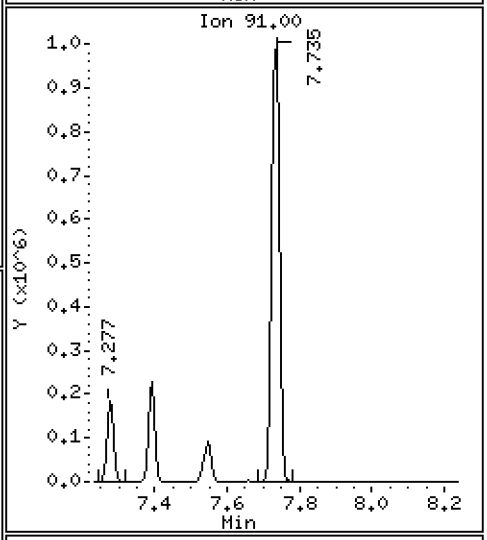
Column phase: DB-VRX Column diameter: 0.25

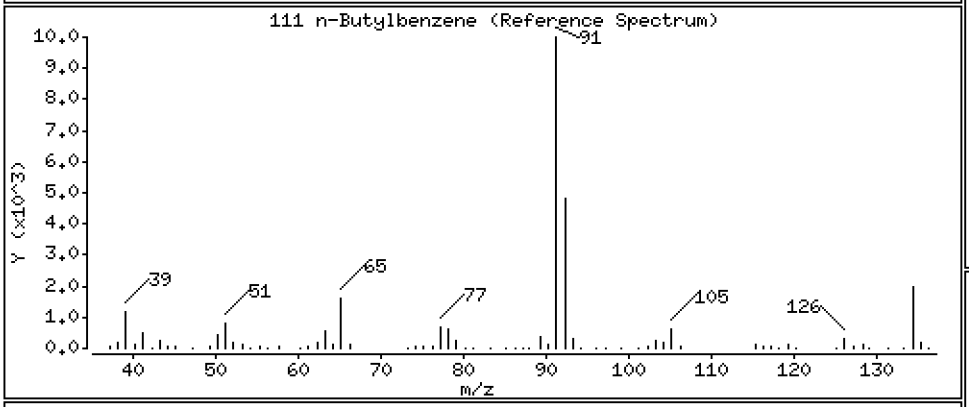
111 n-Butylbenzene Concentration: 47.4542 ug/L

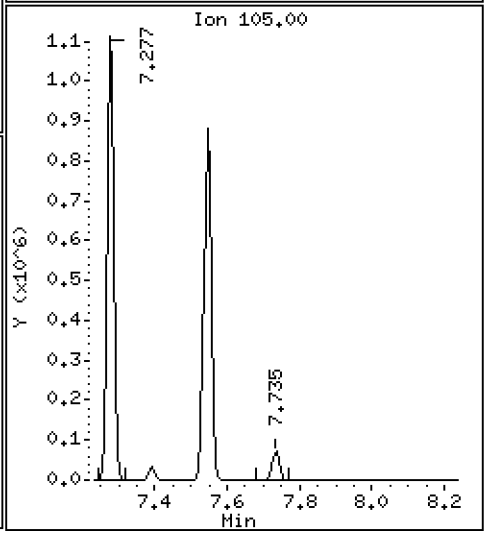


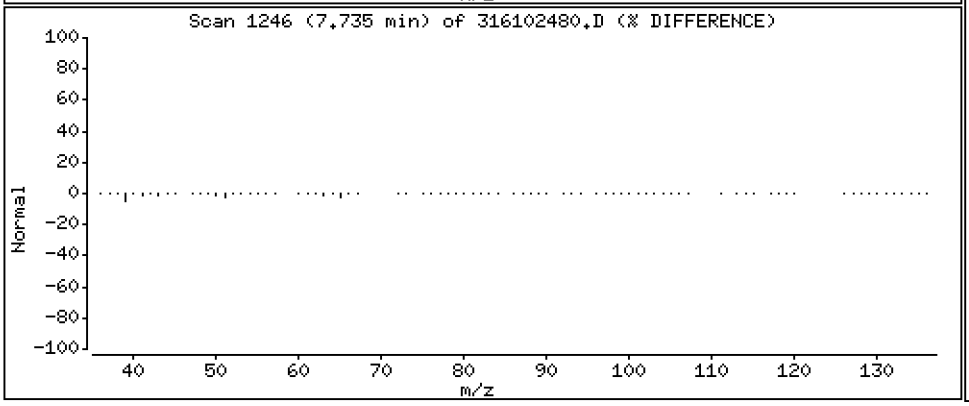












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 115

Date : 25-OCT-2016 09:17

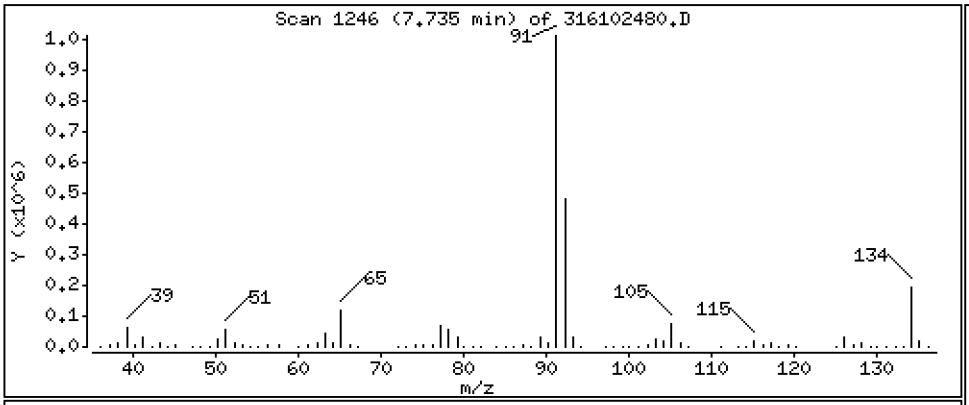
Client ID: Instrument: ms03.i

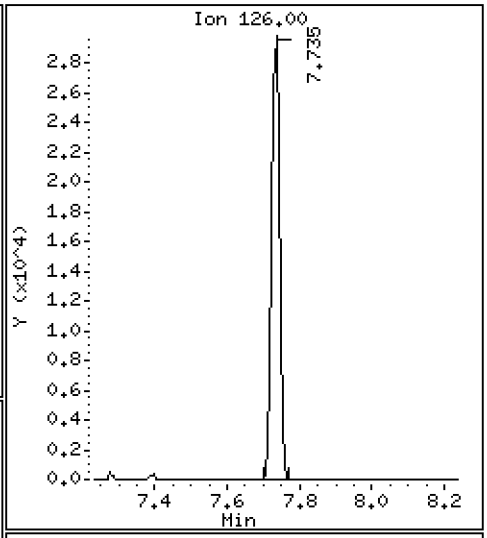
Sample Info: 1801;;1;2;4;;;

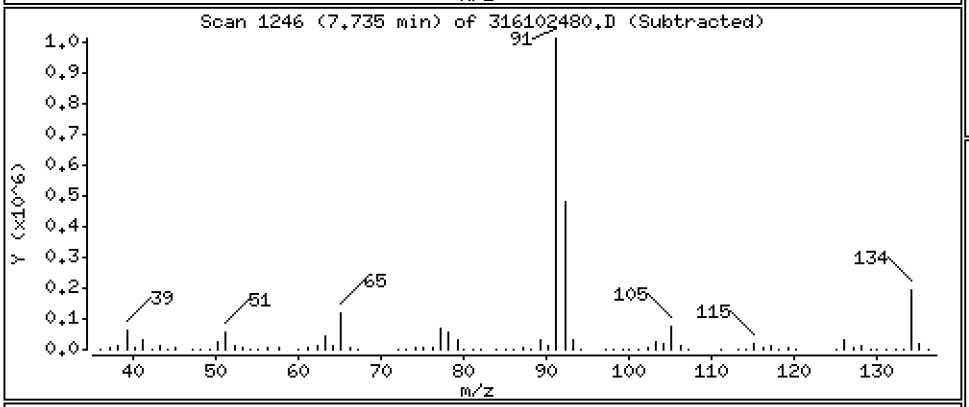
Purge Volume: 5.0 Operator: CJG

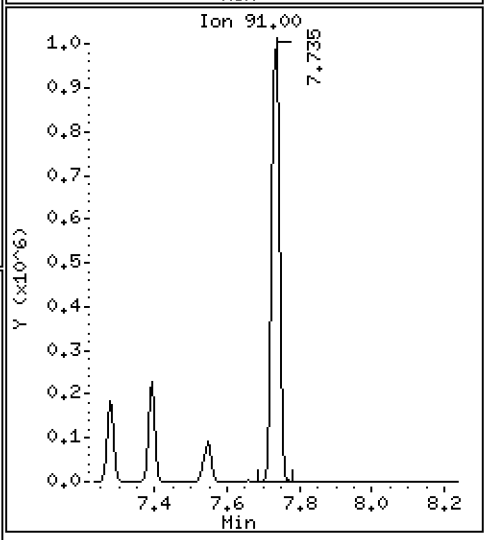
Column phase: DB-VRX Column diameter: 0.25

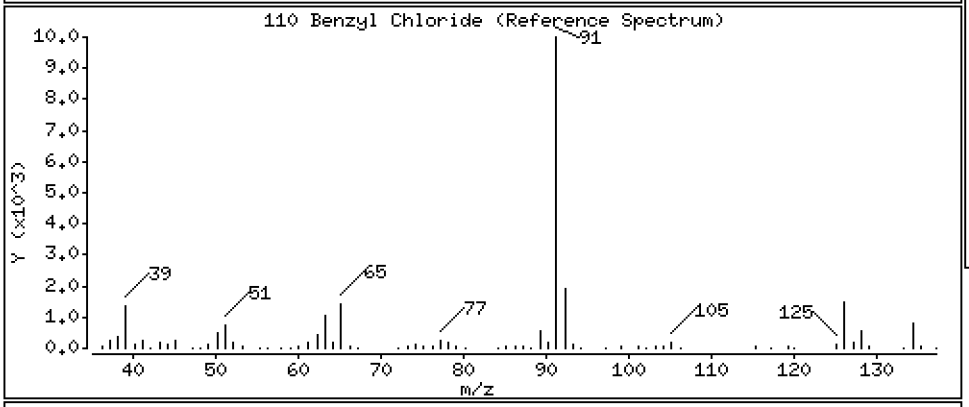
110 Benzyl Chloride Concentration: 26.7826 ug/L

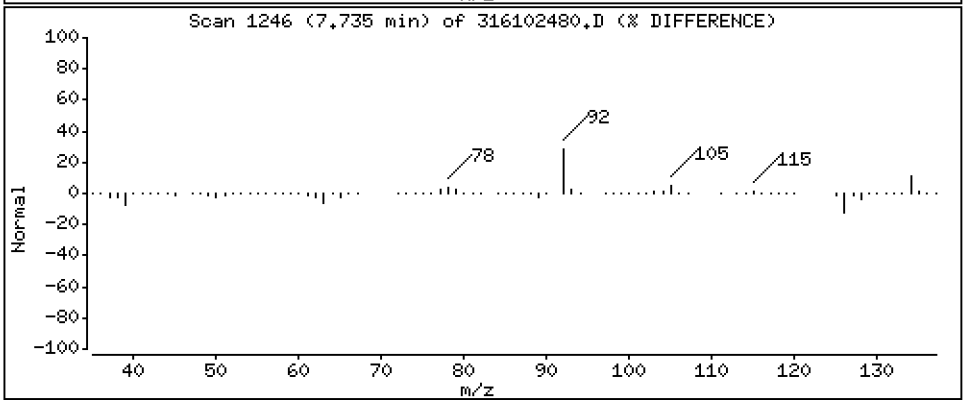












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 116

Date : 25-OCT-2016 09:17

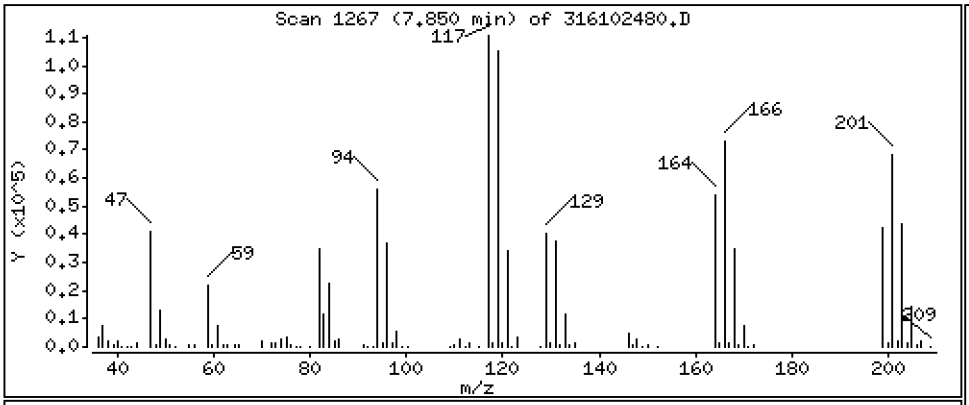
Client ID: Instrument: ms03.i

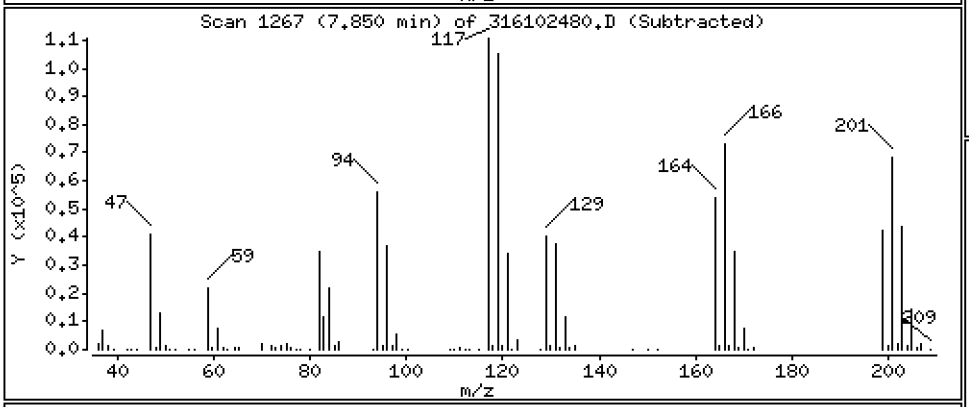
Sample Info: 1801;;1;2;4;;;

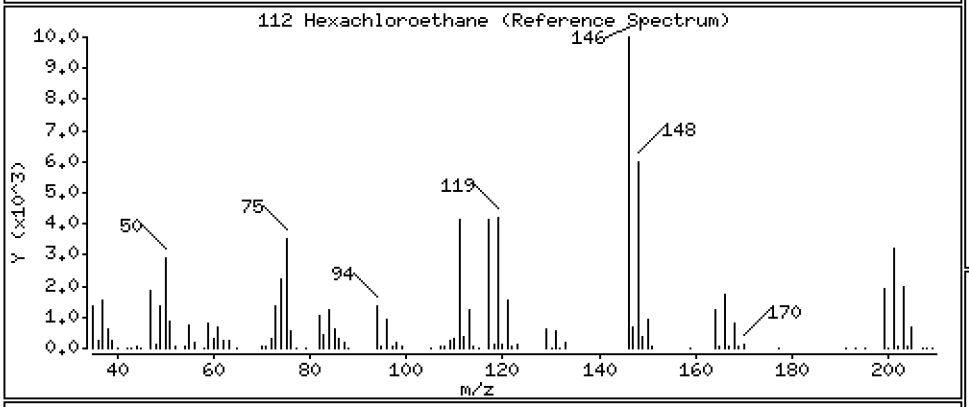
Purge Volume: 5.0 Operator: CJG

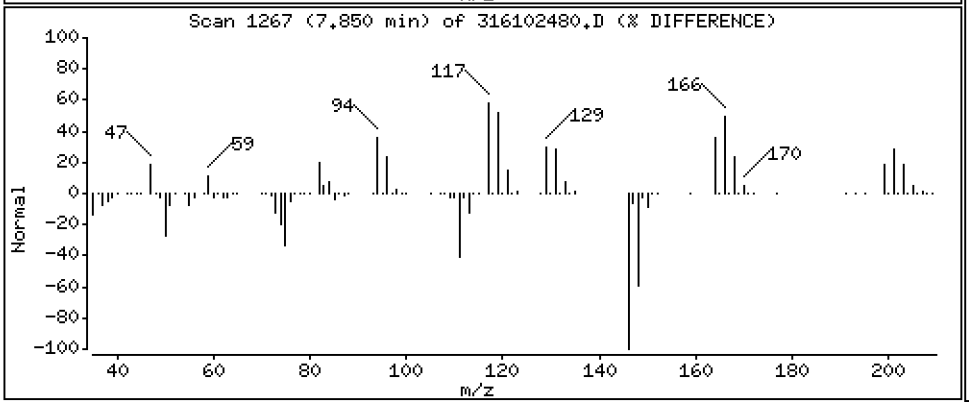
Column phase: DB-VRX Column diameter: 0.25

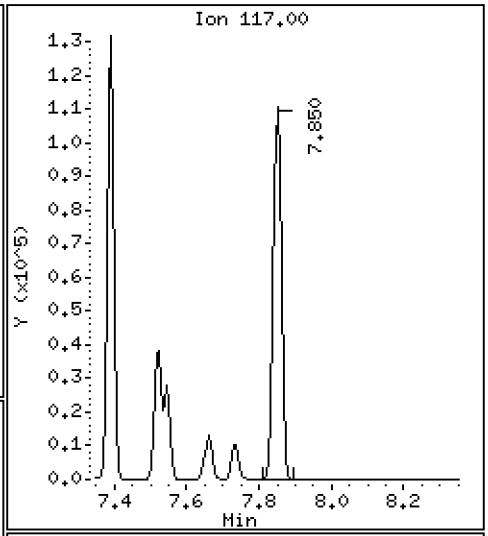
112 Hexachloroethane Concentration: 44.0800 ug/L

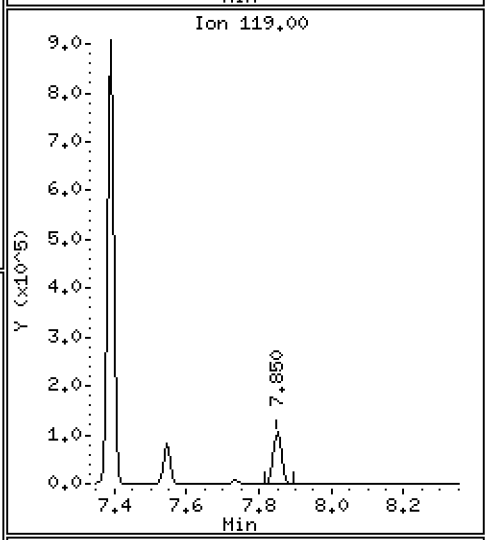


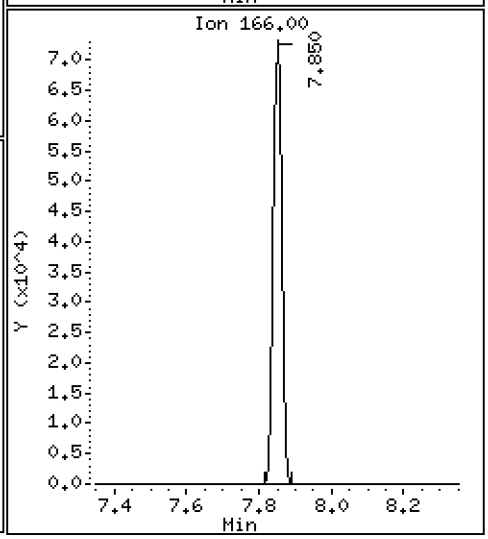












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 117

Date : 25-OCT-2016 09:17

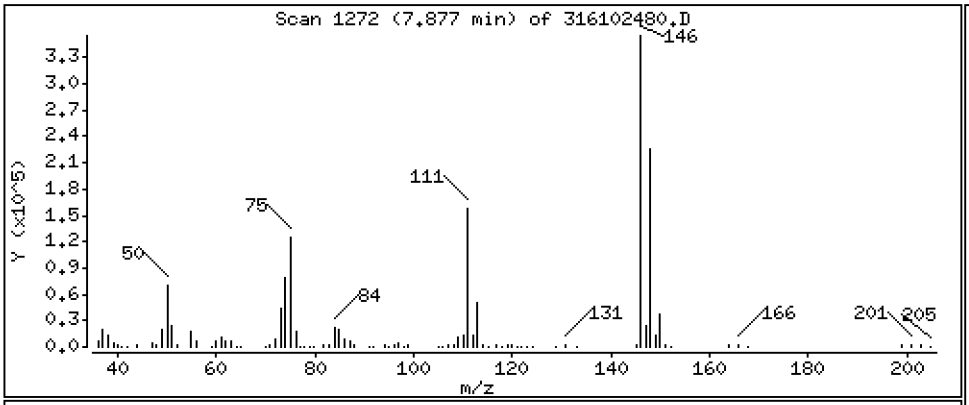
Client ID: Instrument: ms03.i

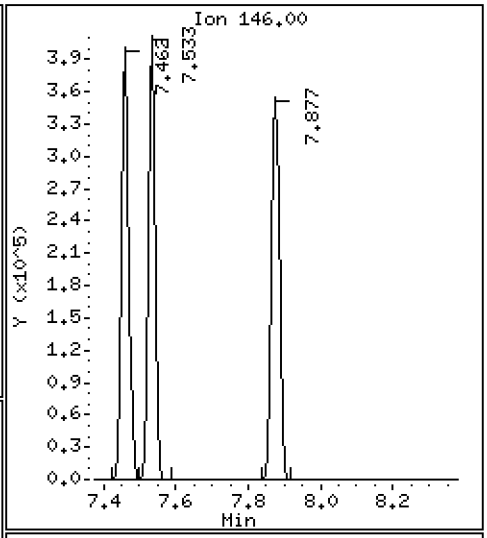
Sample Info: 1801;;1;2;4;;;

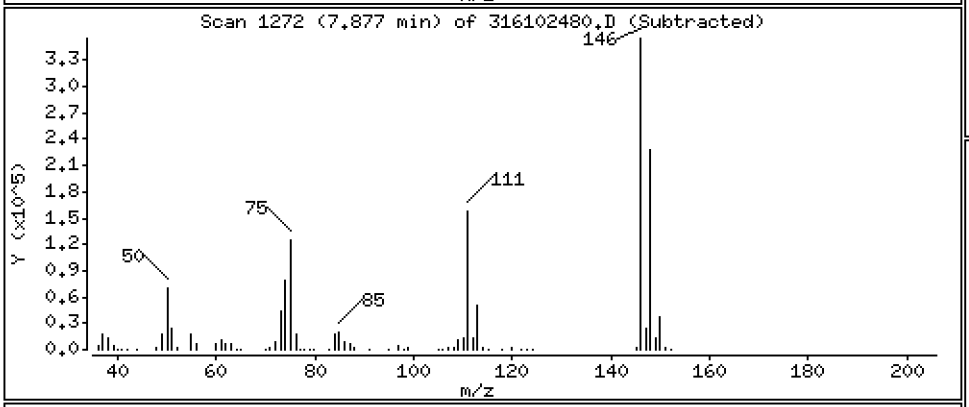
Purge Volume: 5.0 Operator: CJG

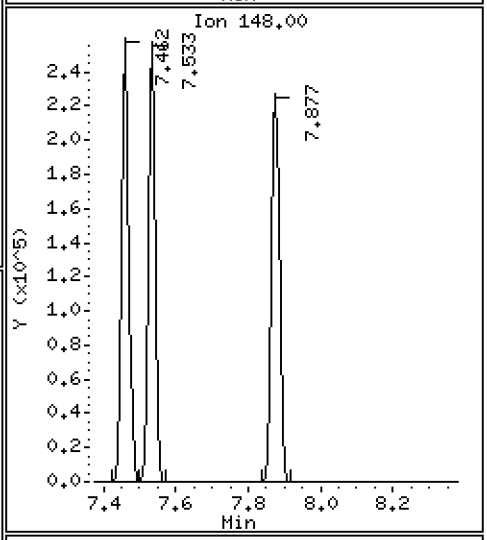
Column phase: DB-VRX Column diameter: 0.25

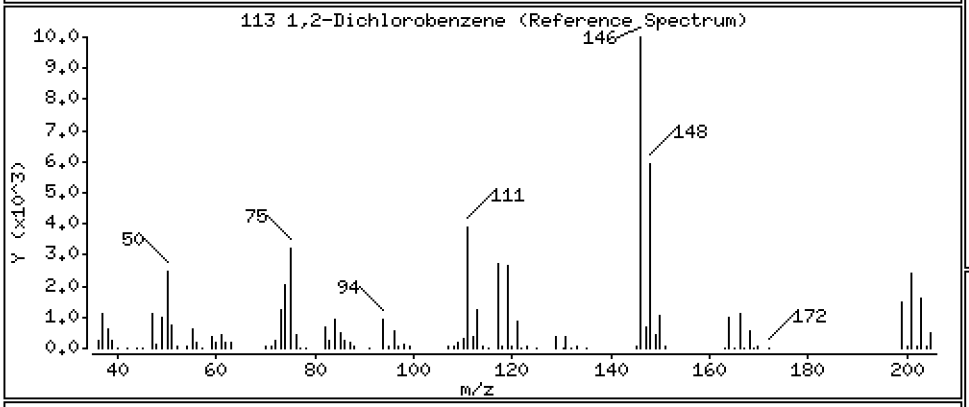
113 1,2-Dichlorobenzene Concentration: 47.8411 ug/L

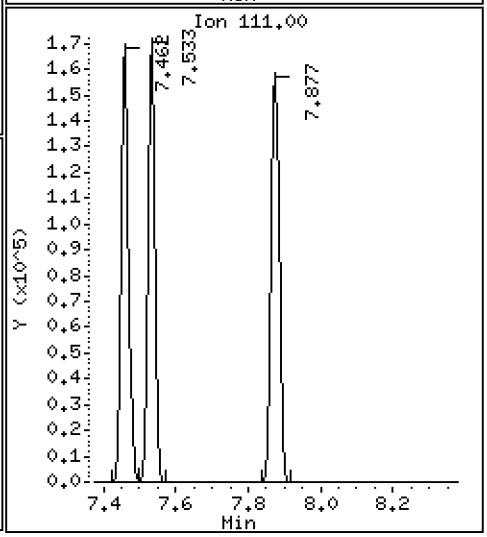


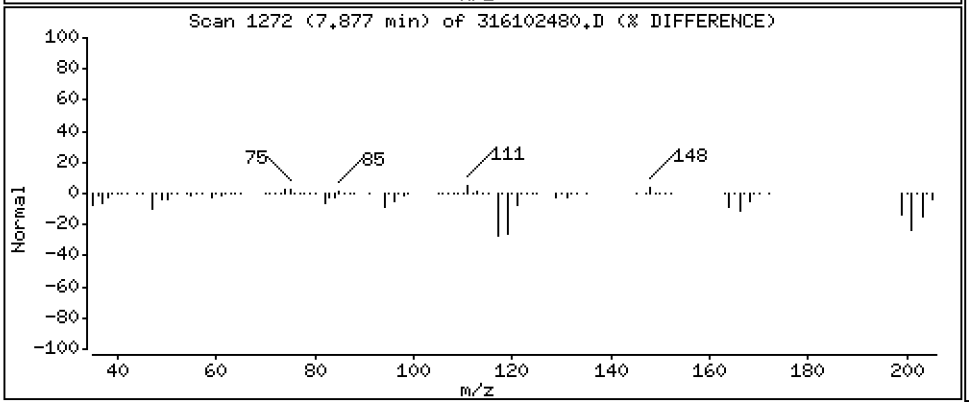












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 118

Date : 25-OCT-2016 09:17

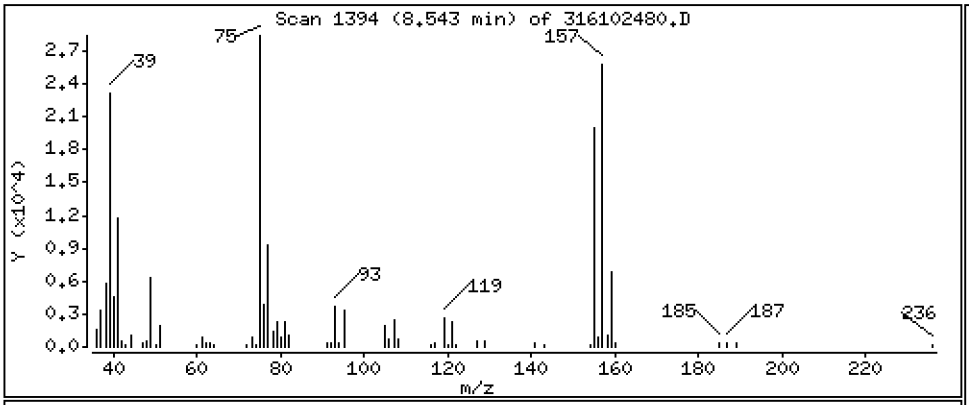
Client ID: Instrument: ms03.i

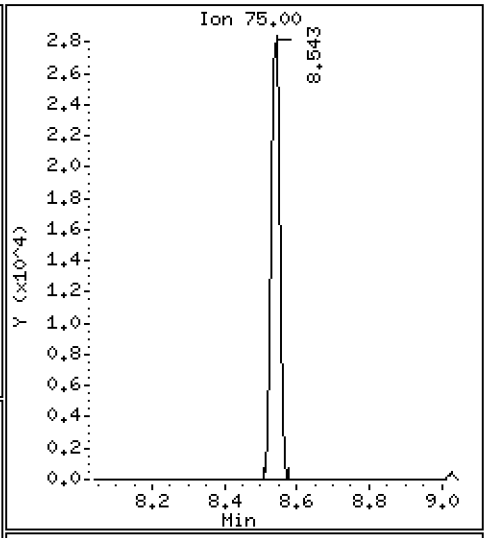
Sample Info: 1801;;1;2;4;;;

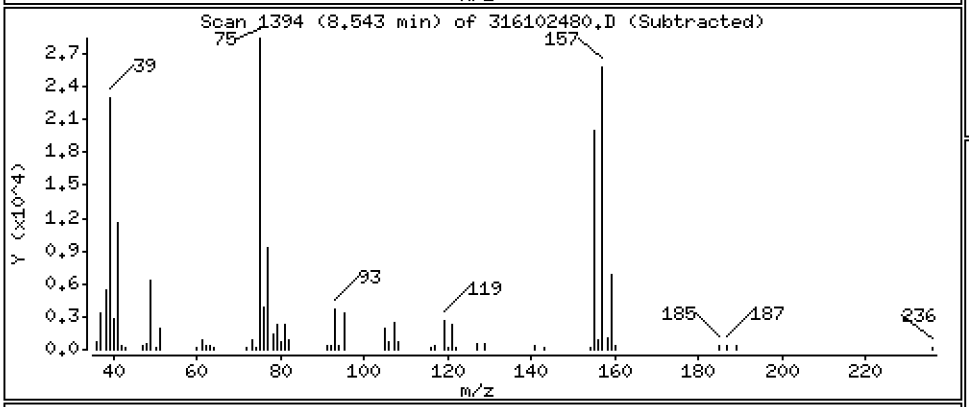
Purge Volume: 5.0 Operator: CJG

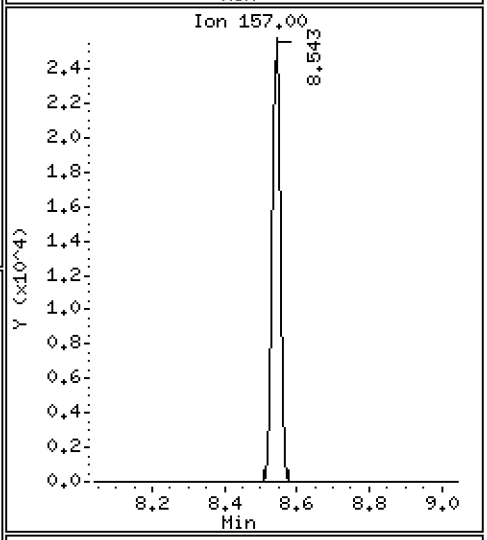
Column phase: DB-VRX Column diameter: 0.25

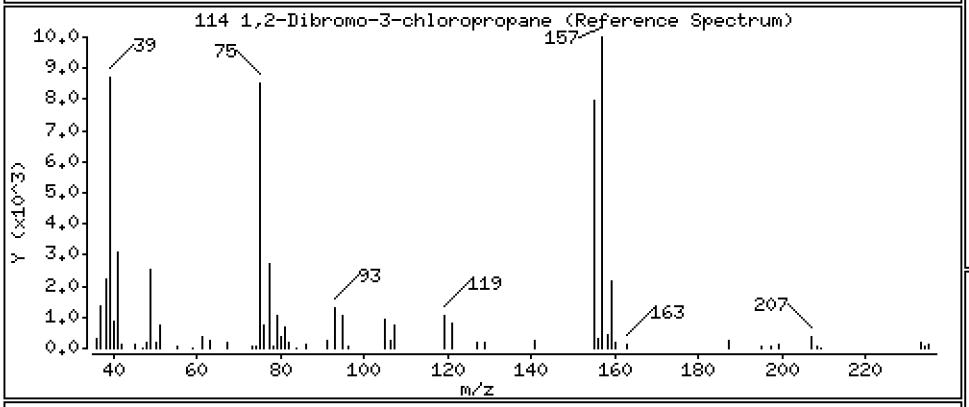
114 1,2-Dibromo-3-chloropropane Concentration: 47.7446 ug/L

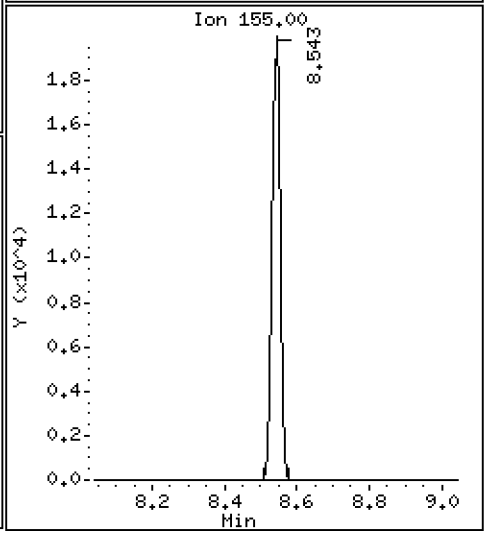


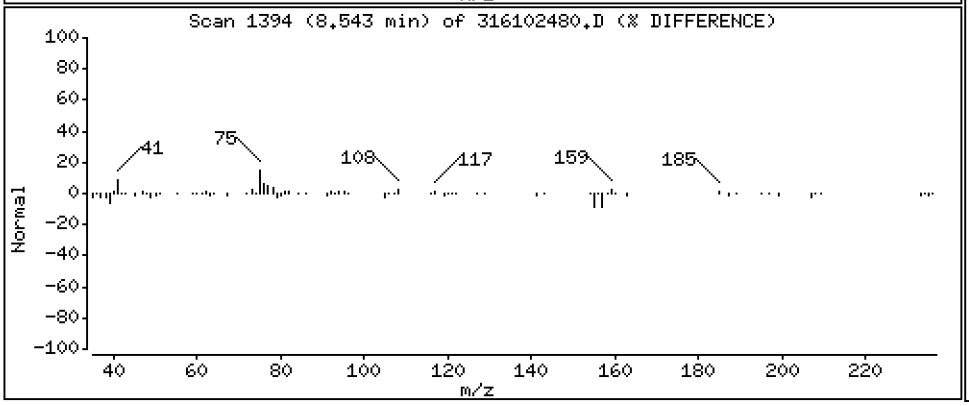












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 119

Date : 25-OCT-2016 09:17

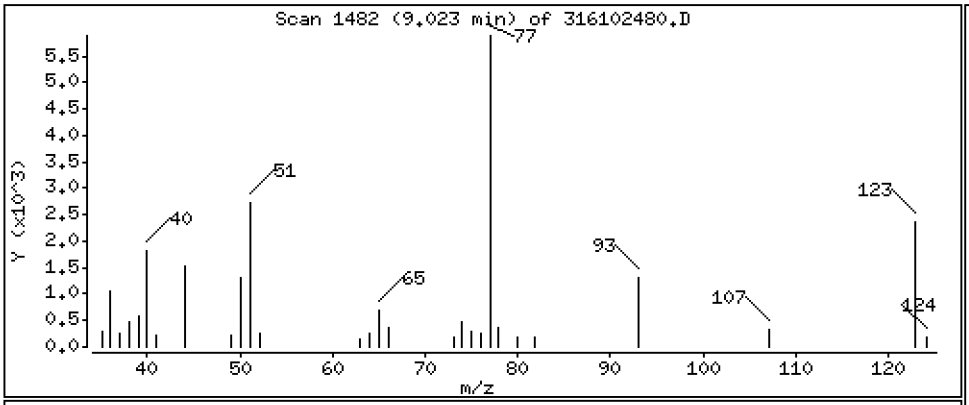
Client ID: Instrument: ms03.i

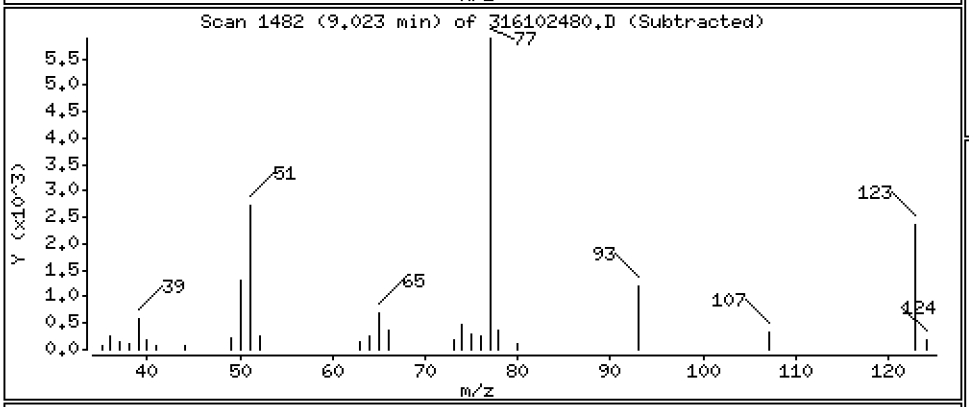
Sample Info: 1801;;1;2;4;;;

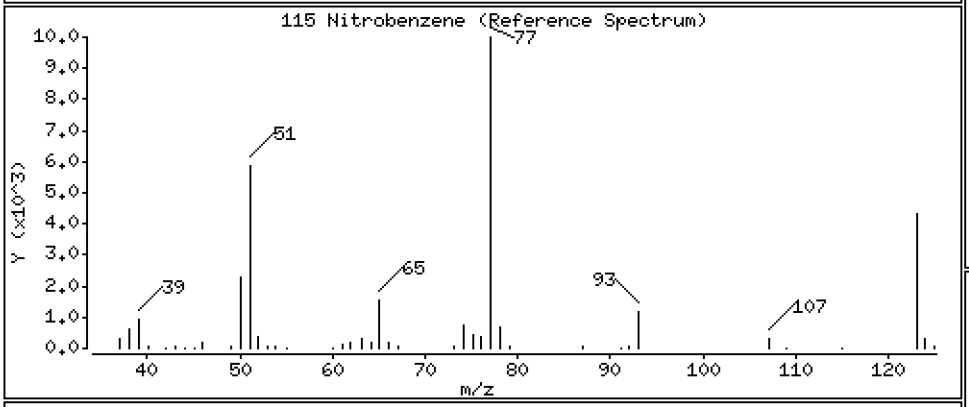
Purge Volume: 5.0 Operator: CJG

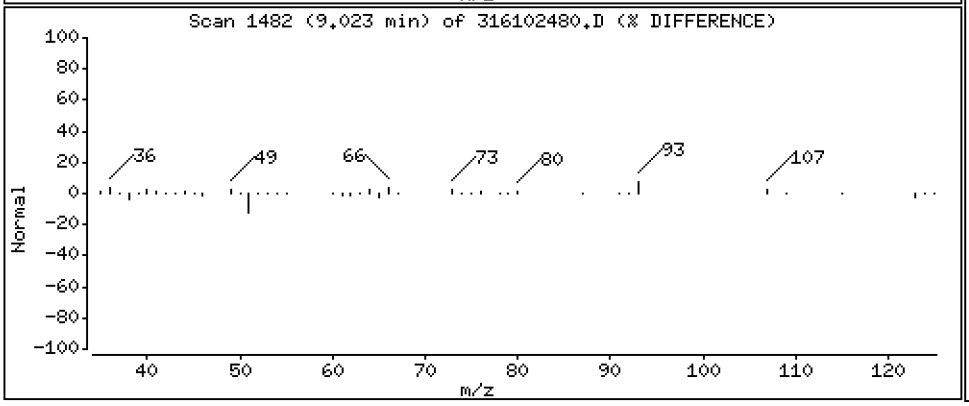
Column phase: DB-VRX Column diameter: 0.25

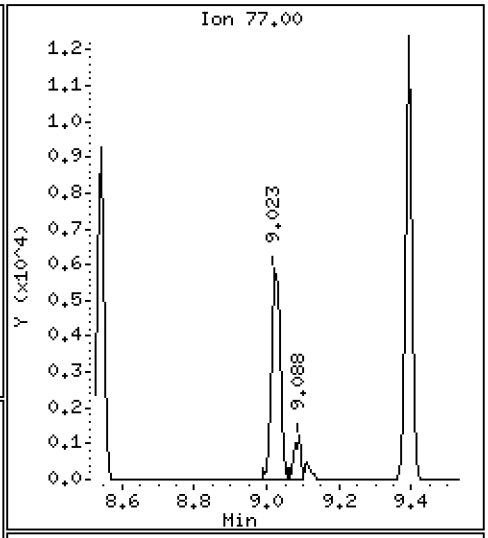
115 Nitrobenzene Concentration: 305.340 ug/L

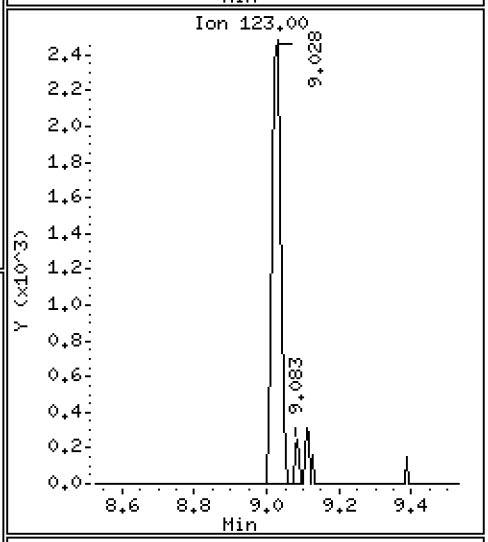


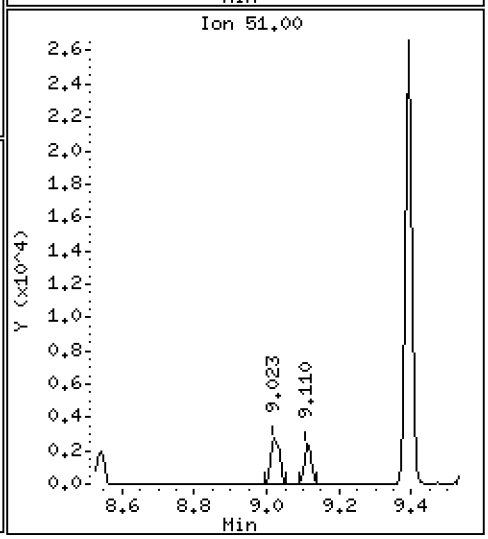












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 120

Date : 25-OCT-2016 09:17

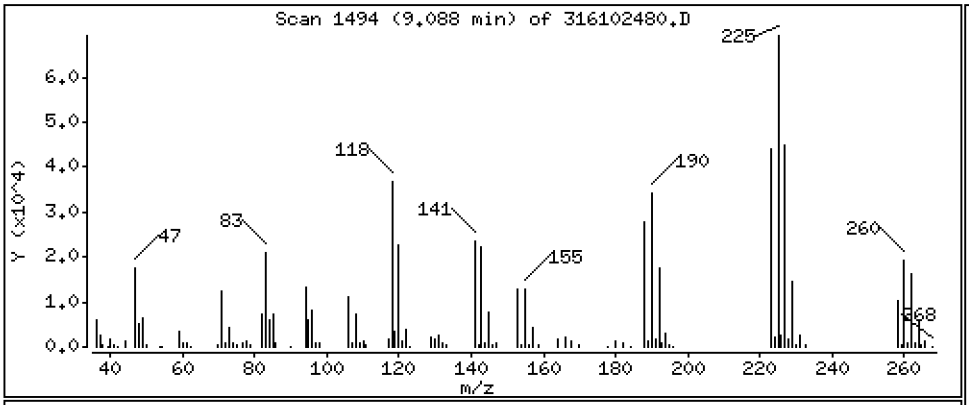
Client ID: Instrument: ms03.i

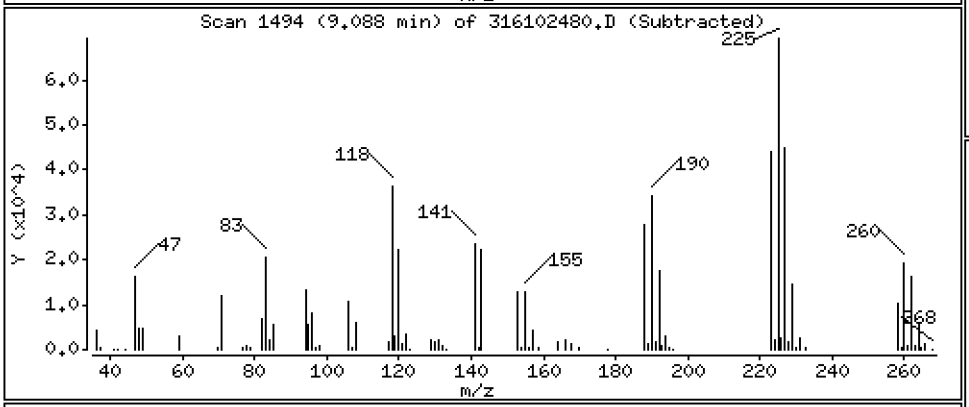
Sample Info: 1801;;1;2;4;;;

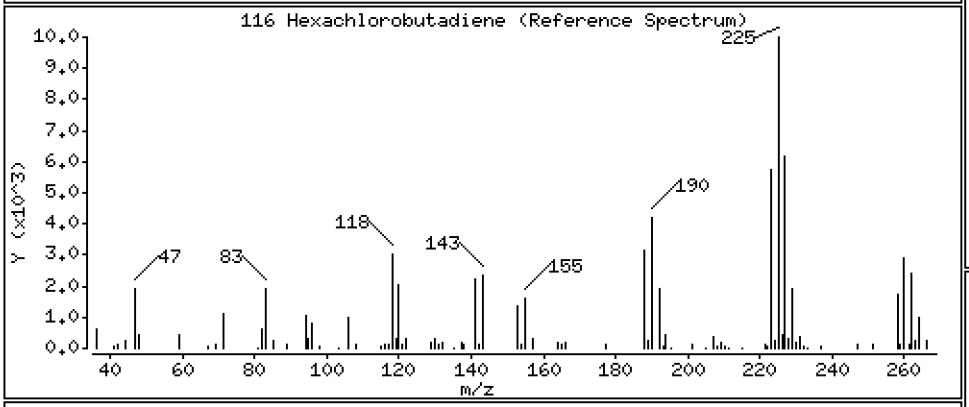
Purge Volume: 5.0 Operator: CJG

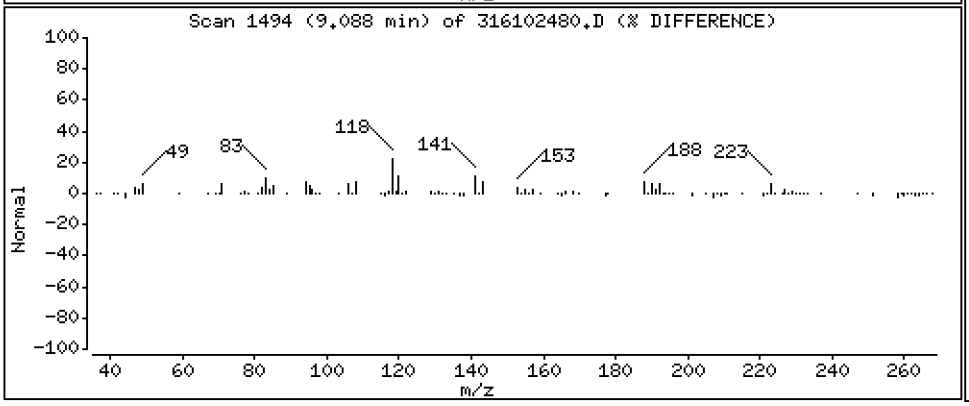
Column phase: DB-VRX Column diameter: 0.25

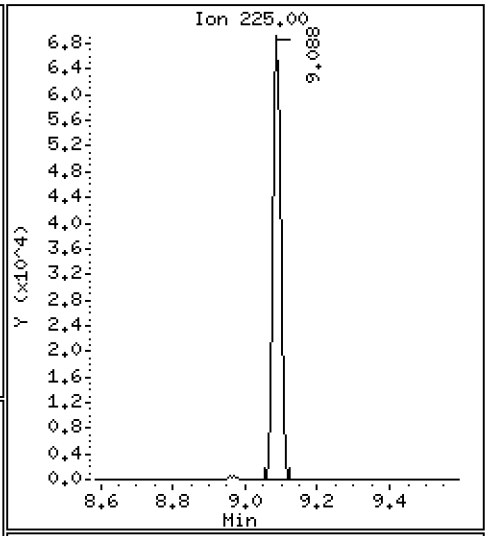
116 Hexachlorobutadiene Concentration: 47.1264 ug/L

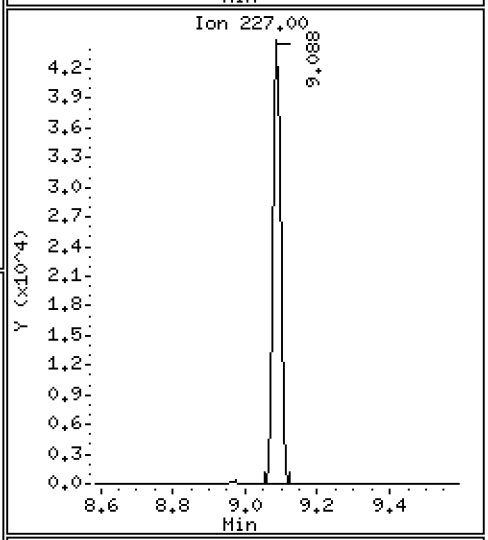


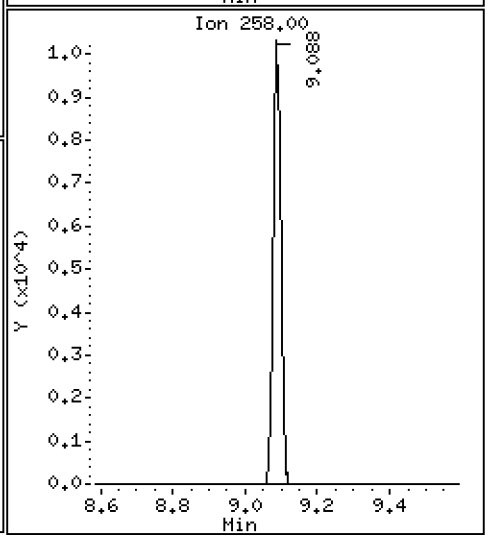












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 121

Date : 25-OCT-2016 09:17

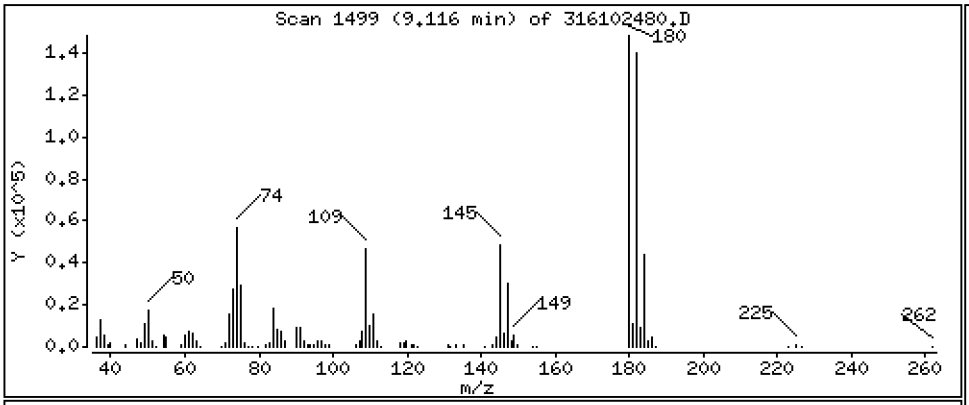
Client ID: Instrument: ms03.i

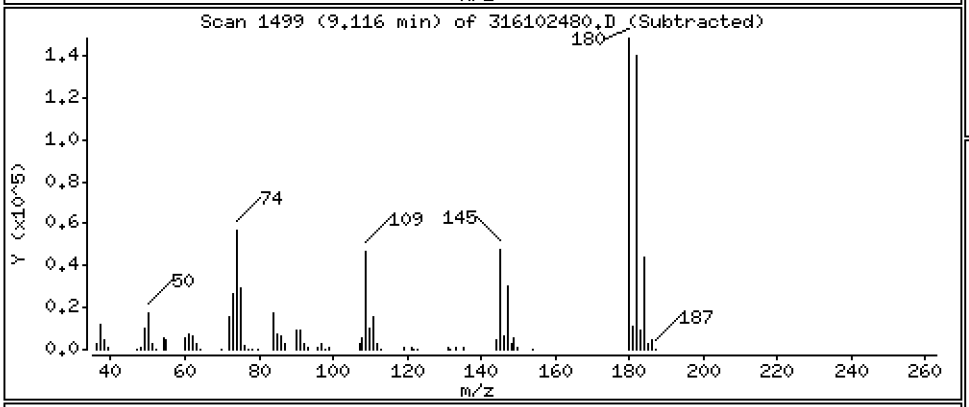
Sample Info: 1801;;1;2;4;;;

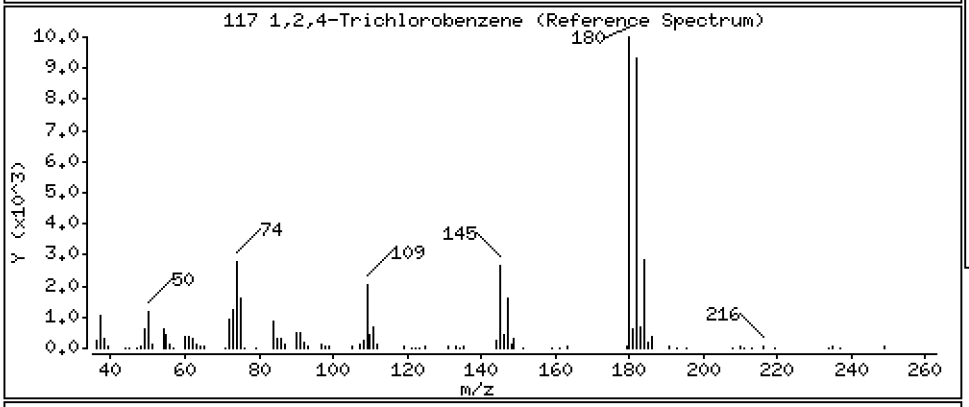
Purge Volume: 5.0 Operator: CJG

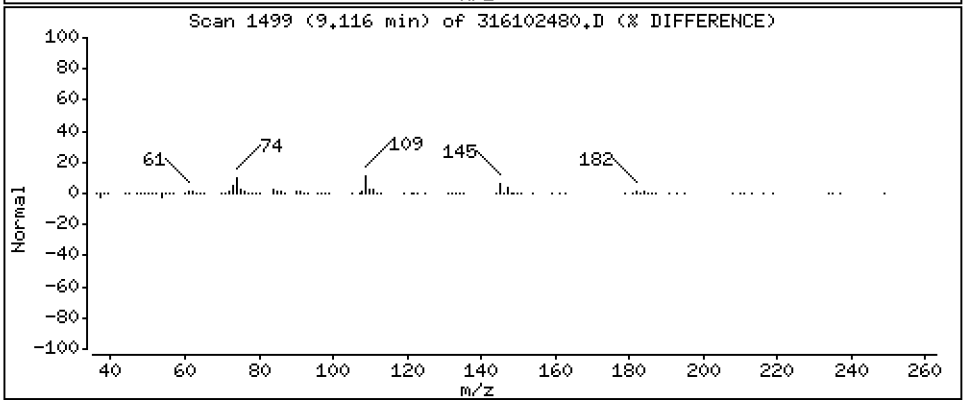
Column phase: DB-VRX Column diameter: 0.25

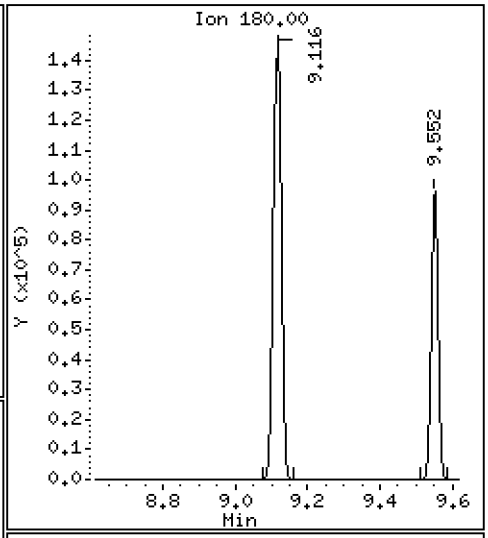
117 1,2,4-Trichlorobenzene Concentration: 45.8233 ug/L

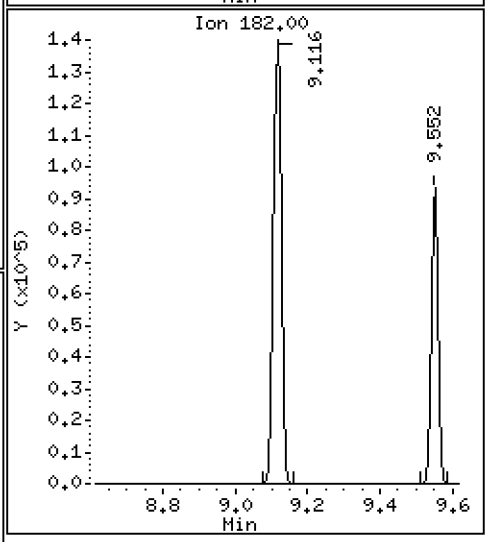












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 122

Date : 25-OCT-2016 09:17

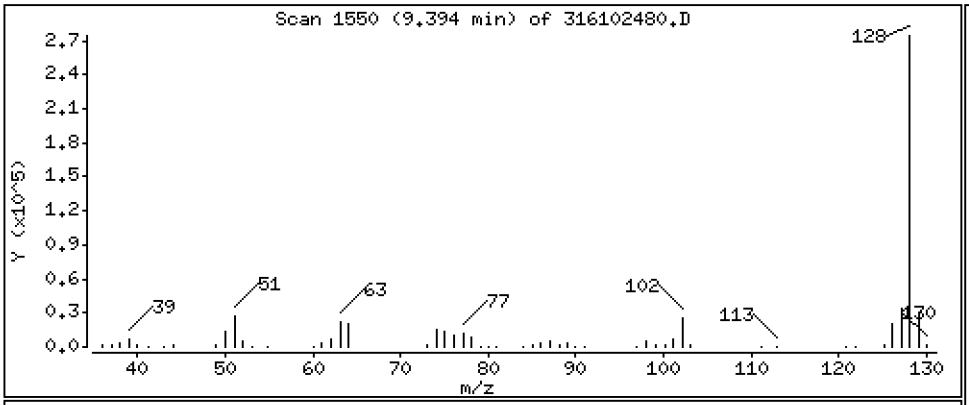
Client ID: Instrument: ms03.i

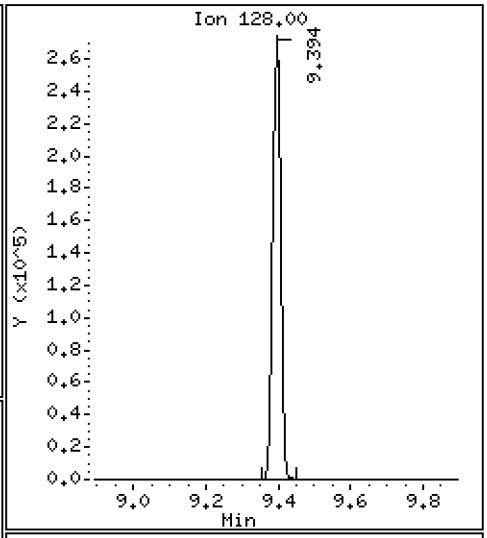
Sample Info: 1801;;1;2;4;;;

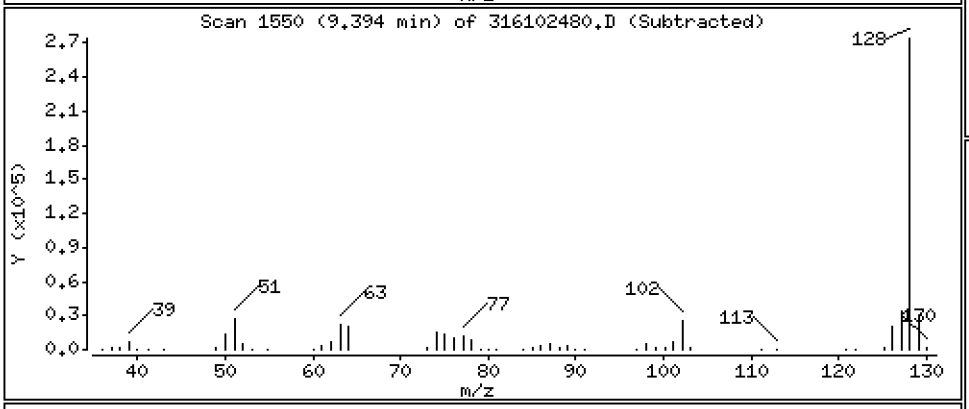
Purge Volume: 5.0 Operator: CJG

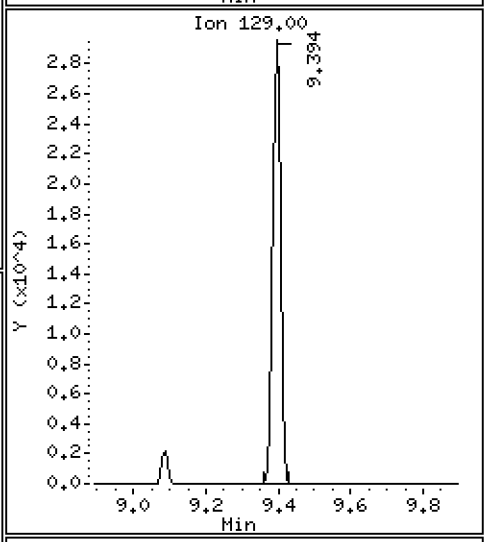
Column phase: DB-VRX Column diameter: 0.25

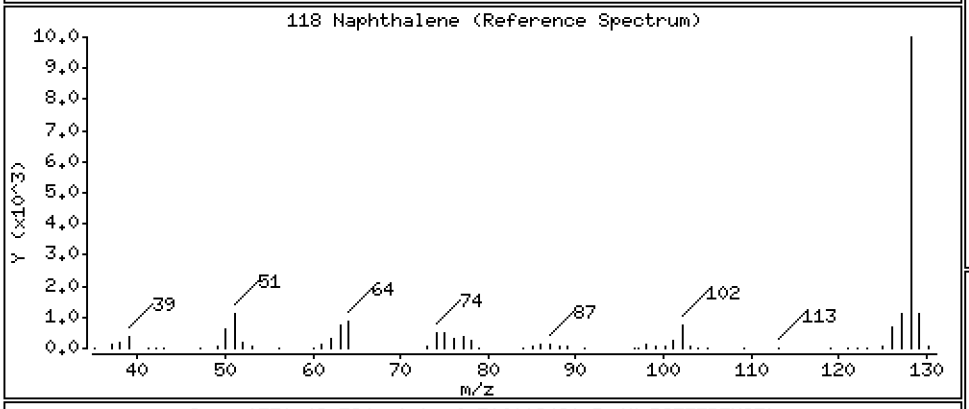
118 Naphthalene Concentration: 45.1577 ug/L

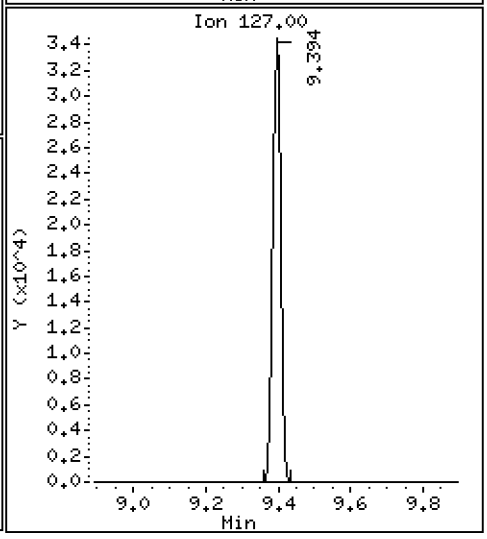


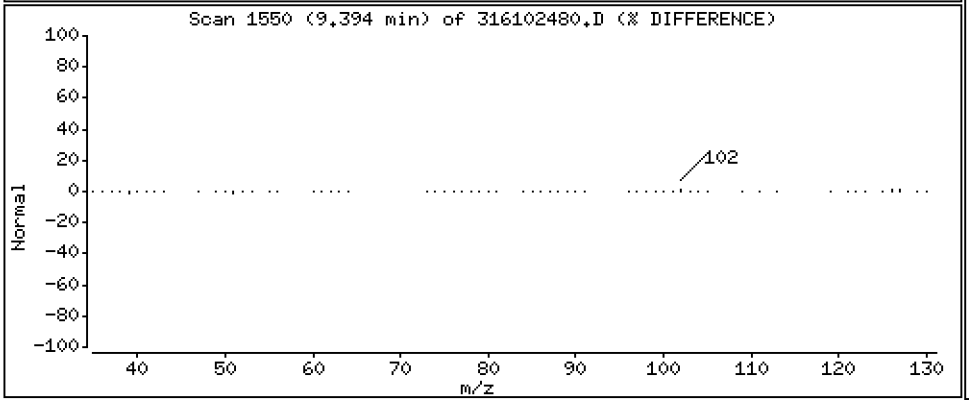












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 123

Date : 25-OCT-2016 09:17

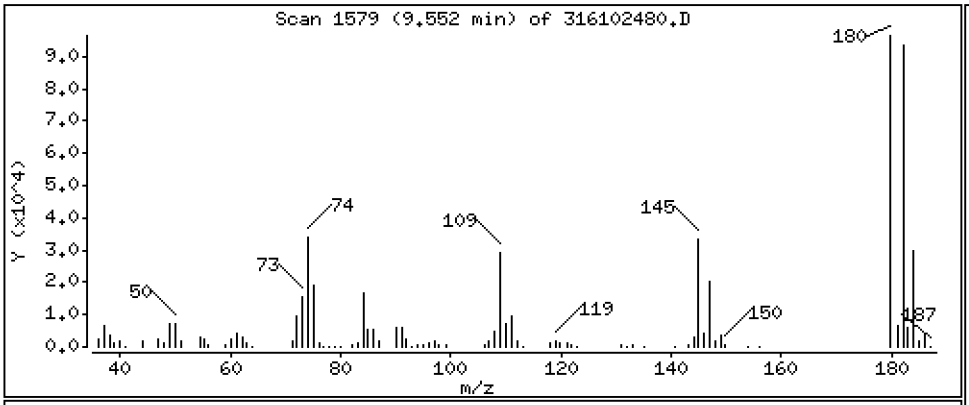
Client ID: Instrument: ms03.i

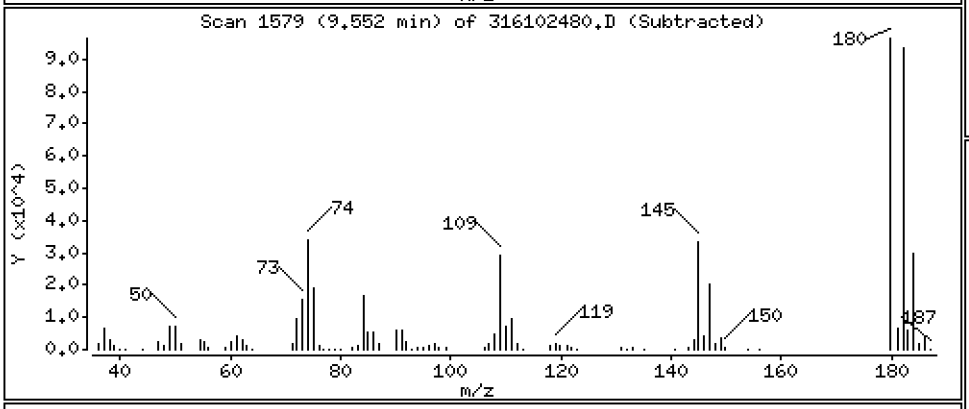
Sample Info: 1801;;1;2;4;;;

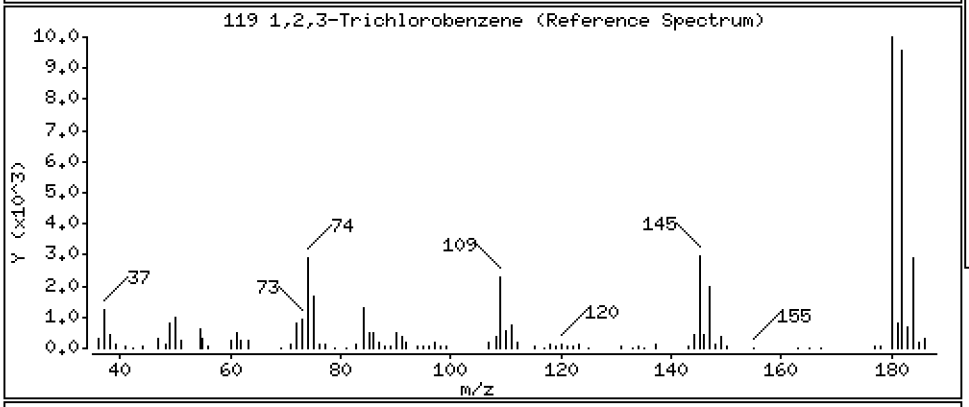
Purge Volume: 5.0 Operator: CJG

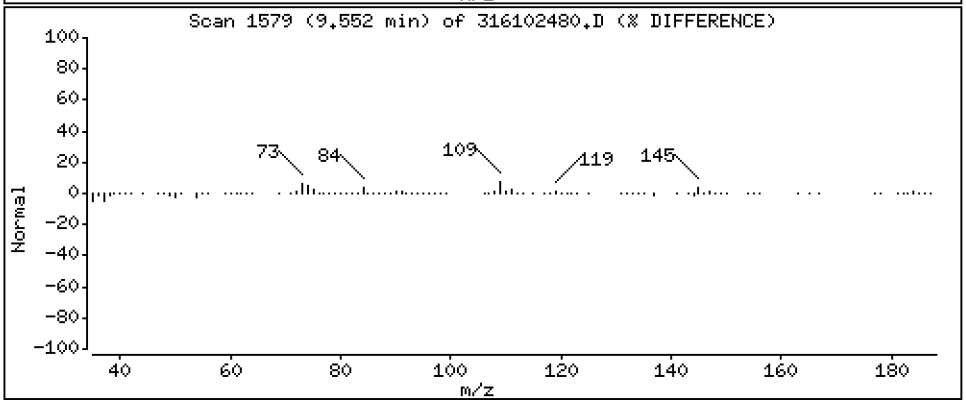
Column phase: DB-VRX Column diameter: 0.25

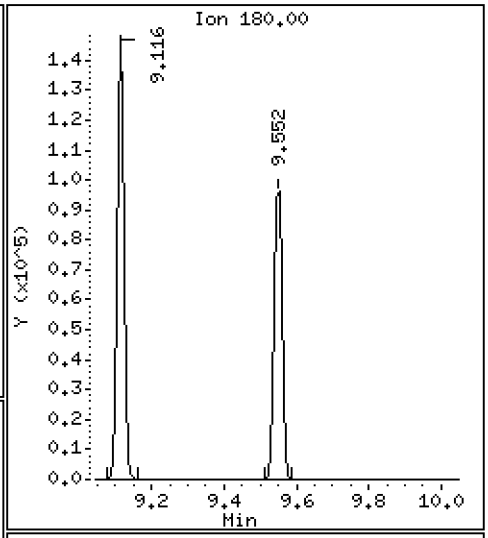
119 1,2,3-Trichlorobenzene Concentration: 45.8649 ug/L

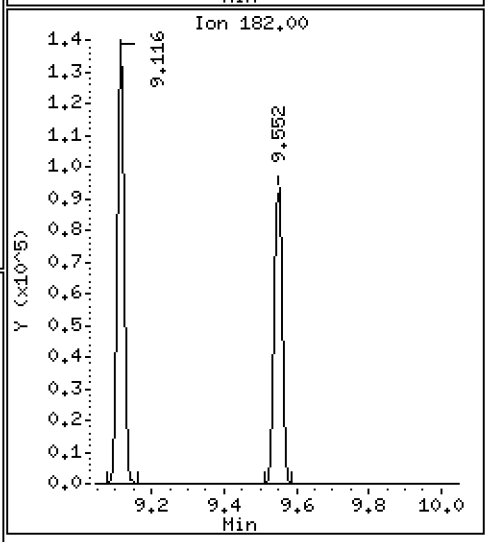












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 124

Date : 25-OCT-2016 09:17

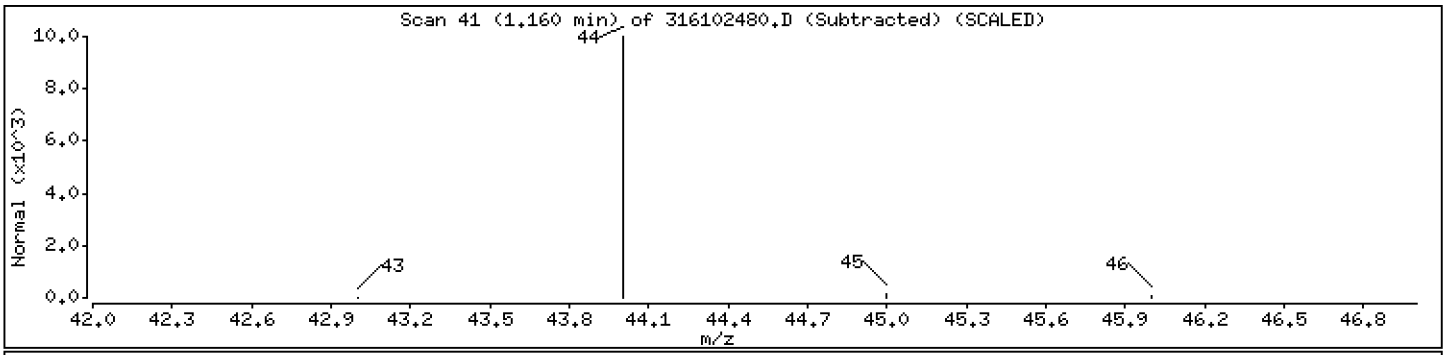
Client ID: Instrument: ms03.i

Sample Info: 1801;;1;2;4;;;

Purge Volume: 5.0 Operator: CJG

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 125

Date : 25-OCT-2016 09:17

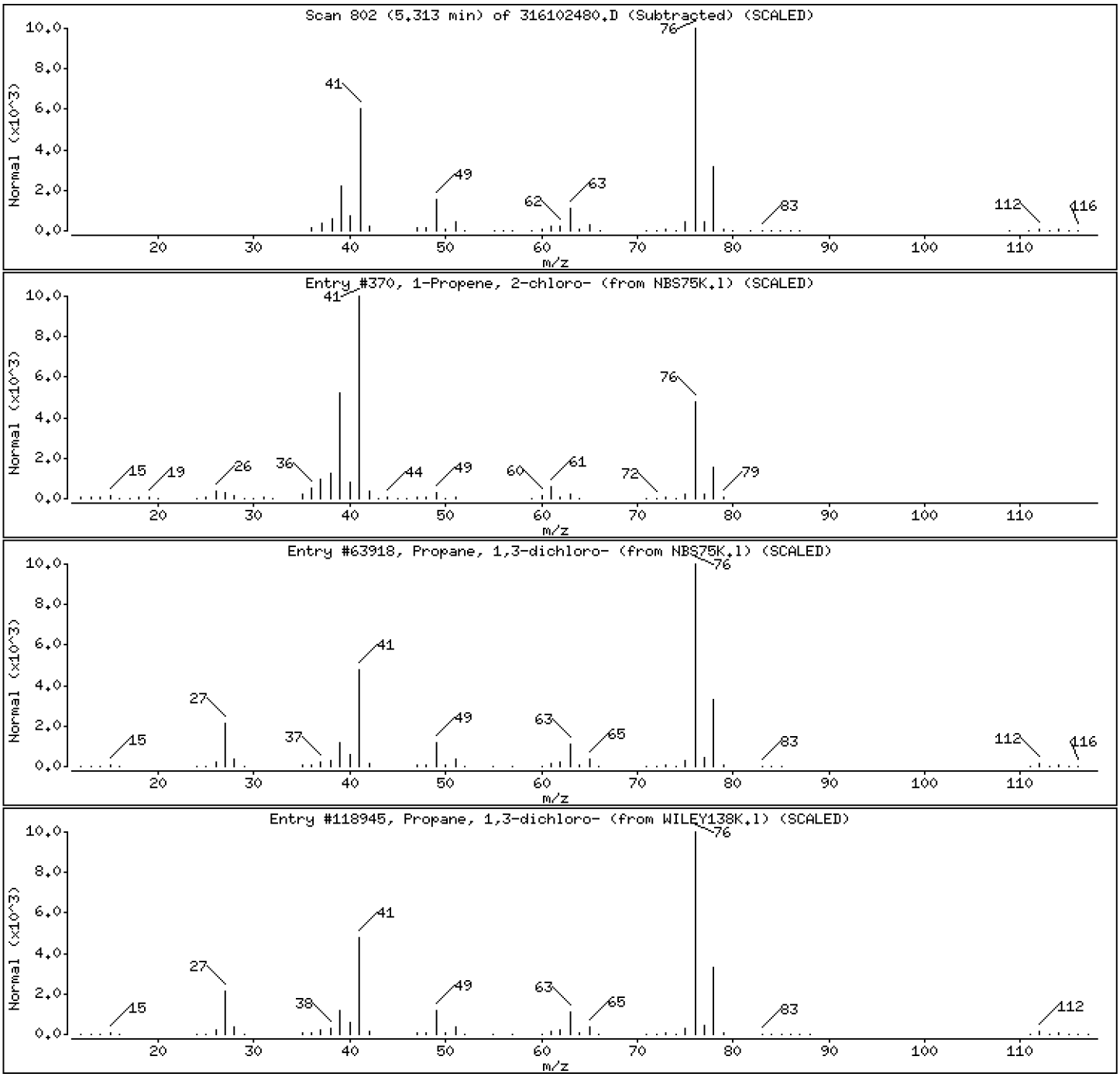
Client ID: Instrument: ms03.i

Sample Info: 1801;;1;2;4;;;

Purge Volume: 5.0 Operator: CJG

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Propene, 2-chloro-	557-98-2	NBS75K.l	370	86	C3H5Cl	76
Propane, 1,3-dichloro-	142-28-9	NBS75K.l	63918	83	C3H6Cl2	112
Propane, 1,3-dichloro-	142-28-9	WILEY138K.l	118945	83	C3H6Cl2	112



Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 126

Date : 25-OCT-2016 09:17

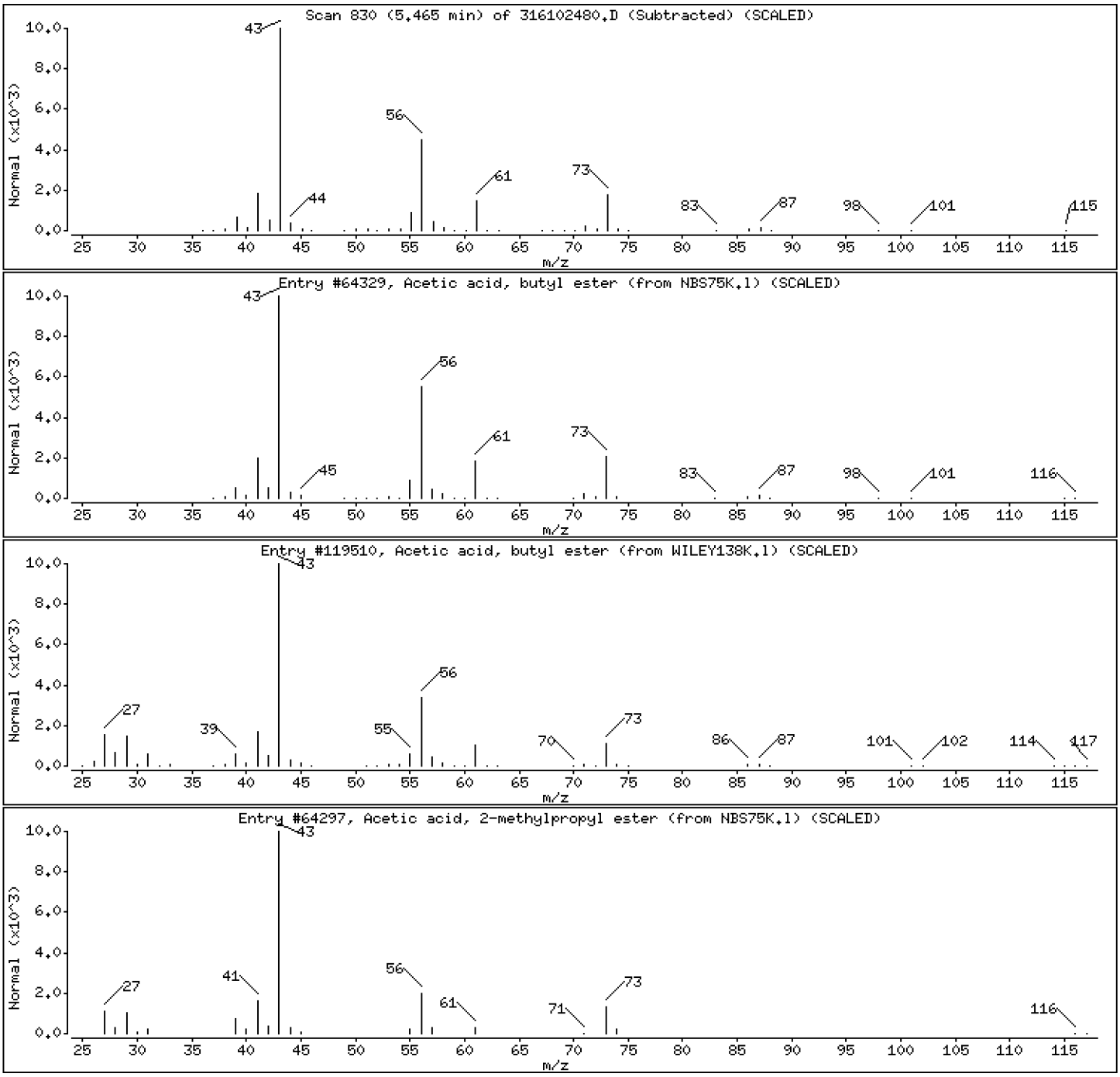
Client ID: Instrument: ms03.i

Sample Info: 1801;;1;2;4;;;

Purge Volume: 5.0 Operator: CJG

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, butyl ester	123-86-4	NBS75K.l	64329	90	C6H12O2	116
Acetic acid, butyl ester	123-86-4	WILEY138K.l	119510	83	C6H12O2	116
Acetic acid, 2-methylpropyl ester	110-19-0	NBS75K.l	64297	42	C6H12O2	116



Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 127

Date : 25-OCT-2016 09:17

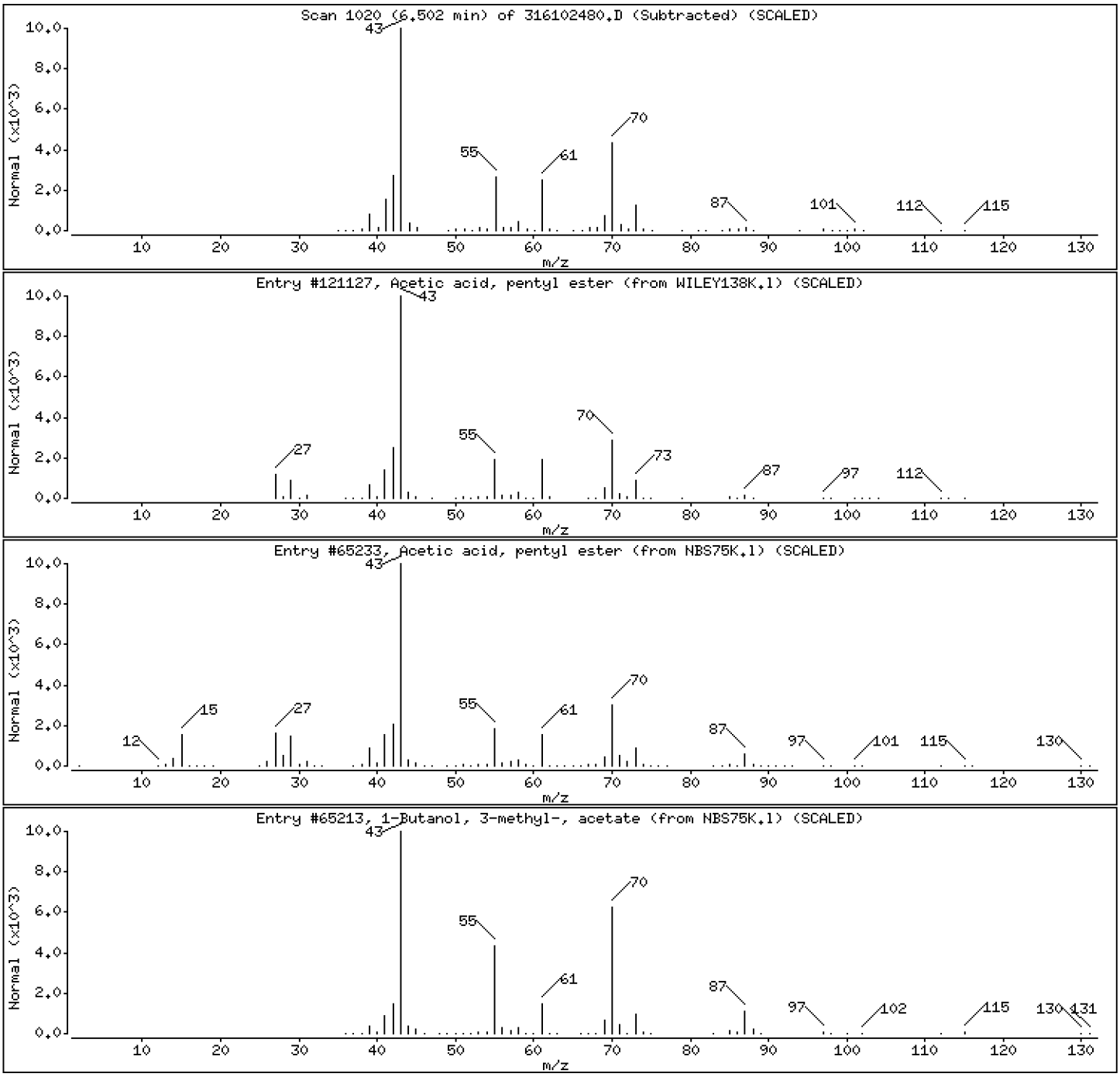
Client ID: Instrument: ms03.i

Sample Info: 1801;;1;2;4;;;

Purge Volume: 5.0 Operator: CJG

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, pentyl ester	628-63-7	WILEY138K.l	121127	83	C7H1402	130
Acetic acid, pentyl ester	628-63-7	NBS75K.l	65233	78	C7H1402	130
1-Butanol, 3-methyl-, acetate	123-92-2	NBS75K.l	65213	40	C7H1402	130

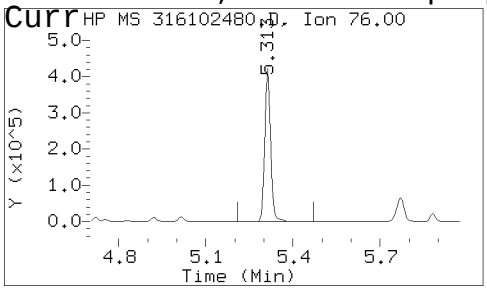


MANUAL INTEGRATION REPORT

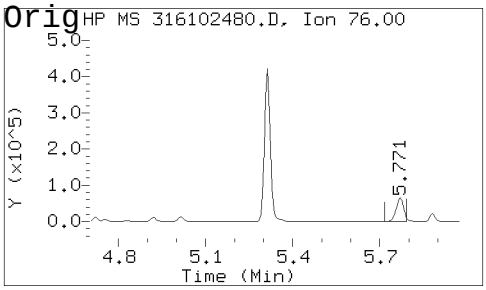
Report Date: 10/25/2016 10:29
Lab Sample ID: 1801 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102480.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102480.D
Injection Date: 25-OCT-2016 09:17 Operator: CJG

1,3-Dichloropropane

Curr



Orig



Curr. Area: 583169
Orig. Area: 120094

Curr. ON-COL: 45.5083
Orig. ON-COL: 9.37168

UNASSIGNED PEAK REPORT

Report Date: 10/25/2016 10:29
Lab Sample ID: 1801 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102480.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102480.D
Injection Date: 25-OCT-2016 09:17 Operator: CJG

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS Global SDG No.: PQF-048

Instrument ID: ms03.i Calibration Date/Time: 10/25/2016 21:59
Lab File ID: 316102551A.D Init. Calib. Date(s): 10/24/2016 10/25/2016
Heated Purge: (Y/N) N Init. Calib. Time(s): 23:25 01:36
GC Column: RTXVRX ID: 0.25 (mm)

COMPOUND	RRF	RRF050	Conc. CC std	MIN RRF	%D	MAX%D	CT
Acetone	0.0196	0.0177			-9.9	20.0	A
Acrolein	0.0356	0.0340			-4.3	20.0	A
Acrylonitrile	0.0868	0.0801			-7.7	20.0	A
Acetonitrile	250		266		6.6	20.0	L
tert-Amyl Ethylether	0.5082	0.5055			-0.5	20.0	A
tert-Amyl methyl ether	0.5705	0.5442			-4.6	20.0	A
tert-Amyl Alcohol	250		240		-4.1	20.0	Q
Benzene	1.0976	0.9877			-10.0	20.0	A
Benzyl Chloride	50.0000		47.5752		-4.8	20.0	Q
Bromobenzene	0.7622	0.6777			-11.1	20.0	A
Bromochloromethane	0.1024	0.0911			-11.0	20.0	A
Bromodichloromethane	0.2715	0.2562			-5.6	20.0	A
Bromoform	50.0000		44.5683	0.100	-10.9	20.0	Q
Bromomethane	50.0000		49.9655		-0.1	20.0	Q
2-Butanone	0.0284	0.0265			-6.7	20.0	A
tert.- Butyl Alcohol	0.0137	0.0128			-6.7	20.0	A
tert-Butylbenzene	0.6028	0.5741			-4.8	20.0	A
n-Butylbenzene	0.5585	0.5662			1.4	20.0	A
sec-Butylbenzene	3.3286	3.2812			-1.4	20.0	A
Carbon Disulfide	0.6463	0.6045			-6.5	20.0	A
Carbon Tetrachloride	0.2523	0.2395			-5.1	20.0	A
Chloroacetonitrile	250		239		-4.2	20.0	Q
Chlorobenzene	1.4993	1.2770		0.300	-14.8	20.0	A
1-Chlorobutane	50.0000		50.8462		1.7	20.0	L
Chlorodibromomethane	0.3736	0.3640			-2.6	20.0	A
Chloroethane	50.0000		49.8821		-0.2	20.0	L
2-Chloroethylvinyl ether	50.0000		42.7754		-14.4	20.0	L
Chloroform	50.0000		48.0469		-3.9	20.0	Q
1-Chlorohexane	0.7289	0.7125			-2.2	20.0	A
Chloromethane	50.0000		50.7476	0.100	1.5	20.0	Q
Chloroprene	0.3631	0.3519			-3.1	20.0	A
3-Chloro-1-propene	0.3156	0.3084			-2.3	20.0	A
o-Chlorotoluene	2.8547	2.6407			-7.5	20.0	A
p-Chlorotoluene	2.6007	2.4071			-7.4	20.0	A
Cyclohexane	0.3954	0.3713			-6.1	20.0	A

Calibration Type: A=Average Response Factor, L=Linear Regression, Q=Quadratic Regression
Compounds with "Calibration Type" other than "A" are calculated as % Drift due to alternate calibration type.

Form VII VOA 8260B

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS Global SDG No.: PQF-048

Instrument ID: ms03.i Calibration Date/Time: 10/25/2016 21:59
Lab File ID: 316102551A.D Init. Calib. Date(s): 10/24/2016 10/25/2016
Heated Purge: (Y/N) N Init. Calib. Time(s): 23:25 01:36
GC Column: RTXVRX ID: 0.25 (mm)

COMPOUND	RRF	RRF050	Conc. CC std	MIN RRF	%D	MAX%D	CT
1,2-Dibromo-3-Chloropropane	50.0000		46.6957		-6.6	20.0	Q
1,2-Dibromoethane	0.4132	0.3764			-8.9	20.0	A
Dibromomethane	0.1334	0.1181			-11.5	20.0	A
trans-1,4-Dichloro-2-butene	0.2105	0.2164			2.8	20.0	A
1,2-Dichlorobenzene	50.0000		47.1290		-5.7	20.0	Q
1,3-Dichlorobenzene	50.0000		47.5368		-4.9	20.0	Q
1,4-Dichlorobenzene	50.0000		47.6362		-4.7	20.0	Q
Dichlorodifluoromethane	50.0000		48.9394		-2.1	20.0	Q
1,1-Dichloroethane	0.4794	0.4368			-8.9	20.0	A
1,2-Dichloroethene, Total	0.3681	0.3358			-8.8	20.0	A
1,2-Dichloroethane	0.3251	0.2898			-10.9	20.0	A
1,1-Dichloroethene	0.3789	0.3429			-9.5	20.0	A
cis-1,2-Dichloroethene	0.3680	0.3335			-9.4	20.0	A
trans-1,2-Dichloroethene	0.3682	0.3381			-8.2	20.0	A
Dichlorofluoromethane	0.5479	0.4858			-11.3	20.0	A
1,1-Dichloro-2-Propanone	250		230		-8.2	20.0	Q
2,2-Dichloropropane	50.0000		51.1015		2.2	20.0	Q
1,3-Dichloropropane	0.8966	0.7970			-11.1	20.0	A
1,2-Dichloropropane	0.2697	0.2489			-7.7	20.0	A
1,1-Dichloropropene	0.3555	0.3313			-6.8	20.0	A
cis-1,3-Dichloropropene	0.8096	0.8156			0.7	20.0	A
trans-1,3-Dichloropropene	0.7035	0.7112			1.1	20.0	A
1,3-Dichloropropene, Total	0.7565	0.7634			0.9	20.0	A
Diisobutylene	50.0000		54.9346		9.9	20.0	L
Diisopropyl ether	0.8317	0.8029			-3.5	20.0	A
1,4-Dioxane	0.0009	0.0011			18.0	20.0	A
Ethyl Acetate	0.2106	0.2048			-2.8	20.0	A
Ethyl ether	0.1822	0.1603			-12.0	20.0	A
Ethyl Methacrylate	0.6447	0.6652			3.2	20.0	A
Ethyl tert-butyl ether	0.7060	0.6913			-2.1	20.0	A
Ethylbenzene	0.8189	0.7192			-12.2	20.0	A
Freon 113	0.2137	0.1939			-9.2	20.0	A
Heptane	0.1622	0.1799			10.9	20.0	A
Hexachlorobutadiene	50.0000		56.8963		13.8	20.0	Q
Hexachloroethane	0.3875	0.3546			-8.5	20.0	A

Calibration Type: A=Average Response Factor, L=Linear Regression, Q=Quadratic Regression
Compounds with "Calibration Type" other than "A" are calculated as % Drift due to alternate calibration type.

Form VII VOA 8260B

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS Global SDG No.: PQF-048

Instrument ID: ms03.i Calibration Date/Time: 10/25/2016 21:59
Lab File ID: 316102551A.D Init. Calib. Date(s): 10/24/2016 10/25/2016
Heated Purge: (Y/N) N Init. Calib. Time(s): 23:25 01:36
GC Column: RTXVRX ID: 0.25 (mm)

COMPOUND	RRF	RRF050	Conc. CC std	MIN RRF	%D	MAX%D	CT
Hexane	0.5186	0.4929			-5.0	20.0	A
2-Hexanone	0.3121	0.3300			5.7	20.0	A
Iodomethane	50.0000		47.3738		-5.3	20.0	Q
Isobutyl alcohol	500		590		17.9	20.0	Q
Isopropyl Alcohol	250		241		-3.4	20.0	L
Isopropylbenzene	3.6356	3.4637			-4.7	20.0	A
p-Isopropyltoluene	0.6342	0.6409			1.1	20.0	A
Methyl acetate	0.0390	0.0363			-6.8	20.0	A
Methyl acrylate	0.2043	0.2025			-0.9	20.0	A
Methacrylonitrile	0.0999	0.0918			-8.2	20.0	A
Methyl cyclohexane	0.9959	0.9421			-5.4	20.0	A
Methyl methacrylate	0.1859	0.1882			1.2	20.0	A
Methyl t-Butyl Ether	0.6355	0.5951			-6.3	20.0	A
4-Methyl-2-Pentanone(MIBK)	0.4927	0.5072			2.9	20.0	A
Methylene Chloride	50.0000		47.4865		-5.0	20.0	Q
Naphthalene	50.0000		45.1116		-9.8	20.0	Q
Nitrobenzene	500		371		-25.8 *	20.0	L
2-Nitropropane	250		239		-4.4	20.0	Q
Octane	50.0000		60.1590		20.3 *	20.0	L
Pentachloroethane	0.5018	0.4643			-7.5	20.0	A
Pentane	50.0000		54.9213		9.8	20.0	L
n-Propanol	500		494		-1.2	20.0	L
Propionitrile	0.0325	0.0303			-6.7	20.0	A
n-Propylbenzene	0.9193	0.8813			-4.1	20.0	A
Styrene	2.2250	2.1492			-3.4	20.0	A
1,1,1,2-Tetrachloroethane	0.3937	0.3708			-5.8	20.0	A
1,1,2,2-Tetrachloroethane	0.8817	0.7946		0.300	-9.9	20.0	A
Tetrachloroethene	50.0000		50.8893		1.8	20.0	Q
Tetrahydrofuran	0.0667	0.0634			-5.0	20.0	A
Toluene	1.4291	1.3171			-7.8	20.0	A
Total Xylenes	0.9199	0.8496			-7.6	20.0	A
1,2,3-Trichlorobenzene	0.3115	0.2877			-7.7	20.0	A
1,2,4-Trichlorobenzene	50.0000		47.3381		-5.3	20.0	Q
1,1,1-Trichloroethane	0.3363	0.3223			-4.2	20.0	A
1,1,2-Trichloroethane	0.4155	0.3680			-11.4	20.0	A

Calibration Type: A=Average Response Factor, L=Linear Regression, Q=Quadratic Regression
Compounds with "Calibration Type" other than "A" are calculated as % Drift due to alternate calibration type.

Form VII VOA 8260B

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS Global SDG No.: PQF-048

Instrument ID: ms03.i Calibration Date/Time: 10/25/2016 21:59
Lab File ID: 316102551A.D Init. Calib. Date(s): 10/24/2016 10/25/2016
Heated Purge: (Y/N) N Init. Calib. Time(s): 23:25 01:36
GC Column: RTXVRX ID: 0.25 (mm)

COMPOUND	RRF	RRF050	Conc. CC std	MIN RRF	%D	MAX%D	CT
Trichloroethene	0.2613	0.2288			-12.4	20.0	A
Trichlorofluoromethane	50.0000		48.3790		-3.2	20.0	L
1,2,3-Trichloropropane	0.2621	0.2305			-12.0	20.0	A
1,2,4-Trimethylbenzene	2.6028	2.5500			-2.0	20.0	A
1,3,5-Trimethylbenzene	2.6620	2.6063			-2.1	20.0	A
Vinyl Acetate	50.0000		44.4386		-11.1	20.0	L
Vinyl Chloride	50.0000		49.8621		-0.3	20.0	L
o-Xylene	0.8485	0.8065			-5.0	20.0	A
mp-Xylene	0.9556	0.8711			-8.8	20.0	A
4-Bromofluorobenzene	50.0000		47.4288		-5.1	20.0	L
Dibromofluoromethane	0.1978	0.1702			-13.9	20.0	A
1,2-Dichloroethane-d4	50.0000		51.3014		2.6	20.0	L
Toluene-d8	50.0000		46.9613		-6.1	20.0	Q

Calibration Type: A=Average Response Factor, L=Linear Regression, Q=Quadratic Regression
Compounds with "Calibration Type" other than "A" are calculated as % Drift due to alternate calibration type.

Form VII VOA 8260B

Data File: 316102551A.D Page 1
Report Date: 26-Oct-2016 10:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\31610255
Lab Smp Id: 1800
Inj Date : 25-OCT-2016 21:59
Operator : CJG Inst ID: ms03.i
Smp Info : 1800;;1;2;4;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b0
Meth Date : 26-Oct-2016 10:26 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.258	(0.332)	619650	50.0000	48.9394	
2 Chloromethane	50	1.389	1.389	(0.367)	581056	50.0000	50.7476	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	632283	50.0000	49.8621	
4 Bromomethane	94	1.646	1.646	(0.434)	255382	50.0000	49.9655	
5 Chloroethane	64	1.722	1.722	(0.454)	390589	50.0000	49.8821	
6 Pentane	41	1.793	1.793	(0.473)	370788	50.0000	54.9213	
7 Trichlorofluoromethane	101	1.798	1.798	(0.475)	690350	50.0000	48.3790	
8 Dichlorofluoromethane	67	1.826	1.826	(0.482)	844018	50.0000	44.3253	
9 Ethyl Ether	74	1.967	1.967	(0.519)	278516	50.0000	43.9792	
10 1,1-Dichloroethene	61	2.088	2.088	(0.551)	595788	50.0000	45.2541	
12 Carbon Disulfide	76	2.120	2.120	(0.560)	1050301	50.0000	46.7660	
11 Freon 113	101	2.104	2.104	(0.555)	336971	50.0000	45.3828	
13 Iodomethane	127	2.180	2.180	(0.575)	96065	50.0000	47.3738	
14 Acrolein	56	2.273	2.273	(0.600)	591700	500.000	478.664	
16 3-Chloro-1-propene	41	2.344	2.344	(0.619)	535786	50.0000	48.8495	
15 Isopropyl Alcohol	45	2.333	2.333	(0.616)	67986	250.000	241.435(M)	H
17 Methylene Chloride	84	2.404	2.404	(0.634)	404621	50.0000	47.4865	
18 Acetone	58	2.426	2.426	(0.640)	153678	250.000	225.127	
19 Methyl acetate	74	2.480	2.480	(0.655)	63091	50.0000	46.5768	
20 trans-1,2-Dichloroethene	61	2.486	2.486	(0.656)	587455	50.0000	45.9085	
21 Hexane	57	2.519	2.519	(0.665)	856370	50.0000	47.5178	

Data File: 316102551A.D Page 2
Report Date: 26-Oct-2016 10:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.529	2.529	(0.667)	1034035	50.0000	46.8250	
	23 tert.- Butyl Alcohol	59	2.568	2.568	(0.678)	110904	250.000	233.356	
	24 Acetonitrile	41	2.682	2.682	(0.708)	191080	250.000	266.488	
	25 Diisopropyl ether	45	2.720	2.720	(0.718)	1395144	50.0000	48.2685	
	26 Chloroprene	53	2.797	2.797	(0.738)	611456	50.0000	48.4600	
	27 1,1-Dichloroethane	63	2.813	2.813	(0.742)	758979	50.0000	45.5577	
	28 Acrylonitrile	53	2.840	2.840	(0.750)	696164	250.000	230.811	
	30 n-Propanol	41	2.911	2.911	(0.768)	254305	500.000	493.838	
	29 Ethyl tert-butyl ether	59	2.911	2.911	(0.768)	1201241	50.0000	48.9616	
	31 Vinyl acetate	86	2.928	2.928	(0.773)	81016	50.0000	44.4386	
	32 cis-1,2-Dichloroethene	61	3.097	3.097	(0.817)	579441	50.0000	45.3089	
	33 2,2-Dichloropropane	77	3.157	3.157	(0.833)	519358	50.0000	51.1015	
M	100 1,2-Dichloroethene, Total	61				1166896	100.000	91.2174	
	34 Bromochloromethane	128	3.206	3.206	(0.846)	158245	50.0000	44.4777	
	35 Cyclohexane	84	3.212	3.212	(0.847)	645202	50.0000	46.9517	
	36 Chloroform	83	3.233	3.233	(0.853)	732788	50.0000	48.0469	
	37 Ethyl acetate	43	3.277	3.277	(0.865)	355902	50.0000	48.6240	
	38 Methyl acrylate	55	3.293	3.293	(0.869)	351799	50.0000	49.5564	
	39 Carbon Tetrachloride	117	3.321	3.321	(0.876)	416233	50.0000	47.4668	
	40 Tetrahydrofuran	42	3.326	3.326	(0.878)	550513	250.000	237.376	
$	41 Dibromofluoromethane	113	3.337	3.337	(0.881)	295792	50.0000	43.0301	
	42 1,1,1-Trichloroethane	97	3.359	3.359	(0.886)	559949	50.0000	47.9103	
	43 2-Butanone	72	3.397	3.397	(0.896)	230596	250.000	233.262	
	44 1,1-Dichloropropene	75	3.424	3.424	(0.904)	575648	50.0000	46.5929	
	45 1-Chlorobutane	41	3.446	3.446	(0.909)	455520	50.0000	50.8462	
	46 Heptane	71	3.512	3.512	(0.927)	312612	50.0000	55.4606	
	48 Propionitrile	54	3.577	3.577	(0.944)	263287	250.000	233.272	
	47 Benzene	78	3.561	3.561	(0.940)	1716148	50.0000	44.9915	
	49 Methacrylonitrile	67	3.583	3.583	(0.945)	159458	50.0000	45.9140	
	50 tert-amyl methyl Ether	73	3.599	3.599	(0.950)	945505	50.0000	47.6926	
$	51 1,2-Dichloroethane-d4	65	3.637	3.637	(0.960)	419485	50.0000	51.3014	
	54 Isobutyl alcohol	43	3.626	3.626	(0.957)	116551	500.000	589.542	
	52 1,2-Dichloroethane	62	3.675	3.675	(0.970)	503480	50.0000	44.5684	
	53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	93250	250.000	239.652	
*	55 Fluorobenzene	96	3.790	3.790	(1.000)	1042522	30.0000		
	56 Diisobutylene	57	3.795	3.795	(1.001)	1174791	50.0000	54.9346	
	57 Trichloroethene	95	3.883	3.883	(1.024)	397549	50.0000	43.7839	
	58 Methyl cyclohexane	83	3.883	3.883	(0.674)	698835	50.0000	47.3005	
	59 tert-Amyl Ethylether	59	3.986	3.986	(1.052)	878295	50.0000	49.7354	
	60 Dibromomethane	93	4.139	4.139	(1.092)	205166	50.0000	44.2707	
	61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	432414	50.0000	46.1299	
	62 Bromodichloromethane	83	4.221	4.221	(1.114)	445241	50.0000	47.1933	
	63 Methyl methacrylate	41	4.292	4.292	(1.132)	326991	50.0000	50.6201	
	64 1,4-Dioxane	88	4.336	4.336	(1.144)	45861	1250.00	1474.52(M)	H
	65 2-Chloroethylvinyl ether	63	4.548	4.548	(1.200)	195280	50.0000	42.7754	
	66 cis-1,3-Dichloropropene	75	4.603	4.603	(0.799)	604975	50.0000	50.3715	
	67 Octane	85	4.608	4.608	(0.800)	217021	50.0000	60.1590	
$	68 Toluene-d8	98	4.723	4.723	(0.820)	1295478	50.0000	46.9613	
	69 Toluene	92	4.756	4.756	(0.826)	976993	50.0000	46.0808	
	70 Chloroacetonitrile	48	4.827	4.827	(0.838)	46138	250.000	239.499	
	71 2-Nitropropane	41	4.908	4.908	(0.852)	375609	250.000	238.975	
	72 1,1-Dichloro-2-propanone	63	4.919	4.919	(0.854)	33467	250.000	229.525	
	73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.985	(0.865)	1881047	250.000	257.354	
	75 trans-1,3-Dichloropropene	75	5.012	5.012	(0.870)	527524	50.0000	50.5485	

Data File: 316102551A.D Page 3
Report Date: 26-Oct-2016 10:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	263065	50.0000	50.8893	
	76 Ethyl methacrylate	69	5.094	5.094	(0.884)	493419	50.0000	51.5897	
	77 1,1,2-Trichloroethane	83	5.121	5.121	(0.889)	272947	50.0000	44.2848	
	78 Chlorodibromomethane	129	5.247	5.247	(0.911)	270018	50.0000	48.7135	
	79 1,3-Dichloropropane	76	5.312	5.312	(0.922)	591160	50.0000	44.4434(M)	H
	80 1,2-Dibromoethane	107	5.421	5.421	(0.941)	279224	50.0000	45.5459	
	81 2-Hexanone	43	5.541	5.541	(0.962)	1223725	250.000	264.322	
	82 1-Chlorohexane	91	5.738	5.738	(0.996)	528532	50.0000	48.8791	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	445064	30.0000		
	85 Ethylbenzene	106	5.781	5.781	(1.004)	533453	50.0000	43.9074	
	84 Chlorobenzene	112	5.771	5.771	(1.002)	947271	50.0000	42.5865	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.814	(1.009)	275024	50.0000	47.0893	
	87 mp-Xylene	106	5.880	5.880	(1.021)	1292317	100.000	91.1542	
M	120 1,3-Dichloropropene, Total	75				1132499	100.000	100.920	
	88 o-Xylene	106	6.196	6.196	(1.076)	598205	50.0000	47.5245	
	89 Styrene	104	6.234	6.234	(0.829)	980276	50.0000	48.2967	
	90 Bromoform	173	6.262	6.262	(0.832)	116768	50.0000	44.5683	
	91 Isopropylbenzene	105	6.425	6.425	(0.854)	1579868	50.0000	47.6363	
$	92 4-Bromofluorobenzene	174	6.649	6.649	(0.884)	268646	50.0000	47.4288	
M	121 TOTAL XYLENES	106				1890522	150.000	138.679	
	94 n-Propylbenzene	120	6.736	6.736	(0.896)	401978	50.0000	47.9319	
	93 Bromobenzene	156	6.731	6.731	(0.895)	309135	50.0000	44.4628	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.791	(0.903)	362439	50.0000	45.0639	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.915)	1188758	50.0000	48.9525	
	96 o-Chlorotoluene	91	6.867	6.867	(0.913)	1204479	50.0000	46.2518	
	98 1,2,3-Trichloropropane	110	6.905	6.905	(0.918)	105152	50.0000	43.9865	
	99 trans-1,4-Dichloro-2-butene	53	6.933	6.933	(0.922)	98707	50.0000	51.3945	
	101 p-Chlorotoluene	91	6.993	6.993	(0.930)	1097908	50.0000	46.2768	
	102 tert-Butylbenzene	134	7.135	7.135	(0.949)	261846	50.0000	47.6167	
	103 Pentachloroethane	117	7.162	7.162	(0.952)	211776	50.0000	46.2603	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.956)	1163117	50.0000	48.9861	
	105 sec-Butylbenzene	105	7.277	7.277	(0.967)	1496626	50.0000	49.2879	
	106 p-Isopropyltoluene	134	7.391	7.391	(0.983)	292333	50.0000	50.5293	
	107 1,3-Dichlorobenzene	146	7.462	7.462	(0.992)	540374	50.0000	47.5368	
*	108 1,4-Dichlorobenzene-d4	152	7.522	7.522	(1.000)	273670	30.0000		
	109 1,4-Dichlorobenzene	146	7.533	7.533	(1.001)	546508	50.0000	47.6362	
	111 n-Butylbenzene	134	7.735	7.735	(1.028)	258267	50.0000	50.6938	
	110 Benzyl Chloride	126	7.735	7.735	(1.028)	74257	50.0000	47.5752	
	112 Hexachloroethane	117	7.849	7.849	(1.044)	161734	50.0000	45.7493	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.047)	482042	50.0000	47.1290	
	114 1,2-Dibromo-3-chloropropane	75	8.542	8.542	(1.136)	40019	50.0000	46.6957	
	115 Nitrobenzene	77	9.028	9.028	(1.200)	17070	500.000	370.777	
	116 Hexachlorobutadiene	225	9.088	9.088	(1.208)	108337	50.0000	56.8963	
	117 1,2,4-Trichlorobenzene	180	9.115	9.115	(1.212)	207215	50.0000	47.3381	
	118 Naphthalene	128	9.394	9.394	(1.249)	366537	50.0000	45.1116	
	119 1,2,3-Trichlorobenzene	180	9.546	9.546	(1.269)	131214	50.0000	46.1715	

QC Flag Legend

M - Compound response manually integrated.

Data File: 316102551A.D Page 4
Report Date: 26-Oct-2016 10:32

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 25-OCT-2016
Lab File ID: 316102551A.D Calibration Time: 21:31
Lab Smp Id: 1800
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: CJG
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b
Misc Info:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	1042522	2.90
83 Chlorobenzene-d5	432864	216432	865728	445064	2.82
108 1,4-Dichlorobenze	273837	136919	547674	273670	-0.06

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102551A.D Page 5
Report Date: 26-Oct-2016 10:32

ALS Environmental Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ms03.i Injection Date: 25-OCT-2016 21:59
Lab File ID: 316102551A.D Init. Cal. Date(s): 24-OCT-2016 25-OCT-2016
Analysis Type: WATER Init. Cal. Times: 23:25 01:36
Lab Sample ID: 1800 Quant Type: ISTD
Method: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b09.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Dichlorodifluoromethane	50.00000	48.93940	2.80406	0.010	-2.12119	100	Quadratic
2 Chloromethane	50.00000	50.74757	2.99031	0.100	1.49515	100	Quadratic
3 Vinyl Chloride	50.00000	49.86212	2.74804	0.010	-0.27576	20.00000	Linear
4 Bromomethane	50.00000	49.96548	6.80368	0.010	-0.06903	100	Quadratic
5 Chloroethane	50.00000	49.88213	4.44850	0.010	-0.23574	100	Linear
6 Pentane	50.00000	54.92132	4.68606	0.010	9.84264	100	Linear
7 Trichlorofluoromethane	50.00000	48.37899	2.51689	0.010	-3.24202	100	Linear
8 Dichlorofluoromethane	0.54794	0.48576	0.48576	0.010	-11.34948	100	Averaged
9 Ethyl Ether	0.18224	0.16029	0.16029	0.010	-12.04150	100	Averaged
10 1,1-Dichloroethene	0.37885	0.34289	0.34289	0.010	-9.49170	20.00000	Averaged
12 Carbon Disulfide	0.64628	0.60448	0.60448	0.010	-6.46801	100	Averaged
11 Freon 113	0.21367	0.19394	0.19394	0.010	-9.23434	100	Averaged
13 Iodomethane	50.00000	47.37384	18.08709	0.010	-5.25231	100	Quadratic
14 Acrolein	0.03557	0.03405	0.03405	0.000	-4.26715	100	Averaged
16 3-Chloro-1-propene	0.31562	0.30836	0.30836	0.010	-2.30101	100	Averaged
15 Isopropyl Alcohol	250	241	128	0.000	-3.42603	100	Linear
17 Methylene Chloride	50.00000	47.48654	4.29423	0.010	-5.02692	100	Quadratic
18 Acetone	0.01964	0.01769	0.01769	0.000	-9.94910	100	Averaged
19 Methyl acetate	0.03898	0.03631	0.03631	0.005	-6.84632	100	Averaged
20 trans-1,2-Dichloroethene	0.36823	0.33810	0.33810	0.010	-8.18300	100	Averaged
21 Hexane	0.51861	0.49286	0.49286	0.010	-4.96447	100	Averaged
22 Methyl t-Butyl Ether	0.63547	0.59512	0.59512	0.010	-6.34998	100	Averaged
23 tert.- Butyl Alcohol	0.01368	0.01277	0.01277	0.000	-6.65773	100	Averaged
24 Acetonitrile	250	266	45.46621	0.000	6.59539	100	Linear
25 Diisopropyl ether	0.83175	0.80294	0.80294	0.010	-3.46304	100	Averaged
26 Chloroprene	0.36309	0.35191	0.35191	0.010	-3.08006	100	Averaged
27 1,1-Dichloroethane	0.47941	0.43681	0.43681	0.100	-8.88467	100	Averaged
28 Acrylonitrile	0.08679	0.08013	0.08013	0.000	-7.67579	100	Averaged
30 n-Propanol	500	494	68.32491	0.000	-1.23240	100	Linear
29 Ethyl tert-butyl ether	0.70601	0.69135	0.69135	0.010	-2.07678	100	Averaged
31 Vinyl Acetate	50.00000	44.43856	21.44683	0.010	-11.12289	100	Linear
32 cis-1,2-Dichloroethene	0.36801	0.33348	0.33348	0.010	-9.38217	100	Averaged
33 2,2-Dichloropropane	50.00000	51.10151	3.34555	0.010	2.20302	100	Quadratic
M 100 1,2-Dichloroethene, Total	0.36812	0.33579	0.33579	0.010	-8.78241	100	Averaged
34 Bromochloromethane	0.10238	0.09107	0.09107	0.010	-11.04458	100	Averaged
35 Cyclohexane	0.39544	0.37133	0.37133	0.010	-6.09659	100	Averaged
36 Chloroform	50.00000	48.04688	2.37113	0.010	-3.90624	20.00000	Quadratic
37 Ethyl Acetate	0.21063	0.20483	0.20483	0.010	-2.75204	100	Averaged
38 Methyl acrylate	0.20428	0.20247	0.20247	0.010	-0.88723	100	Averaged
39 Carbon Tetrachloride	0.25234	0.23955	0.23955	0.010	-5.06644	100	Averaged
40 Tetrahydrofuran	0.06674	0.06337	0.06337	0.000	-5.04969	100	Averaged
$ 41 Dibromofluoromethane	0.19781	0.17024	0.17024	0.010	-13.93972	100	Averaged

Data File: 316102551A.D Page 6
Report Date: 26-Oct-2016 10:32

ALS Environmental Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ms03.i Injection Date: 25-OCT-2016 21:59
Lab File ID: 316102551A.D Init. Cal. Date(s): 24-OCT-2016 25-OCT-2016
Analysis Type: WATER Init. Cal. Times: 23:25 01:36
Lab Sample ID: 1800 Quant Type: ISTD
Method: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b09.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
42 1,1,1-Trichloroethane	0.33632	0.32227	0.32227	0.010	-4.17931	100	Averaged
43 2-Butanone	0.02845	0.02654	0.02654	0.000	-6.69519	100	Averaged
44 1,1-Dichloropropene	0.35553	0.33130	0.33130	0.010	-6.81425	100	Averaged
45 1-Chlorobutane	50.00000	50.84619	3.81440	0.010	1.69237	100	Linear
46 Heptane	0.16220	0.17992	0.17992	0.000	10.92116	100	Averaged
48 Propionitrile	0.03248	0.03031	0.03031	0.000	-6.69125	100	Averaged
47 Benzene	1.09764	0.98769	0.98769	0.010	-10.01704	100	Averaged
49 Methacrylonitrile	0.09994	0.09177	0.09177	0.010	-8.17210	100	Averaged
50 tert-Amyl methyl ether	0.57049	0.54416	0.54416	0.010	-4.61473	100	Averaged
$ 51 1,2-Dichloroethane-d4	50.00000	51.30140	4.14207	0.010	2.60280	100	Linear
54 Isobutyl alcohol	500	590	149	0.000	17.90835	100	Quadratic
52 1,2-Dichloroethane	0.32508	0.28977	0.28977	0.010	-10.86326	100	Averaged
53 tert-Amyl Alcohol	250	240	93.16550	0.002	-4.13938	100	Quadratic
56 Diisobutylene	50.00000	54.93463	1.47902	0.010	9.86925	100	Linear
57 Trichloroethene	0.26128	0.22880	0.22880	0.010	-12.43223	100	Averaged
58 Methyl cyclohexane	0.99588	0.94211	0.94211	0.005	-5.39894	100	Averaged
59 tert-Amyl Ethylether	0.50817	0.50548	0.50548	0.010	-0.52920	100	Averaged
60 Dibromomethane	0.13336	0.11808	0.11808	0.010	-11.45853	100	Averaged
61 1,2-Dichloropropane	0.26975	0.24887	0.24887	0.010	-7.74024	20.00000	Averaged
62 Bromodichloromethane	0.27149	0.25625	0.25625	0.010	-5.61343	100	Averaged
63 Methyl methacrylate	0.18589	0.18819	0.18819	0.010	1.24028	100	Averaged
64 1,4-Dioxane	0.00090	0.00106	0.00106	0.000	17.96181	100	Averaged
65 2-Chloroethylvinyl ether	50.00000	42.77538	8.89767	0.010	-14.44924	100	Linear
66 cis-1,3-Dichloropropene	0.80956	0.81558	0.81558	0.010	0.74309	100	Averaged
67 Octane	50.00000	60.15900	3.41798	0.010	20.31800	100	Linear
$ 68 Toluene-d8	50.00000	46.96126	0.57259	0.010	-6.07747	100	Quadratic
69 Toluene	1.42912	1.31710	1.31710	0.010	-7.83832	20.00000	Averaged
70 Chloroacetonitrile	250	239	80.38638	0.000	-4.20024	100	Quadratic
71 2-Nitropropane	250	239	9.87428	0.005	-4.40999	100	Quadratic
72 1,1-Dichloro-2-Propanone	250	230	111	0.001	-8.18996	100	Quadratic
73 4-Methyl-2-Pentanone(MIBK)	0.49268	0.50718	0.50718	0.010	2.94146	100	Averaged
75 trans-1,3-Dichloropropene	0.70345	0.71117	0.71117	0.010	1.09702	100	Averaged
74 Tetrachloroethene	50.00000	50.88931	2.81973	0.010	1.77861	100	Quadratic
76 Ethyl Methacrylate	0.64469	0.66519	0.66519	0.010	3.17935	100	Averaged
77 1,1,2-Trichloroethane	0.41545	0.36797	0.36797	0.010	-11.43042	100	Averaged
78 Chlorodibromomethane	0.37363	0.36402	0.36402	0.010	-2.57307	100	Averaged
79 1,3-Dichloropropane	0.89660	0.79696	0.79696	0.010	-11.11318	100	Averaged
80 1,2-Dibromoethane	0.41324	0.37643	0.37643	0.010	-8.90828	100	Averaged
81 2-Hexanone	0.31207	0.32995	0.32995	0.010	5.72866	100	Averaged
82 1-Chlorohexane	0.72886	0.71252	0.71252	0.010	-2.24176	100	Averaged
85 Ethylbenzene	0.81895	0.71916	0.71916	0.010	-12.18522	20.00000	Averaged
84 Chlorobenzene	1.49934	1.27704	1.27704	0.300	-14.82709	100	Averaged
86 1,1,1,2-Tetrachloroethane	0.39368	0.37077	0.37077	0.010	-5.82149	100	Averaged

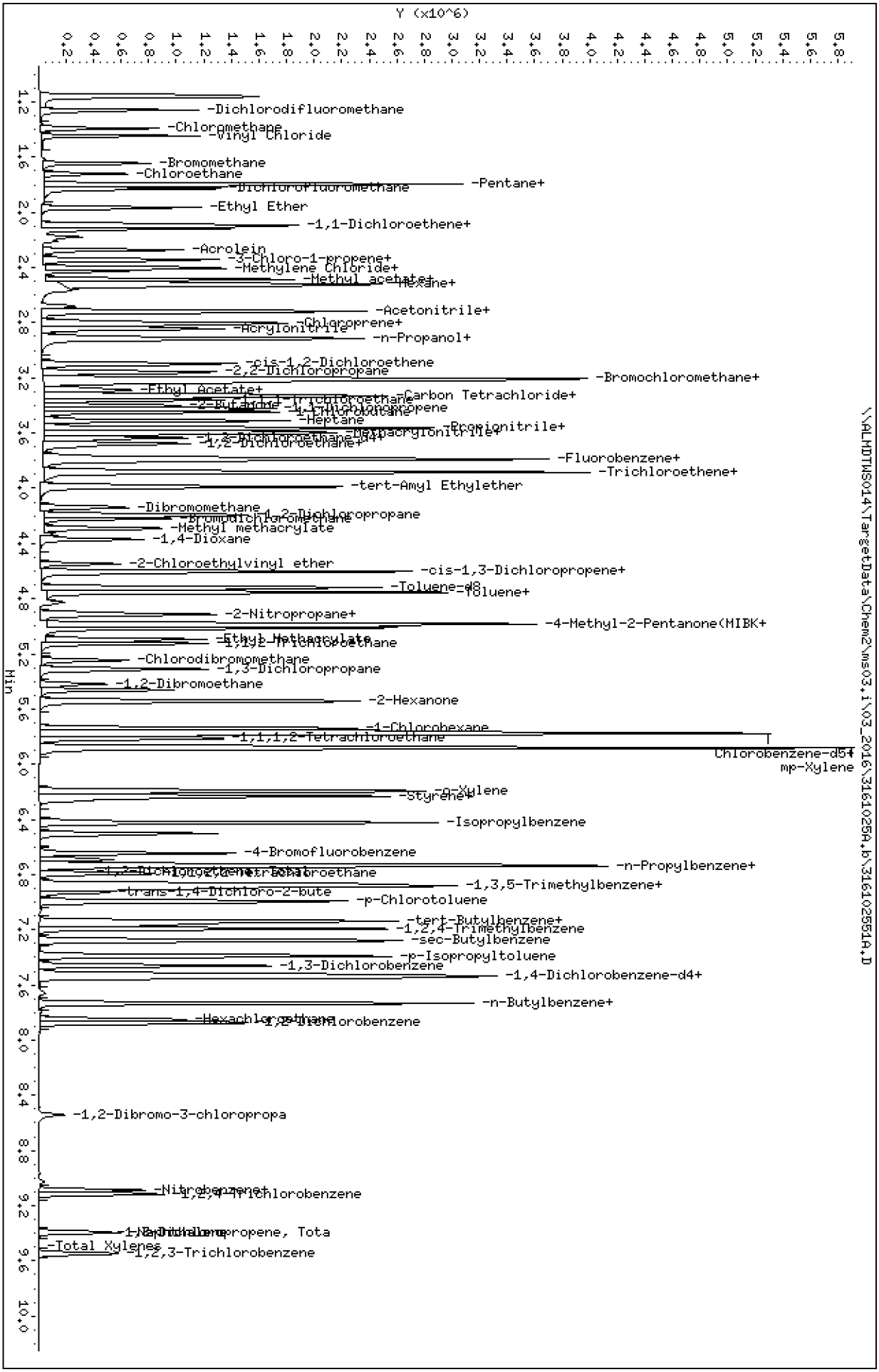
Data File: 316102551A.D Page 7
Report Date: 26-Oct-2016 10:32

ALS Environmental Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ms03.i Injection Date: 25-OCT-2016 21:59
Lab File ID: 316102551A.D Init. Cal. Date(s): 24-OCT-2016 25-OCT-2016
Analysis Type: WATER Init. Cal. Times: 23:25 01:36
Lab Sample ID: 1800 Quant Type: ISTD
Method: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b09.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
87 mp-Xylene	0.95563	0.87110	0.87110	0.010	-8.84584	100	Averaged
M 120 1,3-Dichloropropene, Total	0.75651	0.76337	0.76337	0.010	0.90764	100	Averaged
88 o-Xylene	0.84846	0.80645	0.80645	0.010	-4.95107	100	Averaged
89 Styrene	2.22497	2.14918	2.14918	0.010	-3.40651	100	Averaged
90 Bromoform	50.00000	44.56833	3.90618	0.100	-10.86333	100	Quadratic
91 Isopropylbenzene	3.63561	3.46374	3.46374	0.010	-4.72737	100	Averaged
$ 92 4-Bromofluorobenzene	50.00000	47.42882	1.69784	0.010	-5.14236	100	Linear
M 121 Total Xylenes	0.91991	0.84955	0.84955	0.010	-7.64842	100	Averaged
94 n-Propylbenzene	0.91933	0.88131	0.88131	0.010	-4.13624	100	Averaged
93 Bromobenzene	0.76216	0.67775	0.67775	0.010	-11.07447	100	Averaged
95 1,1,2,2-Tetrachloroethane	0.88166	0.79462	0.79462	0.300	-9.87213	100	Averaged
97 1,3,5-Trimethylbenzene	2.66203	2.60626	2.60626	0.010	-2.09507	100	Averaged
96 o-Chlorotoluene	2.85473	2.64073	2.64073	0.010	-7.49637	100	Averaged
98 1,2,3-Trichloropropane	0.26205	0.23054	0.23054	0.010	-12.02704	100	Averaged
99 trans-1,4-Dichloro-2-butene	0.21054	0.21641	0.21641	0.010	2.78898	100	Averaged
101 p-Chlorotoluene	2.60074	2.40708	2.40708	0.010	-7.44638	100	Averaged
102 tert-Butylbenzene	0.60281	0.57408	0.57408	0.010	-4.76666	100	Averaged
103 Pentachloroethane	0.50184	0.46430	0.46430	0.010	-7.47939	100	Averaged
104 1,2,4-Trimethylbenzene	2.60282	2.55004	2.55004	0.010	-2.02779	100	Averaged
105 sec-Butylbenzene	3.32864	3.28124	3.28124	0.010	-1.42426	100	Averaged
106 p-Isopropyltoluene	0.63420	0.64092	0.64092	0.010	1.05859	100	Averaged
107 1,3-Dichlorobenzene	50.00000	47.53683	0.84408	0.010	-4.92633	100	Quadratic
109 1,4-Dichlorobenzene	50.00000	47.63616	0.83460	0.010	-4.72769	100	Quadratic
111 n-Butylbenzene	0.55848	0.56623	0.56623	0.010	1.38768	100	Averaged
110 Benzyl Chloride	50.00000	47.57523	6.14241	0.010	-4.84955	100	Quadratic
112 Hexachloroethane	0.38753	0.35459	0.35459	0.010	-8.50137	100	Averaged
113 1,2-Dichlorobenzene	50.00000	47.12904	0.94622	0.010	-5.74192	100	Quadratic
114 1,2-Dibromo-3-chloropropane	50.00000	46.69574	11.39750	0.010	-6.60852	100	Quadratic
115 Nitrobenzene	500	371	267	0.000	-25.84452	100	Linear
116 Hexachlorobutadiene	50.00000	56.89634	4.21017	0.000	13.79267	100	Quadratic
117 1,2,4-Trichlorobenzene	50.00000	47.33810	2.20118	0.010	-5.32380	100	Quadratic
118 Naphthalene	50.00000	45.11160	1.24439	0.010	-9.77681	100	Quadratic
119 1,2,3-Trichlorobenzene	0.31153	0.28768	0.28768	0.010	-7.65701	100	Averaged


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Acrylonitrile+
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Carbon Tetrachloride+
-Heptane
-Propionitrile+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK+
-Ethyl Methacrylate
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-o-Xylene
-Styrene+
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,3,5-Trimethylbenzene+
-trans-1,4-Dichloro-2-bute
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-Nitrobenzene+
-1,2,4-Trichlorobenzene
-Total Xylenes
-1,2,3-Trichlorobenzene
Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3161025SLA.D
Date : 25-OCT-2016 21:59
Client ID:
Sample Info: 1800;1;2;4;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
\\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3161025SLA.D
Page 8

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 9

Date : 25-OCT-2016 21:59

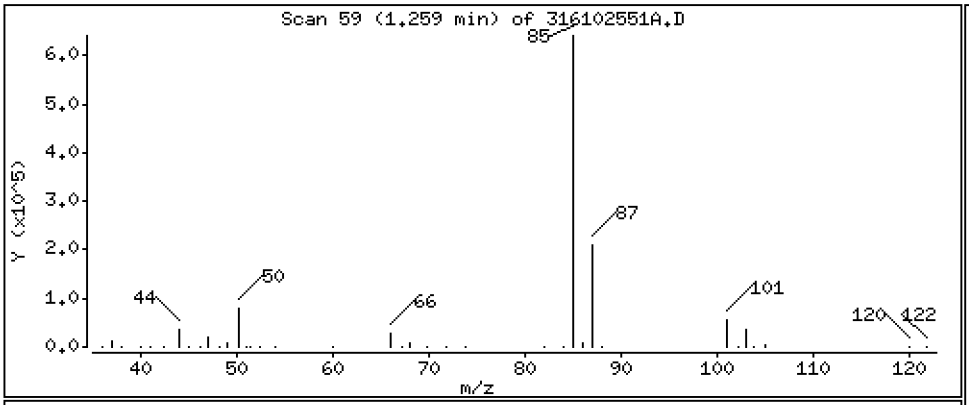
Client ID: Instrument: ms03.i

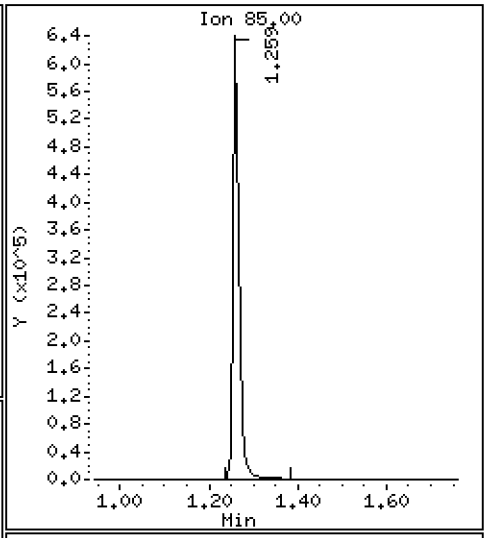
Sample Info: 1800;;1;2;4;;;

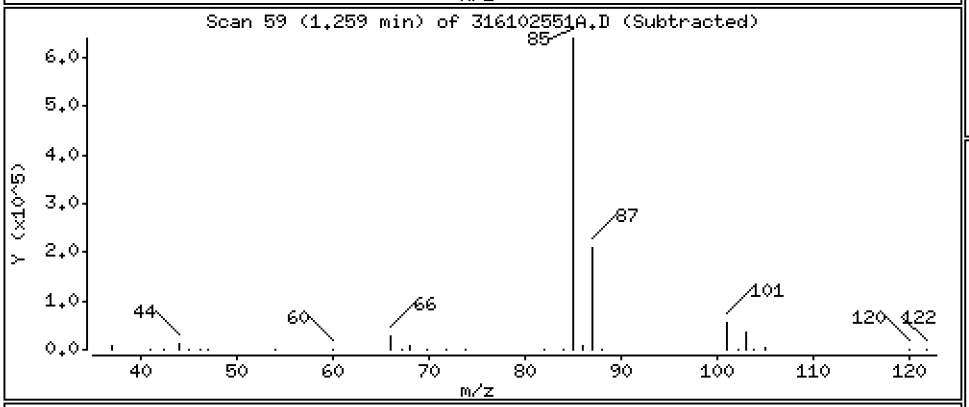
Purge Volume: 5.0 Operator: CJG

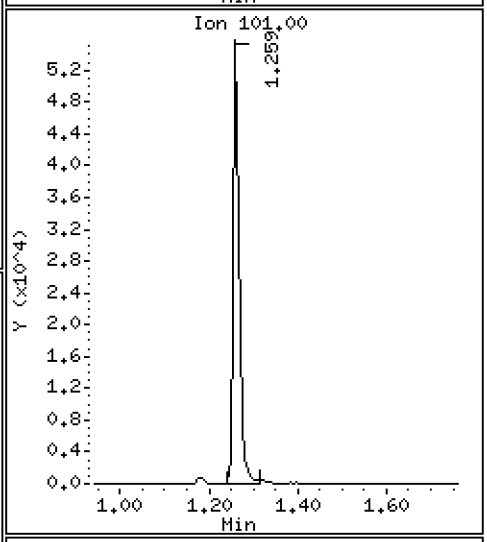
Column phase: DB-VRX Column diameter: 0.25

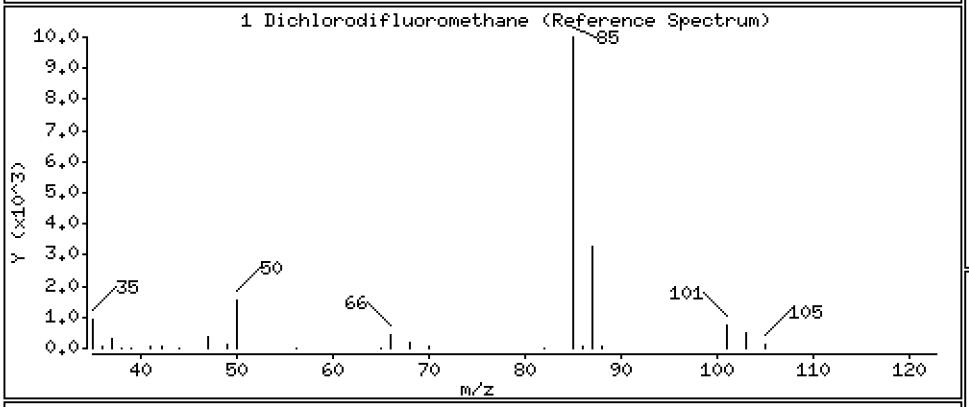
1 Dichlorodifluoromethane Concentration: 48.9394 ug/L

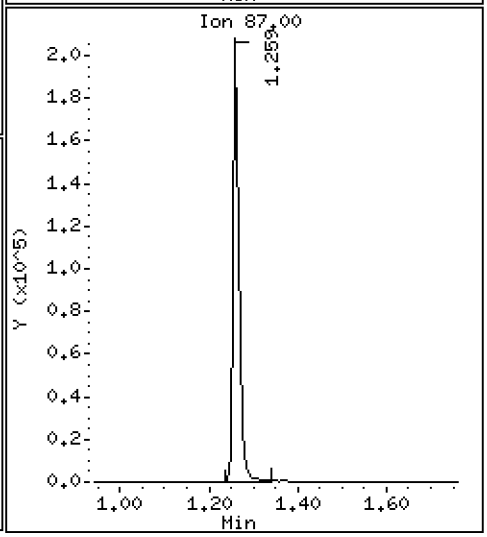


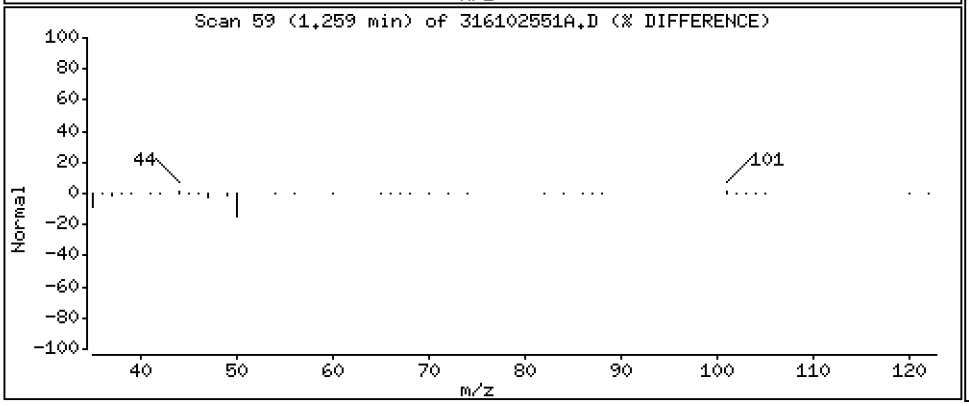












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 10

Date : 25-OCT-2016 21:59

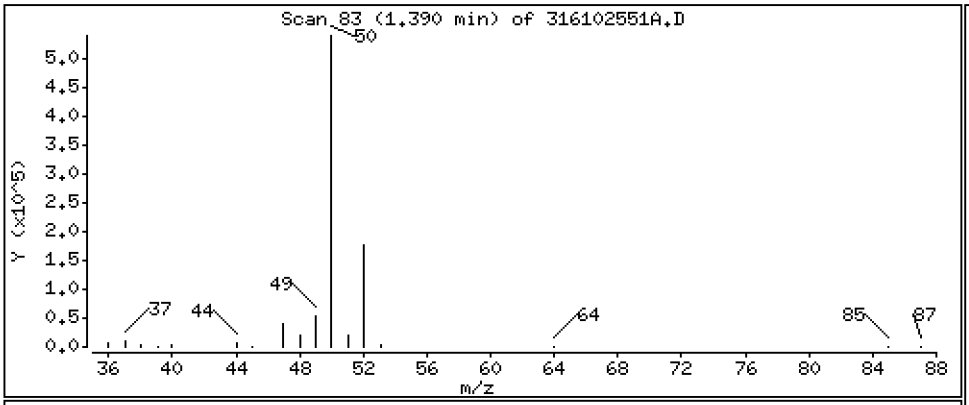
Client ID: Instrument: ms03.i

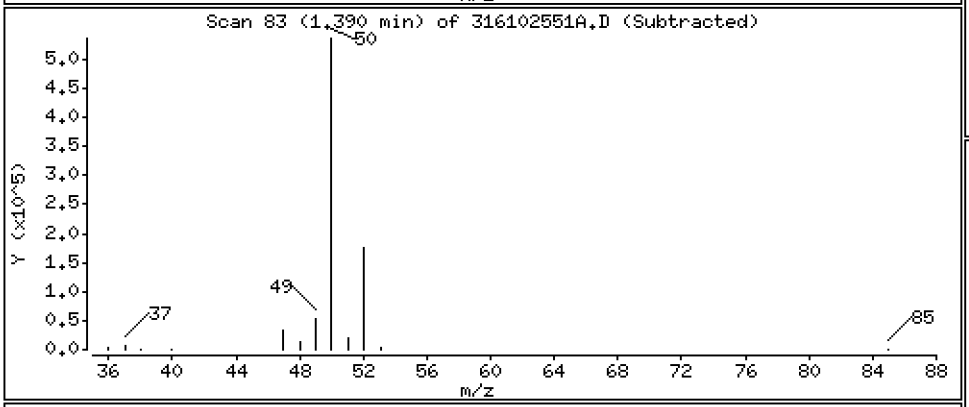
Sample Info: 1800;;1;2;4;;;

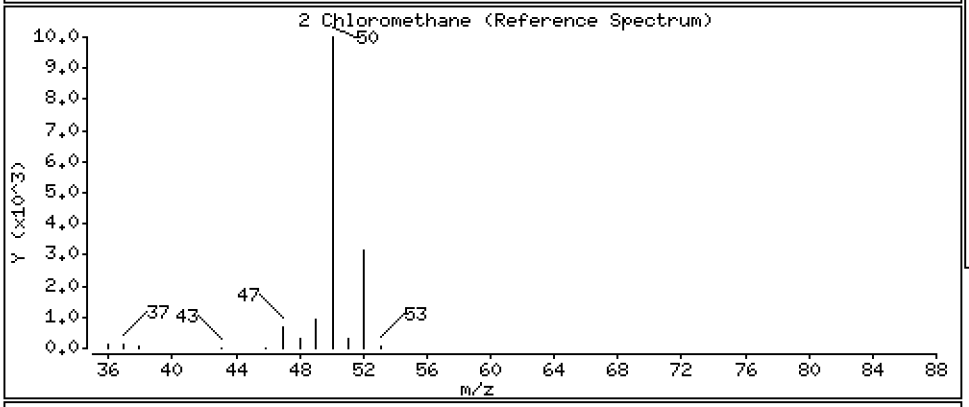
Purge Volume: 5.0 Operator: CJG

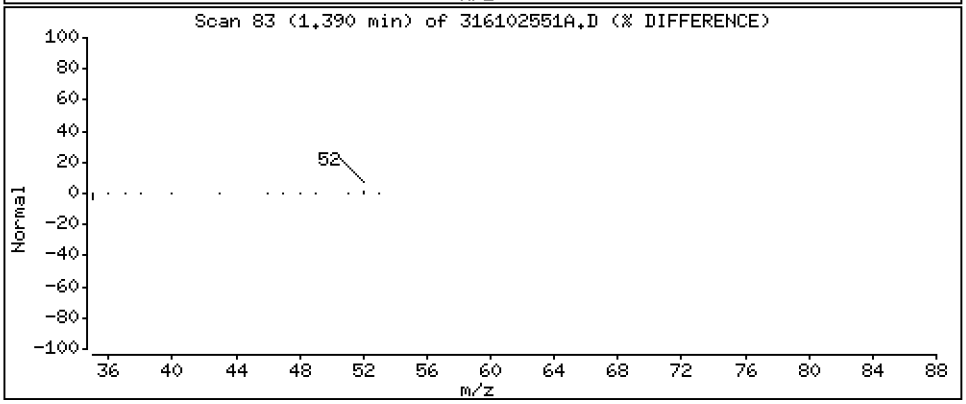
Column phase: DB-VRX Column diameter: 0.25

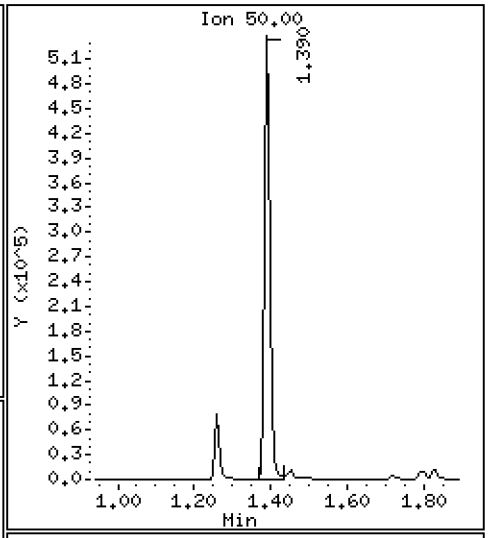
2 Chloromethane Concentration: 50.7476 ug/L

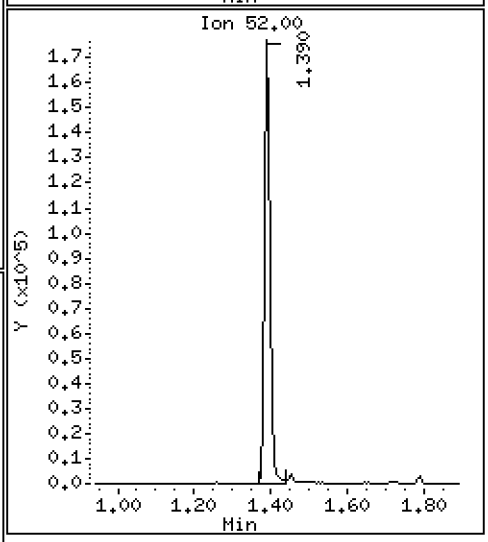












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 11

Date : 25-OCT-2016 21:59

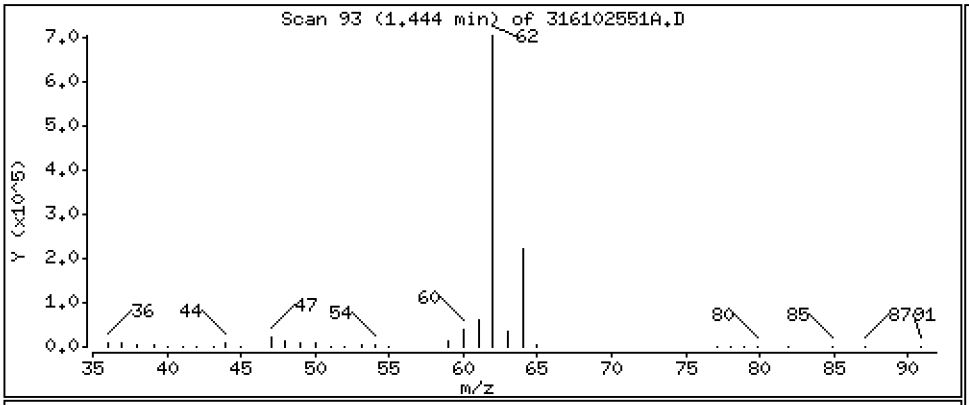
Client ID: Instrument: ms03.i

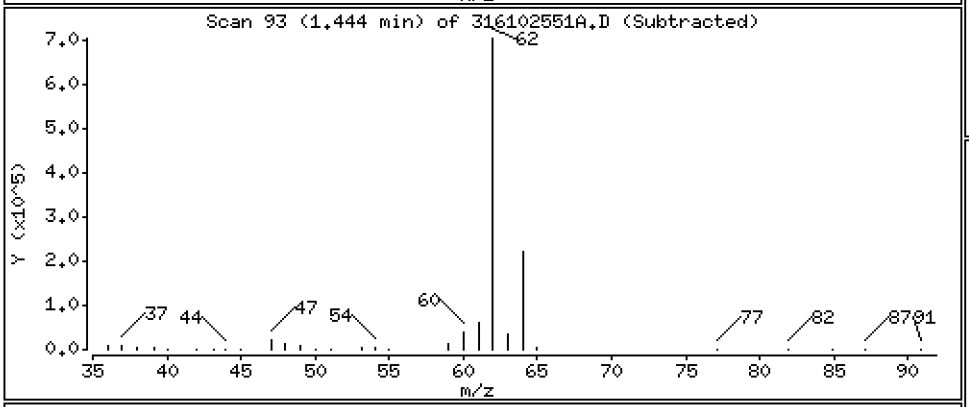
Sample Info: 1800;;1;2;4;;;

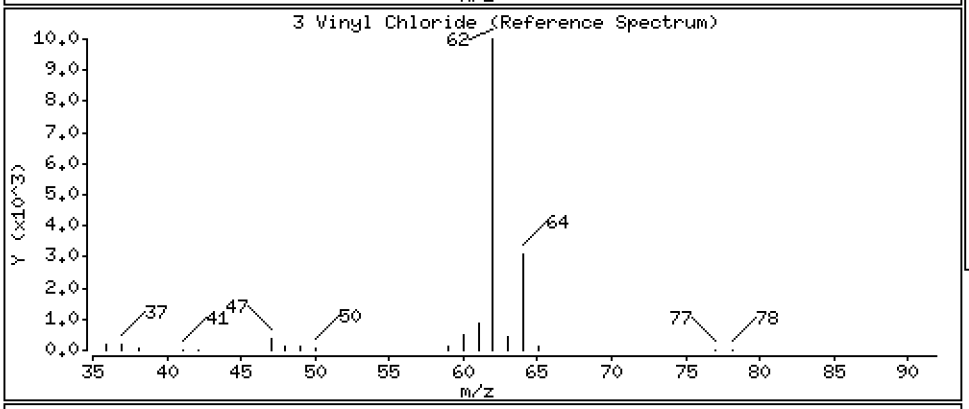
Purge Volume: 5.0 Operator: CJG

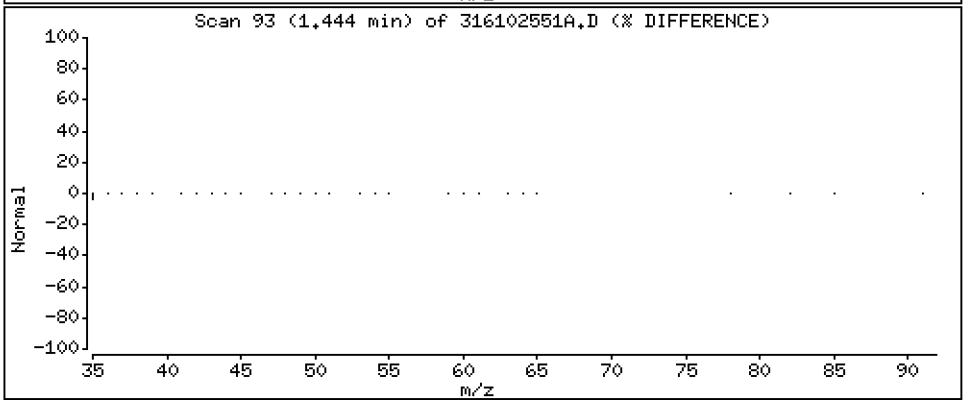
Column phase: DB-VRX Column diameter: 0.25

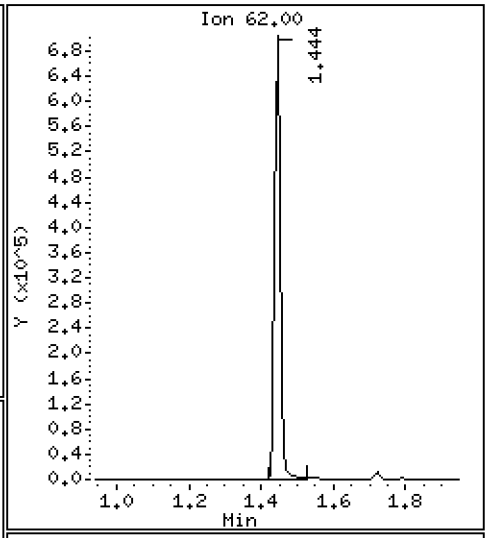
3 Vinyl Chloride Concentration: 49.8621 ug/L

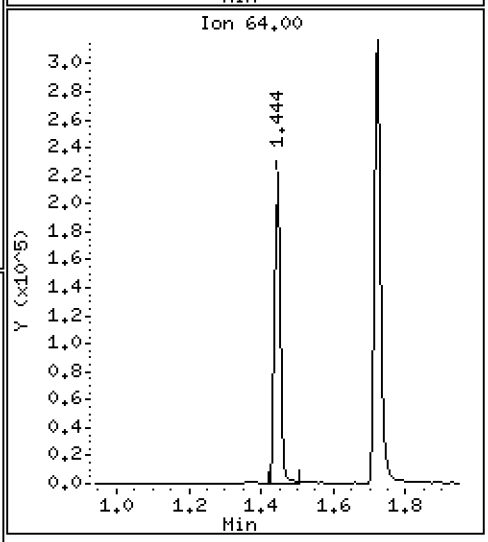












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 12

Date : 25-OCT-2016 21:59

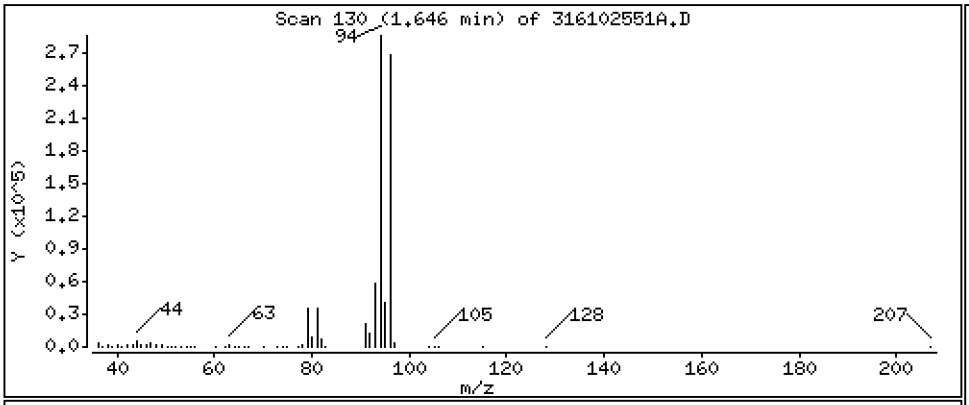
Client ID: Instrument: ms03.i

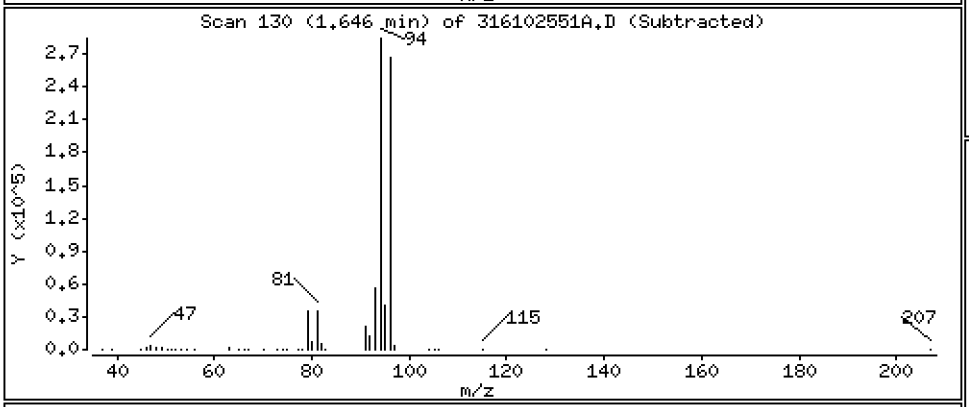
Sample Info: 1800;;1;2;4;;;

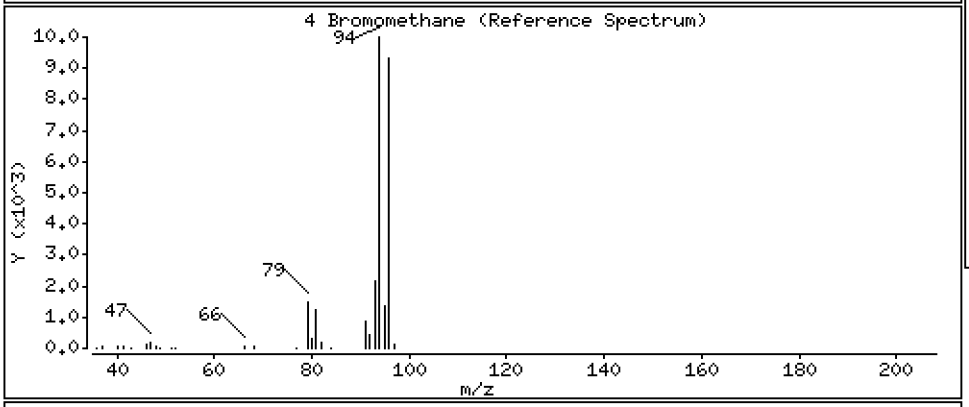
Purge Volume: 5.0 Operator: CJG

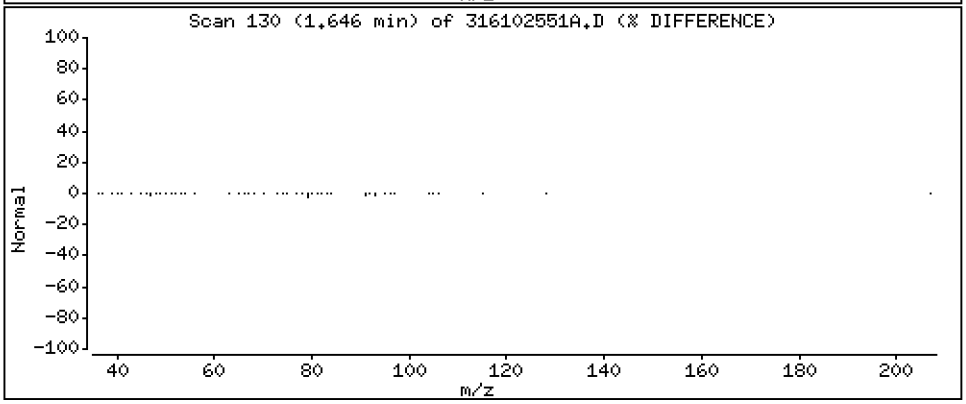
Column phase: DB-VRX Column diameter: 0.25

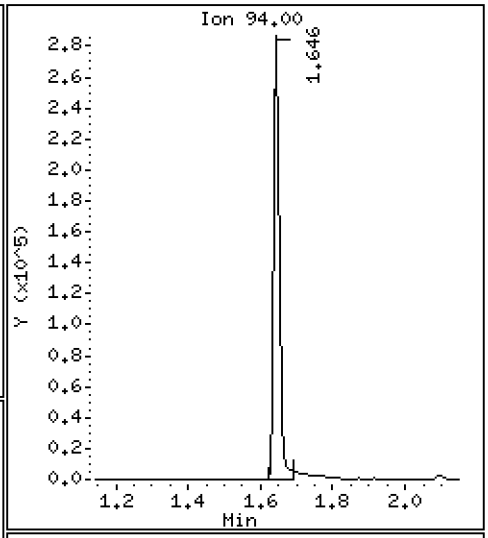
4 Bromomethane Concentration: 49.9655 ug/L

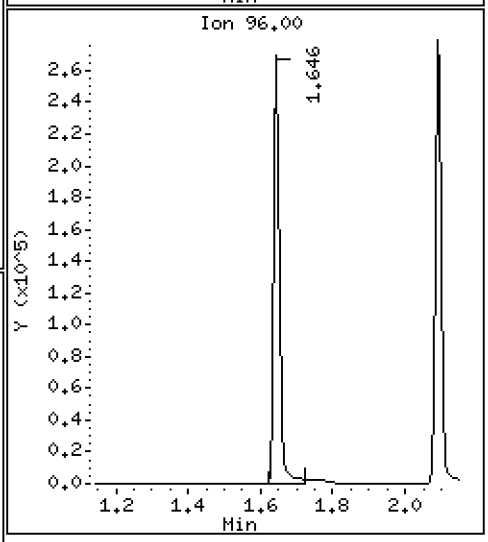












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 13

Date : 25-OCT-2016 21:59

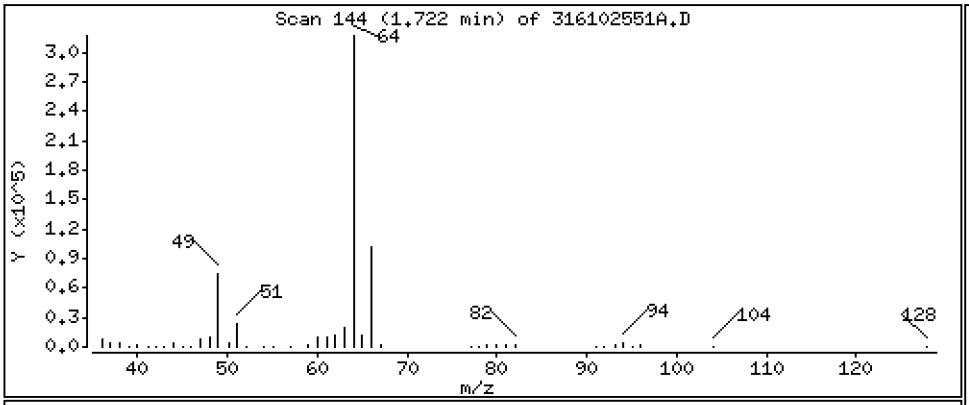
Client ID: Instrument: ms03.i

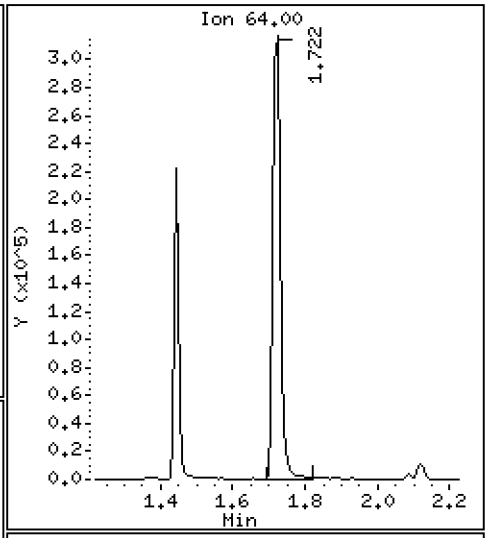
Sample Info: 1800;;1;2;4;;;

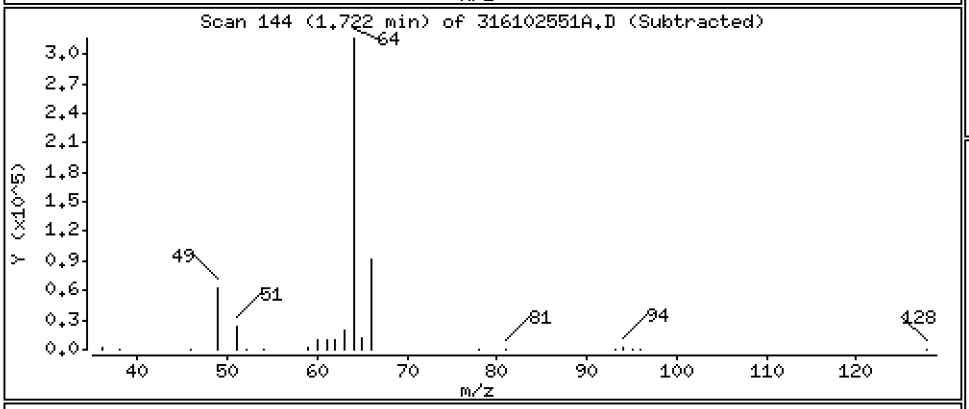
Purge Volume: 5.0 Operator: CJG

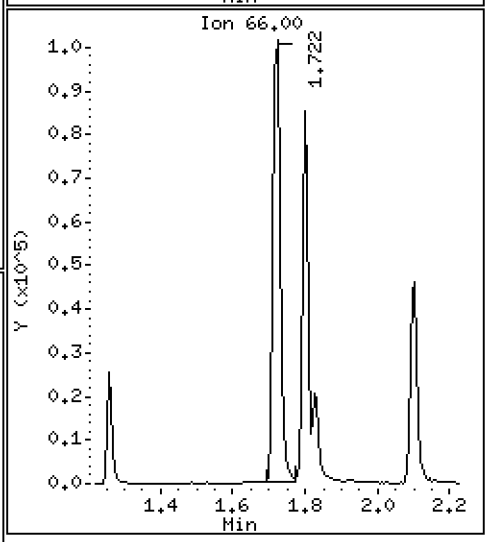
Column phase: DB-VRX Column diameter: 0.25

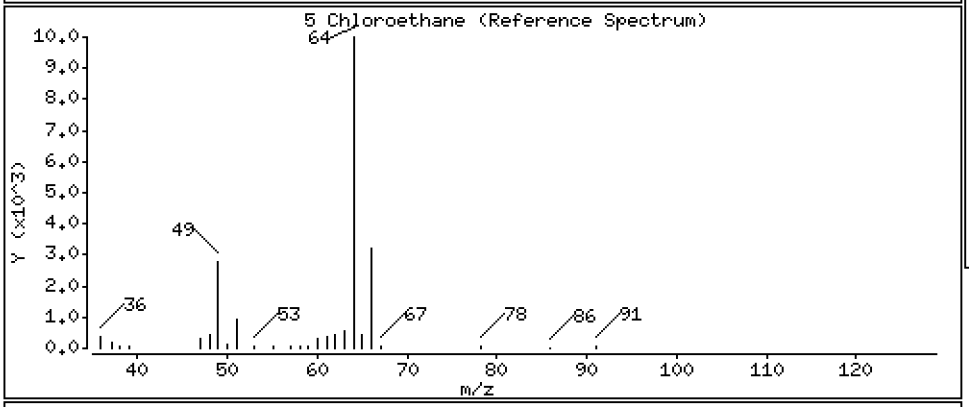
5 Chloroethane Concentration: 49.8821 ug/L

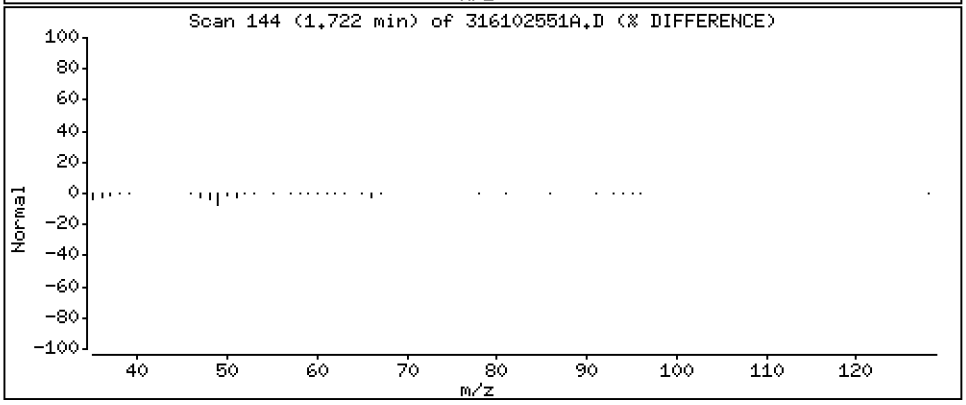












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 14

Date : 25-OCT-2016 21:59

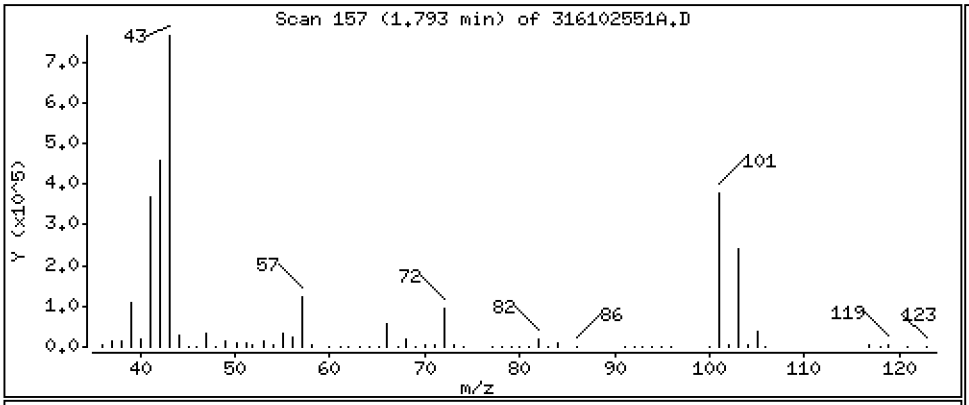
Client ID: Instrument: ms03.i

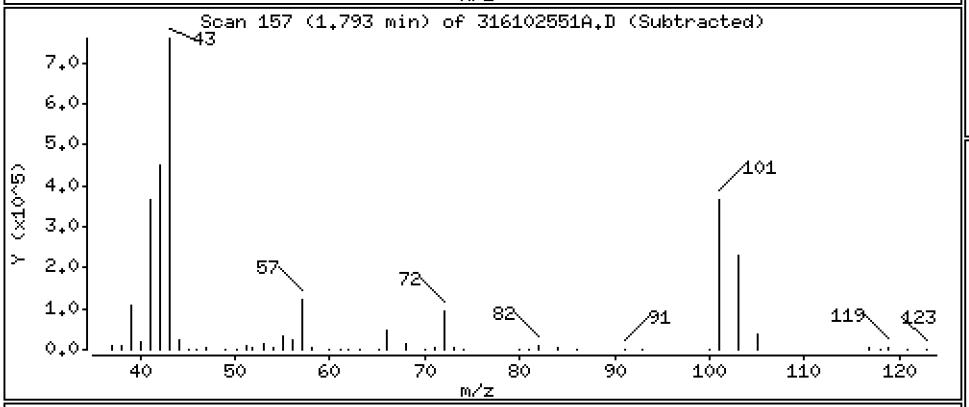
Sample Info: 1800;;1;2;4;;;

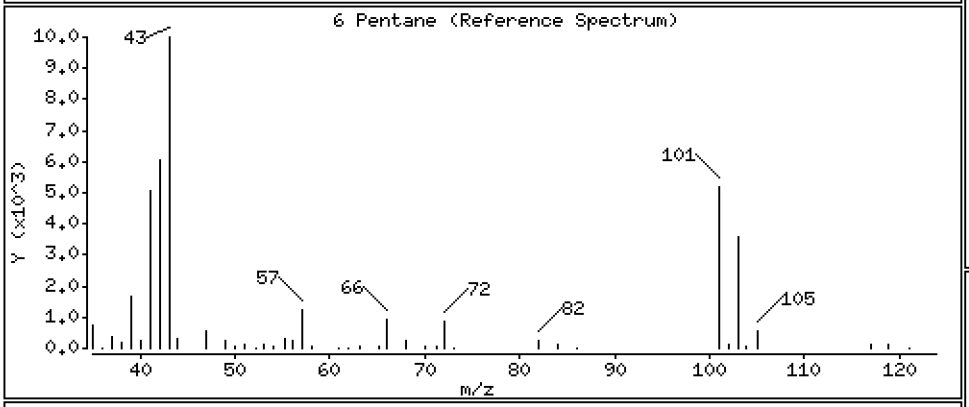
Purge Volume: 5.0 Operator: CJG

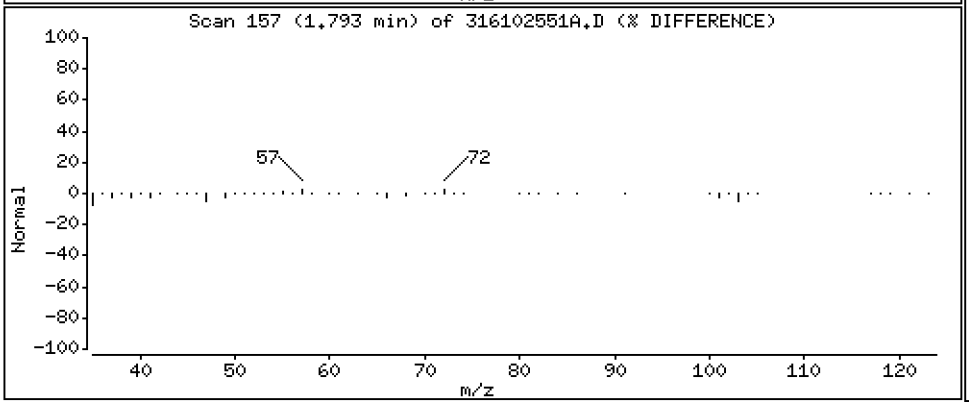
Column phase: DB-VRX Column diameter: 0.25

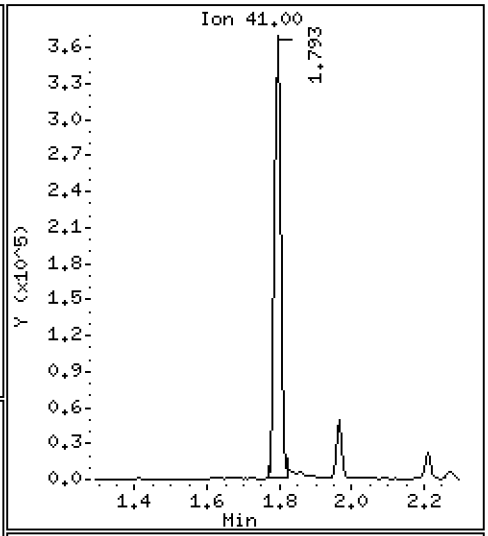
6 Pentane Concentration: 54.9213 ug/L

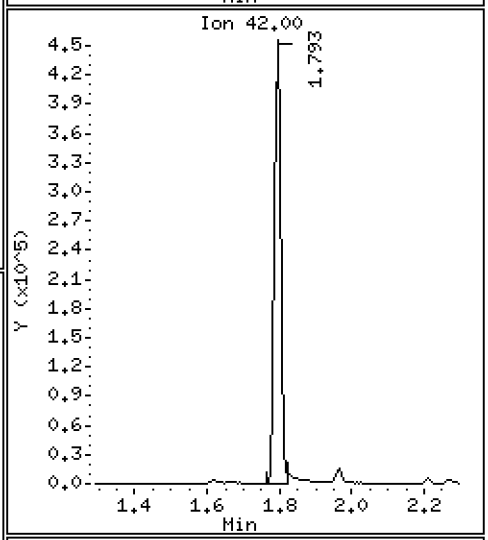


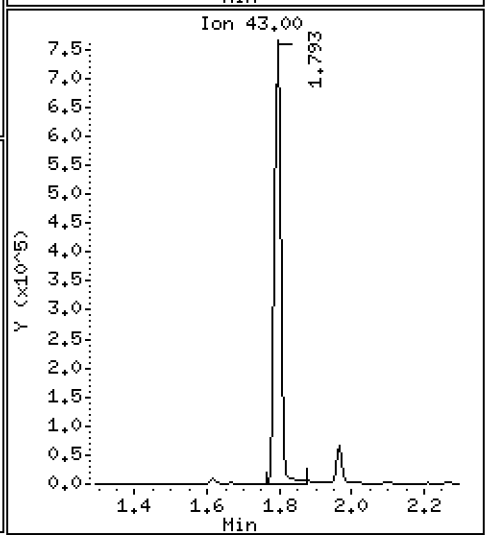












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 15

Date : 25-OCT-2016 21:59

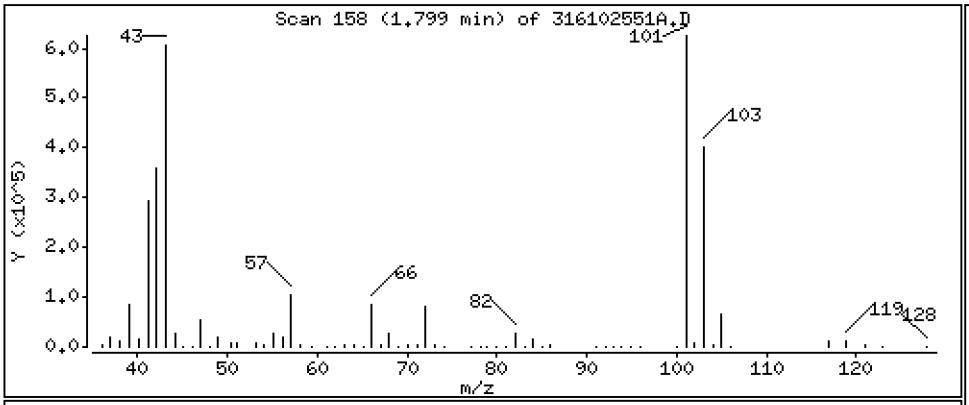
Client ID: Instrument: ms03.i

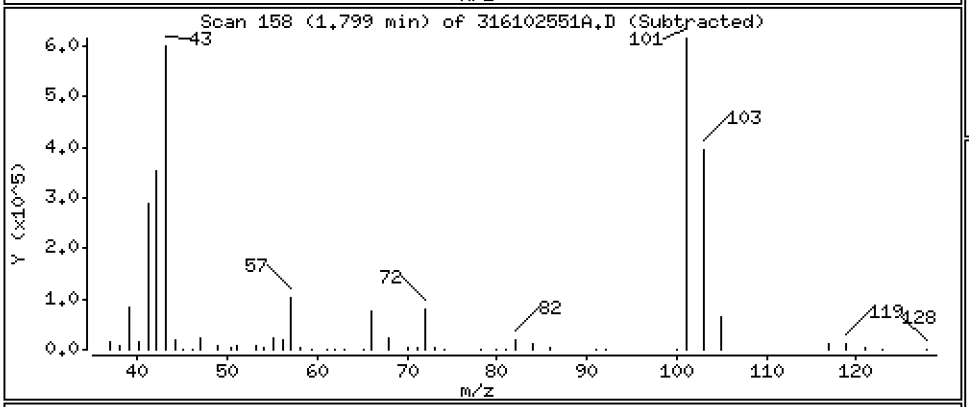
Sample Info: 1800;;1;2;4;;;

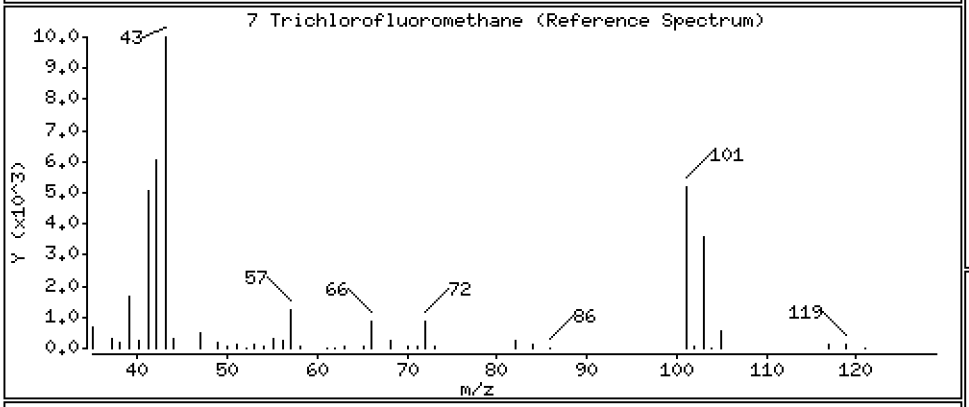
Purge Volume: 5.0 Operator: CJG

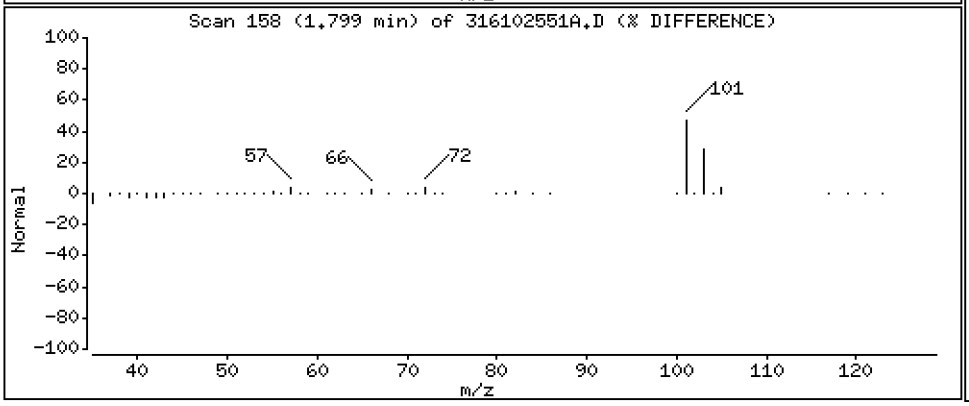
Column phase: DB-VRX Column diameter: 0.25

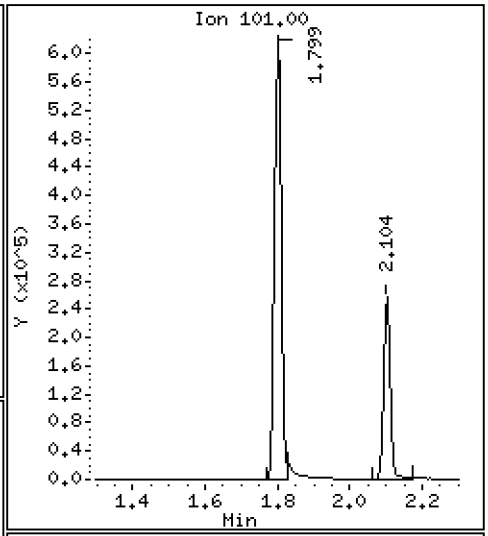
7 Trichlorofluoromethane Concentration: 48.3790 ug/L

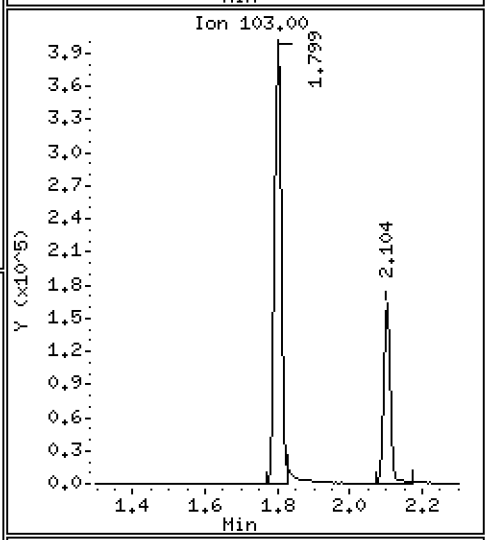


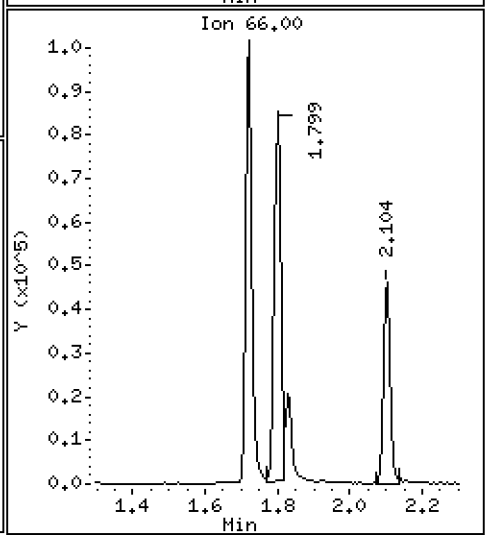












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 16

Date : 25-OCT-2016 21:59

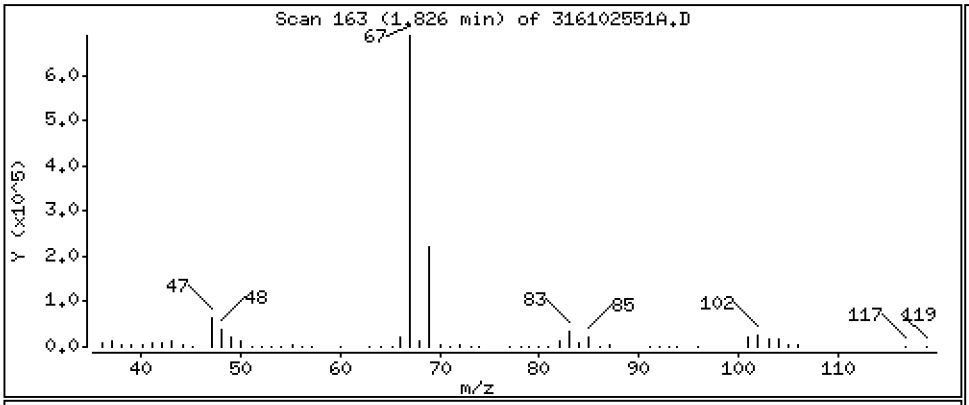
Client ID: Instrument: ms03.i

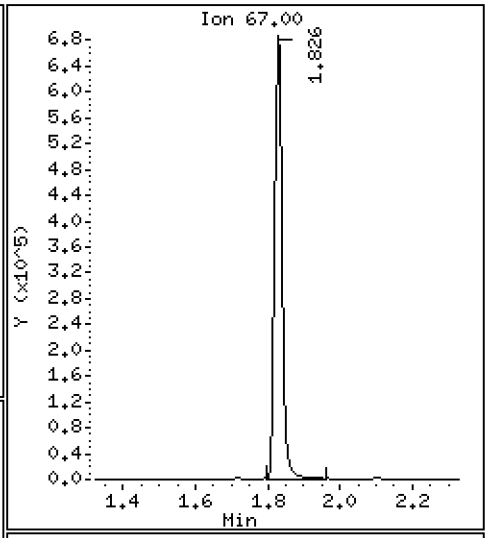
Sample Info: 1800;;1;2;4;;;

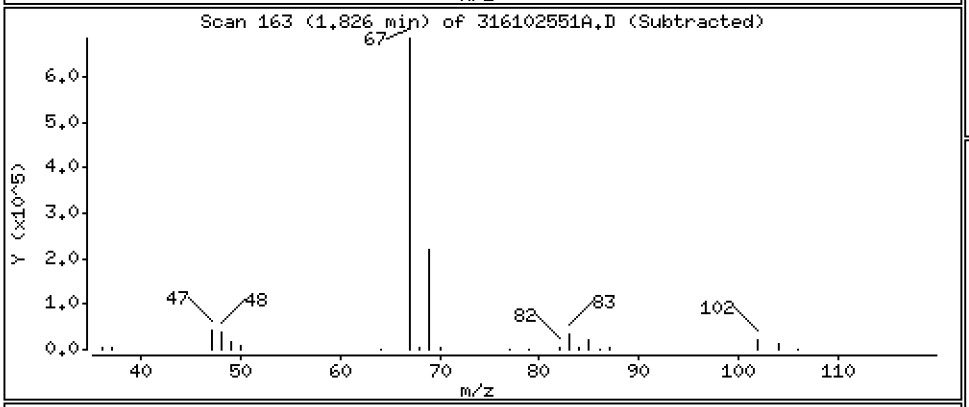
Purge Volume: 5.0 Operator: CJG

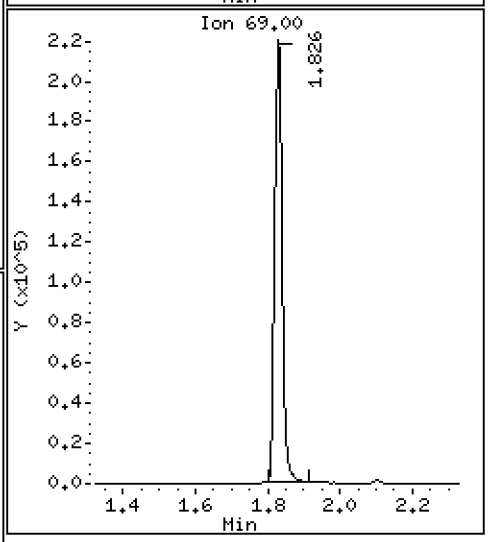
Column phase: DB-VRX Column diameter: 0.25

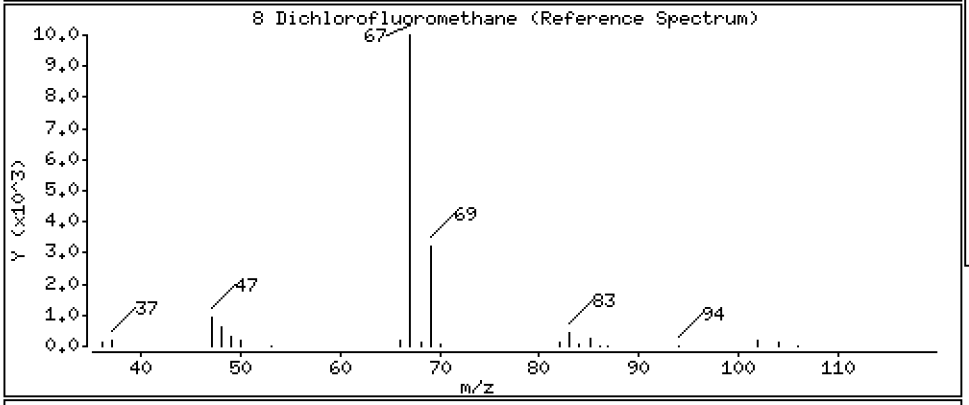
8 Dichlorofluoromethane Concentration: 44.3253 ug/L

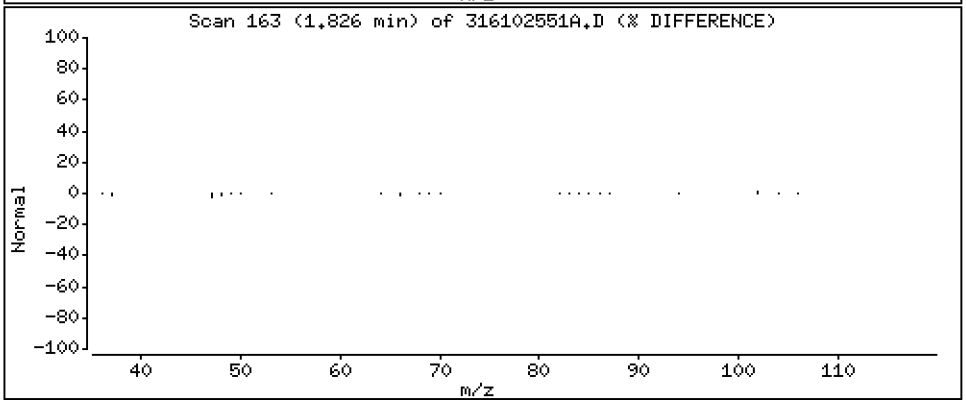












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 17

Date : 25-OCT-2016 21:59

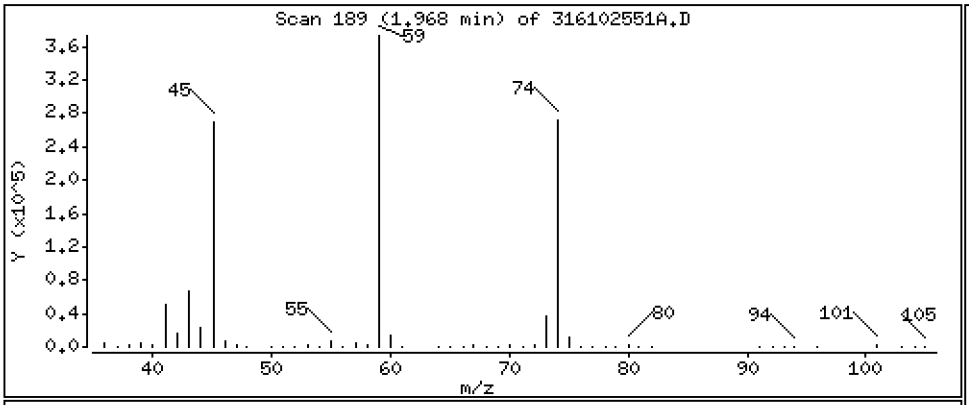
Client ID: Instrument: ms03.i

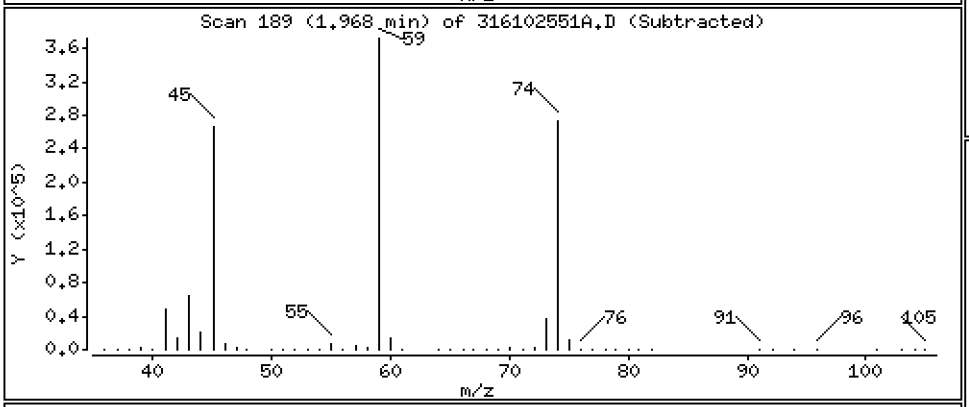
Sample Info: 1800;;1;2;4;;;

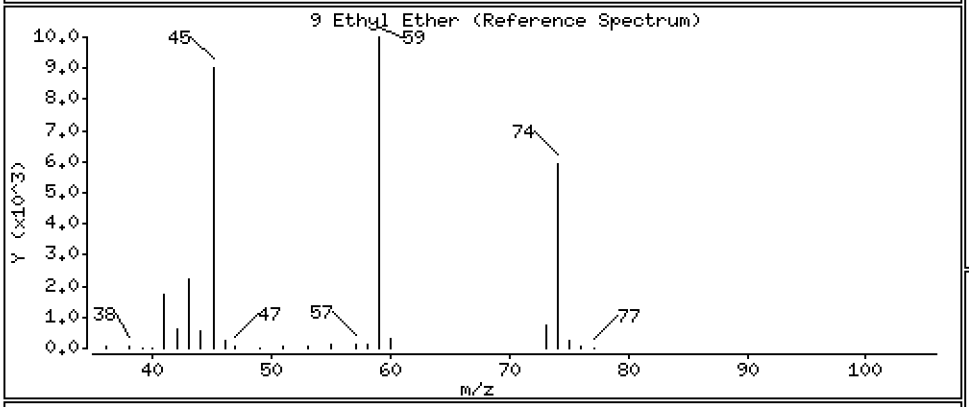
Purge Volume: 5.0 Operator: CJG

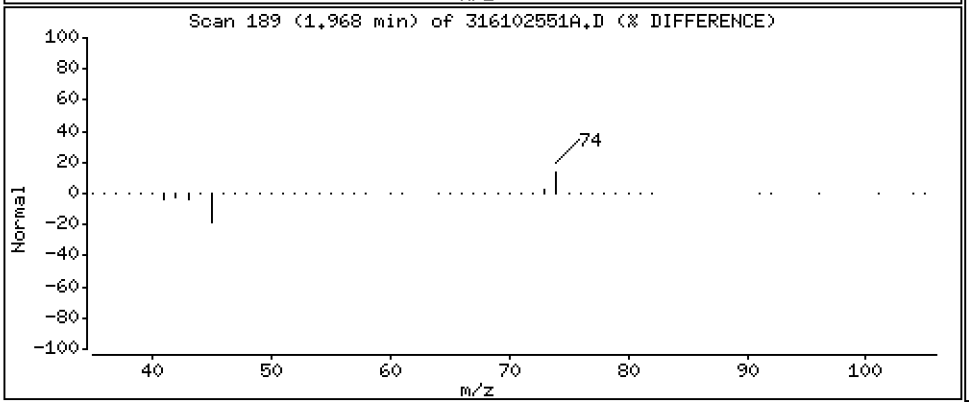
Column phase: DB-VRX Column diameter: 0.25

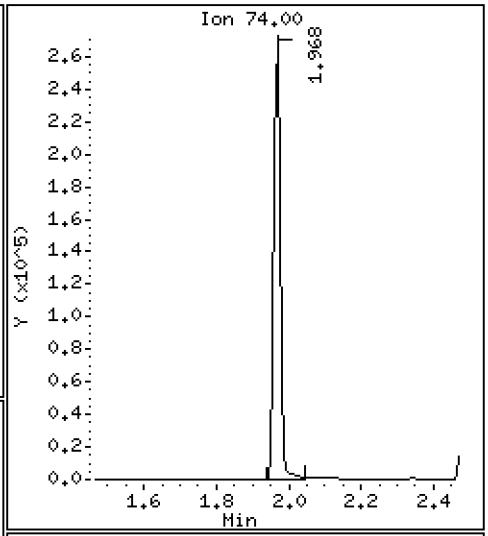
9 Ethyl Ether Concentration: 43.9792 ug/L

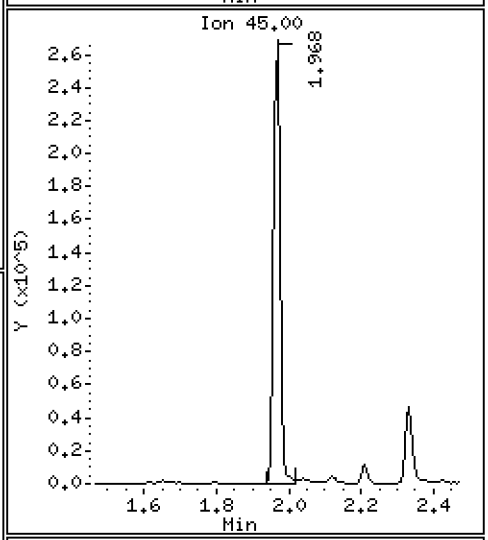


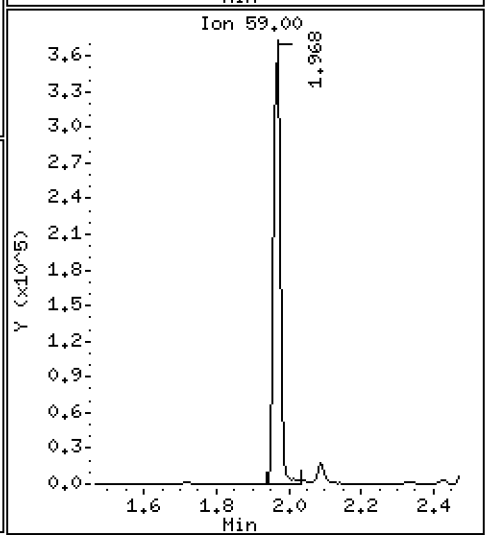












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 18

Date : 25-OCT-2016 21:59

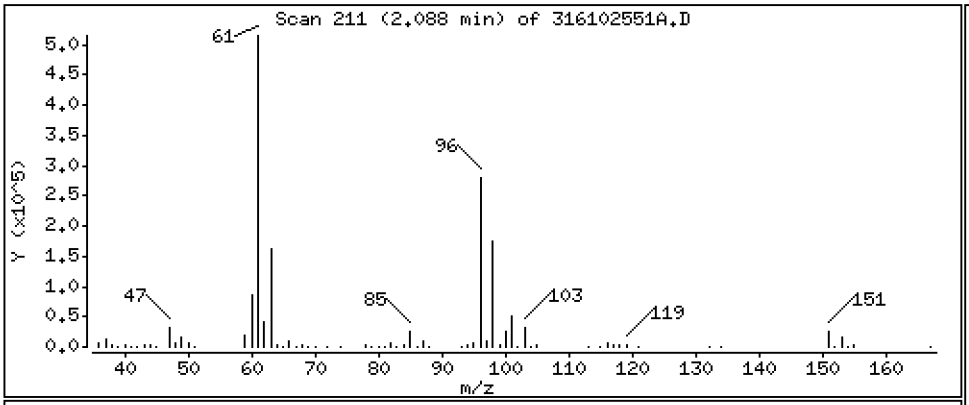
Client ID: Instrument: ms03.i

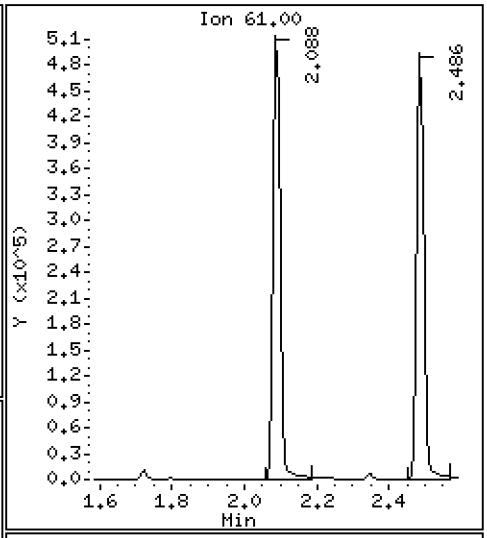
Sample Info: 1800;;1;2;4;;;

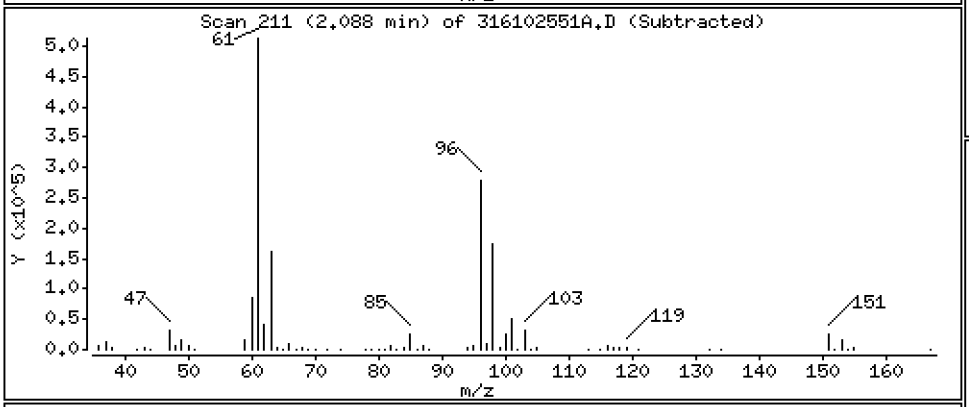
Purge Volume: 5.0 Operator: CJG

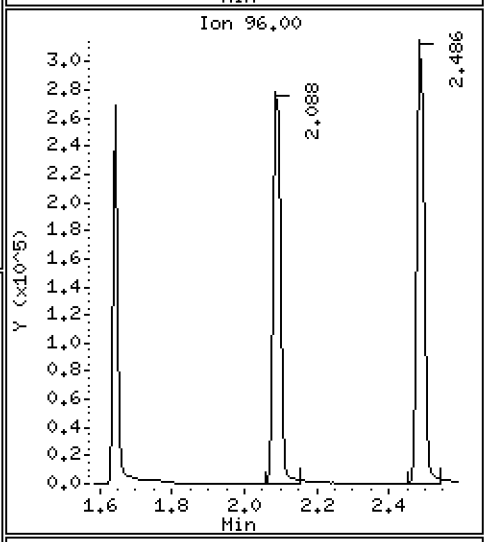
Column phase: DB-VRX Column diameter: 0.25

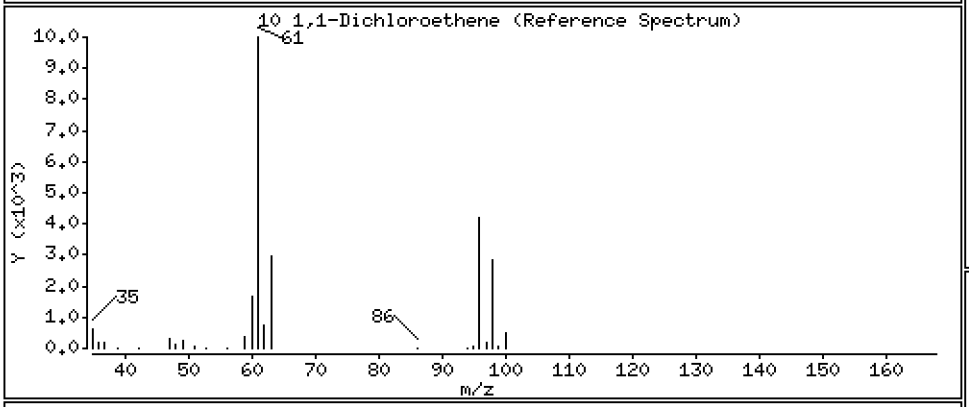
10 1,1-Dichloroethene Concentration: 45.2541 ug/L

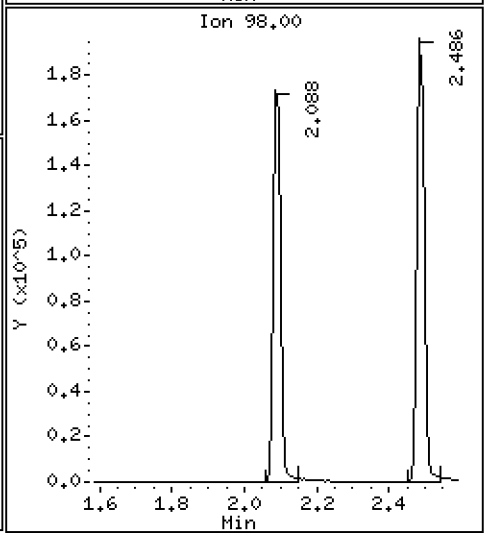


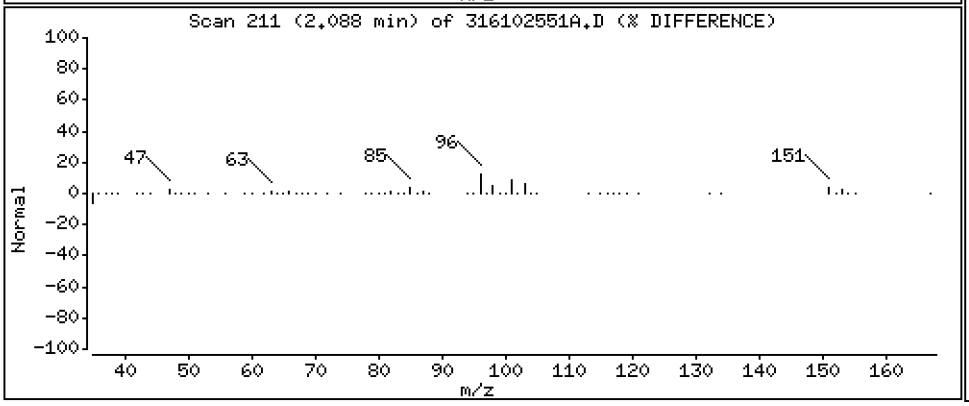












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 19

Date : 25-OCT-2016 21:59

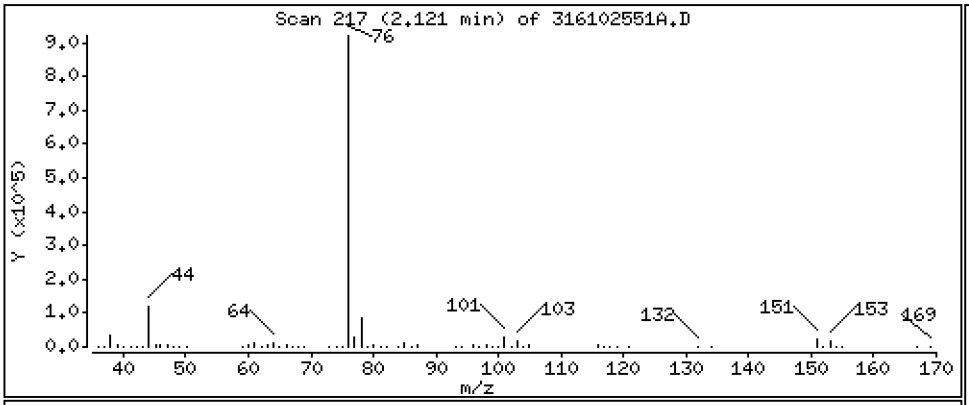
Client ID: Instrument: ms03.i

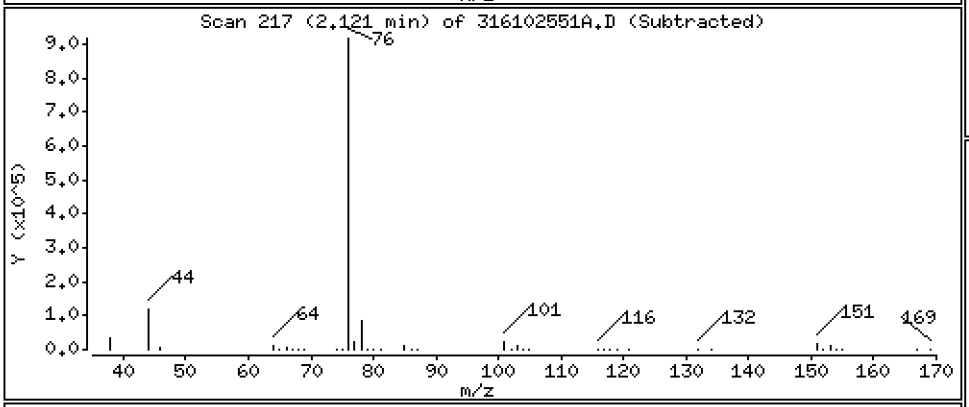
Sample Info: 1800;;1;2;4;;;

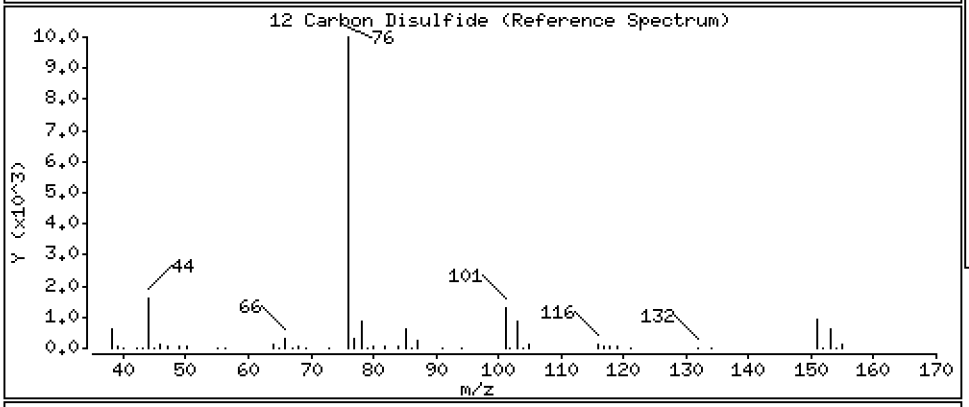
Purge Volume: 5.0 Operator: CJG

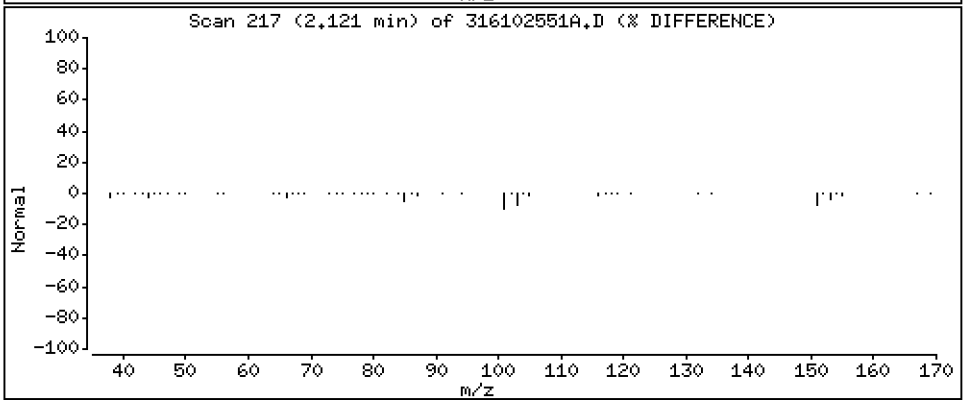
Column phase: DB-VRX Column diameter: 0.25

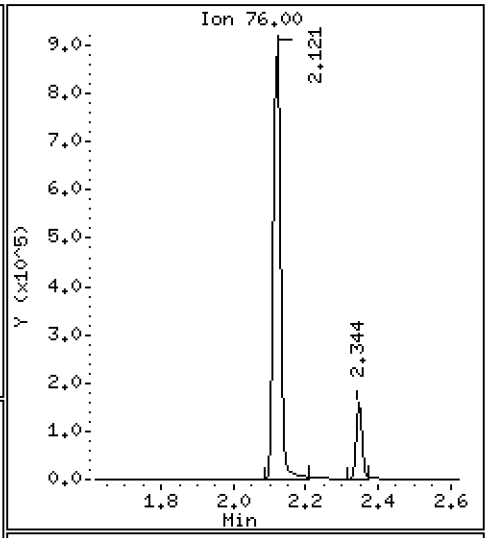
12 Carbon Disulfide Concentration: 46.7660 ug/L

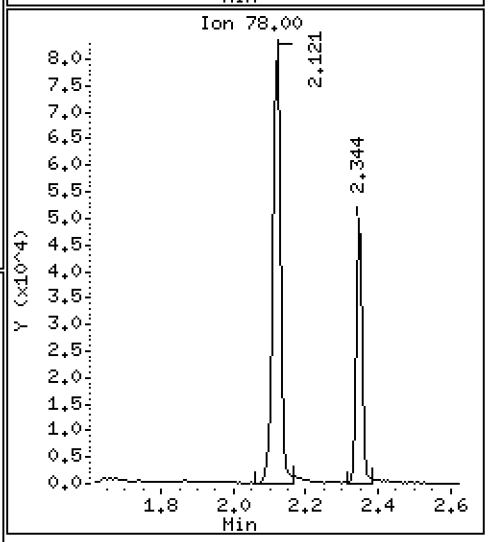












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 20

Date : 25-OCT-2016 21:59

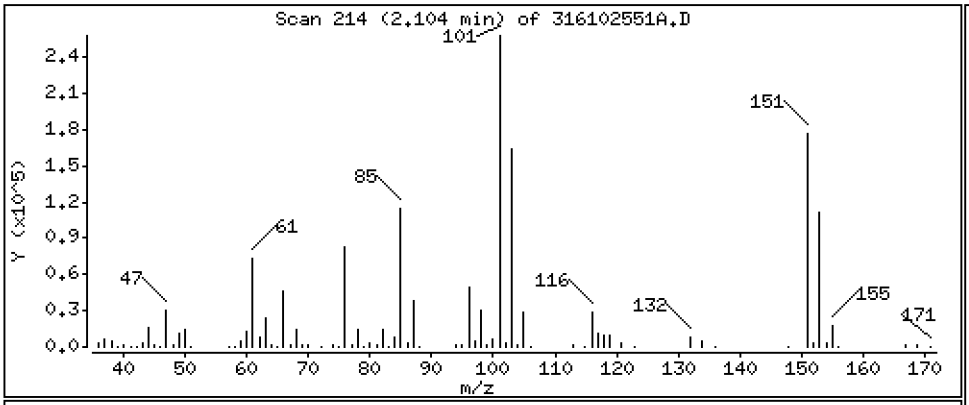
Client ID: Instrument: ms03.i

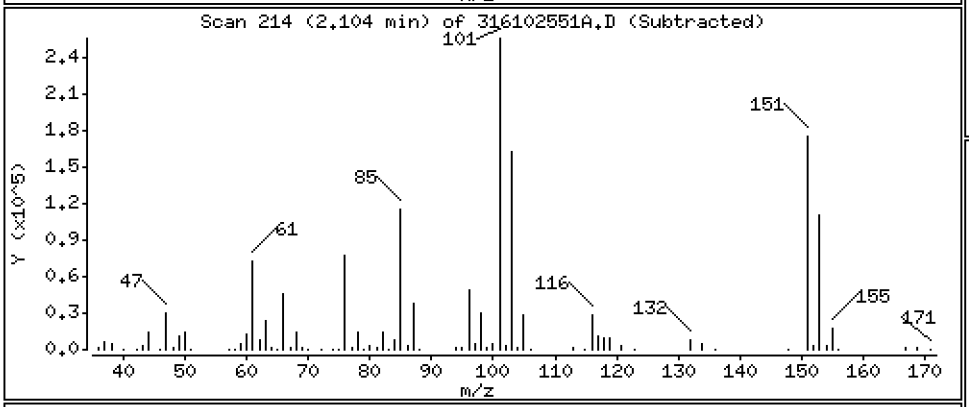
Sample Info: 1800;;1;2;4;;;

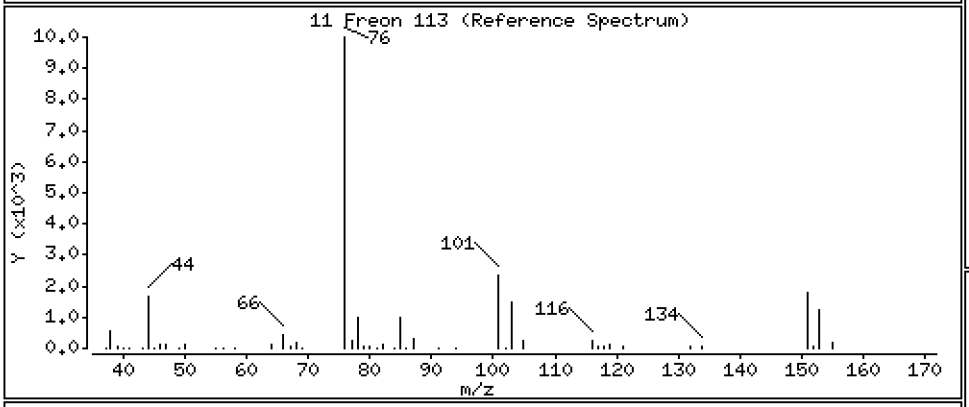
Purge Volume: 5.0 Operator: CJG

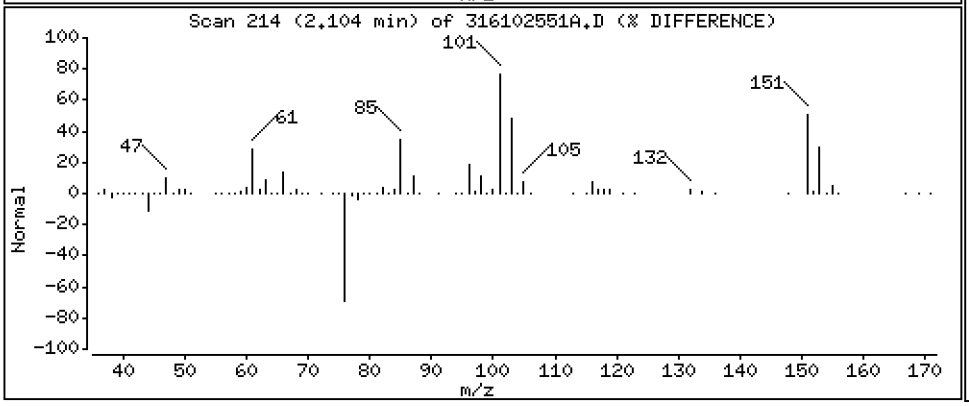
Column phase: DB-VRX Column diameter: 0.25

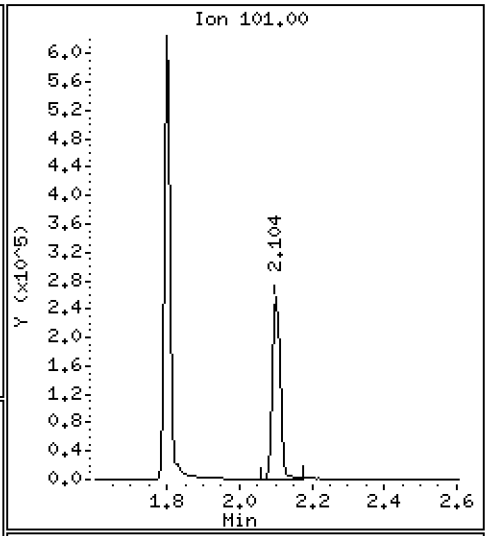
11 Freon 113 Concentration: 45.3828 ug/L

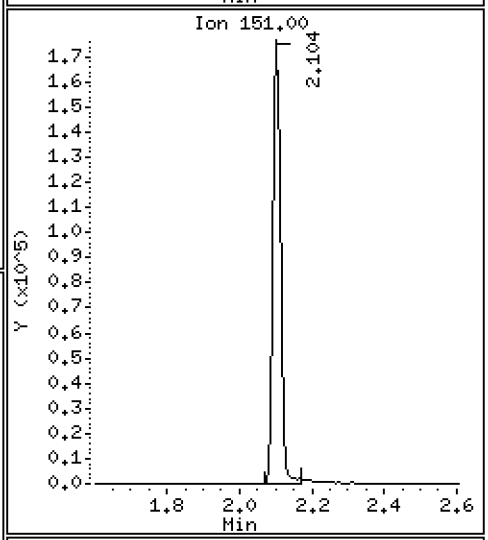


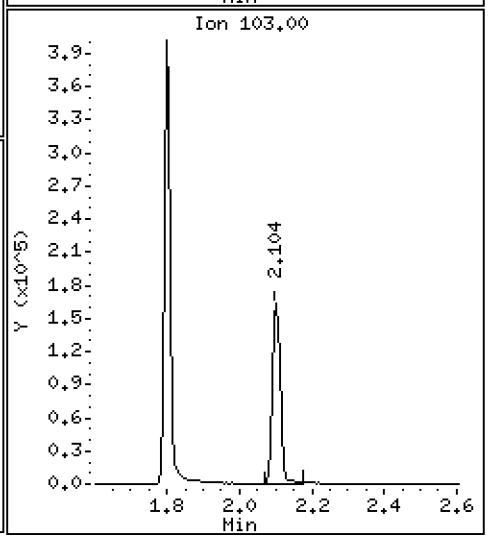












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 21

Date : 25-OCT-2016 21:59

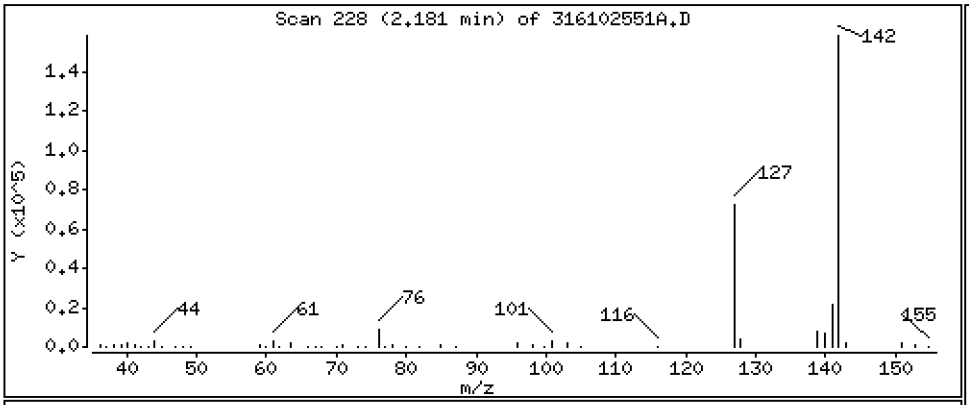
Client ID: Instrument: ms03.i

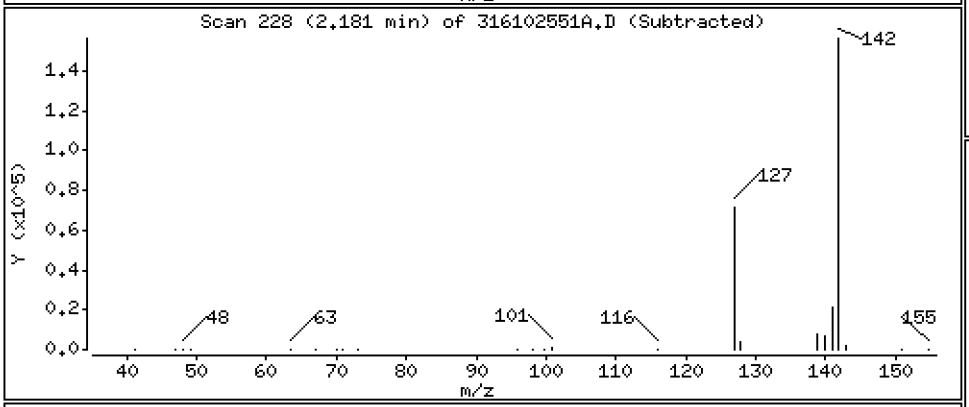
Sample Info: 1800;;1;2;4;;;

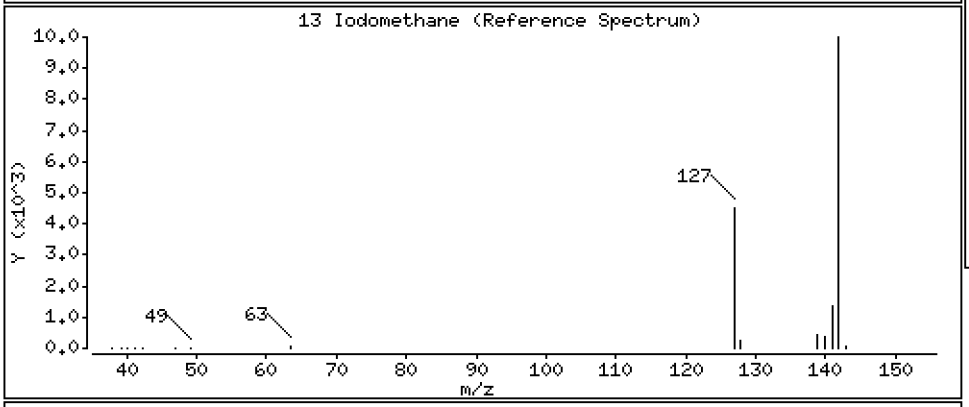
Purge Volume: 5.0 Operator: CJG

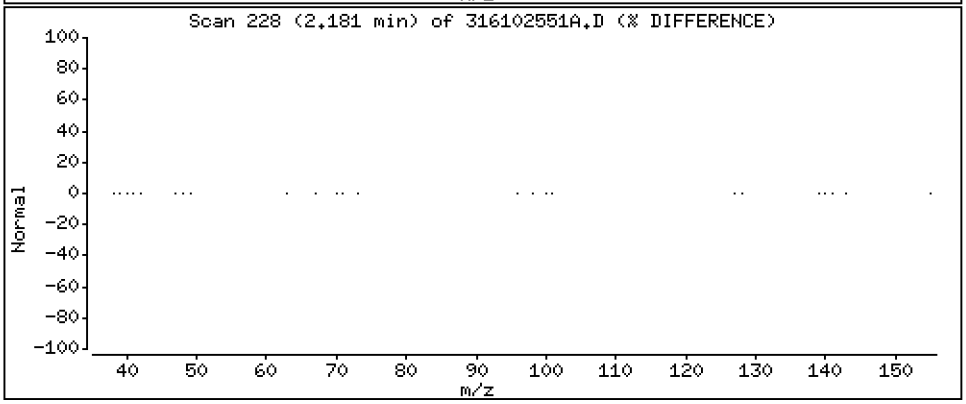
Column phase: DB-VRX Column diameter: 0.25

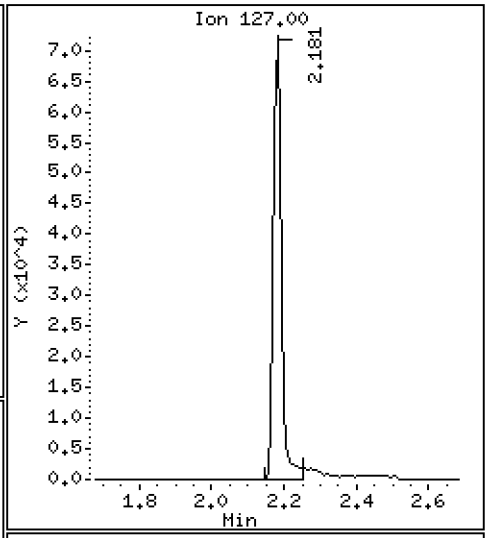
13 Iodomethane Concentration: 47.3738 ug/L

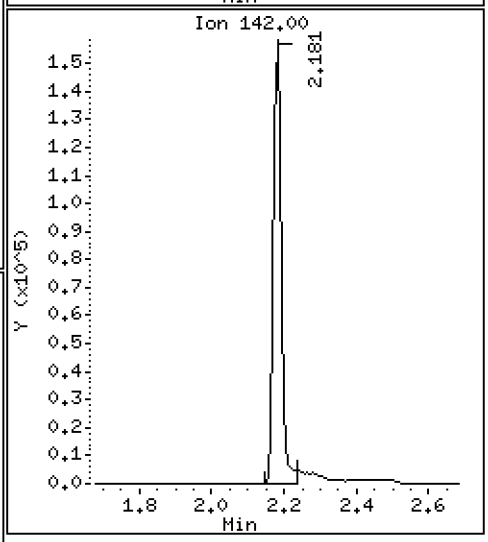












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 22

Date : 25-OCT-2016 21:59

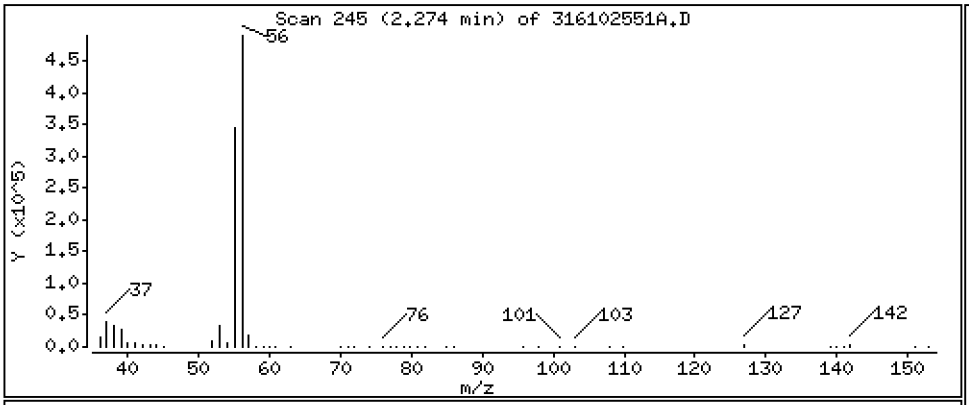
Client ID: Instrument: ms03.i

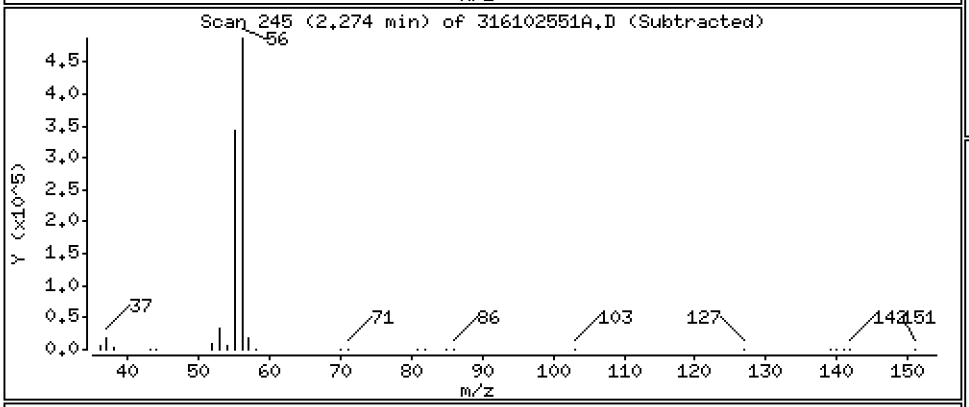
Sample Info: 1800;;1;2;4;;;

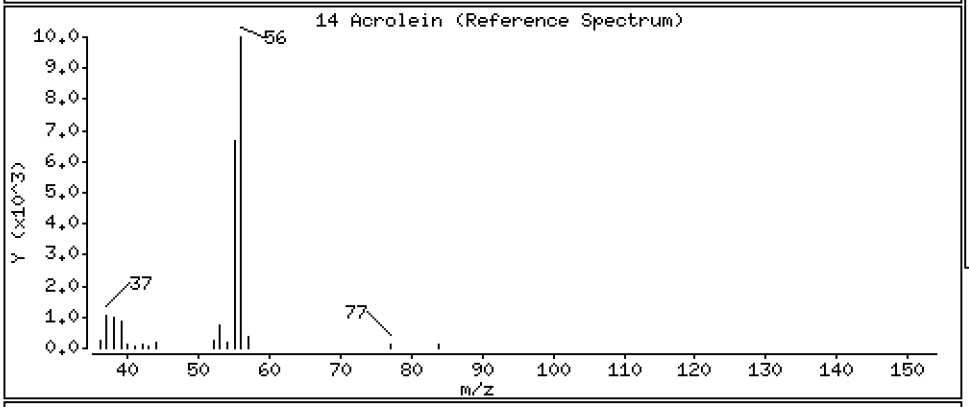
Purge Volume: 5.0 Operator: CJG

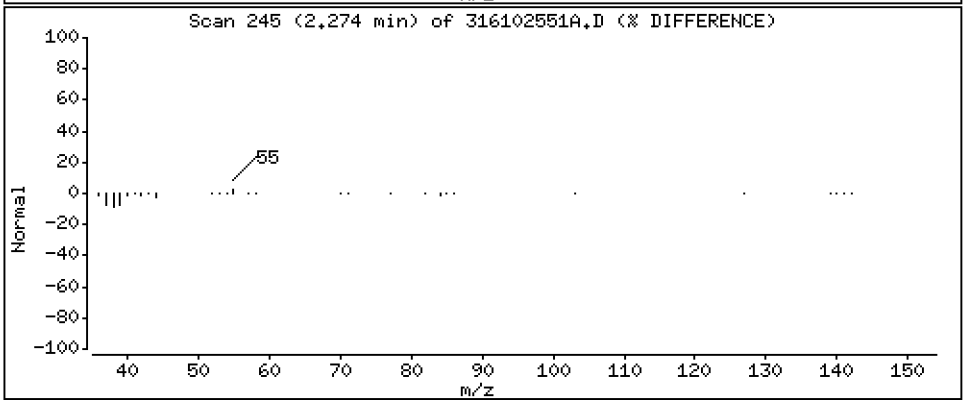
Column phase: DB-VRX Column diameter: 0.25

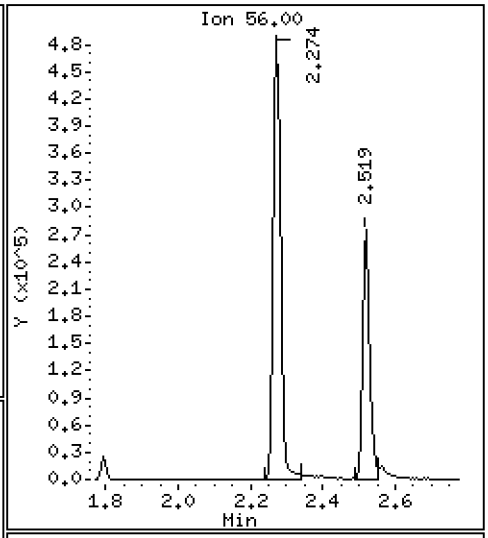
14 Acrolein Concentration: 478.664 ug/L

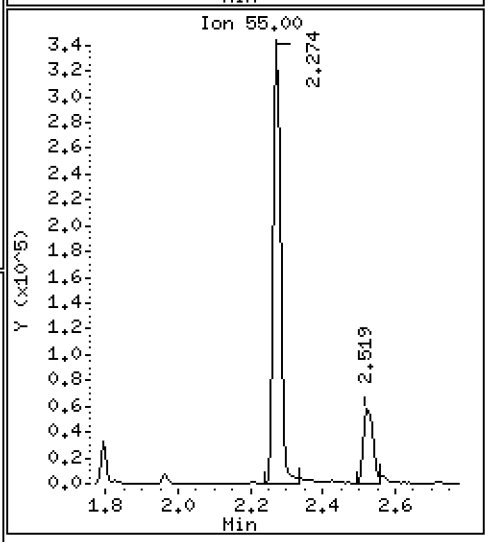












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 23

Date : 25-OCT-2016 21:59

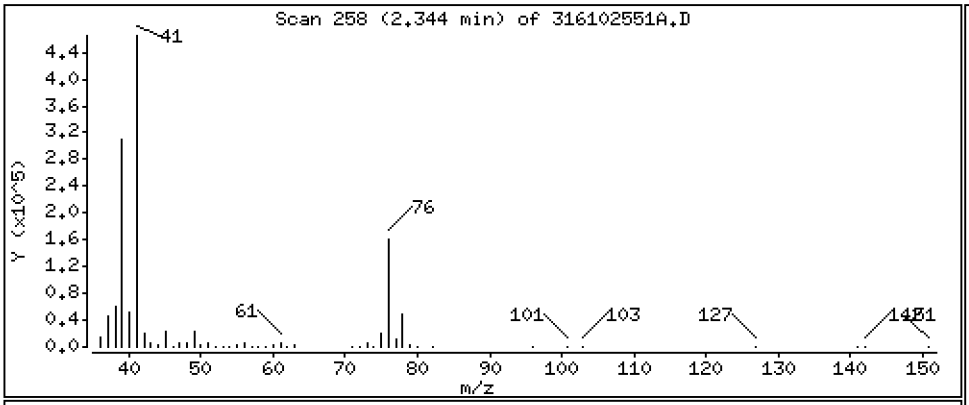
Client ID: Instrument: ms03.i

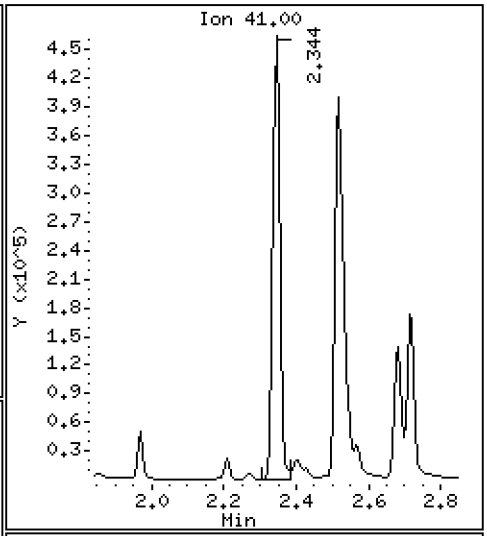
Sample Info: 1800;;1;2;4;;;

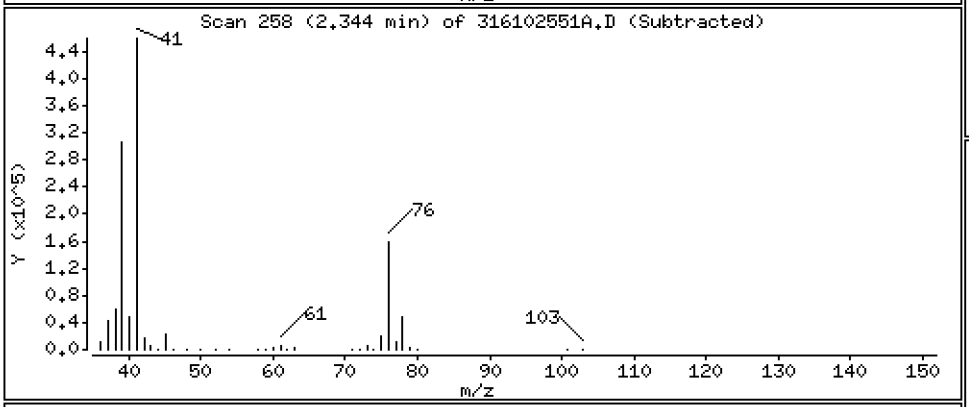
Purge Volume: 5.0 Operator: CJG

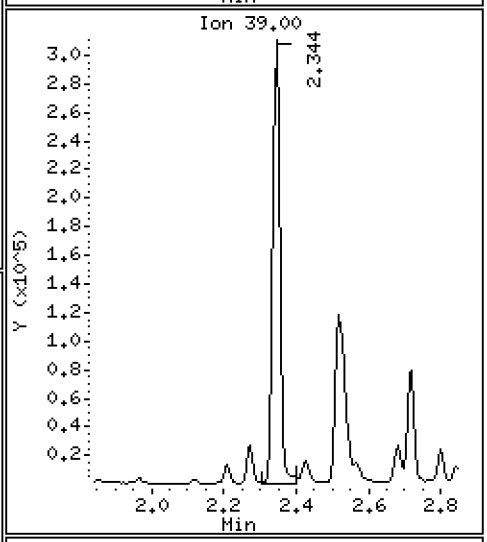
Column phase: DB-VRX Column diameter: 0.25

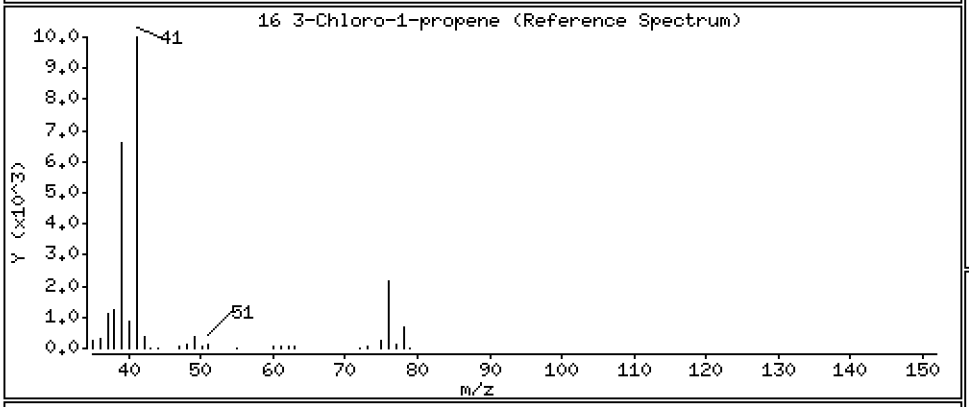
16 3-Chloro-1-propene Concentration: 48.8495 ug/L

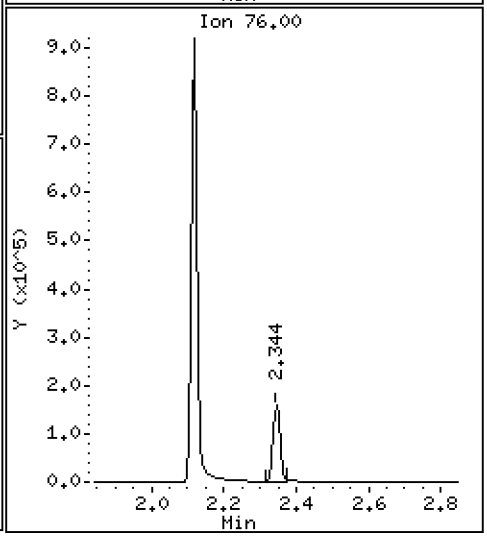


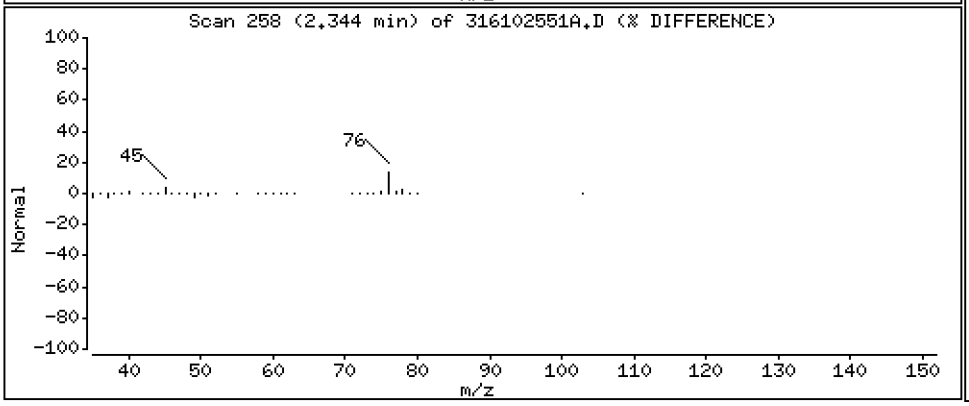












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 24

Date : 25-OCT-2016 21:59

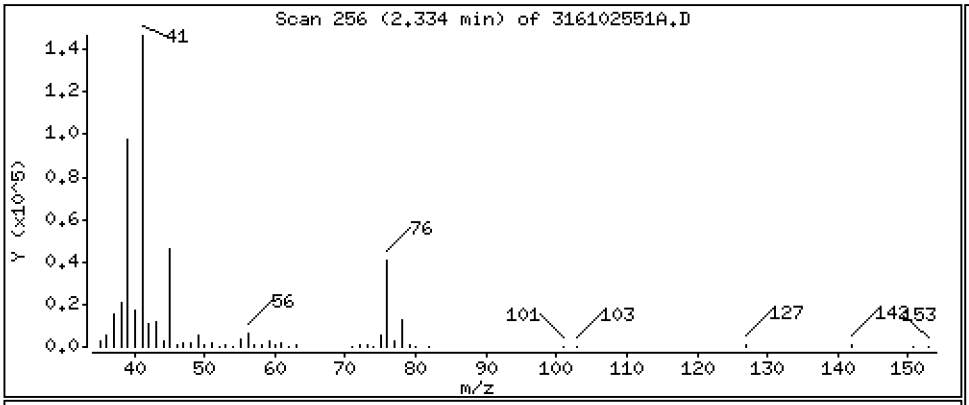
Client ID: Instrument: ms03.i

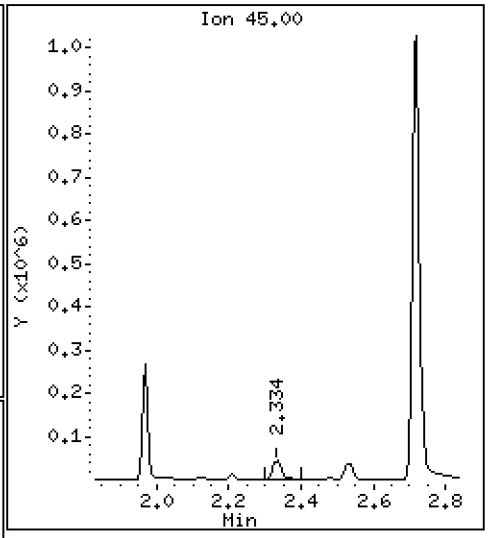
Sample Info: 1800;;1;2;4;;;

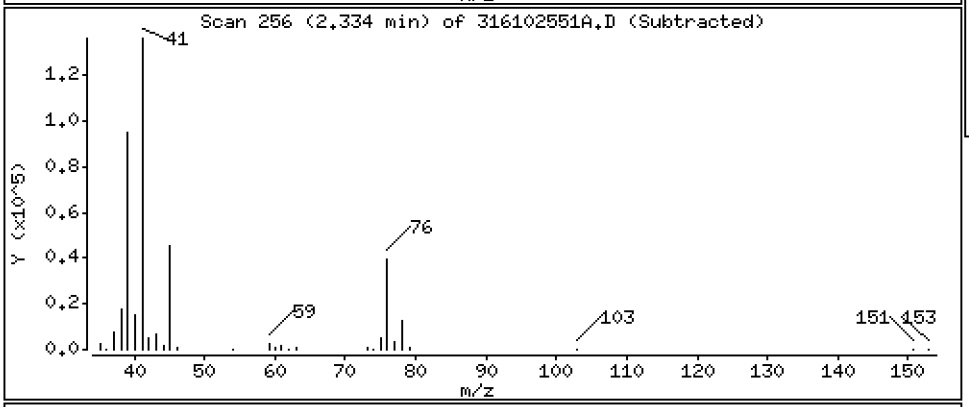
Purge Volume: 5.0 Operator: CJG

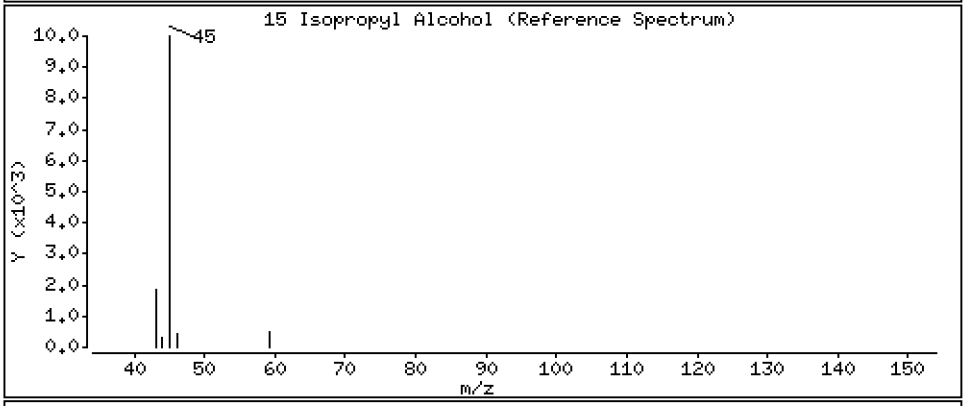
Column phase: DB-VRX Column diameter: 0.25

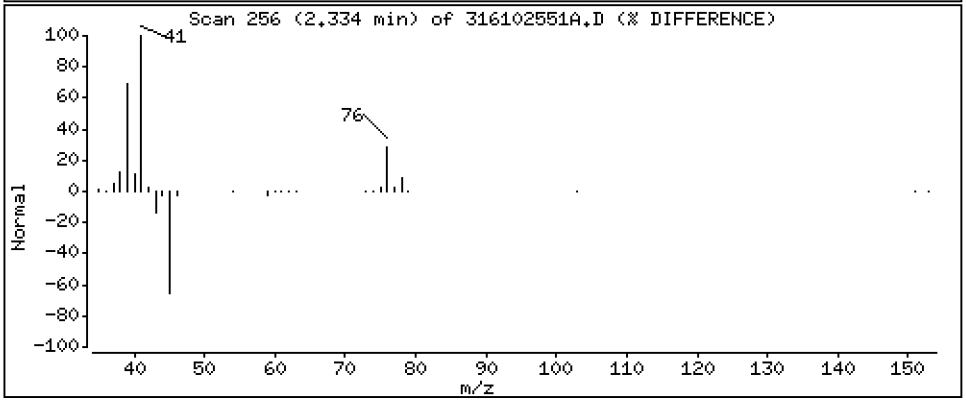
15 Isopropyl Alcohol Concentration: 241.435 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 25

Date : 25-OCT-2016 21:59

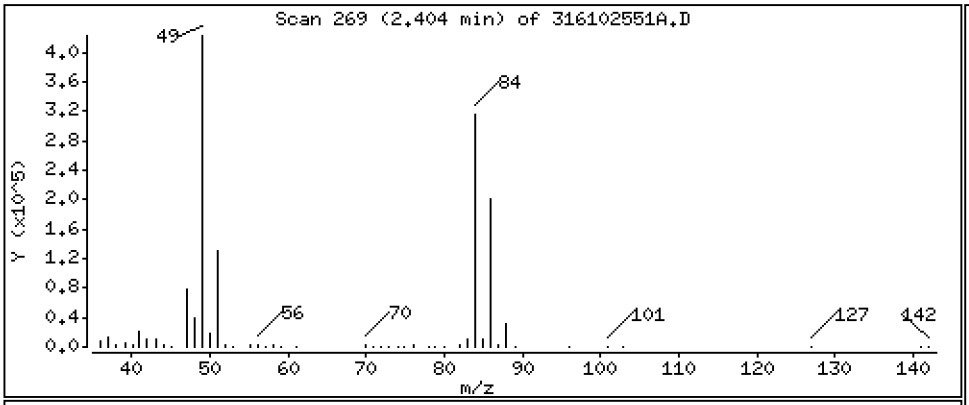
Client ID: Instrument: ms03.i

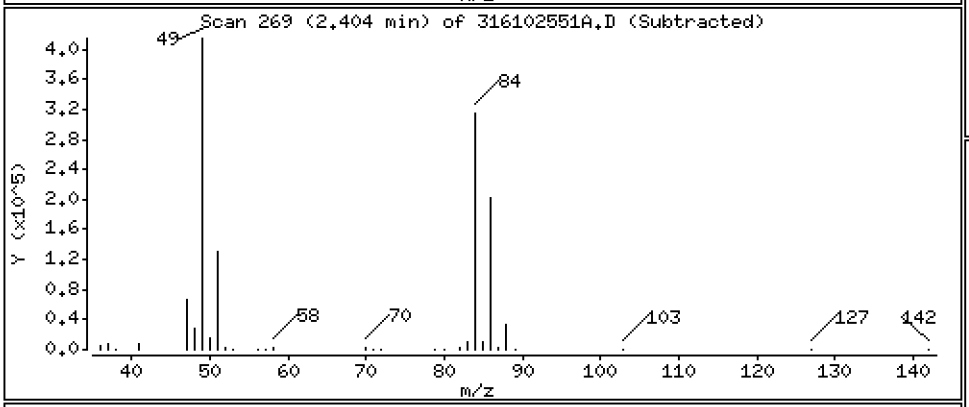
Sample Info: 1800;;1;2;4;;;

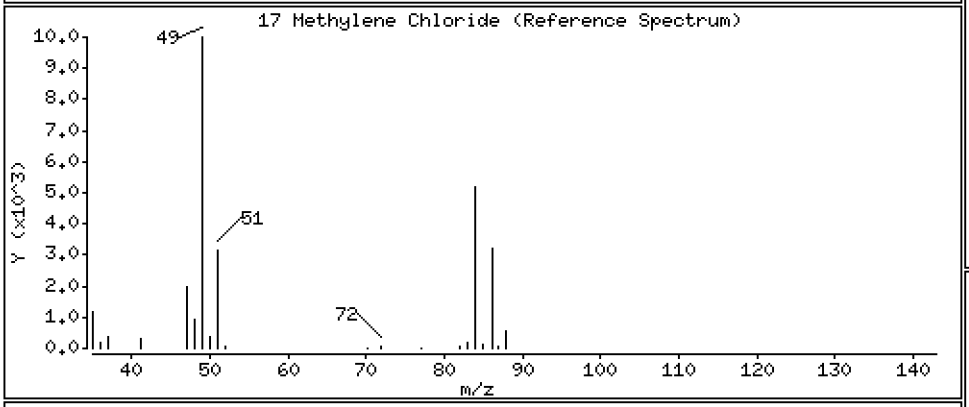
Purge Volume: 5.0 Operator: CJG

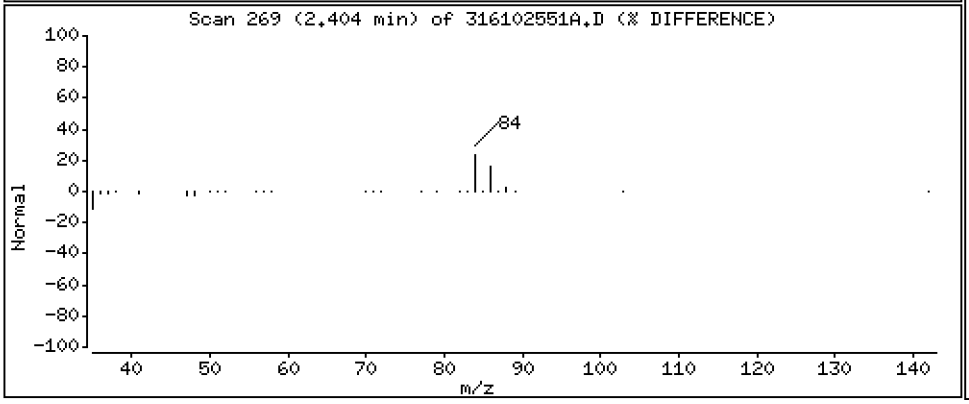
Column phase: DB-VRX Column diameter: 0.25

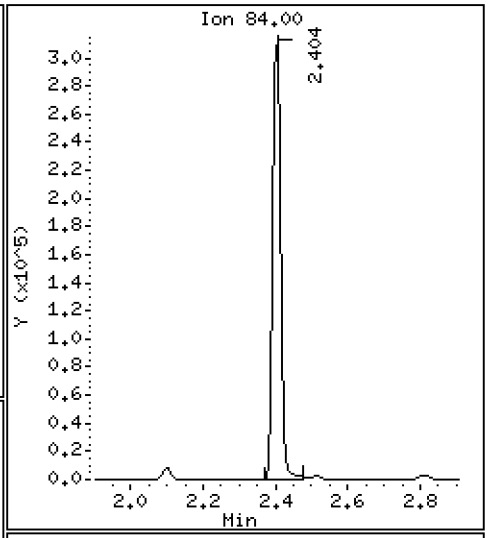
17 Methylene Chloride Concentration: 47.4865 ug/L

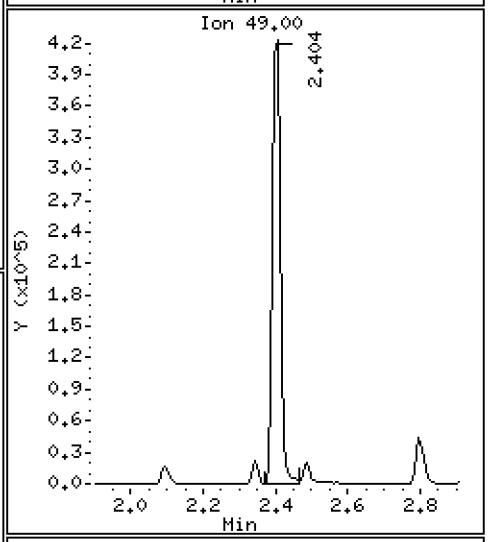


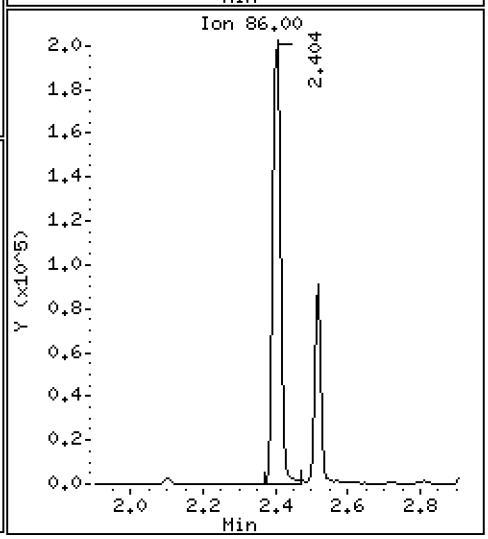












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 26

Date : 25-OCT-2016 21:59

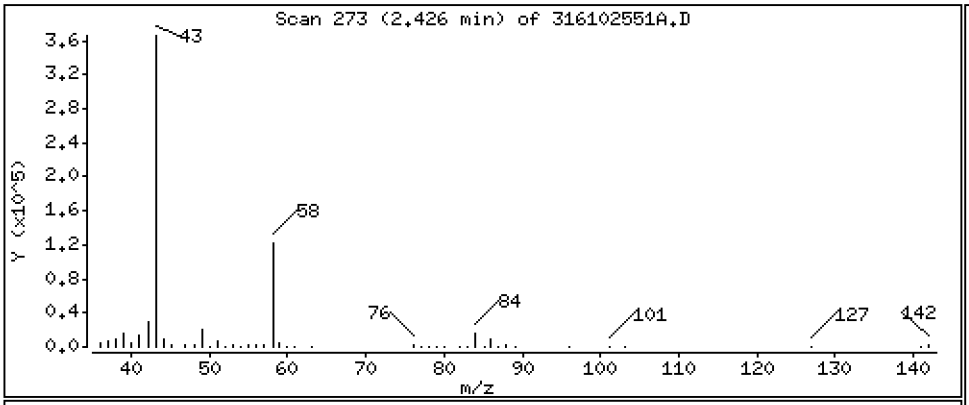
Client ID: Instrument: ms03.i

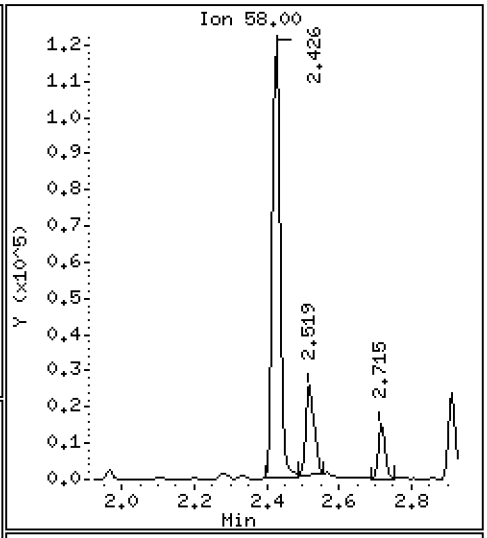
Sample Info: 1800;;1;2;4;;;

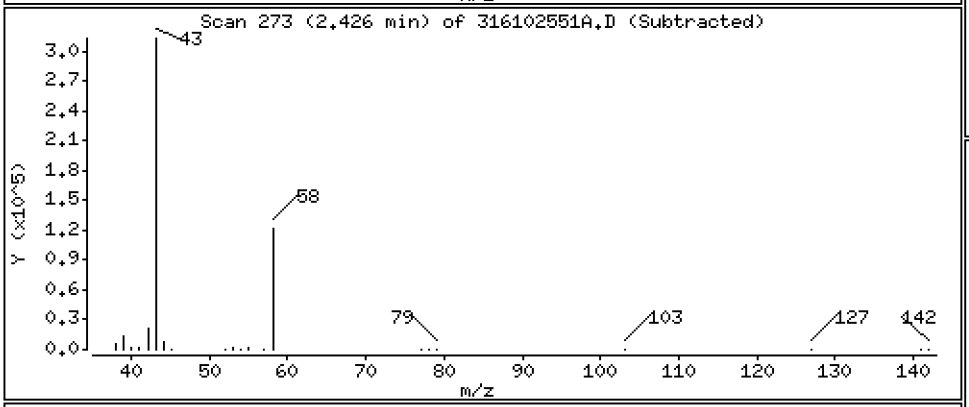
Purge Volume: 5.0 Operator: CJG

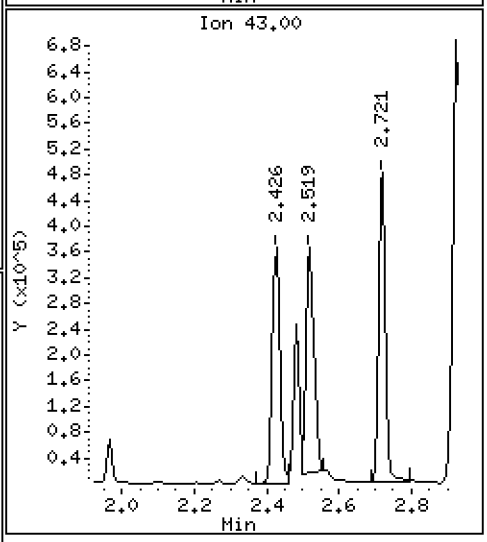
Column phase: DB-VRX Column diameter: 0.25

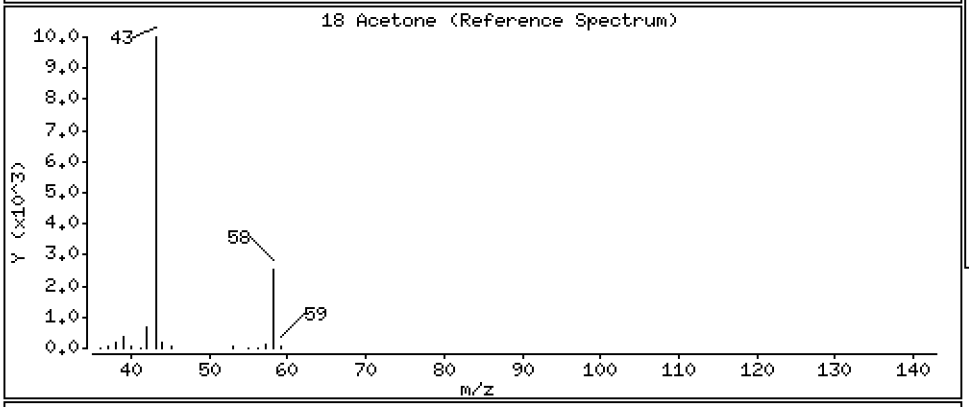
18 Acetone Concentration: 225.127 ug/L

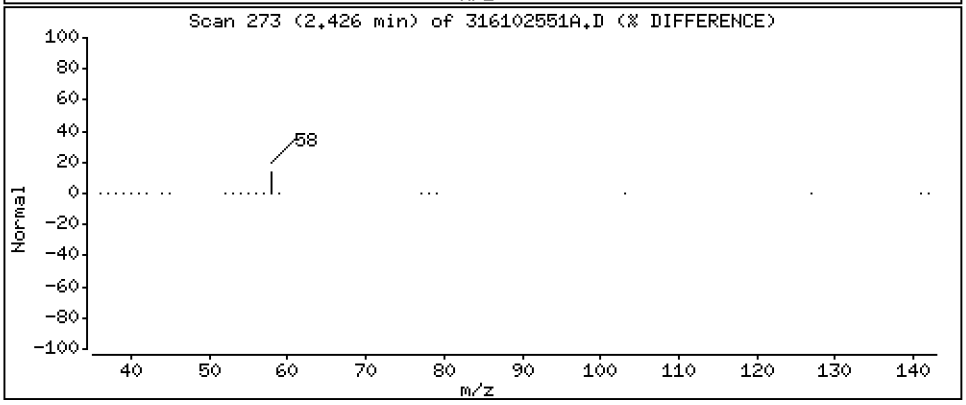












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 27

Date : 25-OCT-2016 21:59

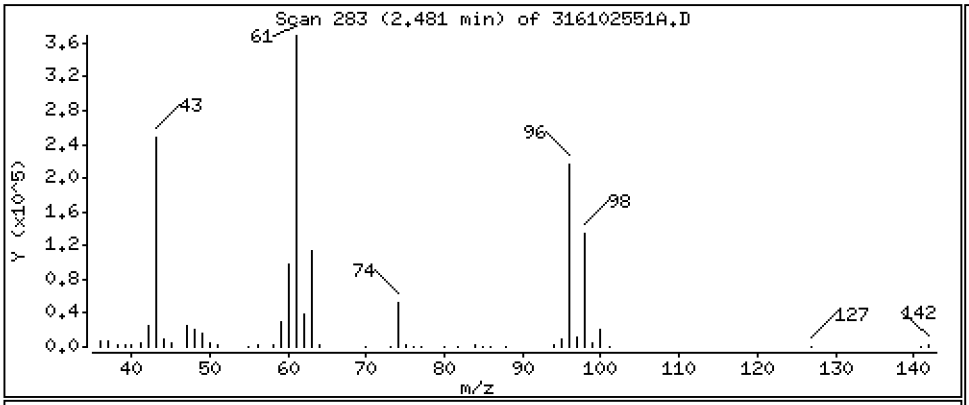
Client ID: Instrument: ms03.i

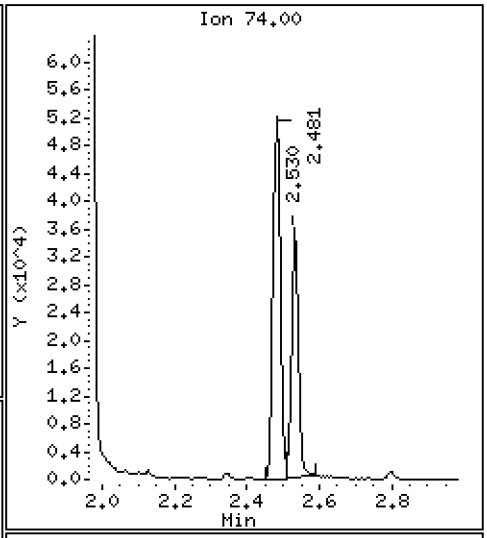
Sample Info: 1800;;1;2;4;;;

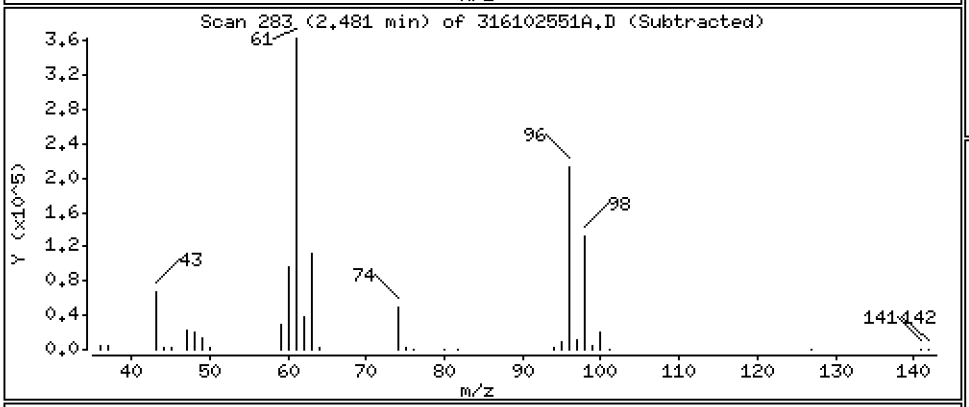
Purge Volume: 5.0 Operator: CJG

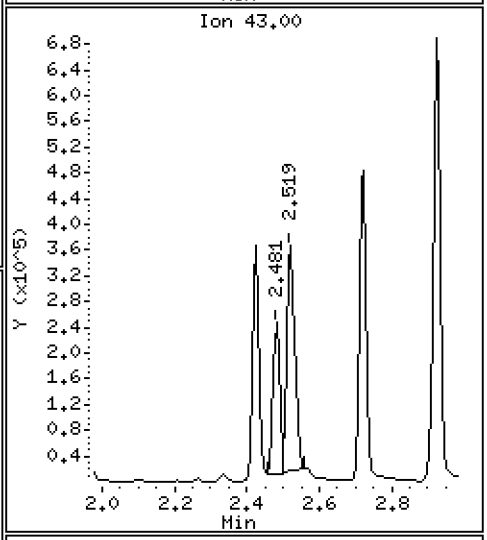
Column phase: DB-VRX Column diameter: 0.25

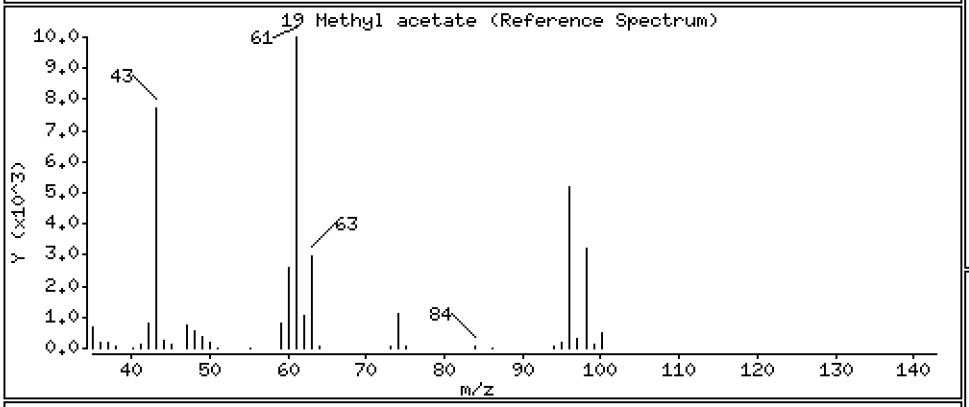
19 Methyl acetate Concentration: 46.5768 ug/L

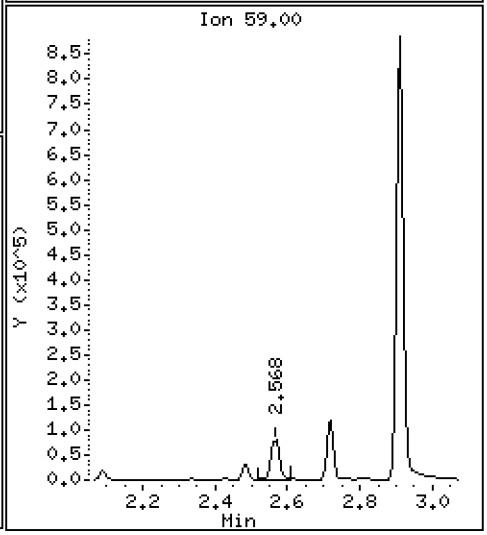


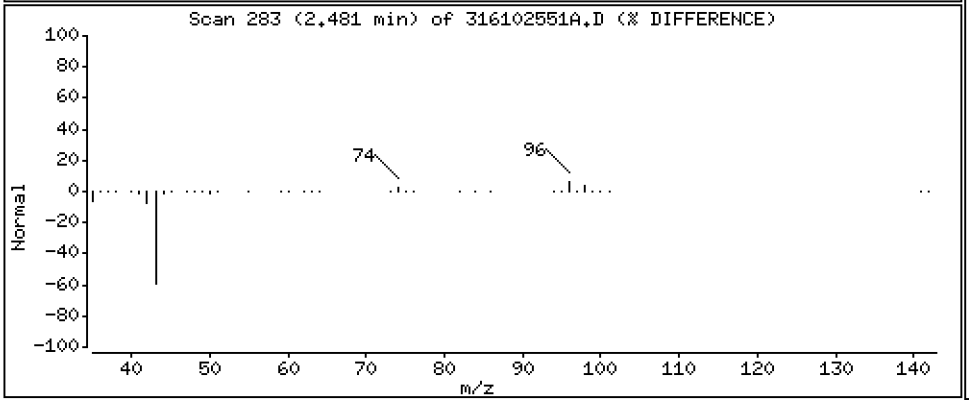












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 28

Date : 25-OCT-2016 21:59

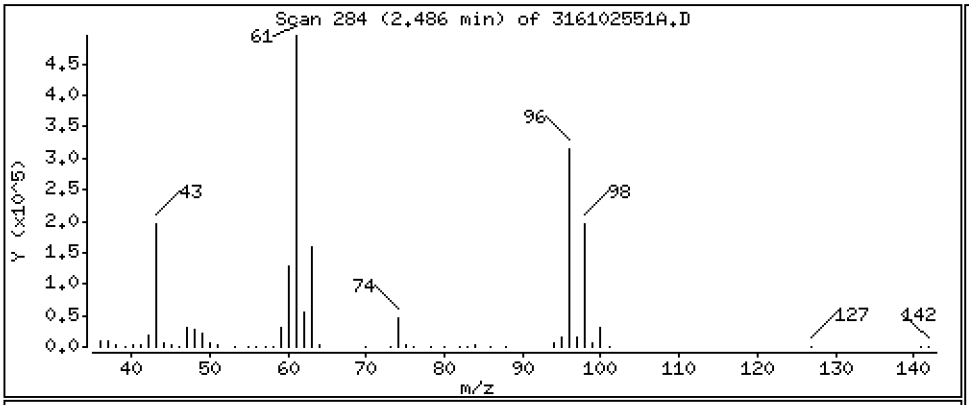
Client ID: Instrument: ms03.i

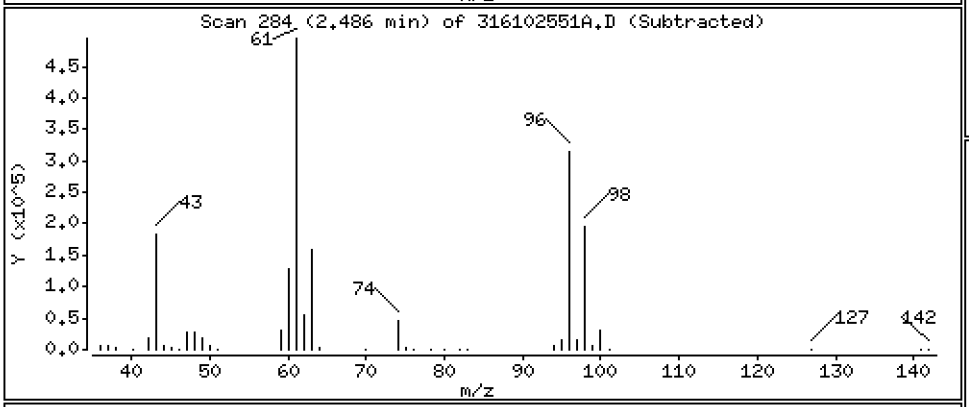
Sample Info: 1800;;1;2;4;;;

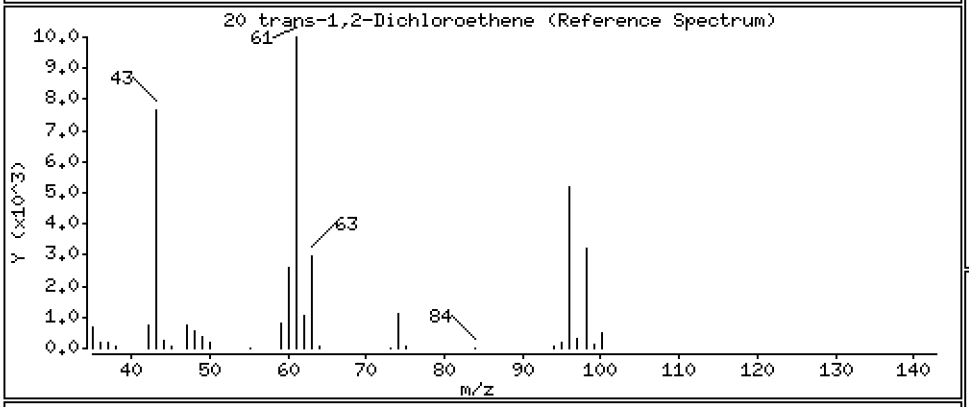
Purge Volume: 5.0 Operator: CJG

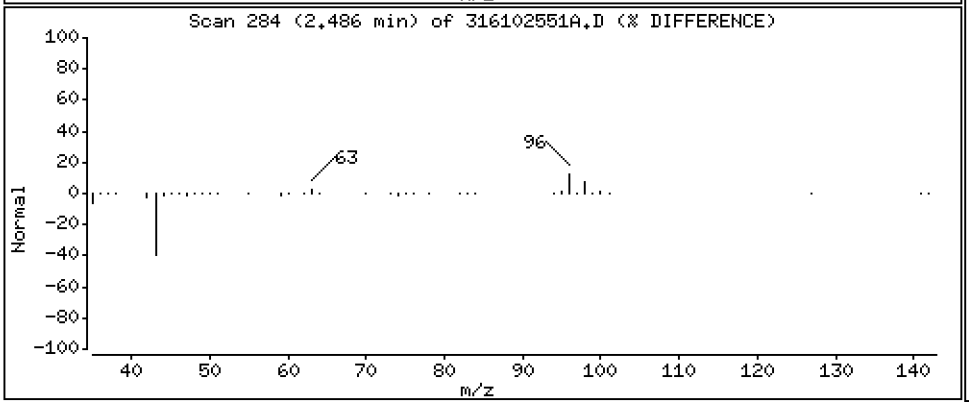
Column phase: DB-VRX Column diameter: 0.25

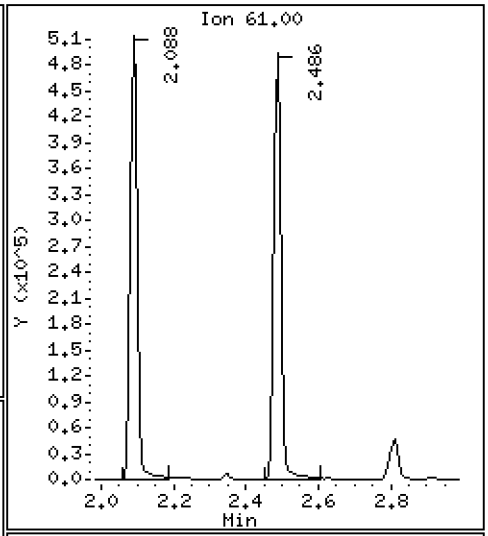
20 trans-1,2-Dichloroethene Concentration: 45.9085 ug/L

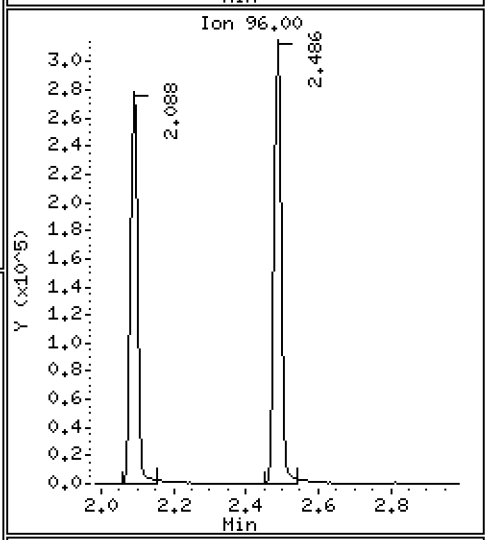


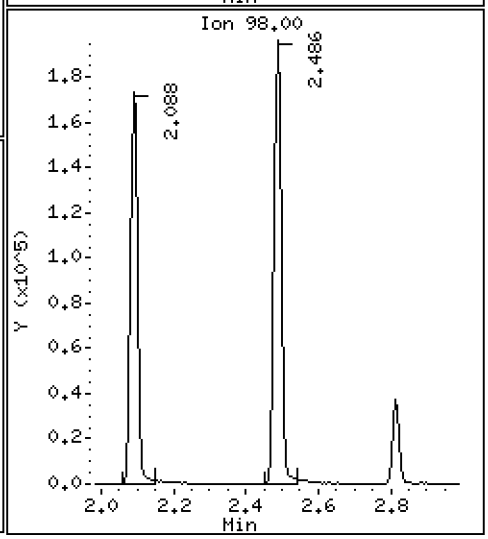












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 29

Date : 25-OCT-2016 21:59

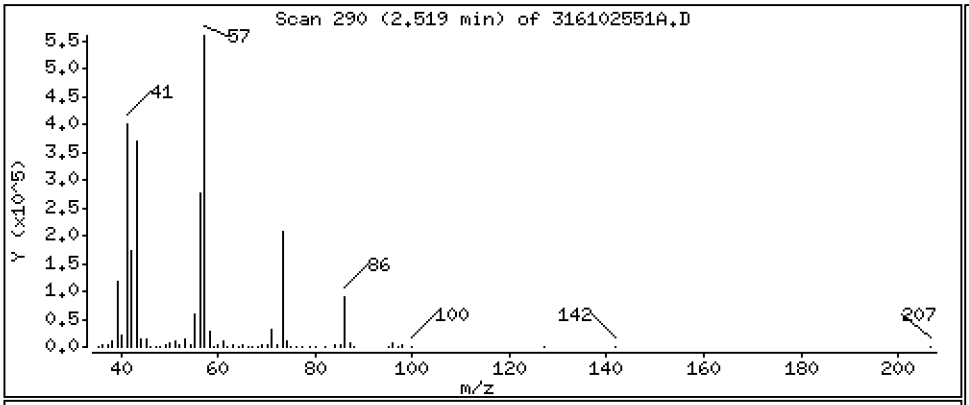
Client ID: Instrument: ms03.i

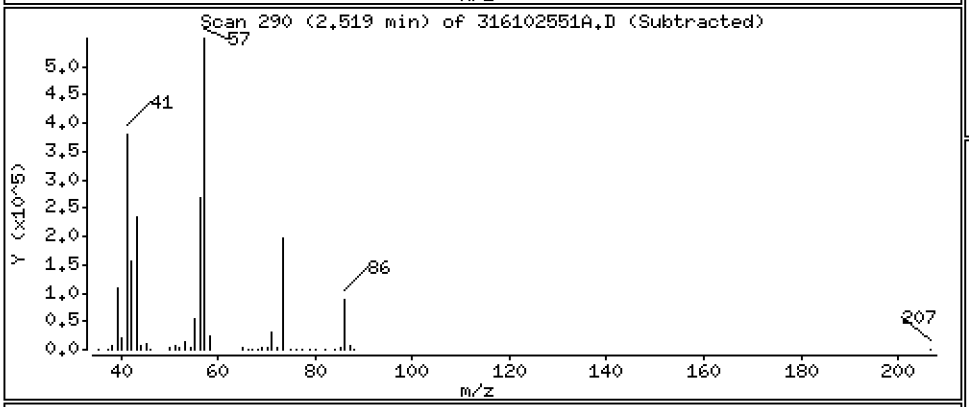
Sample Info: 1800;;1;2;4;;;

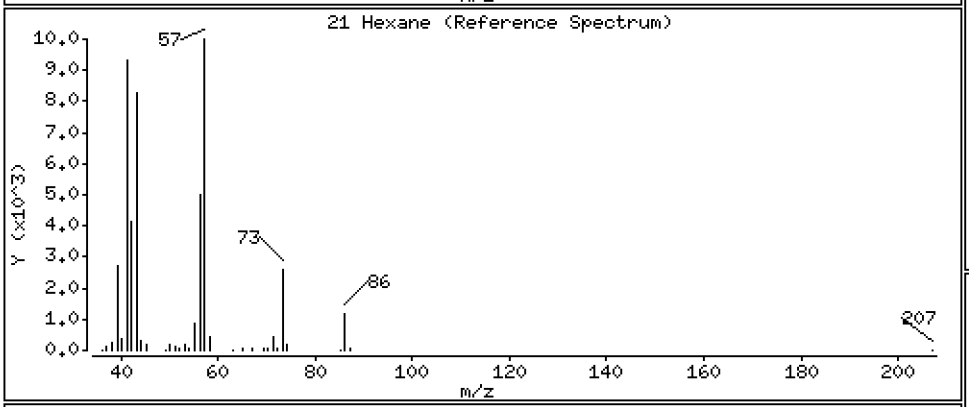
Purge Volume: 5.0 Operator: CJG

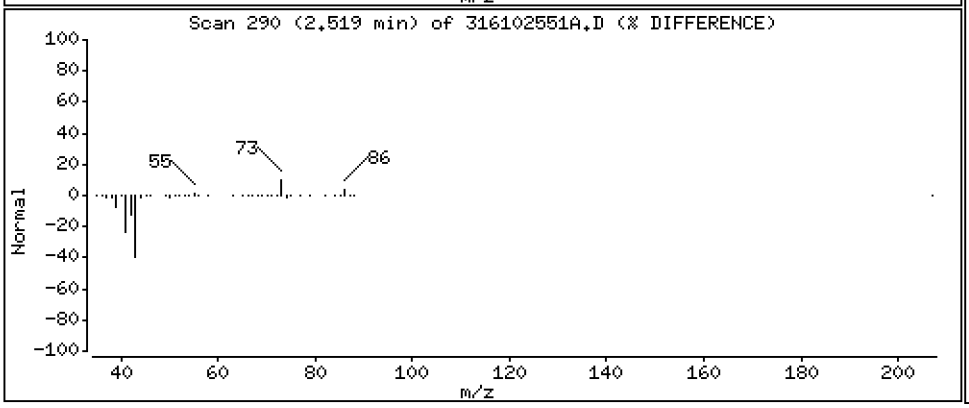
Column phase: DB-VRX Column diameter: 0.25

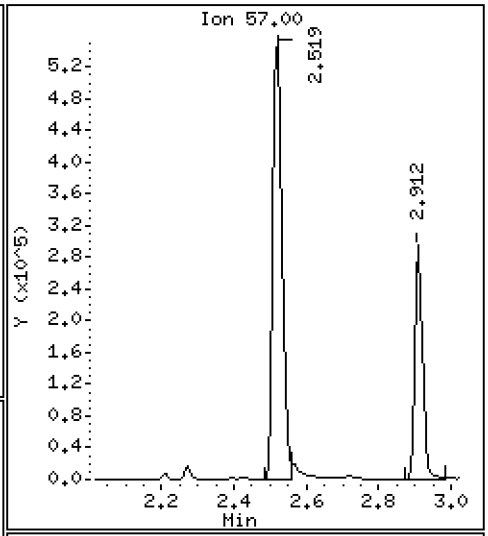
21 Hexane Concentration: 47.5178 ug/L

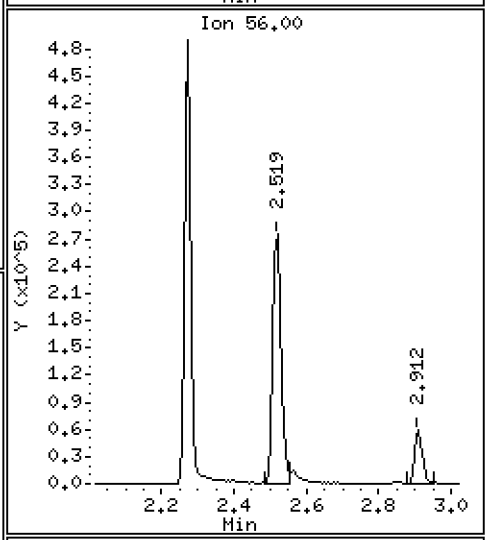


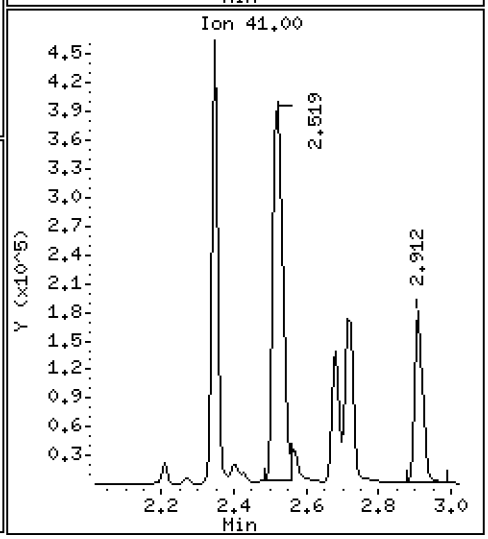












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 30

Date : 25-OCT-2016 21:59

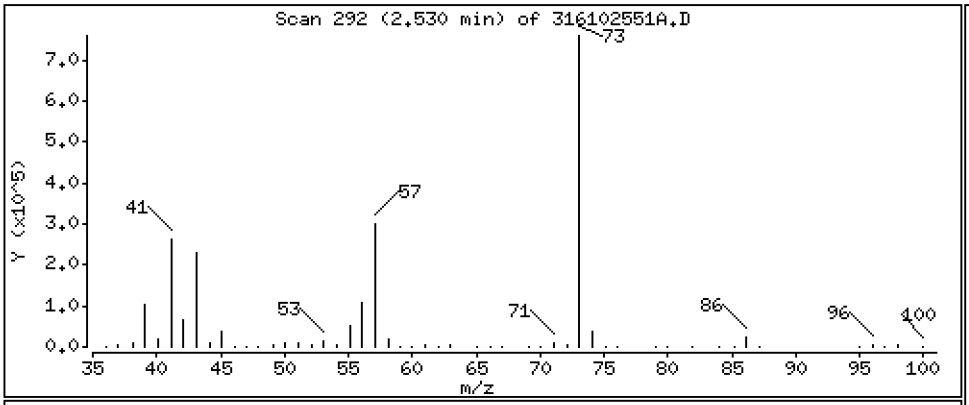
Client ID: Instrument: ms03.i

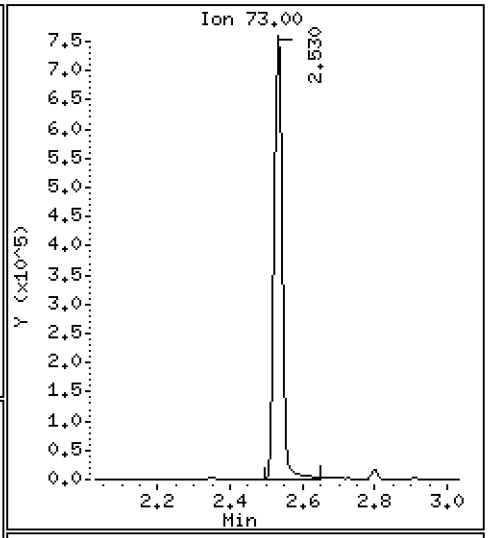
Sample Info: 1800;;1;2;4;;;

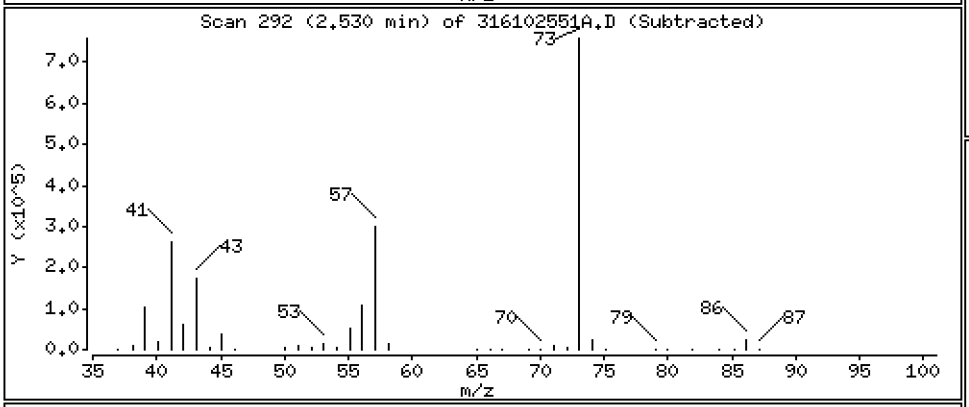
Purge Volume: 5.0 Operator: CJG

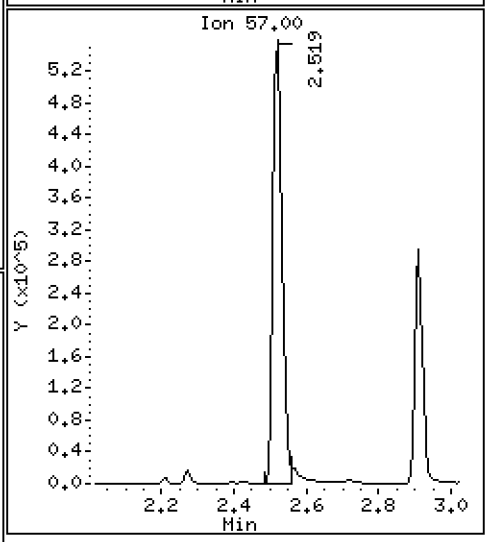
Column phase: DB-VRX Column diameter: 0.25

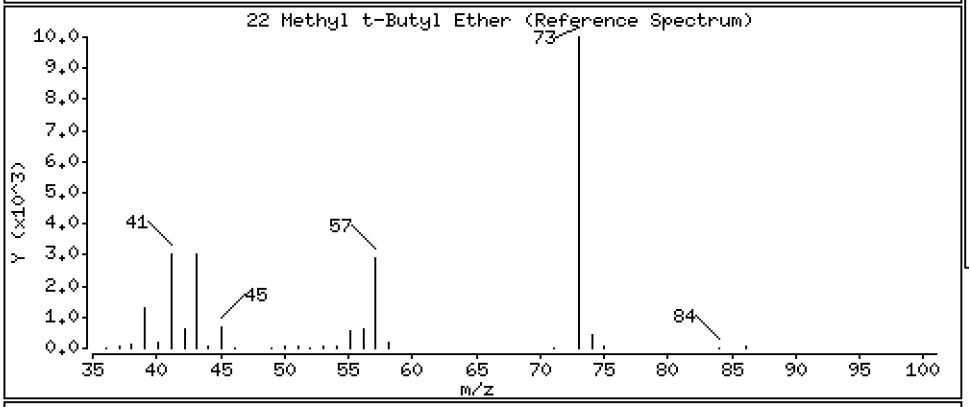
22 Methyl t-Butyl Ether Concentration: 46.8250 ug/L

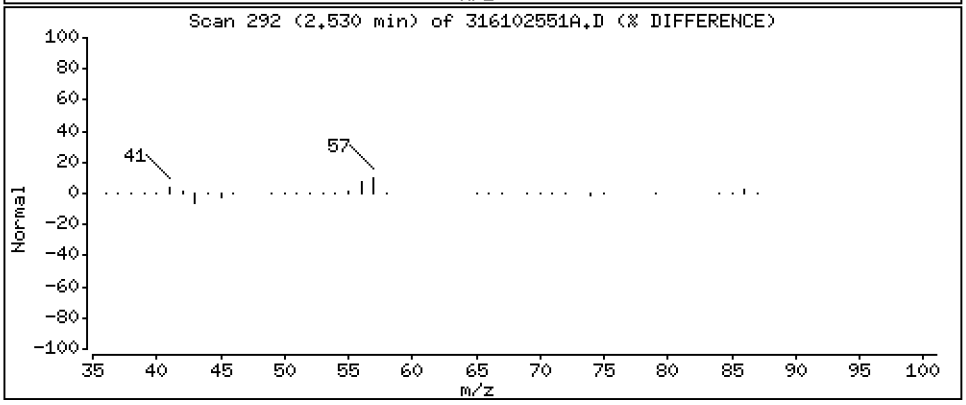












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 31

Date : 25-OCT-2016 21:59

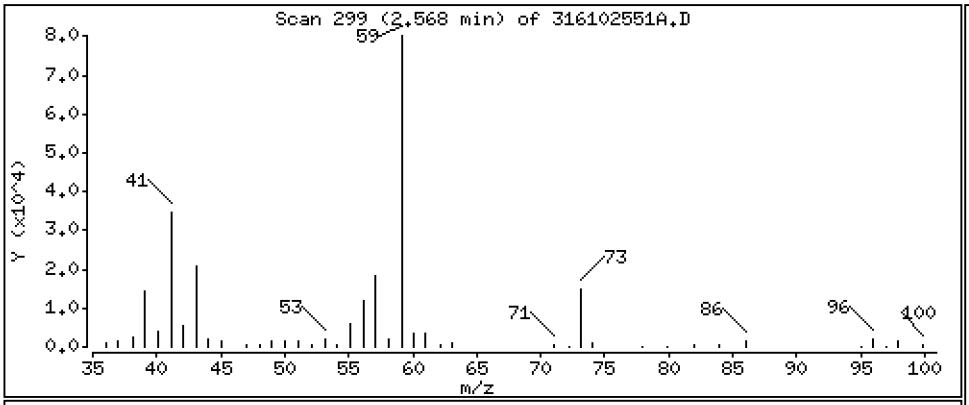
Client ID: Instrument: ms03.i

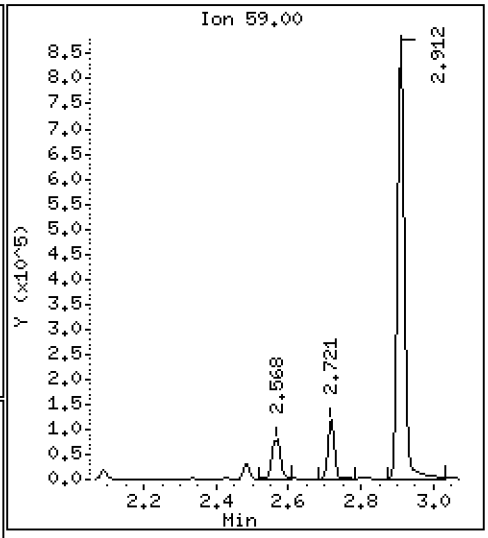
Sample Info: 1800;;1;2;4;;;

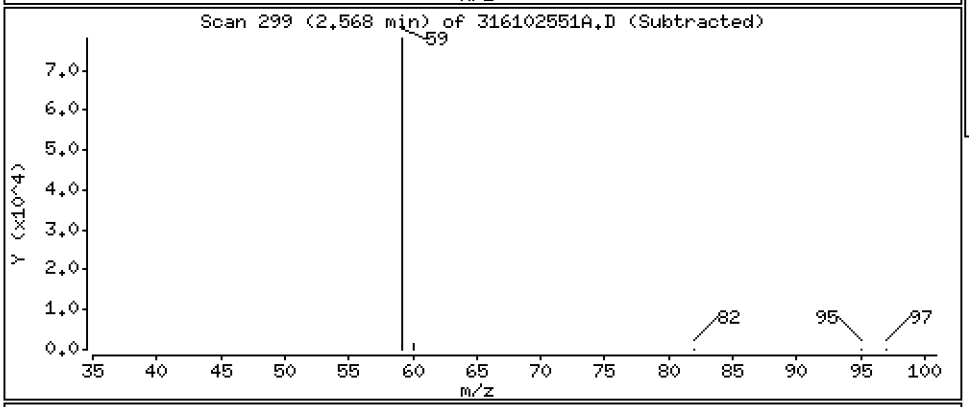
Purge Volume: 5.0 Operator: CJG

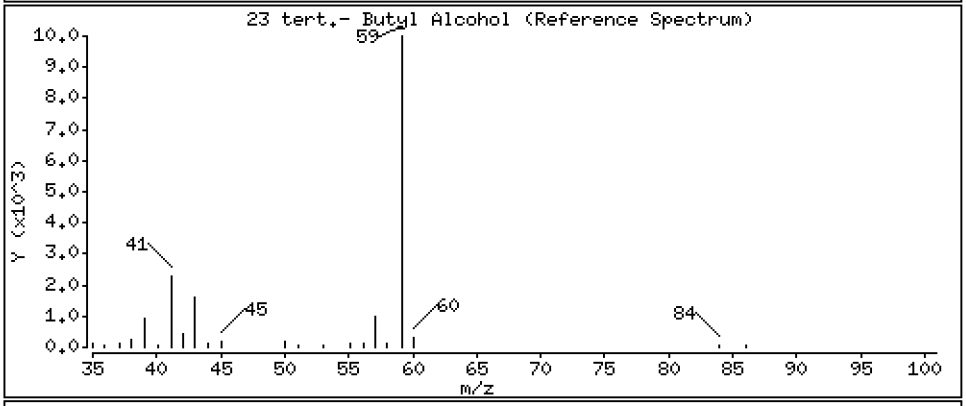
Column phase: DB-VRX Column diameter: 0.25

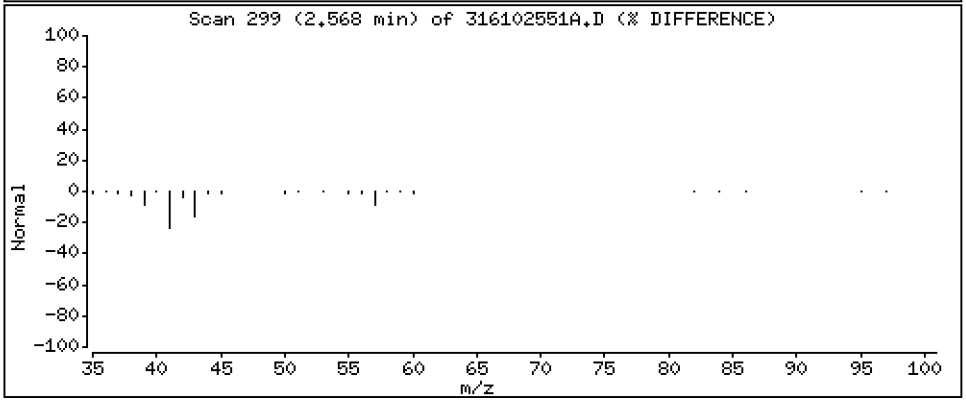
23 tert.- Butyl Alcohol Concentration: 233.356 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 32

Date : 25-OCT-2016 21:59

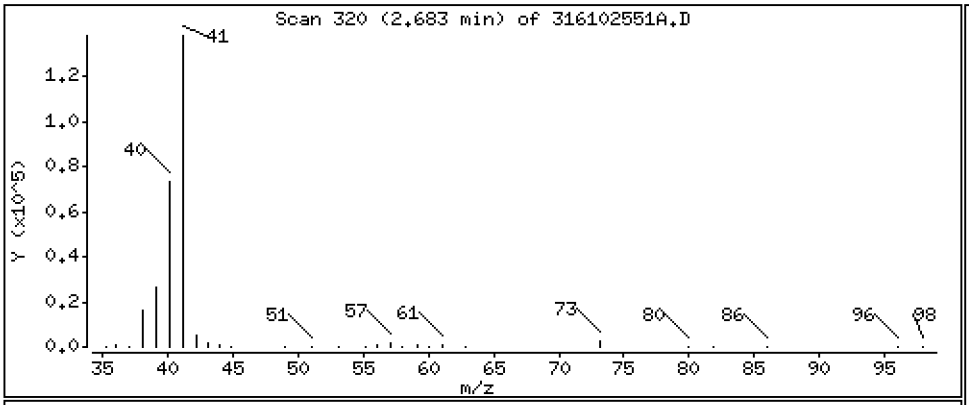
Client ID: Instrument: ms03.i

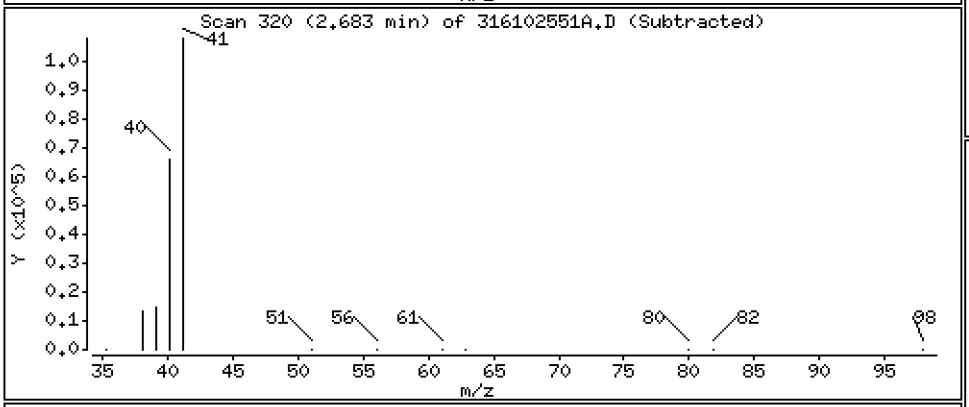
Sample Info: 1800;;1;2;4;;;

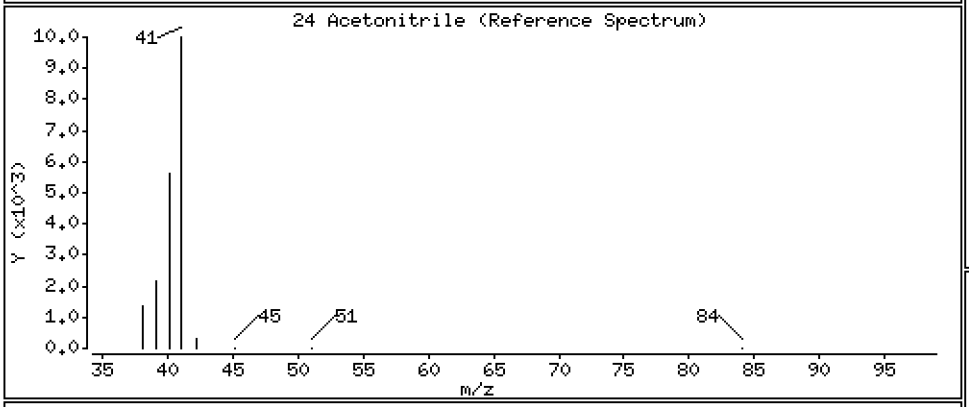
Purge Volume: 5.0 Operator: CJG

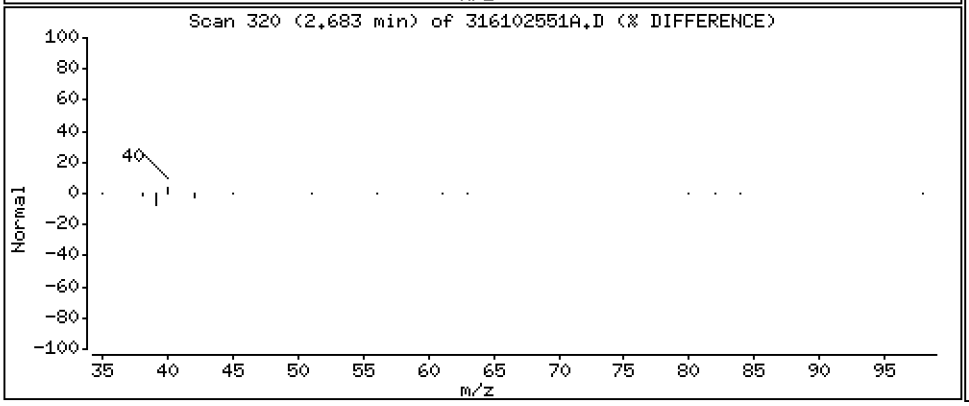
Column phase: DB-VRX Column diameter: 0.25

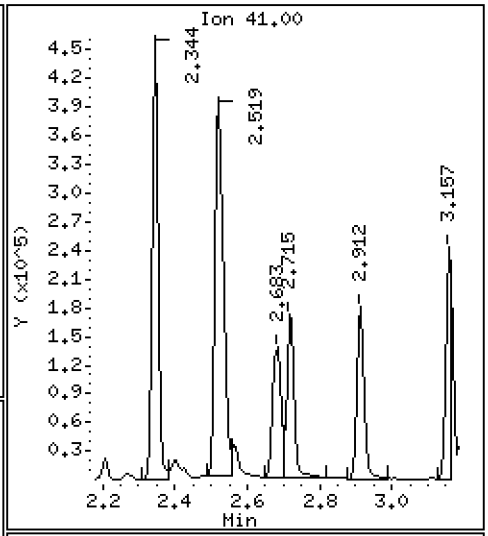
24 Acetonitrile Concentration: 266.488 ug/L

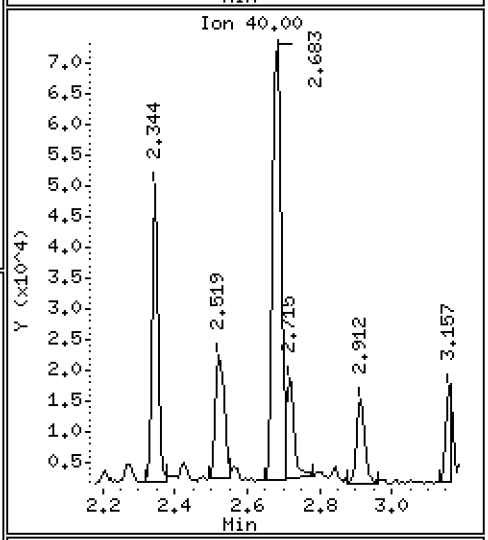


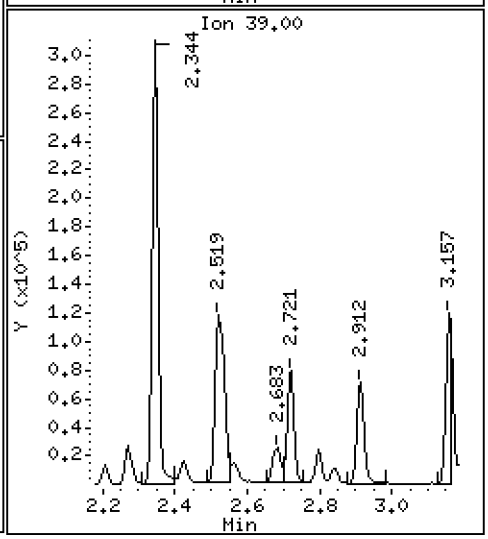












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 33

Date : 25-OCT-2016 21:59

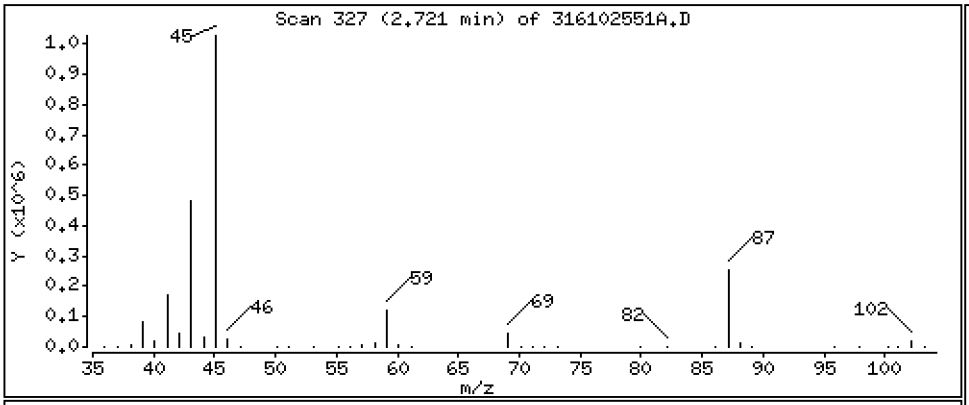
Client ID: Instrument: ms03.i

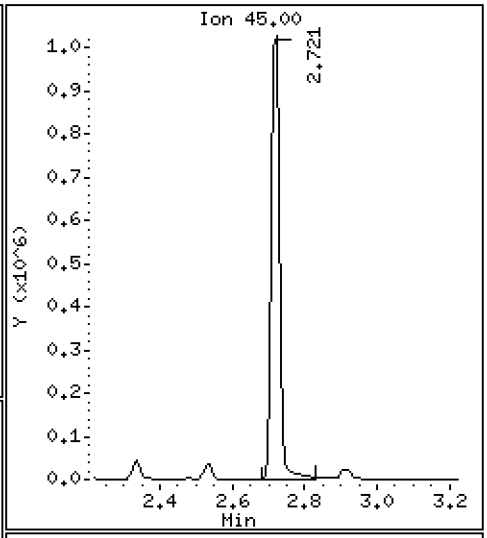
Sample Info: 1800;;1;2;4;;;

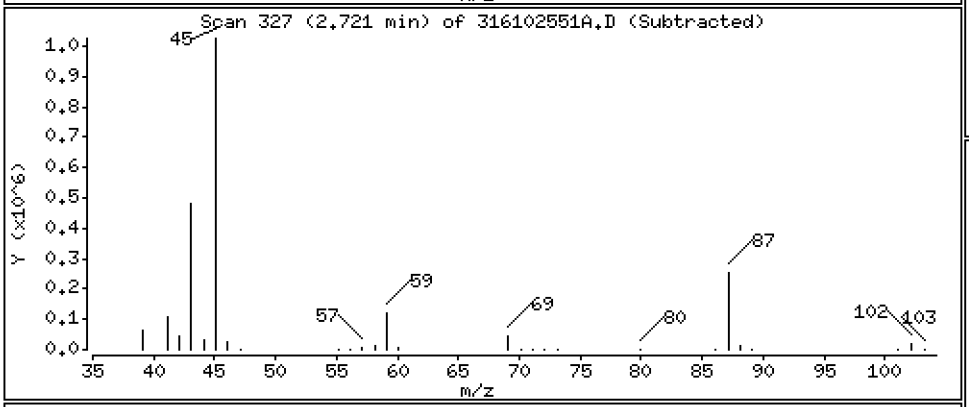
Purge Volume: 5.0 Operator: CJG

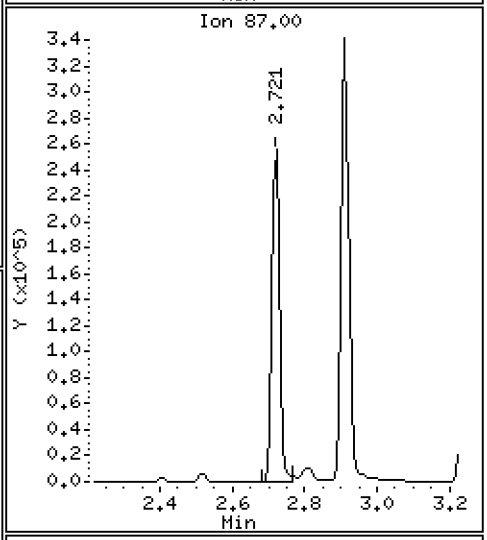
Column phase: DB-VRX Column diameter: 0.25

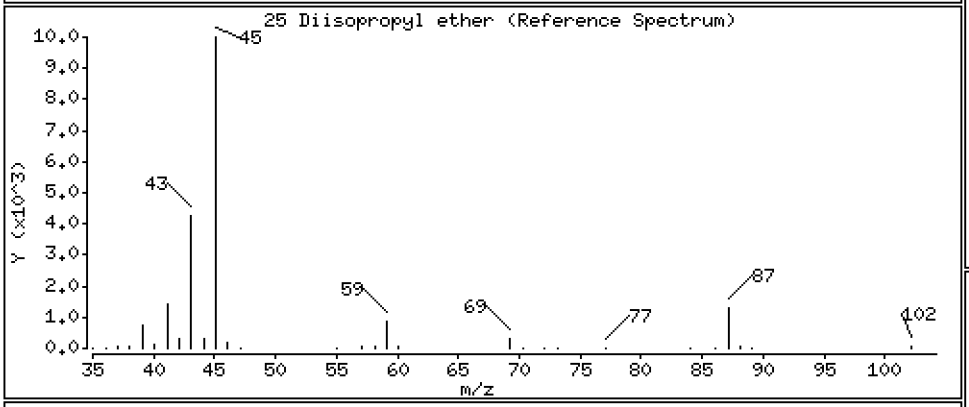
25 Diisopropyl ether Concentration: 48.2685 ug/L

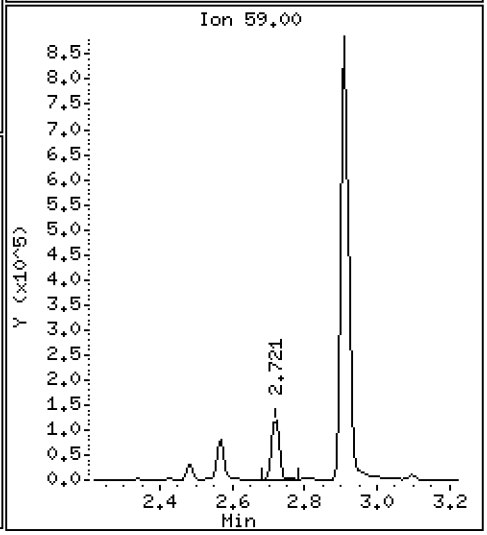


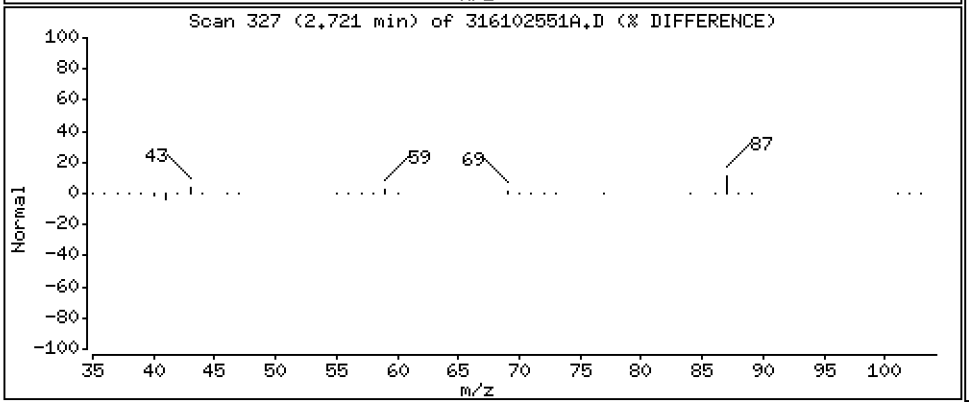












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 34

Date : 25-OCT-2016 21:59

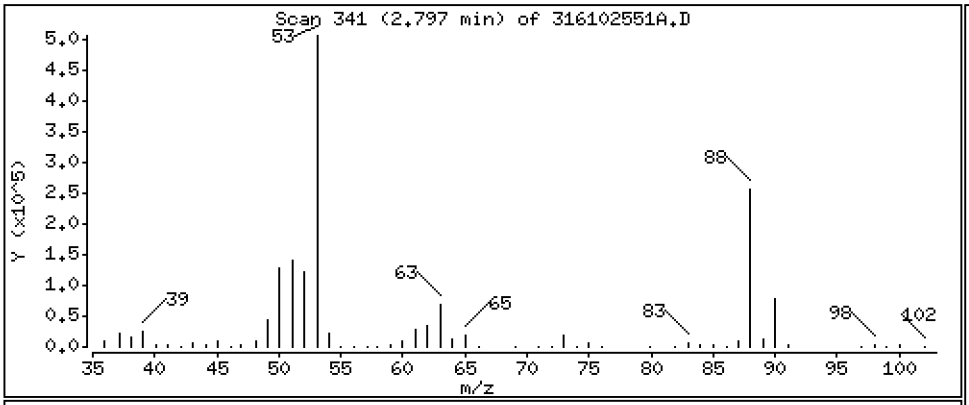
Client ID: Instrument: ms03.i

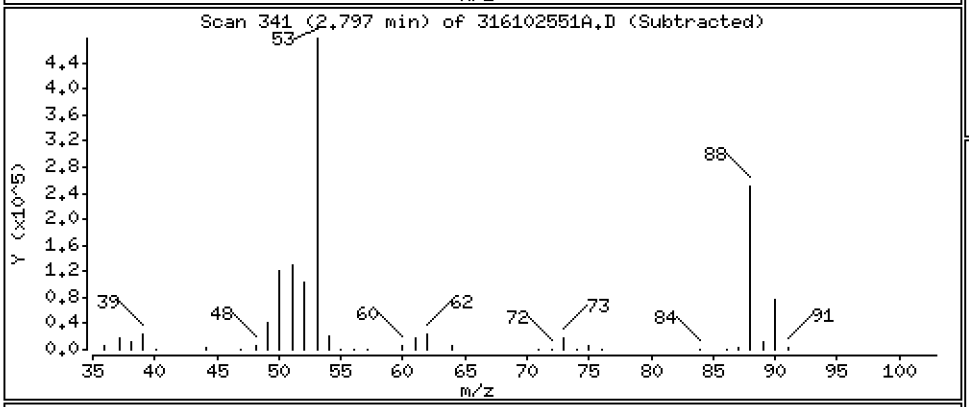
Sample Info: 1800;;1;2;4;;;

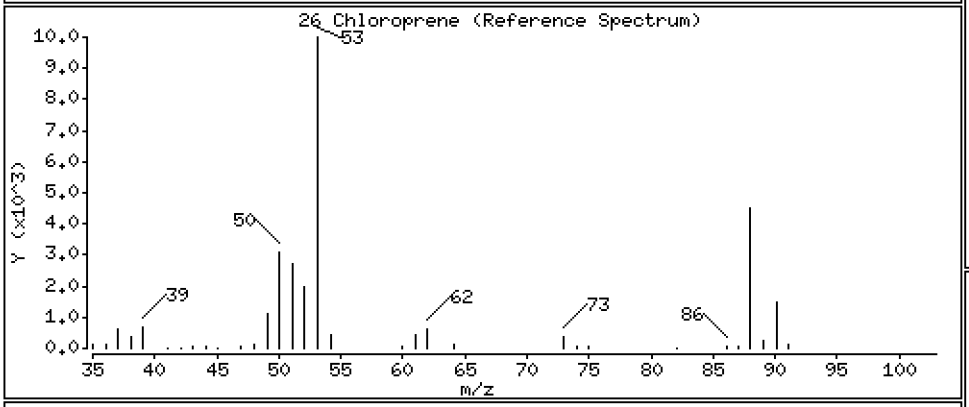
Purge Volume: 5.0 Operator: CJG

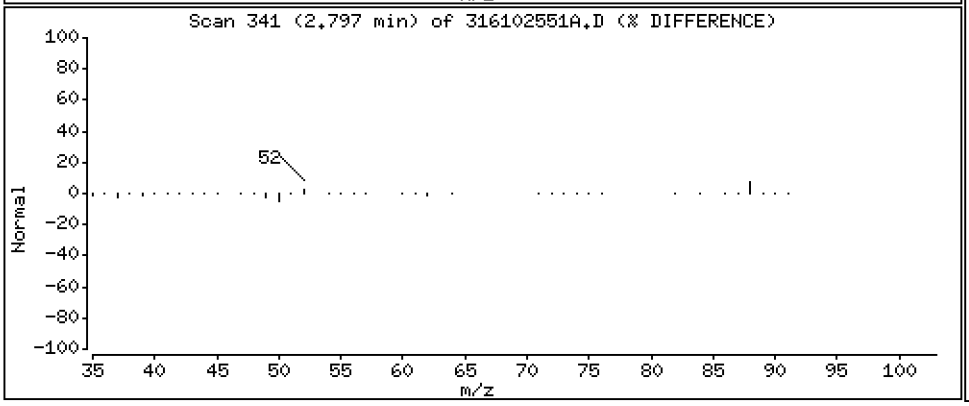
Column phase: DB-VRX Column diameter: 0.25

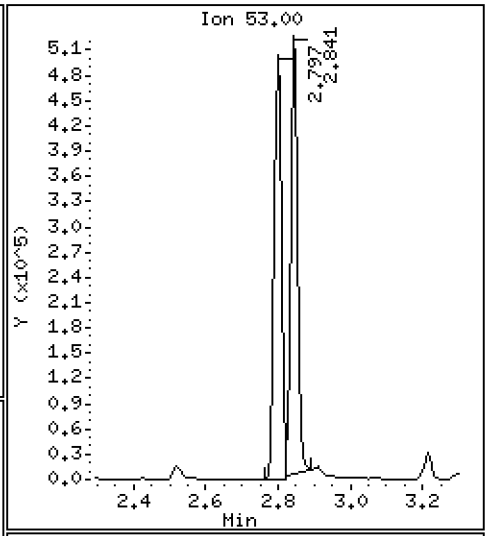
26 Chloroprene Concentration: 48.4600 ug/L

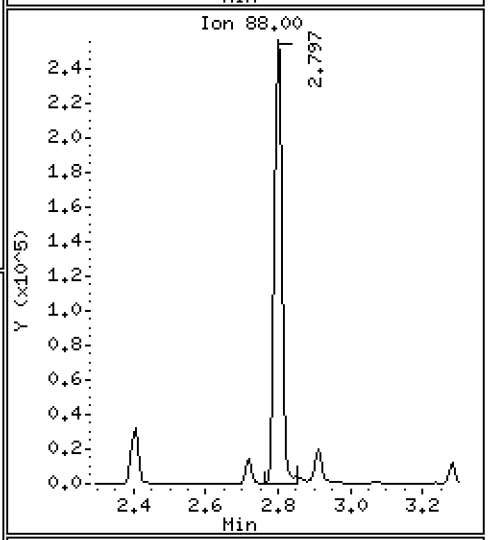


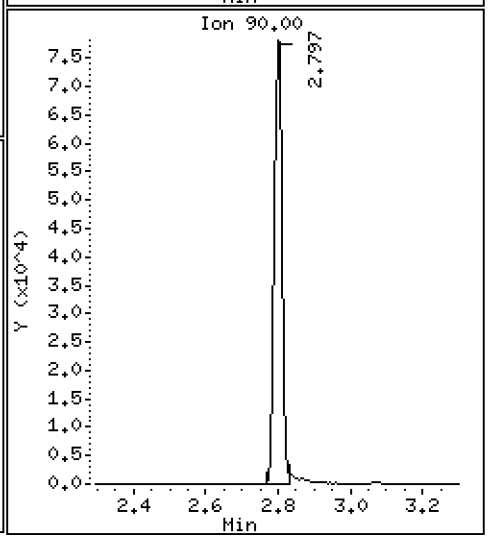












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 35

Date : 25-OCT-2016 21:59

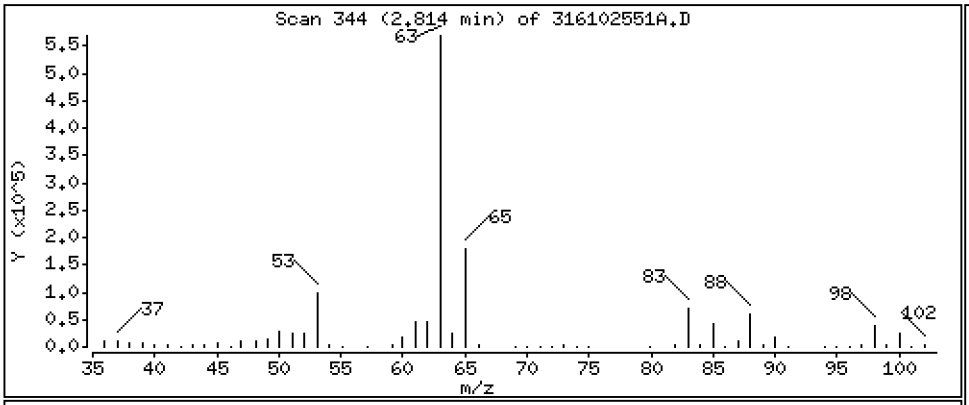
Client ID: Instrument: ms03.i

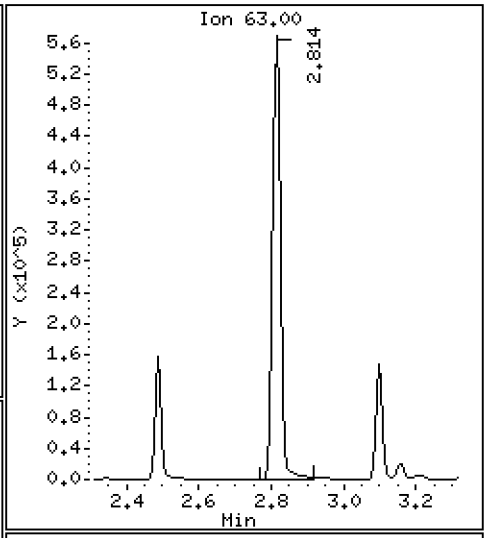
Sample Info: 1800;;1;2;4;;;

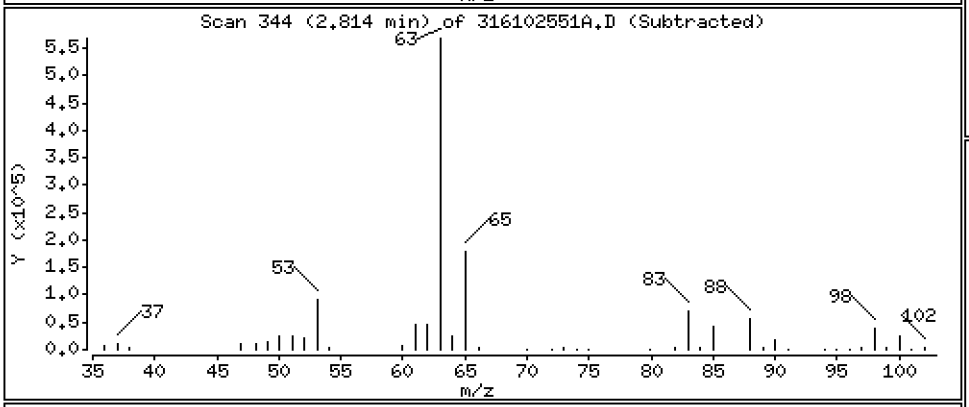
Purge Volume: 5.0 Operator: CJG

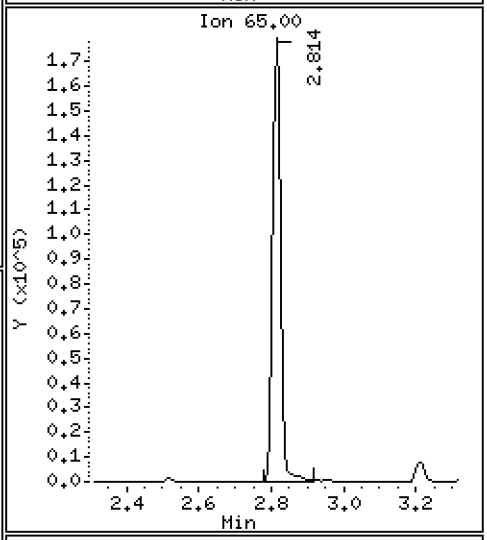
Column phase: DB-VRX Column diameter: 0.25

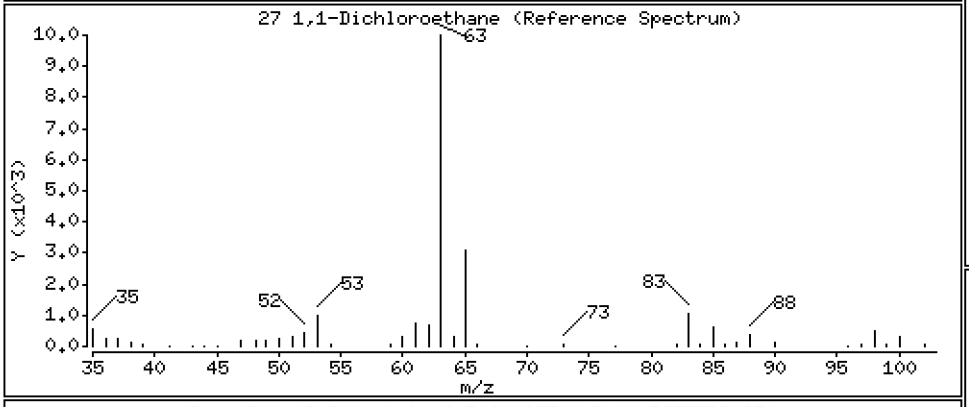
27 1,1-Dichloroethane Concentration: 45.5577 ug/L

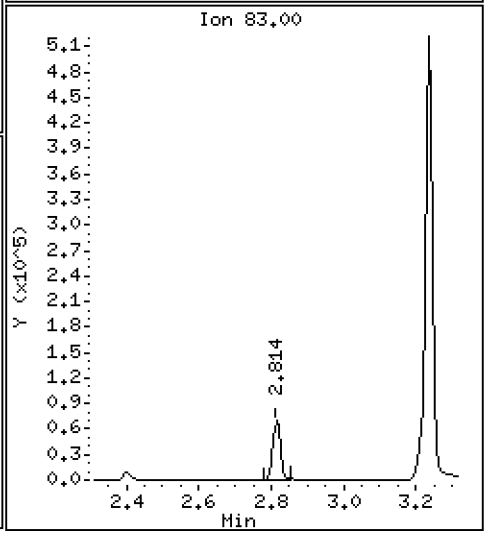


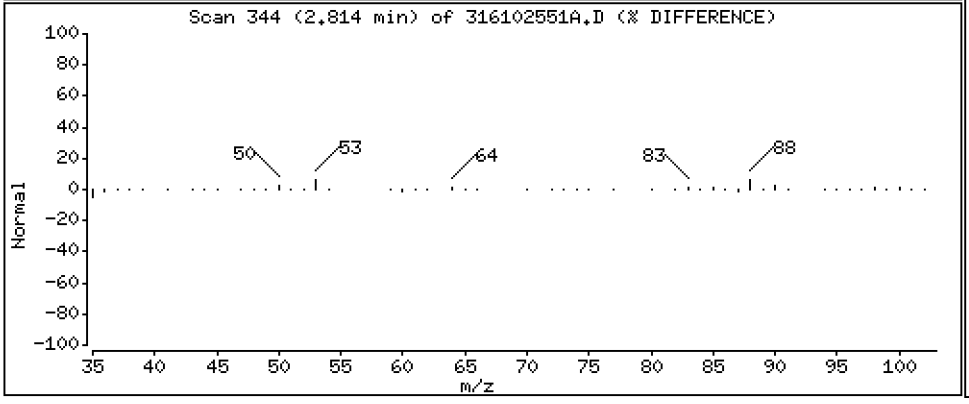












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 36

Date : 25-OCT-2016 21:59

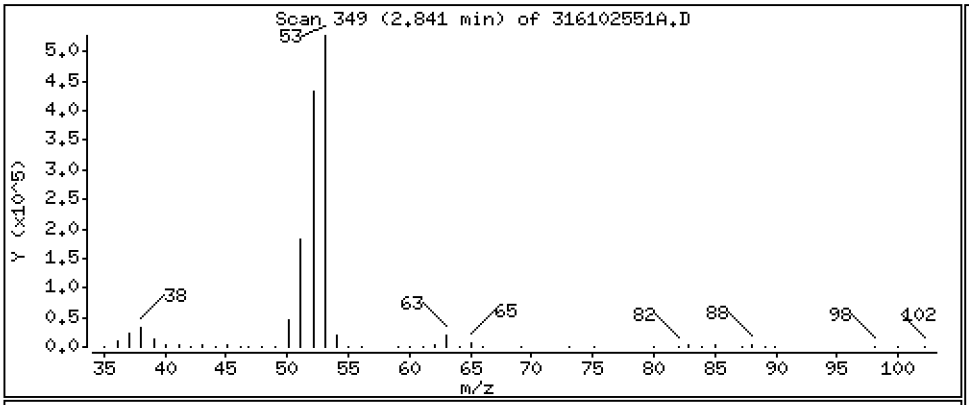
Client ID: Instrument: ms03.i

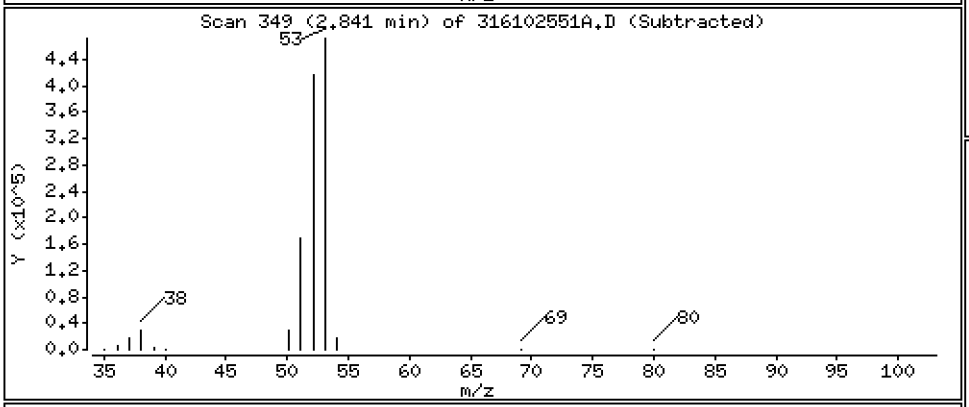
Sample Info: 1800;;1;2;4;;;

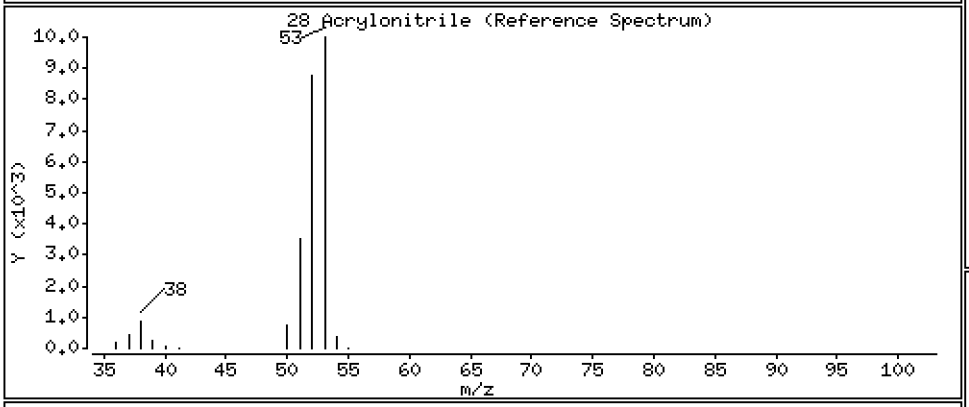
Purge Volume: 5.0 Operator: CJG

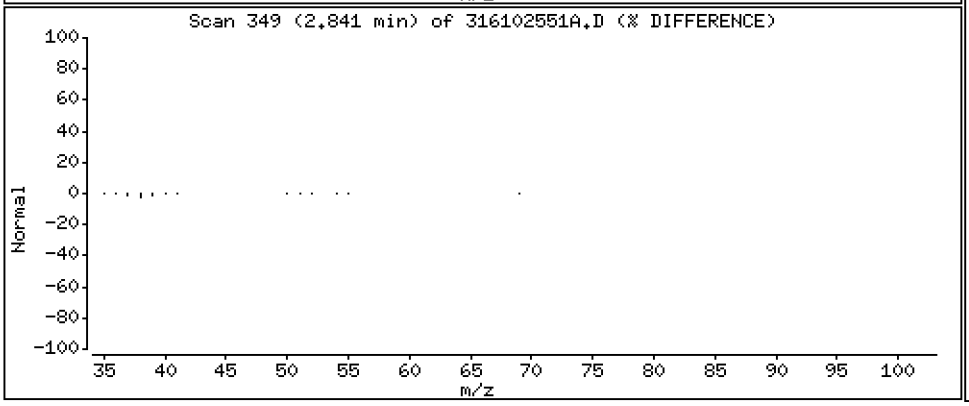
Column phase: DB-VRX Column diameter: 0.25

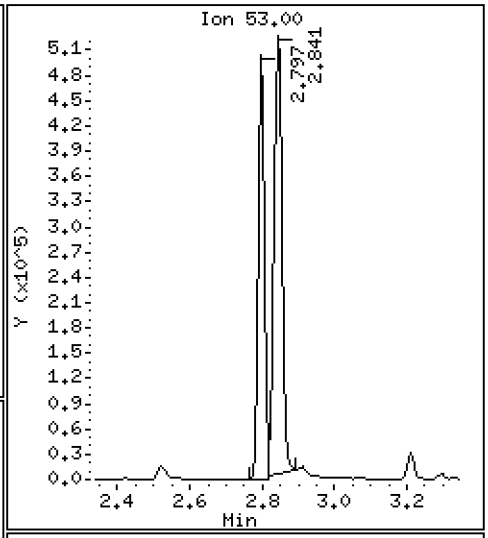
28 Acrylonitrile Concentration: 230.811 ug/L

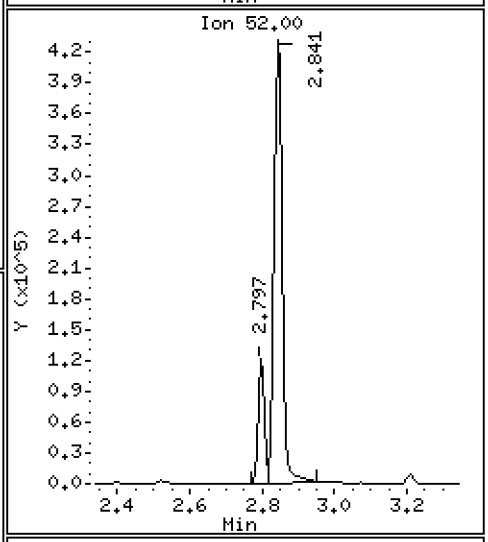


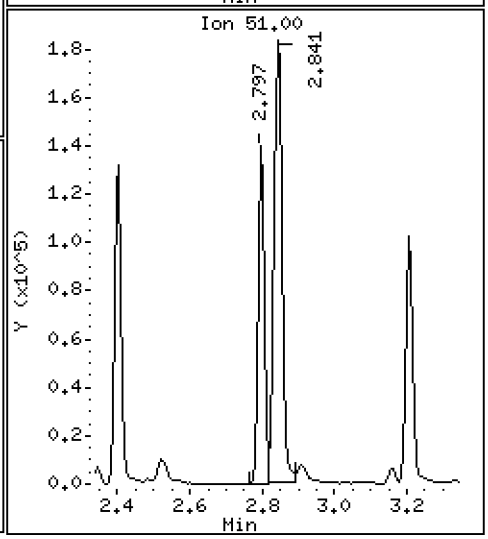












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 37

Date : 25-OCT-2016 21:59

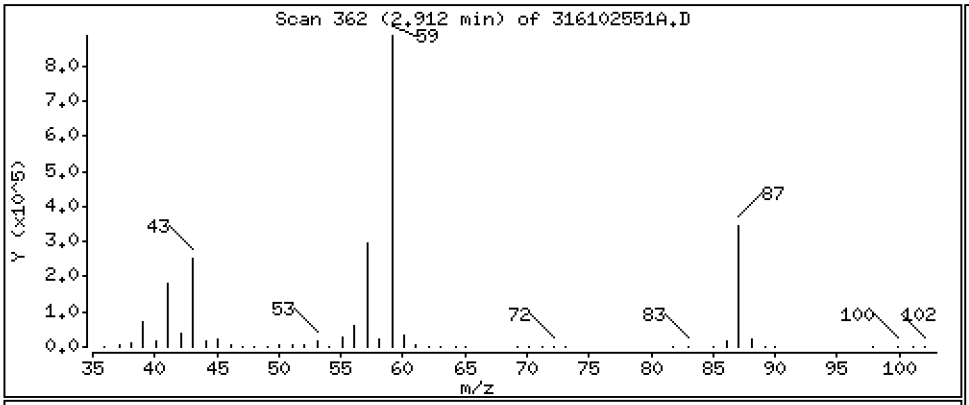
Client ID: Instrument: ms03.i

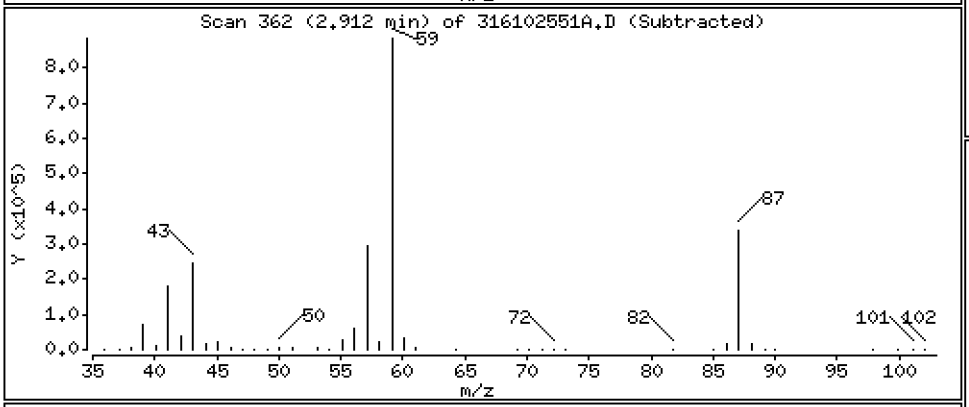
Sample Info: 1800;;1;2;4;;;

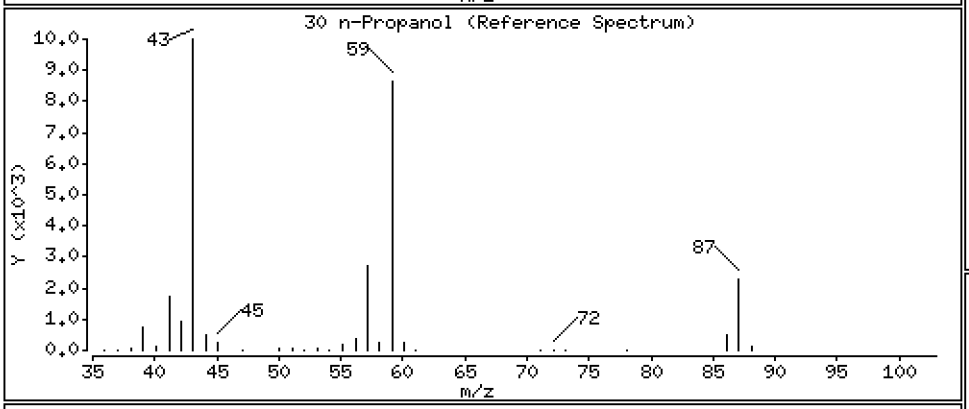
Purge Volume: 5.0 Operator: CJG

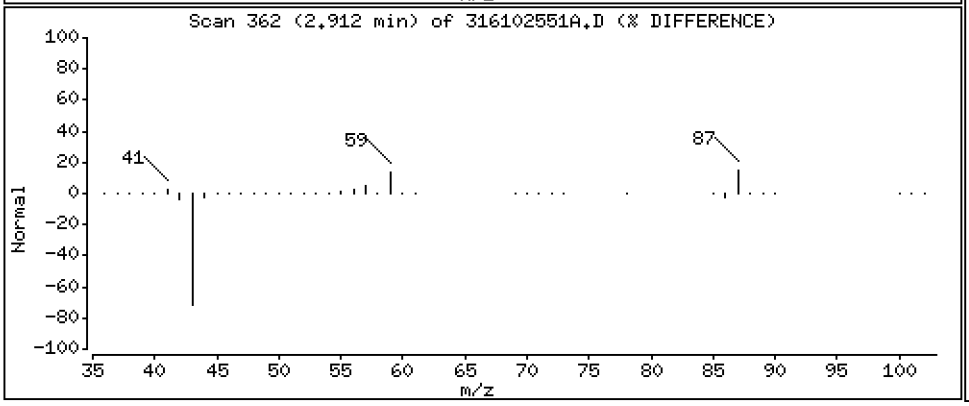
Column phase: DB-VRX Column diameter: 0.25

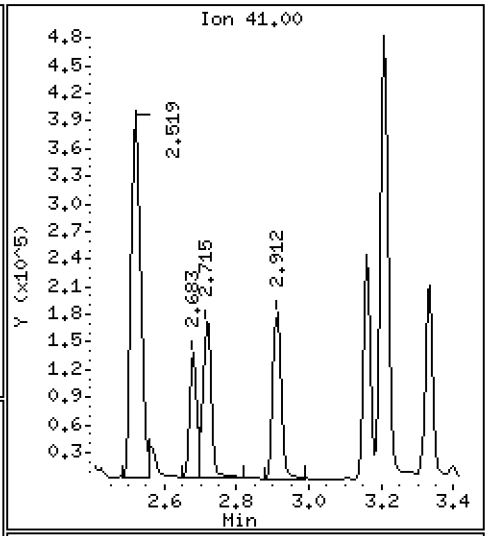
30 n-Propanol Concentration: 493.838 ug/L

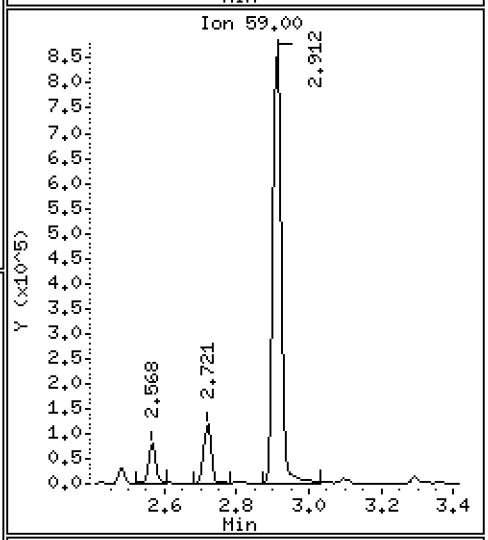


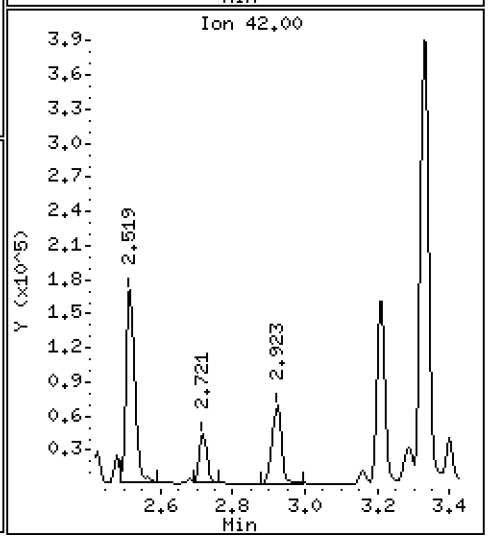












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 38

Date : 25-OCT-2016 21:59

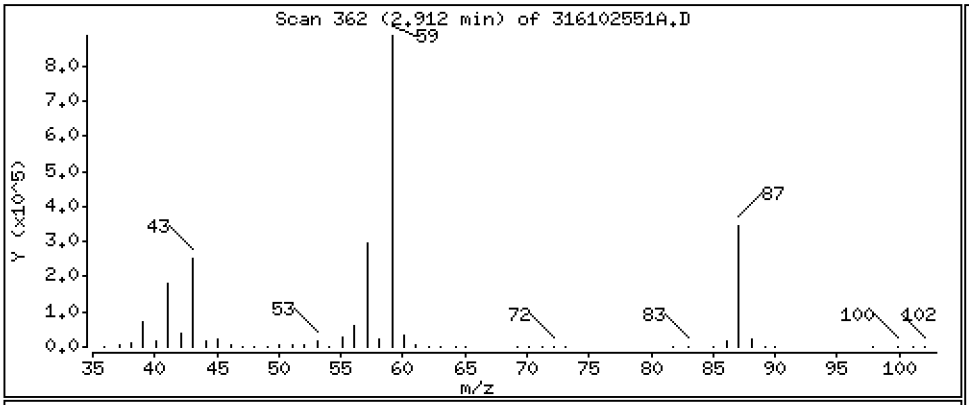
Client ID: Instrument: ms03.i

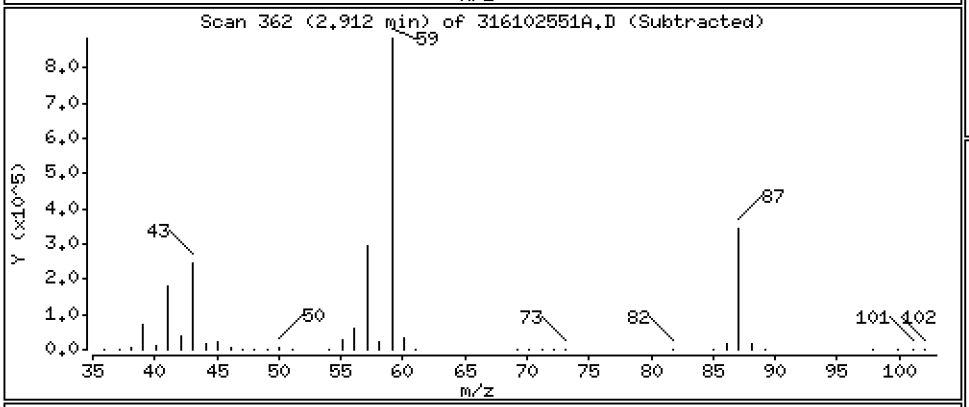
Sample Info: 1800;;1;2;4;;;

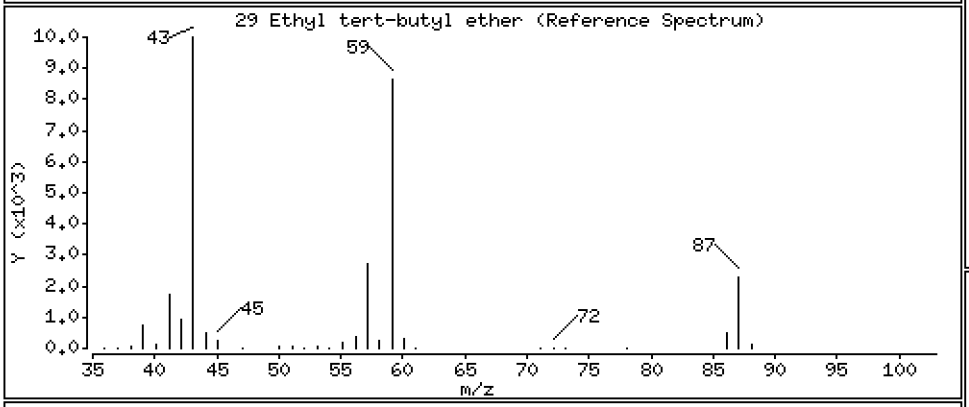
Purge Volume: 5.0 Operator: CJG

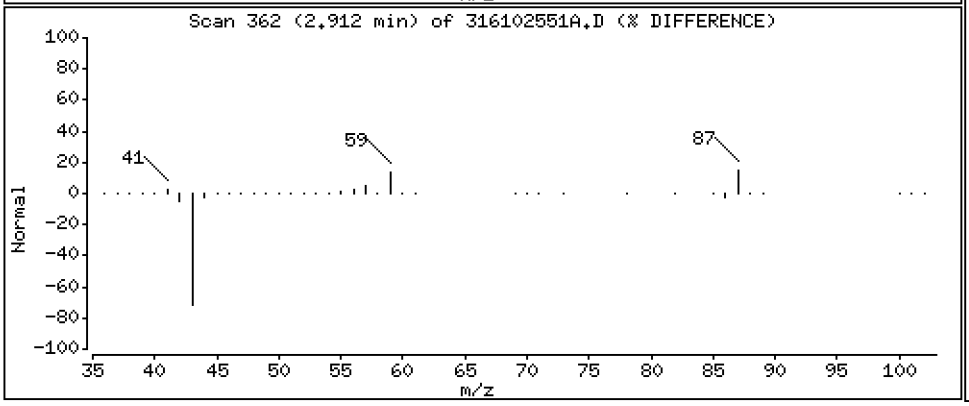
Column phase: DB-VRX Column diameter: 0.25

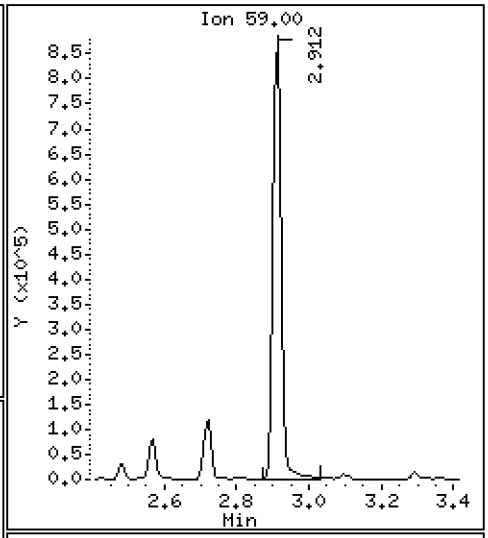
29 Ethyl tert-butyl ether Concentration: 48.9616 ug/L

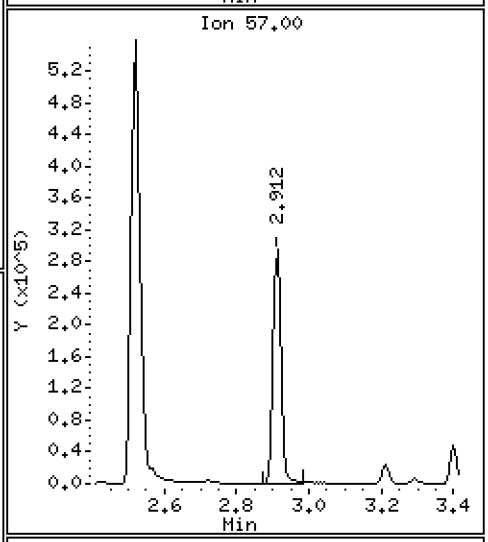


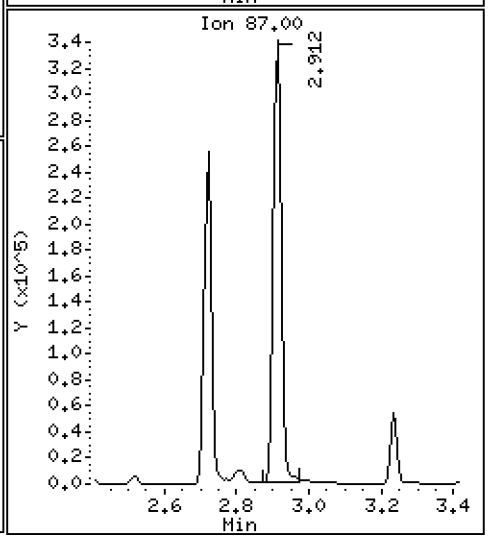












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 39

Date : 25-OCT-2016 21:59

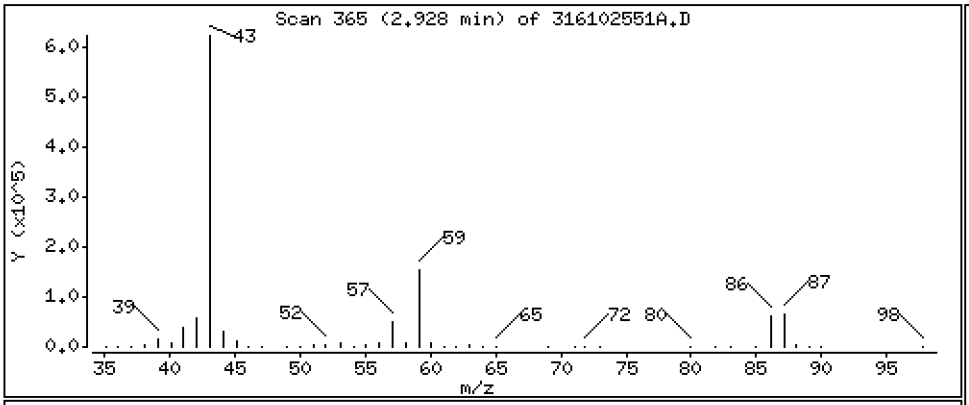
Client ID: Instrument: ms03.i

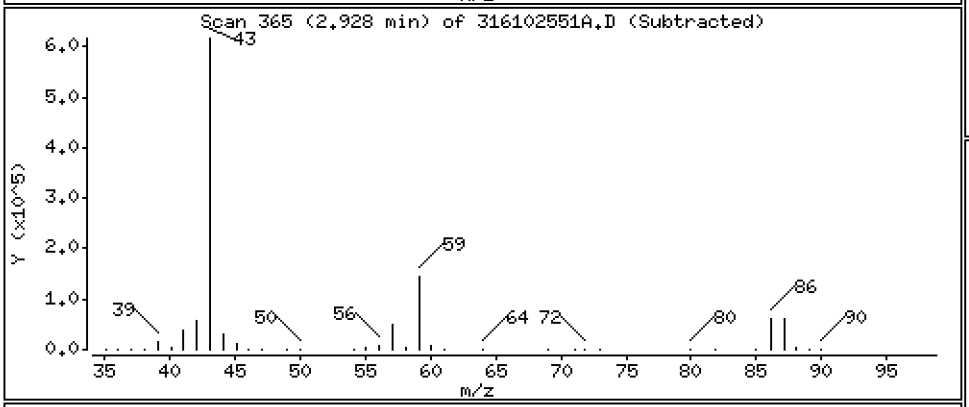
Sample Info: 1800;;1;2;4;;;

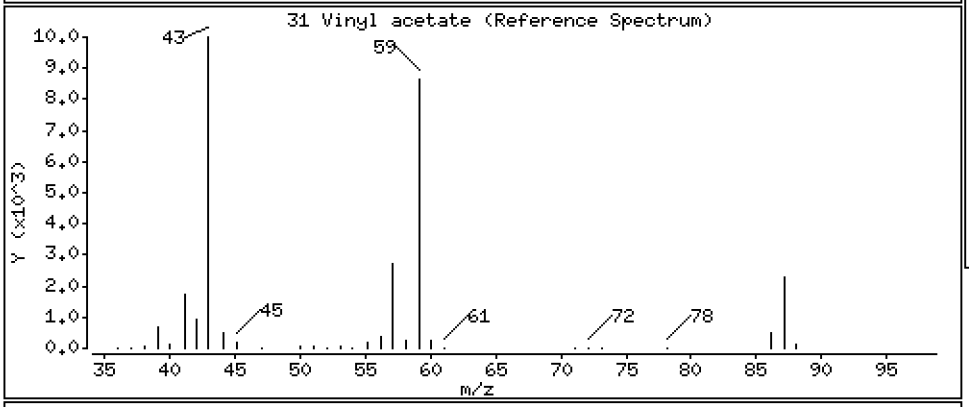
Purge Volume: 5.0 Operator: CJG

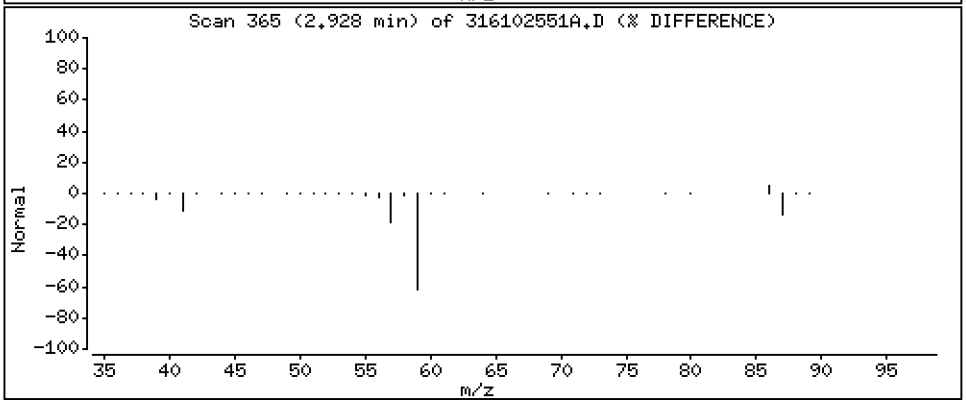
Column phase: DB-VRX Column diameter: 0.25

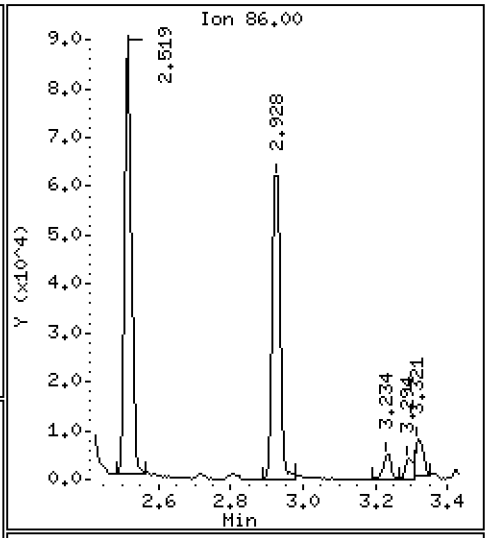
31 Vinyl acetate Concentration: 44.4386 ug/L

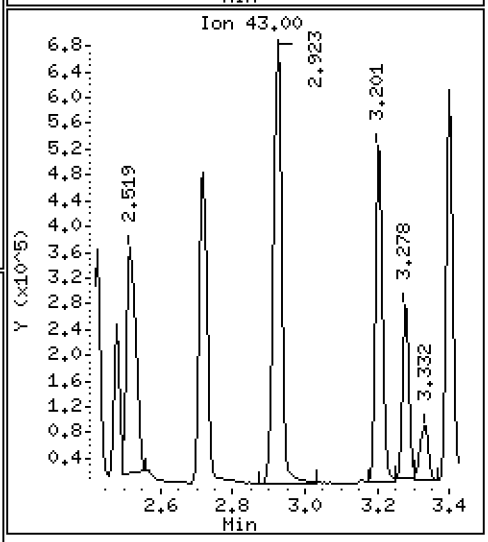












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 40

Date : 25-OCT-2016 21:59

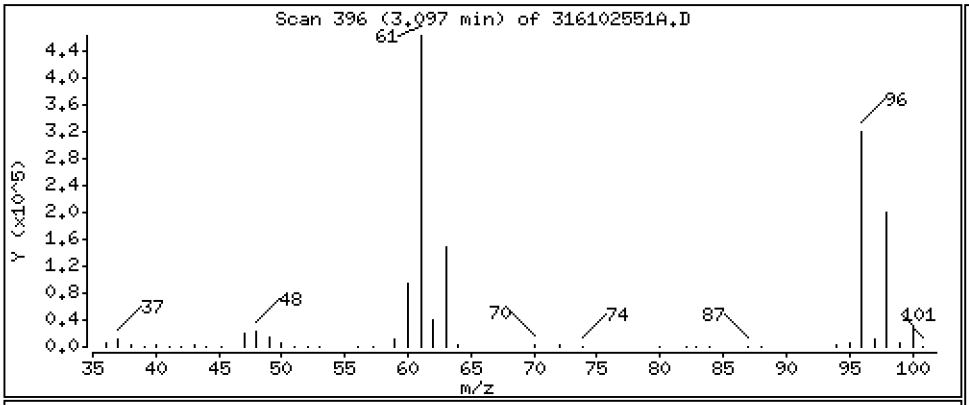
Client ID: Instrument: ms03.i

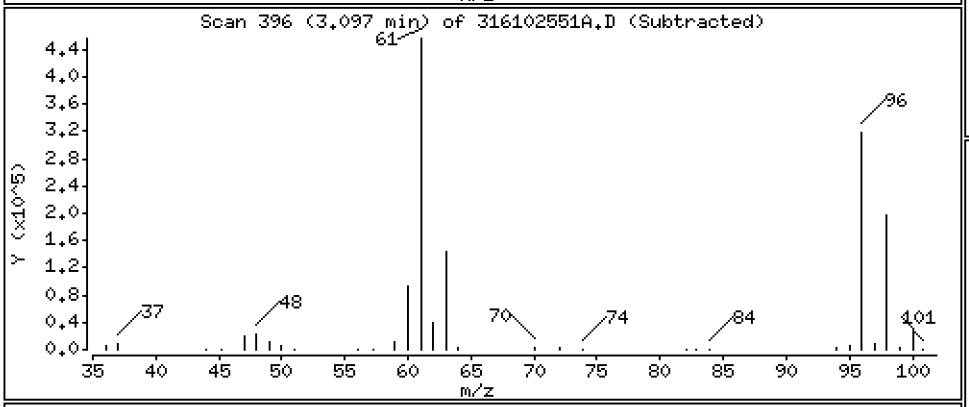
Sample Info: 1800;;1;2;4;;;

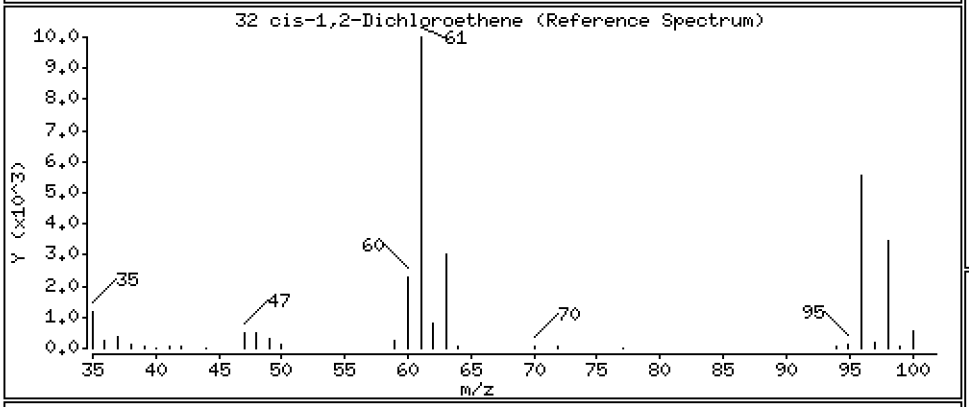
Purge Volume: 5.0 Operator: CJG

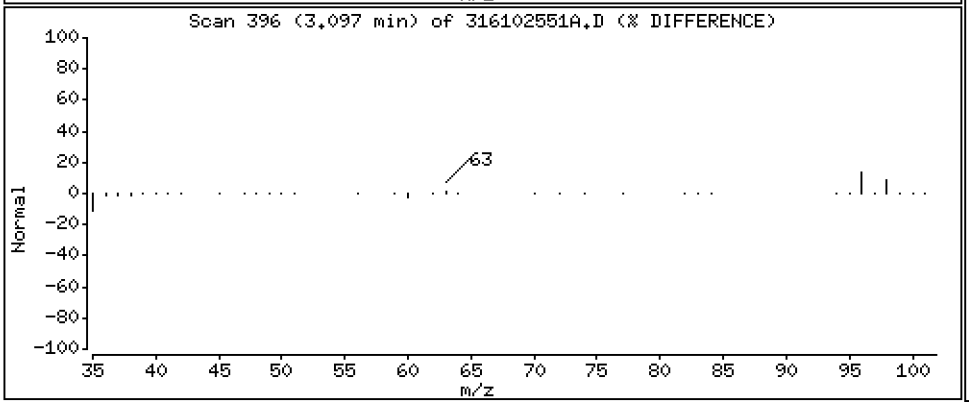
Column phase: DB-VRX Column diameter: 0.25

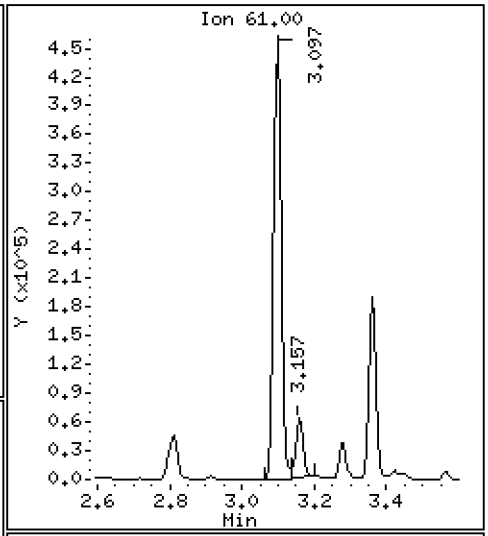
32 cis-1,2-Dichloroethene Concentration: 45.3089 ug/L

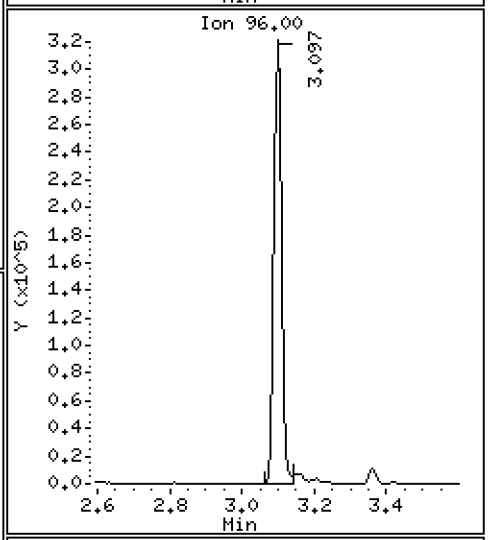


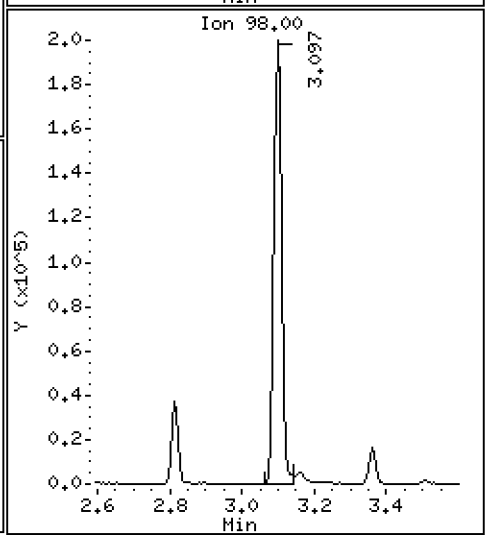












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 41

Date : 25-OCT-2016 21:59

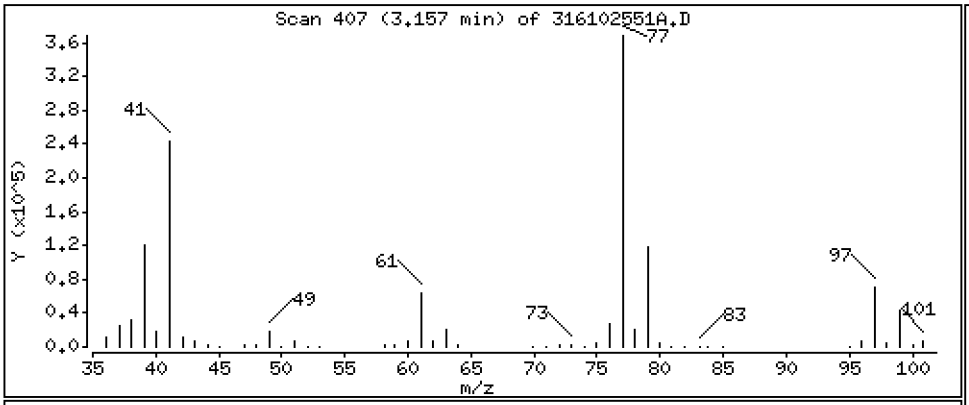
Client ID: Instrument: ms03.i

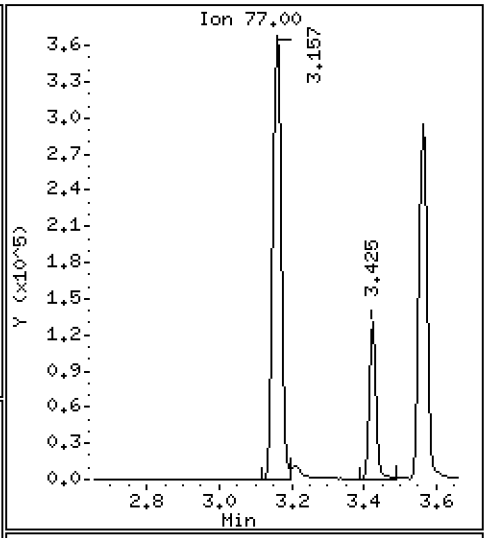
Sample Info: 1800;;1;2;4;;;

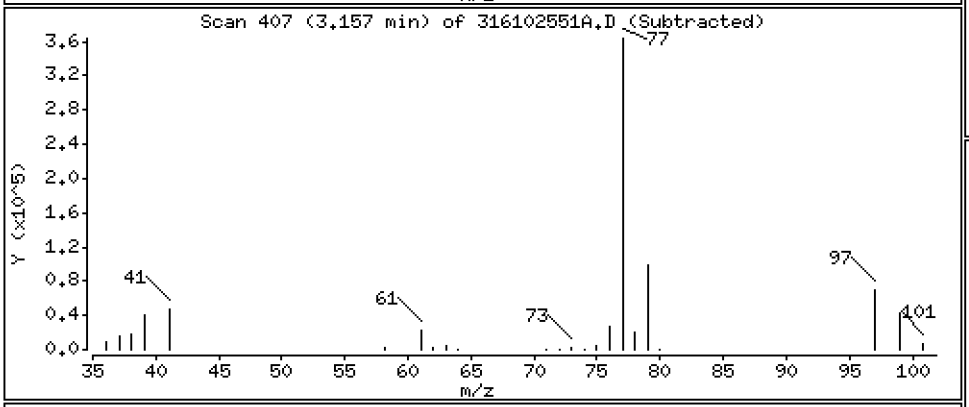
Purge Volume: 5.0 Operator: CJG

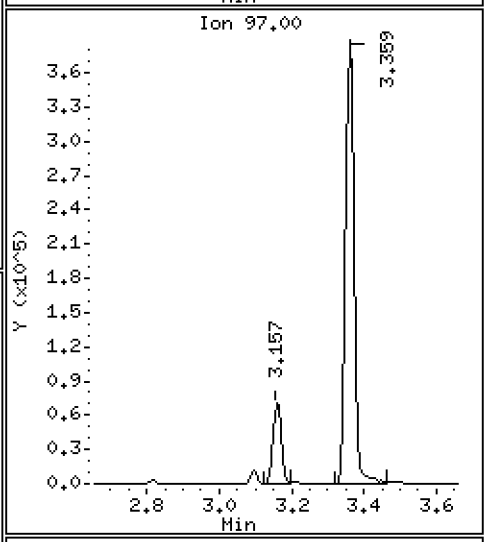
Column phase: DB-VRX Column diameter: 0.25

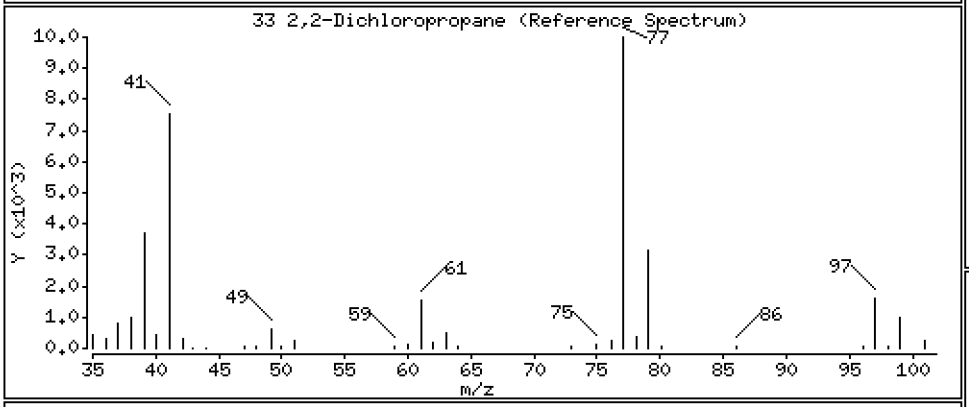
33 2,2-Dichloropropane Concentration: 51.1015 ug/L

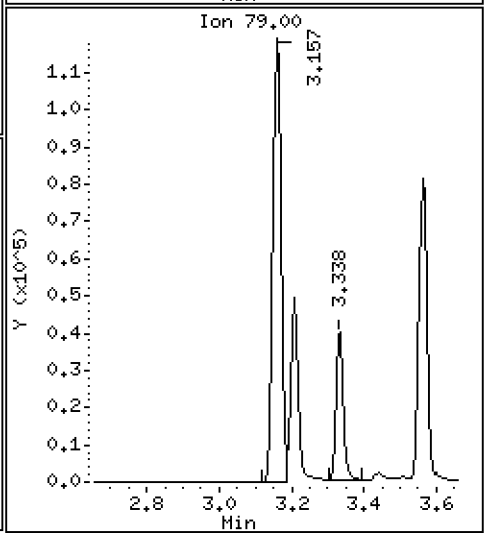


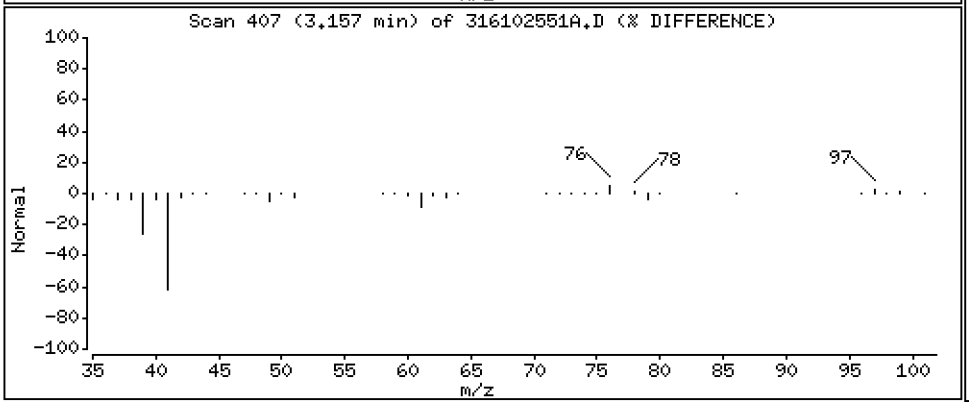












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 42

Date : 25-OCT-2016 21:59

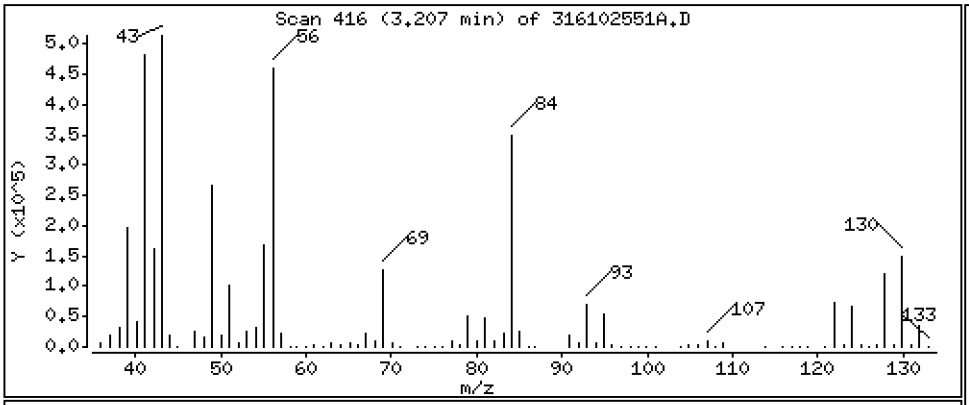
Client ID: Instrument: ms03.i

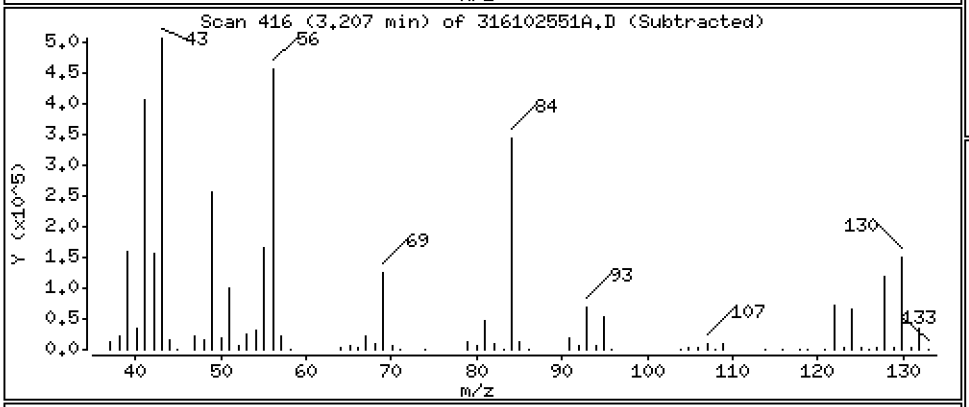
Sample Info: 1800;;1;2;4;;;

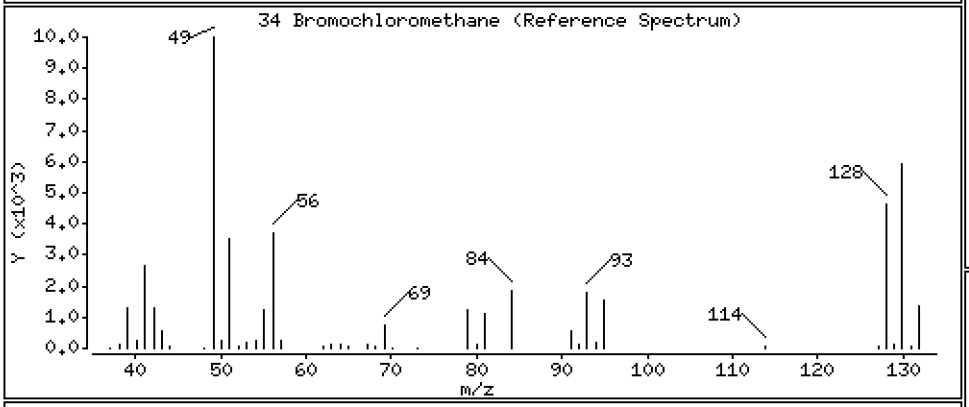
Purge Volume: 5.0 Operator: CJG

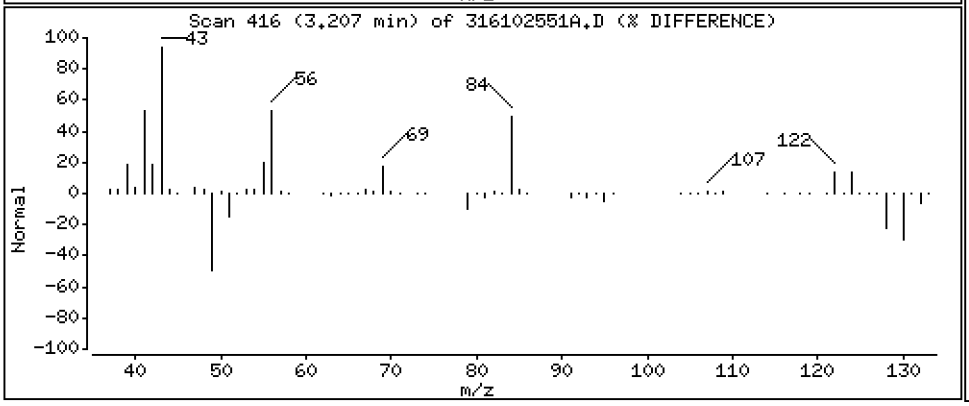
Column phase: DB-VRX Column diameter: 0.25

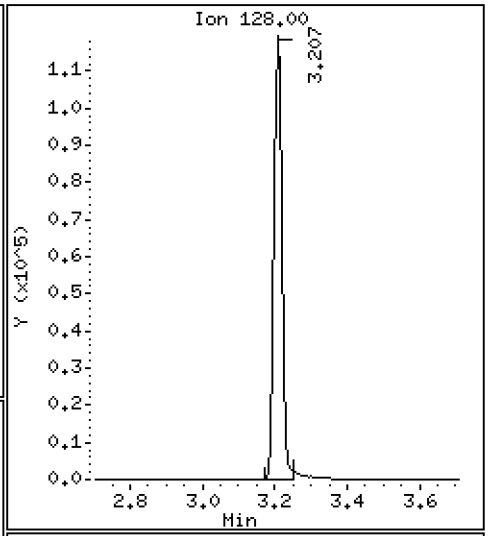
34 Bromochloromethane Concentration: 44.4777 ug/L

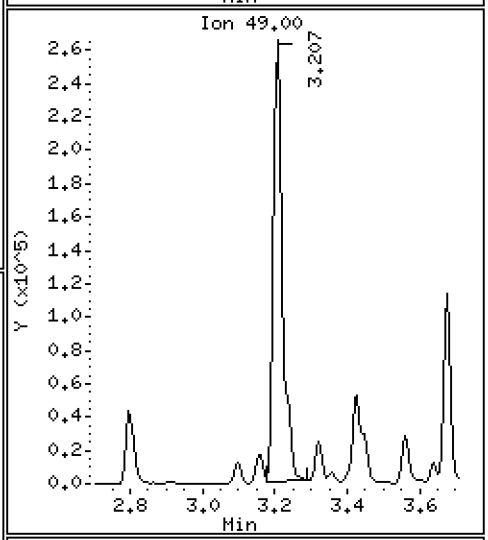


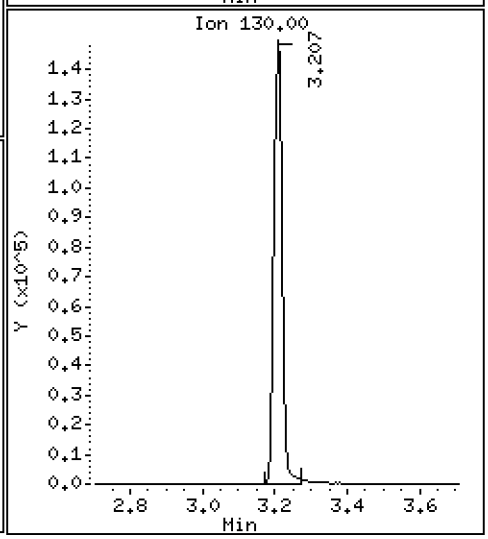












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 43

Date : 25-OCT-2016 21:59

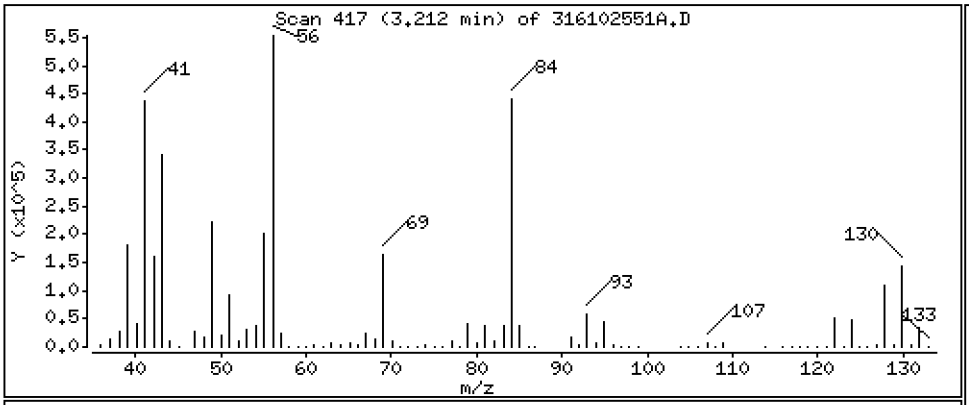
Client ID: Instrument: ms03.i

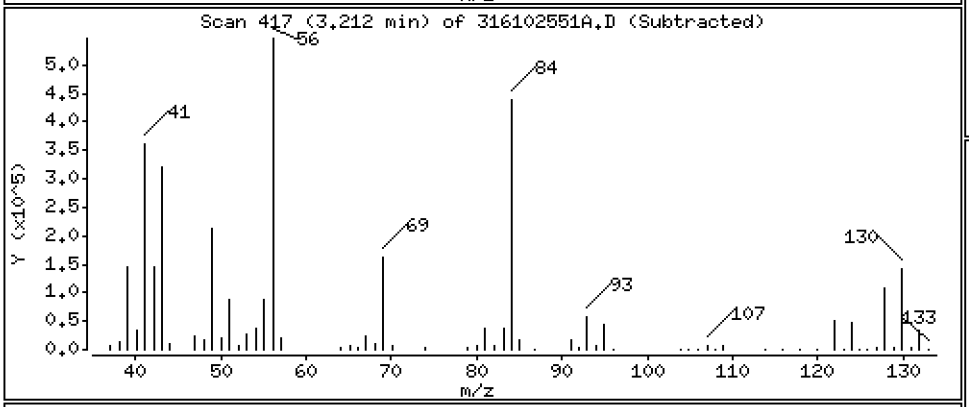
Sample Info: 1800;;1;2;4;;;

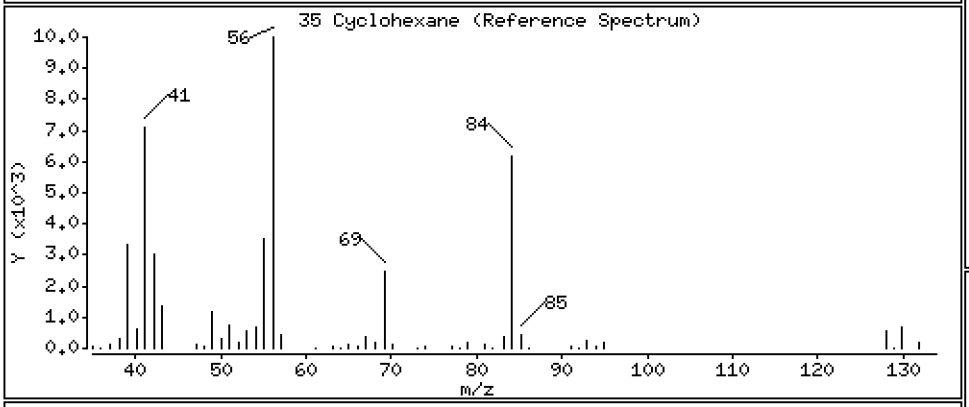
Purge Volume: 5.0 Operator: CJG

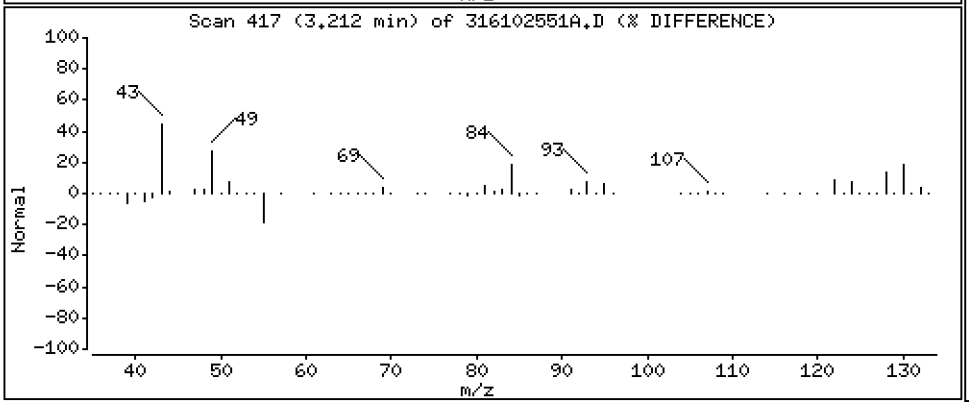
Column phase: DB-VRX Column diameter: 0.25

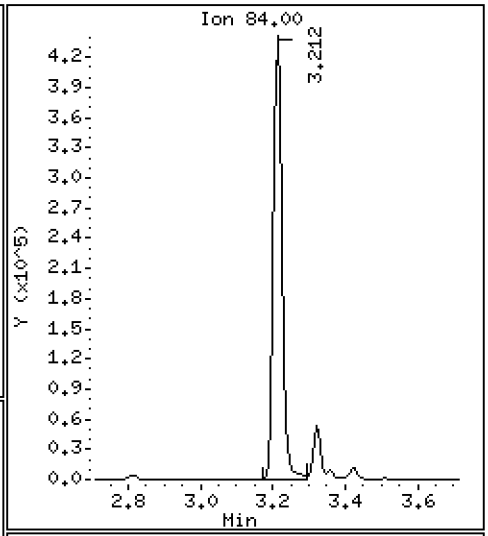
35 Cyclohexane Concentration: 46.9517 ug/L

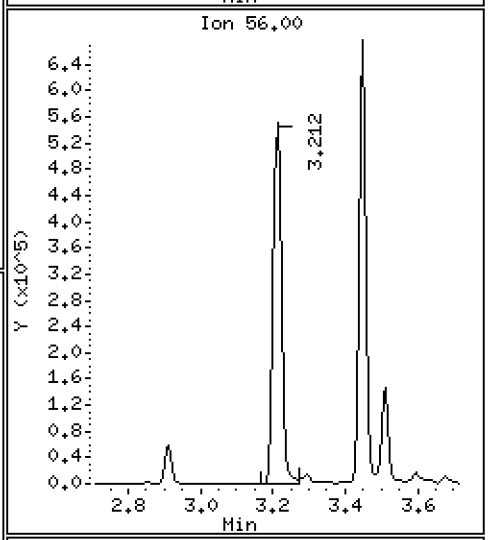


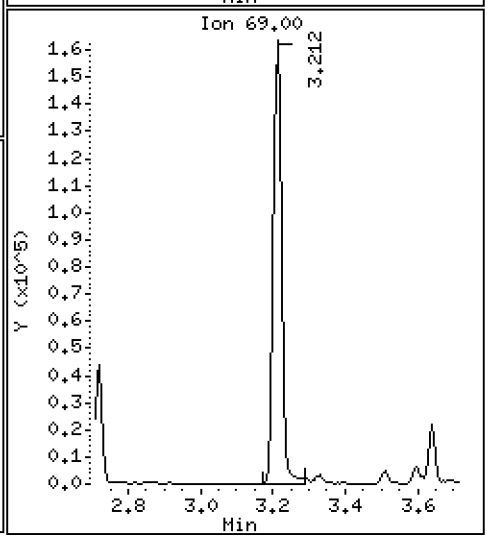












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 44

Date : 25-OCT-2016 21:59

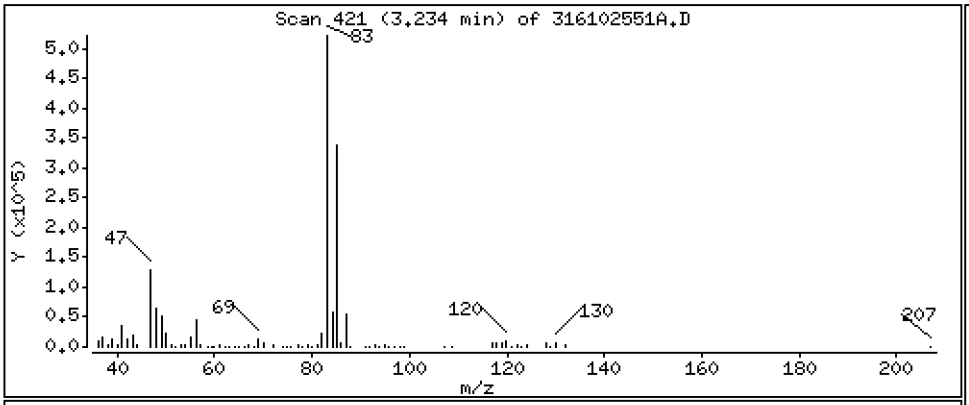
Client ID: Instrument: ms03.i

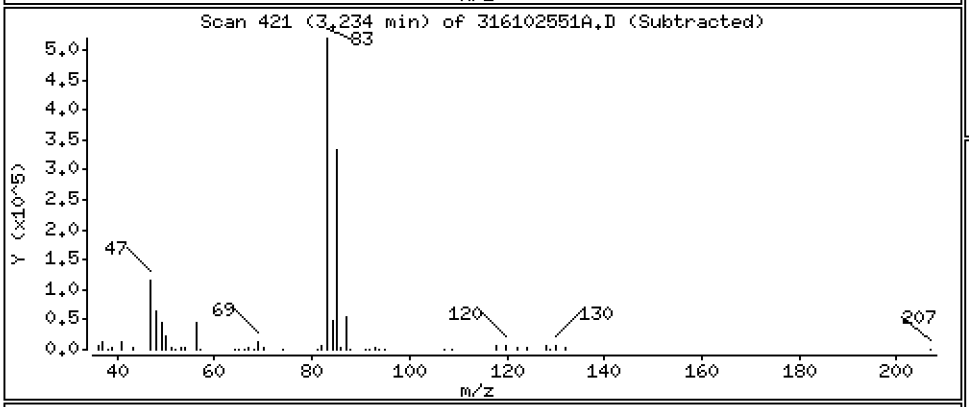
Sample Info: 1800;;1;2;4;;;

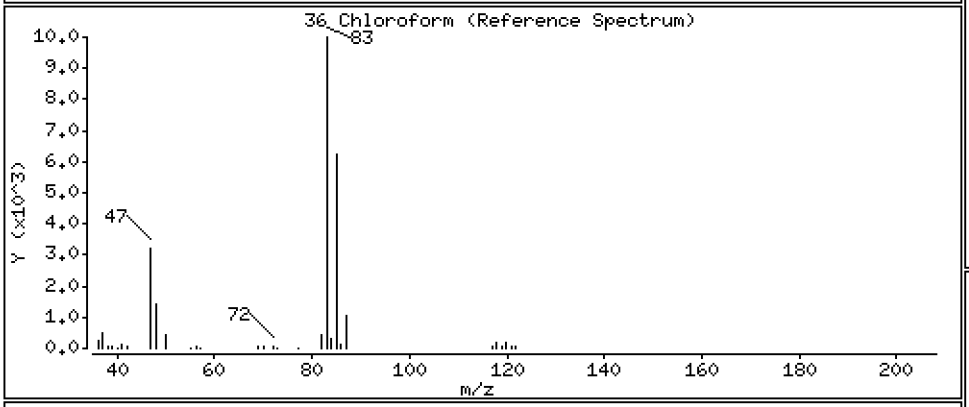
Purge Volume: 5.0 Operator: CJG

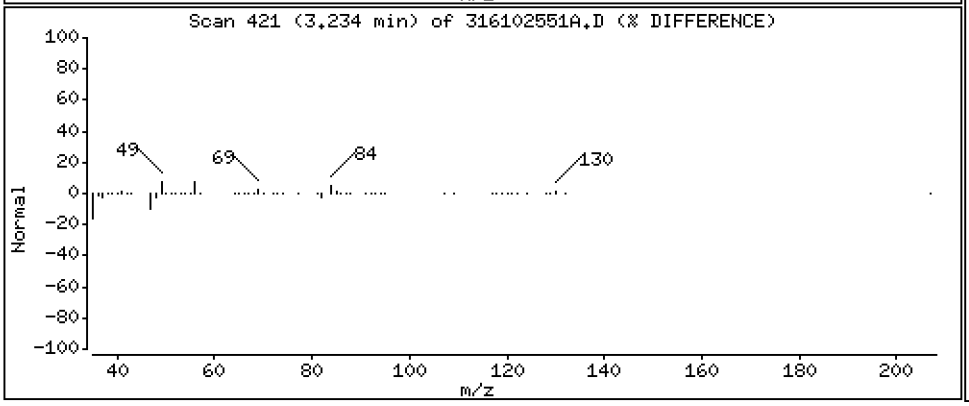
Column phase: DB-VRX Column diameter: 0.25

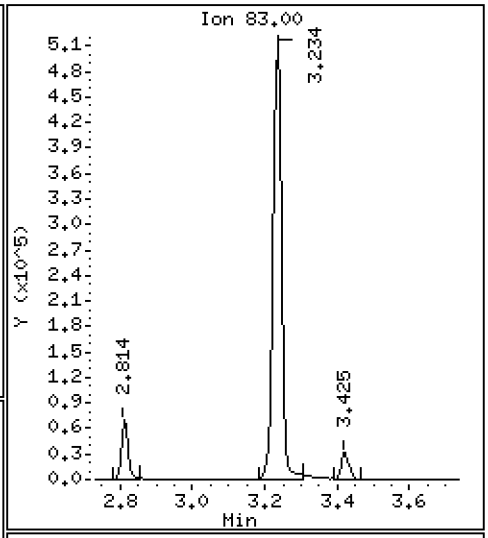
36 Chloroform Concentration: 48.0469 ug/L

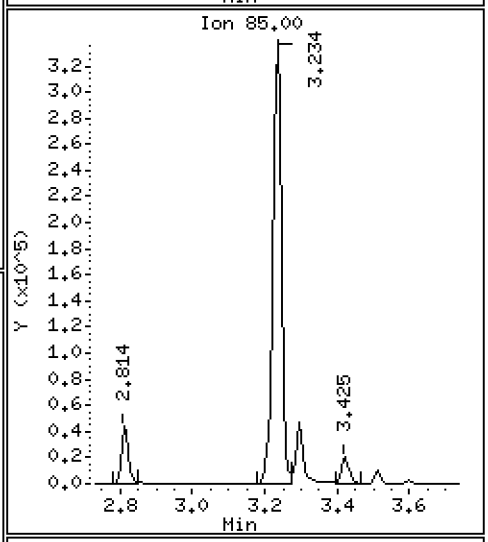


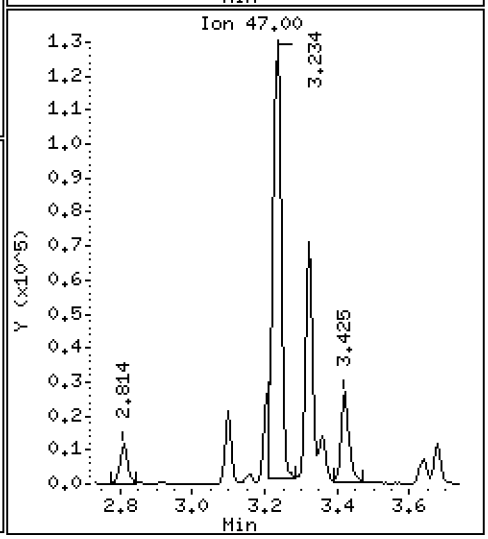












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 45

Date : 25-OCT-2016 21:59

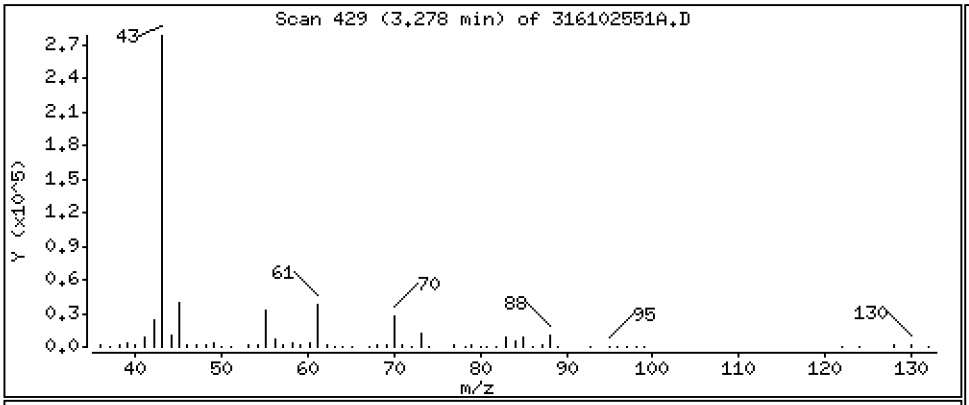
Client ID: Instrument: ms03.i

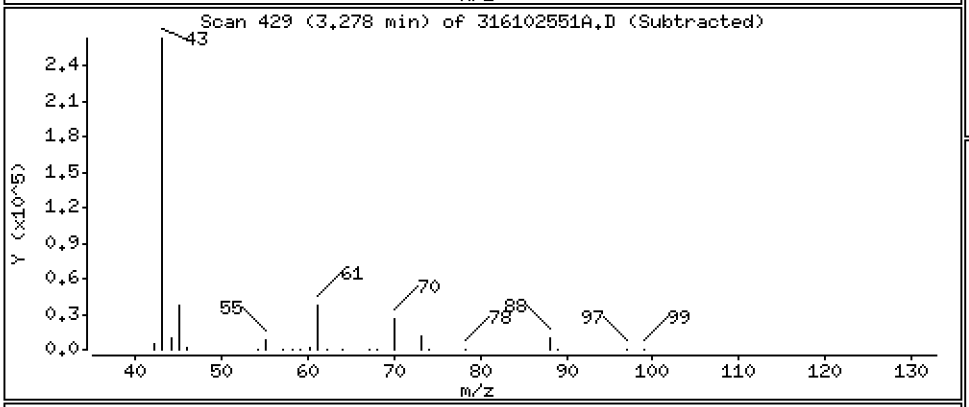
Sample Info: 1800;;1;2;4;;;

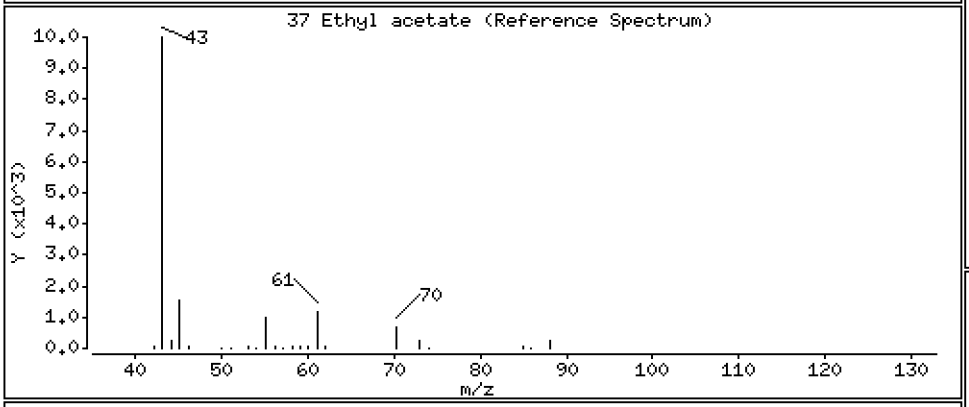
Purge Volume: 5.0 Operator: CJG

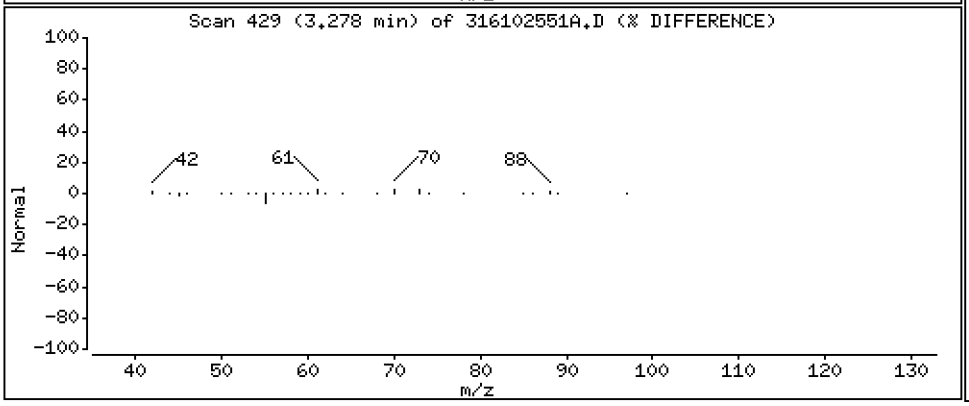
Column phase: DB-VRX Column diameter: 0.25

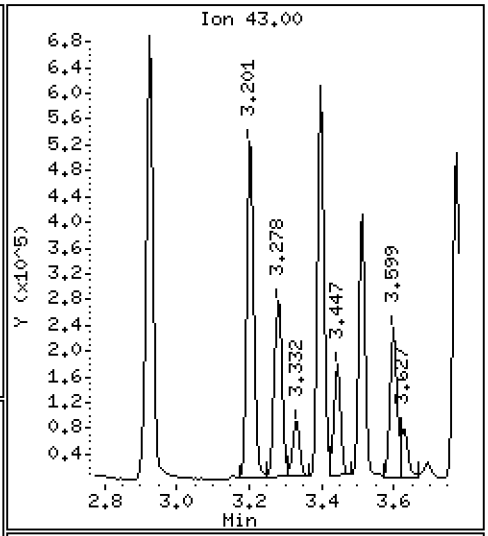
37 Ethyl acetate Concentration: 48.6240 ug/L

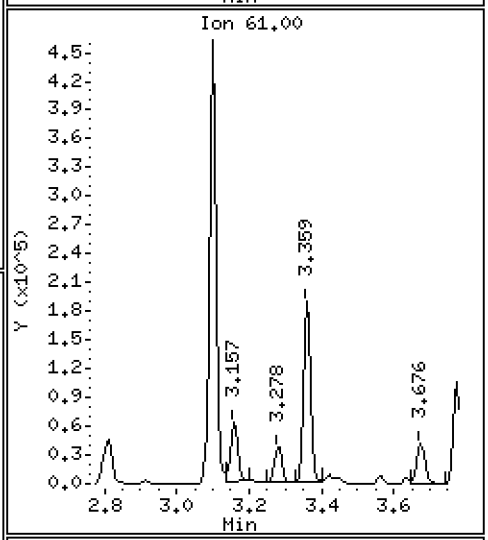


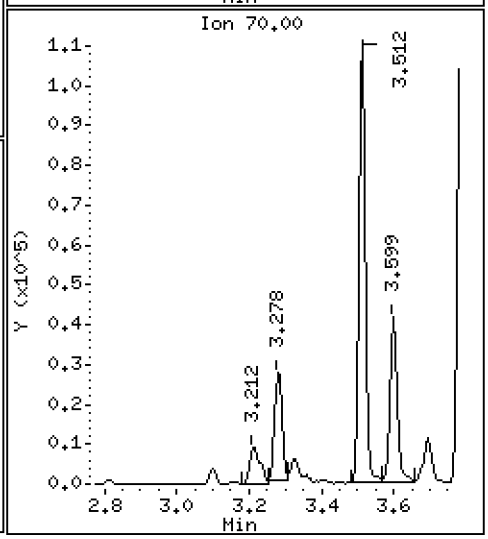












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 46

Date : 25-OCT-2016 21:59

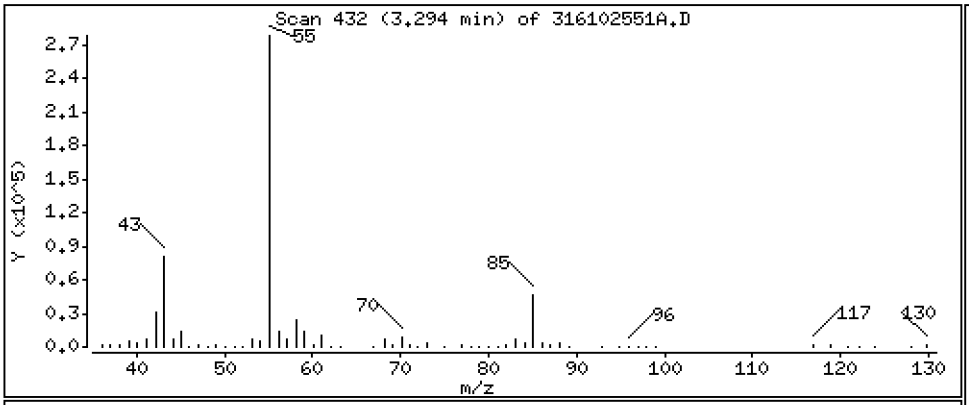
Client ID: Instrument: ms03.i

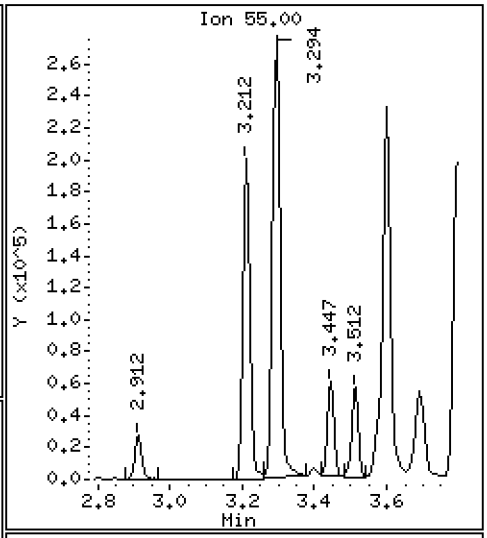
Sample Info: 1800;;1;2;4;;;

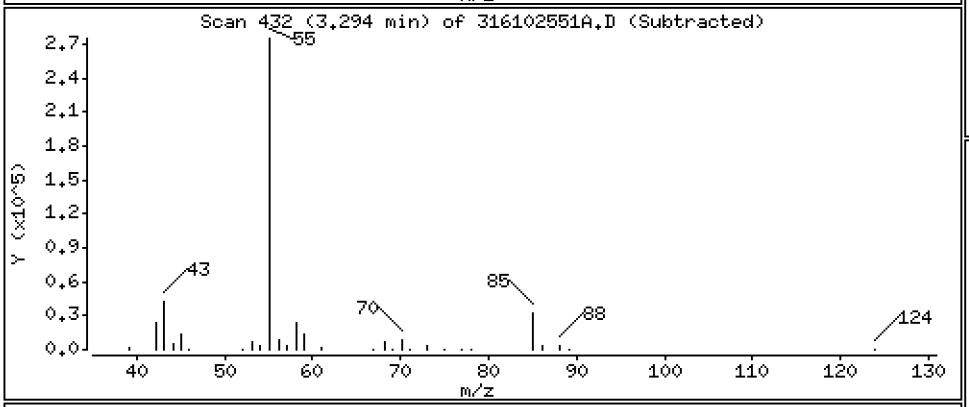
Purge Volume: 5.0 Operator: CJG

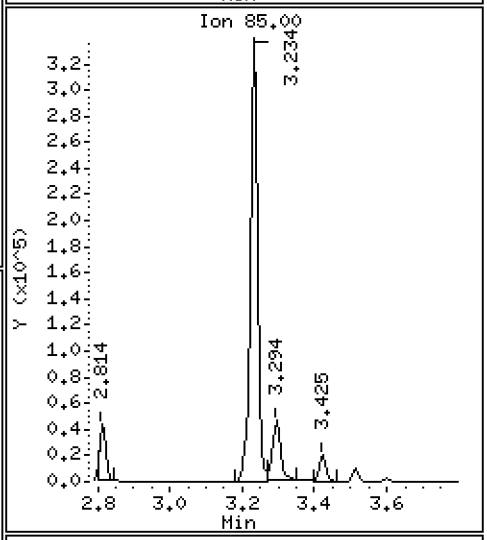
Column phase: DB-VRX Column diameter: 0.25

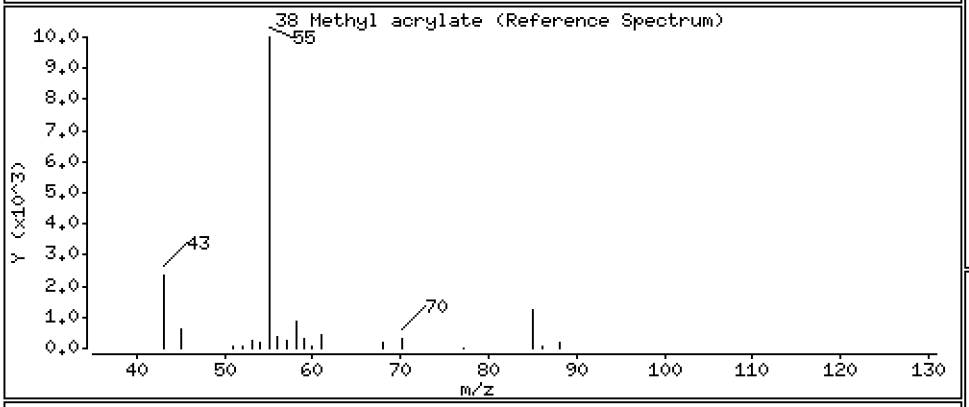
38 Methyl acrylate Concentration: 49.5564 ug/L

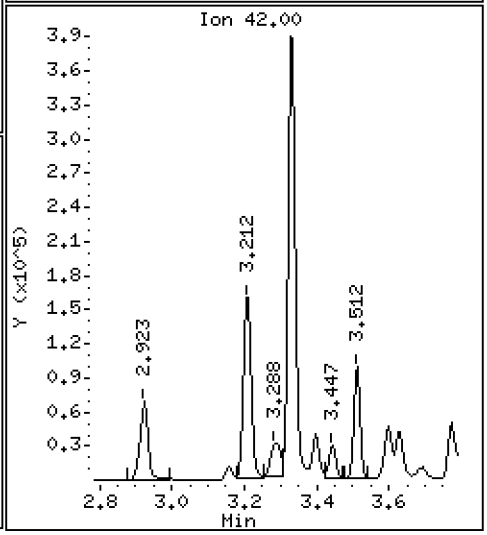


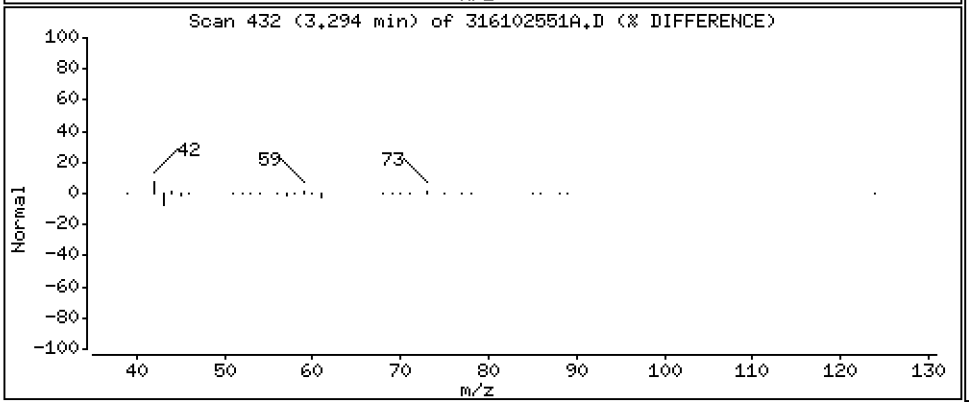












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 47

Date : 25-OCT-2016 21:59

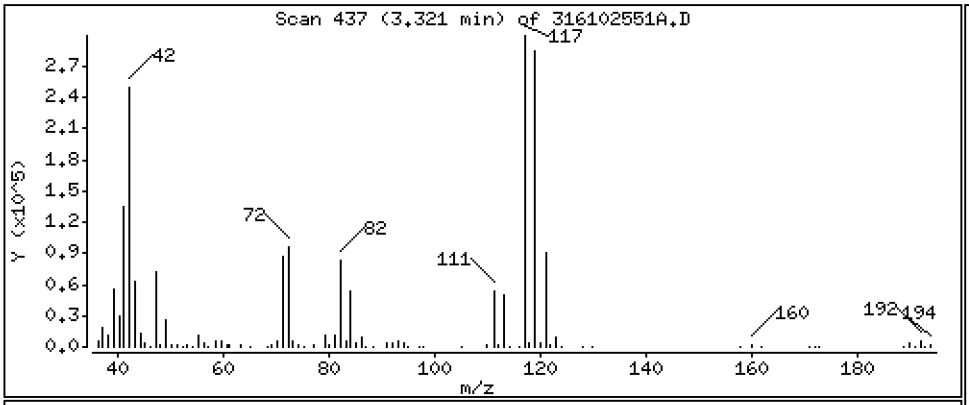
Client ID: Instrument: ms03.i

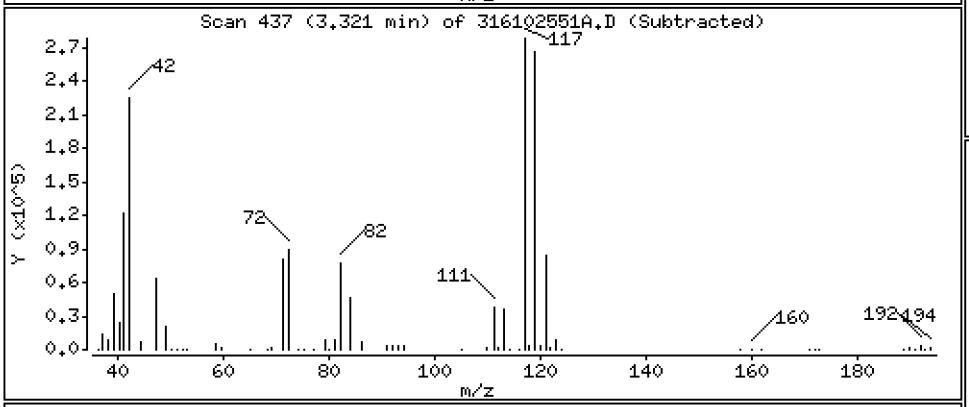
Sample Info: 1800;;1;2;4;;;

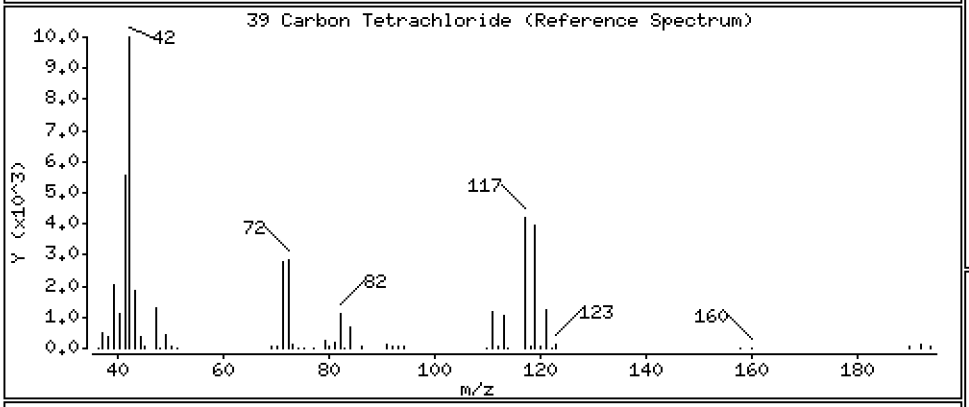
Purge Volume: 5.0 Operator: CJG

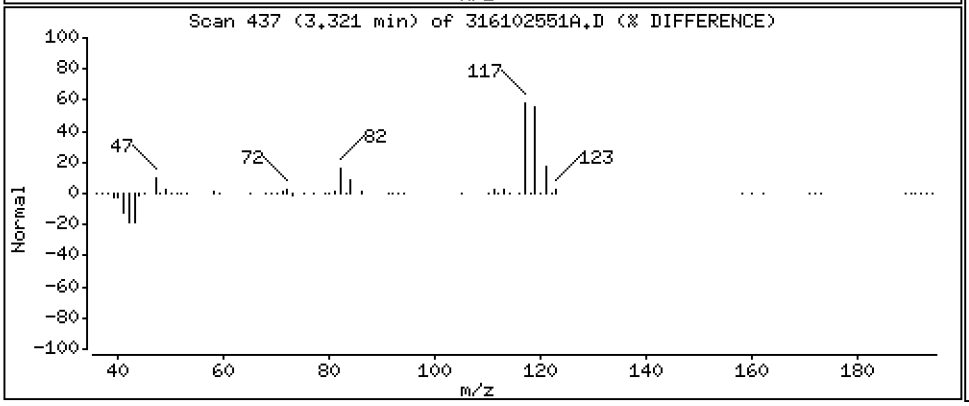
Column phase: DB-VRX Column diameter: 0.25

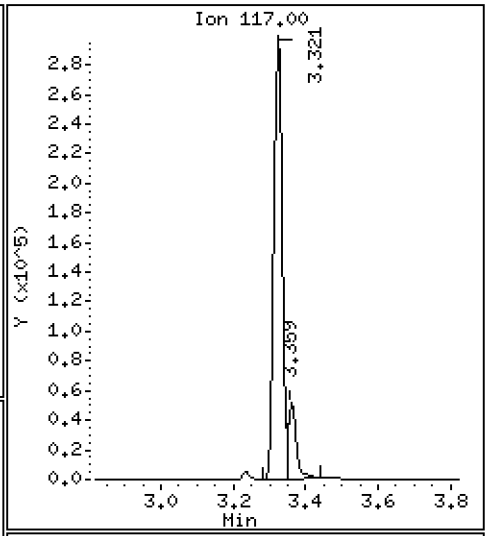
39 Carbon Tetrachloride Concentration: 47.4668 ug/L

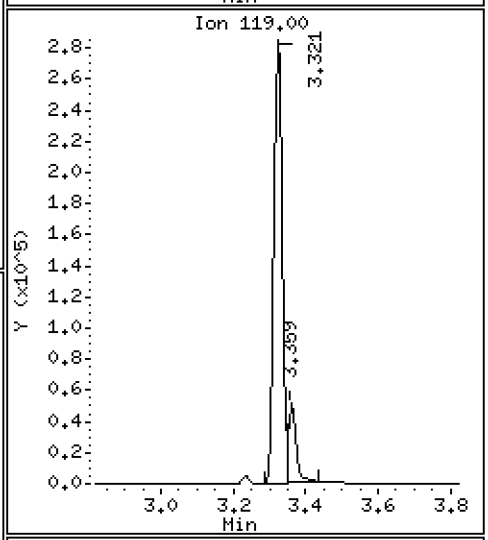


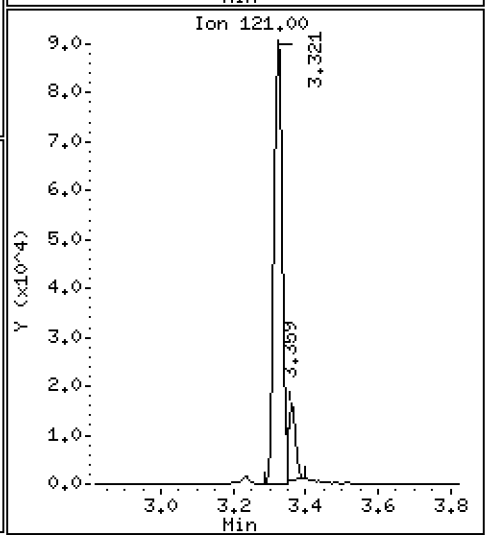












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 48

Date : 25-OCT-2016 21:59

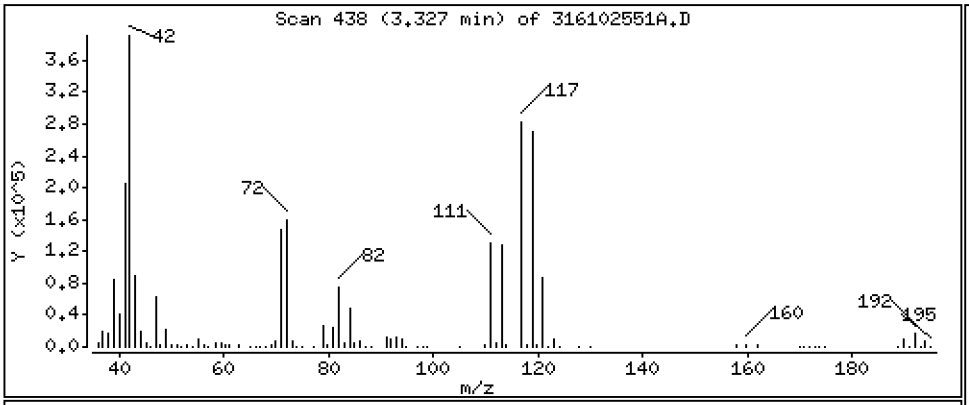
Client ID: Instrument: ms03.i

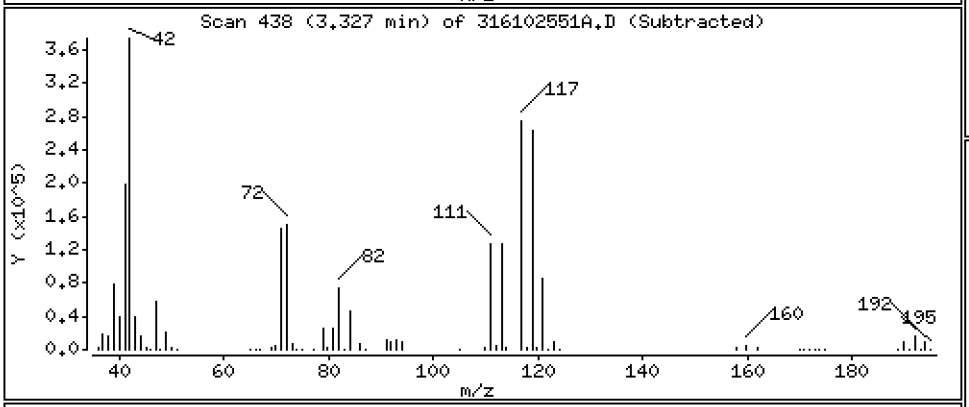
Sample Info: 1800;;1;2;4;;;

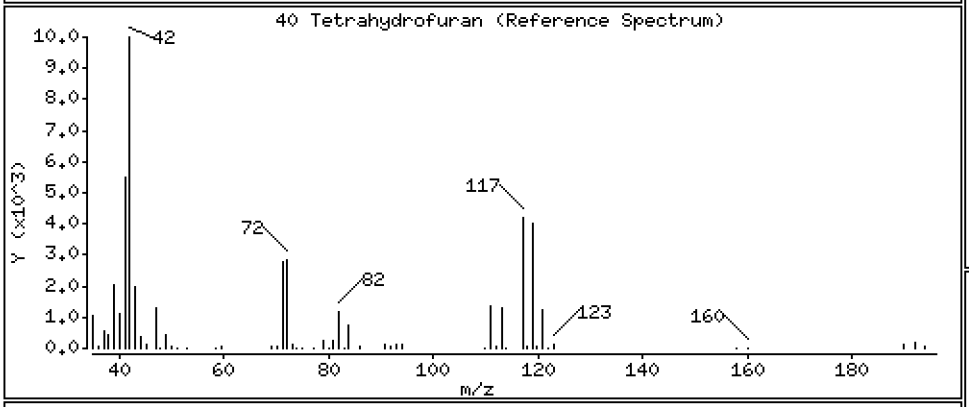
Purge Volume: 5.0 Operator: CJG

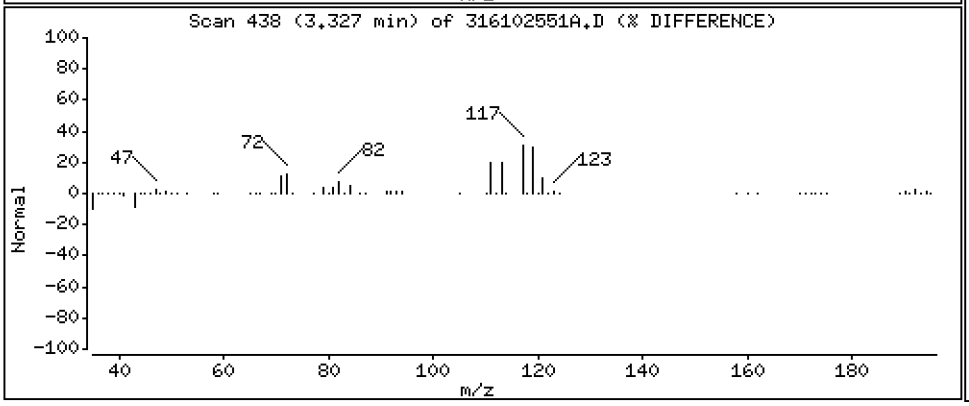
Column phase: DB-VRX Column diameter: 0.25

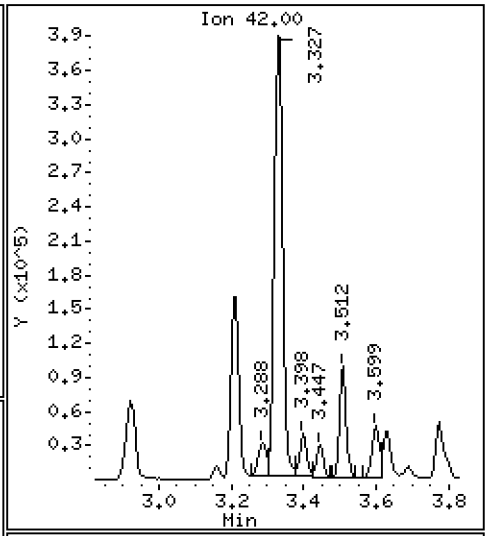
40 Tetrahydrofuran Concentration: 237.376 ug/L

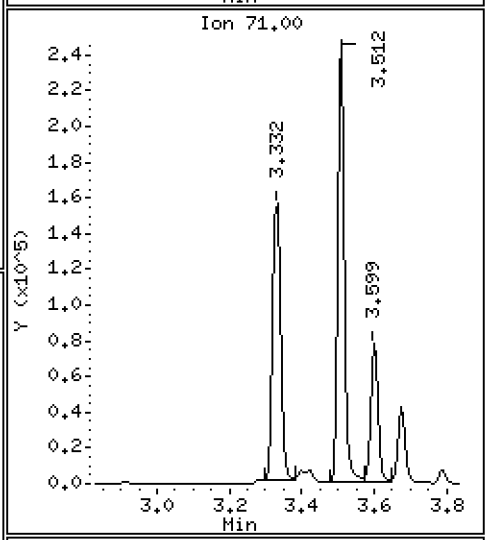


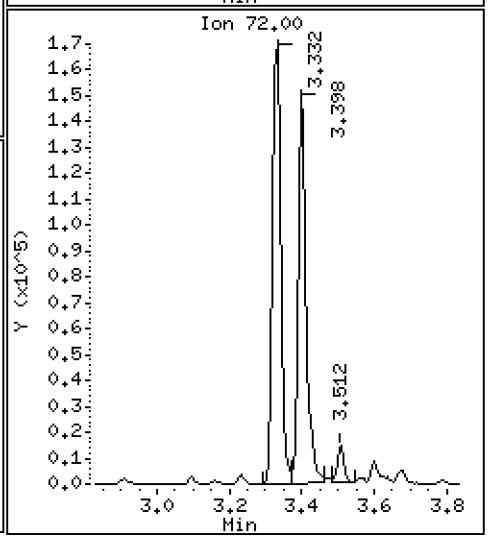












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 49

Date : 25-OCT-2016 21:59

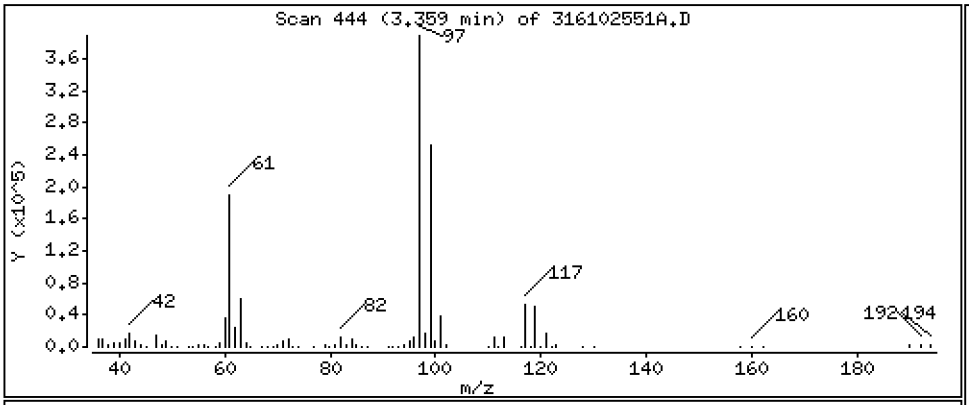
Client ID: Instrument: ms03.i

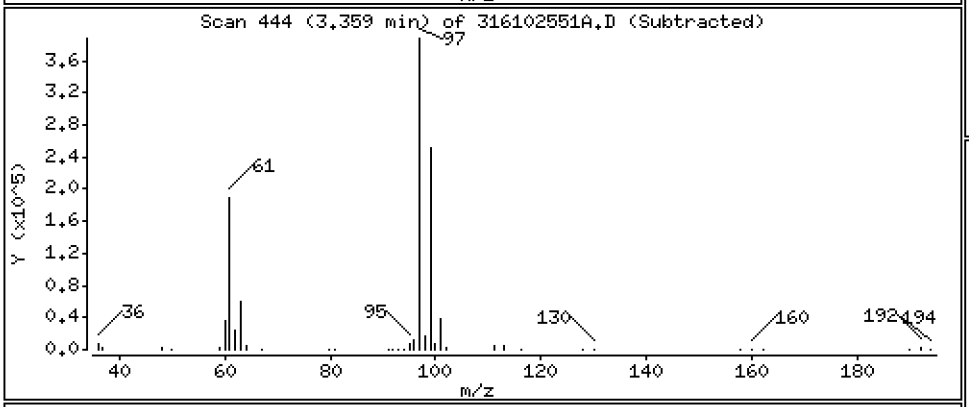
Sample Info: 1800;;1;2;4;;;

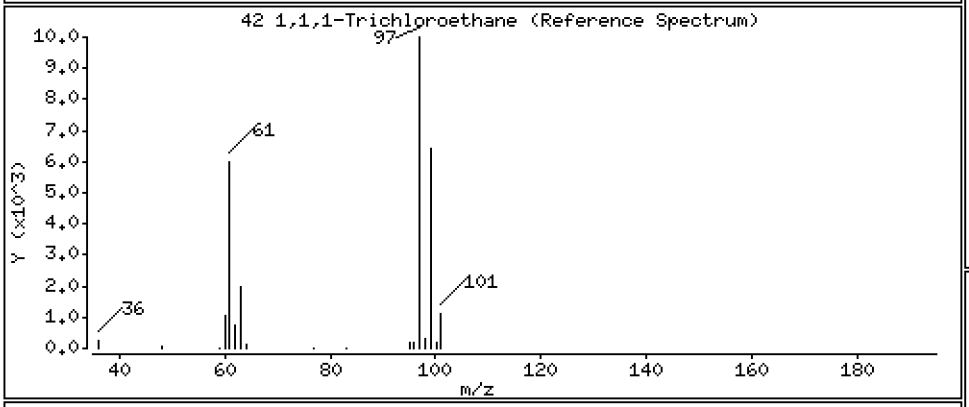
Purge Volume: 5.0 Operator: CJG

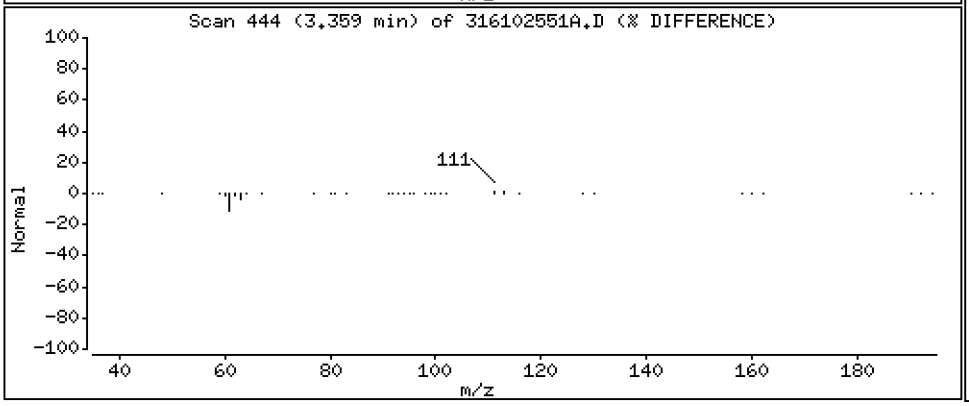
Column phase: DB-VRX Column diameter: 0.25

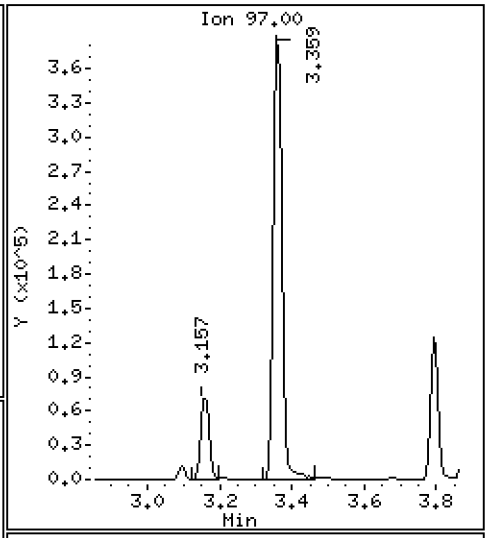
42 1,1,1-Trichloroethane Concentration: 47.9103 ug/L

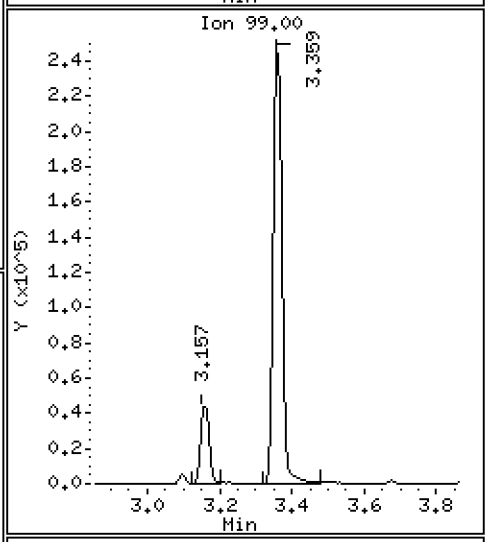


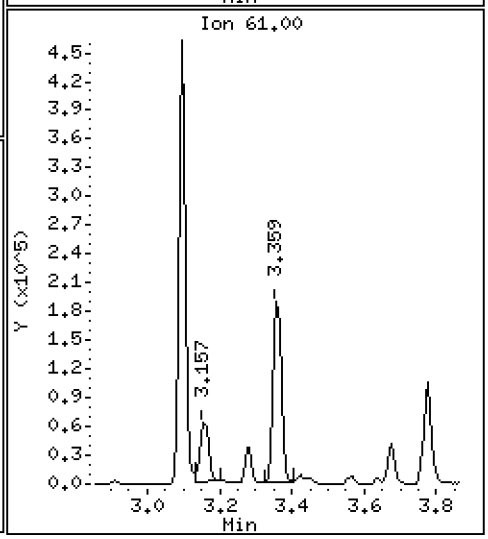












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 50

Date : 25-OCT-2016 21:59

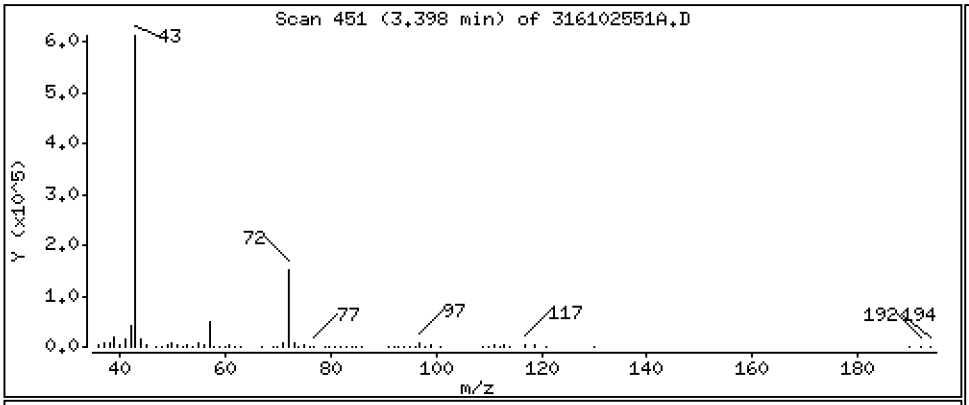
Client ID: Instrument: ms03.i

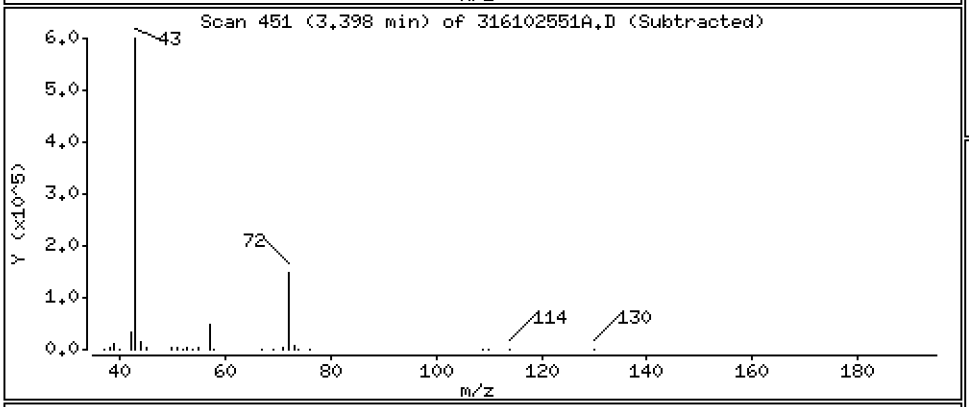
Sample Info: 1800;;1;2;4;;;

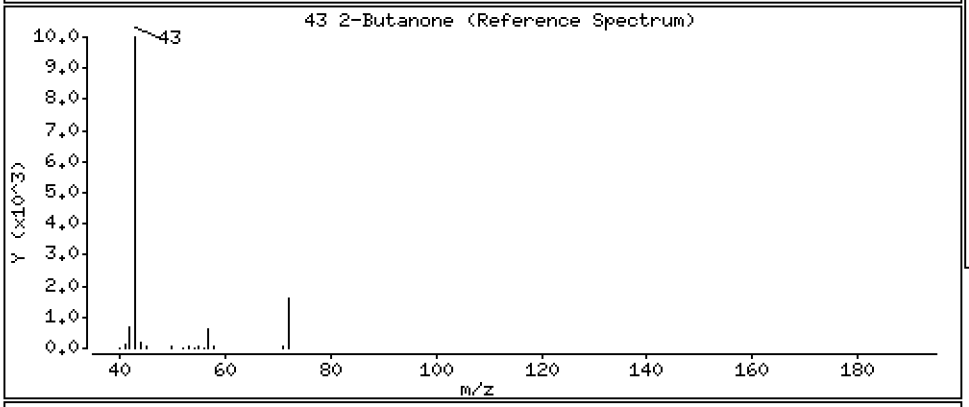
Purge Volume: 5.0 Operator: CJG

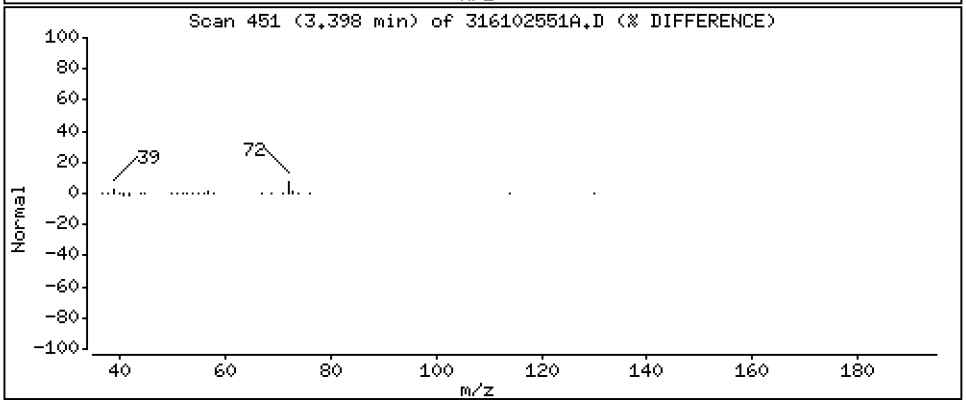
Column phase: DB-VRX Column diameter: 0.25

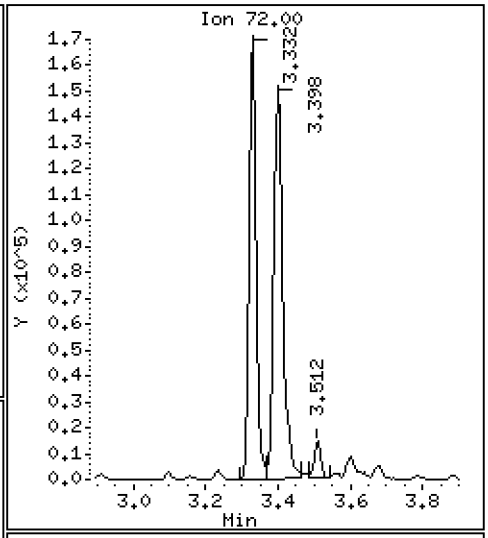
43 2-Butanone Concentration: 233.262 ug/L

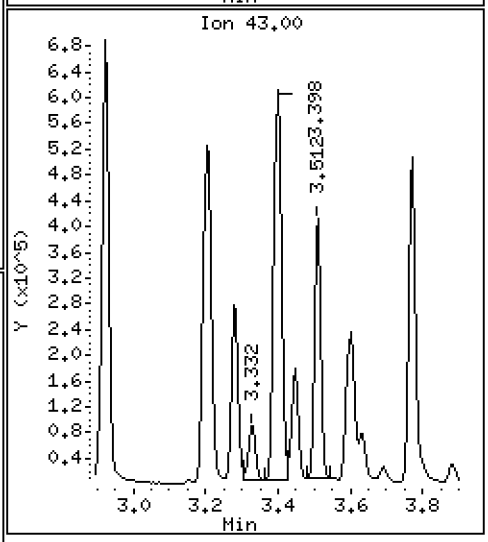












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 51

Date : 25-OCT-2016 21:59

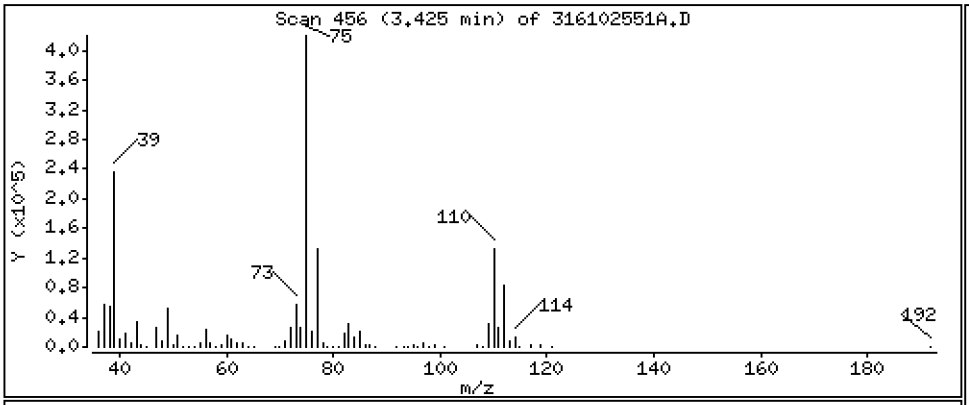
Client ID: Instrument: ms03.i

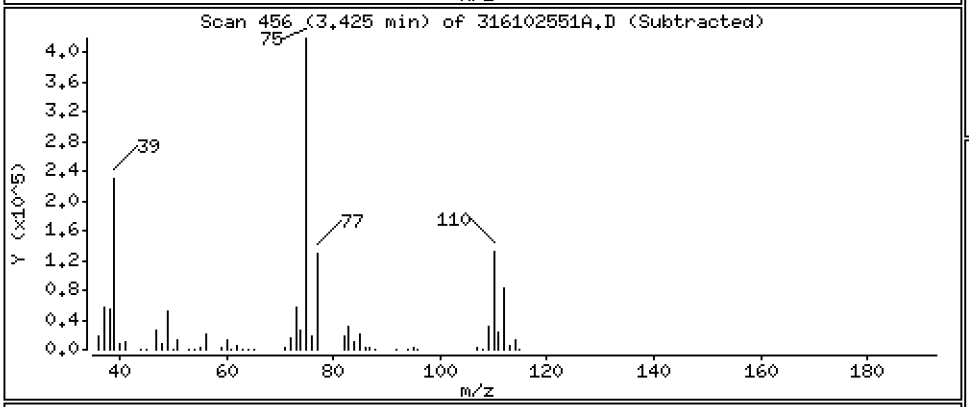
Sample Info: 1800;;1;2;4;;;

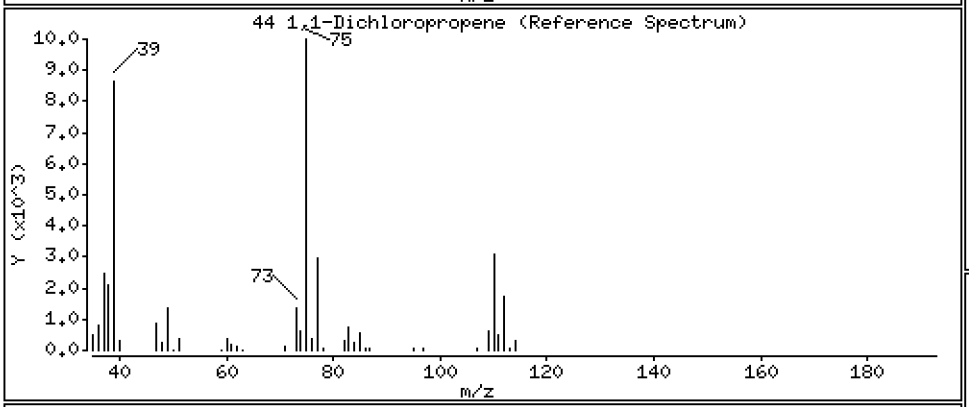
Purge Volume: 5.0 Operator: CJG

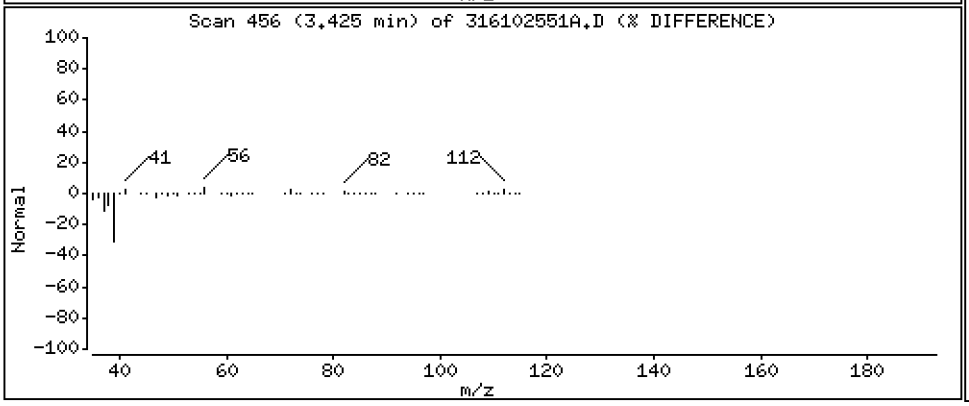
Column phase: DB-VRX Column diameter: 0.25

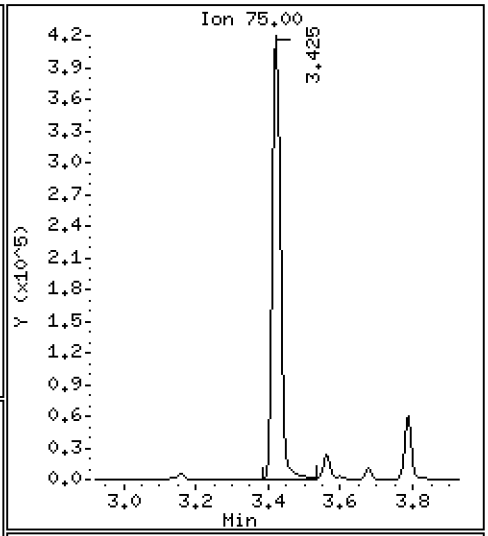
44 1,1-Dichloropropene Concentration: 46.5929 ug/L

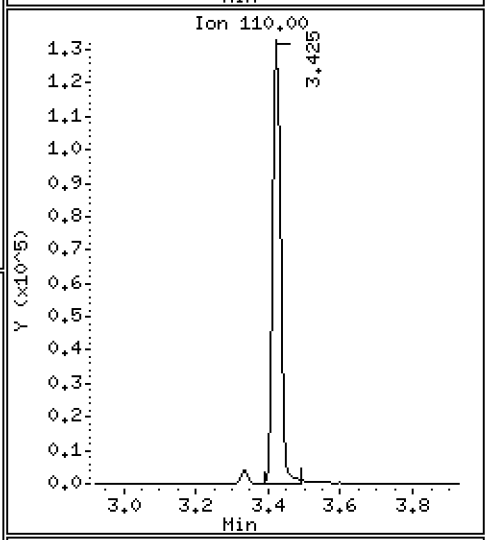


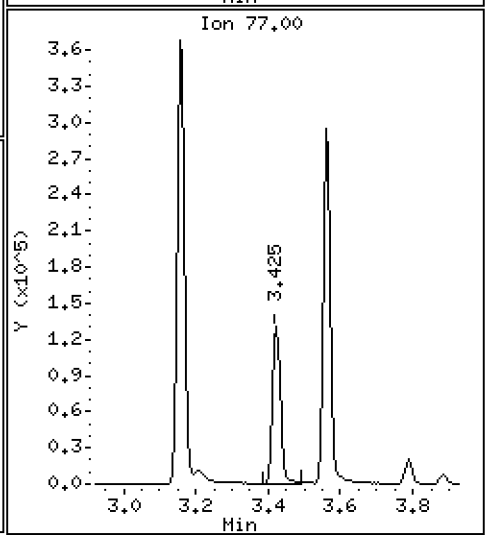












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 52

Date : 25-OCT-2016 21:59

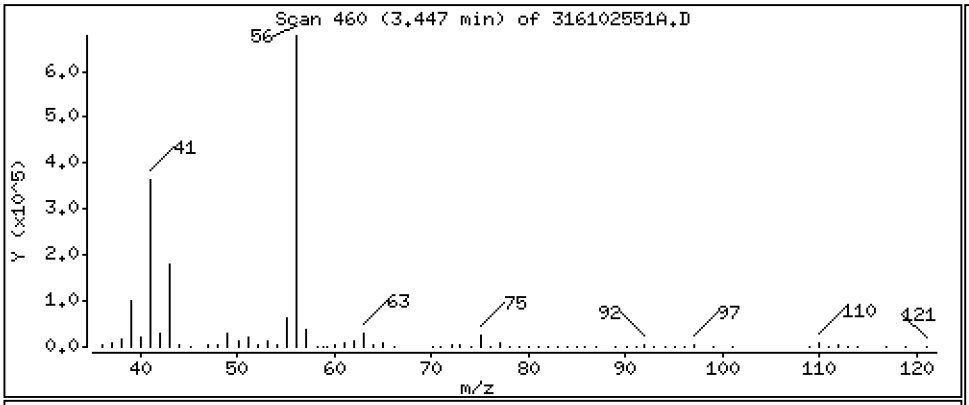
Client ID: Instrument: ms03.i

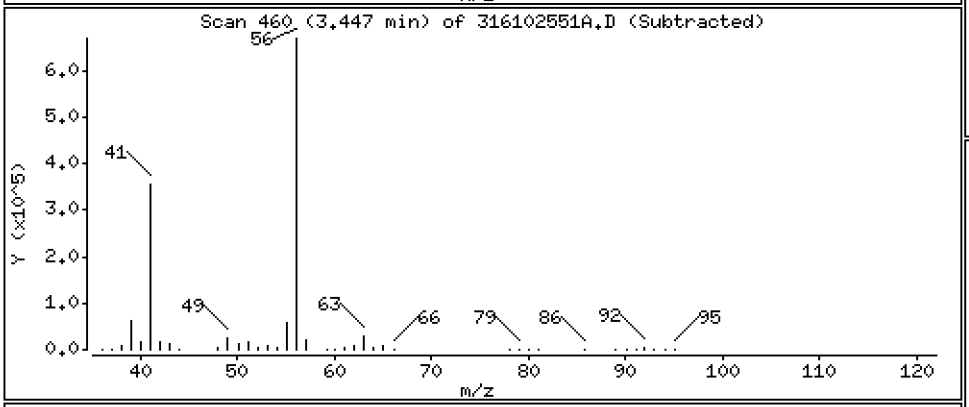
Sample Info: 1800;;1;2;4;;;

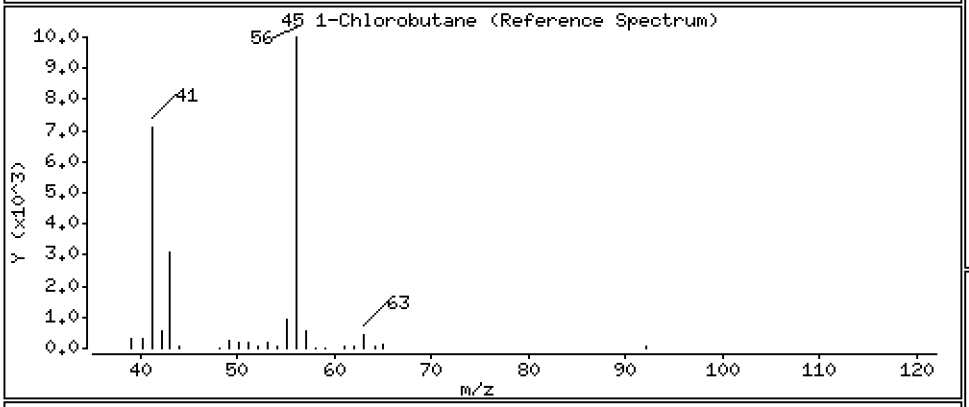
Purge Volume: 5.0 Operator: CJG

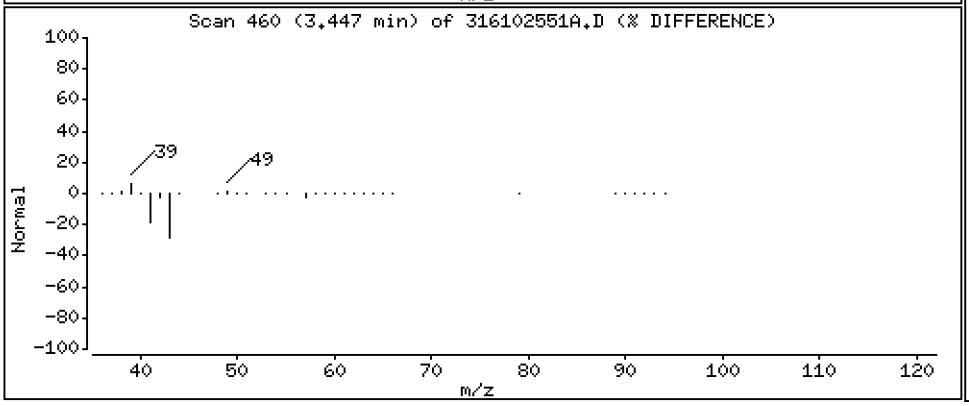
Column phase: DB-VRX Column diameter: 0.25

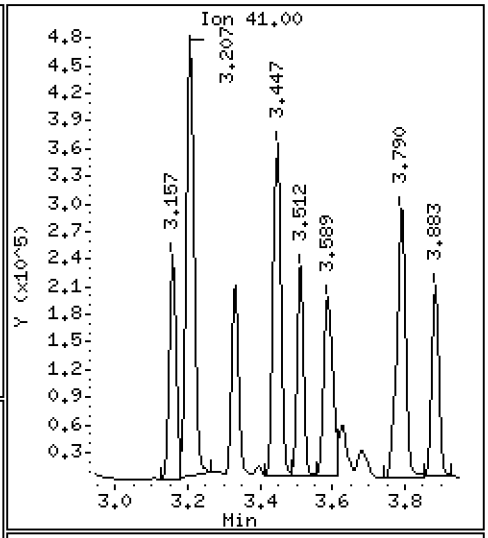
45 1-Chlorobutane Concentration: 50.8462 ug/L

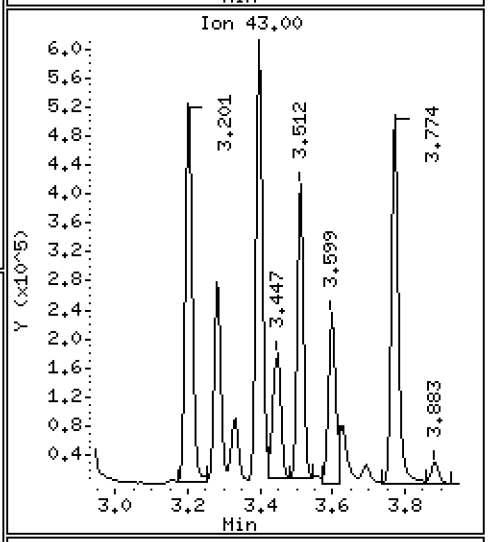


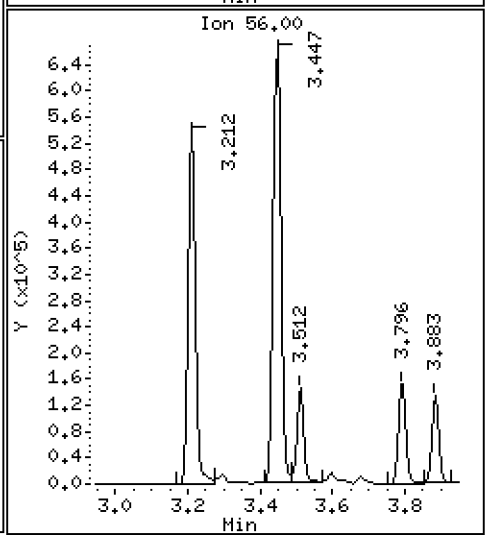












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 53

Date : 25-OCT-2016 21:59

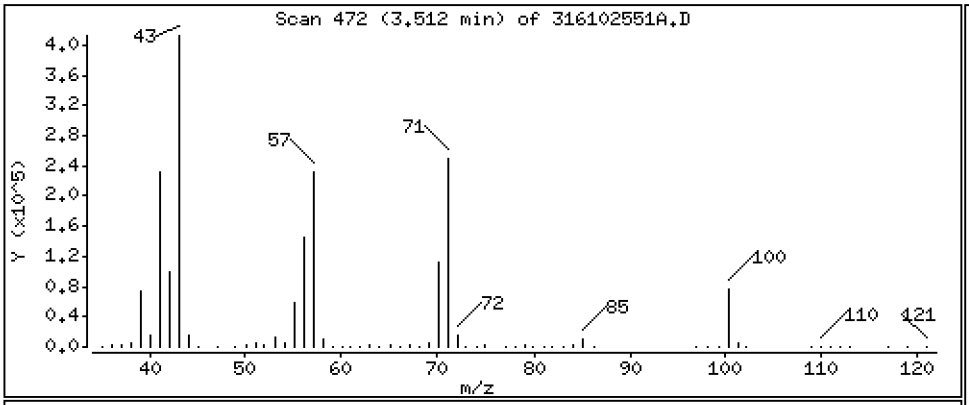
Client ID: Instrument: ms03.i

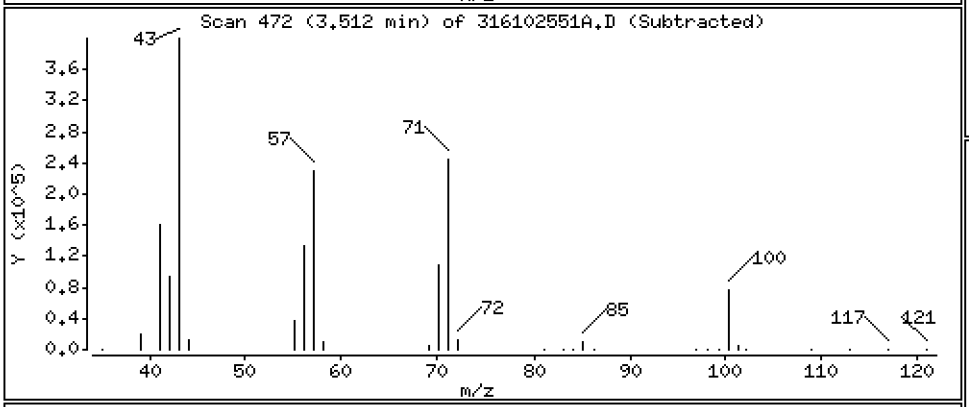
Sample Info: 1800;;1;2;4;;;

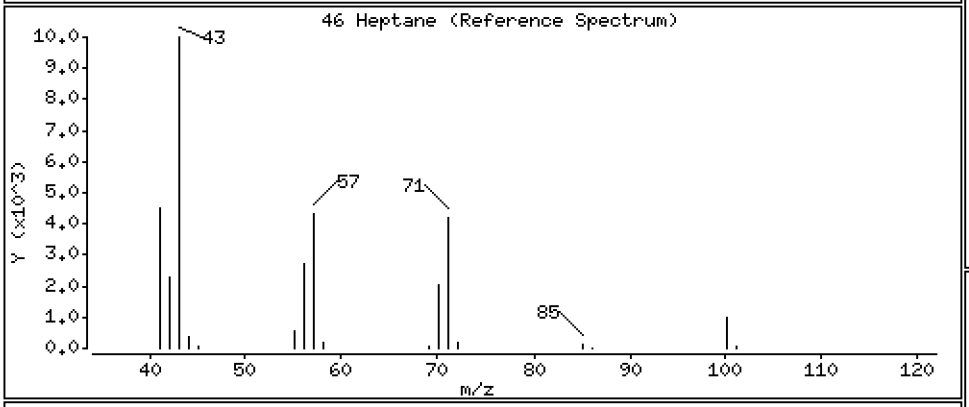
Purge Volume: 5.0 Operator: CJG

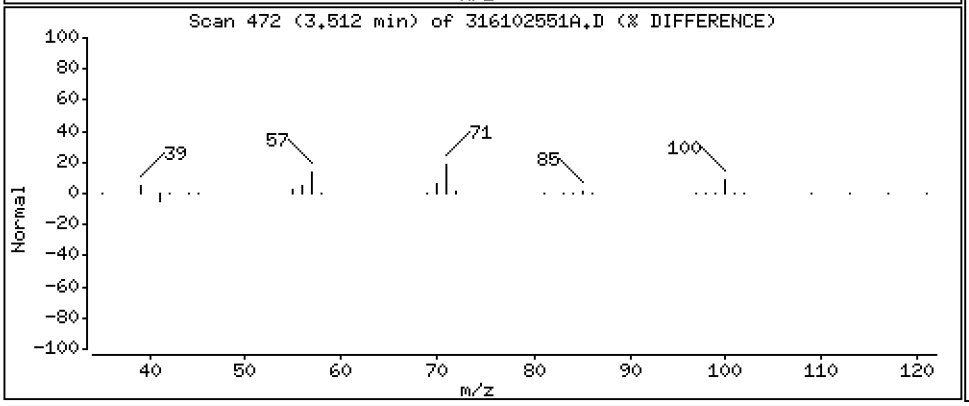
Column phase: DB-VRX Column diameter: 0.25

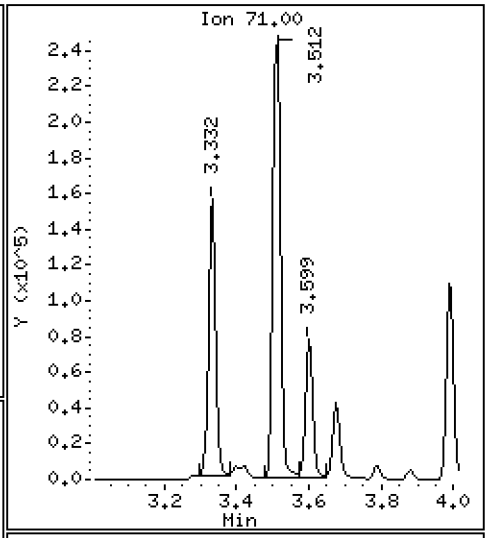
46 Heptane Concentration: 55.4606 ug/L

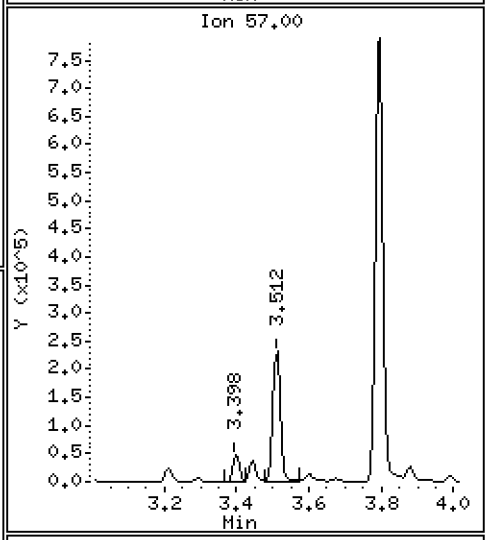


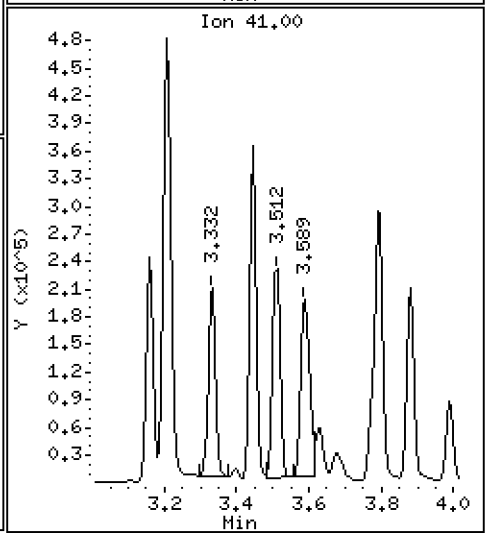












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 54

Date : 25-OCT-2016 21:59

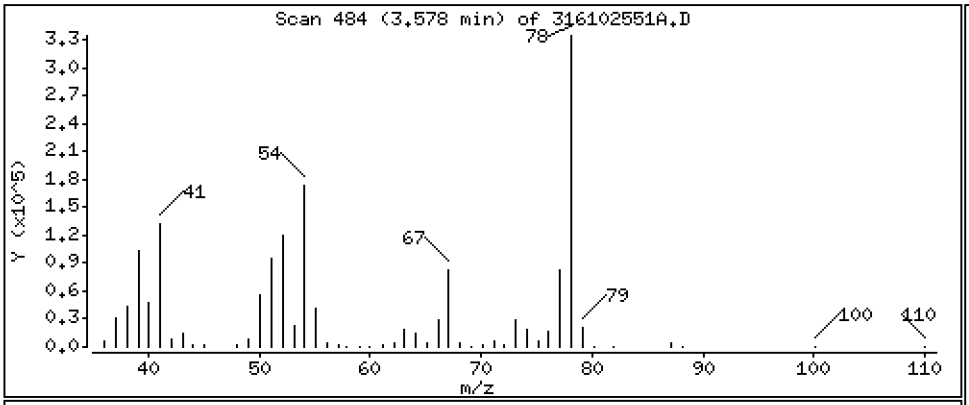
Client ID: Instrument: ms03.i

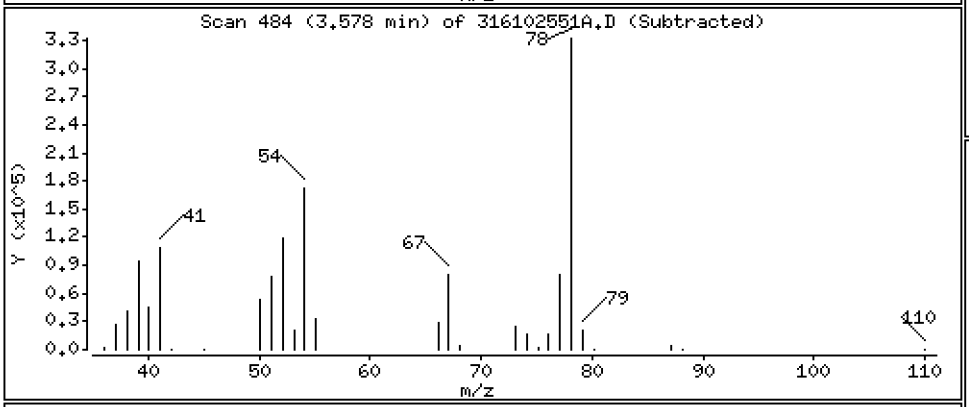
Sample Info: 1800;;1;2;4;;;

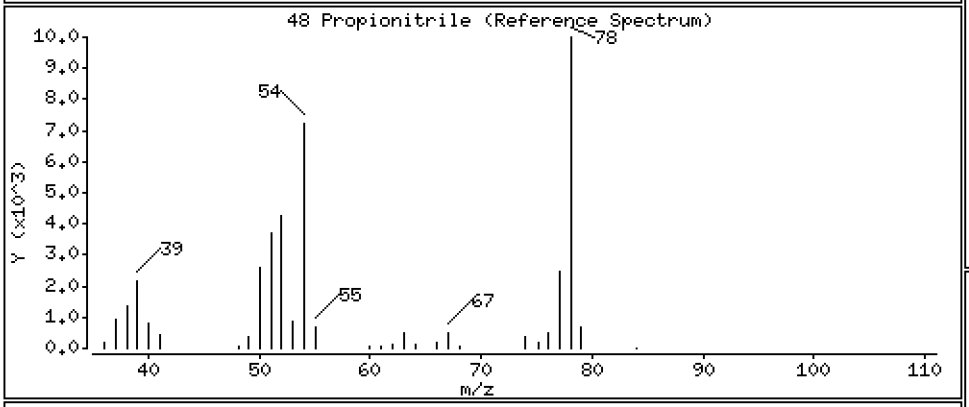
Purge Volume: 5.0 Operator: CJG

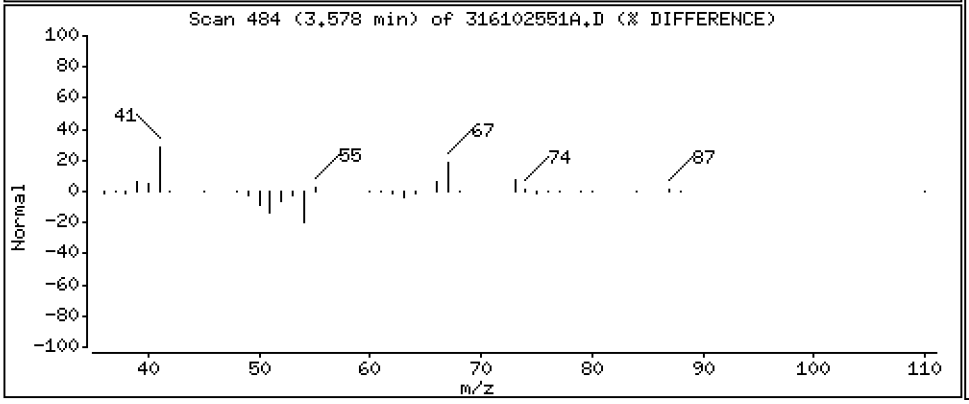
Column phase: DB-VRX Column diameter: 0.25

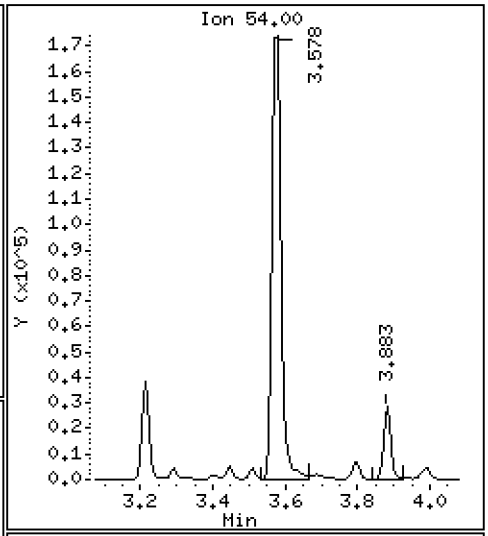
48 Propionitrile Concentration: 233.272 ug/L

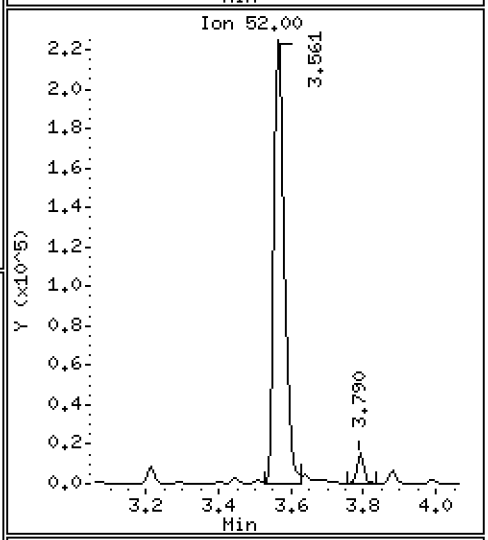


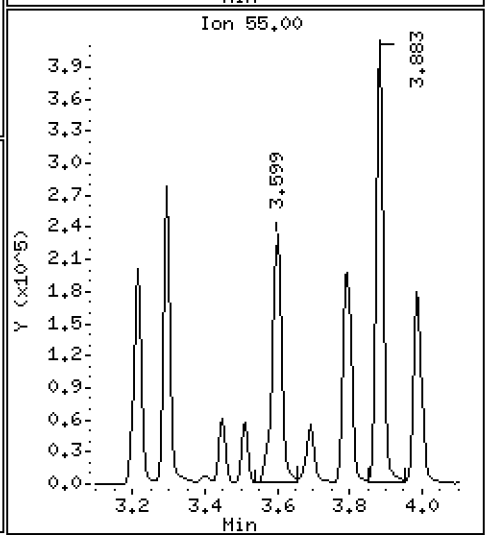












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 55

Date : 25-OCT-2016 21:59

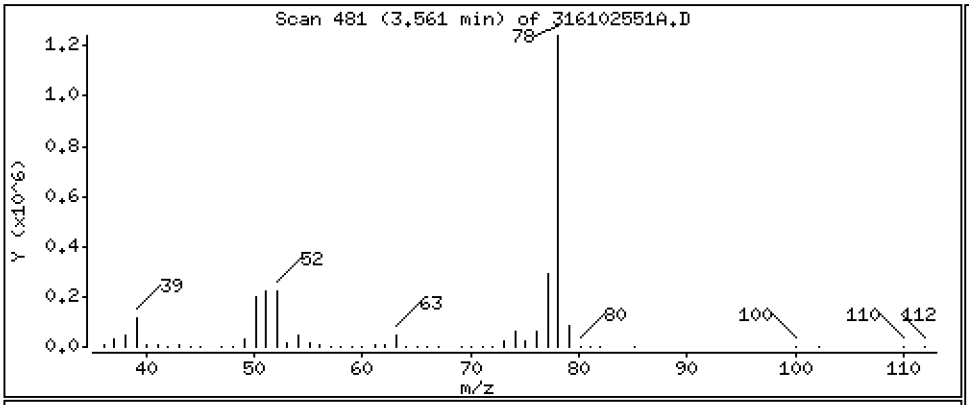
Client ID: Instrument: ms03.i

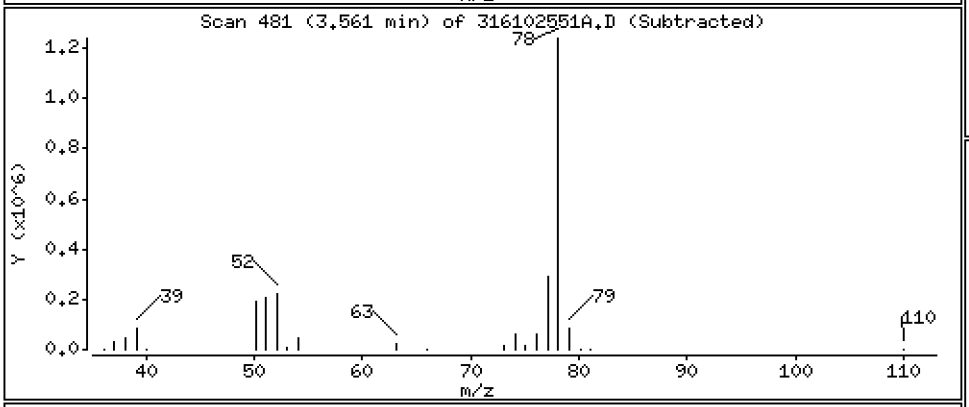
Sample Info: 1800;;1;2;4;;;

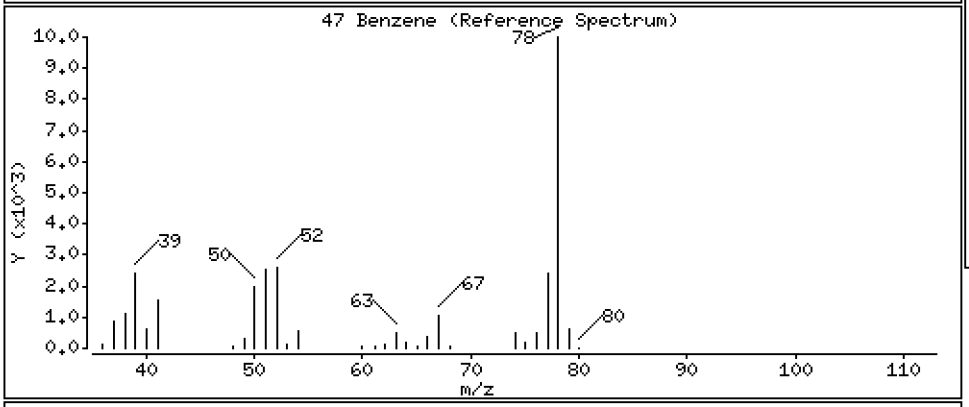
Purge Volume: 5.0 Operator: CJG

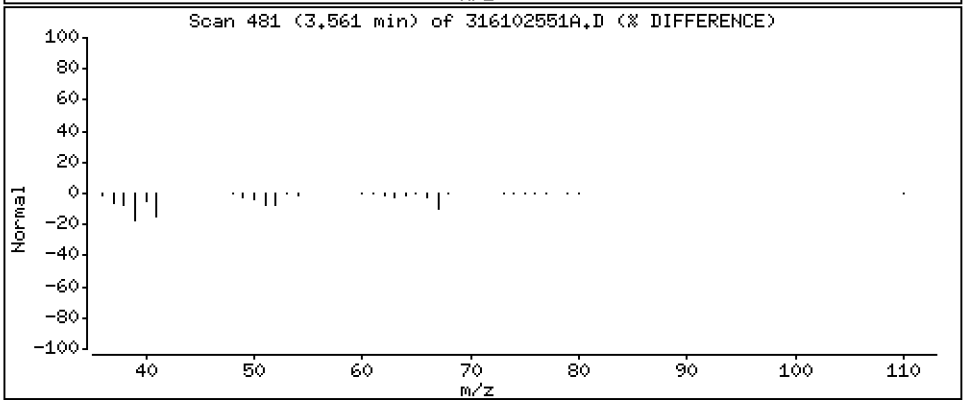
Column phase: DB-VRX Column diameter: 0.25

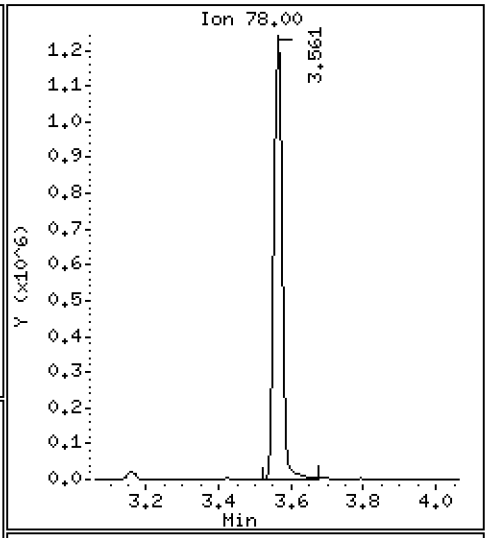
47 Benzene Concentration: 44.9915 ug/L

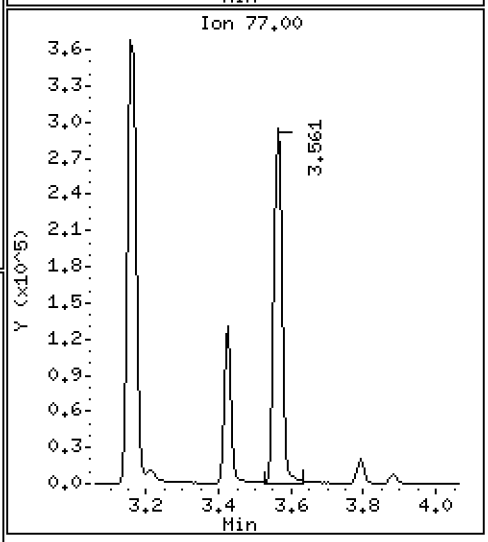












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 56

Date : 25-OCT-2016 21:59

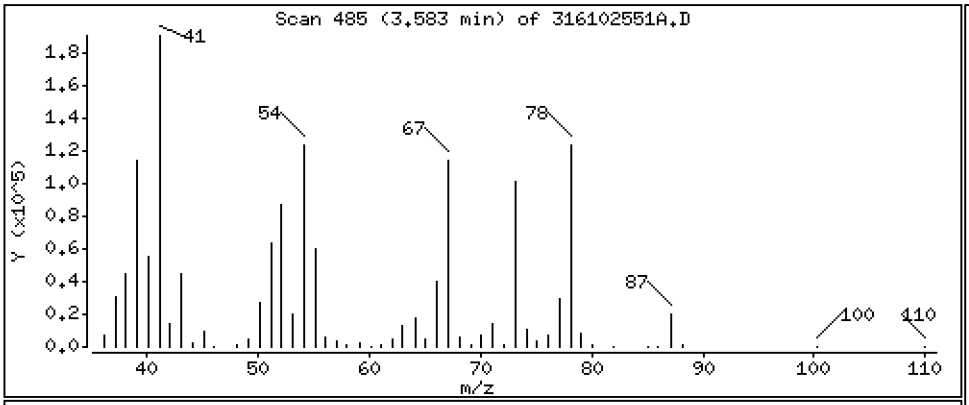
Client ID: Instrument: ms03.i

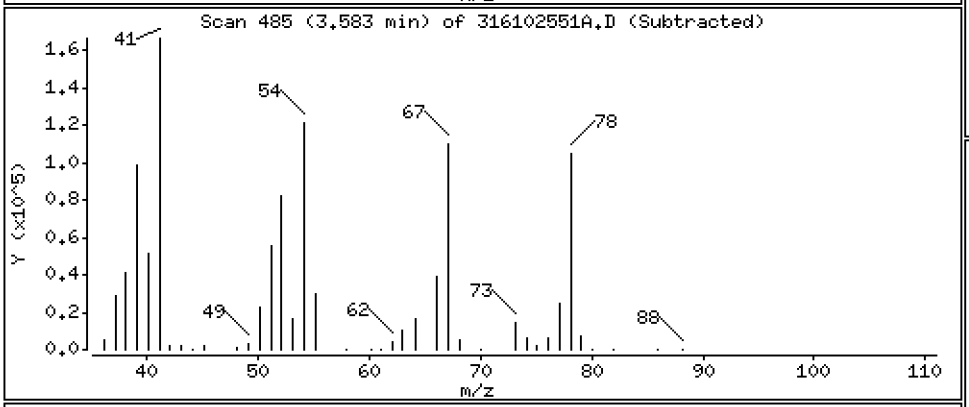
Sample Info: 1800;;1;2;4;;;

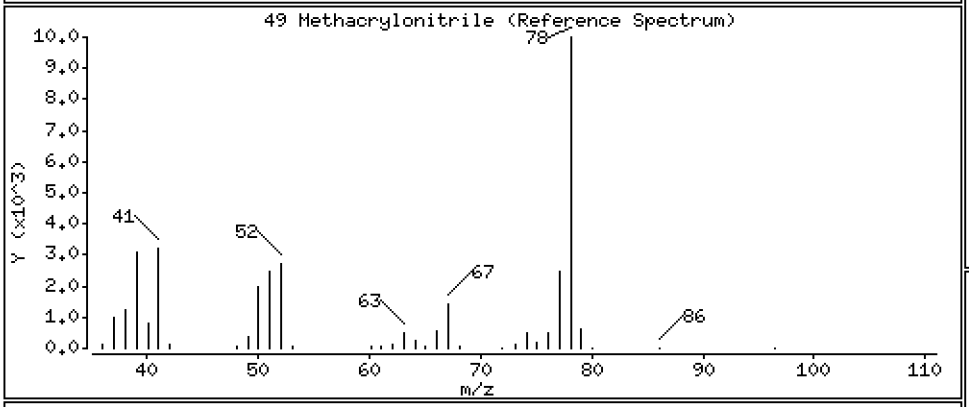
Purge Volume: 5.0 Operator: CJG

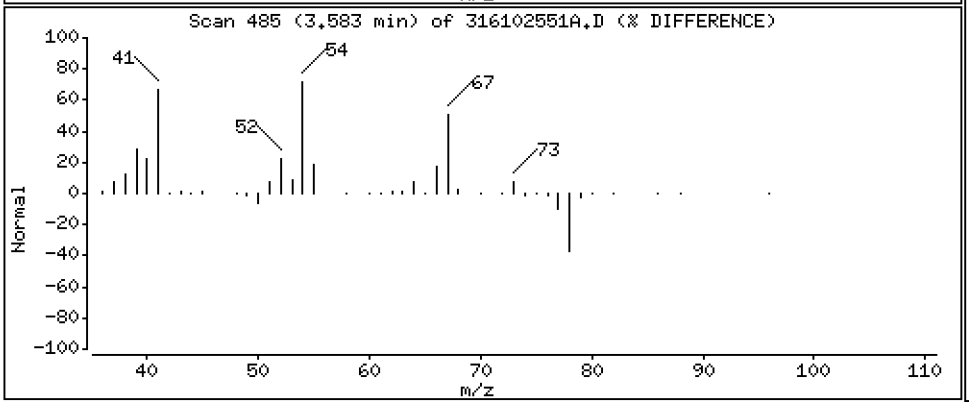
Column phase: DB-VRX Column diameter: 0.25

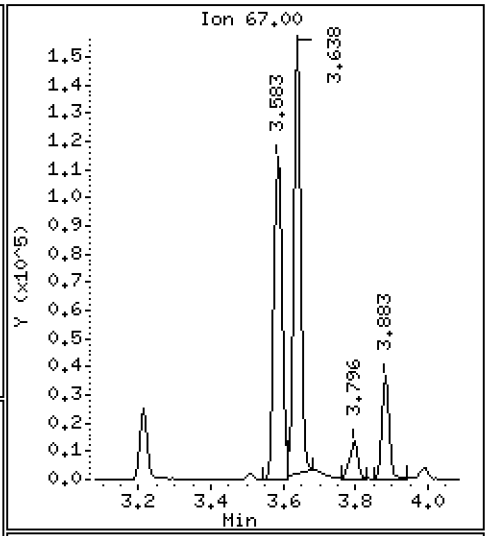
49 Methacrylonitrile Concentration: 45.9140 ug/L

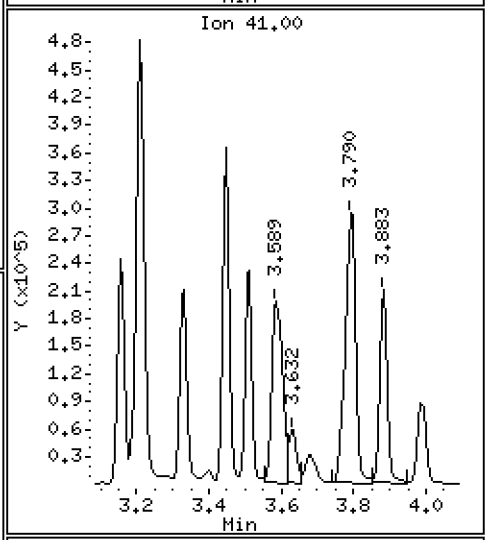


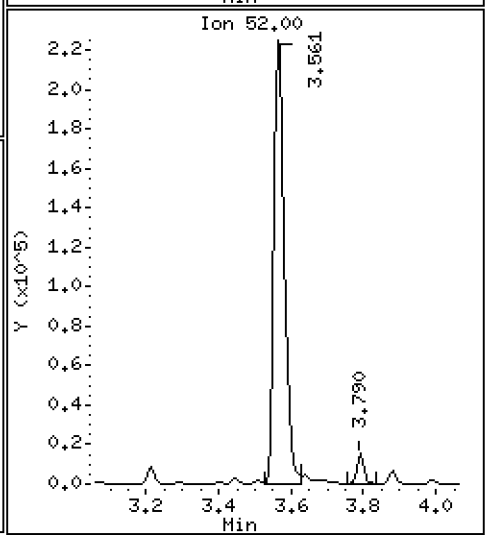












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 57

Date : 25-OCT-2016 21:59

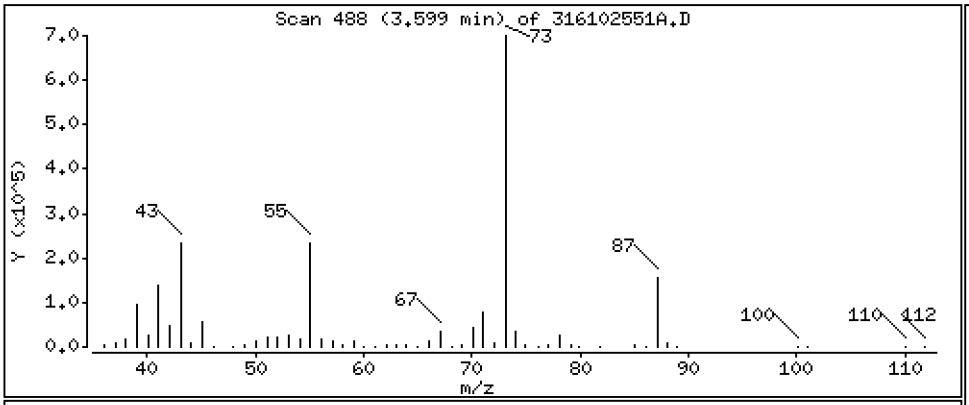
Client ID: Instrument: ms03.i

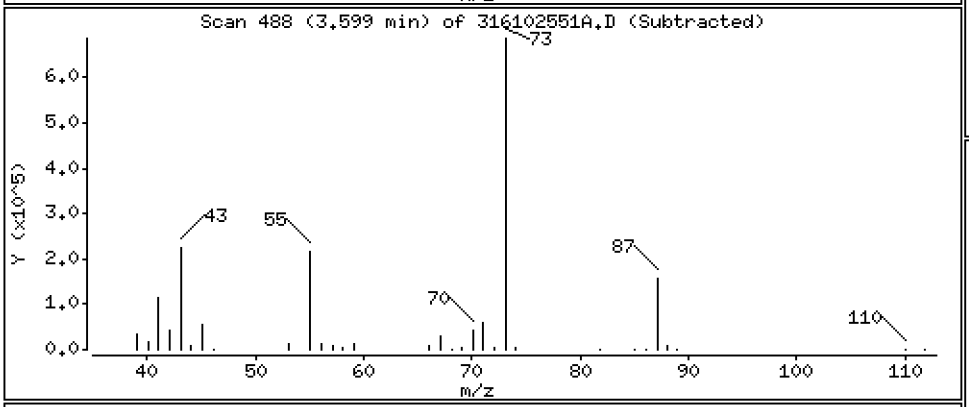
Sample Info: 1800;;1;2;4;;;

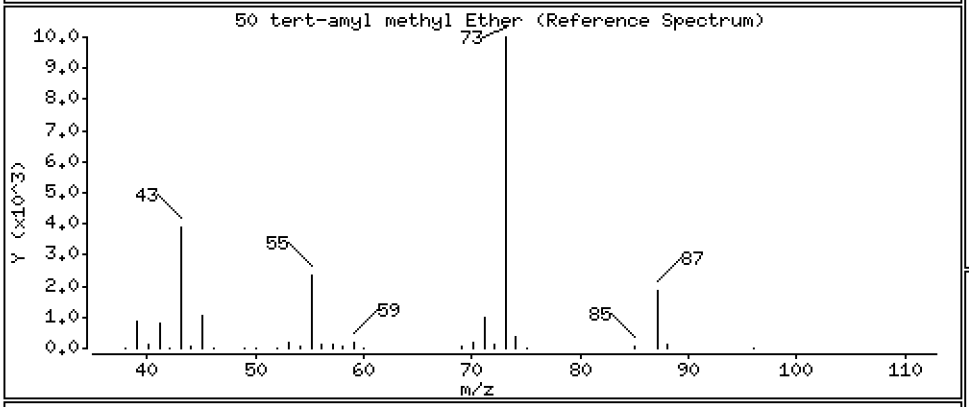
Purge Volume: 5.0 Operator: CJG

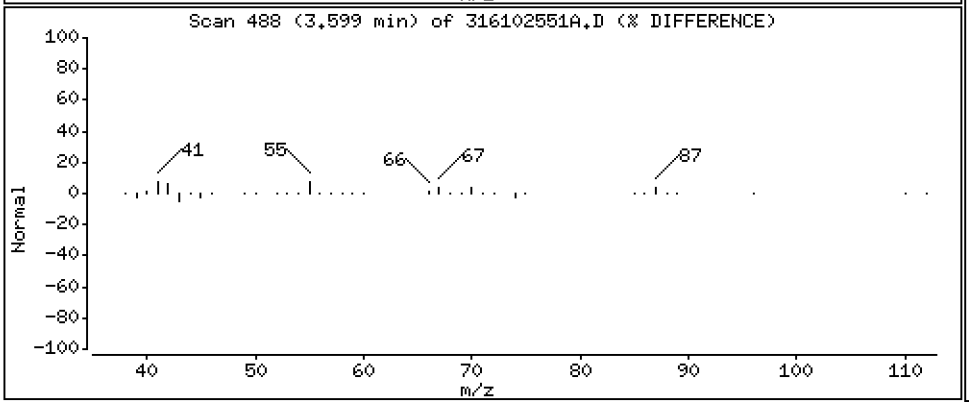
Column phase: DB-VRX Column diameter: 0.25

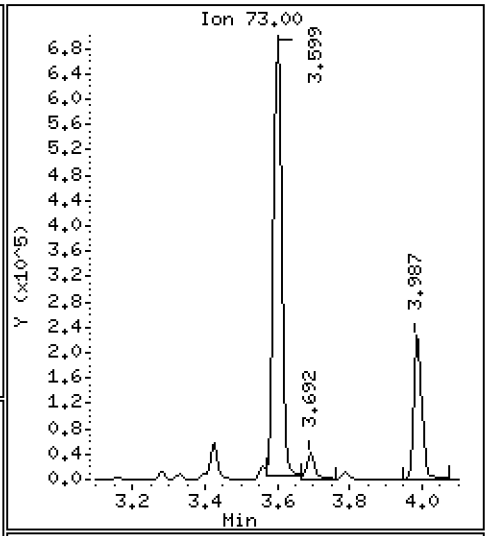
50 tert-amyl methyl Ether Concentration: 47.6926 ug/L

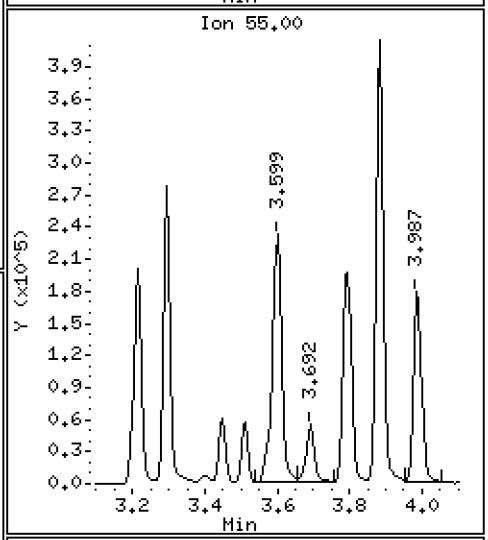


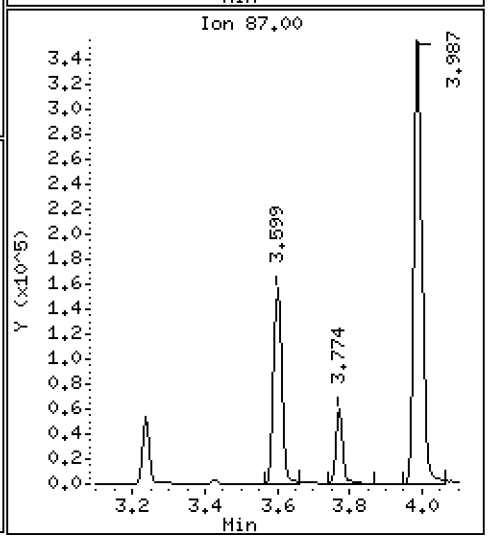












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 58

Date : 25-OCT-2016 21:59

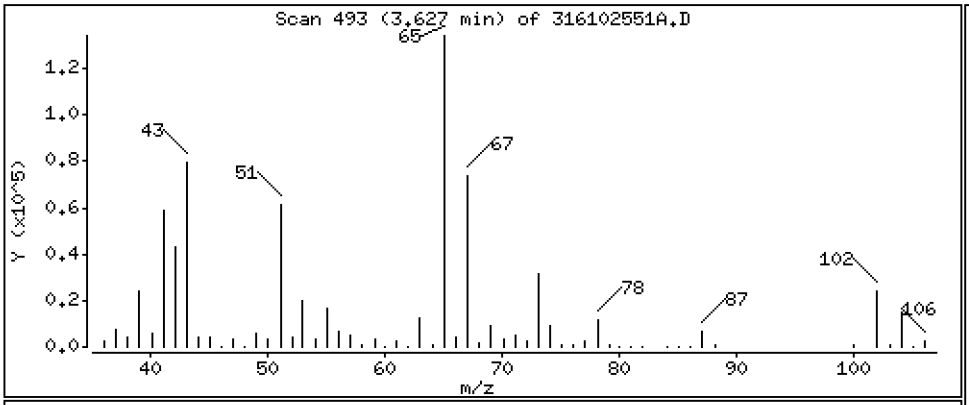
Client ID: Instrument: ms03.i

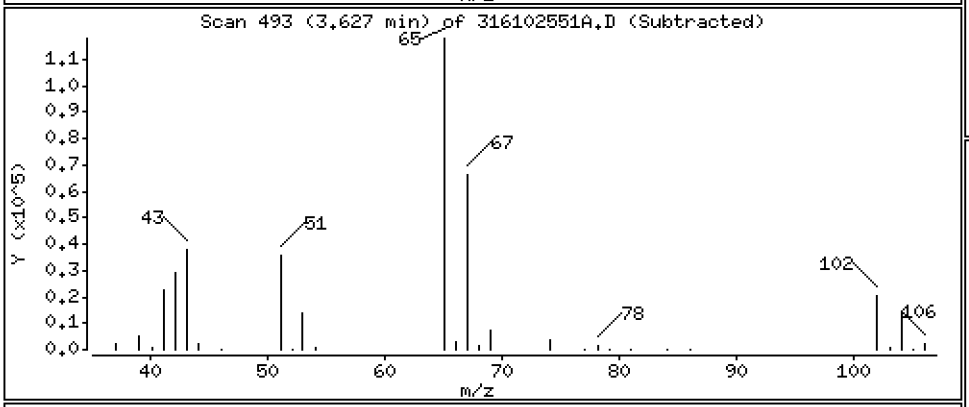
Sample Info: 1800;;1;2;4;;;

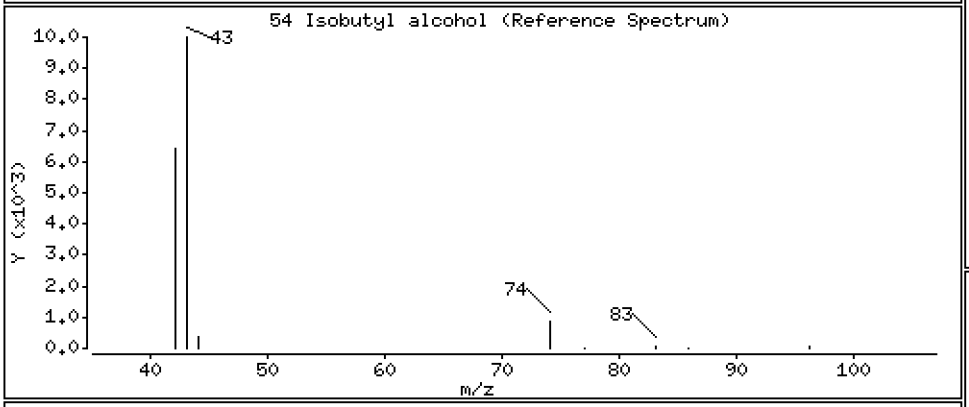
Purge Volume: 5.0 Operator: CJG

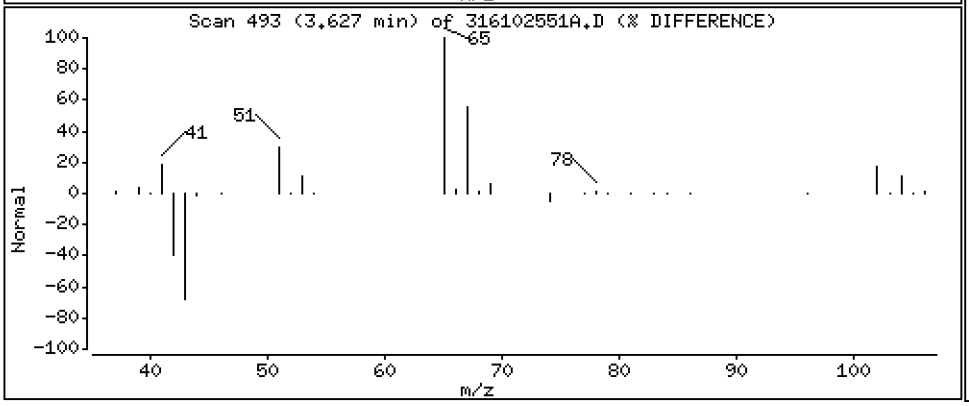
Column phase: DB-VRX Column diameter: 0.25

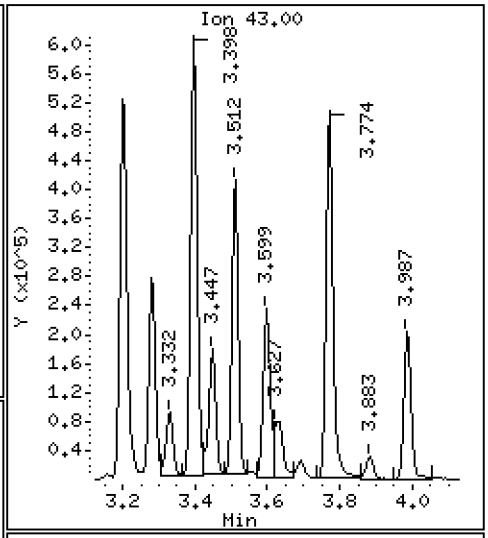
54 Isobutyl alcohol Concentration: 589.542 ug/L

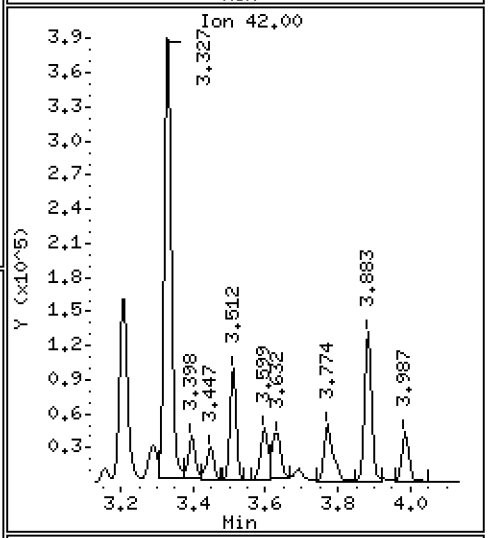


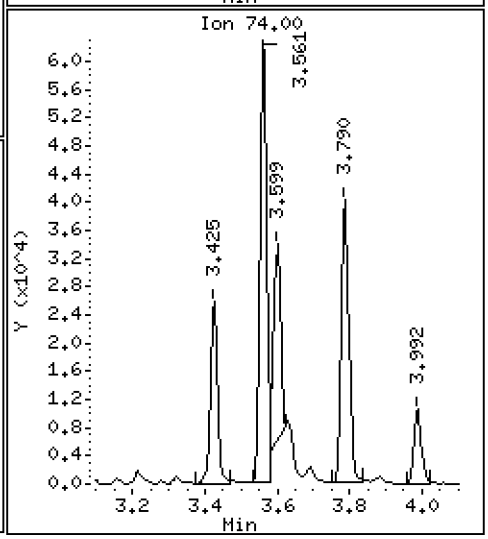












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 59

Date : 25-OCT-2016 21:59

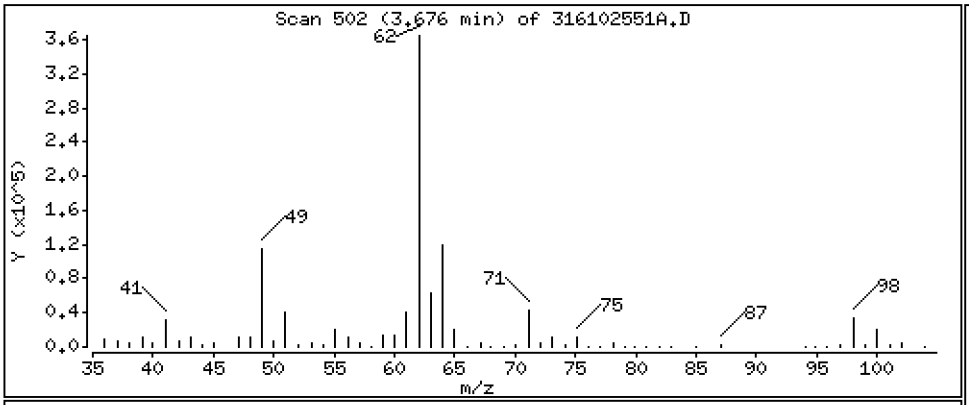
Client ID: Instrument: ms03.i

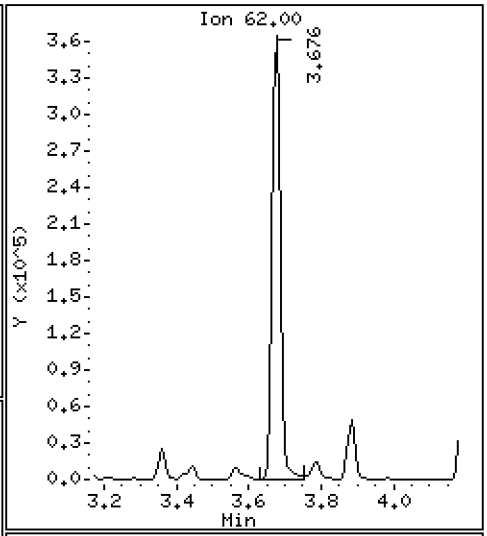
Sample Info: 1800;;1;2;4;;;

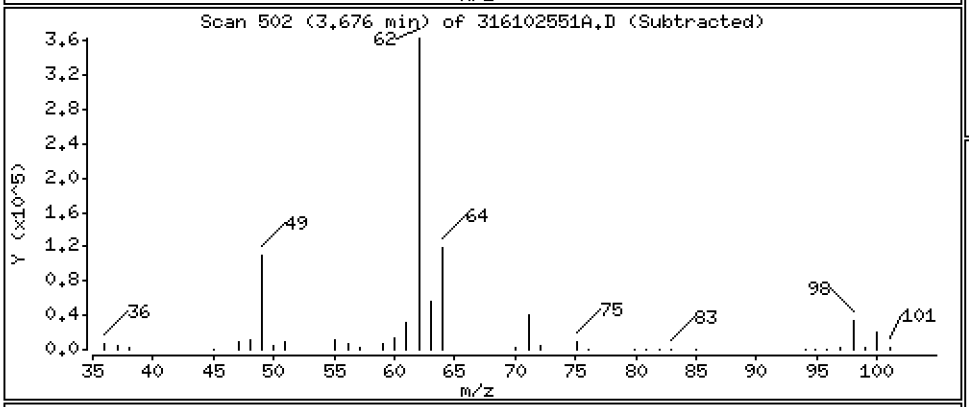
Purge Volume: 5.0 Operator: CJG

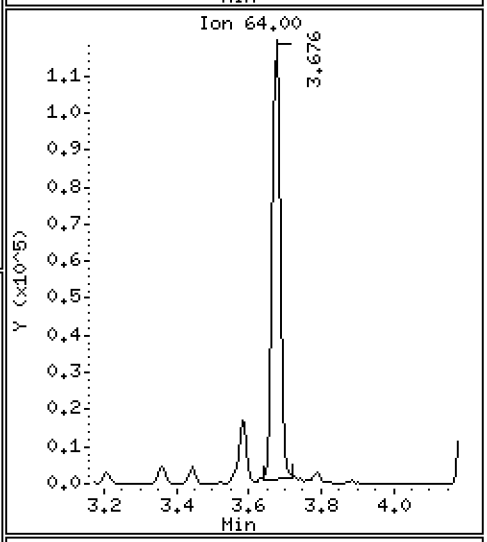
Column phase: DB-VRX Column diameter: 0.25

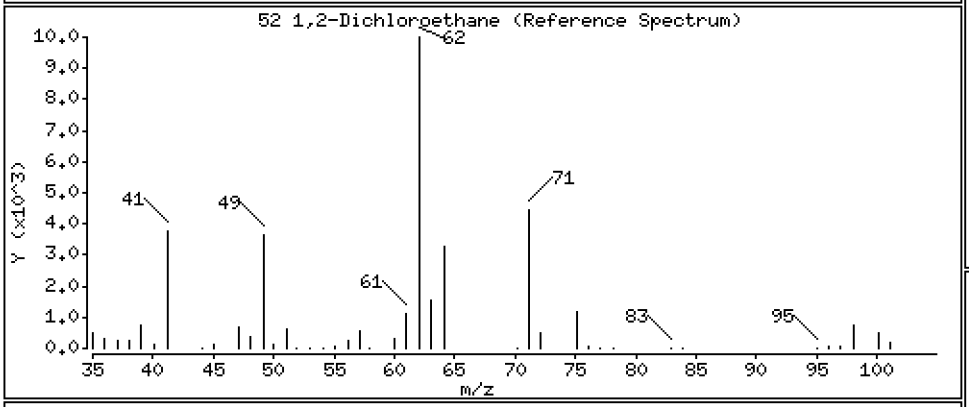
52 1,2-Dichloroethane Concentration: 44.5684 ug/L

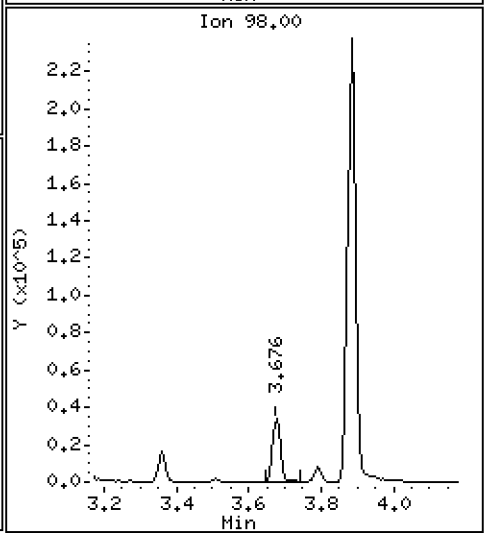


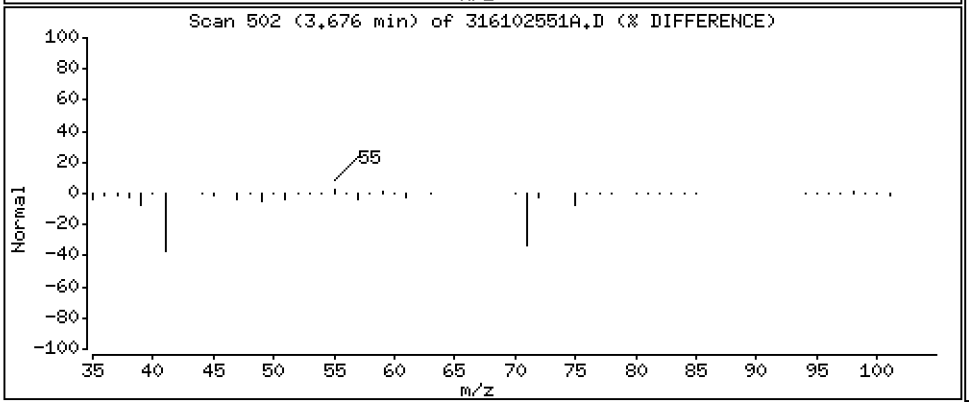












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 60

Date : 25-OCT-2016 21:59

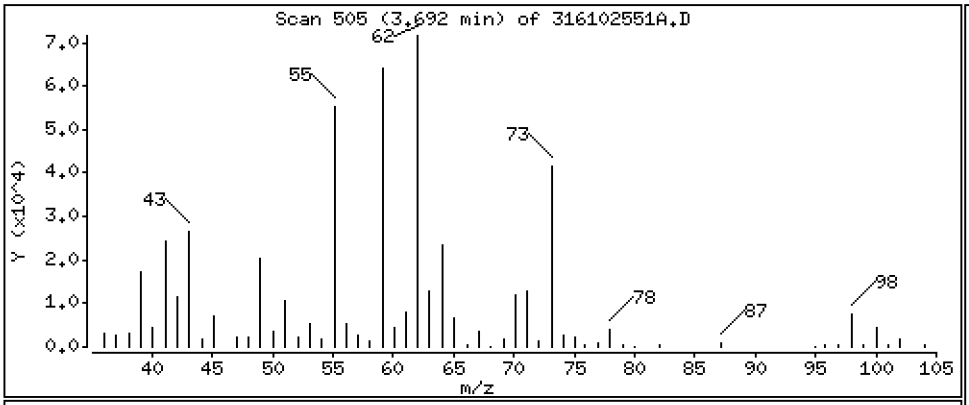
Client ID: Instrument: ms03.i

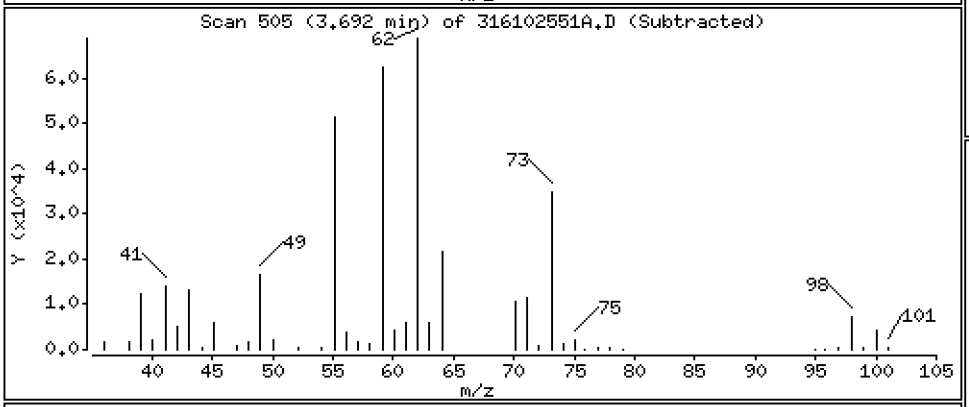
Sample Info: 1800;;1;2;4;;;

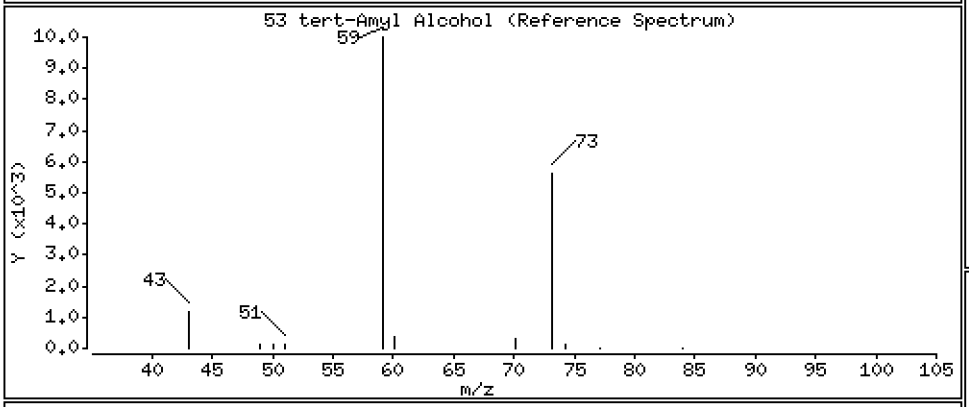
Purge Volume: 5.0 Operator: CJG

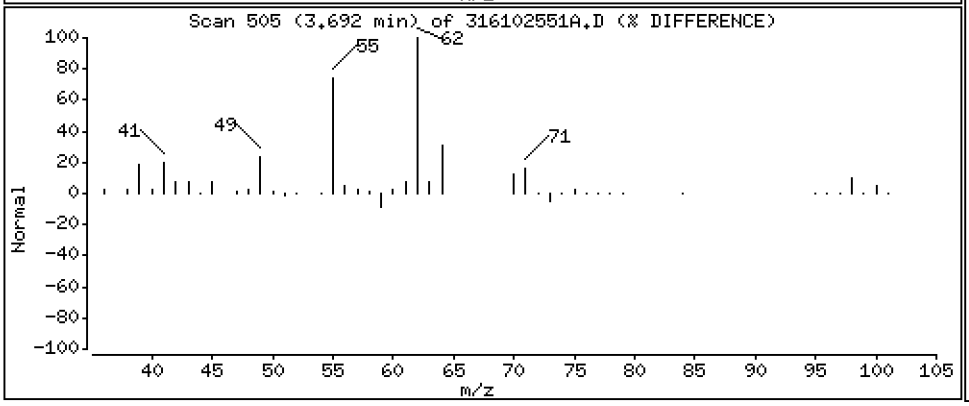
Column phase: DB-VRX Column diameter: 0.25

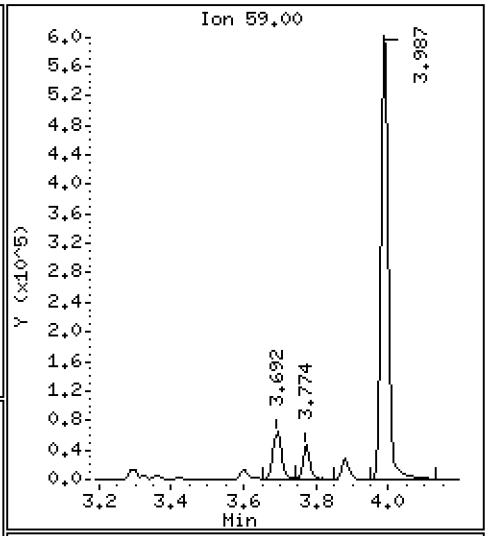
53 tert-Amyl Alcohol Concentration: 239.652 ug/L

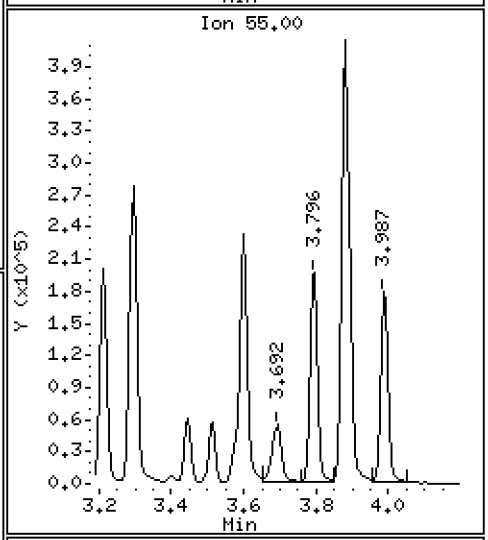


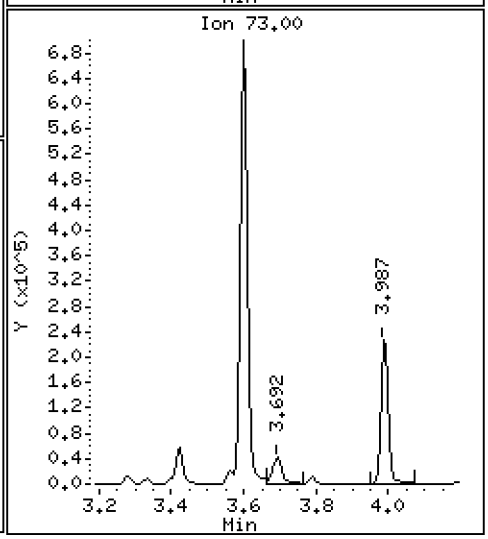












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 61

Date : 25-OCT-2016 21:59

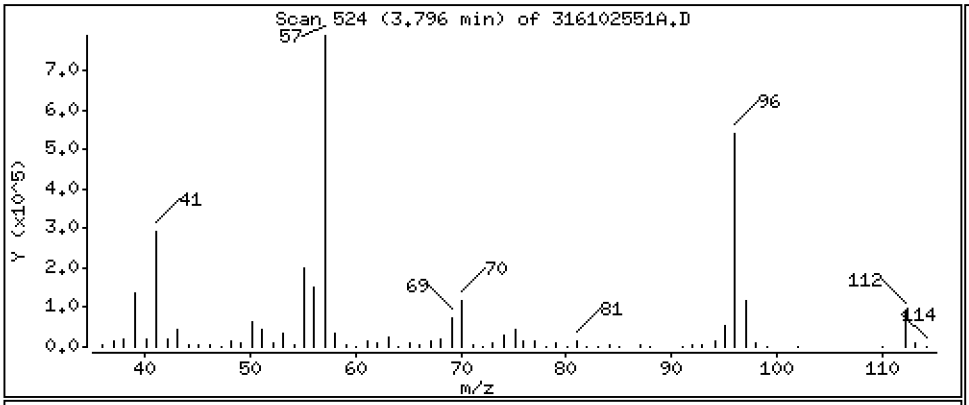
Client ID: Instrument: ms03.i

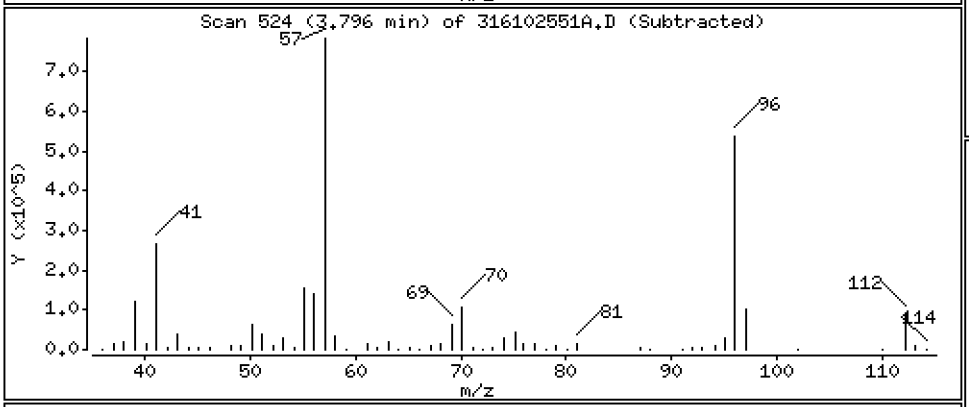
Sample Info: 1800;;1;2;4;;;

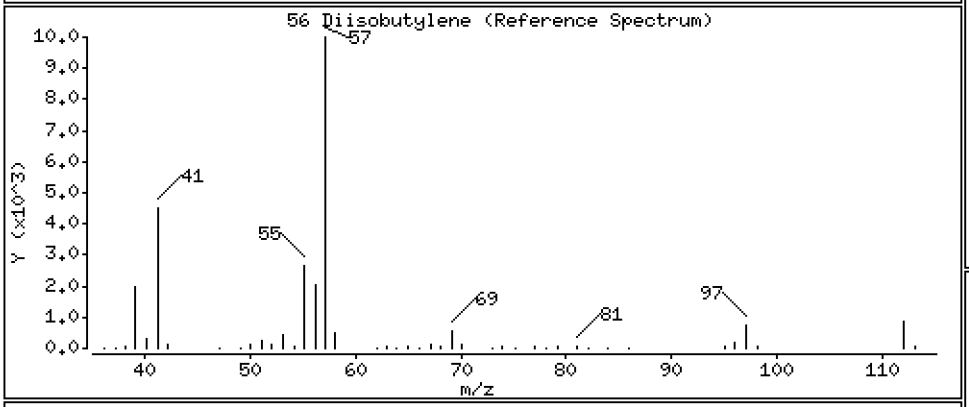
Purge Volume: 5.0 Operator: CJG

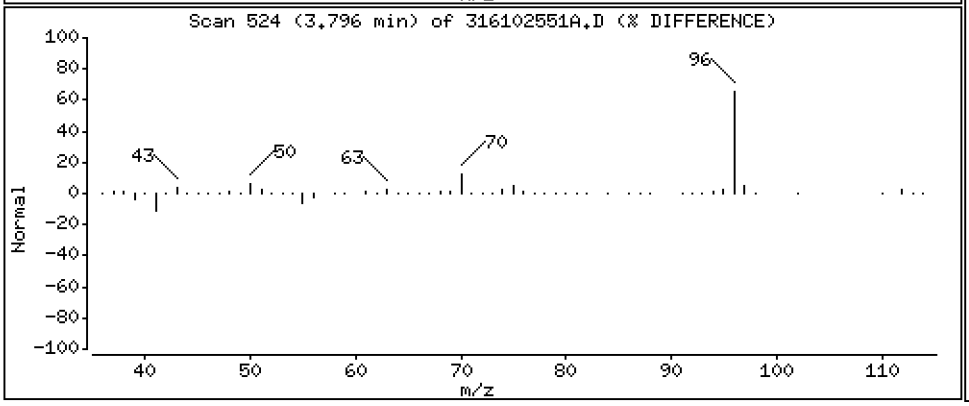
Column phase: DB-VRX Column diameter: 0.25

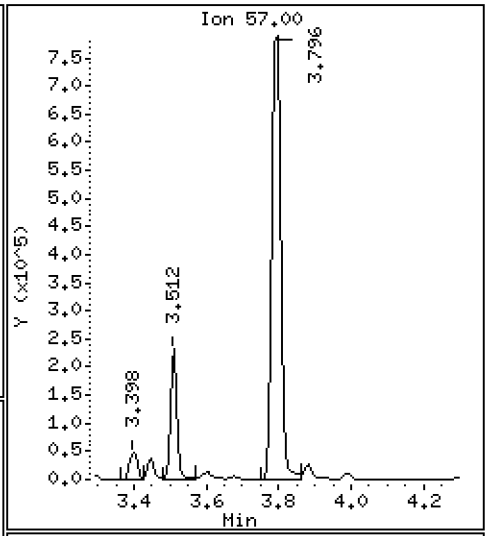
56 Diisobutylene Concentration: 54.9346 ug/L

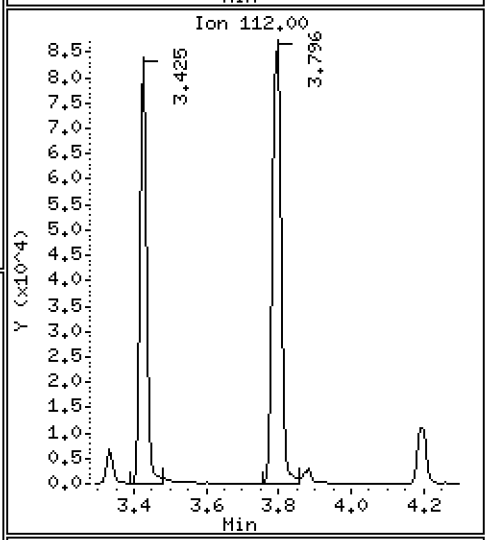


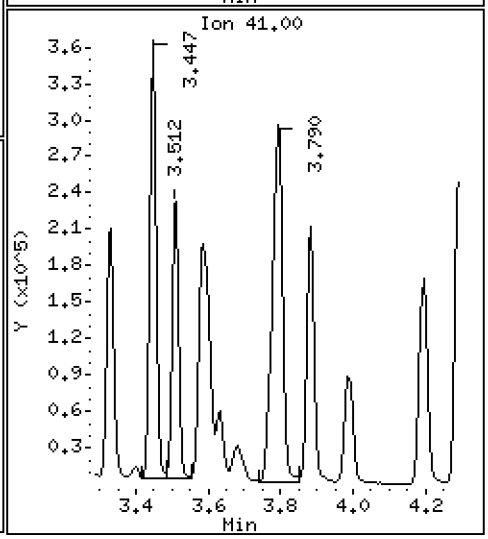












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 62

Date : 25-OCT-2016 21:59

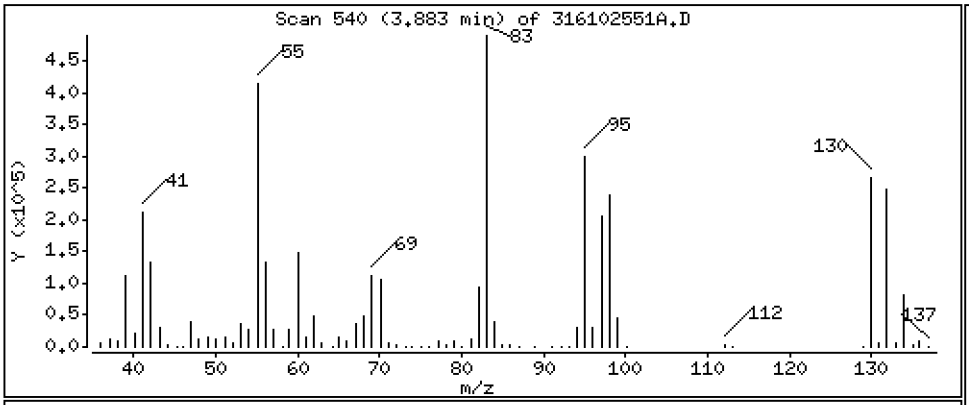
Client ID: Instrument: ms03.i

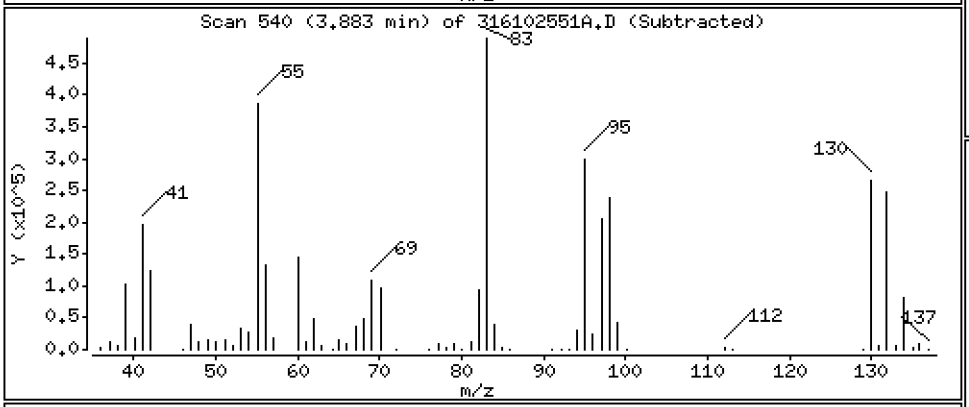
Sample Info: 1800;;1;2;4;;;

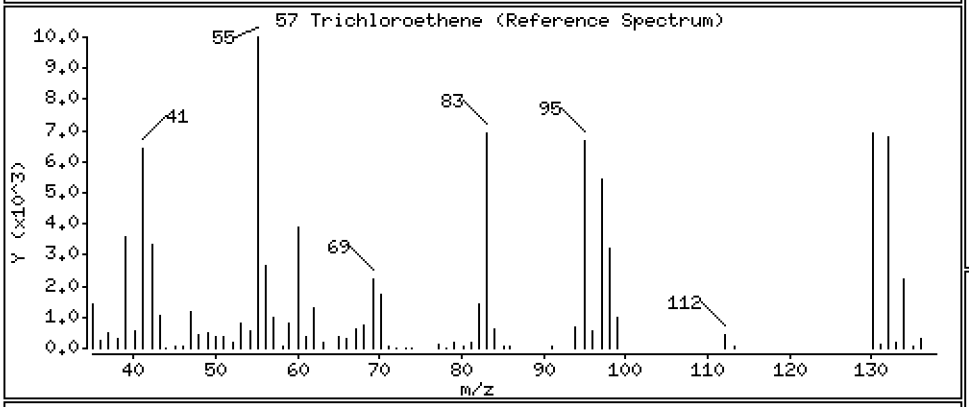
Purge Volume: 5.0 Operator: CJG

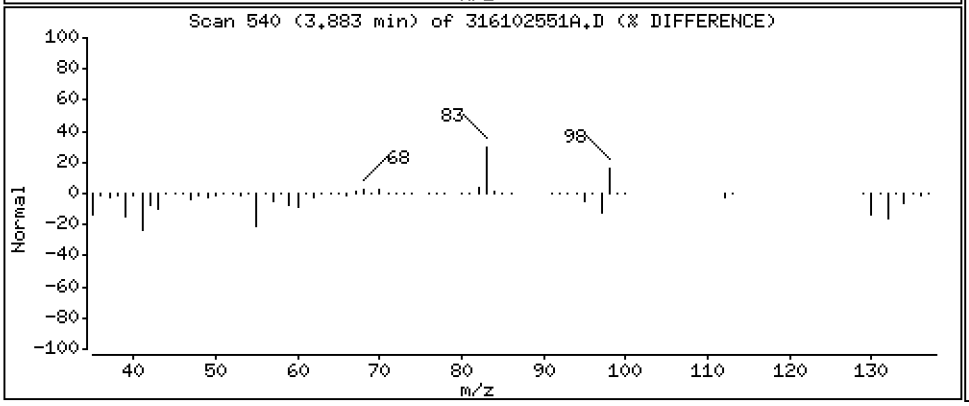
Column phase: DB-VRX Column diameter: 0.25

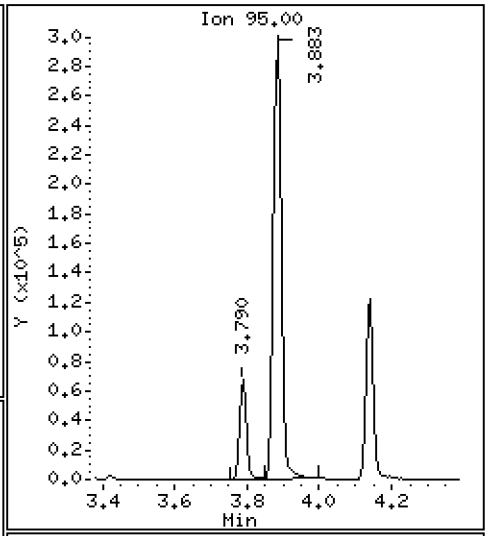
57 Trichloroethene Concentration: 43.7839 ug/L

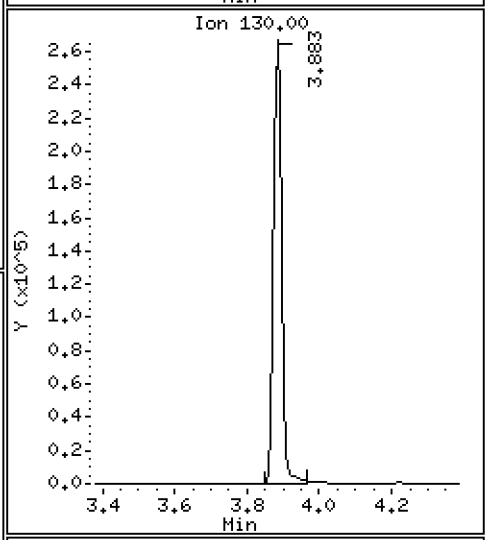


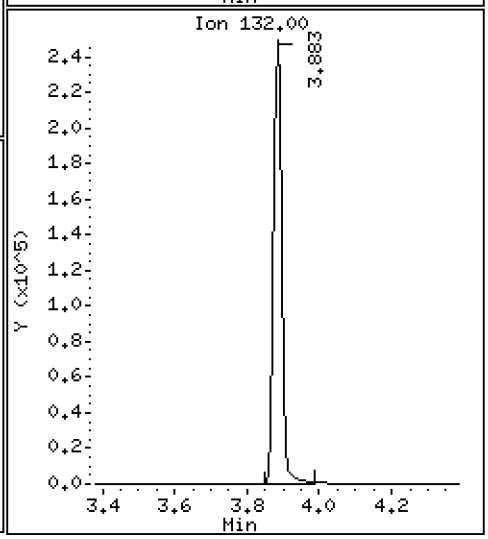












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 63

Date : 25-OCT-2016 21:59

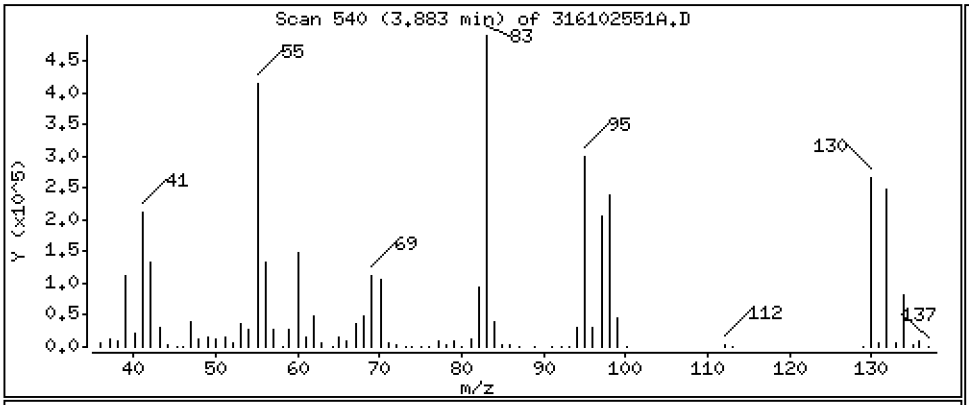
Client ID: Instrument: ms03.i

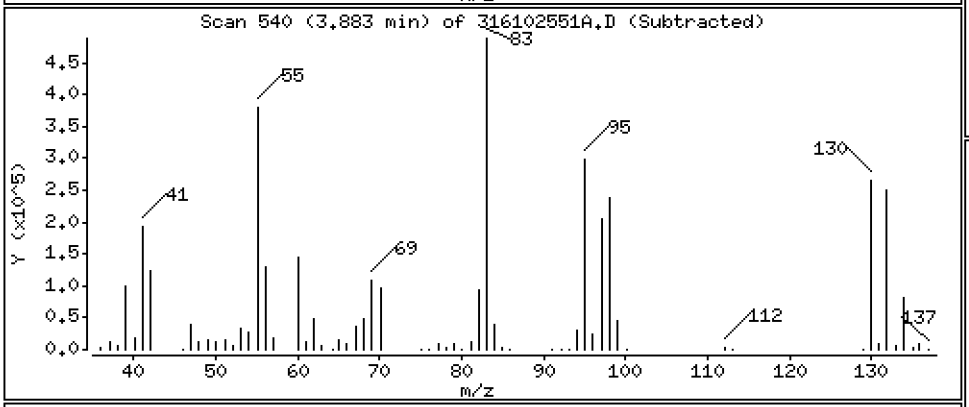
Sample Info: 1800;;1;2;4;;;

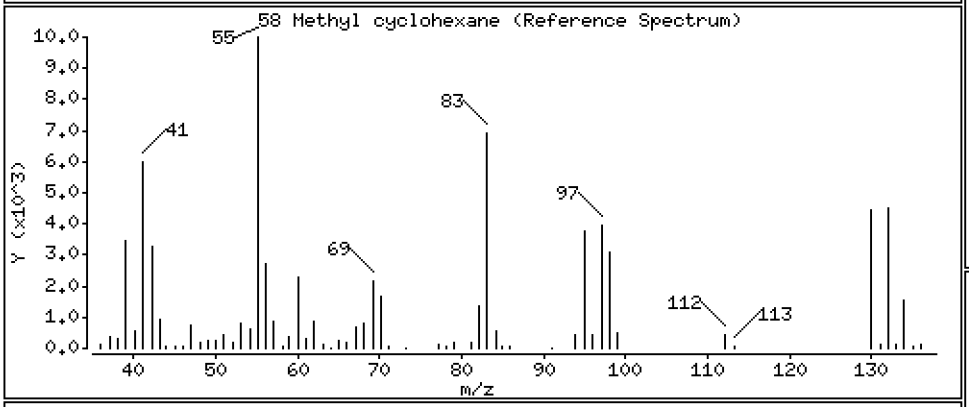
Purge Volume: 5.0 Operator: CJG

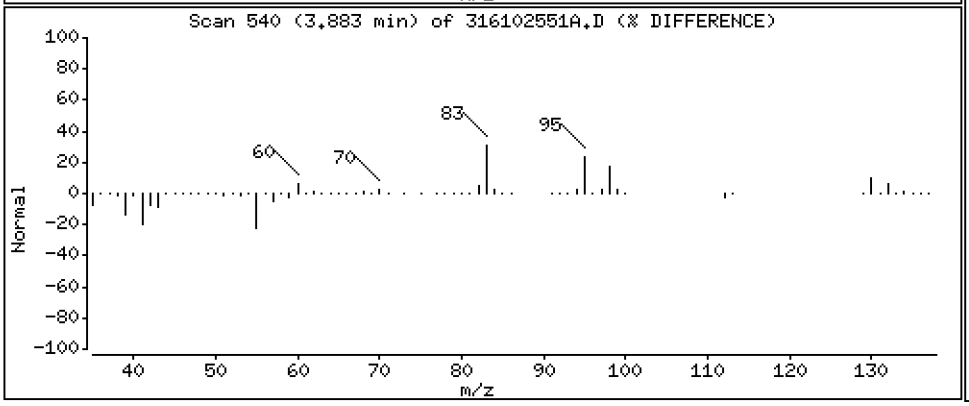
Column phase: DB-VRX Column diameter: 0.25

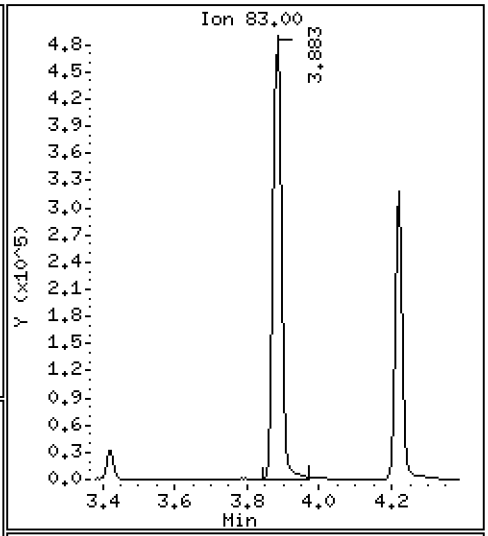
58 Methyl cyclohexane Concentration: 47.3005 ug/L

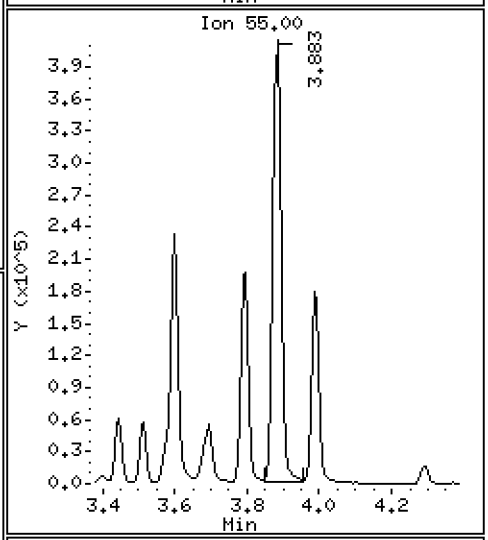


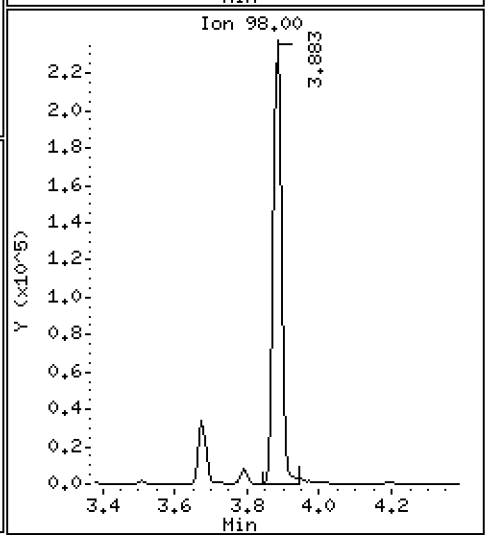












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 64

Date : 25-OCT-2016 21:59

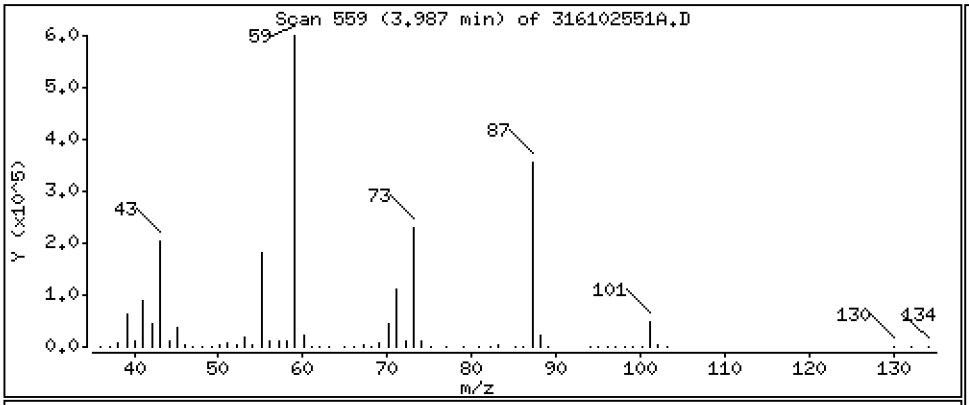
Client ID: Instrument: ms03.i

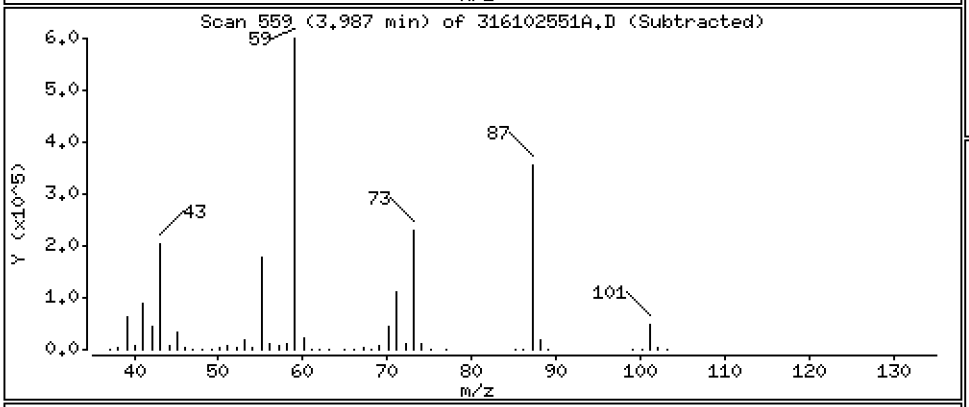
Sample Info: 1800;;1;2;4;;;

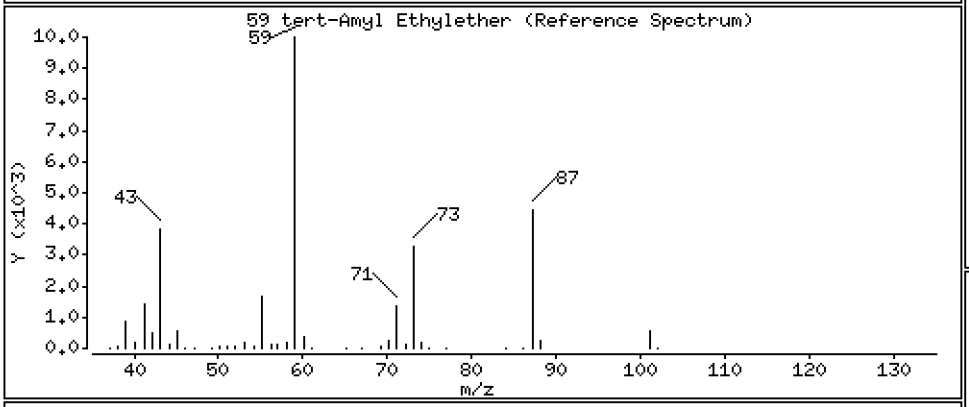
Purge Volume: 5.0 Operator: CJG

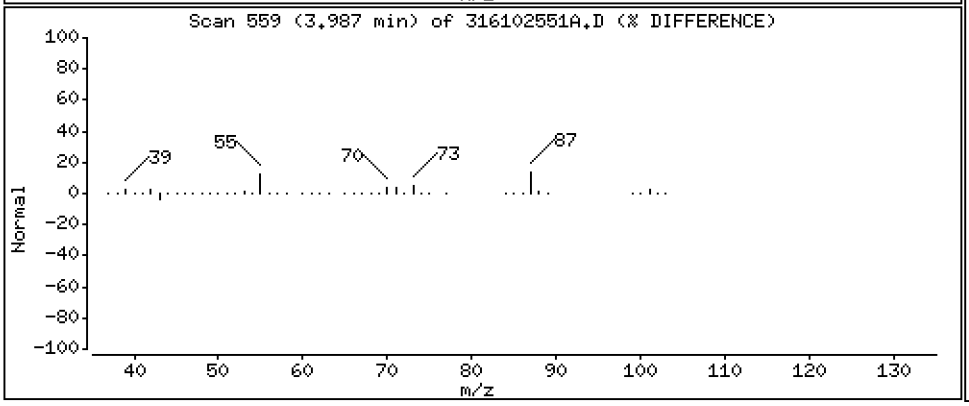
Column phase: DB-VRX Column diameter: 0.25

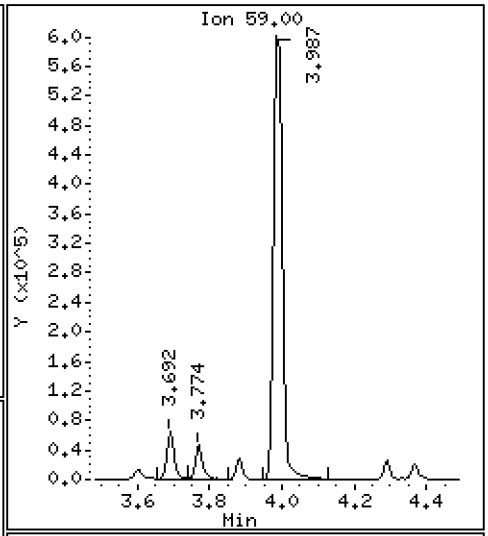
59 tert-Amyl Ethylether Concentration: 49.7354 ug/L

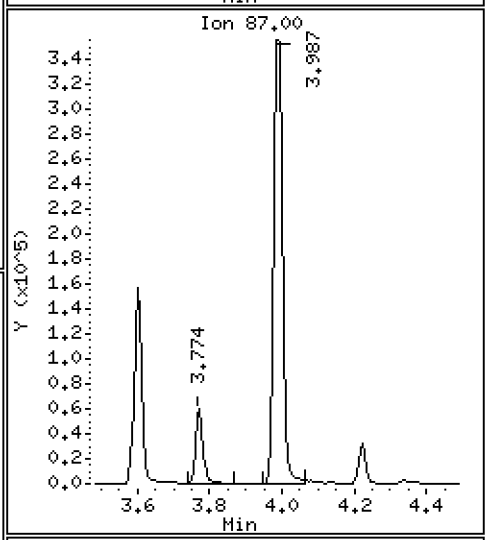


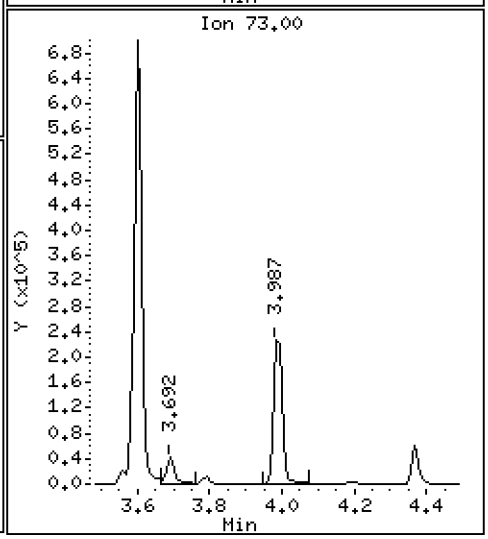












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 65

Date : 25-OCT-2016 21:59

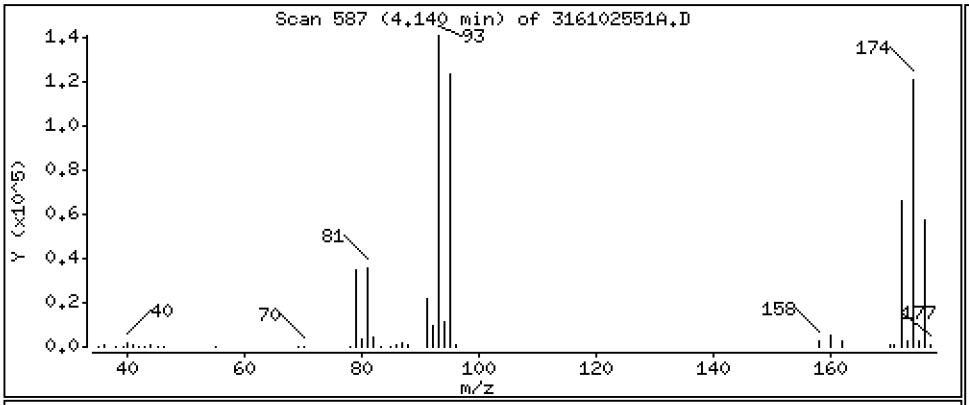
Client ID: Instrument: ms03.i

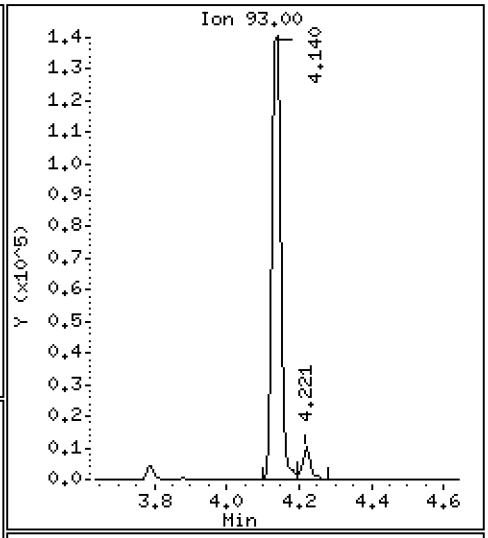
Sample Info: 1800;;1;2;4;;;

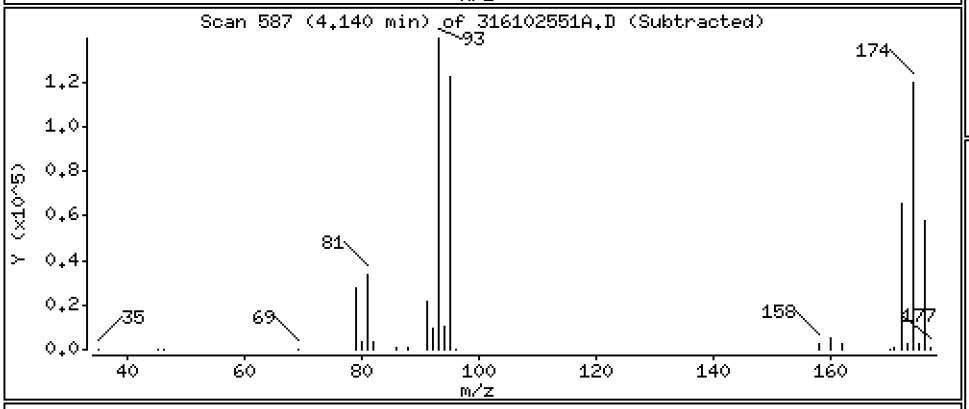
Purge Volume: 5.0 Operator: CJG

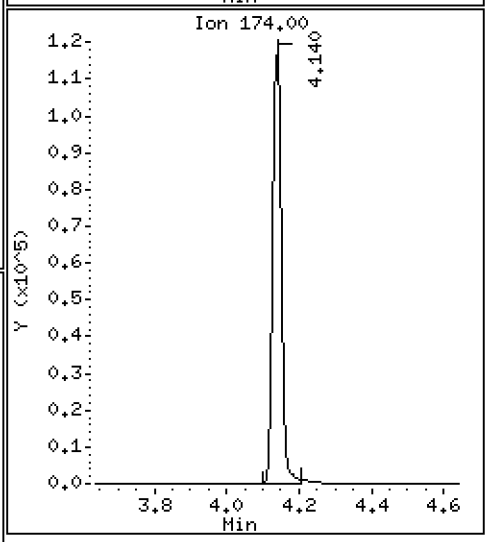
Column phase: DB-VRX Column diameter: 0.25

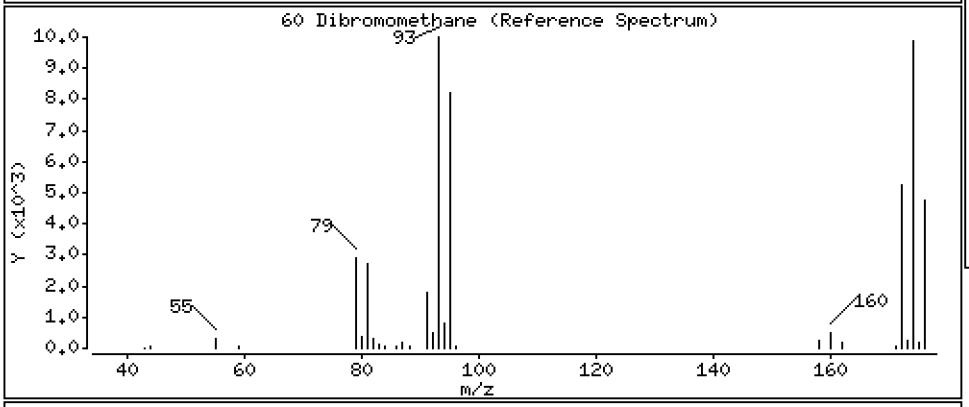
60 Dibromomethane Concentration: 44.2707 ug/L

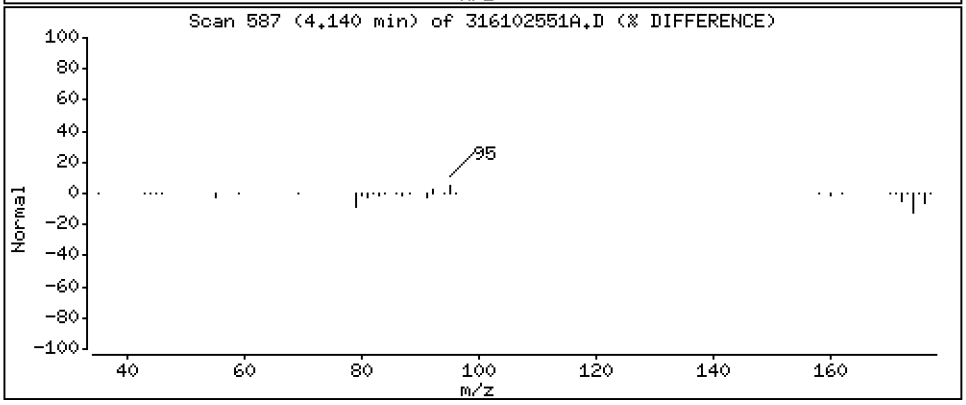












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 66

Date : 25-OCT-2016 21:59

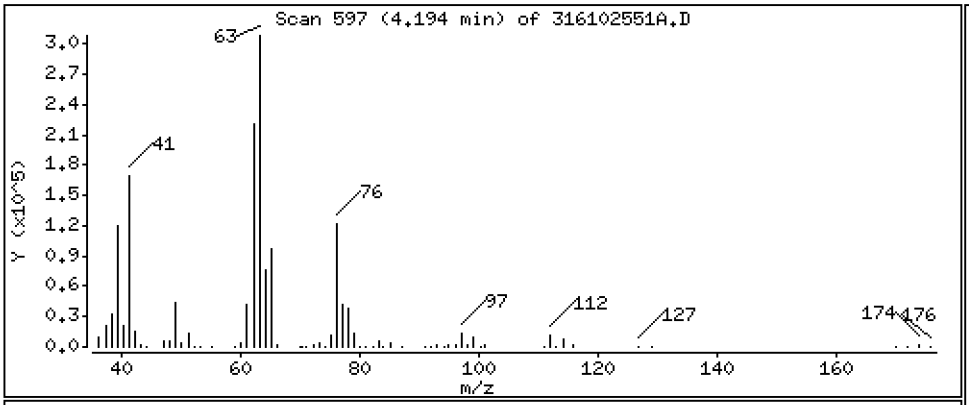
Client ID: Instrument: ms03.i

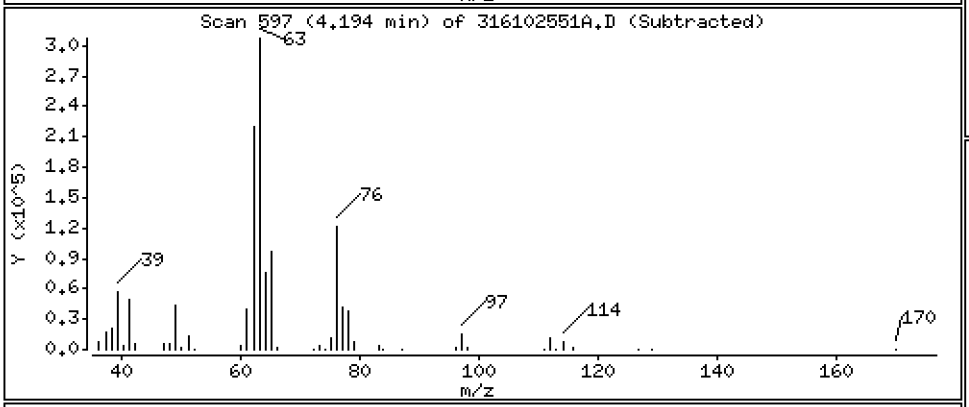
Sample Info: 1800;;1;2;4;;;

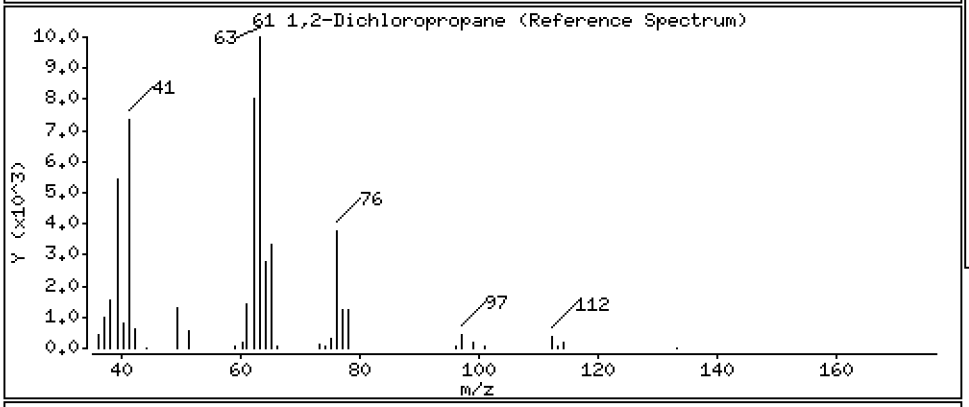
Purge Volume: 5.0 Operator: CJG

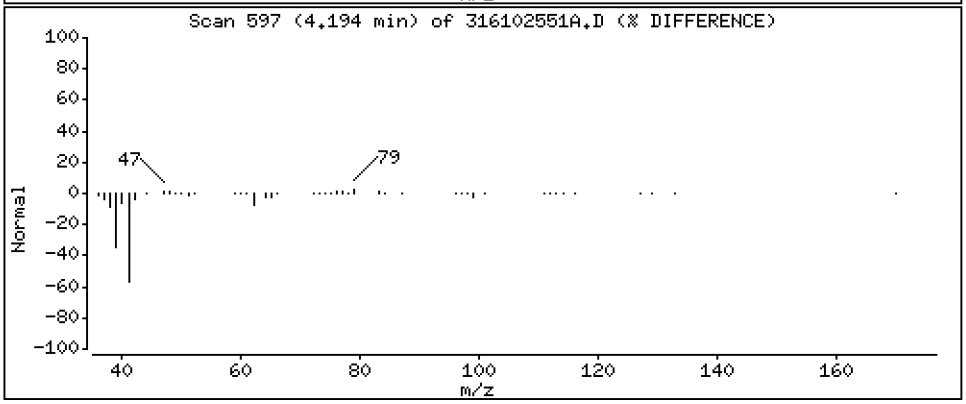
Column phase: DB-VRX Column diameter: 0.25

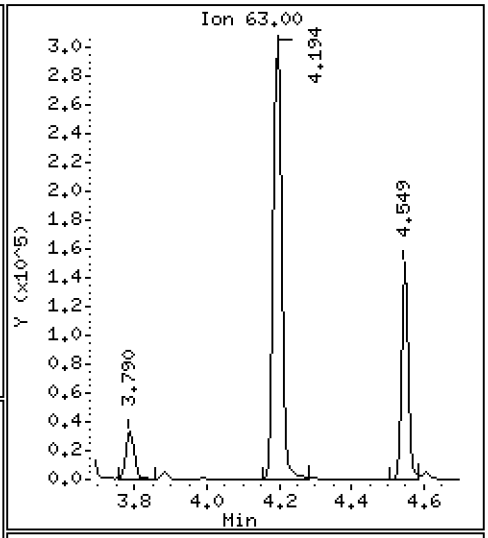
61 1,2-Dichloropropane Concentration: 46.1299 ug/L

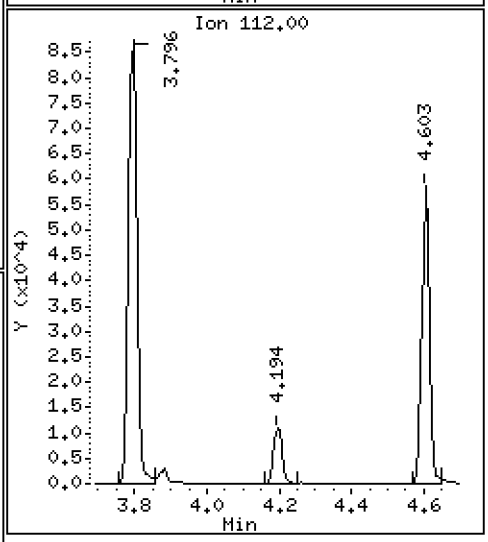












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 67

Date : 25-OCT-2016 21:59

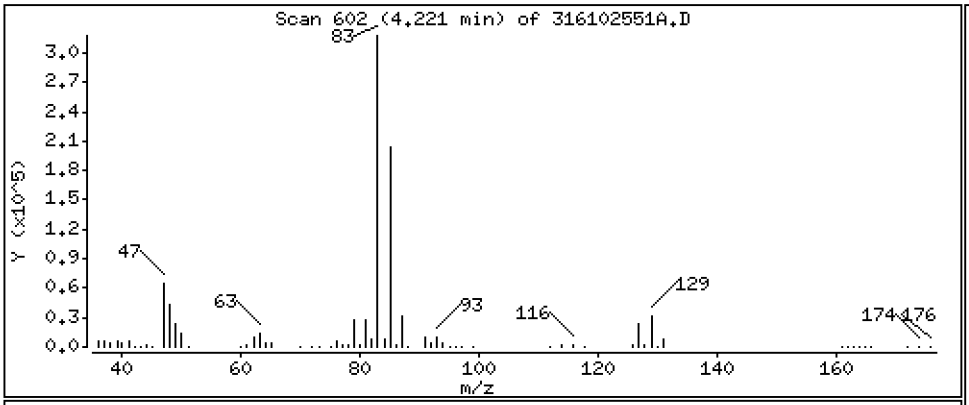
Client ID: Instrument: ms03.i

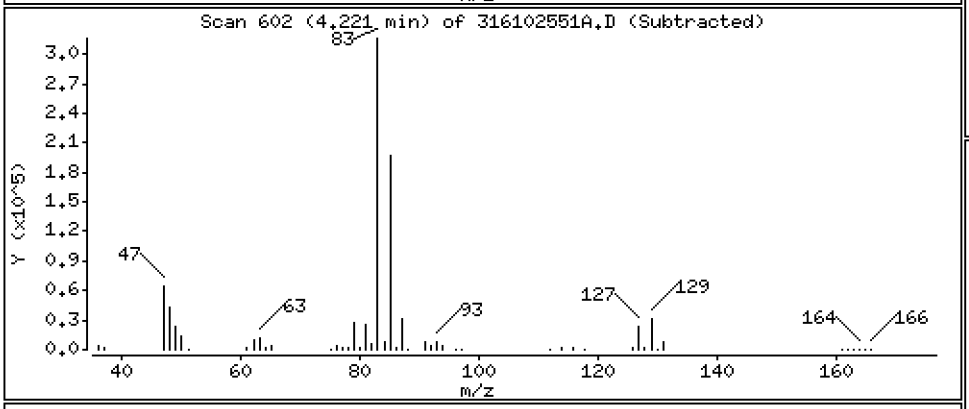
Sample Info: 1800;;1;2;4;;;

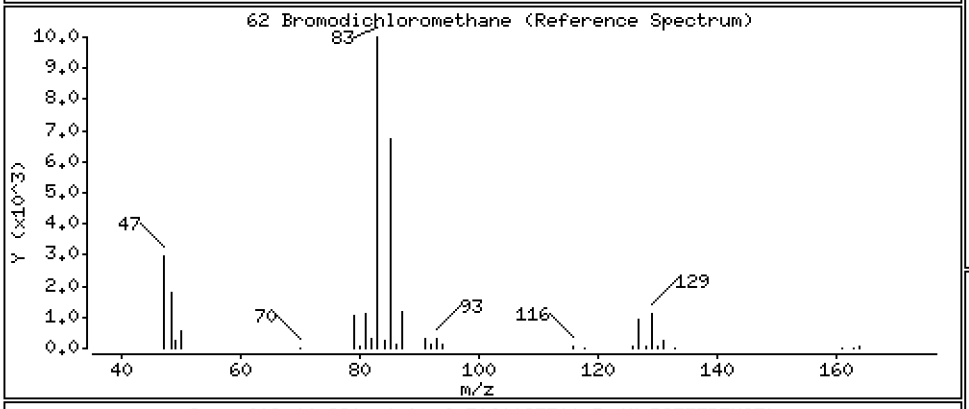
Purge Volume: 5.0 Operator: CJG

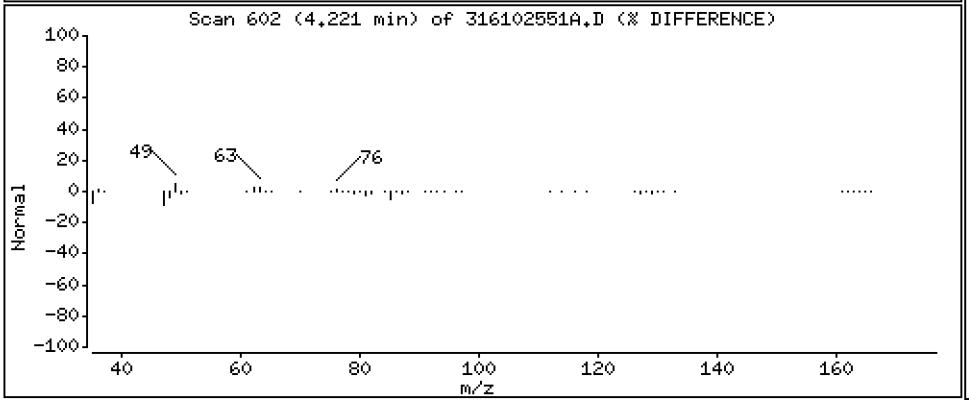
Column phase: DB-VRX Column diameter: 0.25

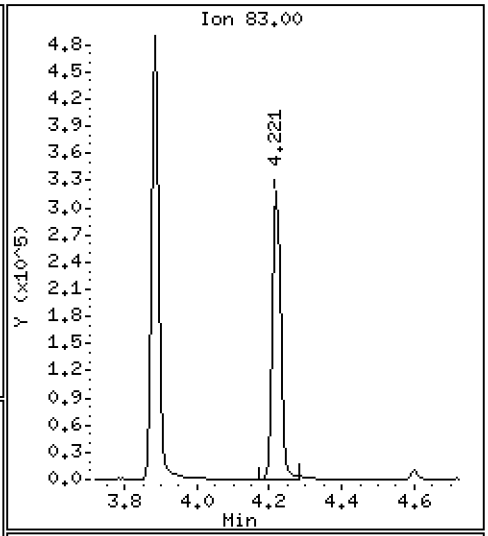
62 Bromodichloromethane Concentration: 47.1933 ug/L

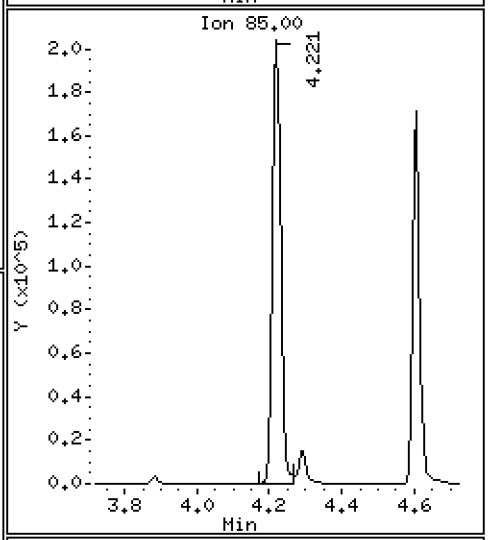


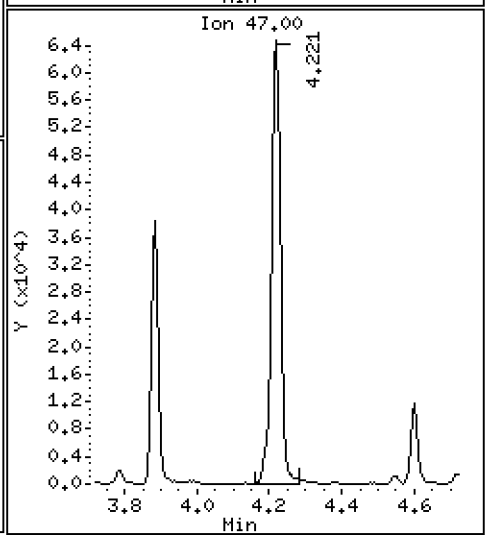












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 68

Date : 25-OCT-2016 21:59

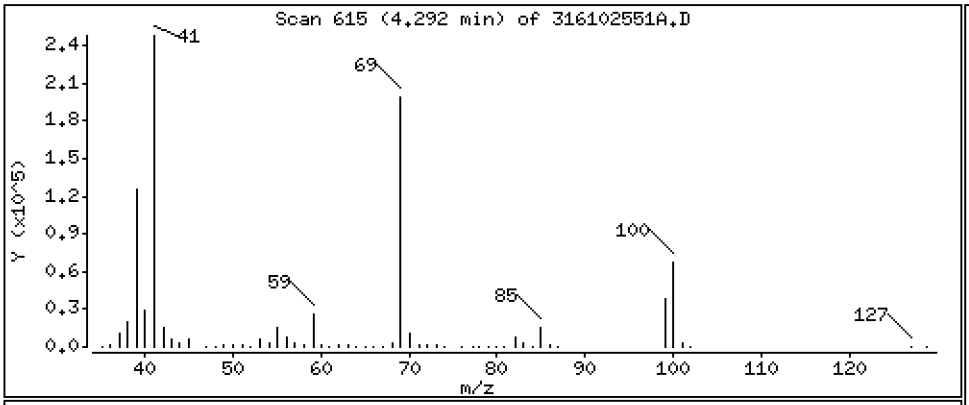
Client ID: Instrument: ms03.i

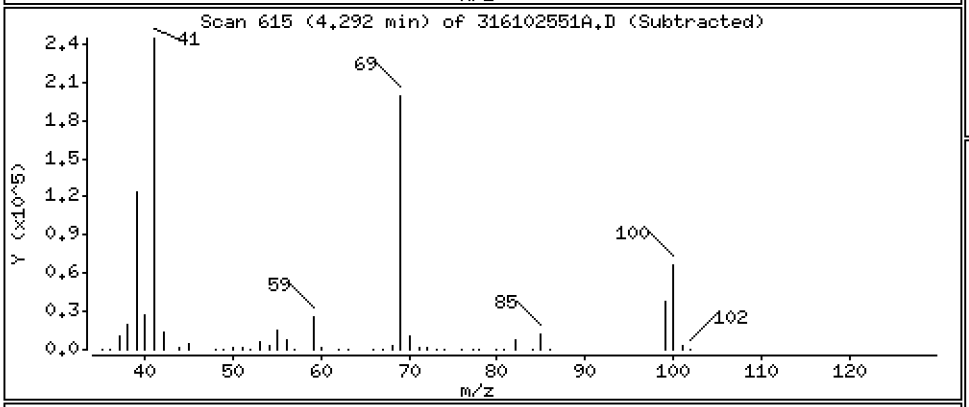
Sample Info: 1800;;1;2;4;;;

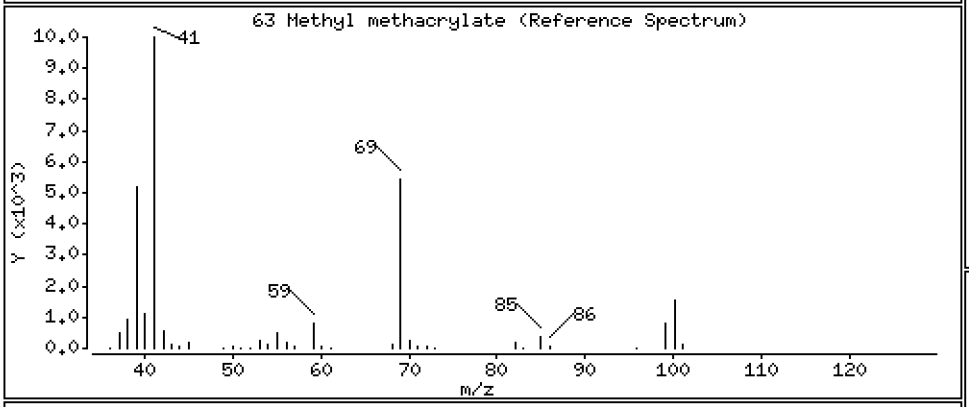
Purge Volume: 5.0 Operator: CJG

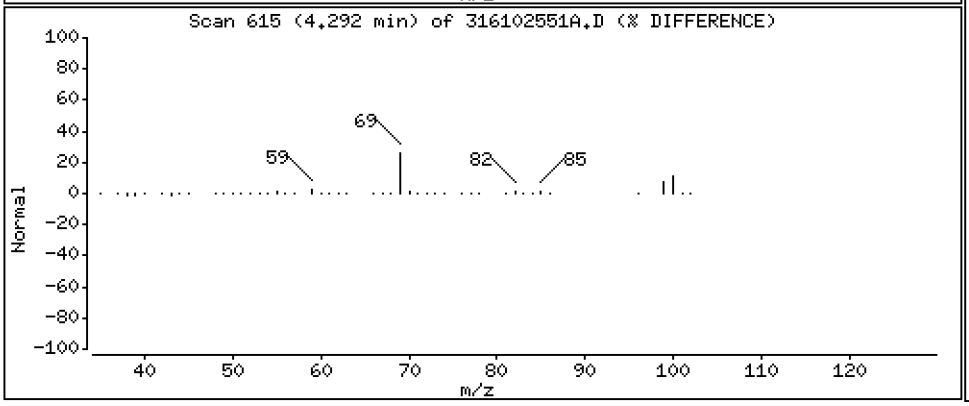
Column phase: DB-VRX Column diameter: 0.25

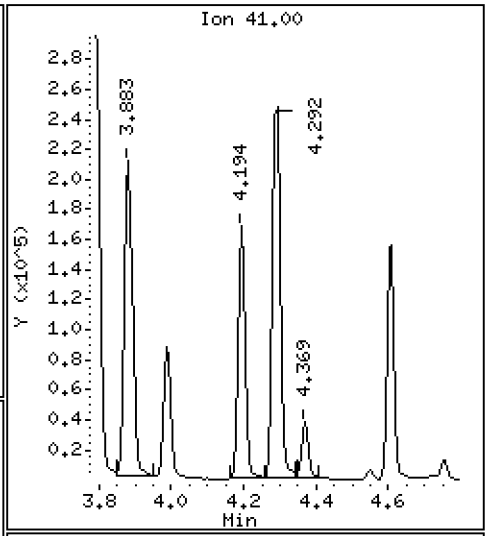
63 Methyl methacrylate Concentration: 50.6201 ug/L

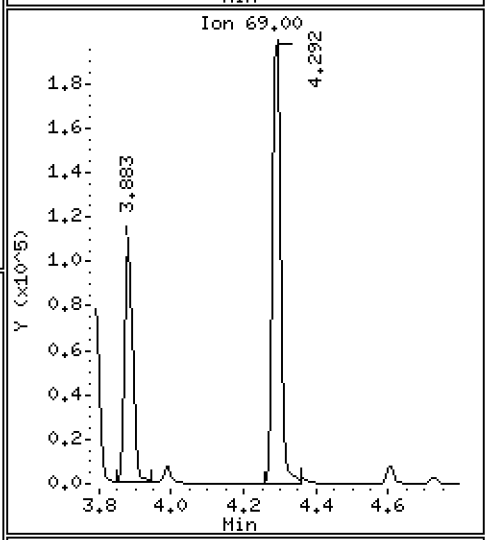


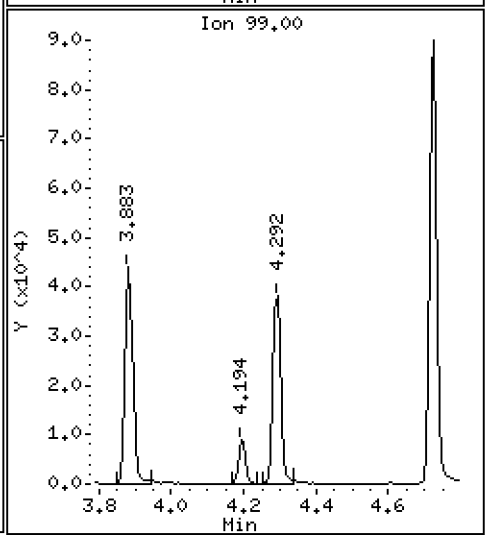












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 69

Date : 25-OCT-2016 21:59

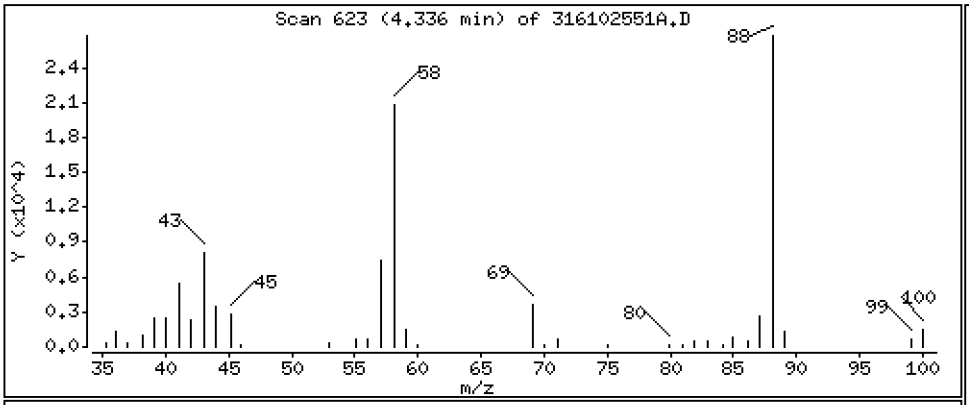
Client ID: Instrument: ms03.i

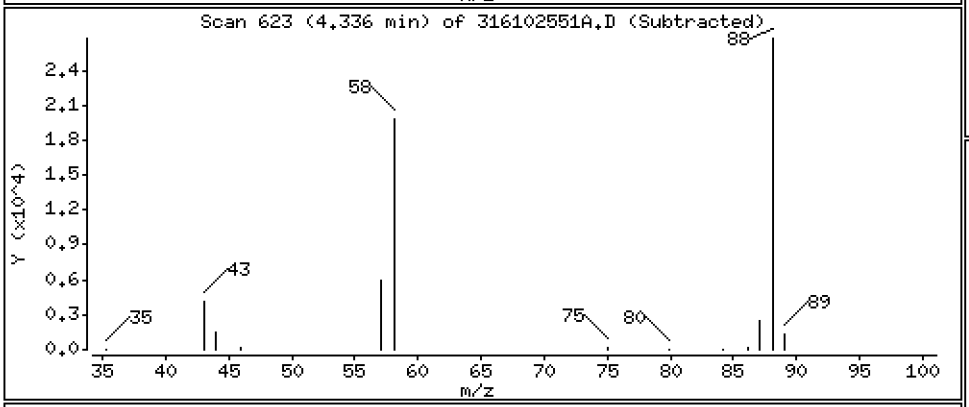
Sample Info: 1800;;1;2;4;;;

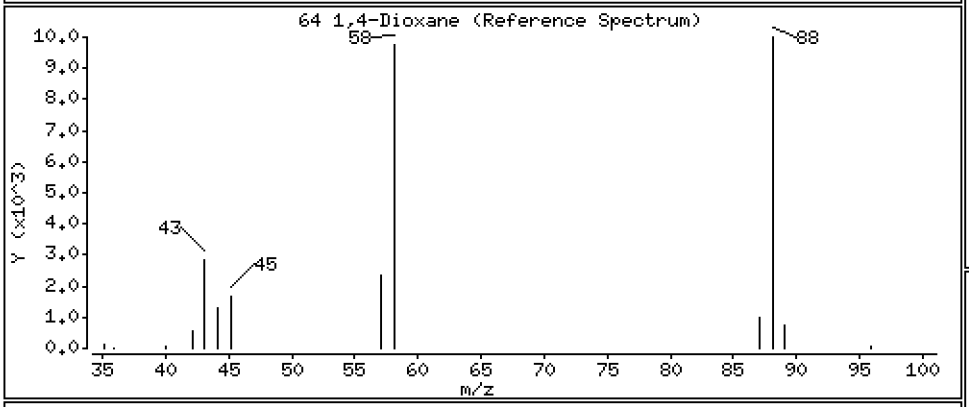
Purge Volume: 5.0 Operator: CJG

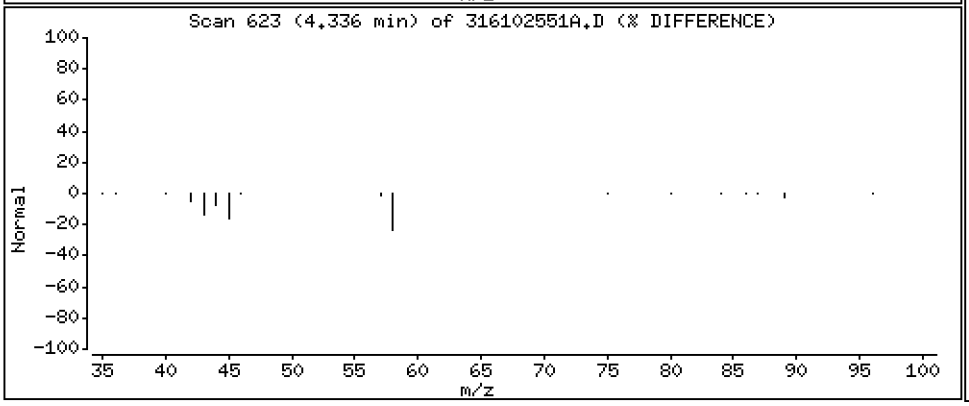
Column phase: DB-VRX Column diameter: 0.25

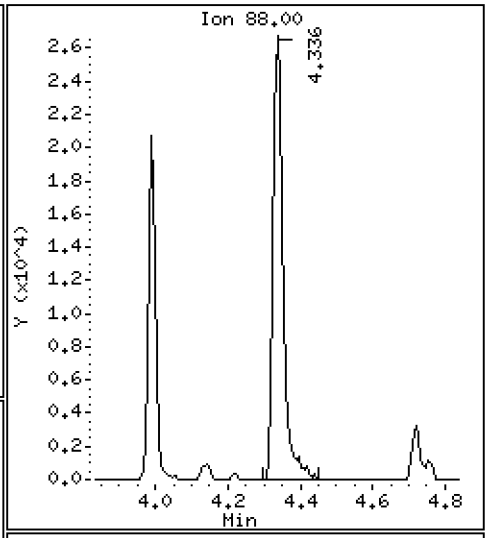
64 1,4-Dioxane Concentration: 1474.52 ug/L

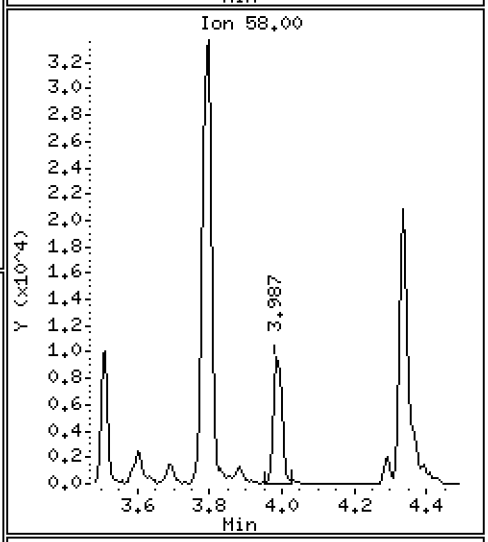


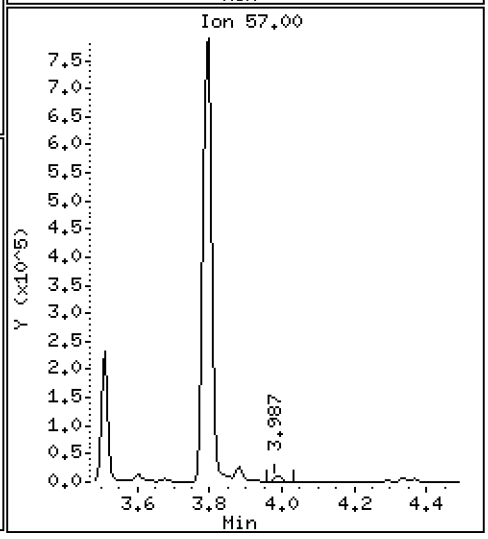












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 70

Date : 25-OCT-2016 21:59

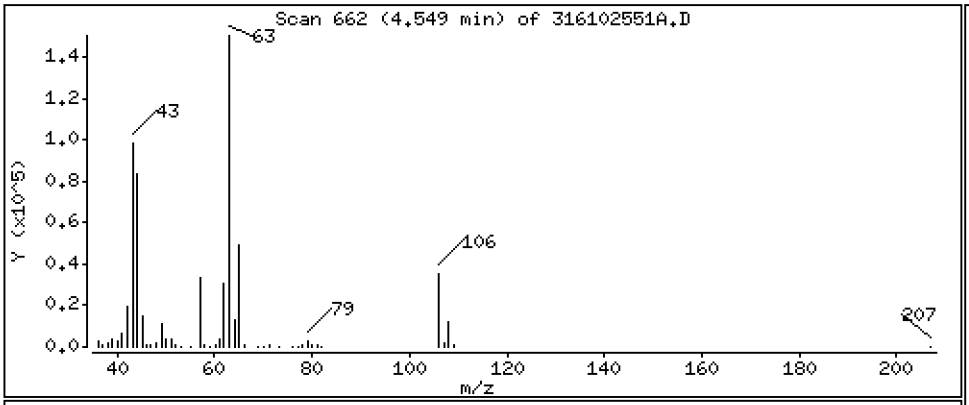
Client ID: Instrument: ms03.i

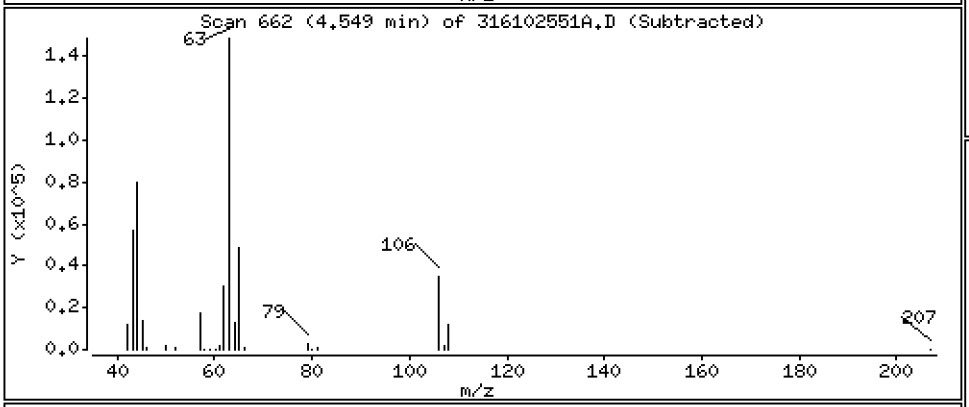
Sample Info: 1800;;1;2;4;;;

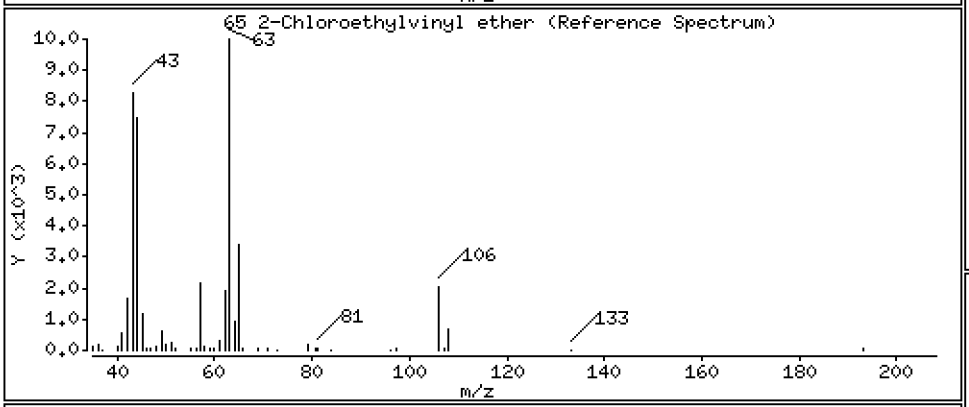
Purge Volume: 5.0 Operator: CJG

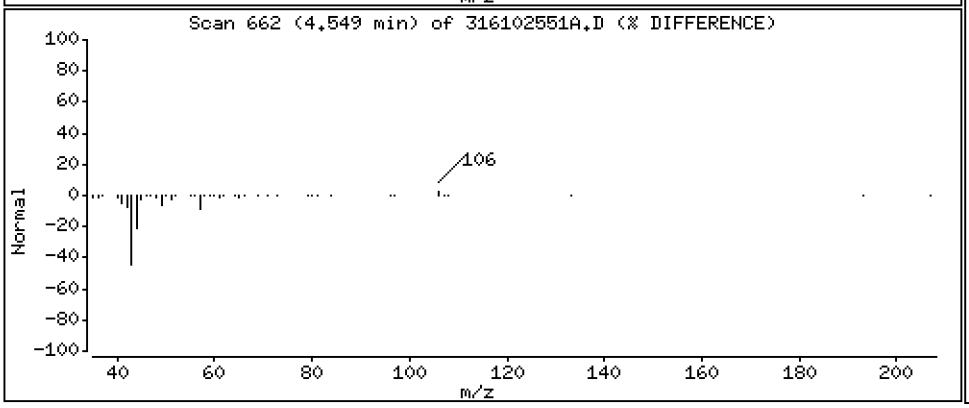
Column phase: DB-VRX Column diameter: 0.25

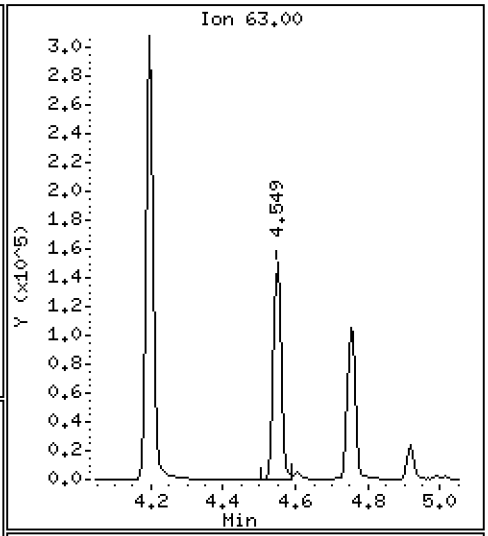
65 2-Chloroethylvinyl ether Concentration: 42.7754 ug/L

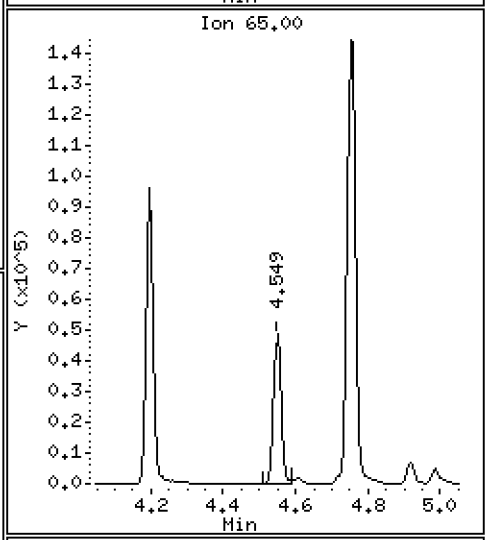


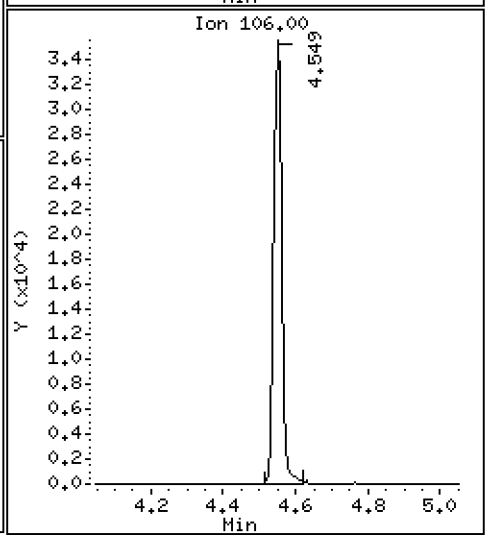












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 71

Date : 25-OCT-2016 21:59

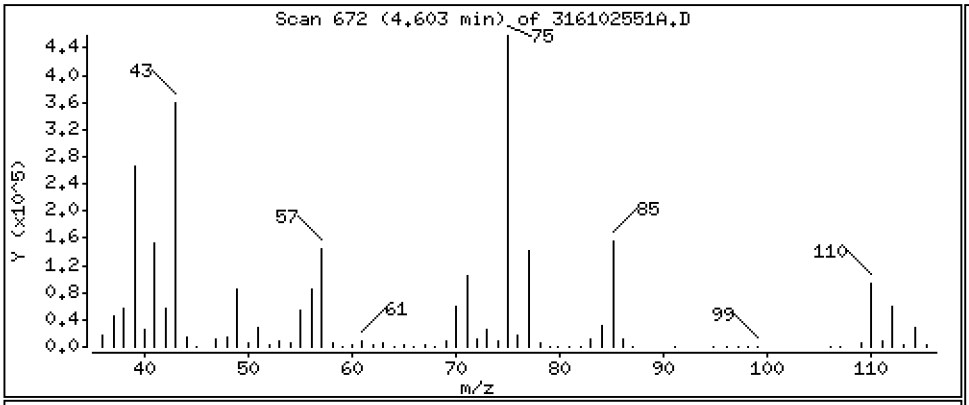
Client ID: Instrument: ms03.i

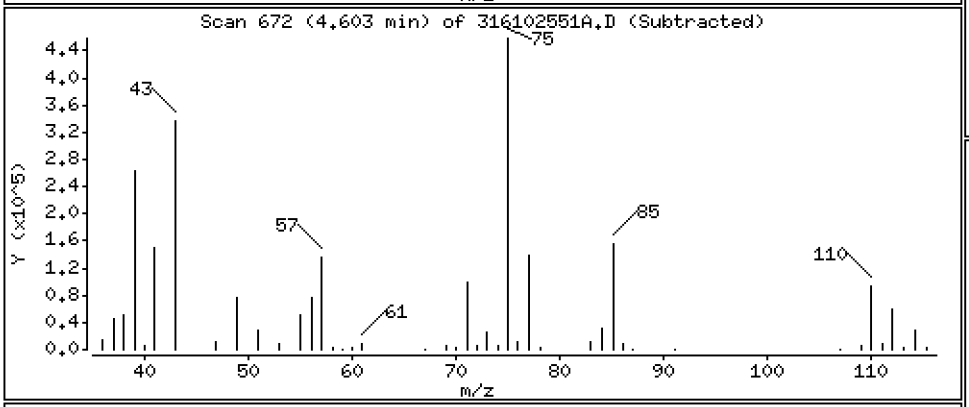
Sample Info: 1800;;1;2;4;;;

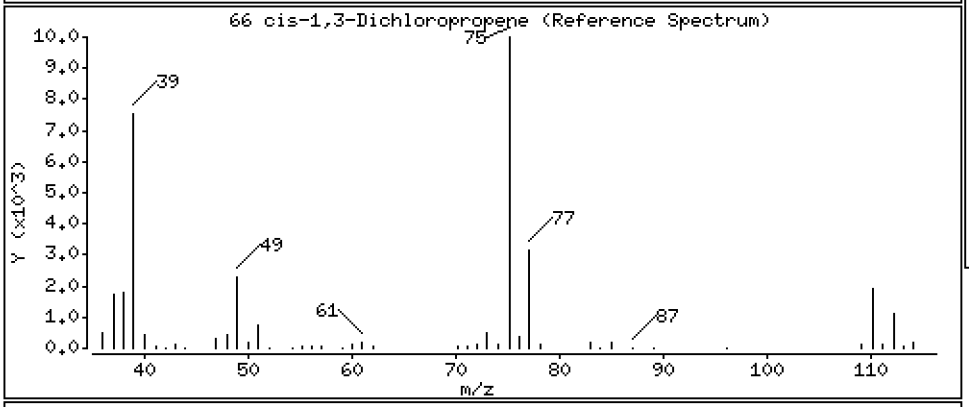
Purge Volume: 5.0 Operator: CJG

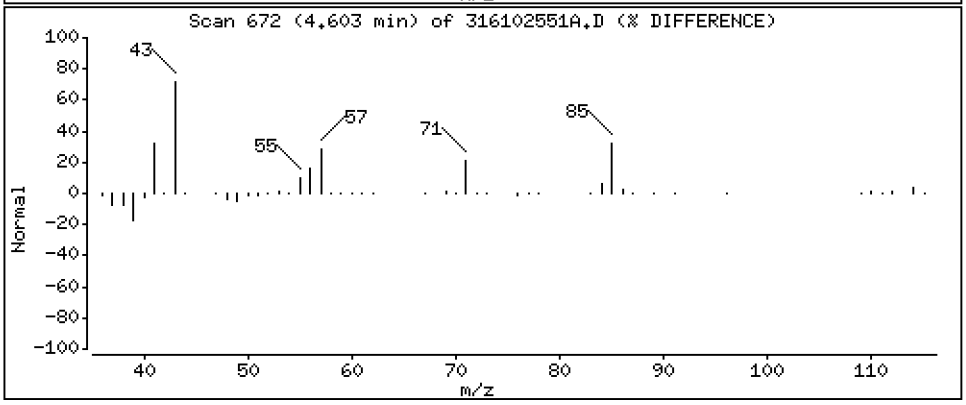
Column phase: DB-VRX Column diameter: 0.25

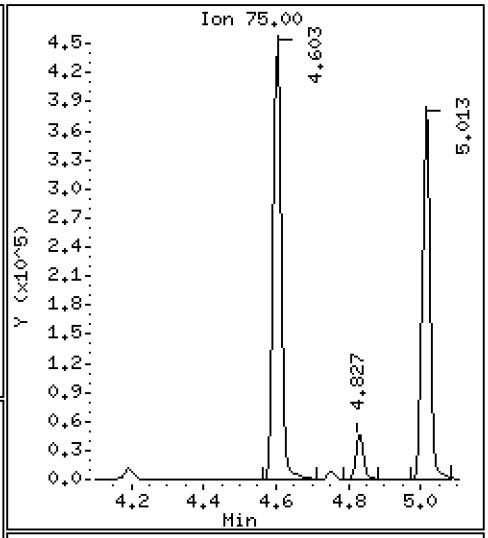
66 cis-1,3-Dichloropropene Concentration: 50.3715 ug/L

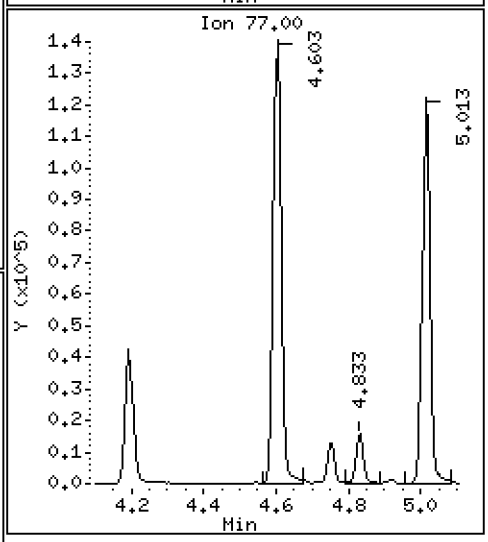












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 72

Date : 25-OCT-2016 21:59

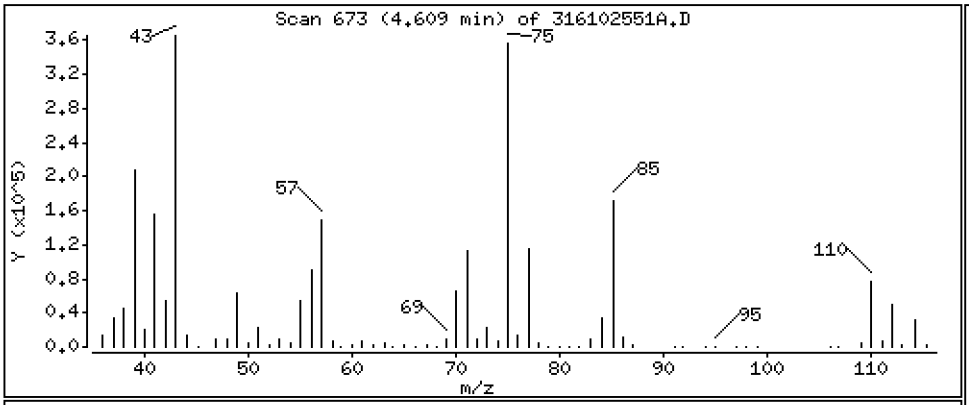
Client ID: Instrument: ms03.i

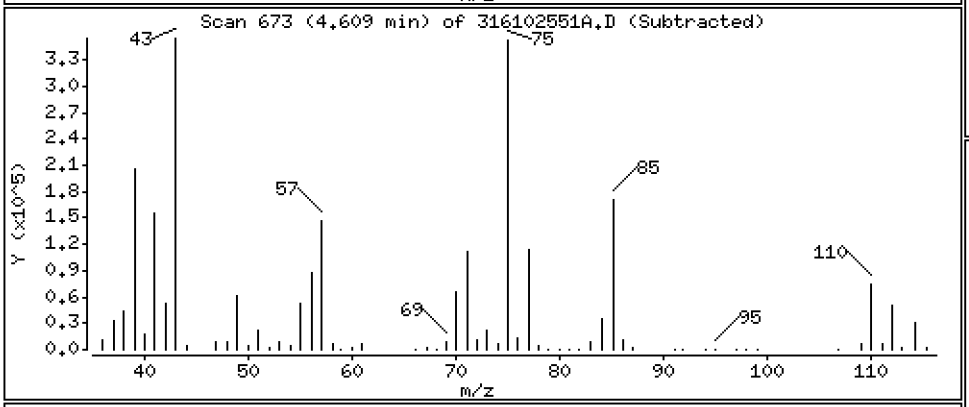
Sample Info: 1800;;1;2;4;;;

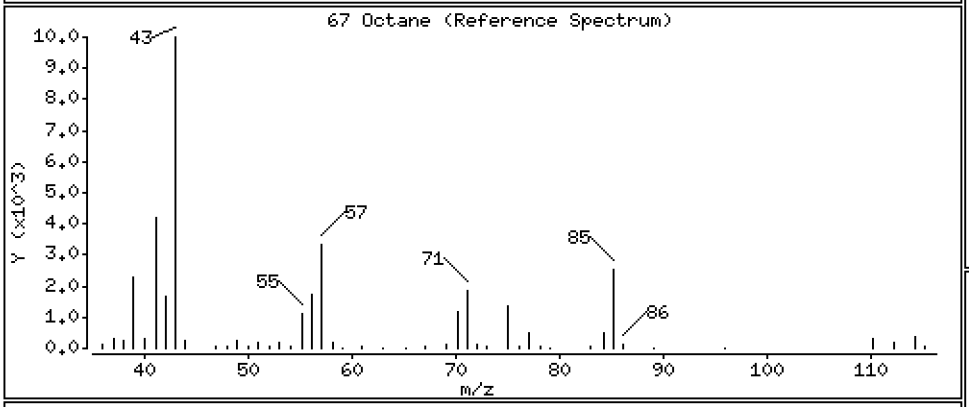
Purge Volume: 5.0 Operator: CJG

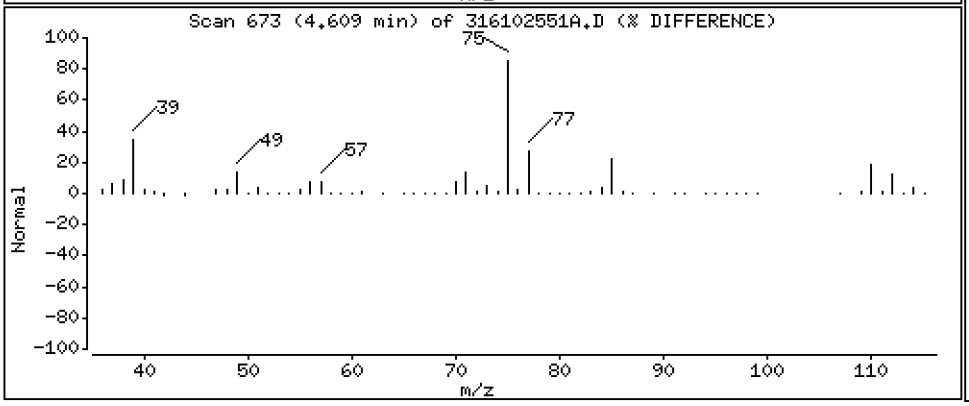
Column phase: DB-VRX Column diameter: 0.25

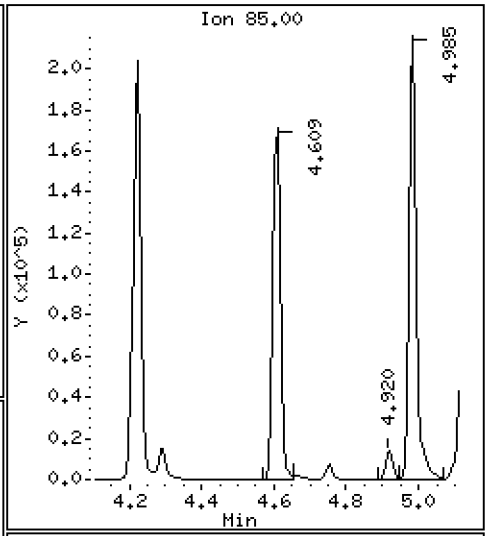
67 Octane Concentration: 60.1590 ug/L

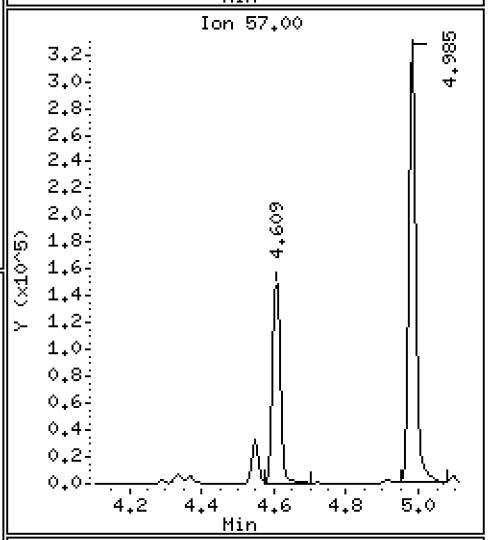


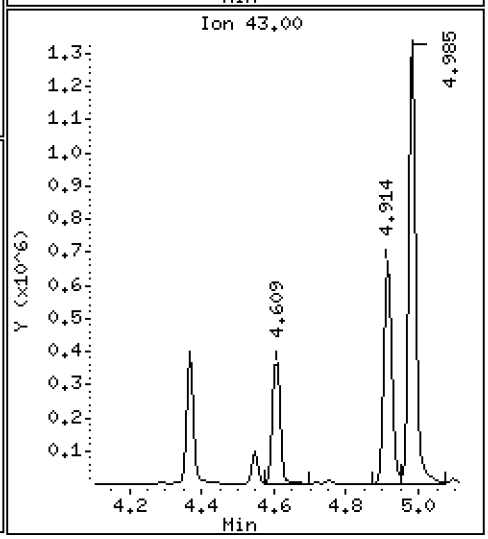












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 73

Date : 25-OCT-2016 21:59

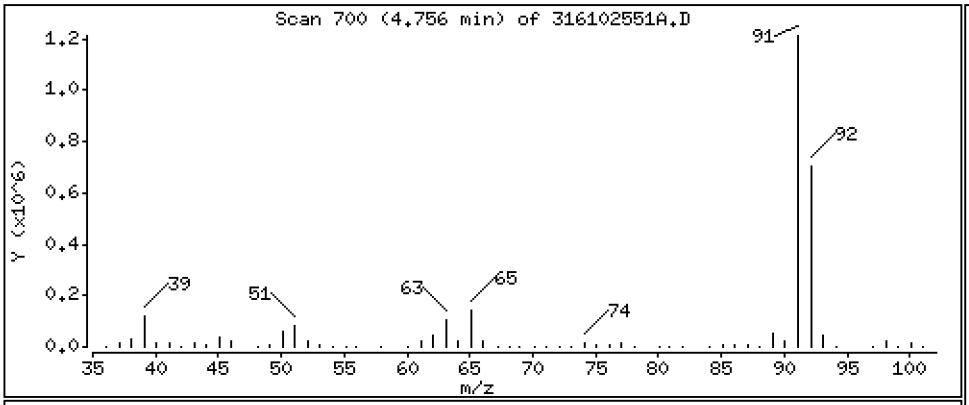
Client ID: Instrument: ms03.i

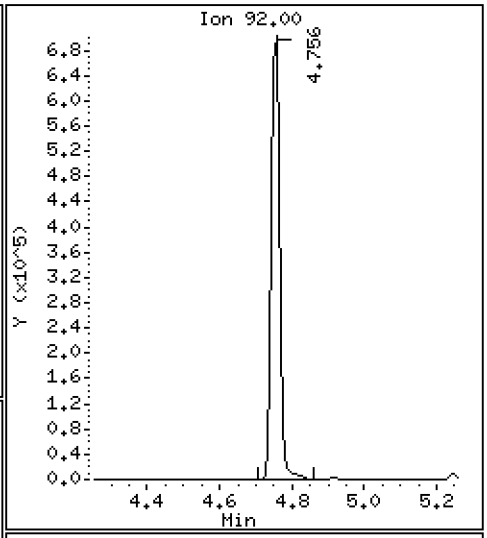
Sample Info: 1800;;1;2;4;;;

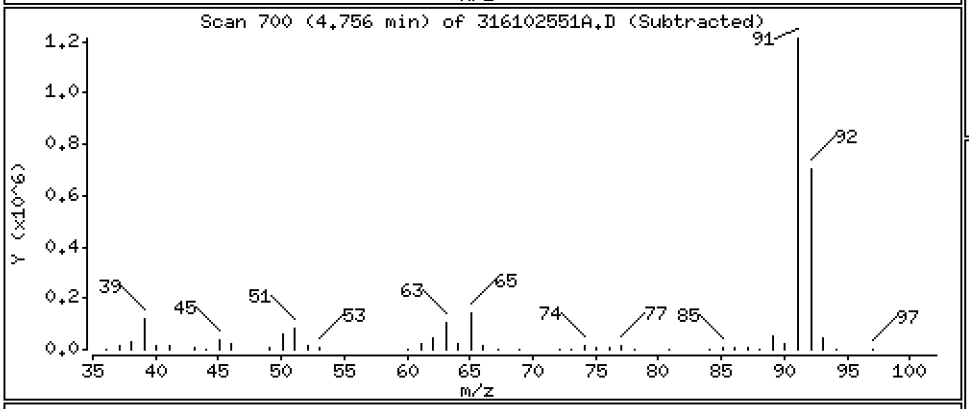
Purge Volume: 5.0 Operator: CJG

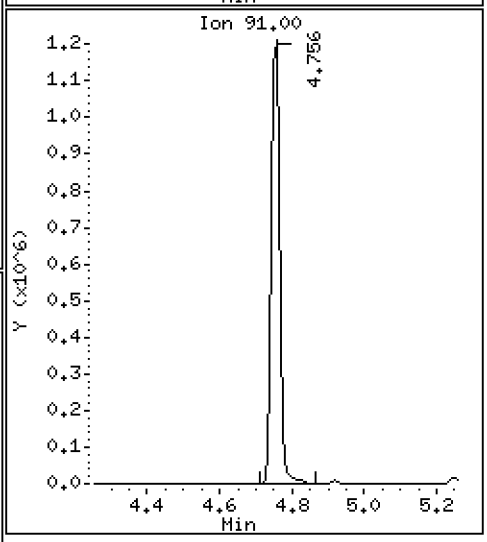
Column phase: DB-VRX Column diameter: 0.25

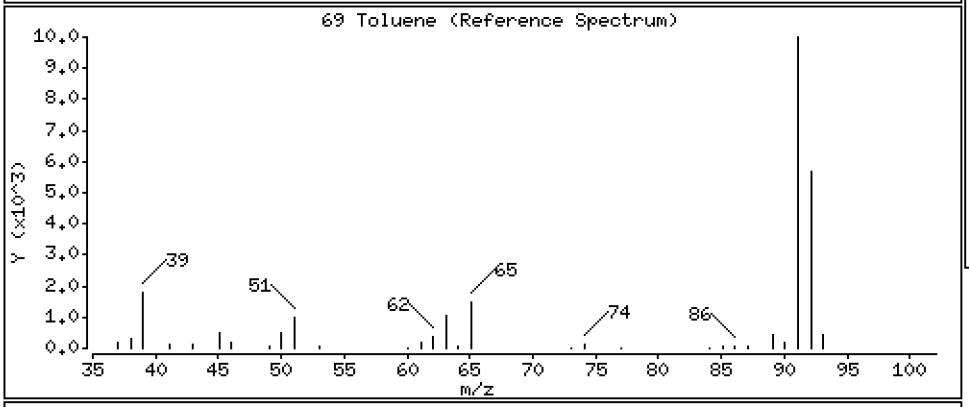
69 Toluene Concentration: 46.0808 ug/L

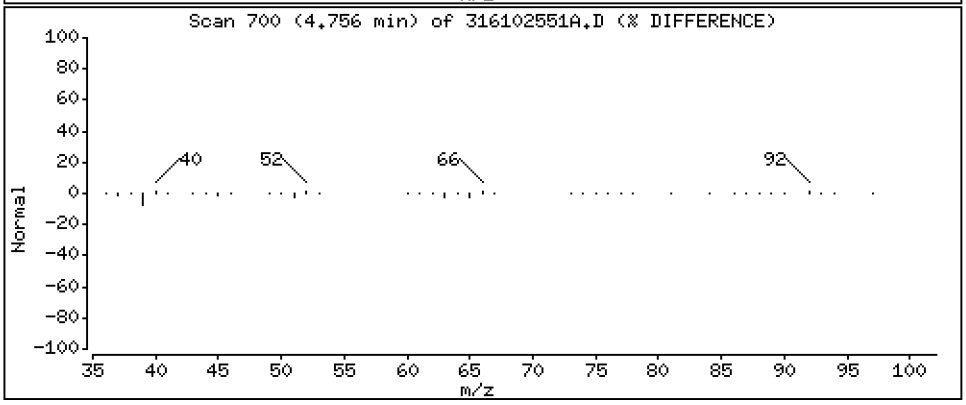












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 74

Date : 25-OCT-2016 21:59

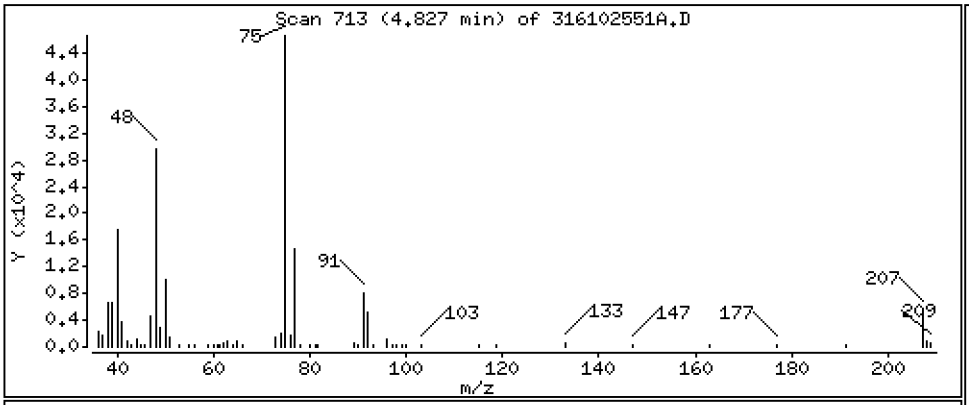
Client ID: Instrument: ms03.i

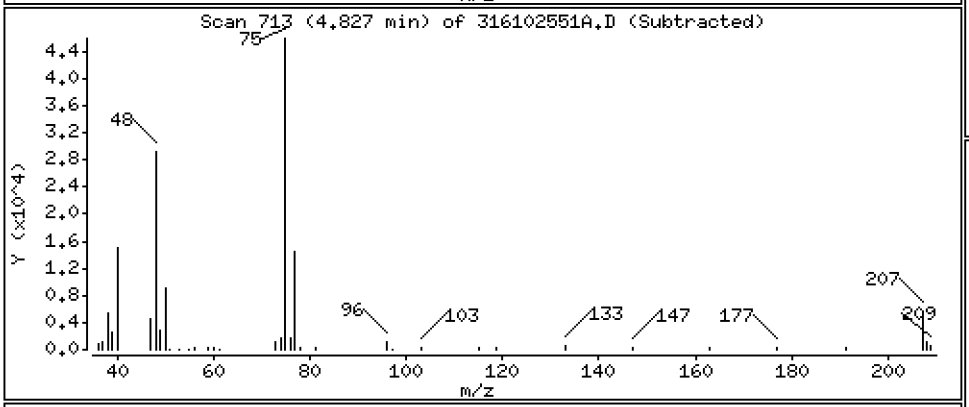
Sample Info: 1800;;1;2;4;;;

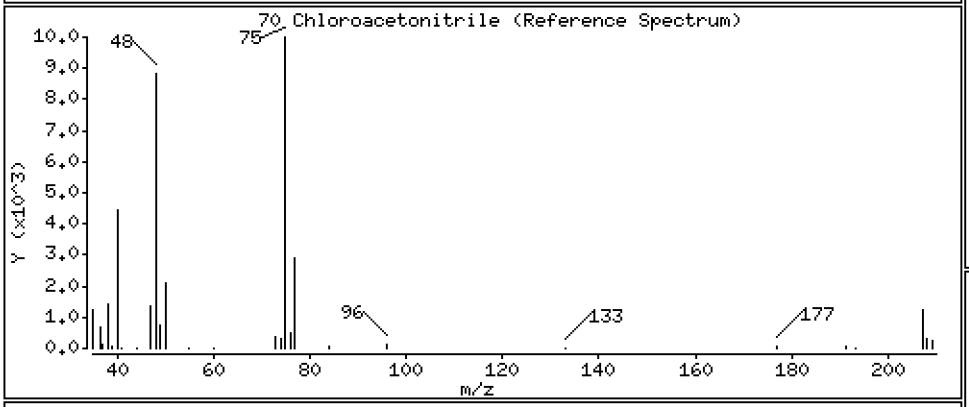
Purge Volume: 5.0 Operator: CJG

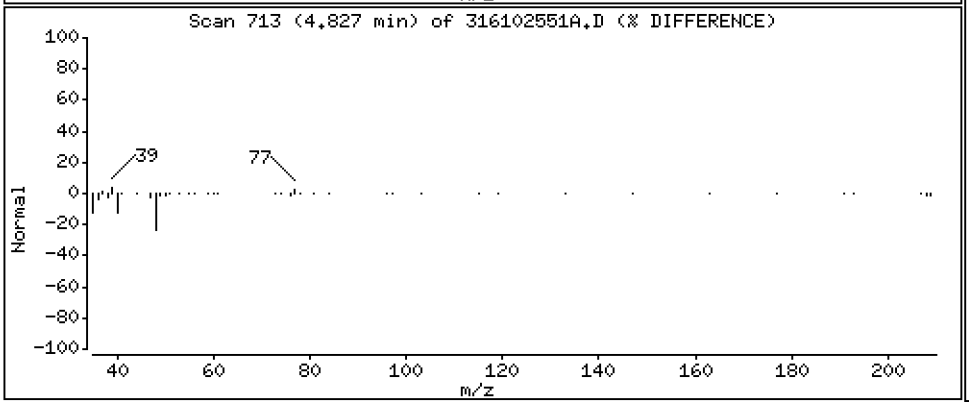
Column phase: DB-VRX Column diameter: 0.25

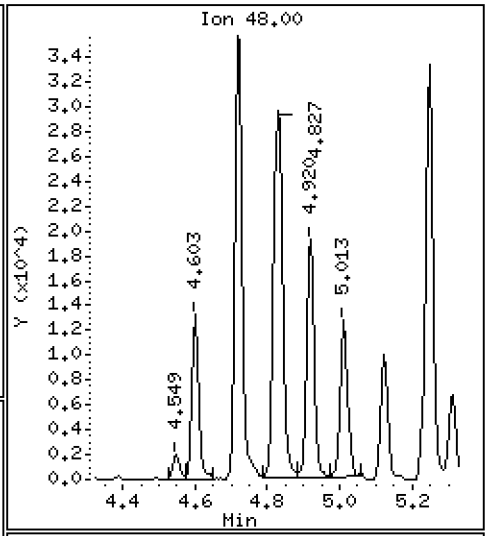
70 Chloroacetonitrile Concentration: 239.499 ug/L

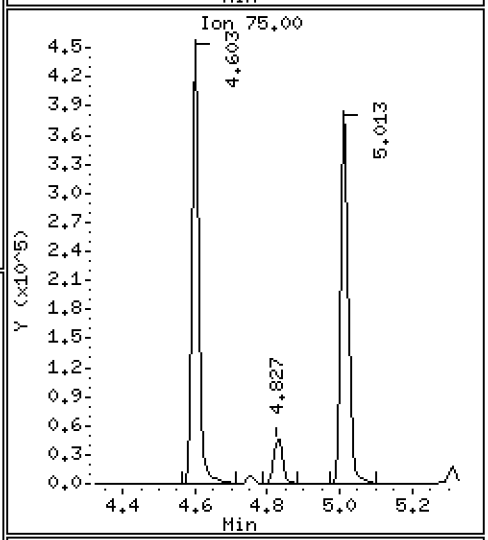


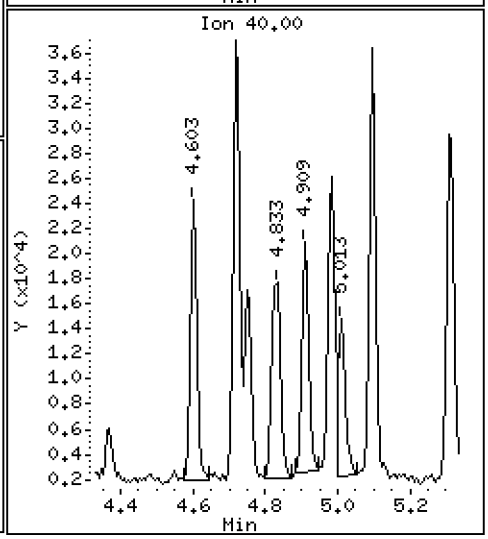












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 75

Date : 25-OCT-2016 21:59

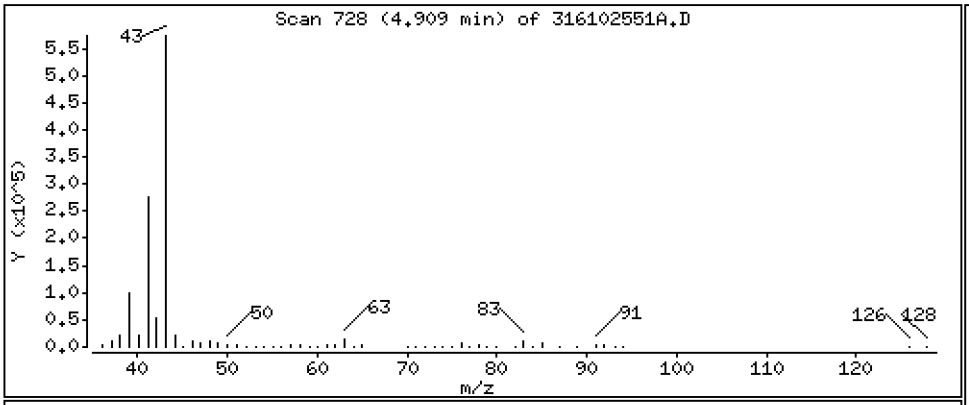
Client ID: Instrument: ms03.i

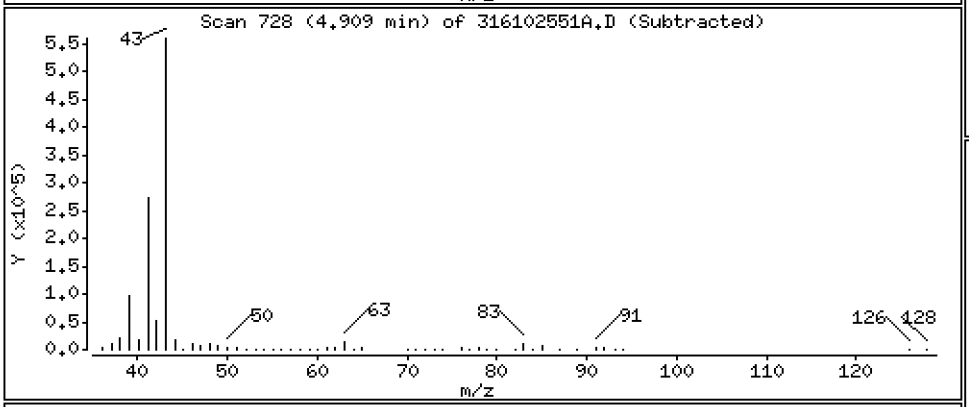
Sample Info: 1800;;1;2;4;;;

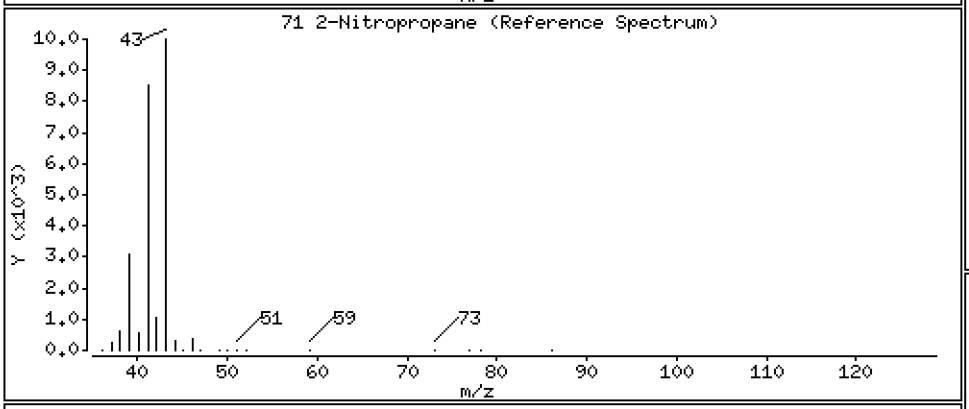
Purge Volume: 5.0 Operator: CJG

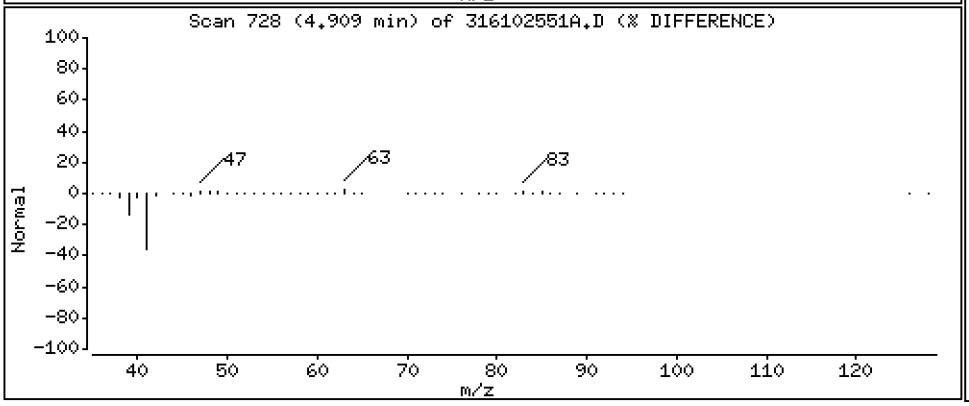
Column phase: DB-VRX Column diameter: 0.25

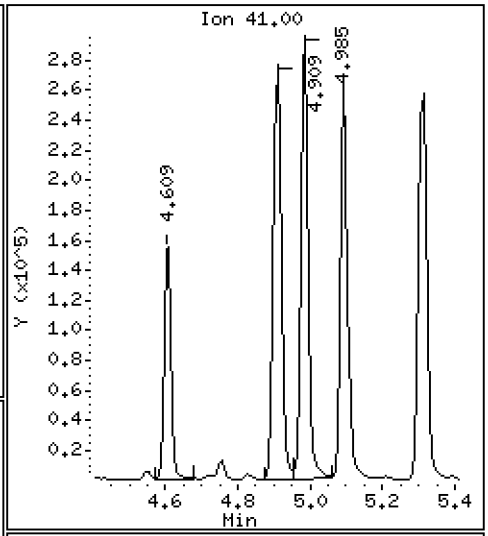
71 2-Nitropropane Concentration: 238.975 ug/L

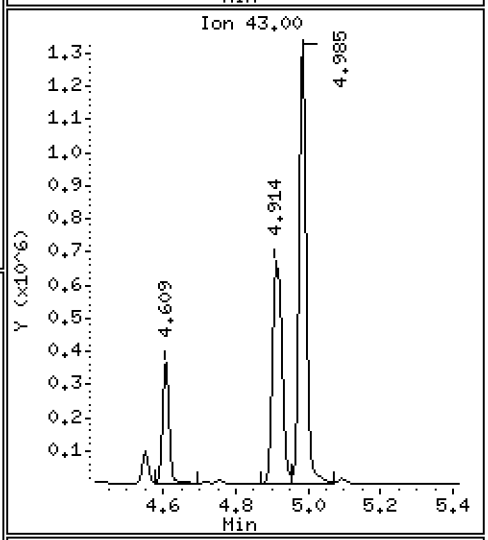


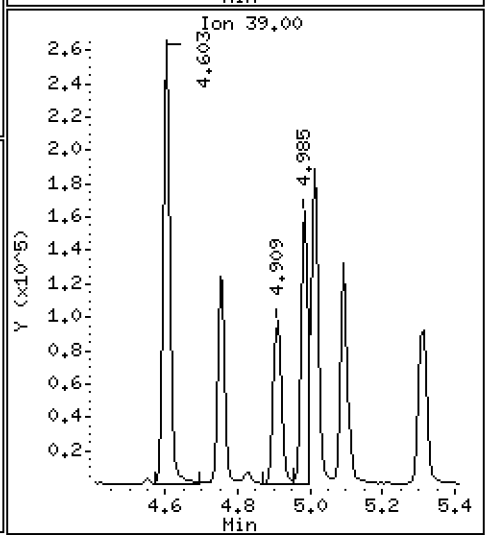












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 76

Date : 25-OCT-2016 21:59

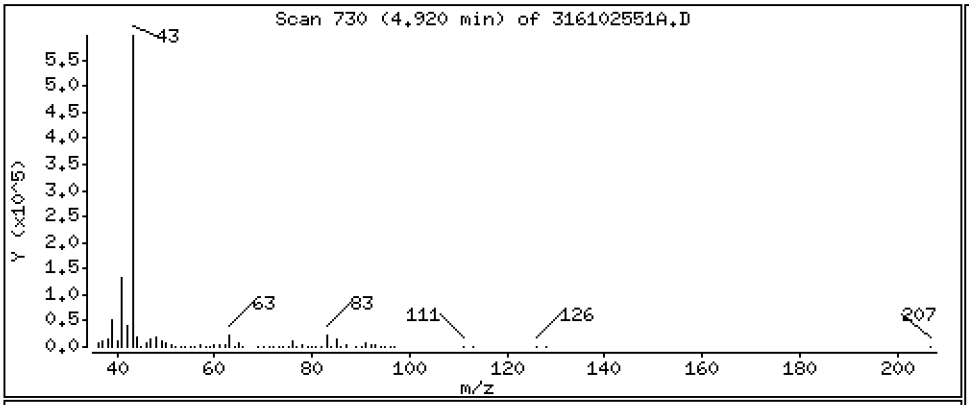
Client ID: Instrument: ms03.i

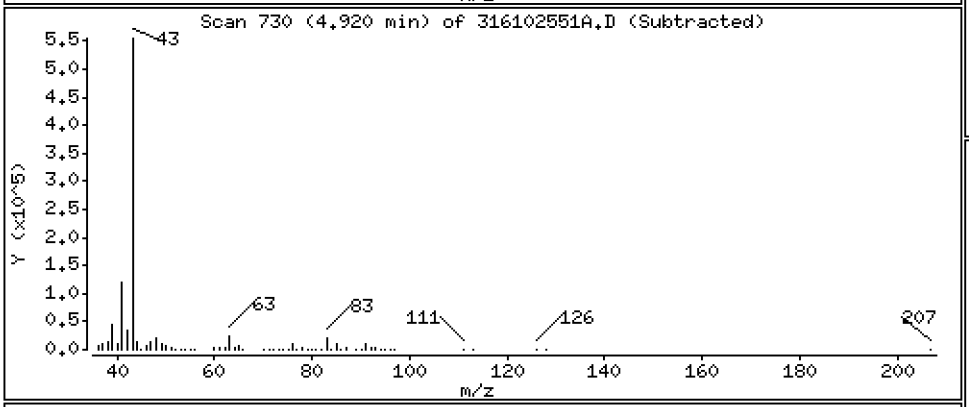
Sample Info: 1800;;1;2;4;;;

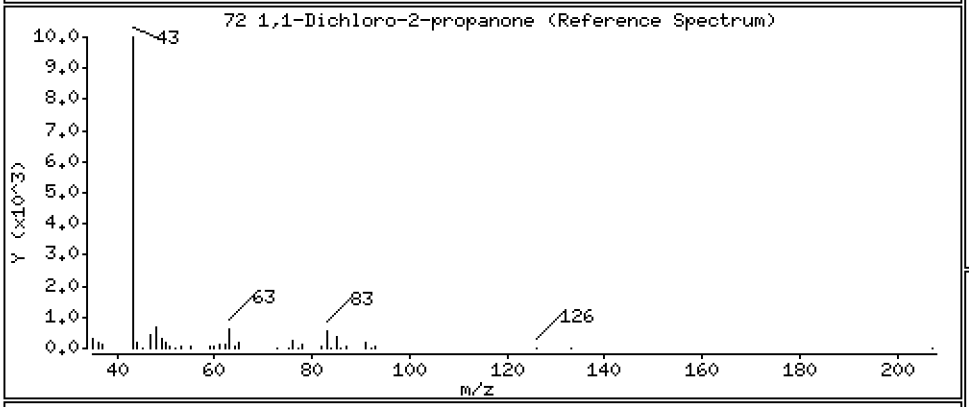
Purge Volume: 5.0 Operator: CJG

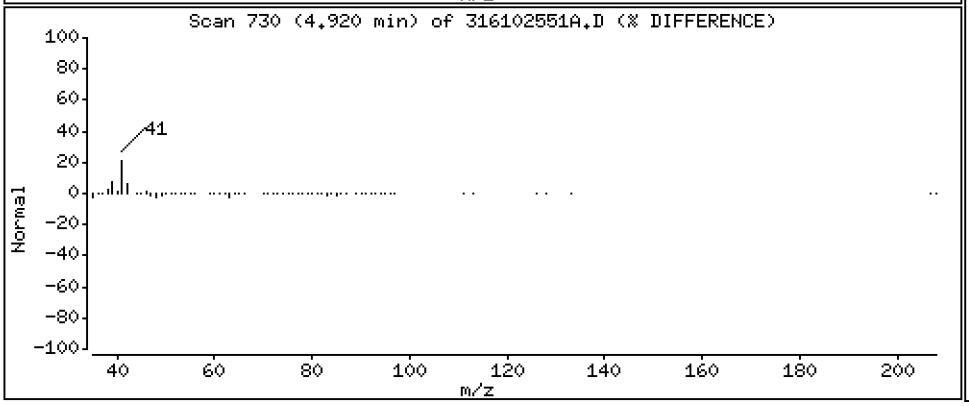
Column phase: DB-VRX Column diameter: 0.25

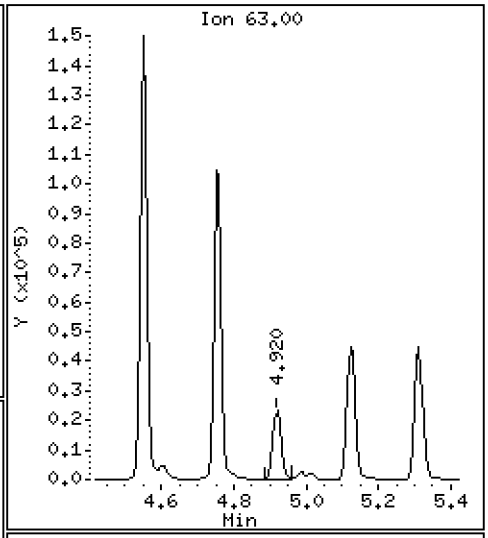
72 1,1-Dichloro-2-propanone Concentration: 229.525 ug/L

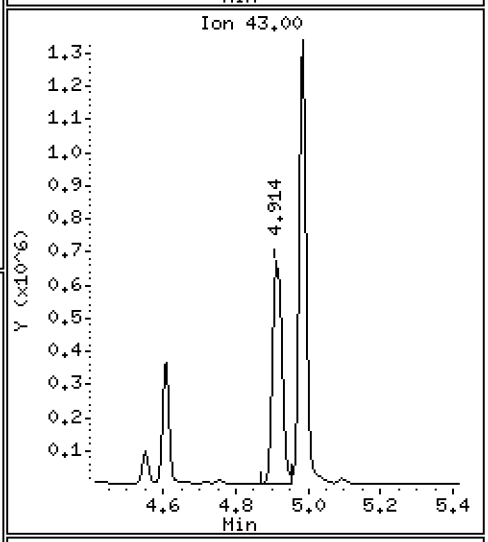


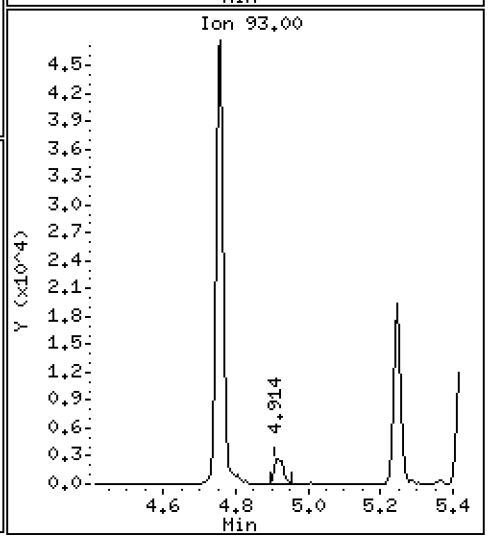












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 77

Date : 25-OCT-2016 21:59

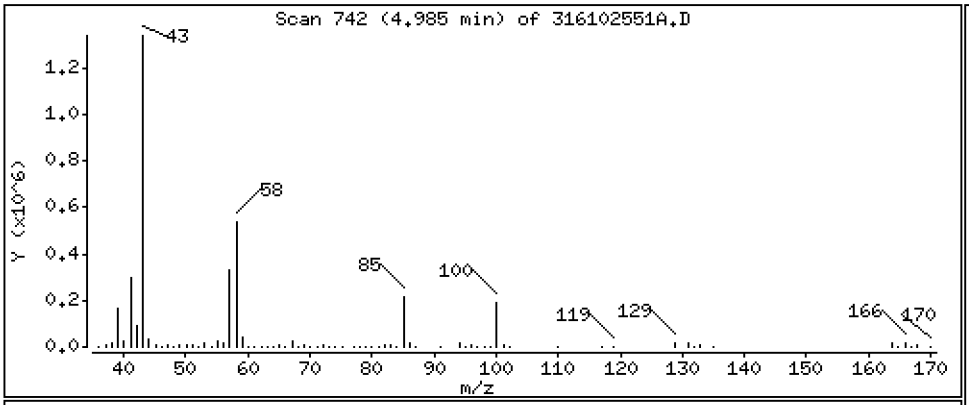
Client ID: Instrument: ms03.i

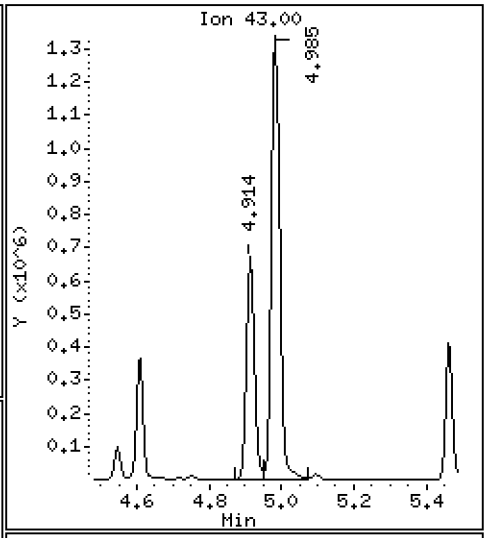
Sample Info: 1800;;1;2;4;;;

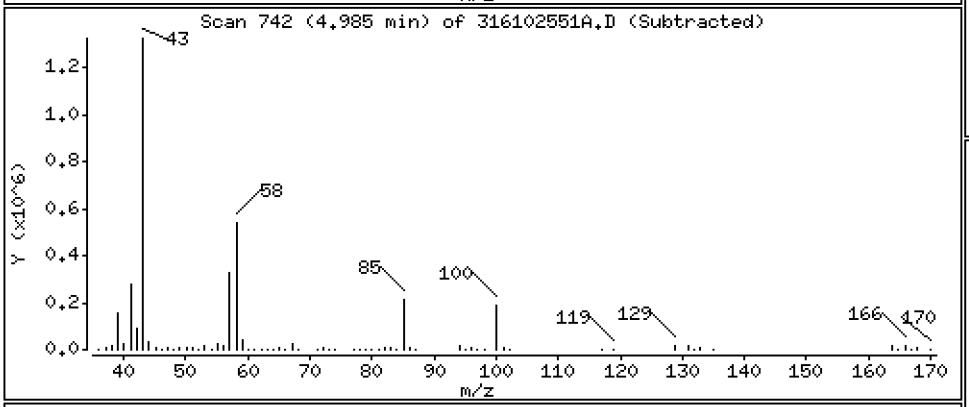
Purge Volume: 5.0 Operator: CJG

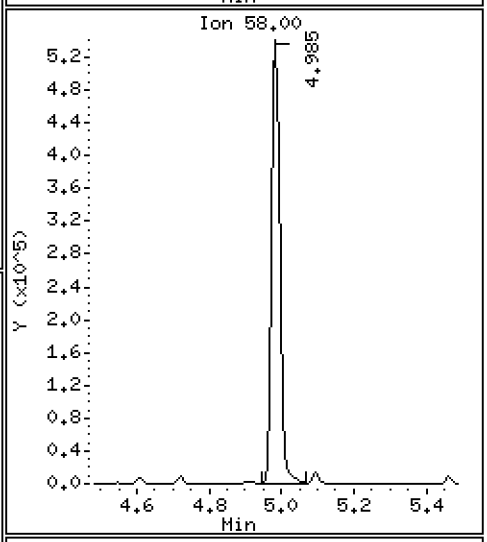
Column phase: DB-VRX Column diameter: 0.25

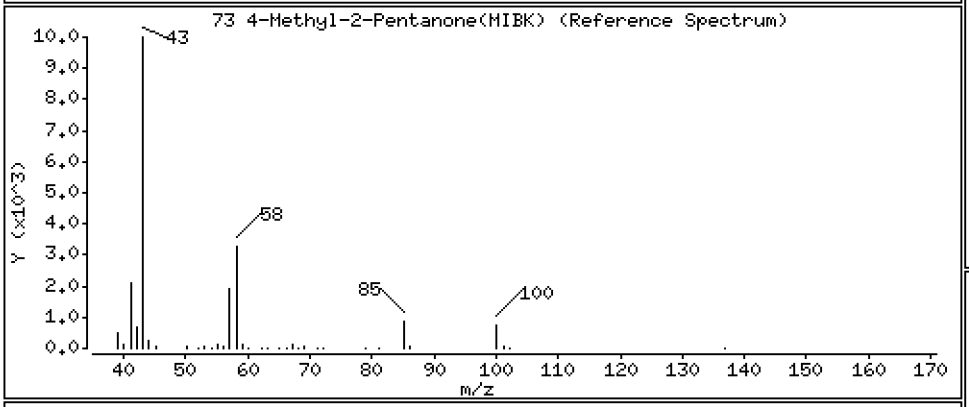
73 4-Methyl-2-Pentanone(MIBK) Concentration: 257.354 ug/L

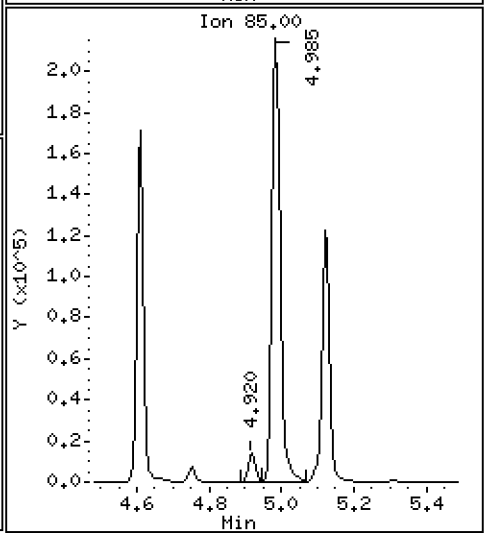


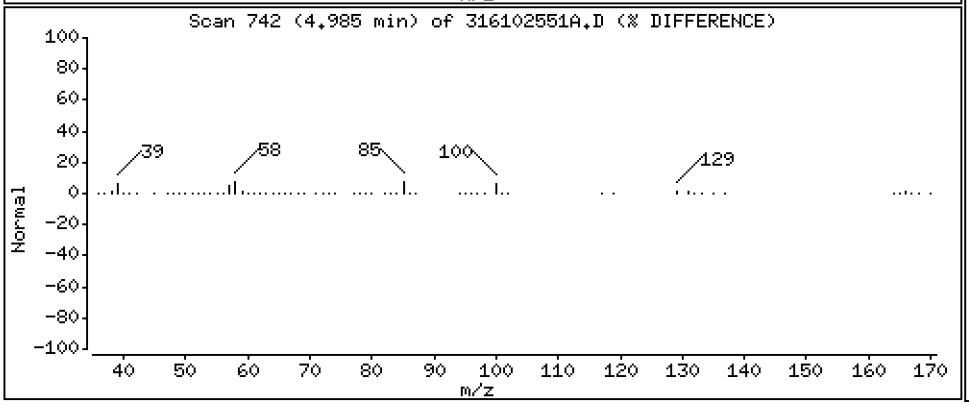












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 78

Date : 25-OCT-2016 21:59

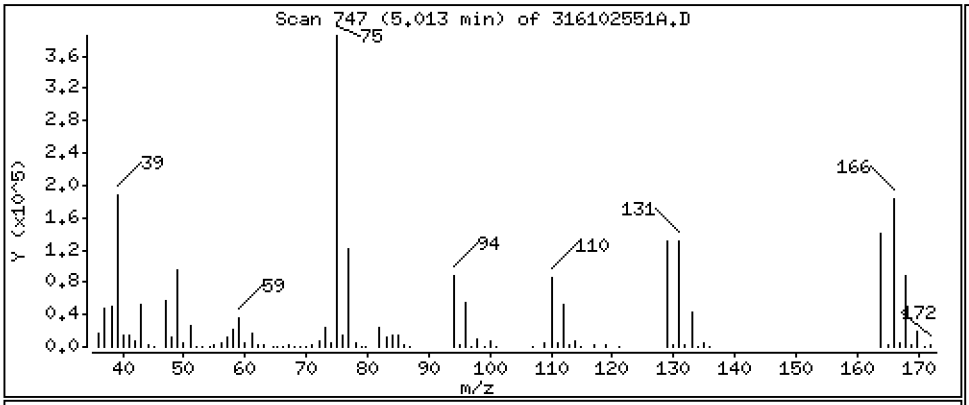
Client ID: Instrument: ms03.i

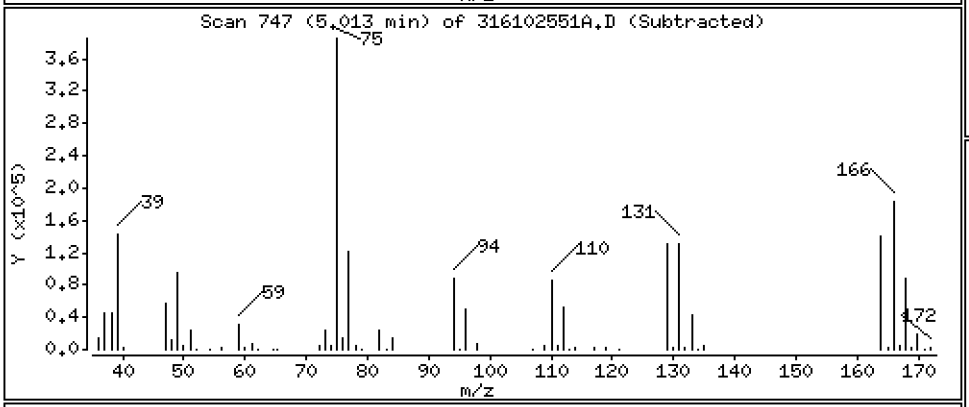
Sample Info: 1800;;1;2;4;;;

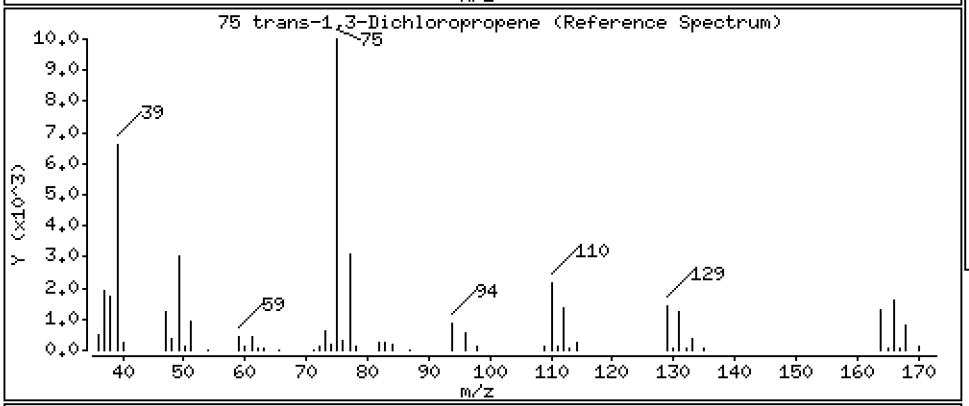
Purge Volume: 5.0 Operator: CJG

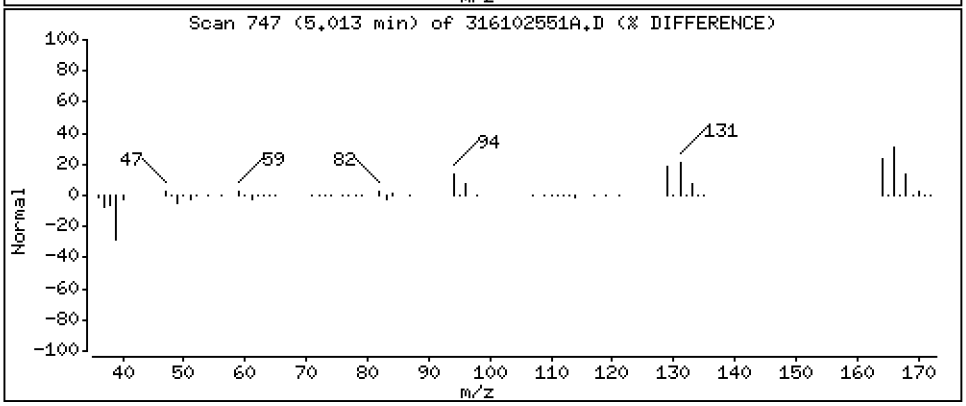
Column phase: DB-VRX Column diameter: 0.25

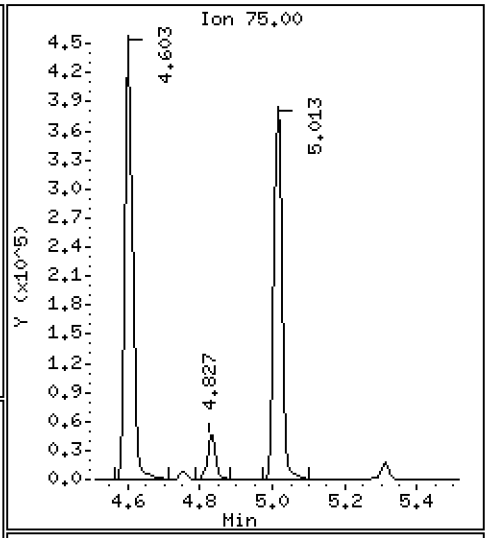
75 trans-1,3-Dichloropropene Concentration: 50.5485 ug/L

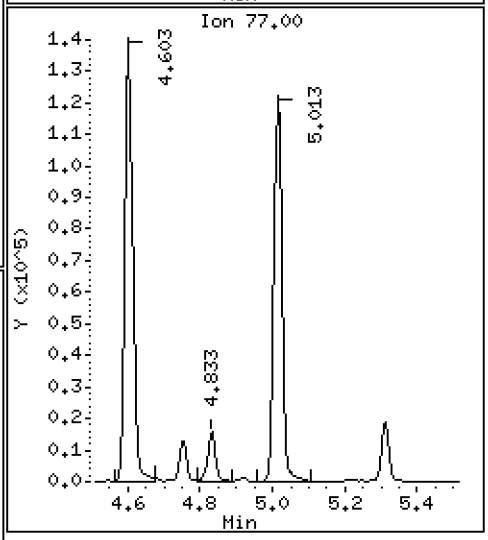












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 79

Date : 25-OCT-2016 21:59

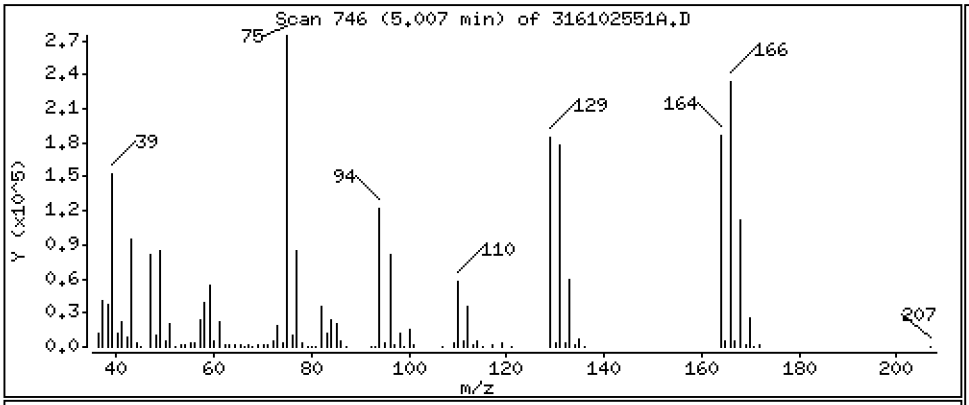
Client ID: Instrument: ms03.i

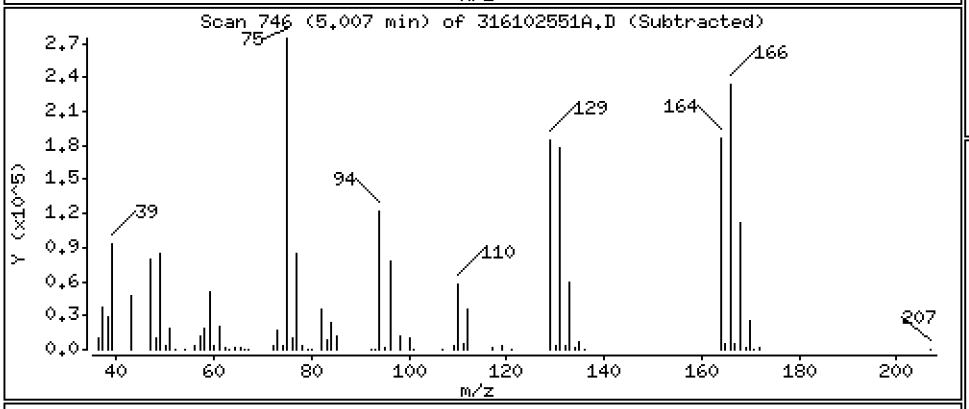
Sample Info: 1800;;1;2;4;;;

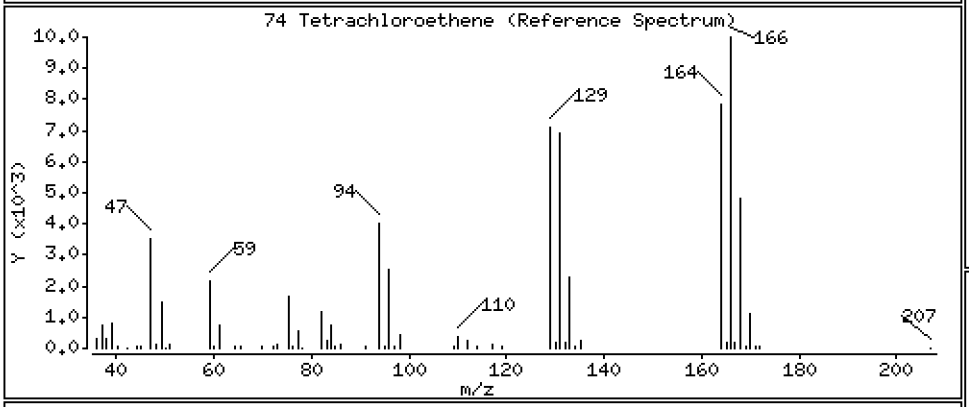
Purge Volume: 5.0 Operator: CJG

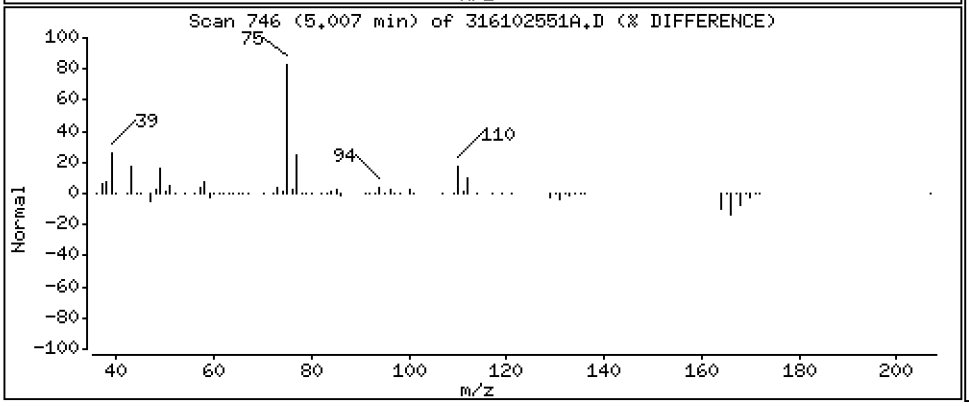
Column phase: DB-VRX Column diameter: 0.25

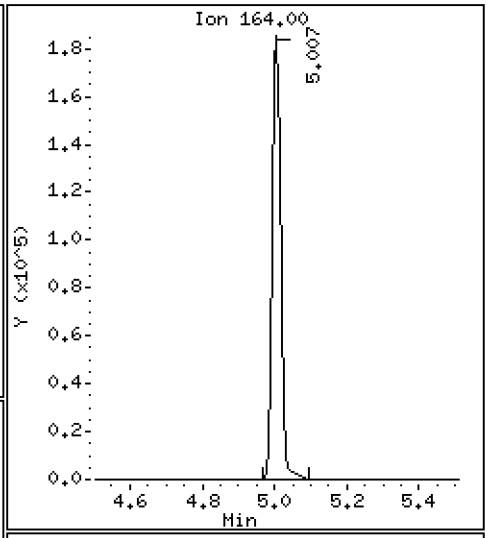
74 Tetrachloroethene Concentration: 50.8893 ug/L

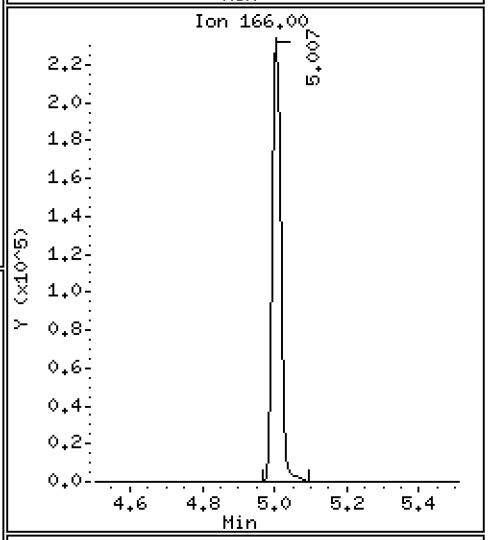


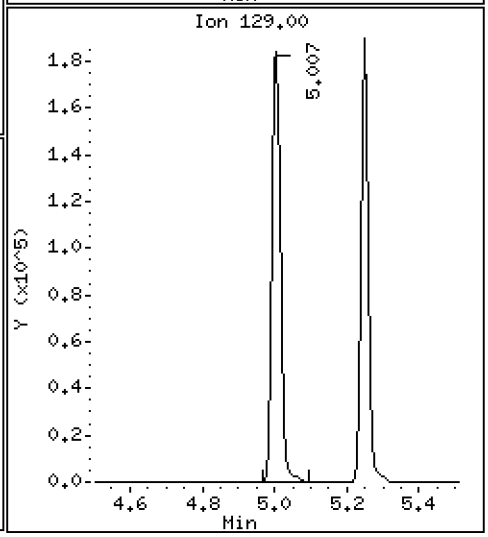












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 80

Date : 25-OCT-2016 21:59

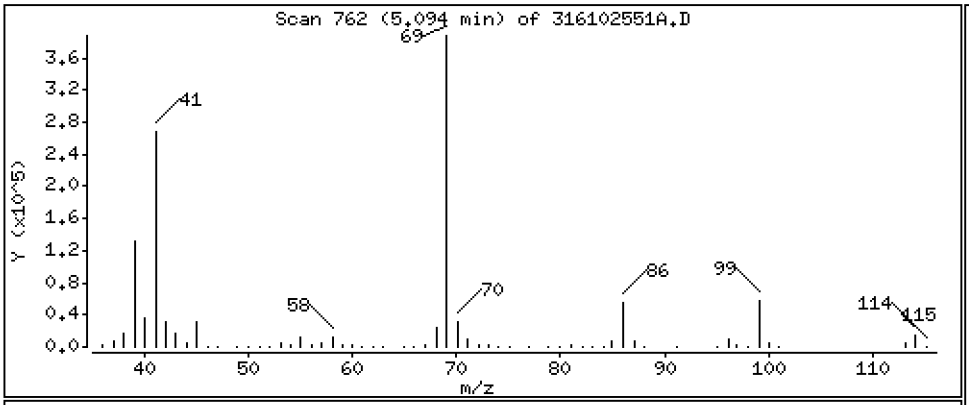
Client ID: Instrument: ms03.i

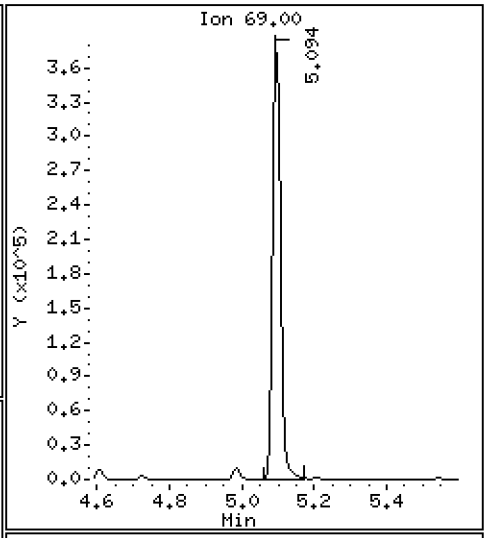
Sample Info: 1800;;1;2;4;;;

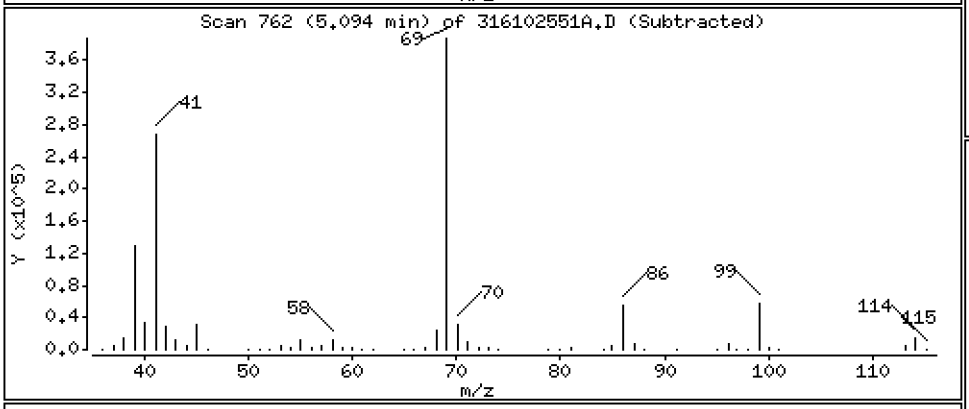
Purge Volume: 5.0 Operator: CJG

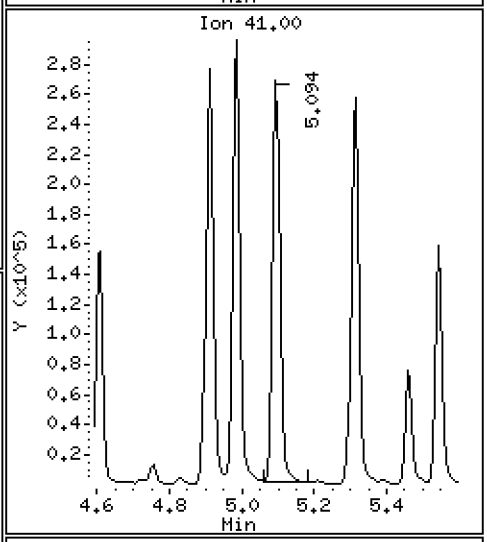
Column phase: DB-VRX Column diameter: 0.25

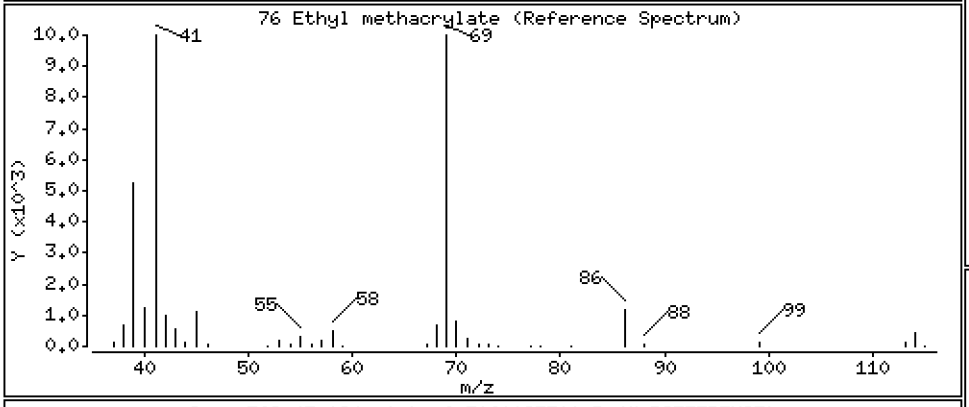
76 Ethyl methacrylate Concentration: 51.5897 ug/L

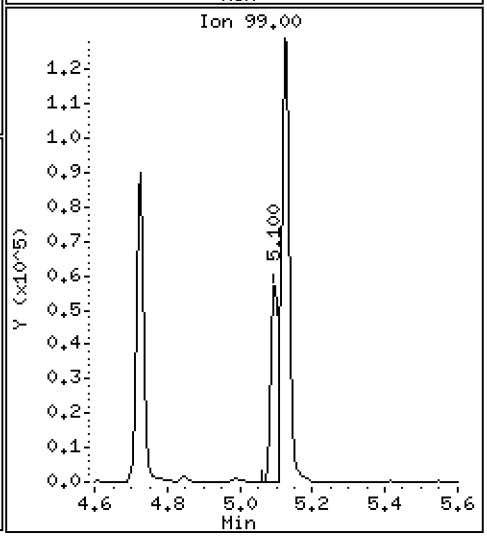


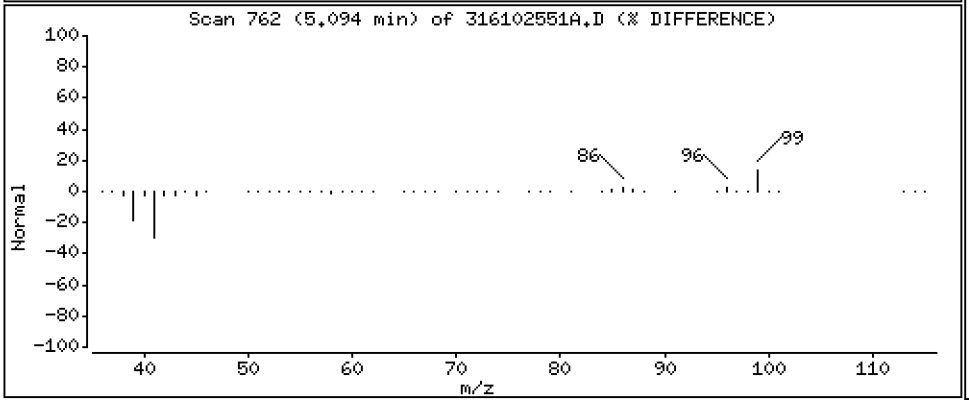












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 81

Date : 25-OCT-2016 21:59

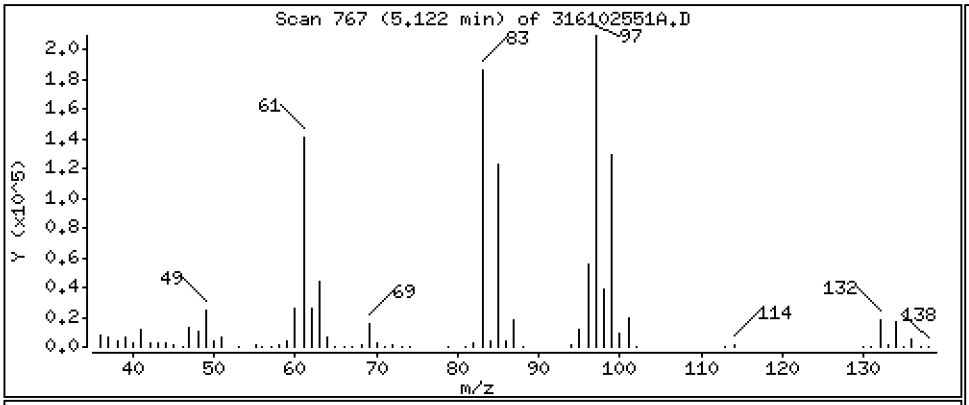
Client ID: Instrument: ms03.i

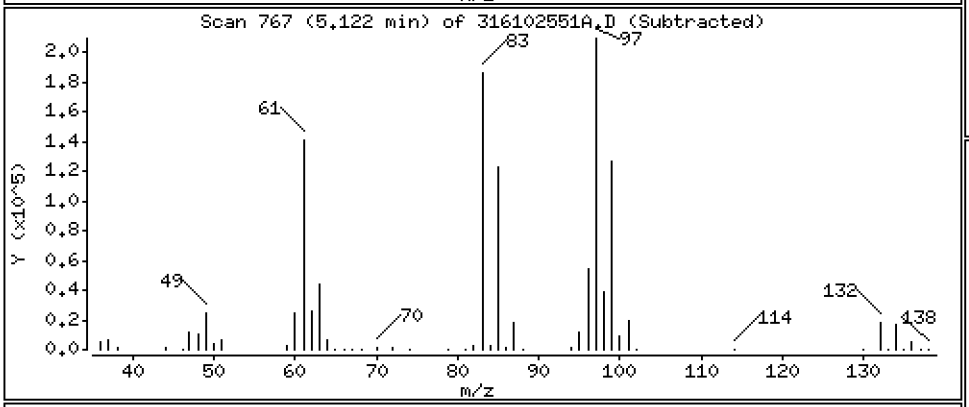
Sample Info: 1800;;1;2;4;;;

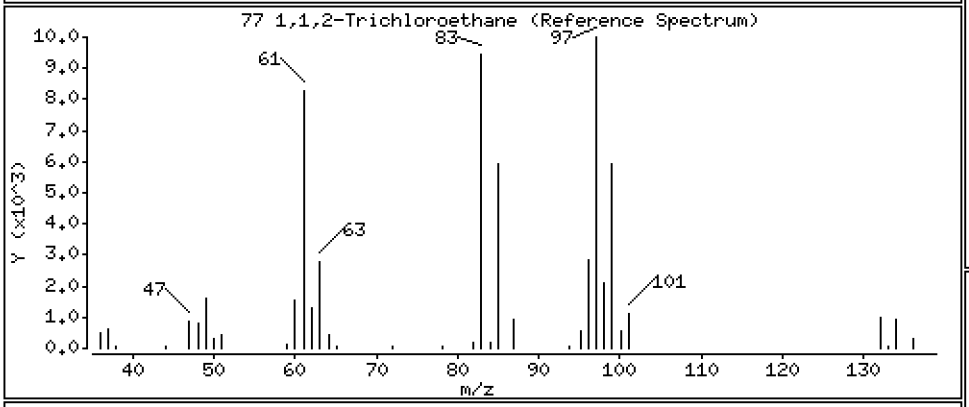
Purge Volume: 5.0 Operator: CJG

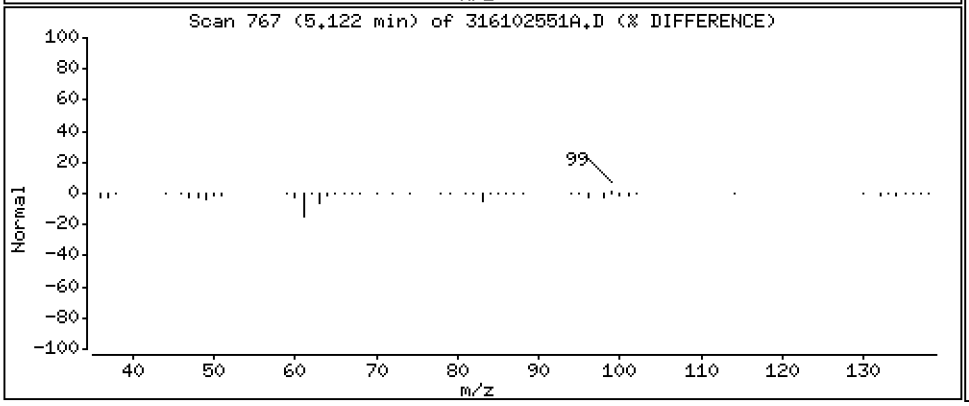
Column phase: DB-VRX Column diameter: 0.25

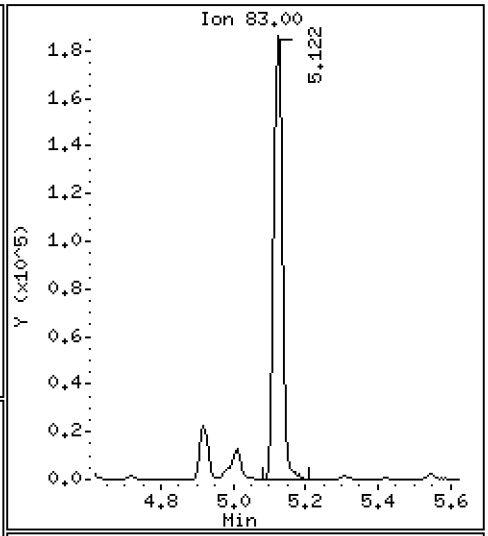
77 1,1,2-Trichloroethane Concentration: 44.2848 ug/L

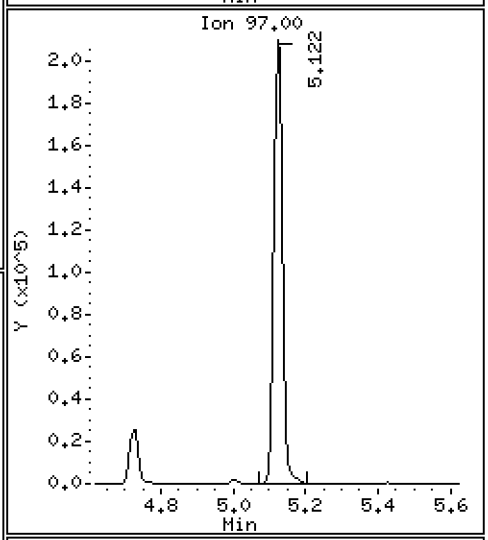


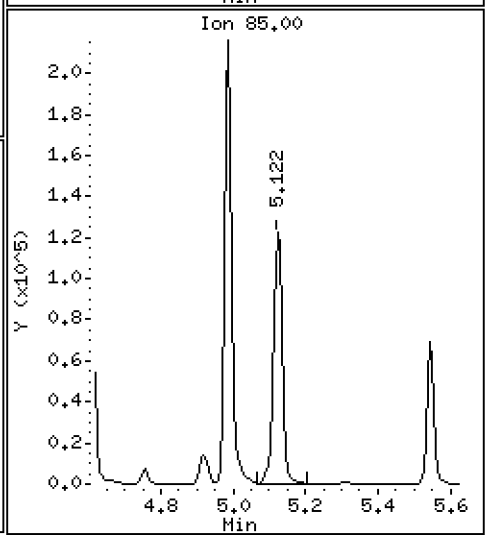












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 82

Date : 25-OCT-2016 21:59

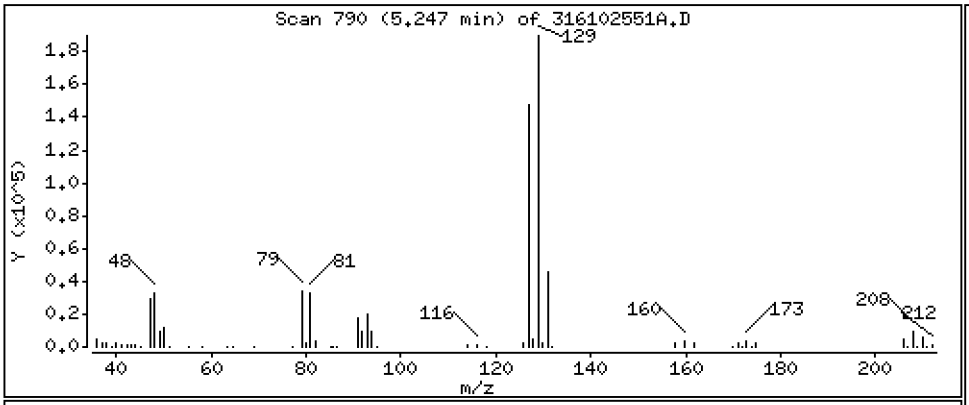
Client ID: Instrument: ms03.i

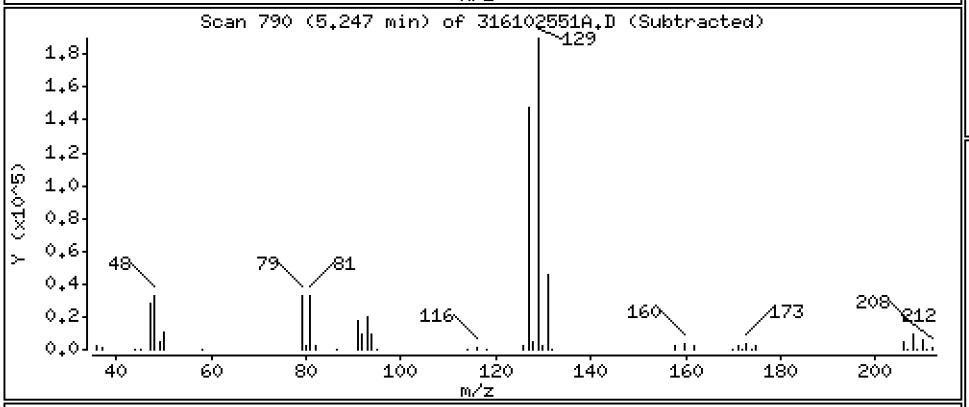
Sample Info: 1800;;1;2;4;;;

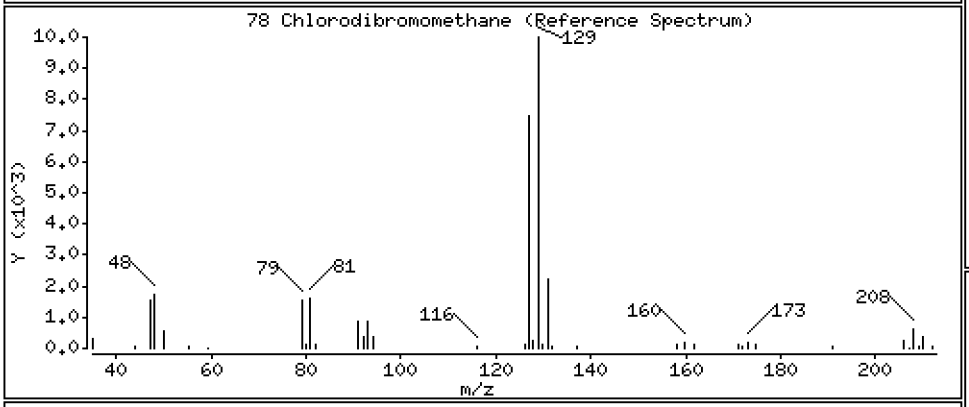
Purge Volume: 5.0 Operator: CJG

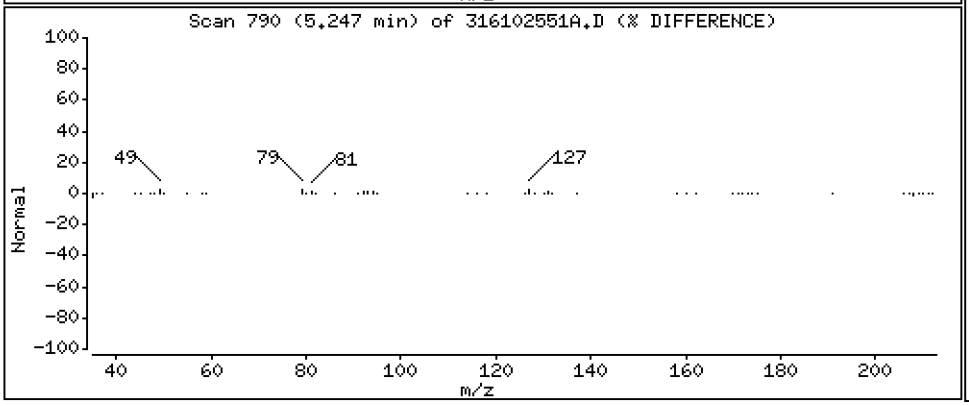
Column phase: DB-VRX Column diameter: 0.25

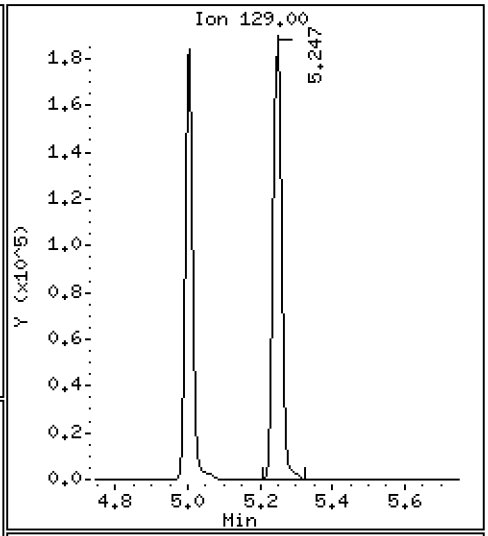
78 Chlorodibromomethane Concentration: 48.7135 ug/L

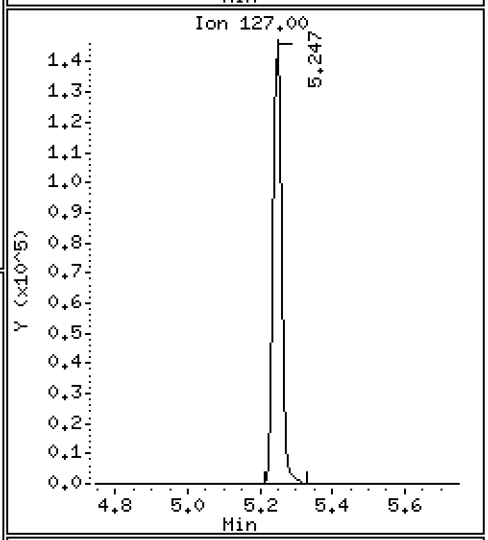


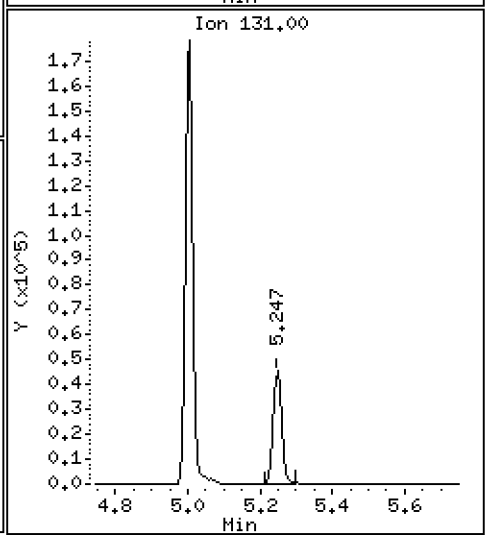












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 83

Date : 25-OCT-2016 21:59

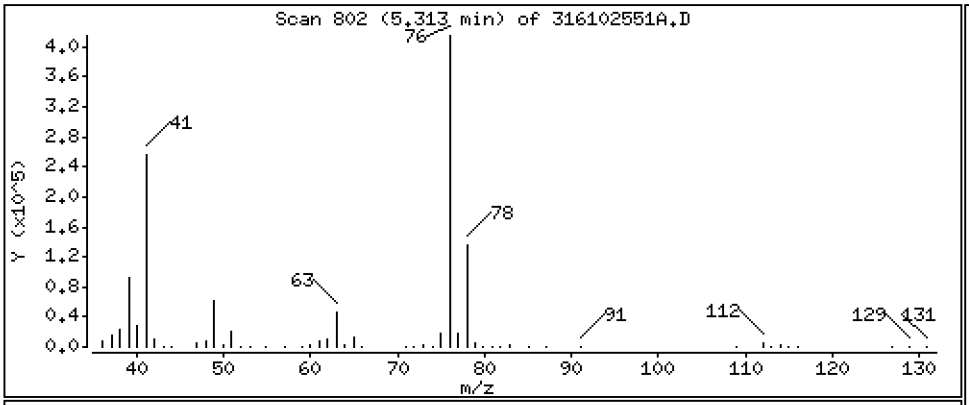
Client ID: Instrument: ms03.i

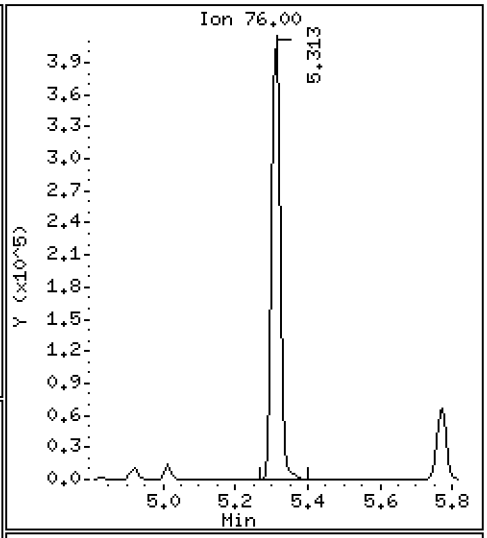
Sample Info: 1800;;1;2;4;;;

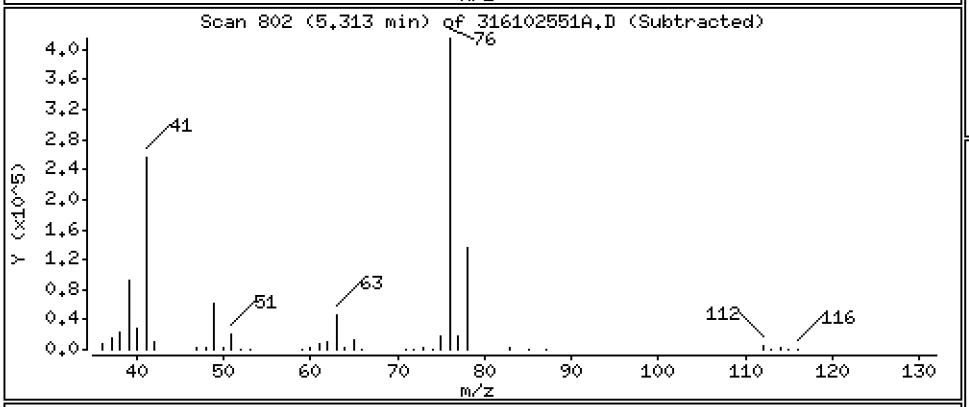
Purge Volume: 5.0 Operator: CJG

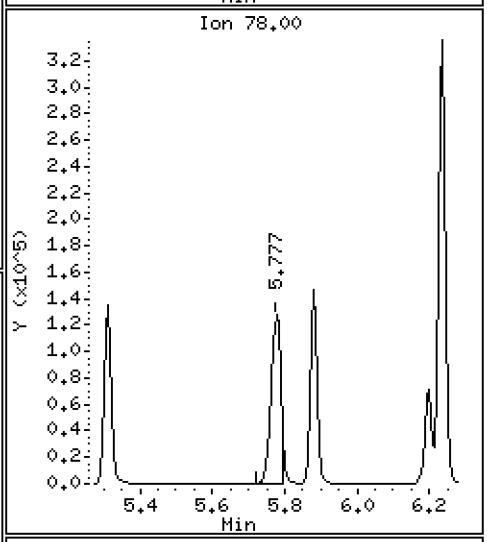
Column phase: DB-VRX Column diameter: 0.25

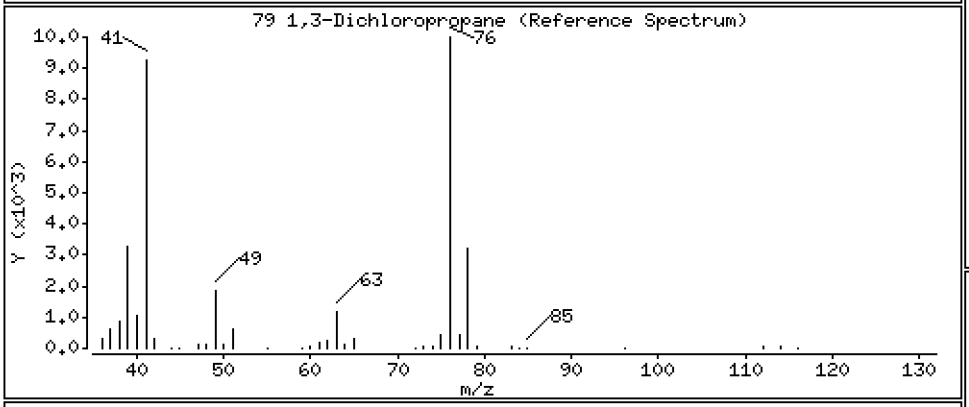
79 1,3-Dichloropropane Concentration: 44.4434 ug/L

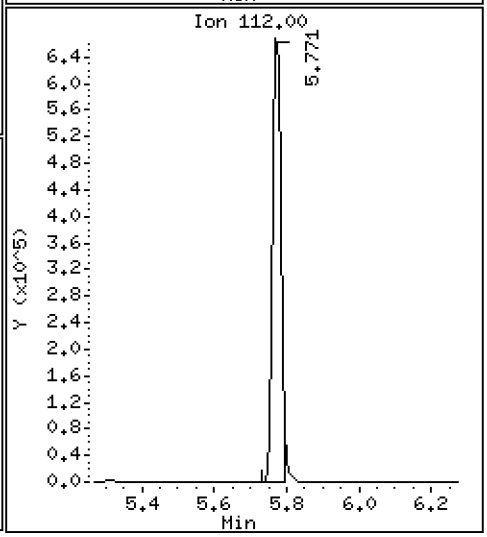


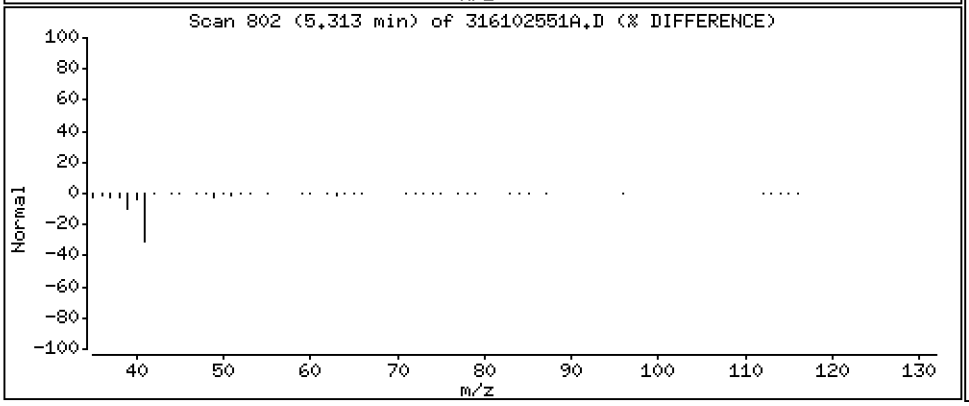












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 84

Date : 25-OCT-2016 21:59

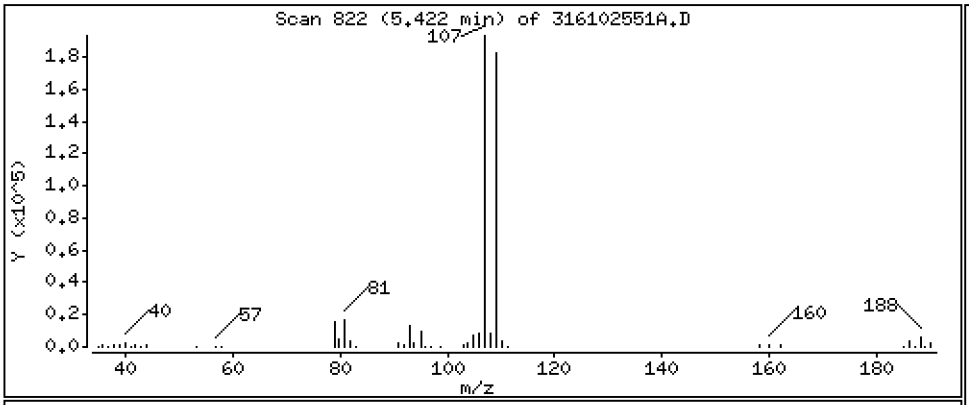
Client ID: Instrument: ms03.i

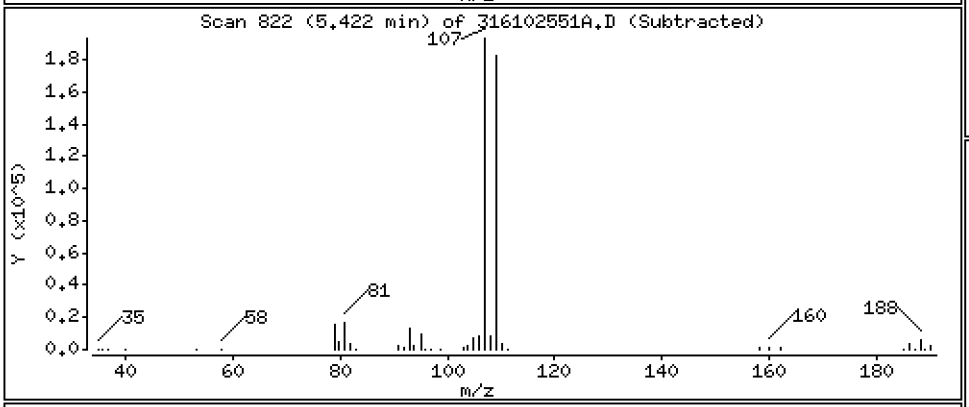
Sample Info: 1800;;1;2;4;;;

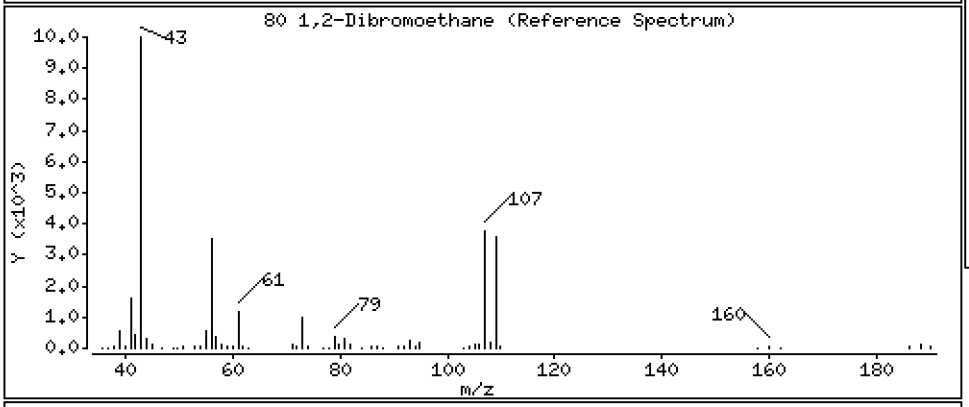
Purge Volume: 5.0 Operator: CJG

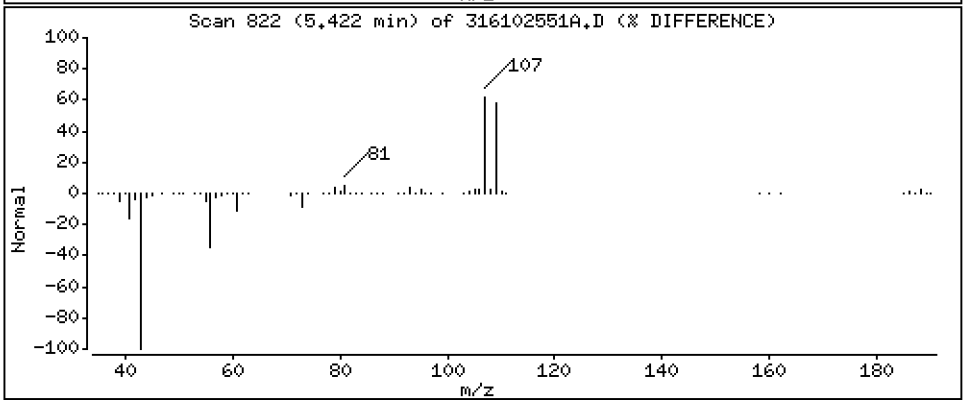
Column phase: DB-VRX Column diameter: 0.25

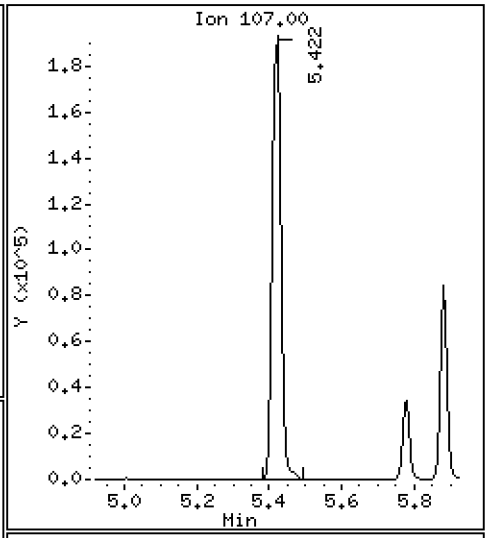
80 1,2-Dibromoethane Concentration: 45.5459 ug/L

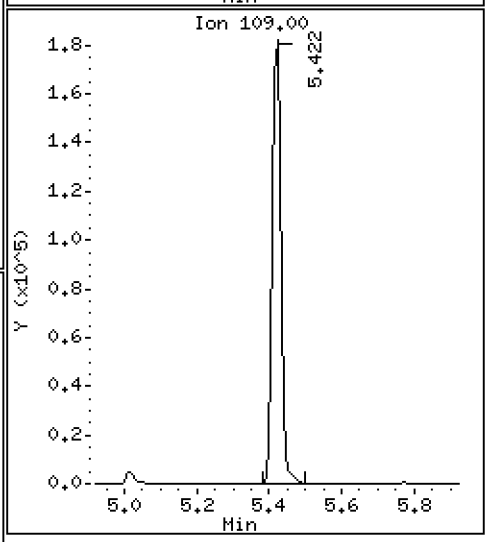












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 85

Date : 25-OCT-2016 21:59

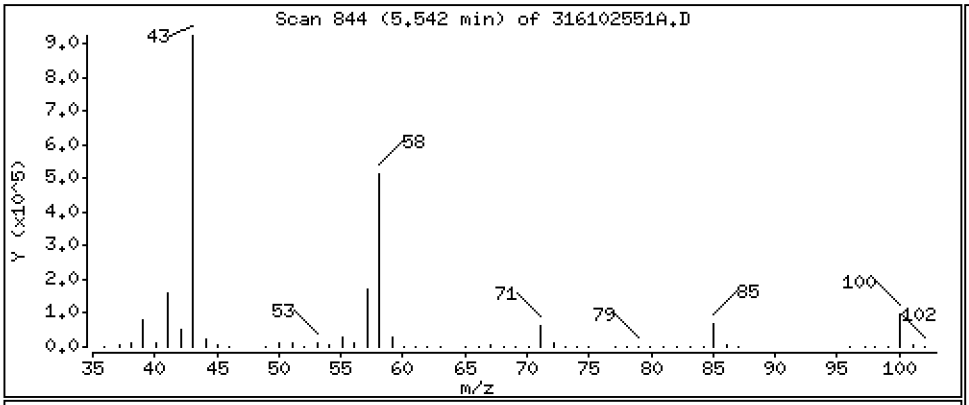
Client ID: Instrument: ms03.i

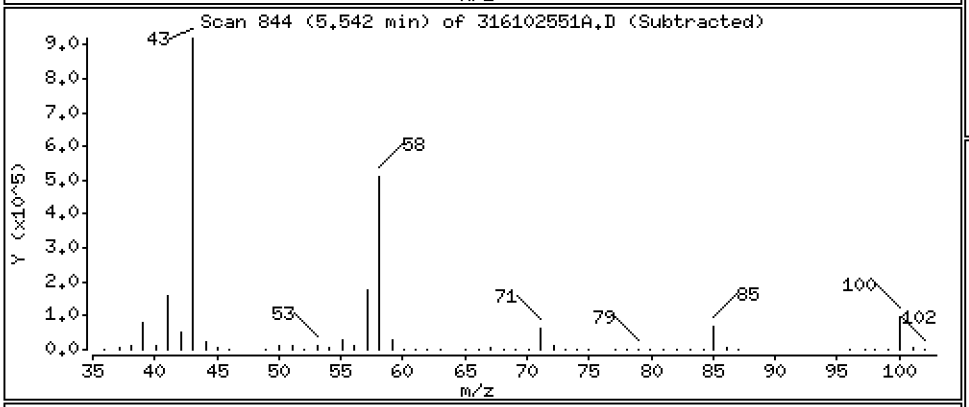
Sample Info: 1800;;1;2;4;;;

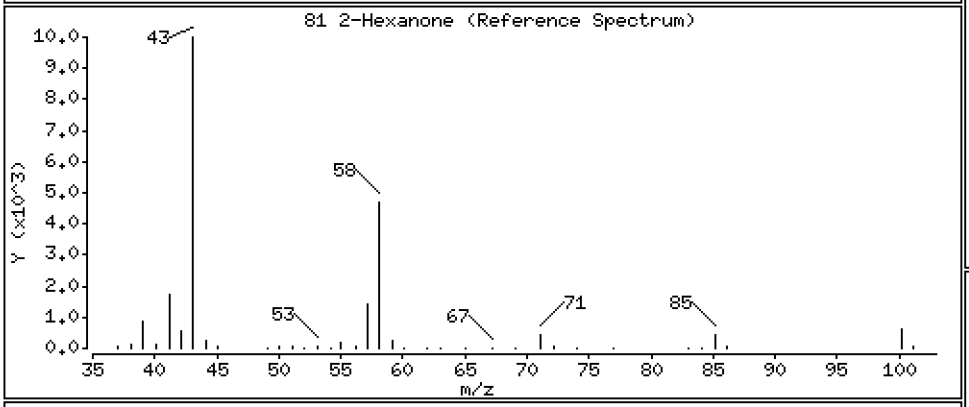
Purge Volume: 5.0 Operator: CJG

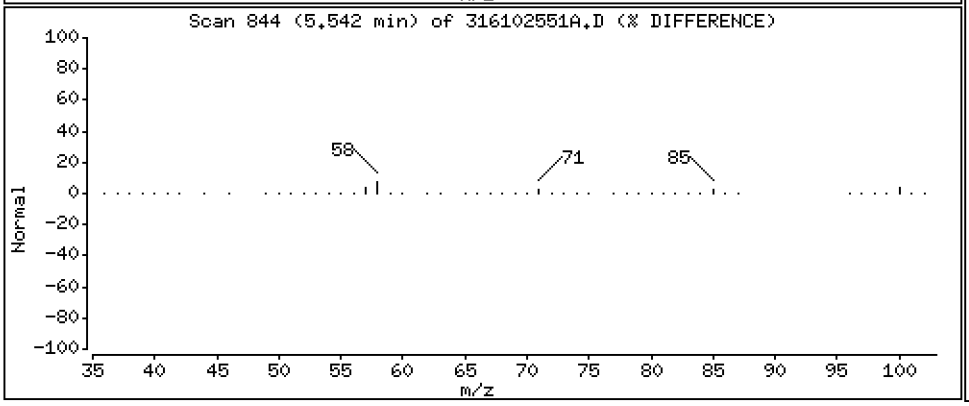
Column phase: DB-VRX Column diameter: 0.25

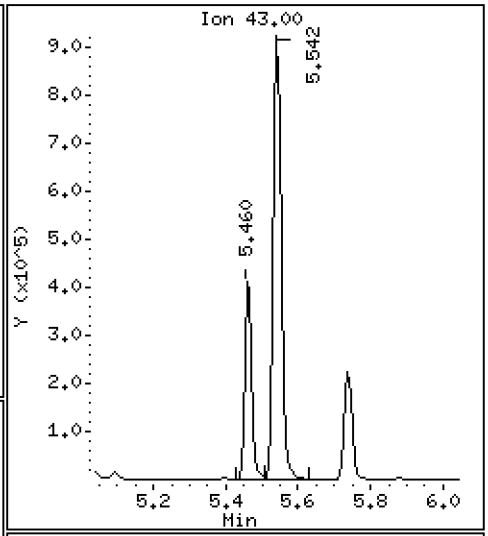
81 2-Hexanone Concentration: 264.322 ug/L

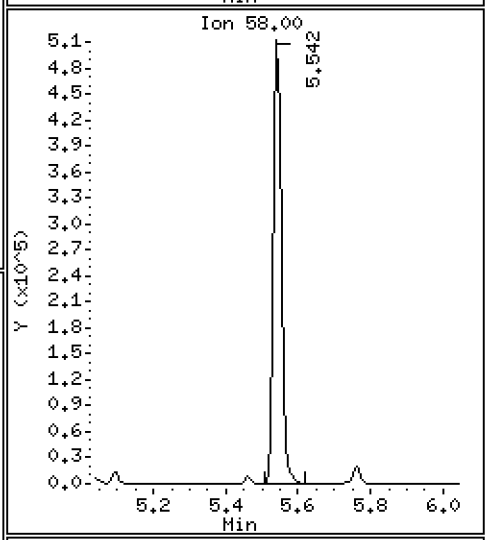


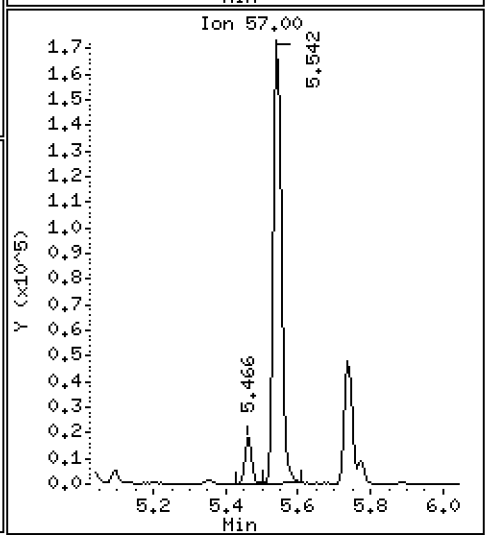












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 86

Date : 25-OCT-2016 21:59

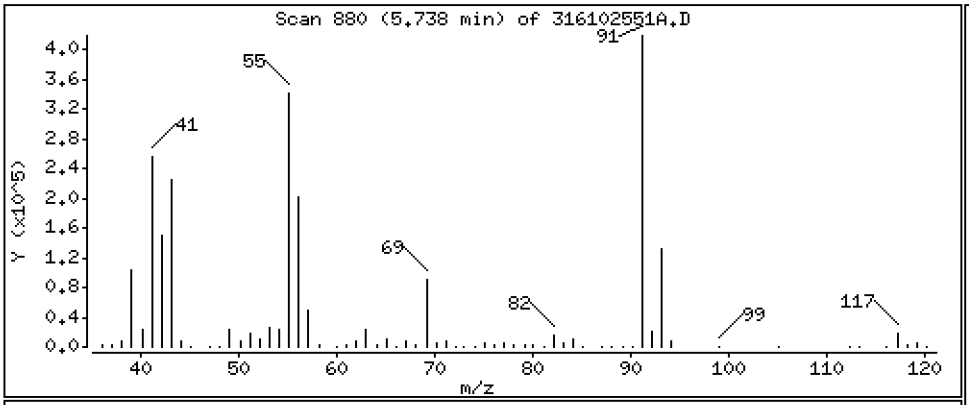
Client ID: Instrument: ms03.i

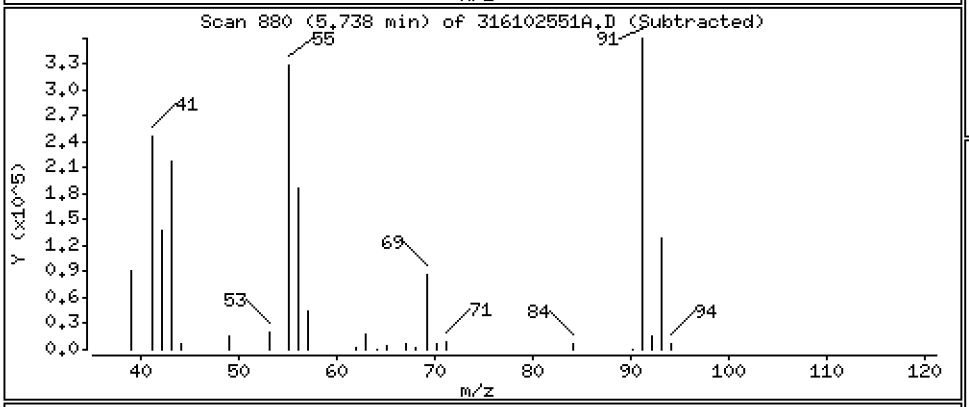
Sample Info: 1800;;1;2;4;;;

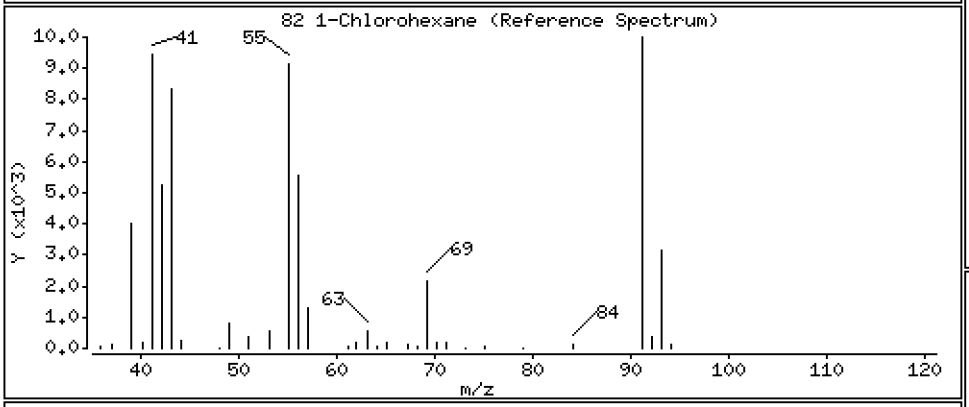
Purge Volume: 5.0 Operator: CJG

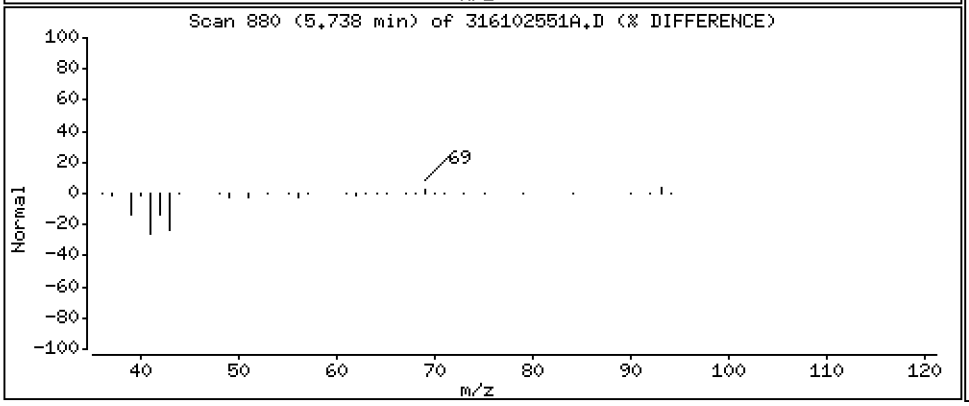
Column phase: DB-VRX Column diameter: 0.25

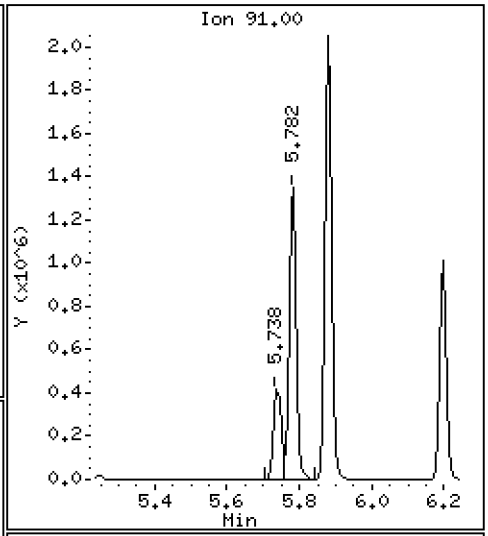
82 1-Chlorohexane Concentration: 48.8791 ug/L

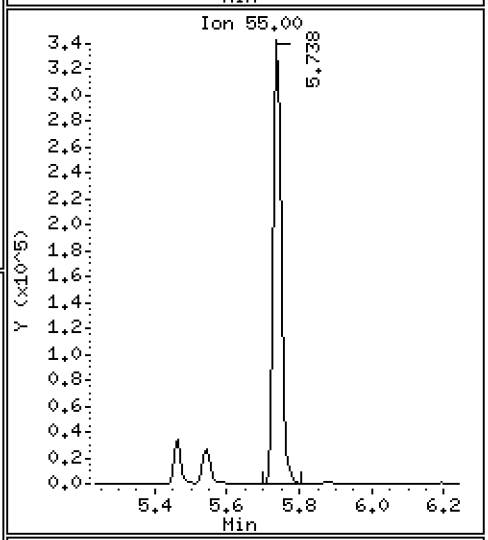


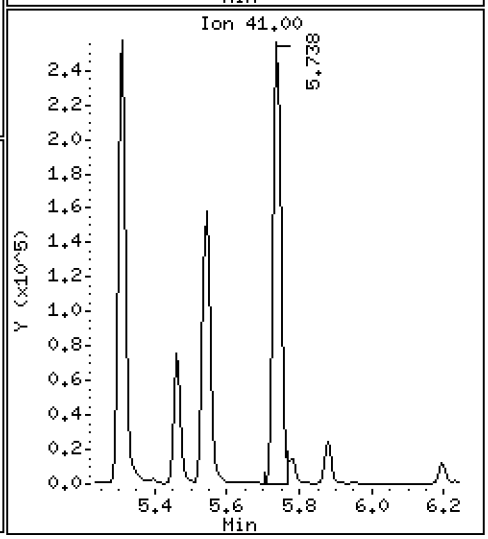












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 87

Date : 25-OCT-2016 21:59

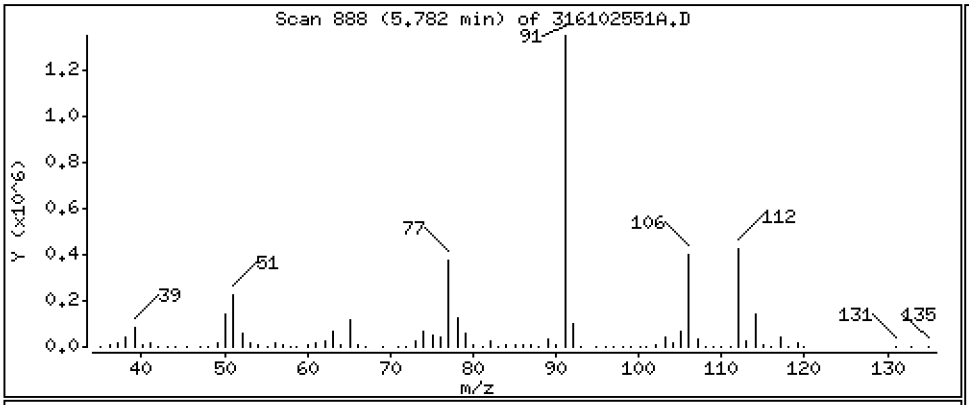
Client ID: Instrument: ms03.i

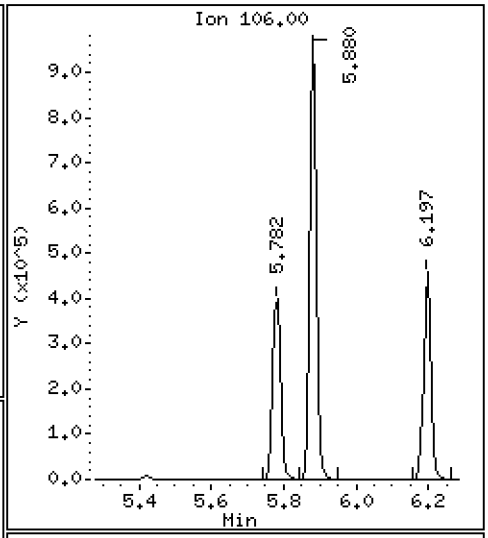
Sample Info: 1800;;1;2;4;;;

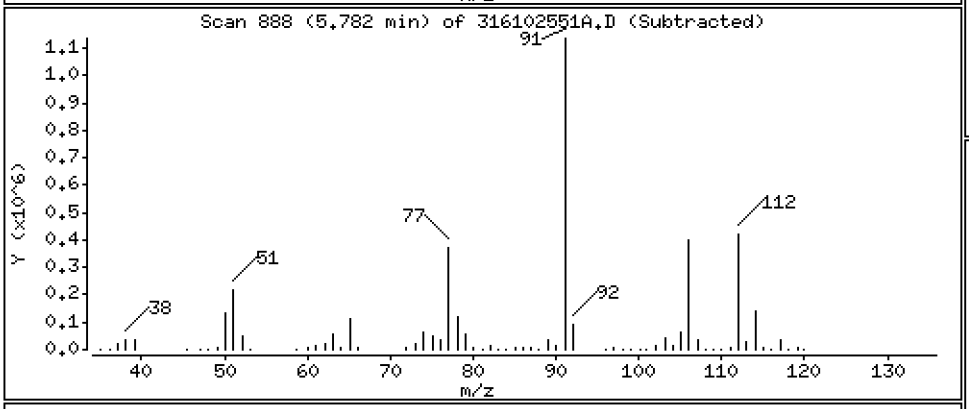
Purge Volume: 5.0 Operator: CJG

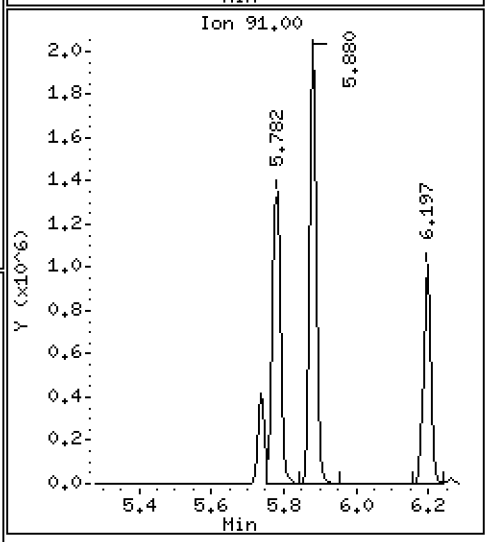
Column phase: DB-VRX Column diameter: 0.25

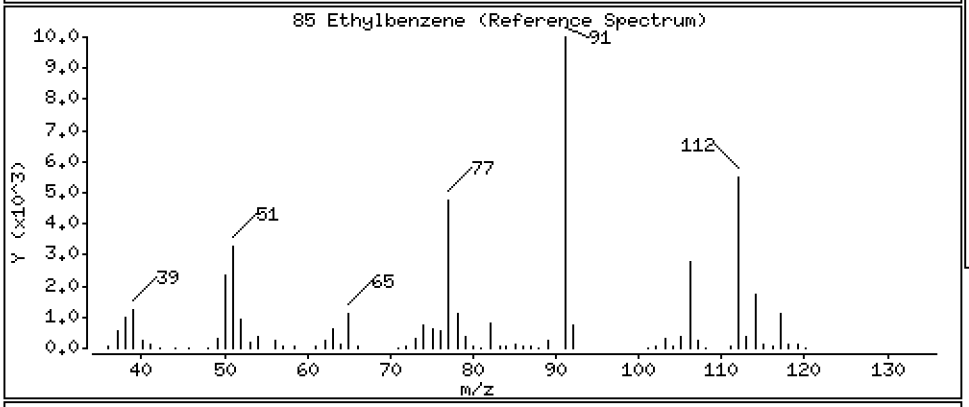
85 Ethylbenzene Concentration: 43.9074 ug/L

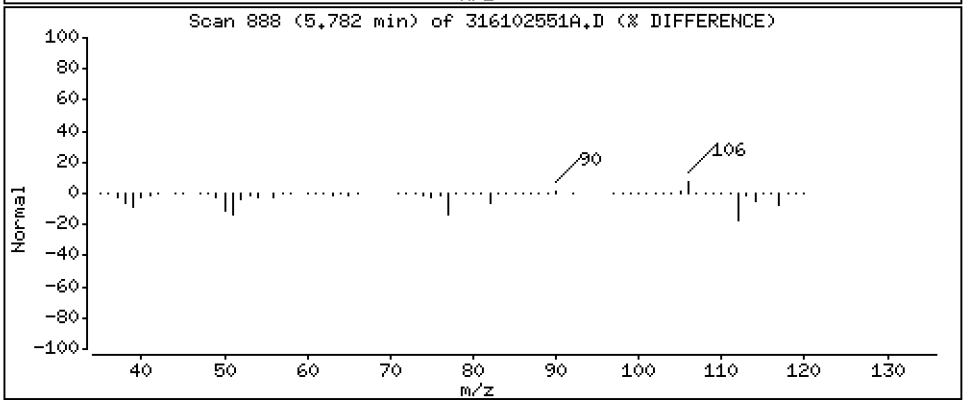












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 88

Date : 25-OCT-2016 21:59

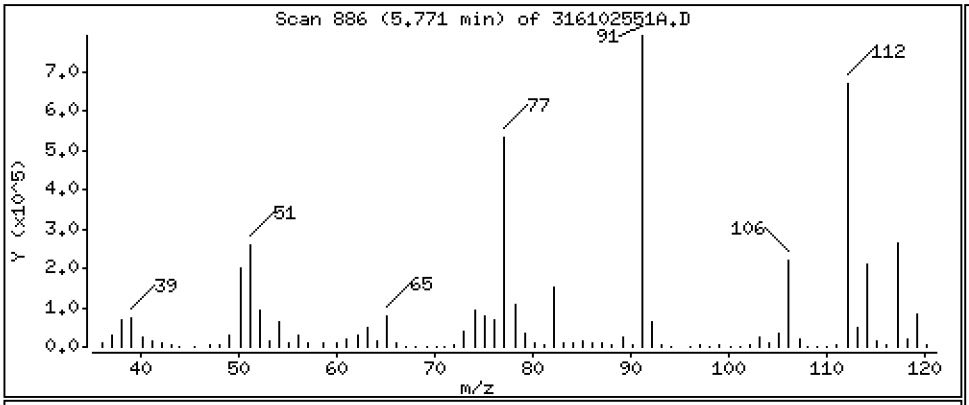
Client ID: Instrument: ms03.i

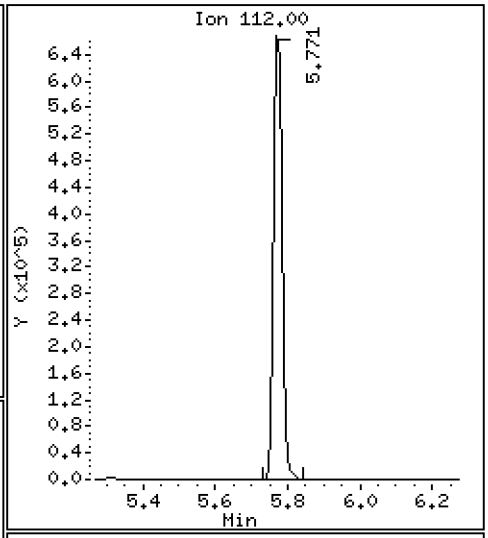
Sample Info: 1800;;1;2;4;;;

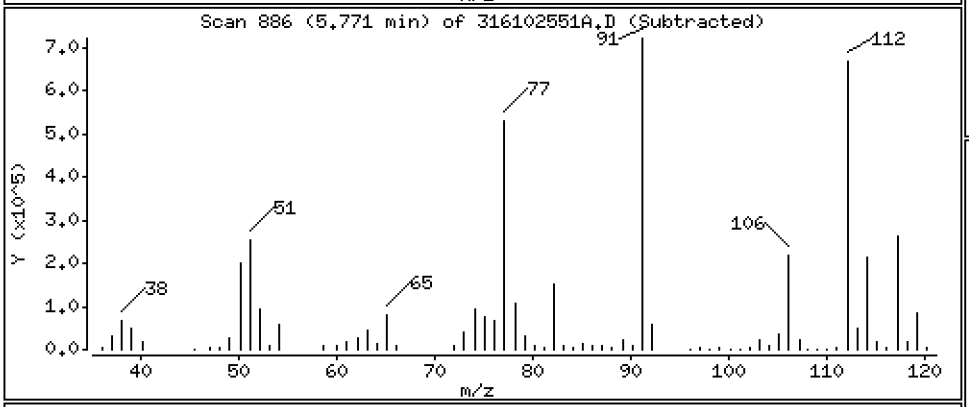
Purge Volume: 5.0 Operator: CJG

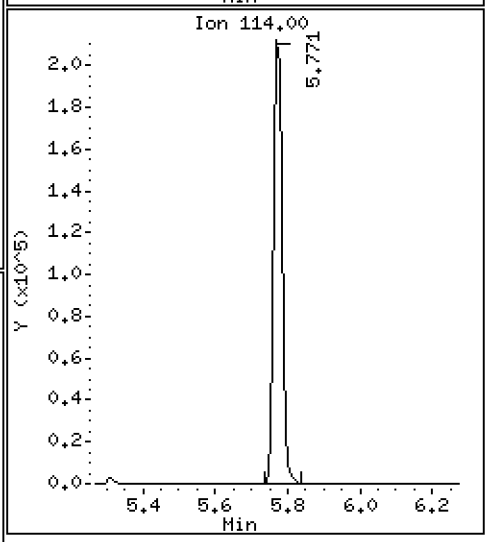
Column phase: DB-VRX Column diameter: 0.25

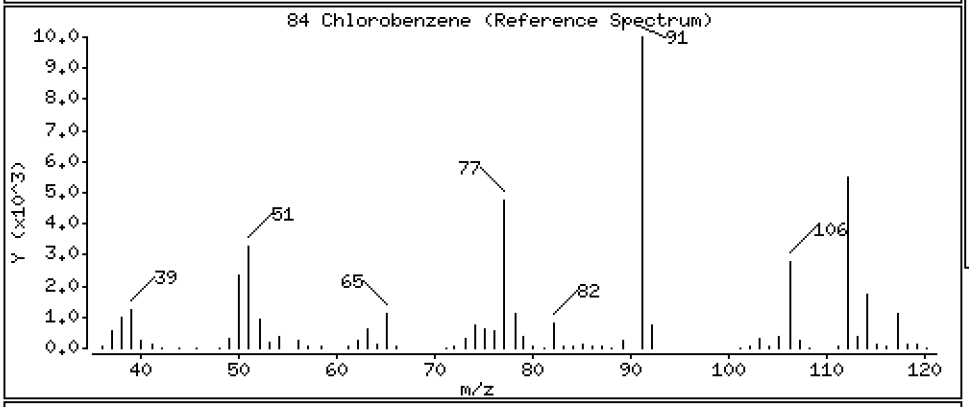
84 Chlorobenzene Concentration: 42.5865 ug/L

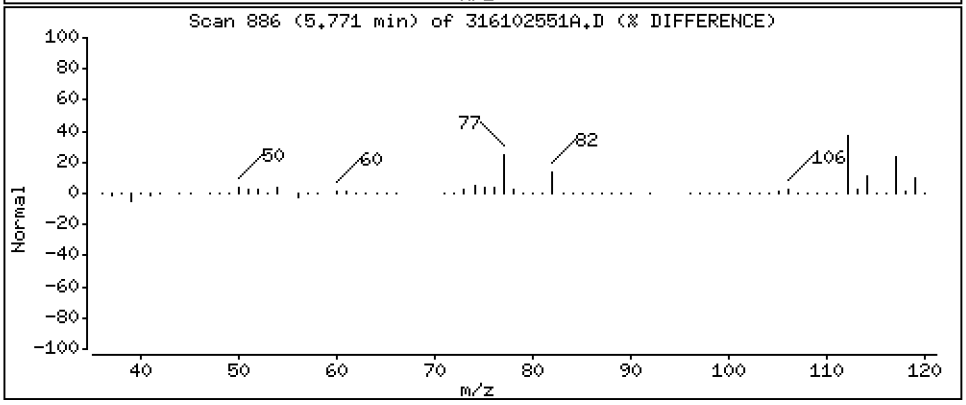












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 89

Date : 25-OCT-2016 21:59

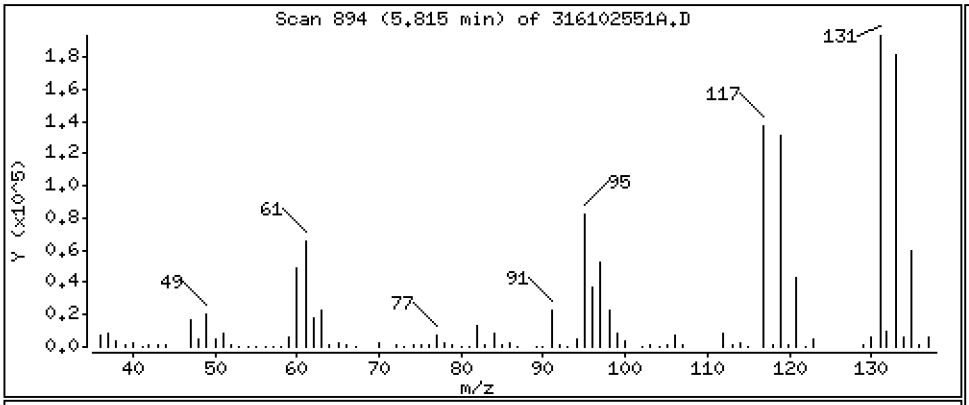
Client ID: Instrument: ms03.i

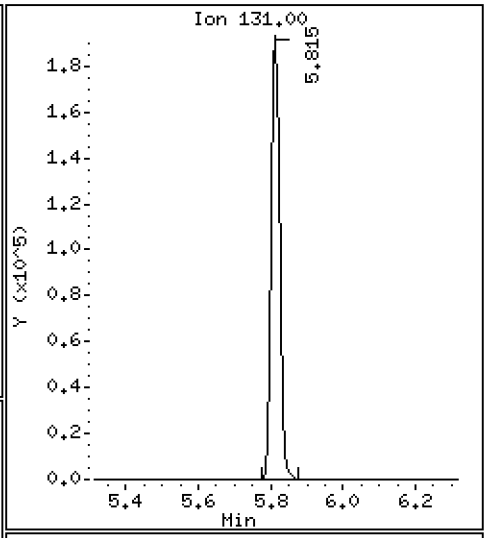
Sample Info: 1800;;1;2;4;;;

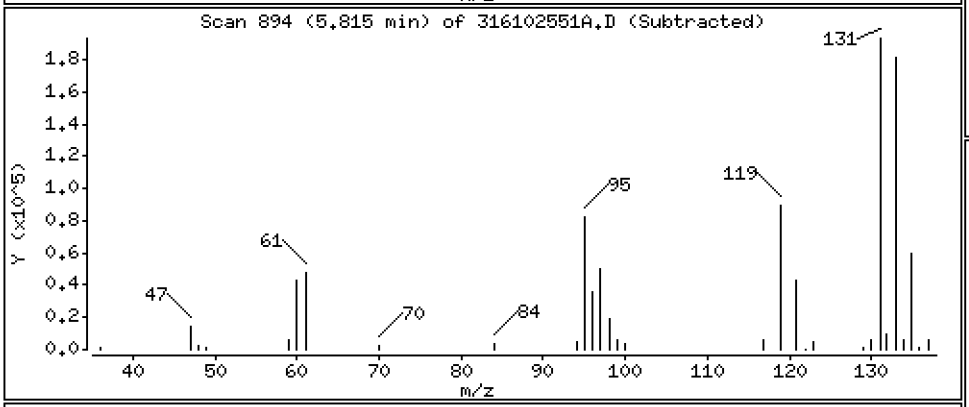
Purge Volume: 5.0 Operator: CJG

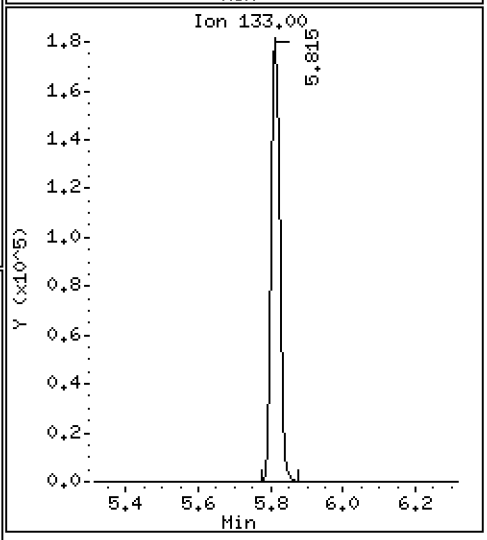
Column phase: DB-VRX Column diameter: 0.25

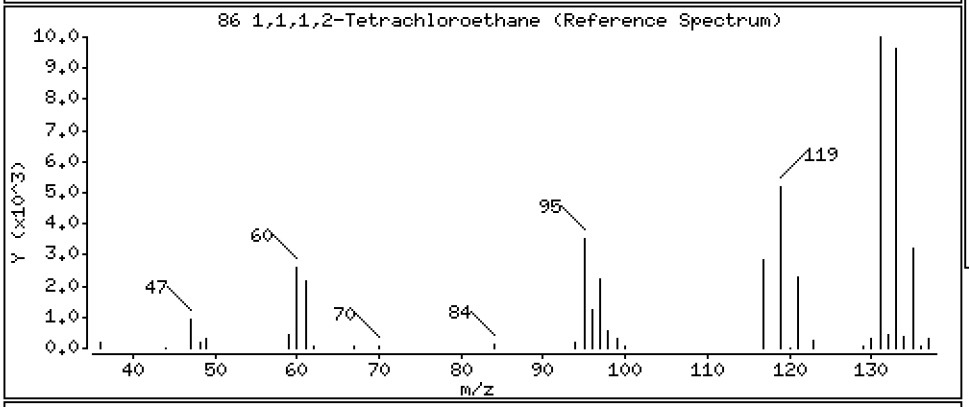
86 1,1,1,2-Tetrachloroethane Concentration: 47.0893 ug/L

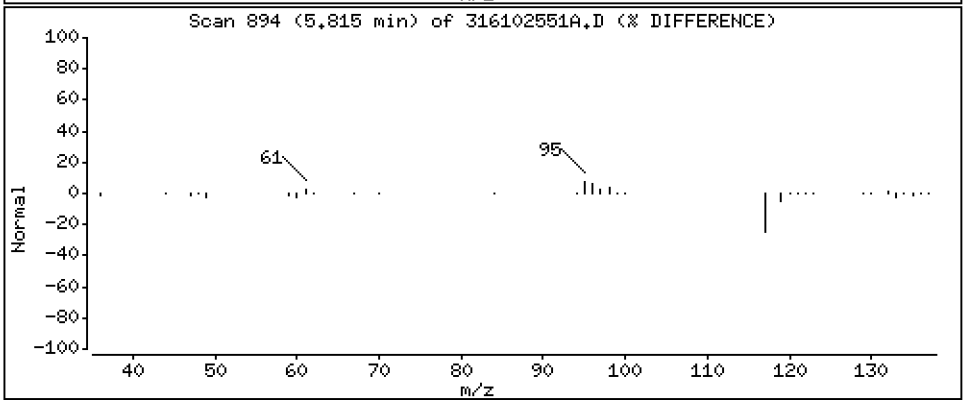












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 90

Date : 25-OCT-2016 21:59

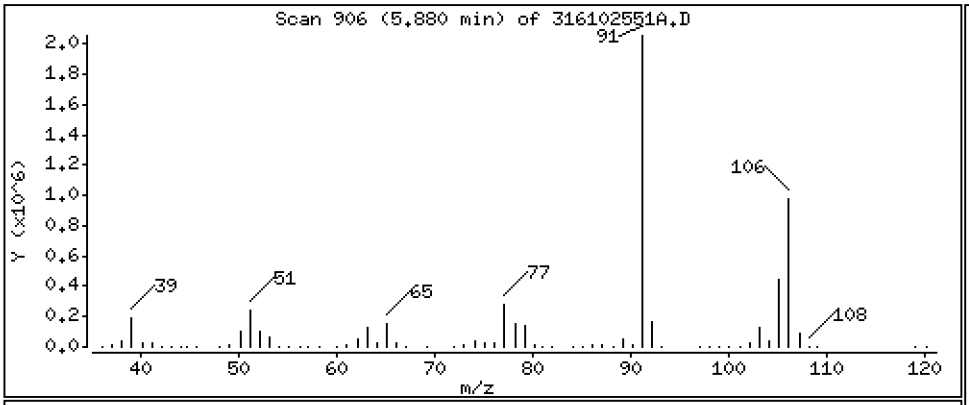
Client ID: Instrument: ms03.i

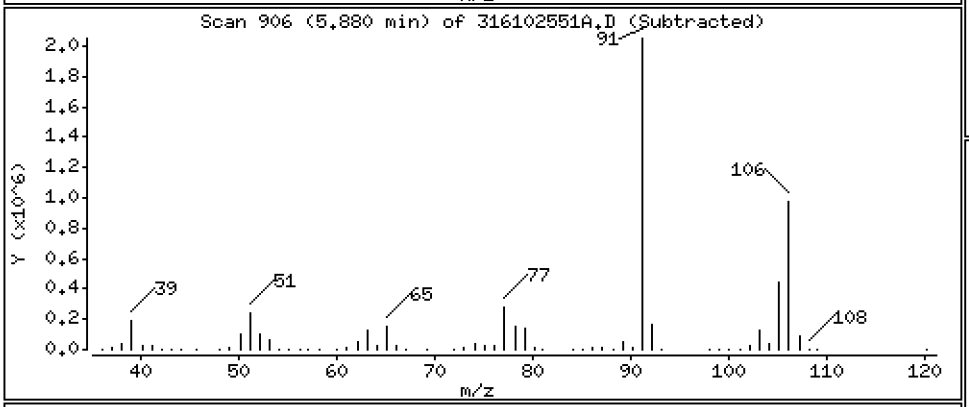
Sample Info: 1800;;1;2;4;;;

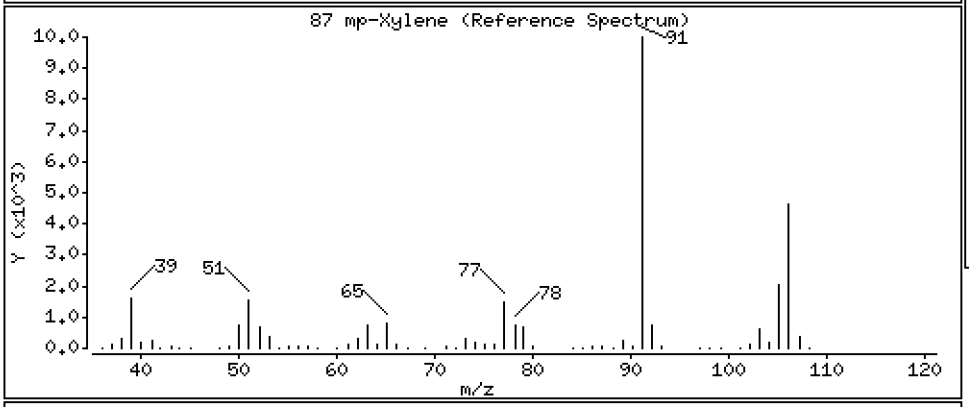
Purge Volume: 5.0 Operator: CJG

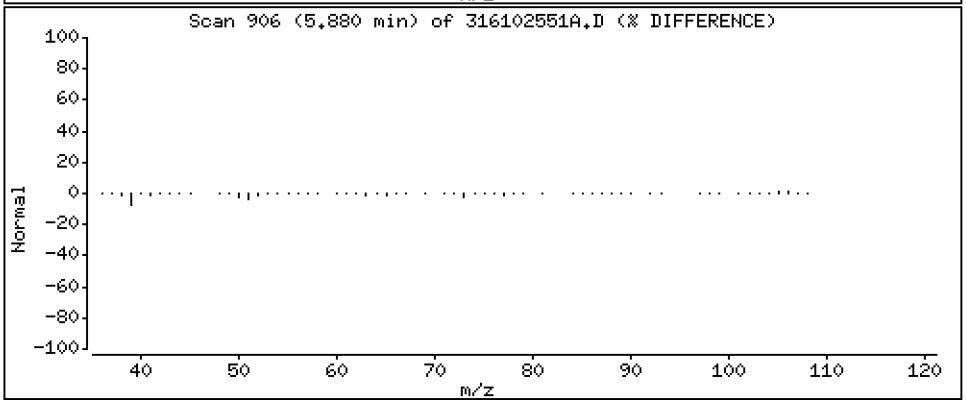
Column phase: DB-VRX Column diameter: 0.25

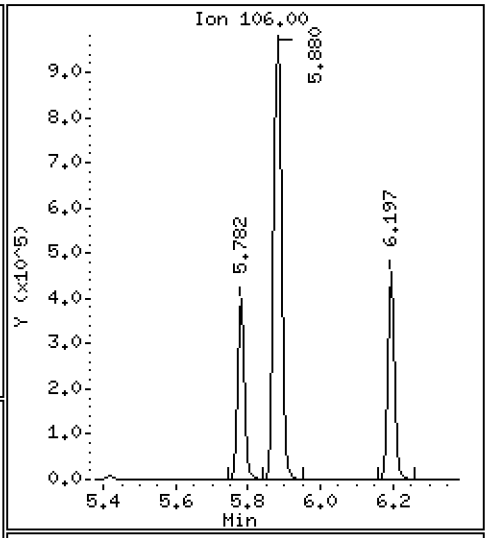
87 mp-Xylene Concentration: 91.1542 ug/L

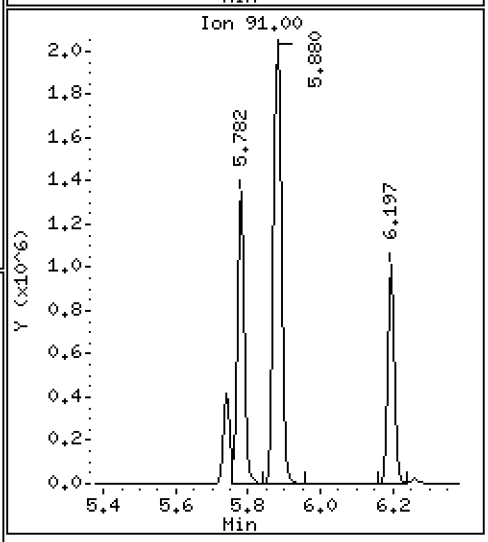












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 91

Date : 25-OCT-2016 21:59

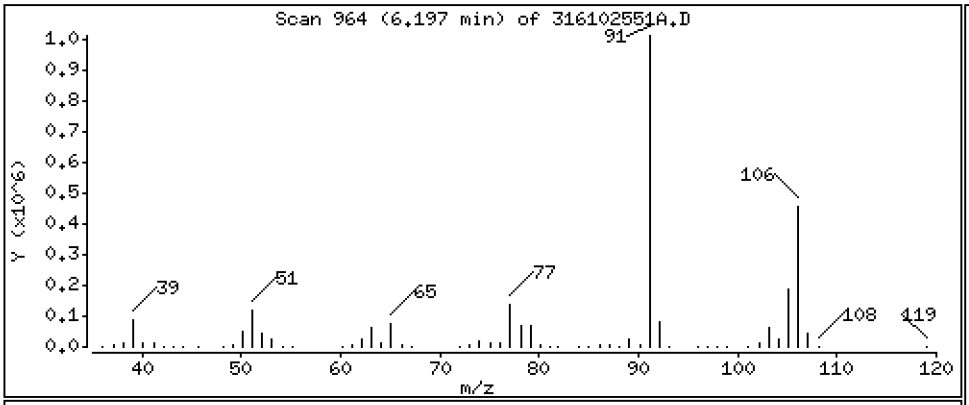
Client ID: Instrument: ms03.i

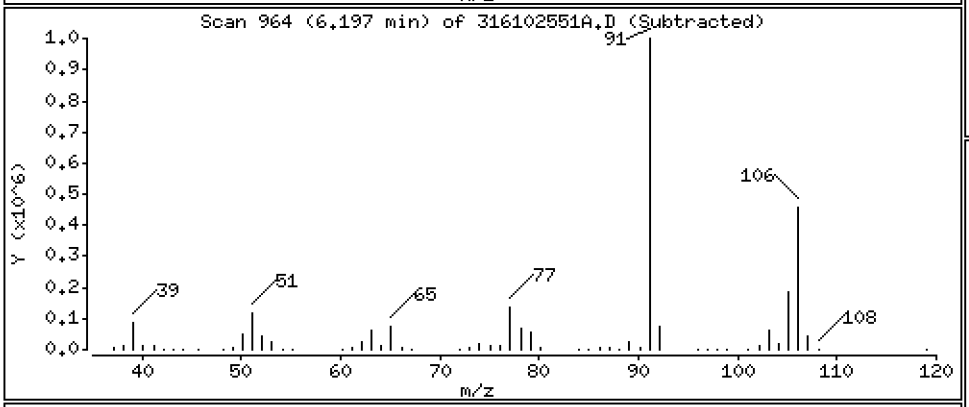
Sample Info: 1800;;1;2;4;;;

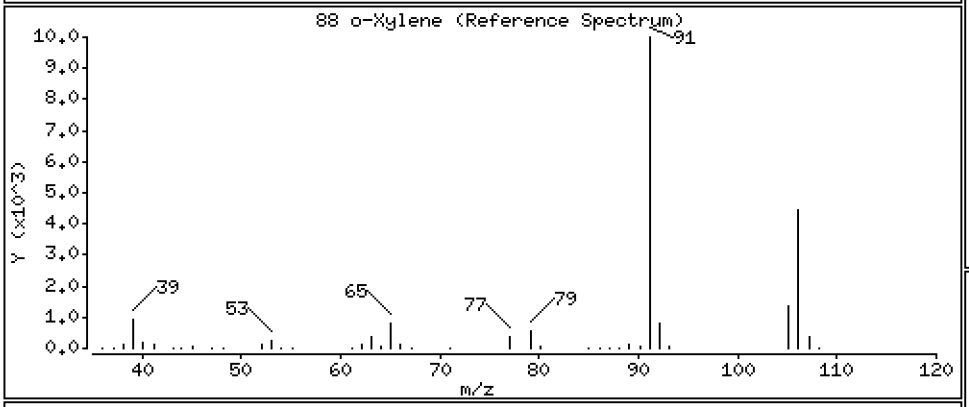
Purge Volume: 5.0 Operator: CJG

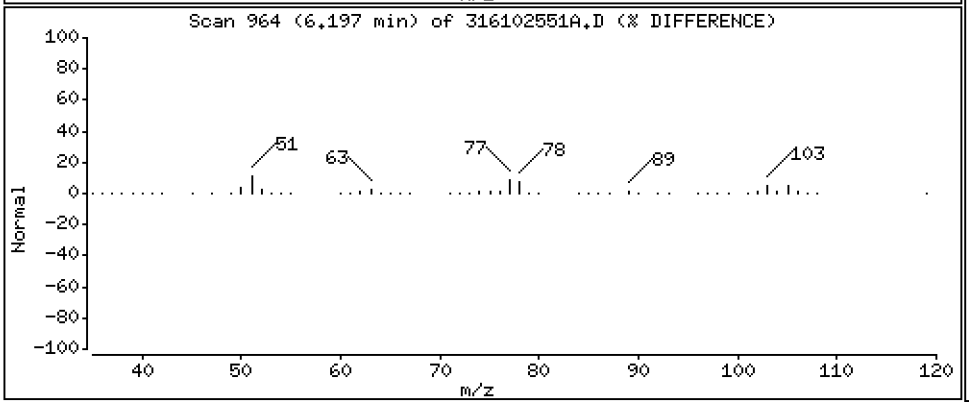
Column phase: DB-VRX Column diameter: 0.25

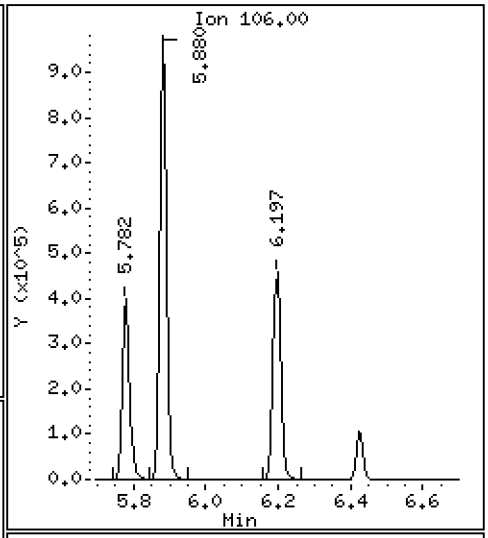
88 o-Xylene Concentration: 47.5245 ug/L

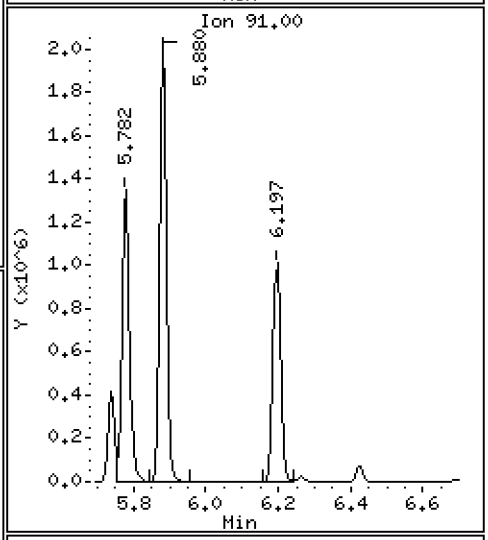


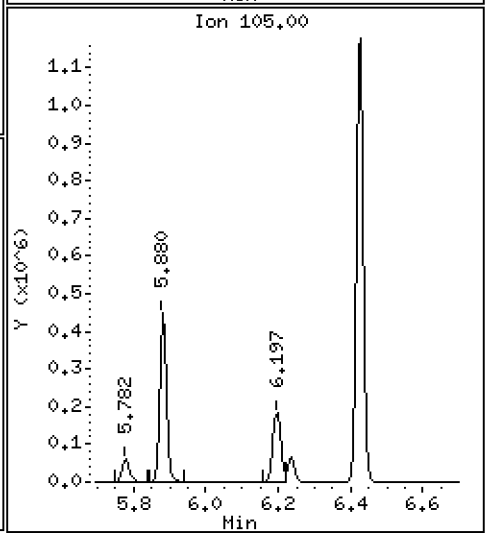












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 92

Date : 25-OCT-2016 21:59

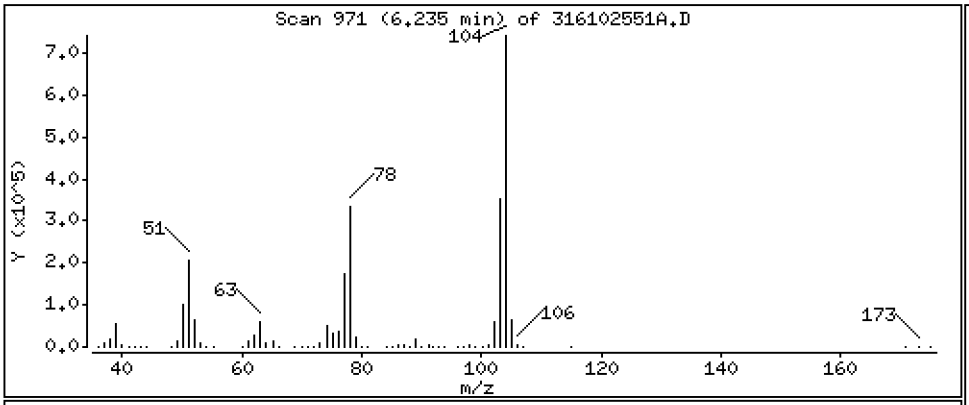
Client ID: Instrument: ms03.i

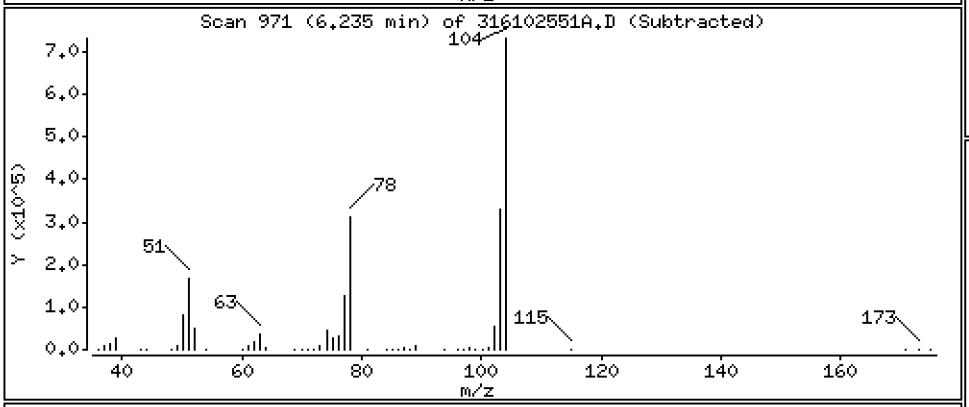
Sample Info: 1800;;1;2;4;;;

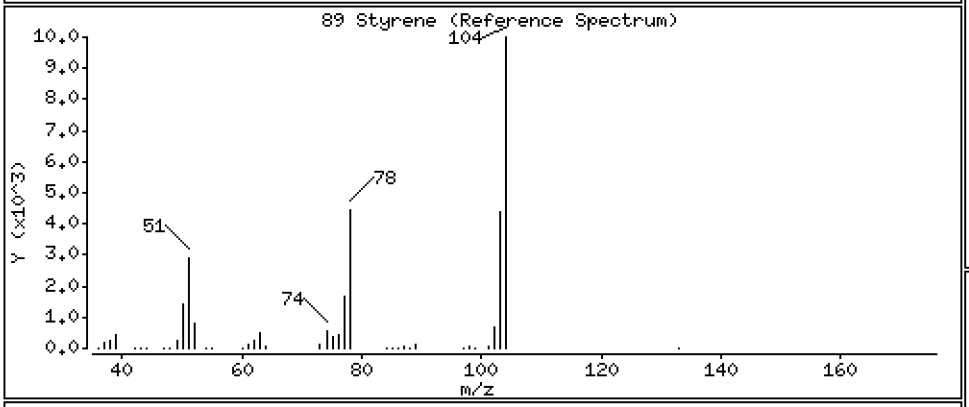
Purge Volume: 5.0 Operator: CJG

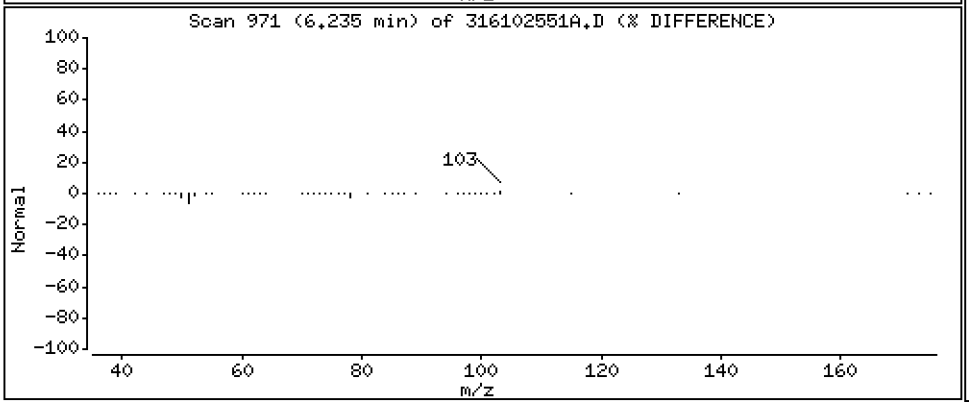
Column phase: DB-VRX Column diameter: 0.25

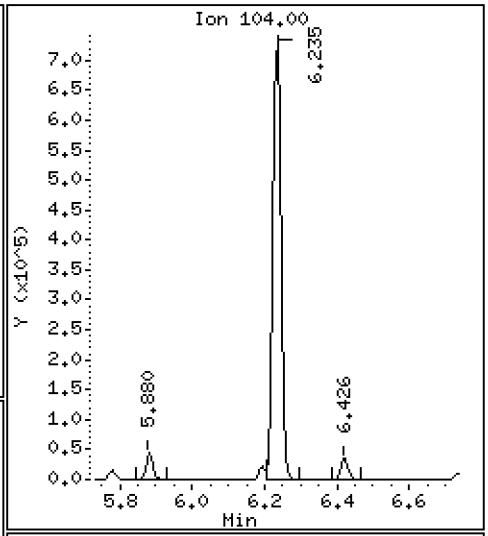
89 Styrene Concentration: 48.2967 ug/L

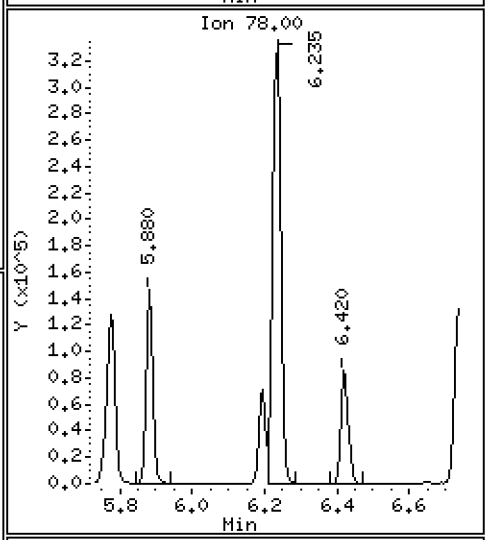


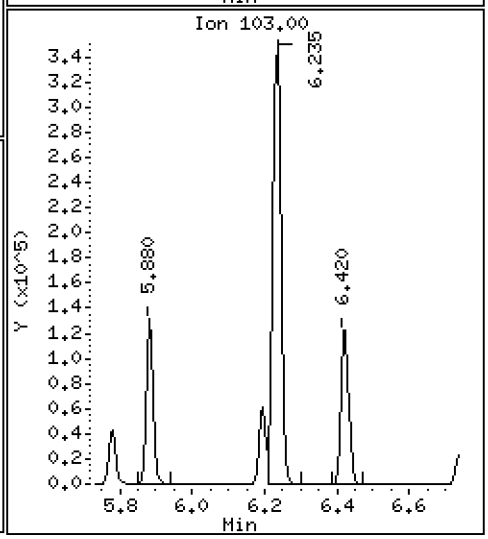












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 93

Date : 25-OCT-2016 21:59

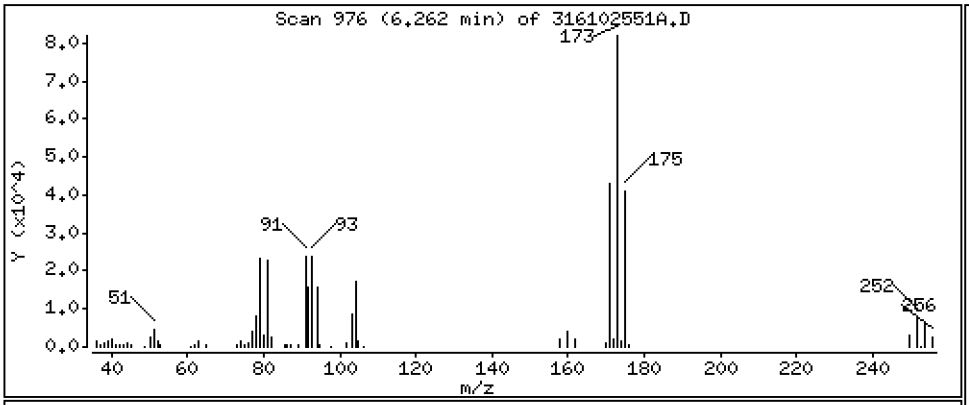
Client ID: Instrument: ms03.i

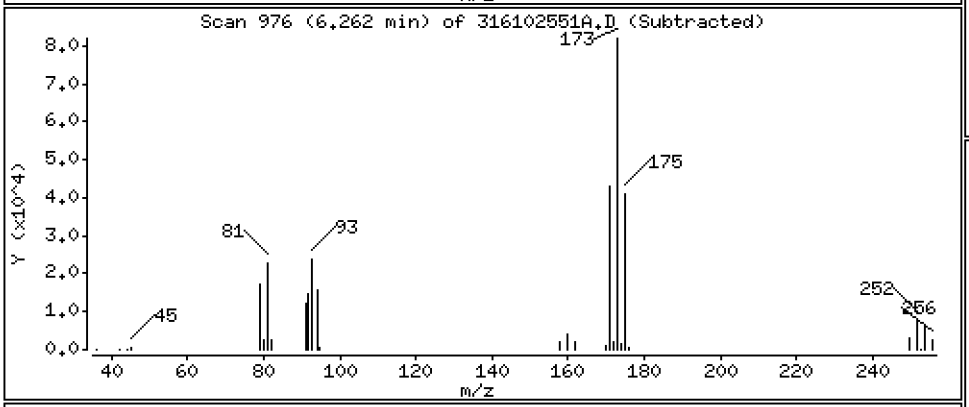
Sample Info: 1800;;1;2;4;;;

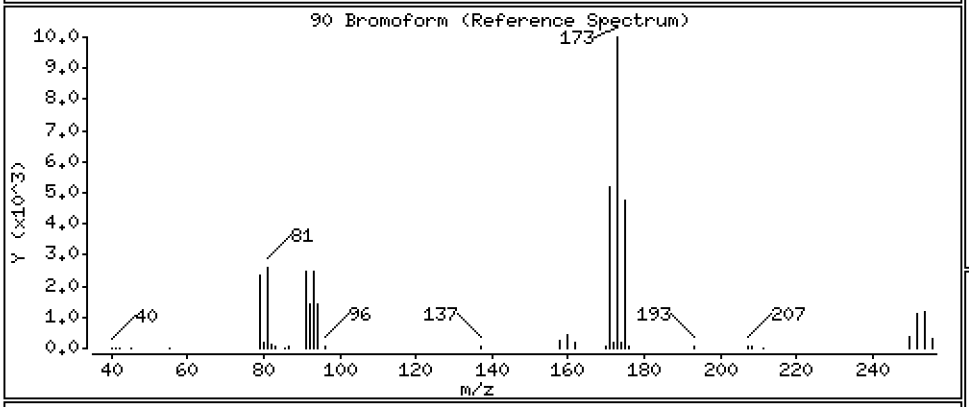
Purge Volume: 5.0 Operator: CJG

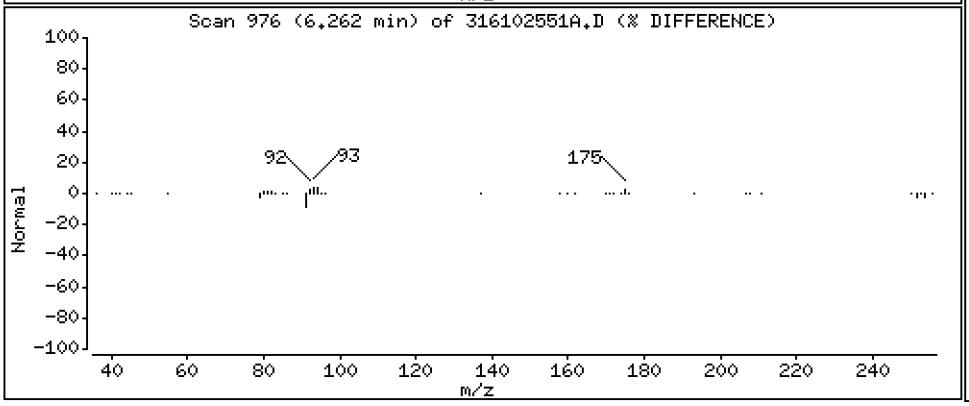
Column phase: DB-VRX Column diameter: 0.25

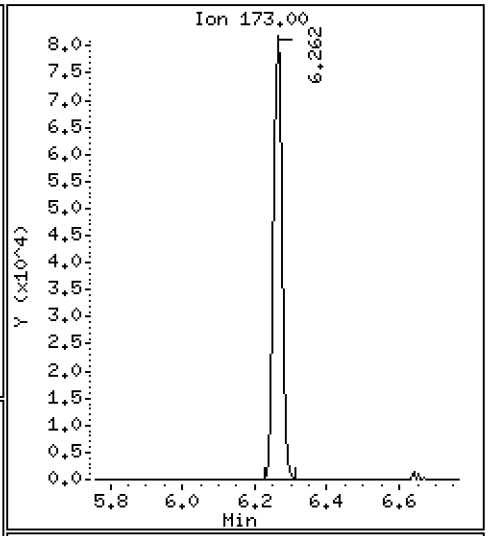
90 Bromoform Concentration: 44.5683 ug/L

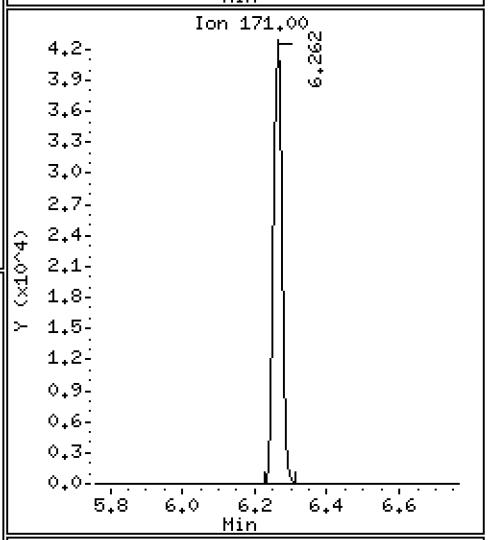


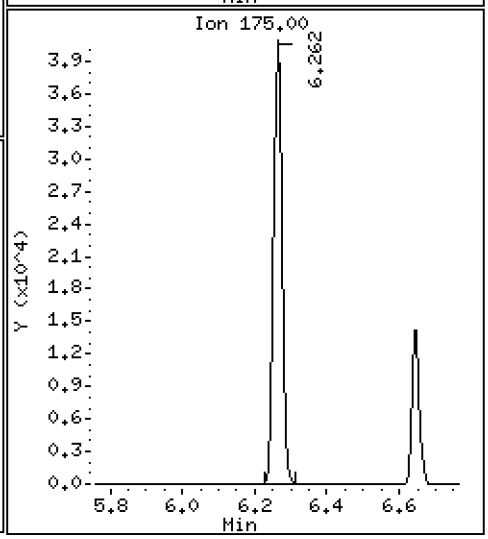












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 94

Date : 25-OCT-2016 21:59

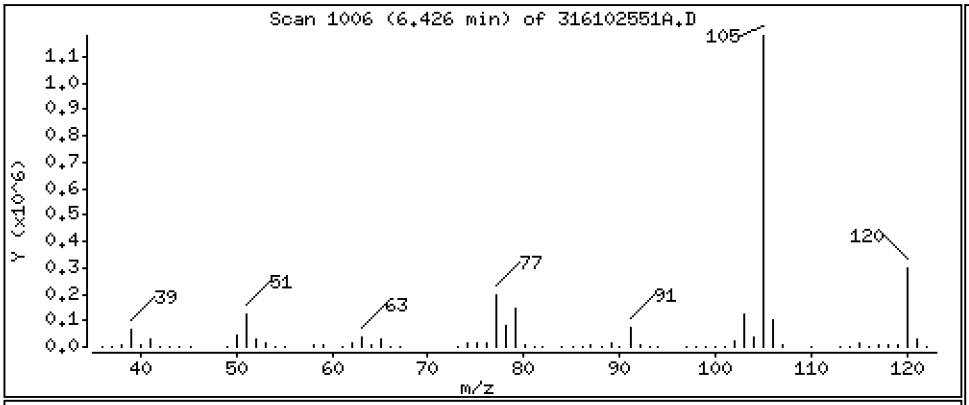
Client ID: Instrument: ms03.i

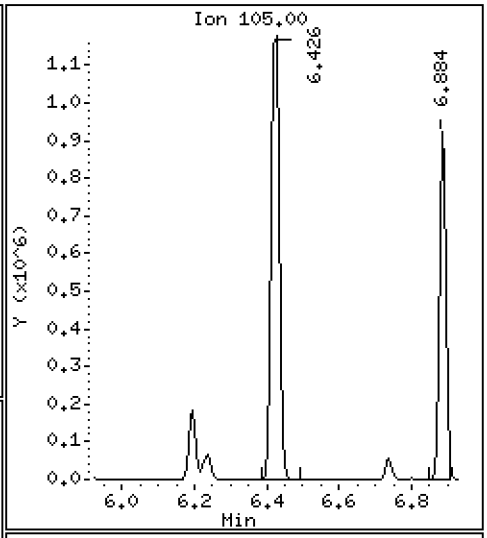
Sample Info: 1800;;1;2;4;;;

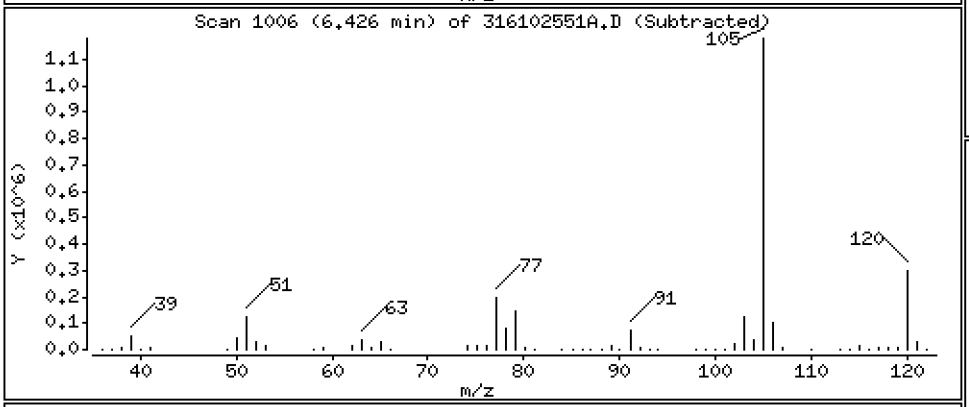
Purge Volume: 5.0 Operator: CJG

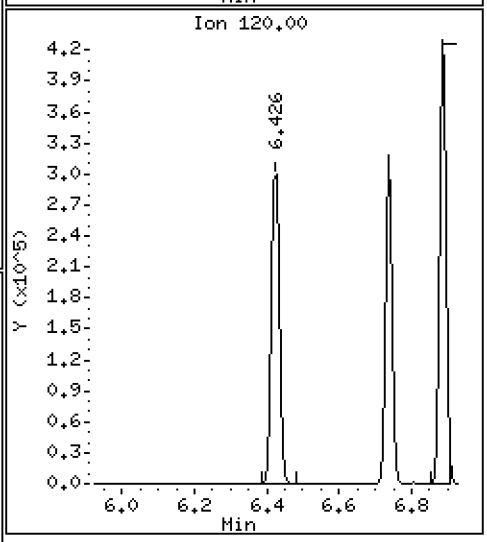
Column phase: DB-VRX Column diameter: 0.25

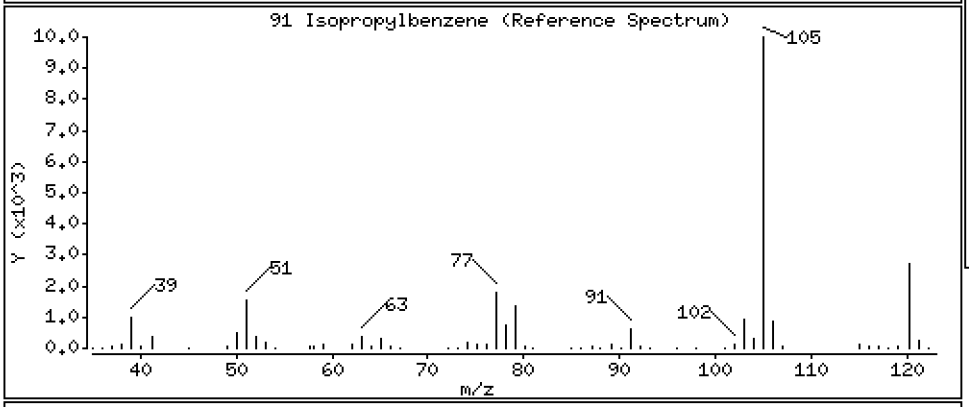
91 Isopropylbenzene Concentration: 47.6363 ug/L

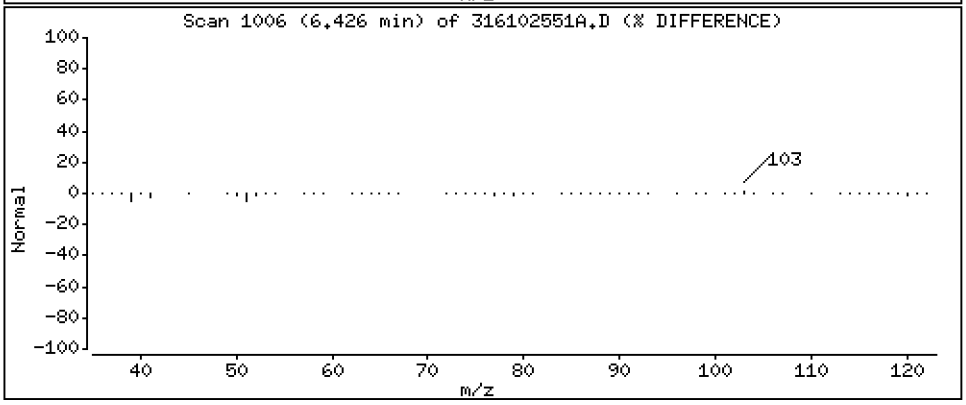












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 95

Date : 25-OCT-2016 21:59

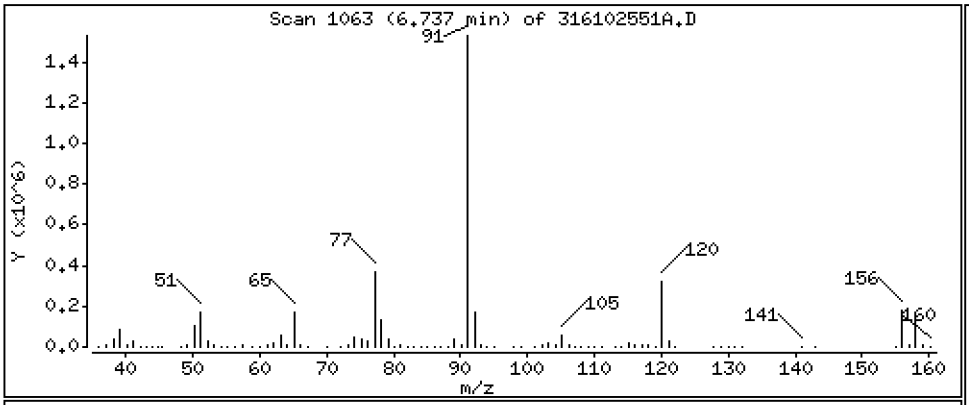
Client ID: Instrument: ms03.i

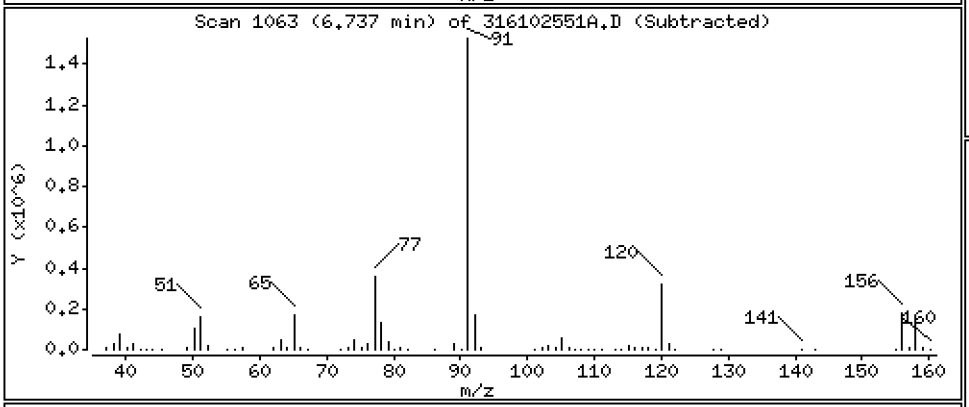
Sample Info: 1800;;1;2;4;;;

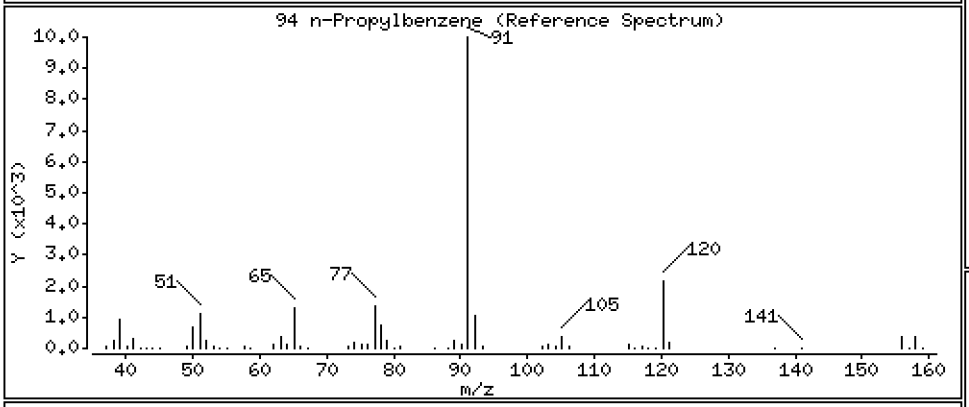
Purge Volume: 5.0 Operator: CJG

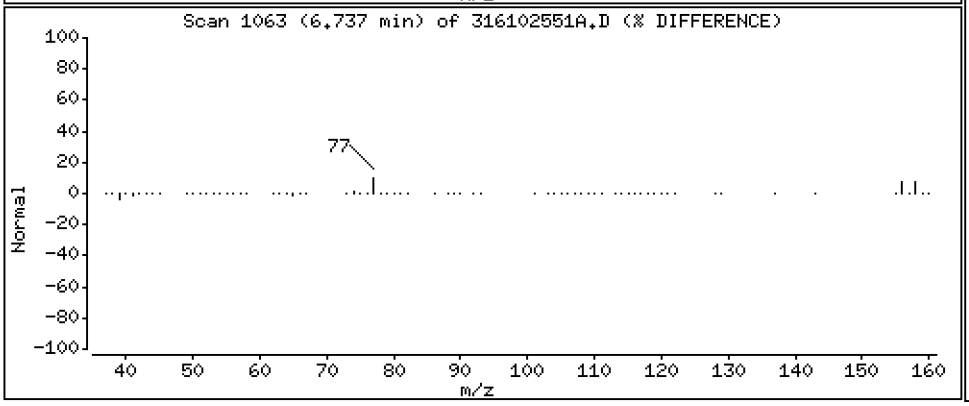
Column phase: DB-VRX Column diameter: 0.25

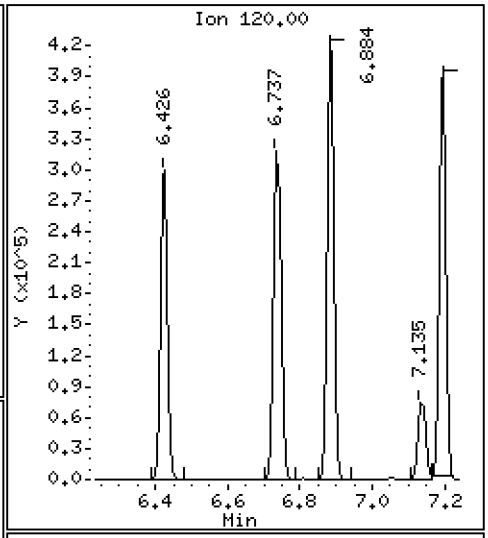
94 n-Propylbenzene Concentration: 47.9319 ug/L

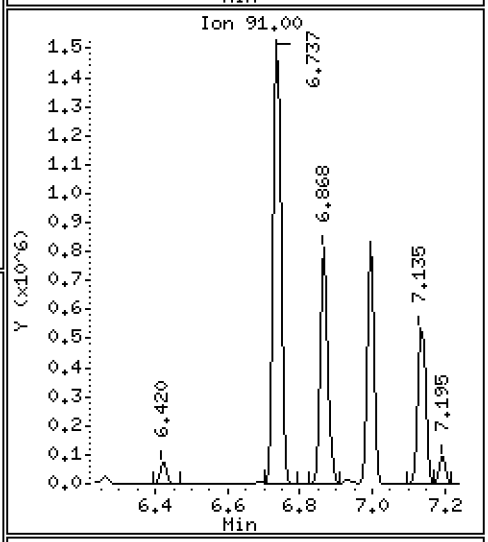


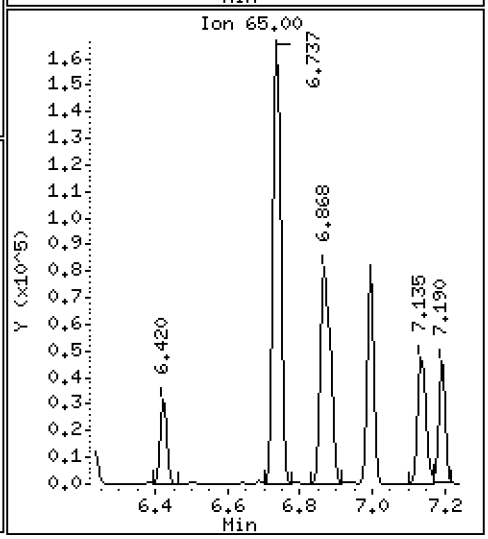












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 96

Date : 25-OCT-2016 21:59

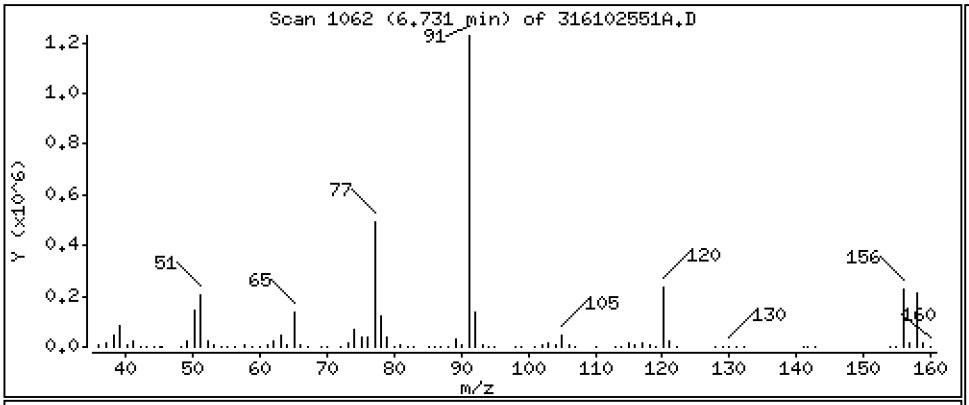
Client ID: Instrument: ms03.i

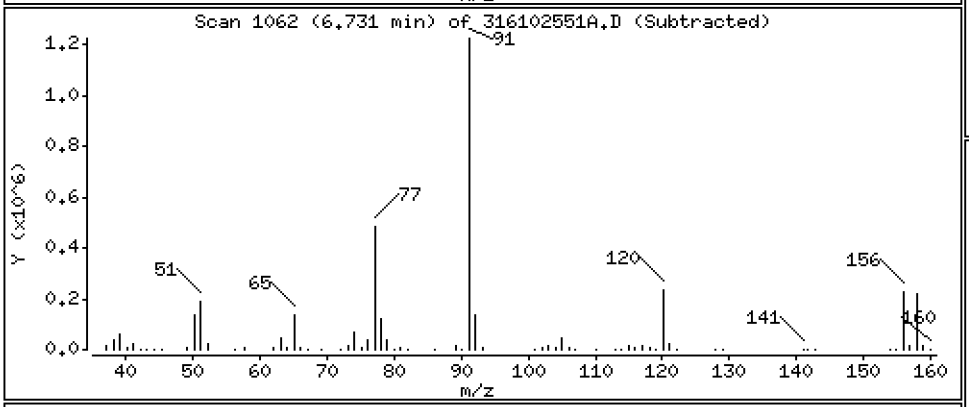
Sample Info: 1800;;1;2;4;;;

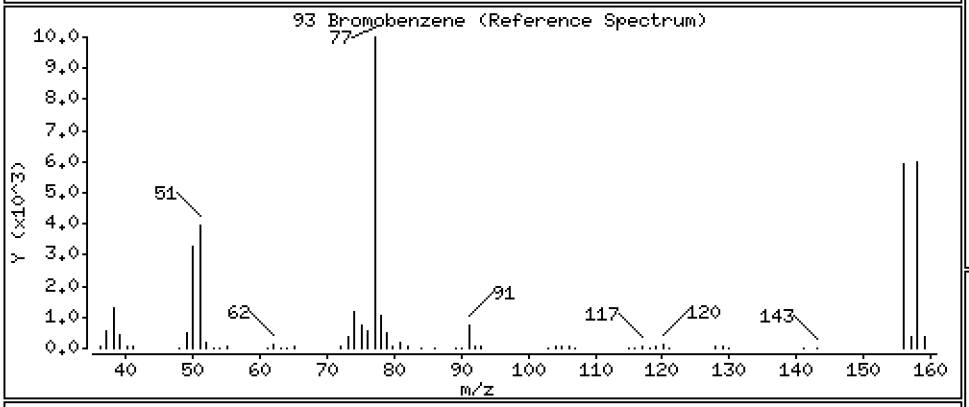
Purge Volume: 5.0 Operator: CJG

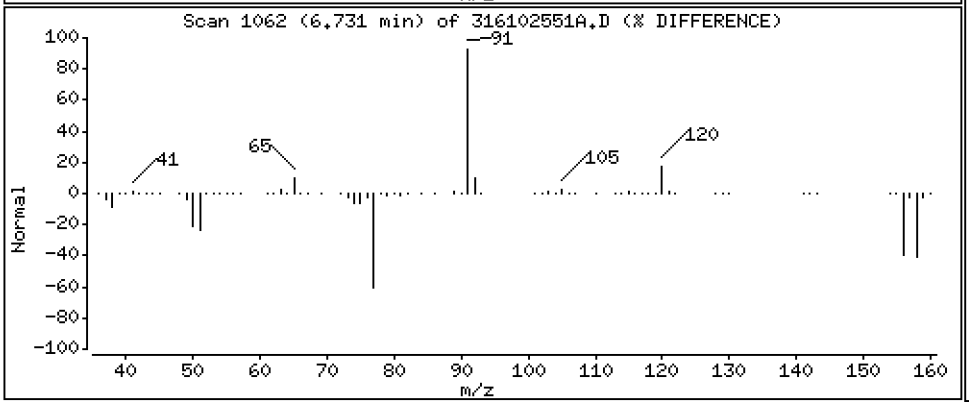
Column phase: DB-VRX Column diameter: 0.25

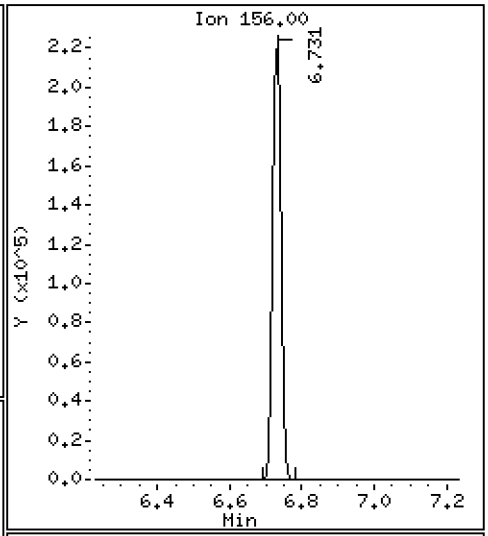
93 Bromobenzene Concentration: 44.4628 ug/L

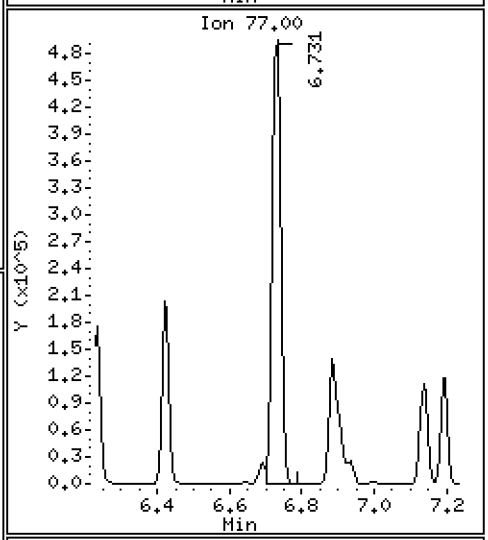


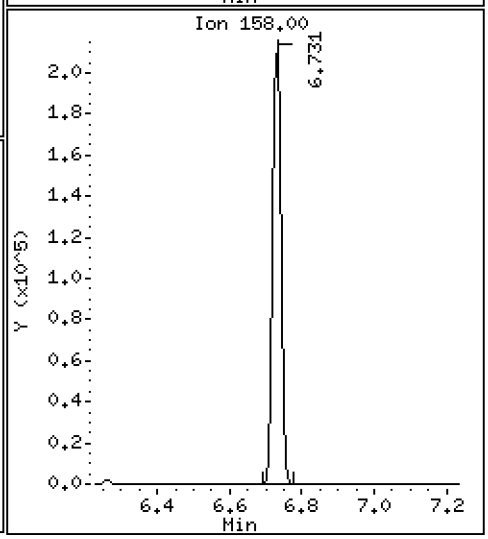












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 97

Date : 25-OCT-2016 21:59

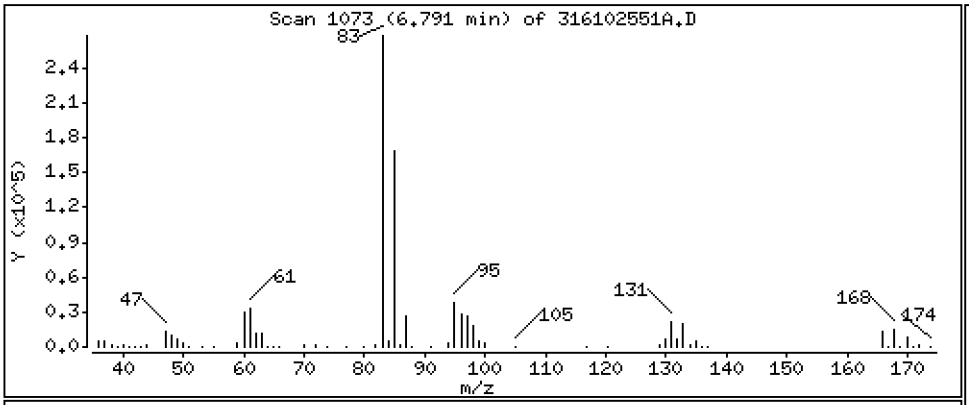
Client ID: Instrument: ms03.i

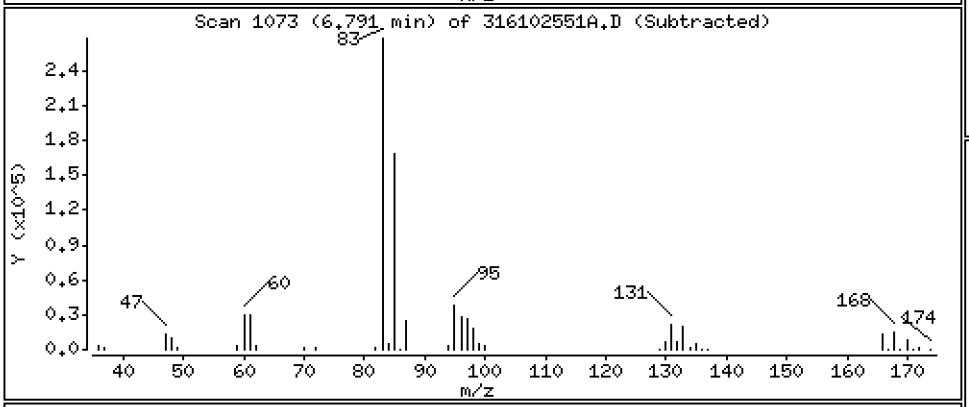
Sample Info: 1800;;1;2;4;;;

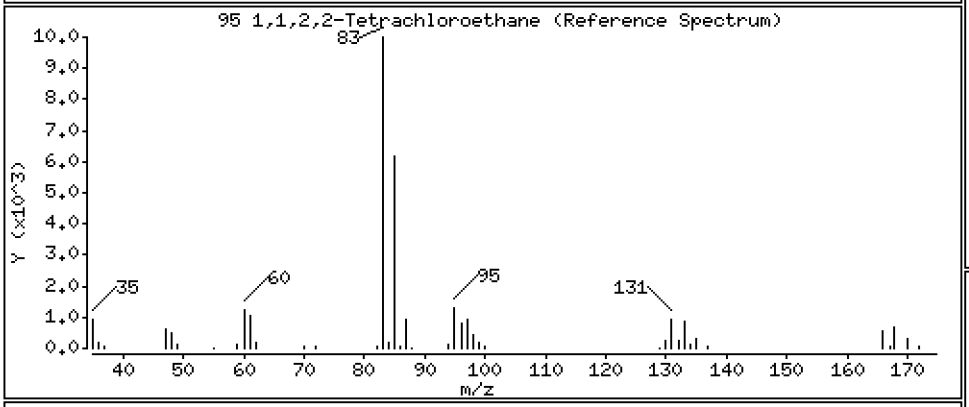
Purge Volume: 5.0 Operator: CJG

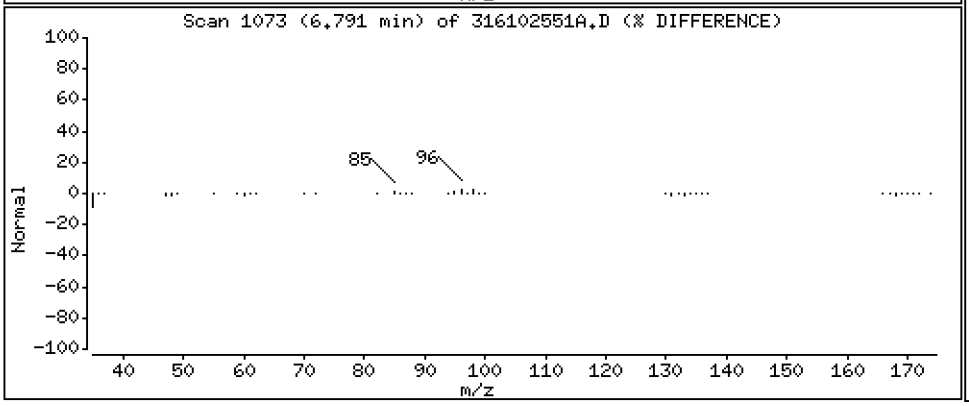
Column phase: DB-VRX Column diameter: 0.25

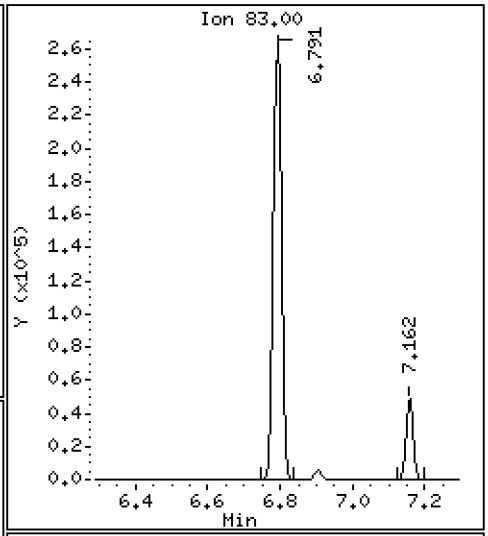
95 1,1,2,2-Tetrachloroethane Concentration: 45.0639 ug/L

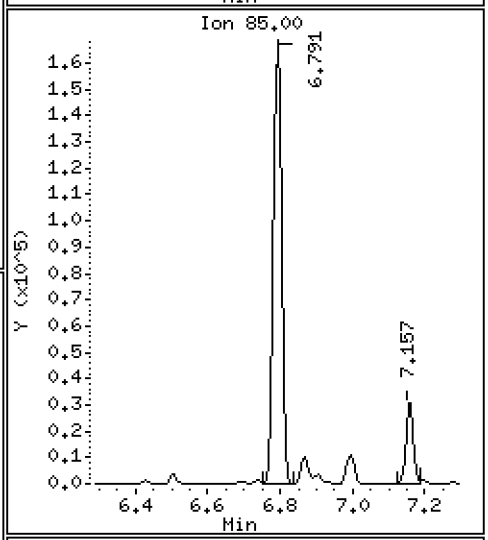


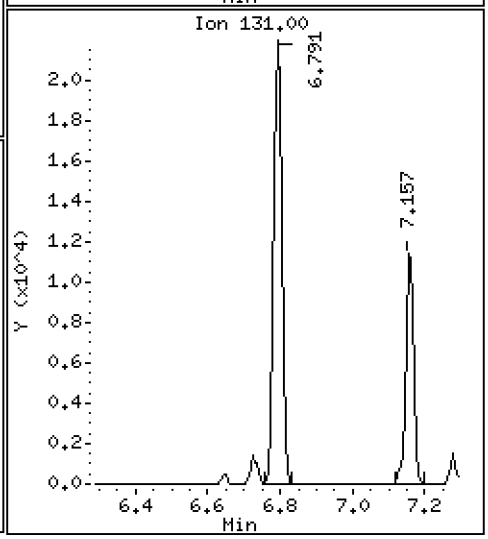












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 98

Date : 25-OCT-2016 21:59

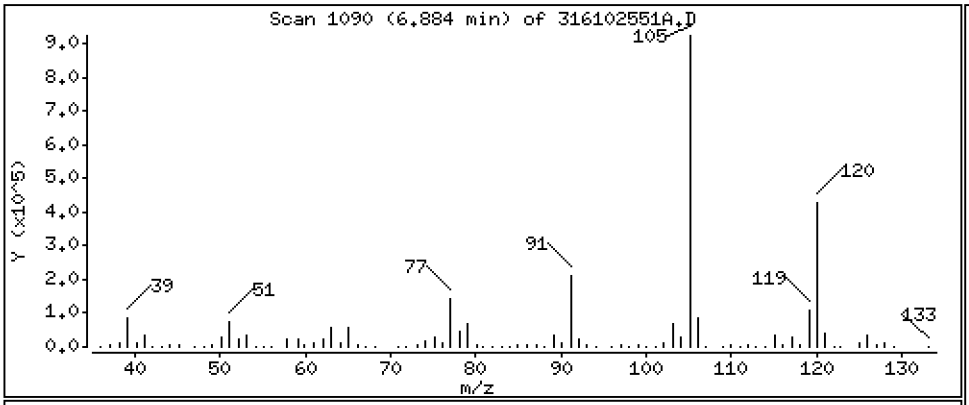
Client ID: Instrument: ms03.i

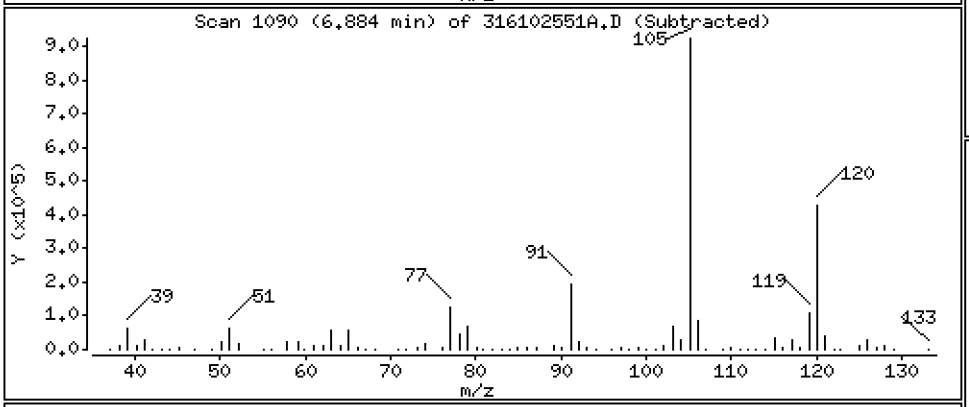
Sample Info: 1800;;1;2;4;;;

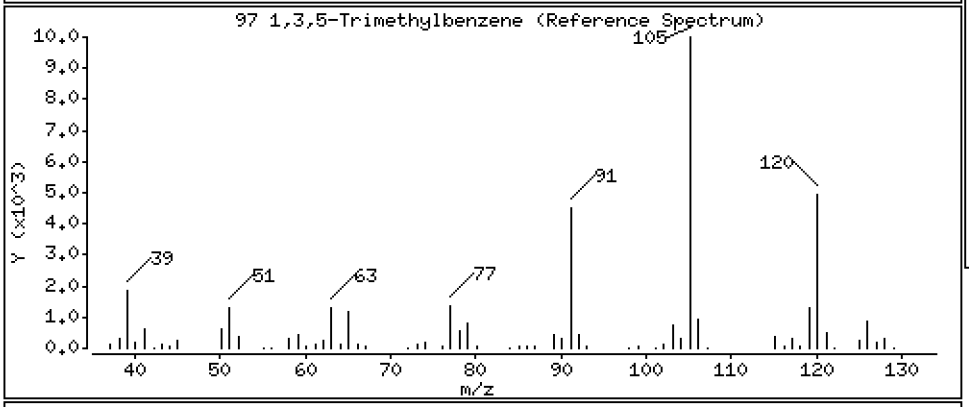
Purge Volume: 5.0 Operator: CJG

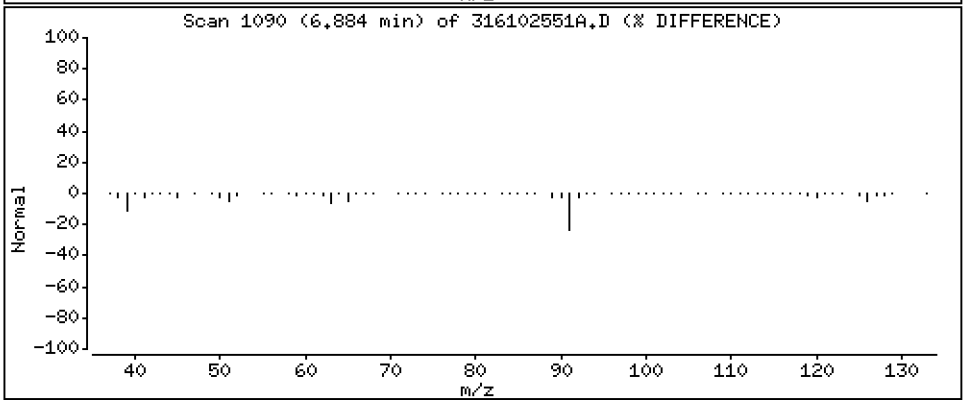
Column phase: DB-VRX Column diameter: 0.25

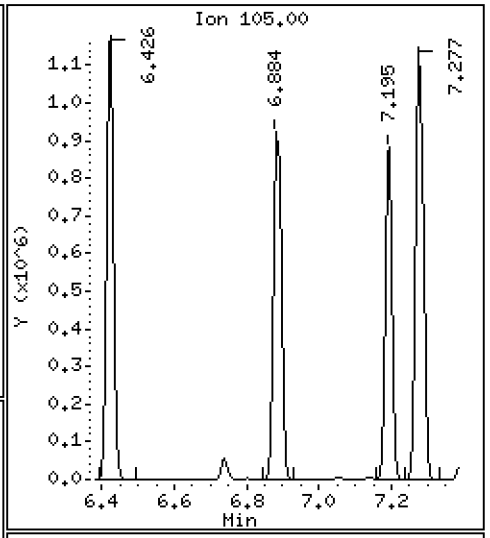
97 1,3,5-Trimethylbenzene Concentration: 48.9525 ug/L

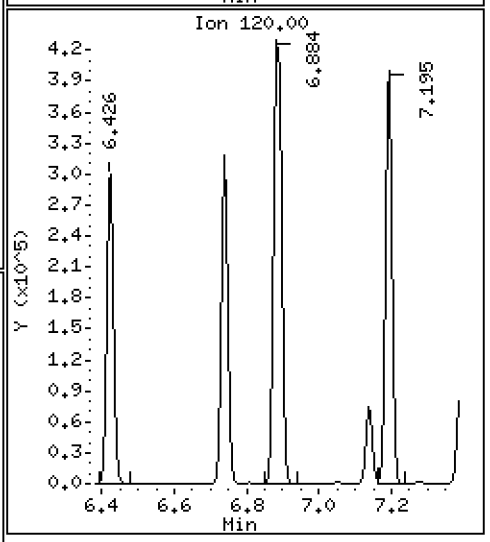












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 99

Date : 25-OCT-2016 21:59

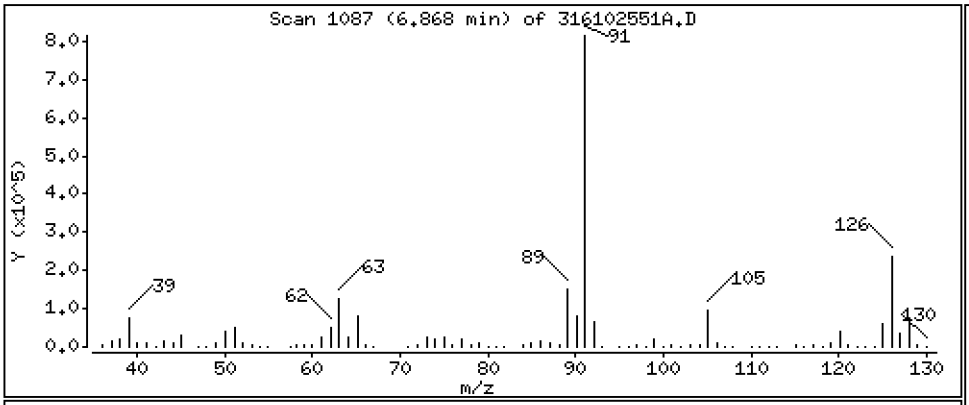
Client ID: Instrument: ms03.i

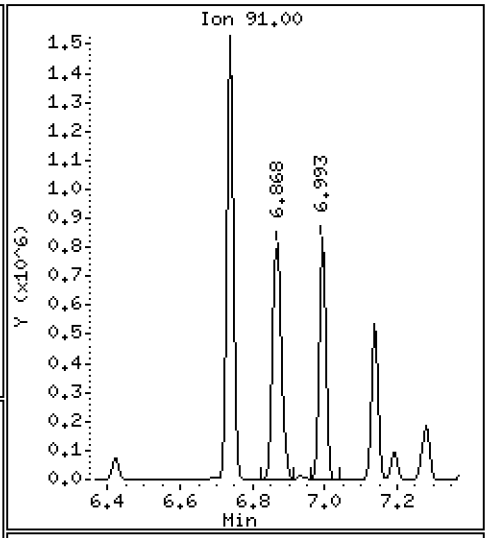
Sample Info: 1800;;1;2;4;;;

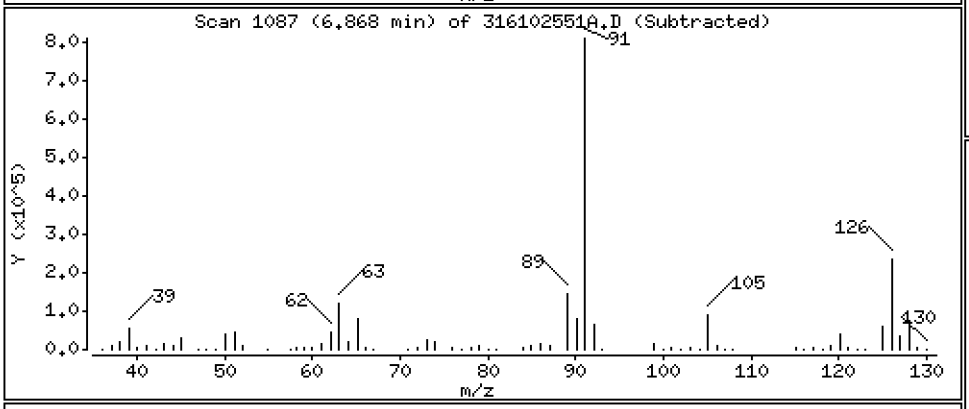
Purge Volume: 5.0 Operator: CJG

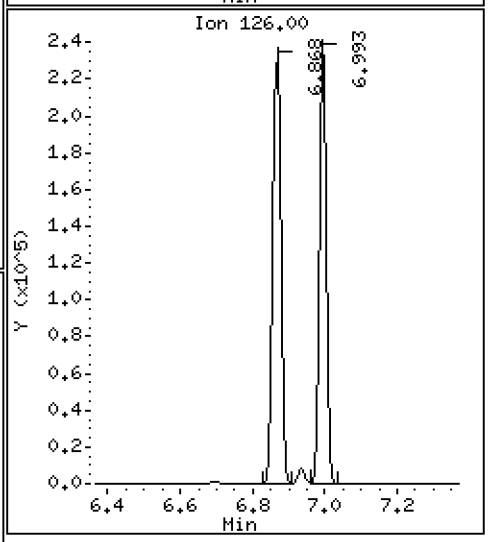
Column phase: DB-VRX Column diameter: 0.25

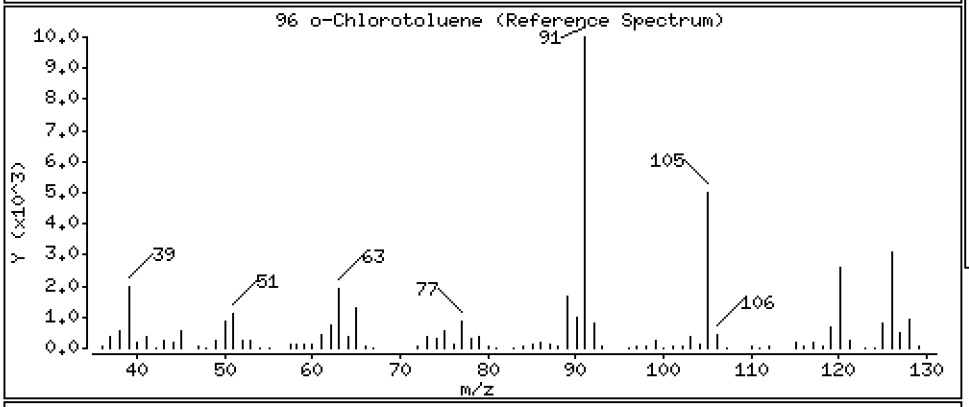
96 o-Chlorotoluene Concentration: 46.2518 ug/L

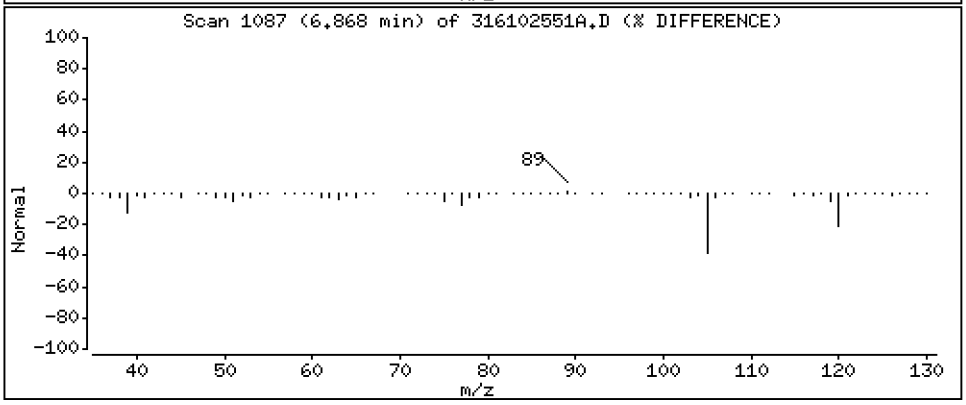












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 100

Date : 25-OCT-2016 21:59

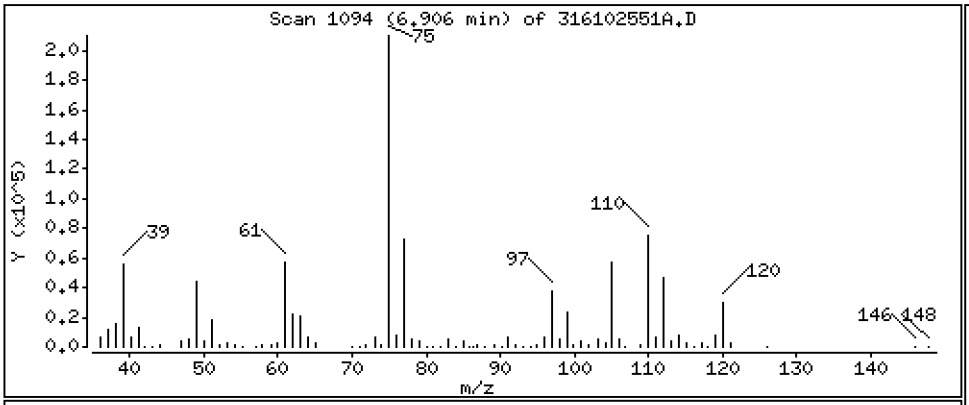
Client ID: Instrument: ms03.i

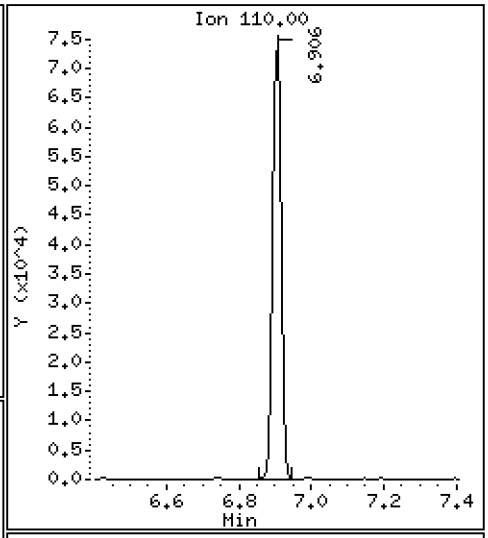
Sample Info: 1800;;1;2;4;;;

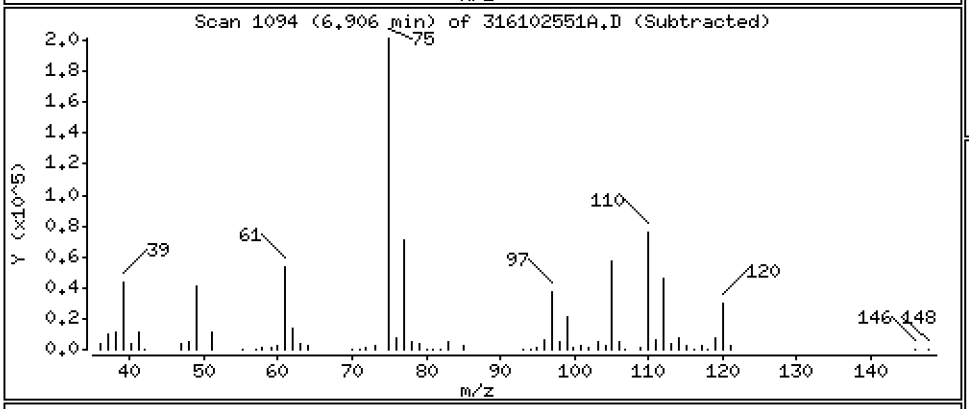
Purge Volume: 5.0 Operator: CJG

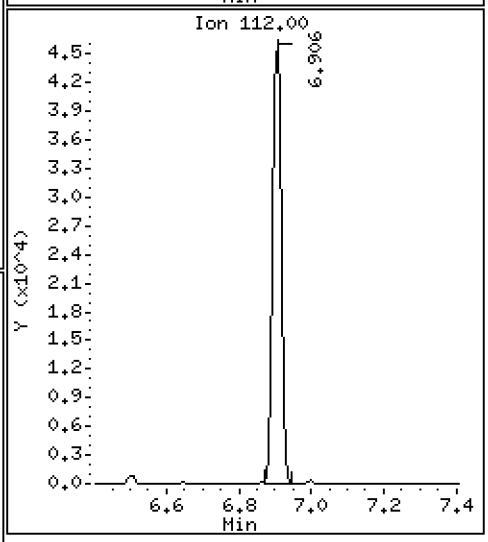
Column phase: DB-VRX Column diameter: 0.25

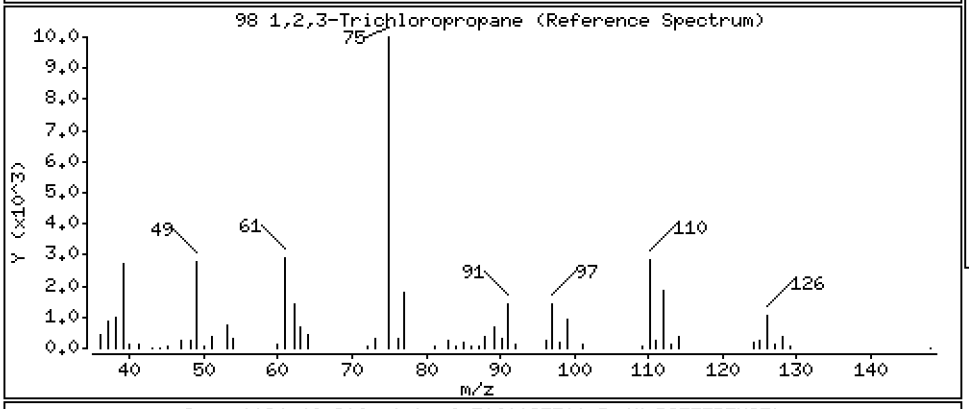
98 1,2,3-Trichloropropane Concentration: 43.9865 ug/L

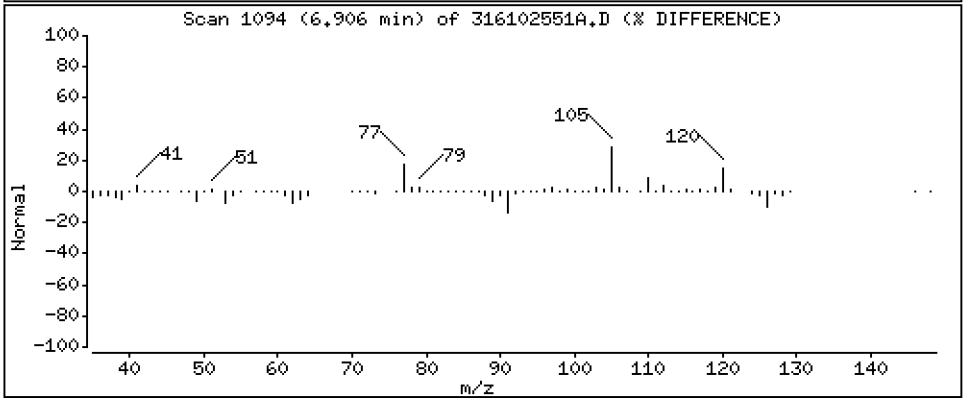












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 101

Date : 25-OCT-2016 21:59

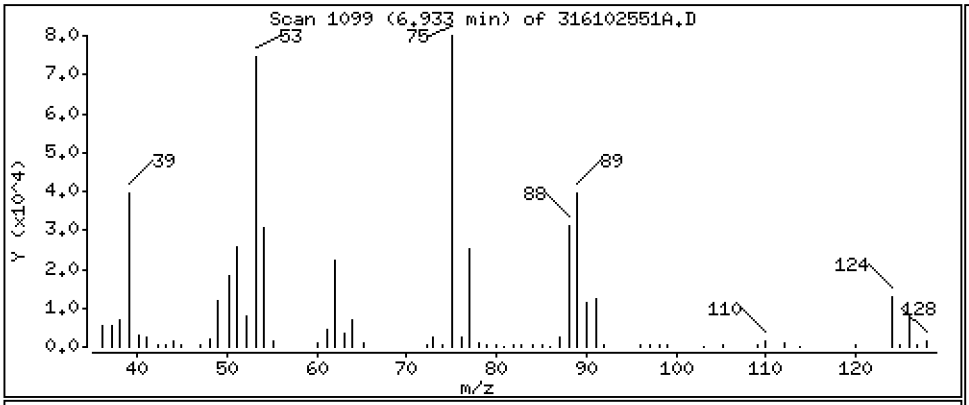
Client ID: Instrument: ms03.i

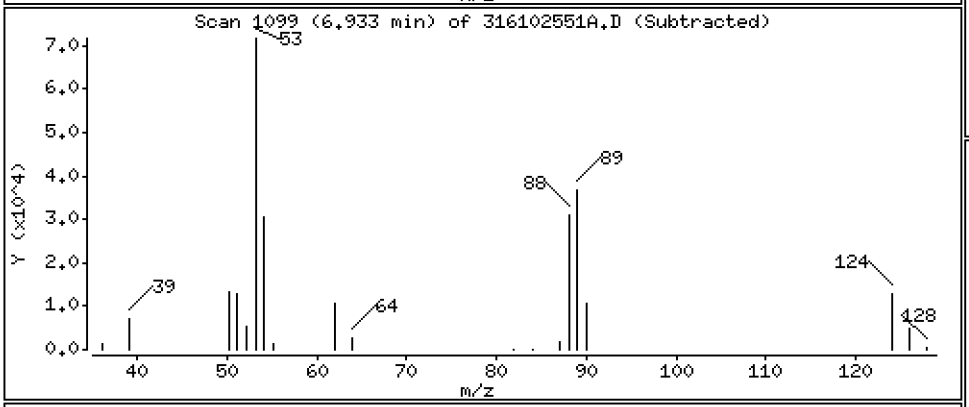
Sample Info: 1800;;1;2;4;;;

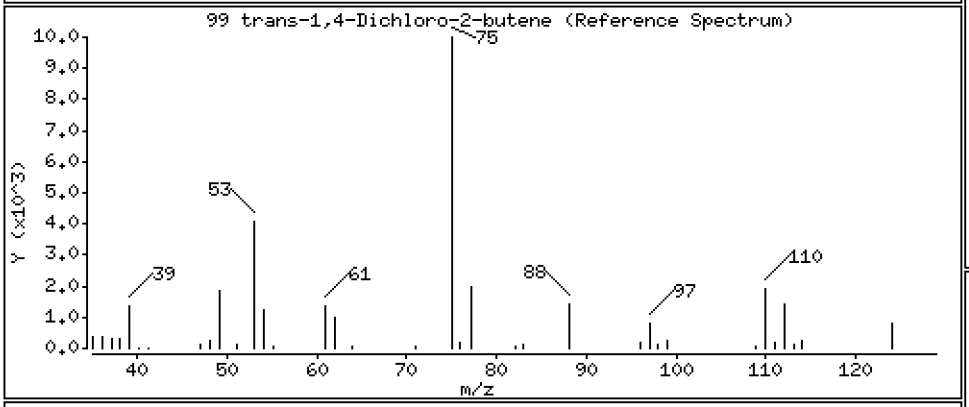
Purge Volume: 5.0 Operator: CJG

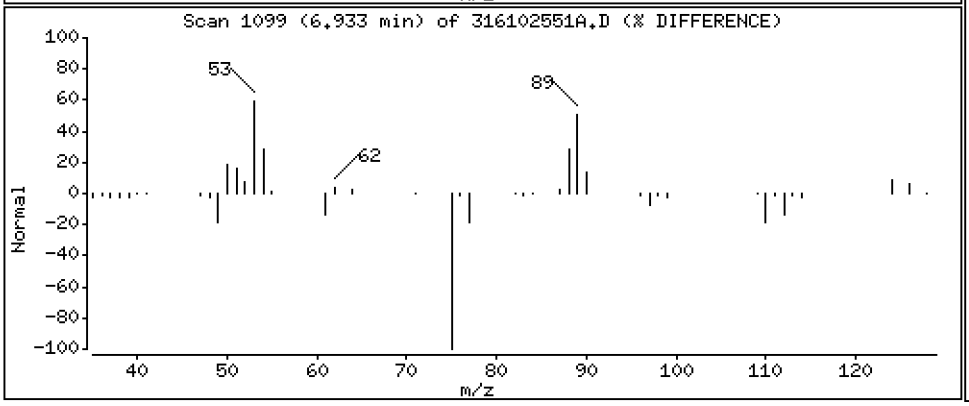
Column phase: DB-VRX Column diameter: 0.25

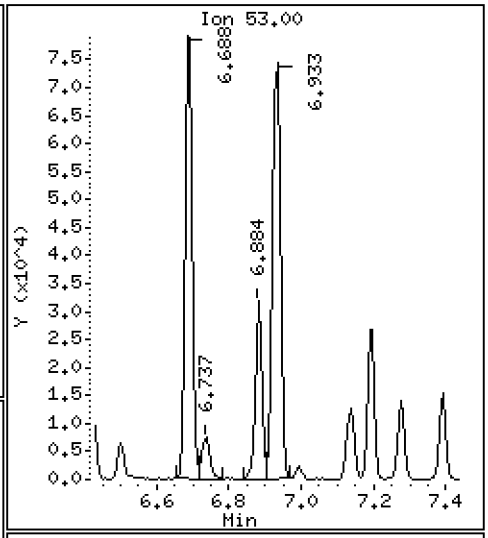
99 trans-1,4-Dichloro-2-butene Concentration: 51.3945 ug/L

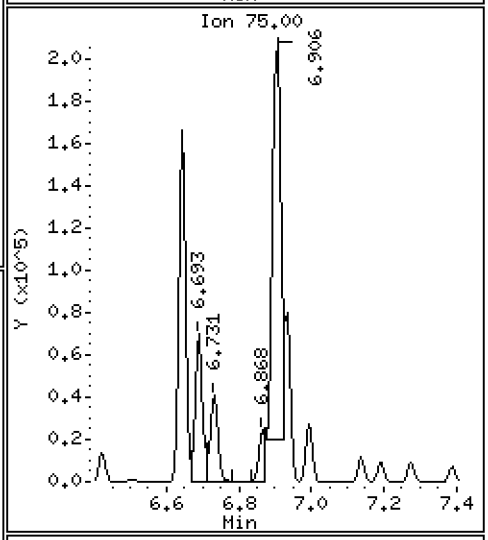


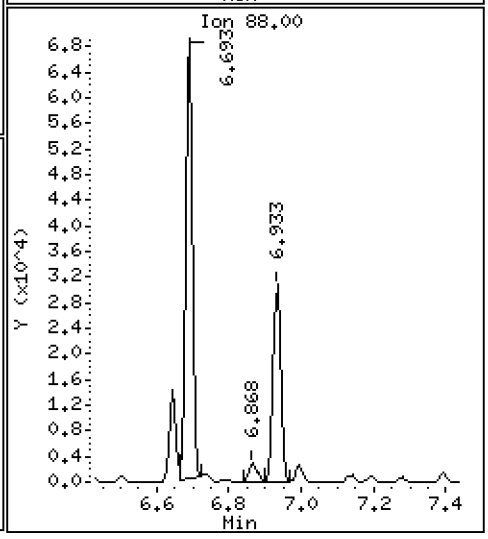












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 102

Date : 25-OCT-2016 21:59

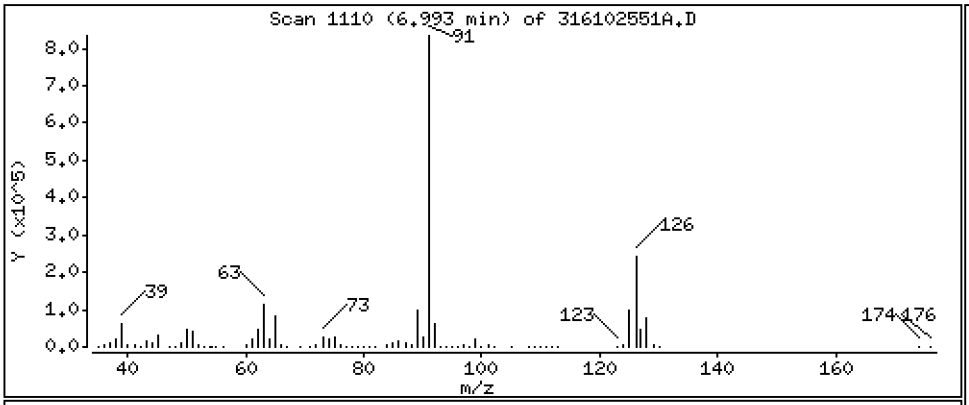
Client ID: Instrument: ms03.i

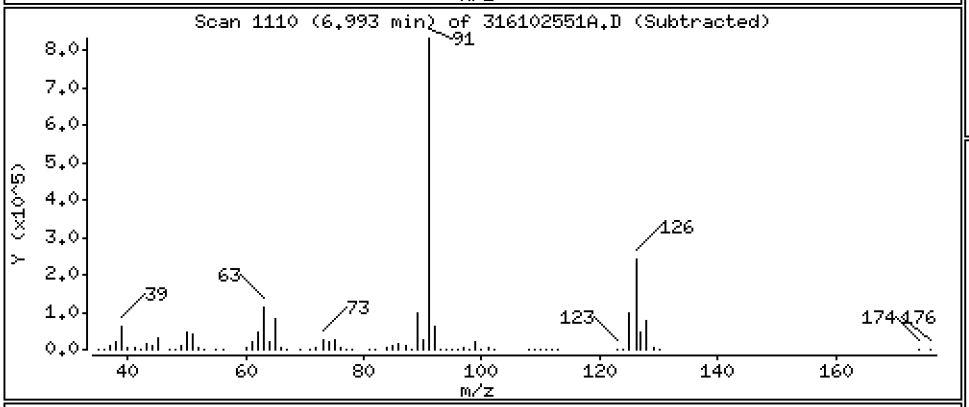
Sample Info: 1800;;1;2;4;;;

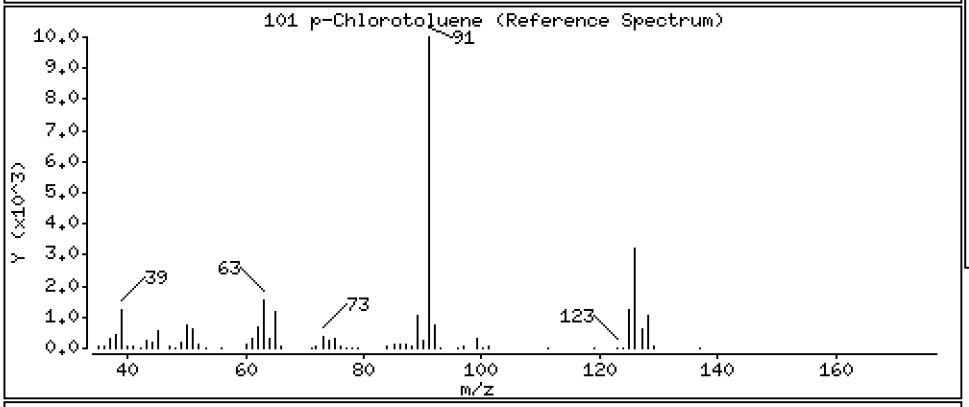
Purge Volume: 5.0 Operator: CJG

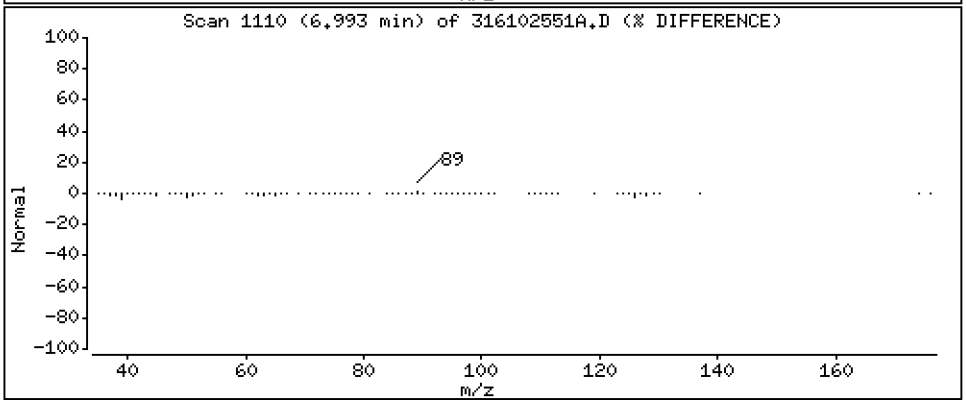
Column phase: DB-VRX Column diameter: 0.25

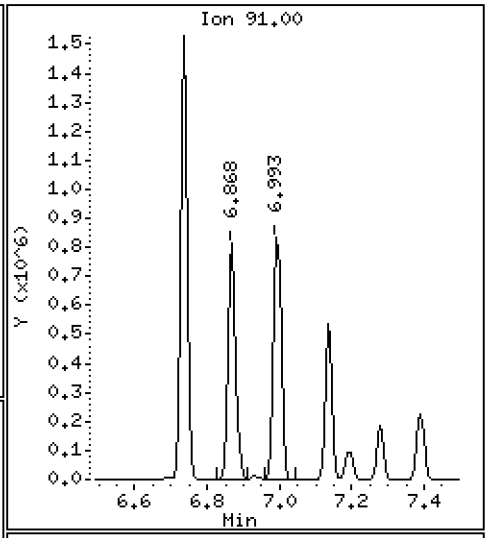
101 p-Chlorotoluene Concentration: 46.2768 ug/L

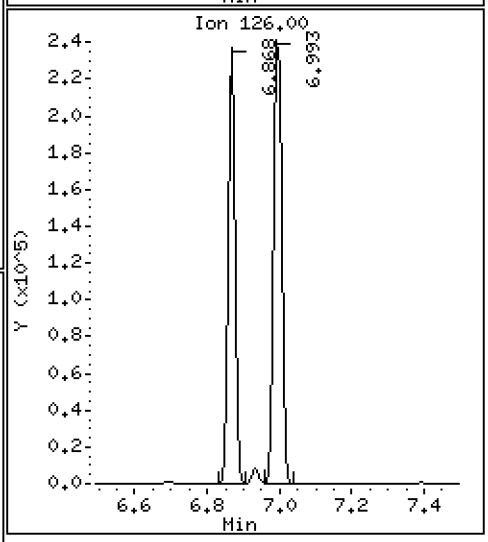












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 103

Date : 25-OCT-2016 21:59

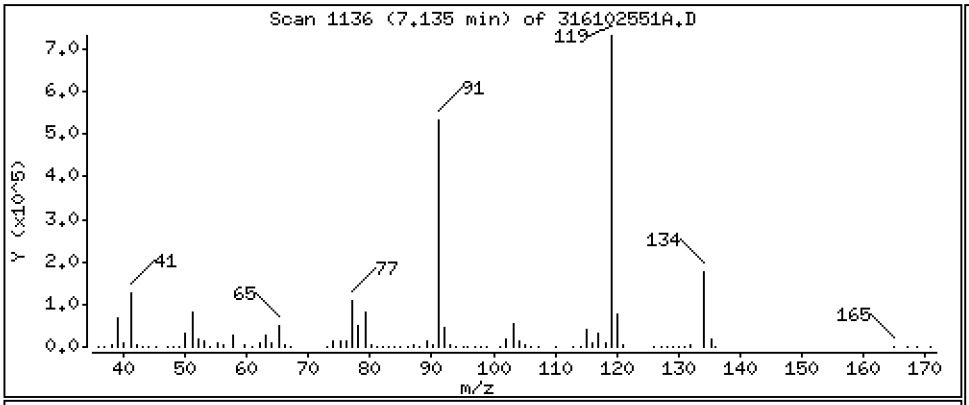
Client ID: Instrument: ms03.i

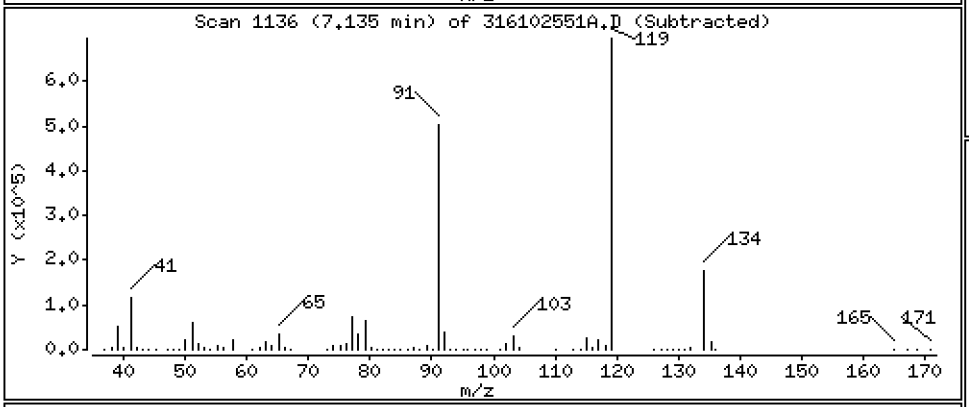
Sample Info: 1800;;1;2;4;;;

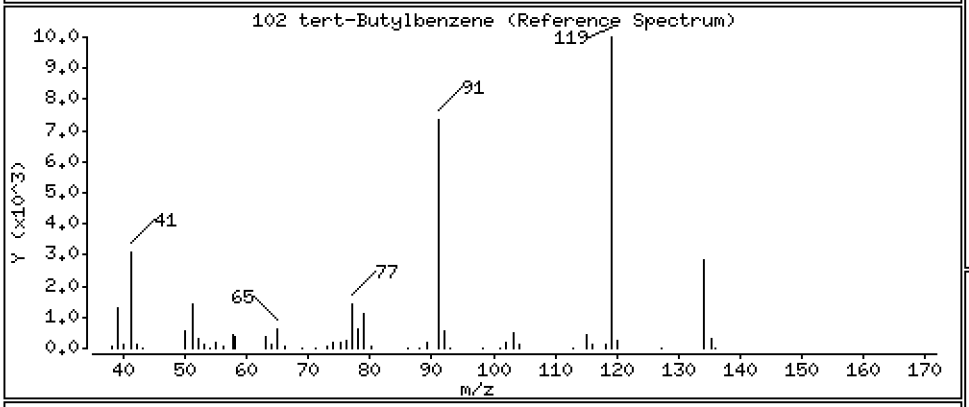
Purge Volume: 5.0 Operator: CJG

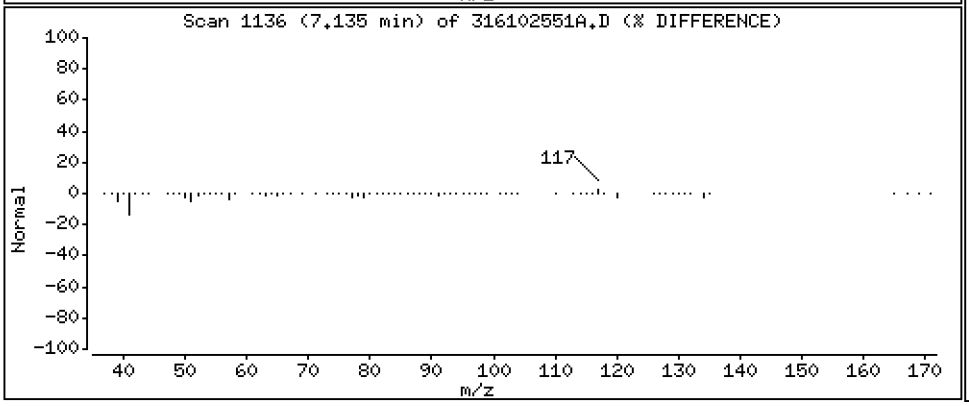
Column phase: DB-VRX Column diameter: 0.25

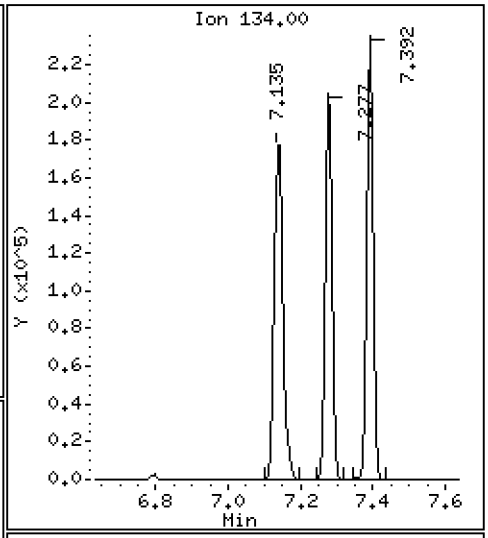
102 tert-Butylbenzene Concentration: 47.6167 ug/L

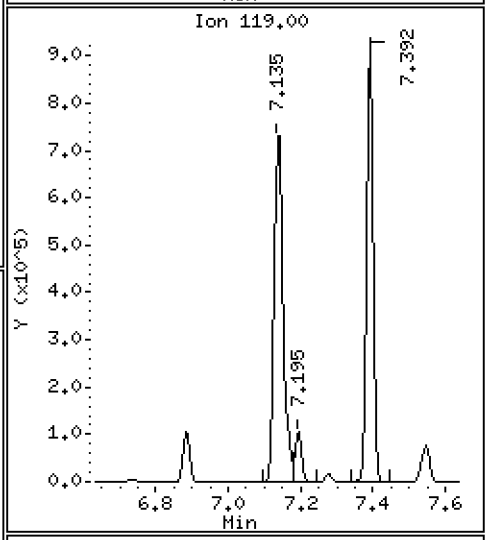


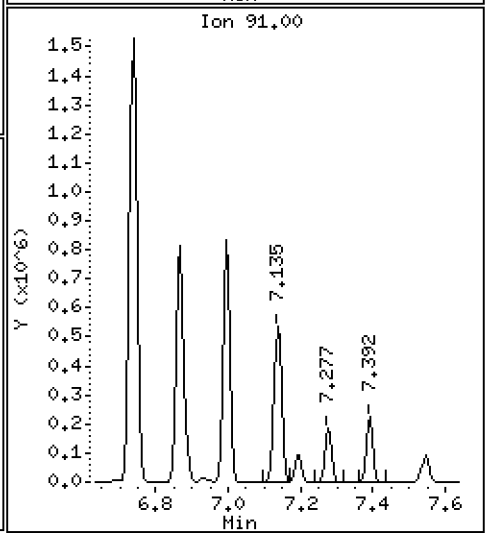












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 104

Date : 25-OCT-2016 21:59

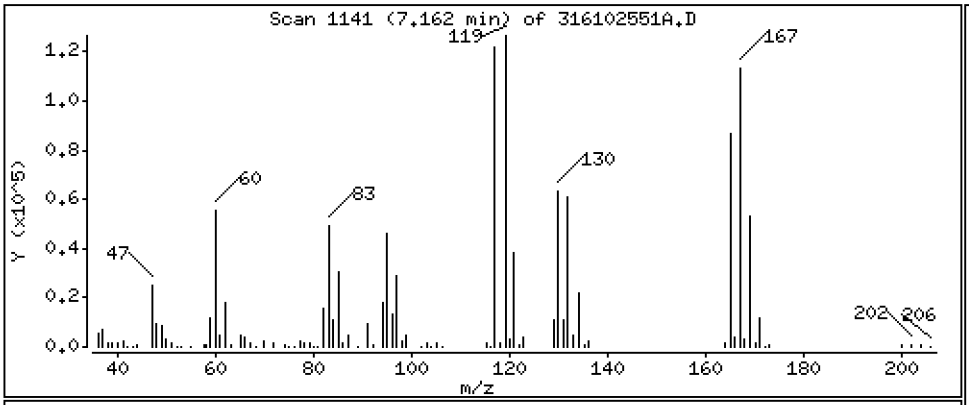
Client ID: Instrument: ms03.i

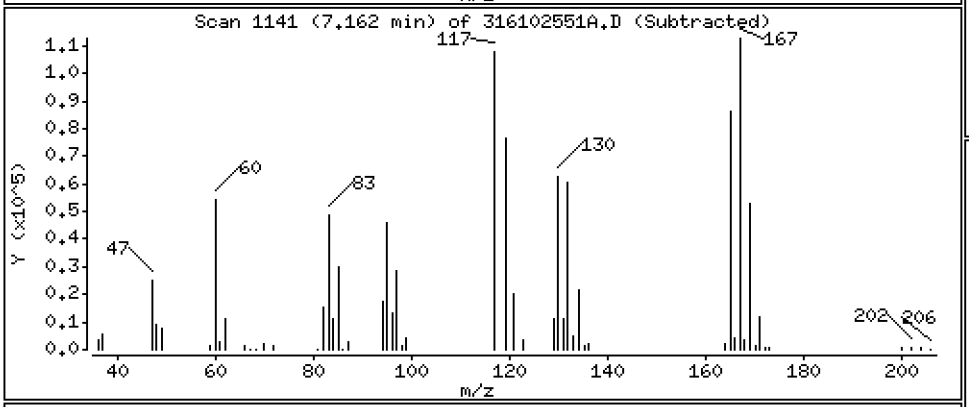
Sample Info: 1800;;1;2;4;;;

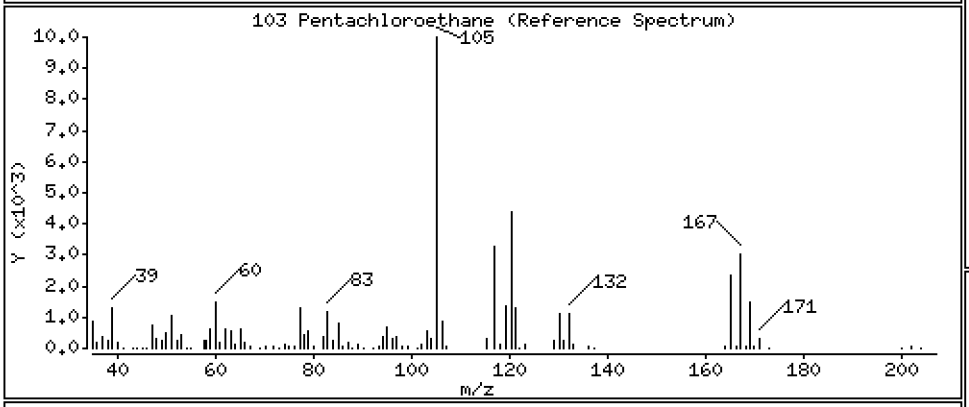
Purge Volume: 5.0 Operator: CJG

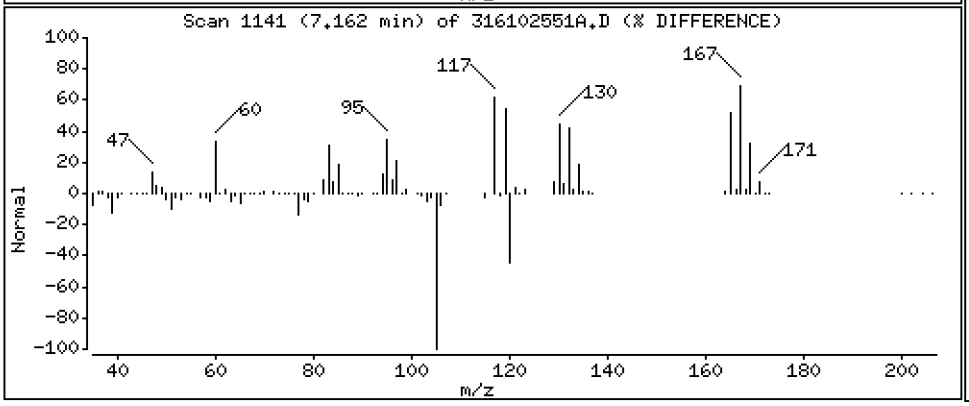
Column phase: DB-VRX Column diameter: 0.25

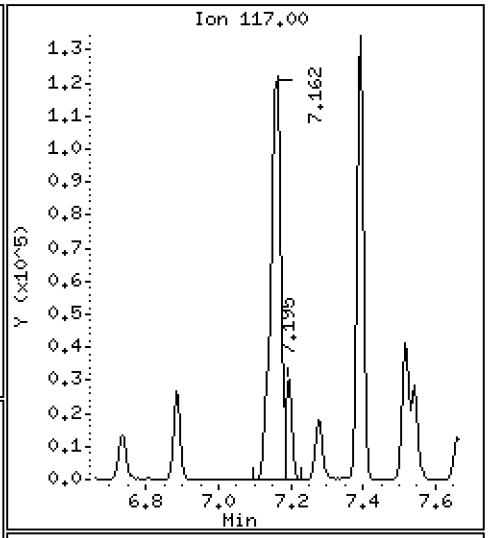
103 Pentachloroethane Concentration: 46.2603 ug/L

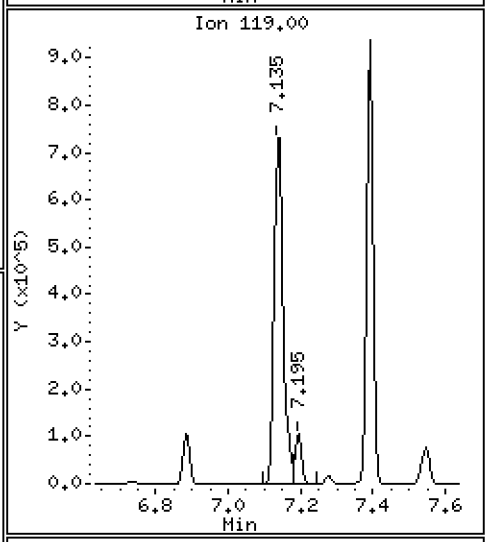


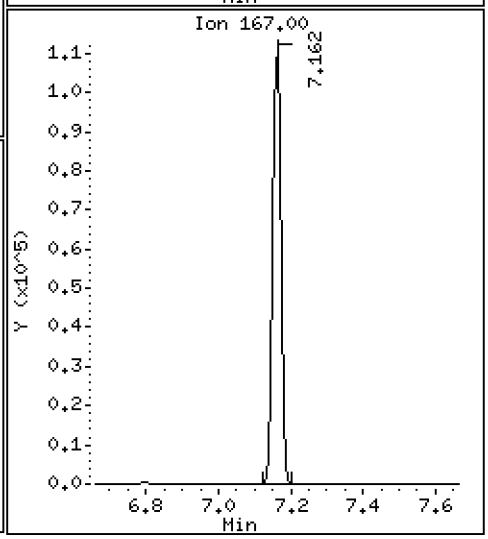












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 105

Date : 25-OCT-2016 21:59

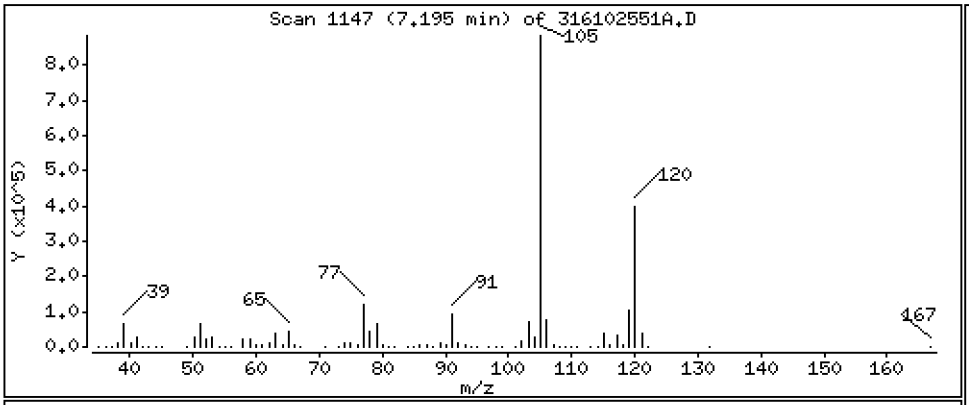
Client ID: Instrument: ms03.i

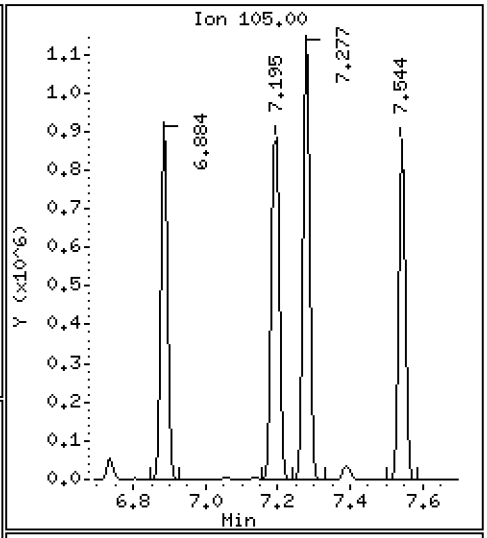
Sample Info: 1800;;1;2;4;;;

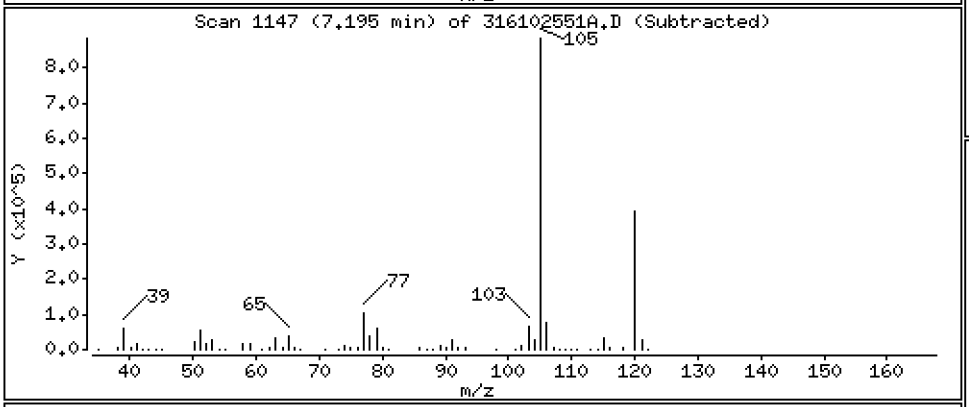
Purge Volume: 5.0 Operator: CJG

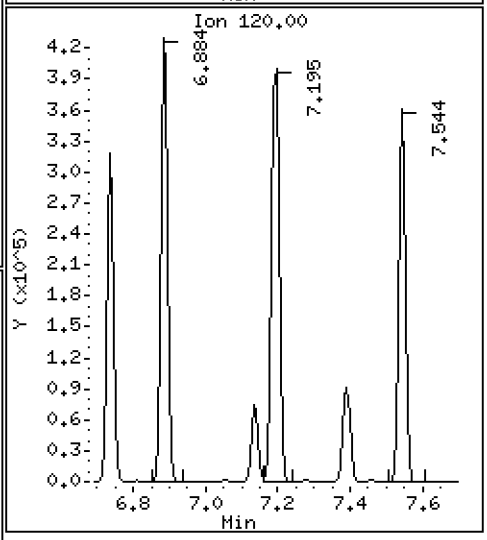
Column phase: DB-VRX Column diameter: 0.25

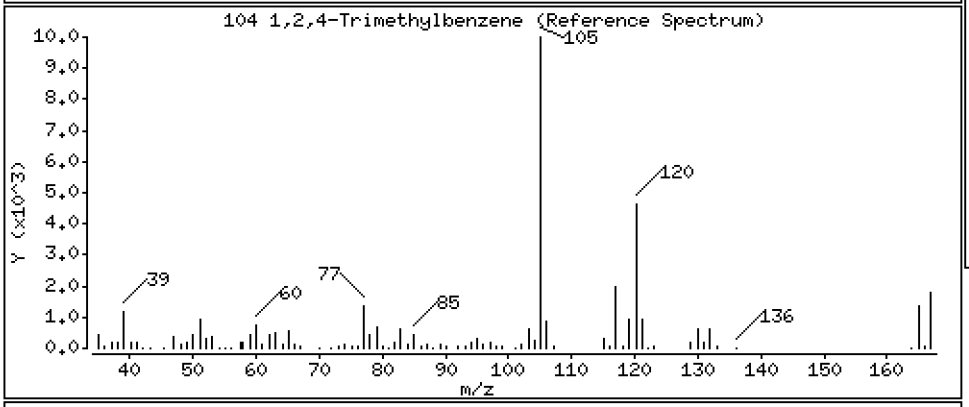
104 1,2,4-Trimethylbenzene Concentration: 48.9861 ug/L

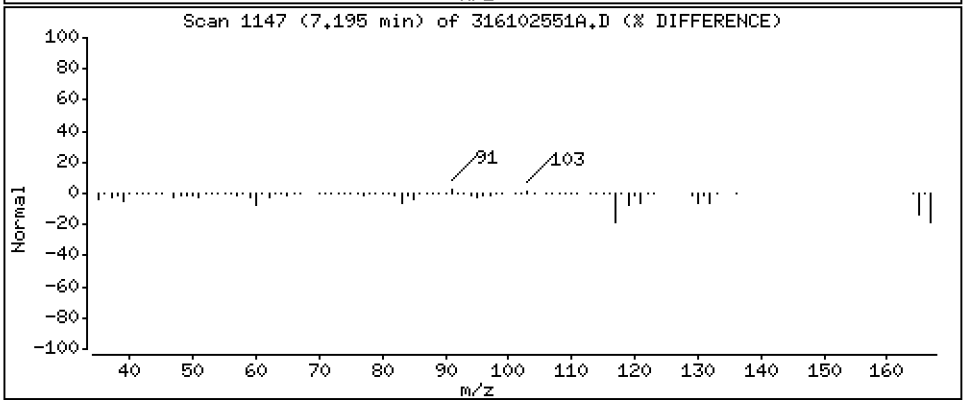












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 106

Date : 25-OCT-2016 21:59

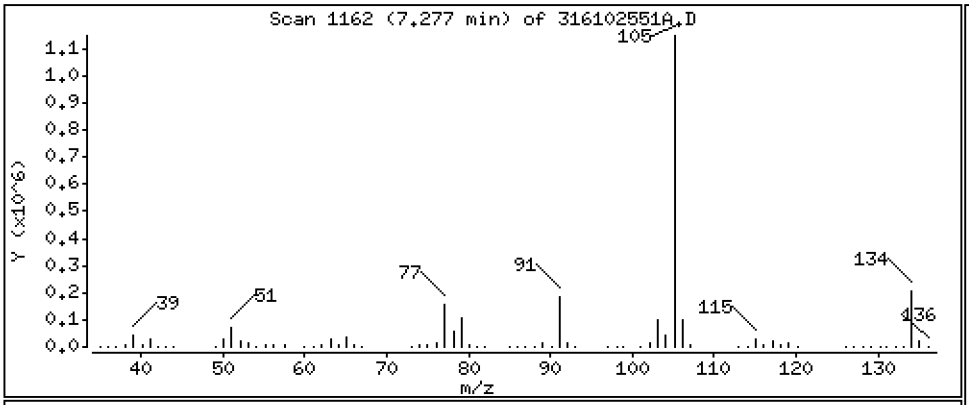
Client ID: Instrument: ms03.i

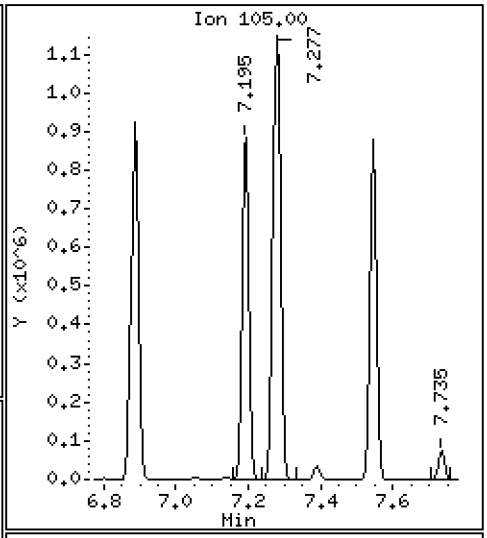
Sample Info: 1800;;1;2;4;;;

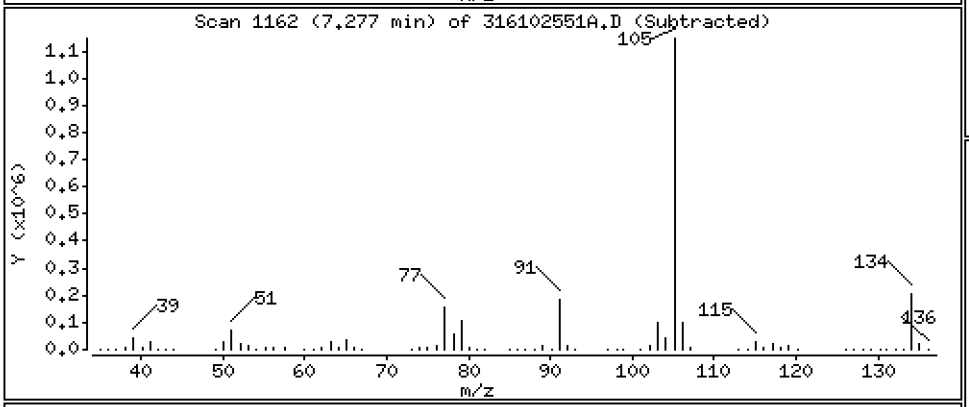
Purge Volume: 5.0 Operator: CJG

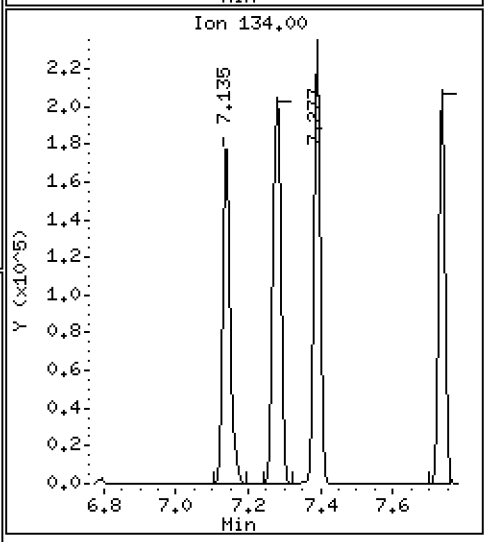
Column phase: DB-VRX Column diameter: 0.25

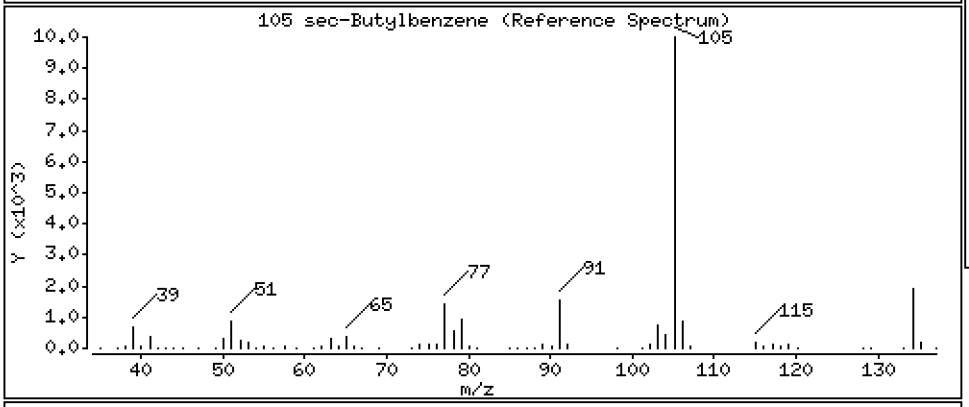
105 sec-Butylbenzene Concentration: 49.2879 ug/L

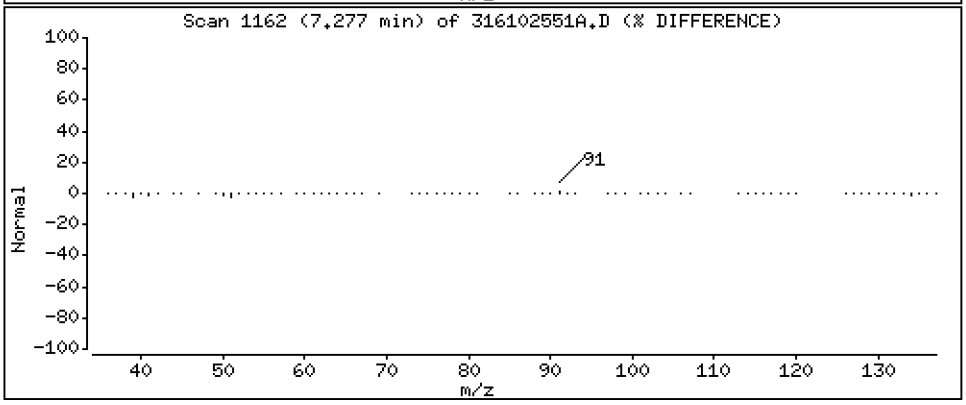












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 107

Date : 25-OCT-2016 21:59

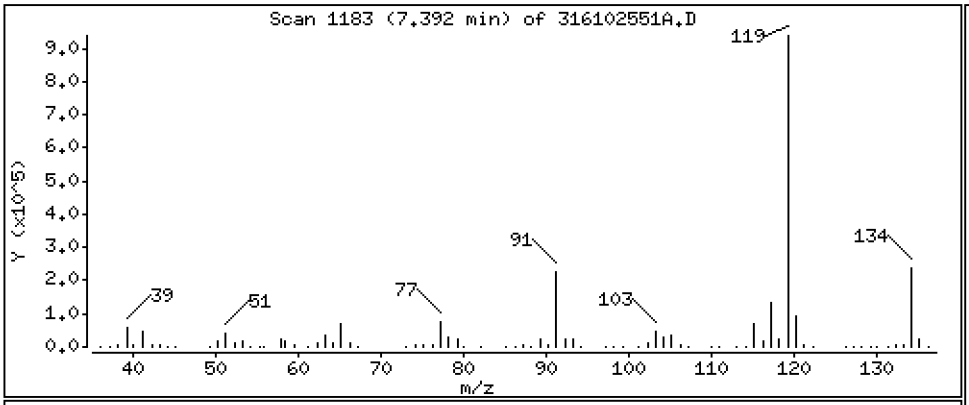
Client ID: Instrument: ms03.i

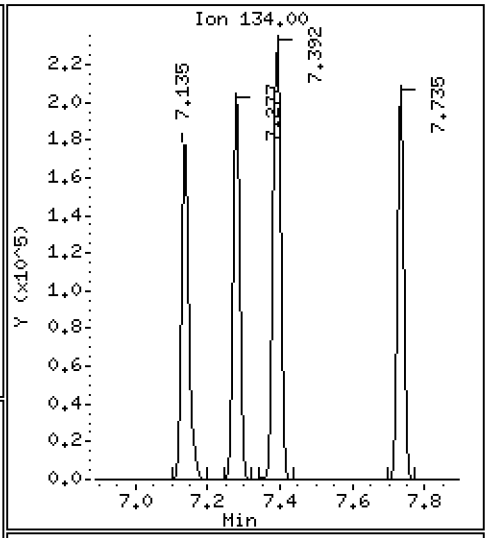
Sample Info: 1800;;1;2;4;;;

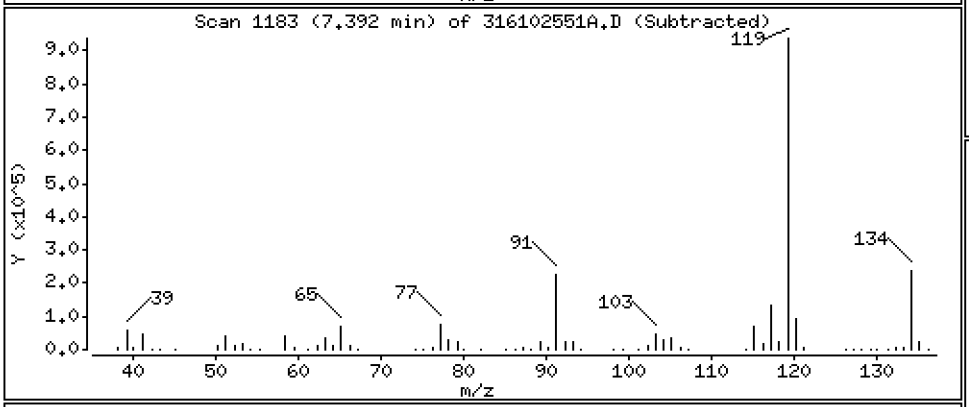
Purge Volume: 5.0 Operator: CJG

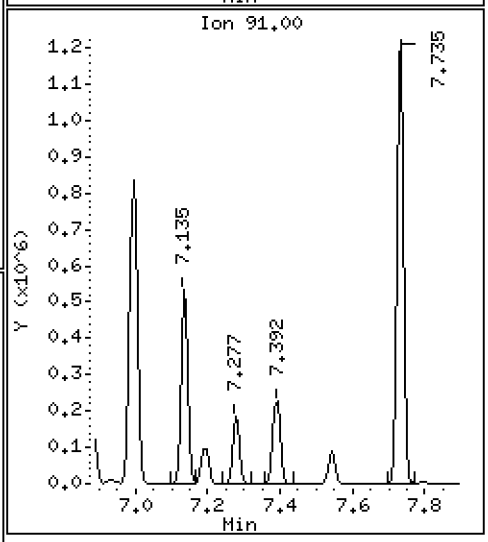
Column phase: DB-VRX Column diameter: 0.25

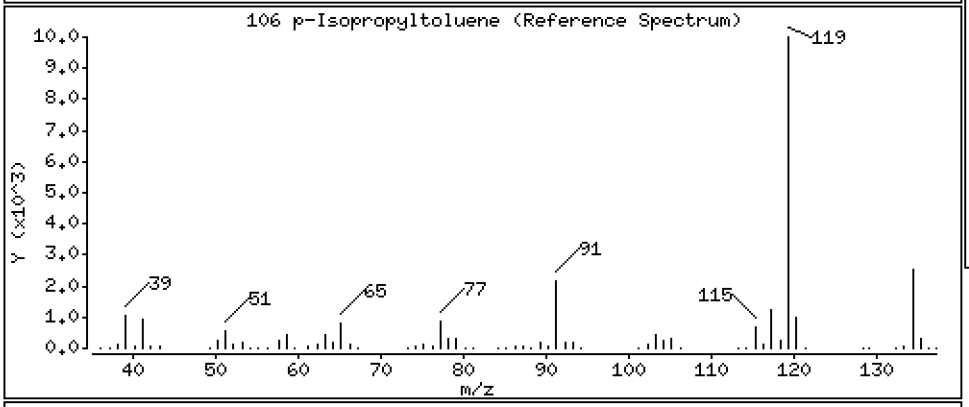
106 p-Isopropyltoluene Concentration: 50.5293 ug/L

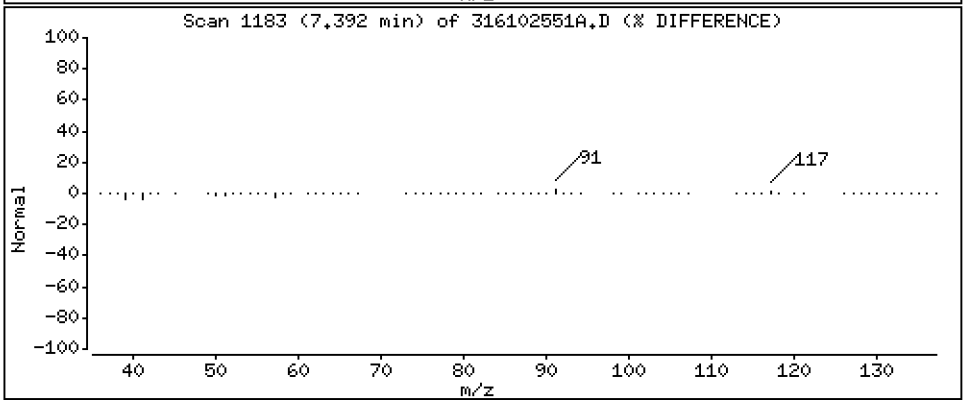












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 108

Date : 25-OCT-2016 21:59

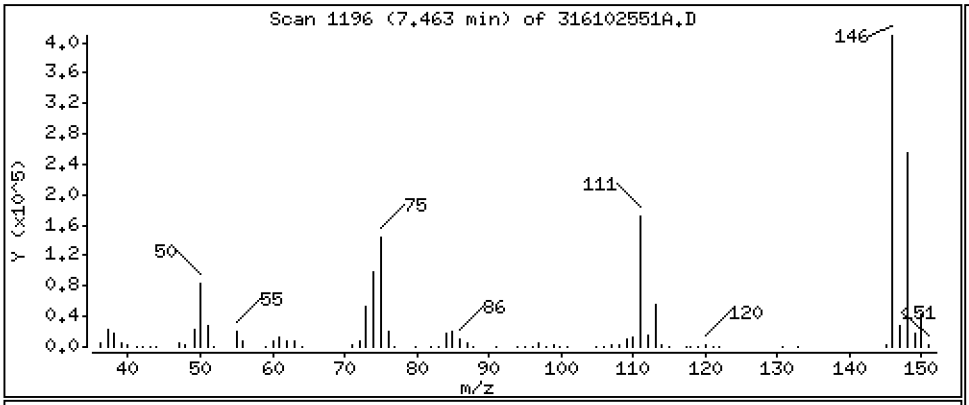
Client ID: Instrument: ms03.i

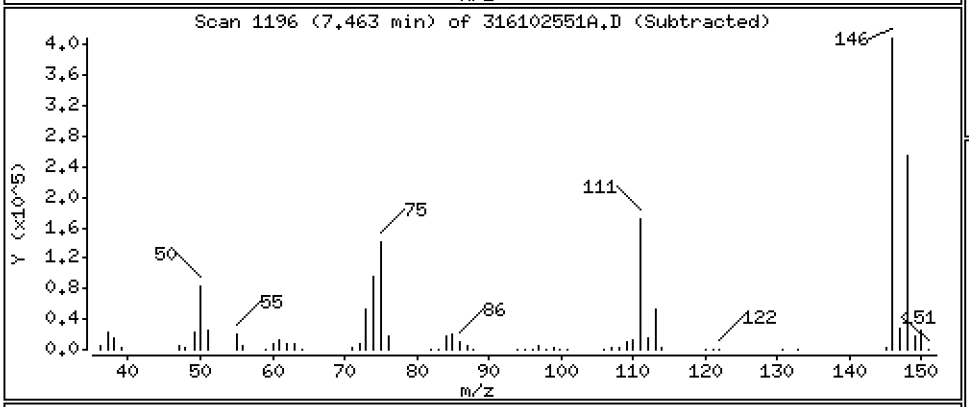
Sample Info: 1800;;1;2;4;;;

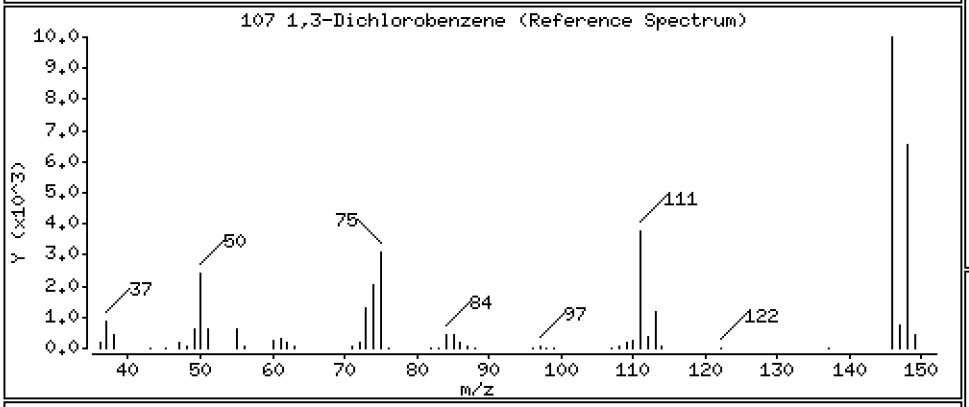
Purge Volume: 5.0 Operator: CJG

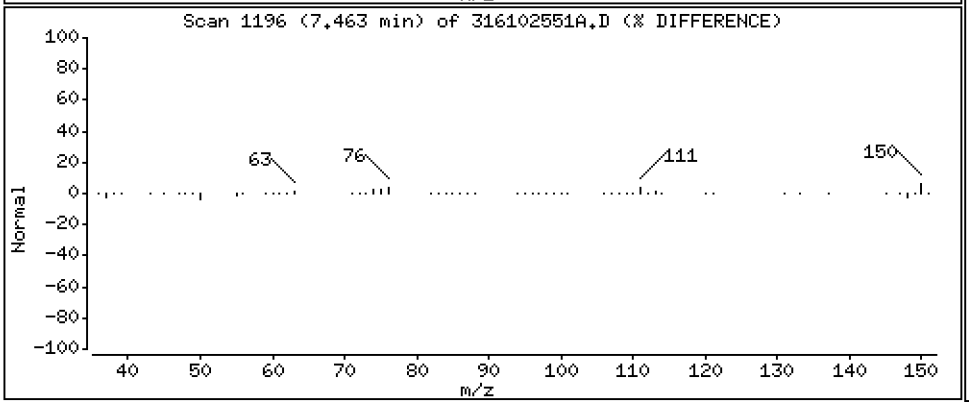
Column phase: DB-VRX Column diameter: 0.25

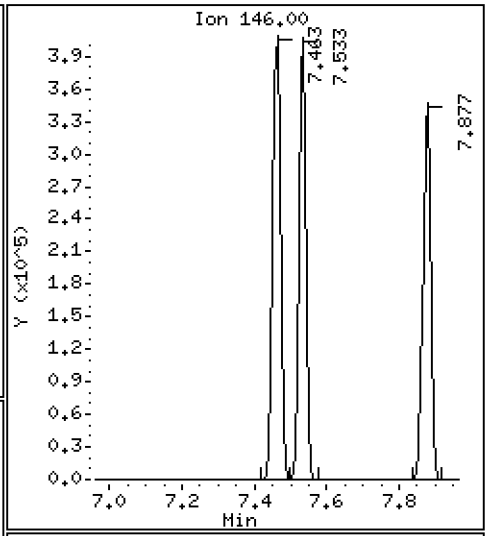
107 1,3-Dichlorobenzene Concentration: 47.5368 ug/L

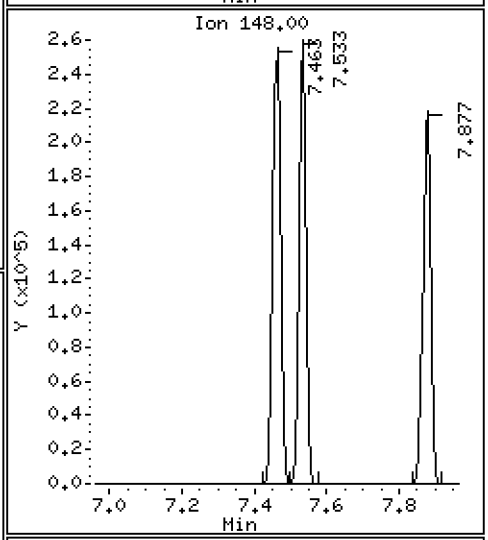


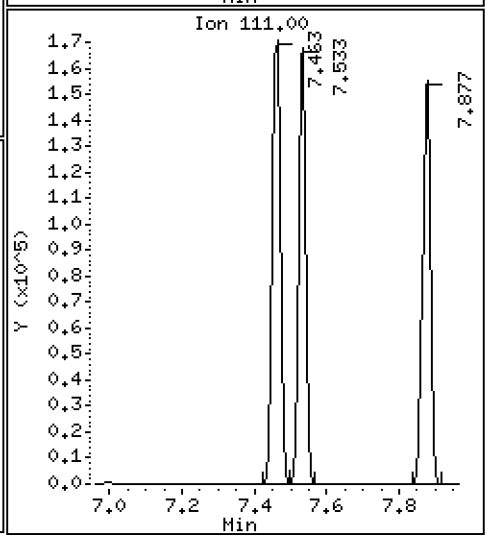












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 109

Date : 25-OCT-2016 21:59

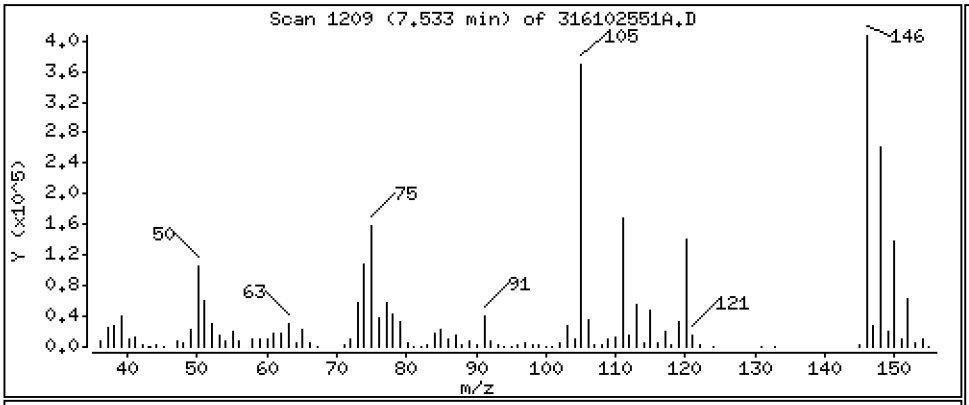
Client ID: Instrument: ms03.i

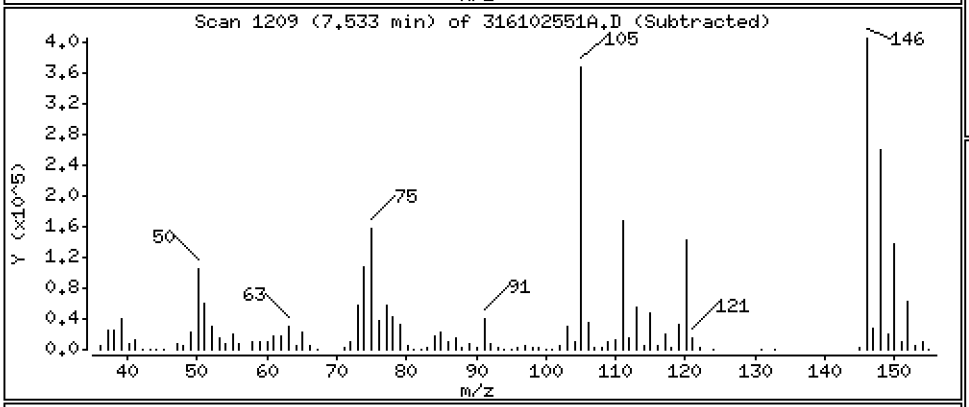
Sample Info: 1800;;1;2;4;;;

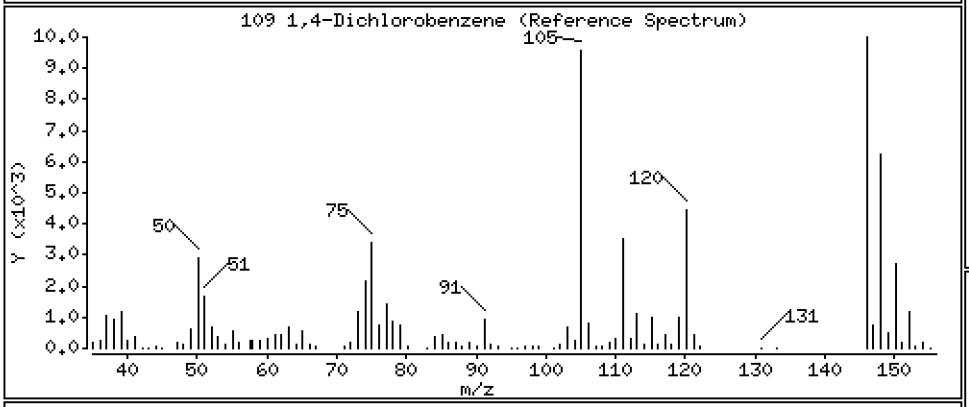
Purge Volume: 5.0 Operator: CJG

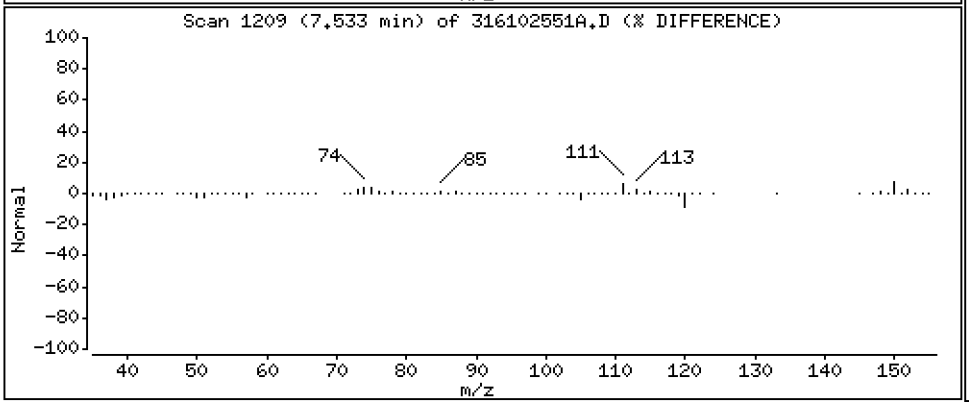
Column phase: DB-VRX Column diameter: 0.25

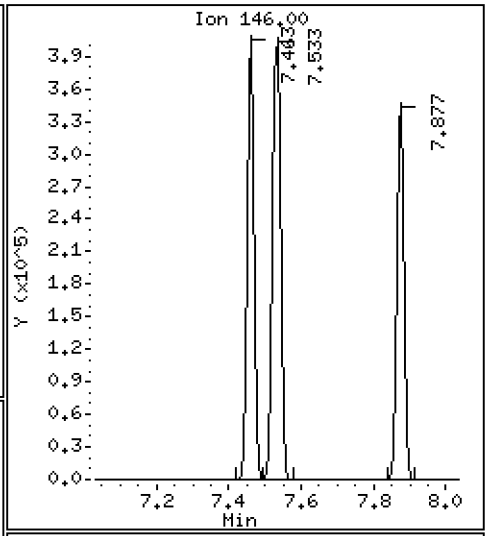
109 1,4-Dichlorobenzene Concentration: 47.6362 ug/L

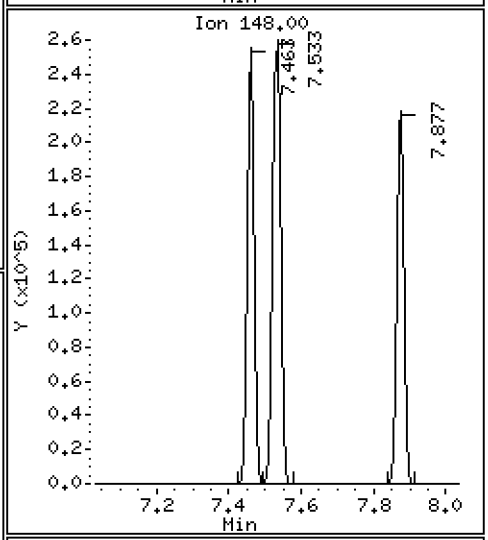


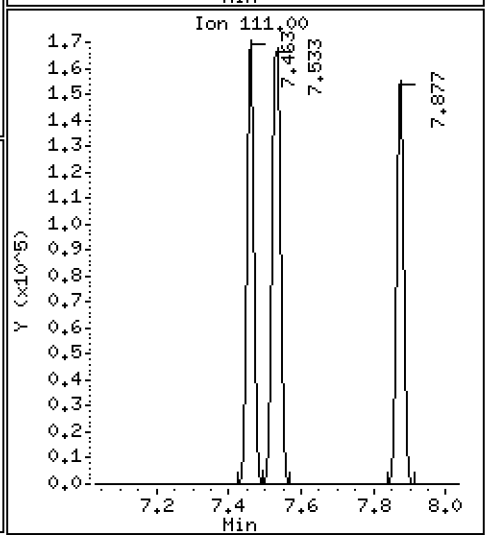












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 110

Date : 25-OCT-2016 21:59

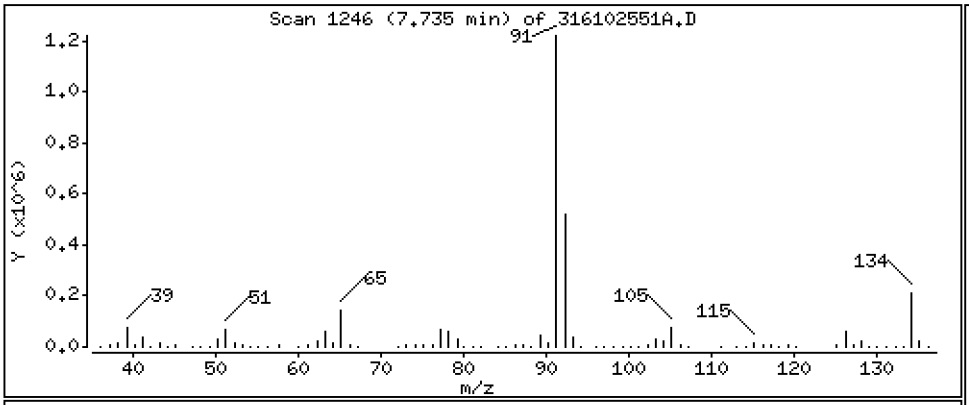
Client ID: Instrument: ms03.i

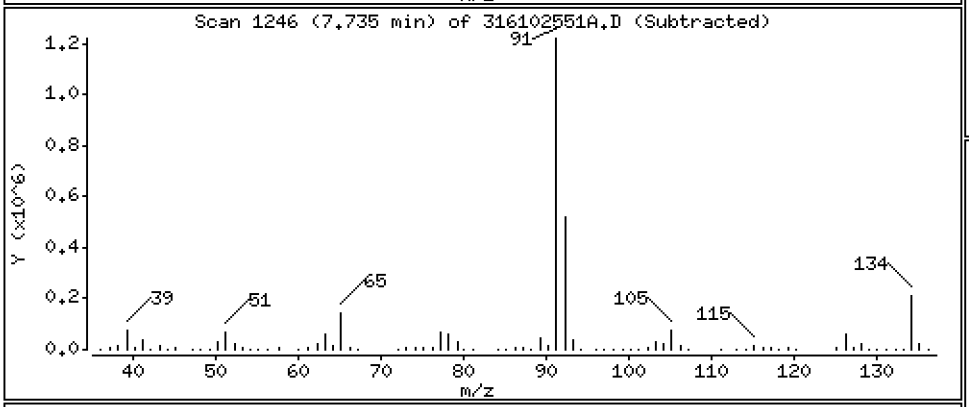
Sample Info: 1800;;1;2;4;;;

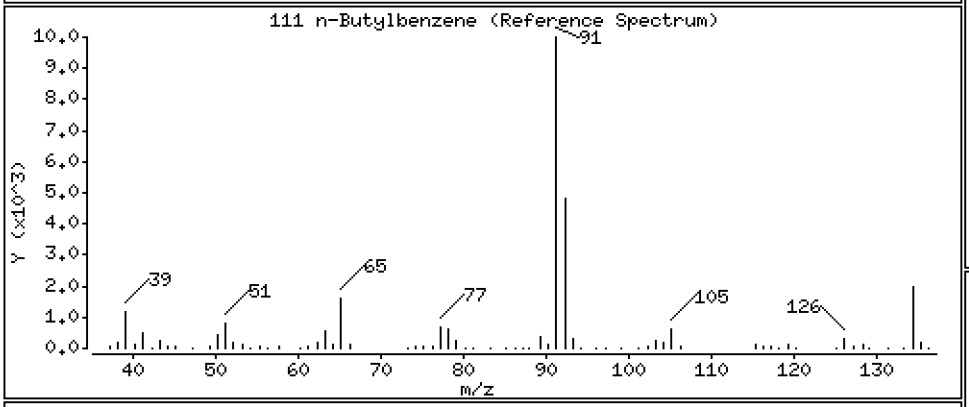
Purge Volume: 5.0 Operator: CJG

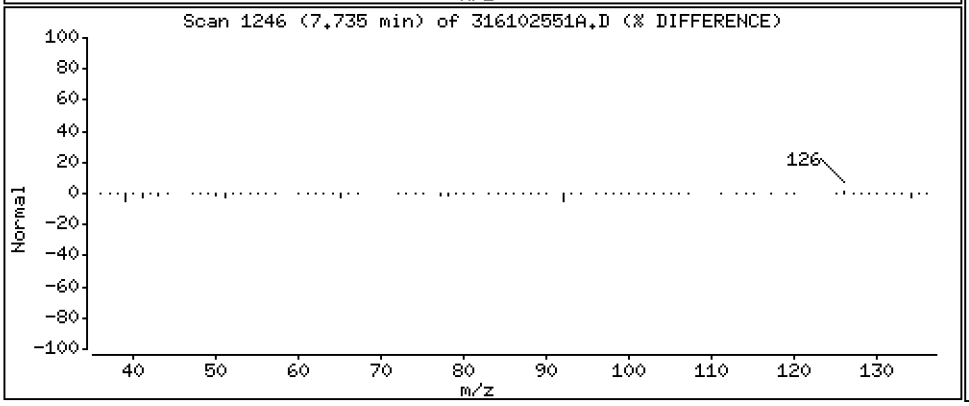
Column phase: DB-VRX Column diameter: 0.25

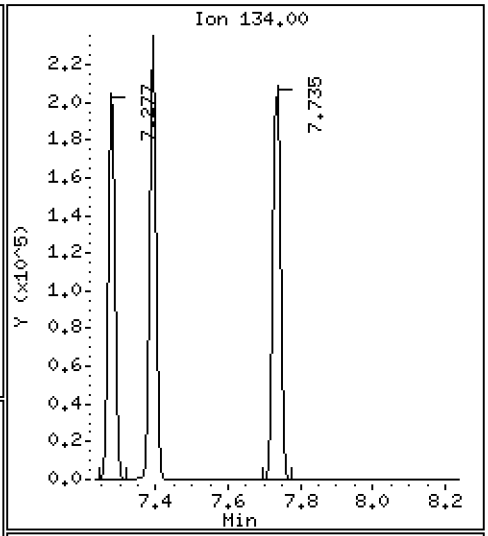
111 n-Butylbenzene Concentration: 50.6938 ug/L

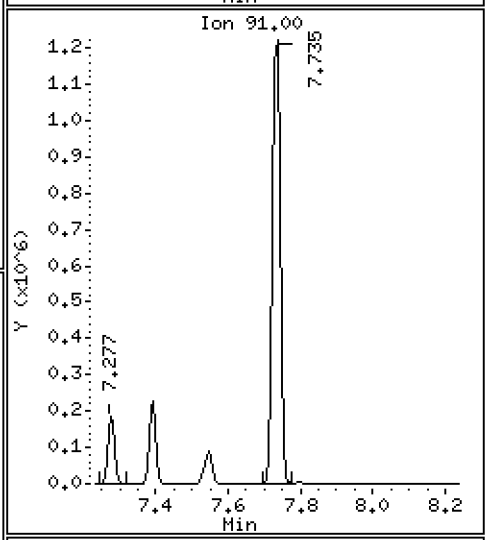


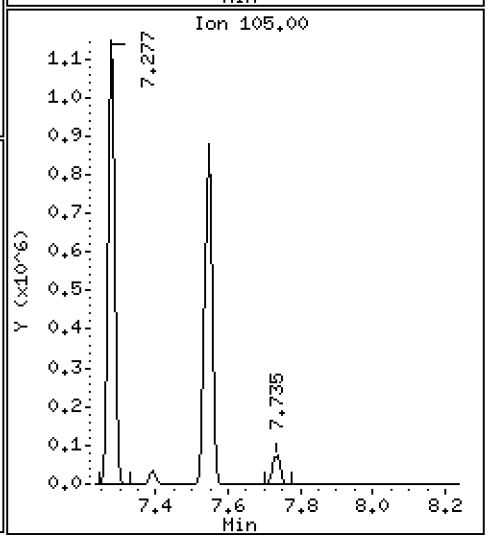












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 111

Date : 25-OCT-2016 21:59

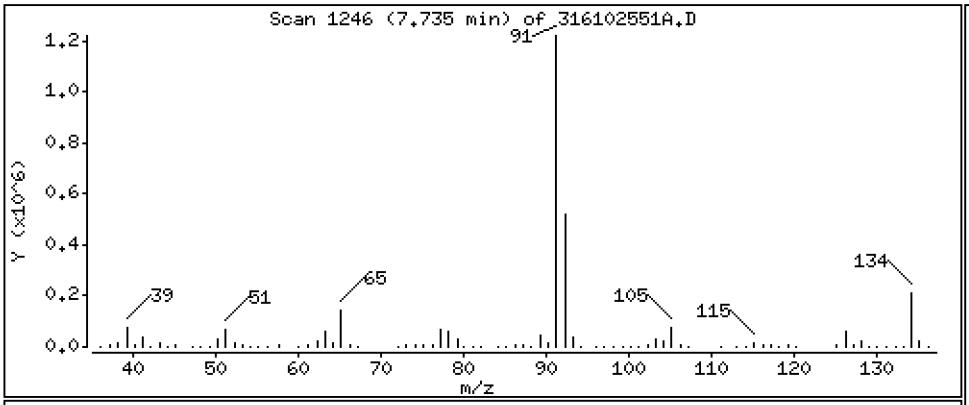
Client ID: Instrument: ms03.i

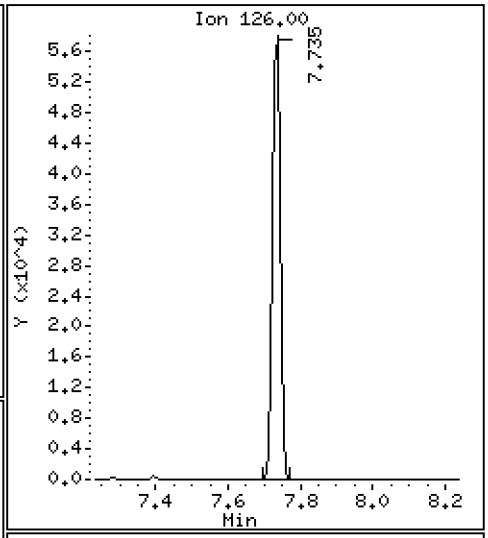
Sample Info: 1800;;1;2;4;;;

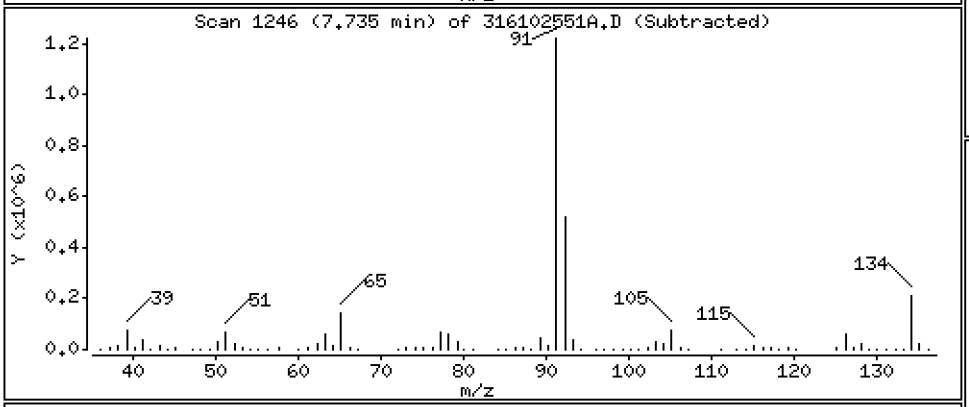
Purge Volume: 5.0 Operator: CJG

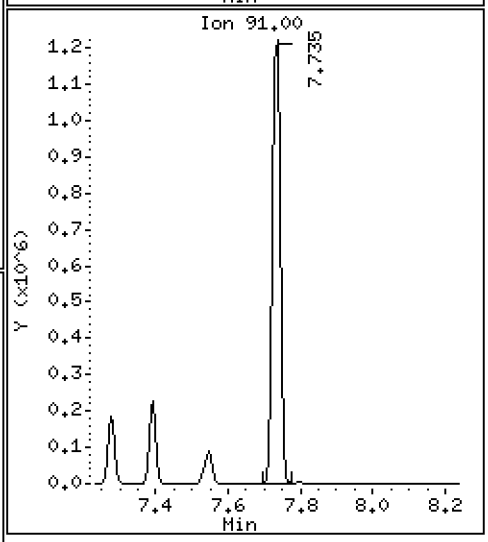
Column phase: DB-VRX Column diameter: 0.25

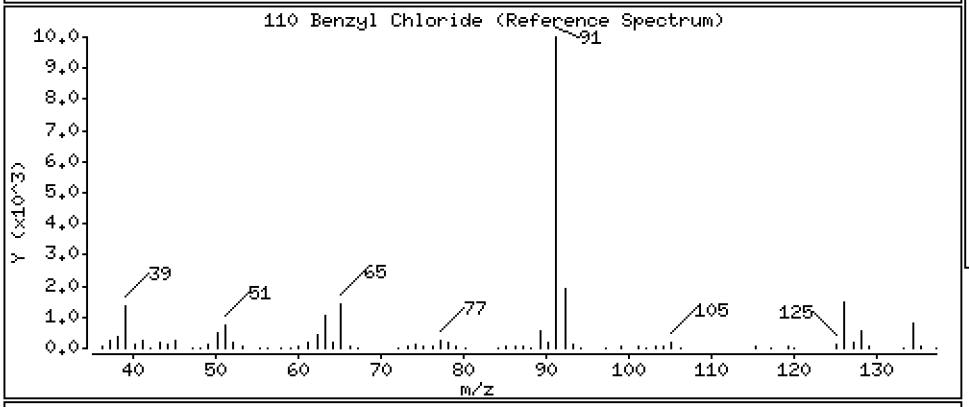
110 Benzyl Chloride Concentration: 47.5752 ug/L

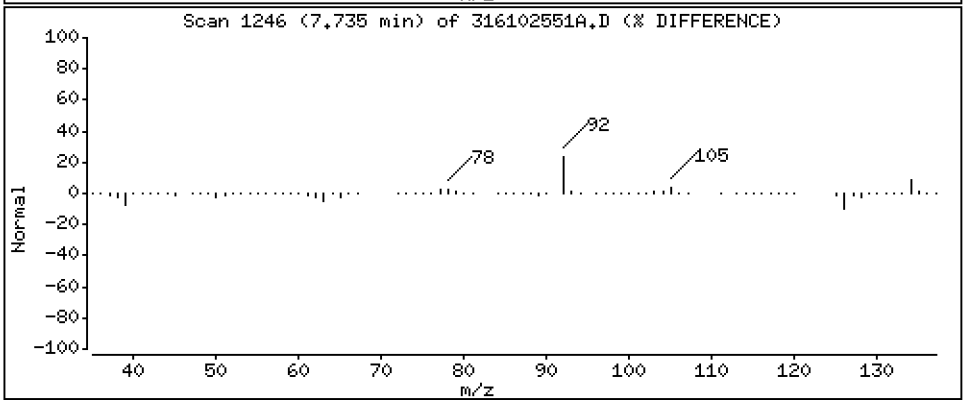












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 112

Date : 25-OCT-2016 21:59

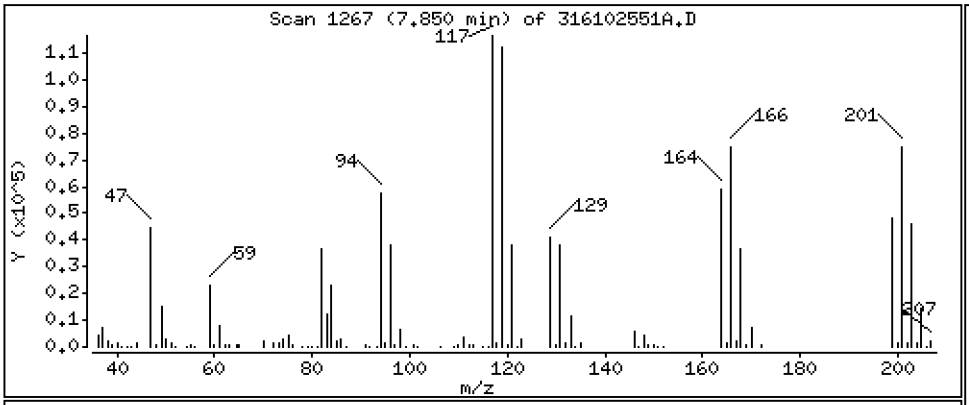
Client ID: Instrument: ms03.i

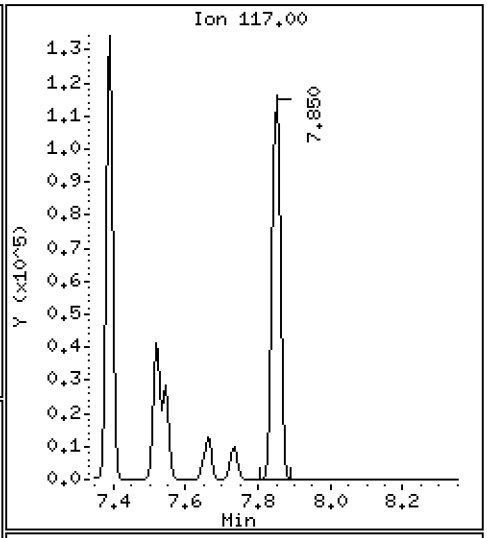
Sample Info: 1800;;1;2;4;;;

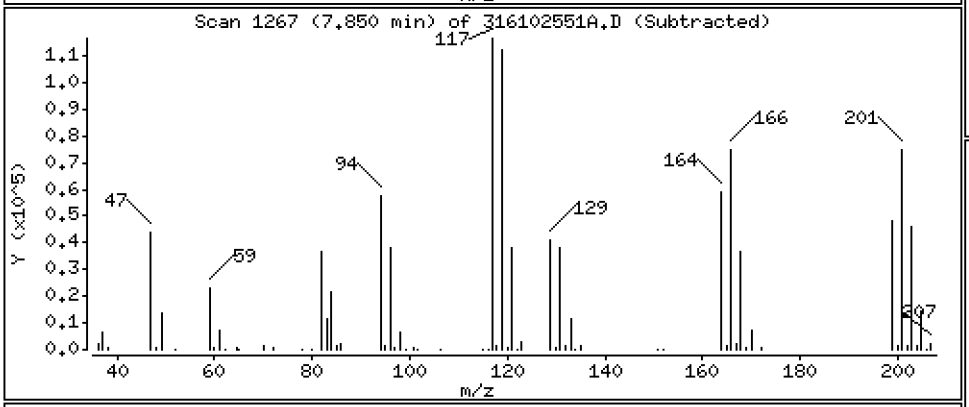
Purge Volume: 5.0 Operator: CJG

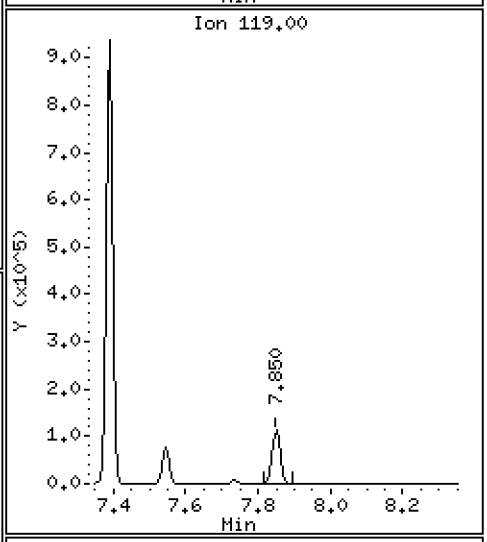
Column phase: DB-VRX Column diameter: 0.25

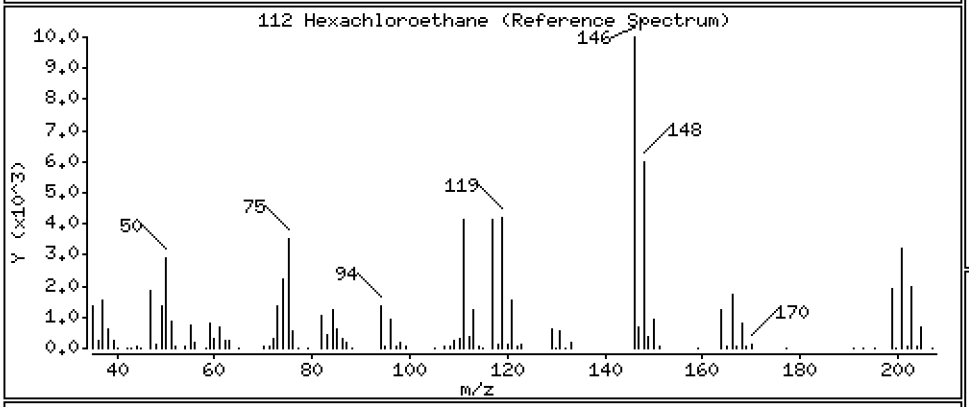
112 Hexachloroethane Concentration: 45.7493 ug/L

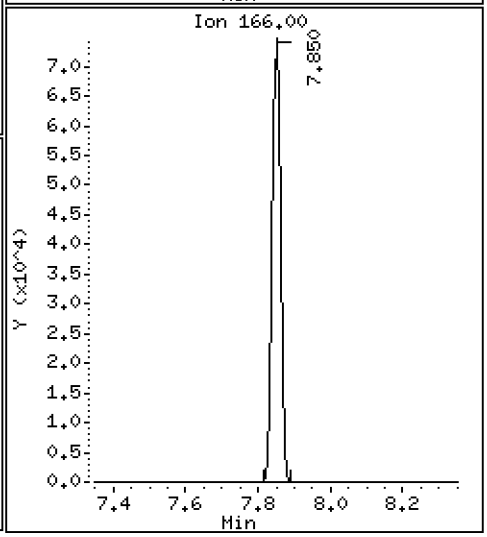


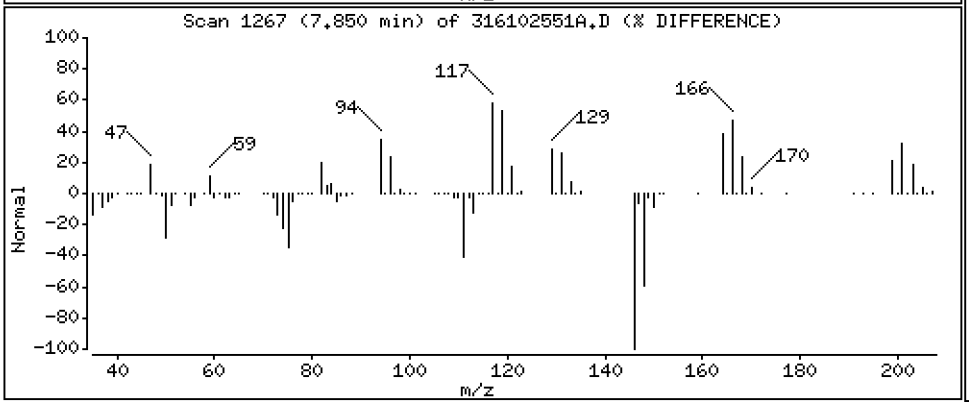












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 113

Date : 25-OCT-2016 21:59

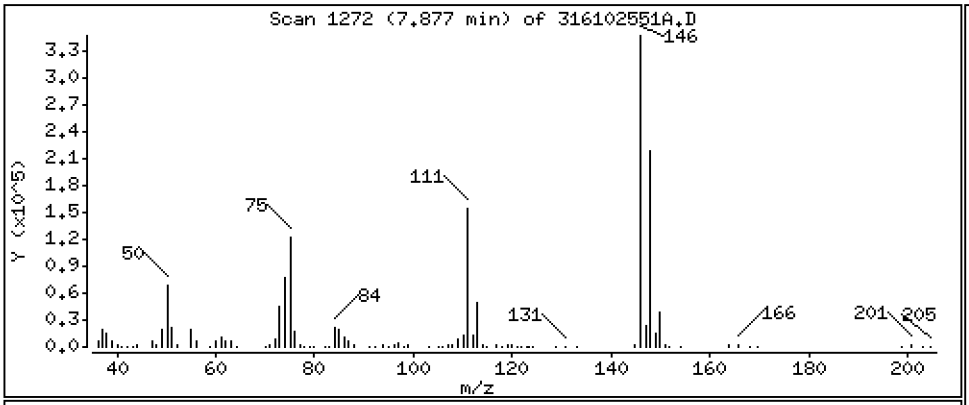
Client ID: Instrument: ms03.i

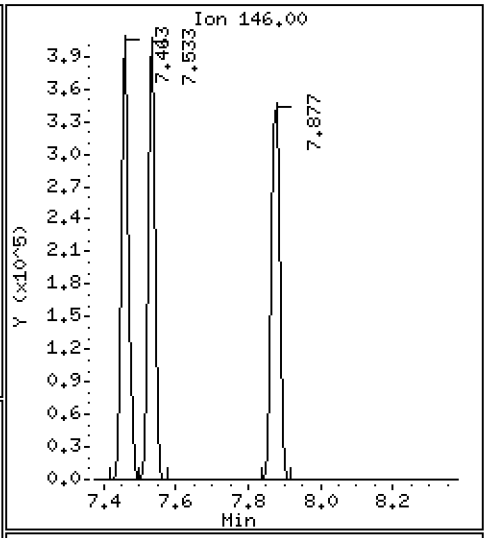
Sample Info: 1800;;1;2;4;;;

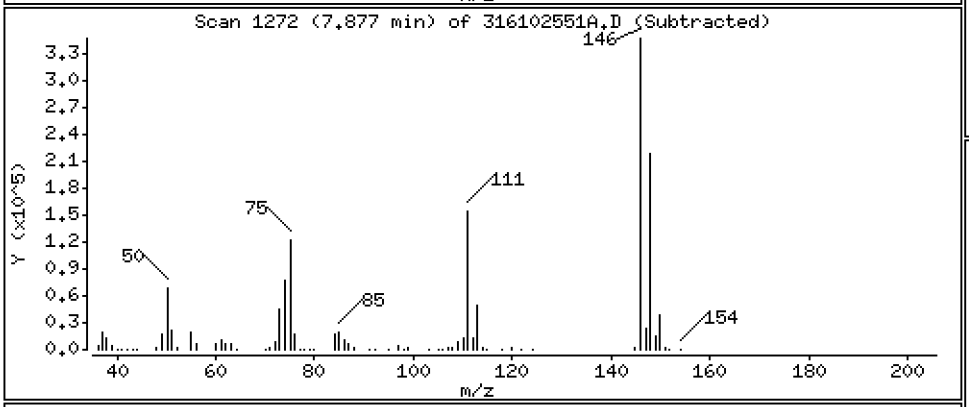
Purge Volume: 5.0 Operator: CJG

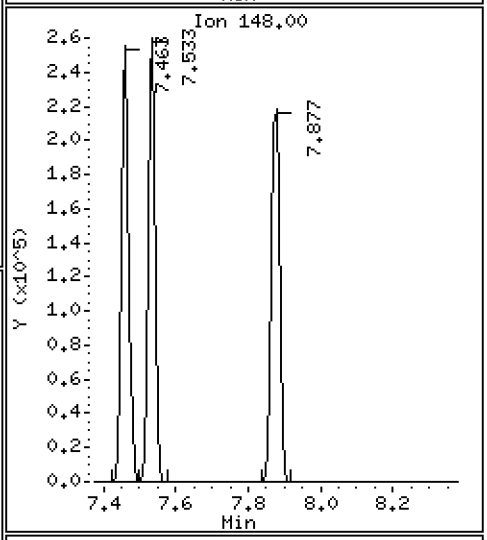
Column phase: DB-VRX Column diameter: 0.25

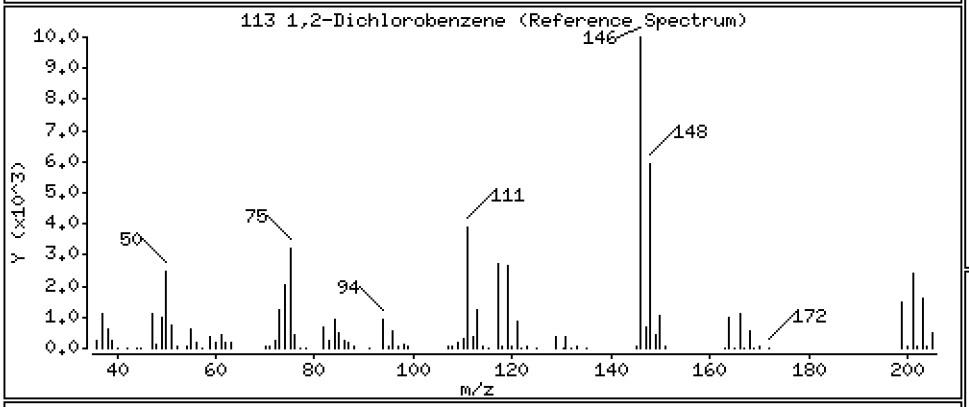
113 1,2-Dichlorobenzene Concentration: 47.1290 ug/L

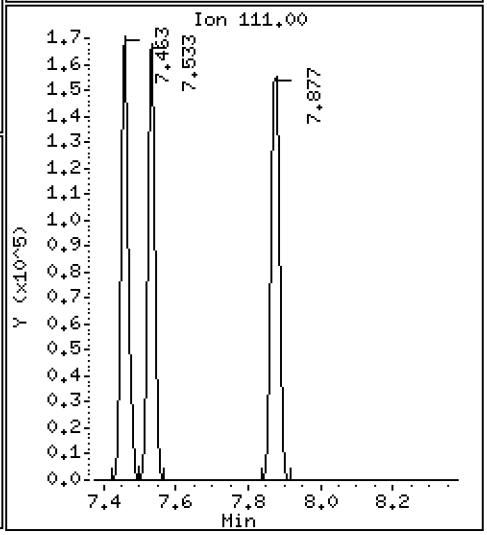


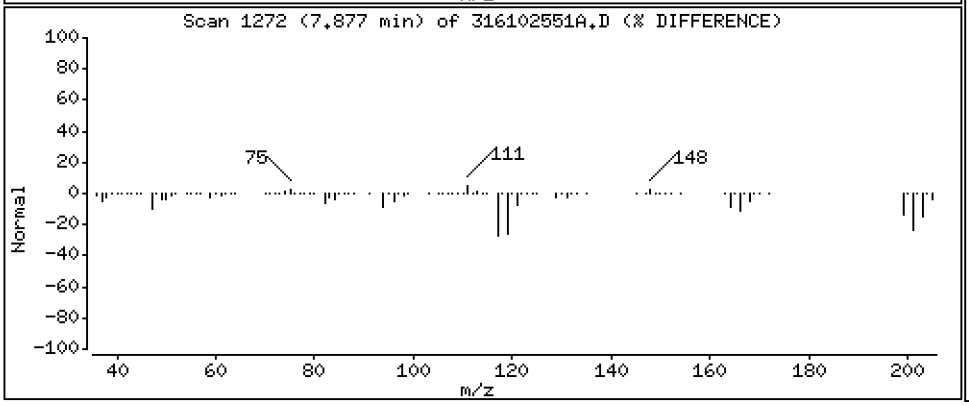












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 114

Date : 25-OCT-2016 21:59

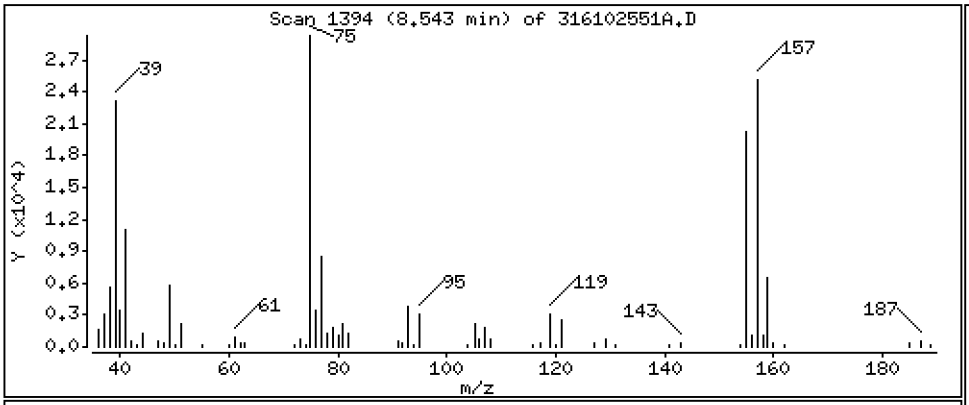
Client ID: Instrument: ms03.i

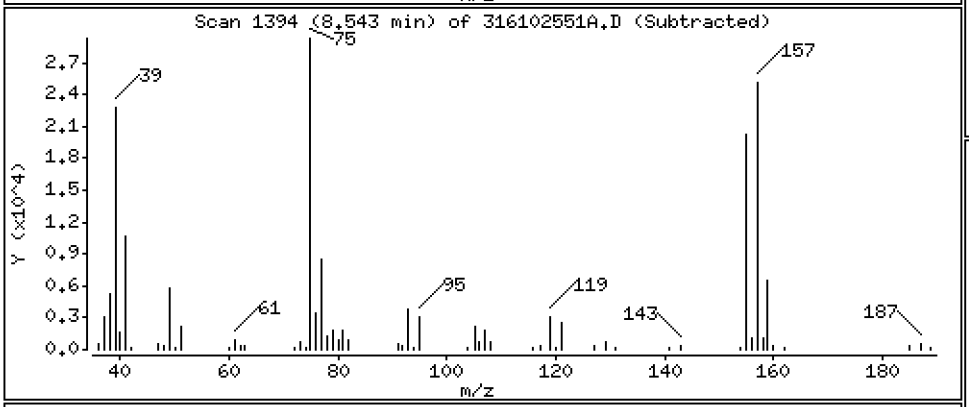
Sample Info: 1800;;1;2;4;;;

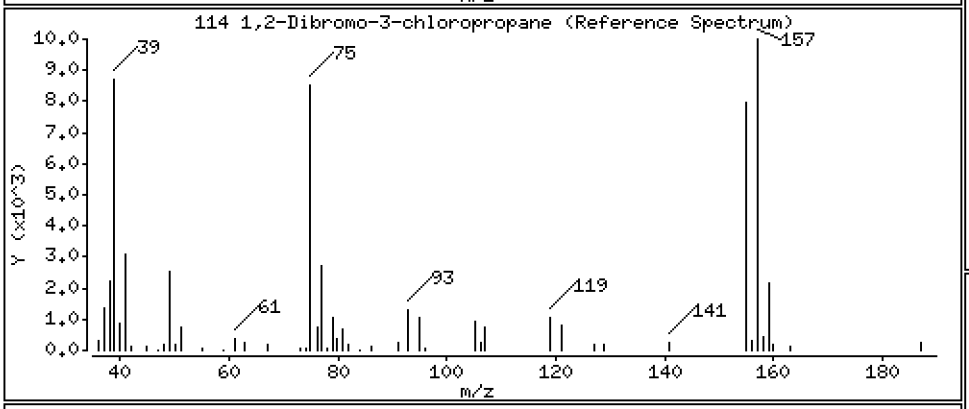
Purge Volume: 5.0 Operator: CJG

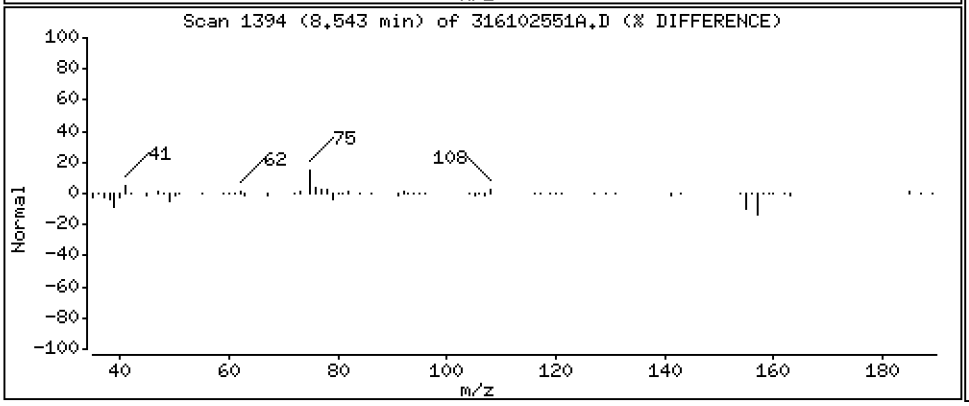
Column phase: DB-VRX Column diameter: 0.25

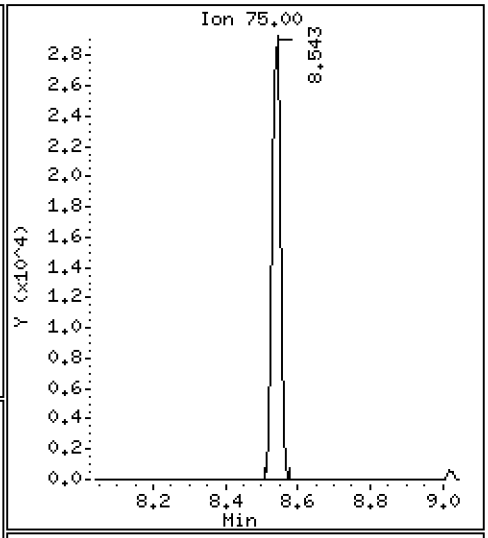
114 1,2-Dibromo-3-chloropropane Concentration: 46.6957 ug/L

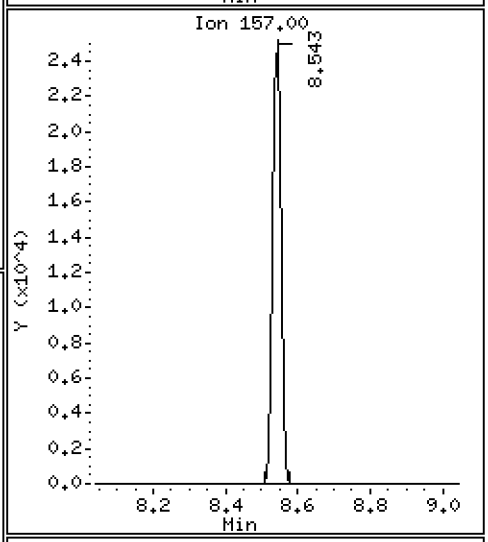


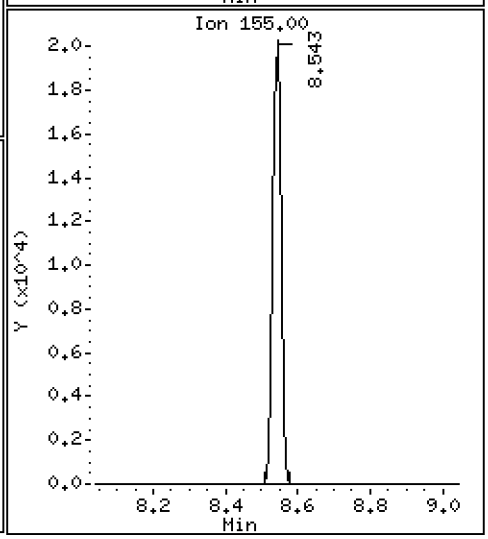












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 115

Date : 25-OCT-2016 21:59

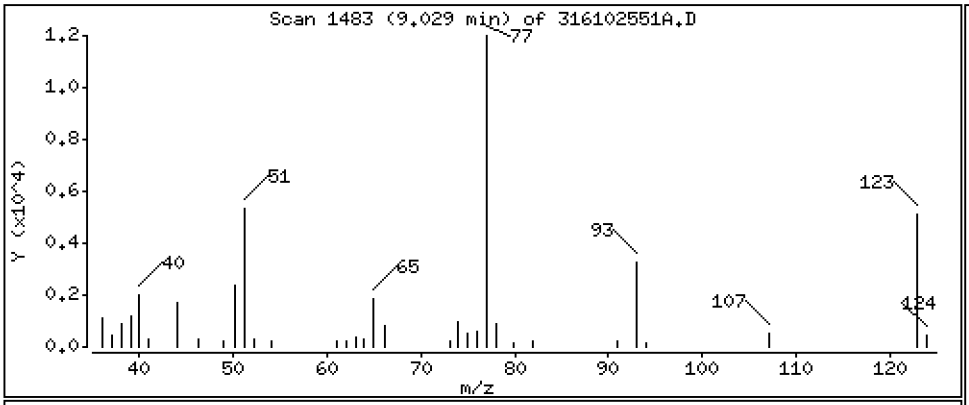
Client ID: Instrument: ms03.i

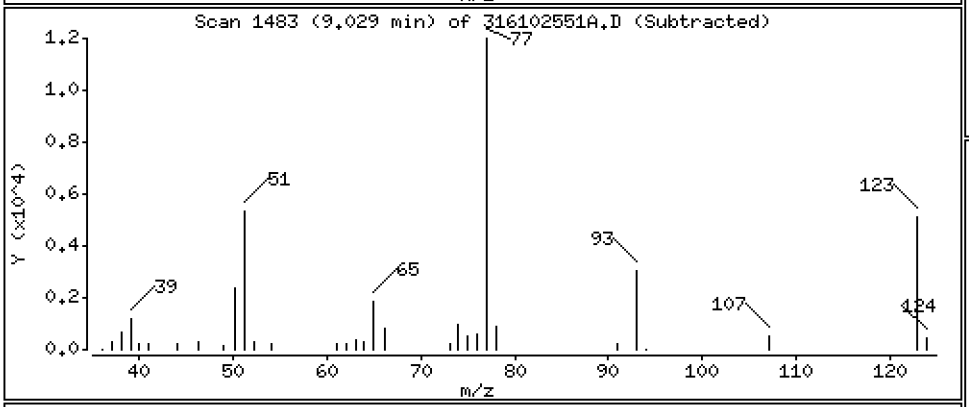
Sample Info: 1800;;1;2;4;;;

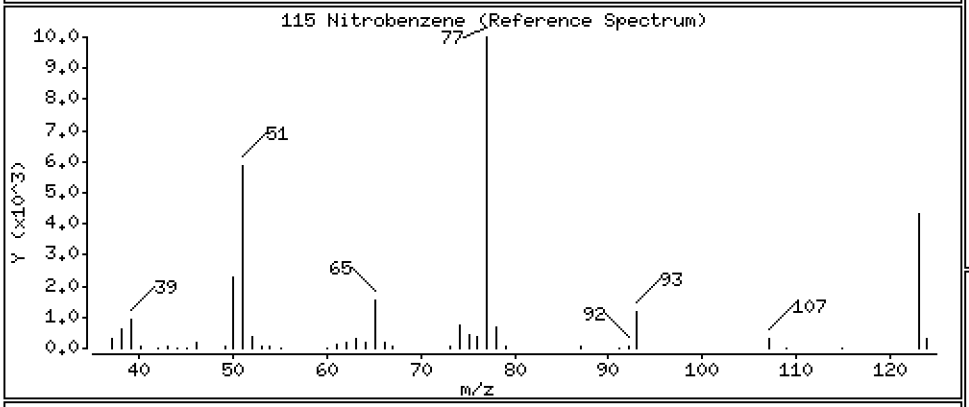
Purge Volume: 5.0 Operator: CJG

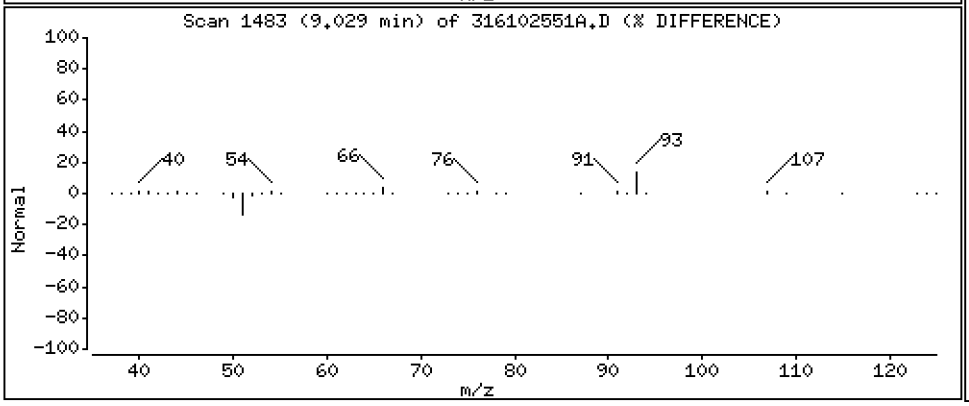
Column phase: DB-VRX Column diameter: 0.25

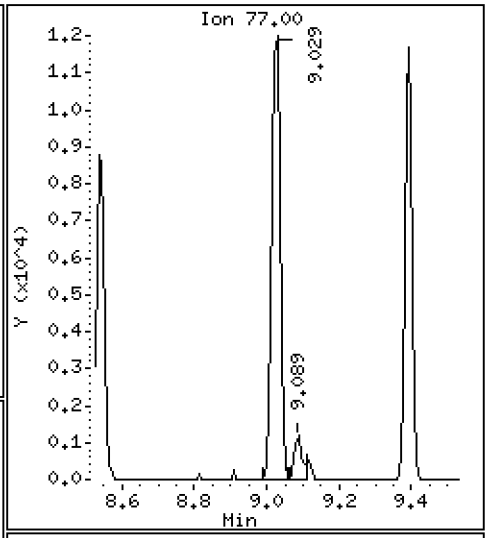
115 Nitrobenzene Concentration: 370.777 ug/L

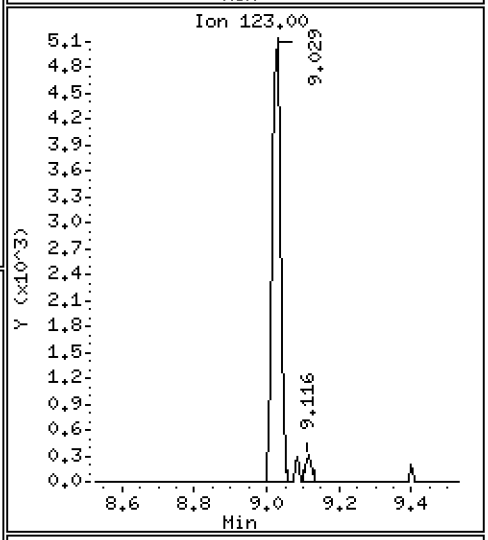


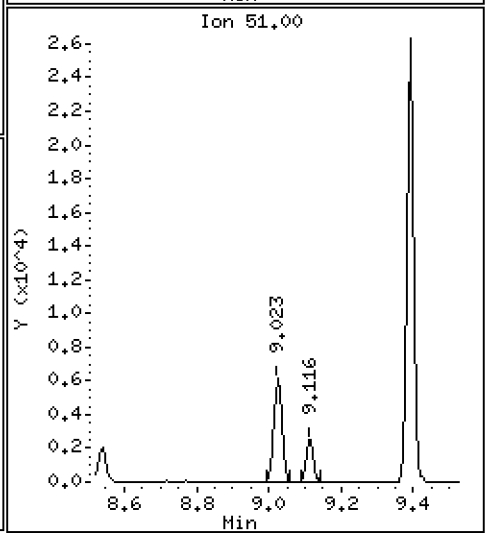












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 116

Date : 25-OCT-2016 21:59

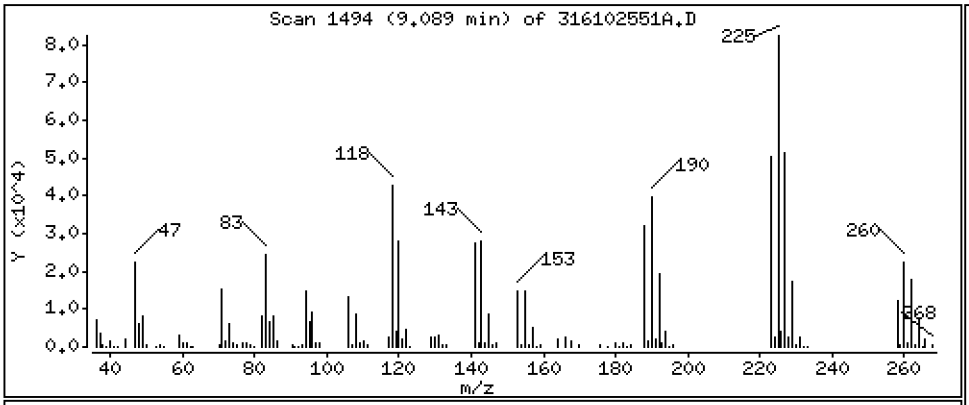
Client ID: Instrument: ms03.i

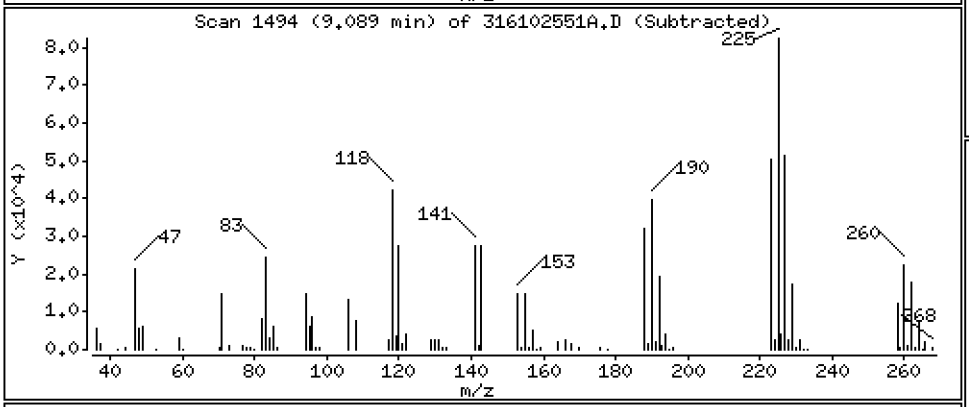
Sample Info: 1800;;1;2;4;;;

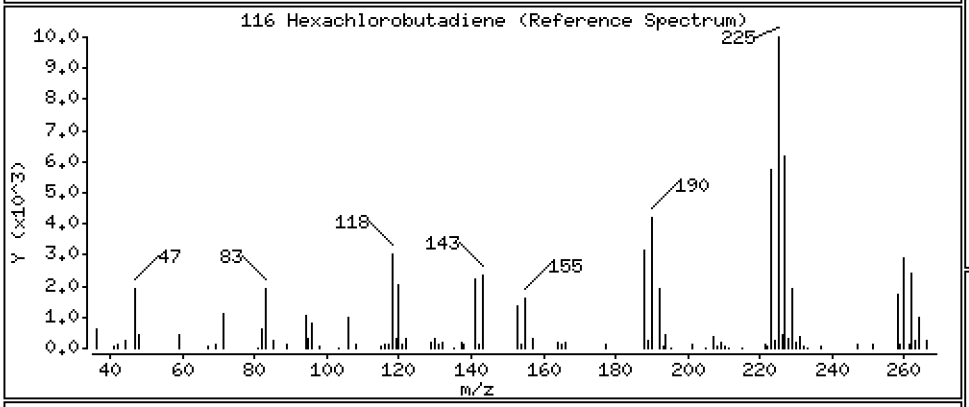
Purge Volume: 5.0 Operator: CJG

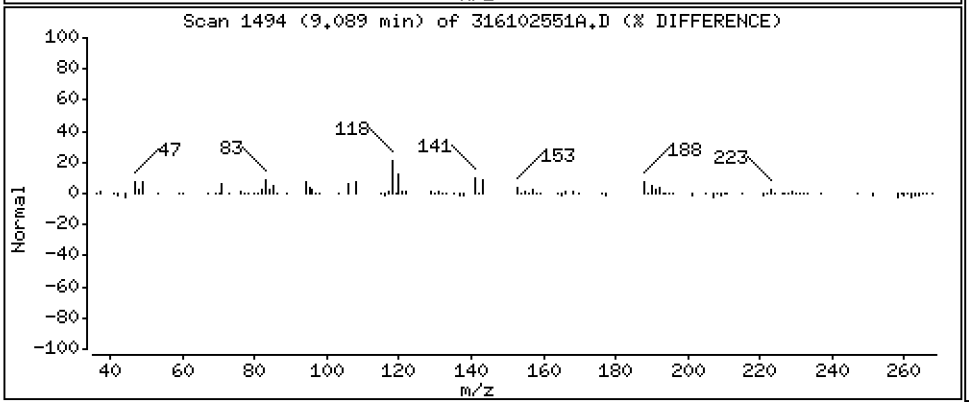
Column phase: DB-VRX Column diameter: 0.25

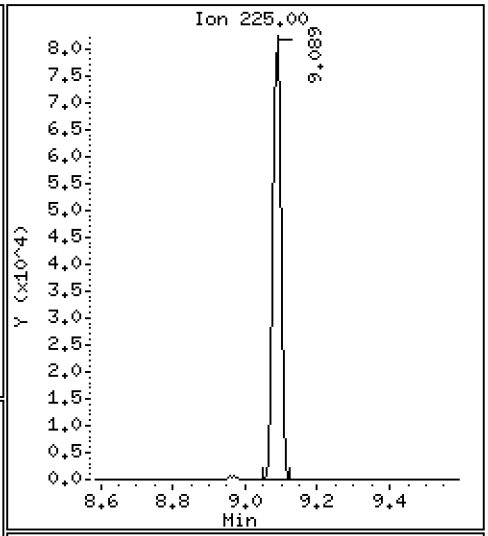
116 Hexachlorobutadiene Concentration: 56.8963 ug/L

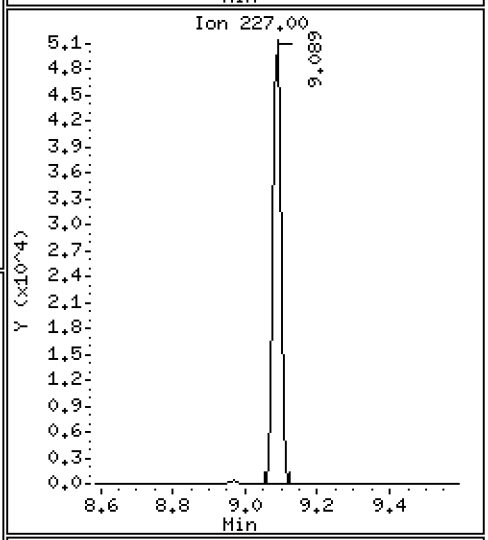


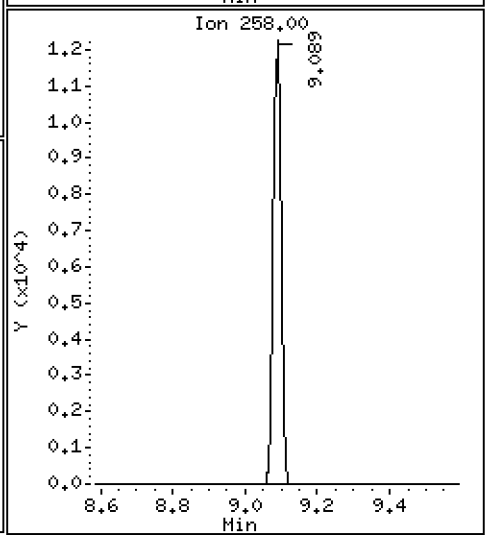












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 117

Date : 25-OCT-2016 21:59

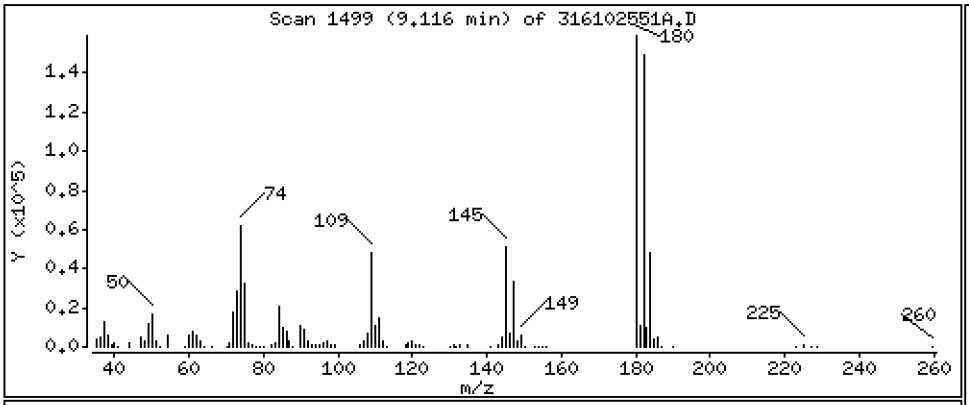
Client ID: Instrument: ms03.i

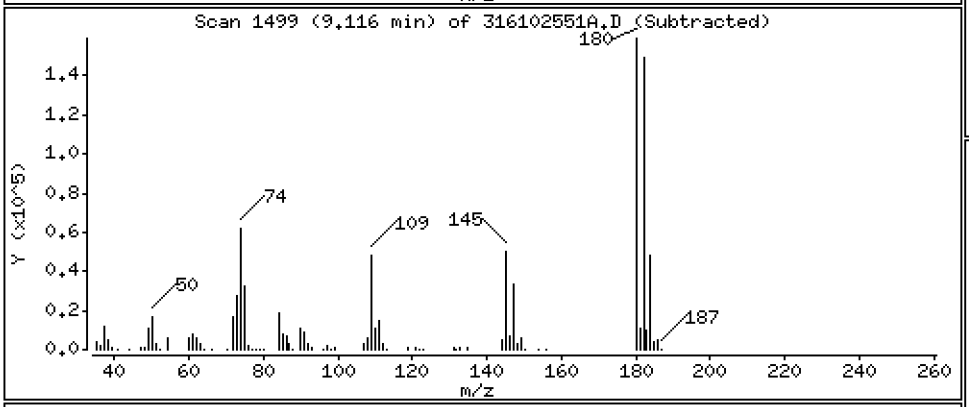
Sample Info: 1800;;1;2;4;;;

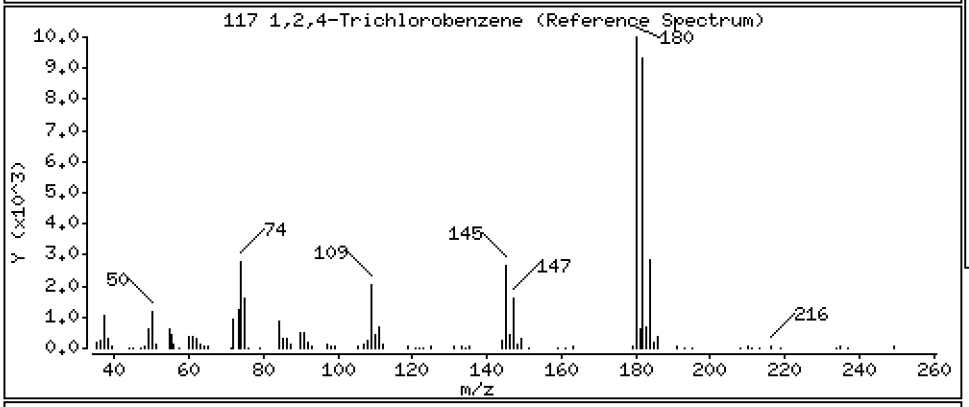
Purge Volume: 5.0 Operator: CJG

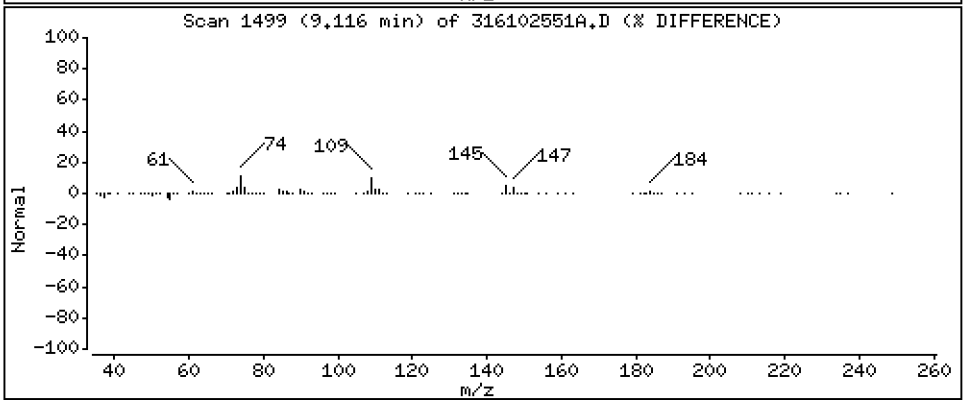
Column phase: DB-VRX Column diameter: 0.25

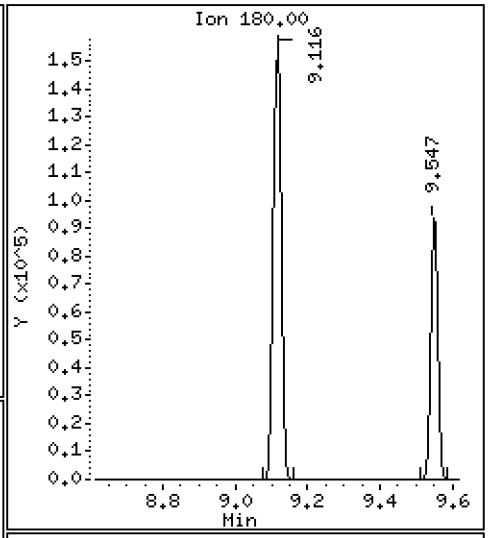
117 1,2,4-Trichlorobenzene Concentration: 47.3381 ug/L

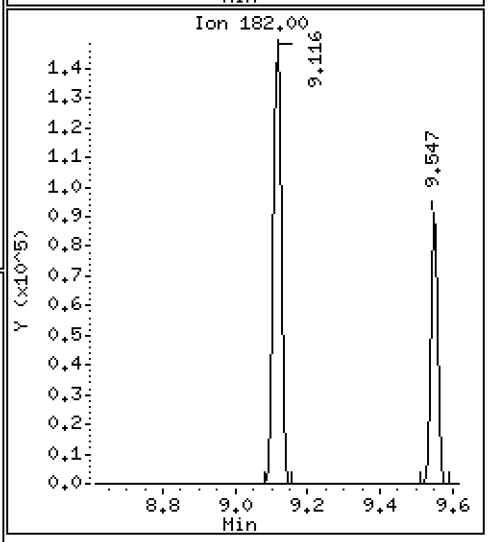












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 118

Date : 25-OCT-2016 21:59

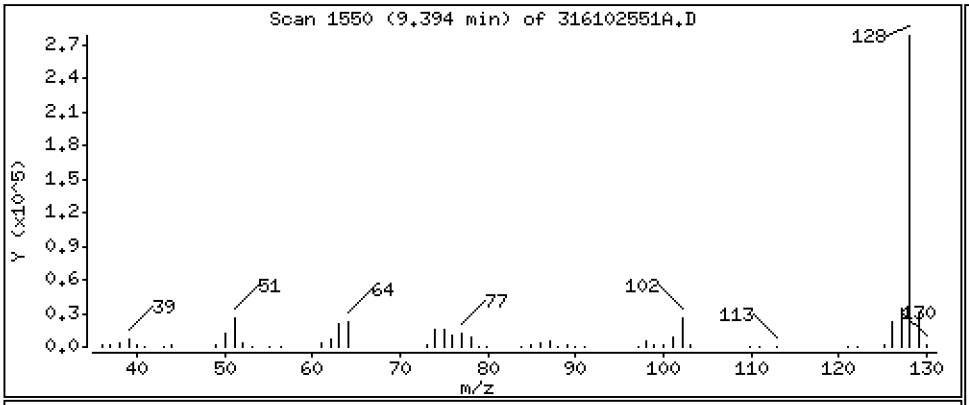
Client ID: Instrument: ms03.i

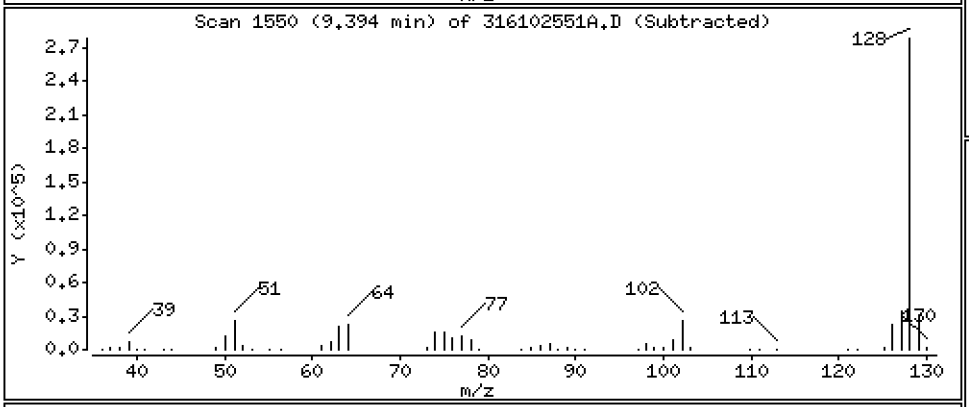
Sample Info: 1800;;1;2;4;;;

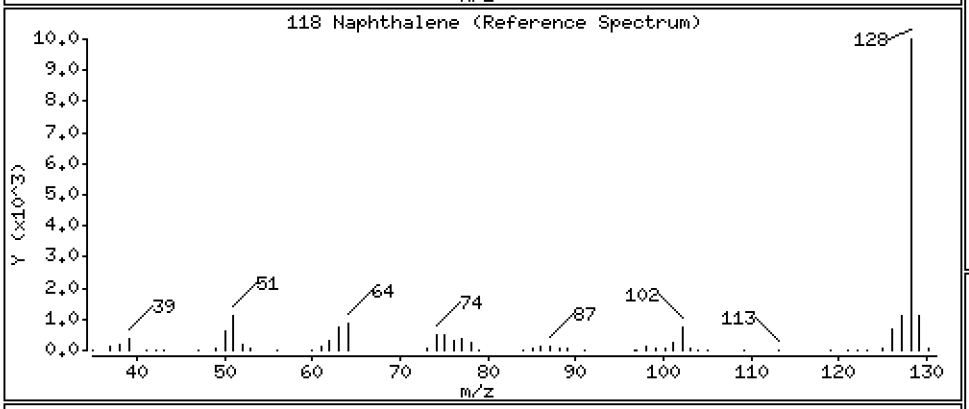
Purge Volume: 5.0 Operator: CJG

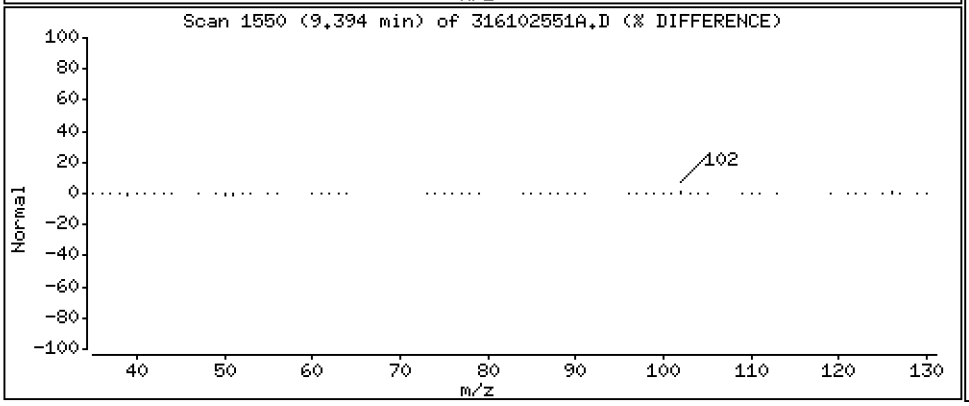
Column phase: DB-VRX Column diameter: 0.25

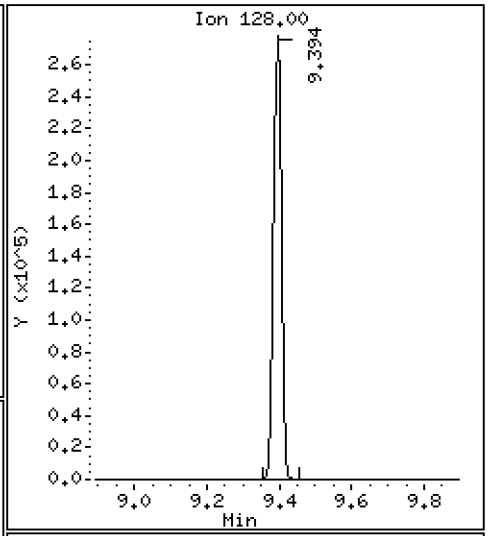
118 Naphthalene Concentration: 45.1116 ug/L

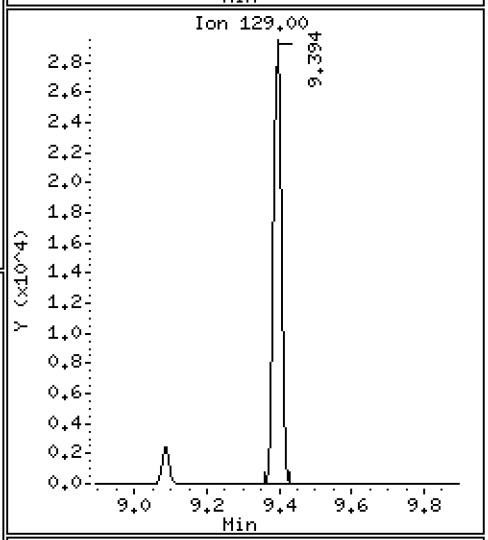


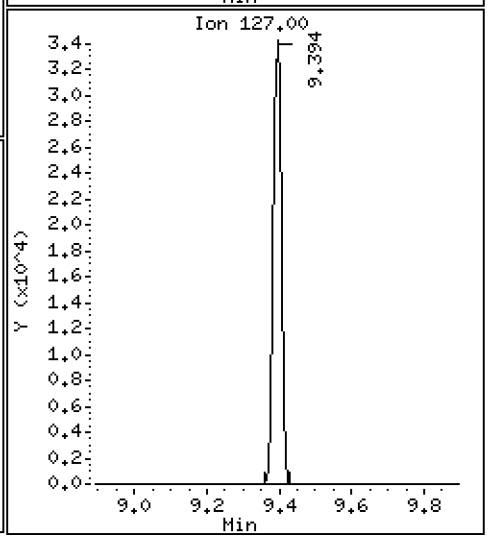












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102551A.D Page 119

Date : 25-OCT-2016 21:59

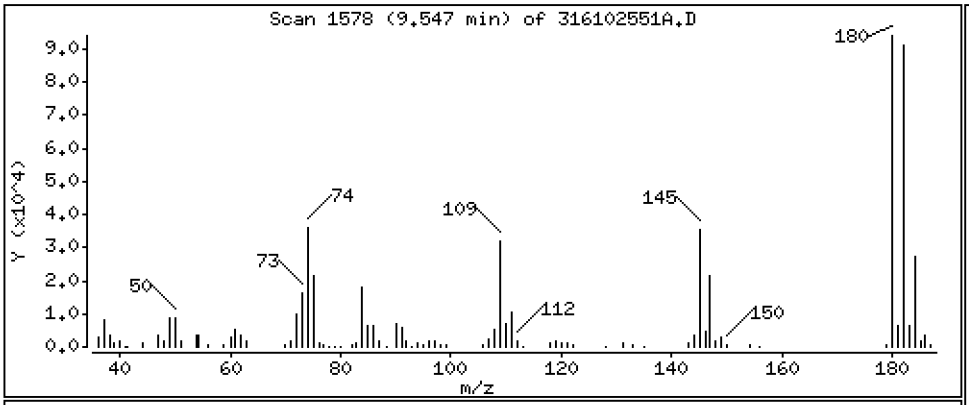
Client ID: Instrument: ms03.i

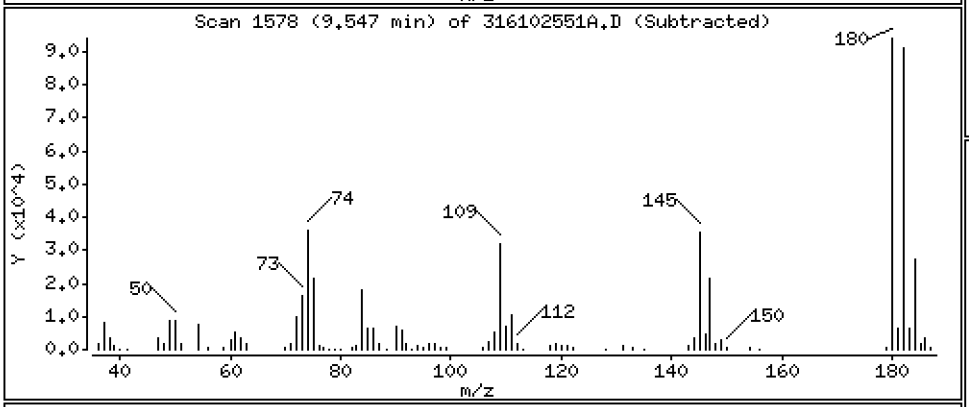
Sample Info: 1800;;1;2;4;;;

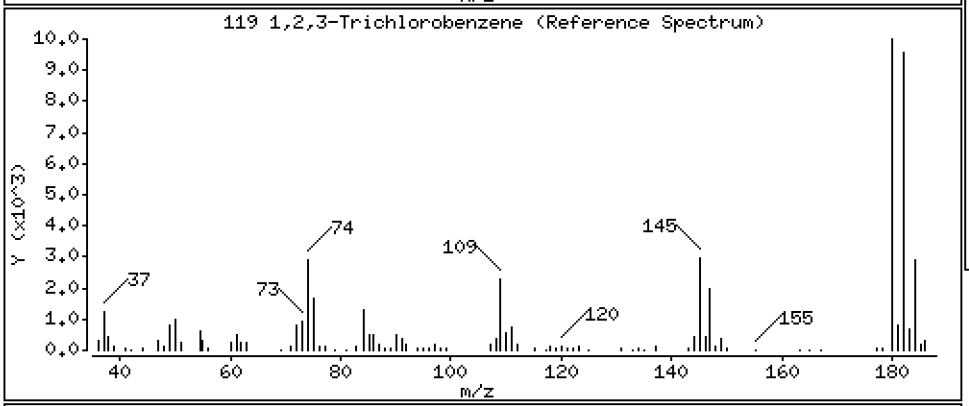
Purge Volume: 5.0 Operator: CJG

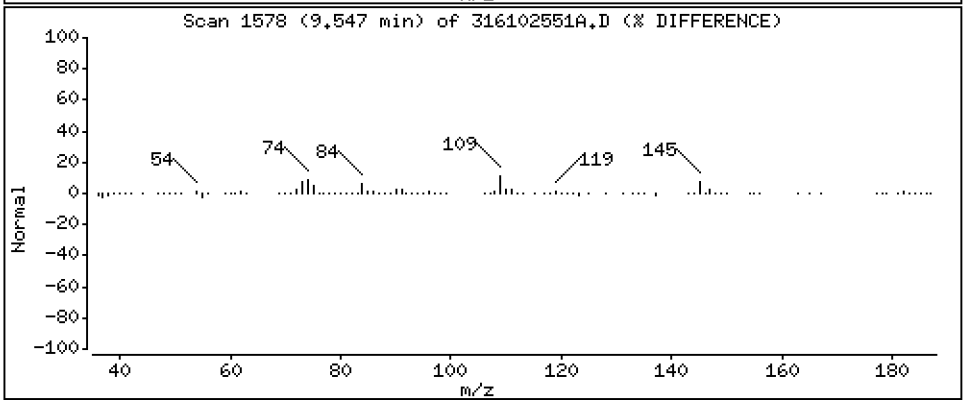
Column phase: DB-VRX Column diameter: 0.25

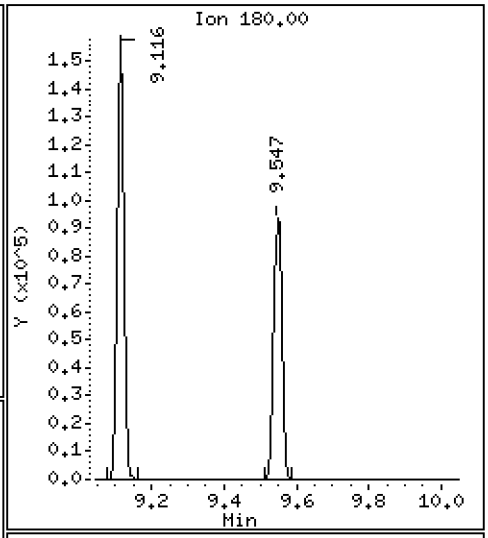
119 1,2,3-Trichlorobenzene Concentration: 46.1715 ug/L

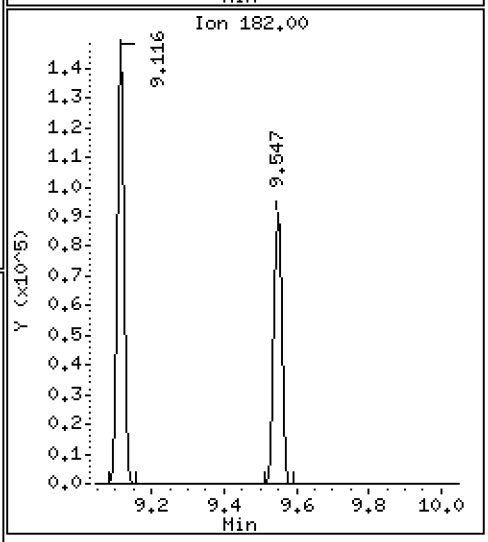








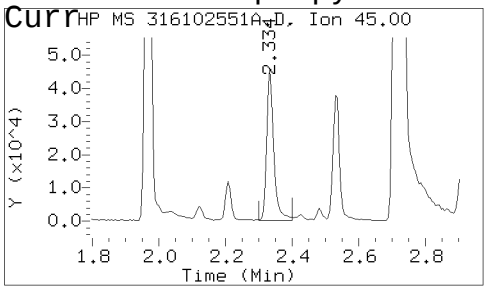


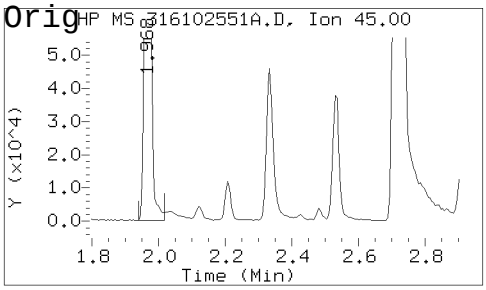


MANUAL INTEGRATION REPORT

Report Date: 10/26/2016 10:32
Lab Sample ID: 1800 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161025A.b/316102551A.D
RawFile:/Chem2/ms03.i/03_2016/3161025A.b/RawData/316102551A.D
Injection Date: 25-OCT-2016 21:59 Operator: CJG

Isopropyl Alcohol

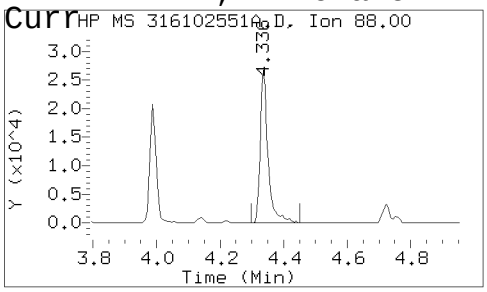
Curr 

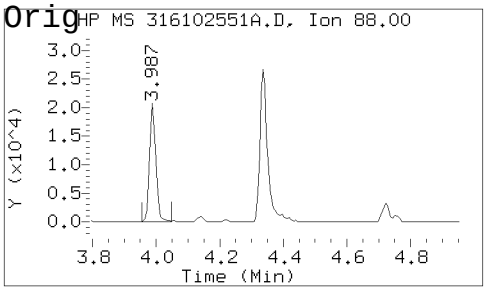
Orig 

Curr. Area: 67986
Orig. Area: 279322

Curr. ON-COL: 241.435
Orig. ON-COL: 991.941

1,4-Dioxane

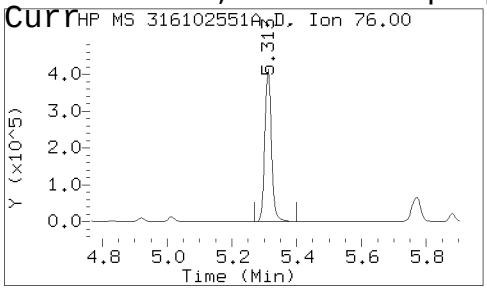
Curr 

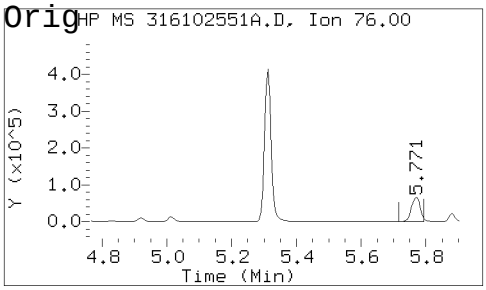
Orig 

Curr. Area: 45861
Orig. Area: 28688

Curr. ON-COL: 1474.52
Orig. ON-COL: 922.376

1,3-Dichloropropane

Curr 

Orig 

Curr. Area: 591160
Orig. Area: 124310

Curr. ON-COL: 44.4434
Orig. ON-COL: 9.34563

UNASSIGNED PEAK REPORT

Report Date: 10/26/2016 10:32
Lab Sample ID: 1800 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161025A.b/316102551A.D
RawFile:/Chem2/ms03.i/03_2016/3161025A.b/RawData/316102551A.D
Injection Date: 25-OCT-2016 21:59 Operator: CJG

Data File: 316102579.D Page 1
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\31610257
Lab Smp Id: 1801
Inj Date : 26-OCT-2016 08:14
Operator : CJG Inst ID: ms03.i
Smp Info : 1801;;1;2;4;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b0
Meth Date : 26-Oct-2016 10:26 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 29 QC Sample:
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.258	(0.332)	568304	50.4969	50.4969	
2 Chloromethane	50	1.389	1.389	(0.367)	559645	55.1041	55.1041	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	596542	52.9140	52.9140	
4 Bromomethane	94	1.640	1.646	(0.433)	224334	49.4345	49.4345	
5 Chloroethane	64	1.717	1.722	(0.453)	365592	52.5161	52.5161	
6 Pentane	41	1.793	1.793	(0.473)	335410	55.8807	55.8807	
7 Trichlorofluoromethane	101	1.799	1.798	(0.475)	642092	50.6122	50.6122	
8 Dichlorofluoromethane	67	1.826	1.826	(0.482)	792311	46.8022	46.8022	
9 Ethyl Ether	74	1.968	1.967	(0.519)	256698	45.5922	45.5922	
10 1,1-Dichloroethene	61	2.088	2.088	(0.551)	558631	47.7268	47.7268	
12 Carbon Disulfide	76	2.120	2.120	(0.560)	929134	46.5335	46.5335	
11 Freon 113	101	2.099	2.104	(0.554)	303439	45.9665	45.9665	
13 Iodomethane	127	2.181	2.180	(0.575)	98211	53.7673	53.7673	
14 Acrolein	56	2.273	2.273	(0.600)	555568	505.519	505.519	
16 3-Chloro-1-propene	41	2.344	2.344	(0.619)	448379	45.9817	45.9817	
15 Isopropyl Alcohol	45	2.333	2.333	(0.616)	84386	337.071	337.071	
17 Methylene Chloride	84	2.404	2.404	(0.634)	373509	49.3669	49.3669	
18 Acetone	58	2.426	2.426	(0.640)	154573	254.695	254.695	
19 Methyl acetate	74	2.481	2.480	(0.655)	58308	48.4174	48.4174(Q)	
20 trans-1,2-Dichloroethene	61	2.486	2.486	(0.656)	553924	48.6899	48.6899	
21 Hexane	57	2.519	2.519	(0.665)	765273	47.7619	47.7619	

Data File: 316102579.D Page 2
Report Date: 26-Oct-2016 10:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
22 Methyl t-Butyl Ether	73	2.530	2.529	(0.667)	947956	48.2838	48.2838	
23 tert.- Butyl Alcohol	59	2.562	2.568	(0.676)	125793	297.713	297.713	
24 Acetonitrile	41	2.682	2.682	(0.708)	204324	320.519	320.519	
25 Diisopropyl ether	45	2.721	2.720	(0.718)	1351590	52.5969	52.5969	
26 Chloroprene	53	2.797	2.797	(0.738)	575946	51.3417	51.3417	
27 1,1-Dichloroethane	63	2.813	2.813	(0.742)	708247	47.8175	47.8175	
28 Acrylonitrile	53	2.841	2.840	(0.750)	678960	253.197	253.197	
30 n-Propanol	41	2.912	2.911	(0.768)	267267	583.775	583.775(Q)	
29 Ethyl tert-butyl ether	59	2.912	2.911	(0.768)	1116309	51.1777	51.1777	
31 Vinyl acetate	86	2.923	2.928	(0.771)	73863	45.5708	45.5708(Q)	
32 cis-1,2-Dichloroethene	61	3.097	3.097	(0.817)	547351	48.1405	48.1405	
33 2,2-Dichloropropane	77	3.157	3.157	(0.833)	358763	39.8836	39.8836	
M 100 1,2-Dichloroethene, Total	61				1101275	96.8305	96.8305	
34 Bromochloromethane	128	3.206	3.206	(0.846)	147335	46.5789	46.5789	
35 Cyclohexane	84	3.212	3.212	(0.847)	594916	48.6947	48.6947	
36 Chloroform	83	3.234	3.233	(0.853)	686438	50.6745	50.6745	
37 Ethyl acetate	43	3.277	3.277	(0.865)	348748	53.5923	53.5923	
38 Methyl acrylate	55	3.294	3.293	(0.869)	331246	52.4839	52.4839	
39 Carbon Tetrachloride	117	3.321	3.321	(0.876)	374894	48.0875	48.0875	
40 Tetrahydrofuran	42	3.332	3.326	(0.879)	552510	267.966	267.966	
$ 41 Dibromofluoromethane	113	3.337	3.337	(0.881)	274453	44.9081	44.9081	
42 1,1,1-Trichloroethane	97	3.359	3.359	(0.886)	511648	49.2405	49.2405	
43 2-Butanone	72	3.397	3.397	(0.896)	222139	252.748	252.748	
44 1,1-Dichloropropene	75	3.425	3.424	(0.904)	534778	48.6863	48.6863	
45 1-Chlorobutane	41	3.446	3.446	(0.909)	443152	55.6384	55.6384	
46 Heptane	71	3.512	3.512	(0.927)	250314	49.9499	49.9499	
48 Propionitrile	54	3.577	3.577	(0.944)	266692	265.775	265.775	
47 Benzene	78	3.561	3.561	(0.940)	1608807	47.4406	47.4406	
49 Methacrylonitrile	67	3.583	3.583	(0.945)	151020	48.9107	48.9107	
50 tert-amyl methyl Ether	73	3.599	3.599	(0.950)	865509	49.1054	49.1054	
$ 51 1,2-Dichloroethane-d4	65	3.637	3.637	(0.960)	370479	50.9621	50.9621	
54 Isobutyl alcohol	43	3.632	3.626	(0.958)	133207	726.783	726.783	
52 1,2-Dichloroethane	62	3.676	3.675	(0.970)	487368	48.5257	48.5257	
53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	89519	257.370	257.370	
* 55 Fluorobenzene	96	3.790	3.790	(1.000)	926861	30.0000		
56 Diisobutylene	57	3.796	3.795	(1.001)	1090611	57.3622	57.3622	
57 Trichloroethene	95	3.883	3.883	(1.024)	366365	45.3846	45.3846	
58 Methyl cyclohexane	83	3.883	3.883	(0.674)	644419	47.7218	47.7218	
59 tert-Amyl Ethylether	59	3.987	3.986	(1.052)	810329	51.6128	51.6128	
60 Dibromomethane	93	4.139	4.139	(1.092)	194536	47.2152	47.2152	
61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	416232	49.9446	49.9446	
62 Bromodichloromethane	83	4.221	4.221	(1.114)	423685	50.5125	50.5125	
63 Methyl methacrylate	41	4.292	4.292	(1.132)	310307	54.0318	54.0318	
64 1,4-Dioxane	88	4.336	4.336	(1.144)	64578	2335.41	2335.41(QR)	
65 2-Chloroethylvinyl ether	63	4.549	4.548	(1.200)	179633	44.2581	44.2581	
66 cis-1,3-Dichloropropene	75	4.603	4.603	(0.799)	539863	49.1800	49.1800	
67 Octane	85	4.609	4.608	(0.800)	161862	49.0909	49.0909	
$ 68 Toluene-d8	98	4.723	4.723	(0.820)	1187110	47.0814	47.0814	
69 Toluene	92	4.756	4.756	(0.826)	911226	47.0232	47.0232	
70 Chloroacetonitrile	48	4.827	4.827	(0.838)	49793	281.577	281.577	
71 2-Nitropropane	41	4.909	4.908	(0.852)	357225	247.853	247.853	
72 1,1-Dichloro-2-propanone	63	4.920	4.919	(0.854)	32712	244.719	244.719(Q)	
73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.985	(0.865)	1820713	272.540	272.540	
75 trans-1,3-Dichloropropene	75	5.012	5.012	(0.870)	474996	49.7982	49.7982	

Data File: 316102579.D Page 3
Report Date: 26-Oct-2016 10:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	245637	51.9553	51.9553	
	76 Ethyl methacrylate	69	5.094	5.094	(0.884)	461265	52.7661	52.7661	
	77 1,1,2-Trichloroethane	83	5.121	5.121	(0.889)	260323	46.2111	46.2111	
	78 Chlorodibromomethane	129	5.247	5.247	(0.911)	244467	48.2541	48.2541	
	79 1,3-Dichloropropane	76	5.312	5.312	(0.922)	560029	46.0649	46.0649(M)	H
	80 1,2-Dibromoethane	107	5.422	5.421	(0.941)	260905	46.5625	46.5625	
	81 2-Hexanone	43	5.542	5.541	(0.962)	1175507	277.800	277.800	
	82 1-Chlorohexane	91	5.738	5.738	(0.996)	479077	48.4747	48.4747	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	406785	30.0000		
	85 Ethylbenzene	106	5.782	5.781	(1.004)	502332	45.2366	45.2366	
	84 Chlorobenzene	112	5.771	5.771	(1.002)	882719	43.4187	43.4187	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.814	(1.009)	255515	47.8658	47.8658	
	87 mp-Xylene	106	5.880	5.880	(1.021)	1200402	92.6385	92.6385	
M	120 1,3-Dichloropropene, Total	75				1014859	98.9782	98.9782	
	88 o-Xylene	106	6.196	6.196	(1.076)	556043	48.3318	48.3318	
	89 Styrene	104	6.235	6.234	(0.829)	924589	50.5106	50.5106	
	90 Bromoform	173	6.262	6.262	(0.833)	100208	42.5000	42.5000	
	91 Isopropylbenzene	105	6.426	6.425	(0.855)	1479005	49.4483	49.4483	
$	92 4-Bromofluorobenzene	174	6.649	6.649	(0.885)	239320	46.8495	46.8495	
M	121 TOTAL XYLENES	106				1756445	140.970	140.970	
	94 n-Propylbenzene	120	6.737	6.736	(0.896)	372078	49.1950	49.1950	
	93 Bromobenzene	156	6.731	6.731	(0.895)	284927	45.4408	45.4408	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.791	(0.903)	346227	47.7331	47.7331	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.916)	1122558	51.2571	51.2571	
	96 o-Chlorotoluene	91	6.868	6.867	(0.914)	1148614	48.9067	48.9067	
	98 1,2,3-Trichloropropane	110	6.906	6.905	(0.919)	97571	45.2571	45.2571	
	99 trans-1,4-Dichloro-2-butene	53	6.933	6.933	(0.922)	77359	44.6626	44.6626(Q)	
	101 p-Chlorotoluene	91	6.993	6.993	(0.930)	1046499	48.9103	48.9103	
	102 tert-Butylbenzene	134	7.140	7.135	(0.950)	241872	48.7712	48.7712	
	103 Pentachloroethane	117	7.162	7.162	(0.953)	192006	46.5062	46.5062	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.957)	1107530	51.7213	51.7213	
	105 sec-Butylbenzene	105	7.277	7.277	(0.968)	1389424	50.7371	50.7371	
	106 p-Isopropyltoluene	134	7.391	7.391	(0.983)	267795	51.3254	51.3254	
	107 1,3-Dichlorobenzene	146	7.462	7.462	(0.993)	506458	49.4034	49.4034	
*	108 1,4-Dichlorobenzene-d4	152	7.517	7.522	(1.000)	246810	30.0000		
	109 1,4-Dichlorobenzene	146	7.533	7.533	(1.002)	515550	49.8101	49.8101	
	111 n-Butylbenzene	134	7.735	7.735	(1.029)	227822	49.5846	49.5846(Q)	
	110 Benzyl Chloride	126	7.735	7.735	(1.029)	41340	30.4830	30.4830(Q)	
	112 Hexachloroethane	117	7.850	7.849	(1.044)	146451	45.9346	45.9346	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.048)	456648	49.5039	49.5039	
	114 1,2-Dibromo-3-chloropropane	75	8.537	8.542	(1.136)	37277	48.1462	48.1462	
	115 Nitrobenzene	77	9.023	9.028	(1.200)	11238	335.061	335.061	
	116 Hexachlorobutadiene	225	9.088	9.088	(1.209)	87487	50.9436	50.9436	
	117 1,2,4-Trichlorobenzene	180	9.116	9.115	(1.213)	184636	46.7886	46.7886	
	118 Naphthalene	128	9.394	9.394	(1.250)	330085	45.0519	45.0519	
	119 1,2,3-Trichlorobenzene	180	9.547	9.546	(1.270)	121669	47.4721	47.4721	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 316102579.D Page 4
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 25-OCT-2016
Lab File ID: 316102579.D Calibration Time: 21:59
Lab Smp Id: 1801
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: CJG
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b
Misc Info:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	926861	-8.52
83 Chlorobenzene-d5	432864	216432	865728	406785	-6.02
108 1,4-Dichlorobenze	273837	136919	547674	246810	-9.87

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	0.01
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102579.D Page 5
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

RECOVERY REPORT

Client Name: Client SDG: 3161025A.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 1801
Level: LOW Operator: CJG
Data Type: MS DATA SampleType:
SpikeList File: DODENDCCV.spk Quant Type: ISTD
Sublist File: DODall.sub
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b
Misc Info:

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.0000	50.4969	100.99	50-150
2	Chloromethane	50.0000	55.1041	110.21	50-150
3	Vinyl Chloride	50.0000	52.9140	105.83	50-150
4	Bromomethane	50.0000	49.4345	98.87	50-150
5	Chloroethane	50.0000	52.5161	105.03	50-150
6	Pentane	50.0000	55.8807	111.76	50-150
7	Trichlorofluoromet	50.0000	50.6122	101.22	50-150
8	Dichlorofluorometh	50.0000	46.8022	93.60	50-150
9	Ethyl Ether	50.0000	45.5922	91.18	50-150
10	1,1-Dichloroethene	50.0000	47.7268	95.45	50-150
11	Freon 113	50.0000	45.9665	91.93	50-150
12	Carbon Disulfide	50.0000	46.5335	93.07	50-150
13	Iodomethane	50.0000	53.7673	107.53	50-150
14	Acrolein	500.000	505.519	101.10	50-150
15	Isopropyl Alcohol	250.000	337.071	134.83	50-150
16	3-Chloro-1-propene	50.0000	45.9817	91.96	50-150
17	Methylene Chloride	50.0000	49.3669	98.73	50-150
18	Acetone	250.000	254.695	101.88	50-150
19	Methyl acetate	50.0000	48.4174	96.83	50-150
20	trans-1,2-Dichloro	50.0000	48.6899	97.38	50-150
21	Hexane	50.0000	47.7619	95.52	50-150
22	Methyl t-Butyl Eth	50.0000	48.2838	96.57	50-150
23	tert.- Butyl Alcoh	250.000	297.713	119.09	50-150
24	Acetonitrile	250.000	320.519	128.21	50-150
25	Diisopropyl ether	50.0000	52.5969	105.19	50-150
26	Chloroprene	50.0000	51.3417	102.68	50-150
27	1,1-Dichloroethane	50.0000	47.8175	95.64	50-150
28	Acrylonitrile	250.000	253.197	101.28	50-150
30	n-Propanol	500.000	583.775	116.76	50-150
29	Ethyl tert-butyl e	50.0000	51.1777	102.36	50-150
31	Vinyl acetate	50.0000	45.5708	91.14	50-150
32	cis-1,2-Dichloroet	50.0000	48.1405	96.28	50-150
33	2,2-Dichloropropan	50.0000	39.8836	79.77	50-150
34	Bromochloromethane	50.0000	46.5789	93.16	50-150
35	Cyclohexane	50.0000	48.6947	97.39	50-150
36	Chloroform	50.0000	50.6745	101.35	50-150
37	Ethyl acetate	50.0000	53.5923	107.18	50-150
38	Methyl acrylate	50.0000	52.4839	104.97	50-150
39	Carbon Tetrachlori	50.0000	48.0875	96.17	50-150
40	Tetrahydrofuran	250.000	267.966	107.19	50-150

Data File: 316102579.D Page 6
Report Date: 26-Oct-2016 10:59

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
42	1,1,1-Trichloroeth	50.0000	49.2405	98.48	50-150
43	2-Butanone	250.000	252.748	101.10	50-150
44	1,1-Dichloropropen	50.0000	48.6863	97.37	50-150
45	1-Chlorobutane	50.0000	55.6384	111.28	50-150
46	Heptane	50.0000	49.9499	99.90	50-150
47	Benzene	50.0000	47.4406	94.88	50-150
48	Propionitrile	250.000	265.775	106.31	50-150
49	Methacrylonitrile	50.0000	48.9107	97.82	50-150
50	tert-amyl methyl E	50.0000	49.1054	98.21	50-150
54	Isobutyl alcohol	500.000	726.783	145.36	50-150
52	1,2-Dichloroethane	50.0000	48.5257	97.05	50-150
53	tert-Amyl Alcohol	250.000	257.370	102.95	50-150
56	Diisobutylene	50.0000	57.3622	114.72	50-150
57	Trichloroethene	50.0000	45.3846	90.77	50-150
58	Methyl cyclohexane	50.0000	47.7218	95.44	50-150
59	tert-Amyl Ethyleth	50.0000	51.6128	103.23	50-150
60	Dibromomethane	50.0000	47.2152	94.43	50-150
61	1,2-Dichloropropan	50.0000	49.9446	99.89	50-150
62	Bromodichlorometha	50.0000	50.5125	101.03	50-150
63	Methyl methacrylat	50.0000	54.0318	108.06	50-150
64	1,4-Dioxane	1250.00	2335.41	186.83*	50-150
65	2-Chloroethylvinyl	50.0000	44.2581	88.52	50-150
66	cis-1,3-Dichloropr	50.0000	49.1800	98.36	50-150
67	Octane	50.0000	49.0909	98.18	50-150
69	Toluene	50.0000	47.0232	94.05	50-150
70	Chloroacetonitrile	250.000	281.577	112.63	50-150
71	2-Nitropropane	250.000	247.853	99.14	50-150
72	1,1-Dichloro-2-pro	250.000	244.719	97.89	50-150
73	4-Methyl-2-Pentano	250.000	272.540	109.02	50-150
74	Tetrachloroethene	50.0000	51.9553	103.91	50-150
75	trans-1,3-Dichloro	50.0000	49.7982	99.60	50-150
76	Ethyl methacrylate	50.0000	52.7661	105.53	50-150
77	1,1,2-Trichloroeth	50.0000	46.2111	92.42	50-150
78	Chlorodibromometha	50.0000	48.2541	96.51	50-150
80	1,2-Dibromoethane	50.0000	46.5625	93.13	50-150
81	2-Hexanone	250.000	277.800	111.12	50-150
82	1-Chlorohexane	50.0000	48.4747	96.95	50-150
79	1,3-Dichloropropan	50.0000	46.0649	92.13	50-150
84	Chlorobenzene	50.0000	43.4187	86.84	50-150
85	Ethylbenzene	50.0000	45.2366	90.47	50-150
86	1,1,1,2-Tetrachlor	50.0000	47.8658	95.73	50-150
87	mp-Xylene	100.000	92.6385	92.64	50-150
88	o-Xylene	50.0000	48.3318	96.66	50-150
89	Styrene	50.0000	50.5106	101.02	50-150
90	Bromoform	50.0000	42.5000	85.00	50-150
91	Isopropylbenzene	50.0000	49.4483	98.90	50-150
93	Bromobenzene	50.0000	45.4408	90.88	50-150
94	n-Propylbenzene	50.0000	49.1950	98.39	50-150
95	1,1,2,2-Tetrachlor	50.0000	47.7331	95.47	50-150
96	o-Chlorotoluene	50.0000	48.9067	97.81	50-150
M 100	1,2-Dichloroethene	100.000	96.8305	96.83	50-150
97	1,3,5-Trimethylben	50.0000	51.2571	102.51	50-150
98	1,2,3-Trichloropro	50.0000	45.2571	90.51	50-150
99	trans-1,4-Dichloro	50.0000	44.6626	89.33	50-150

Data File: 316102579.D Page 7
Report Date: 26-Oct-2016 10:59

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	101 p-Chlorotoluene	50.0000	48.9103	97.82	50-150
	102 tert-Butylbenzene	50.0000	48.7712	97.54	50-150
	103 Pentachloroethane	50.0000	46.5062	93.01	50-150
	104 1,2,4-Trimethylben	50.0000	51.7213	103.44	50-150
	105 sec-Butylbenzene	50.0000	50.7371	101.47	50-150
	106 p-Isopropyltoluene	50.0000	51.3254	102.65	50-150
	107 1,3-Dichlorobenzen	50.0000	49.4034	98.81	50-150
	109 1,4-Dichlorobenzen	50.0000	49.8101	99.62	50-150
	110 Benzyl Chloride	50.0000	30.4830	60.97	50-150
	111 n-Butylbenzene	50.0000	49.5846	99.17	50-150
	112 Hexachloroethane	50.0000	45.9346	91.87	50-150
	113 1,2-Dichlorobenzen	50.0000	49.5039	99.01	50-150
	114 1,2-Dibromo-3-chlo	50.0000	48.1462	96.29	50-150
	115 Nitrobenzene	500.000	335.061	67.01	50-150
	116 Hexachlorobutadien	50.0000	50.9436	101.89	50-150
	117 1,2,4-Trichloroben	50.0000	46.7886	93.58	50-150
	118 Naphthalene	50.0000	45.0519	90.10	50-150
M	120 1,3-Dichloropropen	100.000	98.9782	98.98	50-150
	119 1,2,3-Trichloroben	50.0000	47.4721	94.94	50-150
M	121 TOTAL XYLENES	150.000	140.970	93.98	50-150

	SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$	41 Dibromofluorometha	50.0000	44.9081	89.82	80-119
$	51 1,2-Dichloroethane	50.0000	50.9621	101.92	81-118
$	68 Toluene-d8	50.0000	47.0814	94.16	89-112
$	92 4-Bromofluorobenze	50.0000	46.8495	93.70	85-114

Data File: 316102579.D Page 8
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161025A.b
Lab Smp Id: 1801
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	50.4969	
74-87-3	Chloromethane	55.1041	
75-01-4	Vinyl Chloride	52.9140	
74-83-9	Bromomethane	49.4345	
75-00-3	Chloroethane	52.5161	
109-66-0	Pentane	55.8807	
75-69-4	Trichlorofluoromethane	50.6122	
75-43-4	Dichlorofluoromethane	46.8022	
60-29-7	Ethyl Ether	45.5922	
75-35-4	1,1-Dichloroethene	47.7268	
75-15-0	Carbon Disulfide	46.5335	
76-13-1	Freon 113	45.9665	
74-88-4	Iodomethane	53.7673	
107-02-8	Acrolein	505.519	
107-05-1	3-Chloro-1-propene	45.9817	
67-63-0	Isopropyl Alcohol	337.071	
75-09-2	Methylene Chloride	49.3669	
67-64-1	Acetone	254.695	
79-20-9	Methyl acetate	48.4174	
156-60-5	trans-1,2-Dichloroethene	48.6899	
110-54-3	Hexane	47.7619	
1634-04-4	Methyl t-Butyl Ether	48.2838	
75-65-0	tert.- Butyl Alcohol	297.713	
75-05-8	Acetonitrile	320.519	
108-20-3	Diisopropyl ether	52.5969	
126-99-8	Chloroprene	51.3417	
75-34-3	1,1-Dichloroethane	47.8175	
107-13-1	Acrylonitrile	253.197	
71-23-8	n-Propanol	583.775	
637-92-3	Ethyl tert-butyl ether	51.1777	
108-05-4	Vinyl acetate	45.5708	
156-59-2	cis-1,2-Dichloroethene	48.1405	
594-20-7	2,2-Dichloropropane	39.8836	
540-59-0	1,2-Dichloroethene, Total	96.8305	
74-97-5	Bromochloromethane	46.5789	
110-82-7	Cyclohexane	48.6947	
67-66-3	Chloroform	50.6745	
141-78-6	Ethyl acetate	53.5923	
96-33-3	Methyl acrylate	52.4839	
56-23-5	Carbon Tetrachloride	48.0875	
109-99-9	Tetrahydrofuran	267.966	
71-55-6	1,1,1-Trichloroethane	49.2405	

Data File: 316102579.D Page 9
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161025A.b
Lab Smp Id: 1801
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
78-93-3	2-Butanone	252.748	
563-58-6	1,1-Dichloropropene	48.6863	
109-69-3	1-Chlorobutane	55.6384	
142-82-5	Heptane	49.9499	
107-12-0	Propionitrile	265.775	
71-43-2	Benzene	47.4406	
126-98-7	Methacrylonitrile	48.9107	
994-05-8	tert-amyl methyl Ether	49.1054	
78-83-1	Isobutyl alcohol	726.783	
107-06-2	1,2-Dichloroethane	48.5257	
75-85-4	tert-Amyl Alcohol	257.370	
107-39-1	Diisobutylene	57.3622	
79-01-6	Trichloroethene	45.3846	
108-87-2	Methyl cyclohexane	47.7218	
919-94-8	tert-Amyl Ethylether	51.6128	
74-95-3	Dibromomethane	47.2152	
78-87-5	1,2-Dichloropropane	49.9446	
75-27-4	Bromodichloromethane	50.5125	
80-62-6	Methyl methacrylate	54.0318	
123-91-1	1,4-Dioxane	2335.41	
110-75-8	2-Chloroethylvinyl ether	44.2581	
10061-01-5	cis-1,3-Dichloropropene	49.1800	
111-65-9	Octane	49.0909	
108-88-3	Toluene	47.0232	
107-14-2	Chloroacetonitrile	281.577	
79-46-9	2-Nitropropane	247.853	
513-88-2	1,1-Dichloro-2-propanone	244.719	
108-10-1	4-Methyl-2-Pentanone(MIBK)	272.540	
10061-02-6	trans-1,3-Dichloropropene	49.7982	
127-18-4	Tetrachloroethene	51.9553	
97-63-2	Ethyl methacrylate	52.7661	
79-00-5	1,1,2-Trichloroethane	46.2111	
124-48-1	Chlorodibromomethane	48.2541	
142-28-9	1,3-Dichloropropane	46.0649	
106-93-4	1,2-Dibromoethane	46.5625	
591-78-6	2-Hexanone	277.800	
544-10-5	1-Chlorohexane	48.4747	
100-41-4	Ethylbenzene	45.2366	
108-90-7	Chlorobenzene	43.4187	
630-20-6	1,1,1,2-Tetrachloroethane	47.8658	
108383/106423	m,p-Xylene	92.6385	
542-75-6	1,3-Dichloropropene, Total	98.9782	

Data File: 316102579.D Page 10
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161025A.b
Lab Smp Id: 1801
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
95-47-6	o-Xylene	48.3318	
100-42-5	Styrene	50.5106	
75-25-2	Bromoform	42.5000	
98-82-8	Isopropylbenzene	49.4483	
1330-20-7	TOTAL XYLENES	140.970	
103-65-1	n-Propylbenzene	49.1950	
108-86-1	Bromobenzene	45.4408	
79-34-5	1,1,2,2-Tetrachloroethane	47.7331	
108-67-8	1,3,5-Trimethylbenzene	51.2571	
95-49-8	o-Chlorotoluene	48.9067	
96-18-4	1,2,3-Trichloropropane	45.2571	
110-57-6	trans-1,4-Dichloro-2-butene	44.6626	
106-43-4	p-Chlorotoluene	48.9103	
98-06-6	tert-Butylbenzene	48.7712	
76-01-7	Pentachloroethane	46.5062	
95-63-6	1,2,4-Trimethylbenzene	51.7213	
135-98-8	sec-Butylbenzene	50.7371	
99-87-6	p-Isopropyltoluene	51.3254	
541-73-1	1,3-Dichlorobenzene	49.4034	
106-46-7	1,4-Dichlorobenzene	49.8101	
104-51-8	n-Butylbenzene	49.5846	
100-44-7	Benzyl Chloride	30.4830	
67-72-1	Hexachloroethane	45.9346	
95-50-1	1,2-Dichlorobenzene	49.5039	
96-12-8	1,2-Dibromo-3-chloropropane	48.1462	
98-95-3	Nitrobenzene	335.061	
87-68-3	Hexachlorobutadiene	50.9436	
120-82-1	1,2,4-Trichlorobenzene	46.7886	
91-20-3	Naphthalene	45.0519	
87-61-6	1,2,3-Trichlorobenzene	47.4721	
1868-53-7	Dibromofluoromethane	44.9081	
17060-07-0	1,2-Dichloroethane-d4	50.9621	
2037-26-5	Toluene-d8	47.0814	
460-00-4	4-Bromofluorobenzene	46.8495	

Data File: 316102579.D Page 11
Report Date: 26-Oct-2016 10:59

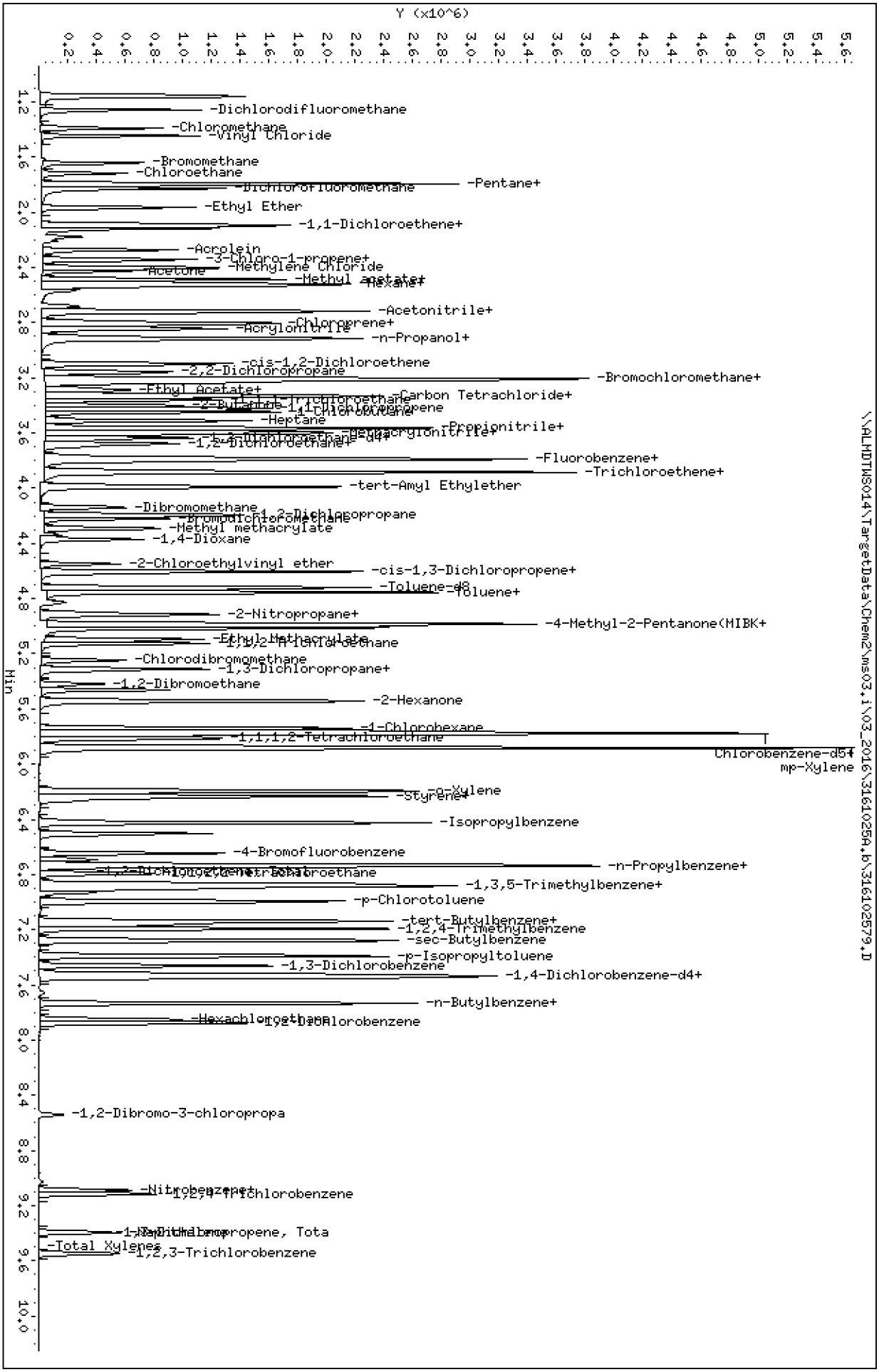
ALS Environmental Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Client SDG: 3161025A.b
Lab Smp Id: 1801
Operator : CJG Sample Date:
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:
Analysis Type: VOA Level: LOW
Inj Date: 26-OCT-2016 08:14

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	1.161	10.8494	_J__
2.	142-28-9	Propane, 1,3-dichloro-	5.313	5.38683	NJ__
3.	123-86-4	Acetic acid, butyl ester	5.460	3.91734	NJ__
4.	628-63-7	Acetic acid, pentyl ester	6.502	4.81209	NJ__


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Dichlorofluoromethane
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride
-Acetone
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Acrylonitrile
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Carbon Tetrachloride+
-2-Butanone
-Chlorobromomethane
-Heptane
-Propionitrile+
-Methacrylonitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane
-Bromodichloromethane
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane+
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-o-Xylene
-Styrene+
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,2-Dichloroethene, Total
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-Hexachloroethane
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-Nitrobenzene+
-1,2,4-Trichlorobenzene
-1,2-Dichloropropene, Tota
-Total Xylenes
-1,2,3-Trichlorobenzene
Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3161025?9.D
Date : 26-OCT-2016 08:14
Client ID:
Sample Info: 1801;;1;2;4;;;
Purge Volume: 5.0
Column phase: DB-VRX
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3161025?9.D
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
Page 12

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 13

Date : 26-OCT-2016 08:14

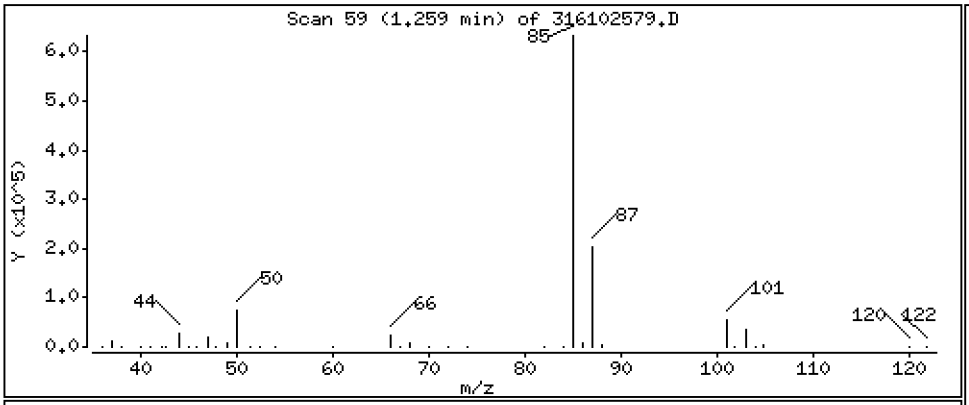
Client ID: Instrument: ms03.i

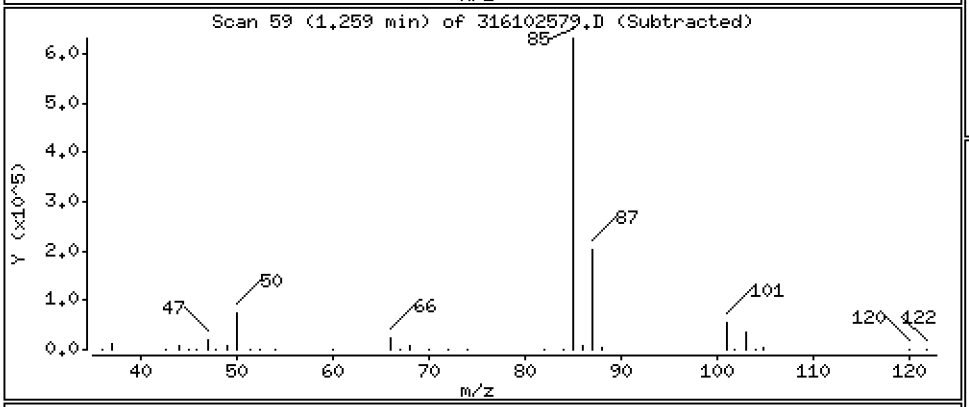
Sample Info: 1801;;1;2;4;;;

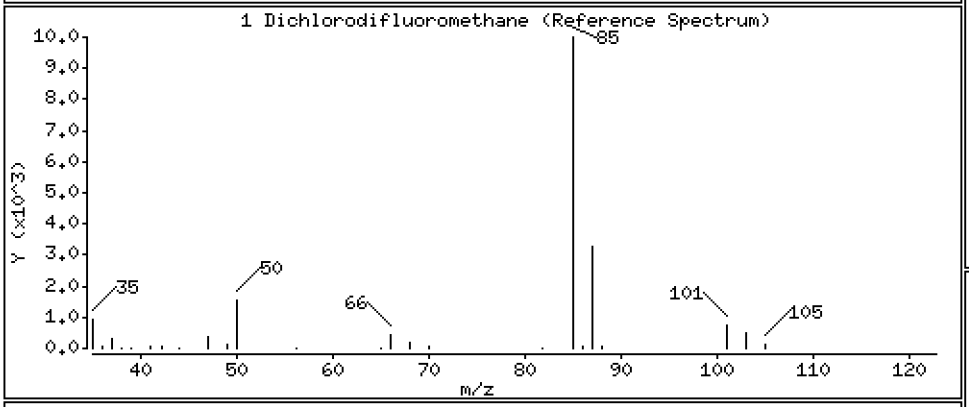
Purge Volume: 5.0 Operator: CJG

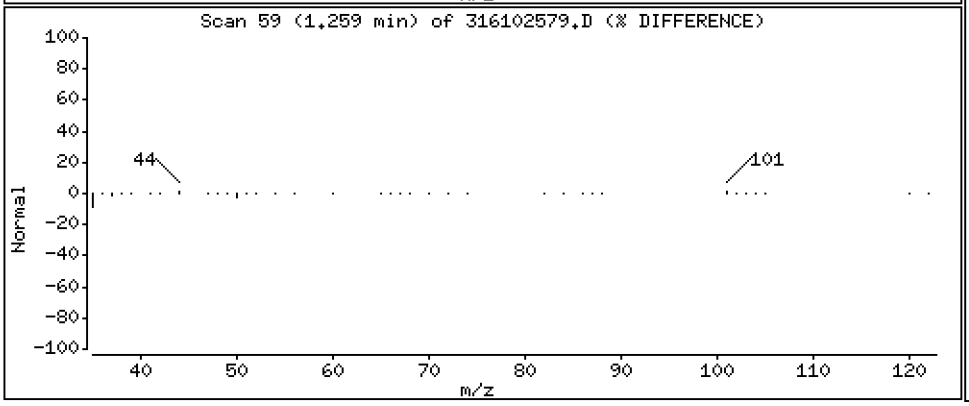
Column phase: DB-VRX Column diameter: 0.25

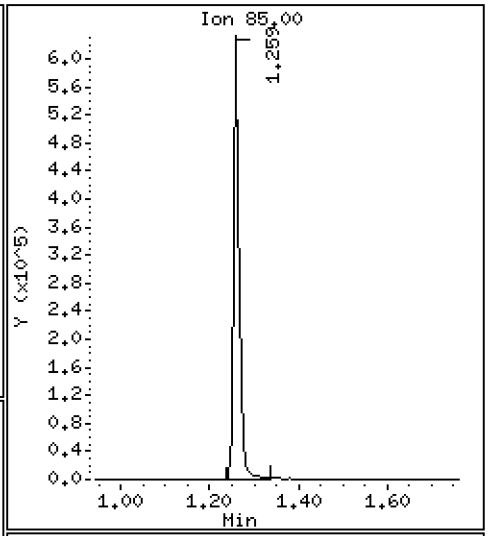
1 Dichlorodifluoromethane Concentration: 50.4969 ug/L

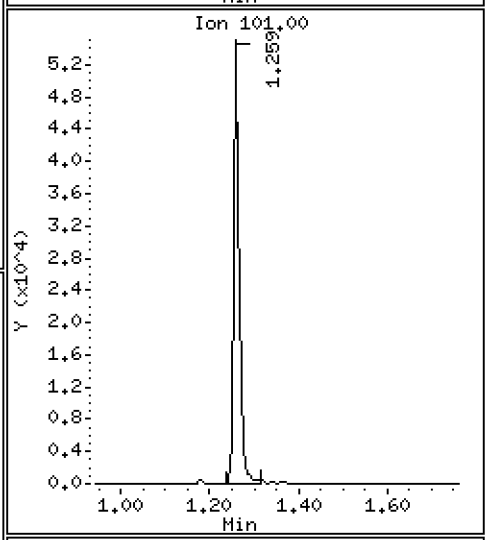


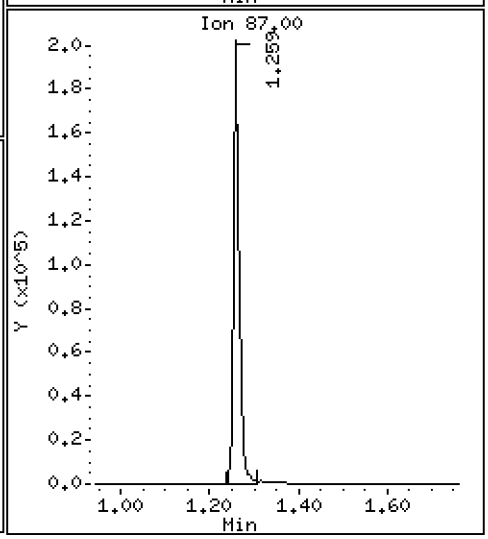












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 14

Date : 26-OCT-2016 08:14

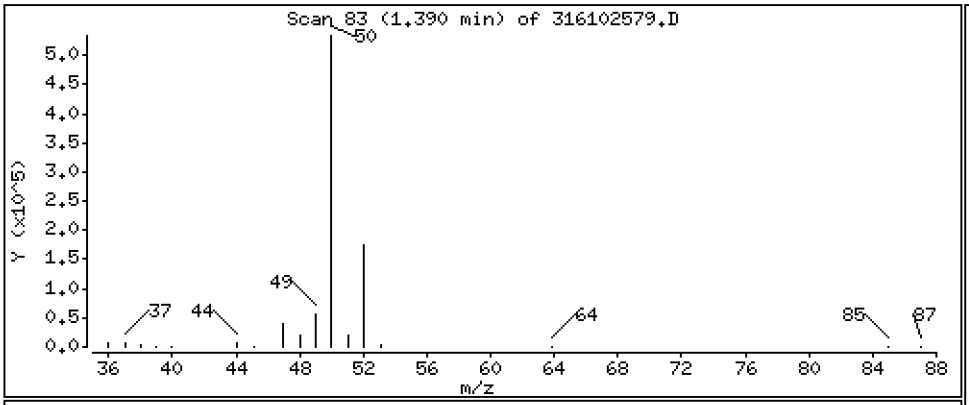
Client ID: Instrument: ms03.i

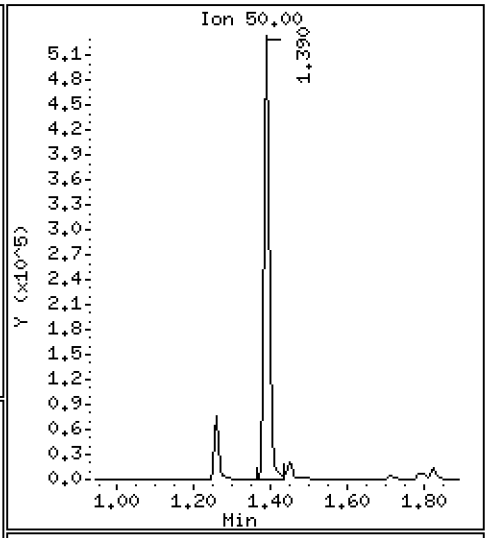
Sample Info: 1801;;1;2;4;;;

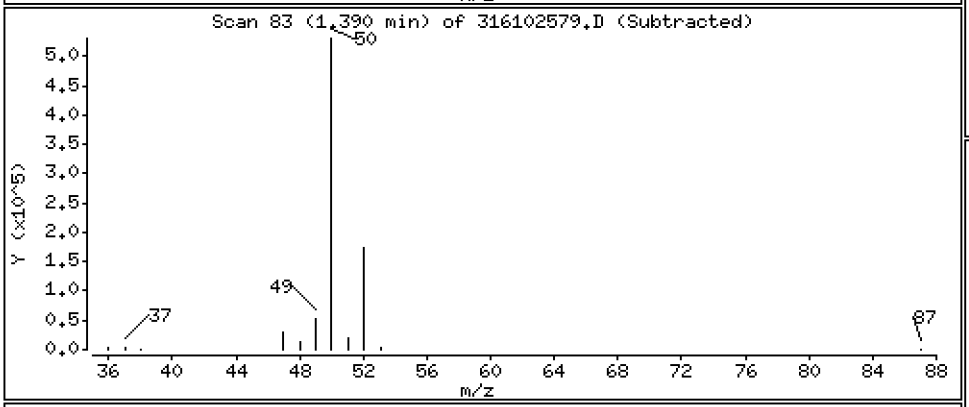
Purge Volume: 5.0 Operator: CJG

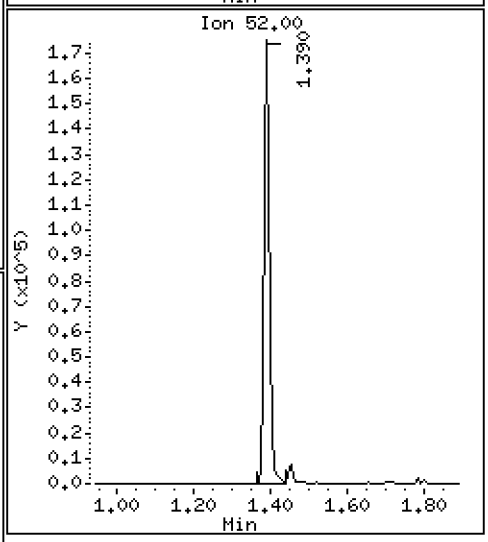
Column phase: DB-VRX Column diameter: 0.25

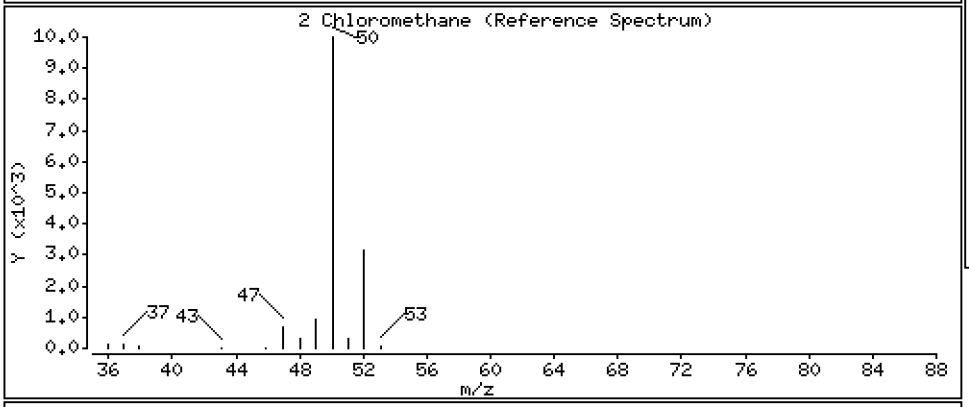
2 Chloromethane Concentration: 55.1041 ug/L

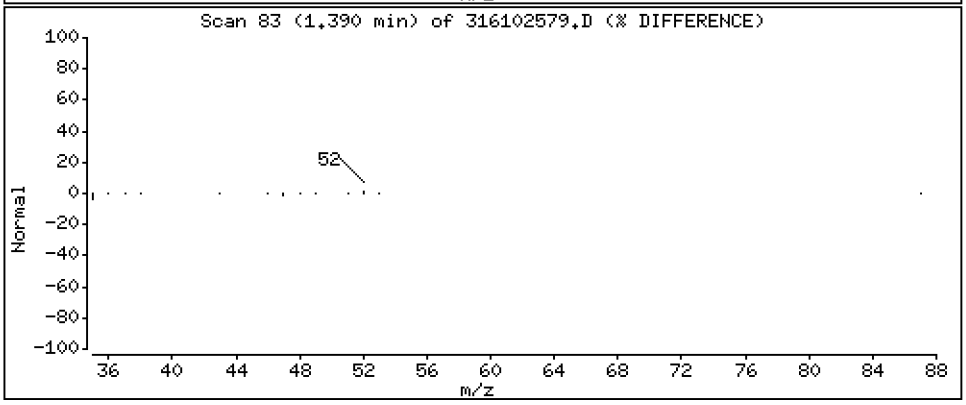












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 15

Date : 26-OCT-2016 08:14

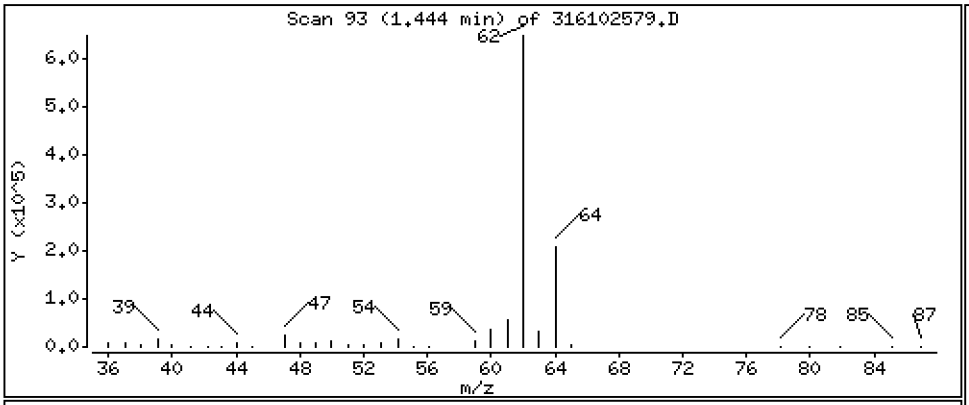
Client ID: Instrument: ms03.i

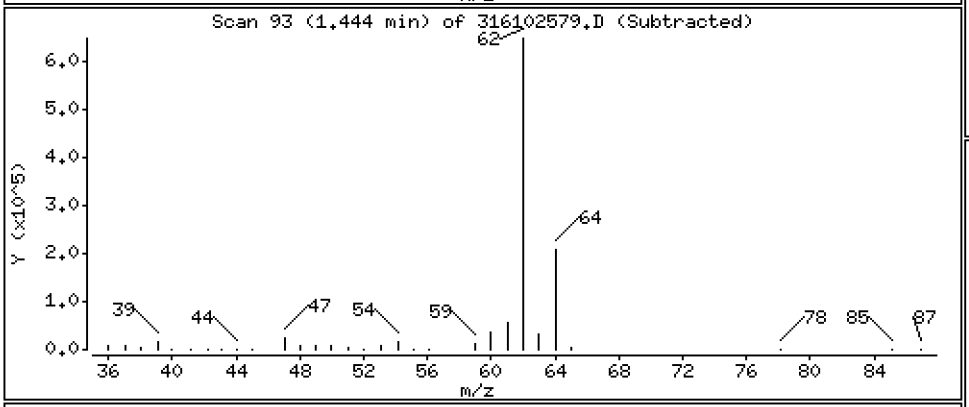
Sample Info: 1801;;1;2;4;;;

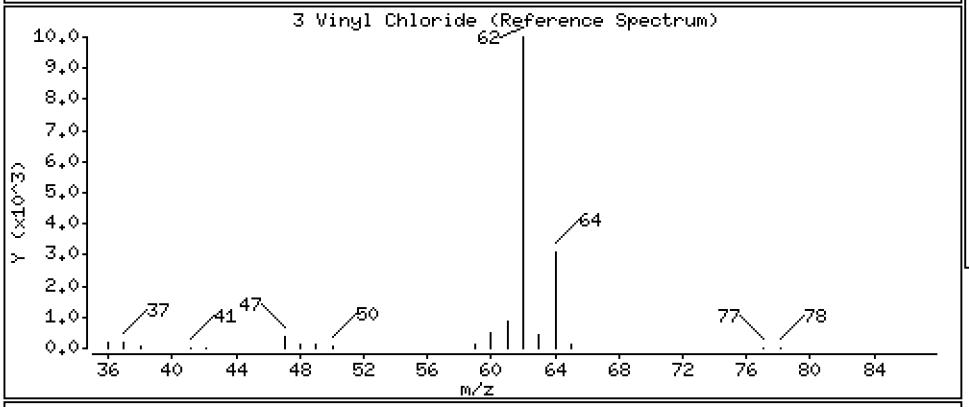
Purge Volume: 5.0 Operator: CJG

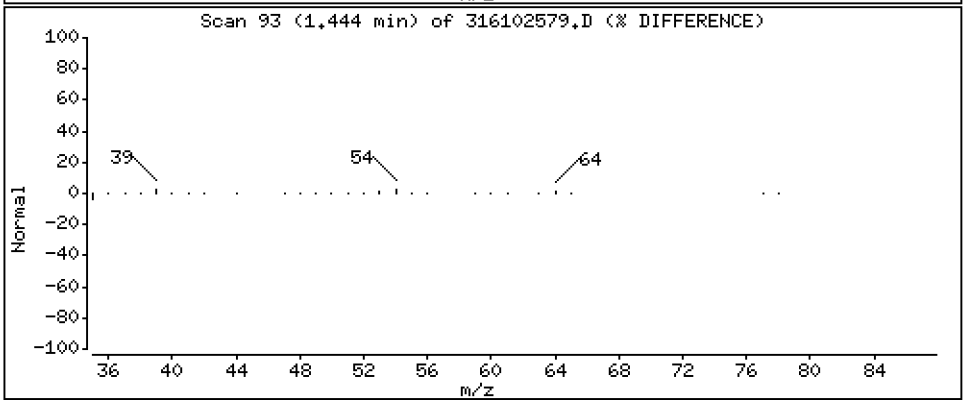
Column phase: DB-VRX Column diameter: 0.25

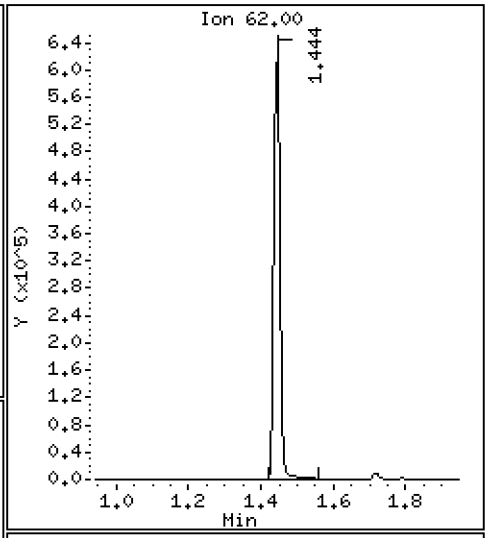
3 Vinyl Chloride Concentration: 52.9140 ug/L

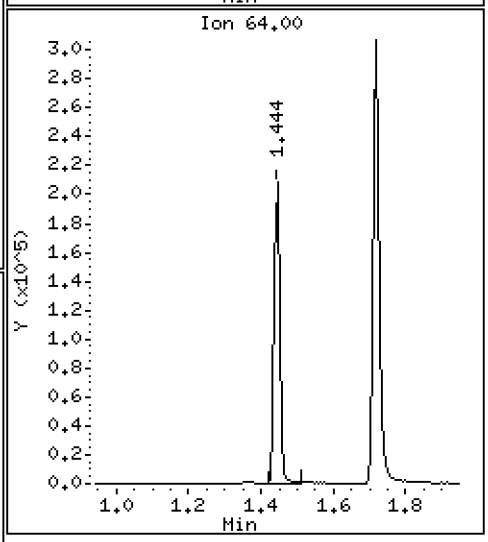












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 16

Date : 26-OCT-2016 08:14

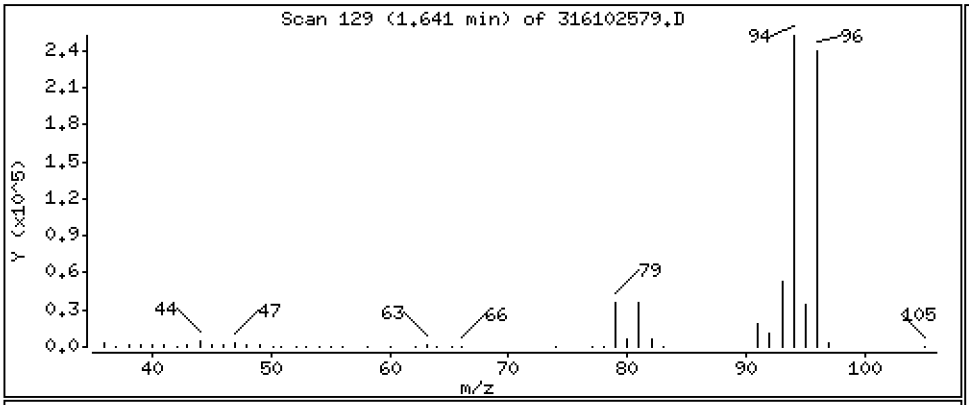
Client ID: Instrument: ms03.i

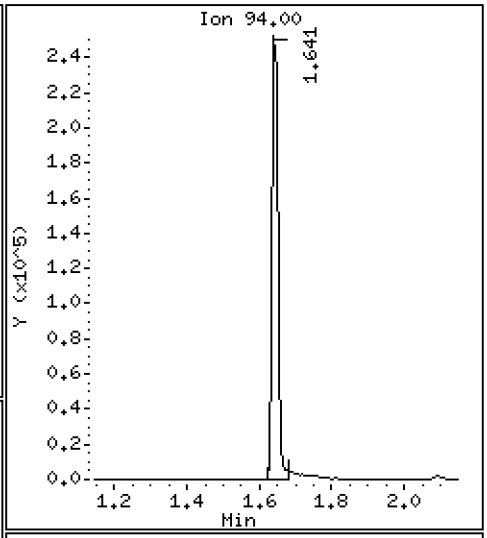
Sample Info: 1801;;1;2;4;;;

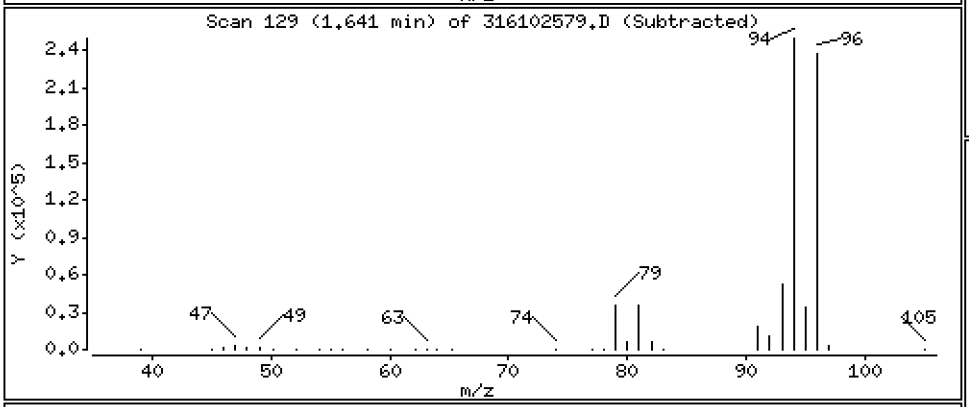
Purge Volume: 5.0 Operator: CJG

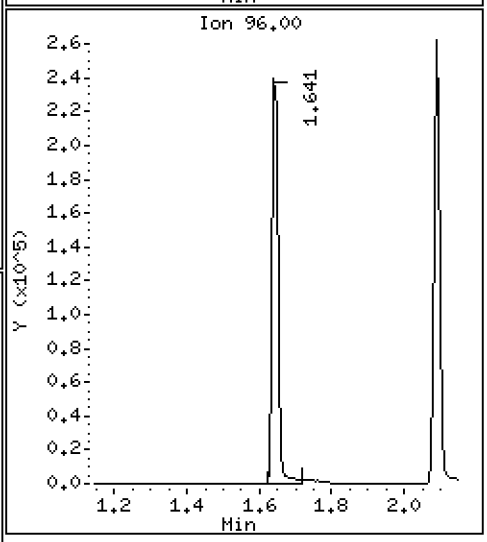
Column phase: DB-VRX Column diameter: 0.25

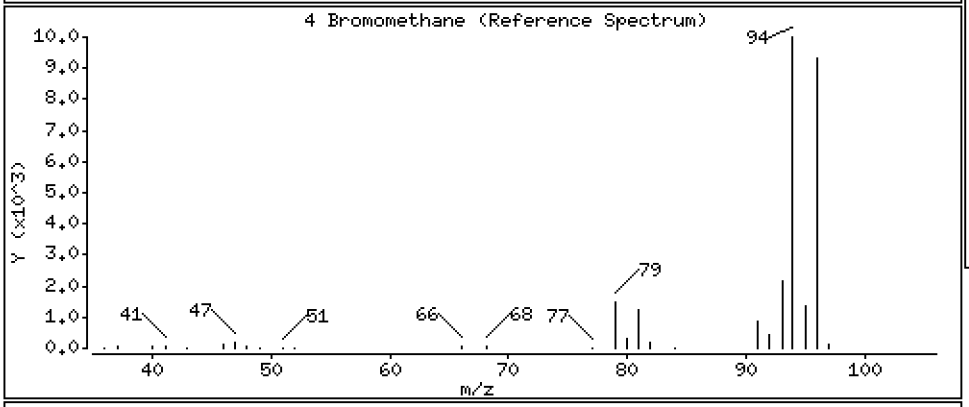
4 Bromomethane Concentration: 49.4345 ug/L

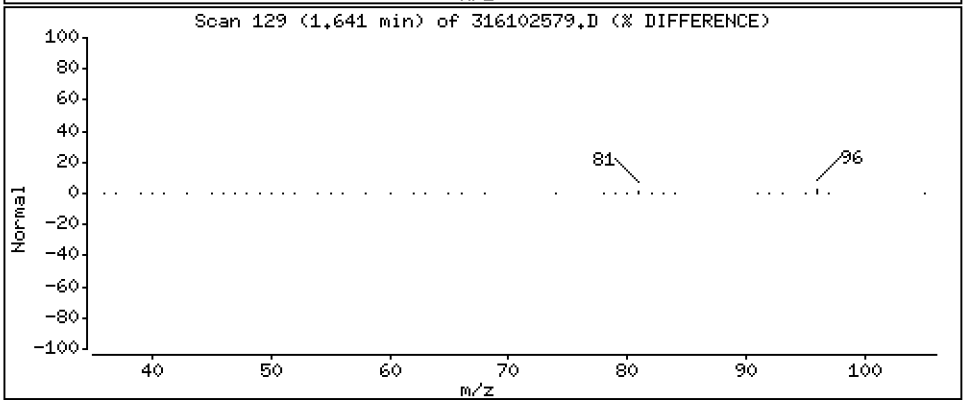












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 17

Date : 26-OCT-2016 08:14

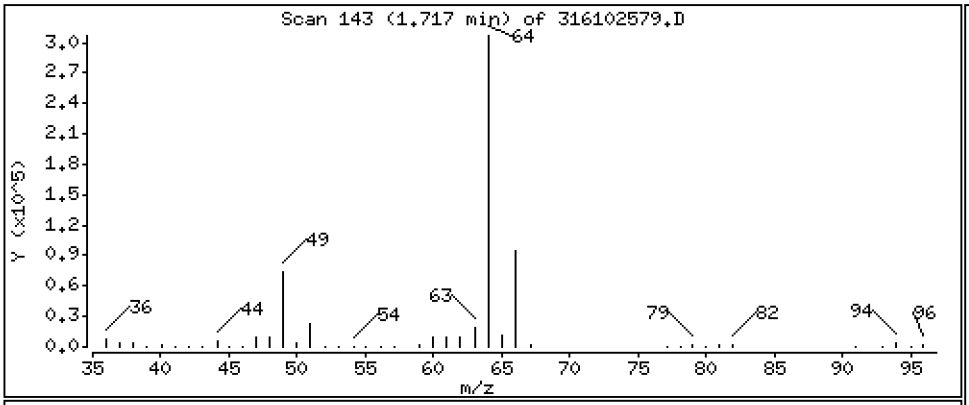
Client ID: Instrument: ms03.i

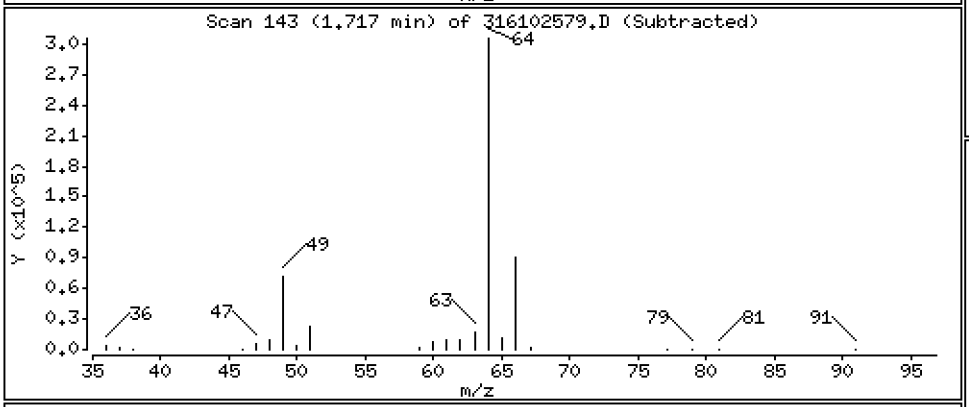
Sample Info: 1801;;1;2;4;;;

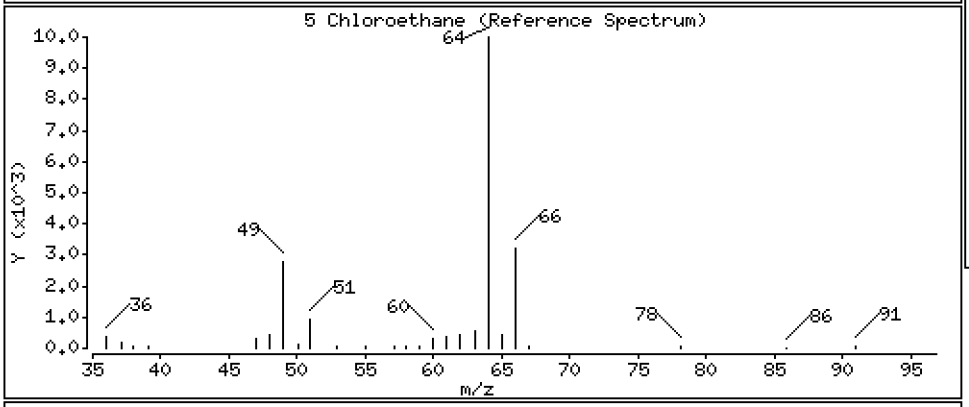
Purge Volume: 5.0 Operator: CJG

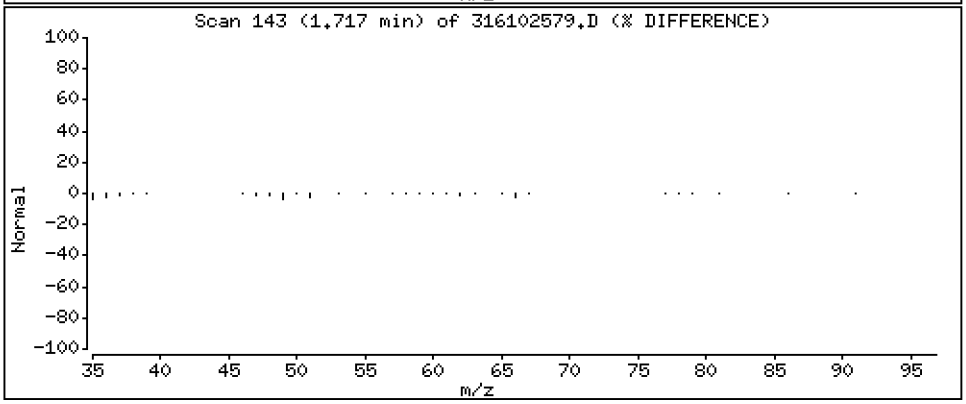
Column phase: DB-VRX Column diameter: 0.25

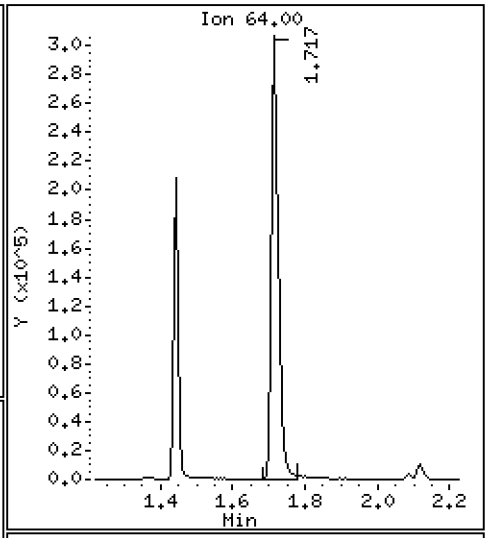
5 Chloroethane Concentration: 52.5161 ug/L

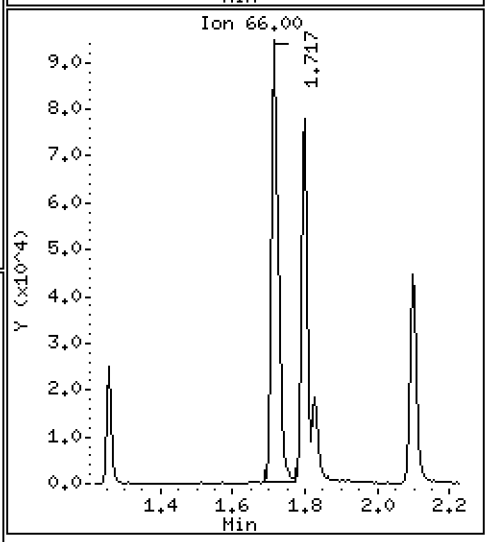












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 18

Date : 26-OCT-2016 08:14

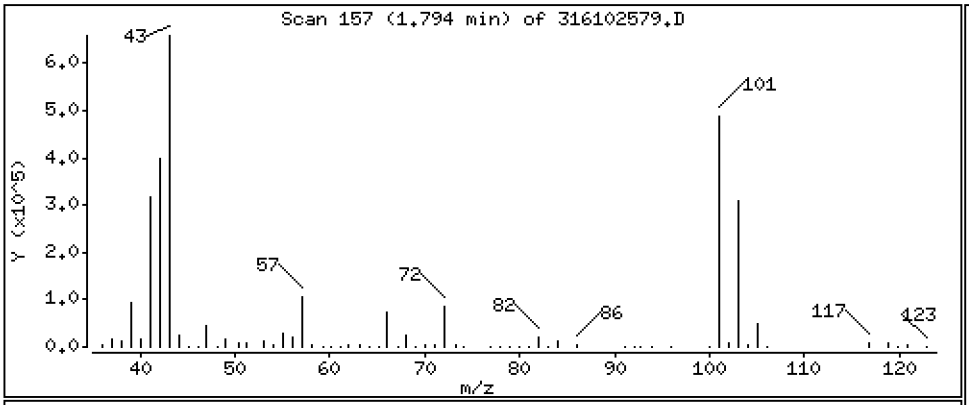
Client ID: Instrument: ms03.i

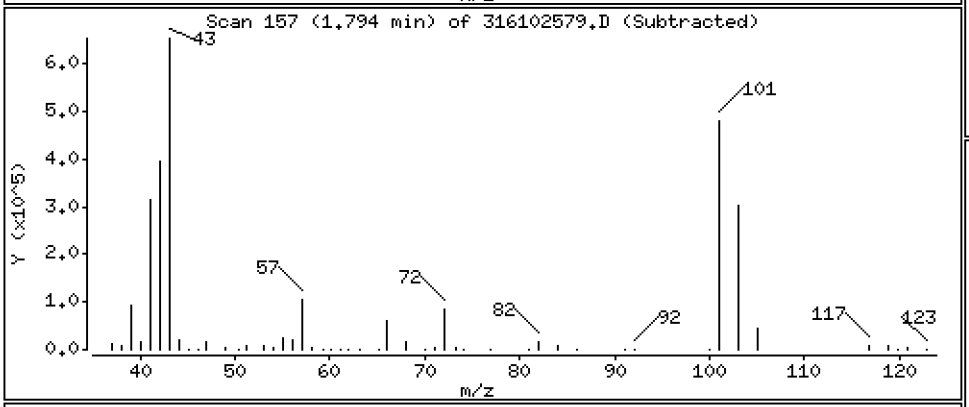
Sample Info: 1801;;1;2;4;;;

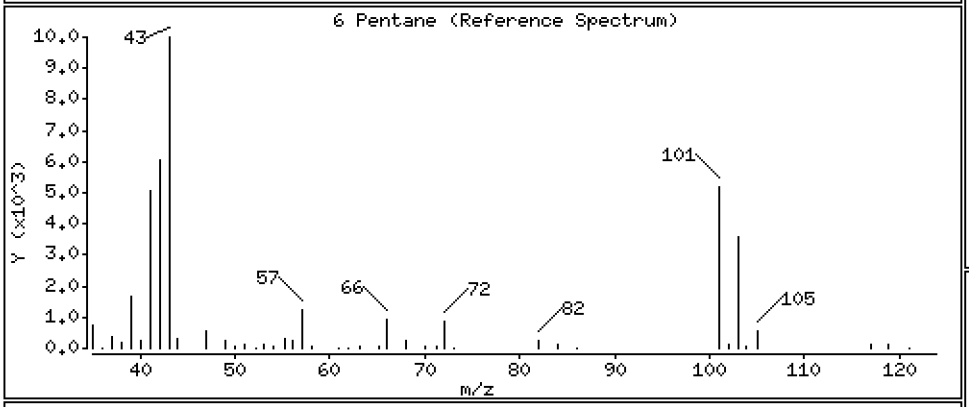
Purge Volume: 5.0 Operator: CJG

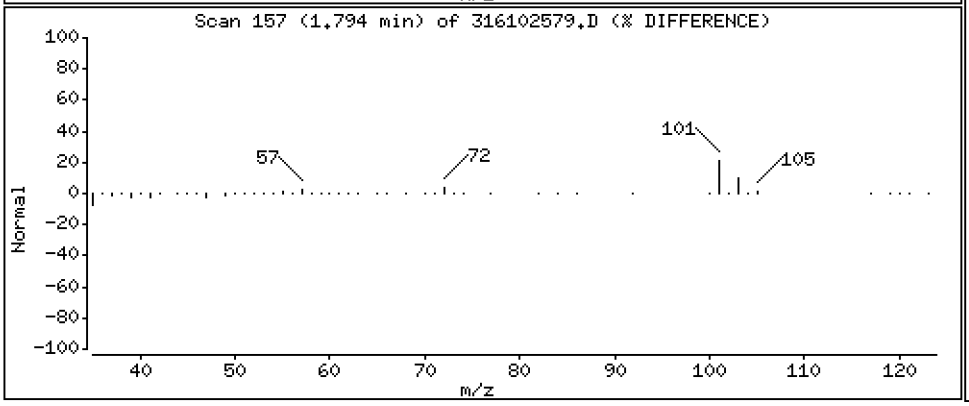
Column phase: DB-VRX Column diameter: 0.25

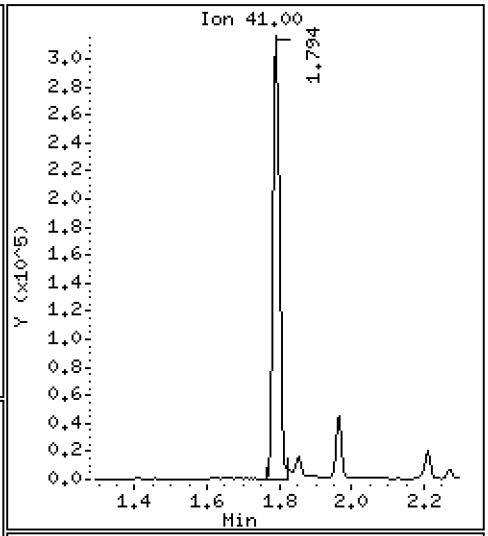
6 Pentane Concentration: 55.8807 ug/L

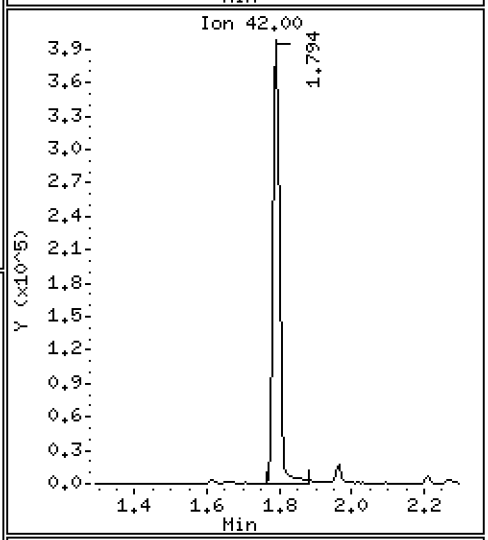


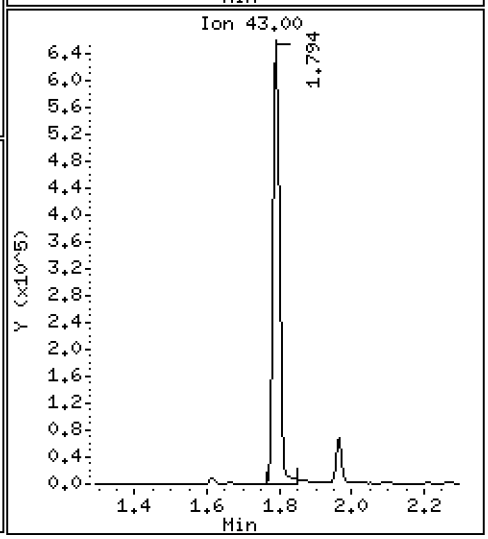












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 19

Date : 26-OCT-2016 08:14

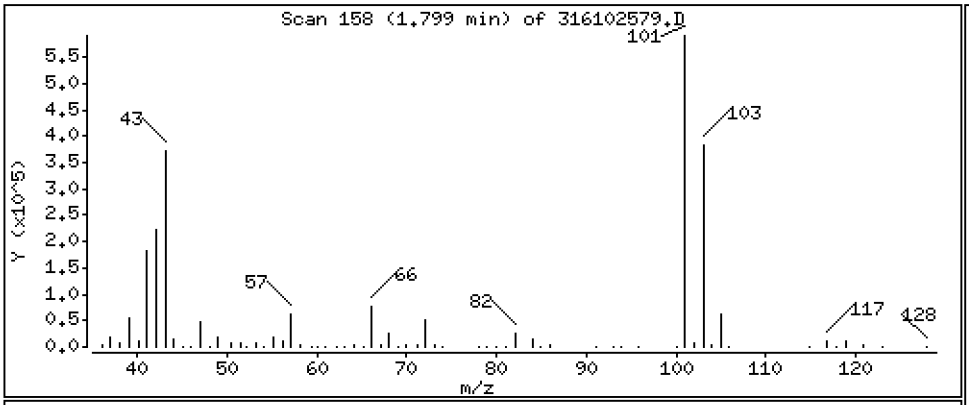
Client ID: Instrument: ms03.i

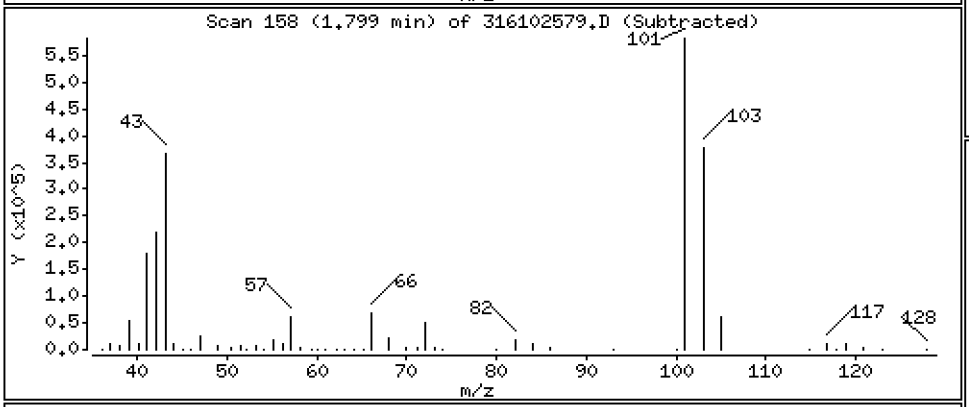
Sample Info: 1801;;1;2;4;;;

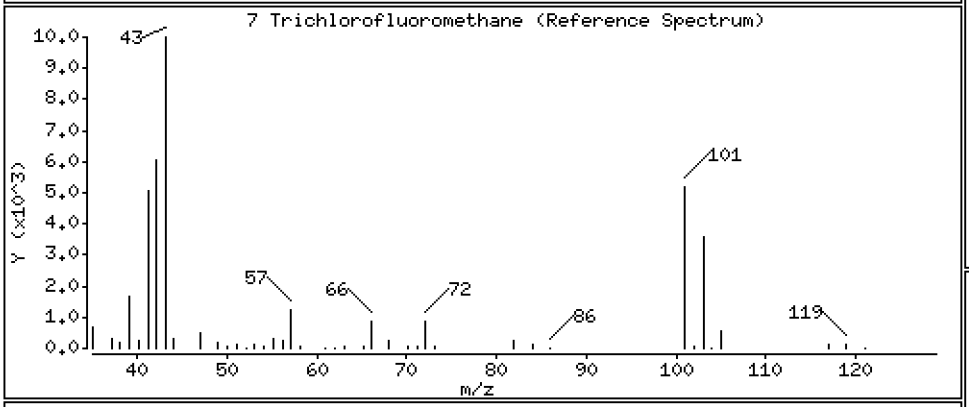
Purge Volume: 5.0 Operator: CJG

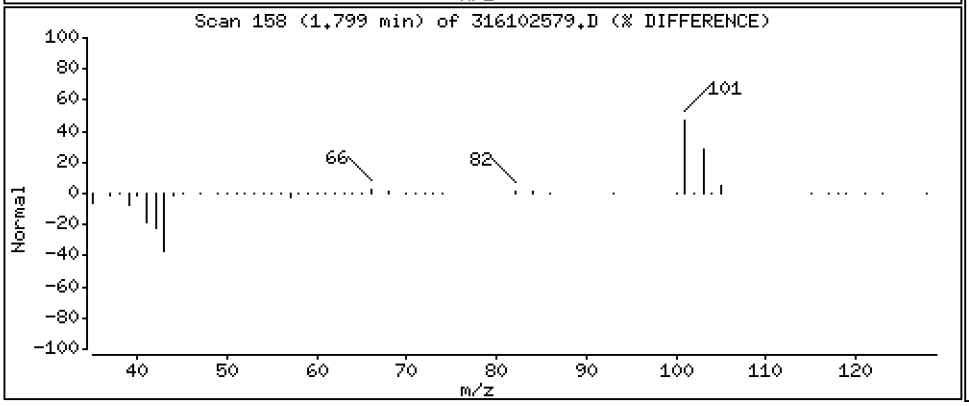
Column phase: DB-VRX Column diameter: 0.25

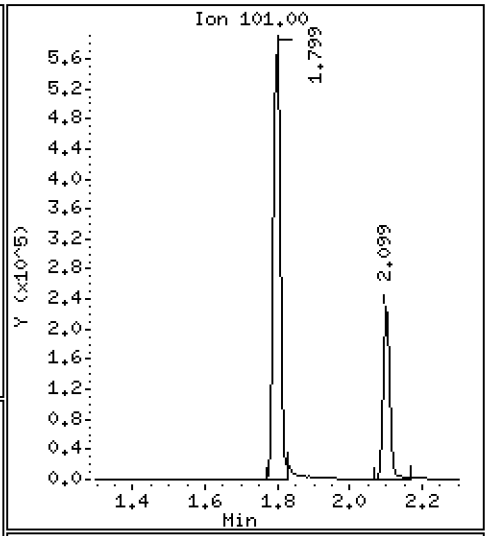
7 Trichlorofluoromethane Concentration: 50.6122 ug/L

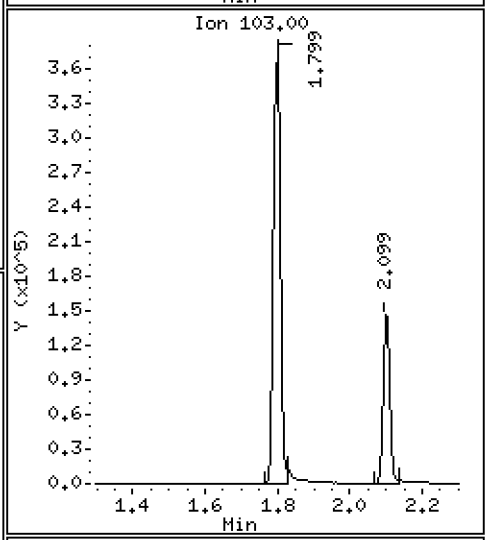


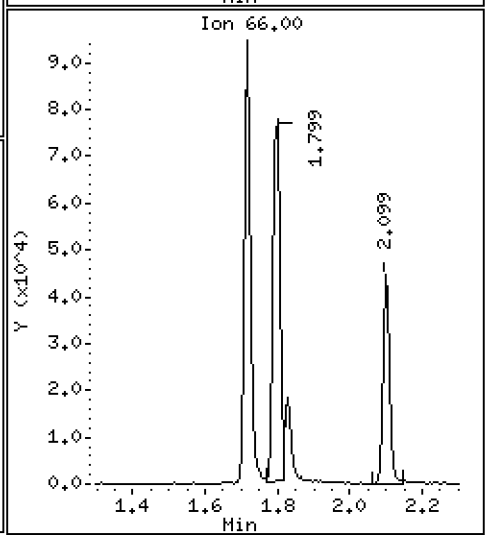












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 20

Date : 26-OCT-2016 08:14

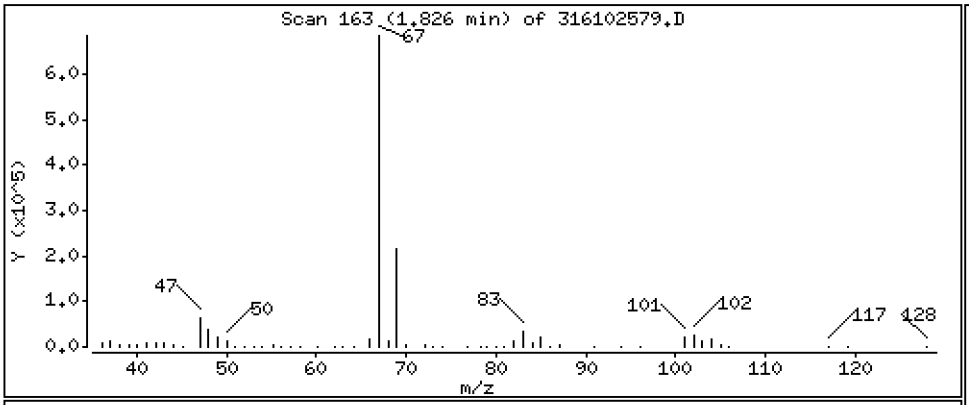
Client ID: Instrument: ms03.i

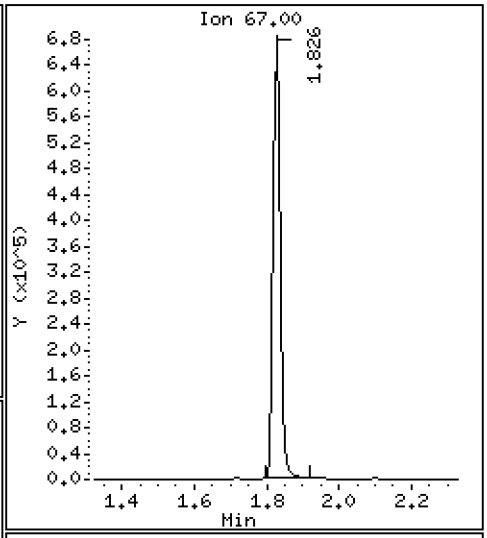
Sample Info: 1801;;1;2;4;;;

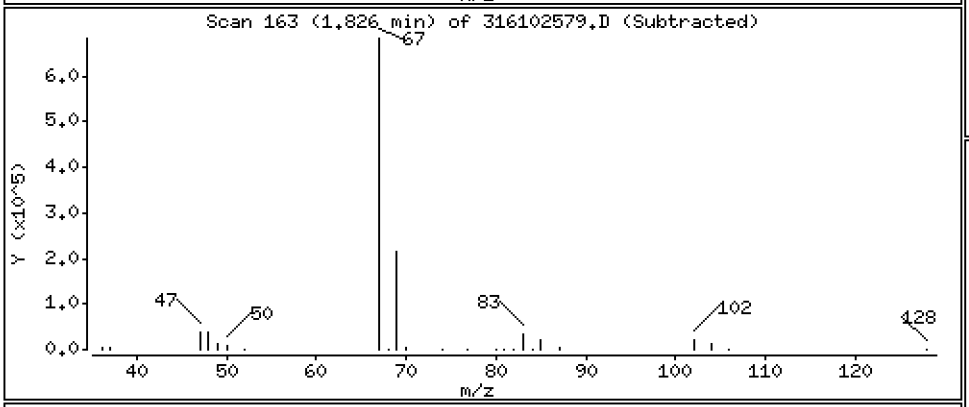
Purge Volume: 5.0 Operator: CJG

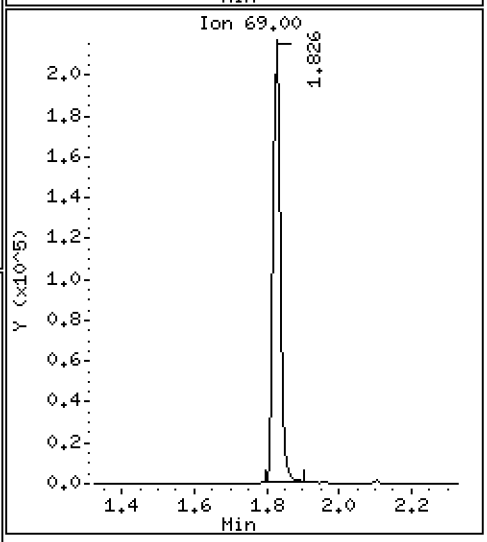
Column phase: DB-VRX Column diameter: 0.25

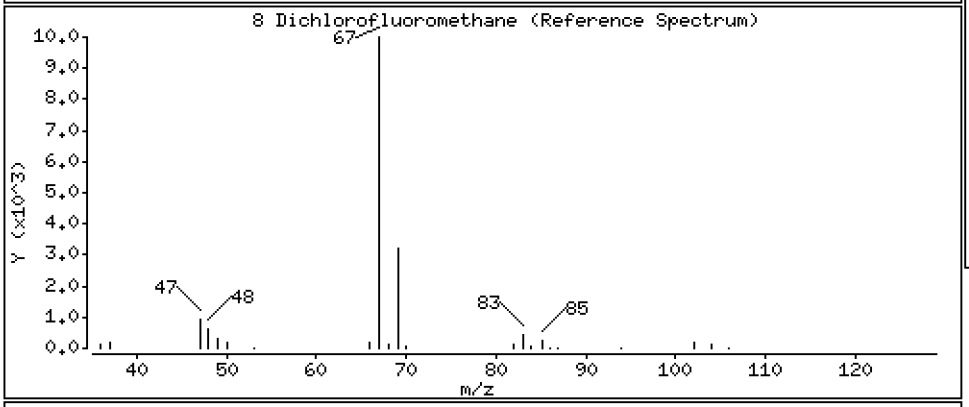
8 Dichlorofluoromethane Concentration: 46.8022 ug/L

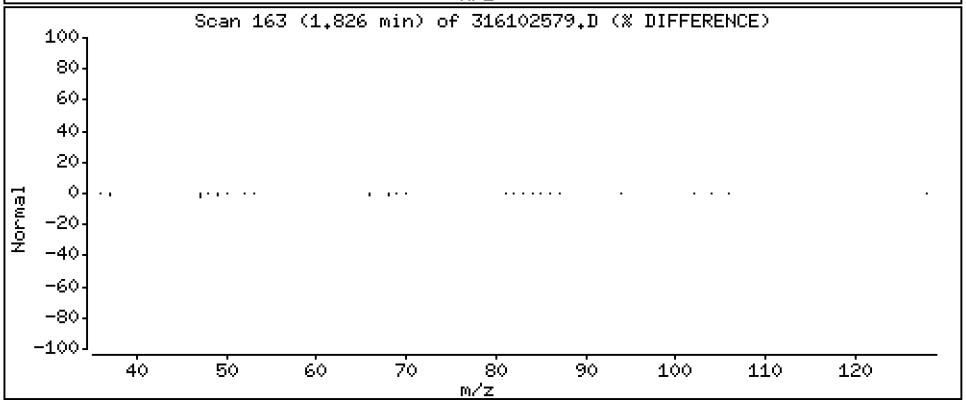












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 21

Date : 26-OCT-2016 08:14

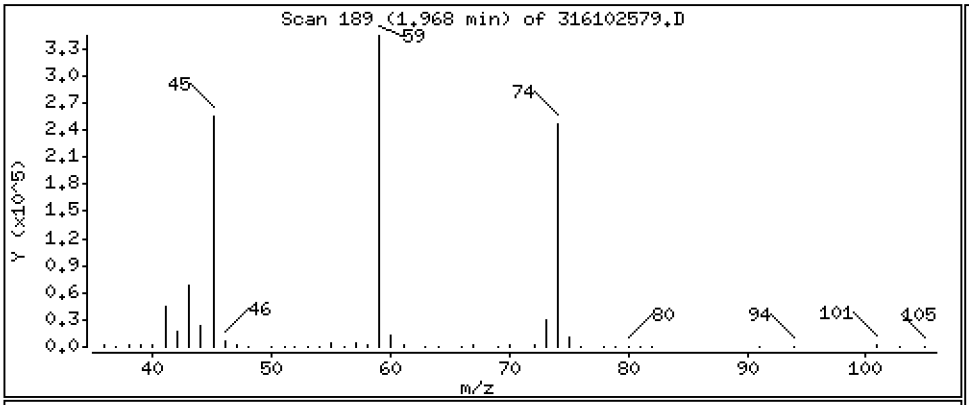
Client ID: Instrument: ms03.i

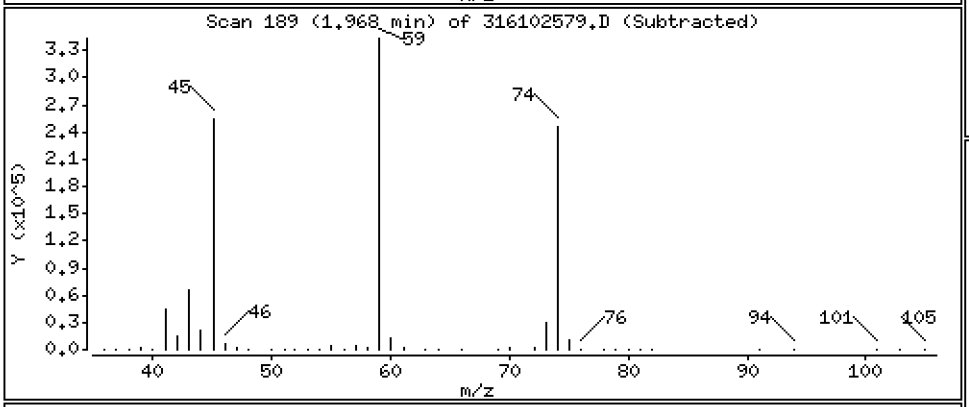
Sample Info: 1801;;1;2;4;;;

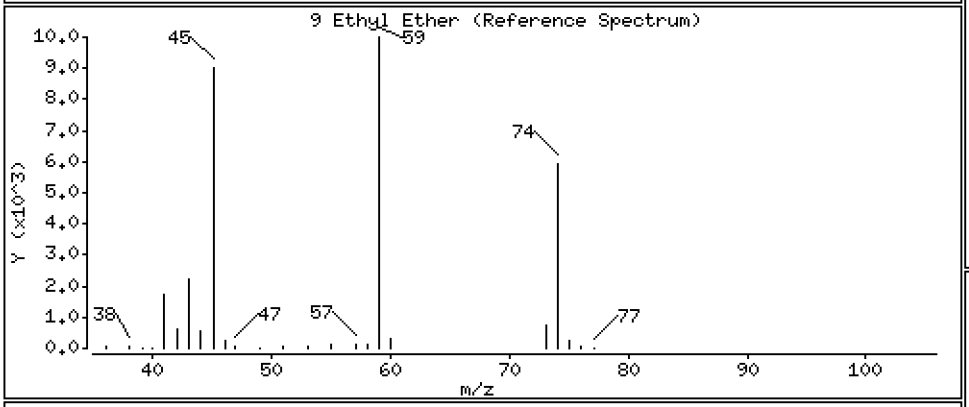
Purge Volume: 5.0 Operator: CJG

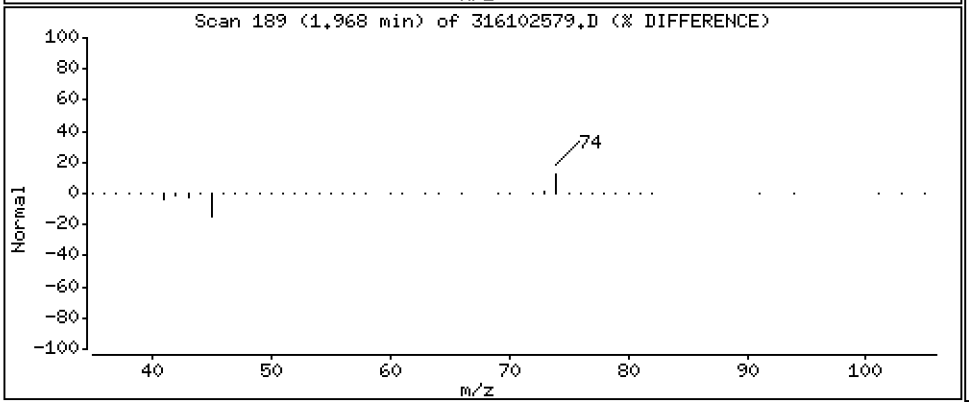
Column phase: DB-VRX Column diameter: 0.25

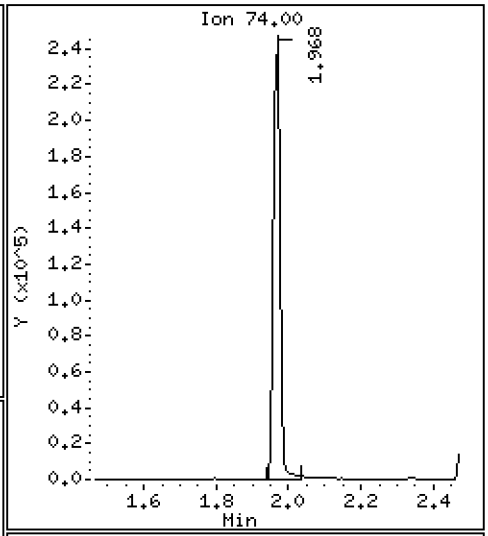
9 Ethyl Ether Concentration: 45.5922 ug/L

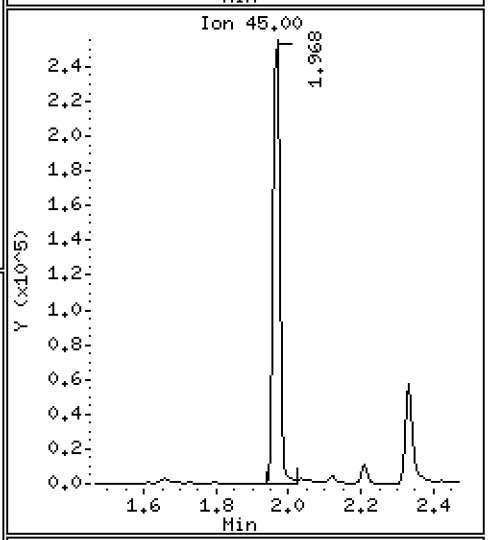


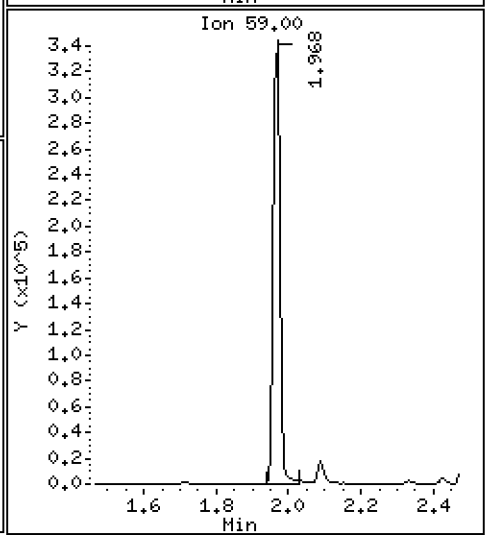












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 22

Date : 26-OCT-2016 08:14

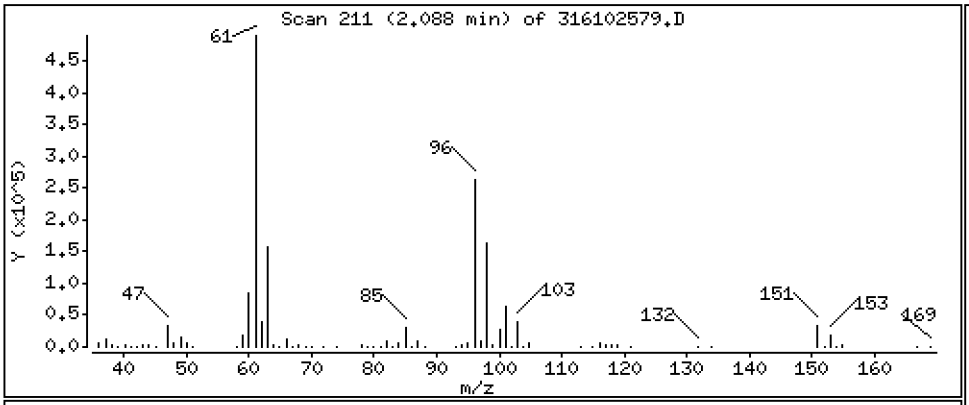
Client ID: Instrument: ms03.i

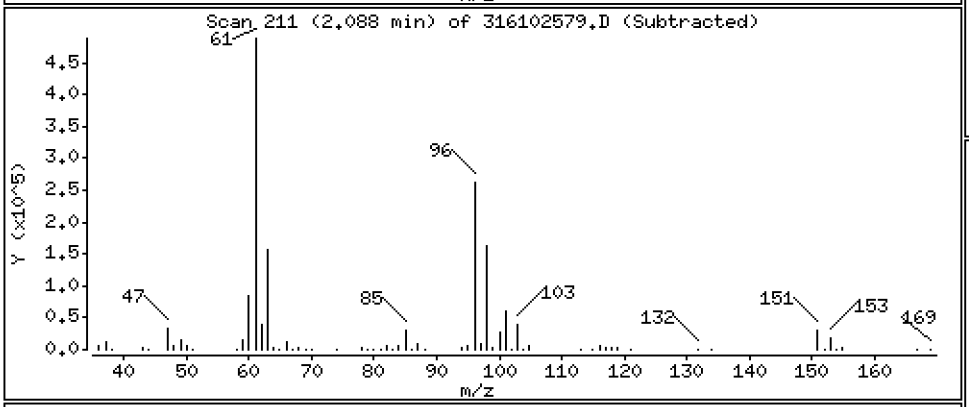
Sample Info: 1801;;1;2;4;;;

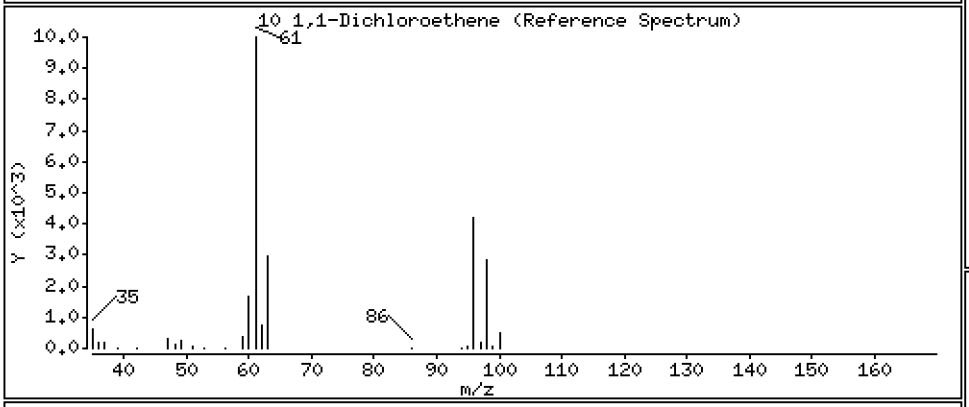
Purge Volume: 5.0 Operator: CJG

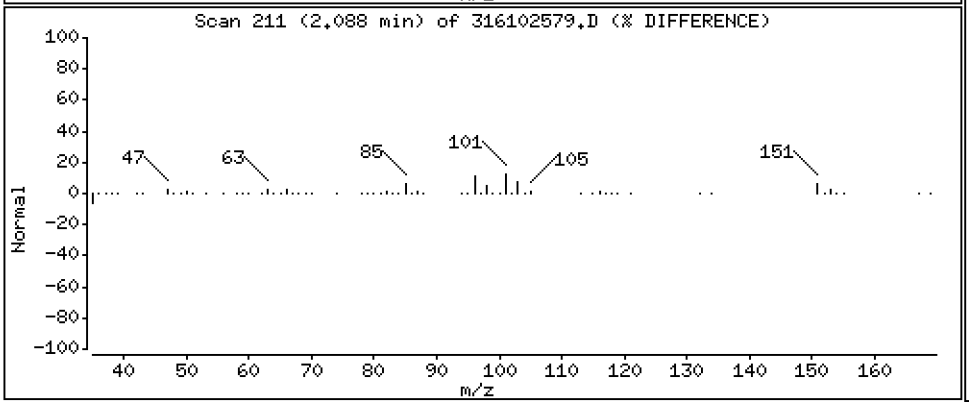
Column phase: DB-VRX Column diameter: 0.25

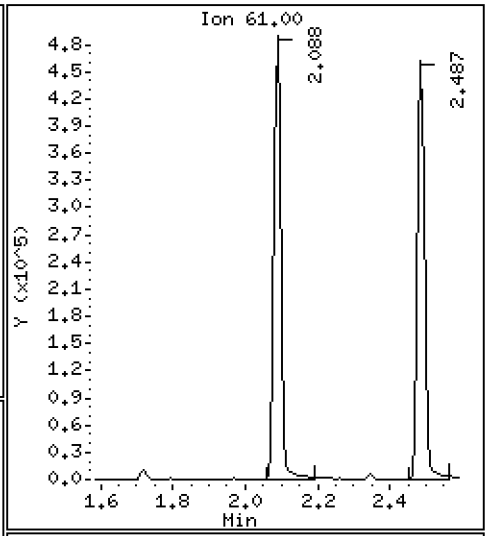
10 1,1-Dichloroethene Concentration: 47.7268 ug/L

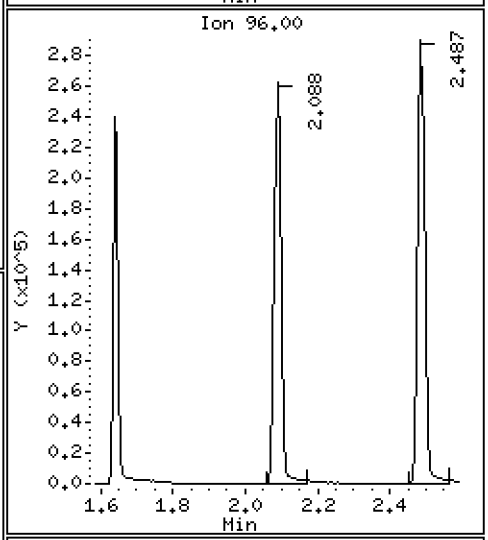


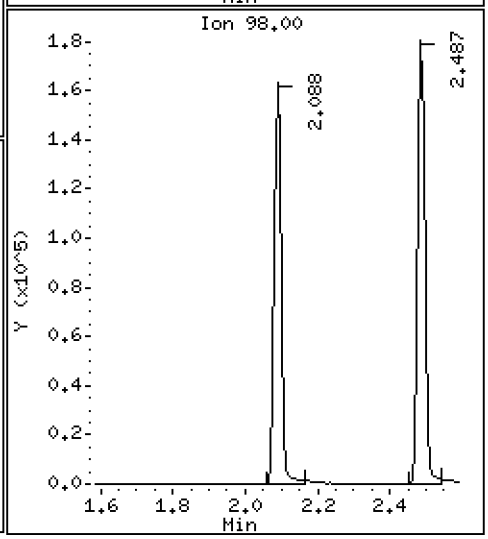












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 23

Date : 26-OCT-2016 08:14

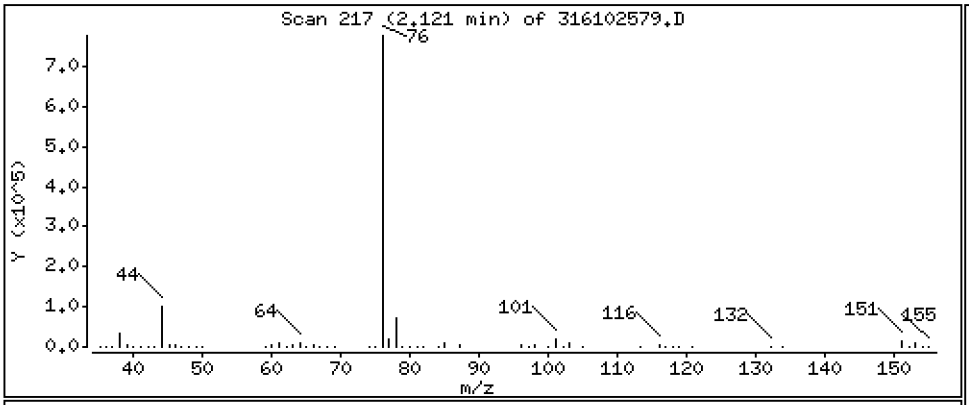
Client ID: Instrument: ms03.i

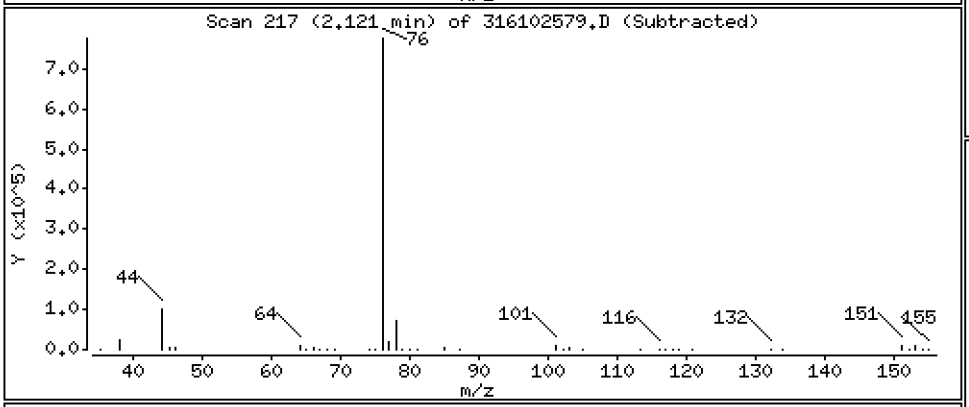
Sample Info: 1801;;1;2;4;;;

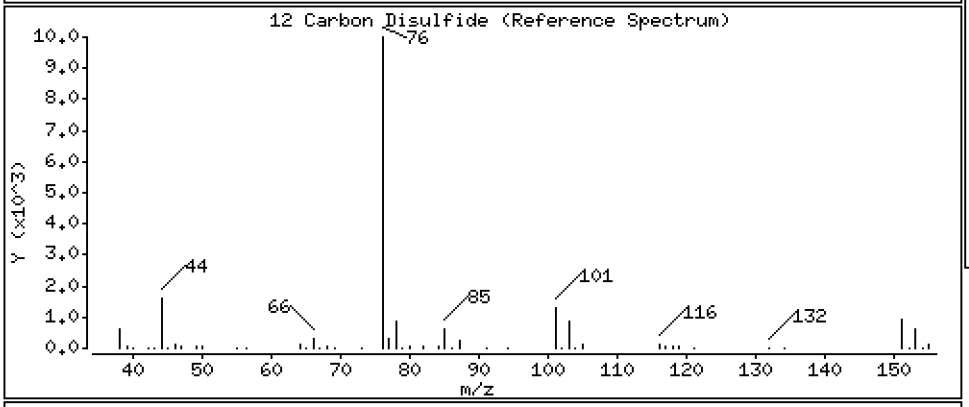
Purge Volume: 5.0 Operator: CJG

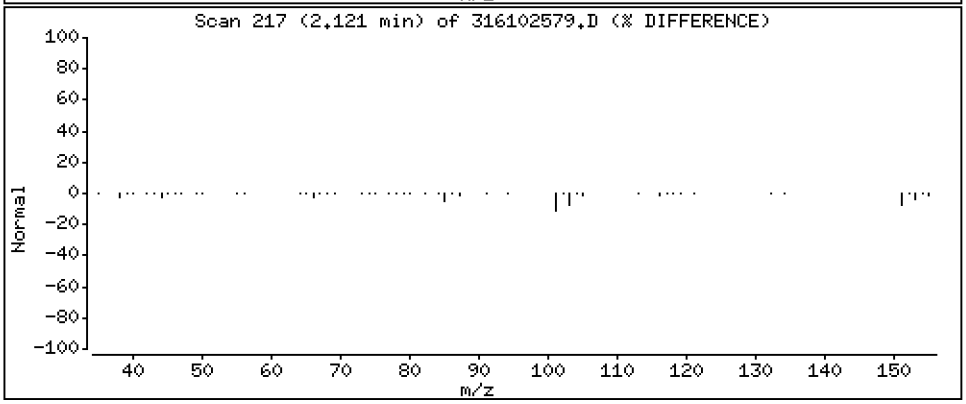
Column phase: DB-VRX Column diameter: 0.25

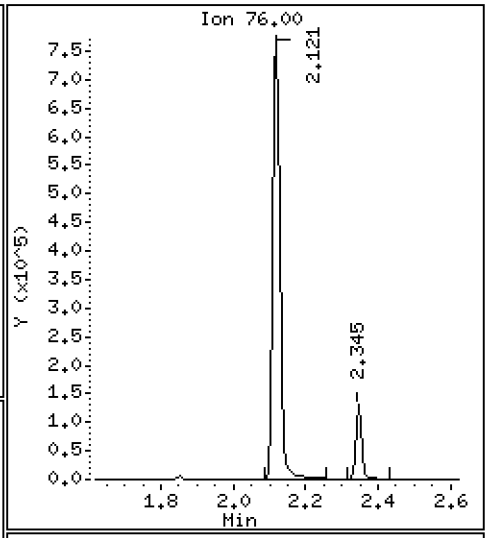
12 Carbon Disulfide Concentration: 46.5335 ug/L

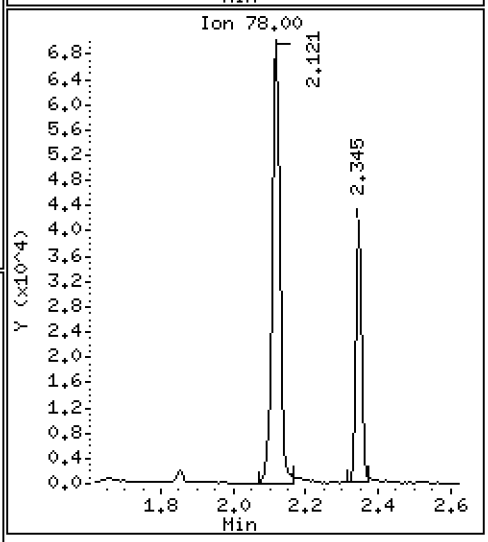












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 24

Date : 26-OCT-2016 08:14

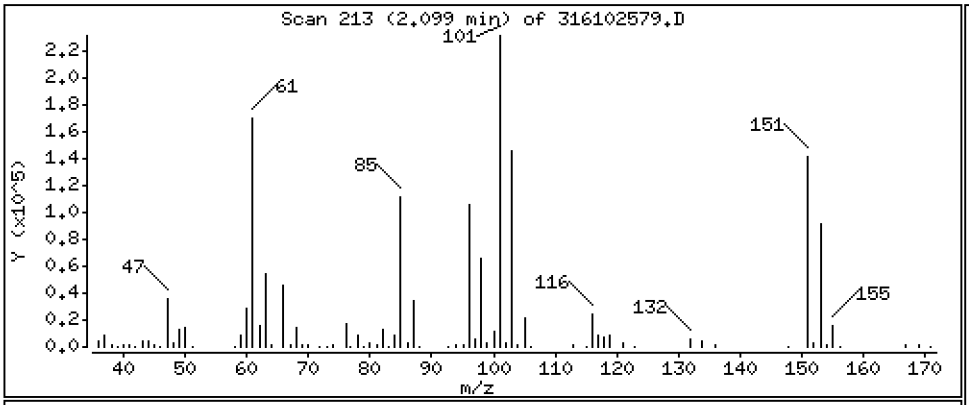
Client ID: Instrument: ms03.i

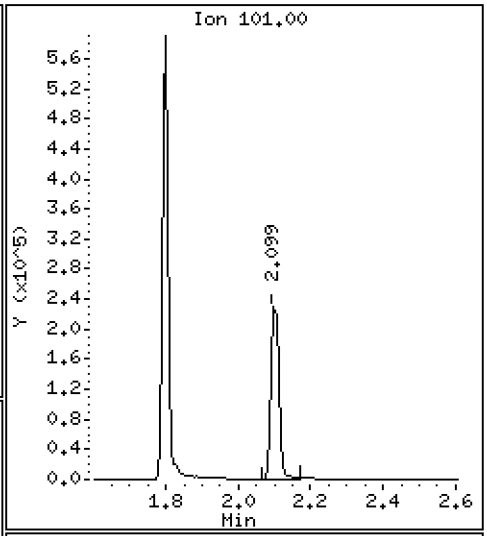
Sample Info: 1801;;1;2;4;;;

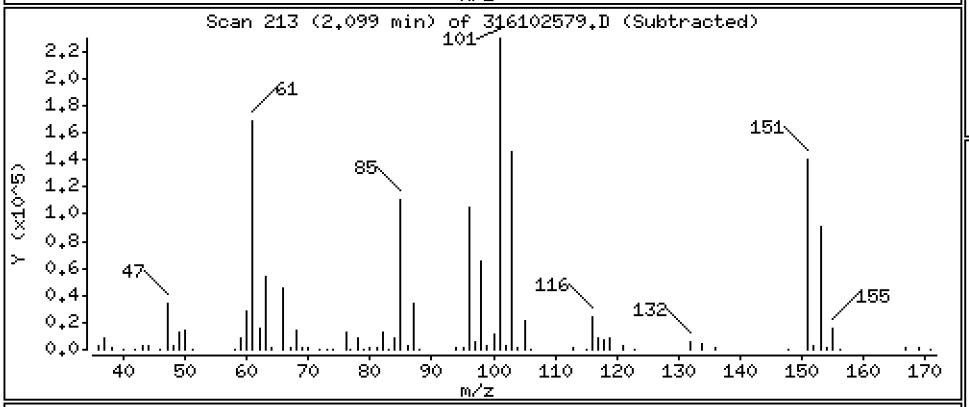
Purge Volume: 5.0 Operator: CJG

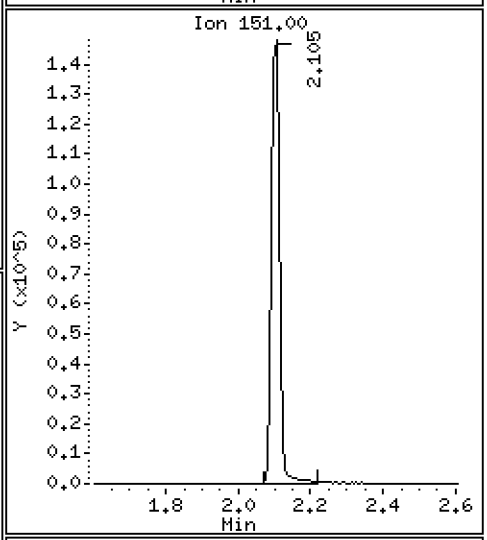
Column phase: DB-VRX Column diameter: 0.25

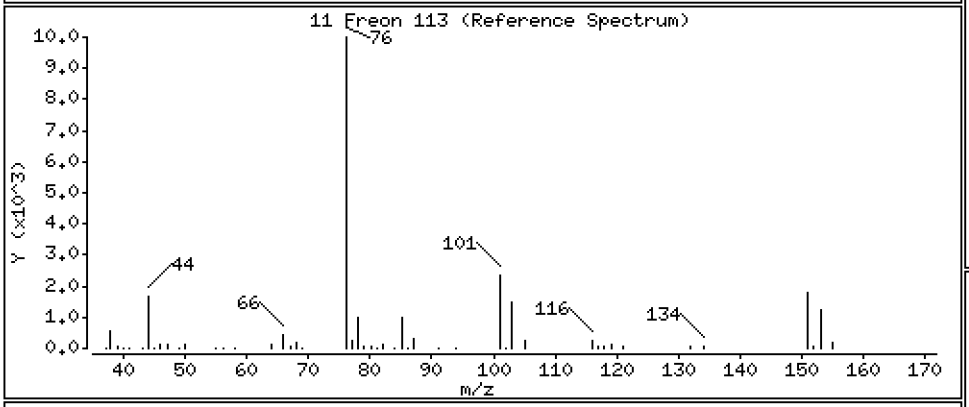
11 Freon 113 Concentration: 45.9665 ug/L

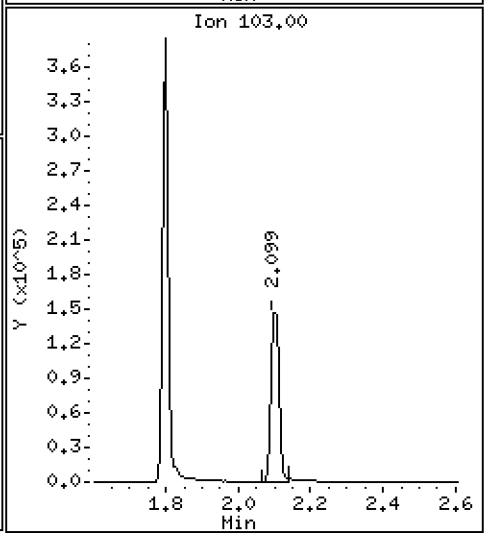


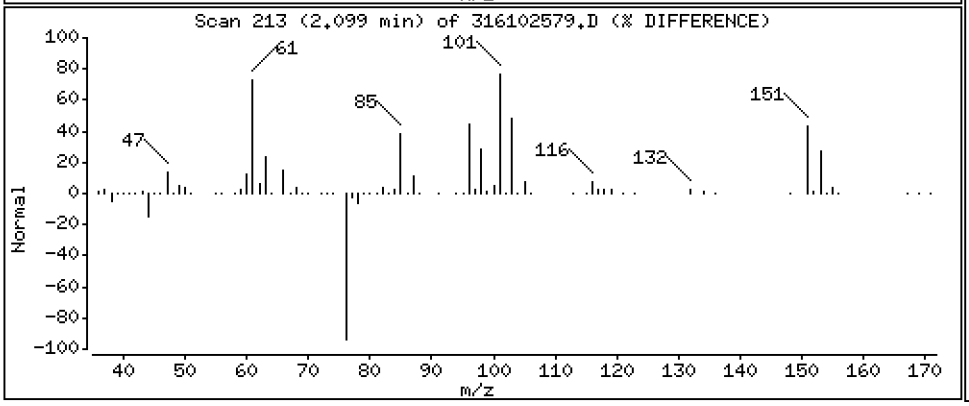












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 25

Date : 26-OCT-2016 08:14

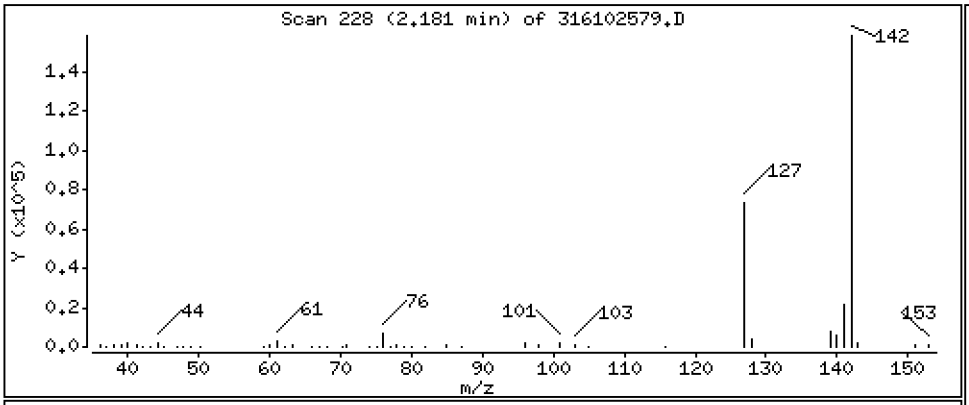
Client ID: Instrument: ms03.i

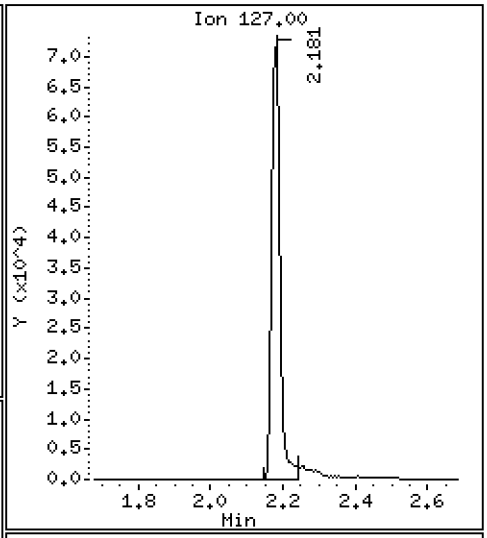
Sample Info: 1801;;1;2;4;;;

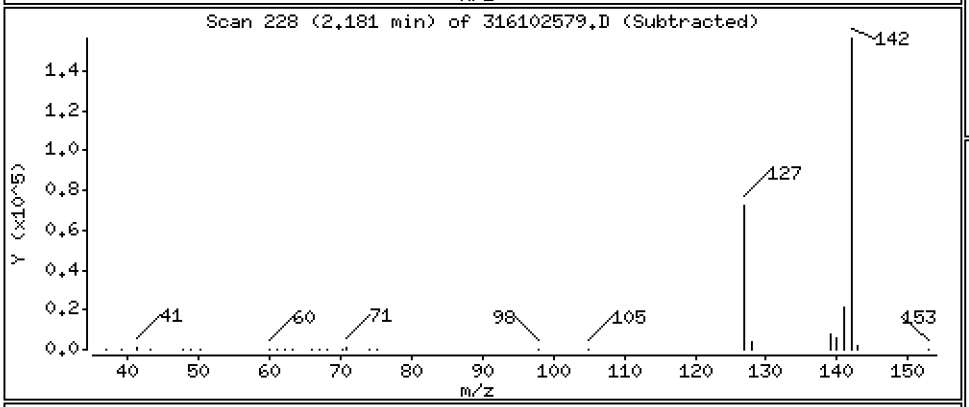
Purge Volume: 5.0 Operator: CJG

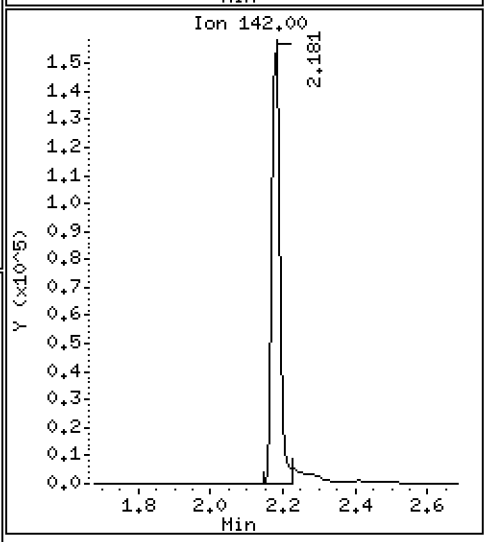
Column phase: DB-VRX Column diameter: 0.25

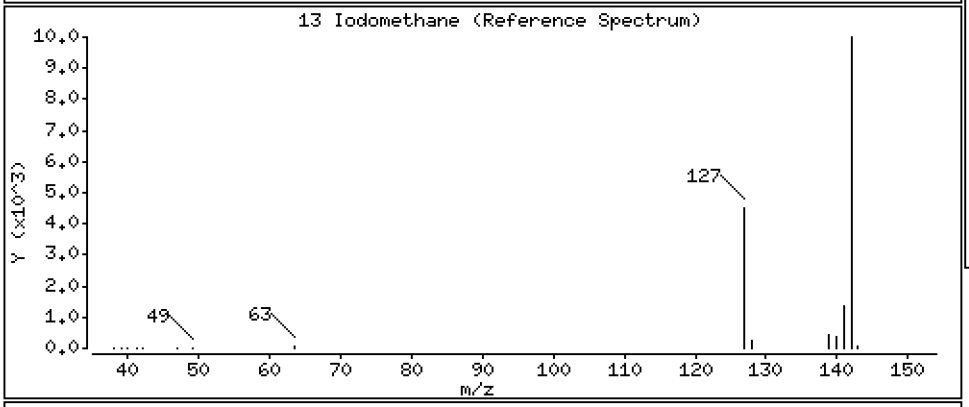
13 Iodomethane Concentration: 53.7673 ug/L

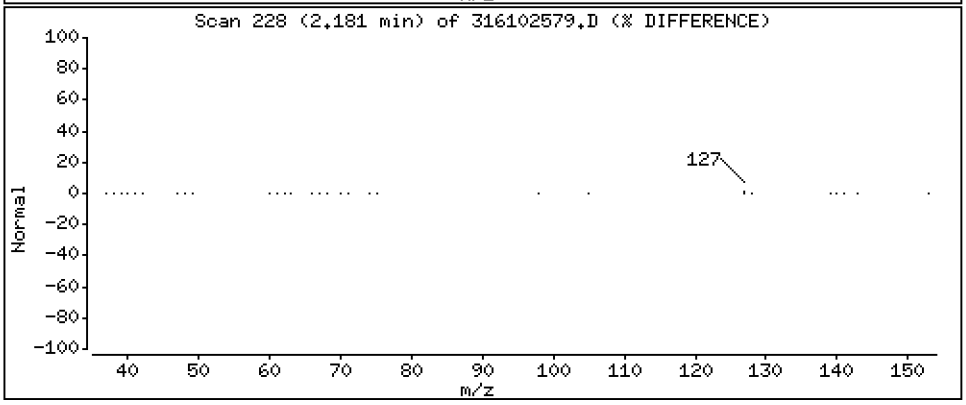












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 26

Date : 26-OCT-2016 08:14

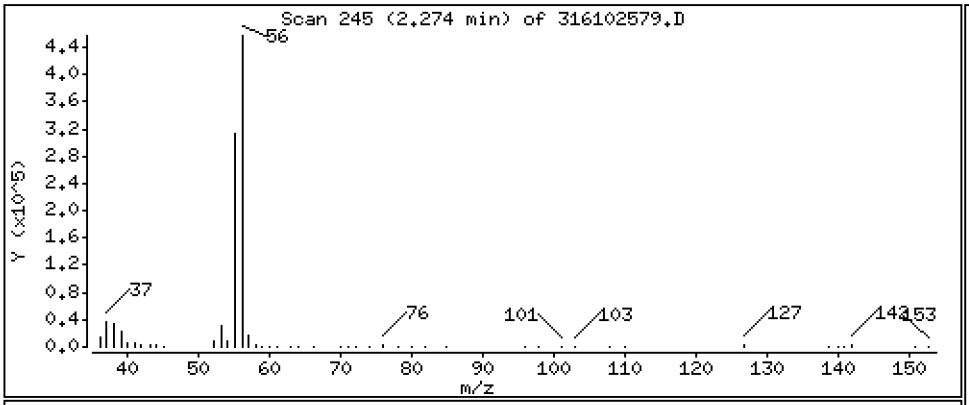
Client ID: Instrument: ms03.i

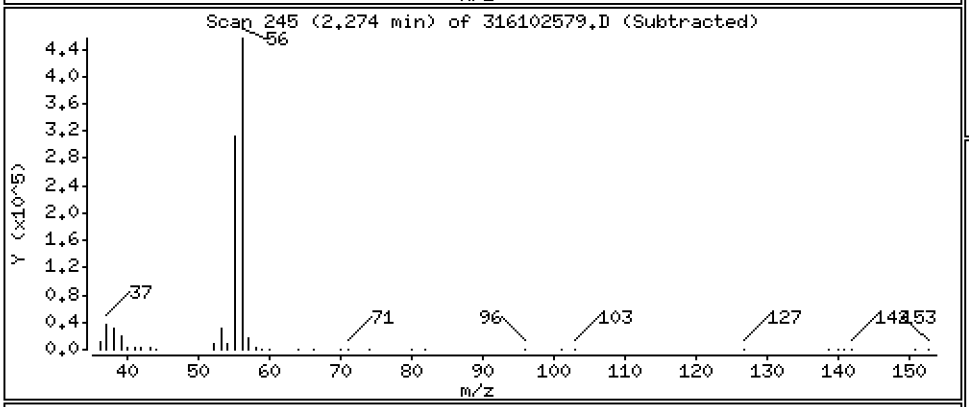
Sample Info: 1801;;1;2;4;;;

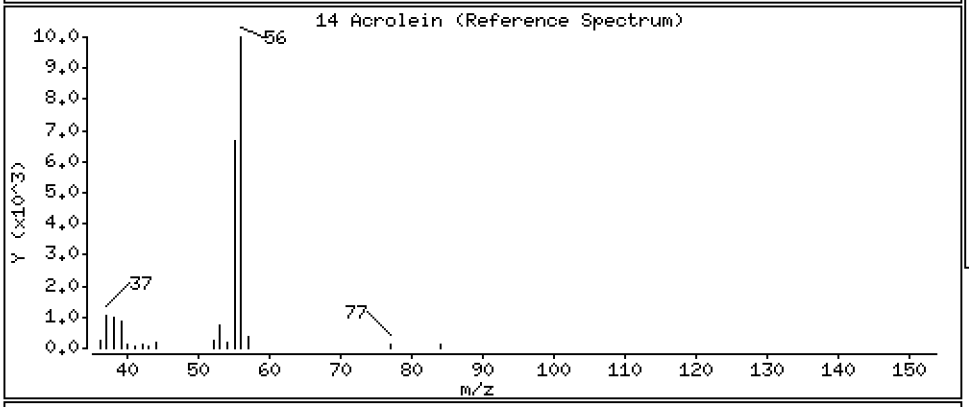
Purge Volume: 5.0 Operator: CJG

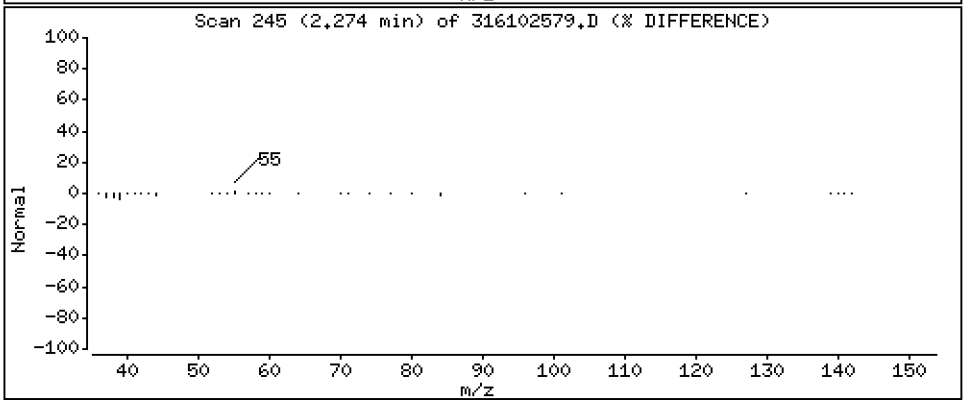
Column phase: DB-VRX Column diameter: 0.25

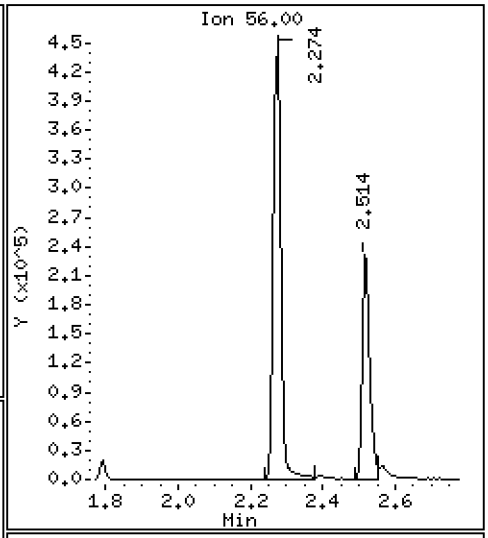
14 Acrolein Concentration: 505.519 ug/L

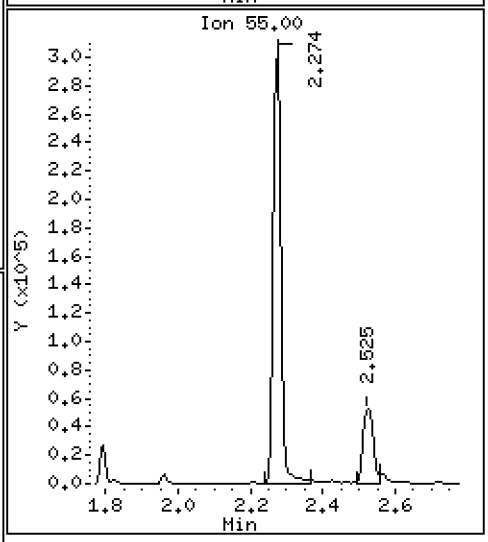












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 27

Date : 26-OCT-2016 08:14

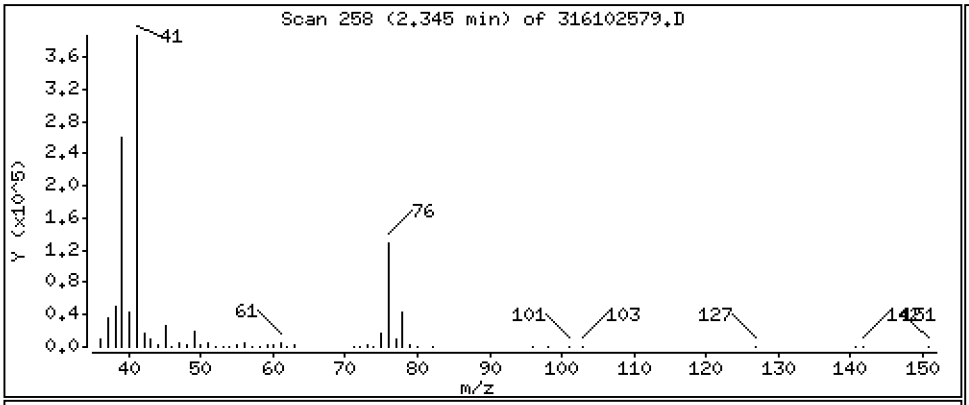
Client ID: Instrument: ms03.i

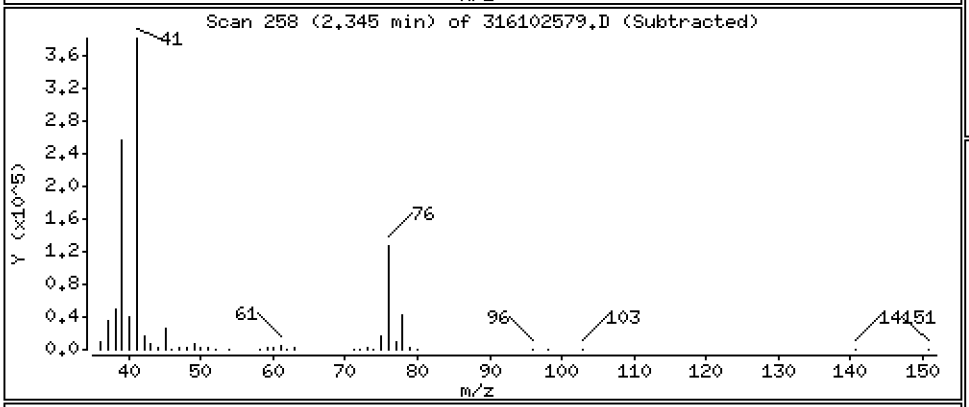
Sample Info: 1801;;1;2;4;;;

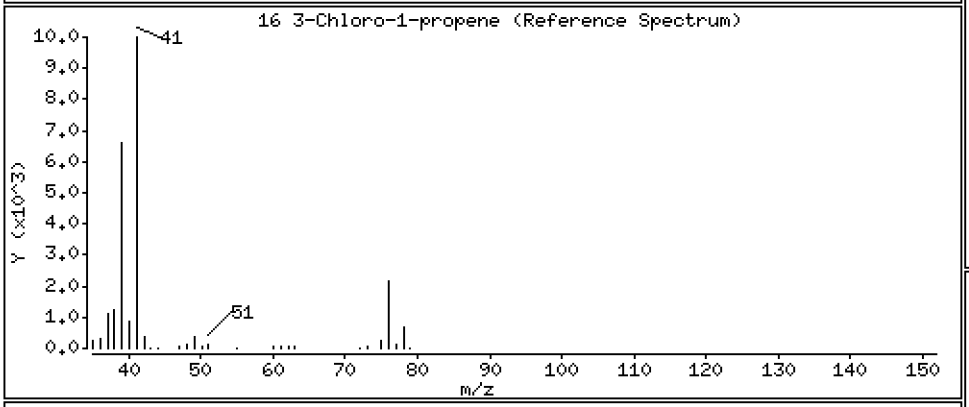
Purge Volume: 5.0 Operator: CJG

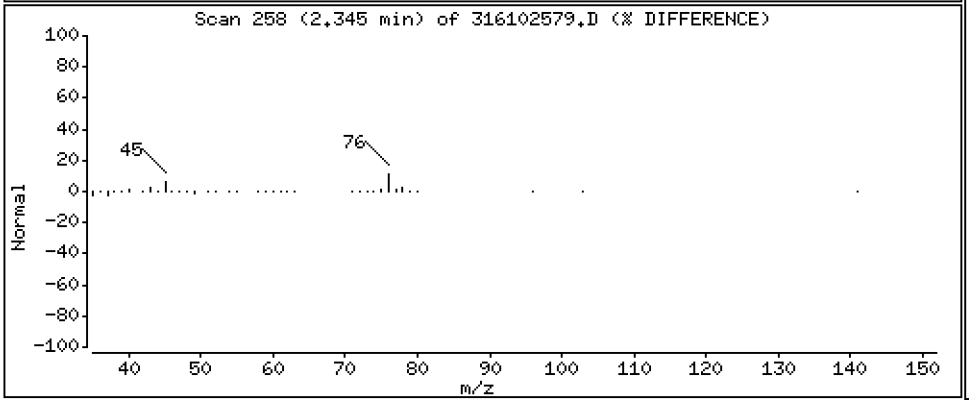
Column phase: DB-VRX Column diameter: 0.25

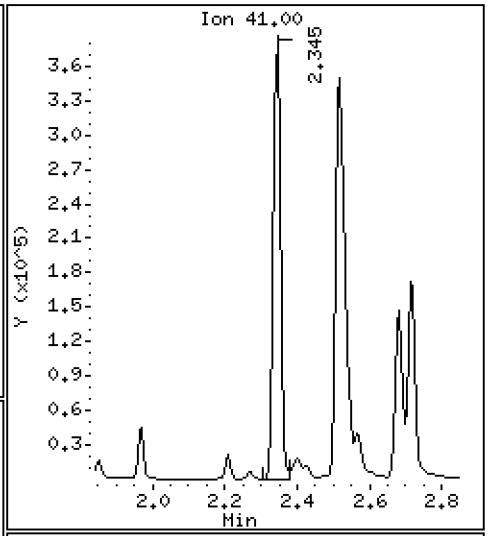
16 3-Chloro-1-propene Concentration: 45.9817 ug/L

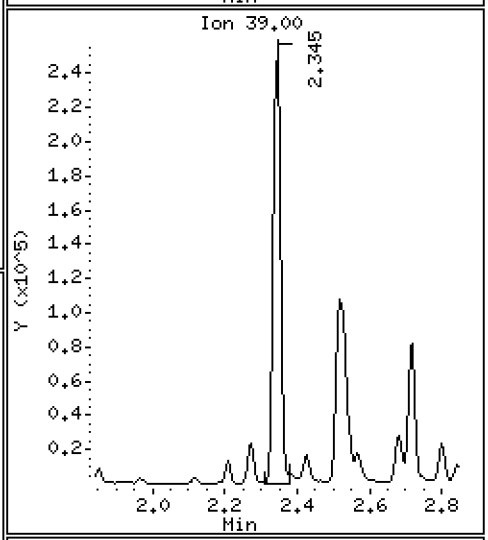


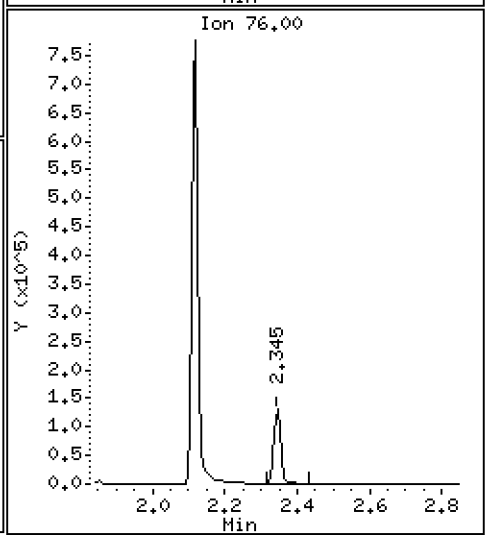












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 28

Date : 26-OCT-2016 08:14

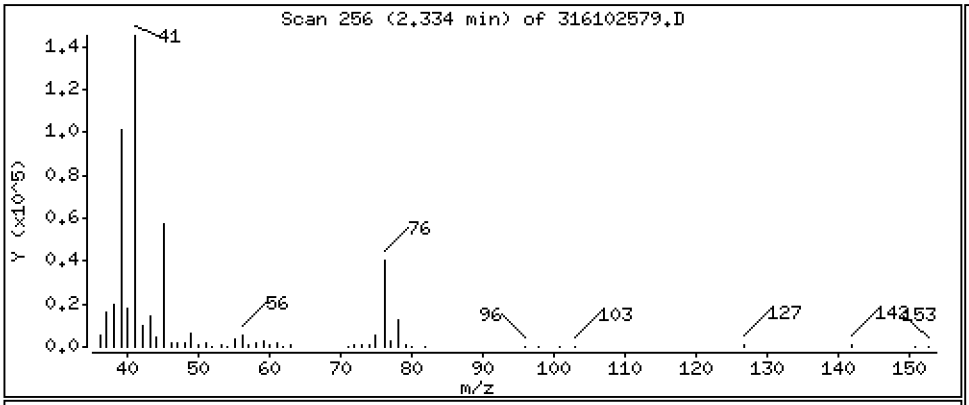
Client ID: Instrument: ms03.i

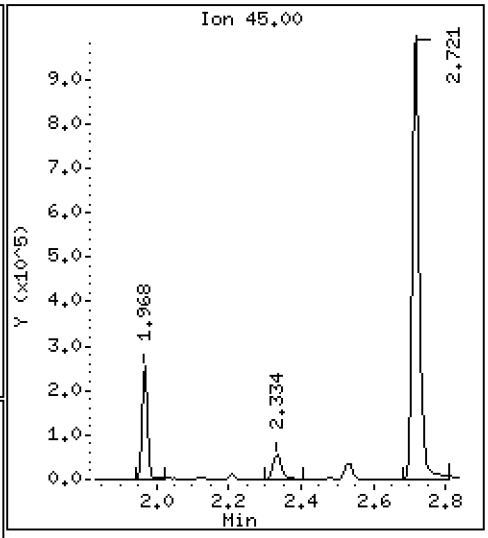
Sample Info: 1801;;1;2;4;;;

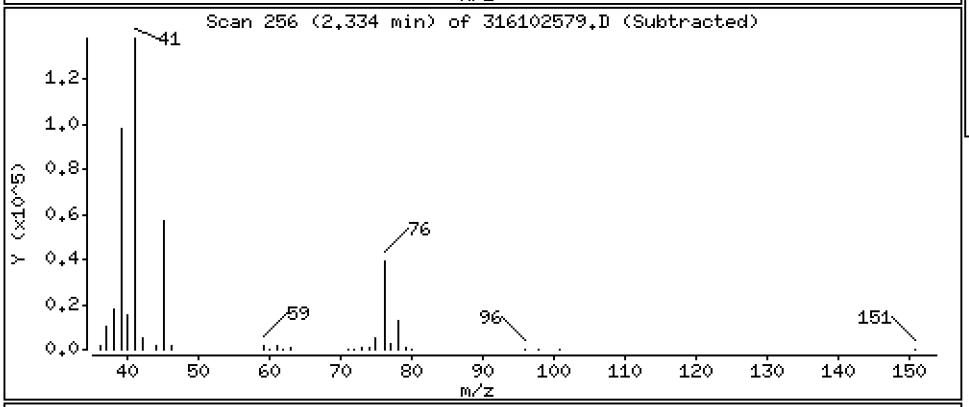
Purge Volume: 5.0 Operator: CJG

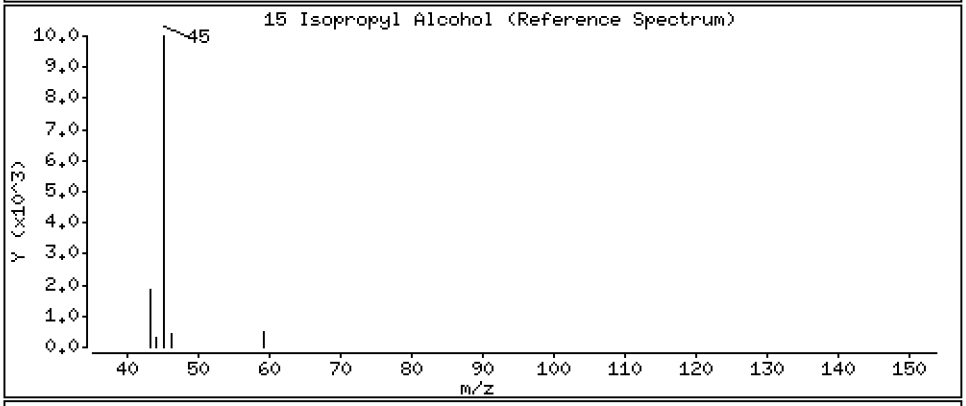
Column phase: DB-VRX Column diameter: 0.25

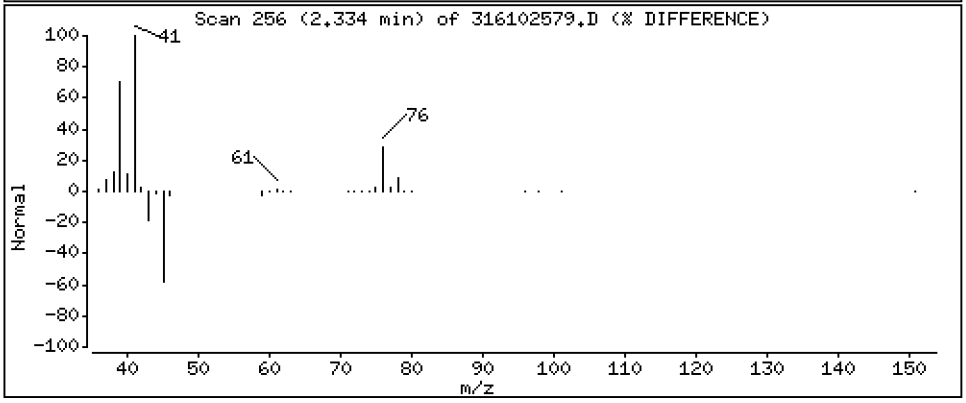
15 Isopropyl Alcohol Concentration: 337.071 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 29

Date : 26-OCT-2016 08:14

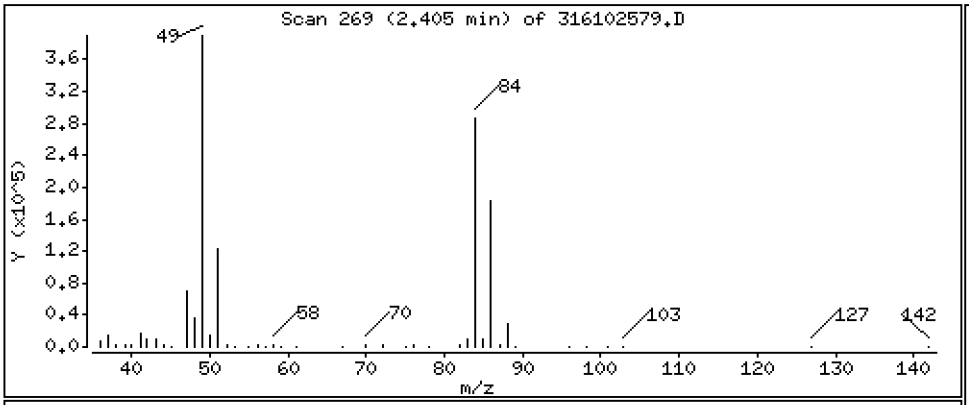
Client ID: Instrument: ms03.i

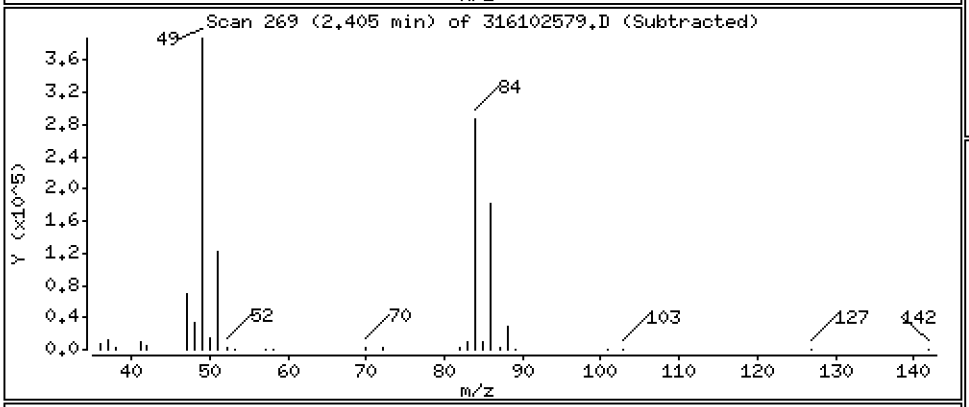
Sample Info: 1801;;1;2;4;;;

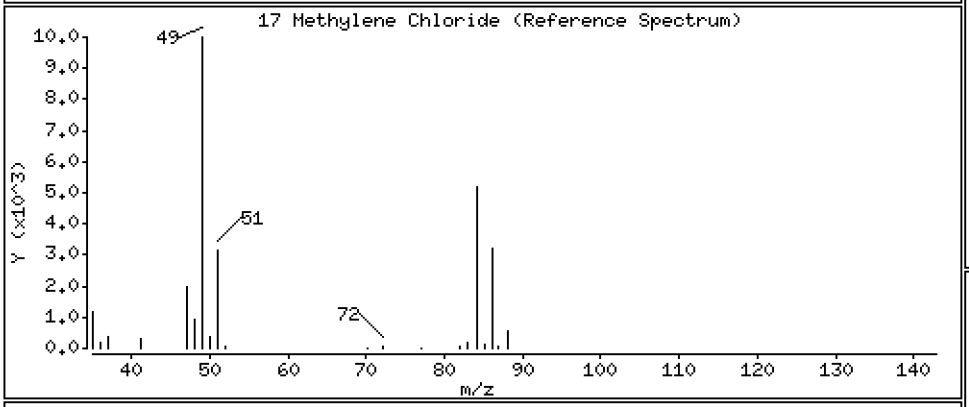
Purge Volume: 5.0 Operator: CJG

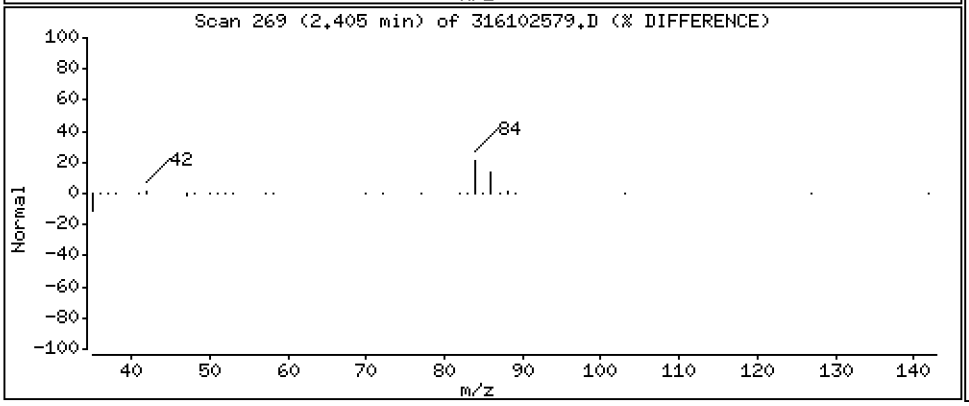
Column phase: DB-VRX Column diameter: 0.25

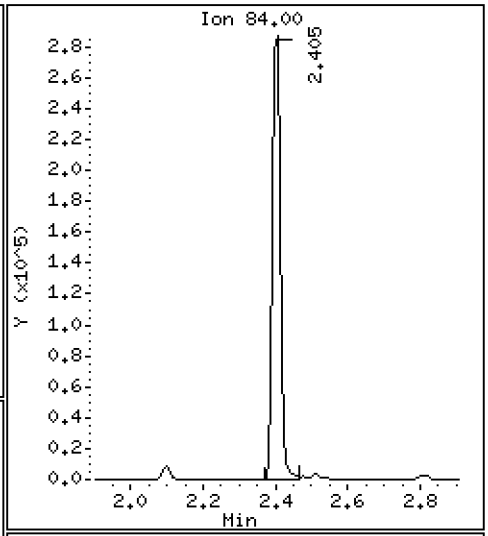
17 Methylene Chloride Concentration: 49.3669 ug/L

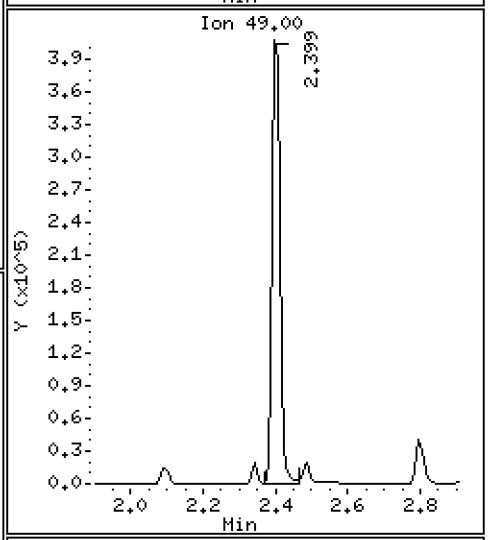


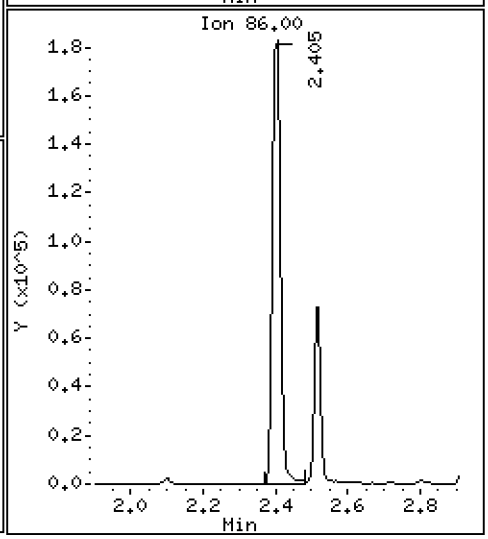












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 30

Date : 26-OCT-2016 08:14

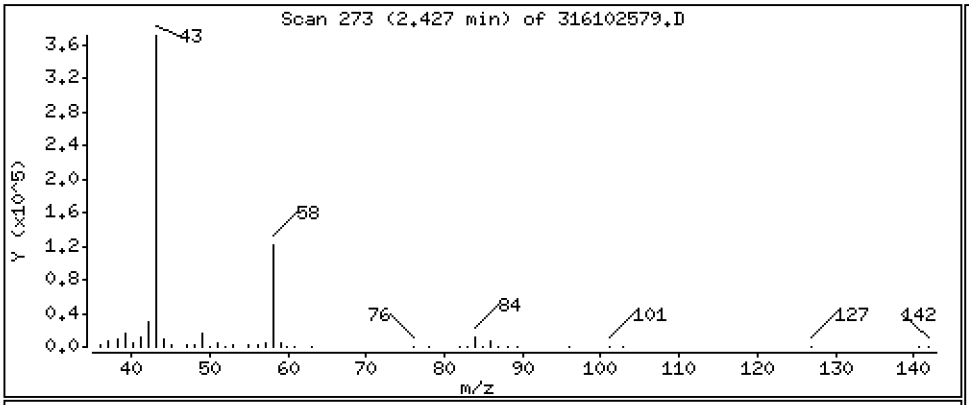
Client ID: Instrument: ms03.i

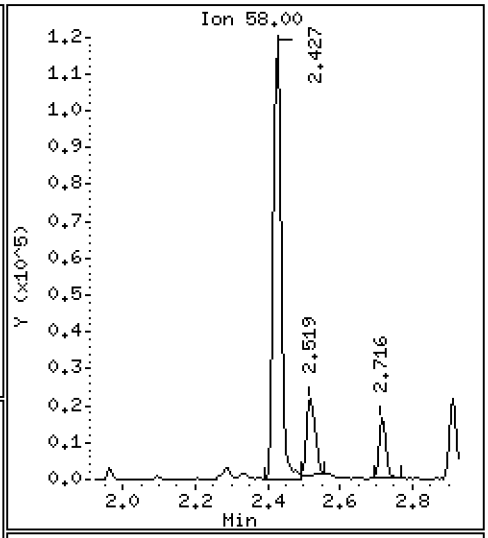
Sample Info: 1801;;1;2;4;;;

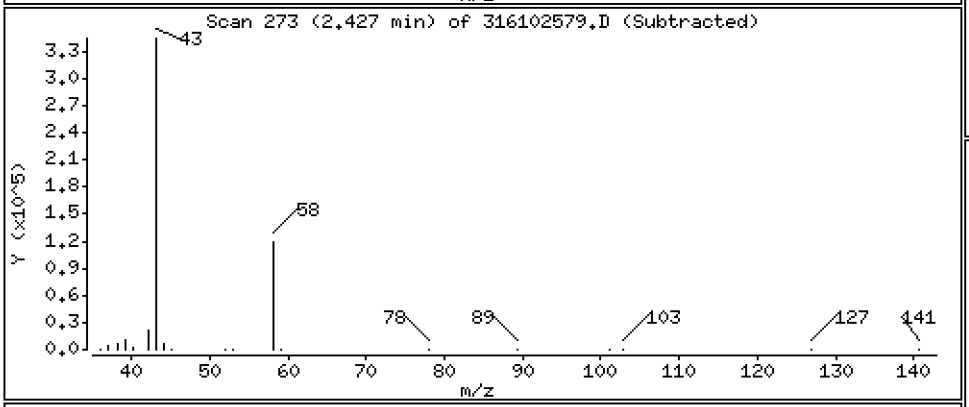
Purge Volume: 5.0 Operator: CJG

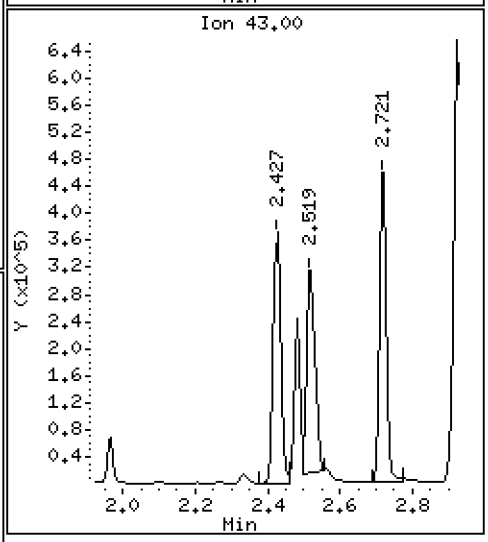
Column phase: DB-VRX Column diameter: 0.25

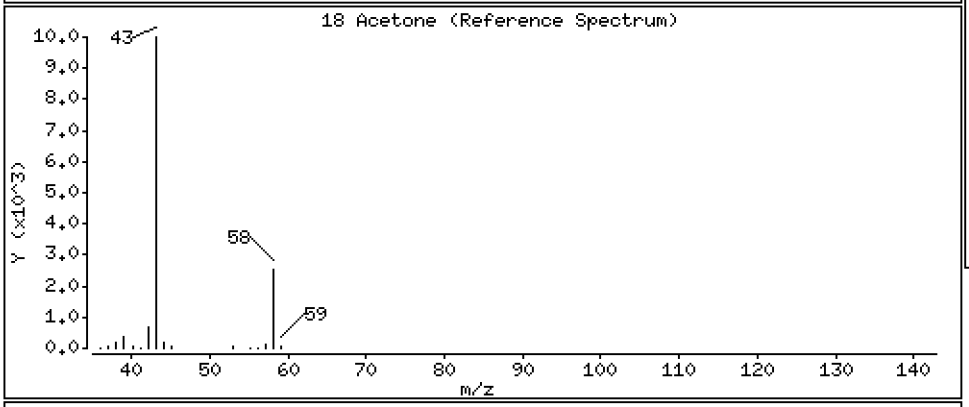
18 Acetone Concentration: 254.695 ug/L

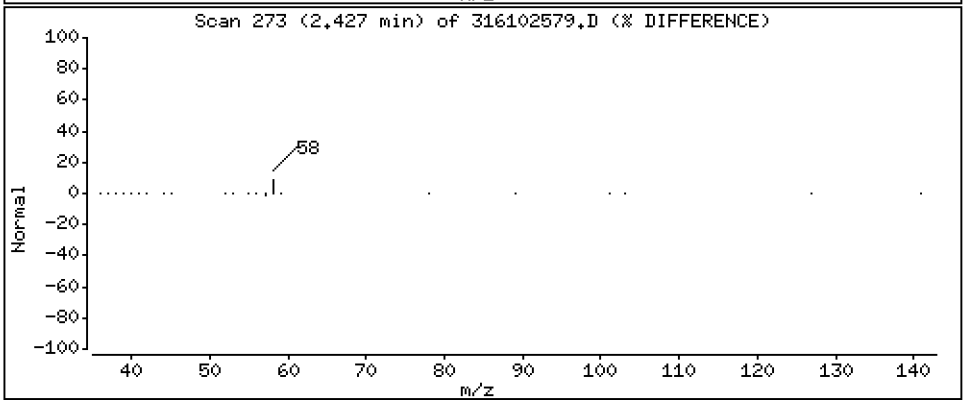












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 31

Date : 26-OCT-2016 08:14

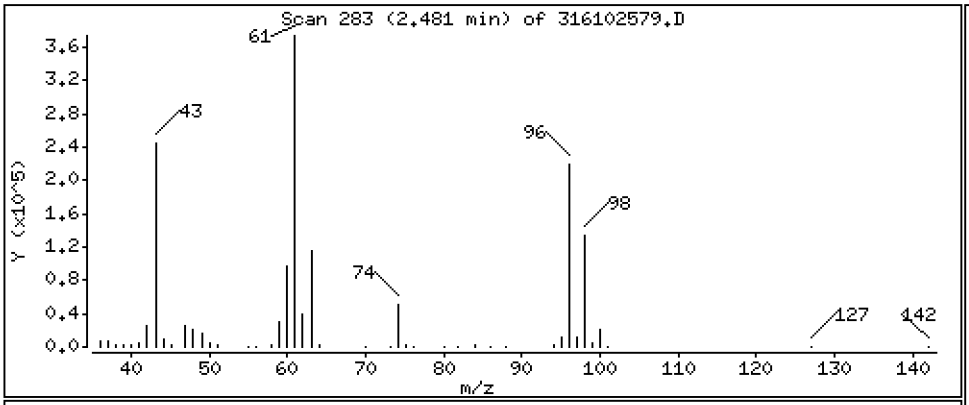
Client ID: Instrument: ms03.i

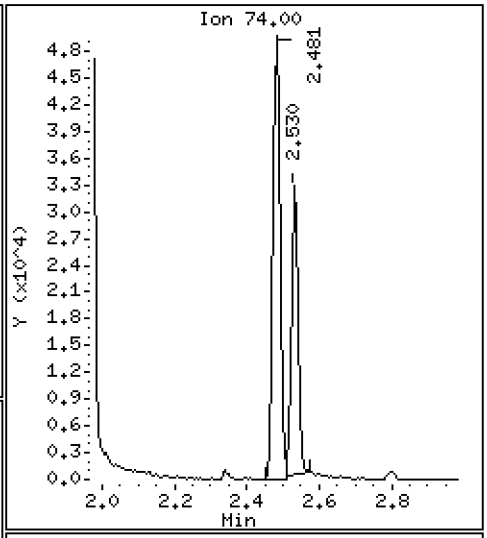
Sample Info: 1801;;1;2;4;;;

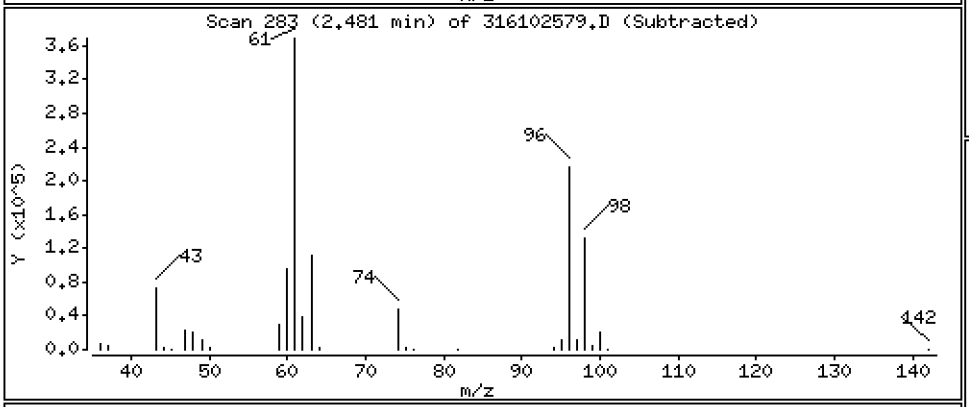
Purge Volume: 5.0 Operator: CJG

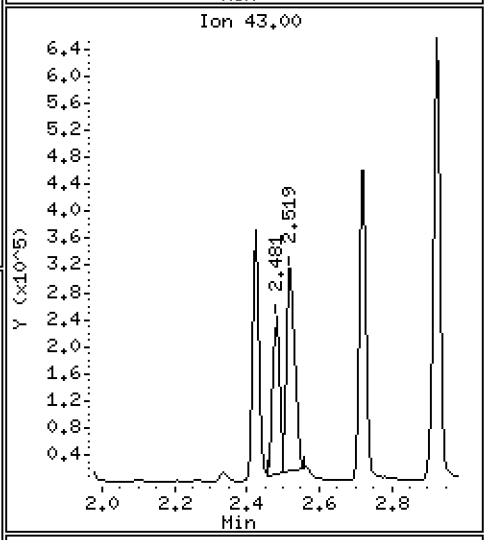
Column phase: DB-VRX Column diameter: 0.25

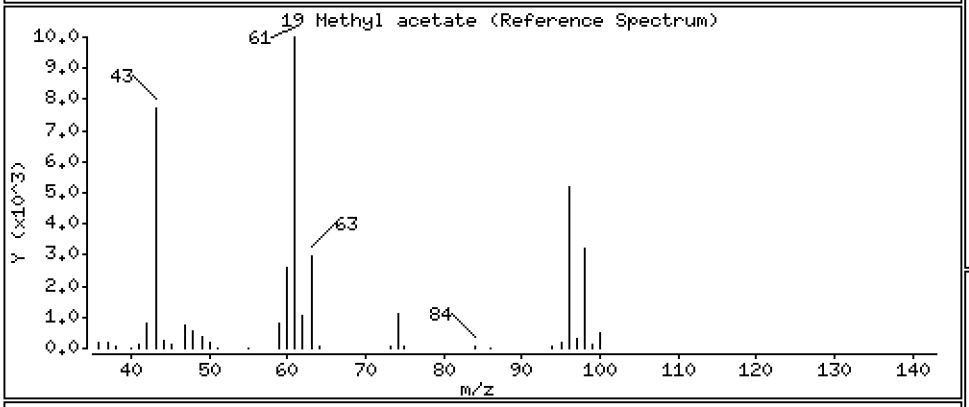
19 Methyl acetate Concentration: 48.4174 ug/L

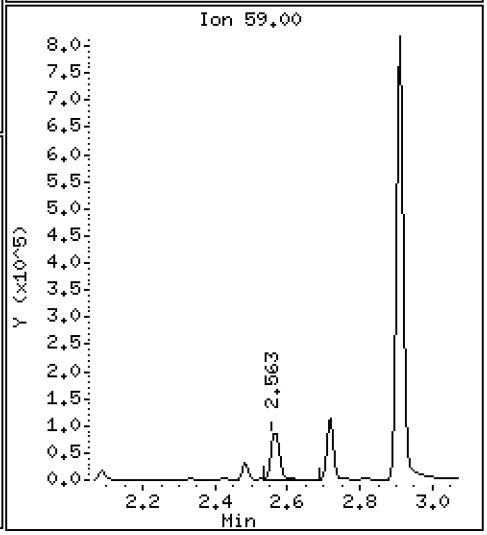


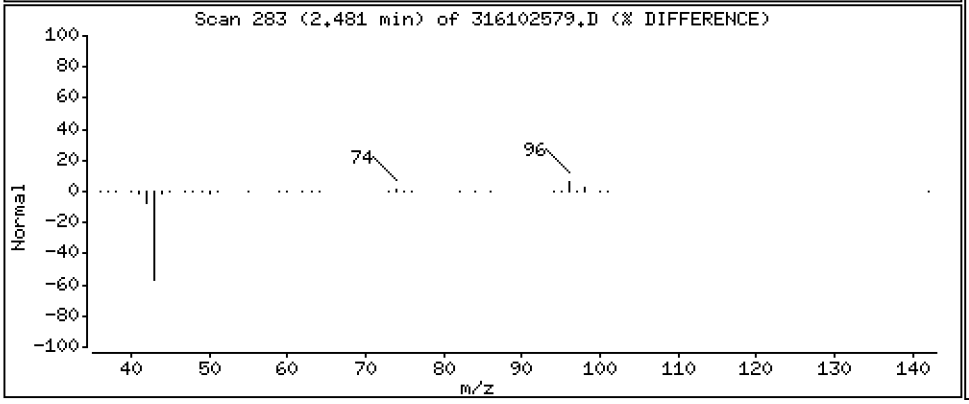












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 32

Date : 26-OCT-2016 08:14

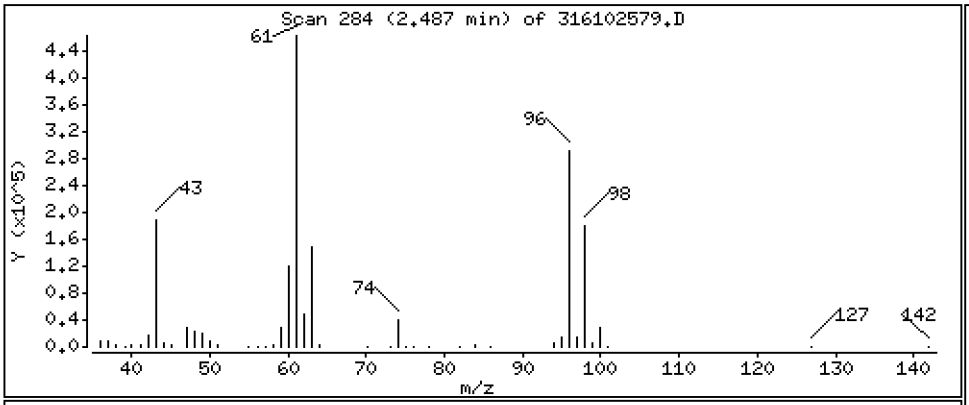
Client ID: Instrument: ms03.i

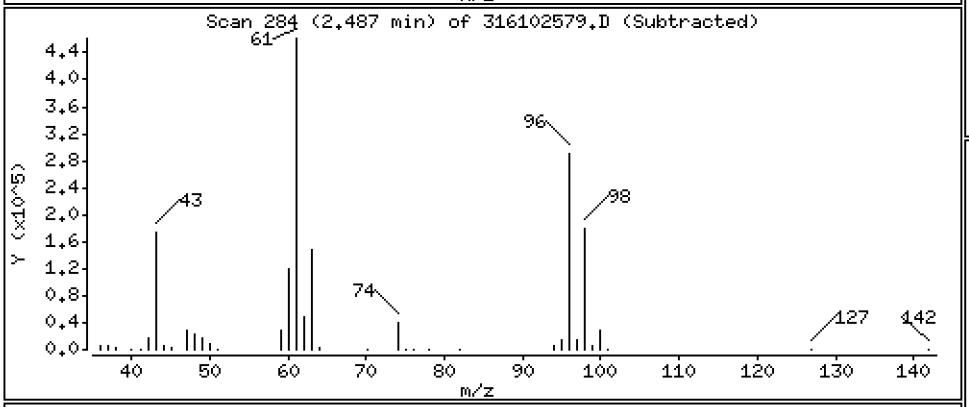
Sample Info: 1801;;1;2;4;;;

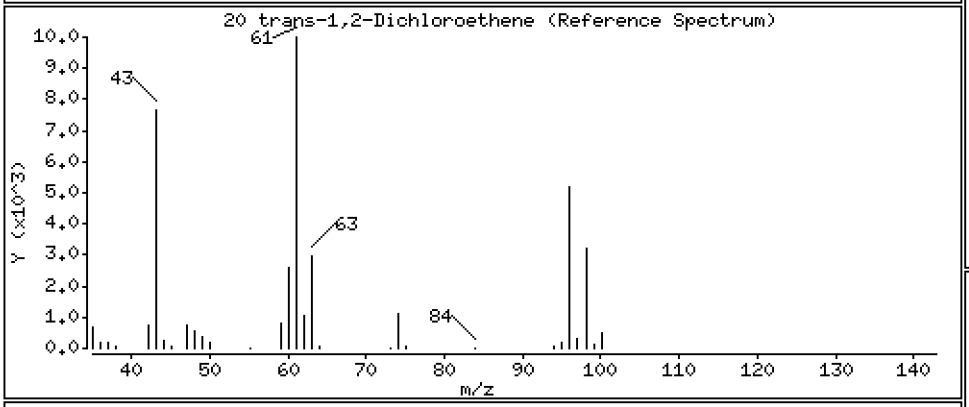
Purge Volume: 5.0 Operator: CJG

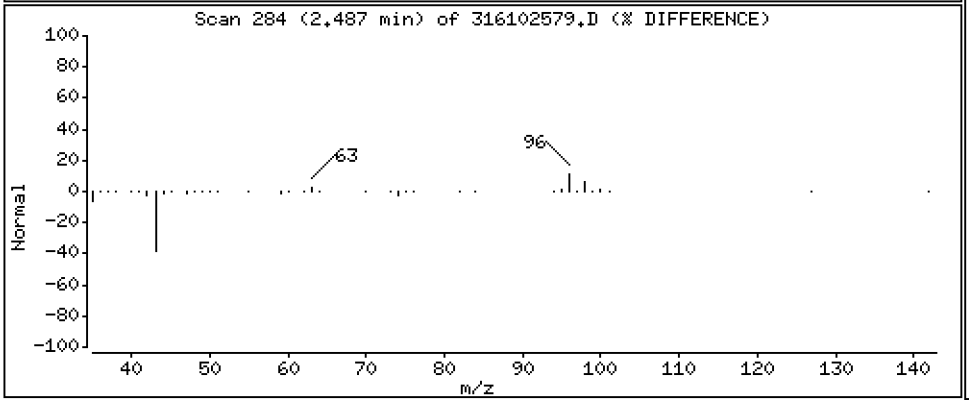
Column phase: DB-VRX Column diameter: 0.25

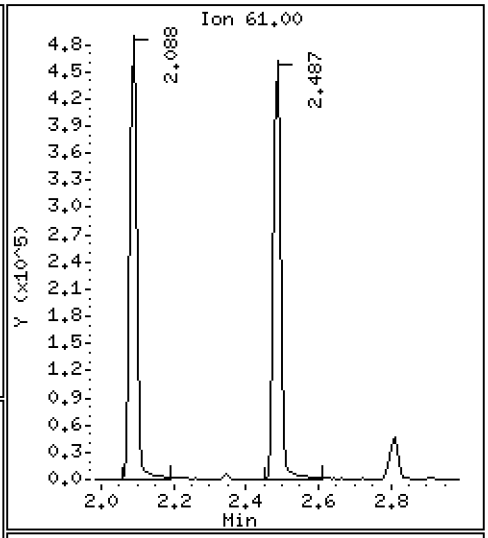
20 trans-1,2-Dichloroethene Concentration: 48.6899 ug/L

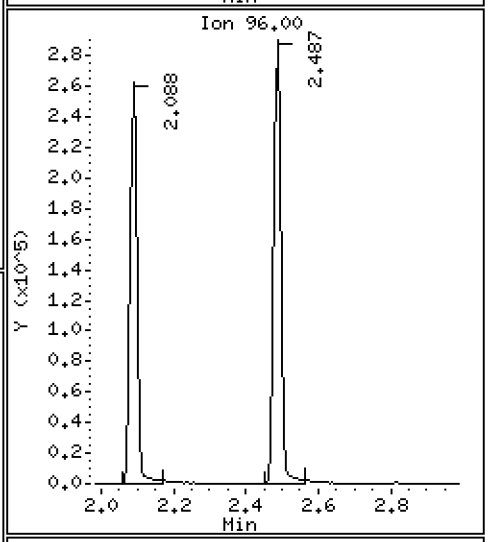


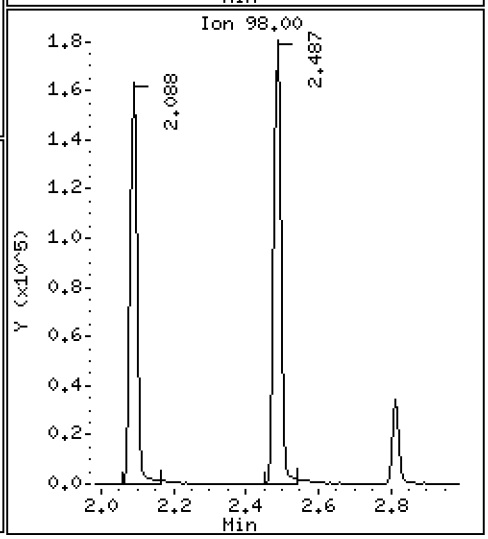












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 33

Date : 26-OCT-2016 08:14

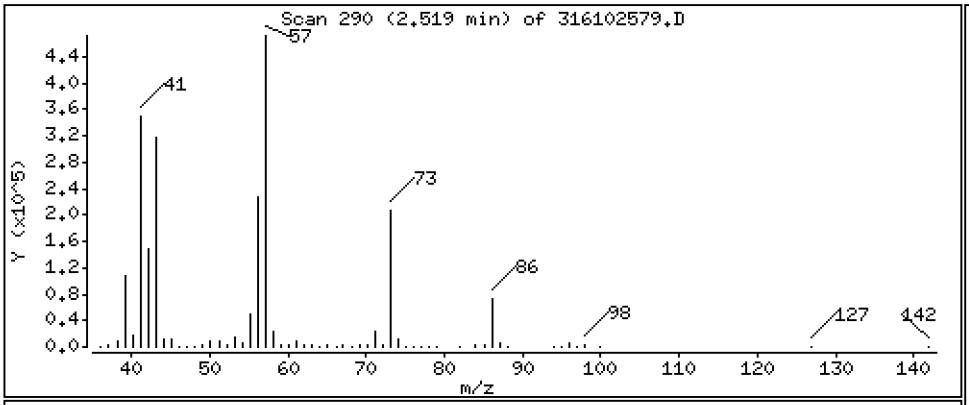
Client ID: Instrument: ms03.i

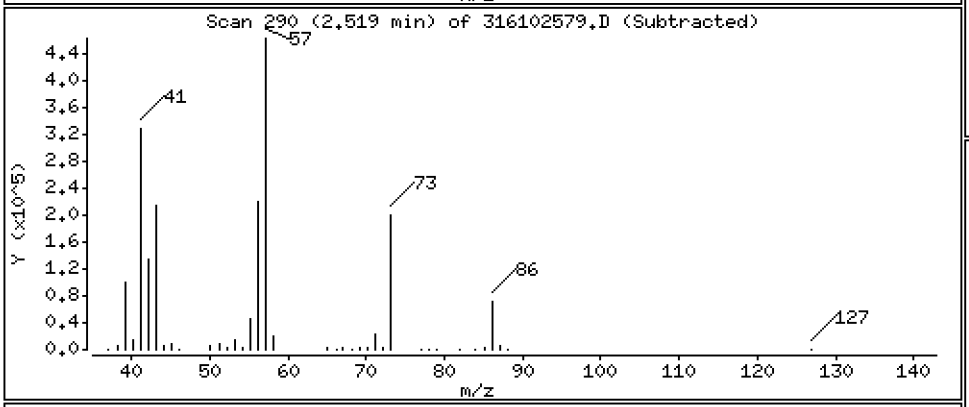
Sample Info: 1801;;1;2;4;;;

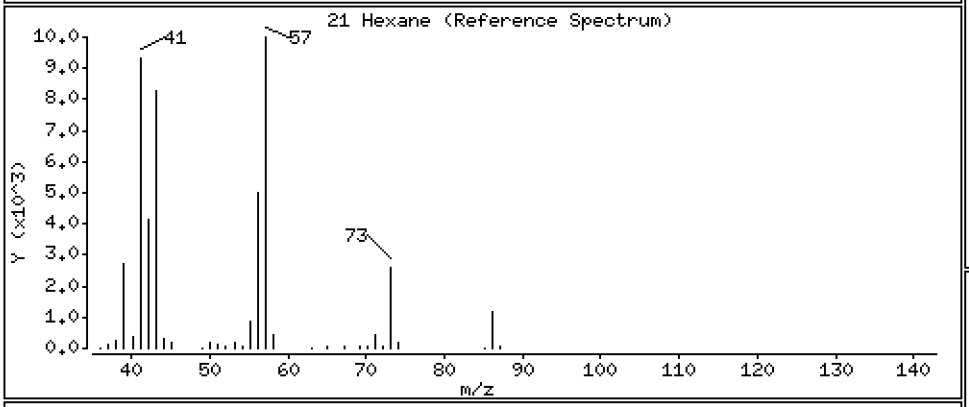
Purge Volume: 5.0 Operator: CJG

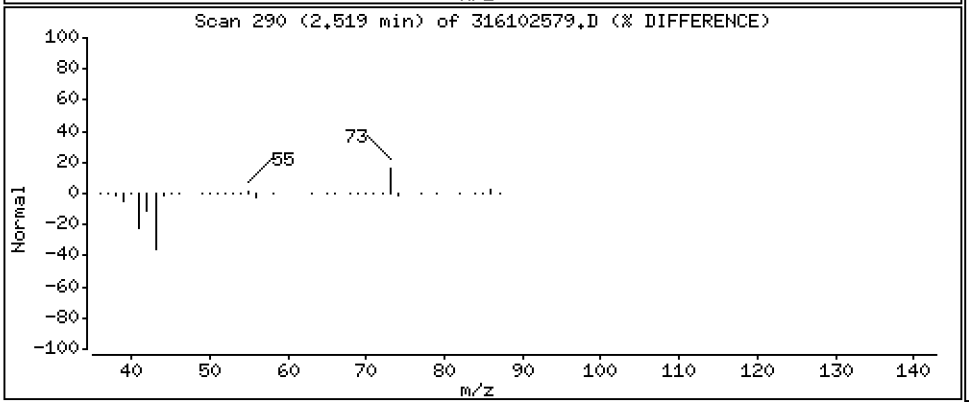
Column phase: DB-VRX Column diameter: 0.25

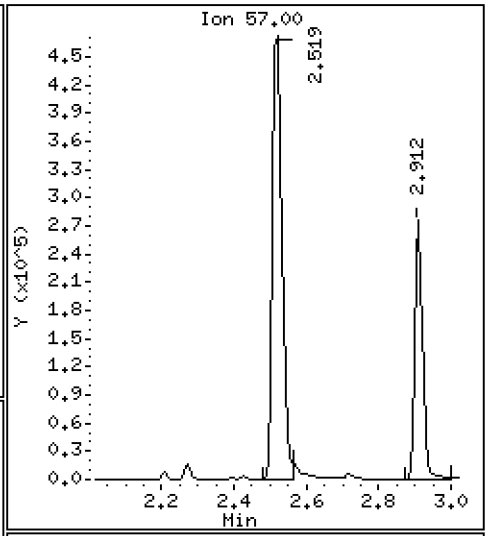
21 Hexane Concentration: 47.7619 ug/L

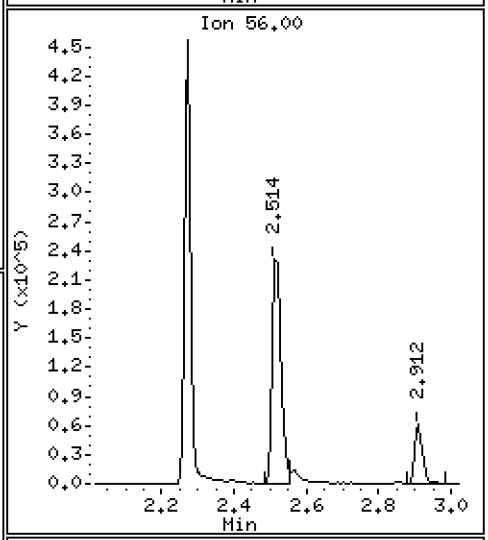


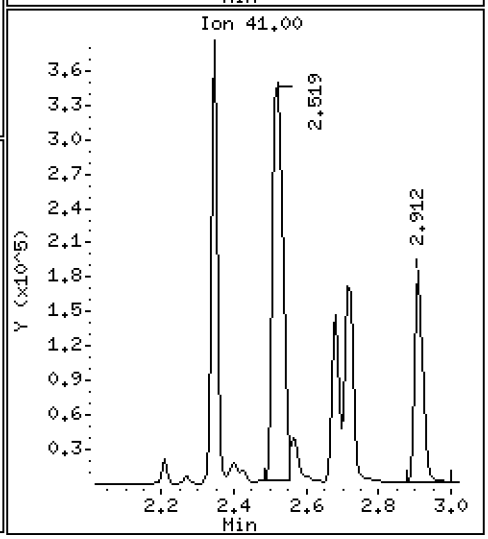












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 34

Date : 26-OCT-2016 08:14

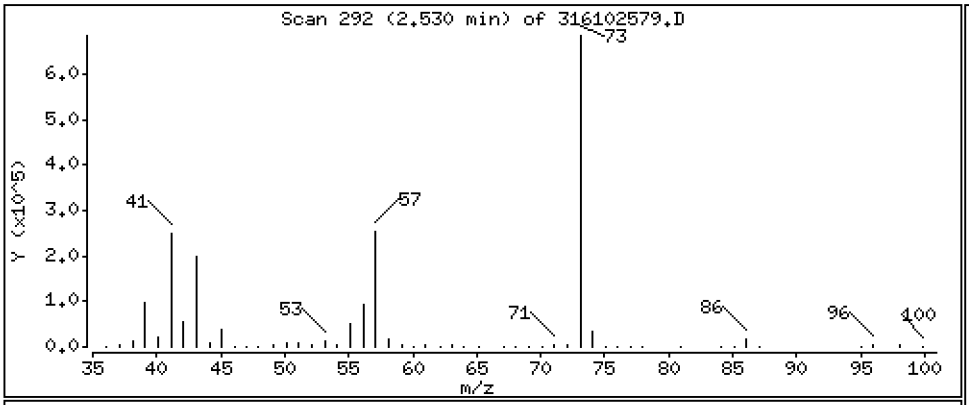
Client ID: Instrument: ms03.i

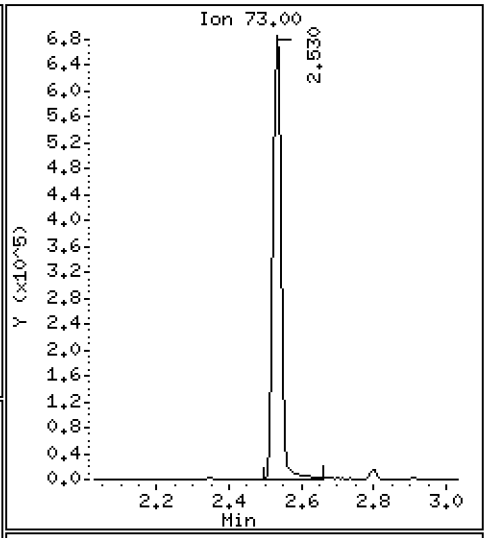
Sample Info: 1801;;1;2;4;;;

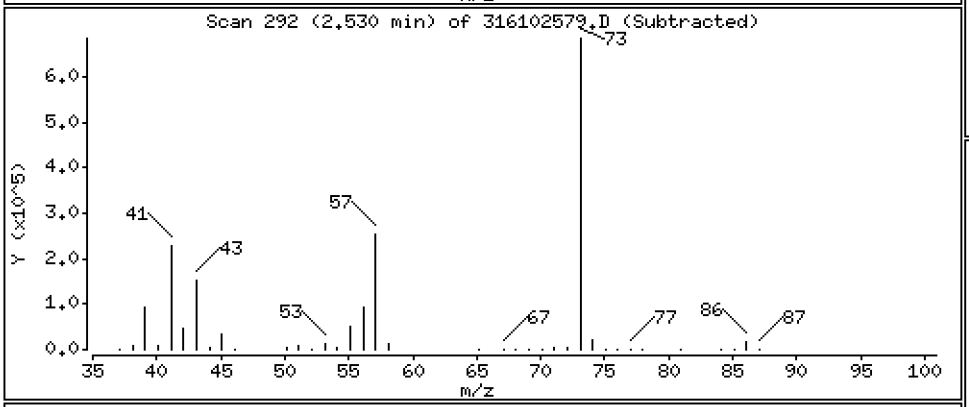
Purge Volume: 5.0 Operator: CJG

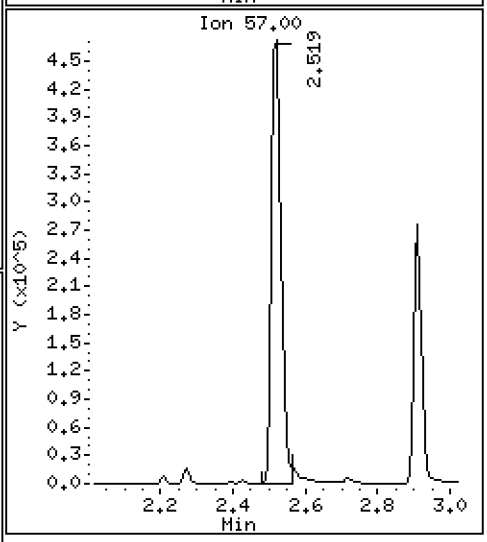
Column phase: DB-VRX Column diameter: 0.25

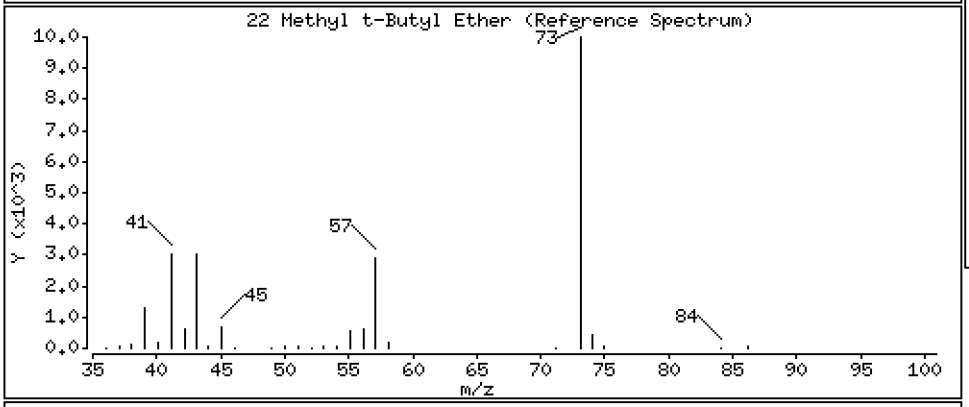
22 Methyl t-Butyl Ether Concentration: 48.2838 ug/L

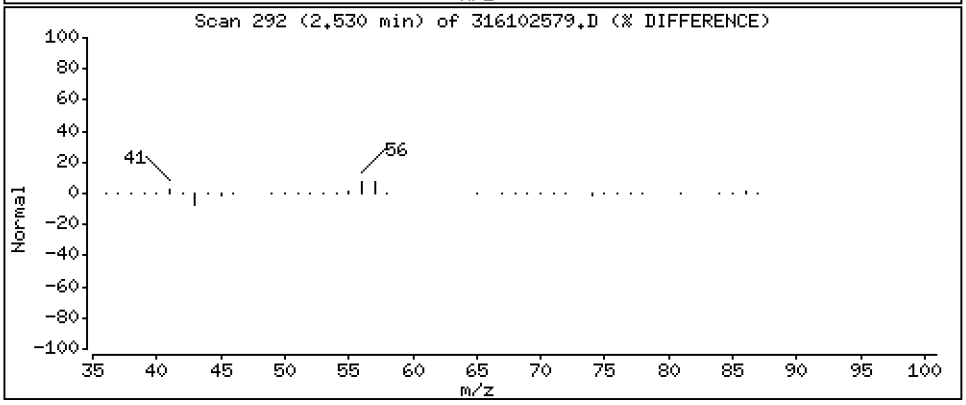












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 35

Date : 26-OCT-2016 08:14

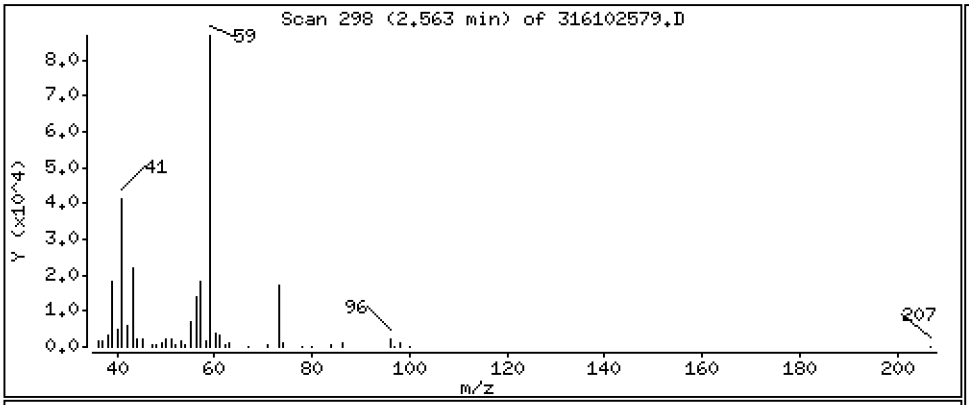
Client ID: Instrument: ms03.i

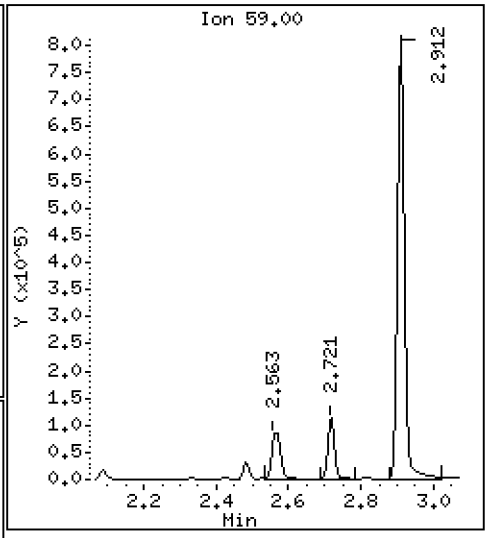
Sample Info: 1801;;1;2;4;;;

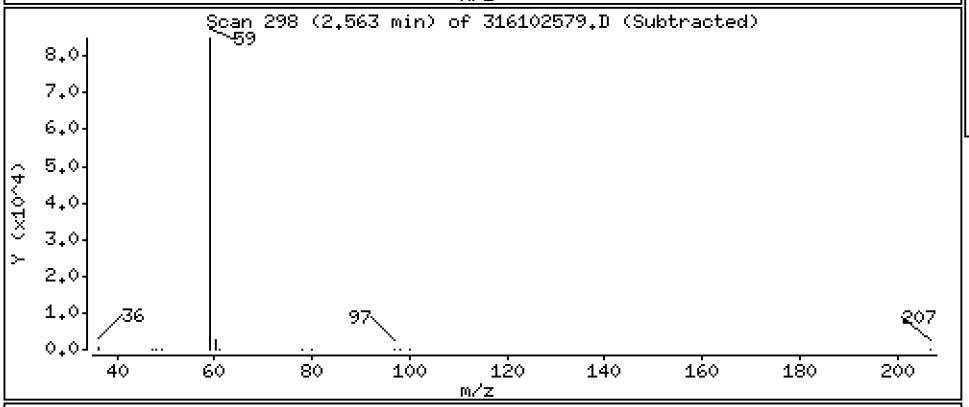
Purge Volume: 5.0 Operator: CJG

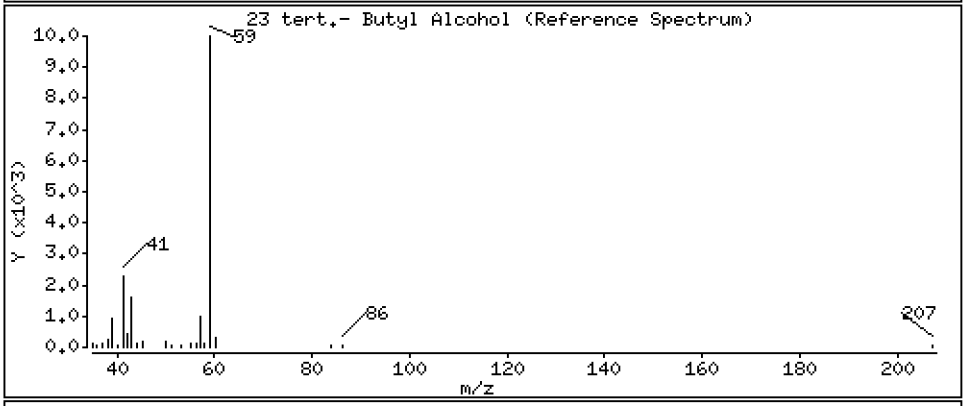
Column phase: DB-VRX Column diameter: 0.25

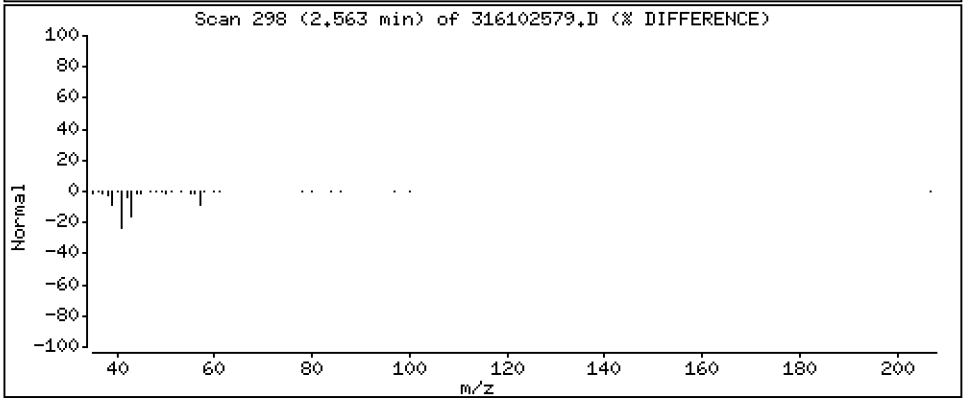
23 tert.- Butyl Alcohol Concentration: 297.713 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 36

Date : 26-OCT-2016 08:14

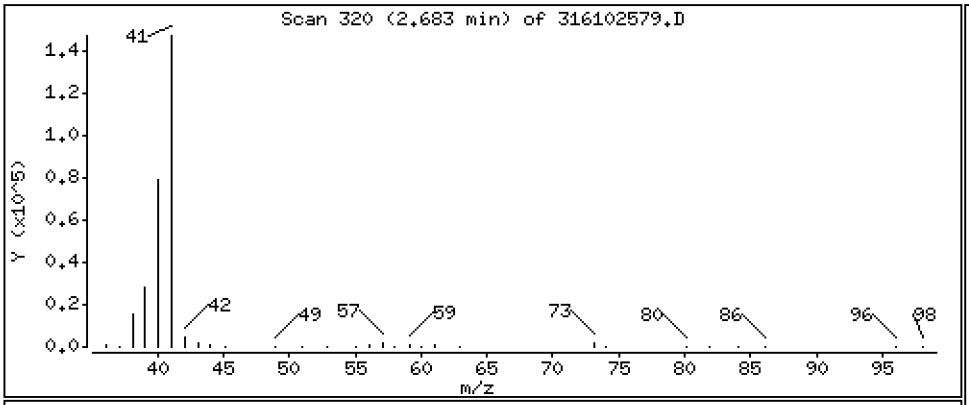
Client ID: Instrument: ms03.i

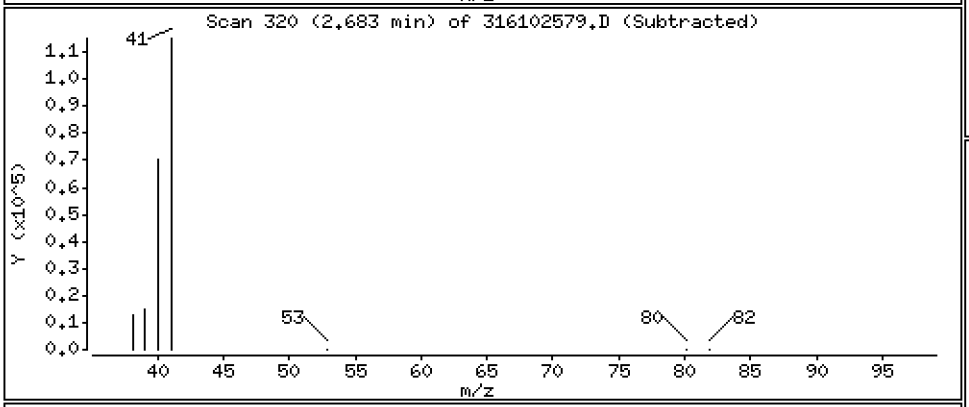
Sample Info: 1801;;1;2;4;;;

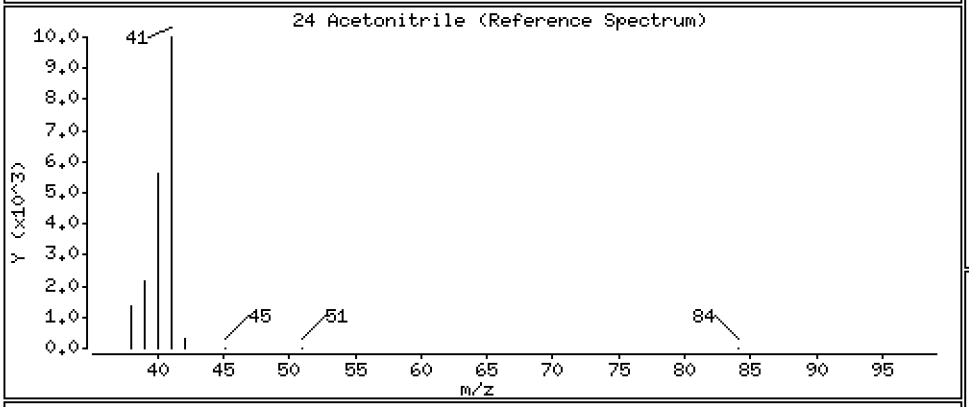
Purge Volume: 5.0 Operator: CJG

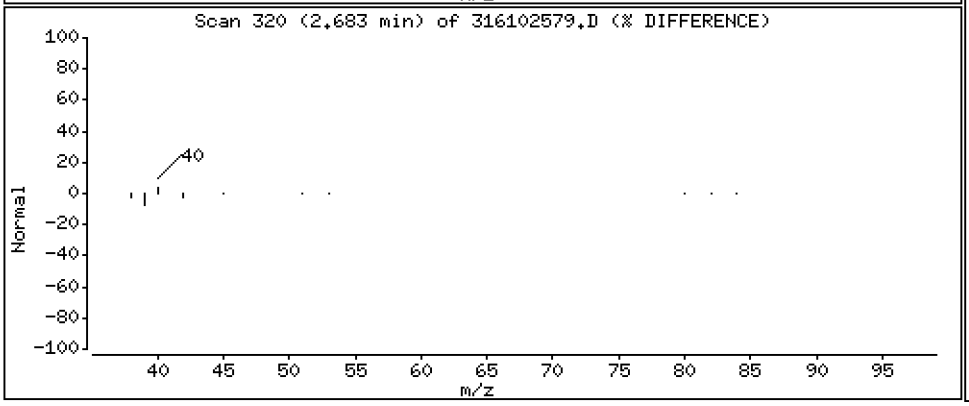
Column phase: DB-VRX Column diameter: 0.25

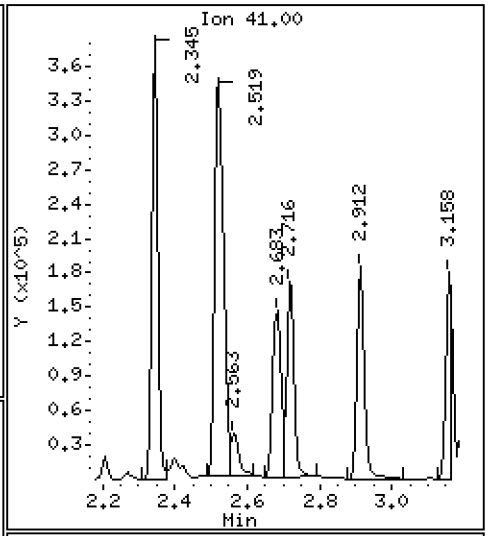
24 Acetonitrile Concentration: 320.519 ug/L

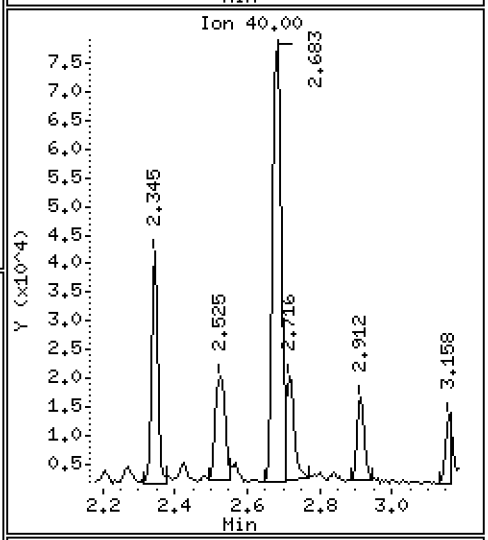


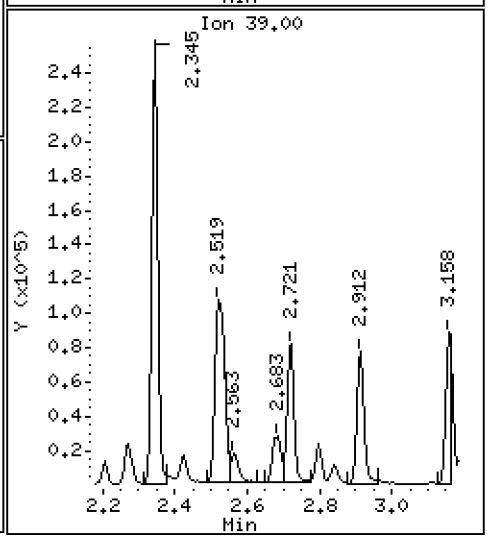












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 37

Date : 26-OCT-2016 08:14

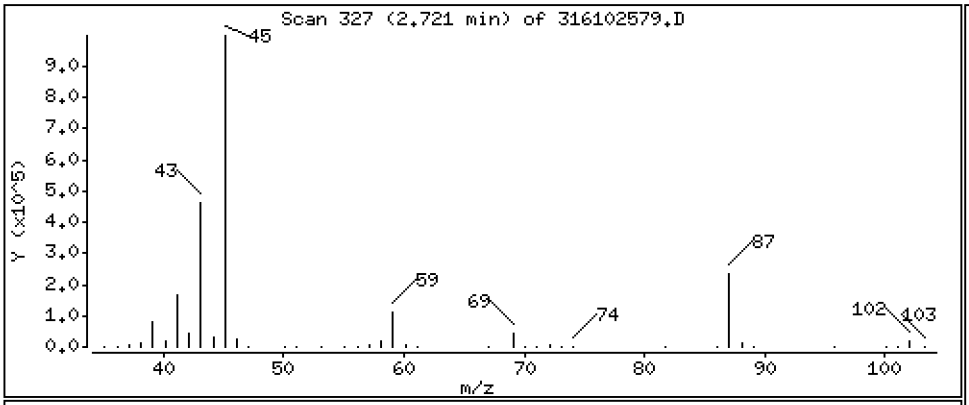
Client ID: Instrument: ms03.i

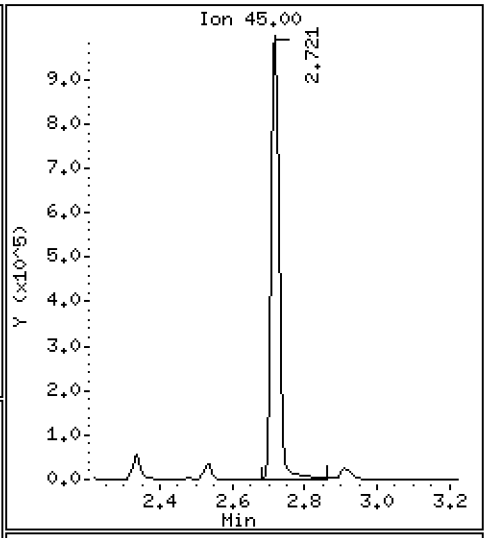
Sample Info: 1801;;1;2;4;;;

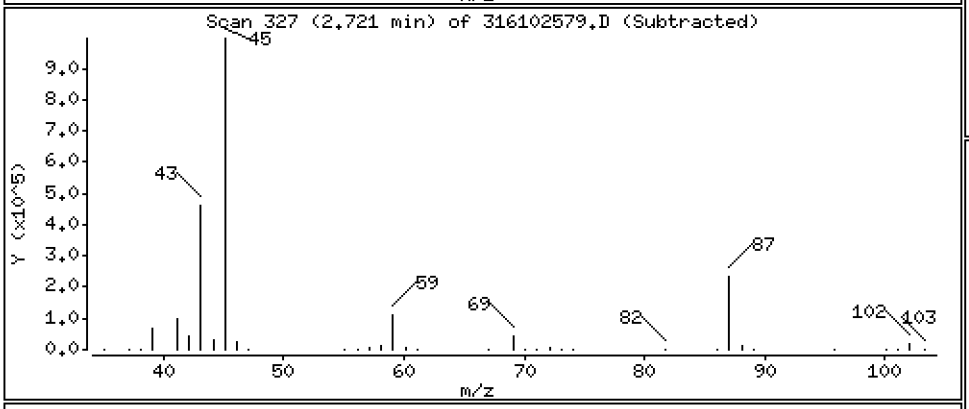
Purge Volume: 5.0 Operator: CJG

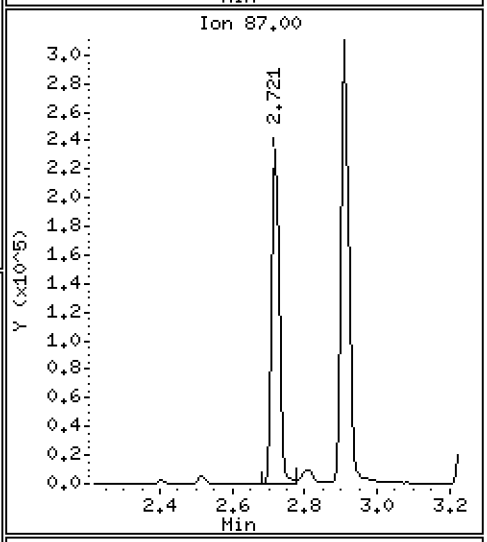
Column phase: DB-VRX Column diameter: 0.25

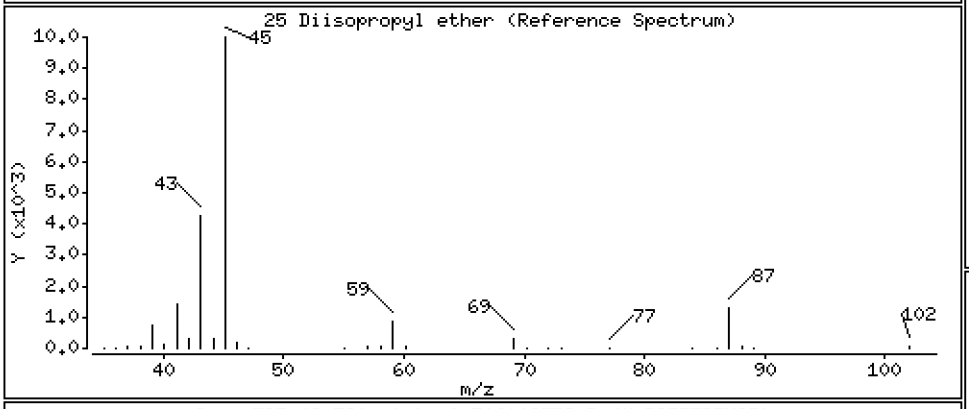
25 Diisopropyl ether Concentration: 52.5969 ug/L

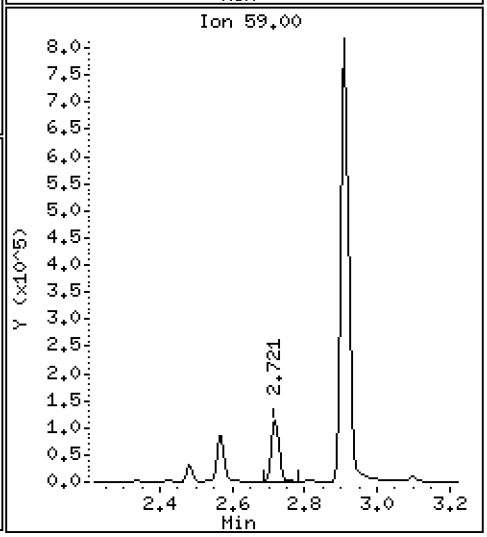


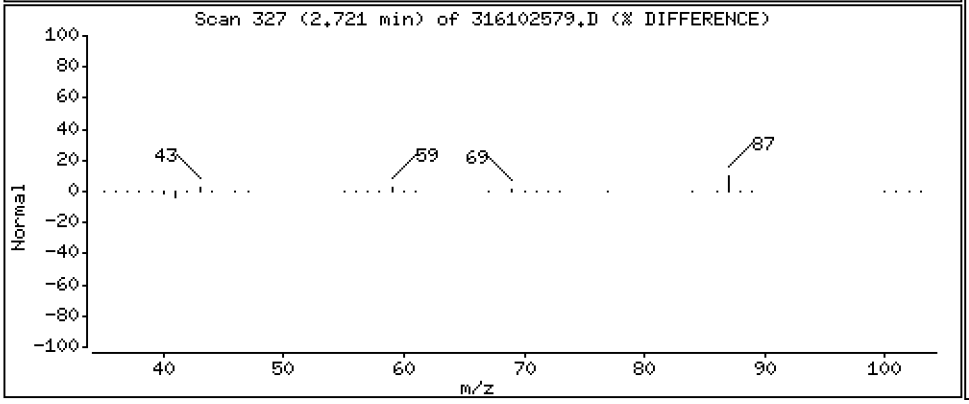












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 38

Date : 26-OCT-2016 08:14

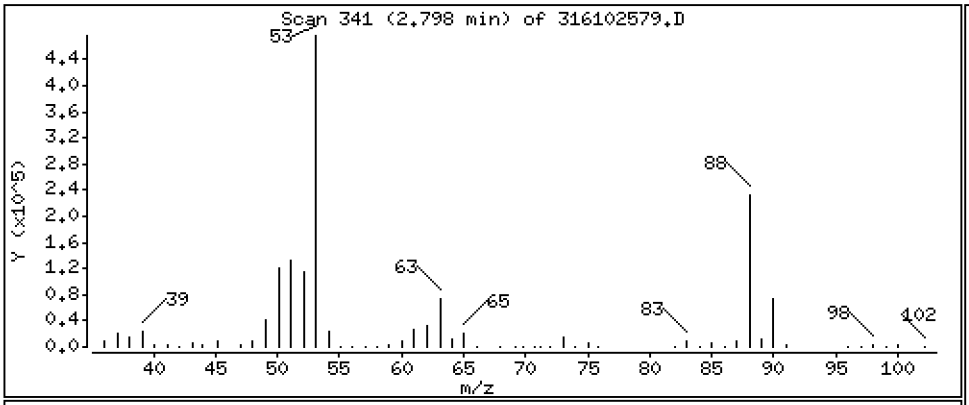
Client ID: Instrument: ms03.i

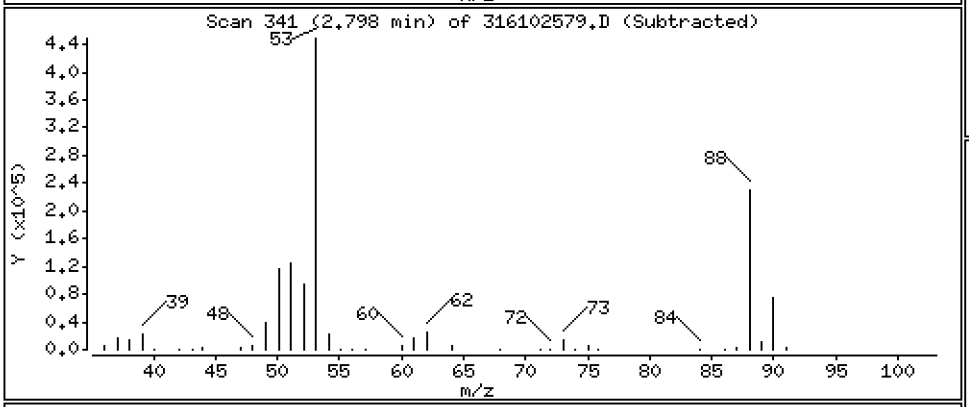
Sample Info: 1801;;1;2;4;;;

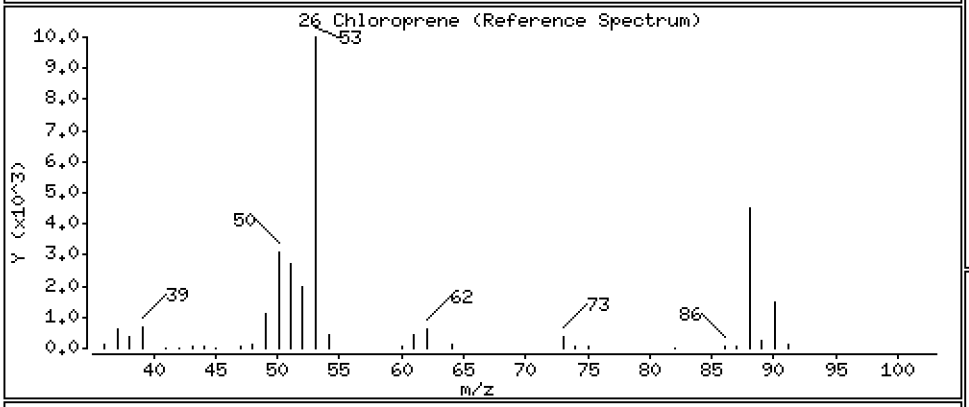
Purge Volume: 5.0 Operator: CJG

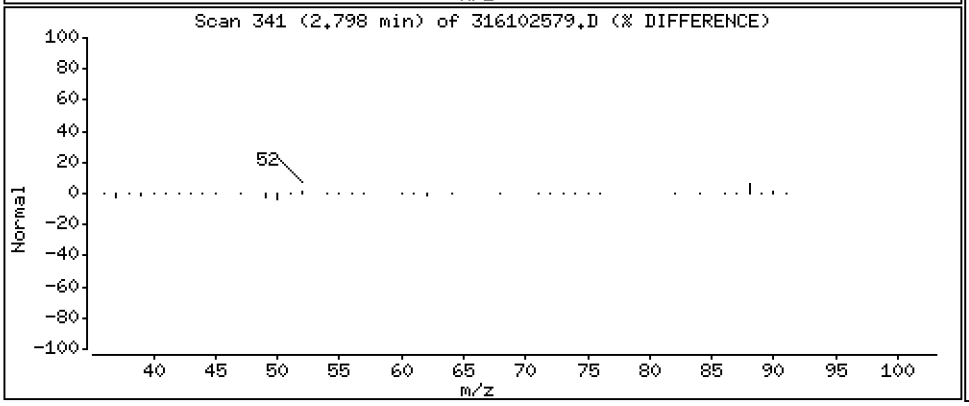
Column phase: DB-VRX Column diameter: 0.25

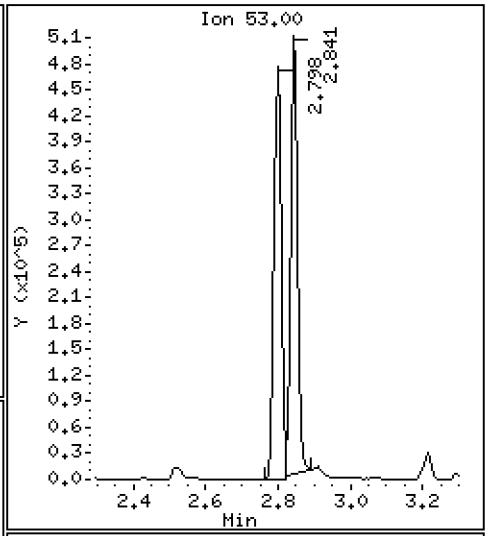
26 Chloroprene Concentration: 51.3417 ug/L

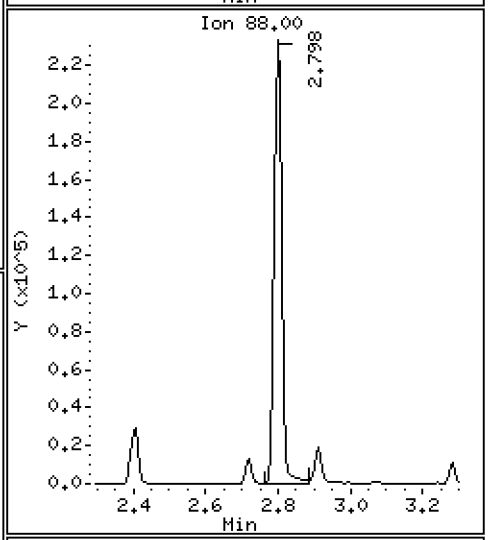


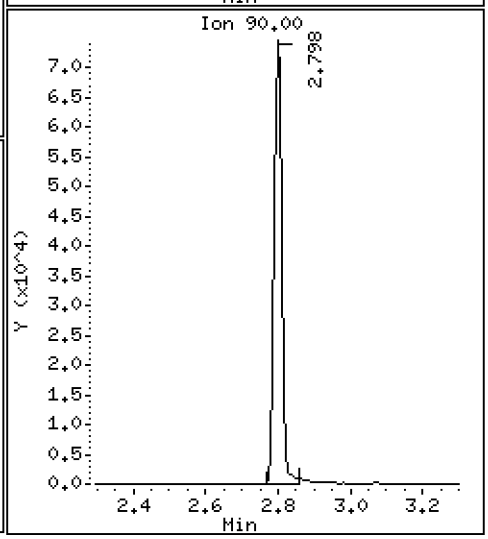












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 39

Date : 26-OCT-2016 08:14

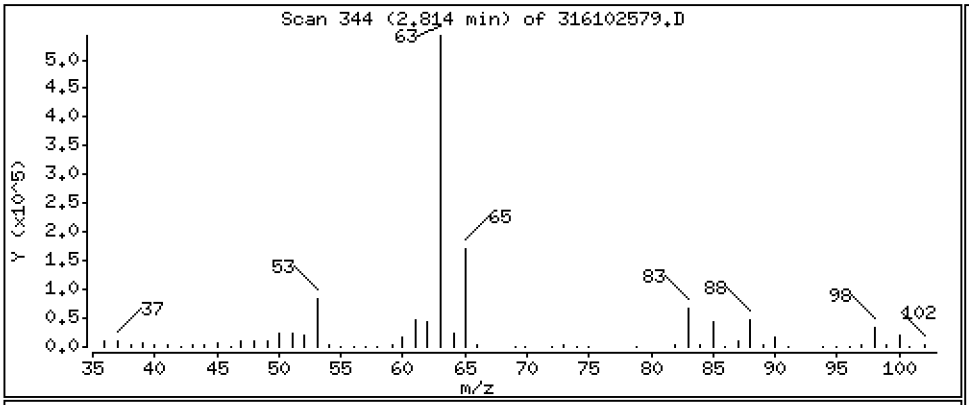
Client ID: Instrument: ms03.i

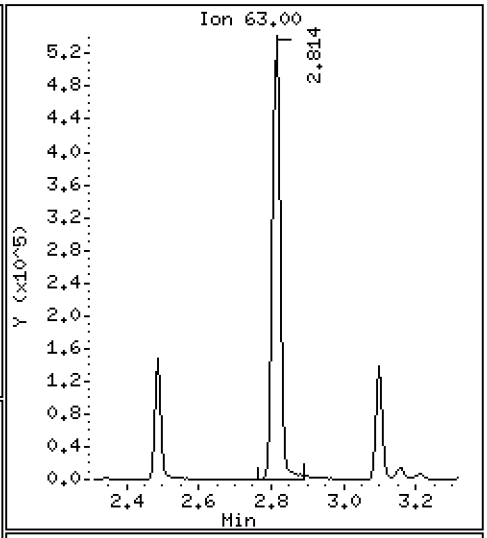
Sample Info: 1801;;1;2;4;;;

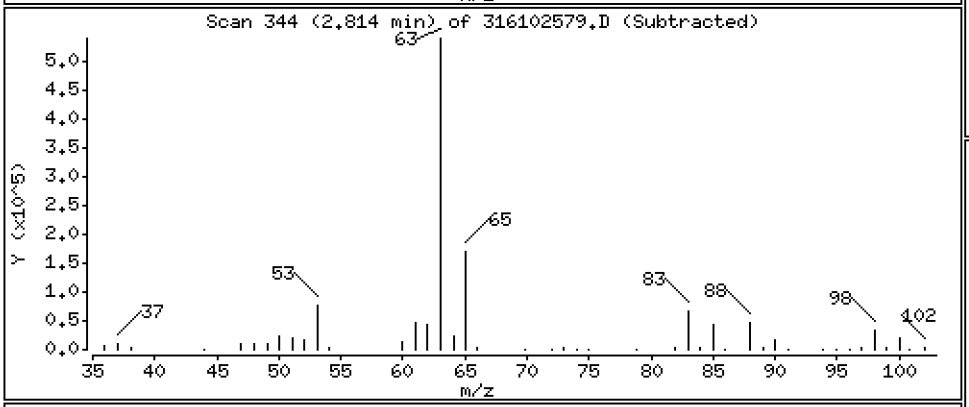
Purge Volume: 5.0 Operator: CJG

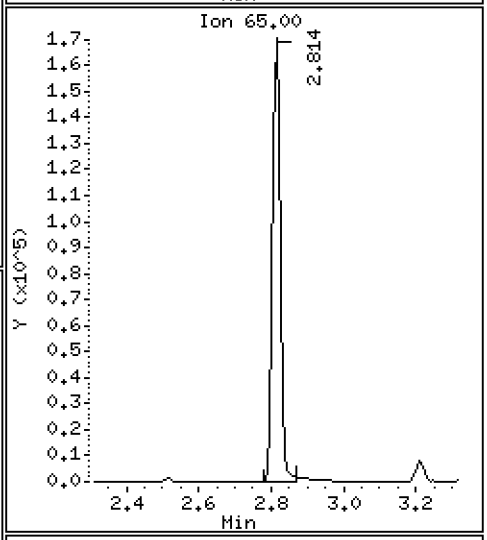
Column phase: DB-VRX Column diameter: 0.25

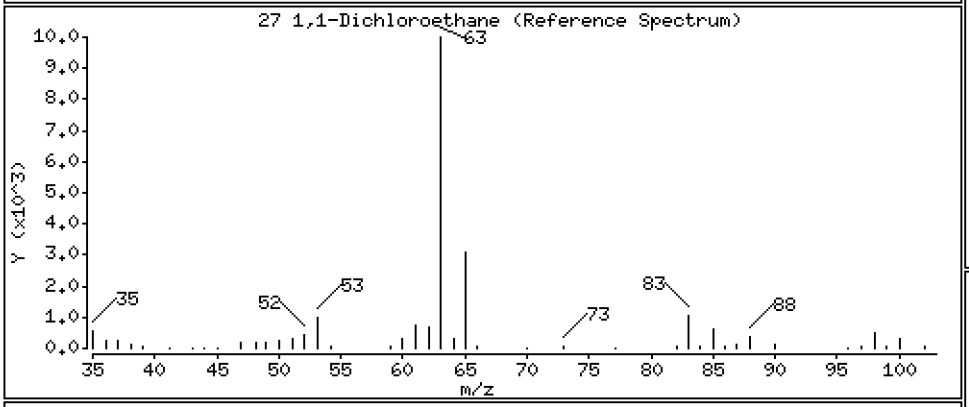
27 1,1-Dichloroethane Concentration: 47.8175 ug/L

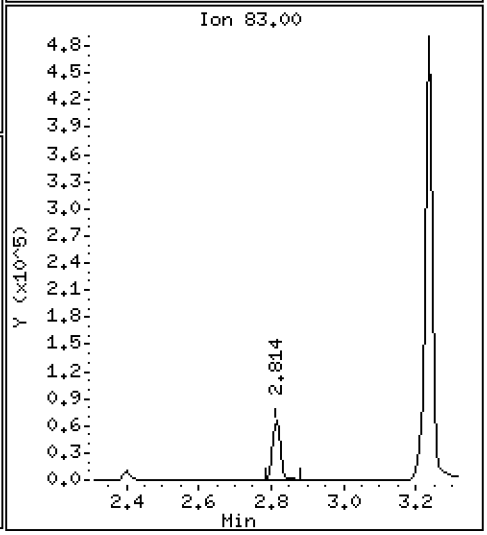


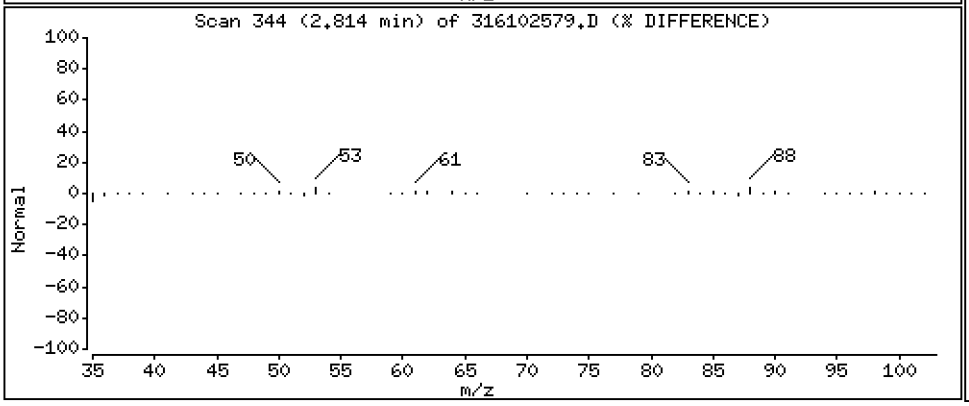












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 40

Date : 26-OCT-2016 08:14

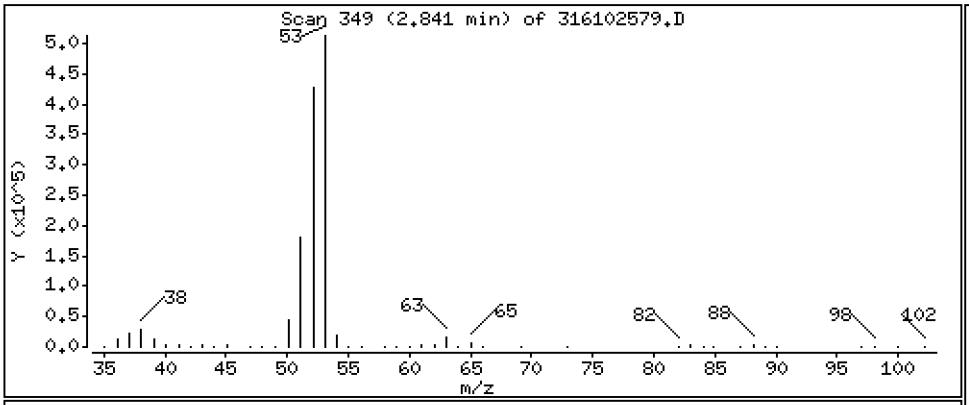
Client ID: Instrument: ms03.i

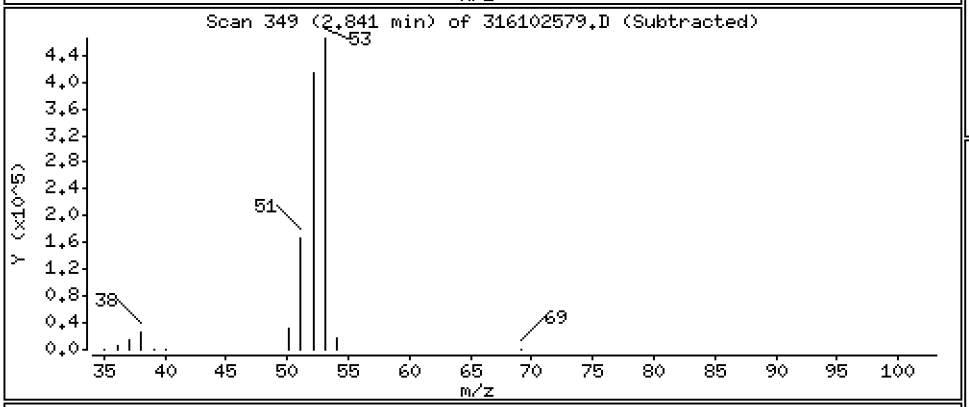
Sample Info: 1801;;1;2;4;;;

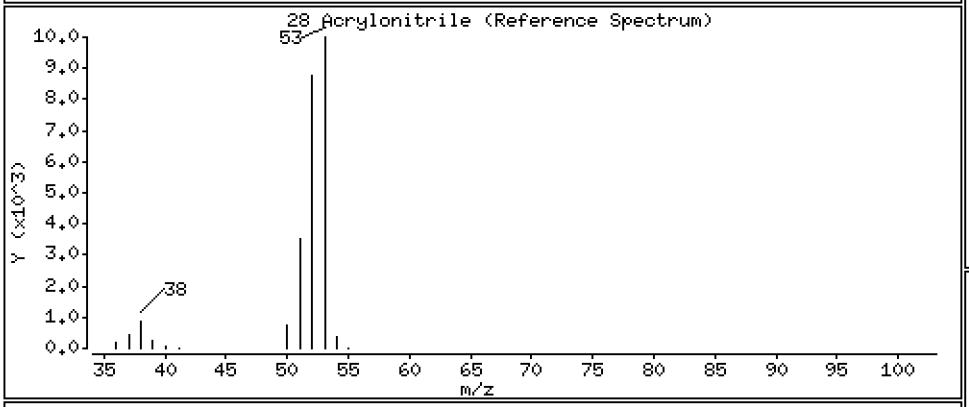
Purge Volume: 5.0 Operator: CJG

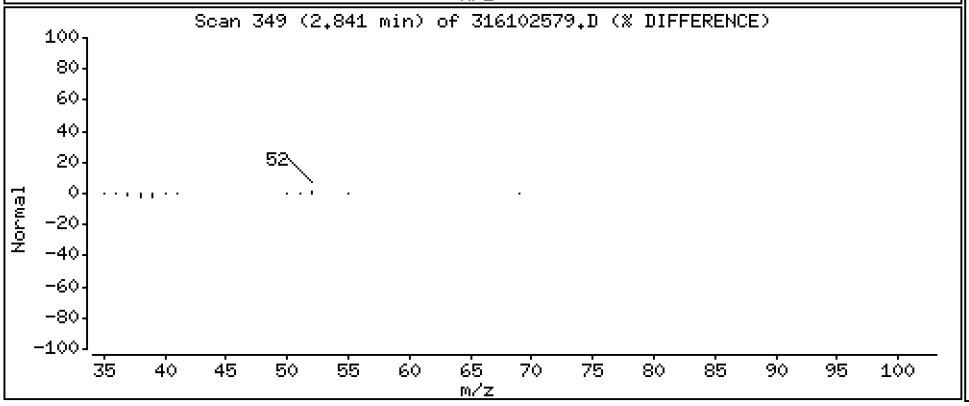
Column phase: DB-VRX Column diameter: 0.25

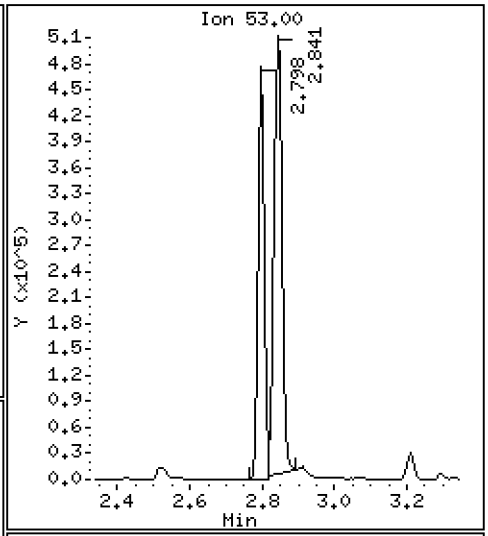
28 Acrylonitrile Concentration: 253.197 ug/L

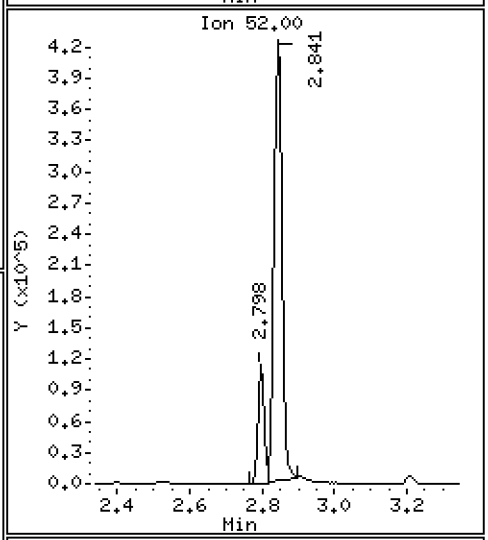


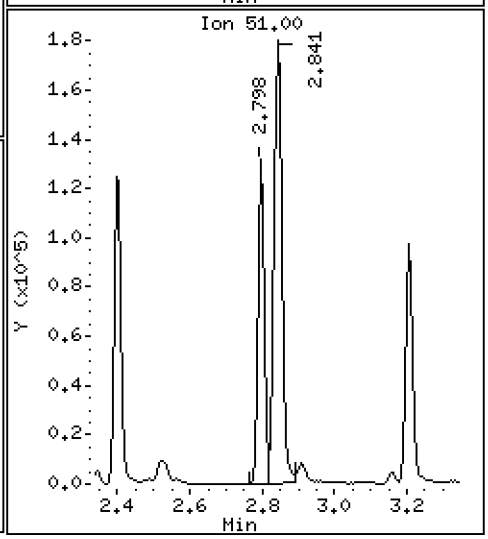












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 41

Date : 26-OCT-2016 08:14

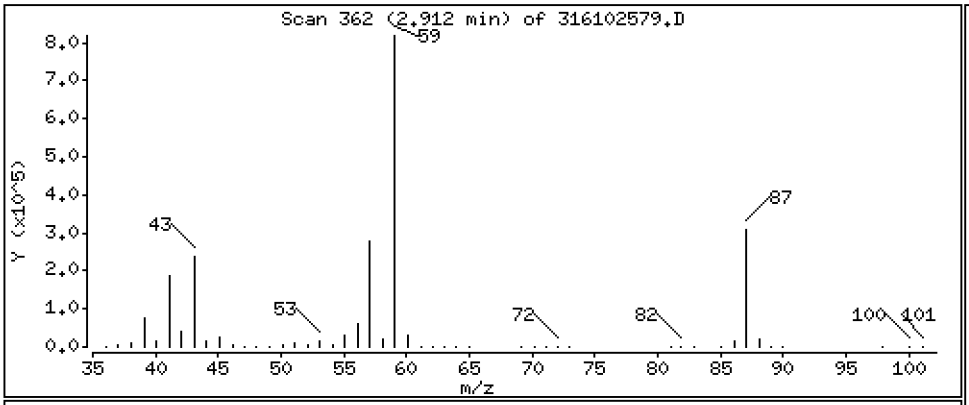
Client ID: Instrument: ms03.i

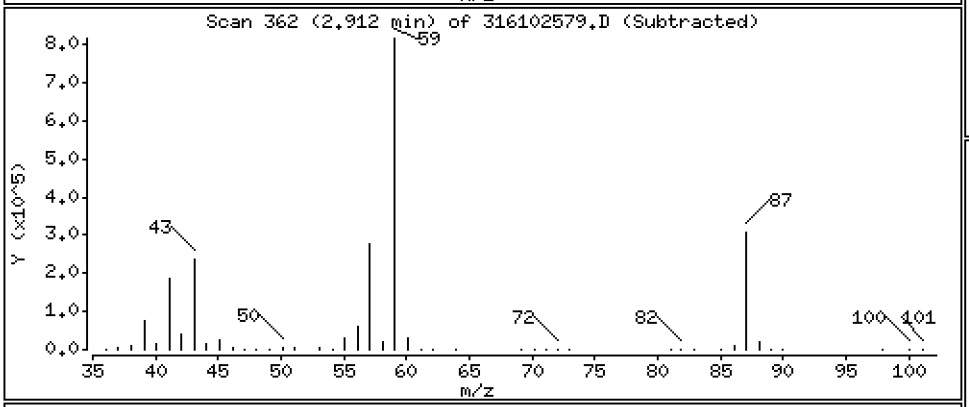
Sample Info: 1801;;1;2;4;;;

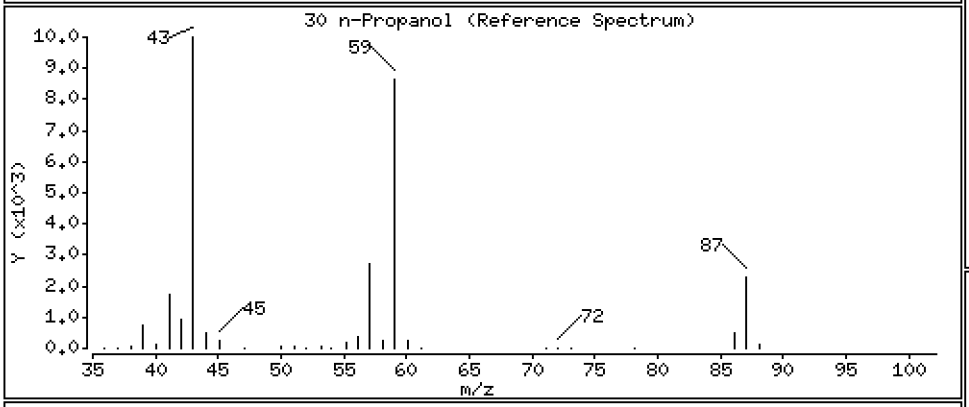
Purge Volume: 5.0 Operator: CJG

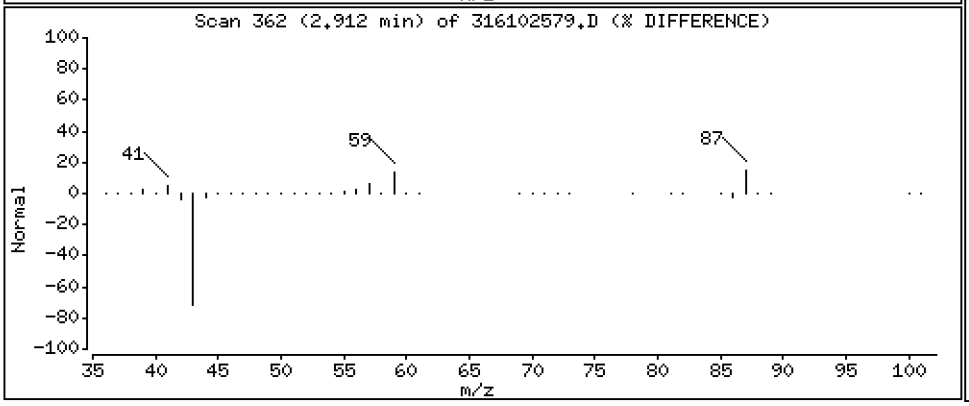
Column phase: DB-VRX Column diameter: 0.25

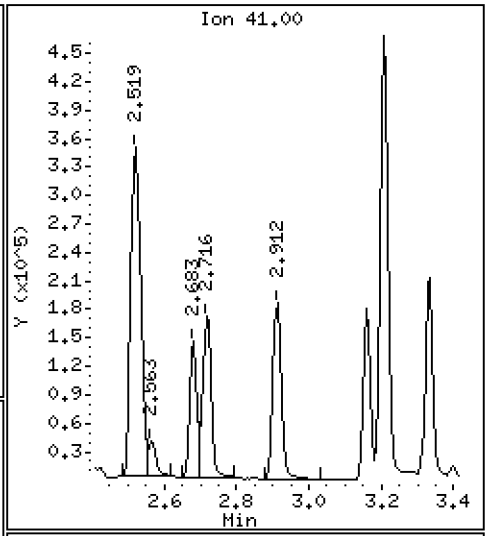
30 n-Propanol Concentration: 583.775 ug/L

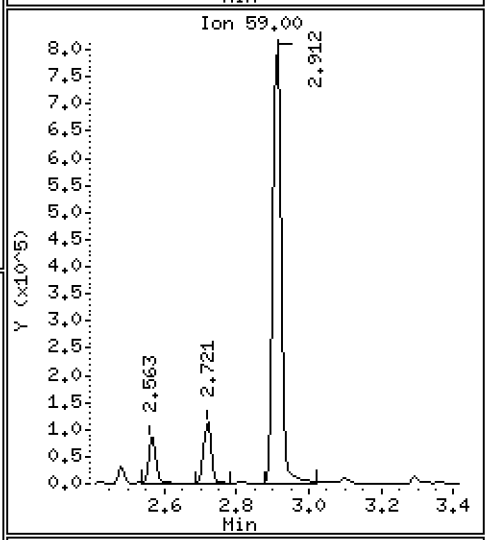


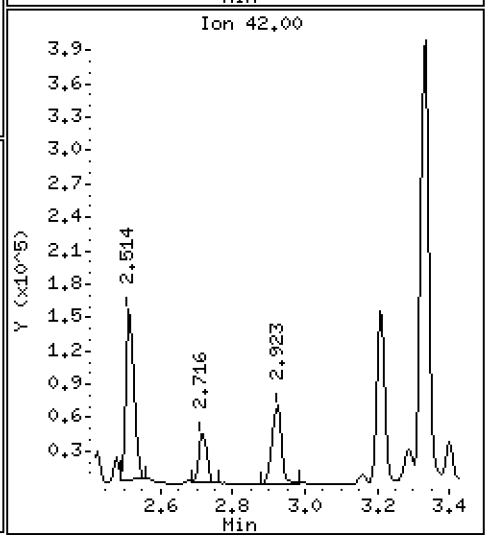












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 42

Date : 26-OCT-2016 08:14

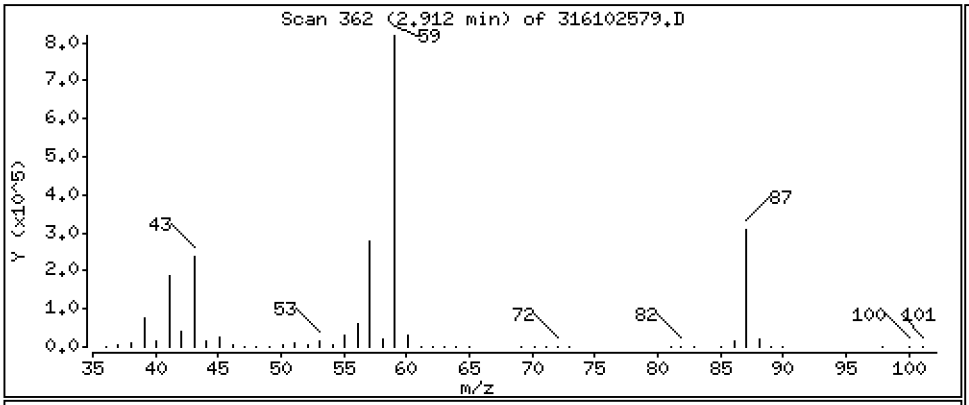
Client ID: Instrument: ms03.i

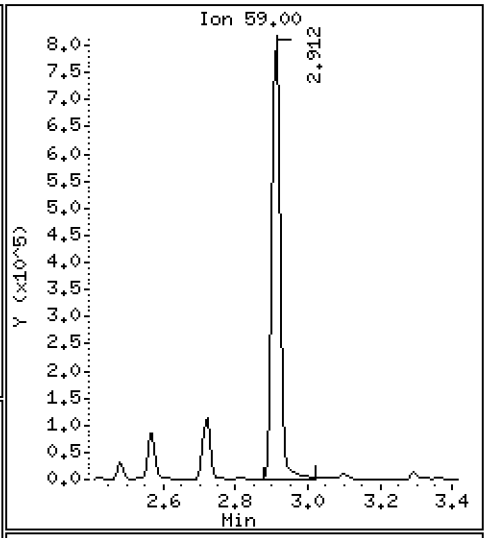
Sample Info: 1801;;1;2;4;;;

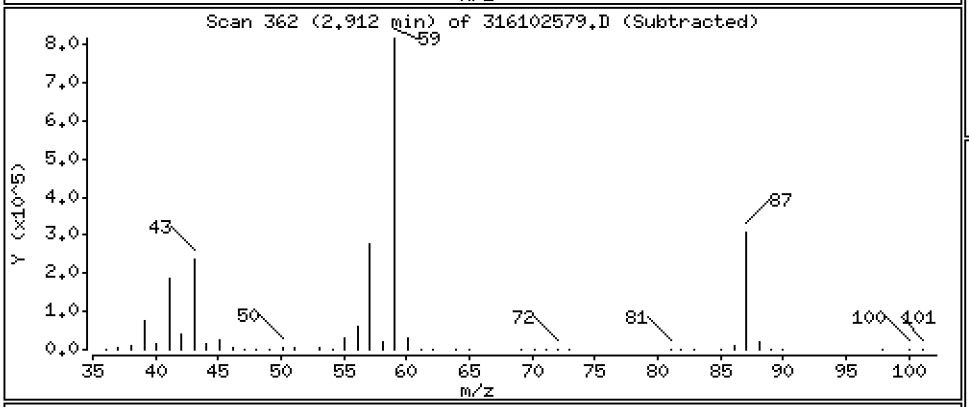
Purge Volume: 5.0 Operator: CJG

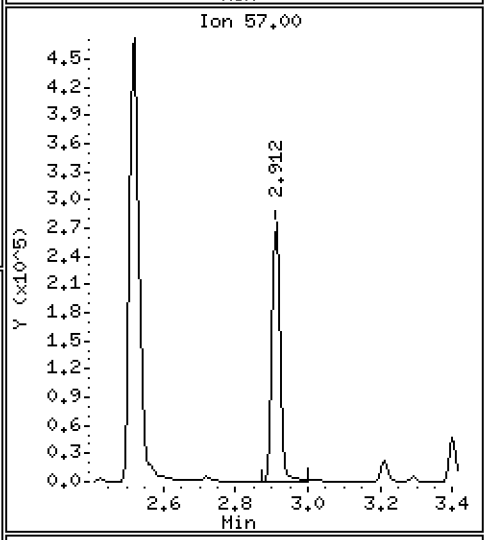
Column phase: DB-VRX Column diameter: 0.25

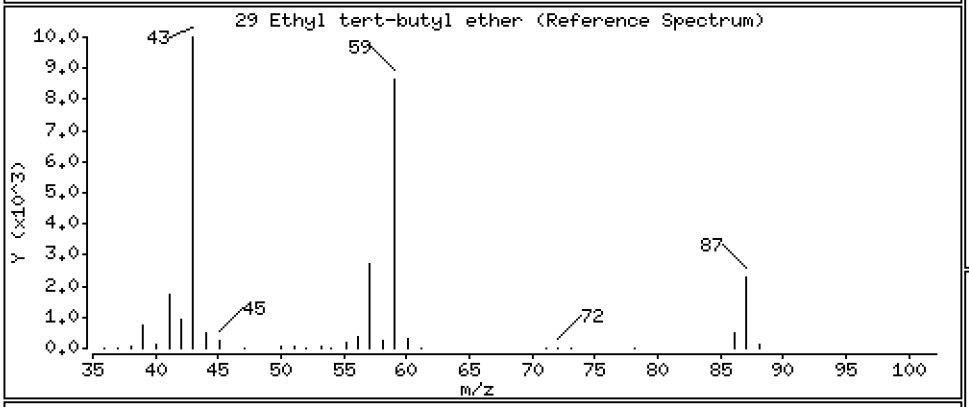
29 Ethyl tert-butyl ether Concentration: 51.1777 ug/L

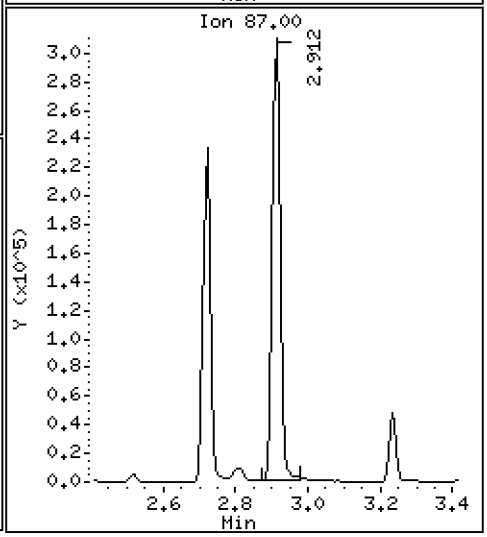


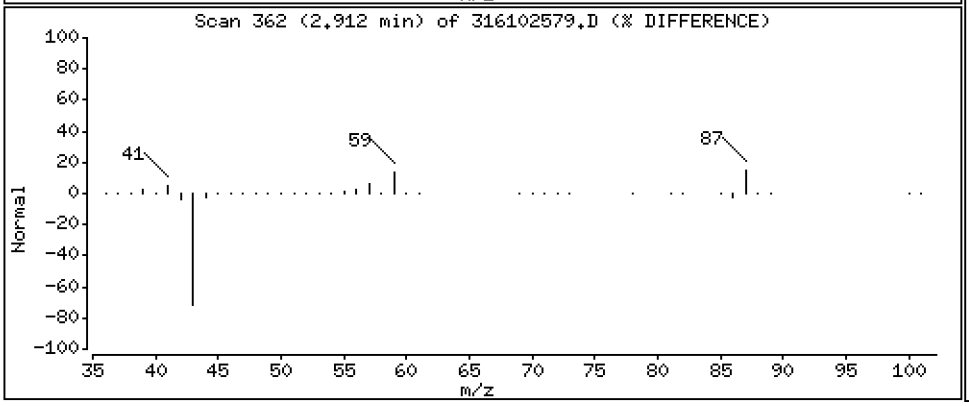












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 43

Date : 26-OCT-2016 08:14

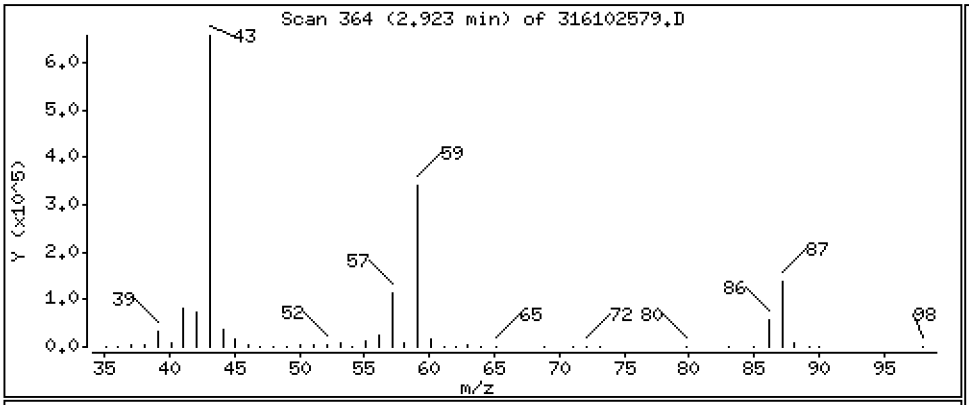
Client ID: Instrument: ms03.i

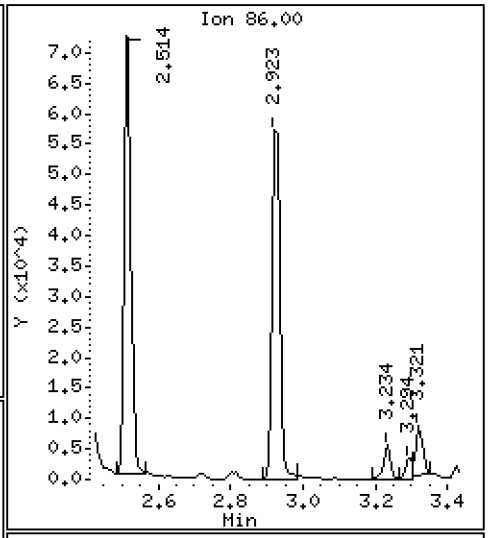
Sample Info: 1801;;1;2;4;;;

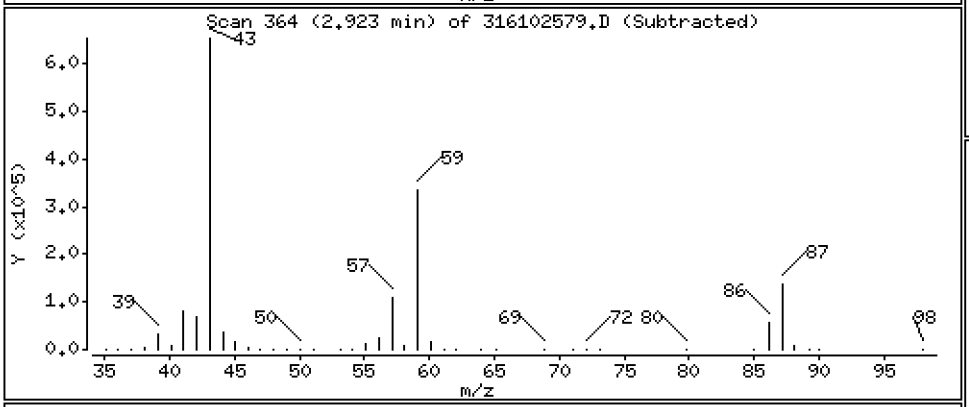
Purge Volume: 5.0 Operator: CJG

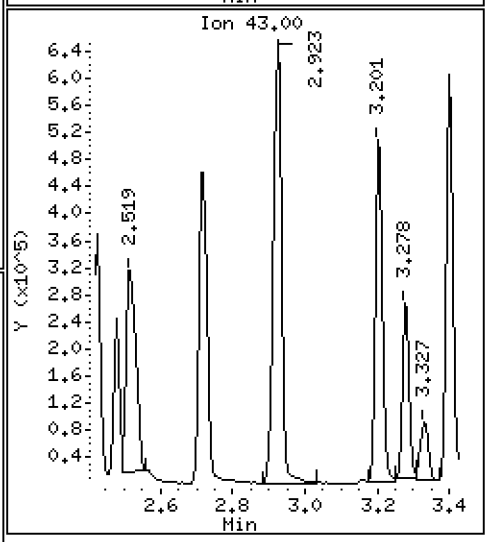
Column phase: DB-VRX Column diameter: 0.25

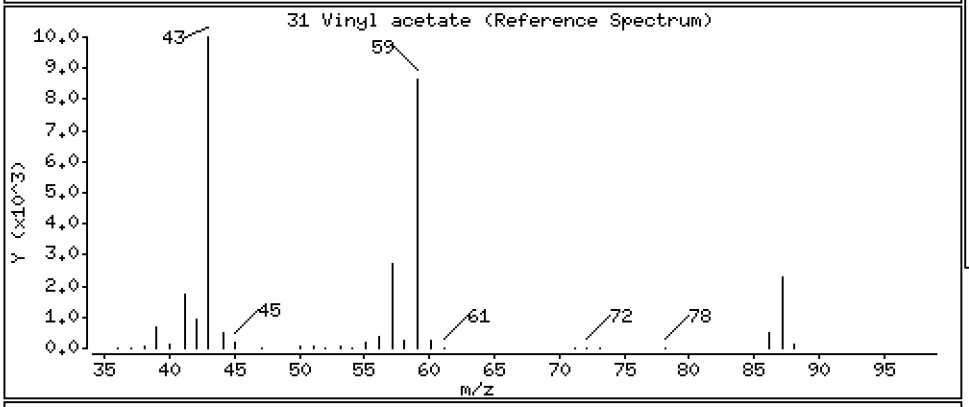
31 Vinyl acetate Concentration: 45.5708 ug/L

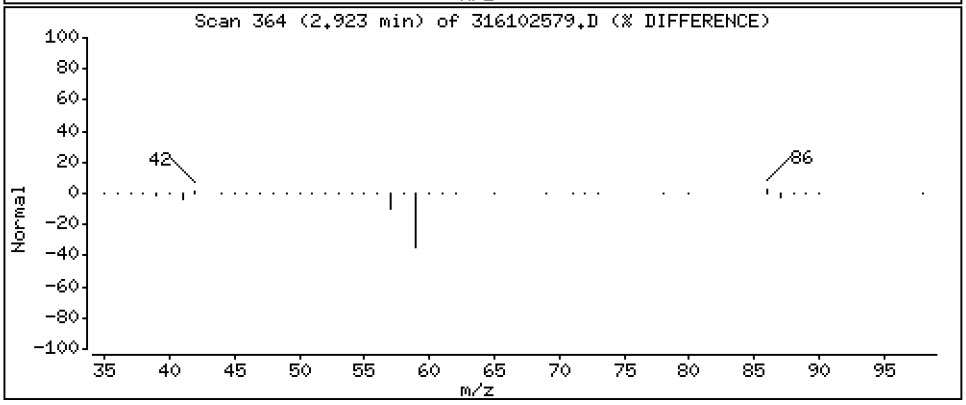












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 44

Date : 26-OCT-2016 08:14

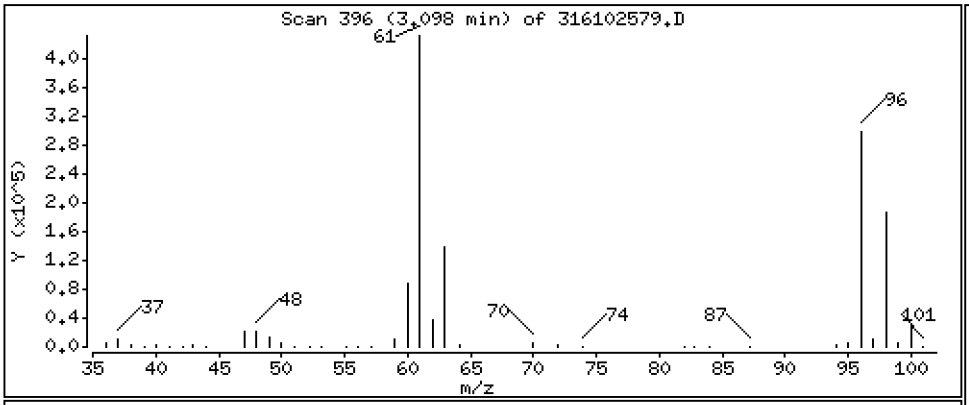
Client ID: Instrument: ms03.i

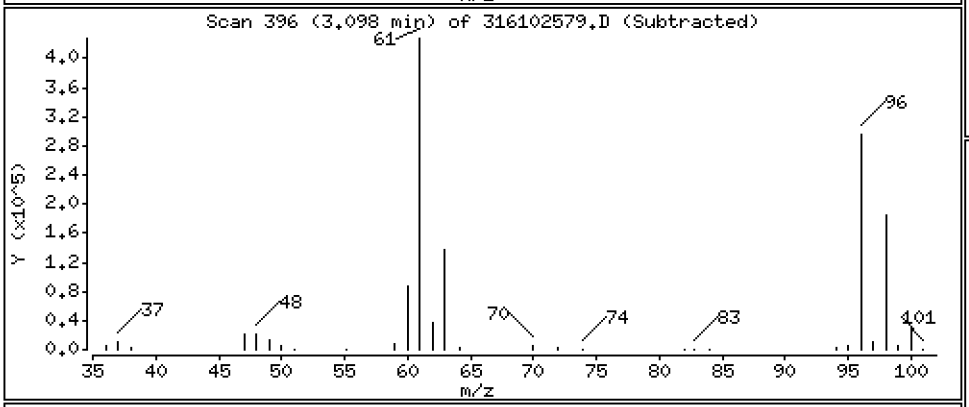
Sample Info: 1801;;1;2;4;;;

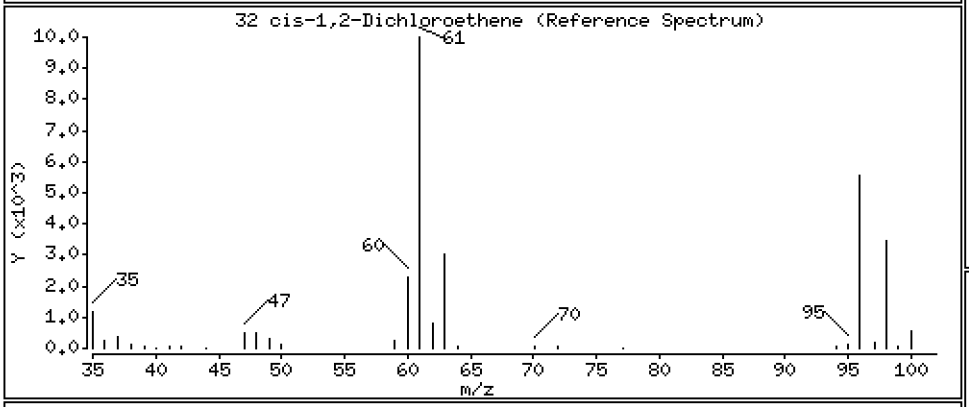
Purge Volume: 5.0 Operator: CJG

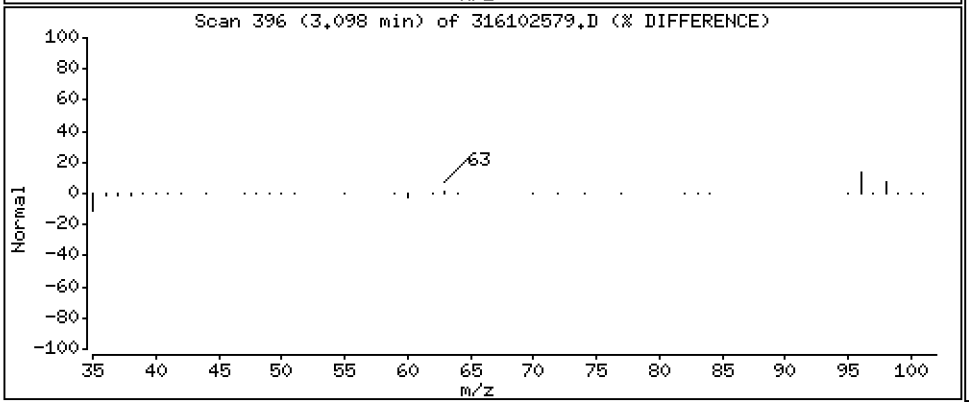
Column phase: DB-VRX Column diameter: 0.25

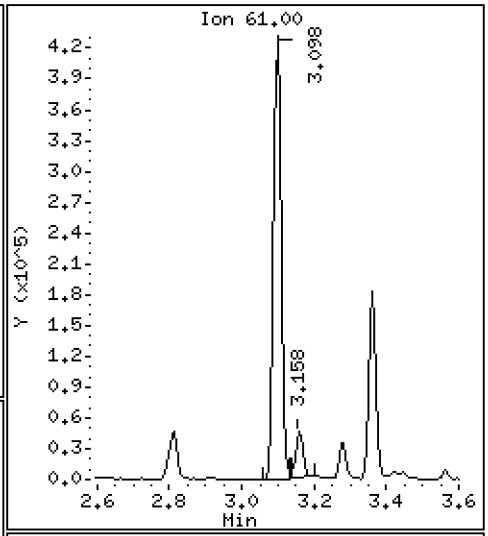
32 cis-1,2-Dichloroethene Concentration: 48.1405 ug/L

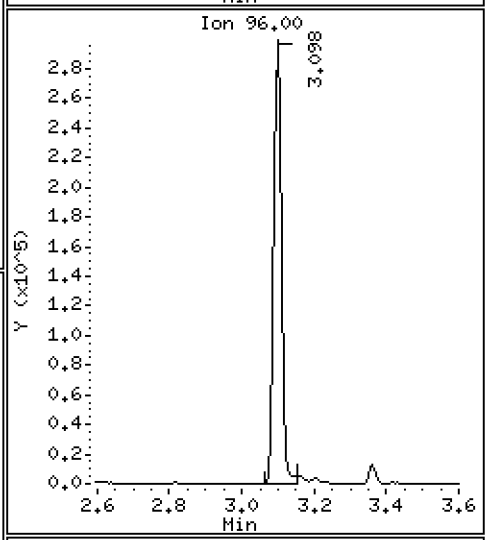


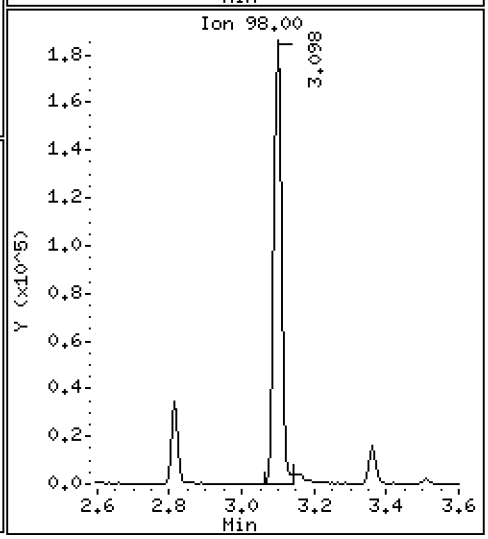












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 45

Date : 26-OCT-2016 08:14

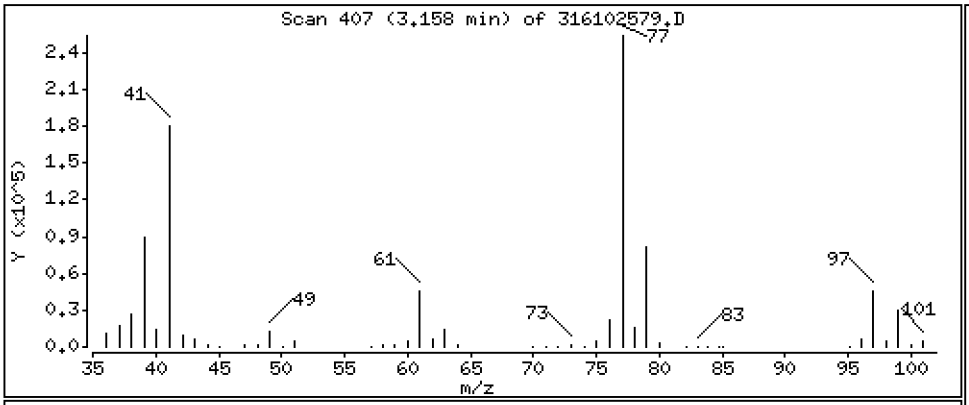
Client ID: Instrument: ms03.i

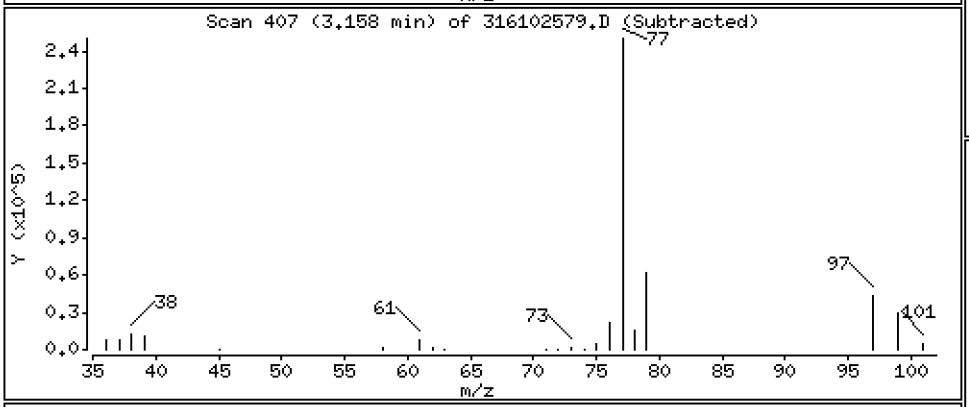
Sample Info: 1801;;1;2;4;;;

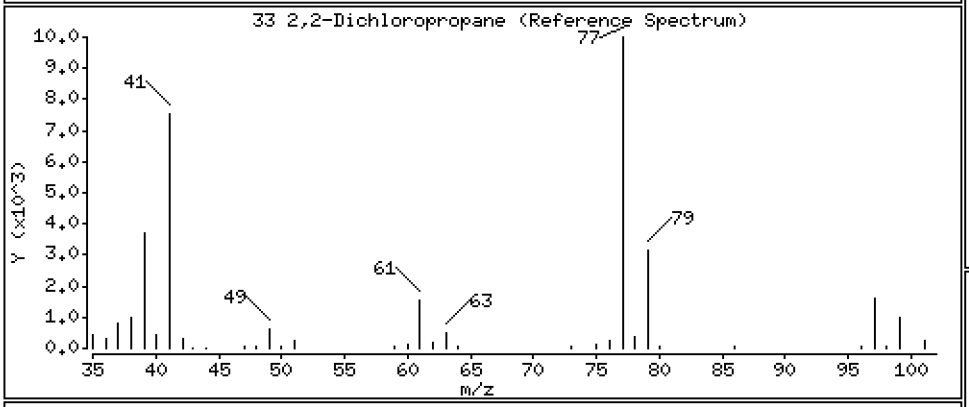
Purge Volume: 5.0 Operator: CJG

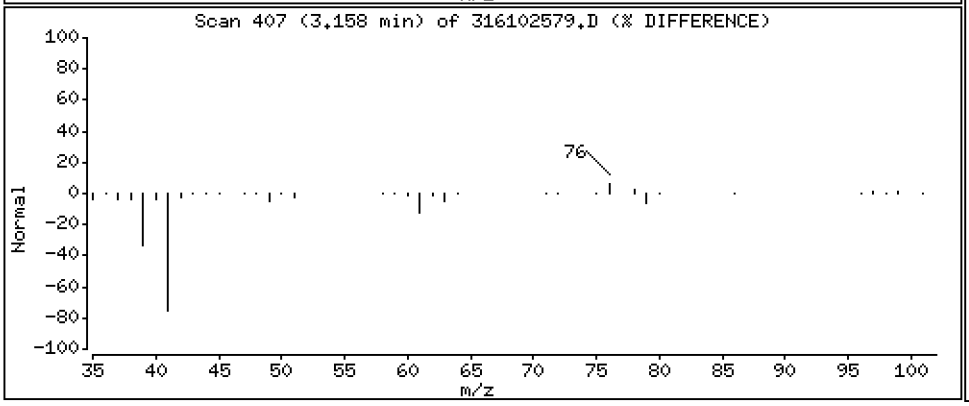
Column phase: DB-VRX Column diameter: 0.25

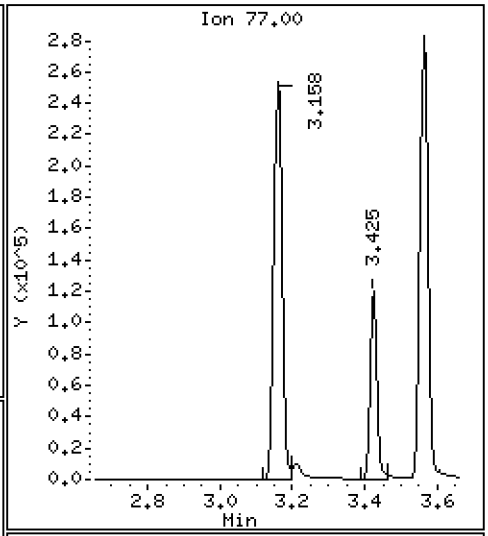
33 2,2-Dichloropropane Concentration: 39.8836 ug/L

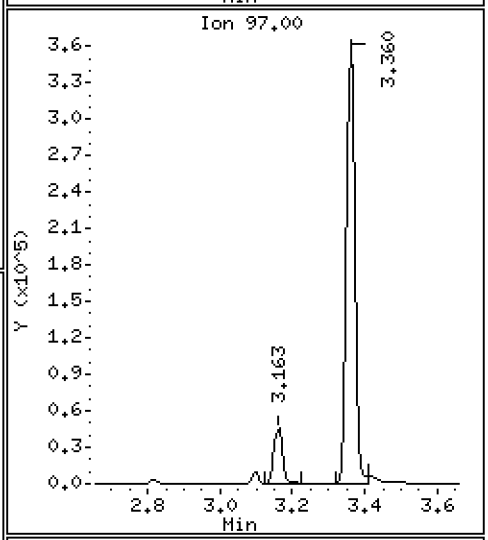


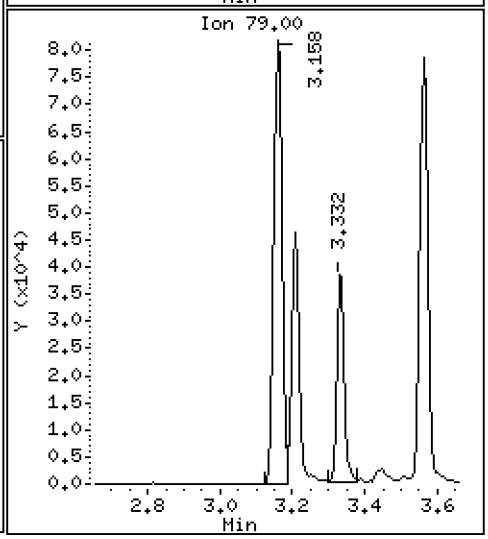












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 46

Date : 26-OCT-2016 08:14

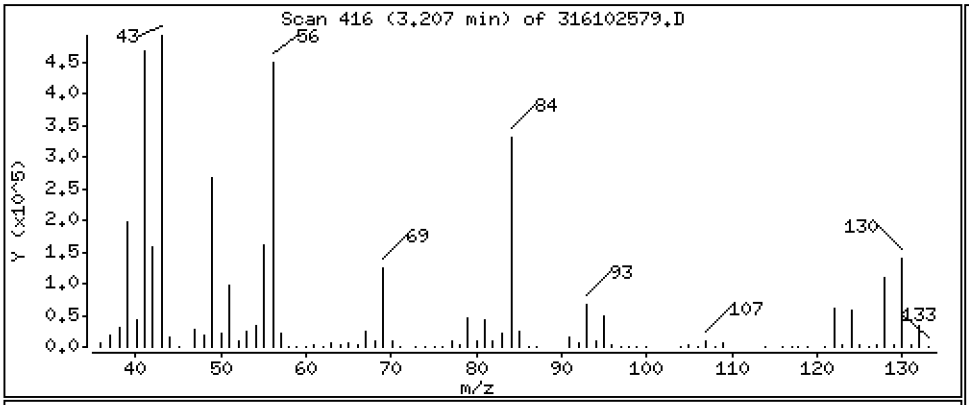
Client ID: Instrument: ms03.i

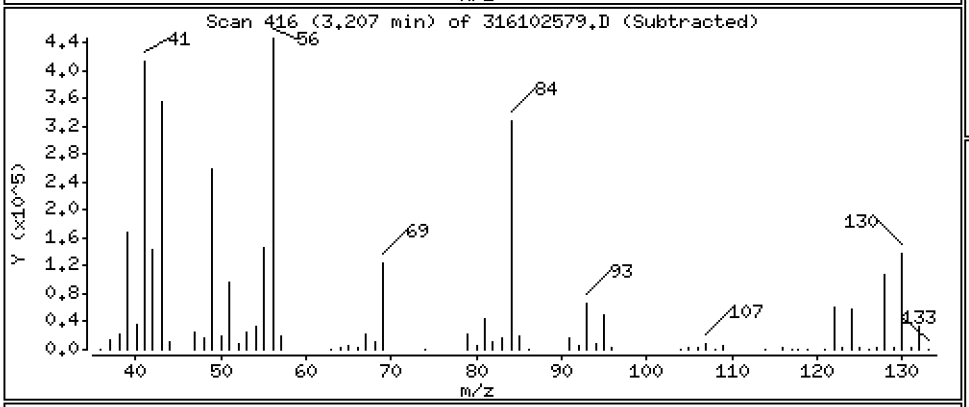
Sample Info: 1801;;1;2;4;;;

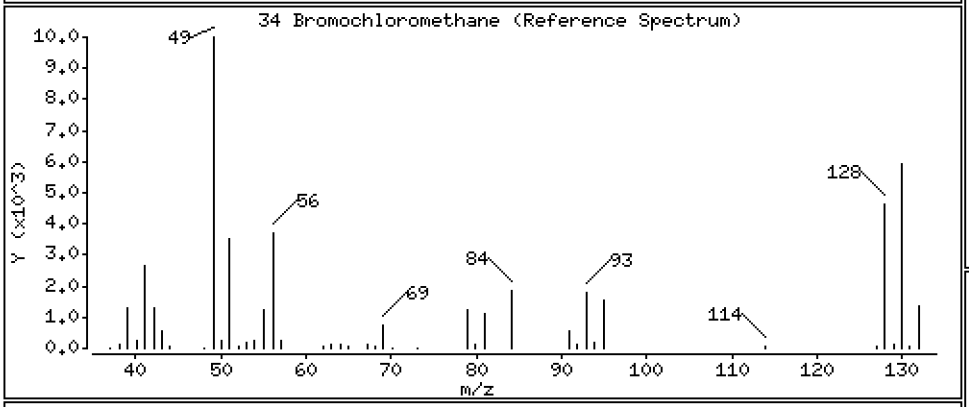
Purge Volume: 5.0 Operator: CJG

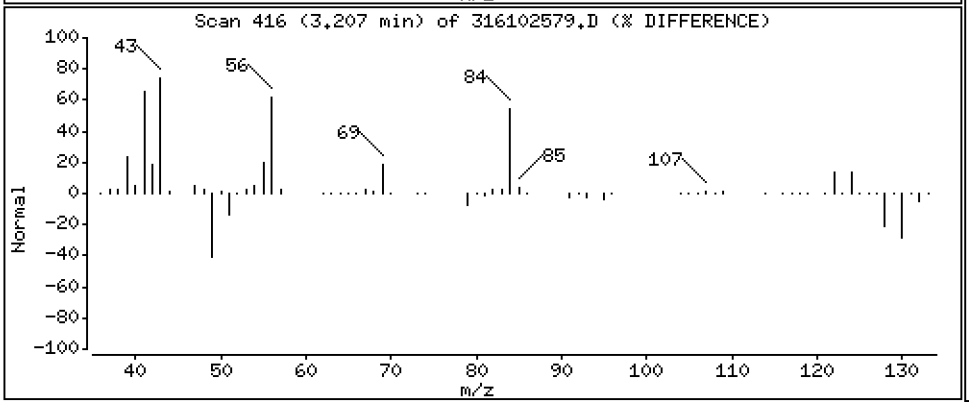
Column phase: DB-VRX Column diameter: 0.25

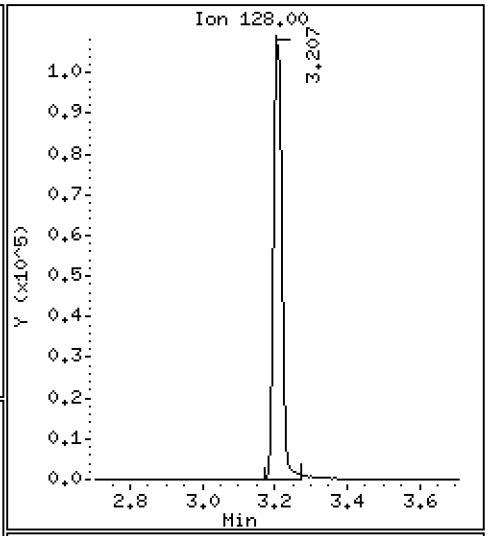
34 Bromochloromethane Concentration: 46.5789 ug/L

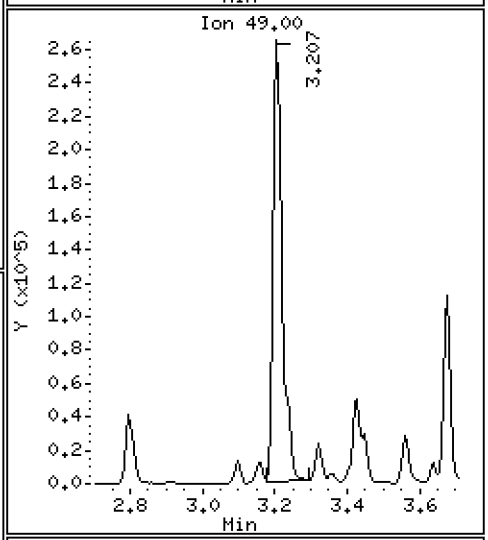


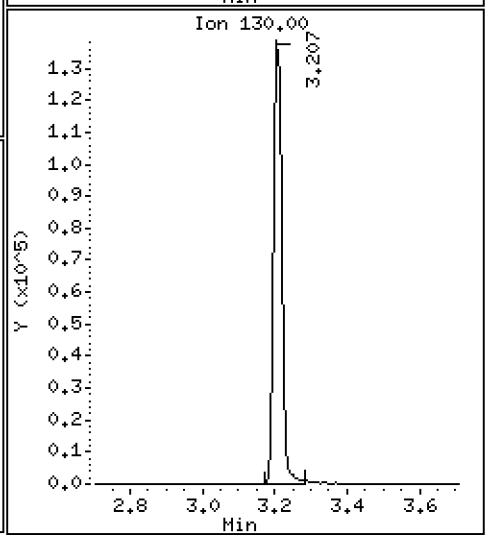












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 47

Date : 26-OCT-2016 08:14

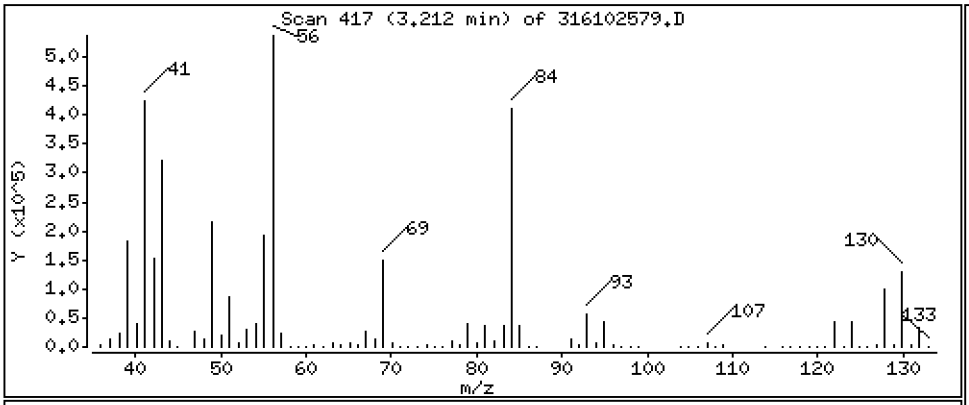
Client ID: Instrument: ms03.i

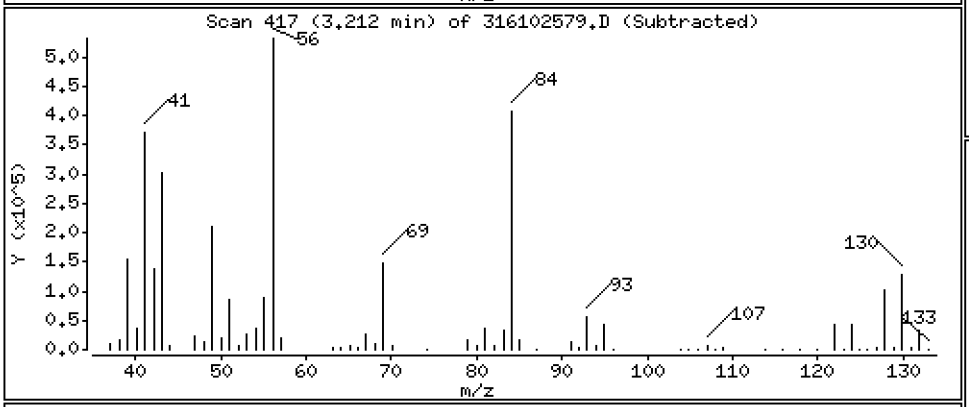
Sample Info: 1801;;1;2;4;;;

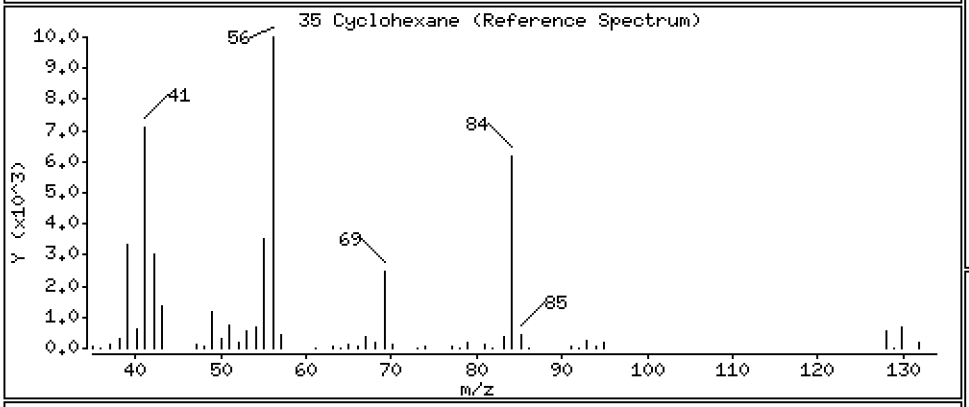
Purge Volume: 5.0 Operator: CJG

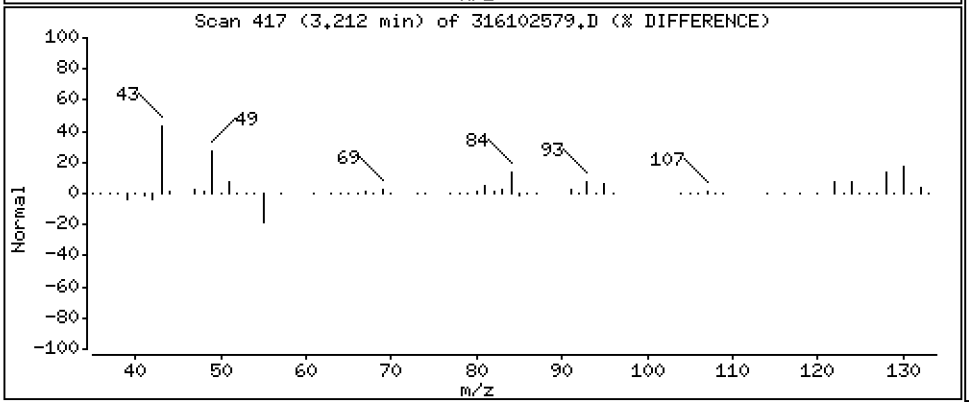
Column phase: DB-VRX Column diameter: 0.25

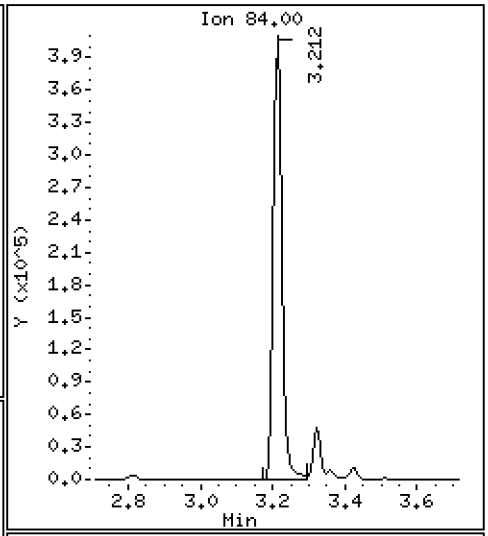
35 Cyclohexane Concentration: 48.6947 ug/L

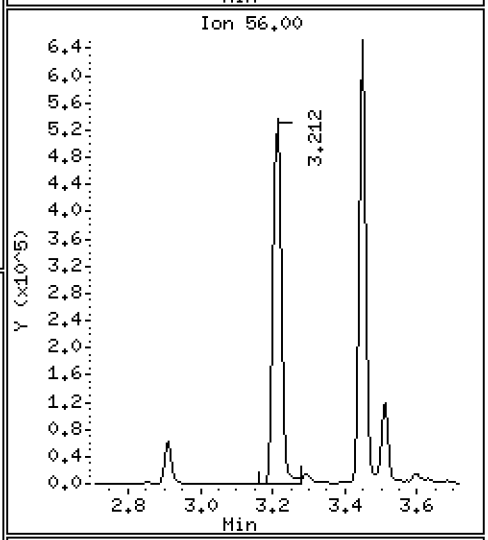


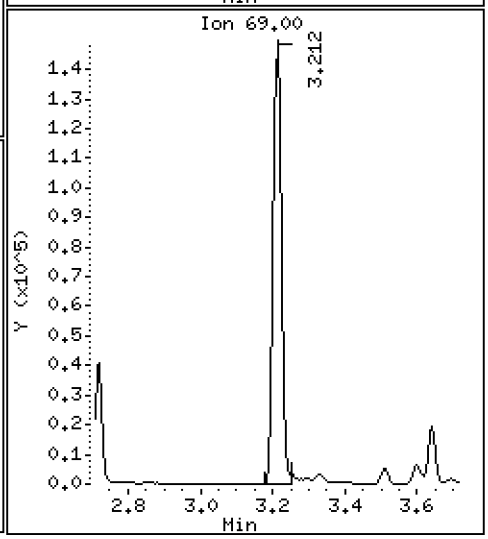












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 48

Date : 26-OCT-2016 08:14

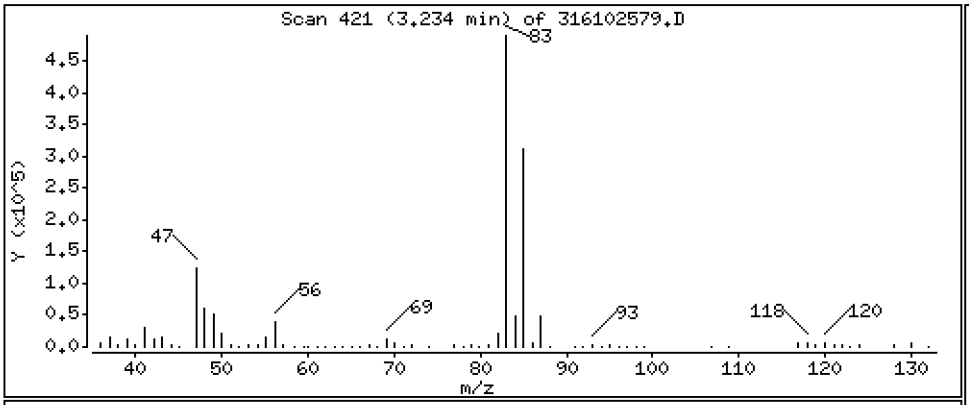
Client ID: Instrument: ms03.i

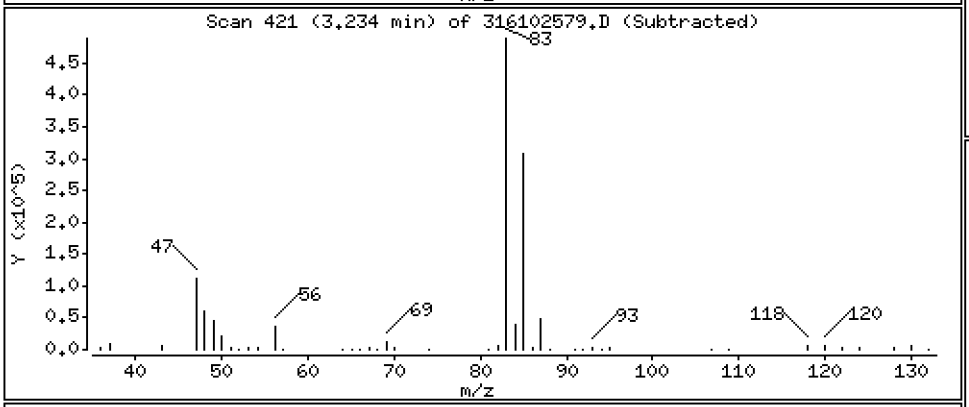
Sample Info: 1801;;1;2;4;;;

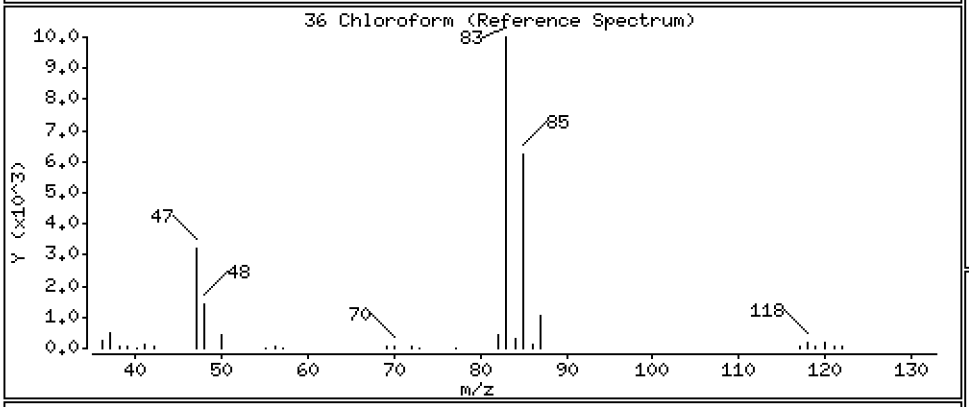
Purge Volume: 5.0 Operator: CJG

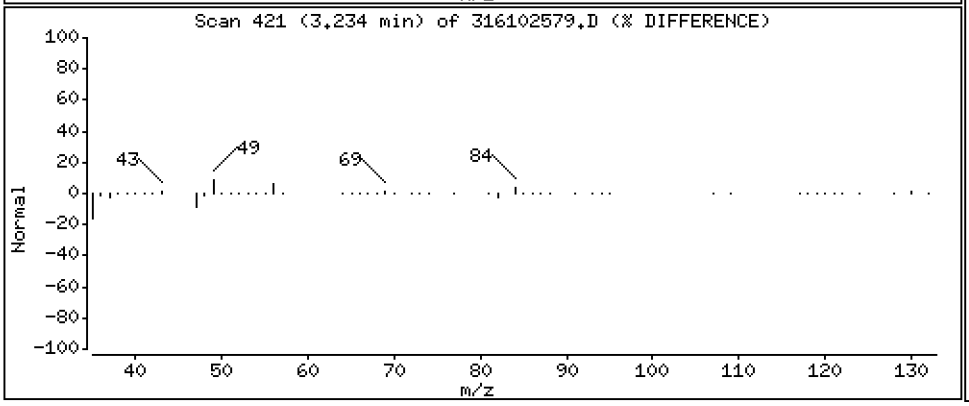
Column phase: DB-VRX Column diameter: 0.25

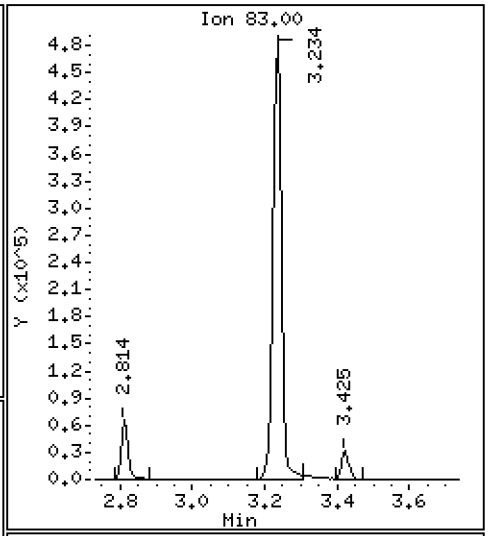
36 Chloroform Concentration: 50.6745 ug/L

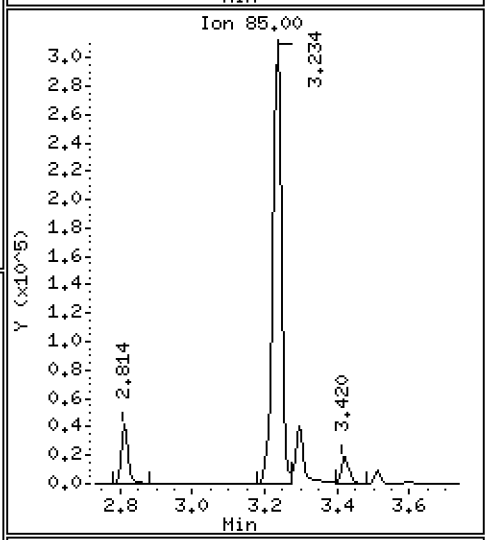


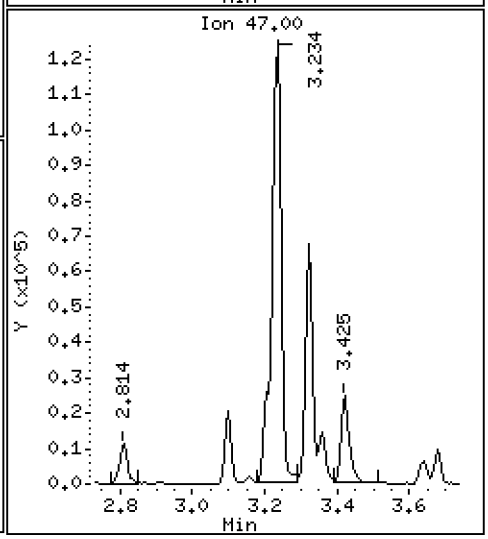












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 49

Date : 26-OCT-2016 08:14

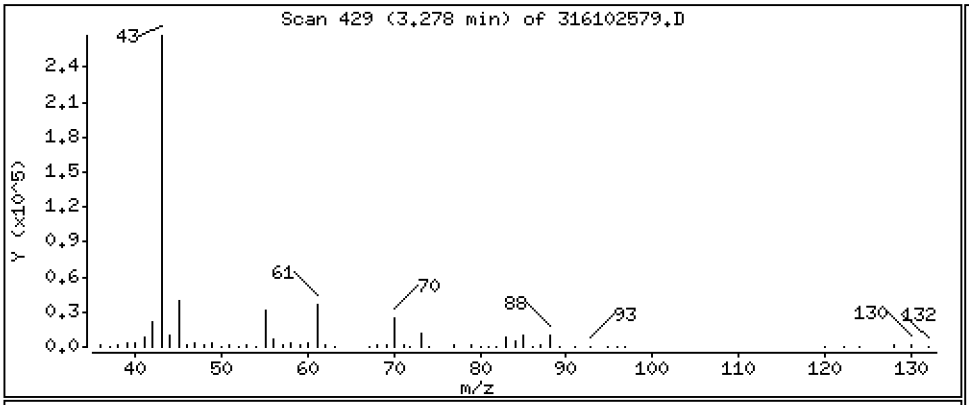
Client ID: Instrument: ms03.i

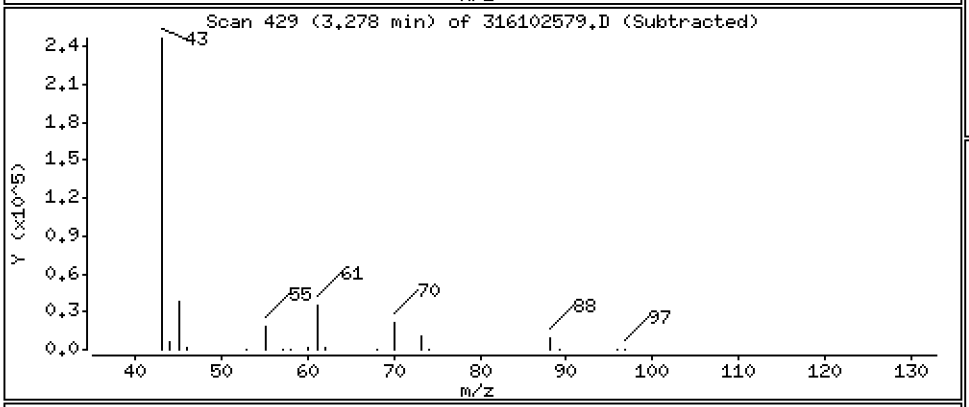
Sample Info: 1801;;1;2;4;;;

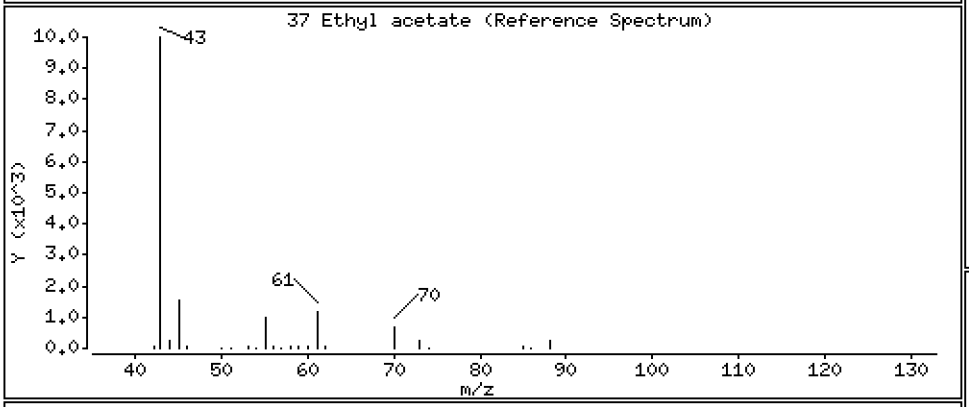
Purge Volume: 5.0 Operator: CJG

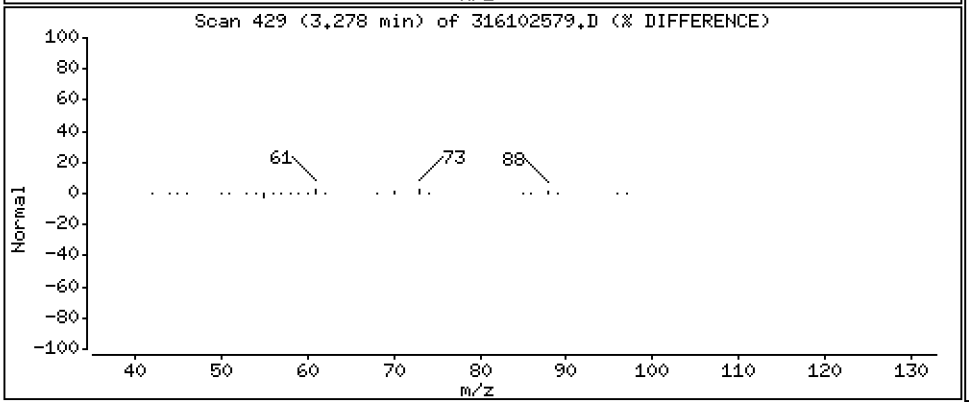
Column phase: DB-VRX Column diameter: 0.25

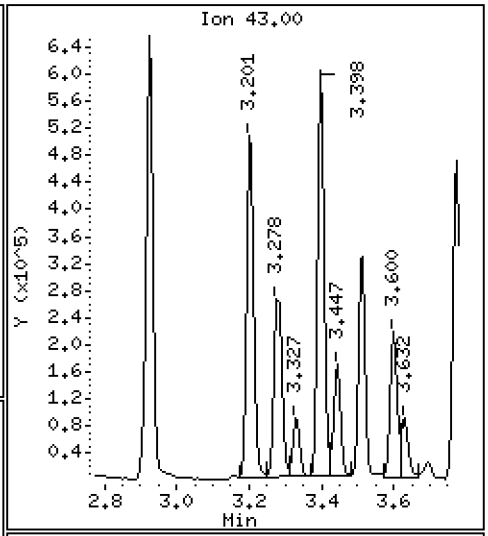
37 Ethyl acetate Concentration: 53.5923 ug/L

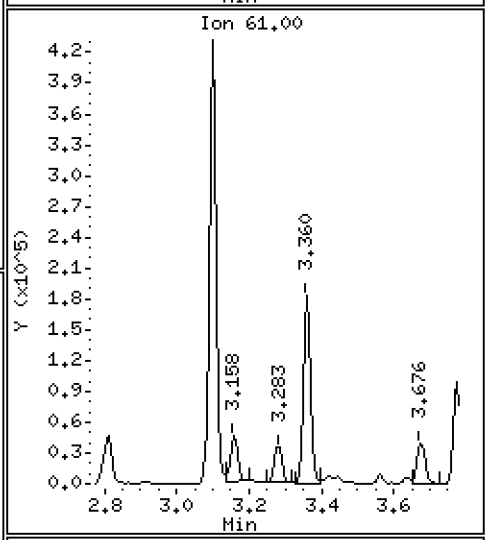


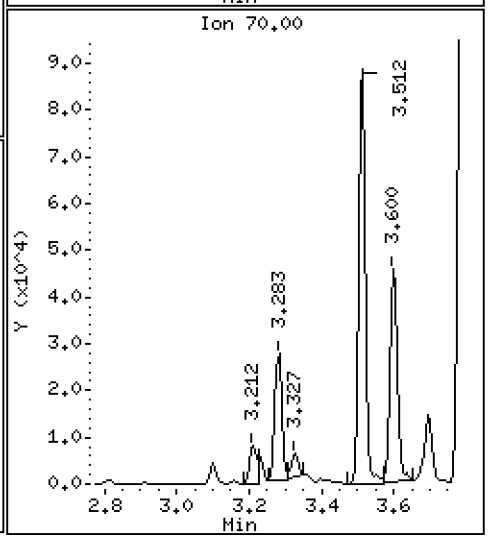












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 50

Date : 26-OCT-2016 08:14

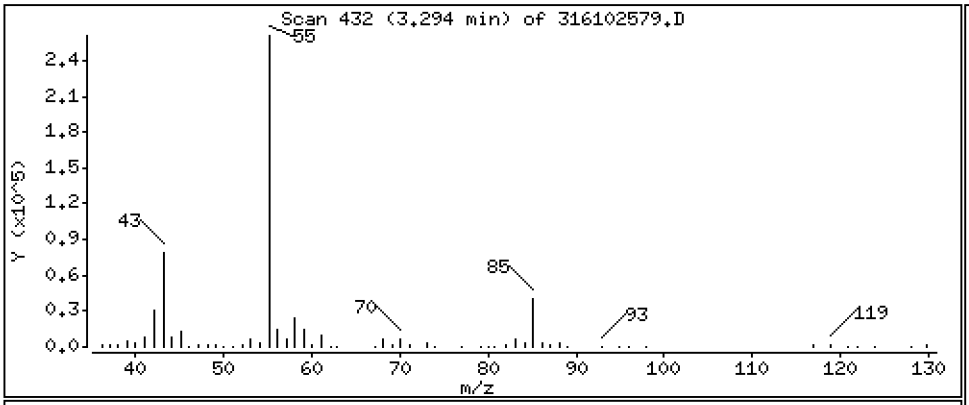
Client ID: Instrument: ms03.i

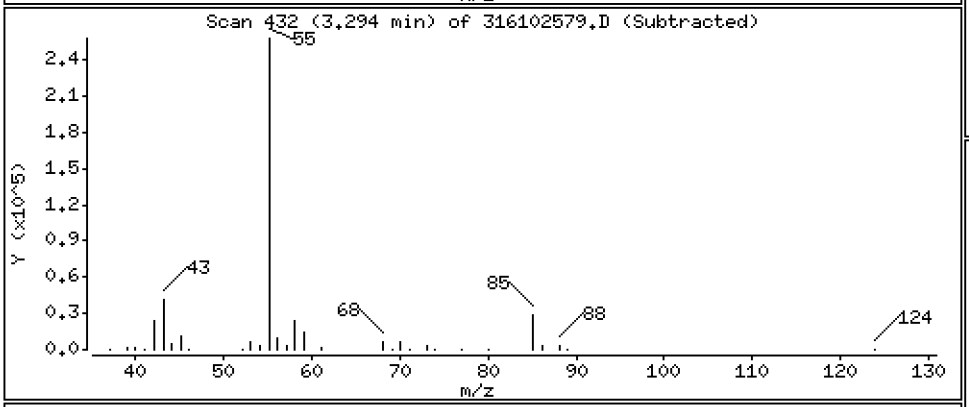
Sample Info: 1801;;1;2;4;;;

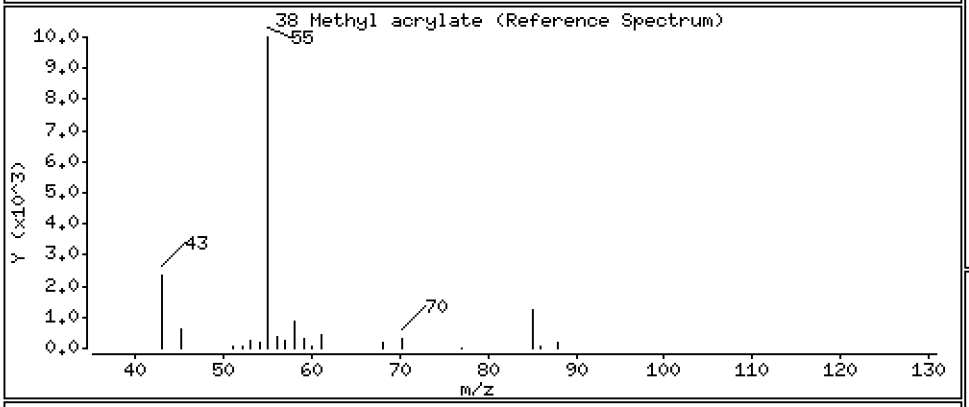
Purge Volume: 5.0 Operator: CJG

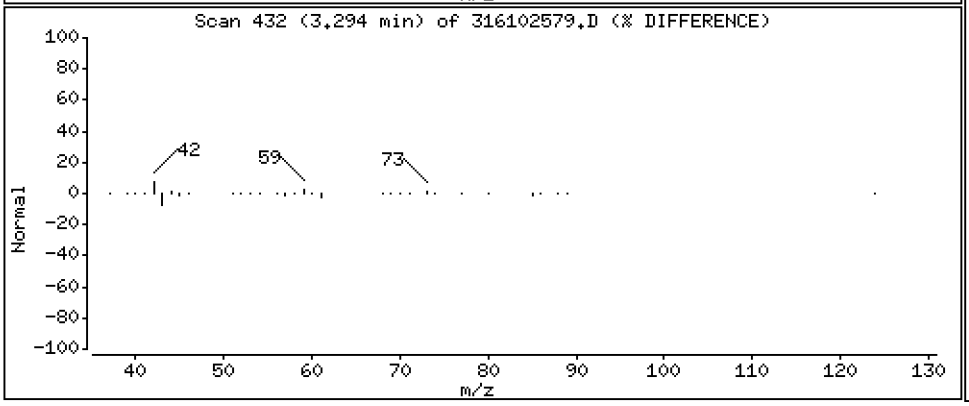
Column phase: DB-VRX Column diameter: 0.25

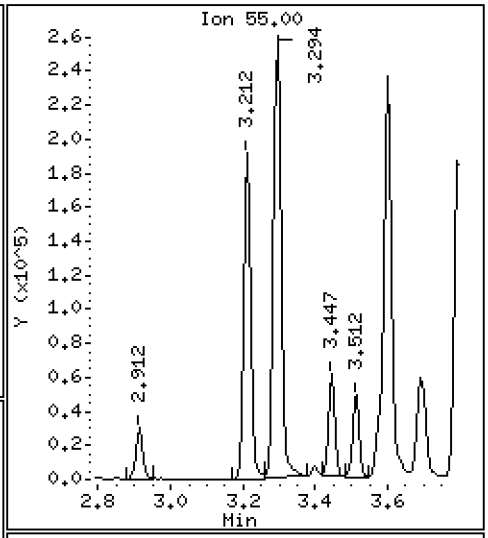
38 Methyl acrylate Concentration: 52.4839 ug/L

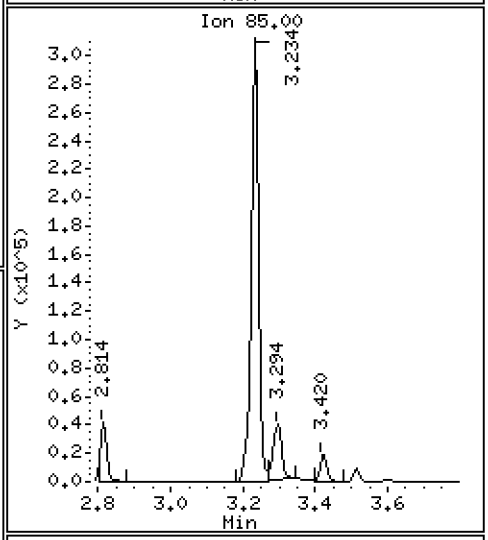


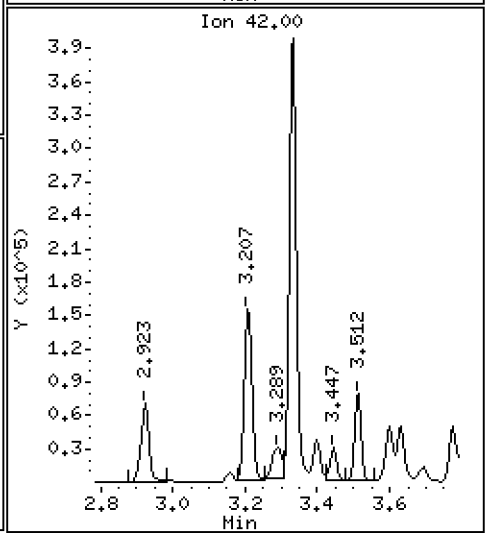












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 51

Date : 26-OCT-2016 08:14

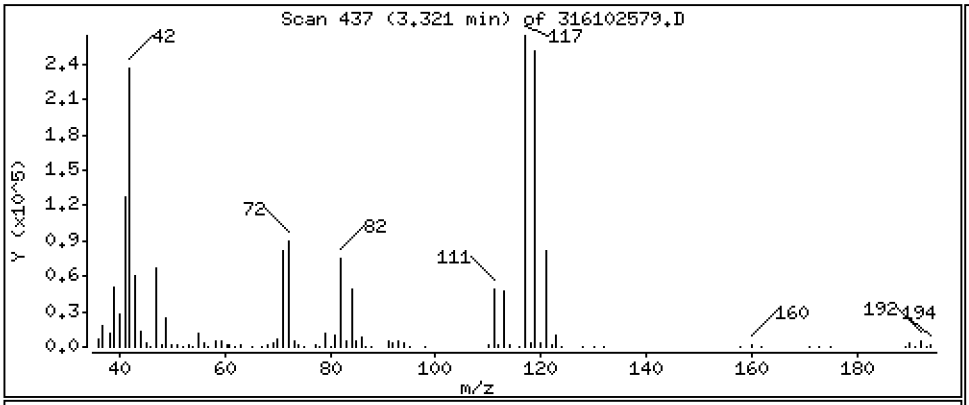
Client ID: Instrument: ms03.i

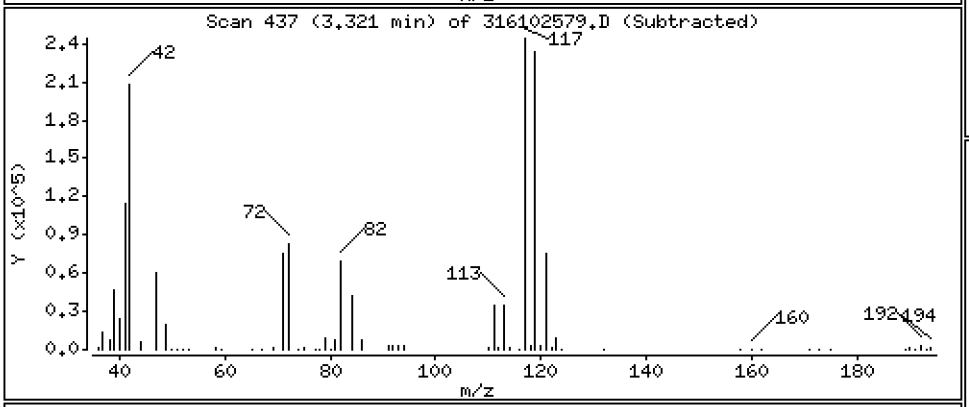
Sample Info: 1801;;1;2;4;;;

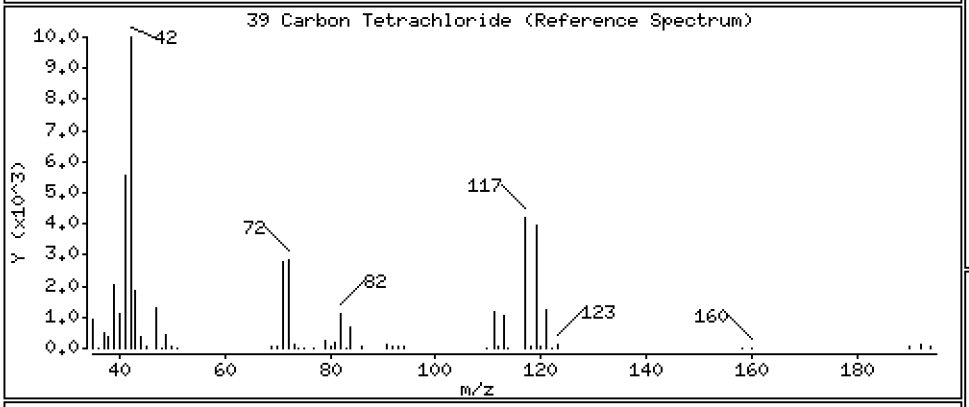
Purge Volume: 5.0 Operator: CJG

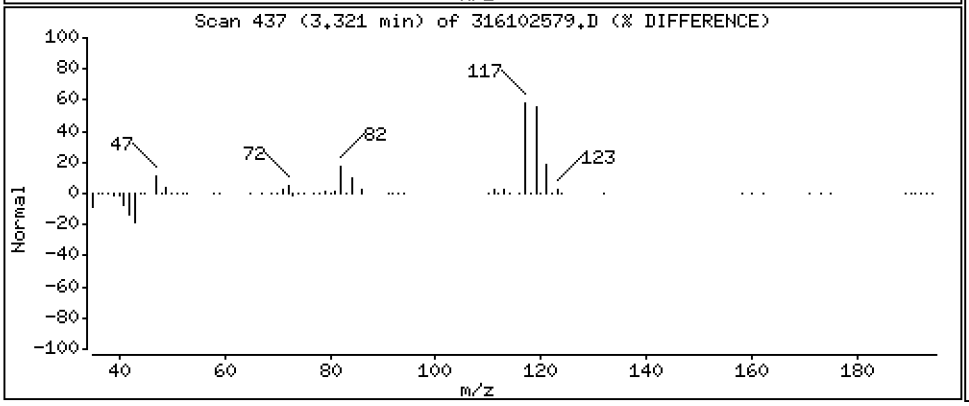
Column phase: DB-VRX Column diameter: 0.25

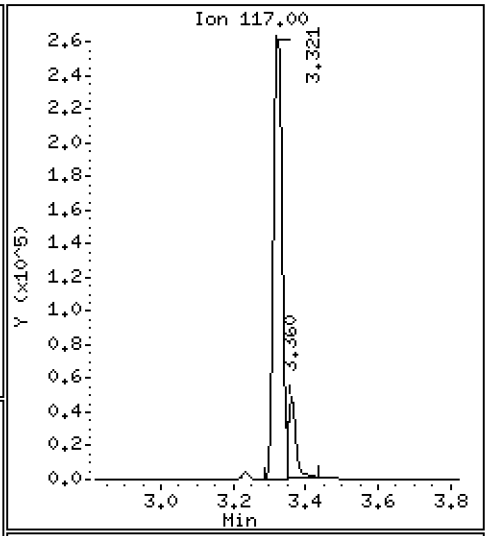
39 Carbon Tetrachloride Concentration: 48.0875 ug/L

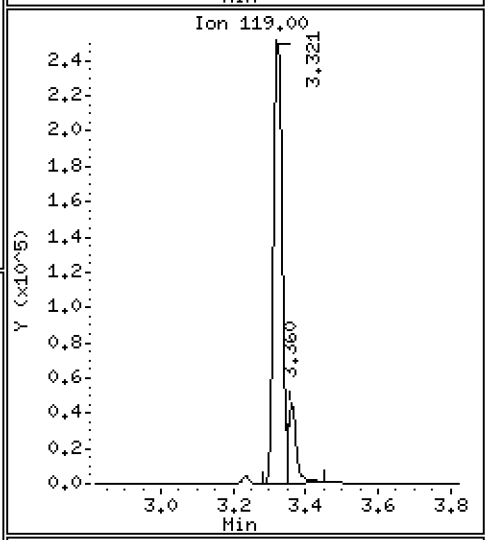


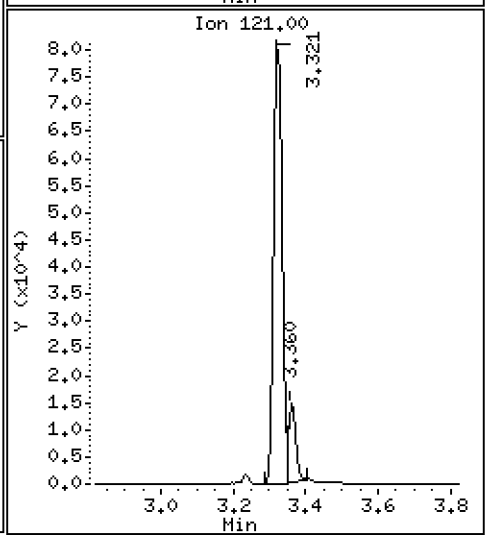












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 52

Date : 26-OCT-2016 08:14

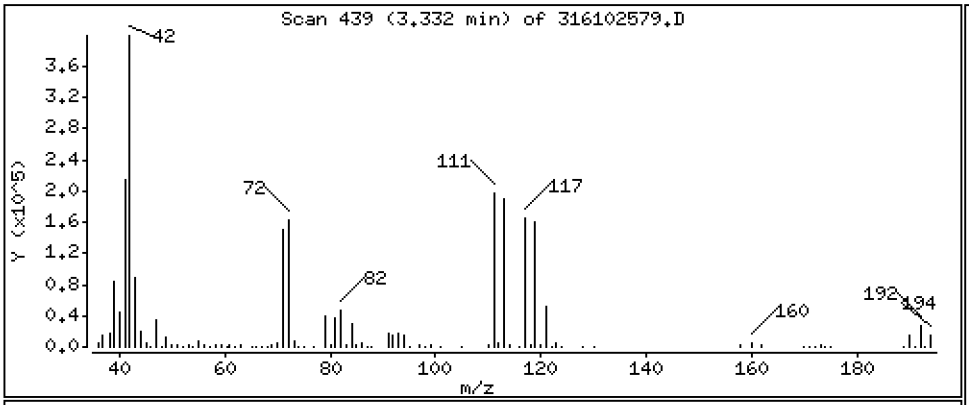
Client ID: Instrument: ms03.i

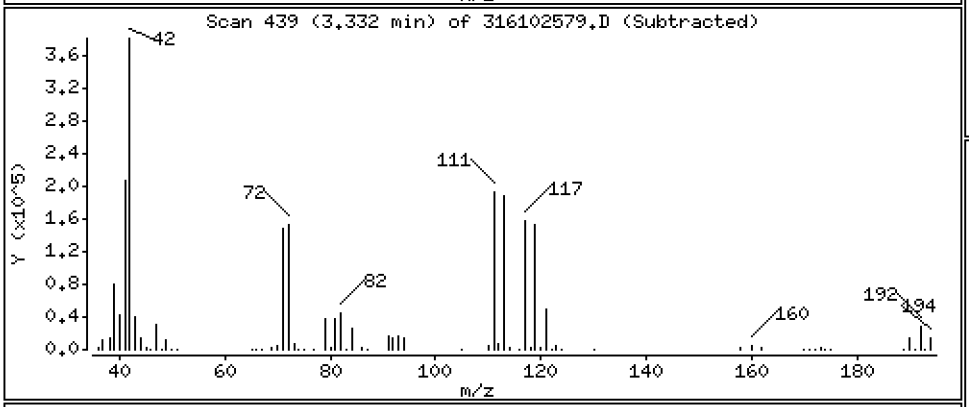
Sample Info: 1801;;1;2;4;;;

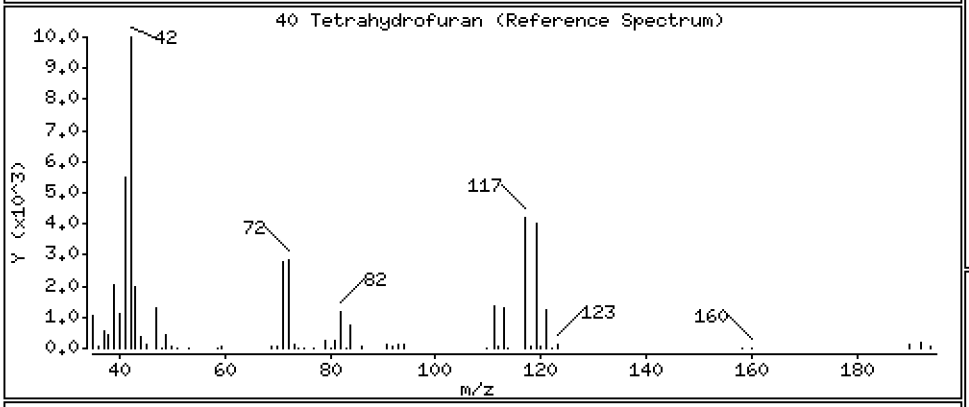
Purge Volume: 5.0 Operator: CJG

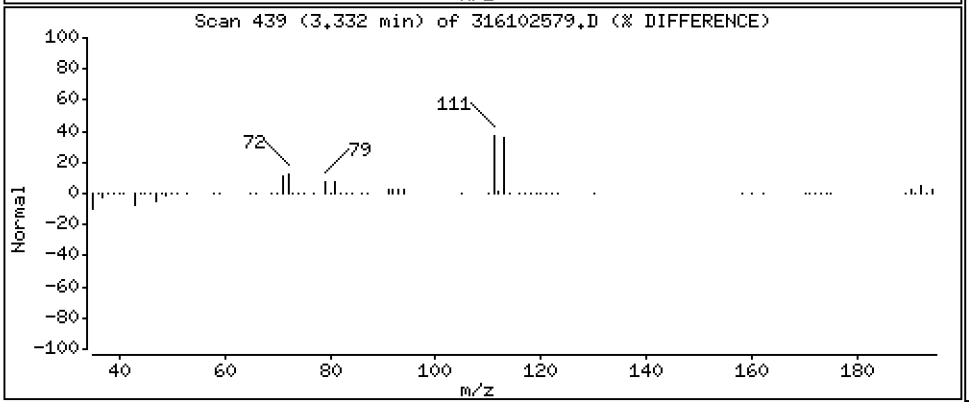
Column phase: DB-VRX Column diameter: 0.25

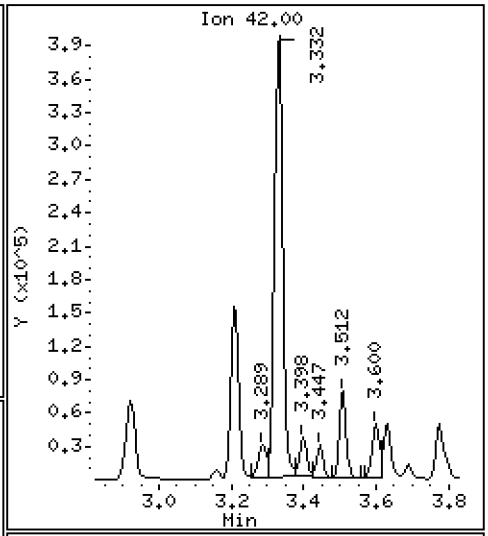
40 Tetrahydrofuran Concentration: 267.966 ug/L

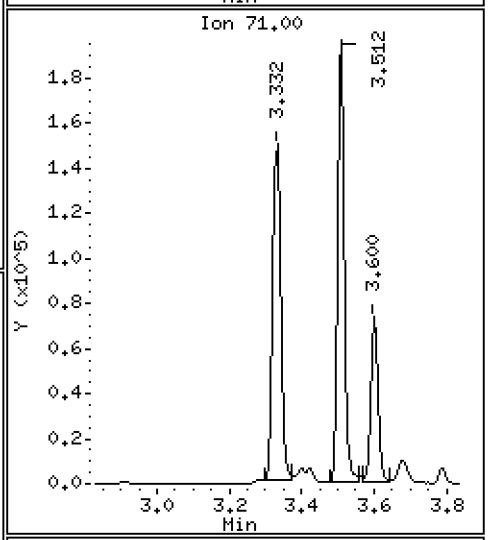


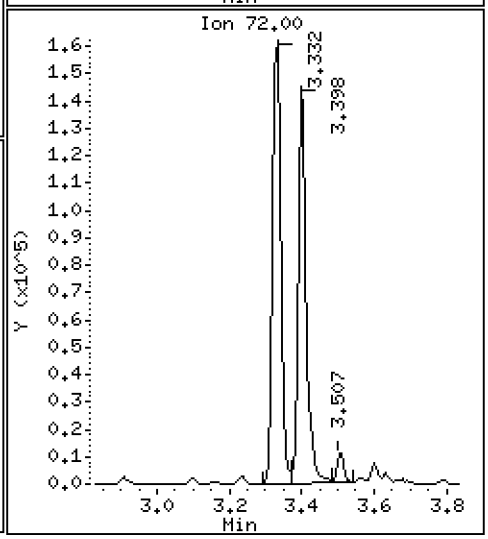












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 53

Date : 26-OCT-2016 08:14

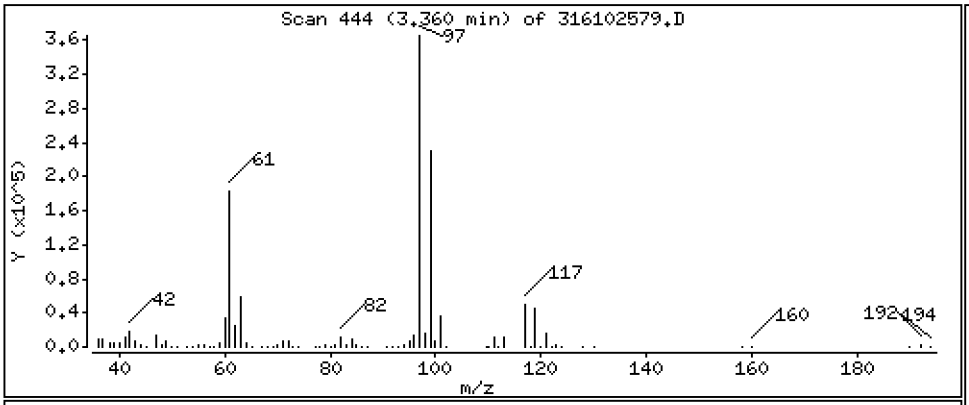
Client ID: Instrument: ms03.i

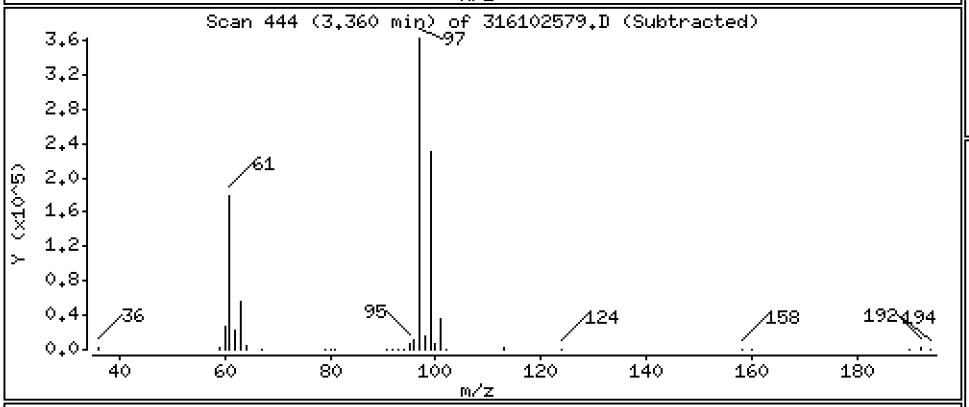
Sample Info: 1801;;1;2;4;;;

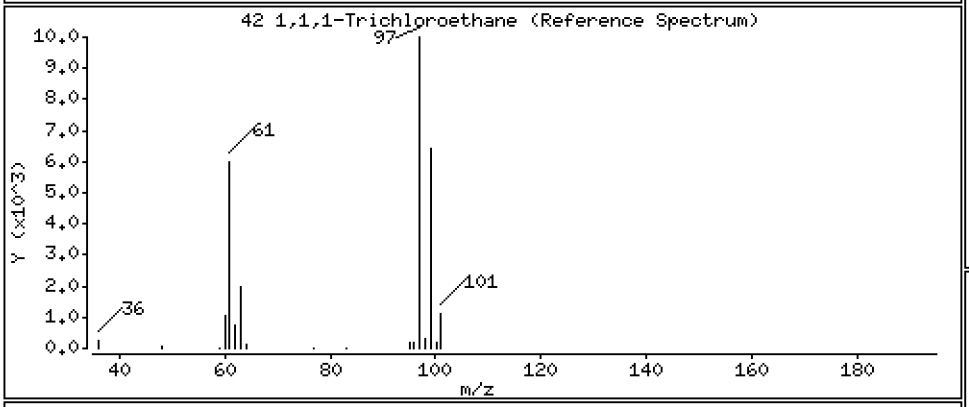
Purge Volume: 5.0 Operator: CJG

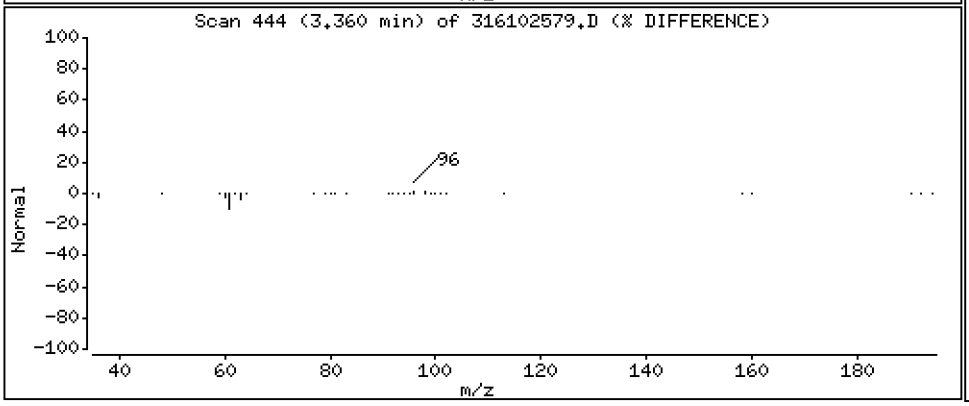
Column phase: DB-VRX Column diameter: 0.25

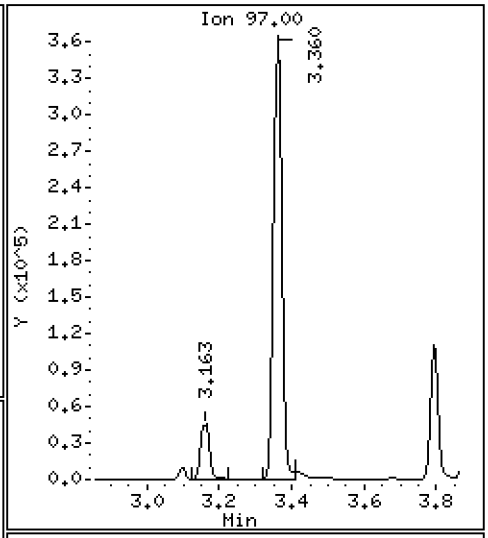
42 1,1,1-Trichloroethane Concentration: 49.2405 ug/L

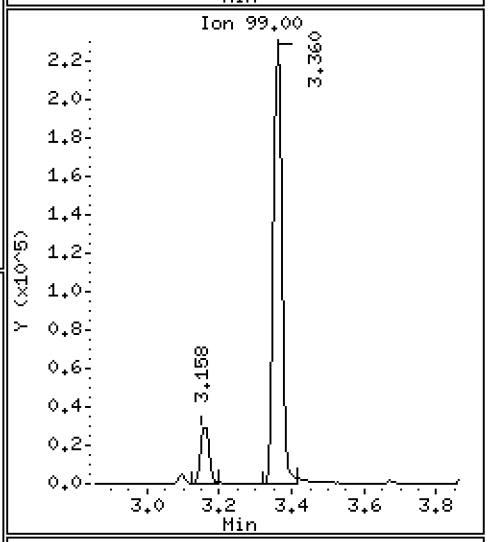


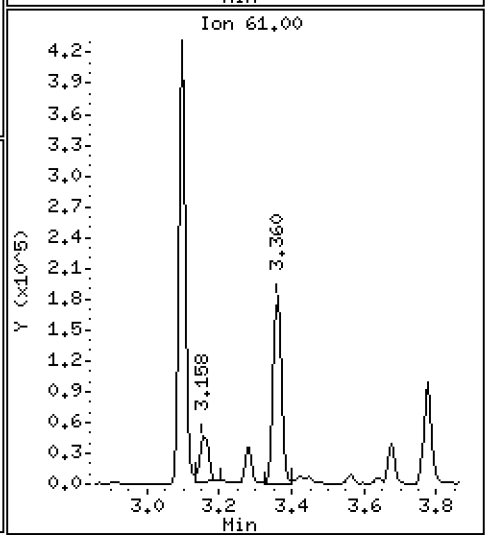












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 54

Date : 26-OCT-2016 08:14

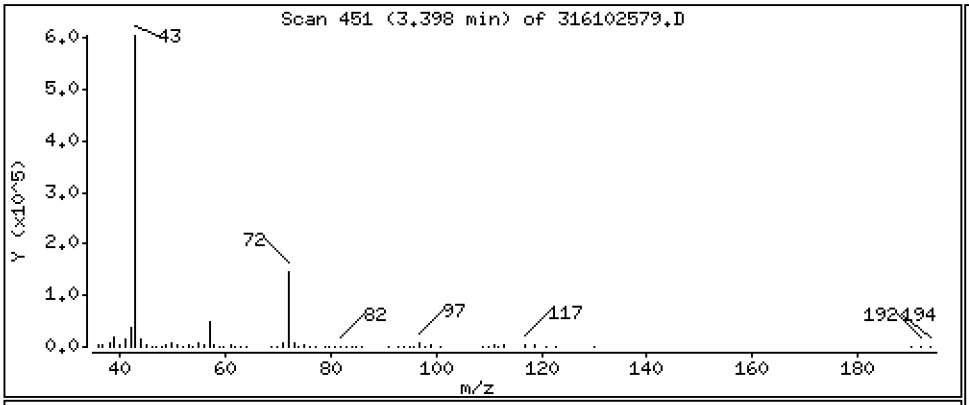
Client ID: Instrument: ms03.i

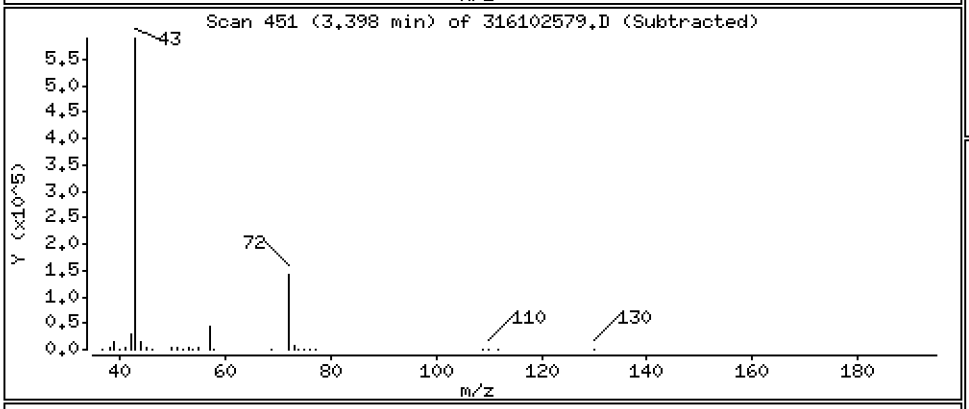
Sample Info: 1801;;1;2;4;;;

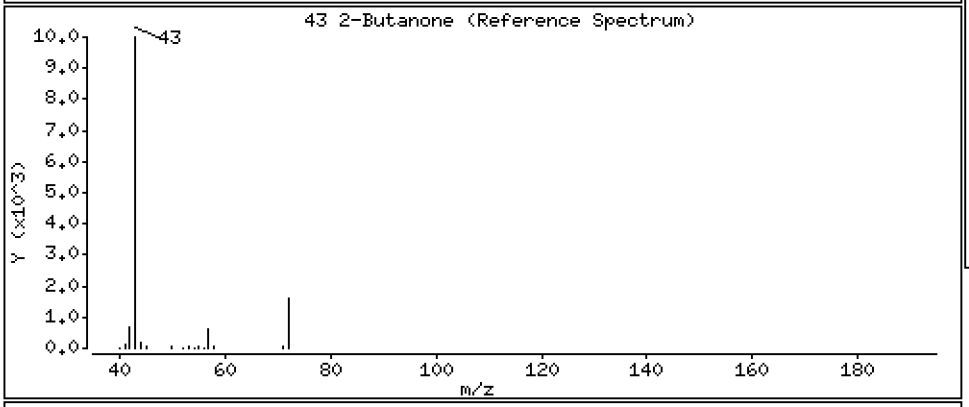
Purge Volume: 5.0 Operator: CJG

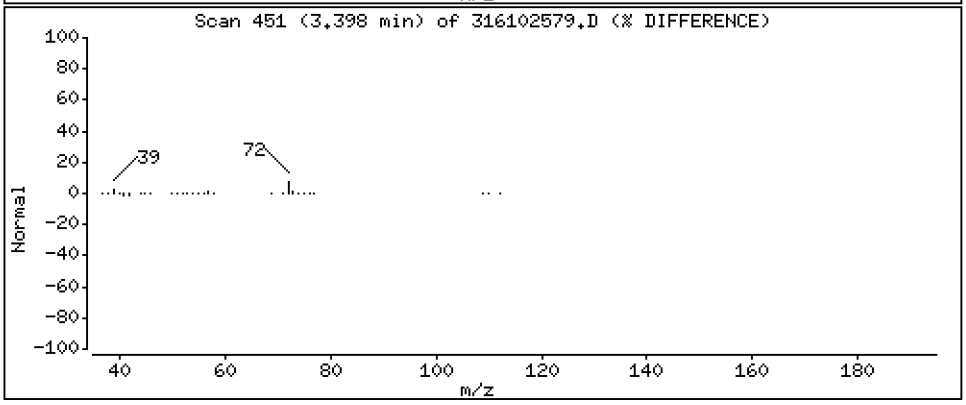
Column phase: DB-VRX Column diameter: 0.25

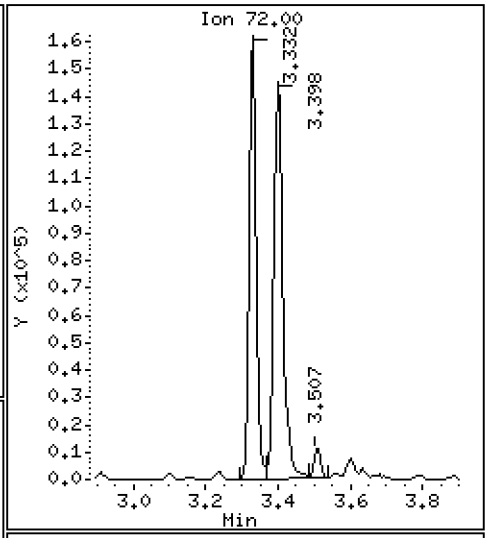
43 2-Butanone Concentration: 252.748 ug/L

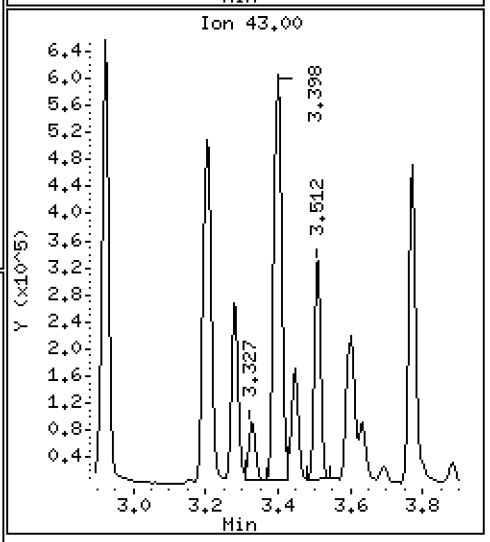












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 55

Date : 26-OCT-2016 08:14

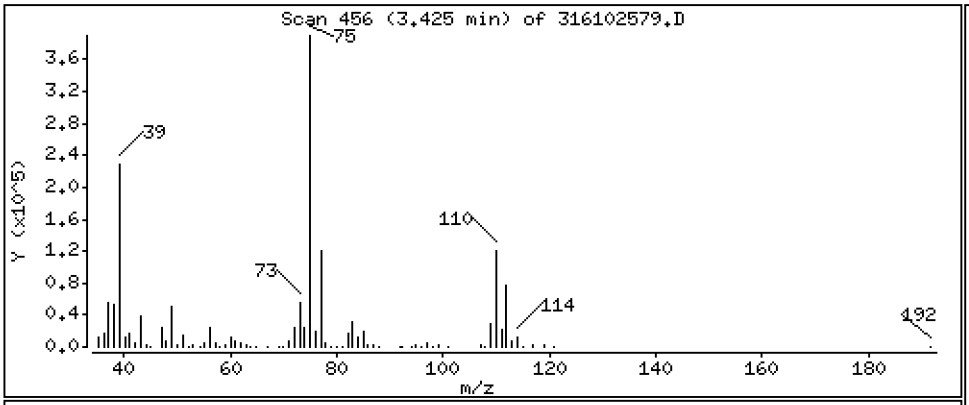
Client ID: Instrument: ms03.i

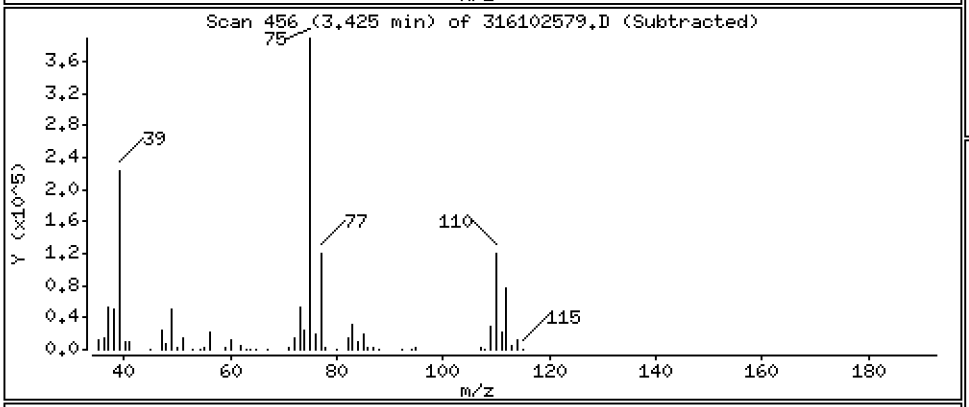
Sample Info: 1801;;1;2;4;;;

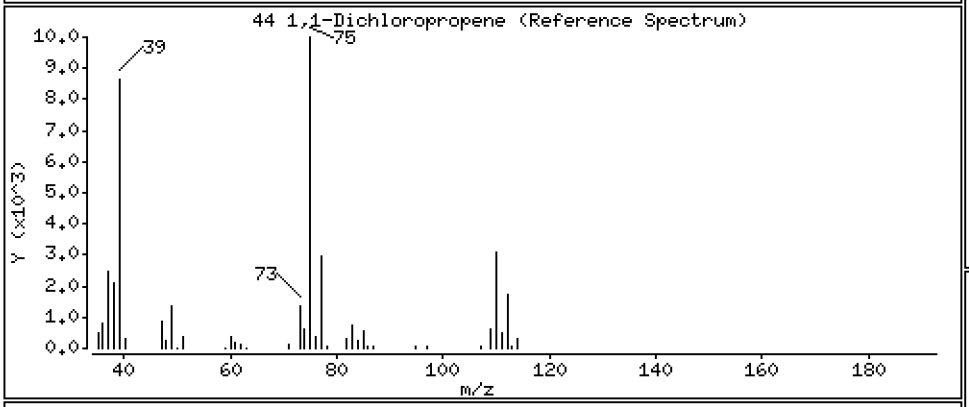
Purge Volume: 5.0 Operator: CJG

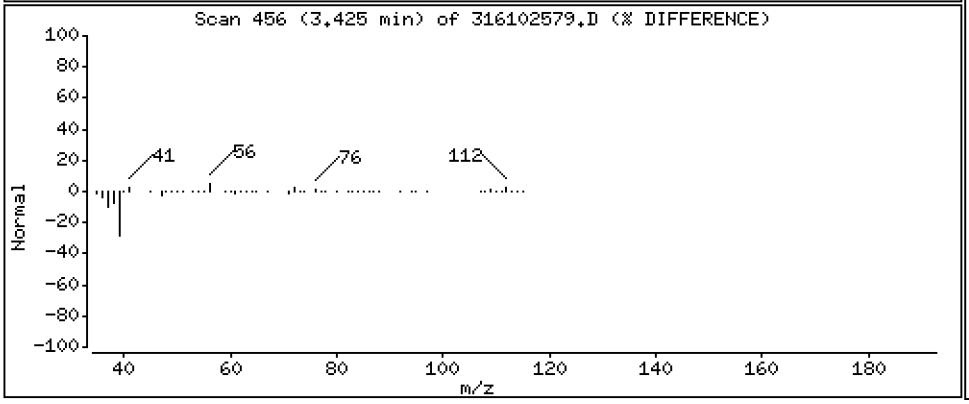
Column phase: DB-VRX Column diameter: 0.25

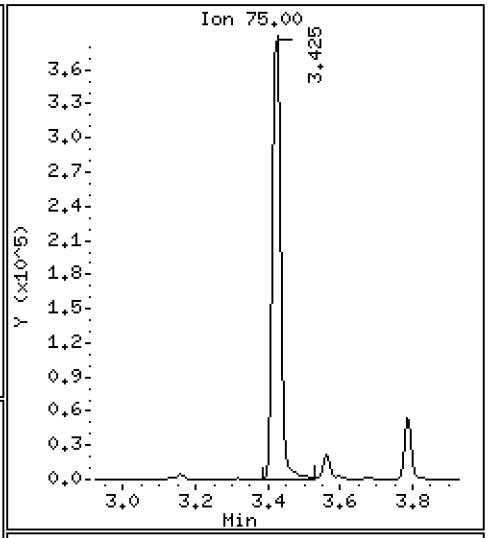
44 1,1-Dichloropropene Concentration: 48.6863 ug/L

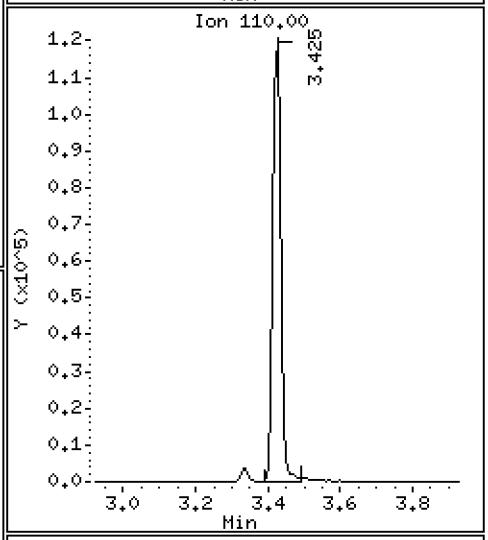


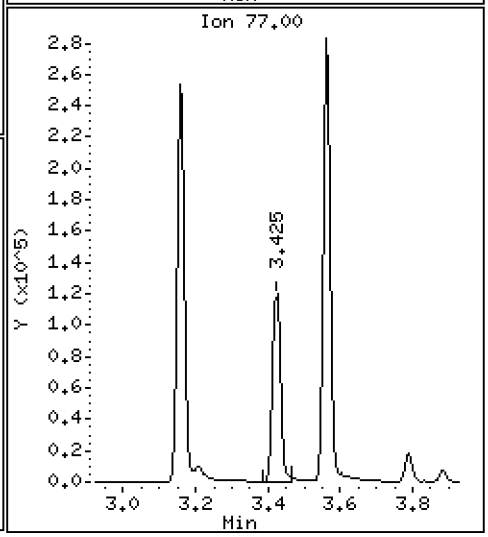












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 56

Date : 26-OCT-2016 08:14

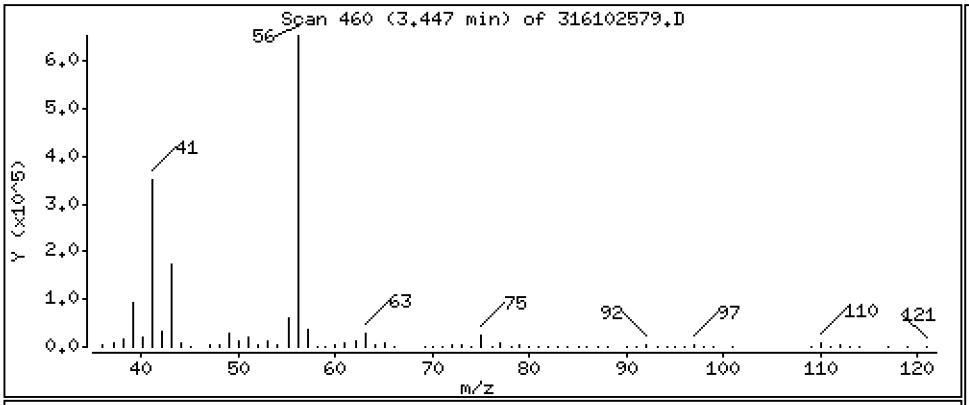
Client ID: Instrument: ms03.i

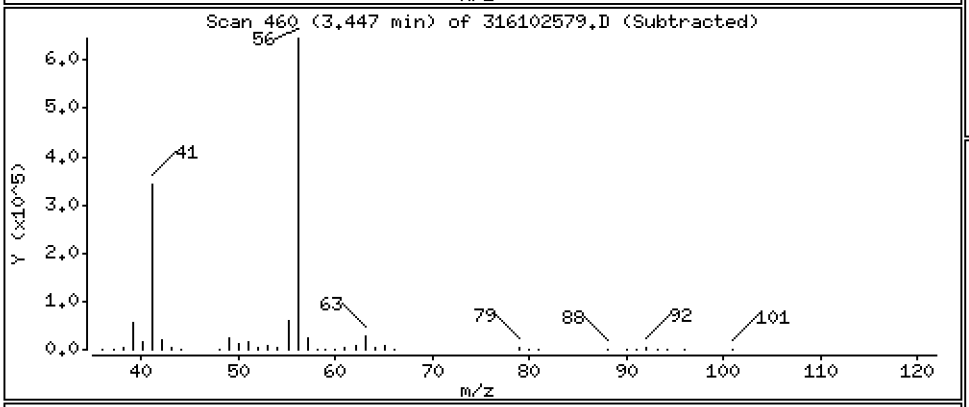
Sample Info: 1801;;1;2;4;;;

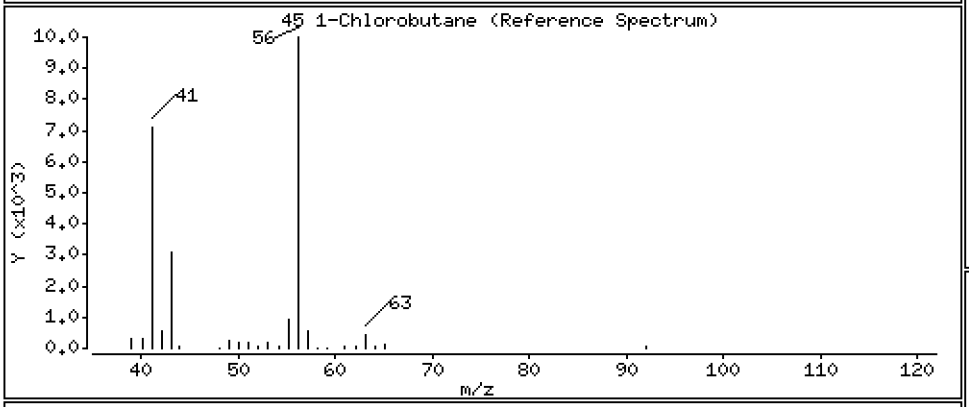
Purge Volume: 5.0 Operator: CJG

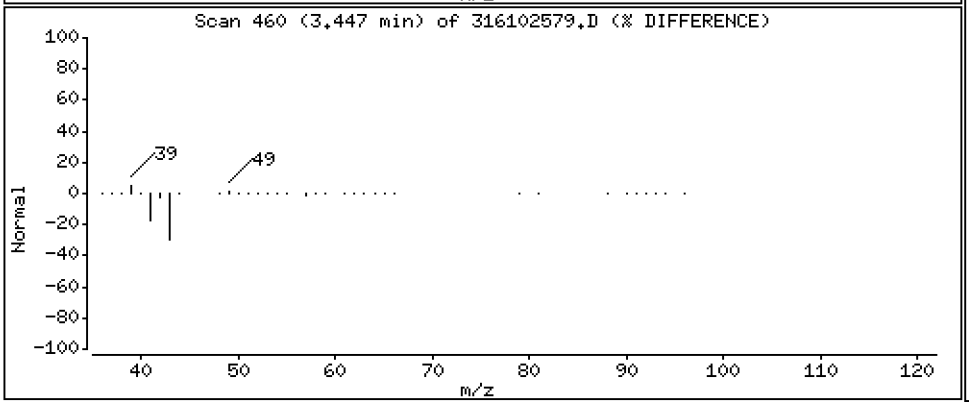
Column phase: DB-VRX Column diameter: 0.25

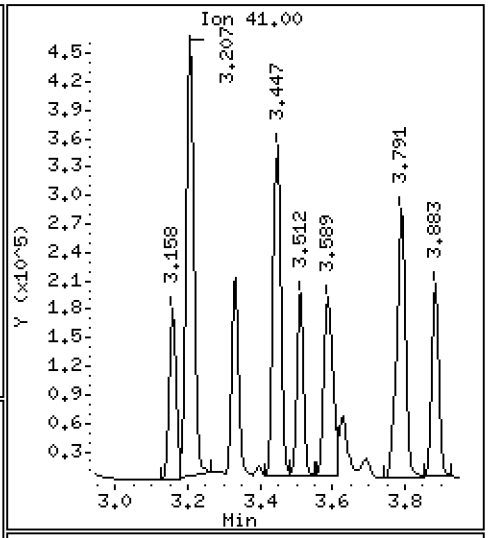
45 1-Chlorobutane Concentration: 55.6384 ug/L

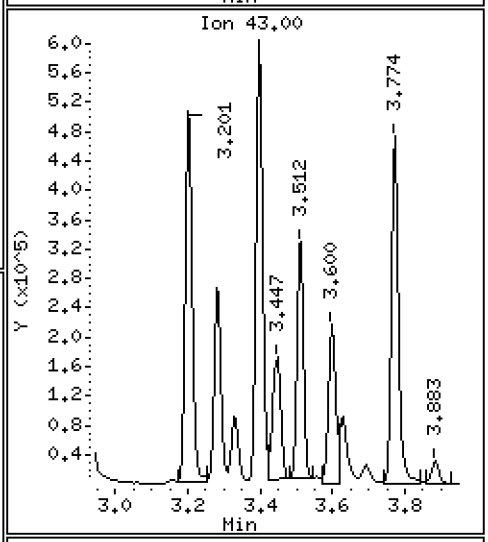


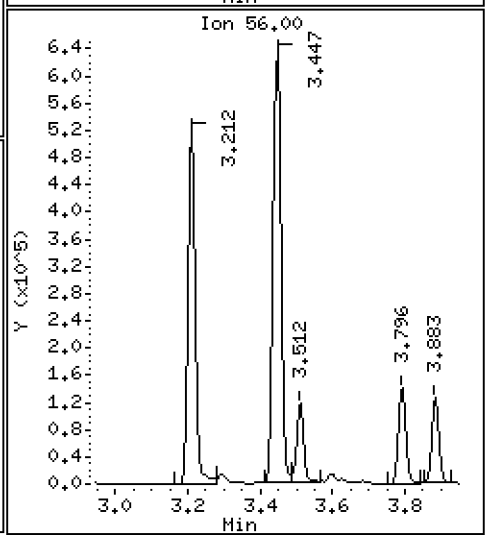












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 57

Date : 26-OCT-2016 08:14

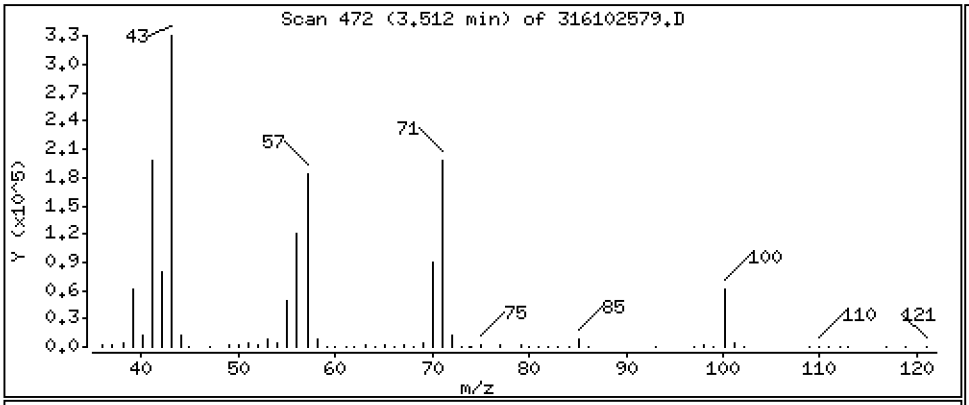
Client ID: Instrument: ms03.i

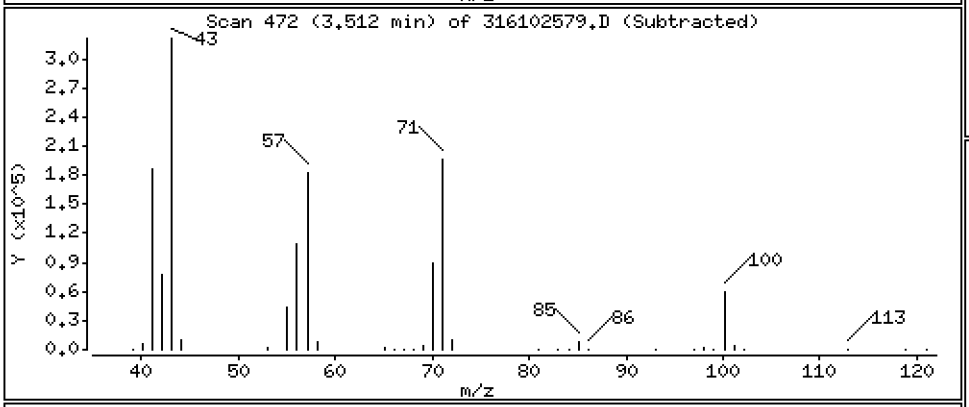
Sample Info: 1801;;1;2;4;;;

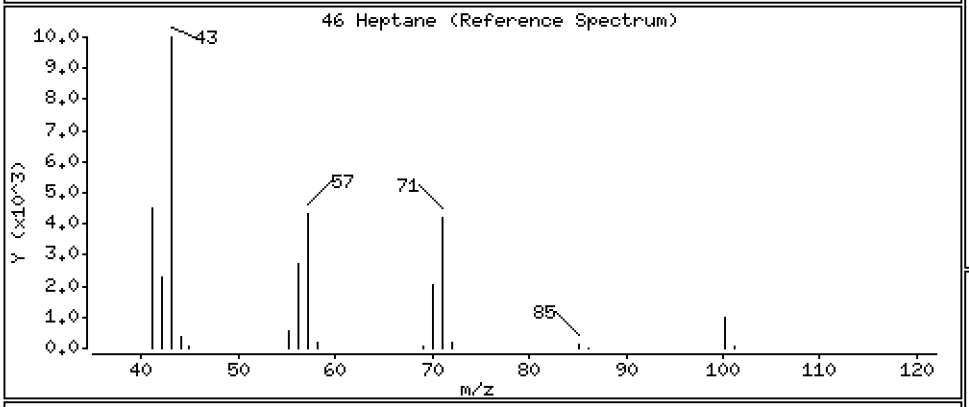
Purge Volume: 5.0 Operator: CJG

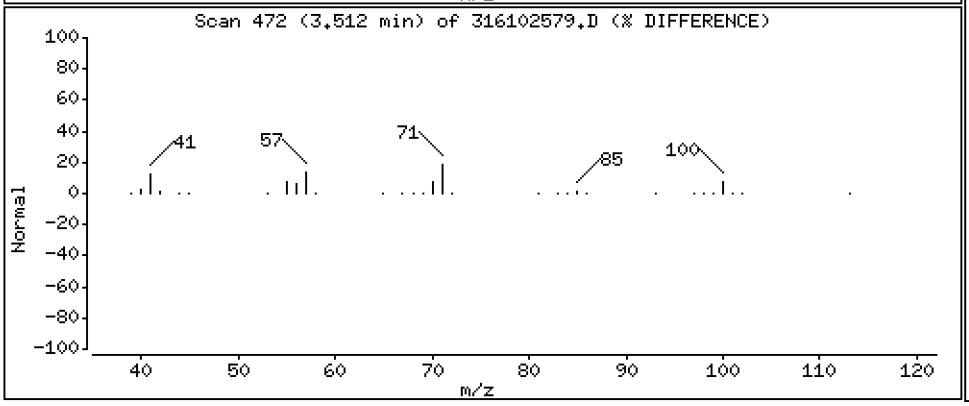
Column phase: DB-VRX Column diameter: 0.25

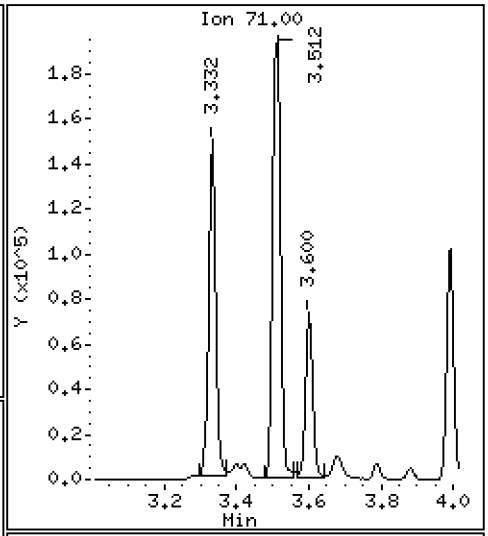
46 Heptane Concentration: 49.9499 ug/L

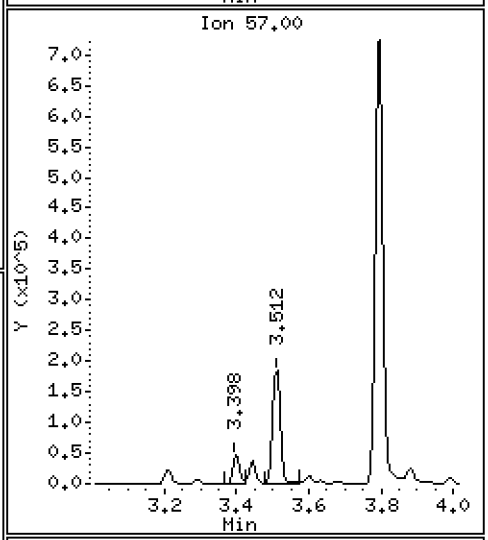


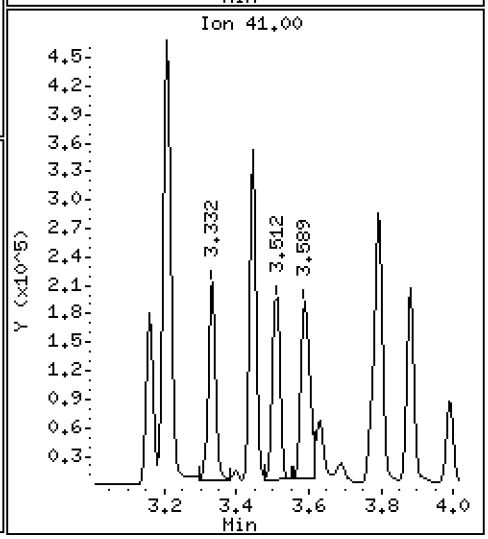












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 58

Date : 26-OCT-2016 08:14

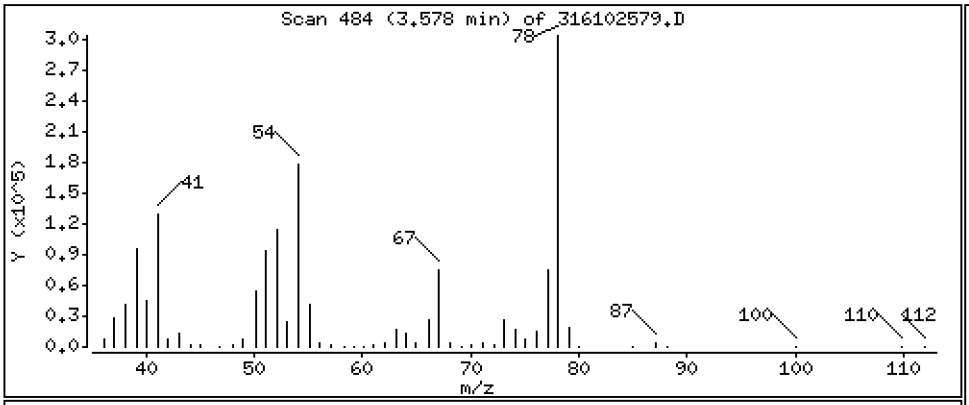
Client ID: Instrument: ms03.i

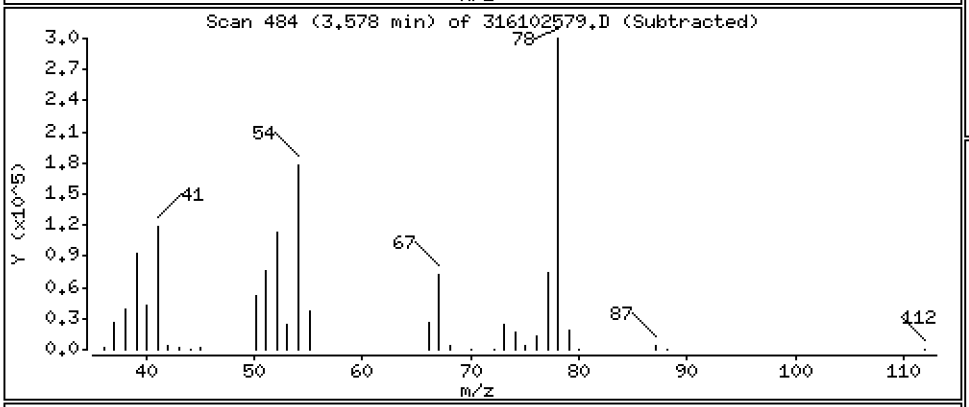
Sample Info: 1801;;1;2;4;;;

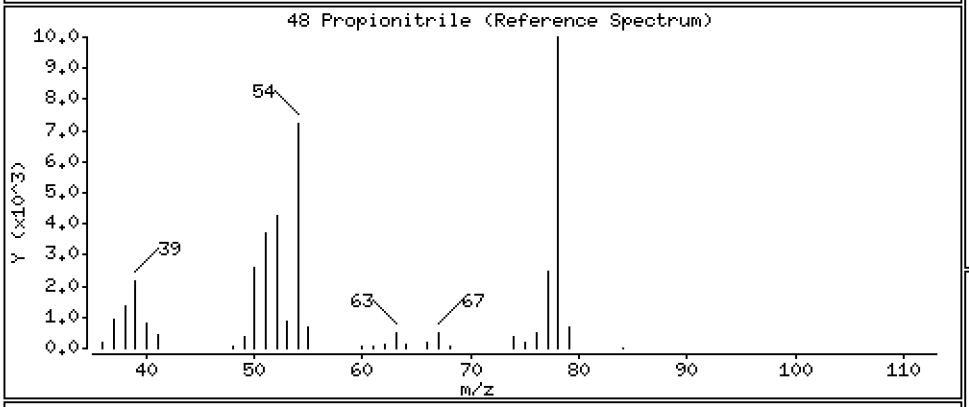
Purge Volume: 5.0 Operator: CJG

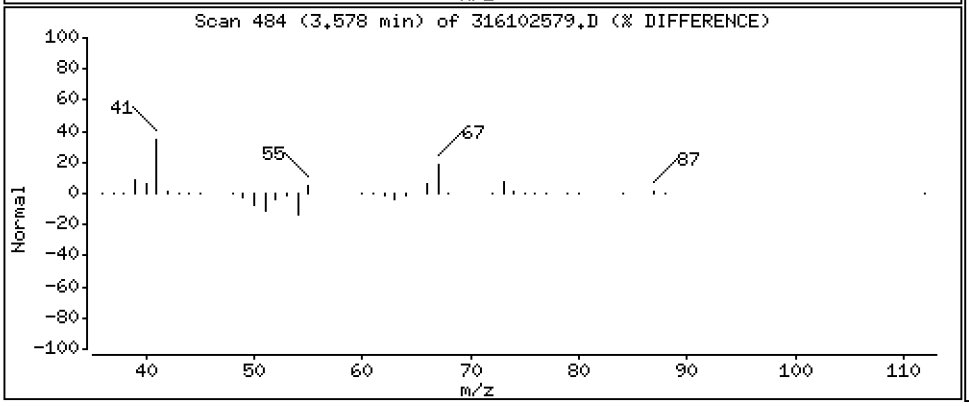
Column phase: DB-VRX Column diameter: 0.25

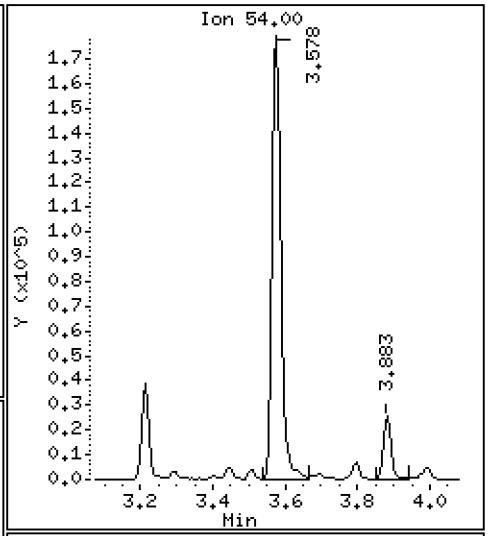
48 Propionitrile Concentration: 265.775 ug/L

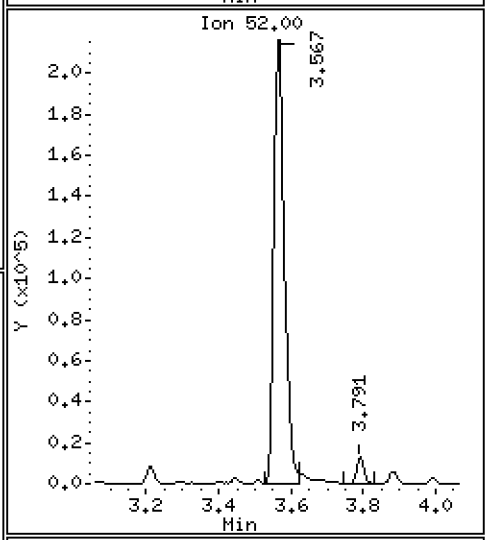


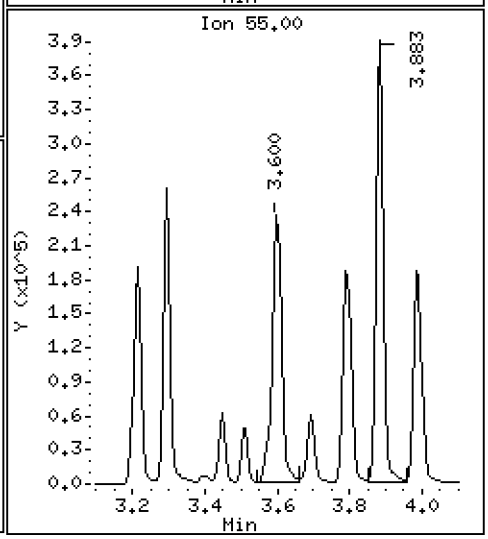












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 59

Date : 26-OCT-2016 08:14

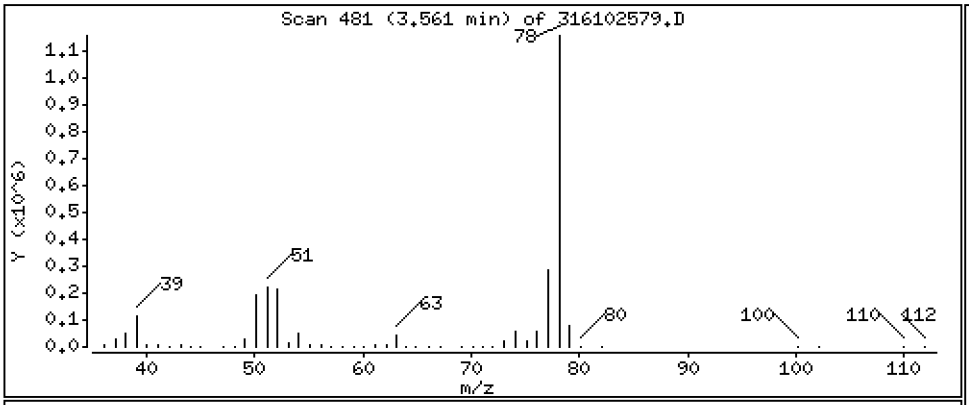
Client ID: Instrument: ms03.i

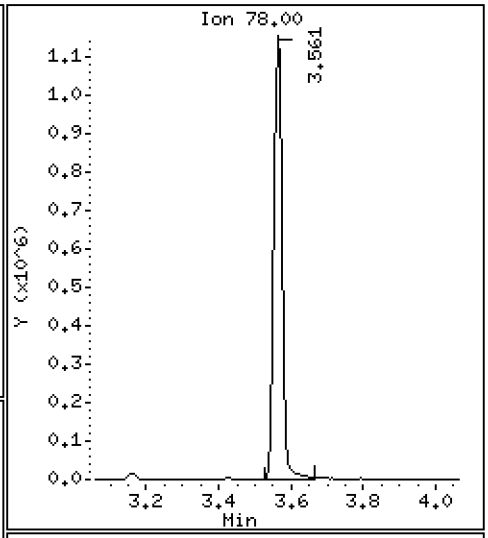
Sample Info: 1801;;1;2;4;;;

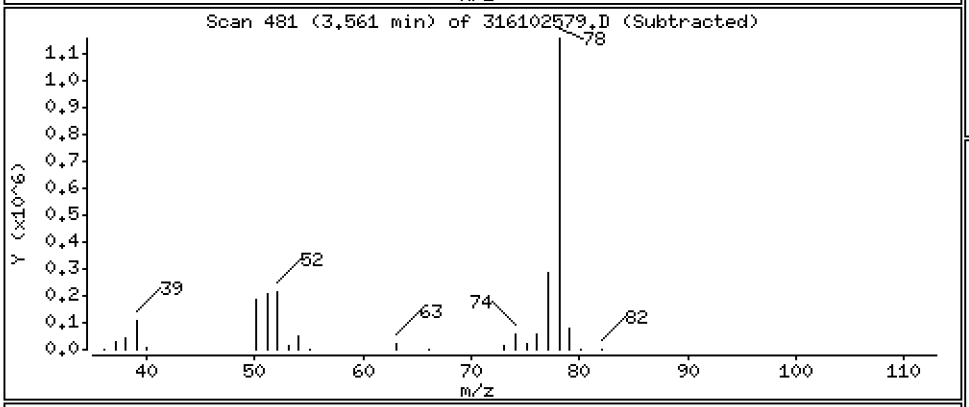
Purge Volume: 5.0 Operator: CJG

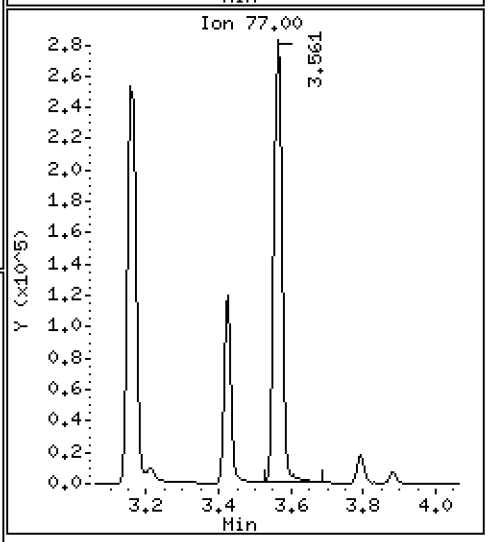
Column phase: DB-VRX Column diameter: 0.25

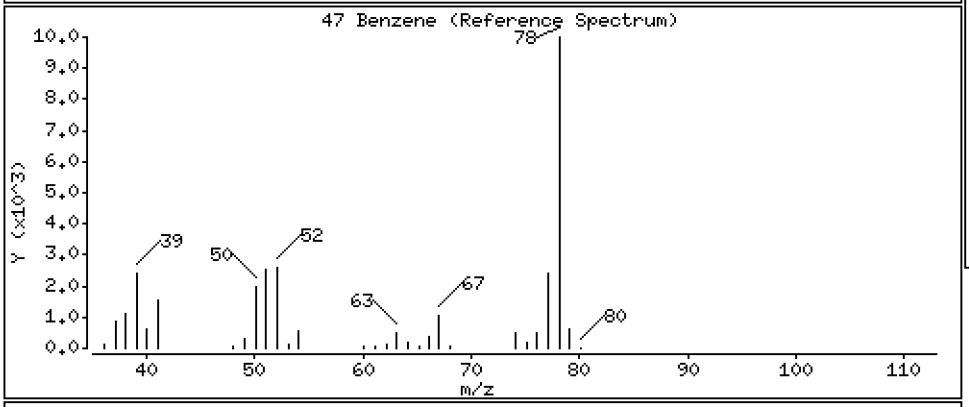
47 Benzene Concentration: 47.4406 ug/L

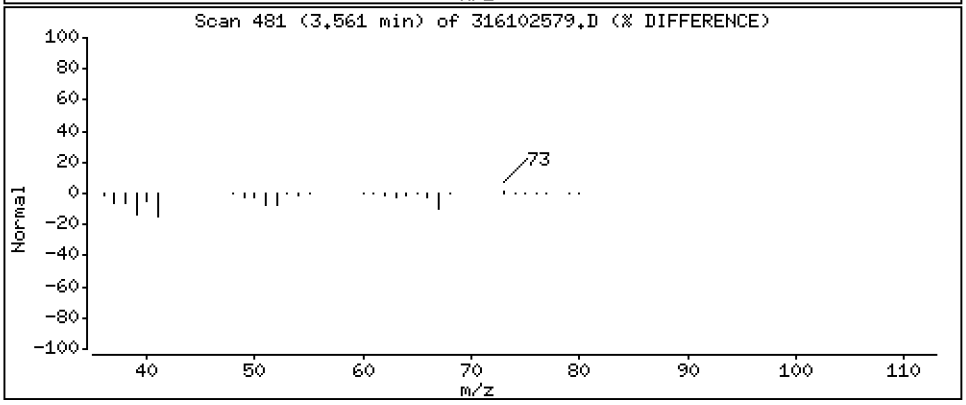












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 60

Date : 26-OCT-2016 08:14

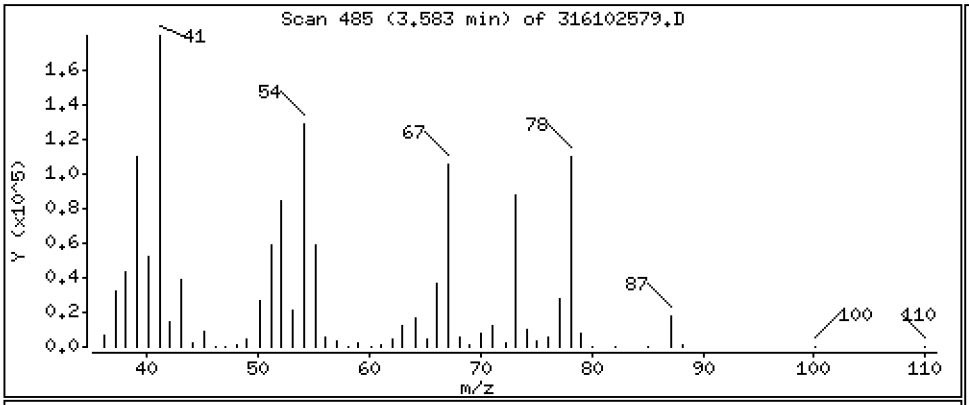
Client ID: Instrument: ms03.i

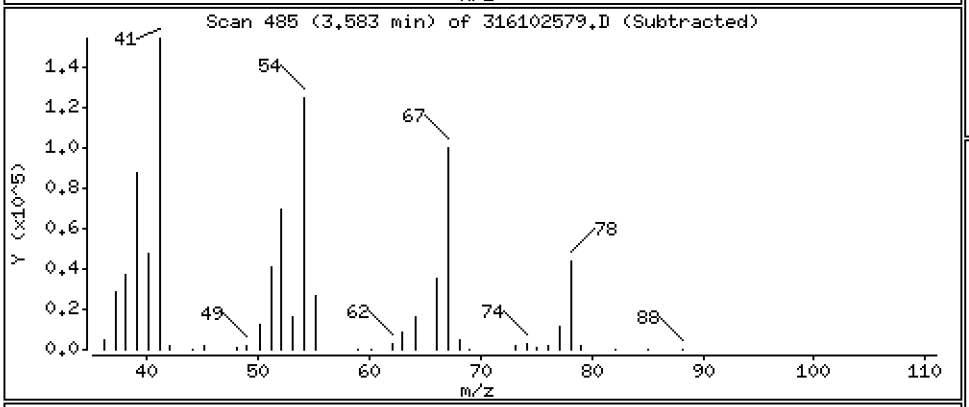
Sample Info: 1801;;1;2;4;;;

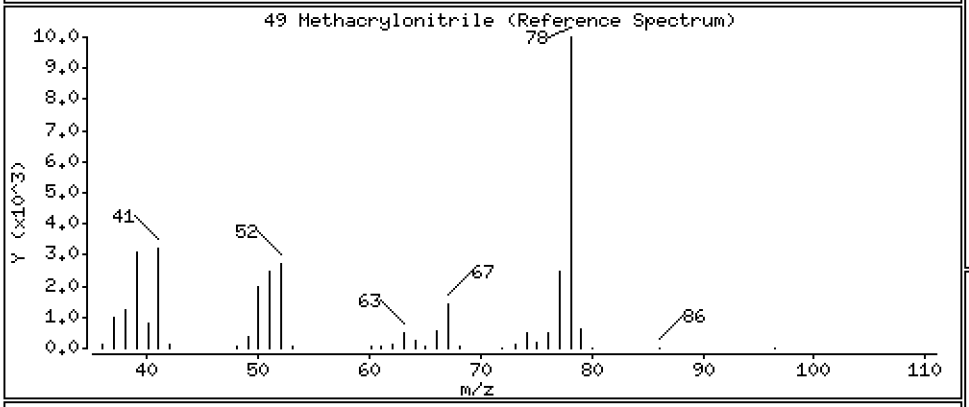
Purge Volume: 5.0 Operator: CJG

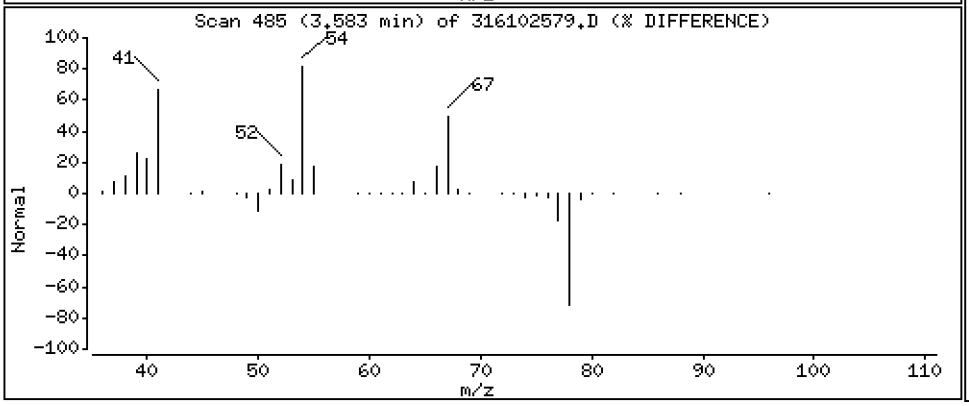
Column phase: DB-VRX Column diameter: 0.25

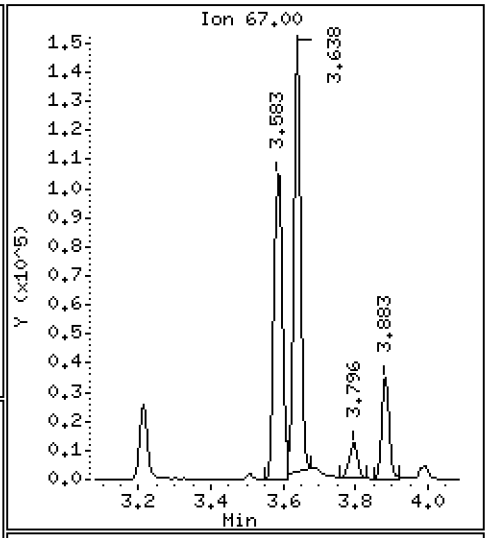
49 Methacrylonitrile Concentration: 48.9107 ug/L

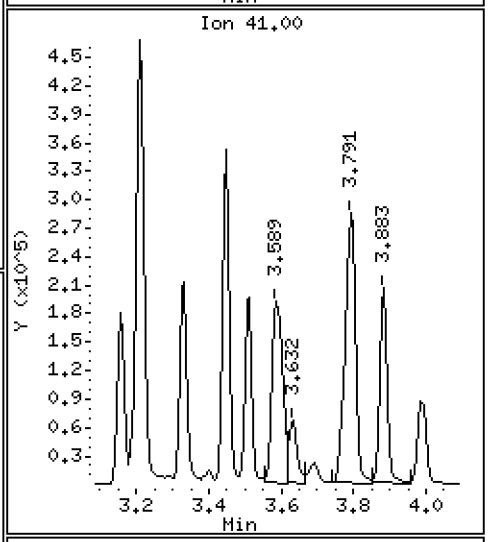


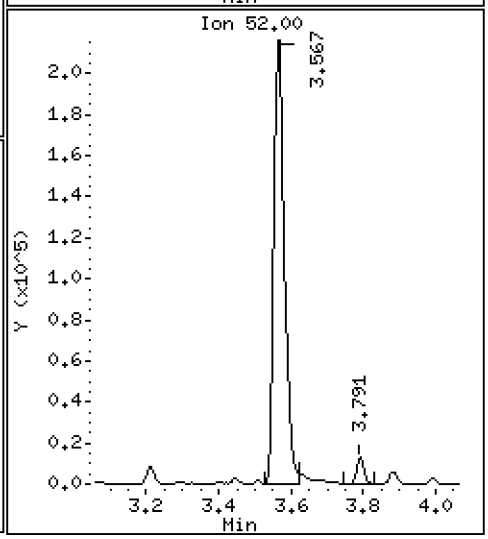












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 61

Date : 26-OCT-2016 08:14

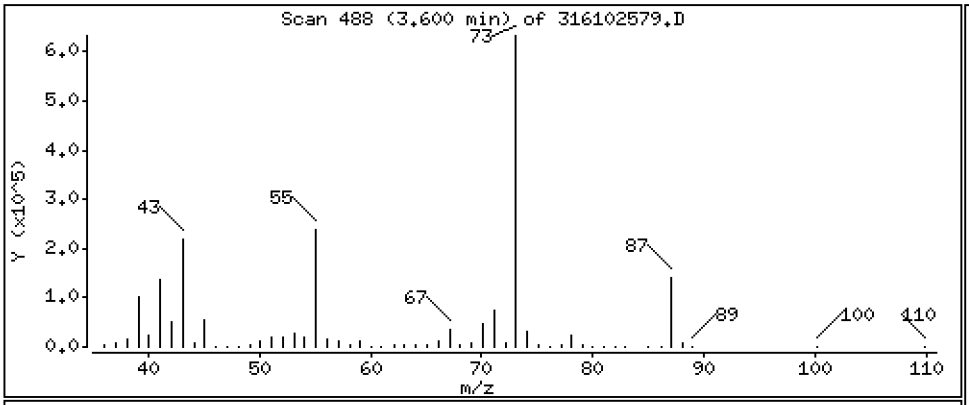
Client ID: Instrument: ms03.i

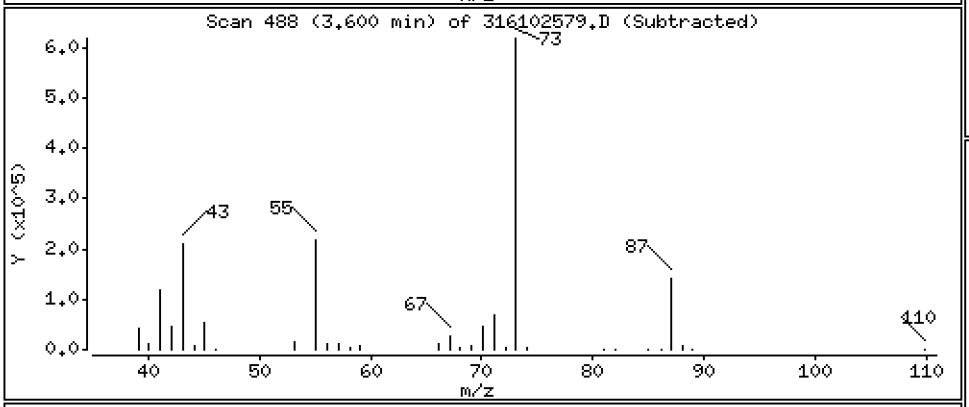
Sample Info: 1801;;1;2;4;;;

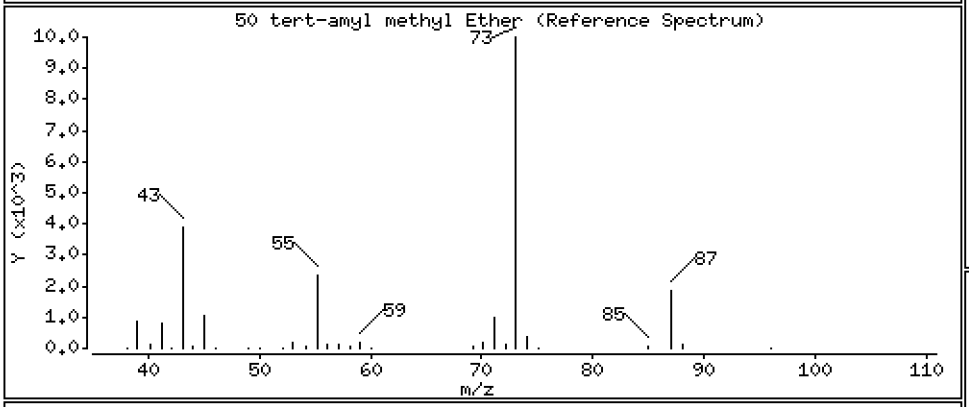
Purge Volume: 5.0 Operator: CJG

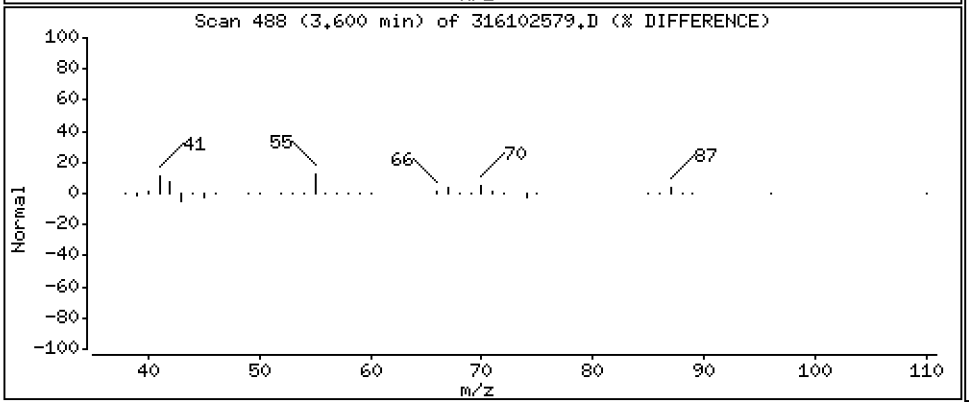
Column phase: DB-VRX Column diameter: 0.25

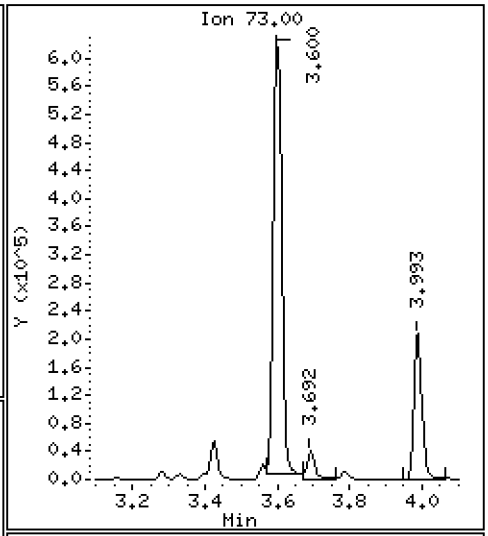
50 tert-amyl methyl Ether Concentration: 49.1054 ug/L

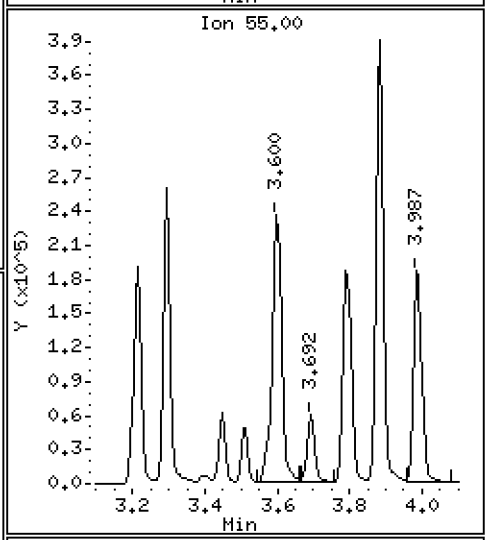


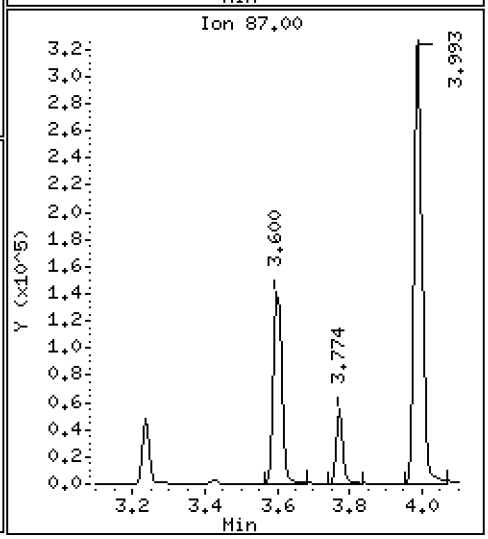












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 62

Date : 26-OCT-2016 08:14

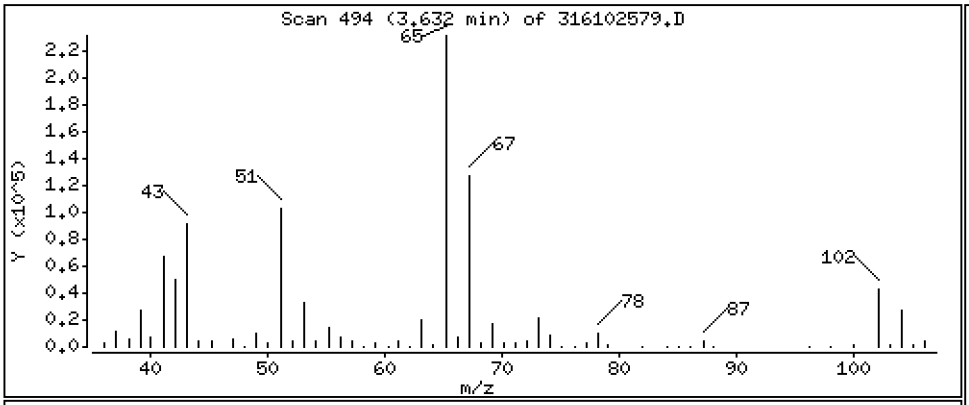
Client ID: Instrument: ms03.i

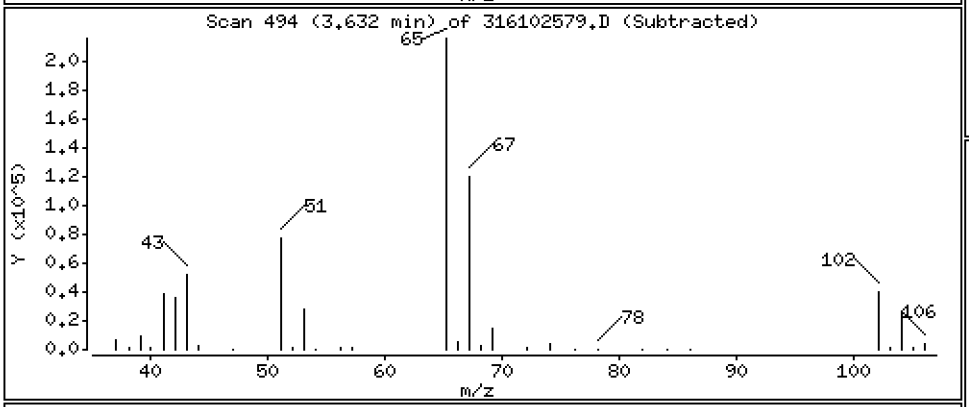
Sample Info: 1801;;1;2;4;;;

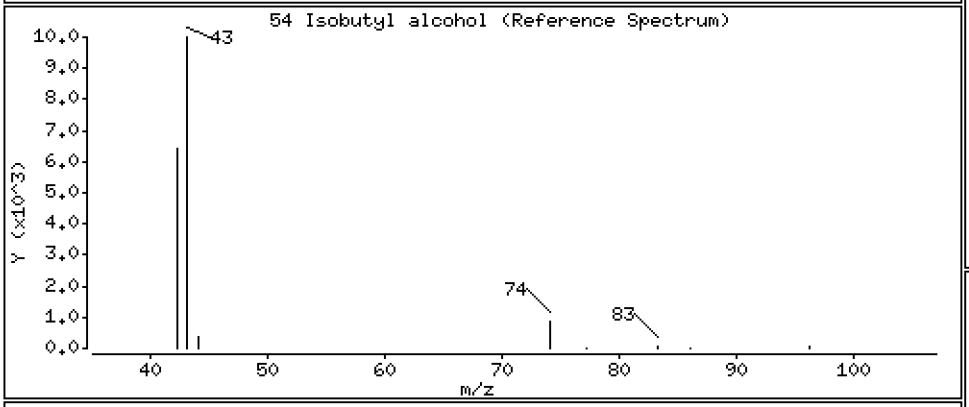
Purge Volume: 5.0 Operator: CJG

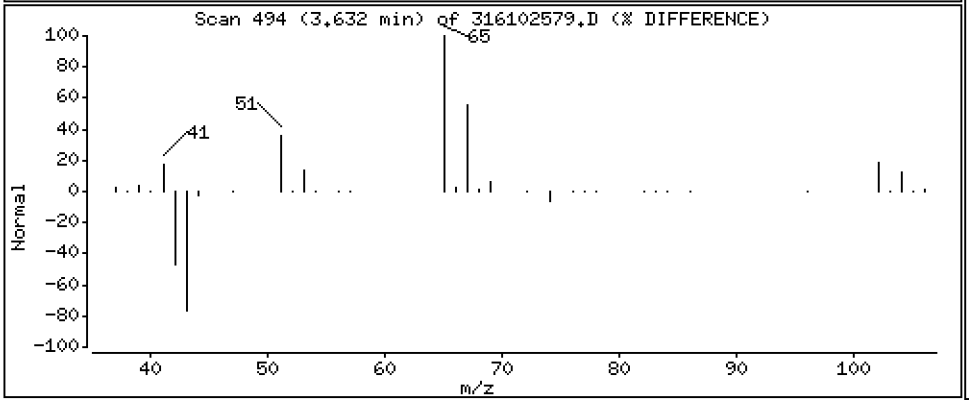
Column phase: DB-VRX Column diameter: 0.25

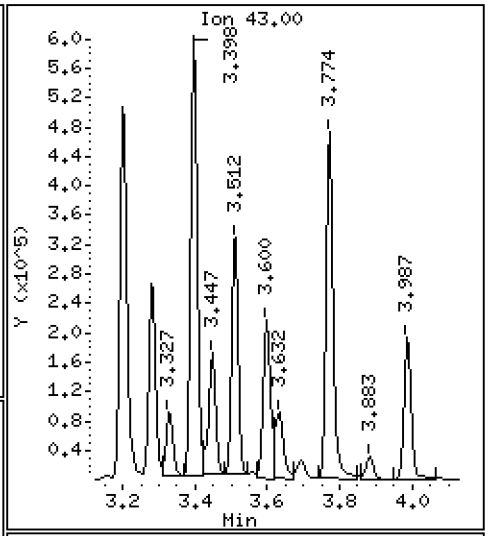
54 Isobutyl alcohol Concentration: 726.783 ug/L

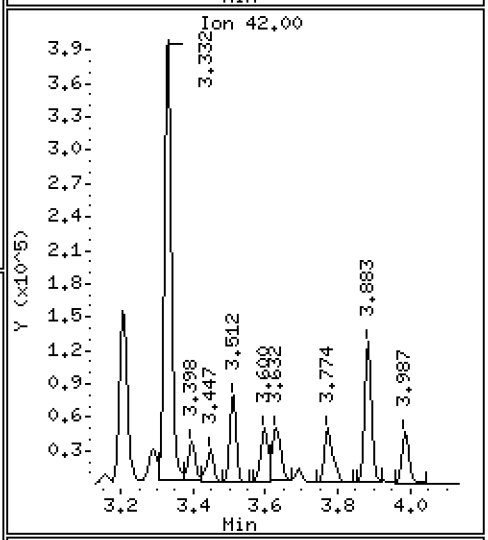


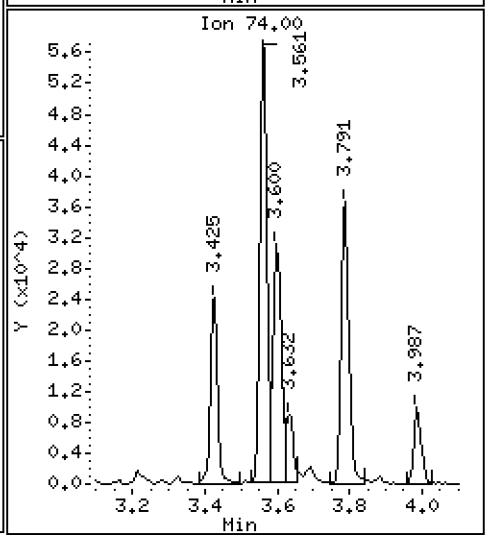












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 63

Date : 26-OCT-2016 08:14

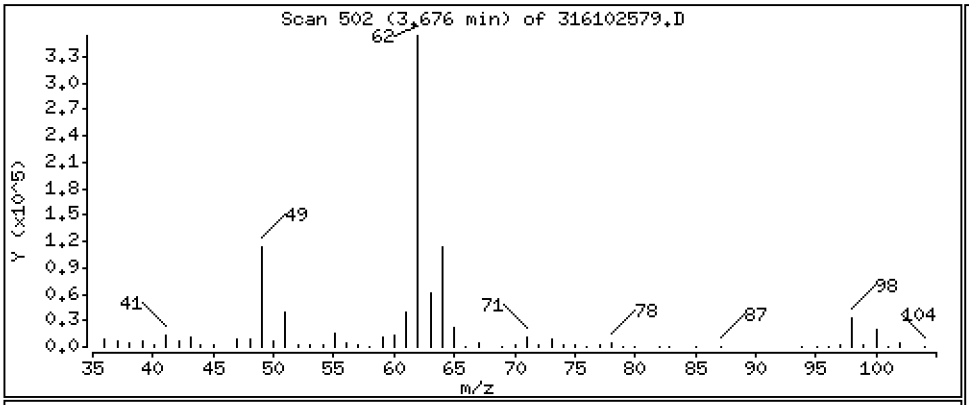
Client ID: Instrument: ms03.i

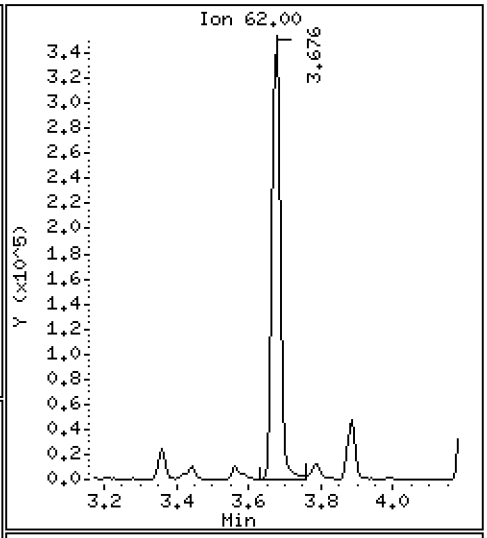
Sample Info: 1801;;1;2;4;;;

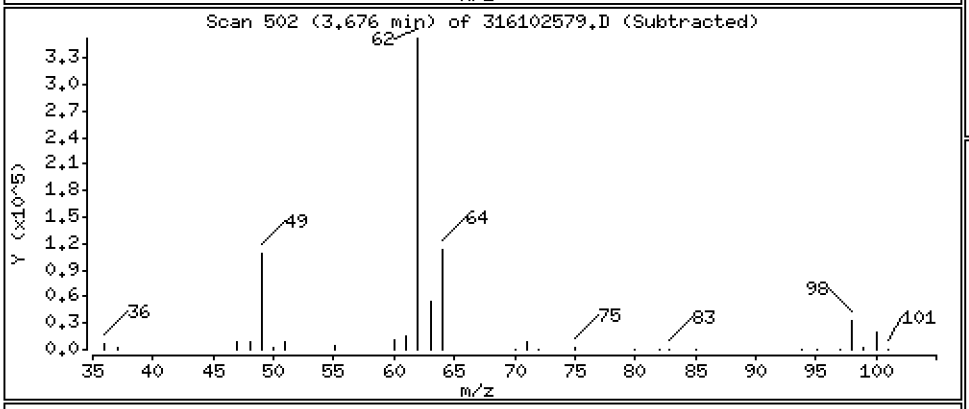
Purge Volume: 5.0 Operator: CJG

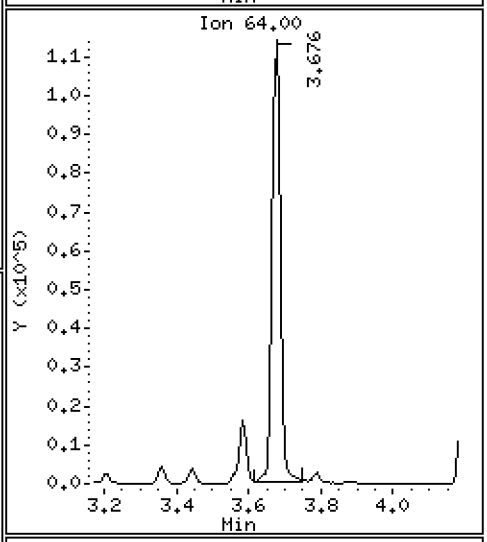
Column phase: DB-VRX Column diameter: 0.25

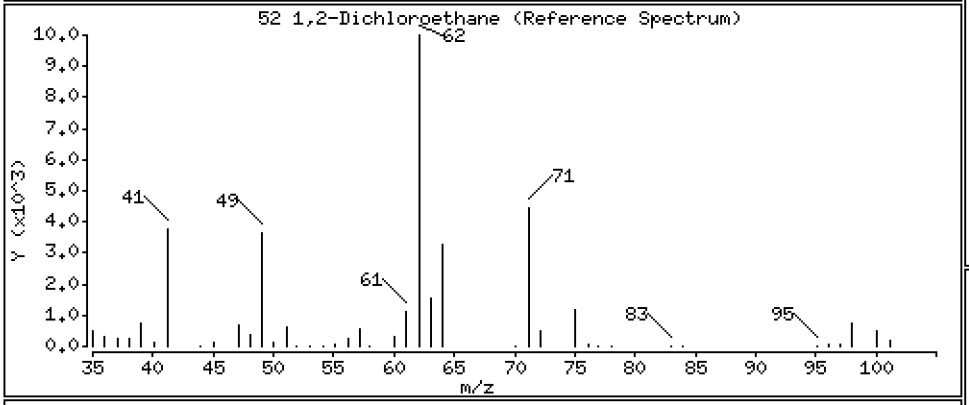
52 1,2-Dichloroethane Concentration: 48.5257 ug/L

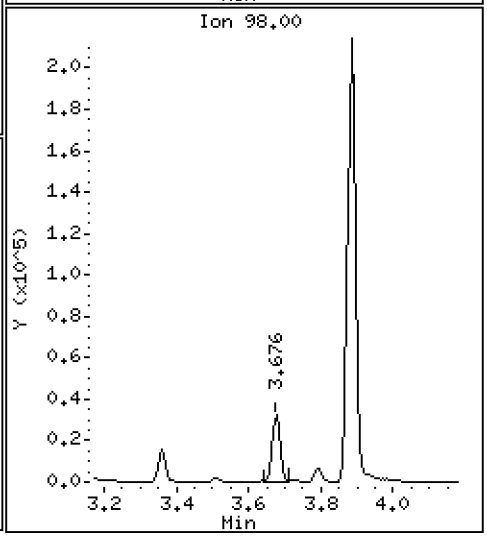


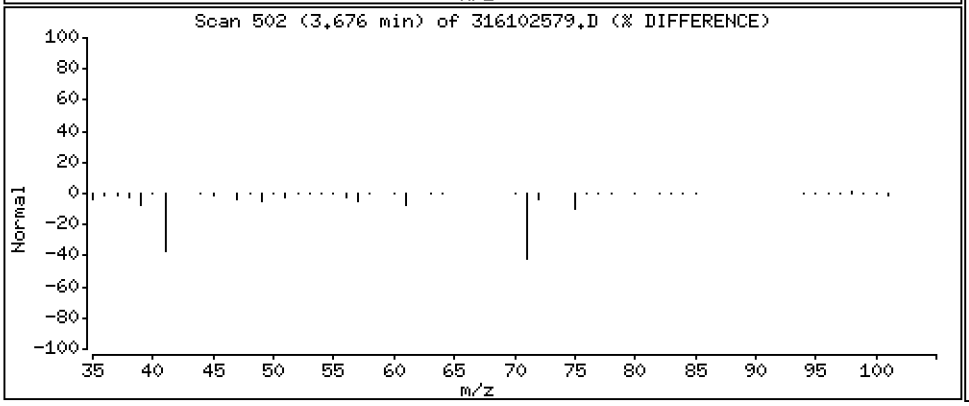












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 64

Date : 26-OCT-2016 08:14

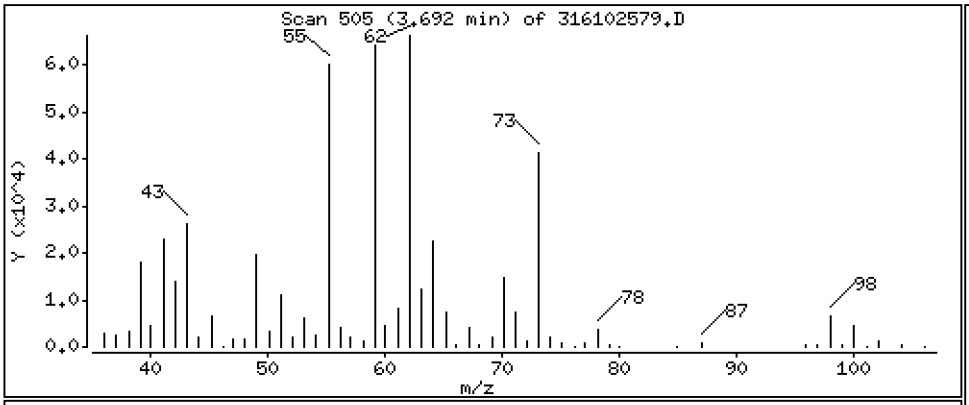
Client ID: Instrument: ms03.i

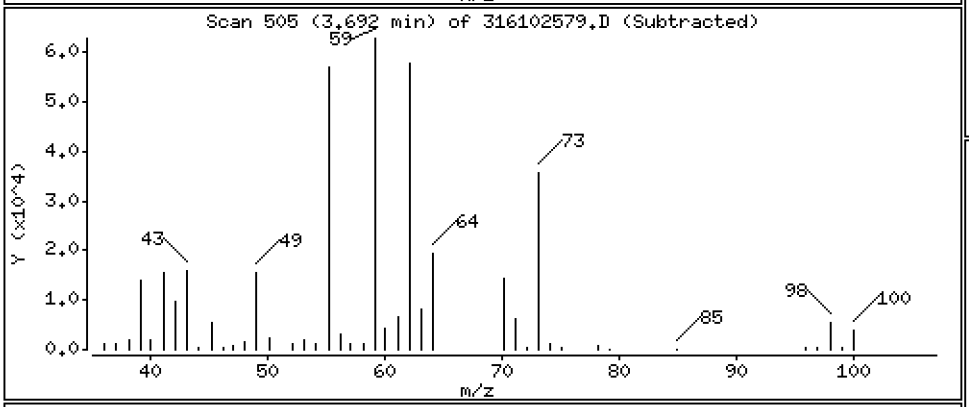
Sample Info: 1801;;1;2;4;;;

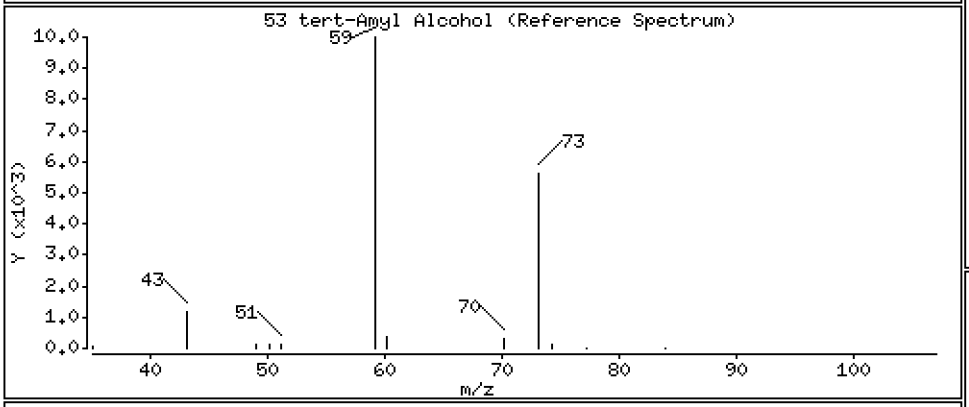
Purge Volume: 5.0 Operator: CJG

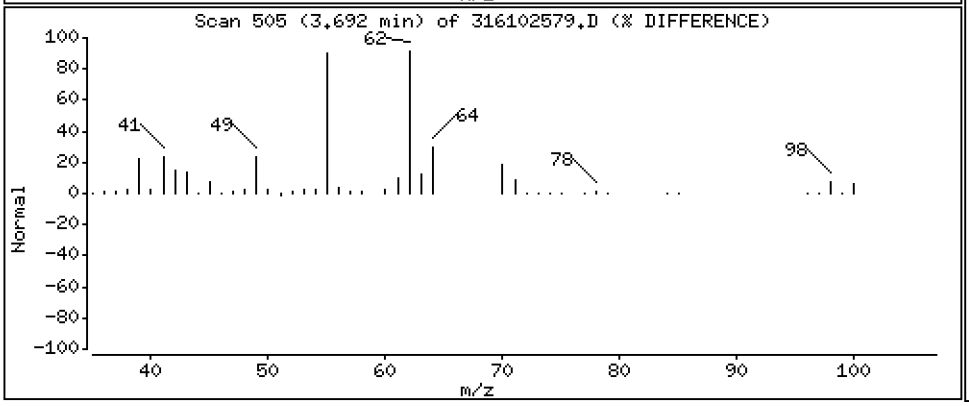
Column phase: DB-VRX Column diameter: 0.25

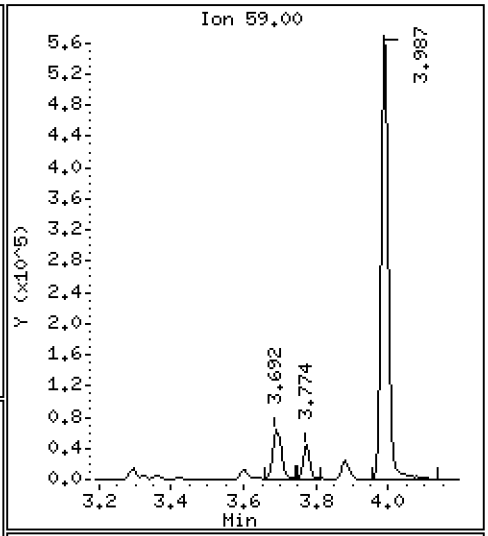
53 tert-Amyl Alcohol Concentration: 257.370 ug/L

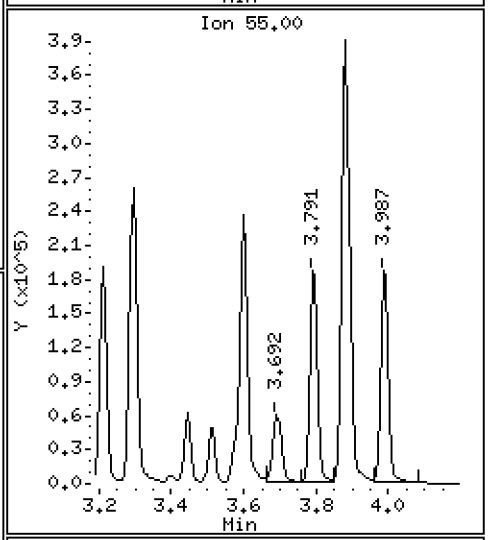


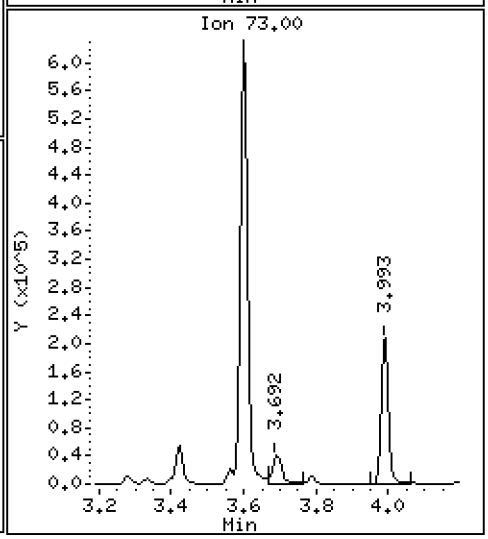












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 65

Date : 26-OCT-2016 08:14

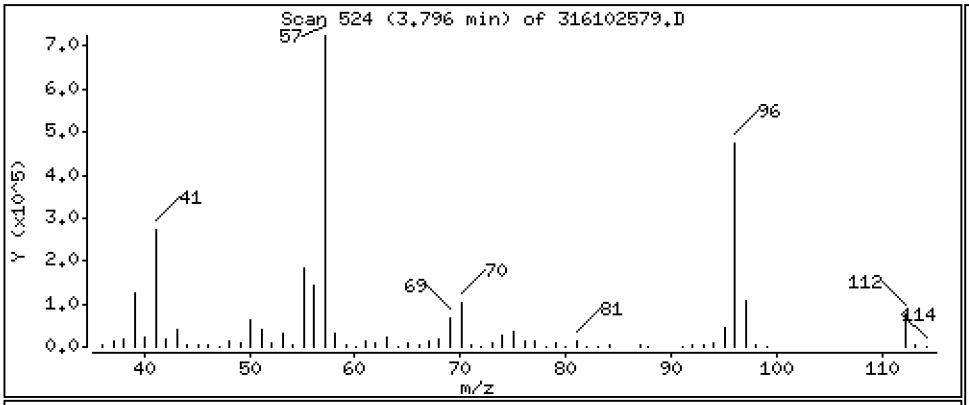
Client ID: Instrument: ms03.i

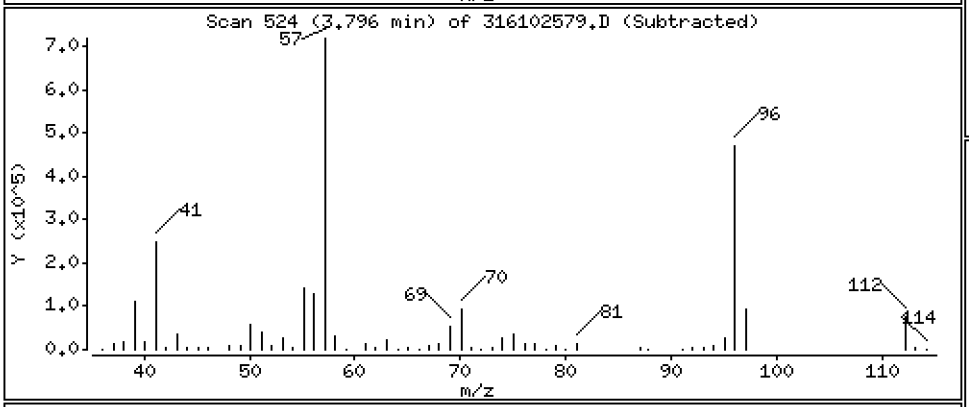
Sample Info: 1801;;1;2;4;;;

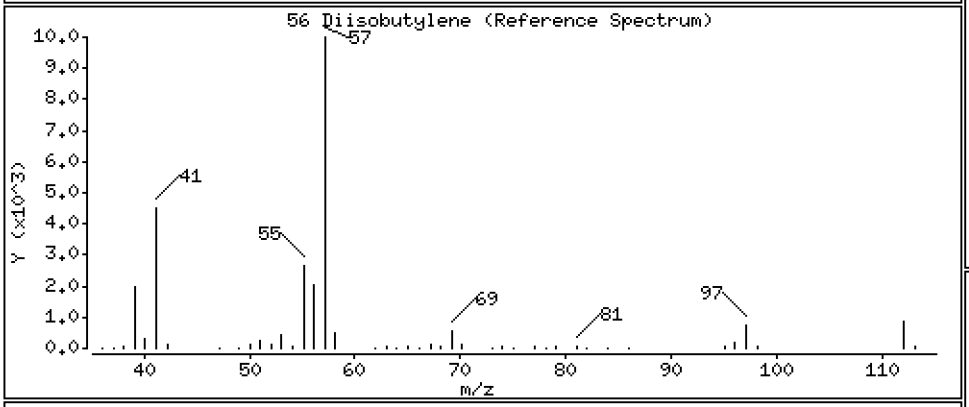
Purge Volume: 5.0 Operator: CJG

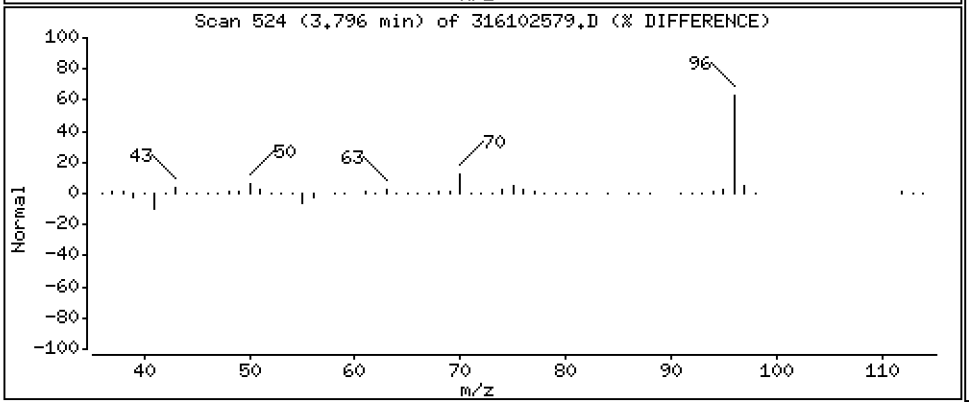
Column phase: DB-VRX Column diameter: 0.25

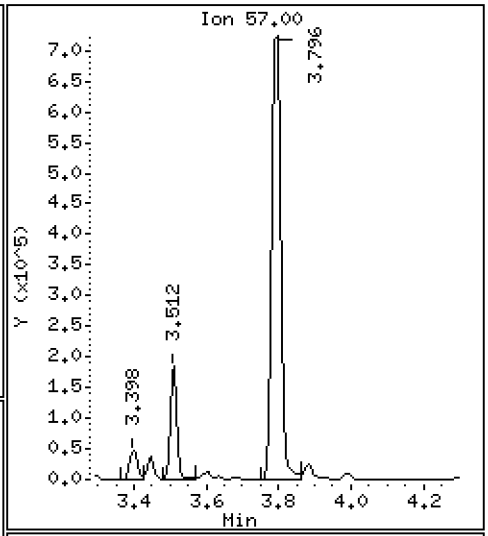
56 Diisobutylene Concentration: 57.3622 ug/L

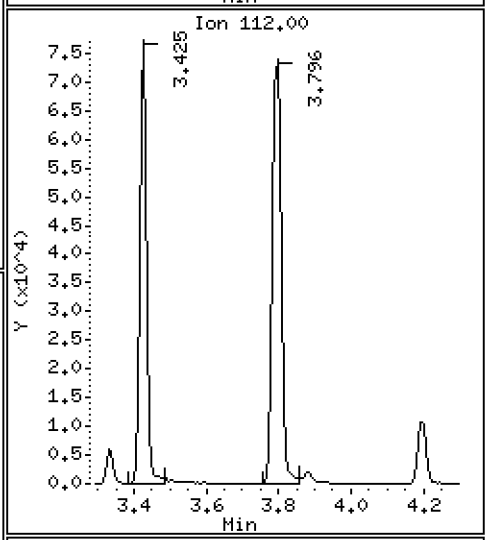


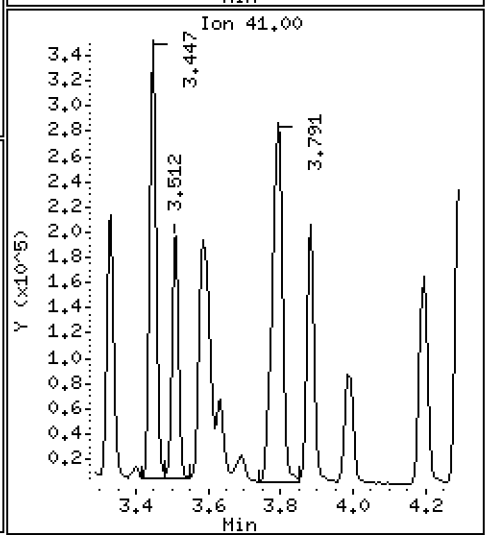












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 66

Date : 26-OCT-2016 08:14

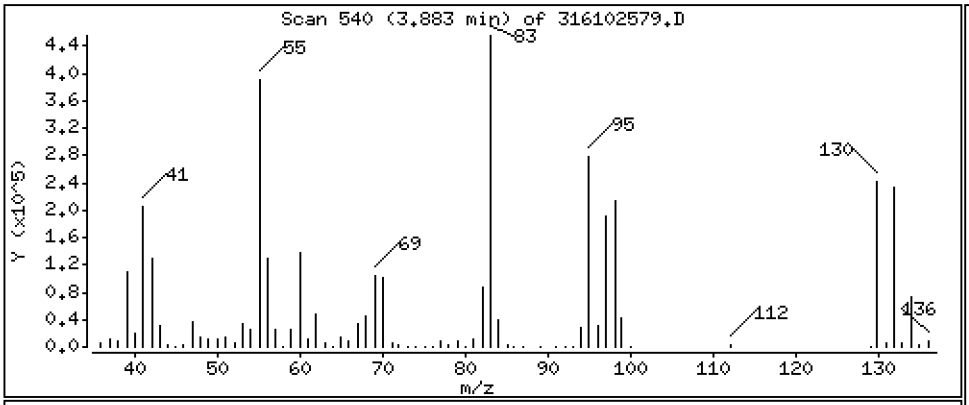
Client ID: Instrument: ms03.i

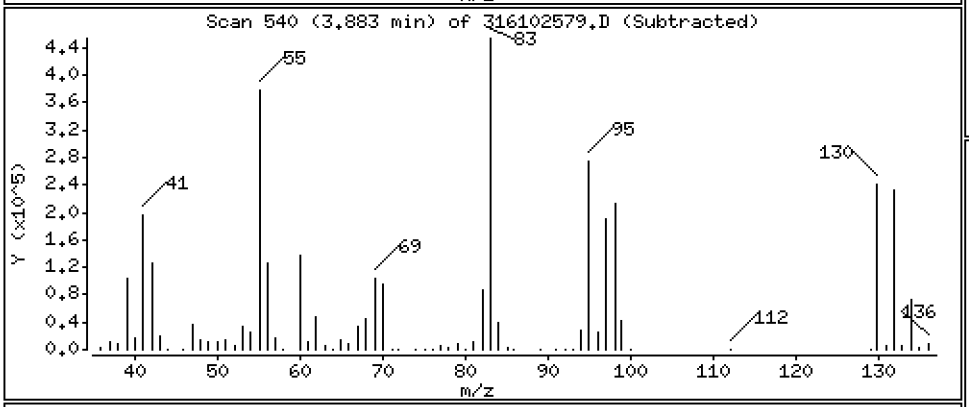
Sample Info: 1801;;1;2;4;;;

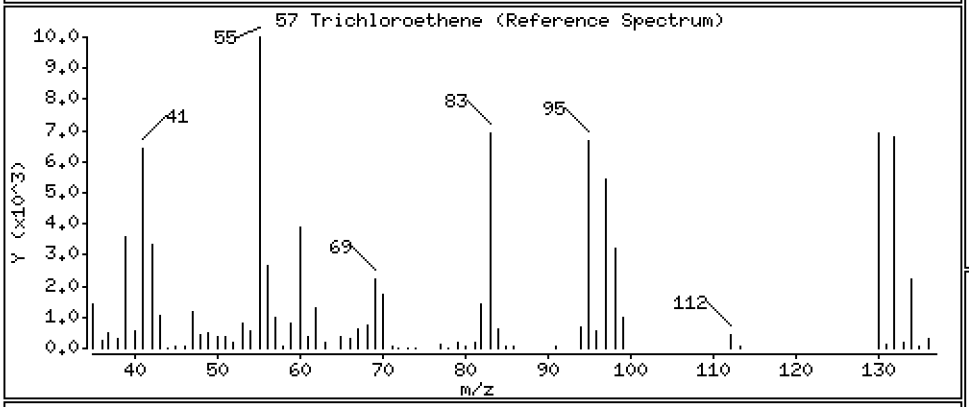
Purge Volume: 5.0 Operator: CJG

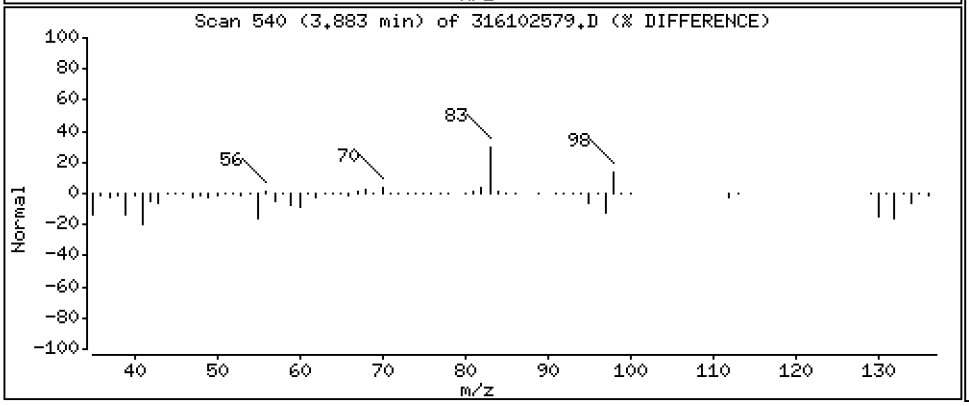
Column phase: DB-VRX Column diameter: 0.25

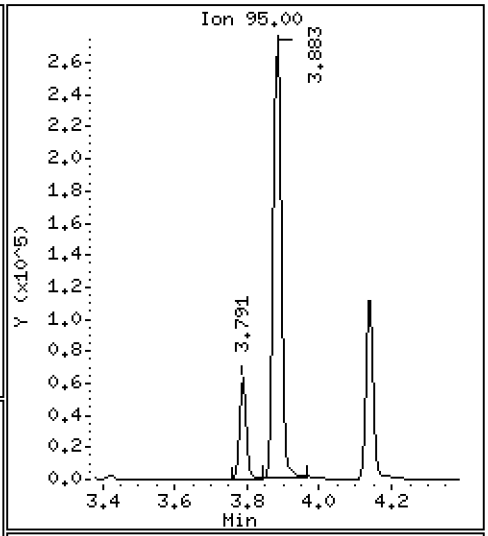
57 Trichloroethene Concentration: 45.3846 ug/L

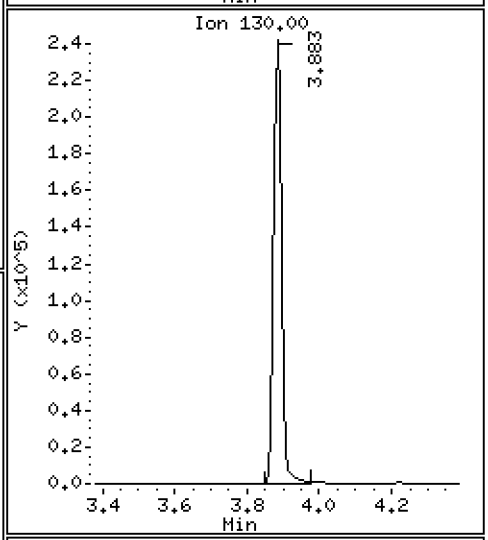


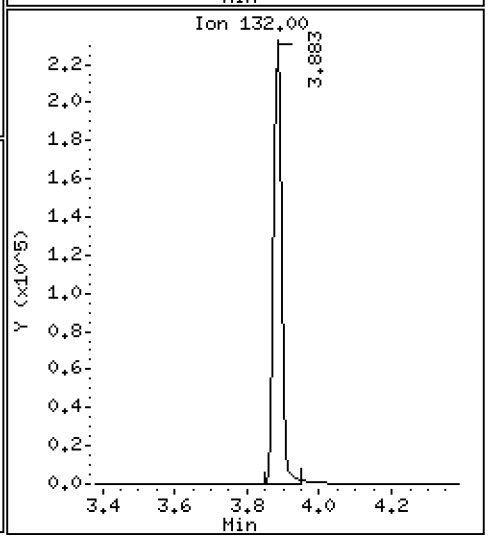












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 67

Date : 26-OCT-2016 08:14

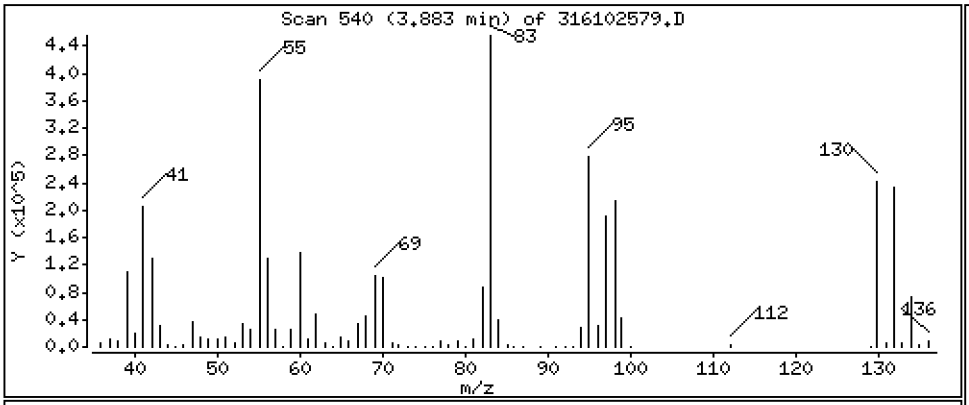
Client ID: Instrument: ms03.i

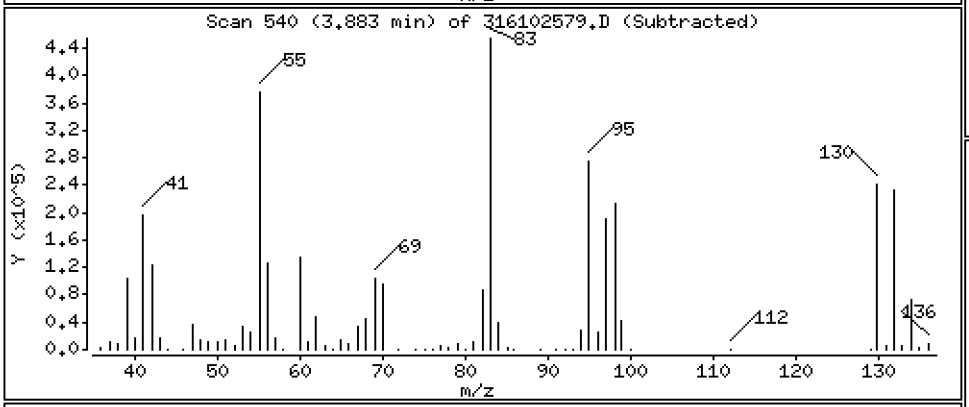
Sample Info: 1801;;1;2;4;;;

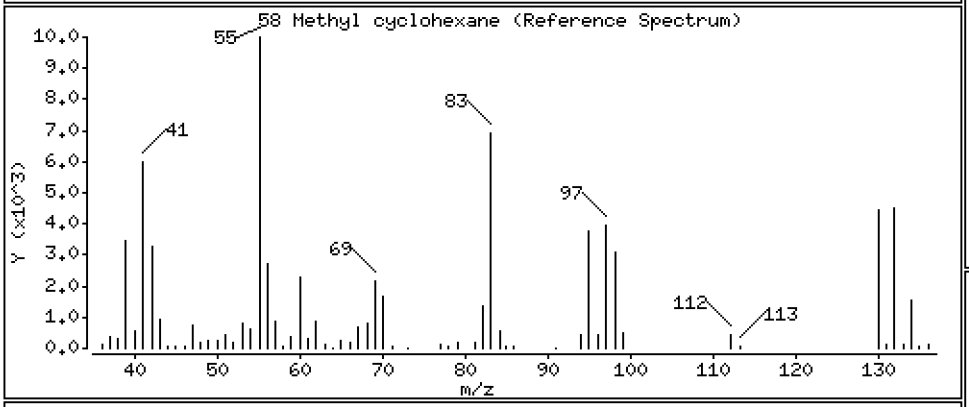
Purge Volume: 5.0 Operator: CJG

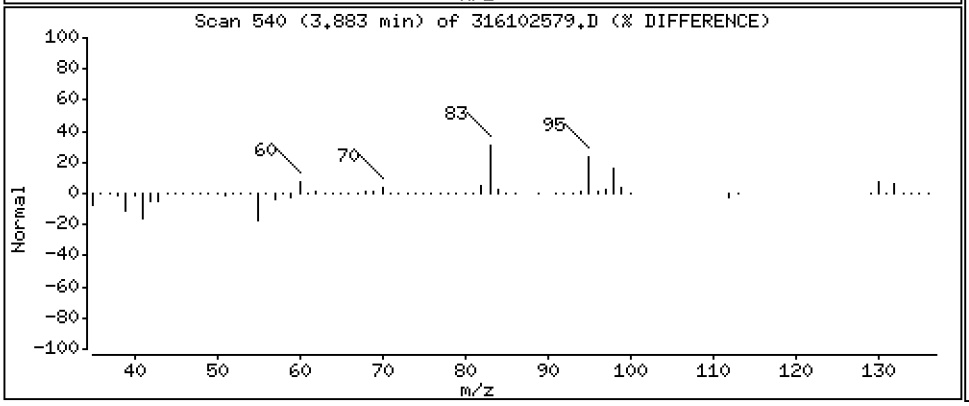
Column phase: DB-VRX Column diameter: 0.25

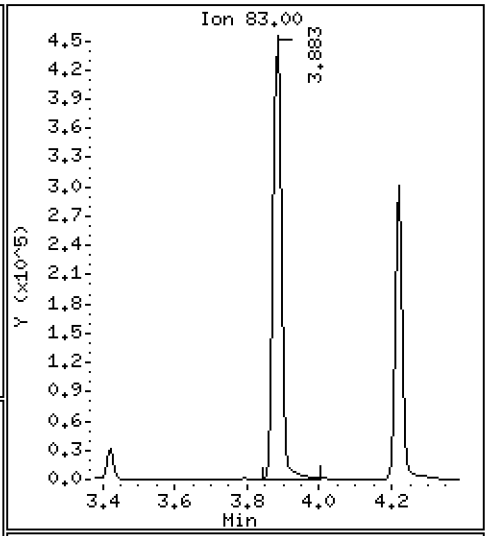
58 Methyl cyclohexane Concentration: 47.7218 ug/L

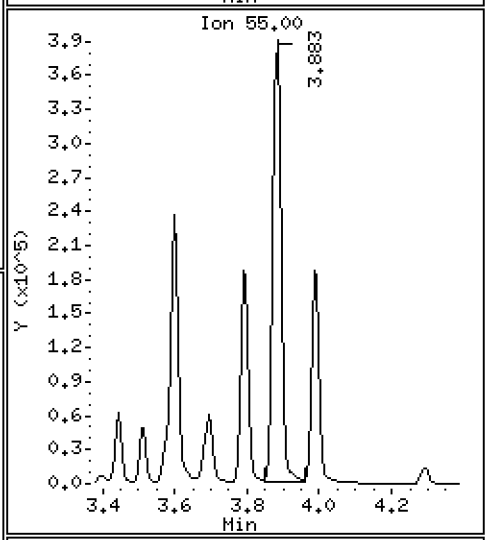


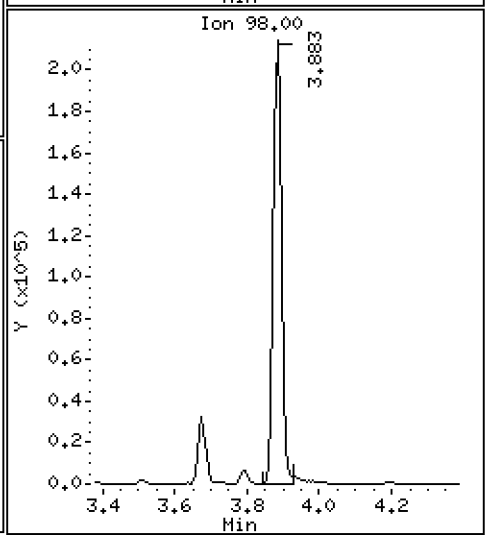












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 68

Date : 26-OCT-2016 08:14

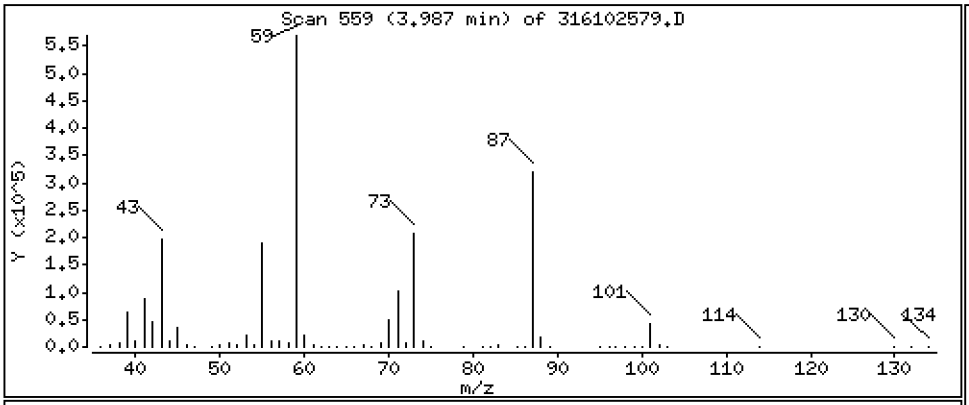
Client ID: Instrument: ms03.i

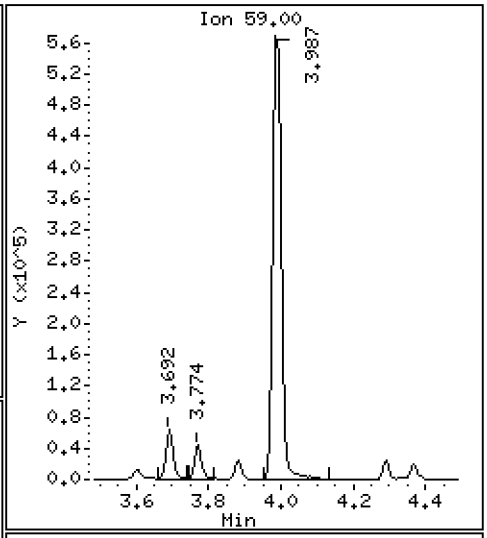
Sample Info: 1801;;1;2;4;;;

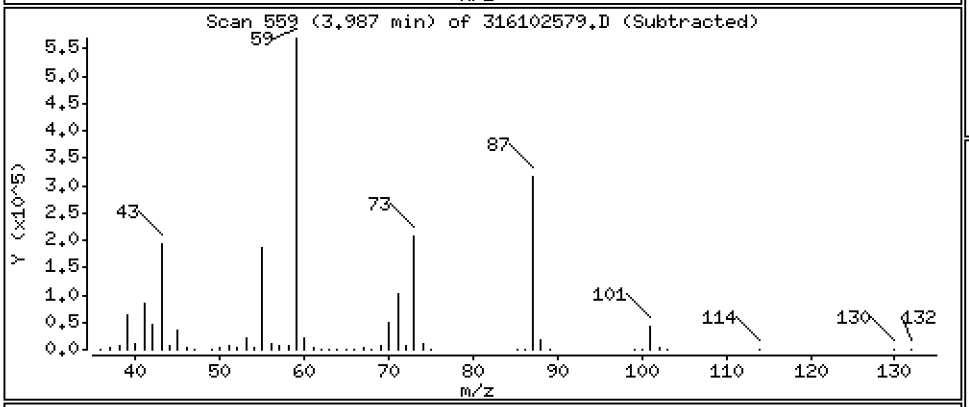
Purge Volume: 5.0 Operator: CJG

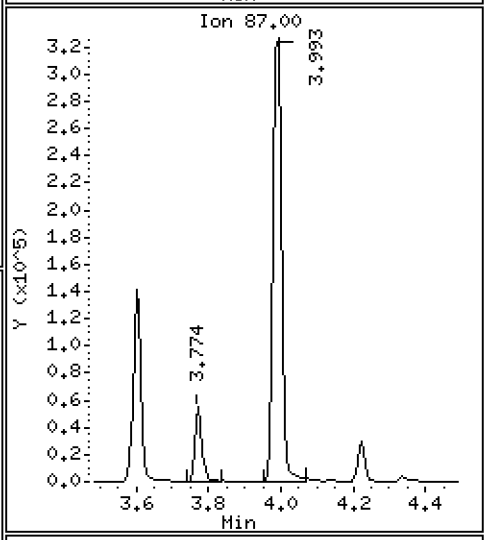
Column phase: DB-VRX Column diameter: 0.25

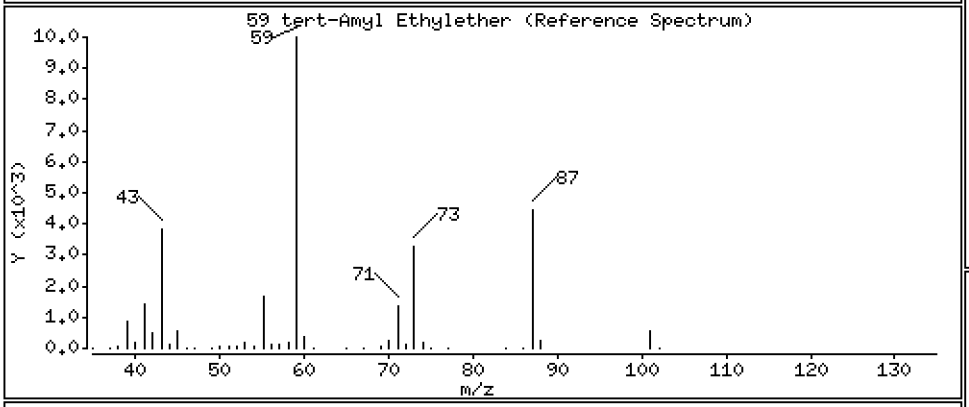
59 tert-Amyl Ethylether Concentration: 51.6128 ug/L

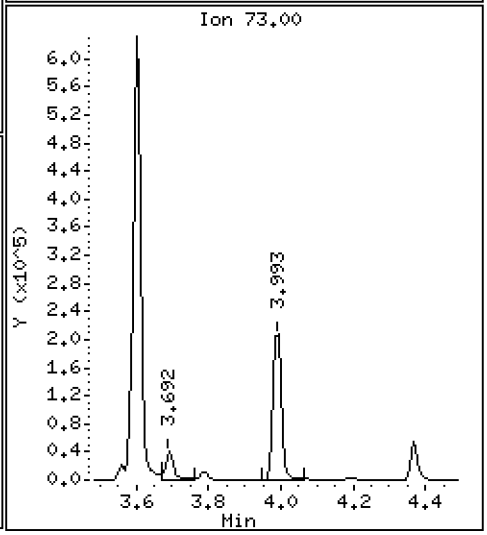


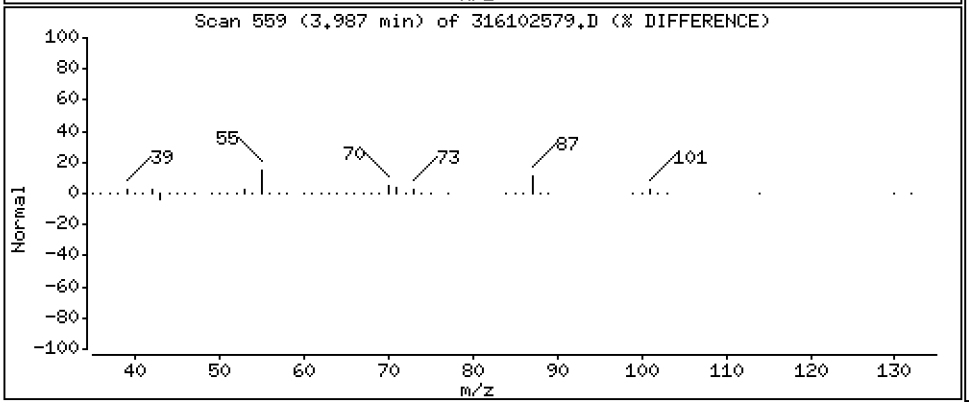












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 69

Date : 26-OCT-2016 08:14

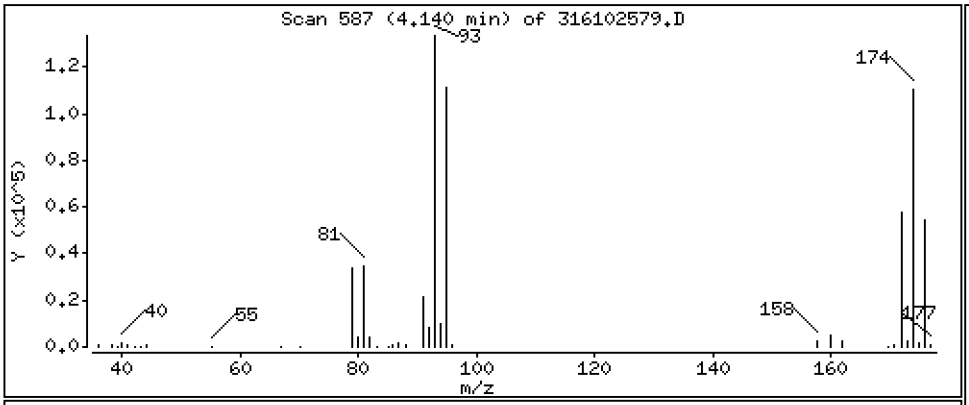
Client ID: Instrument: ms03.i

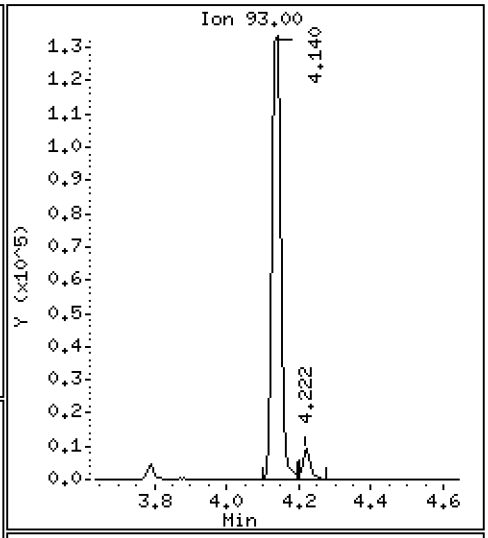
Sample Info: 1801;;1;2;4;;;

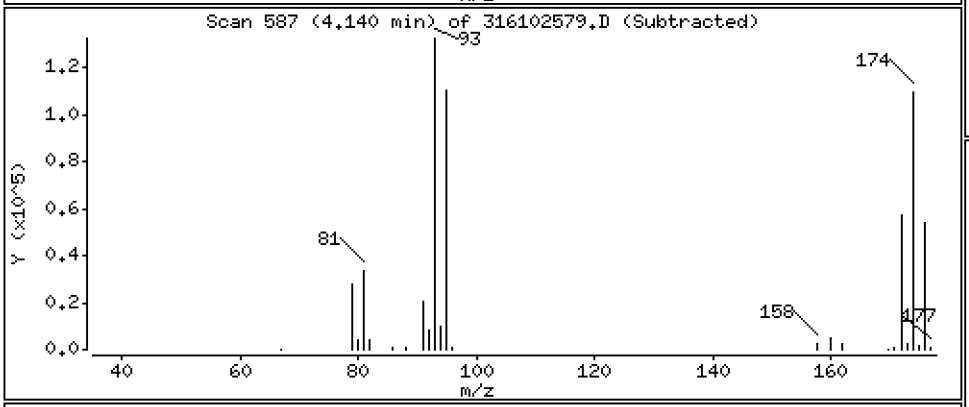
Purge Volume: 5.0 Operator: CJG

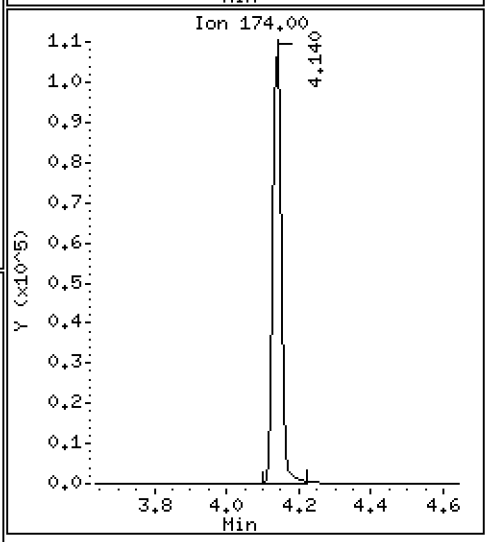
Column phase: DB-VRX Column diameter: 0.25

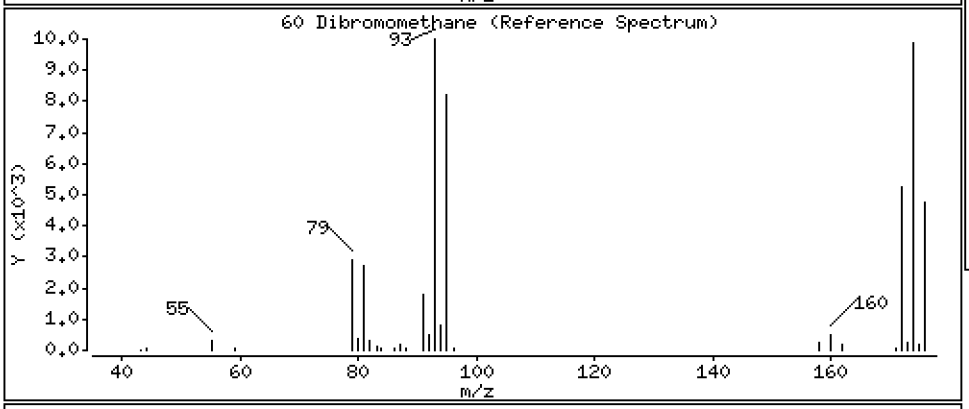
60 Dibromomethane Concentration: 47.2152 ug/L

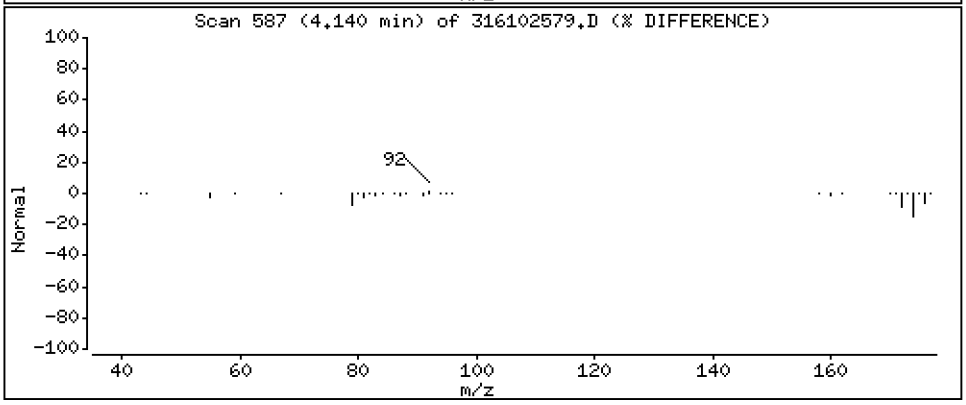












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 70

Date : 26-OCT-2016 08:14

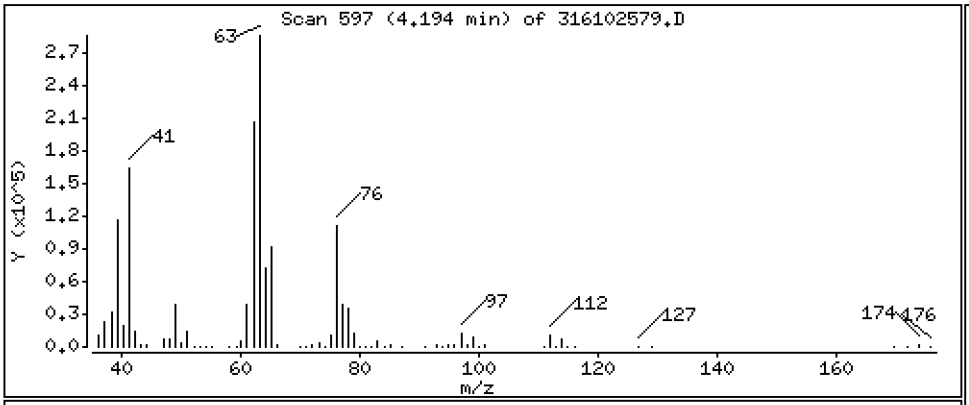
Client ID: Instrument: ms03.i

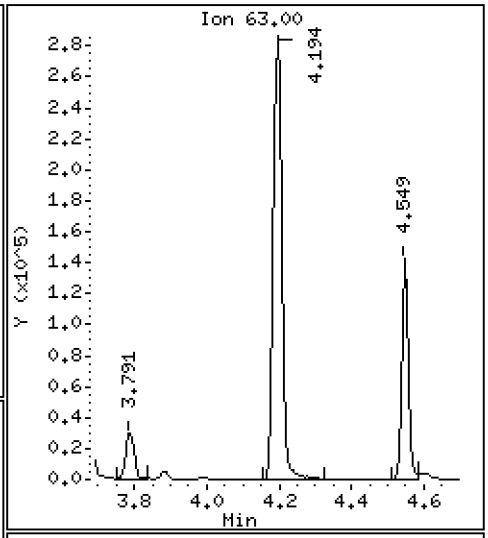
Sample Info: 1801;;1;2;4;;;

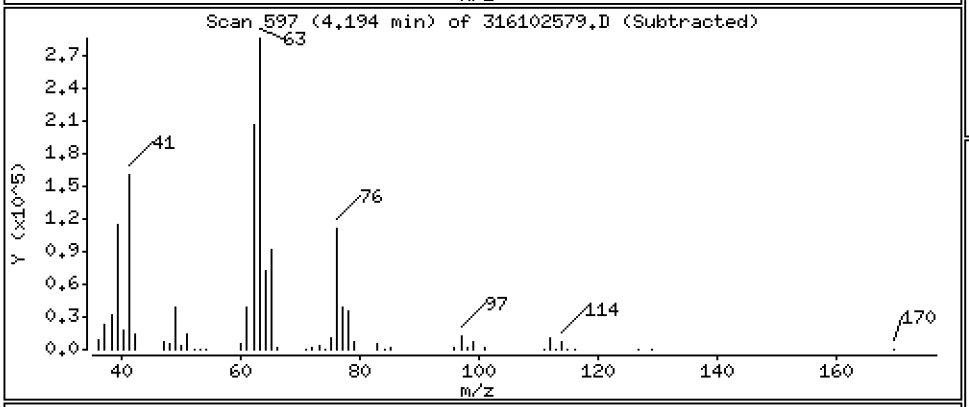
Purge Volume: 5.0 Operator: CJG

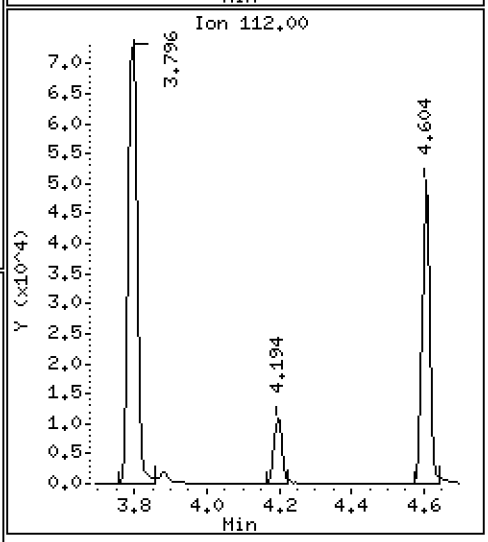
Column phase: DB-VRX Column diameter: 0.25

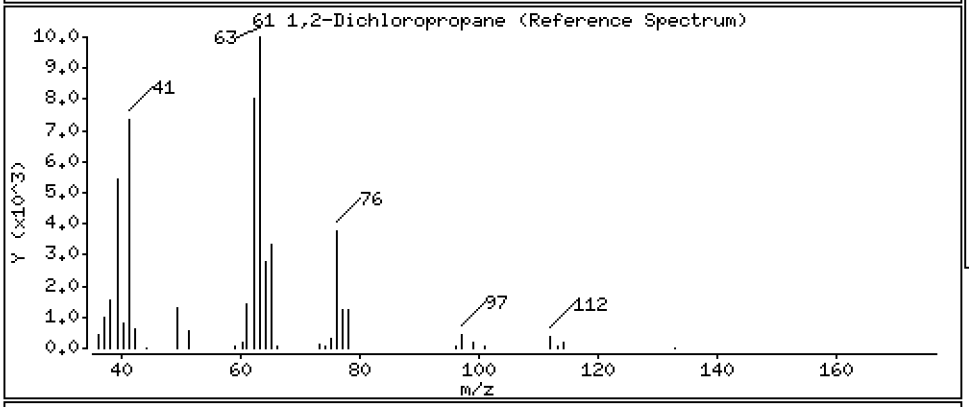
61 1,2-Dichloropropane Concentration: 49.9446 ug/L

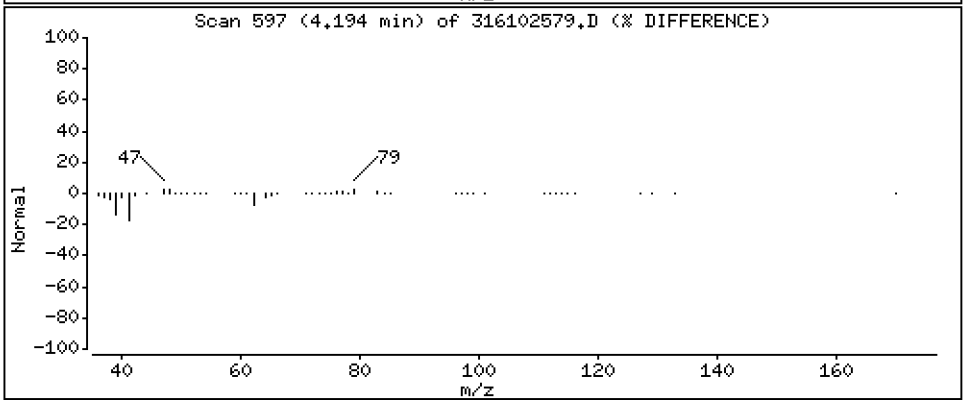












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 71

Date : 26-OCT-2016 08:14

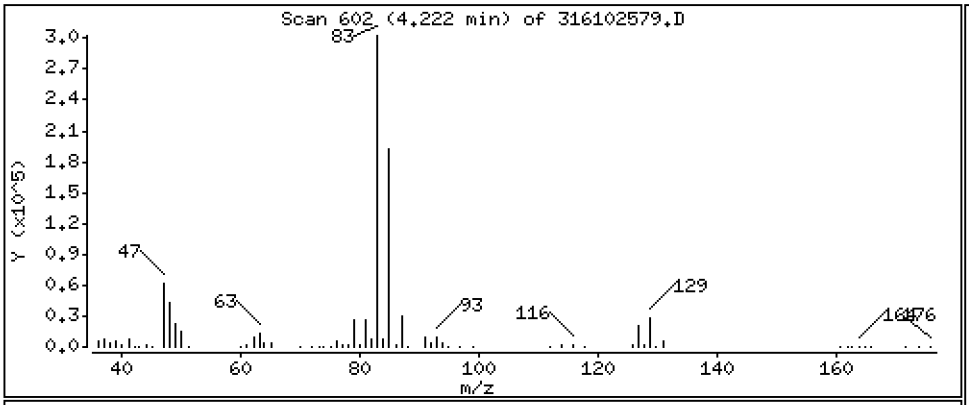
Client ID: Instrument: ms03.i

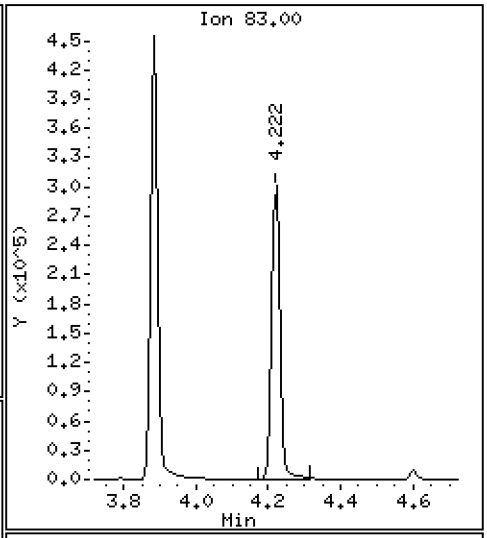
Sample Info: 1801;;1;2;4;;;

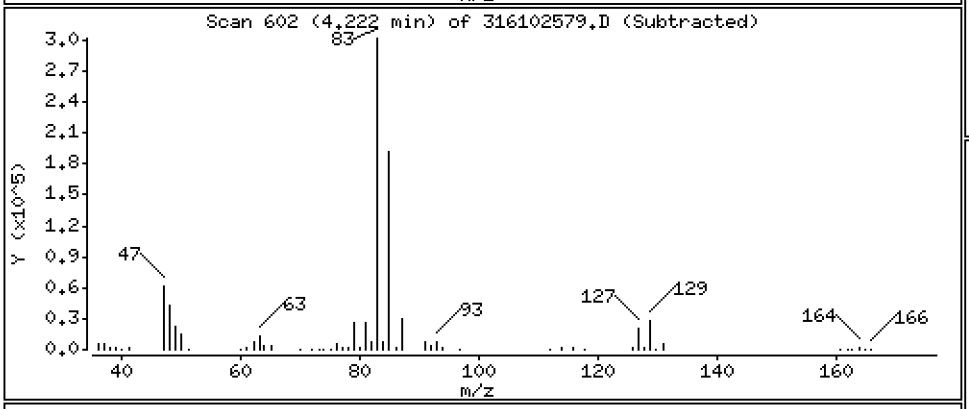
Purge Volume: 5.0 Operator: CJG

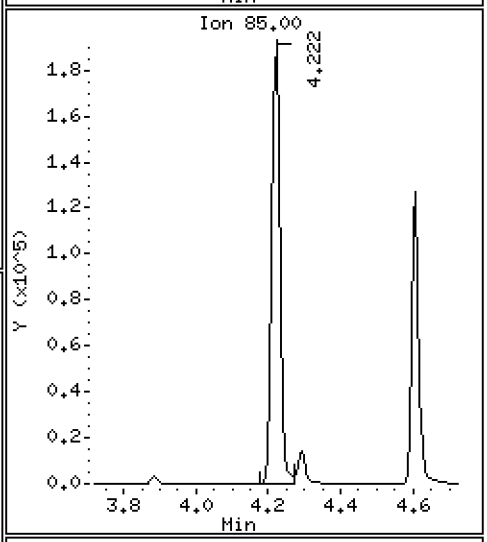
Column phase: DB-VRX Column diameter: 0.25

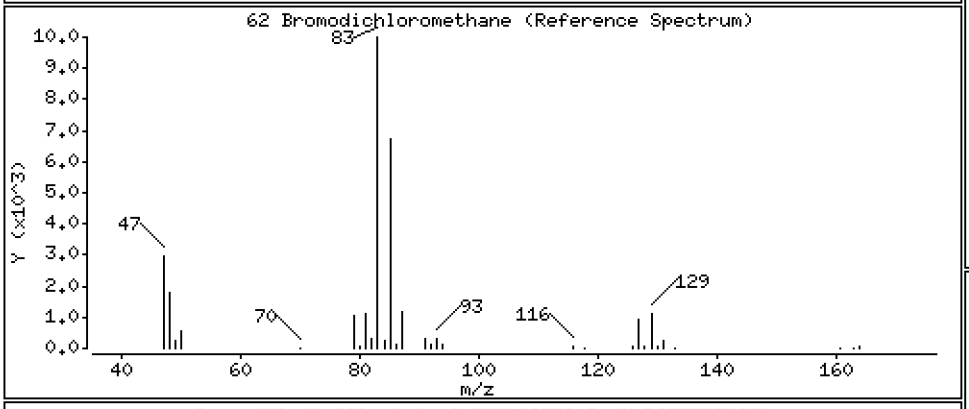
62 Bromodichloromethane Concentration: 50.5125 ug/L

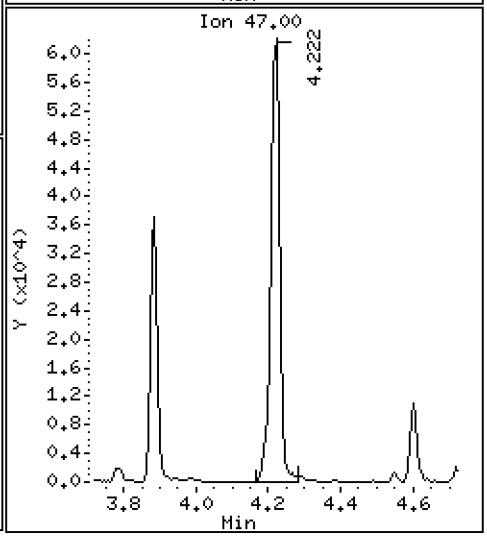


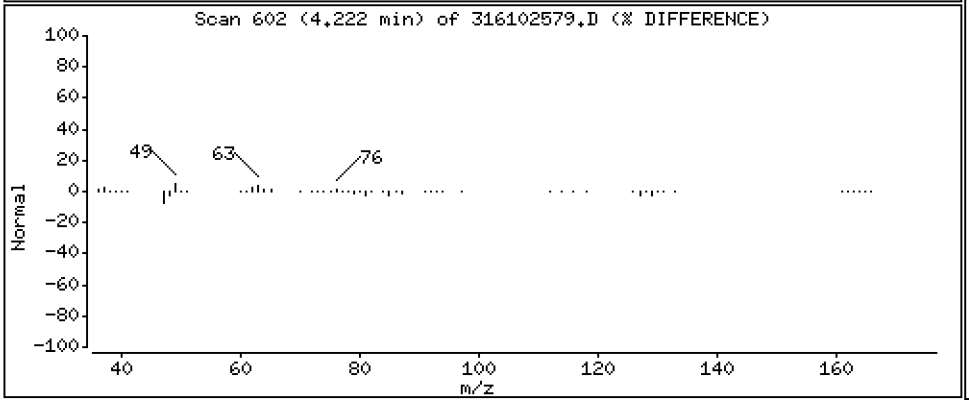












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 72

Date : 26-OCT-2016 08:14

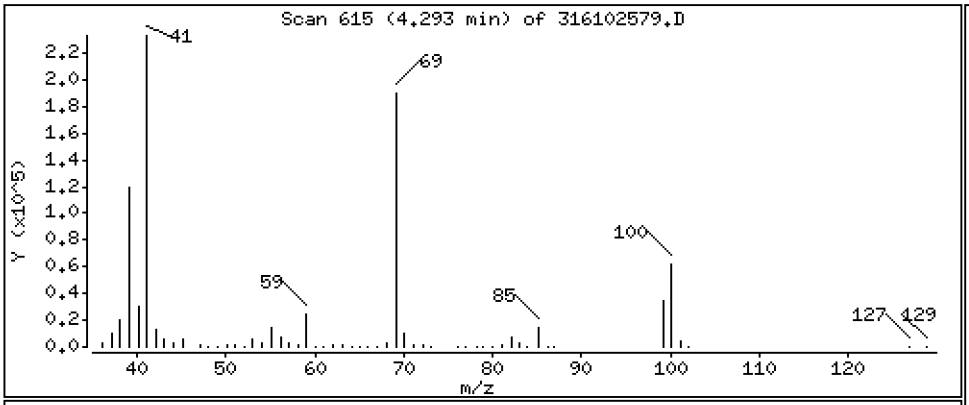
Client ID: Instrument: ms03.i

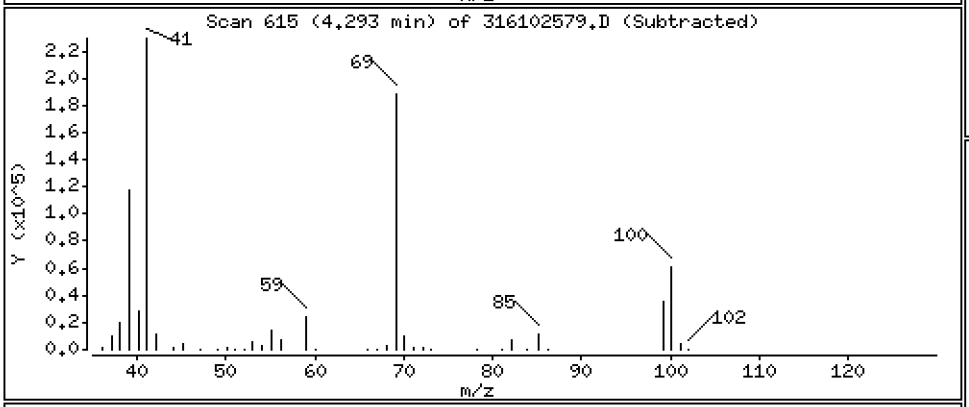
Sample Info: 1801;;1;2;4;;;

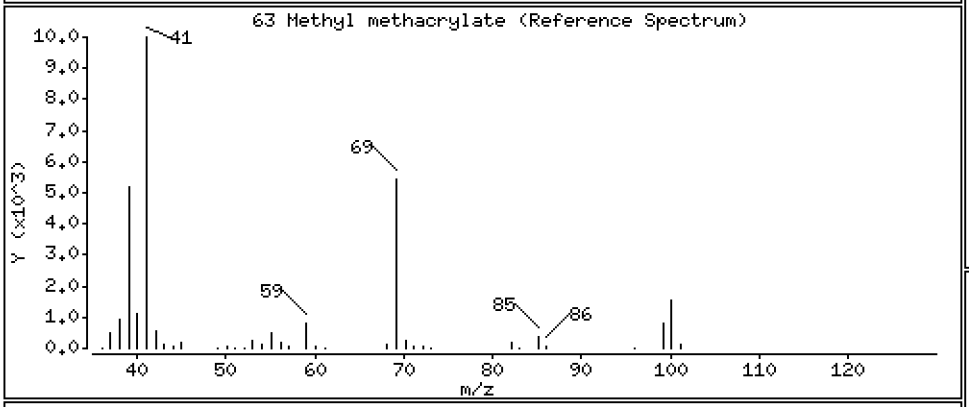
Purge Volume: 5.0 Operator: CJG

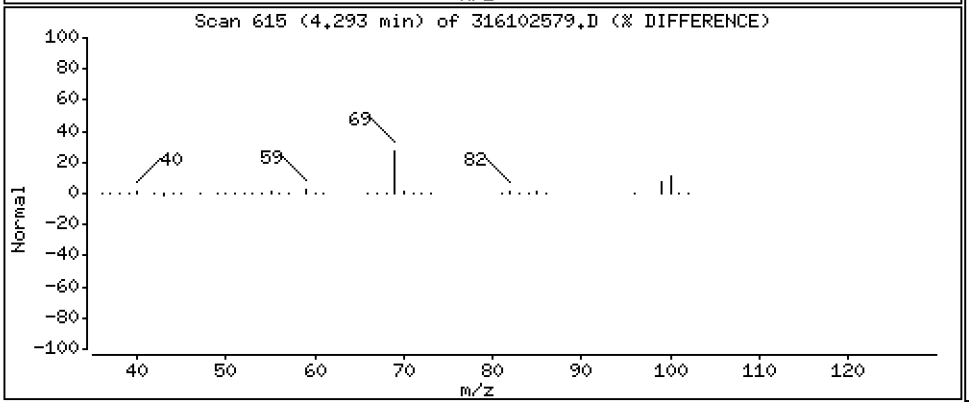
Column phase: DB-VRX Column diameter: 0.25

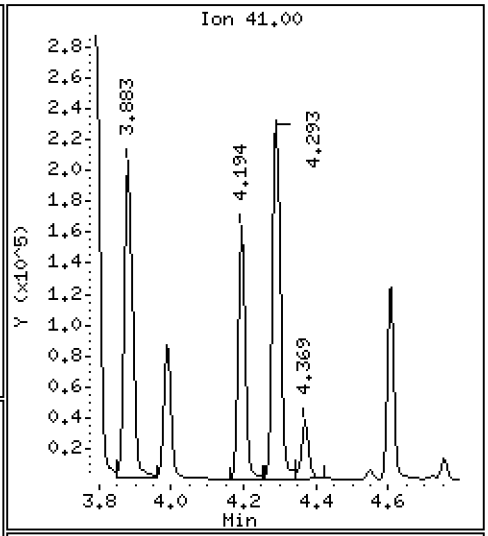
63 Methyl methacrylate Concentration: 54.0318 ug/L

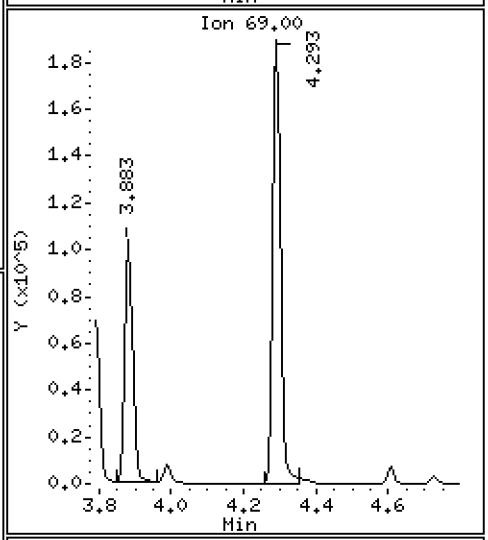


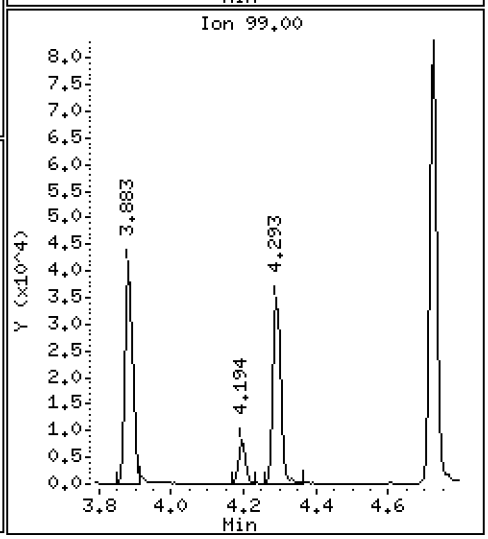












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 73

Date : 26-OCT-2016 08:14

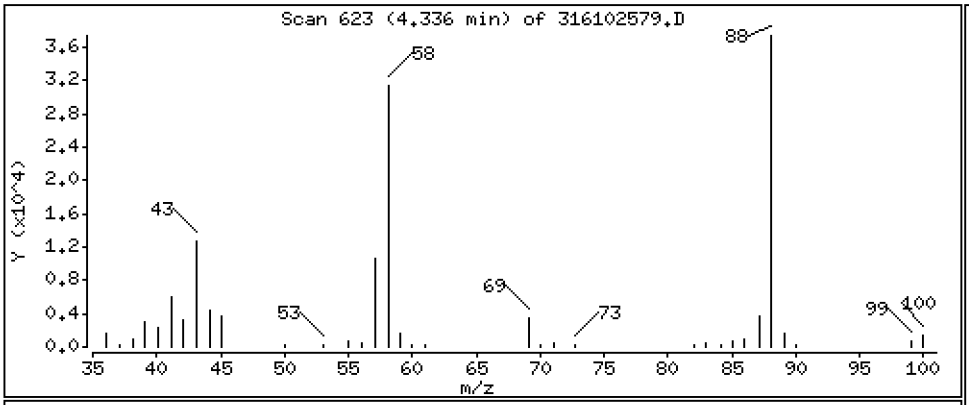
Client ID: Instrument: ms03.i

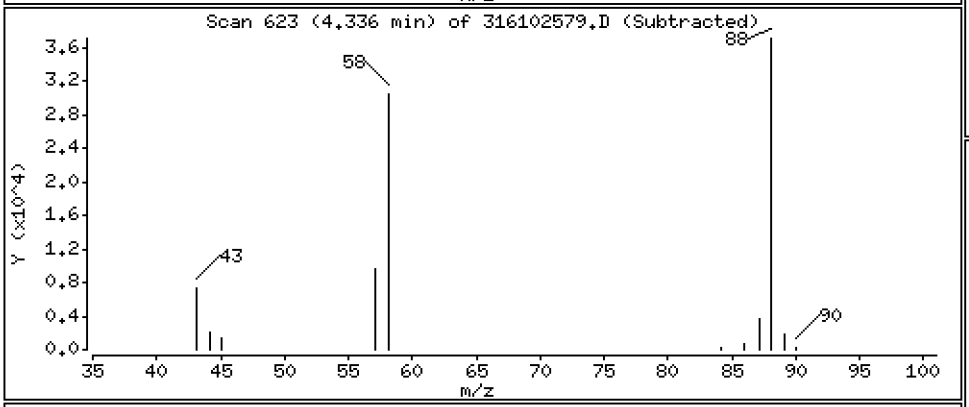
Sample Info: 1801;;1;2;4;;;

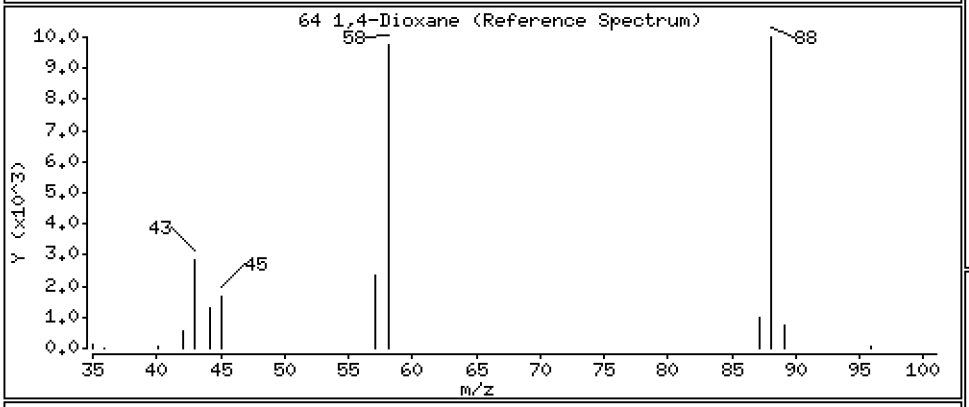
Purge Volume: 5.0 Operator: CJG

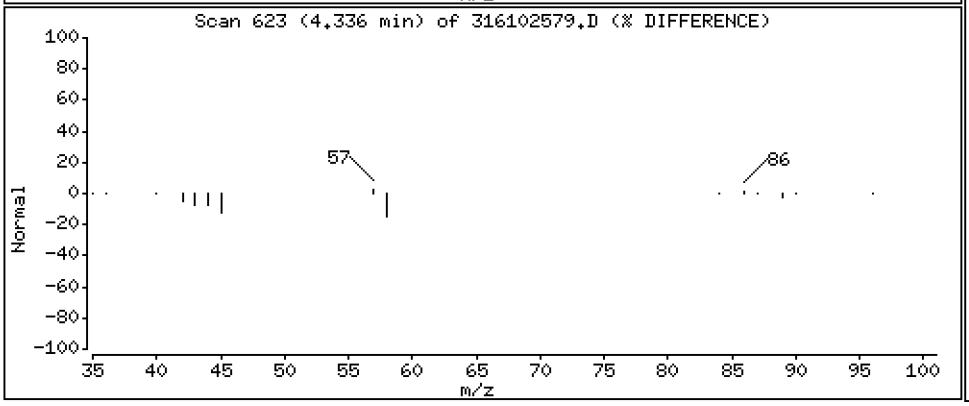
Column phase: DB-VRX Column diameter: 0.25

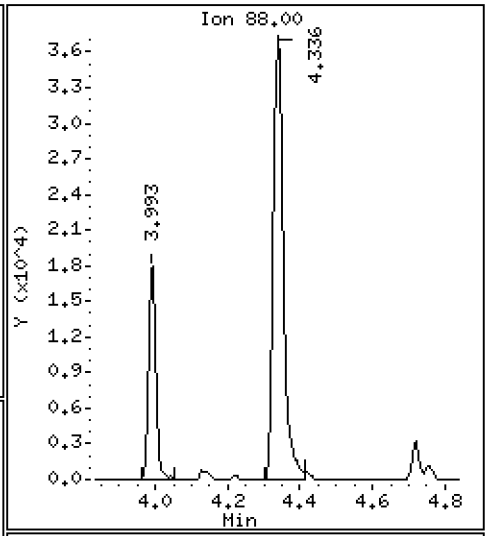
64 1,4-Dioxane Concentration: 2335.41 ug/L

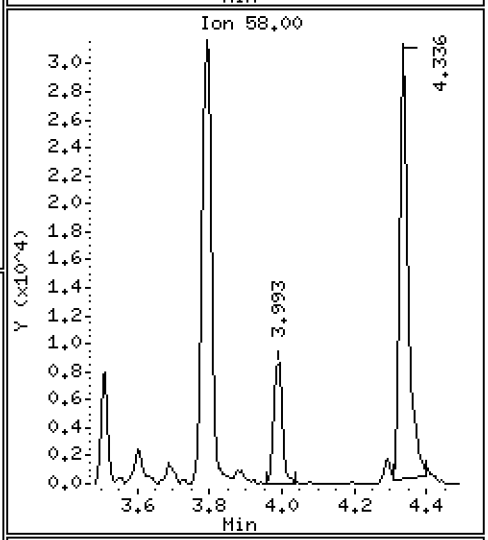


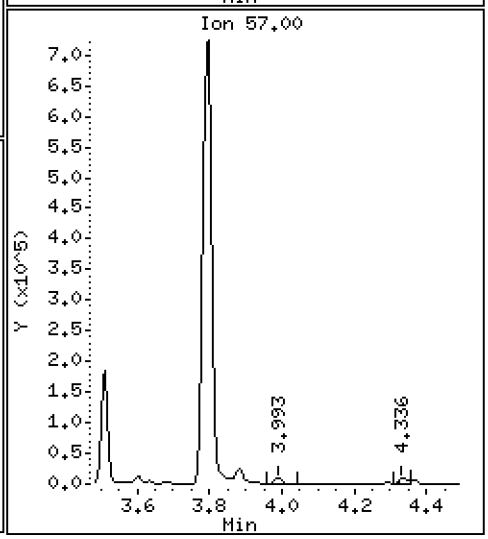












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 74

Date : 26-OCT-2016 08:14

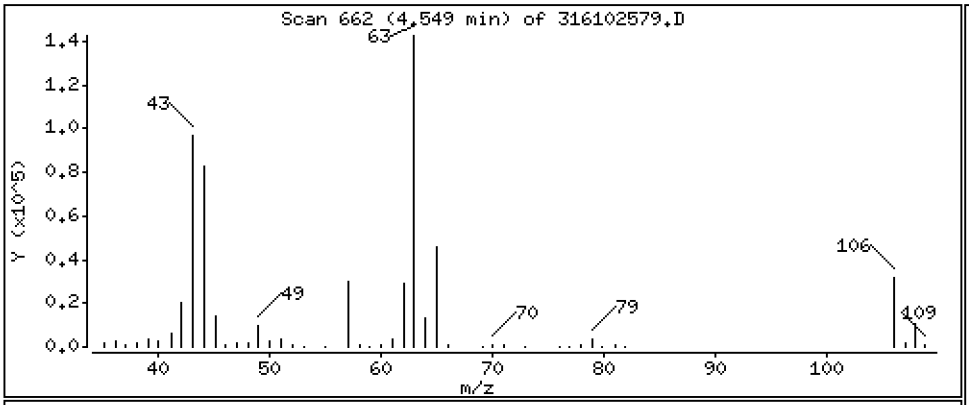
Client ID: Instrument: ms03.i

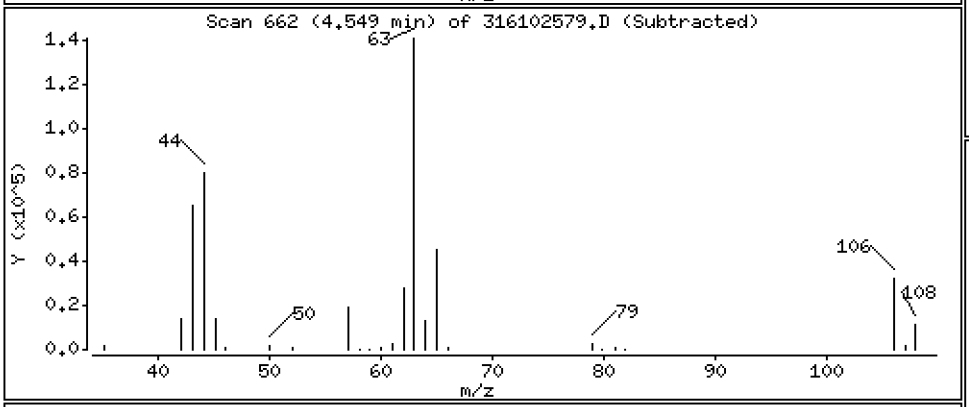
Sample Info: 1801;;1;2;4;;;

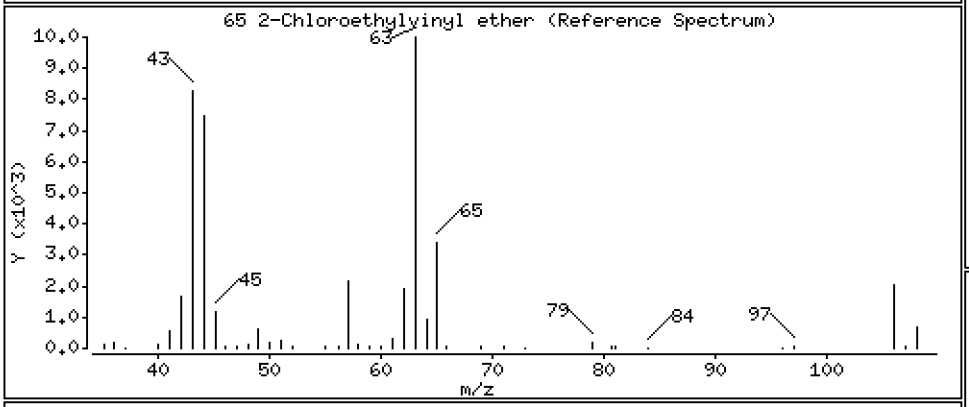
Purge Volume: 5.0 Operator: CJG

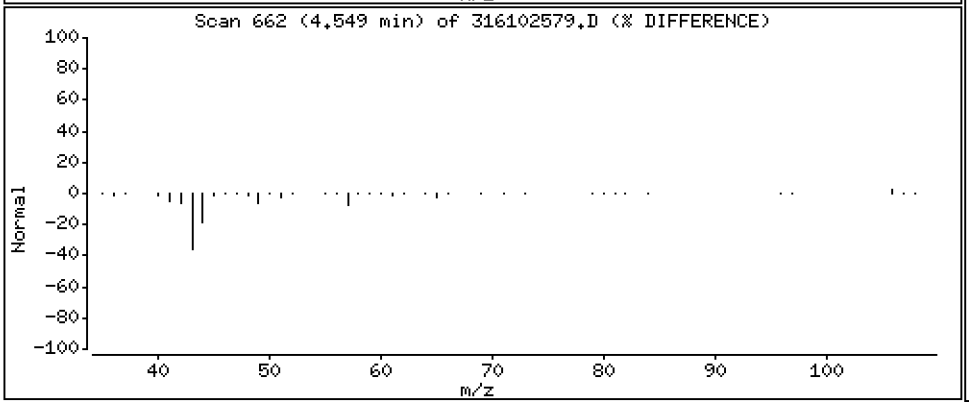
Column phase: DB-VRX Column diameter: 0.25

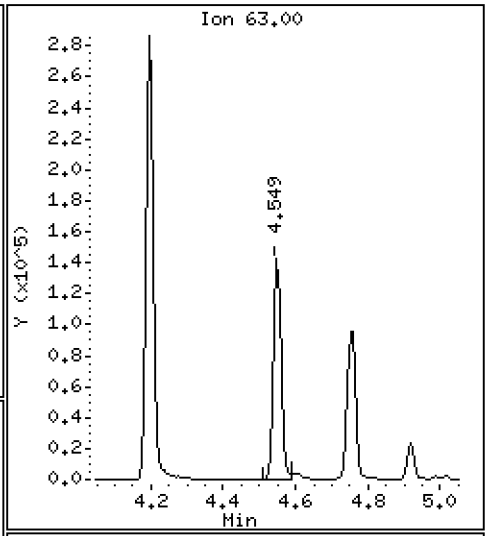
65 2-Chloroethylvinyl ether Concentration: 44.2581 ug/L

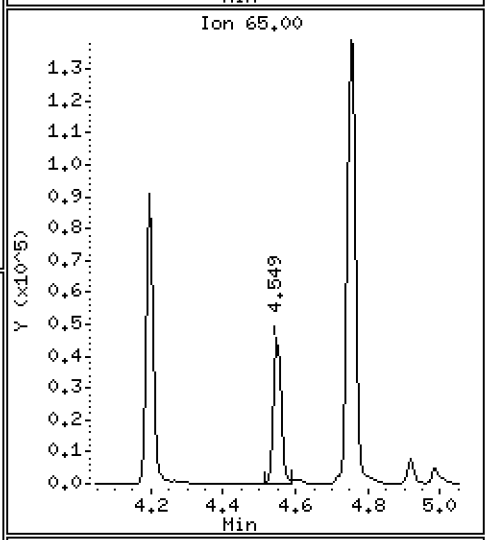


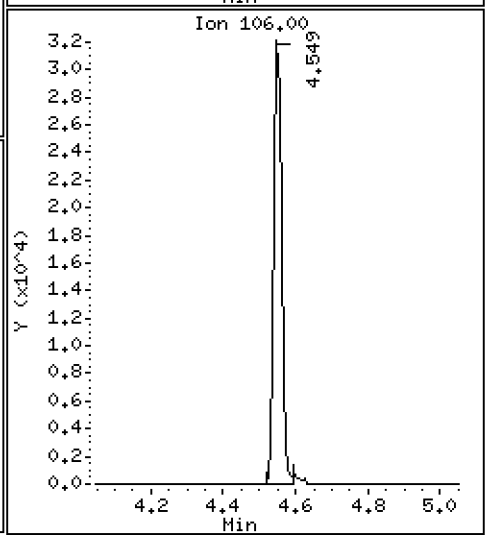












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 75

Date : 26-OCT-2016 08:14

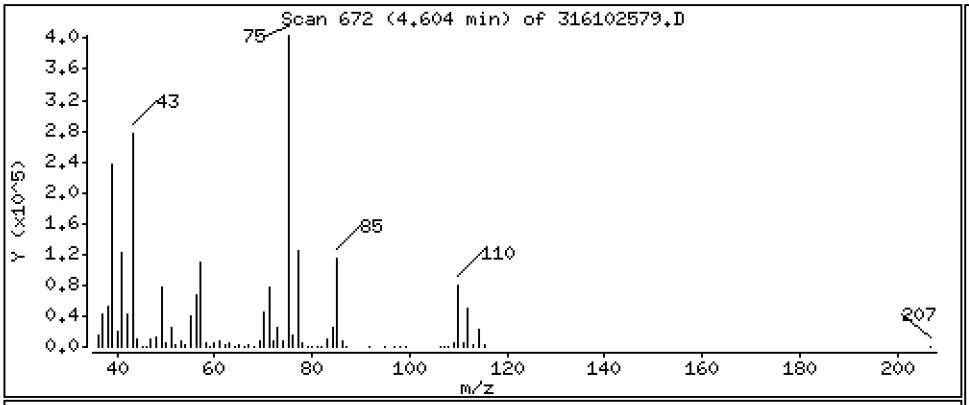
Client ID: Instrument: ms03.i

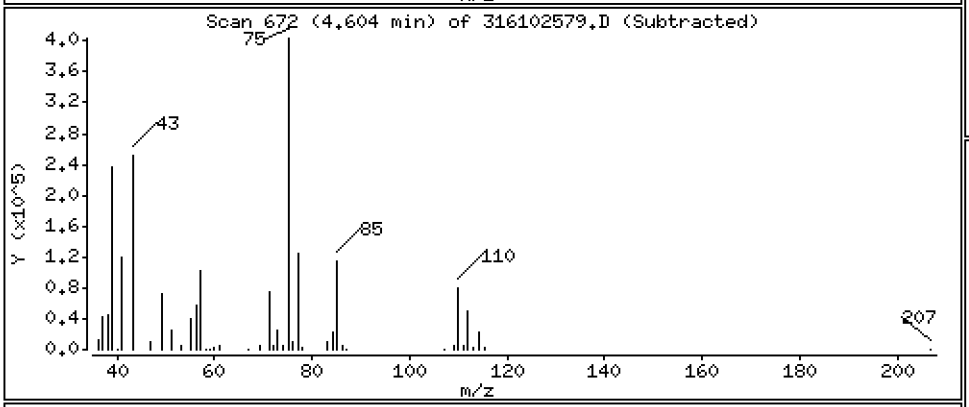
Sample Info: 1801;;1;2;4;;;

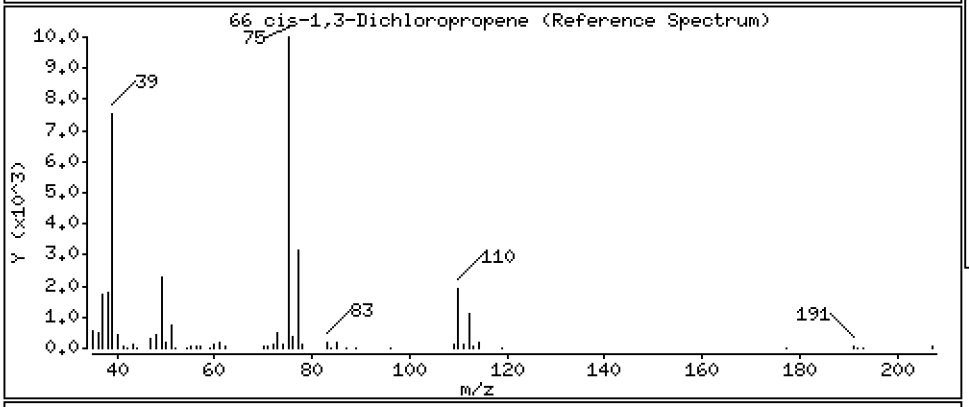
Purge Volume: 5.0 Operator: CJG

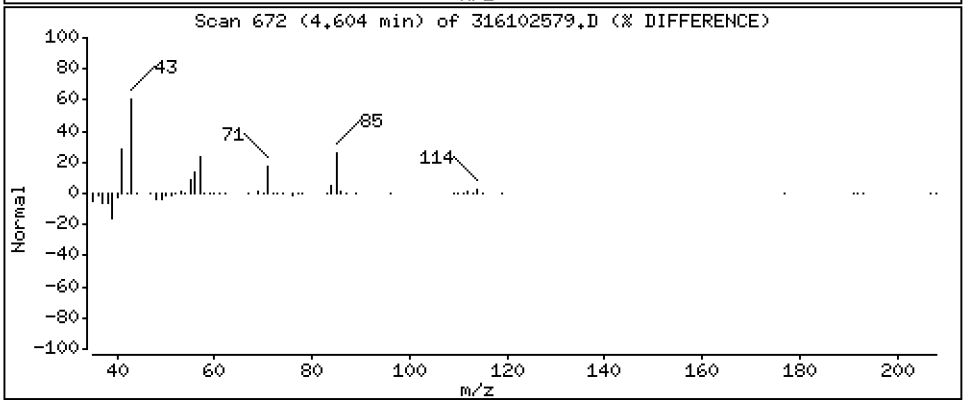
Column phase: DB-VRX Column diameter: 0.25

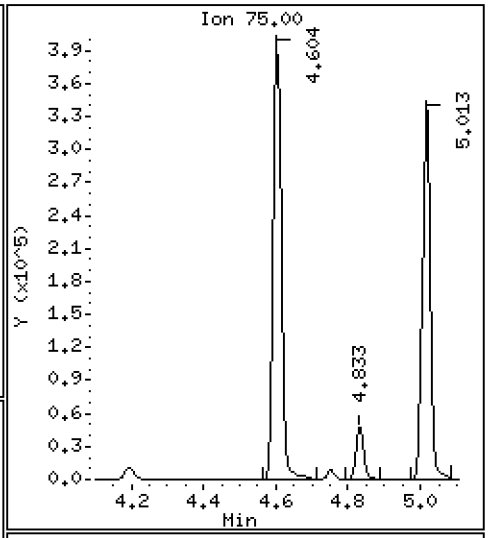
66 cis-1,3-Dichloropropene Concentration: 49.1800 ug/L

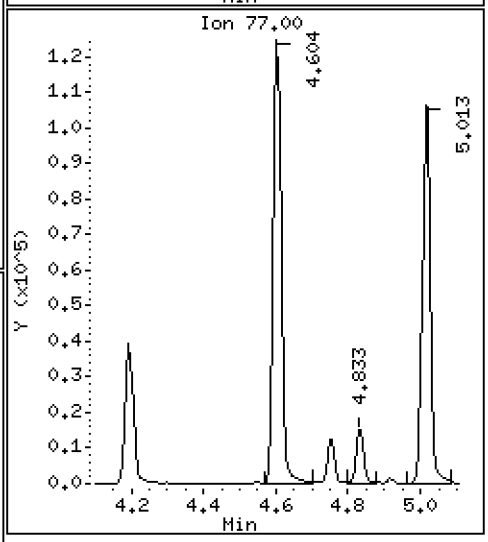












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 76

Date : 26-OCT-2016 08:14

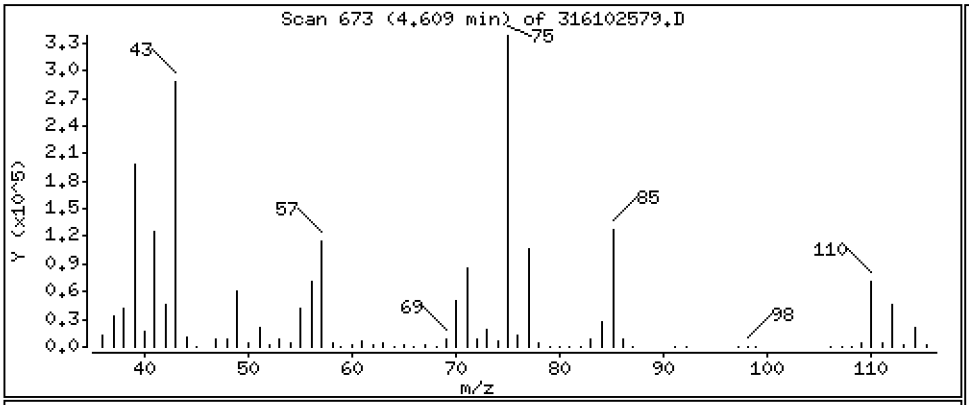
Client ID: Instrument: ms03.i

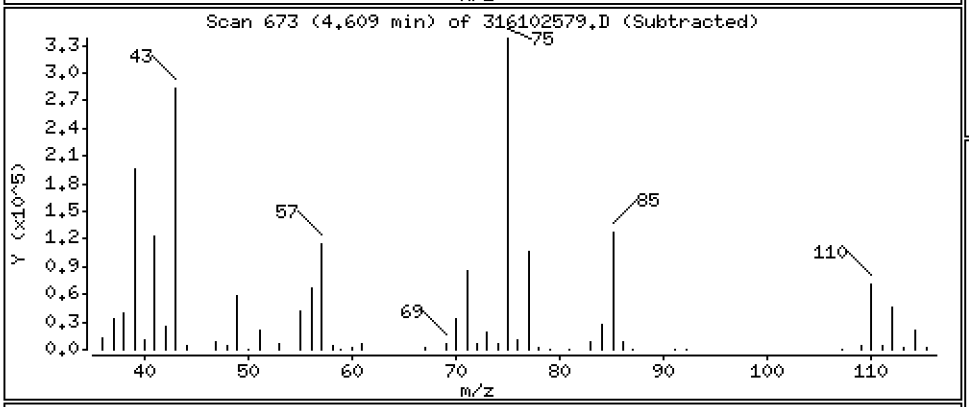
Sample Info: 1801;;1;2;4;;;

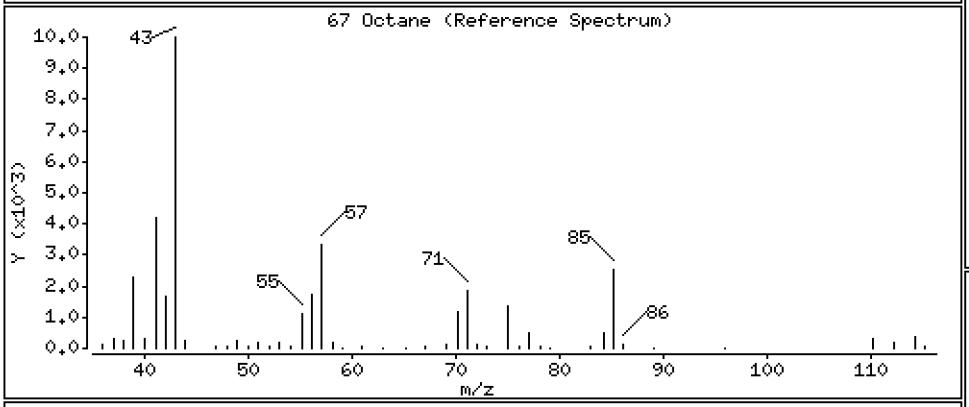
Purge Volume: 5.0 Operator: CJG

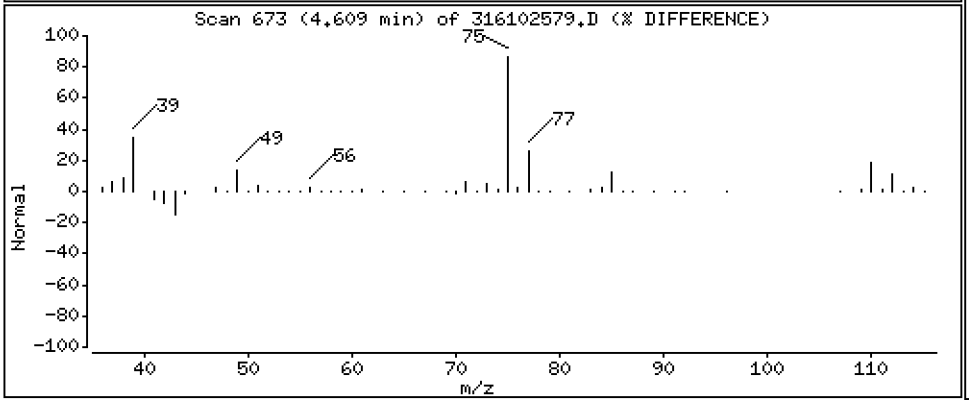
Column phase: DB-VRX Column diameter: 0.25

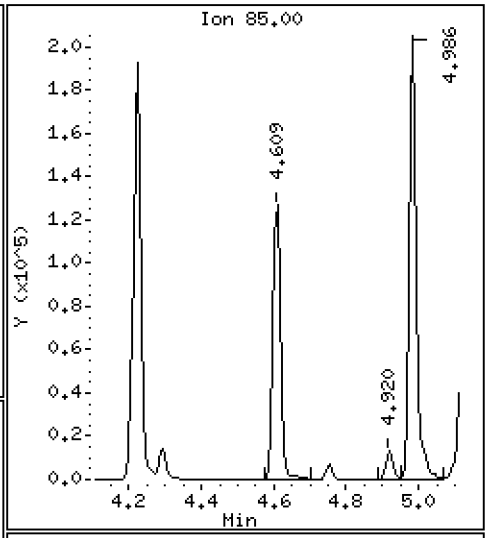
67 Octane Concentration: 49.0909 ug/L

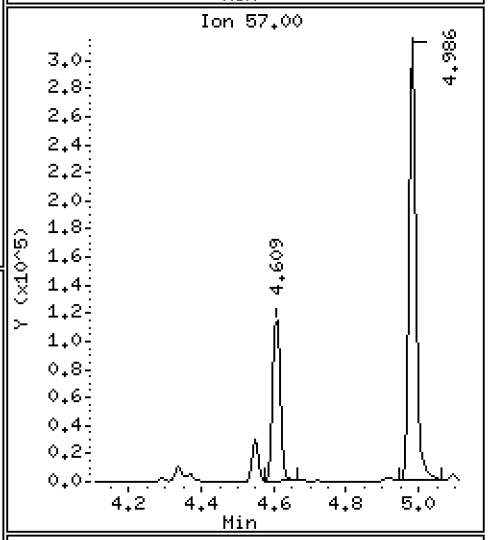


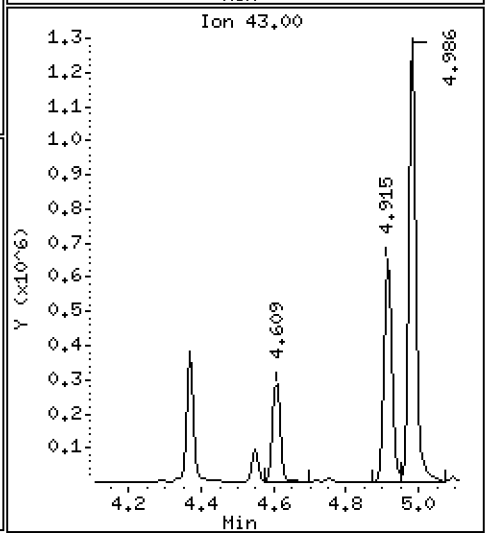












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 77

Date : 26-OCT-2016 08:14

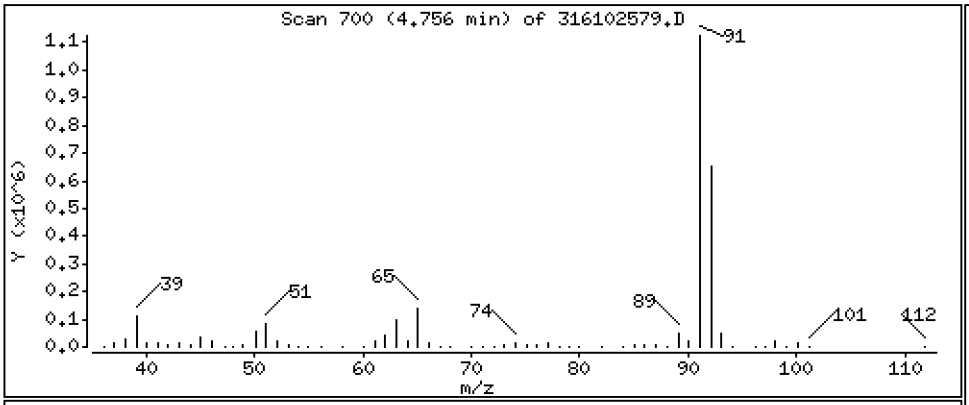
Client ID: Instrument: ms03.i

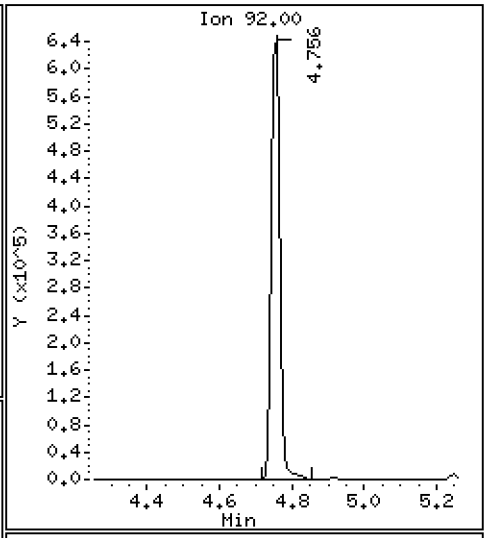
Sample Info: 1801;;1;2;4;;;

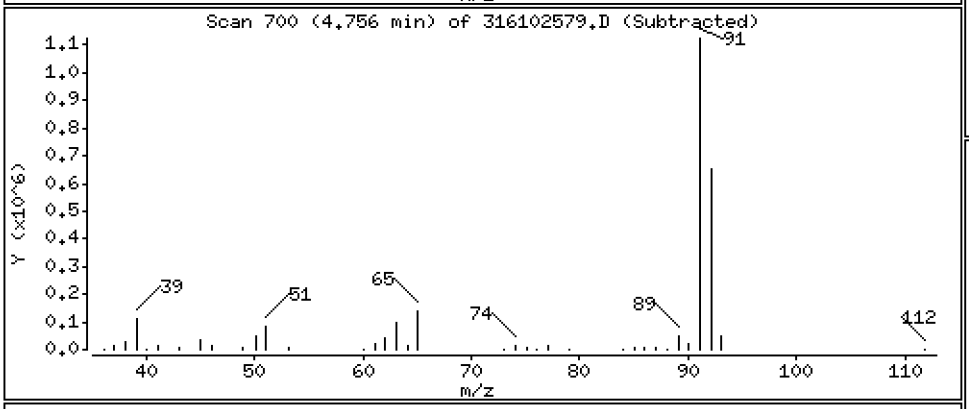
Purge Volume: 5.0 Operator: CJG

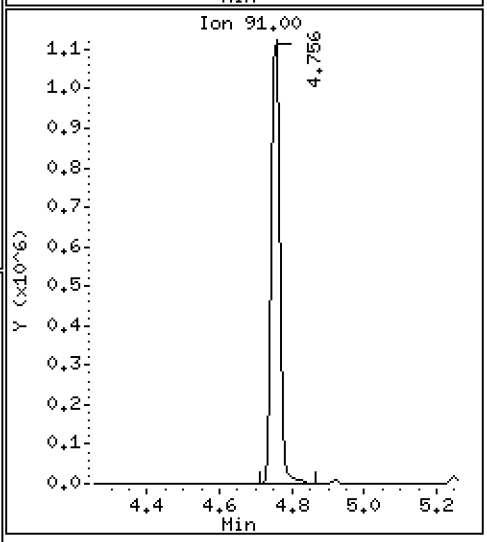
Column phase: DB-VRX Column diameter: 0.25

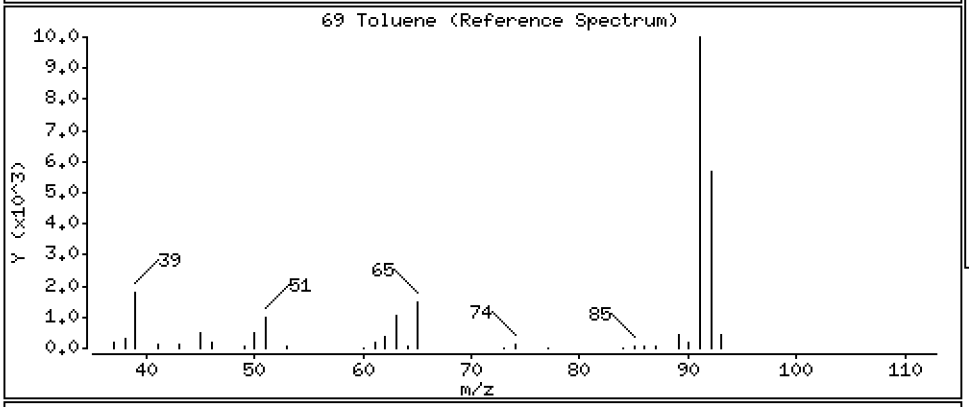
69 Toluene Concentration: 47.0232 ug/L

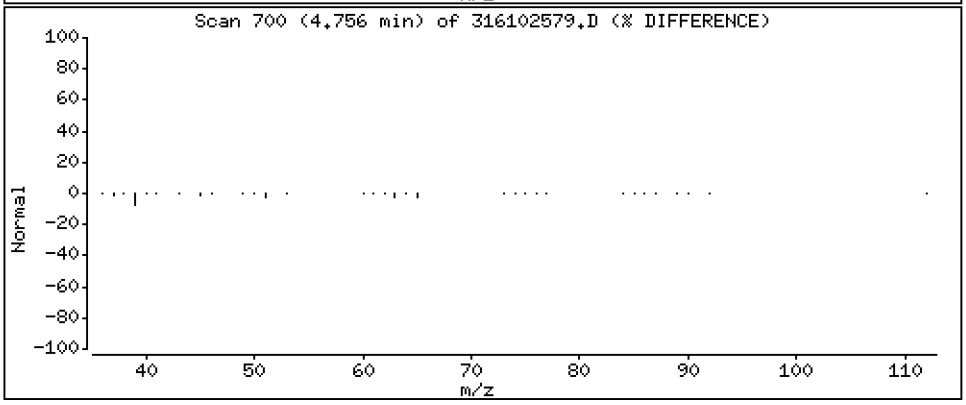












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 78

Date : 26-OCT-2016 08:14

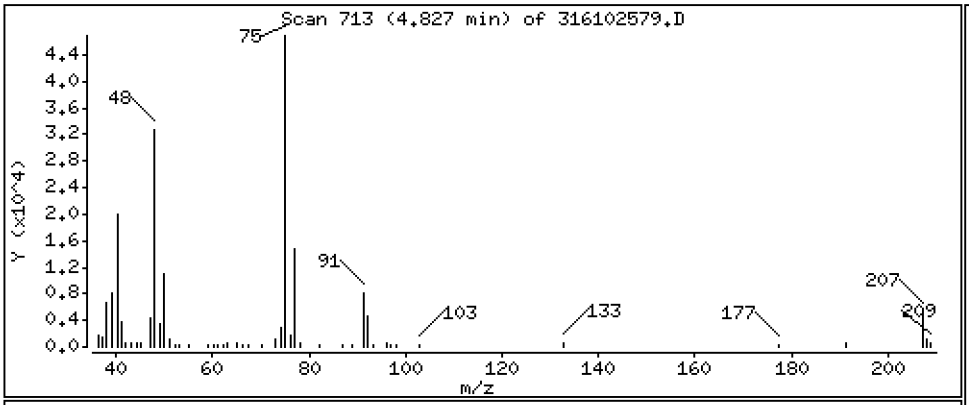
Client ID: Instrument: ms03.i

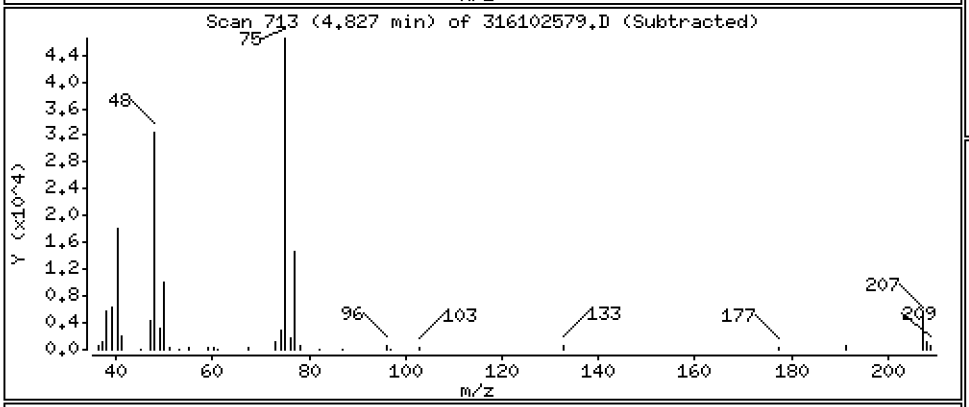
Sample Info: 1801;;1;2;4;;;

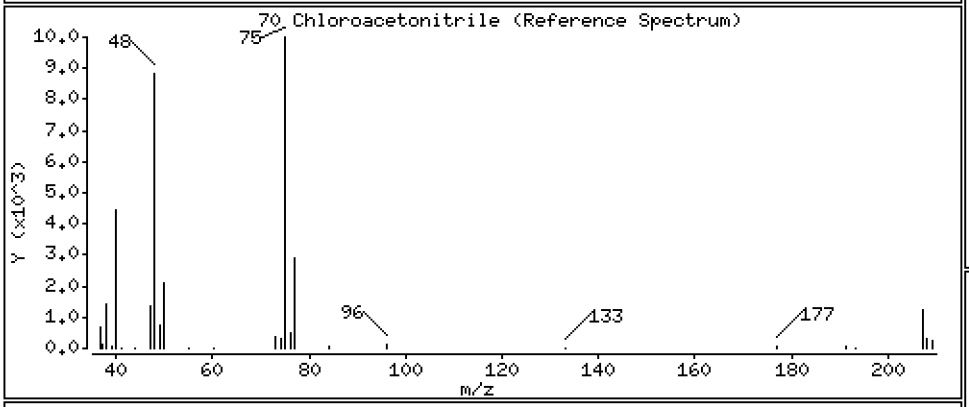
Purge Volume: 5.0 Operator: CJG

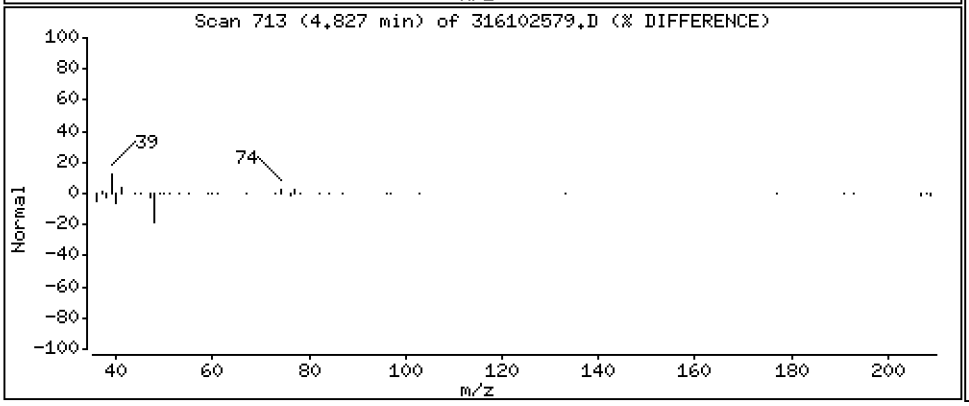
Column phase: DB-VRX Column diameter: 0.25

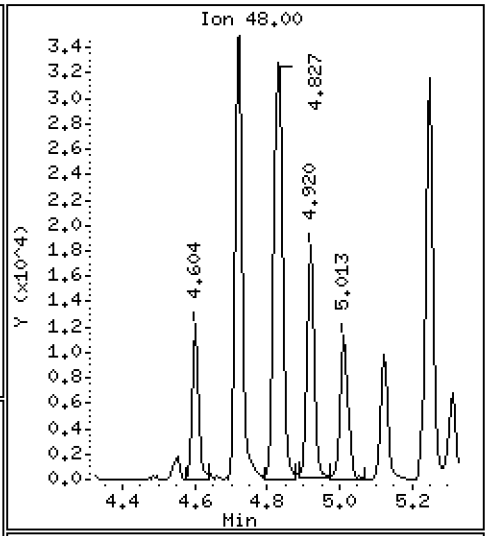
70 Chloroacetonitrile Concentration: 281.577 ug/L

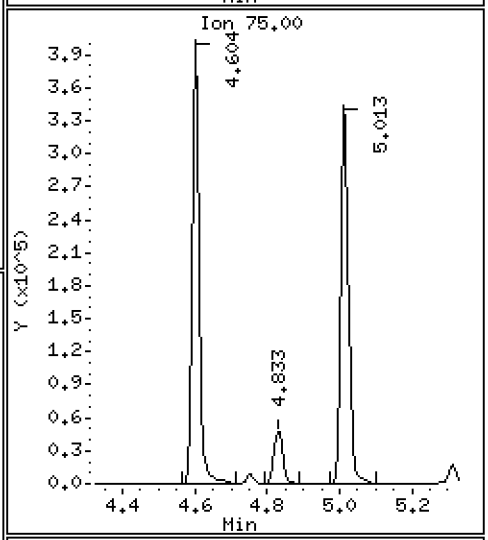


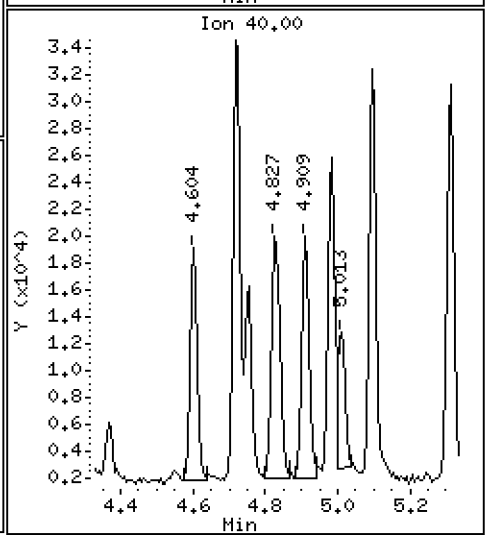












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 79

Date : 26-OCT-2016 08:14

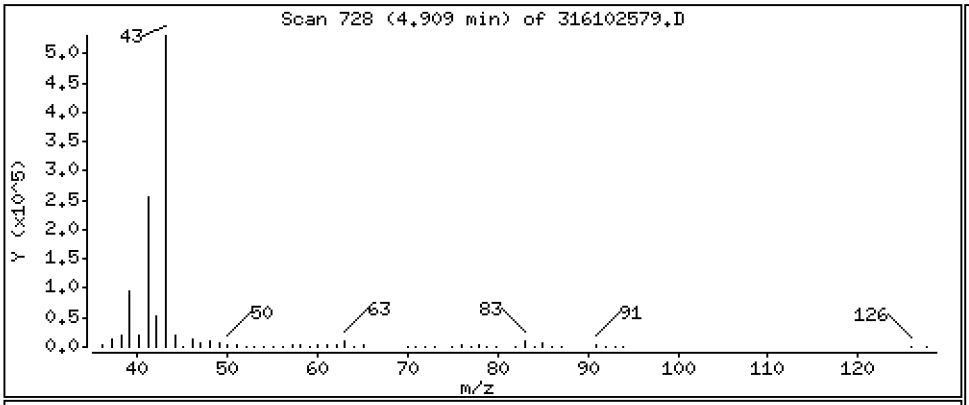
Client ID: Instrument: ms03.i

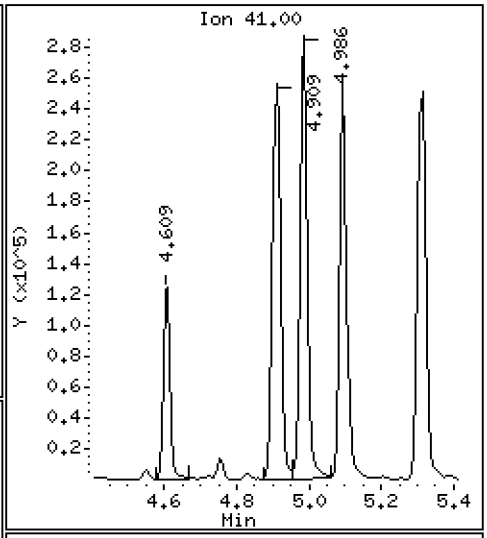
Sample Info: 1801;;1;2;4;;;

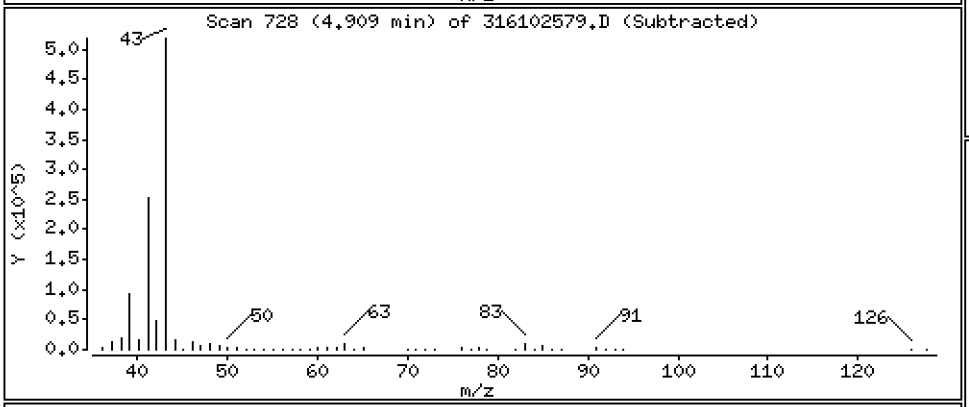
Purge Volume: 5.0 Operator: CJG

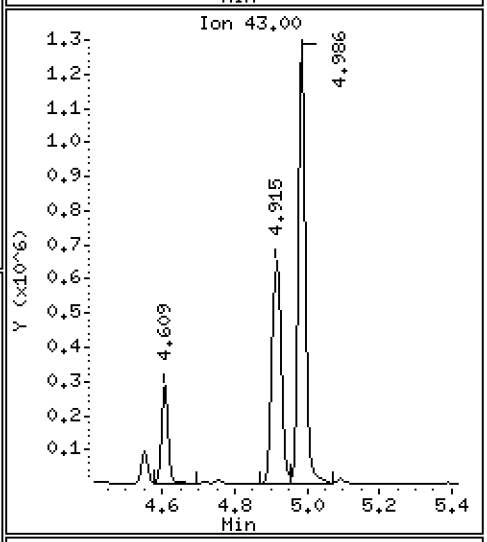
Column phase: DB-VRX Column diameter: 0.25

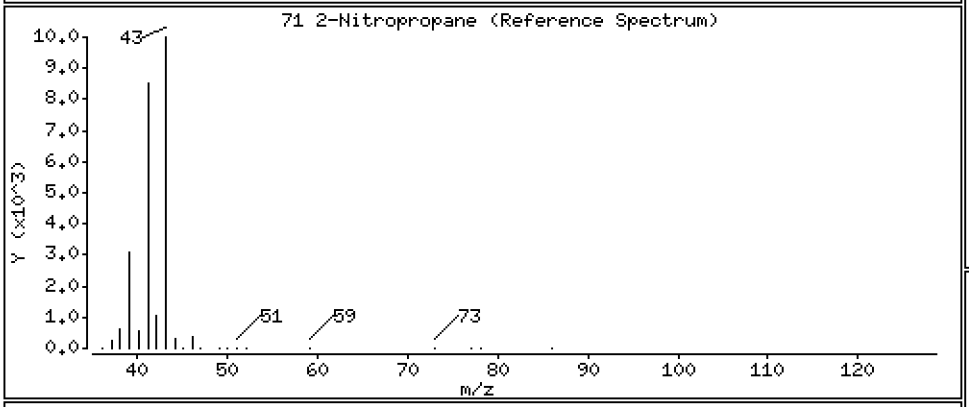
71 2-Nitropropane Concentration: 247.853 ug/L

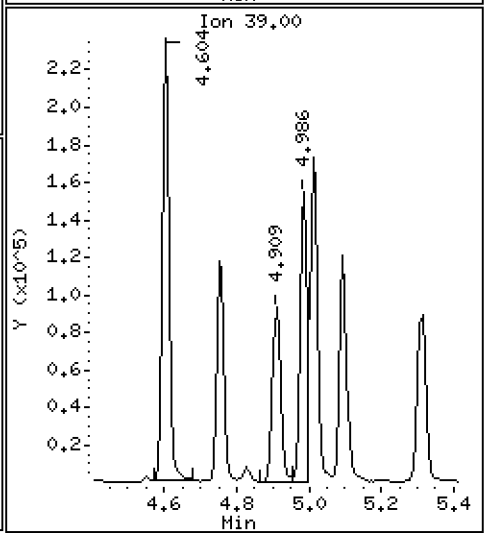


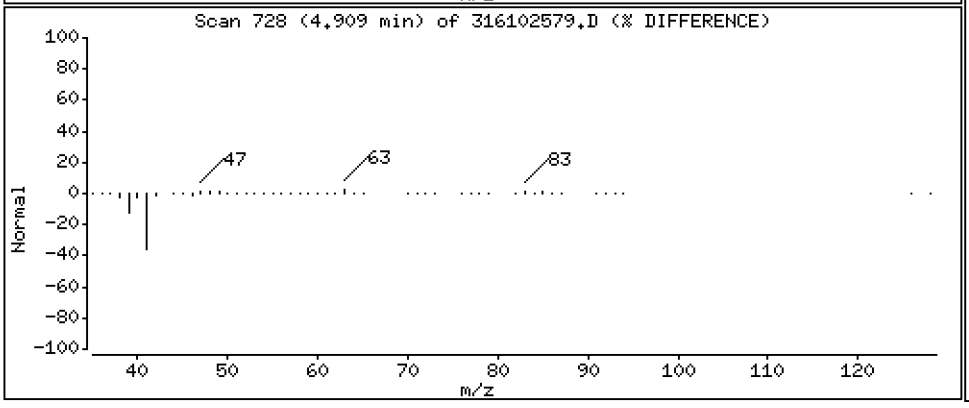












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 80

Date : 26-OCT-2016 08:14

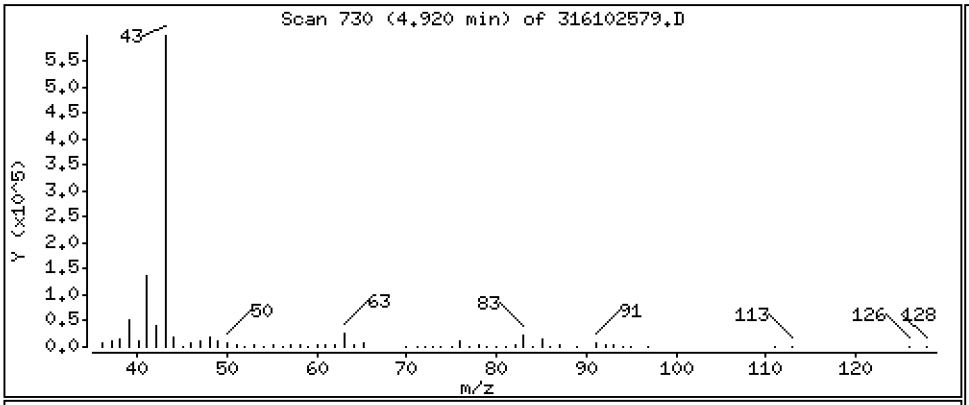
Client ID: Instrument: ms03.i

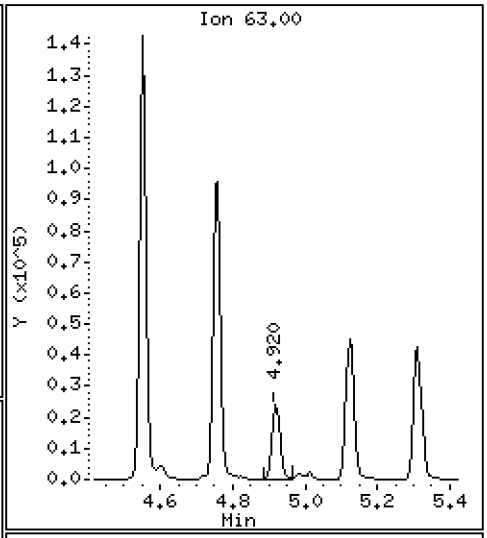
Sample Info: 1801;;1;2;4;;;

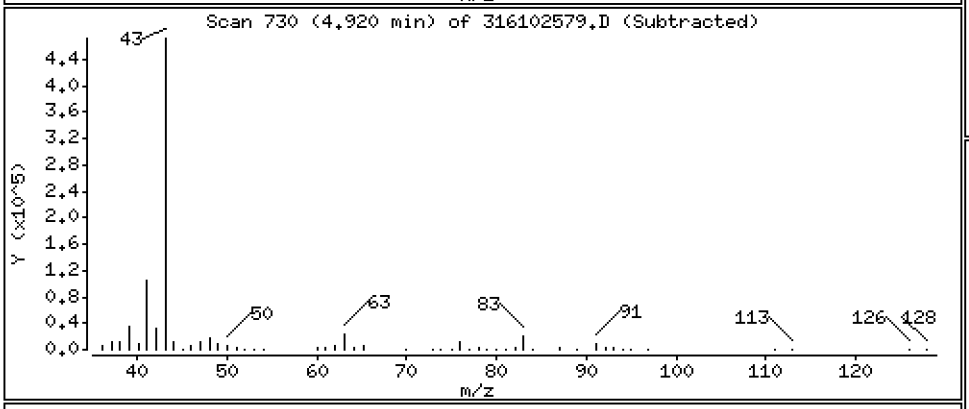
Purge Volume: 5.0 Operator: CJG

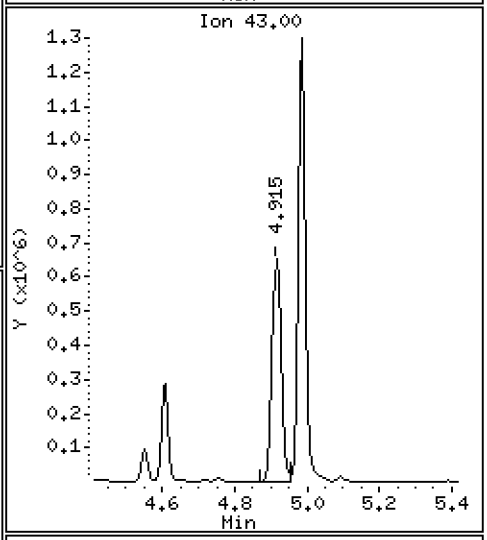
Column phase: DB-VRX Column diameter: 0.25

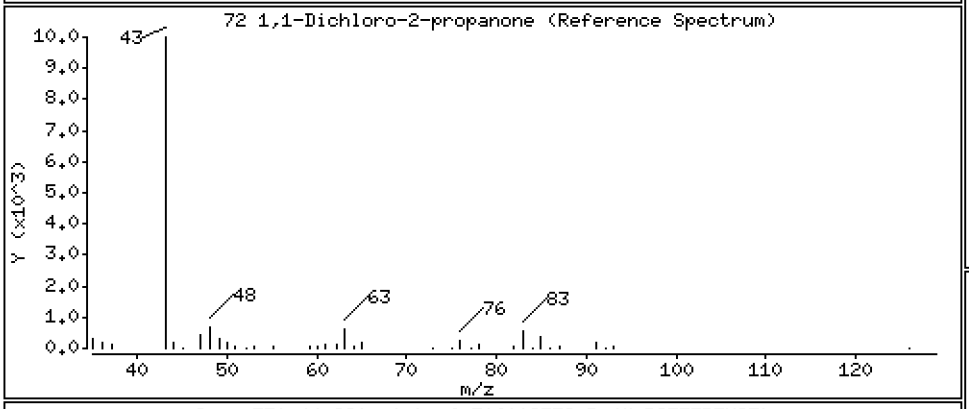
72 1,1-Dichloro-2-propanone Concentration: 244.719 ug/L

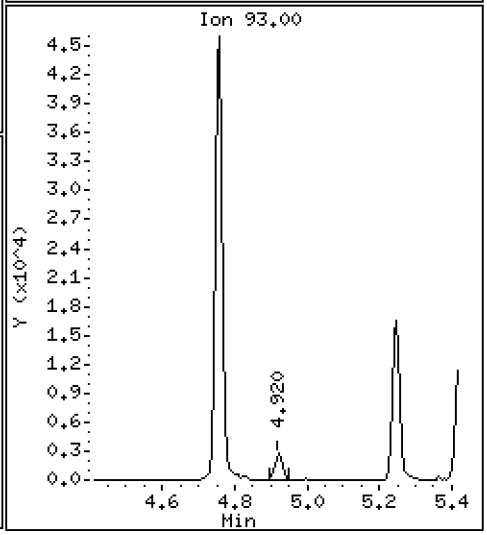


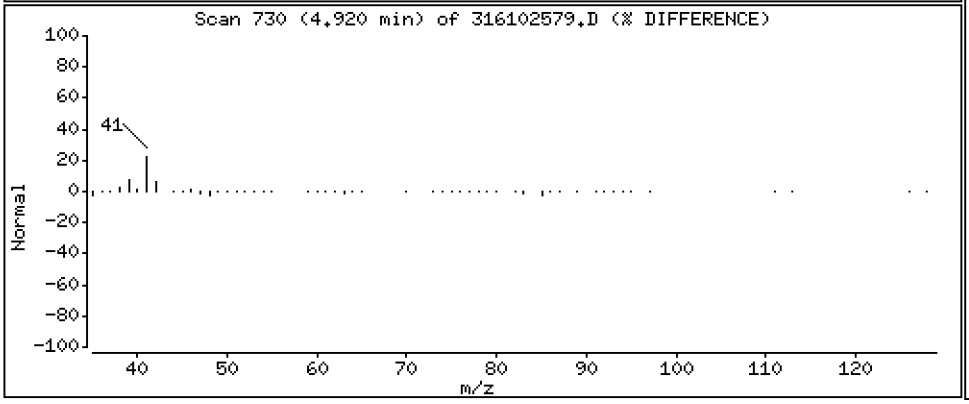












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 81

Date : 26-OCT-2016 08:14

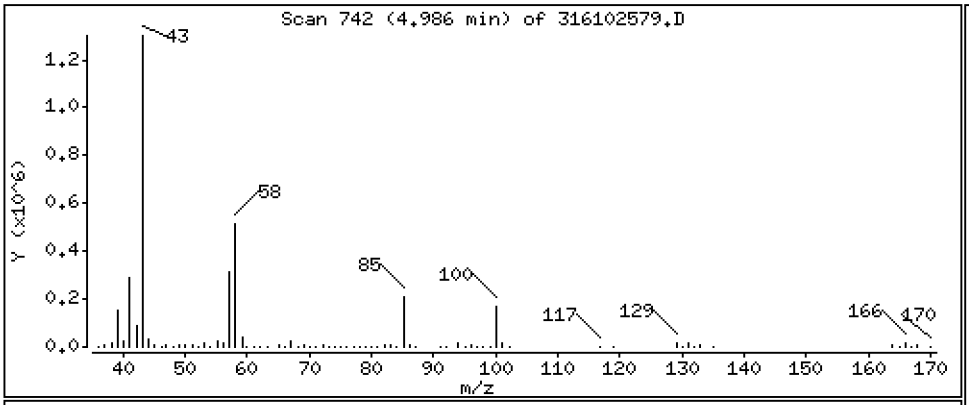
Client ID: Instrument: ms03.i

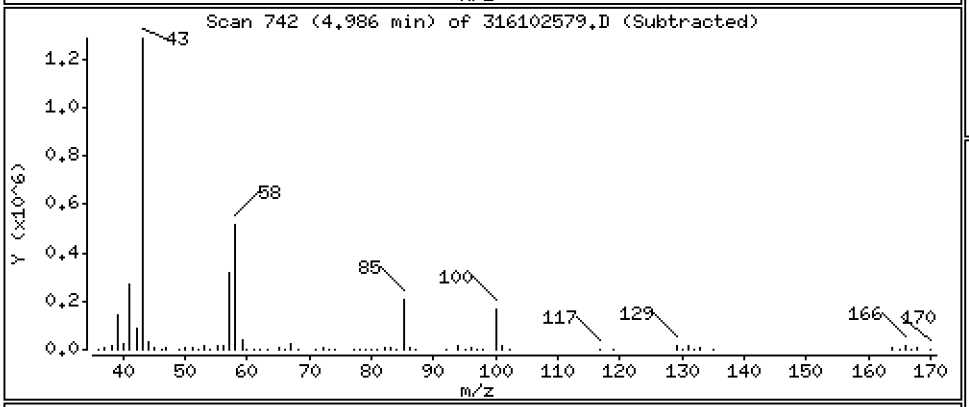
Sample Info: 1801;;1;2;4;;;

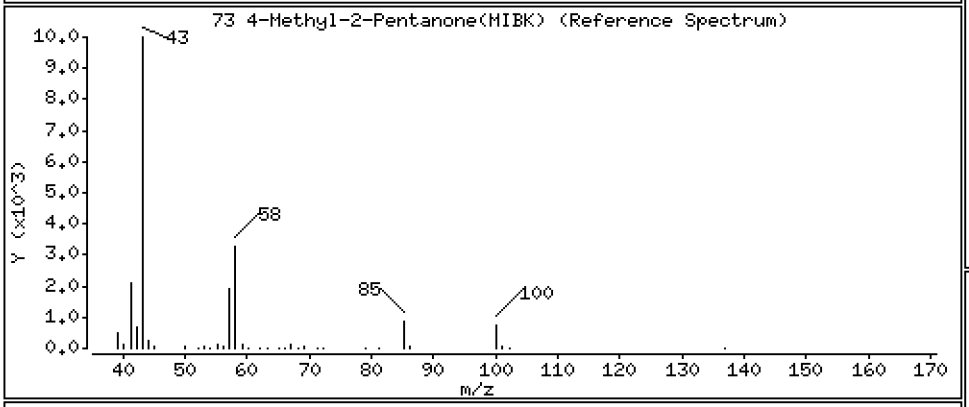
Purge Volume: 5.0 Operator: CJG

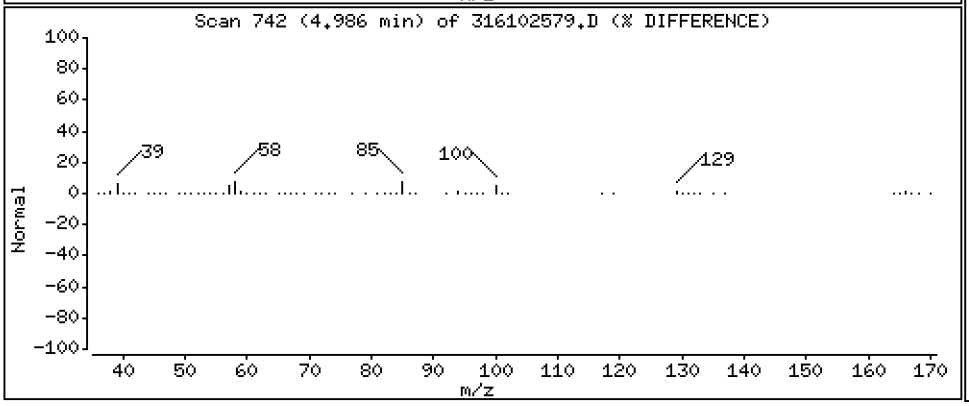
Column phase: DB-VRX Column diameter: 0.25

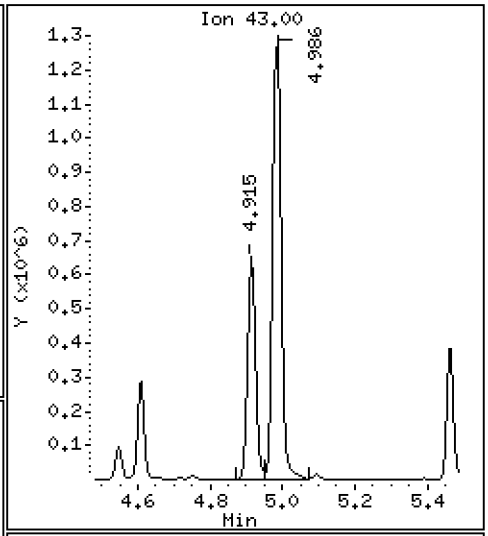
73 4-Methyl-2-Pentanone(MIBK) Concentration: 272.540 ug/L

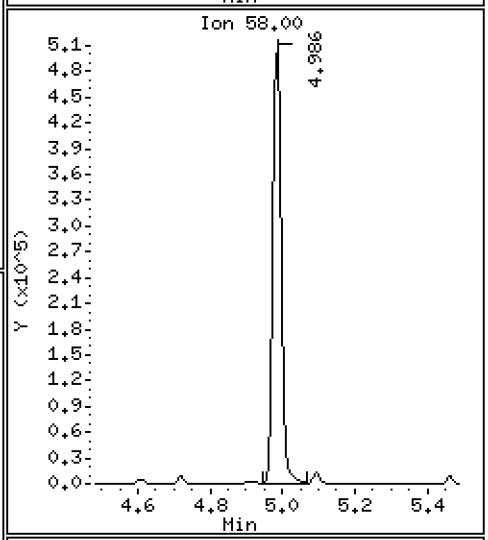


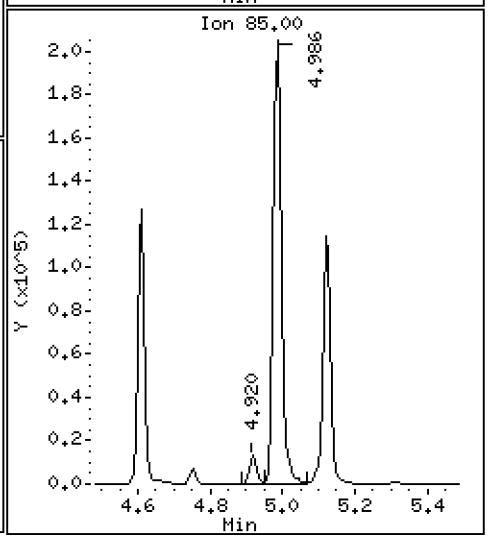












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 82

Date : 26-OCT-2016 08:14

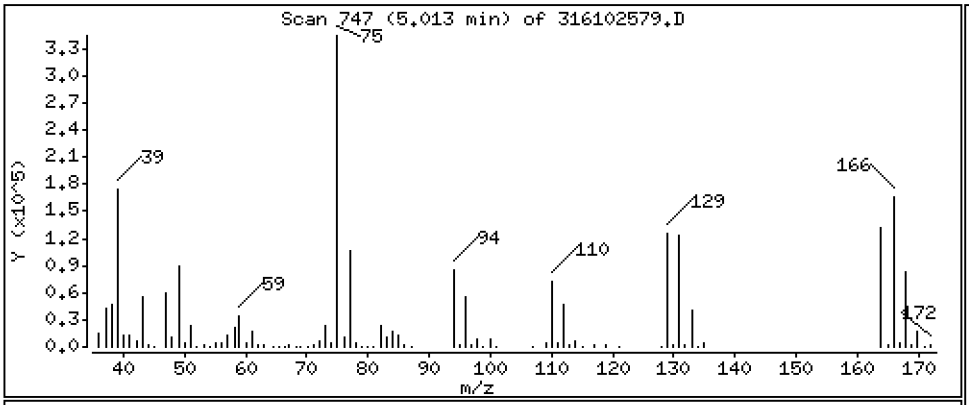
Client ID: Instrument: ms03.i

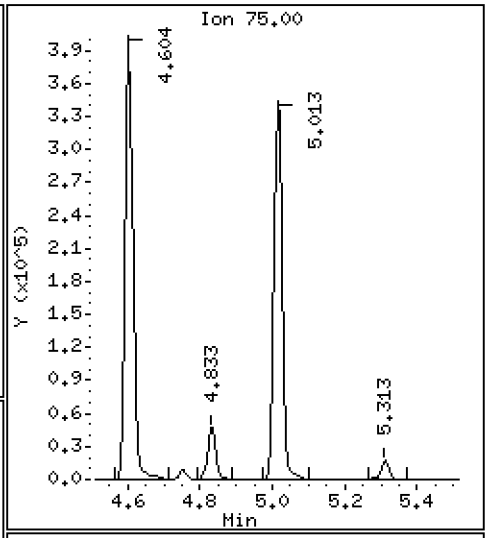
Sample Info: 1801;;1;2;4;;;

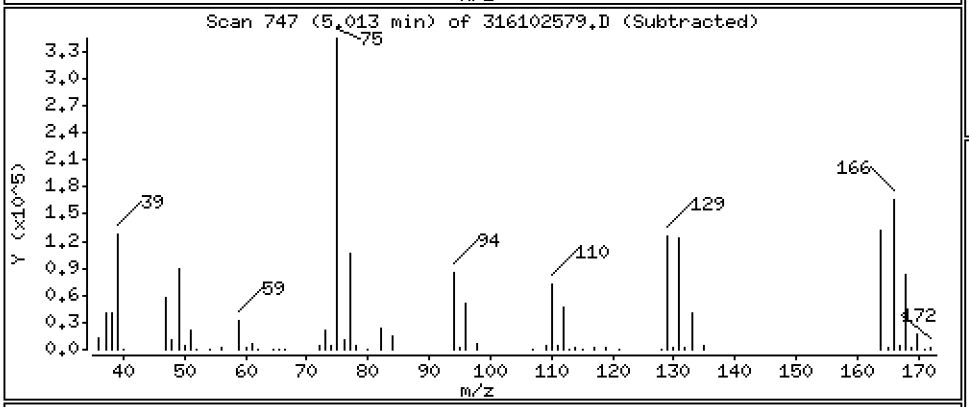
Purge Volume: 5.0 Operator: CJG

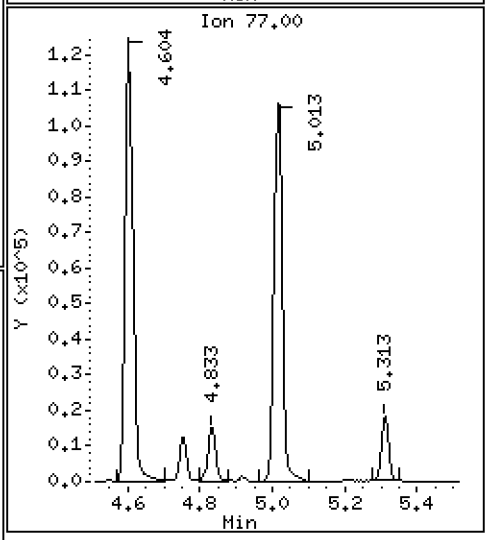
Column phase: DB-VRX Column diameter: 0.25

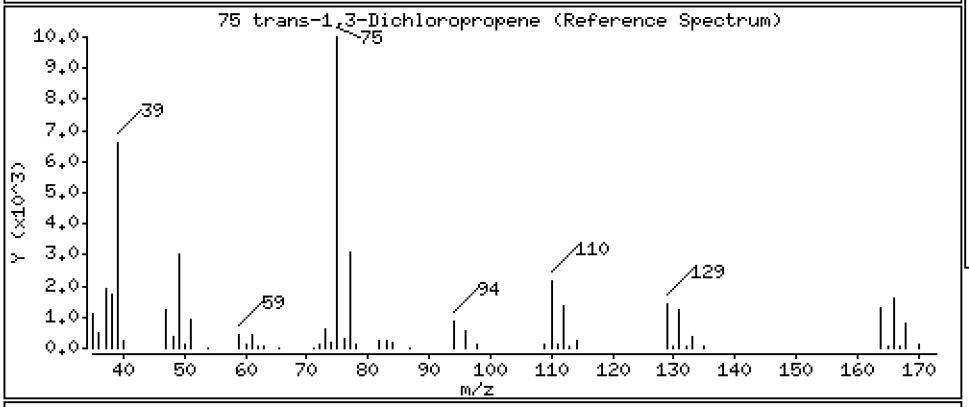
75 trans-1,3-Dichloropropene Concentration: 49.7982 ug/L

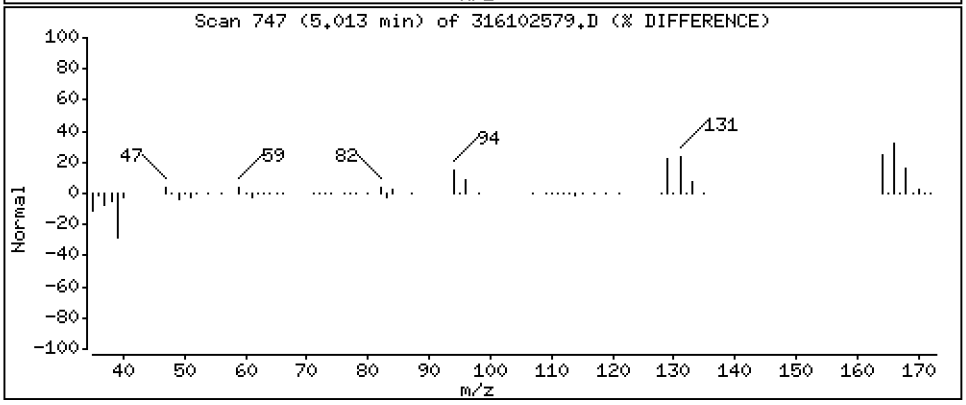












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 83

Date : 26-OCT-2016 08:14

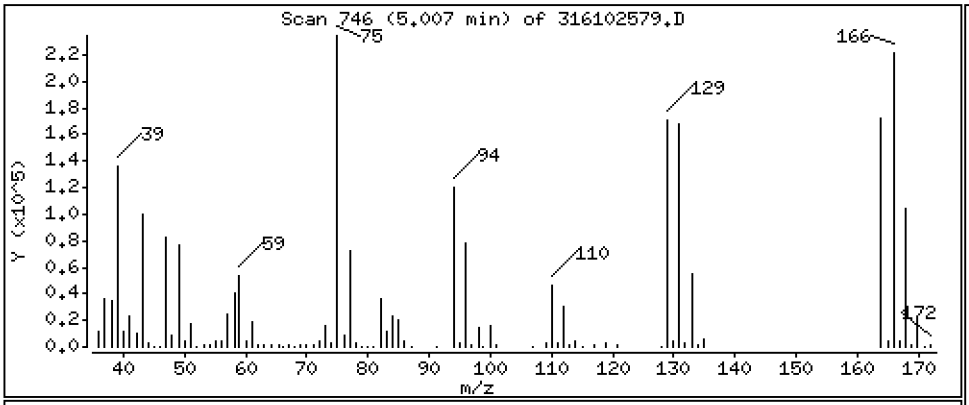
Client ID: Instrument: ms03.i

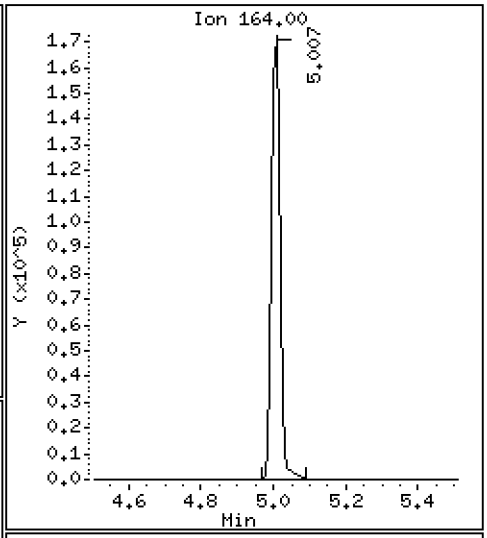
Sample Info: 1801;;1;2;4;;;

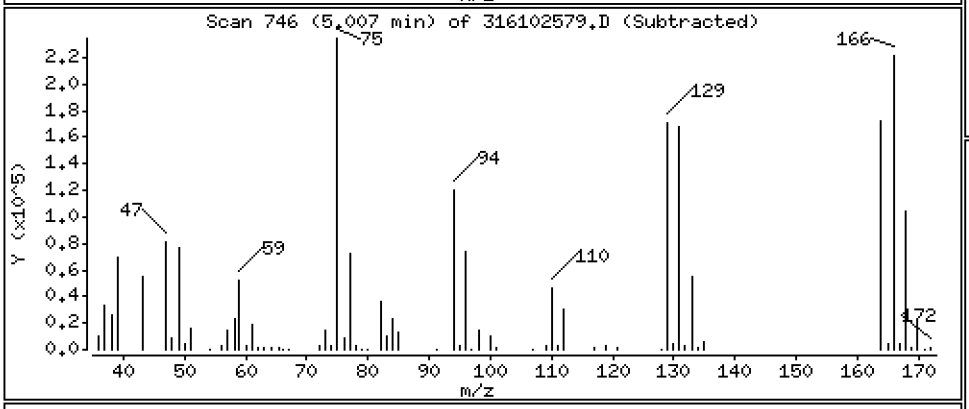
Purge Volume: 5.0 Operator: CJG

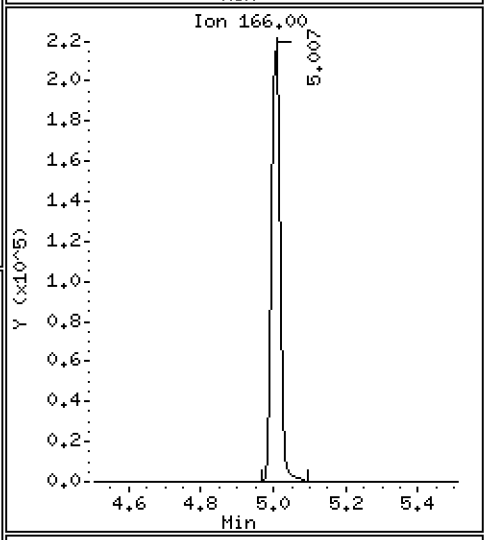
Column phase: DB-VRX Column diameter: 0.25

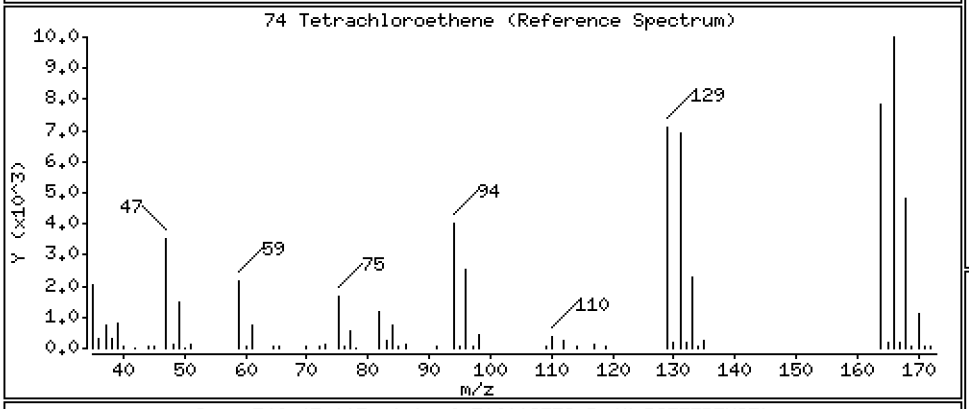
74 Tetrachloroethene Concentration: 51.9553 ug/L

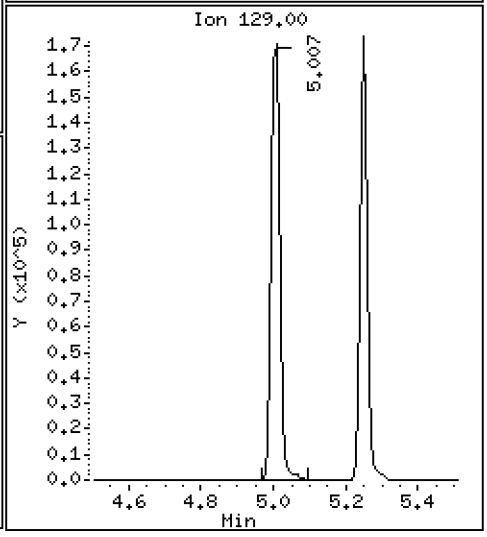


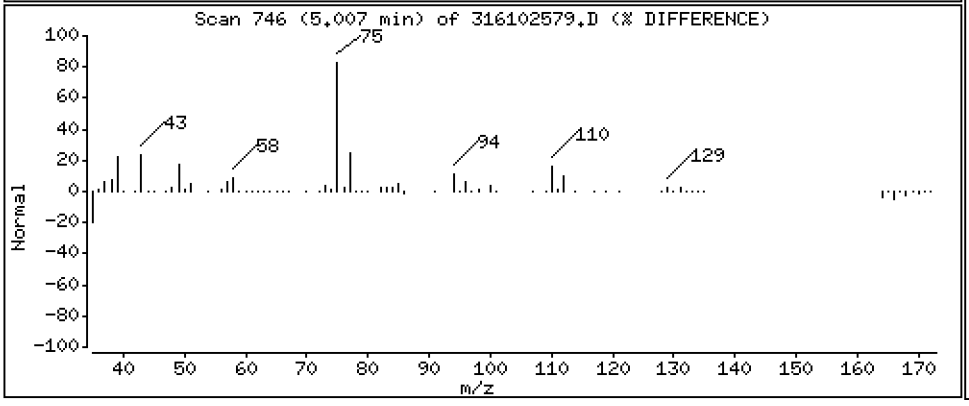












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 84

Date : 26-OCT-2016 08:14

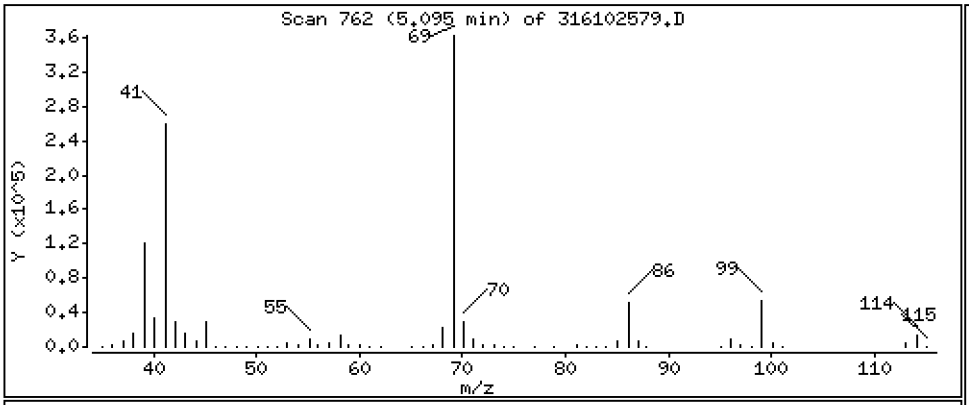
Client ID: Instrument: ms03.i

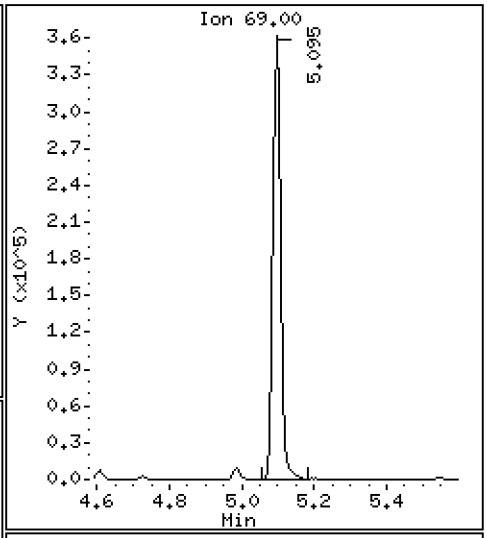
Sample Info: 1801;;1;2;4;;;

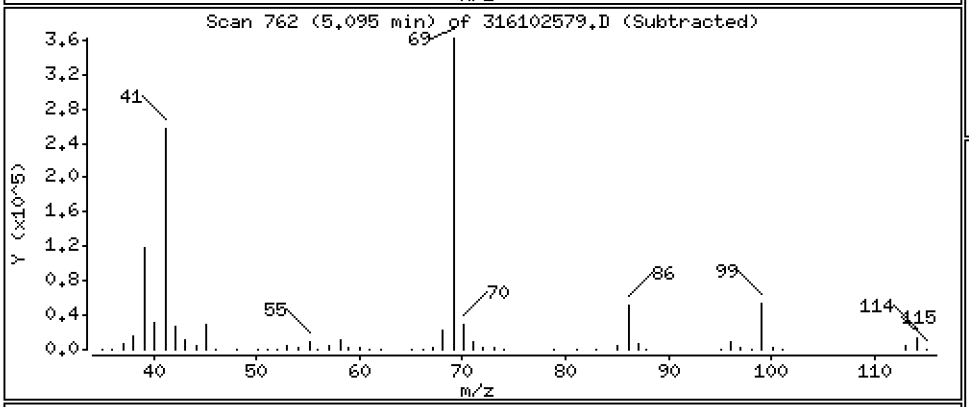
Purge Volume: 5.0 Operator: CJG

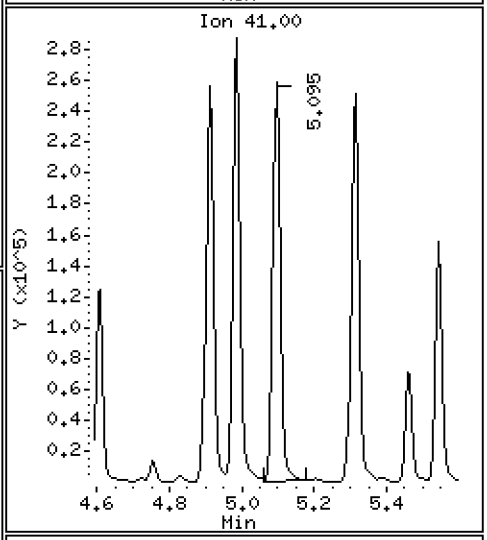
Column phase: DB-VRX Column diameter: 0.25

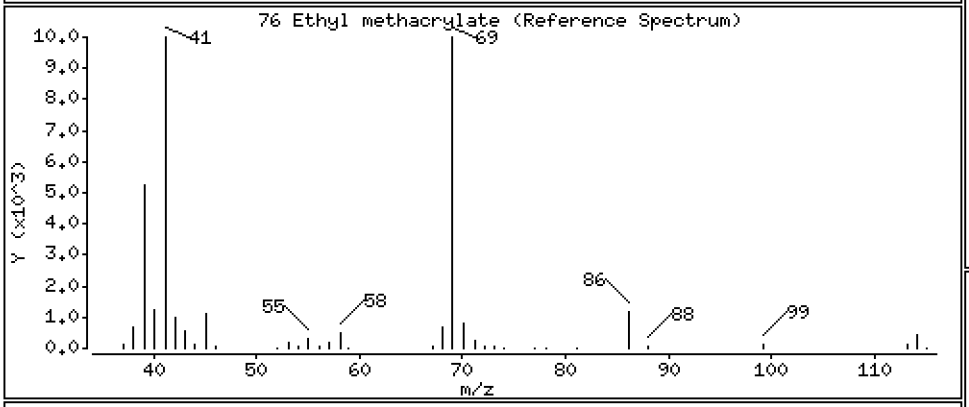
76 Ethyl methacrylate Concentration: 52.7661 ug/L

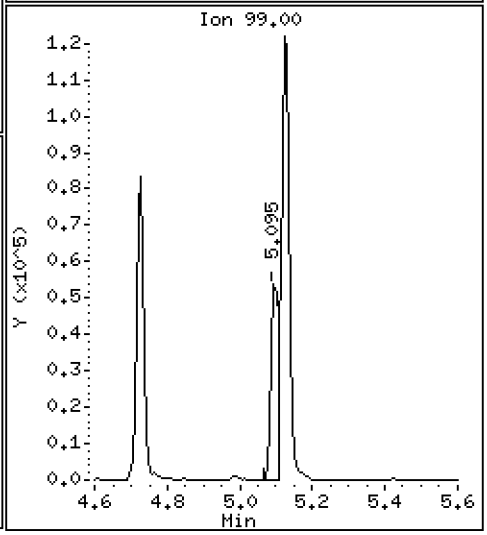


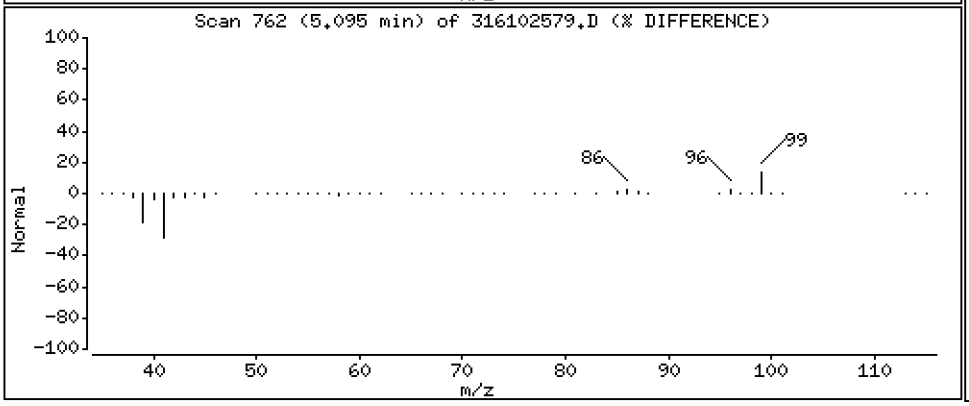












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 85

Date : 26-OCT-2016 08:14

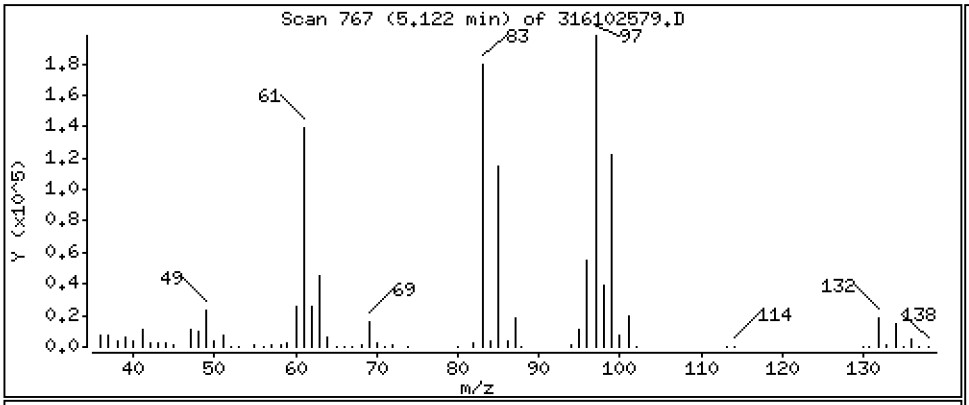
Client ID: Instrument: ms03.i

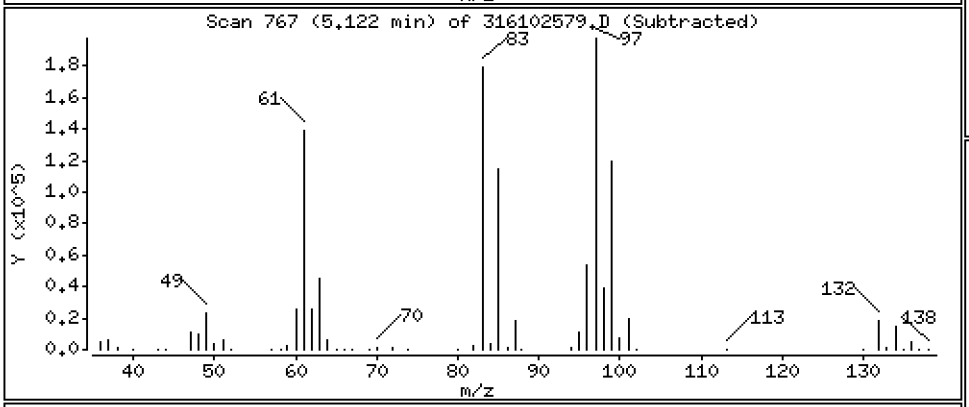
Sample Info: 1801;;1;2;4;;;

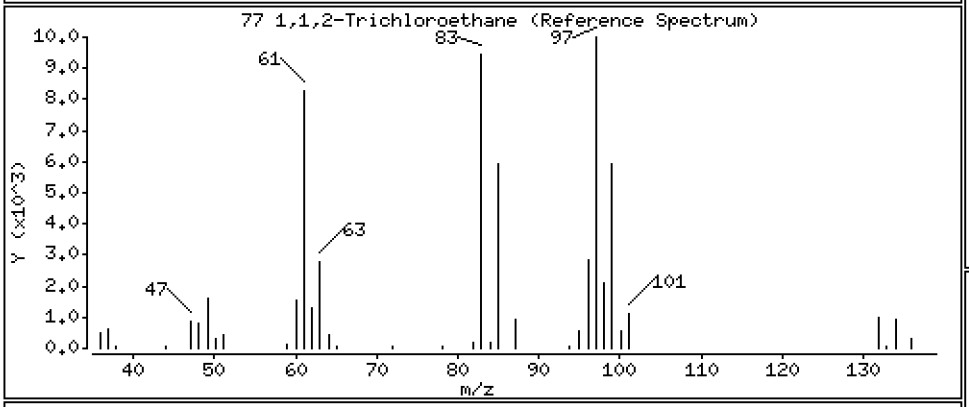
Purge Volume: 5.0 Operator: CJG

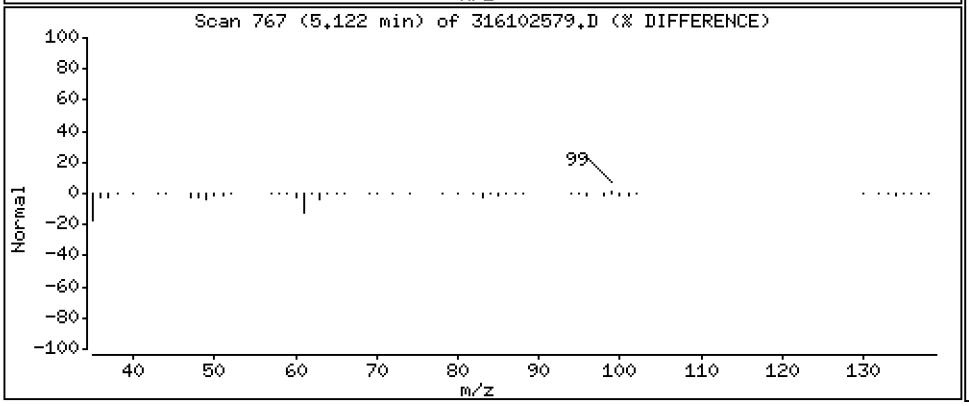
Column phase: DB-VRX Column diameter: 0.25

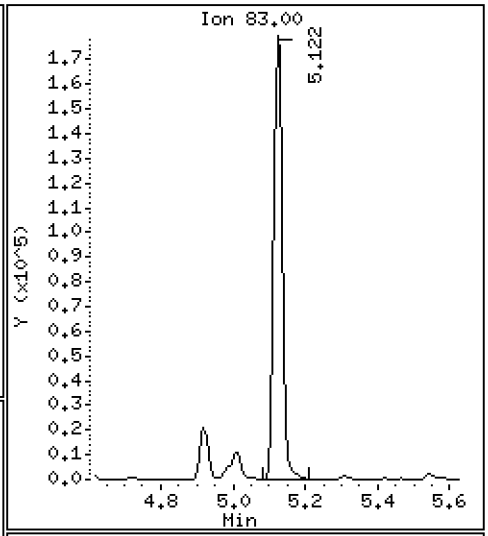
77 1,1,2-Trichloroethane Concentration: 46.2111 ug/L

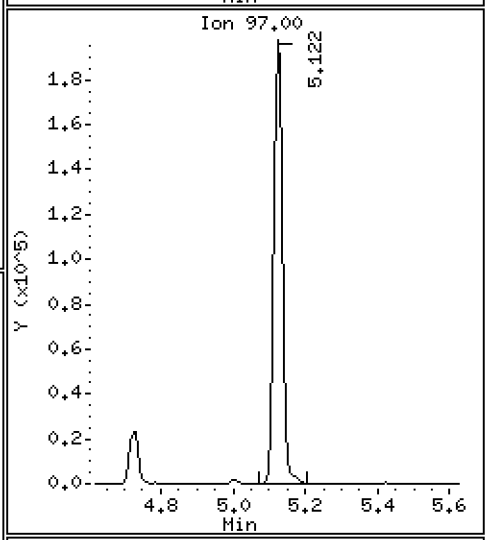


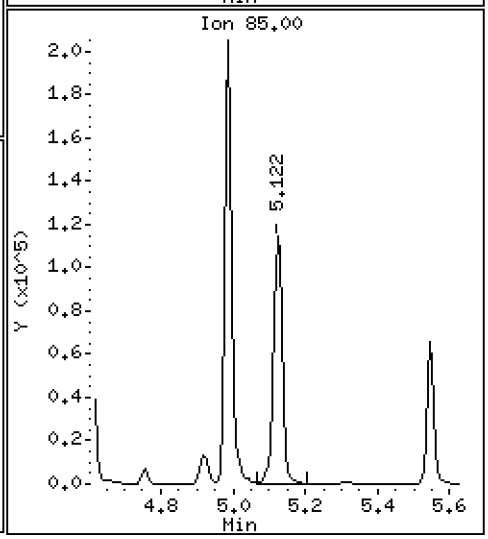












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 86

Date : 26-OCT-2016 08:14

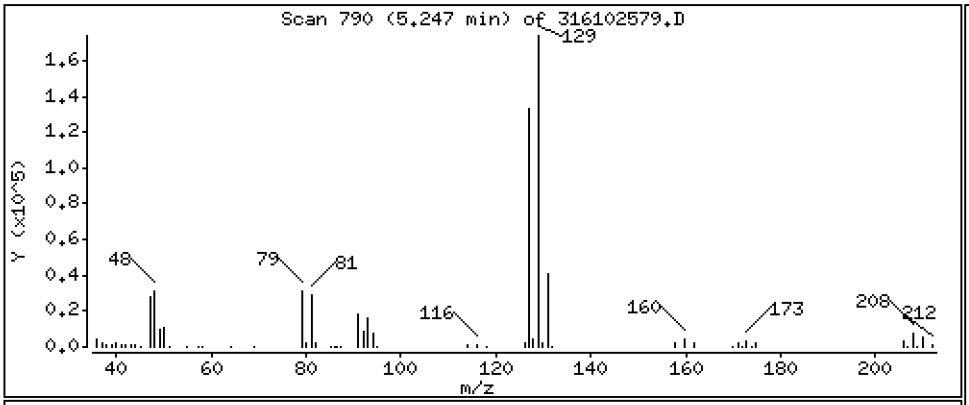
Client ID: Instrument: ms03.i

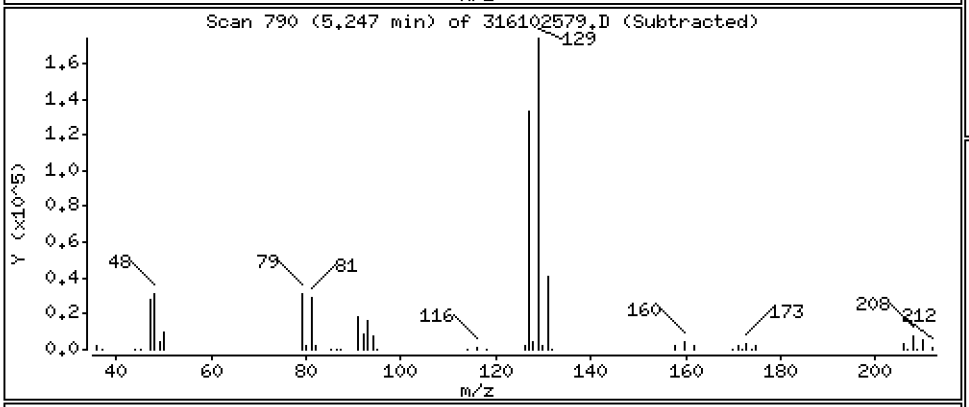
Sample Info: 1801;;1;2;4;;;

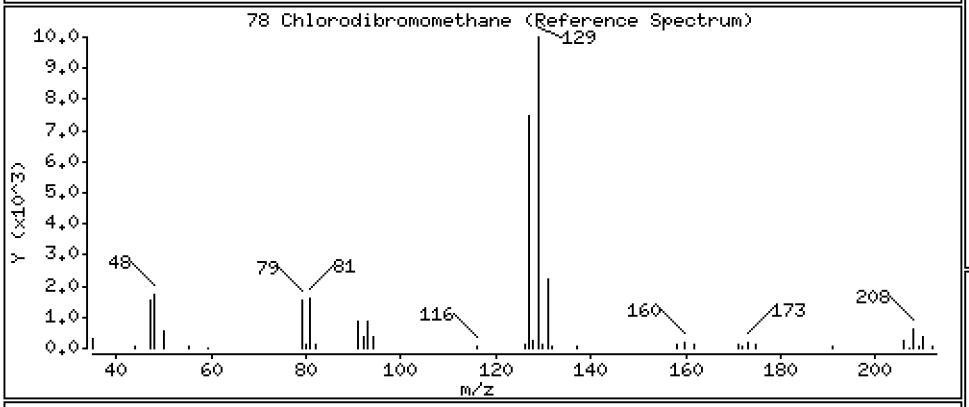
Purge Volume: 5.0 Operator: CJG

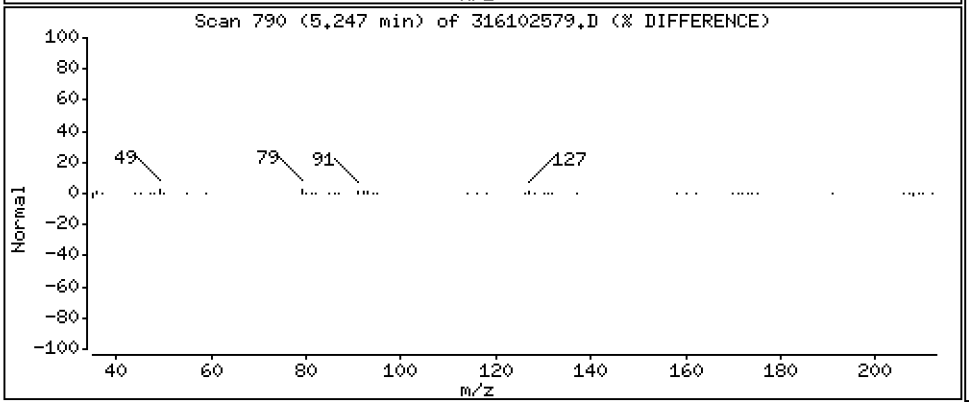
Column phase: DB-VRX Column diameter: 0.25

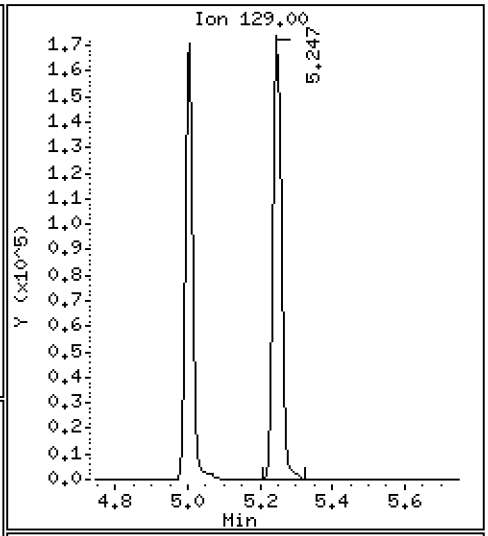
78 Chlorodibromomethane Concentration: 48.2541 ug/L

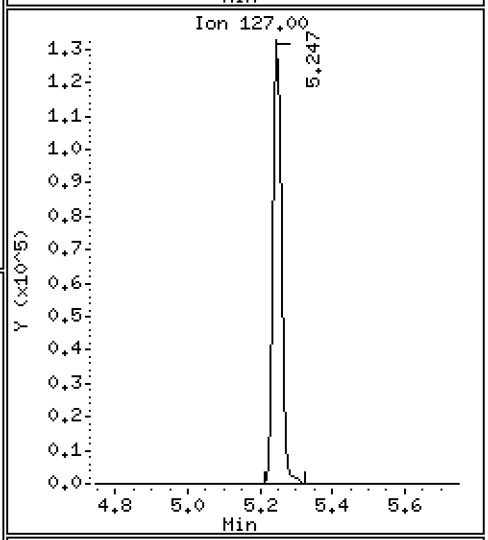


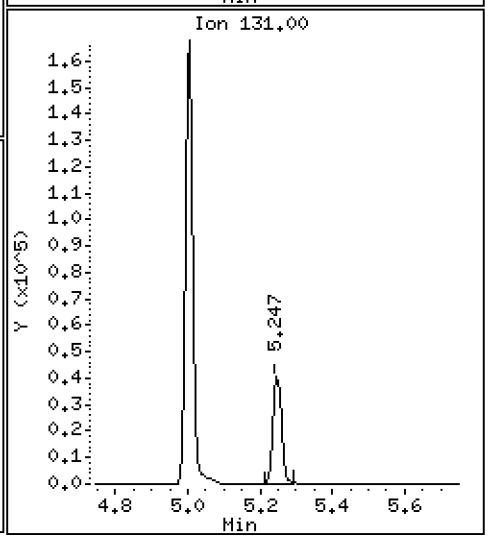












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 87

Date : 26-OCT-2016 08:14

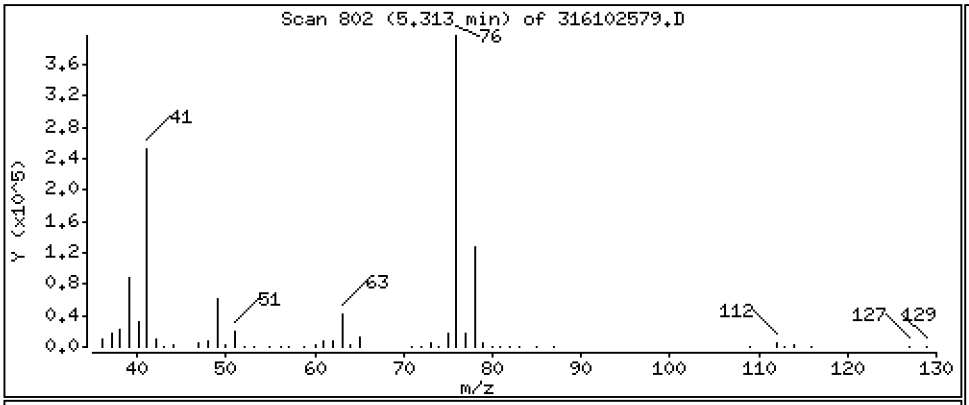
Client ID: Instrument: ms03.i

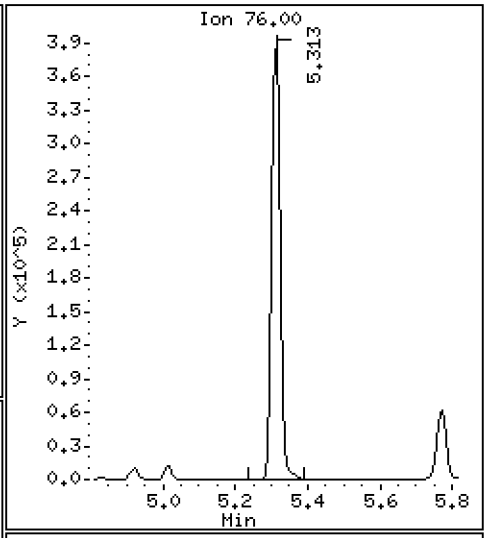
Sample Info: 1801;;1;2;4;;;

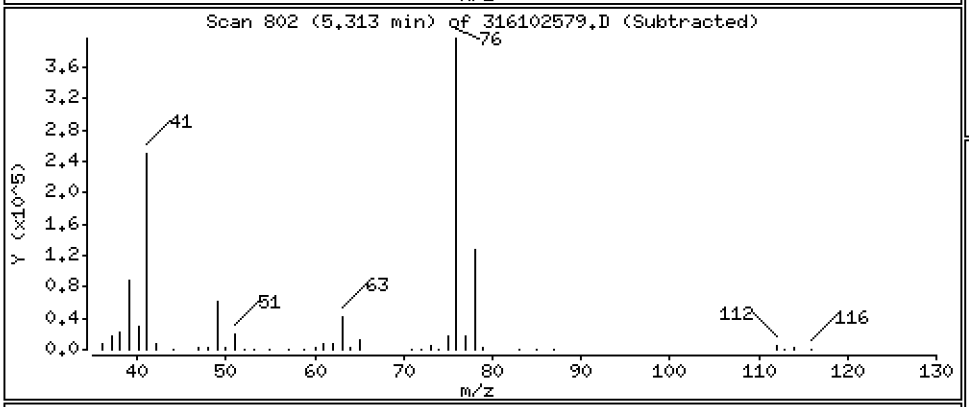
Purge Volume: 5.0 Operator: CJG

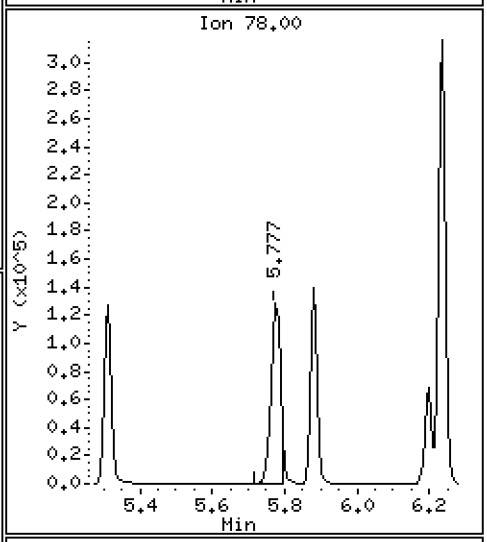
Column phase: DB-VRX Column diameter: 0.25

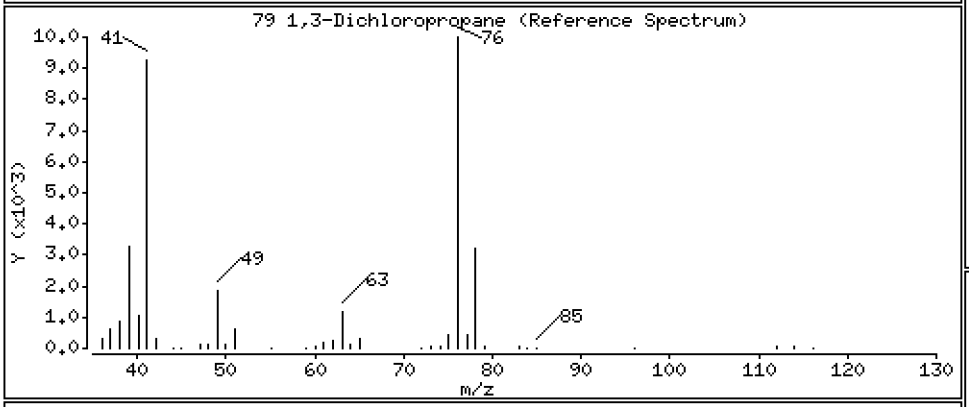
79 1,3-Dichloropropane Concentration: 46.0649 ug/L

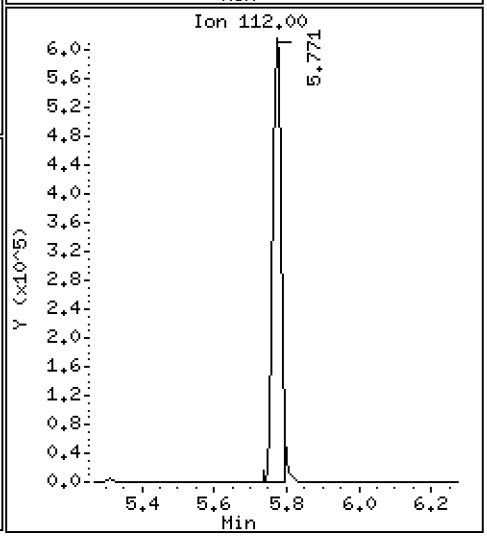


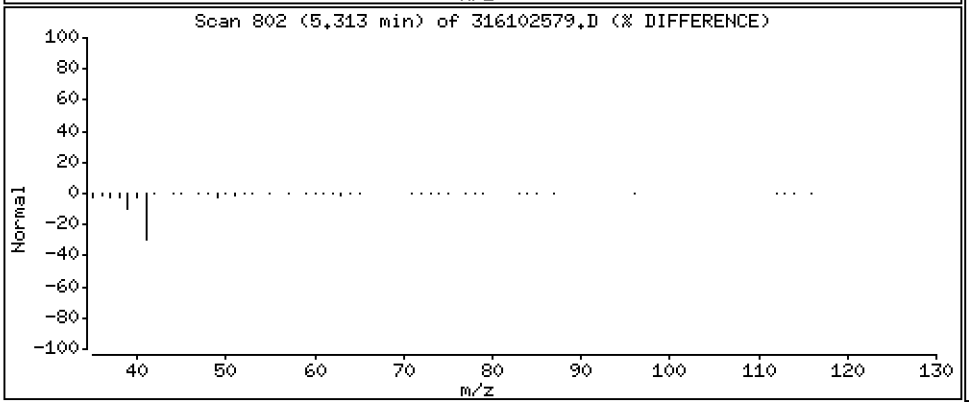












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 88

Date : 26-OCT-2016 08:14

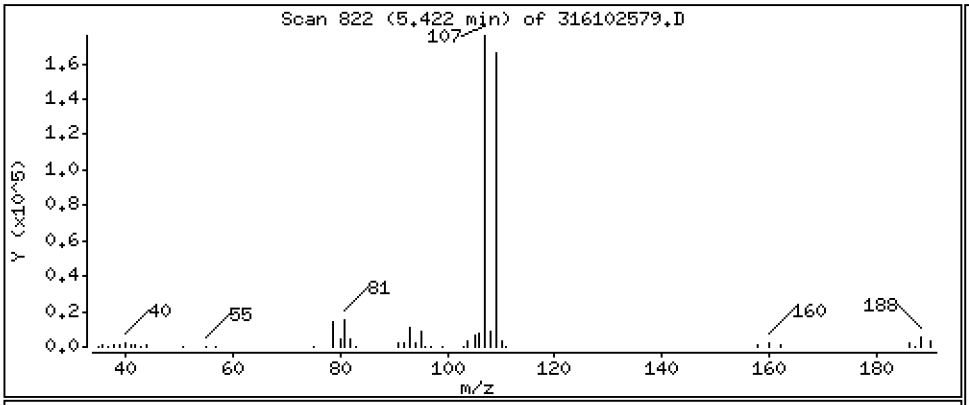
Client ID: Instrument: ms03.i

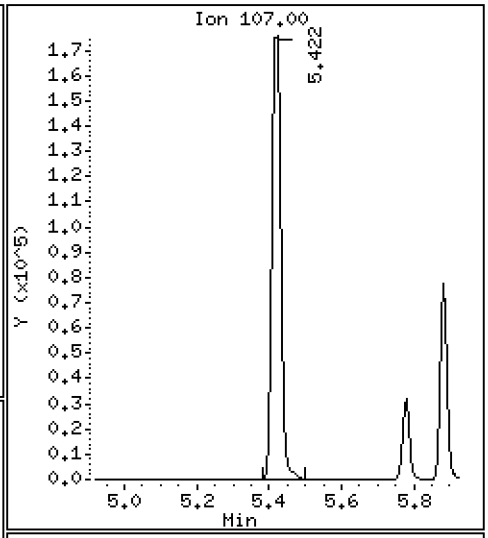
Sample Info: 1801;;1;2;4;;;

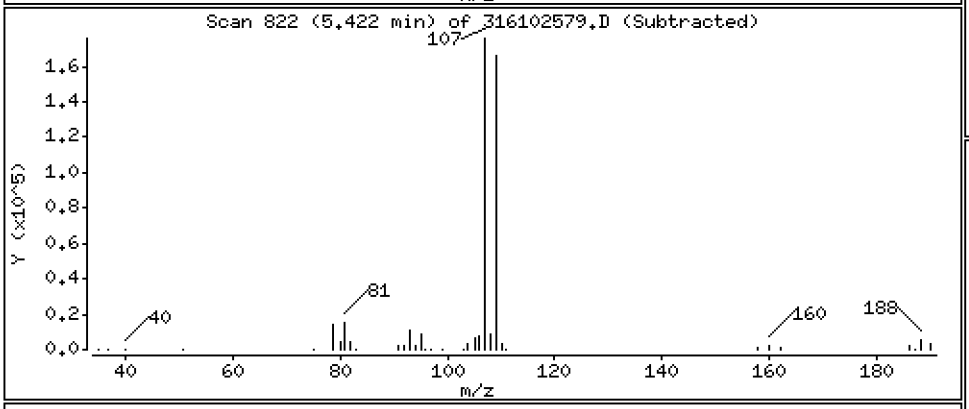
Purge Volume: 5.0 Operator: CJG

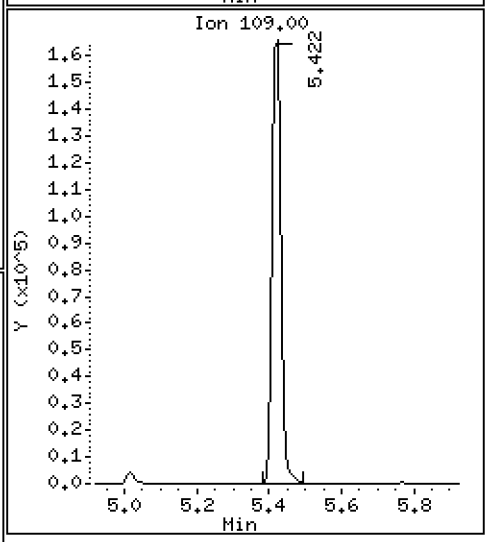
Column phase: DB-VRX Column diameter: 0.25

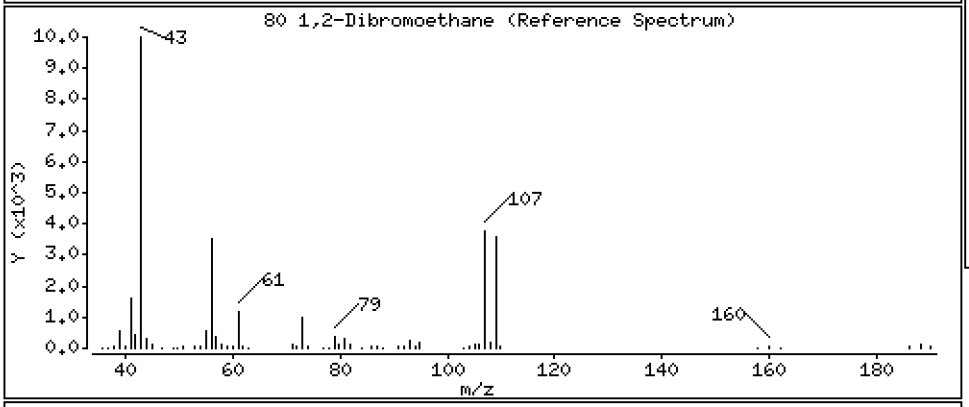
80 1,2-Dibromoethane Concentration: 46.5625 ug/L

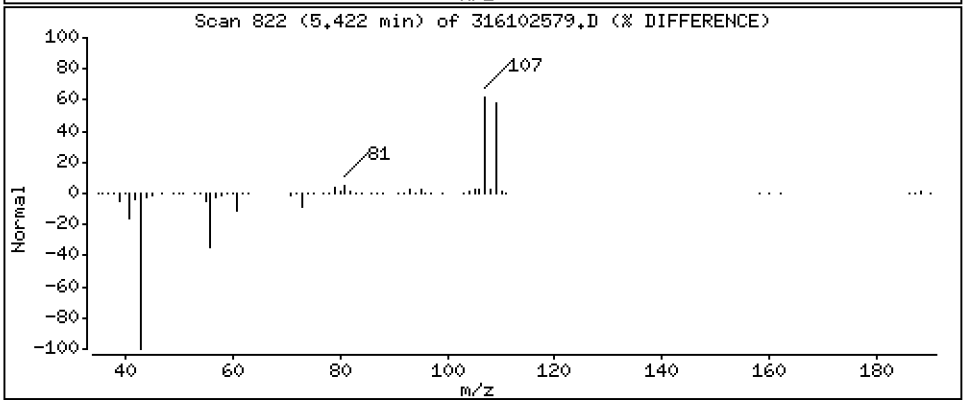












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 89

Date : 26-OCT-2016 08:14

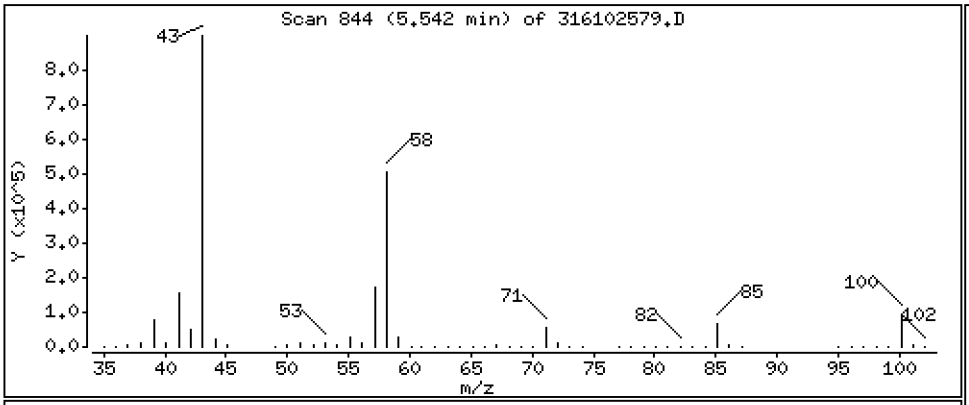
Client ID: Instrument: ms03.i

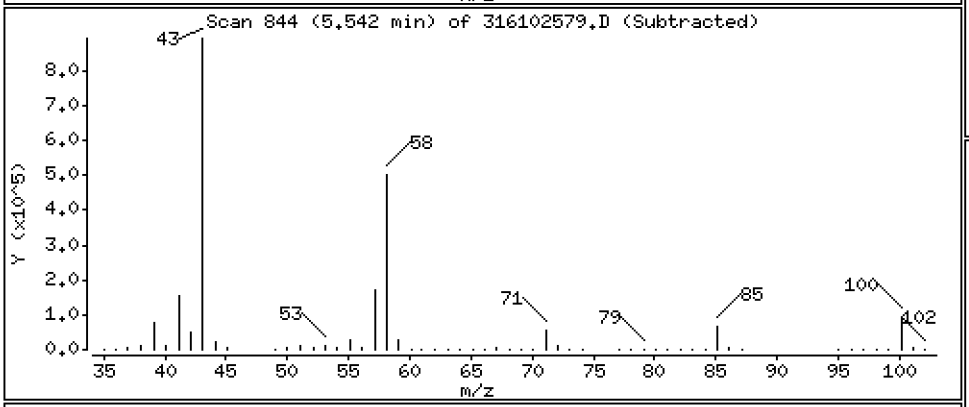
Sample Info: 1801;;1;2;4;;;

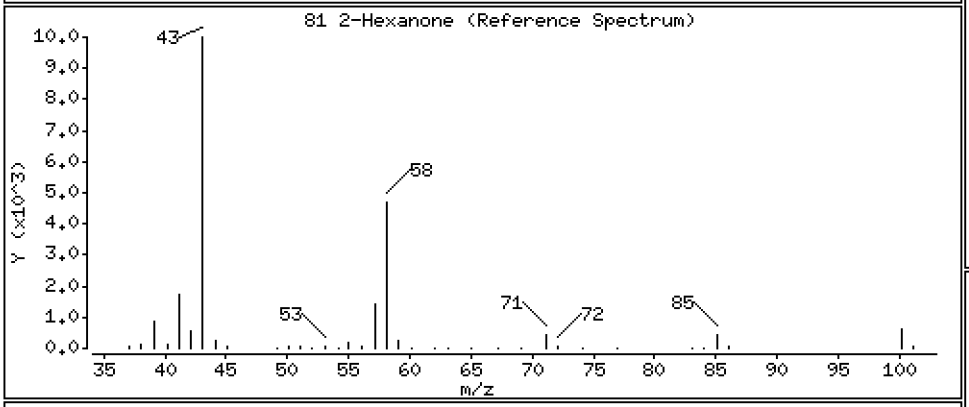
Purge Volume: 5.0 Operator: CJG

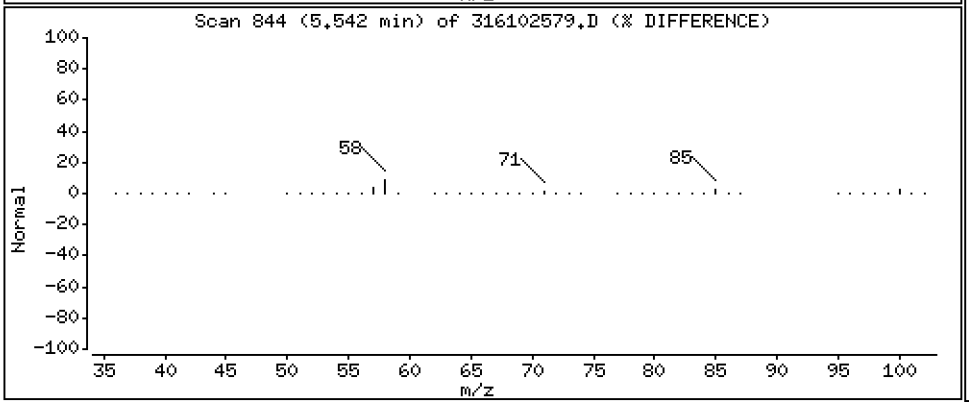
Column phase: DB-VRX Column diameter: 0.25

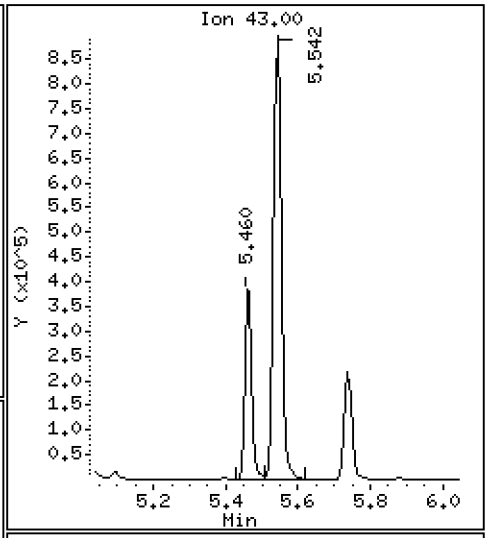
81 2-Hexanone Concentration: 277.800 ug/L

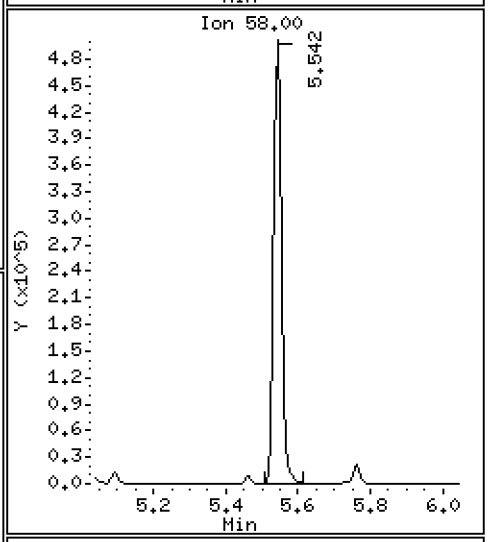


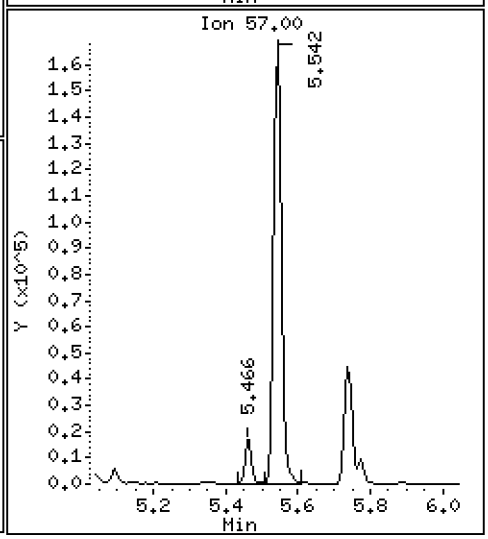












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 90

Date : 26-OCT-2016 08:14

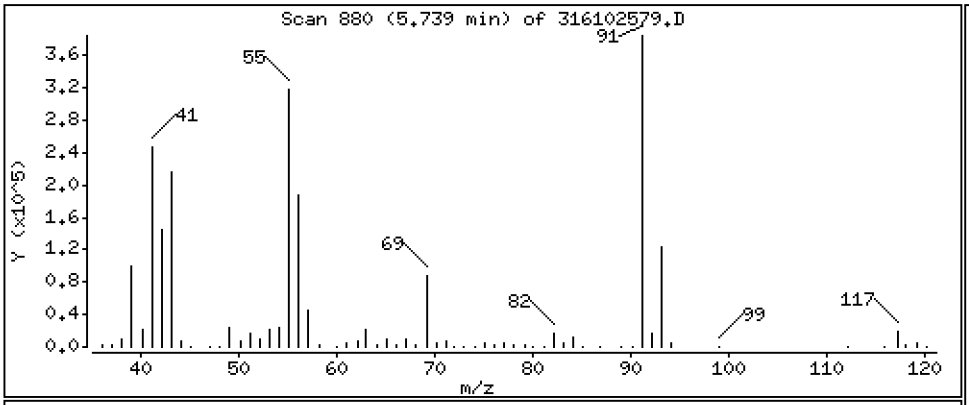
Client ID: Instrument: ms03.i

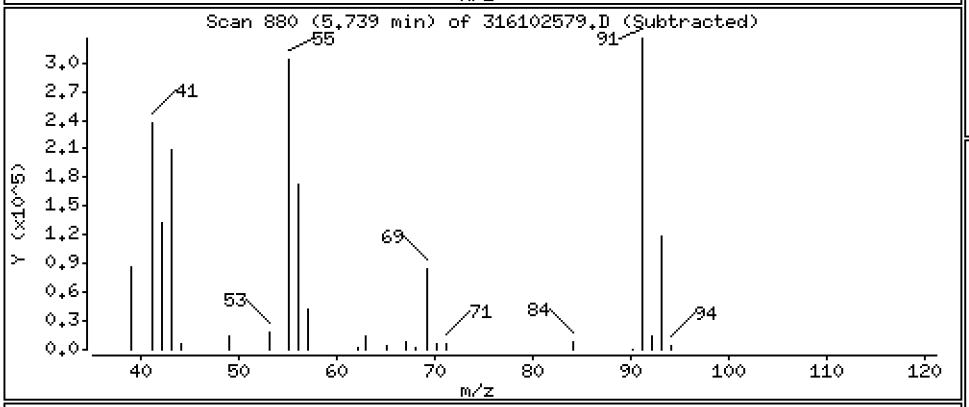
Sample Info: 1801;;1;2;4;;;

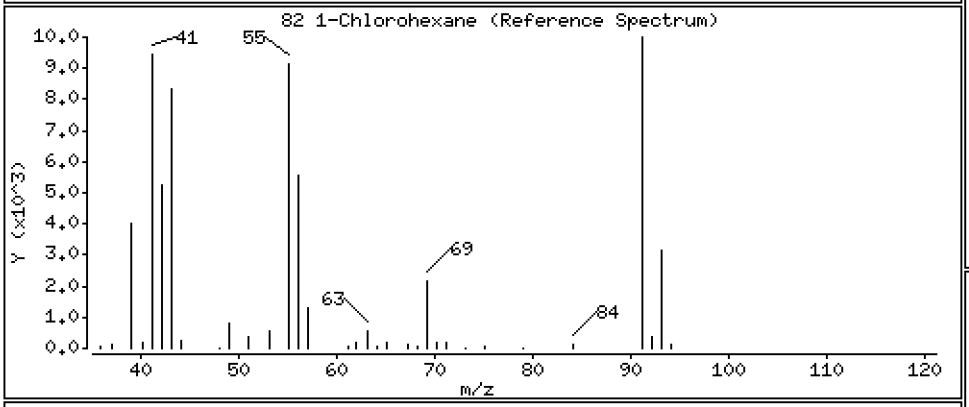
Purge Volume: 5.0 Operator: CJG

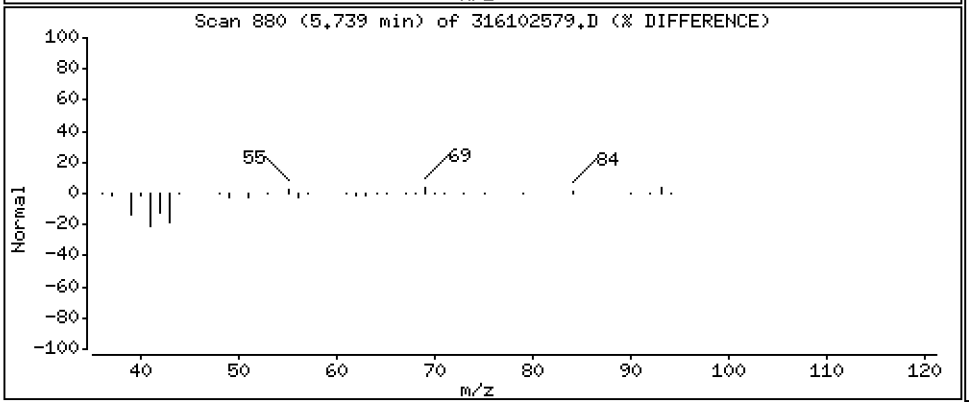
Column phase: DB-VRX Column diameter: 0.25

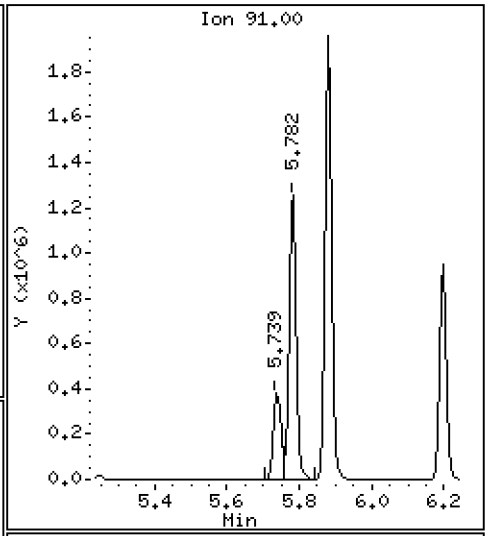
82 1-Chlorohexane Concentration: 48.4747 ug/L

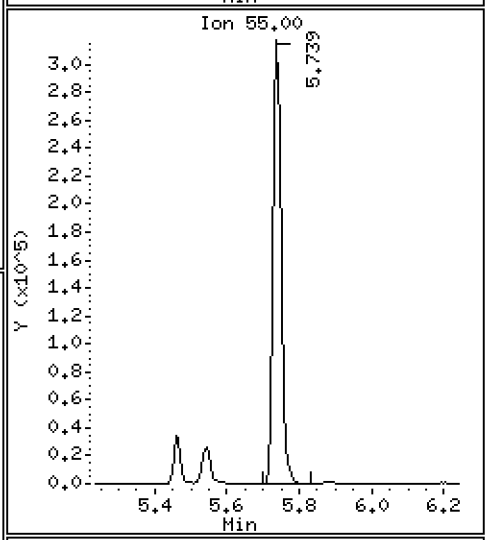


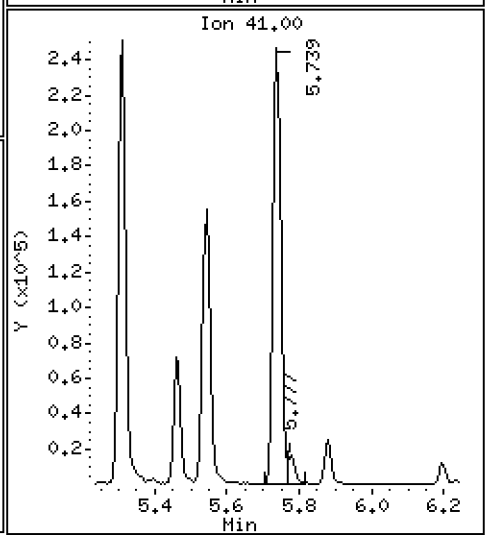












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 91

Date : 26-OCT-2016 08:14

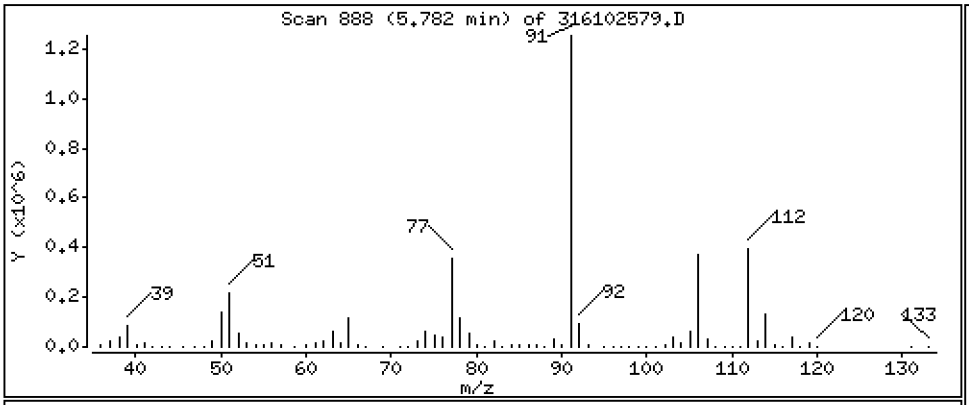
Client ID: Instrument: ms03.i

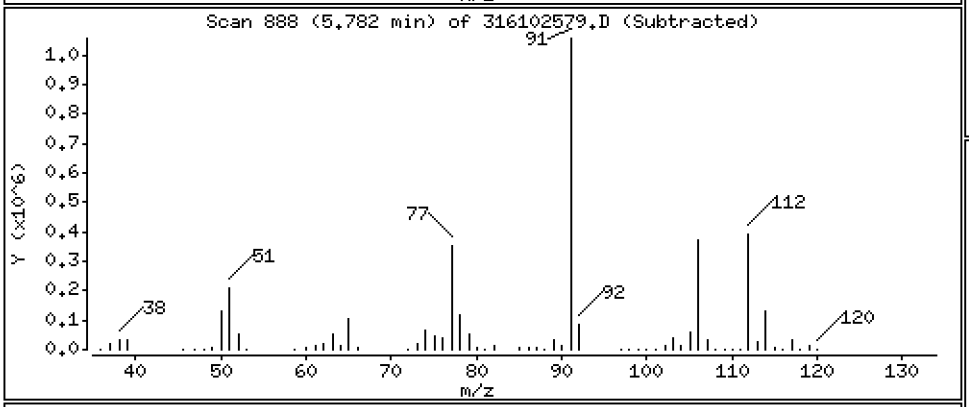
Sample Info: 1801;;1;2;4;;;

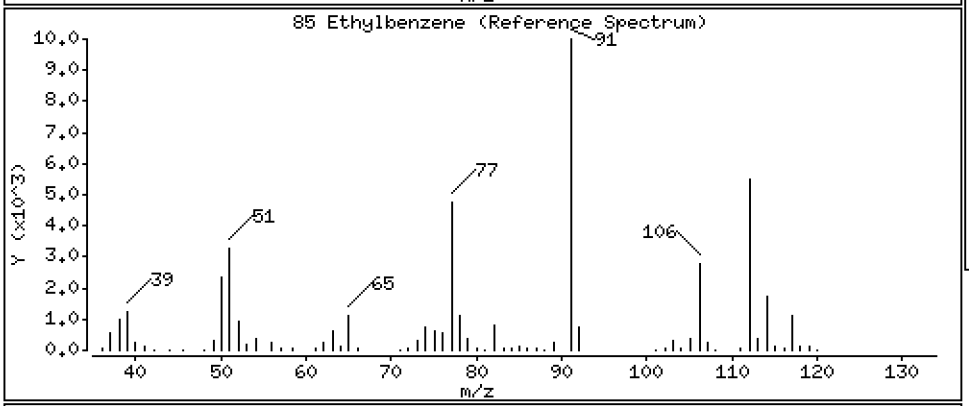
Purge Volume: 5.0 Operator: CJG

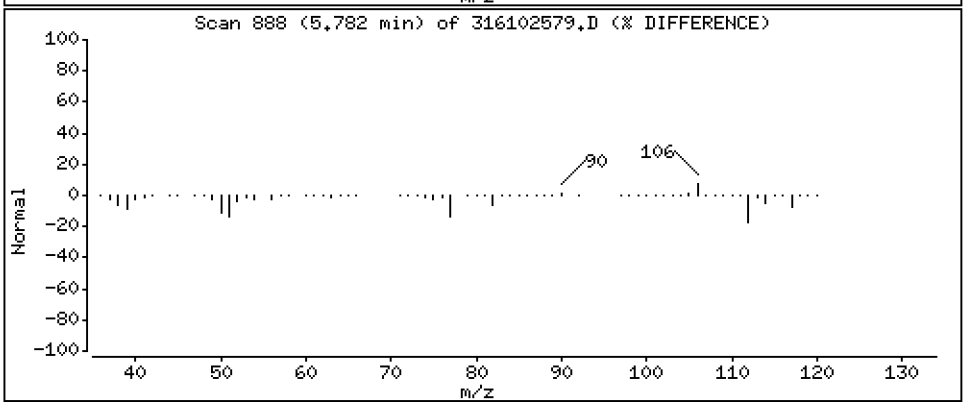
Column phase: DB-VRX Column diameter: 0.25

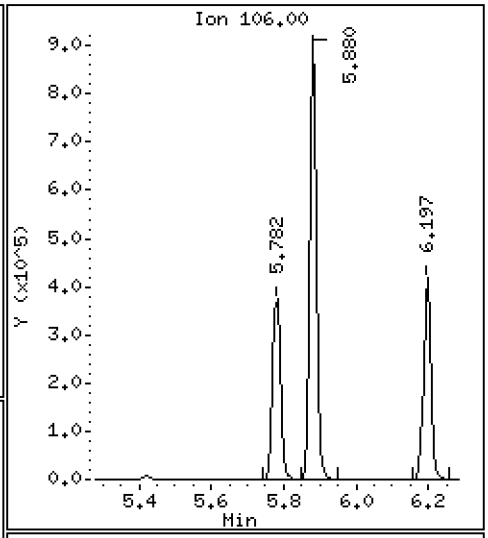
85 Ethylbenzene Concentration: 45.2366 ug/L

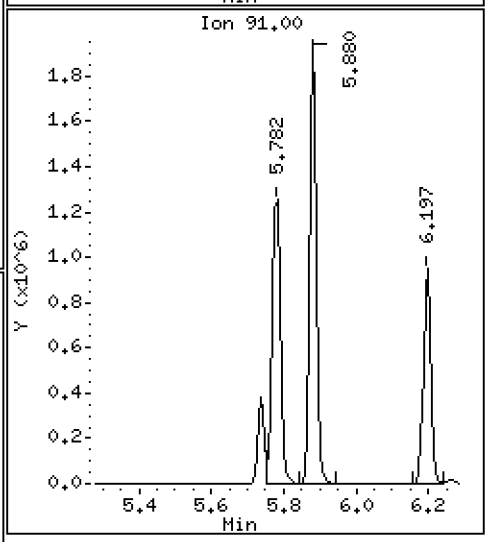












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 92

Date : 26-OCT-2016 08:14

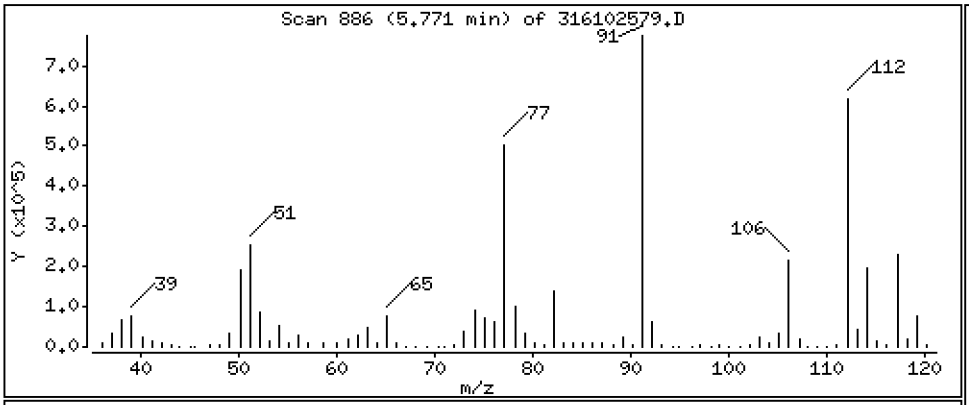
Client ID: Instrument: ms03.i

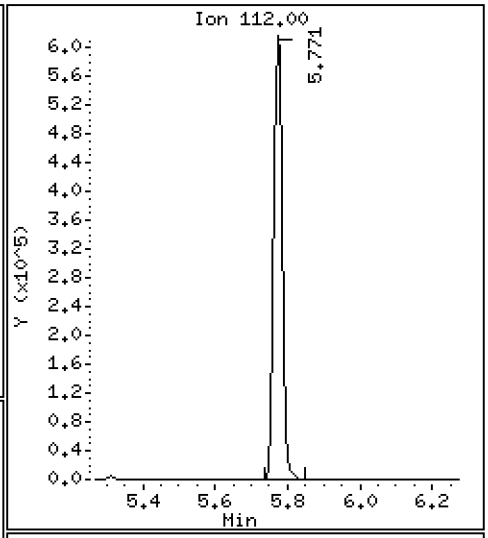
Sample Info: 1801;;1;2;4;;;

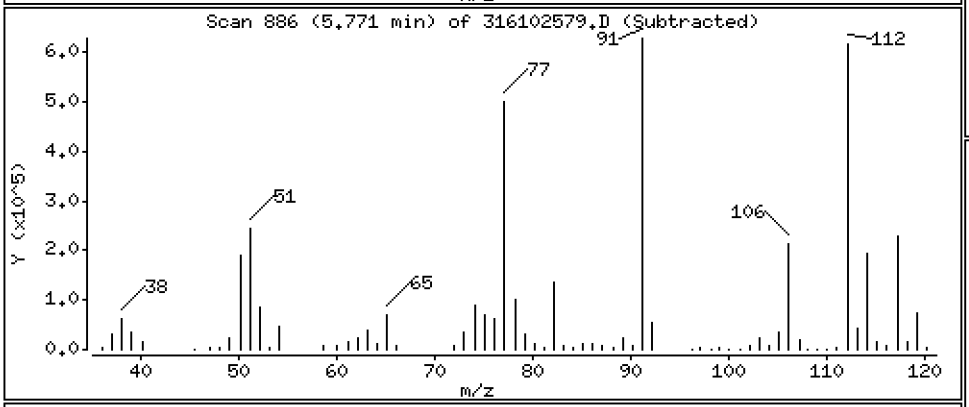
Purge Volume: 5.0 Operator: CJG

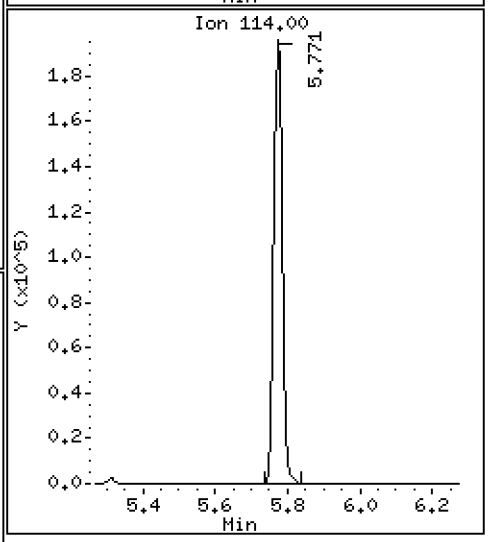
Column phase: DB-VRX Column diameter: 0.25

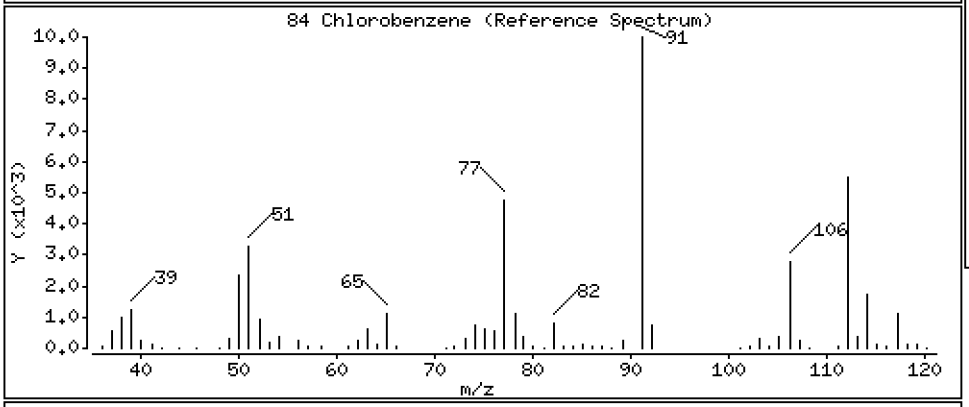
84 Chlorobenzene Concentration: 43.4187 ug/L

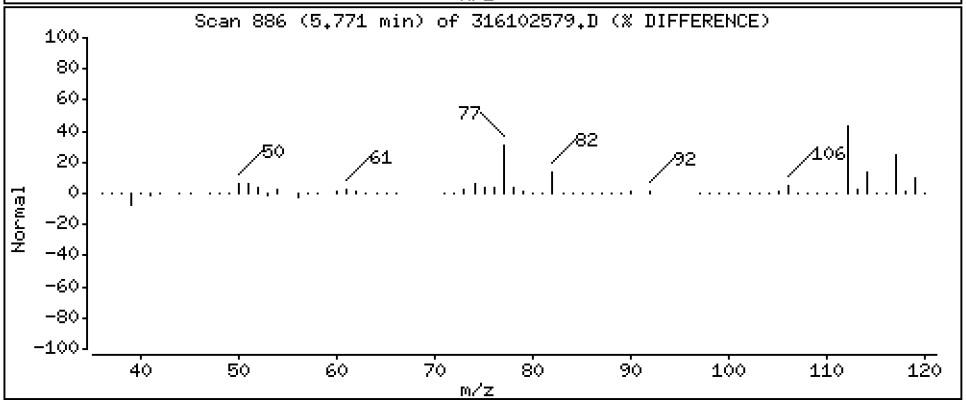












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 93

Date : 26-OCT-2016 08:14

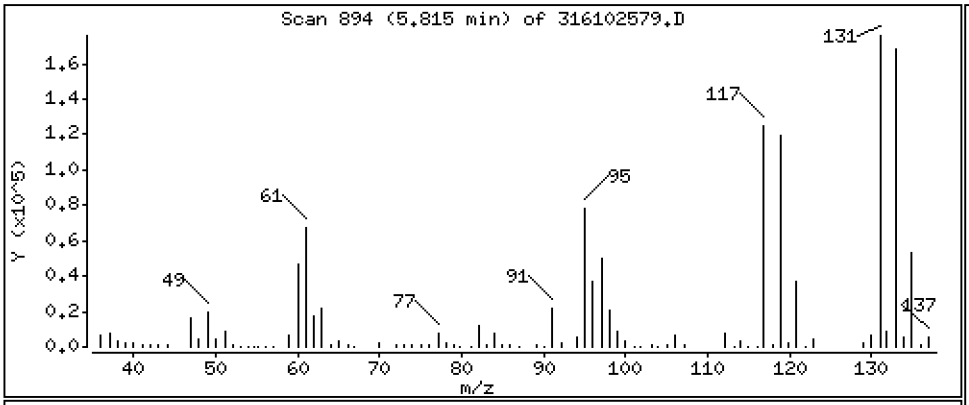
Client ID: Instrument: ms03.i

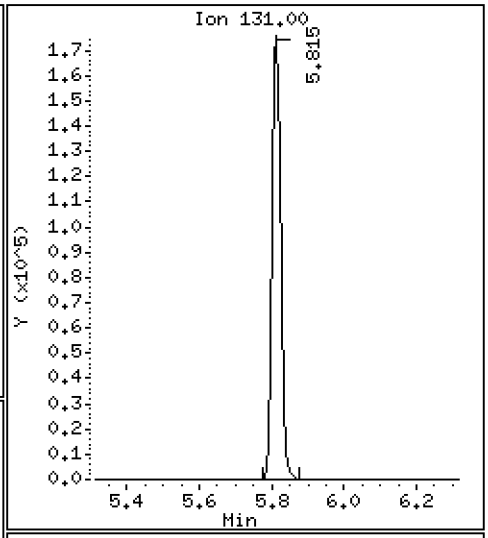
Sample Info: 1801;;1;2;4;;;

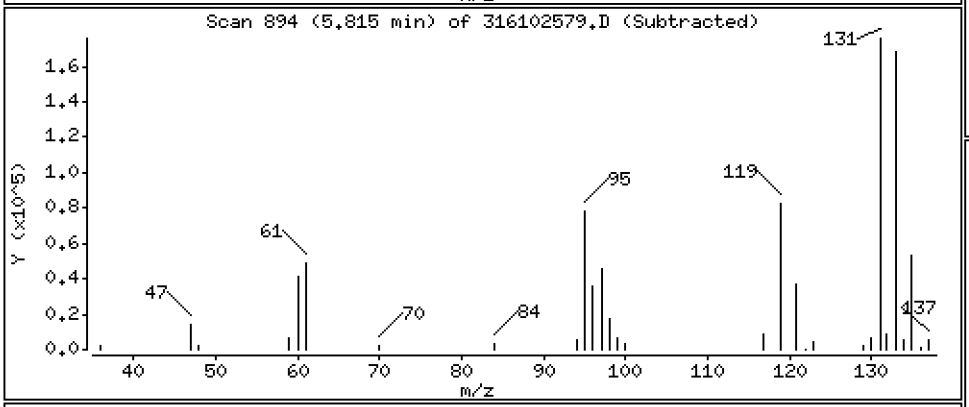
Purge Volume: 5.0 Operator: CJG

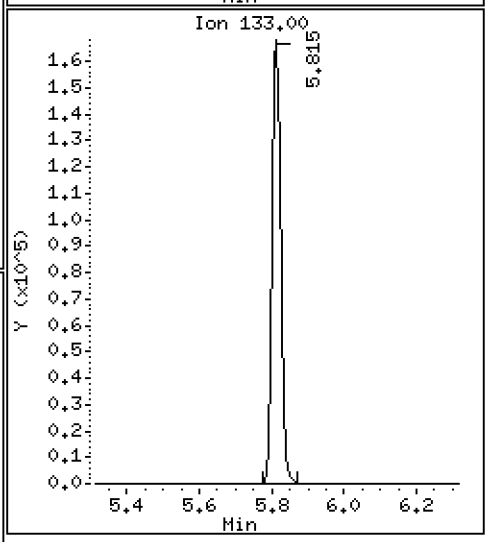
Column phase: DB-VRX Column diameter: 0.25

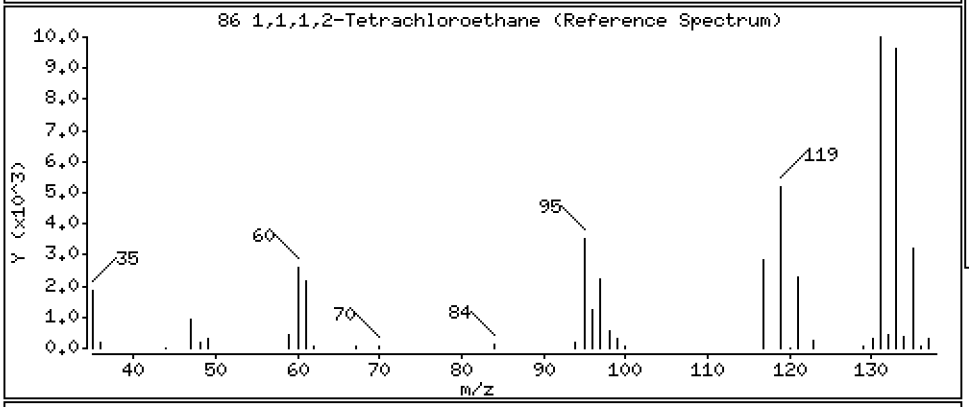
86 1,1,1,2-Tetrachloroethane Concentration: 47.8658 ug/L

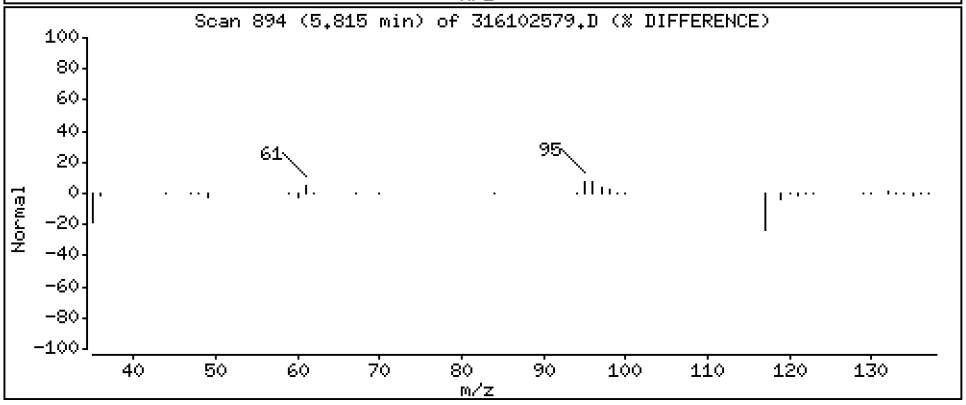












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 94

Date : 26-OCT-2016 08:14

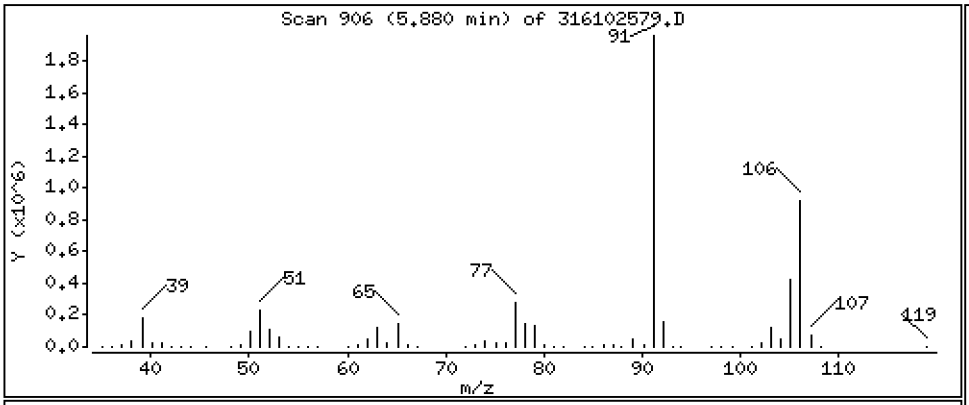
Client ID: Instrument: ms03.i

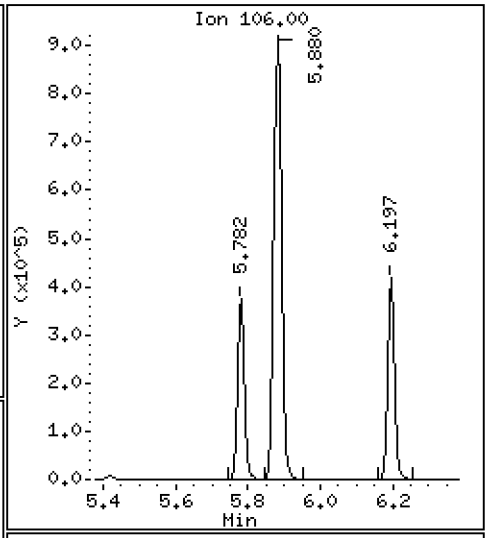
Sample Info: 1801;;1;2;4;;;

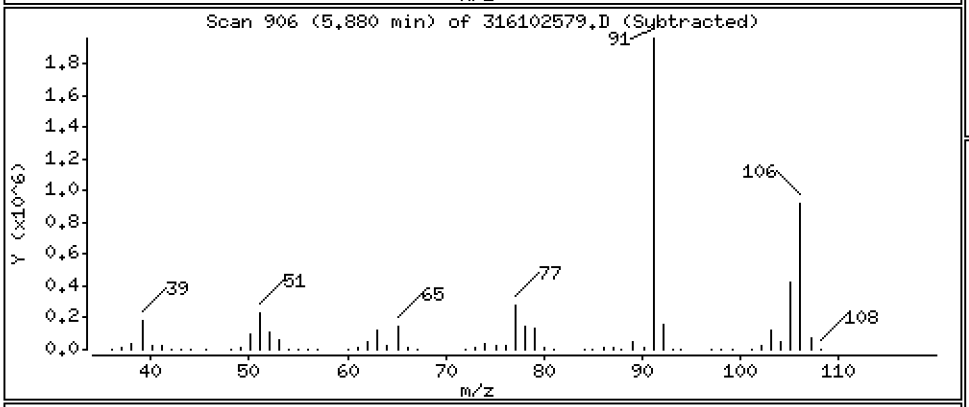
Purge Volume: 5.0 Operator: CJG

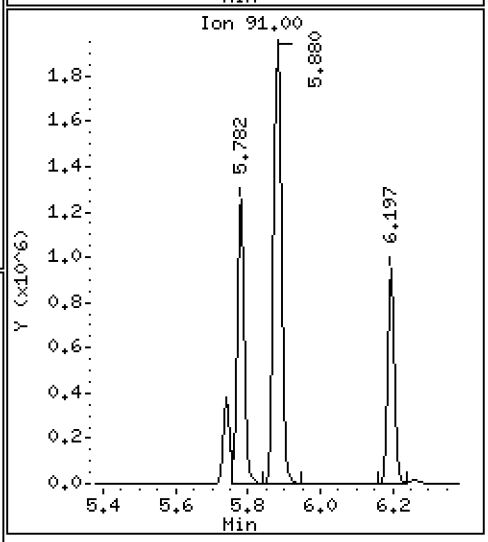
Column phase: DB-VRX Column diameter: 0.25

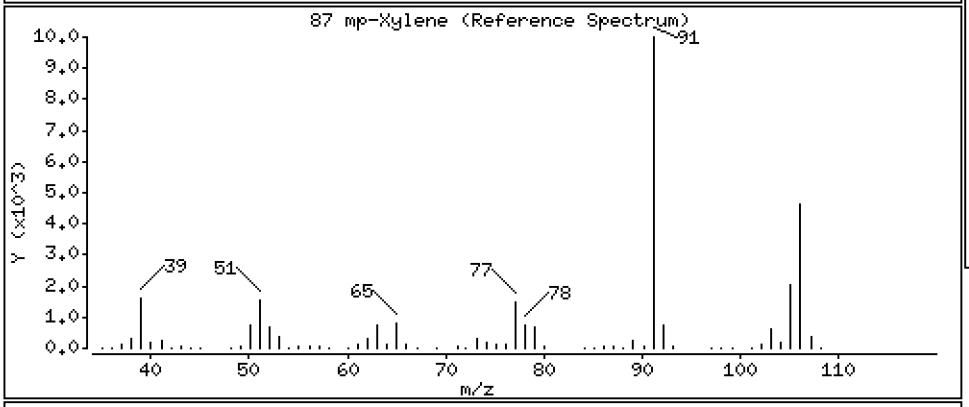
87 mp-Xylene Concentration: 92.6385 ug/L

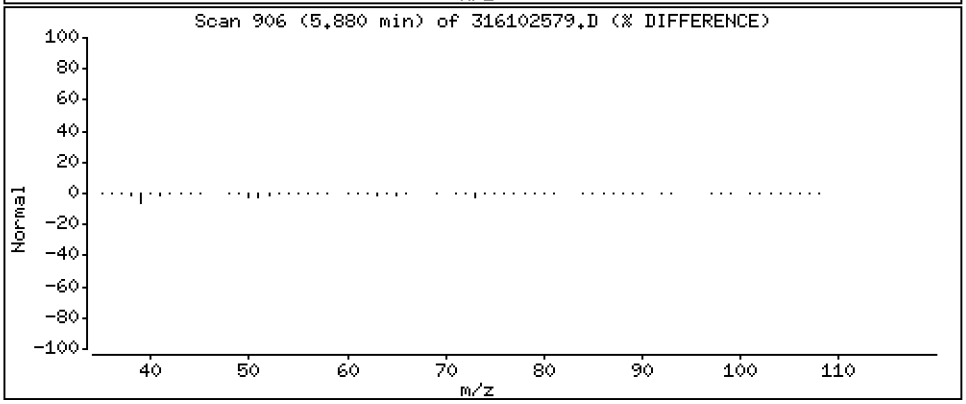












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 95

Date : 26-OCT-2016 08:14

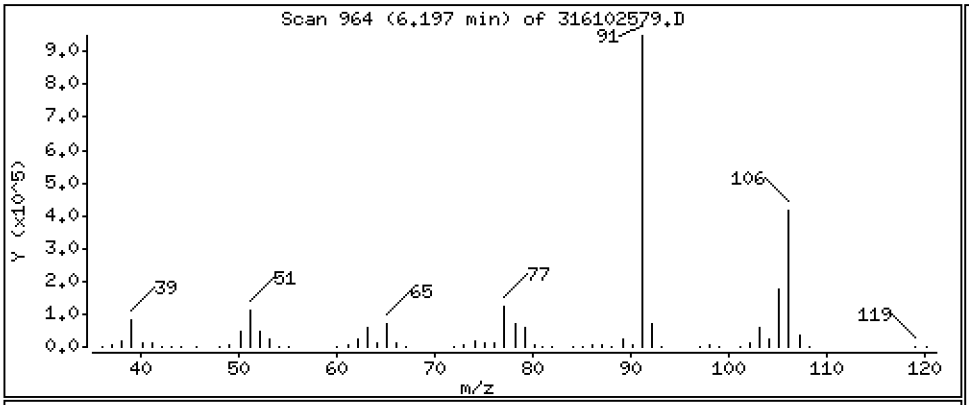
Client ID: Instrument: ms03.i

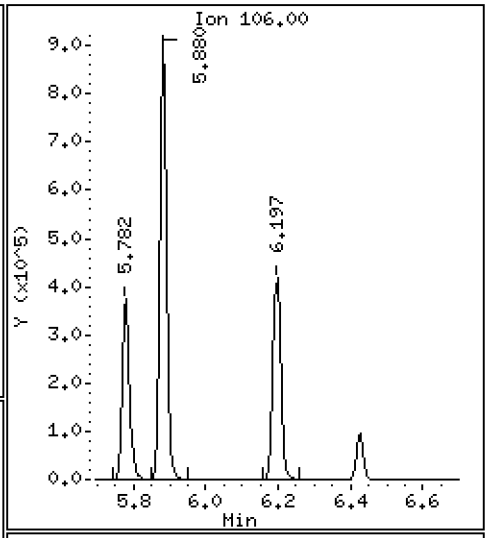
Sample Info: 1801;;1;2;4;;;

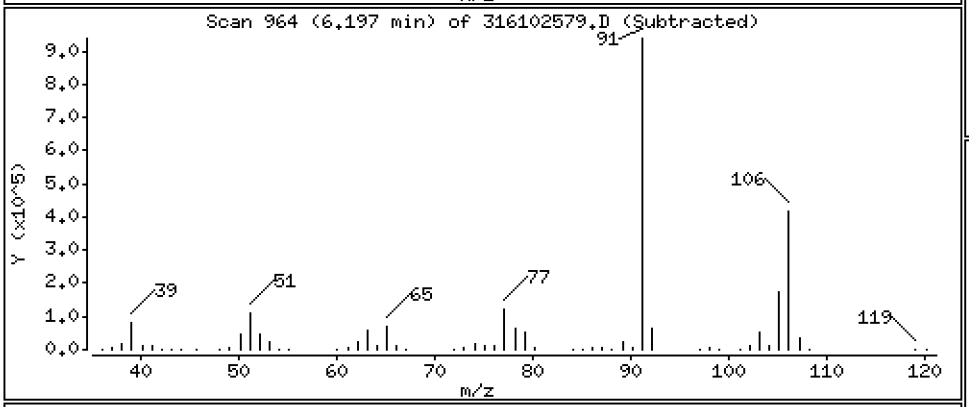
Purge Volume: 5.0 Operator: CJG

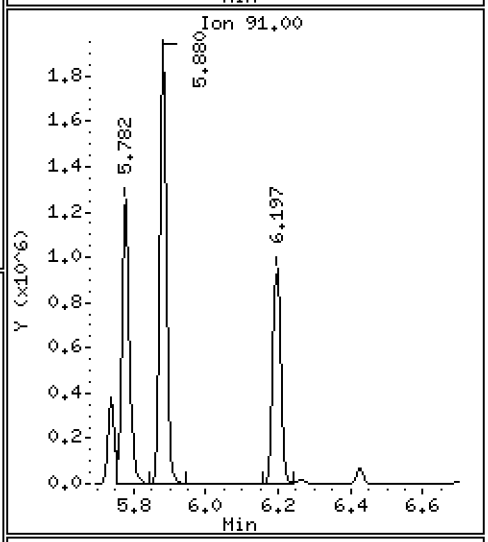
Column phase: DB-VRX Column diameter: 0.25

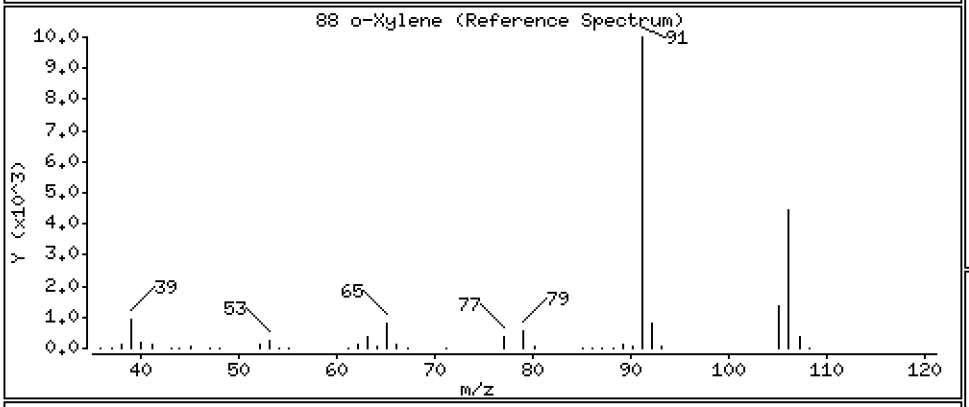
88 o-Xylene Concentration: 48.3318 ug/L

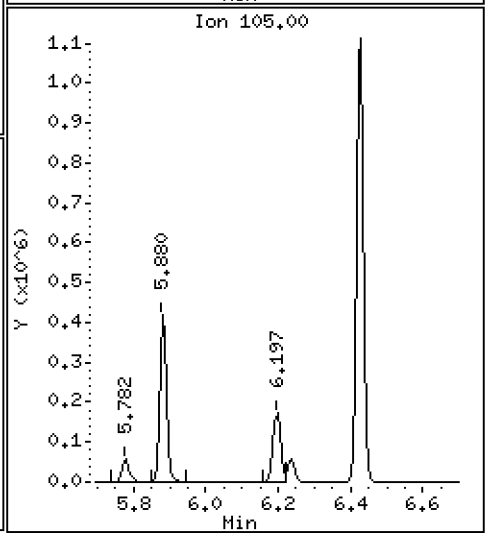


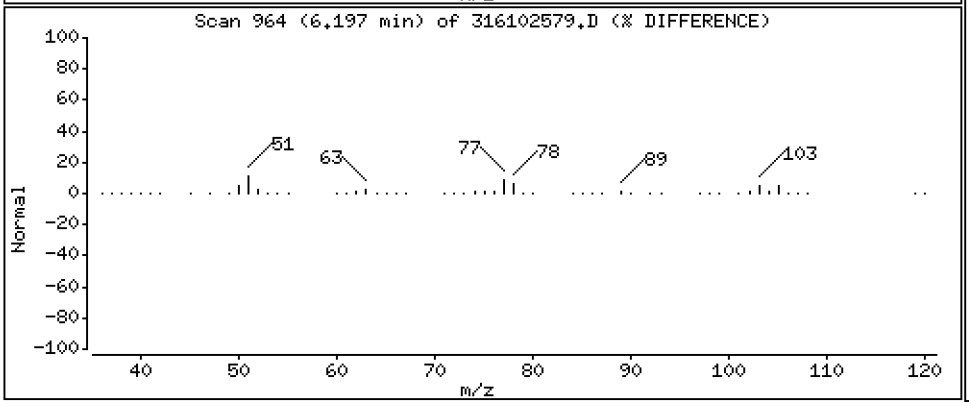












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 96

Date : 26-OCT-2016 08:14

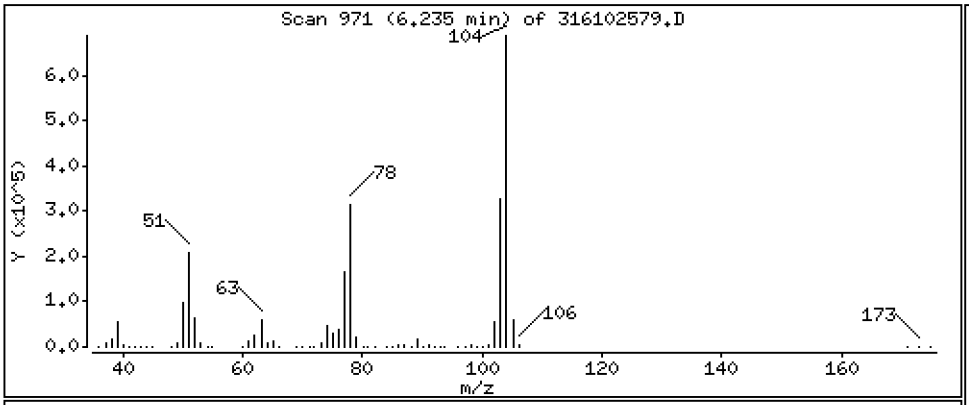
Client ID: Instrument: ms03.i

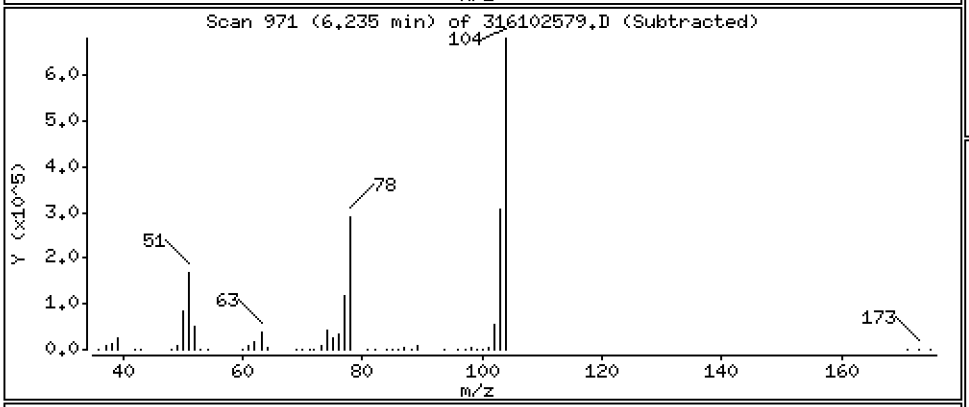
Sample Info: 1801;;1;2;4;;;

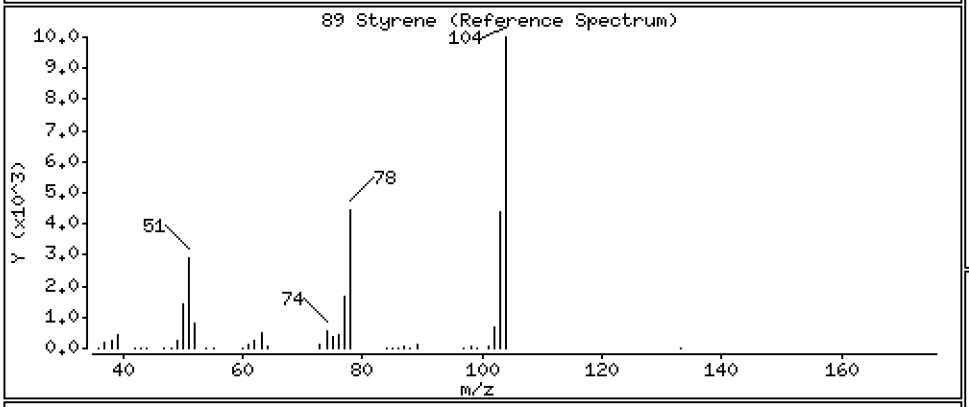
Purge Volume: 5.0 Operator: CJG

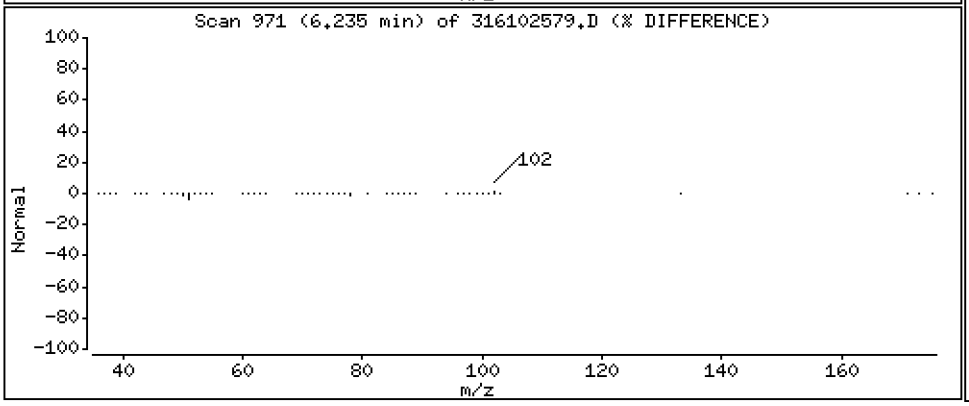
Column phase: DB-VRX Column diameter: 0.25

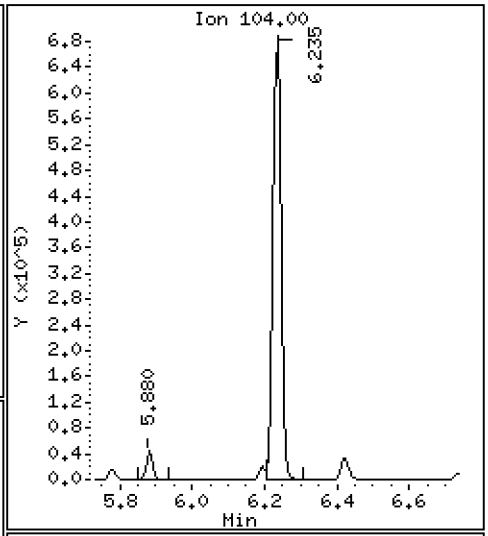
89 Styrene Concentration: 50.5106 ug/L

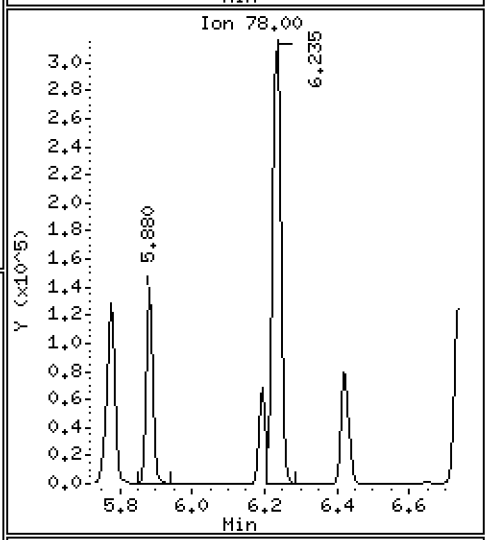


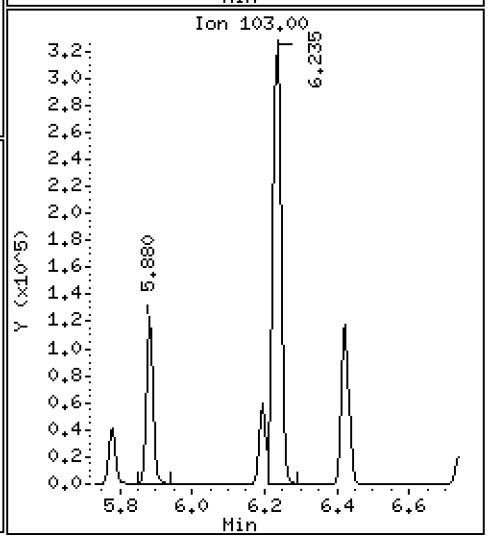












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 97

Date : 26-OCT-2016 08:14

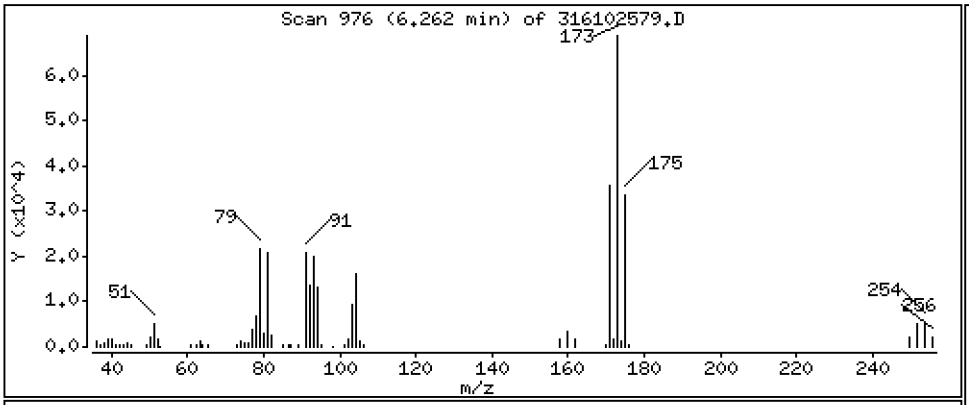
Client ID: Instrument: ms03.i

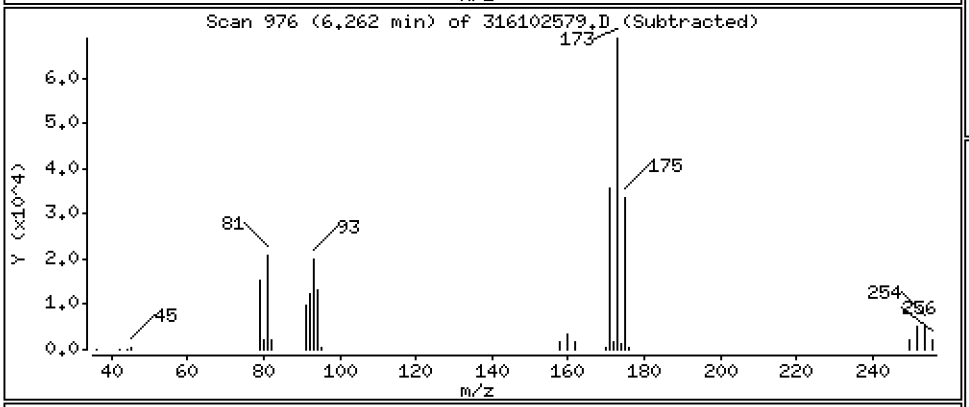
Sample Info: 1801;;1;2;4;;;

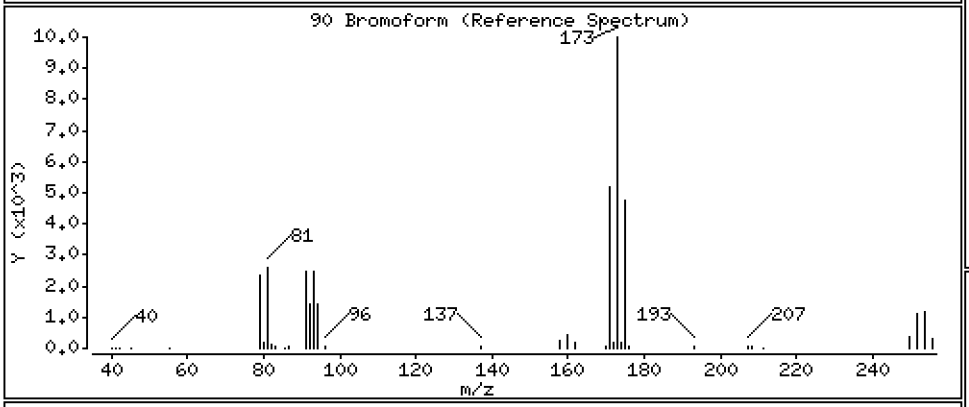
Purge Volume: 5.0 Operator: CJG

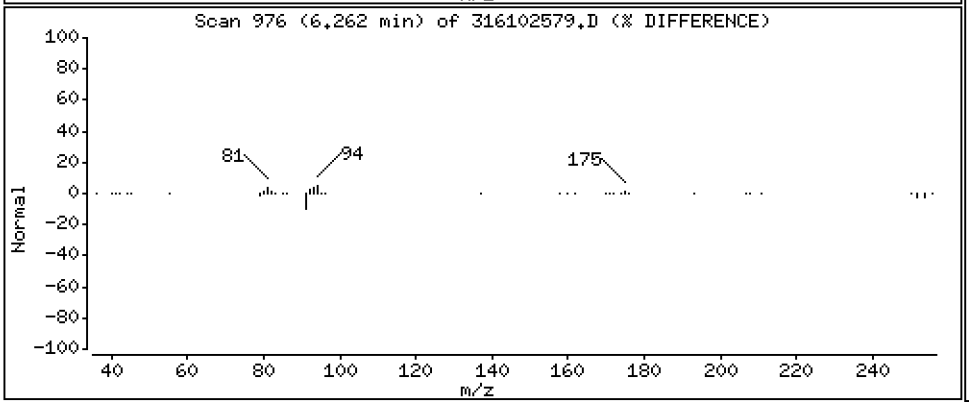
Column phase: DB-VRX Column diameter: 0.25

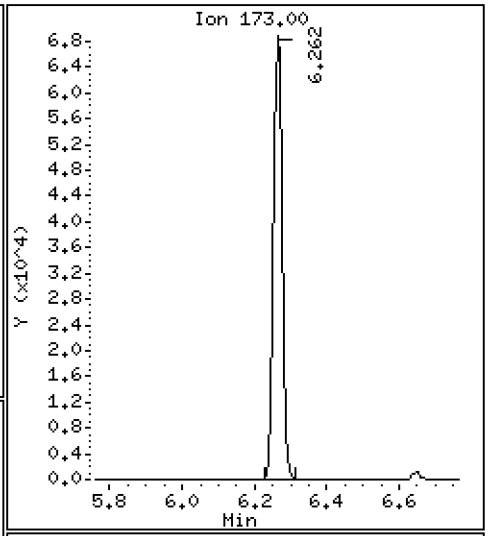
90 Bromoform Concentration: 42.5000 ug/L

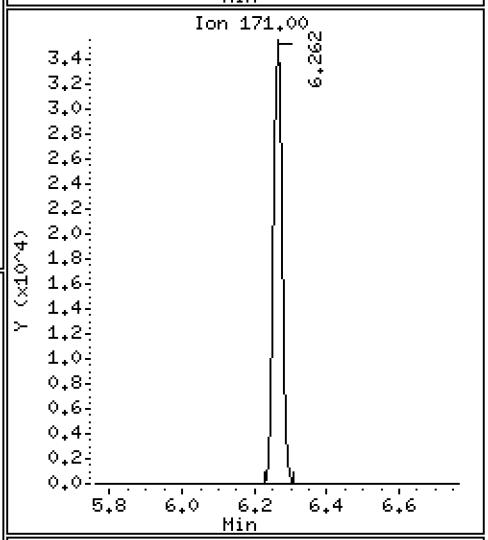


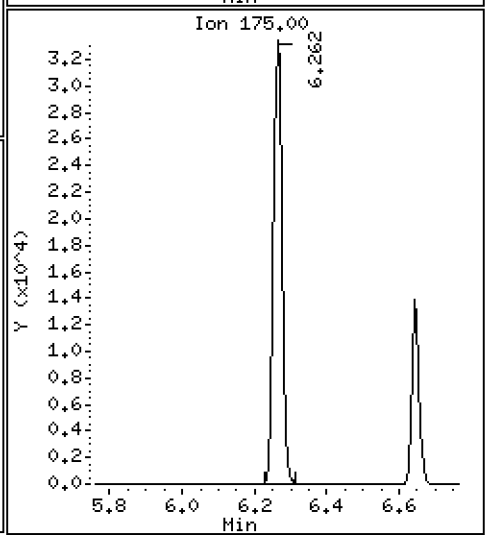












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 98

Date : 26-OCT-2016 08:14

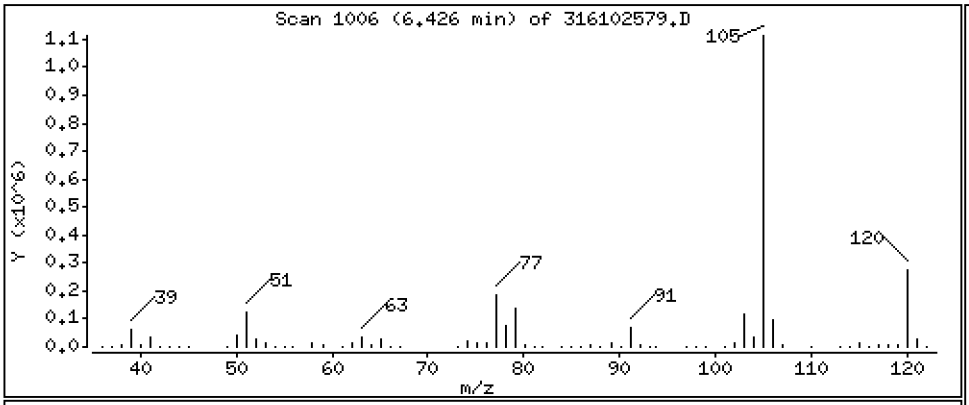
Client ID: Instrument: ms03.i

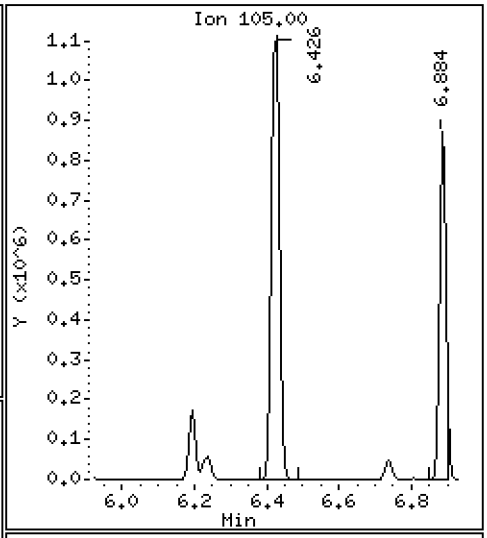
Sample Info: 1801;;1;2;4;;;

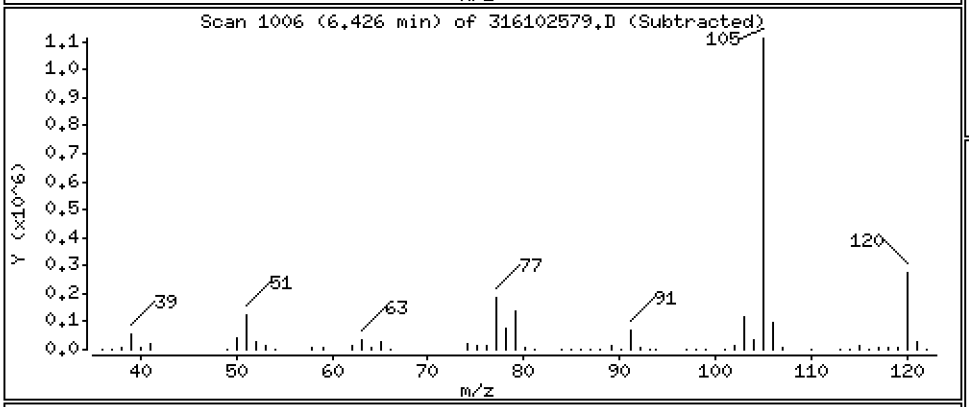
Purge Volume: 5.0 Operator: CJG

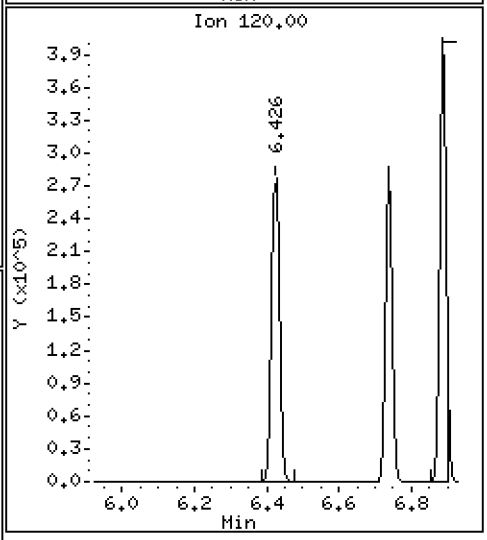
Column phase: DB-VRX Column diameter: 0.25

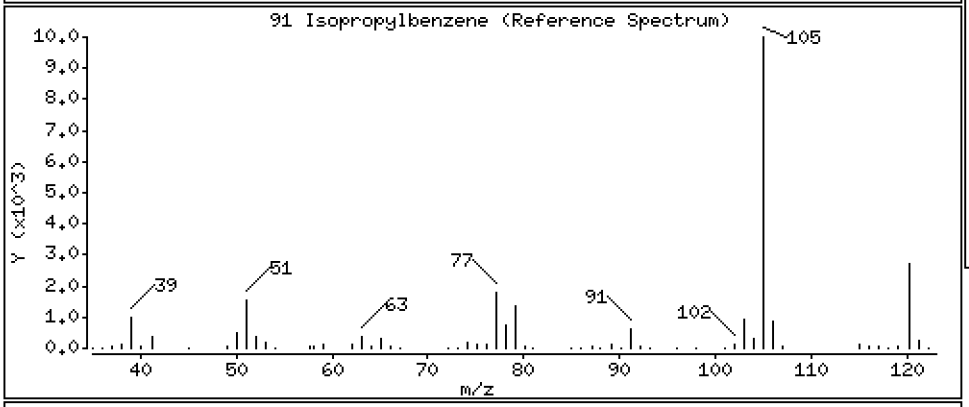
91 Isopropylbenzene Concentration: 49.4483 ug/L

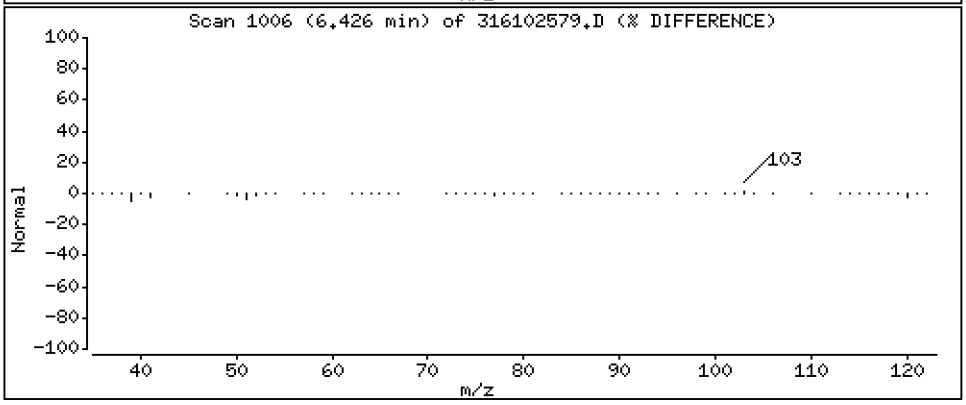












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 99

Date : 26-OCT-2016 08:14

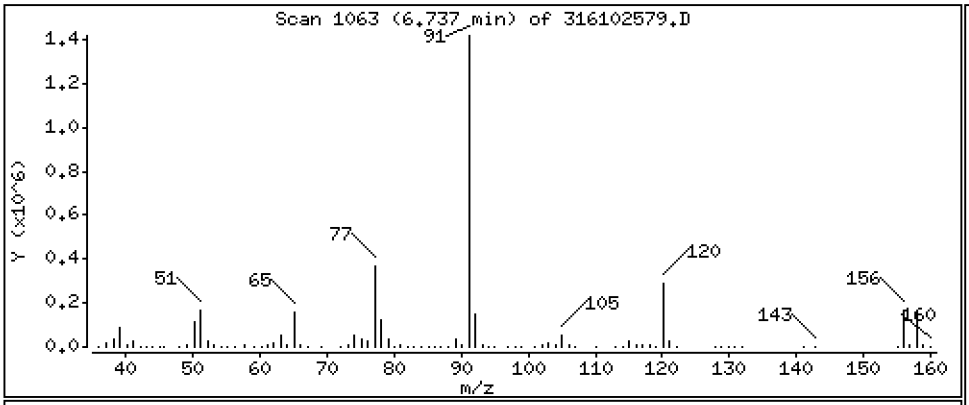
Client ID: Instrument: ms03.i

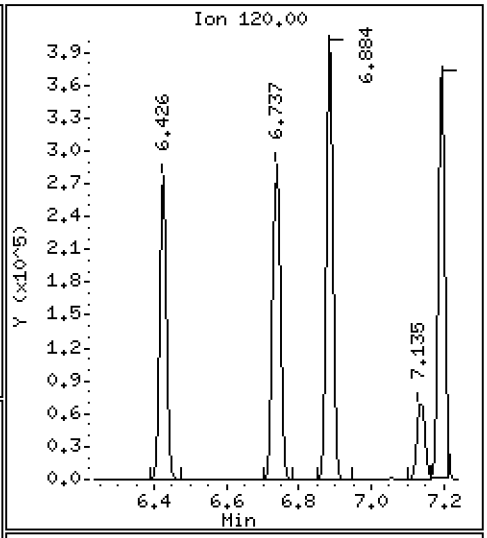
Sample Info: 1801;;1;2;4;;;

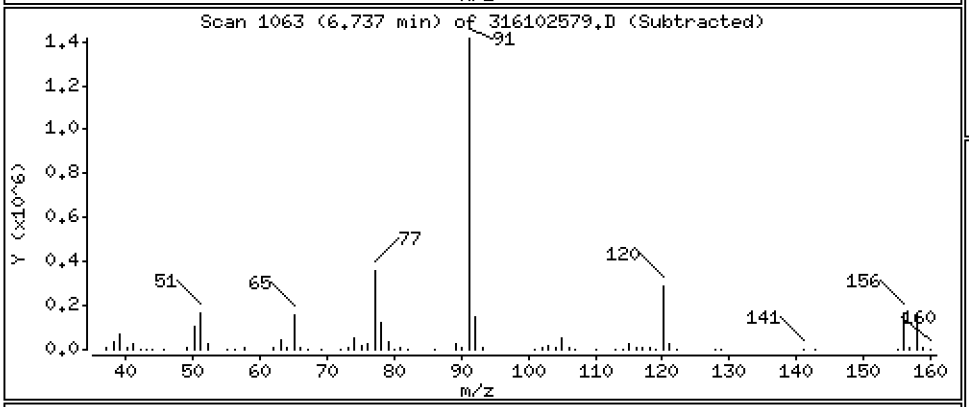
Purge Volume: 5.0 Operator: CJG

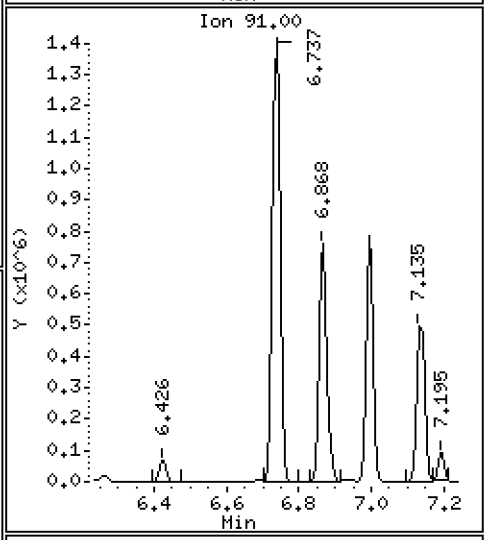
Column phase: DB-VRX Column diameter: 0.25

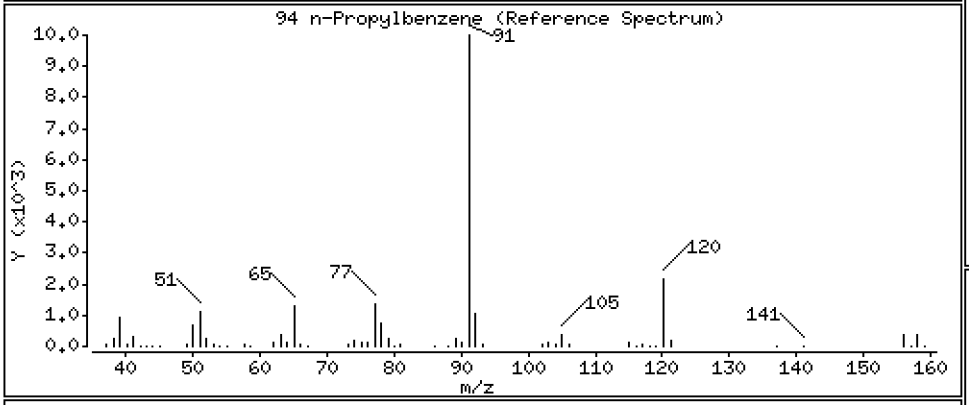
94 n-Propylbenzene Concentration: 49.1950 ug/L

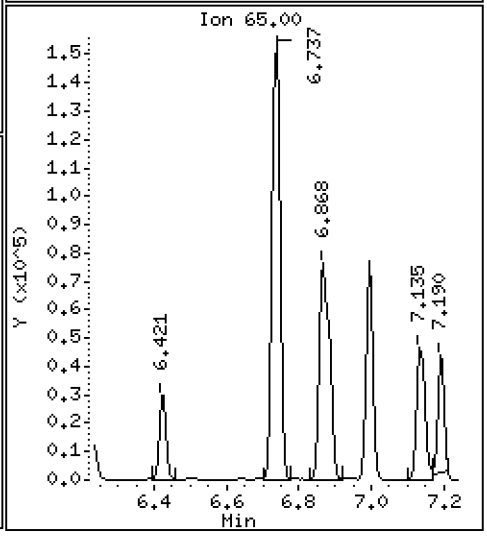


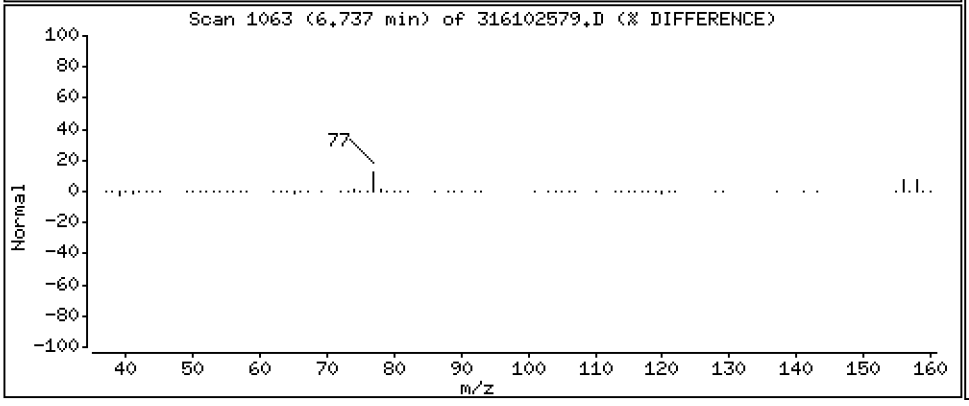












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 100

Date : 26-OCT-2016 08:14

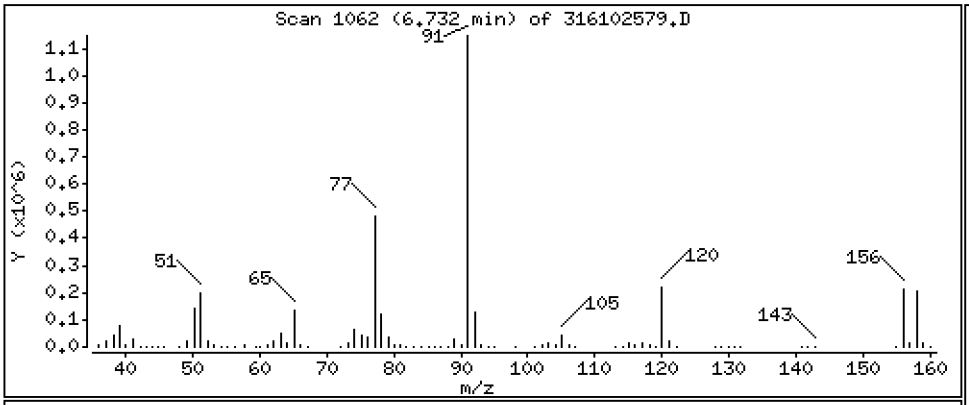
Client ID: Instrument: ms03.i

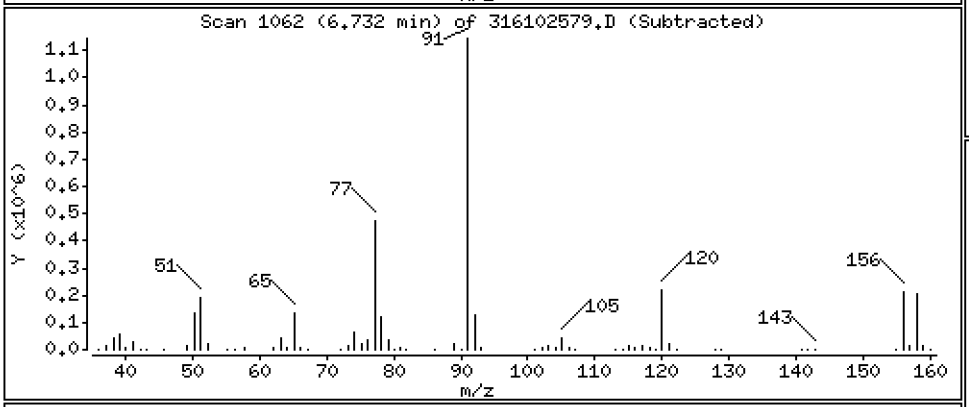
Sample Info: 1801;;1;2;4;;;

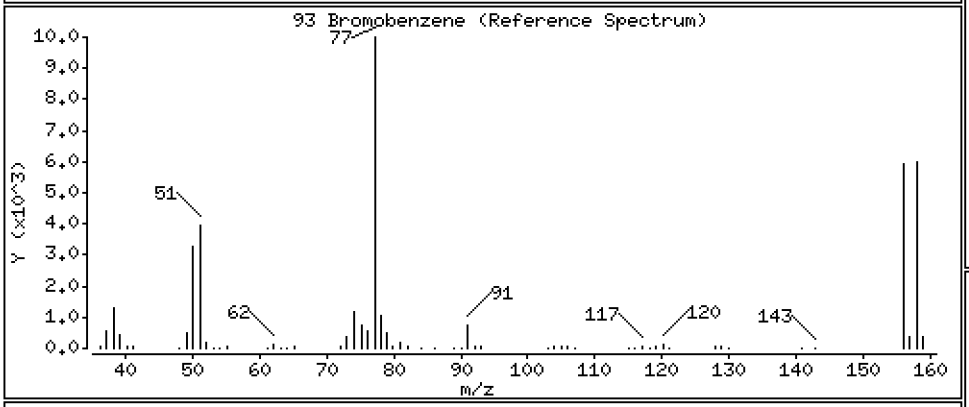
Purge Volume: 5.0 Operator: CJG

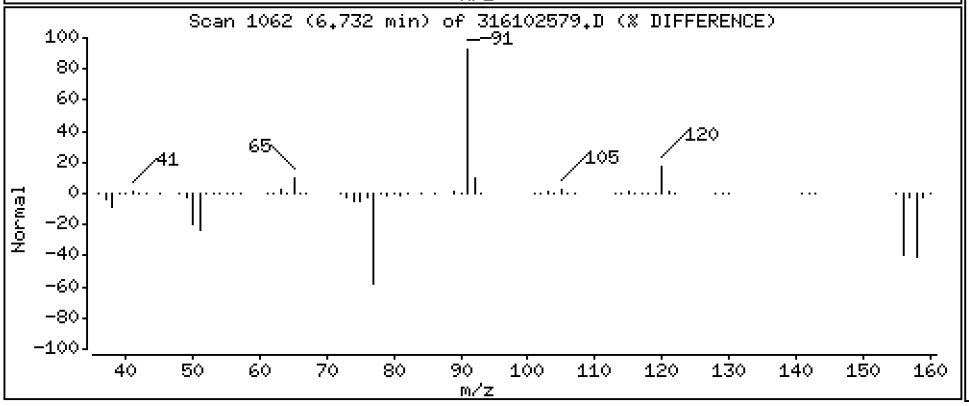
Column phase: DB-VRX Column diameter: 0.25

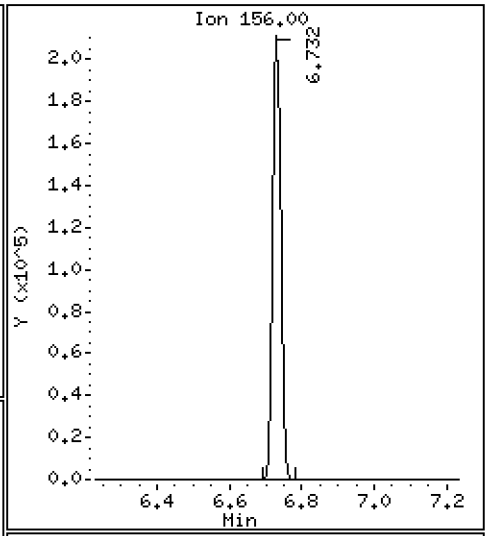
93 Bromobenzene Concentration: 45.4408 ug/L

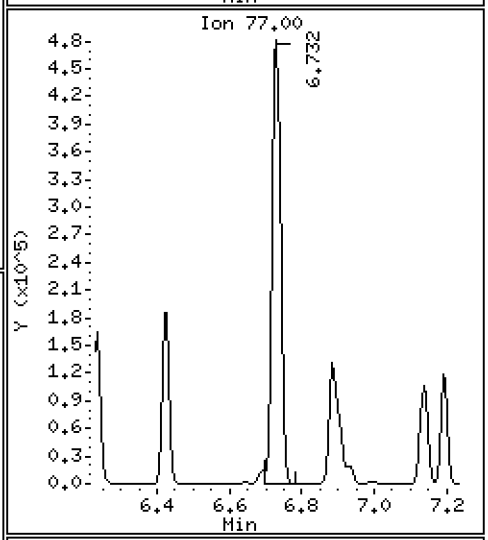


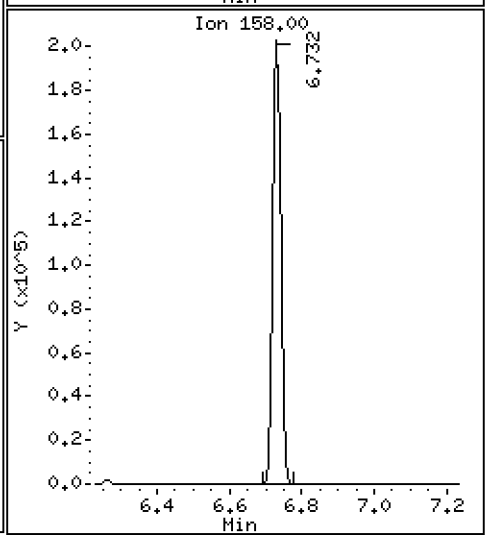












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 101

Date : 26-OCT-2016 08:14

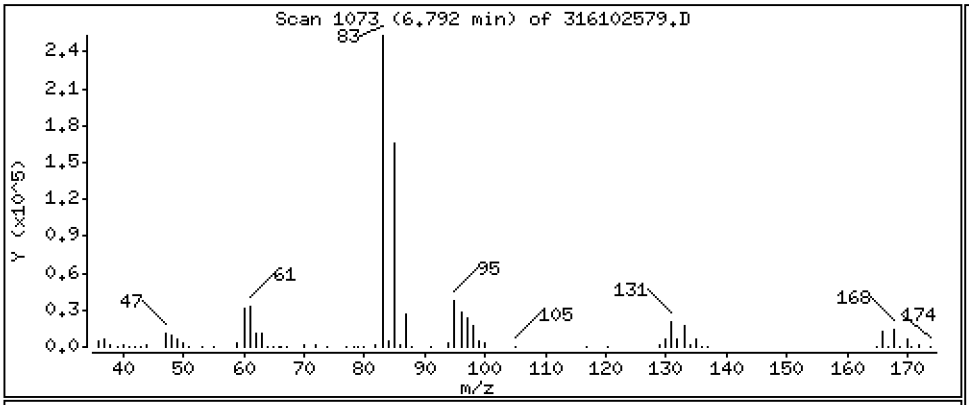
Client ID: Instrument: ms03.i

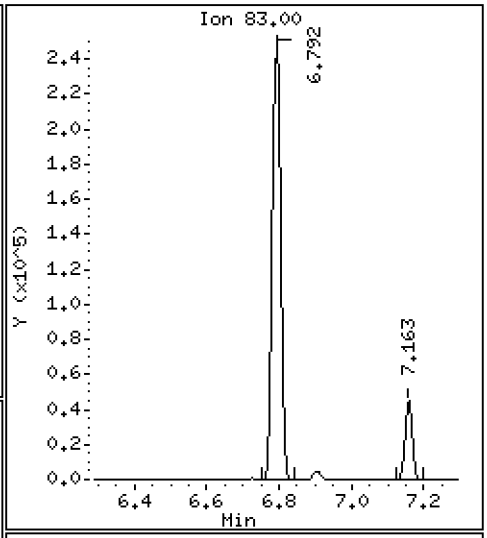
Sample Info: 1801;;1;2;4;;;

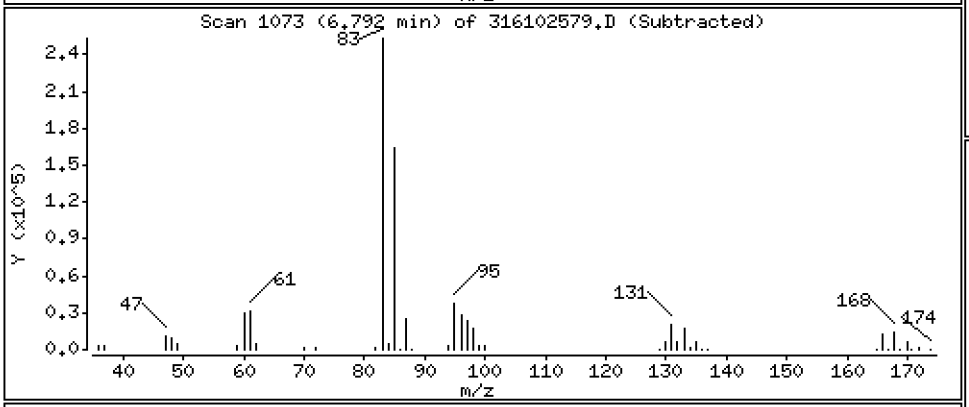
Purge Volume: 5.0 Operator: CJG

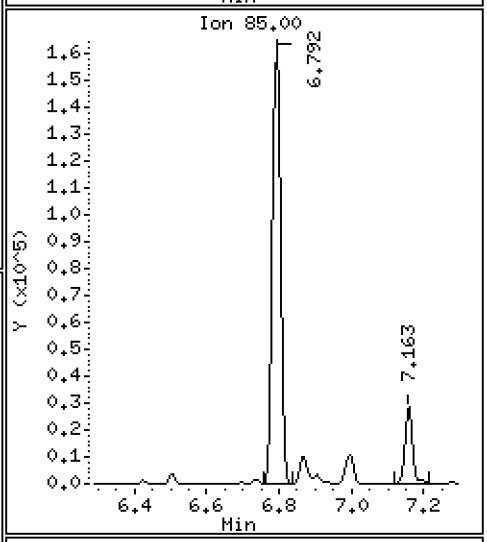
Column phase: DB-VRX Column diameter: 0.25

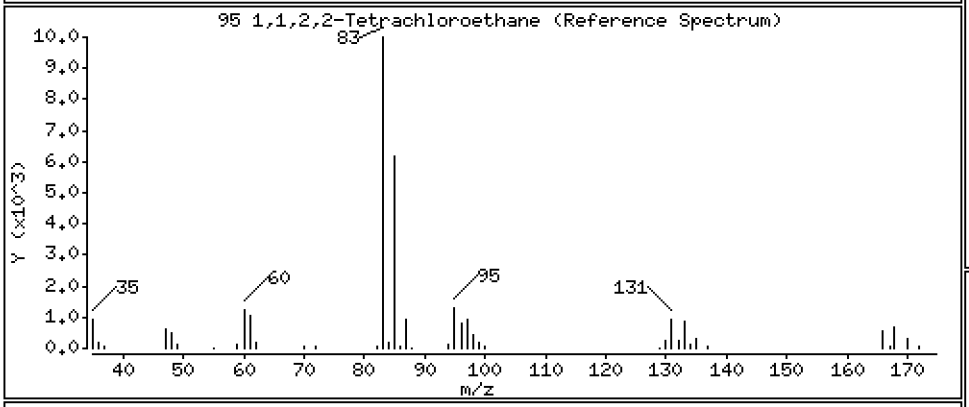
95 1,1,2,2-Tetrachloroethane Concentration: 47.7331 ug/L

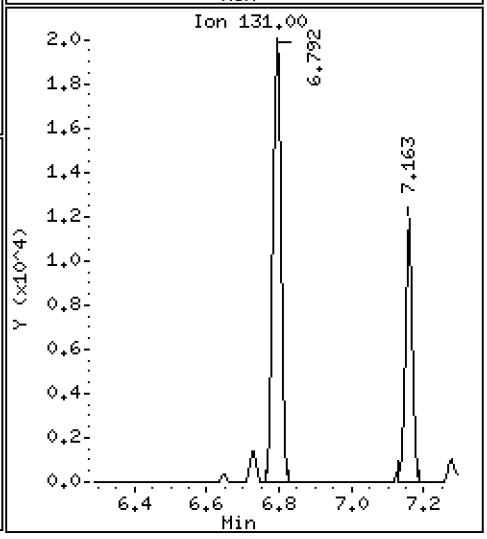


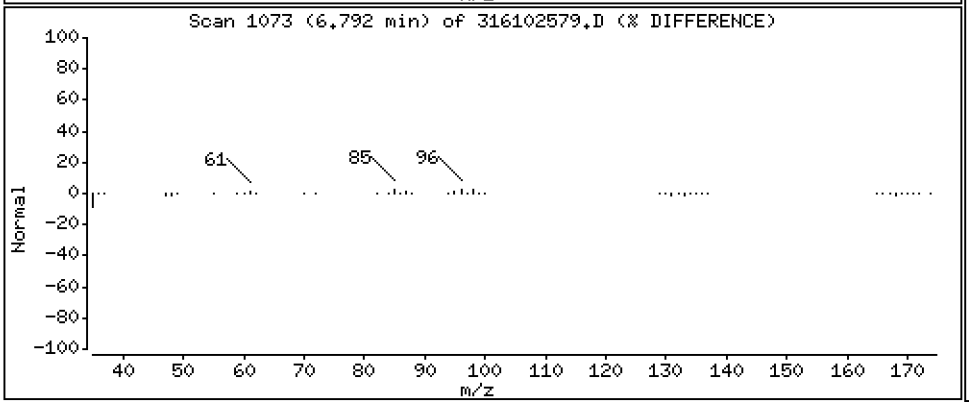












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 102

Date : 26-OCT-2016 08:14

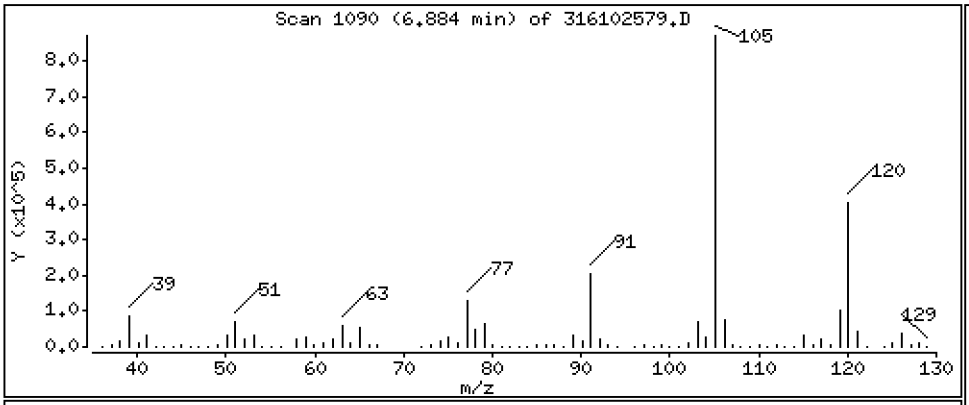
Client ID: Instrument: ms03.i

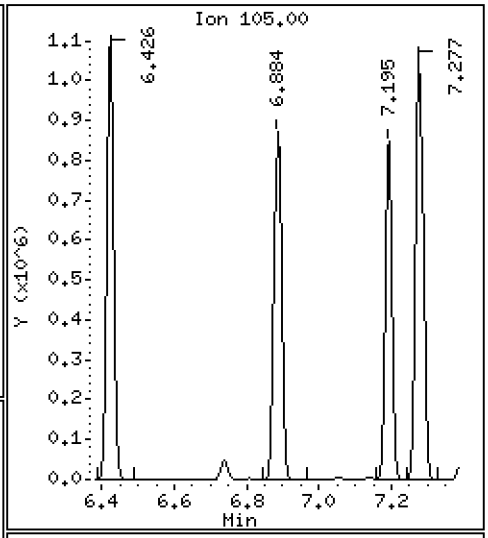
Sample Info: 1801;;1;2;4;;;

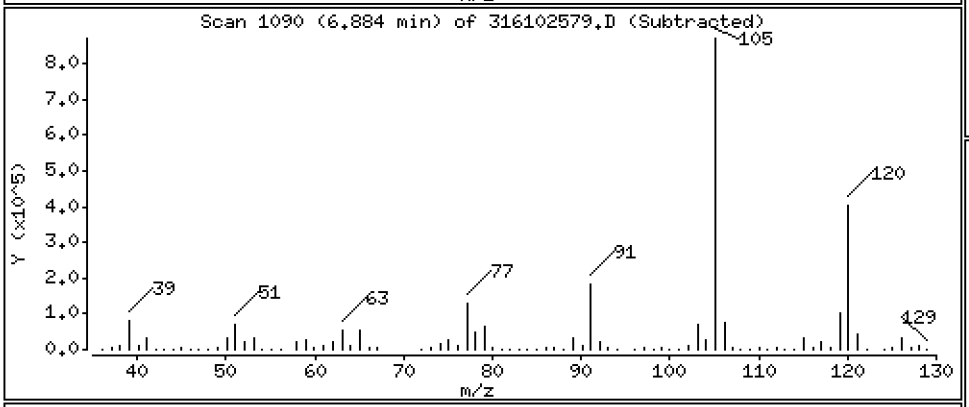
Purge Volume: 5.0 Operator: CJG

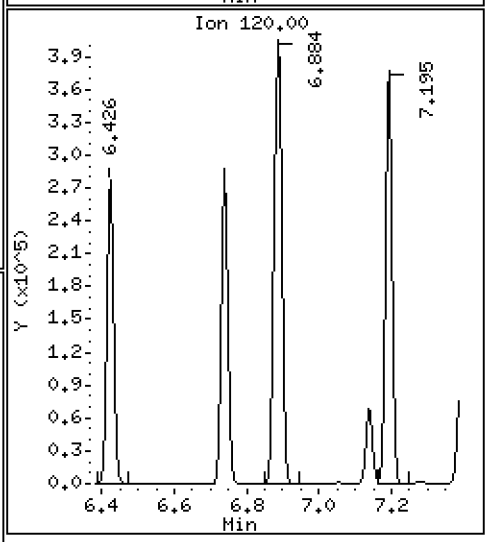
Column phase: DB-VRX Column diameter: 0.25

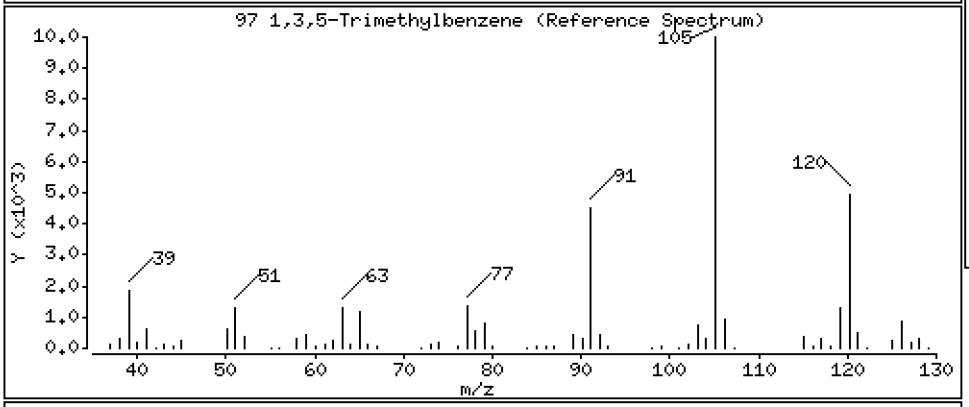
97 1,3,5-Trimethylbenzene Concentration: 51.2571 ug/L

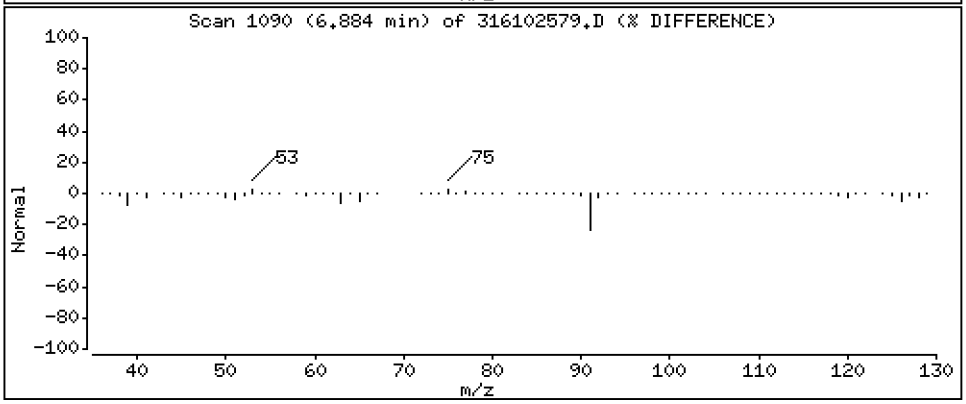












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 103

Date : 26-OCT-2016 08:14

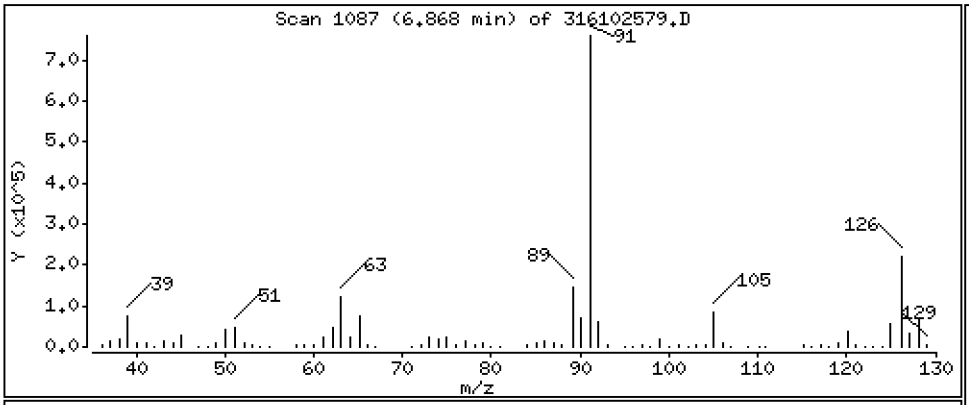
Client ID: Instrument: ms03.i

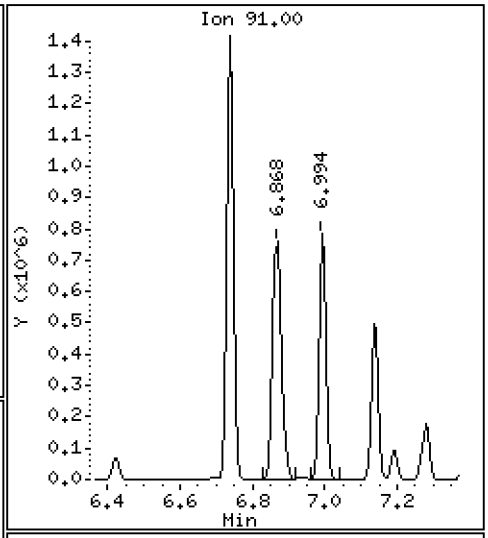
Sample Info: 1801;;1;2;4;;;

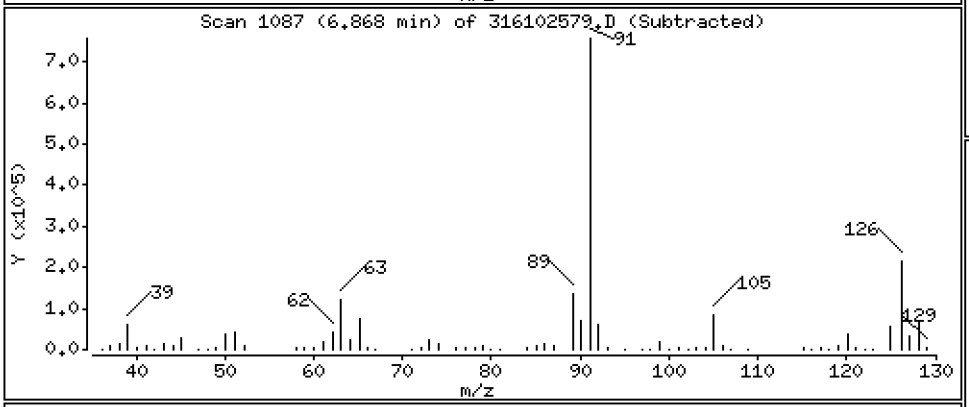
Purge Volume: 5.0 Operator: CJG

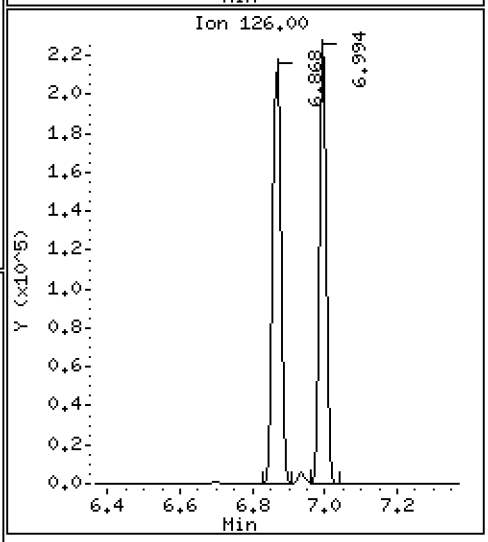
Column phase: DB-VRX Column diameter: 0.25

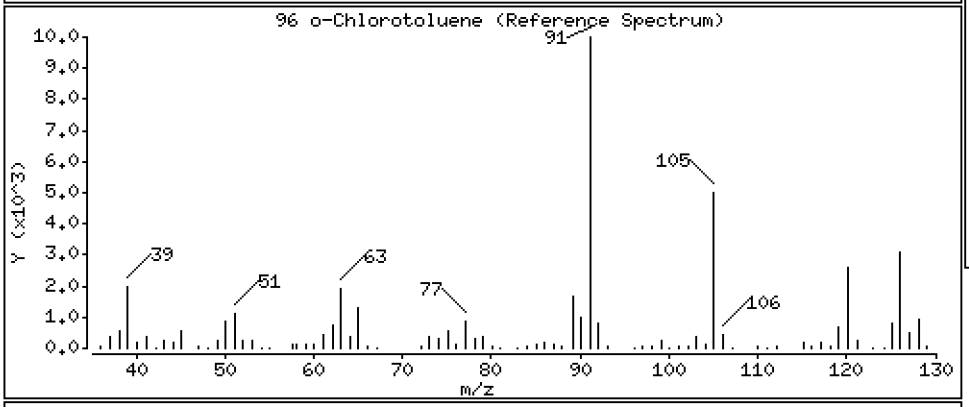
96 o-Chlorotoluene Concentration: 48.9067 ug/L

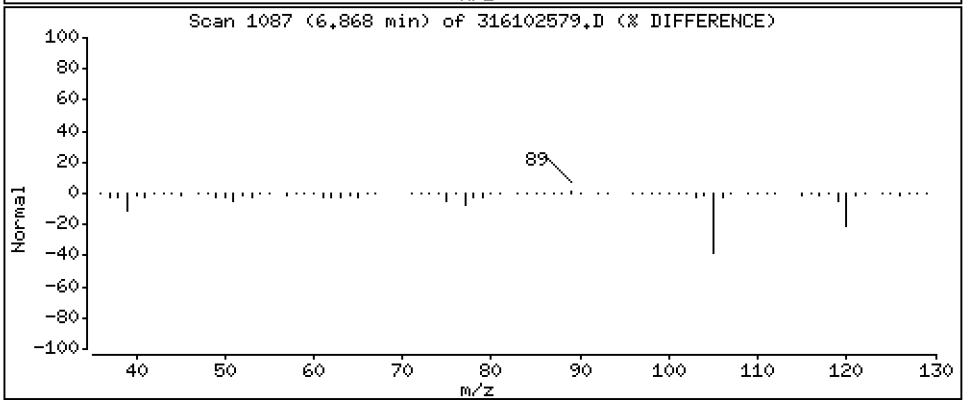












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 104

Date : 26-OCT-2016 08:14

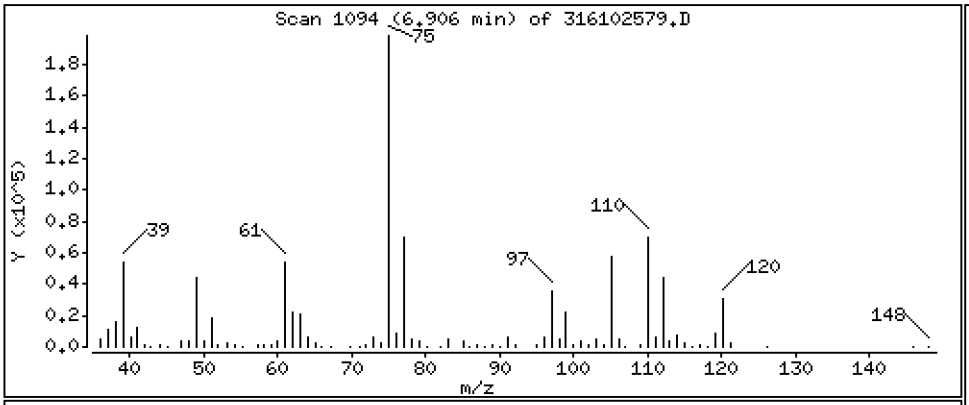
Client ID: Instrument: ms03.i

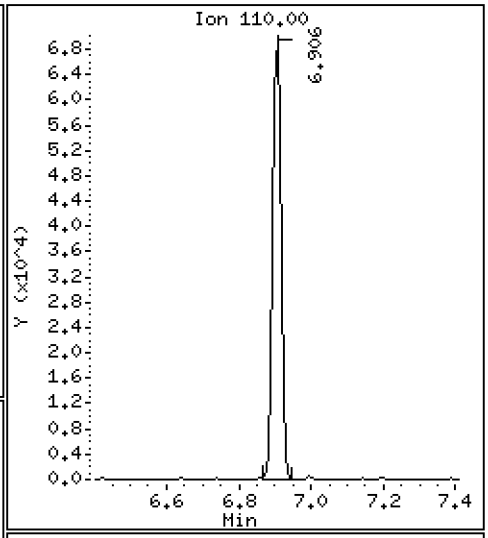
Sample Info: 1801;;1;2;4;;;

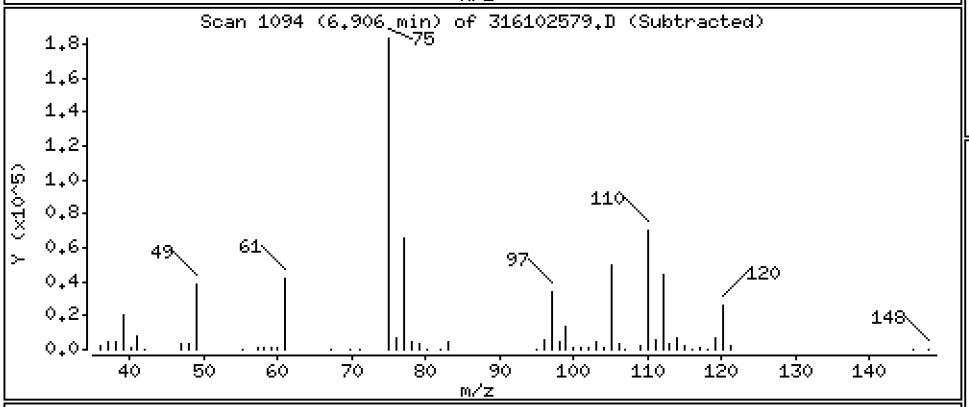
Purge Volume: 5.0 Operator: CJG

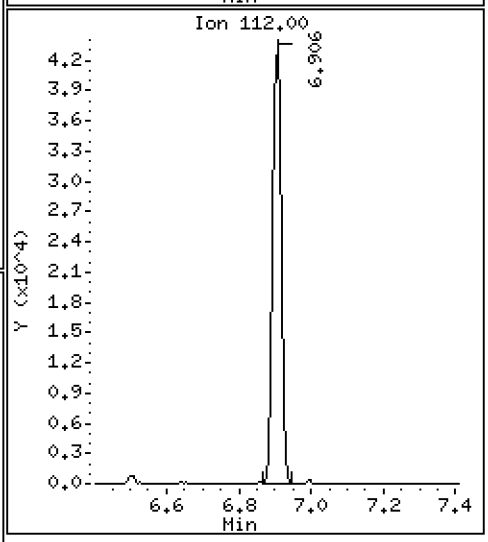
Column phase: DB-VRX Column diameter: 0.25

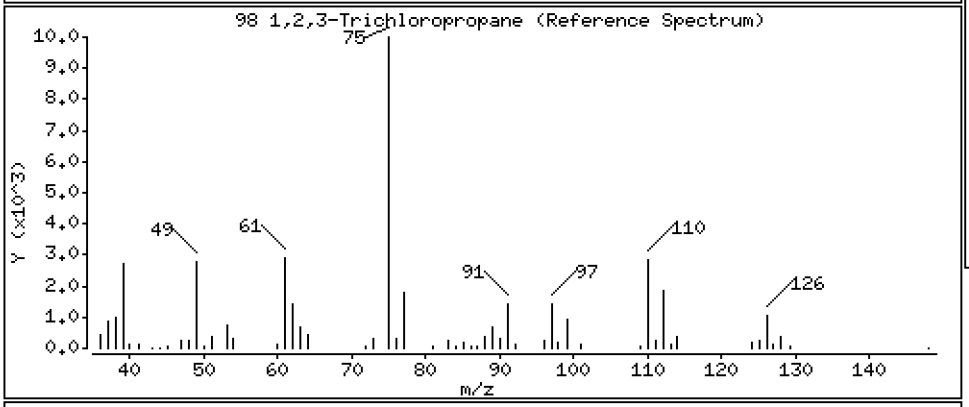
98 1,2,3-Trichloropropane Concentration: 45.2571 ug/L

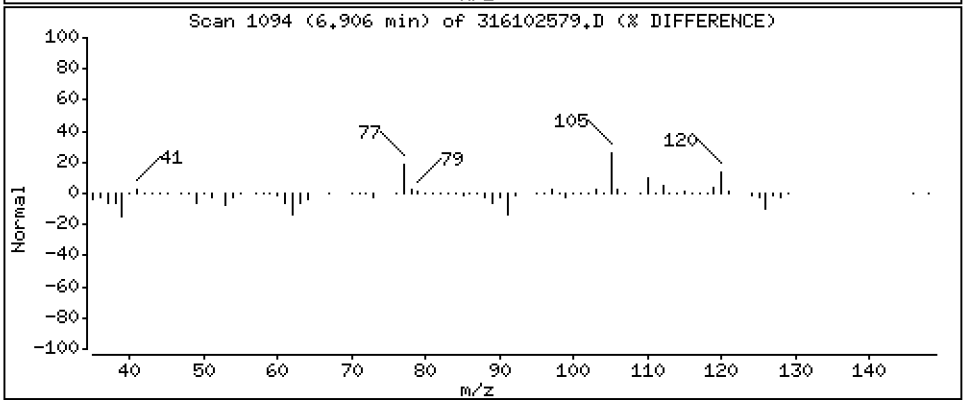












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 105

Date : 26-OCT-2016 08:14

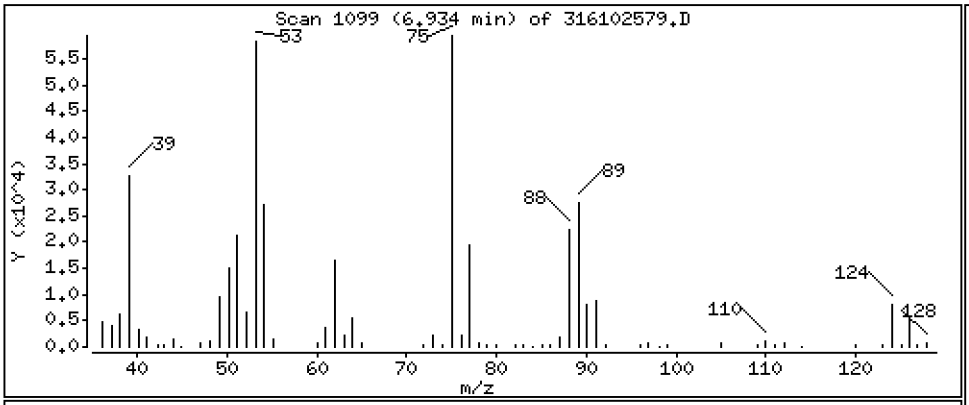
Client ID: Instrument: ms03.i

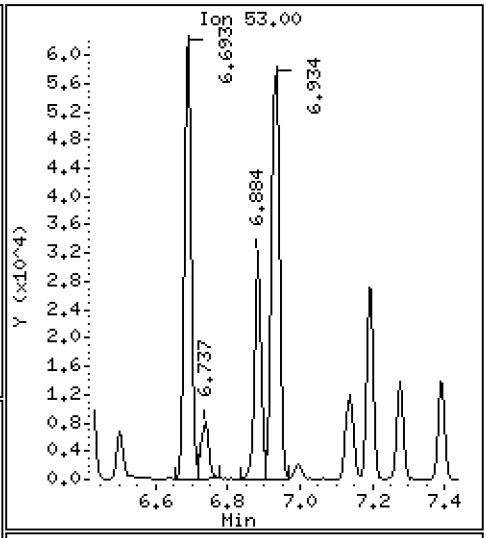
Sample Info: 1801;;1;2;4;;;

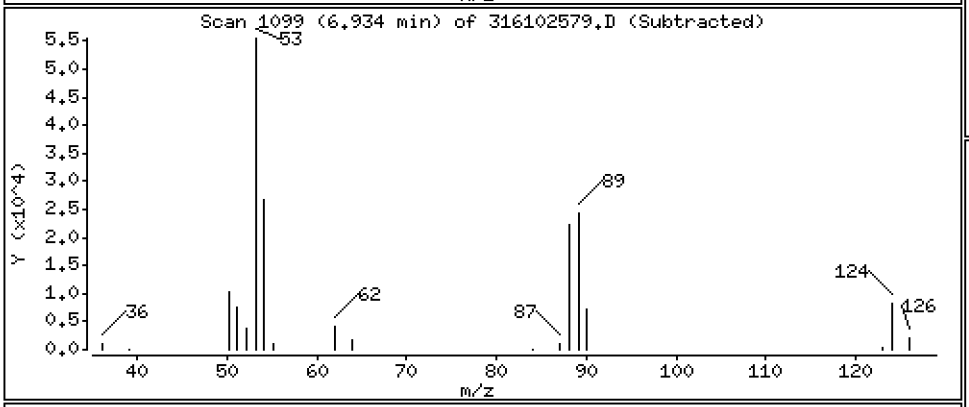
Purge Volume: 5.0 Operator: CJG

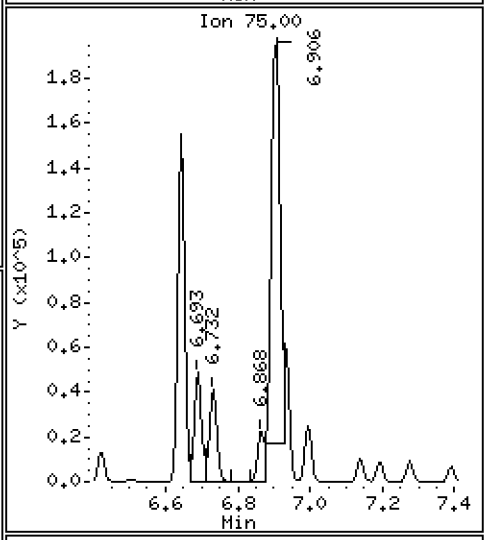
Column phase: DB-VRX Column diameter: 0.25

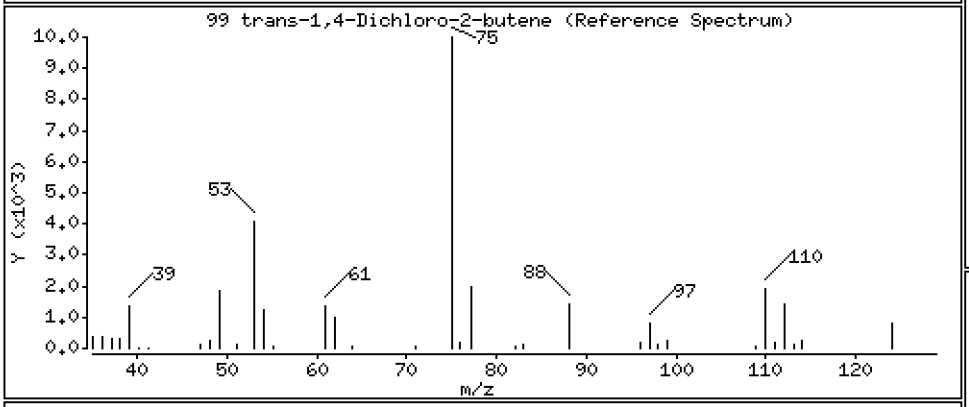
99 trans-1,4-Dichloro-2-butene Concentration: 44.6626 ug/L

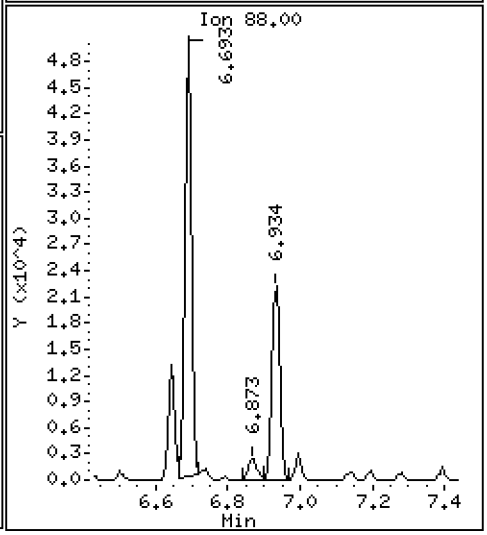


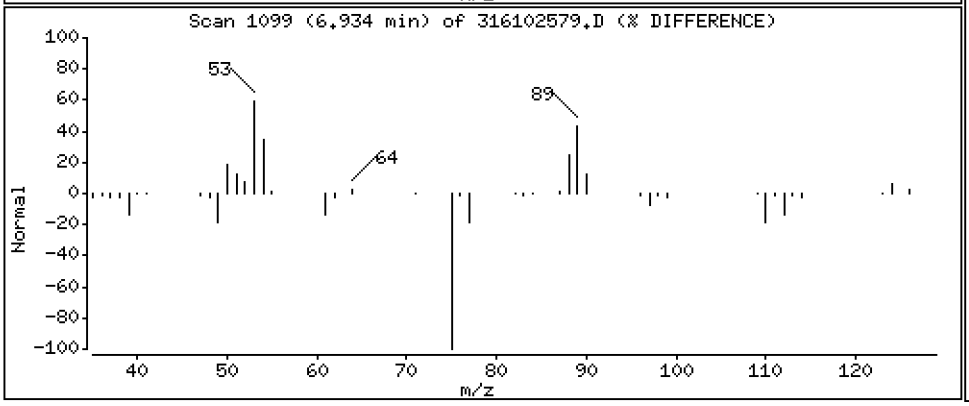












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 106

Date : 26-OCT-2016 08:14

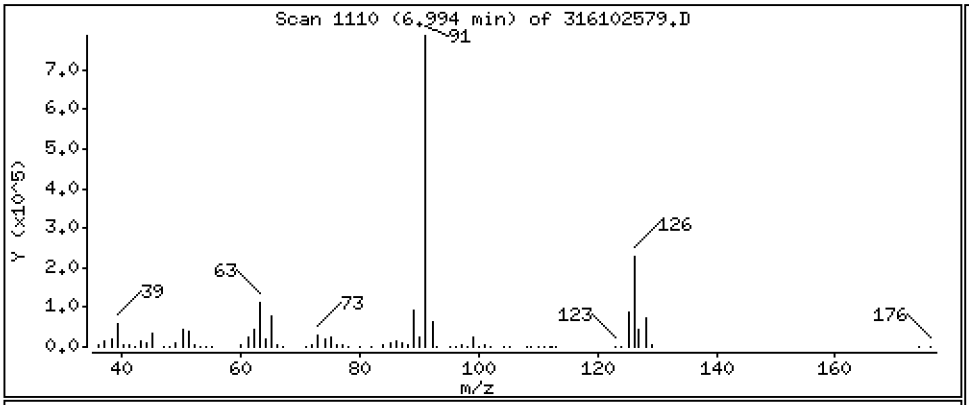
Client ID: Instrument: ms03.i

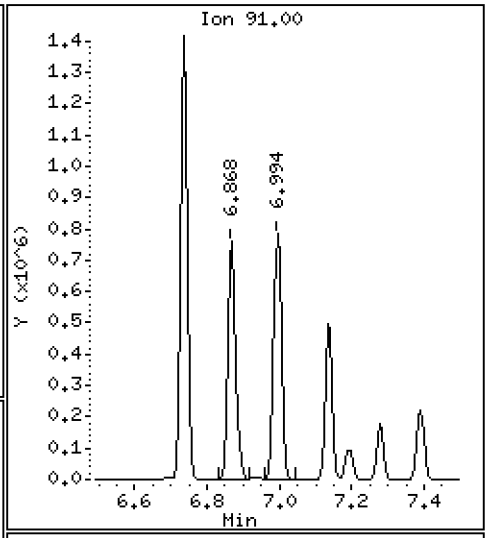
Sample Info: 1801;;1;2;4;;;

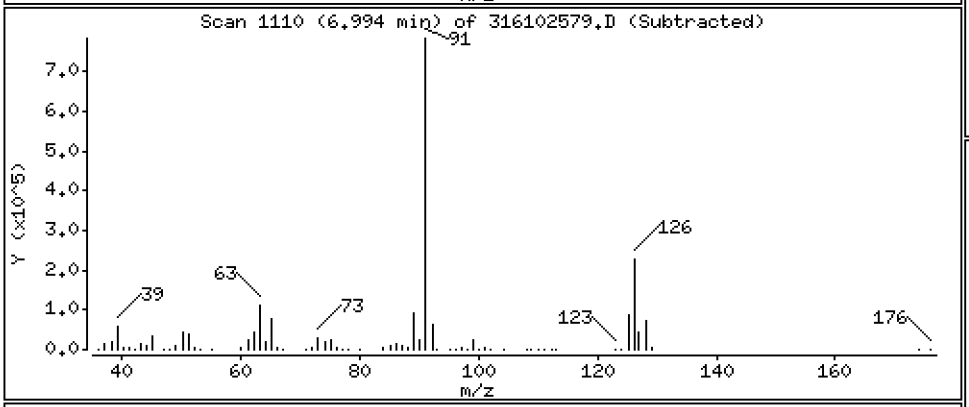
Purge Volume: 5.0 Operator: CJG

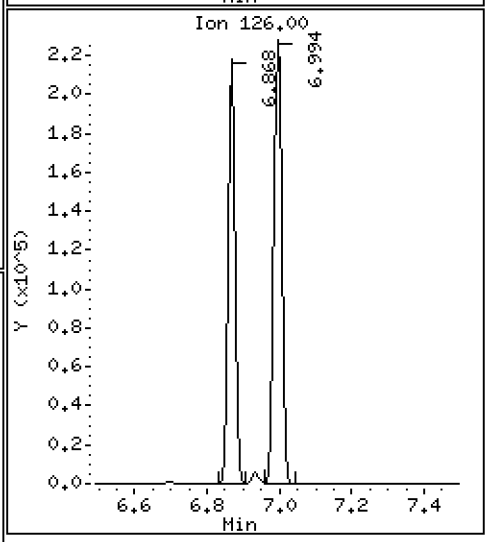
Column phase: DB-VRX Column diameter: 0.25

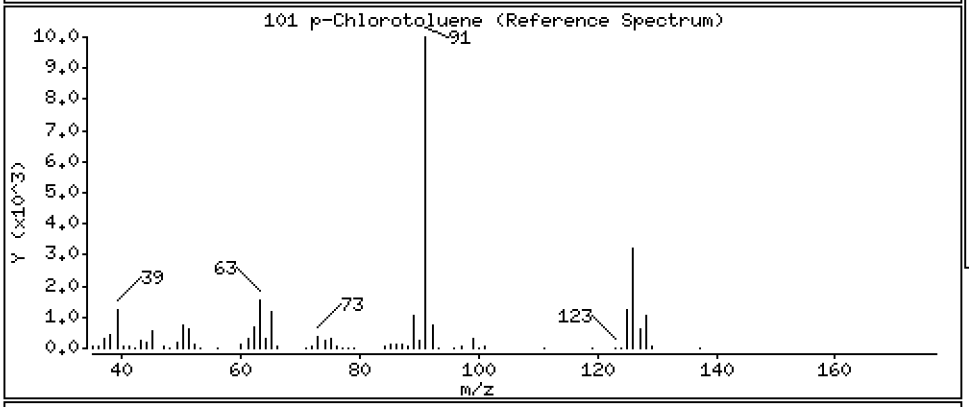
101 p-Chlorotoluene Concentration: 48.9103 ug/L

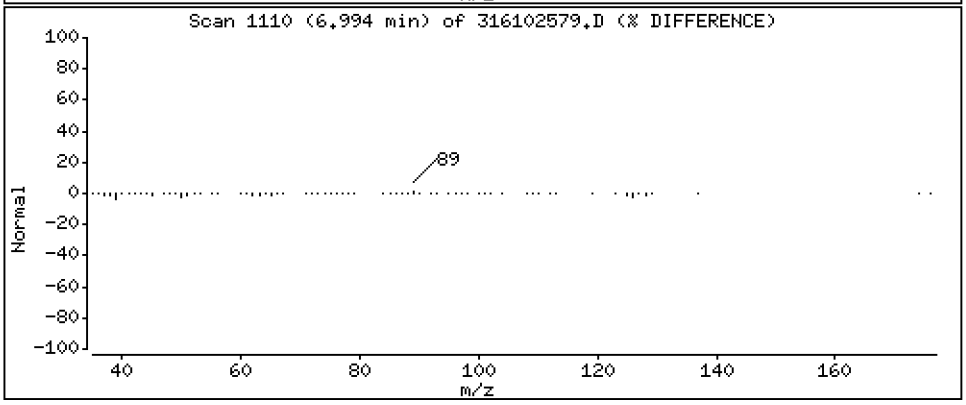












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 107

Date : 26-OCT-2016 08:14

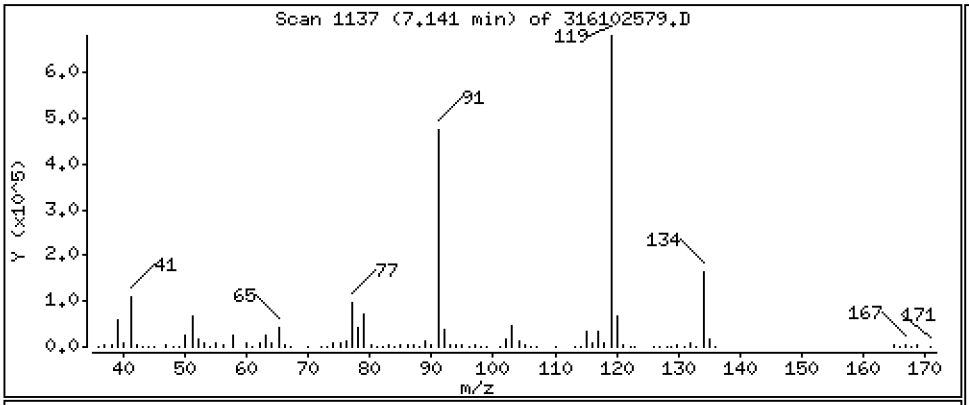
Client ID: Instrument: ms03.i

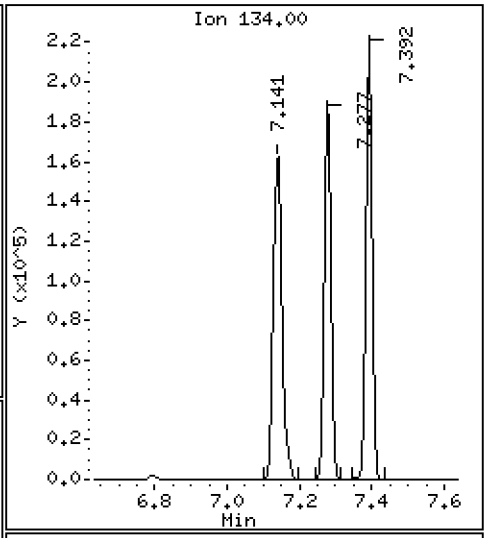
Sample Info: 1801;;1;2;4;;;

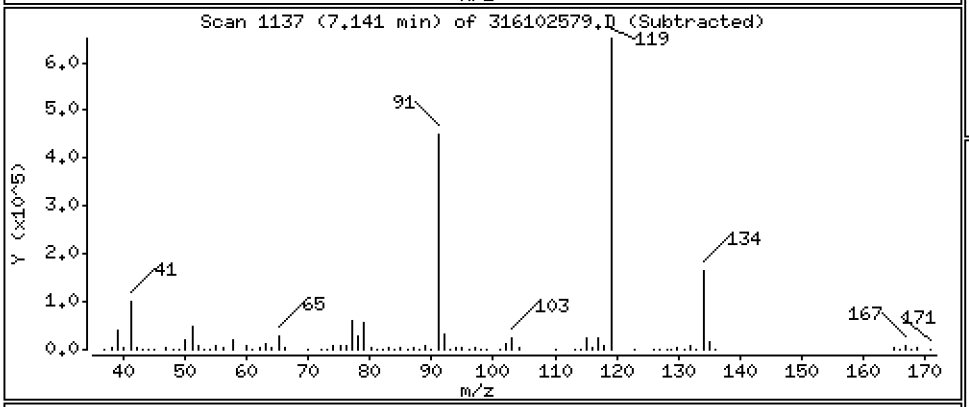
Purge Volume: 5.0 Operator: CJG

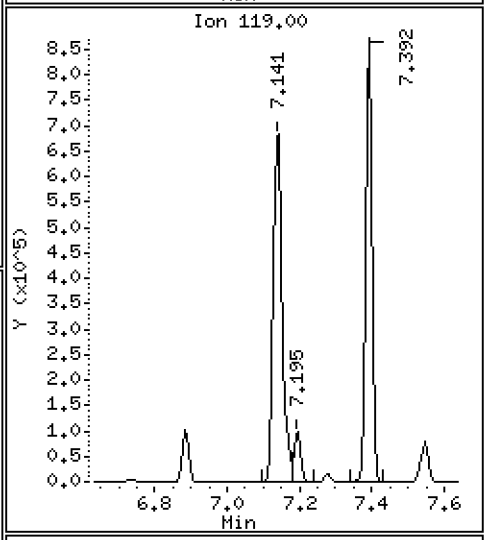
Column phase: DB-VRX Column diameter: 0.25

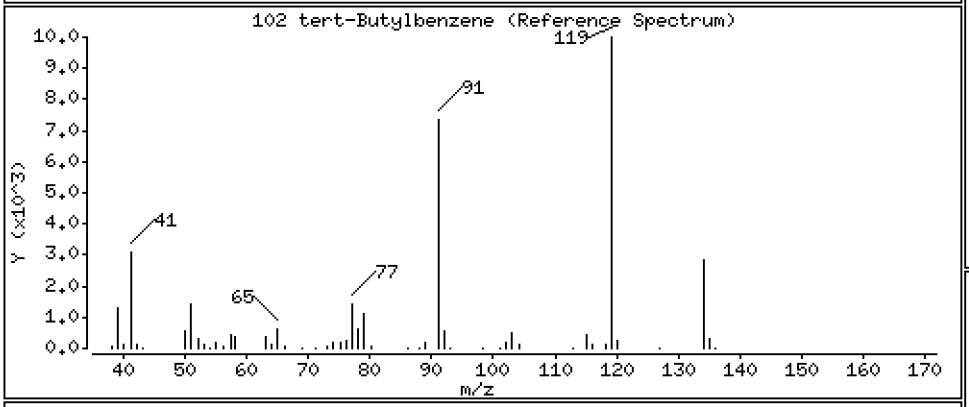
102 tert-Butylbenzene Concentration: 48.7712 ug/L

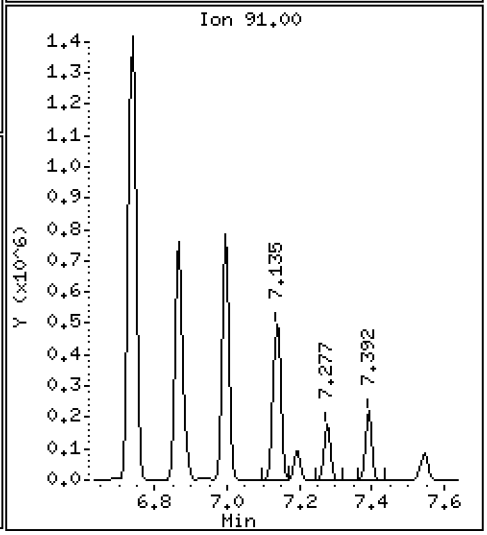


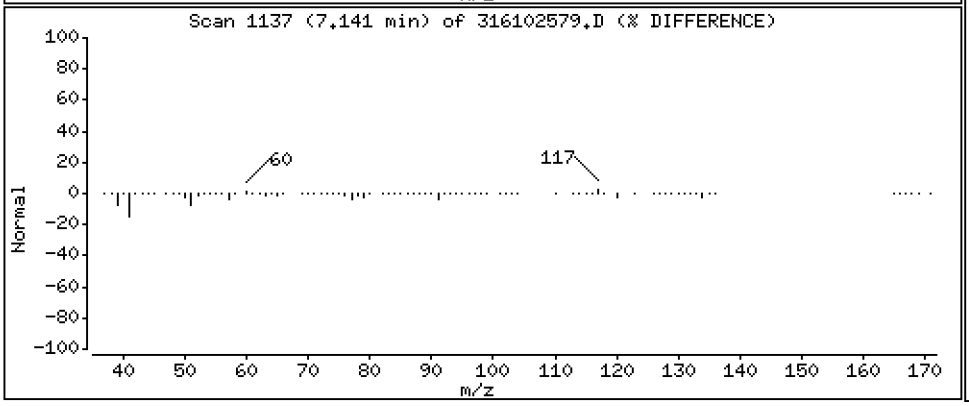












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 108

Date : 26-OCT-2016 08:14

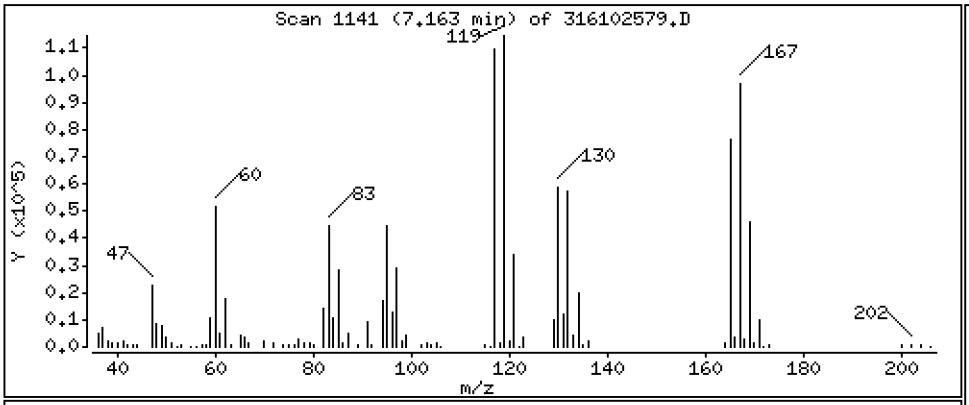
Client ID: Instrument: ms03.i

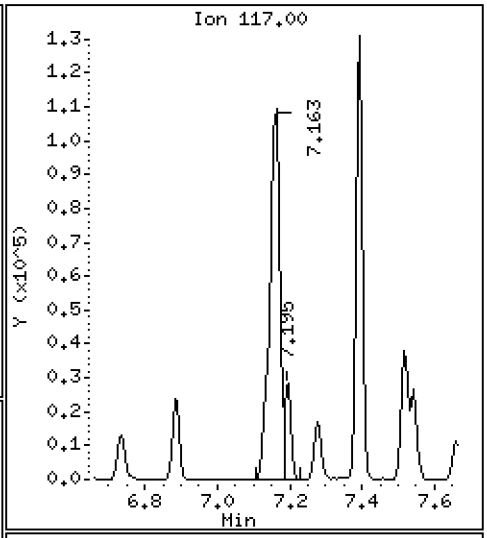
Sample Info: 1801;;1;2;4;;;

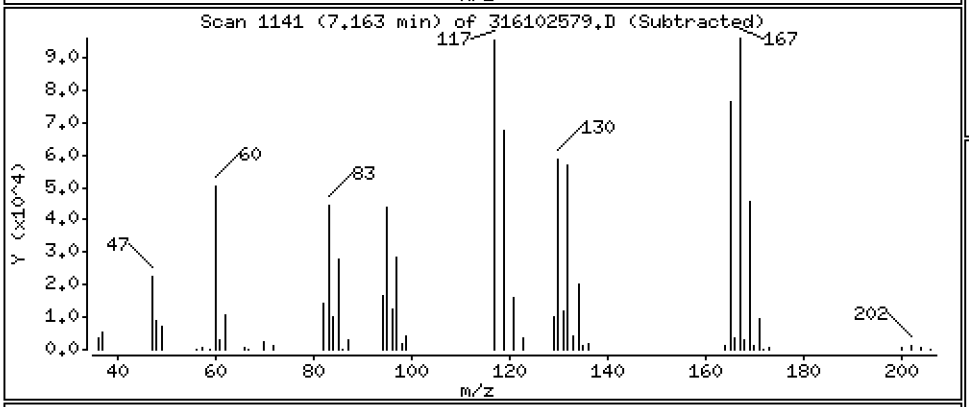
Purge Volume: 5.0 Operator: CJG

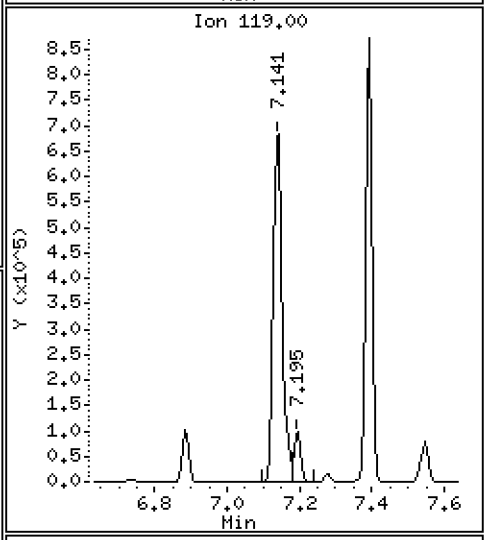
Column phase: DB-VRX Column diameter: 0.25

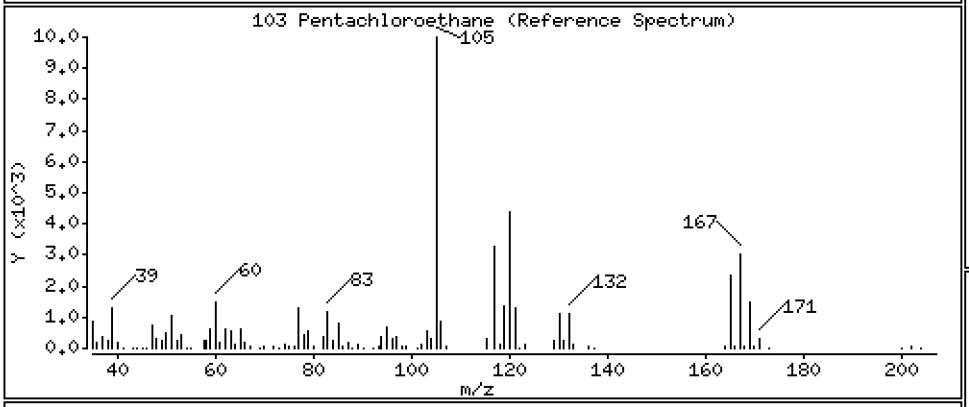
103 Pentachloroethane Concentration: 46.5062 ug/L

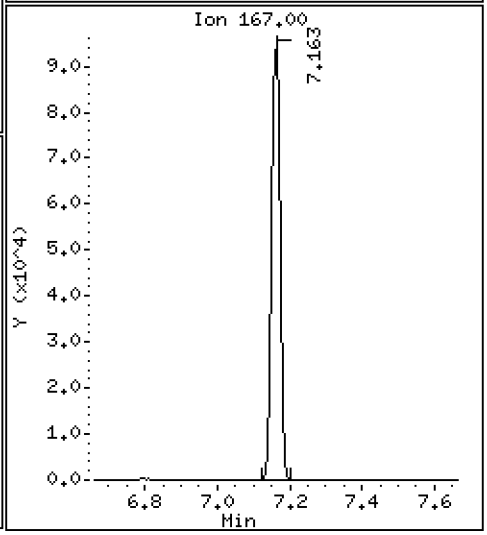


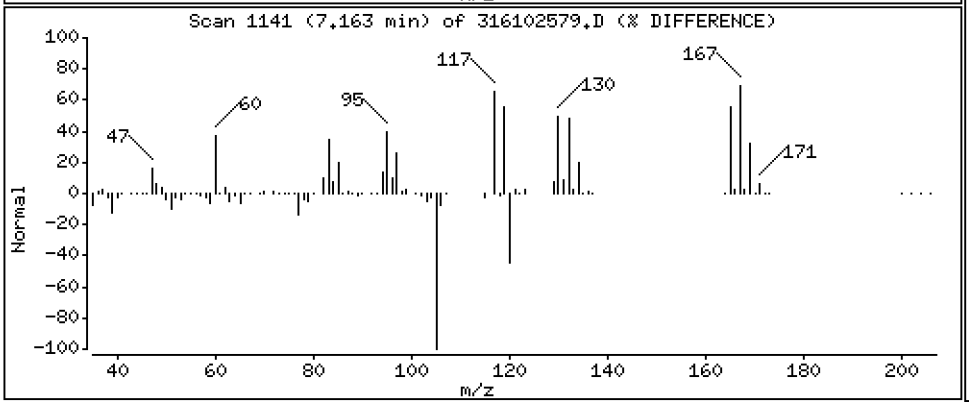












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 109

Date : 26-OCT-2016 08:14

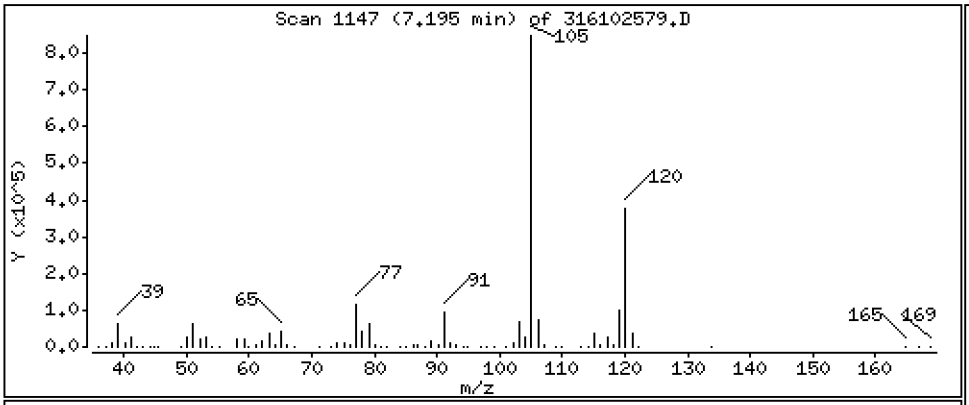
Client ID: Instrument: ms03.i

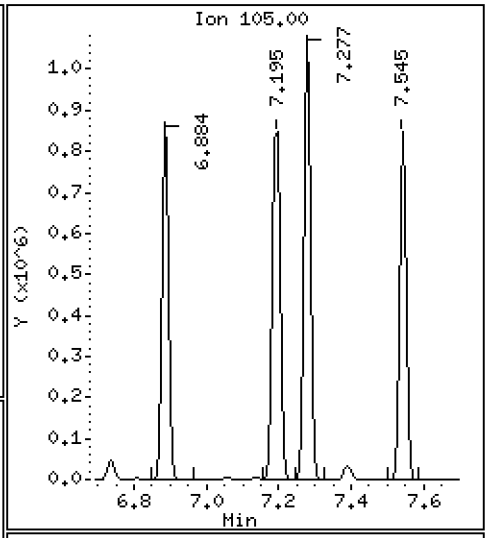
Sample Info: 1801;;1;2;4;;;

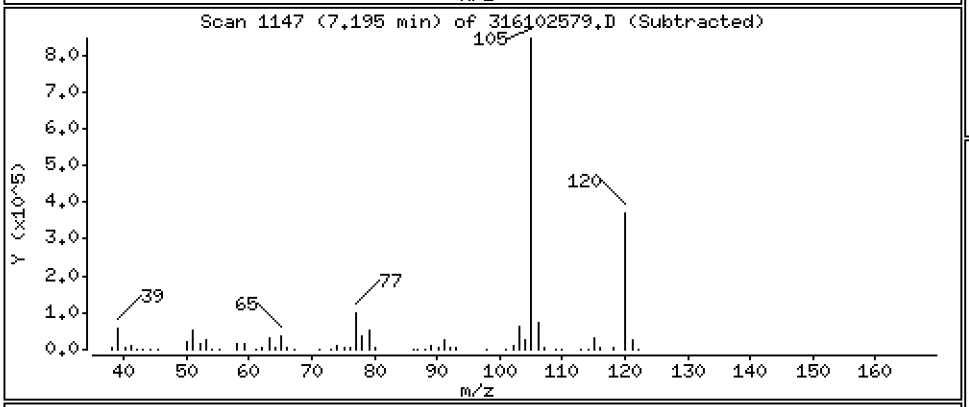
Purge Volume: 5.0 Operator: CJG

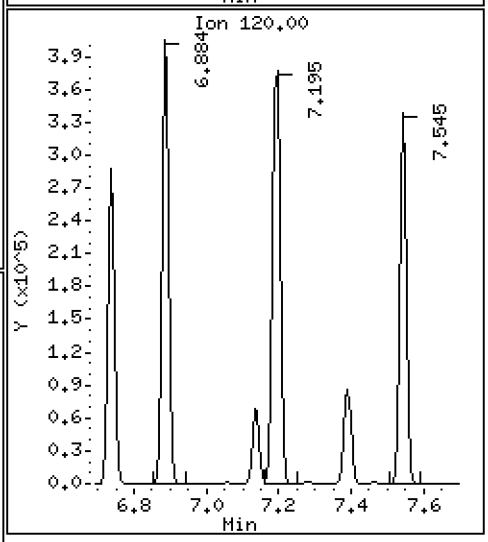
Column phase: DB-VRX Column diameter: 0.25

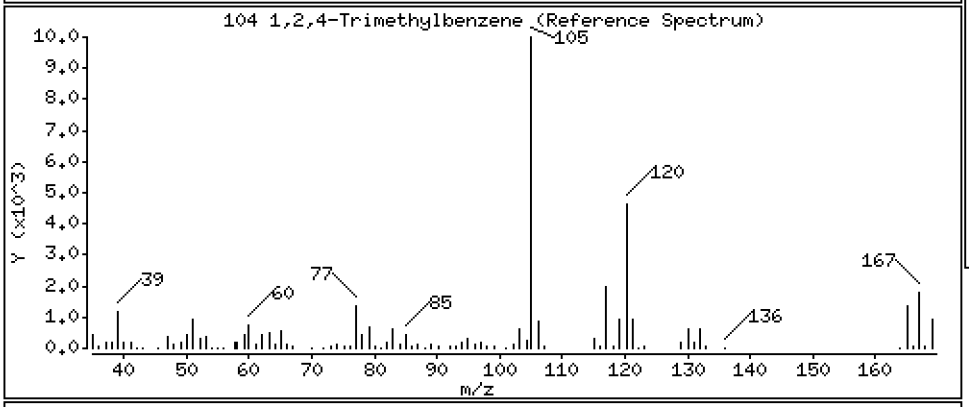
104 1,2,4-Trimethylbenzene Concentration: 51.7213 ug/L

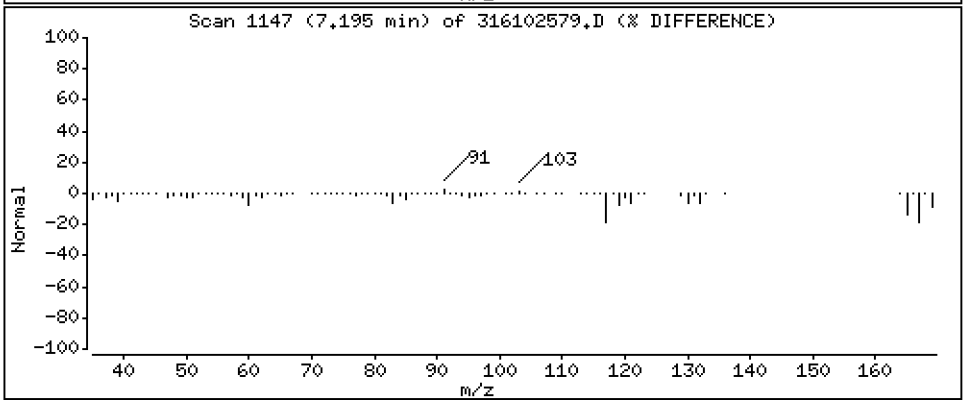












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 110

Date : 26-OCT-2016 08:14

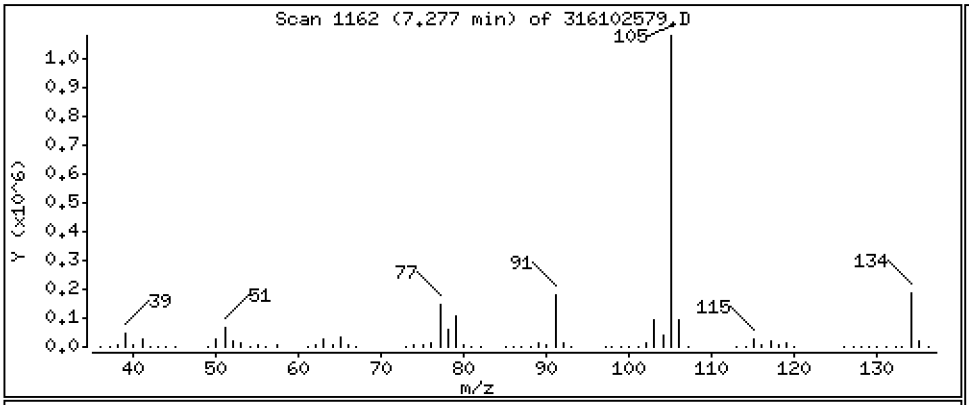
Client ID: Instrument: ms03.i

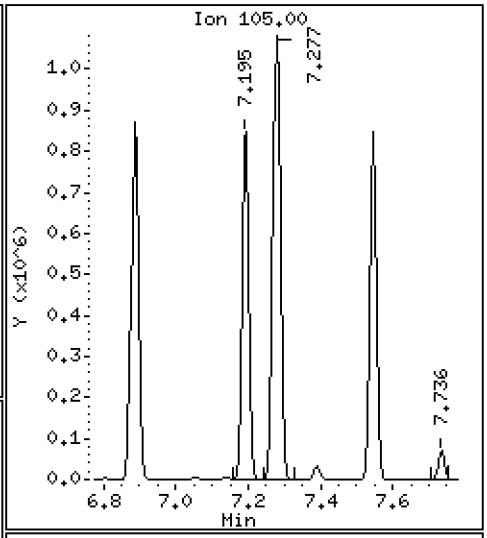
Sample Info: 1801;;1;2;4;;;

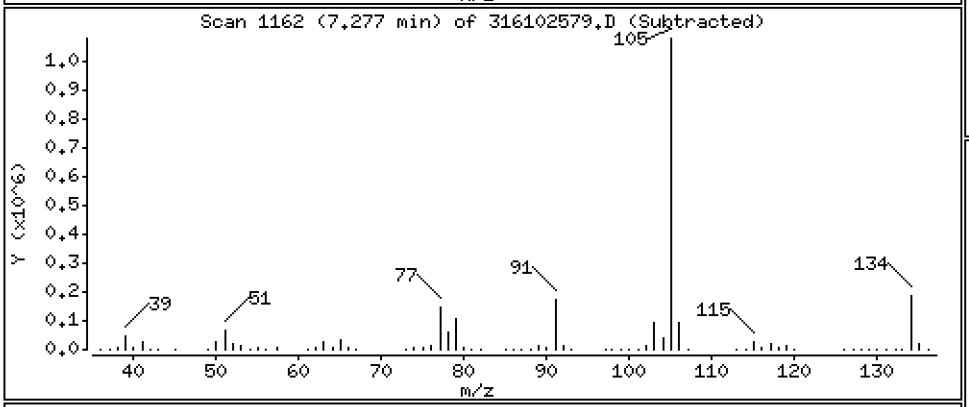
Purge Volume: 5.0 Operator: CJG

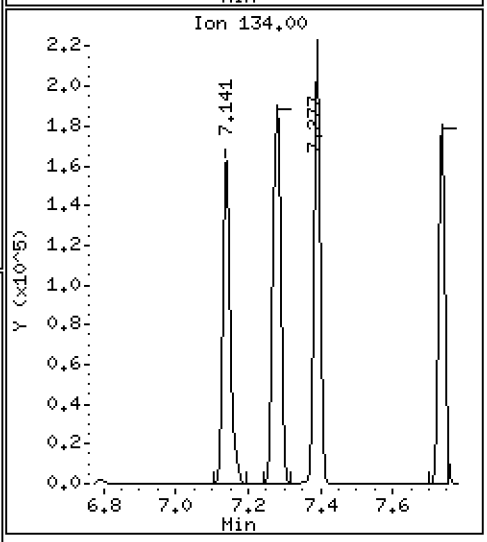
Column phase: DB-VRX Column diameter: 0.25

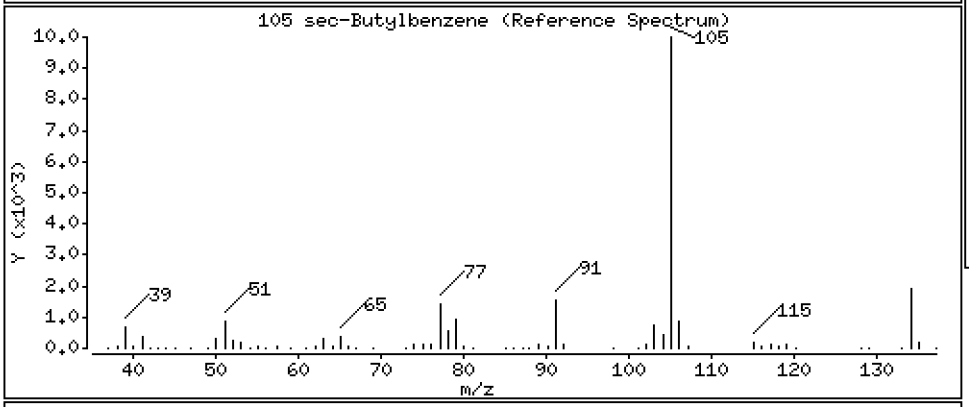
105 sec-Butylbenzene Concentration: 50.7371 ug/L

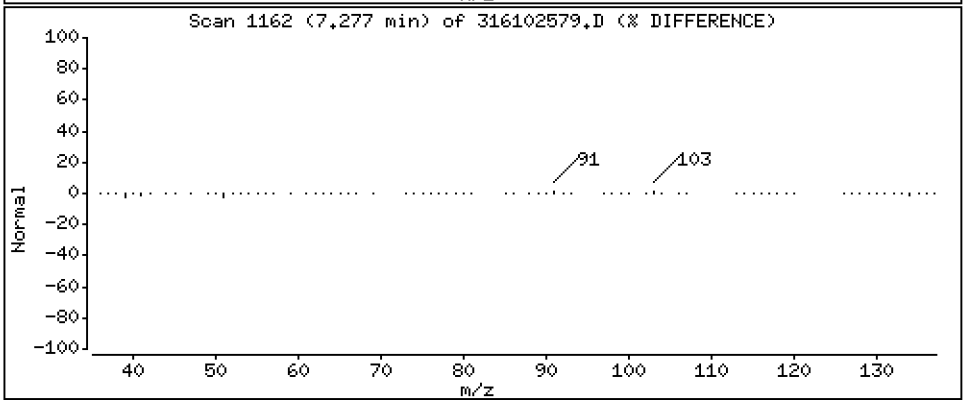












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 111

Date : 26-OCT-2016 08:14

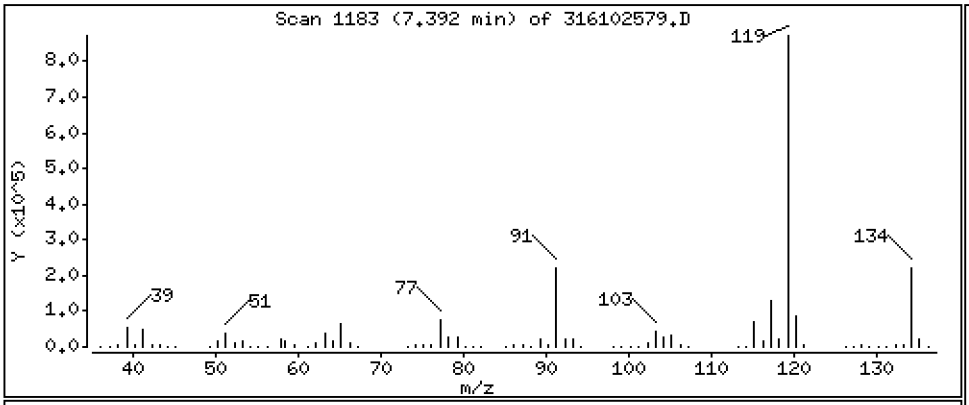
Client ID: Instrument: ms03.i

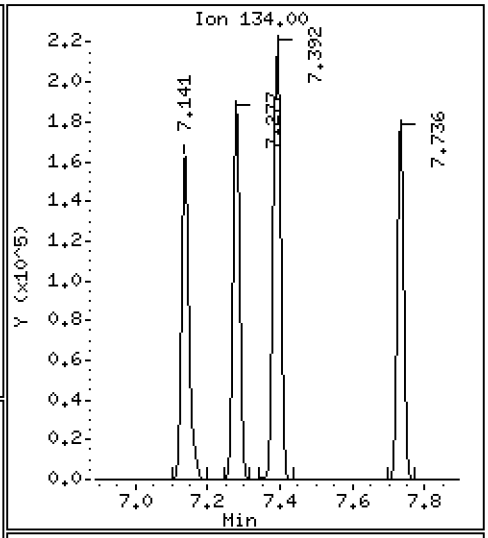
Sample Info: 1801;;1;2;4;;;

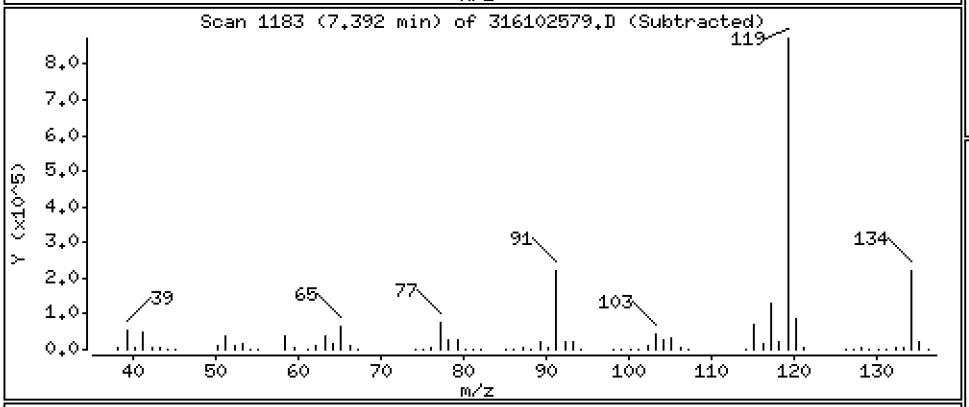
Purge Volume: 5.0 Operator: CJG

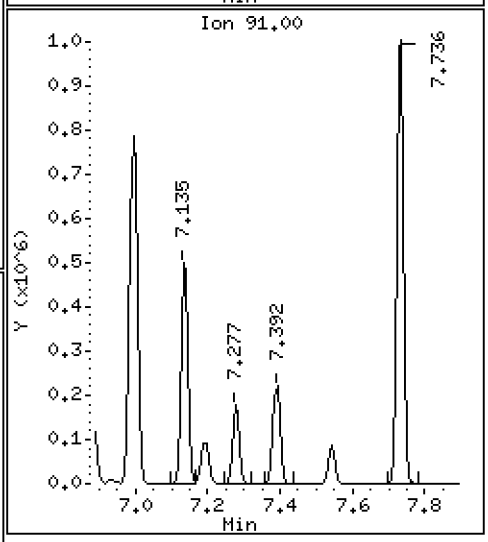
Column phase: DB-VRX Column diameter: 0.25

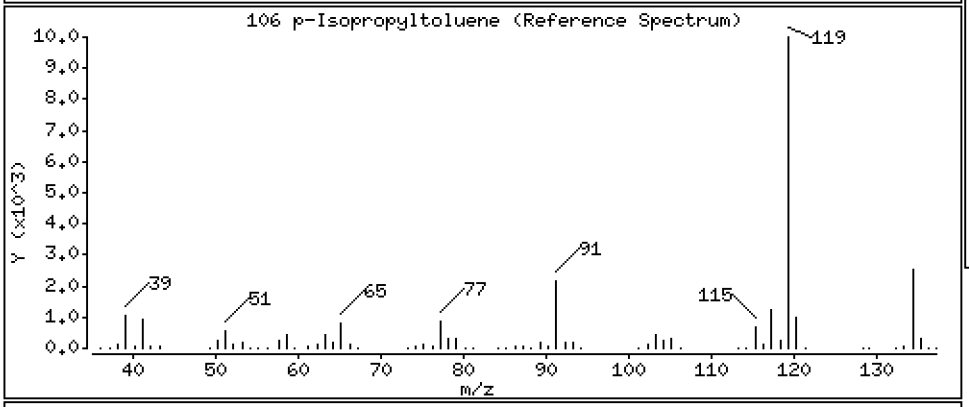
106 p-Isopropyltoluene Concentration: 51.3254 ug/L

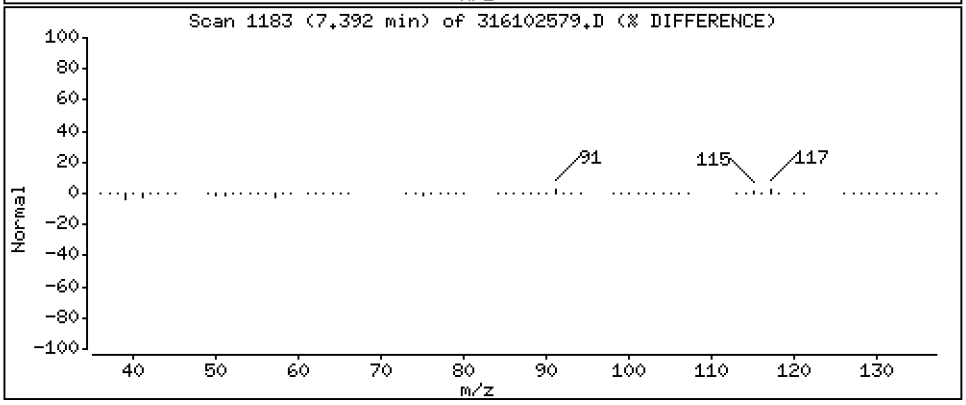












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 112

Date : 26-OCT-2016 08:14

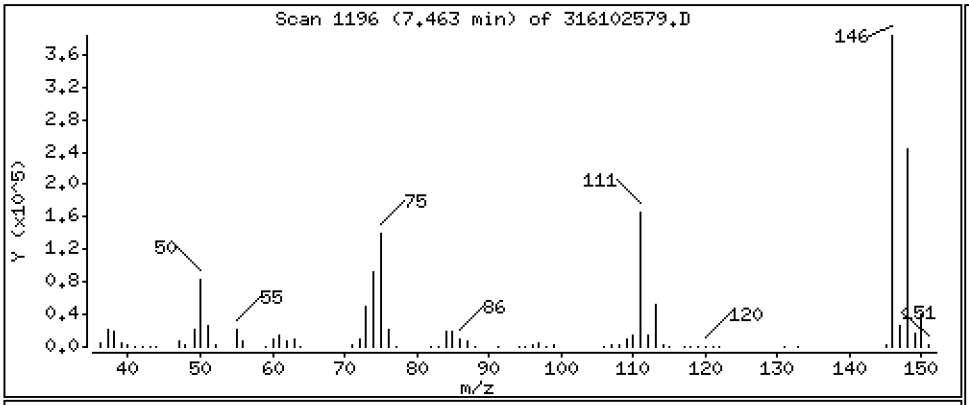
Client ID: Instrument: ms03.i

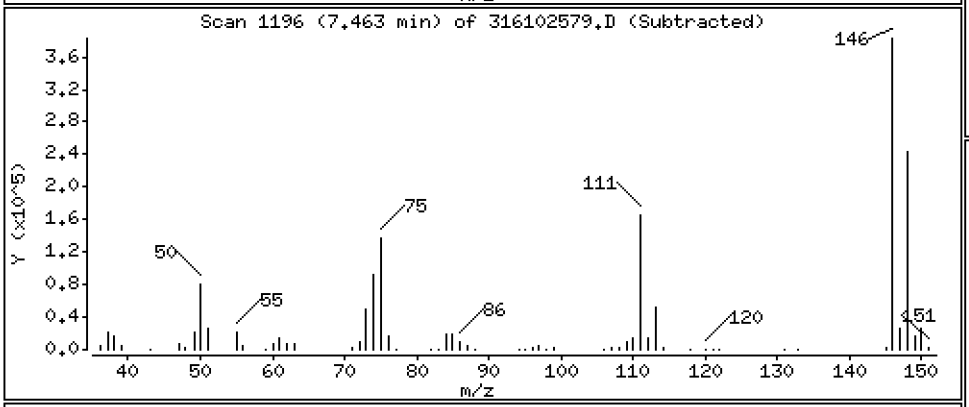
Sample Info: 1801;;1;2;4;;;

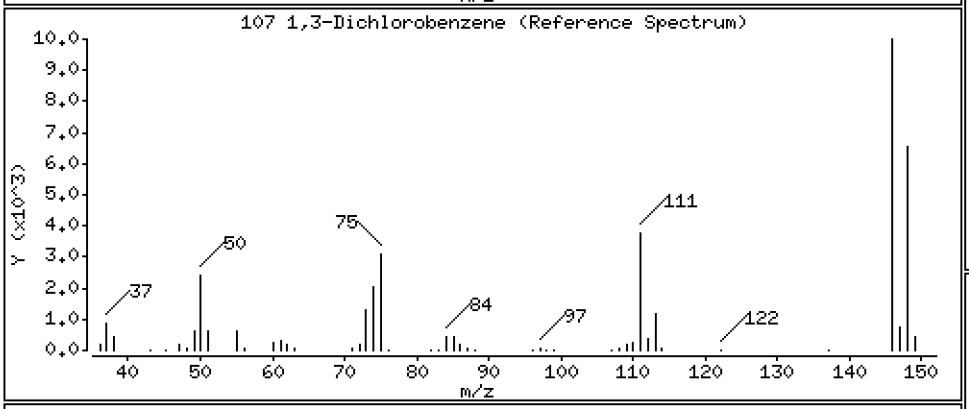
Purge Volume: 5.0 Operator: CJG

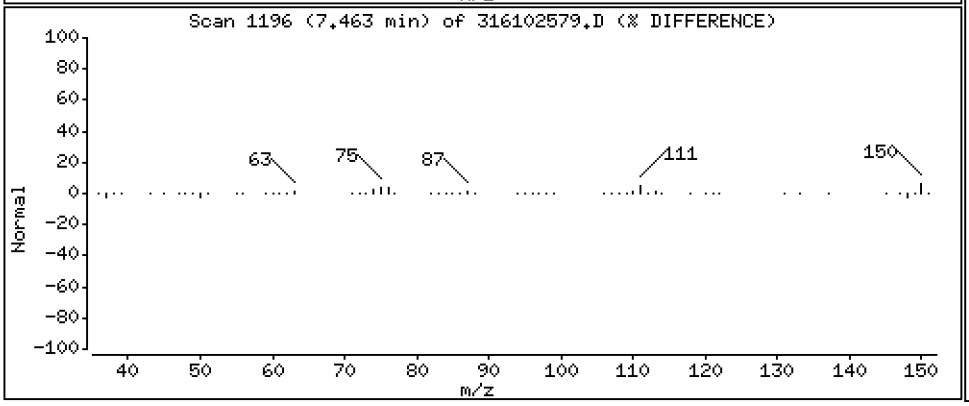
Column phase: DB-VRX Column diameter: 0.25

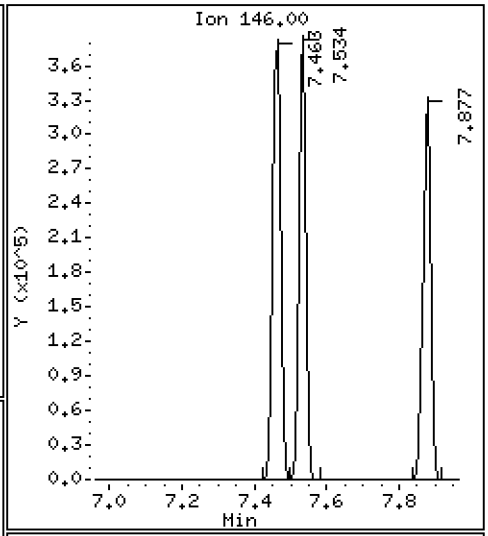
107 1,3-Dichlorobenzene Concentration: 49.4034 ug/L

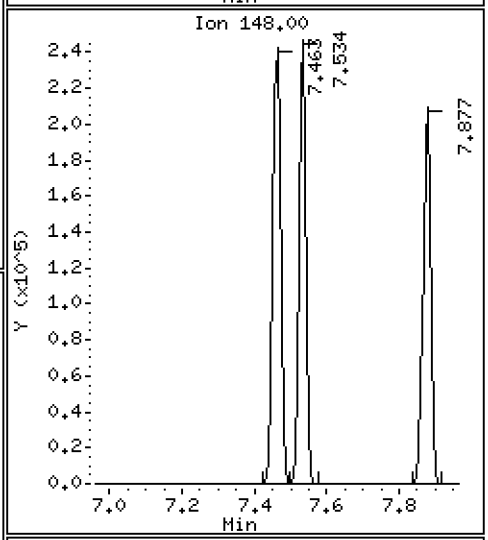


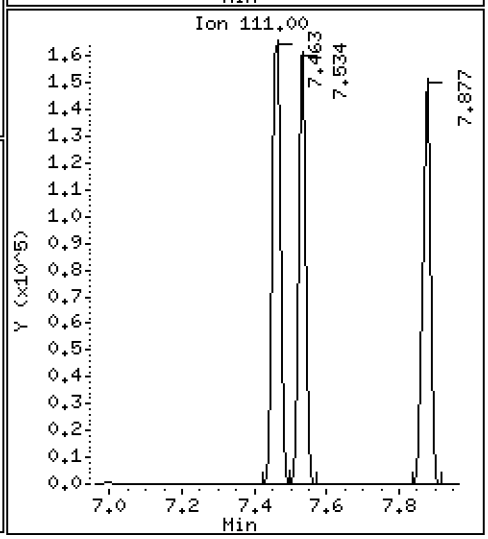












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 113

Date : 26-OCT-2016 08:14

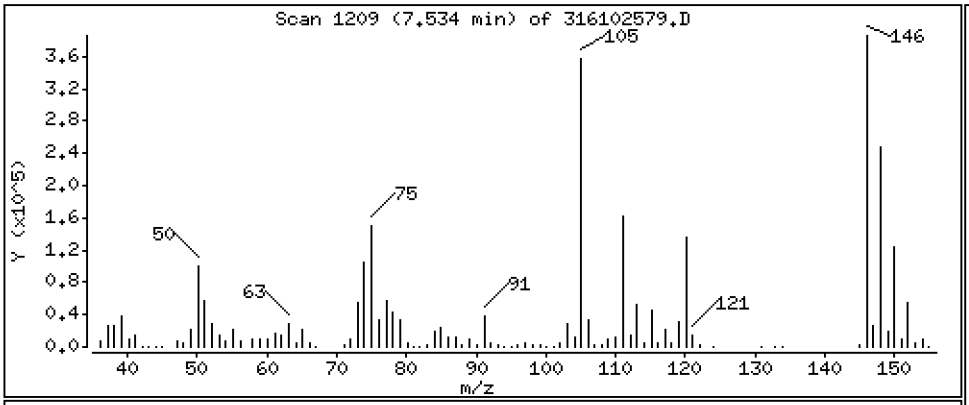
Client ID: Instrument: ms03.i

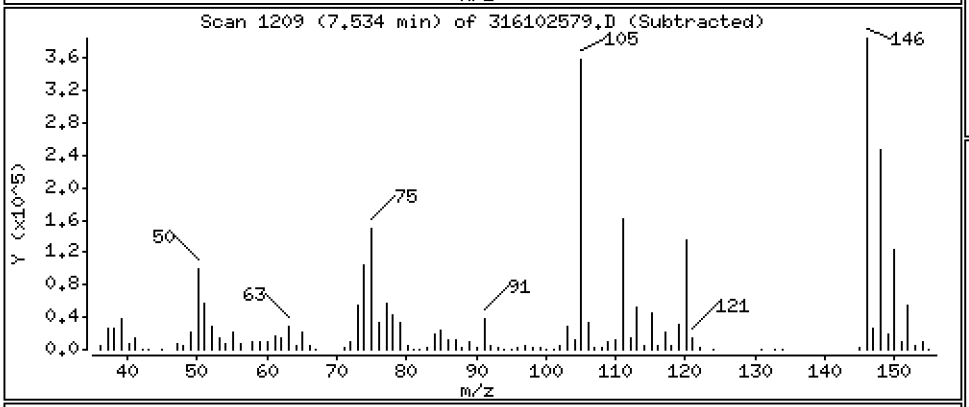
Sample Info: 1801;;1;2;4;;;

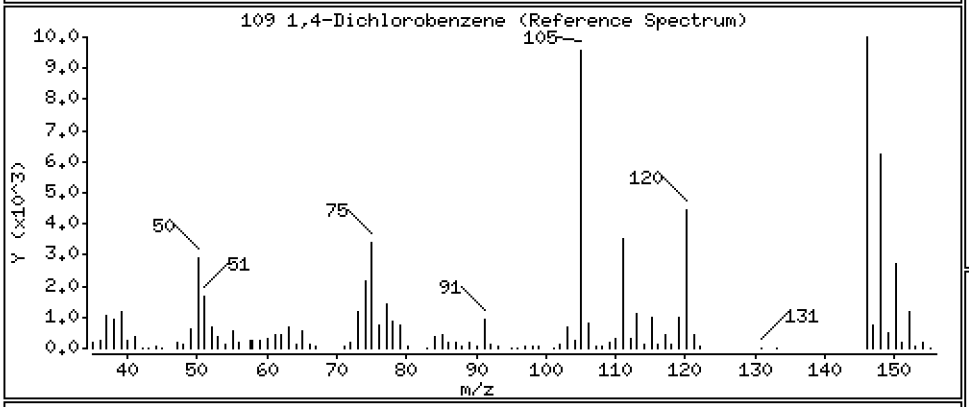
Purge Volume: 5.0 Operator: CJG

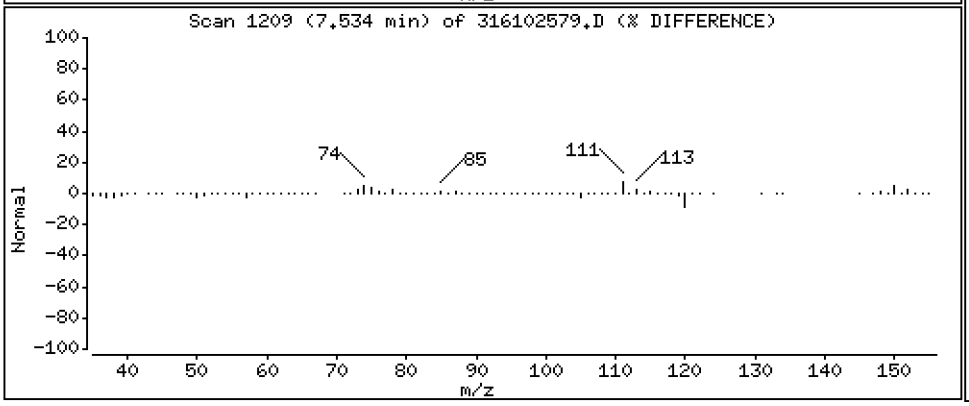
Column phase: DB-VRX Column diameter: 0.25

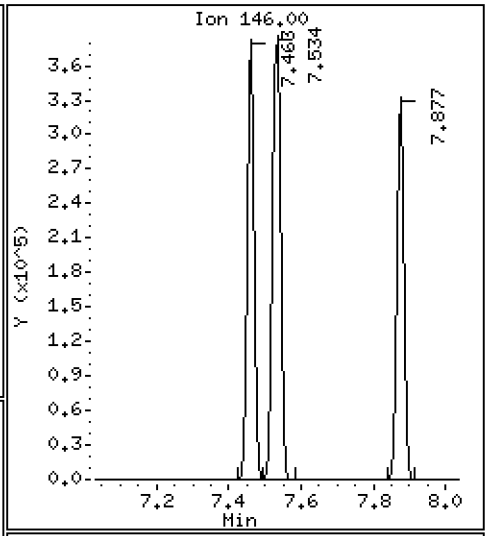
109 1,4-Dichlorobenzene Concentration: 49.8101 ug/L

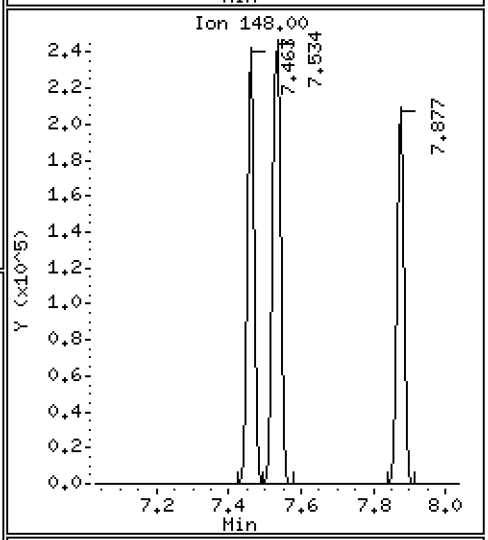


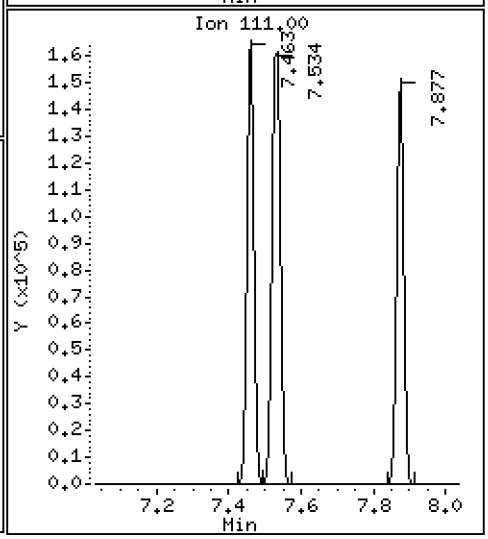












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 114

Date : 26-OCT-2016 08:14

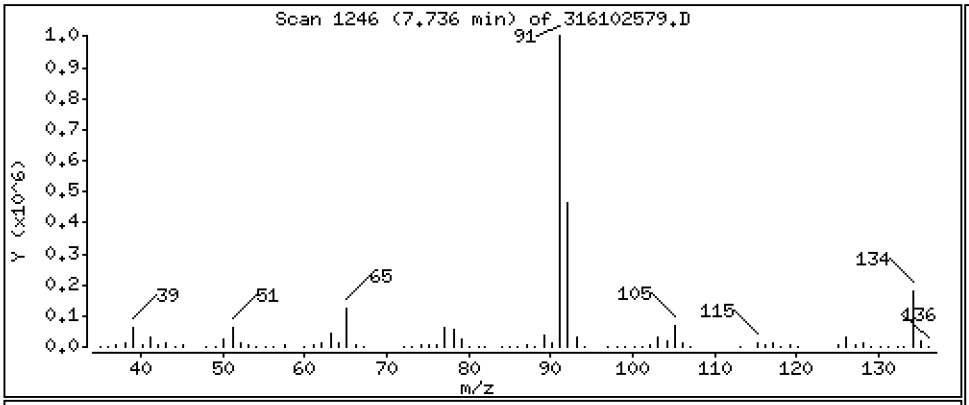
Client ID: Instrument: ms03.i

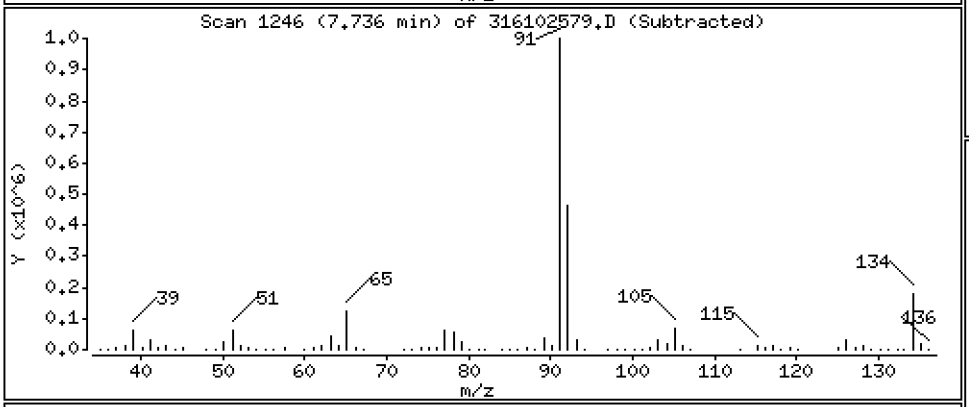
Sample Info: 1801;;1;2;4;;;

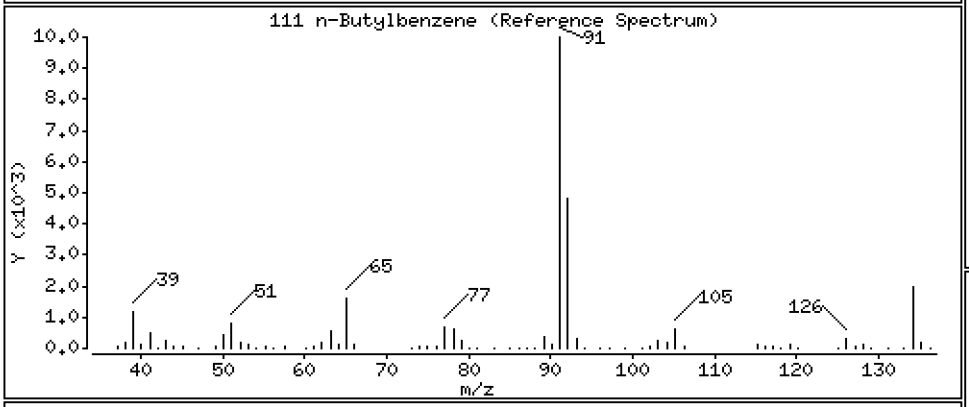
Purge Volume: 5.0 Operator: CJG

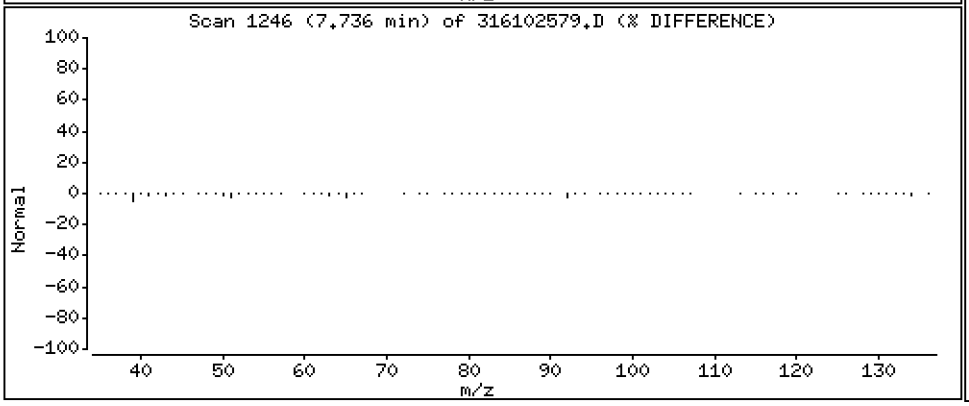
Column phase: DB-VRX Column diameter: 0.25

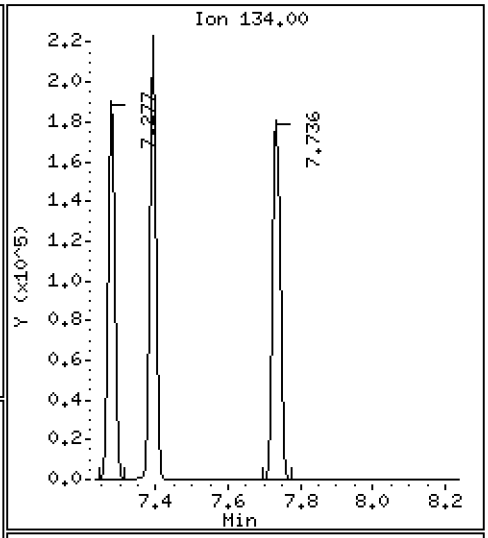
111 n-Butylbenzene Concentration: 49.5846 ug/L

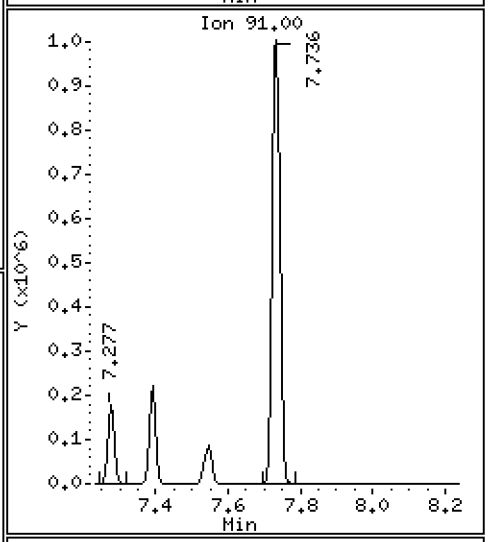


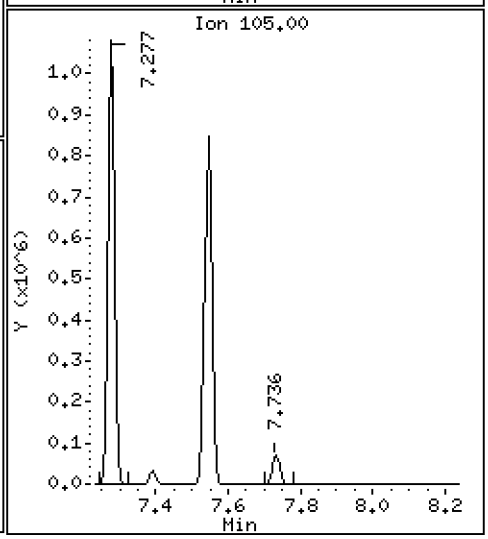












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 115

Date : 26-OCT-2016 08:14

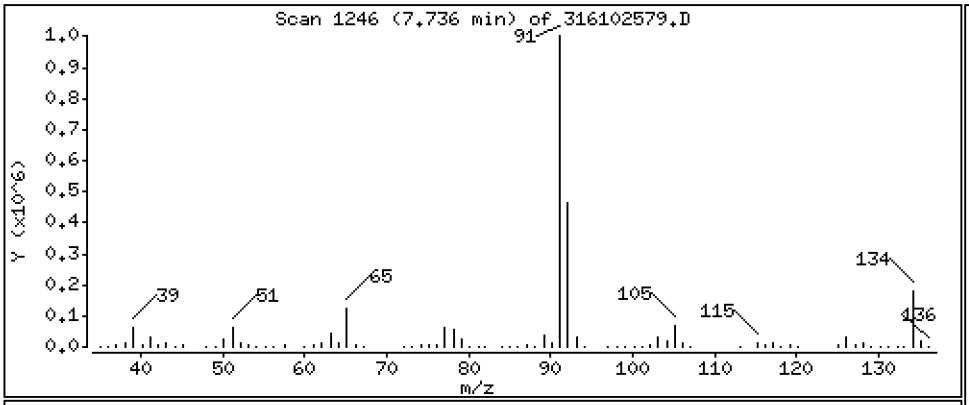
Client ID: Instrument: ms03.i

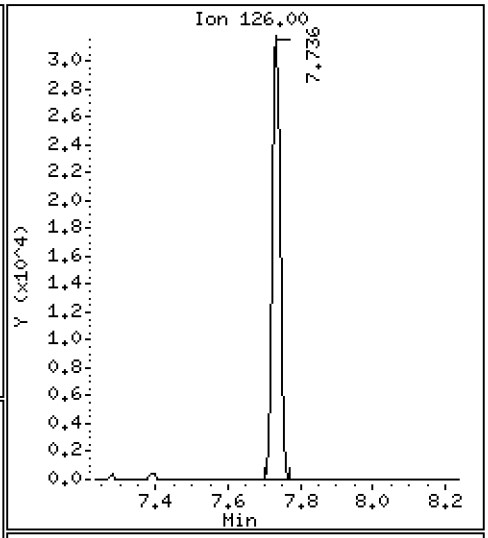
Sample Info: 1801;;1;2;4;;;

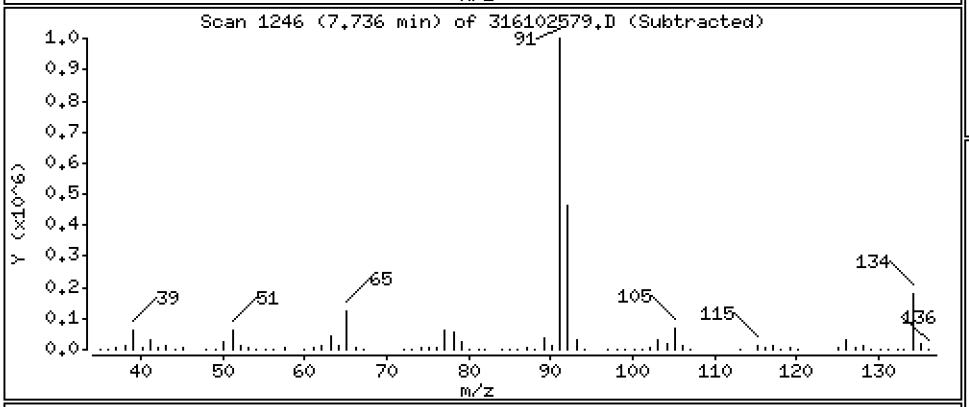
Purge Volume: 5.0 Operator: CJG

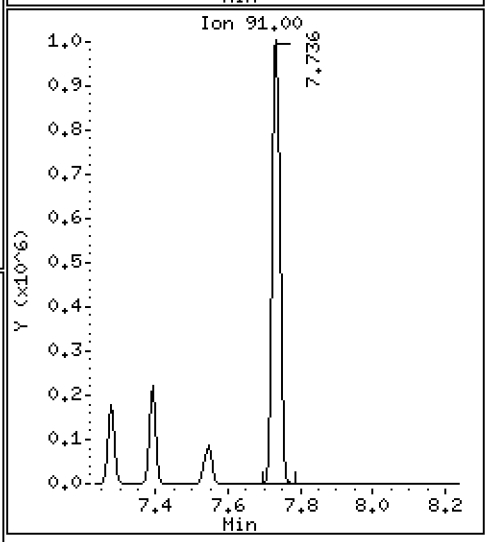
Column phase: DB-VRX Column diameter: 0.25

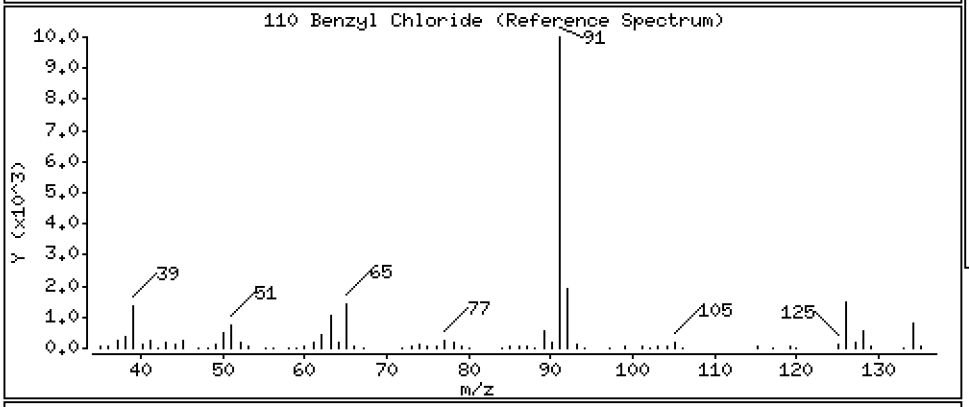
110 Benzyl Chloride Concentration: 30.4830 ug/L

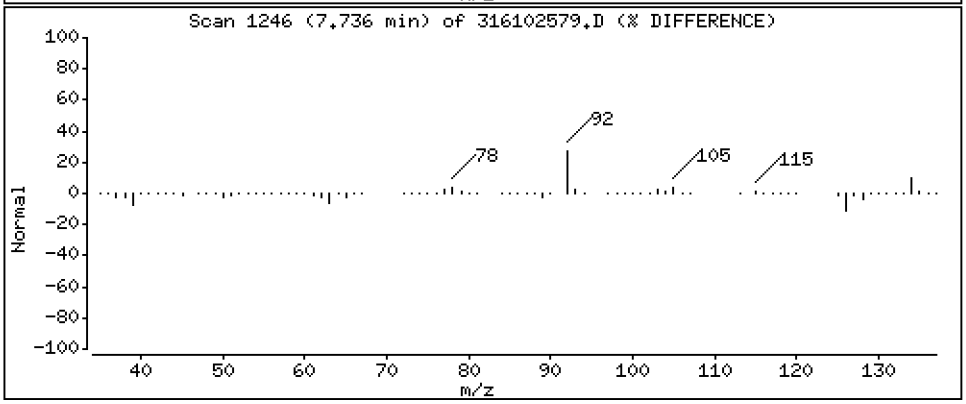












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 116

Date : 26-OCT-2016 08:14

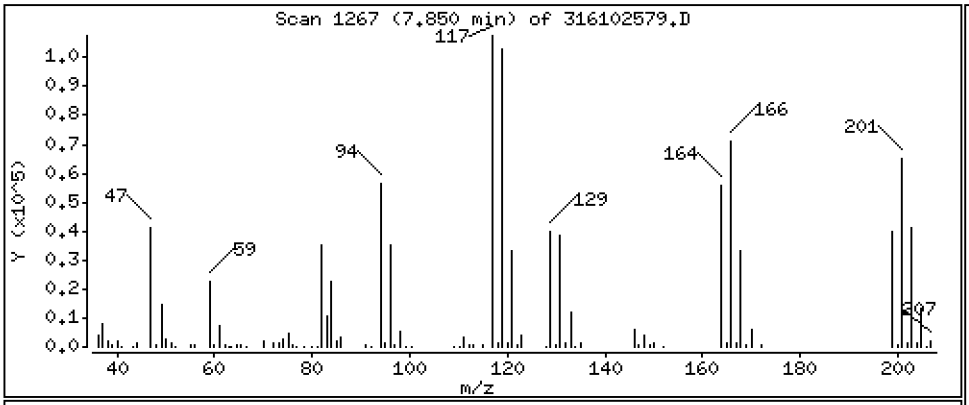
Client ID: Instrument: ms03.i

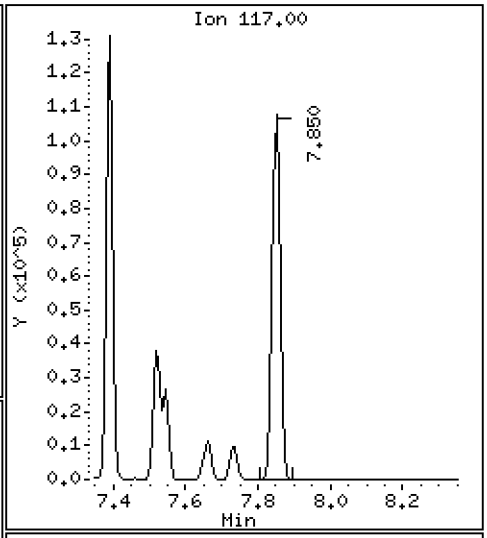
Sample Info: 1801;;1;2;4;;;

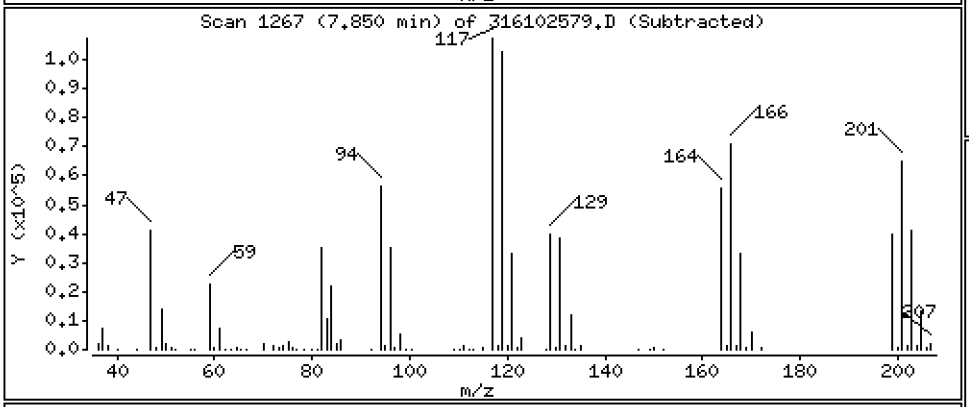
Purge Volume: 5.0 Operator: CJG

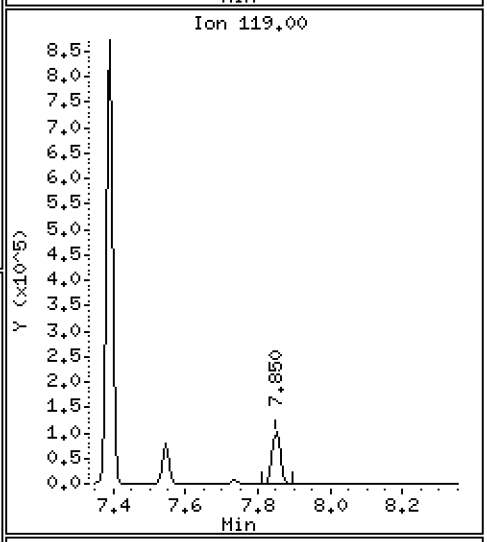
Column phase: DB-VRX Column diameter: 0.25

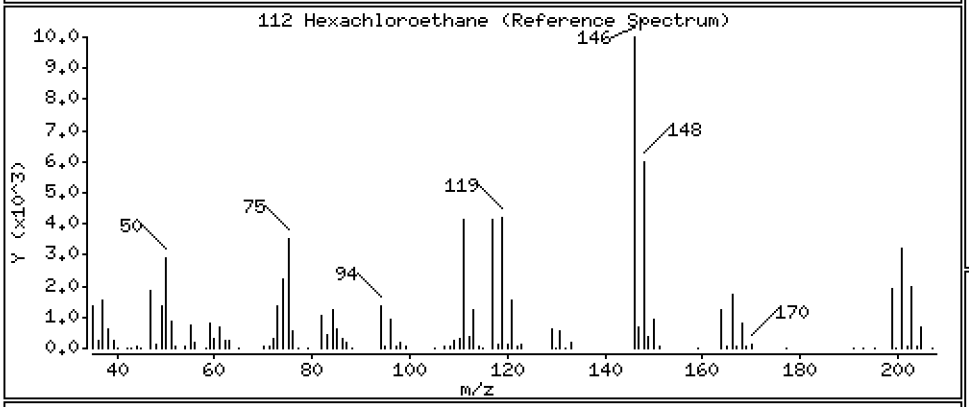
112 Hexachloroethane Concentration: 45.9346 ug/L

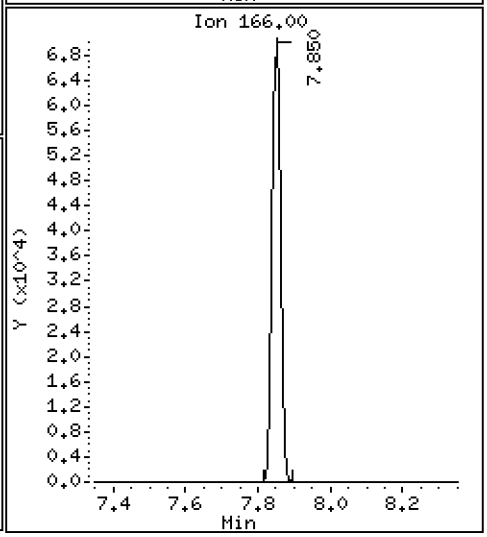


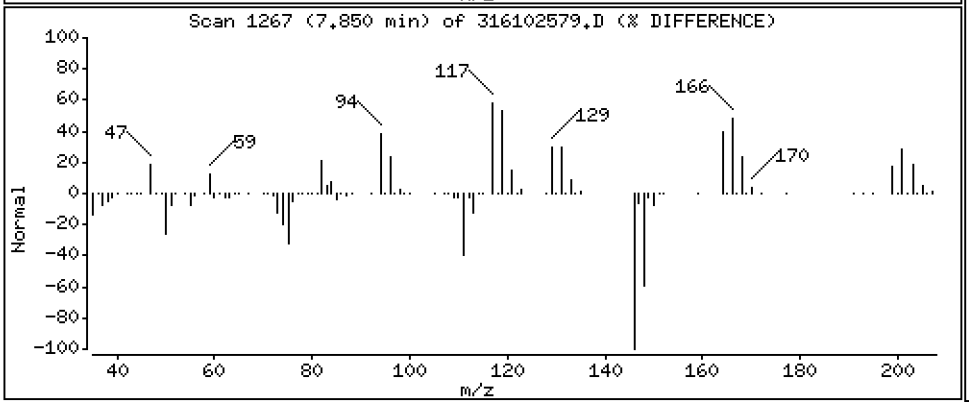












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 117

Date : 26-OCT-2016 08:14

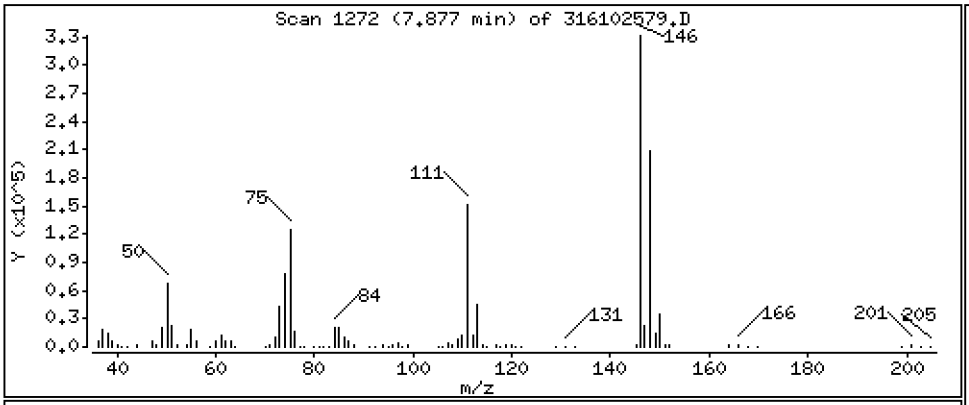
Client ID: Instrument: ms03.i

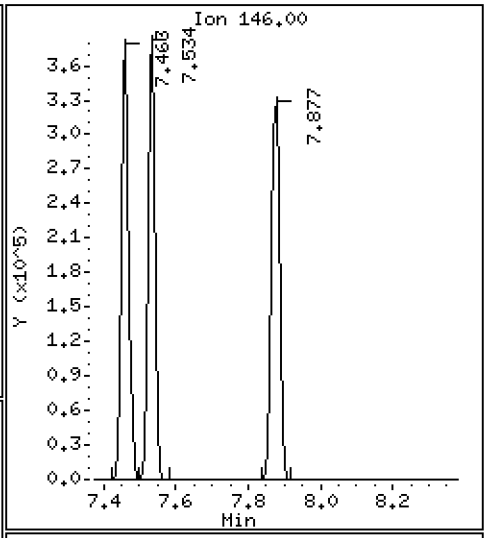
Sample Info: 1801;;1;2;4;;;

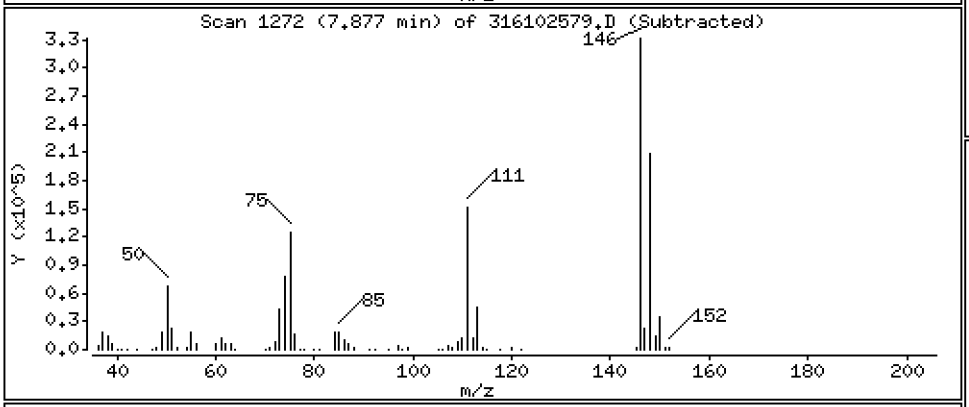
Purge Volume: 5.0 Operator: CJG

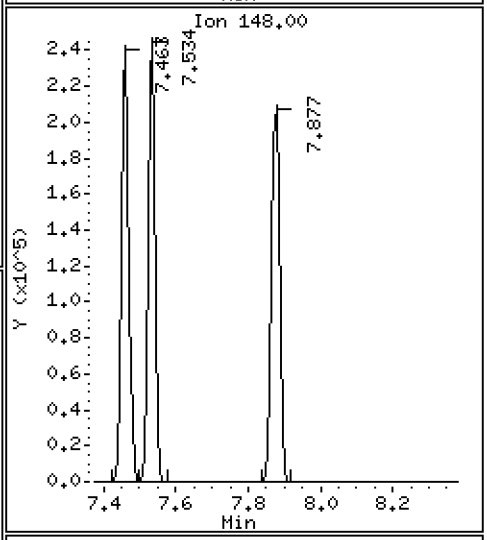
Column phase: DB-VRX Column diameter: 0.25

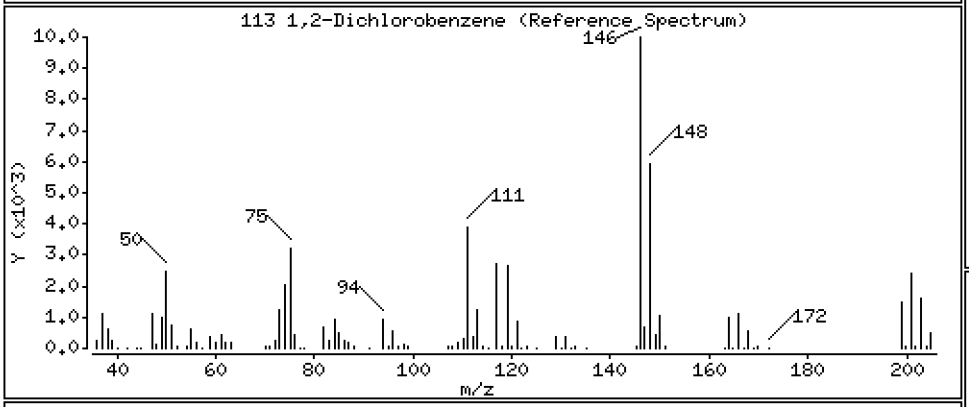
113 1,2-Dichlorobenzene Concentration: 49.5039 ug/L

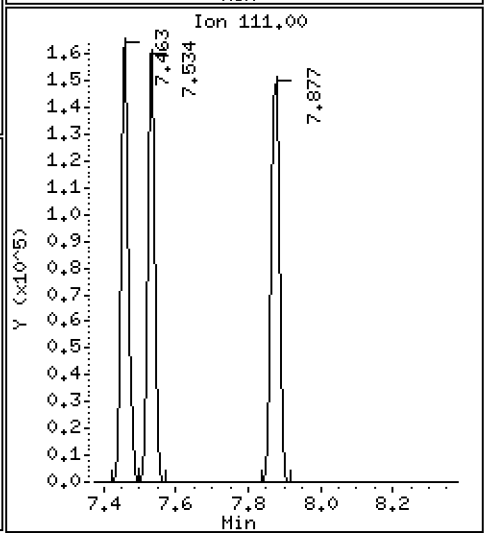


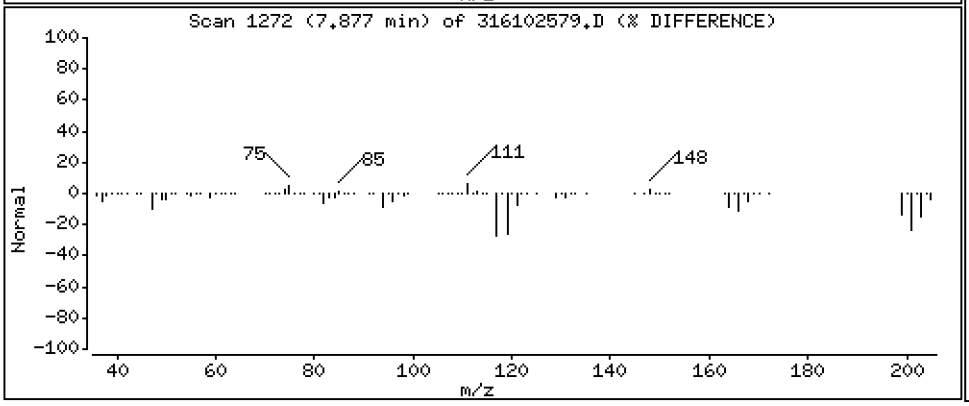












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 118

Date : 26-OCT-2016 08:14

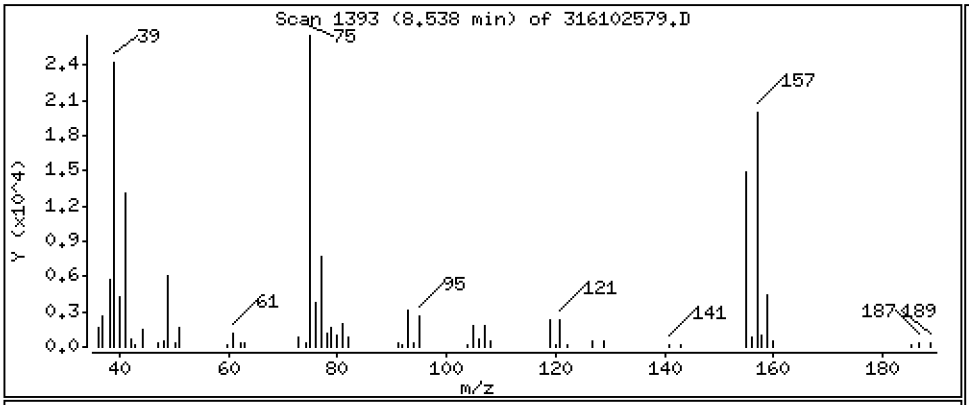
Client ID: Instrument: ms03.i

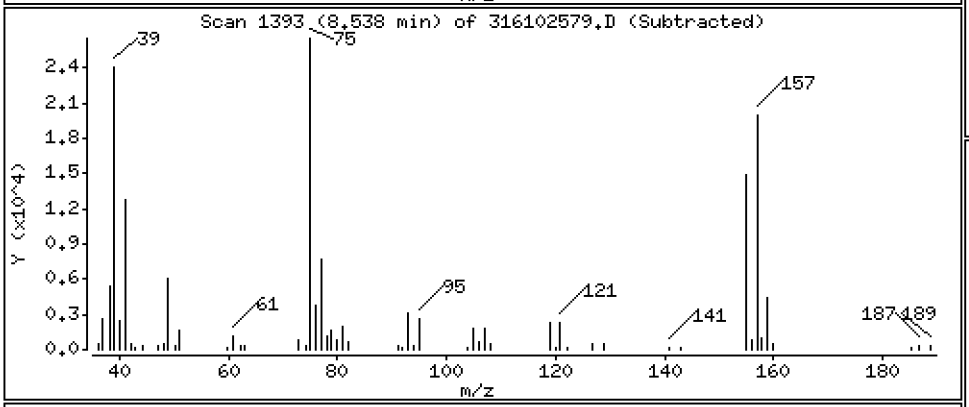
Sample Info: 1801;;1;2;4;;;

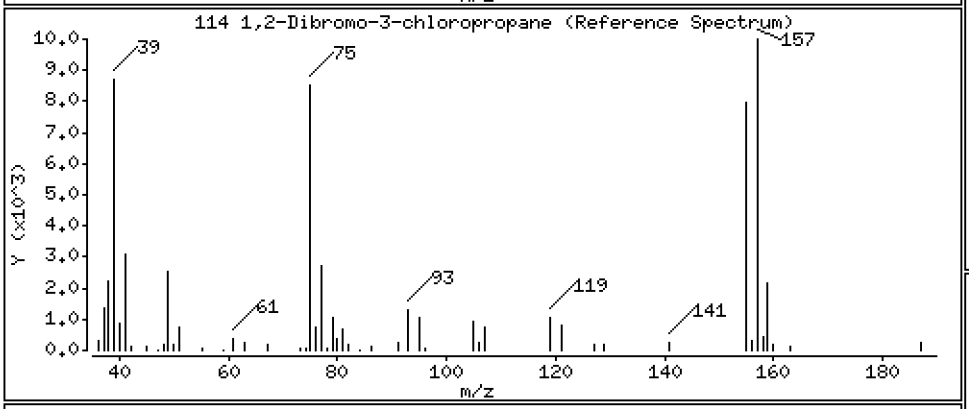
Purge Volume: 5.0 Operator: CJG

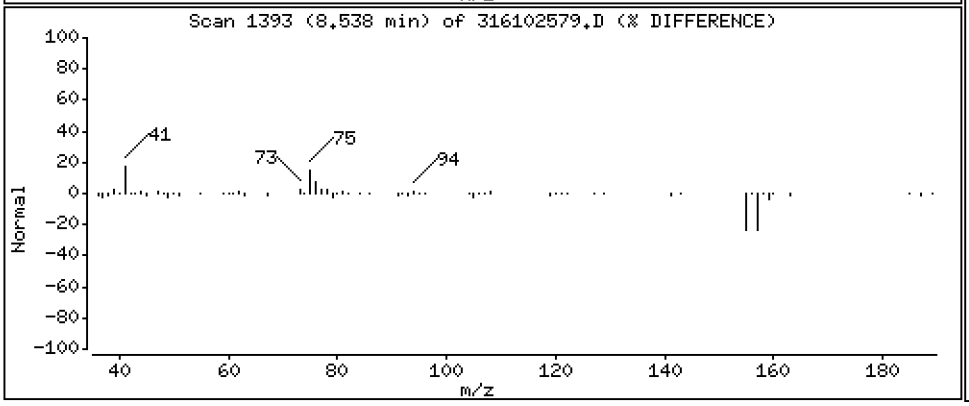
Column phase: DB-VRX Column diameter: 0.25

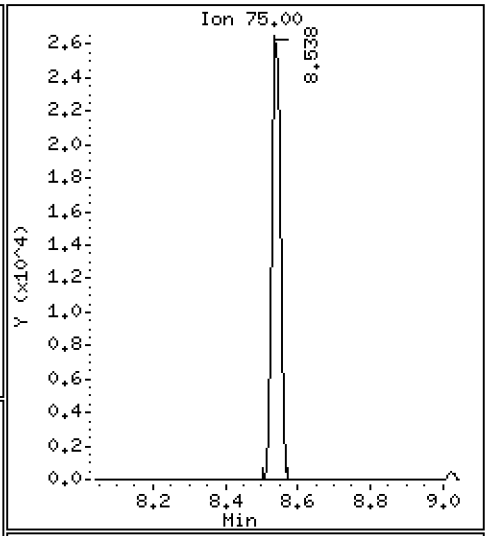
114 1,2-Dibromo-3-chloropropane Concentration: 48.1462 ug/L

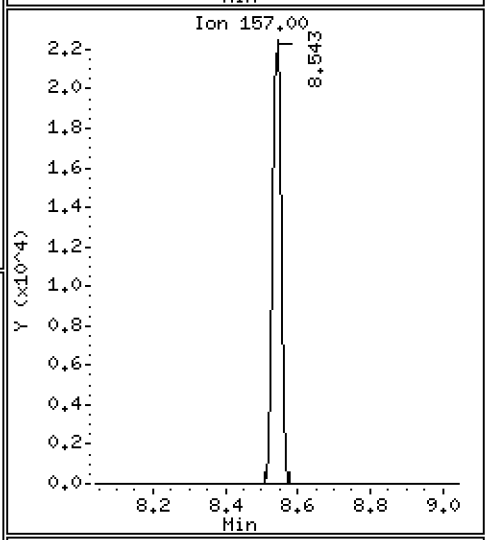


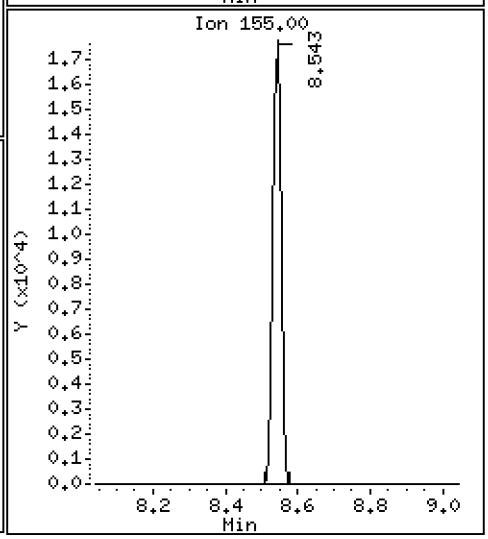












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 119

Date : 26-OCT-2016 08:14

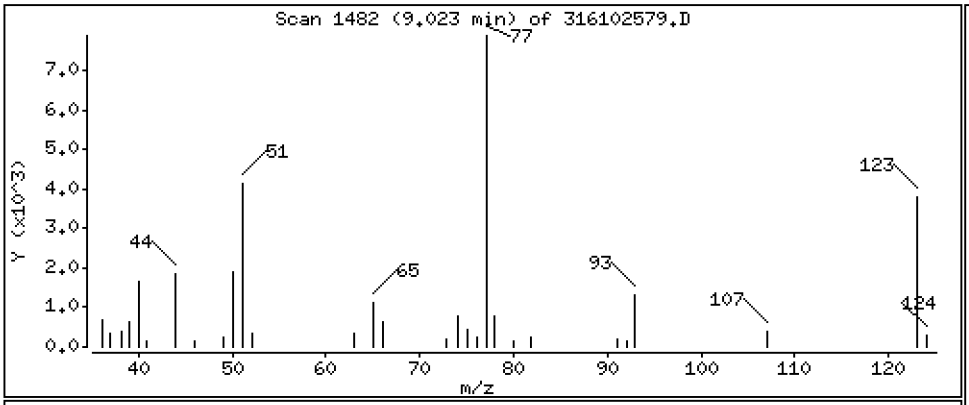
Client ID: Instrument: ms03.i

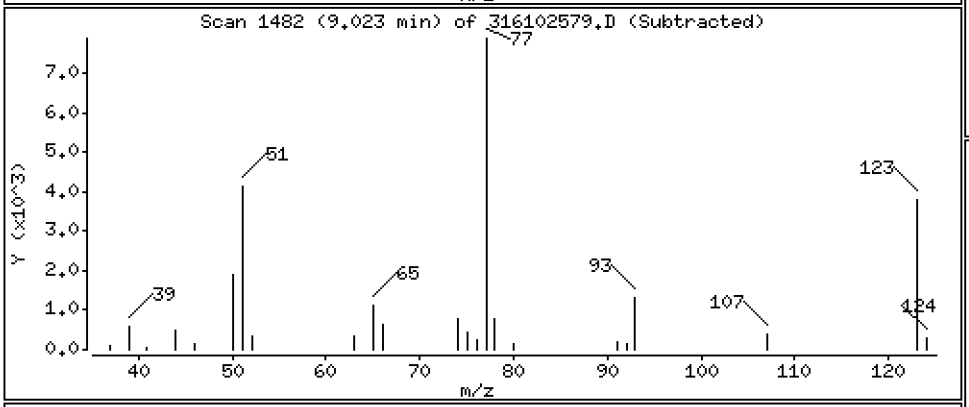
Sample Info: 1801;;1;2;4;;;

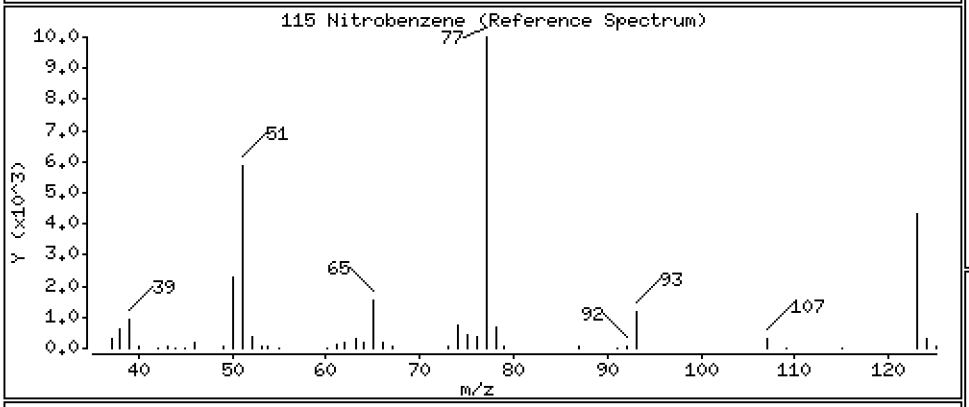
Purge Volume: 5.0 Operator: CJG

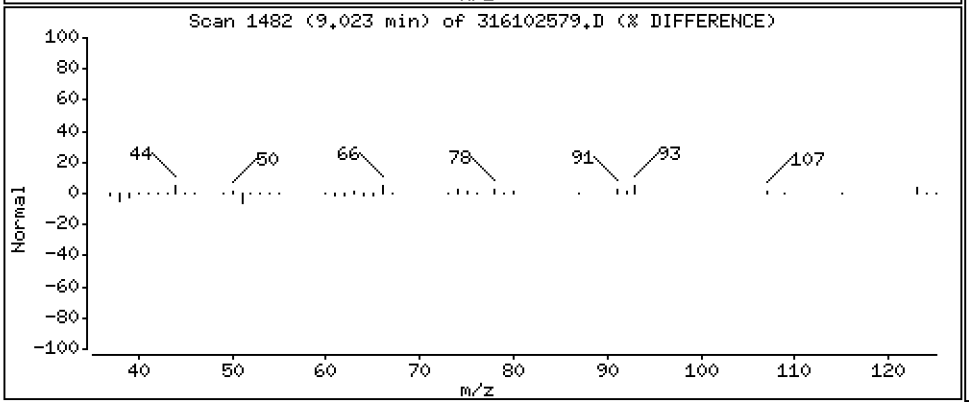
Column phase: DB-VRX Column diameter: 0.25

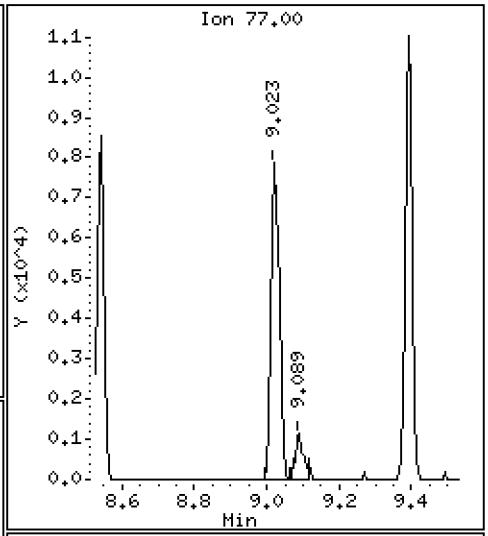
115 Nitrobenzene Concentration: 335.061 ug/L

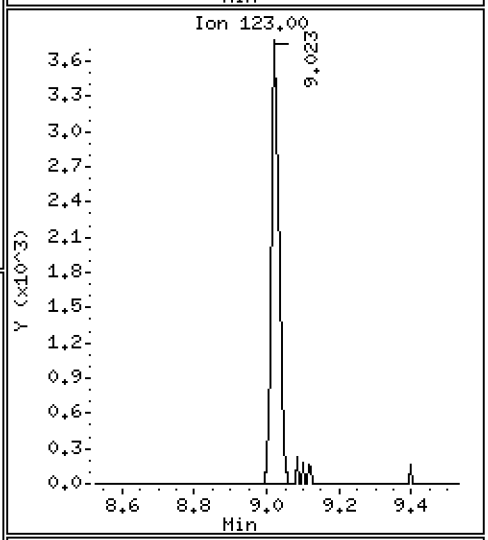


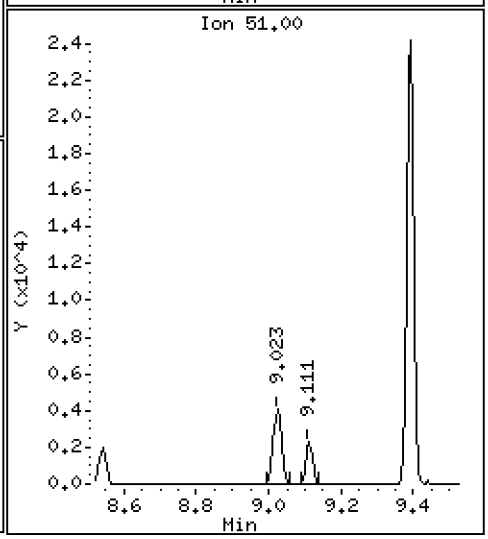












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 120

Date : 26-OCT-2016 08:14

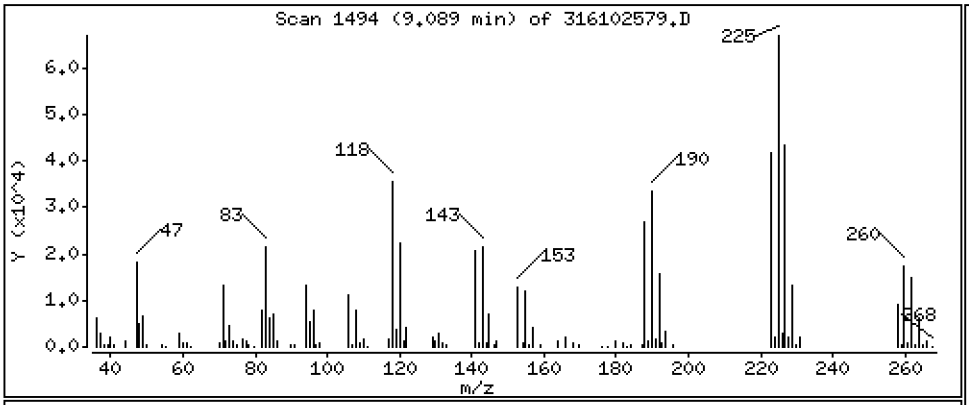
Client ID: Instrument: ms03.i

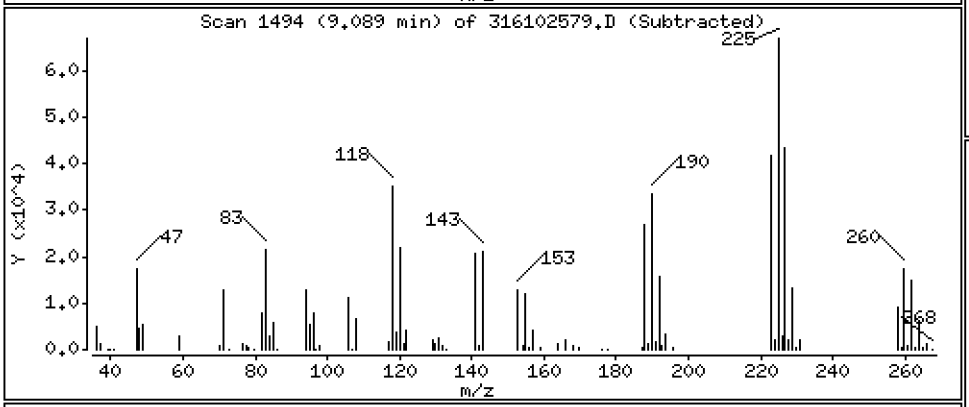
Sample Info: 1801;;1;2;4;;;

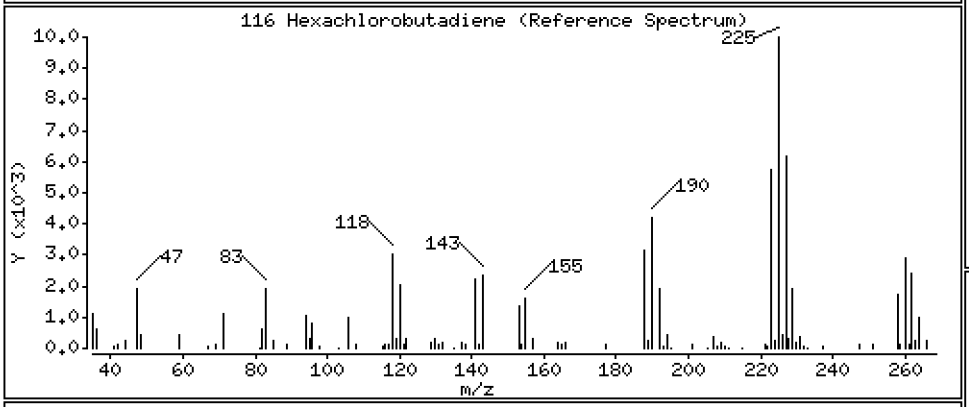
Purge Volume: 5.0 Operator: CJG

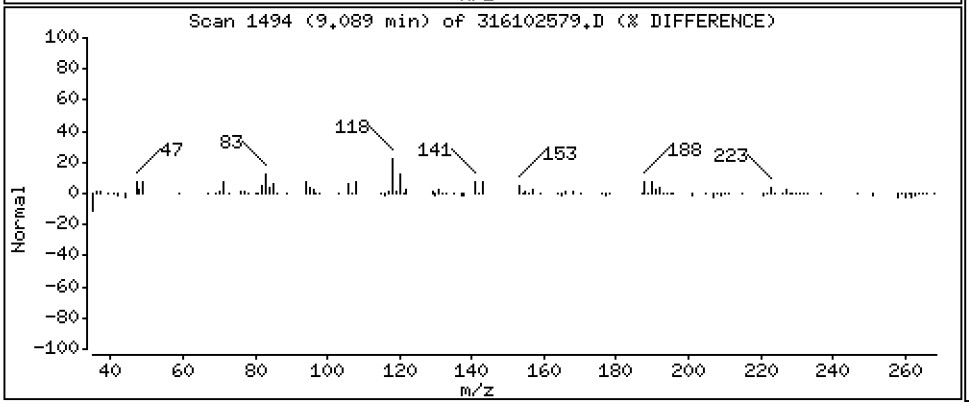
Column phase: DB-VRX Column diameter: 0.25

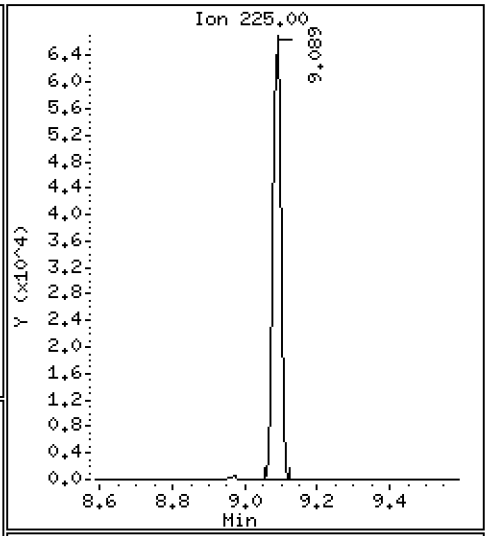
116 Hexachlorobutadiene Concentration: 50.9436 ug/L

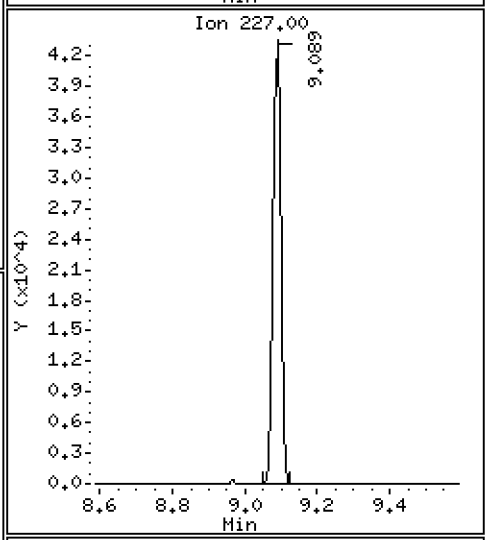


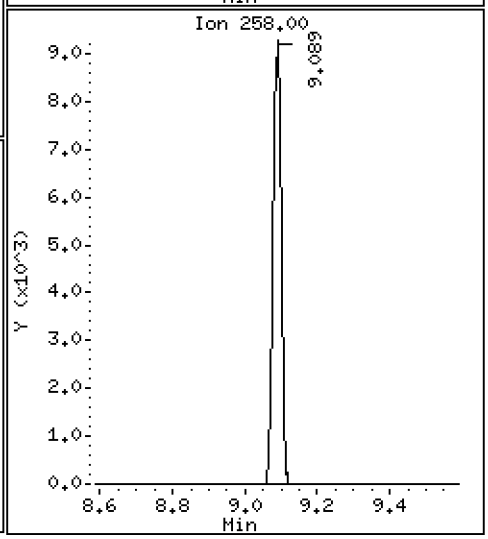












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 121

Date : 26-OCT-2016 08:14

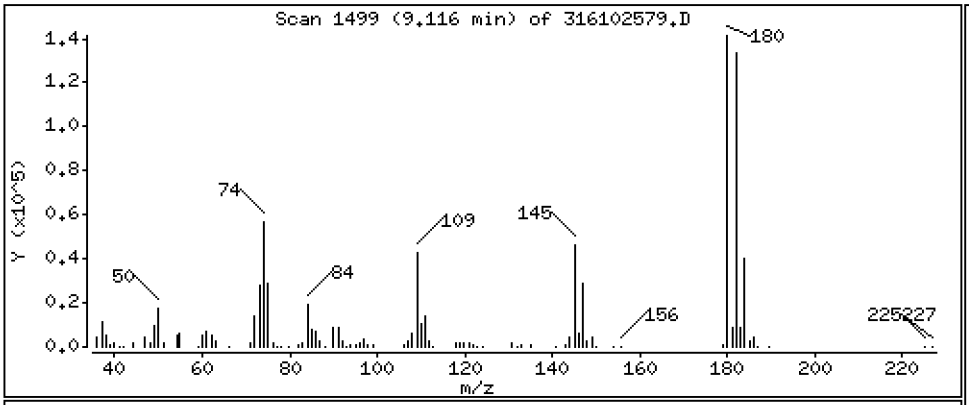
Client ID: Instrument: ms03.i

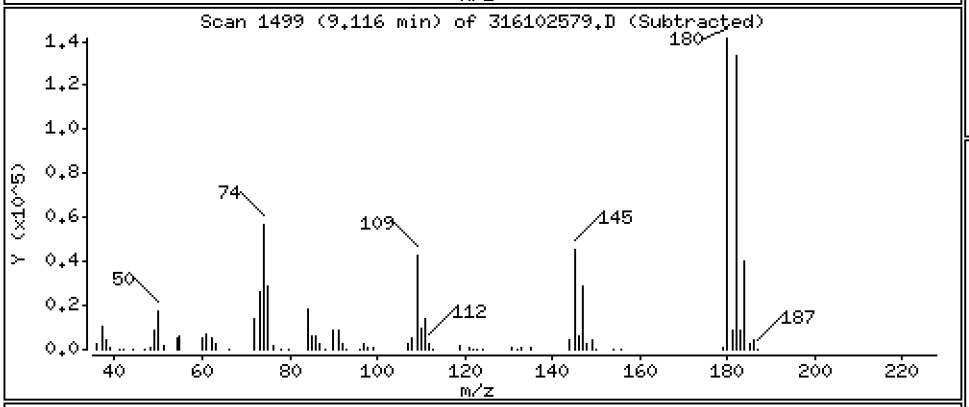
Sample Info: 1801;;1;2;4;;;

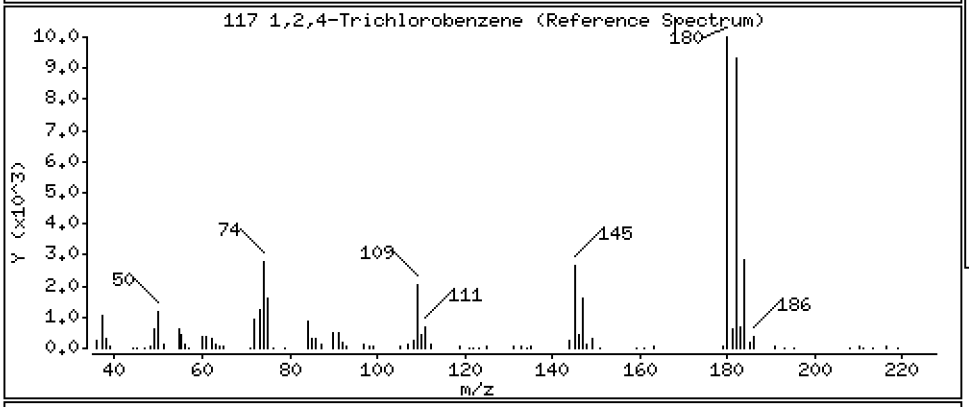
Purge Volume: 5.0 Operator: CJG

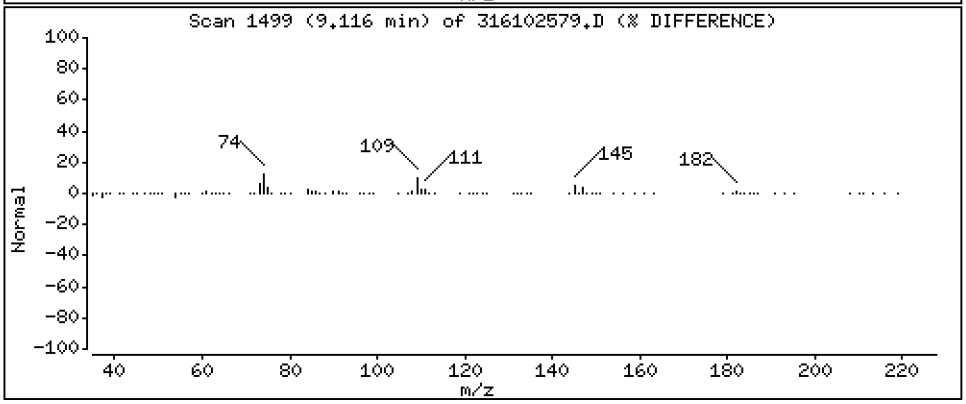
Column phase: DB-VRX Column diameter: 0.25

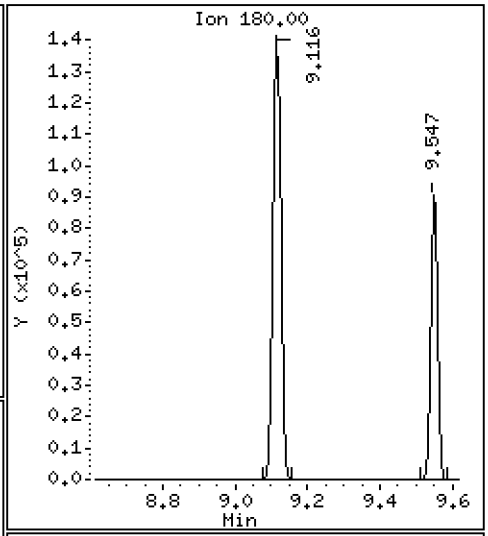
117 1,2,4-Trichlorobenzene Concentration: 46.7886 ug/L

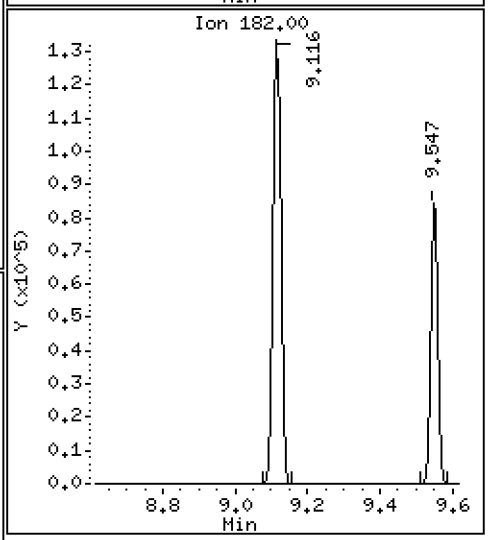












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 122

Date : 26-OCT-2016 08:14

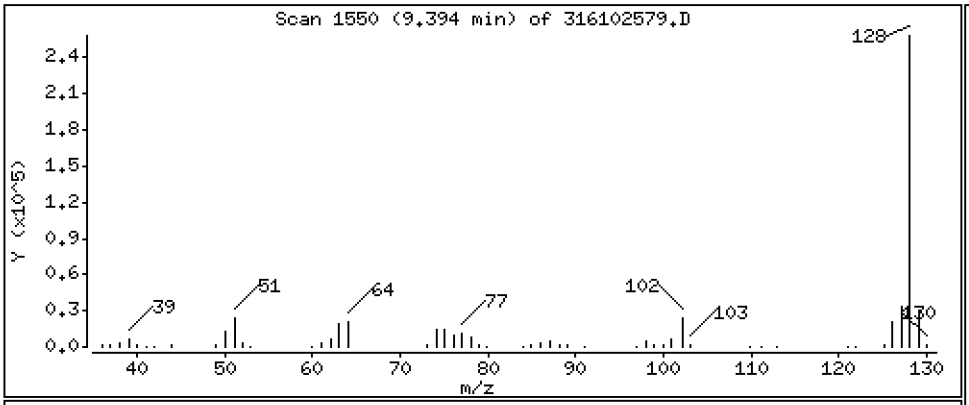
Client ID: Instrument: ms03.i

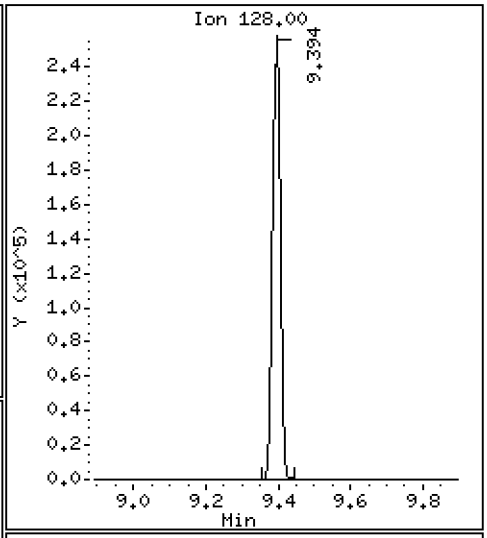
Sample Info: 1801;;1;2;4;;;

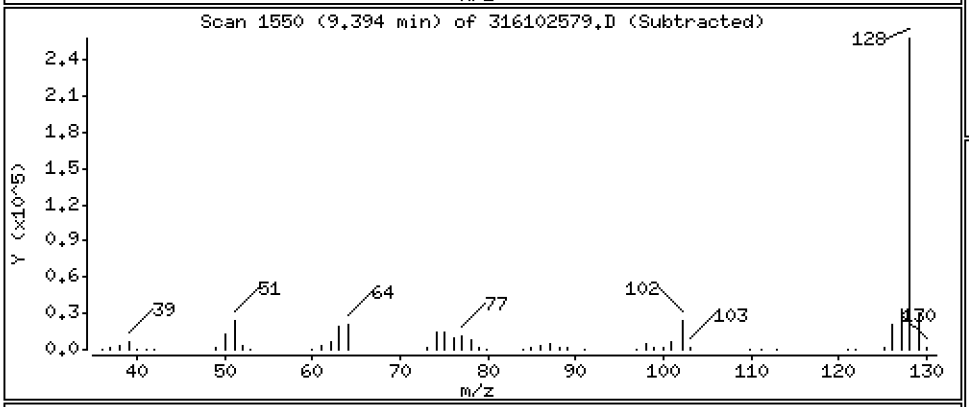
Purge Volume: 5.0 Operator: CJG

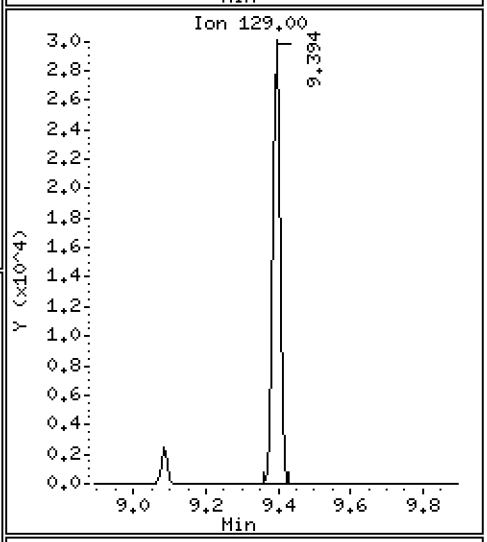
Column phase: DB-VRX Column diameter: 0.25

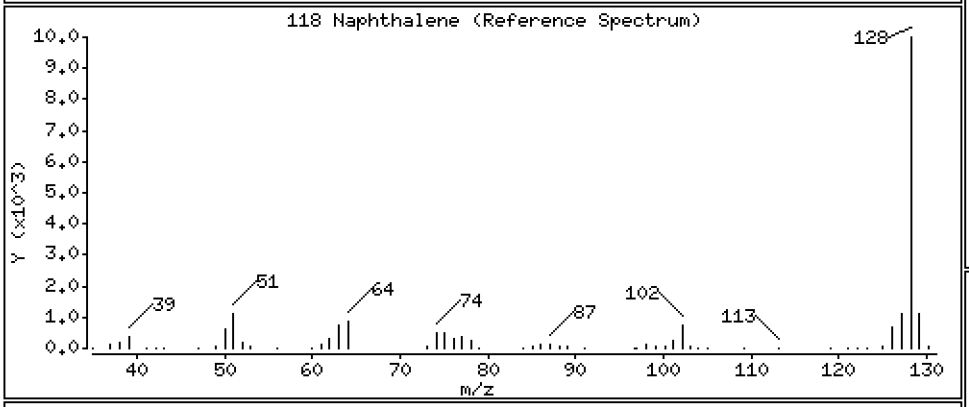
118 Naphthalene Concentration: 45.0519 ug/L

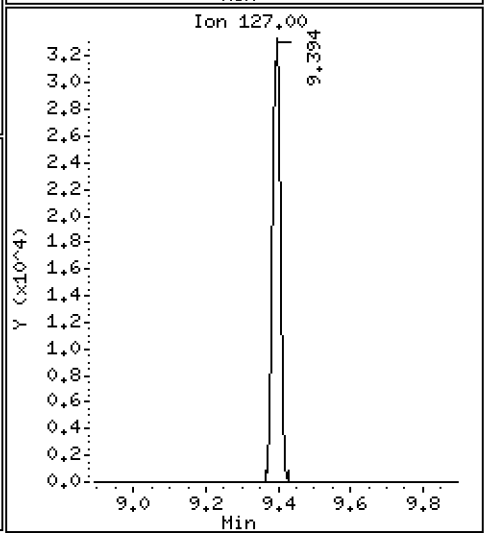


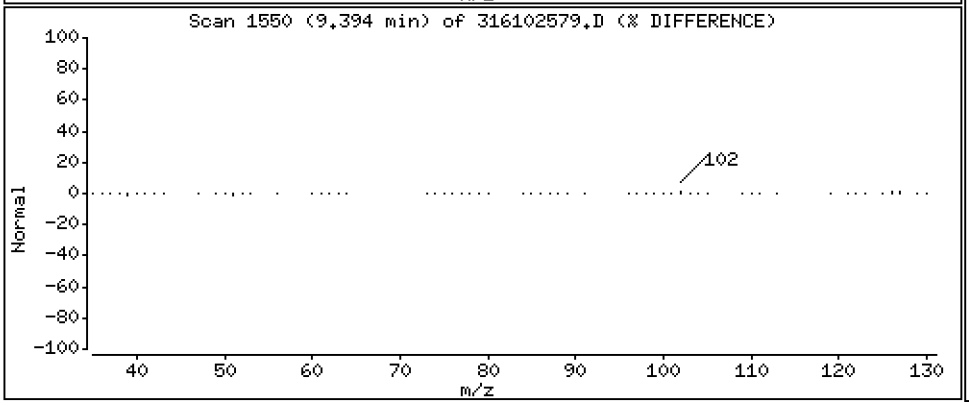












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 123

Date : 26-OCT-2016 08:14

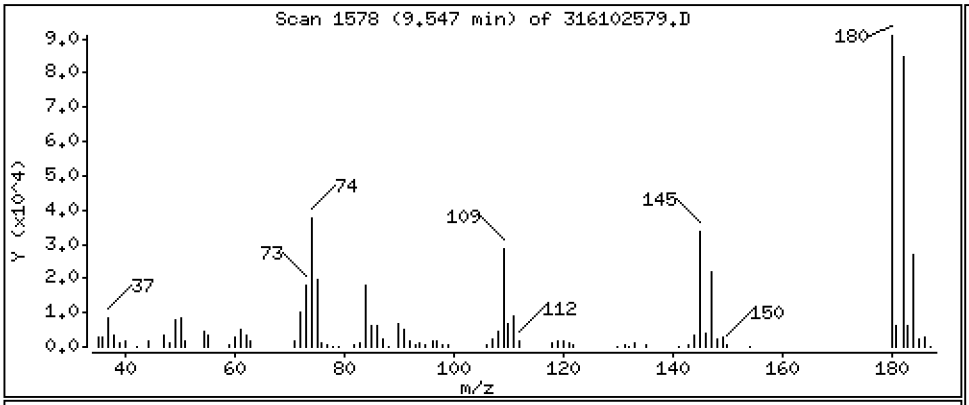
Client ID: Instrument: ms03.i

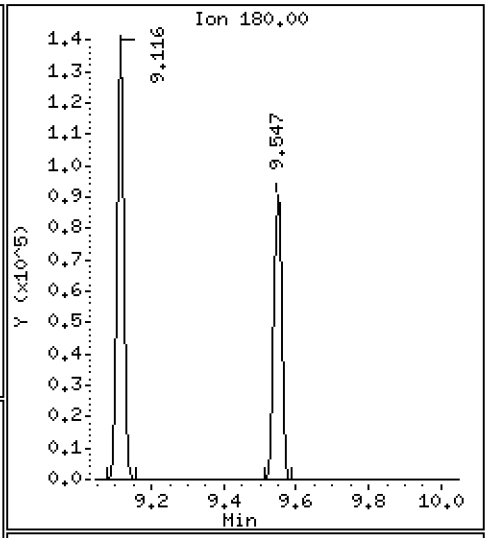
Sample Info: 1801;;1;2;4;;;

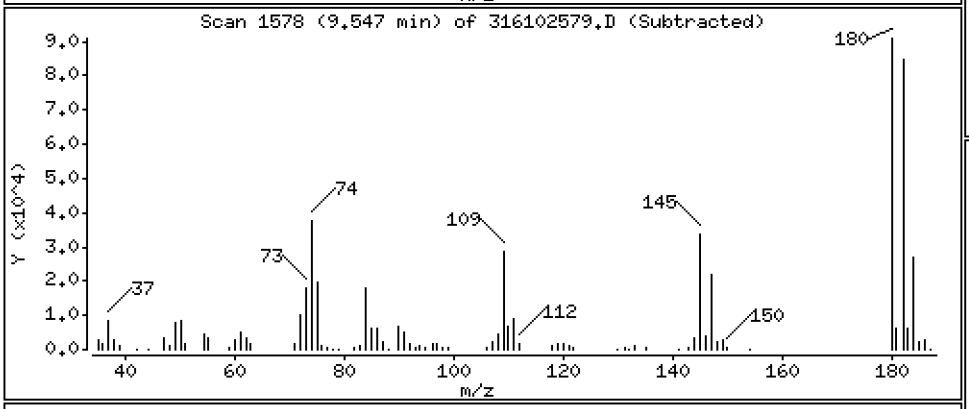
Purge Volume: 5.0 Operator: CJG

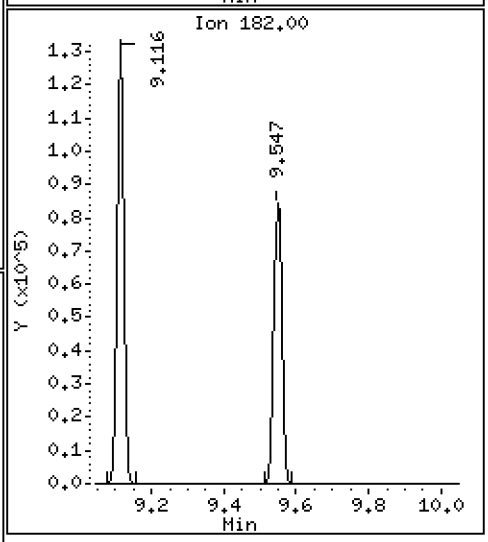
Column phase: DB-VRX Column diameter: 0.25

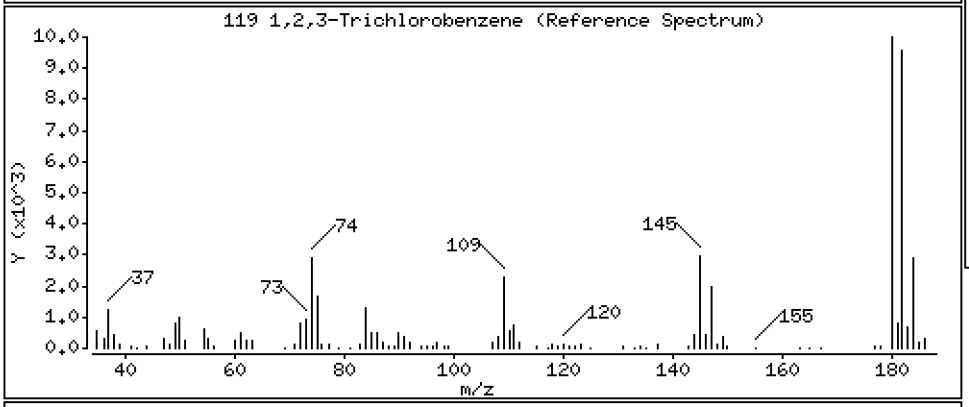
119 1,2,3-Trichlorobenzene Concentration: 47.4721 ug/L

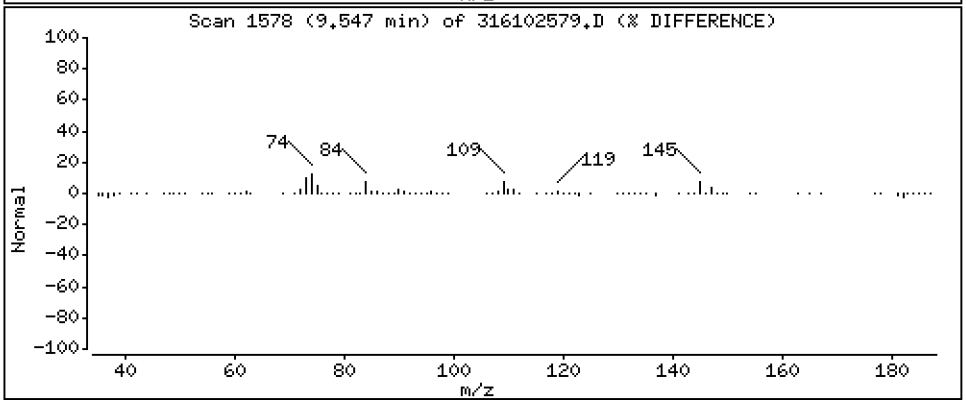












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 124

Date : 26-OCT-2016 08:14

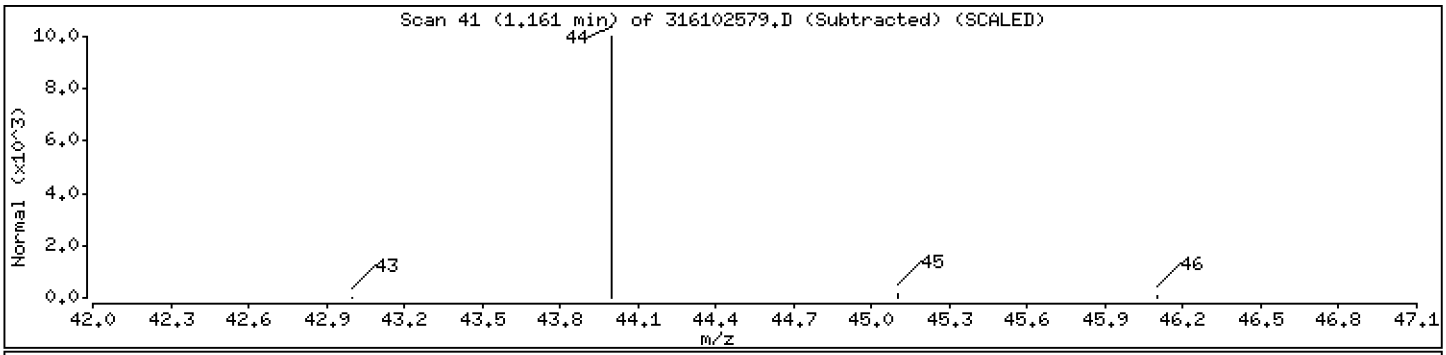
Client ID: Instrument: ms03.i

Sample Info: 1801;;1;2;4;;;

Purge Volume: 5.0 Operator: CJG

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 125

Date : 26-OCT-2016 08:14

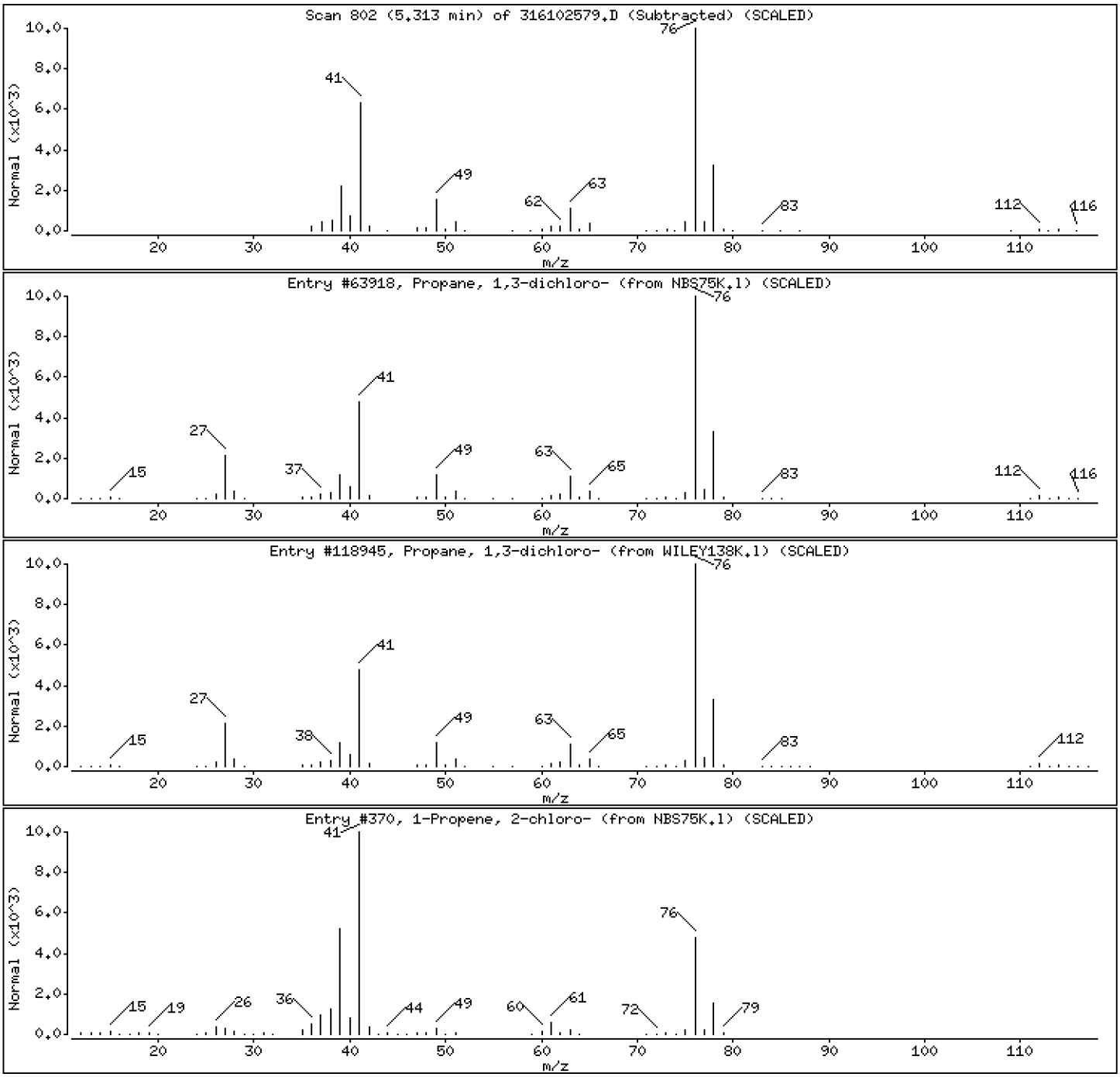
Client ID: Instrument: ms03.i

Sample Info: 1801;;1;2;4;;;

Purge Volume: 5.0 Operator: CJG

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propane, 1,3-dichloro-	142-28-9	NBS75K.l	63918	83	C3H6C12	112
Propane, 1,3-dichloro-	142-28-9	WILEY138K.l	118945	83	C3H6C12	112
1-Propene, 2-chloro-	557-98-2	NBS75K.l	370	78	C3H5Cl	76



Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 126

Date : 26-OCT-2016 08:14

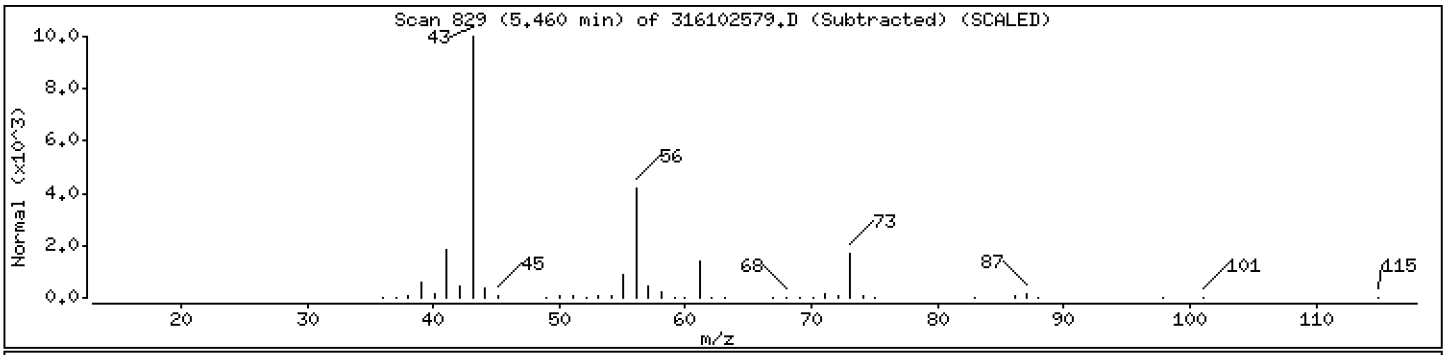
Client ID: Instrument: ms03.i

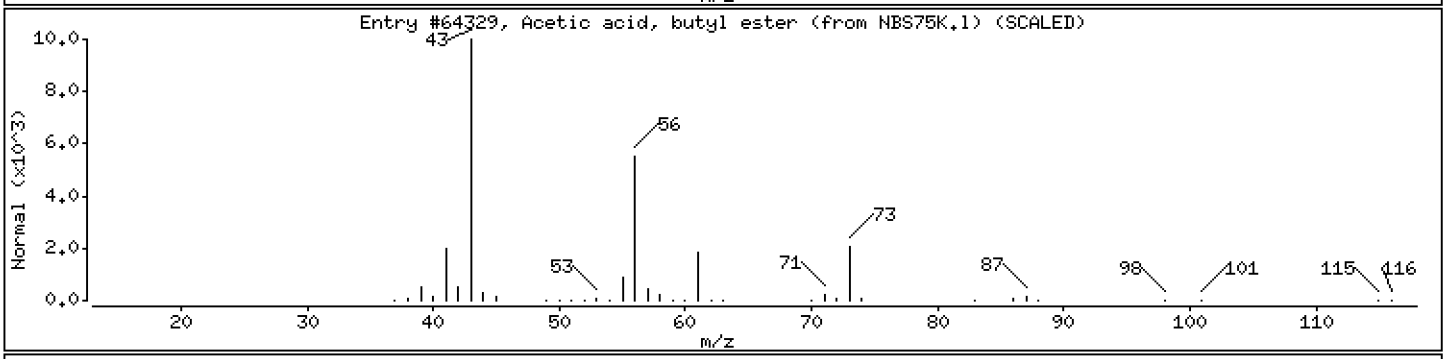
Sample Info: 1801;;1;2;4;;;

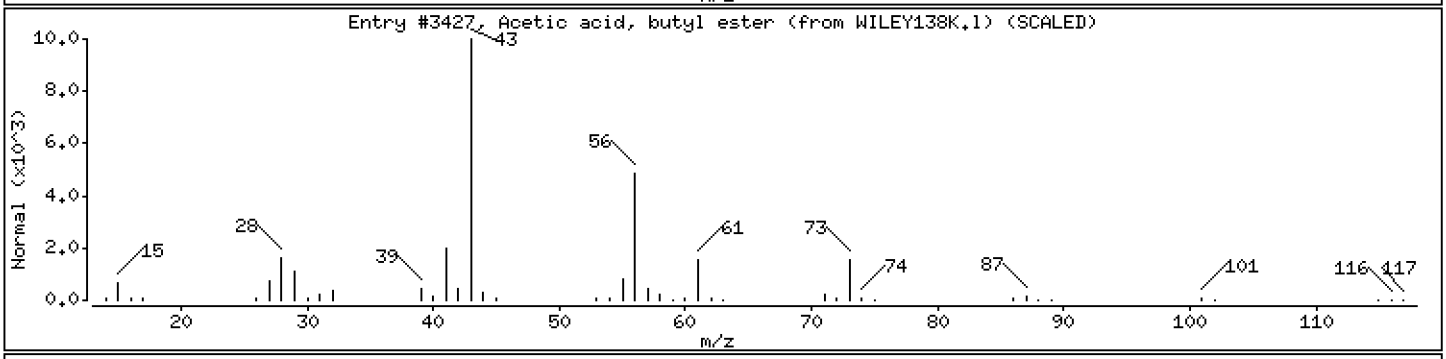
Purge Volume: 5.0 Operator: CJG

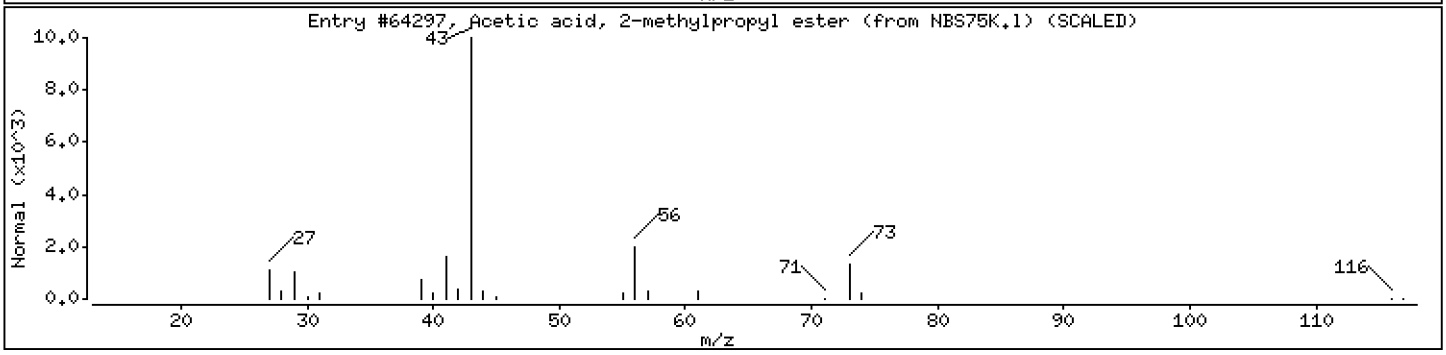
Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, butyl ester	123-86-4	NBS75K.l	64329	90	C6H12O2	116
Acetic acid, butyl ester	123-86-4	WILEY138K.l	3427	83	C6H12O2	116
Acetic acid, 2-methylpropyl ester	110-19-0	NBS75K.l	64297	40	C6H12O2	116









Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102579.D Page 127

Date : 26-OCT-2016 08:14

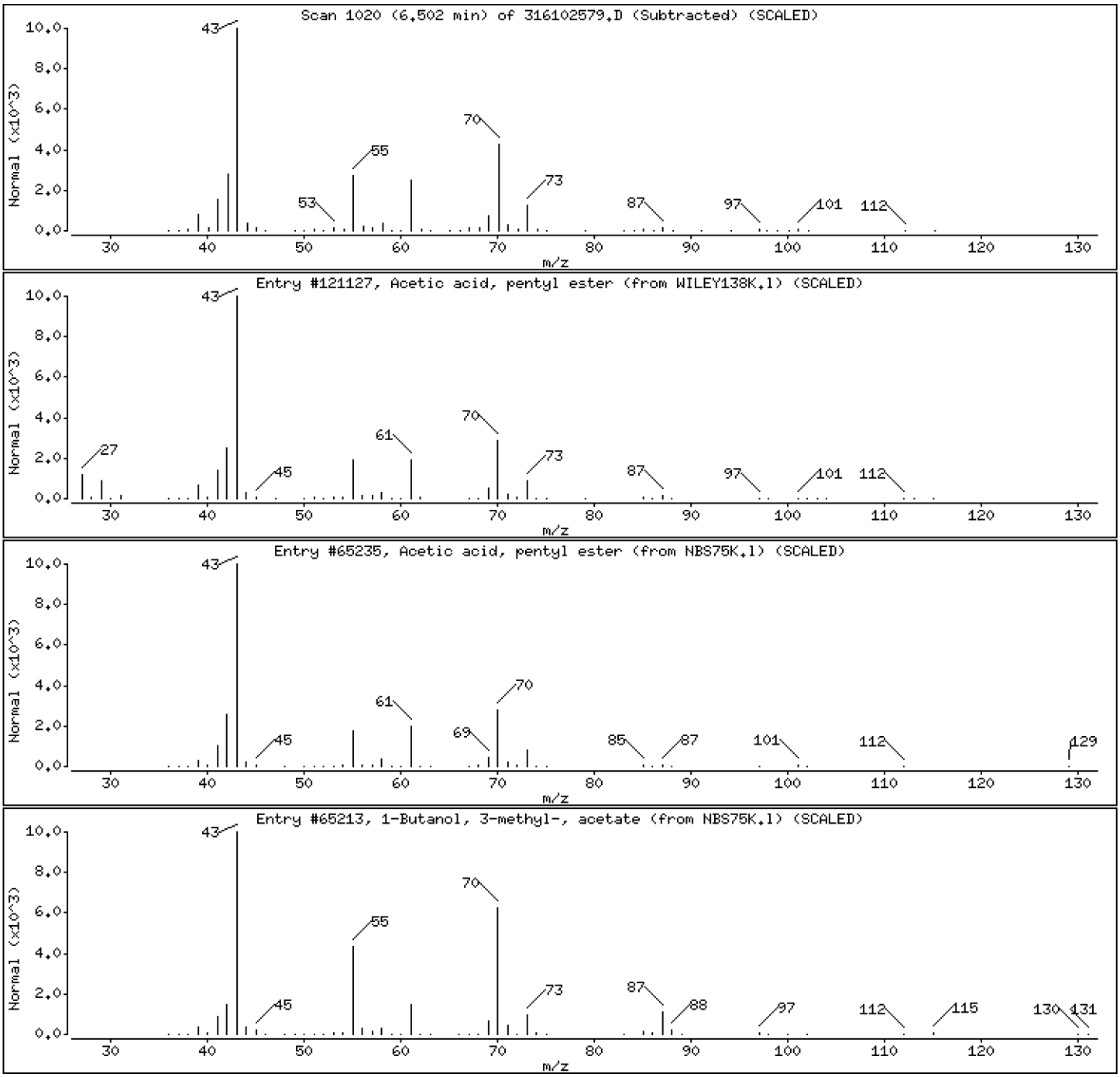
Client ID: Instrument: ms03.i

Sample Info: 1801;;1;2;4;;;

Purge Volume: 5.0 Operator: CJG

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, pentyl ester	628-63-7	WILEY138K.l	121127	90	C7H1402	130
Acetic acid, pentyl ester	628-63-7	NBS75K.l	65235	83	C7H1402	130
1-Butanol, 3-methyl-, acetate	123-92-2	NBS75K.l	65213	42	C7H1402	130

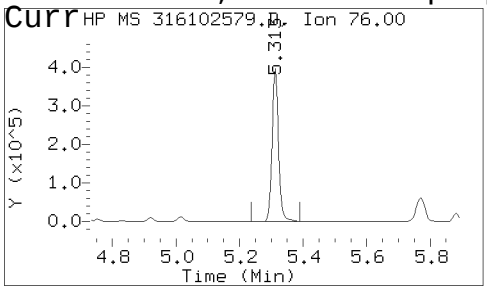


MANUAL INTEGRATION REPORT

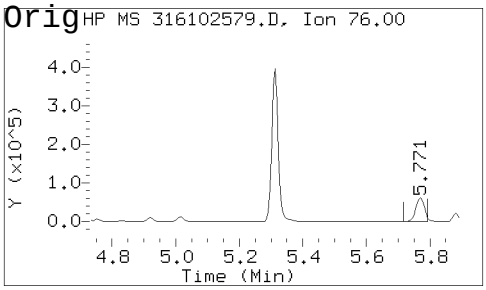
Report Date: 10/26/2016 10:59
Lab Sample ID: 1801 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161025A.b/316102579.D
RawFile:/Chem2/ms03.i/03_2016/3161025A.b/RawData/316102579.D
Injection Date: 26-OCT-2016 08:14 Operator: CJG

1,3-Dichloropropane

Curr



Orig



Curr. Area: 560029
Orig. Area: 116132

Curr. ON-COL: 46.0649
Orig. ON-COL: 9.55238

UNASSIGNED PEAK REPORT

Report Date: 10/26/2016 10:59
Lab Sample ID: 1801 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161025A.b/316102579.D
RawFile:/Chem2/ms03.i/03_2016/3161025A.b/RawData/316102579.D
Injection Date: 26-OCT-2016 08:14 Operator: CJG

QC Raw Data

Instrument Tune Raw Data

Data File: 316102450.D Page 1
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

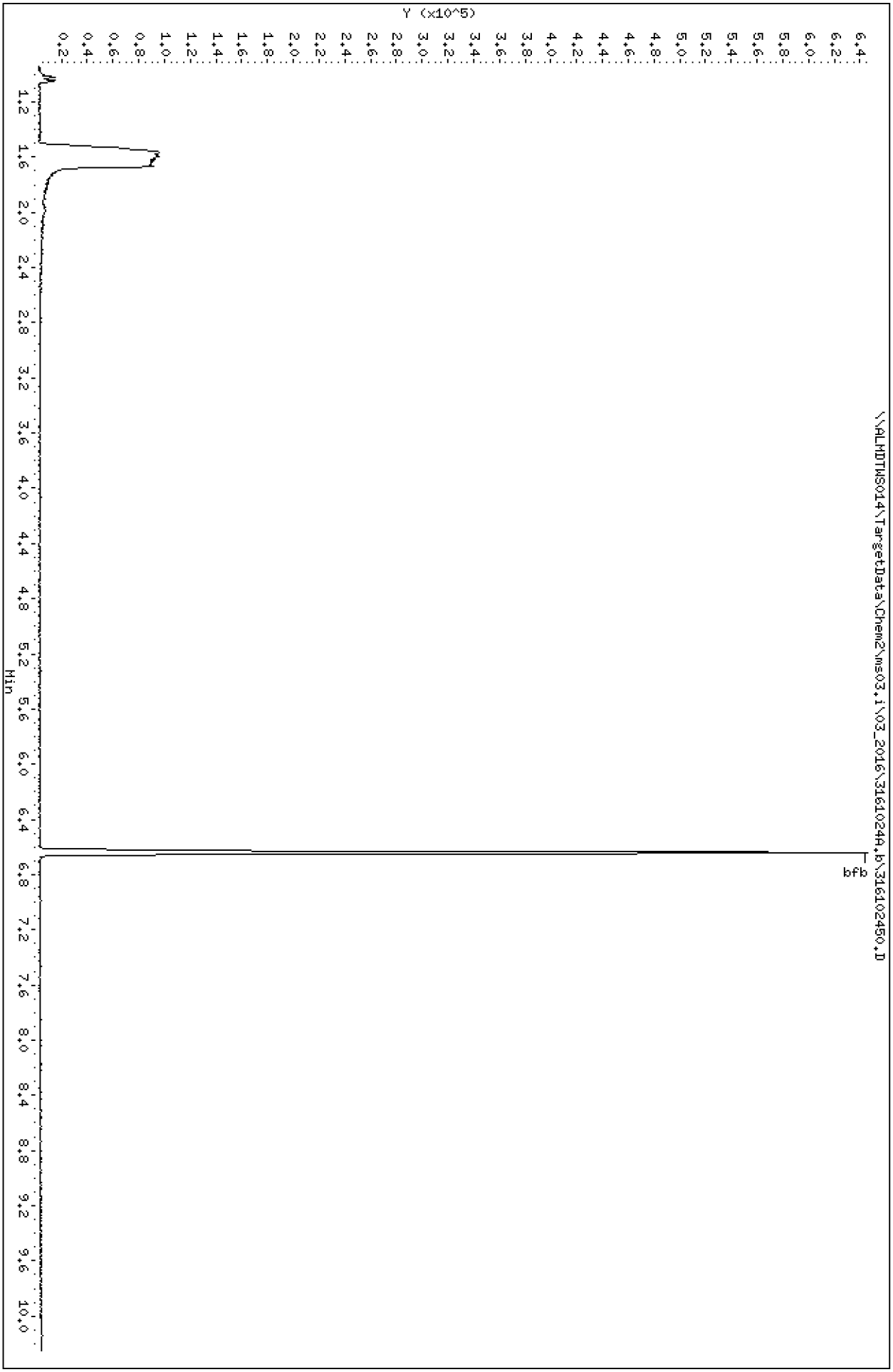
BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610245
Lab Smp Id: 1000
Inj Date : 24-OCT-2016 22:18
Operator : CJG Inst ID: ms03.i
Smp Info : 1000
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\bfb288.m
Meth Date : 07-Jun-2016 11:12 ms03.i Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
6.638	4.602	(0.000)	95	125712			0.00- 100.00	100.00
6.638	4.602	(0.000)	50	25808			15.00- 40.00	20.53
6.638	4.602	(0.000)	75	65928			30.00- 60.00	52.44
6.638	4.602	(0.000)	96	8695			5.00- 9.00	6.92
6.638	4.602	(0.000)	173	355			0.00- 2.00	0.44
6.638	4.602	(0.000)	174	80664			50.00- 0.00	64.17
6.638	4.602	(0.000)	175	5615			5.00- 9.00	6.96
6.638	4.602	(0.000)	176	77840			95.00- 101.00	96.50
6.638	4.602	(0.000)	177	4649			5.00- 9.00	5.97


Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102450.D
Date : 24-OCT-2016 22:18
Client ID:
Instrument: ms03.i
Sample Info: 1000
Operator: CJC
Volume Injected (uL): 1.0
Column diameter: 0.53
Column phase: DB624
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102450.D
bfb
Y (x10^5)
Min

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102450.D Page 3

Date : 24-OCT-2016 22:18

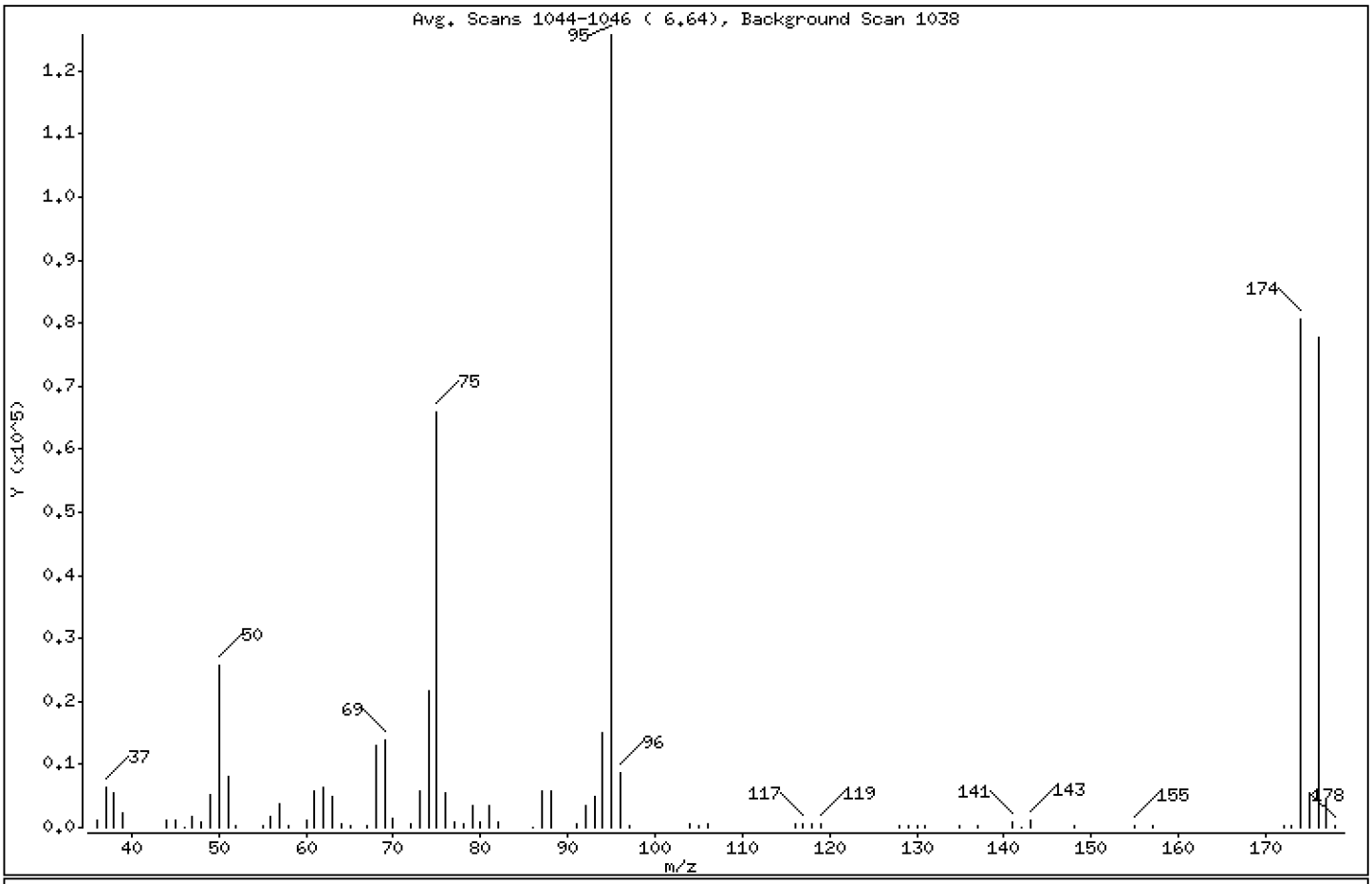
Client ID: Instrument: ms03.i

Sample Info: 1000

Volume Injected (uL): 1.0 Operator: CJG

Column phase: DB624 Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.53
75	30.00 - 60.00% of mass 95	52.44
96	5.00 - 9.00% of mass 95	6.92
173	Less than 2.00% of mass 174	0.28 (0.44)
174	Greater than 50.00% of mass 95	64.17
175	5.00 - 9.00% of mass 174	4.47 (6.96)
176	95.00 - 101.00% of mass 174	61.92 (96.50)
177	5.00 - 9.00% of mass 176	3.70 (5.97)

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102450.D Page 4

Date : 24-OCT-2016 22:18

Client ID: Instrument: ms03.i

Sample Info: 1000

Volume Injected (uL): 1.0 Operator: CJG

Column phase: DB624 Column diameter: 0.53

Data File: 316102450.D
Spectrum: Avg. Scans 1044-1046 (6.64), Background Scan 1038
Location of Maximum: 95.00
Number of points: 74

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1167	62.00	6416	86.00	50	130.00	335
37.00	6309	63.00	4775	87.00	5684	131.00	169
38.00	5389	64.00	511	88.00	5766	135.00	246
39.00	2381	65.00	333	91.00	497	137.00	199
44.00	1128	67.00	342	92.00	3326	141.00	1006
45.00	1137	68.00	12954	93.00	5054	142.00	51
46.00	54	69.00	13840	94.00	15069	143.00	1143
47.00	1735	70.00	1370	95.00	125712	148.00	236
48.00	917	72.00	664	96.00	8695	155.00	318
49.00	5080	73.00	5769	97.00	248	157.00	224
50.00	25808	74.00	21632	104.00	652	172.00	370
51.00	8044	75.00	65928	105.00	193	173.00	355
52.00	391	76.00	5564	106.00	498	174.00	80664
55.00	311	77.00	744	116.00	464	175.00	5615
56.00	1659	78.00	447	117.00	607	176.00	77840
57.00	3714	79.00	3444	118.00	532	177.00	4649
58.00	157	80.00	949	119.00	515	178.00	235
60.00	1186	81.00	3556	128.00	414		
61.00	5921	82.00	742	129.00	197		

Data File: 316102550.D Page 1
Report Date: 26-Oct-2016 10:32

ALS Environmental Services

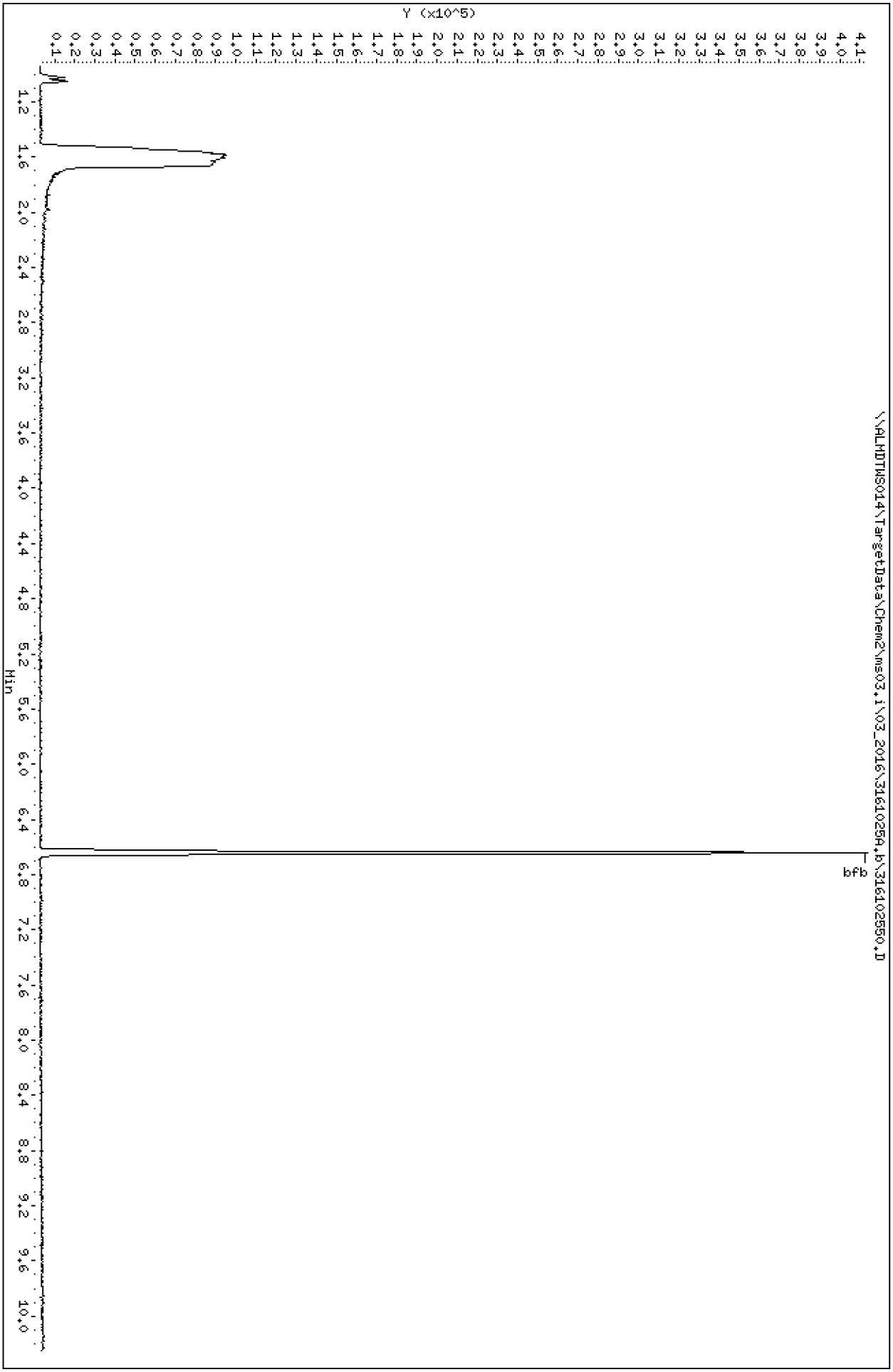
BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\31610255
Lab Smp Id: 1000
Inj Date : 25-OCT-2016 20:46
Operator : CJG Inst ID: ms03.i
Smp Info : 1000
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\bfb288.m
Meth Date : 07-Jun-2016 11:12 ms03.i Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: ALMDTW7060

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
6.638	4.602	(0.000)	95	79240			0.00- 100.00	100.00
6.638	4.602	(0.000)	50	17704			15.00- 40.00	22.34
6.638	4.602	(0.000)	75	44152			30.00- 60.00	55.72
6.638	4.602	(0.000)	96	5569			5.00- 9.00	7.03
6.638	4.602	(0.000)	173	232			0.00- 2.00	0.47
6.638	4.602	(0.000)	174	48904			50.00- 0.00	61.72
6.638	4.602	(0.000)	175	3424			5.00- 9.00	7.00
6.638	4.602	(0.000)	176	47672			95.00- 101.00	97.48
6.638	4.602	(0.000)	177	3157			5.00- 9.00	6.62


Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3161025S0.D
Date : 25-OCT-2016 20:46
Client ID:
Instrument: ms03.i
Sample Info: 1000
Operator: CJC
Volume Injected (uL): 1.0
Column diameter: 0.53
Column phase: DB624
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3161025S0.D
bfb
Y (x10^5)
Min
Page 2

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102550.D Page 3

Date : 25-OCT-2016 20:46

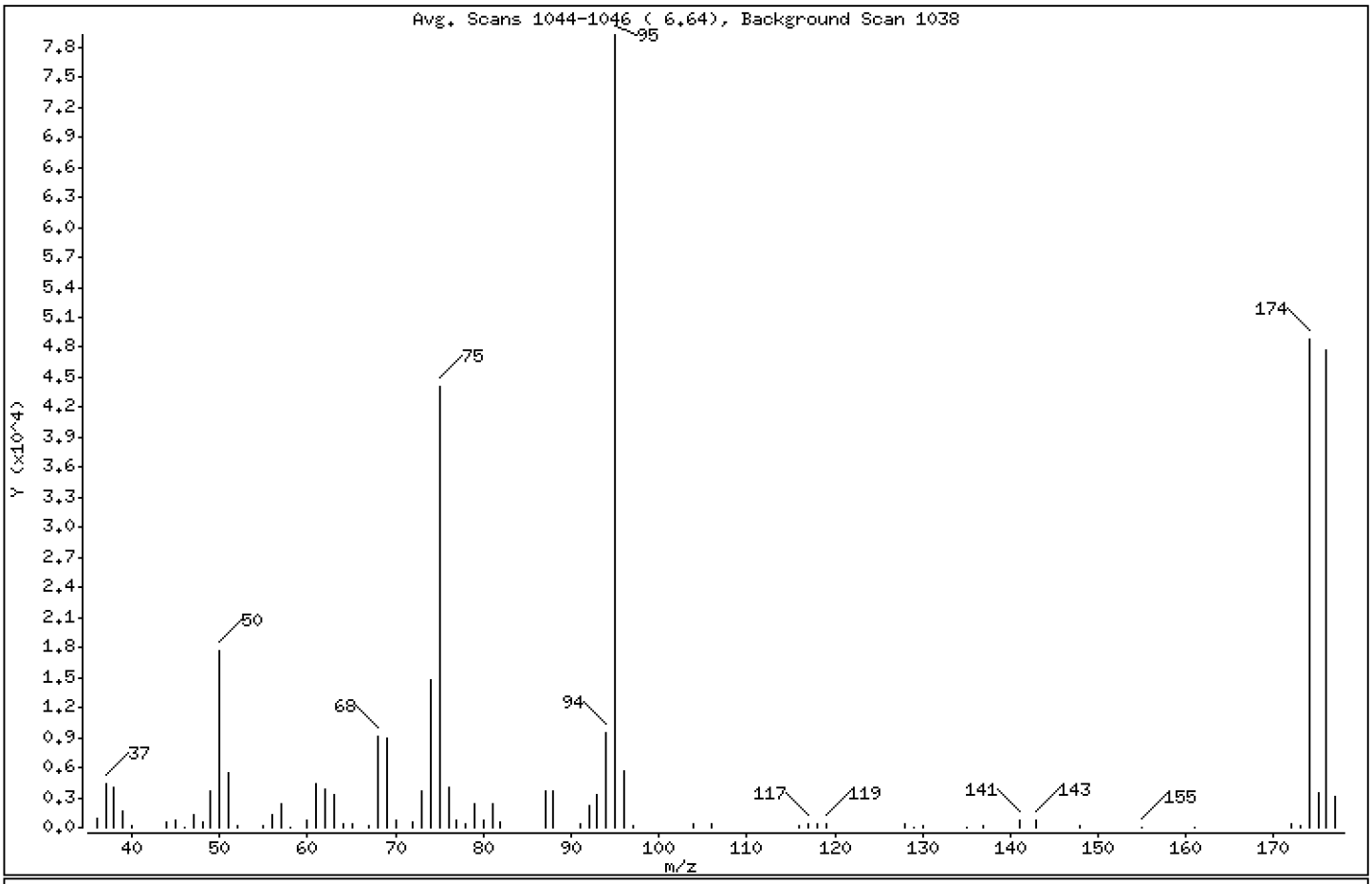
Client ID: Instrument: ms03.i

Sample Info: 1000

Volume Injected (uL): 1.0 Operator: CJG

Column phase: DB624 Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	22.34
75	30.00 - 60.00% of mass 95	55.72
96	5.00 - 9.00% of mass 95	7.03
173	Less than 2.00% of mass 174	0.29 (0.47)
174	Greater than 50.00% of mass 95	61.72
175	5.00 - 9.00% of mass 174	4.32 (7.00)
176	95.00 - 101.00% of mass 174	60.16 (97.48)
177	5.00 - 9.00% of mass 176	3.98 (6.62)

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102550.D Page 4

Date : 25-OCT-2016 20:46

Client ID: Instrument: ms03.i

Sample Info: 1000

Volume Injected (uL): 1.0 Operator: CJG

Column phase: DB624 Column diameter: 0.53

Data File: 316102550.D
Spectrum: Avg. Scans 1044-1046 (6.64), Background Scan 1038
Location of Maximum: 95.00
Number of points: 70

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	892	60.00	706	80.00	738	128.00	284
37.00	4312	61.00	4453	81.00	2435	129.00	61
38.00	3982	62.00	3822	82.00	544	130.00	241
39.00	1652	63.00	3286	87.00	3714	135.00	68
40.00	188	64.00	455	88.00	3555	137.00	107
44.00	625	65.00	387	91.00	280	141.00	817
45.00	725	67.00	146	92.00	2265	143.00	814
46.00	57	68.00	9125	93.00	3277	148.00	186
47.00	1251	69.00	8991	94.00	9557	155.00	58
48.00	541	70.00	754	95.00	79240	161.00	53
49.00	3661	72.00	541	96.00	5569	172.00	317
50.00	17704	73.00	3654	97.00	230	173.00	232
51.00	5426	74.00	14740	104.00	400	174.00	48904
52.00	242	75.00	44152	106.00	311	175.00	3424
55.00	254	76.00	3992	116.00	218	176.00	47672
56.00	1331	77.00	652	117.00	439	177.00	3157
57.00	2448	78.00	379	118.00	275		
58.00	54	79.00	2368	119.00	395		

Blank Raw Data

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
2429301(MB)

Lab Name: ALS Global **Contract:**

Lab Code: VOA **Case No.:** **SAS No.:** **SDG No.:** PQF-048

Matrix (soil/water): WATER **Lab Sample ID:** 2429301

Sample wt/vol: 5.00 (g/mL) ML **Lab File ID:** 316102554.D

Level (low/med): **Date Received:** 10/25/16

% Moisture: not dec. 100.0 **Date Analyzed:** 10/25/16

GC Column: RTXVRX **ID:** 0.25 (mm) **Dilution Factor:** 1.0

Soil Extract Volume: (uL) **Soil Aliquot Volume:** (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
67-64-1	Acetone	3.8	U
71-43-2	Benzene	0.75	U
108-86-1	Bromobenzene	0.75	U
74-97-5	Bromochloromethane	0.75	U
75-27-4	Bromodichloromethane	0.75	U
75-25-2	Bromoform	0.75	U
74-83-9	Bromomethane	0.75	U
78-93-3	2-Butanone	3.8	U
75-65-0	tert.- Butyl Alcohol	12.5	U
98-06-6	tert-Butylbenzene	0.75	U
104-51-8	n-Butylbenzene	0.75	U
135-98-8	sec-Butylbenzene	0.75	U
56-23-5	Carbon Tetrachloride	0.75	U
108-90-7	Chlorobenzene	0.75	U
124-48-1	Chlorodibromomethane	0.75	U
75-00-3	Chloroethane	0.75	U
67-66-3	Chloroform	0.75	U
74-87-3	Chloromethane	0.75	U
95-49-8	o-Chlorotoluene	0.75	U
106-43-4	p-Chlorotoluene	0.75	U
96-12-8	1,2-Dibromo-3-Chloropropane	2.5	U
106-93-4	1,2-Dibromoethane	0.75	U
95-50-1	1,2-Dichlorobenzene	0.75	U
541-73-1	1,3-Dichlorobenzene	0.75	U
106-46-7	1,4-Dichlorobenzene	0.75	U
75-71-8	Dichlorodifluoromethane	0.75	U
75-34-3	1,1-Dichloroethane	0.75	U
107-06-2	1,2-Dichloroethane	0.75	U
75-35-4	1,1-Dichloroethene	0.75	U
156-59-2	cis-1,2-Dichloroethene	0.75	U
156-60-5	trans-1,2-Dichloroethene	0.75	U
594-20-7	2,2-Dichloropropane	0.75	U
142-28-9	1,3-Dichloropropane	0.75	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
2429301(MB)

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Matrix (soil/water): WATER Lab Sample ID: 2429301

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 316102554.D

Level (low/med): Date Received: 10/25/16

% Moisture: not dec. 100.0 Date Analyzed: 10/25/16

GC Column: RTXVRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
78-87-5	1,2-Dichloropropane	0.75	U
563-58-6	1,1-Dichloropropene	0.75	U
10061-01-5	cis-1,3-Dichloropropene	0.75	U
10061-02-6	trans-1,3-Dichloropropene	0.75	U
100-41-4	Ethylbenzene	0.75	U
87-68-3	Hexachlorobutadiene	0.75	U
591-78-6	2-Hexanone	3.8	U
98-82-8	Isopropylbenzene	0.75	U
99-87-6	p-Isopropyltoluene	0.75	U
1634-04-4	Methyl t-Butyl Ether	0.75	U
108-10-1	4-Methyl-2-Pentanone(MIBK)	3.8	U
75-09-2	Methylene Chloride	0.75	U
91-20-3	Naphthalene	0.75	U
103-65-1	n-Propylbenzene	0.75	U
100-42-5	Styrene	0.75	U
630-20-6	1,1,1,2-Tetrachloroethane	0.75	U
79-34-5	1,1,2,2-Tetrachloroethane	0.75	U
127-18-4	Tetrachloroethene	0.75	U
108-88-3	Toluene	0.75	U
1330-20-7	Total Xylenes	2.3	U
87-61-6	1,2,3-Trichlorobenzene	0.75	U
120-82-1	1,2,4-Trichlorobenzene	0.75	U
71-55-6	1,1,1-Trichloroethane	0.75	U
79-00-5	1,1,2-Trichloroethane	0.75	U
79-01-6	Trichloroethene	0.75	U
75-69-4	Trichlorofluoromethane	0.75	U
96-18-4	1,2,3-Trichloropropane	2.5	U
95-63-6	1,2,4-Trimethylbenzene	0.75	U
108-67-8	1,3,5-Trimethylbenzene	0.75	U
75-01-4	Vinyl Chloride	0.75	U
95-47-6	o-Xylene	0.75	U
108383/106423	mp-Xylene	1.5	U

Data File: 316102554.D Page 1
Report Date: 26-Oct-2016 10:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\31610255
Lab Smp Id: 2429301 Client Smp ID: MB for HBN 174258 [
Inj Date : 25-OCT-2016 23:06
Operator : CJG Inst ID: ms03.i
Smp Info : 2429301;;1;3;;MB;;
Misc Info : ZZ VOMS 41258 D8260W
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b0
Meth Date : 26-Oct-2016 10:26 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 316102554.D Page 2
Report Date: 26-Oct-2016 10:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	Compound Not Detected.						
	23 tert.- Butyl Alcohol	59	Compound Not Detected.						
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.337	3.337	(0.881)	160214	24.8416	24.8416	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	3.637	3.637	(0.960)	242270	31.5796	31.5796	
	54 Isobutyl alcohol	43	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	3.790	3.790	(1.000)	978119	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	Compound Not Detected.						
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	64 1,4-Dioxane	88	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	4.723	4.723	(0.820)	700149	28.0793	28.0793	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	48	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						

Data File: 316102554.D Page 3
Report Date: 26-Oct-2016 10:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	403549	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	6.649	6.649	(0.884)	134776	28.5144	28.5144	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.522	7.522	(1.000)	228369	30.0000		
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

Data File: 316102554.D Page 4
Report Date: 26-Oct-2016 10:32

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i
Lab File ID: 316102554.D
Lab Smp Id: 2429301
Analysis Type: VOA
Quant Type: ISTD
Operator: CJG
Calibration Date: 25-OCT-2016
Calibration Time: 21:59
Client Smp ID: MB for HBN 1742
Level: LOW
Sample Type: WATER
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b
Misc Info: ZZ VOMS 41258 D8260W

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	978119	-3.46
83 Chlorobenzene-d5	432864	216432	865728	403549	-6.77
108 1,4-Dichlorobenze	273837	136919	547674	228369	-16.60

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	-0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	-0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102554.D Page 5
Report Date: 26-Oct-2016 10:32

ALS Environmental Services

RECOVERY REPORT

Client Name: Client SDG: 3161025A.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 2429301 Client Smp ID: MB for HBN 174258 [
Level: LOW Operator: CJG
Data Type: MS DATA SampleType: BLANK
SpikeList File: WATERQC2006.spk Quant Type: ISTD
Sublist File: DODall.sub
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b
Misc Info: ZZ VOMS 41258 D8260W

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 41 Dibromofluorometha	30.0000	24.8416	82.81	80-119
$ 51 1,2-Dichloroethane	30.0000	31.5796	105.27	81-118
$ 68 Toluene-d8	30.0000	28.0793	93.60	89-112
$ 92 4-Bromofluorobenze	30.0000	28.5144	95.05	85-114

Data File: 316102554.D Page 6
Report Date: 26-Oct-2016 10:32

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2429301
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41258 D8260W

Client SDG: 3161025A.b
Client Smp ID: MB for HBN 174258 [
Sample Point:
Date Received: 25-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: CJG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
1868-53-7	Dibromofluoromethane	24.8416	
17060-07-0	1,2-Dichloroethane-d4	31.5796	
2037-26-5	Toluene-d8	28.0793	
460-00-4	4-Bromofluorobenzene	28.5144	

Data File: 316102554.D Page 7
Report Date: 26-Oct-2016 10:32

ALS Environmental Services

TENTATIVELY IDENTIFIED COMPOUNDS

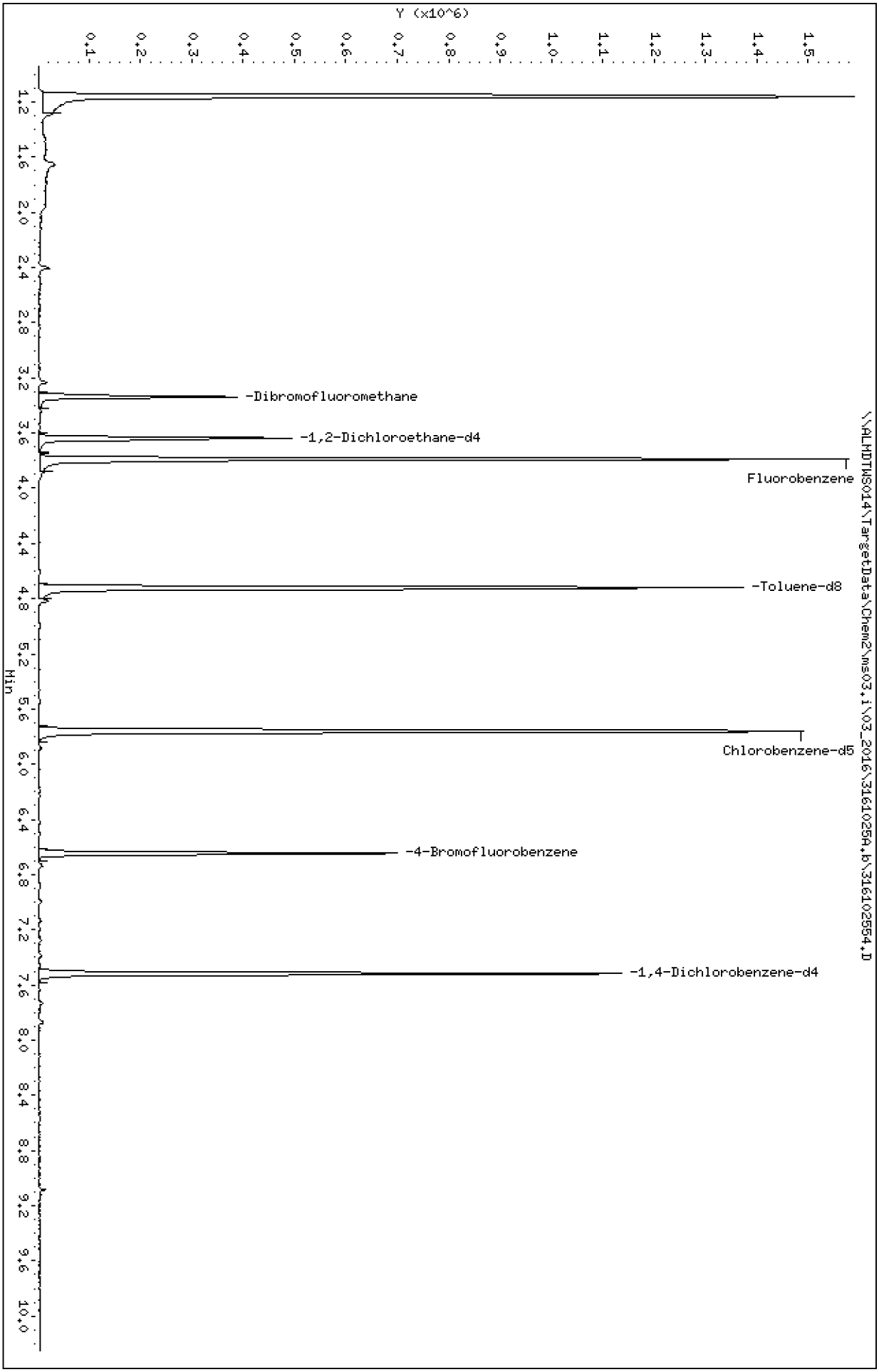
Client Name:
Lab Smp Id: 2429301
Operator : CJG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 25-OCT-2016 23:06

Client SDG: 3161025A.b
Client Smp ID: MB for HBN 174258 [
Sample Date:
Sample Point:
Date Received:25-OCT-2016 00:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q


Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3161025S4.D
Date : 25-OCT-2016 23:06
Client ID: MB for HBN 174258 [
Sample Info: 242930;;1;3;;MB;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
Page 8
Y (x10^6)
Min
-Dibromofluoromethane
-1,2-Dichloroethane-d4
Fluorobenzene
-Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4-Dichlorobenzene-d4
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3161025S4.D

MANUAL INTEGRATION REPORT

Report Date: 10/26/2016 10:32
Lab Sample ID: 2429301 Client ID: MB for HBN 174258 [
DataFile:/Chem2/ms03.i/03_2016/3161025A.b/316102554.D
RawFile:/Chem2/ms03.i/03_2016/3161025A.b/RawData/316102554.D
Injection Date: 25-OCT-2016 23:06 Operator: CJG
There were no manual integrations performed on this sample!

UNASSIGNED PEAK REPORT

Report Date: 10/26/2016 10:32
Lab Sample ID: 2429301 Client ID: MB for HBN 174258 [
DataFile:/Chem2/ms03.i/03_2016/3161025A.b/316102554.D
RawFile:/Chem2/ms03.i/03_2016/3161025A.b/RawData/316102554.D
Injection Date: 25-OCT-2016 23:06 Operator: CJG
The following compounds were Unassigned:

Chloromethane
Methylene Chloride
Heptane
1,2-Dichloroethane
1,2-Dichloropropane
Chloroacetonitrile
1,3-Dichloropropane
Bromomethane
Chloroform
Methacrylonitrile
Trichloroethene
1,4-Dioxane
2-Nitropropane

MS/MSD Raw Data

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FTMM-64-GW-81...MS

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Matrix (soil/water): WATER Lab Sample ID: 2429373

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 316102577.D

Level (low/med): Date Received: 10/21/16

% Moisture: not dec. 100.0 Date Analyzed: 10/26/16

GC Column: RTXVRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
67-64-1	Acetone	107	
71-43-2	Benzene	20.6	
108-86-1	Bromobenzene	19.5	
74-97-5	Bromochloromethane	19.8	
75-27-4	Bromodichloromethane	20.5	
75-25-2	Bromoform	16.1	
74-83-9	Bromomethane	18.2	
78-93-3	2-Butanone	105	
75-65-0	tert.- Butyl Alcohol	106	
98-06-6	tert-Butylbenzene	21.1	
104-51-8	n-Butylbenzene	20.1	
135-98-8	sec-Butylbenzene	22.3	
56-23-5	Carbon Tetrachloride	20.9	
108-90-7	Chlorobenzene	18.4	
124-48-1	Chlorodibromomethane	18.0	
75-00-3	Chloroethane	20.5	
67-66-3	Chloroform	21.2	
74-87-3	Chloromethane	19.6	
95-49-8	o-Chlorotoluene	21.3	
106-43-4	p-Chlorotoluene	21.1	
96-12-8	1,2-Dibromo-3-Chloropropane	19.1	
106-93-4	1,2-Dibromoethane	18.4	
95-50-1	1,2-Dichlorobenzene	21.0	
541-73-1	1,3-Dichlorobenzene	21.0	
106-46-7	1,4-Dichlorobenzene	21.3	
75-71-8	Dichlorodifluoromethane	16.0	
75-34-3	1,1-Dichloroethane	21.1	
107-06-2	1,2-Dichloroethane	20.7	
75-35-4	1,1-Dichloroethene	21.7	
156-59-2	cis-1,2-Dichloroethene	21.1	
156-60-5	trans-1,2-Dichloroethene	21.7	
594-20-7	2,2-Dichloropropane	17.1	
142-28-9	1,3-Dichloropropane	18.9	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FTMM-64-GW-81...MS

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Matrix (soil/water): WATER Lab Sample ID: 2429373

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 316102577.D

Level (low/med): Date Received: 10/21/16

% Moisture: not dec. 100.0 Date Analyzed: 10/26/16

GC Column: RTXVRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
78-87-5	1,2-Dichloropropane	21.1	
563-58-6	1,1-Dichloropropene	22.3	
10061-01-5	cis-1,3-Dichloropropene	18.0	
10061-02-6	trans-1,3-Dichloropropene	19.6	
100-41-4	Ethylbenzene	19.2	
87-68-3	Hexachlorobutadiene	20.5	
591-78-6	2-Hexanone	107	
98-82-8	Isopropylbenzene	21.3	
99-87-6	p-Isopropyltoluene	21.7	
1634-04-4	Methyl t-Butyl Ether	19.6	
108-10-1	4-Methyl-2-Pentanone(MIBK)	108	
75-09-2	Methylene Chloride	20.9	
91-20-3	Naphthalene	14.1	
103-65-1	n-Propylbenzene	21.8	
100-42-5	Styrene	21.1	
630-20-6	1,1,1,2-Tetrachloroethane	20.0	
79-34-5	1,1,2,2-Tetrachloroethane	20.1	
127-18-4	Tetrachloroethene	22.5	
108-88-3	Toluene	20.3	
1330-20-7	Total Xylenes	58.8	
87-61-6	1,2,3-Trichlorobenzene	17.3	
120-82-1	1,2,4-Trichlorobenzene	17.3	
71-55-6	1,1,1-Trichloroethane	21.1	
79-00-5	1,1,2-Trichloroethane	19.2	
79-01-6	Trichloroethene	20.3	
75-69-4	Trichlorofluoromethane	20.0	
96-18-4	1,2,3-Trichloropropane	19.7	
95-63-6	1,2,4-Trimethylbenzene	22.0	
108-67-8	1,3,5-Trimethylbenzene	22.6	
75-01-4	Vinyl Chloride	19.3	
95-47-6	o-Xylene	19.6	
108383/106423	mp-Xylene	39.3	

Data File: 316102577.D Page 1
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\31610257
Lab Smp Id: 2429373 Client Smp ID: 2184163001MS
Inj Date : 26-OCT-2016 07:30
Operator : CJG Inst ID: ms03.i
Smp Info : 2429373;;1;3;;MS;1;
Misc Info : ZZ VOMS 41258 D8260W
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b0
Meth Date : 26-Oct-2016 10:26 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 27 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.258	(0.332)	168785	16.0019	16.0019	
2 Chloromethane	50	1.389	1.389	(0.367)	191585	19.5524	19.5524	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	202438	19.2578	19.2578	
4 Bromomethane	94	1.640	1.646	(0.433)	69523	18.2209	18.2209	
5 Chloroethane	64	1.711	1.722	(0.452)	132864	20.4686	20.4686	
6 Pentane	41	1.787	1.793	(0.472)	189598	33.8769	33.8769(R)	
7 Trichlorofluoromethane	101	1.793	1.798	(0.473)	236980	20.0334	20.0334	
8 Dichlorofluoromethane	67	1.826	1.826	(0.482)	352738	22.3464	22.3464	
9 Ethyl Ether	74	1.967	1.967	(0.519)	103926	19.7960	19.7960	
10 1,1-Dichloroethene	61	2.087	2.088	(0.551)	236953	21.7112	21.7112	
12 Carbon Disulfide	76	2.115	2.120	(0.558)	364391	19.5722	19.5722	
11 Freon 113	101	2.098	2.104	(0.554)	143051	23.2405	23.2405	
13 Iodomethane	127	2.175	2.180	(0.574)	25562	18.0213	18.0213	
14 Acrolein	56	2.273	2.273	(0.600)	243120	237.249	237.249	
16 3-Chloro-1-propene	41	2.344	2.344	(0.619)	234231	25.7613	25.7613	
15 Isopropyl Alcohol	45	2.333	2.333	(0.616)	33287	142.597	142.597(R)	
17 Methylene Chloride	84	2.404	2.404	(0.634)	152606	20.8859	20.8859	
18 Acetone	58	2.426	2.426	(0.640)	60272	106.509	106.509	
19 Methyl acetate	74	2.480	2.480	(0.655)	19398	17.2749	17.2749(Q)	
20 trans-1,2-Dichloroethene	61	2.486	2.486	(0.656)	230564	21.7353	21.7353	
21 Hexane	57	2.513	2.519	(0.663)	349561	23.3977	23.3977	

Data File: 316102577.D Page 2
Report Date: 26-Oct-2016 10:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
22 Methyl t-Butyl Ether	73	2.529	2.529	(0.667)	358964	19.6087	19.6087	
23 tert.- Butyl Alcohol	59	2.568	2.568	(0.678)	41944	106.462	106.462	
24 Acetonitrile	41	2.682	2.682	(0.708)	79935	134.479	134.479	
25 Diisopropyl ether	45	2.720	2.720	(0.718)	532313	22.2160	22.2160	
26 Chloroprene	53	2.797	2.797	(0.738)	255543	24.4308	24.4308	
27 1,1-Dichloroethane	63	2.813	2.813	(0.742)	291816	21.1298	21.1298	
28 Acrylonitrile	53	2.840	2.840	(0.750)	272466	108.971	108.971	
30 n-Propanol	41	2.911	2.911	(0.768)	114055	267.177	267.177(Q)	
29 Ethyl tert-butyl ether	59	2.911	2.911	(0.768)	421107	20.7049	20.7049	
31 Vinyl acetate	86	2.928	2.928	(0.773)	20445	13.5279	13.5279(Q)	
32 cis-1,2-Dichloroethene	61	3.097	3.097	(0.817)	224140	21.1421	21.1421	
33 2,2-Dichloropropane	77	3.157	3.157	(0.833)	141820	17.0648	17.0648	
M 100 1,2-Dichloroethene, Total	61				454704	42.8774	42.8774	
34 Bromochloromethane	128	3.206	3.206	(0.846)	58311	19.7705	19.7705(Q)	
35 Cyclohexane	84	3.212	3.212	(0.847)	268366	23.5580	23.5580	
36 Chloroform	83	3.233	3.233	(0.853)	274455	21.1965	21.1965	
37 Ethyl acetate	43	3.282	3.277	(0.866)	111923	18.4457	18.4457	
38 Methyl acrylate	55	3.293	3.293	(0.869)	122739	20.8566	20.8566	
39 Carbon Tetrachloride	117	3.321	3.321	(0.876)	152195	20.9367	20.9367	
40 Tetrahydrofuran	42	3.332	3.326	(0.879)	210001	109.231	109.231	
$ 41 Dibromofluoromethane	113	3.337	3.337	(0.881)	148487	26.0573	26.0573	
42 1,1,1-Trichloroethane	97	3.359	3.359	(0.886)	203950	21.0504	21.0504	
43 2-Butanone	72	3.402	3.397	(0.898)	86177	105.157	105.157	
44 1,1-Dichloropropene	75	3.424	3.424	(0.904)	228511	22.3113	22.3113	
45 1-Chlorobutane	41	3.446	3.446	(0.909)	194608	26.2039	26.2039(R)	
46 Heptane	71	3.512	3.512	(0.927)	116446	24.9206	24.9206	
48 Propionitrile	54	3.577	3.577	(0.944)	106163	113.465	113.465	
47 Benzene	78	3.561	3.561	(0.940)	652846	20.6462	20.6462	
49 Methacrylonitrile	67	3.588	3.583	(0.947)	58838	20.4367	20.4367	
50 tert-amyl methyl Ether	73	3.599	3.599	(0.950)	326866	19.8890	19.8890	
$ 51 1,2-Dichloroethane-d4	65	3.637	3.637	(0.960)	220566	32.5392	32.5392	
54 Isobutyl alcohol	43	3.632	3.626	(0.958)	47522	316.897	316.897(R)	
52 1,2-Dichloroethane	62	3.675	3.675	(0.970)	193718	20.6857	20.6857	
53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	30003	97.2719	97.2719	
* 55 Fluorobenzene	96	3.790	3.790	(1.000)	864232	30.0000		
56 Diisobutylene	57	3.790	3.795	(1.000)	349619	19.7213	19.7213	
57 Trichloroethene	95	3.883	3.883	(1.024)	152677	20.2839	20.2839	
58 Methyl cyclohexane	83	3.883	3.883	(0.674)	288394	22.4849	22.4849	
59 tert-Amyl Ethylether	59	3.986	3.986	(1.052)	298264	20.3742	20.3742	
60 Dibromomethane	93	4.139	4.139	(1.092)	76214	19.8381	19.8381	
61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	163773	21.0756	21.0756	
62 Bromodichloromethane	83	4.221	4.221	(1.114)	160488	20.5202	20.5202	
63 Methyl methacrylate	41	4.292	4.292	(1.132)	111351	20.7939	20.7939	
64 1,4-Dioxane	88	4.336	4.336	(1.144)	22851	886.274	886.274(QR)	
66 cis-1,3-Dichloropropene	75	4.603	4.603	(0.799)	187869	18.0184	18.0184	
67 Octane	85	4.608	4.608	(0.800)	61001	19.4782	19.4782	
$ 68 Toluene-d8	98	4.723	4.723	(0.820)	635163	26.6118	26.6118(R)	
69 Toluene	92	4.756	4.756	(0.826)	373532	20.2941	20.2941	
70 Chloroacetonitrile	48	4.827	4.827	(0.838)	16453	99.8124	99.8124	
71 2-Nitropropane	41	4.908	4.908	(0.852)	114139	88.5672	88.5672	
72 1,1-Dichloro-2-propanone	63	4.919	4.919	(0.854)	10879	88.4256	88.4256(Q)	
73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.985	(0.865)	686893	108.251	108.251	
75 trans-1,3-Dichloropropene	75	5.012	5.012	(0.870)	177226	19.5617	19.5617	
74 Tetrachloroethene	164	5.007	5.007	(0.869)	99093	22.4744	22.4744	

Data File: 316102577.D Page 3
Report Date: 26-Oct-2016 10:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
76	Ethyl methacrylate	69	5.094	5.094	(0.884)	168490	20.2925	20.2925	
77	1,1,2-Trichloroethane	83	5.121	5.121	(0.889)	102762	19.2054	19.2054	
78	Chlorodibromomethane	129	5.247	5.247	(0.911)	86465	17.9684	17.9684	
79	1,3-Dichloropropane	76	5.312	5.312	(0.922)	218740	18.9428	18.9428(M)	H
80	1,2-Dibromoethane	107	5.421	5.421	(0.941)	97818	18.3793	18.3793	
81	2-Hexanone	43	5.541	5.541	(0.962)	431213	107.289	107.289	
82	1-Chlorohexane	91	5.738	5.738	(0.996)	192781	20.5367	20.5367	
* 83	Chlorobenzene-d5	82	5.760	5.760	(1.000)	386375	30.0000		
85	Ethylbenzene	106	5.781	5.781	(1.004)	202855	19.2327	19.2327	
84	Chlorobenzene	112	5.771	5.771	(1.002)	354621	18.3643	18.3643	
86	1,1,1,2-Tetrachloroethane	131	5.814	5.814	(1.009)	101217	19.9626	19.9626	
87	mp-Xylene	106	5.880	5.880	(1.021)	483319	39.2694	39.2694	
M 120	1,3-Dichloropropene, Total	75				365095	37.5801	37.5801	
88	o-Xylene	106	6.196	6.196	(1.076)	213693	19.5556	19.5556	
89	Styrene	104	6.234	6.234	(0.829)	352040	21.1389	21.1389	
90	Bromoform	173	6.262	6.262	(0.833)	33624	16.1102	16.1102	
91	Isopropylbenzene	105	6.425	6.425	(0.855)	580911	21.3476	21.3476	
$ 92	4-Bromofluorobenzene	174	6.649	6.649	(0.885)	127640	27.4644	27.4644	
M 121	TOTAL XYLENES	106				697012	58.8250	58.8250	
94	n-Propylbenzene	120	6.736	6.736	(0.896)	150087	21.8116	21.8116	
93	Bromobenzene	156	6.731	6.731	(0.895)	111519	19.5488	19.5488	
95	1,1,2,2-Tetrachloroethane	83	6.791	6.791	(0.903)	132365	20.0581	20.0581	
97	1,3,5-Trimethylbenzene	105	6.884	6.884	(0.916)	451081	22.6390	22.6390	
96	o-Chlorotoluene	91	6.867	6.867	(0.914)	456107	21.3461	21.3461	
98	1,2,3-Trichloropropane	110	6.905	6.905	(0.919)	38721	19.7410	19.7410	
99	trans-1,4-Dichloro-2-butene	53	6.933	6.933	(0.922)	29752	18.8802	18.8802(Q)	
101	p-Chlorotoluene	91	6.993	6.993	(0.930)	409766	21.0502	21.0502	
102	tert-Butylbenzene	134	7.140	7.135	(0.950)	95070	21.0707	21.0707	
103	Pentachloroethane	117	7.162	7.162	(0.953)	77804	20.7136	20.7136	
104	1,2,4-Trimethylbenzene	105	7.195	7.195	(0.957)	428661	22.0032	22.0032	
105	sec-Butylbenzene	105	7.277	7.277	(0.968)	555088	22.2798	22.2798	
106	p-Isopropyltoluene	134	7.391	7.391	(0.983)	103000	21.6982	21.6982	
107	1,3-Dichlorobenzene	146	7.462	7.462	(0.993)	196364	21.0439	21.0439	
* 108	1,4-Dichlorobenzene-d4	152	7.517	7.522	(1.000)	224546	30.0000		
109	1,4-Dichlorobenzene	146	7.533	7.533	(1.002)	199816	21.3213	21.3213	
111	n-Butylbenzene	134	7.735	7.735	(1.029)	83952	20.0835	20.0835(Q)	
110	Benzyl Chloride	126	7.729	7.735	(1.028)	13438	11.3740	11.3740(Q)	
112	Hexachloroethane	117	7.849	7.849	(1.044)	53627	18.4879	18.4879	
113	1,2-Dichlorobenzene	146	7.877	7.877	(1.048)	176453	21.0316	21.0316	
114	1,2-Dibromo-3-chloropropane	75	8.537	8.542	(1.136)	12969	19.0748	19.0748	
115	Nitrobenzene	77	9.028	9.028	(1.201)	2878	265.679	265.679	
116	Hexachlorobutadiene	225	9.088	9.088	(1.209)	32100	20.5389	20.5389	
117	1,2,4-Trichlorobenzene	180	9.115	9.115	(1.213)	60768	17.2892	17.2892	
118	Naphthalene	128	9.394	9.394	(1.250)	88110	14.1055	14.1055	
119	1,2,3-Trichlorobenzene	180	9.546	9.546	(1.270)	40455	17.3495	17.3495	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 316102577.D Page 4
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i
Lab File ID: 316102577.D
Lab Smp Id: 2429373
Analysis Type: VOA
Quant Type: ISTD
Operator: CJG
Calibration Date: 25-OCT-2016
Calibration Time: 21:59
Client Smp ID: 2184163001MS
Level: LOW
Sample Type: WATER
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b
Misc Info: ZZ VOMS 41258 D8260W

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	864232	-14.70
83 Chlorobenzene-d5	432864	216432	865728	386375	-10.74
108 1,4-Dichlorobenze	273837	136919	547674	224546	-18.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	-0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	-0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102577.D Page 5
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

RECOVERY REPORT

Client Name: Client SDG: 3161025A.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 2429373 Client Smp ID: 2184163001MS
Level: LOW Operator: CJG
Data Type: MS DATA SampleType: MS
SpikeList File: DOD2014.spk Quant Type: ISTD
Sublist File: DODall.sub
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b
Misc Info: ZZ VOMS 41258 D8260W

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Dichlorodifluorome	20.0000	16.0019	80.01	32-152
2	Chloromethane	20.0000	19.5524	97.76	50-139
3	Vinyl Chloride	20.0000	19.2578	96.29	58-137
4	Bromomethane	20.0000	18.2209	91.10	53-141
5	Chloroethane	20.0000	20.4686	102.34	60-138
6	Pentane	20.0000	33.8769	169.38*	16-134
7	Trichlorofluoromet	20.0000	20.0334	100.17	65-141
8	Dichlorofluorometh	20.0000	22.3464	111.73	72-131
9	Ethyl Ether	20.0000	19.7960	98.98	71-131
10	1,1-Dichloroethene	20.0000	21.7112	108.56	71-131
11	Freon 113	20.0000	23.2405	116.20	70-136
12	Carbon Disulfide	20.0000	19.5722	97.86	64-133
13	Iodomethane	20.0000	18.0213	90.11	69-131
14	Acrolein	200.000	237.249	118.62	39-155
15	Isopropyl Alcohol	100.000	142.597	142.60*	56-142
16	3-Chloro-1-propene	20.0000	25.7613	128.81	59-135
17	Methylene Chloride	20.0000	20.8859	104.43	74-124
18	Acetone	100.000	106.509	106.51	39-160
19	Methyl acetate	20.0000	17.2749	86.37	56-136
20	trans-1,2-Dichloro	20.0000	21.7353	108.68	75-124
21	Hexane	20.0000	23.3977	116.99	48-143
22	Methyl t-Butyl Eth	20.0000	19.6087	98.04	71-124
23	tert.- Butyl Alcoh	100.000	106.462	106.46	68-129
24	Acetonitrile	100.000	134.479	134.48	50-142
25	Diisopropyl ether	20.0000	22.2160	111.08	67-128
26	Chloroprene	20.0000	24.4308	122.15	62-125
27	1,1-Dichloroethane	20.0000	21.1298	105.65	77-125
28	Acrylonitrile	100.000	108.971	108.97	63-135
29	Ethyl tert-butyl e	20.0000	20.7049	103.52	70-127
30	n-Propanol	200.000	267.177	133.59	19-342
31	Vinyl acetate	20.0000	13.5279	67.64	54-146
32	cis-1,2-Dichloroet	20.0000	21.1421	105.71	78-123
33	2,2-Dichloropropan	20.0000	17.0648	85.32	60-139
34	Bromochloromethane	20.0000	19.7705	98.85	78-123
35	Cyclohexane	20.0000	23.5580	117.79	71-130
36	Chloroform	20.0000	21.1965	105.98	79-124
37	Ethyl acetate	20.0000	18.4457	92.23	55-138
38	Methyl acrylate	20.0000	20.8566	104.28	70-130
39	Carbon Tetrachlori	20.0000	20.9367	104.68	72-136
40	Tetrahydrofuran	100.000	109.231	109.23	57-133

Data File: 316102577.D Page 6
Report Date: 26-Oct-2016 10:59

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
42	1,1,1-Trichloroeth	20.0000	21.0504	105.25	74-131
43	2-Butanone	100.000	105.157	105.16	56-143
44	1,1-Dichloropropen	20.0000	22.3113	111.56	79-125
45	1-Chlorobutane	20.0000	26.2039	131.02*	70-130
46	Heptane	20.0000	24.9206	124.60	49-140
47	Benzene	20.0000	20.6462	103.23	79-120
48	Propionitrile	100.000	113.465	113.47	64-136
49	Methacrylonitrile	20.0000	20.4367	102.18	63-133
50	tert-amyl methyl E	20.0000	19.8890	99.44	68-128
54	Isobutyl alcohol	200.000	316.897	158.45*	63-133
52	1,2-Dichloroethane	20.0000	20.6857	103.43	73-128
53	tert-Amyl Alcohol	100.000	97.2719	97.27	68-130
56	Diisobutylene	20.0000	19.7213	98.61	60-137
57	Trichloroethene	20.0000	20.2839	101.42	79-123
58	Methyl cyclohexane	20.0000	22.4849	112.42	72-132
59	tert-Amyl Ethyleth	20.0000	20.3742	101.87	70-130
60	Dibromomethane	20.0000	19.8381	99.19	79-123
61	1,2-Dichloropropan	20.0000	21.0756	105.38	78-122
62	Bromodichlorometha	20.0000	20.5202	102.60	79-125
63	Methyl methacrylat	20.0000	20.7939	103.97	67-128
64	1,4-Dioxane	500.000	886.274	177.25*	59-139
65	2-Chloroethylvinyl	20.0000	0.0718720	0.36*	51-139
66	cis-1,3-Dichloropr	20.0000	18.0184	90.09	75-124
67	Octane	20.0000	19.4782	97.39	58-127
69	Toluene	20.0000	20.2941	101.47	80-121
70	Chloroacetonitrile	100.000	99.8124	99.81	80-120
71	2-Nitropropane	100.000	88.5672	88.57	49-136
73	4-Methyl-2-Pentano	100.000	108.251	108.25	67-130
72	1,1-Dichloro-2-pro	100.000	88.4256	88.43	70-130
74	Tetrachloroethene	20.0000	22.4744	112.37	74-129
75	trans-1,3-Dichloro	20.0000	19.5617	97.81	73-127
76	Ethyl methacrylate	20.0000	20.2925	101.46	72-126
77	1,1,2-Trichloroeth	20.0000	19.2054	96.03	80-119
78	Chlorodibromometha	20.0000	17.9684	89.84	74-126
79	1,3-Dichloropropan	20.0000	18.9428	94.71	80-119
80	1,2-Dibromoethane	20.0000	18.3793	91.90	77-121
81	2-Hexanone	100.000	107.289	107.29	57-139
82	1-Chlorohexane	20.0000	20.5367	102.68	76-124
84	Chlorobenzene	20.0000	18.3643	91.82	82-118
85	Ethylbenzene	20.0000	19.2327	96.16	79-121
88	o-Xylene	20.0000	19.5556	97.78	78-122
86	1,1,1,2-Tetrachlor	20.0000	19.9626	99.81	78-124
87	mp-Xylene	40.0000	39.2694	98.17	80-121
89	Styrene	20.0000	21.1389	105.69	78-123
90	Bromoform	20.0000	16.1102	80.55	66-130
91	Isopropylbenzene	20.0000	21.3476	106.74	72-131
93	Bromobenzene	20.0000	19.5488	97.74	80-120
94	n-Propylbenzene	20.0000	21.8116	109.06	76-126
95	1,1,2,2-Tetrachlor	20.0000	20.0581	100.29	71-121
96	o-Chlorotoluene	20.0000	21.3461	106.73	79-122
97	1,3,5-Trimethylben	20.0000	22.6390	113.20	75-124
98	1,2,3-Trichloropro	20.0000	19.7410	98.70	73-122
M 100	1,2-Dichloroethene	40.0000	42.8774	107.19	78-123
99	trans-1,4-Dichloro	20.0000	18.8802	94.40	43-140

Data File: 316102577.D Page 7
Report Date: 26-Oct-2016 10:59

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	101 p-Chlorotoluene	20.0000	21.0502	105.25	78-122
	102 tert-Butylbenzene	20.0000	21.0707	105.35	78-124
	103 Pentachloroethane	20.0000	20.7136	103.57	69-133
	104 1,2,4-Trimethylben	20.0000	22.0032	110.02	76-124
	105 sec-Butylbenzene	20.0000	22.2798	111.40	77-126
	106 p-Isopropyltoluene	20.0000	21.6982	108.49	77-127
	107 1,3-Dichlorobenzen	20.0000	21.0439	105.22	80-119
	109 1,4-Dichlorobenzen	20.0000	21.3213	106.61	79-118
	110 Benzyl Chloride	20.0000	11.3740	56.87	42-138
	111 n-Butylbenzene	20.0000	20.0835	100.42	75-128
	112 Hexachloroethane	20.0000	18.4879	92.44	72-134
	113 1,2-Dichlorobenzen	20.0000	21.0316	105.16	80-119
	114 1,2-Dibromo-3-chlo	20.0000	19.0748	95.37	62-128
	115 Nitrobenzene	200.000	265.679	132.84	23-139
	116 Hexachlorobutadien	20.0000	20.5389	102.69	66-134
	117 1,2,4-Trichloroben	20.0000	17.2892	86.45	69-130
	118 Naphthalene	20.0000	14.1055	70.53	61-128
M	120 1,3-Dichloropropen	40.0000	37.5801	93.95	75-124
	119 1,2,3-Trichloroben	20.0000	17.3495	86.75	69-129
M	121 TOTAL XYLENES	60.0000	58.8250	98.04	79-121

	SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$	41 Dibromofluorometha	30.0000	26.0573	86.86	80-119
$	51 1,2-Dichloroethane	30.0000	32.5392	108.46	81-118
$	68 Toluene-d8	30.0000	26.6118	88.71*	89-112
$	92 4-Bromofluorobenze	30.0000	27.4644	91.55	85-114

Data File: 316102577.D Page 8
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2429373
Sample Location:
Sample Date: 20-OCT-2016
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41258 D8260W

Client SDG: 3161025A.b
Client Smp ID: 2184163001MS
Sample Point:
Date Received: 21-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: CJG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	16.0019	
74-87-3	Chloromethane	19.5524	
75-01-4	Vinyl Chloride	19.2578	
74-83-9	Bromomethane	18.2209	
75-00-3	Chloroethane	20.4686	
109-66-0	Pentane	33.8769	
75-69-4	Trichlorofluoromethane	20.0334	
75-43-4	Dichlorofluoromethane	22.3464	
60-29-7	Ethyl Ether	19.7960	
75-35-4	1,1-Dichloroethene	21.7112	
75-15-0	Carbon Disulfide	19.5722	
76-13-1	Freon 113	23.2405	
74-88-4	Iodomethane	18.0213	
107-02-8	Acrolein	237.249	
107-05-1	3-Chloro-1-propene	25.7613	
67-63-0	Isopropyl Alcohol	142.597	
75-09-2	Methylene Chloride	20.8859	
67-64-1	Acetone	106.509	
79-20-9	Methyl acetate	17.2749	
156-60-5	trans-1,2-Dichloroethene	21.7353	
110-54-3	Hexane	23.3977	
1634-04-4	Methyl t-Butyl Ether	19.6087	
75-65-0	tert.- Butyl Alcohol	106.462	
75-05-8	Acetonitrile	134.479	
108-20-3	Diisopropyl ether	22.2160	
126-99-8	Chloroprene	24.4308	
75-34-3	1,1-Dichloroethane	21.1298	
107-13-1	Acrylonitrile	108.971	
71-23-8	n-Propanol	267.177	
637-92-3	Ethyl tert-butyl ether	20.7049	
108-05-4	Vinyl acetate	13.5279	
156-59-2	cis-1,2-Dichloroethene	21.1421	
594-20-7	2,2-Dichloropropane	17.0648	
540-59-0	1,2-Dichloroethene, Total	42.8774	
74-97-5	Bromochloromethane	19.7705	
110-82-7	Cyclohexane	23.5580	
67-66-3	Chloroform	21.1965	
141-78-6	Ethyl acetate	18.4457	
96-33-3	Methyl acrylate	20.8566	
56-23-5	Carbon Tetrachloride	20.9367	
109-99-9	Tetrahydrofuran	109.231	
71-55-6	1,1,1-Trichloroethane	21.0504	

Data File: 316102577.D Page 9
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2429373
Sample Location:
Sample Date: 20-OCT-2016
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41258 D8260W

Client SDG: 3161025A.b
Client Smp ID: 2184163001MS
Sample Point:
Date Received: 21-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: CJG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
78-93-3	2-Butanone	105.157	
563-58-6	1,1-Dichloropropene	22.3113	
109-69-3	1-Chlorobutane	26.2039	
142-82-5	Heptane	24.9206	
107-12-0	Propionitrile	113.465	
71-43-2	Benzene	20.6462	
126-98-7	Methacrylonitrile	20.4367	
994-05-8	tert-amyl methyl Ether	19.8890	
78-83-1	Isobutyl alcohol	316.897	
107-06-2	1,2-Dichloroethane	20.6857	
75-85-4	tert-Amyl Alcohol	97.2719	
107-39-1	Diisobutylene	19.7213	
79-01-6	Trichloroethene	20.2839	
108-87-2	Methyl cyclohexane	22.4849	
919-94-8	tert-Amyl Ethylether	20.3742	
74-95-3	Dibromomethane	19.8381	
78-87-5	1,2-Dichloropropane	21.0756	
75-27-4	Bromodichloromethane	20.5202	
80-62-6	Methyl methacrylate	20.7939	
123-91-1	1,4-Dioxane	886.274	
110-75-8	2-Chloroethylvinyl ether	0.0718720	J
10061-01-5	cis-1,3-Dichloropropene	18.0184	
111-65-9	Octane	19.4782	
108-88-3	Toluene	20.2941	
107-14-2	Chloroacetonitrile	99.8124	
79-46-9	2-Nitropropane	88.5672	
513-88-2	1,1-Dichloro-2-propanone	88.4256	
108-10-1	4-Methyl-2-Pentanone(MIBK)	108.251	
10061-02-6	trans-1,3-Dichloropropene	19.5617	
127-18-4	Tetrachloroethene	22.4744	
97-63-2	Ethyl methacrylate	20.2925	
79-00-5	1,1,2-Trichloroethane	19.2054	
124-48-1	Chlorodibromomethane	17.9684	
142-28-9	1,3-Dichloropropane	18.9428	
106-93-4	1,2-Dibromoethane	18.3793	
591-78-6	2-Hexanone	107.289	
544-10-5	1-Chlorohexane	20.5367	
100-41-4	Ethylbenzene	19.2327	
108-90-7	Chlorobenzene	18.3643	
630-20-6	1,1,1,2-Tetrachloroethane	19.9626	
108383/106423	m,p-Xylene	39.2694	
542-75-6	1,3-Dichloropropene, Total	37.5801	

Data File: 316102577.D Page 10
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2429373
Sample Location:
Sample Date: 20-OCT-2016
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41258 D8260W

Client SDG: 3161025A.b
Client Smp ID: 2184163001MS
Sample Point:
Date Received: 21-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: CJG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
95-47-6	o-Xylene	19.5556	
100-42-5	Styrene	21.1389	
75-25-2	Bromoform	16.1102	
98-82-8	Isopropylbenzene	21.3476	
1330-20-7	TOTAL XYLENES	58.8250	
103-65-1	n-Propylbenzene	21.8116	
108-86-1	Bromobenzene	19.5488	
79-34-5	1,1,2,2-Tetrachloroethane	20.0581	
108-67-8	1,3,5-Trimethylbenzene	22.6390	
95-49-8	o-Chlorotoluene	21.3461	
96-18-4	1,2,3-Trichloropropane	19.7410	
110-57-6	trans-1,4-Dichloro-2-butene	18.8802	
106-43-4	p-Chlorotoluene	21.0502	
98-06-6	tert-Butylbenzene	21.0707	
76-01-7	Pentachloroethane	20.7136	
95-63-6	1,2,4-Trimethylbenzene	22.0032	
135-98-8	sec-Butylbenzene	22.2798	
99-87-6	p-Isopropyltoluene	21.6982	
541-73-1	1,3-Dichlorobenzene	21.0439	
106-46-7	1,4-Dichlorobenzene	21.3213	
104-51-8	n-Butylbenzene	20.0835	
100-44-7	Benzyl Chloride	11.3740	
67-72-1	Hexachloroethane	18.4879	
95-50-1	1,2-Dichlorobenzene	21.0316	
96-12-8	1,2-Dibromo-3-chloropropane	19.0748	
98-95-3	Nitrobenzene	265.679	
87-68-3	Hexachlorobutadiene	20.5389	
120-82-1	1,2,4-Trichlorobenzene	17.2892	
91-20-3	Naphthalene	14.1055	
87-61-6	1,2,3-Trichlorobenzene	17.3495	
1868-53-7	Dibromofluoromethane	26.0573	
17060-07-0	1,2-Dichloroethane-d4	32.5392	
2037-26-5	Toluene-d8	26.6118	
460-00-4	4-Bromofluorobenzene	27.4644	

Data File: 316102577.D Page 11
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

TENTATIVELY IDENTIFIED COMPOUNDS

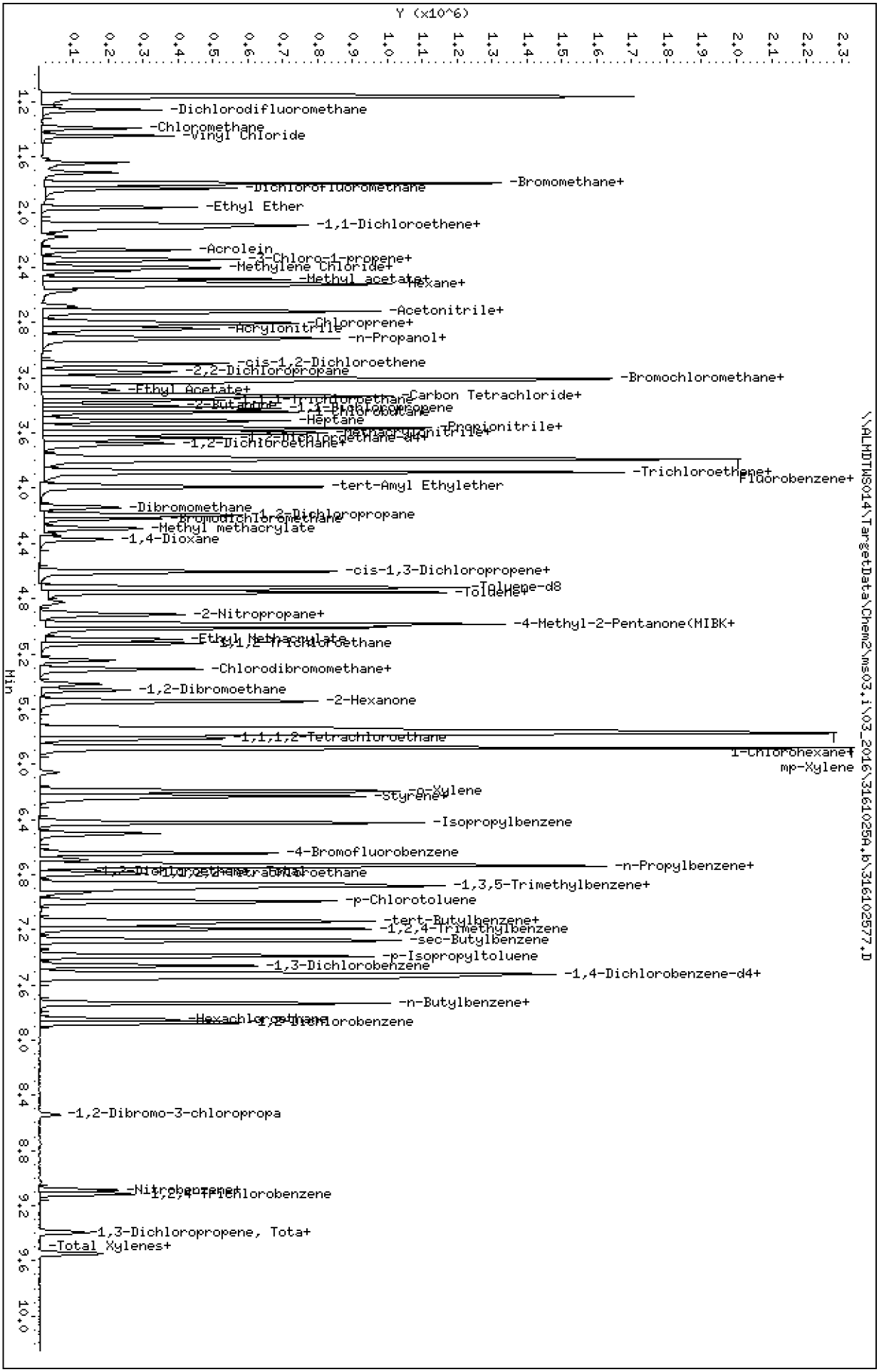
Client Name:
Lab Smp Id: 2429373
Operator : CJG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 26-OCT-2016 07:30

Client SDG: 3161025A.b
Client Smp ID: 2184163001MS
Sample Date: 20-OCT-2016
Sample Point:
Date Received:21-OCT-2016 00:00
Level: LOW

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	1.160	22.9530	_J__


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane+
-Dichlorofluoromethane
-Ethyl Ether
-1,1-Dichloroethene+
-Acrolein
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Acrylonitrile
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Carbon Tetrachloride+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Trichloroethene+
Fluorobenzene+
-tert-Amyl Ethylether
-Dibromomethane
-Methyl methacrylate
-1,4-Dioxane
-cis-1,3-Dichloropropene+
-Toluene
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK+
-Chlorodibromomethane+
-1,2-Dibromoethane
-2-Hexanone
-1,1,1,2-Tetrachloroethane
1-Chlorohexane+
mp-Xylene
-Styrene+
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-1,3-Dichloropropene, Tota+
-Total Xylenes+
Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3161025?7.D
Date : 26-OCT-2016 07:30
Client ID: 2184163001MS
Sample Info: 2429373;;1;3;;MS;1;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3161025?7.D
Page 12

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 13

Date : 26-OCT-2016 07:30

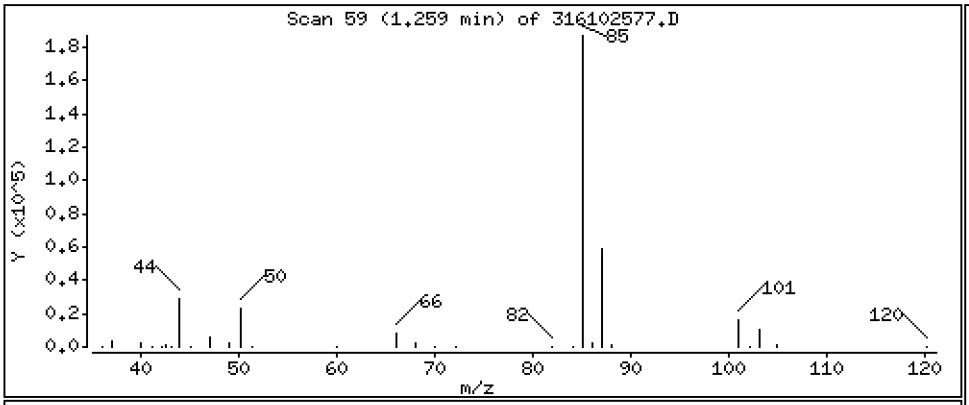
Client ID: 2184163001MS Instrument: ms03.i

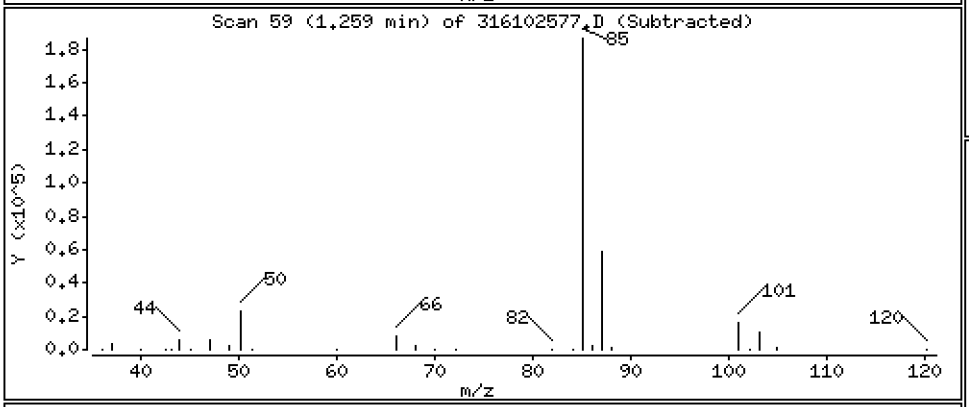
Sample Info: 2429373:1:3::MS:1:

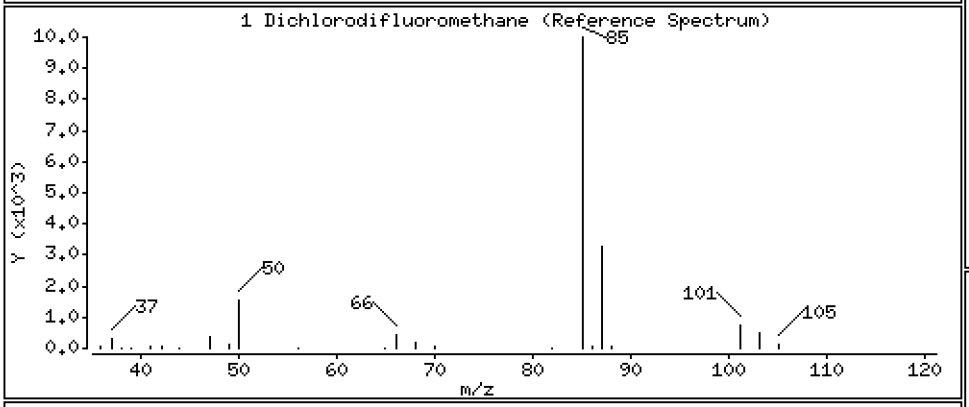
Purge Volume: 5.0 Operator: CJG

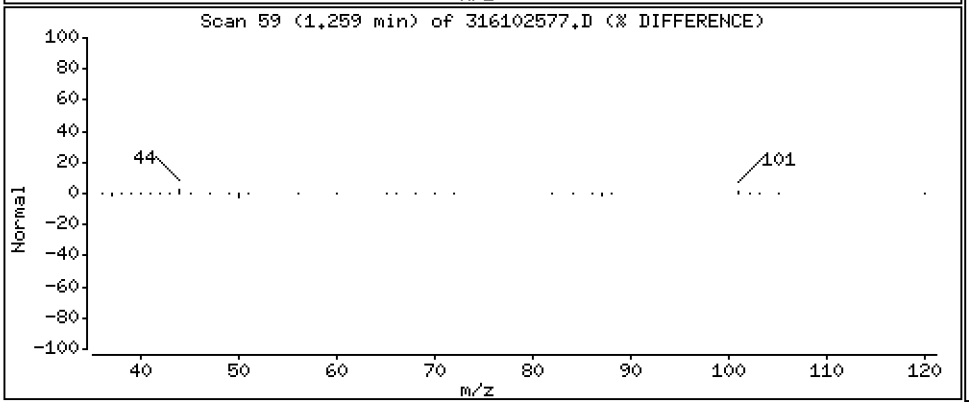
Column phase: DB-VRX Column diameter: 0.25

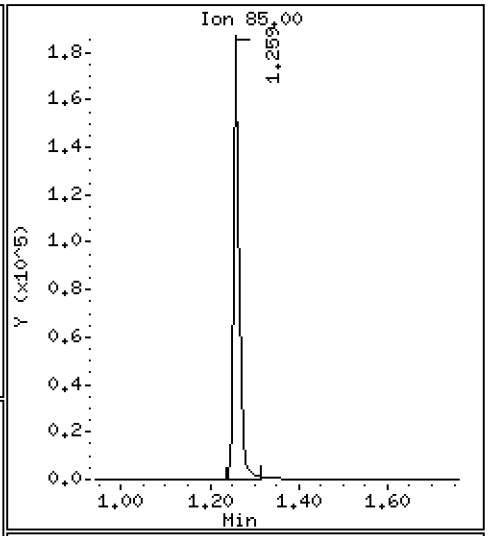
1 Dichlorodifluoromethane Concentration: 16.0019 ug/L

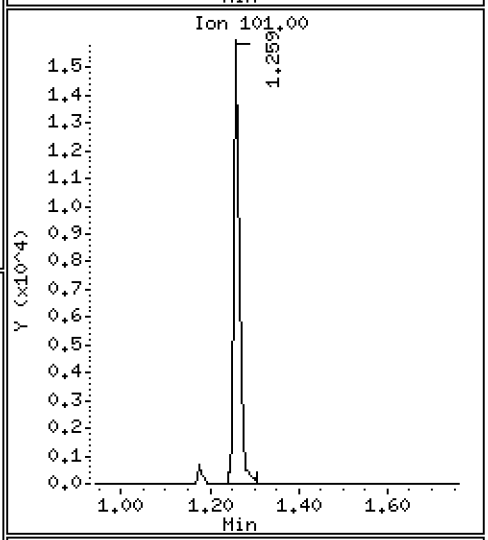


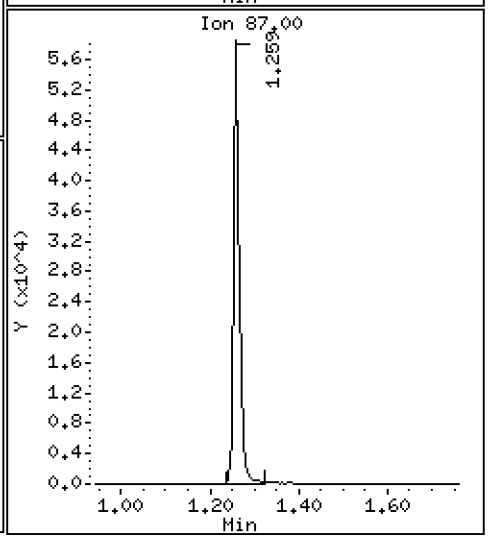












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 14

Date : 26-OCT-2016 07:30

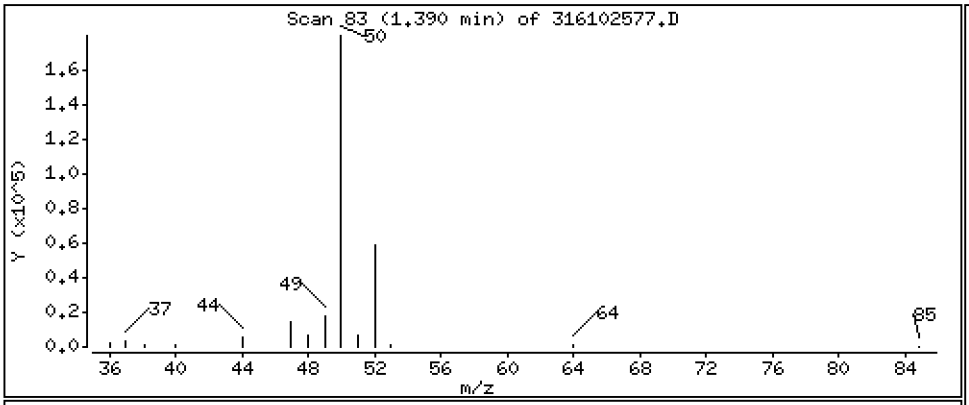
Client ID: 2184163001MS Instrument: ms03.i

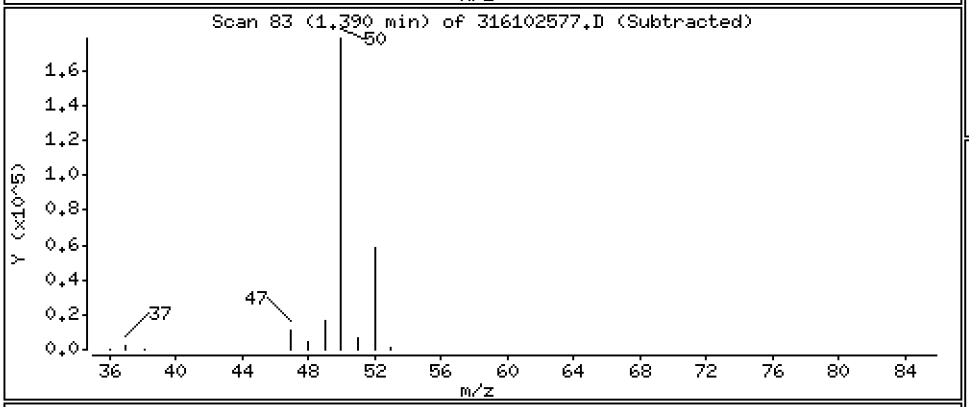
Sample Info: 2429373;;1;3;;MS;1;

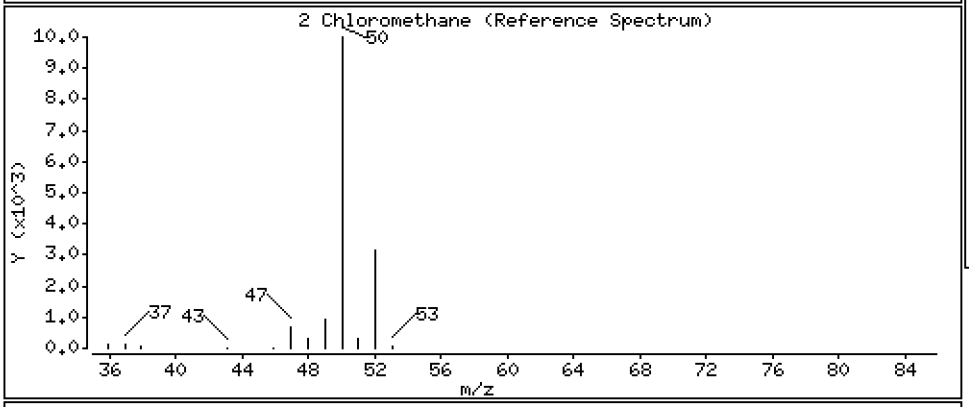
Purge Volume: 5.0 Operator: CJG

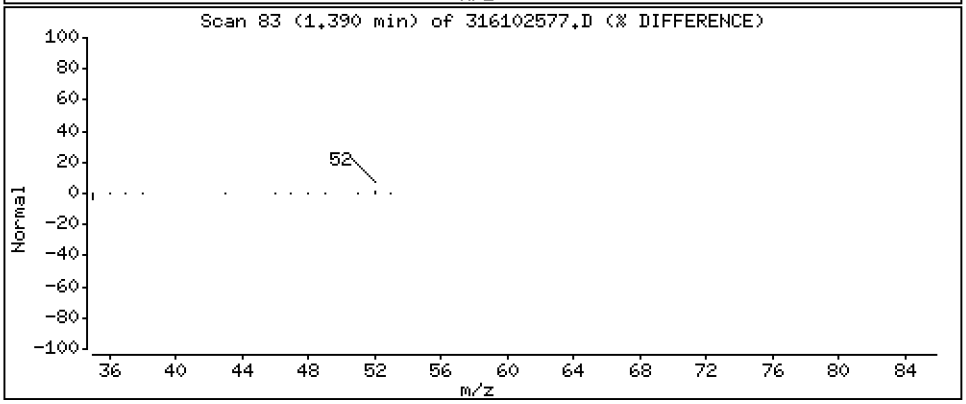
Column phase: DB-VRX Column diameter: 0.25

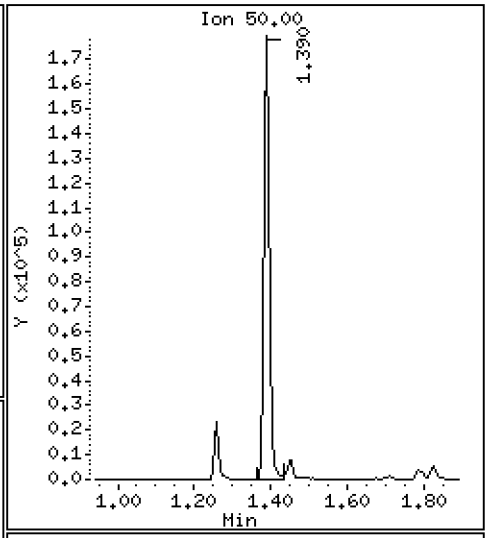
2 Chloromethane Concentration: 19.5524 ug/L

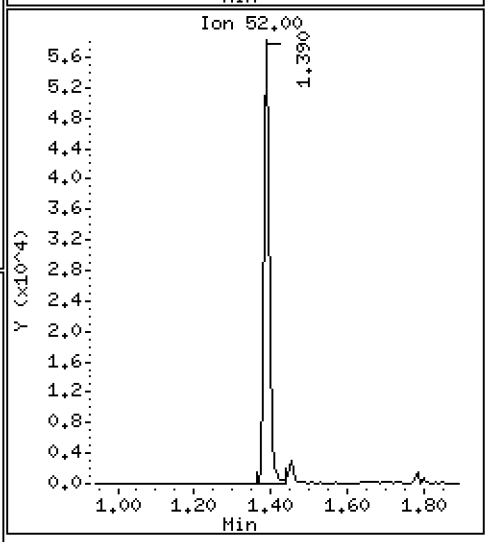












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 15

Date : 26-OCT-2016 07:30

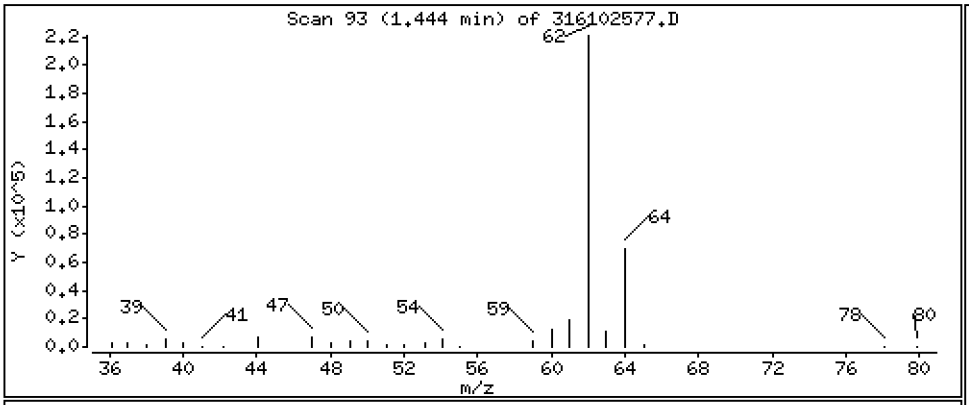
Client ID: 2184163001MS Instrument: ms03.i

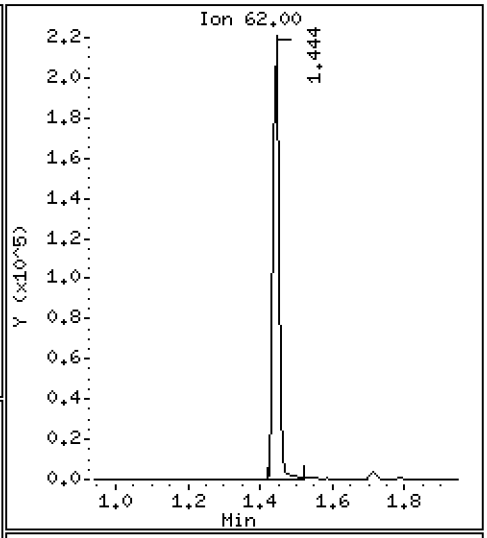
Sample Info: 2429373;;1;3;;MS;1;

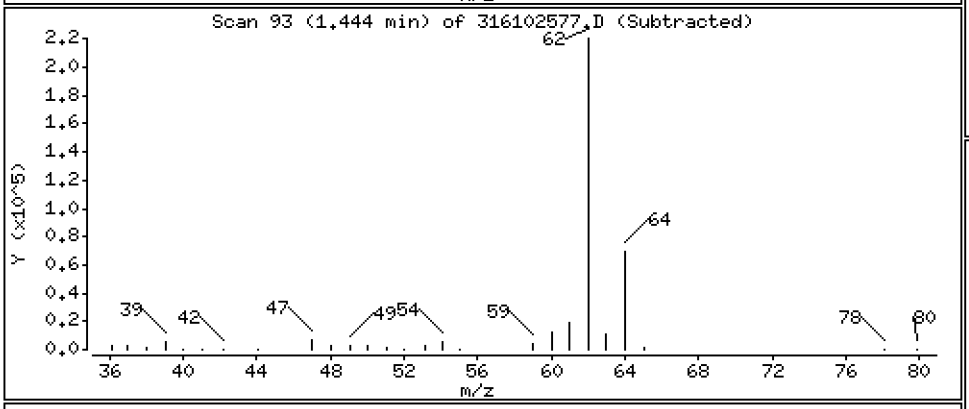
Purge Volume: 5.0 Operator: CJG

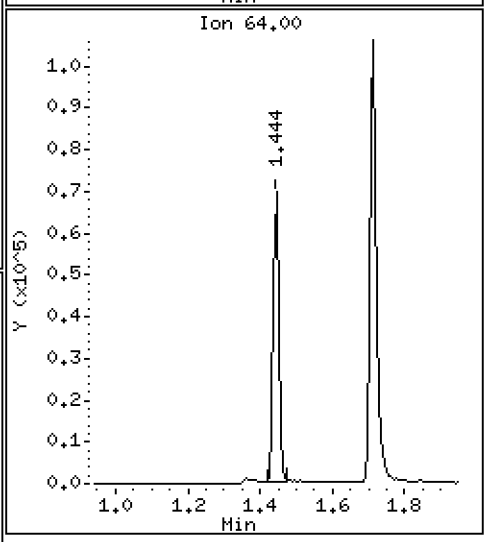
Column phase: DB-VRX Column diameter: 0.25

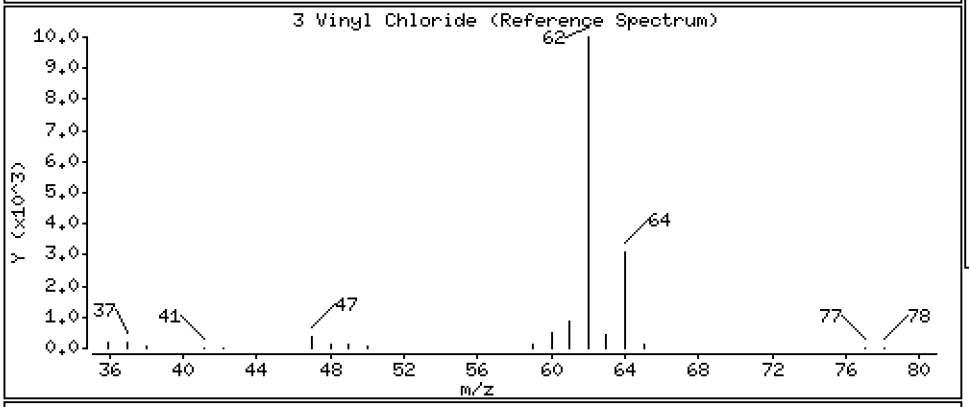
3 Vinyl Chloride Concentration: 19.2578 ug/L

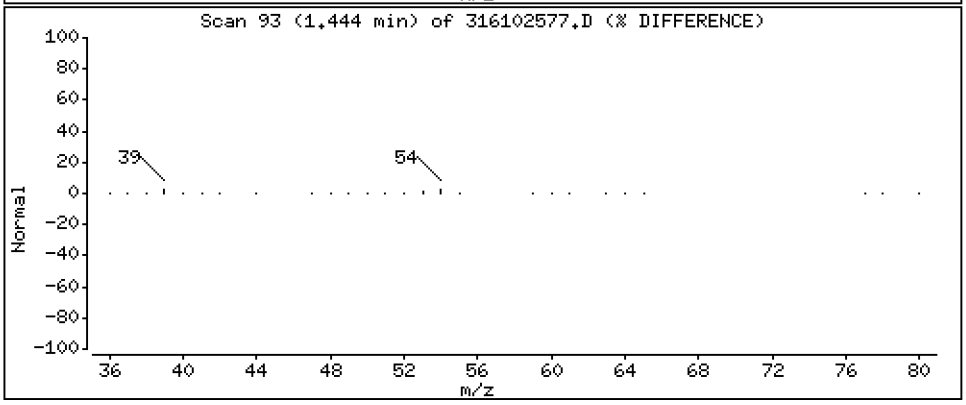












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 16

Date : 26-OCT-2016 07:30

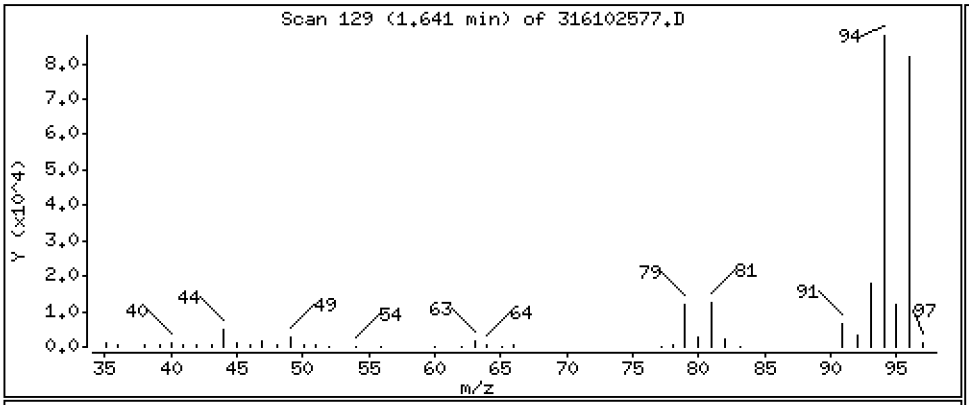
Client ID: 2184163001MS Instrument: ms03.i

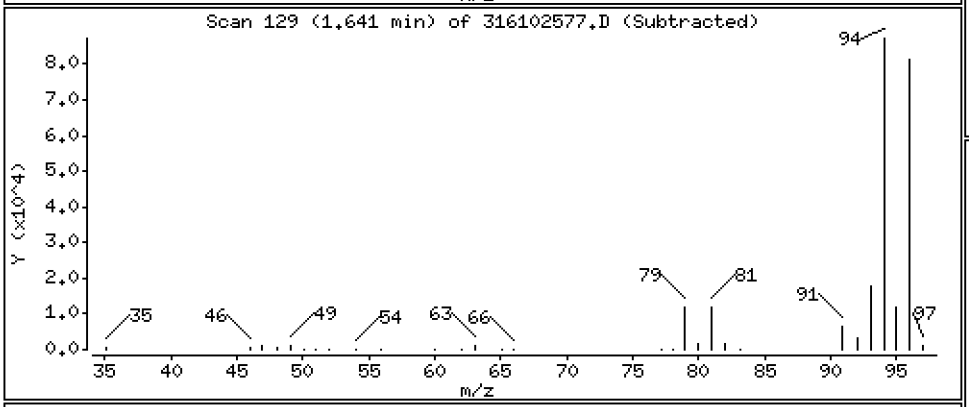
Sample Info: 2429373;;1;3;;MS;1;

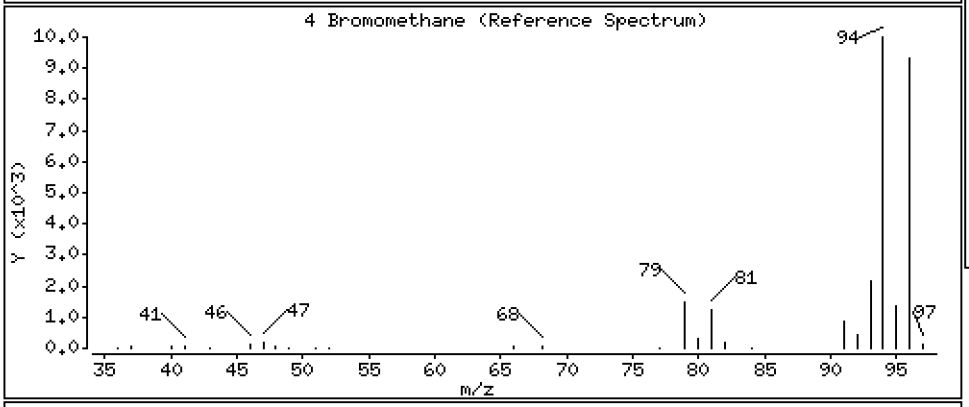
Purge Volume: 5.0 Operator: CJG

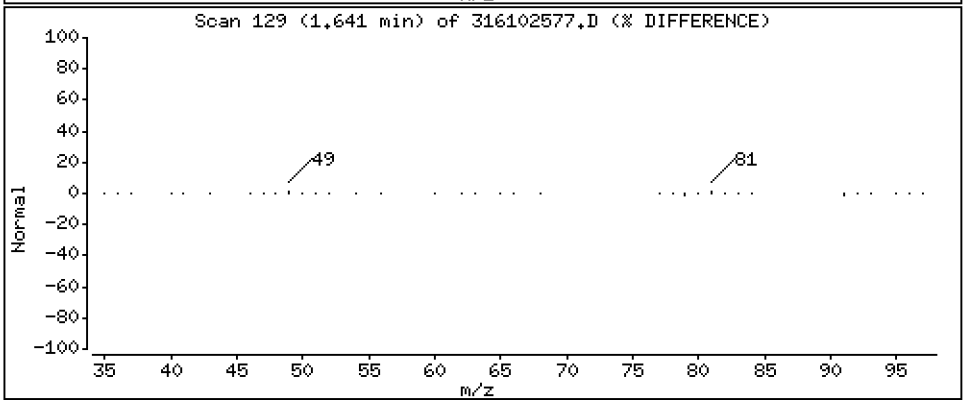
Column phase: DB-VRX Column diameter: 0.25

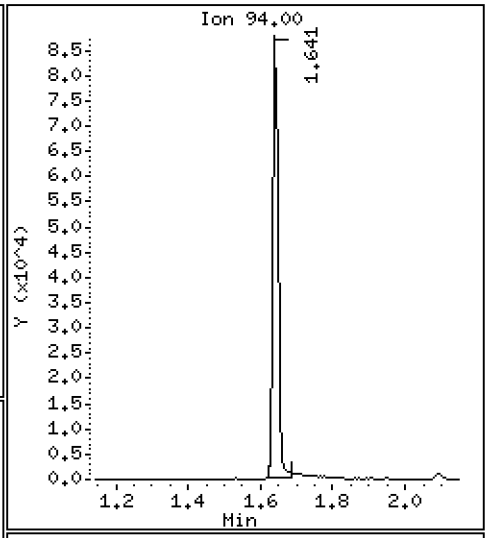
4 Bromomethane Concentration: 18.2209 ug/L

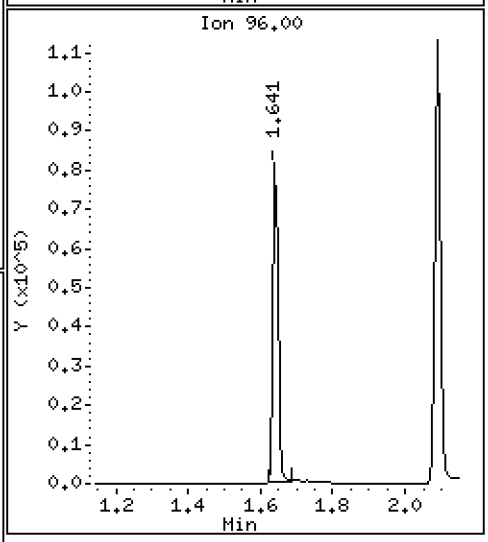












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 17

Date : 26-OCT-2016 07:30

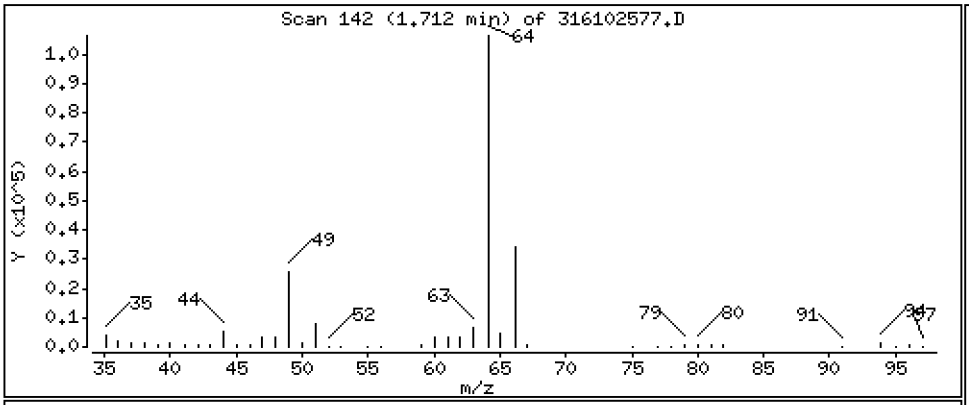
Client ID: 2184163001MS Instrument: ms03.i

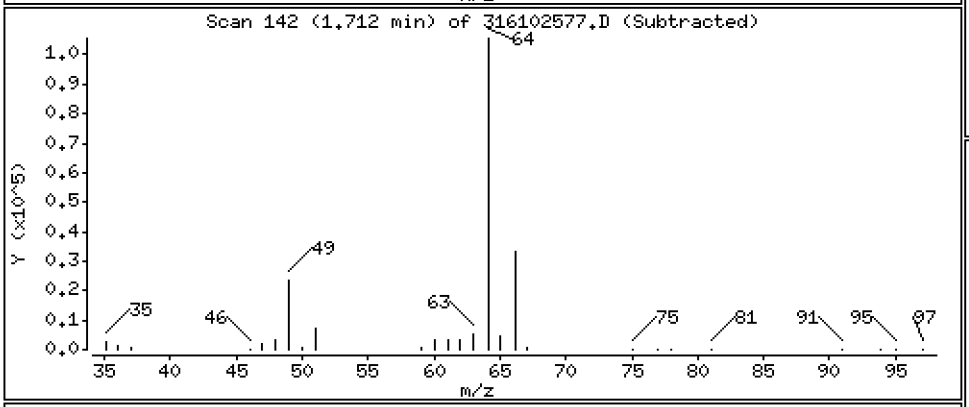
Sample Info: 2429373:1:3::MS:1:

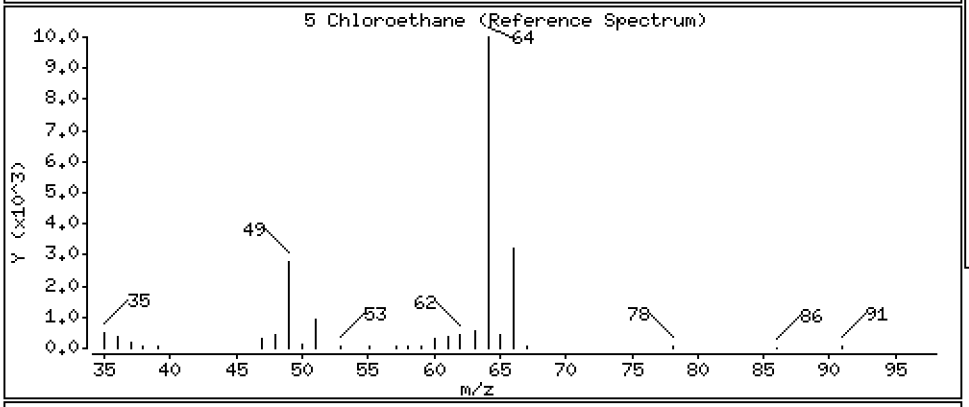
Purge Volume: 5.0 Operator: CJG

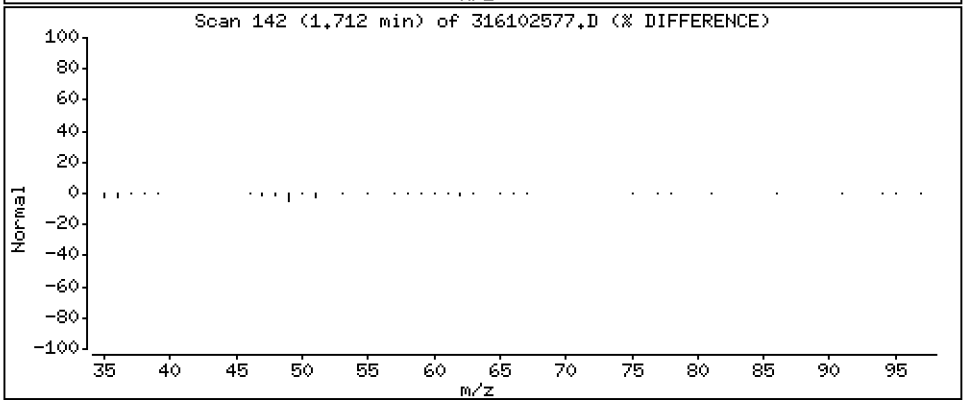
Column phase: DB-VRX Column diameter: 0.25

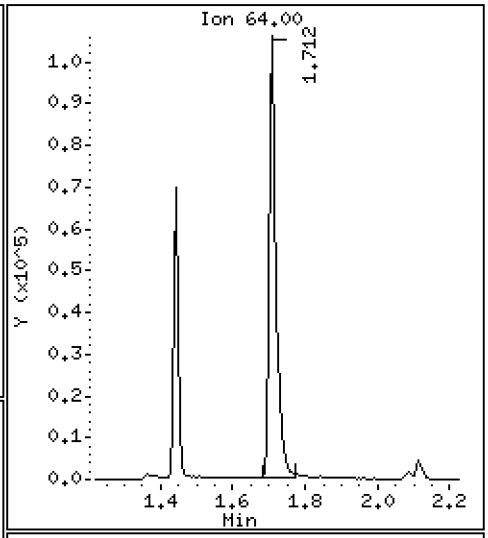
5 Chloroethane Concentration: 20.4686 ug/L

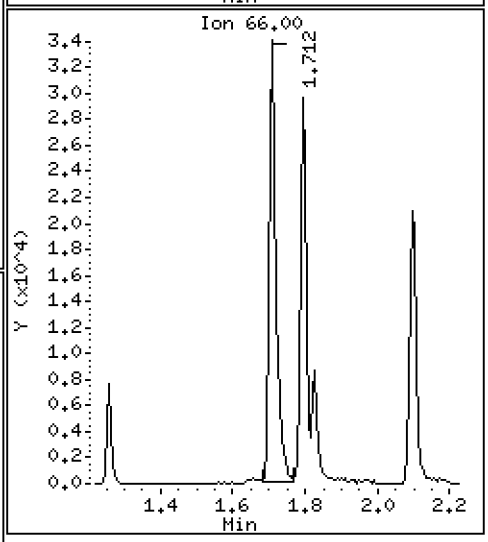












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 18

Date : 26-OCT-2016 07:30

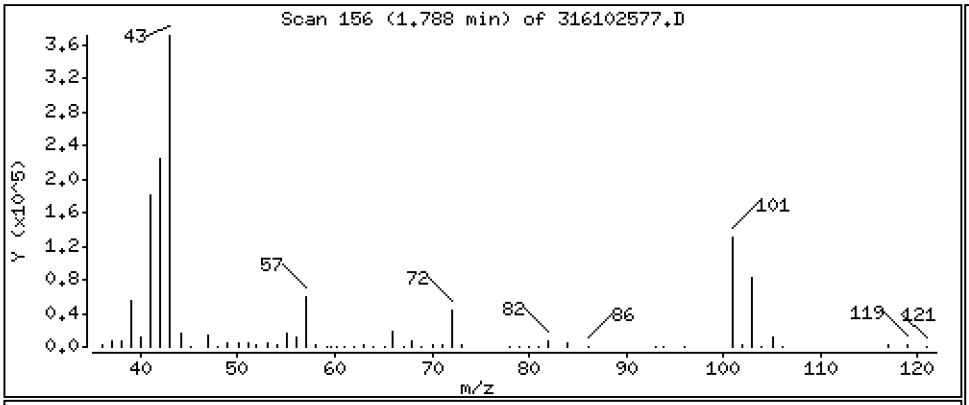
Client ID: 2184163001MS Instrument: ms03.i

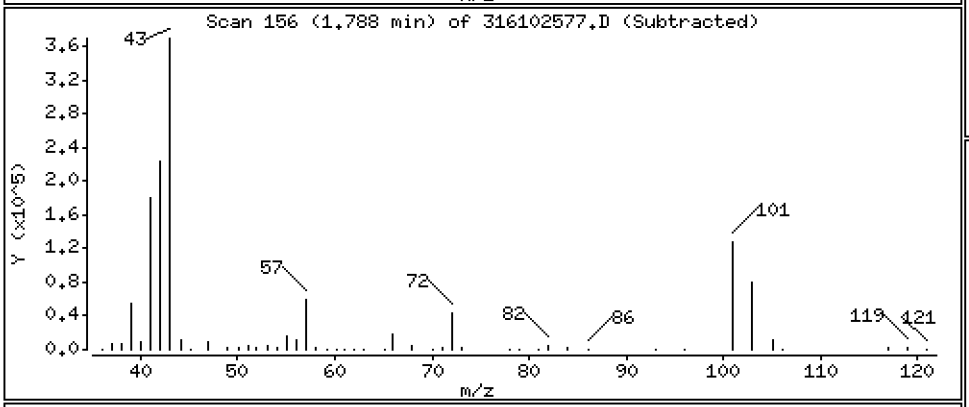
Sample Info: 2429373;;1;3;;MS;1;

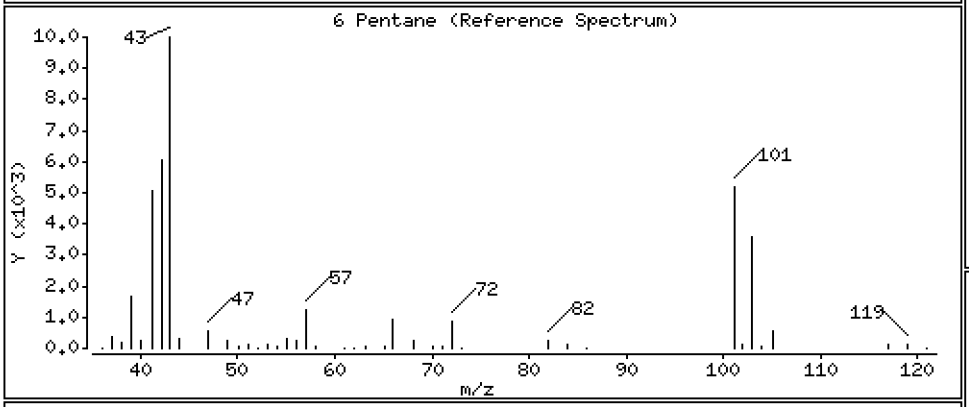
Purge Volume: 5.0 Operator: CJG

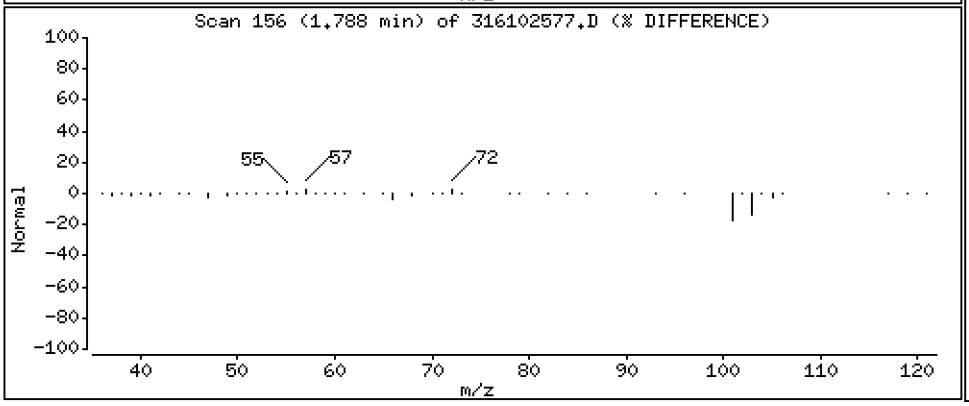
Column phase: DB-VRX Column diameter: 0.25

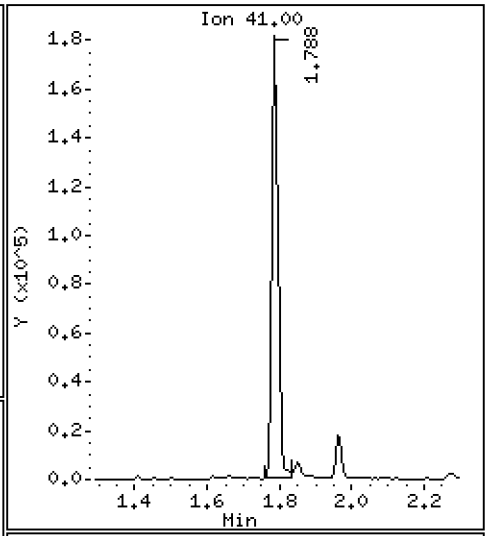
6 Pentane Concentration: 33.8769 ug/L

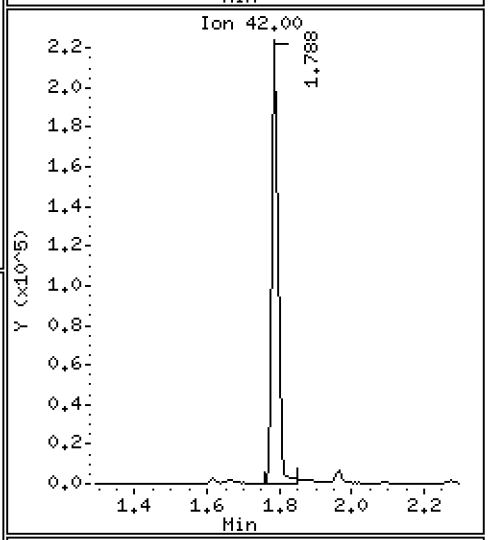


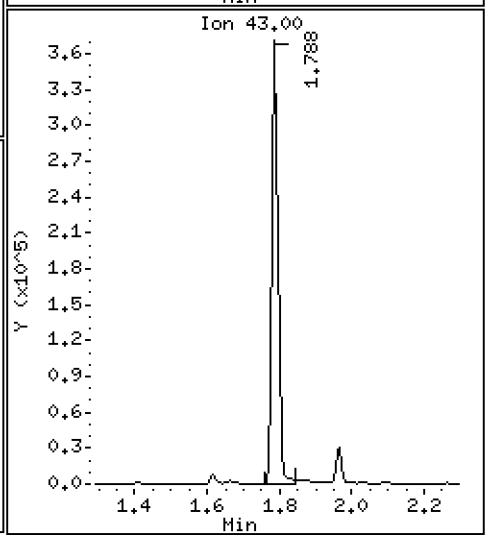












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 19

Date : 26-OCT-2016 07:30

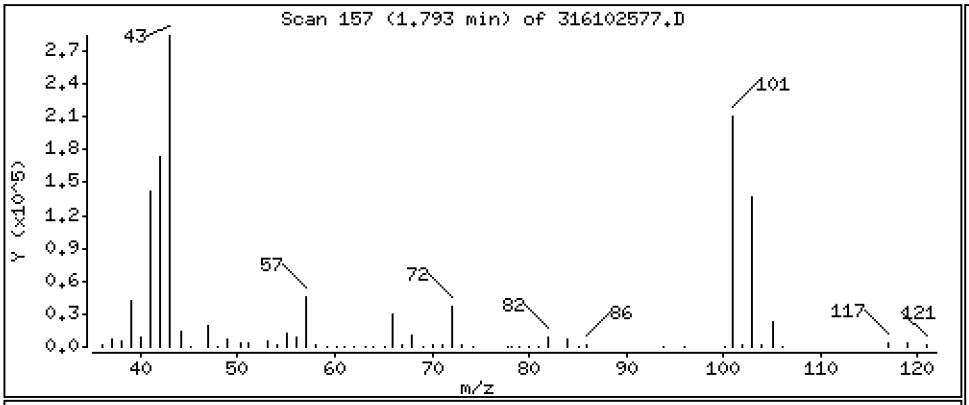
Client ID: 2184163001MS Instrument: ms03.i

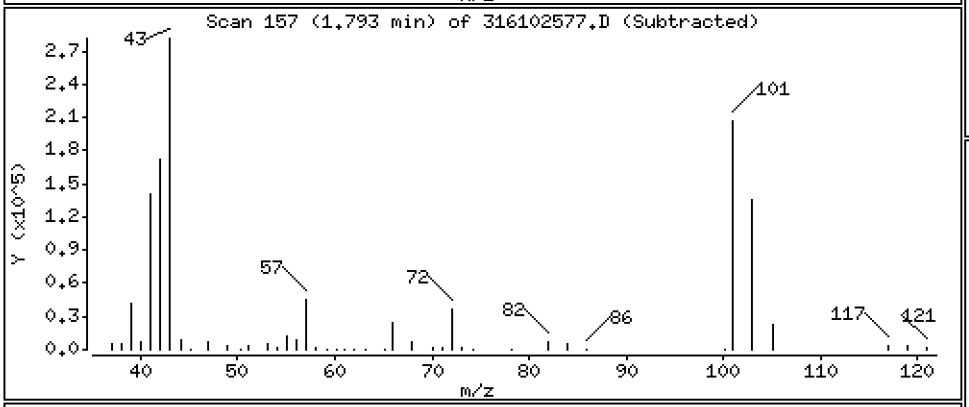
Sample Info: 2429373;;1;3;;MS;1;

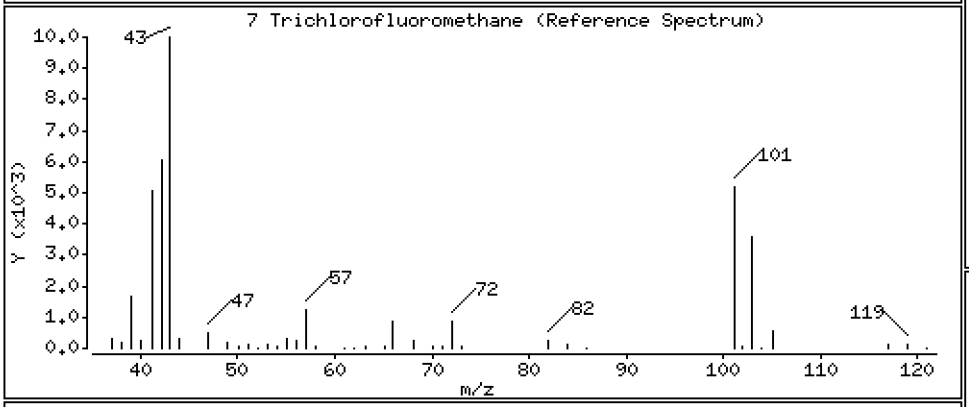
Purge Volume: 5.0 Operator: CJG

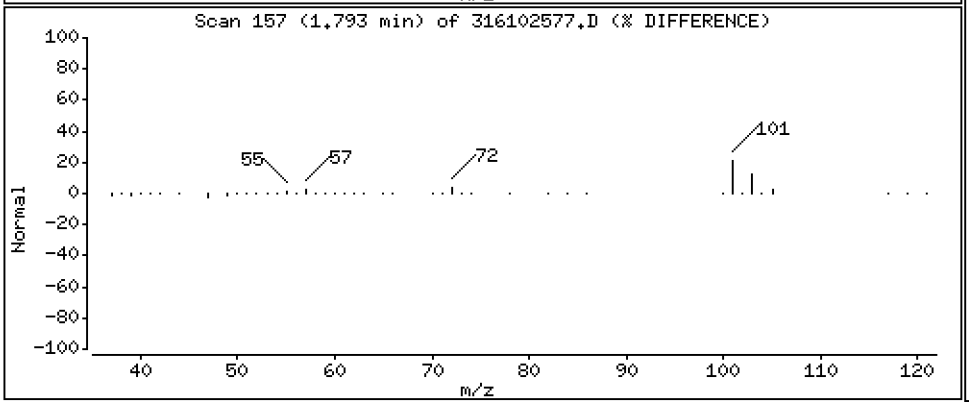
Column phase: DB-VRX Column diameter: 0.25

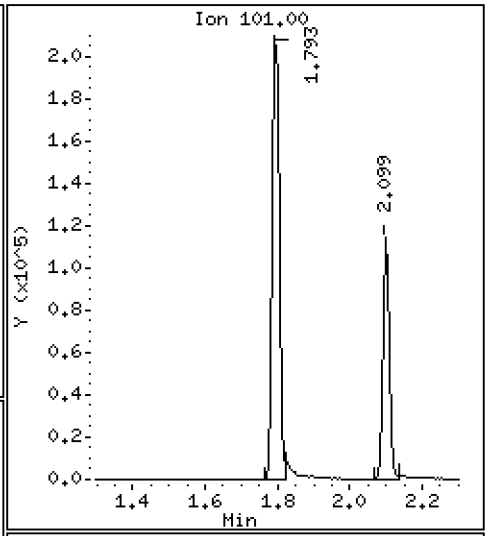
7 Trichlorofluoromethane Concentration: 20.0334 ug/L

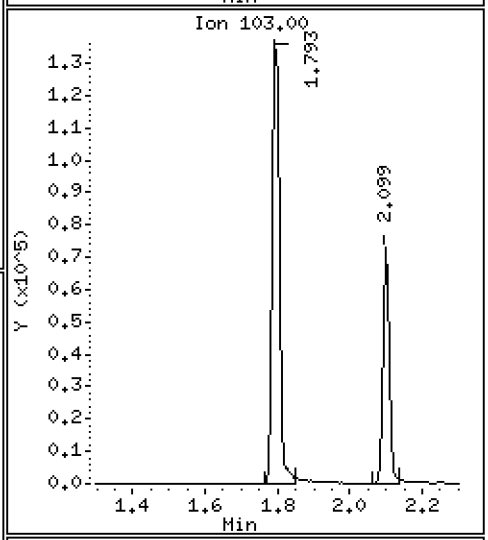


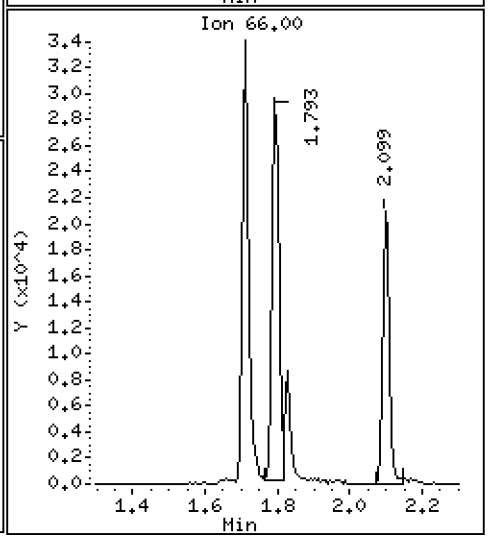












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 20

Date : 26-OCT-2016 07:30

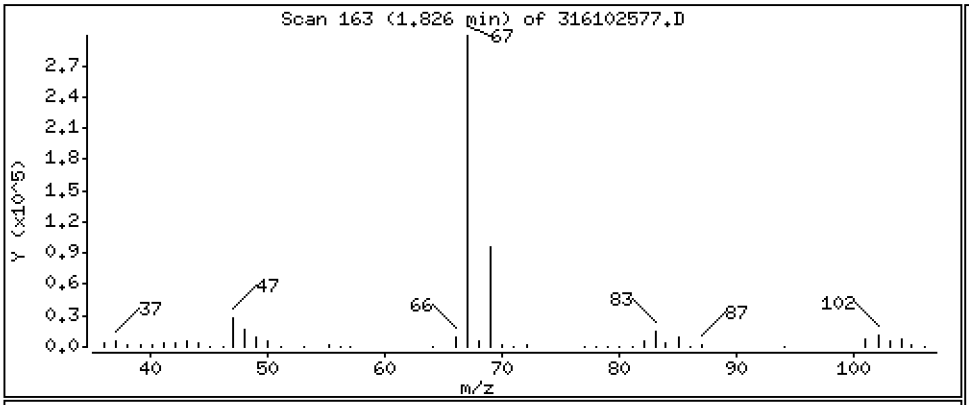
Client ID: 2184163001MS Instrument: ms03.i

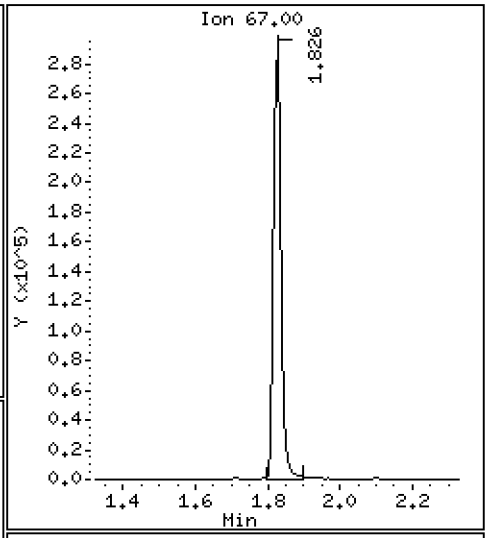
Sample Info: 2429373;;1;3;;MS;1;

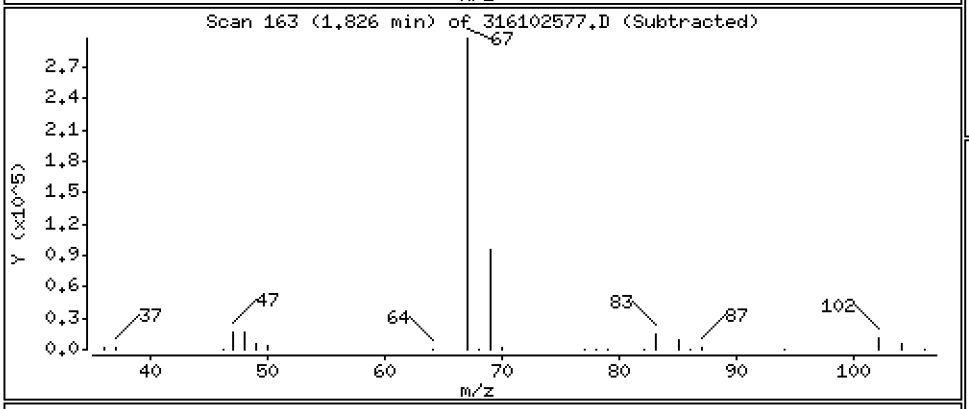
Purge Volume: 5.0 Operator: CJG

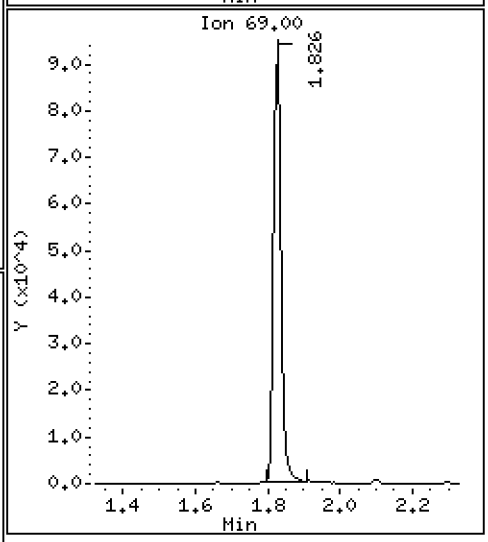
Column phase: DB-VRX Column diameter: 0.25

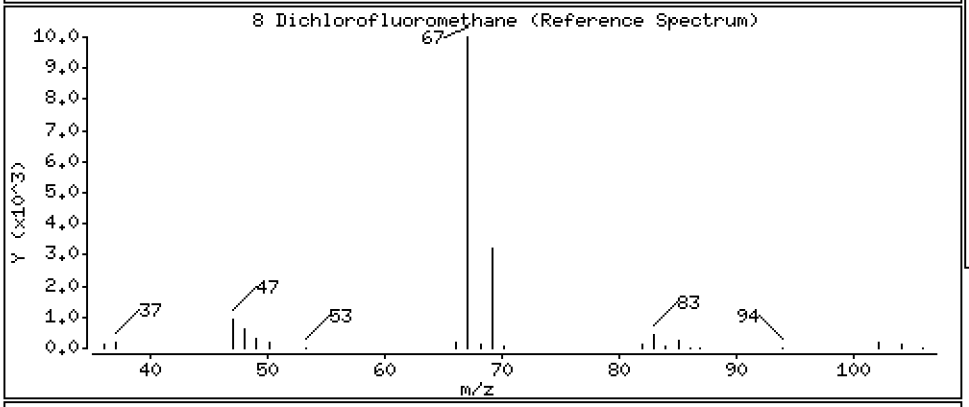
8 Dichlorofluoromethane Concentration: 22.3464 ug/L

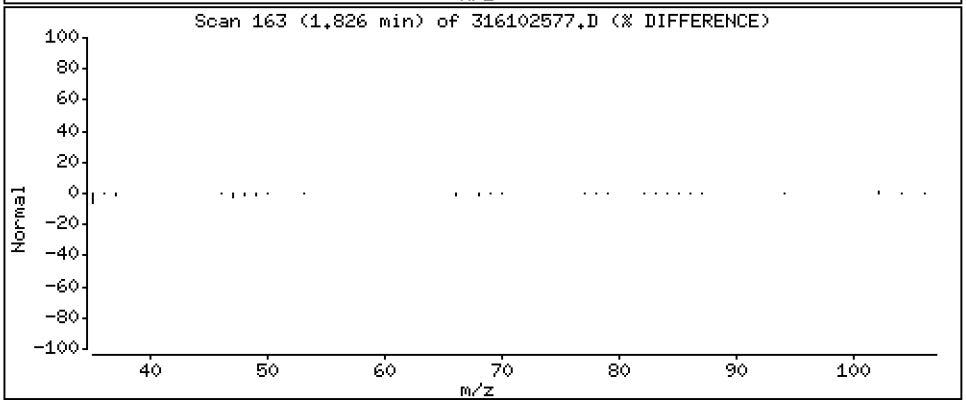












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 21

Date : 26-OCT-2016 07:30

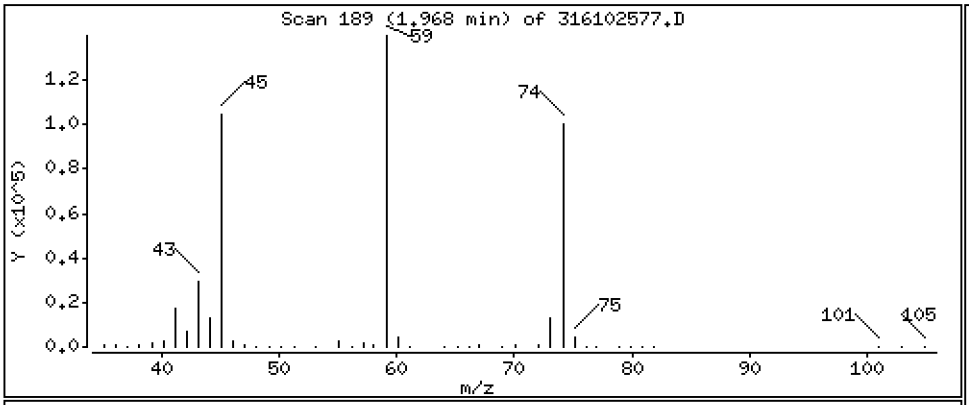
Client ID: 2184163001MS Instrument: ms03.i

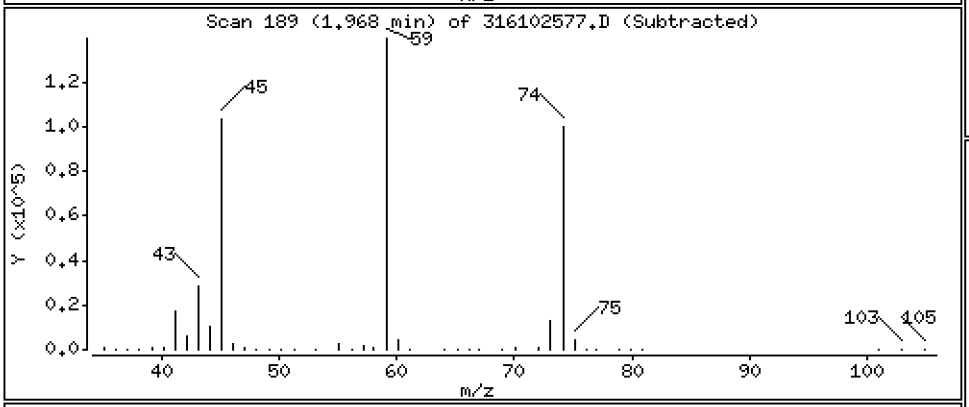
Sample Info: 2429373;;1;3;;MS;1;

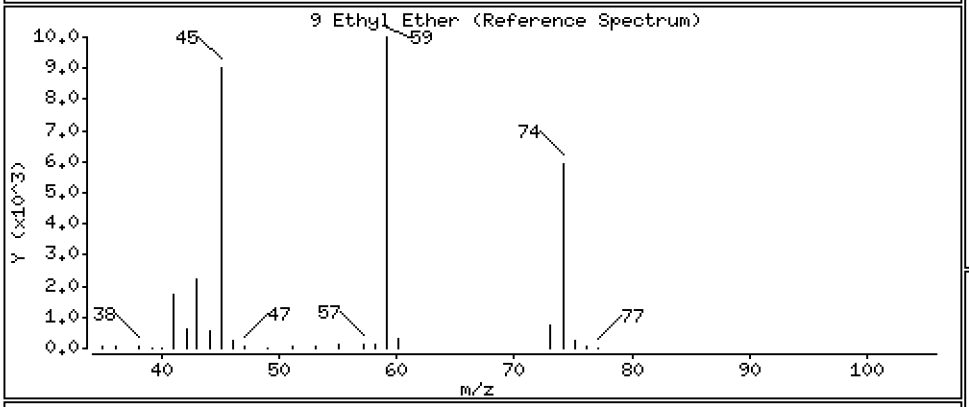
Purge Volume: 5.0 Operator: CJG

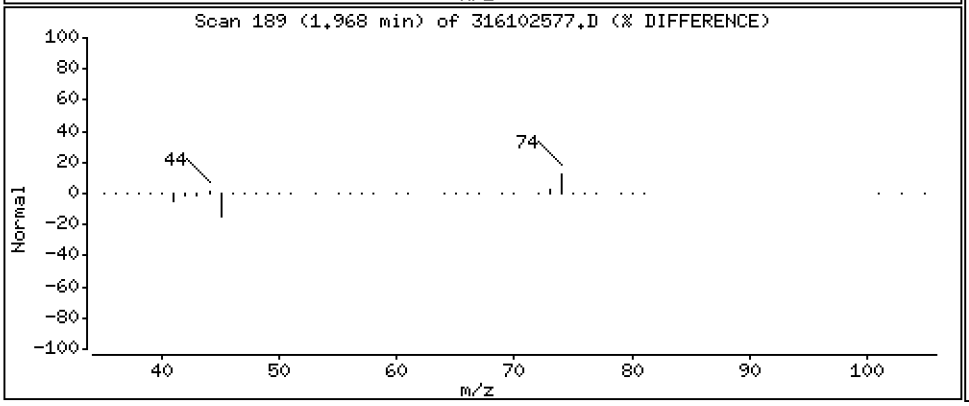
Column phase: DB-VRX Column diameter: 0.25

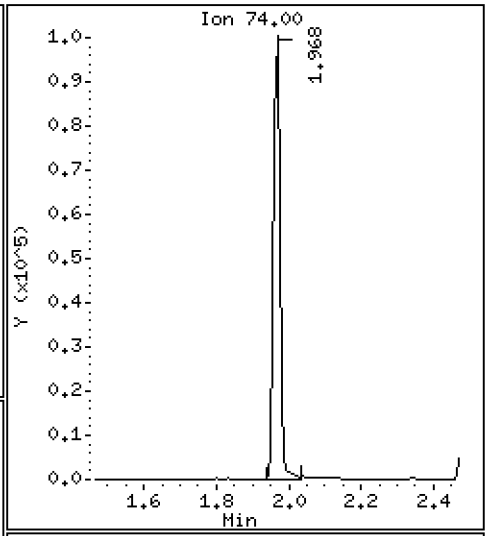
9 Ethyl Ether Concentration: 19.7960 ug/L

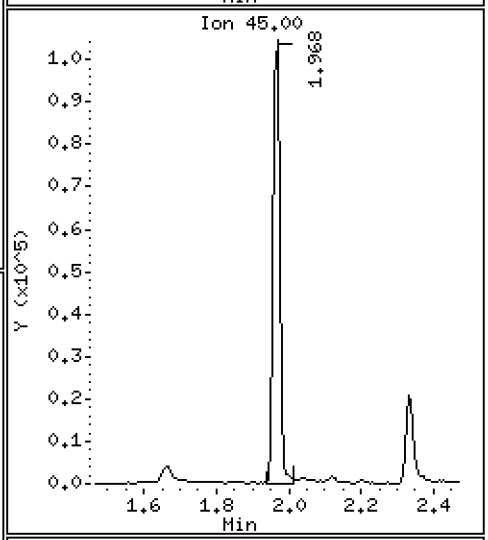


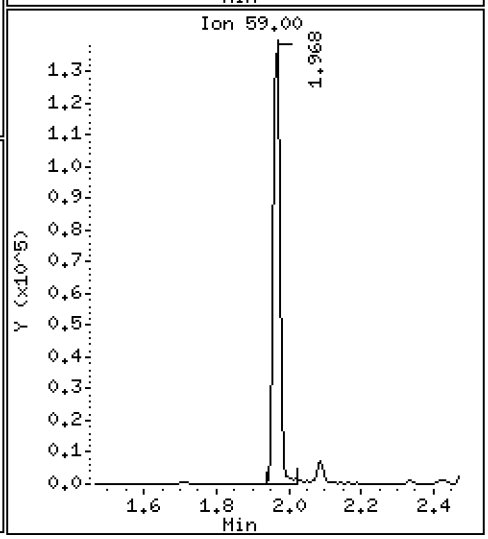












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 22

Date : 26-OCT-2016 07:30

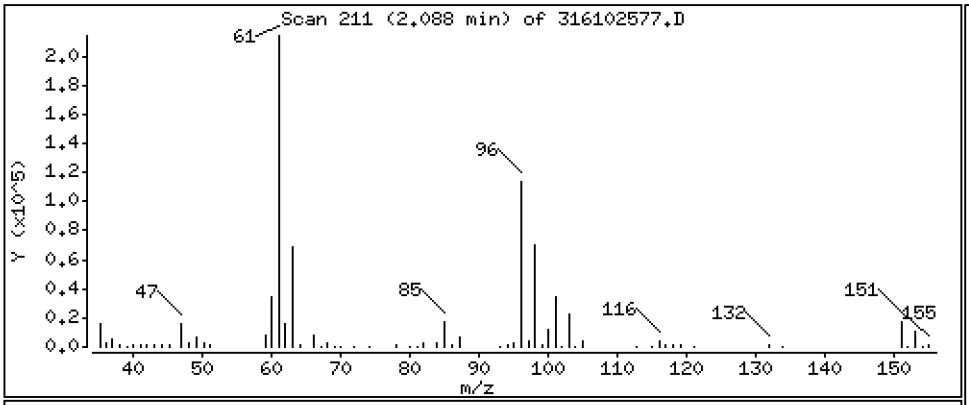
Client ID: 2184163001MS Instrument: ms03.i

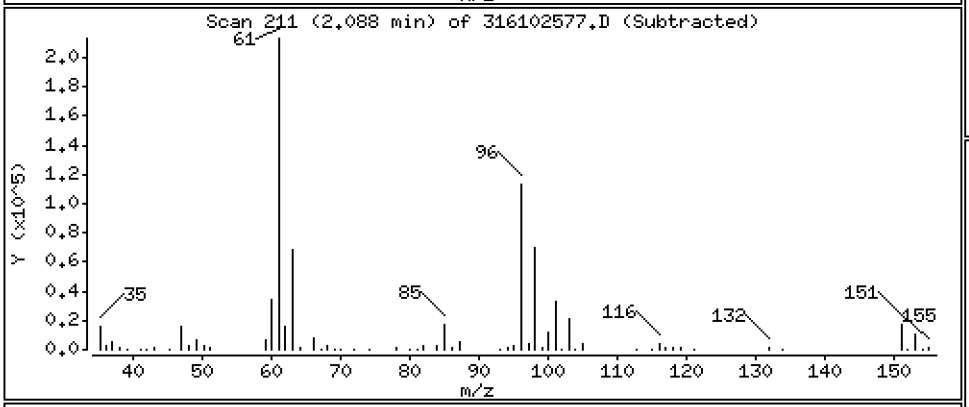
Sample Info: 2429373;;1;3;;MS;1;

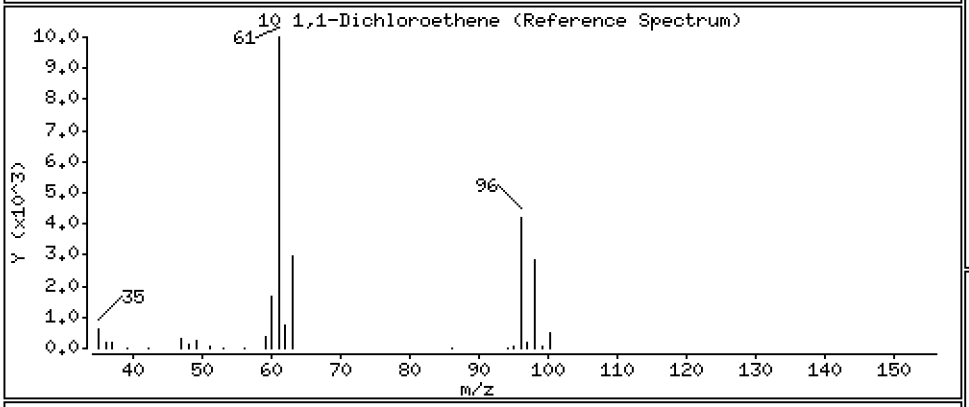
Purge Volume: 5.0 Operator: CJG

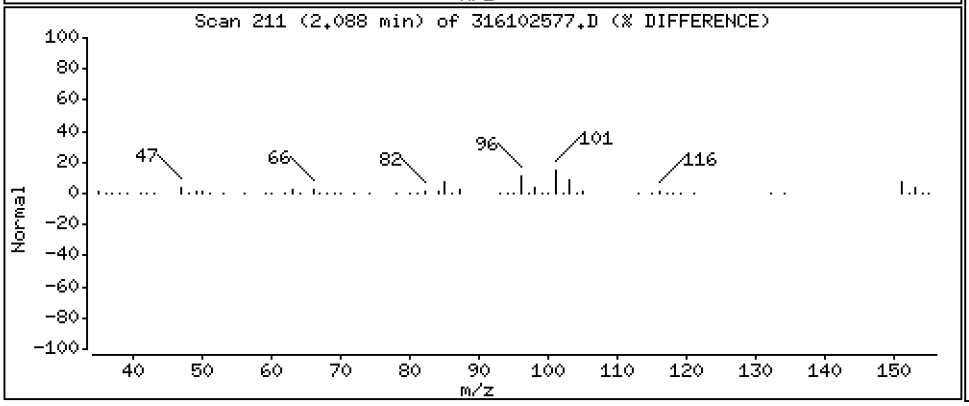
Column phase: DB-VRX Column diameter: 0.25

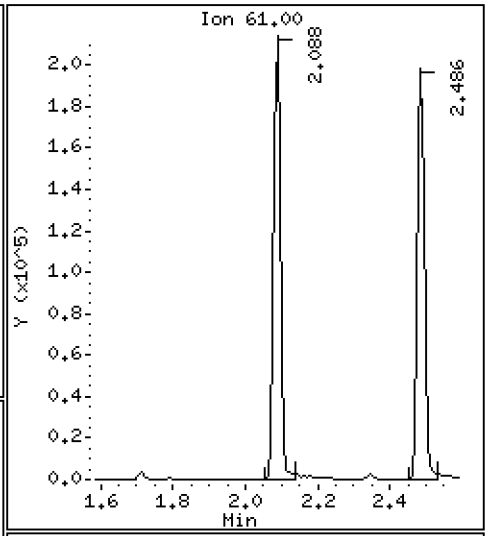
10 1,1-Dichloroethene Concentration: 21.7112 ug/L

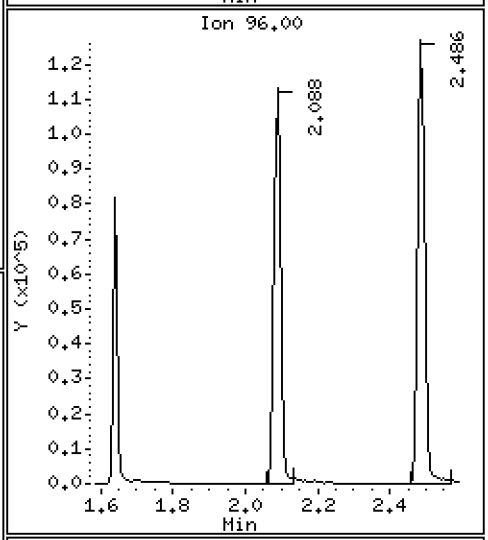


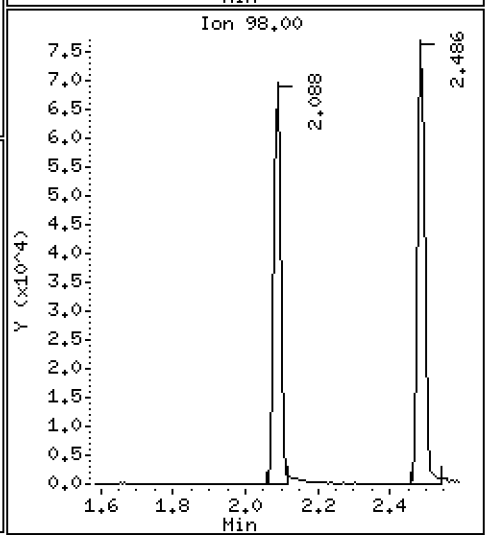












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 23

Date : 26-OCT-2016 07:30

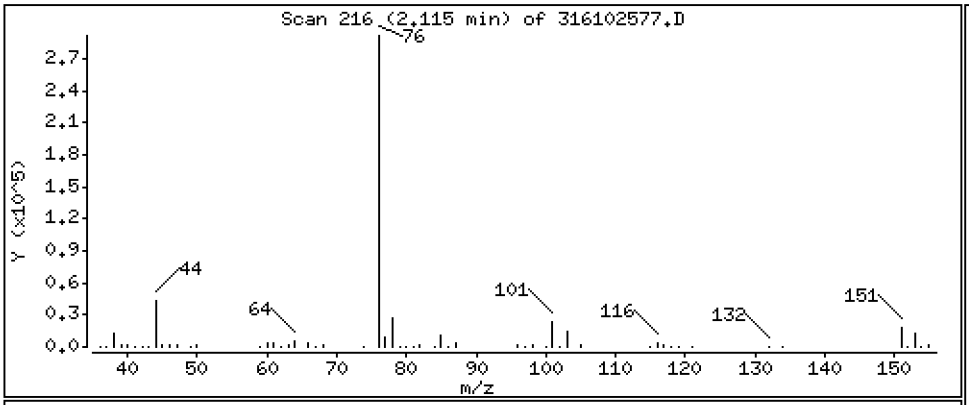
Client ID: 2184163001MS Instrument: ms03.i

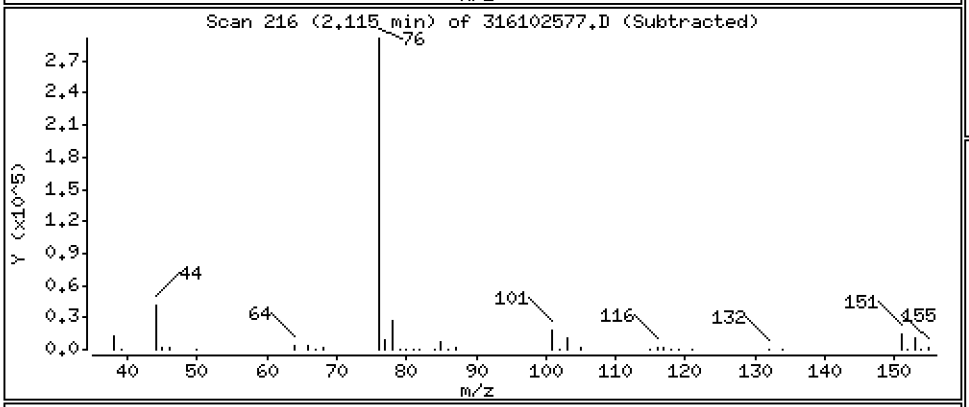
Sample Info: 2429373;;1;3;;MS;1;

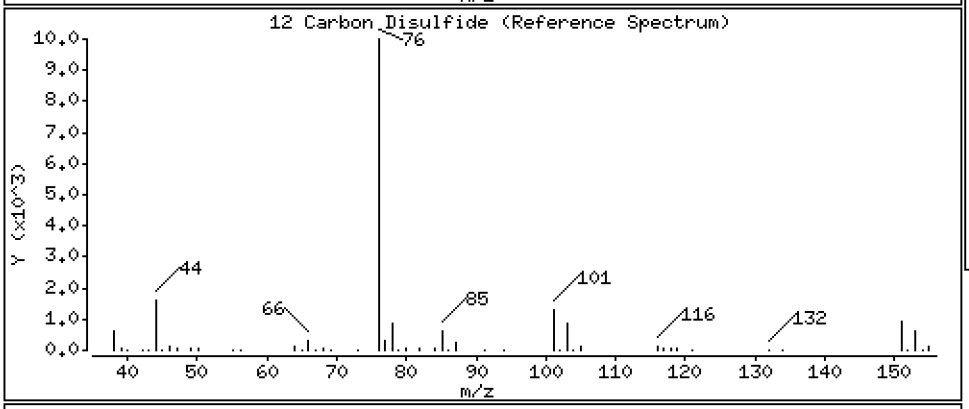
Purge Volume: 5.0 Operator: CJG

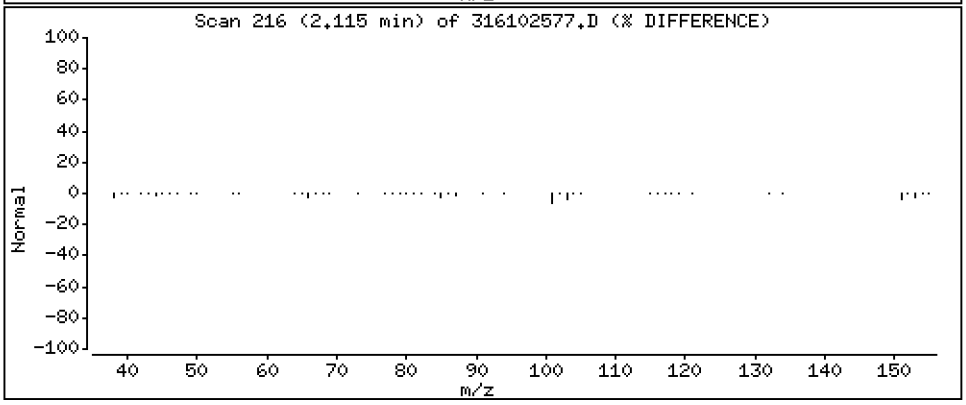
Column phase: DB-VRX Column diameter: 0.25

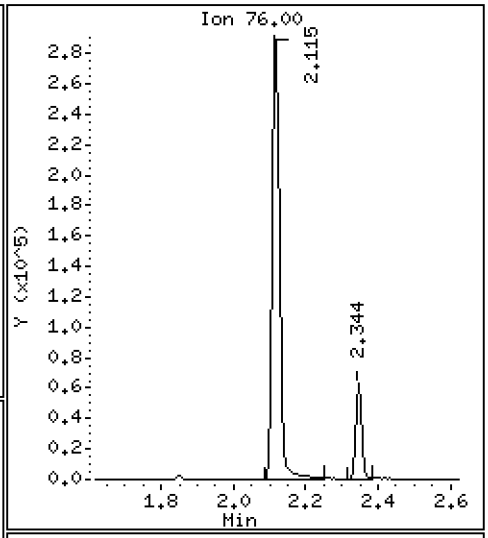
12 Carbon Disulfide Concentration: 19.5722 ug/L

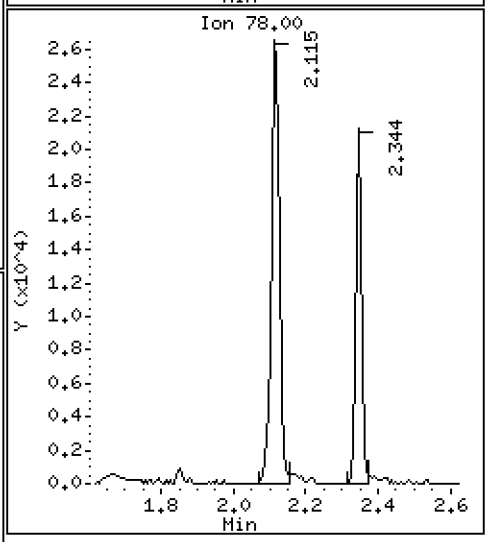












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 24

Date : 26-OCT-2016 07:30

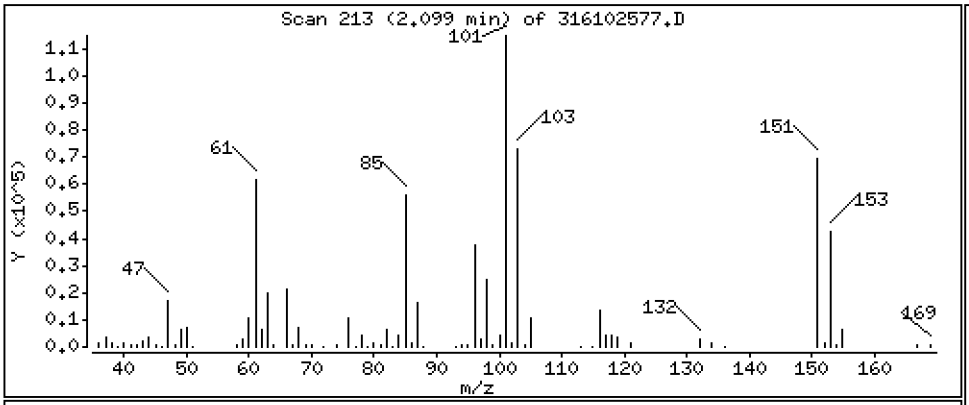
Client ID: 2184163001MS Instrument: ms03.i

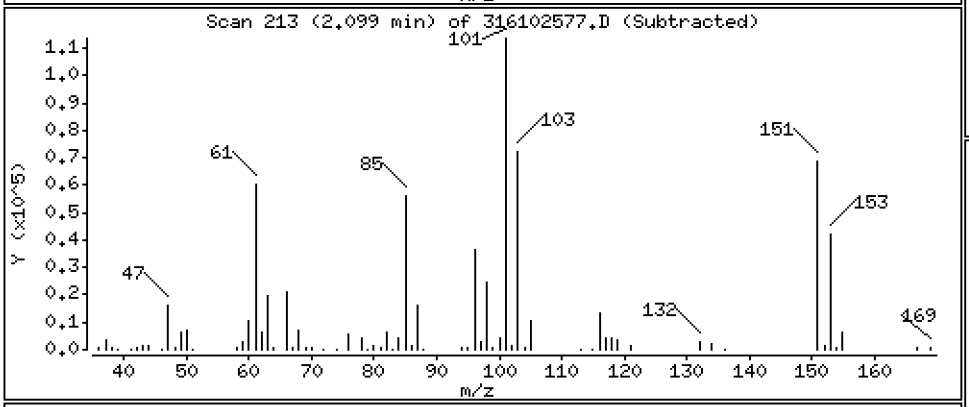
Sample Info: 2429373;;1;3;;MS;1;

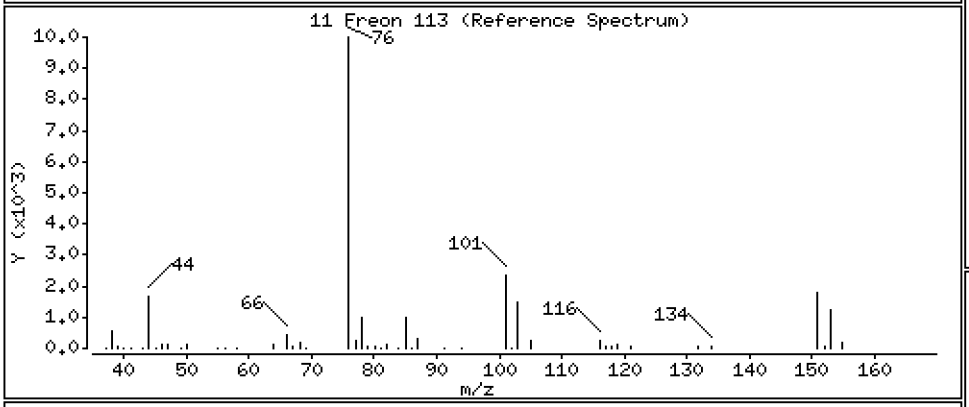
Purge Volume: 5.0 Operator: CJG

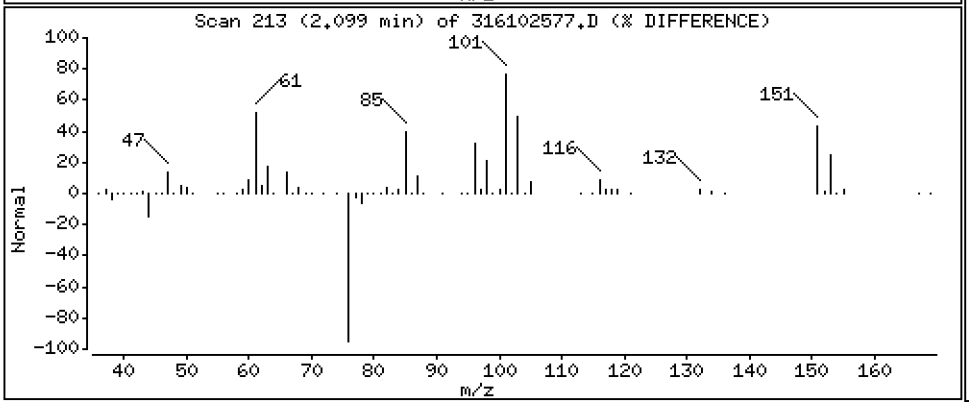
Column phase: DB-VRX Column diameter: 0.25

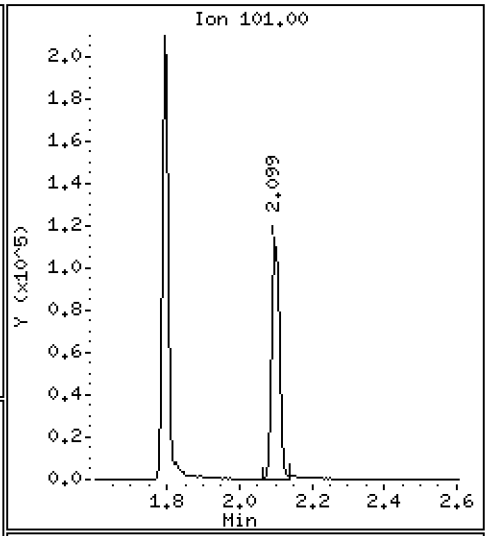
11 Freon 113 Concentration: 23.2405 ug/L

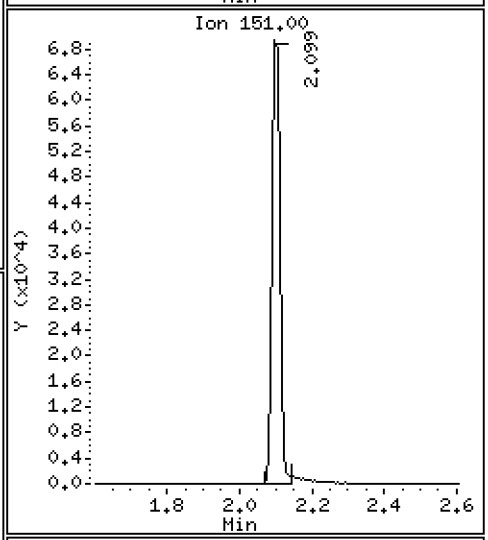


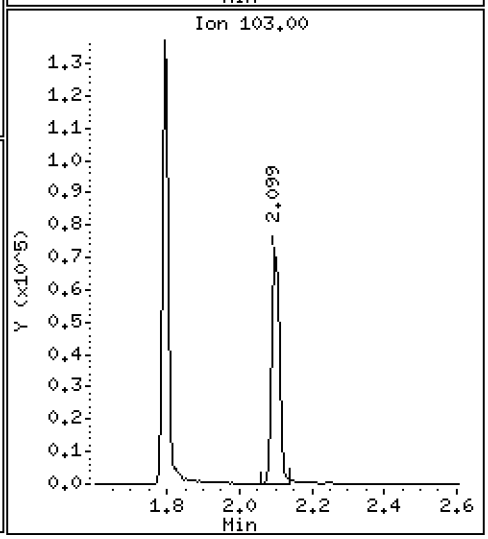












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 25

Date : 26-OCT-2016 07:30

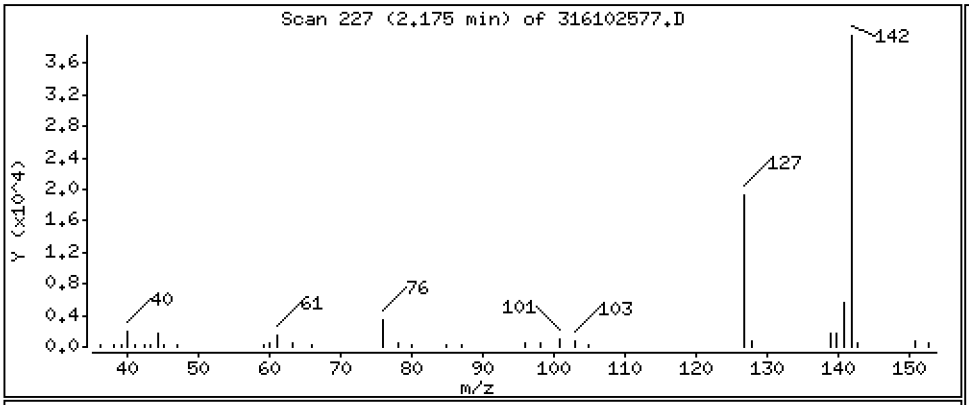
Client ID: 2184163001MS Instrument: ms03.i

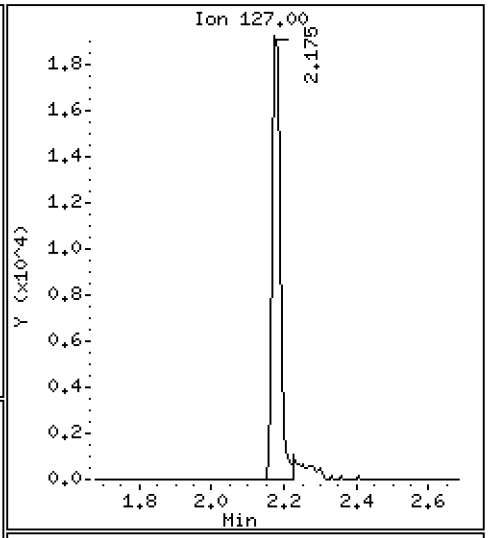
Sample Info: 2429373;;1;3;;MS;1;

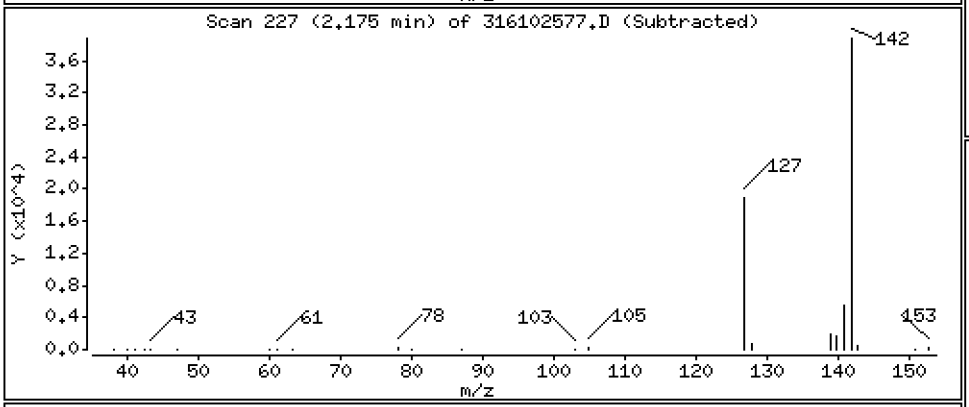
Purge Volume: 5.0 Operator: CJG

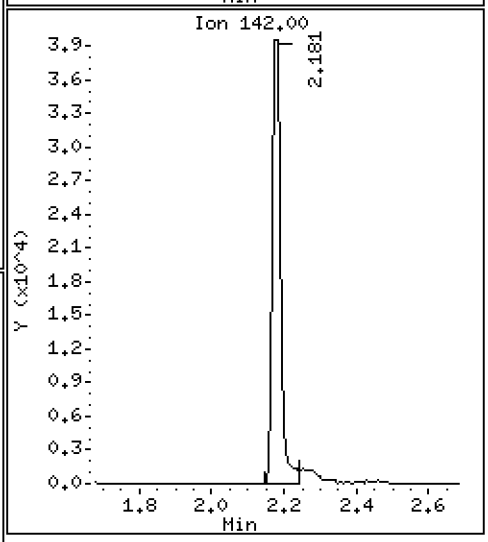
Column phase: DB-VRX Column diameter: 0.25

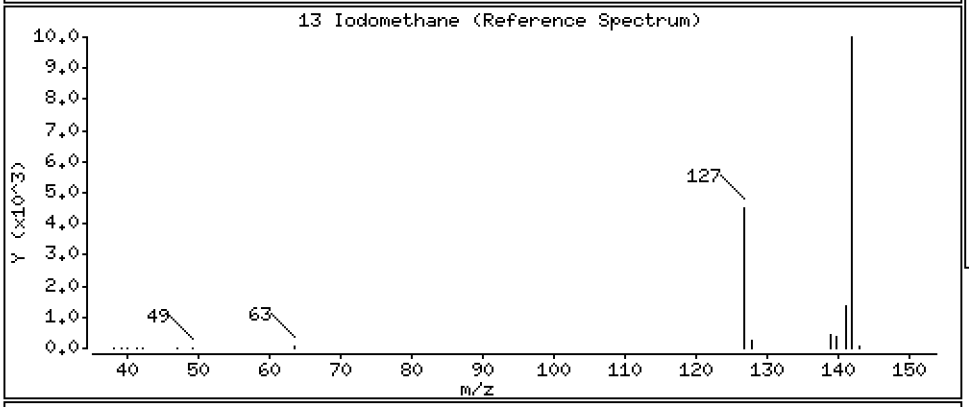
13 Iodomethane Concentration: 18.0213 ug/L

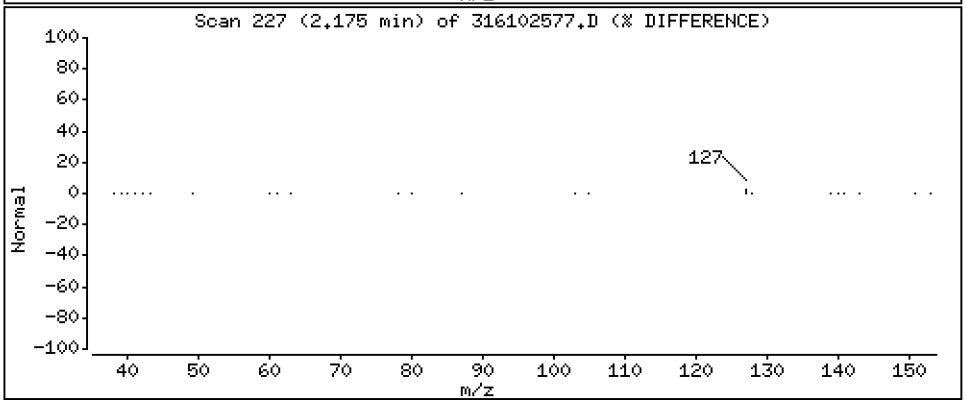












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 26

Date : 26-OCT-2016 07:30

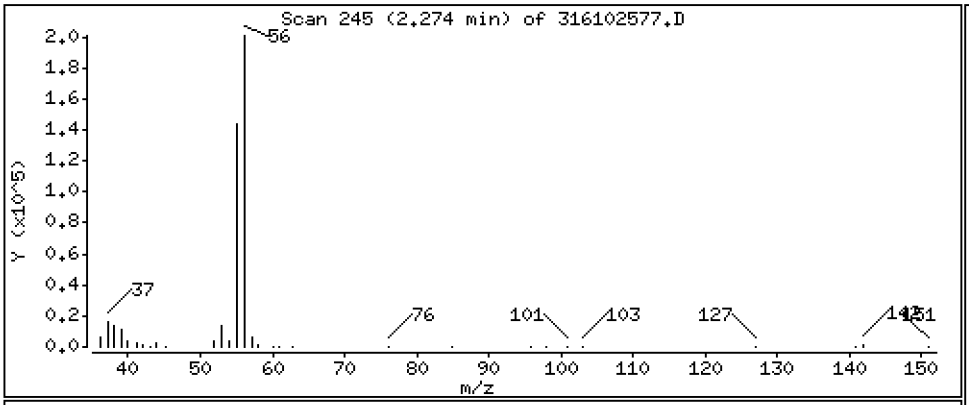
Client ID: 2184163001MS Instrument: ms03.i

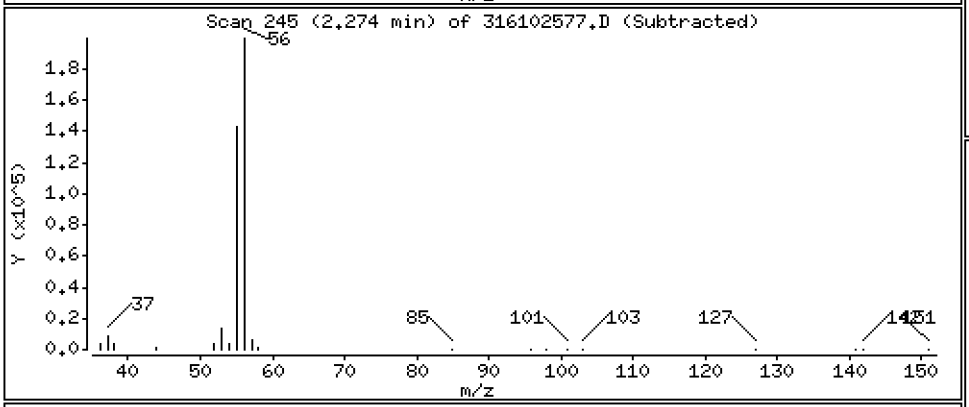
Sample Info: 2429373;;1;3;;MS;1;

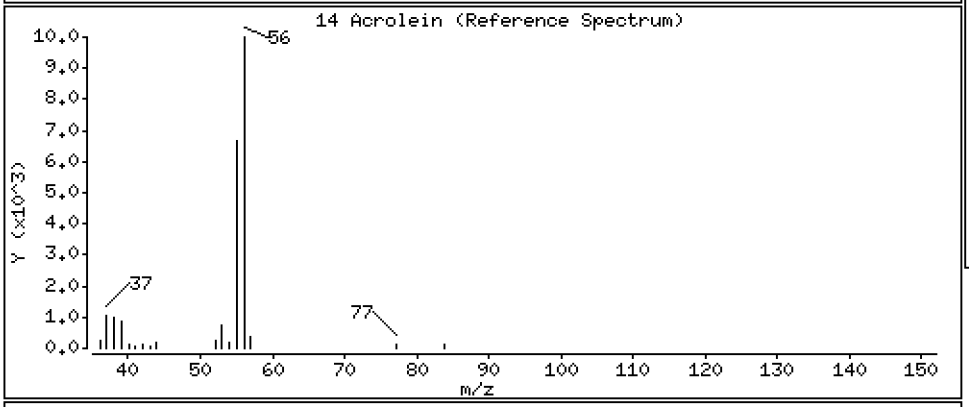
Purge Volume: 5.0 Operator: CJG

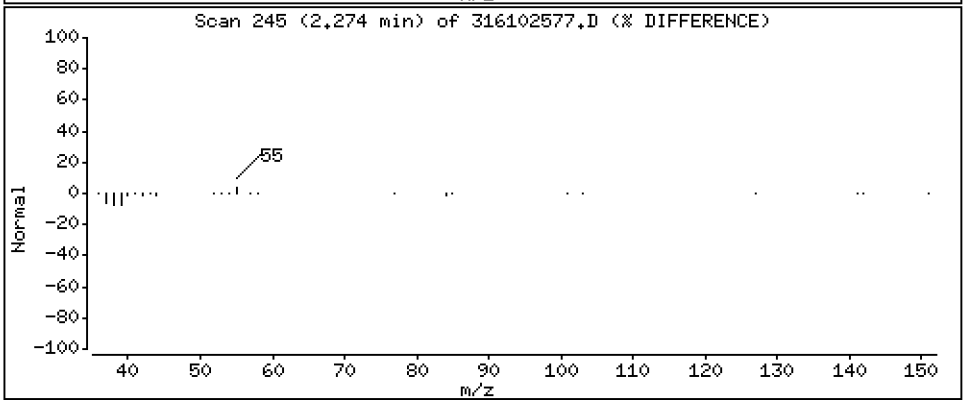
Column phase: DB-VRX Column diameter: 0.25

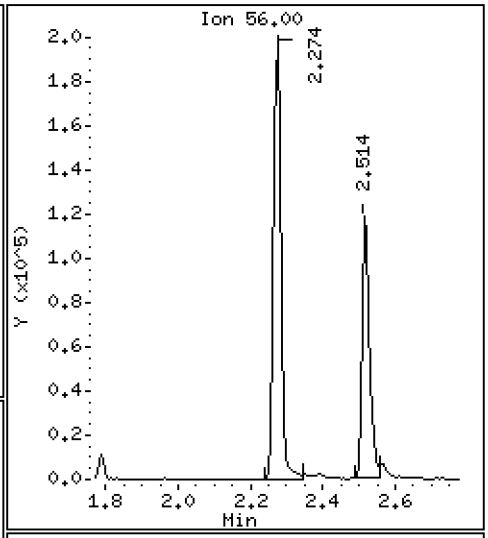
14 Acrolein Concentration: 237.249 ug/L

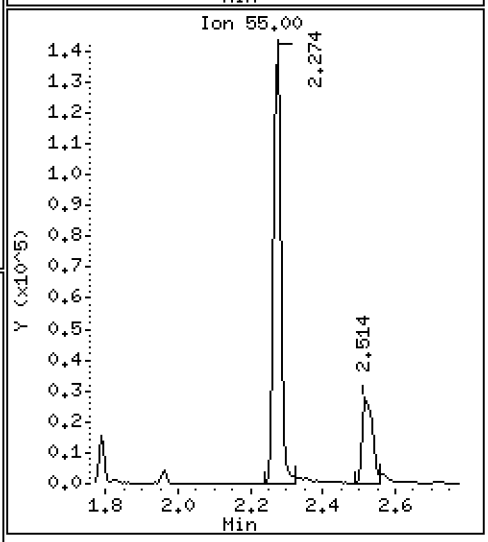












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 27

Date : 26-OCT-2016 07:30

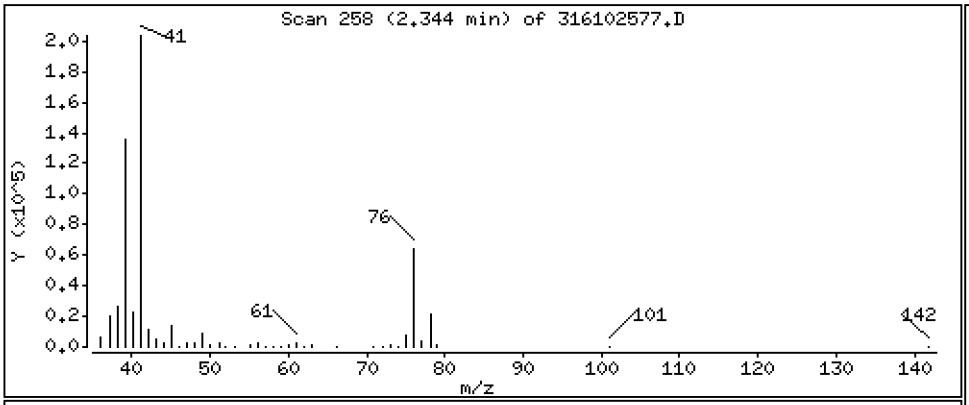
Client ID: 2184163001MS Instrument: ms03.i

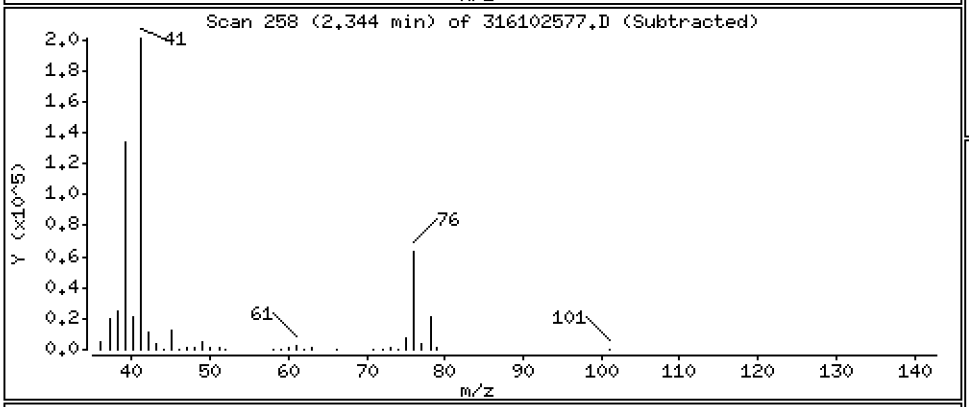
Sample Info: 2429373;;1;3;;MS;1;

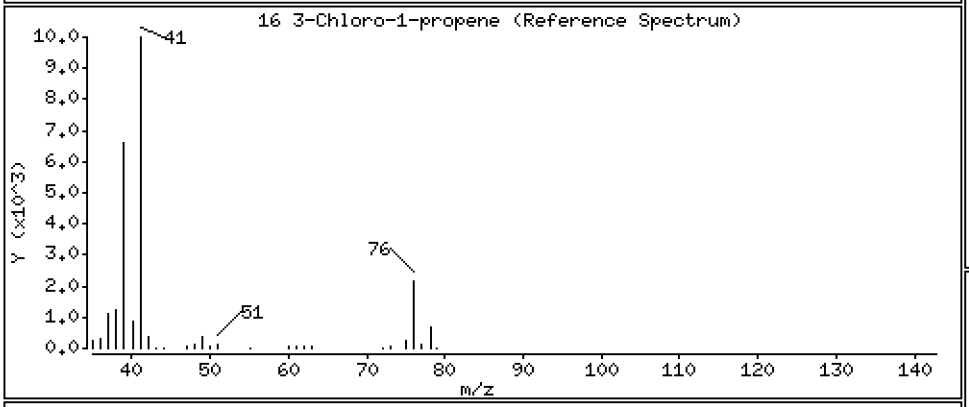
Purge Volume: 5.0 Operator: CJG

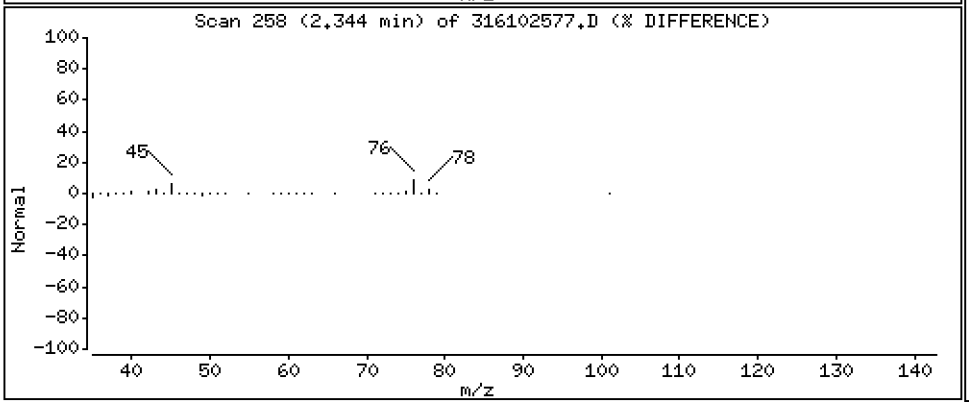
Column phase: DB-VRX Column diameter: 0.25

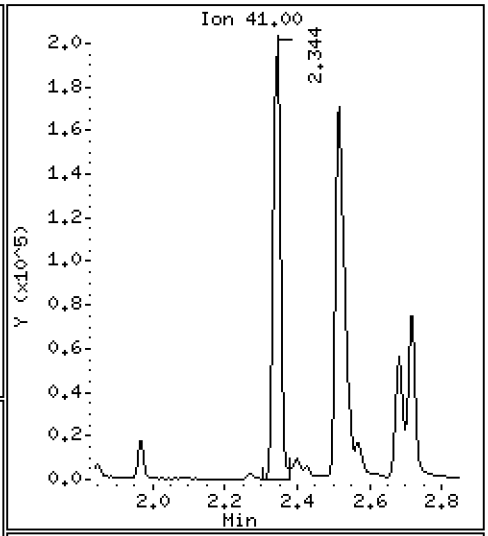
16 3-Chloro-1-propene Concentration: 25.7613 ug/L

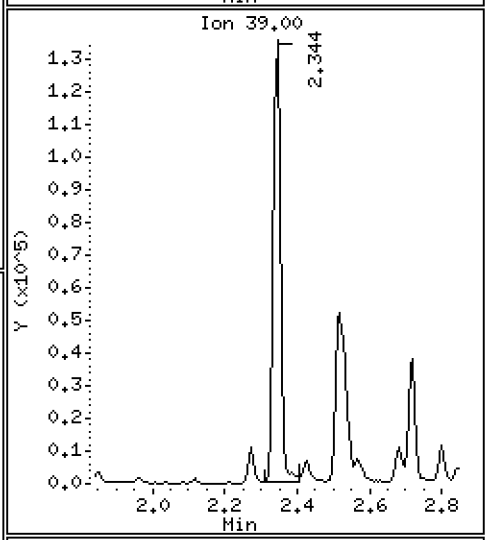


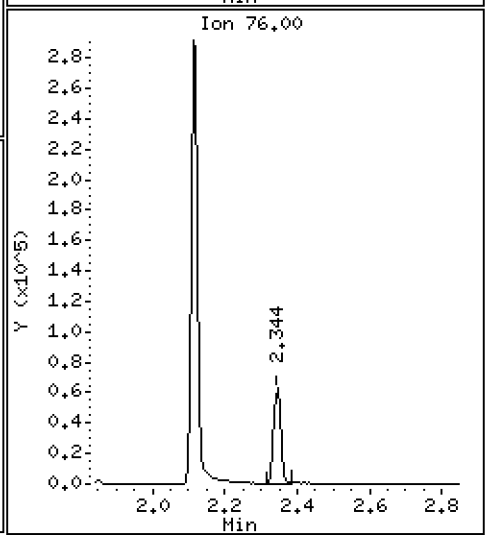












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 28

Date : 26-OCT-2016 07:30

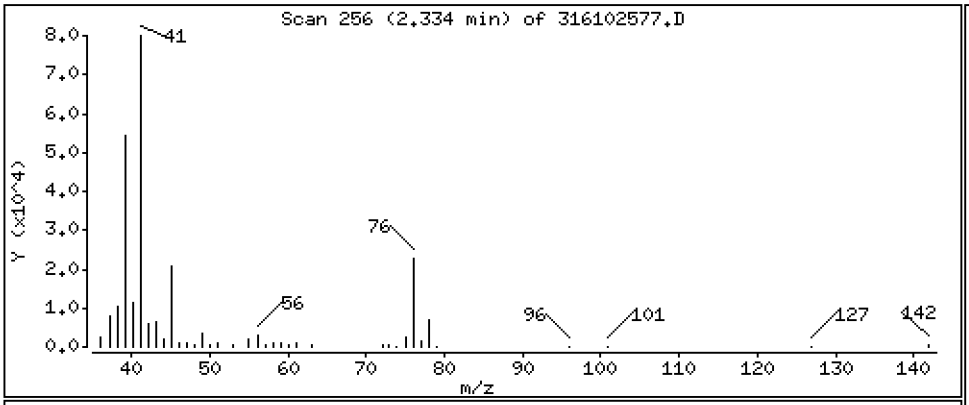
Client ID: 2184163001MS Instrument: ms03.i

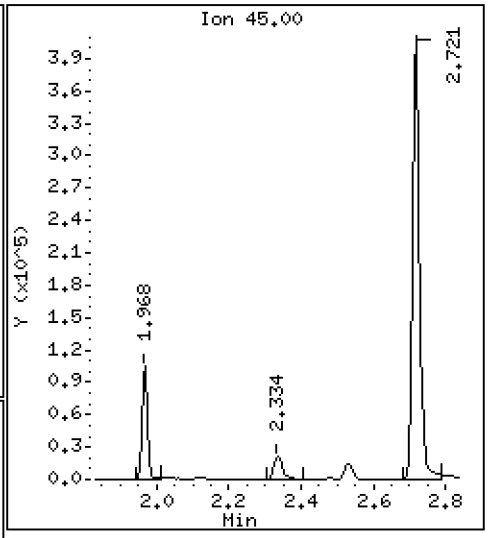
Sample Info: 2429373;;1;3;;MS;1;

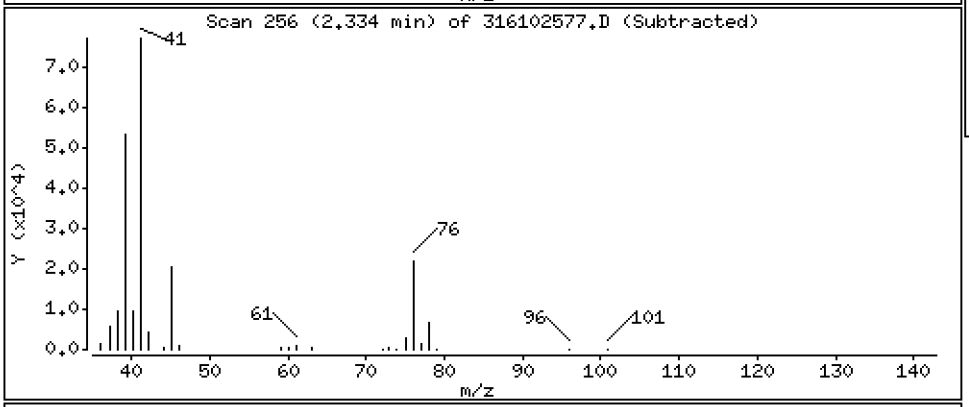
Purge Volume: 5.0 Operator: CJG

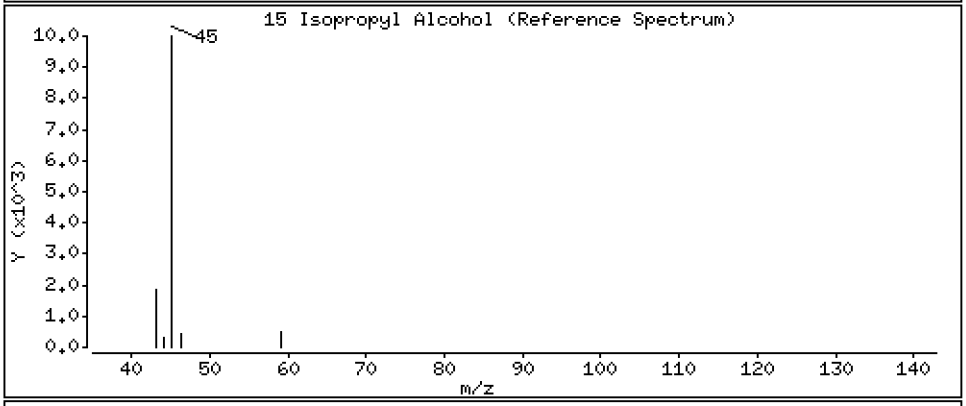
Column phase: DB-VRX Column diameter: 0.25

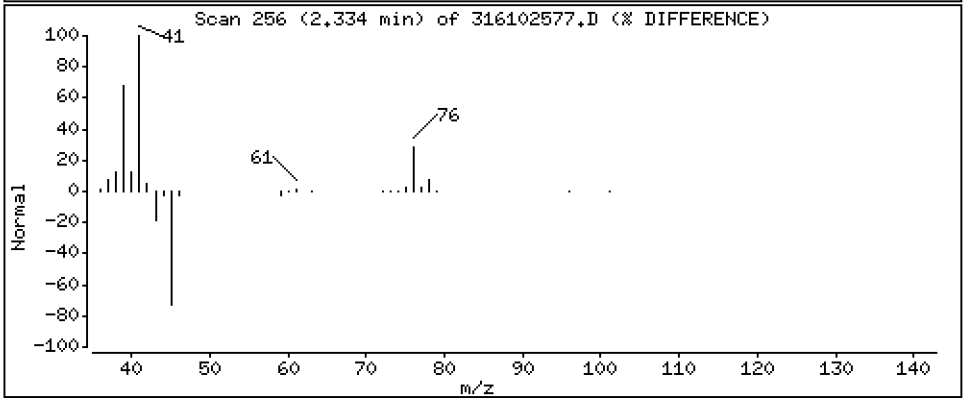
15 Isopropyl Alcohol Concentration: 142.597 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 29

Date : 26-OCT-2016 07:30

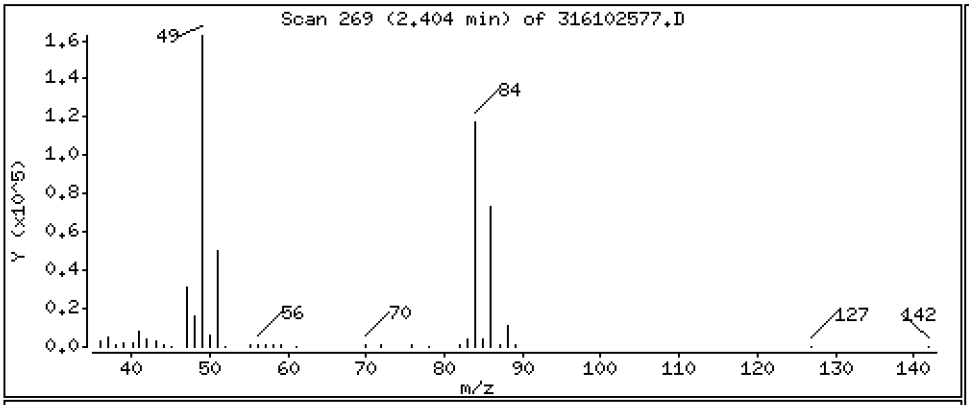
Client ID: 2184163001MS Instrument: ms03.i

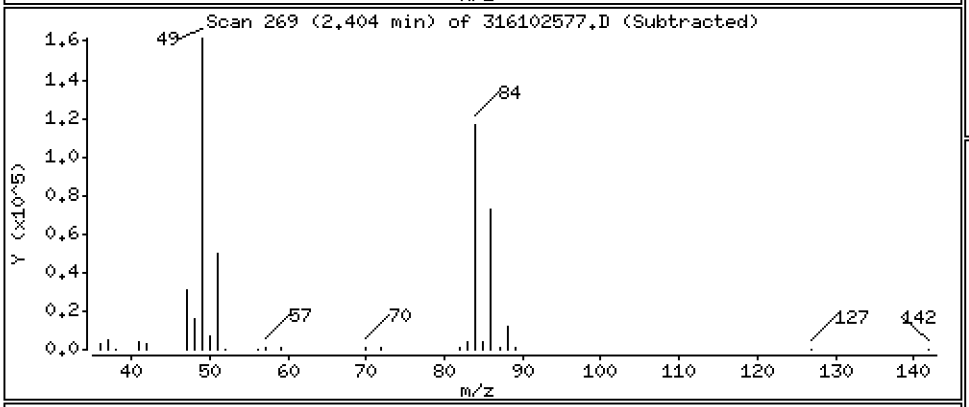
Sample Info: 2429373;;1;3;;MS;1;

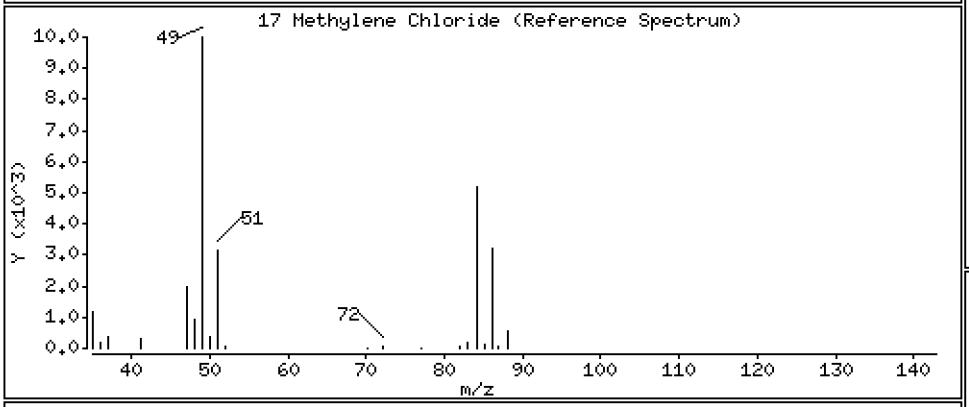
Purge Volume: 5.0 Operator: CJG

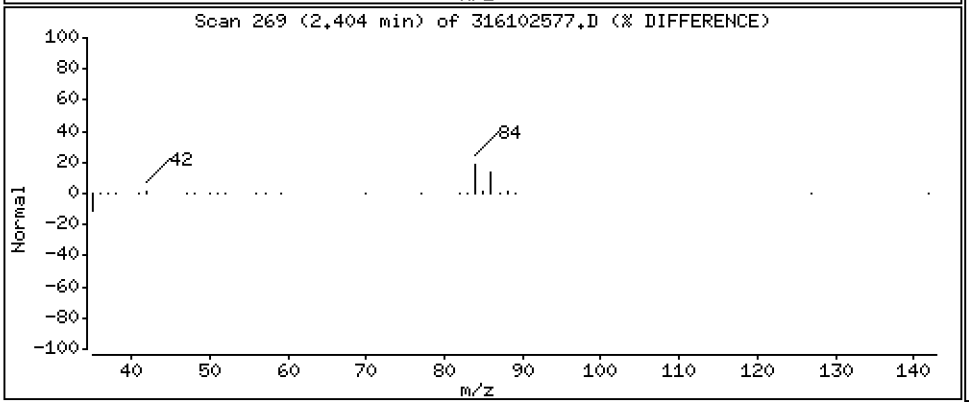
Column phase: DB-VRX Column diameter: 0.25

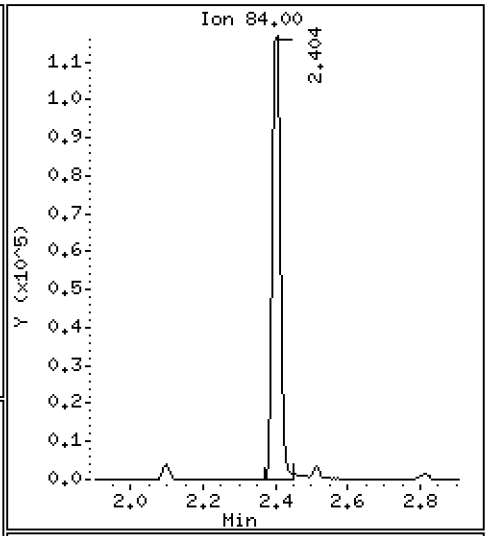
17 Methylene Chloride Concentration: 20.8859 ug/L

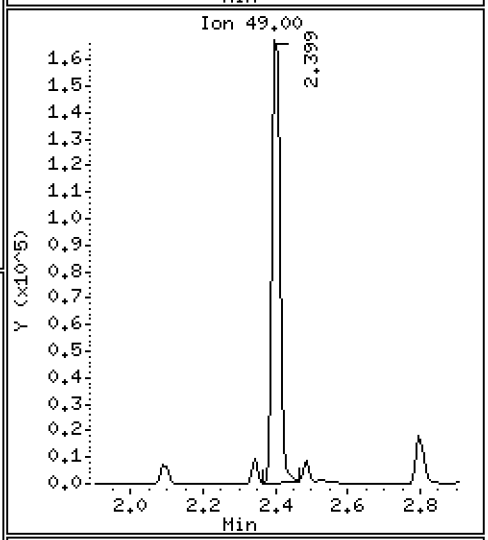


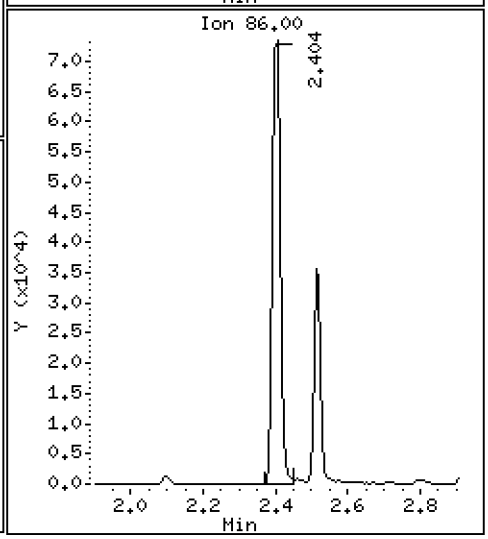












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 30

Date : 26-OCT-2016 07:30

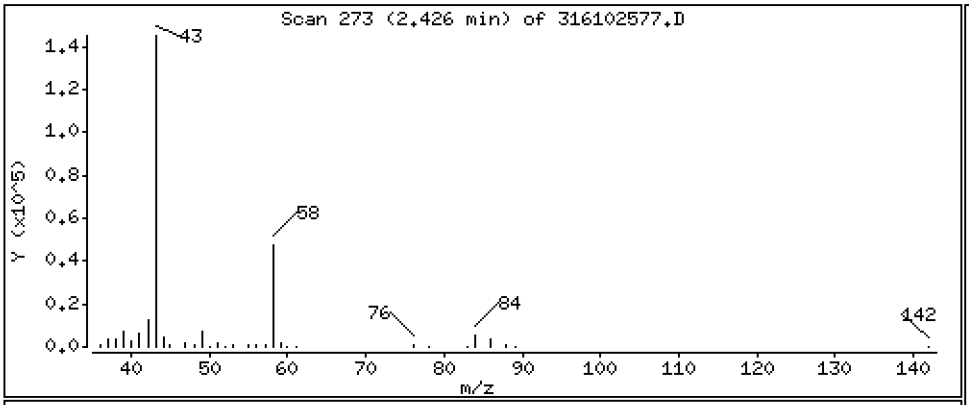
Client ID: 2184163001MS Instrument: ms03.i

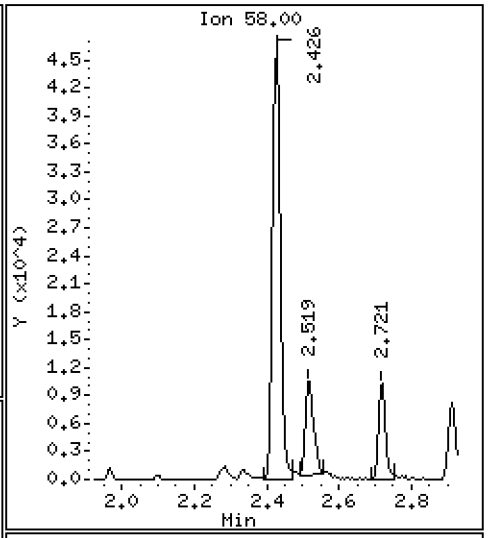
Sample Info: 2429373;;1;3;;MS;1;

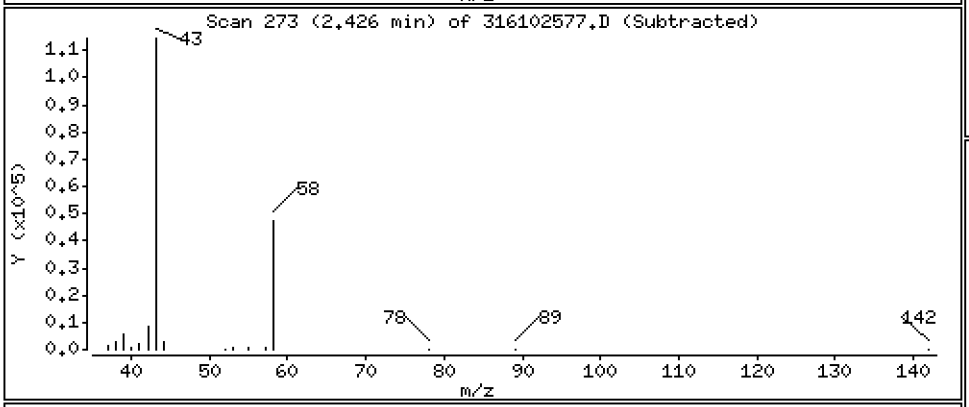
Purge Volume: 5.0 Operator: CJG

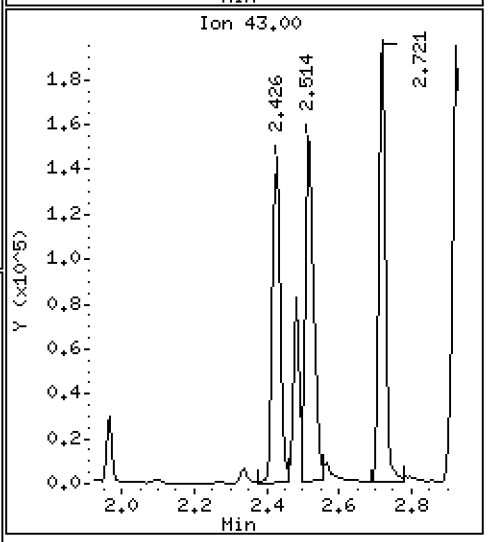
Column phase: DB-VRX Column diameter: 0.25

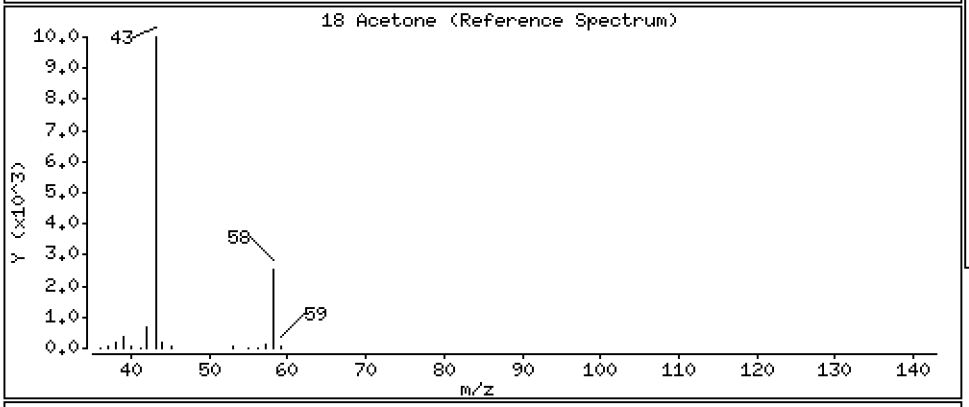
18 Acetone Concentration: 106.509 ug/L

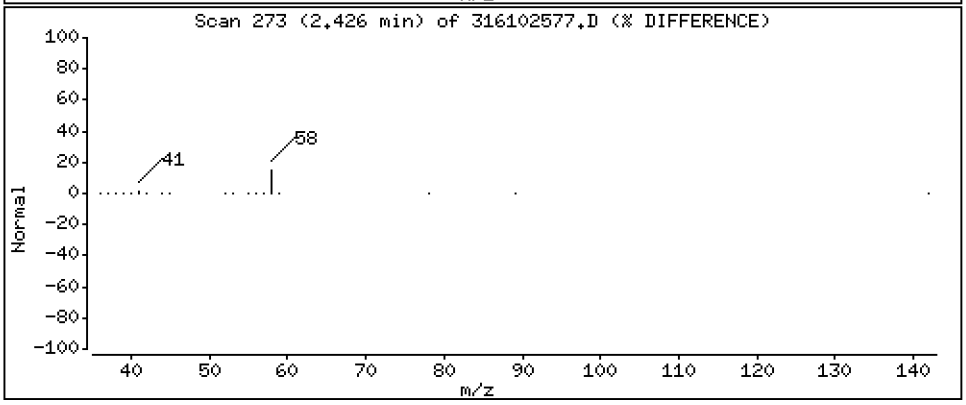












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 31

Date : 26-OCT-2016 07:30

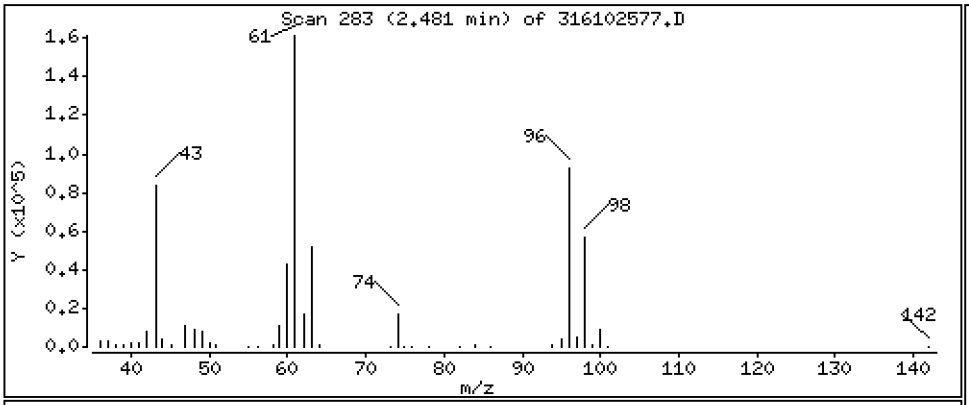
Client ID: 2184163001MS Instrument: ms03.i

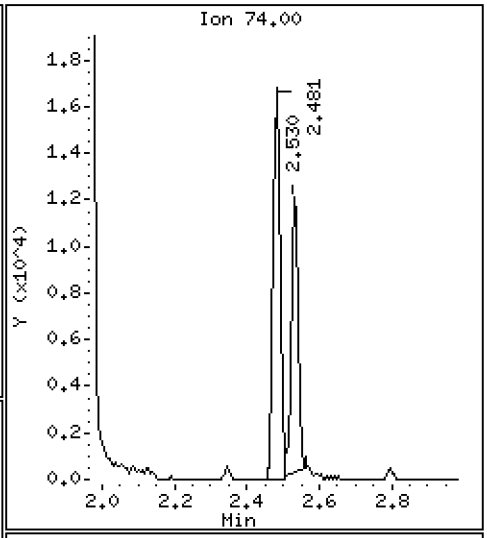
Sample Info: 2429373;;1;3;;MS;1;

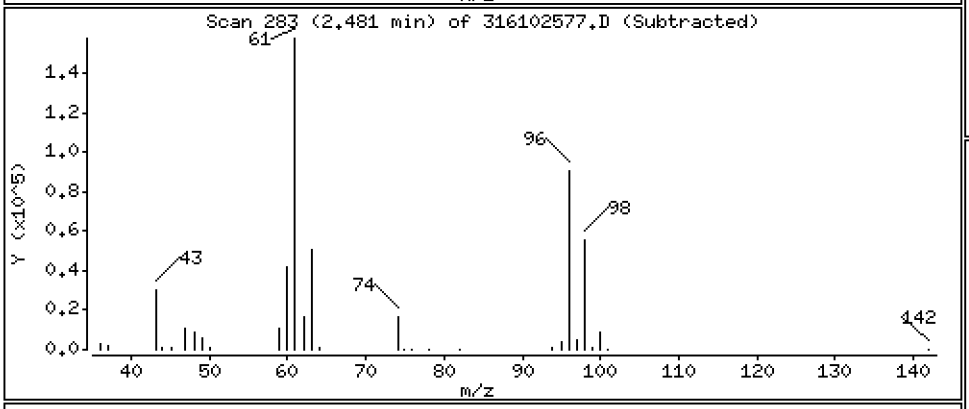
Purge Volume: 5.0 Operator: CJG

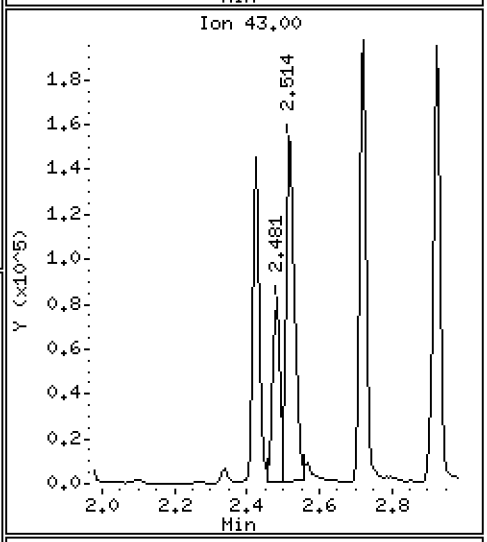
Column phase: DB-VRX Column diameter: 0.25

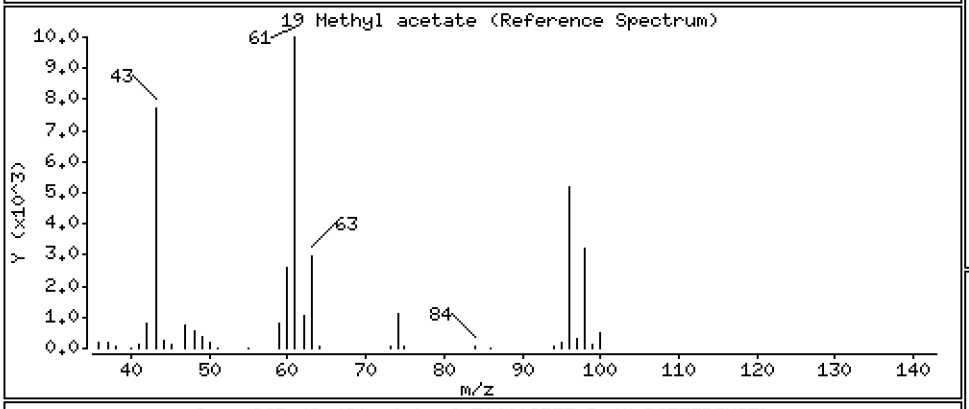
19 Methyl acetate Concentration: 17.2749 ug/L

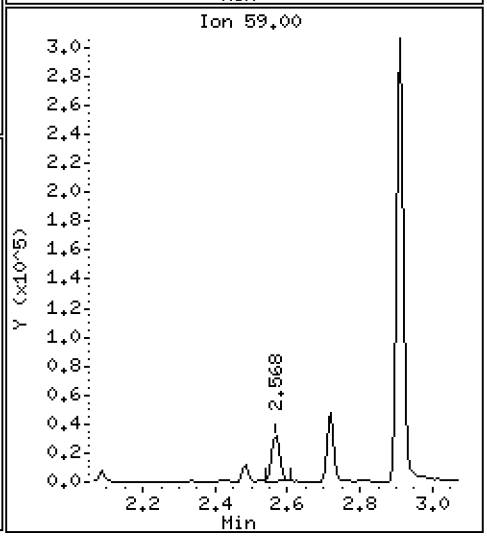


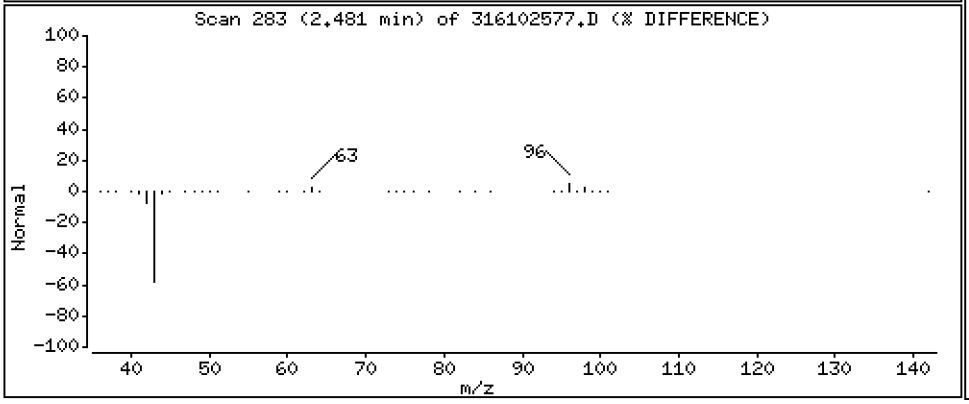












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 32

Date : 26-OCT-2016 07:30

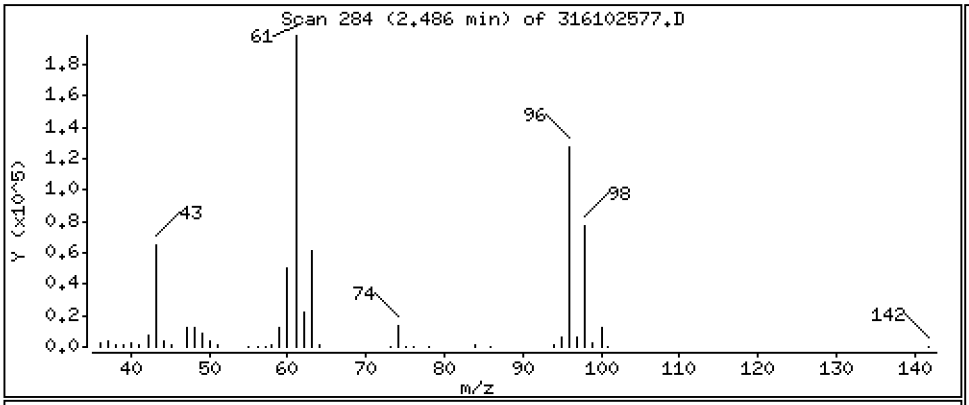
Client ID: 2184163001MS Instrument: ms03.i

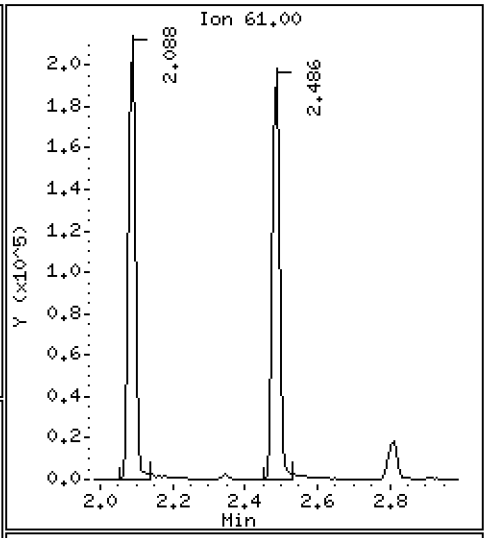
Sample Info: 2429373;;1;3;;MS;1;

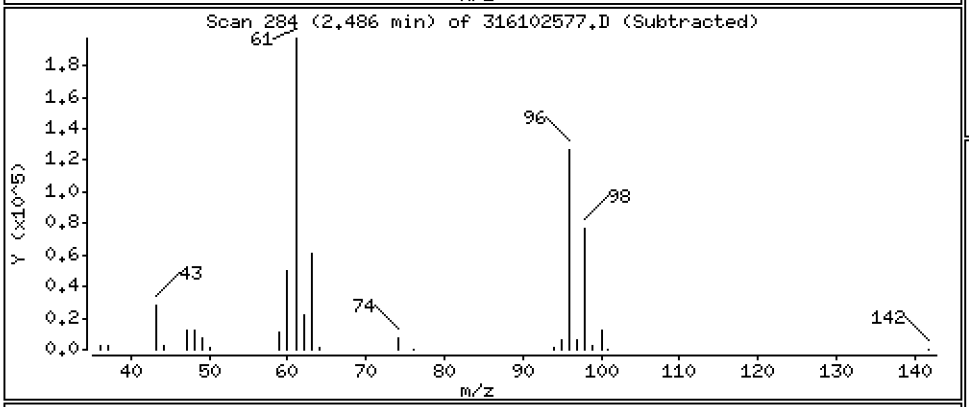
Purge Volume: 5.0 Operator: CJG

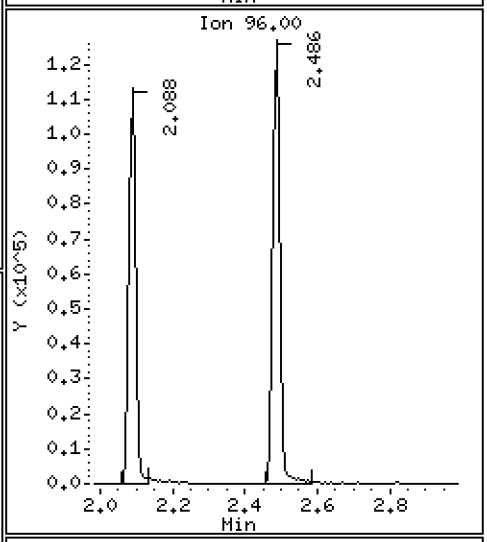
Column phase: DB-VRX Column diameter: 0.25

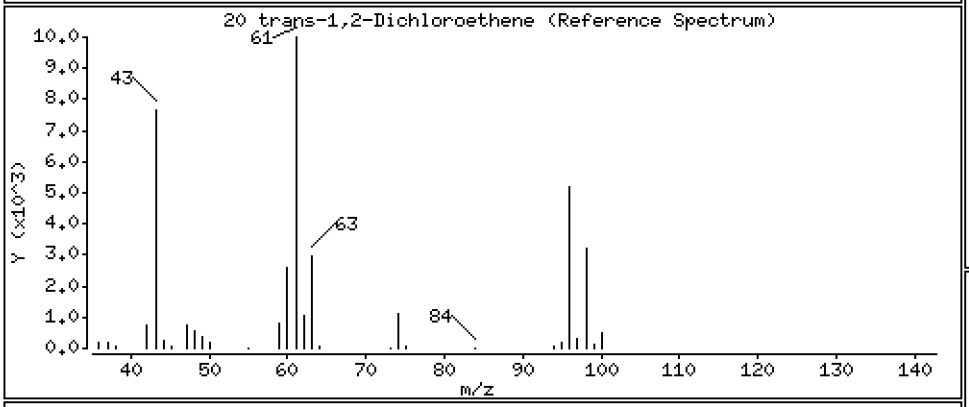
20 trans-1,2-Dichloroethene Concentration: 21.7353 ug/L

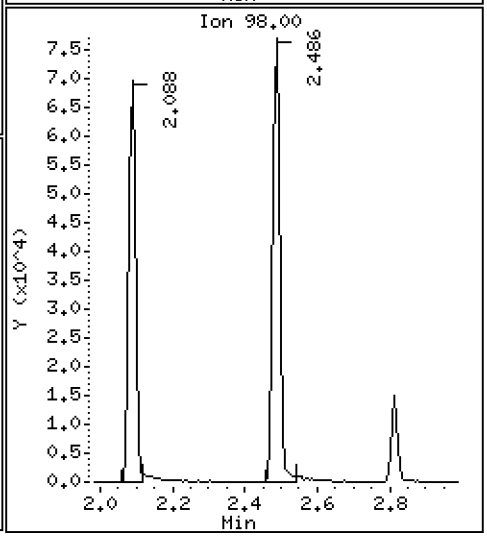


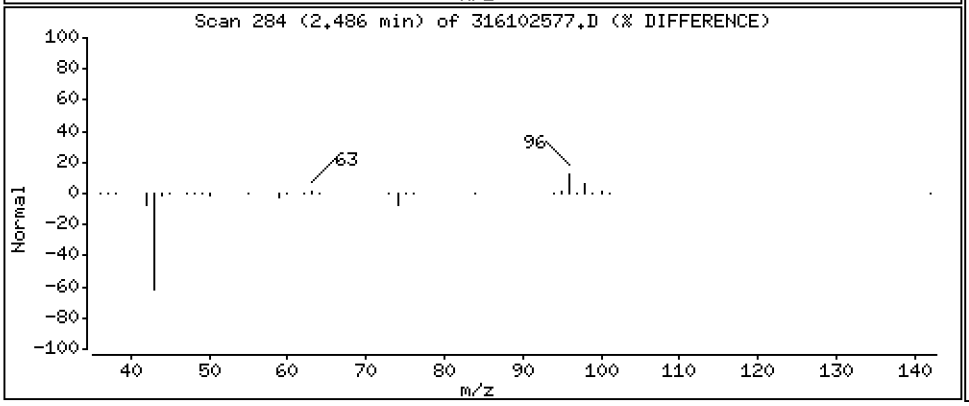












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 33

Date : 26-OCT-2016 07:30

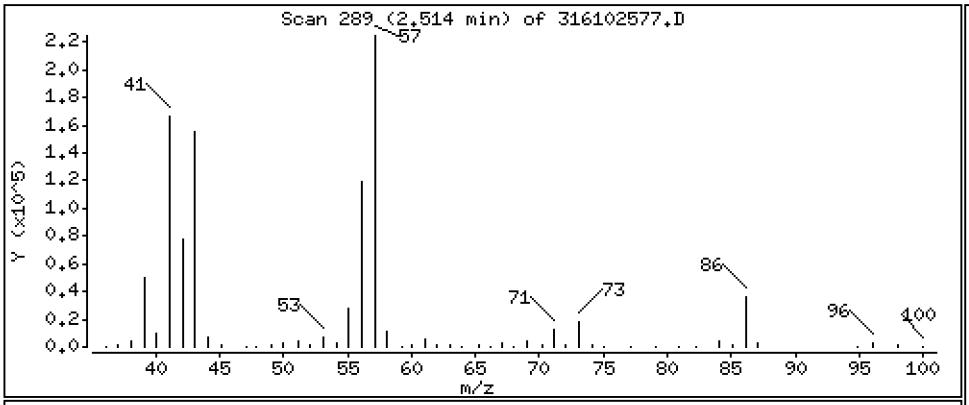
Client ID: 2184163001MS Instrument: ms03.i

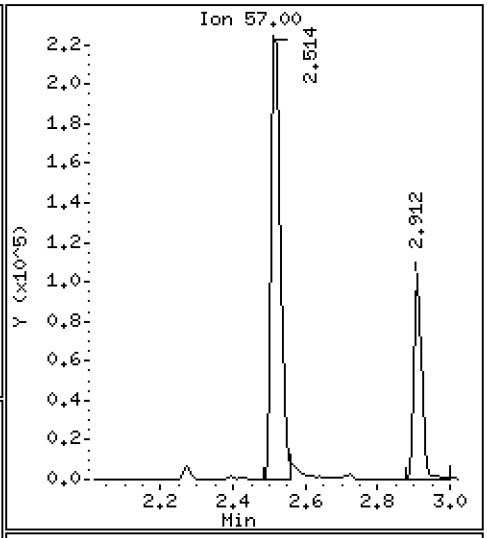
Sample Info: 2429373;;1;3;;MS;1;

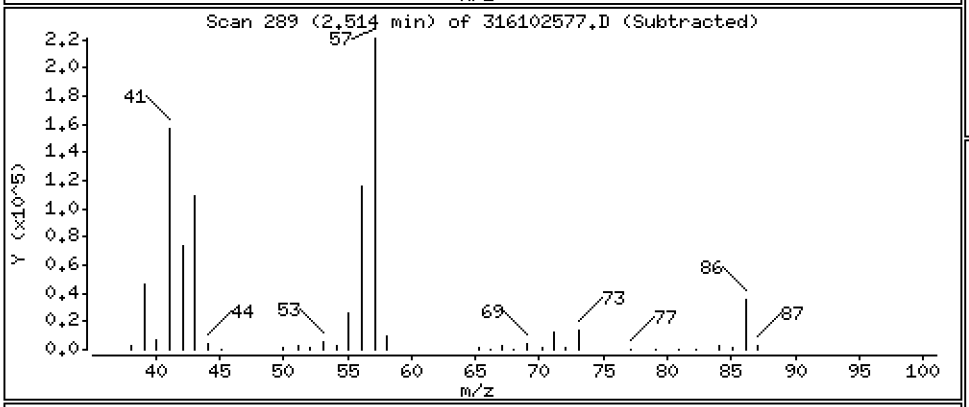
Purge Volume: 5.0 Operator: CJG

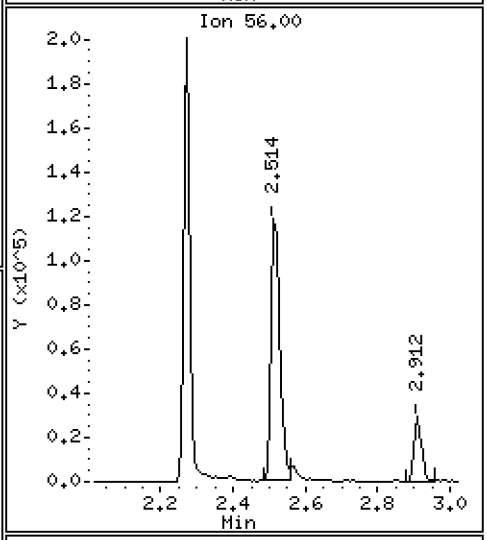
Column phase: DB-VRX Column diameter: 0.25

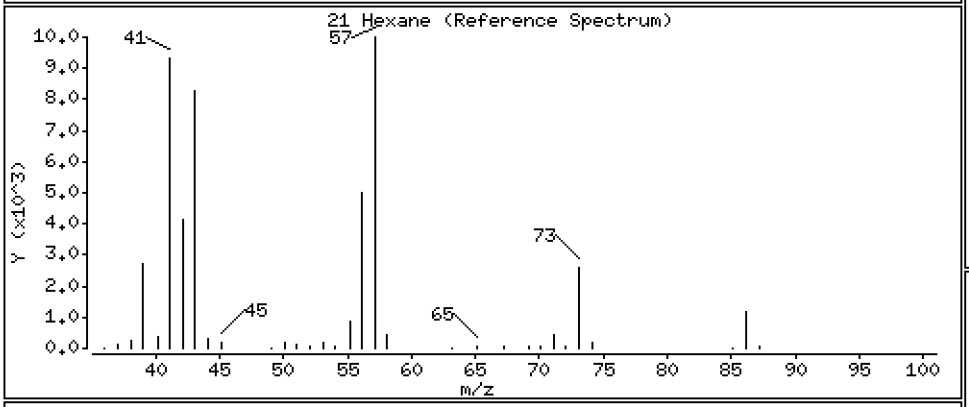
21 Hexane Concentration: 23.3977 ug/L

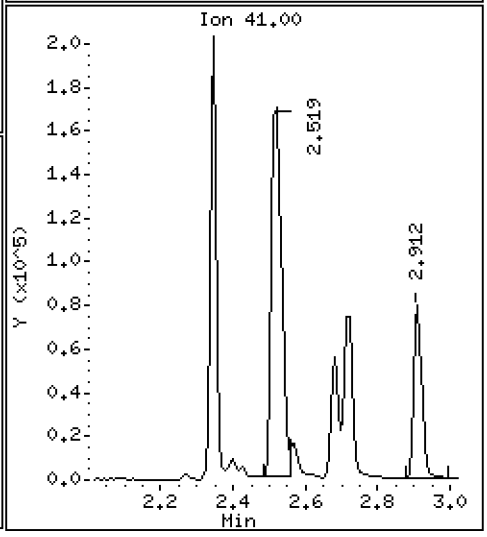


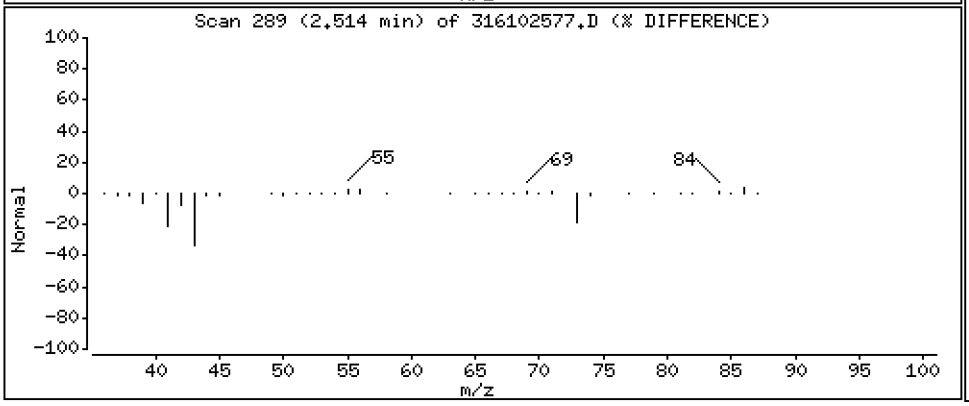












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 34

Date : 26-OCT-2016 07:30

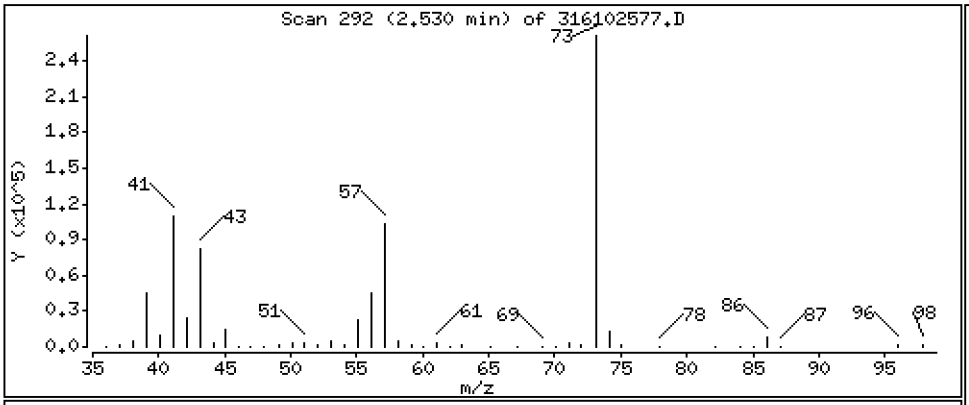
Client ID: 2184163001MS Instrument: ms03.i

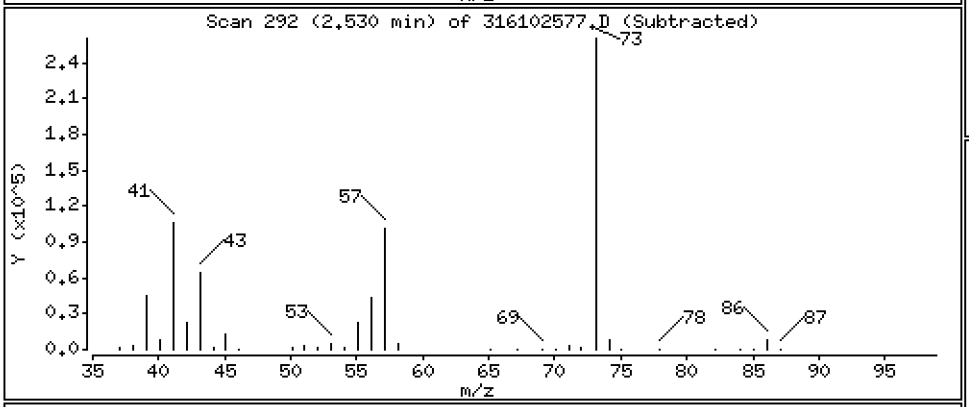
Sample Info: 2429373;;1;3;;MS;1;

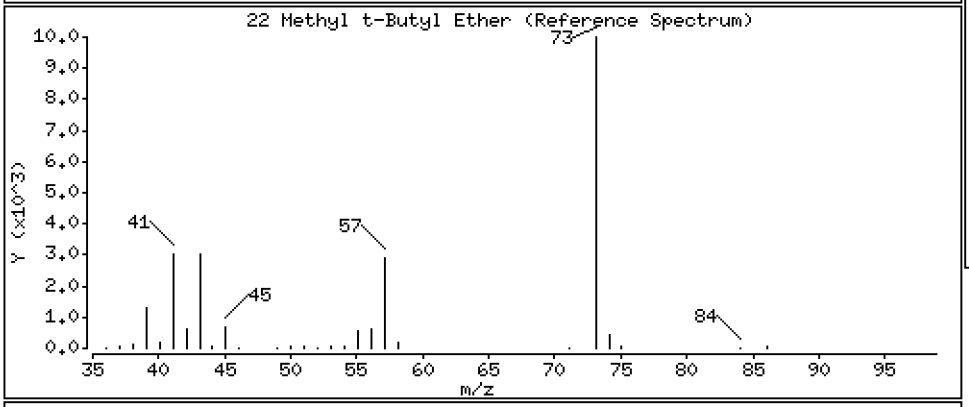
Purge Volume: 5.0 Operator: CJG

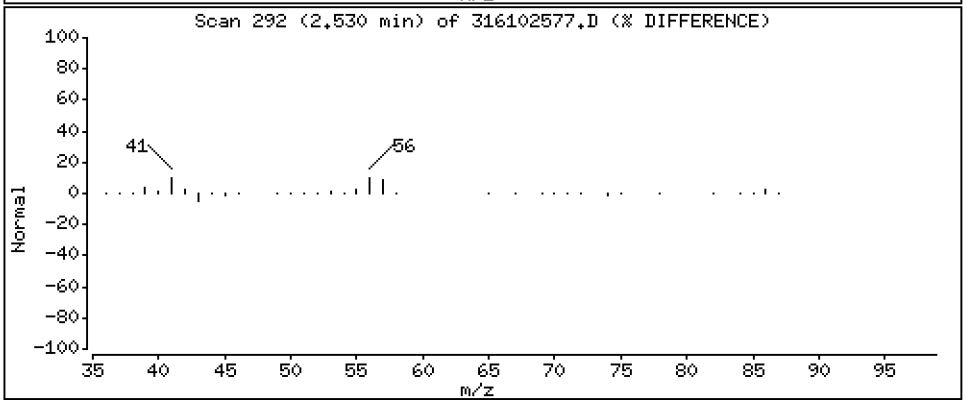
Column phase: DB-VRX Column diameter: 0.25

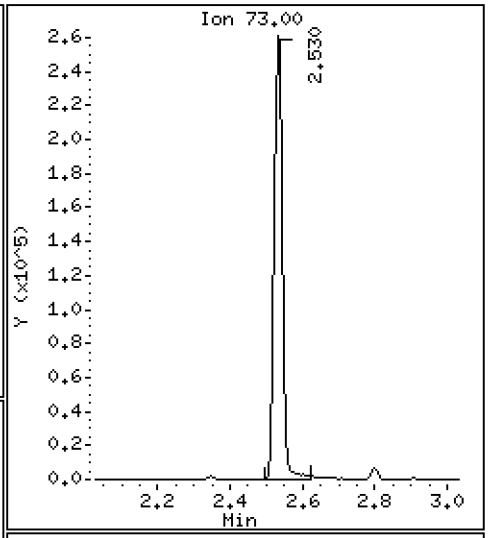
22 Methyl t-Butyl Ether Concentration: 19.6087 ug/L

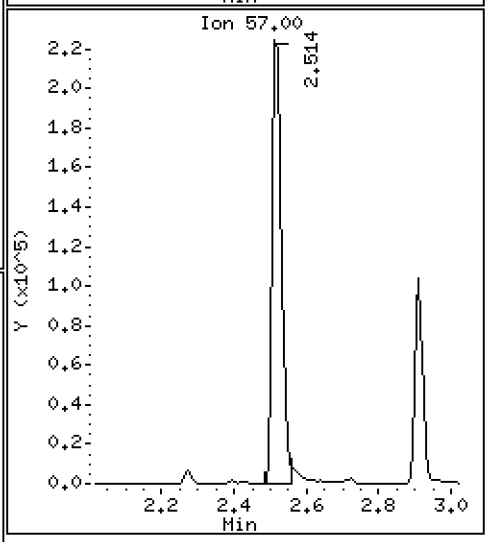












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 35

Date : 26-OCT-2016 07:30

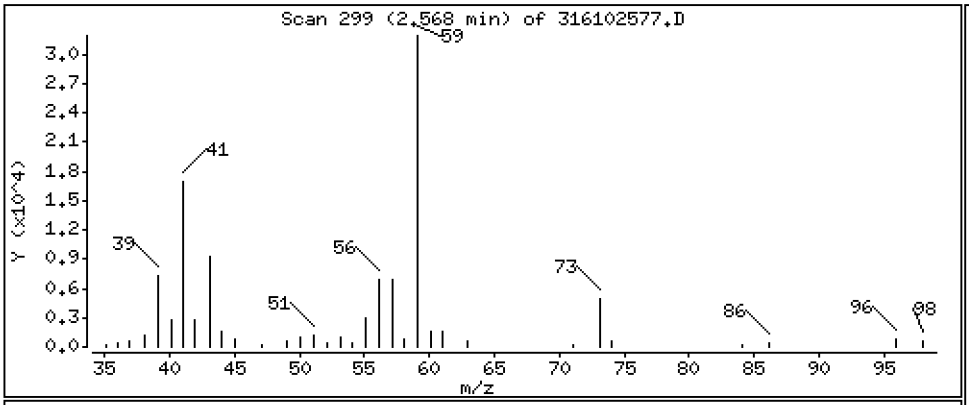
Client ID: 2184163001MS Instrument: ms03.i

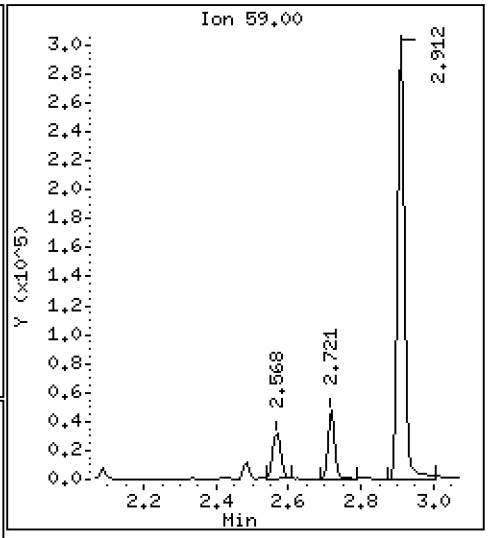
Sample Info: 2429373:1:3::MS:1:

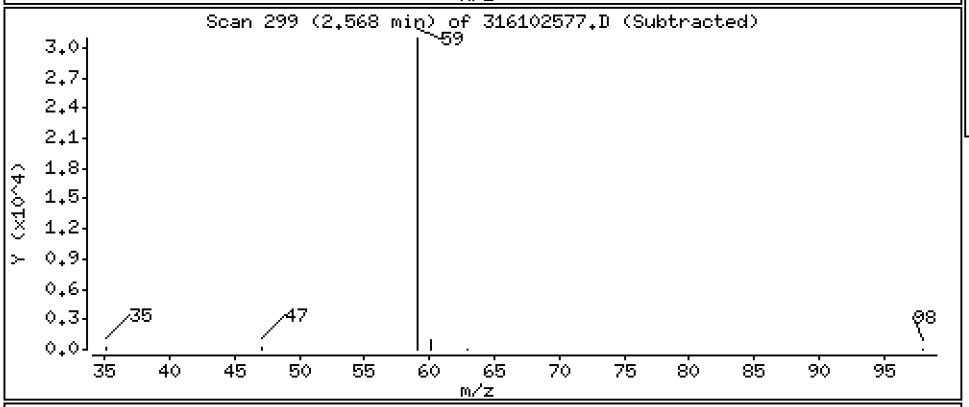
Purge Volume: 5.0 Operator: CJG

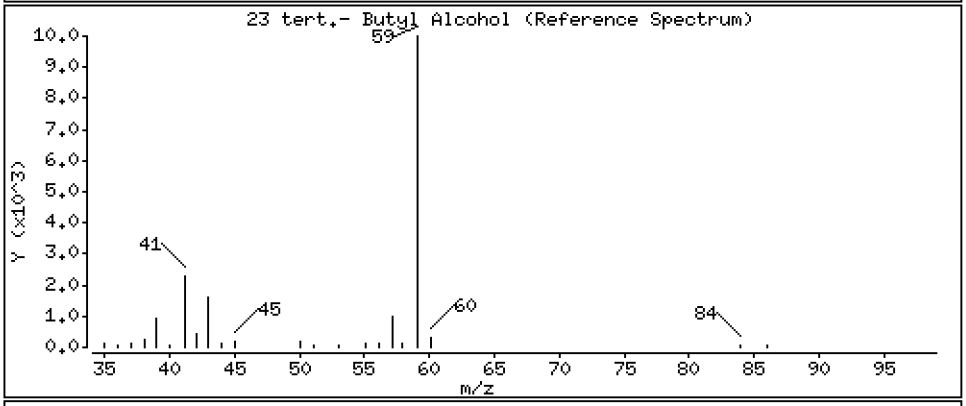
Column phase: DB-VRX Column diameter: 0.25

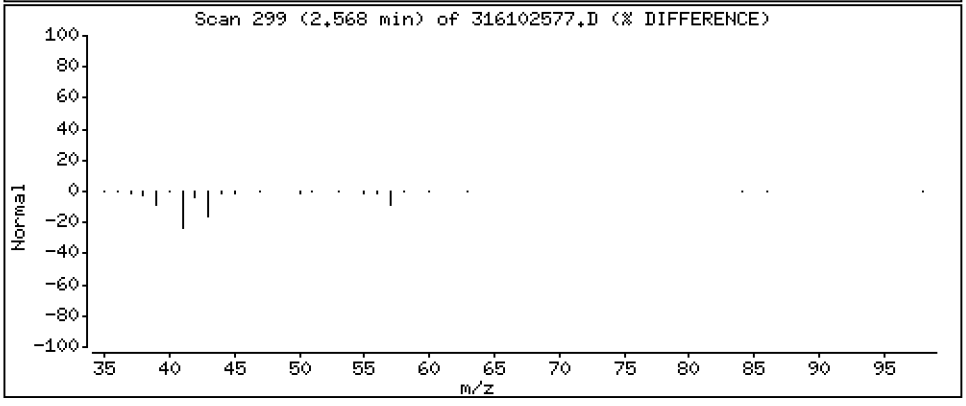
23 tert.- Butyl Alcohol Concentration: 106.462 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 36

Date : 26-OCT-2016 07:30

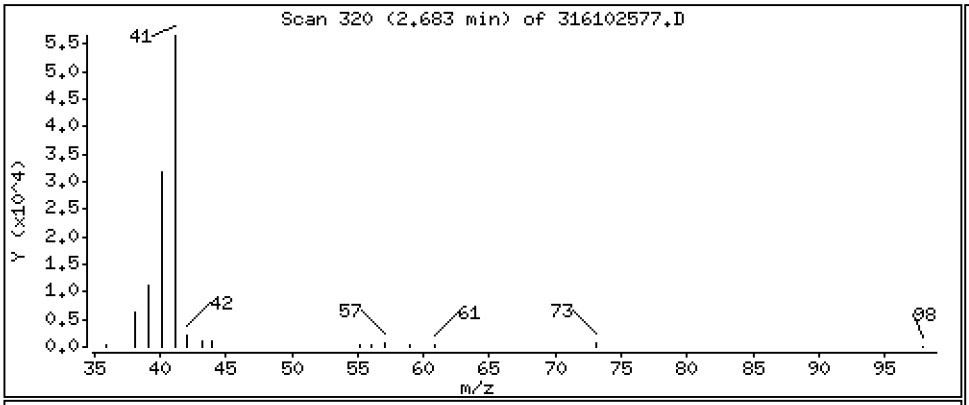
Client ID: 2184163001MS Instrument: ms03.i

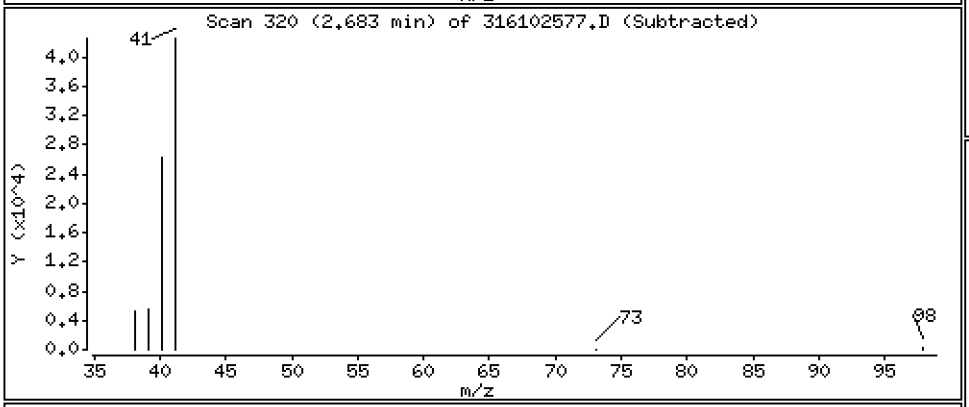
Sample Info: 2429373;;1;3;;MS;1;

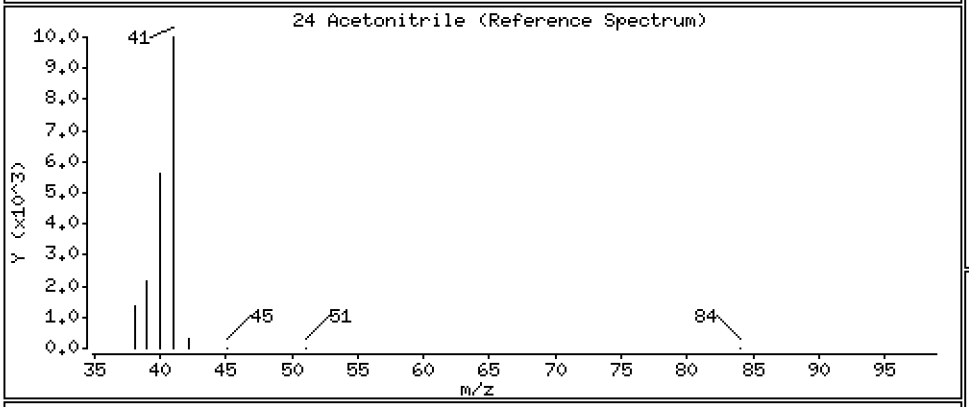
Purge Volume: 5.0 Operator: CJG

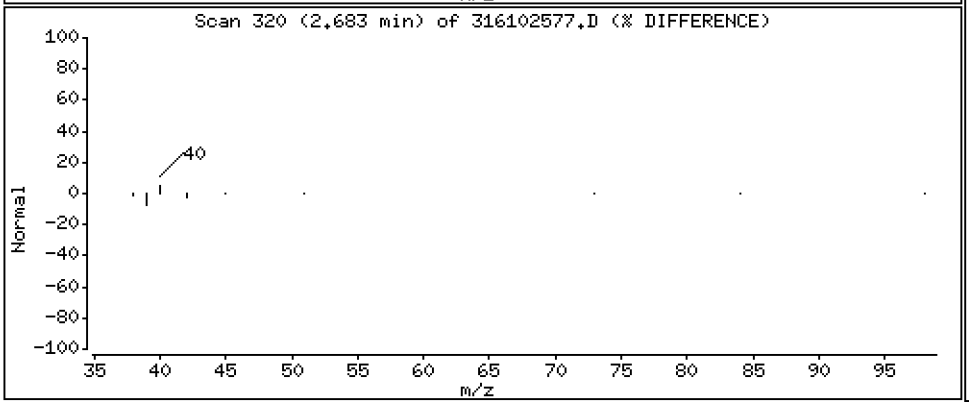
Column phase: DB-VRX Column diameter: 0.25

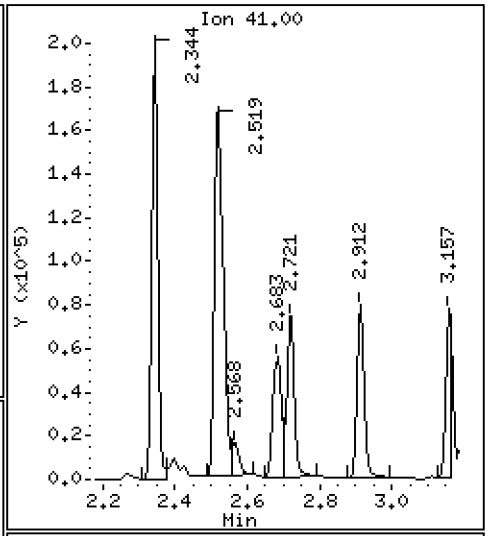
24 Acetonitrile Concentration: 134.479 ug/L

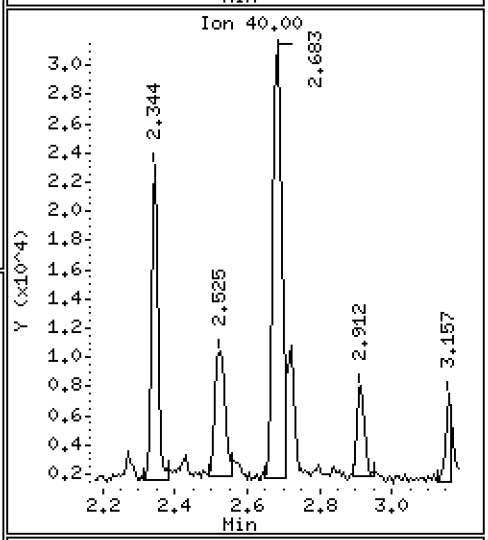


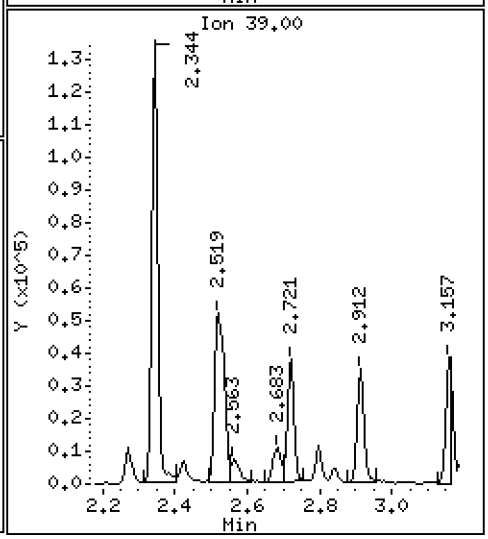












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 37

Date : 26-OCT-2016 07:30

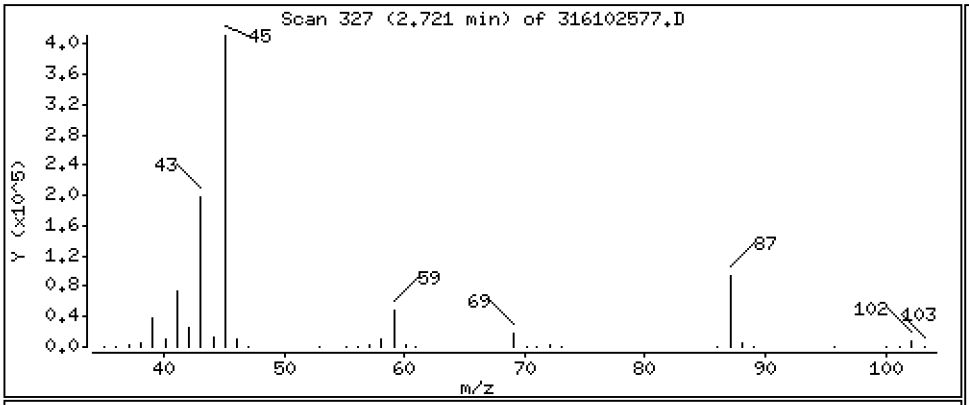
Client ID: 2184163001MS Instrument: ms03.i

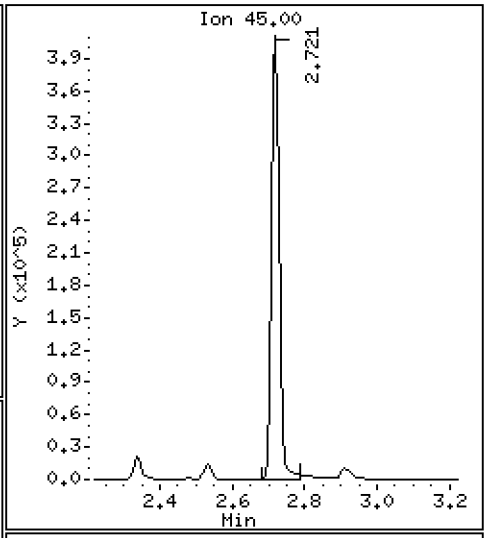
Sample Info: 2429373;;1;3;;MS;1;

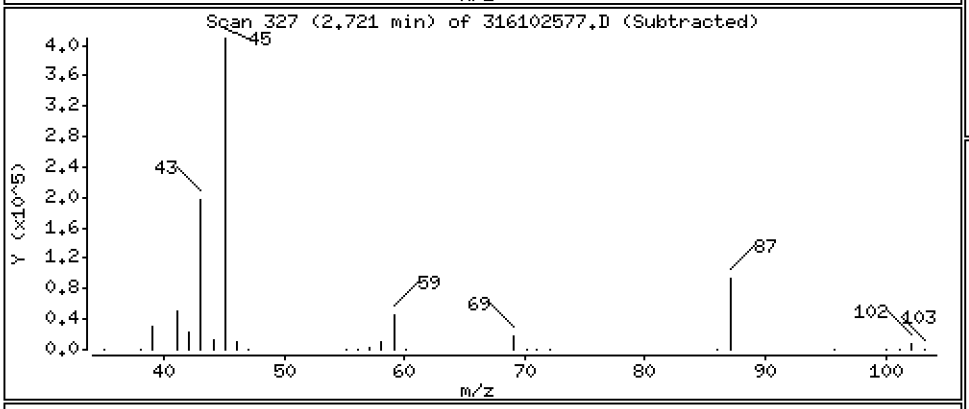
Purge Volume: 5.0 Operator: CJG

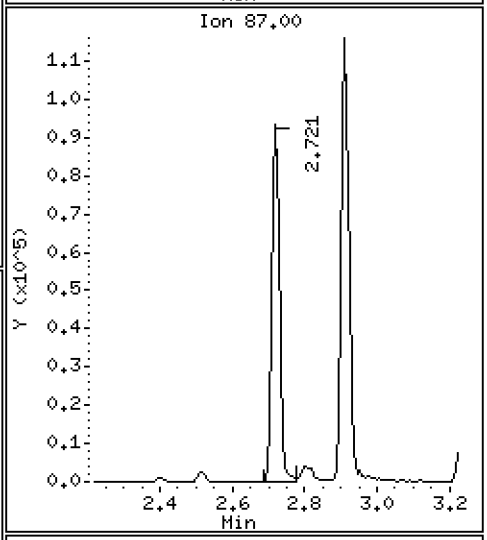
Column phase: DB-VRX Column diameter: 0.25

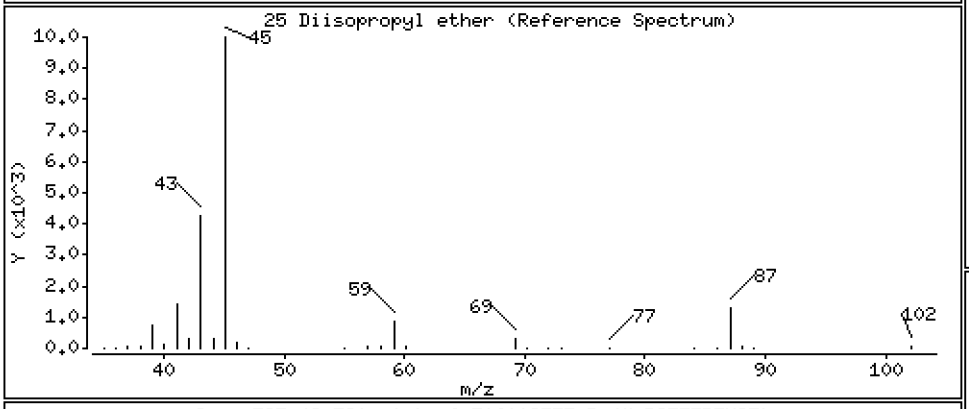
25 Diisopropyl ether Concentration: 22.2160 ug/L

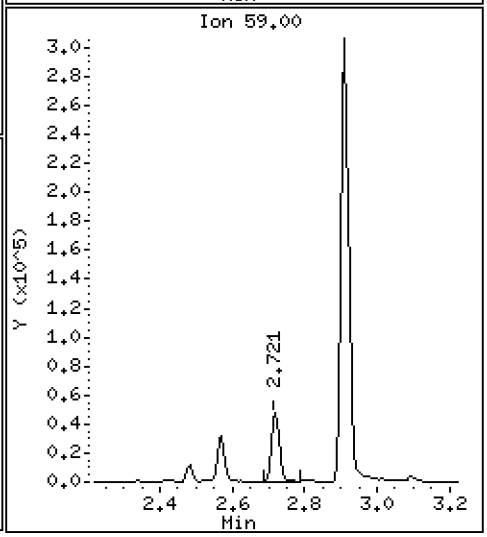


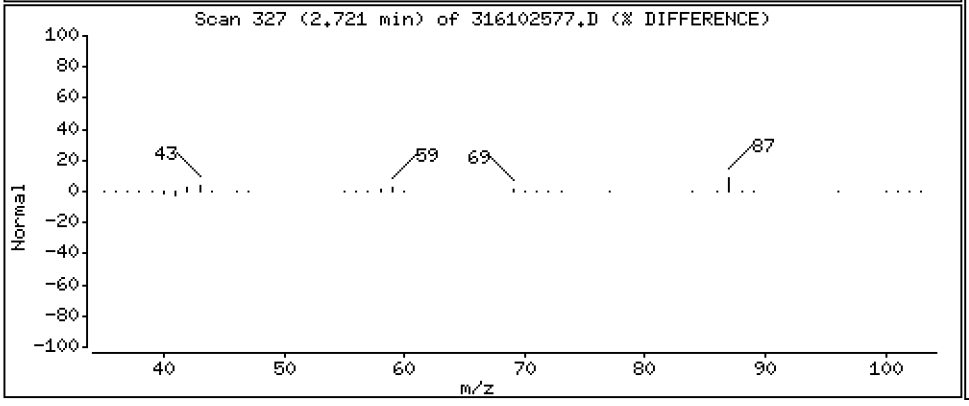












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 38

Date : 26-OCT-2016 07:30

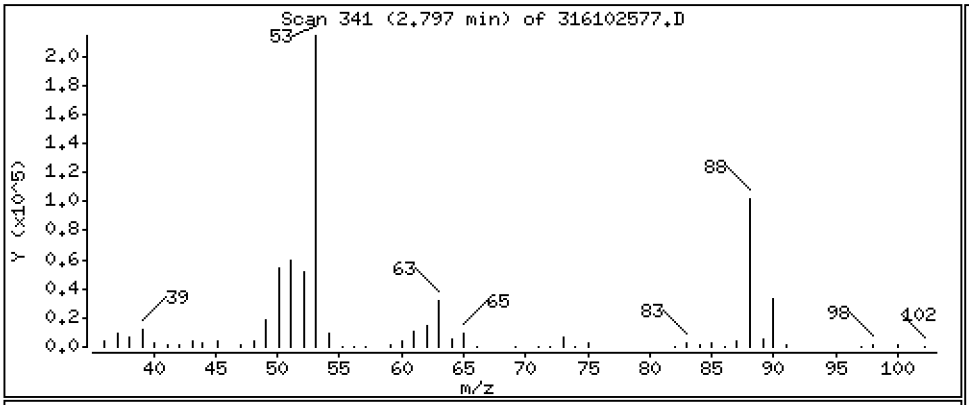
Client ID: 2184163001MS Instrument: ms03.i

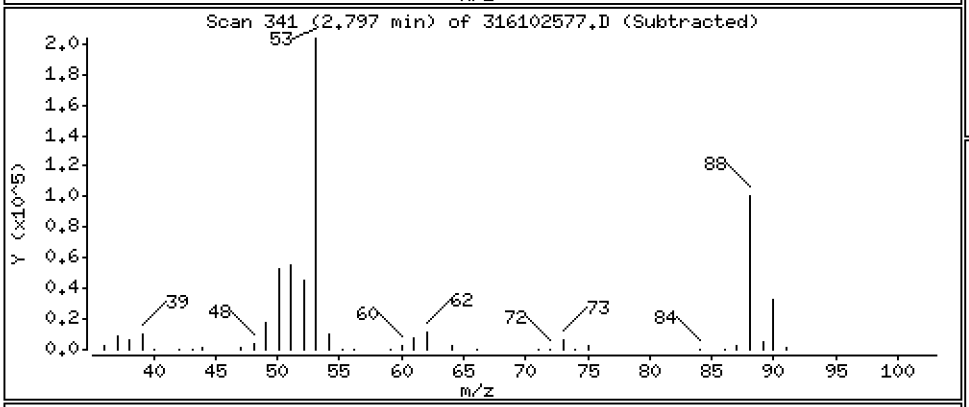
Sample Info: 2429373;;1;3;;MS;1;

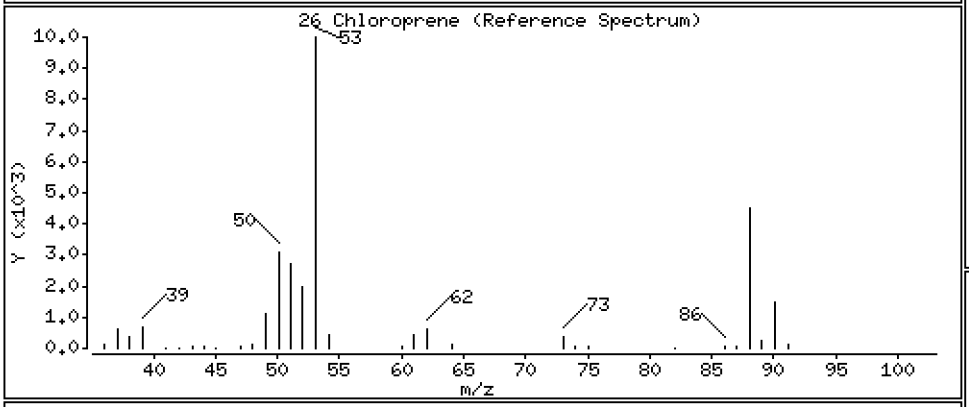
Purge Volume: 5.0 Operator: CJG

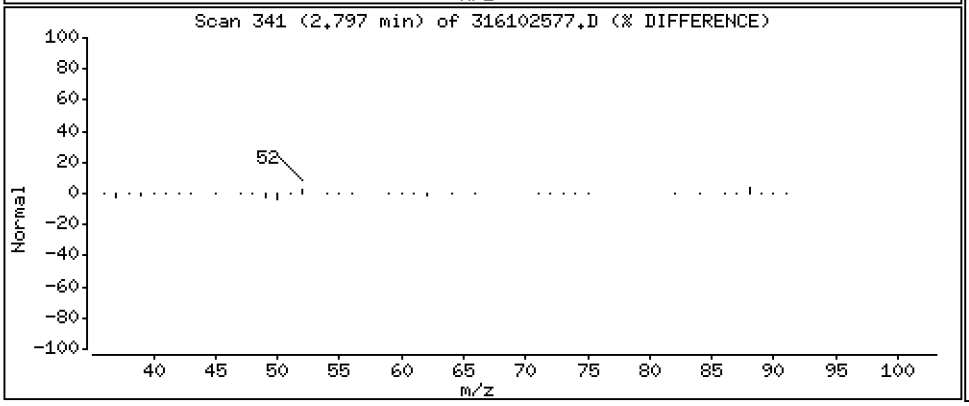
Column phase: DB-VRX Column diameter: 0.25

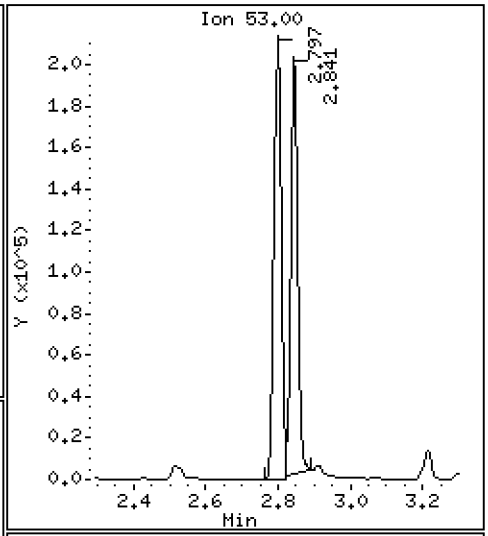
26 Chloroprene Concentration: 24.4308 ug/L

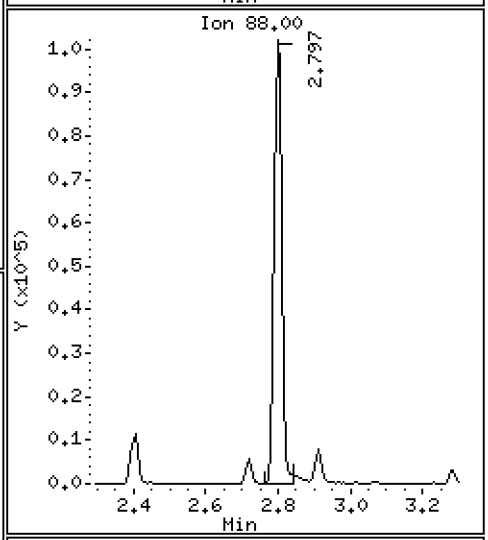


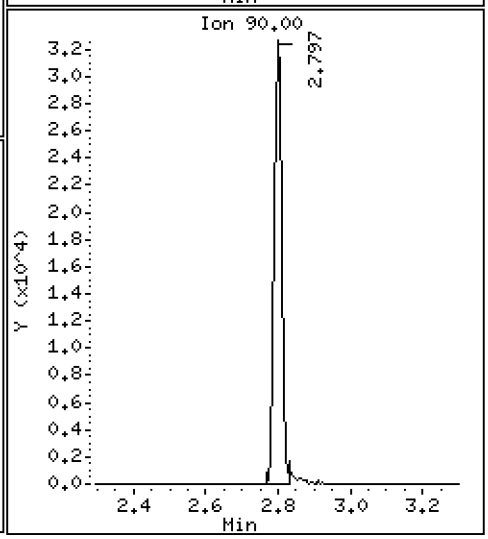












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 39

Date : 26-OCT-2016 07:30

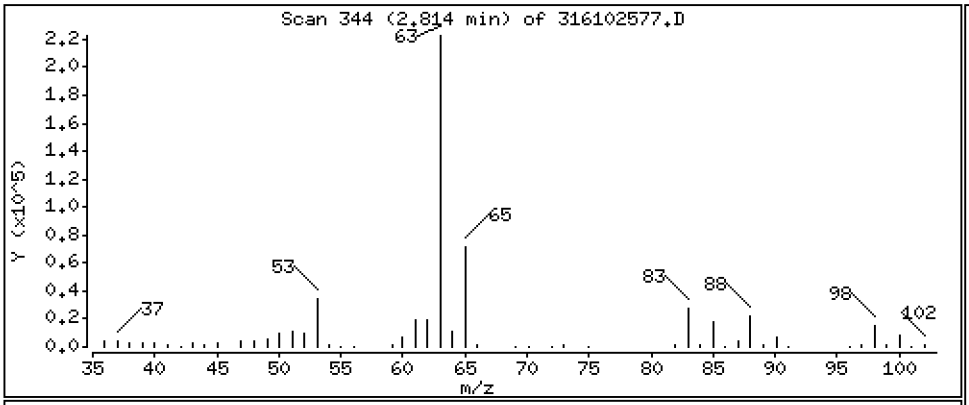
Client ID: 2184163001MS Instrument: ms03.i

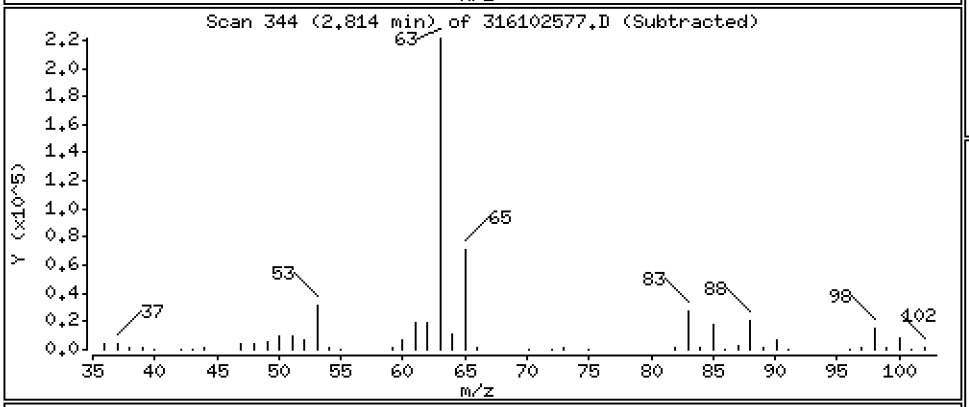
Sample Info: 2429373;;1;3;;MS;1;

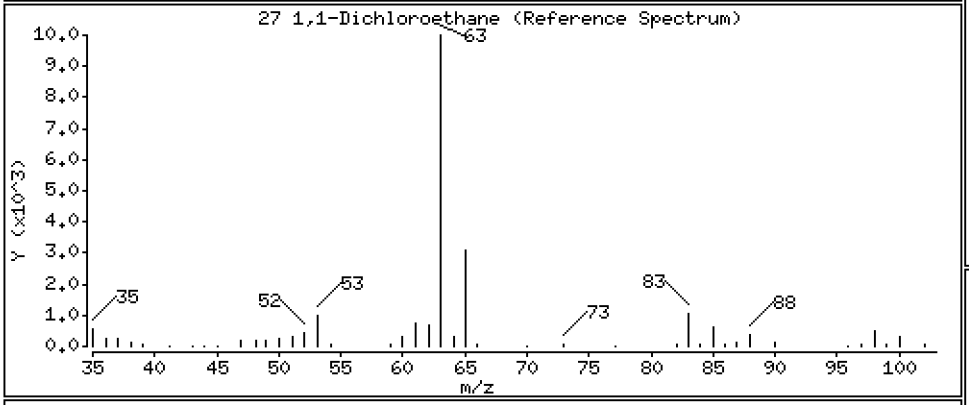
Purge Volume: 5.0 Operator: CJG

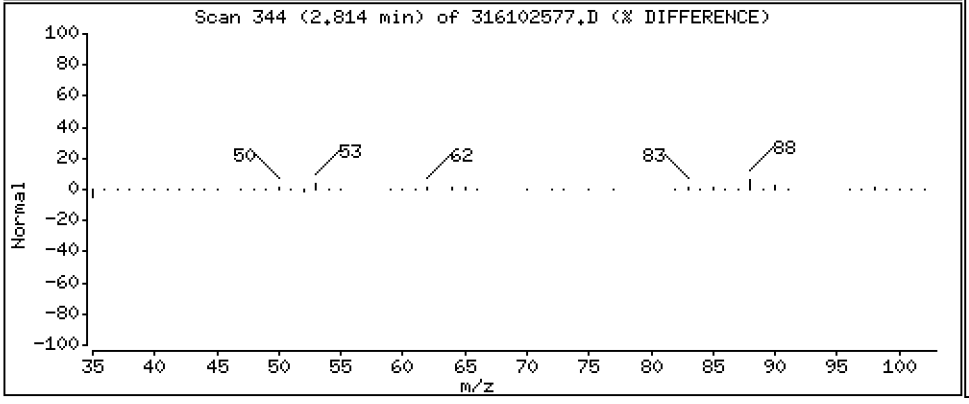
Column phase: DB-VRX Column diameter: 0.25

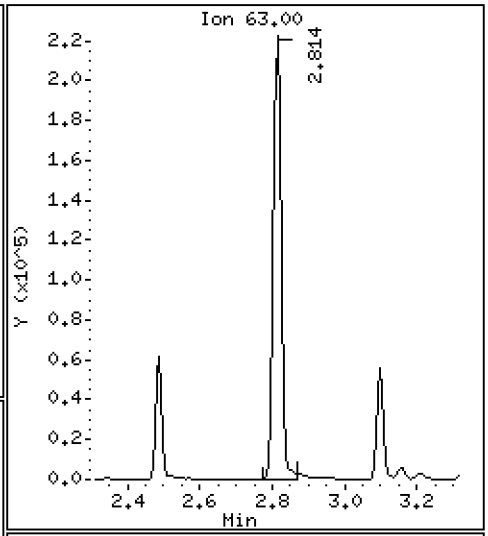
27 1,1-Dichloroethane Concentration: 21.1298 ug/L

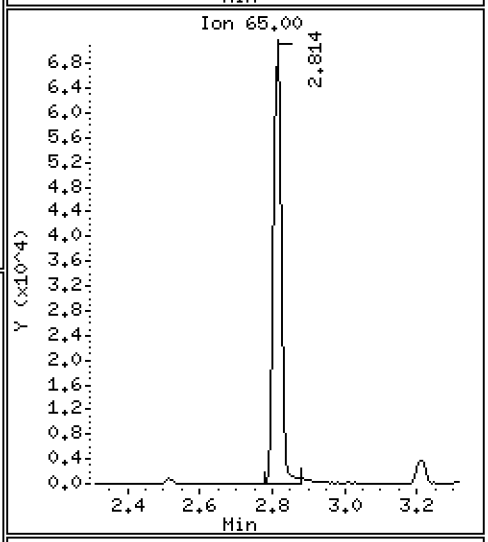


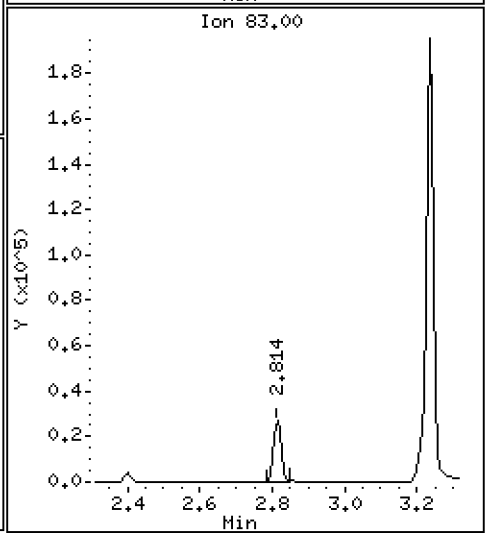












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 40

Date : 26-OCT-2016 07:30

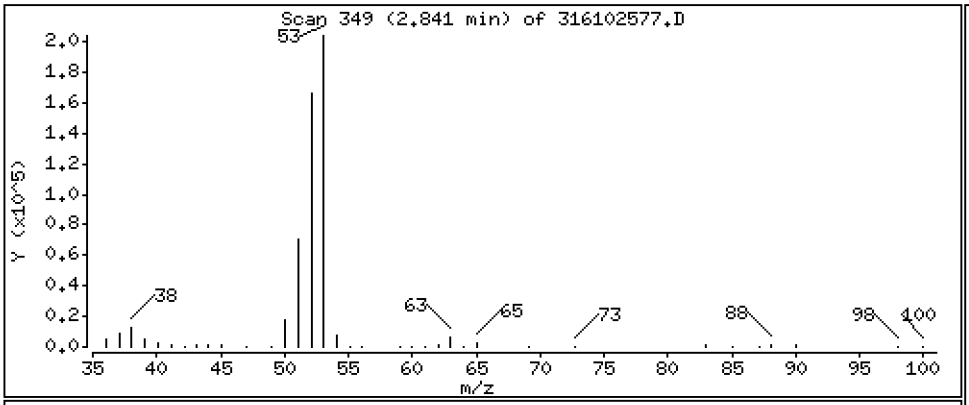
Client ID: 2184163001MS Instrument: ms03.i

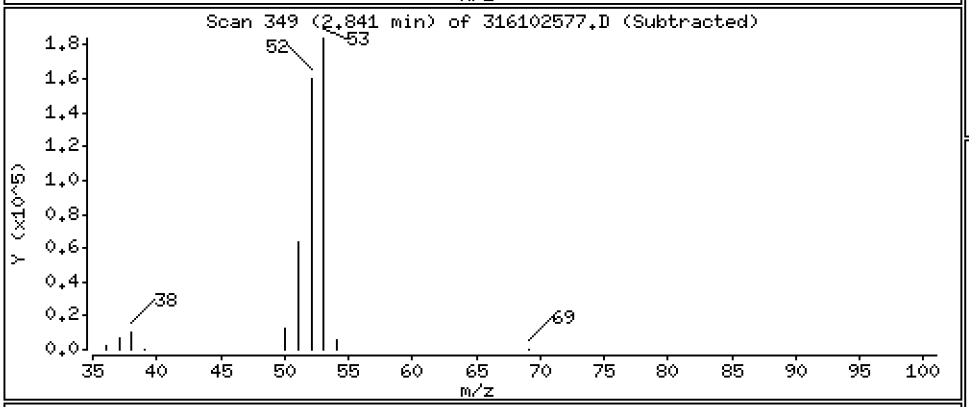
Sample Info: 2429373;;1;3;;MS;1;

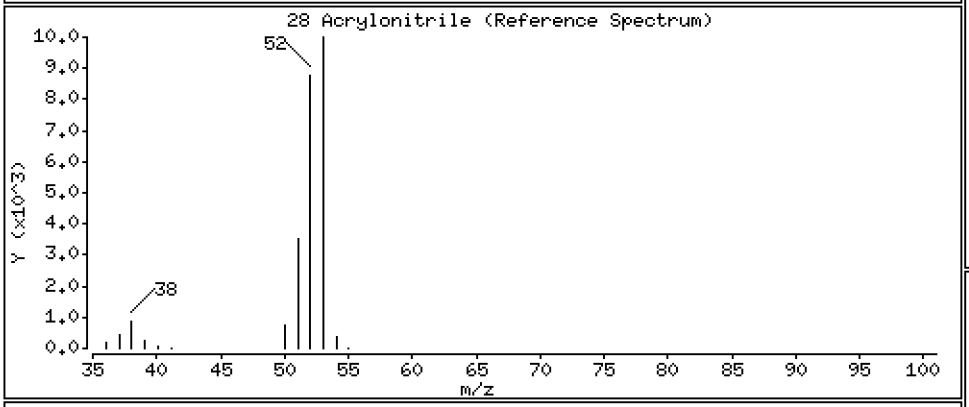
Purge Volume: 5.0 Operator: CJG

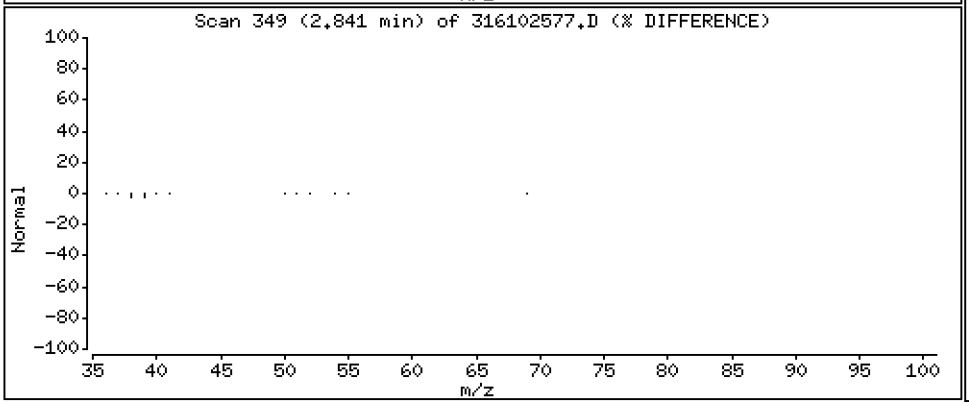
Column phase: DB-VRX Column diameter: 0.25

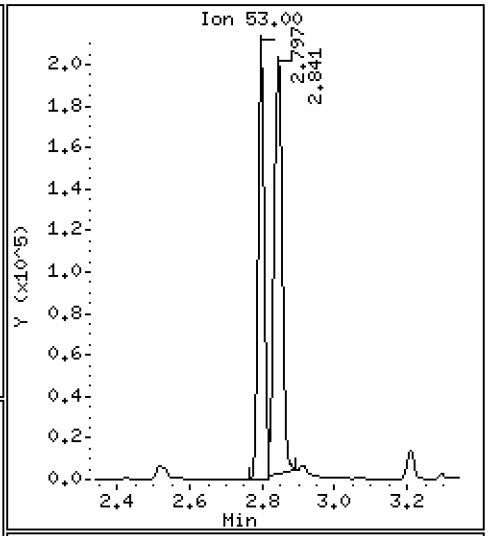
28 Acrylonitrile Concentration: 108.971 ug/L

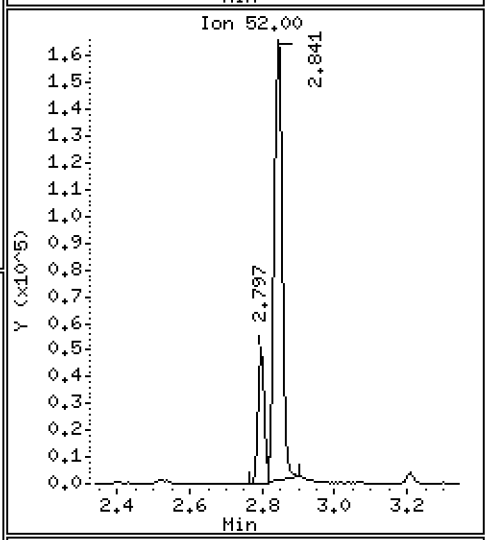


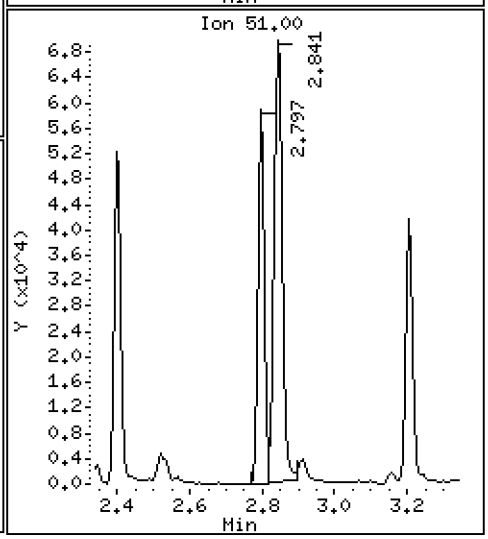












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 41

Date : 26-OCT-2016 07:30

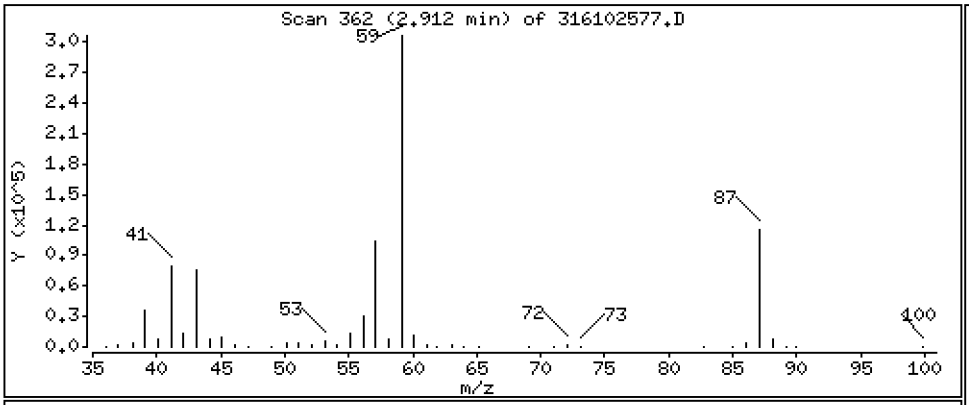
Client ID: 2184163001MS Instrument: ms03.i

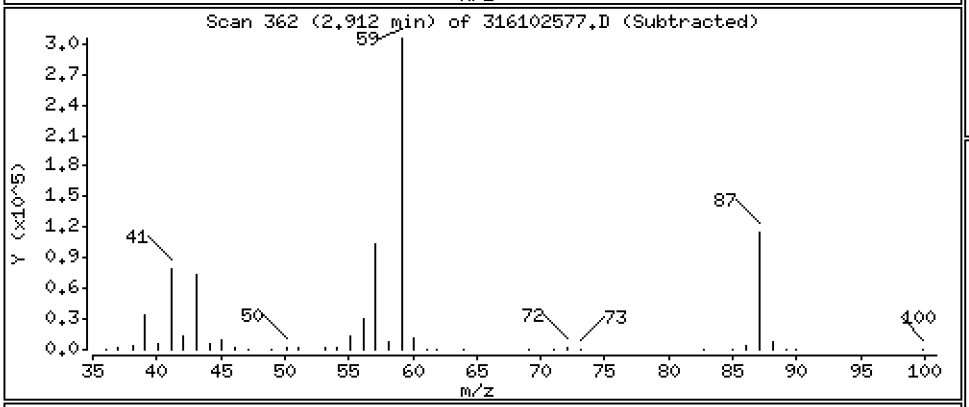
Sample Info: 2429373;;1;3;;MS;1;

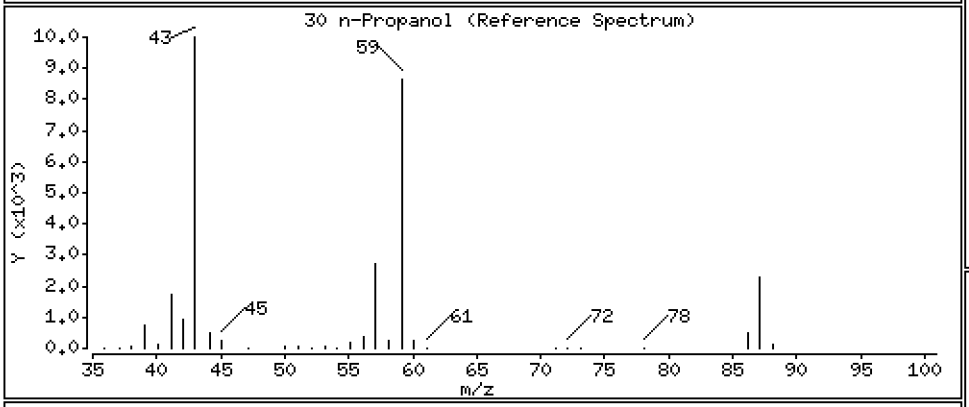
Purge Volume: 5.0 Operator: CJG

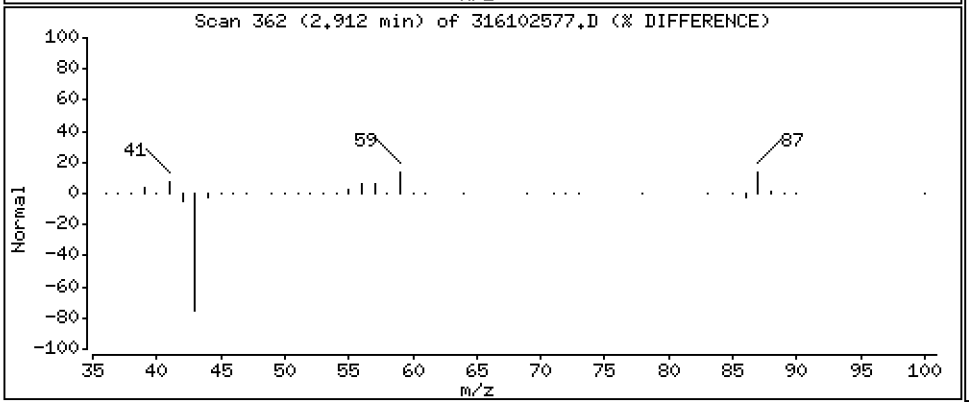
Column phase: DB-VRX Column diameter: 0.25

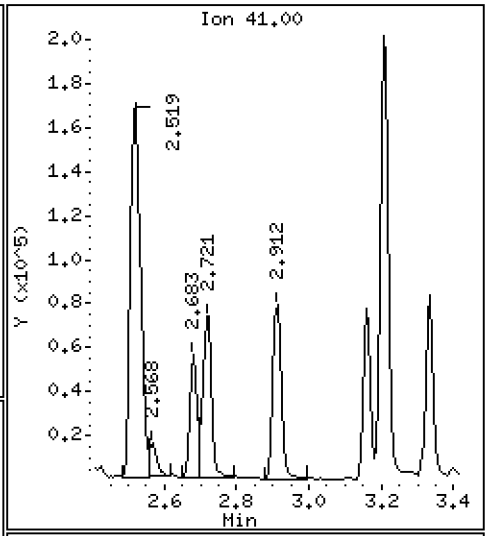
30 n-Propanol Concentration: 267.177 ug/L

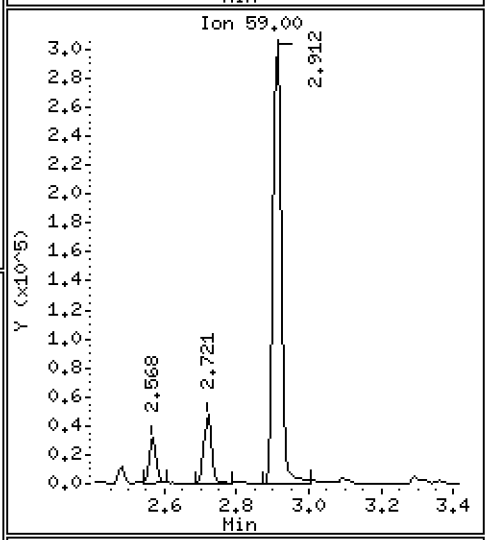


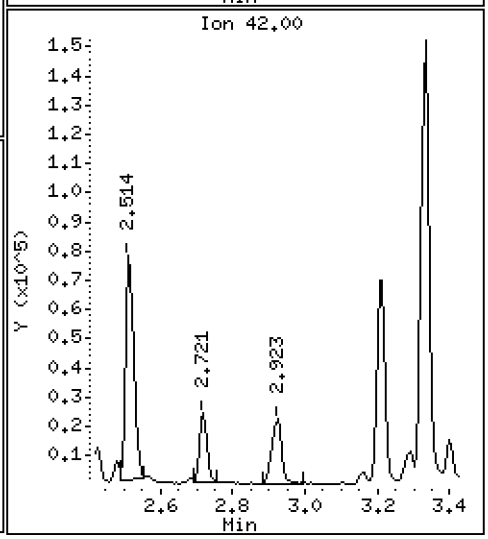












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 42

Date : 26-OCT-2016 07:30

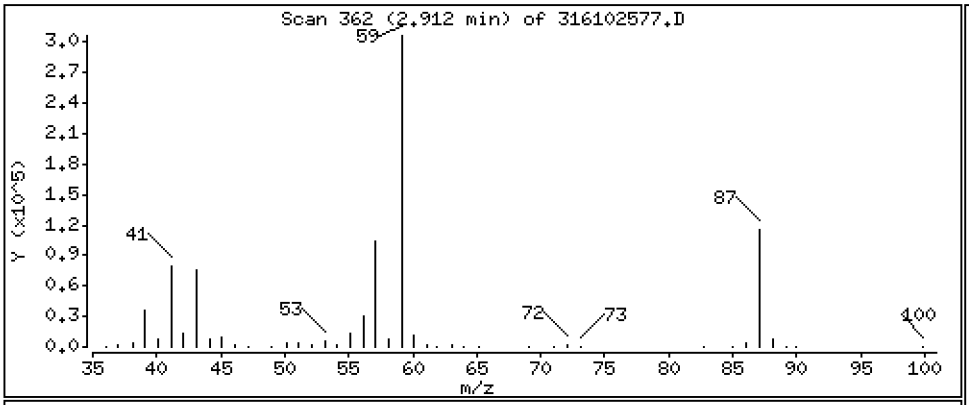
Client ID: 2184163001MS Instrument: ms03.i

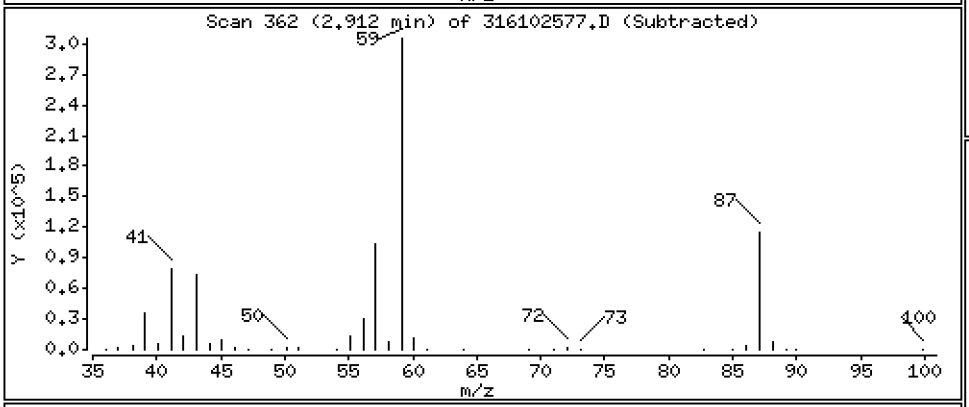
Sample Info: 2429373;;1;3;;MS;1;

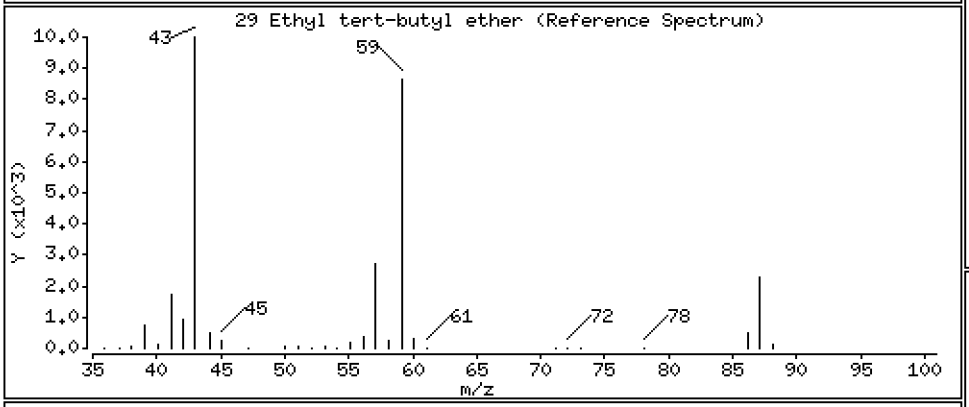
Purge Volume: 5.0 Operator: CJG

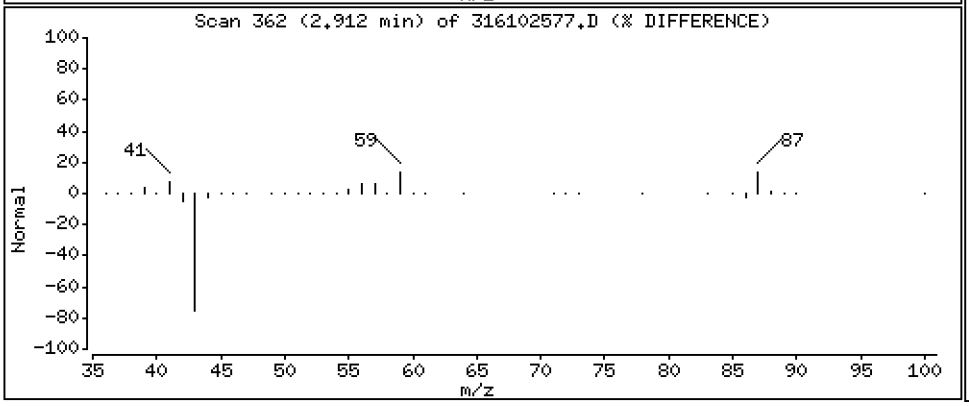
Column phase: DB-VRX Column diameter: 0.25

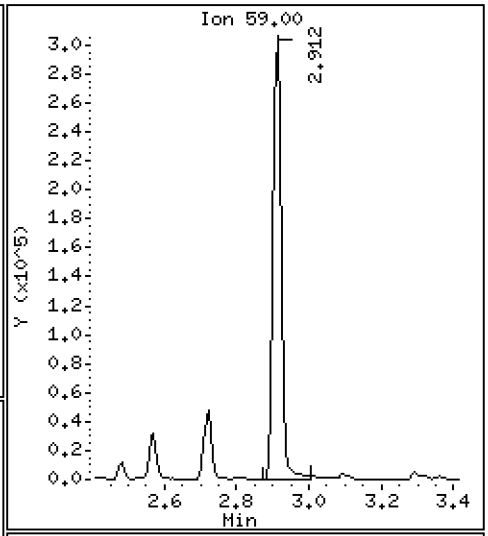
29 Ethyl tert-butyl ether Concentration: 20.7049 ug/L

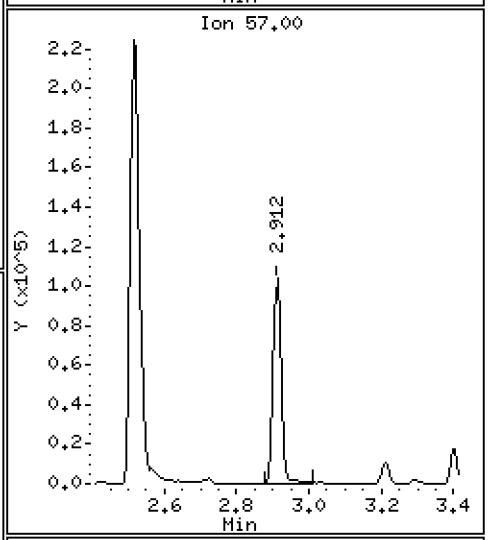


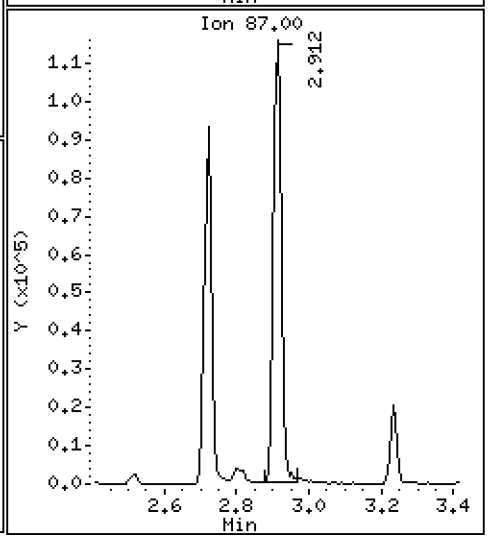












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 43

Date : 26-OCT-2016 07:30

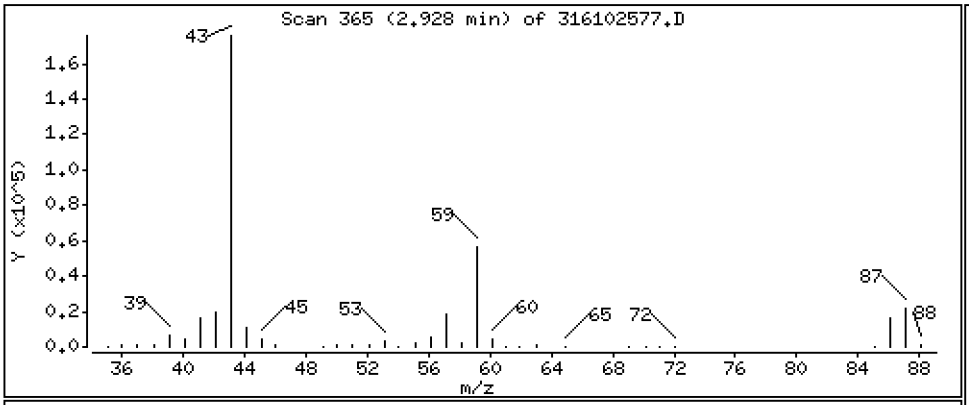
Client ID: 2184163001MS Instrument: ms03.i

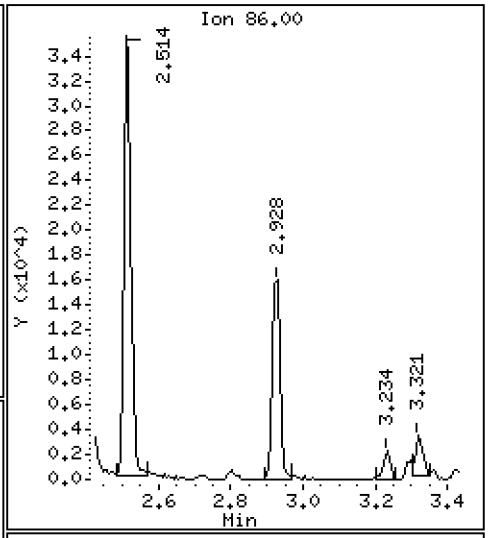
Sample Info: 2429373;;1;3;;MS;1;

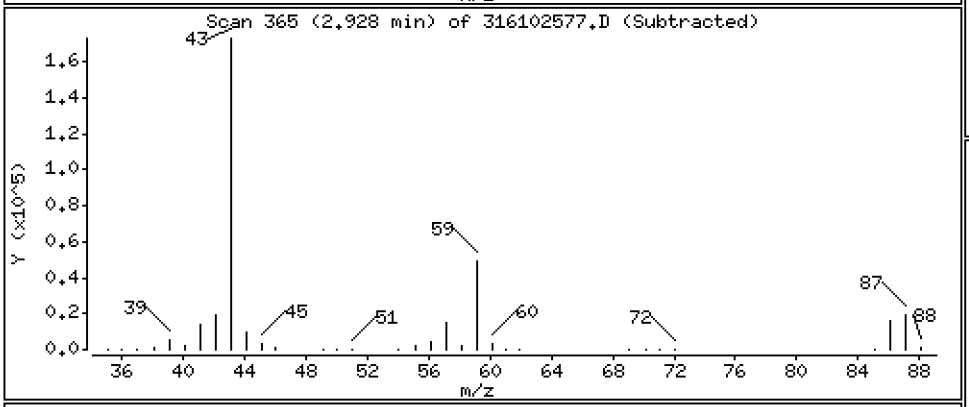
Purge Volume: 5.0 Operator: CJG

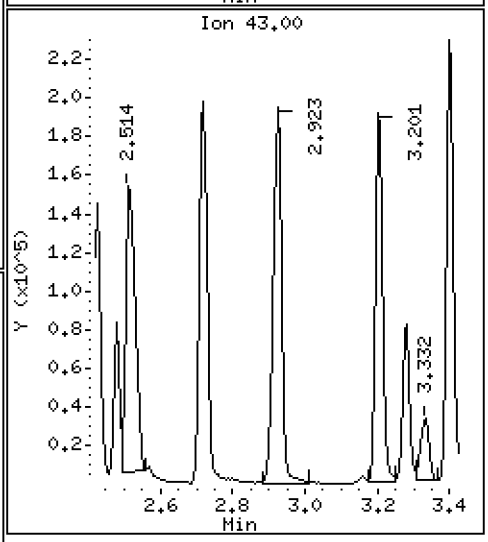
Column phase: DB-VRX Column diameter: 0.25

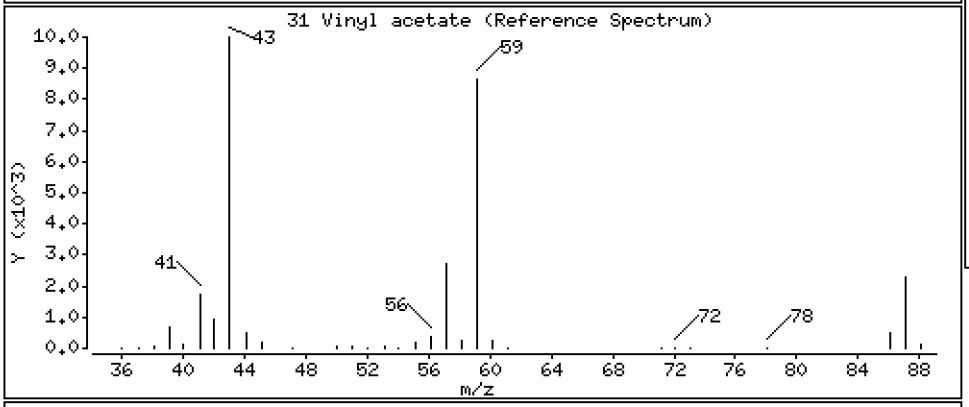
31 Vinyl acetate Concentration: 13.5279 ug/L

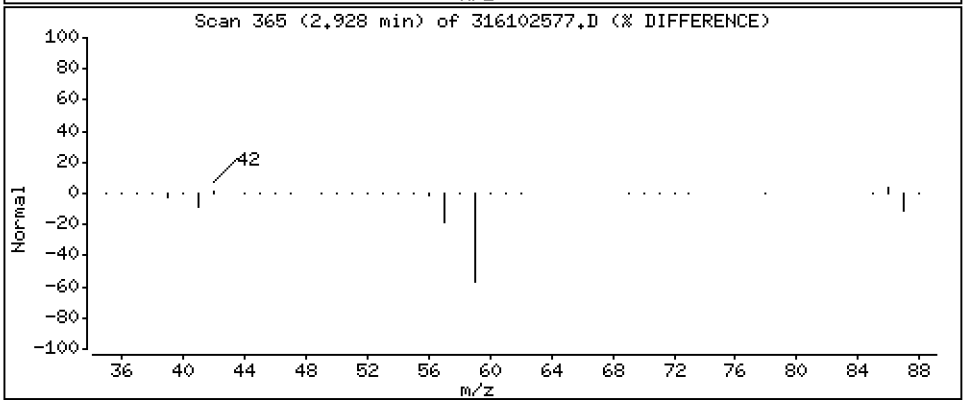












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 44

Date : 26-OCT-2016 07:30

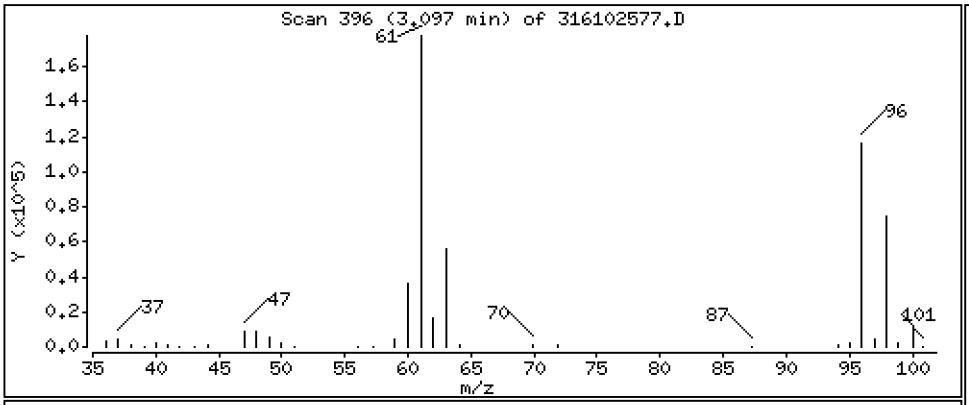
Client ID: 2184163001MS Instrument: ms03.i

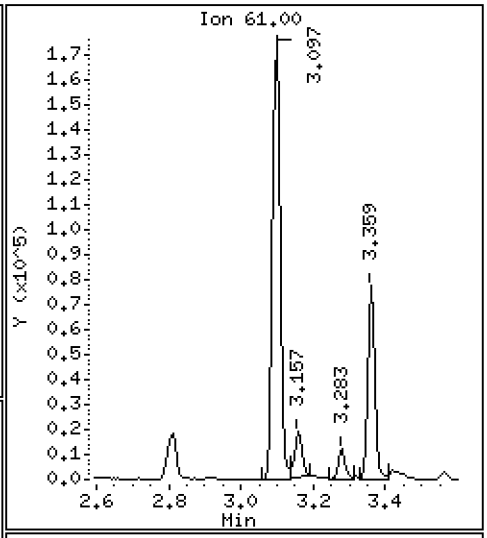
Sample Info: 2429373;;1;3;;MS;1;

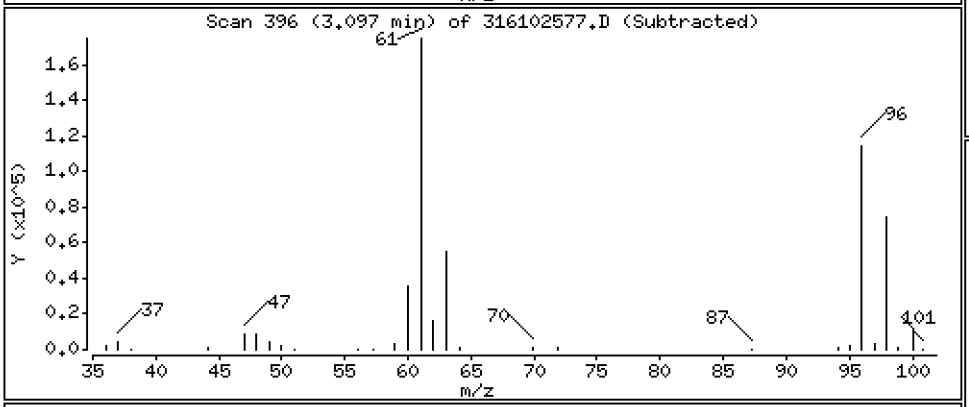
Purge Volume: 5.0 Operator: CJG

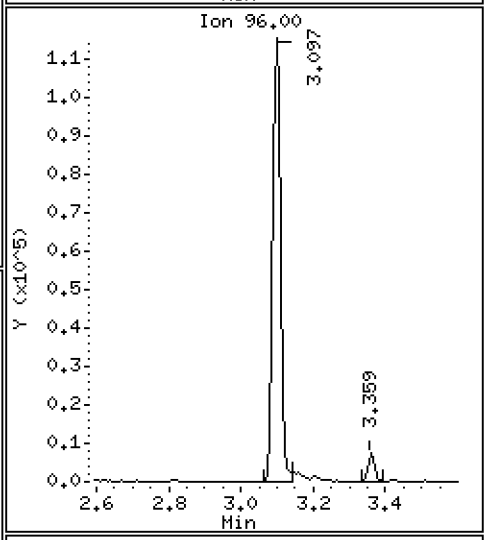
Column phase: DB-VRX Column diameter: 0.25

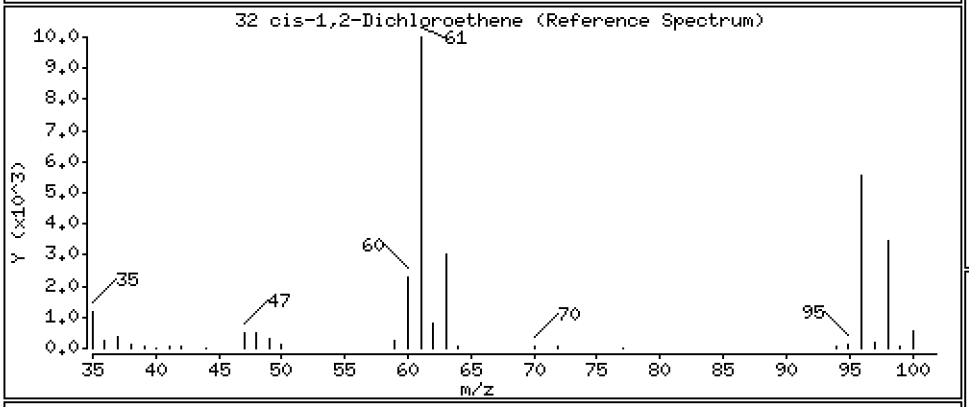
32 cis-1,2-Dichloroethene Concentration: 21.1421 ug/L

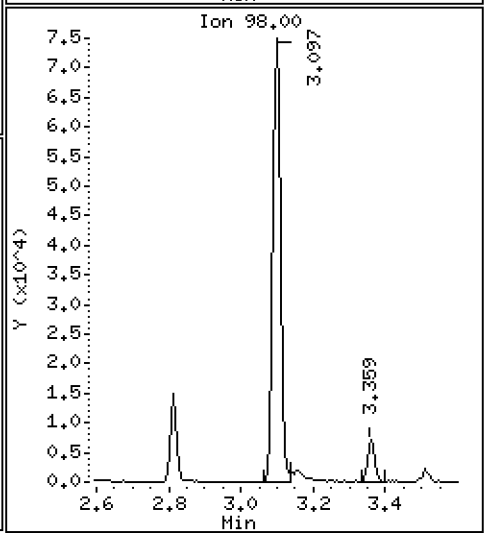


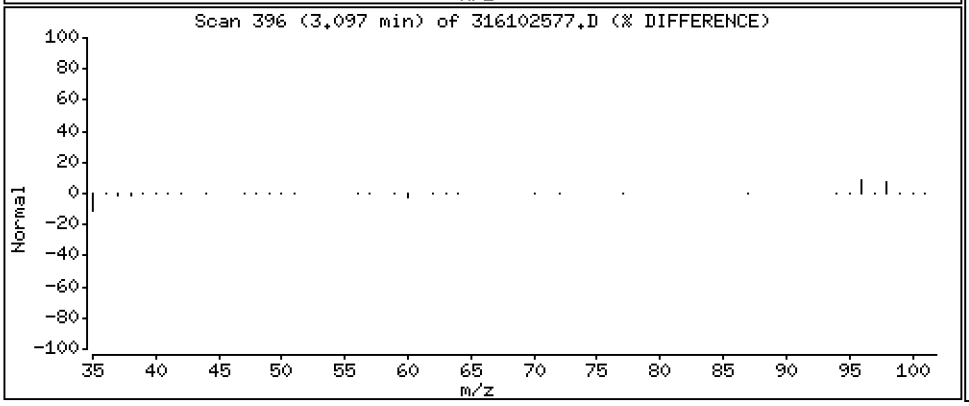












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 45

Date : 26-OCT-2016 07:30

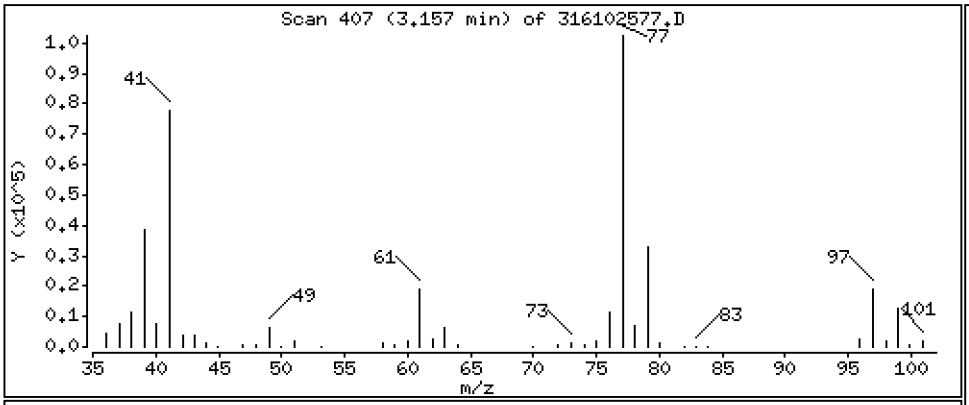
Client ID: 2184163001MS Instrument: ms03.i

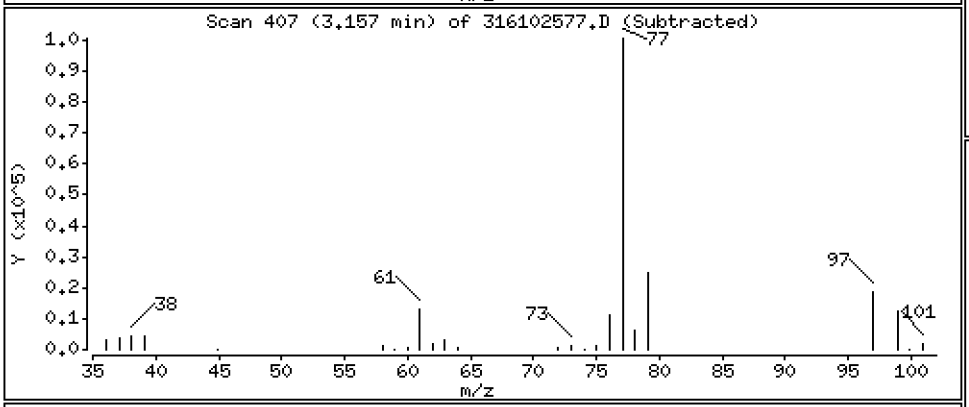
Sample Info: 2429373:1:3::MS:1:

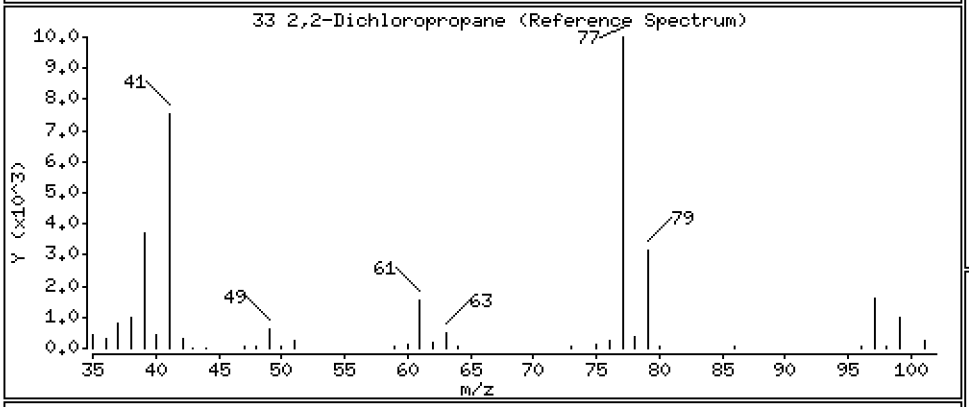
Purge Volume: 5.0 Operator: CJG

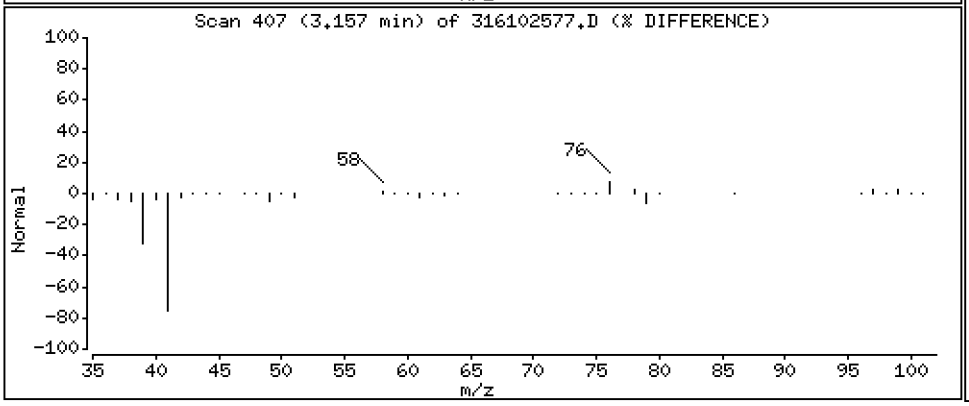
Column phase: DB-VRX Column diameter: 0.25

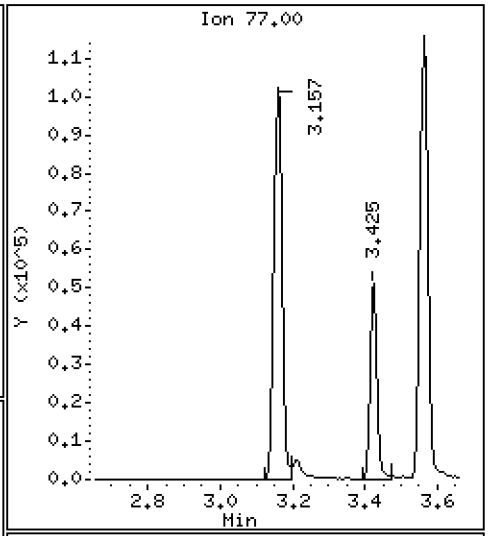
33 2,2-Dichloropropane Concentration: 17.0648 ug/L

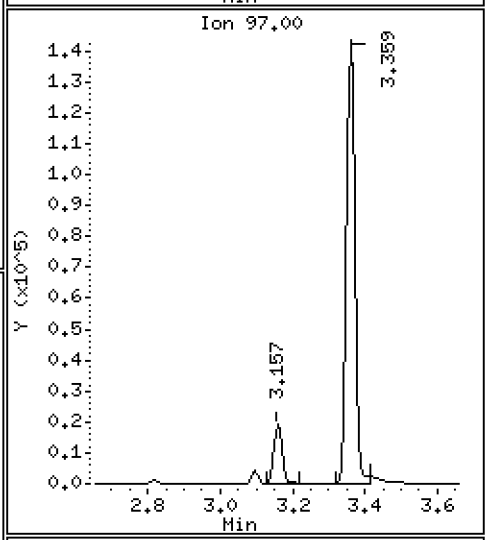


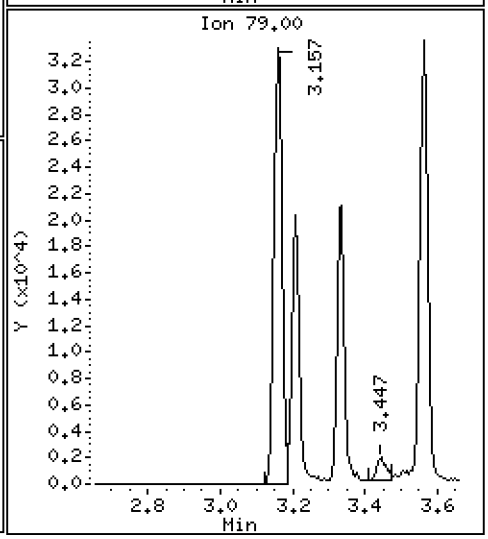












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 46

Date : 26-OCT-2016 07:30

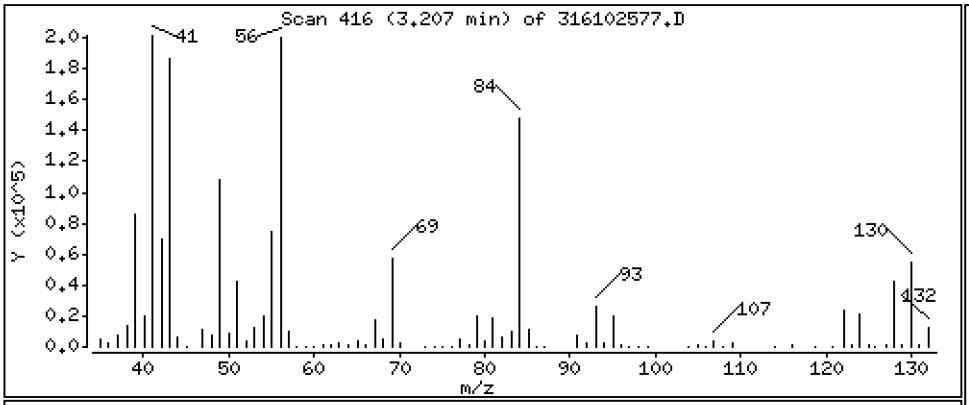
Client ID: 2184163001MS Instrument: ms03.i

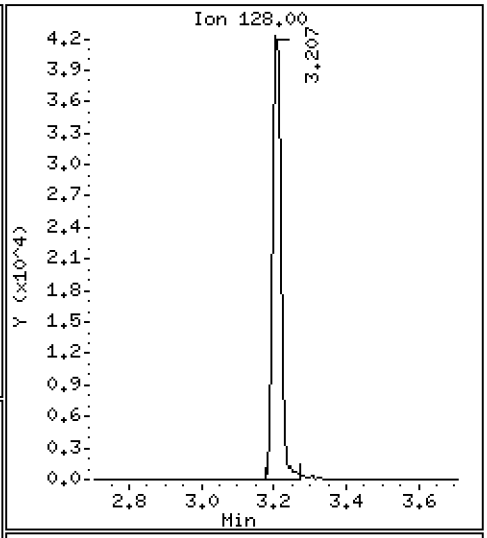
Sample Info: 2429373;;1;3;;MS;1;

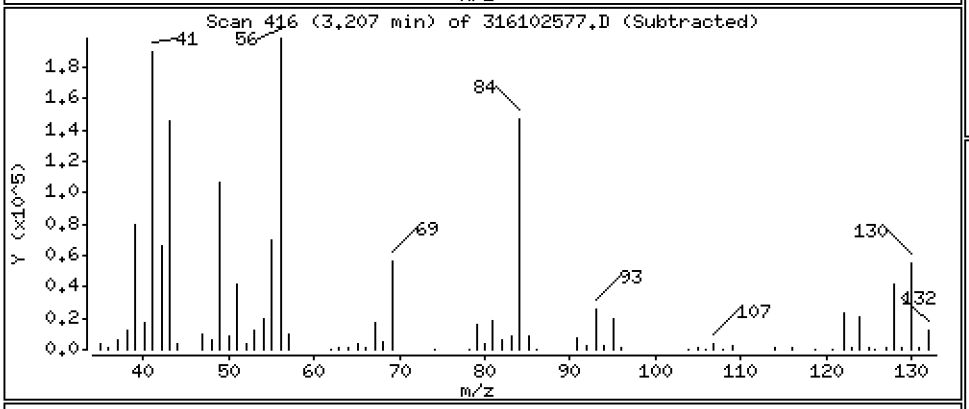
Purge Volume: 5.0 Operator: CJG

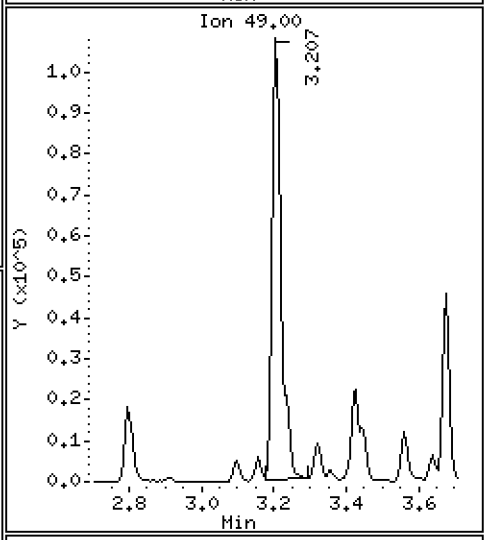
Column phase: DB-VRX Column diameter: 0.25

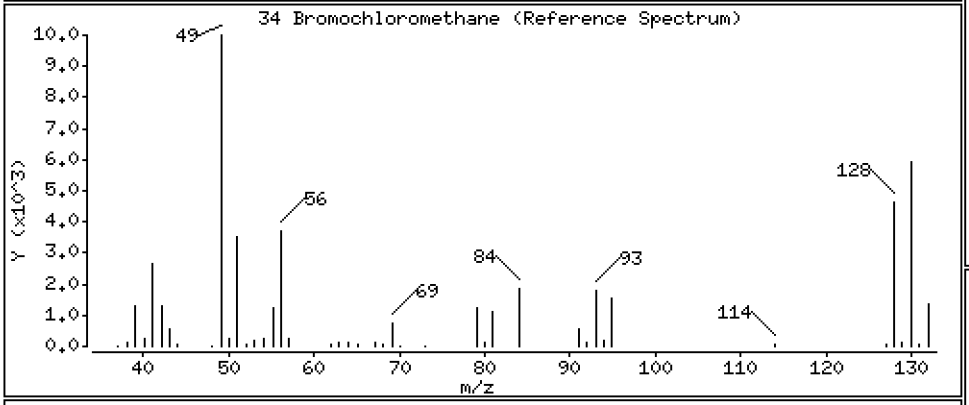
34 Bromochloromethane Concentration: 19.7705 ug/L

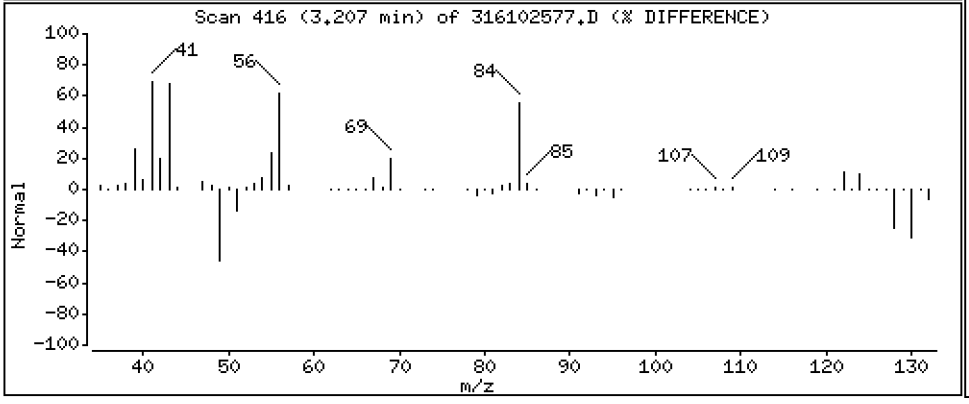


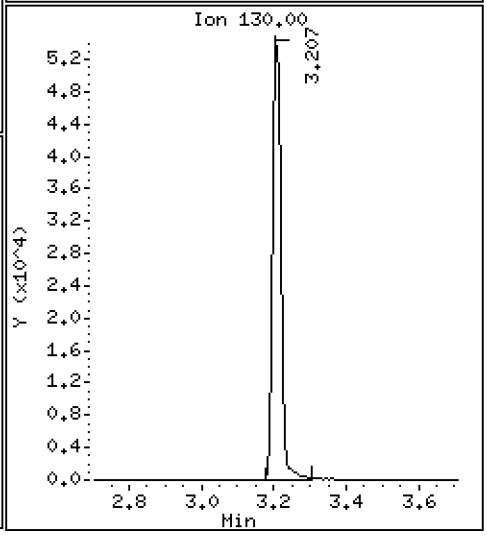












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 47

Date : 26-OCT-2016 07:30

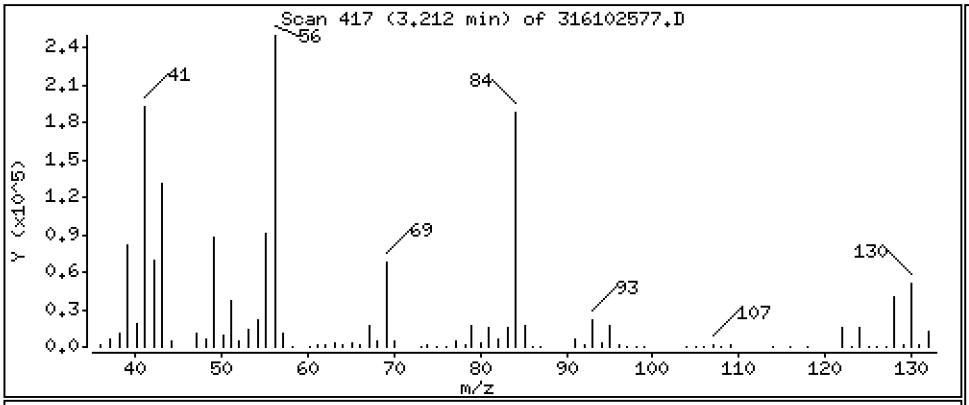
Client ID: 2184163001MS Instrument: ms03.i

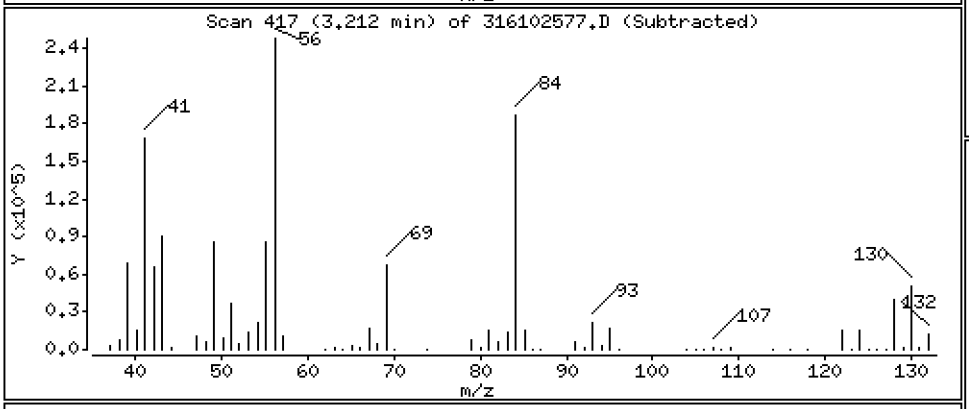
Sample Info: 2429373;;1;3;;MS;1;

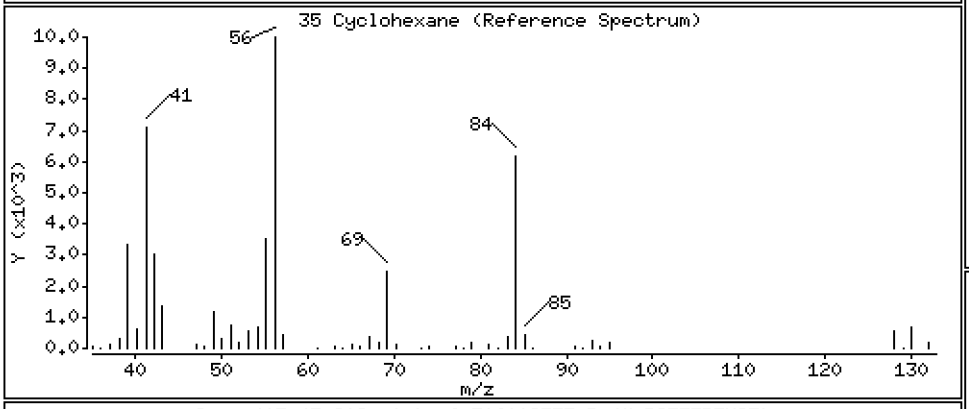
Purge Volume: 5.0 Operator: CJG

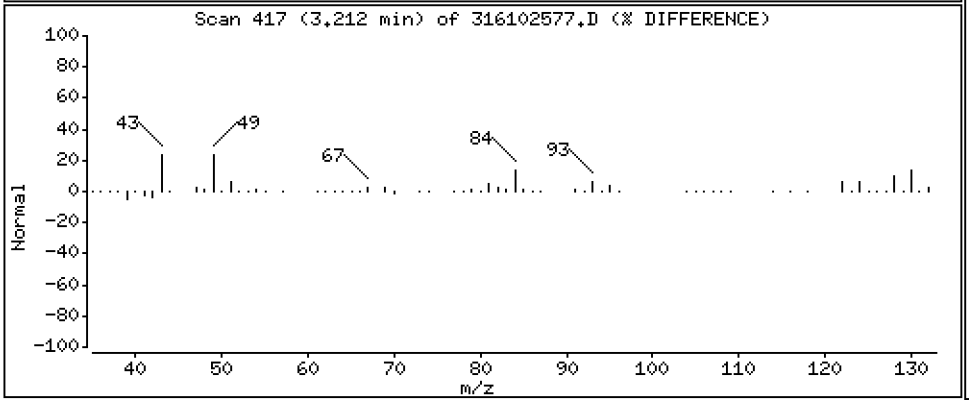
Column phase: DB-VRX Column diameter: 0.25

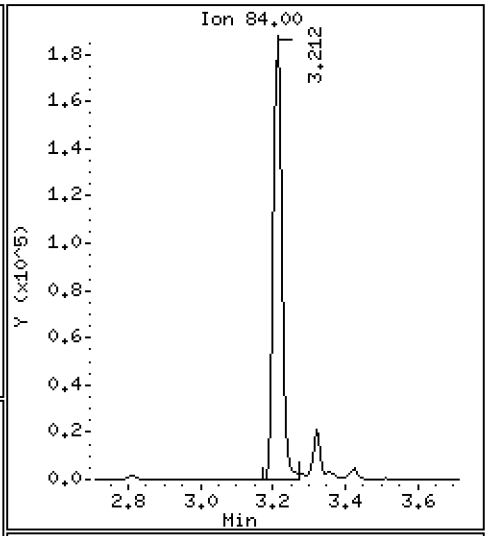
35 Cyclohexane Concentration: 23.5580 ug/L

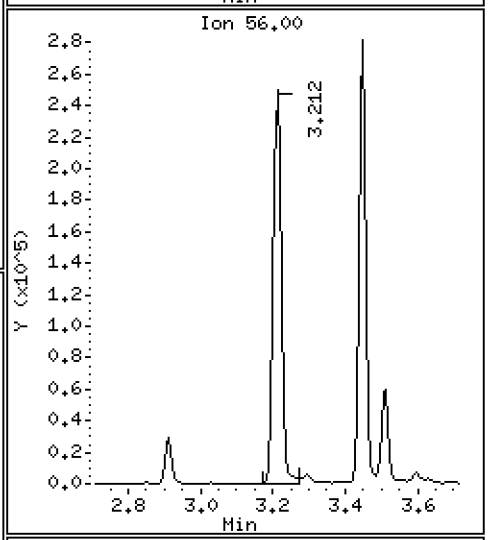


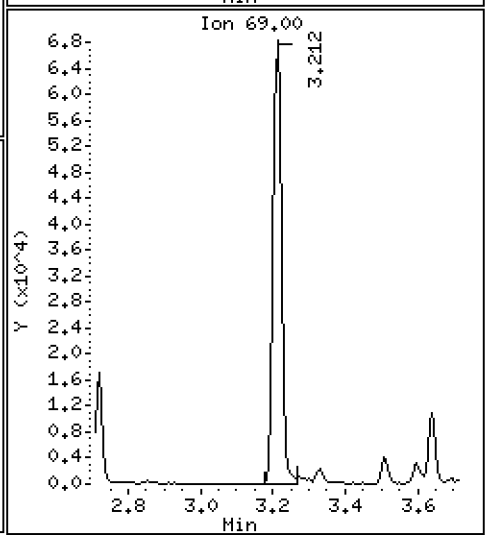












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 48

Date : 26-OCT-2016 07:30

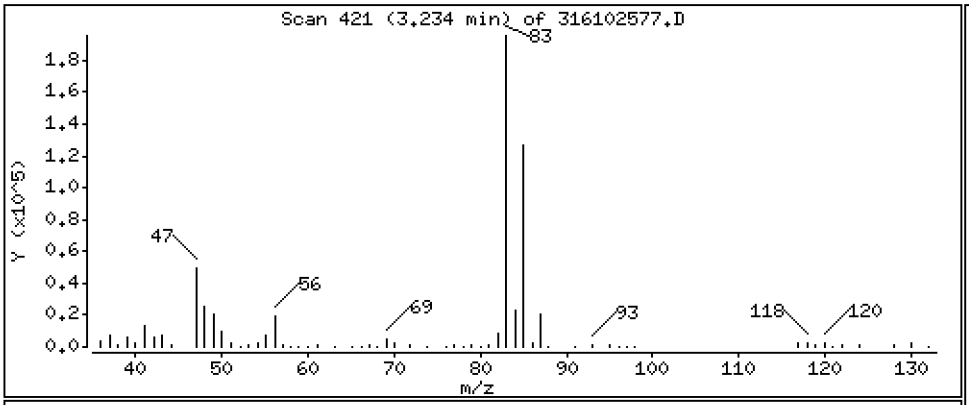
Client ID: 2184163001MS Instrument: ms03.i

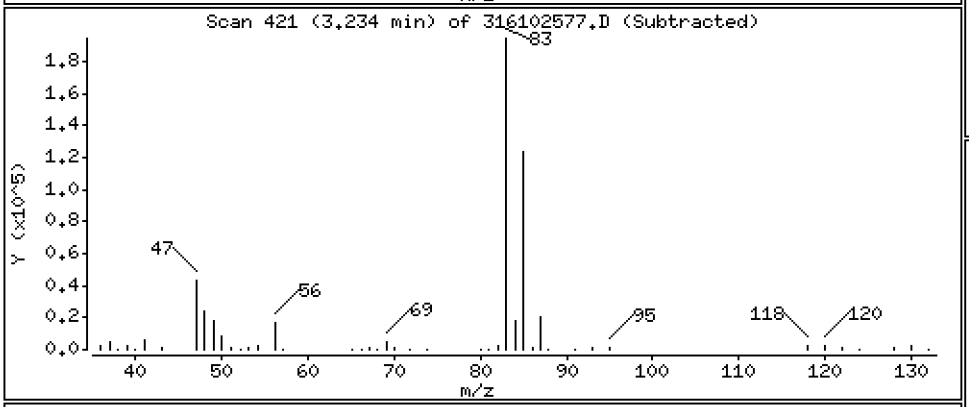
Sample Info: 2429373;;1;3;;MS;1;

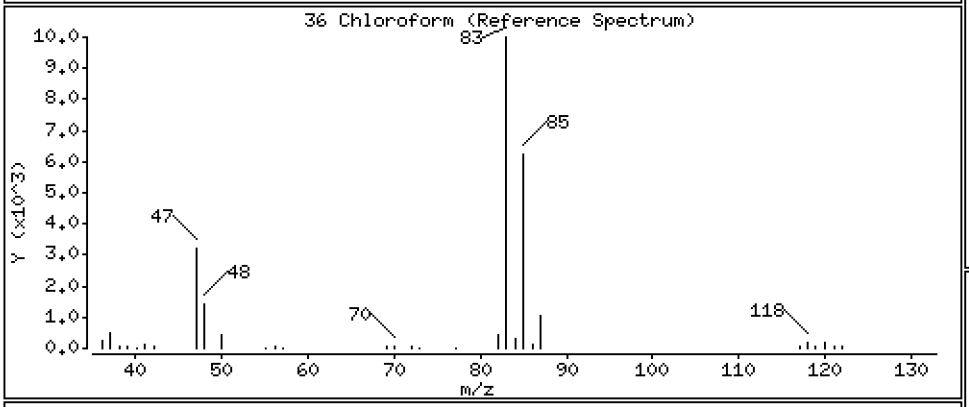
Purge Volume: 5.0 Operator: CJG

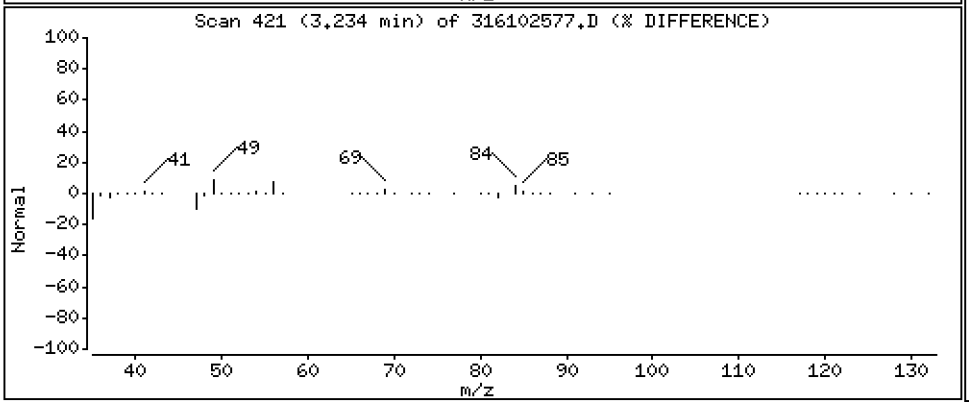
Column phase: DB-VRX Column diameter: 0.25

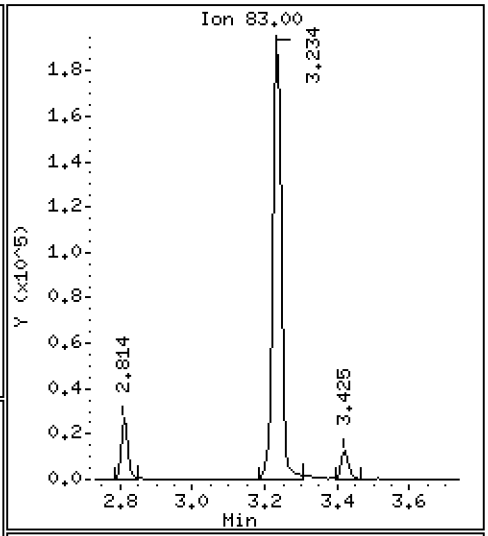
36 Chloroform Concentration: 21.1965 ug/L

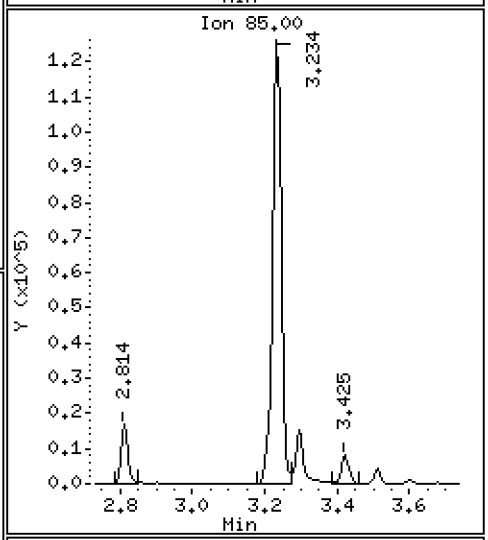


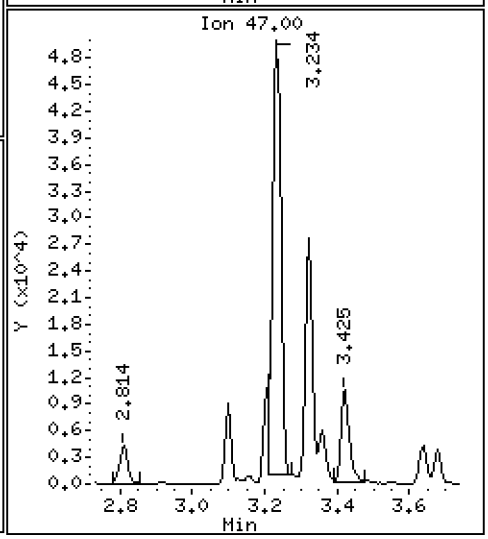












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 49

Date : 26-OCT-2016 07:30

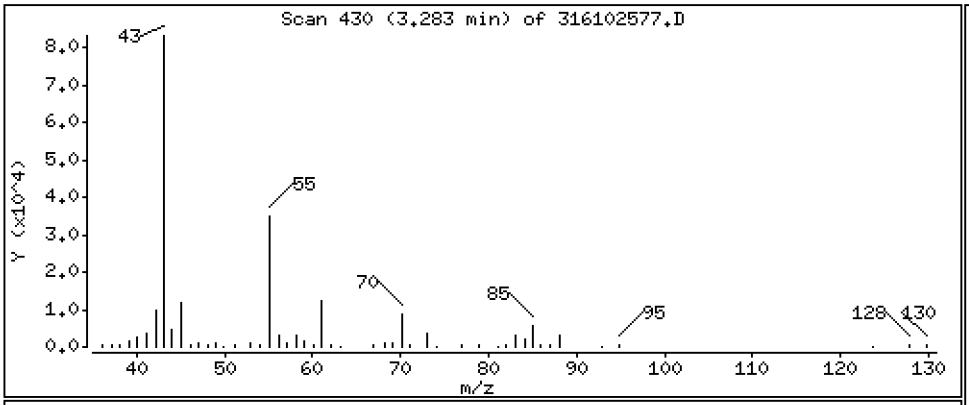
Client ID: 2184163001MS Instrument: ms03.i

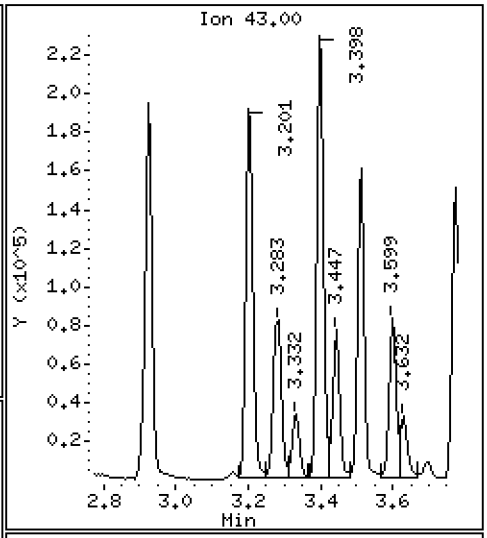
Sample Info: 2429373:1:3::MS:1:

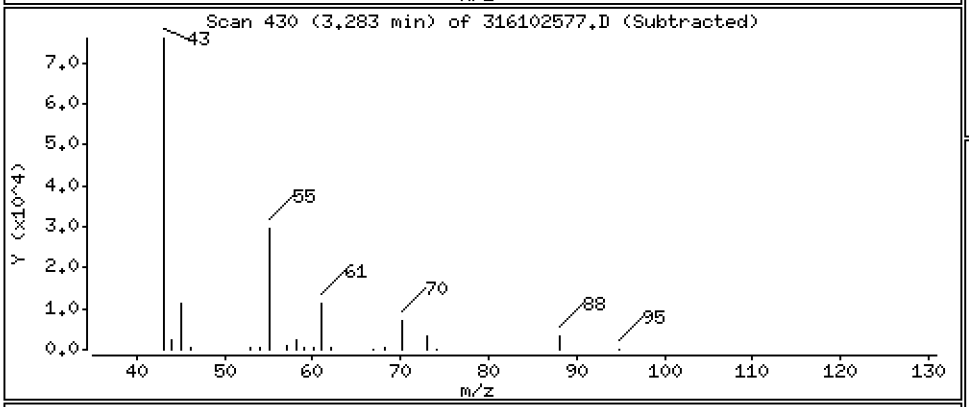
Purge Volume: 5.0 Operator: CJG

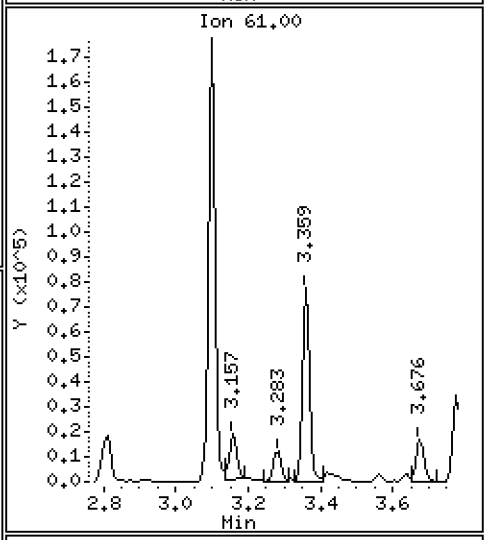
Column phase: DB-VRX Column diameter: 0.25

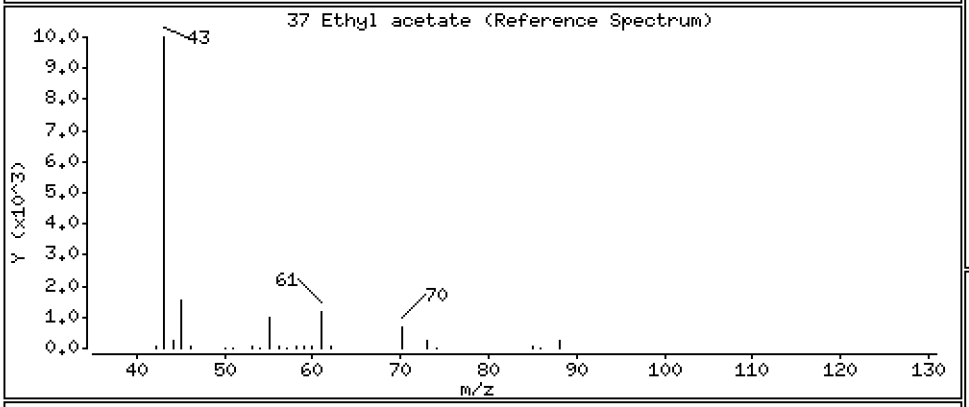
37 Ethyl acetate Concentration: 18.4457 ug/L

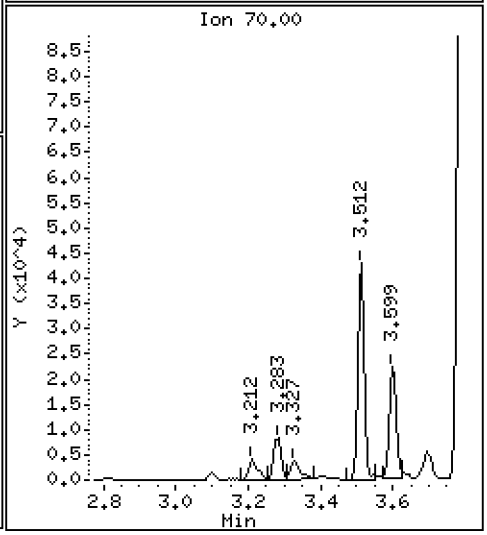


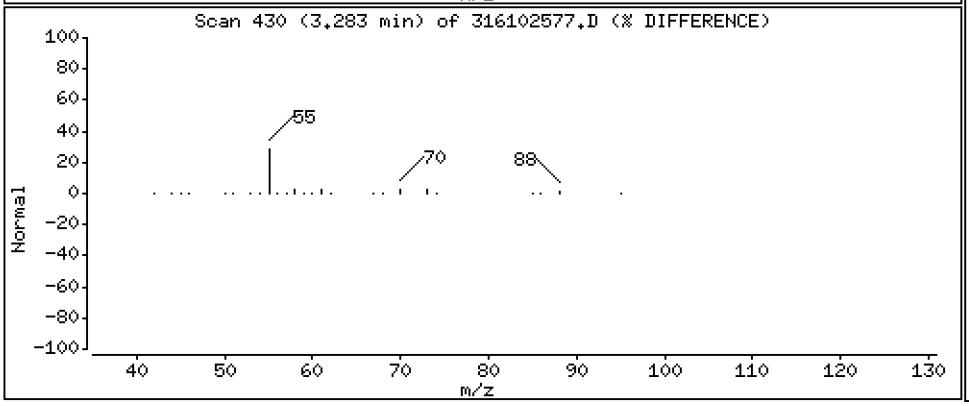












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 50

Date : 26-OCT-2016 07:30

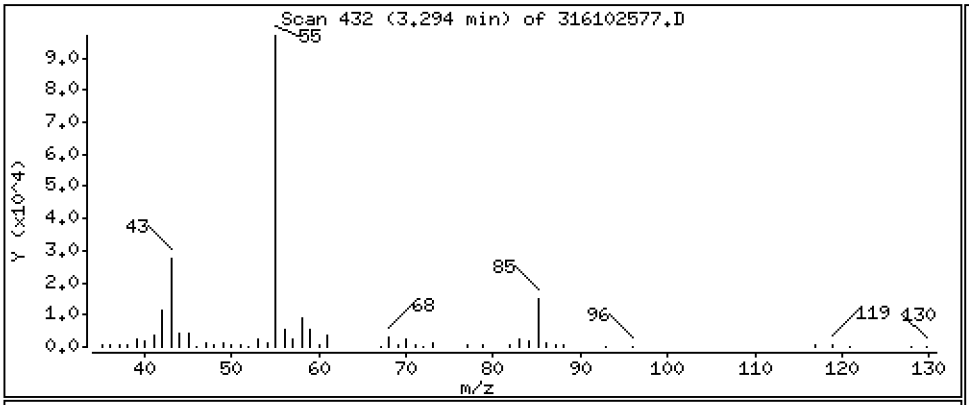
Client ID: 2184163001MS Instrument: ms03.i

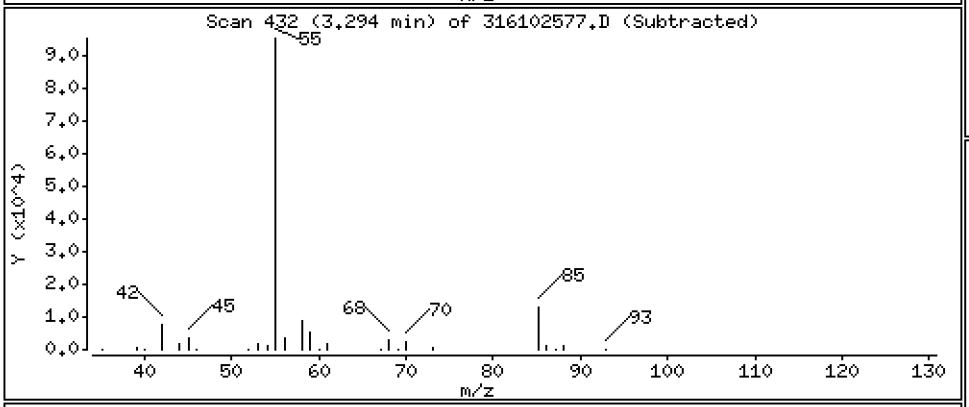
Sample Info: 2429373;;1;3;;MS;1;

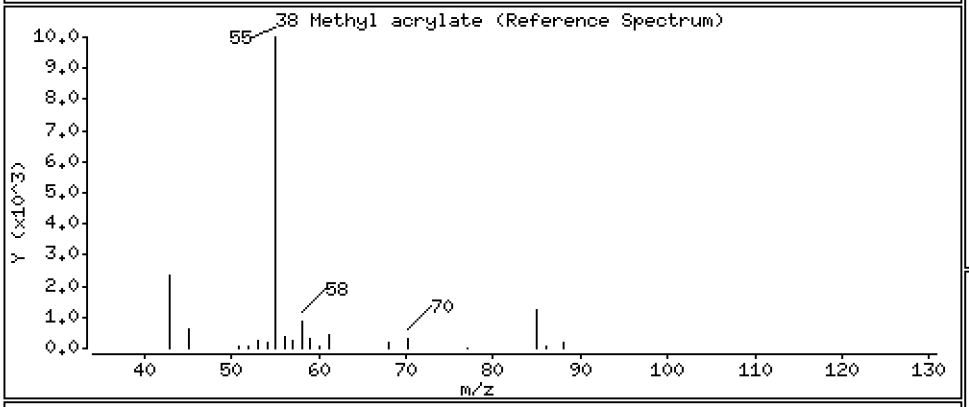
Purge Volume: 5.0 Operator: CJG

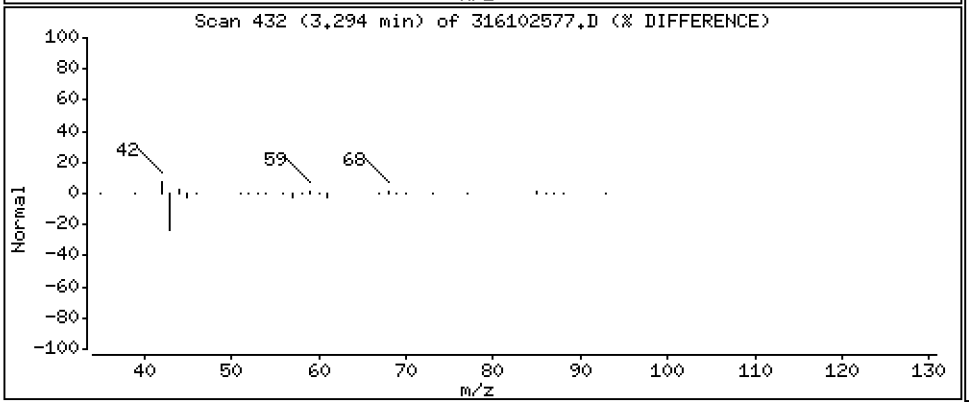
Column phase: DB-VRX Column diameter: 0.25

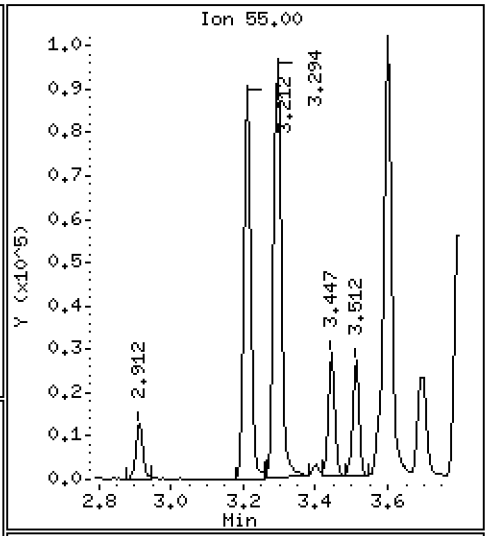
38 Methyl acrylate Concentration: 20.8566 ug/L

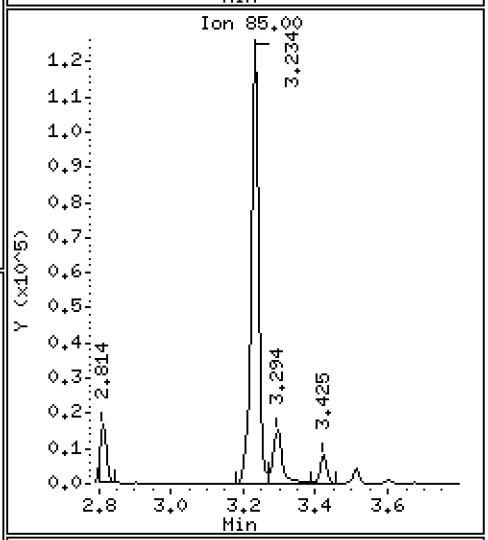


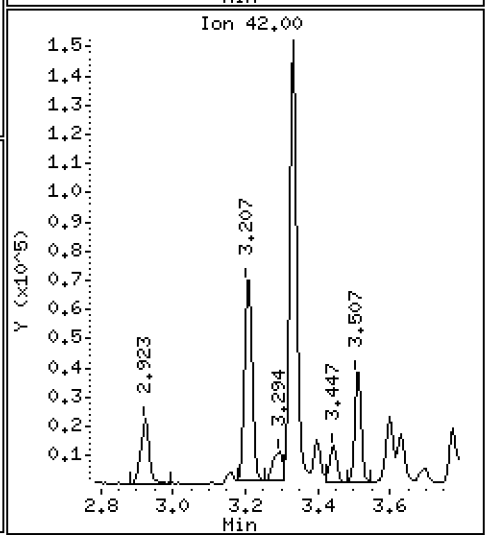












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 51

Date : 26-OCT-2016 07:30

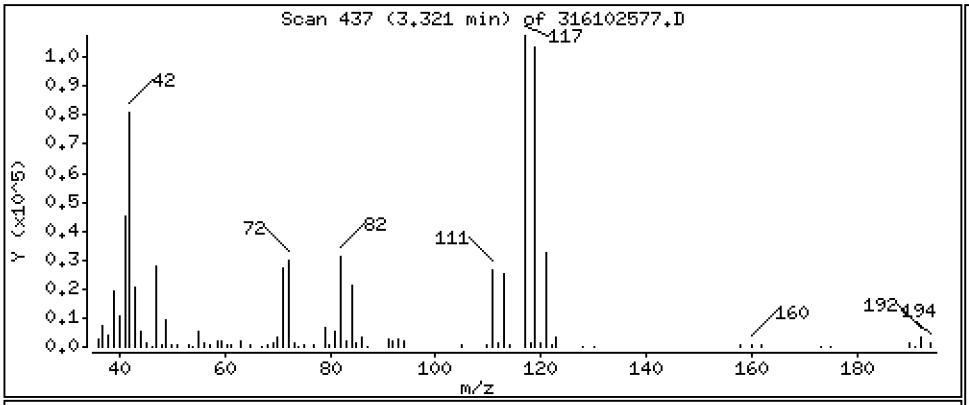
Client ID: 2184163001MS Instrument: ms03.i

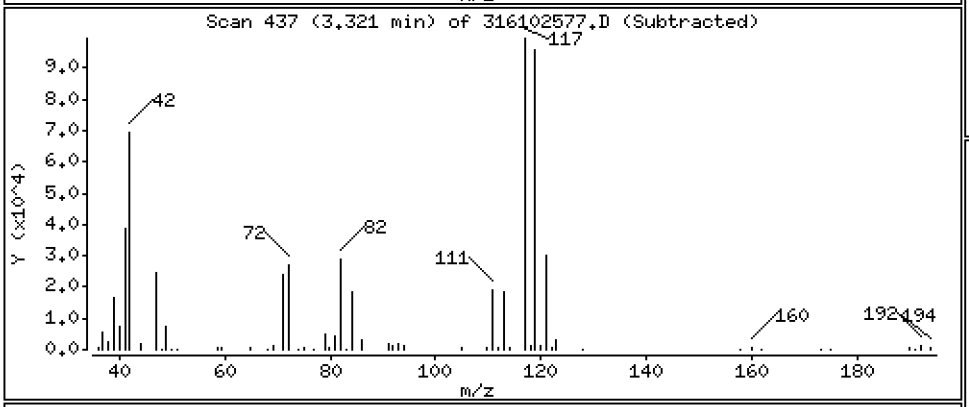
Sample Info: 2429373;;1;3;;MS;1;

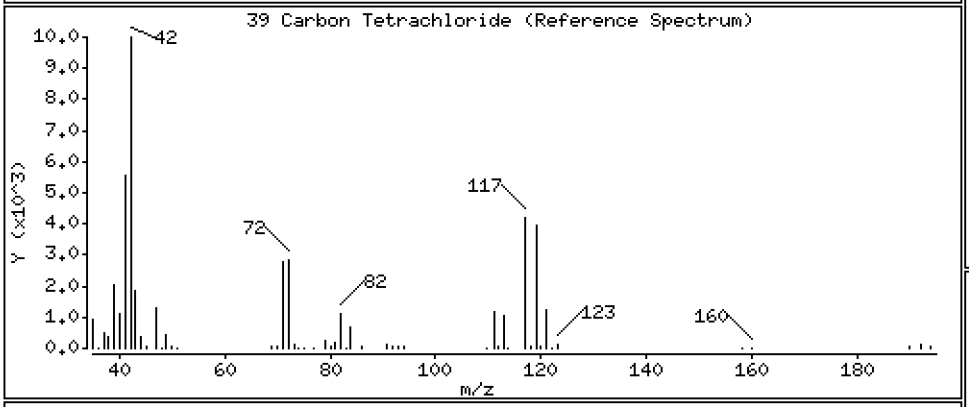
Purge Volume: 5.0 Operator: CJG

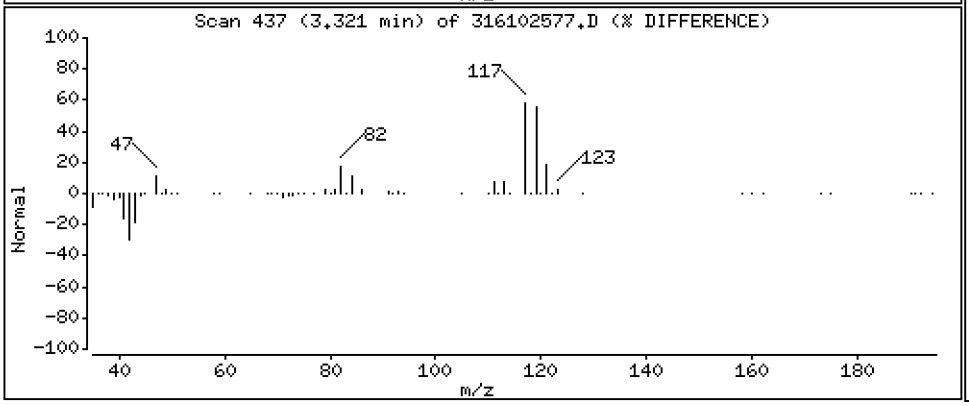
Column phase: DB-VRX Column diameter: 0.25

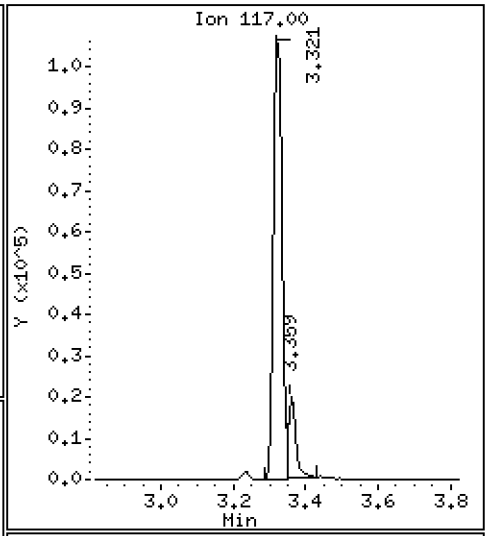
39 Carbon Tetrachloride Concentration: 20.9367 ug/L

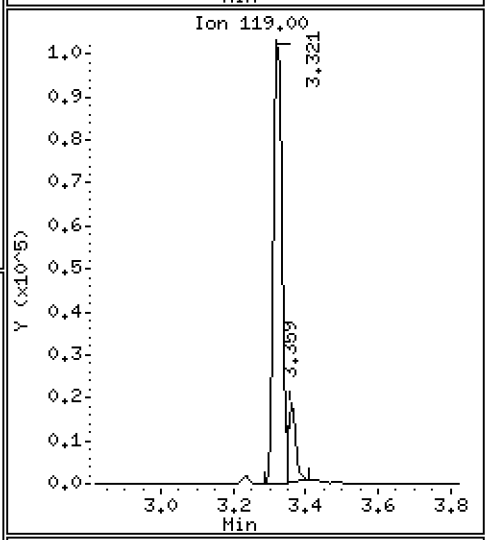


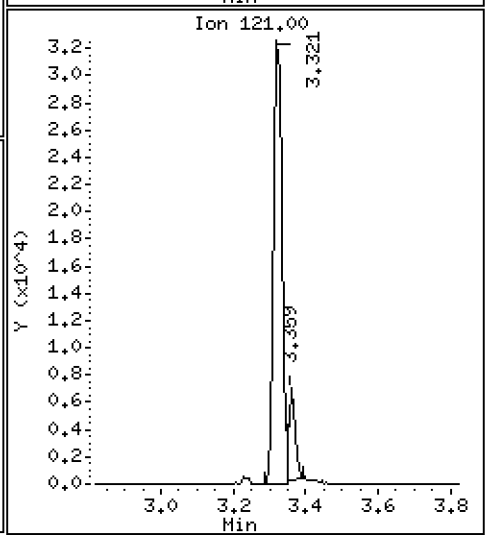












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 52

Date : 26-OCT-2016 07:30

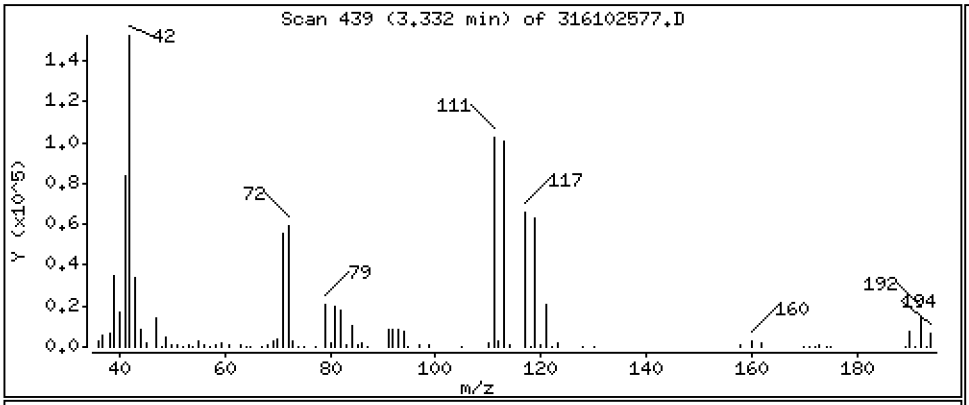
Client ID: 2184163001MS Instrument: ms03.i

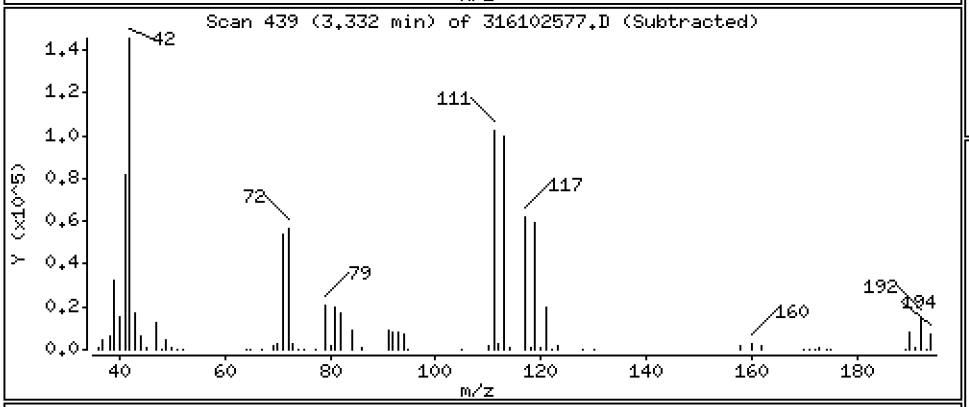
Sample Info: 2429373;;1;3;;MS;1;

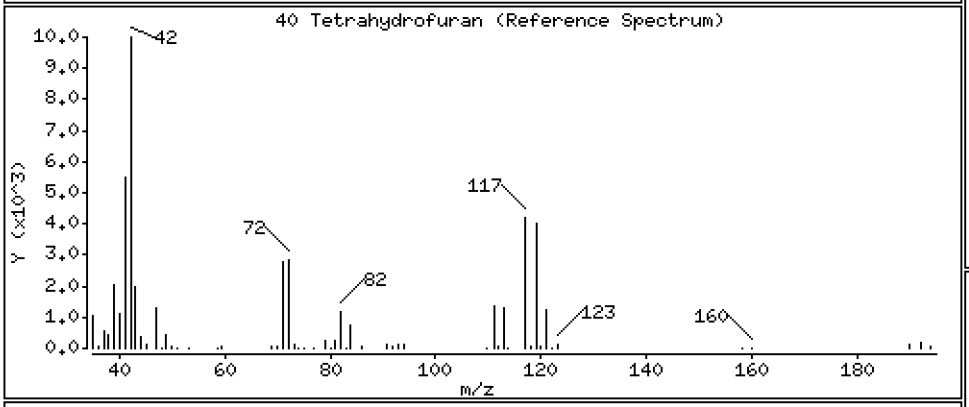
Purge Volume: 5.0 Operator: CJG

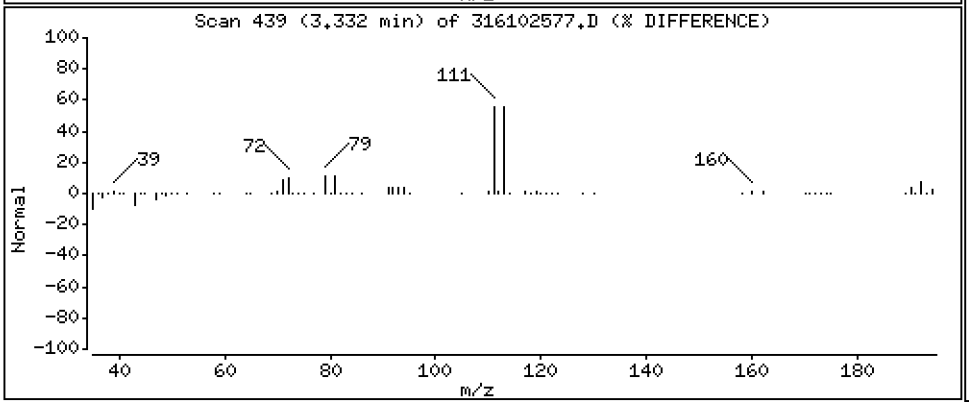
Column phase: DB-VRX Column diameter: 0.25

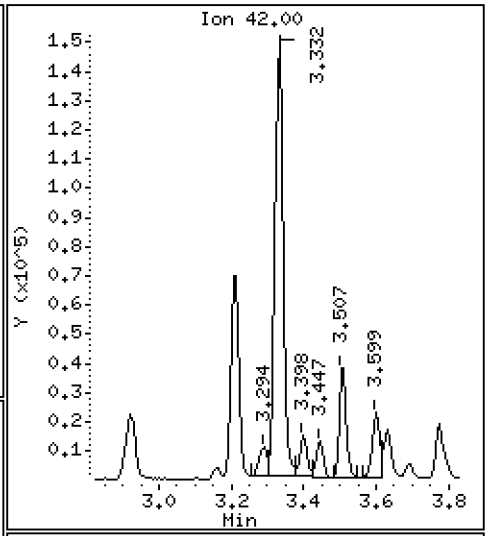
40 Tetrahydrofuran Concentration: 109.231 ug/L

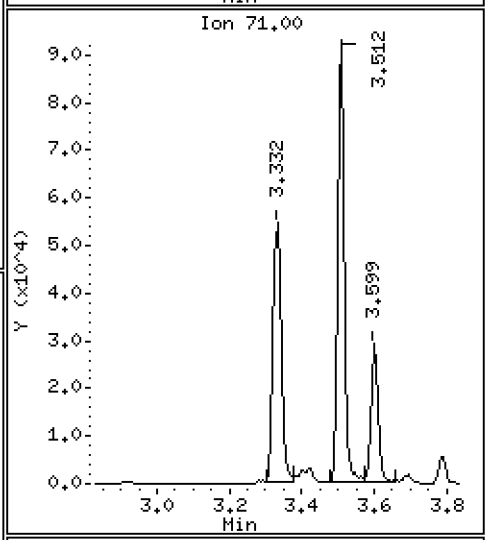


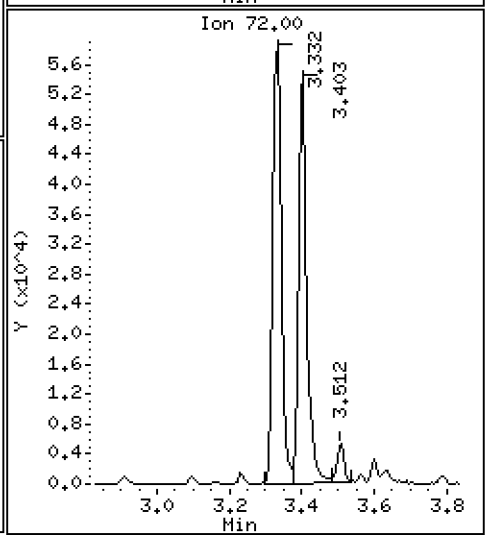












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 53

Date : 26-OCT-2016 07:30

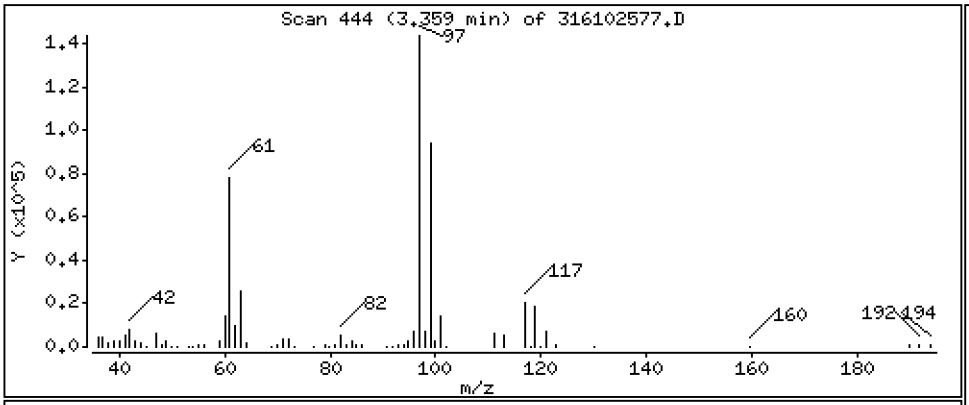
Client ID: 2184163001MS Instrument: ms03.i

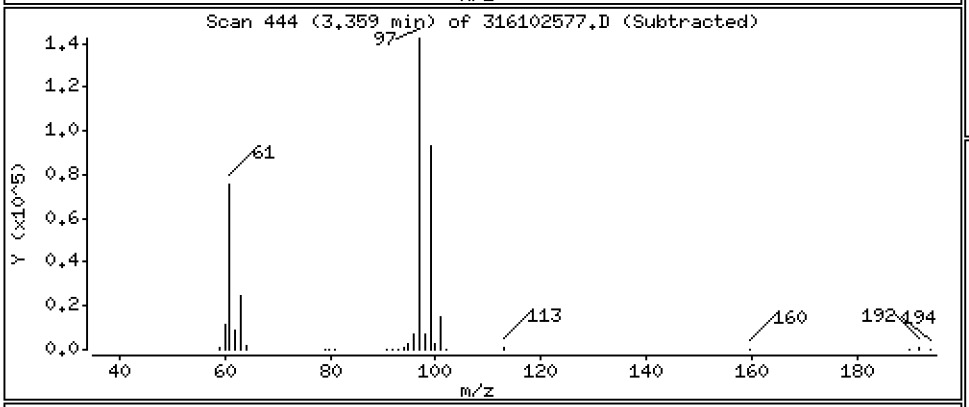
Sample Info: 2429373;;1;3;;MS;1;

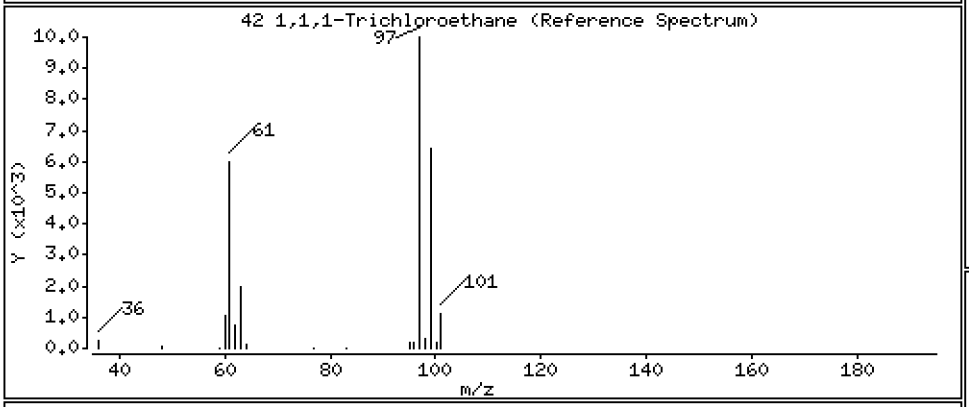
Purge Volume: 5.0 Operator: CJG

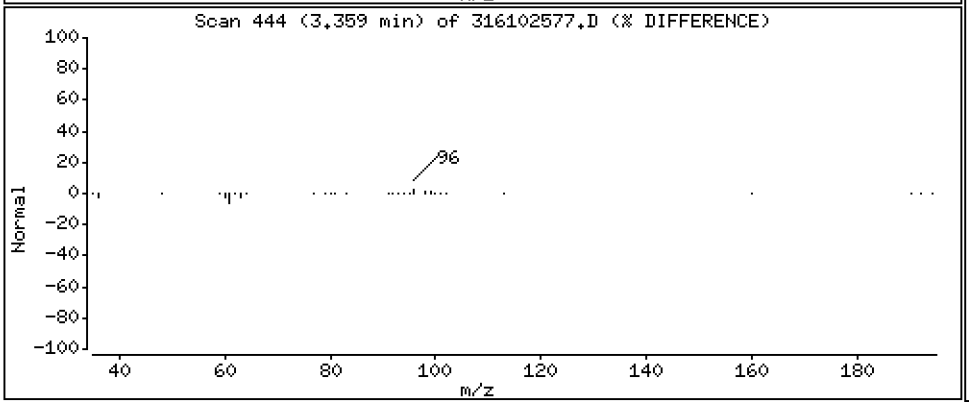
Column phase: DB-VRX Column diameter: 0.25

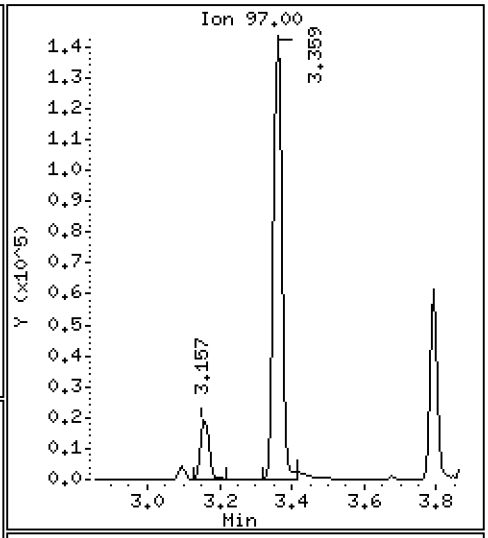
42 1,1,1-Trichloroethane Concentration: 21.0504 ug/L

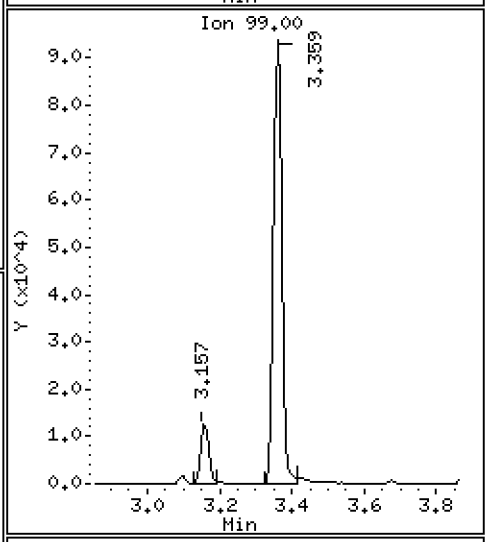


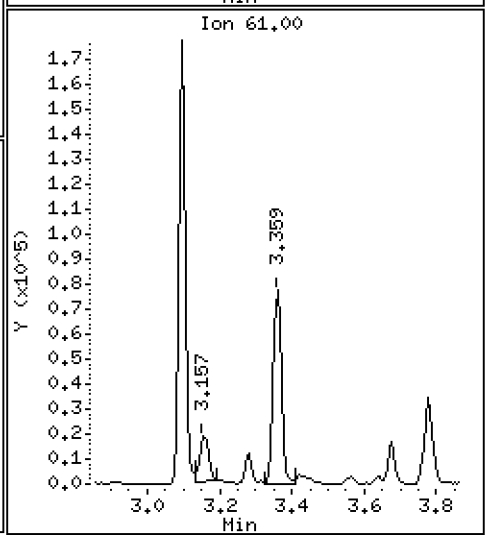












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 54

Date : 26-OCT-2016 07:30

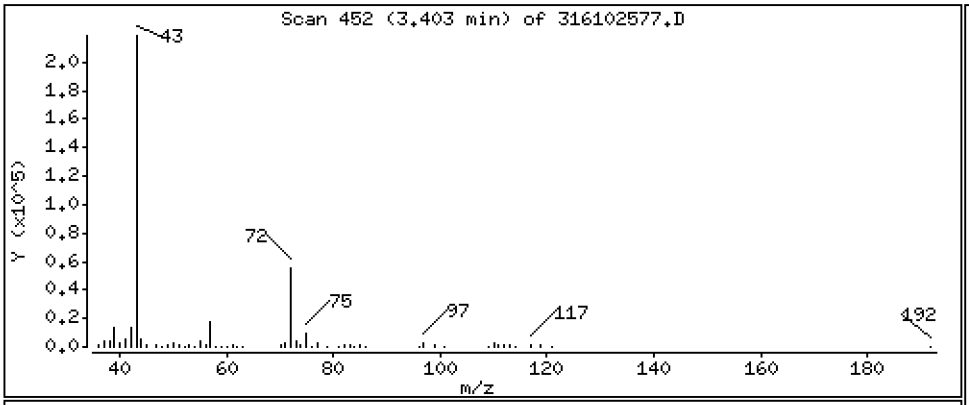
Client ID: 2184163001MS Instrument: ms03.i

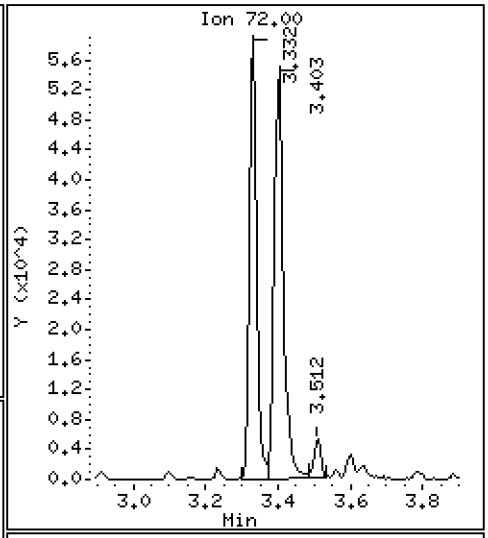
Sample Info: 2429373;;1;3;;MS;1;

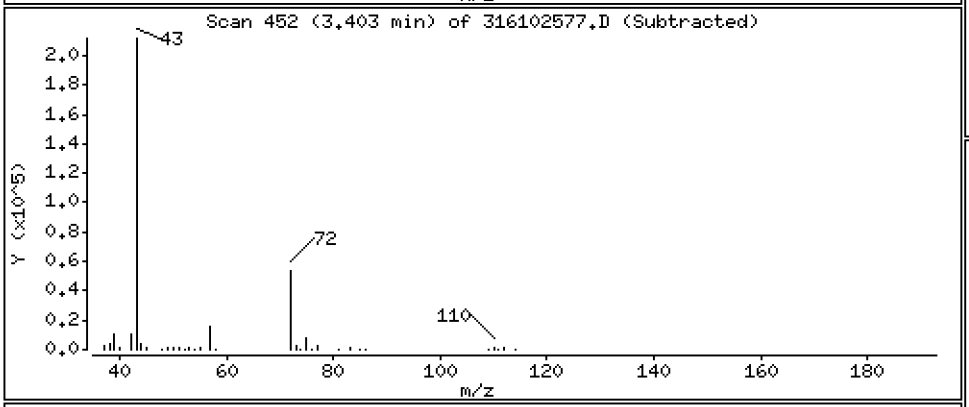
Purge Volume: 5.0 Operator: CJG

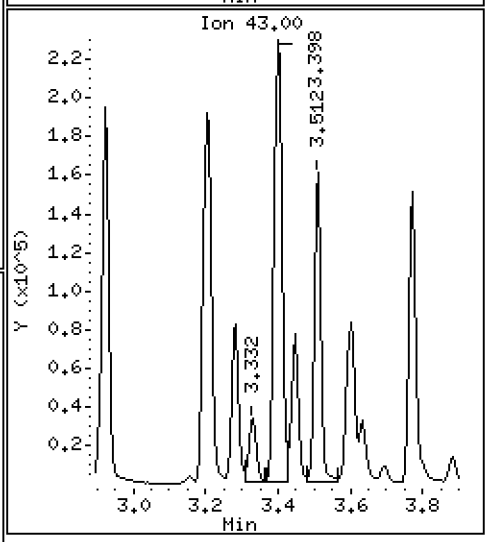
Column phase: DB-VRX Column diameter: 0.25

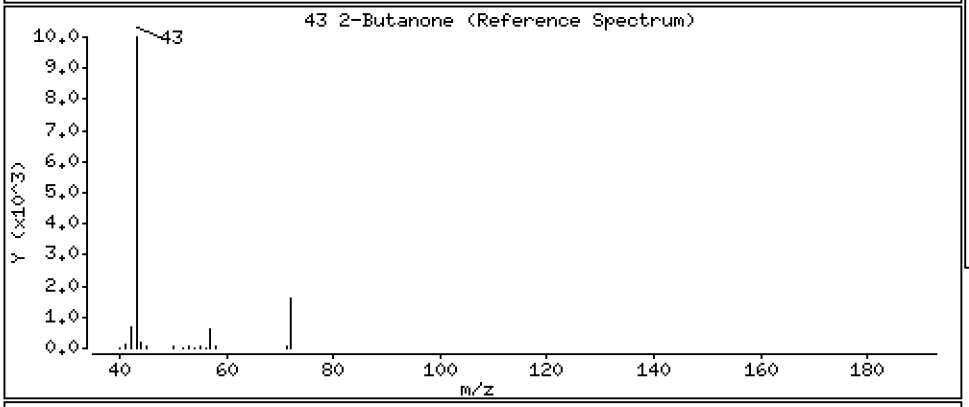
43 2-Butanone Concentration: 105.157 ug/L

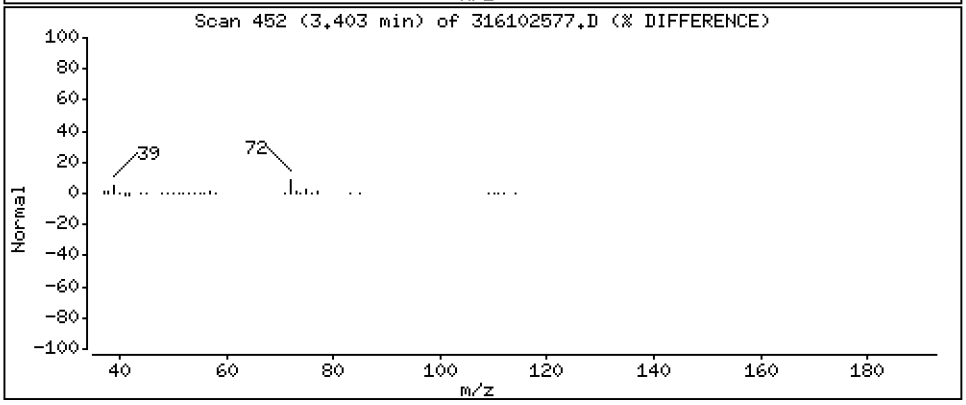












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 55

Date : 26-OCT-2016 07:30

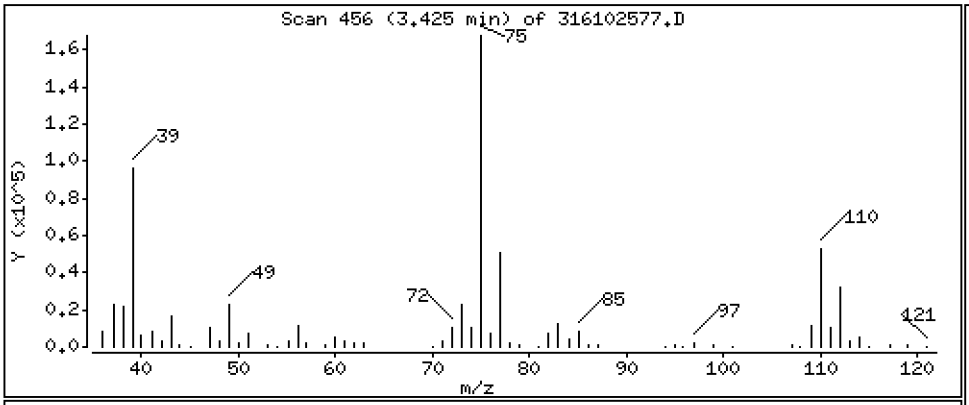
Client ID: 2184163001MS Instrument: ms03.i

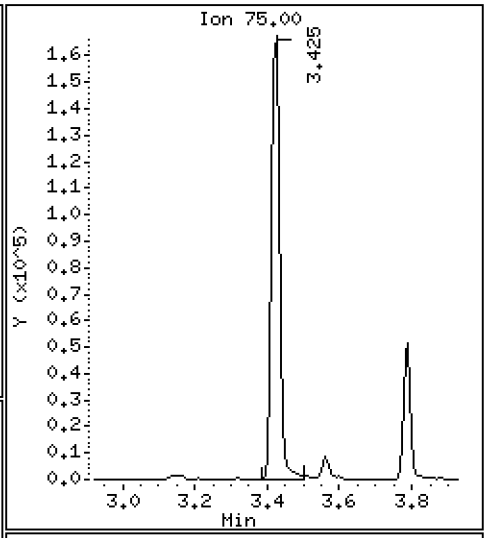
Sample Info: 2429373;;1;3;;MS;1;

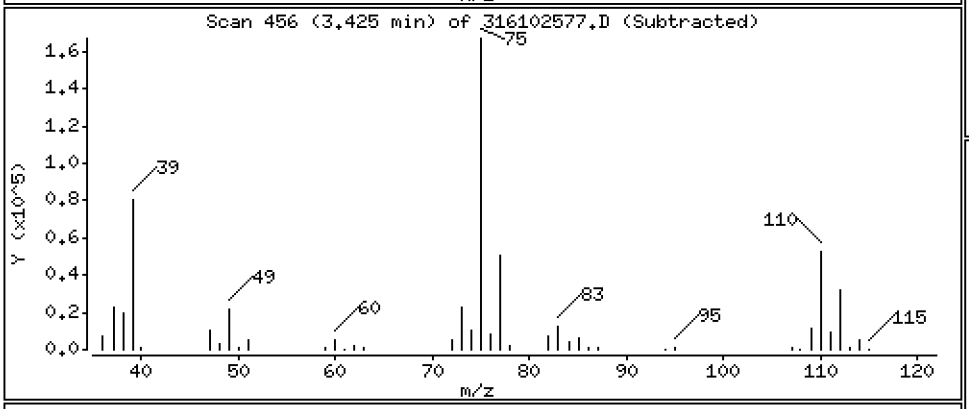
Purge Volume: 5.0 Operator: CJG

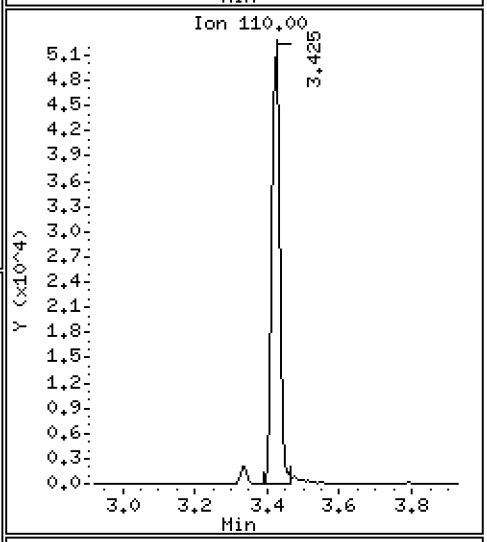
Column phase: DB-VRX Column diameter: 0.25

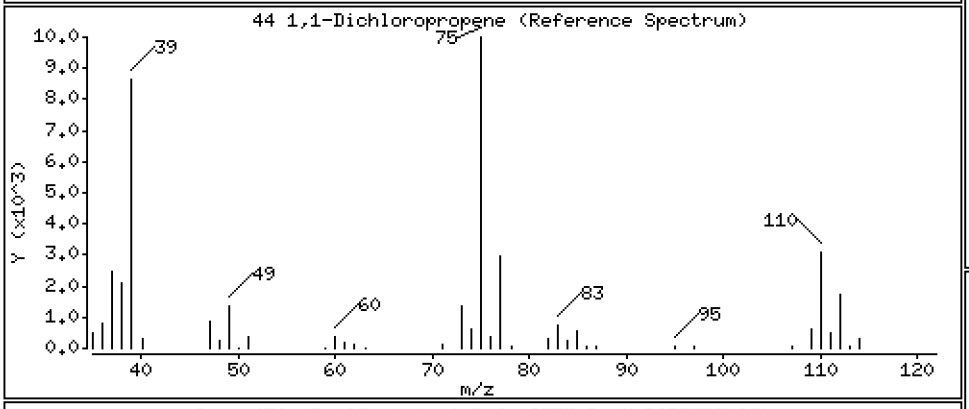
44 1,1-Dichloropropene Concentration: 22.3113 ug/L

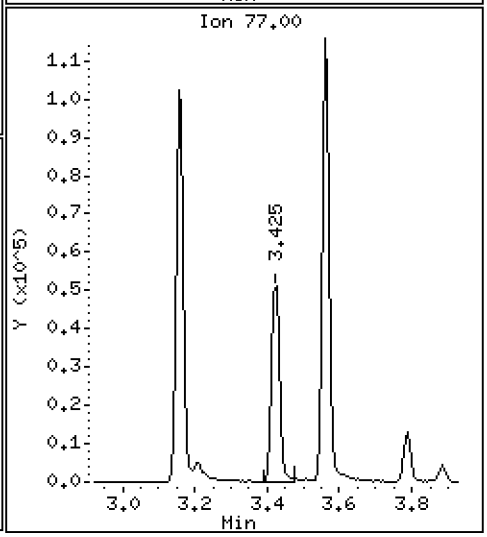


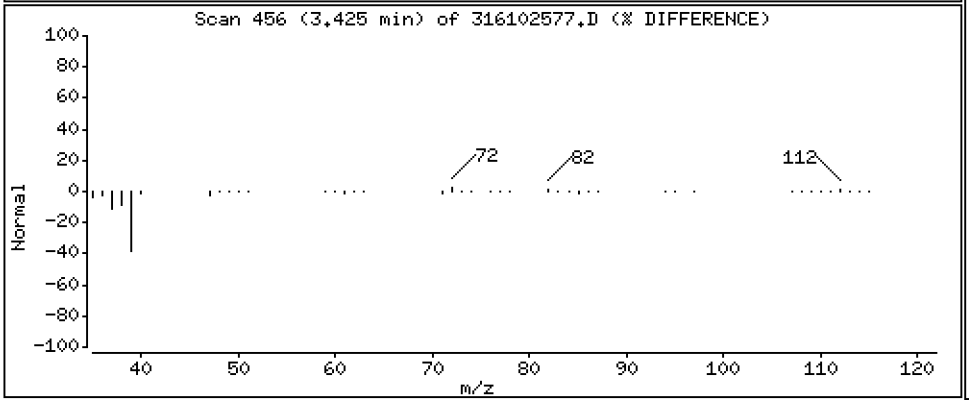












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 56

Date : 26-OCT-2016 07:30

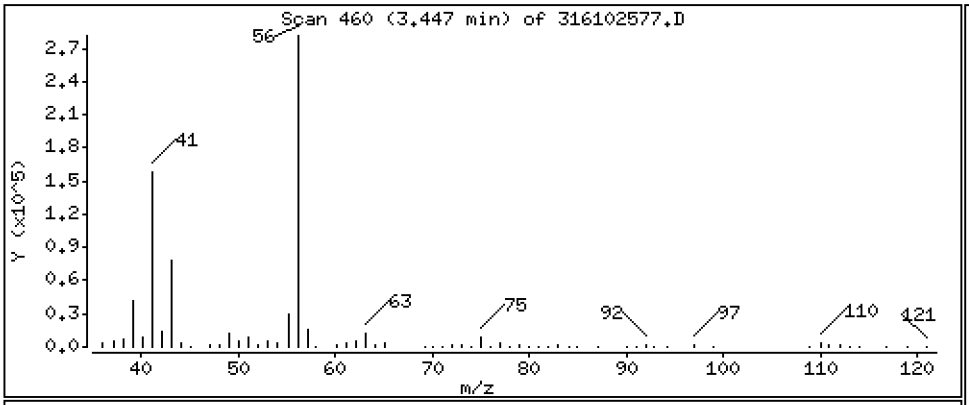
Client ID: 2184163001MS Instrument: ms03.i

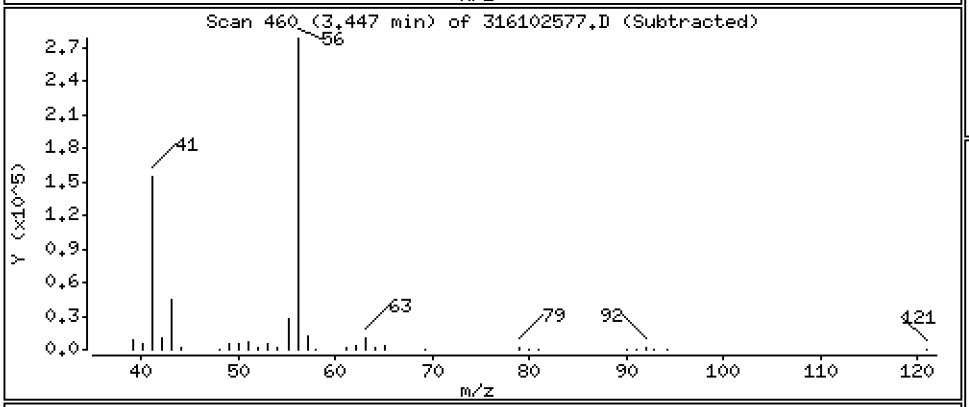
Sample Info: 2429373;;1;3;;MS;1;

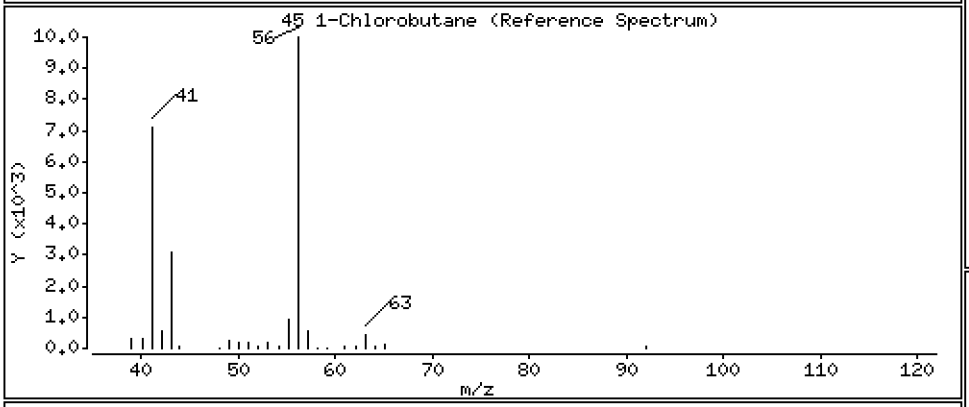
Purge Volume: 5.0 Operator: CJG

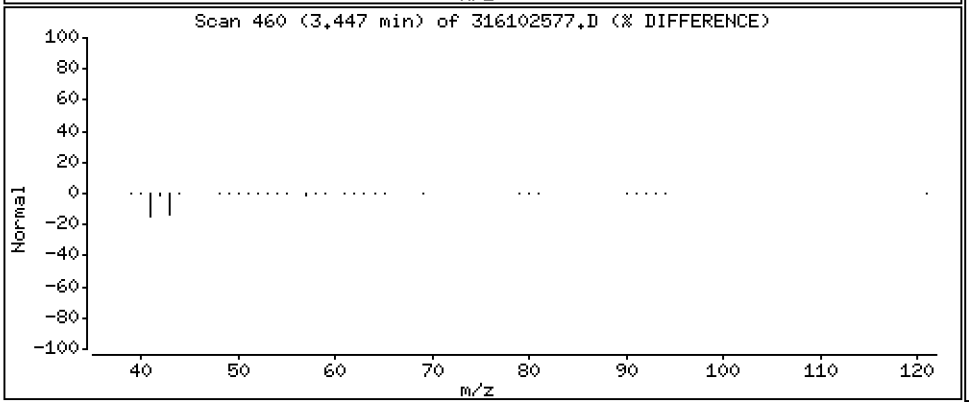
Column phase: DB-VRX Column diameter: 0.25

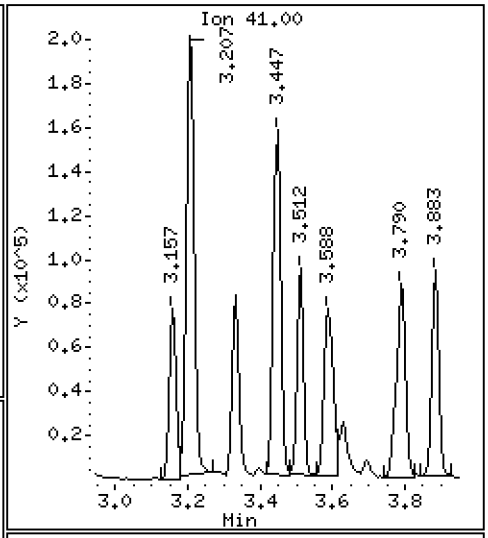
45 1-Chlorobutane Concentration: 26.2039 ug/L

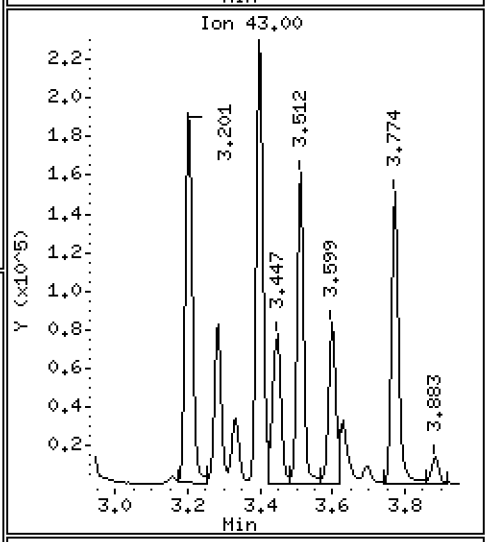


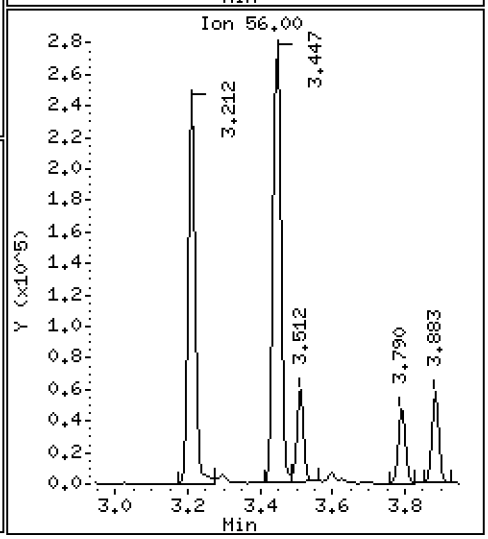












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 57

Date : 26-OCT-2016 07:30

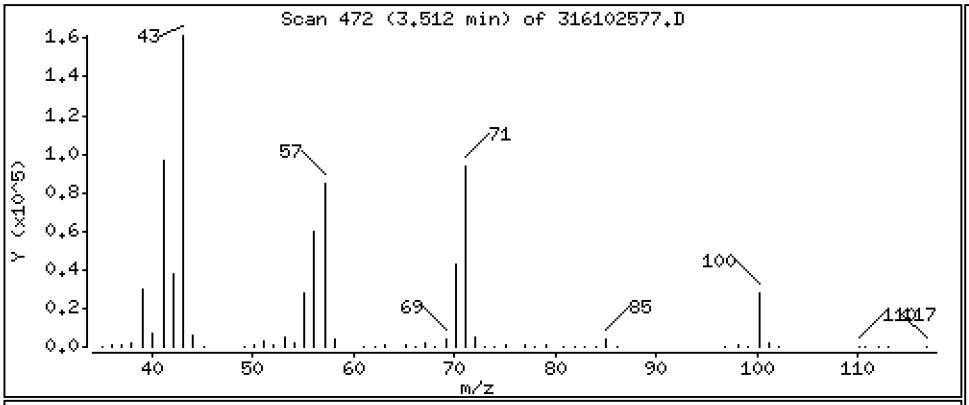
Client ID: 2184163001MS Instrument: ms03.i

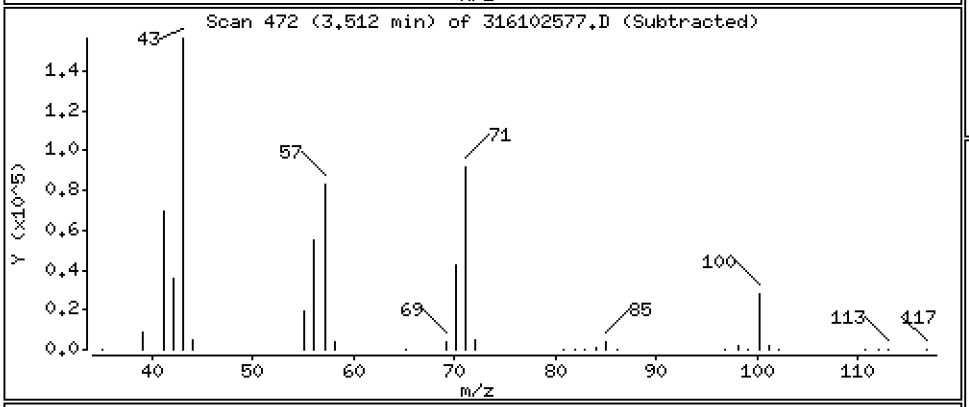
Sample Info: 2429373;;1;3;;MS;1;

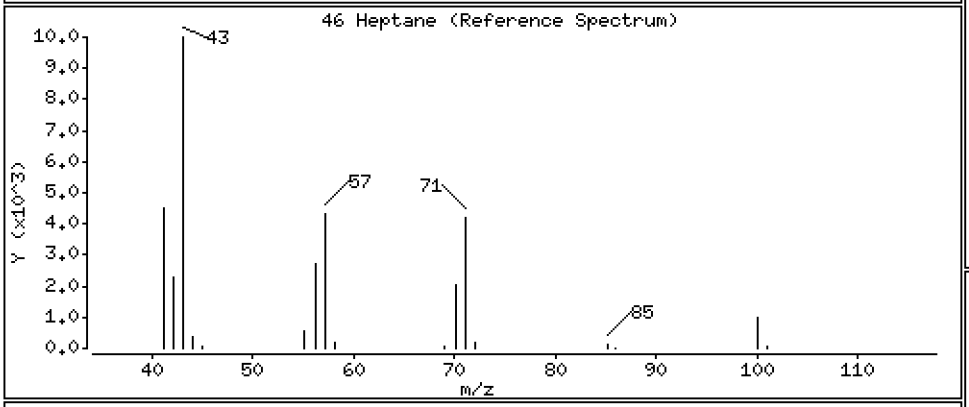
Purge Volume: 5.0 Operator: CJG

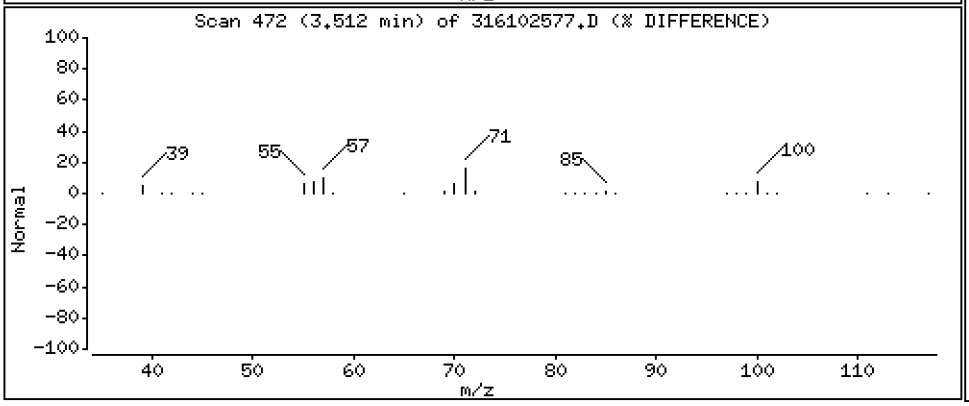
Column phase: DB-VRX Column diameter: 0.25

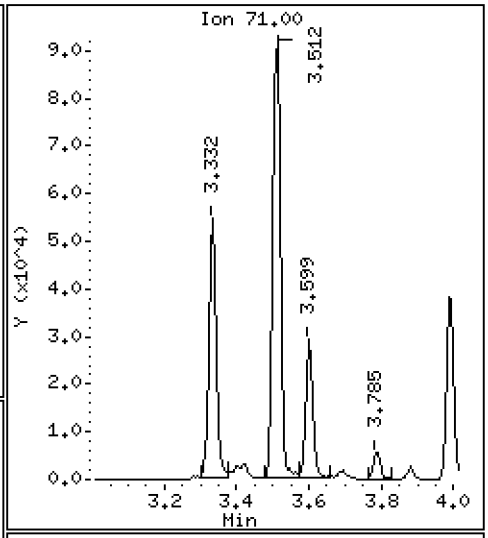
46 Heptane Concentration: 24.9206 ug/L

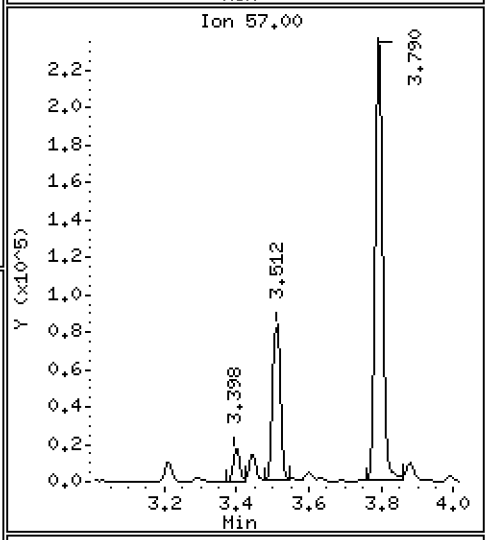


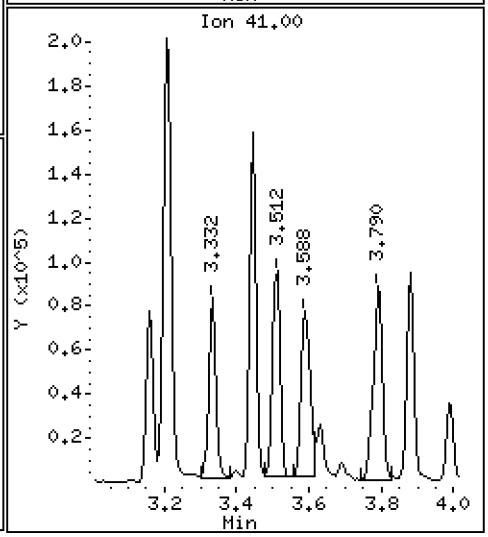












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 58

Date : 26-OCT-2016 07:30

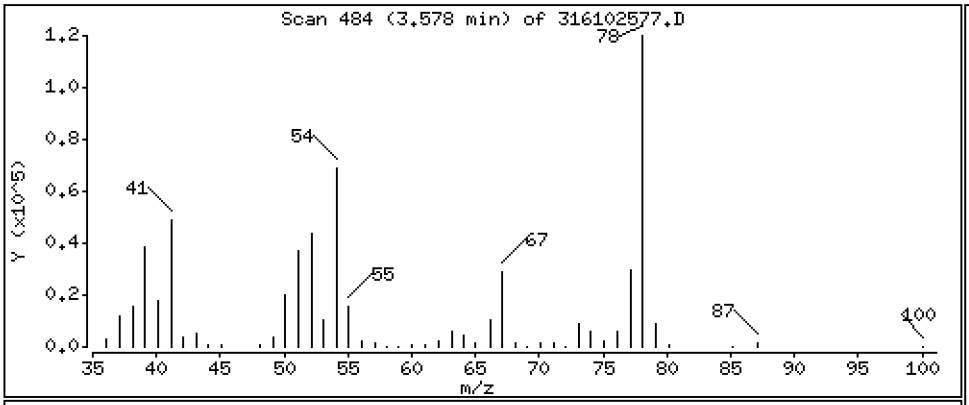
Client ID: 2184163001MS Instrument: ms03.i

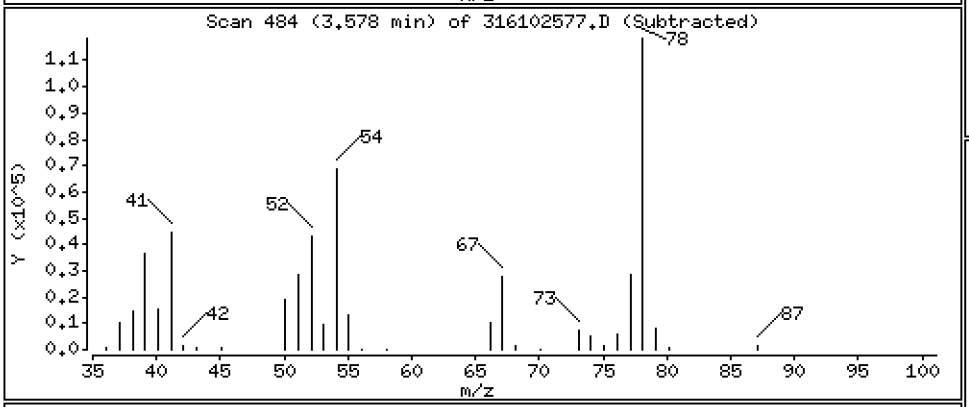
Sample Info: 2429373;;1;3;;MS;1;

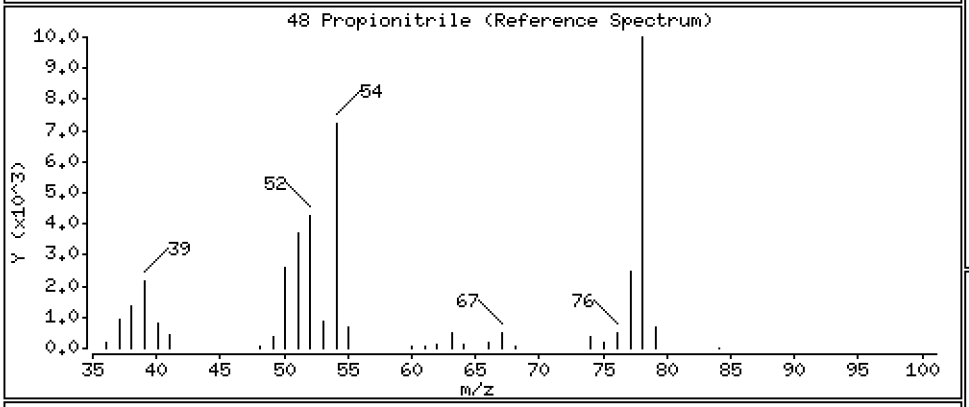
Purge Volume: 5.0 Operator: CJG

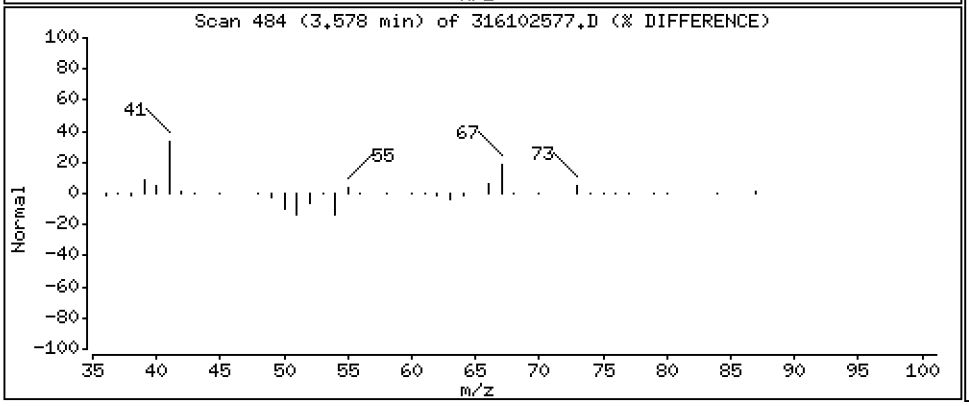
Column phase: DB-VRX Column diameter: 0.25

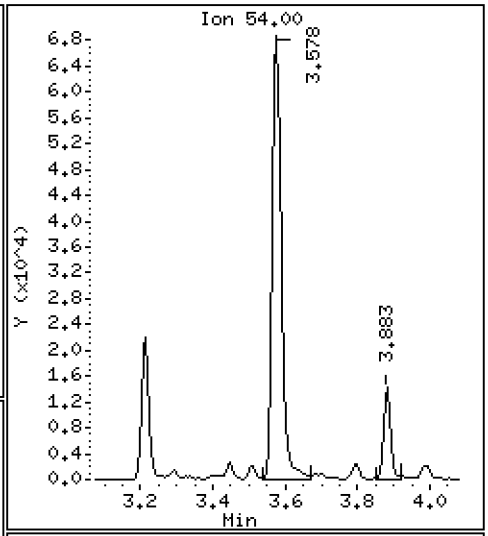
48 Propionitrile Concentration: 113.465 ug/L

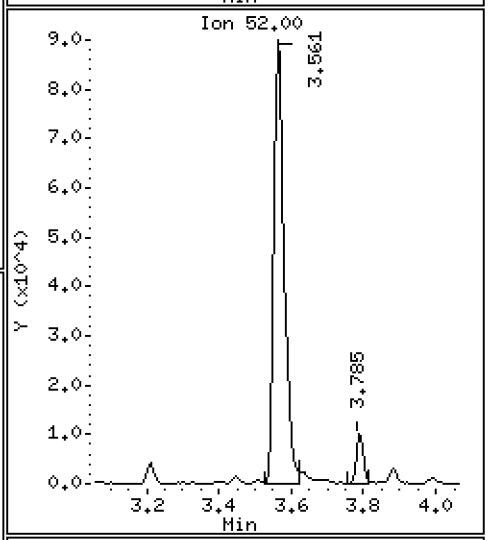


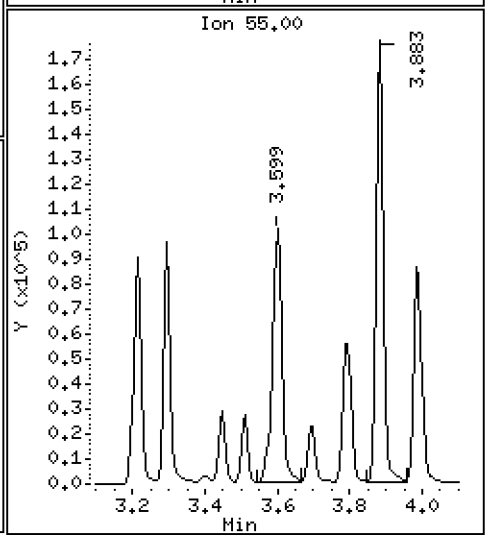












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 59

Date : 26-OCT-2016 07:30

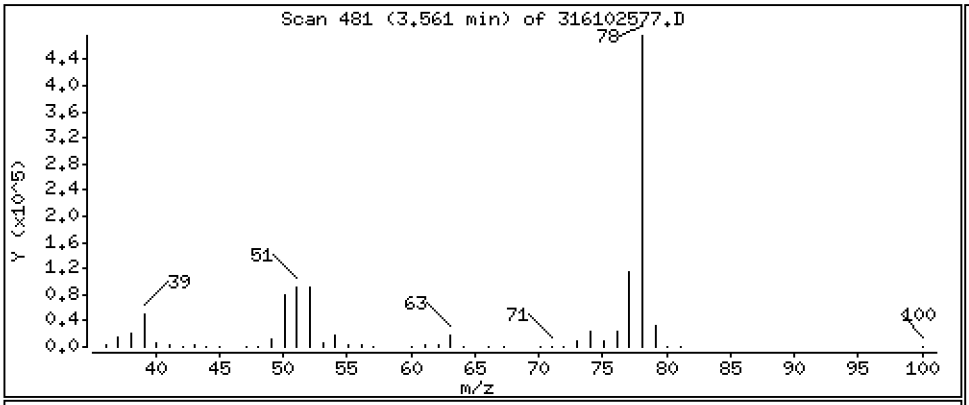
Client ID: 2184163001MS Instrument: ms03.i

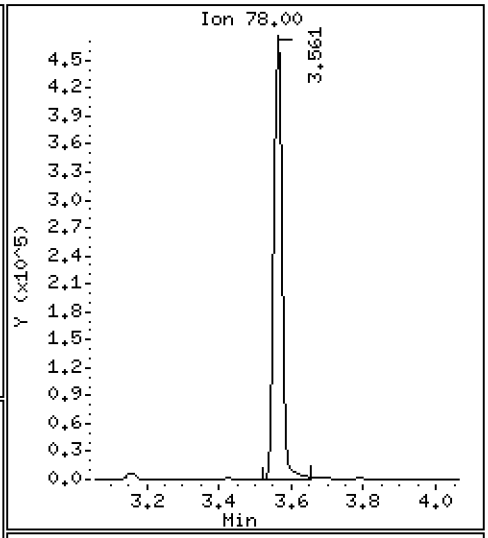
Sample Info: 2429373;;1;3;;MS;1;

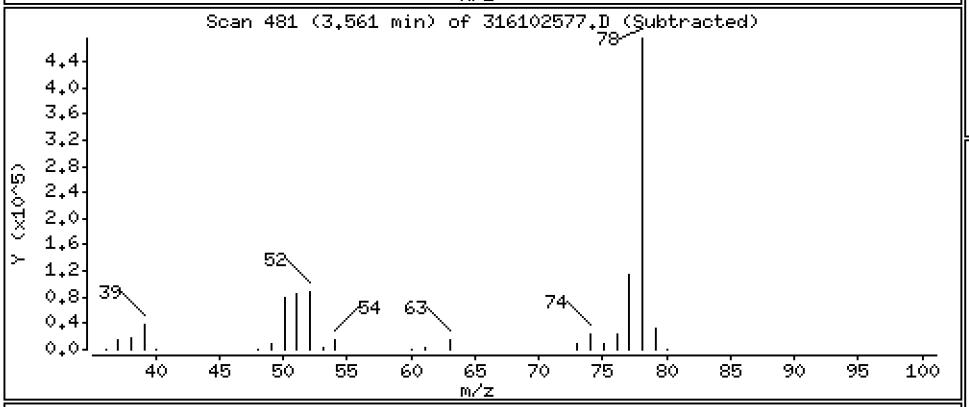
Purge Volume: 5.0 Operator: CJG

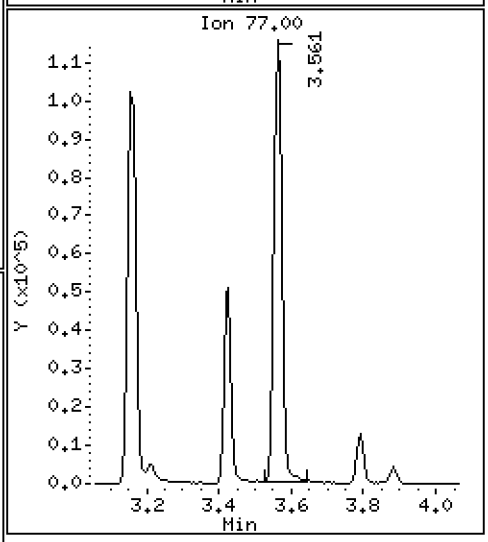
Column phase: DB-VRX Column diameter: 0.25

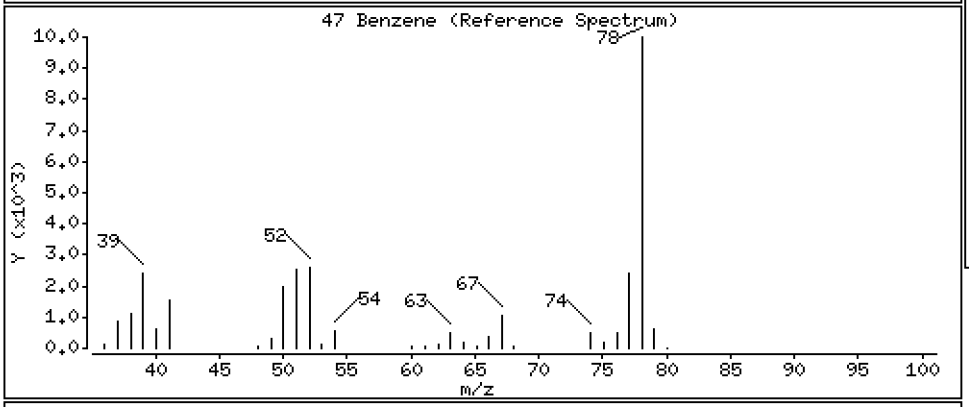
47 Benzene Concentration: 20.6462 ug/L

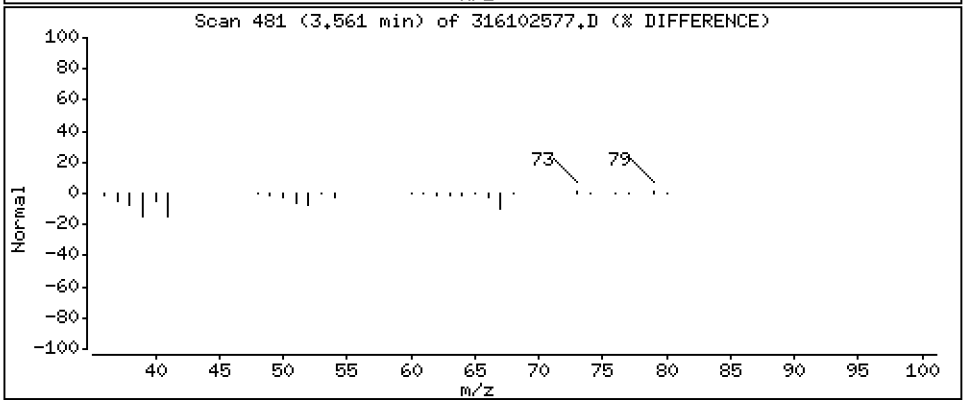












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 60

Date : 26-OCT-2016 07:30

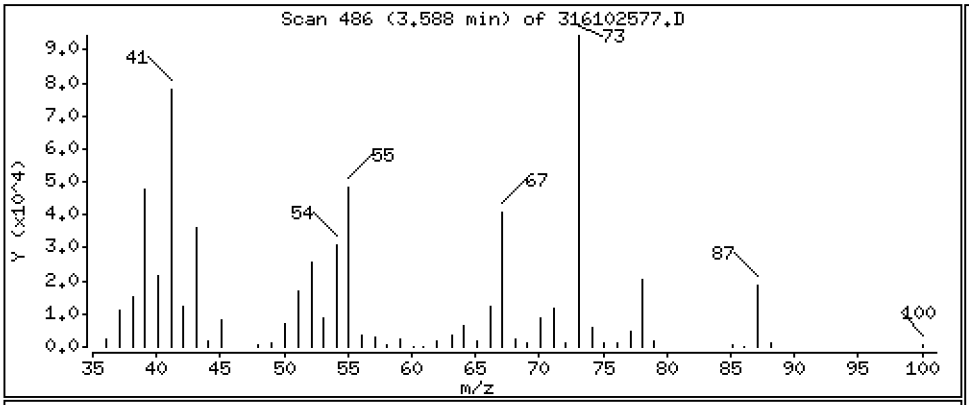
Client ID: 2184163001MS Instrument: ms03.i

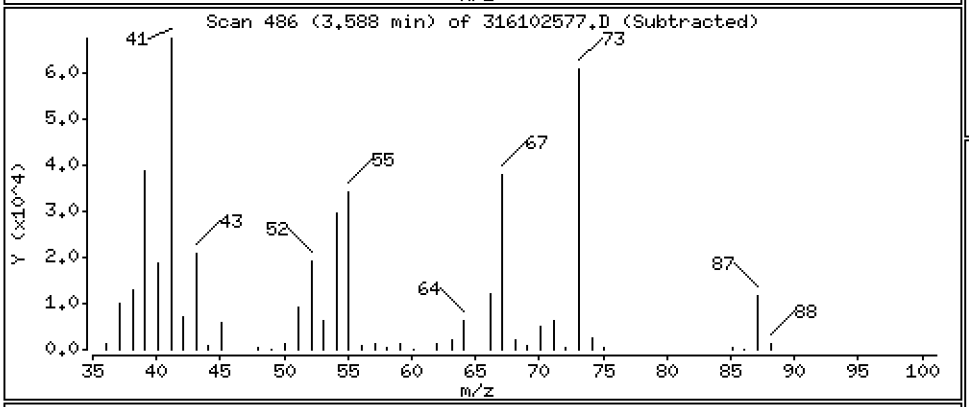
Sample Info: 2429373;;1;3;;MS;1;

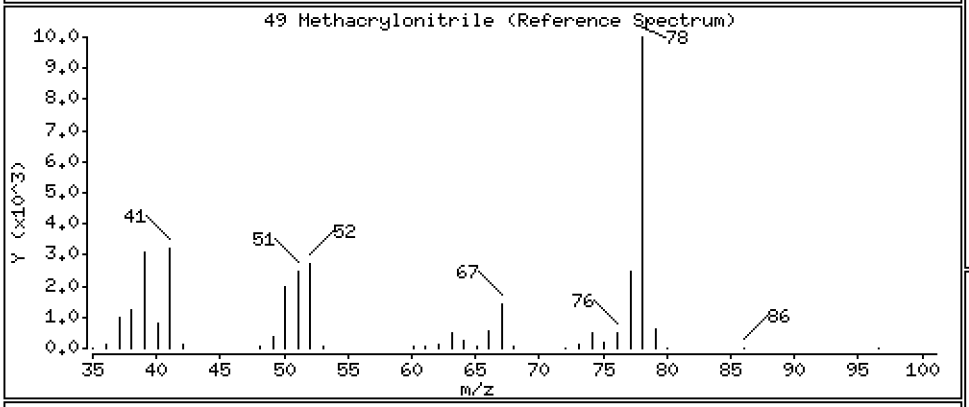
Purge Volume: 5.0 Operator: CJG

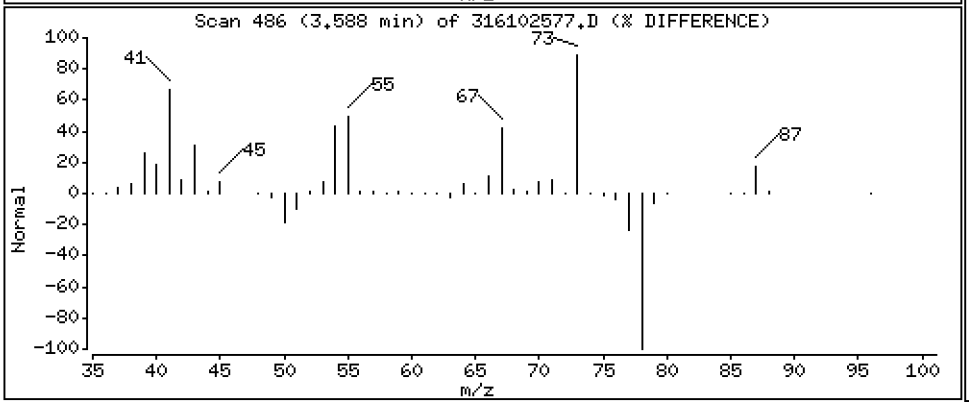
Column phase: DB-VRX Column diameter: 0.25

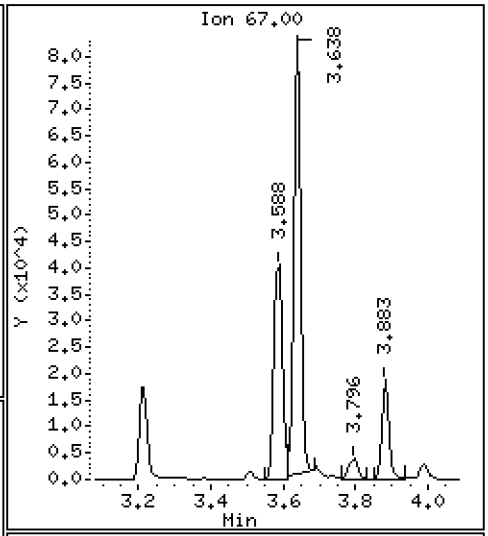
49 Methacrylonitrile Concentration: 20.4367 ug/L

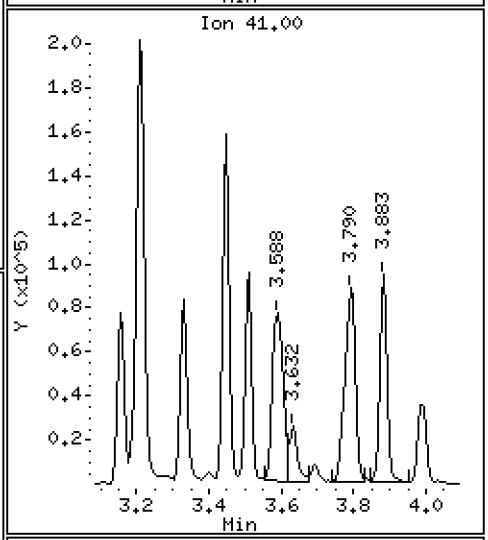


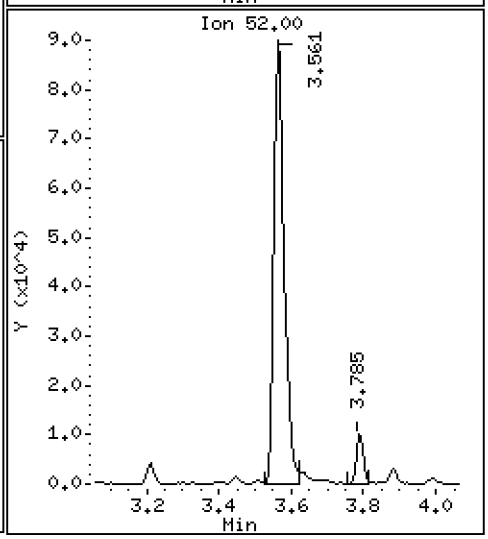












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 61

Date : 26-OCT-2016 07:30

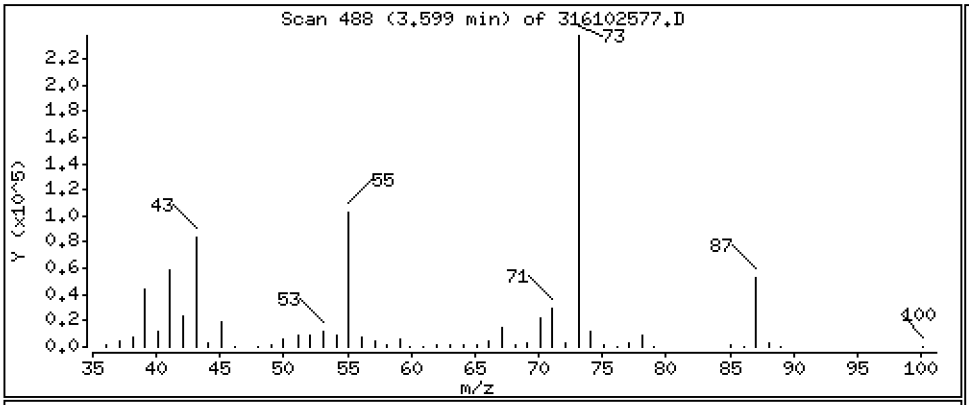
Client ID: 2184163001MS Instrument: ms03.i

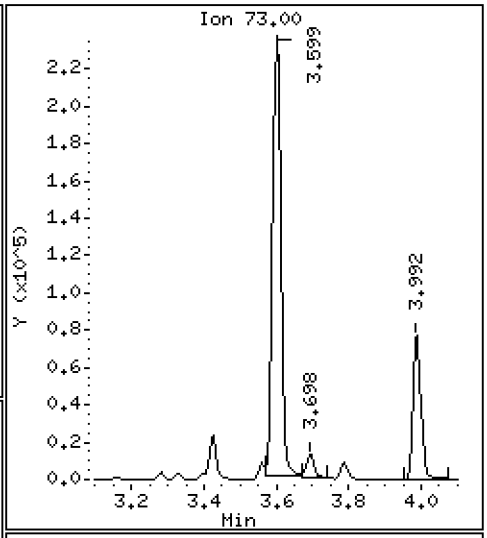
Sample Info: 2429373;;1;3;;MS;1;

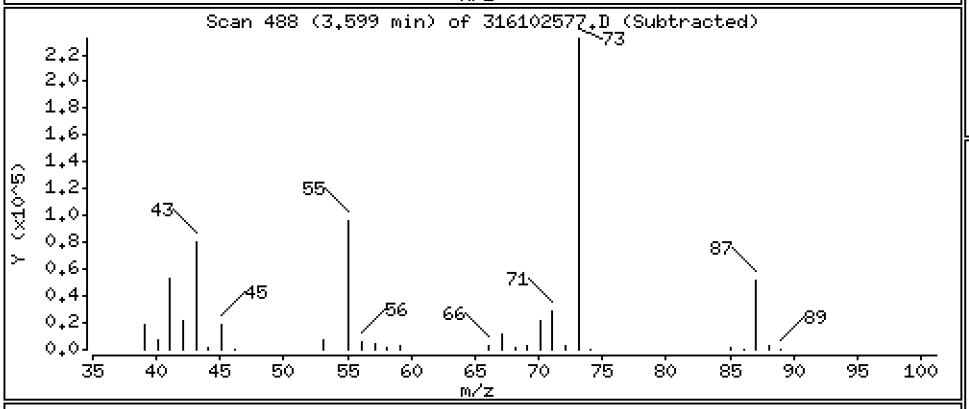
Purge Volume: 5.0 Operator: CJG

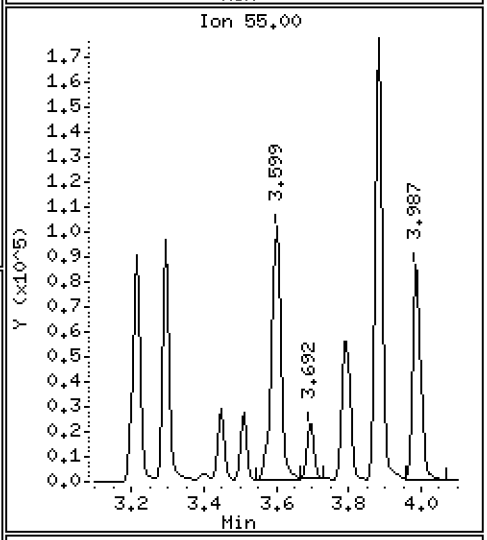
Column phase: DB-VRX Column diameter: 0.25

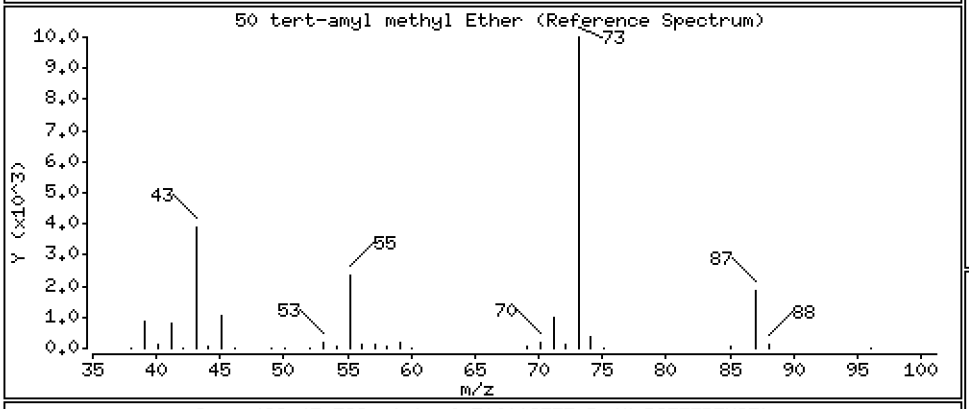
50 tert-amyl methyl Ether Concentration: 19.8890 ug/L

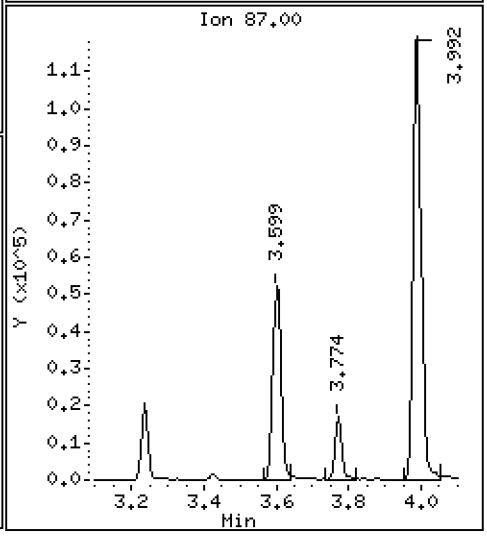


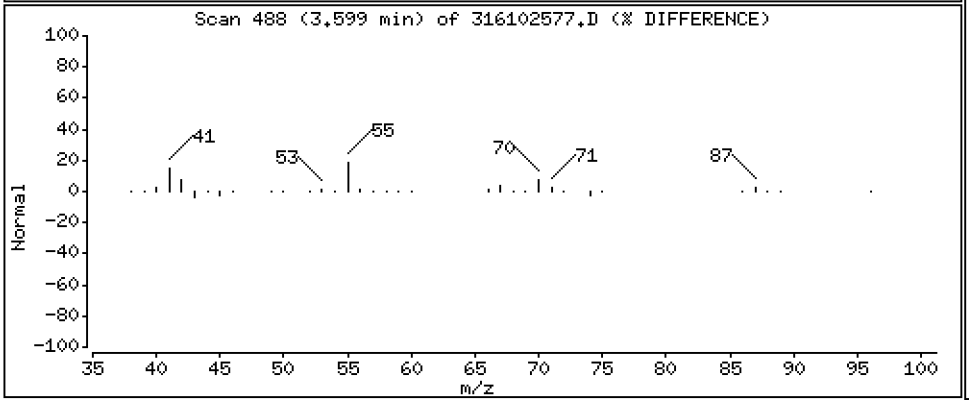












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 62

Date : 26-OCT-2016 07:30

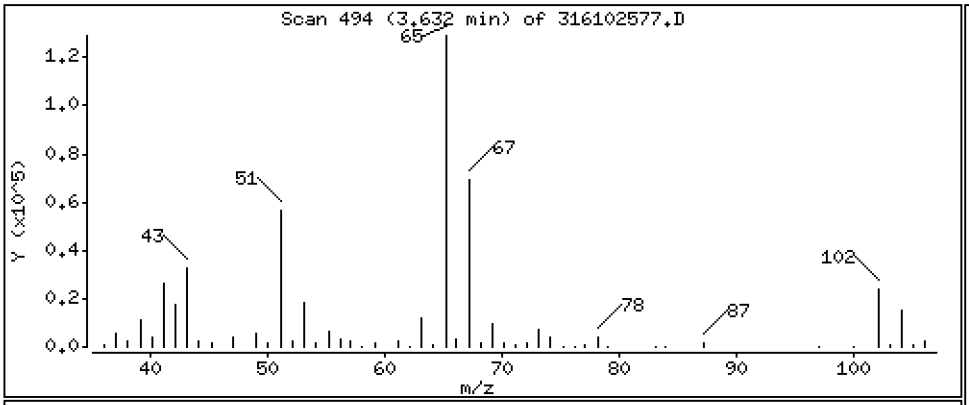
Client ID: 2184163001MS Instrument: ms03.i

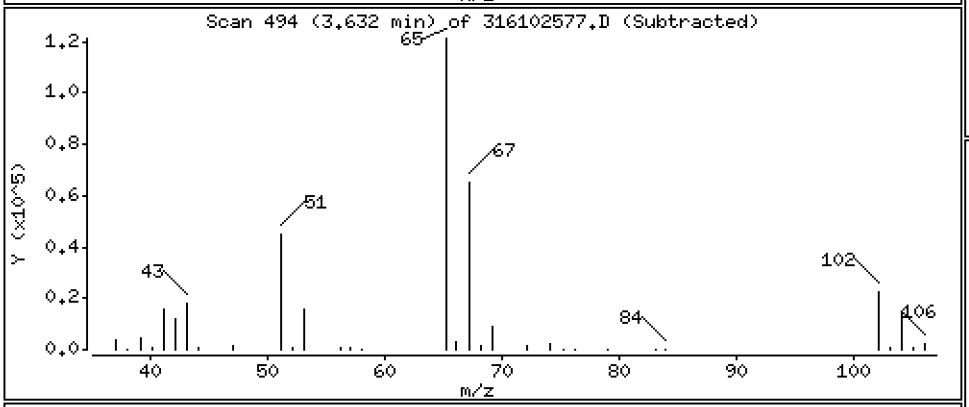
Sample Info: 2429373;;1;3;;MS;1;

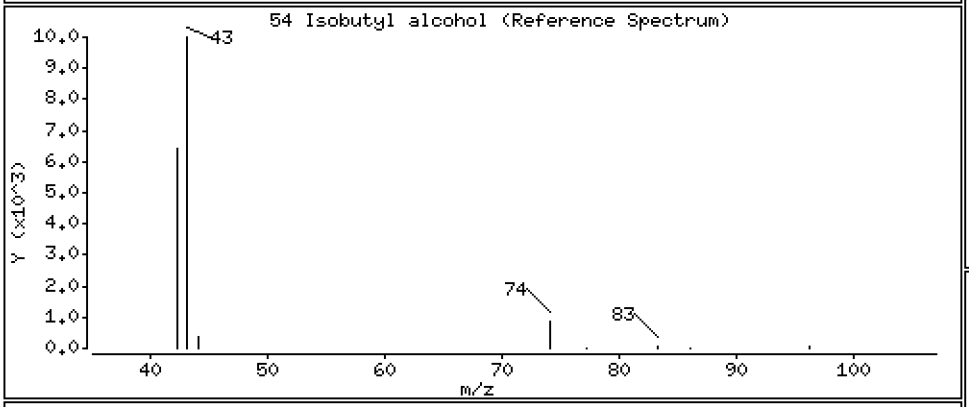
Purge Volume: 5.0 Operator: CJG

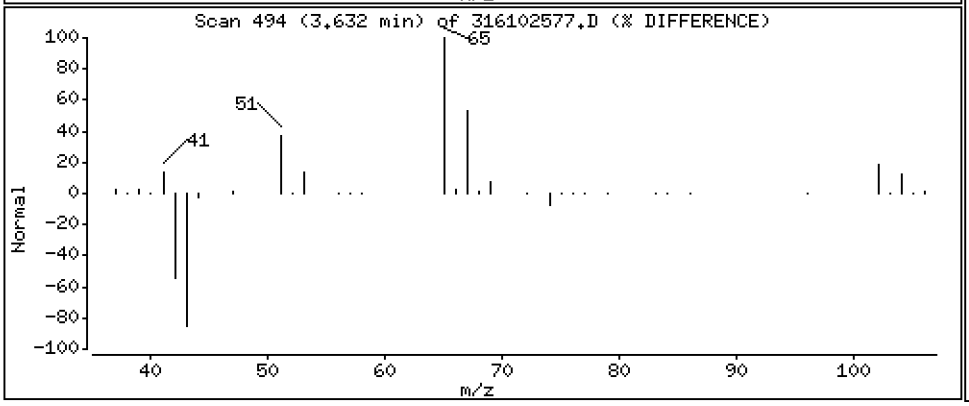
Column phase: DB-VRX Column diameter: 0.25

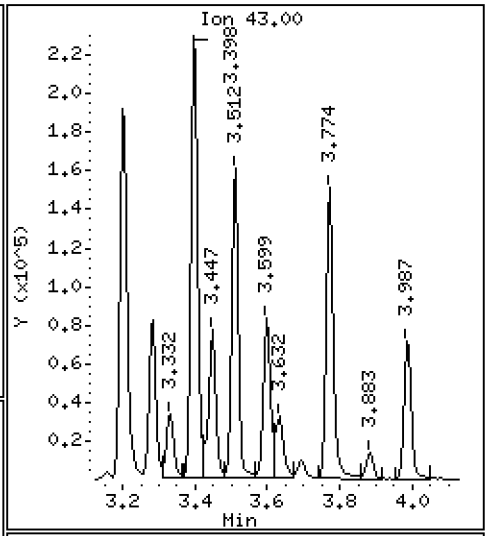
54 Isobutyl alcohol Concentration: 316.897 ug/L

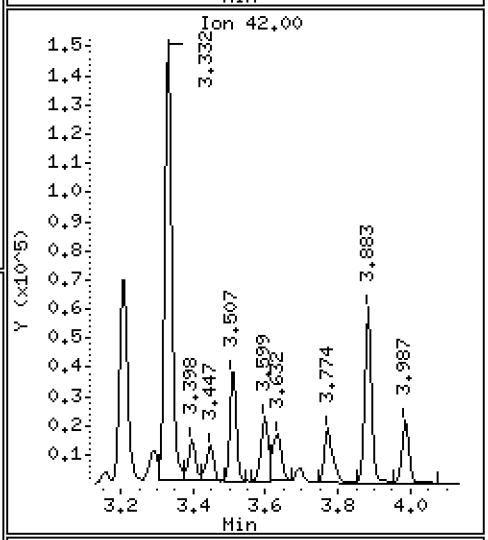


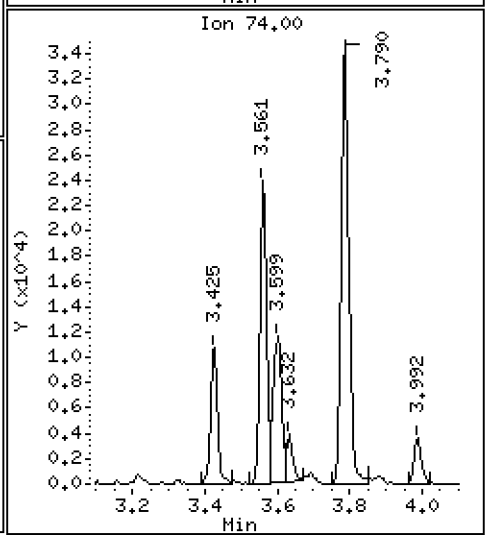












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 63

Date : 26-OCT-2016 07:30

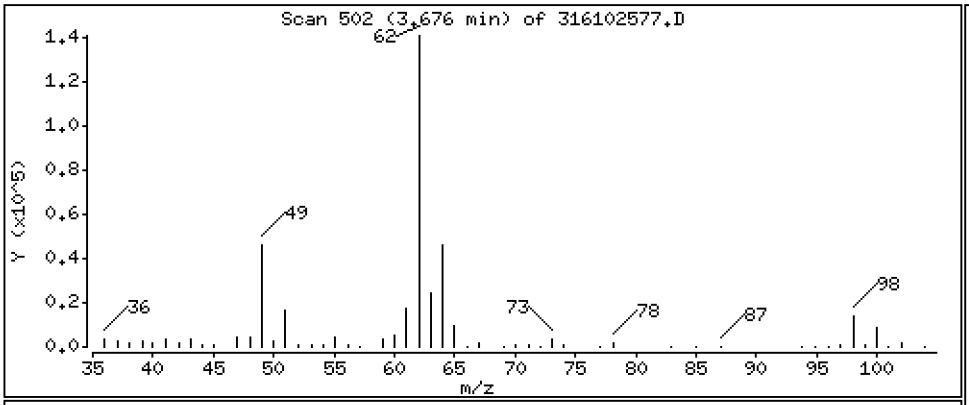
Client ID: 2184163001MS Instrument: ms03.i

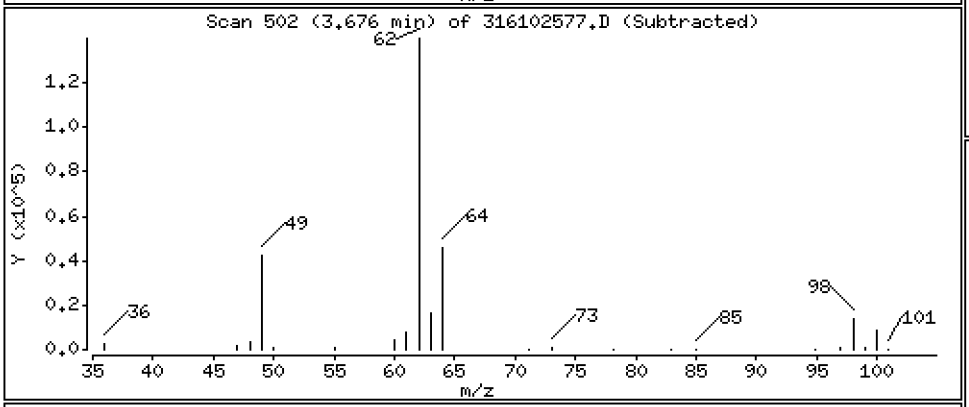
Sample Info: 2429373;;1;3;;MS;1;

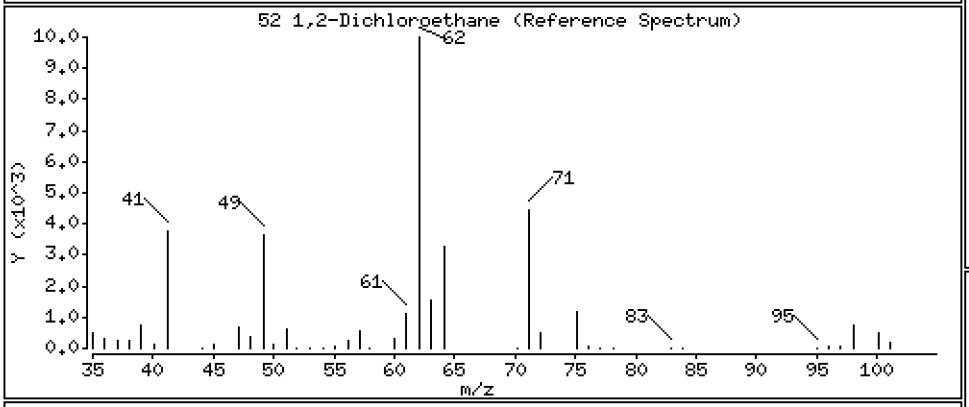
Purge Volume: 5.0 Operator: CJG

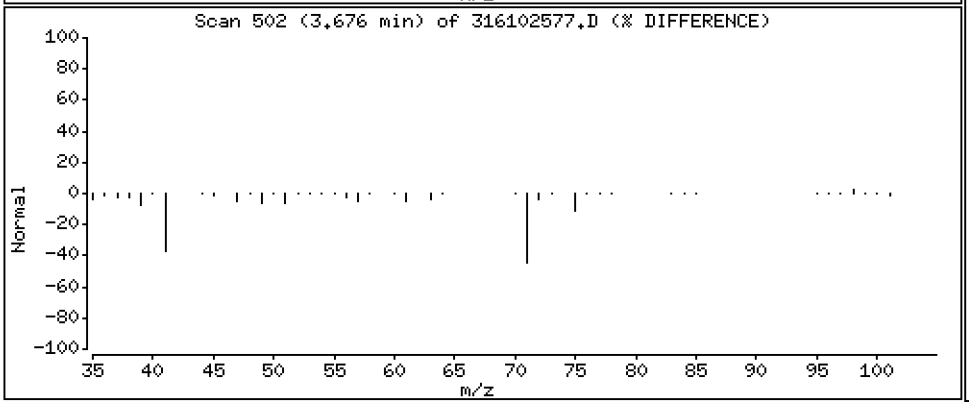
Column phase: DB-VRX Column diameter: 0.25

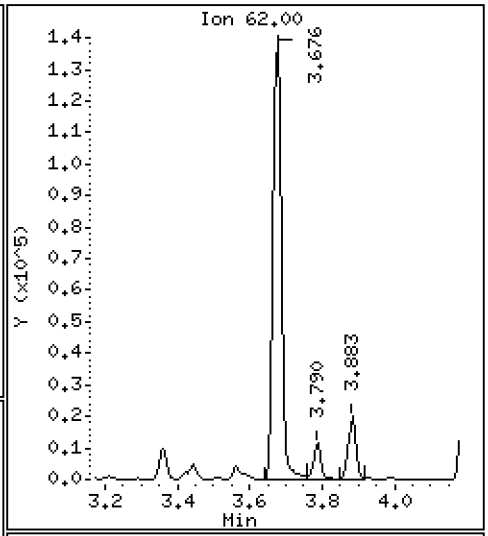
52 1,2-Dichloroethane Concentration: 20.6857 ug/L

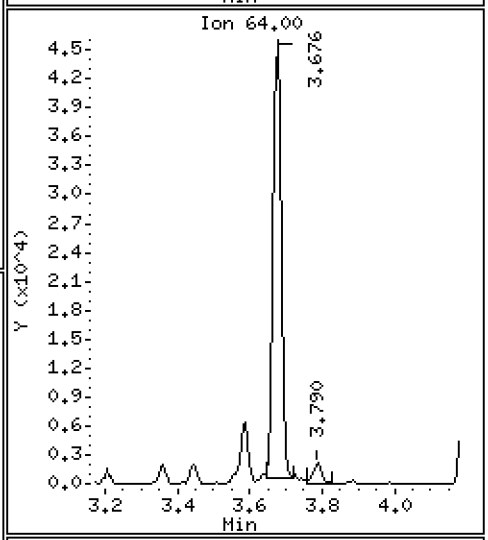


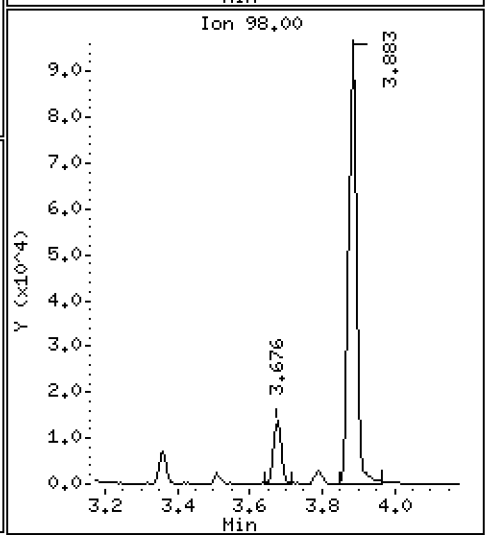












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 64

Date : 26-OCT-2016 07:30

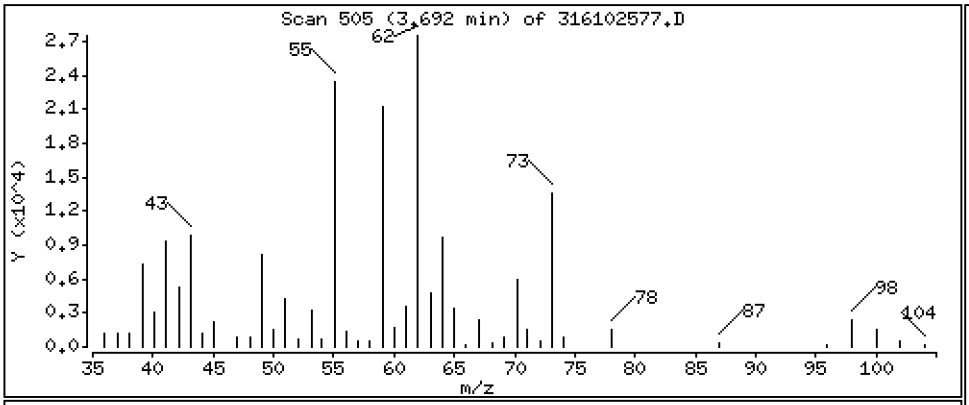
Client ID: 2184163001MS Instrument: ms03.i

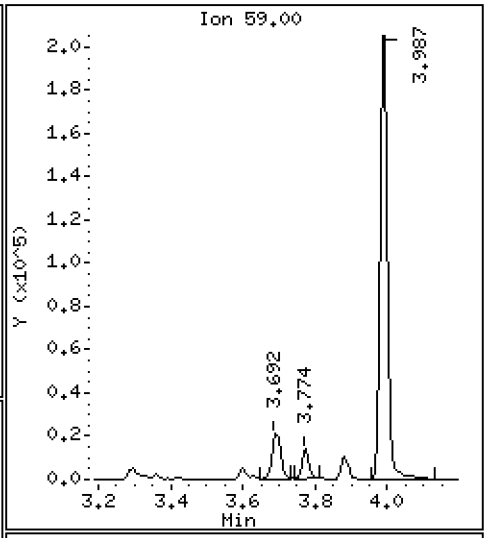
Sample Info: 2429373:1:3::MS:1:

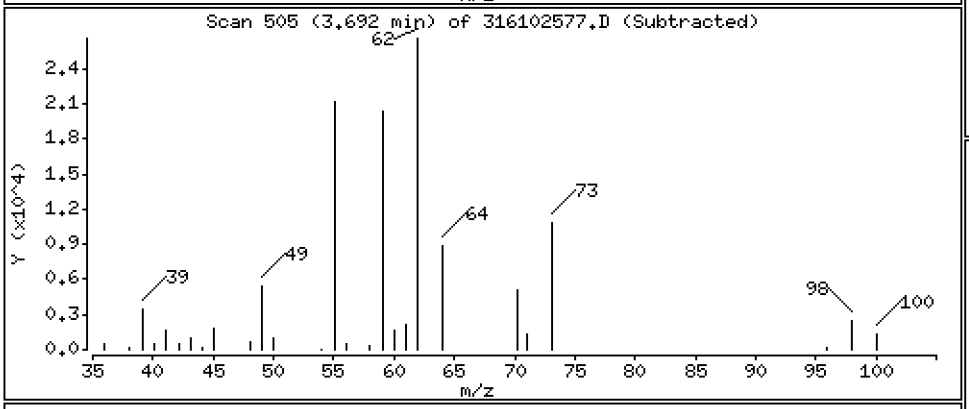
Purge Volume: 5.0 Operator: CJG

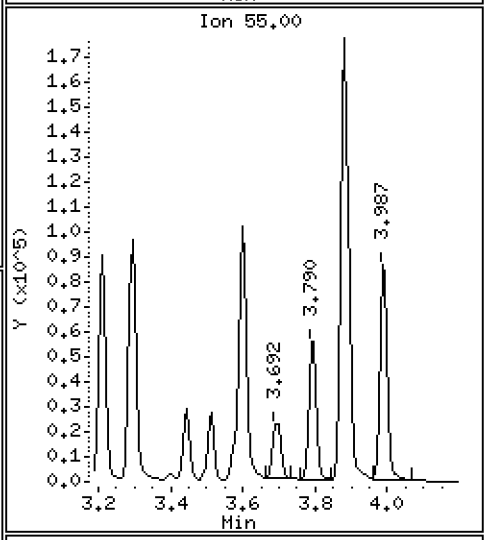
Column phase: DB-VRX Column diameter: 0.25

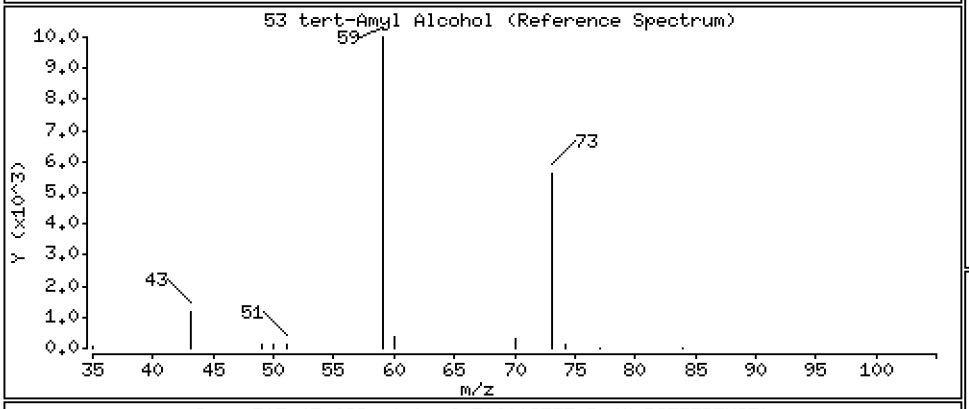
53 tert-Amyl Alcohol Concentration: 97.2719 ug/L

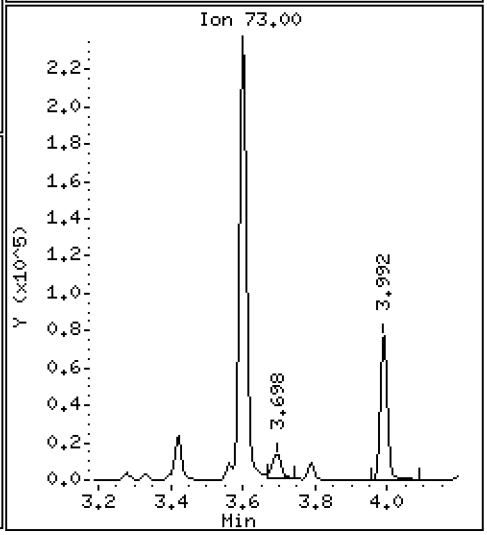


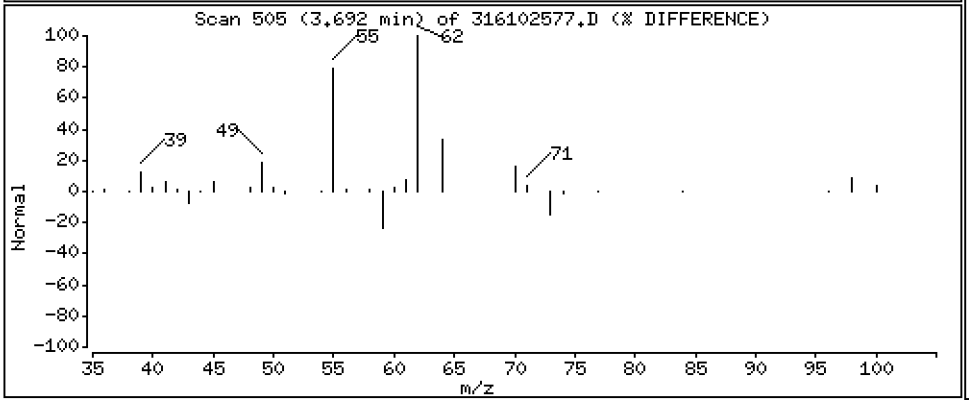












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 65

Date : 26-OCT-2016 07:30

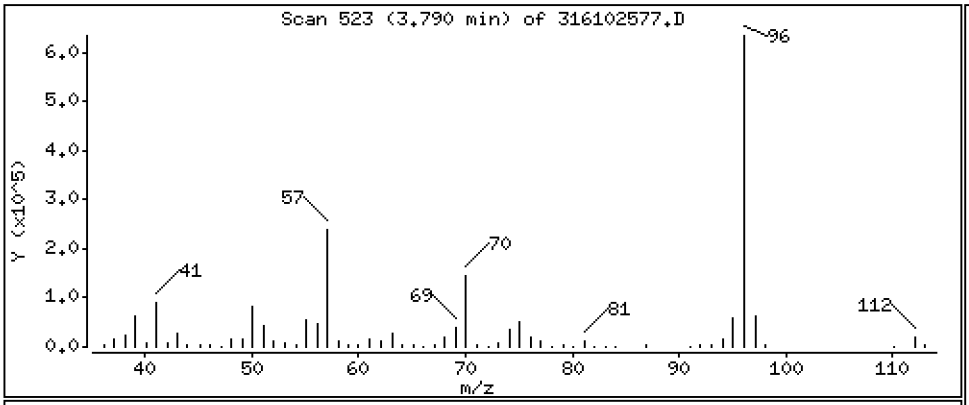
Client ID: 2184163001MS Instrument: ms03.i

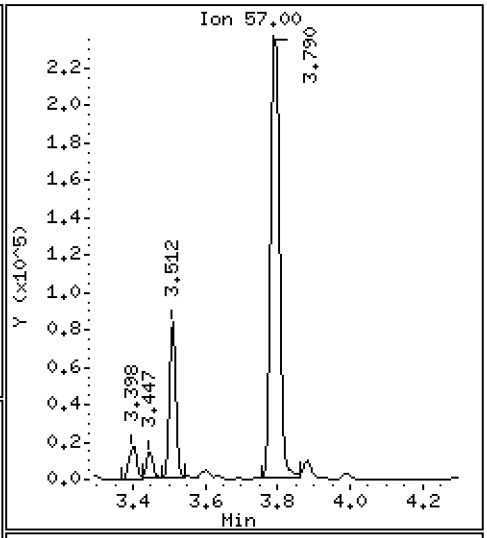
Sample Info: 2429373;;1;3;;MS;1;

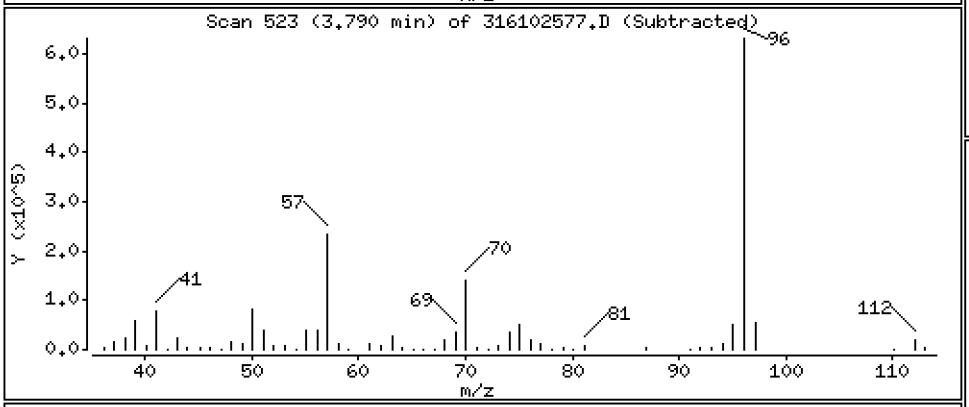
Purge Volume: 5.0 Operator: CJG

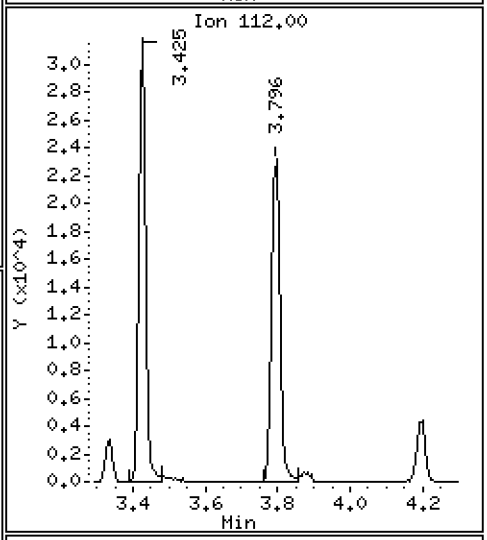
Column phase: DB-VRX Column diameter: 0.25

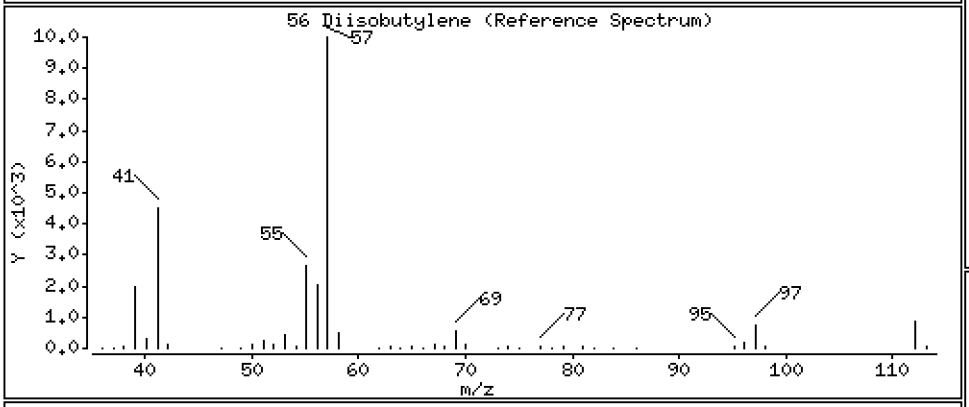
56 Diisobutylene Concentration: 19.7213 ug/L

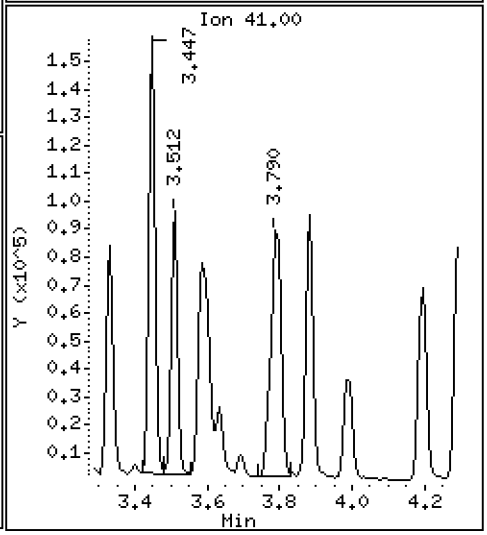


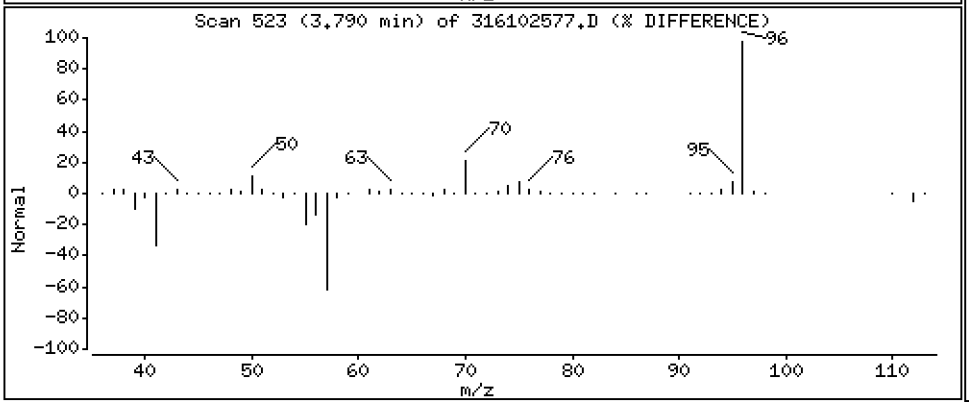












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 66

Date : 26-OCT-2016 07:30

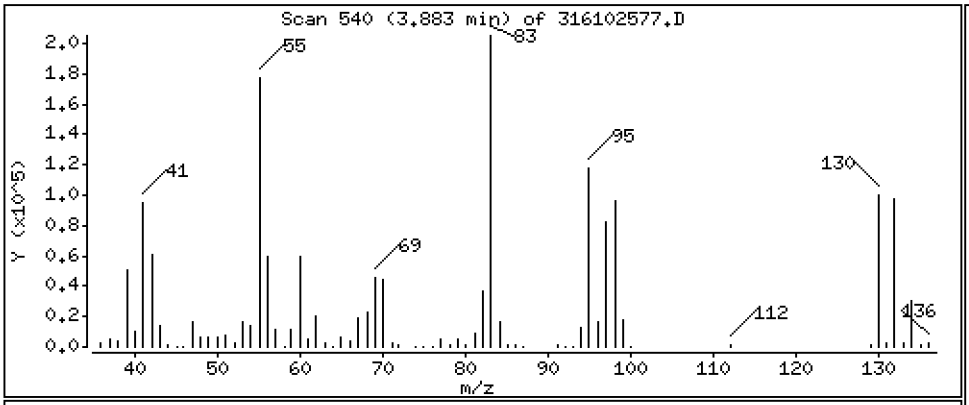
Client ID: 2184163001MS Instrument: ms03.i

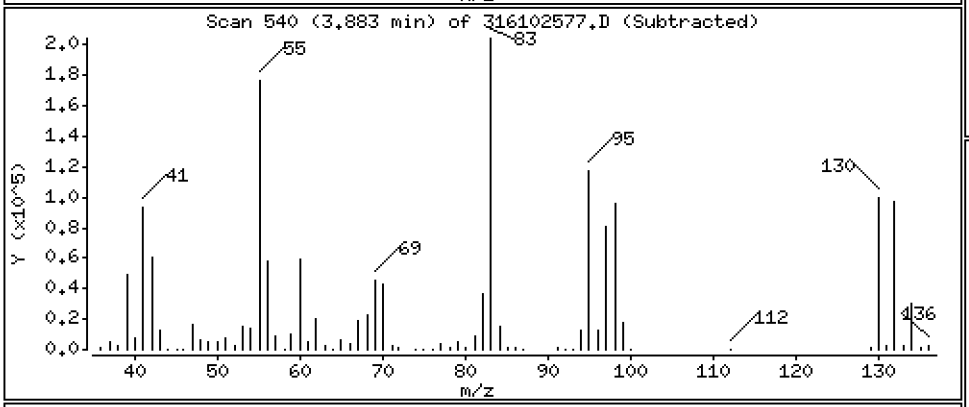
Sample Info: 2429373;;1;3;;MS;1;

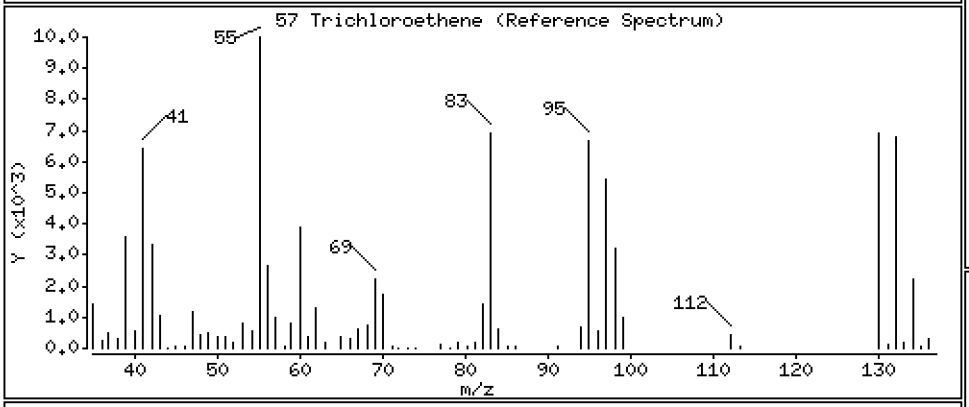
Purge Volume: 5.0 Operator: CJG

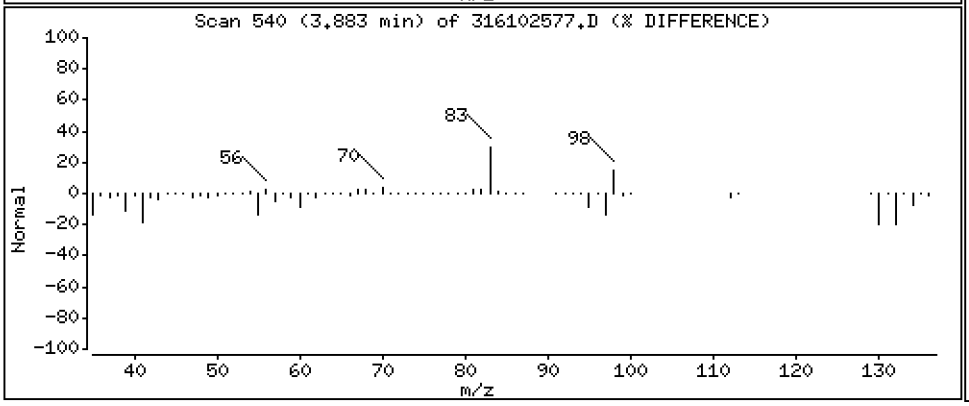
Column phase: DB-VRX Column diameter: 0.25

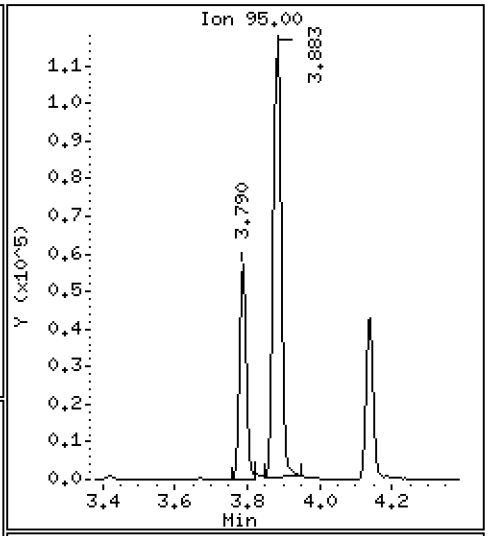
57 Trichloroethene Concentration: 20.2839 ug/L

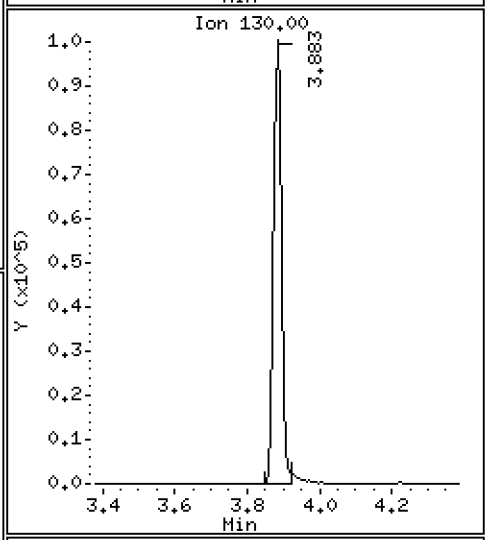


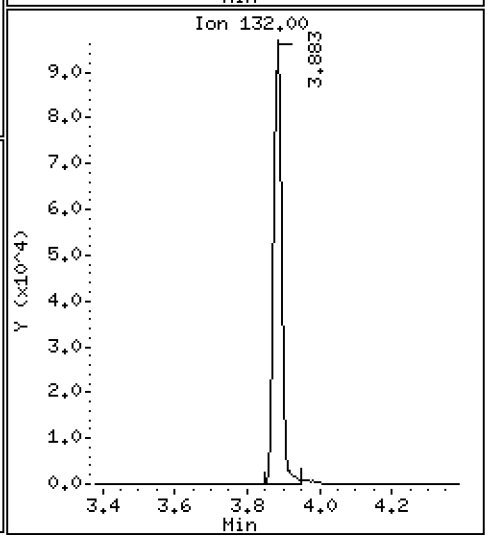












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 67

Date : 26-OCT-2016 07:30

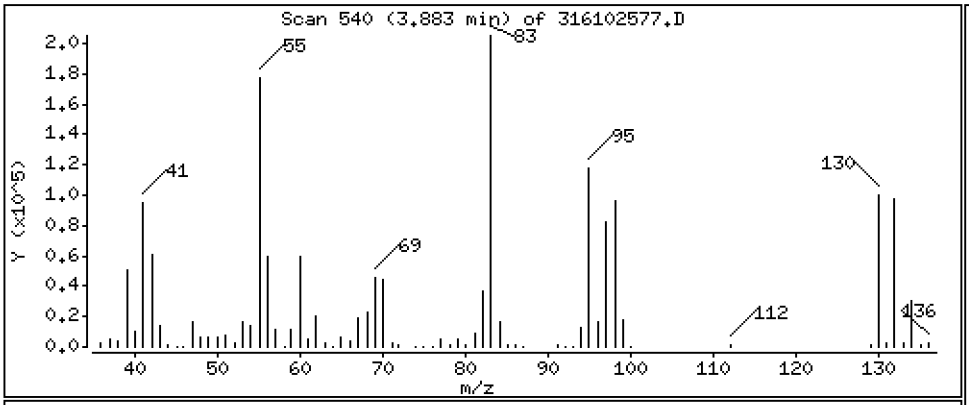
Client ID: 2184163001MS Instrument: ms03.i

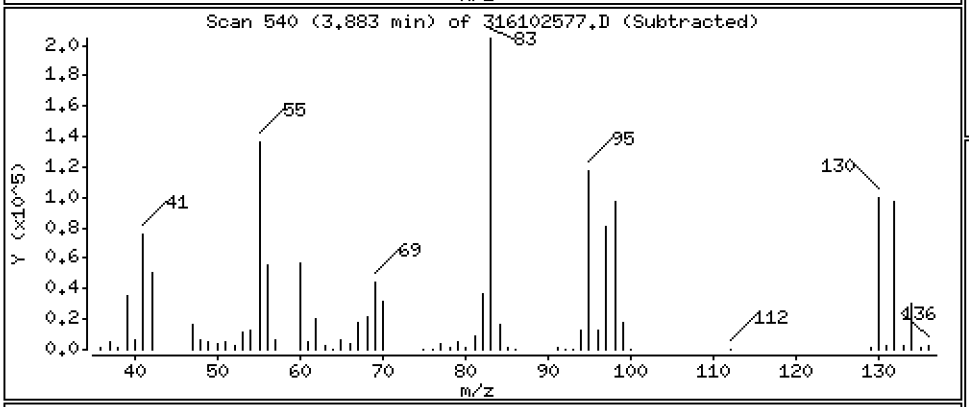
Sample Info: 2429373;;1;3;;MS;1;

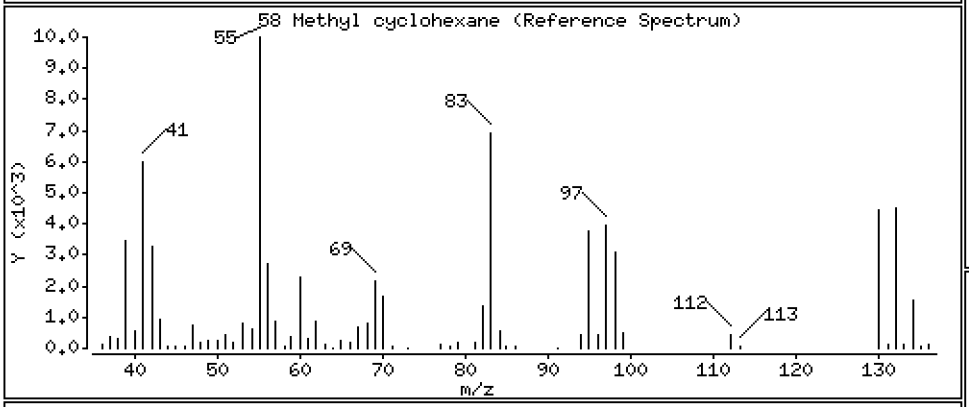
Purge Volume: 5.0 Operator: CJG

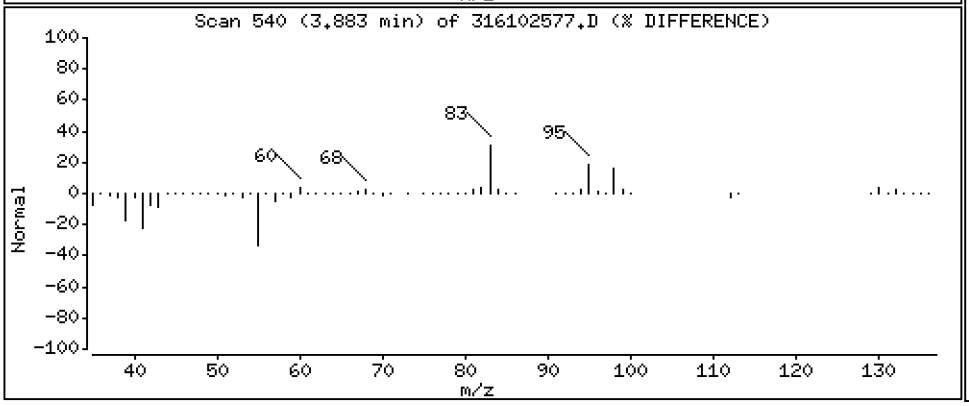
Column phase: DB-VRX Column diameter: 0.25

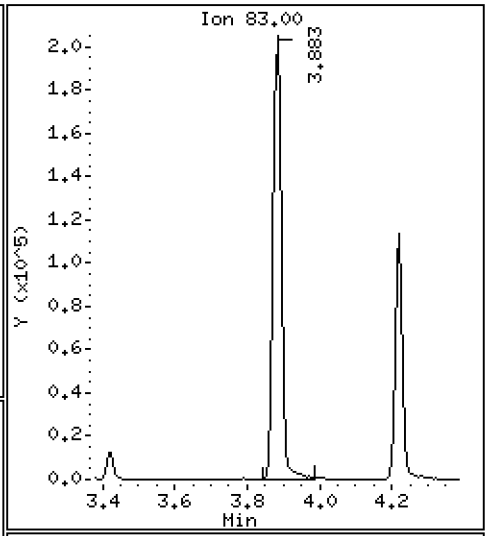
58 Methyl cyclohexane Concentration: 22.4849 ug/L

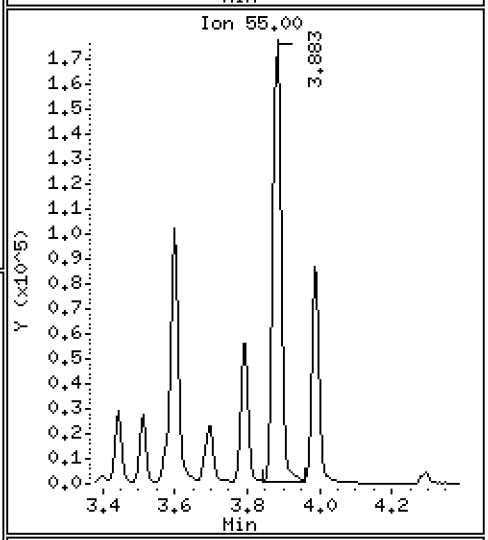


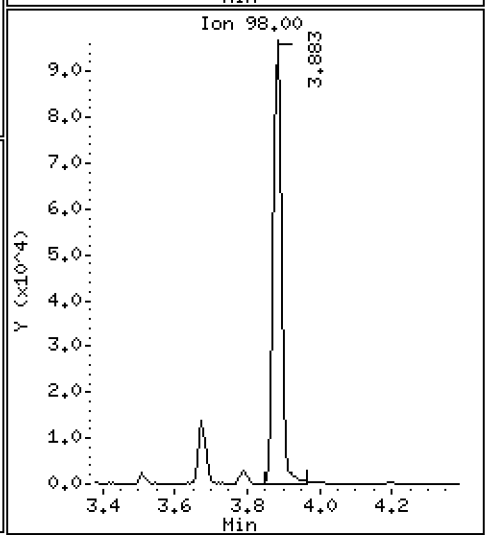












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 68

Date : 26-OCT-2016 07:30

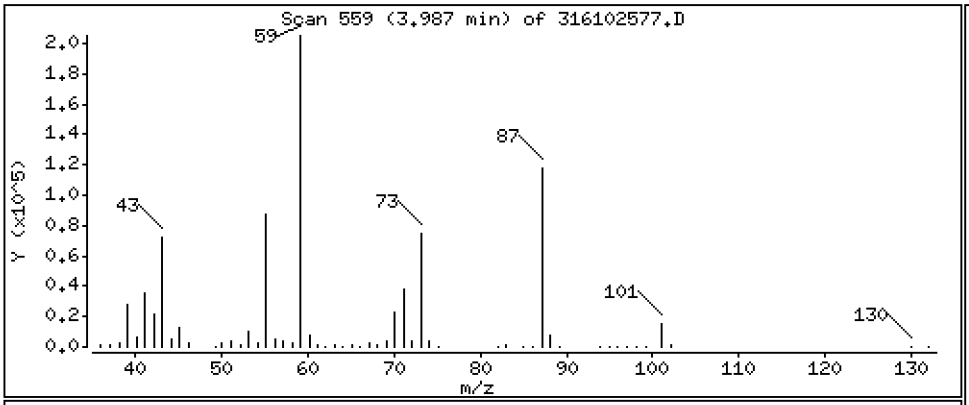
Client ID: 2184163001MS Instrument: ms03.i

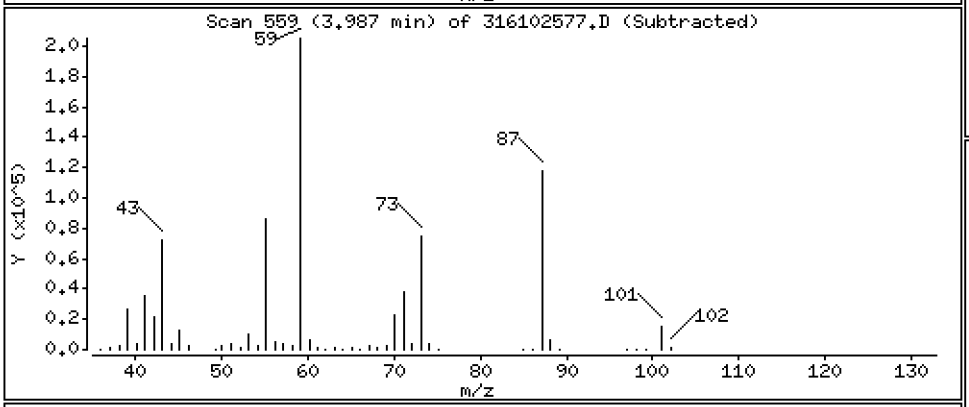
Sample Info: 2429373;;1;3;;MS;1;

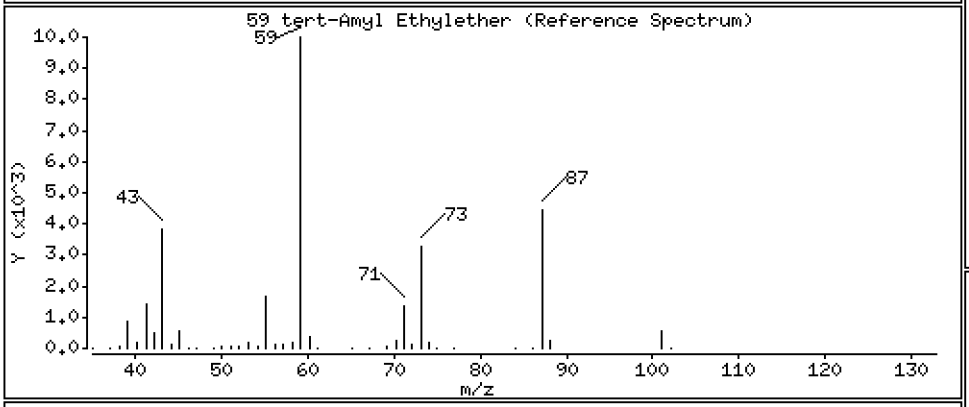
Purge Volume: 5.0 Operator: CJG

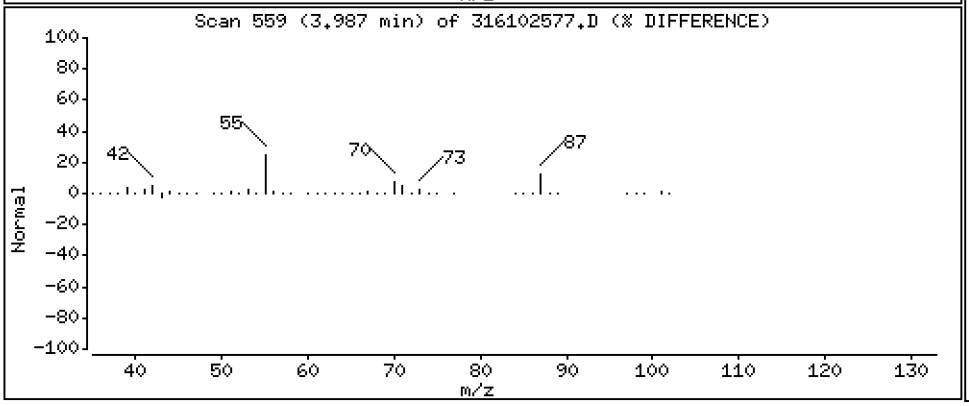
Column phase: DB-VRX Column diameter: 0.25

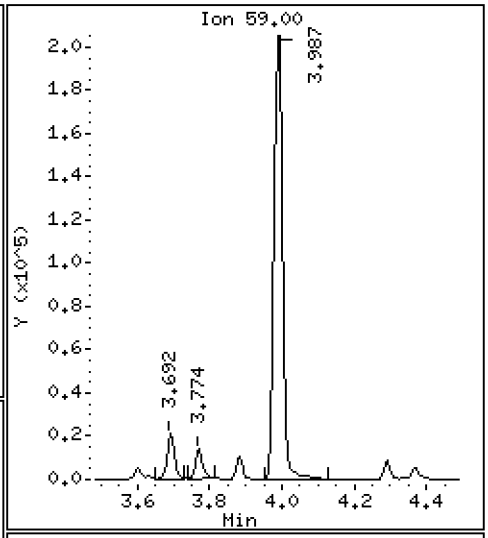
59 tert-Amyl Ethylether Concentration: 20.3742 ug/L

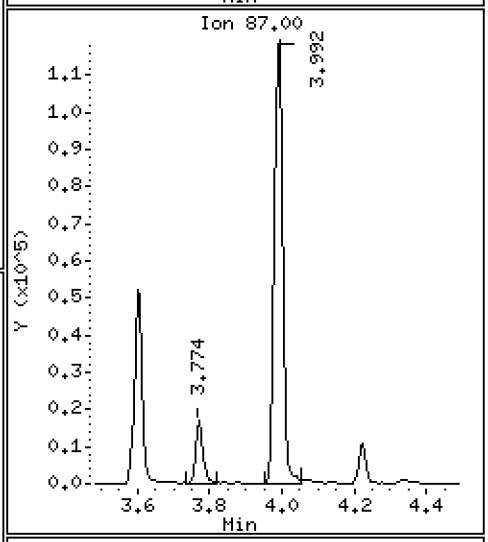


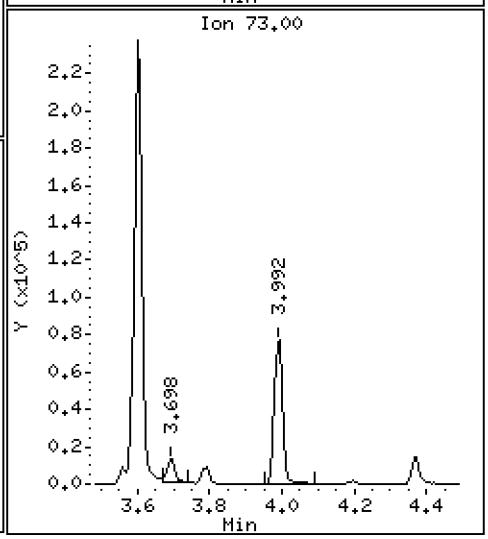












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 69

Date : 26-OCT-2016 07:30

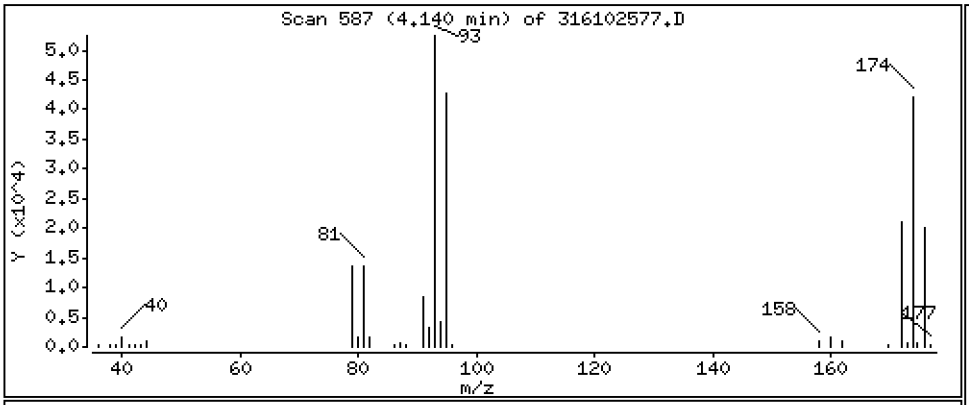
Client ID: 2184163001MS Instrument: ms03.i

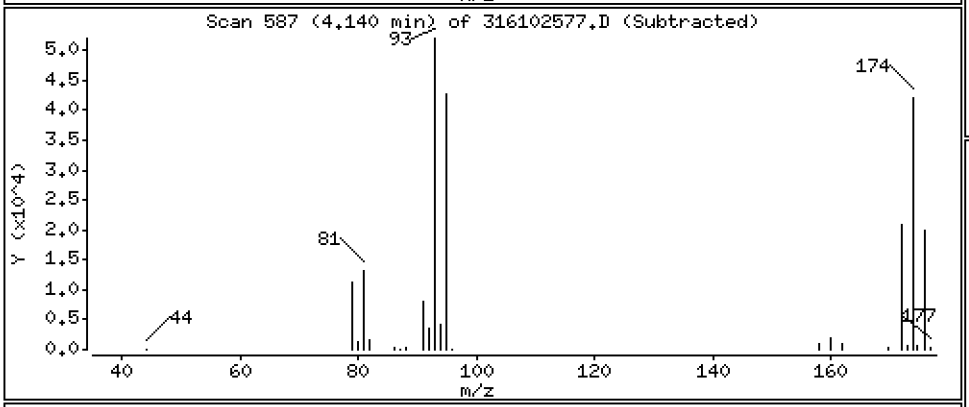
Sample Info: 2429373;;1;3;;MS;1;

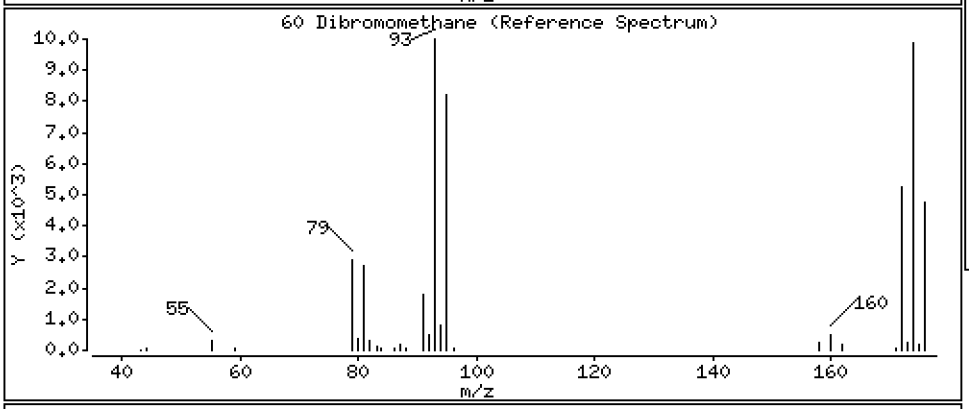
Purge Volume: 5.0 Operator: CJG

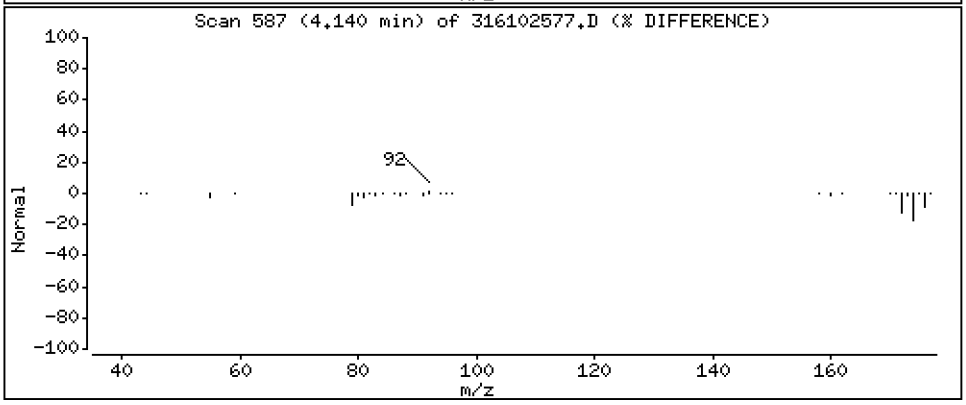
Column phase: DB-VRX Column diameter: 0.25

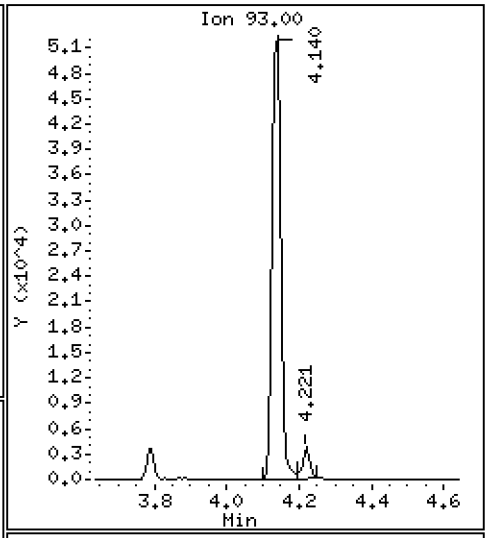
60 Dibromomethane Concentration: 19.8381 ug/L

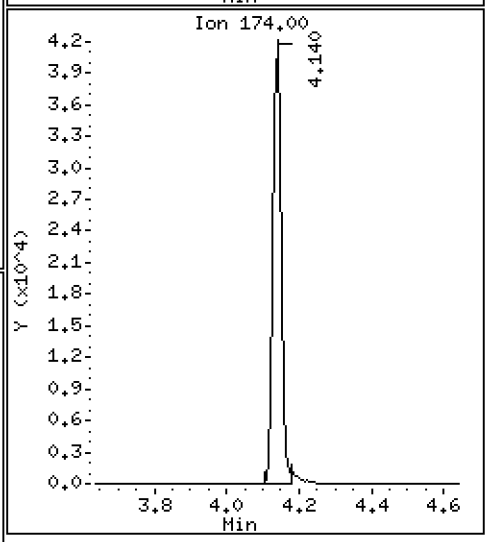












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 70

Date : 26-OCT-2016 07:30

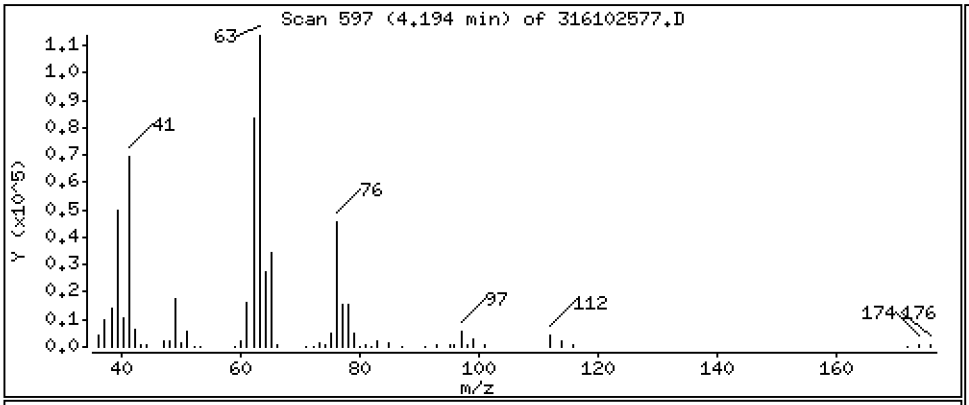
Client ID: 2184163001MS Instrument: ms03.i

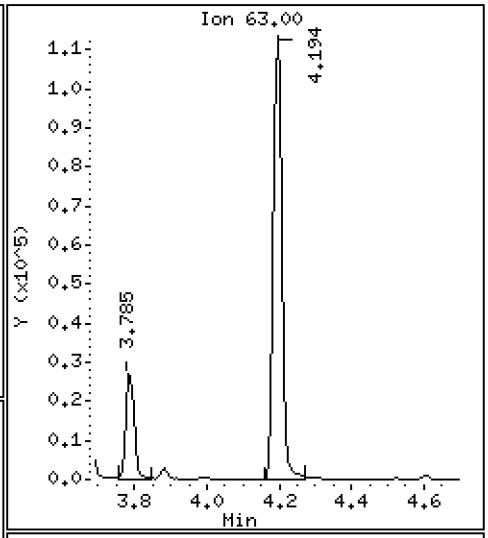
Sample Info: 2429373;;1;3;;MS;1;

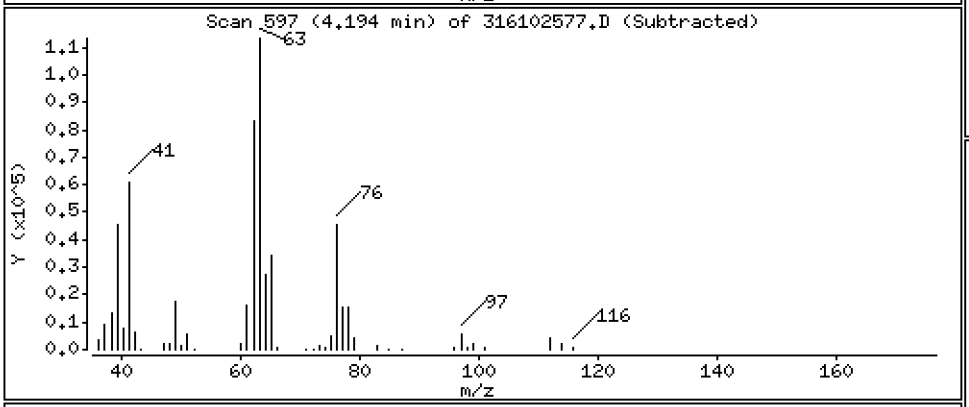
Purge Volume: 5.0 Operator: CJG

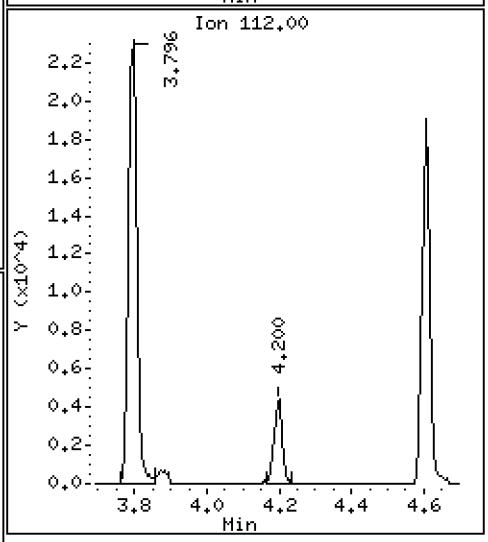
Column phase: DB-VRX Column diameter: 0.25

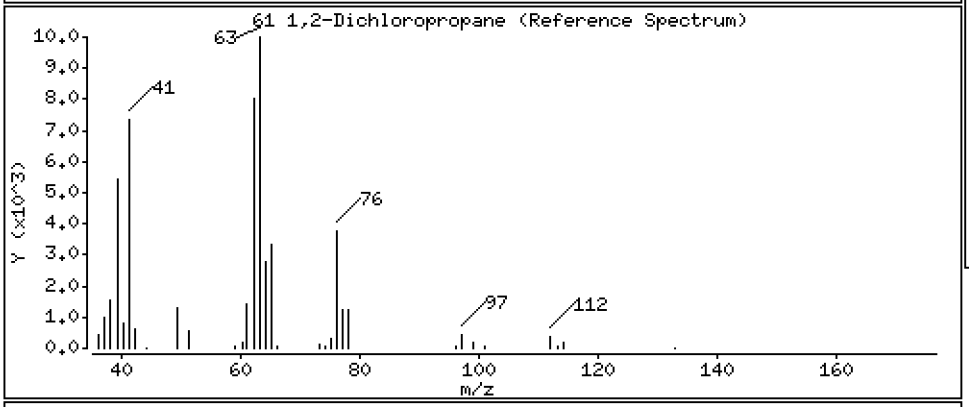
61 1,2-Dichloropropane Concentration: 21.0756 ug/L

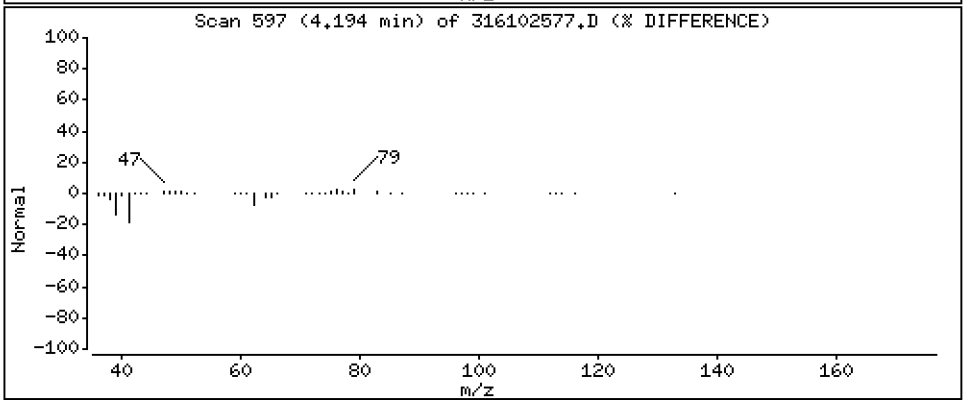












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 71

Date : 26-OCT-2016 07:30

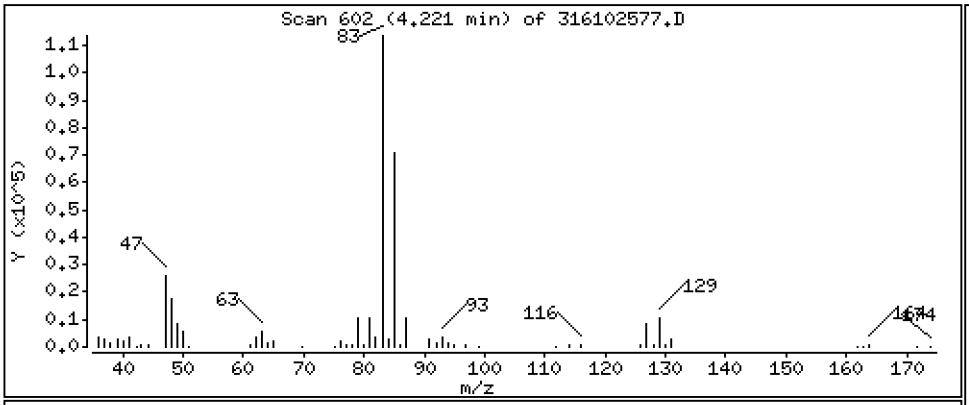
Client ID: 2184163001MS Instrument: ms03.i

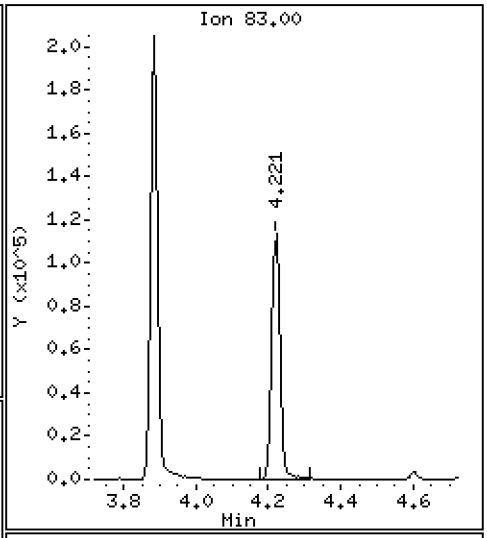
Sample Info: 2429373:1:3::MS:1:

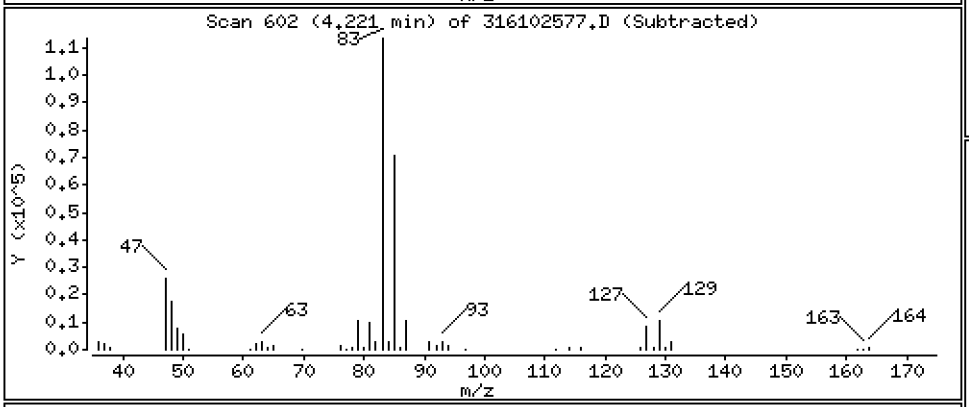
Purge Volume: 5.0 Operator: CJG

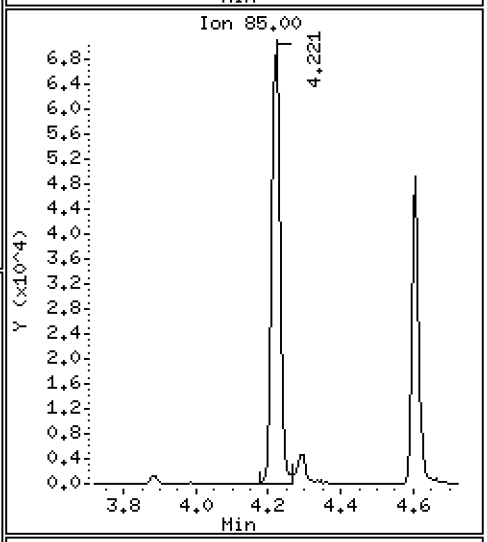
Column phase: DB-VRX Column diameter: 0.25

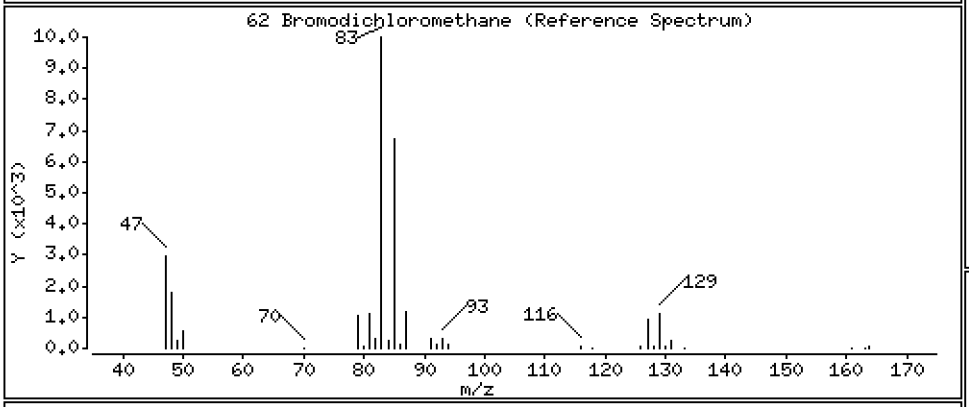
62 Bromodichloromethane Concentration: 20.5202 ug/L

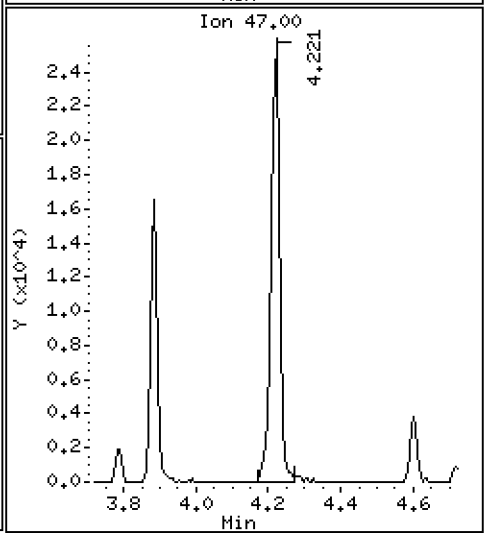


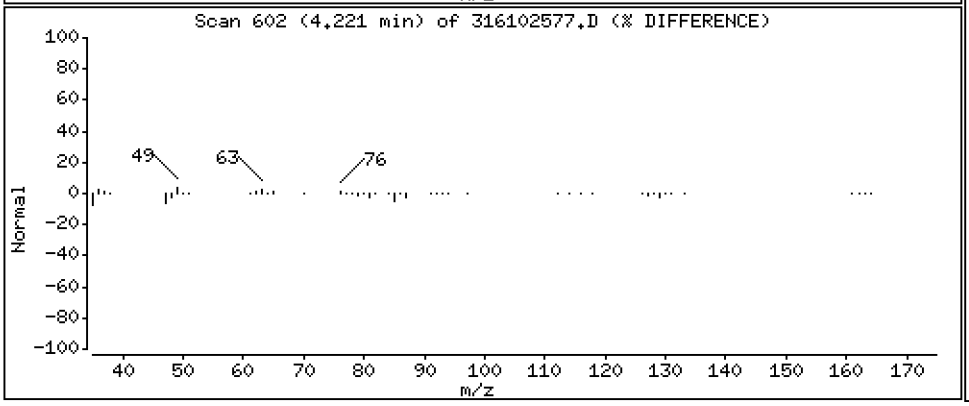












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 72

Date : 26-OCT-2016 07:30

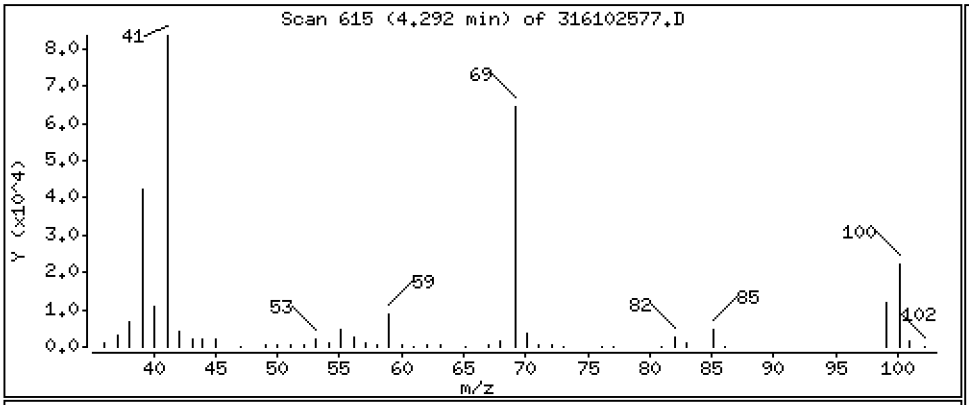
Client ID: 2184163001MS Instrument: ms03.i

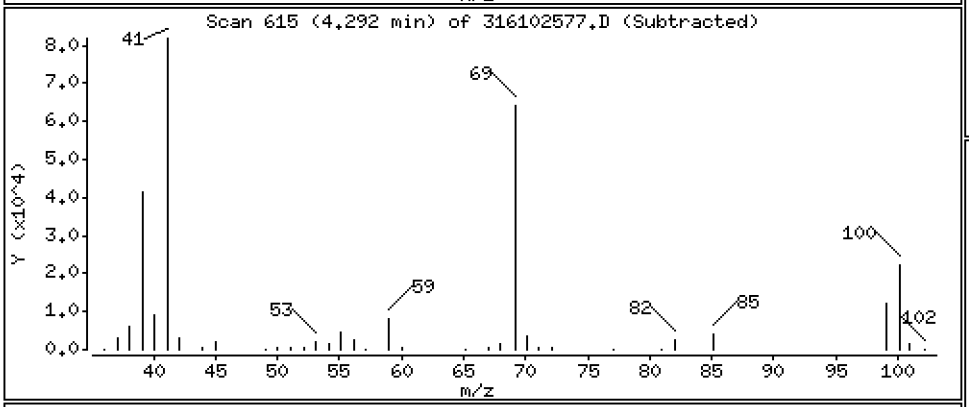
Sample Info: 2429373;;1;3;;MS;1;

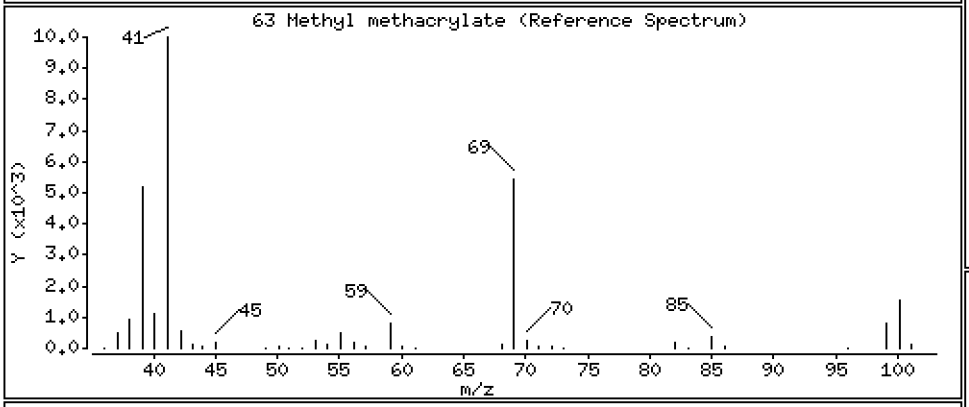
Purge Volume: 5.0 Operator: CJG

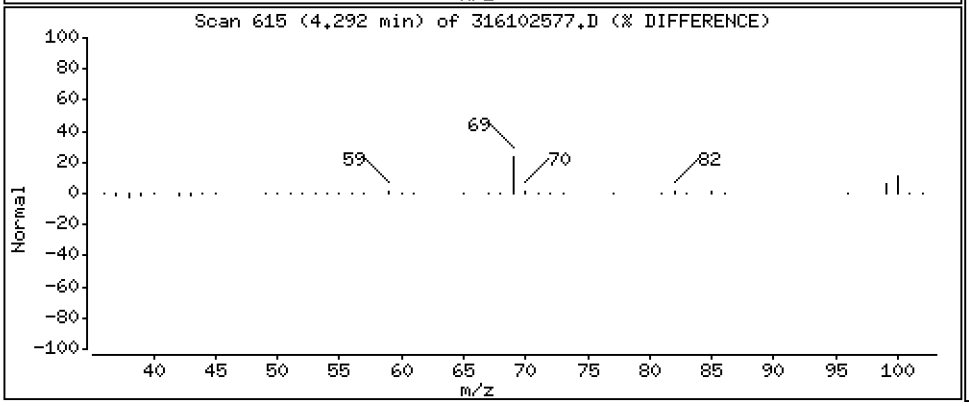
Column phase: DB-VRX Column diameter: 0.25

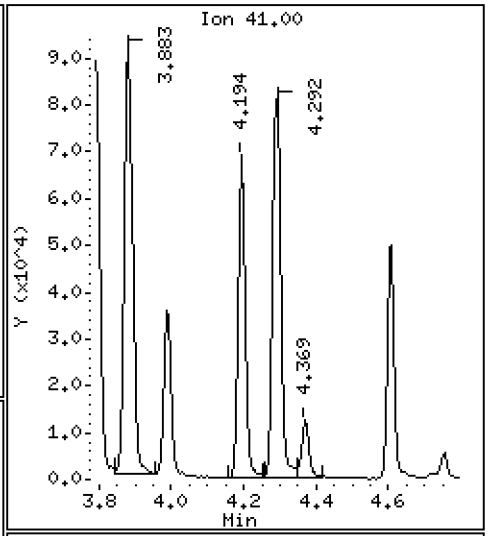
63 Methyl methacrylate Concentration: 20.7939 ug/L

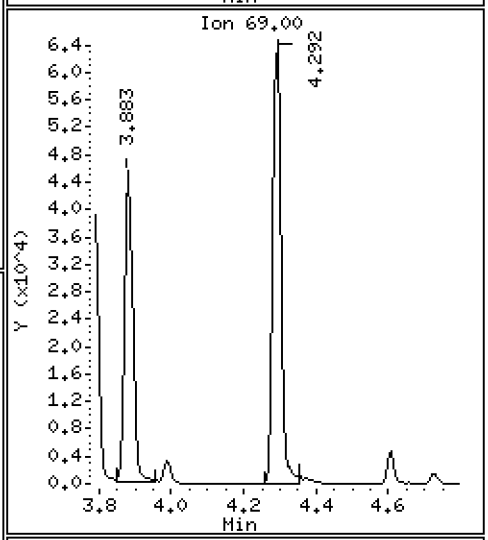


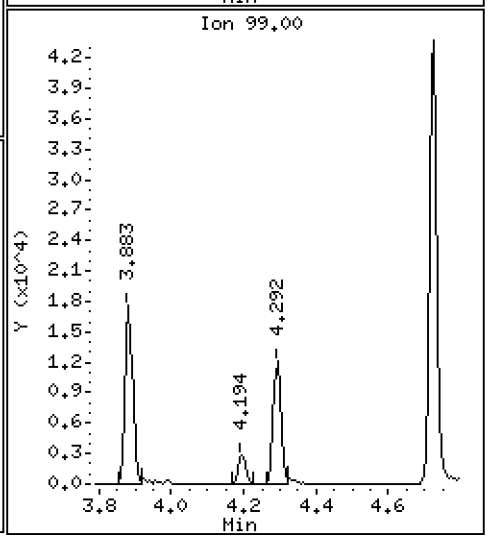












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 73

Date : 26-OCT-2016 07:30

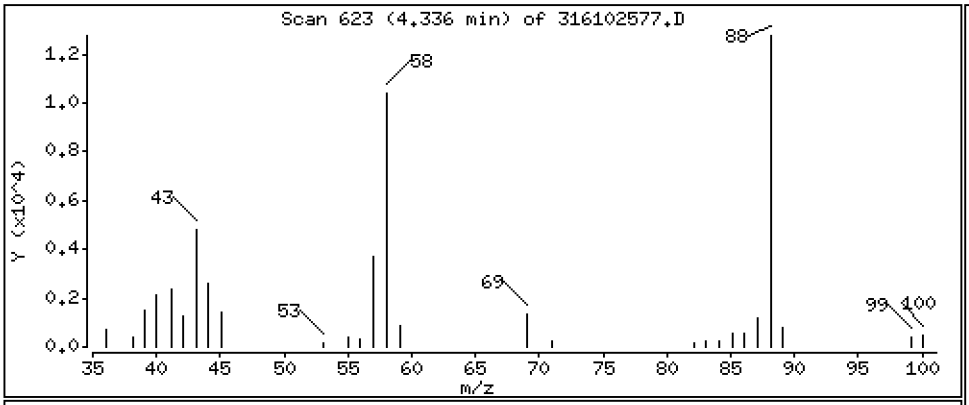
Client ID: 2184163001MS Instrument: ms03.i

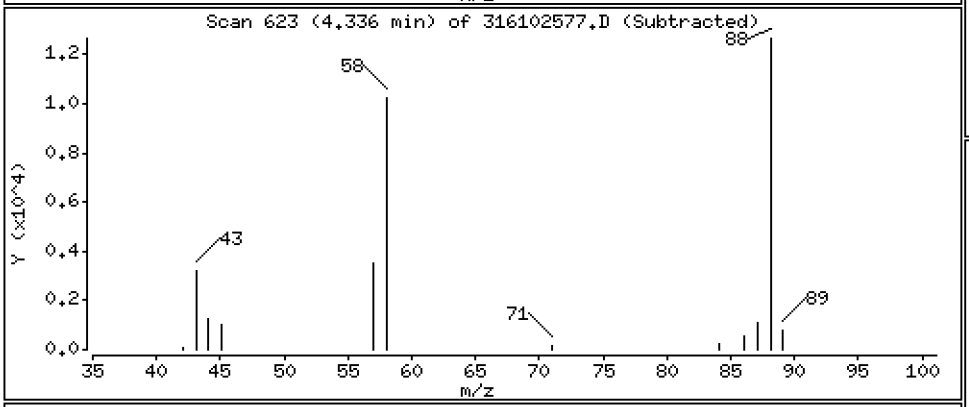
Sample Info: 2429373;;1;3;;MS;1;

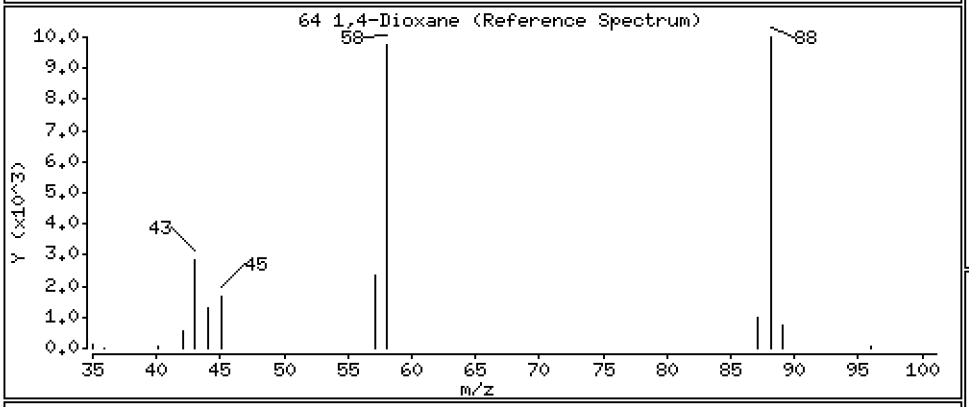
Purge Volume: 5.0 Operator: CJG

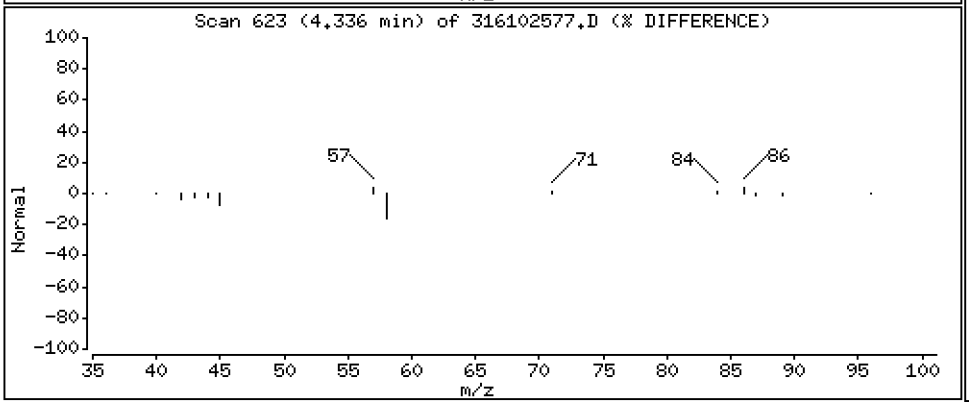
Column phase: DB-VRX Column diameter: 0.25

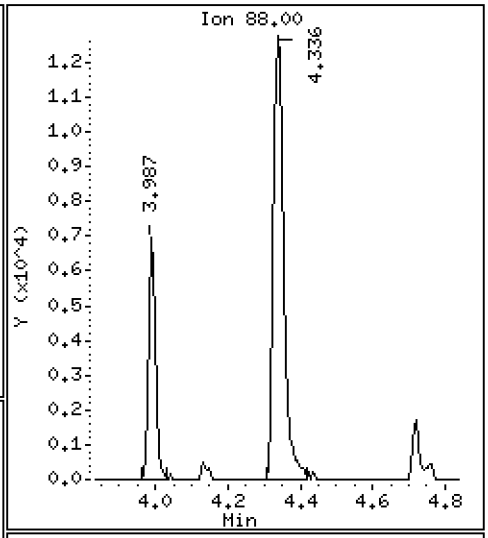
64 1,4-Dioxane Concentration: 886.274 ug/L

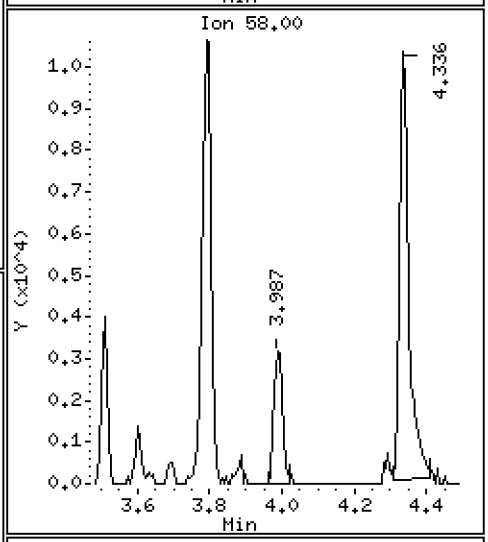


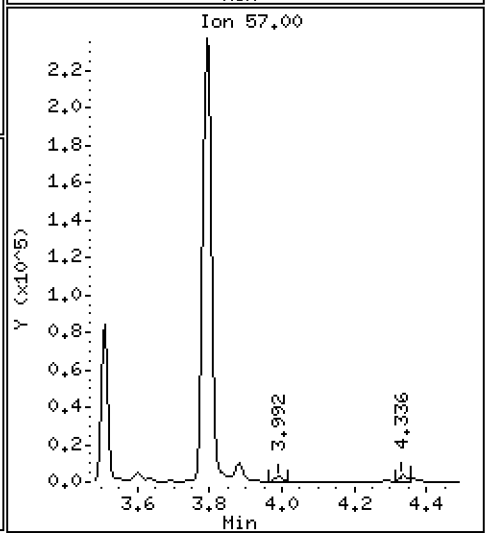












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 74

Date : 26-OCT-2016 07:30

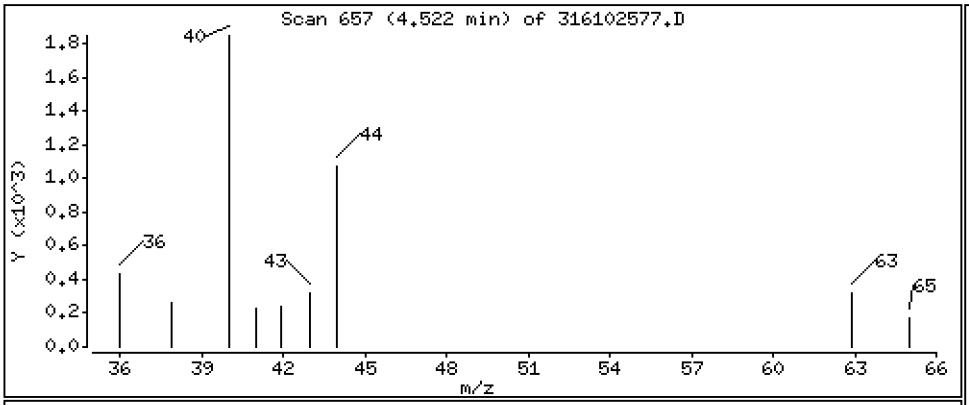
Client ID: 2184163001MS Instrument: ms03.i

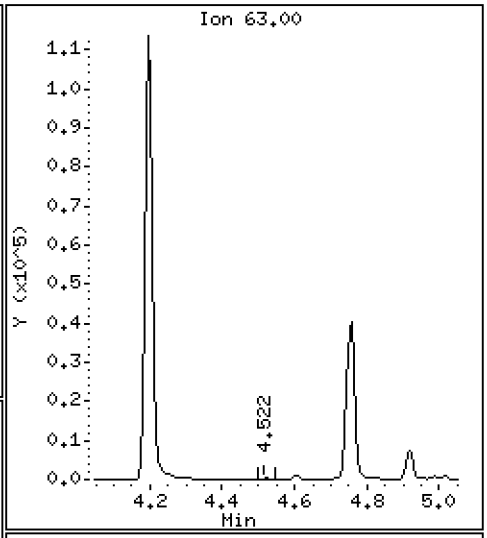
Sample Info: 2429373;;1;3;;MS;1;

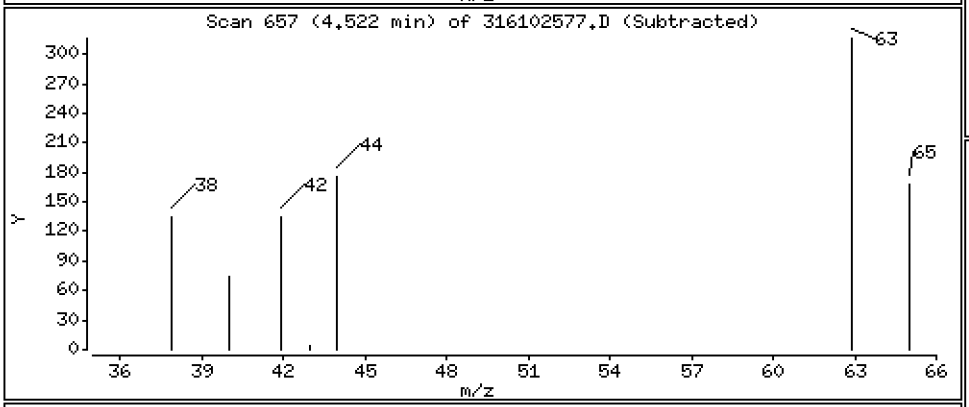
Purge Volume: 5.0 Operator: CJG

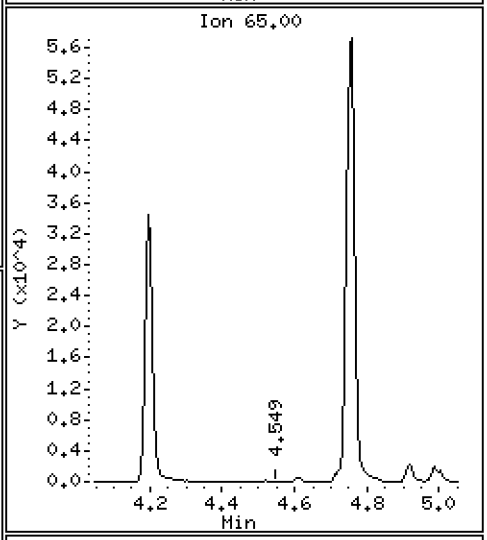
Column phase: DB-VRX Column diameter: 0.25

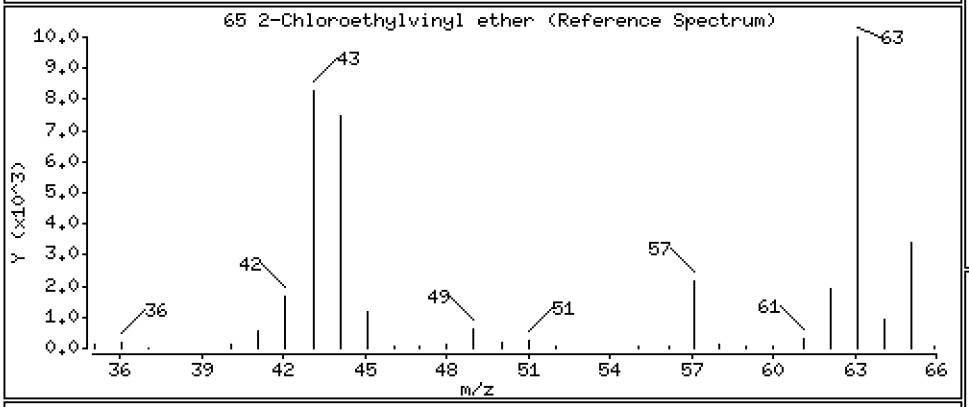
65 2-Chloroethylvinyl ether Concentration: 0.0718720 ug/L

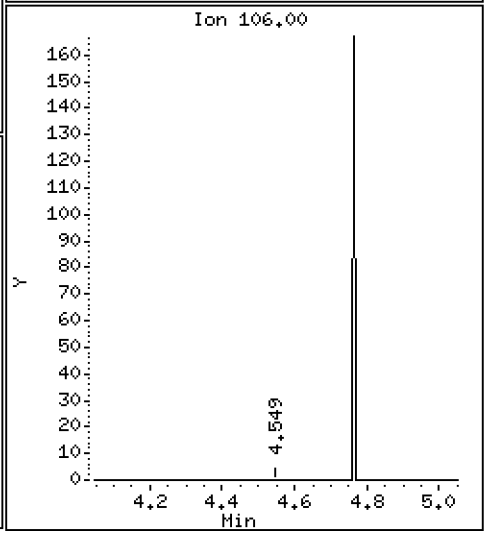


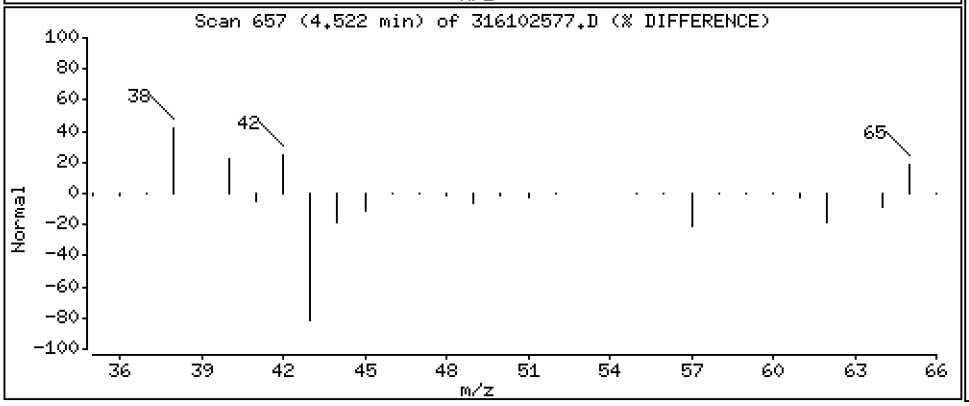












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 75

Date : 26-OCT-2016 07:30

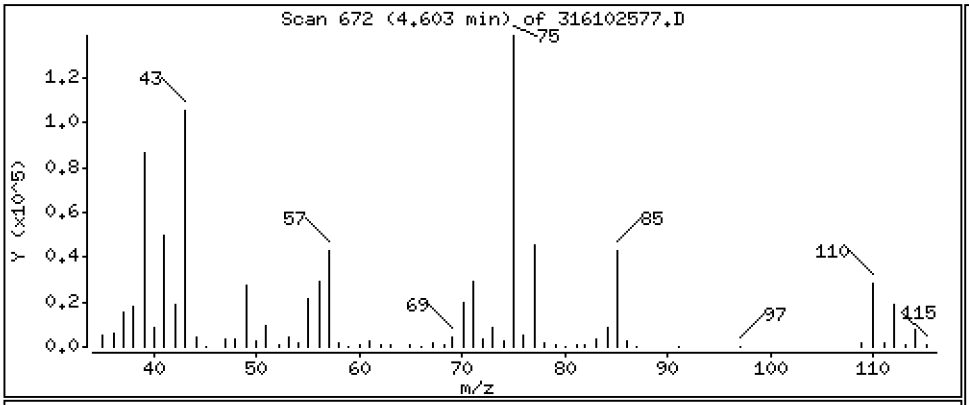
Client ID: 2184163001MS Instrument: ms03.i

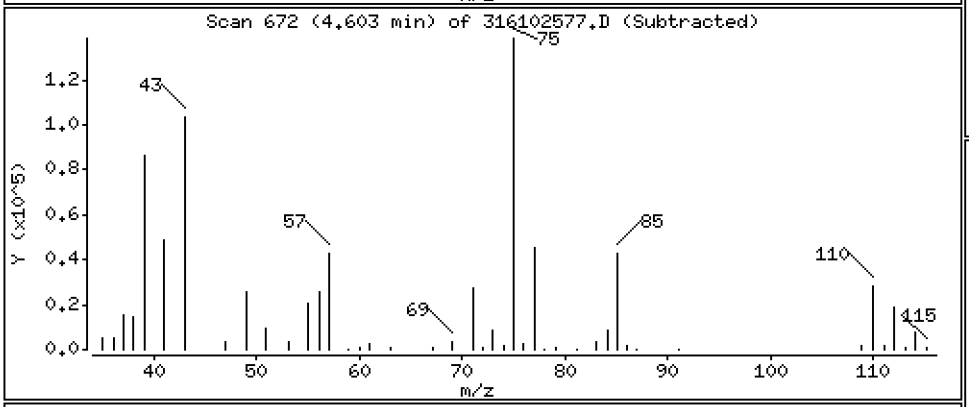
Sample Info: 2429373;;1;3;;MS;1;

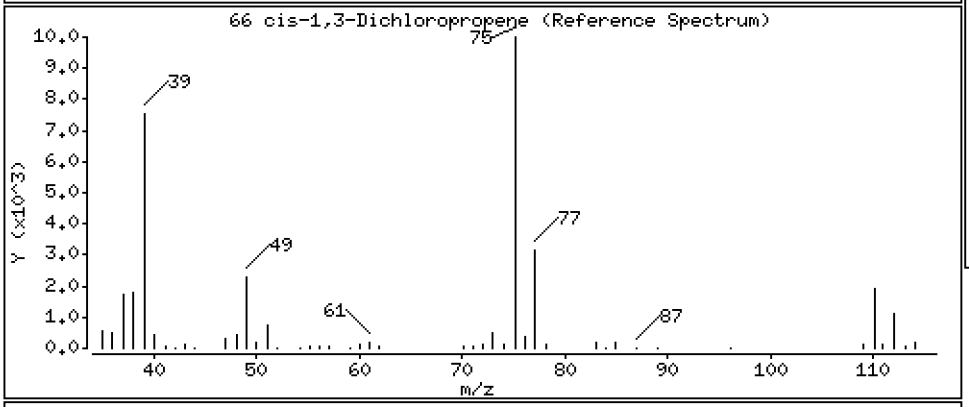
Purge Volume: 5.0 Operator: CJG

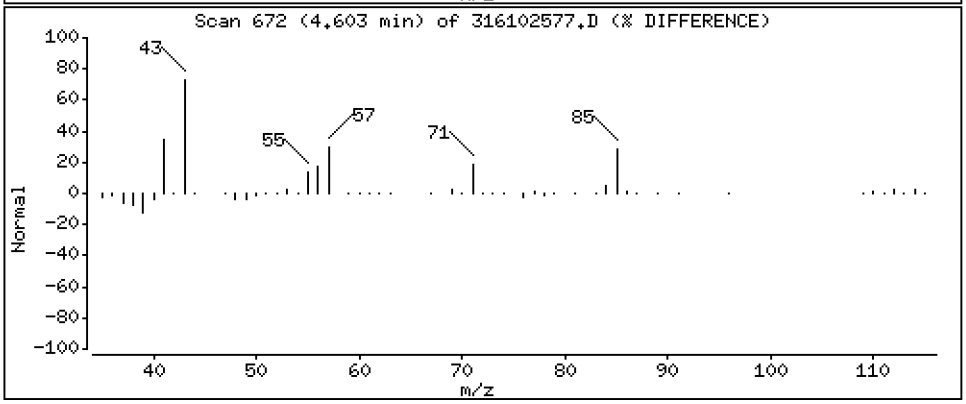
Column phase: DB-VRX Column diameter: 0.25

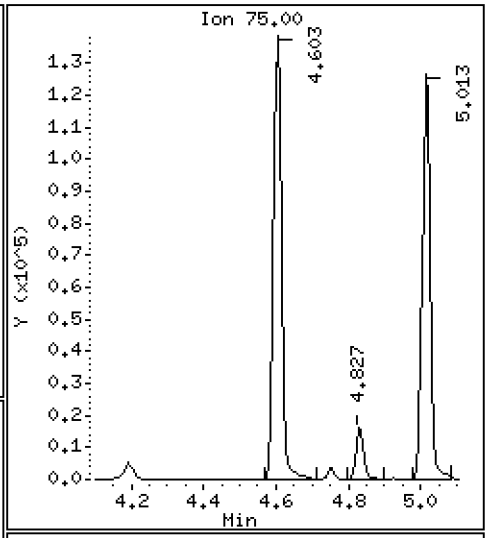
66 cis-1,3-Dichloropropene Concentration: 18.0184 ug/L

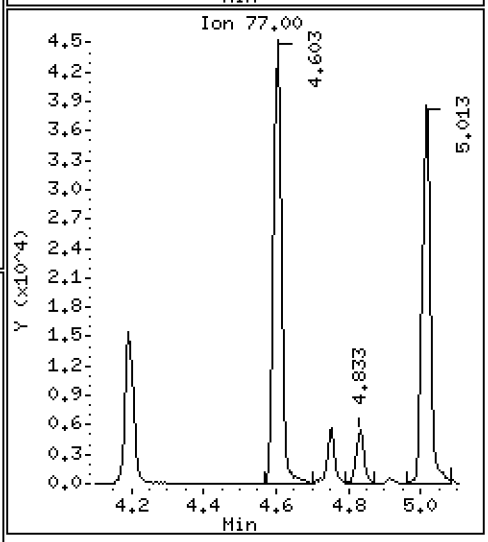












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 76

Date : 26-OCT-2016 07:30

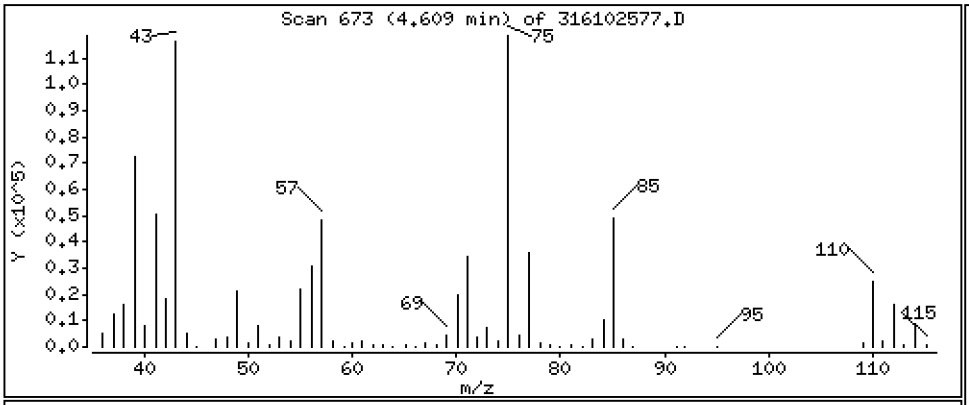
Client ID: 2184163001MS Instrument: ms03.i

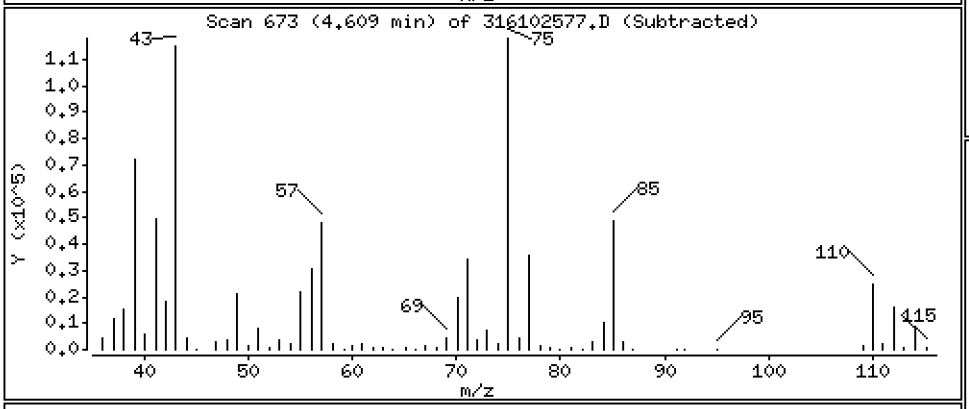
Sample Info: 2429373;;1;3;;MS;1;

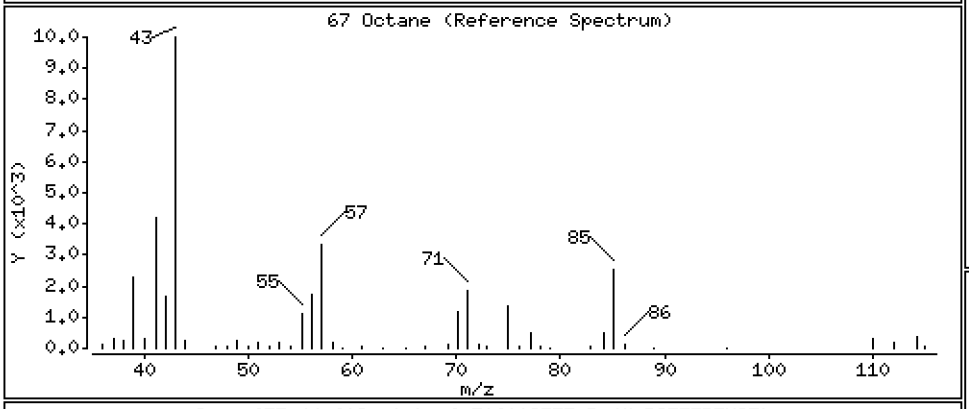
Purge Volume: 5.0 Operator: CJG

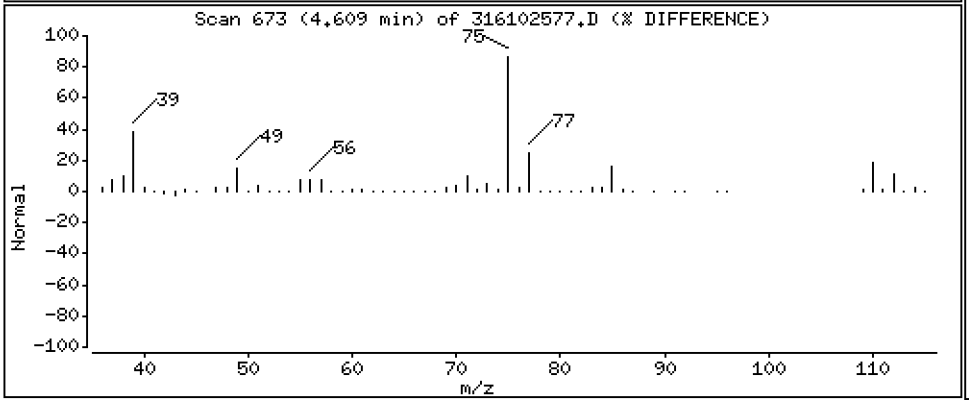
Column phase: DB-VRX Column diameter: 0.25

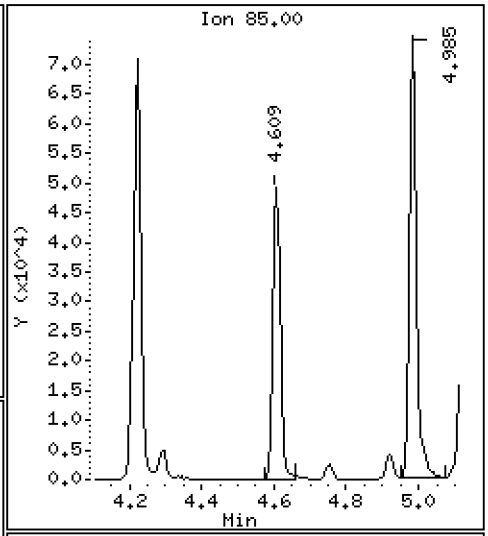
67 Octane Concentration: 19.4782 ug/L

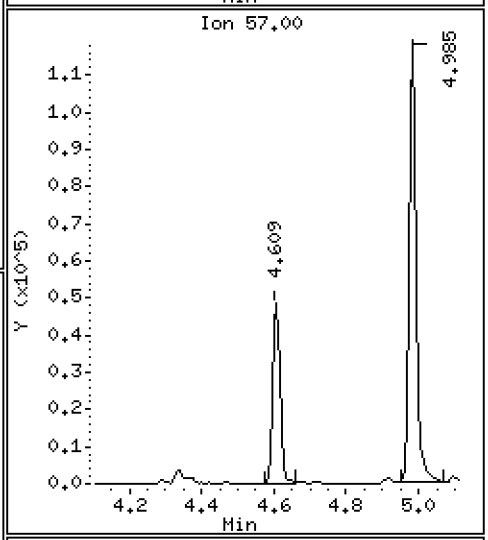


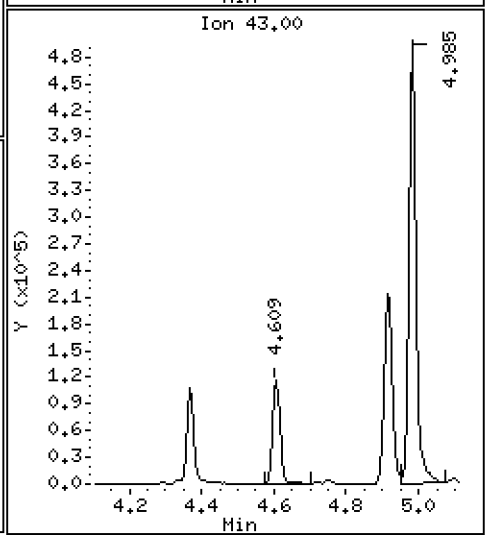












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 77

Date : 26-OCT-2016 07:30

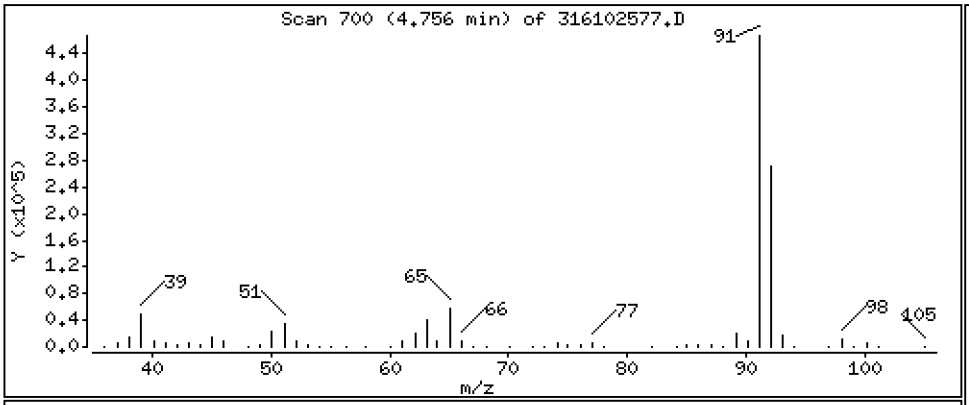
Client ID: 2184163001MS Instrument: ms03.i

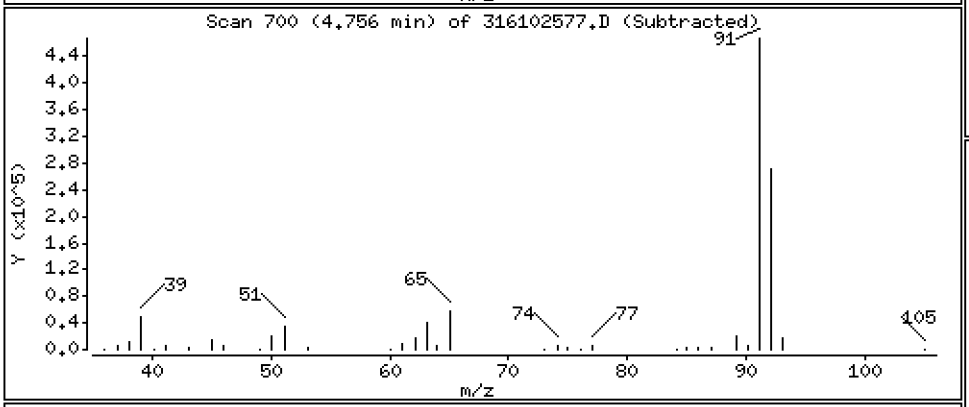
Sample Info: 2429373;;1;3;;MS;1;

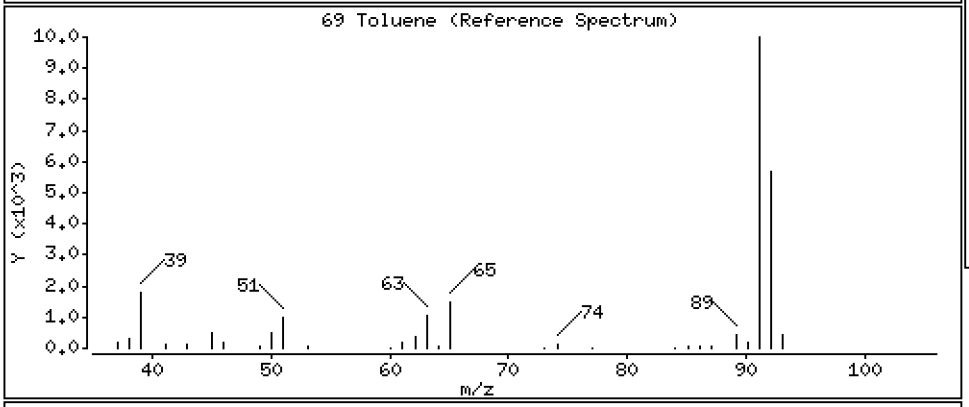
Purge Volume: 5.0 Operator: CJG

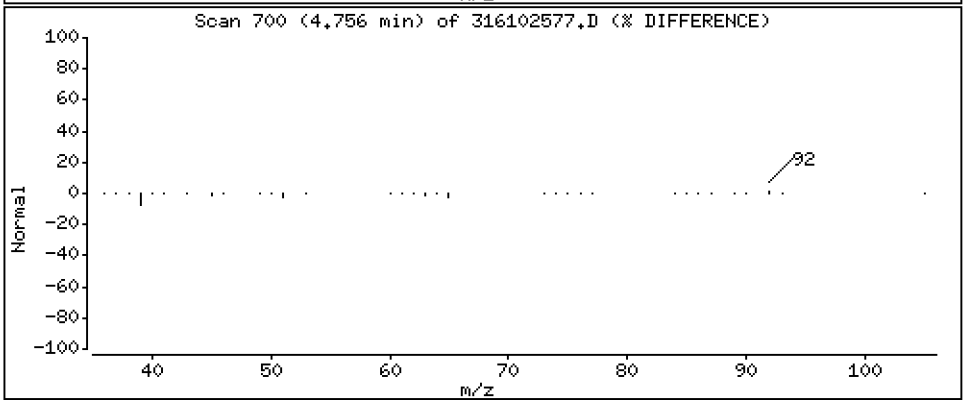
Column phase: DB-VRX Column diameter: 0.25

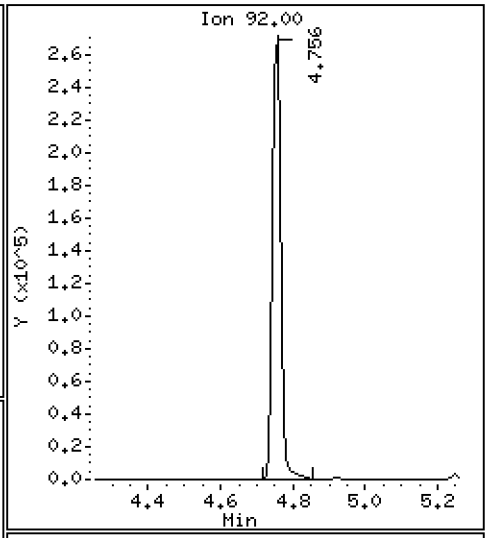
69 Toluene Concentration: 20.2941 ug/L

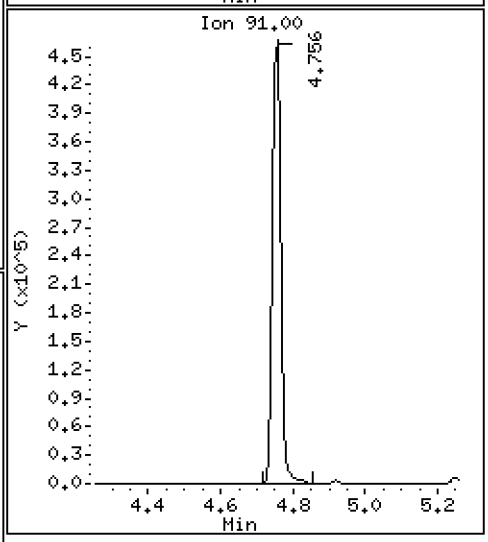












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 78

Date : 26-OCT-2016 07:30

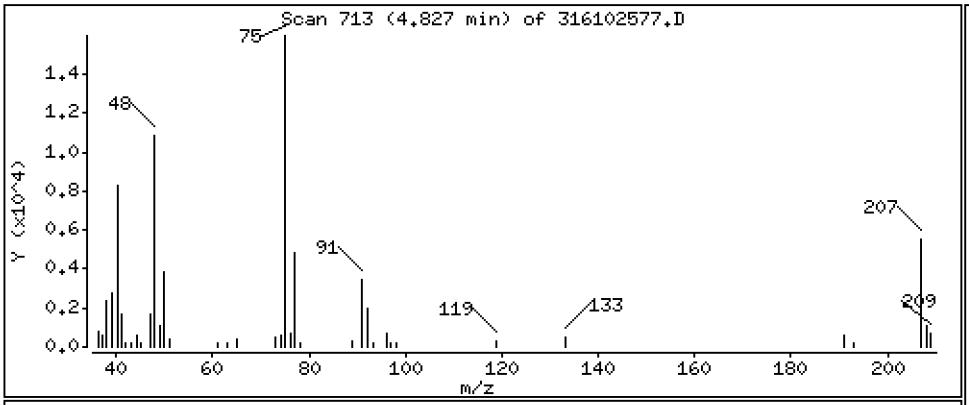
Client ID: 2184163001MS Instrument: ms03.i

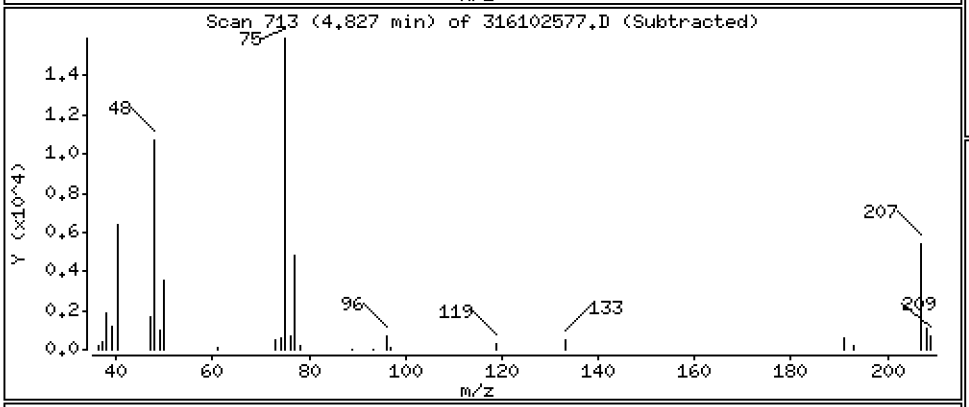
Sample Info: 2429373;;1;3;;MS;1;

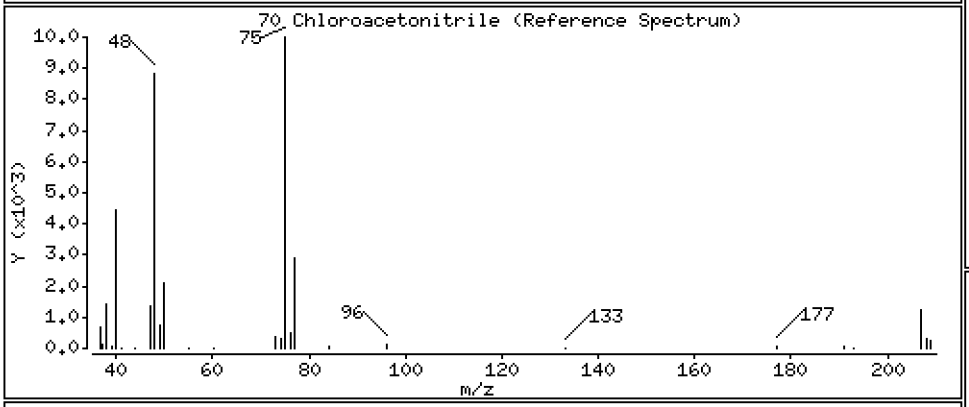
Purge Volume: 5.0 Operator: CJG

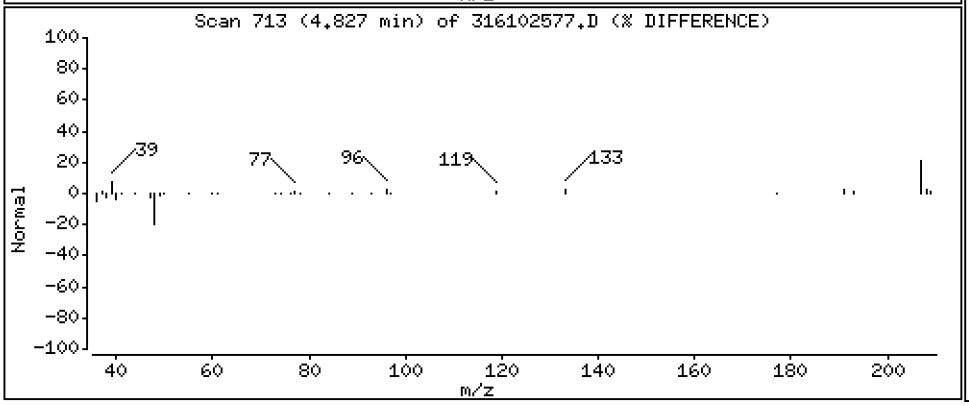
Column phase: DB-VRX Column diameter: 0.25

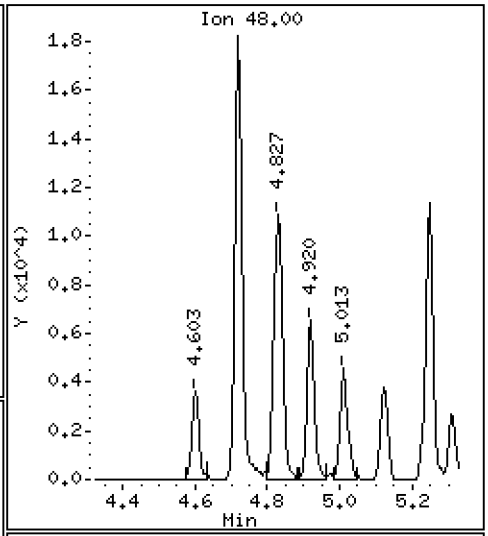
70 Chloroacetonitrile Concentration: 99.8124 ug/L

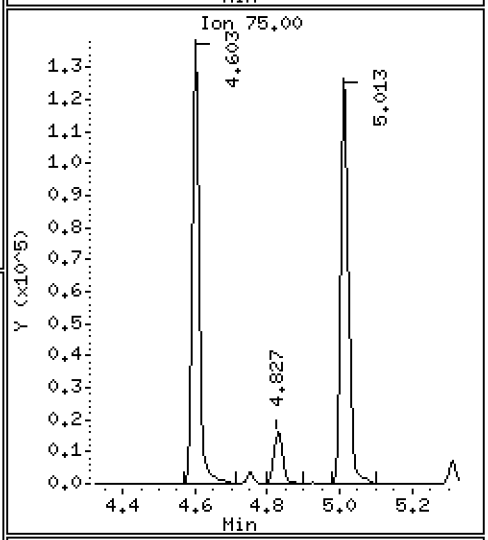


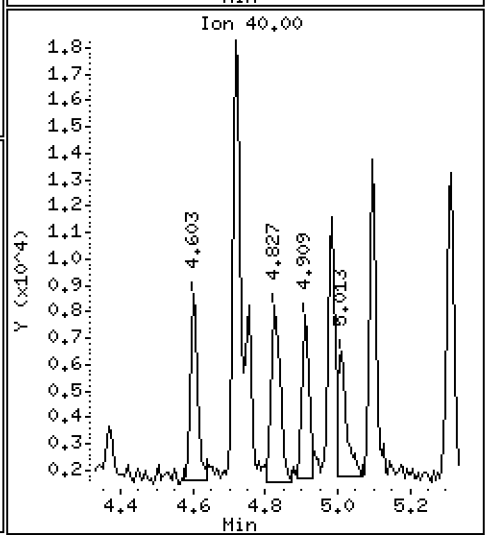












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 79

Date : 26-OCT-2016 07:30

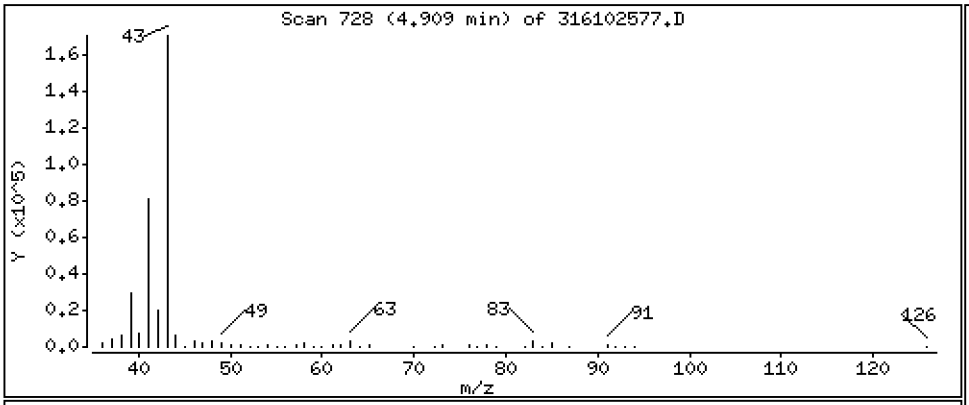
Client ID: 2184163001MS Instrument: ms03.i

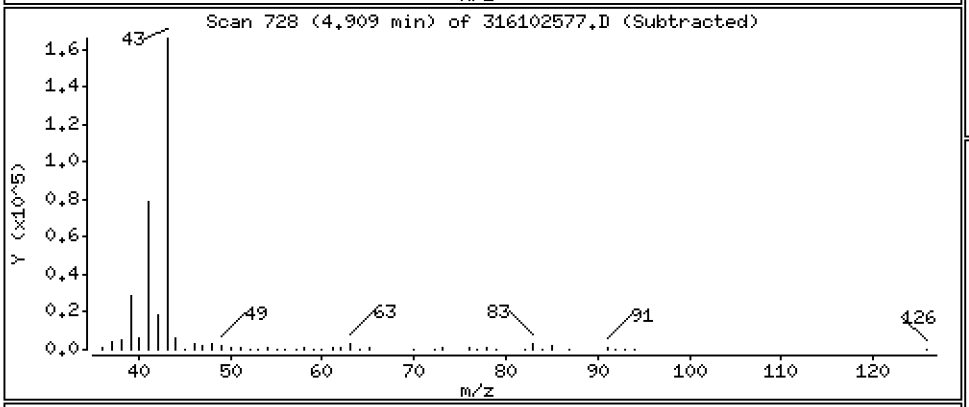
Sample Info: 2429373;;1;3;;MS;1;

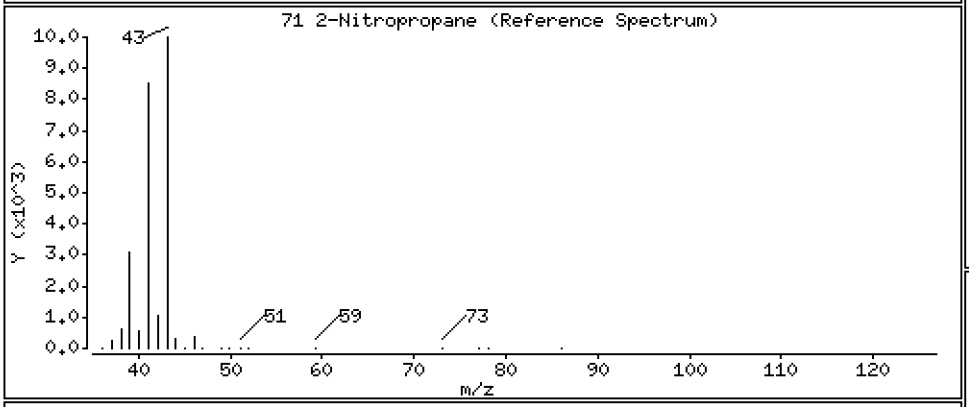
Purge Volume: 5.0 Operator: CJG

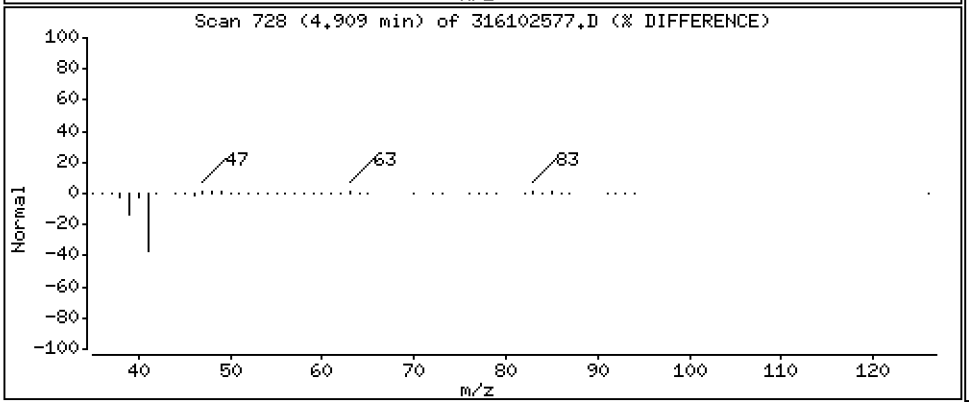
Column phase: DB-VRX Column diameter: 0.25

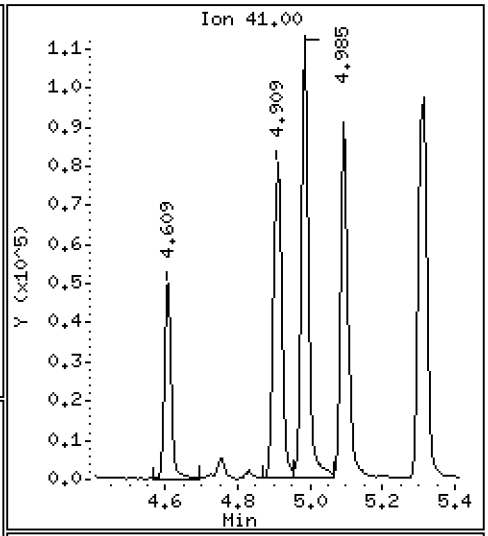
71 2-Nitropropane Concentration: 88.5672 ug/L

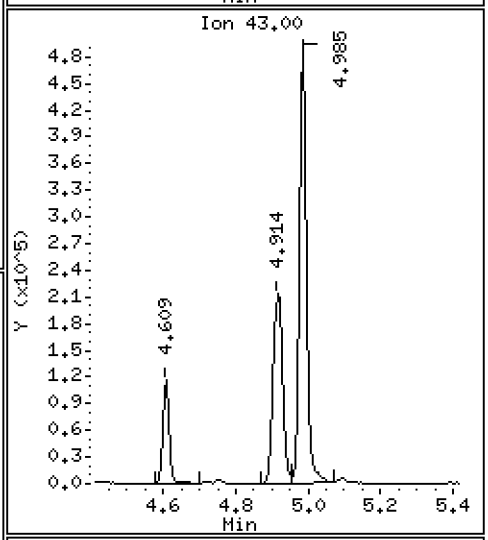


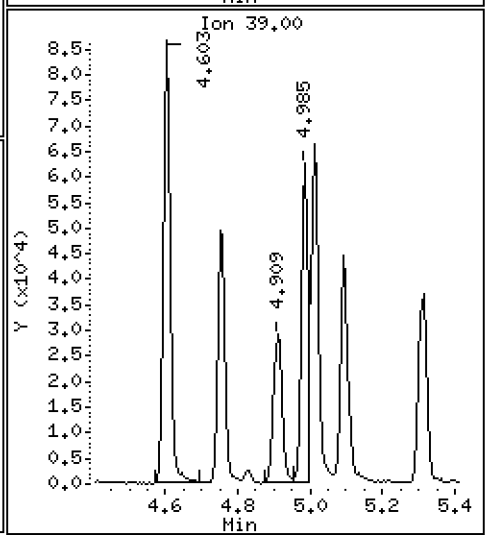












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 80

Date : 26-OCT-2016 07:30

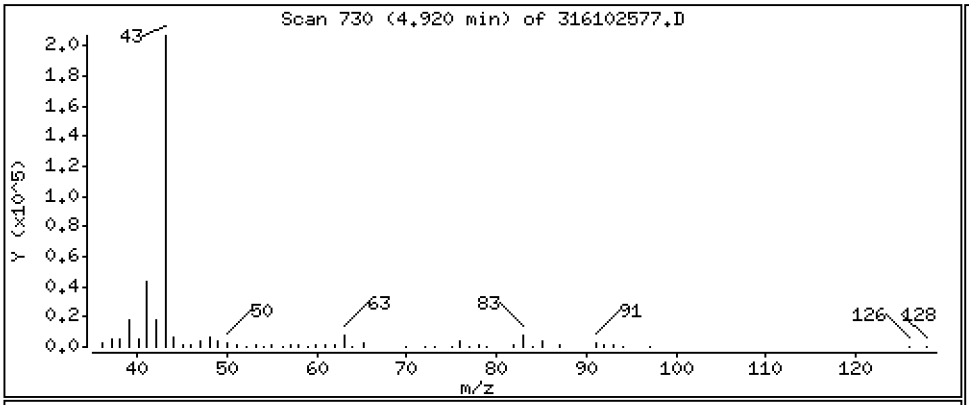
Client ID: 2184163001MS Instrument: ms03.i

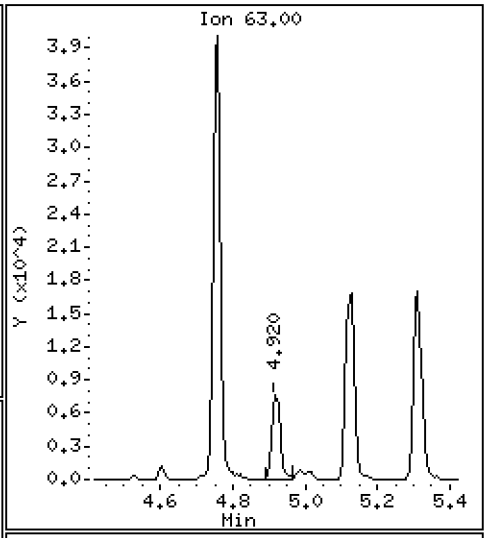
Sample Info: 2429373;;1;3;;MS;1;

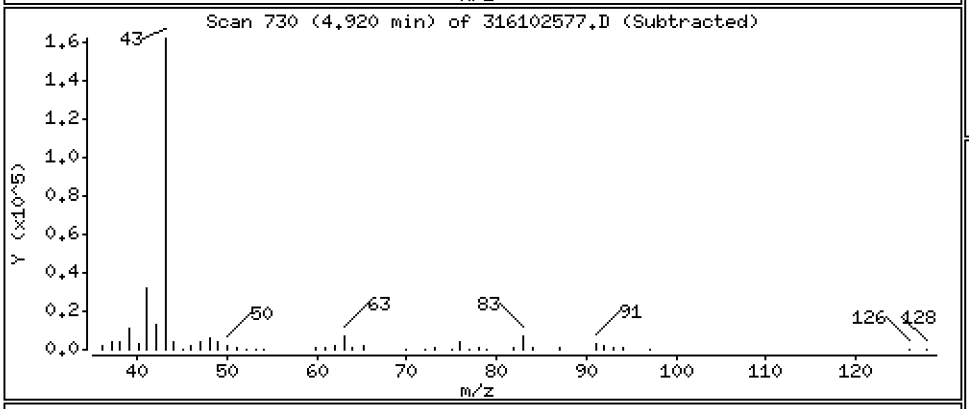
Purge Volume: 5.0 Operator: CJG

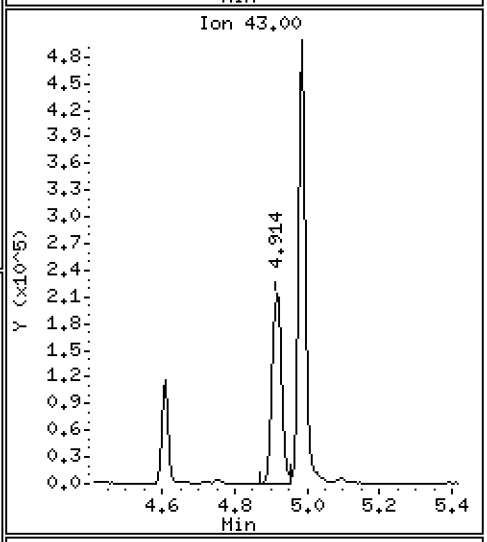
Column phase: DB-VRX Column diameter: 0.25

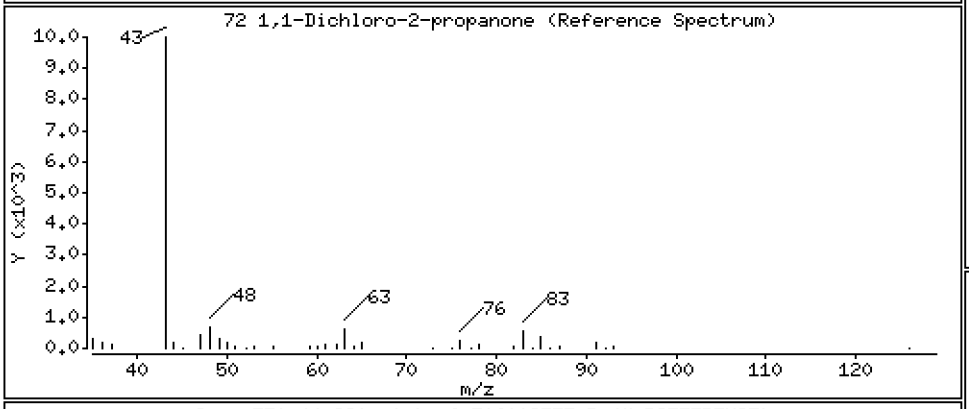
72 1,1-Dichloro-2-propanone Concentration: 88.4256 ug/L

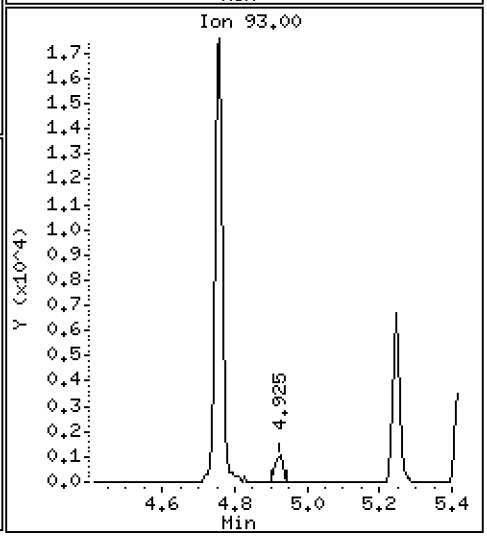


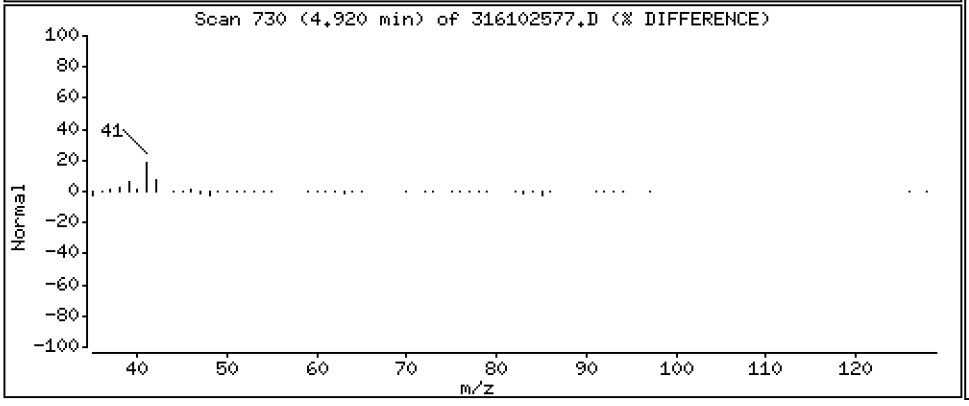












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 81

Date : 26-OCT-2016 07:30

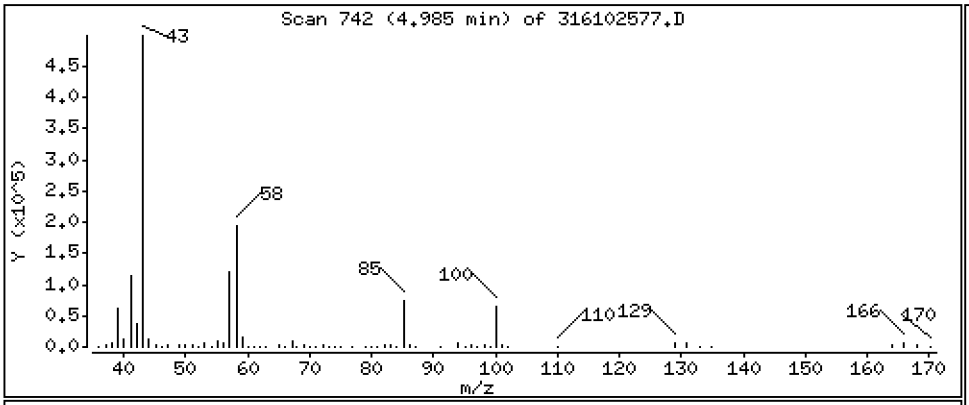
Client ID: 2184163001MS Instrument: ms03.i

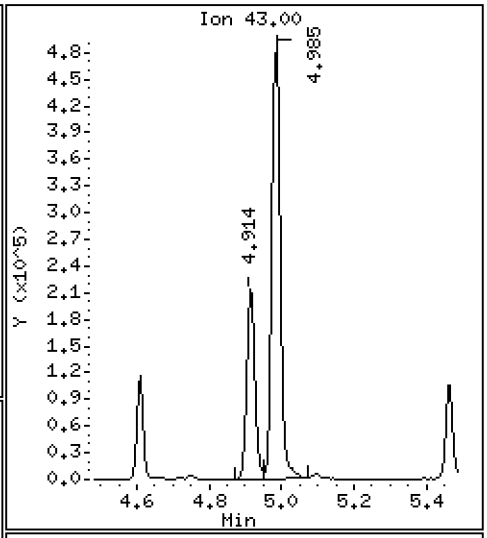
Sample Info: 2429373;;1;3;;MS;1;

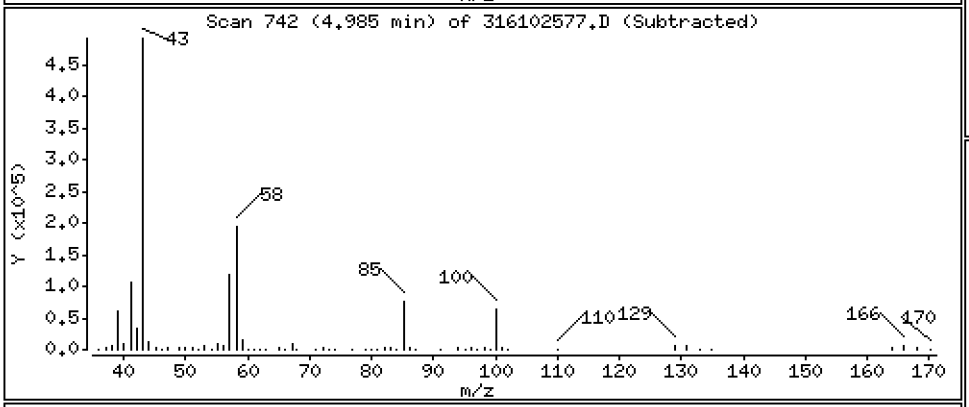
Purge Volume: 5.0 Operator: CJG

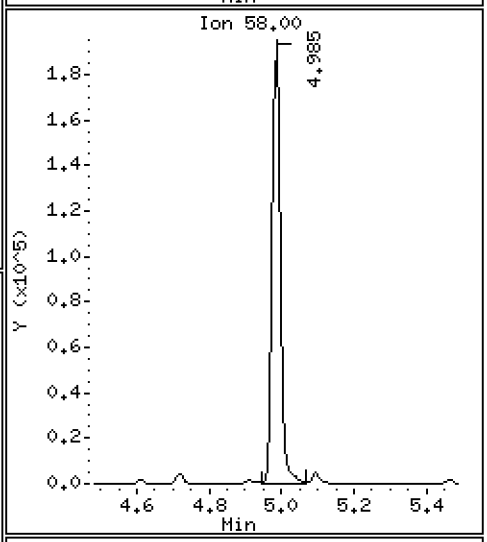
Column phase: DB-VRX Column diameter: 0.25

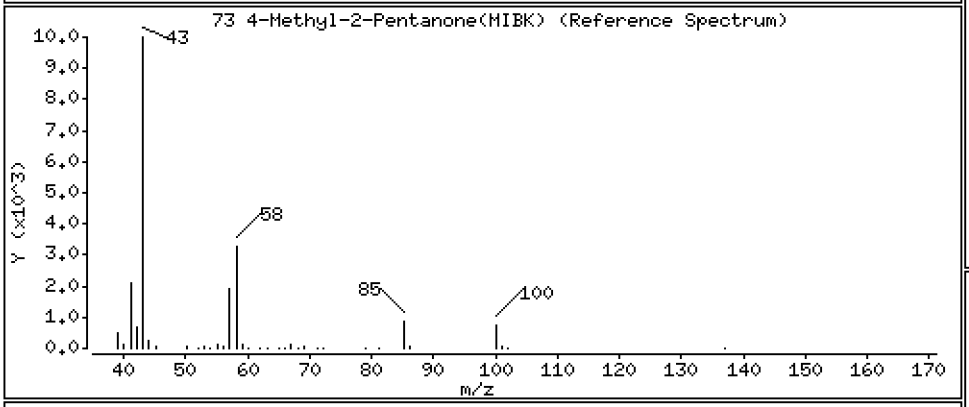
73 4-Methyl-2-Pentanone(MIBK) Concentration: 108.251 ug/L

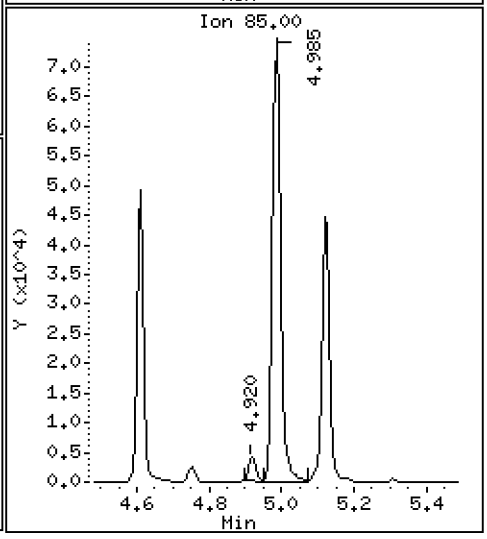


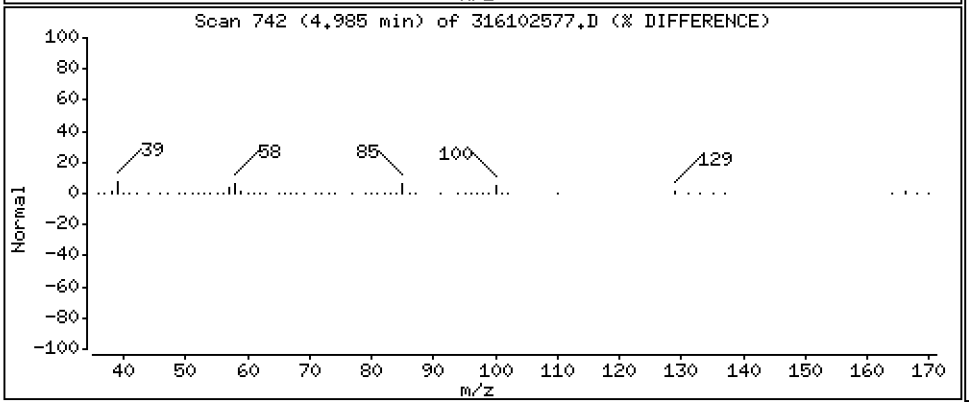












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 82

Date : 26-OCT-2016 07:30

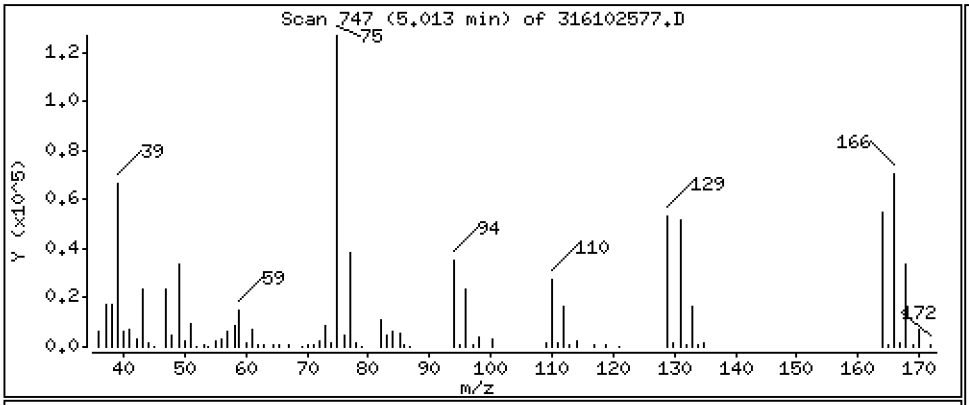
Client ID: 2184163001MS Instrument: ms03.i

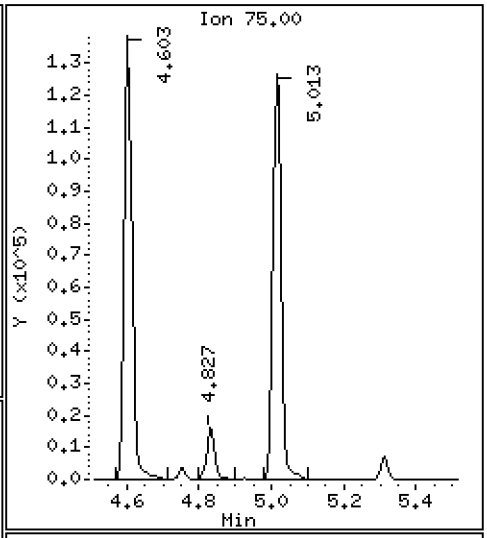
Sample Info: 2429373;;1;3;;MS;1;

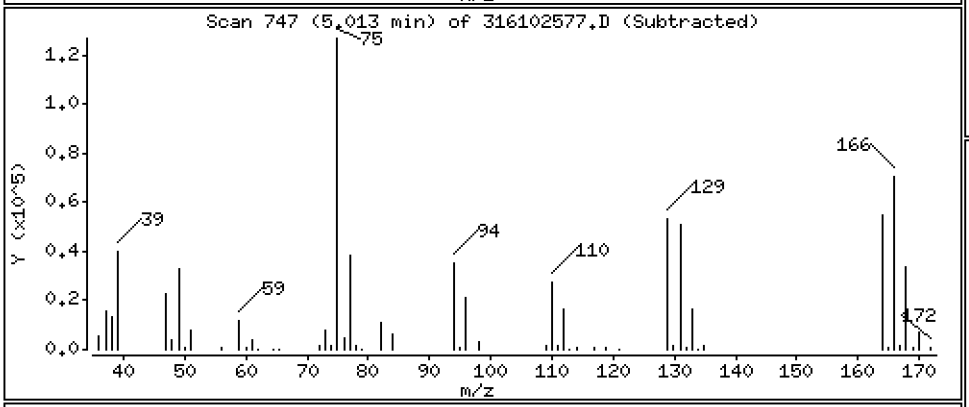
Purge Volume: 5.0 Operator: CJG

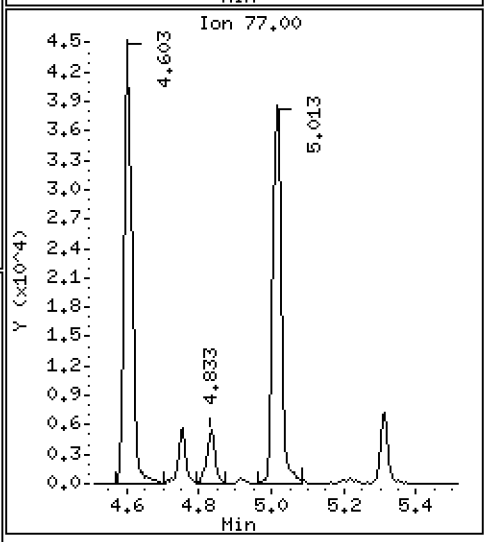
Column phase: DB-VRX Column diameter: 0.25

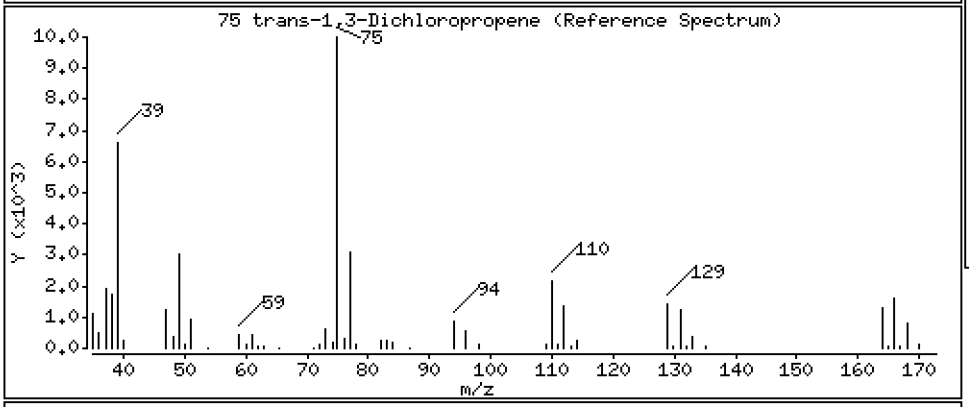
75 trans-1,3-Dichloropropene Concentration: 19.5617 ug/L

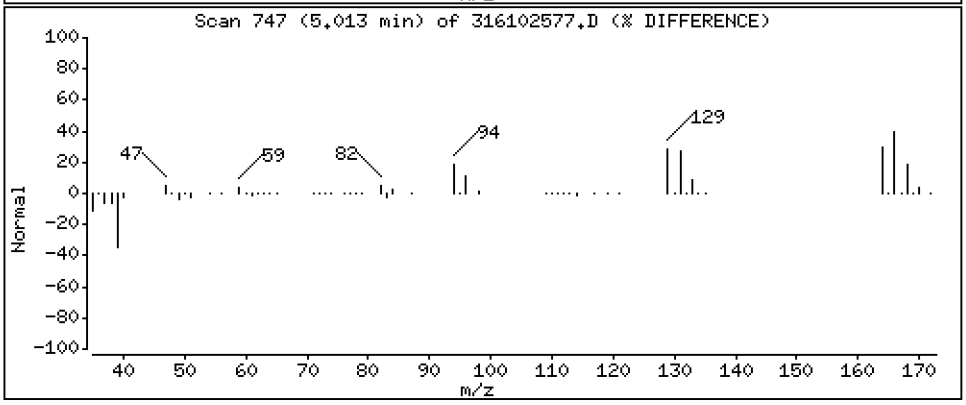












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 83

Date : 26-OCT-2016 07:30

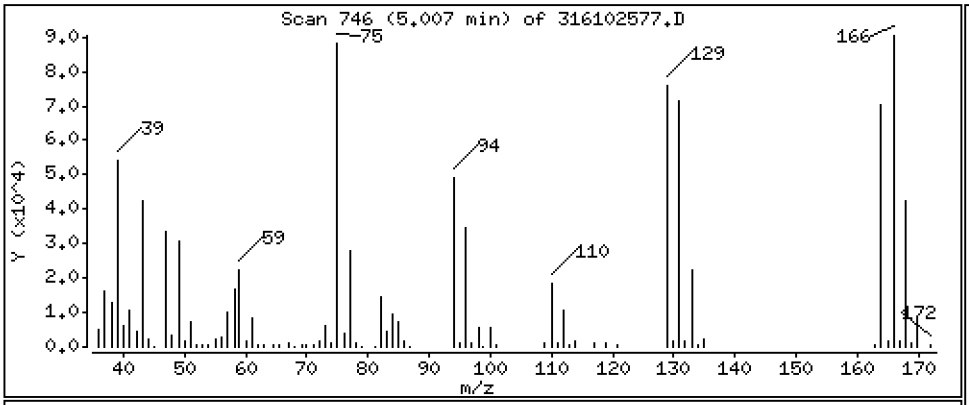
Client ID: 2184163001MS Instrument: ms03.i

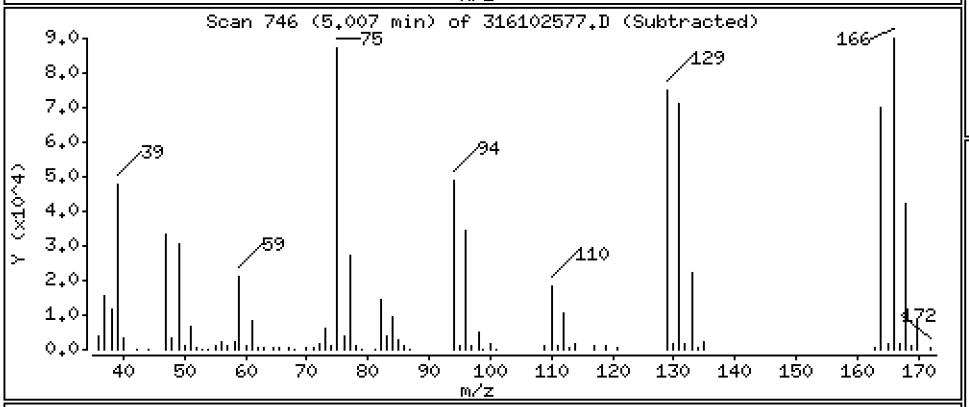
Sample Info: 2429373;;1;3;;MS;1;

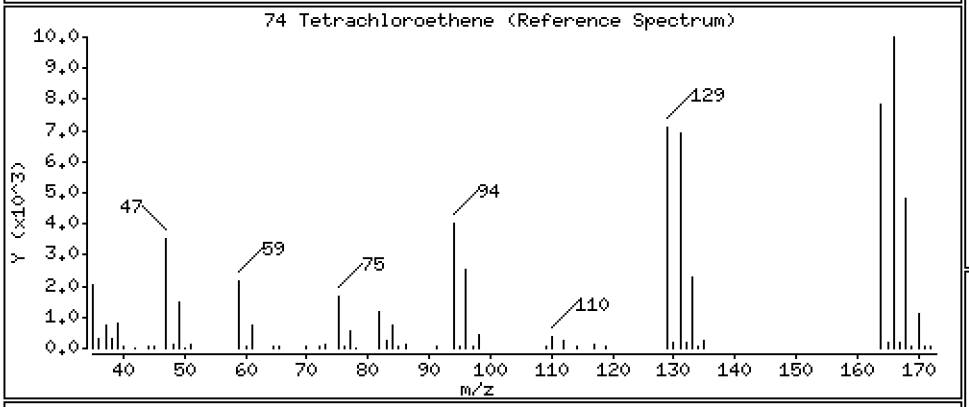
Purge Volume: 5.0 Operator: CJG

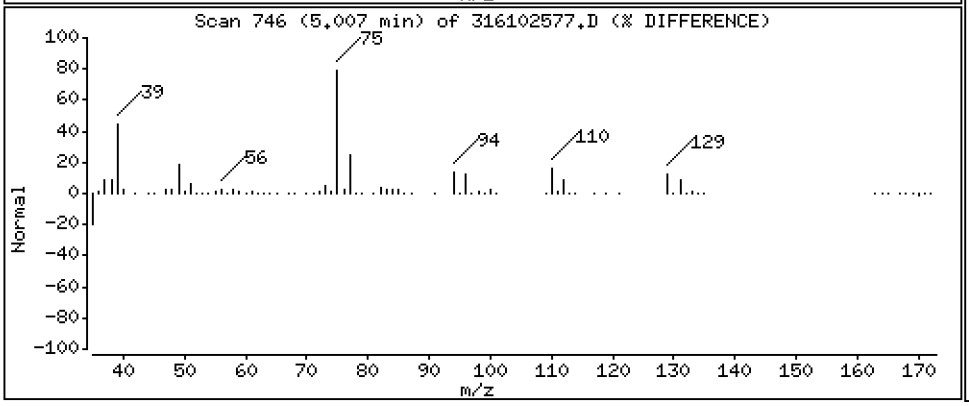
Column phase: DB-VRX Column diameter: 0.25

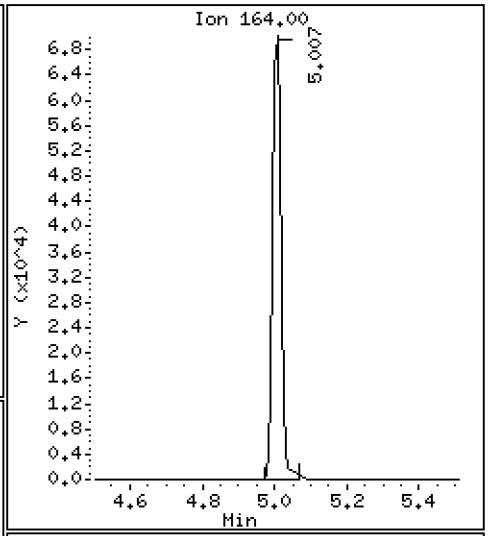
74 Tetrachloroethene Concentration: 22.4744 ug/L

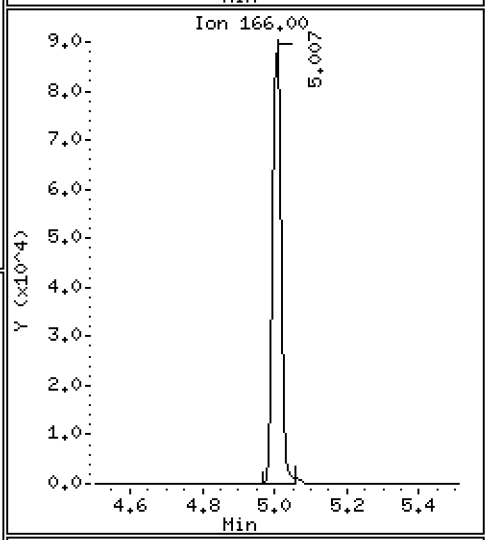


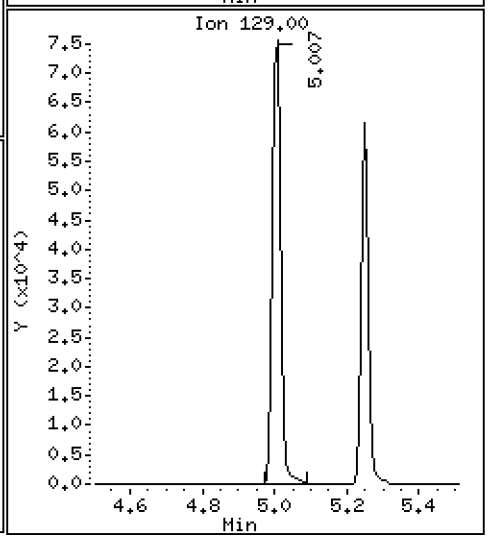












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 84

Date : 26-OCT-2016 07:30

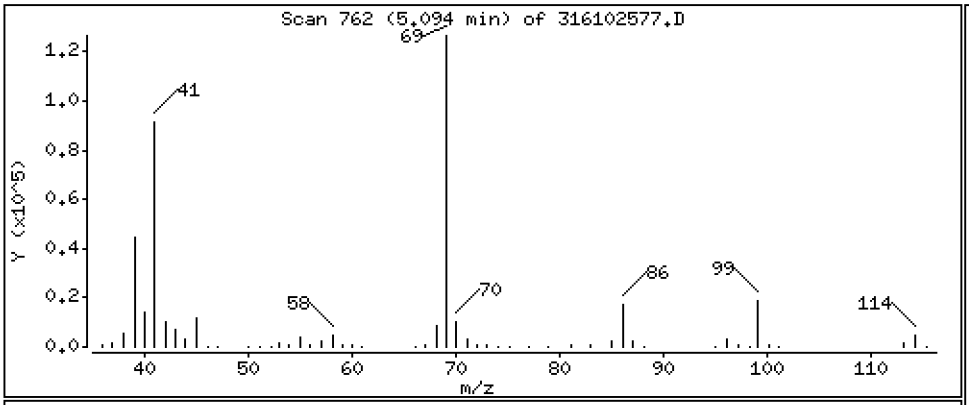
Client ID: 2184163001MS Instrument: ms03.i

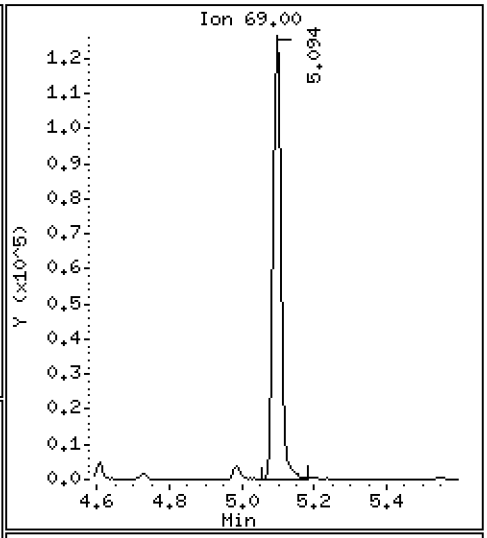
Sample Info: 2429373;;1;3;;MS;1;

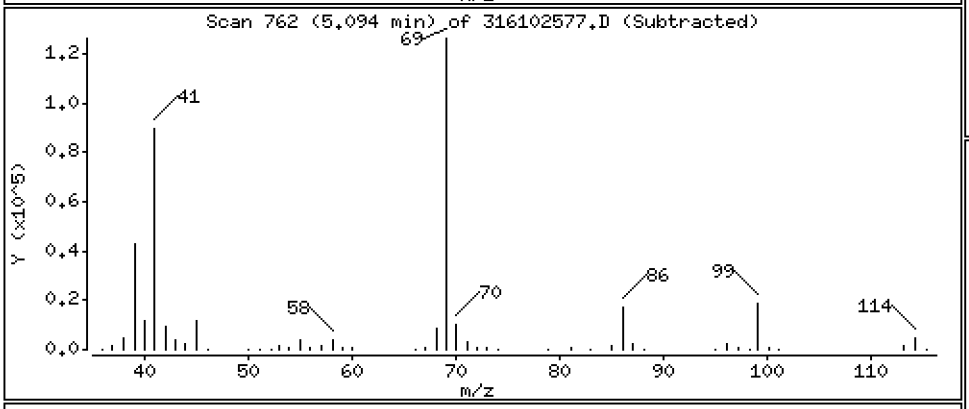
Purge Volume: 5.0 Operator: CJG

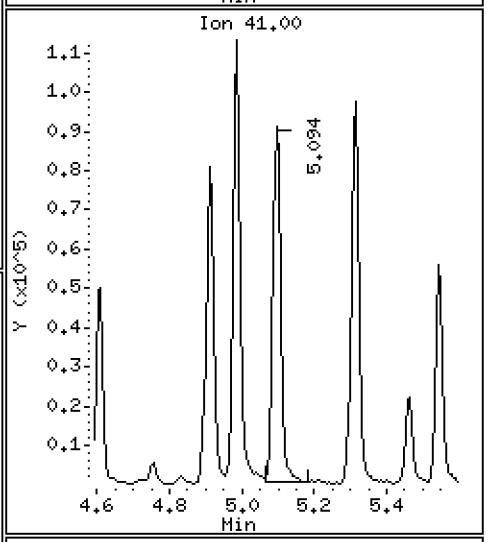
Column phase: DB-VRX Column diameter: 0.25

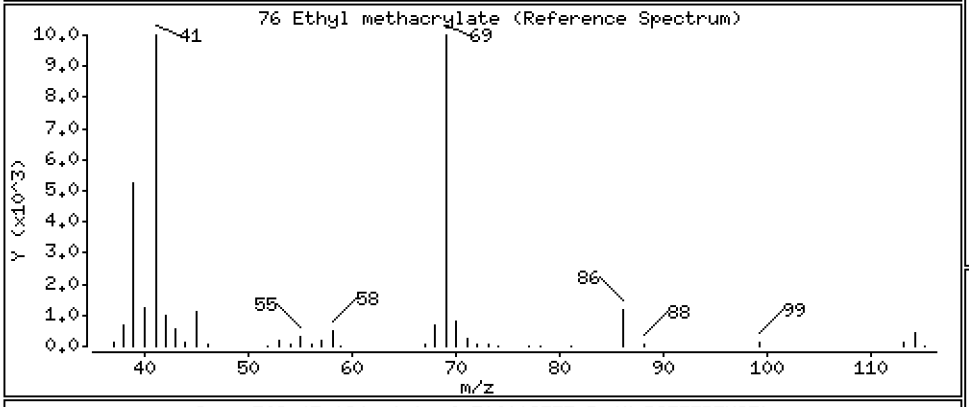
76 Ethyl methacrylate Concentration: 20.2925 ug/L

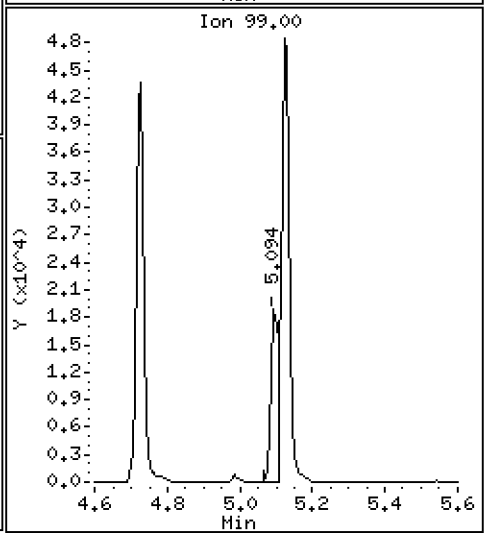


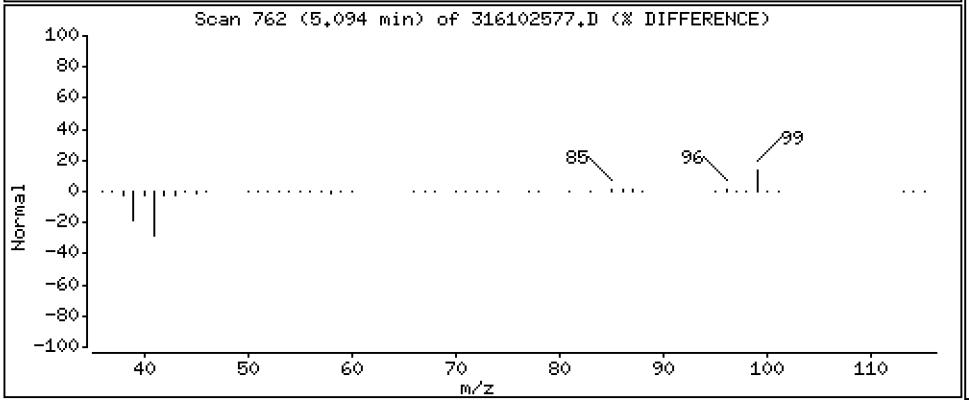












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 85

Date : 26-OCT-2016 07:30

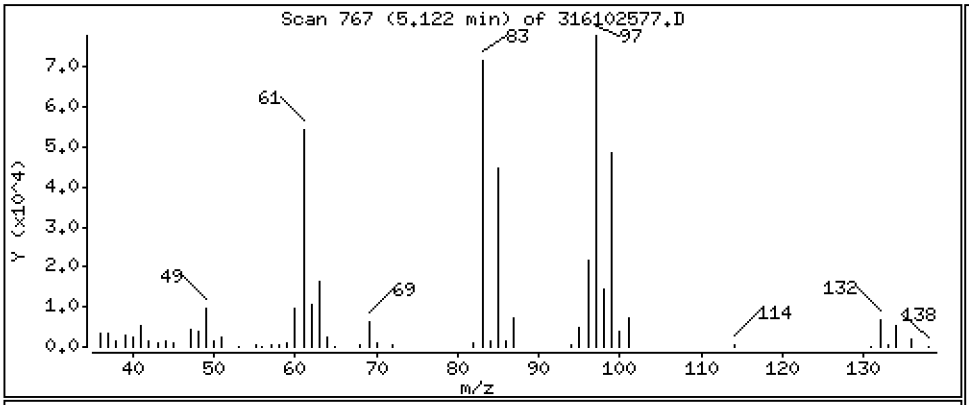
Client ID: 2184163001MS Instrument: ms03.i

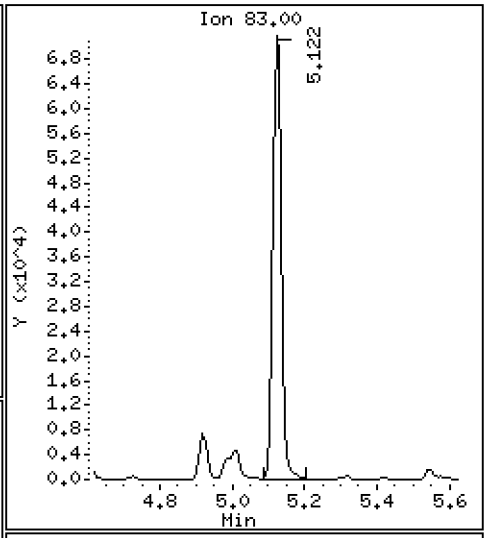
Sample Info: 2429373;;1;3;;MS;1;

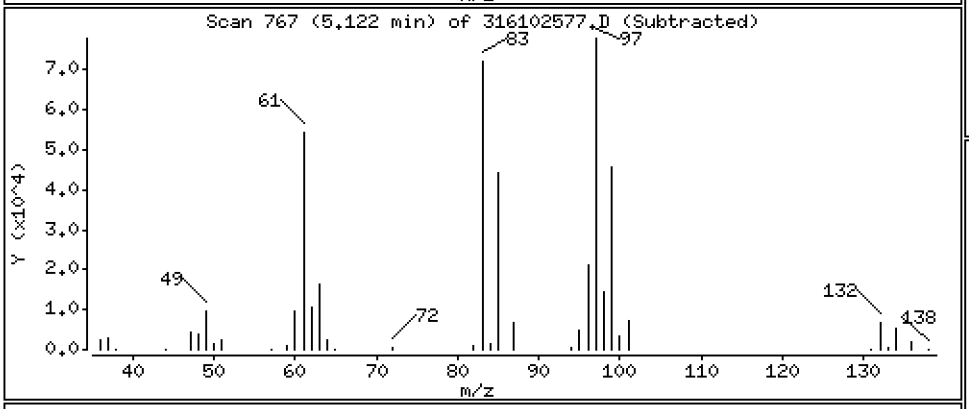
Purge Volume: 5.0 Operator: CJG

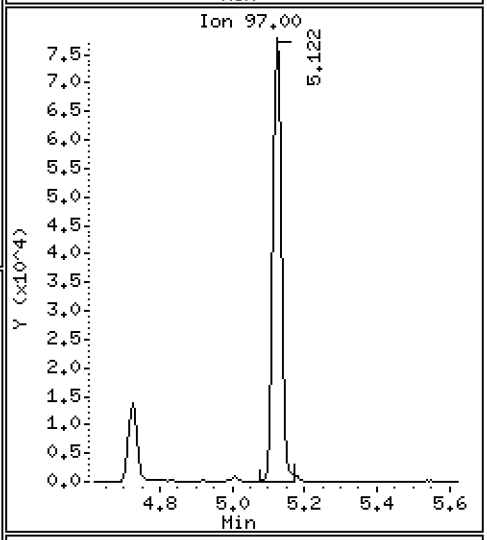
Column phase: DB-VRX Column diameter: 0.25

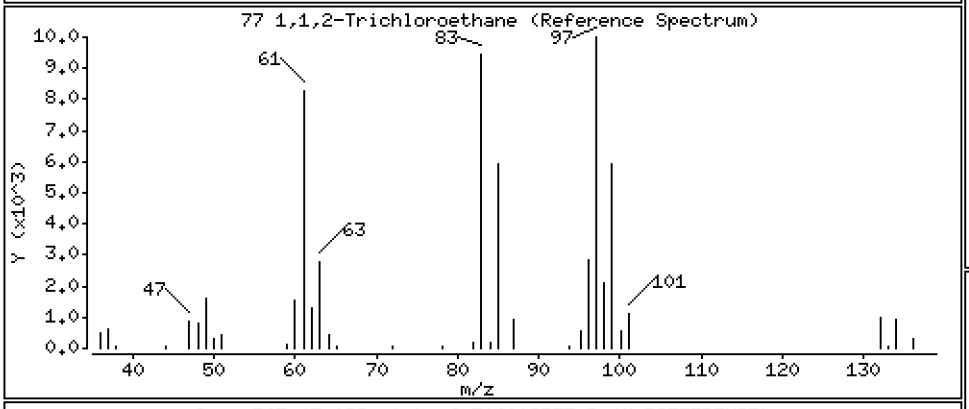
77 1,1,2-Trichloroethane Concentration: 19.2054 ug/L

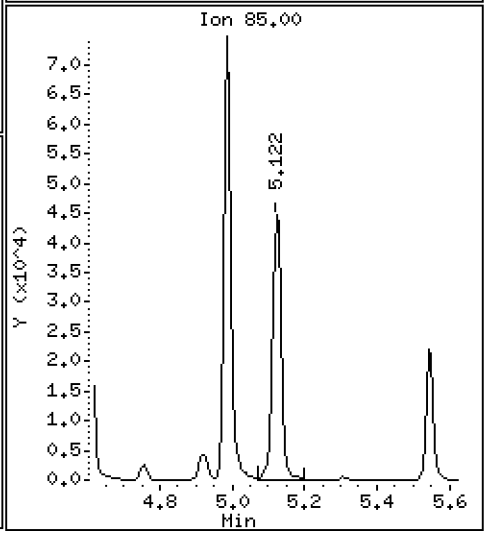


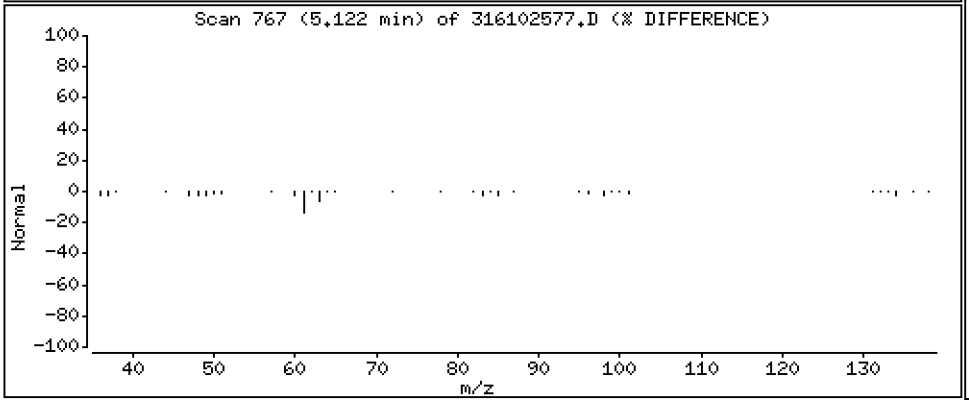












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 86

Date : 26-OCT-2016 07:30

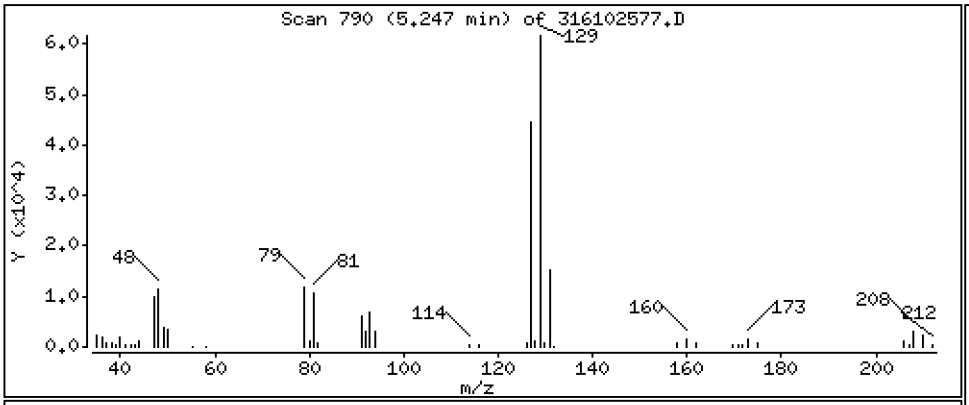
Client ID: 2184163001MS Instrument: ms03.i

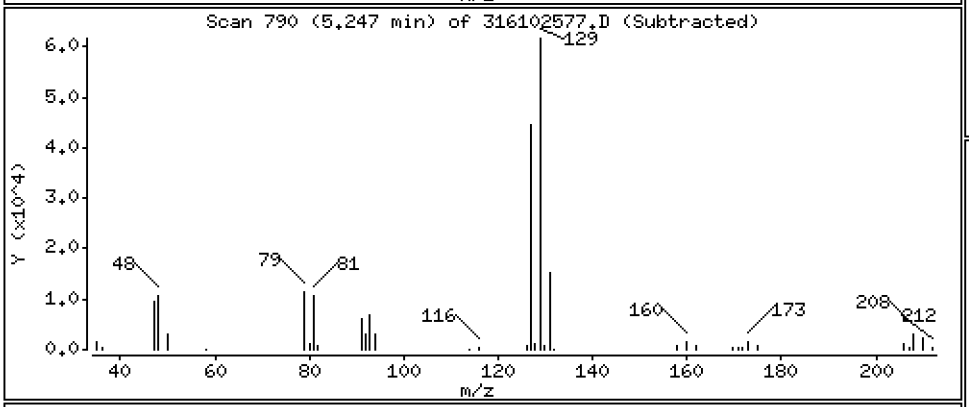
Sample Info: 2429373;;1;3;;MS;1;

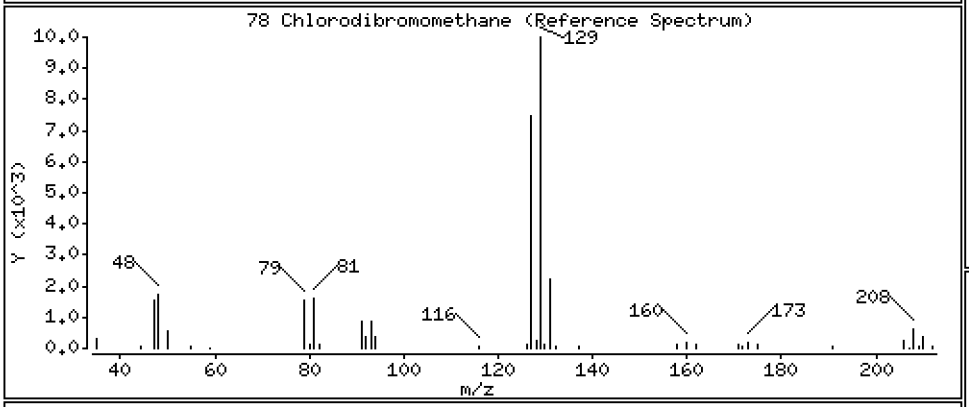
Purge Volume: 5.0 Operator: CJG

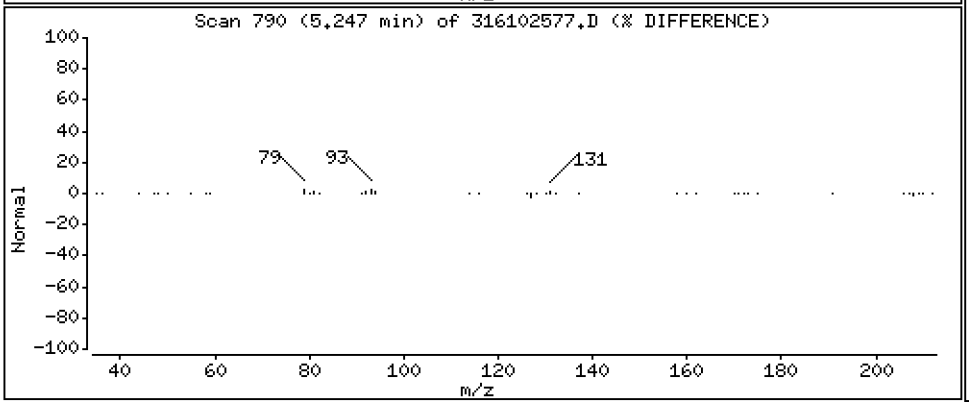
Column phase: DB-VRX Column diameter: 0.25

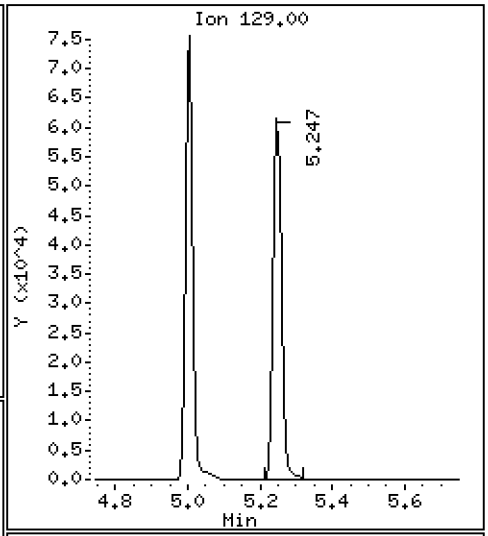
78 Chlorodibromomethane Concentration: 17.9684 ug/L

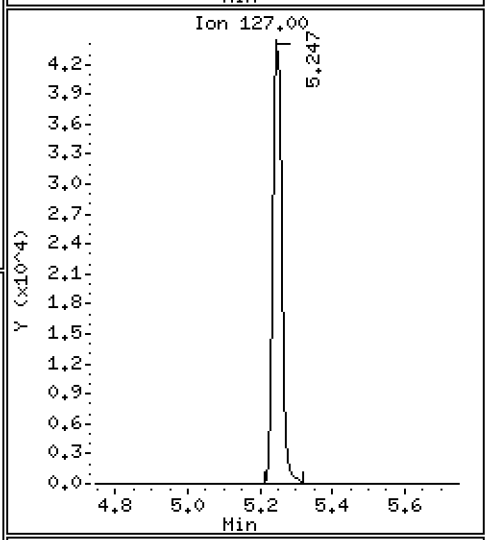


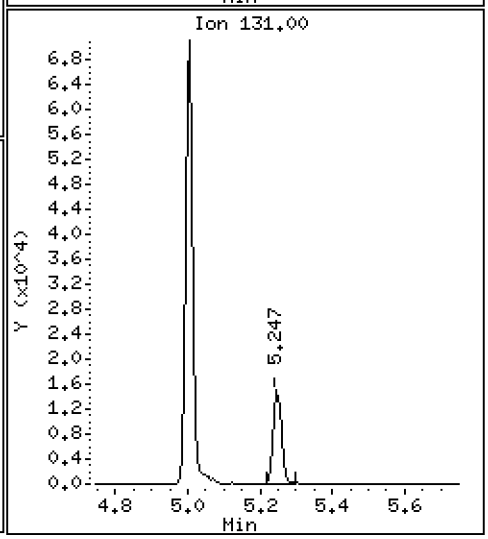












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 87

Date : 26-OCT-2016 07:30

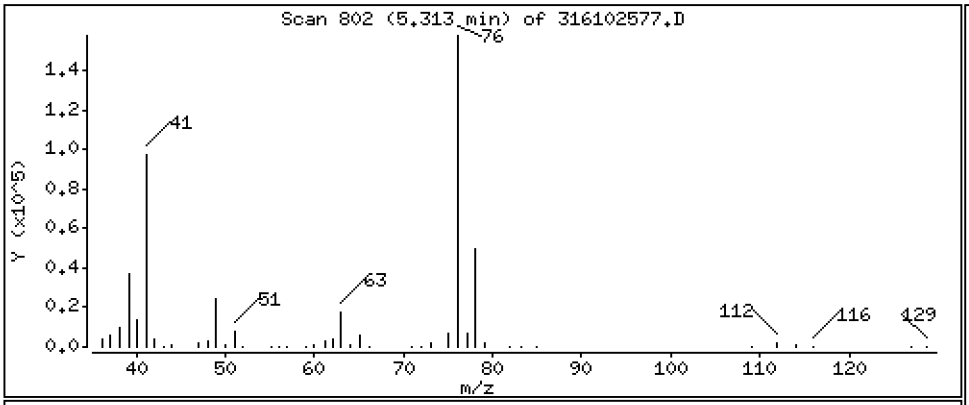
Client ID: 2184163001MS Instrument: ms03.i

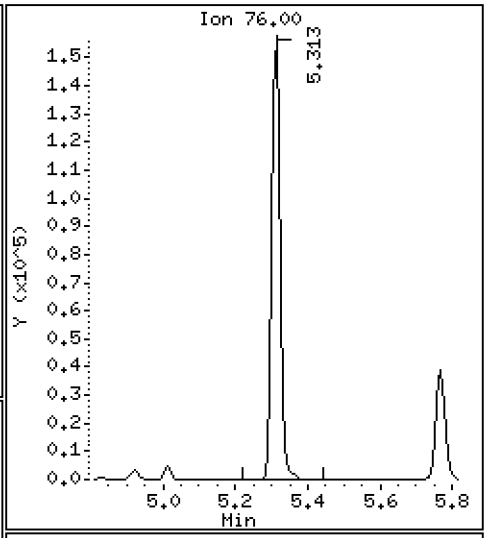
Sample Info: 2429373;;1;3;;MS;1;

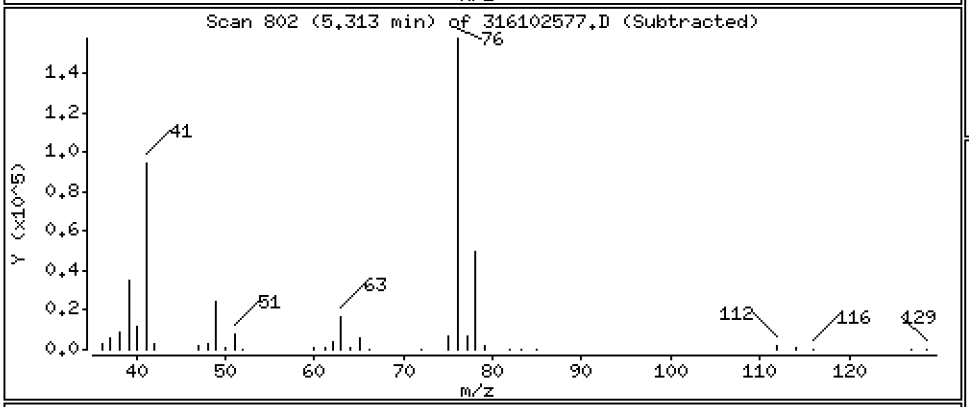
Purge Volume: 5.0 Operator: CJG

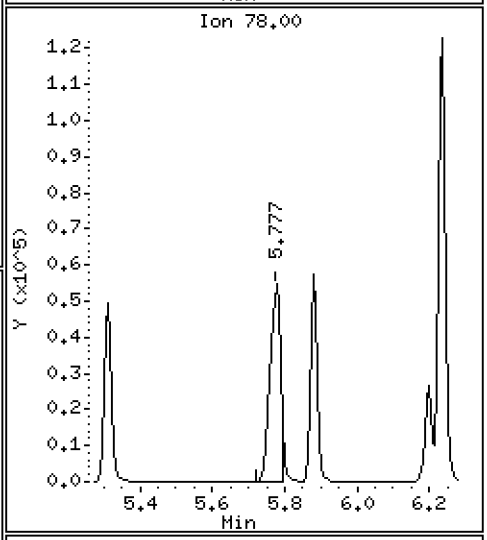
Column phase: DB-VRX Column diameter: 0.25

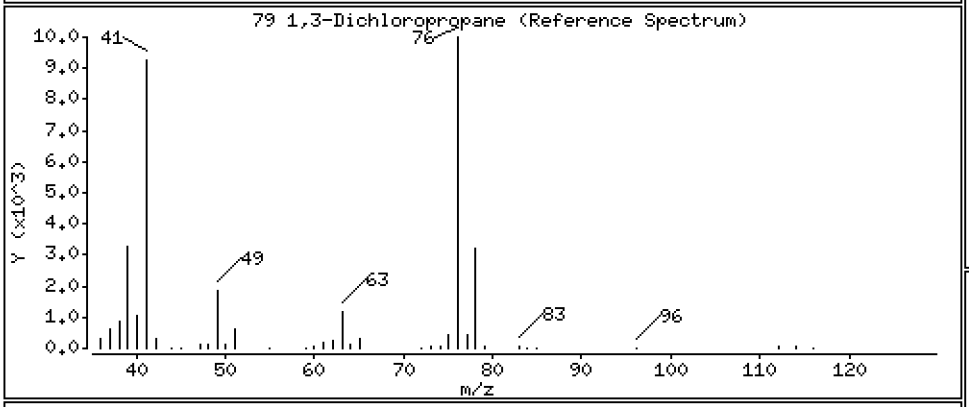
79 1,3-Dichloropropane Concentration: 18.9428 ug/L

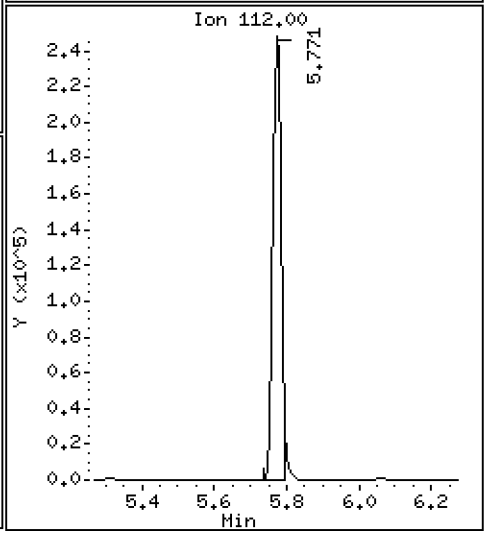


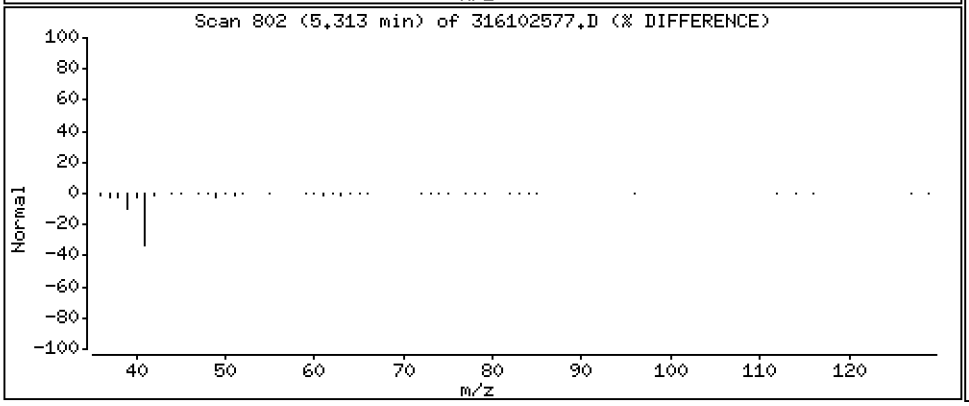












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 88

Date : 26-OCT-2016 07:30

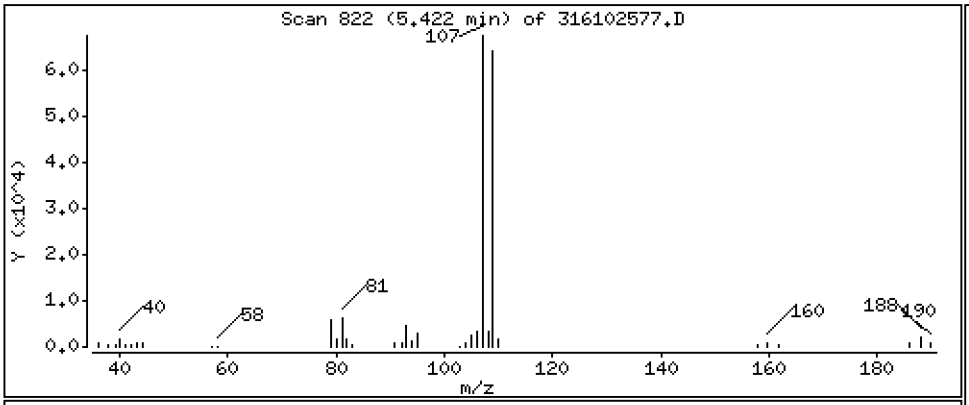
Client ID: 2184163001MS Instrument: ms03.i

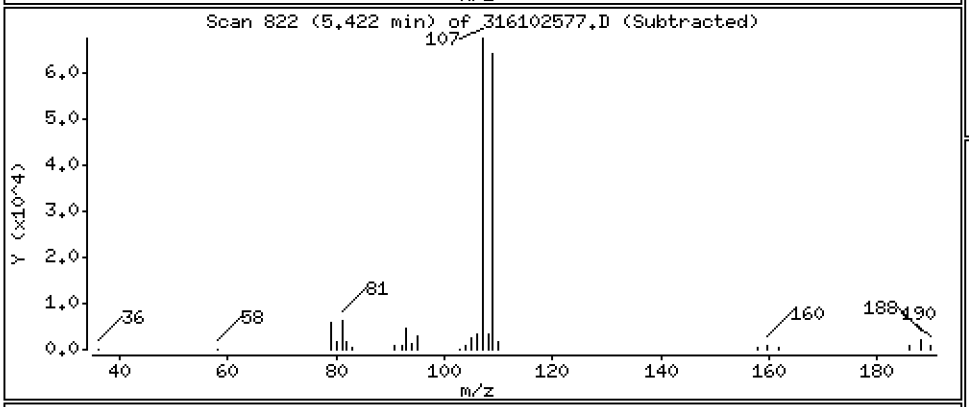
Sample Info: 2429373;;1;3;;MS;1;

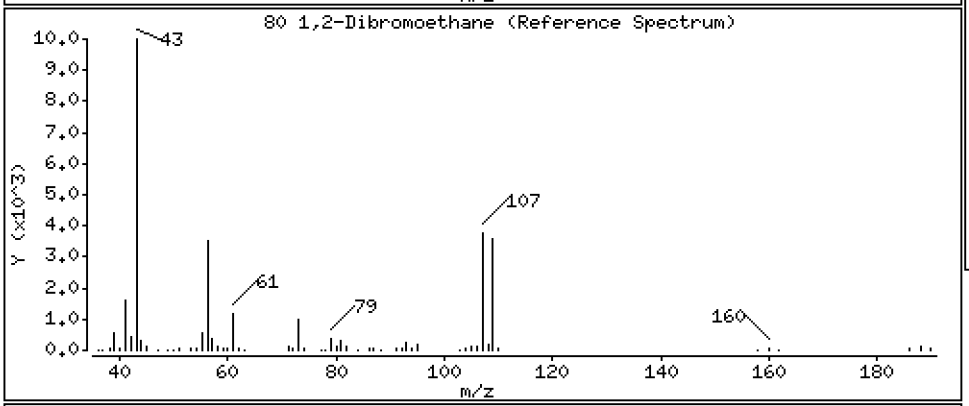
Purge Volume: 5.0 Operator: CJG

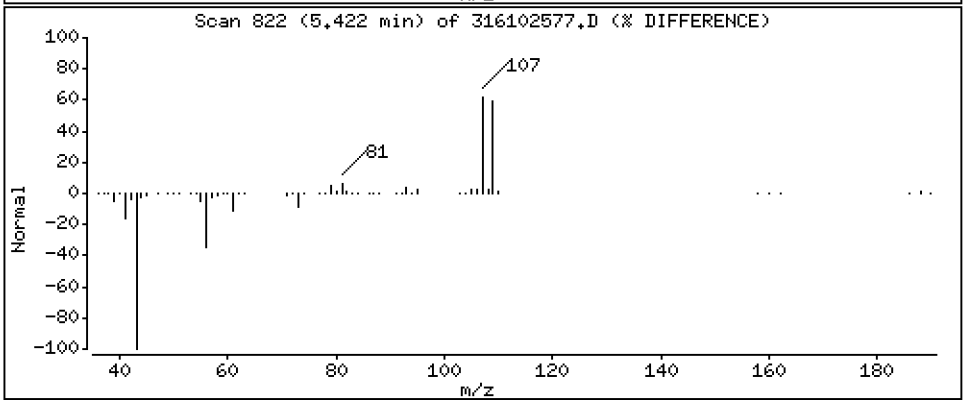
Column phase: DB-VRX Column diameter: 0.25

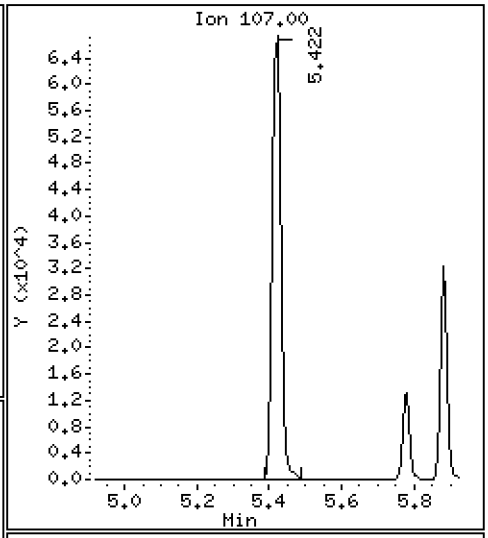
80 1,2-Dibromoethane Concentration: 18.3793 ug/L

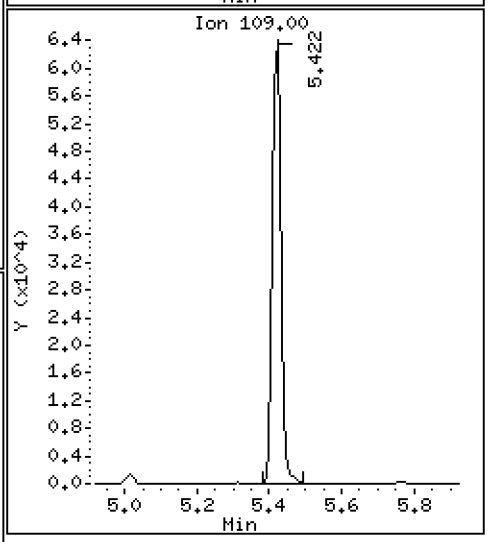












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 89

Date : 26-OCT-2016 07:30

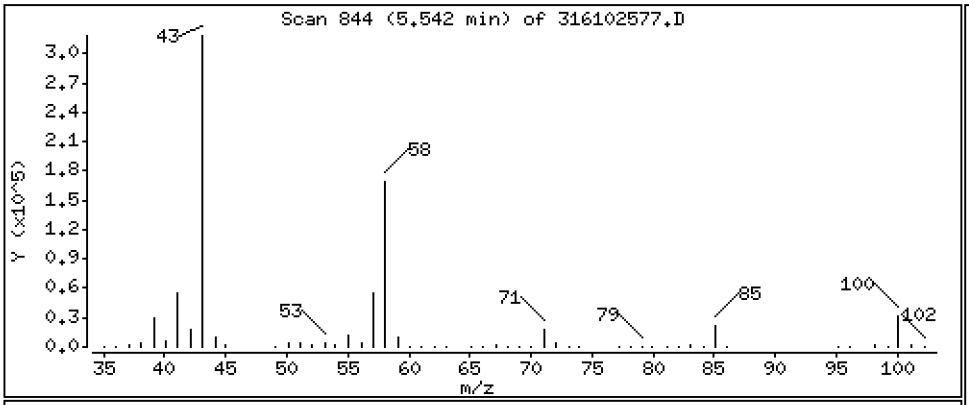
Client ID: 2184163001MS Instrument: ms03.i

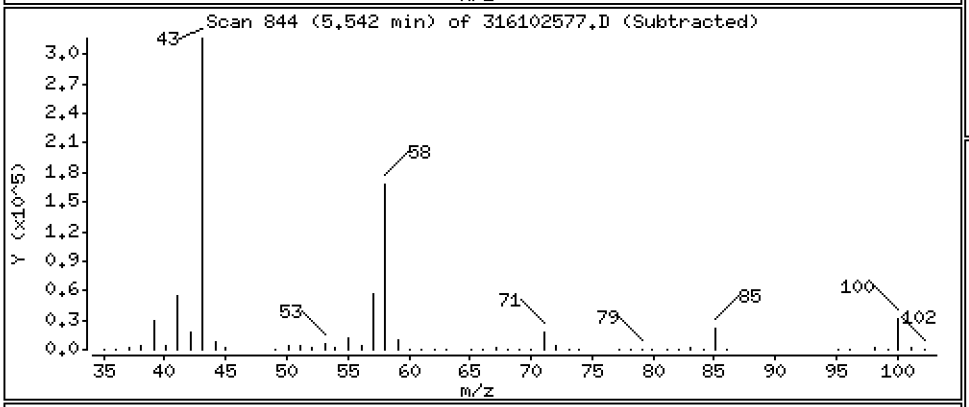
Sample Info: 2429373;;1;3;;MS;1;

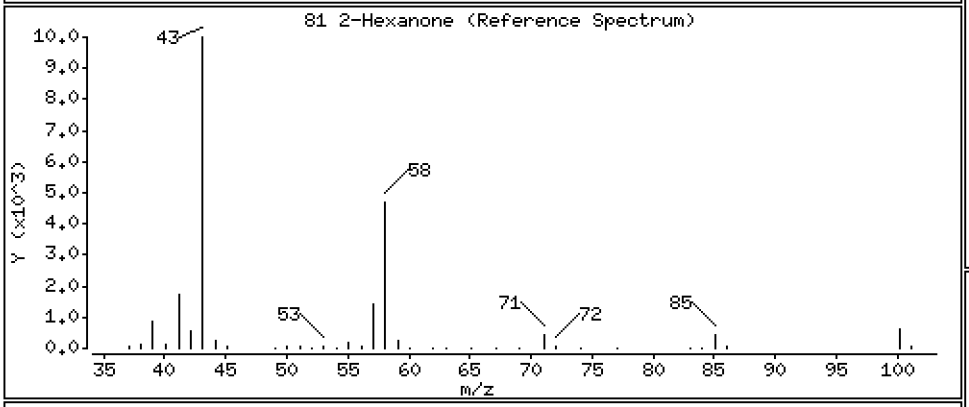
Purge Volume: 5.0 Operator: CJG

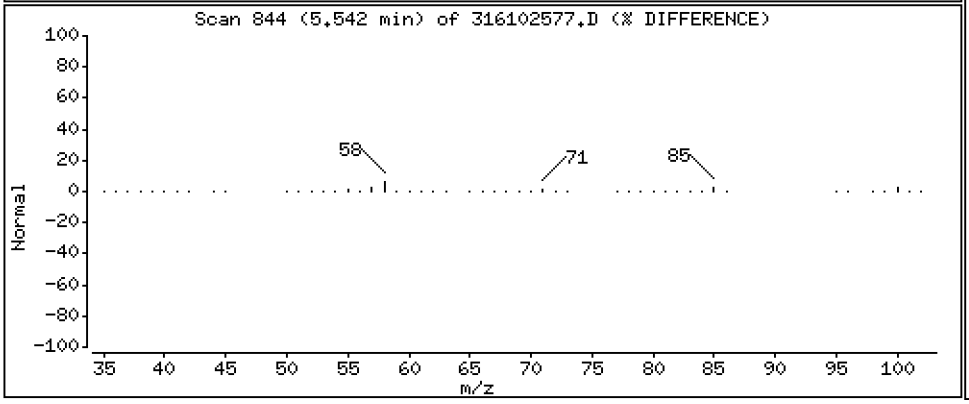
Column phase: DB-VRX Column diameter: 0.25

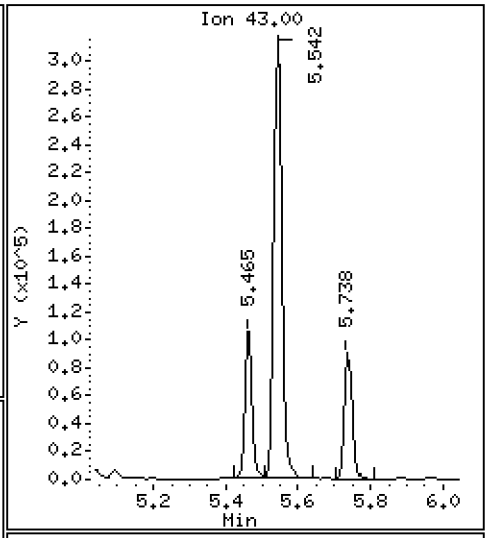
81 2-Hexanone Concentration: 107.289 ug/L

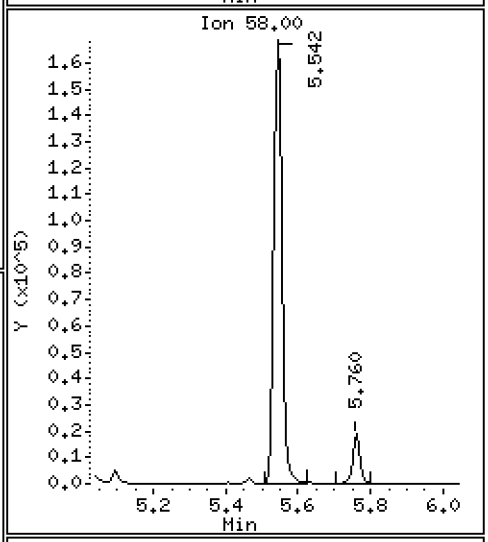


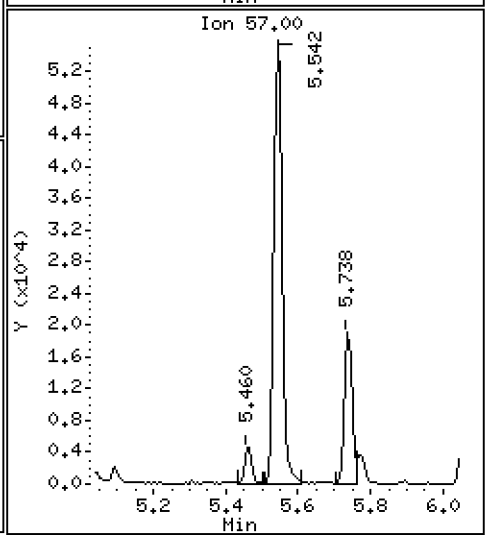












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 90

Date : 26-OCT-2016 07:30

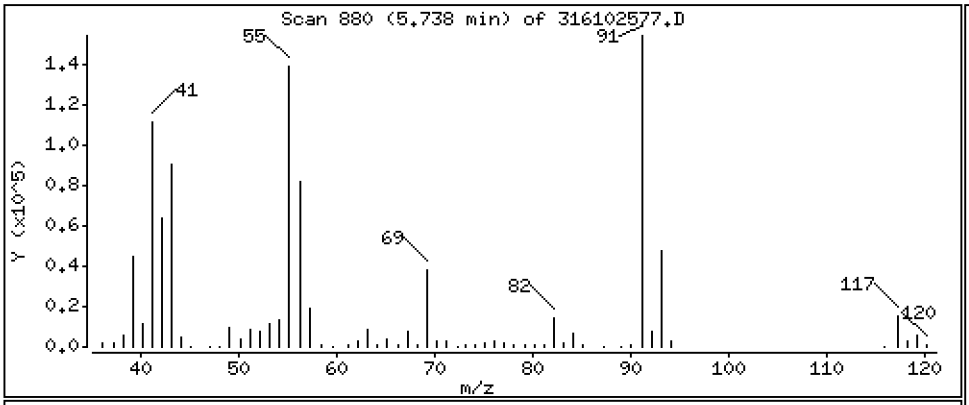
Client ID: 2184163001MS Instrument: ms03.i

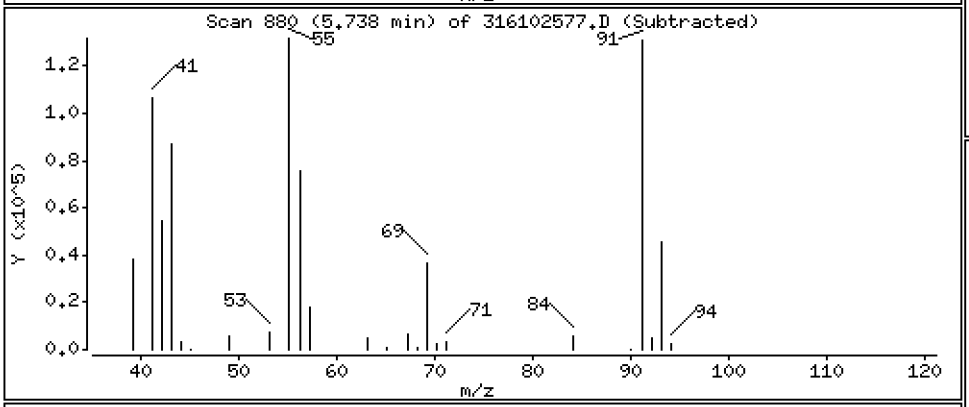
Sample Info: 2429373;;1;3;;MS;1;

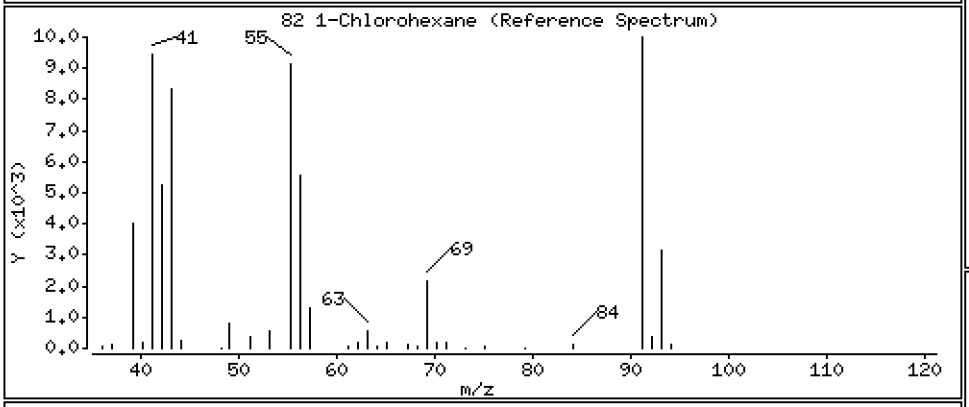
Purge Volume: 5.0 Operator: CJG

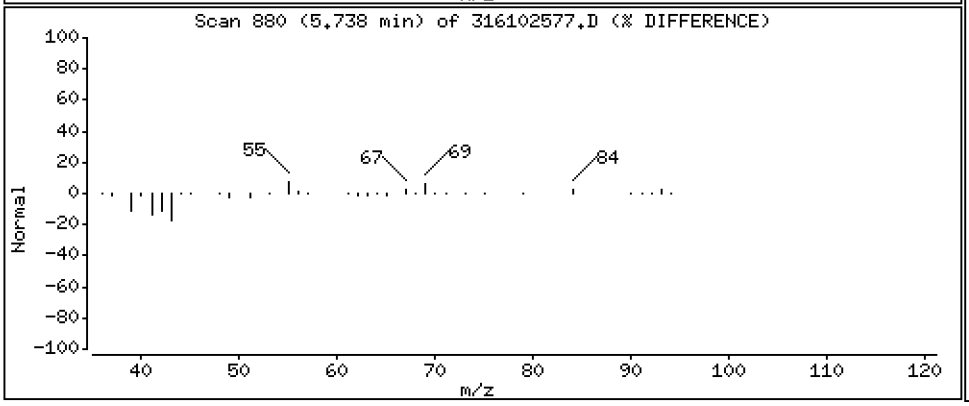
Column phase: DB-VRX Column diameter: 0.25

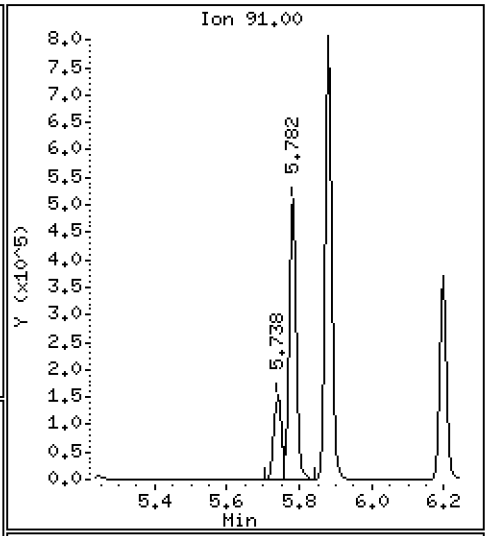
82 1-Chlorohexane Concentration: 20.5367 ug/L

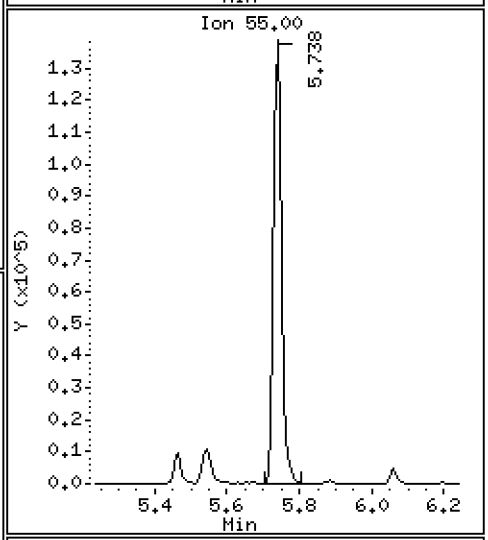


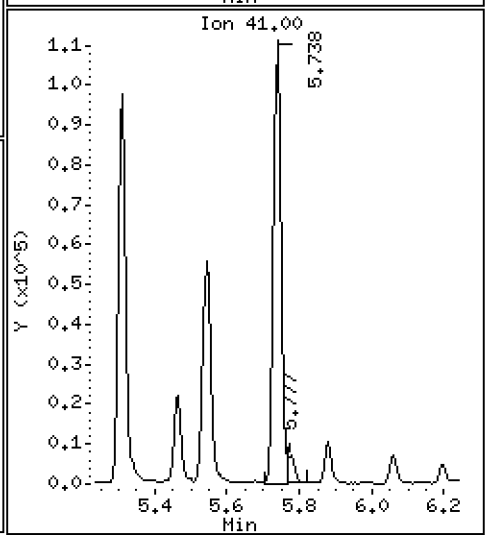












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 91

Date : 26-OCT-2016 07:30

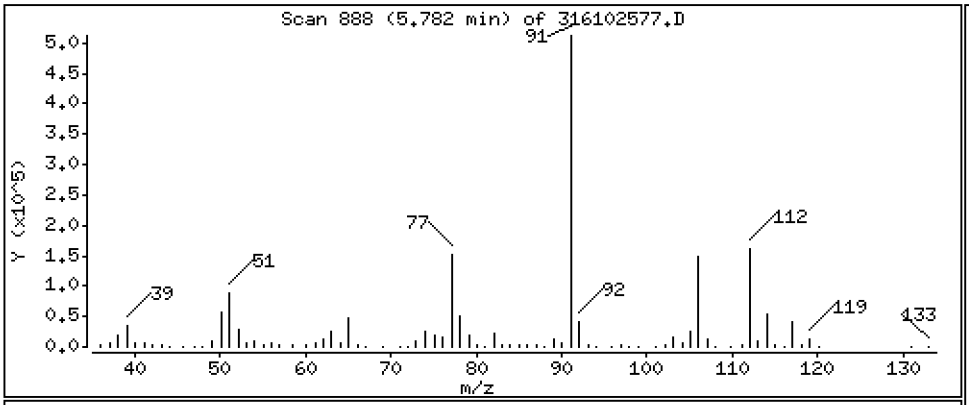
Client ID: 2184163001MS Instrument: ms03.i

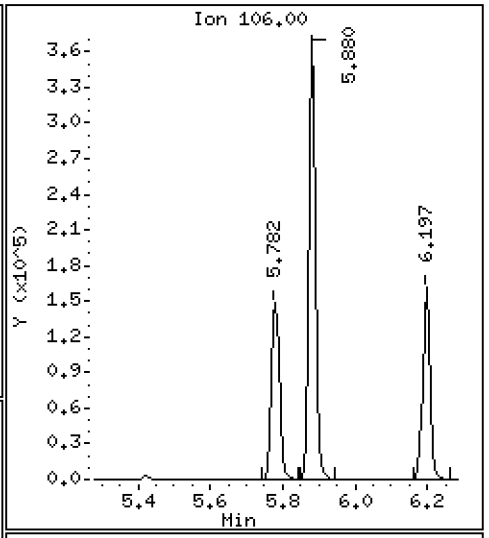
Sample Info: 2429373;;1;3;;MS;1;

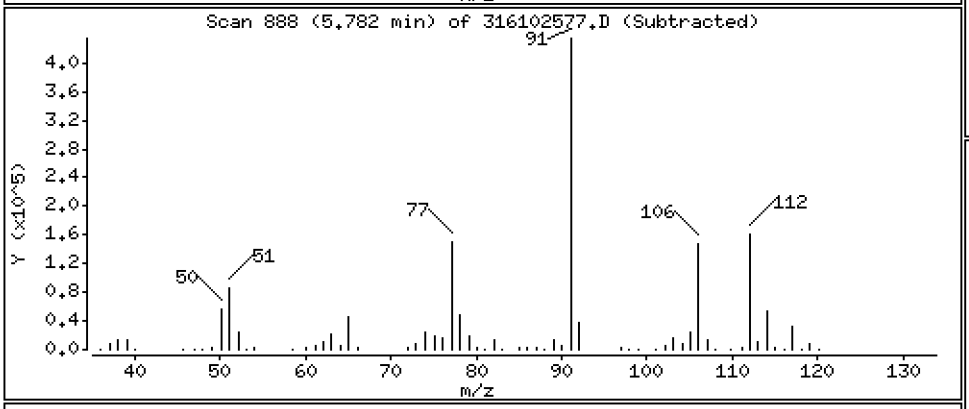
Purge Volume: 5.0 Operator: CJG

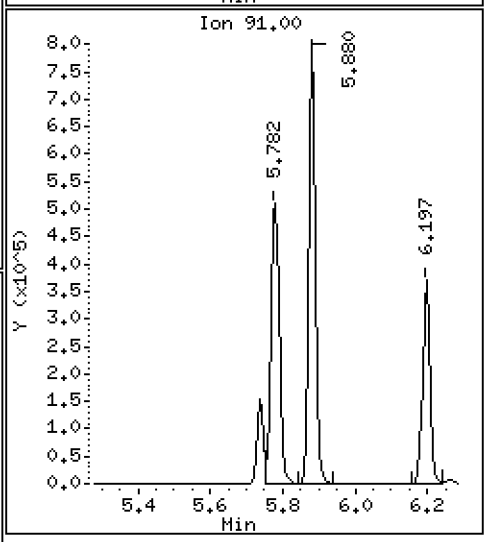
Column phase: DB-VRX Column diameter: 0.25

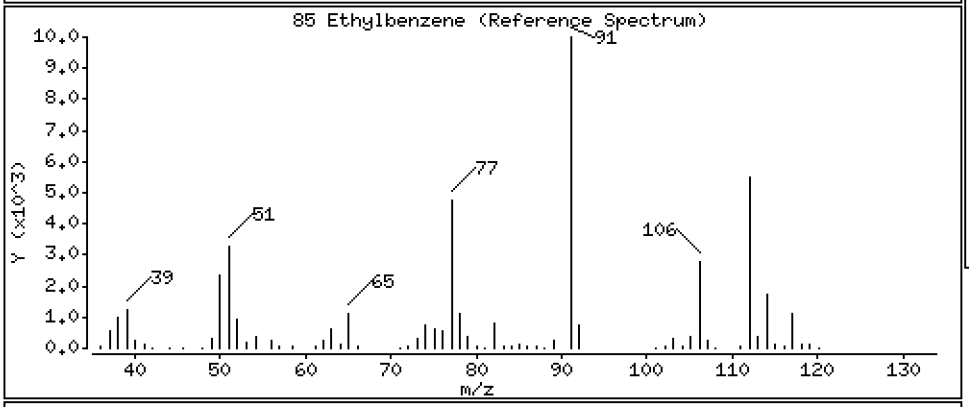
85 Ethylbenzene Concentration: 19.2327 ug/L

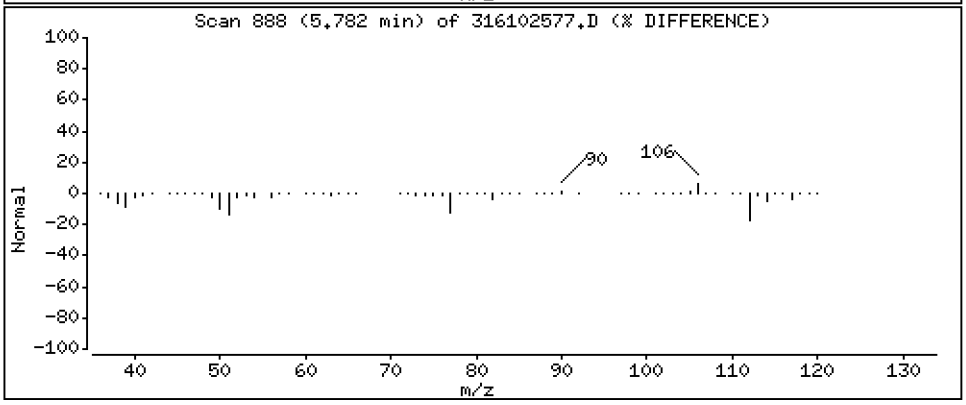












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 92

Date : 26-OCT-2016 07:30

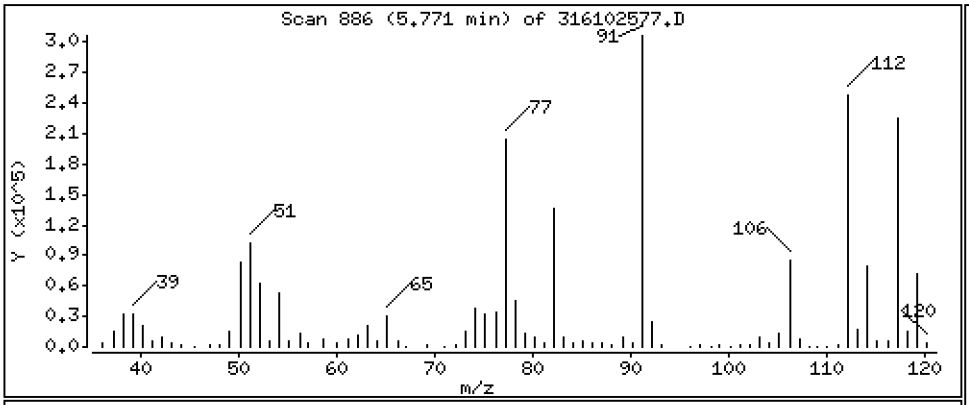
Client ID: 2184163001MS Instrument: ms03.i

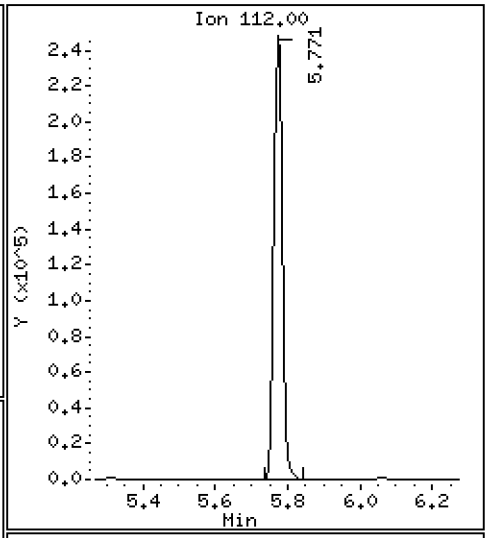
Sample Info: 2429373;;1;3;;MS;1;

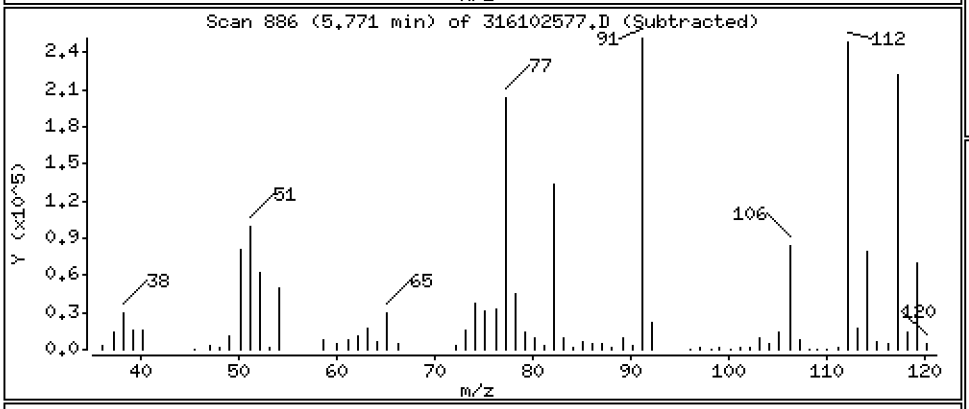
Purge Volume: 5.0 Operator: CJG

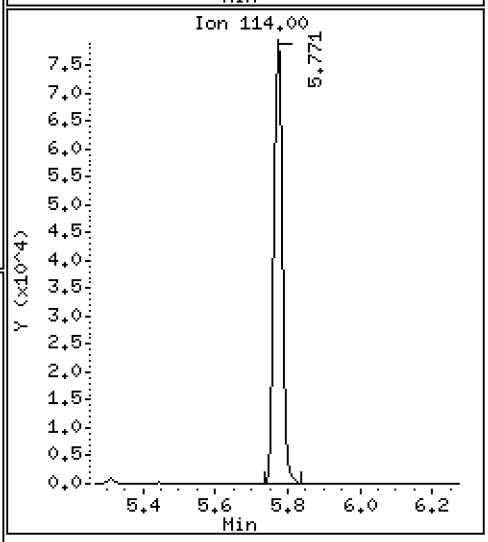
Column phase: DB-VRX Column diameter: 0.25

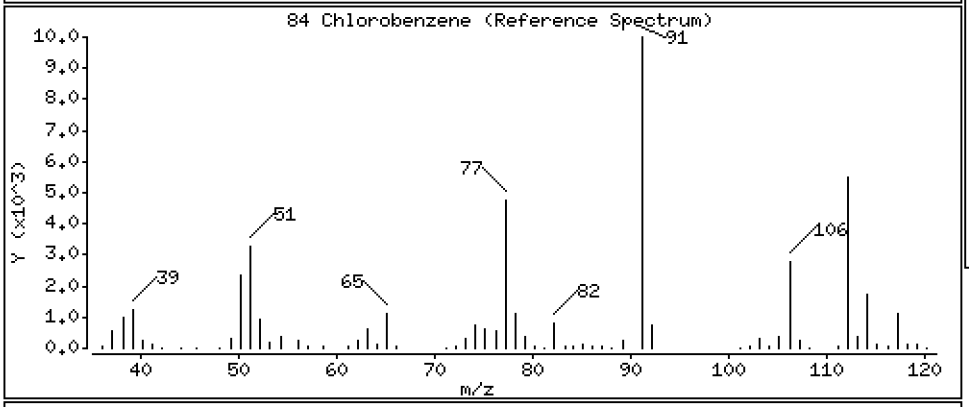
84 Chlorobenzene Concentration: 18.3643 ug/L

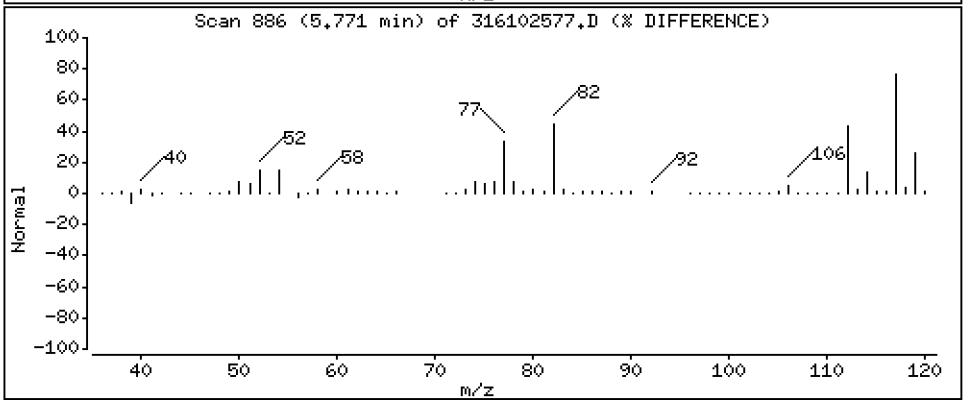












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 93

Date : 26-OCT-2016 07:30

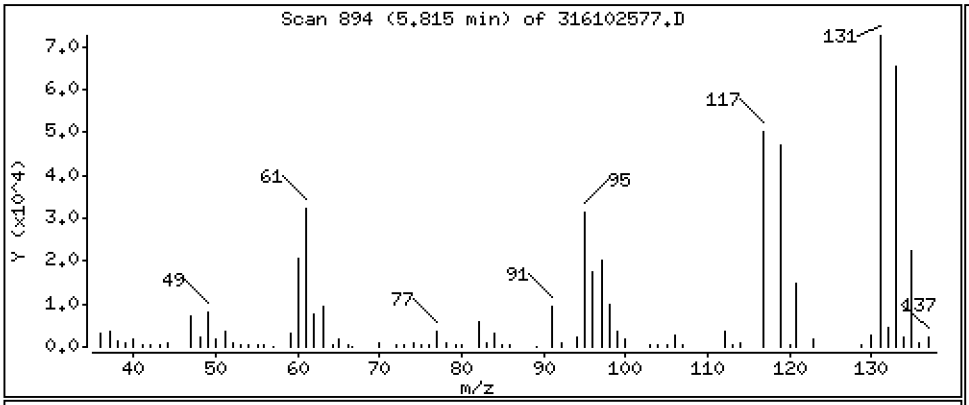
Client ID: 2184163001MS Instrument: ms03.i

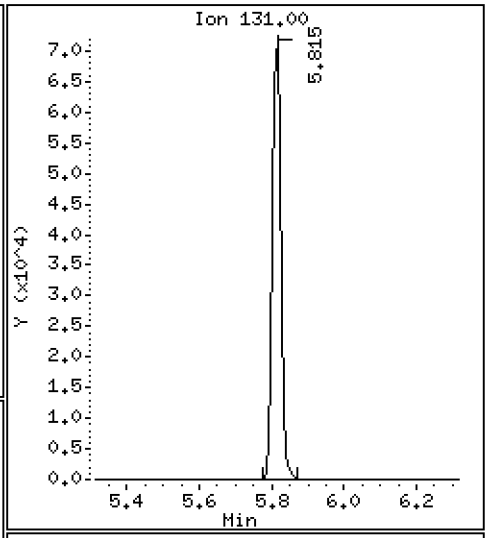
Sample Info: 2429373;;1;3;;MS;1;

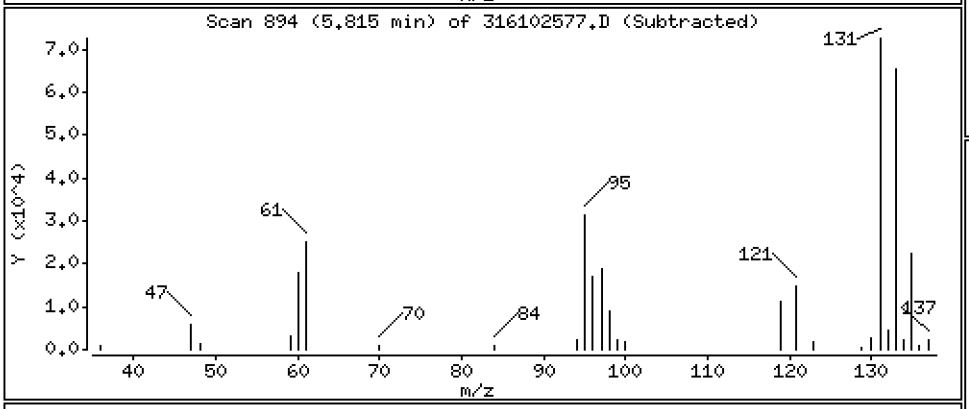
Purge Volume: 5.0 Operator: CJG

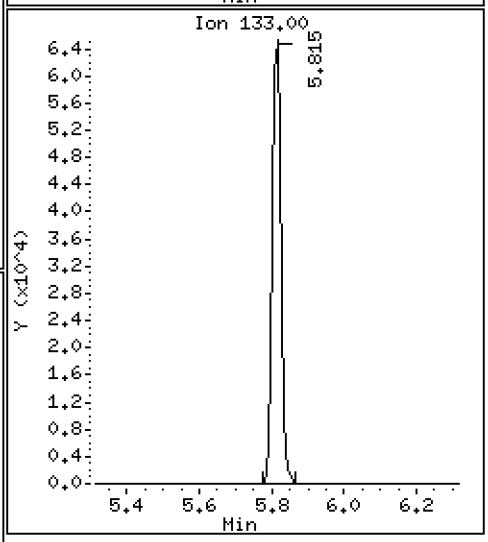
Column phase: DB-VRX Column diameter: 0.25

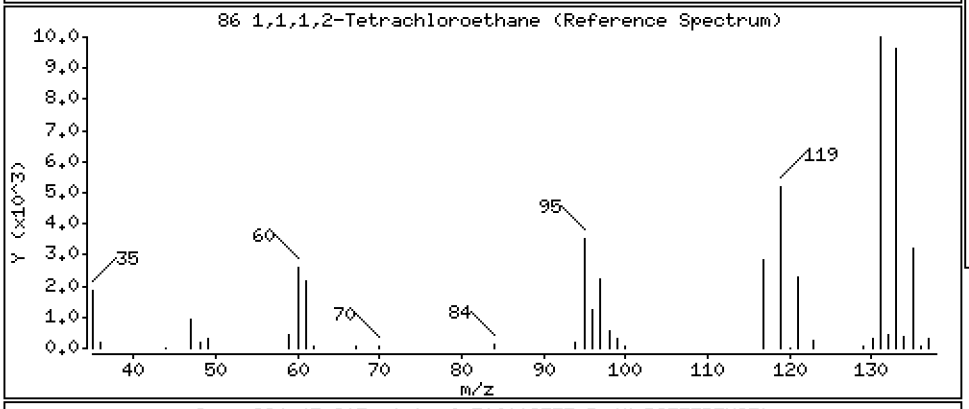
86 1,1,1,2-Tetrachloroethane Concentration: 19.9626 ug/L

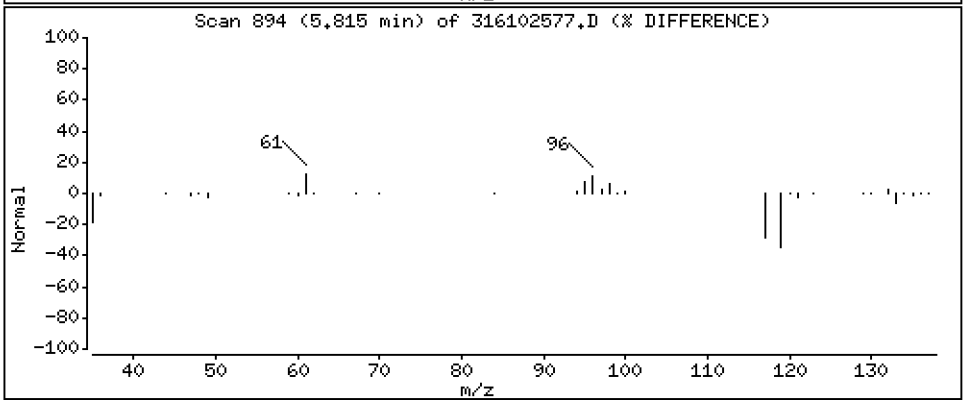












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 94

Date : 26-OCT-2016 07:30

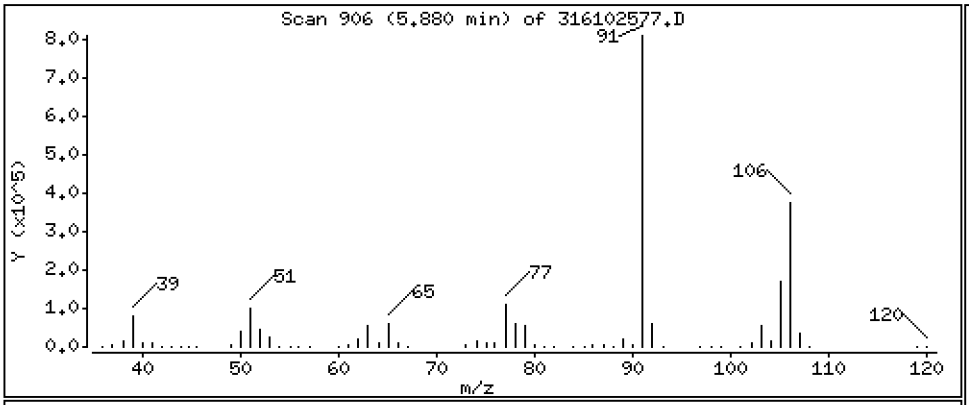
Client ID: 2184163001MS Instrument: ms03.i

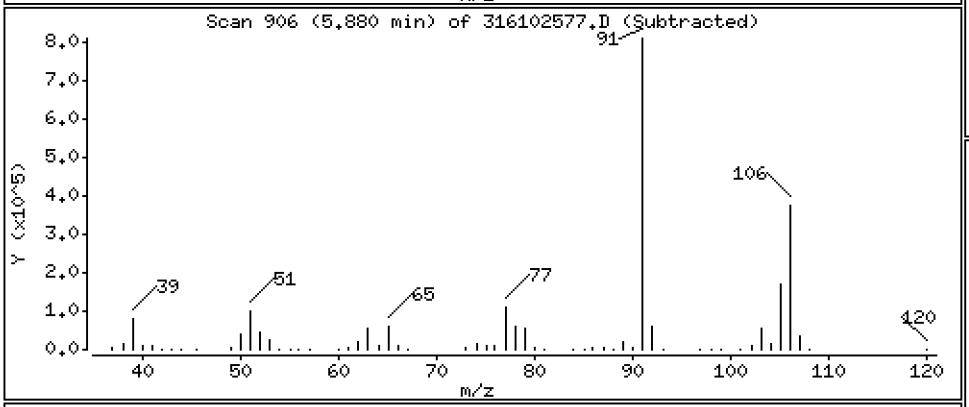
Sample Info: 2429373:1:3::MS:1:

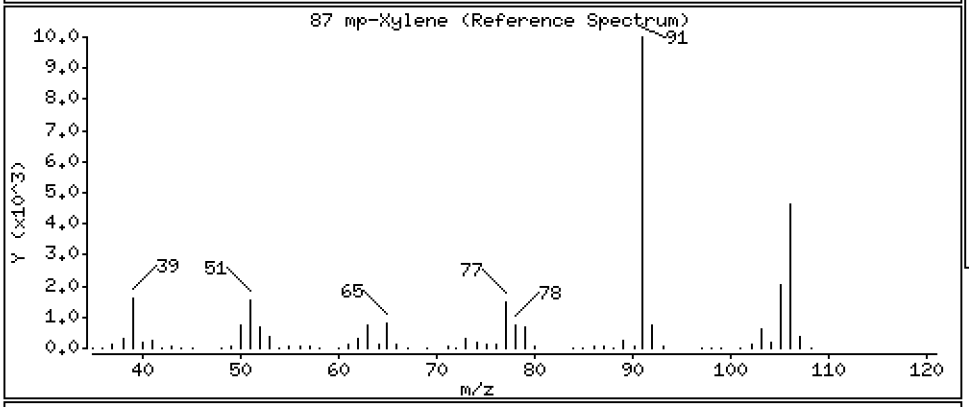
Purge Volume: 5.0 Operator: CJG

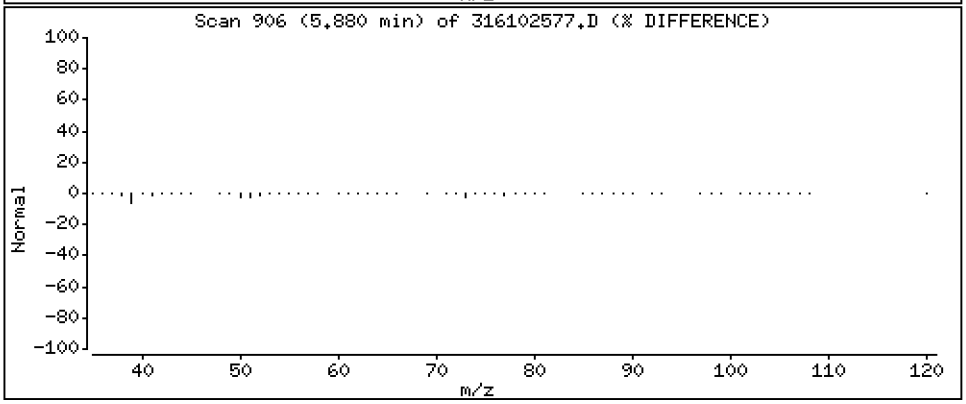
Column phase: DB-VRX Column diameter: 0.25

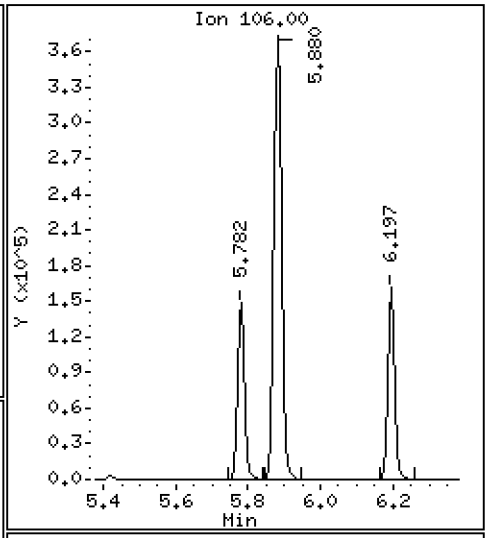
87 mp-Xylene Concentration: 39.2694 ug/L

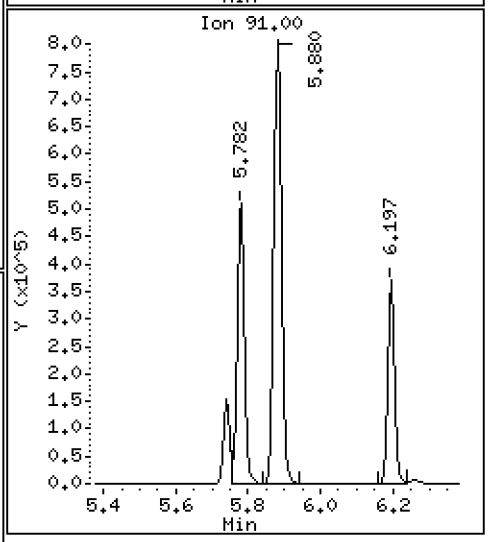












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 95

Date : 26-OCT-2016 07:30

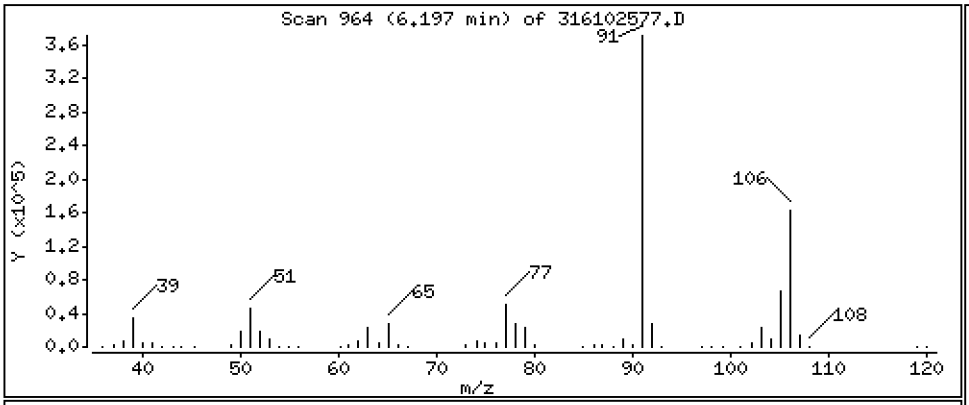
Client ID: 2184163001MS Instrument: ms03.i

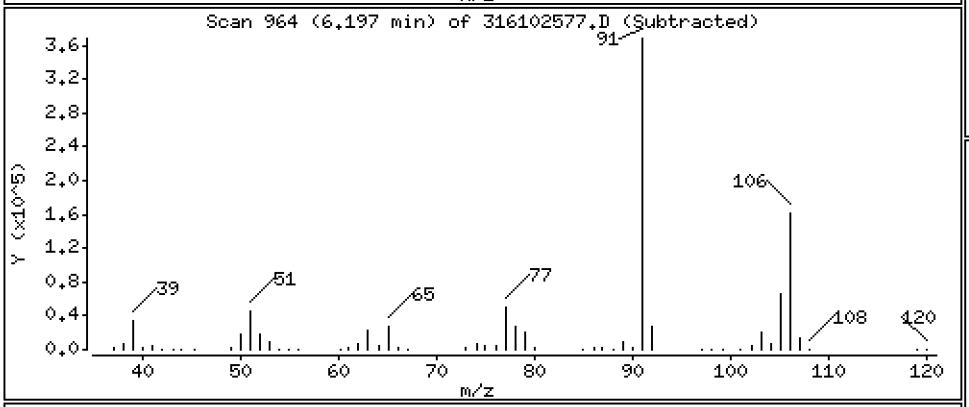
Sample Info: 2429373;;1;3;;MS;1;

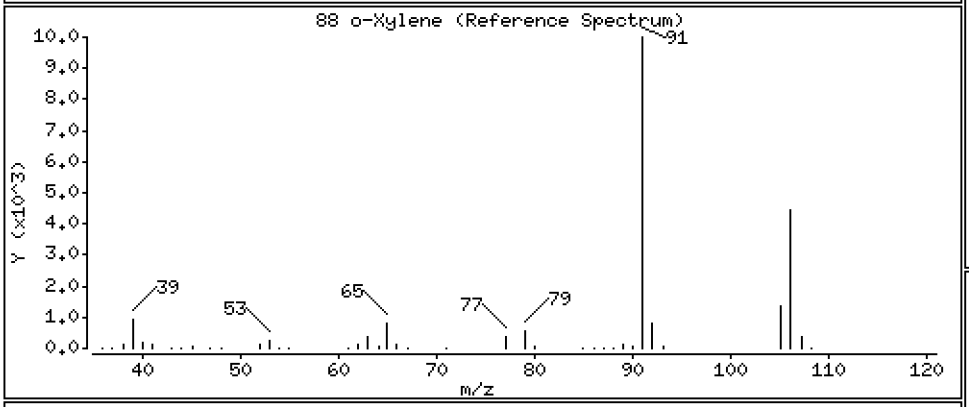
Purge Volume: 5.0 Operator: CJG

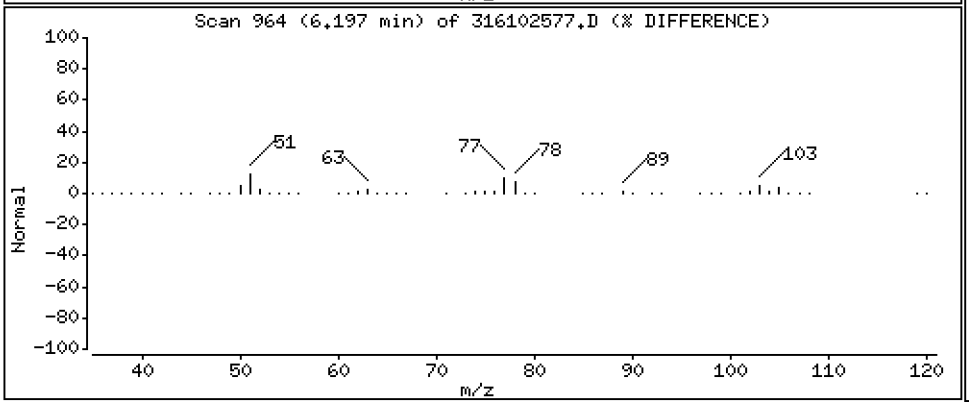
Column phase: DB-VRX Column diameter: 0.25

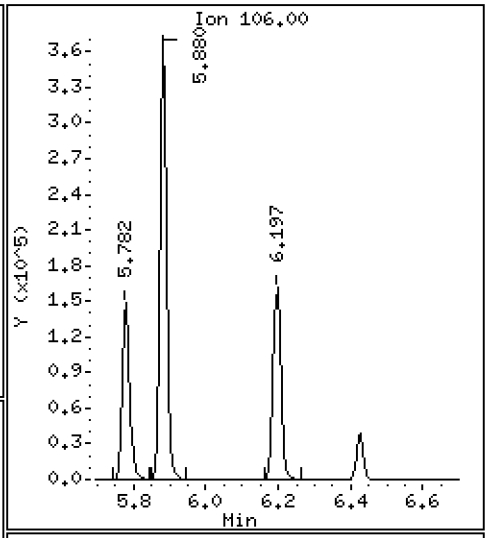
88 o-Xylene Concentration: 19.5556 ug/L

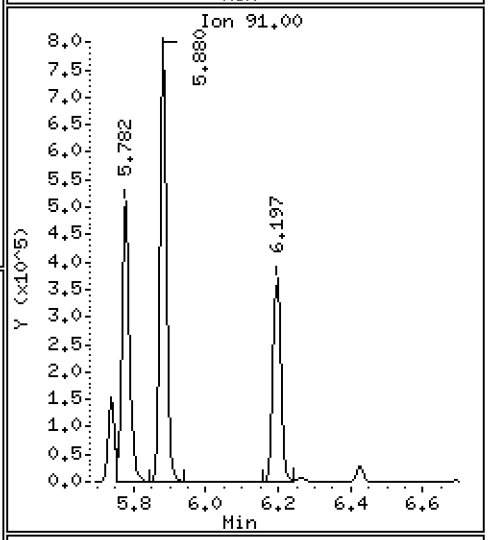


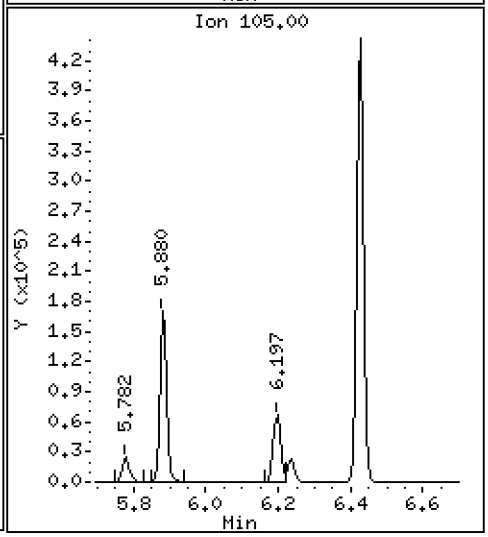












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 96

Date : 26-OCT-2016 07:30

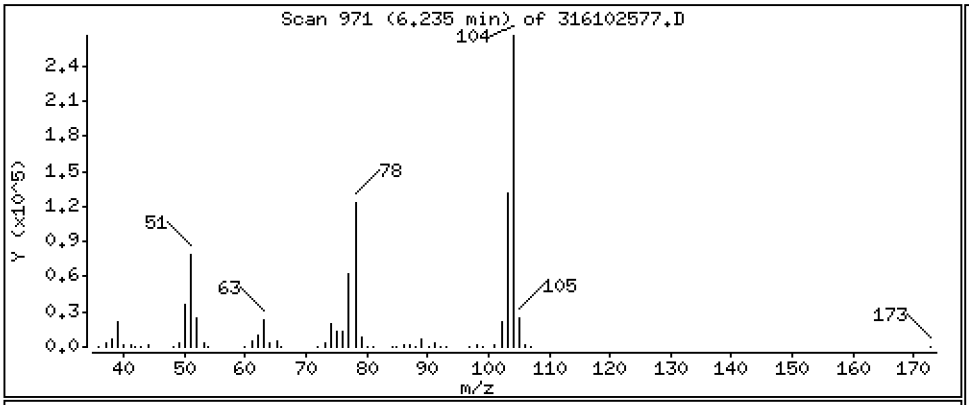
Client ID: 2184163001MS Instrument: ms03.i

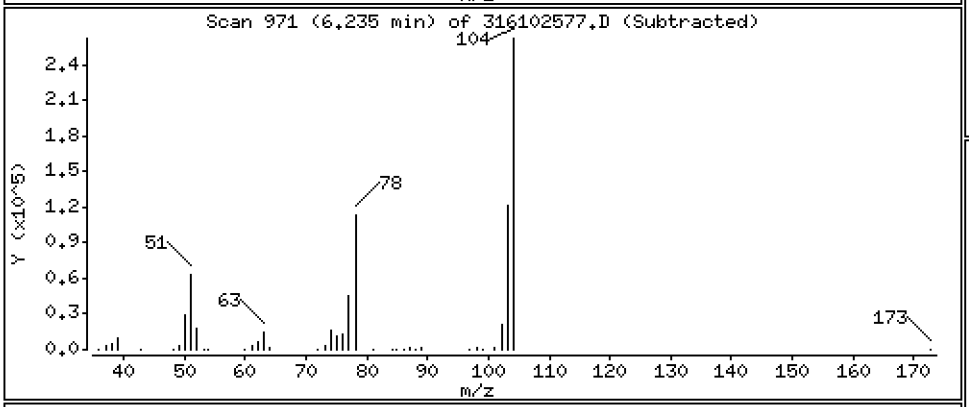
Sample Info: 2429373:1:3::MS:1:

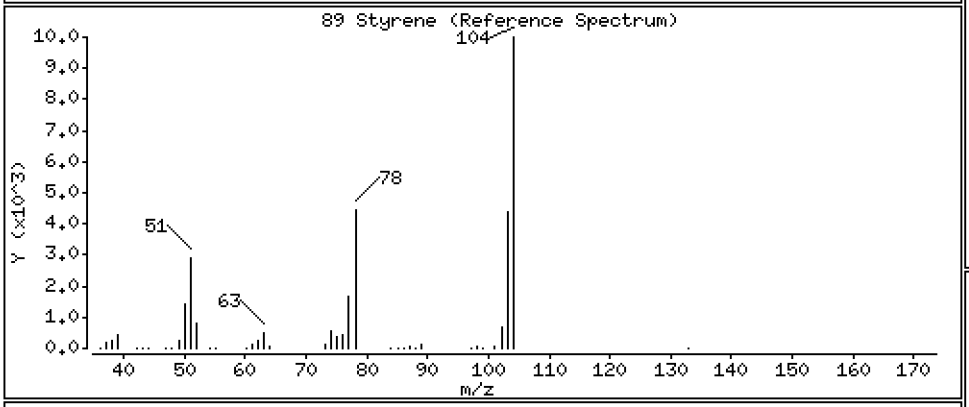
Purge Volume: 5.0 Operator: CJG

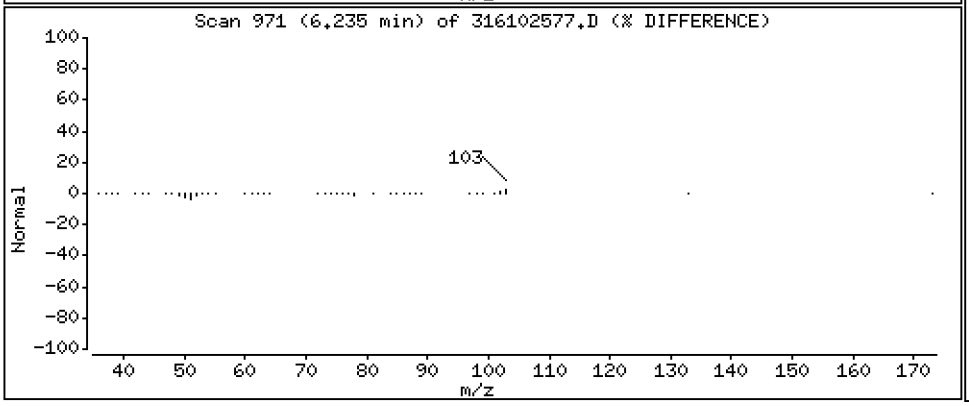
Column phase: DB-VRX Column diameter: 0.25

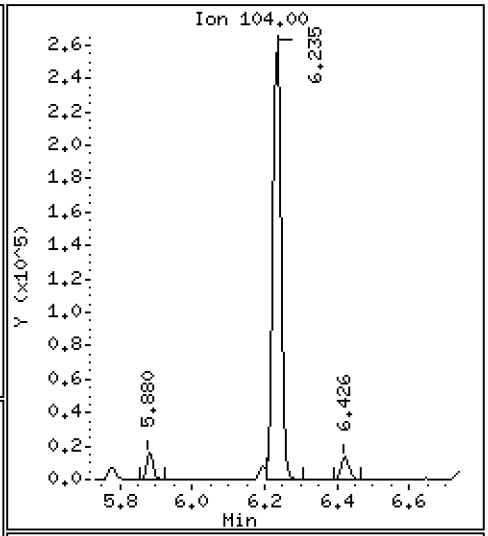
89 Styrene Concentration: 21.1389 ug/L

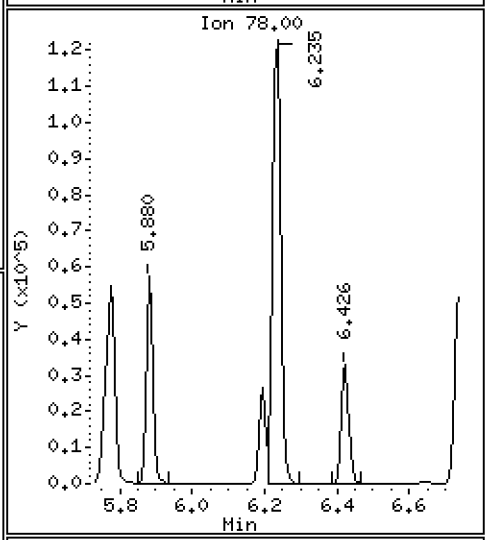


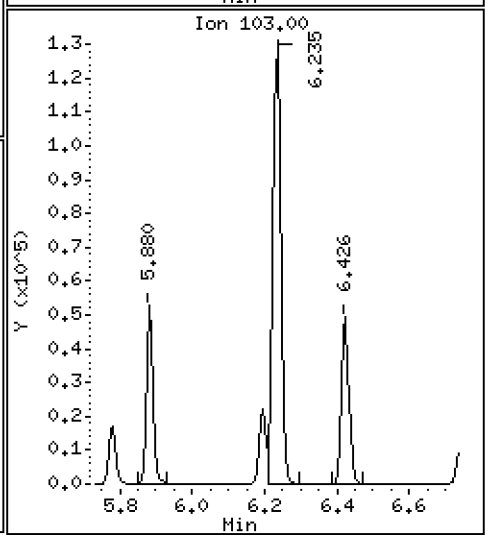












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 97

Date : 26-OCT-2016 07:30

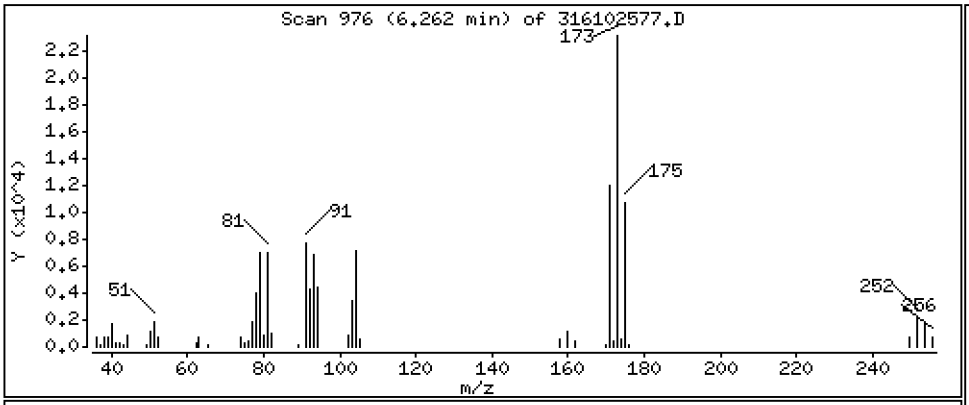
Client ID: 2184163001MS Instrument: ms03.i

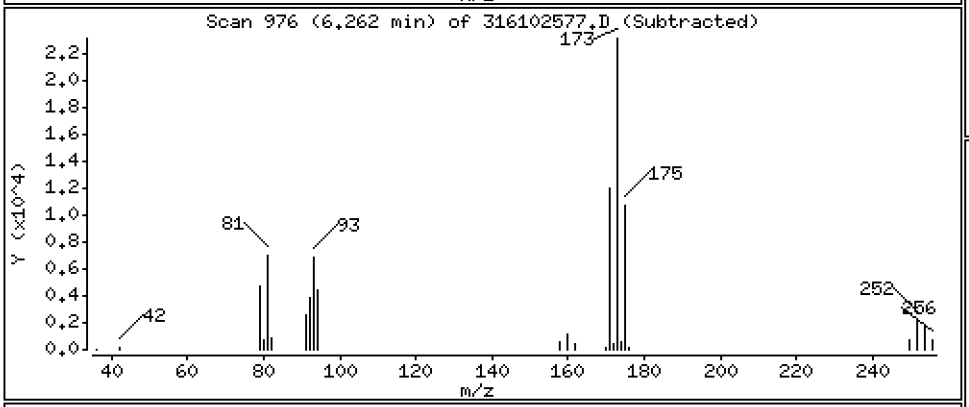
Sample Info: 2429373;;1;3;;MS;1;

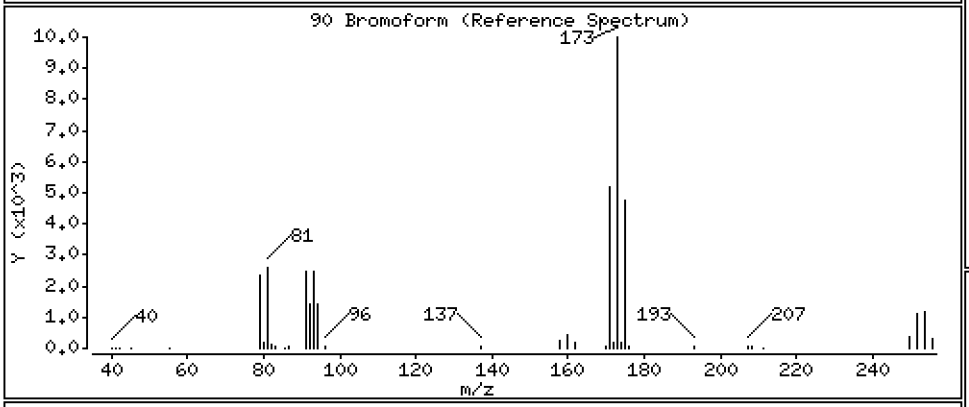
Purge Volume: 5.0 Operator: CJG

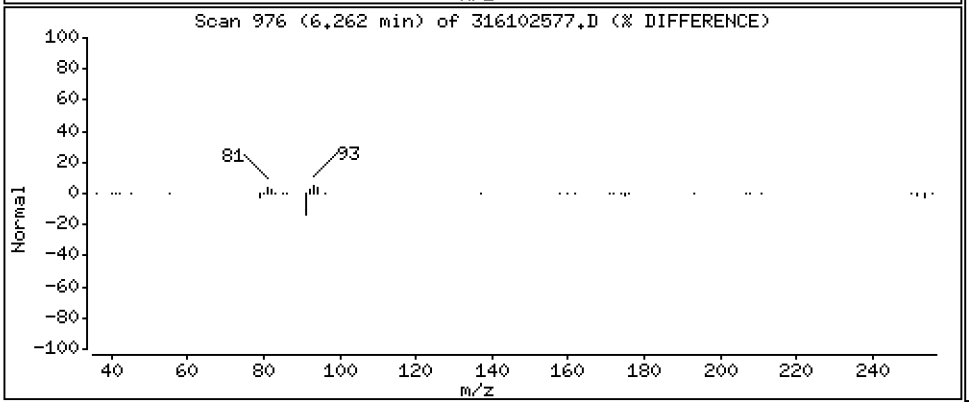
Column phase: DB-VRX Column diameter: 0.25

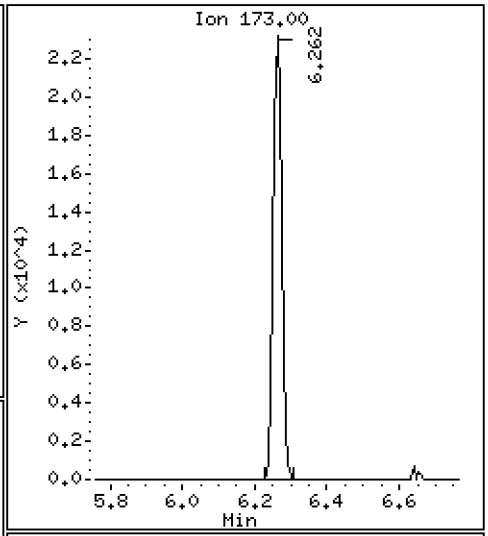
90 Bromoform Concentration: 16.1102 ug/L

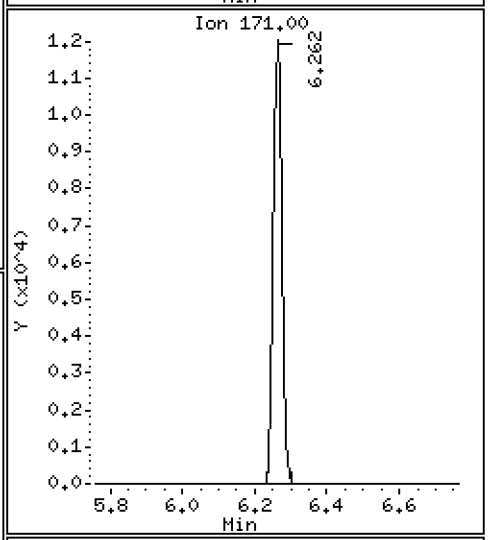


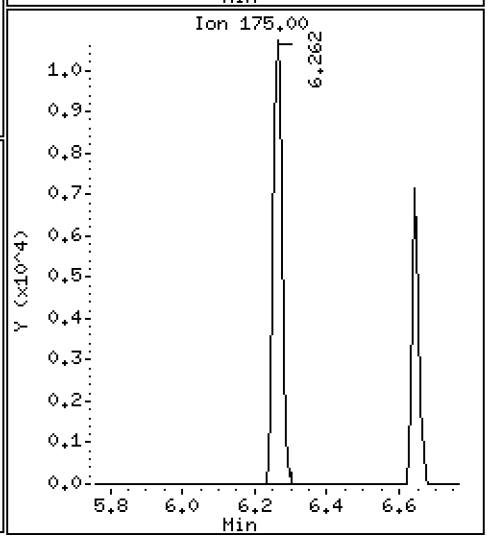












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 98

Date : 26-OCT-2016 07:30

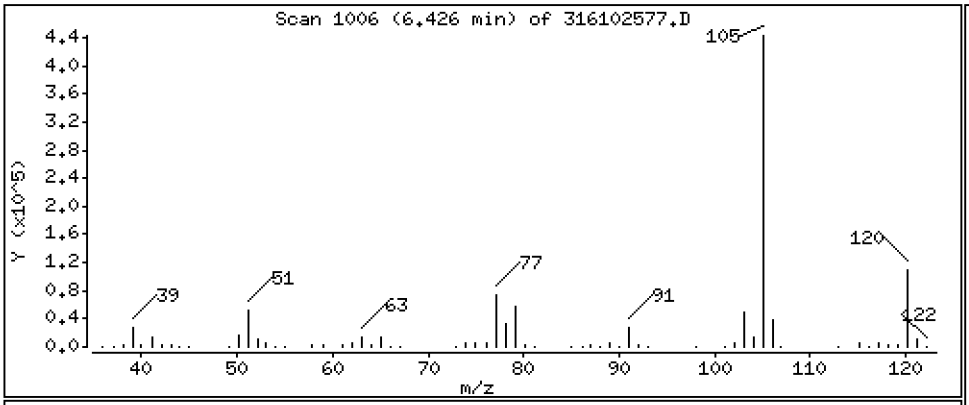
Client ID: 2184163001MS Instrument: ms03.i

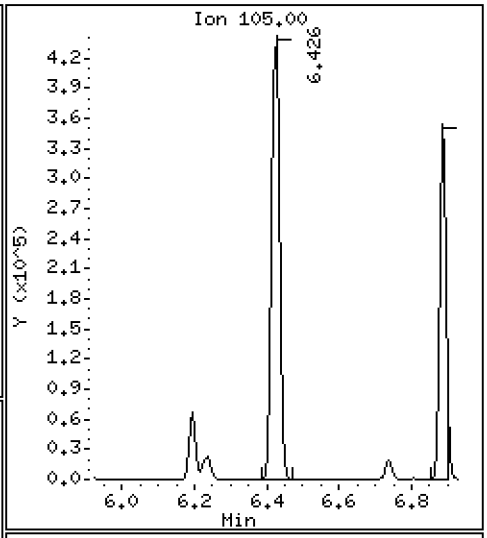
Sample Info: 2429373;;1;3;;MS;1;

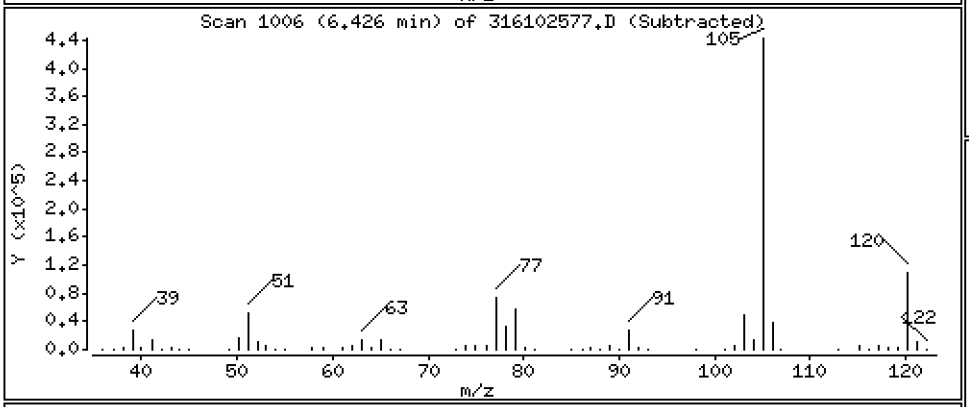
Purge Volume: 5.0 Operator: CJG

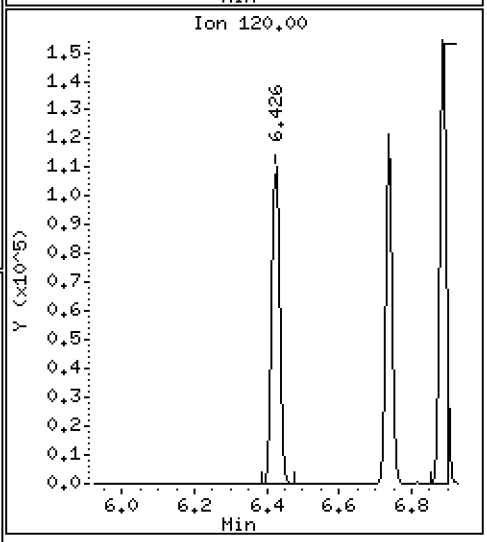
Column phase: DB-VRX Column diameter: 0.25

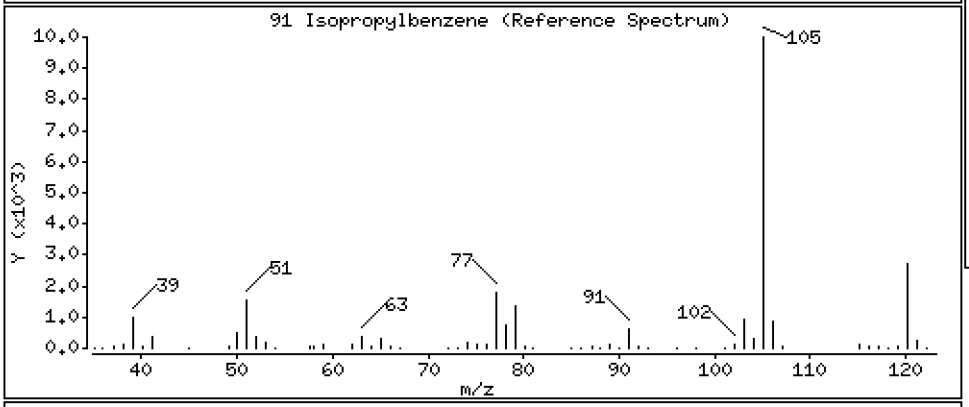
91 Isopropylbenzene Concentration: 21.3476 ug/L

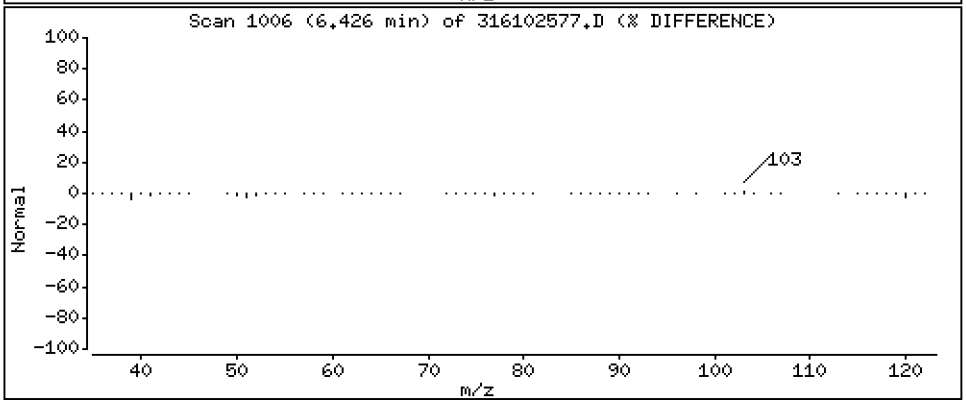












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 99

Date : 26-OCT-2016 07:30

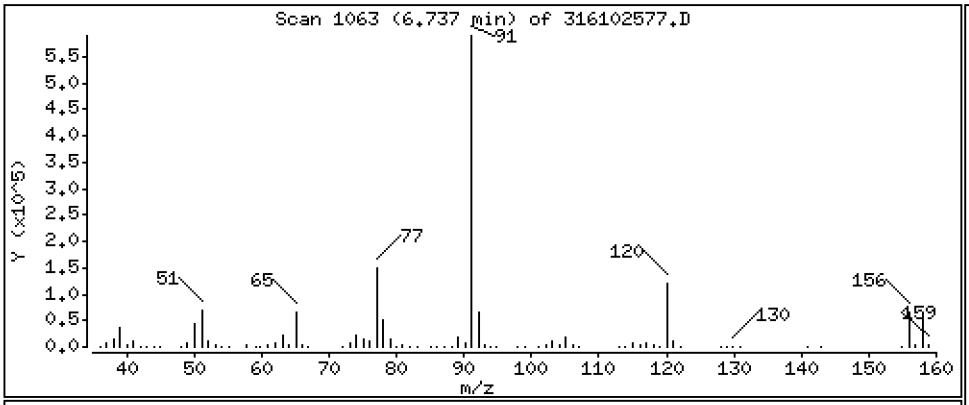
Client ID: 2184163001MS Instrument: ms03.i

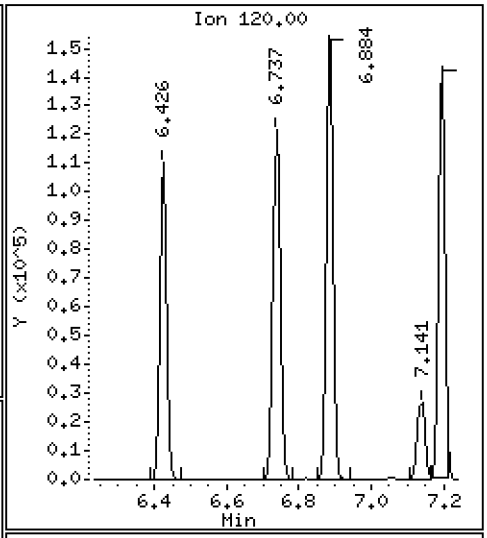
Sample Info: 2429373;;1;3;;MS;1;

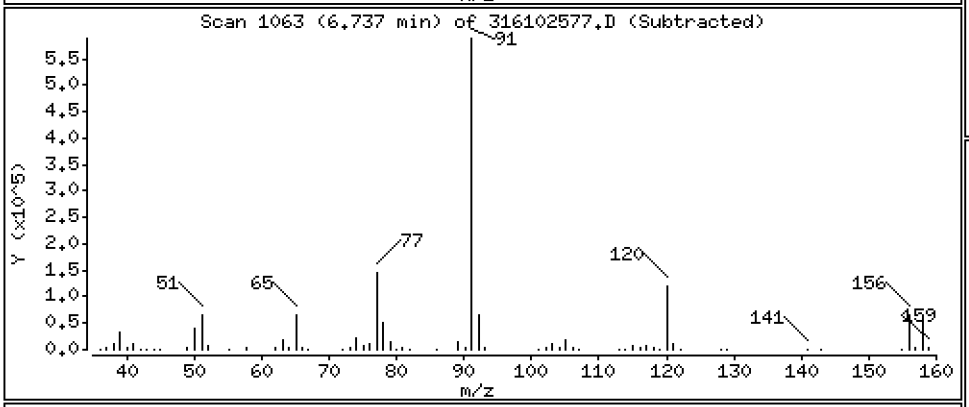
Purge Volume: 5.0 Operator: CJG

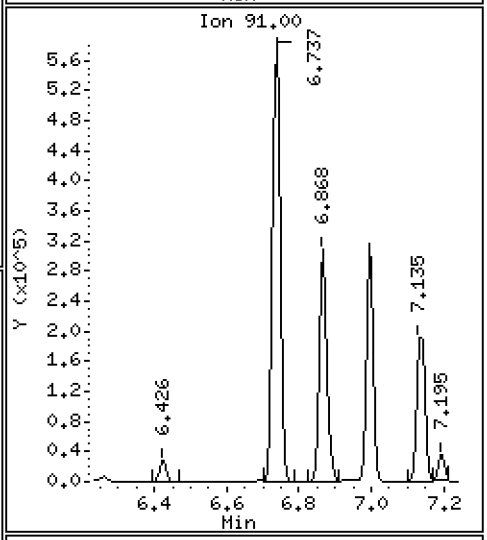
Column phase: DB-VRX Column diameter: 0.25

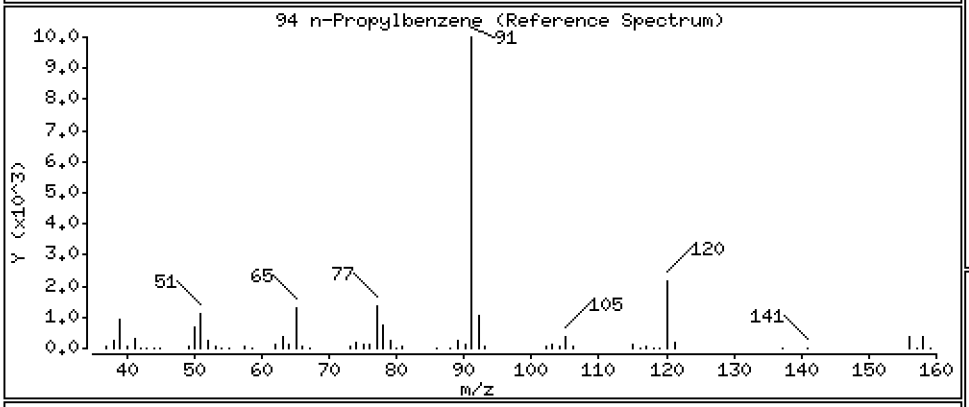
94 n-Propylbenzene Concentration: 21.8116 ug/L

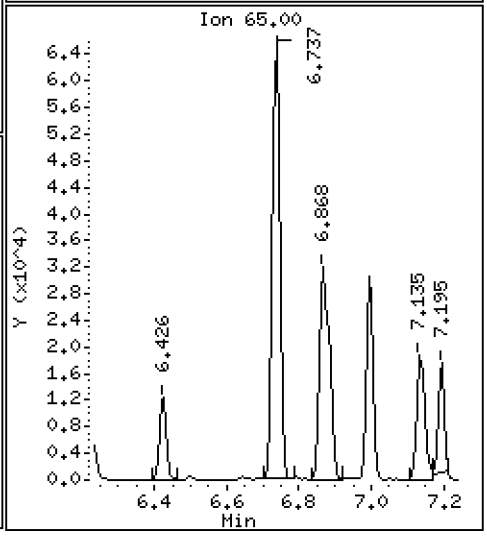


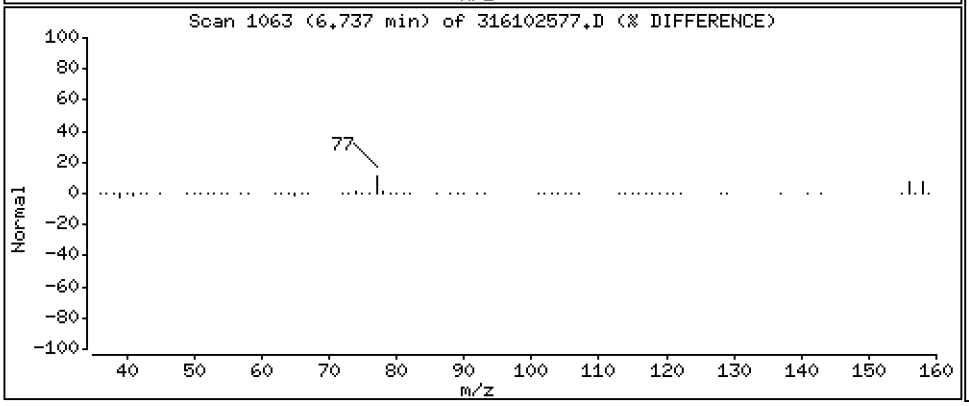












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 100

Date : 26-OCT-2016 07:30

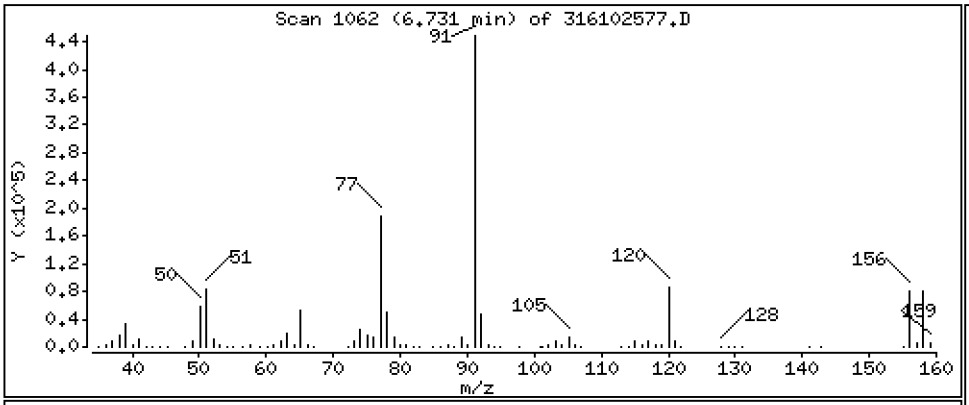
Client ID: 2184163001MS Instrument: ms03.i

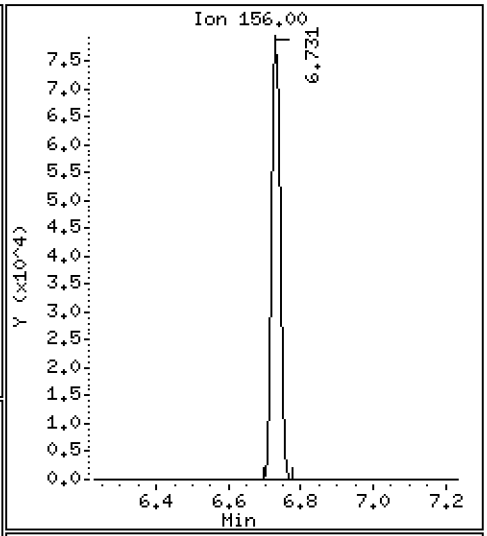
Sample Info: 2429373;;1;3;;MS;1;

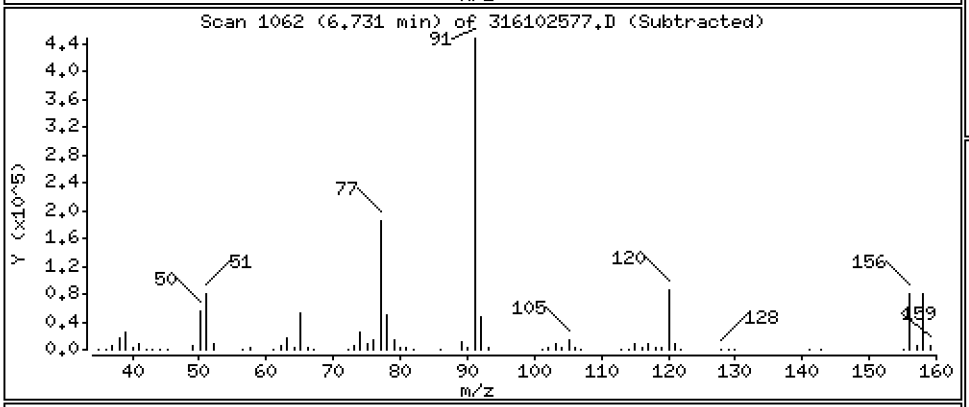
Purge Volume: 5.0 Operator: CJG

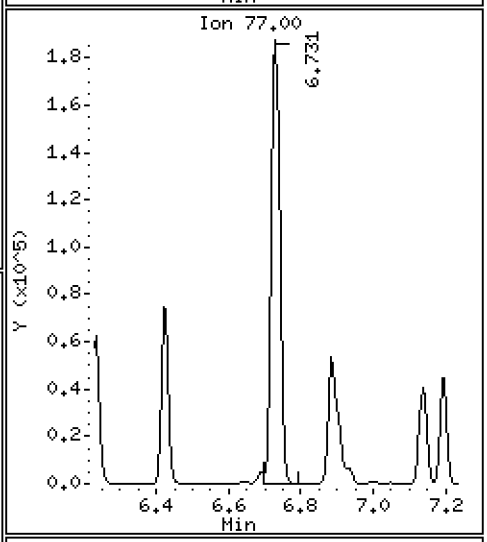
Column phase: DB-VRX Column diameter: 0.25

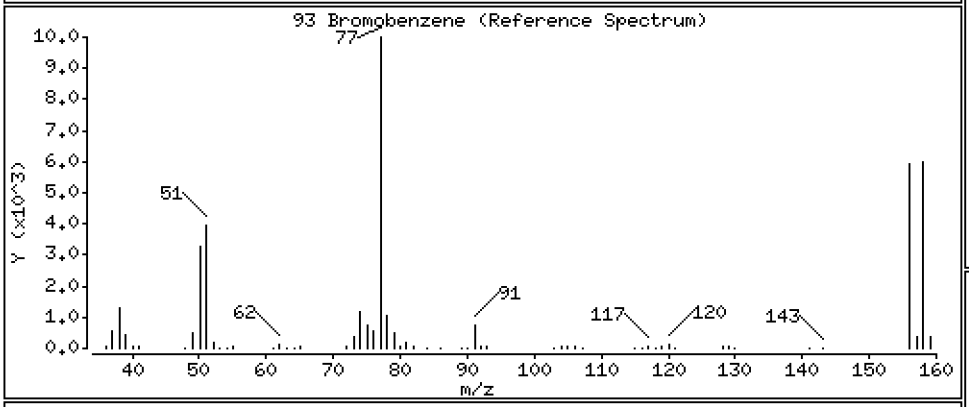
93 Bromobenzene Concentration: 19.5488 ug/L

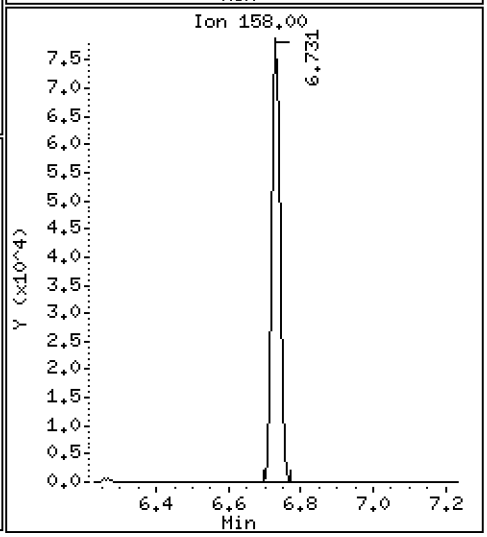


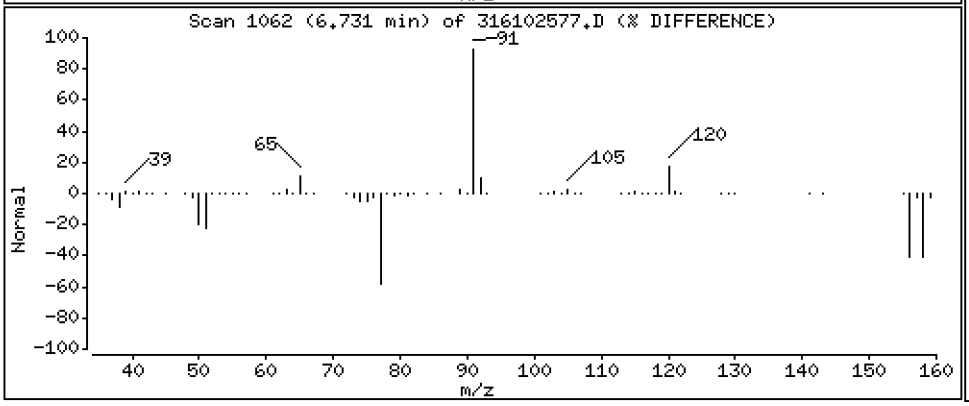












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 101

Date : 26-OCT-2016 07:30

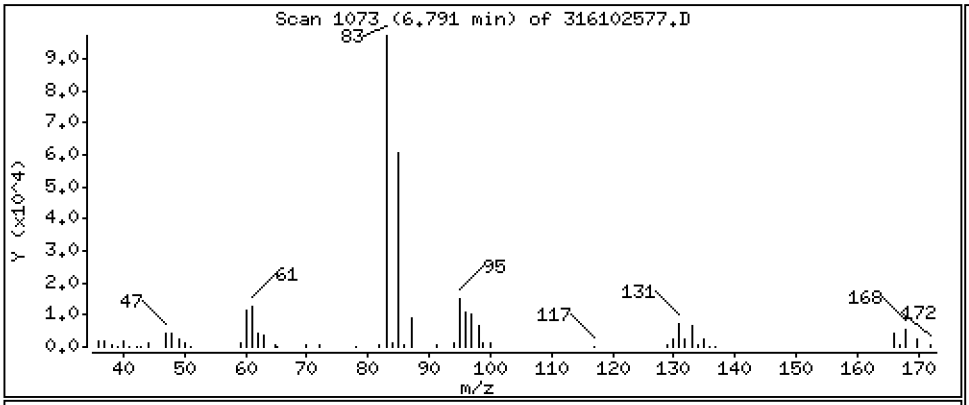
Client ID: 2184163001MS Instrument: ms03.i

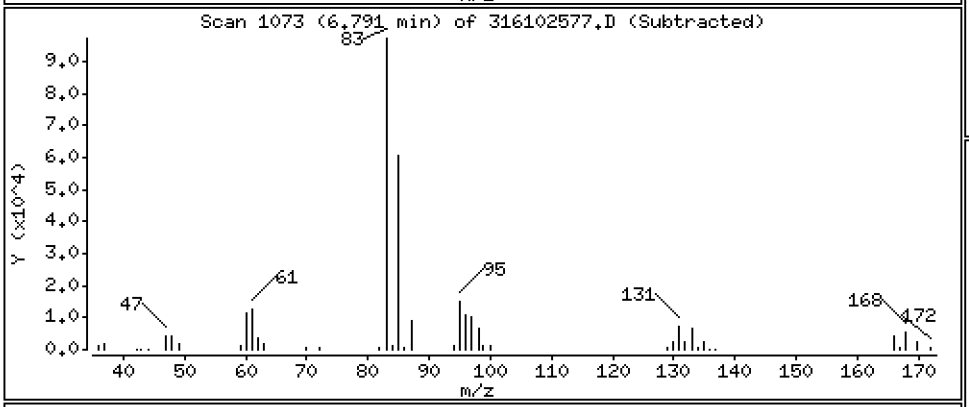
Sample Info: 2429373;;1;3;;MS;1;

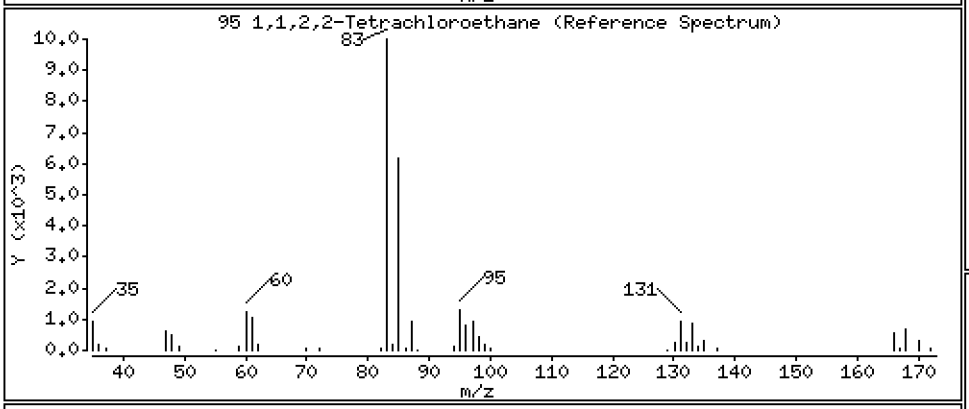
Purge Volume: 5.0 Operator: CJG

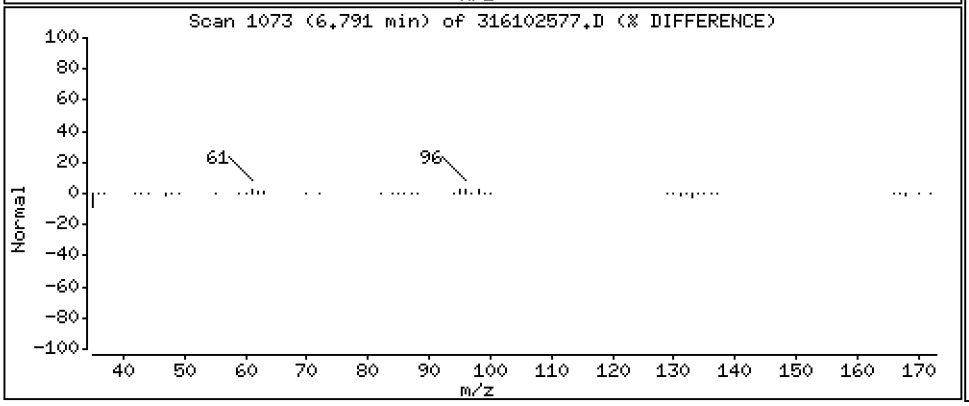
Column phase: DB-VRX Column diameter: 0.25

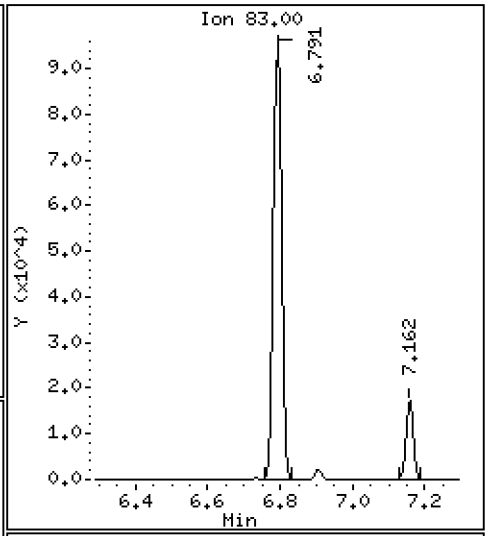
95 1,1,2,2-Tetrachloroethane Concentration: 20.0581 ug/L

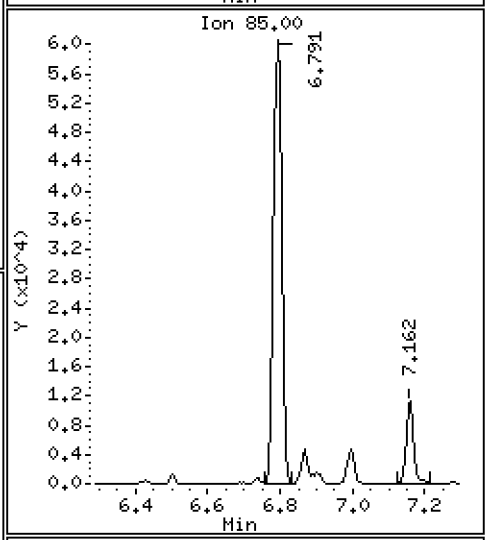


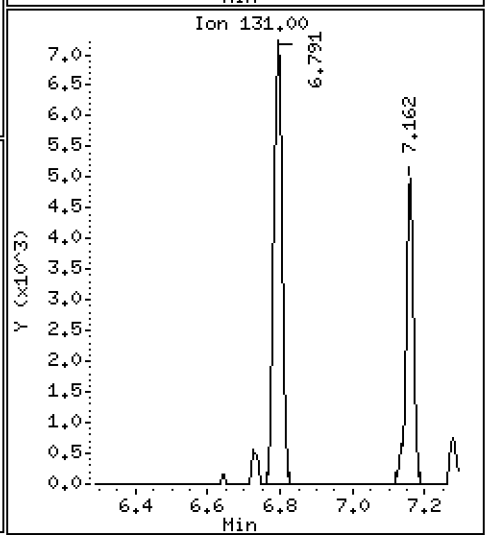












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 102

Date : 26-OCT-2016 07:30

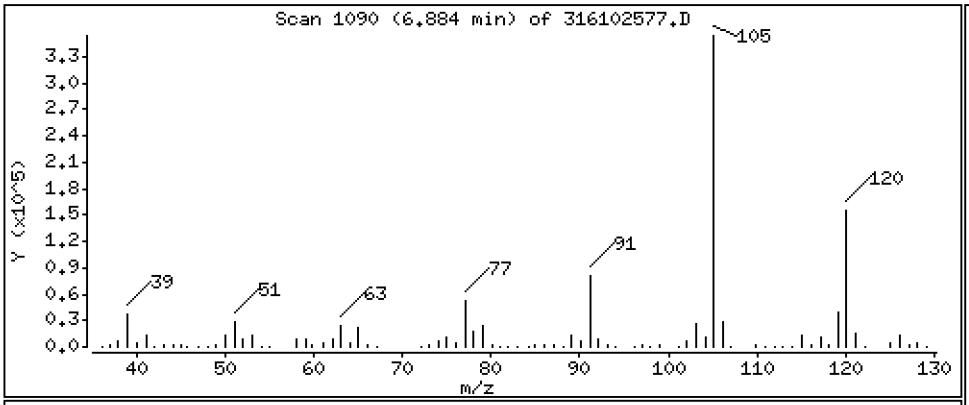
Client ID: 2184163001MS Instrument: ms03.i

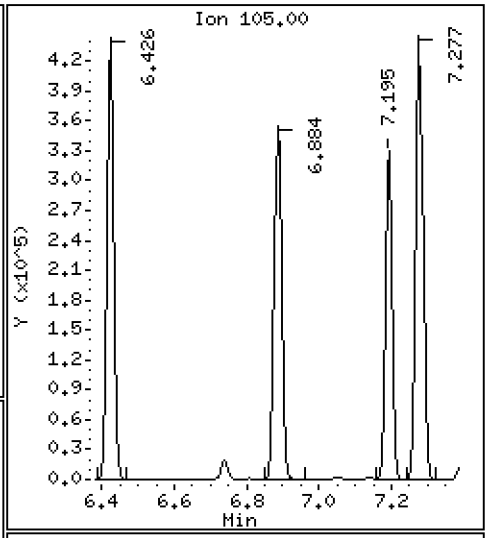
Sample Info: 2429373;;1;3;;MS;1;

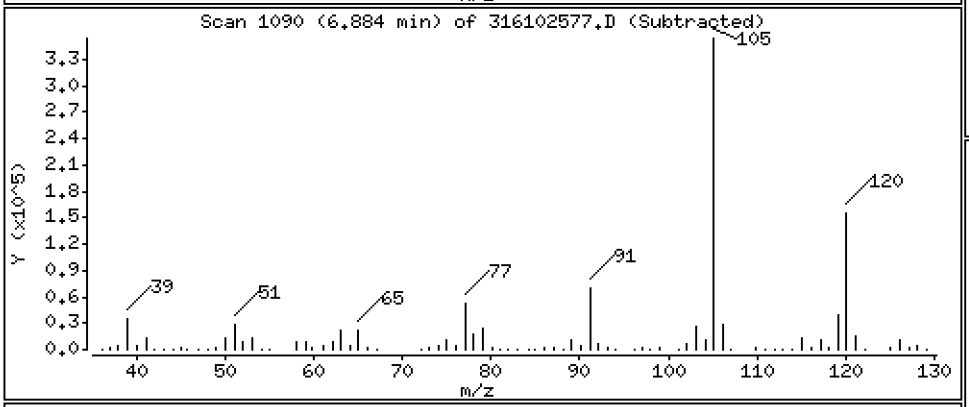
Purge Volume: 5.0 Operator: CJG

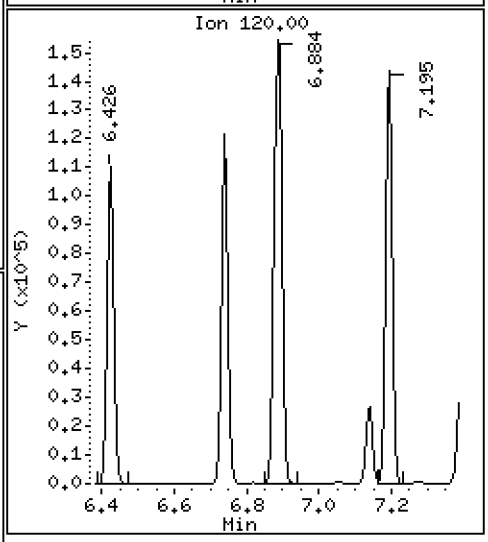
Column phase: DB-VRX Column diameter: 0.25

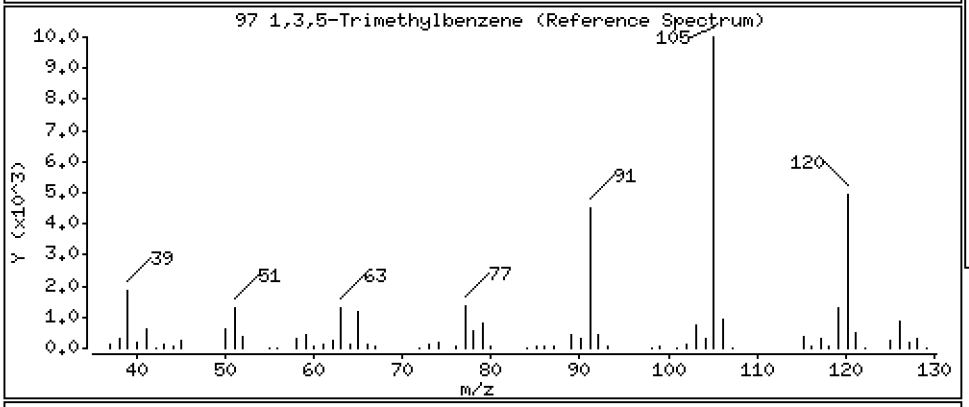
97 1,3,5-Trimethylbenzene Concentration: 22.6390 ug/L

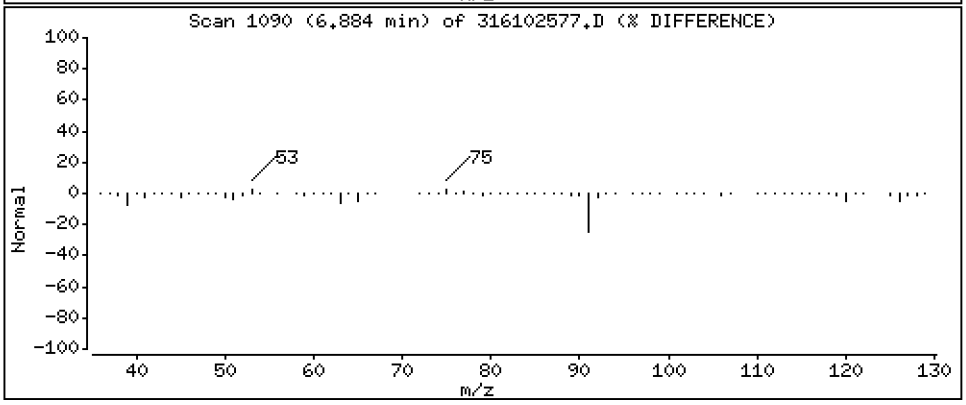












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 103

Date : 26-OCT-2016 07:30

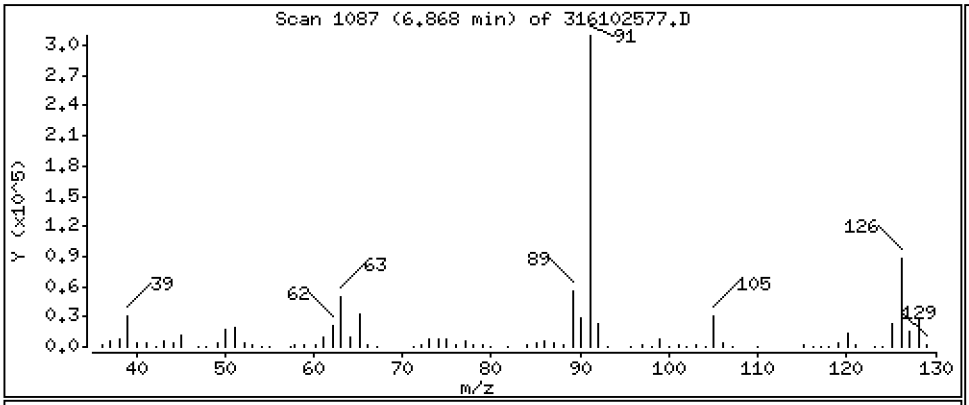
Client ID: 2184163001MS Instrument: ms03.i

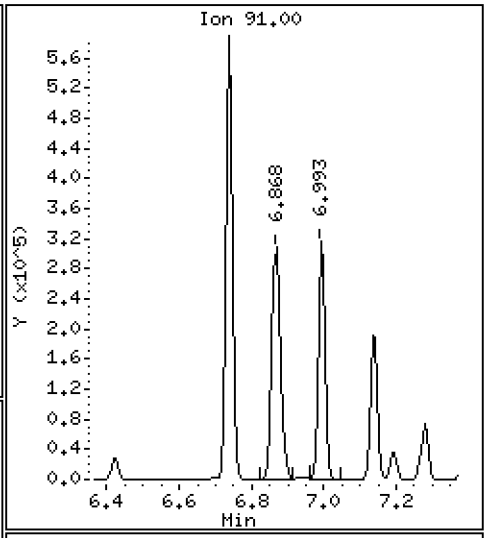
Sample Info: 2429373;;1;3;;MS;1;

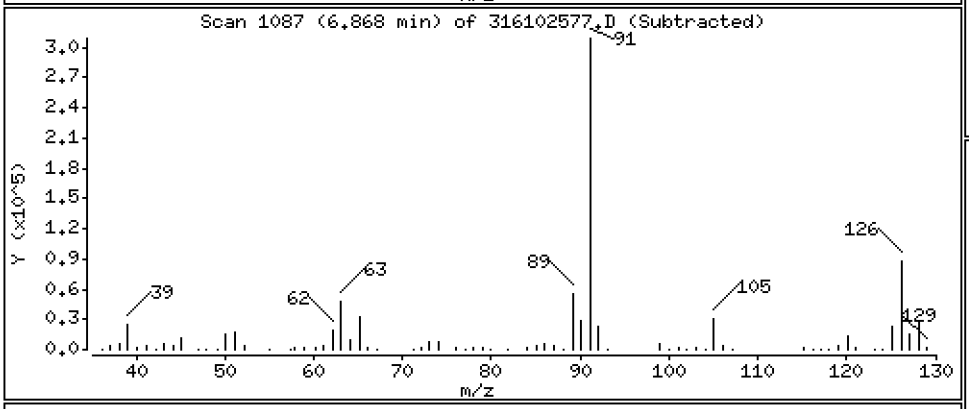
Purge Volume: 5.0 Operator: CJG

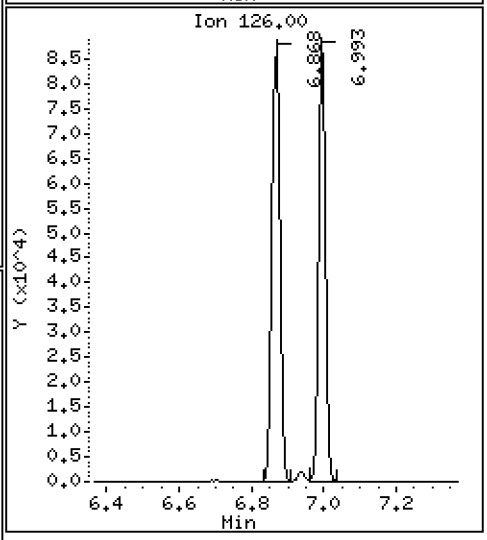
Column phase: DB-VRX Column diameter: 0.25

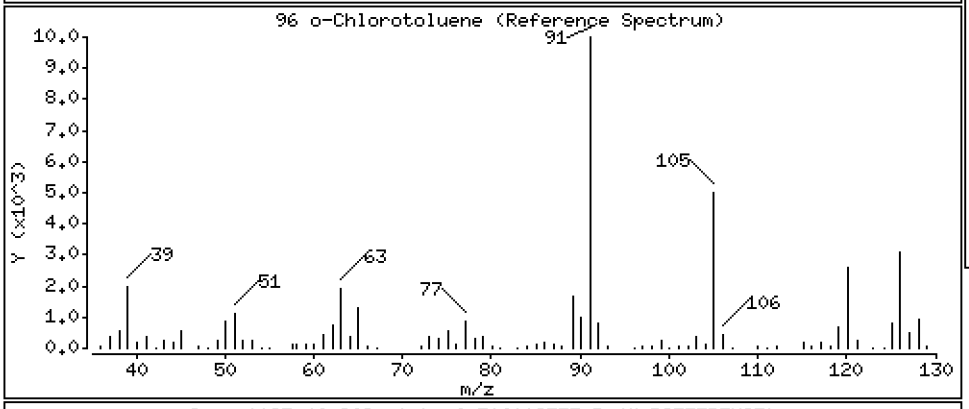
96 o-Chlorotoluene Concentration: 21.3461 ug/L

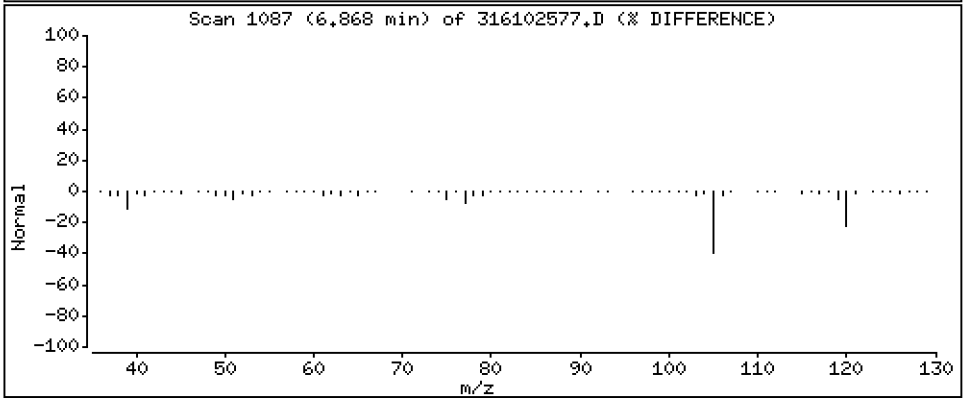












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 104

Date : 26-OCT-2016 07:30

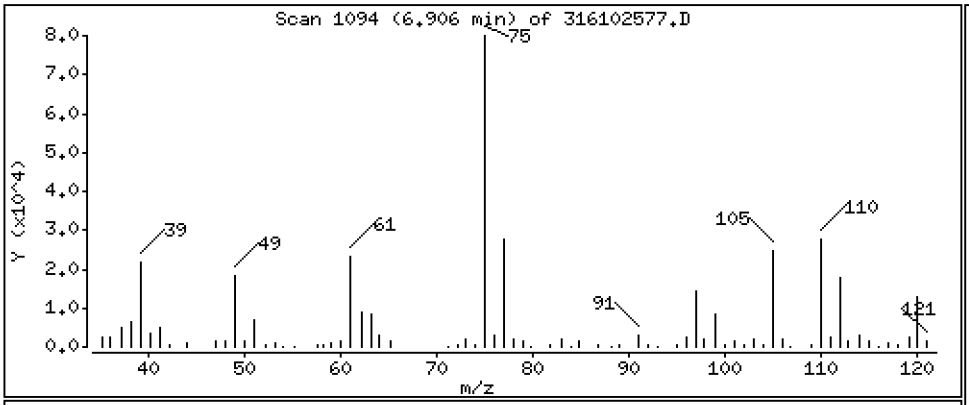
Client ID: 2184163001MS Instrument: ms03.i

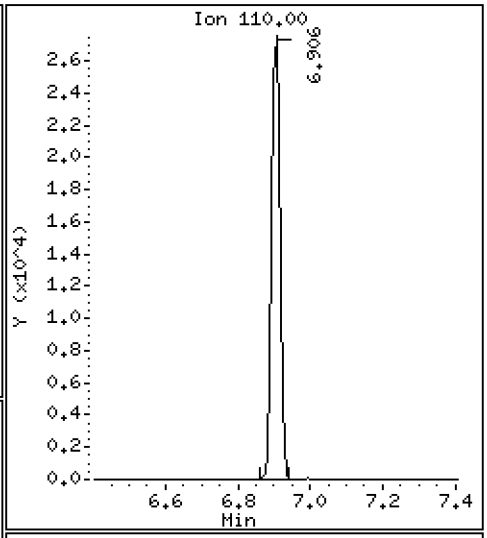
Sample Info: 2429373;;1;3;;MS;1;

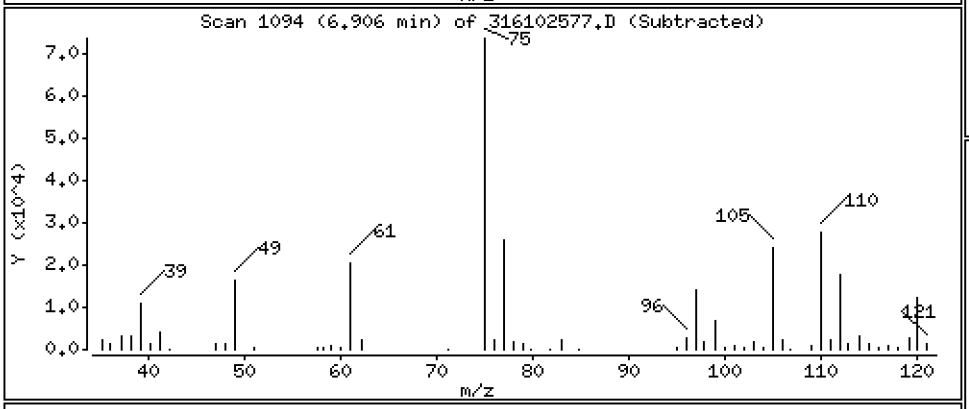
Purge Volume: 5.0 Operator: CJG

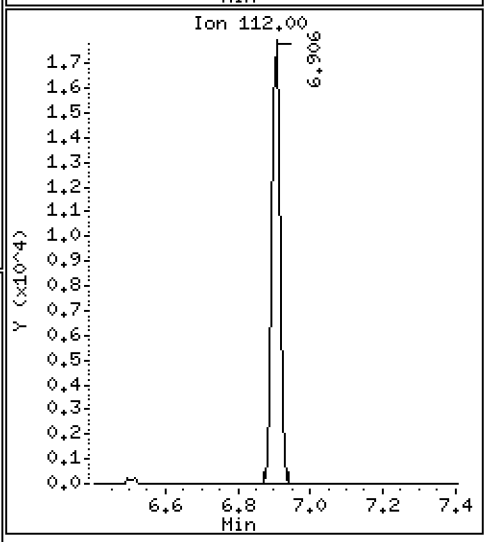
Column phase: DB-VRX Column diameter: 0.25

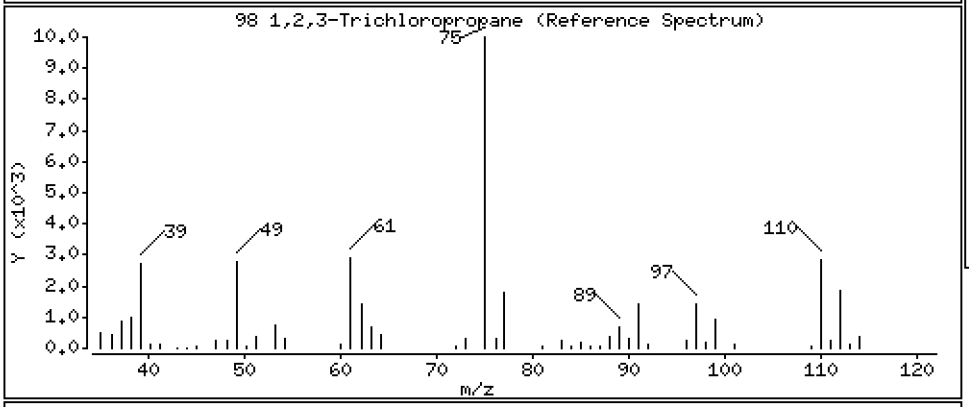
98 1,2,3-Trichloropropane Concentration: 19.7410 ug/L

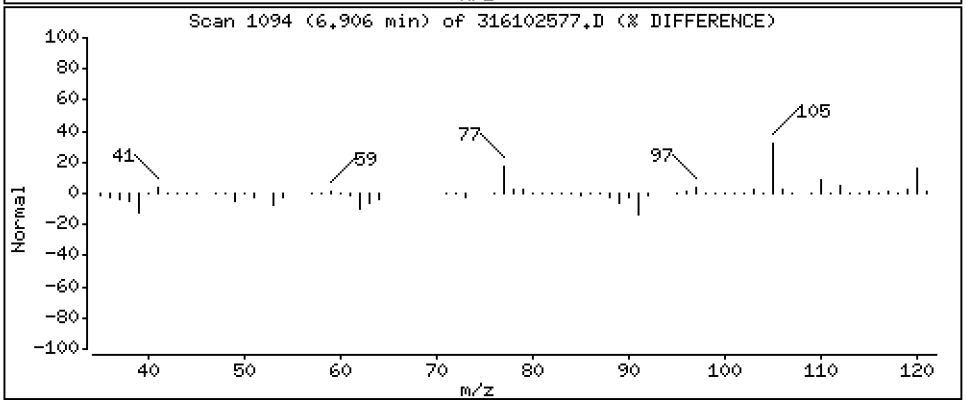












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 105

Date : 26-OCT-2016 07:30

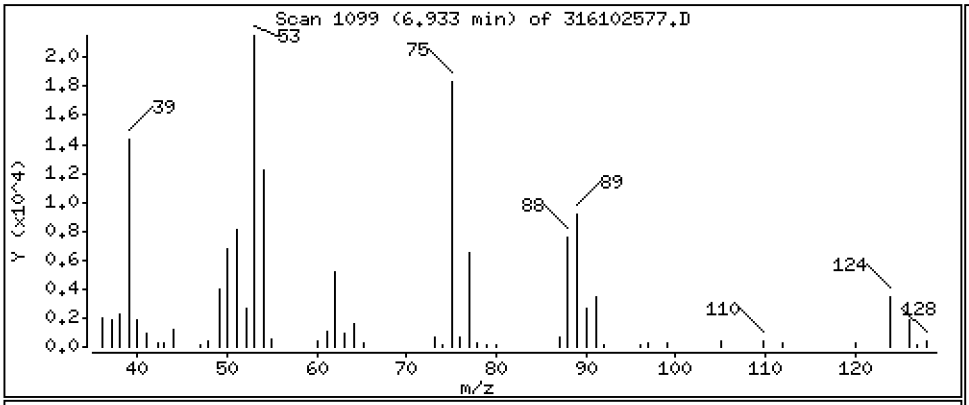
Client ID: 2184163001MS Instrument: ms03.i

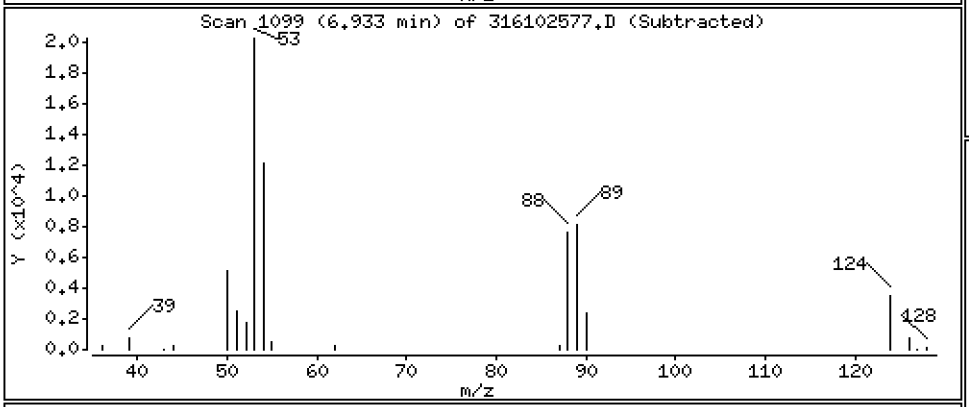
Sample Info: 2429373:1:3::MS:1:

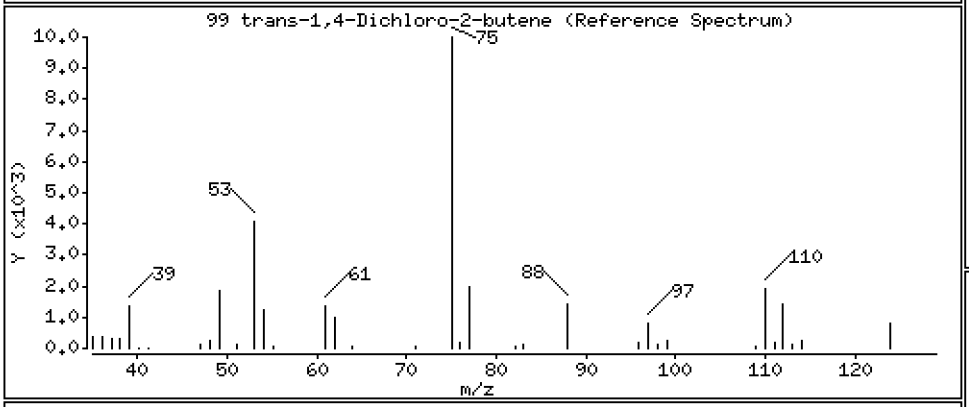
Purge Volume: 5.0 Operator: CJG

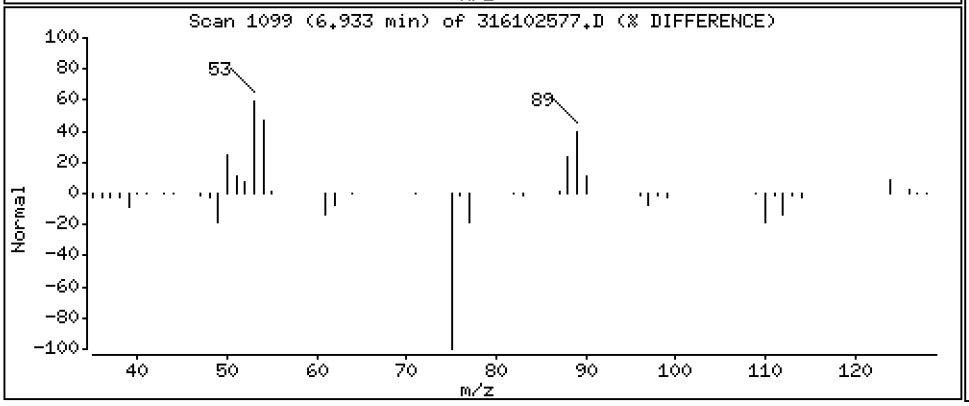
Column phase: DB-VRX Column diameter: 0.25

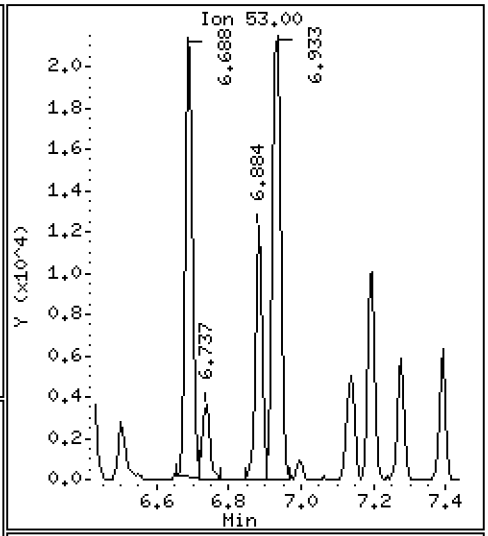
99 trans-1,4-Dichloro-2-butene Concentration: 18.8802 ug/L

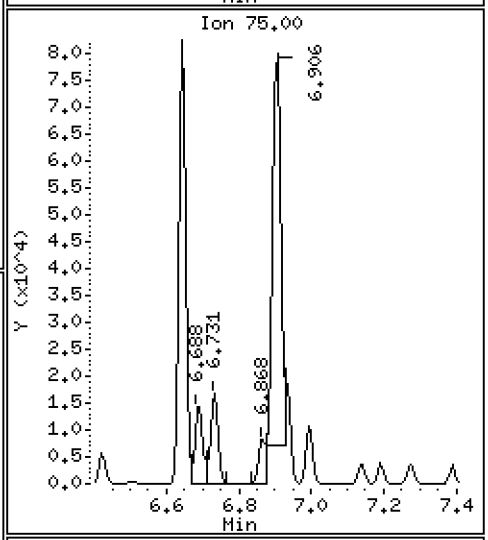


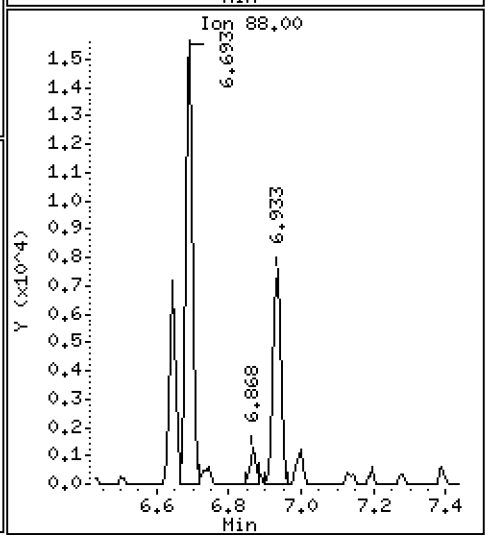












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 106

Date : 26-OCT-2016 07:30

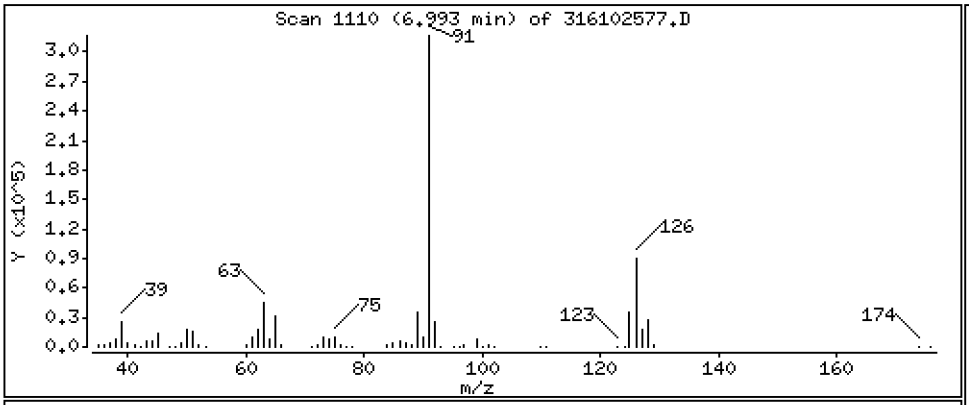
Client ID: 2184163001MS Instrument: ms03.i

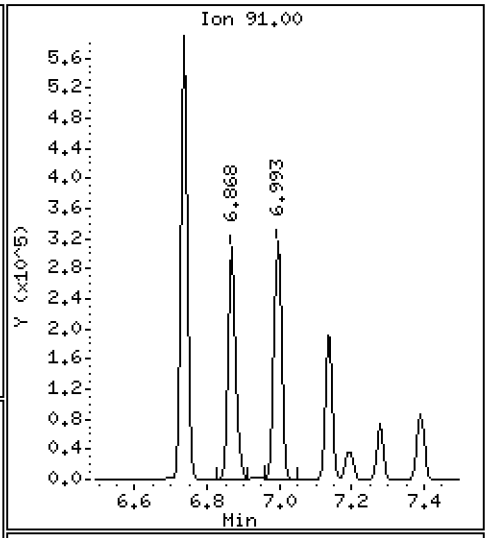
Sample Info: 2429373;;1;3;;MS;1;

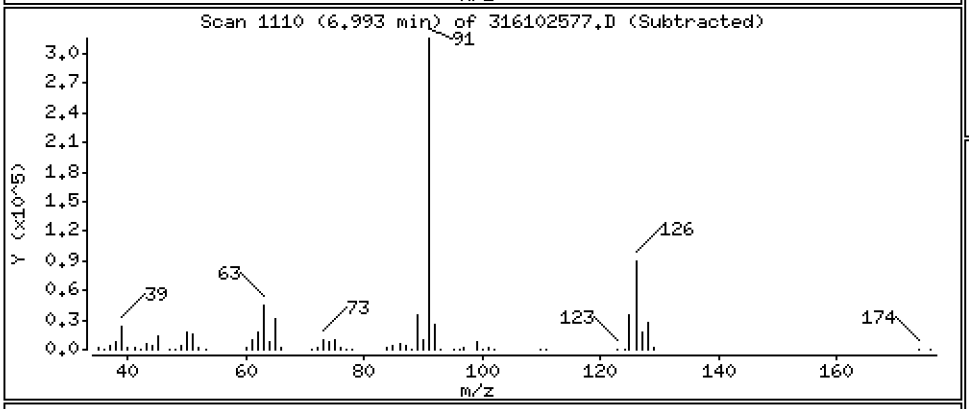
Purge Volume: 5.0 Operator: CJG

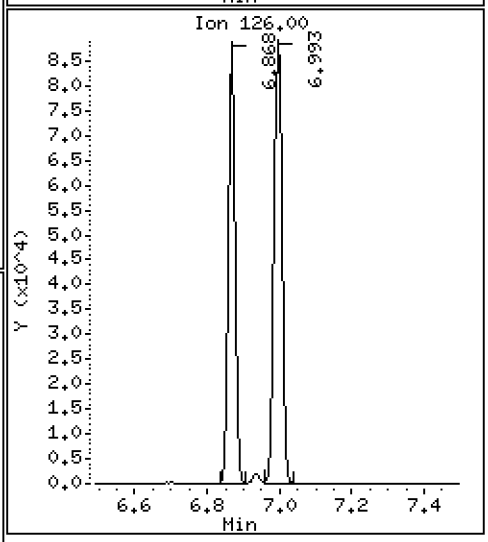
Column phase: DB-VRX Column diameter: 0.25

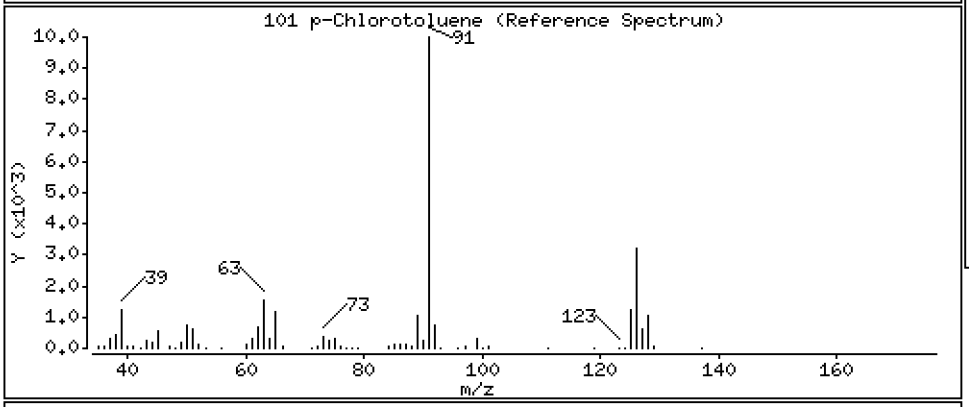
101 p-Chlorotoluene Concentration: 21.0502 ug/L

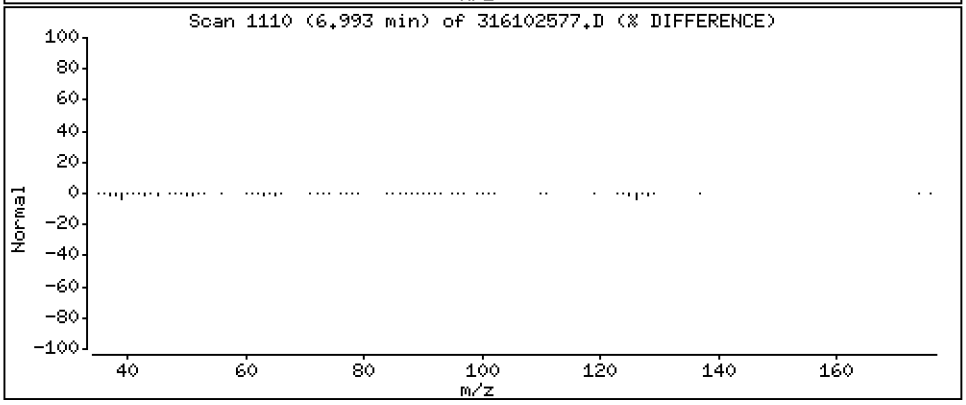












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 107

Date : 26-OCT-2016 07:30

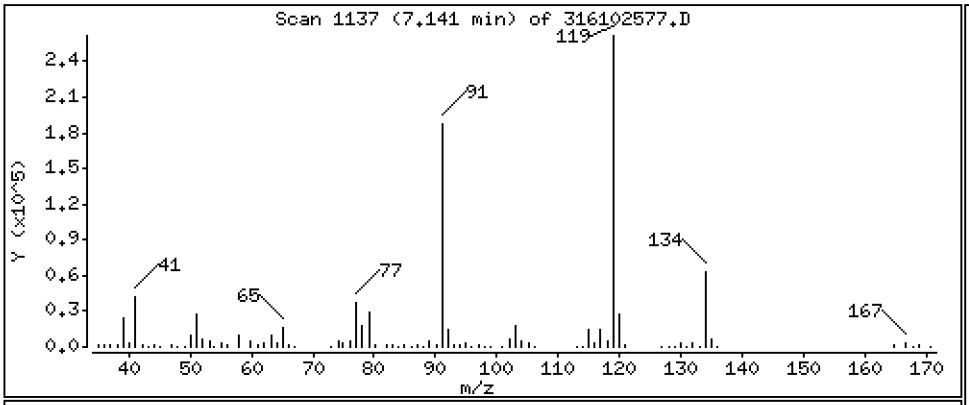
Client ID: 2184163001MS Instrument: ms03.i

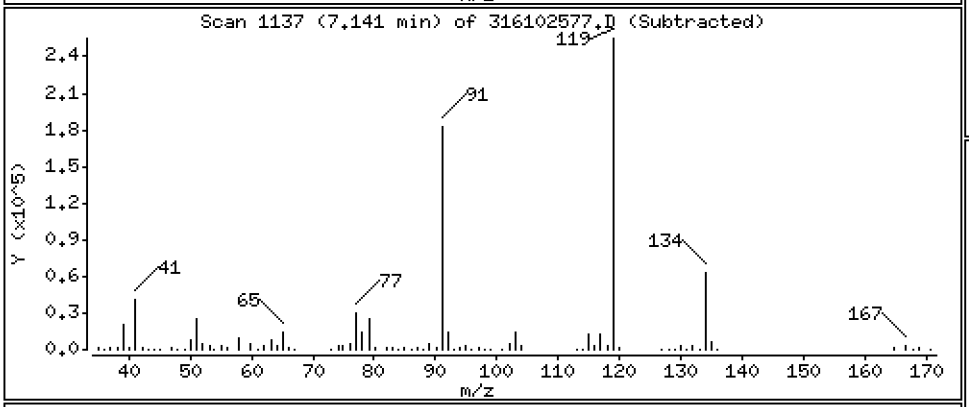
Sample Info: 2429373;;1;3;;MS;1;

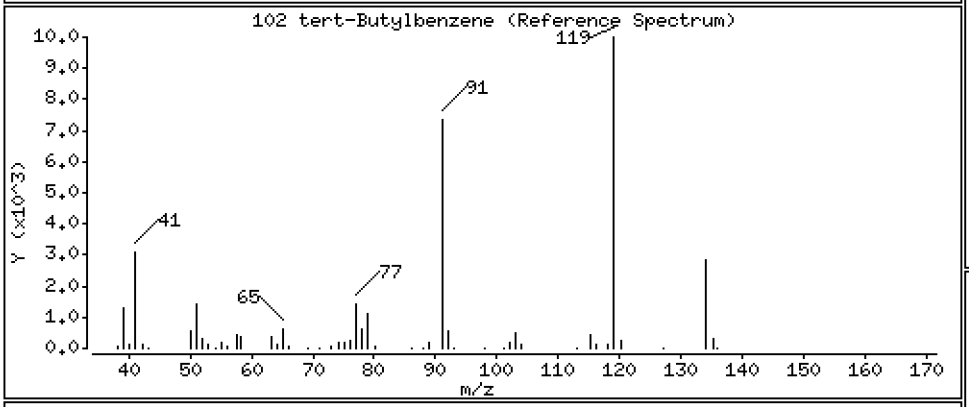
Purge Volume: 5.0 Operator: CJG

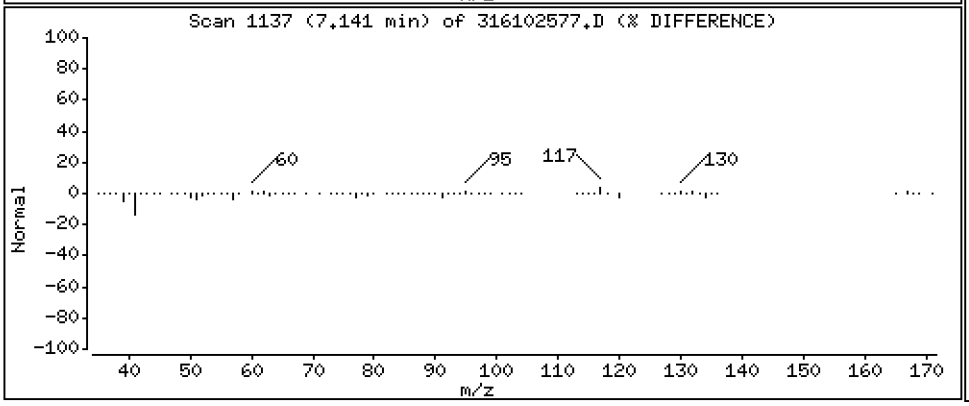
Column phase: DB-VRX Column diameter: 0.25

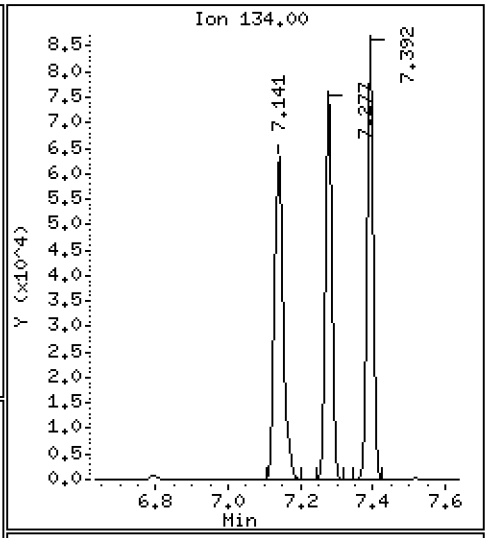
102 tert-Butylbenzene Concentration: 21.0707 ug/L

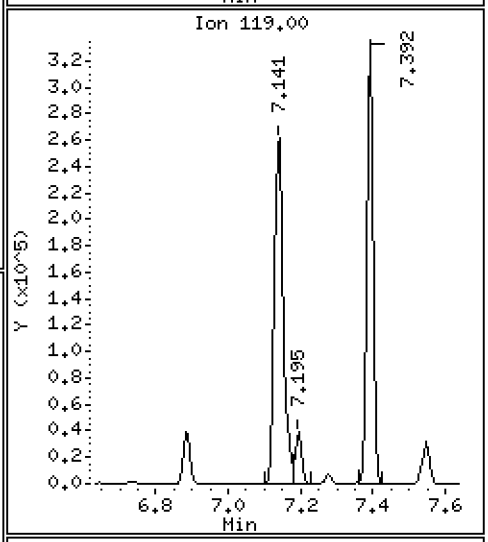


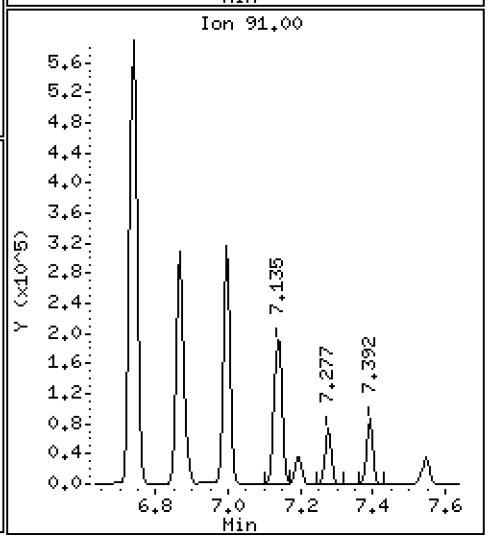












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 108

Date : 26-OCT-2016 07:30

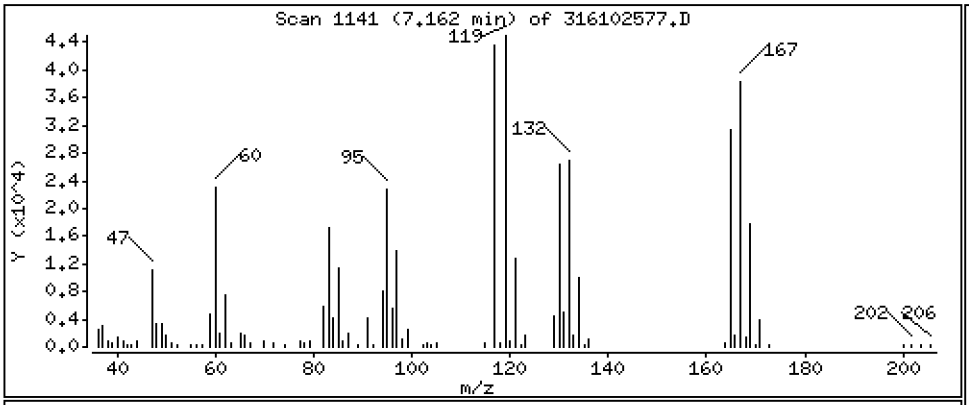
Client ID: 2184163001MS Instrument: ms03.i

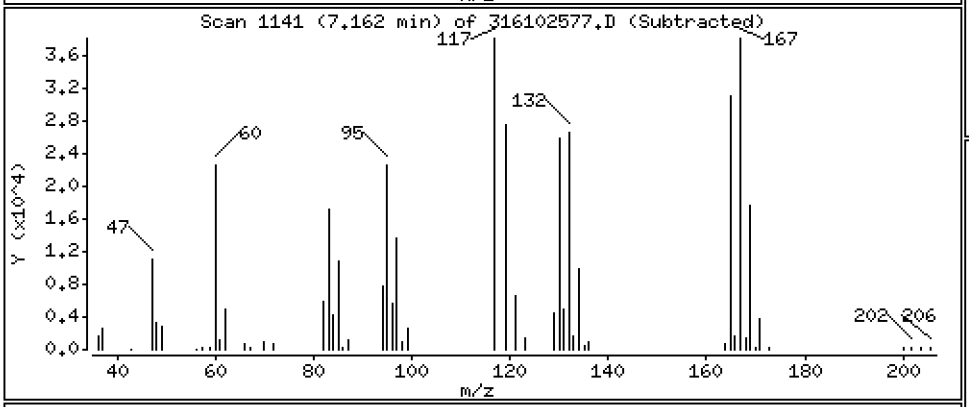
Sample Info: 2429373:1:3::MS:1:

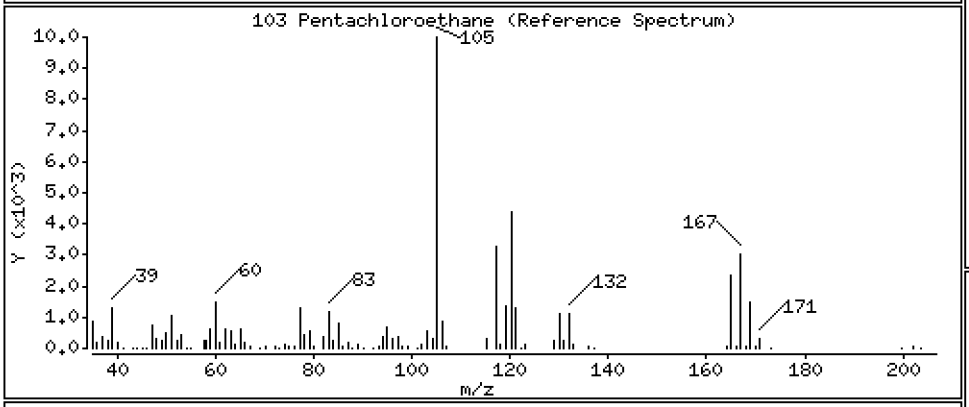
Purge Volume: 5.0 Operator: CJG

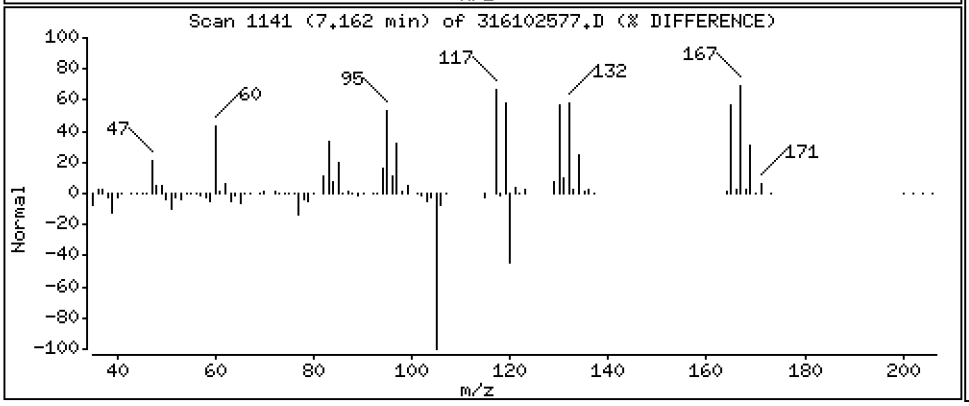
Column phase: DB-VRX Column diameter: 0.25

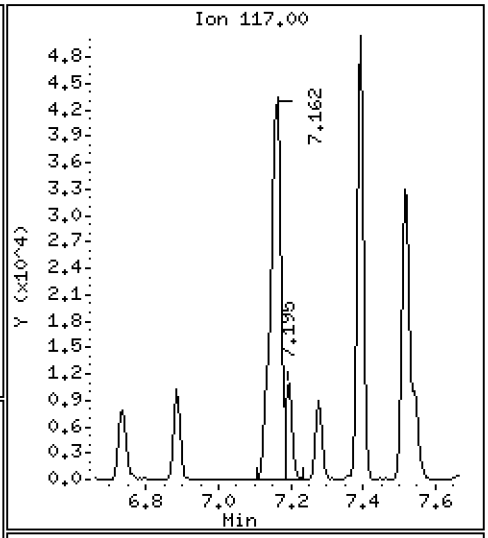
103 Pentachloroethane Concentration: 20.7136 ug/L

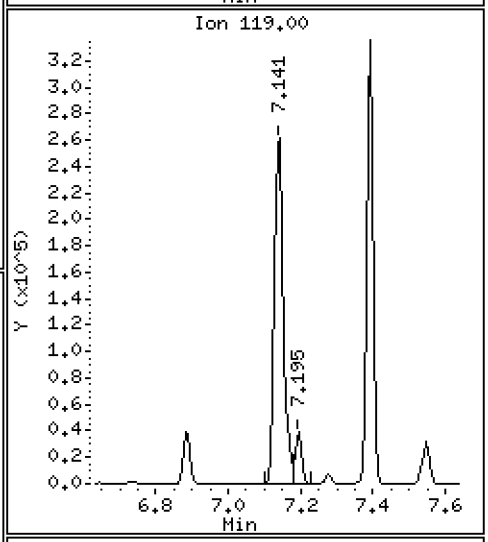


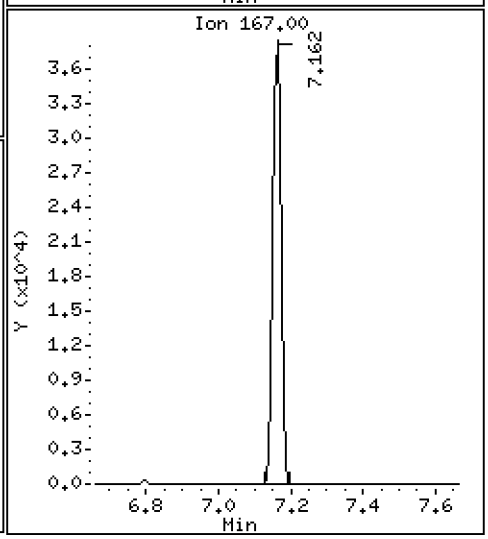












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 109

Date : 26-OCT-2016 07:30

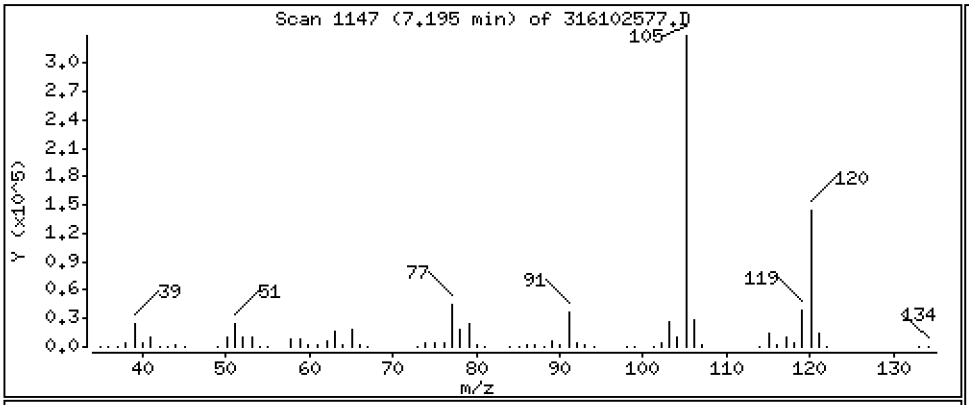
Client ID: 2184163001MS Instrument: ms03.i

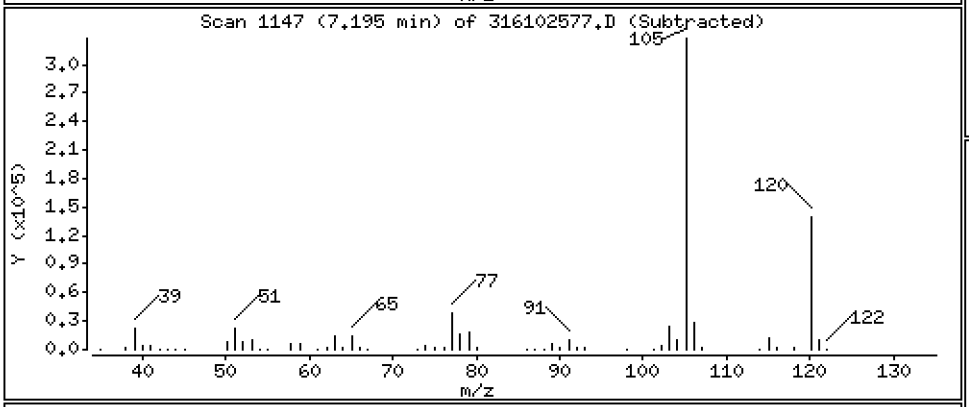
Sample Info: 2429373;;1;3;;MS;1;

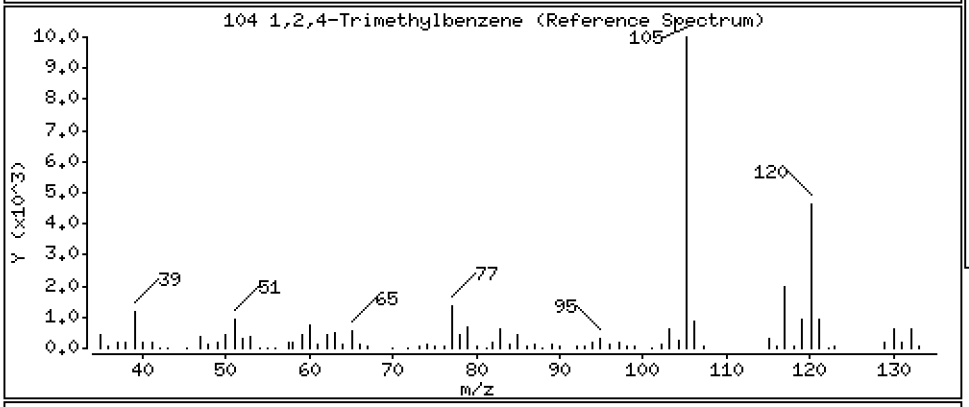
Purge Volume: 5.0 Operator: CJG

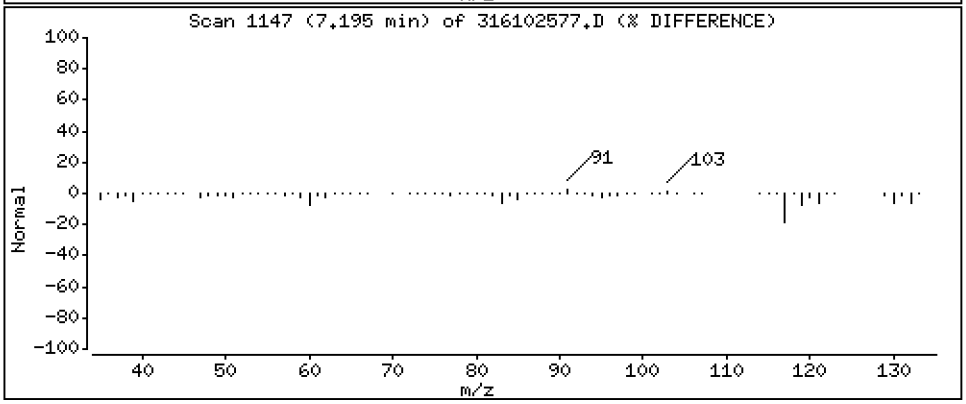
Column phase: DB-VRX Column diameter: 0.25

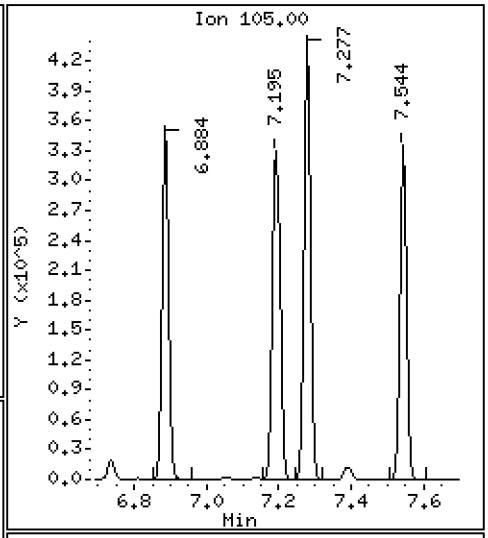
104 1,2,4-Trimethylbenzene Concentration: 22.0032 ug/L

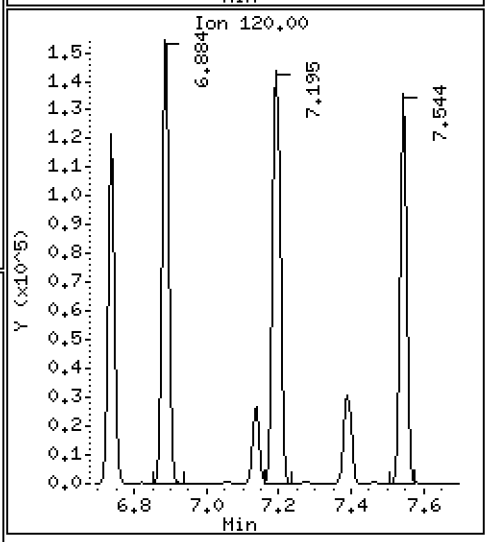












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 110

Date : 26-OCT-2016 07:30

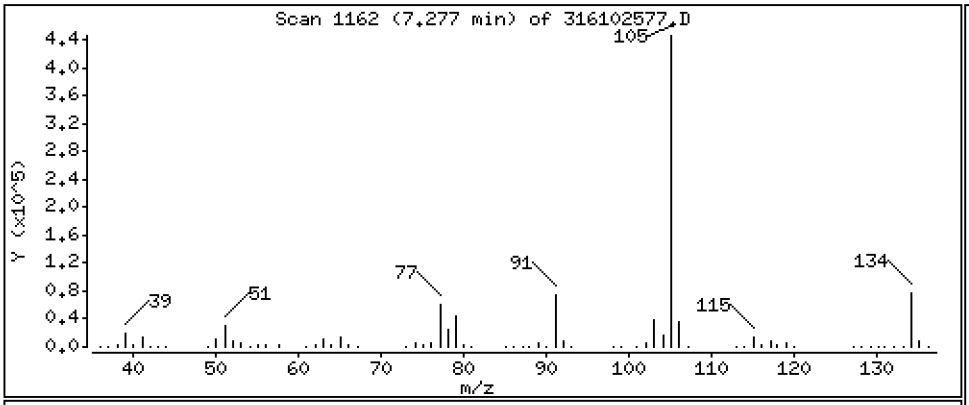
Client ID: 2184163001MS Instrument: ms03.i

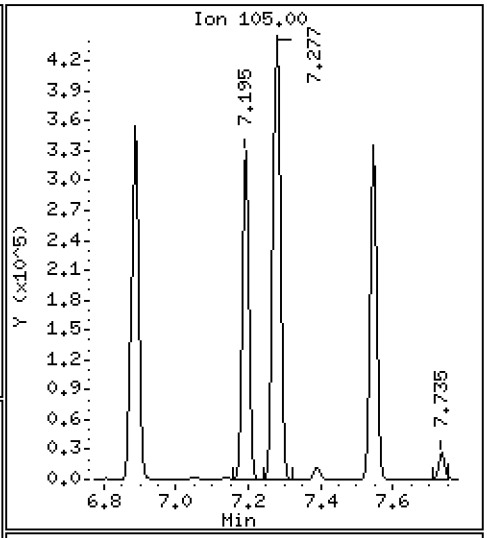
Sample Info: 2429373;;1;3;;MS;1;

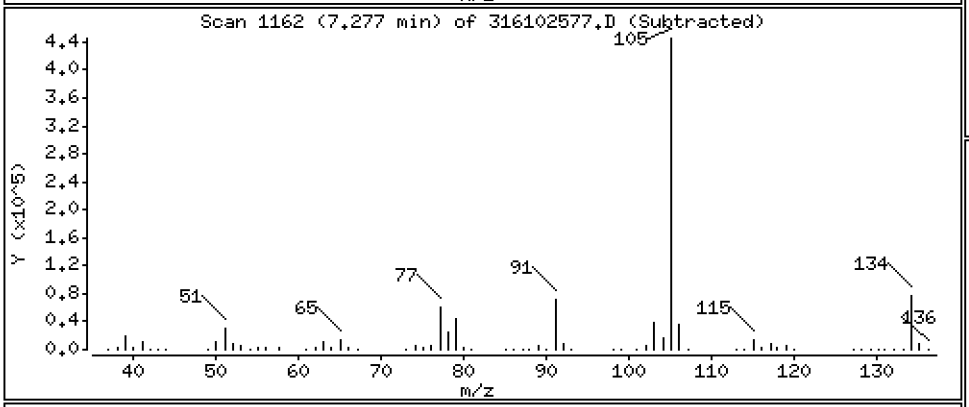
Purge Volume: 5.0 Operator: CJG

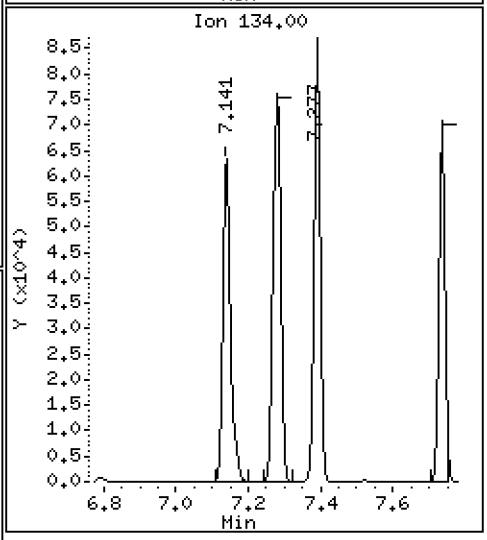
Column phase: DB-VRX Column diameter: 0.25

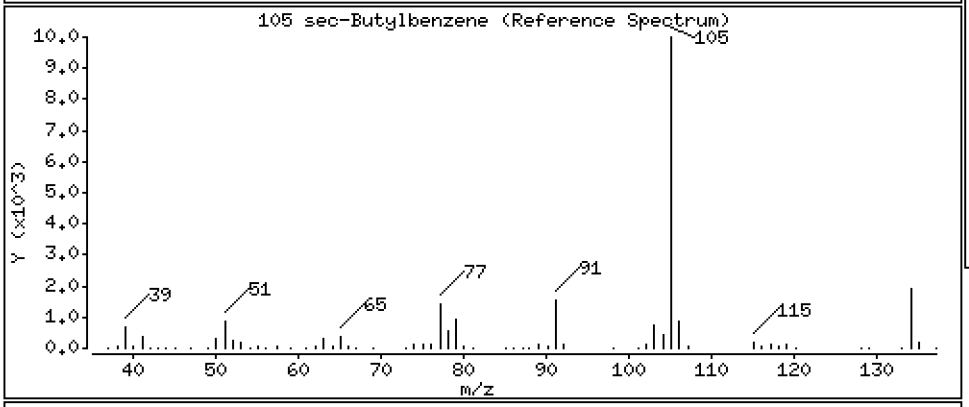
105 sec-Butylbenzene Concentration: 22.2798 ug/L

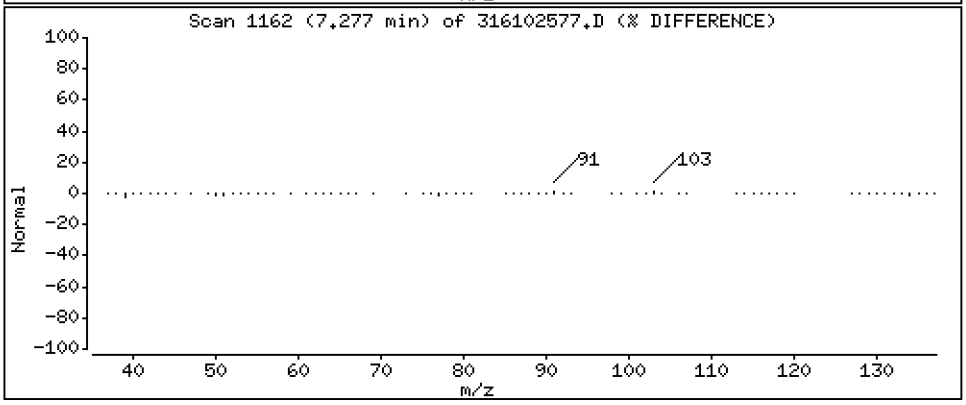












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 111

Date : 26-OCT-2016 07:30

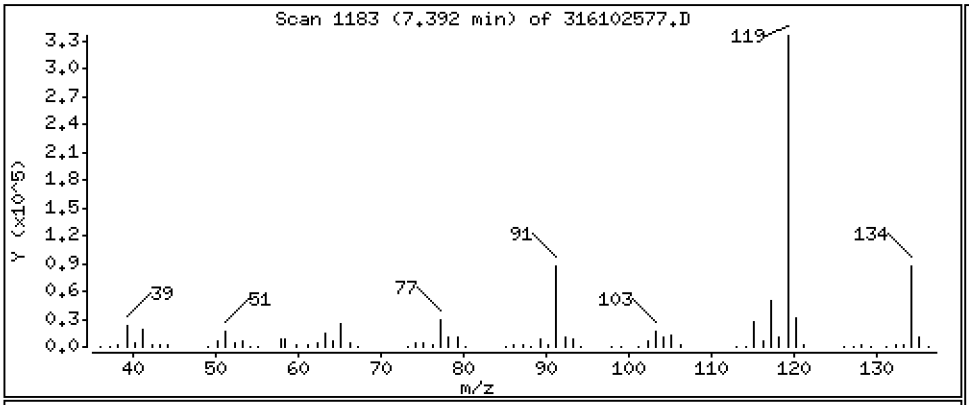
Client ID: 2184163001MS Instrument: ms03.i

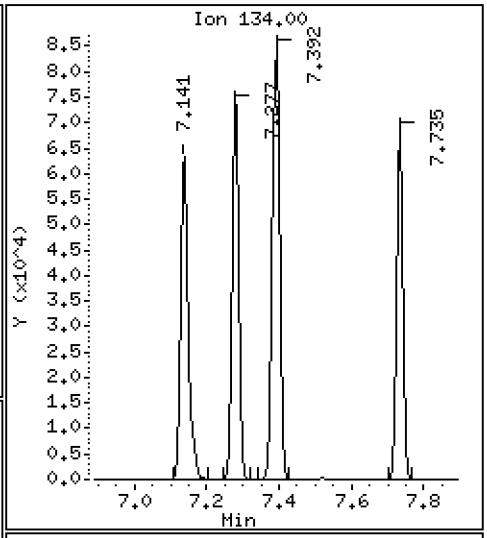
Sample Info: 2429373;;1;3;;MS;1;

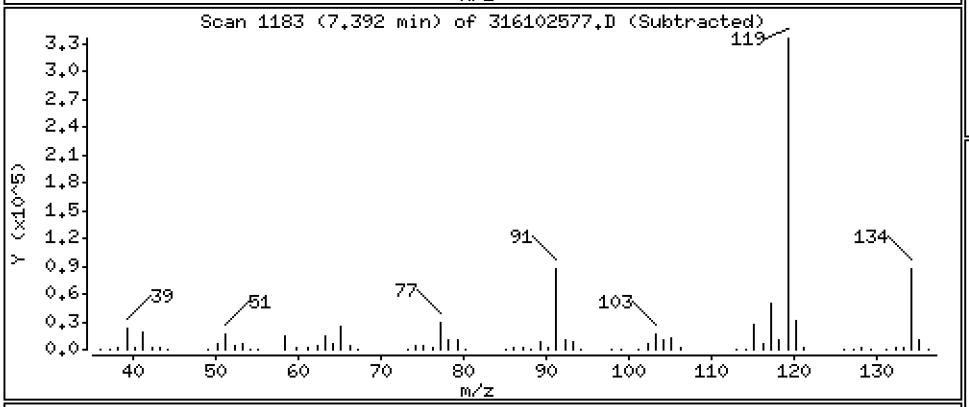
Purge Volume: 5.0 Operator: CJG

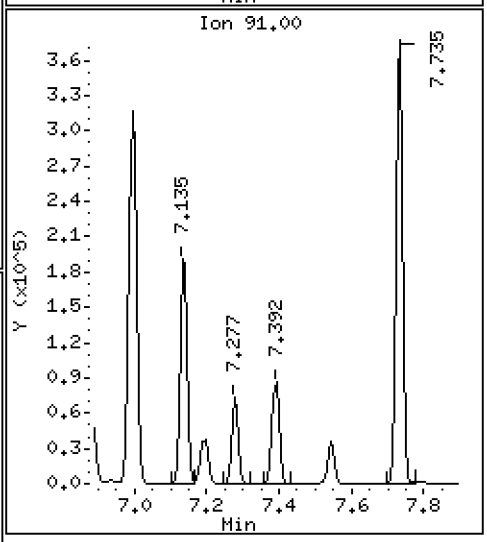
Column phase: DB-VRX Column diameter: 0.25

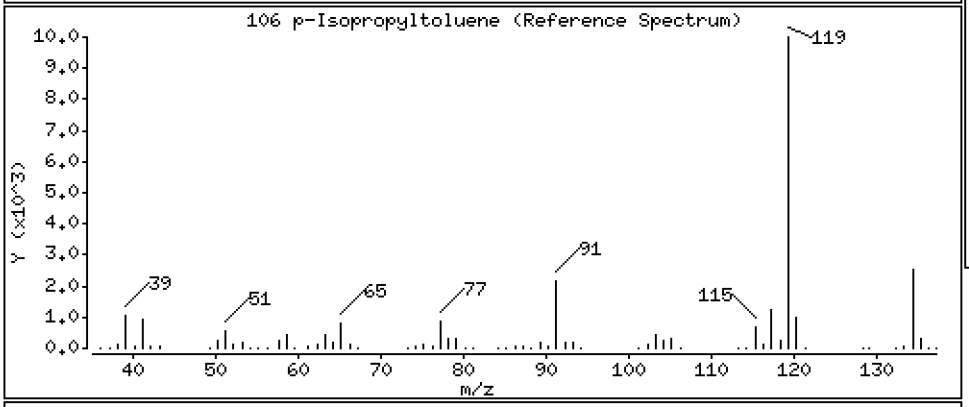
106 p-Isopropyltoluene Concentration: 21.6982 ug/L

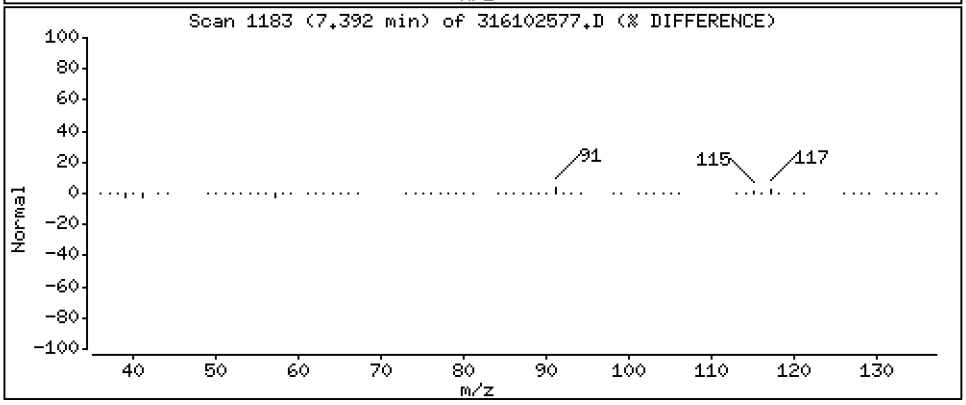












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 112

Date : 26-OCT-2016 07:30

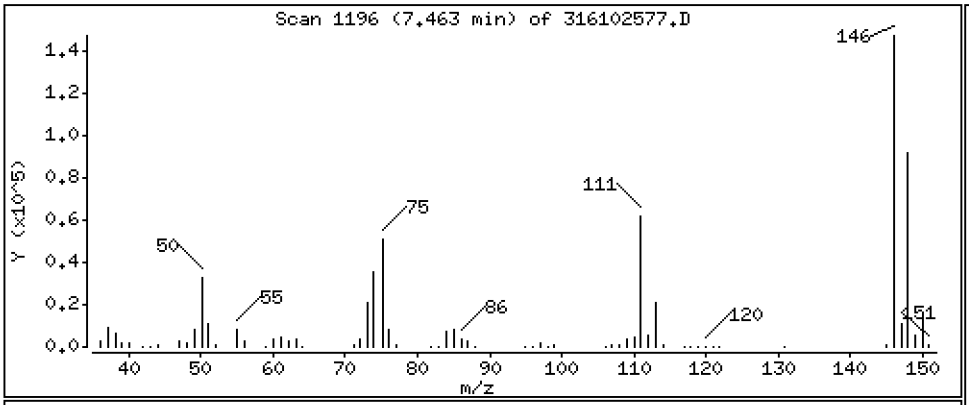
Client ID: 2184163001MS Instrument: ms03.i

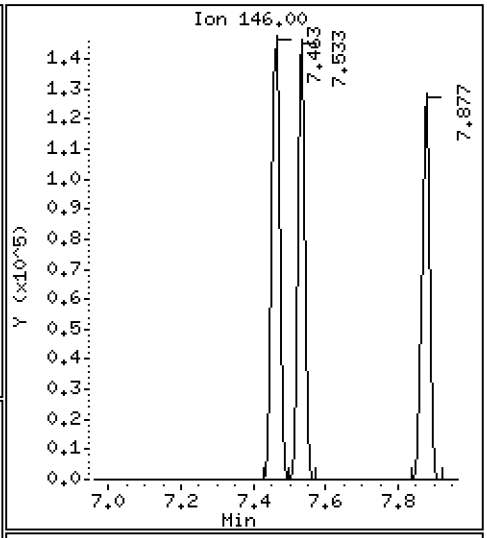
Sample Info: 2429373;;1;3;;MS;1;

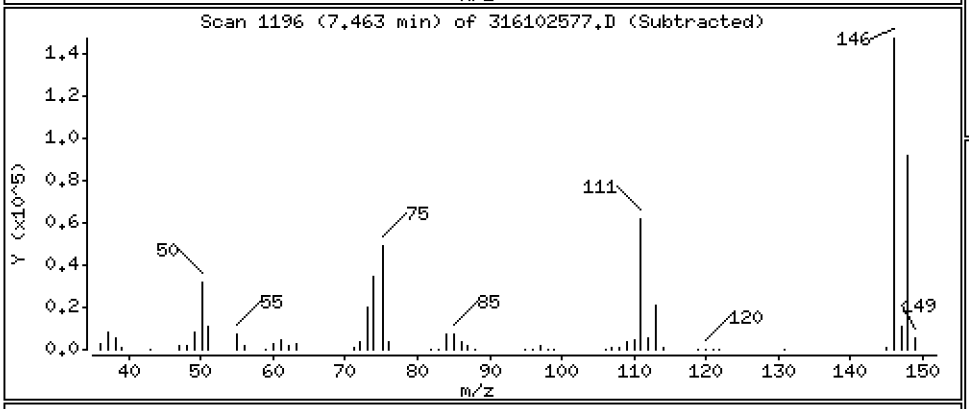
Purge Volume: 5.0 Operator: CJG

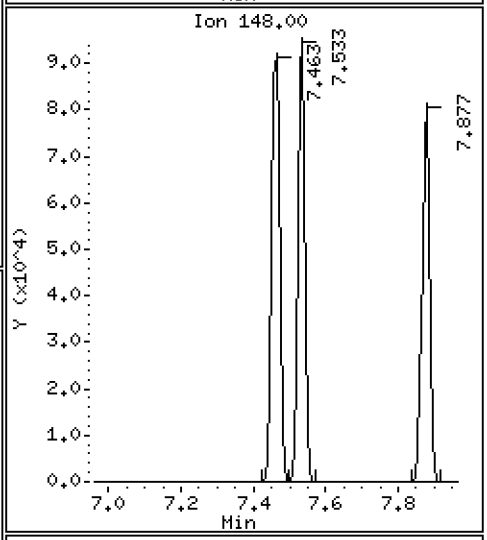
Column phase: DB-VRX Column diameter: 0.25

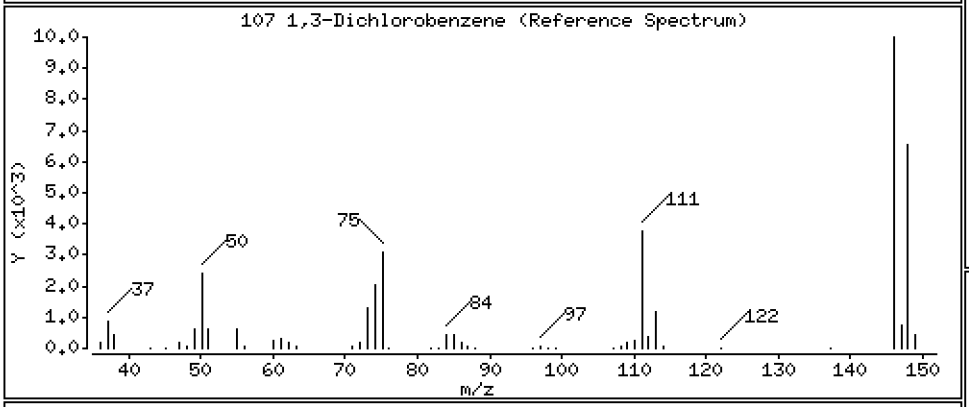
107 1,3-Dichlorobenzene Concentration: 21.0439 ug/L

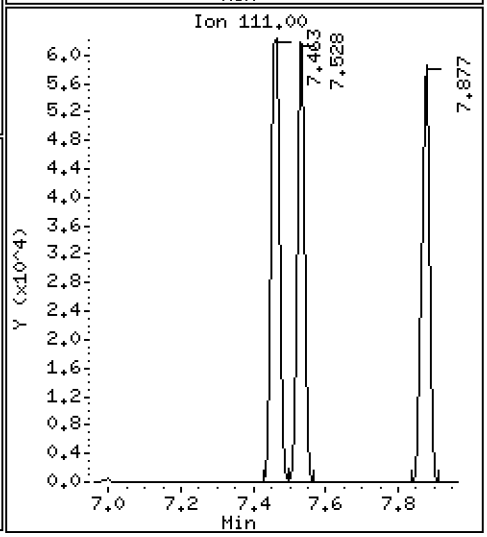


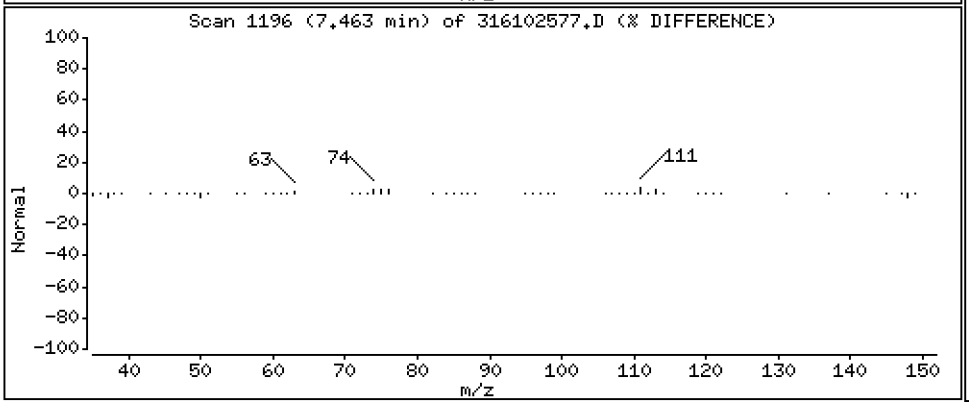












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 113

Date : 26-OCT-2016 07:30

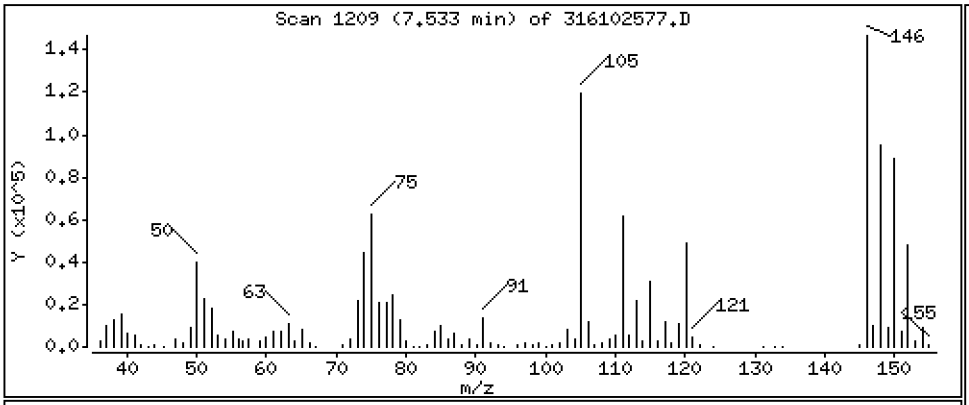
Client ID: 2184163001MS Instrument: ms03.i

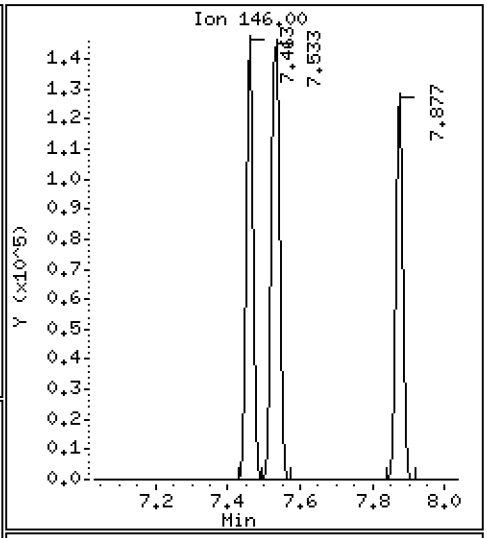
Sample Info: 2429373;;1;3;;MS;1;

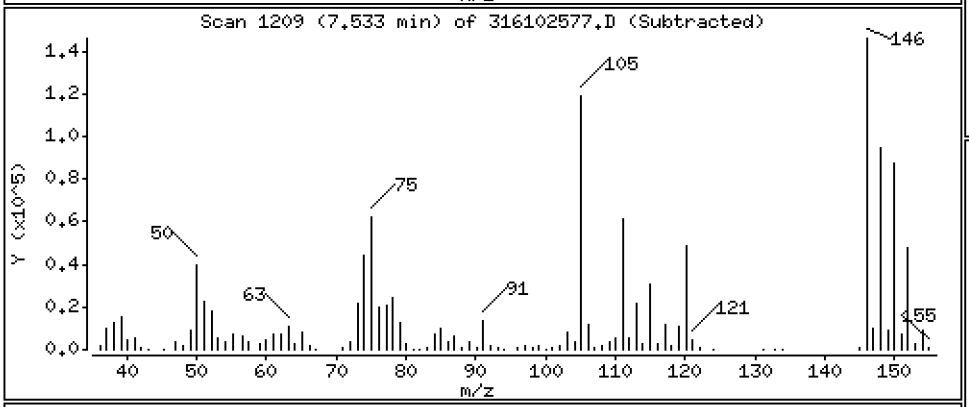
Purge Volume: 5.0 Operator: CJG

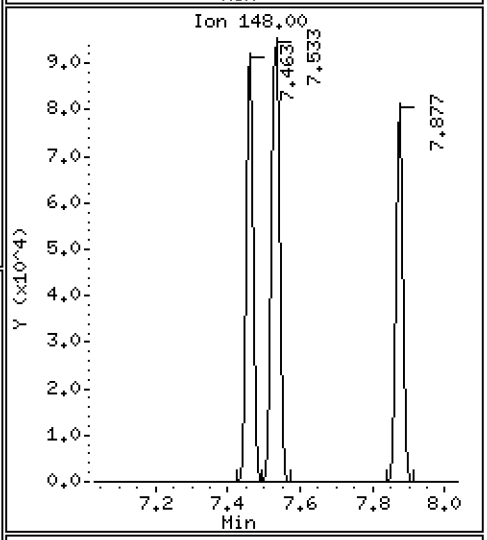
Column phase: DB-VRX Column diameter: 0.25

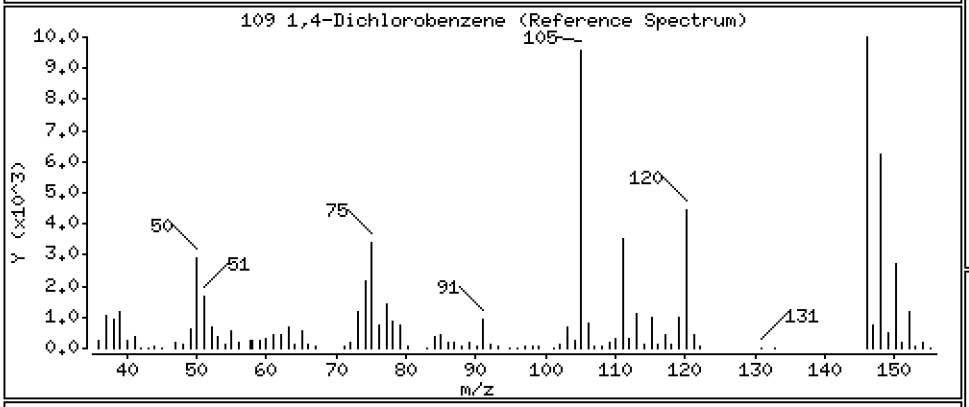
109 1,4-Dichlorobenzene Concentration: 21.3213 ug/L

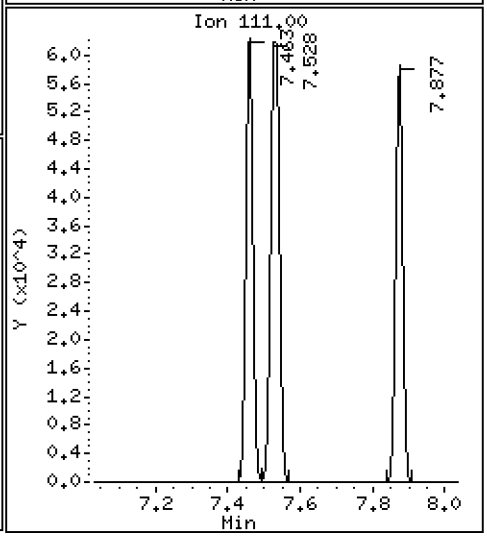


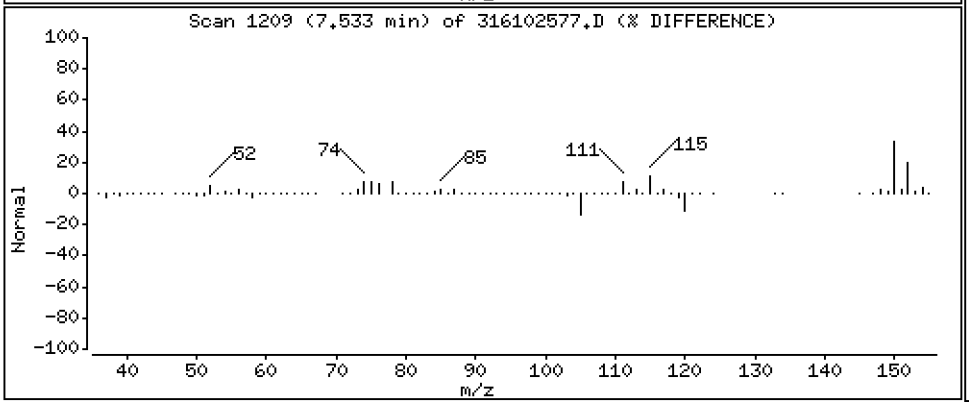












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 114

Date : 26-OCT-2016 07:30

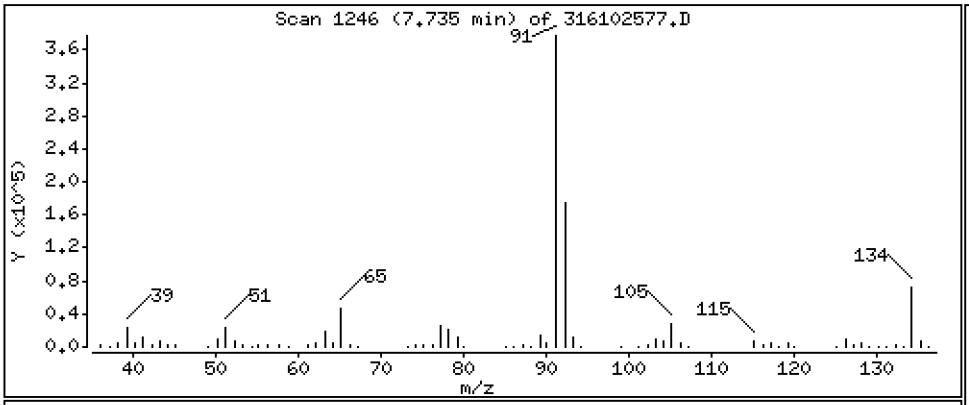
Client ID: 2184163001MS Instrument: ms03.i

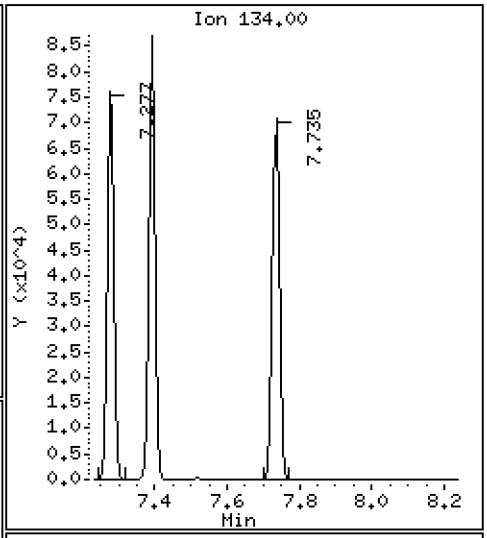
Sample Info: 2429373;;1;3;;MS;1;

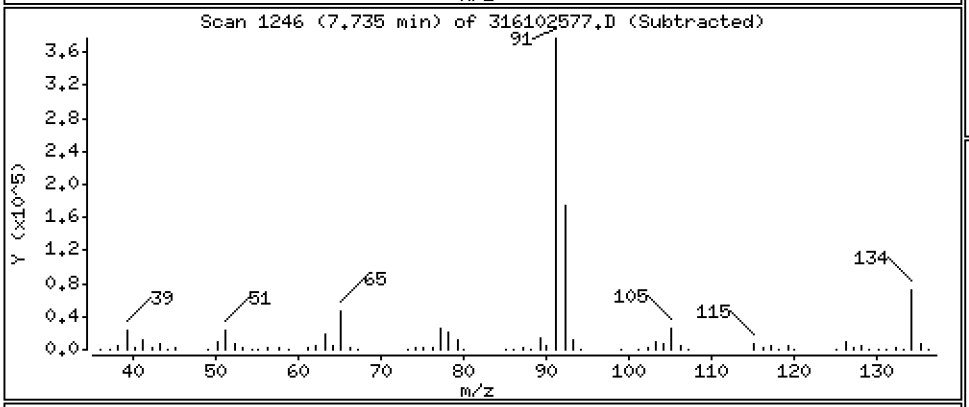
Purge Volume: 5.0 Operator: CJG

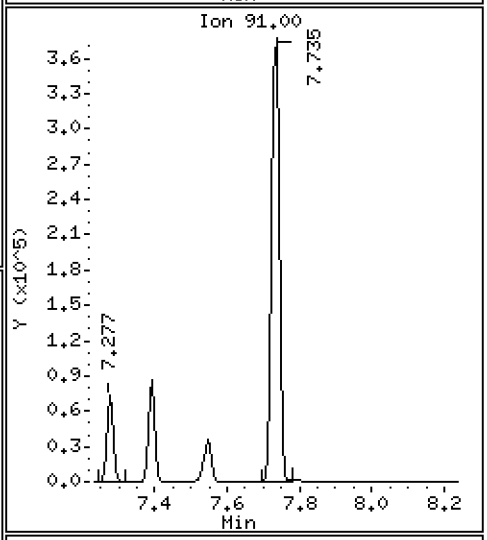
Column phase: DB-VRX Column diameter: 0.25

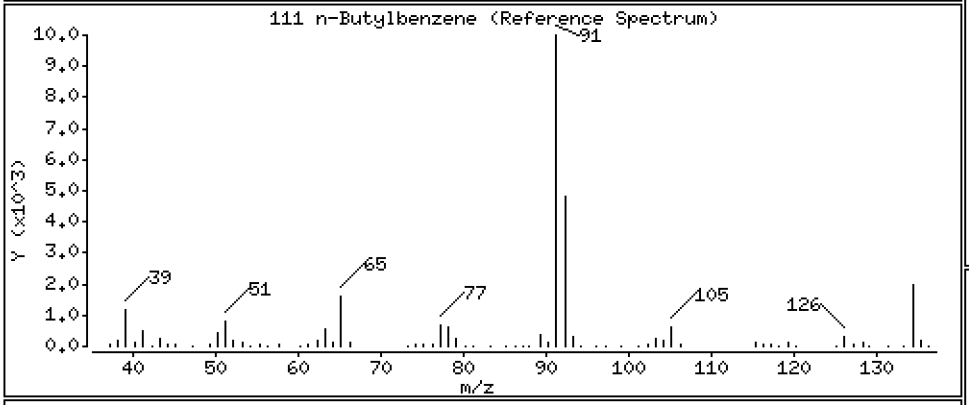
111 n-Butylbenzene Concentration: 20.0835 ug/L

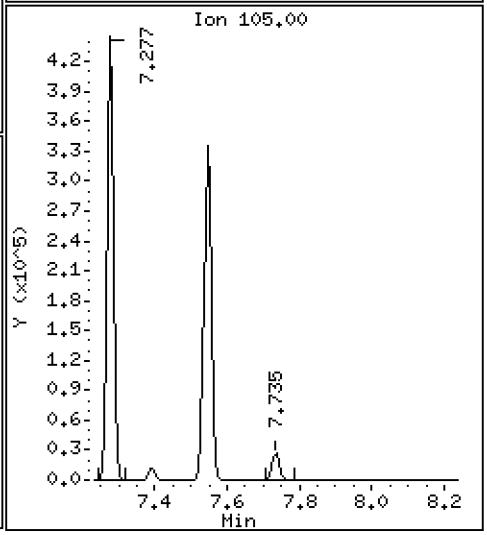


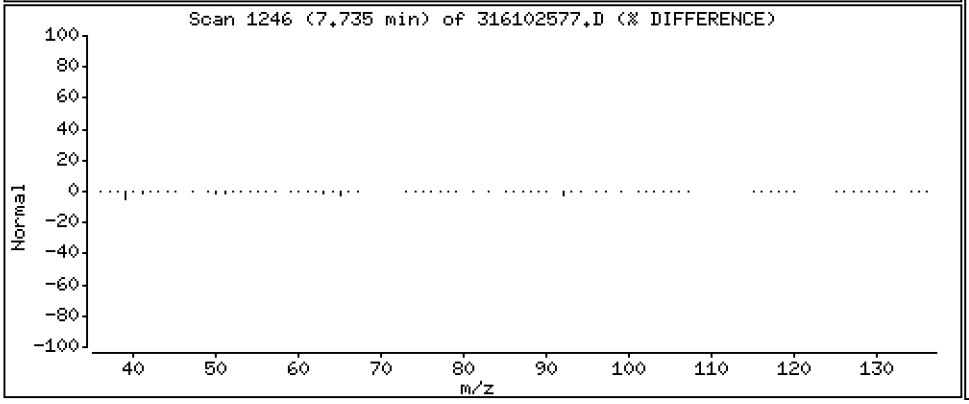












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 115

Date : 26-OCT-2016 07:30

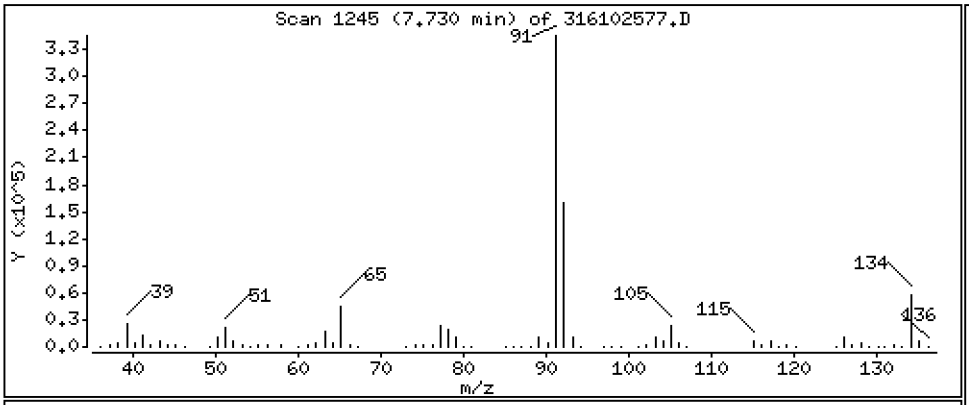
Client ID: 2184163001MS Instrument: ms03.i

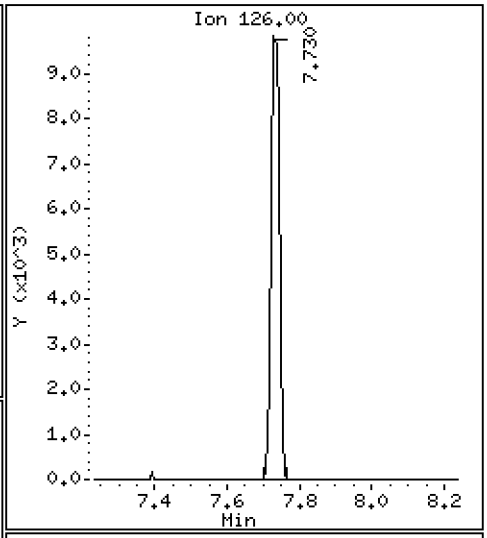
Sample Info: 2429373;;1;3;;MS;1;

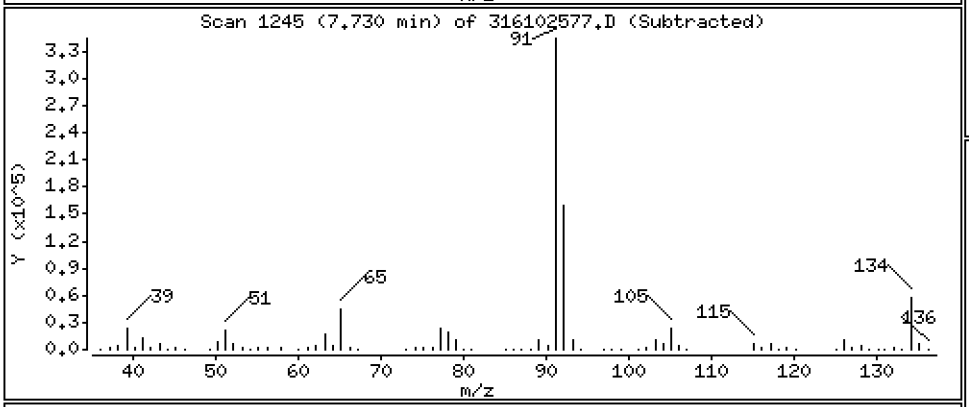
Purge Volume: 5.0 Operator: CJG

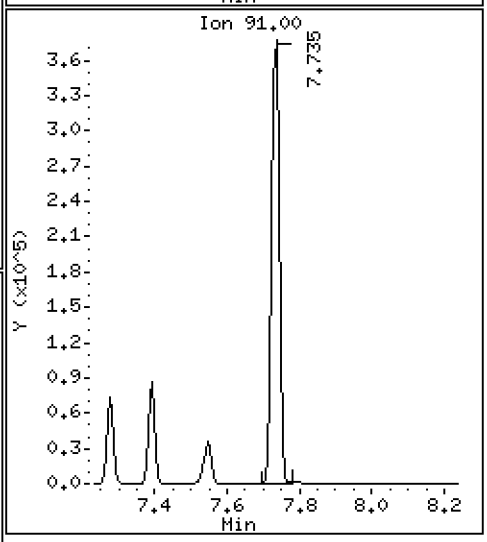
Column phase: DB-VRX Column diameter: 0.25

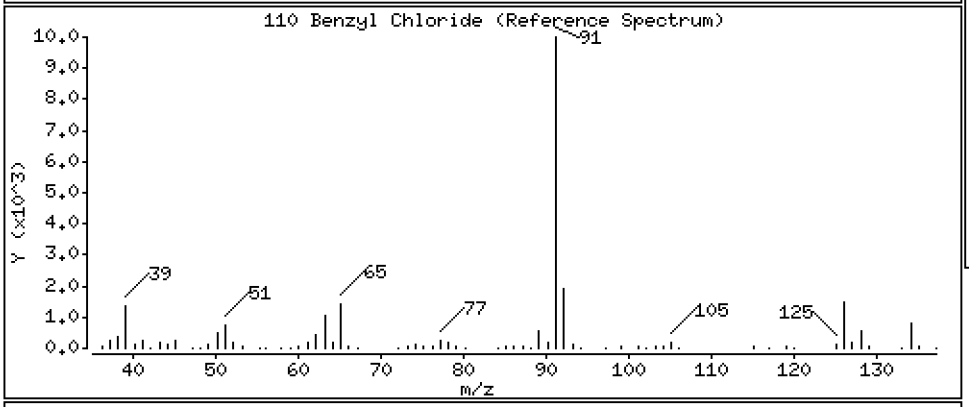
110 Benzyl Chloride Concentration: 11.3740 ug/L

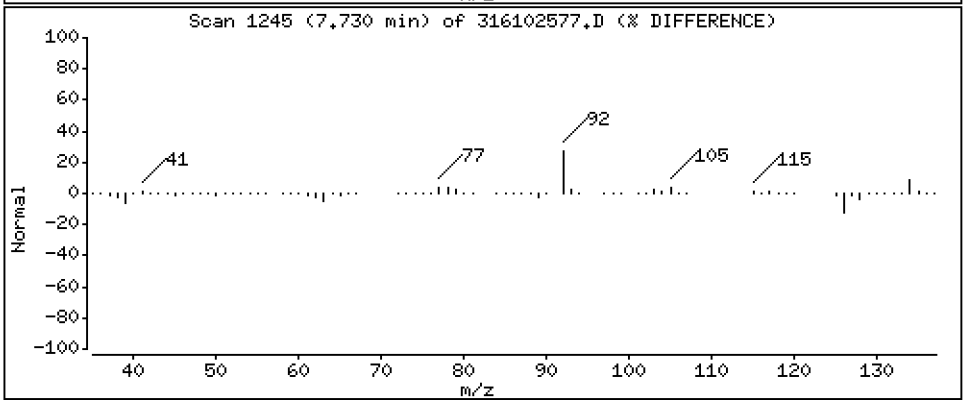












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 116

Date : 26-OCT-2016 07:30

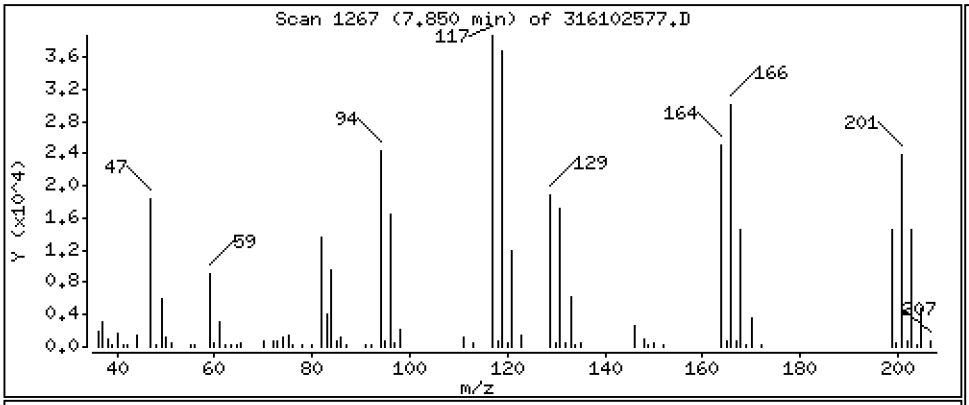
Client ID: 2184163001MS Instrument: ms03.i

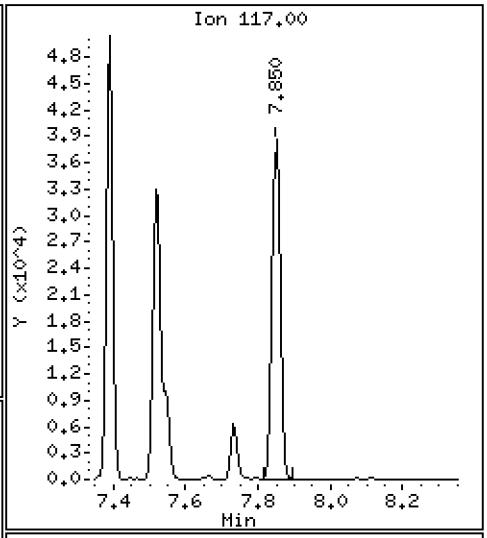
Sample Info: 2429373::1:3::MS:1:

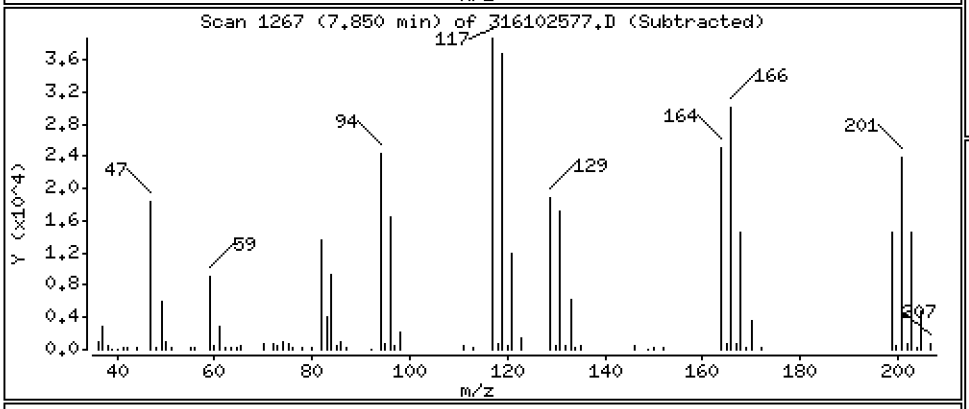
Purge Volume: 5.0 Operator: CJG

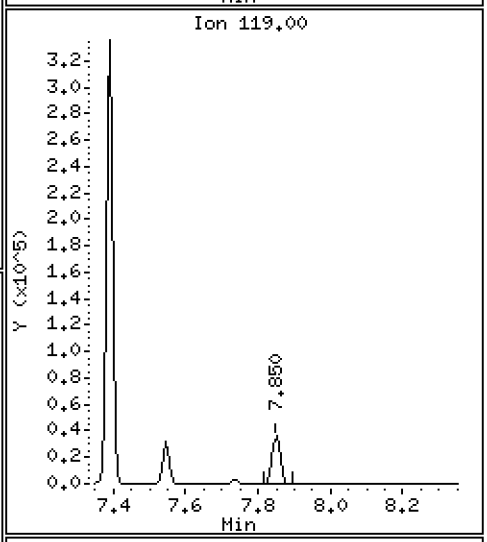
Column phase: DB-VRX Column diameter: 0.25

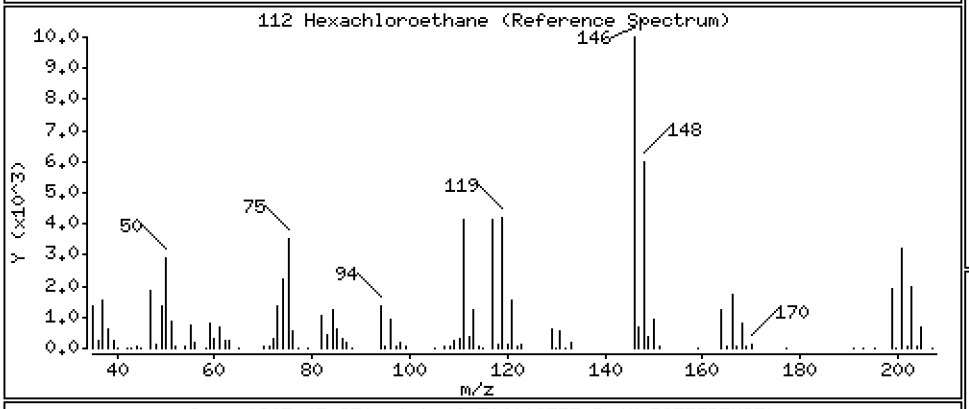
112 Hexachloroethane Concentration: 18.4879 ug/L

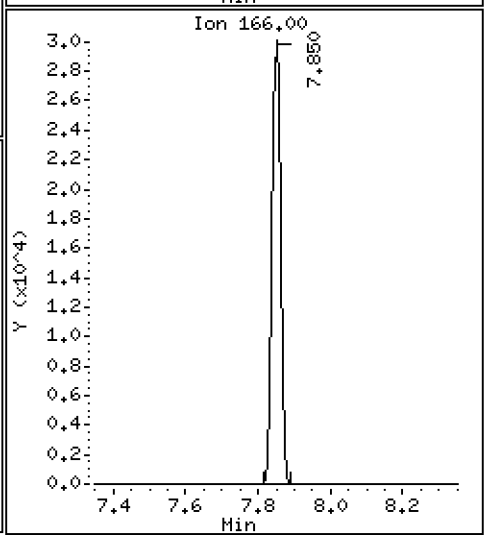


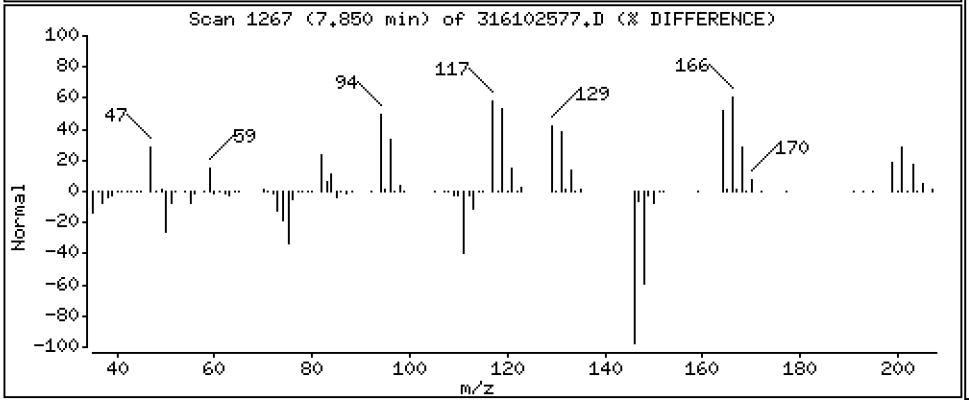












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 117

Date : 26-OCT-2016 07:30

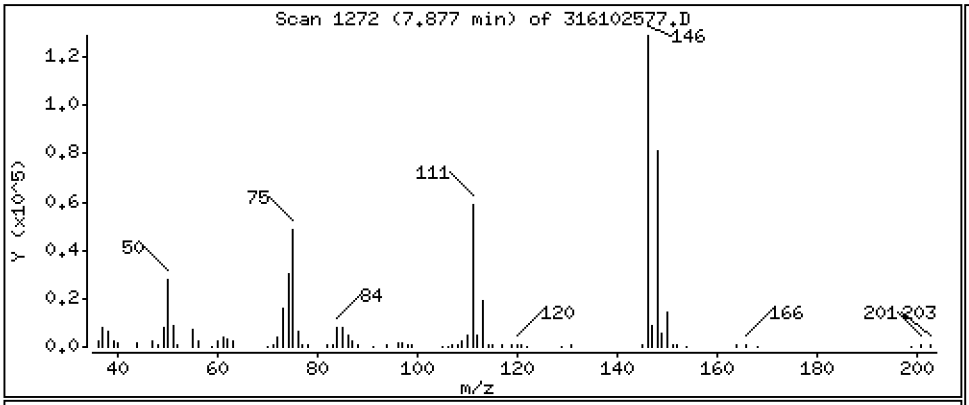
Client ID: 2184163001MS Instrument: ms03.i

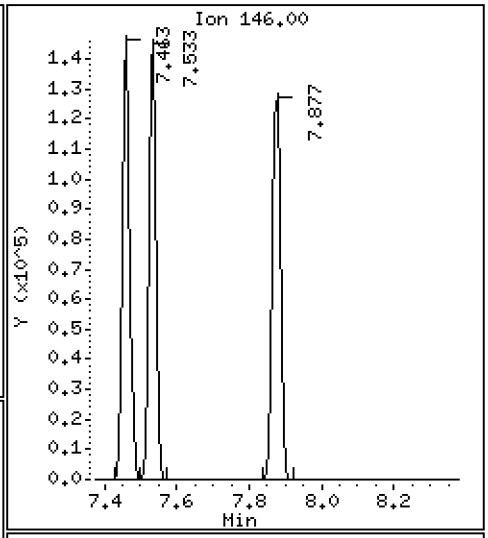
Sample Info: 2429373;;1;3;;MS;1;

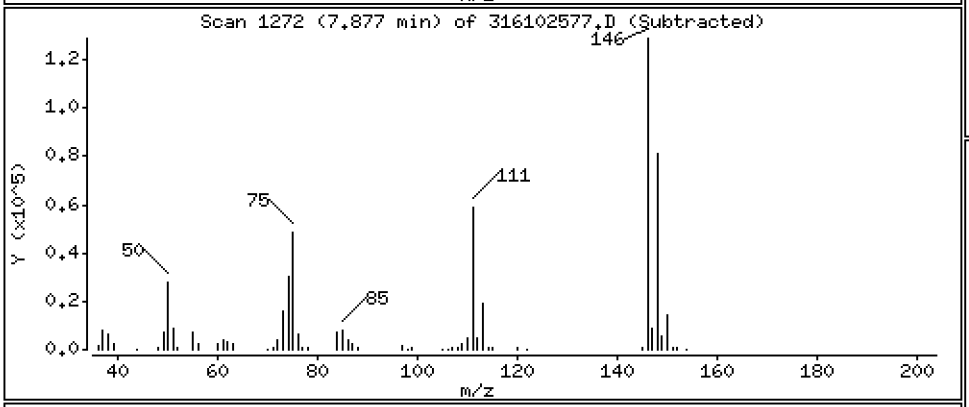
Purge Volume: 5.0 Operator: CJG

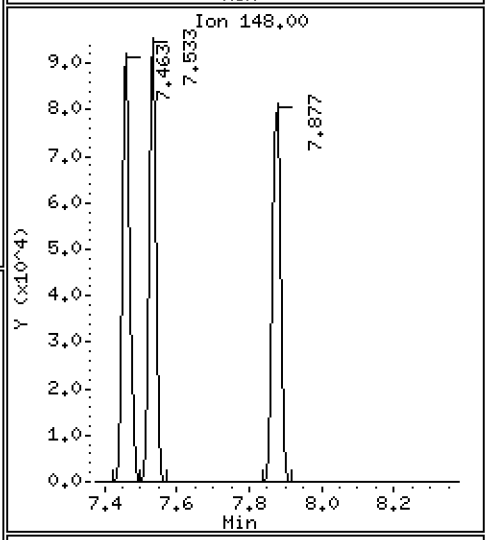
Column phase: DB-VRX Column diameter: 0.25

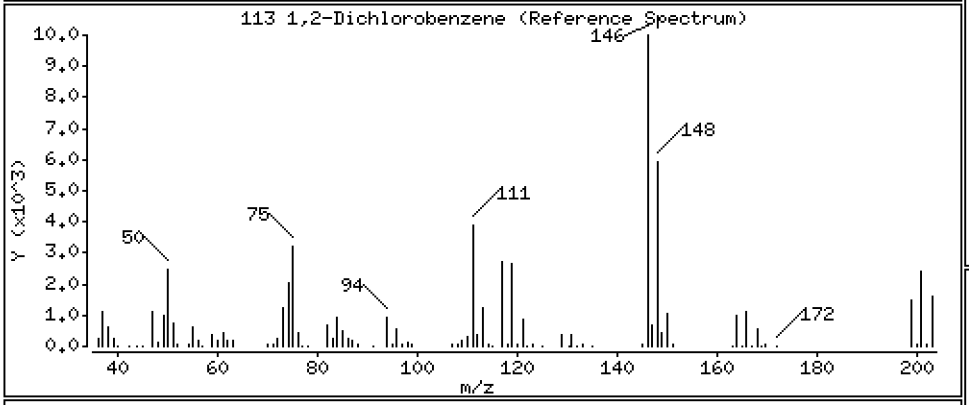
113 1,2-Dichlorobenzene Concentration: 21.0316 ug/L

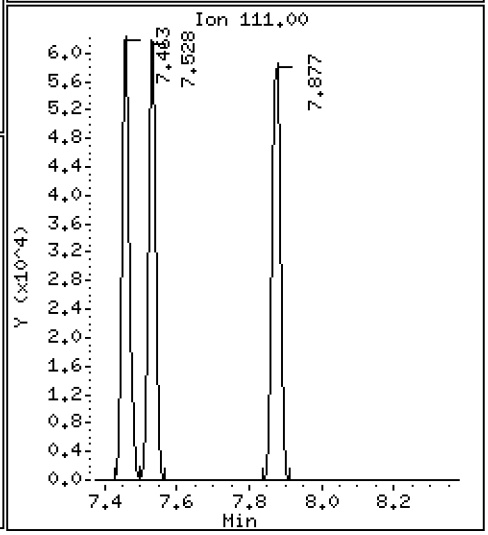


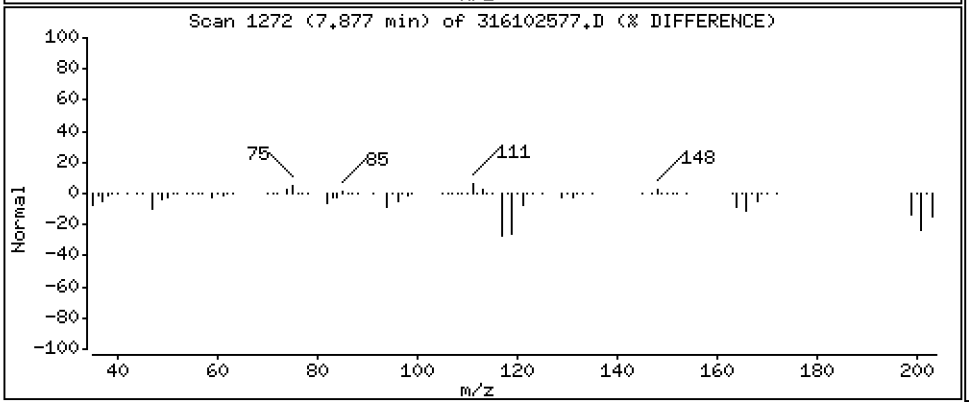












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 118

Date : 26-OCT-2016 07:30

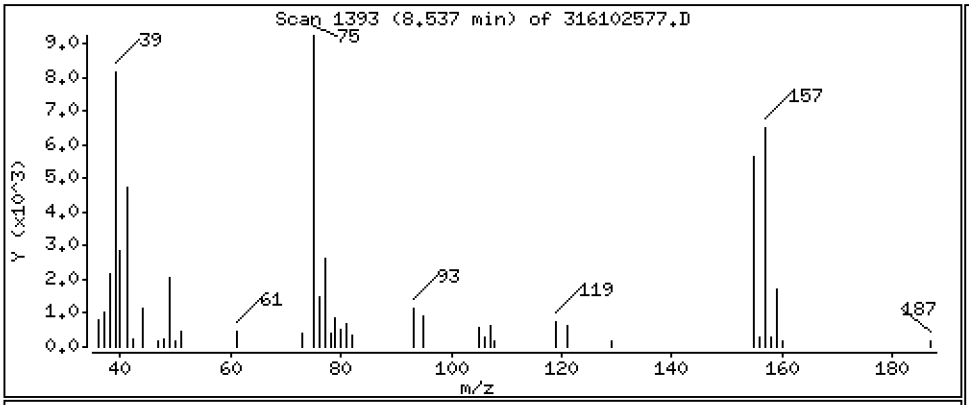
Client ID: 2184163001MS Instrument: ms03.i

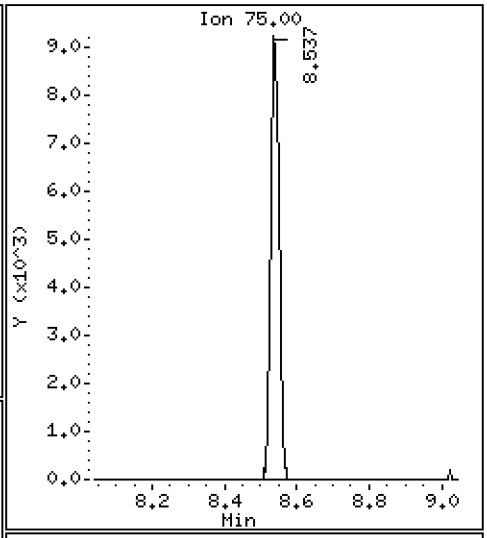
Sample Info: 2429373;;1;3;;MS;1;

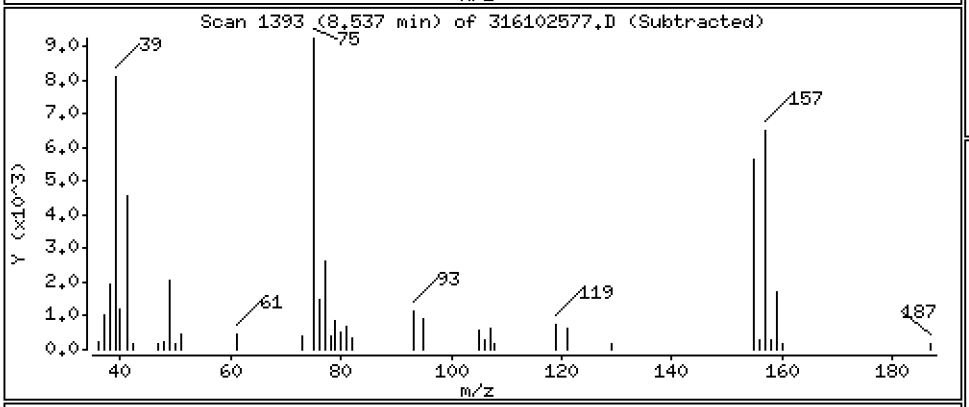
Purge Volume: 5.0 Operator: CJG

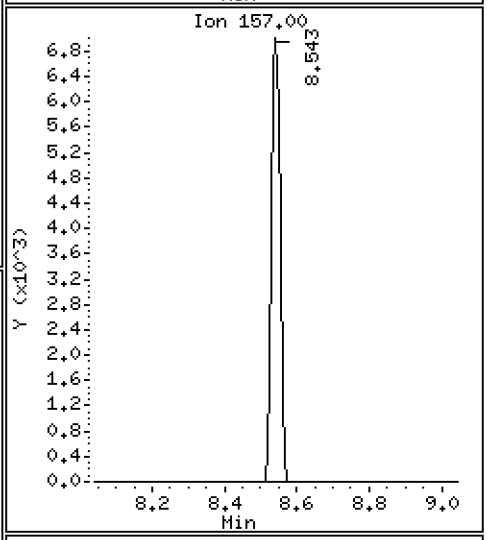
Column phase: DB-VRX Column diameter: 0.25

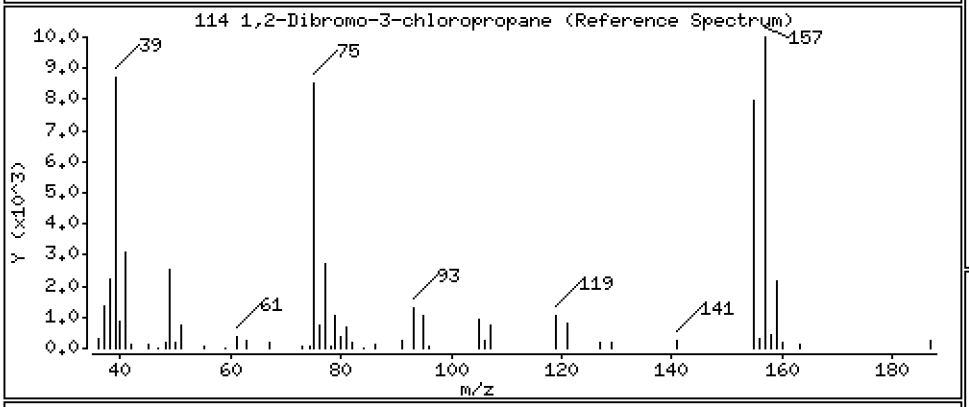
114 1,2-Dibromo-3-chloropropane Concentration: 19.0748 ug/L

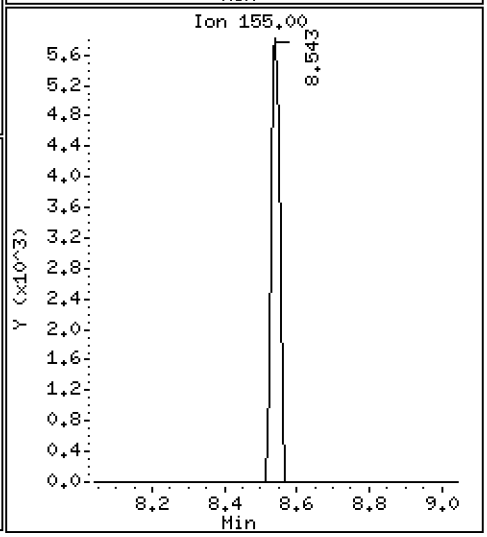


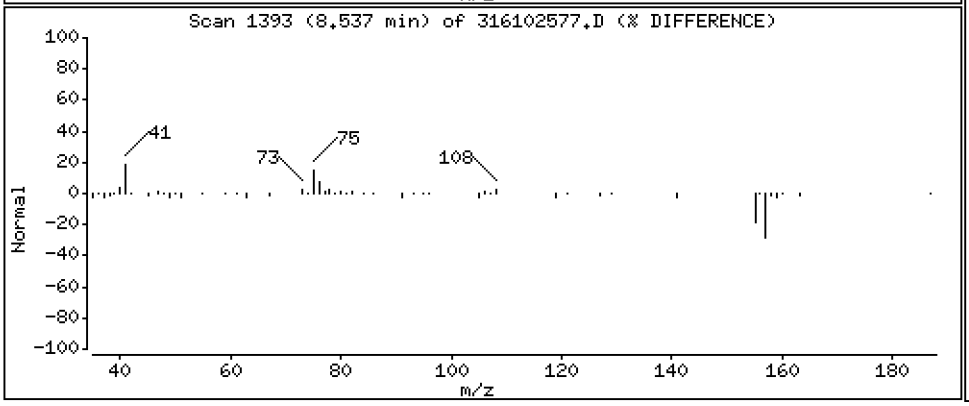












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 119

Date : 26-OCT-2016 07:30

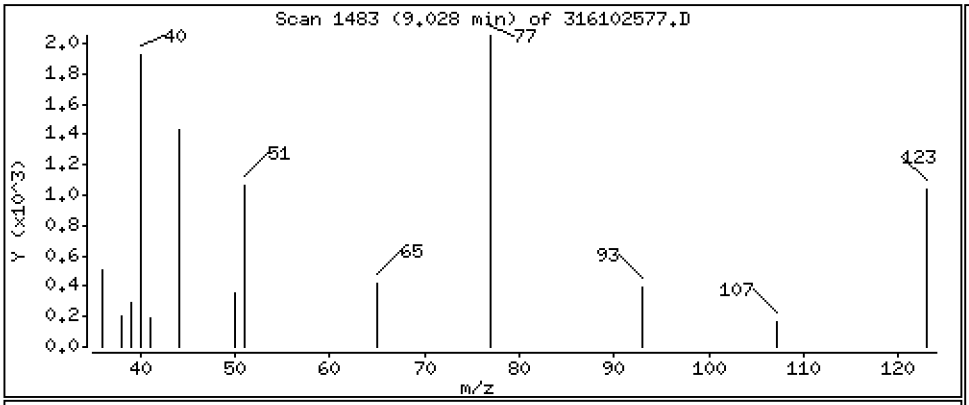
Client ID: 2184163001MS Instrument: ms03.i

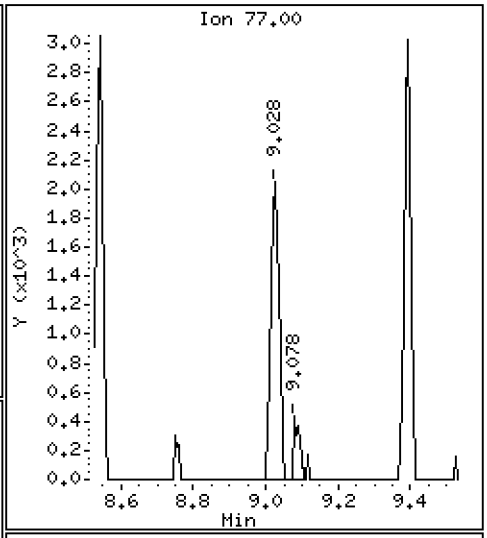
Sample Info: 2429373;;1;3;;MS;1;

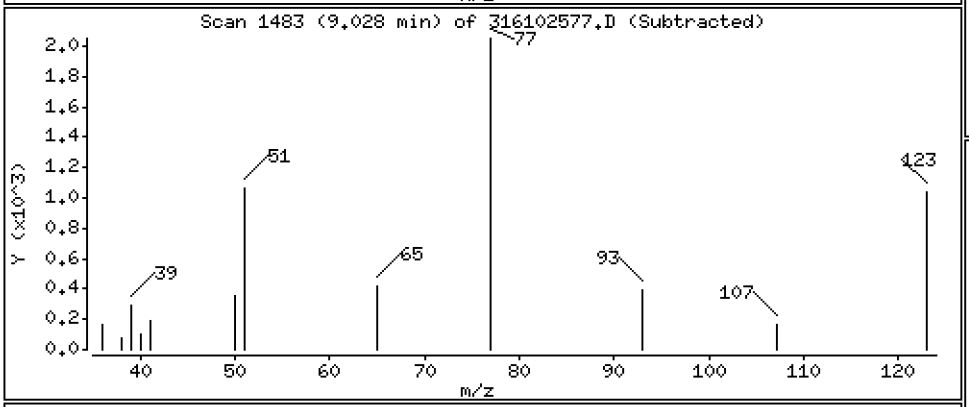
Purge Volume: 5.0 Operator: CJG

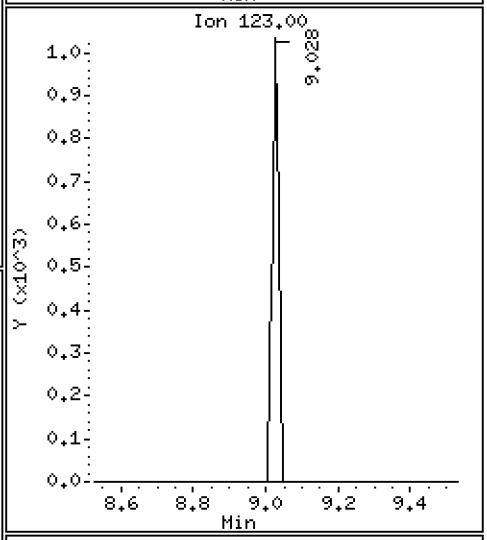
Column phase: DB-VRX Column diameter: 0.25

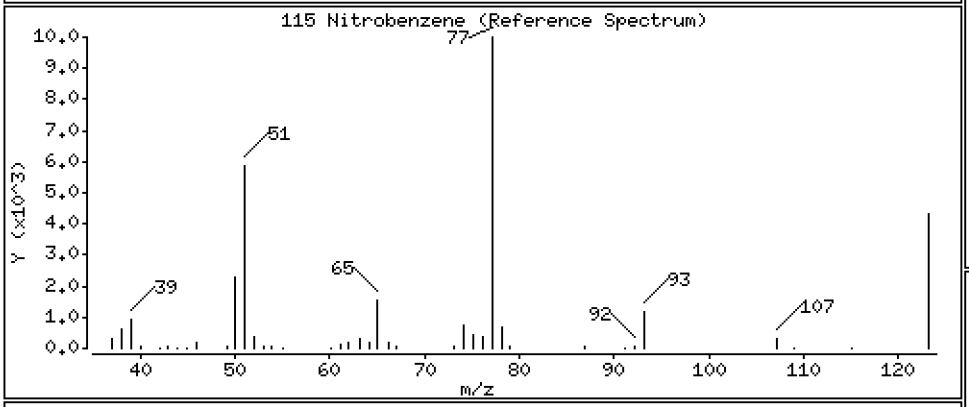
115 Nitrobenzene Concentration: 265.679 ug/L

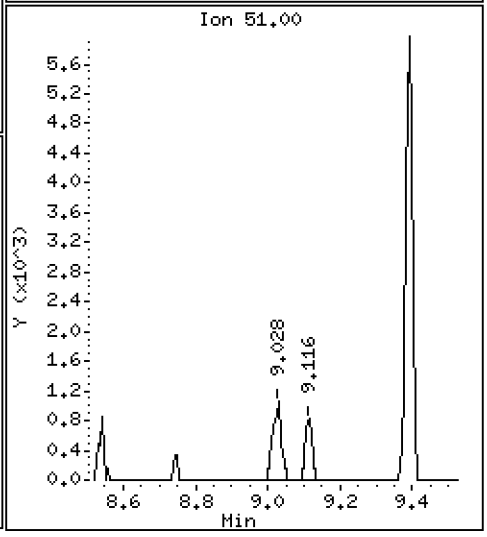


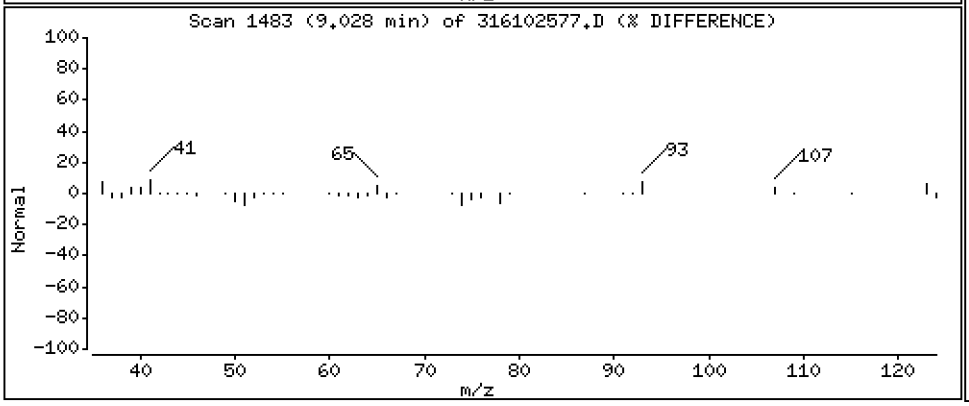












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 120

Date : 26-OCT-2016 07:30

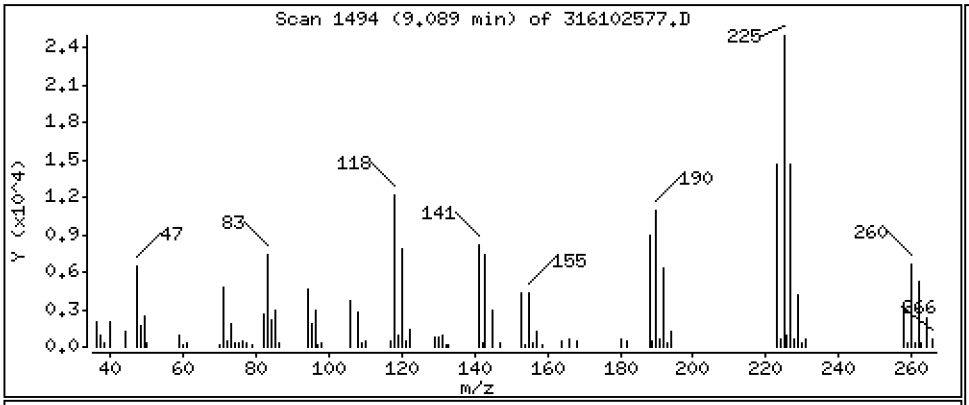
Client ID: 2184163001MS Instrument: ms03.i

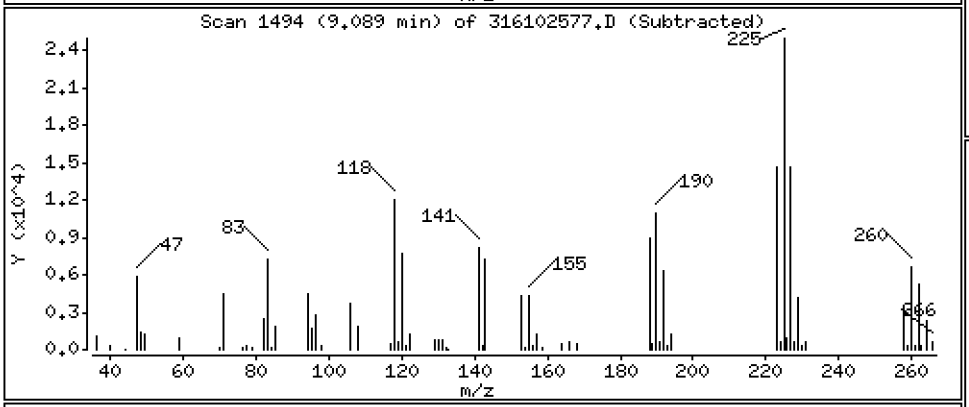
Sample Info: 2429373;;1;3;;MS;1;

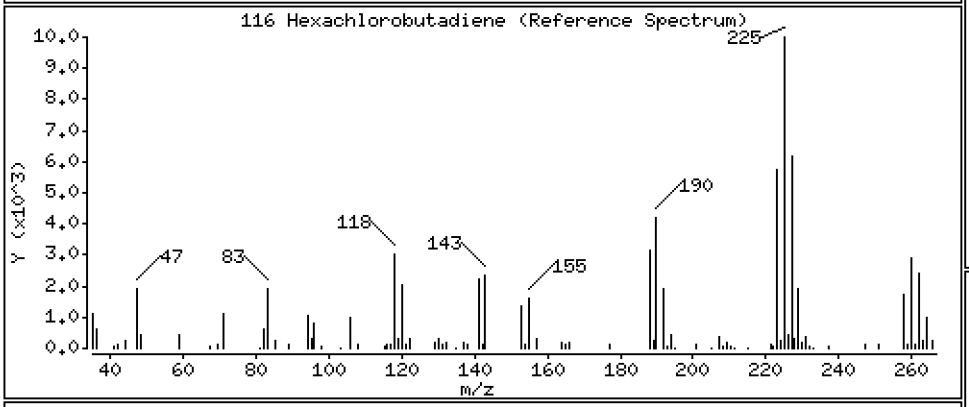
Purge Volume: 5.0 Operator: CJG

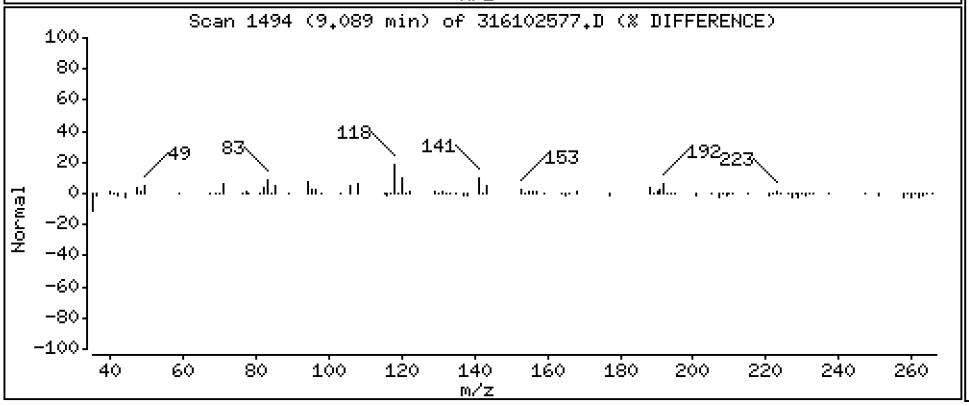
Column phase: DB-VRX Column diameter: 0.25

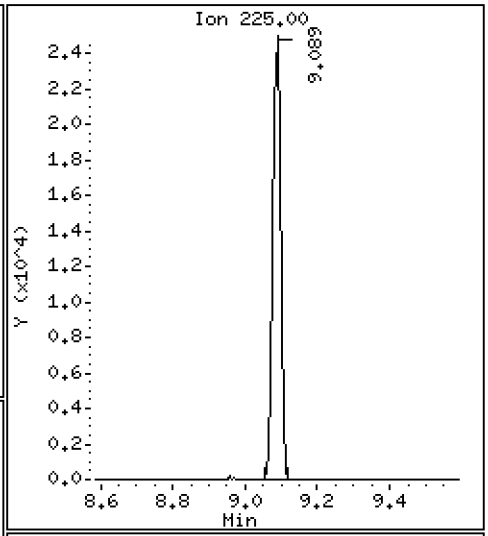
116 Hexachlorobutadiene Concentration: 20.5389 ug/L

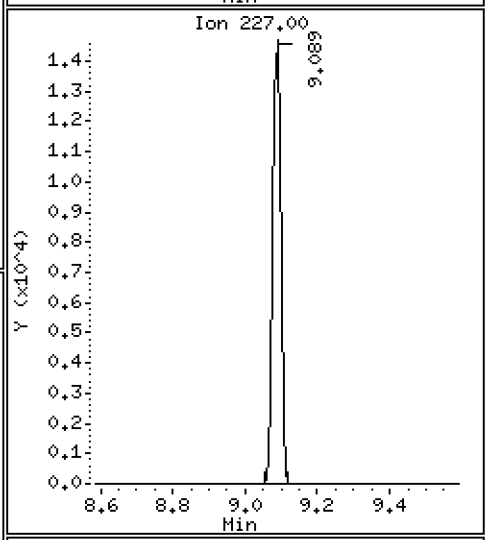


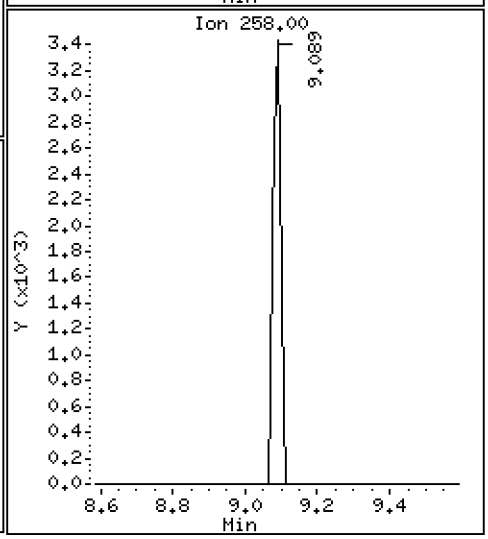












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 121

Date : 26-OCT-2016 07:30

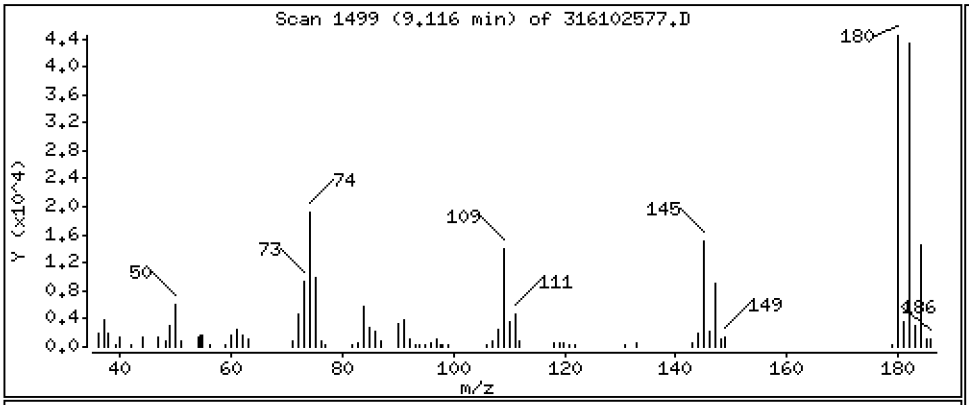
Client ID: 2184163001MS Instrument: ms03.i

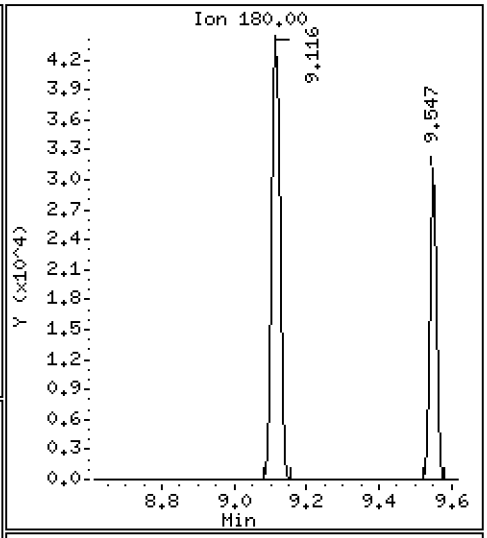
Sample Info: 2429373;;1;3;;MS;1;

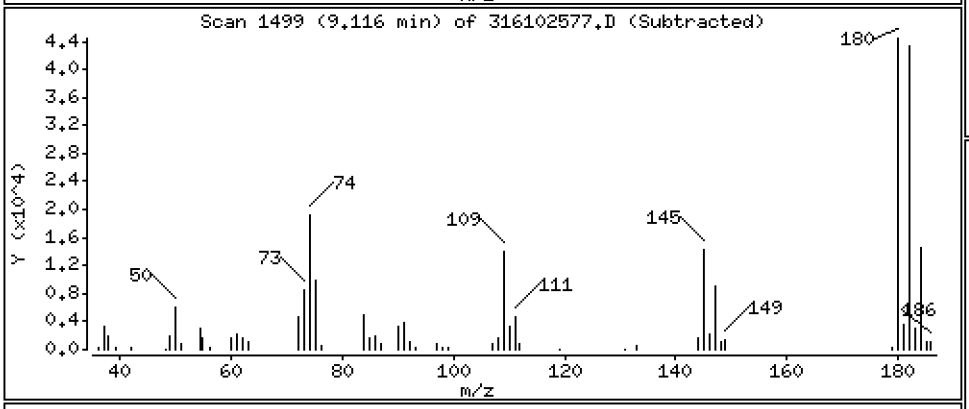
Purge Volume: 5.0 Operator: CJG

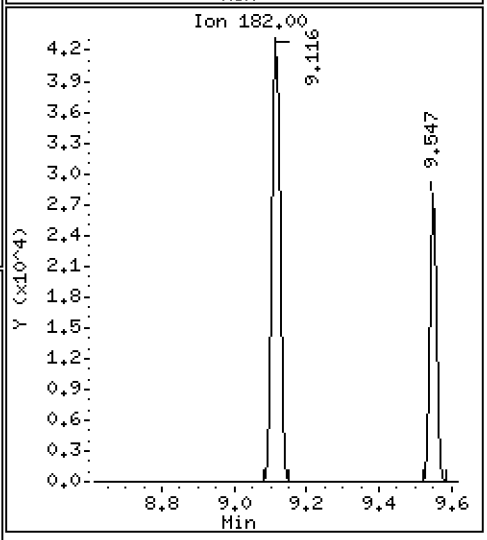
Column phase: DB-VRX Column diameter: 0.25

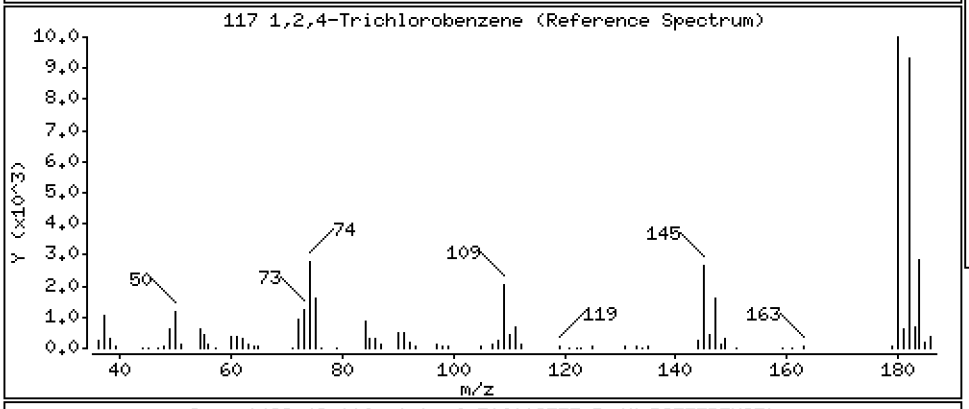
117 1,2,4-Trichlorobenzene Concentration: 17.2892 ug/L

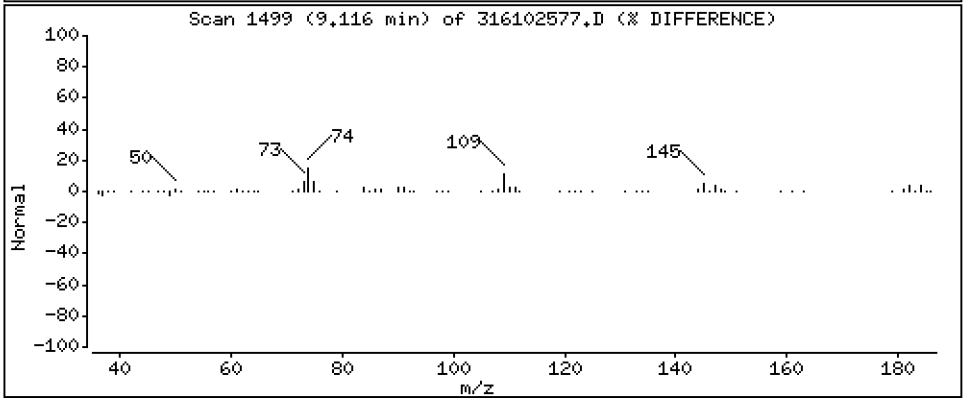












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 122

Date : 26-OCT-2016 07:30

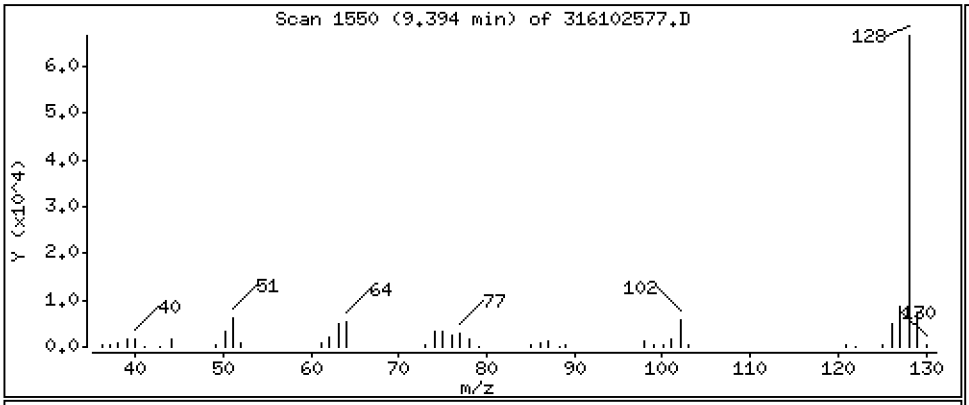
Client ID: 2184163001MS Instrument: ms03.i

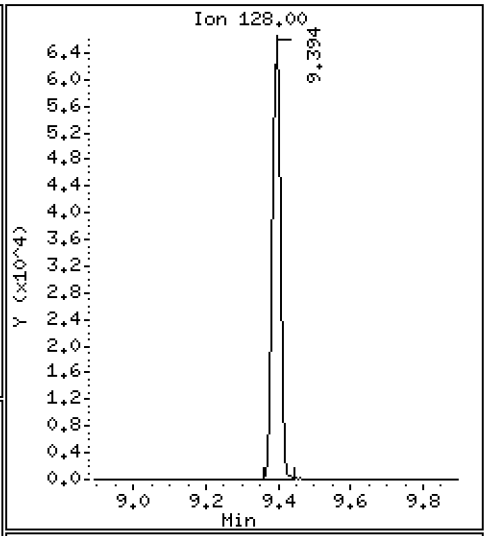
Sample Info: 2429373;;1;3;;MS;1;

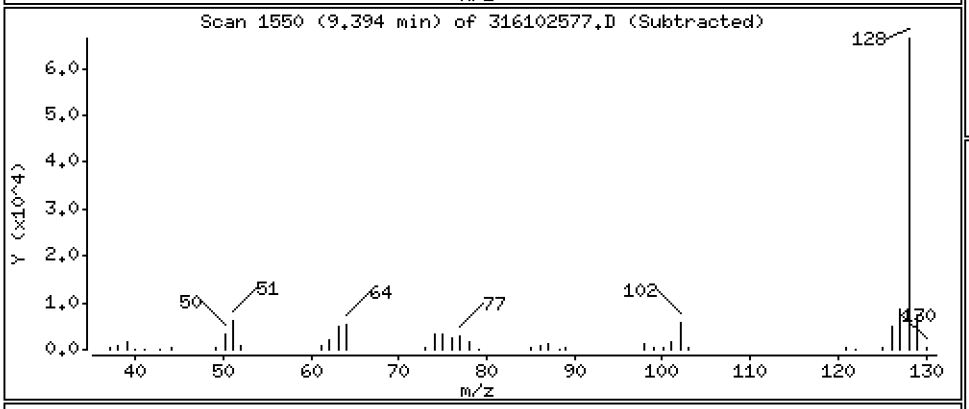
Purge Volume: 5.0 Operator: CJG

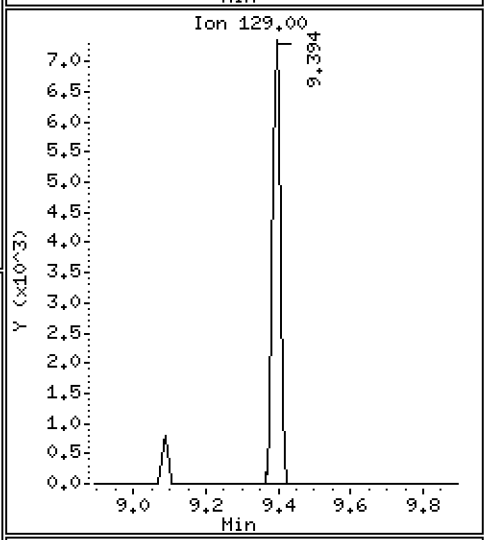
Column phase: DB-VRX Column diameter: 0.25

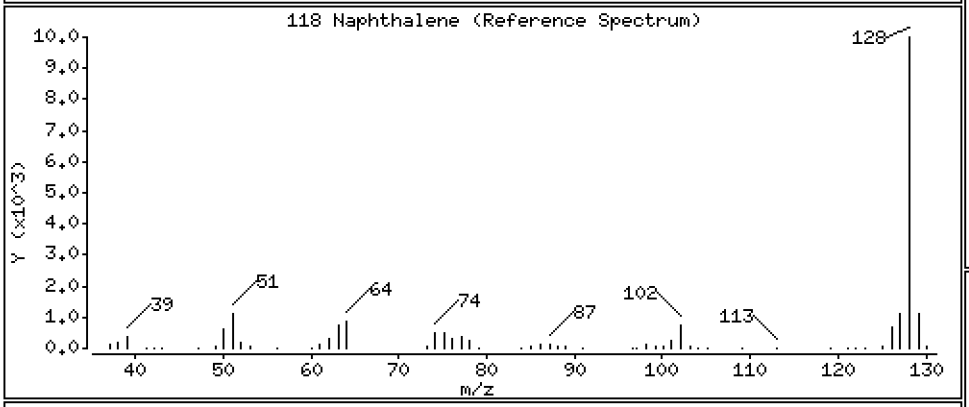
118 Naphthalene Concentration: 14.1055 ug/L

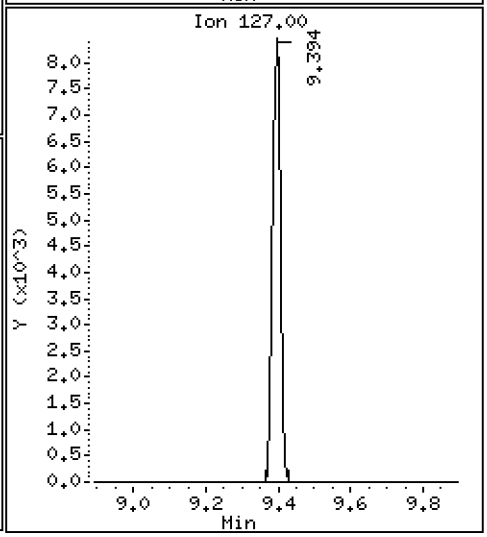


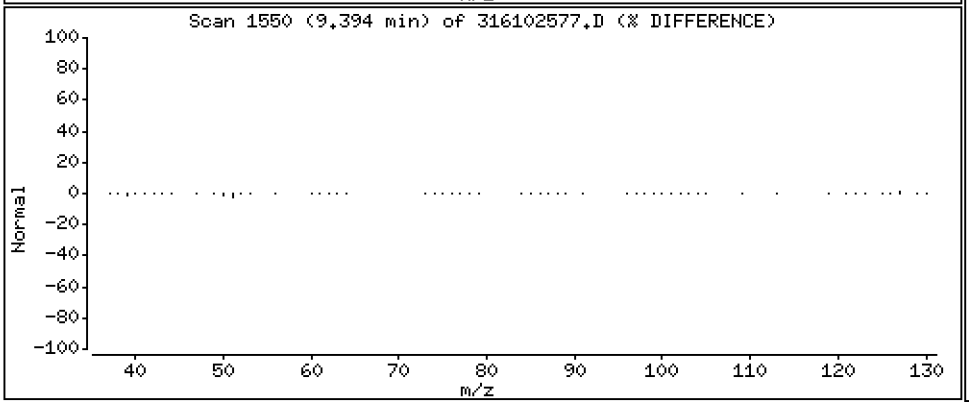












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 123

Date : 26-OCT-2016 07:30

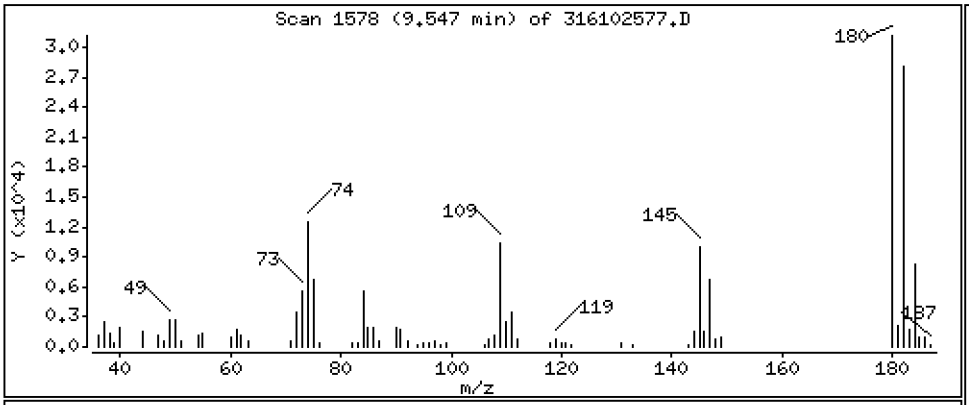
Client ID: 2184163001MS Instrument: ms03.i

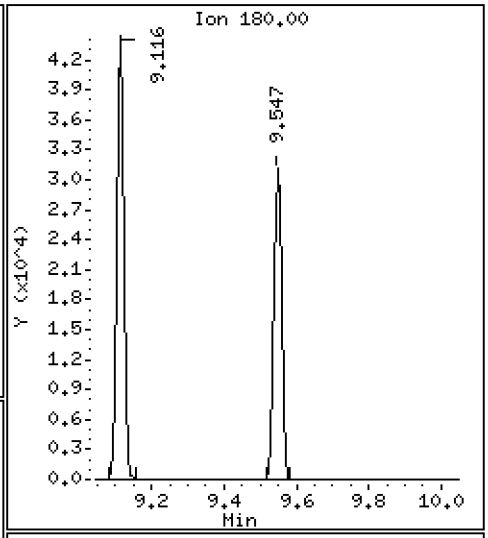
Sample Info: 2429373;;1;3;;MS;1;

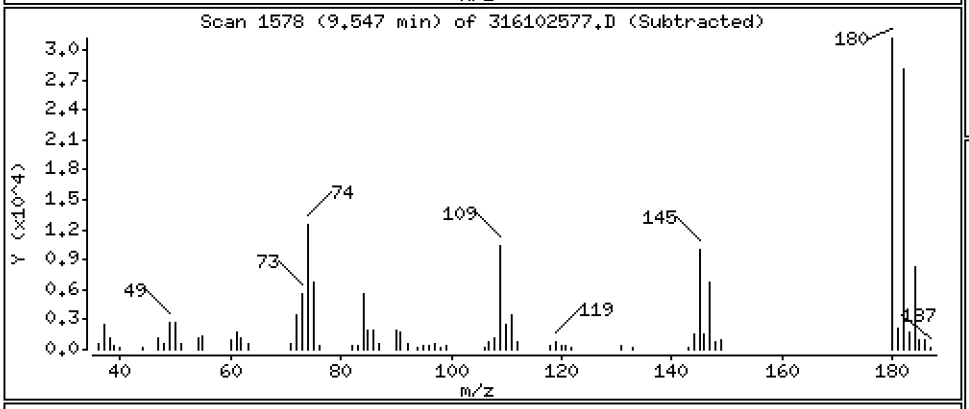
Purge Volume: 5.0 Operator: CJG

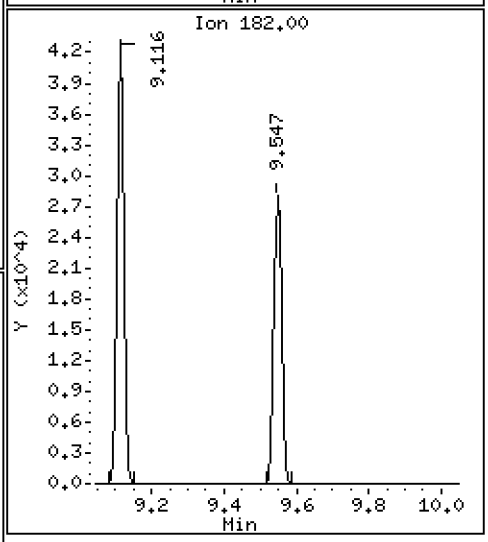
Column phase: DB-VRX Column diameter: 0.25

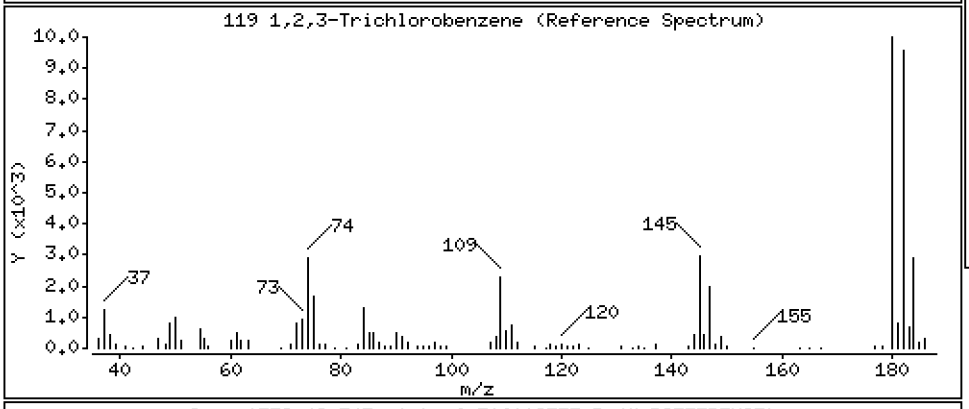
119 1,2,3-Trichlorobenzene Concentration: 17.3495 ug/L

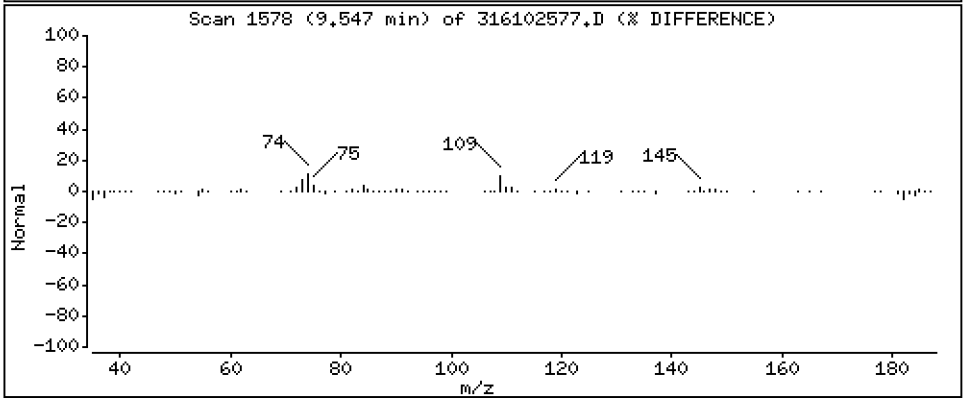












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102577.D Page 124

Date : 26-OCT-2016 07:30

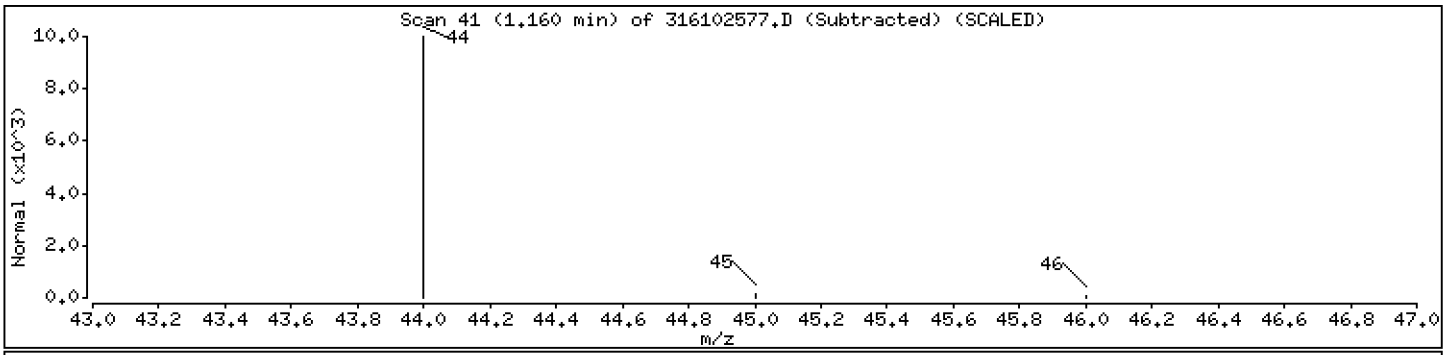
Client ID: 2184163001MS Instrument: ms03.i

Sample Info: 2429373;;1;3;;MS;1;

Purge Volume: 5.0 Operator: CJG

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0

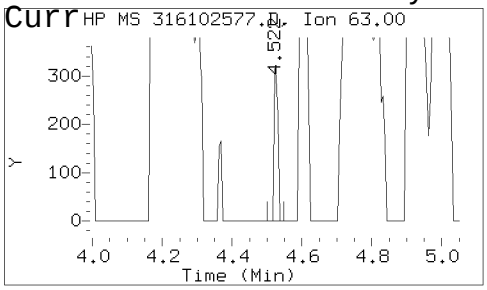


MANUAL INTEGRATION REPORT

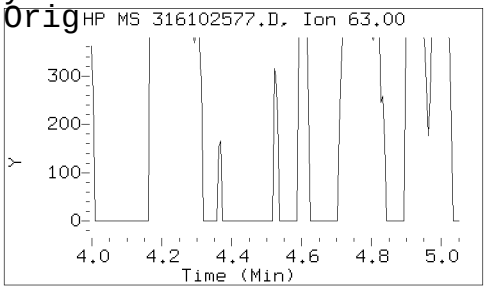
Report Date: 10/26/2016 10:59
Lab Sample ID: 2429373 Client ID: 2184163001MS
DataFile:/Chem2/ms03.i/03_2016/3161025A.b/316102577.D
RawFile:/Chem2/ms03.i/03_2016/3161025A.b/RawData/316102577.D
Injection Date: 26-OCT-2016 07:30 Operator: CJG

2-Chloroethylvinyl ether

Curr



Orig

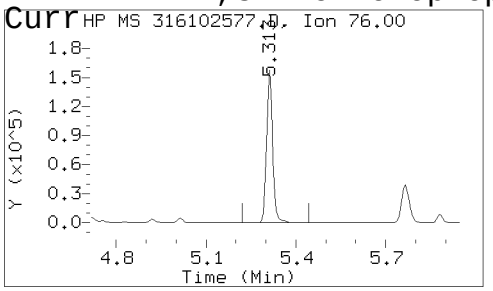


Curr. Area: 272
Orig. Area: 0

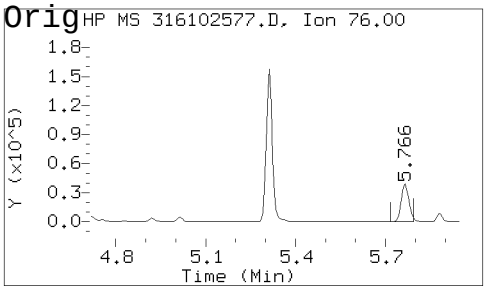
Curr. ON-COL: 0.0718720
Orig. ON-COL: 0.000000

1,3-Dichloropropane

Curr



Orig



Curr. Area: 218740
Orig. Area: 70713

Curr. ON-COL: 18.9428
Orig. ON-COL: 6.12372

UNASSIGNED PEAK REPORT

Report Date: 10/26/2016 10:59
Lab Sample ID: 2429373 Client ID: 2184163001MS
DataFile:/Chem2/ms03.i/03_2016/3161025A.b/316102577.D
RawFile:/Chem2/ms03.i/03_2016/3161025A.b/RawData/316102577.D
Injection Date: 26-OCT-2016 07:30 Operator: CJG

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FTMM-64-GW-8...MSD

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Matrix (soil/water): WATER Lab Sample ID: 2429374

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 316102578.D

Level (low/med): Date Received: 10/21/16

% Moisture: not dec. 100.0 Date Analyzed: 10/26/16

GC Column: RTXVRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
67-64-1	Acetone	111	
71-43-2	Benzene	20.6	
108-86-1	Bromobenzene	19.3	
74-97-5	Bromochloromethane	20.3	
75-27-4	Bromodichloromethane	20.1	
75-25-2	Bromoform	15.8	
74-83-9	Bromomethane	20.3	
78-93-3	2-Butanone	108	
75-65-0	tert.- Butyl Alcohol	116	
98-06-6	tert-Butylbenzene	21.0	
104-51-8	n-Butylbenzene	20.6	
135-98-8	sec-Butylbenzene	22.1	
56-23-5	Carbon Tetrachloride	20.7	
108-90-7	Chlorobenzene	18.2	
124-48-1	Chlorodibromomethane	17.3	
75-00-3	Chloroethane	22.2	
67-66-3	Chloroform	20.7	
74-87-3	Chloromethane	21.8	
95-49-8	o-Chlorotoluene	21.2	
106-43-4	p-Chlorotoluene	21.0	
96-12-8	1,2-Dibromo-3-Chloropropane	19.0	
106-93-4	1,2-Dibromoethane	18.5	
95-50-1	1,2-Dichlorobenzene	21.0	
541-73-1	1,3-Dichlorobenzene	20.8	
106-46-7	1,4-Dichlorobenzene	21.2	
75-71-8	Dichlorodifluoromethane	18.7	
75-34-3	1,1-Dichloroethane	21.0	
107-06-2	1,2-Dichloroethane	20.7	
75-35-4	1,1-Dichloroethene	21.8	
156-59-2	cis-1,2-Dichloroethene	20.7	
156-60-5	trans-1,2-Dichloroethene	21.6	
594-20-7	2,2-Dichloropropane	16.9	
142-28-9	1,3-Dichloropropane	18.8	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FTMM-64-GW-8...MSD

Lab Name: ALS Global **Contract:**

Lab Code: VOA **Case No.:** **SAS No.:** **SDG No.:** PQF-048

Matrix (soil/water): WATER **Lab Sample ID:** 2429374

Sample wt/vol: 5.00 (g/mL) ML **Lab File ID:** 316102578.D

Level (low/med): **Date Received:** 10/21/16

% Moisture: not dec. 100.0 **Date Analyzed:** 10/26/16

GC Column: RTXVRX **ID:** 0.25 (mm) **Dilution Factor:** 1.0

Soil Extract Volume: (uL) **Soil Aliquot Volume:** (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
78-87-5	1,2-Dichloropropane	21.2	
563-58-6	1,1-Dichloropropene	22.4	
10061-01-5	cis-1,3-Dichloropropene	17.6	
10061-02-6	trans-1,3-Dichloropropene	19.1	
100-41-4	Ethylbenzene	18.7	
87-68-3	Hexachlorobutadiene	21.4	
591-78-6	2-Hexanone	108	
98-82-8	Isopropylbenzene	21.3	
99-87-6	p-Isopropyltoluene	21.4	
1634-04-4	Methyl t-Butyl Ether	20.1	
108-10-1	4-Methyl-2-Pentanone(MIBK)	109	
75-09-2	Methylene Chloride	20.6	
91-20-3	Naphthalene	15.5	
103-65-1	n-Propylbenzene	21.4	
100-42-5	Styrene	21.3	
630-20-6	1,1,1,2-Tetrachloroethane	19.6	
79-34-5	1,1,2,2-Tetrachloroethane	20.1	
127-18-4	Tetrachloroethene	22.6	
108-88-3	Toluene	19.8	
1330-20-7	Total Xylenes	58.1	
87-61-6	1,2,3-Trichlorobenzene	17.9	
120-82-1	1,2,4-Trichlorobenzene	18.6	
71-55-6	1,1,1-Trichloroethane	21.0	
79-00-5	1,1,2-Trichloroethane	18.8	
79-01-6	Trichloroethene	20.1	
75-69-4	Trichlorofluoromethane	21.7	
96-18-4	1,2,3-Trichloropropane	19.7	
95-63-6	1,2,4-Trimethylbenzene	21.9	
108-67-8	1,3,5-Trimethylbenzene	22.2	
75-01-4	Vinyl Chloride	21.2	
95-47-6	o-Xylene	19.5	
108383/106423	mp-Xylene	38.6	

Data File: 316102578.D Page 1
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\31610257
Lab Smp Id: 2429374 Client Smp ID: 2184163001MSD
Inj Date : 26-OCT-2016 07:52
Operator : CJG Inst ID: ms03.i
Smp Info : 2429374;;1;3;;MSD;1;
Misc Info : ZZ VOMS 41258 D8260W
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b0
Meth Date : 26-Oct-2016 10:26 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 28 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.258	(0.332)	203457	18.6655	18.6655	
2 Chloromethane	50	1.389	1.389	(0.367)	219421	21.7576	21.7576	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	230112	21.1744	21.1744	
4 Bromomethane	94	1.640	1.646	(0.433)	80890	20.2950	20.2950	
5 Chloroethane	64	1.711	1.722	(0.452)	149034	22.2087	22.2087	
6 Pentane	41	1.788	1.793	(0.472)	192302	33.2362	33.2362(R)	
7 Trichlorofluoromethane	101	1.793	1.798	(0.473)	264971	21.6670	21.6670	
8 Dichlorofluoromethane	67	1.826	1.826	(0.482)	359586	22.0351	22.0351	
9 Ethyl Ether	74	1.968	1.967	(0.519)	106983	19.7117	19.7117	
10 1,1-Dichloroethene	61	2.088	2.088	(0.551)	246256	21.8256	21.8256	
12 Carbon Disulfide	76	2.115	2.120	(0.558)	373254	19.3925	19.3925	
11 Freon 113	101	2.099	2.104	(0.554)	147799	23.2265	23.2265	
13 Iodomethane	127	2.175	2.180	(0.574)	31821	20.8827	20.8827	
14 Acrolein	56	2.273	2.273	(0.600)	244562	230.851	230.851	
16 3-Chloro-1-propene	41	2.344	2.344	(0.619)	239856	25.5171	25.5171	
15 Isopropyl Alcohol	45	2.333	2.333	(0.616)	39860	165.170	165.170(R)	
17 Methylene Chloride	84	2.399	2.404	(0.633)	155521	20.5717	20.5717	
18 Acetone	58	2.426	2.426	(0.640)	64712	110.615	110.615	
19 Methyl acetate	74	2.481	2.480	(0.655)	19673	16.9467	16.9467(Q)	
20 trans-1,2-Dichloroethene	61	2.486	2.486	(0.656)	236912	21.6032	21.6032	
21 Hexane	57	2.513	2.519	(0.663)	377997	24.4735	24.4735	

Data File: 316102578.D Page 2
Report Date: 26-Oct-2016 10:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
22 Methyl t-Butyl Ether	73	2.530	2.529	(0.667)	380443	20.1023	20.1023	
23 tert.- Butyl Alcohol	59	2.568	2.568	(0.678)	47110	115.664	115.664	
24 Acetonitrile	41	2.682	2.682	(0.708)	84205	137.029	137.029	
25 Diisopropyl ether	45	2.721	2.720	(0.718)	559766	22.5977	22.5977	
26 Chloroprene	53	2.797	2.797	(0.738)	265730	24.5737	24.5737	
27 1,1-Dichloroethane	63	2.813	2.813	(0.742)	299732	20.9931	20.9931	
28 Acrylonitrile	53	2.841	2.840	(0.750)	294028	113.748	113.748	
30 n-Propanol	41	2.912	2.911	(0.768)	111846	253.433	253.433(Q)	
29 Ethyl tert-butyl ether	59	2.912	2.911	(0.768)	442446	21.0426	21.0426	
31 Vinyl acetate	86	2.928	2.928	(0.773)	20947	13.4068	13.4068(Q)	
32 cis-1,2-Dichloroethene	61	3.097	3.097	(0.817)	227267	20.7359	20.7359	
33 2,2-Dichloropropane	77	3.157	3.157	(0.833)	145262	16.9084	16.9084	
M 100 1,2-Dichloroethene, Total	61				464179	42.3391	42.3391	
34 Bromochloromethane	128	3.206	3.206	(0.846)	61748	20.2511	20.2511	
35 Cyclohexane	84	3.212	3.212	(0.847)	275702	23.4104	23.4104	
36 Chloroform	83	3.234	3.233	(0.853)	277364	20.6997	20.6997	
37 Ethyl acetate	43	3.277	3.277	(0.865)	115973	18.4880	18.4880	
38 Methyl acrylate	55	3.294	3.293	(0.869)	126700	20.8254	20.8254	
39 Carbon Tetrachloride	117	3.321	3.321	(0.876)	155819	20.7341	20.7341	
40 Tetrahydrofuran	42	3.332	3.326	(0.879)	224169	112.786	112.786	
$ 41 Dibromofluoromethane	113	3.337	3.337	(0.881)	150237	25.5021	25.5021	
42 1,1,1-Trichloroethane	97	3.359	3.359	(0.886)	210400	21.0058	21.0058	
43 2-Butanone	72	3.403	3.397	(0.898)	91388	107.868	107.868	
44 1,1-Dichloropropene	75	3.424	3.424	(0.904)	236691	22.3541	22.3541	
45 1-Chlorobutane	41	3.446	3.446	(0.909)	199428	25.9746	25.9746	
46 Heptane	71	3.512	3.512	(0.927)	116497	24.1160	24.1160	
48 Propionitrile	54	3.577	3.577	(0.944)	108103	111.759	111.759	
47 Benzene	78	3.561	3.561	(0.940)	673575	20.6051	20.6051	
49 Methacrylonitrile	67	3.583	3.583	(0.945)	62463	20.9862	20.9862	
50 tert-amyl methyl Ether	73	3.599	3.599	(0.950)	337379	19.8572	19.8572	
$ 51 1,2-Dichloroethane-d4	65	3.637	3.637	(0.960)	229440	32.7412	32.7412	
54 Isobutyl alcohol	43	3.632	3.626	(0.958)	49522	319.184	319.184(R)	
52 1,2-Dichloroethane	62	3.675	3.675	(0.970)	199971	20.6549	20.6549	
53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	34948	109.180	109.180	
* 55 Fluorobenzene	96	3.790	3.790	(1.000)	893455	30.0000		
56 Diisobutylene	57	3.790	3.795	(1.000)	330291	18.0217	18.0217	
57 Trichloroethene	95	3.883	3.883	(1.024)	156480	20.1092	20.1092	
58 Methyl cyclohexane	83	3.883	3.883	(0.674)	290998	21.6637	21.6637	
59 tert-Amyl Ethylether	59	3.986	3.986	(1.052)	309021	20.4186	20.4186	
60 Dibromomethane	93	4.139	4.139	(1.092)	77421	19.4932	19.4932	
61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	170594	21.2353	21.2353	
62 Bromodichloromethane	83	4.221	4.221	(1.114)	162138	20.0531	20.0531	
63 Methyl methacrylate	41	4.292	4.292	(1.132)	118765	21.4530	21.4530	
64 1,4-Dioxane	88	4.336	4.336	(1.144)	26558	996.359	996.359(QR)	
66 cis-1,3-Dichloropropene	75	4.603	4.603	(0.799)	191817	17.5665	17.5665	
67 Octane	85	4.609	4.608	(0.800)	64588	19.6926	19.6926	
$ 68 Toluene-d8	98	4.723	4.723	(0.820)	660113	26.4095	26.4095(R)	
69 Toluene	92	4.756	4.756	(0.826)	382481	19.8422	19.8422	
70 Chloroacetonitrile	48	4.827	4.827	(0.838)	17741	102.736	102.736	
71 2-Nitropropane	41	4.909	4.908	(0.852)	115532	85.6972	85.6972(Q)	
72 1,1-Dichloro-2-propanone	63	4.920	4.919	(0.854)	11180	86.7988	86.7988(Q)	
73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.985	(0.865)	723661	108.897	108.897	
75 trans-1,3-Dichloropropene	75	5.012	5.012	(0.870)	180996	19.0760	19.0760	
74 Tetrachloroethene	164	5.007	5.007	(0.869)	104169	22.5579	22.5579	

Data File: 316102578.D Page 3
Report Date: 26-Oct-2016 10:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
76	Ethyl methacrylate	69	5.094	5.094	(0.884)	177671	20.4322	20.4322	
77	1,1,2-Trichloroethane	83	5.121	5.121	(0.889)	105185	18.7707	18.7707	
78	Chlorodibromomethane	129	5.247	5.247	(0.911)	87110	17.2853	17.2853	
79	1,3-Dichloropropane	76	5.312	5.312	(0.922)	227028	18.7730	18.7730(M)	H
80	1,2-Dibromoethane	107	5.422	5.421	(0.941)	103153	18.5067	18.5067	
81	2-Hexanone	43	5.542	5.541	(0.962)	455312	108.171	108.171	
82	1-Chlorohexane	91	5.738	5.738	(0.996)	199827	20.3263	20.3263	
* 83	Chlorobenzene-d5	82	5.760	5.760	(1.000)	404642	30.0000		
85	Ethylbenzene	106	5.782	5.781	(1.004)	206457	18.6906	18.6906	
84	Chlorobenzene	112	5.771	5.771	(1.002)	367599	18.1770	18.1770	
86	1,1,1,2-Tetrachloroethane	131	5.814	5.814	(1.009)	103815	19.5507	19.5507	
87	mp-Xylene	106	5.880	5.880	(1.021)	497786	38.6191	38.6191	
M 120	1,3-Dichloropropene, Total	75				372813	36.6425	36.6425	
88	o-Xylene	106	6.196	6.196	(1.076)	222855	19.4734	19.4734	
89	Styrene	104	6.235	6.234	(0.829)	365689	21.2857	21.2857	
90	Bromoform	173	6.262	6.262	(0.833)	34106	15.8448	15.8448	
91	Isopropylbenzene	105	6.425	6.425	(0.855)	599211	21.3454	21.3454	
$ 92	4-Bromofluorobenzene	174	6.644	6.649	(0.884)	136116	28.3908	28.3908	
M 121	TOTAL XYLENES	106				720641	58.0924	58.0924	
94	n-Propylbenzene	120	6.736	6.736	(0.896)	151878	21.3955	21.3955	
93	Bromobenzene	156	6.731	6.731	(0.895)	113378	19.2656	19.2656	
95	1,1,2,2-Tetrachloroethane	83	6.791	6.791	(0.903)	136879	20.1065	20.1065	
97	1,3,5-Trimethylbenzene	105	6.884	6.884	(0.916)	456549	22.2113	22.2113	
96	o-Chlorotoluene	91	6.867	6.867	(0.914)	467431	21.2057	21.2057	
98	1,2,3-Trichloropropane	110	6.906	6.905	(0.919)	39883	19.7104	19.7104	
99	trans-1,4-Dichloro-2-butene	53	6.927	6.933	(0.922)	30555	18.7956	18.7956(Q)	
101	p-Chlorotoluene	91	6.993	6.993	(0.930)	422230	21.0258	21.0258	
102	tert-Butylbenzene	134	7.140	7.135	(0.950)	97839	21.0199	21.0199	
103	Pentachloroethane	117	7.162	7.162	(0.953)	79129	20.4208	20.4208	
104	1,2,4-Trimethylbenzene	105	7.195	7.195	(0.957)	439161	21.8514	21.8514	
105	sec-Butylbenzene	105	7.277	7.277	(0.968)	567174	22.0673	22.0673	
106	p-Isopropyltoluene	134	7.391	7.391	(0.983)	104617	21.3636	21.3636	
107	1,3-Dichlorobenzene	146	7.462	7.462	(0.993)	199955	20.7721	20.7721	
* 108	1,4-Dichlorobenzene-d4	152	7.517	7.522	(1.000)	231644	30.0000		
109	1,4-Dichlorobenzene	146	7.533	7.533	(1.002)	204789	21.1829	21.1829	
111	n-Butylbenzene	134	7.735	7.735	(1.029)	89048	20.6498	20.6498(Q)	
110	Benzyl Chloride	126	7.735	7.735	(1.029)	13699	11.2430	11.2430(Q)	
112	Hexachloroethane	117	7.850	7.849	(1.044)	55357	18.4996	18.4996	
113	1,2-Dichlorobenzene	146	7.877	7.877	(1.048)	181965	21.0240	21.0240	
114	1,2-Dibromo-3-chloropropane	75	8.537	8.542	(1.136)	13353	19.0386	19.0386	
115	Nitrobenzene	77	9.028	9.028	(1.201)	2955	265.551	265.551	
116	Hexachlorobutadiene	225	9.088	9.088	(1.209)	34580	21.4480	21.4480	
117	1,2,4-Trichlorobenzene	180	9.115	9.115	(1.213)	67684	18.6484	18.6484	
118	Naphthalene	128	9.394	9.394	(1.250)	100149	15.4948	15.4948	
119	1,2,3-Trichlorobenzene	180	9.547	9.546	(1.270)	43155	17.9404	17.9404	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 316102578.D Page 4
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i
Lab File ID: 316102578.D
Lab Smp Id: 2429374
Analysis Type: VOA
Quant Type: ISTD
Operator: CJG
Calibration Date: 25-OCT-2016
Calibration Time: 21:59
Client Smp ID: 2184163001MSD
Level: LOW
Sample Type: WATER
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b
Misc Info: ZZ VOMS 41258 D8260W

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	893455	-11.82
83 Chlorobenzene-d5	432864	216432	865728	404642	-6.52
108 1,4-Dichlorobenze	273837	136919	547674	231644	-15.41

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102578.D Page 5
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

RECOVERY REPORT

Client Name: Client SDG: 3161025A.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 2429374 Client Smp ID: 2184163001MSD
Level: LOW Operator: CJG
Data Type: MS DATA SampleType: MSD
SpikeList File: DOD2014.spk Quant Type: ISTD
Sublist File: DODall.sub
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b
Misc Info: ZZ VOMS 41258 D8260W

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Dichlorodifluorome	20.0000	18.6655	93.33	32-152
2	Chloromethane	20.0000	21.7576	108.79	50-139
3	Vinyl Chloride	20.0000	21.1744	105.87	58-137
4	Bromomethane	20.0000	20.2950	101.48	53-141
5	Chloroethane	20.0000	22.2087	111.04	60-138
6	Pentane	20.0000	33.2362	166.18*	16-134
7	Trichlorofluoromet	20.0000	21.6670	108.34	65-141
8	Dichlorofluorometh	20.0000	22.0351	110.18	72-131
9	Ethyl Ether	20.0000	19.7117	98.56	71-131
10	1,1-Dichloroethene	20.0000	21.8256	109.13	71-131
11	Freon 113	20.0000	23.2265	116.13	70-136
12	Carbon Disulfide	20.0000	19.3925	96.96	64-133
13	Iodomethane	20.0000	20.8827	104.41	69-131
14	Acrolein	200.000	230.851	115.43	39-155
15	Isopropyl Alcohol	100.000	165.170	165.17*	56-142
16	3-Chloro-1-propene	20.0000	25.5171	127.59	59-135
17	Methylene Chloride	20.0000	20.5717	102.86	74-124
18	Acetone	100.000	110.615	110.61	39-160
19	Methyl acetate	20.0000	16.9467	84.73	56-136
20	trans-1,2-Dichloro	20.0000	21.6032	108.02	75-124
21	Hexane	20.0000	24.4735	122.37	48-143
22	Methyl t-Butyl Eth	20.0000	20.1023	100.51	71-124
23	tert.- Butyl Alcoh	100.000	115.664	115.66	68-129
24	Acetonitrile	100.000	137.029	137.03	50-142
25	Diisopropyl ether	20.0000	22.5977	112.99	67-128
26	Chloroprene	20.0000	24.5737	122.87	62-125
27	1,1-Dichloroethane	20.0000	20.9931	104.97	77-125
28	Acrylonitrile	100.000	113.748	113.75	63-135
29	Ethyl tert-butyl e	20.0000	21.0426	105.21	70-127
30	n-Propanol	200.000	253.433	126.72	19-342
31	Vinyl acetate	20.0000	13.4068	67.03	54-146
32	cis-1,2-Dichloroet	20.0000	20.7359	103.68	78-123
33	2,2-Dichloropropan	20.0000	16.9084	84.54	60-139
34	Bromochloromethane	20.0000	20.2511	101.26	78-123
35	Cyclohexane	20.0000	23.4104	117.05	71-130
36	Chloroform	20.0000	20.6997	103.50	79-124
37	Ethyl acetate	20.0000	18.4880	92.44	55-138
38	Methyl acrylate	20.0000	20.8254	104.13	70-130
39	Carbon Tetrachlori	20.0000	20.7341	103.67	72-136
40	Tetrahydrofuran	100.000	112.786	112.79	57-133

Data File: 316102578.D Page 6
Report Date: 26-Oct-2016 10:59

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
42	1,1,1-Trichloroeth	20.0000	21.0058	105.03	74-131
43	2-Butanone	100.000	107.868	107.87	56-143
44	1,1-Dichloropropen	20.0000	22.3541	111.77	79-125
45	1-Chlorobutane	20.0000	25.9746	129.87	70-130
46	Heptane	20.0000	24.1160	120.58	49-140
47	Benzene	20.0000	20.6051	103.03	79-120
48	Propionitrile	100.000	111.759	111.76	64-136
49	Methacrylonitrile	20.0000	20.9862	104.93	63-133
50	tert-amyl methyl E	20.0000	19.8572	99.29	68-128
54	Isobutyl alcohol	200.000	319.184	159.59*	63-133
52	1,2-Dichloroethane	20.0000	20.6549	103.27	73-128
53	tert-Amyl Alcohol	100.000	109.180	109.18	68-130
56	Diisobutylene	20.0000	18.0217	90.11	60-137
57	Trichloroethene	20.0000	20.1092	100.55	79-123
58	Methyl cyclohexane	20.0000	21.6637	108.32	72-132
59	tert-Amyl Ethyleth	20.0000	20.4186	102.09	70-130
60	Dibromomethane	20.0000	19.4932	97.47	79-123
61	1,2-Dichloropropan	20.0000	21.2353	106.18	78-122
62	Bromodichlorometha	20.0000	20.0531	100.27	79-125
63	Methyl methacrylat	20.0000	21.4530	107.26	67-128
64	1,4-Dioxane	500.000	996.359	199.27*	59-139
65	2-Chloroethylvinyl	20.0000	0.115784	0.58*	51-139
66	cis-1,3-Dichloropr	20.0000	17.5665	87.83	75-124
67	Octane	20.0000	19.6926	98.46	58-127
69	Toluene	20.0000	19.8422	99.21	80-121
70	Chloroacetonitrile	100.000	102.736	102.74	80-120
71	2-Nitropropane	100.000	85.6972	85.70	49-136
73	4-Methyl-2-Pentano	100.000	108.897	108.90	67-130
72	1,1-Dichloro-2-pro	100.000	86.7988	86.80	70-130
74	Tetrachloroethene	20.0000	22.5579	112.79	74-129
75	trans-1,3-Dichloro	20.0000	19.0760	95.38	73-127
76	Ethyl methacrylate	20.0000	20.4322	102.16	72-126
77	1,1,2-Trichloroeth	20.0000	18.7707	93.85	80-119
78	Chlorodibromometha	20.0000	17.2853	86.43	74-126
79	1,3-Dichloropropan	20.0000	18.7730	93.86	80-119
80	1,2-Dibromoethane	20.0000	18.5067	92.53	77-121
81	2-Hexanone	100.000	108.171	108.17	57-139
82	1-Chlorohexane	20.0000	20.3263	101.63	76-124
84	Chlorobenzene	20.0000	18.1770	90.89	82-118
85	Ethylbenzene	20.0000	18.6906	93.45	79-121
88	o-Xylene	20.0000	19.4734	97.37	78-122
86	1,1,1,2-Tetrachlor	20.0000	19.5507	97.75	78-124
87	mp-Xylene	40.0000	38.6191	96.55	80-121
89	Styrene	20.0000	21.2857	106.43	78-123
90	Bromoform	20.0000	15.8448	79.22	66-130
91	Isopropylbenzene	20.0000	21.3454	106.73	72-131
93	Bromobenzene	20.0000	19.2656	96.33	80-120
94	n-Propylbenzene	20.0000	21.3955	106.98	76-126
95	1,1,2,2-Tetrachlor	20.0000	20.1065	100.53	71-121
96	o-Chlorotoluene	20.0000	21.2057	106.03	79-122
97	1,3,5-Trimethylben	20.0000	22.2113	111.06	75-124
98	1,2,3-Trichloropro	20.0000	19.7104	98.55	73-122
M 100	1,2-Dichloroethene	40.0000	42.3391	105.85	78-123
99	trans-1,4-Dichloro	20.0000	18.7956	93.98	43-140

Data File: 316102578.D Page 7
Report Date: 26-Oct-2016 10:59

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	101 p-Chlorotoluene	20.0000	21.0258	105.13	78-122
	102 tert-Butylbenzene	20.0000	21.0199	105.10	78-124
	103 Pentachloroethane	20.0000	20.4208	102.10	69-133
	104 1,2,4-Trimethylben	20.0000	21.8514	109.26	76-124
	105 sec-Butylbenzene	20.0000	22.0673	110.34	77-126
	106 p-Isopropyltoluene	20.0000	21.3636	106.82	77-127
	107 1,3-Dichlorobenzen	20.0000	20.7721	103.86	80-119
	109 1,4-Dichlorobenzen	20.0000	21.1829	105.91	79-118
	110 Benzyl Chloride	20.0000	11.2430	56.21	42-138
	111 n-Butylbenzene	20.0000	20.6498	103.25	75-128
	112 Hexachloroethane	20.0000	18.4996	92.50	72-134
	113 1,2-Dichlorobenzen	20.0000	21.0240	105.12	80-119
	114 1,2-Dibromo-3-chlo	20.0000	19.0386	95.19	62-128
	115 Nitrobenzene	200.000	265.551	132.78	23-139
	116 Hexachlorobutadien	20.0000	21.4480	107.24	66-134
	117 1,2,4-Trichloroben	20.0000	18.6484	93.24	69-130
	118 Naphthalene	20.0000	15.4948	77.47	61-128
M	120 1,3-Dichloropropen	40.0000	36.6425	91.61	75-124
	119 1,2,3-Trichloroben	20.0000	17.9404	89.70	69-129
M	121 TOTAL XYLENES	60.0000	58.0924	96.82	79-121

	SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$	41 Dibromofluorometha	30.0000	25.5021	85.01	80-119
$	51 1,2-Dichloroethane	30.0000	32.7412	109.14	81-118
$	68 Toluene-d8	30.0000	26.4095	88.03*	89-112
$	92 4-Bromofluorobenze	30.0000	28.3908	94.64	85-114

Data File: 316102578.D Page 8
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2429374
Sample Location:
Sample Date: 20-OCT-2016
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41258 D8260W

Client SDG: 3161025A.b
Client Smp ID: 2184163001MSD
Sample Point:
Date Received: 21-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: CJG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	18.6655	
74-87-3	Chloromethane	21.7576	
75-01-4	Vinyl Chloride	21.1744	
74-83-9	Bromomethane	20.2950	
75-00-3	Chloroethane	22.2087	
109-66-0	Pentane	33.2362	
75-69-4	Trichlorofluoromethane	21.6670	
75-43-4	Dichlorofluoromethane	22.0351	
60-29-7	Ethyl Ether	19.7117	
75-35-4	1,1-Dichloroethene	21.8256	
75-15-0	Carbon Disulfide	19.3925	
76-13-1	Freon 113	23.2265	
74-88-4	Iodomethane	20.8827	
107-02-8	Acrolein	230.851	
107-05-1	3-Chloro-1-propene	25.5171	
67-63-0	Isopropyl Alcohol	165.170	
75-09-2	Methylene Chloride	20.5717	
67-64-1	Acetone	110.615	
79-20-9	Methyl acetate	16.9467	
156-60-5	trans-1,2-Dichloroethene	21.6032	
110-54-3	Hexane	24.4735	
1634-04-4	Methyl t-Butyl Ether	20.1023	
75-65-0	tert.- Butyl Alcohol	115.664	
75-05-8	Acetonitrile	137.029	
108-20-3	Diisopropyl ether	22.5977	
126-99-8	Chloroprene	24.5737	
75-34-3	1,1-Dichloroethane	20.9931	
107-13-1	Acrylonitrile	113.748	
71-23-8	n-Propanol	253.433	
637-92-3	Ethyl tert-butyl ether	21.0426	
108-05-4	Vinyl acetate	13.4068	
156-59-2	cis-1,2-Dichloroethene	20.7359	
594-20-7	2,2-Dichloropropane	16.9084	
540-59-0	1,2-Dichloroethene, Total	42.3391	
74-97-5	Bromochloromethane	20.2511	
110-82-7	Cyclohexane	23.4104	
67-66-3	Chloroform	20.6997	
141-78-6	Ethyl acetate	18.4880	
96-33-3	Methyl acrylate	20.8254	
56-23-5	Carbon Tetrachloride	20.7341	
109-99-9	Tetrahydrofuran	112.786	
71-55-6	1,1,1-Trichloroethane	21.0058	

Data File: 316102578.D Page 9
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2429374
Sample Location:
Sample Date: 20-OCT-2016
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41258 D8260W

Client SDG: 3161025A.b
Client Smp ID: 2184163001MSD
Sample Point:
Date Received: 21-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: CJG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
78-93-3	2-Butanone	107.868	
563-58-6	1,1-Dichloropropene	22.3541	
109-69-3	1-Chlorobutane	25.9746	
142-82-5	Heptane	24.1160	
107-12-0	Propionitrile	111.759	
71-43-2	Benzene	20.6051	
126-98-7	Methacrylonitrile	20.9862	
994-05-8	tert-amyl methyl Ether	19.8572	
78-83-1	Isobutyl alcohol	319.184	
107-06-2	1,2-Dichloroethane	20.6549	
75-85-4	tert-Amyl Alcohol	109.180	
107-39-1	Diisobutylene	18.0217	
79-01-6	Trichloroethene	20.1092	
108-87-2	Methyl cyclohexane	21.6637	
919-94-8	tert-Amyl Ethylether	20.4186	
74-95-3	Dibromomethane	19.4932	
78-87-5	1,2-Dichloropropane	21.2353	
75-27-4	Bromodichloromethane	20.0531	
80-62-6	Methyl methacrylate	21.4530	
123-91-1	1,4-Dioxane	996.359	
110-75-8	2-Chloroethylvinyl ether	0.115784	J
10061-01-5	cis-1,3-Dichloropropene	17.5665	
111-65-9	Octane	19.6926	
108-88-3	Toluene	19.8422	
107-14-2	Chloroacetonitrile	102.736	
79-46-9	2-Nitropropane	85.6972	
513-88-2	1,1-Dichloro-2-propanone	86.7988	
108-10-1	4-Methyl-2-Pentanone(MIBK)	108.897	
10061-02-6	trans-1,3-Dichloropropene	19.0760	
127-18-4	Tetrachloroethene	22.5579	
97-63-2	Ethyl methacrylate	20.4322	
79-00-5	1,1,2-Trichloroethane	18.7707	
124-48-1	Chlorodibromomethane	17.2853	
142-28-9	1,3-Dichloropropane	18.7730	
106-93-4	1,2-Dibromoethane	18.5067	
591-78-6	2-Hexanone	108.171	
544-10-5	1-Chlorohexane	20.3263	
100-41-4	Ethylbenzene	18.6906	
108-90-7	Chlorobenzene	18.1770	
630-20-6	1,1,1,2-Tetrachloroethane	19.5507	
108383/106423	m-p-Xylene	38.6191	
542-75-6	1,3-Dichloropropene, Total	36.6425	

Data File: 316102578.D Page 10
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2429374
Sample Location:
Sample Date: 20-OCT-2016
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41258 D8260W

Client SDG: 3161025A.b
Client Smp ID: 2184163001MSD
Sample Point:
Date Received: 21-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: CJG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
95-47-6	o-Xylene	19.4734	
100-42-5	Styrene	21.2857	
75-25-2	Bromoform	15.8448	
98-82-8	Isopropylbenzene	21.3454	
1330-20-7	TOTAL XYLENES	58.0924	
103-65-1	n-Propylbenzene	21.3955	
108-86-1	Bromobenzene	19.2656	
79-34-5	1,1,2,2-Tetrachloroethane	20.1065	
108-67-8	1,3,5-Trimethylbenzene	22.2113	
95-49-8	o-Chlorotoluene	21.2057	
96-18-4	1,2,3-Trichloropropane	19.7104	
110-57-6	trans-1,4-Dichloro-2-butene	18.7956	
106-43-4	p-Chlorotoluene	21.0258	
98-06-6	tert-Butylbenzene	21.0199	
76-01-7	Pentachloroethane	20.4208	
95-63-6	1,2,4-Trimethylbenzene	21.8514	
135-98-8	sec-Butylbenzene	22.0673	
99-87-6	p-Isopropyltoluene	21.3636	
541-73-1	1,3-Dichlorobenzene	20.7721	
106-46-7	1,4-Dichlorobenzene	21.1829	
104-51-8	n-Butylbenzene	20.6498	
100-44-7	Benzyl Chloride	11.2430	
67-72-1	Hexachloroethane	18.4996	
95-50-1	1,2-Dichlorobenzene	21.0240	
96-12-8	1,2-Dibromo-3-chloropropane	19.0386	
98-95-3	Nitrobenzene	265.551	
87-68-3	Hexachlorobutadiene	21.4480	
120-82-1	1,2,4-Trichlorobenzene	18.6484	
91-20-3	Naphthalene	15.4948	
87-61-6	1,2,3-Trichlorobenzene	17.9404	
1868-53-7	Dibromofluoromethane	25.5021	
17060-07-0	1,2-Dichloroethane-d4	32.7412	
2037-26-5	Toluene-d8	26.4095	
460-00-4	4-Bromofluorobenzene	28.3908	

Data File: 316102578.D Page 11
Report Date: 26-Oct-2016 10:59

ALS Environmental Services

TENTATIVELY IDENTIFIED COMPOUNDS

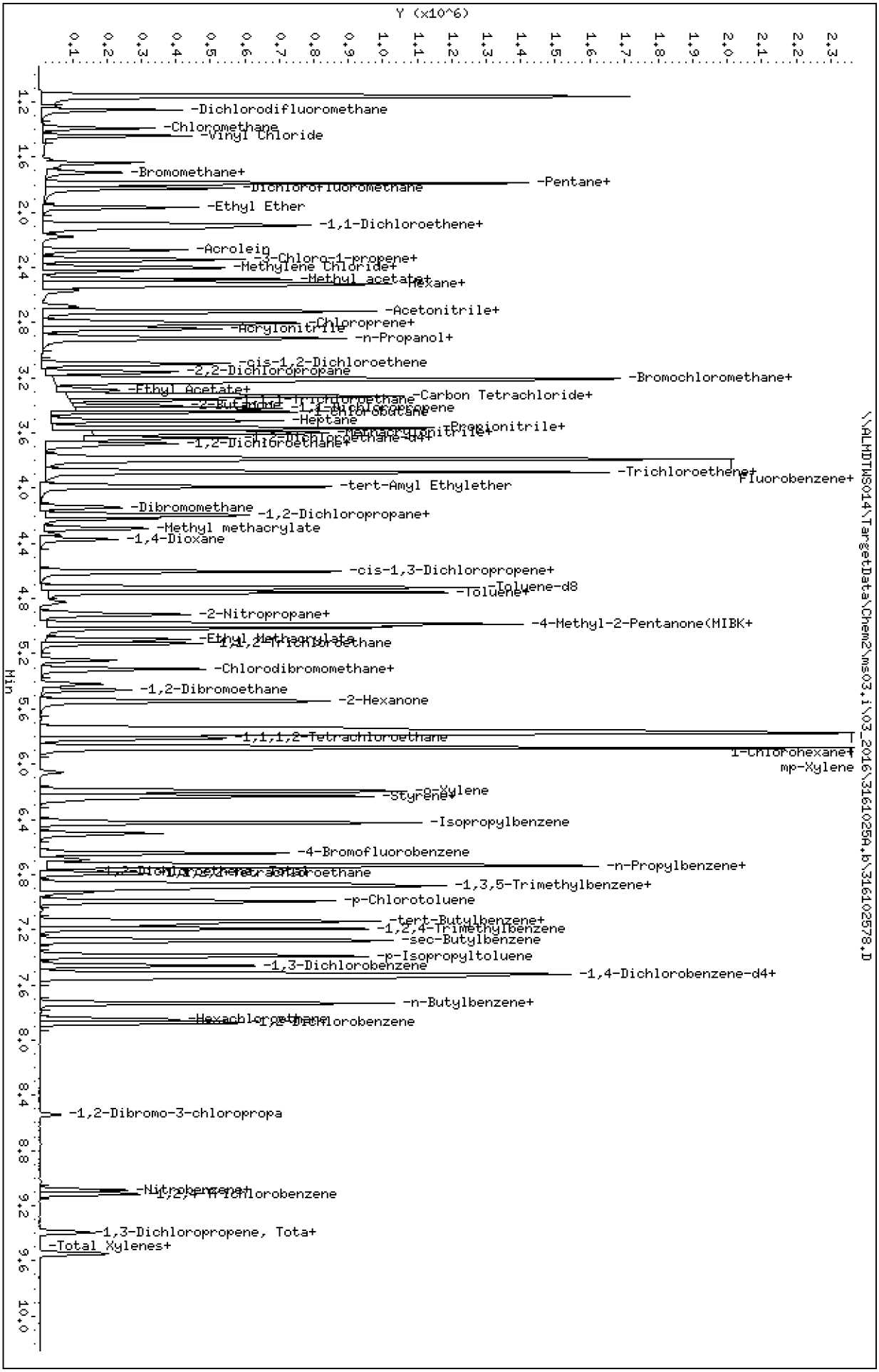
Client Name:
Lab Smp Id: 2429374
Operator : CJG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 26-OCT-2016 07:52

Client SDG: 3161025A.b
Client Smp ID: 2184163001MSD
Sample Date: 20-OCT-2016
Sample Point:
Date Received:21-OCT-2016 00:00
Level: LOW

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	1.161	23.0731	_J__



Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3161025?8.D
Date : 26-OCT-2016 07:52
Client ID: 2184163001MSD
Sample Info: 2429374;;1;3;;MSD;1;
Purge Volume: 5.0
Column phase: DB-VRX

\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3161025?8.D
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 13

Date : 26-OCT-2016 07:52

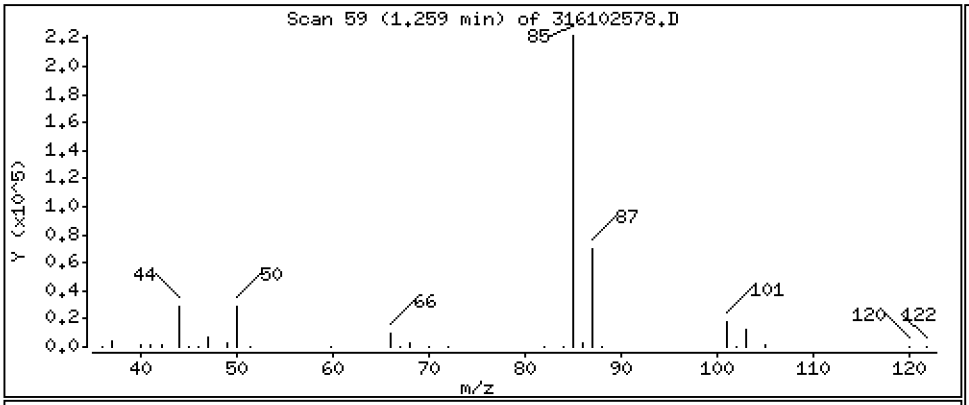
Client ID: 2184163001MSD Instrument: ms03.i

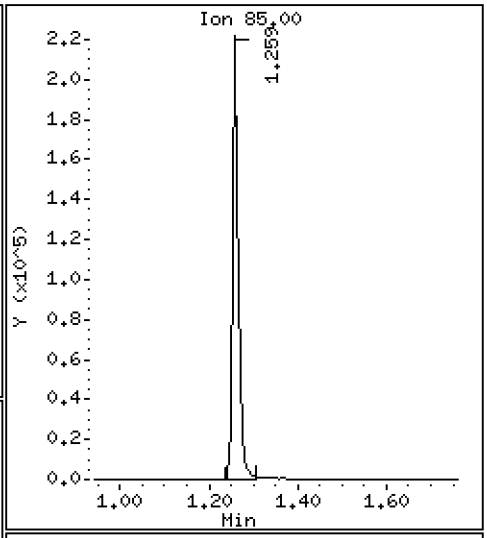
Sample Info: 2429374;;1;3;;MSD;1;

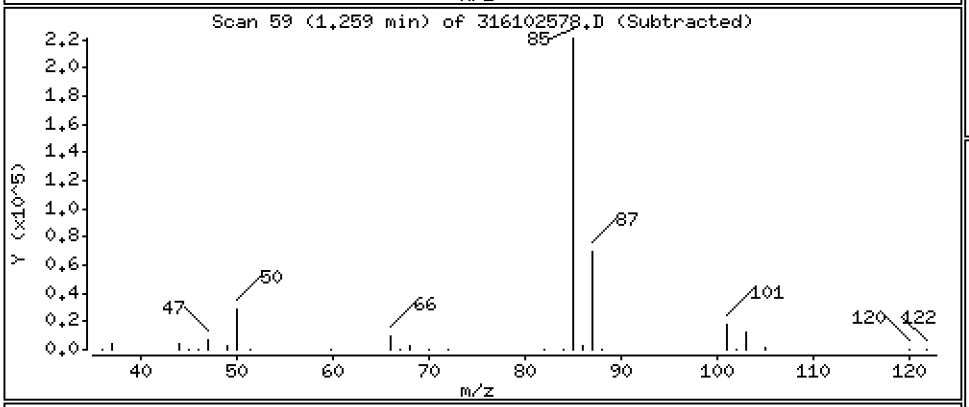
Purge Volume: 5.0 Operator: CJG

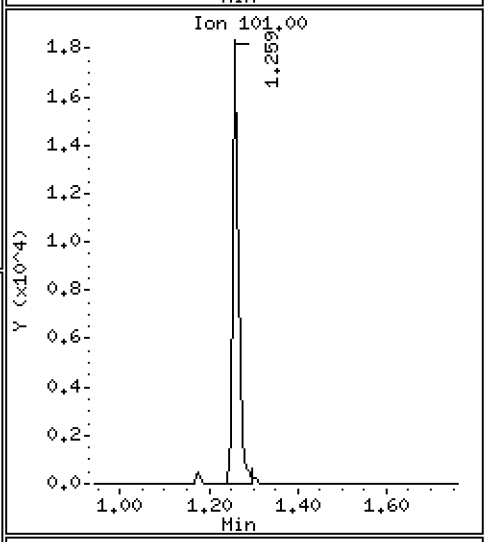
Column phase: DB-VRX Column diameter: 0.25

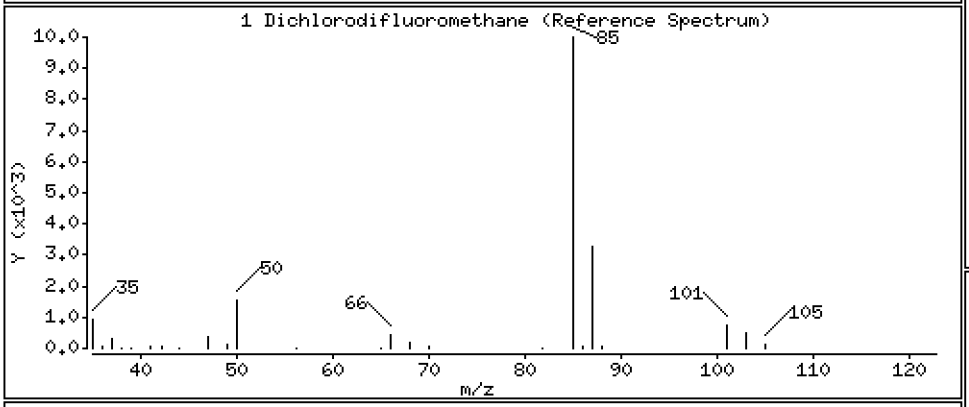
1 Dichlorodifluoromethane Concentration: 18.6655 ug/L

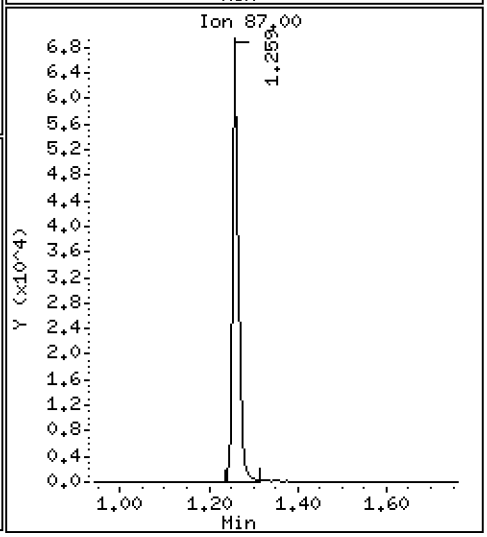


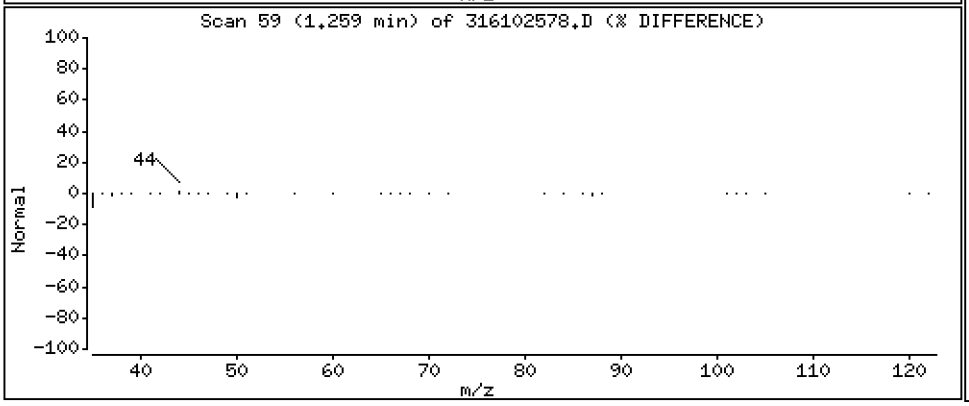












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 14

Date : 26-OCT-2016 07:52

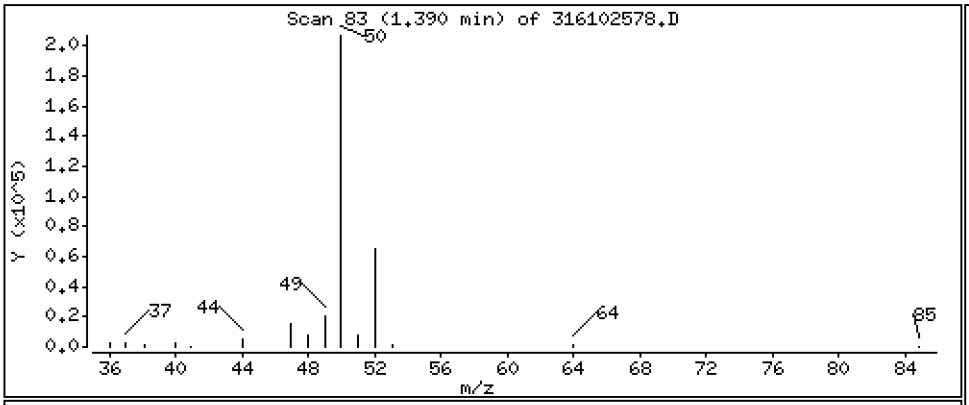
Client ID: 2184163001MSD Instrument: ms03.i

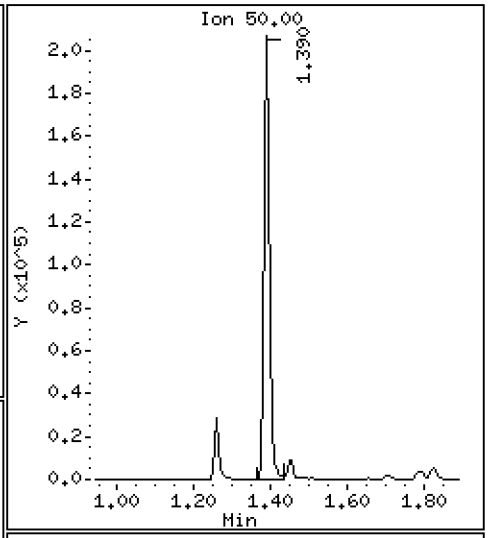
Sample Info: 2429374;;1;3;;MSD;1;

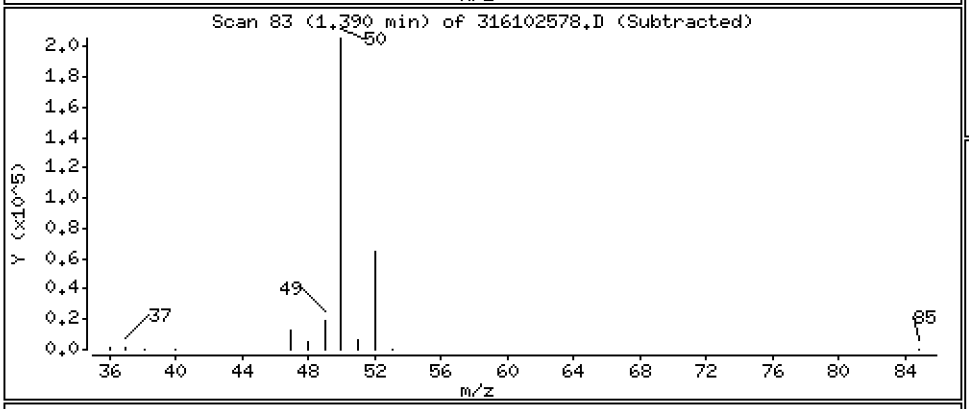
Purge Volume: 5.0 Operator: CJG

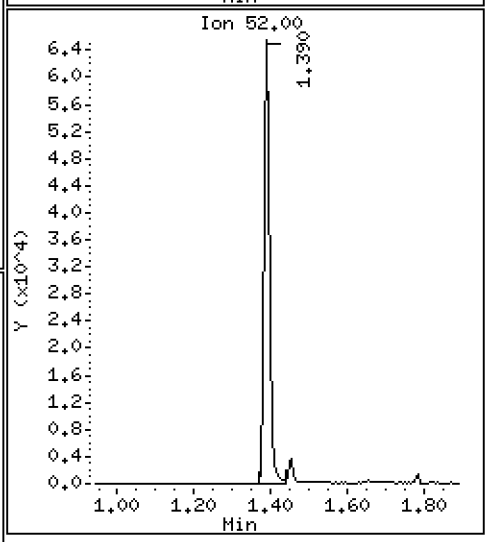
Column phase: DB-VRX Column diameter: 0.25

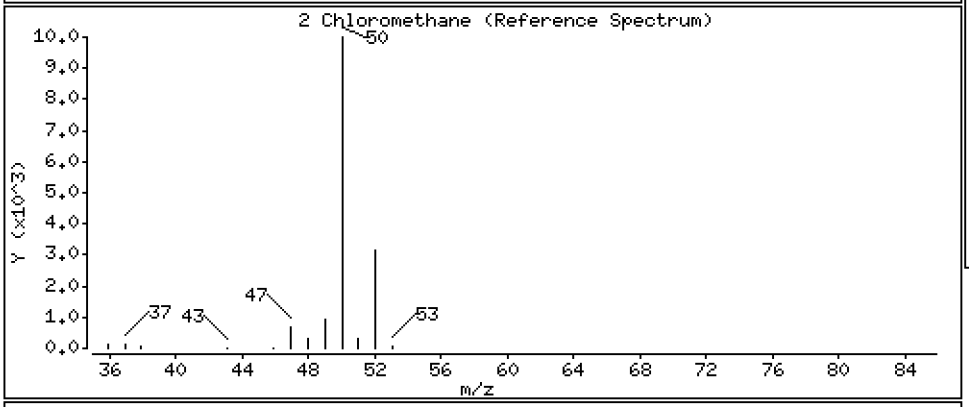
2 Chloromethane Concentration: 21.7576 ug/L

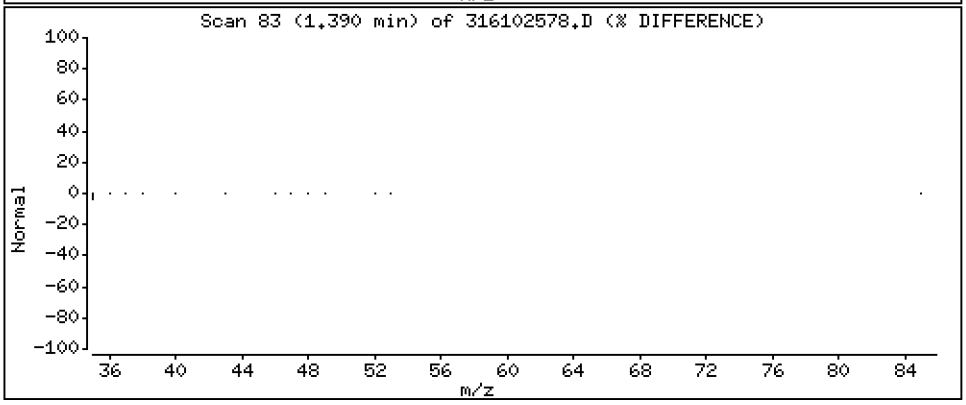












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 15

Date : 26-OCT-2016 07:52

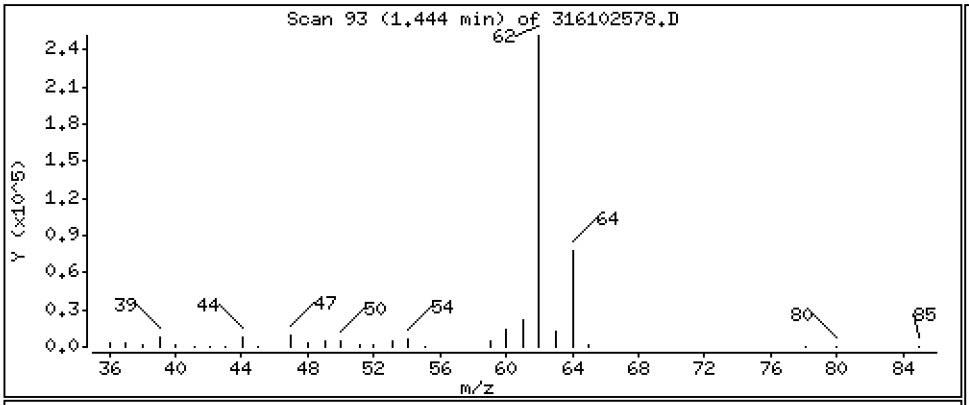
Client ID: 2184163001MSD Instrument: ms03.i

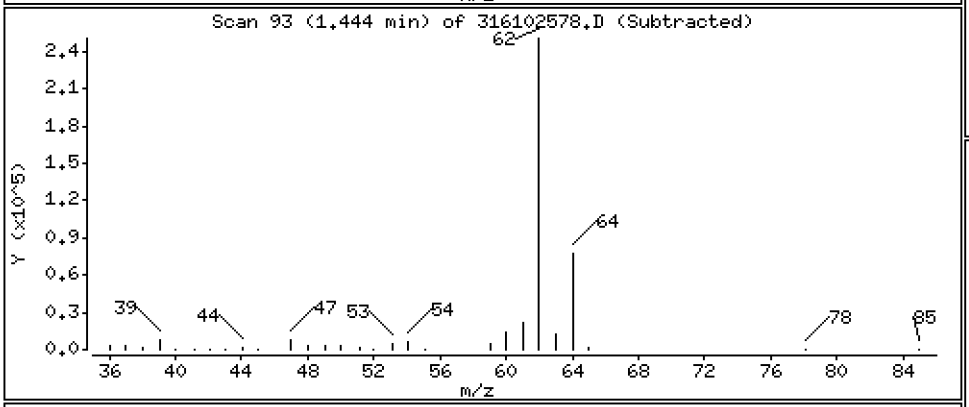
Sample Info: 2429374;;1;3;;MSD;1;

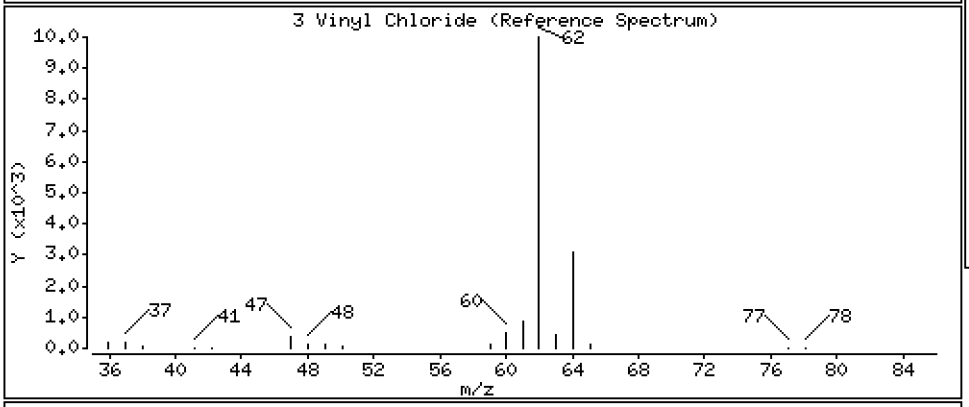
Purge Volume: 5.0 Operator: CJG

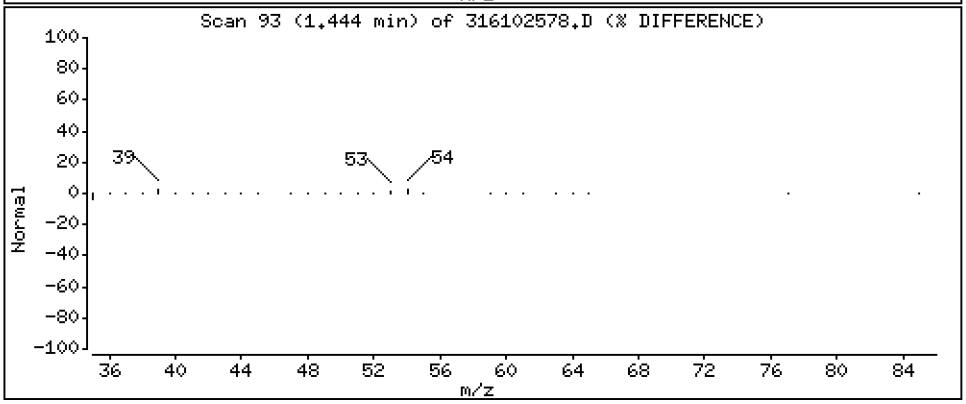
Column phase: DB-VRX Column diameter: 0.25

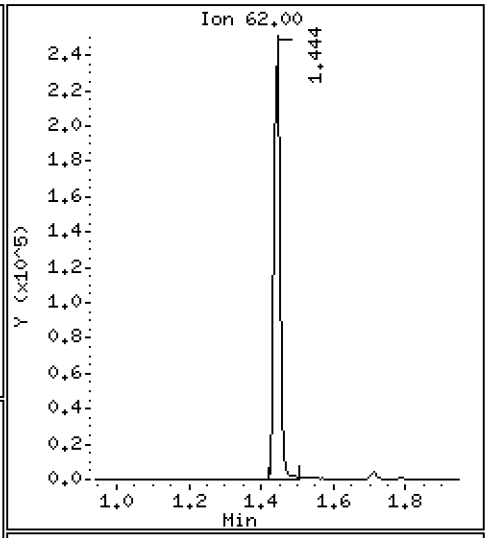
3 Vinyl Chloride Concentration: 21.1744 ug/L

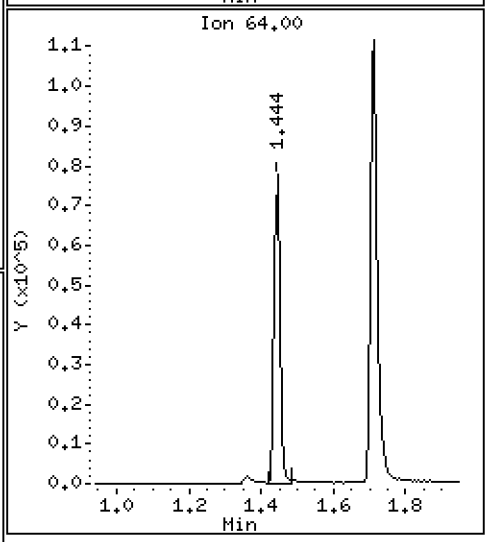












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 16

Date : 26-OCT-2016 07:52

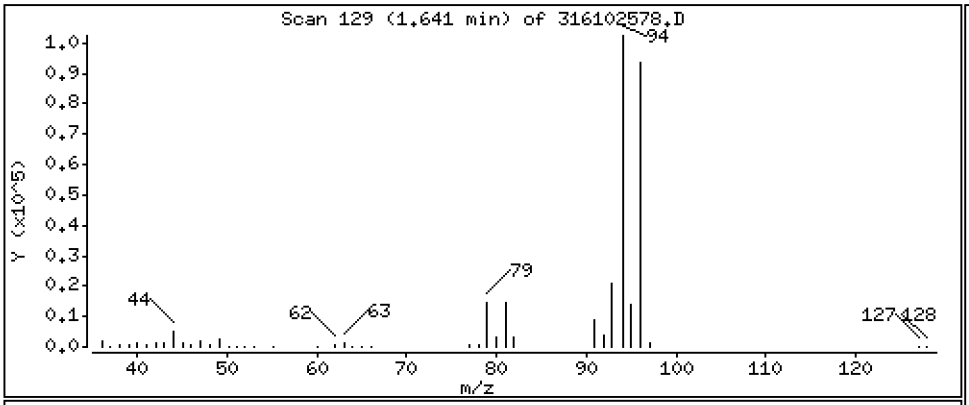
Client ID: 2184163001MSD Instrument: ms03.i

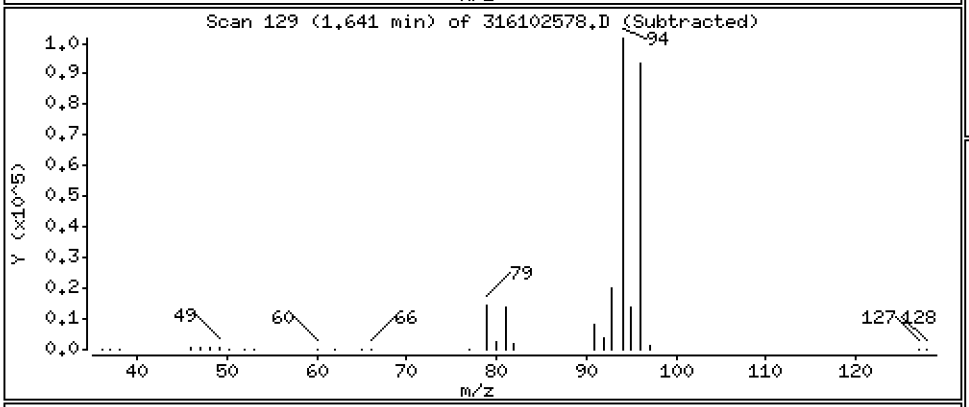
Sample Info: 2429374;;1;3;;MSD;1;

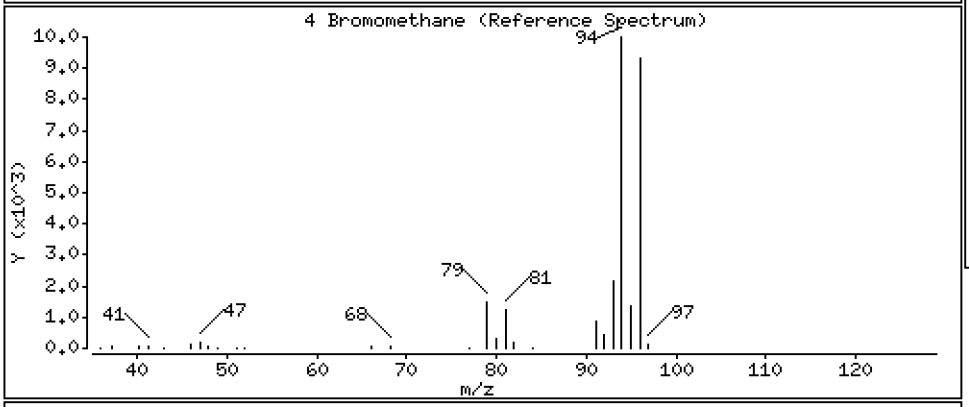
Purge Volume: 5.0 Operator: CJG

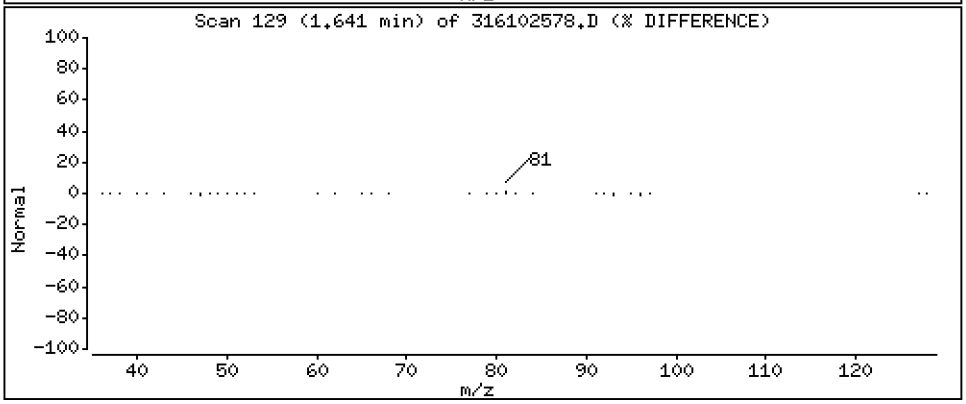
Column phase: DB-VRX Column diameter: 0.25

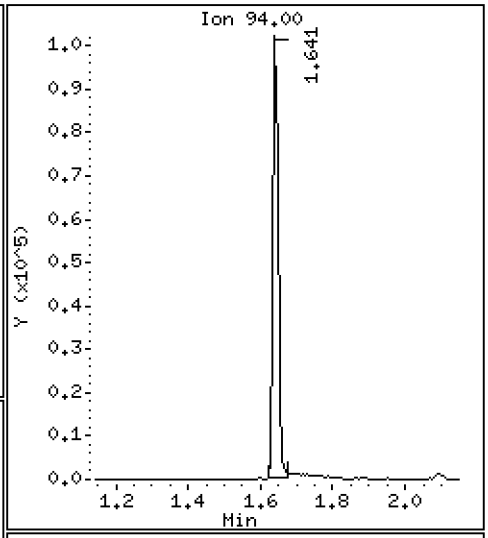
4 Bromomethane Concentration: 20.2950 ug/L

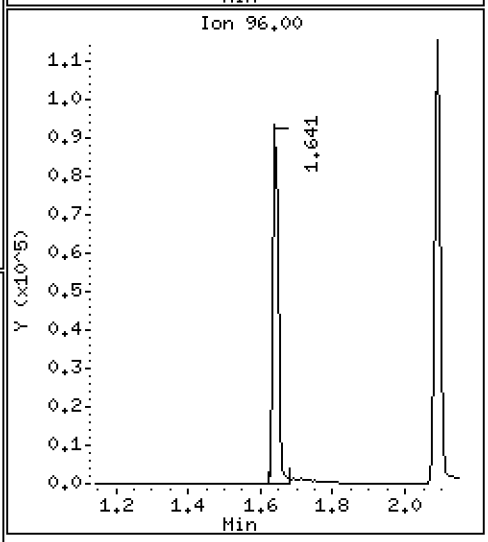












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 17

Date : 26-OCT-2016 07:52

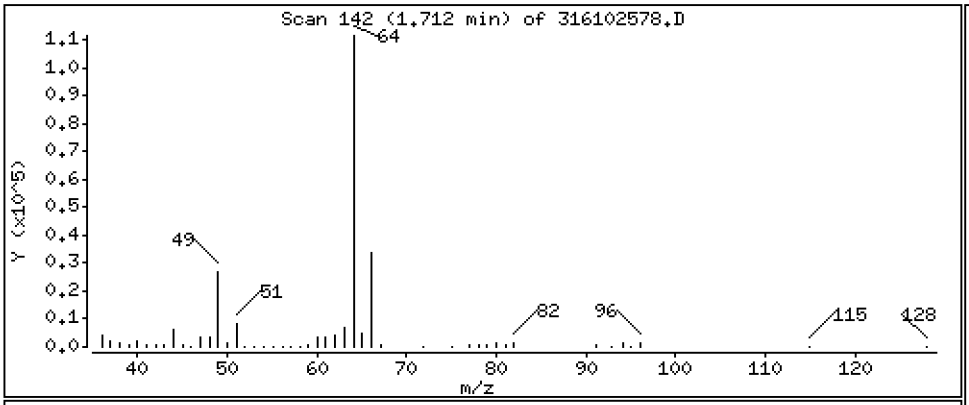
Client ID: 2184163001MSD Instrument: ms03.i

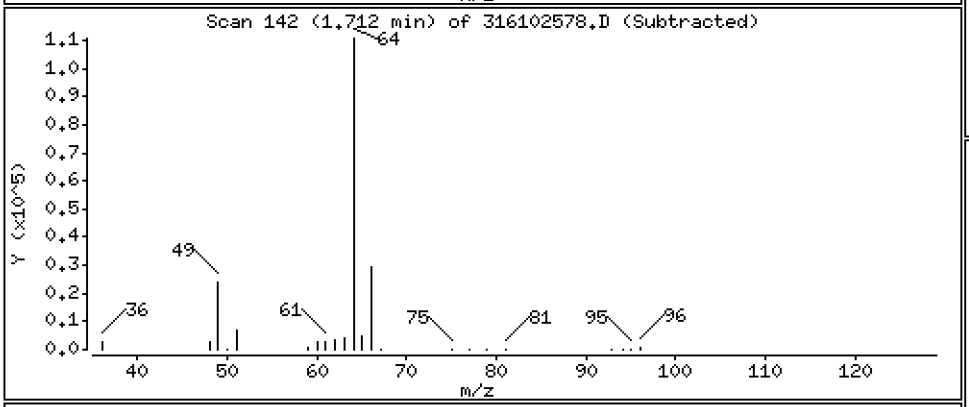
Sample Info: 2429374;;1;3;;MSD;1;

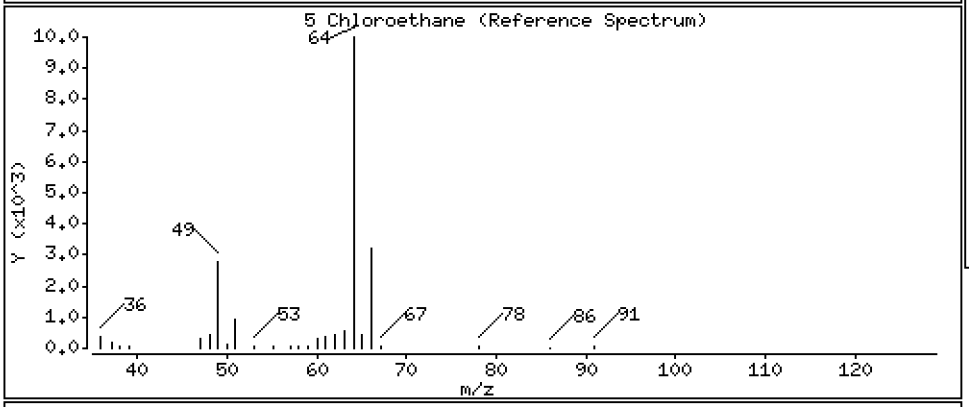
Purge Volume: 5.0 Operator: CJG

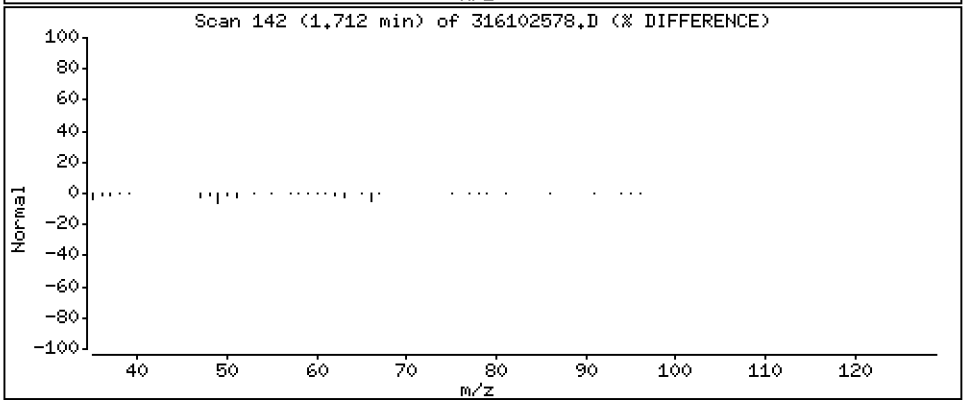
Column phase: DB-VRX Column diameter: 0.25

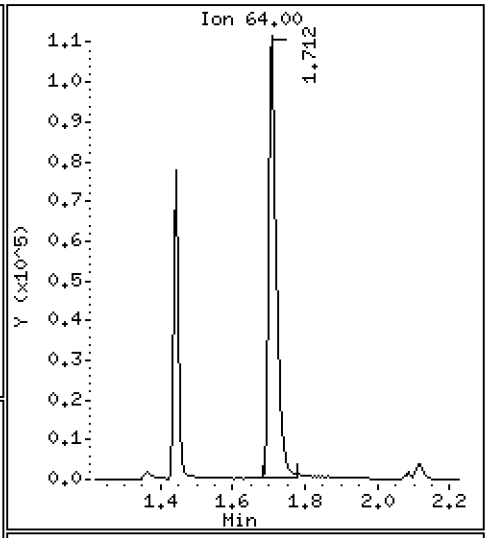
5 Chloroethane Concentration: 22.2087 ug/L

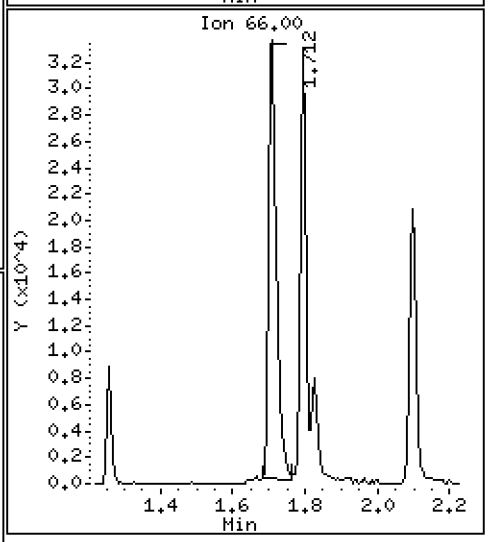












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 18

Date : 26-OCT-2016 07:52

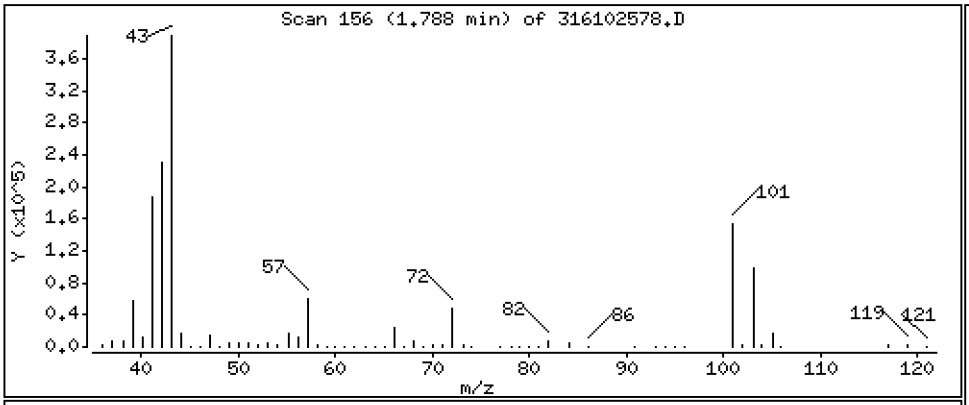
Client ID: 2184163001MSD Instrument: ms03.i

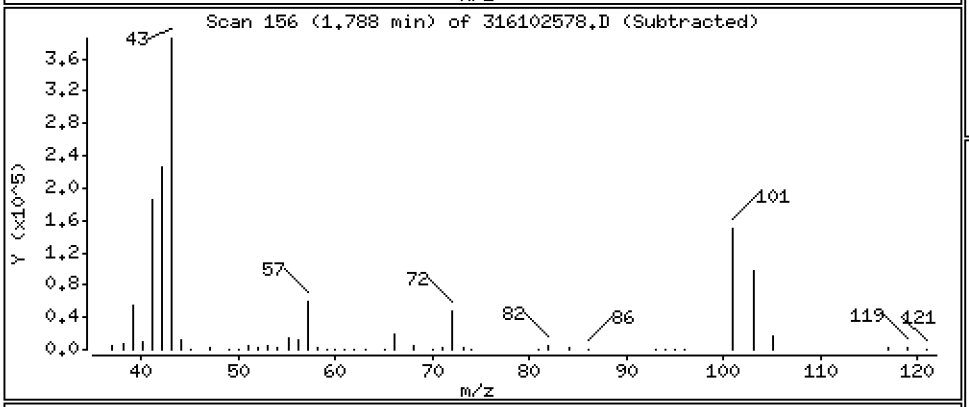
Sample Info: 2429374;;1;3;;MSD;1;

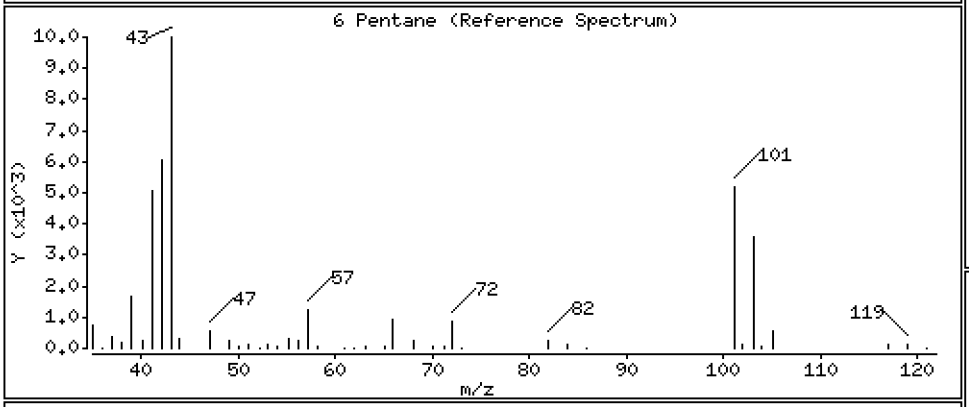
Purge Volume: 5.0 Operator: CJG

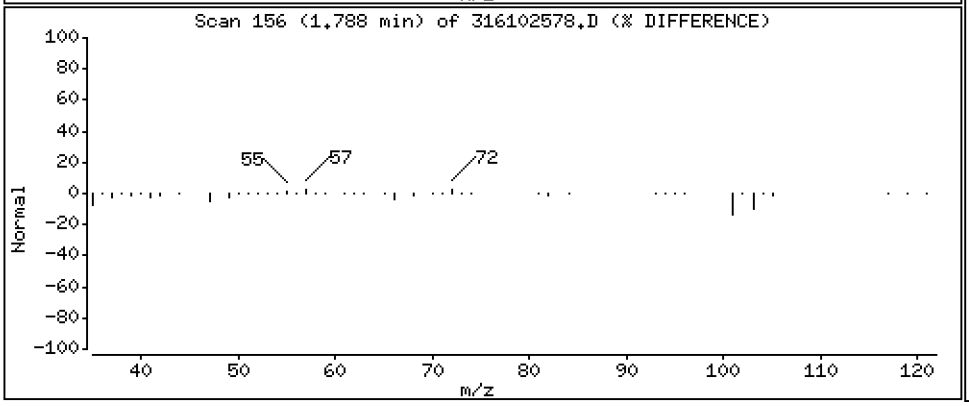
Column phase: DB-VRX Column diameter: 0.25

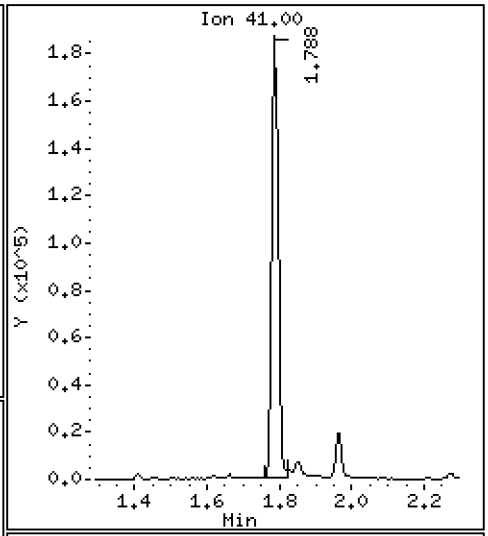
6 Pentane Concentration: 33.2362 ug/L

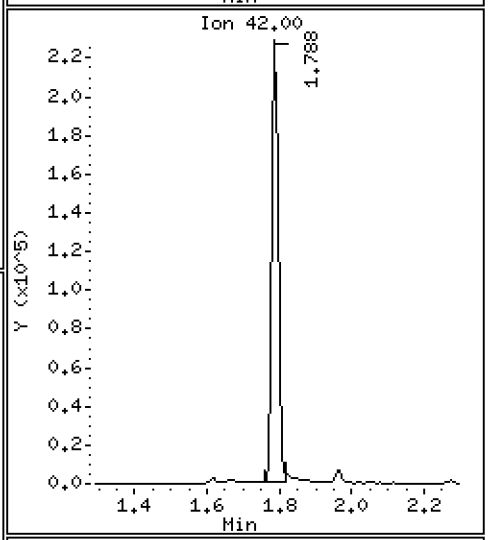


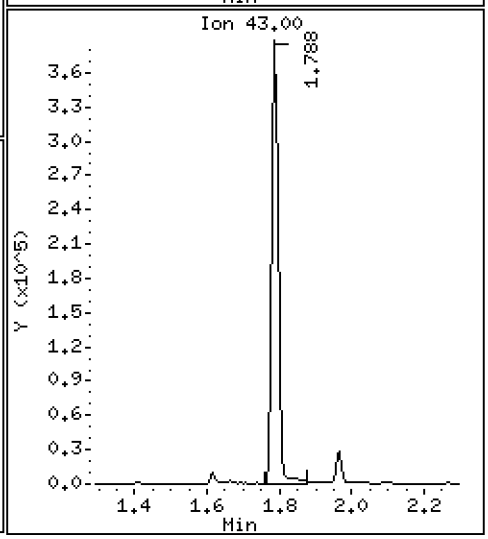












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 19

Date : 26-OCT-2016 07:52

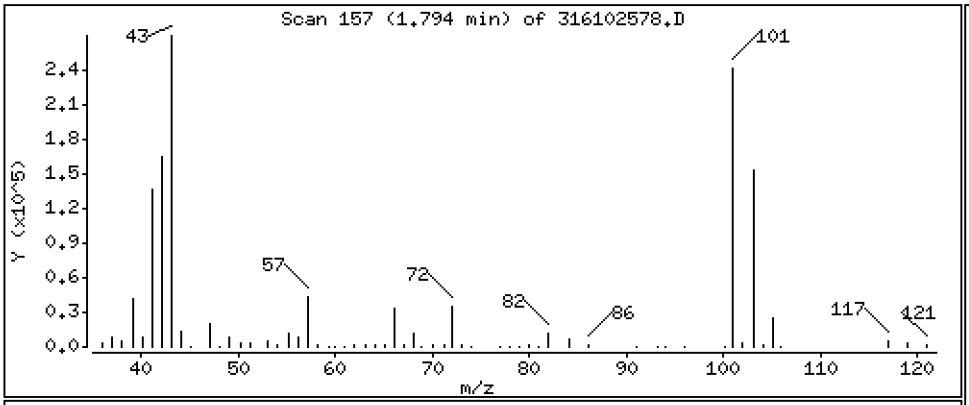
Client ID: 2184163001MSD Instrument: ms03.i

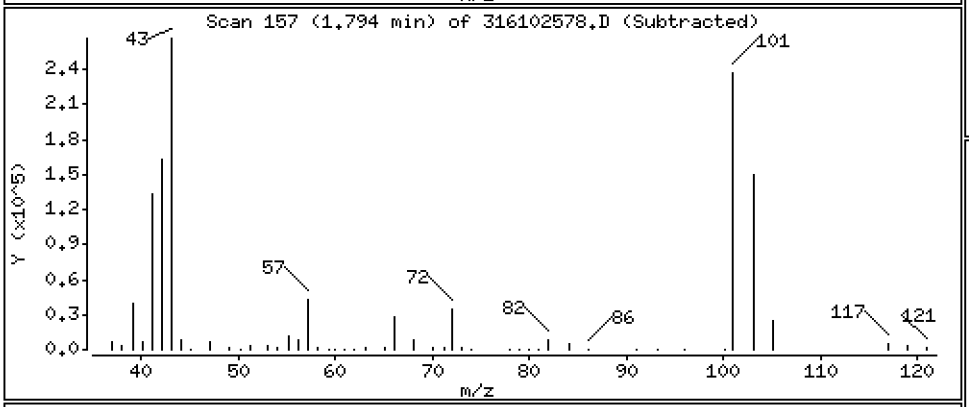
Sample Info: 2429374;;1;3;;MSD;1;

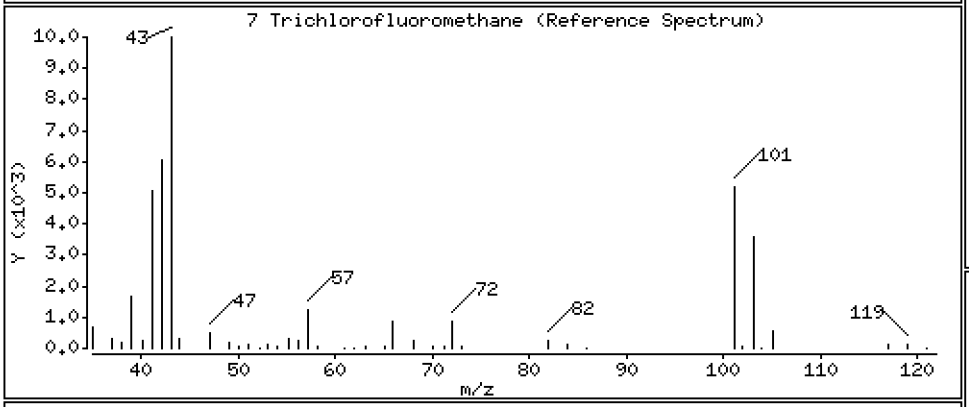
Purge Volume: 5.0 Operator: CJG

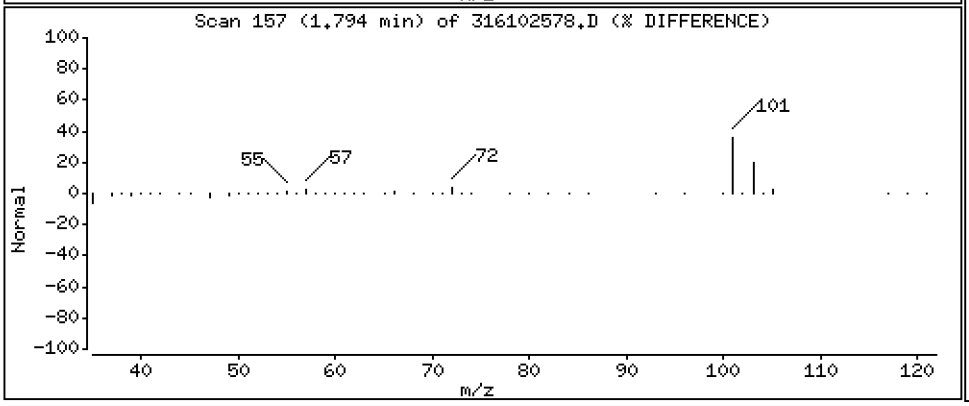
Column phase: DB-VRX Column diameter: 0.25

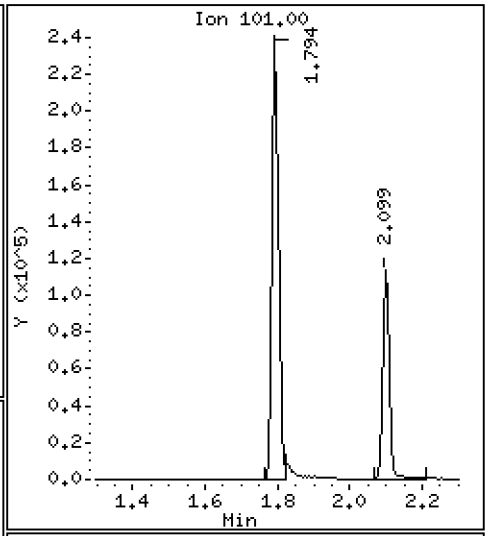
7 Trichlorofluoromethane Concentration: 21.6670 ug/L

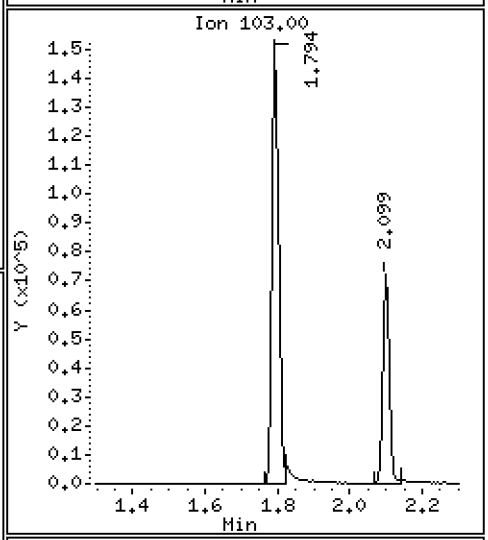


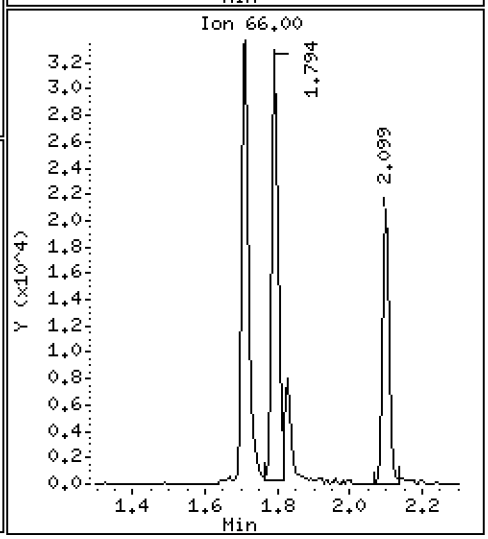












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 20

Date : 26-OCT-2016 07:52

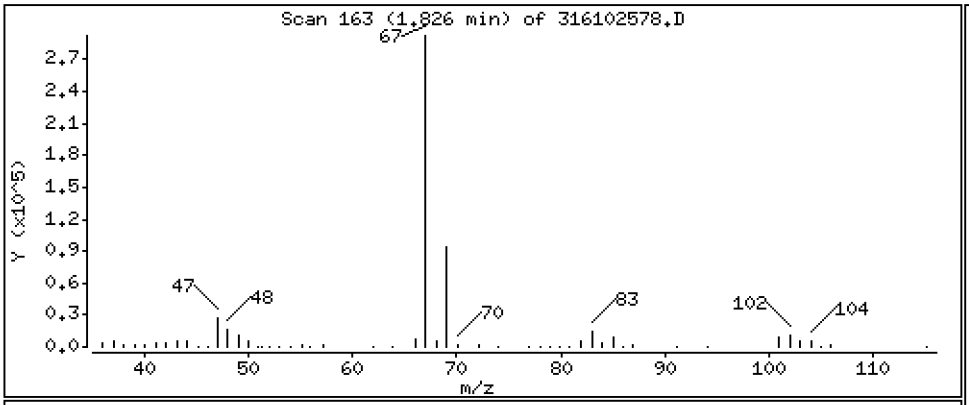
Client ID: 2184163001MSD Instrument: ms03.i

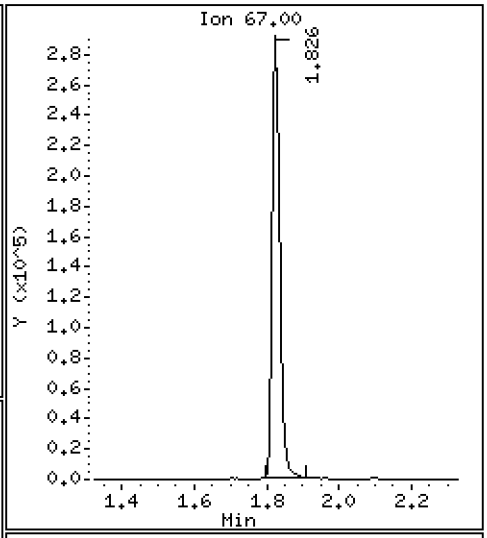
Sample Info: 2429374;;1;3;;MSD;1;

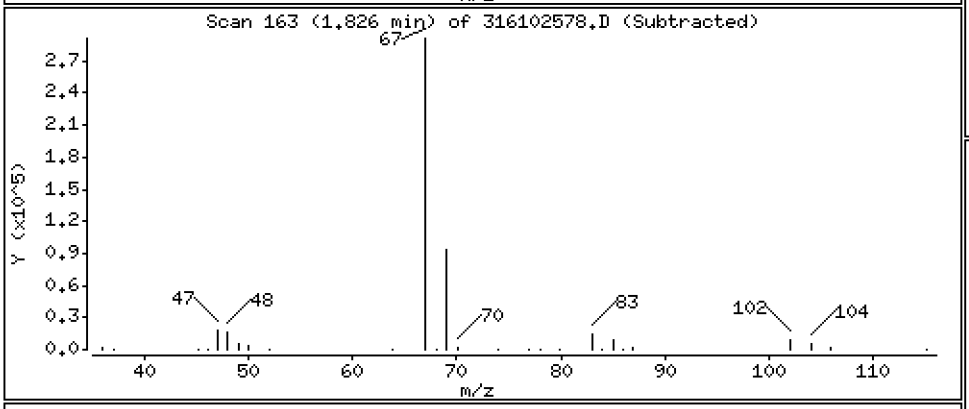
Purge Volume: 5.0 Operator: CJG

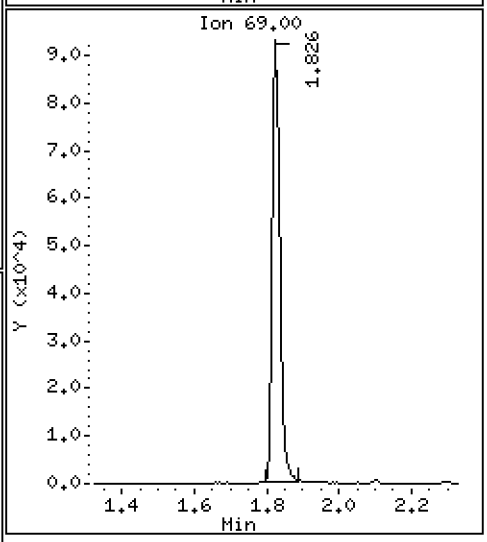
Column phase: DB-VRX Column diameter: 0.25

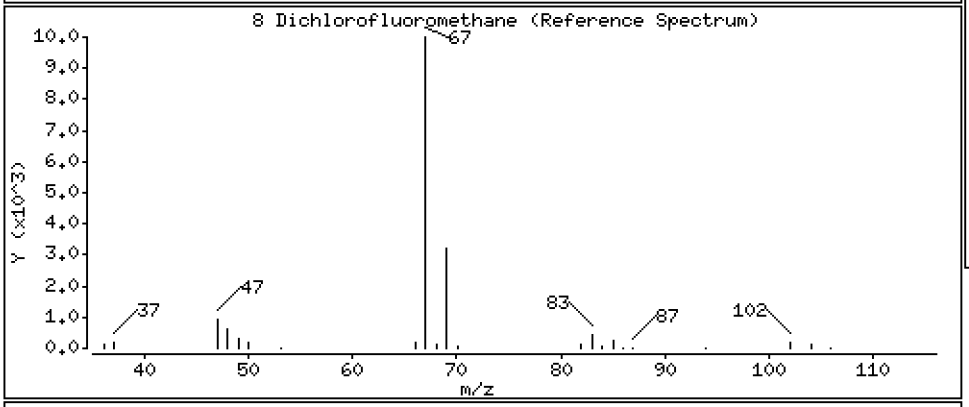
8 Dichlorofluoromethane Concentration: 22.0351 ug/L

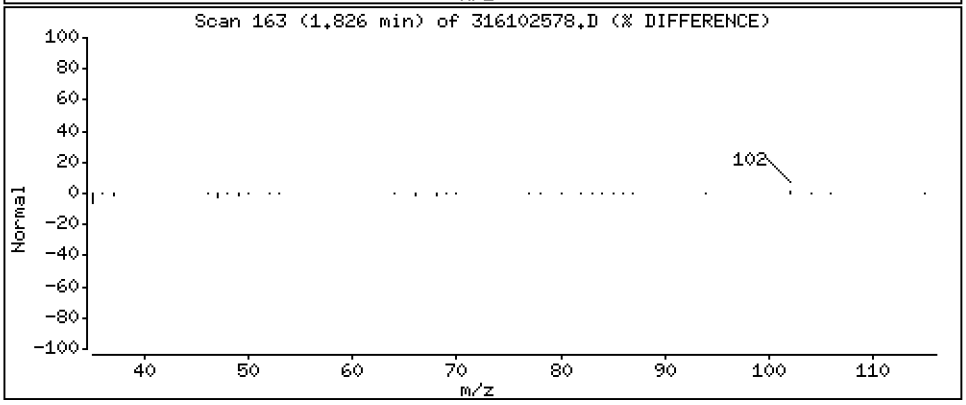












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 21

Date : 26-OCT-2016 07:52

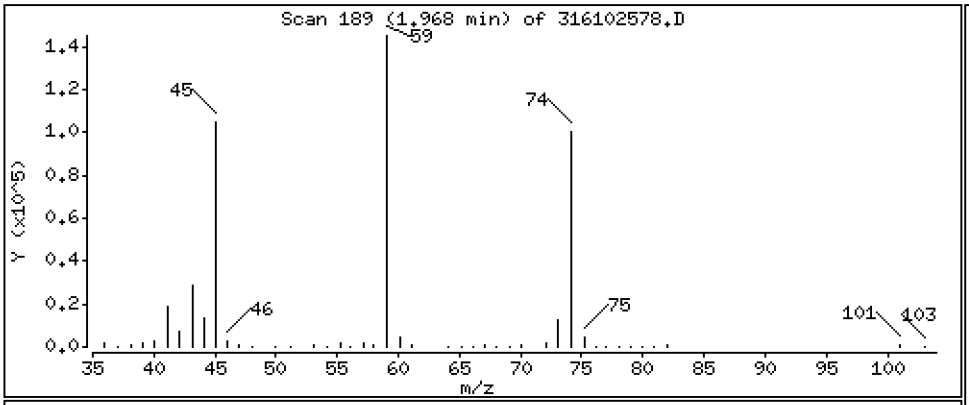
Client ID: 2184163001MSD Instrument: ms03.i

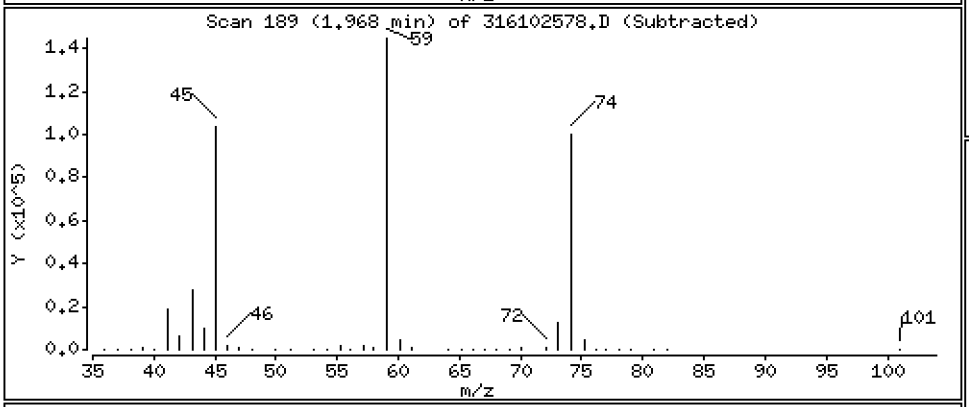
Sample Info: 2429374;;1;3;;MSD;1;

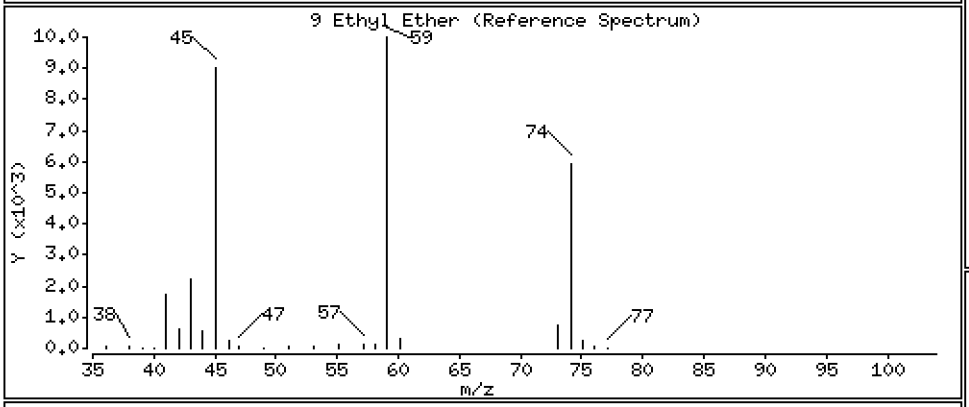
Purge Volume: 5.0 Operator: CJG

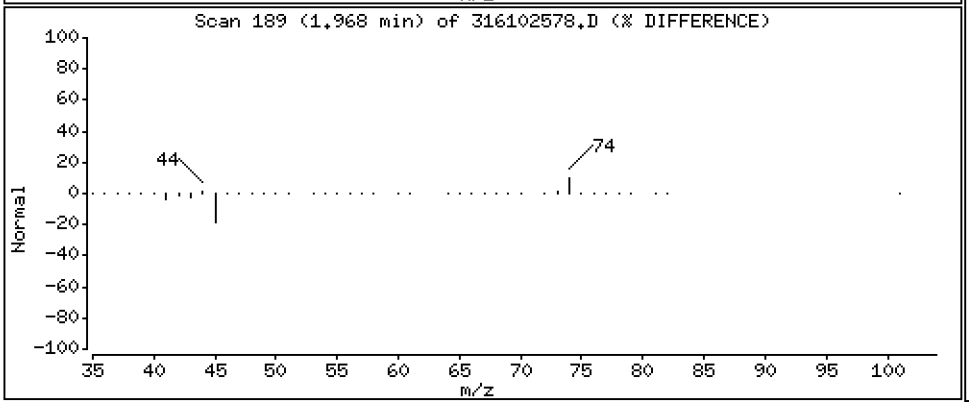
Column phase: DB-VRX Column diameter: 0.25

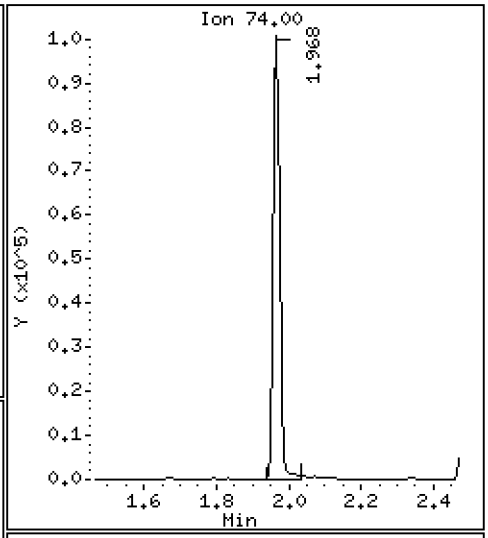
9 Ethyl Ether Concentration: 19.7117 ug/L

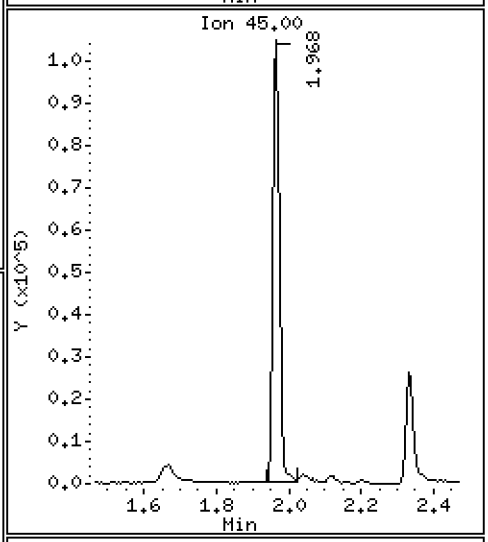


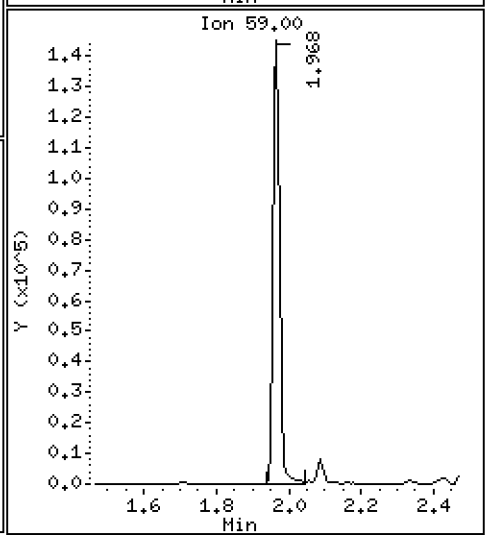












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 22

Date : 26-OCT-2016 07:52

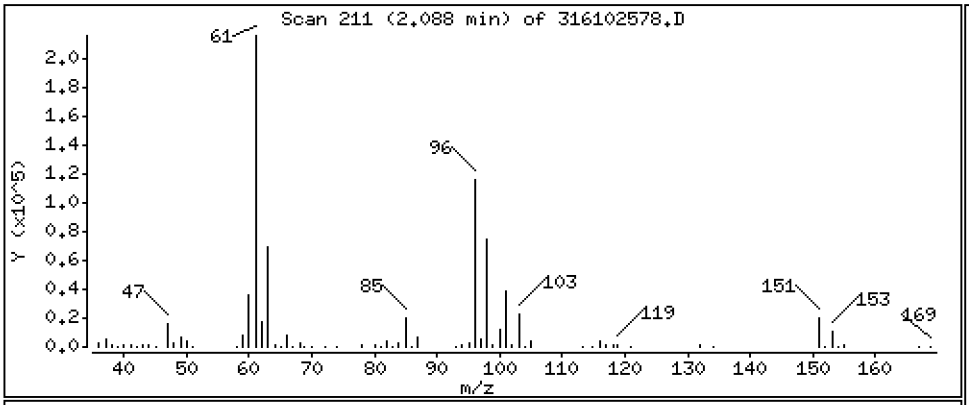
Client ID: 2184163001MSD Instrument: ms03.i

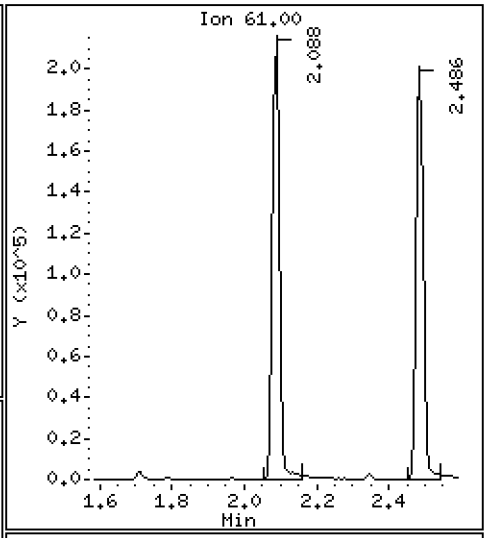
Sample Info: 2429374;;1;3;;MSD;1;

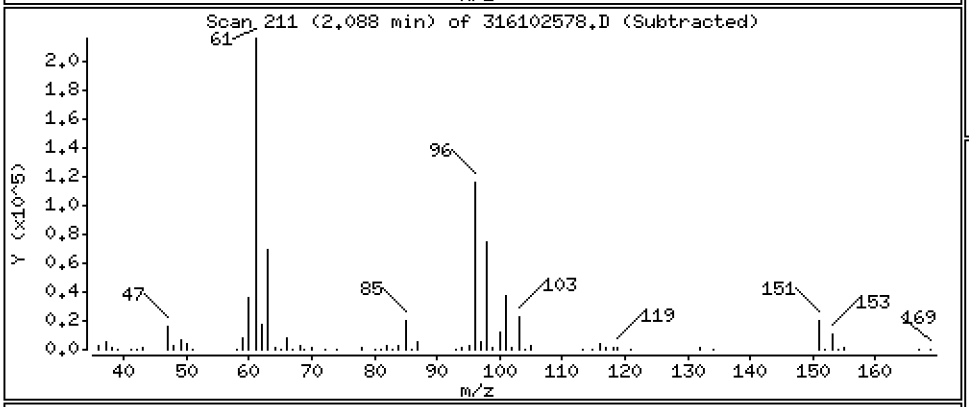
Purge Volume: 5.0 Operator: CJG

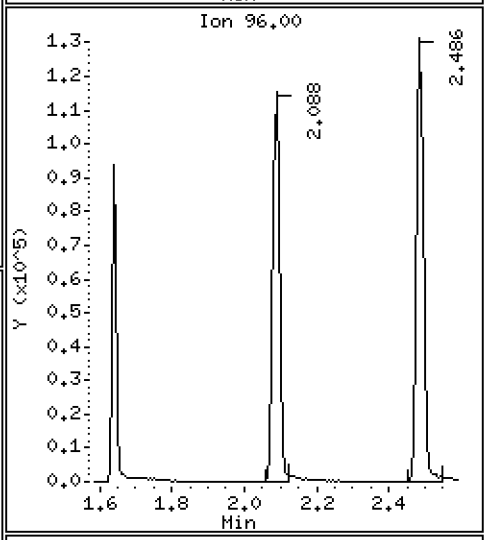
Column phase: DB-VRX Column diameter: 0.25

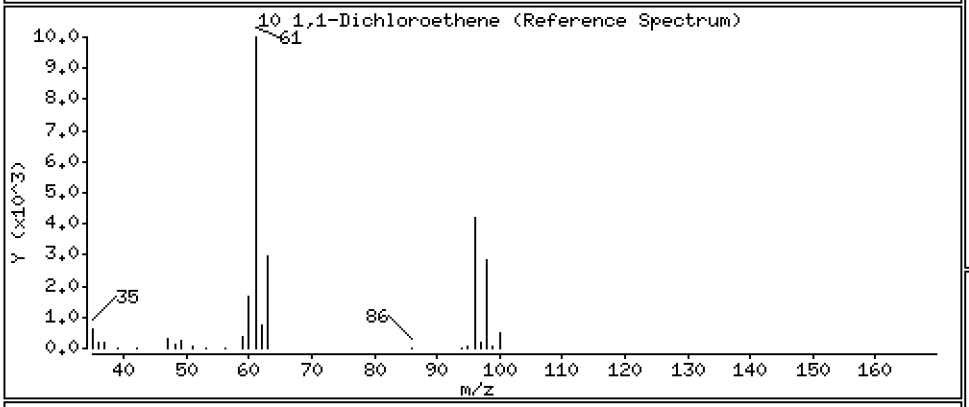
10 1,1-Dichloroethene Concentration: 21.8256 ug/L

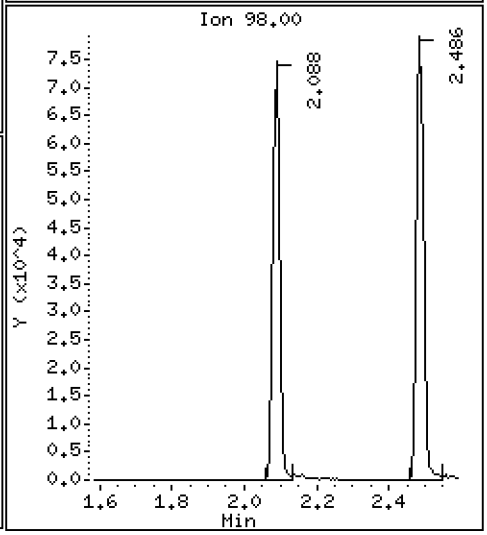


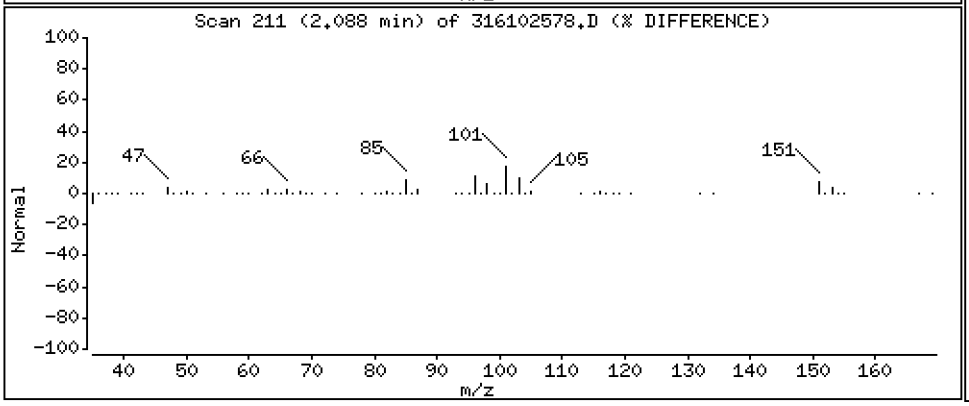












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 23

Date : 26-OCT-2016 07:52

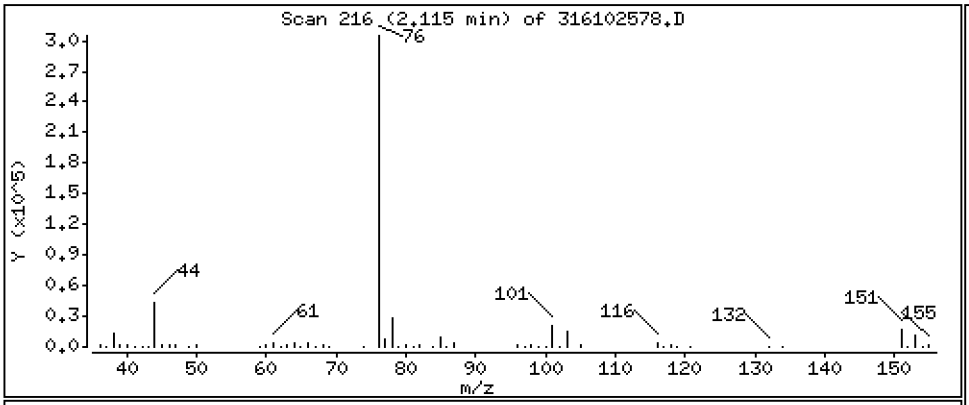
Client ID: 2184163001MSD Instrument: ms03.i

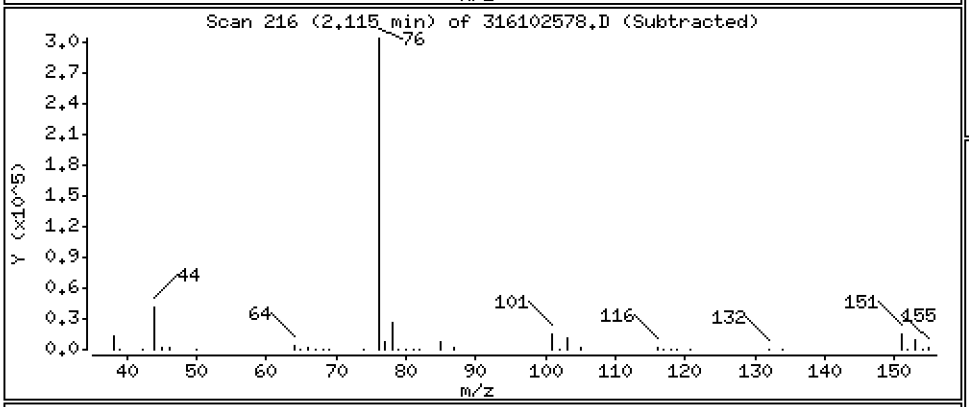
Sample Info: 2429374;;1;3;;MSD;1;

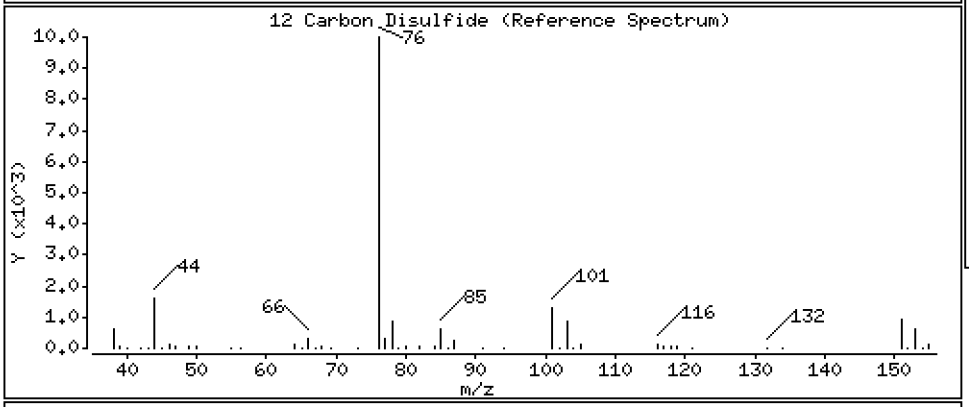
Purge Volume: 5.0 Operator: CJG

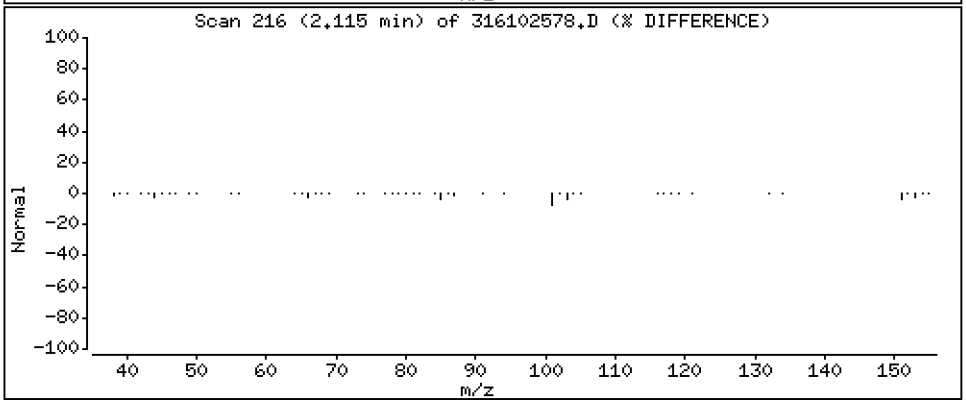
Column phase: DB-VRX Column diameter: 0.25

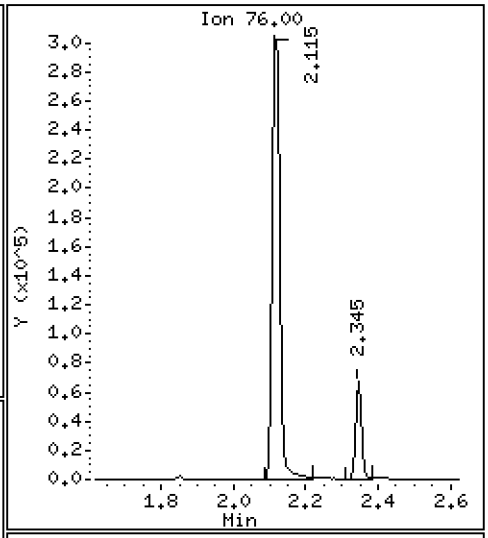
12 Carbon Disulfide Concentration: 19.3925 ug/L

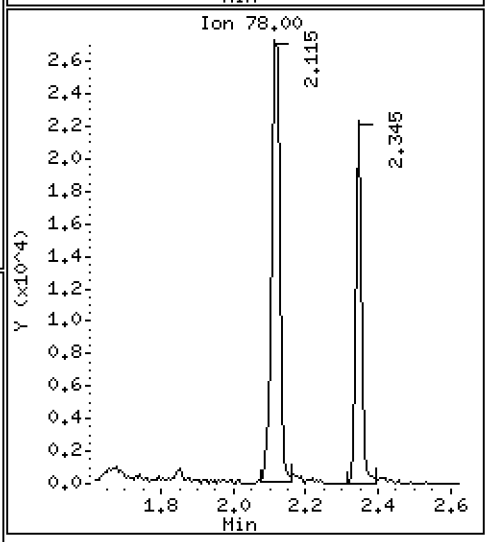












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 24

Date : 26-OCT-2016 07:52

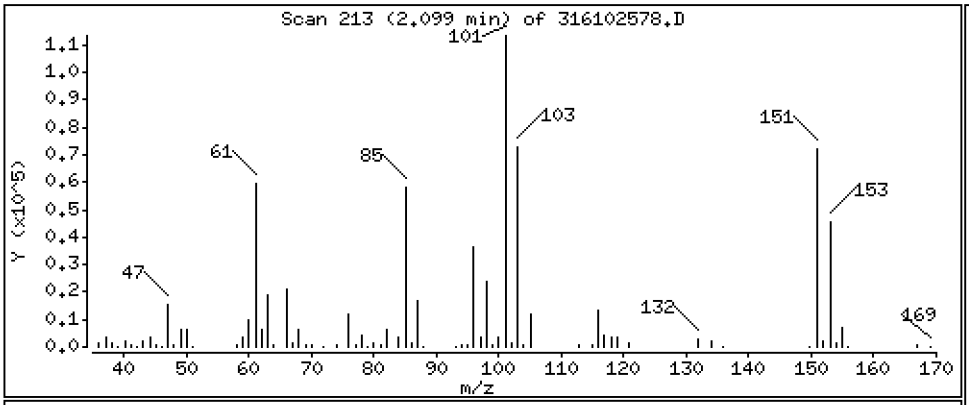
Client ID: 2184163001MSD Instrument: ms03.i

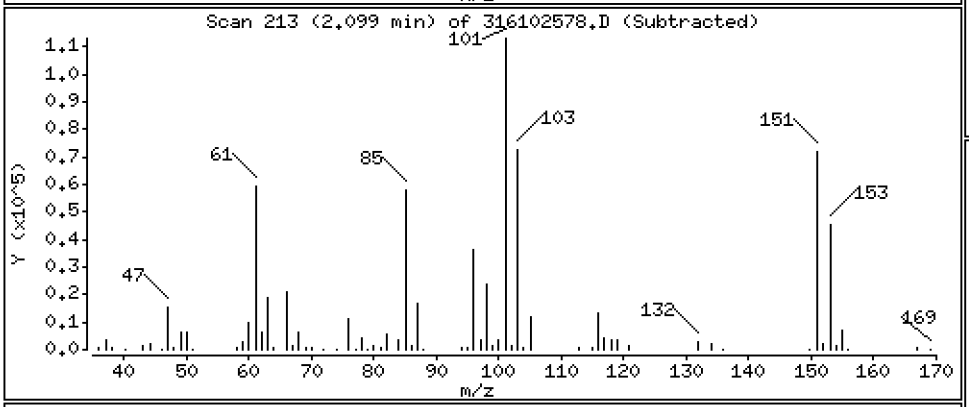
Sample Info: 2429374;;1;3;;MSD;1;

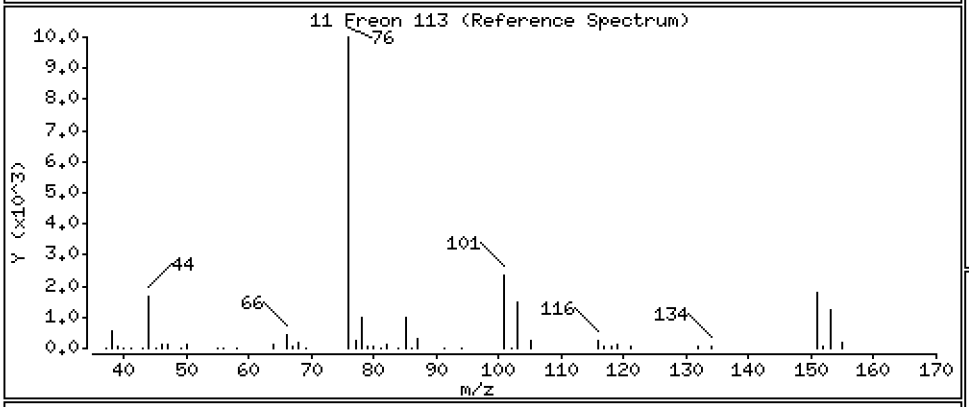
Purge Volume: 5.0 Operator: CJG

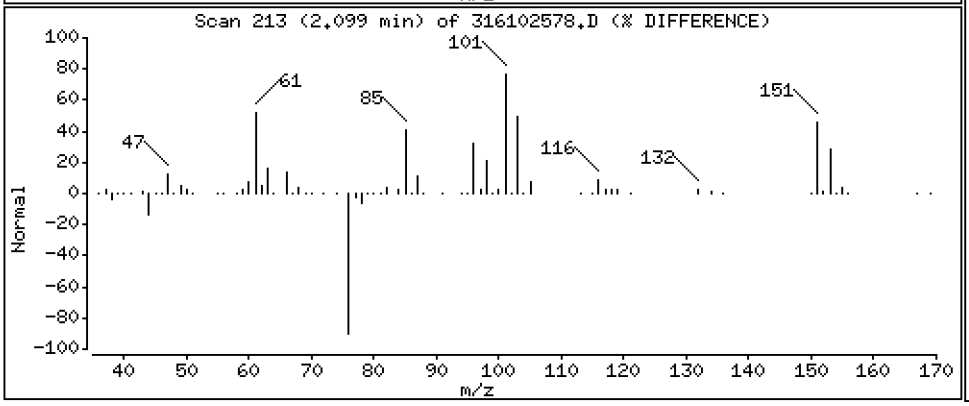
Column phase: DB-VRX Column diameter: 0.25

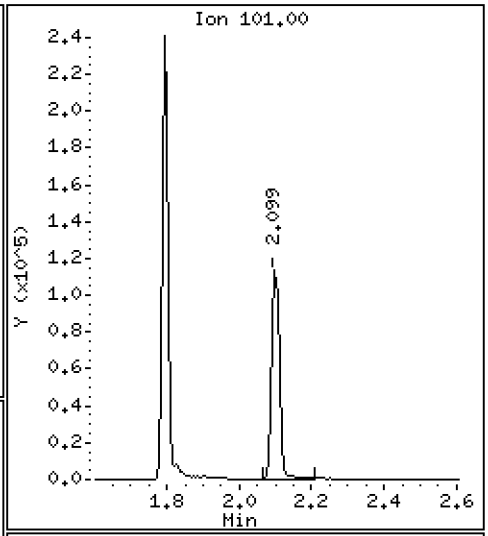
11 Freon 113 Concentration: 23.2265 ug/L

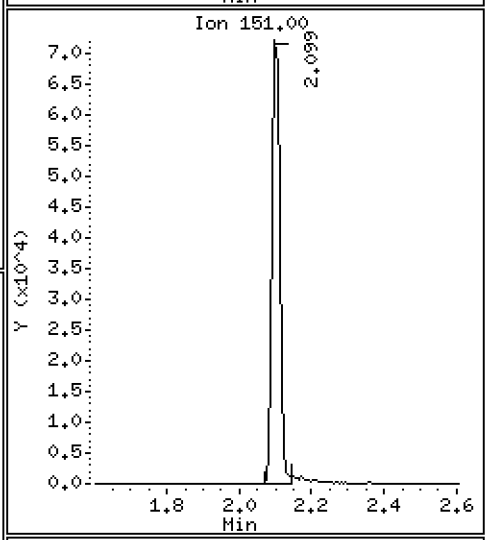


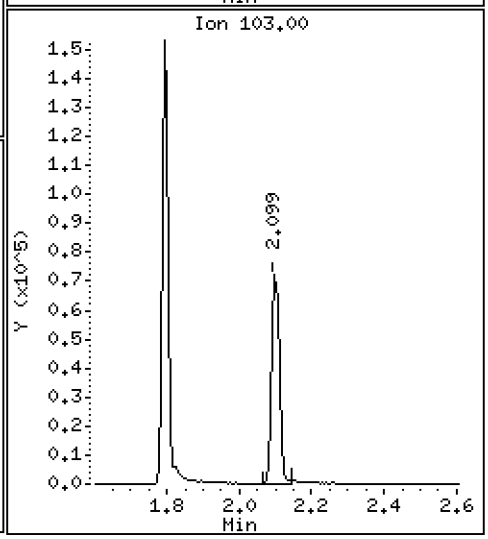












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 25

Date : 26-OCT-2016 07:52

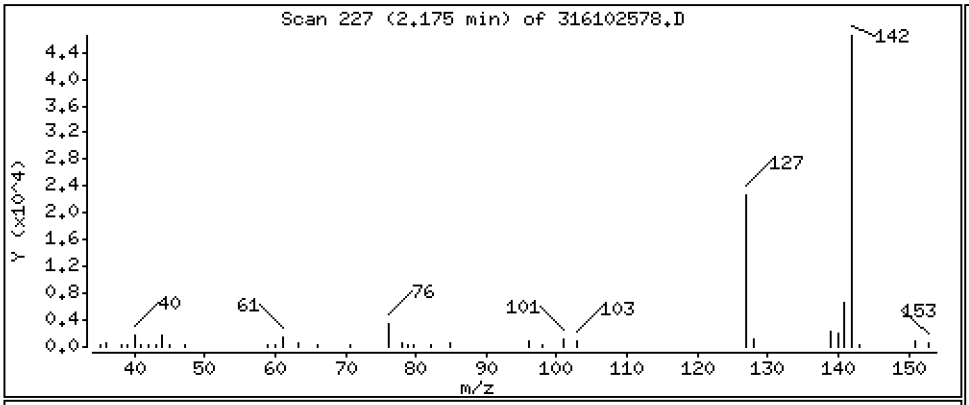
Client ID: 2184163001MSD Instrument: ms03.i

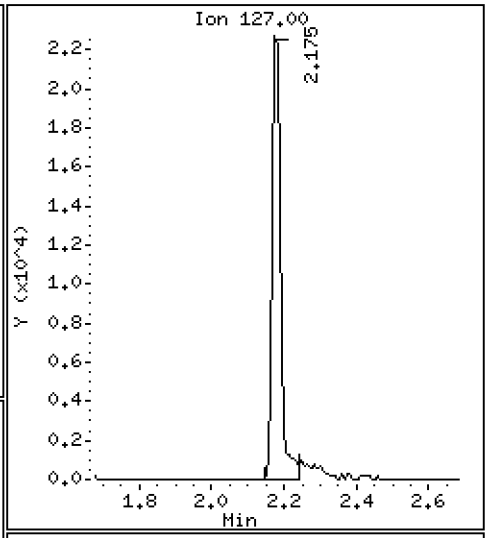
Sample Info: 2429374;;1;3;;MSD;1;

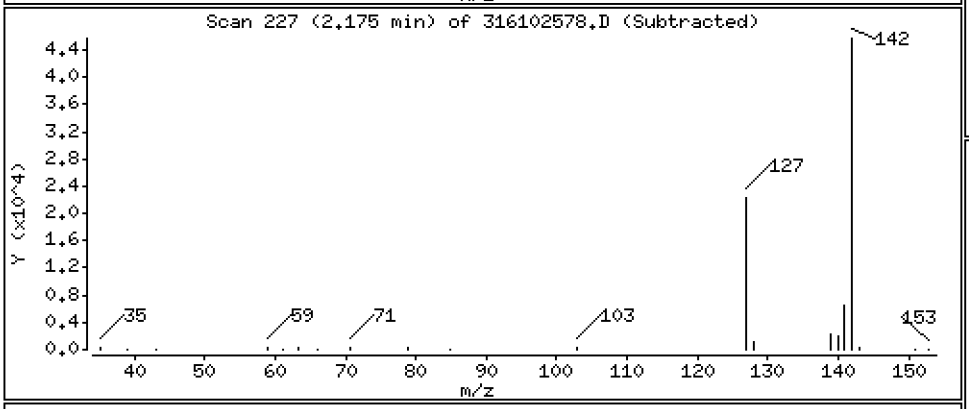
Purge Volume: 5.0 Operator: CJG

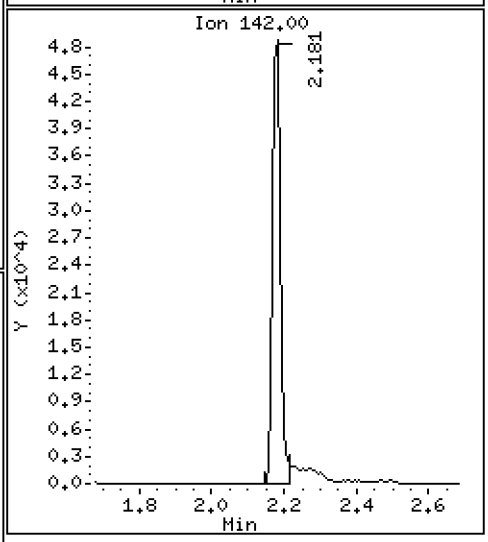
Column phase: DB-VRX Column diameter: 0.25

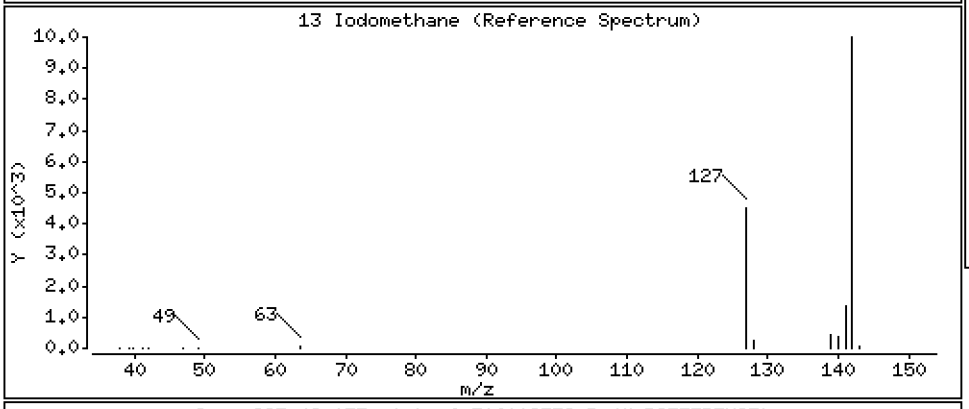
13 Iodomethane Concentration: 20.8827 ug/L

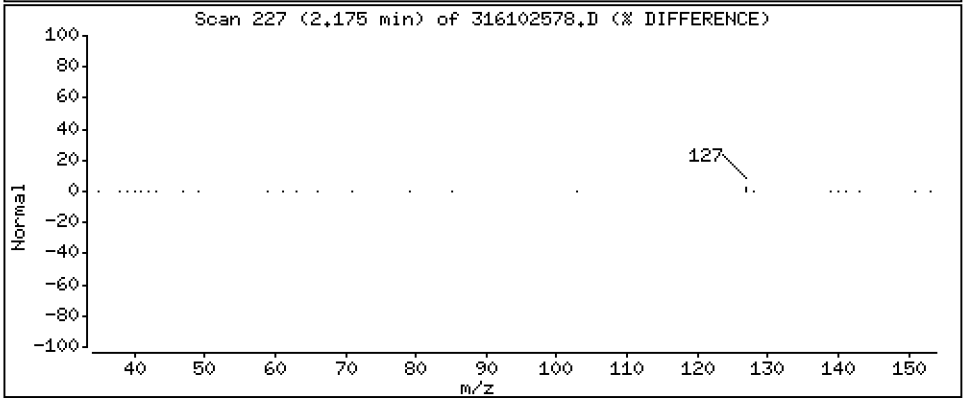












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 26

Date : 26-OCT-2016 07:52

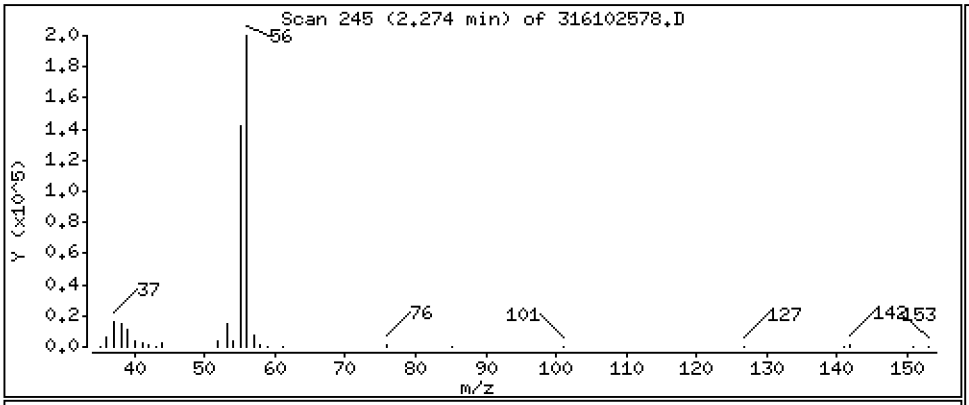
Client ID: 2184163001MSD Instrument: ms03.i

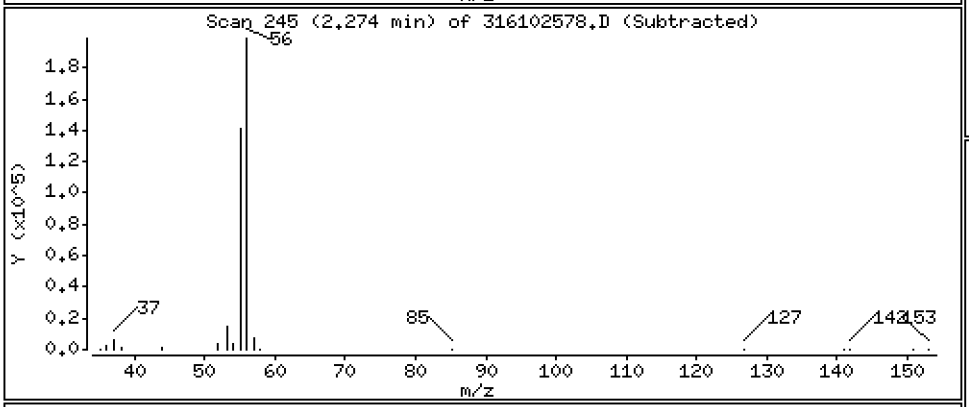
Sample Info: 2429374;;1;3;;MSD;1;

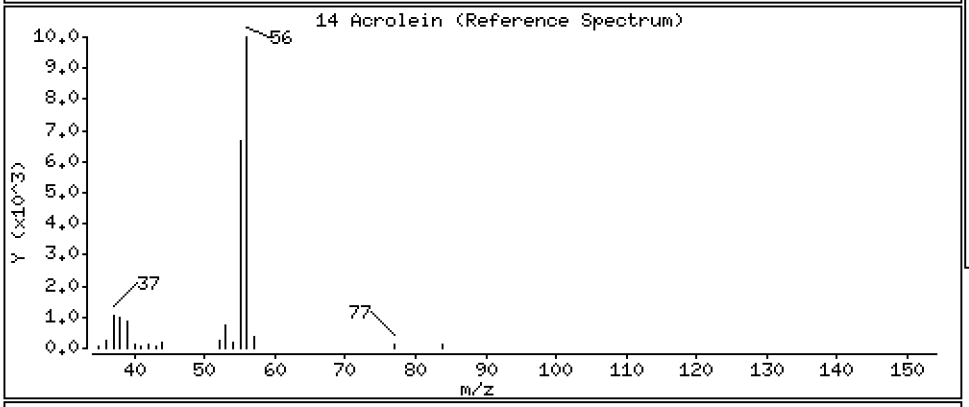
Purge Volume: 5.0 Operator: CJG

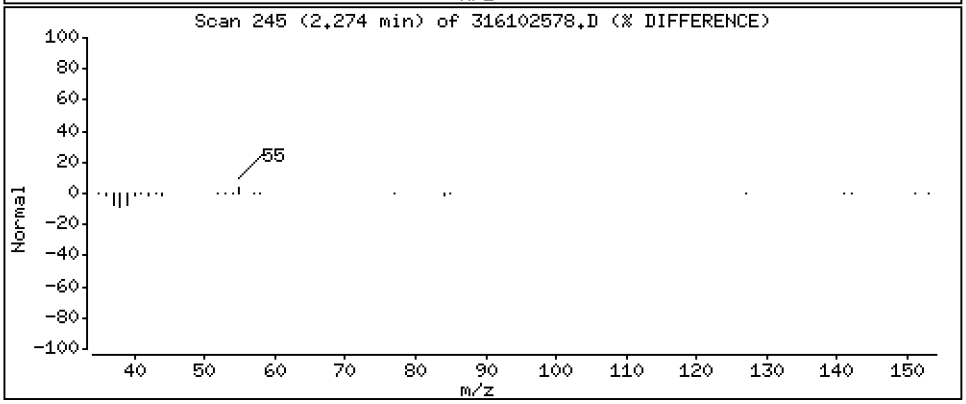
Column phase: DB-VRX Column diameter: 0.25

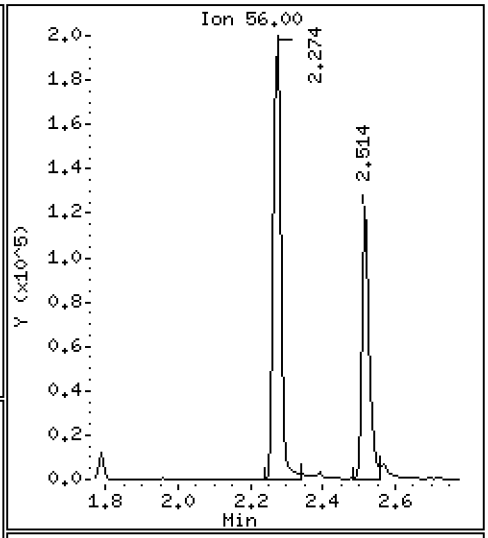
14 Acrolein Concentration: 230.851 ug/L

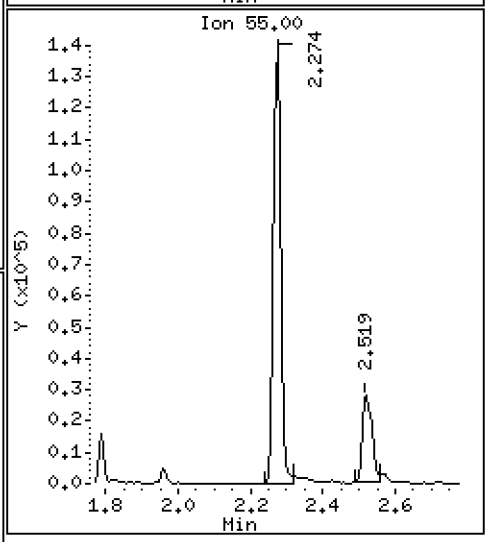












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 27

Date : 26-OCT-2016 07:52

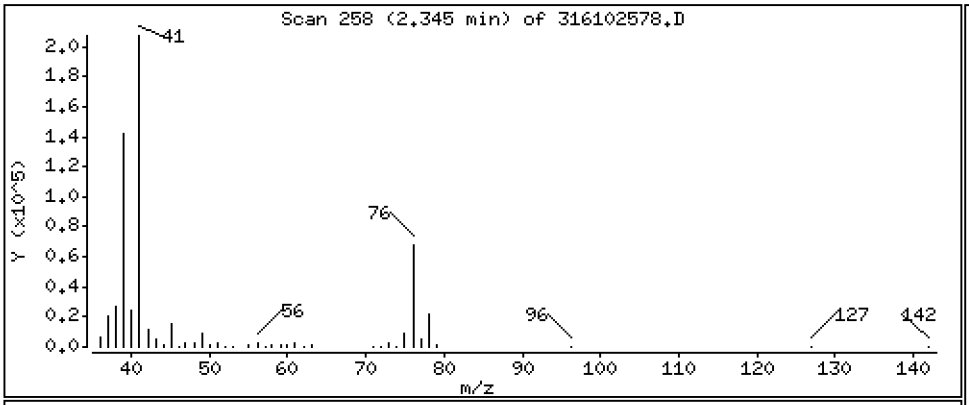
Client ID: 2184163001MSD Instrument: ms03.i

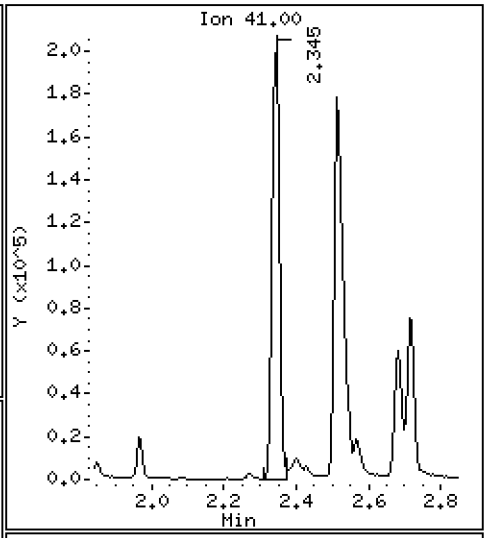
Sample Info: 2429374;;1;3;;MSD;1;

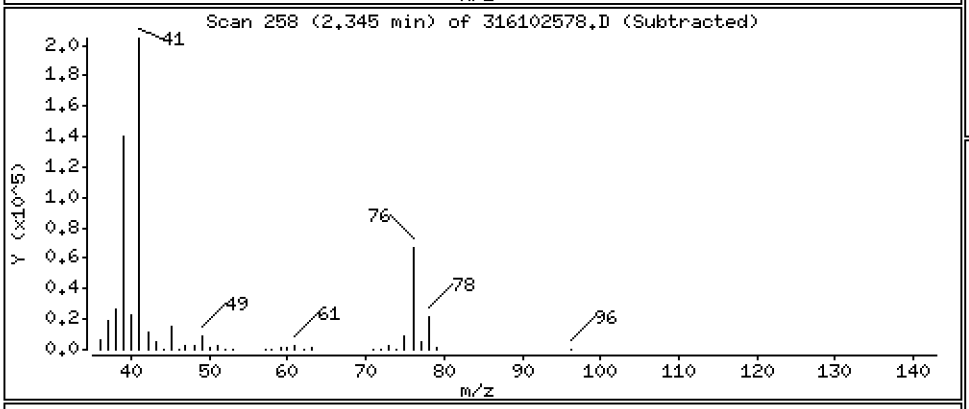
Purge Volume: 5.0 Operator: CJG

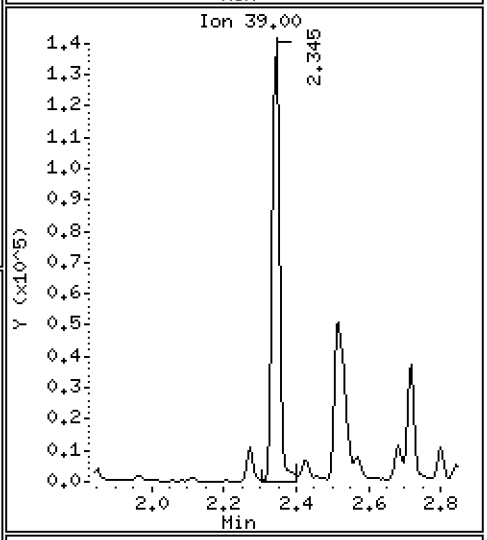
Column phase: DB-VRX Column diameter: 0.25

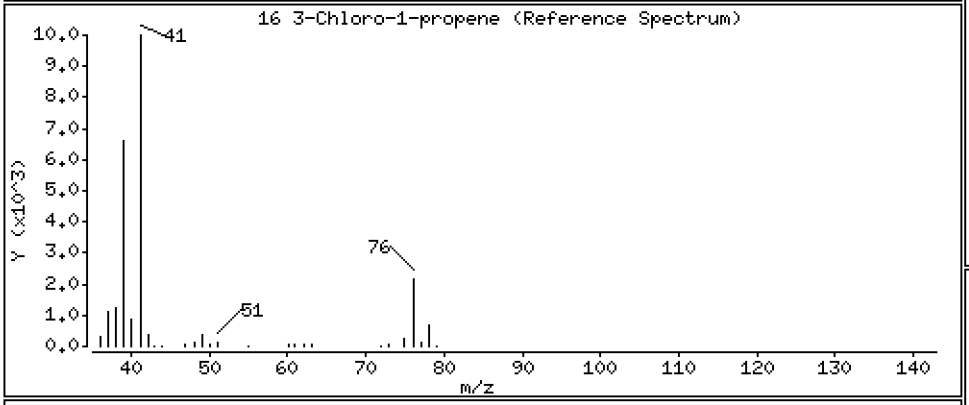
16 3-Chloro-1-propene Concentration: 25.5171 ug/L

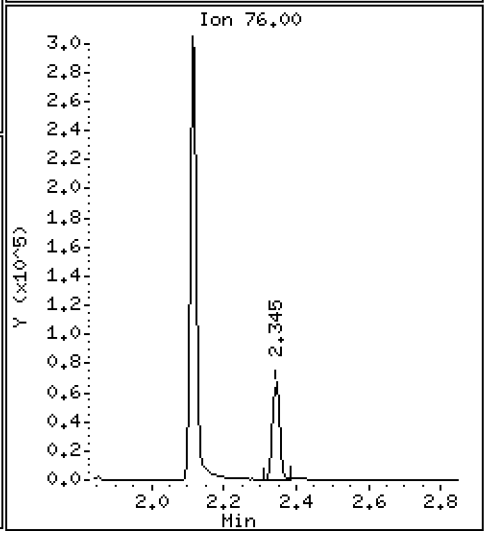


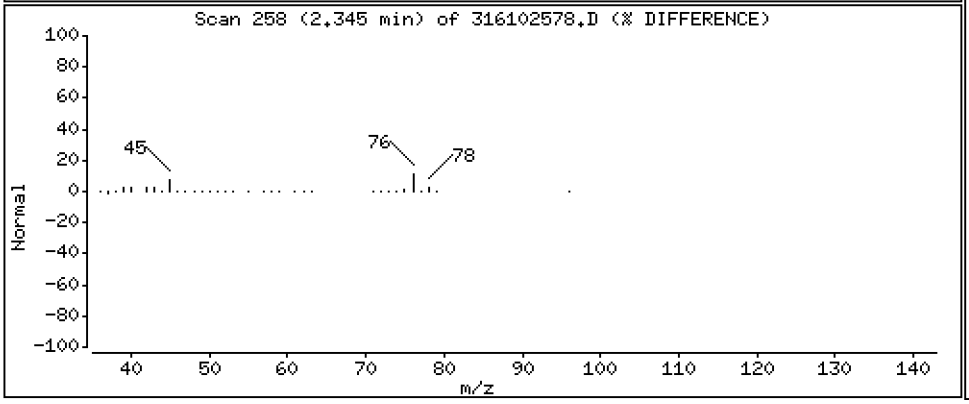












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 28

Date : 26-OCT-2016 07:52

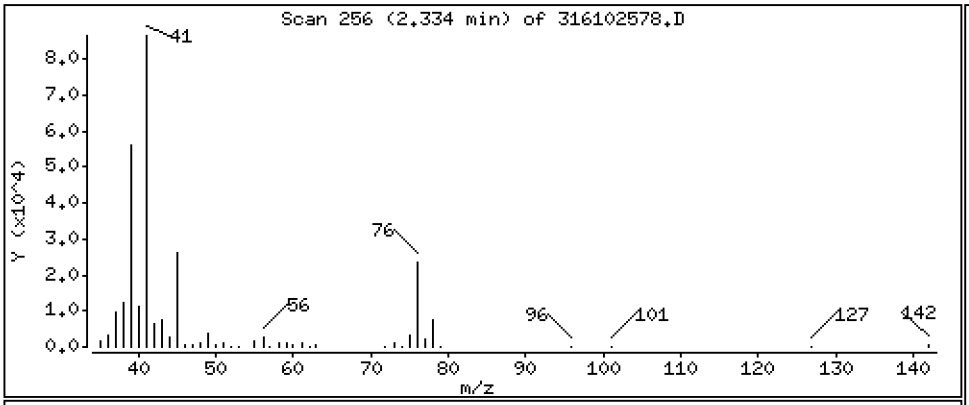
Client ID: 2184163001MSD Instrument: ms03.i

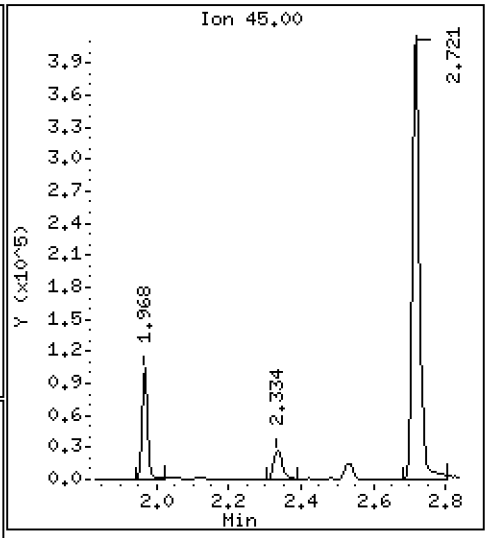
Sample Info: 2429374;;1;3;;MSD;1;

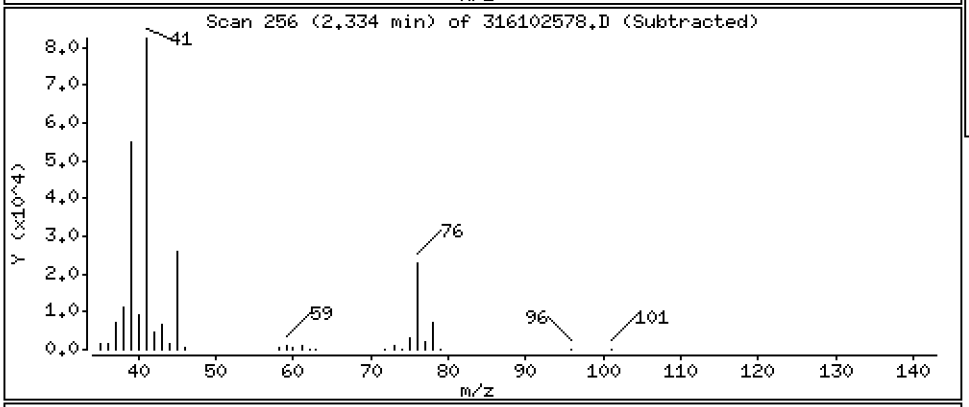
Purge Volume: 5.0 Operator: CJG

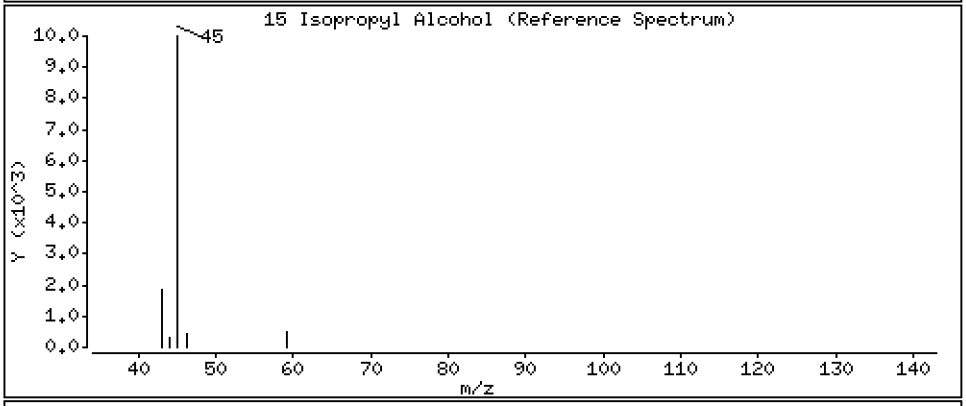
Column phase: DB-VRX Column diameter: 0.25

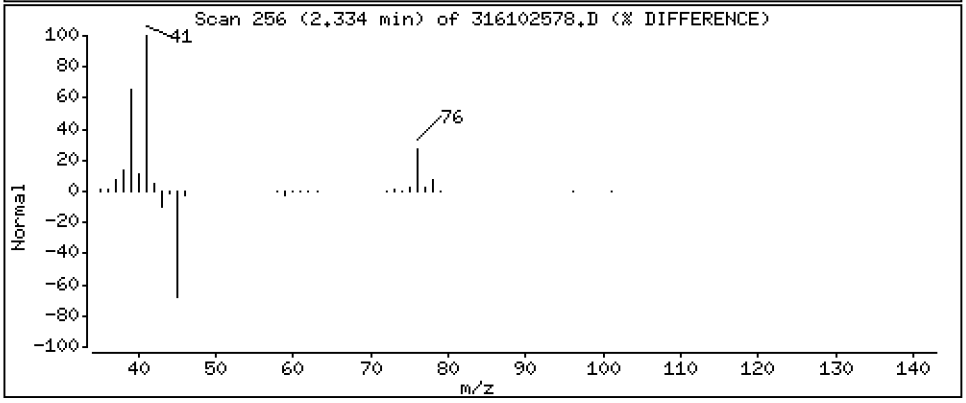
15 Isopropyl Alcohol Concentration: 165.170 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 29

Date : 26-OCT-2016 07:52

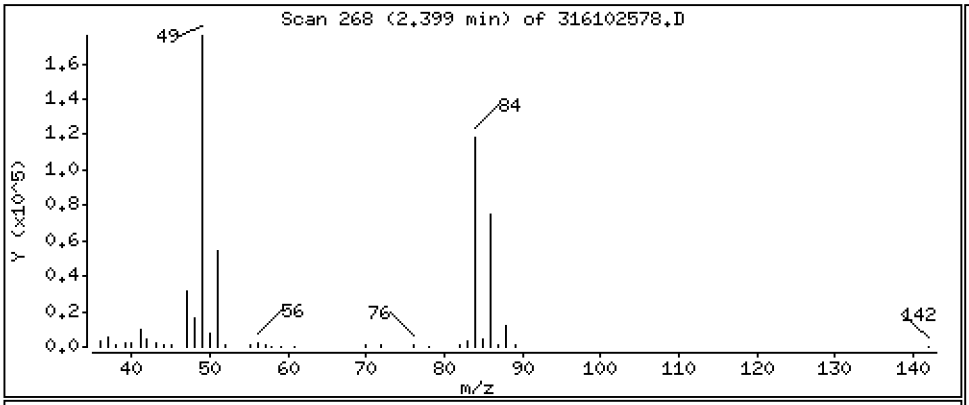
Client ID: 2184163001MSD Instrument: ms03.i

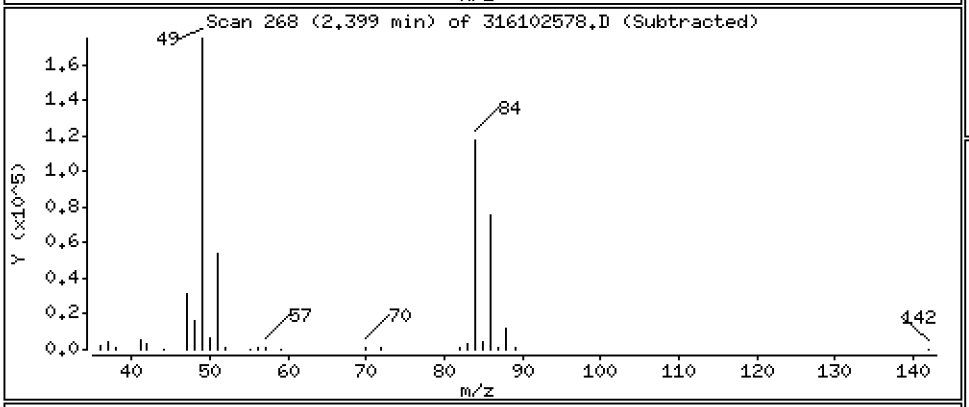
Sample Info: 2429374;;1;3;;MSD;1;

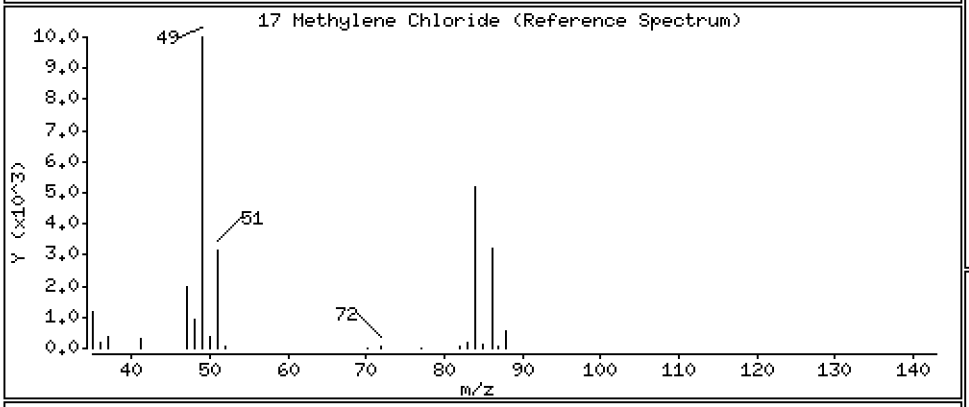
Purge Volume: 5.0 Operator: CJG

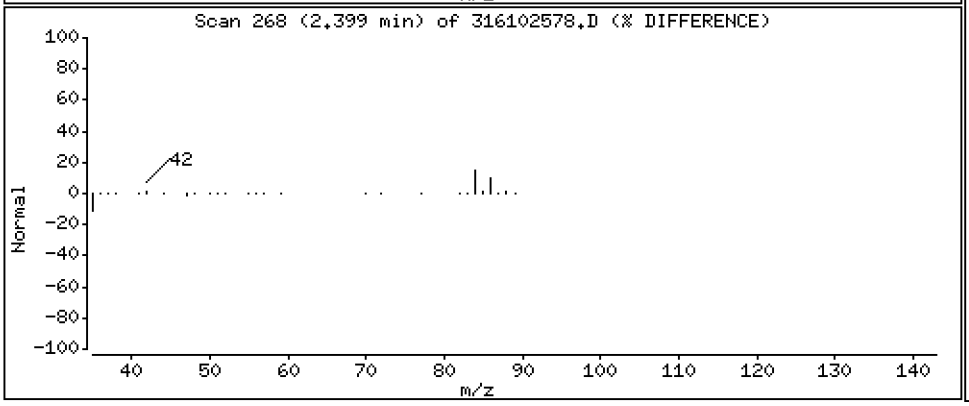
Column phase: DB-VRX Column diameter: 0.25

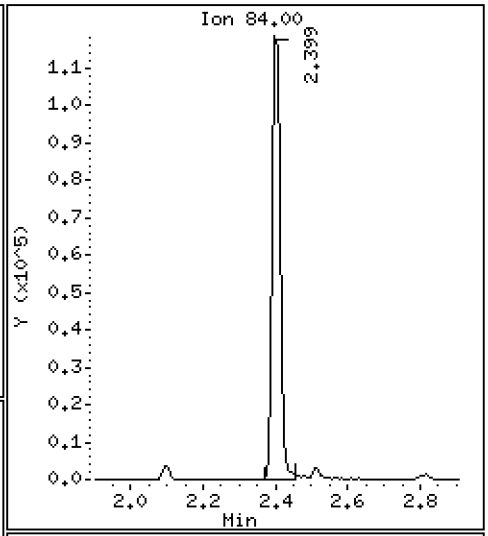
17 Methylene Chloride Concentration: 20.5717 ug/L

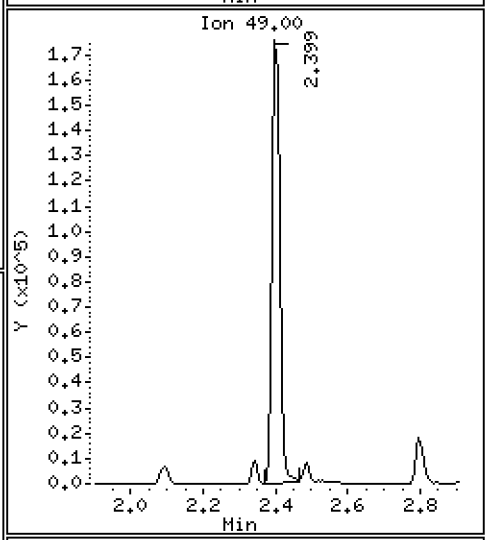


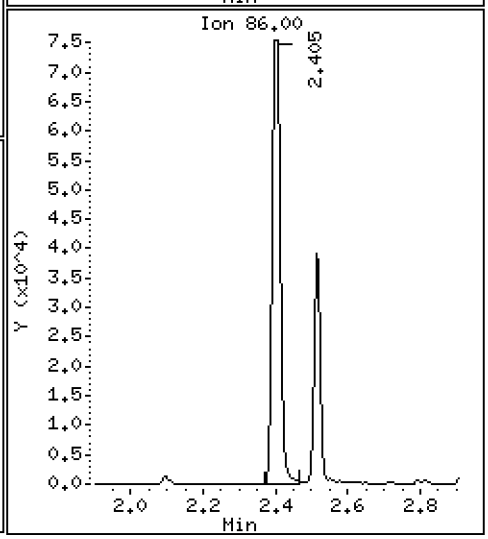












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 30

Date : 26-OCT-2016 07:52

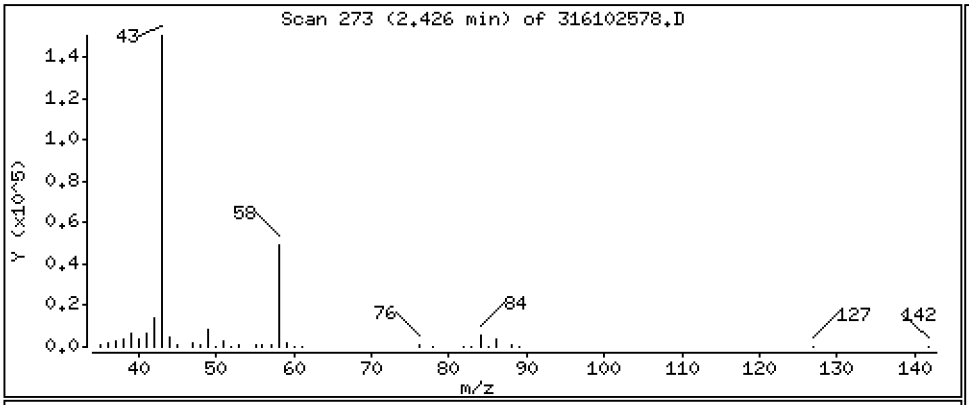
Client ID: 2184163001MSD Instrument: ms03.i

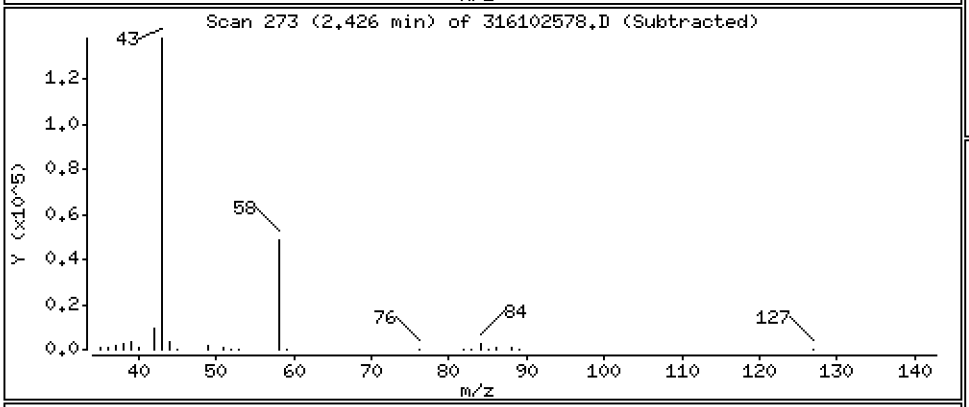
Sample Info: 2429374;;1;3;;MSD;1;

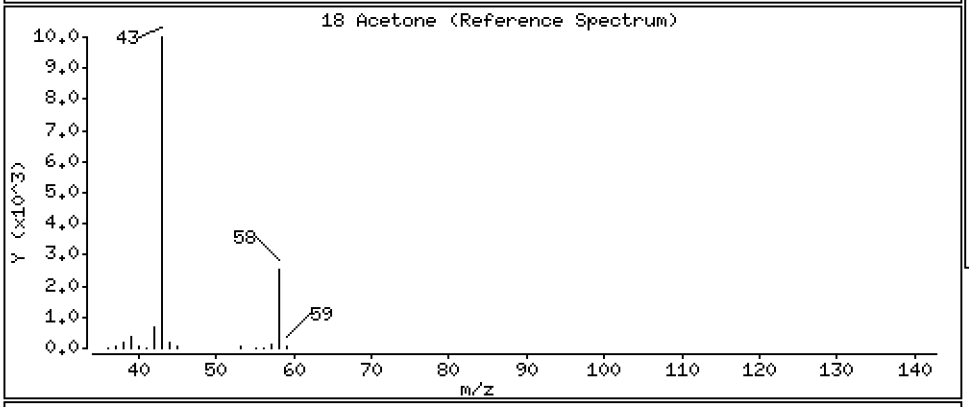
Purge Volume: 5.0 Operator: CJG

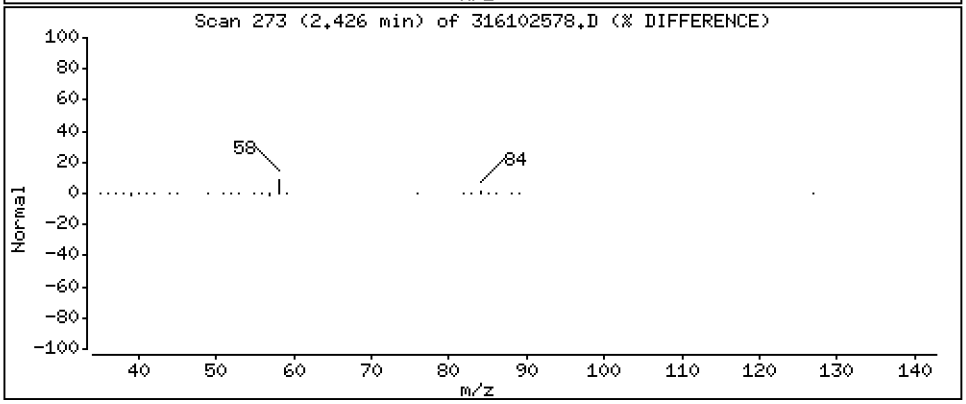
Column phase: DB-VRX Column diameter: 0.25

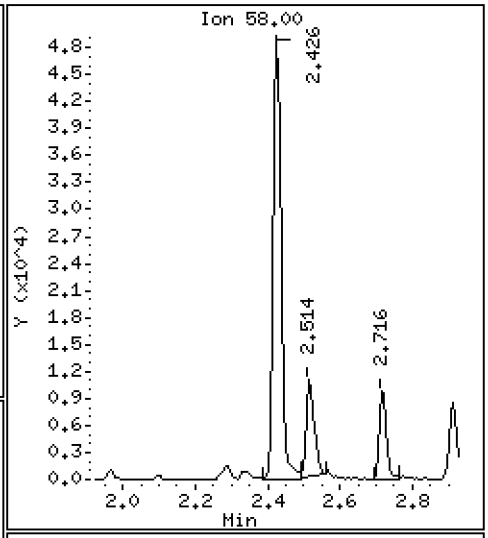
18 Acetone Concentration: 110.615 ug/L

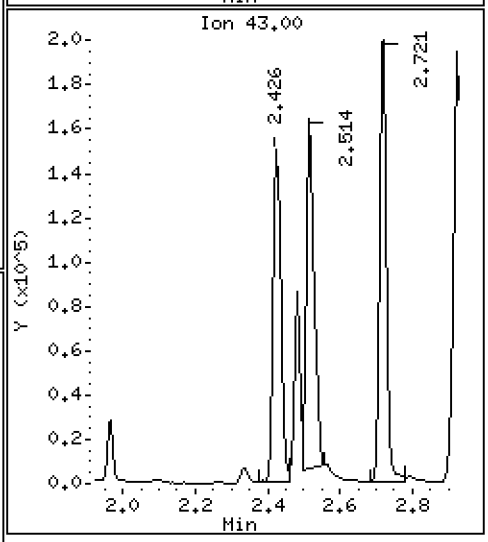












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 31

Date : 26-OCT-2016 07:52

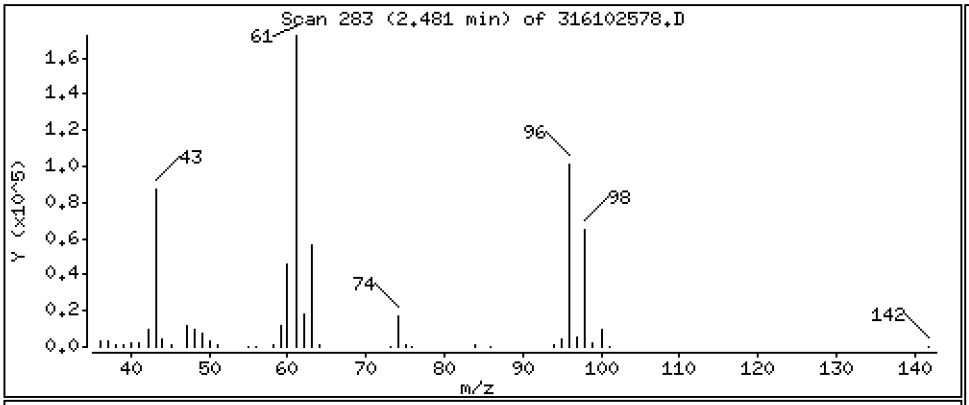
Client ID: 2184163001MSD Instrument: ms03.i

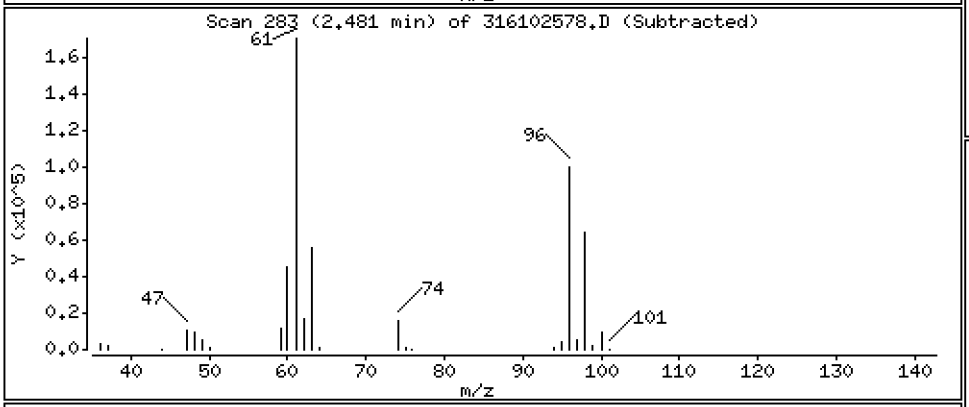
Sample Info: 2429374;;1;3;;MSD;1;

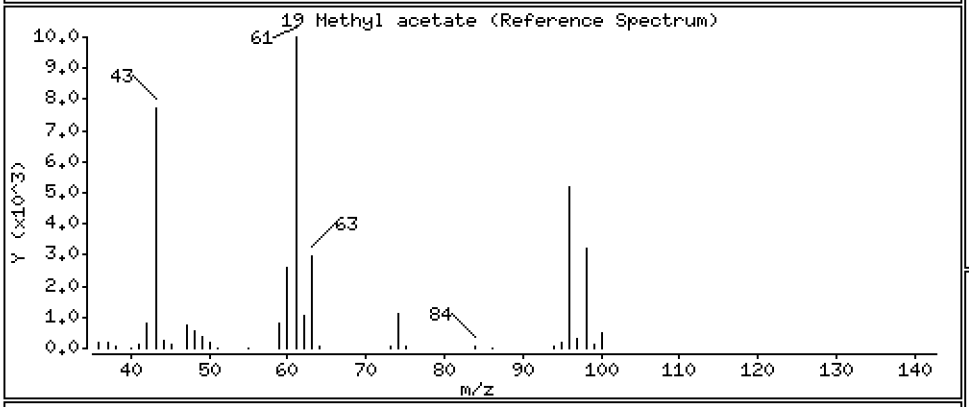
Purge Volume: 5.0 Operator: CJG

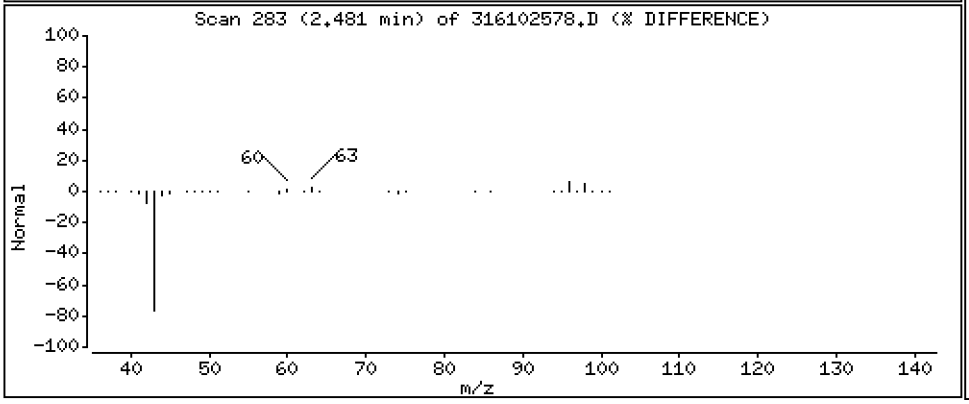
Column phase: DB-VRX Column diameter: 0.25

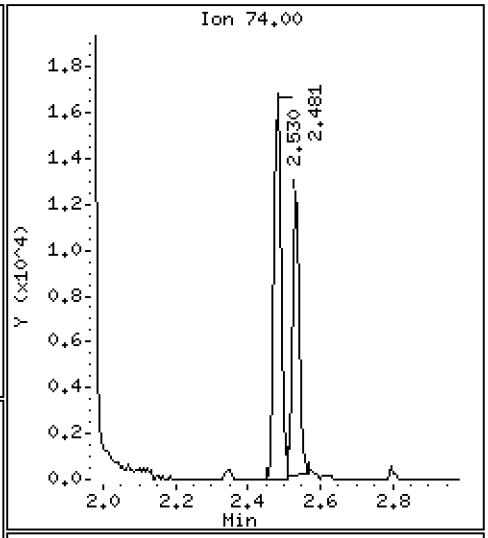
19 Methyl acetate Concentration: 16.9467 ug/L

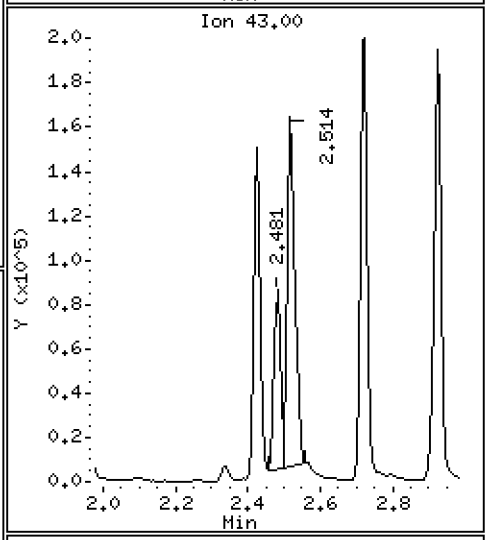


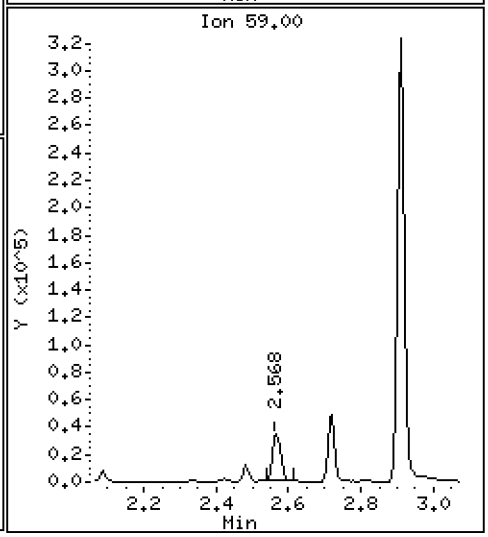












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 32

Date : 26-OCT-2016 07:52

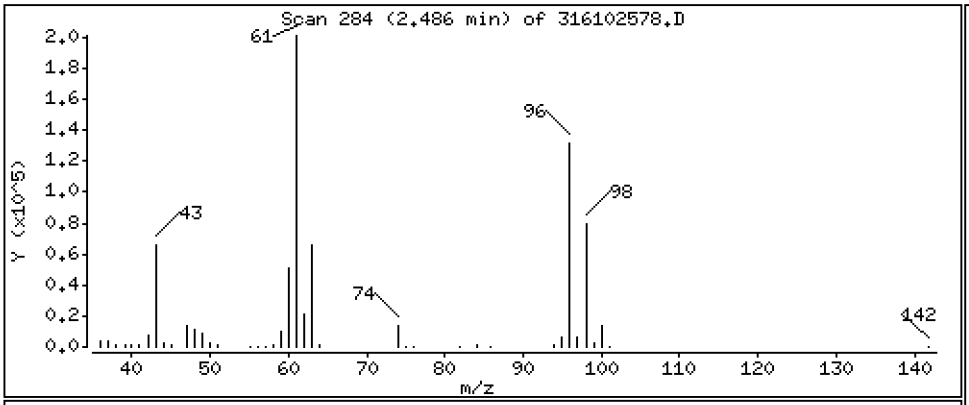
Client ID: 2184163001MSD Instrument: ms03.i

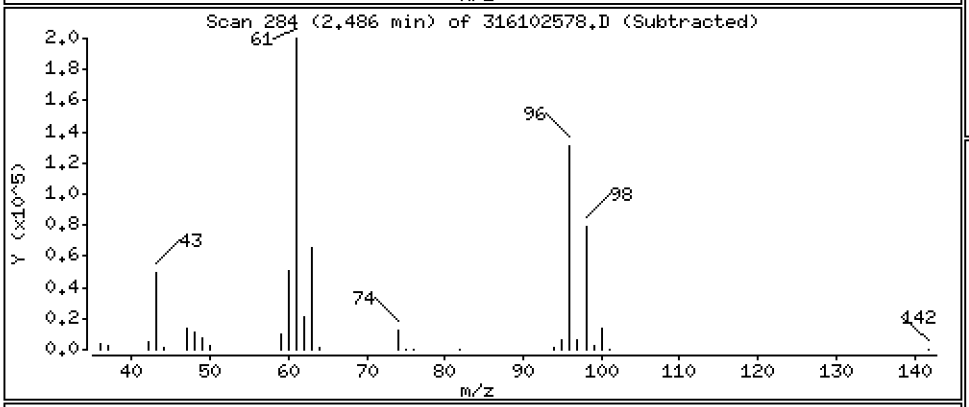
Sample Info: 2429374;;1;3;;MSD;1;

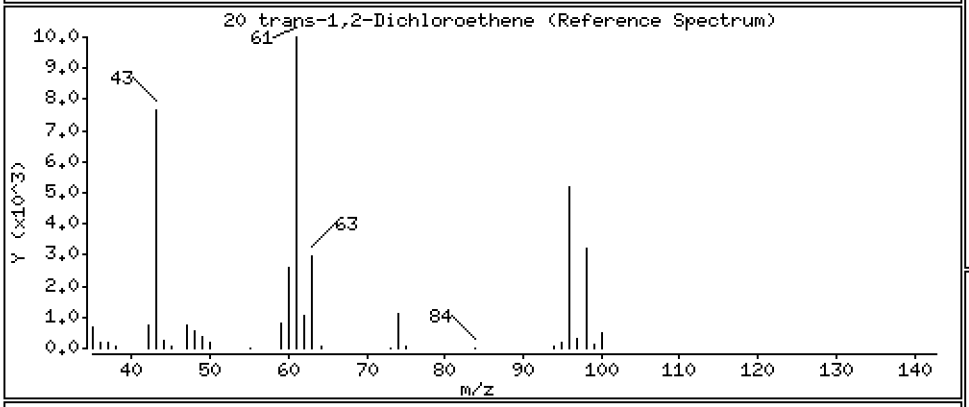
Purge Volume: 5.0 Operator: CJG

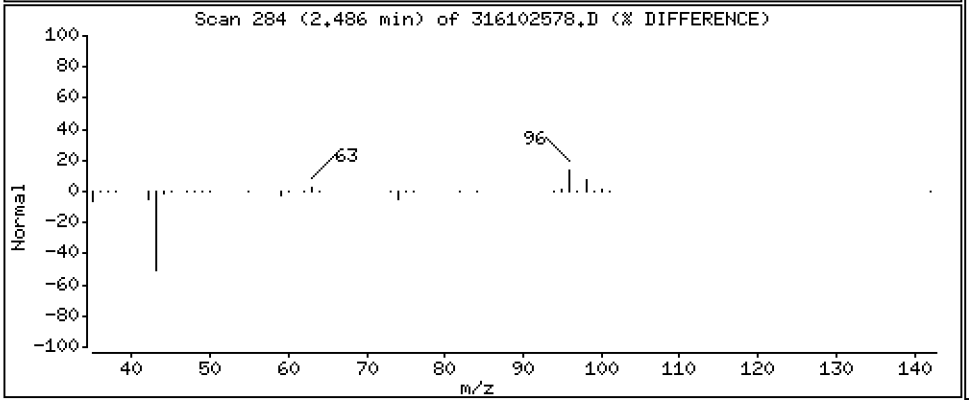
Column phase: DB-VRX Column diameter: 0.25

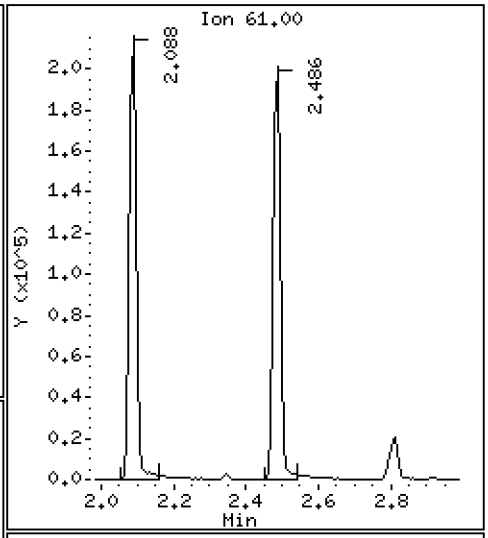
20 trans-1,2-Dichloroethene Concentration: 21.6032 ug/L

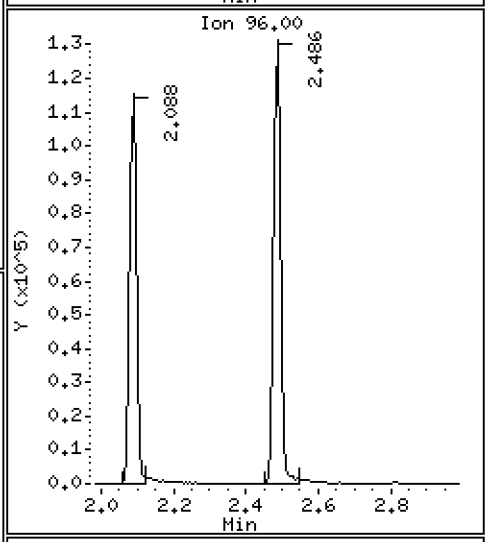


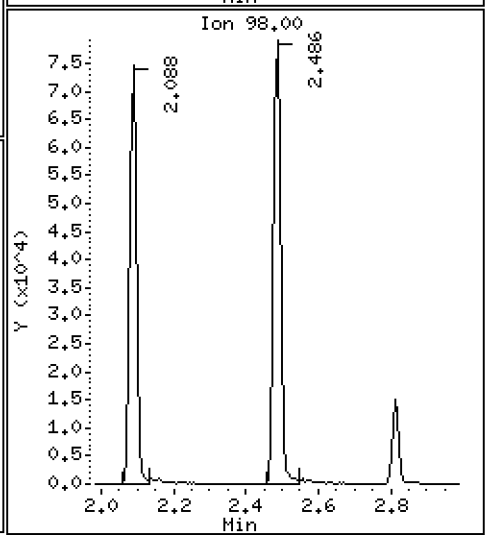












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 33

Date : 26-OCT-2016 07:52

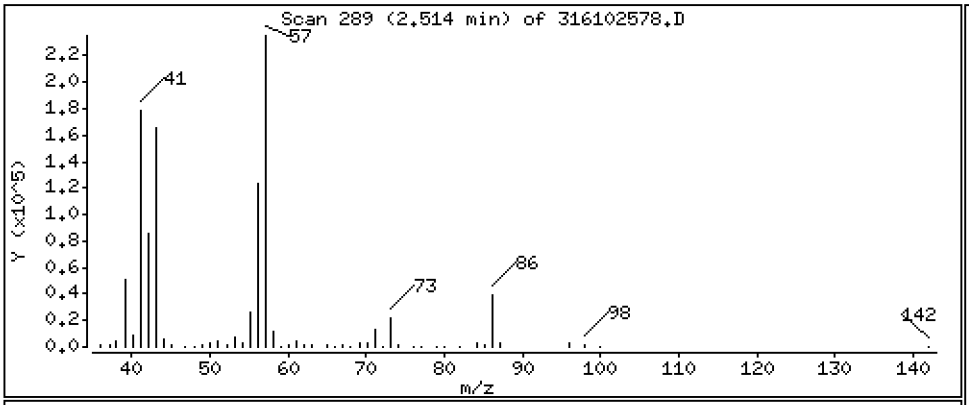
Client ID: 2184163001MSD Instrument: ms03.i

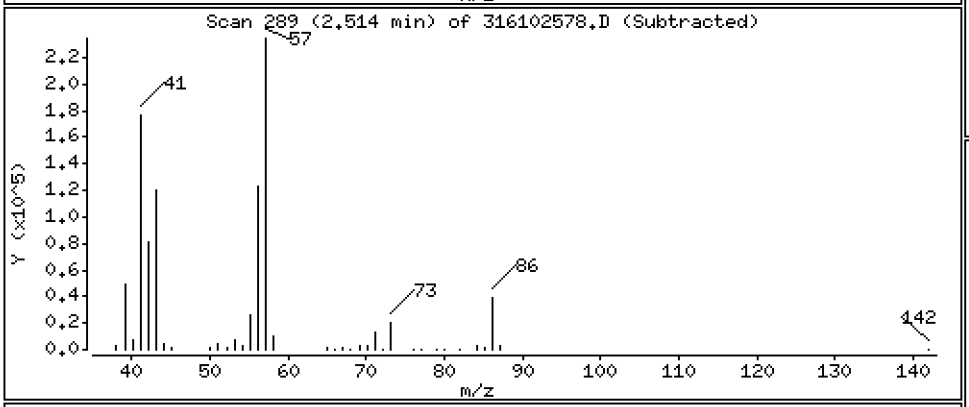
Sample Info: 2429374;;1;3;;MSD;1;

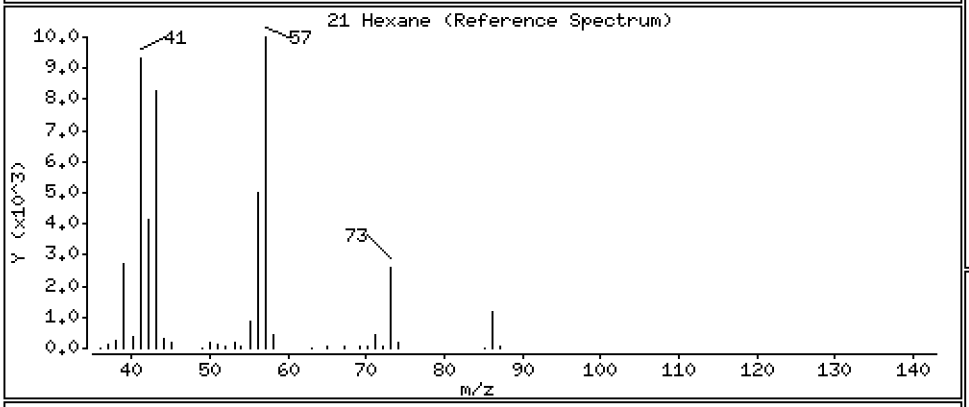
Purge Volume: 5.0 Operator: CJG

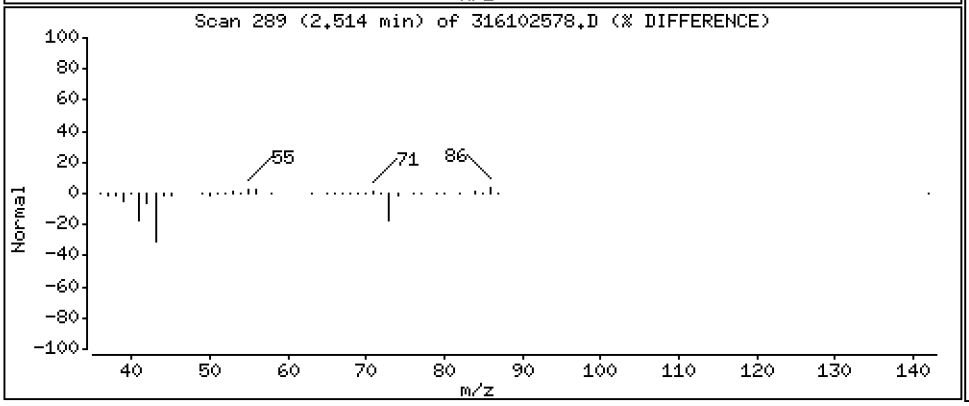
Column phase: DB-VRX Column diameter: 0.25

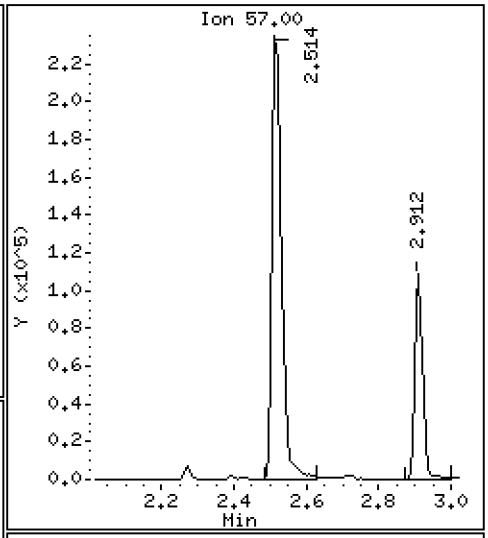
21 Hexane Concentration: 24.4735 ug/L

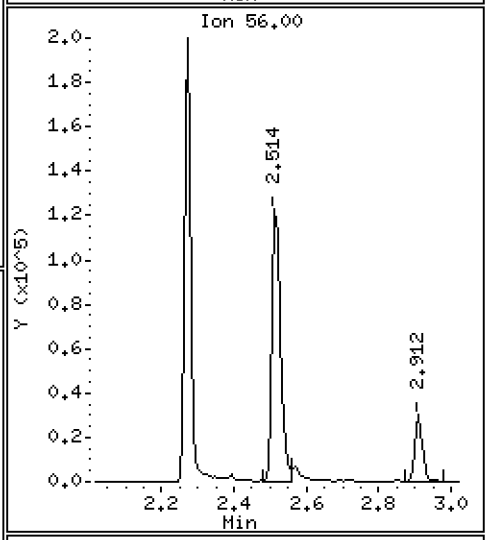


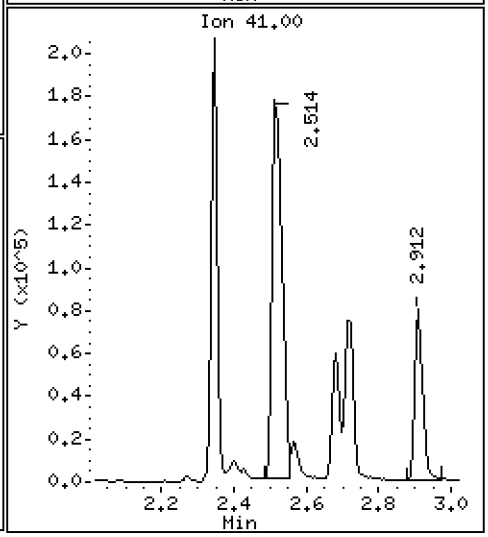












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 34

Date : 26-OCT-2016 07:52

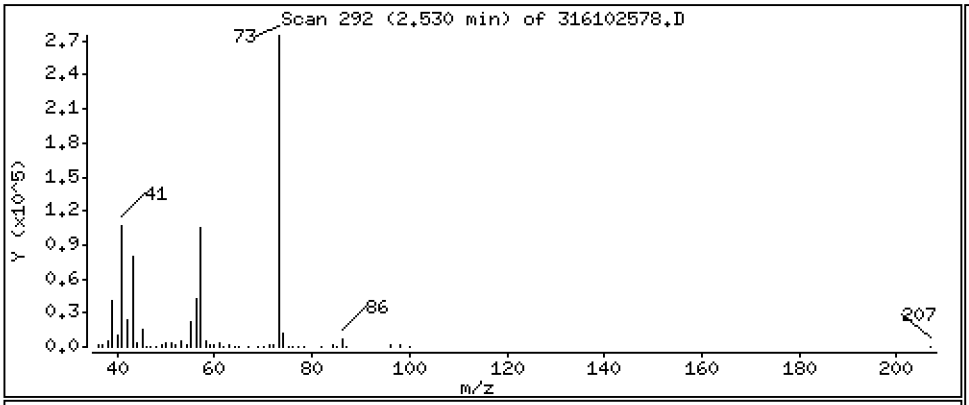
Client ID: 2184163001MSD Instrument: ms03.i

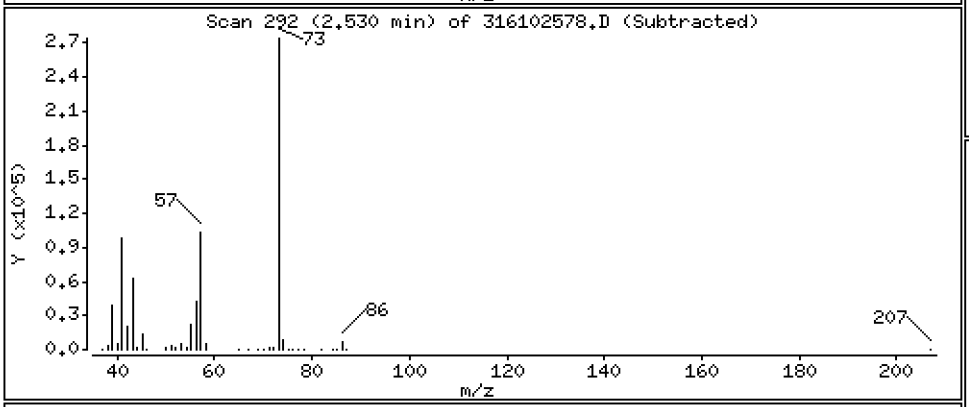
Sample Info: 2429374;;1;3;;MSD;1;

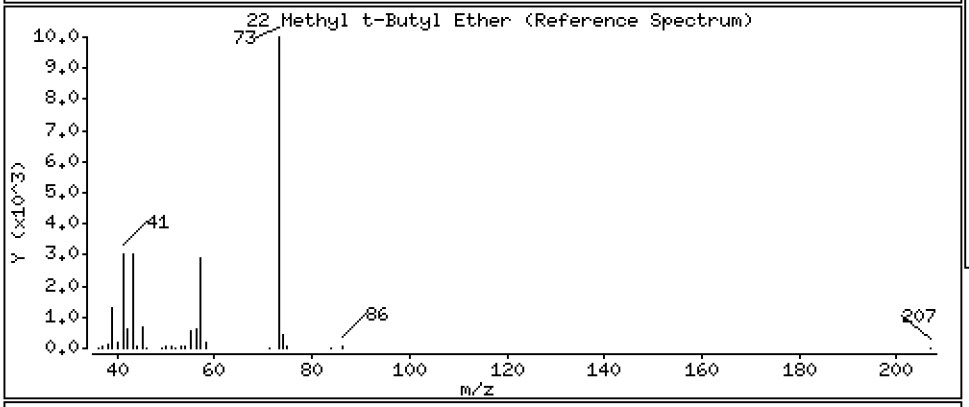
Purge Volume: 5.0 Operator: CJG

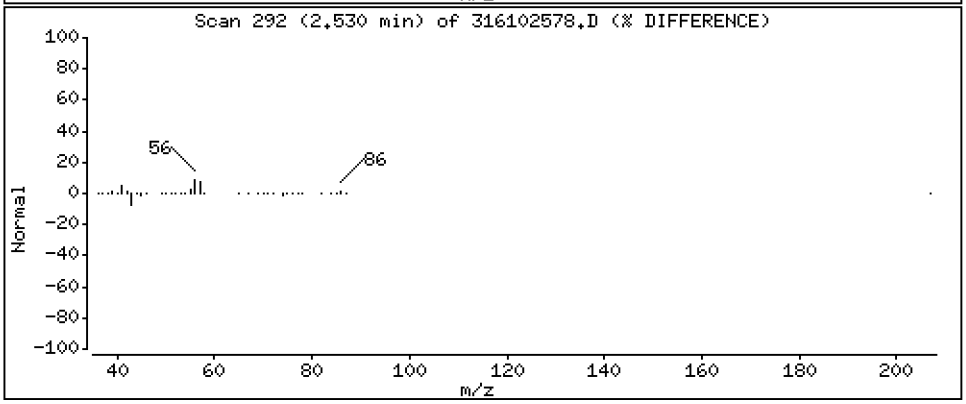
Column phase: DB-VRX Column diameter: 0.25

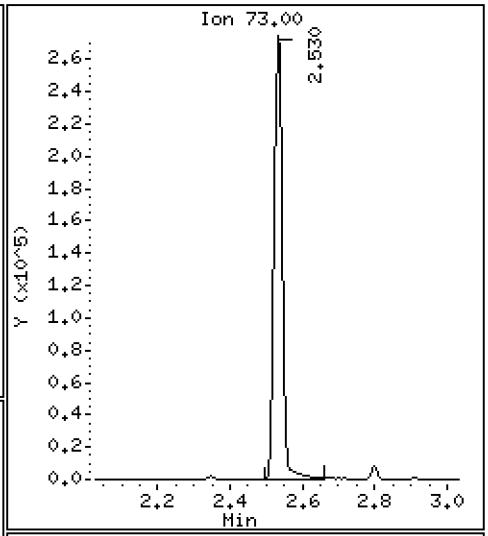
22 Methyl t-Butyl Ether Concentration: 20.1023 ug/L

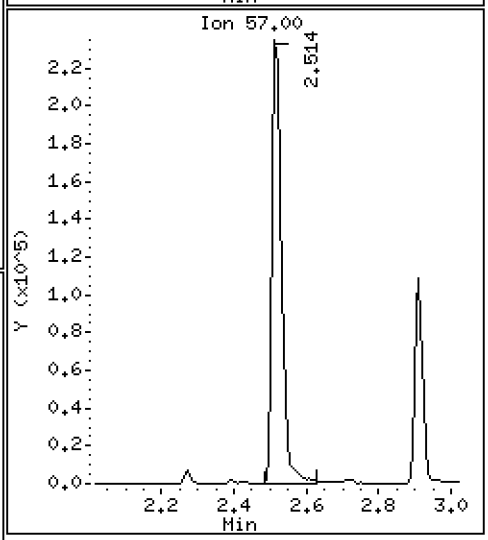












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 35

Date : 26-OCT-2016 07:52

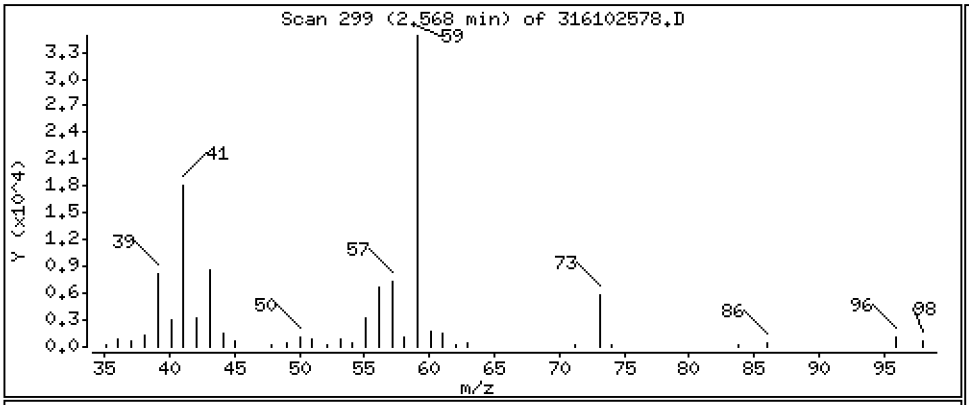
Client ID: 2184163001MSD Instrument: ms03.i

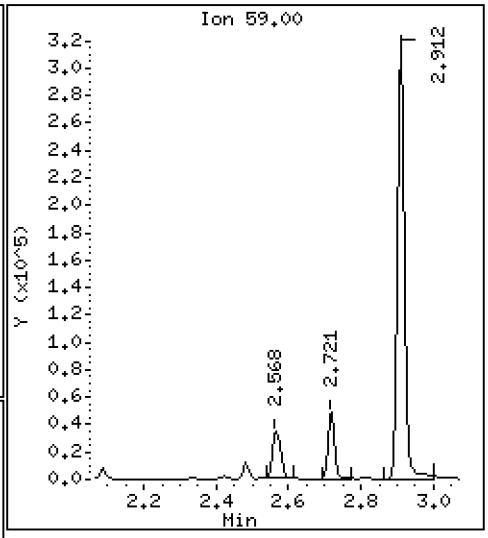
Sample Info: 2429374;;1;3;;MSD;1;

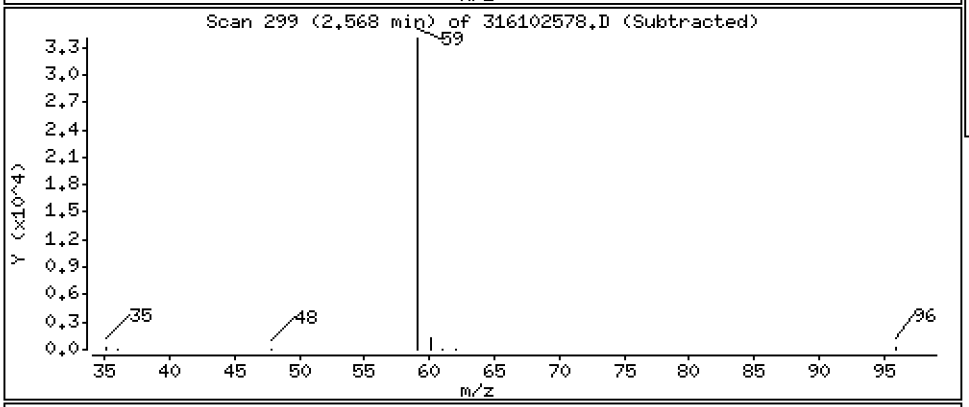
Purge Volume: 5.0 Operator: CJG

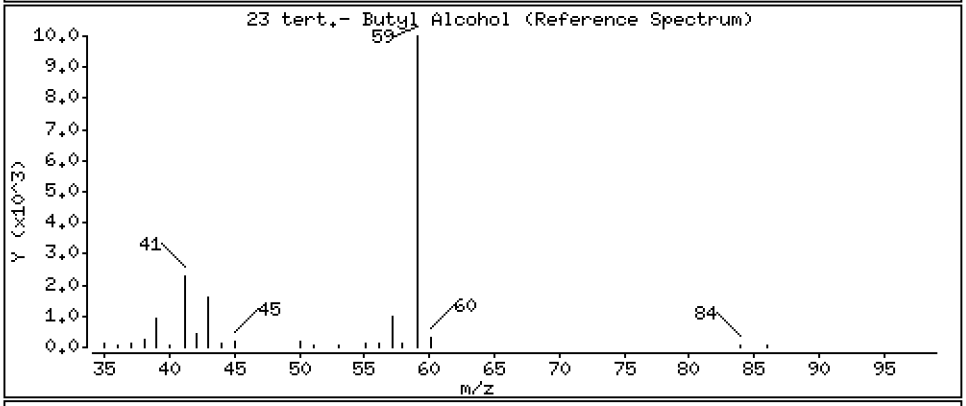
Column phase: DB-VRX Column diameter: 0.25

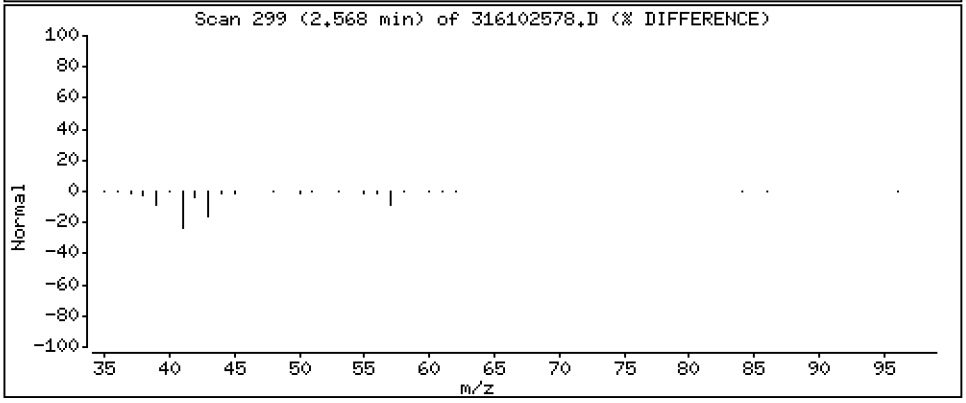
23 tert.- Butyl Alcohol Concentration: 115.664 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 36

Date : 26-OCT-2016 07:52

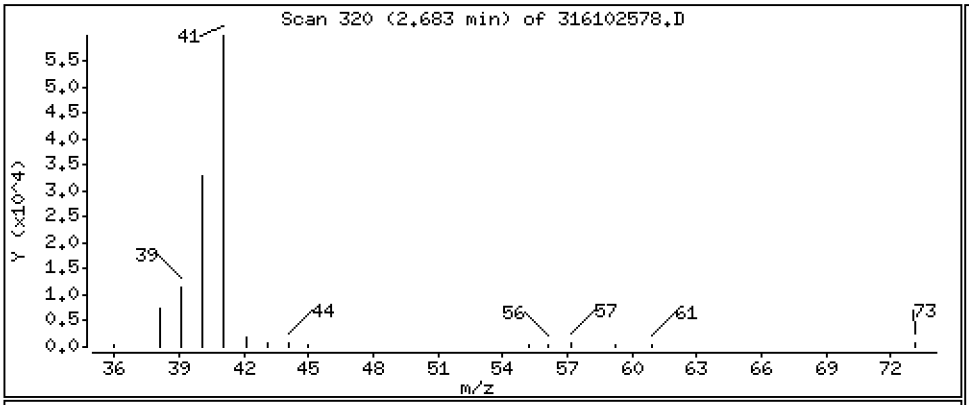
Client ID: 2184163001MSD Instrument: ms03.i

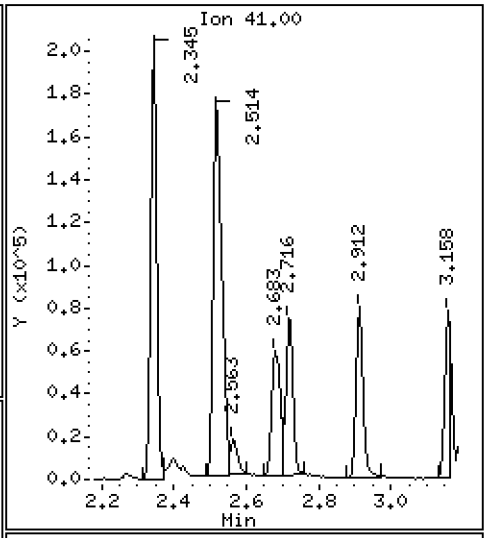
Sample Info: 2429374;;1;3;;MSD;1;

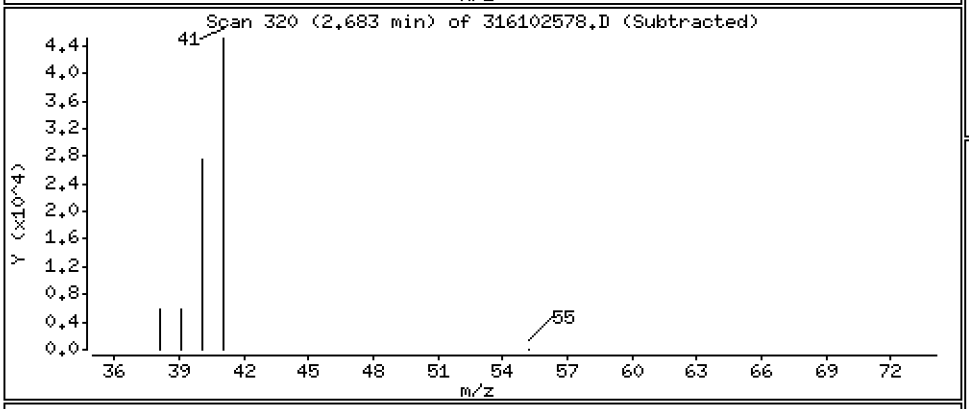
Purge Volume: 5.0 Operator: CJG

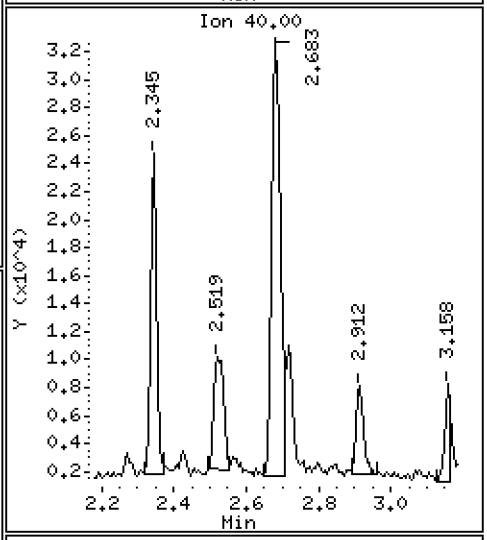
Column phase: DB-VRX Column diameter: 0.25

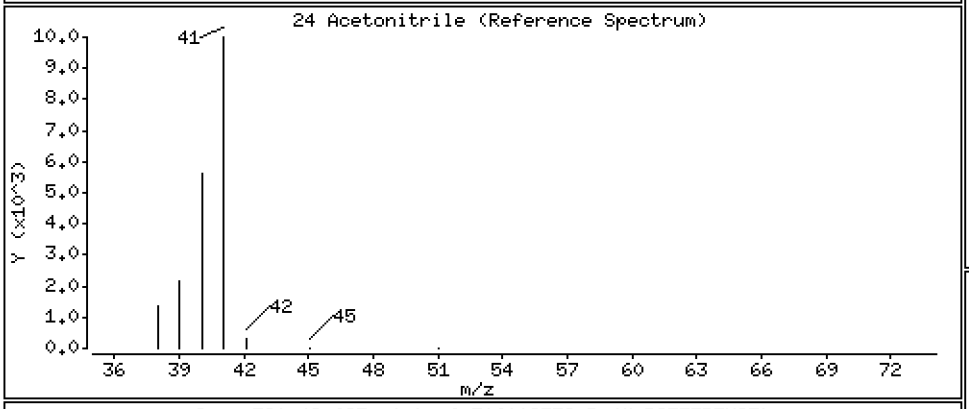
24 Acetonitrile Concentration: 137.029 ug/L

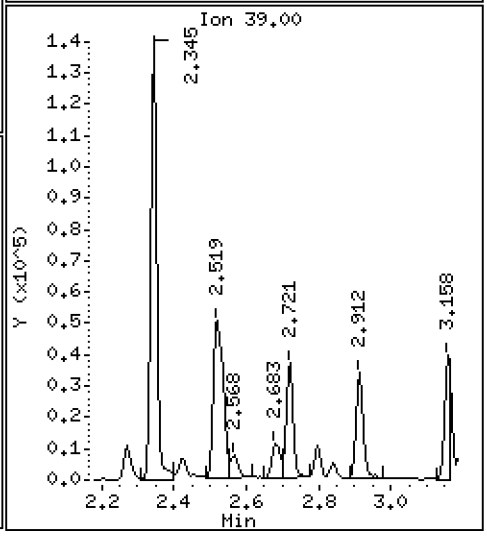


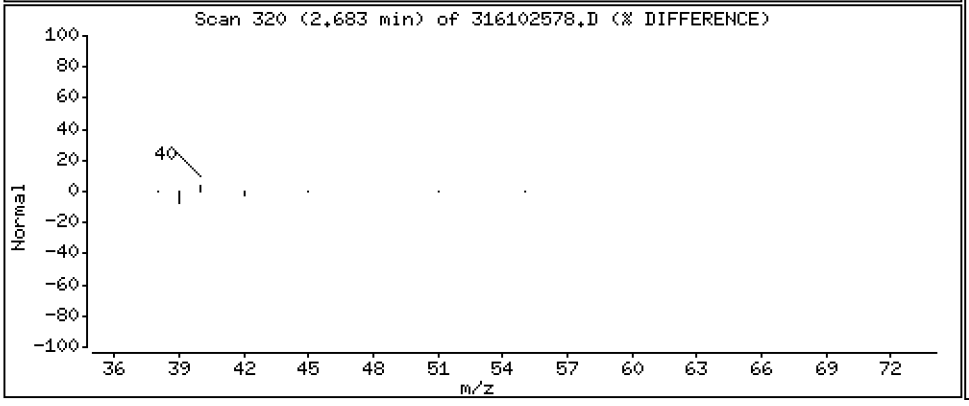












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 37

Date : 26-OCT-2016 07:52

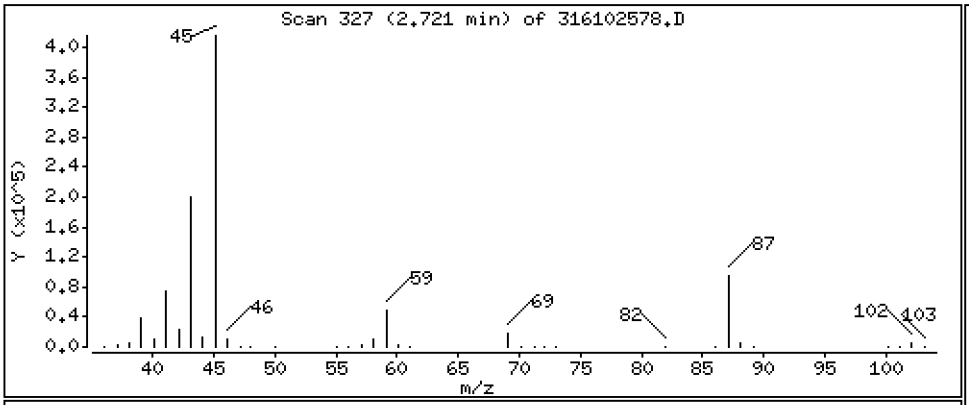
Client ID: 2184163001MSD Instrument: ms03.i

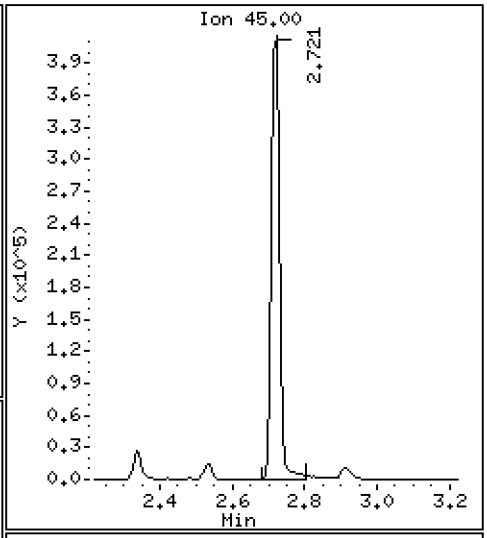
Sample Info: 2429374;;1;3;;MSD;1;

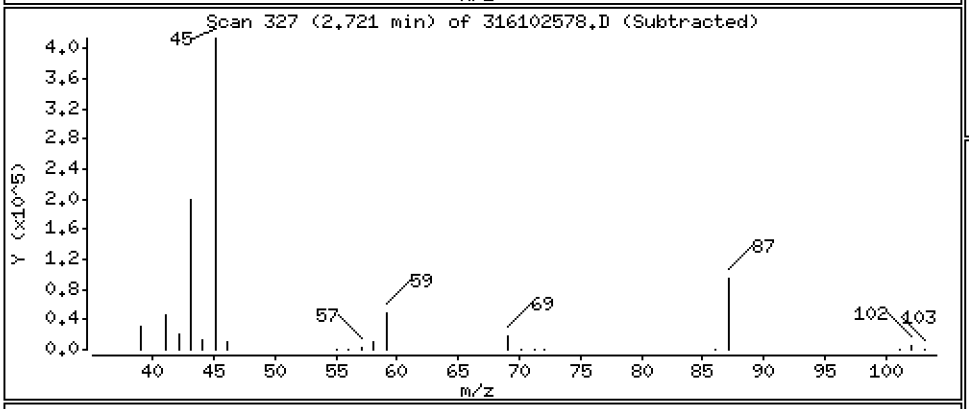
Purge Volume: 5.0 Operator: CJG

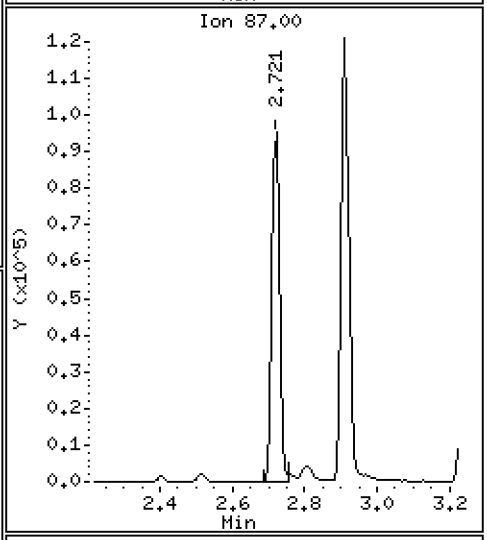
Column phase: DB-VRX Column diameter: 0.25

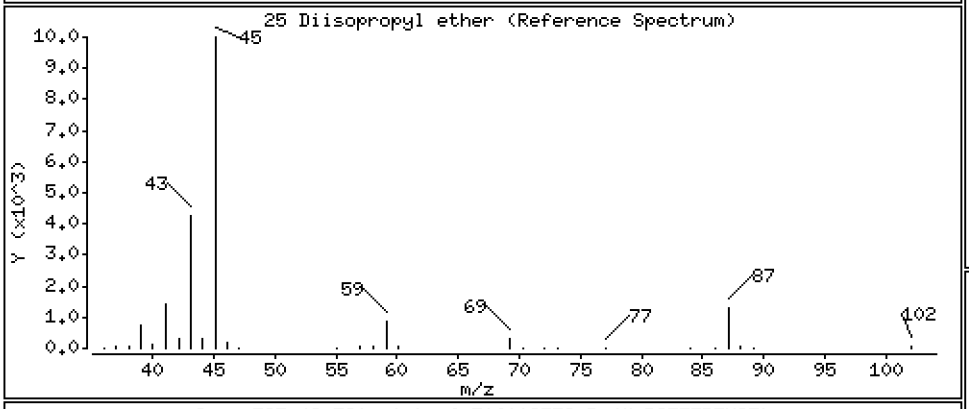
25 Diisopropyl ether Concentration: 22.5977 ug/L

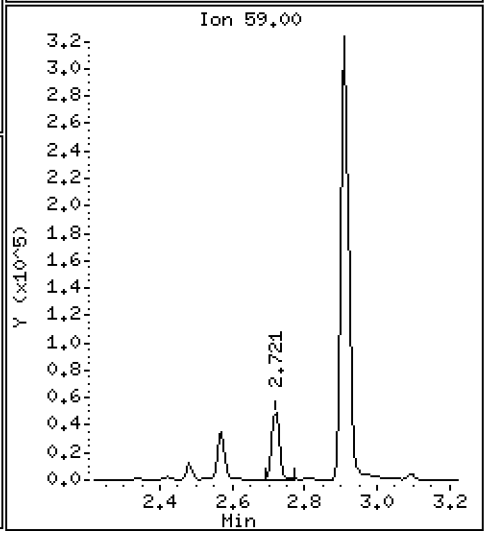


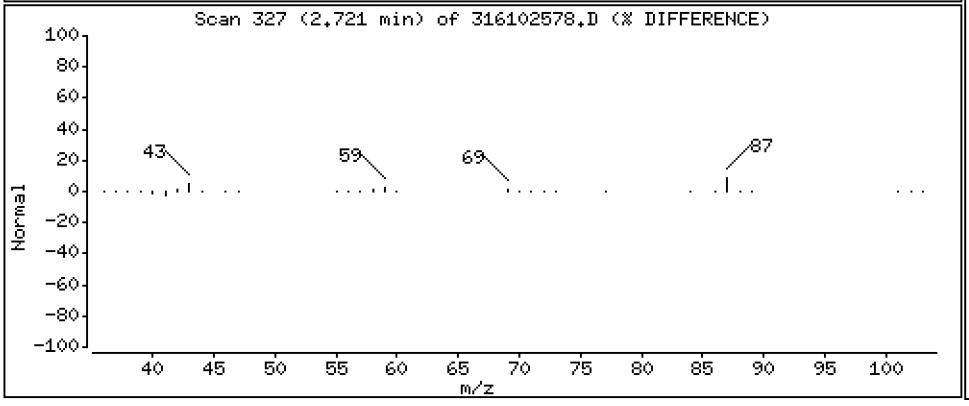












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 38

Date : 26-OCT-2016 07:52

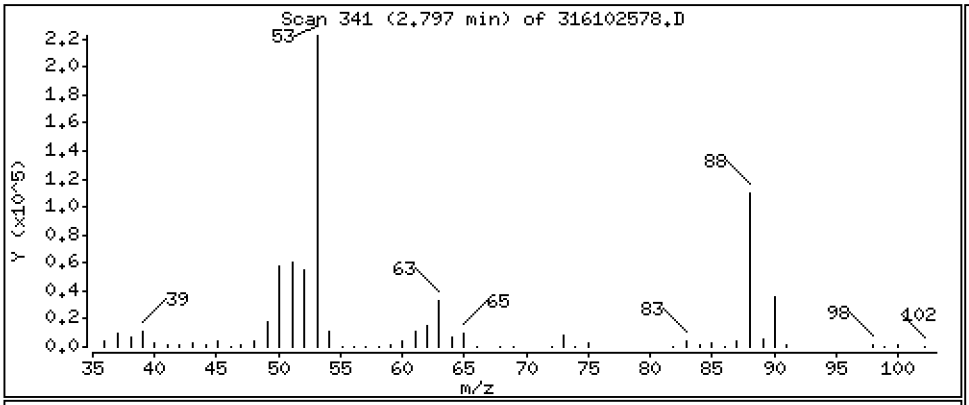
Client ID: 2184163001MSD Instrument: ms03.i

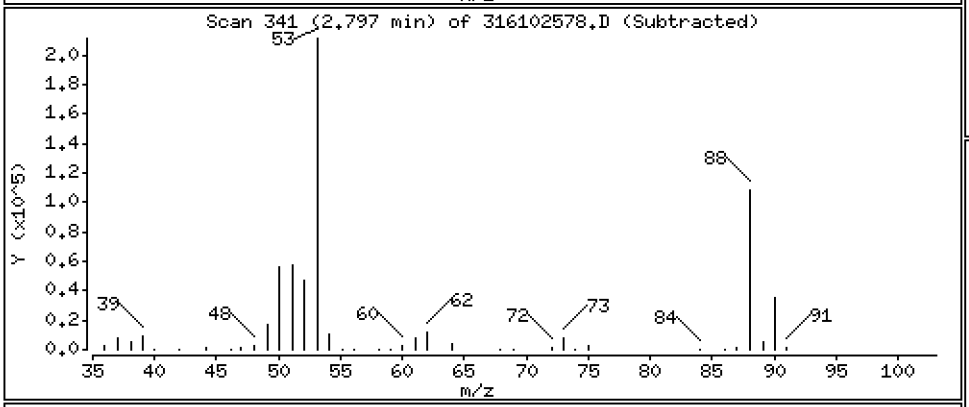
Sample Info: 2429374;;1;3;;MSD;1;

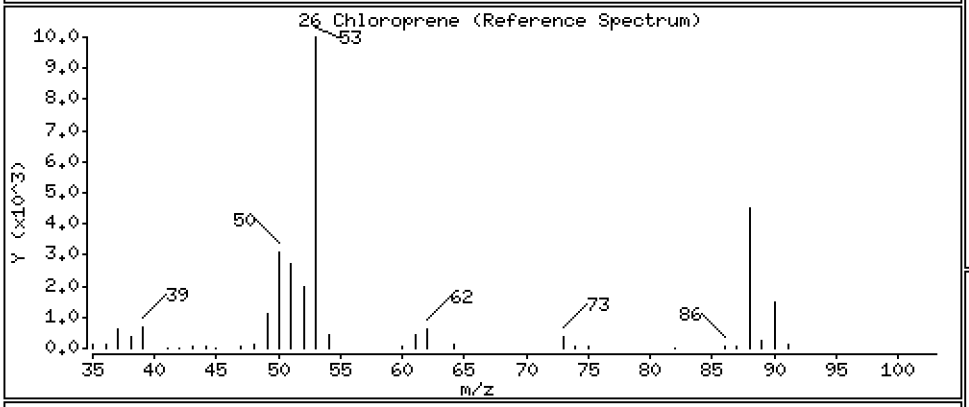
Purge Volume: 5.0 Operator: CJG

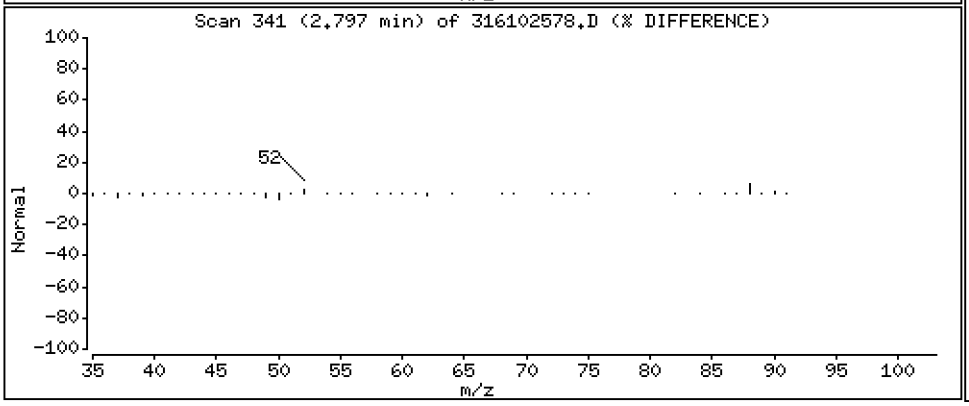
Column phase: DB-VRX Column diameter: 0.25

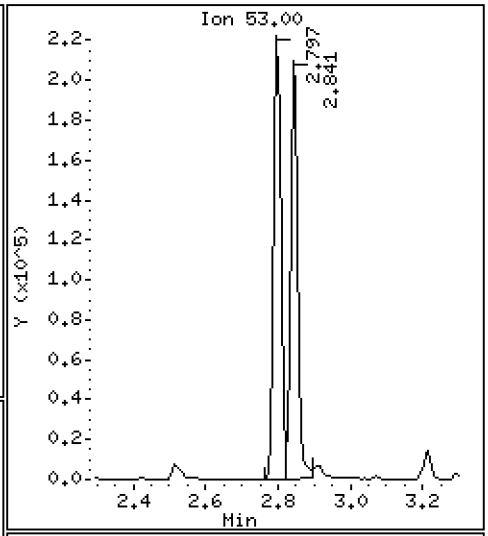
26 Chloroprene Concentration: 24.5737 ug/L

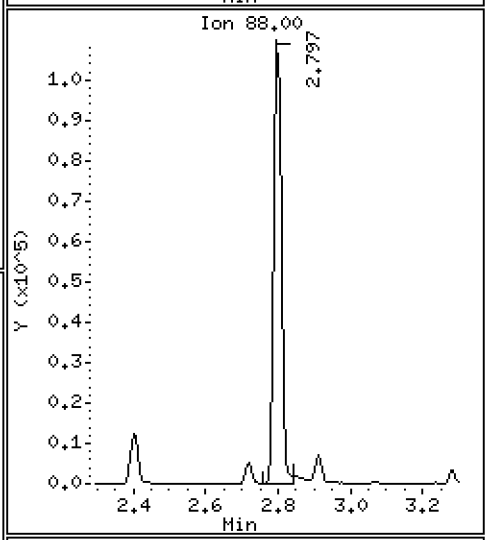


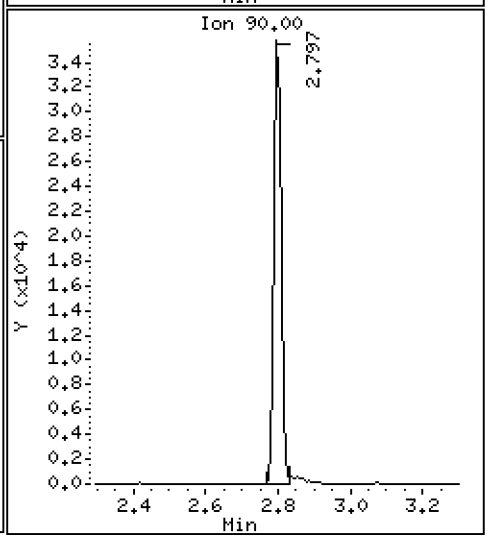












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 39

Date : 26-OCT-2016 07:52

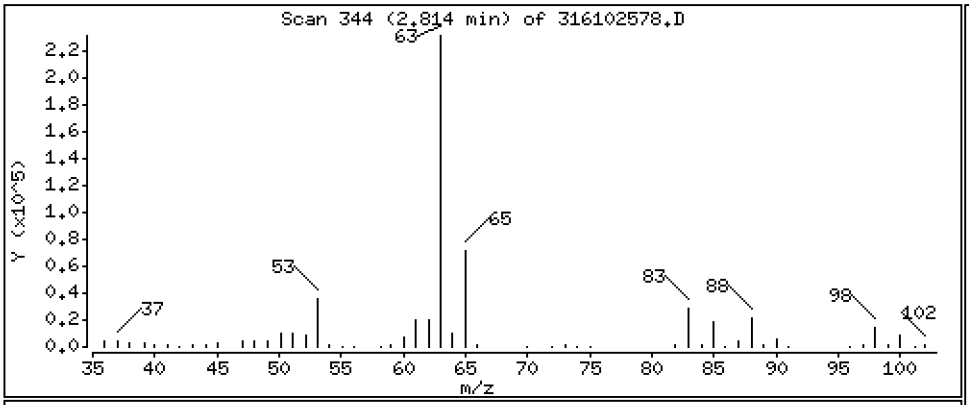
Client ID: 2184163001MSD Instrument: ms03.i

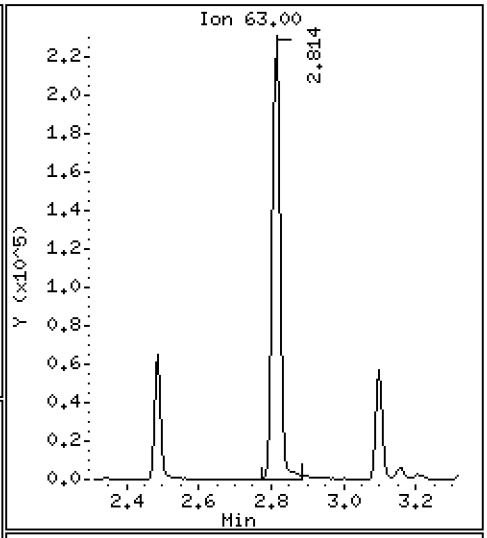
Sample Info: 2429374;;1;3;;MSD;1;

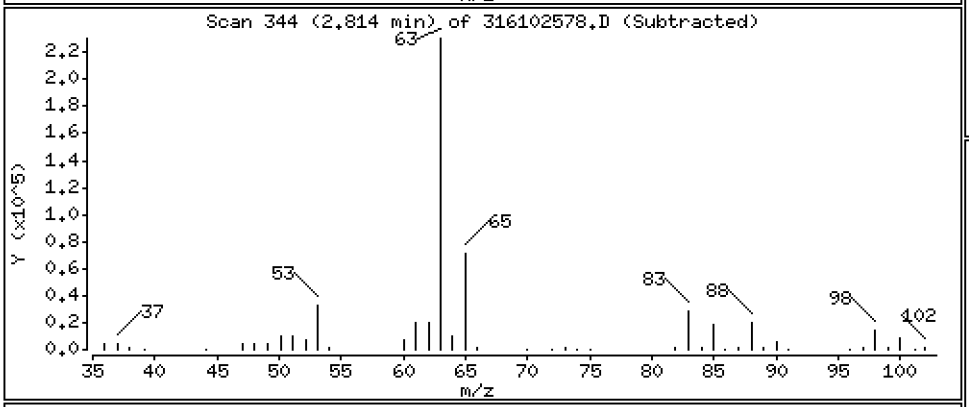
Purge Volume: 5.0 Operator: CJG

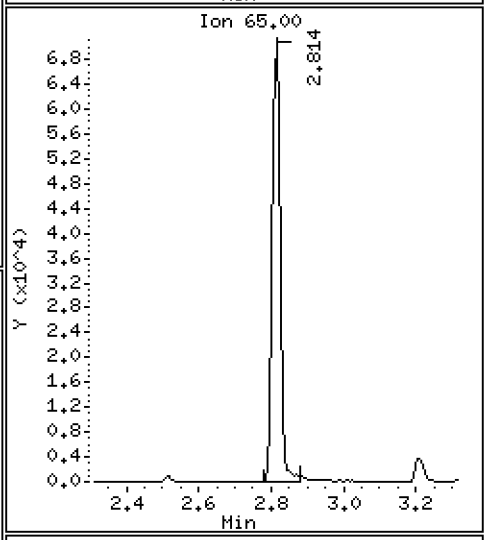
Column phase: DB-VRX Column diameter: 0.25

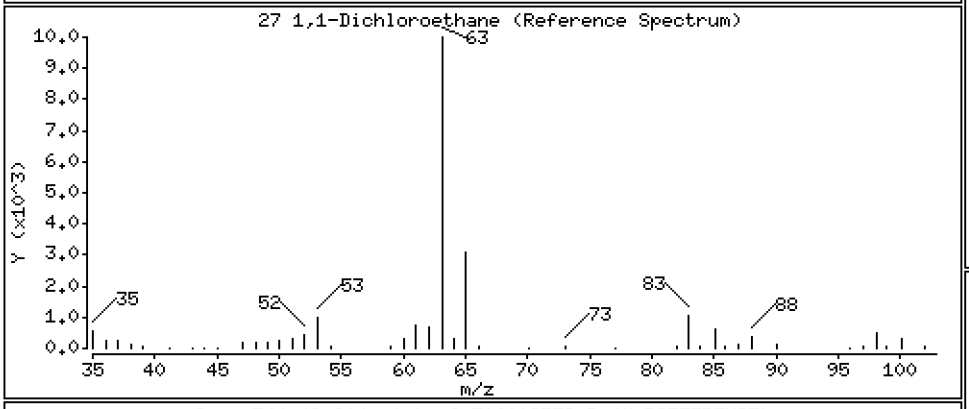
27 1,1-Dichloroethane Concentration: 20.9931 ug/L

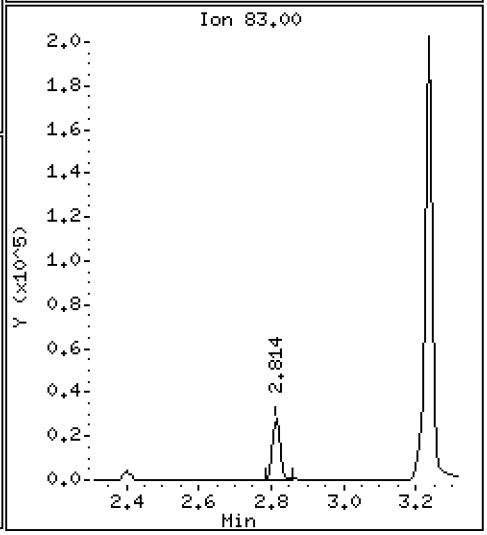


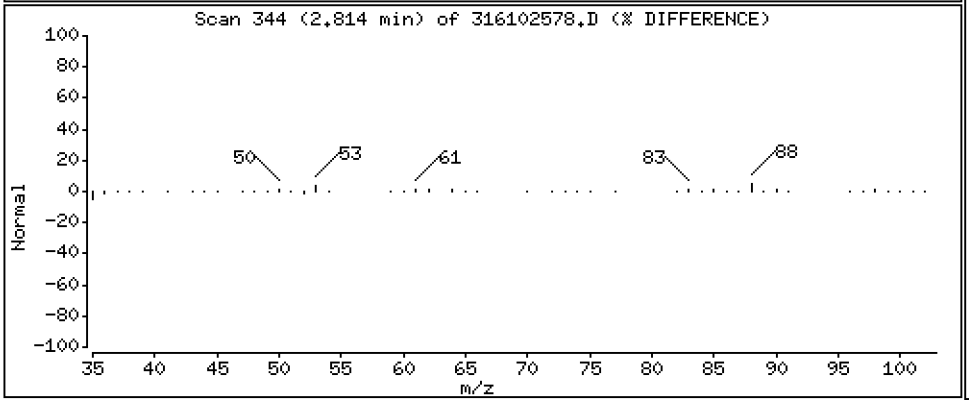












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 40

Date : 26-OCT-2016 07:52

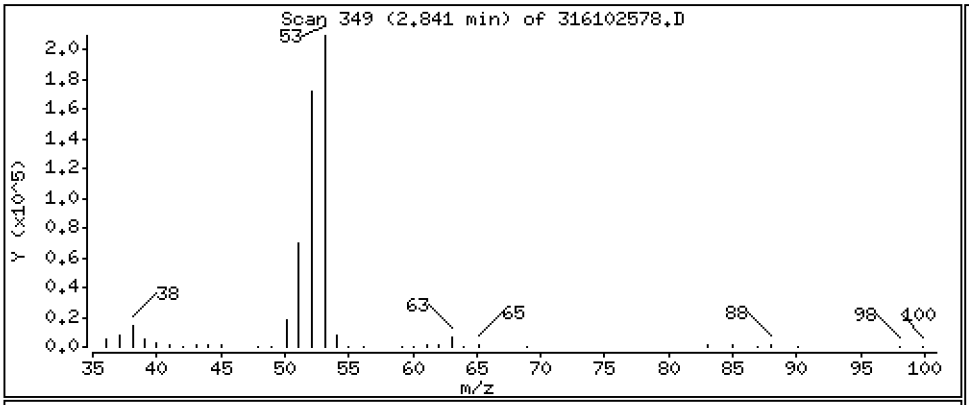
Client ID: 2184163001MSD Instrument: ms03.i

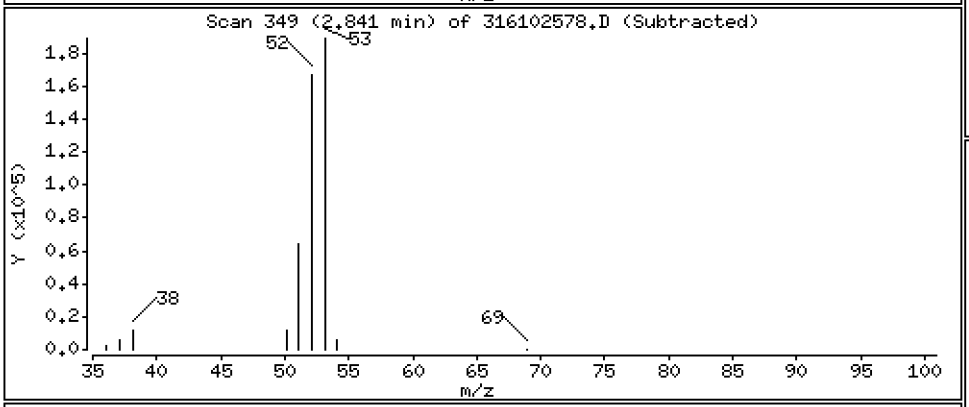
Sample Info: 2429374;;1;3;;MSD;1;

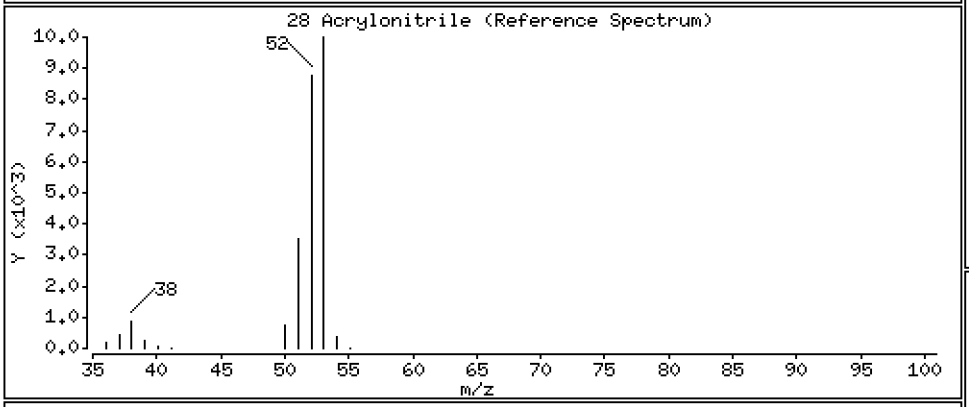
Purge Volume: 5.0 Operator: CJG

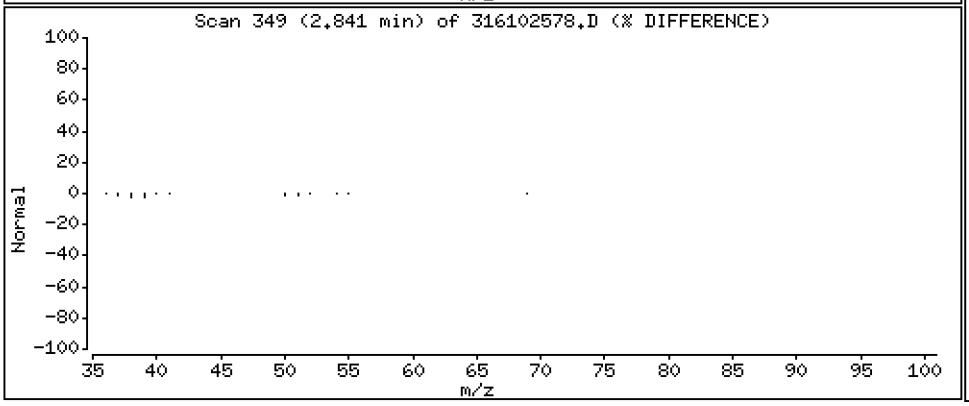
Column phase: DB-VRX Column diameter: 0.25

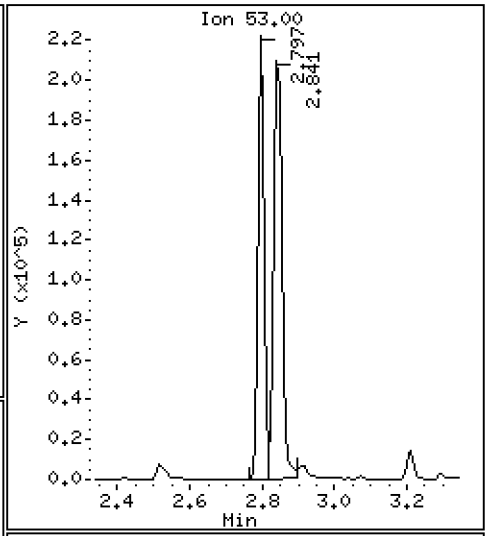
28 Acrylonitrile Concentration: 113.748 ug/L

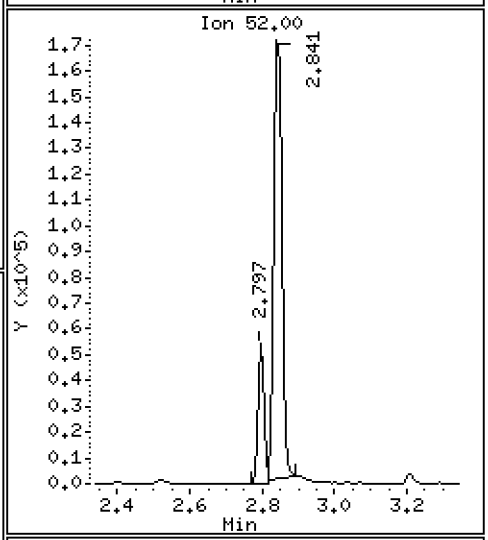


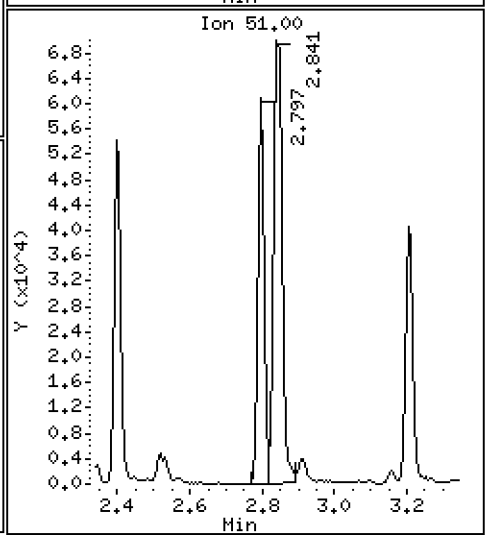












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 41

Date : 26-OCT-2016 07:52

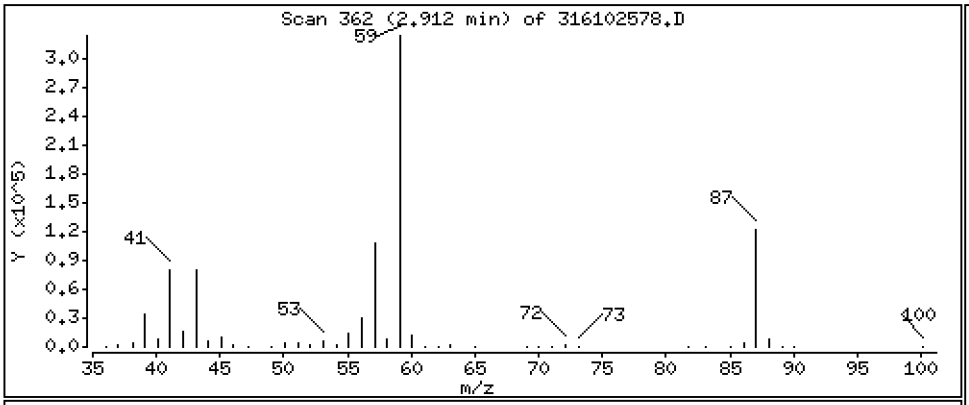
Client ID: 2184163001MSD Instrument: ms03.i

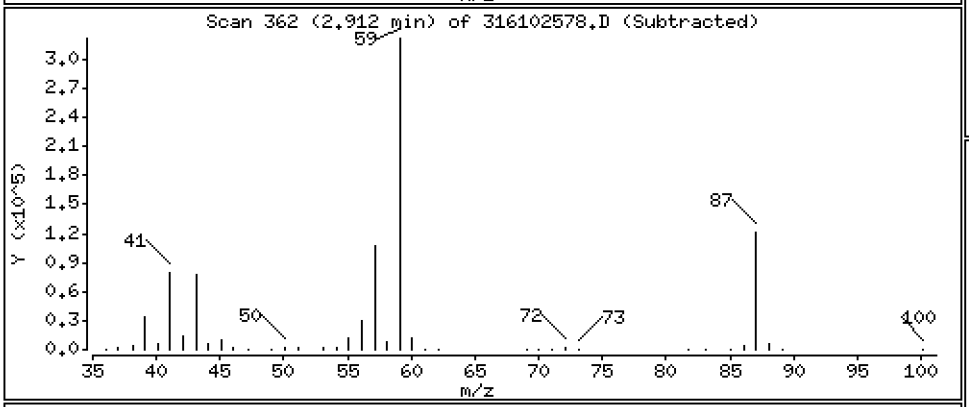
Sample Info: 2429374;;1;3;;MSD;1;

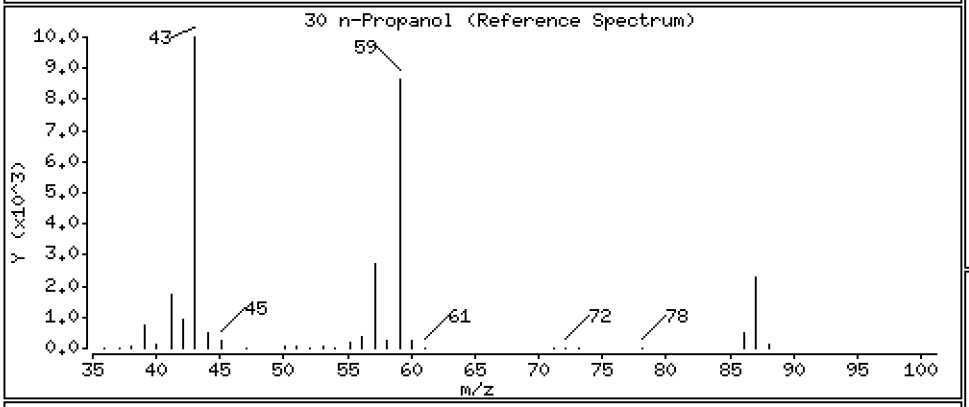
Purge Volume: 5.0 Operator: CJG

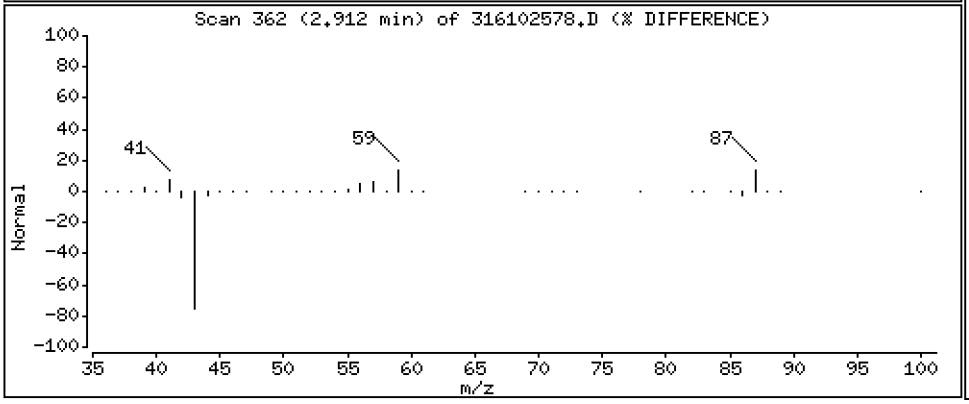
Column phase: DB-VRX Column diameter: 0.25

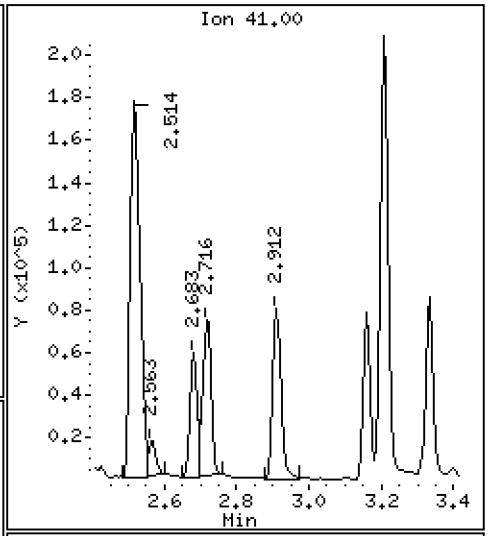
30 n-Propanol Concentration: 253.433 ug/L

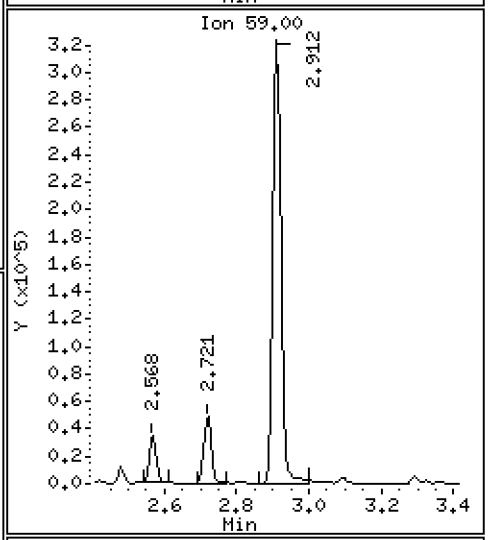


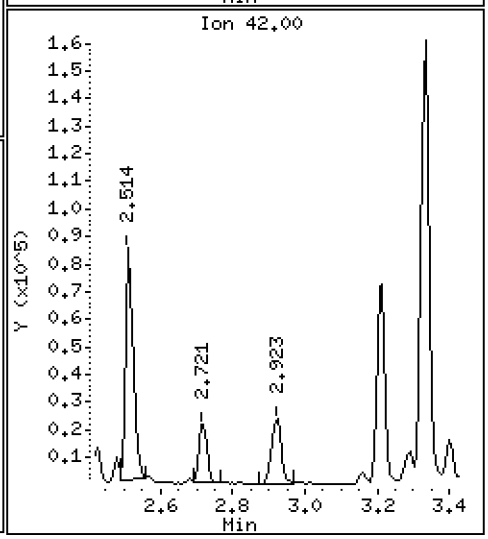












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 42

Date : 26-OCT-2016 07:52

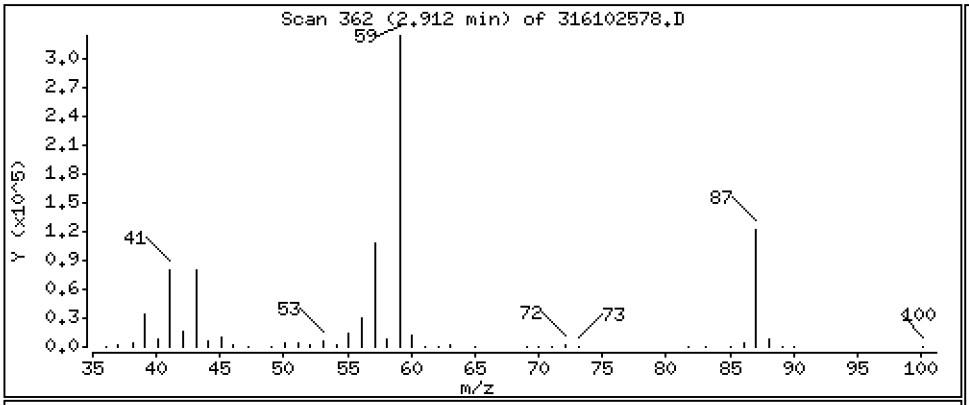
Client ID: 2184163001MSD Instrument: ms03.i

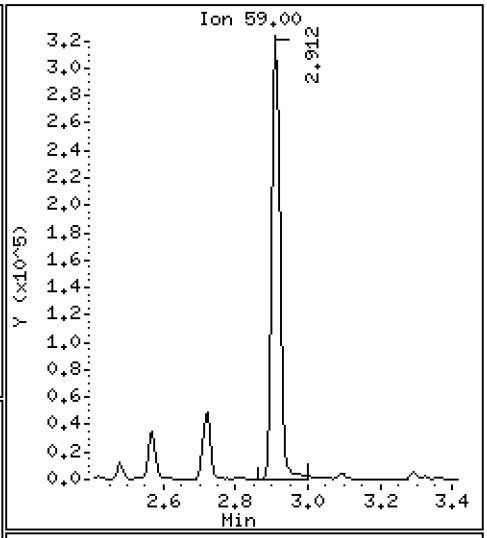
Sample Info: 2429374;;1;3;;MSD;1;

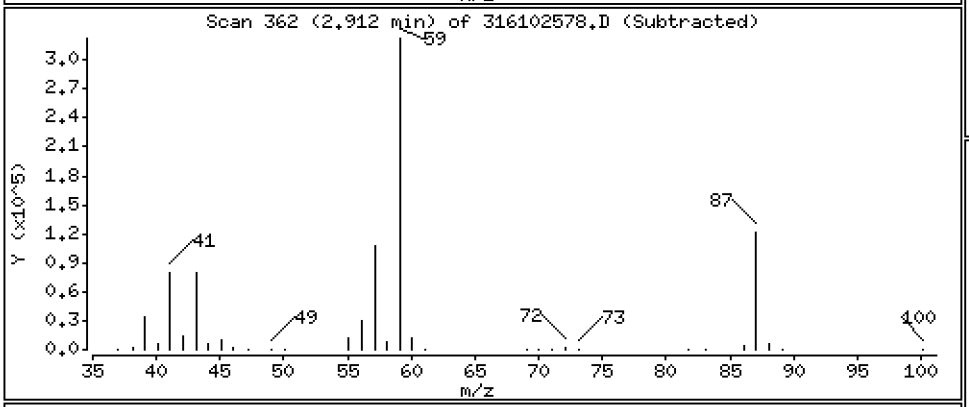
Purge Volume: 5.0 Operator: CJG

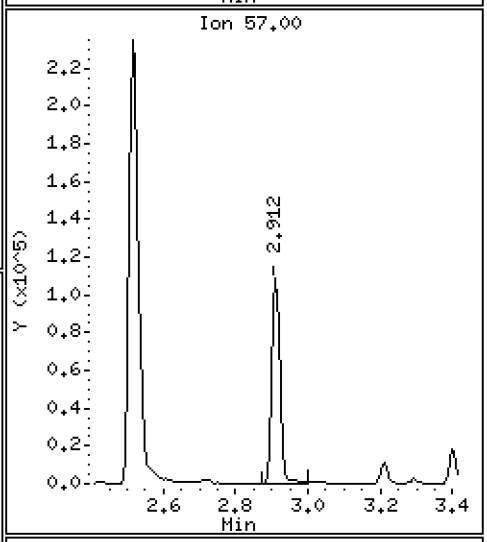
Column phase: DB-VRX Column diameter: 0.25

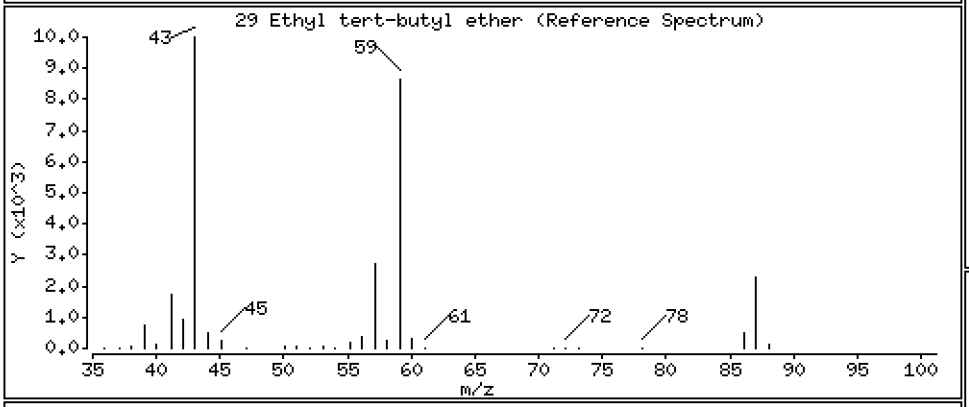
29 Ethyl tert-butyl ether Concentration: 21.0426 ug/L

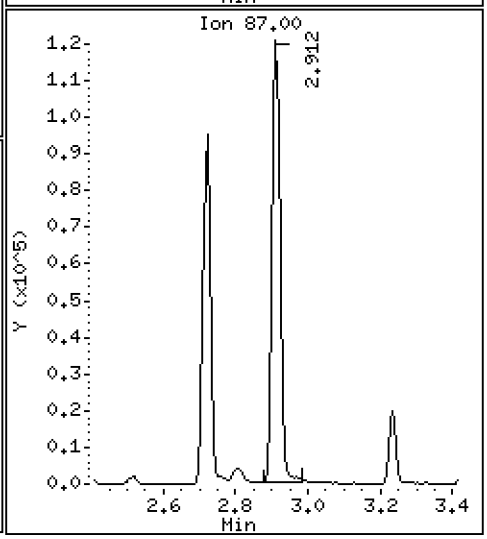


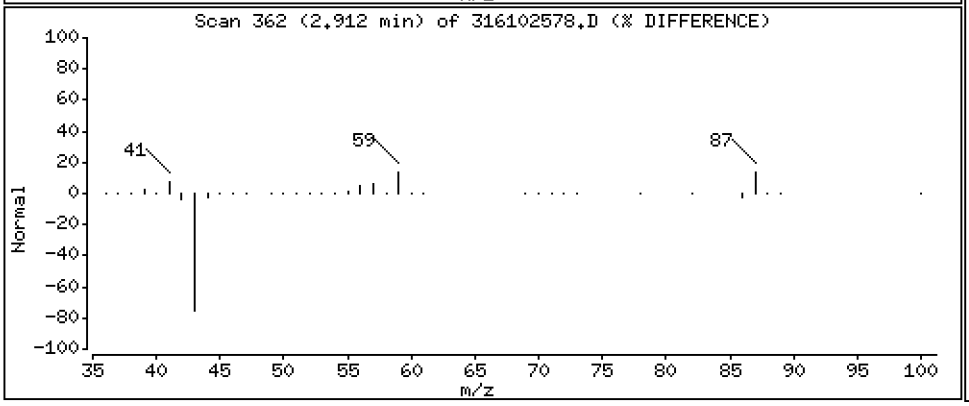












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 43

Date : 26-OCT-2016 07:52

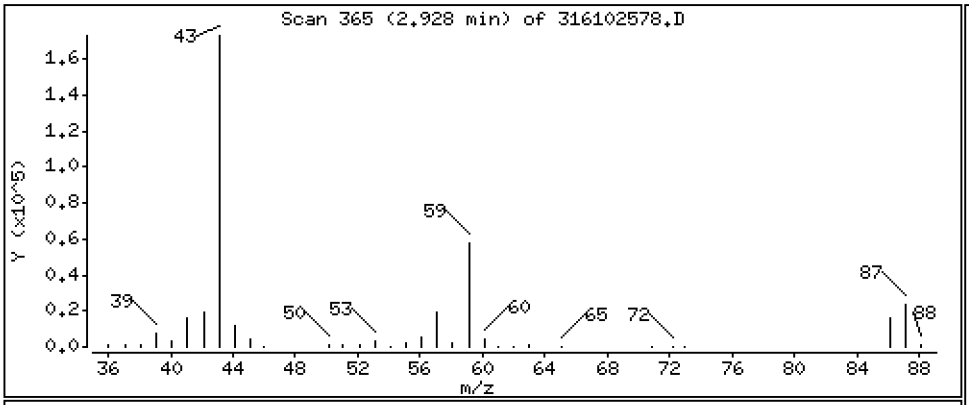
Client ID: 2184163001MSD Instrument: ms03.i

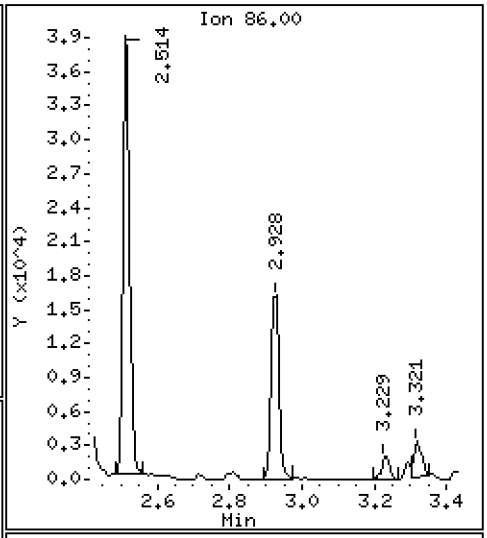
Sample Info: 2429374;;1;3;;MSD;1;

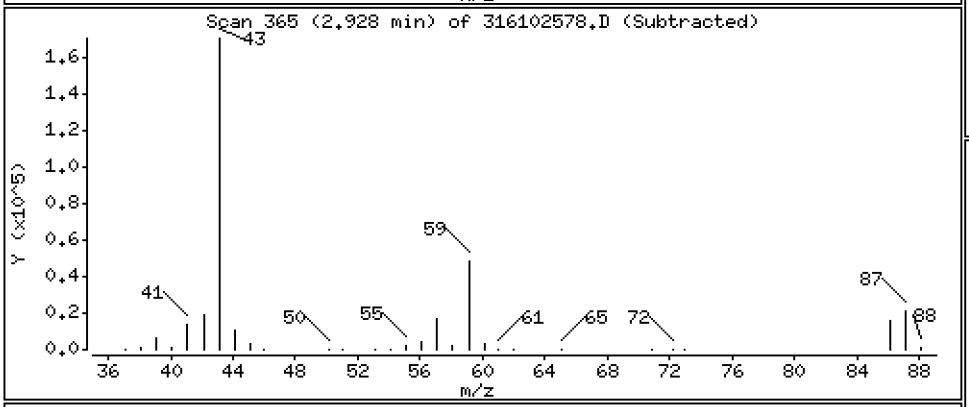
Purge Volume: 5.0 Operator: CJG

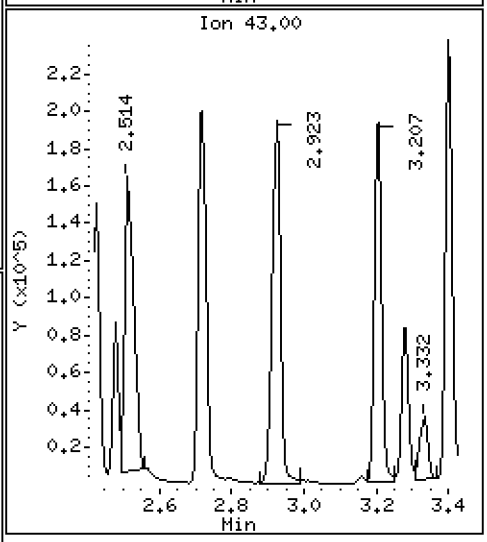
Column phase: DB-VRX Column diameter: 0.25

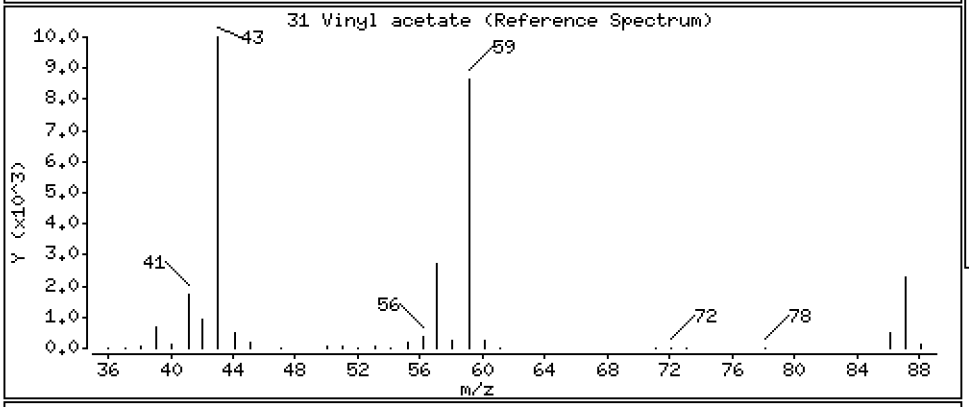
31 Vinyl acetate Concentration: 13.4068 ug/L

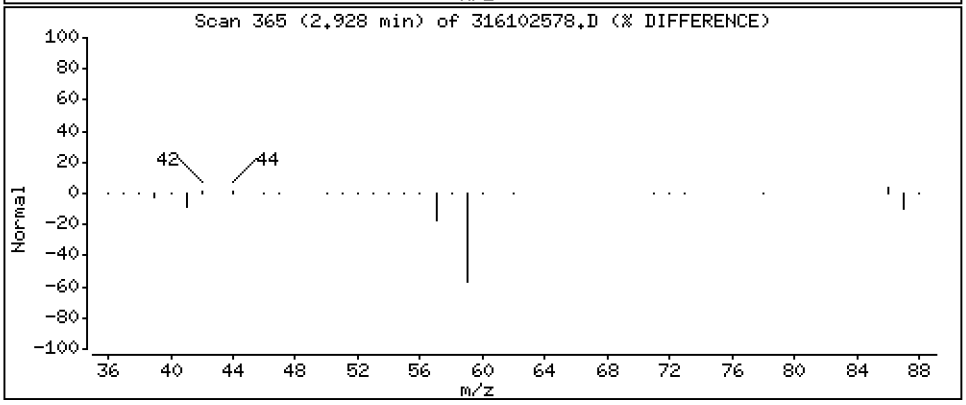












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 44

Date : 26-OCT-2016 07:52

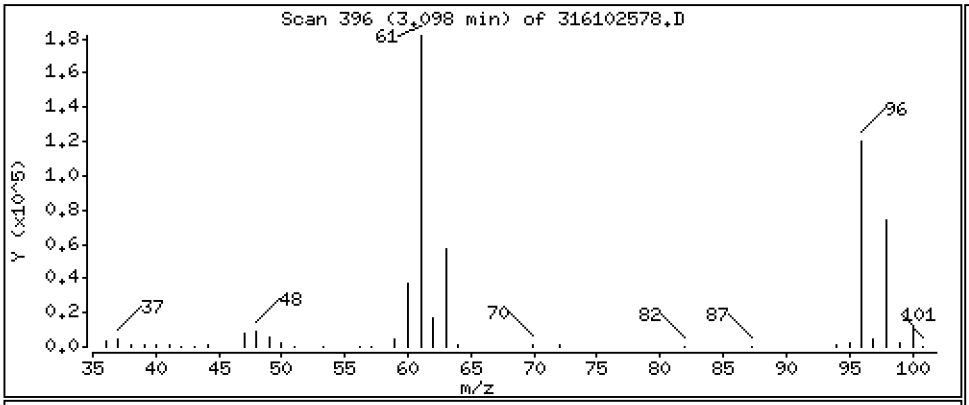
Client ID: 2184163001MSD Instrument: ms03.i

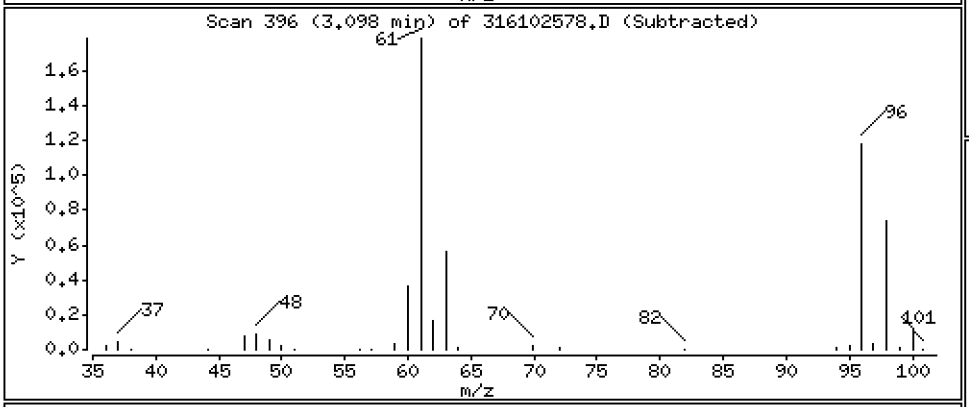
Sample Info: 2429374;;1;3;;MSD;1;

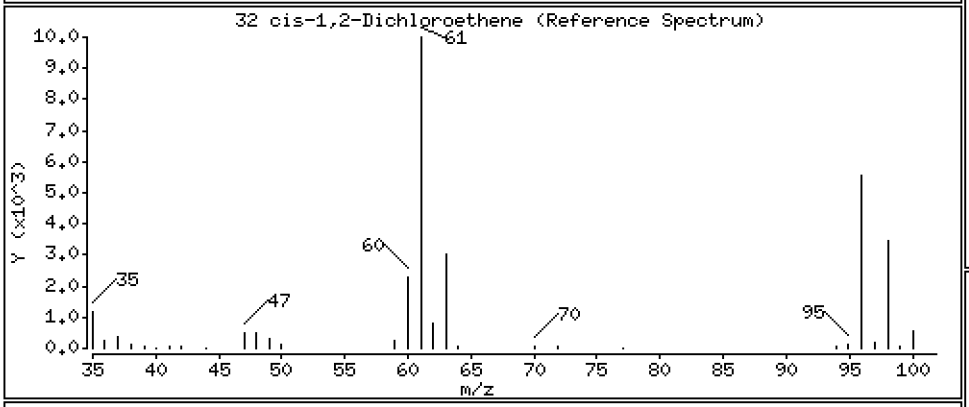
Purge Volume: 5.0 Operator: CJG

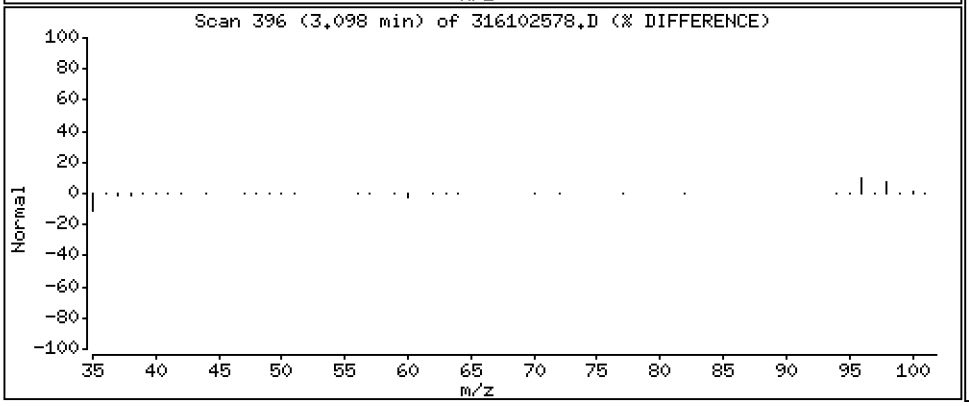
Column phase: DB-VRX Column diameter: 0.25

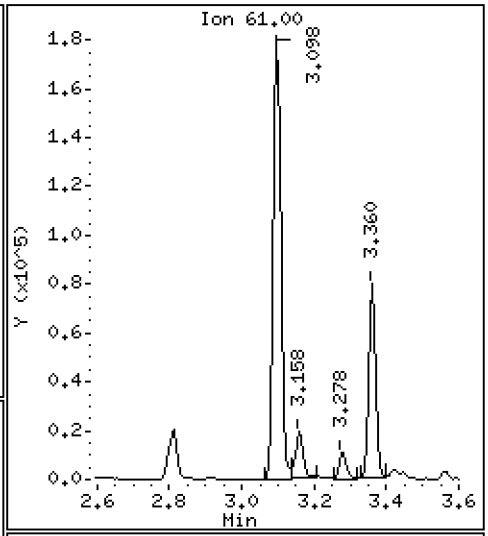
32 cis-1,2-Dichloroethene Concentration: 20.7359 ug/L

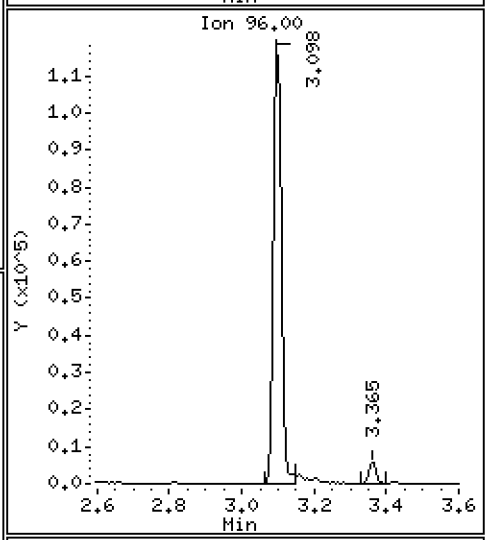


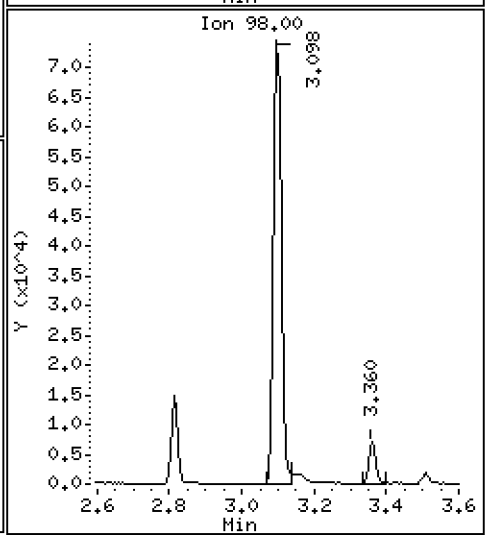












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 45

Date : 26-OCT-2016 07:52

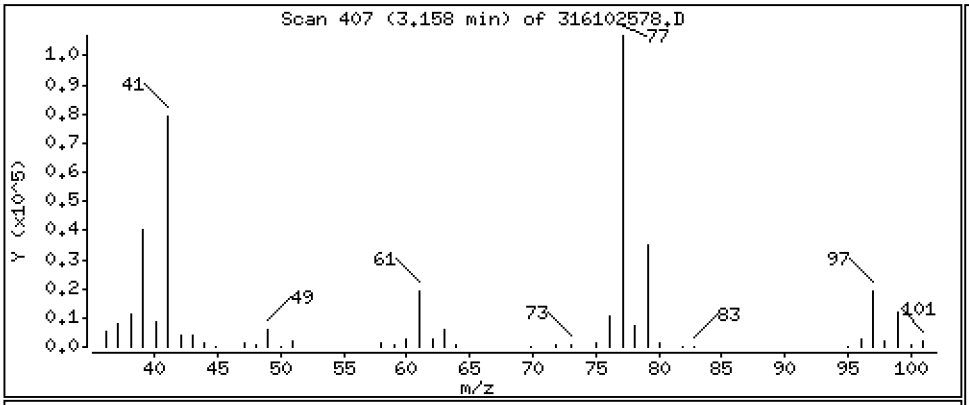
Client ID: 2184163001MSD Instrument: ms03.i

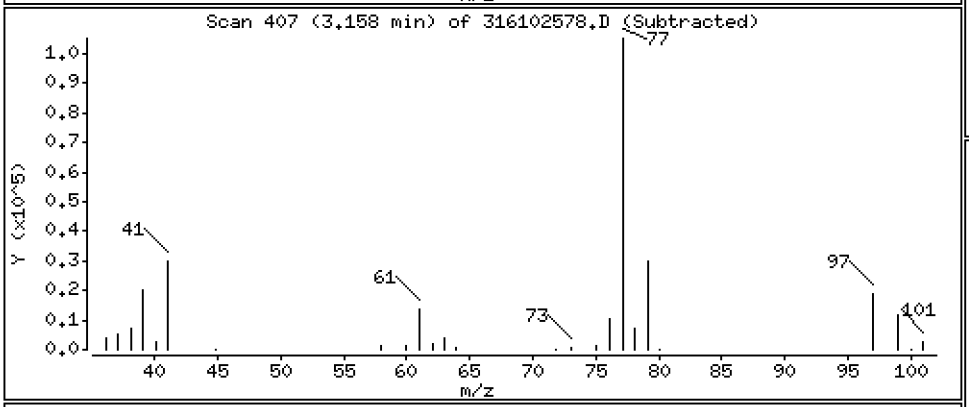
Sample Info: 2429374;;1;3;;MSD;1;

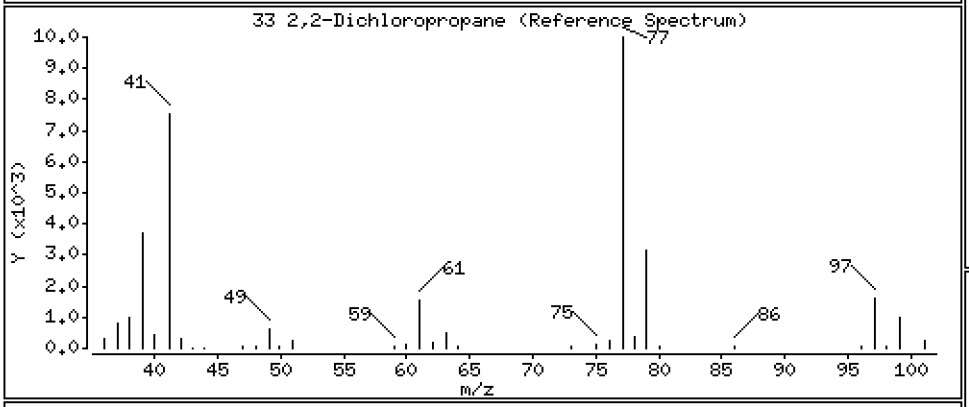
Purge Volume: 5.0 Operator: CJG

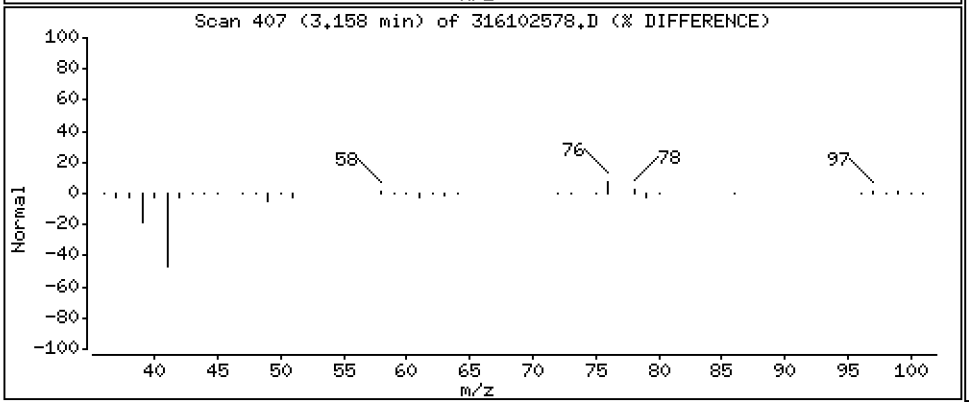
Column phase: DB-VRX Column diameter: 0.25

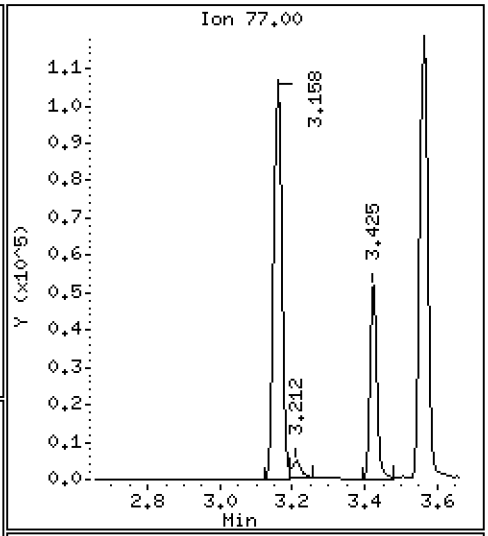
33 2,2-Dichloropropane Concentration: 16.9084 ug/L

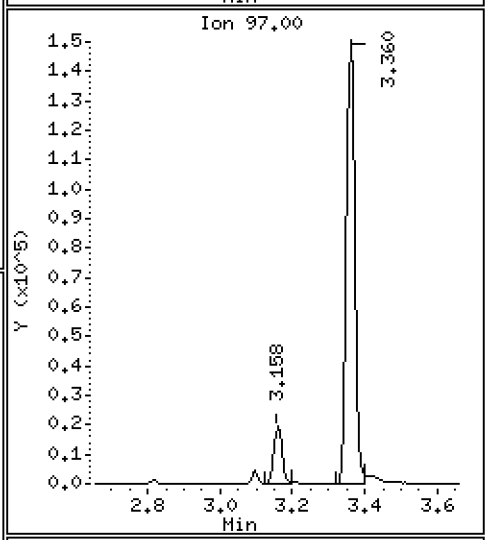


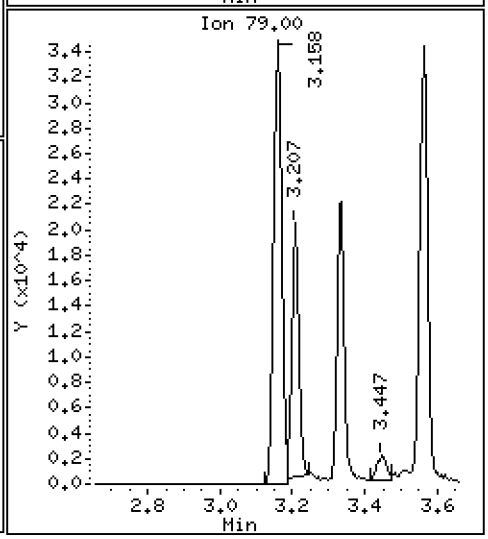












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 46

Date : 26-OCT-2016 07:52

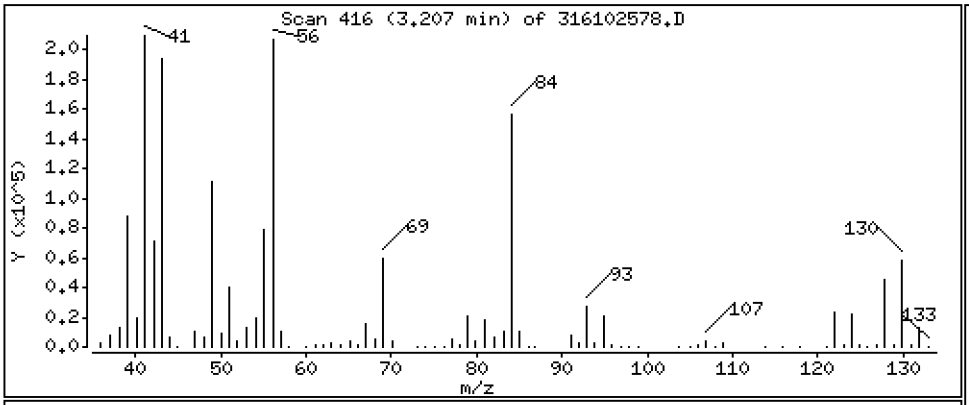
Client ID: 2184163001MSD Instrument: ms03.i

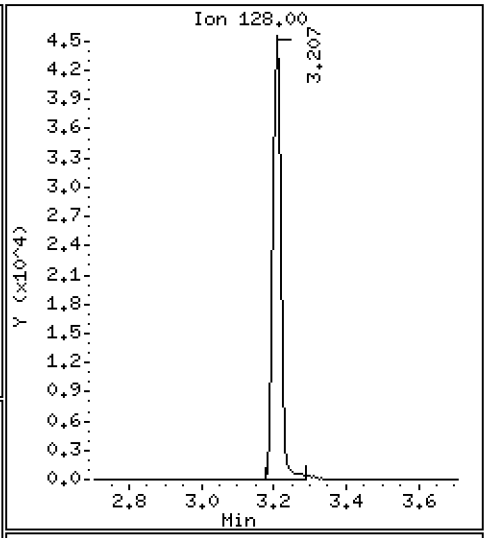
Sample Info: 2429374;;1;3;;MSD;1;

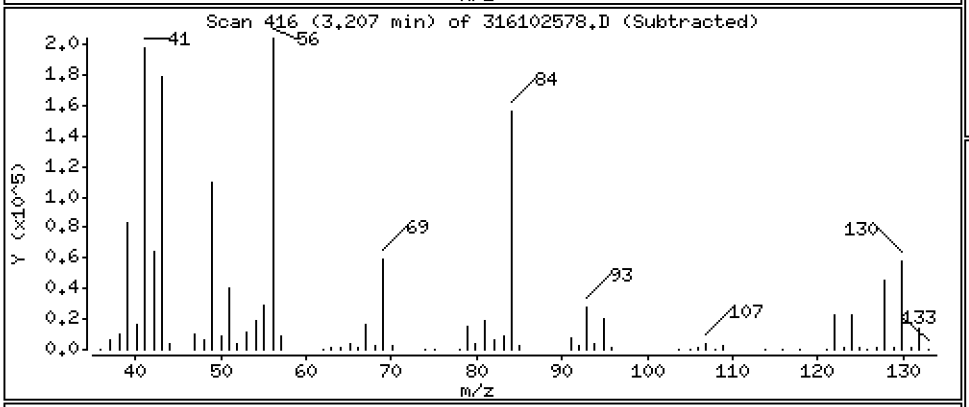
Purge Volume: 5.0 Operator: CJG

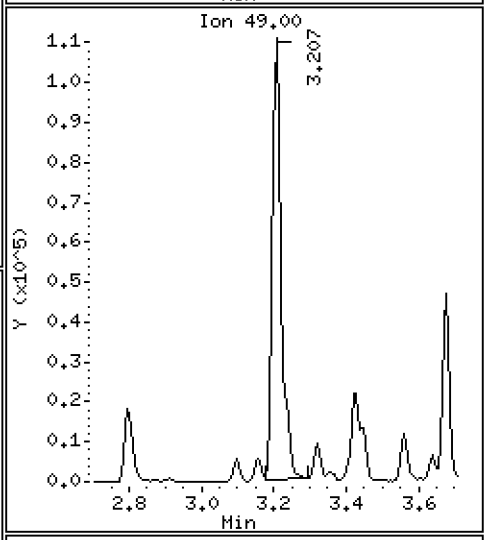
Column phase: DB-VRX Column diameter: 0.25

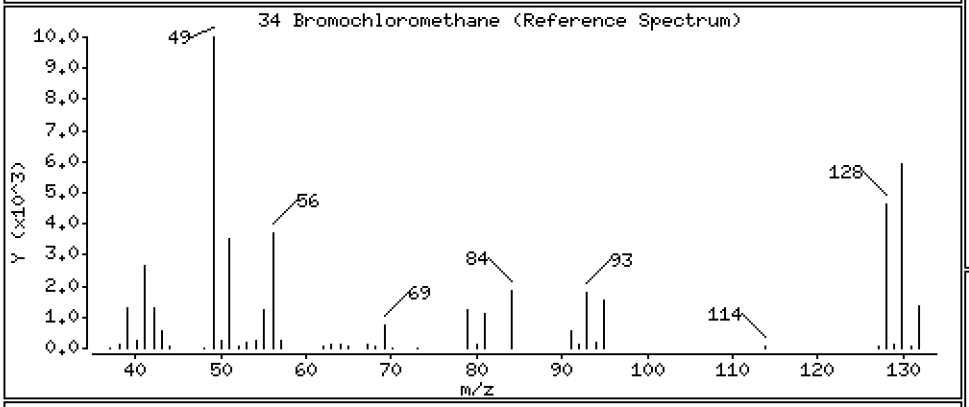
34 Bromochloromethane Concentration: 20.2511 ug/L

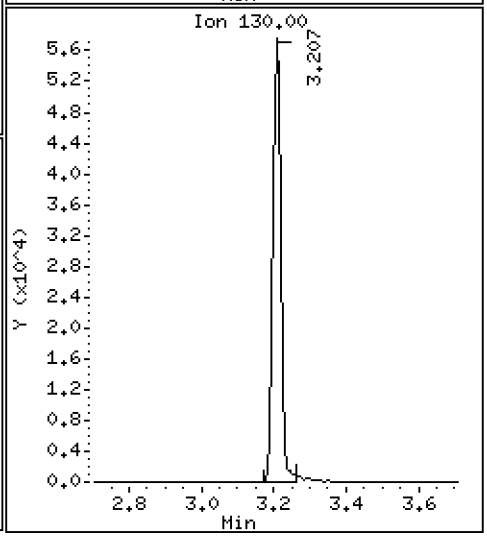


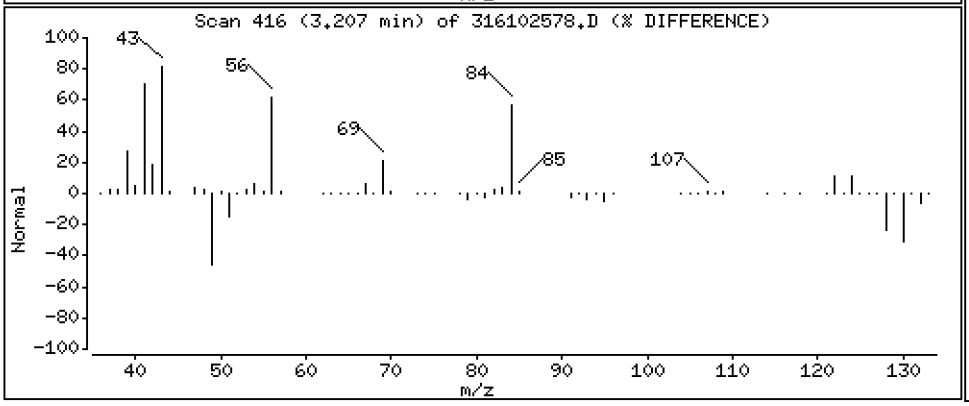












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 47

Date : 26-OCT-2016 07:52

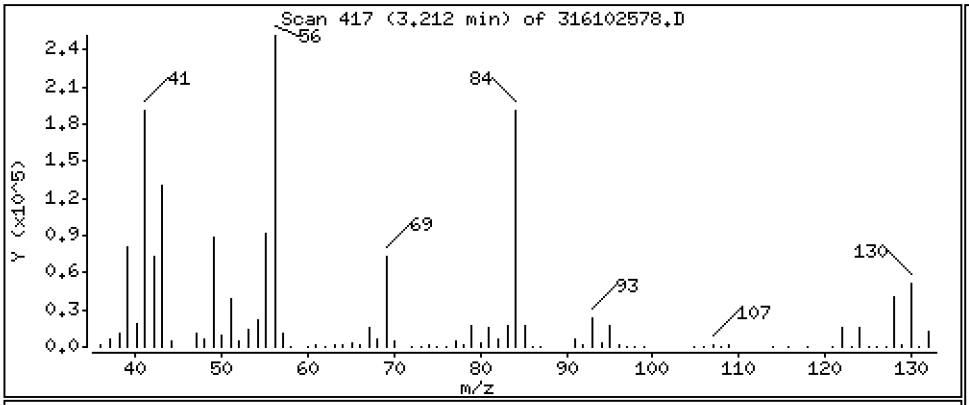
Client ID: 2184163001MSD Instrument: ms03.i

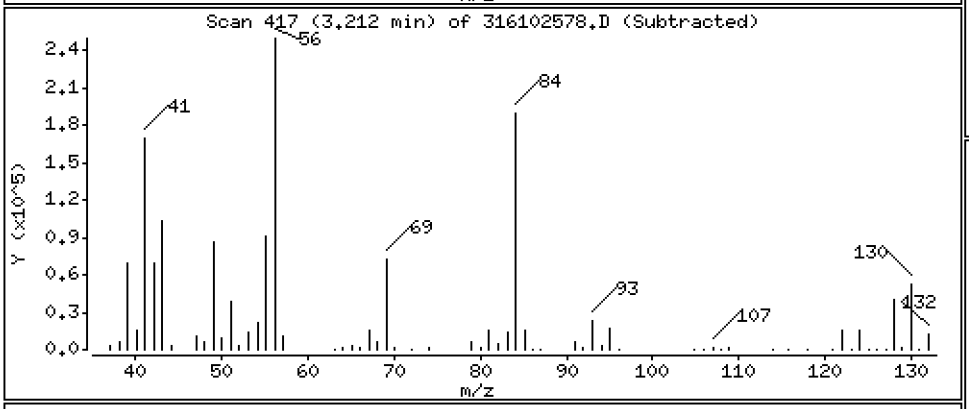
Sample Info: 2429374;;1;3;;MSD;1;

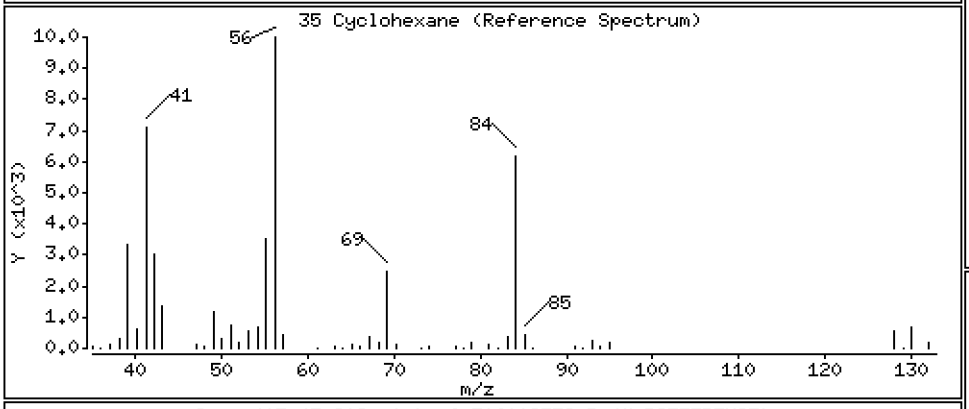
Purge Volume: 5.0 Operator: CJG

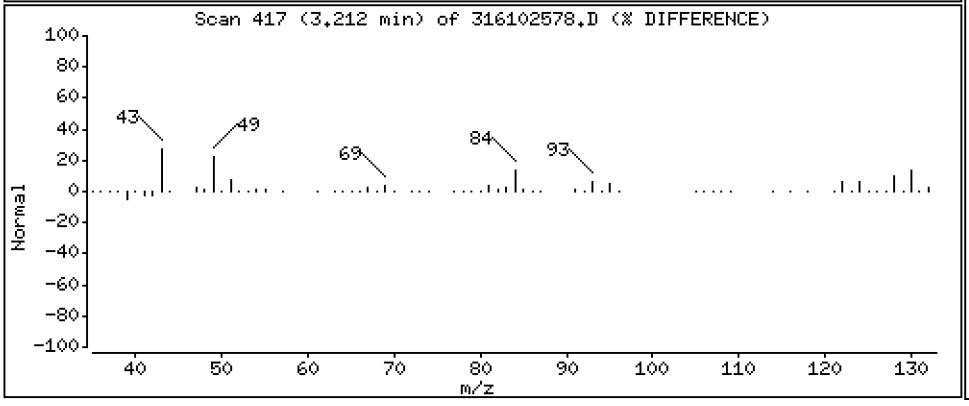
Column phase: DB-VRX Column diameter: 0.25

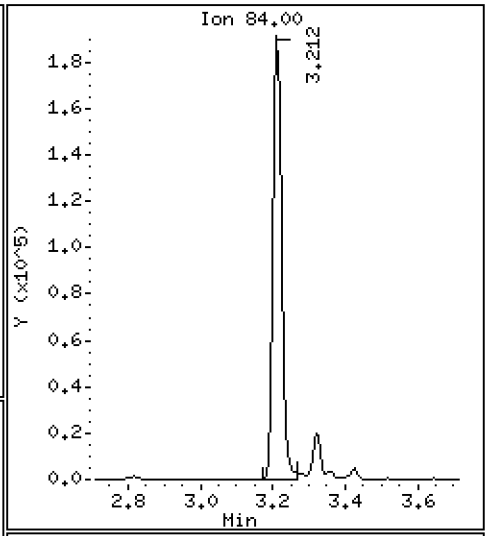
35 Cyclohexane Concentration: 23.4104 ug/L

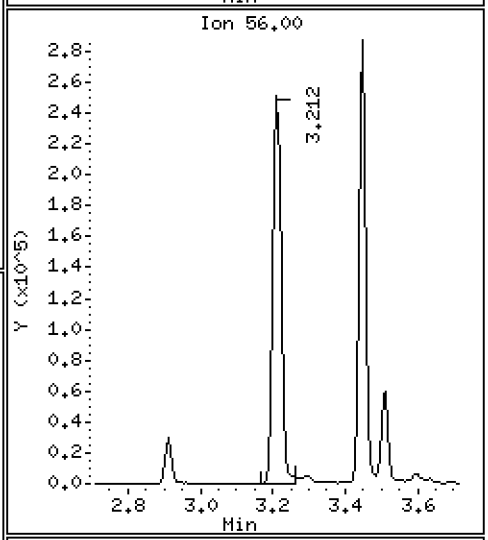


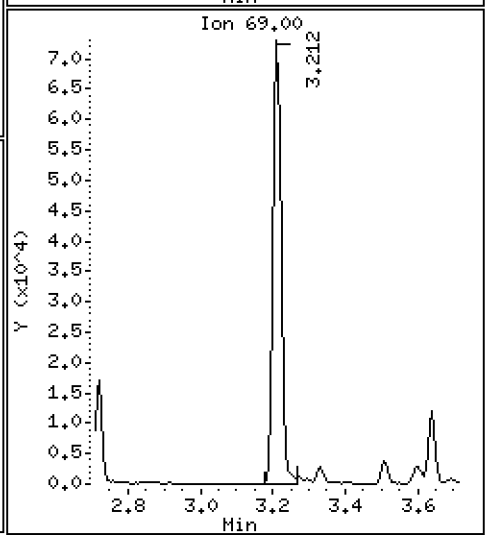












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 48

Date : 26-OCT-2016 07:52

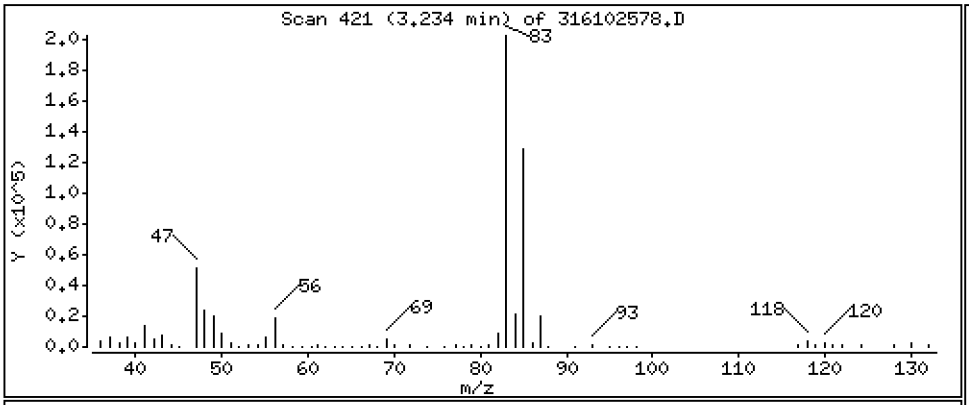
Client ID: 2184163001MSD Instrument: ms03.i

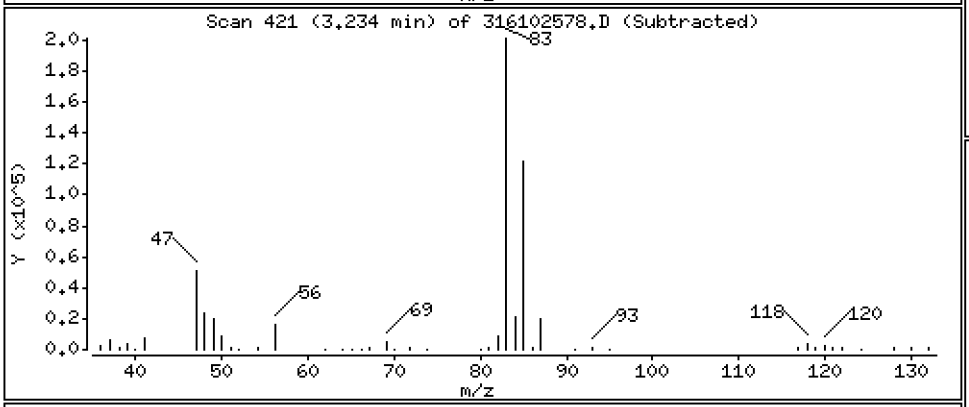
Sample Info: 2429374;;1;3;;MSD;1;

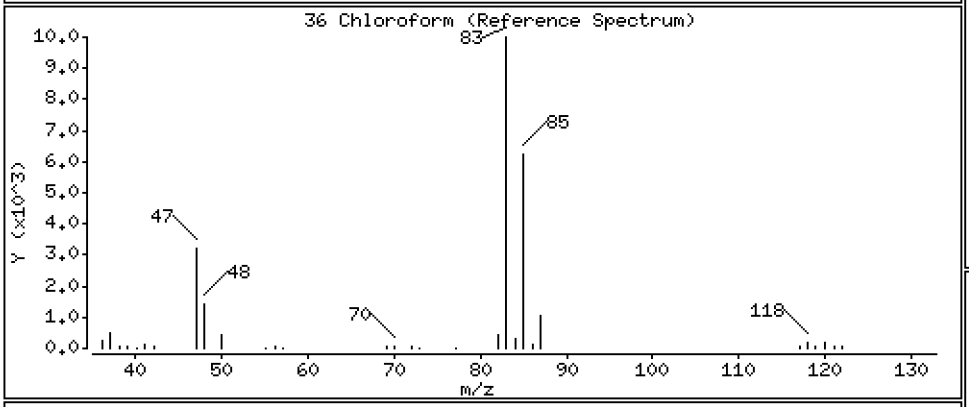
Purge Volume: 5.0 Operator: CJG

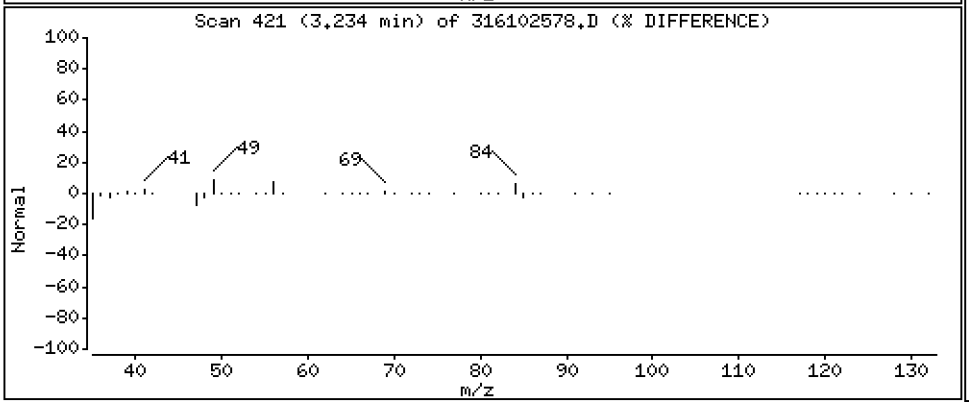
Column phase: DB-VRX Column diameter: 0.25

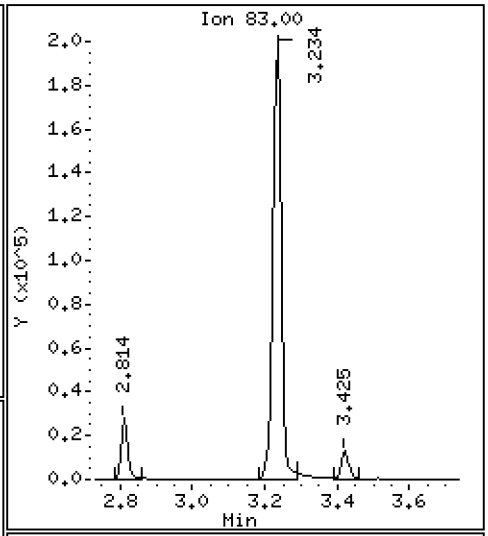
36 Chloroform Concentration: 20.6997 ug/L

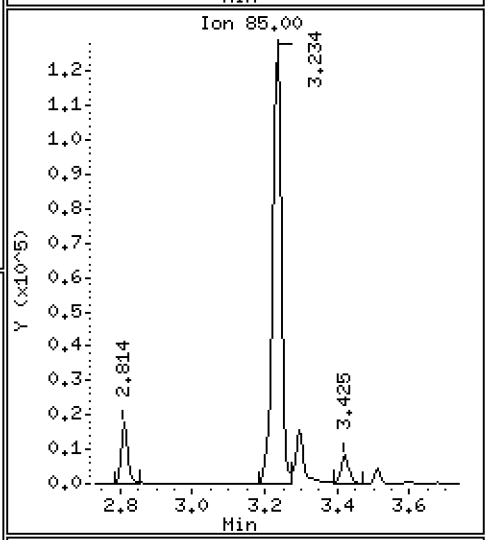


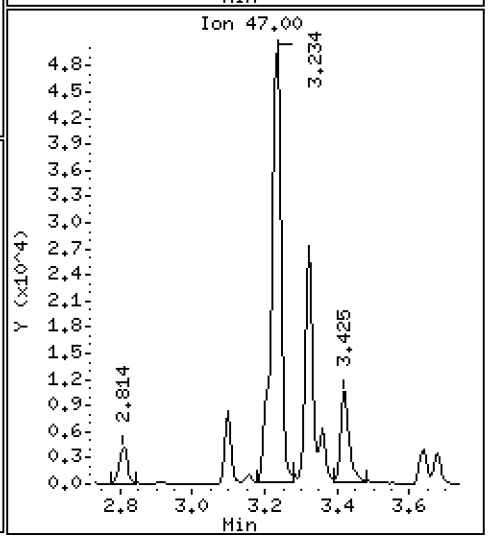












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 49

Date : 26-OCT-2016 07:52

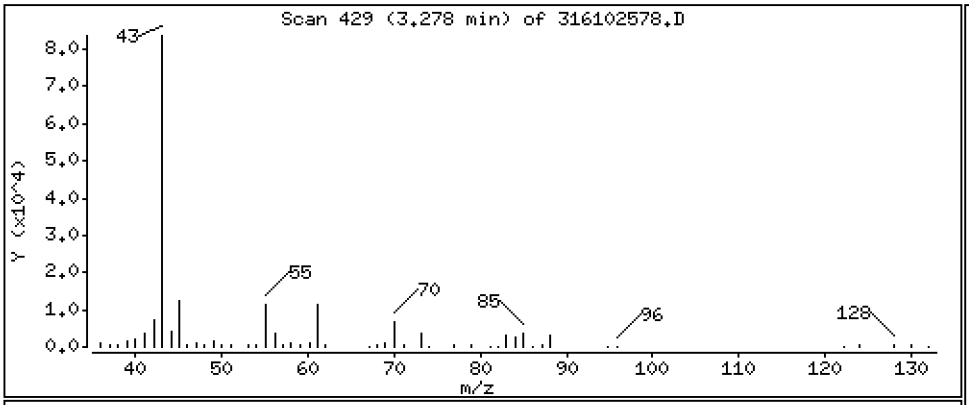
Client ID: 2184163001MSD Instrument: ms03.i

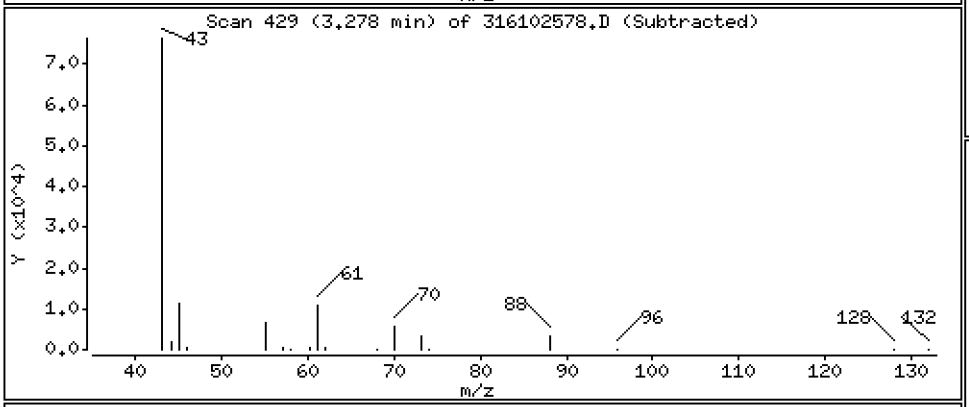
Sample Info: 2429374;;1;3;;MSD;1;

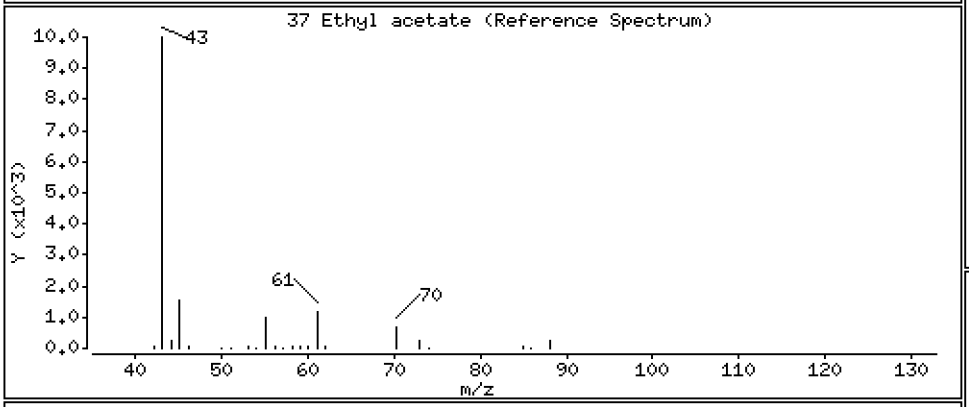
Purge Volume: 5.0 Operator: CJG

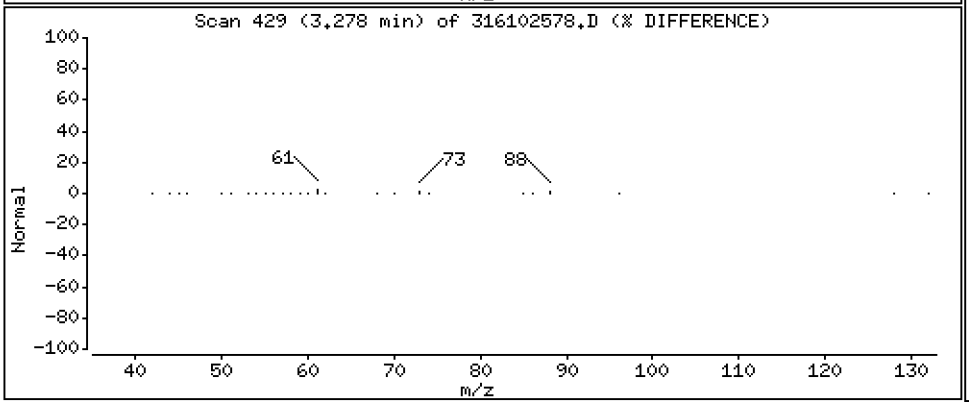
Column phase: DB-VRX Column diameter: 0.25

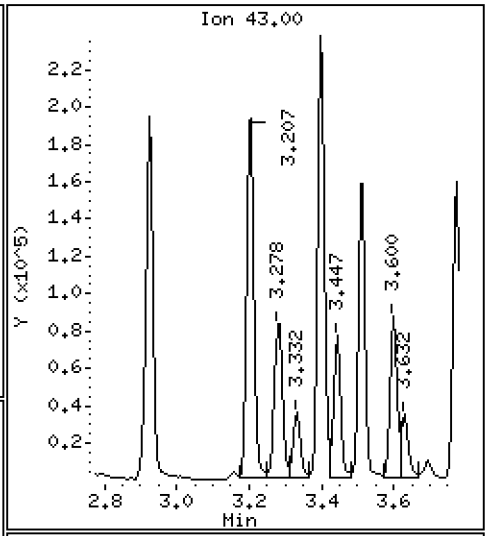
37 Ethyl acetate Concentration: 18.4880 ug/L

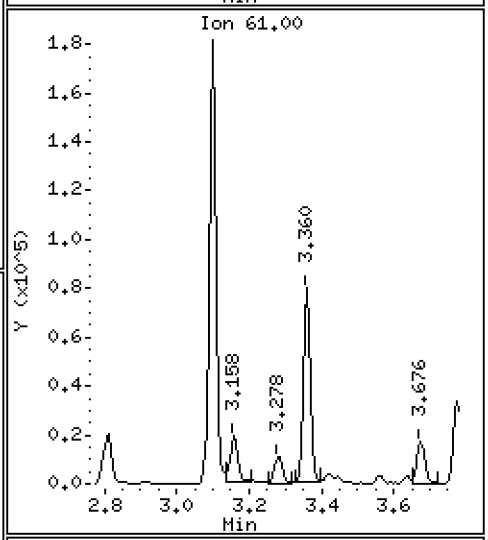


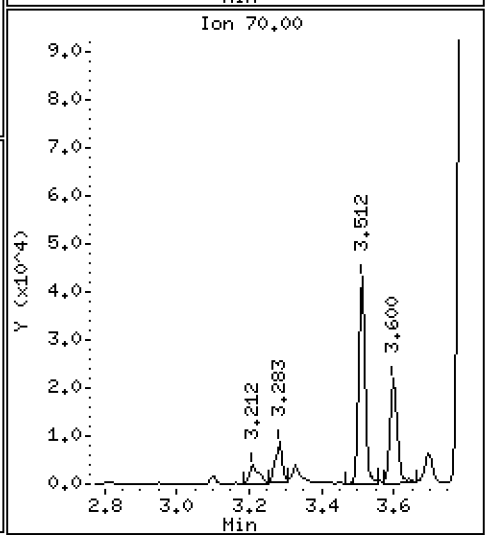












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 50

Date : 26-OCT-2016 07:52

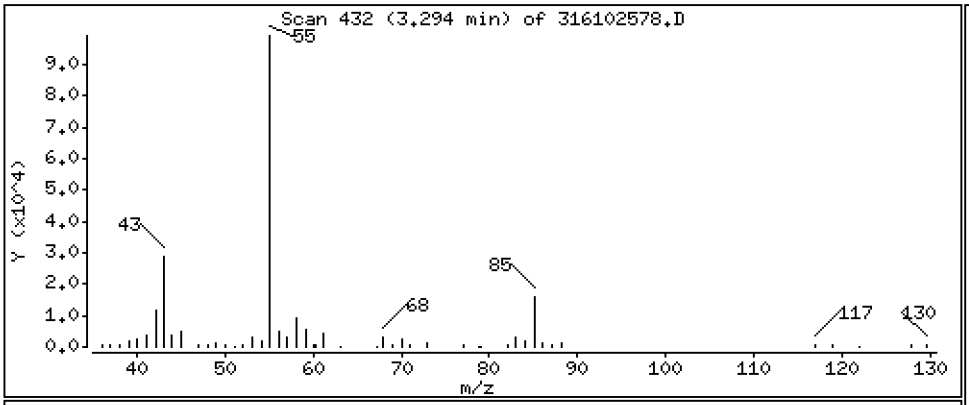
Client ID: 2184163001MSD Instrument: ms03.i

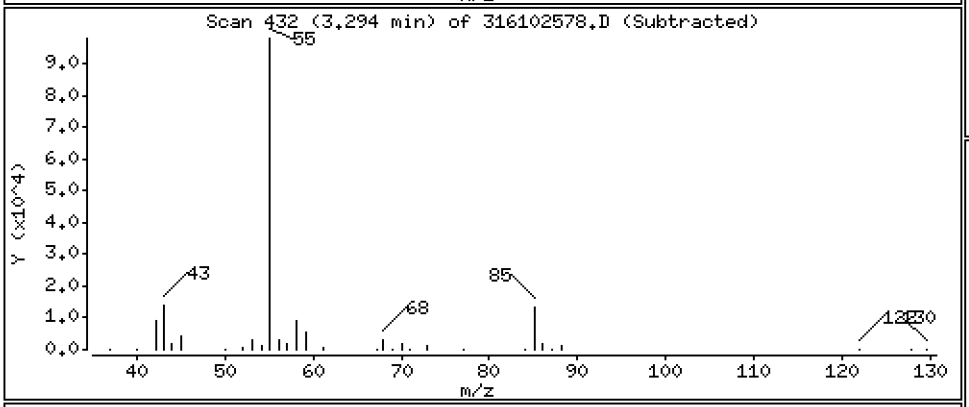
Sample Info: 2429374;;1;3;;MSD;1;

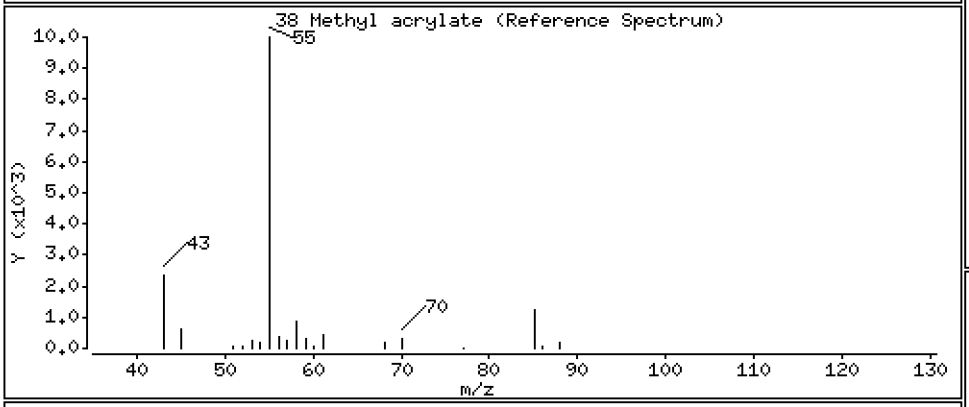
Purge Volume: 5.0 Operator: CJG

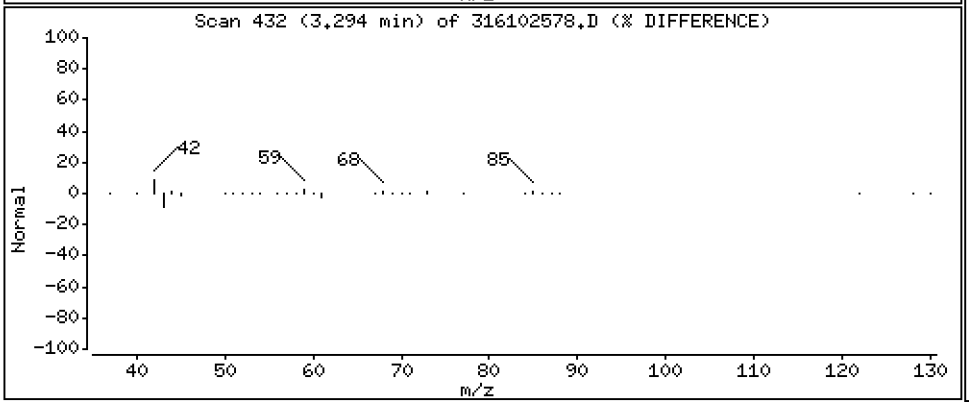
Column phase: DB-VRX Column diameter: 0.25

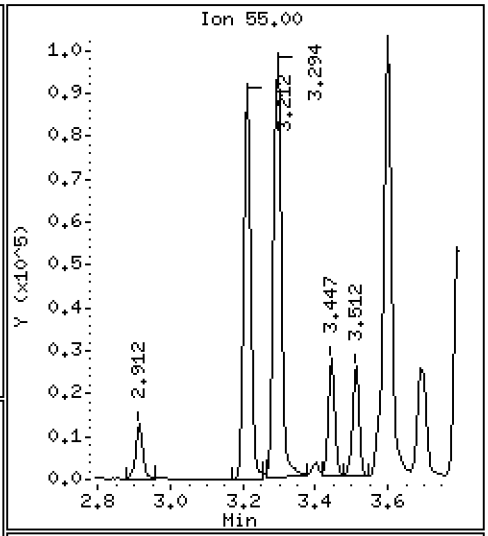
38 Methyl acrylate Concentration: 20.8254 ug/L

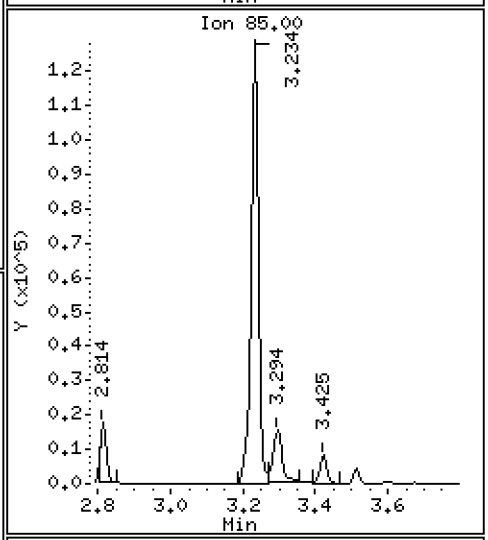


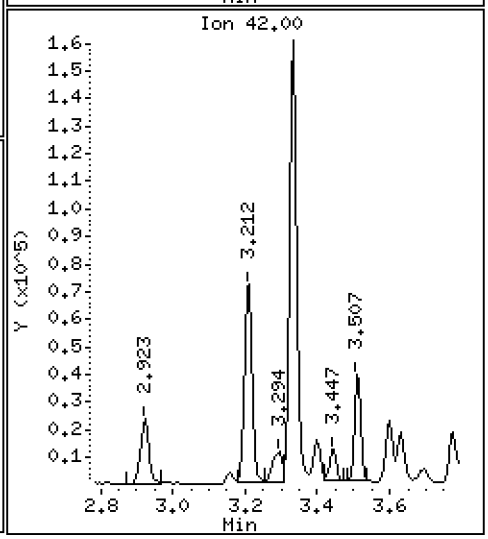












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 51

Date : 26-OCT-2016 07:52

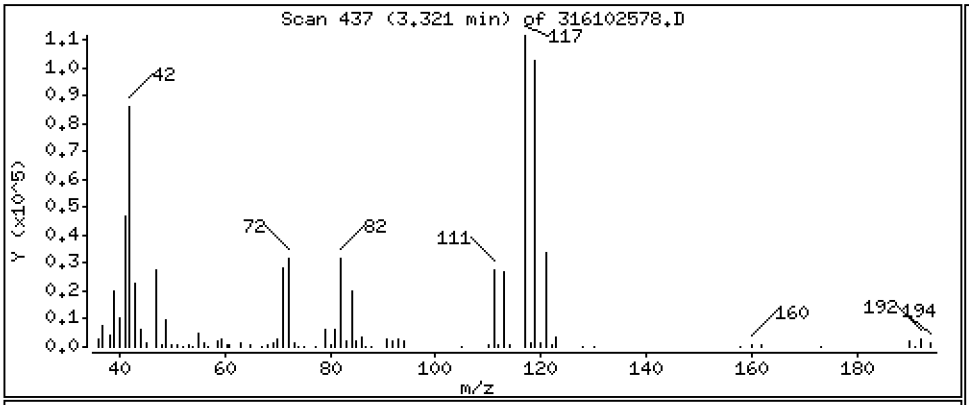
Client ID: 2184163001MSD Instrument: ms03.i

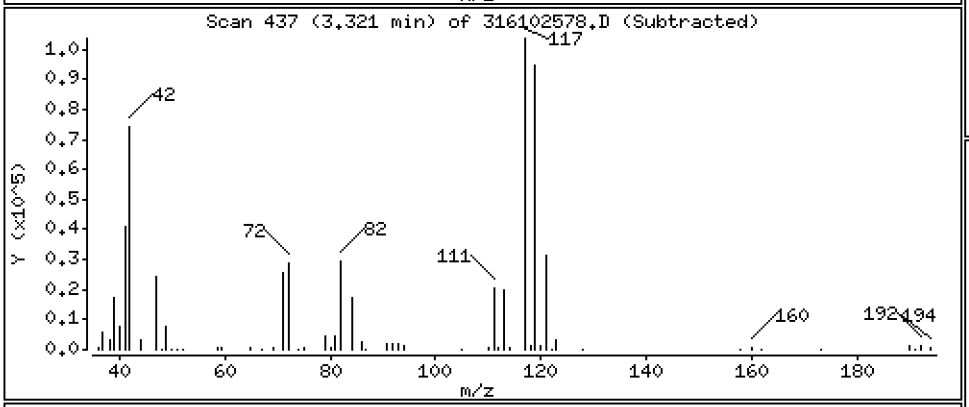
Sample Info: 2429374;;1;3;;MSD;1;

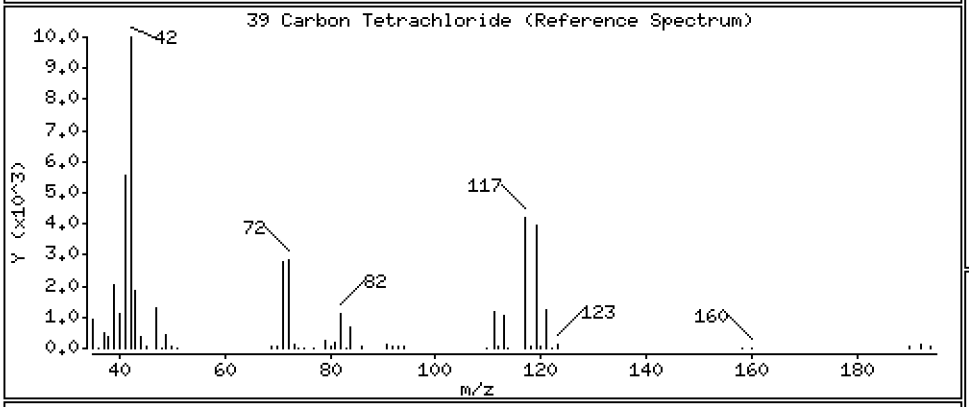
Purge Volume: 5.0 Operator: CJG

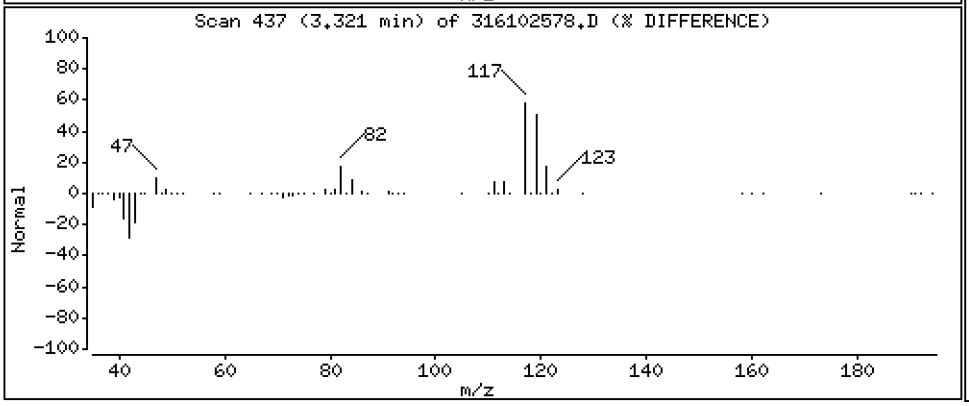
Column phase: DB-VRX Column diameter: 0.25

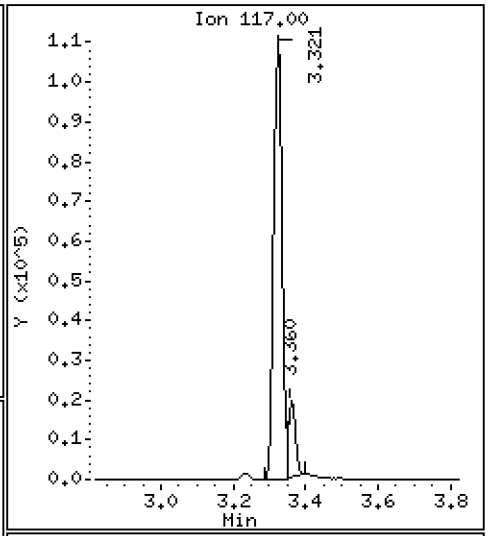
39 Carbon Tetrachloride Concentration: 20.7341 ug/L

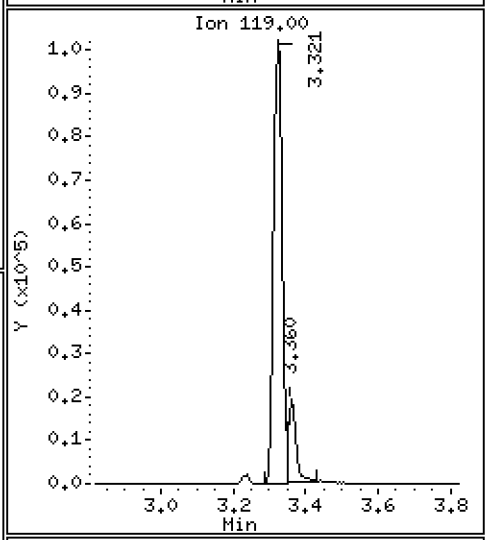


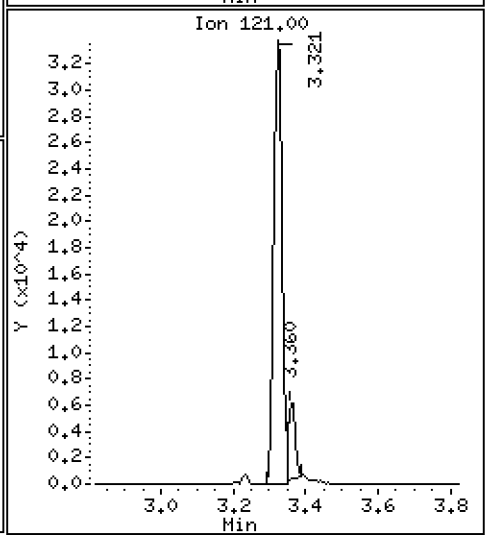












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 52

Date : 26-OCT-2016 07:52

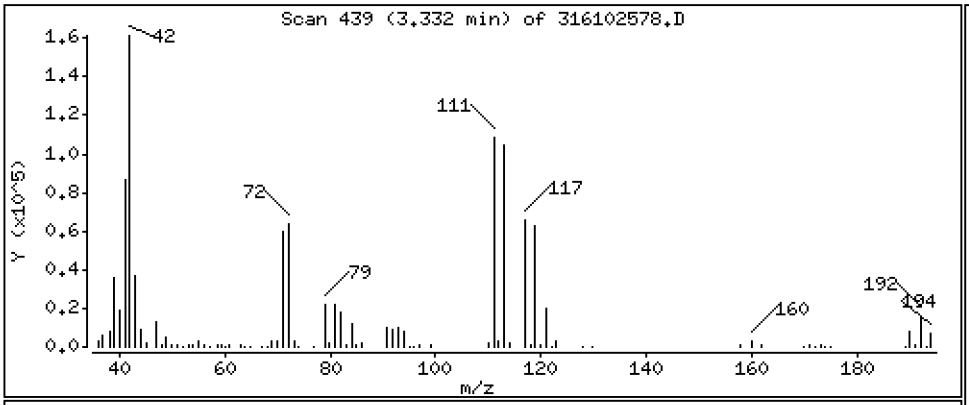
Client ID: 2184163001MSD Instrument: ms03.i

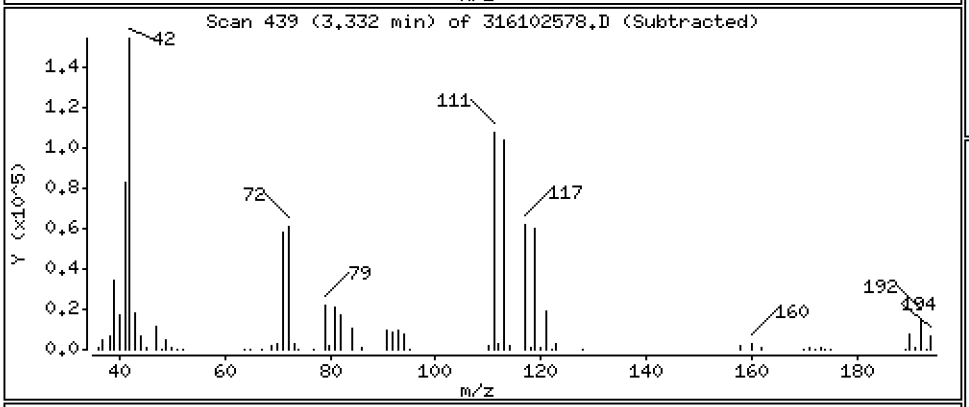
Sample Info: 2429374;;1;3;;MSD;1;

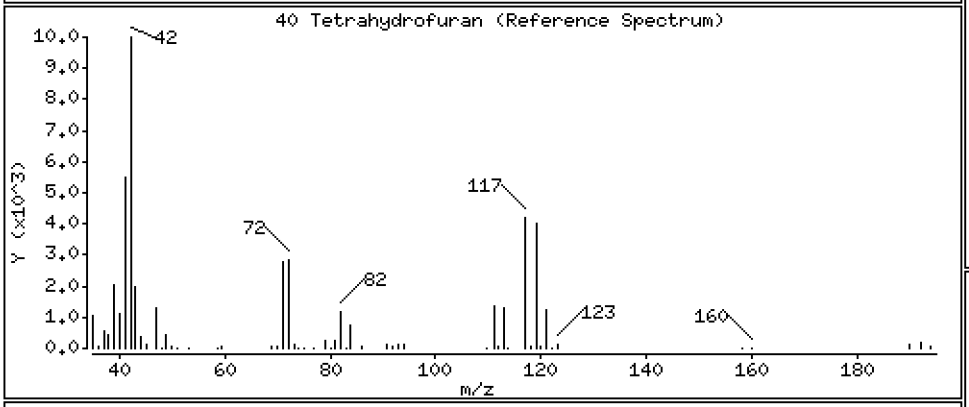
Purge Volume: 5.0 Operator: CJG

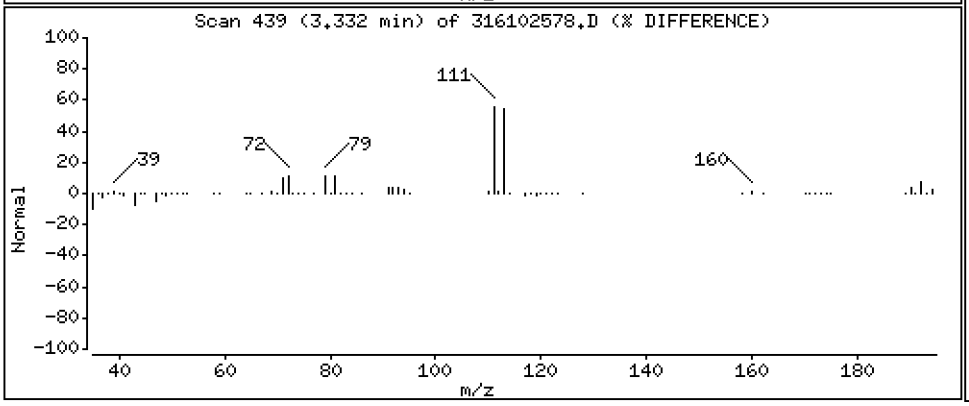
Column phase: DB-VRX Column diameter: 0.25

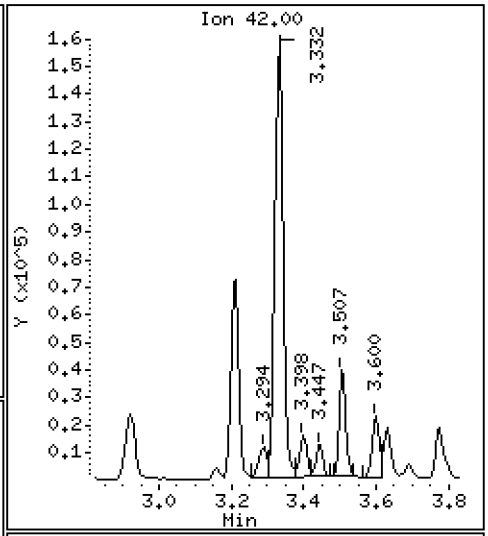
40 Tetrahydrofuran Concentration: 112.786 ug/L

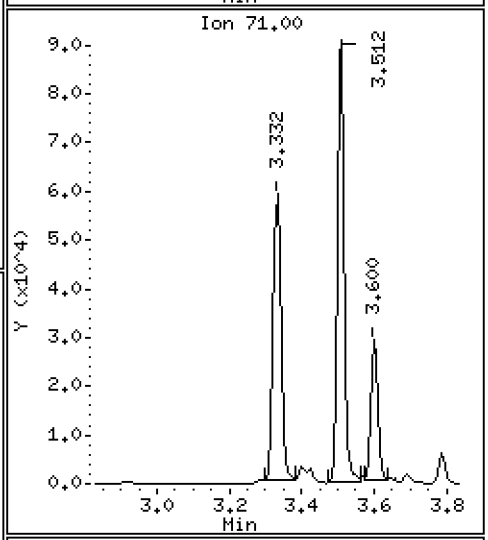


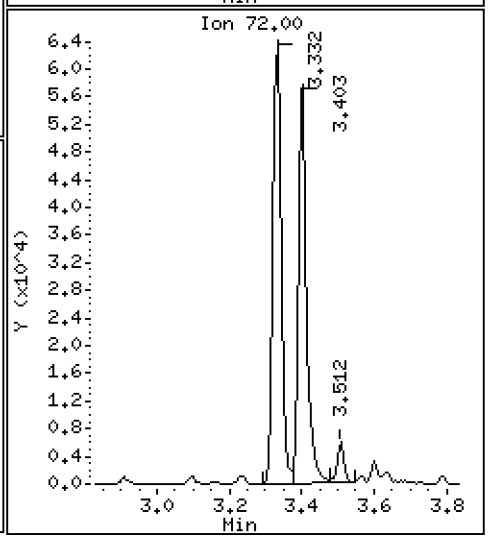












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 53

Date : 26-OCT-2016 07:52

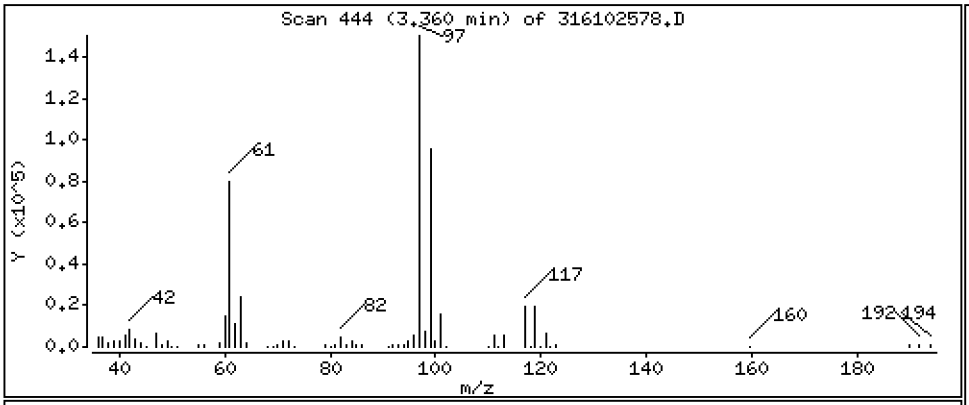
Client ID: 2184163001MSD Instrument: ms03.i

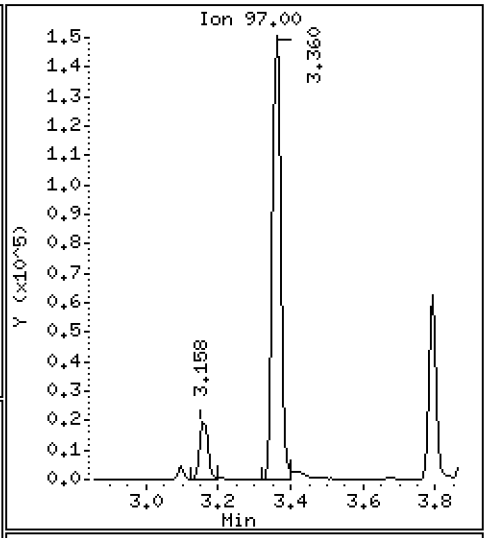
Sample Info: 2429374;;1;3;;MSD;1;

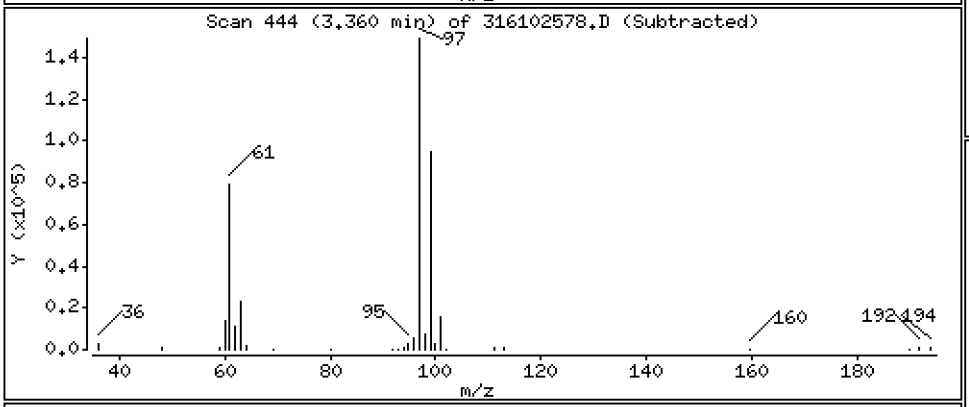
Purge Volume: 5.0 Operator: CJG

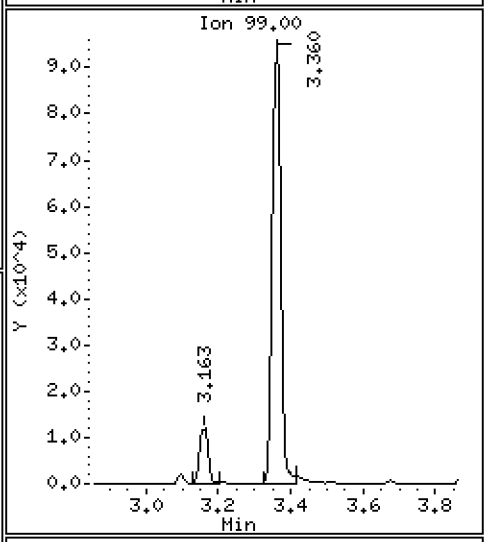
Column phase: DB-VRX Column diameter: 0.25

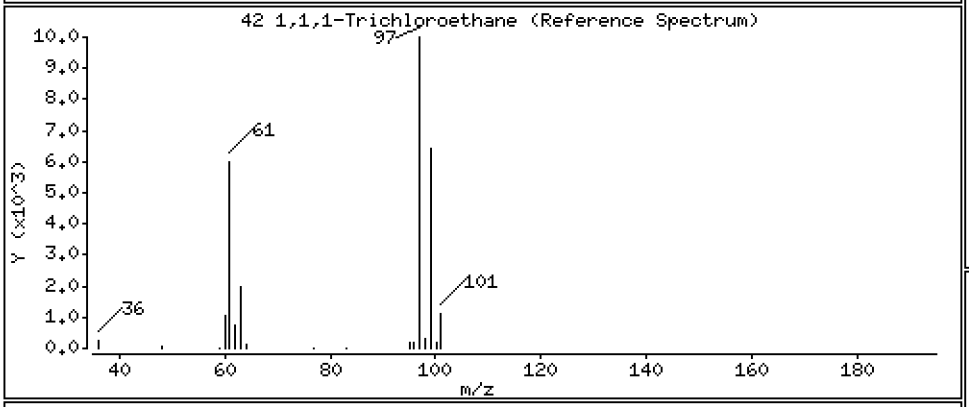
42 1,1,1-Trichloroethane Concentration: 21.0058 ug/L

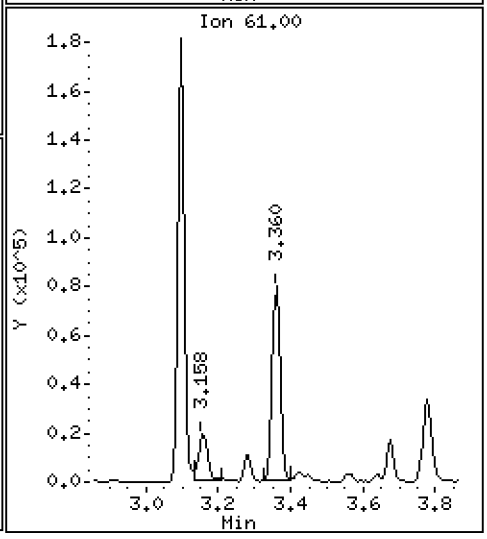


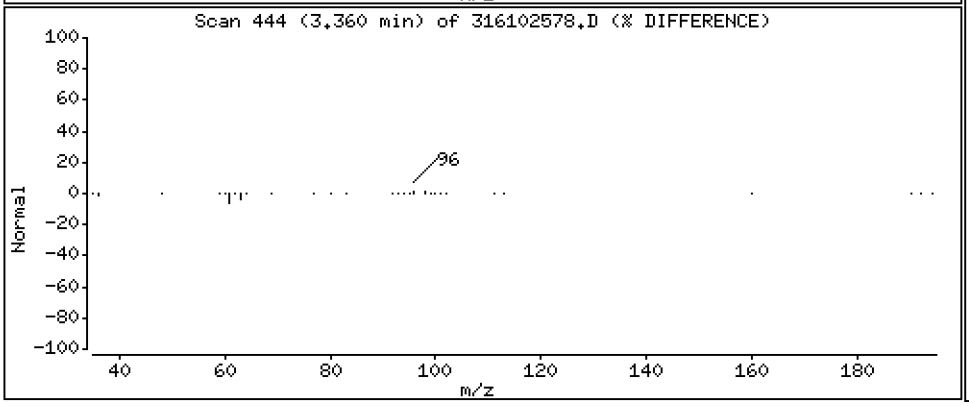












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 54

Date : 26-OCT-2016 07:52

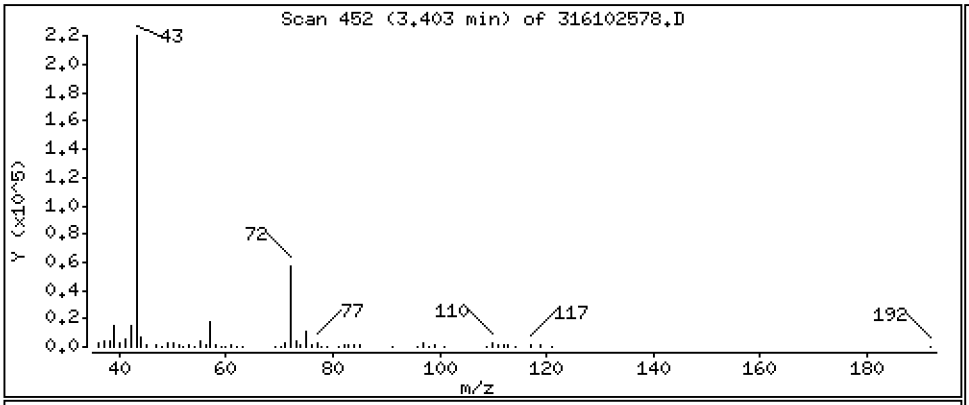
Client ID: 2184163001MSD Instrument: ms03.i

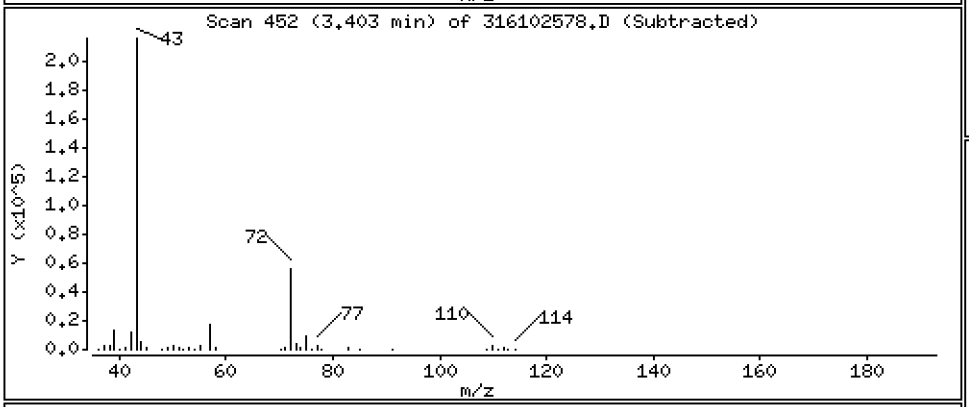
Sample Info: 2429374;;1;3;;MSD;1;

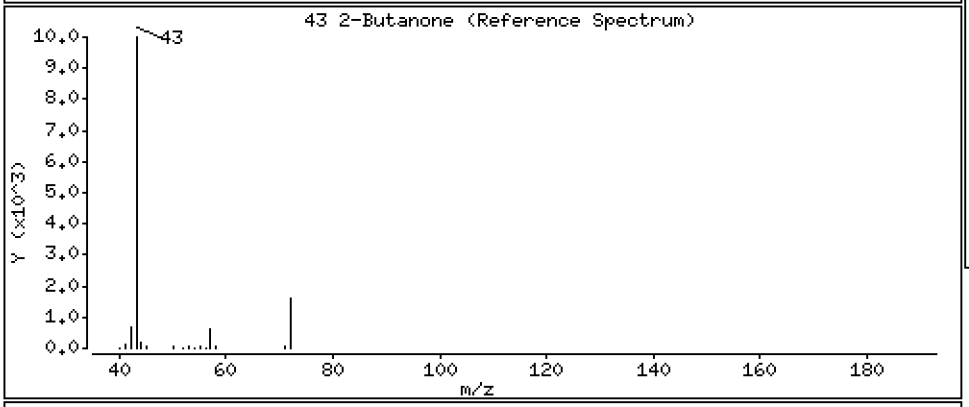
Purge Volume: 5.0 Operator: CJG

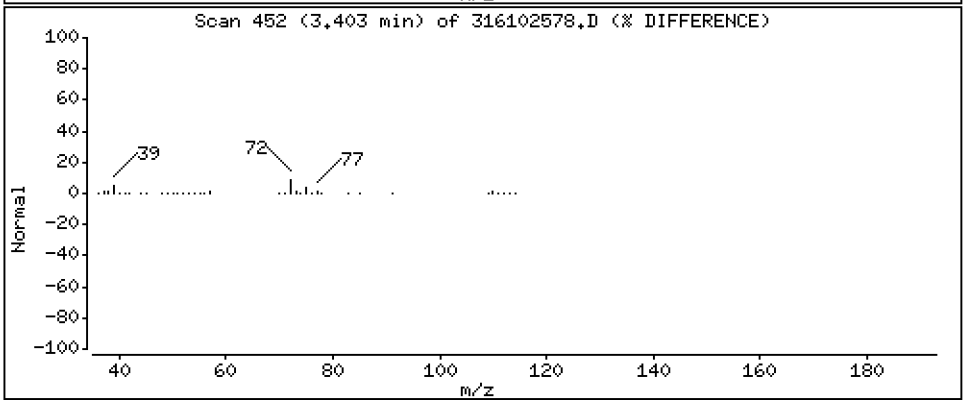
Column phase: DB-VRX Column diameter: 0.25

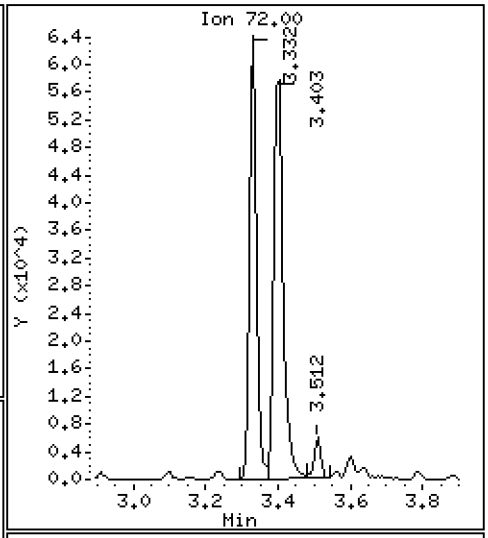
43 2-Butanone Concentration: 107.868 ug/L

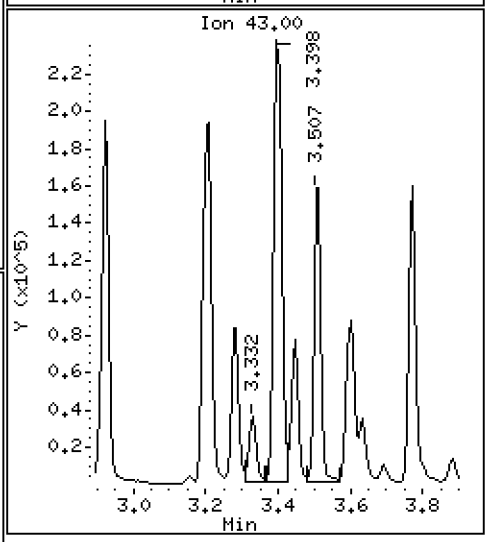












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 55

Date : 26-OCT-2016 07:52

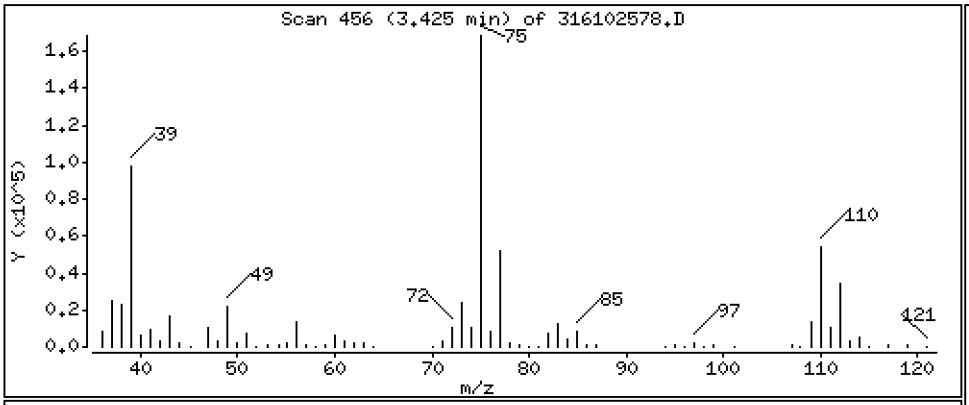
Client ID: 2184163001MSD Instrument: ms03.i

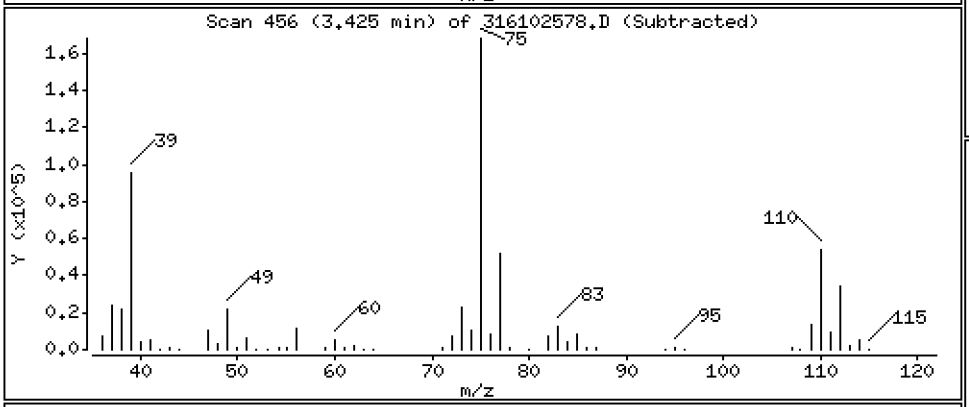
Sample Info: 2429374;;1;3;;MSD;1;

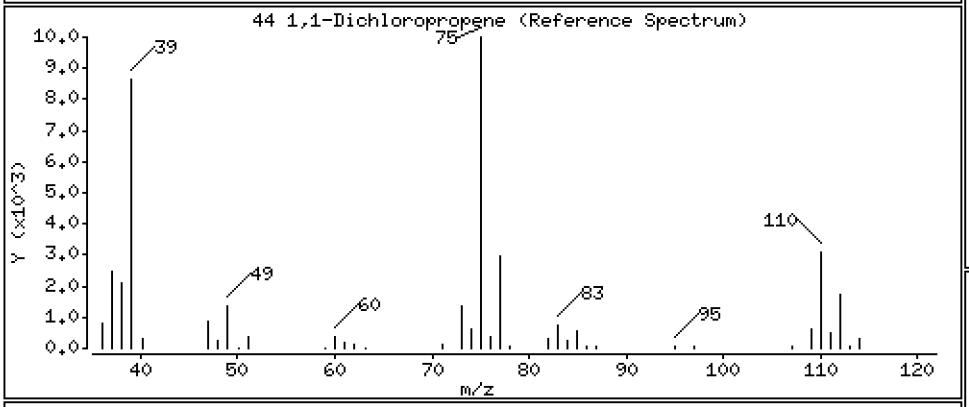
Purge Volume: 5.0 Operator: CJG

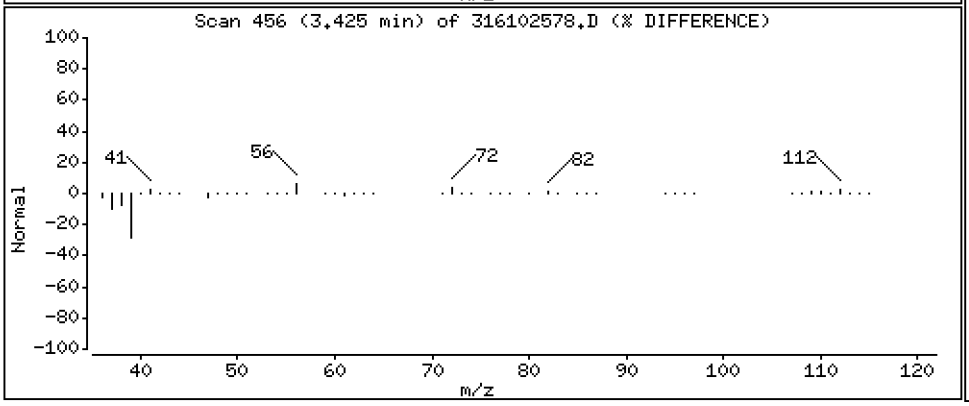
Column phase: DB-VRX Column diameter: 0.25

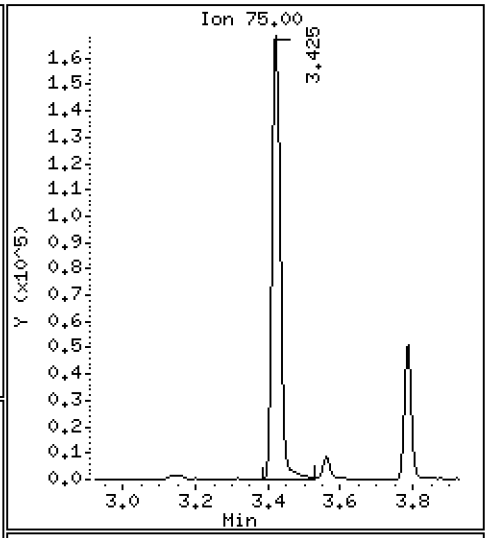
44 1,1-Dichloropropene Concentration: 22.3541 ug/L

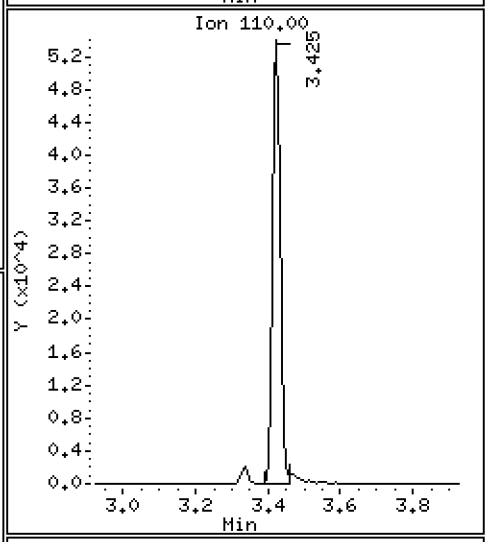


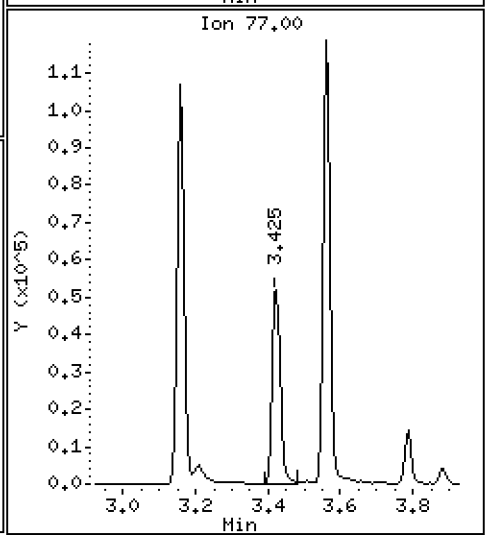












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 56

Date : 26-OCT-2016 07:52

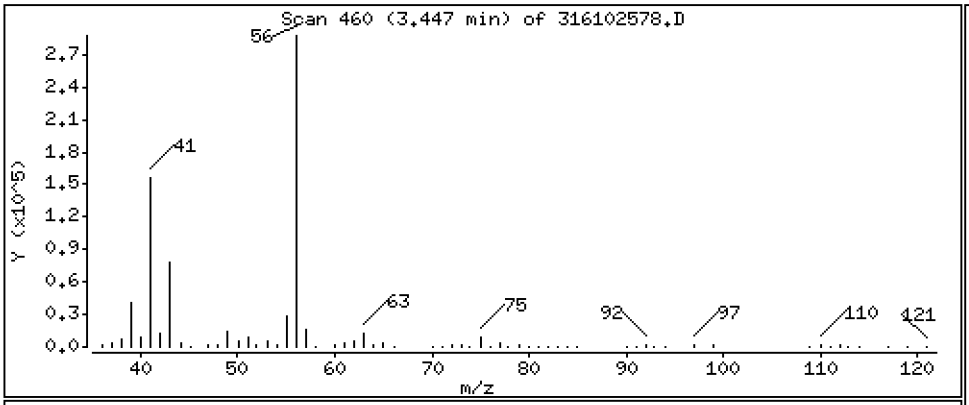
Client ID: 2184163001MSD Instrument: ms03.i

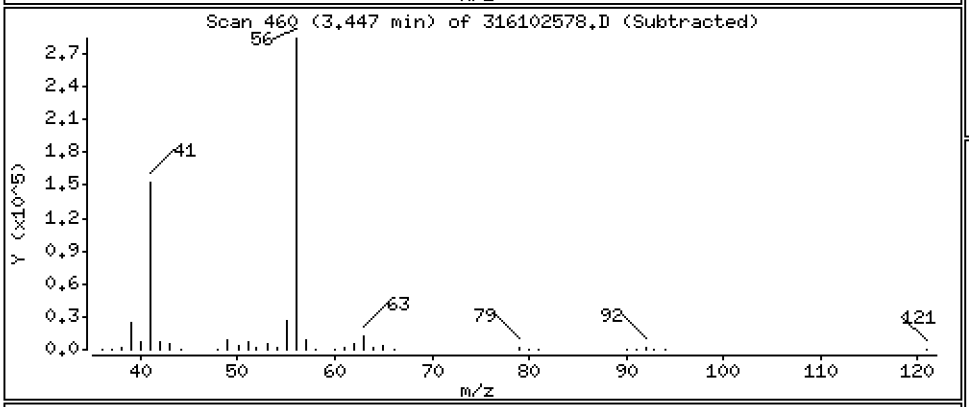
Sample Info: 2429374;;1;3;;MSD;1;

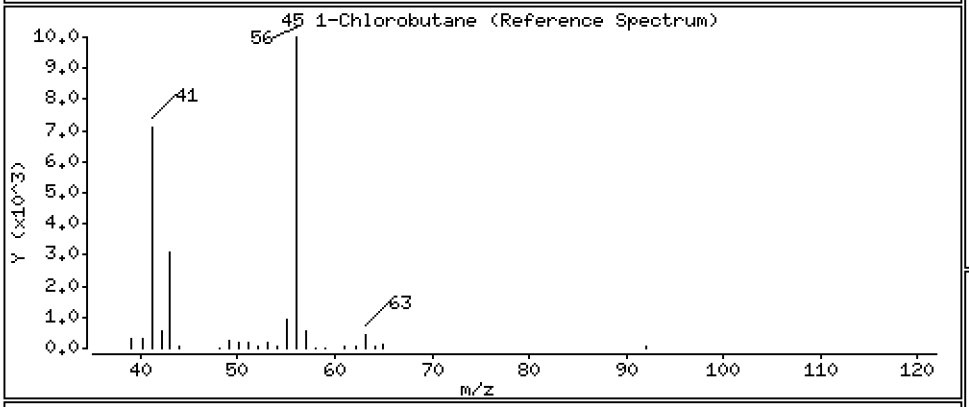
Purge Volume: 5.0 Operator: CJG

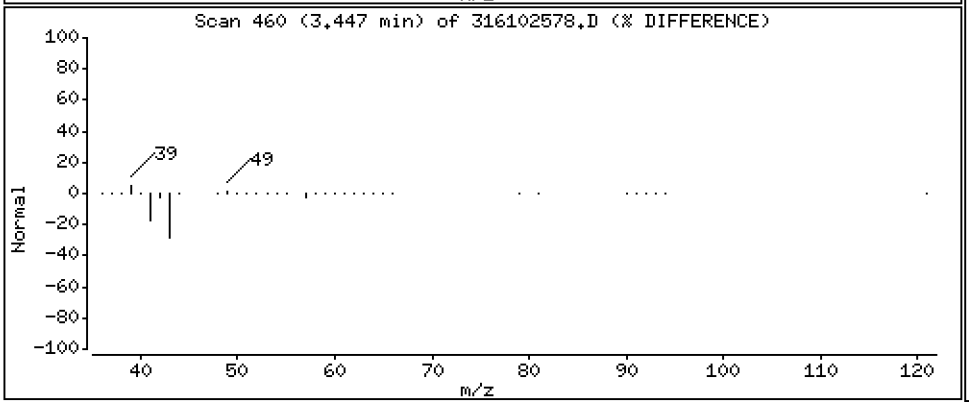
Column phase: DB-VRX Column diameter: 0.25

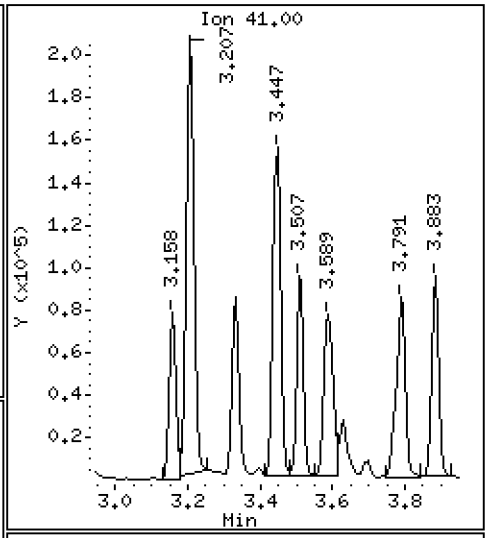
45 1-Chlorobutane Concentration: 25.9746 ug/L

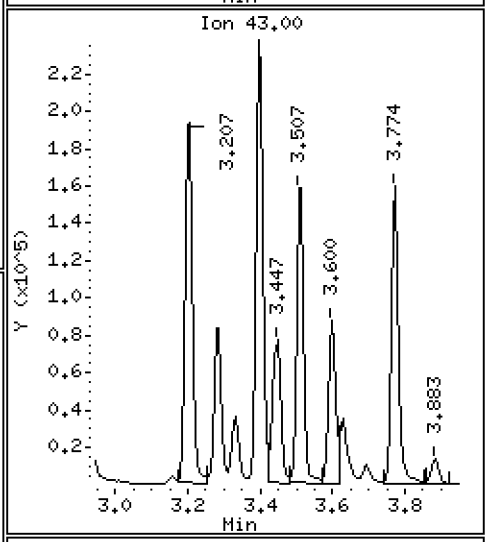


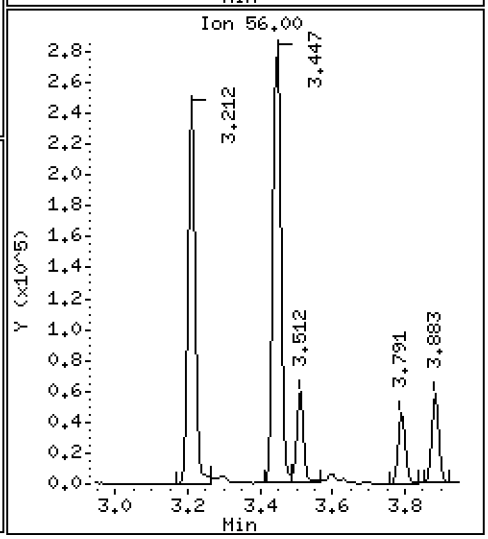












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 57

Date : 26-OCT-2016 07:52

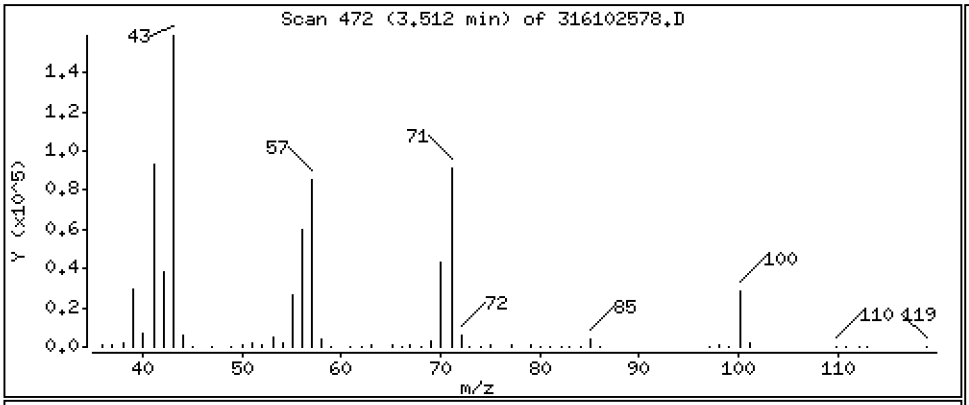
Client ID: 2184163001MSD Instrument: ms03.i

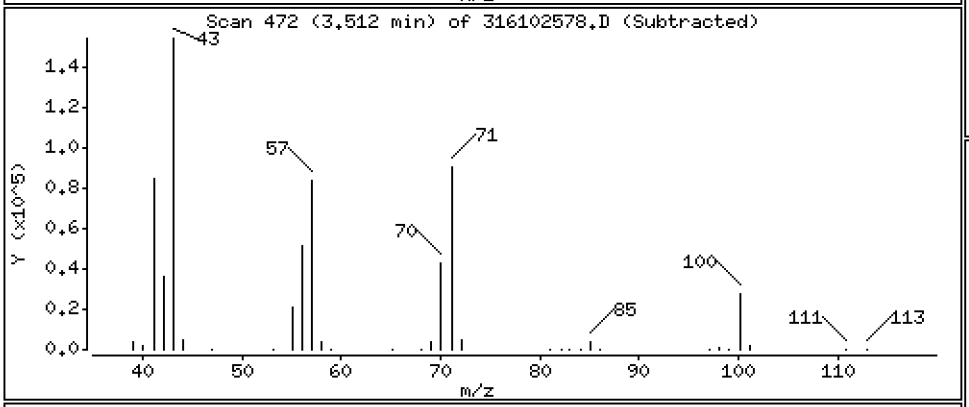
Sample Info: 2429374;;1;3;;MSD;1;

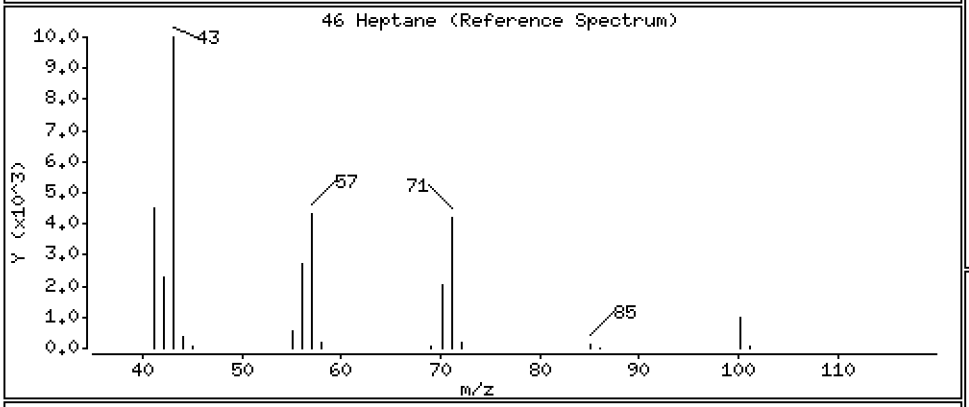
Purge Volume: 5.0 Operator: CJG

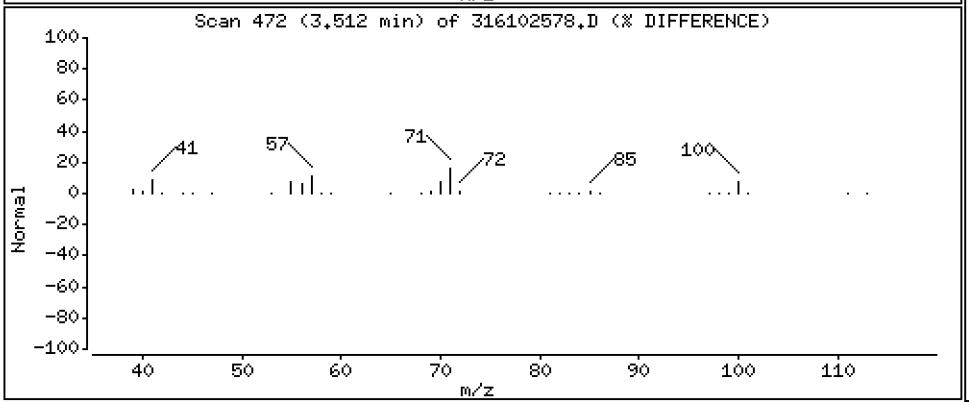
Column phase: DB-VRX Column diameter: 0.25

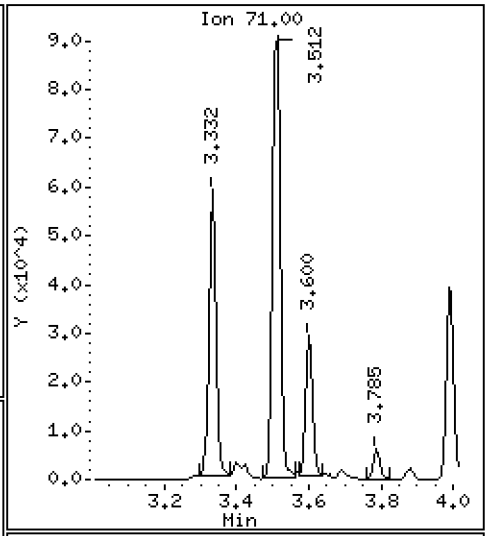
46 Heptane Concentration: 24.1160 ug/L

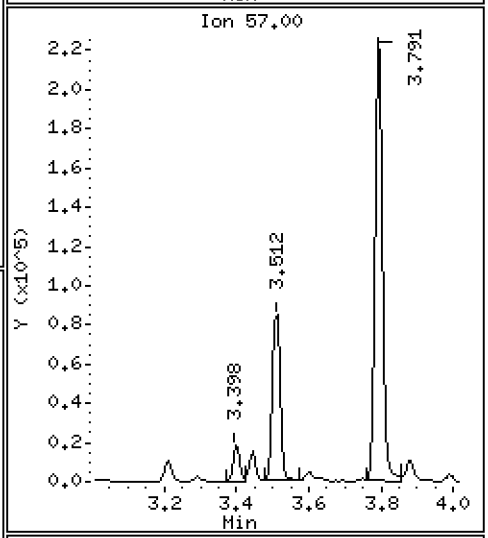


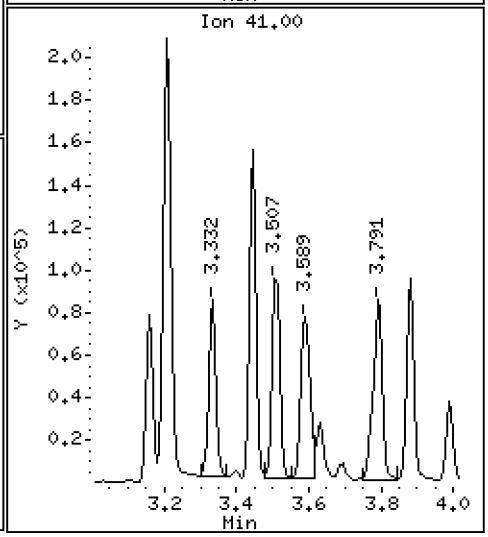












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 58

Date : 26-OCT-2016 07:52

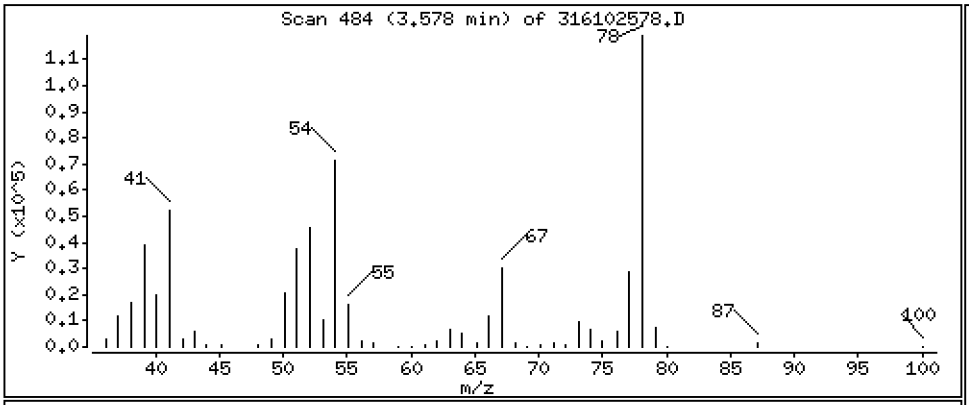
Client ID: 2184163001MSD Instrument: ms03.i

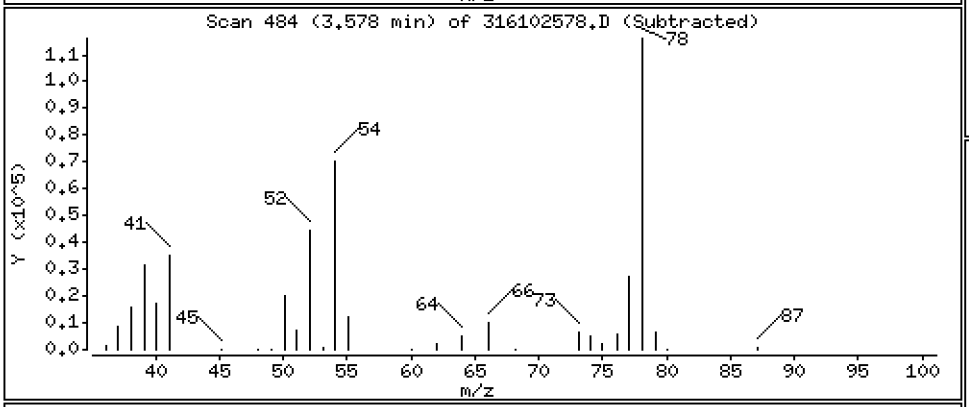
Sample Info: 2429374;;1;3;;MSD;1;

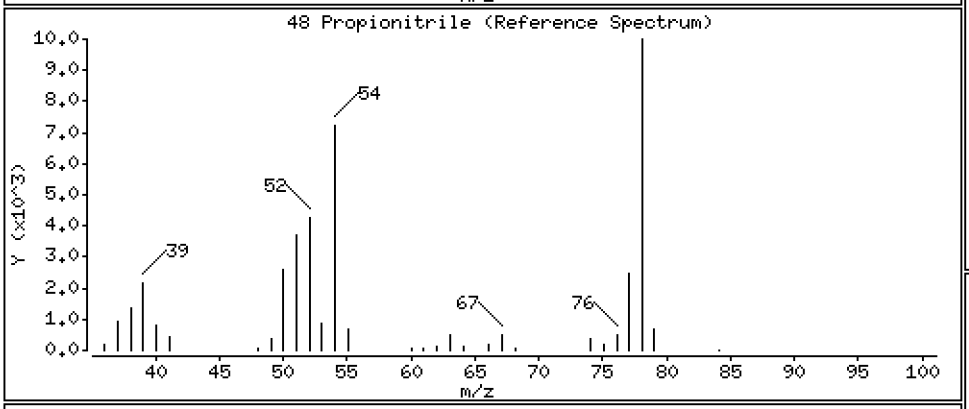
Purge Volume: 5.0 Operator: CJG

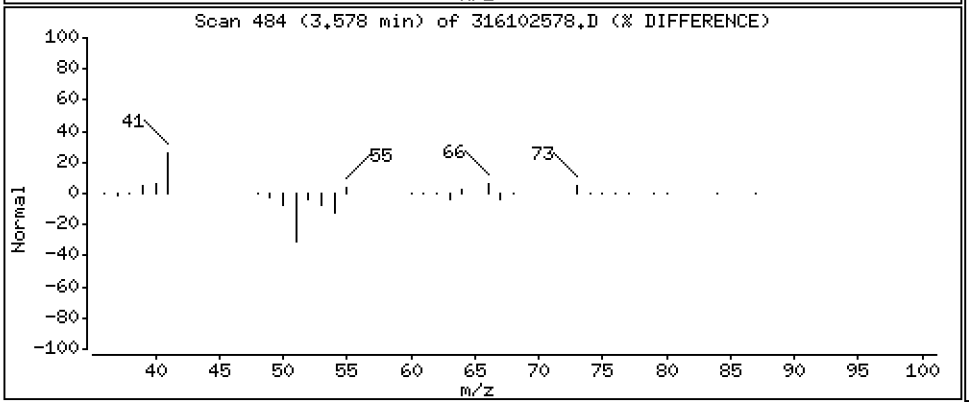
Column phase: DB-VRX Column diameter: 0.25

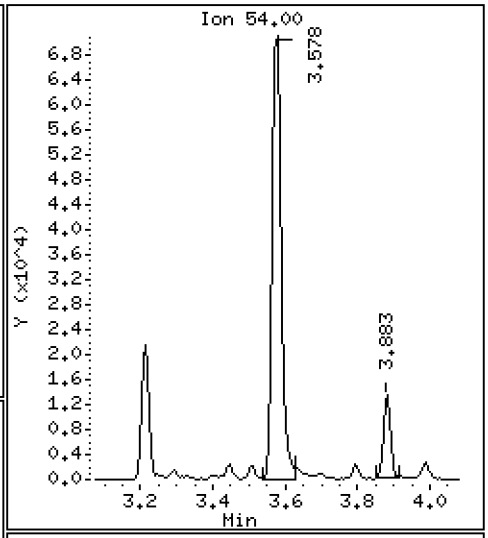
48 Propionitrile Concentration: 111.759 ug/L

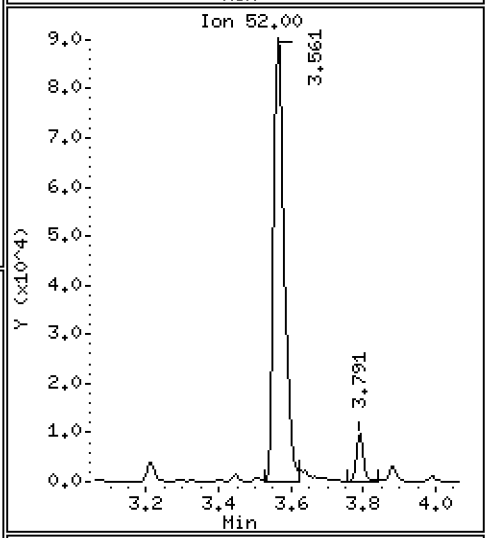


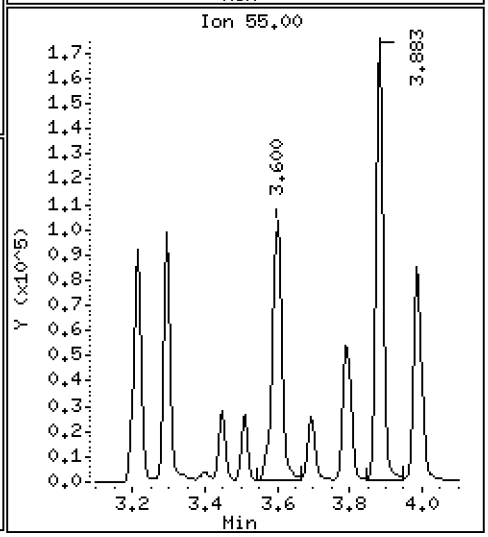












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 59

Date : 26-OCT-2016 07:52

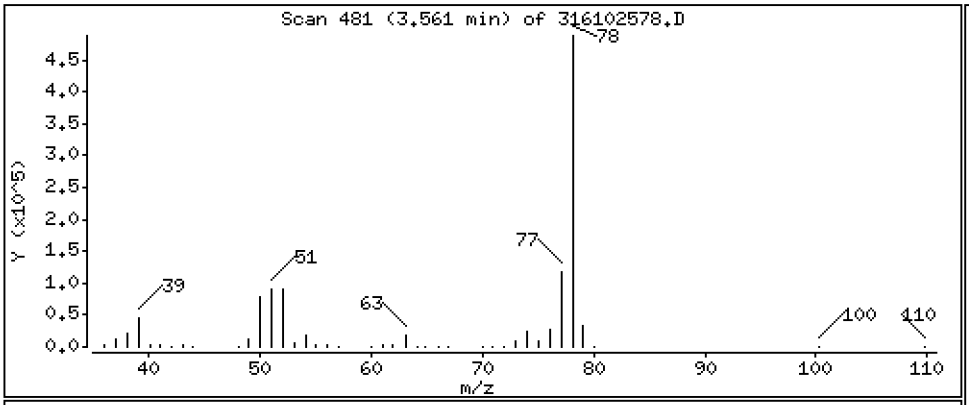
Client ID: 2184163001MSD Instrument: ms03.i

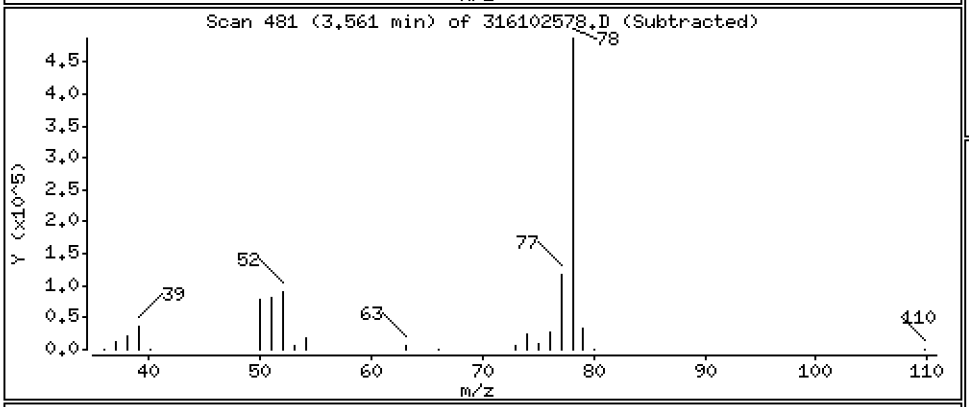
Sample Info: 2429374;;1;3;;MSD;1;

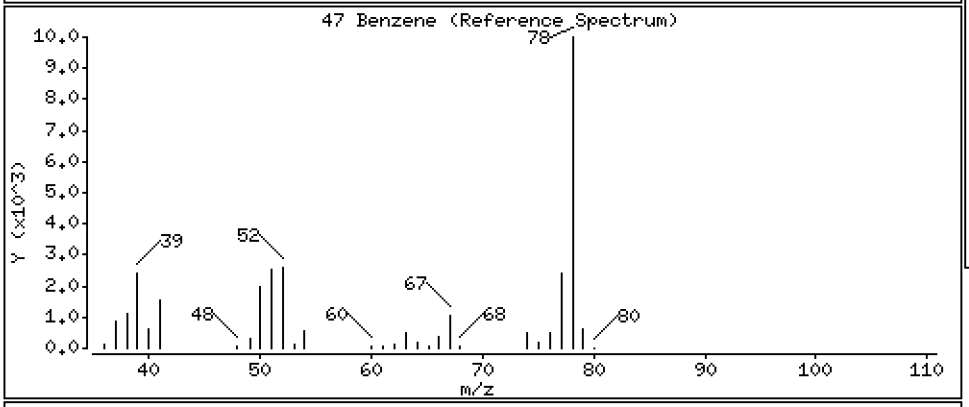
Purge Volume: 5.0 Operator: CJG

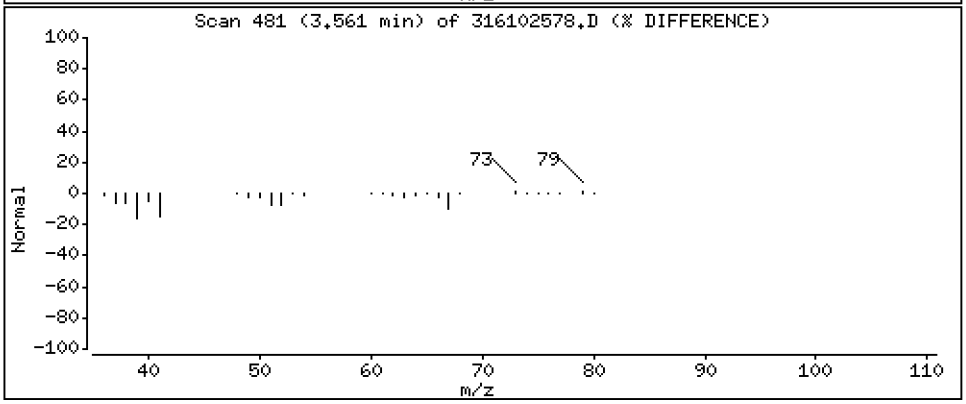
Column phase: DB-VRX Column diameter: 0.25

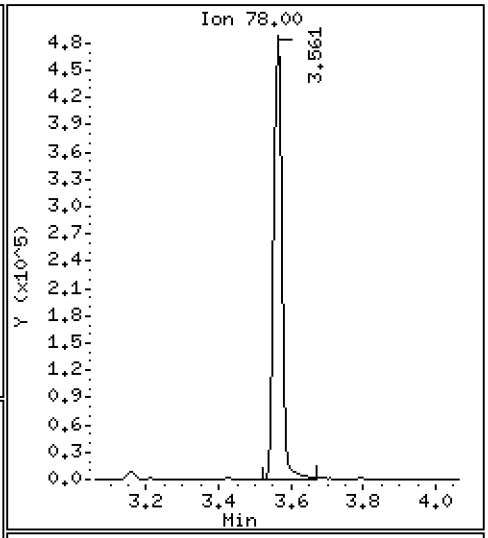
47 Benzene Concentration: 20.6051 ug/L

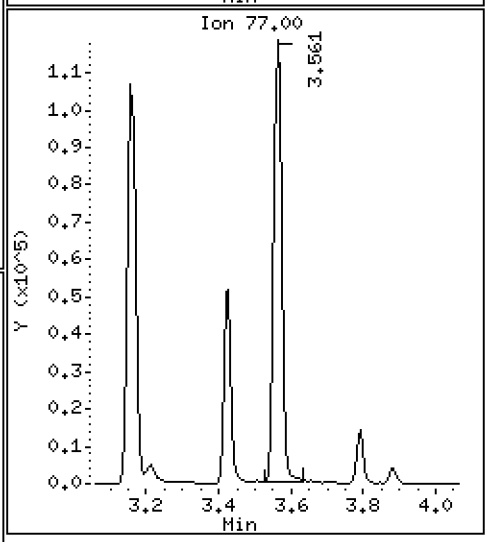












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 60

Date : 26-OCT-2016 07:52

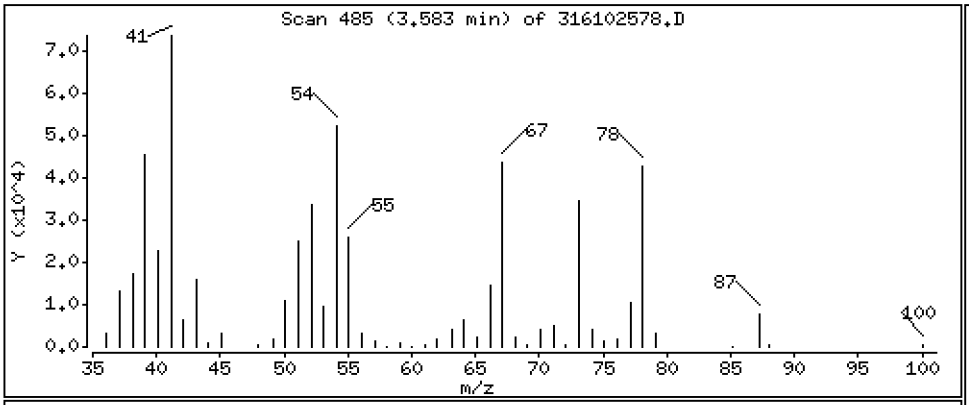
Client ID: 2184163001MSD Instrument: ms03.i

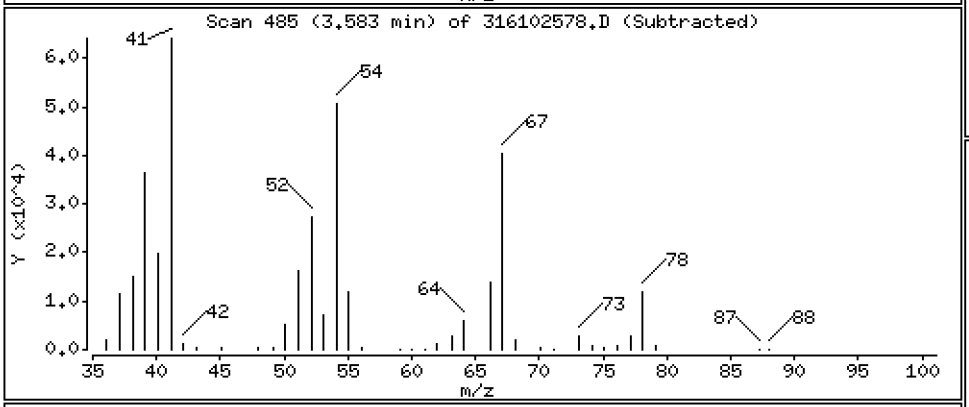
Sample Info: 2429374:;1;3;;MSD;1;

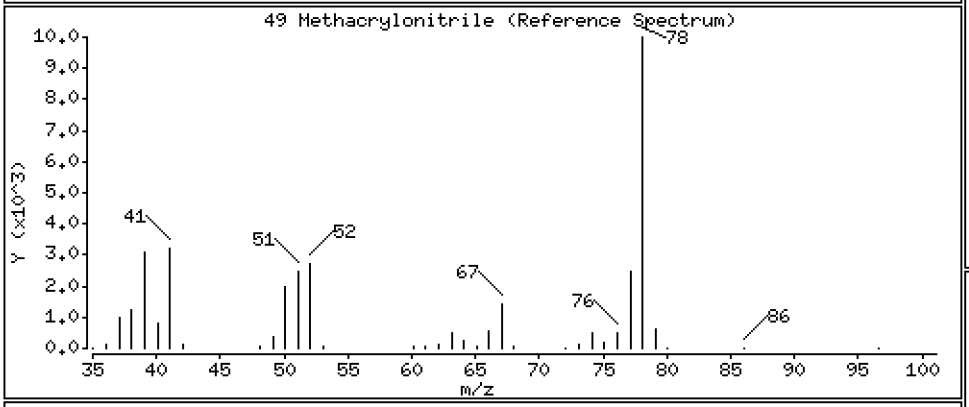
Purge Volume: 5.0 Operator: CJG

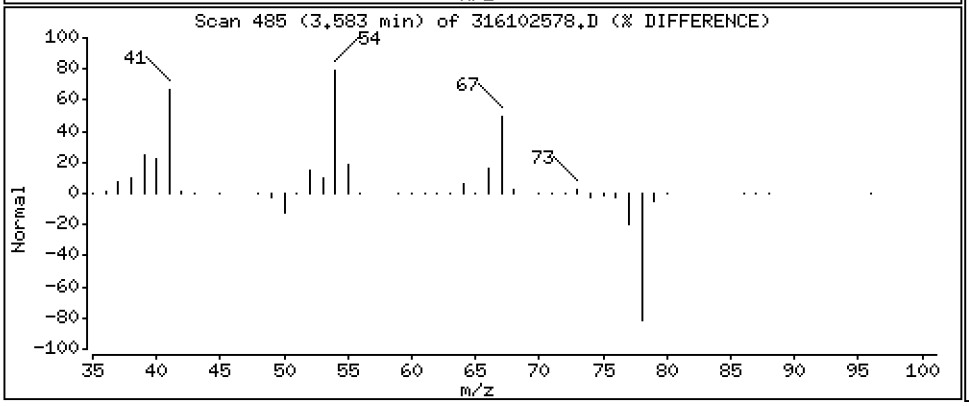
Column phase: DB-VRX Column diameter: 0.25

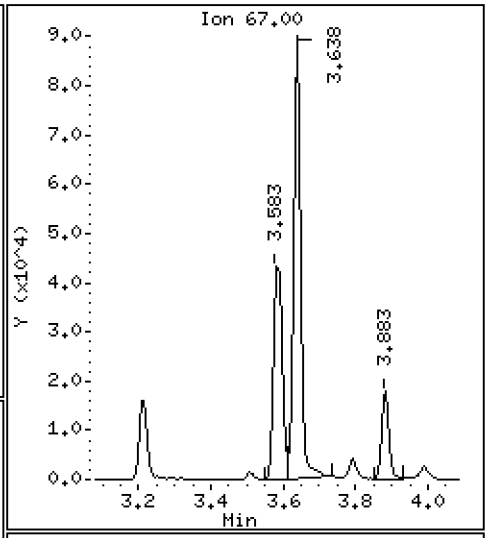
49 Methacrylonitrile Concentration: 20.9862 ug/L

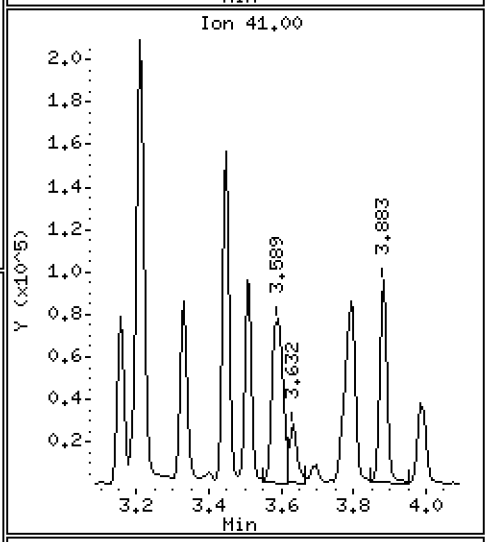


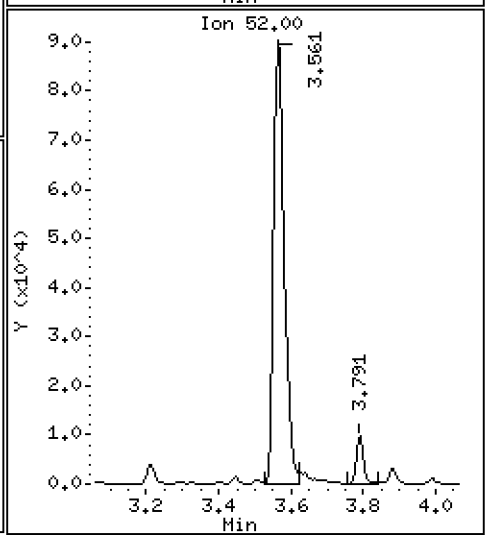












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 61

Date : 26-OCT-2016 07:52

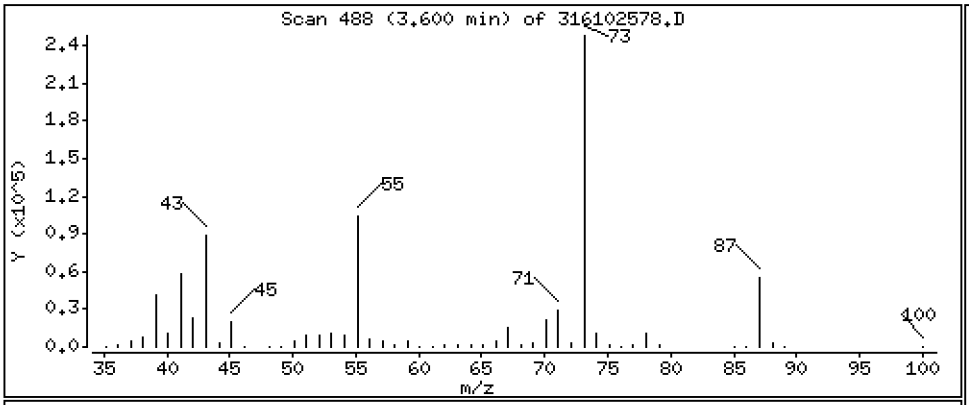
Client ID: 2184163001MSD Instrument: ms03.i

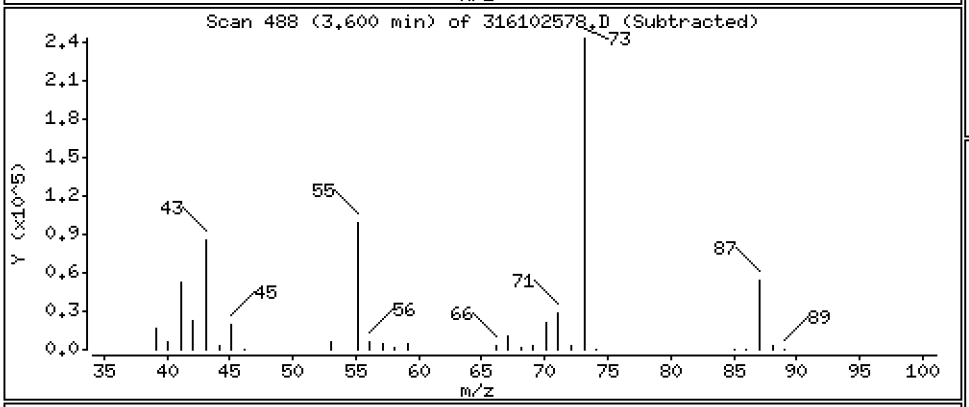
Sample Info: 2429374;;1;3;;MSD;1;

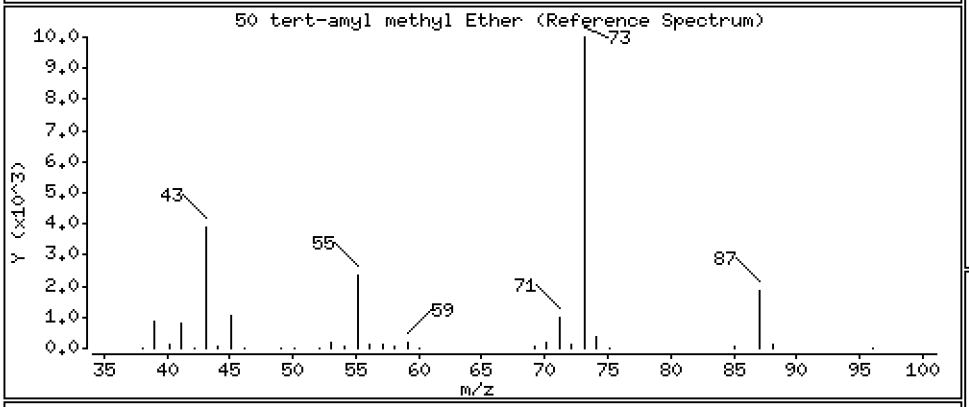
Purge Volume: 5.0 Operator: CJG

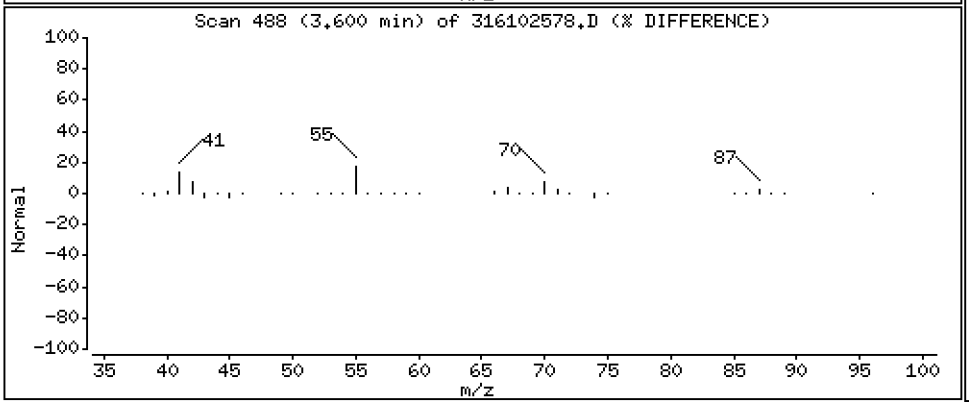
Column phase: DB-VRX Column diameter: 0.25

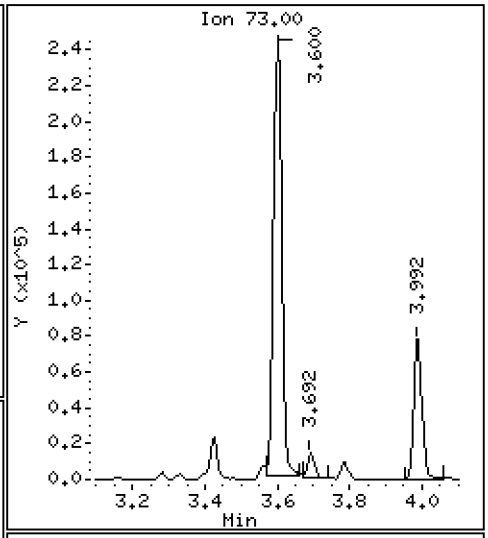
50 tert-amyl methyl Ether Concentration: 19.8572 ug/L

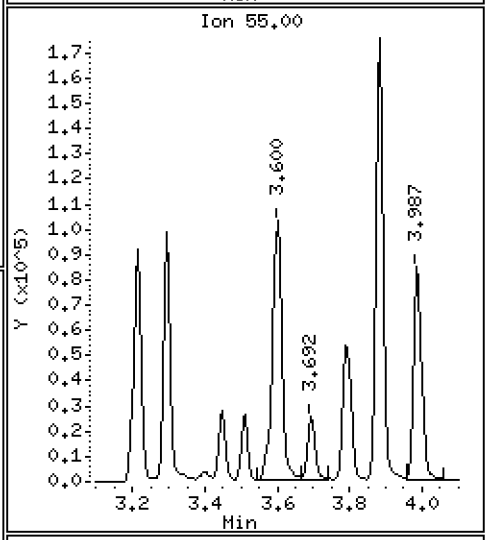


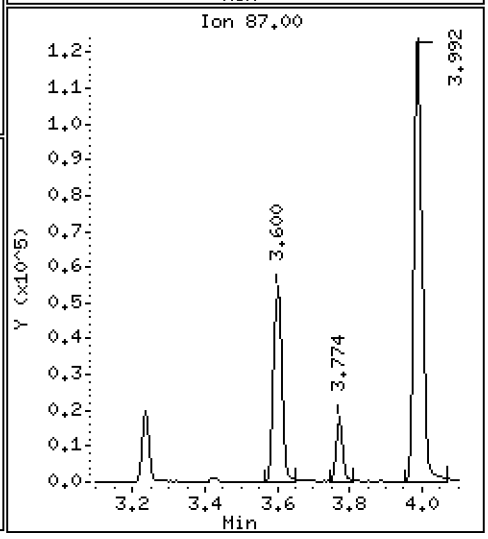












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 62

Date : 26-OCT-2016 07:52

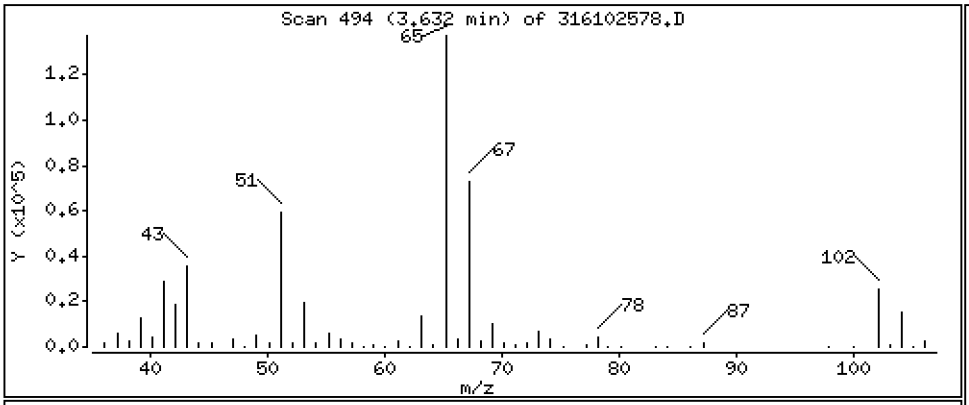
Client ID: 2184163001MSD Instrument: ms03.i

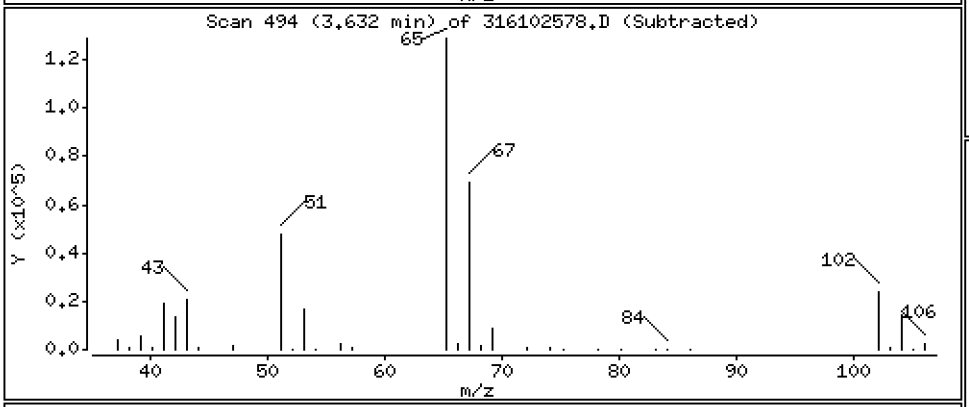
Sample Info: 2429374;;1;3;;MSD;1;

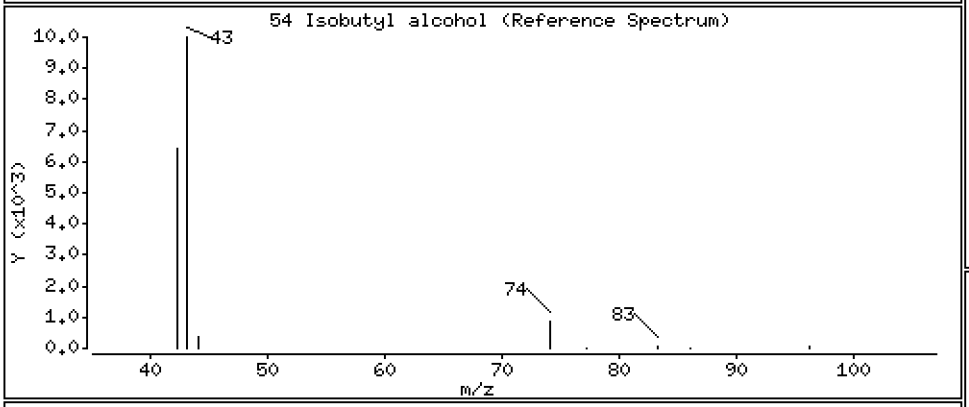
Purge Volume: 5.0 Operator: CJG

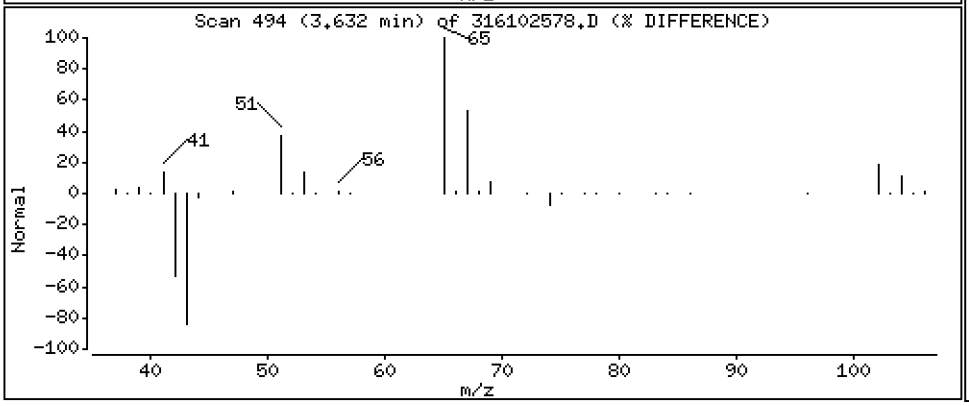
Column phase: DB-VRX Column diameter: 0.25

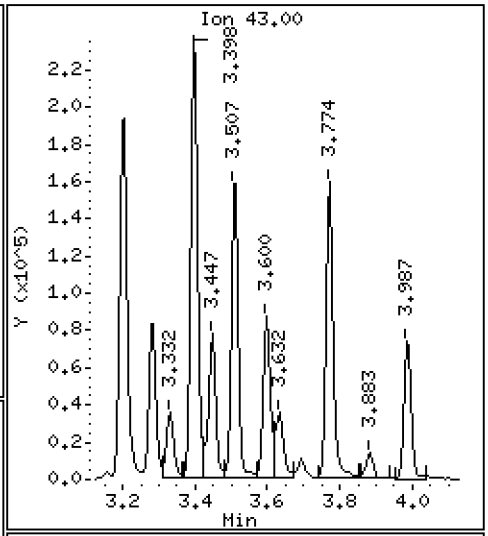
54 Isobutyl alcohol Concentration: 319.184 ug/L

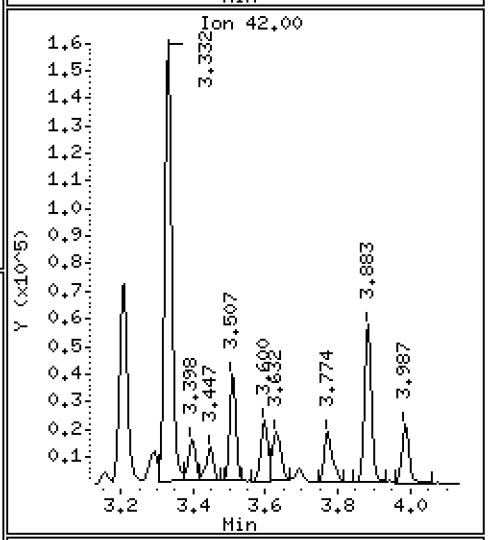


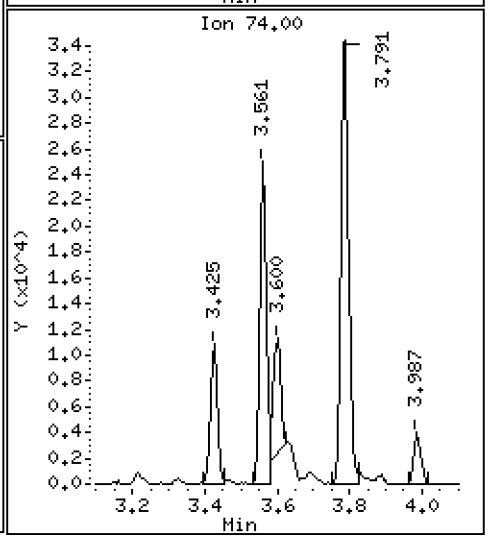












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 63

Date : 26-OCT-2016 07:52

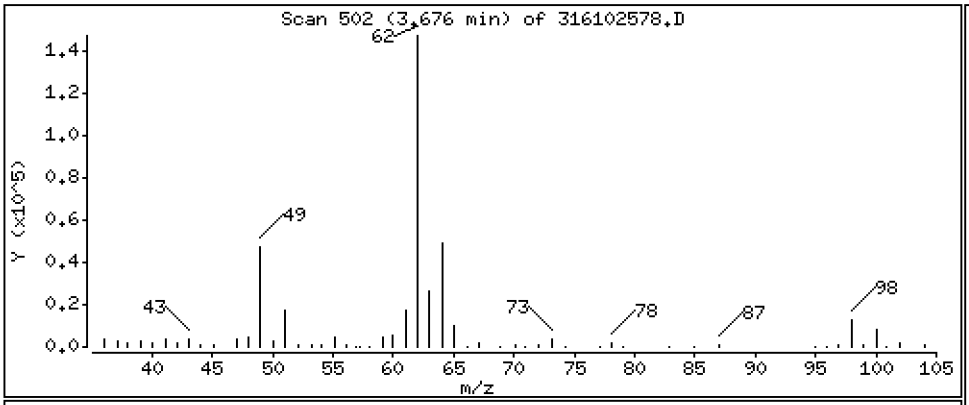
Client ID: 2184163001MSD Instrument: ms03.i

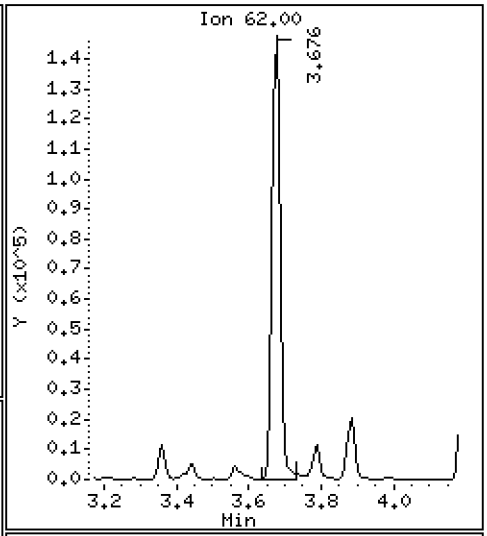
Sample Info: 2429374;;1;3;;MSD;1;

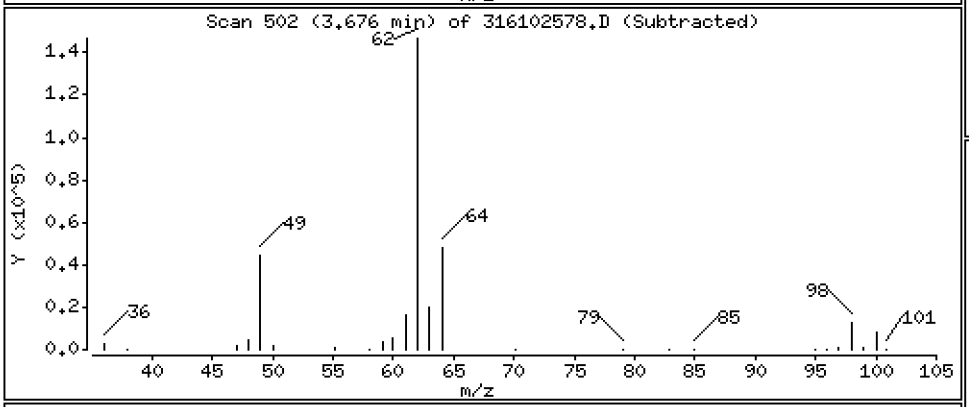
Purge Volume: 5.0 Operator: CJG

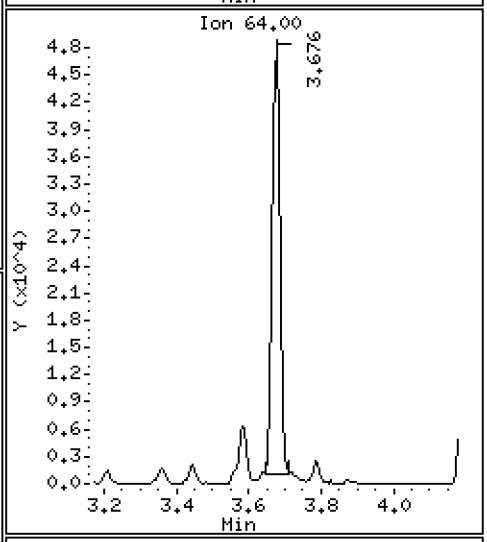
Column phase: DB-VRX Column diameter: 0.25

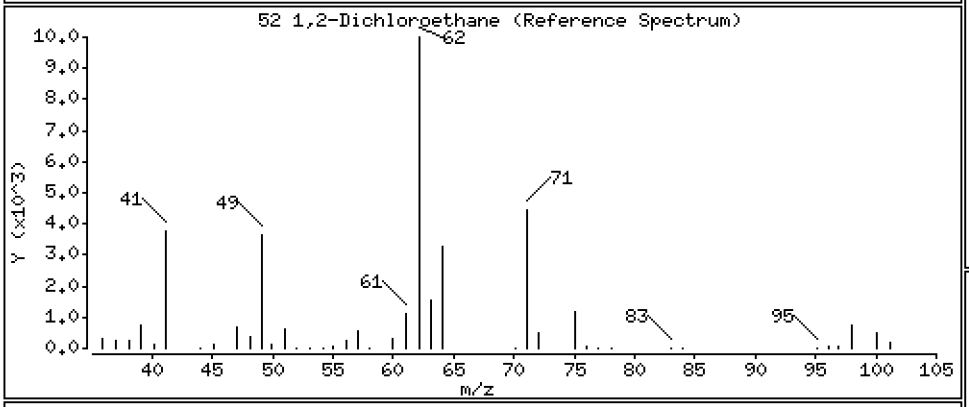
52 1,2-Dichloroethane Concentration: 20.6549 ug/L

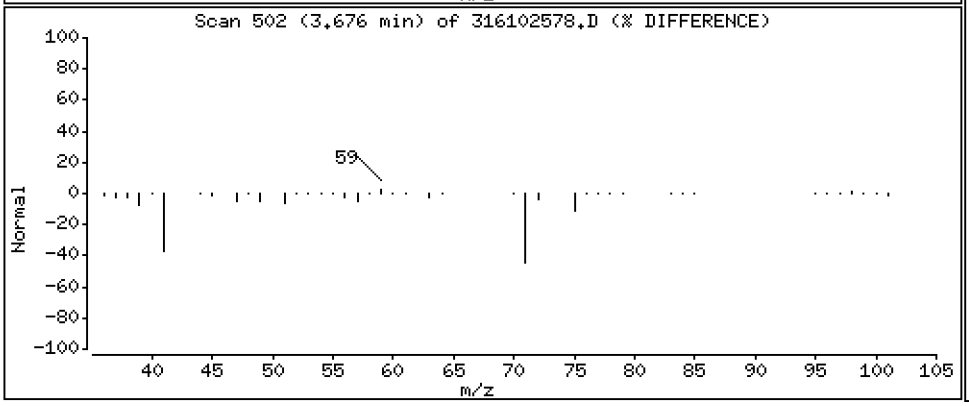


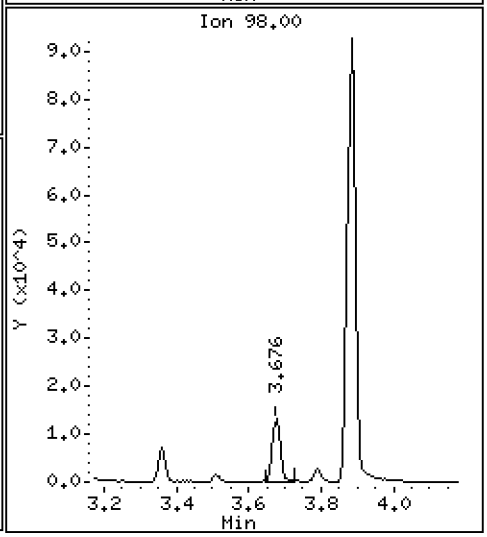












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 64

Date : 26-OCT-2016 07:52

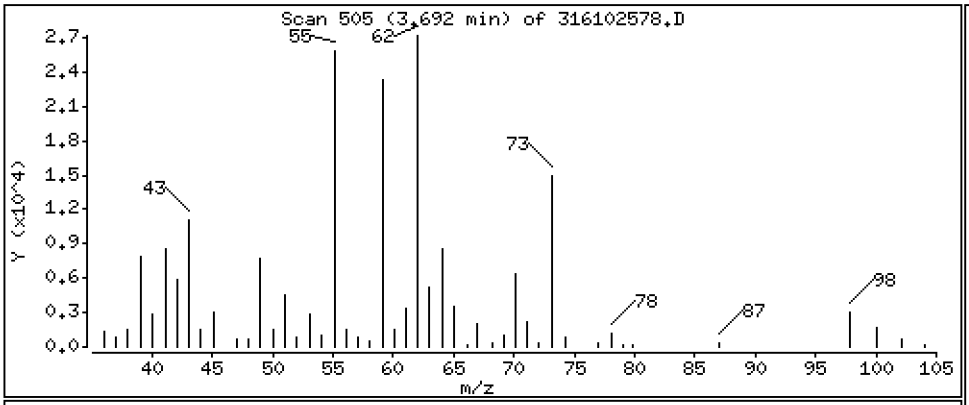
Client ID: 2184163001MSD Instrument: ms03.i

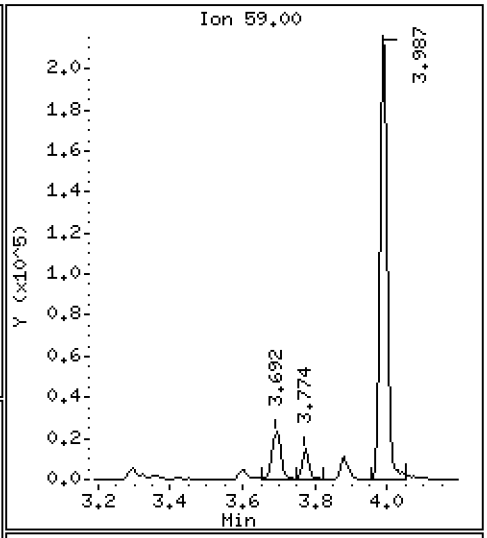
Sample Info: 2429374;;1;3;;MSD;1;

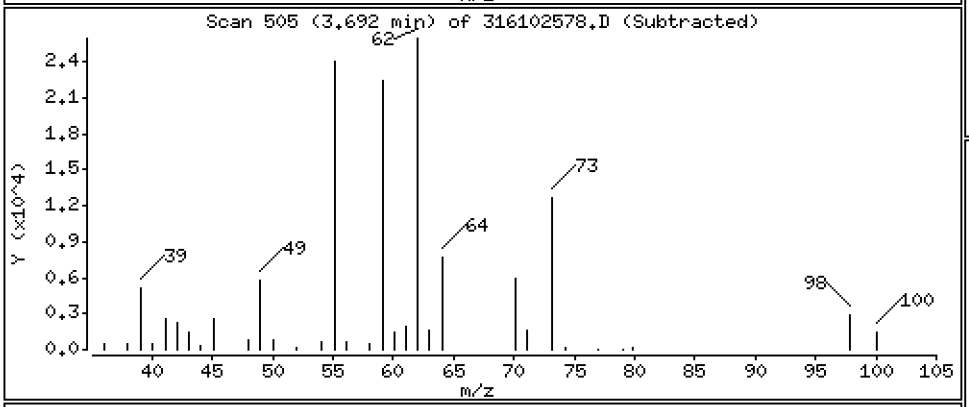
Purge Volume: 5.0 Operator: CJG

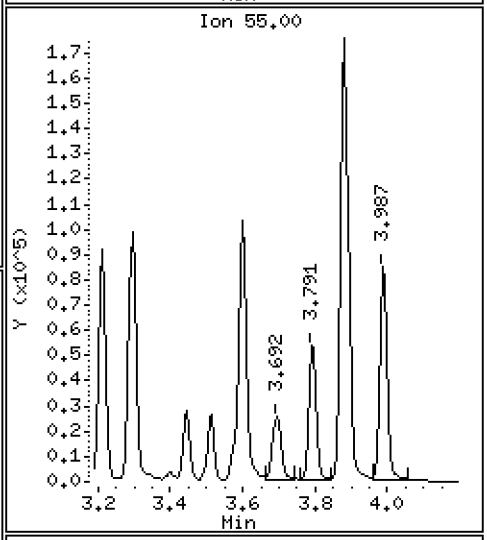
Column phase: DB-VRX Column diameter: 0.25

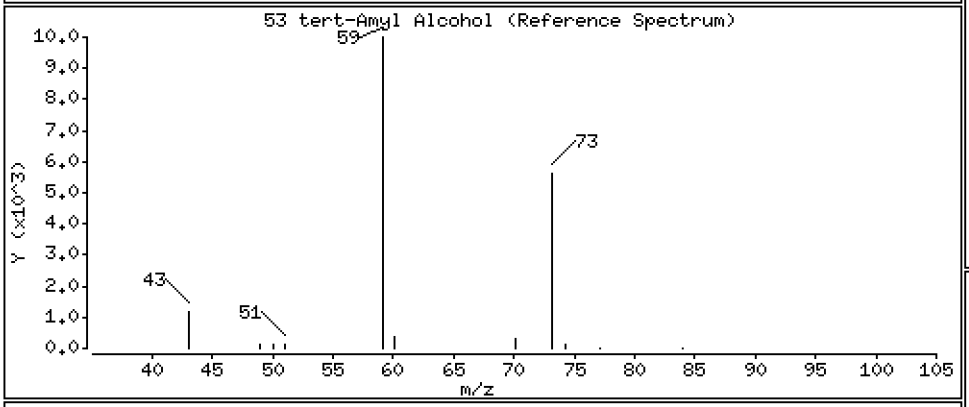
53 tert-Amyl Alcohol Concentration: 109.180 ug/L

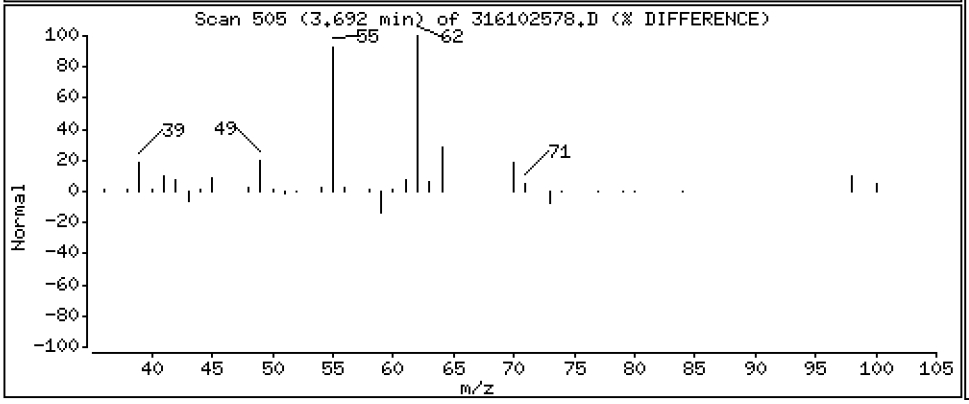


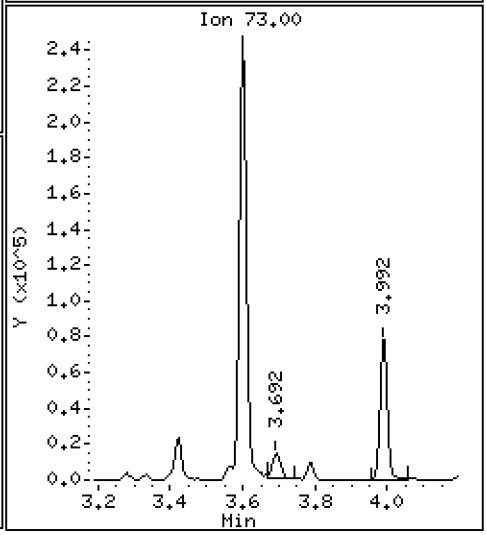












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 65

Date : 26-OCT-2016 07:52

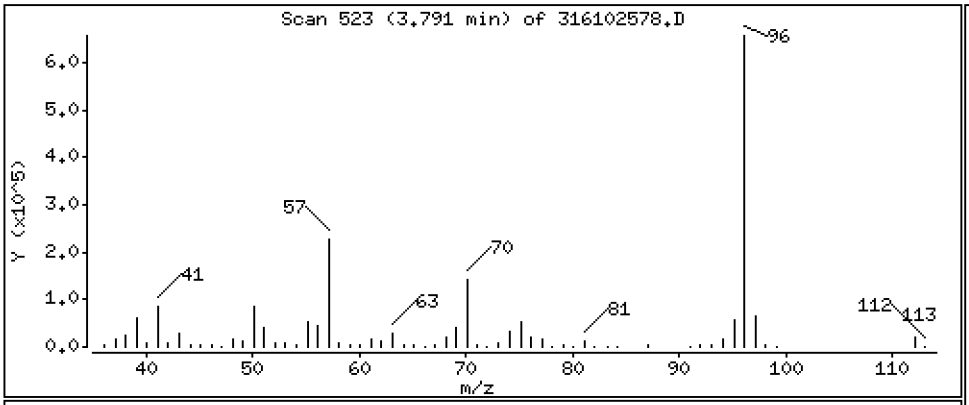
Client ID: 2184163001MSD Instrument: ms03.i

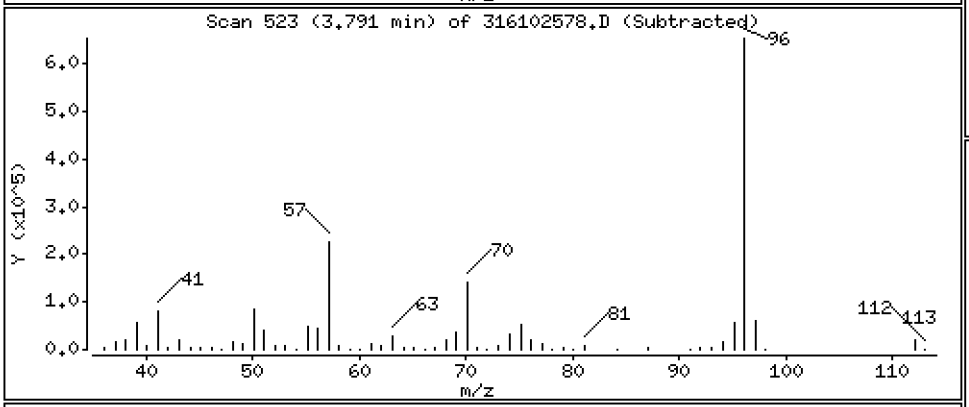
Sample Info: 2429374;;1;3;;MSD;1;

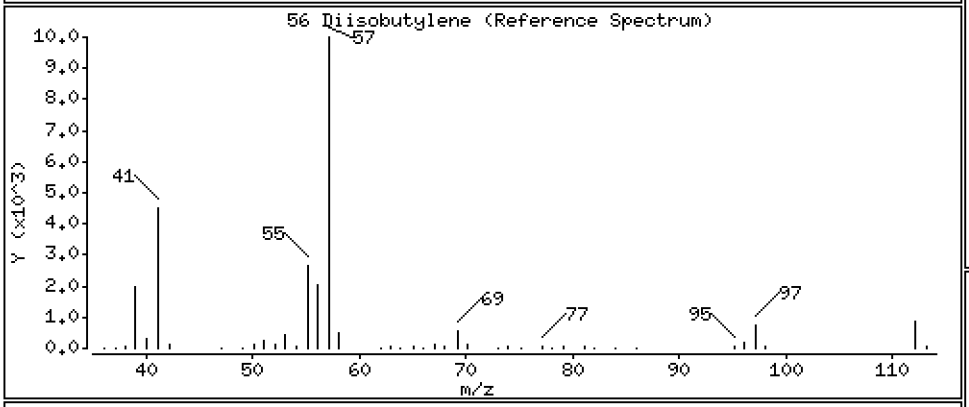
Purge Volume: 5.0 Operator: CJG

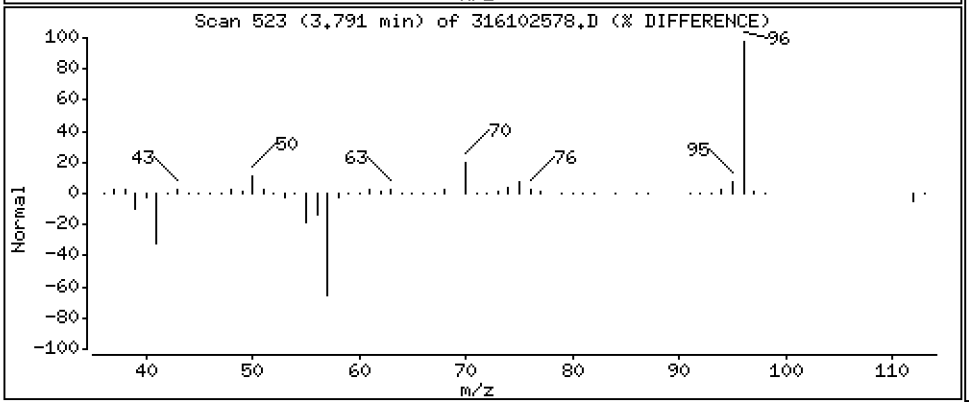
Column phase: DB-VRX Column diameter: 0.25

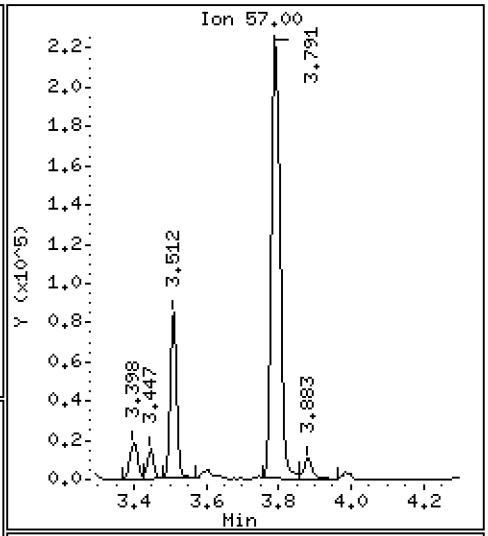
56 Diisobutylene Concentration: 18.0217 ug/L

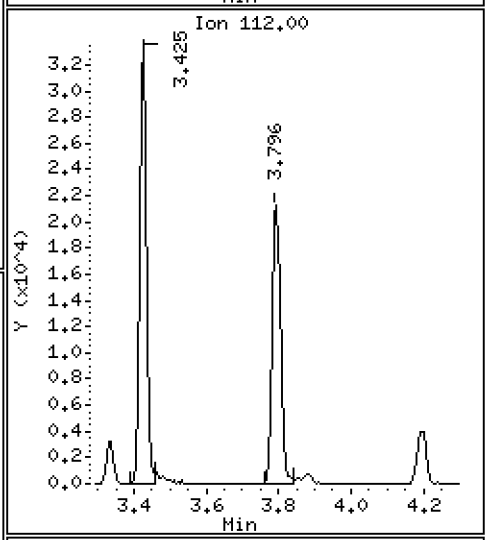


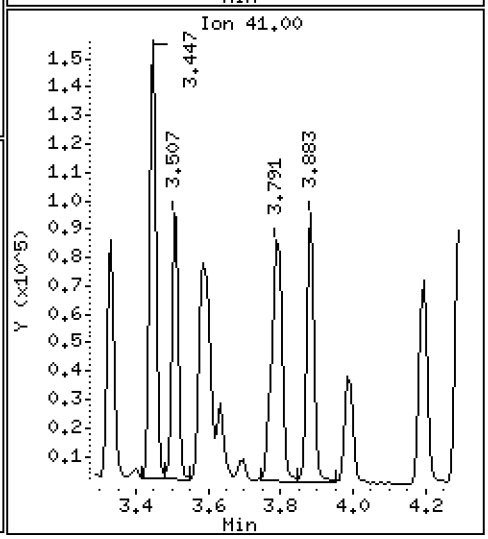












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 66

Date : 26-OCT-2016 07:52

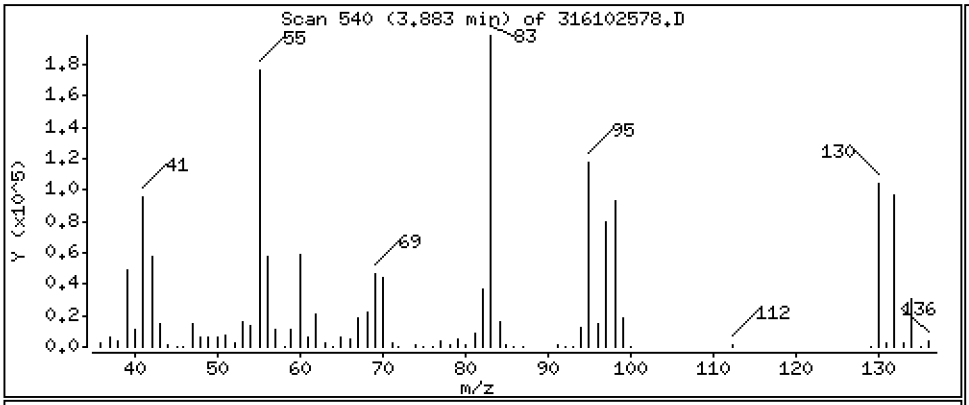
Client ID: 2184163001MSD Instrument: ms03.i

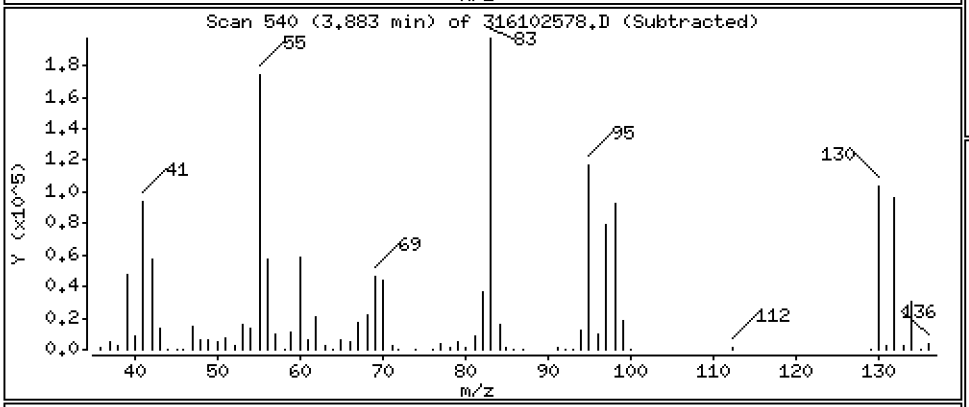
Sample Info: 2429374;;1;3;;MSD;1;

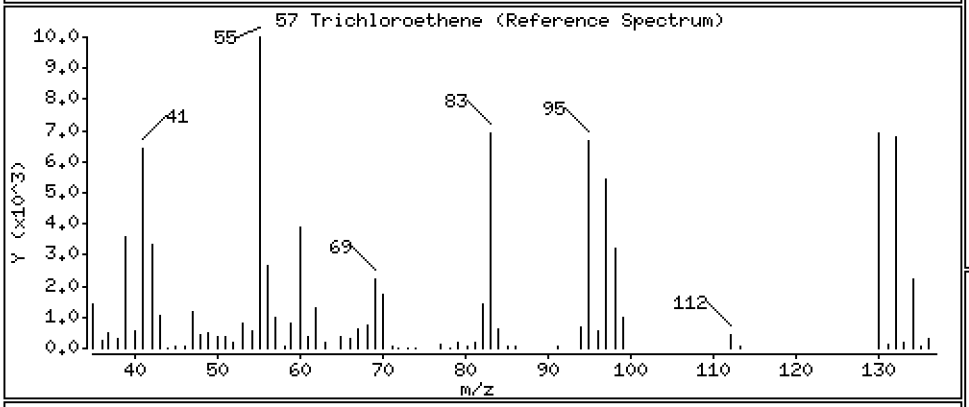
Purge Volume: 5.0 Operator: CJG

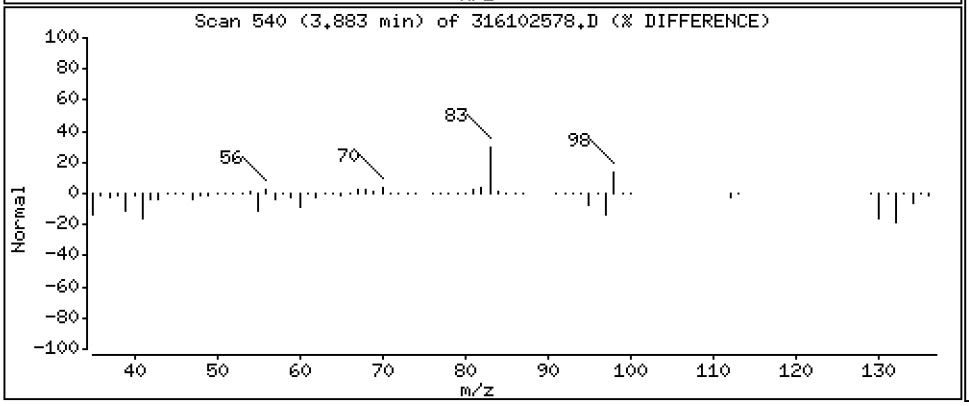
Column phase: DB-VRX Column diameter: 0.25

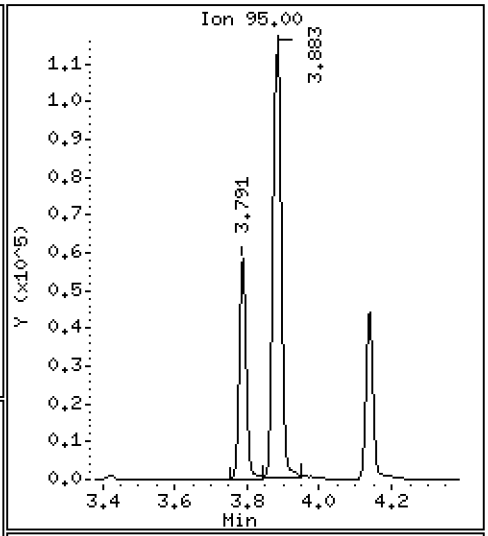
57 Trichloroethene Concentration: 20.1092 ug/L

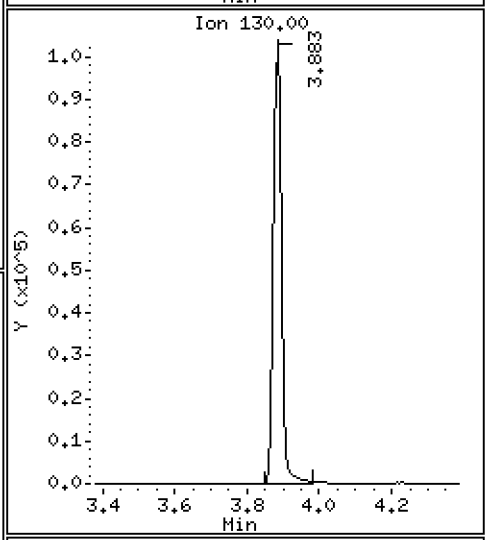


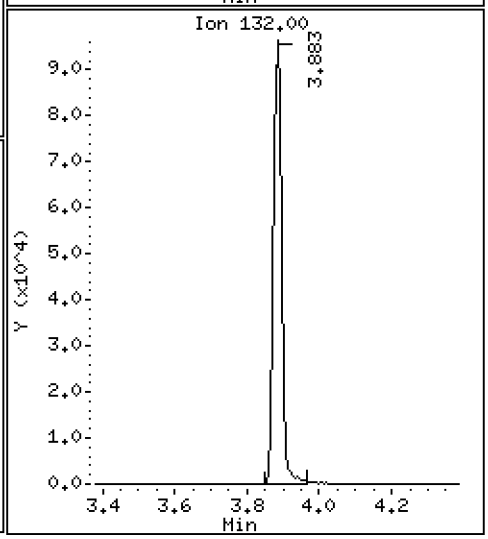












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 67

Date : 26-OCT-2016 07:52

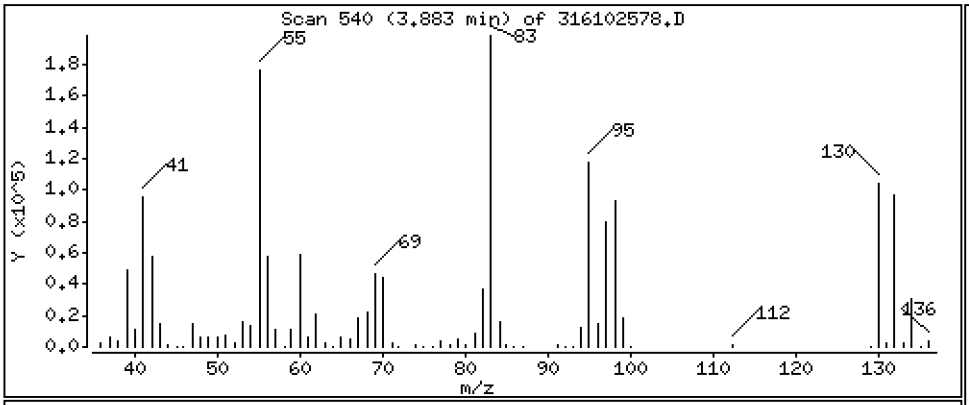
Client ID: 2184163001MSD Instrument: ms03.i

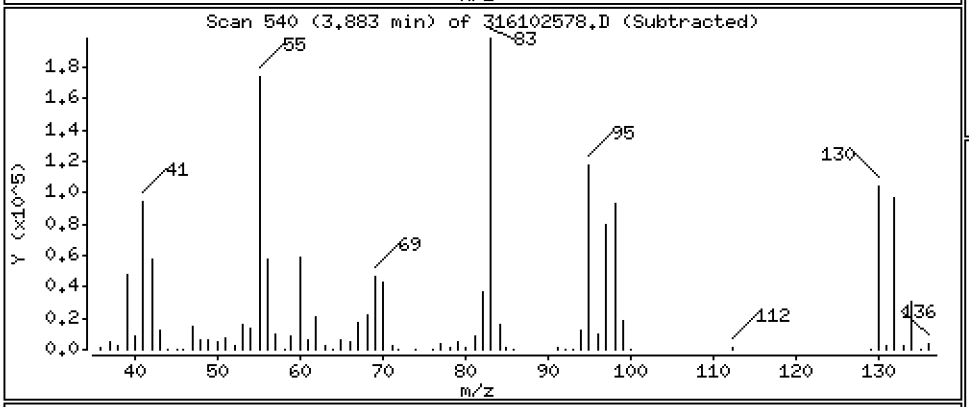
Sample Info: 2429374;;1;3;;MSD;1;

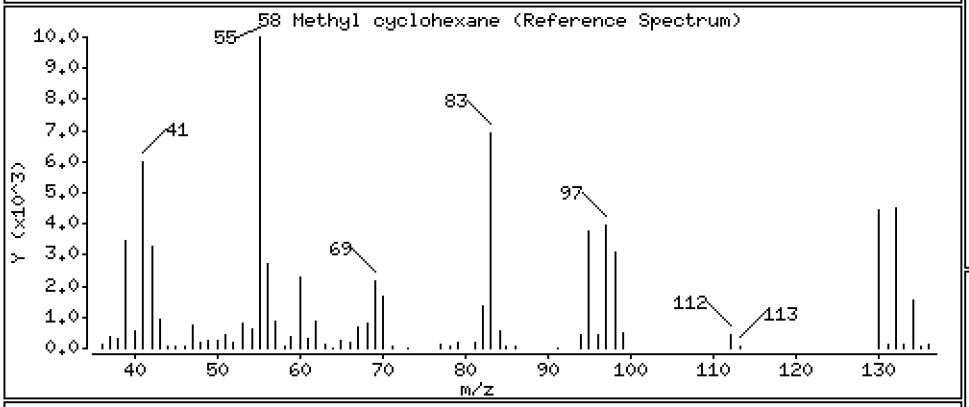
Purge Volume: 5.0 Operator: CJG

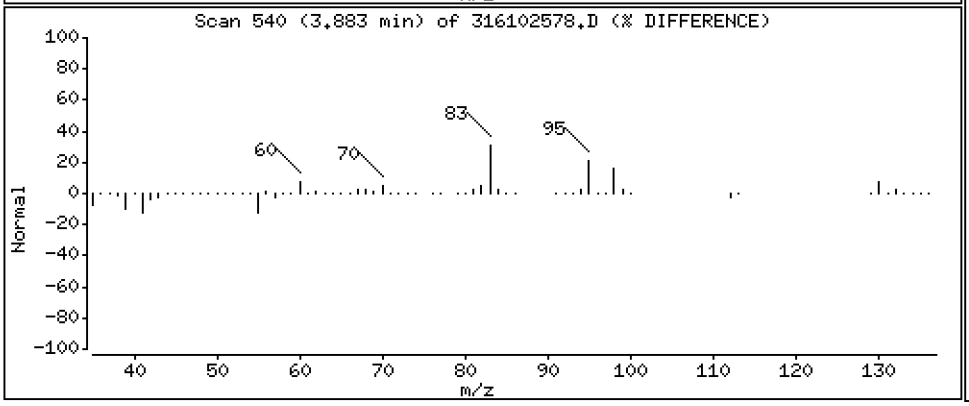
Column phase: DB-VRX Column diameter: 0.25

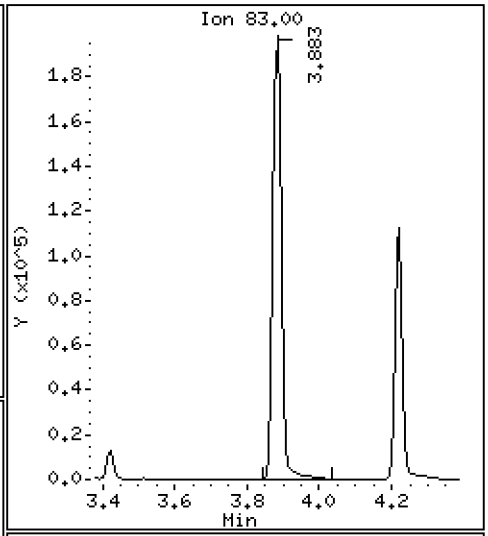
58 Methyl cyclohexane Concentration: 21.6637 ug/L

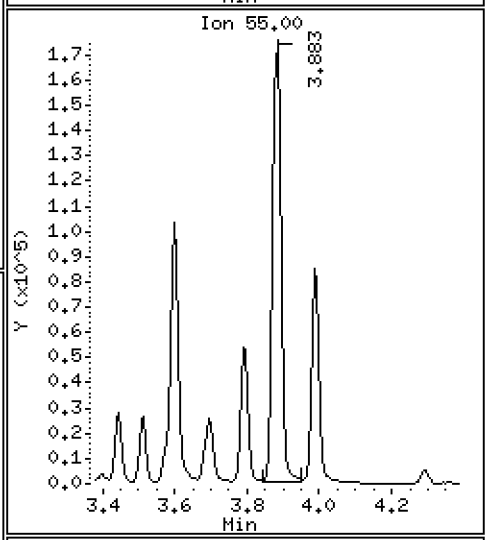


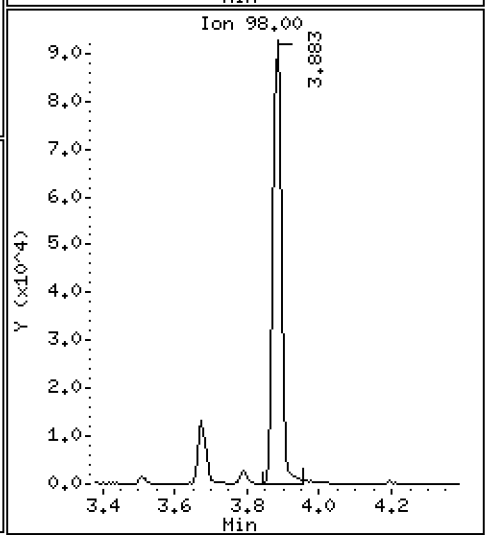












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 68

Date : 26-OCT-2016 07:52

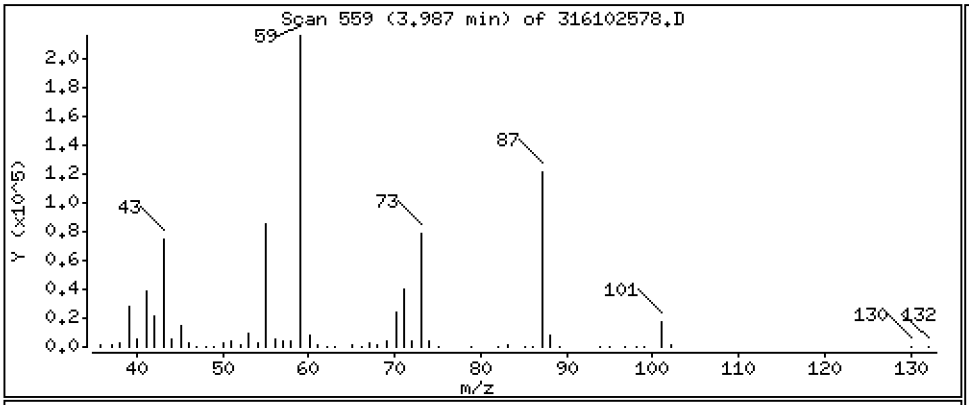
Client ID: 2184163001MSD Instrument: ms03.i

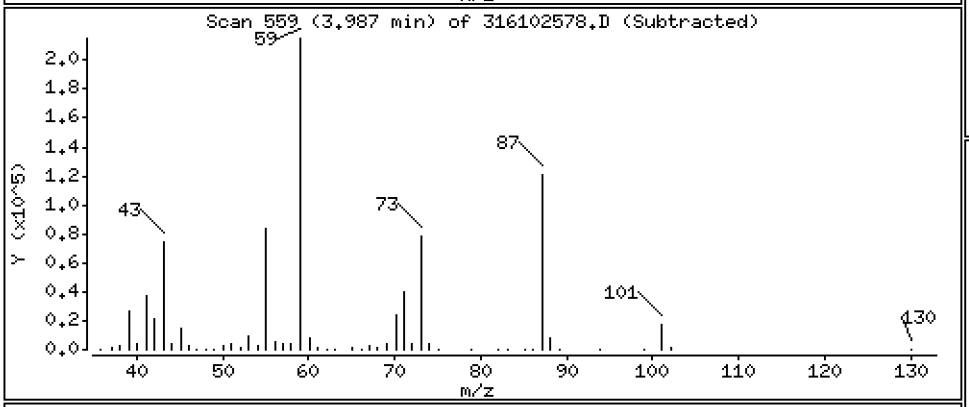
Sample Info: 2429374;;1;3;;MSD;1;

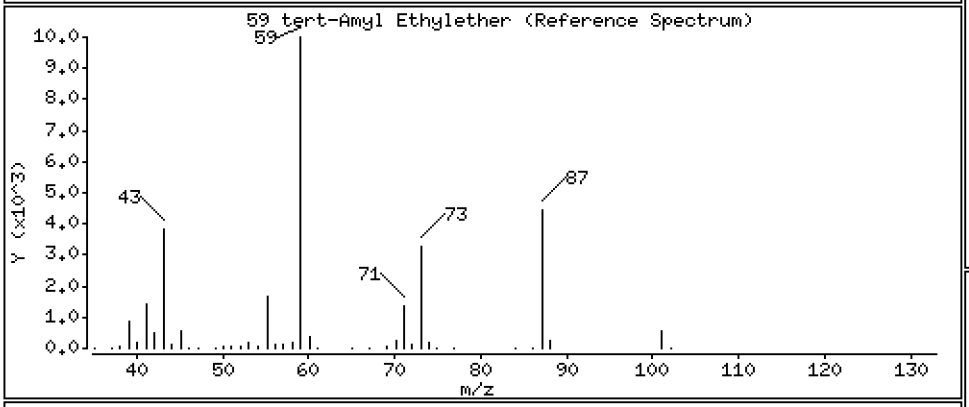
Purge Volume: 5.0 Operator: CJG

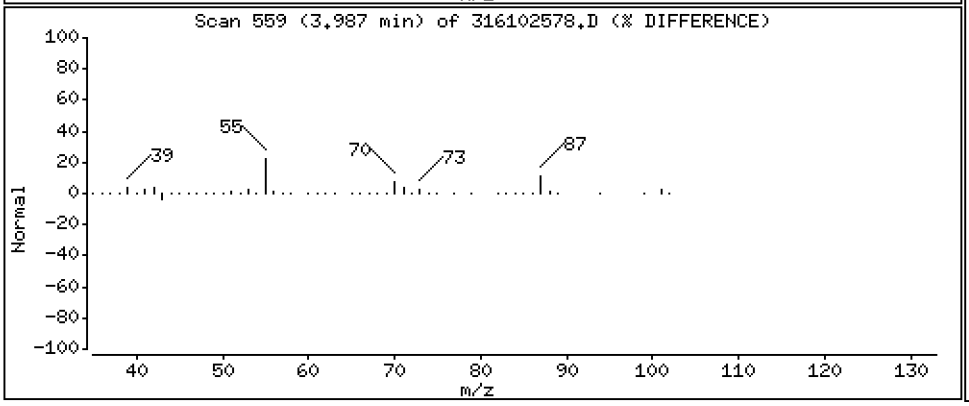
Column phase: DB-VRX Column diameter: 0.25

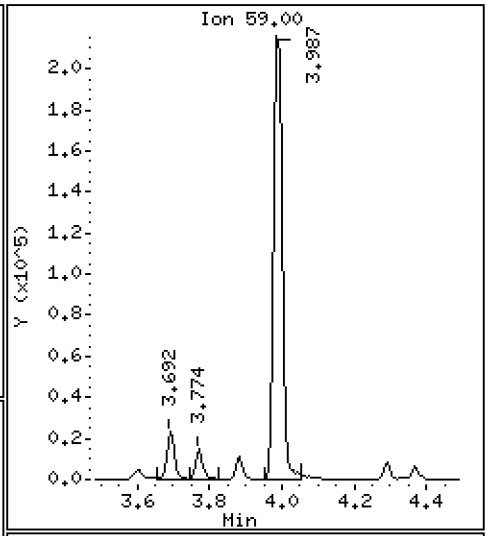
59 tert-Amyl Ethylether Concentration: 20.4186 ug/L

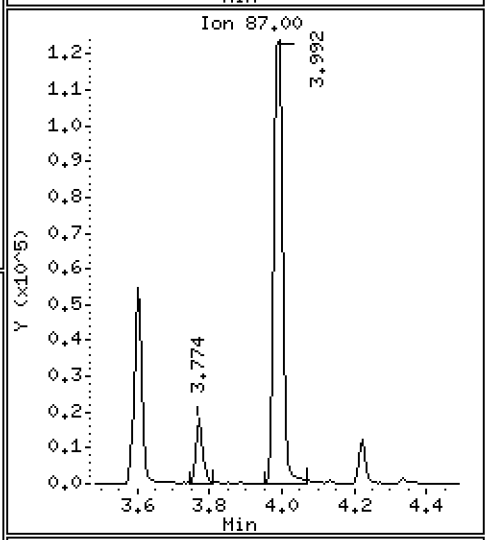


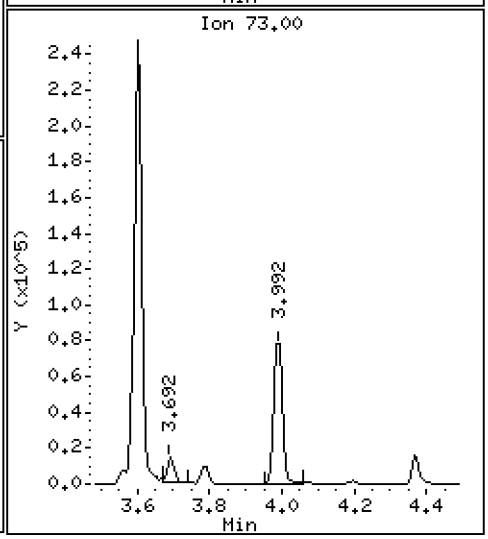












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 69

Date : 26-OCT-2016 07:52

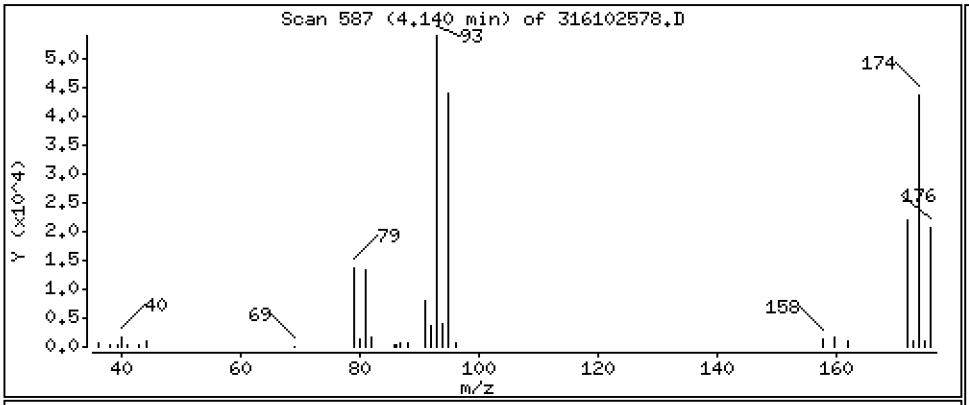
Client ID: 2184163001MSD Instrument: ms03.i

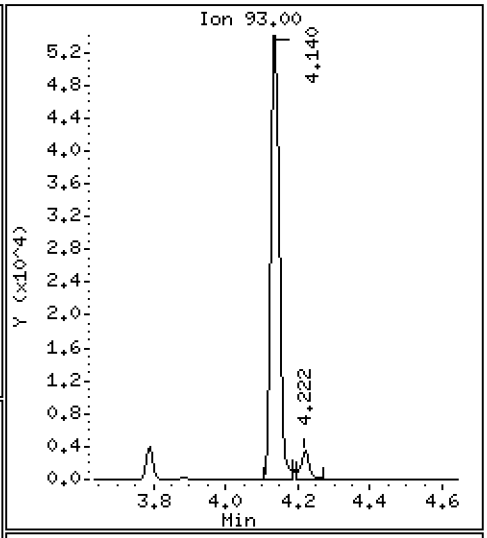
Sample Info: 2429374;;1;3;;MSD;1;

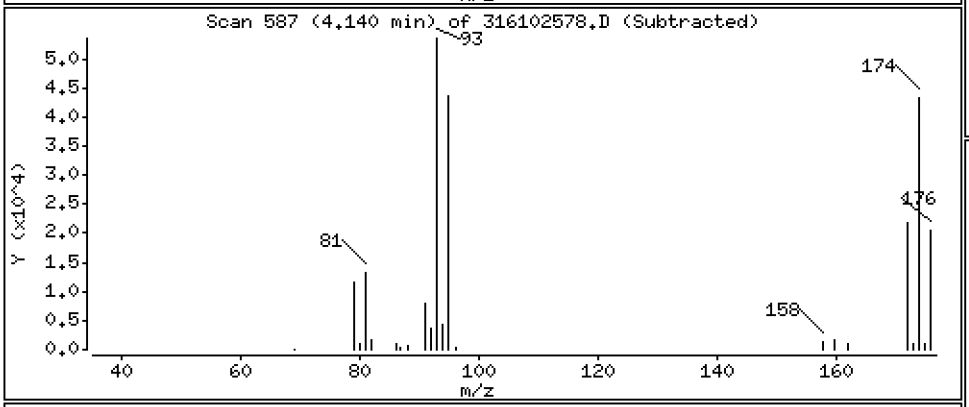
Purge Volume: 5.0 Operator: CJG

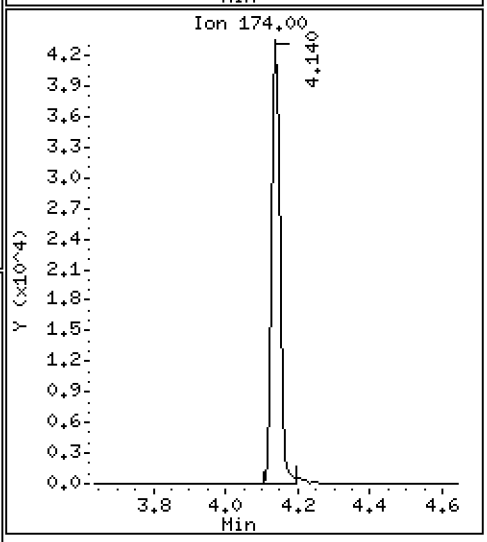
Column phase: DB-VRX Column diameter: 0.25

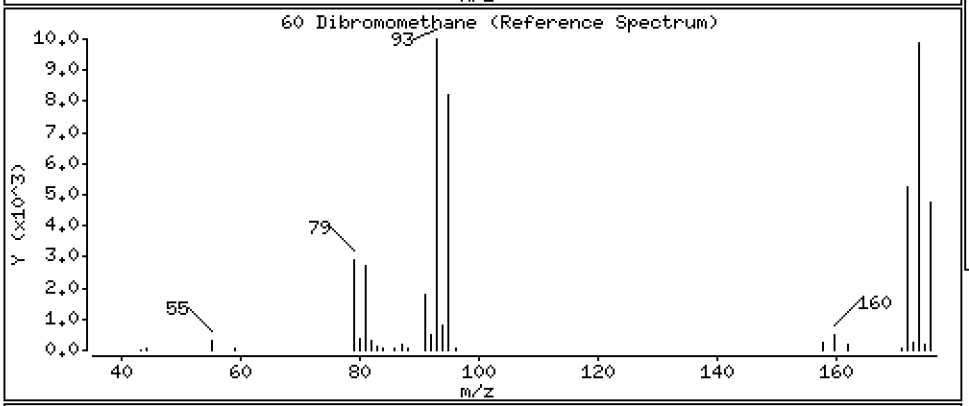
60 Dibromomethane Concentration: 19.4932 ug/L

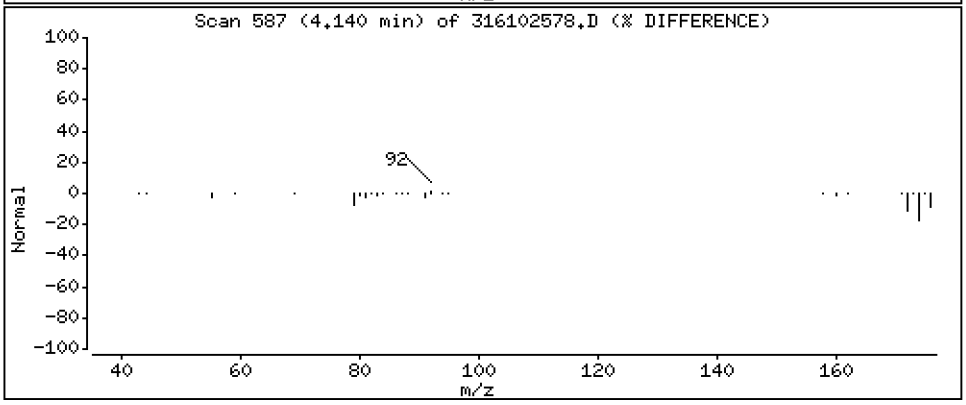












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 70

Date : 26-OCT-2016 07:52

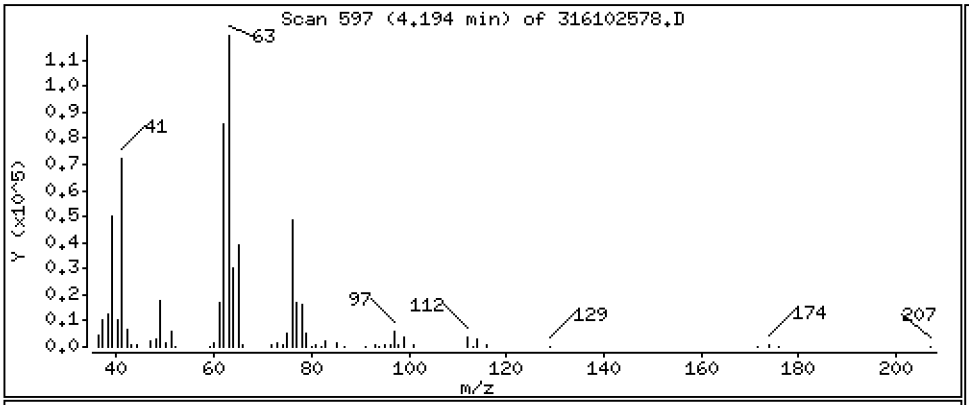
Client ID: 2184163001MSD Instrument: ms03.i

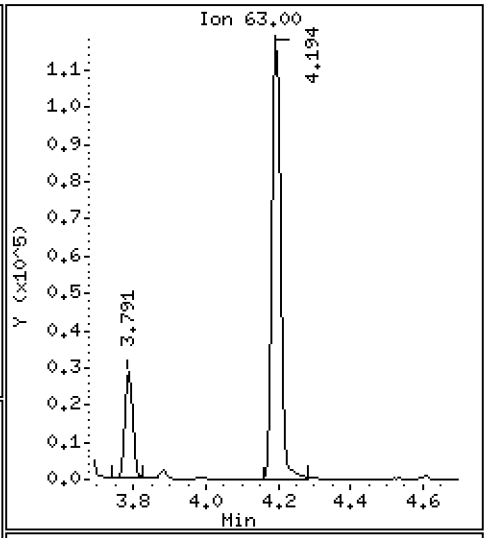
Sample Info: 2429374;;1;3;;MSD;1;

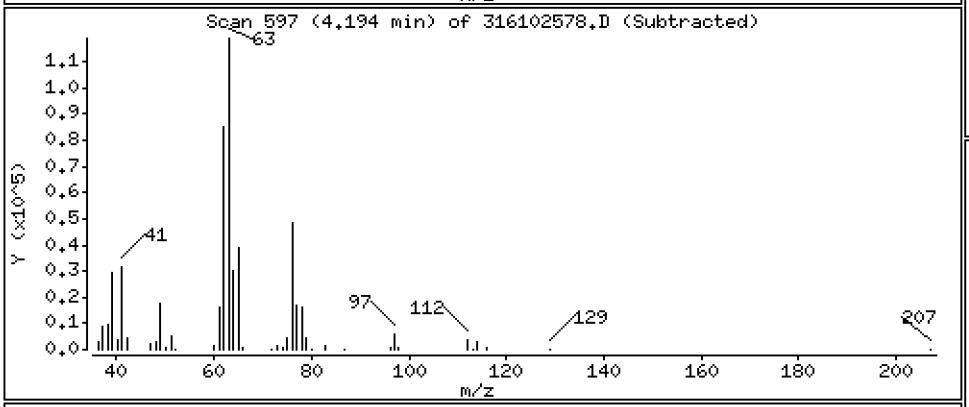
Purge Volume: 5.0 Operator: CJG

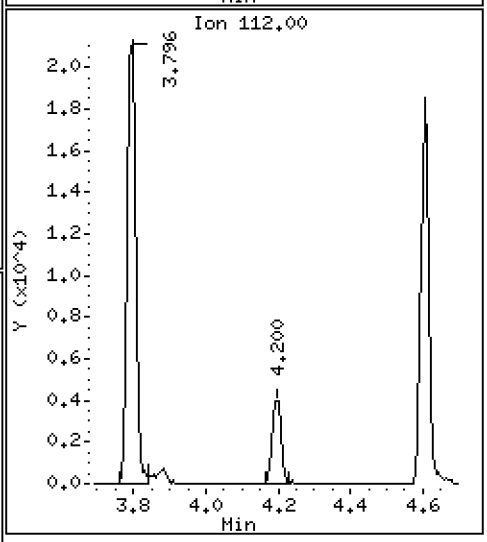
Column phase: DB-VRX Column diameter: 0.25

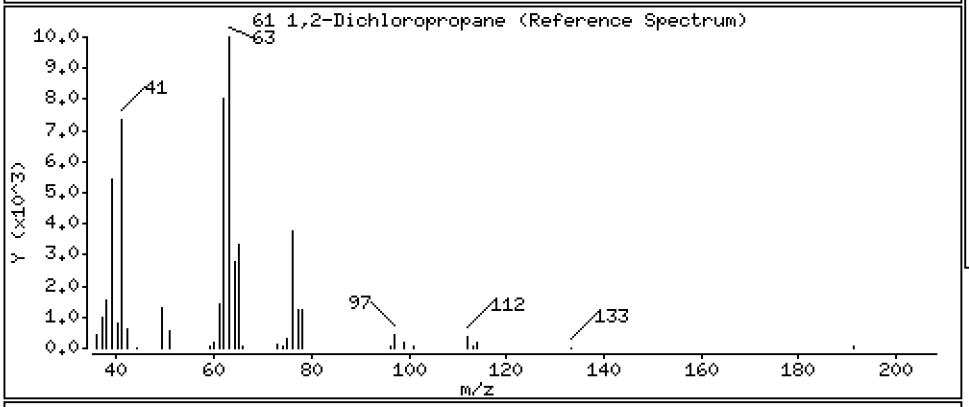
61 1,2-Dichloropropane Concentration: 21.2353 ug/L

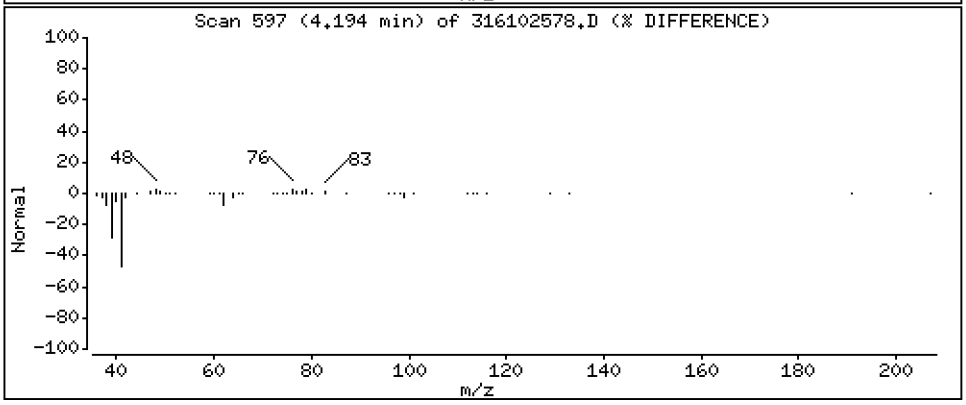












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 71

Date : 26-OCT-2016 07:52

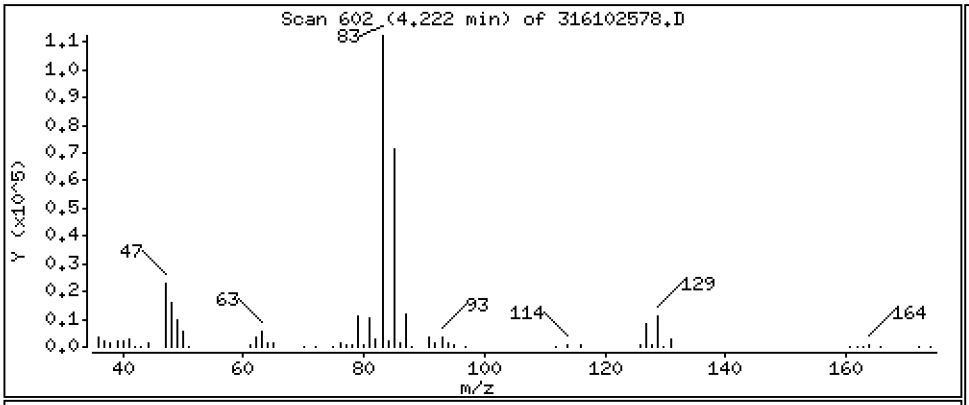
Client ID: 2184163001MSD Instrument: ms03.i

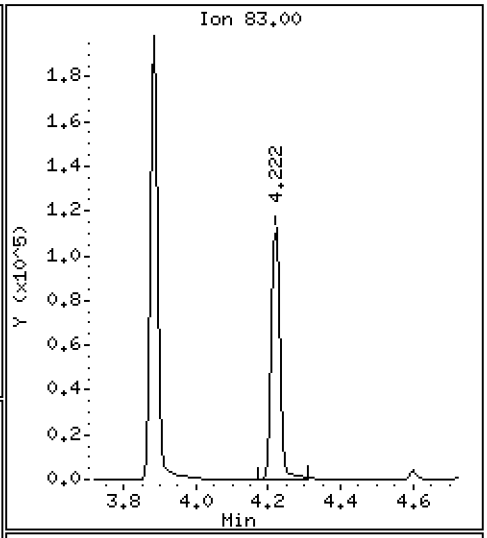
Sample Info: 2429374;;1;3;;MSD;1;

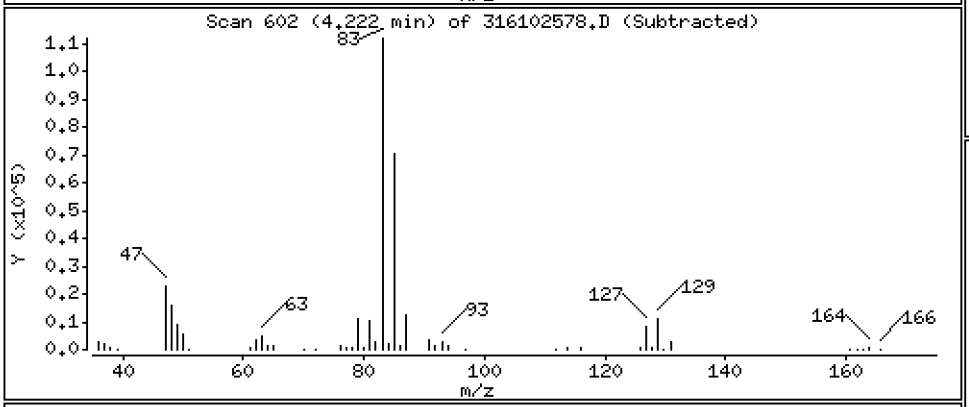
Purge Volume: 5.0 Operator: CJG

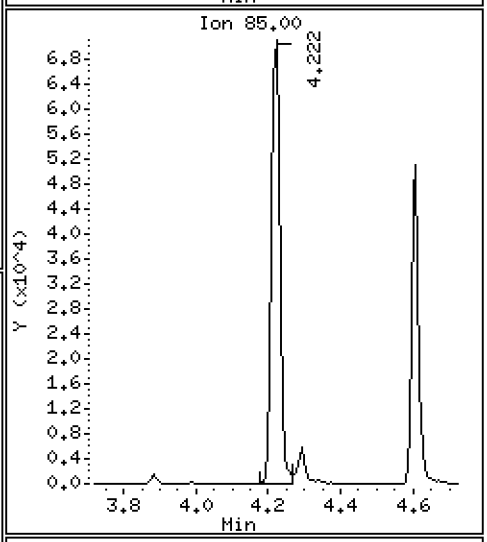
Column phase: DB-VRX Column diameter: 0.25

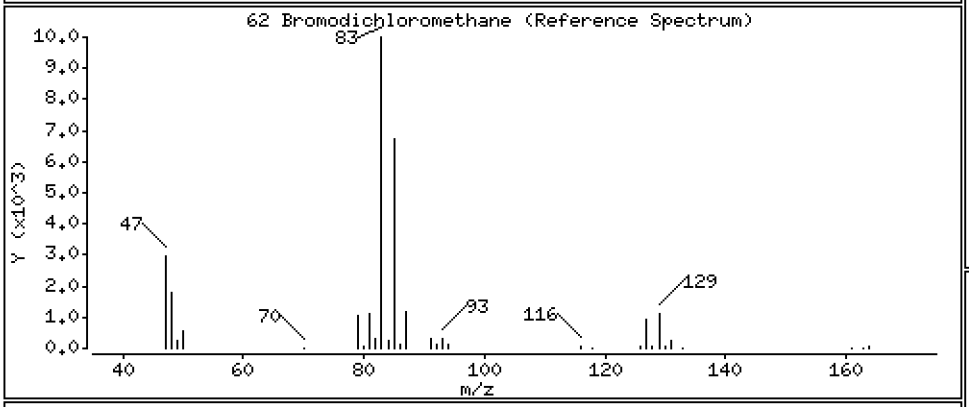
62 Bromodichloromethane Concentration: 20.0531 ug/L

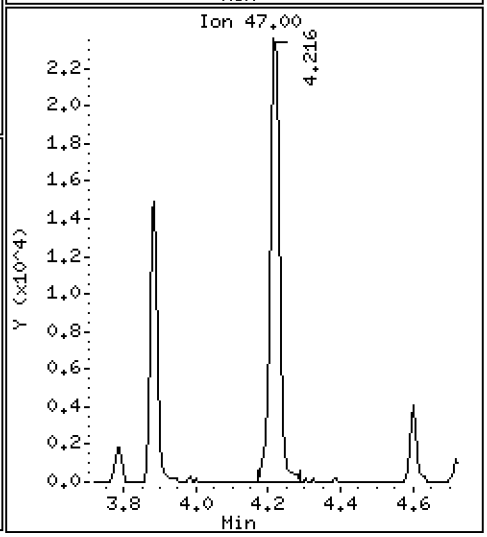


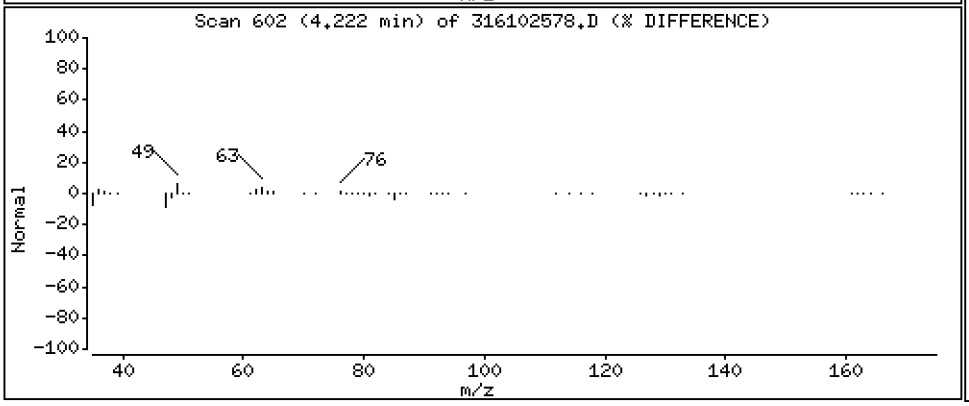












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 72

Date : 26-OCT-2016 07:52

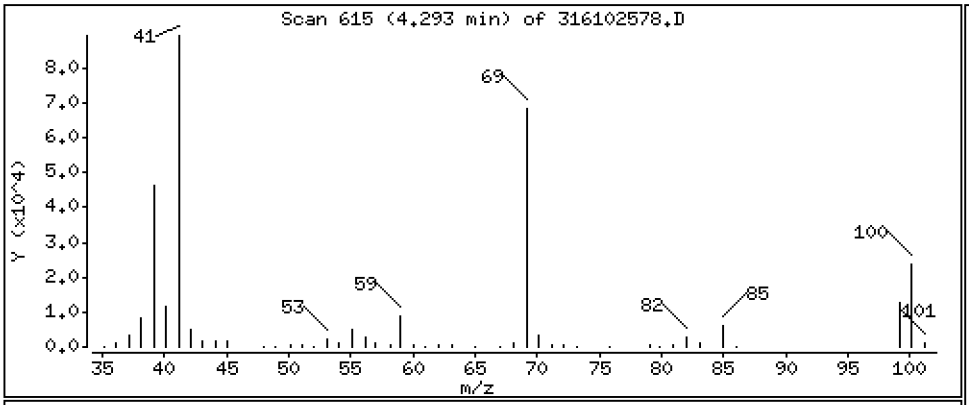
Client ID: 2184163001MSD Instrument: ms03.i

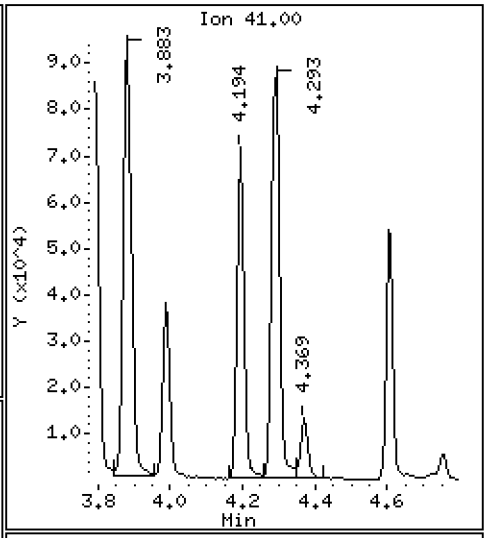
Sample Info: 2429374;;1;3;;MSD;1;

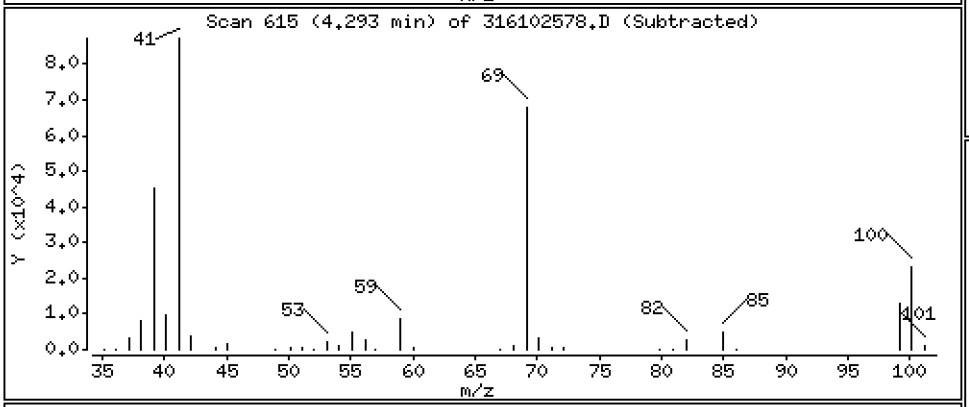
Purge Volume: 5.0 Operator: CJG

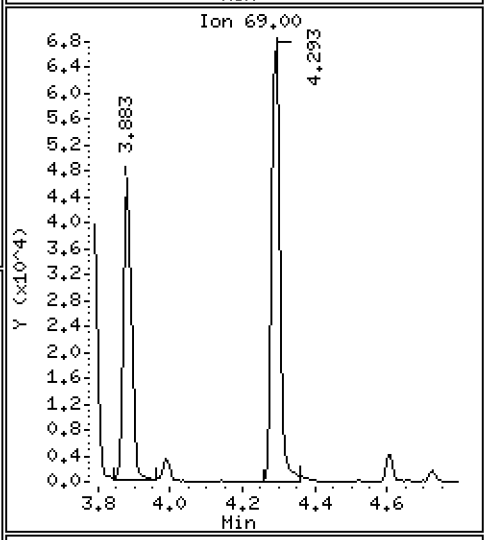
Column phase: DB-VRX Column diameter: 0.25

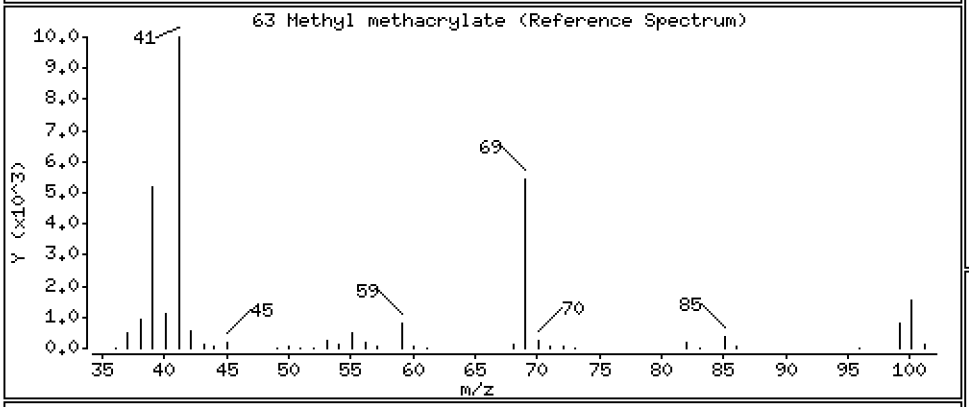
63 Methyl methacrylate Concentration: 21.4530 ug/L

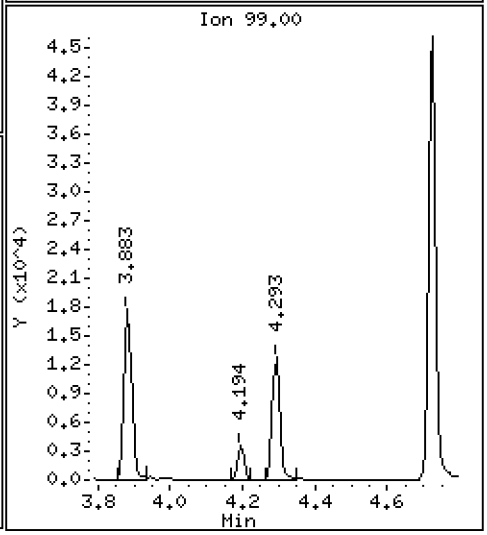


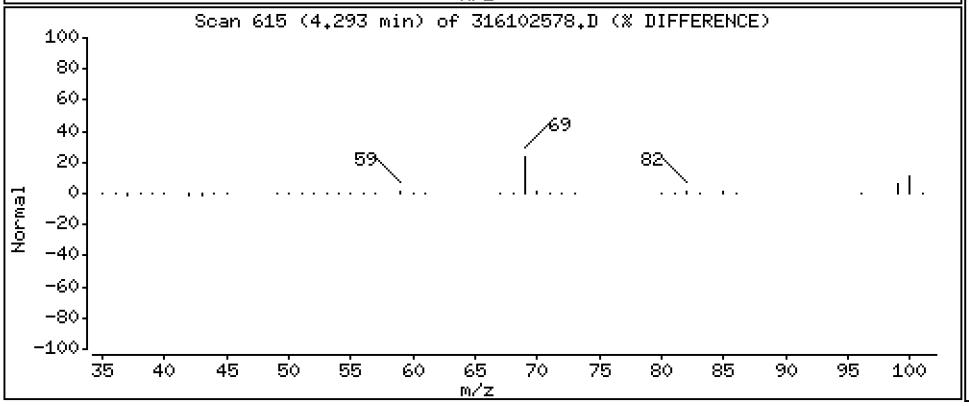












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 73

Date : 26-OCT-2016 07:52

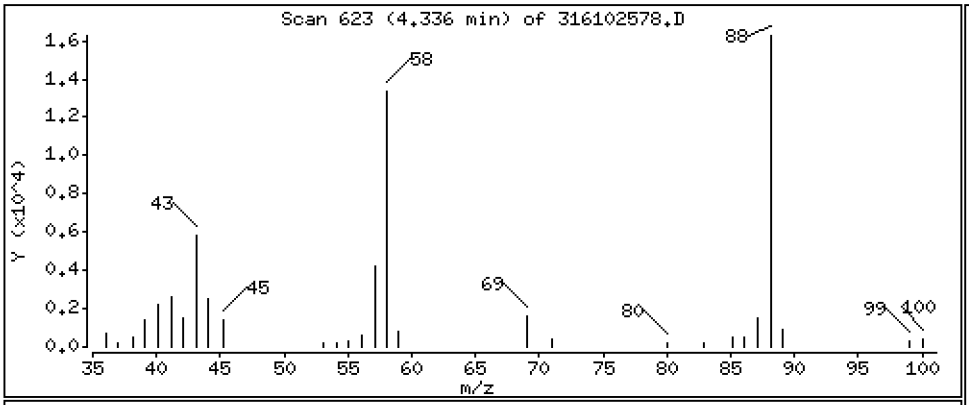
Client ID: 2184163001MSD Instrument: ms03.i

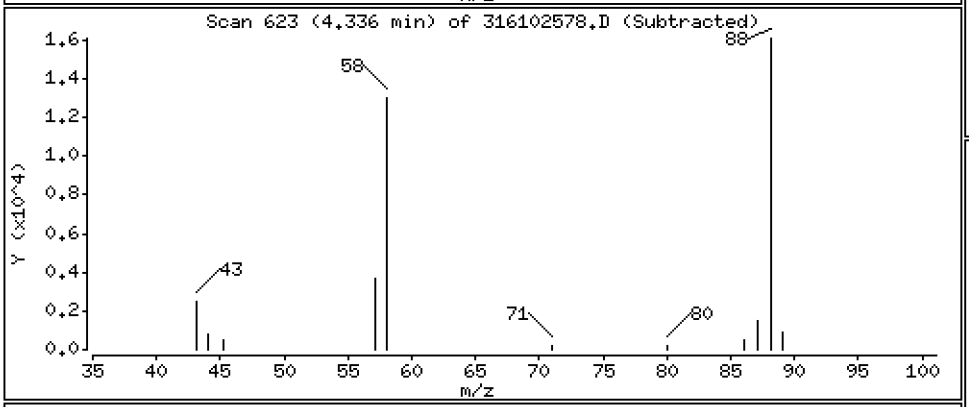
Sample Info: 2429374;;1;3;;MSD;1;

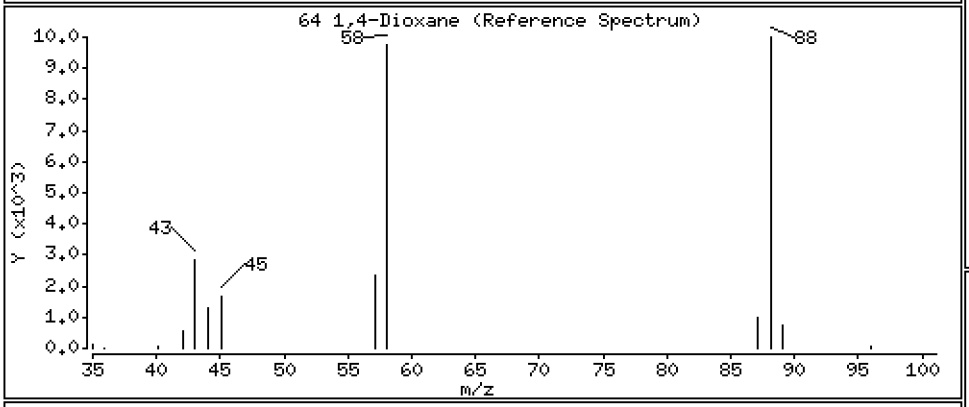
Purge Volume: 5.0 Operator: CJG

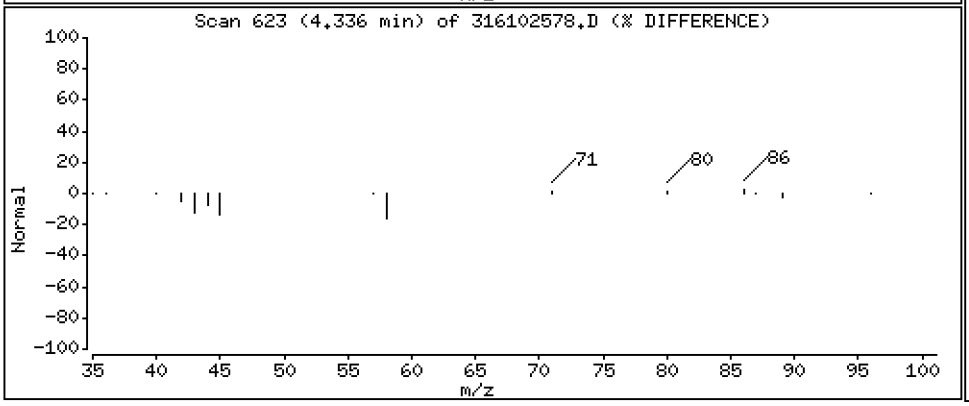
Column phase: DB-VRX Column diameter: 0.25

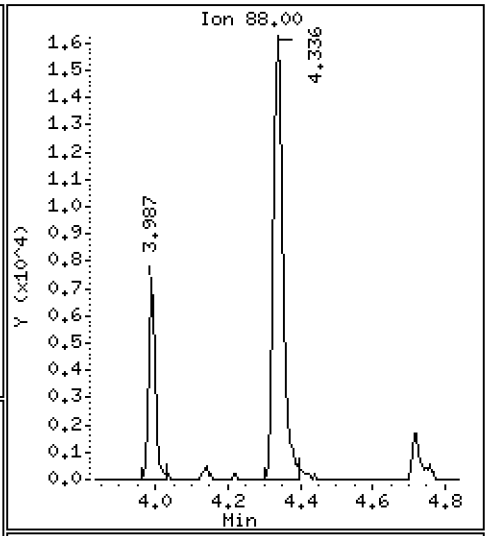
64 1,4-Dioxane Concentration: 996.359 ug/L

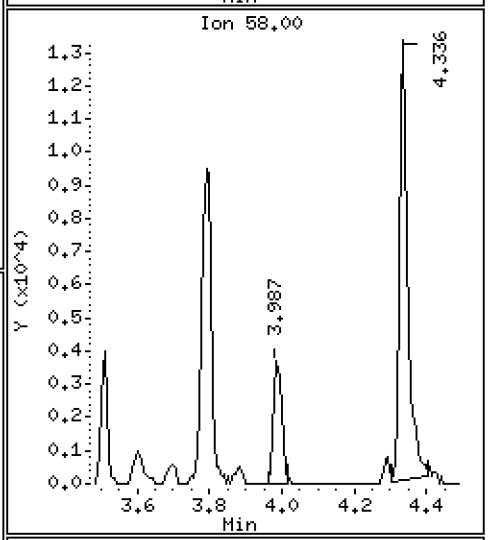


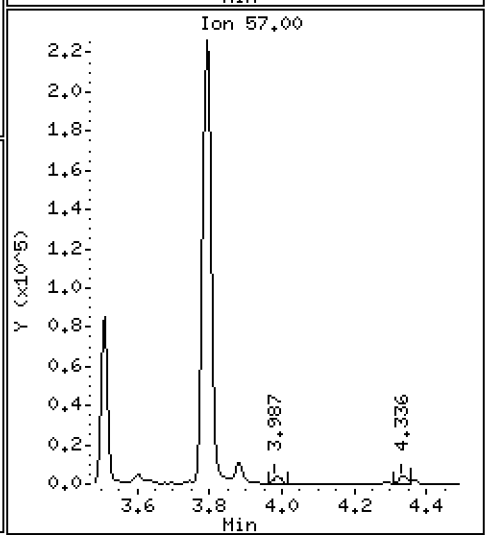












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 74

Date : 26-OCT-2016 07:52

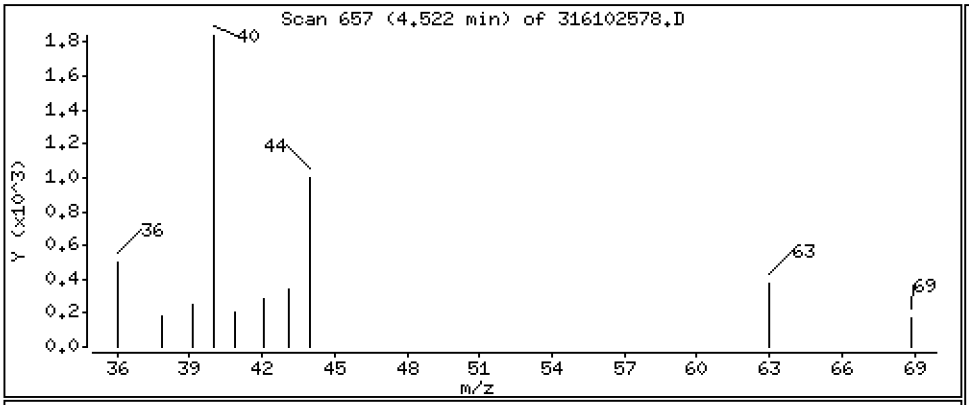
Client ID: 2184163001MSD Instrument: ms03.i

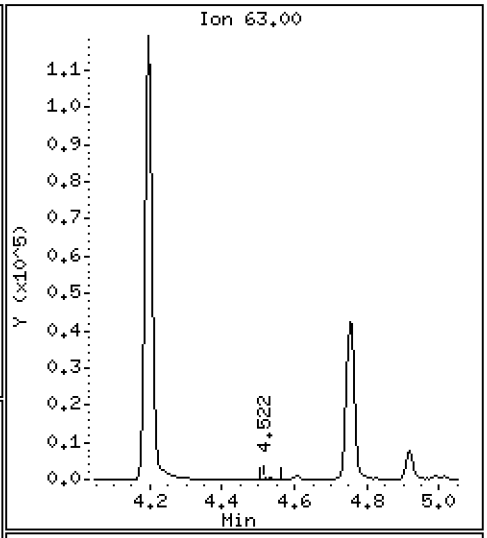
Sample Info: 2429374;;1;3;;MSD;1;

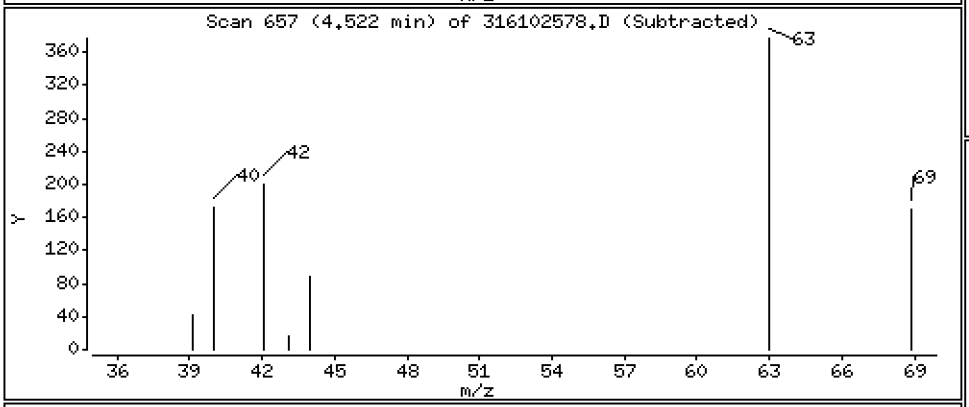
Purge Volume: 5.0 Operator: CJG

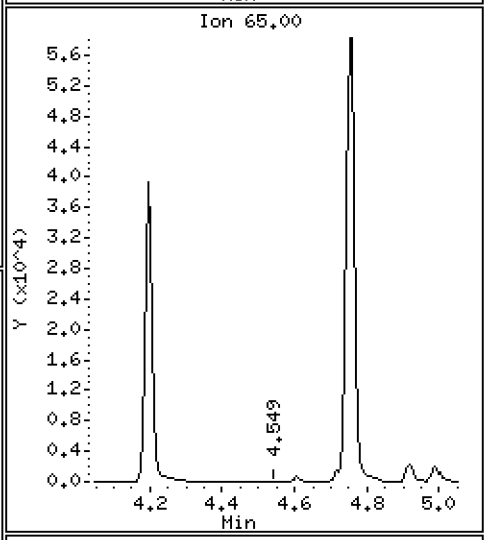
Column phase: DB-VRX Column diameter: 0.25

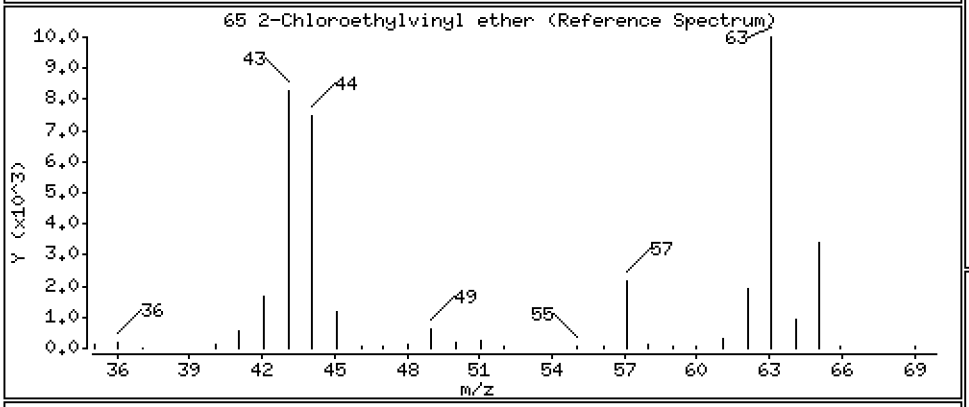
65 2-Chloroethylvinyl ether Concentration: 0.115784 ug/L

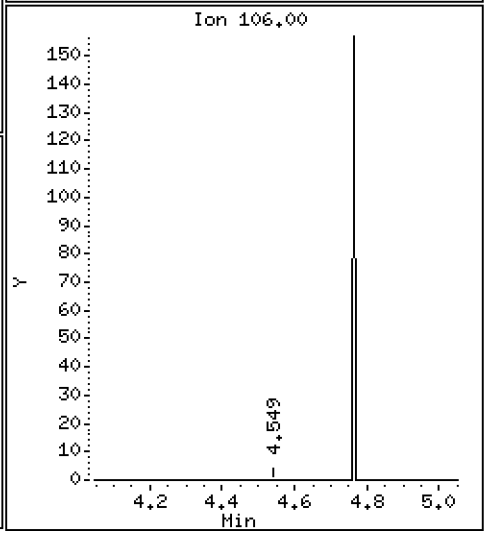


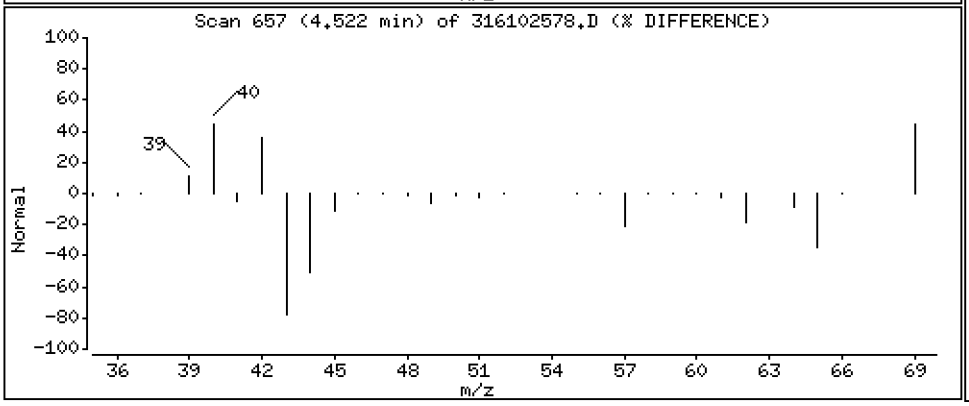












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 75

Date : 26-OCT-2016 07:52

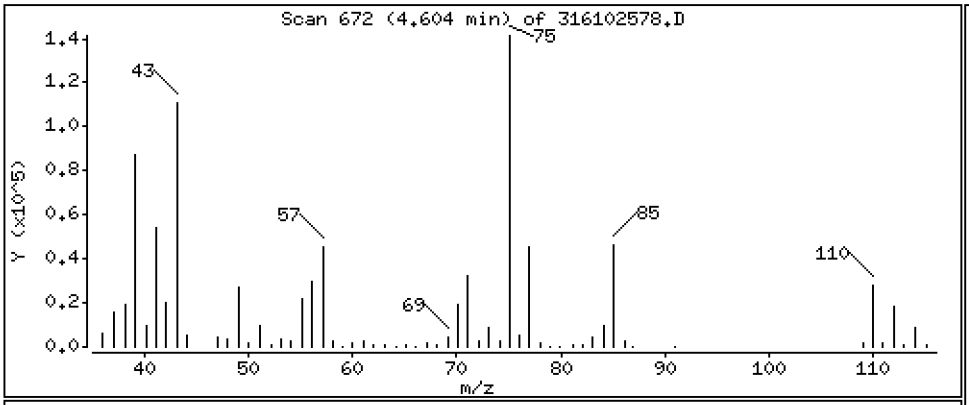
Client ID: 2184163001MSD Instrument: ms03.i

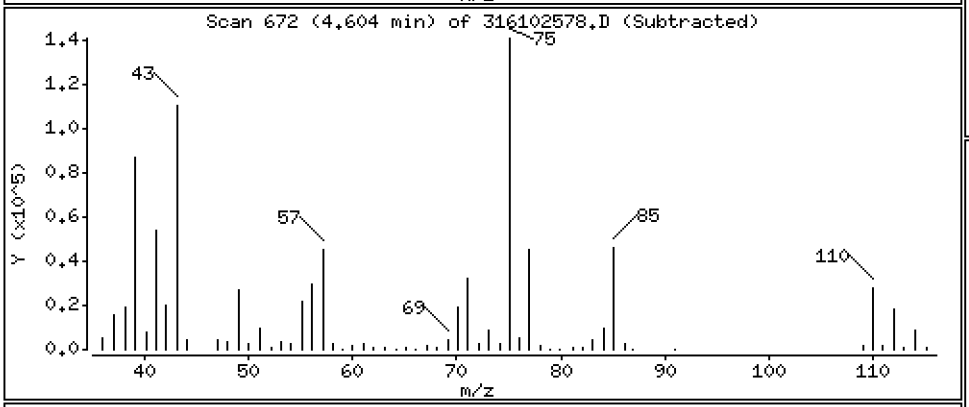
Sample Info: 2429374;;1;3;;MSD;1;

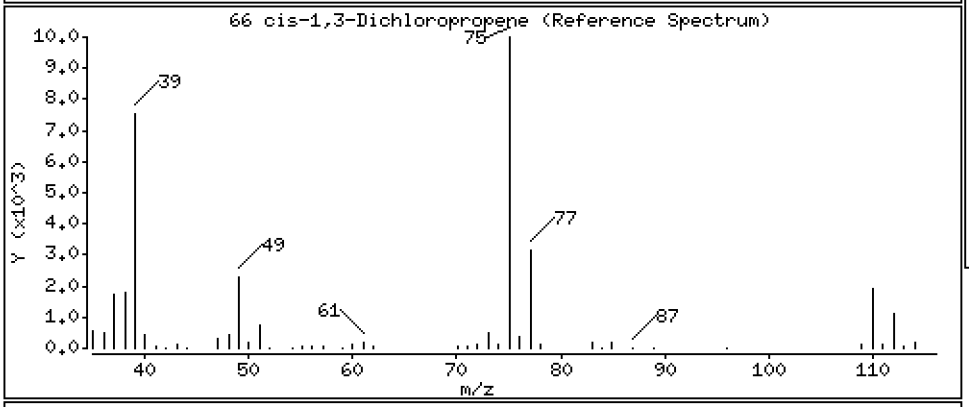
Purge Volume: 5.0 Operator: CJG

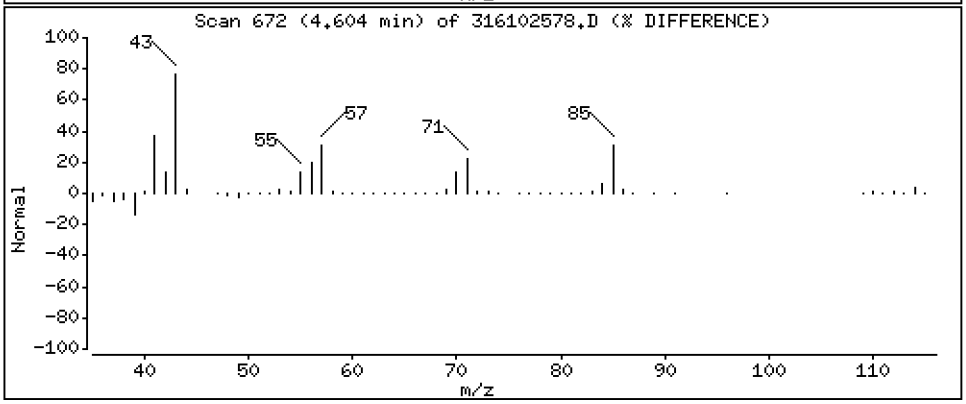
Column phase: DB-VRX Column diameter: 0.25

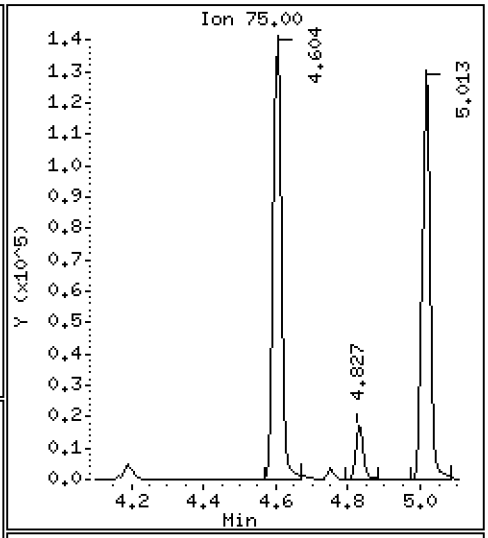
66 cis-1,3-Dichloropropene Concentration: 17.5665 ug/L

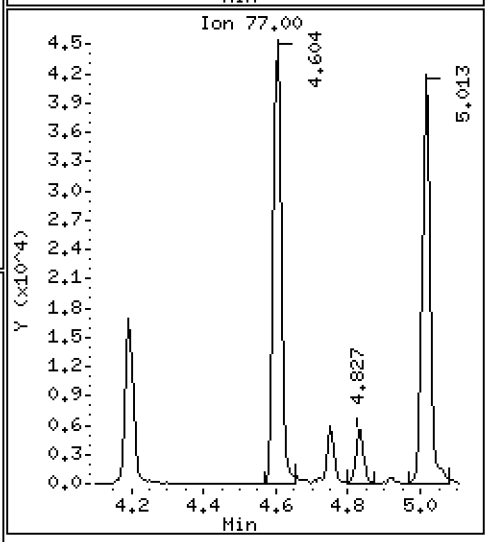












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 76

Date : 26-OCT-2016 07:52

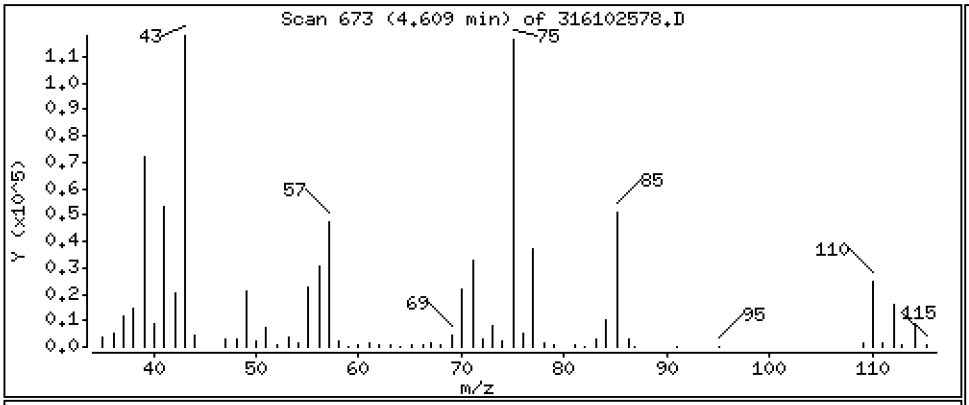
Client ID: 2184163001MSD Instrument: ms03.i

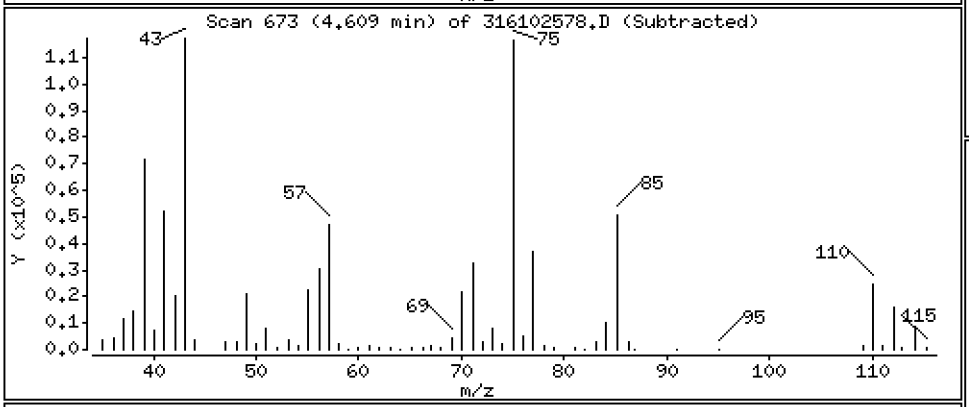
Sample Info: 2429374;;1;3;;MSD;1;

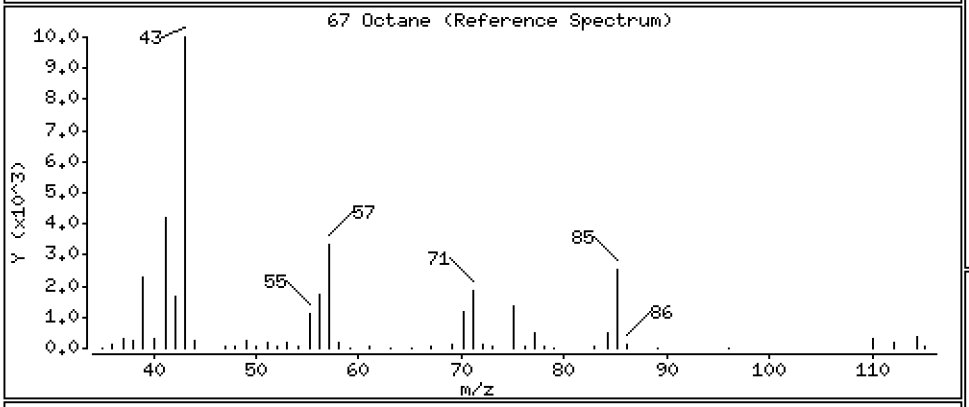
Purge Volume: 5.0 Operator: CJG

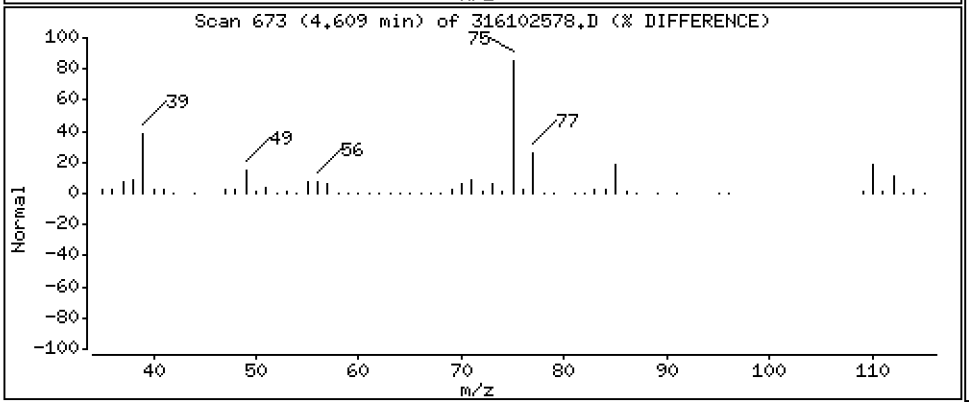
Column phase: DB-VRX Column diameter: 0.25

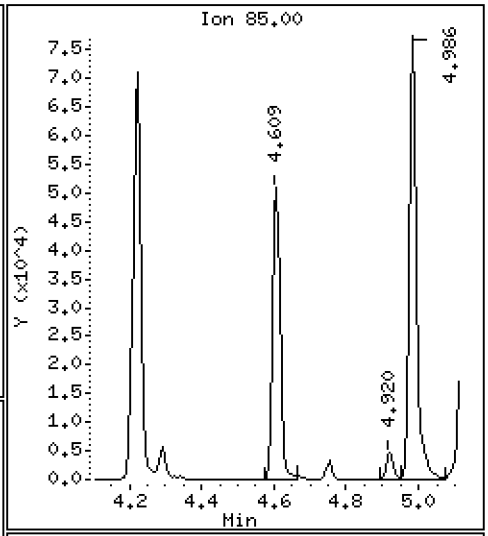
67 Octane Concentration: 19.6926 ug/L

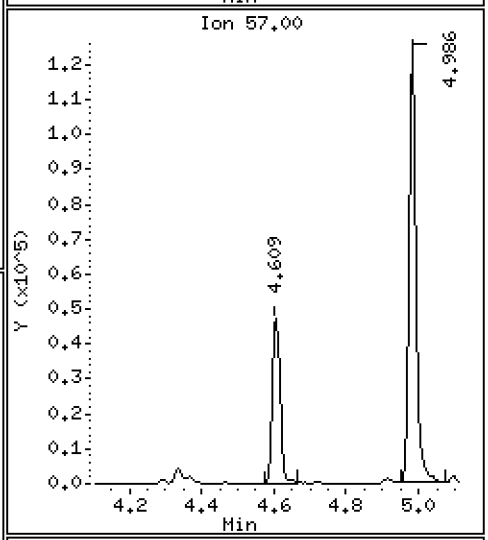


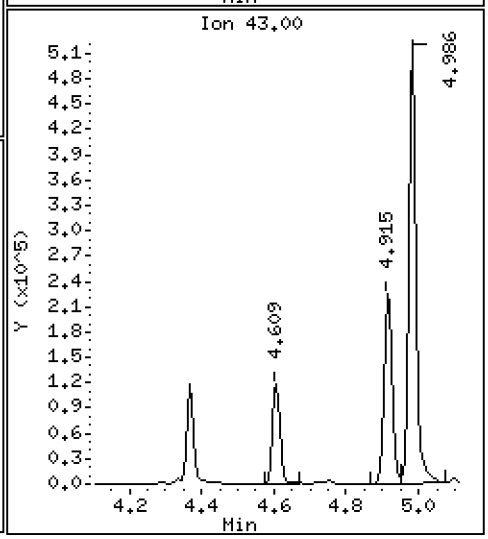












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 77

Date : 26-OCT-2016 07:52

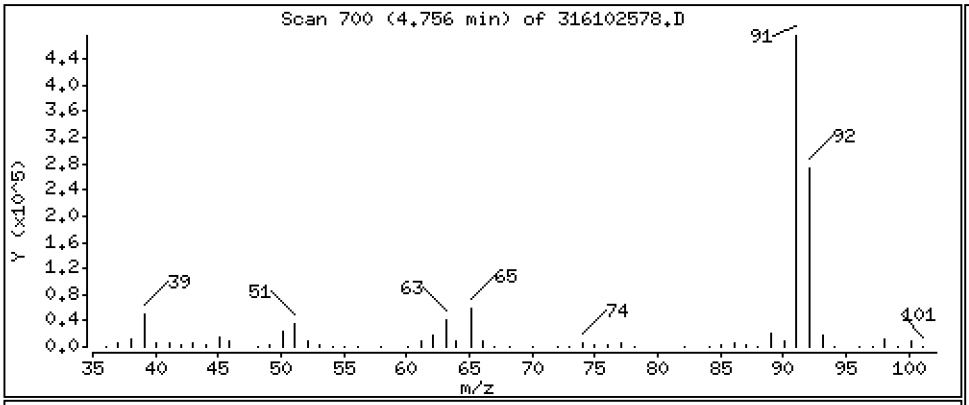
Client ID: 2184163001MSD Instrument: ms03.i

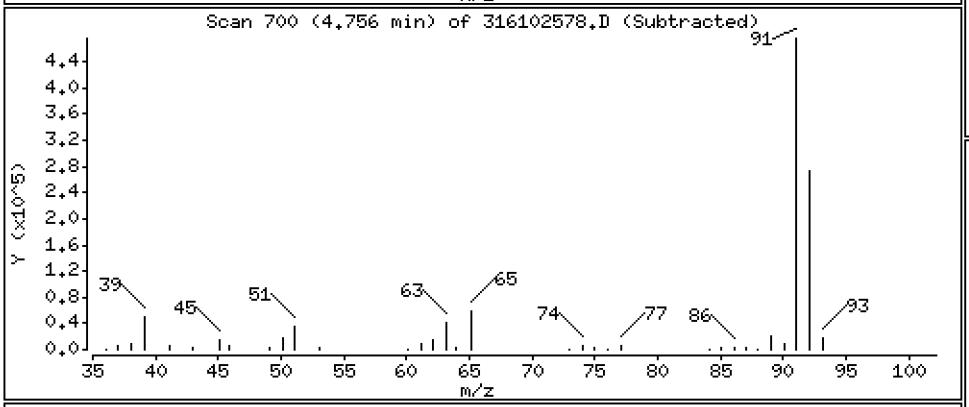
Sample Info: 2429374;;1;3;;MSD;1;

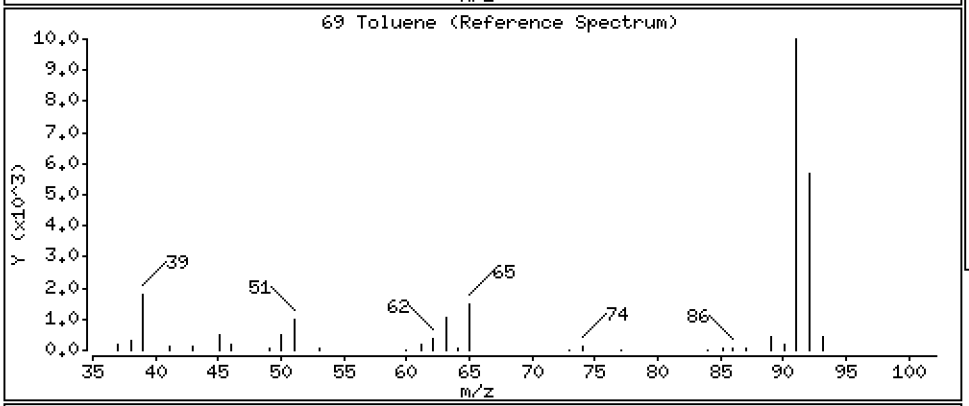
Purge Volume: 5.0 Operator: CJG

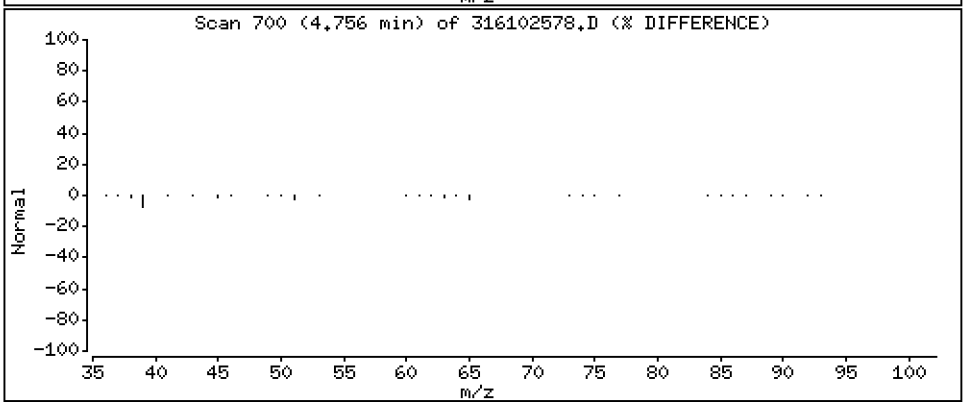
Column phase: DB-VRX Column diameter: 0.25

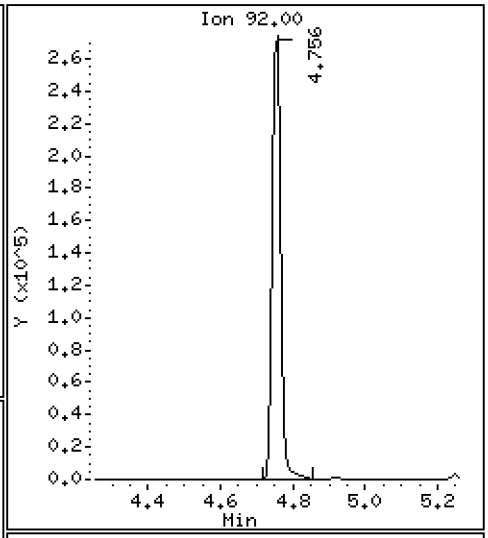
69 Toluene Concentration: 19.8422 ug/L

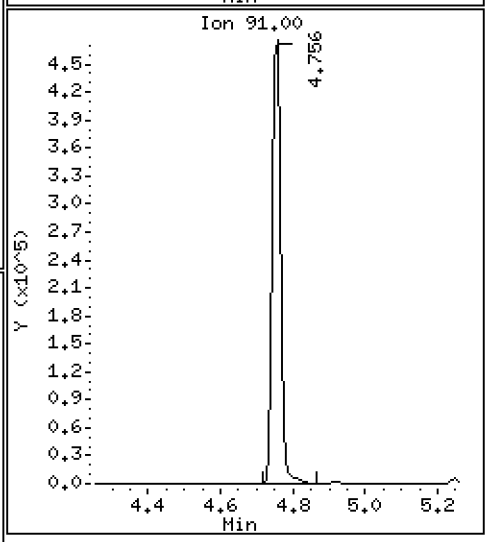












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 78

Date : 26-OCT-2016 07:52

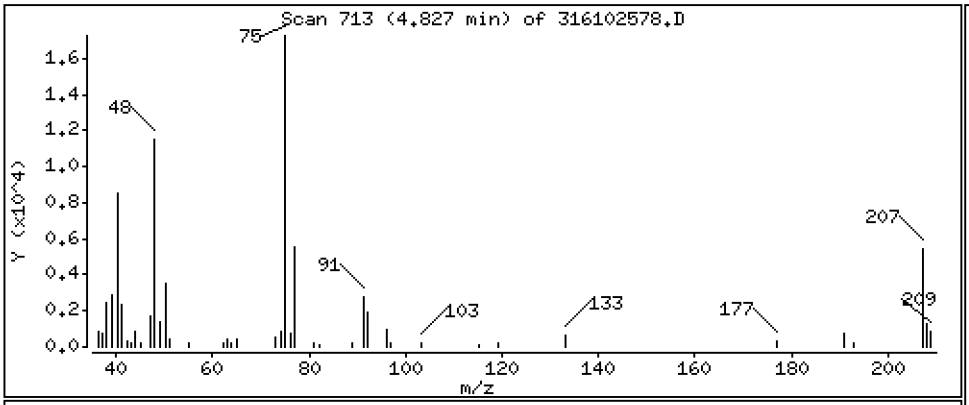
Client ID: 2184163001MSD Instrument: ms03.i

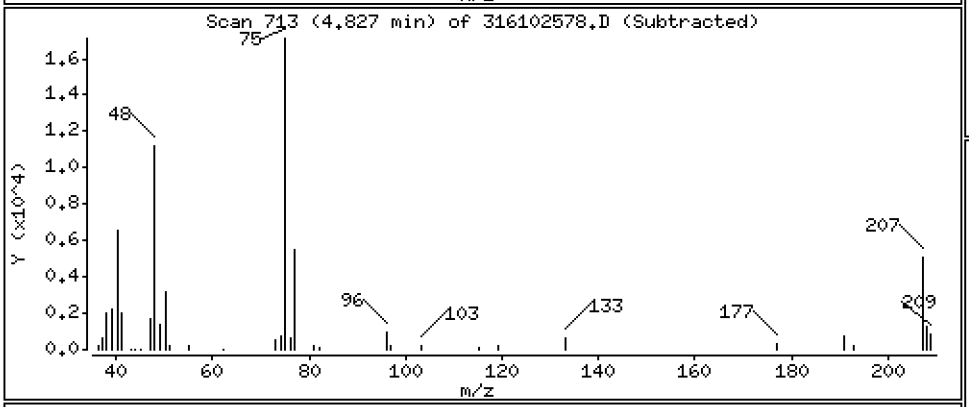
Sample Info: 2429374;;1;3;;MSD;1;

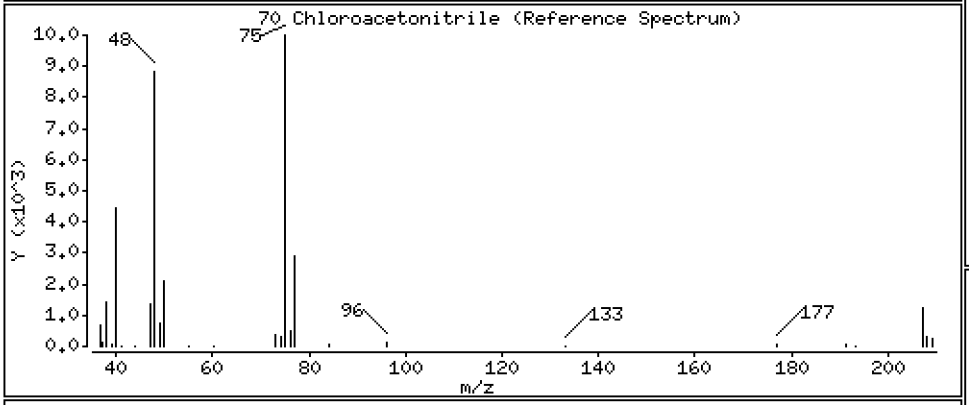
Purge Volume: 5.0 Operator: CJG

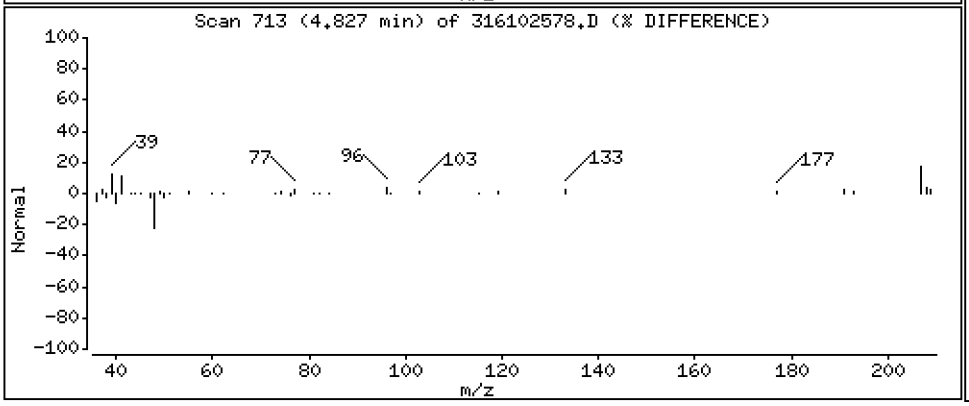
Column phase: DB-VRX Column diameter: 0.25

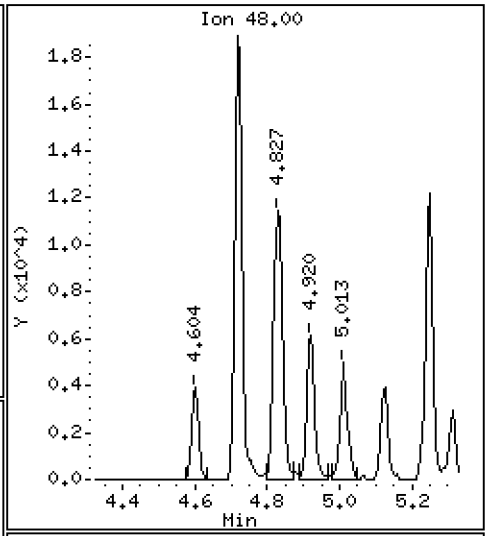
70 Chloroacetonitrile Concentration: 102.736 ug/L

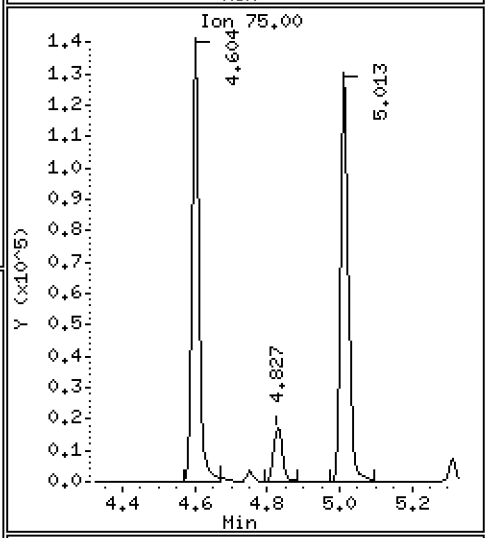


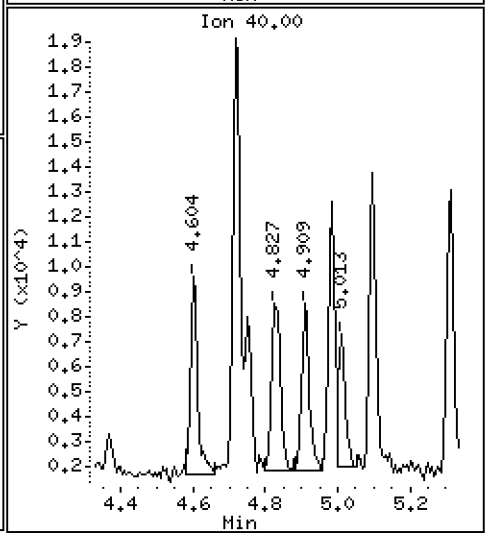












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 79

Date : 26-OCT-2016 07:52

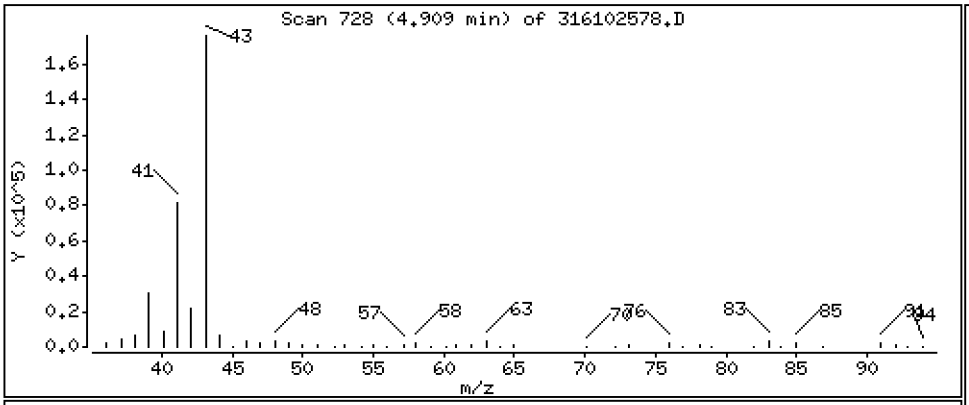
Client ID: 2184163001MSD Instrument: ms03.i

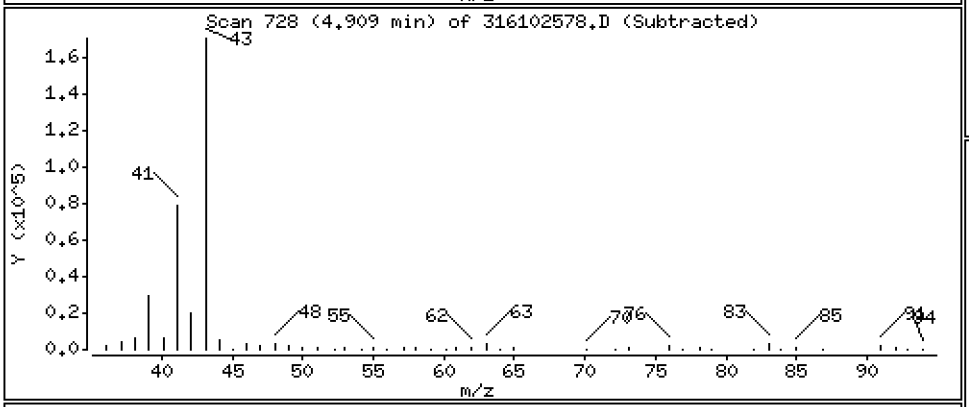
Sample Info: 2429374;;1;3;;MSD;1;

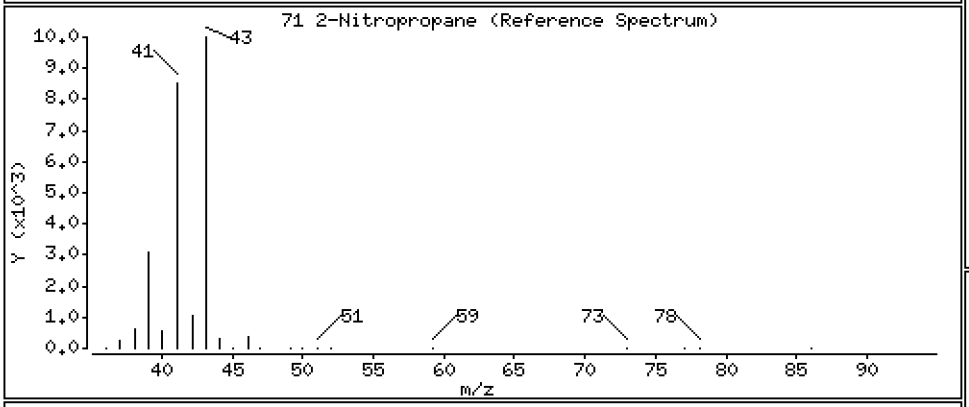
Purge Volume: 5.0 Operator: CJG

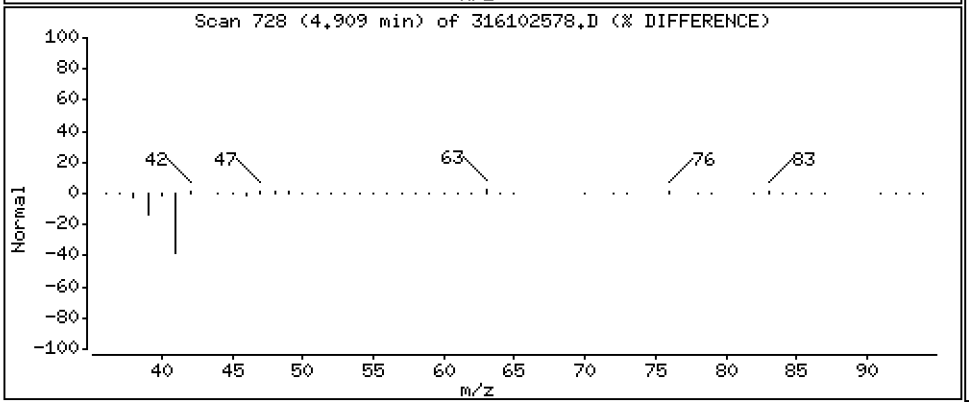
Column phase: DB-VRX Column diameter: 0.25

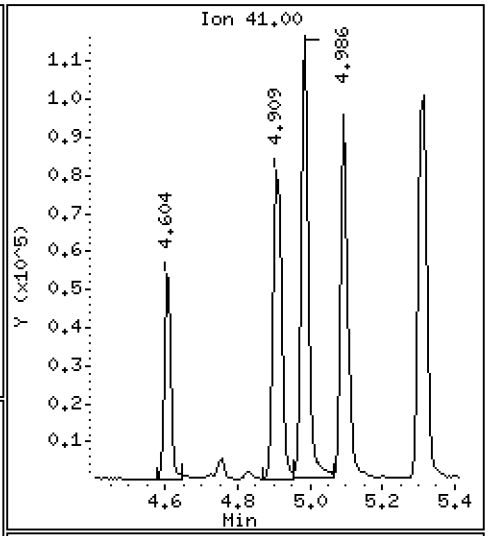
71 2-Nitropropane Concentration: 85.6972 ug/L

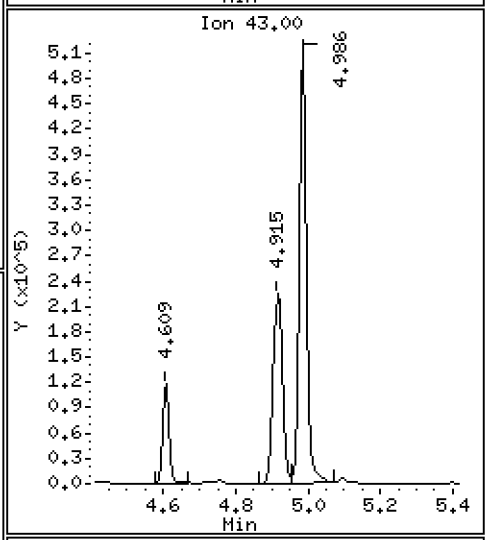


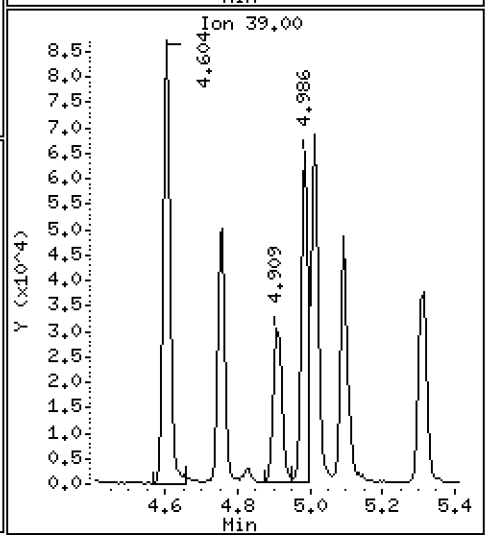












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 80

Date : 26-OCT-2016 07:52

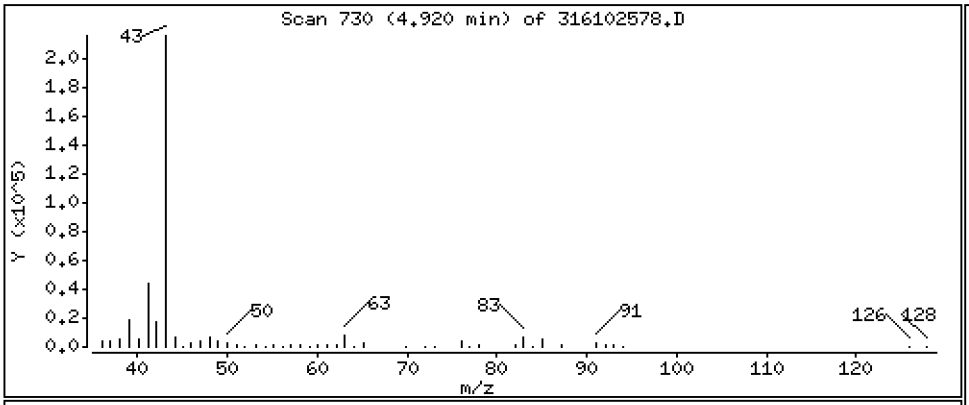
Client ID: 2184163001MSD Instrument: ms03.i

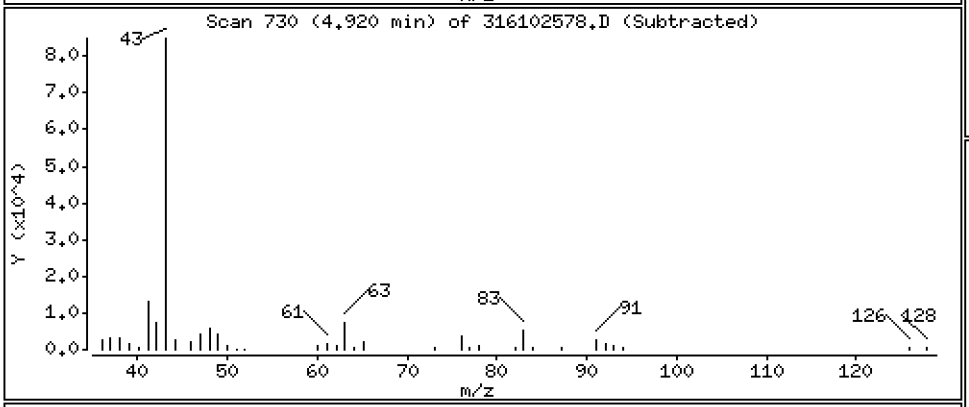
Sample Info: 2429374;;1;3;;MSD;1;

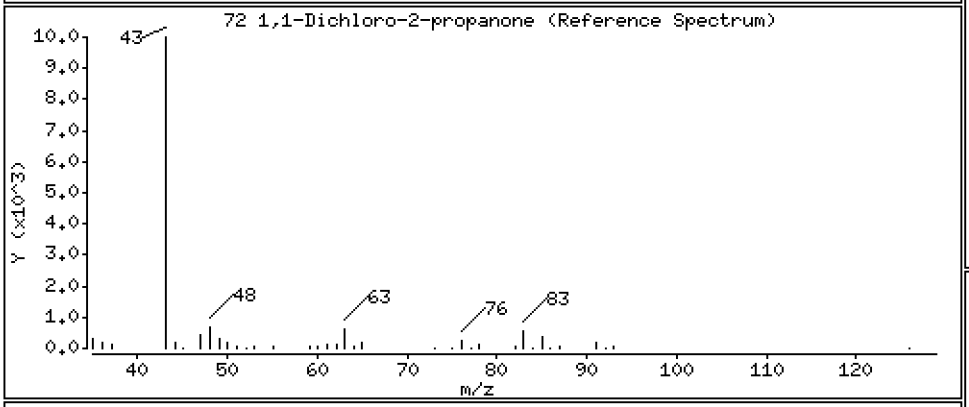
Purge Volume: 5.0 Operator: CJG

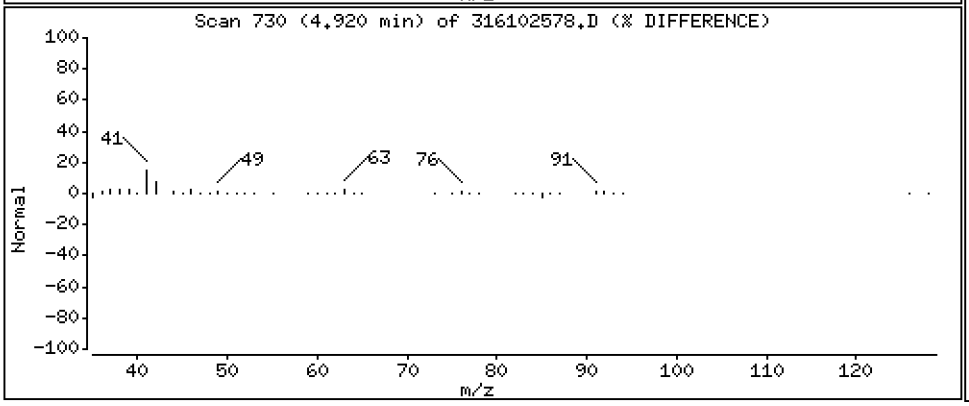
Column phase: DB-VRX Column diameter: 0.25

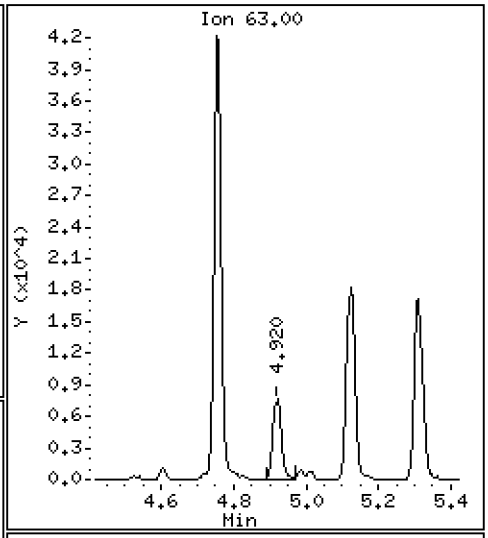
72 1,1-Dichloro-2-propanone Concentration: 86.7988 ug/L

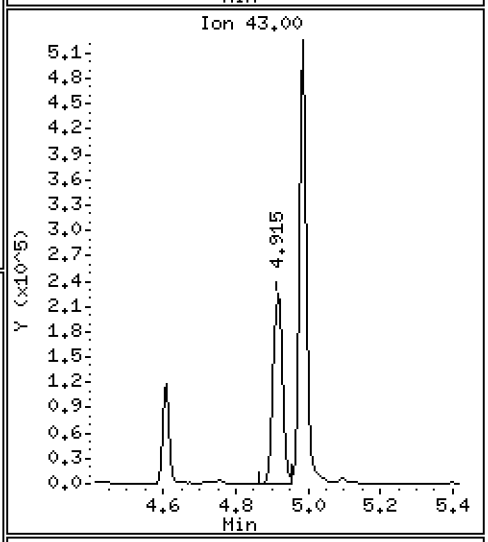


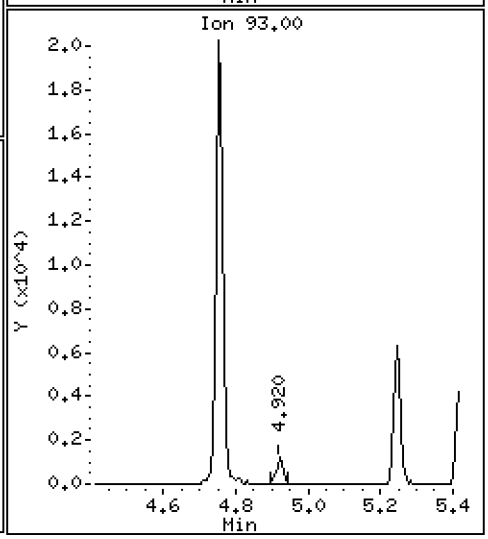












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 81

Date : 26-OCT-2016 07:52

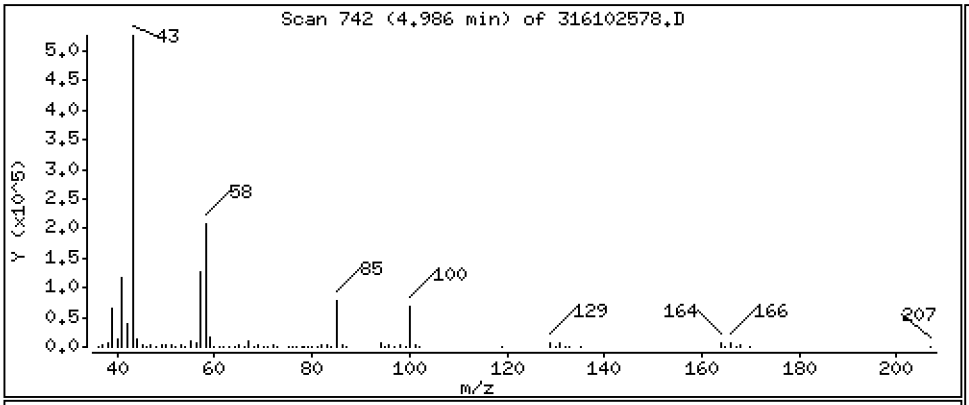
Client ID: 2184163001MSD Instrument: ms03.i

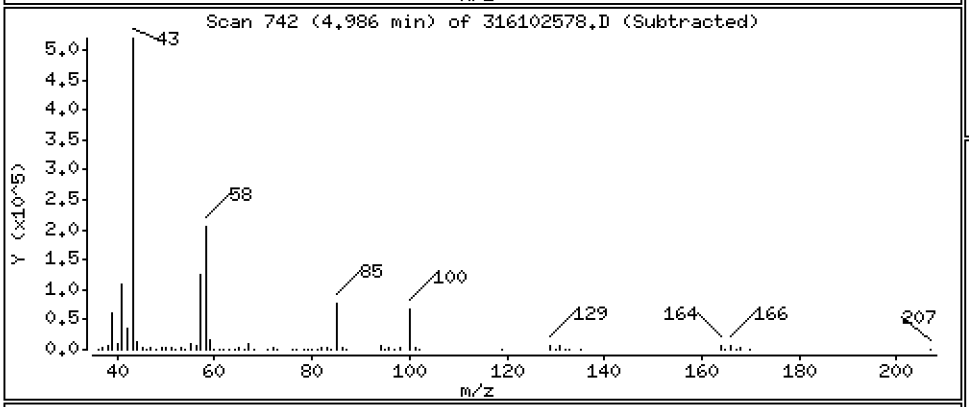
Sample Info: 2429374;;1;3;;MSD;1;

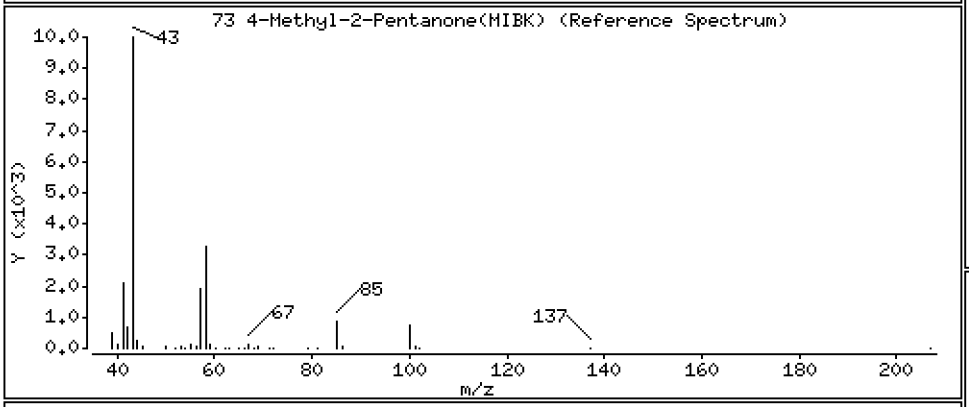
Purge Volume: 5.0 Operator: CJG

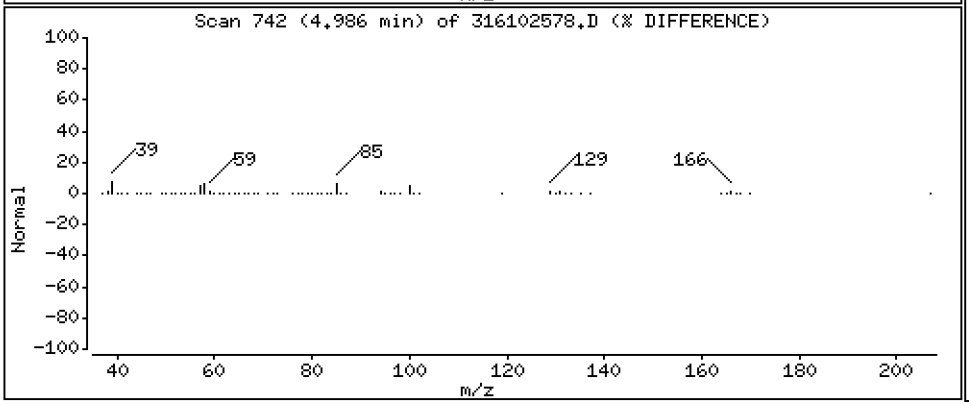
Column phase: DB-VRX Column diameter: 0.25

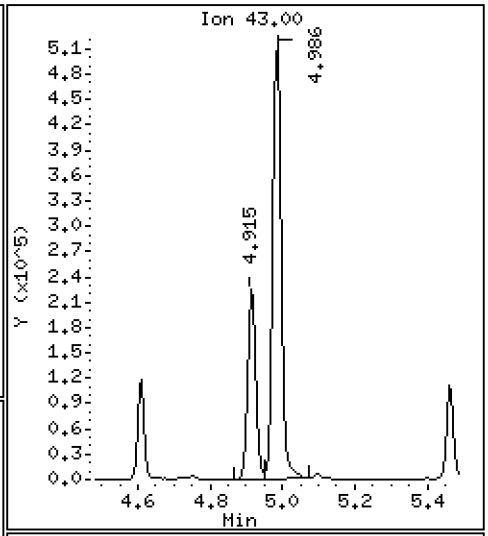
73 4-Methyl-2-Pentanone(MIBK) Concentration: 108.897 ug/L

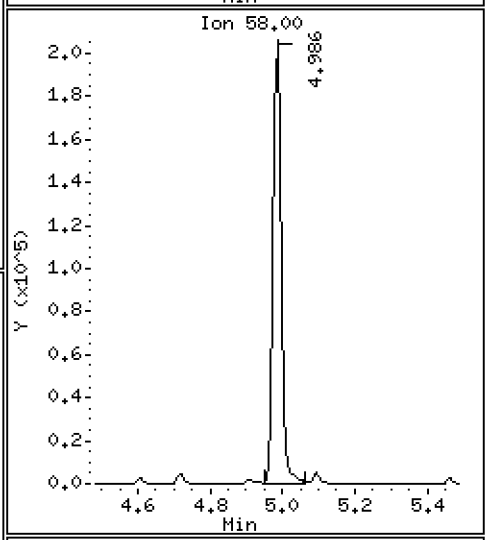


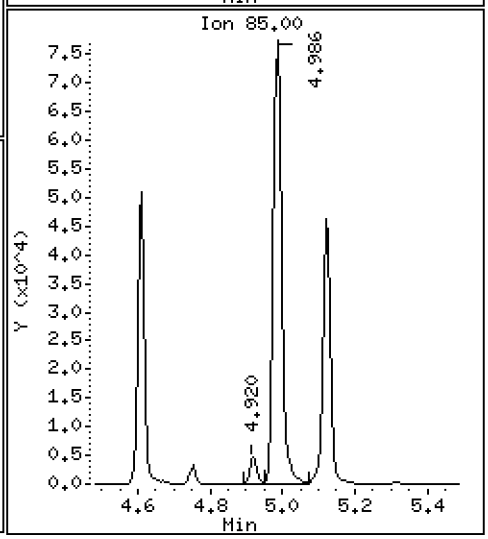












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 82

Date : 26-OCT-2016 07:52

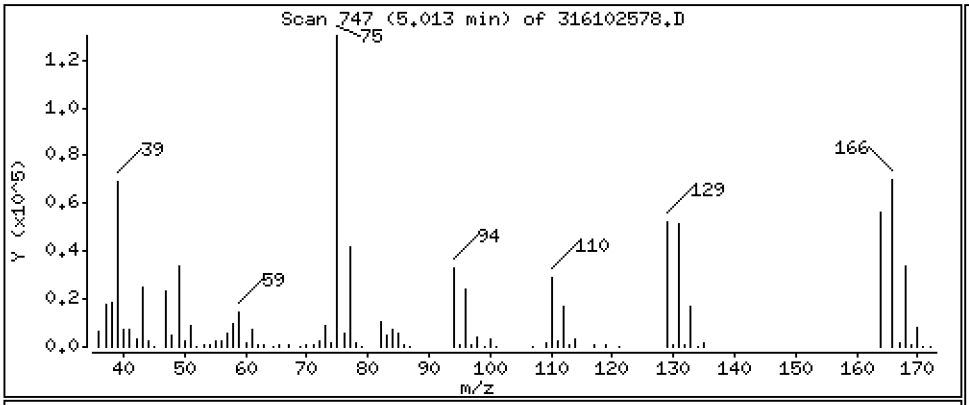
Client ID: 2184163001MSD Instrument: ms03.i

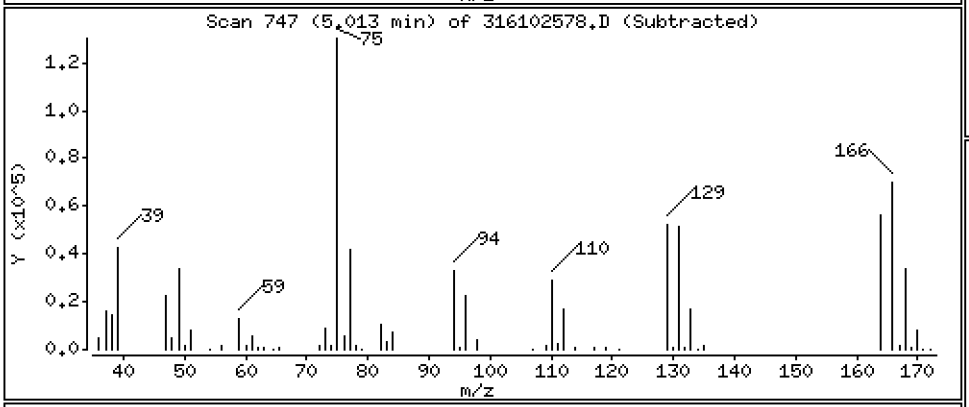
Sample Info: 2429374;;1;3;;MSD;1;

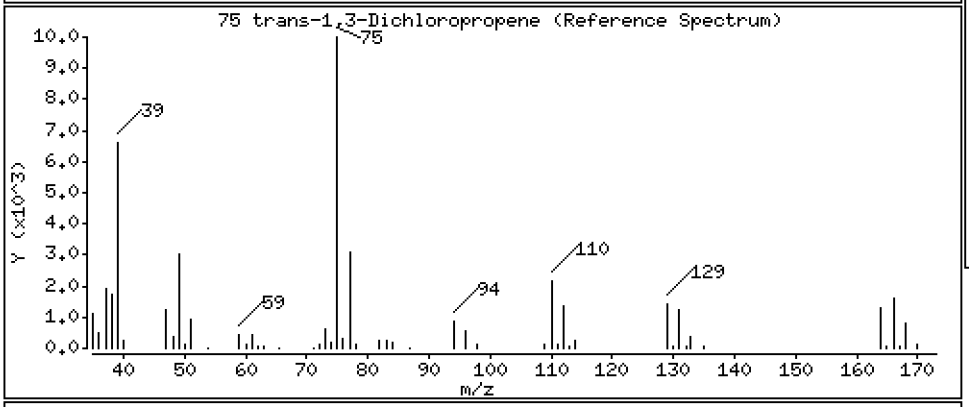
Purge Volume: 5.0 Operator: CJG

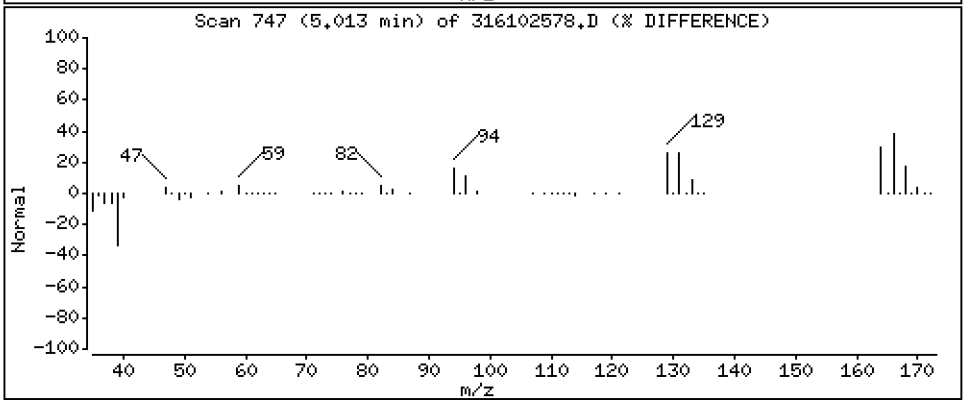
Column phase: DB-VRX Column diameter: 0.25

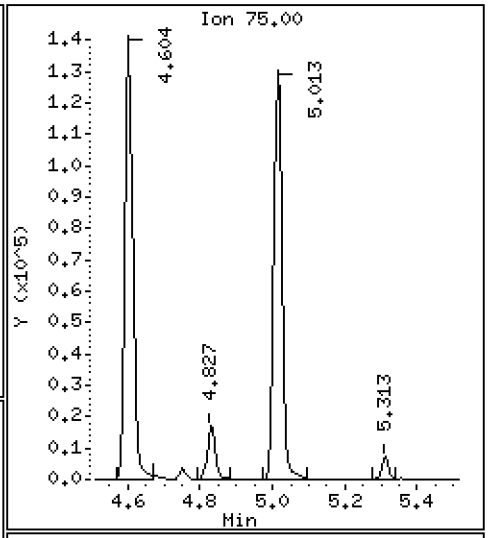
75 trans-1,3-Dichloropropene Concentration: 19.0760 ug/L

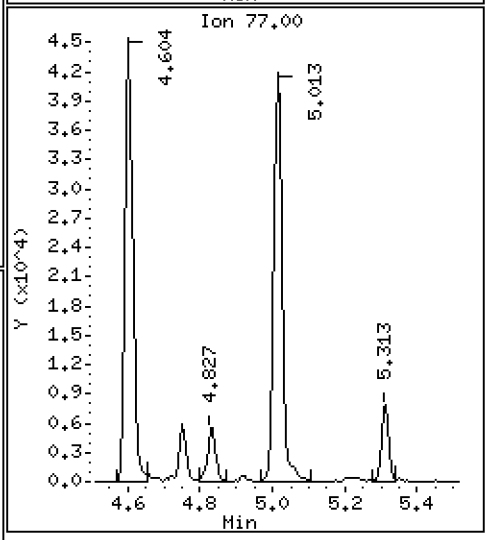












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 83

Date : 26-OCT-2016 07:52

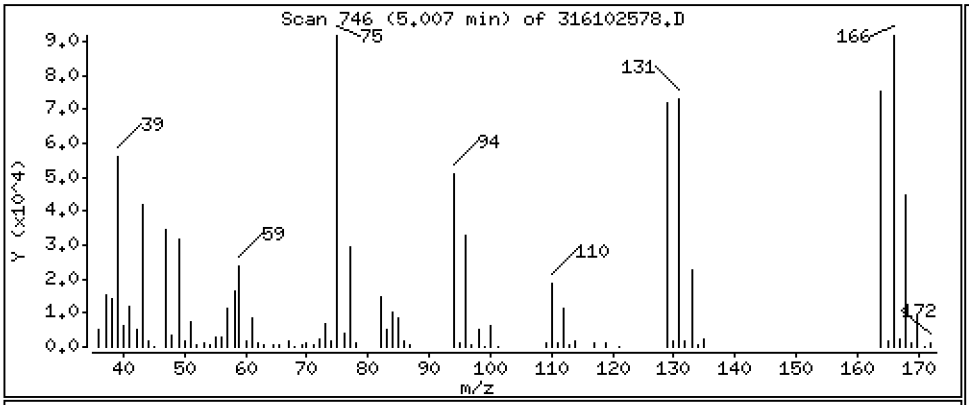
Client ID: 2184163001MSD Instrument: ms03.i

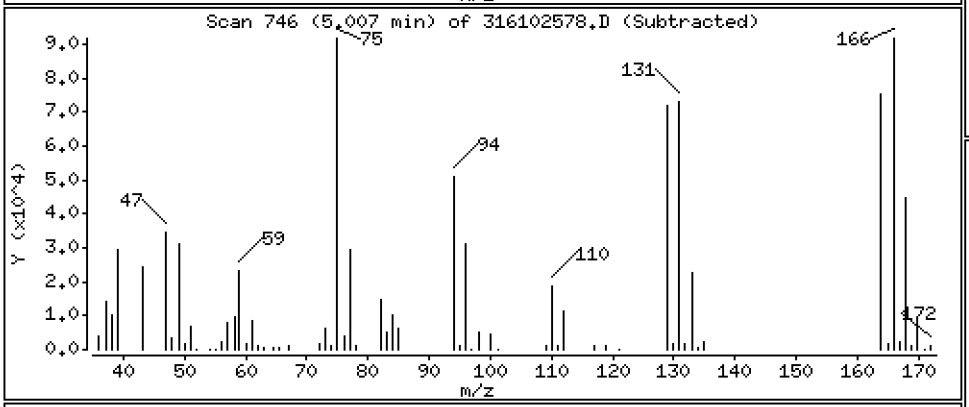
Sample Info: 2429374;;1;3;;MSD;1;

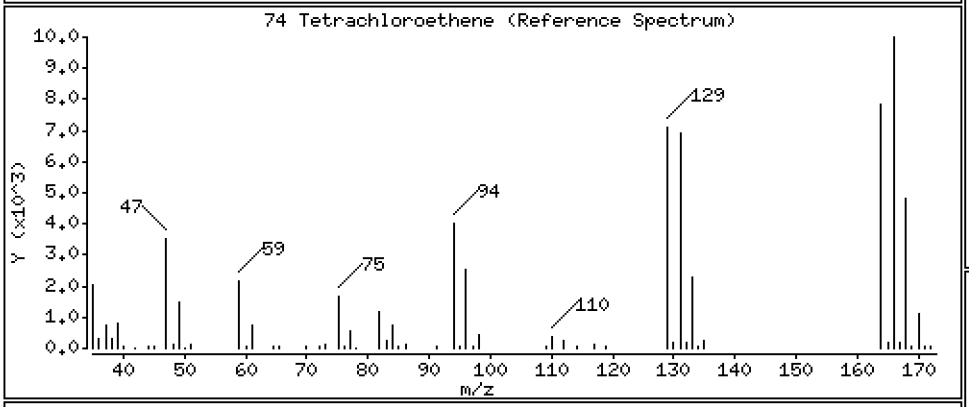
Purge Volume: 5.0 Operator: CJG

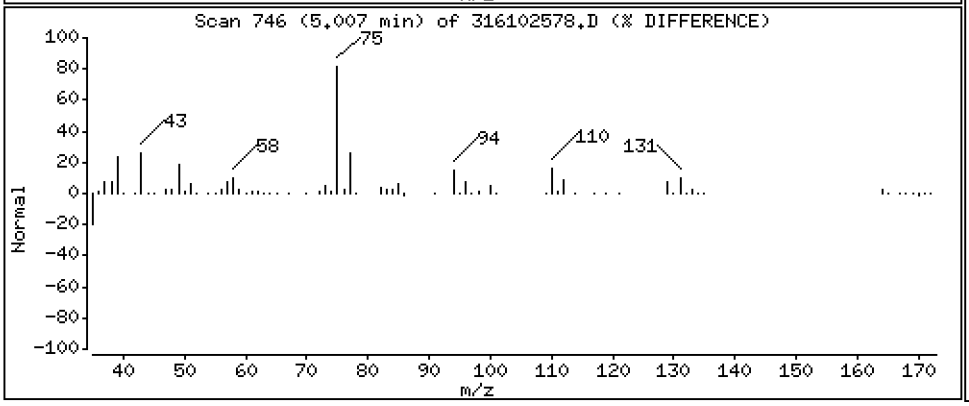
Column phase: DB-VRX Column diameter: 0.25

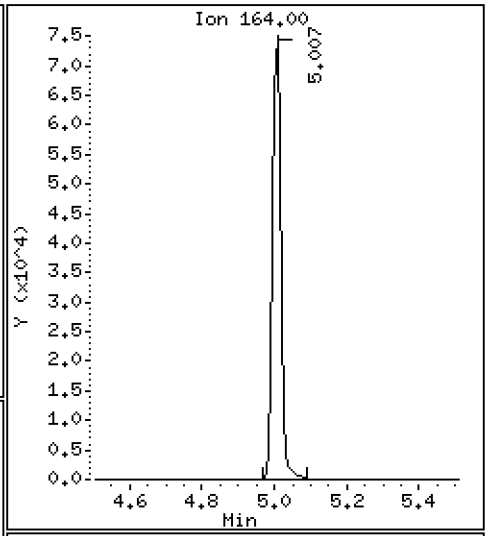
74 Tetrachloroethene Concentration: 22.5579 ug/L

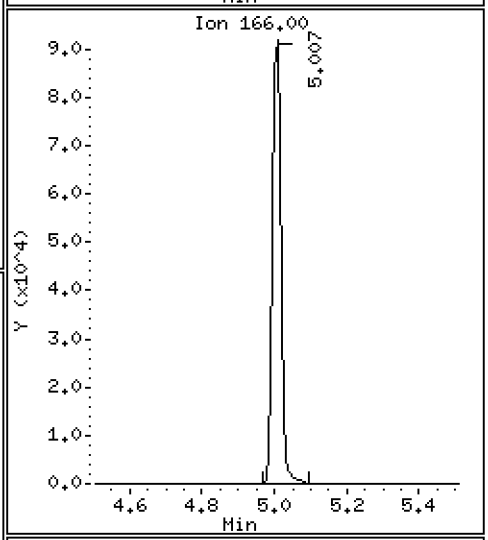


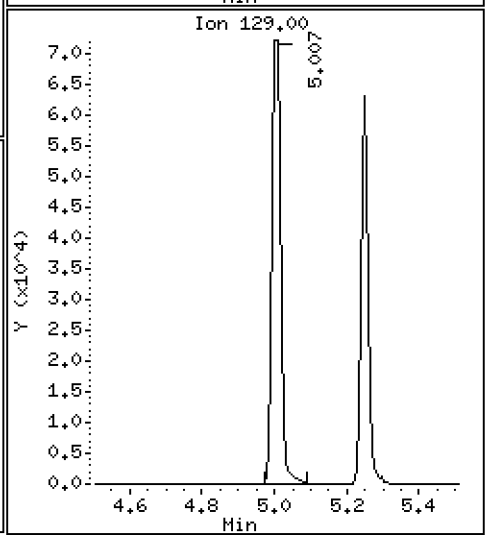












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 84

Date : 26-OCT-2016 07:52

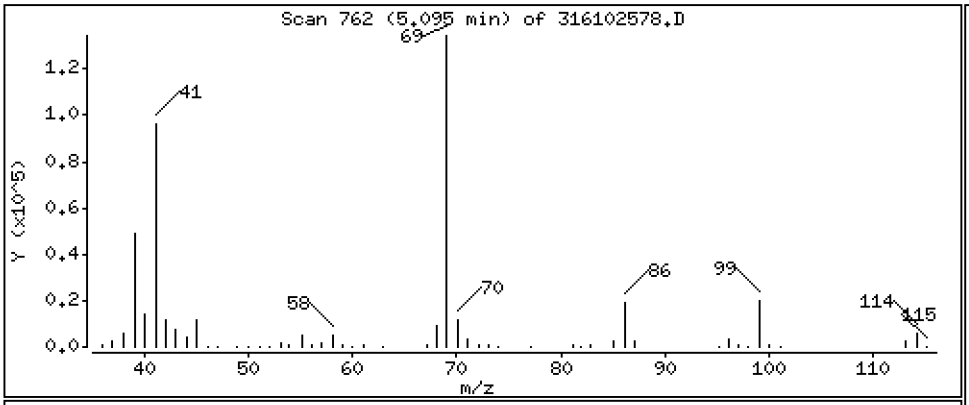
Client ID: 2184163001MSD Instrument: ms03.i

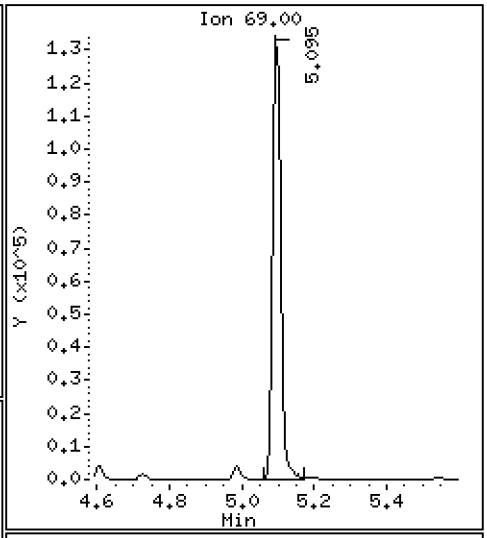
Sample Info: 2429374;;1;3;;MSD;1;

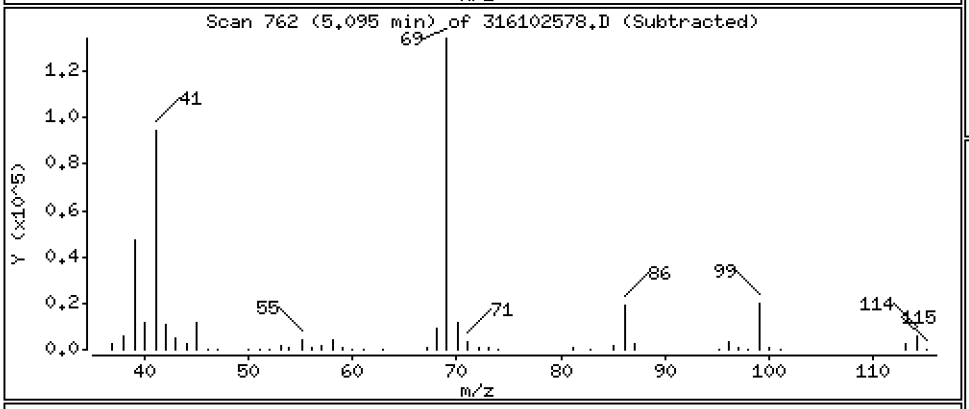
Purge Volume: 5.0 Operator: CJG

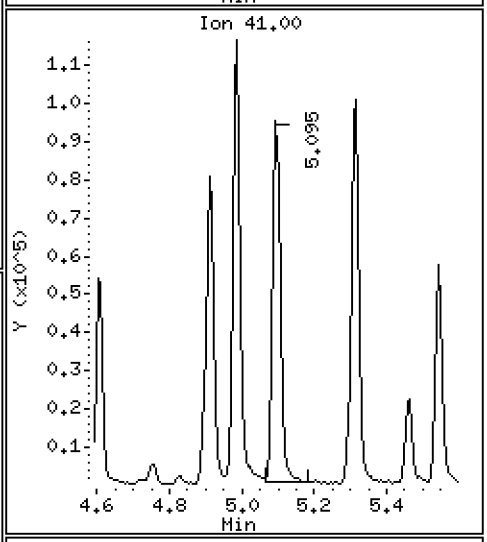
Column phase: DB-VRX Column diameter: 0.25

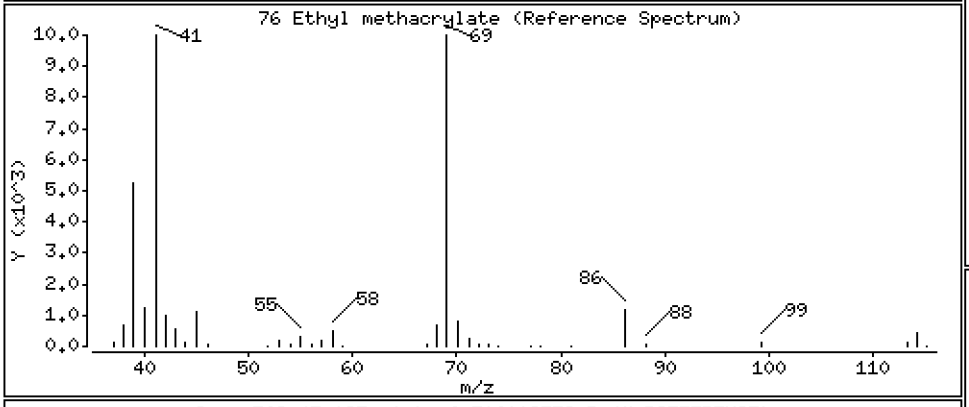
76 Ethyl methacrylate Concentration: 20.4322 ug/L

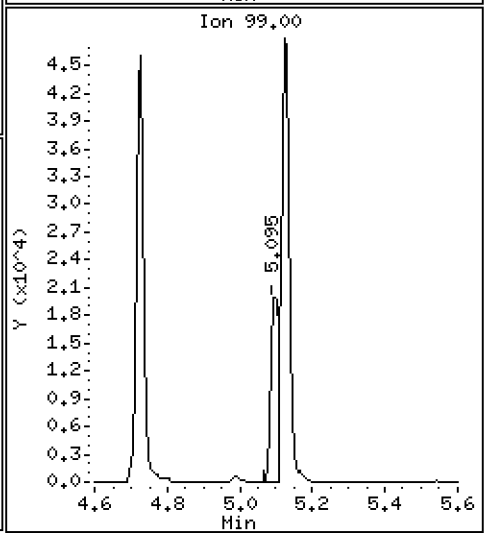


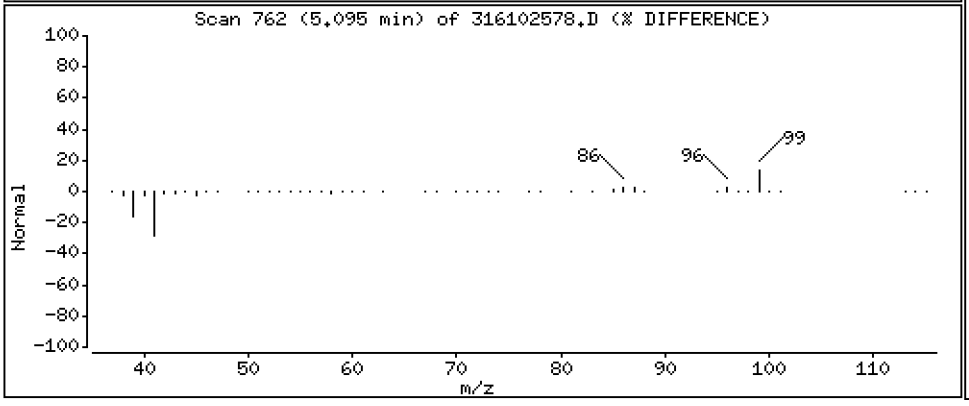












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 85

Date : 26-OCT-2016 07:52

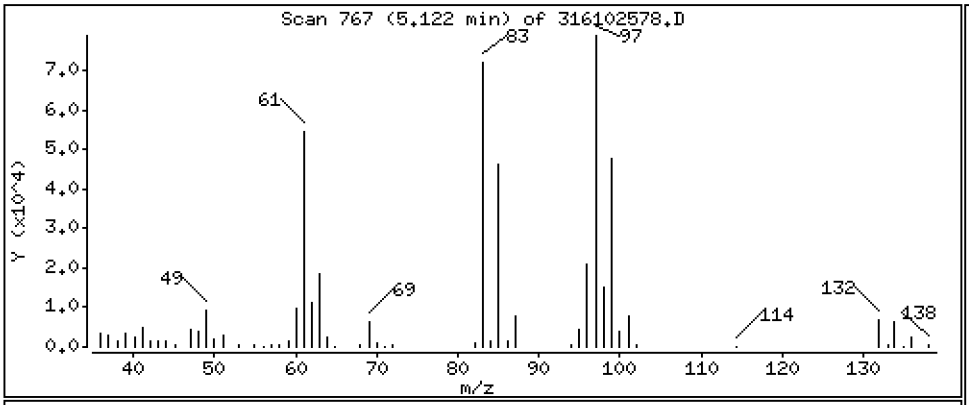
Client ID: 2184163001MSD Instrument: ms03.i

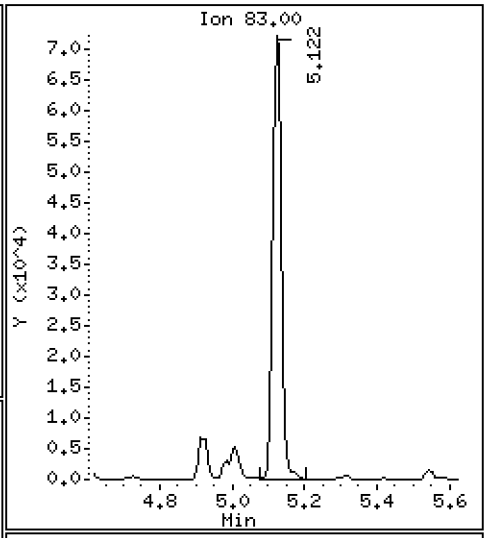
Sample Info: 2429374;;1;3;;MSD;1;

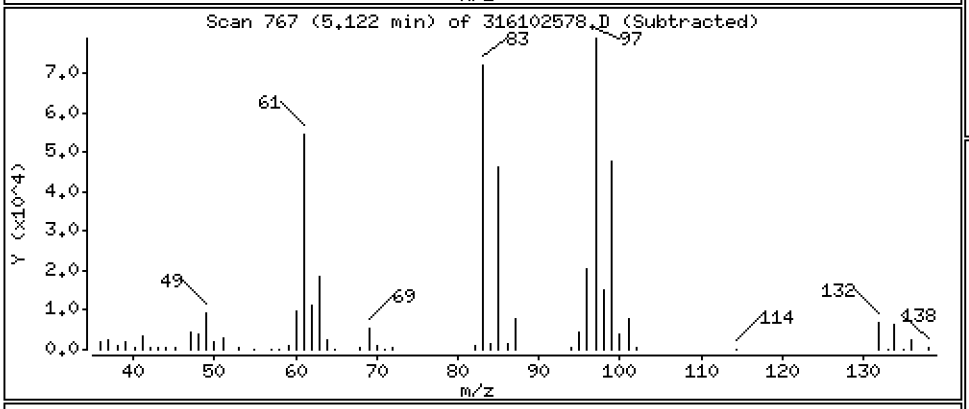
Purge Volume: 5.0 Operator: CJG

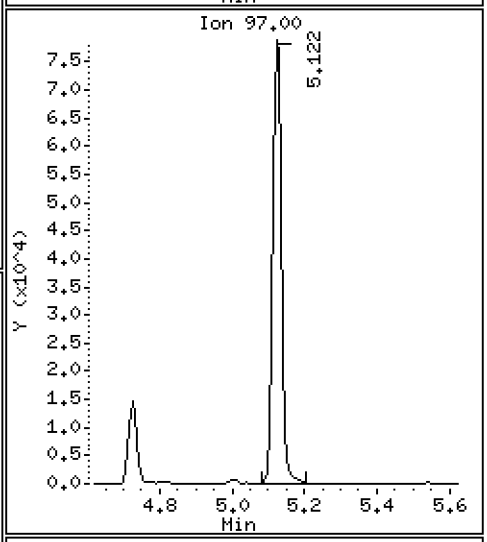
Column phase: DB-VRX Column diameter: 0.25

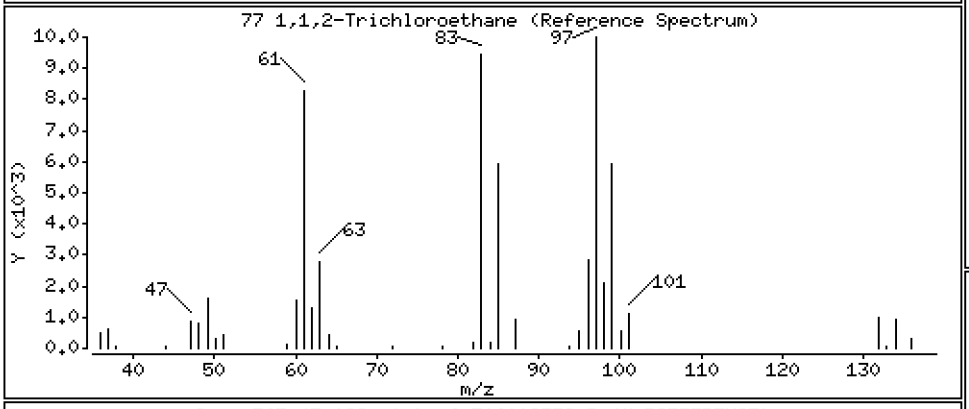
77 1,1,2-Trichloroethane Concentration: 18.7707 ug/L

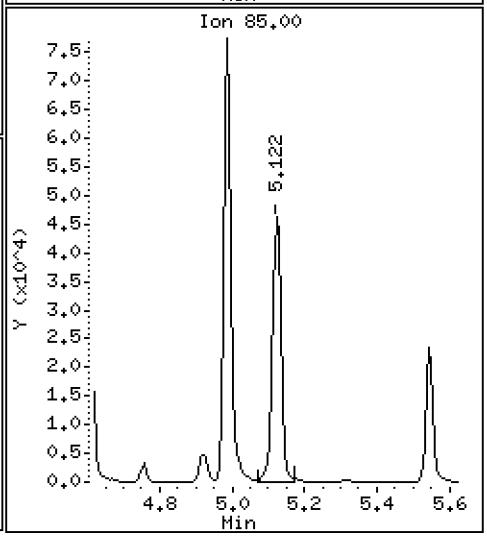


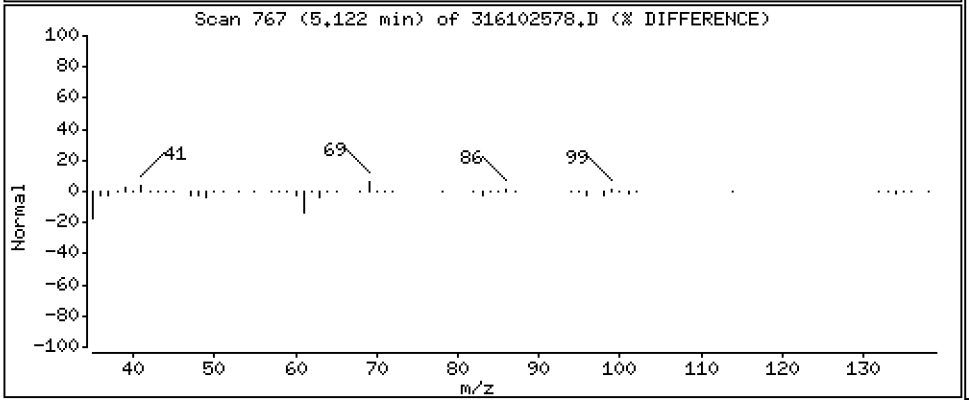












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 86

Date : 26-OCT-2016 07:52

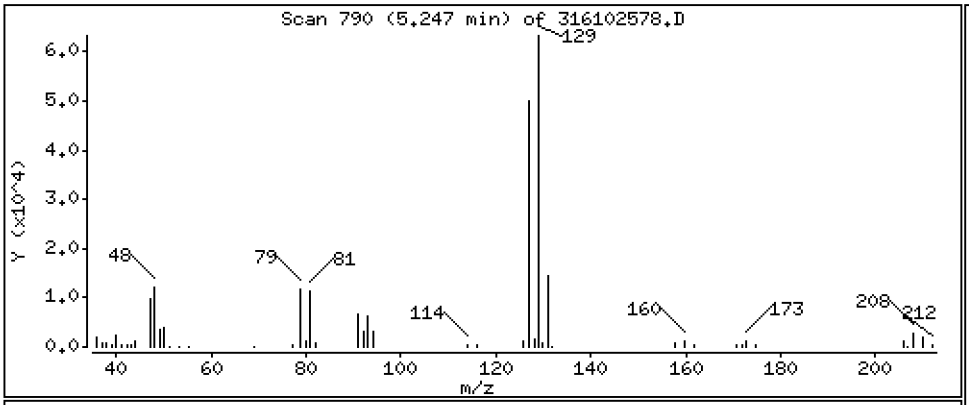
Client ID: 2184163001MSD Instrument: ms03.i

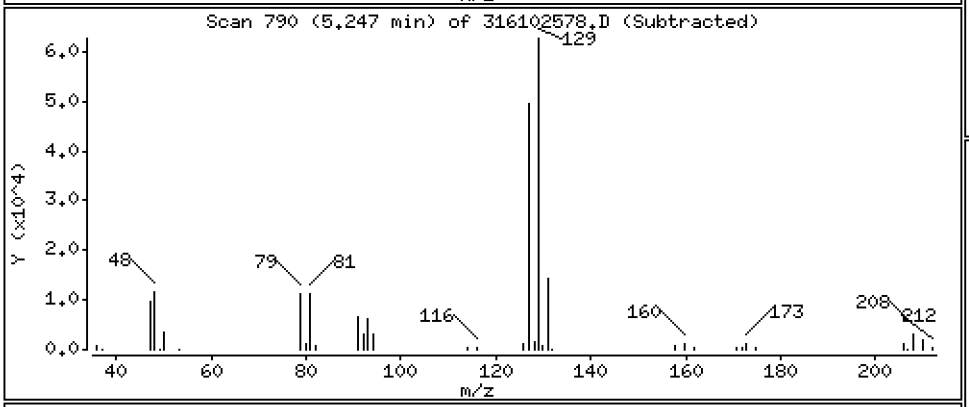
Sample Info: 2429374;;1;3;;MSD;1;

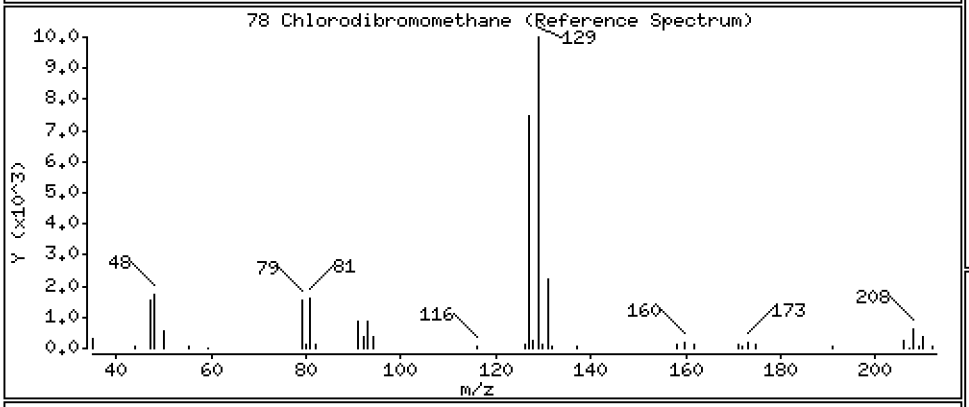
Purge Volume: 5.0 Operator: CJG

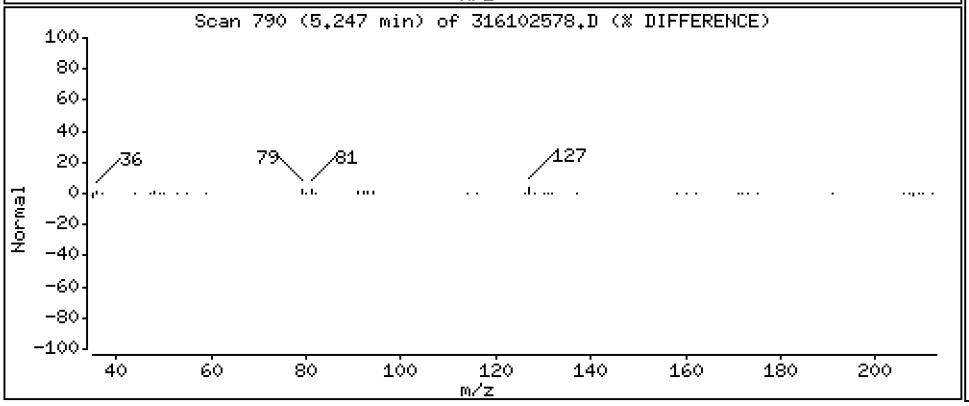
Column phase: DB-VRX Column diameter: 0.25

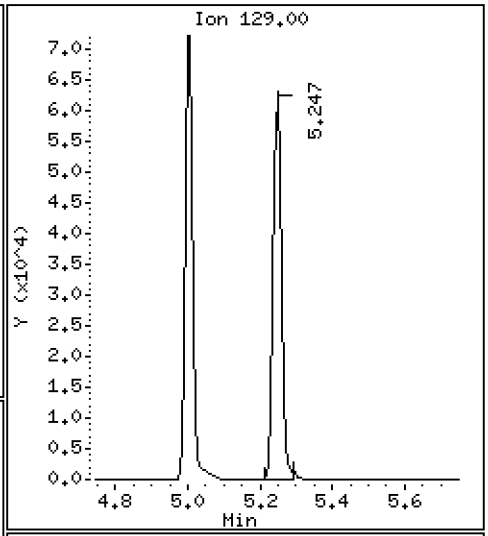
78 Chlorodibromomethane Concentration: 17.2853 ug/L

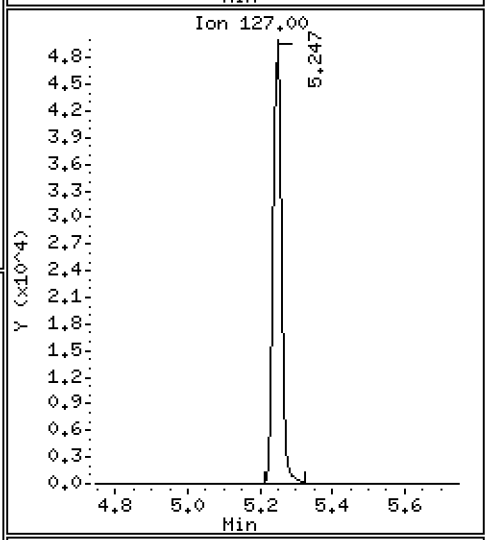


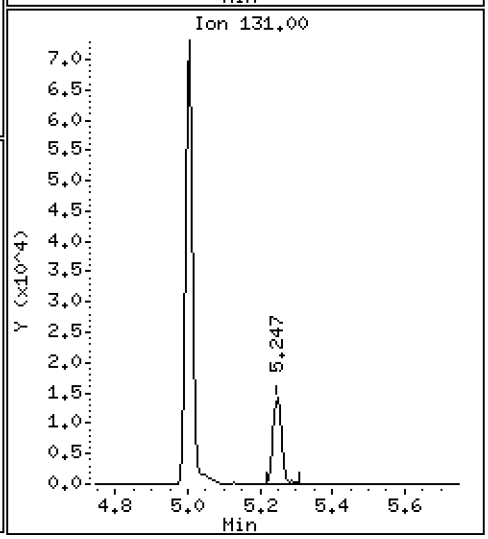












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 87

Date : 26-OCT-2016 07:52

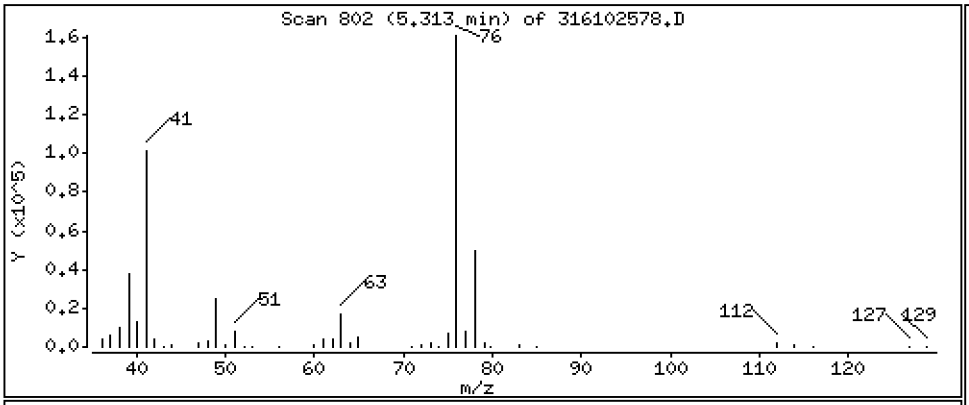
Client ID: 2184163001MSD Instrument: ms03.i

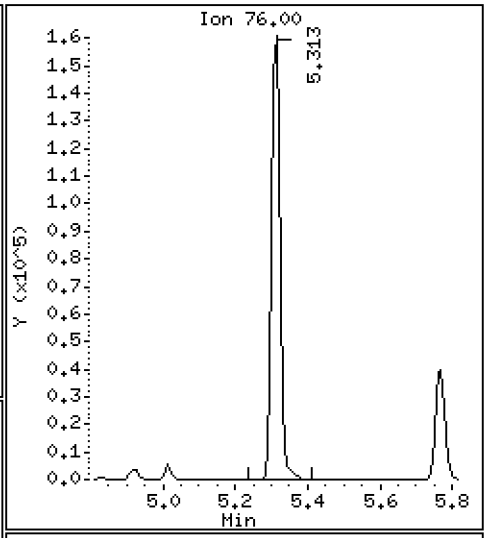
Sample Info: 2429374;;1;3;;MSD;1;

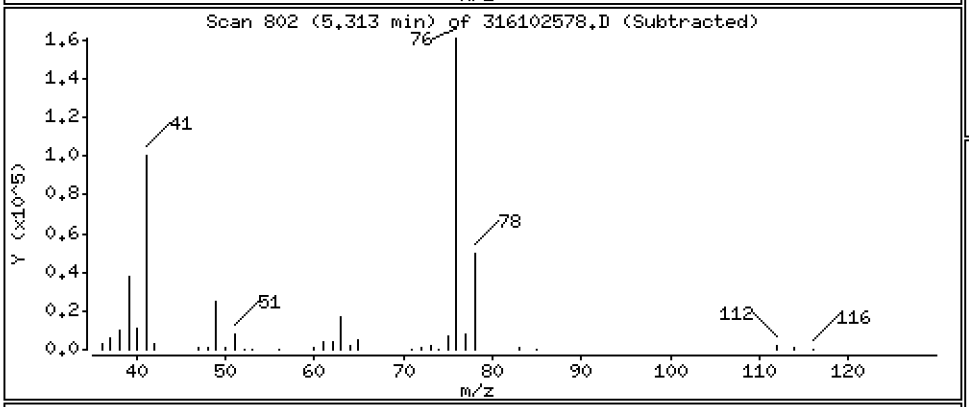
Purge Volume: 5.0 Operator: CJG

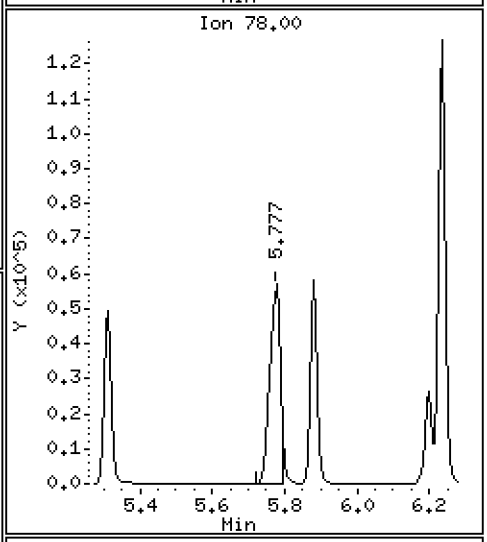
Column phase: DB-VRX Column diameter: 0.25

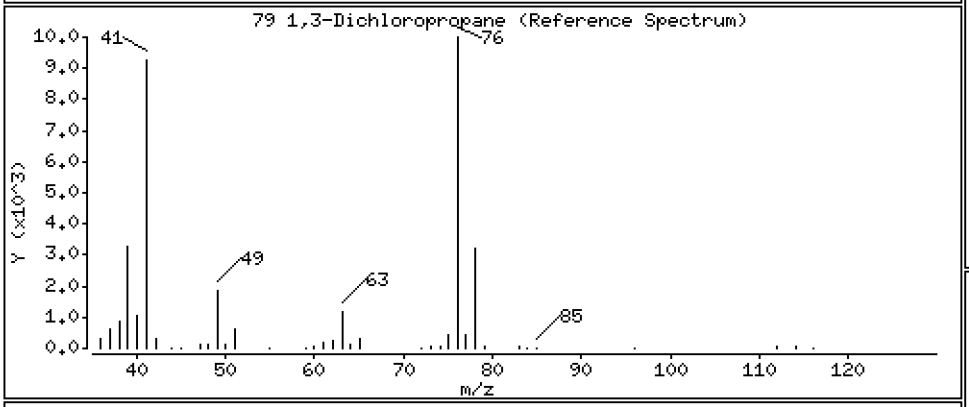
79 1,3-Dichloropropane Concentration: 18.7730 ug/L

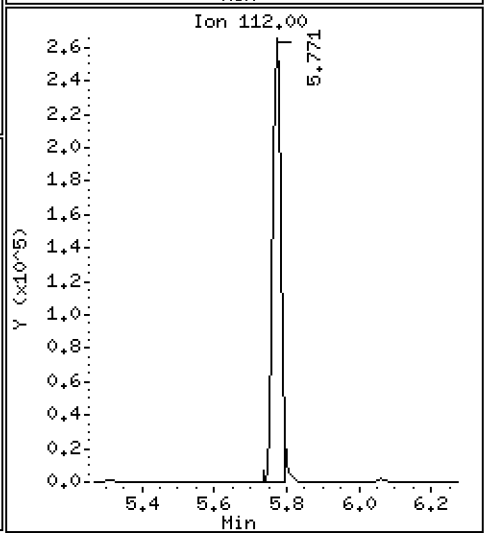


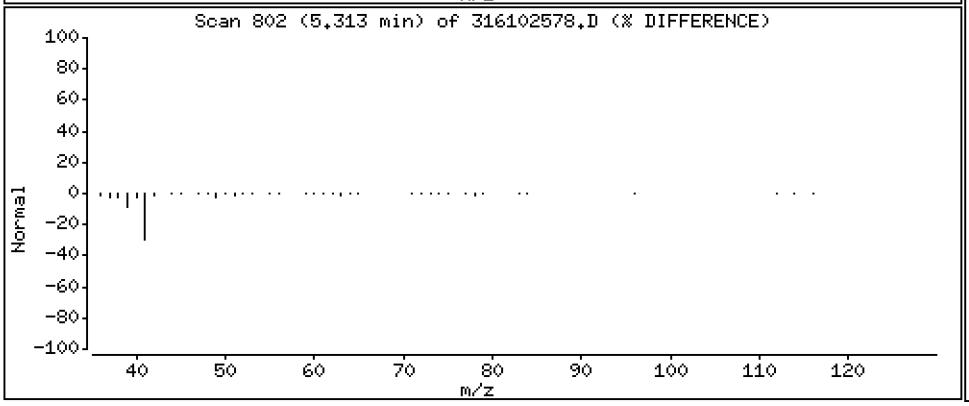












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 88

Date : 26-OCT-2016 07:52

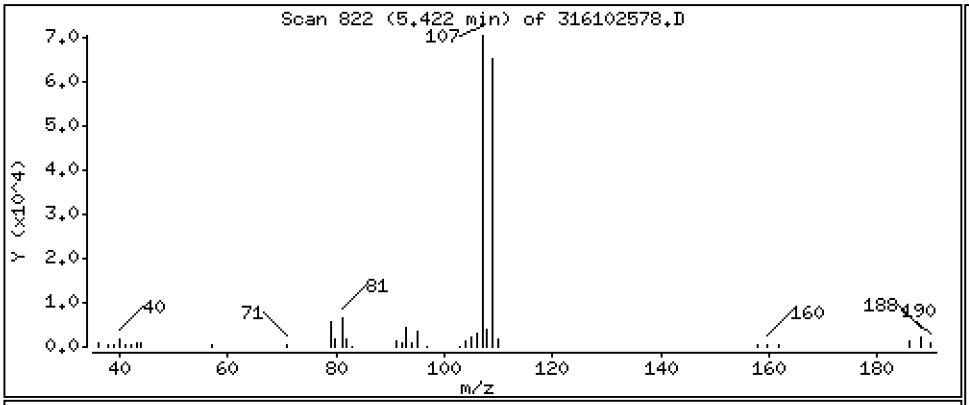
Client ID: 2184163001MSD Instrument: ms03.i

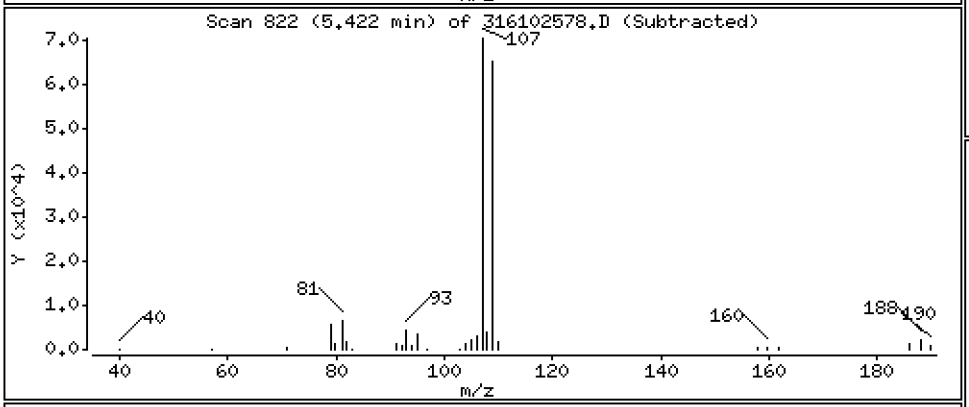
Sample Info: 2429374;;1;3;;MSD;1;

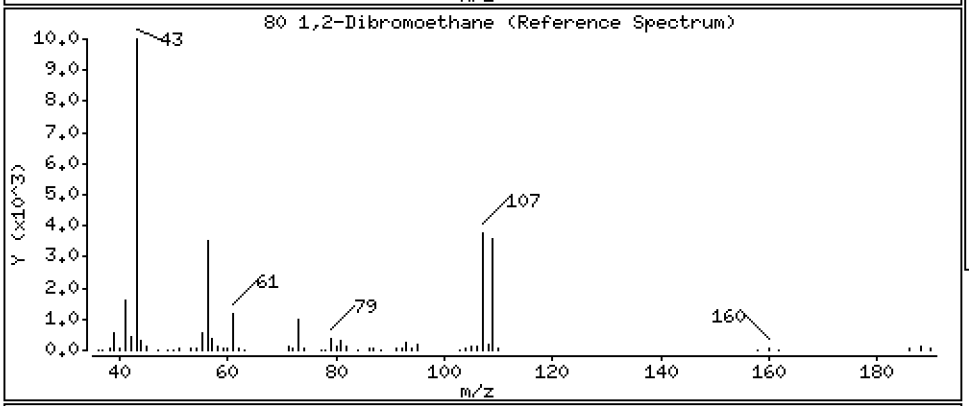
Purge Volume: 5.0 Operator: CJG

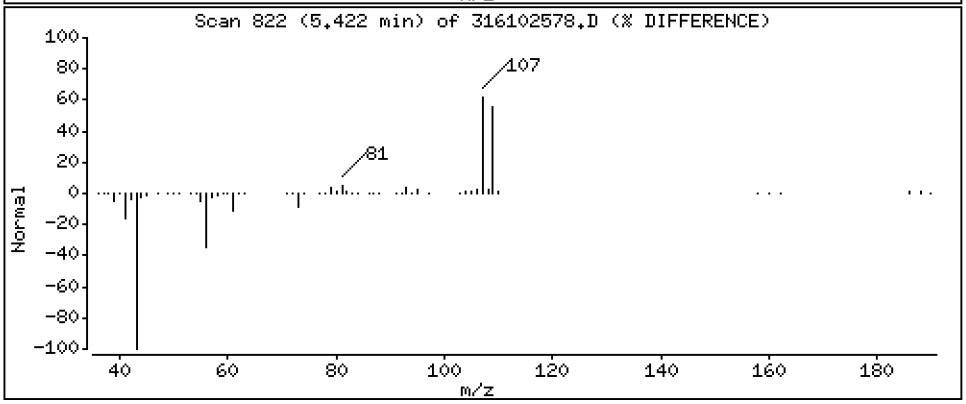
Column phase: DB-VRX Column diameter: 0.25

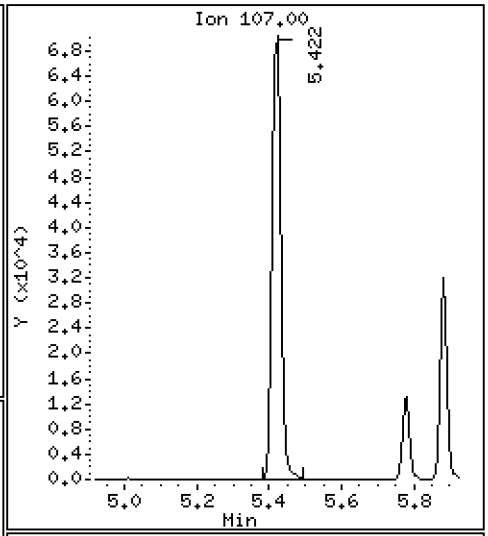
80 1,2-Dibromoethane Concentration: 18.5067 ug/L

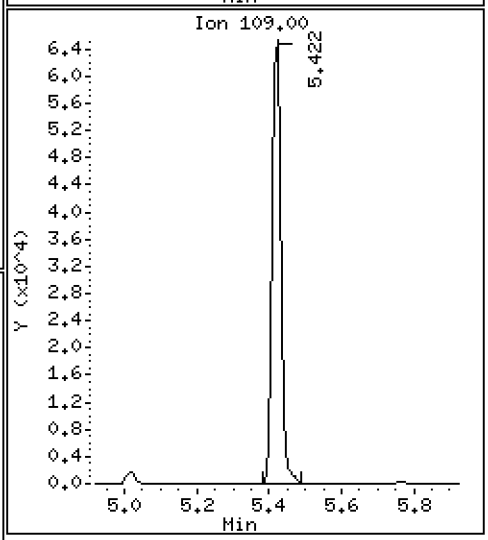












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 89

Date : 26-OCT-2016 07:52

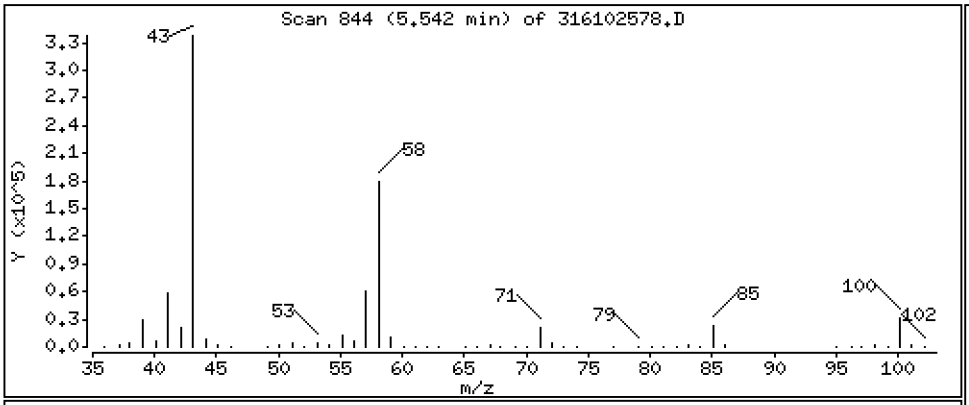
Client ID: 2184163001MSD Instrument: ms03.i

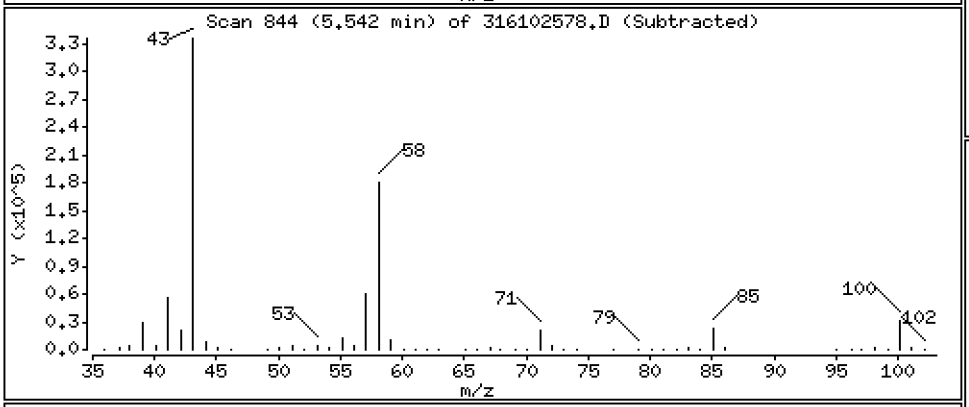
Sample Info: 2429374;;1;3;;MSD;1;

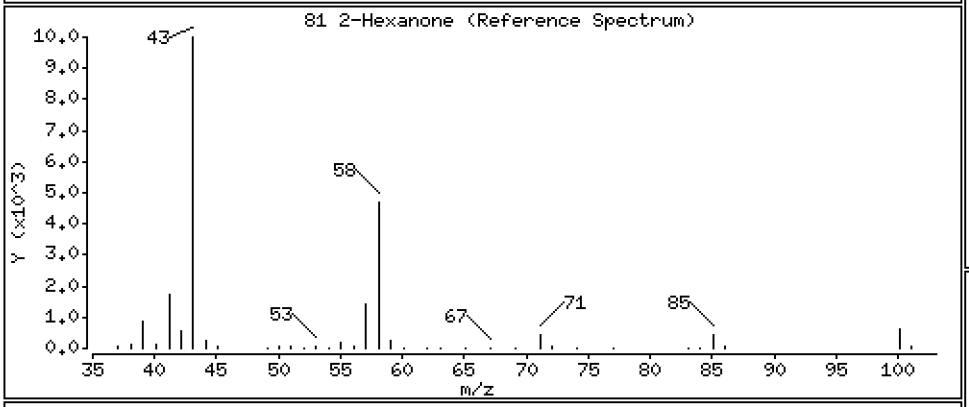
Purge Volume: 5.0 Operator: CJG

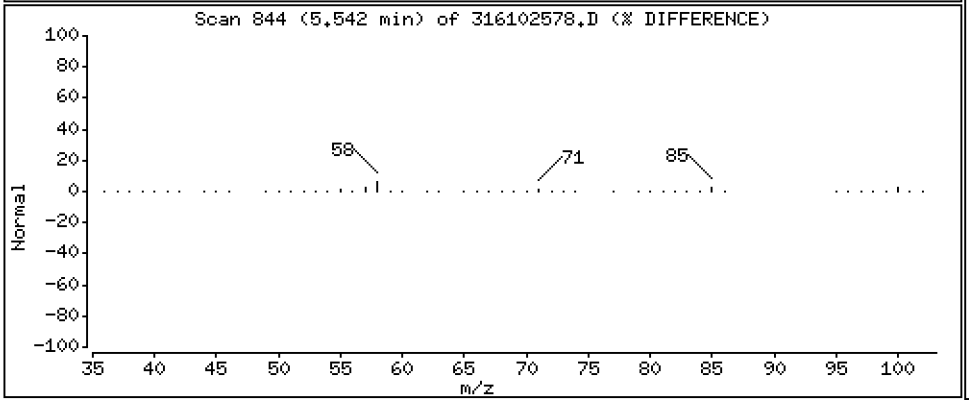
Column phase: DB-VRX Column diameter: 0.25

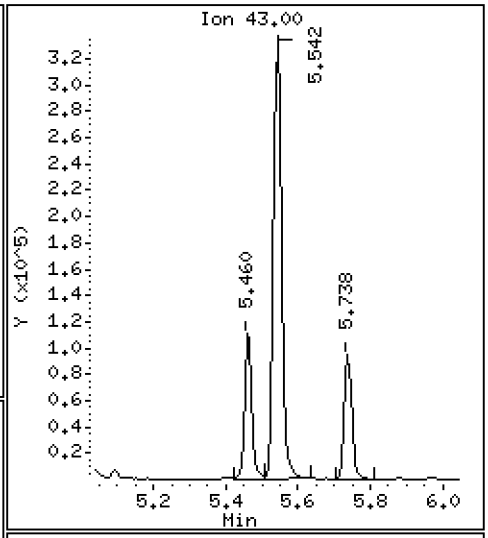
81 2-Hexanone Concentration: 108.171 ug/L

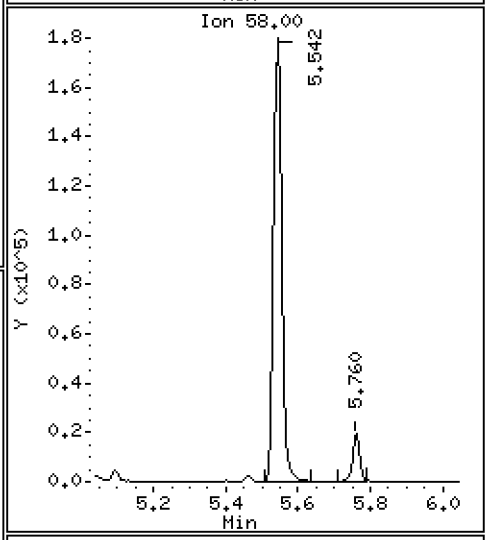


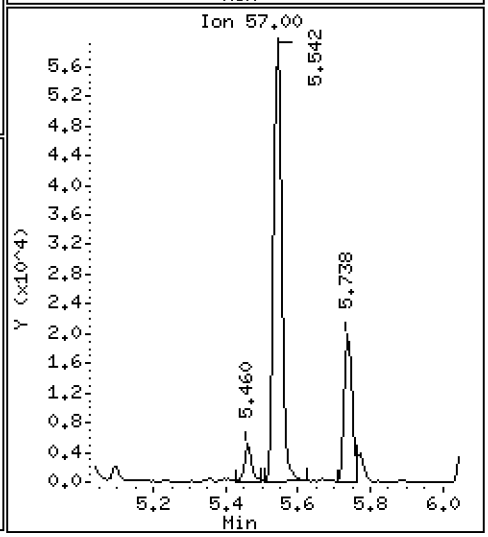












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 90

Date : 26-OCT-2016 07:52

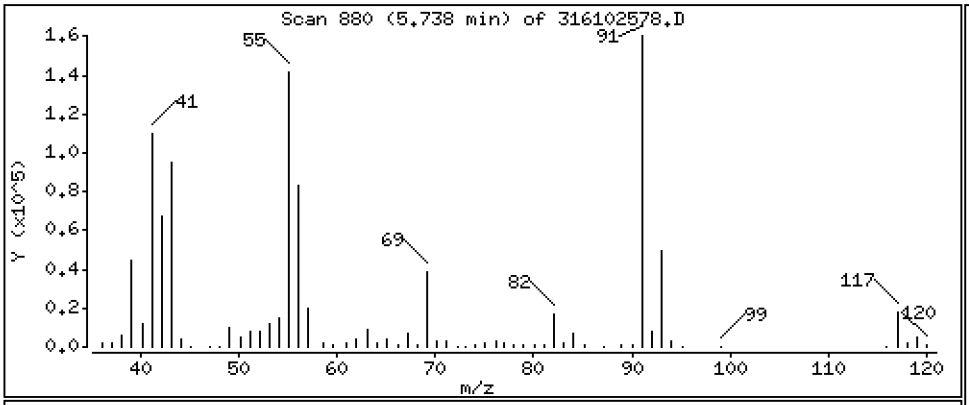
Client ID: 2184163001MSD Instrument: ms03.i

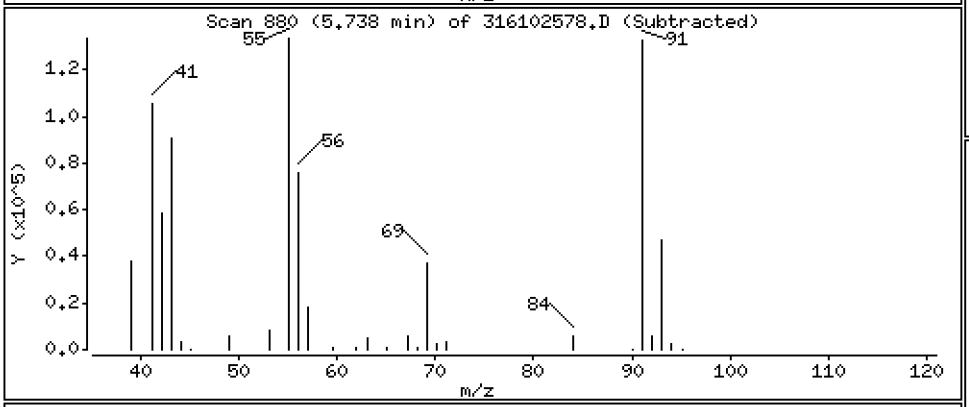
Sample Info: 2429374;;1;3;;MSD;1;

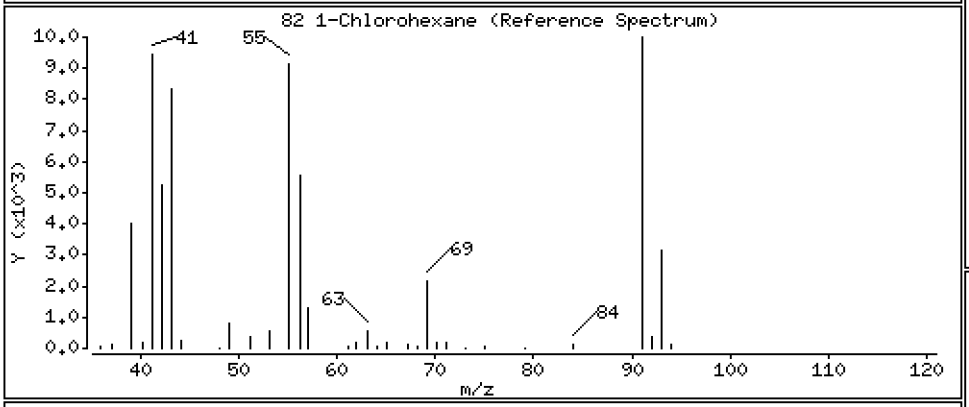
Purge Volume: 5.0 Operator: CJG

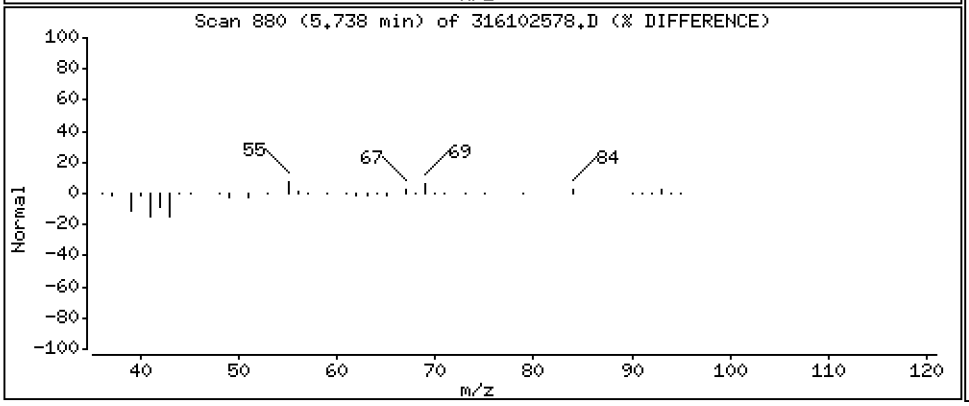
Column phase: DB-VRX Column diameter: 0.25

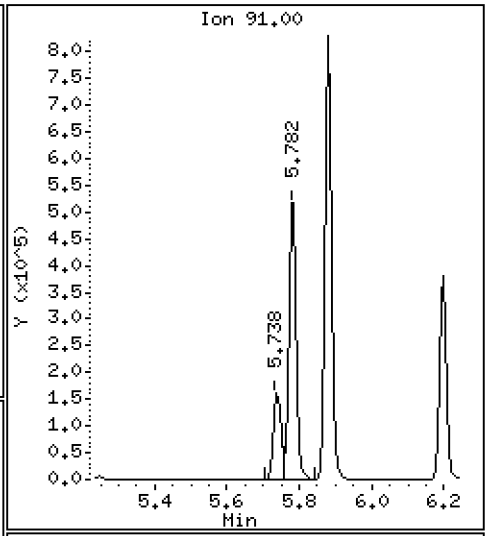
82 1-Chlorohexane Concentration: 20.3263 ug/L

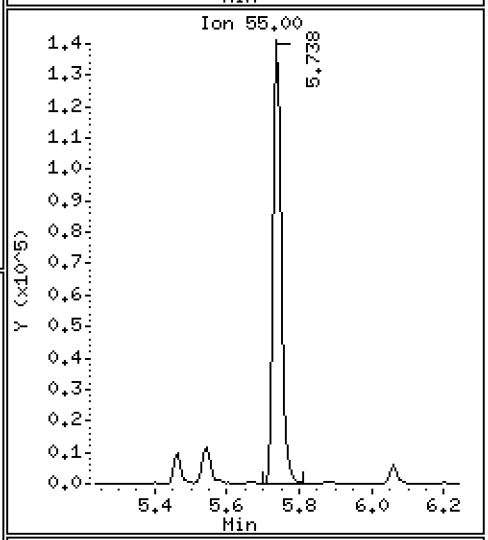


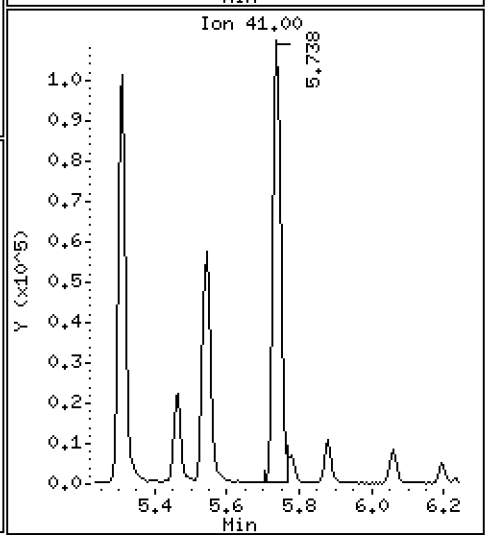












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 91

Date : 26-OCT-2016 07:52

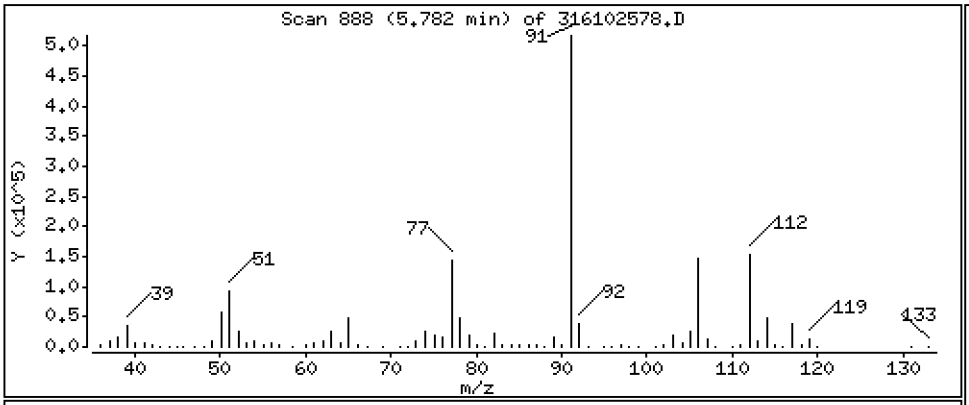
Client ID: 2184163001MSD Instrument: ms03.i

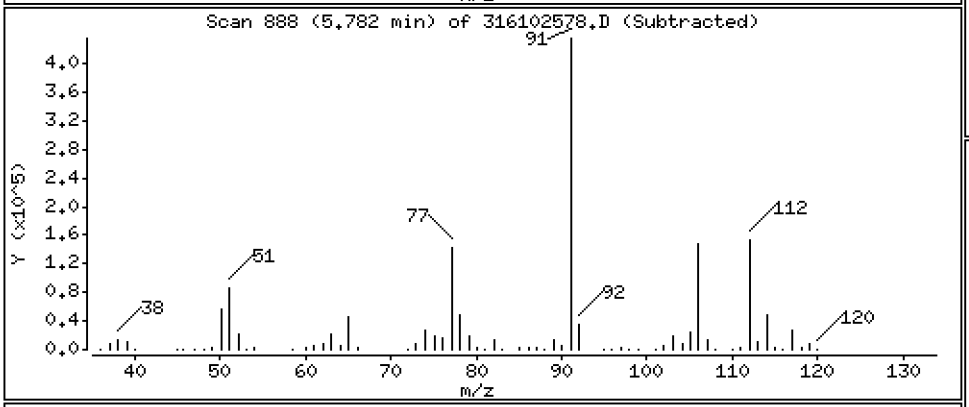
Sample Info: 2429374;;1;3;;MSD;1;

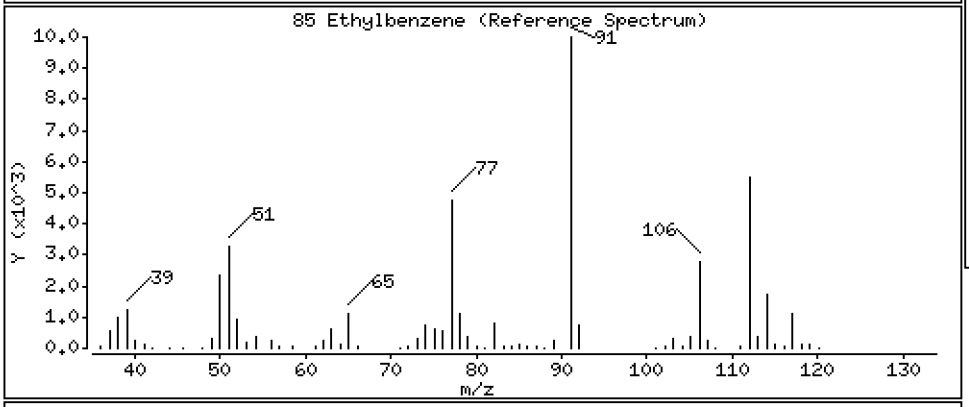
Purge Volume: 5.0 Operator: CJG

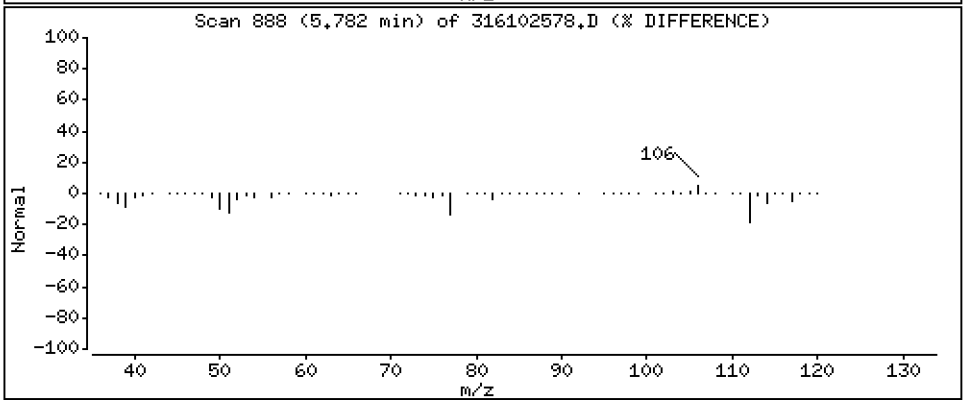
Column phase: DB-VRX Column diameter: 0.25

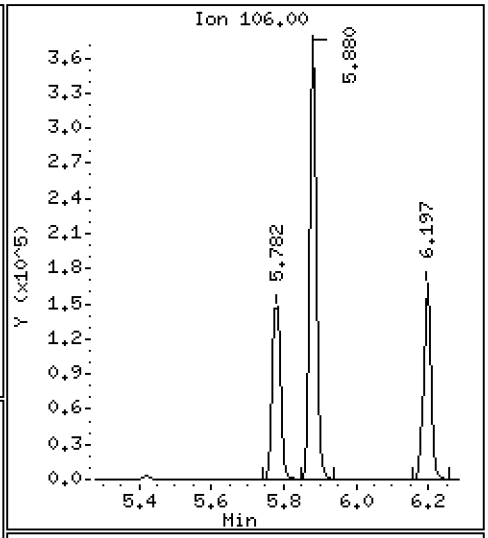
85 Ethylbenzene Concentration: 18.6906 ug/L

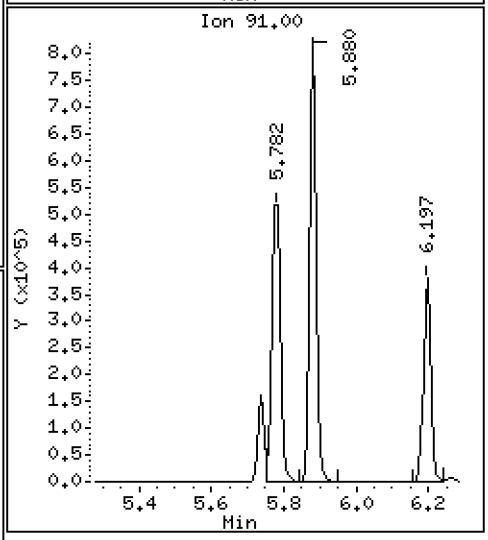












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 92

Date : 26-OCT-2016 07:52

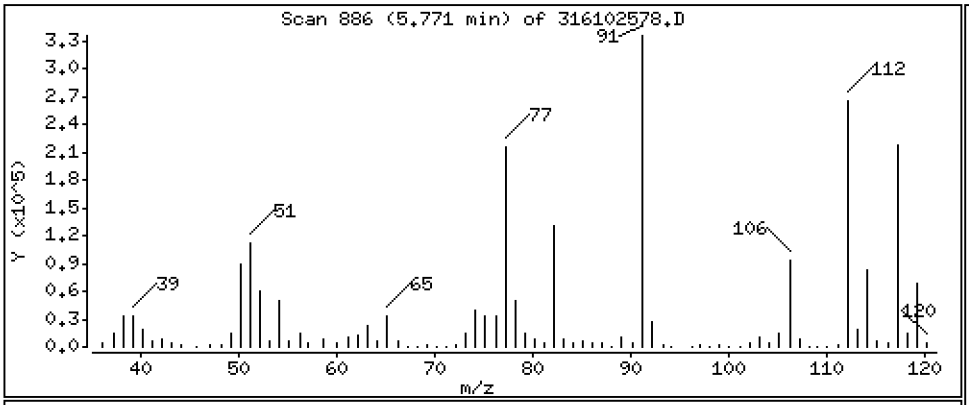
Client ID: 2184163001MSD Instrument: ms03.i

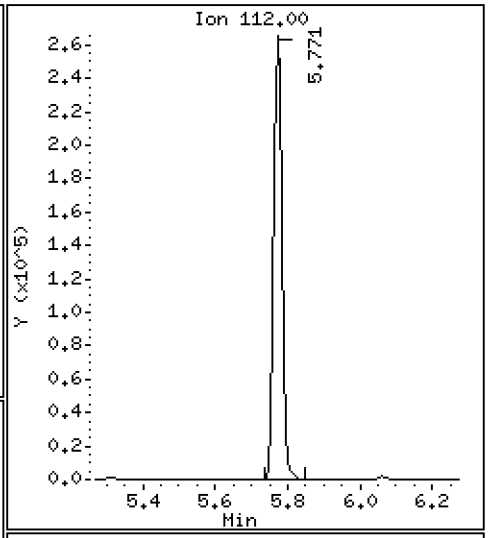
Sample Info: 2429374;;1;3;;MSD;1;

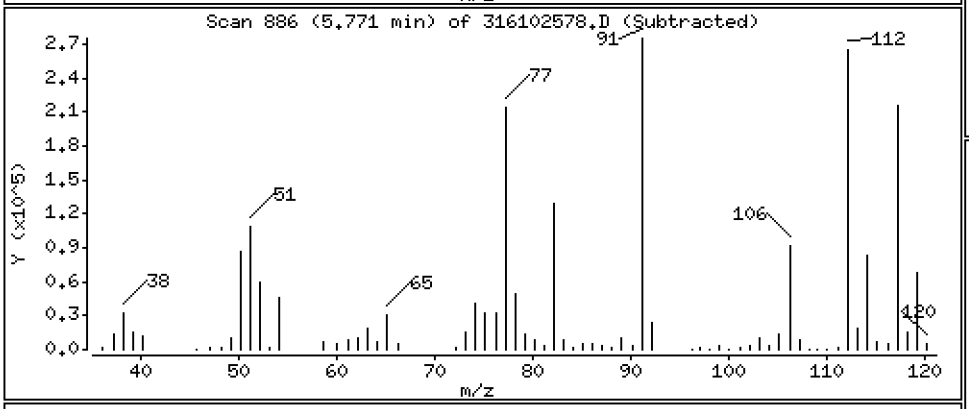
Purge Volume: 5.0 Operator: CJG

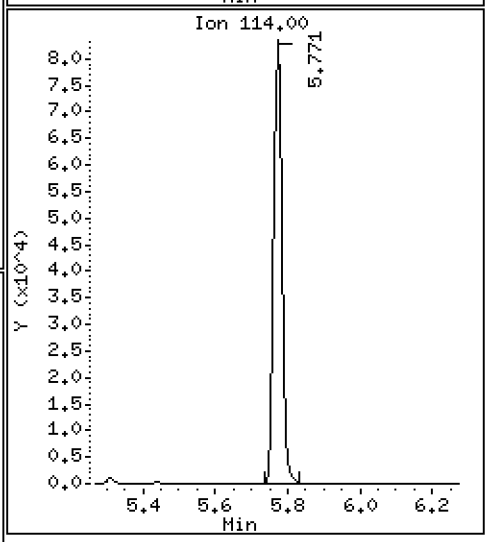
Column phase: DB-VRX Column diameter: 0.25

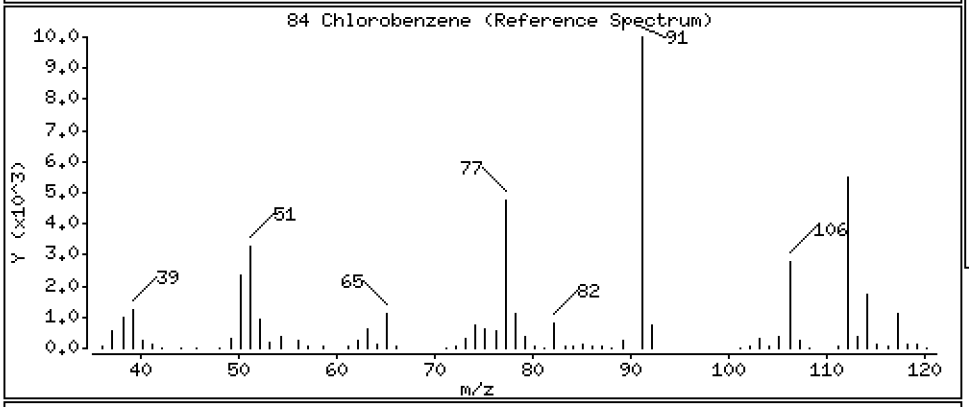
84 Chlorobenzene Concentration: 18.1770 ug/L

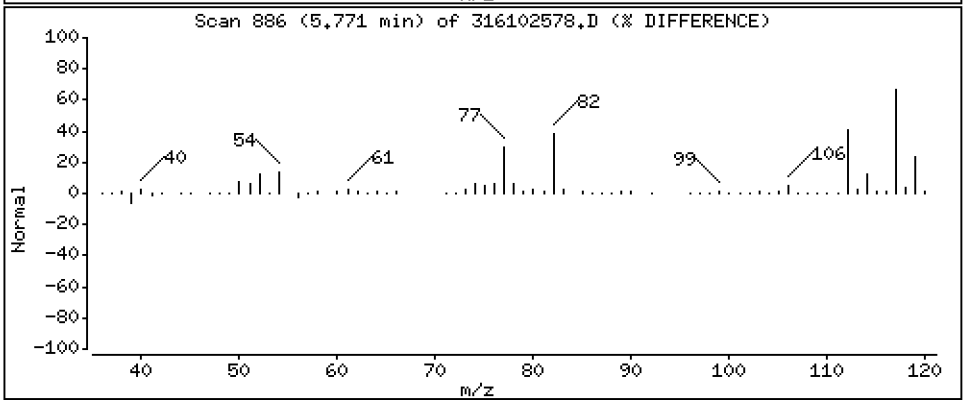












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 93

Date : 26-OCT-2016 07:52

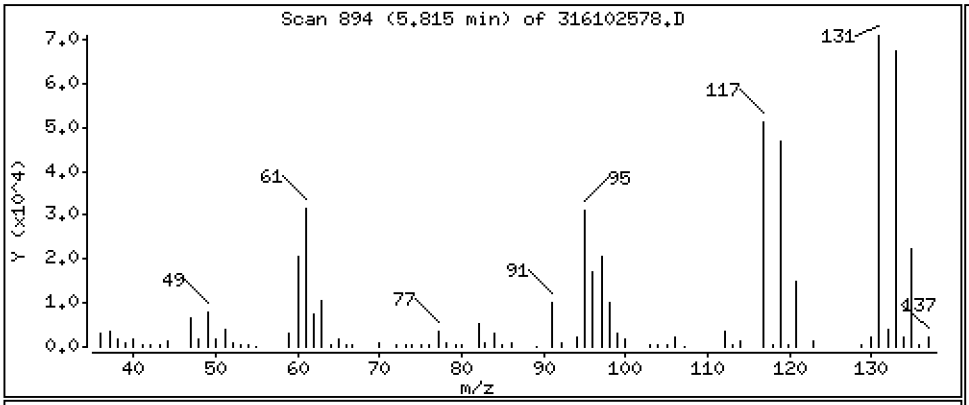
Client ID: 2184163001MSD Instrument: ms03.i

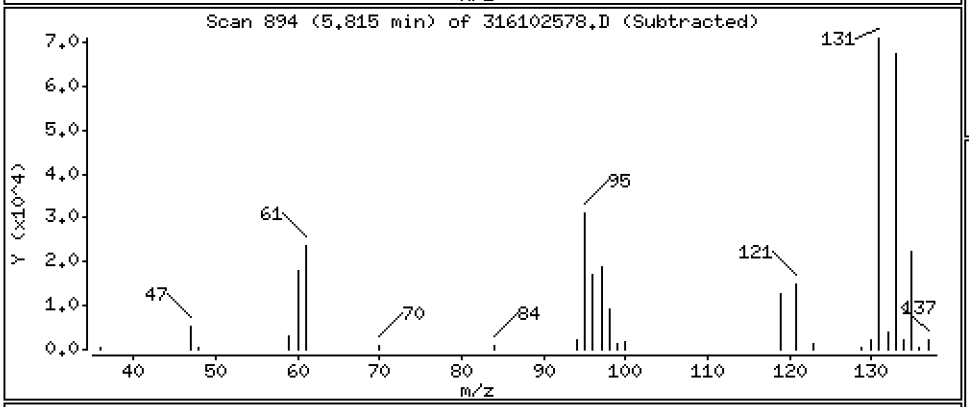
Sample Info: 2429374;;1;3;;MSD;1;

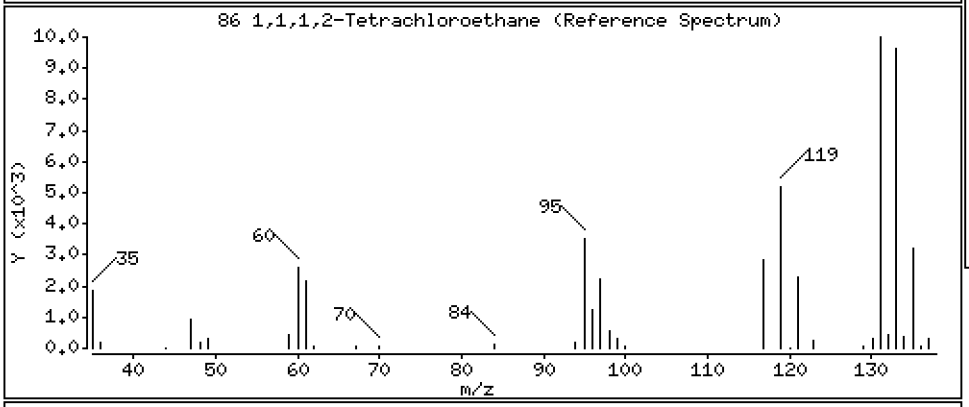
Purge Volume: 5.0 Operator: CJG

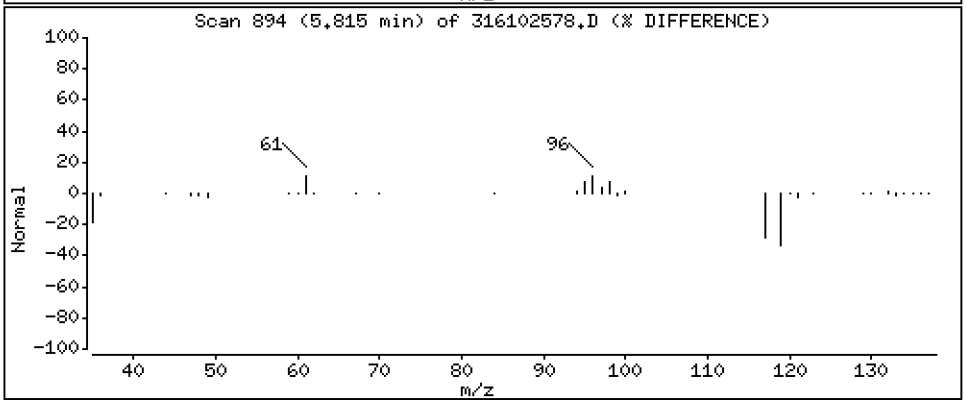
Column phase: DB-VRX Column diameter: 0.25

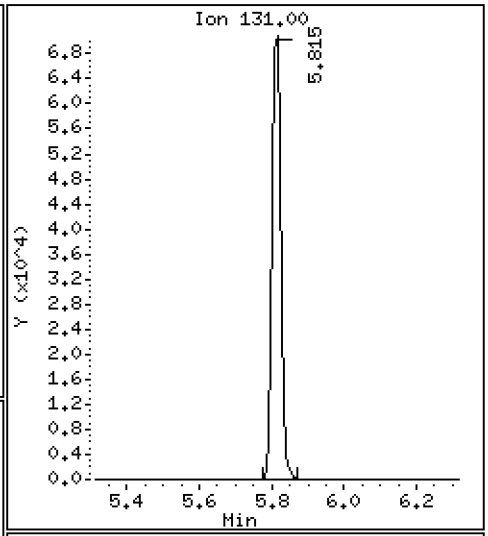
86 1,1,1,2-Tetrachloroethane Concentration: 19.5507 ug/L

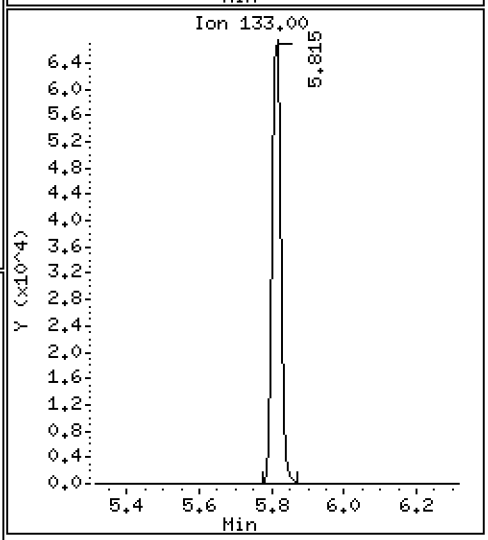












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 94

Date : 26-OCT-2016 07:52

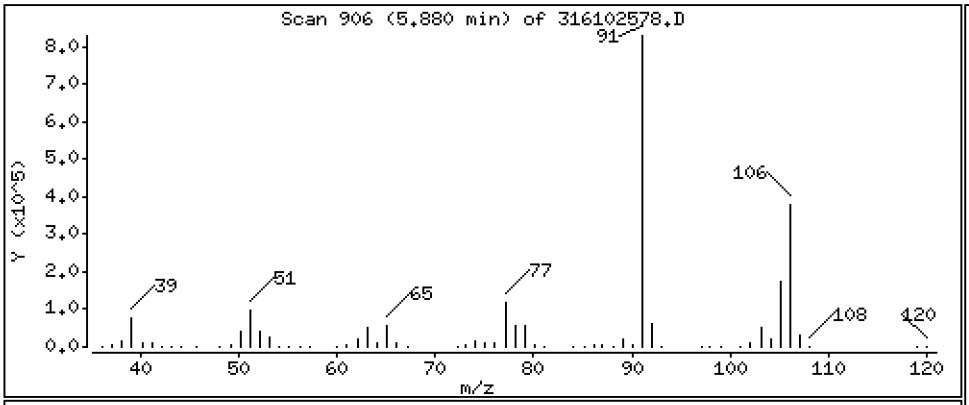
Client ID: 2184163001MSD Instrument: ms03.i

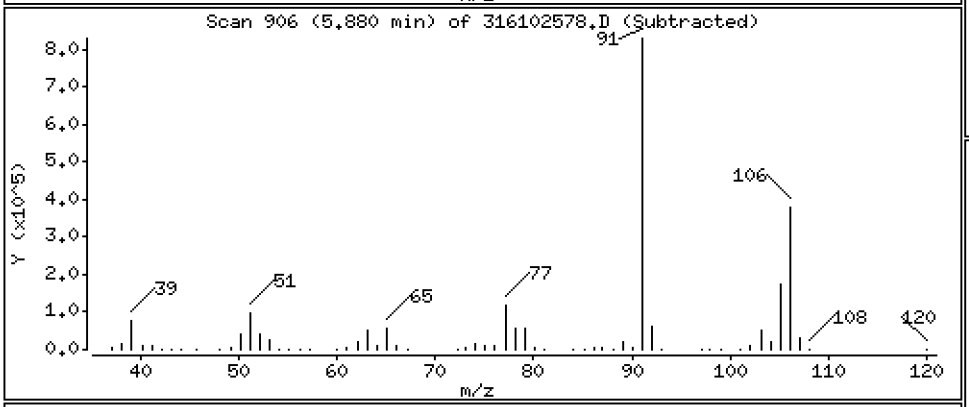
Sample Info: 2429374;;1;3;;MSD;1;

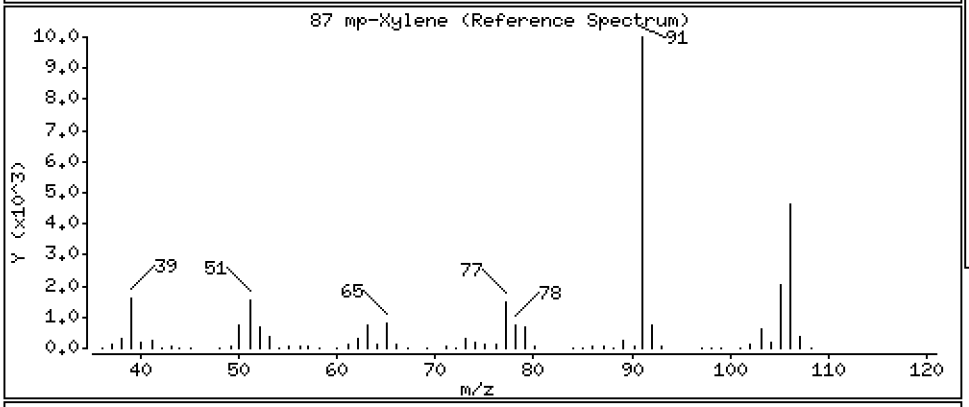
Purge Volume: 5.0 Operator: CJG

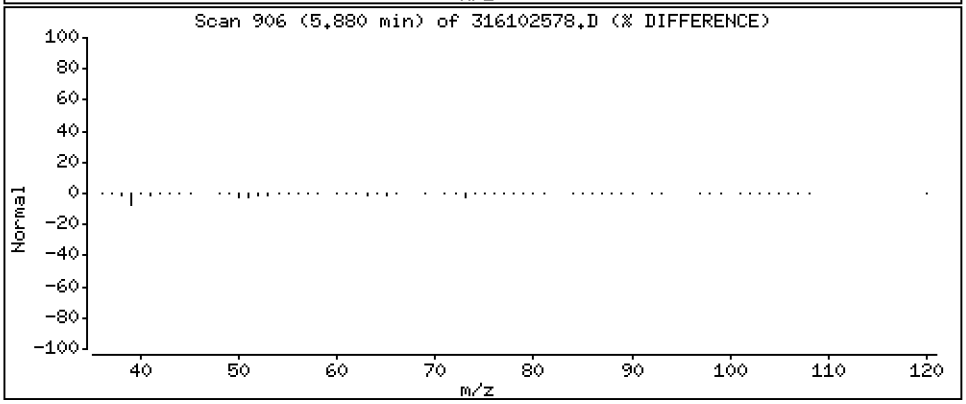
Column phase: DB-VRX Column diameter: 0.25

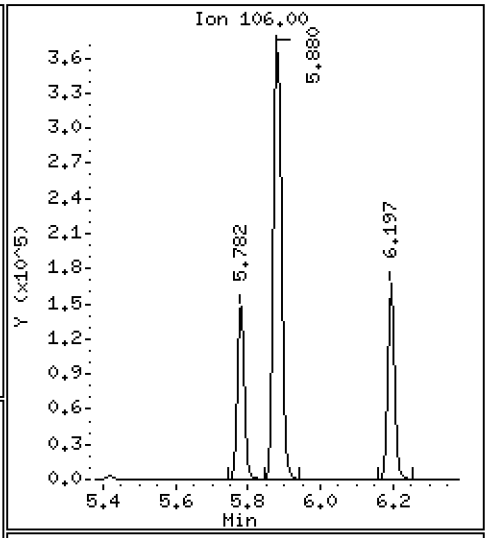
87 mp-Xylene Concentration: 38.6191 ug/L

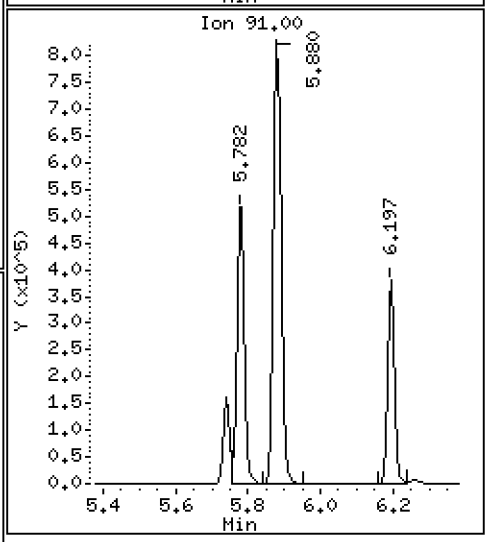












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 95

Date : 26-OCT-2016 07:52

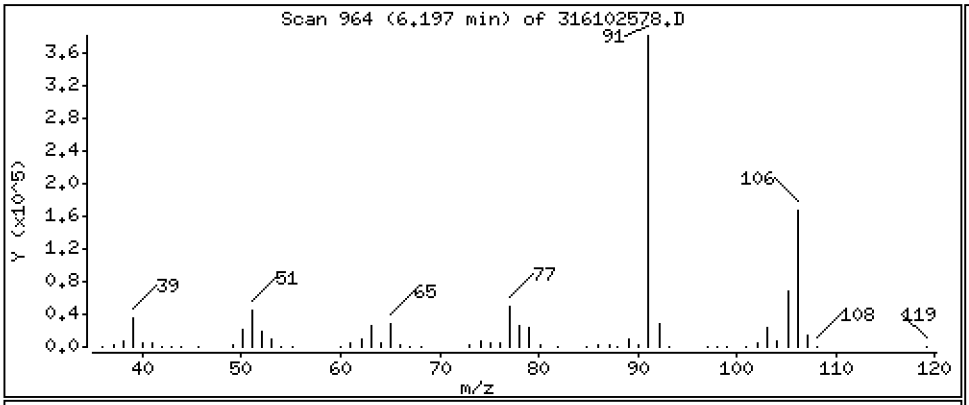
Client ID: 2184163001MSD Instrument: ms03.i

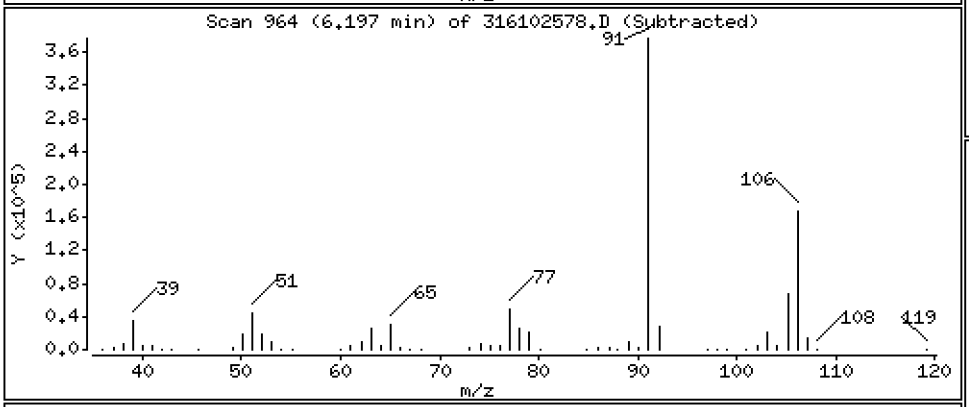
Sample Info: 2429374;;1;3;;MSD;1;

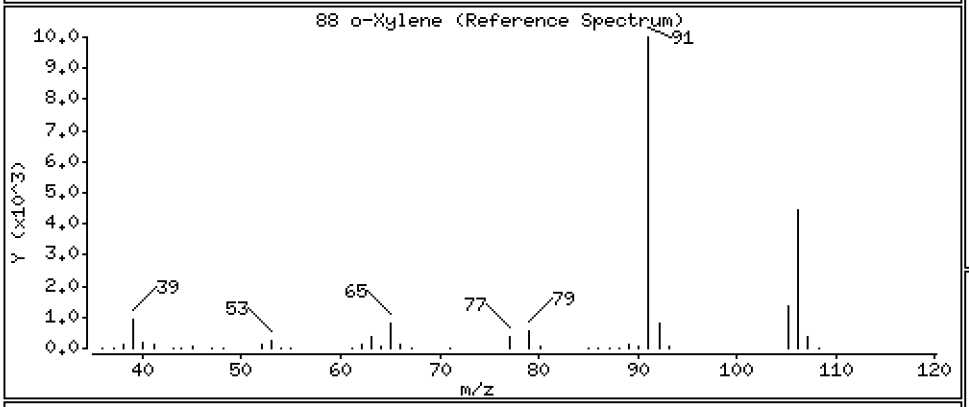
Purge Volume: 5.0 Operator: CJG

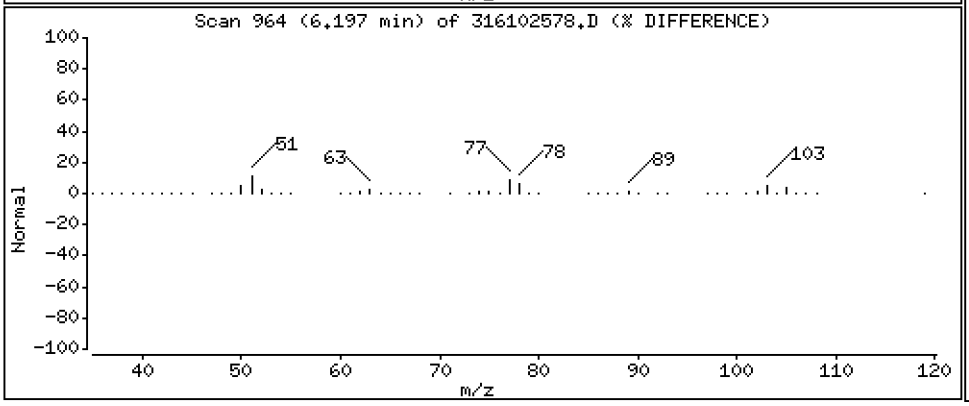
Column phase: DB-VRX Column diameter: 0.25

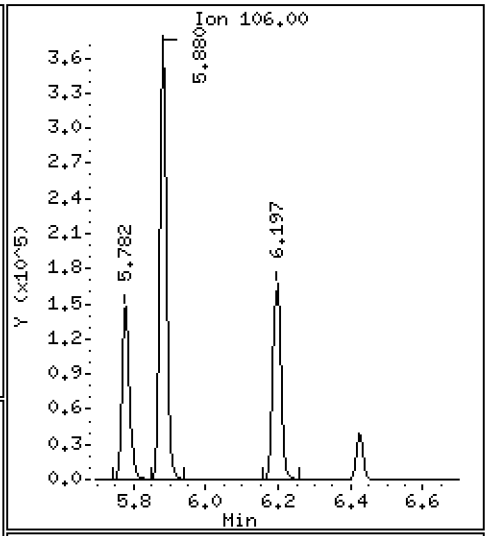
88 o-Xylene Concentration: 19.4734 ug/L

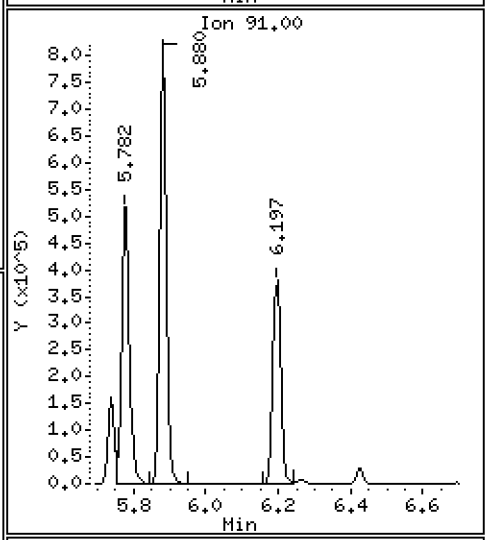


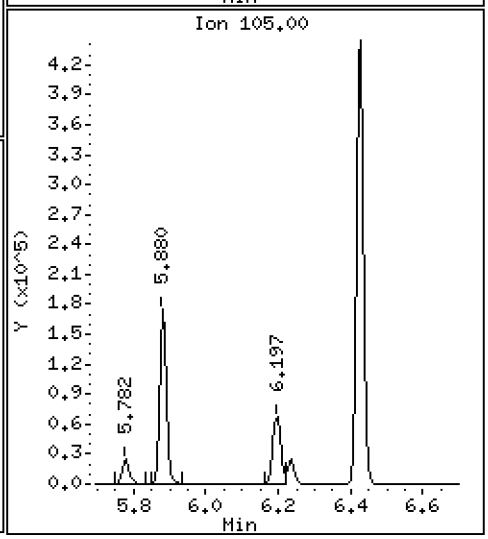












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 96

Date : 26-OCT-2016 07:52

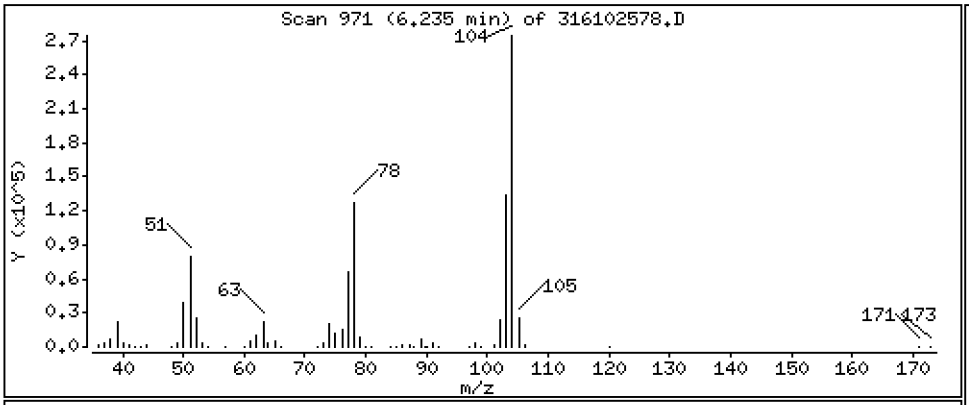
Client ID: 2184163001MSD Instrument: ms03.i

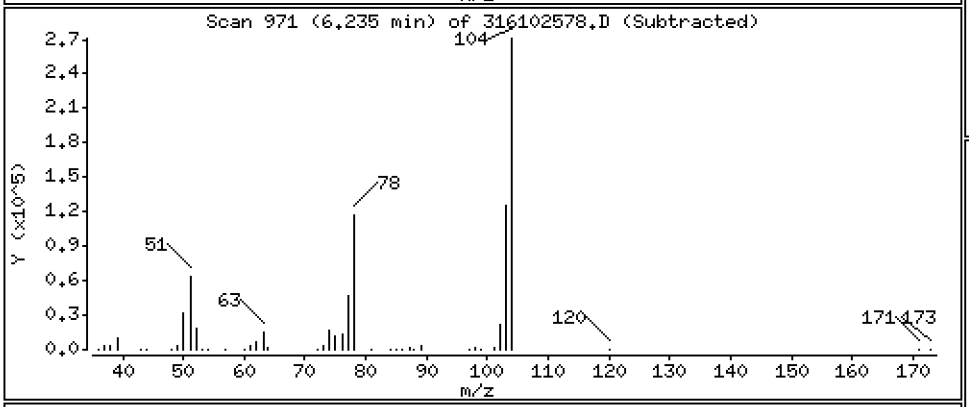
Sample Info: 2429374;;1;3;;MSD;1;

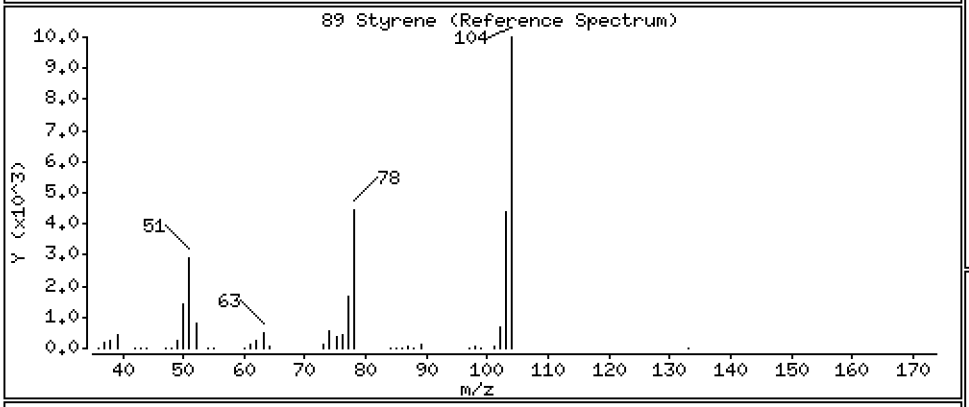
Purge Volume: 5.0 Operator: CJG

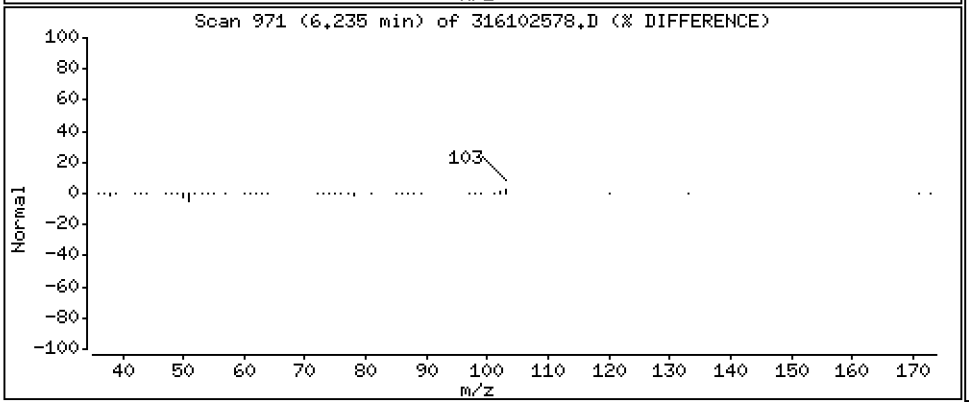
Column phase: DB-VRX Column diameter: 0.25

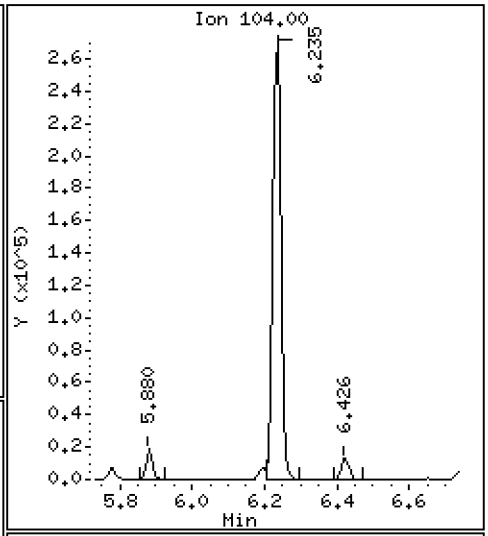
89 Styrene Concentration: 21.2857 ug/L

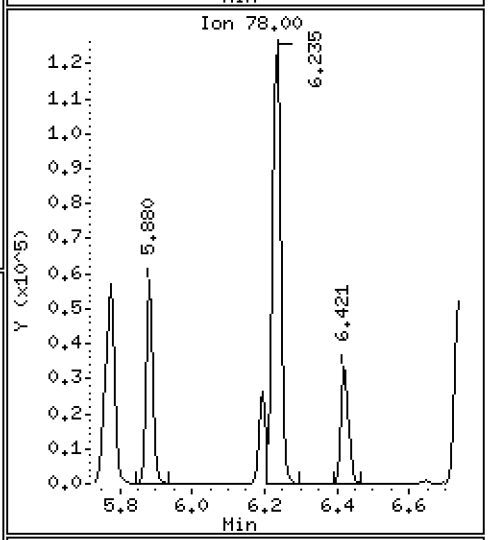


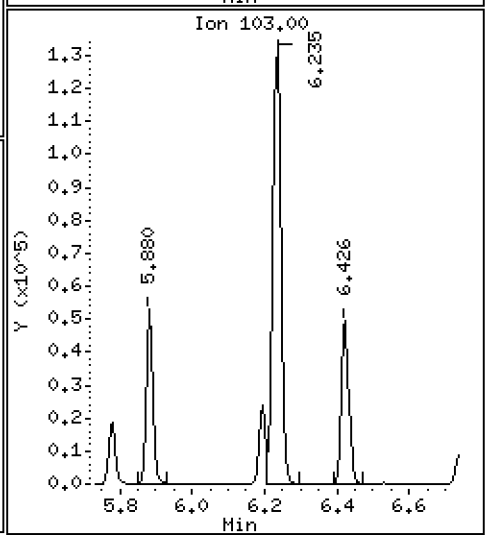












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 97

Date : 26-OCT-2016 07:52

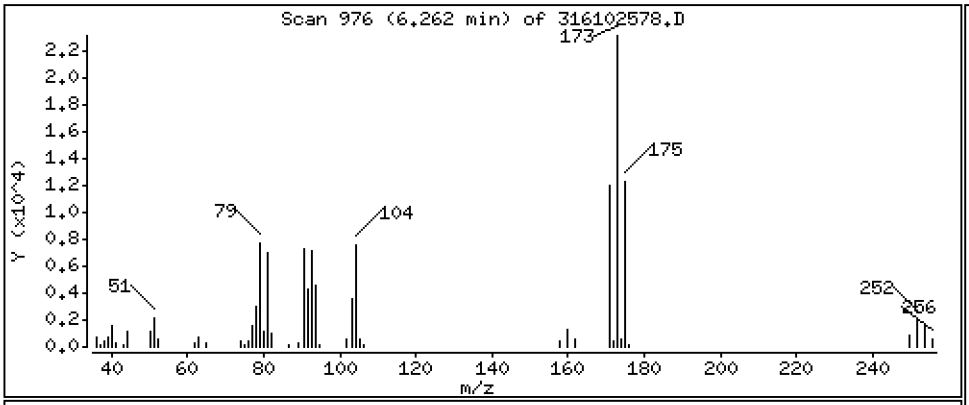
Client ID: 2184163001MSD Instrument: ms03.i

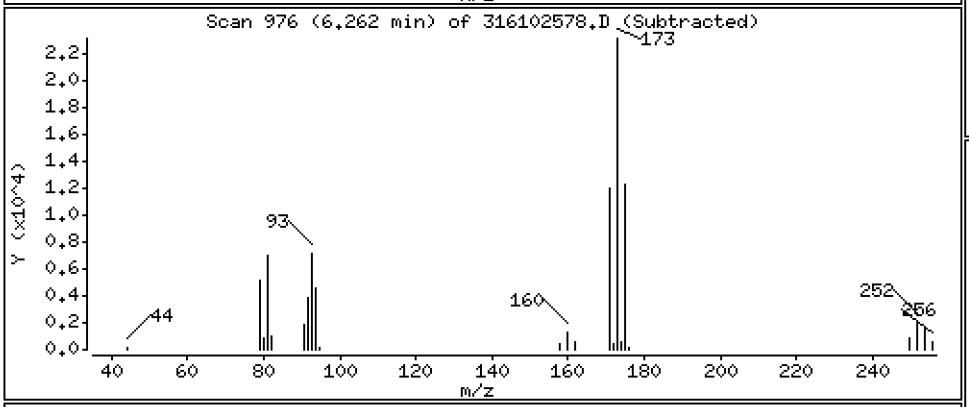
Sample Info: 2429374;;1;3;;MSD;1;

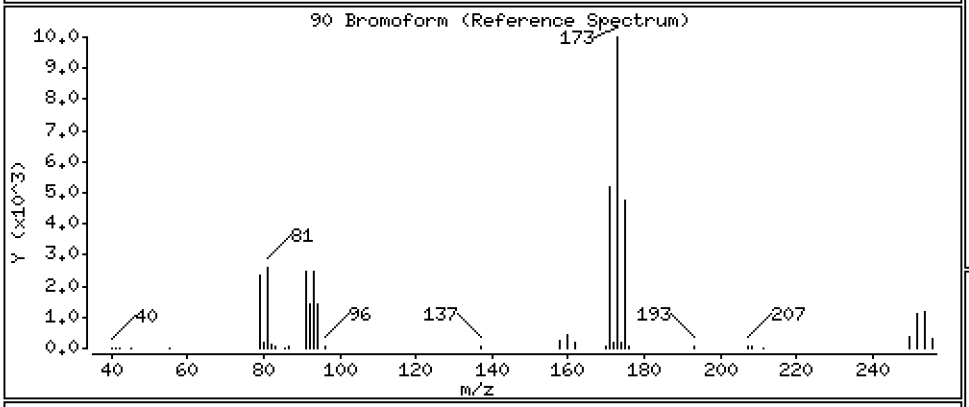
Purge Volume: 5.0 Operator: CJG

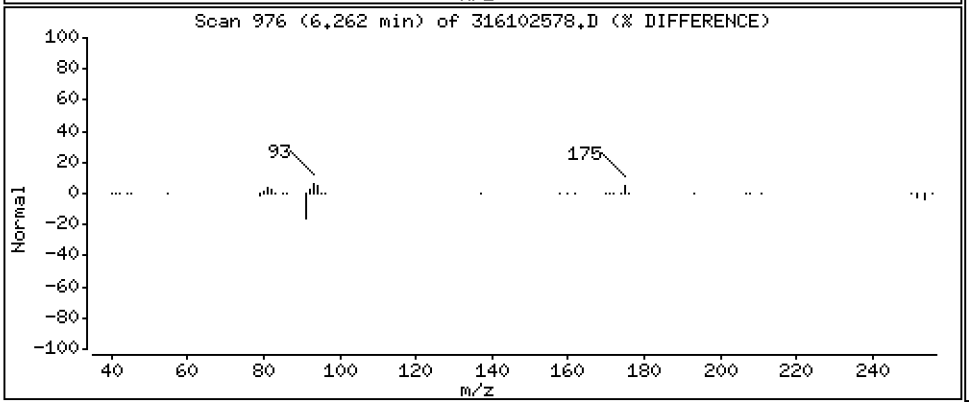
Column phase: DB-VRX Column diameter: 0.25

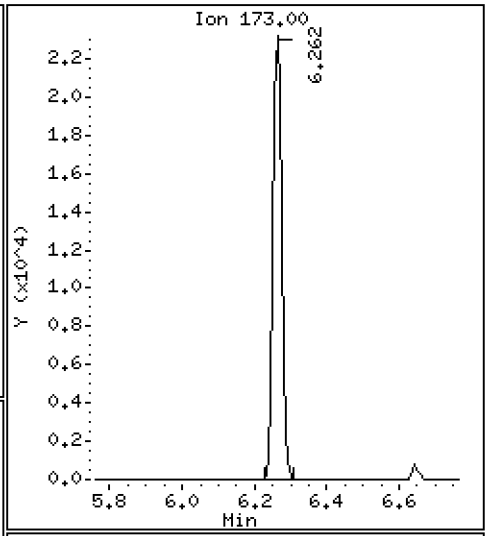
90 Bromoform Concentration: 15.8448 ug/L

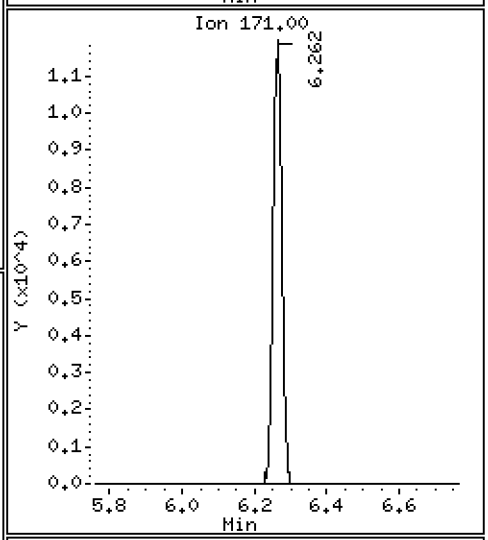


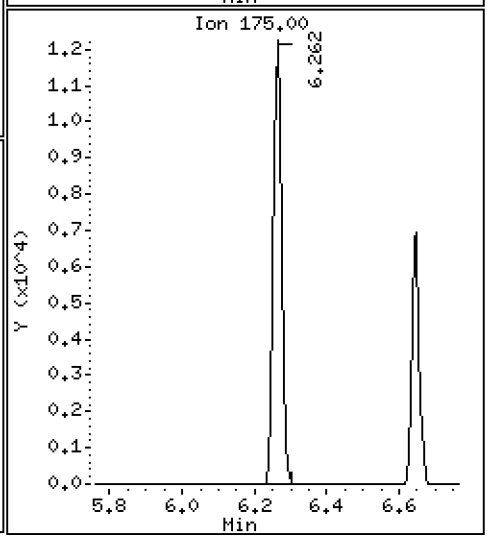












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 98

Date : 26-OCT-2016 07:52

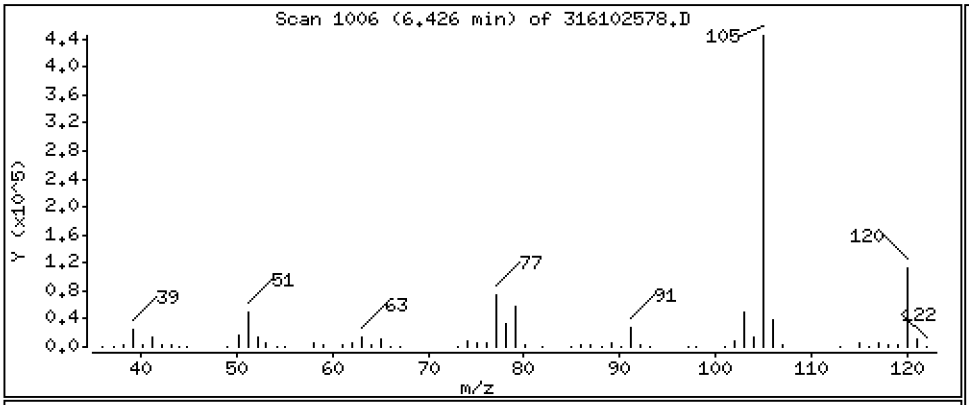
Client ID: 2184163001MSD Instrument: ms03.i

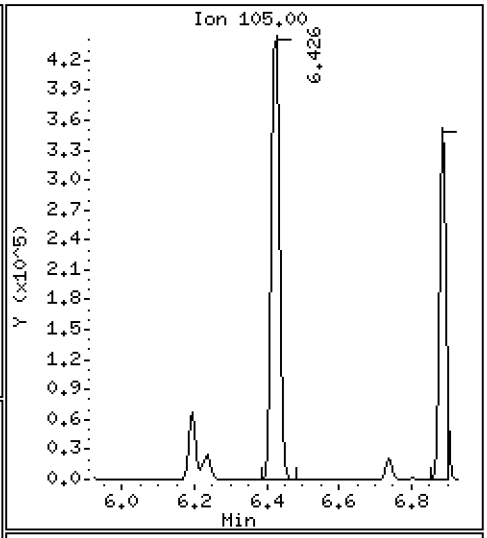
Sample Info: 2429374;;1;3;;MSD;1;

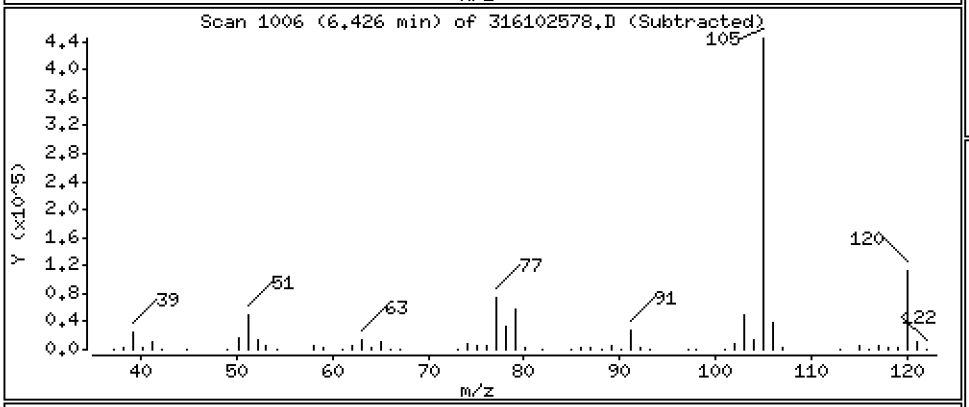
Purge Volume: 5.0 Operator: CJG

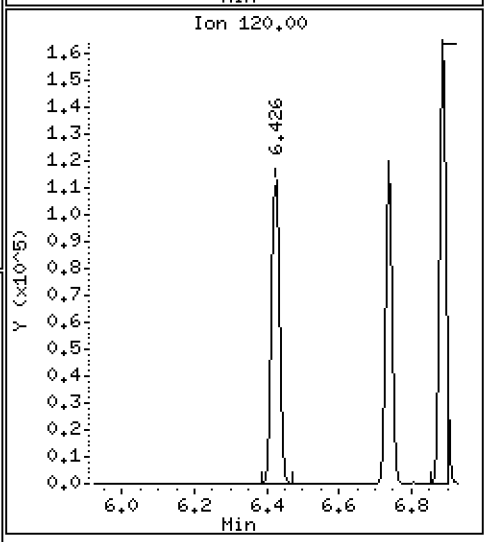
Column phase: DB-VRX Column diameter: 0.25

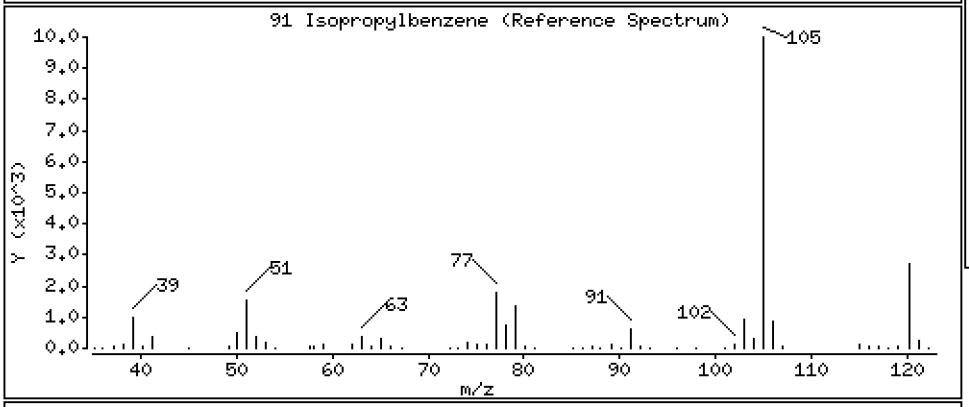
91 Isopropylbenzene Concentration: 21.3454 ug/L

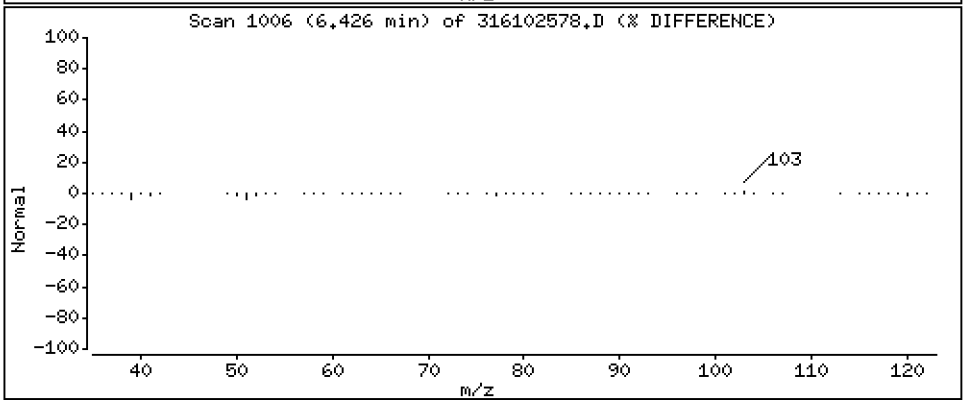












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 99

Date : 26-OCT-2016 07:52

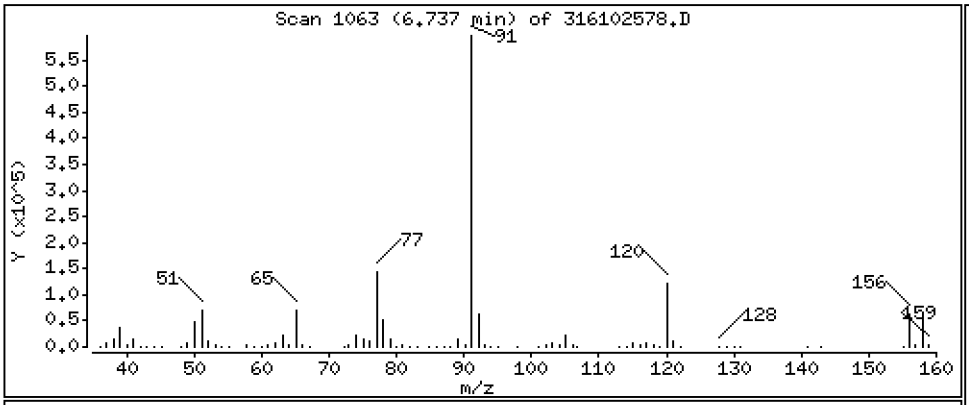
Client ID: 2184163001MSD Instrument: ms03.i

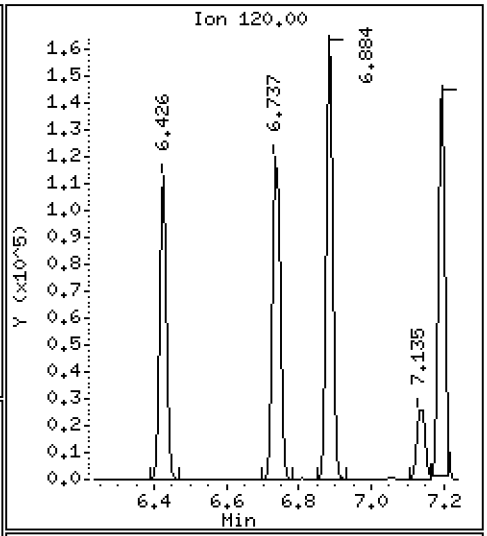
Sample Info: 2429374;;1;3;;MSD;1;

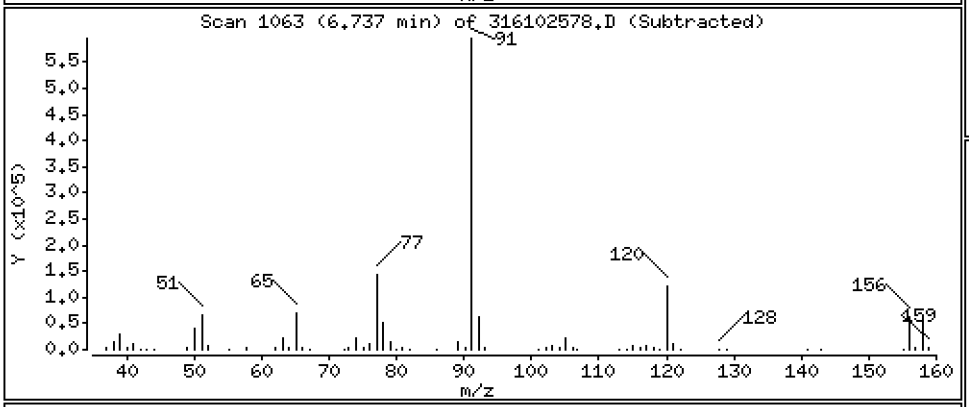
Purge Volume: 5.0 Operator: CJG

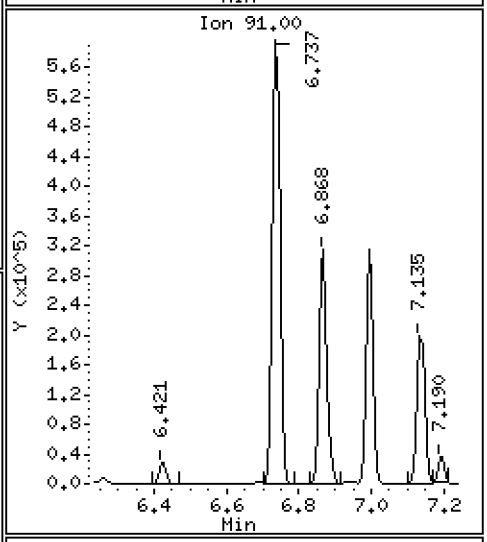
Column phase: DB-VRX Column diameter: 0.25

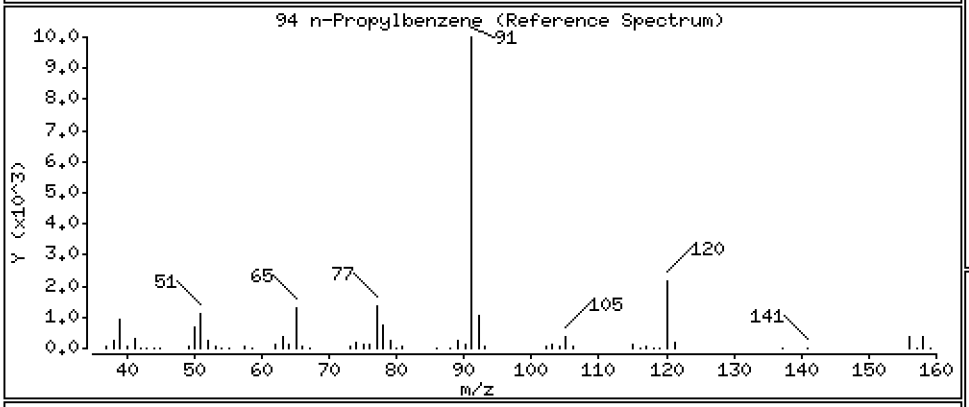
94 n-Propylbenzene Concentration: 21.3955 ug/L

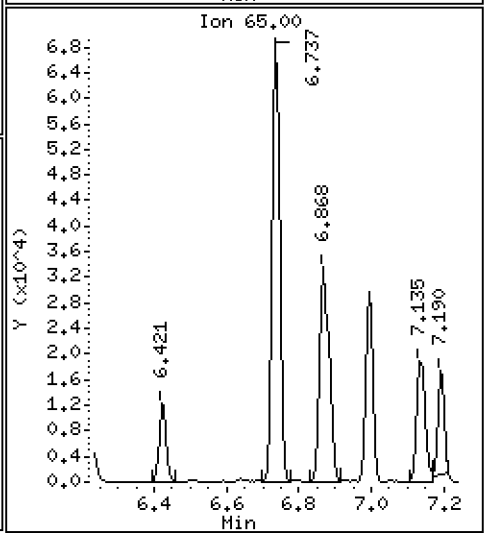


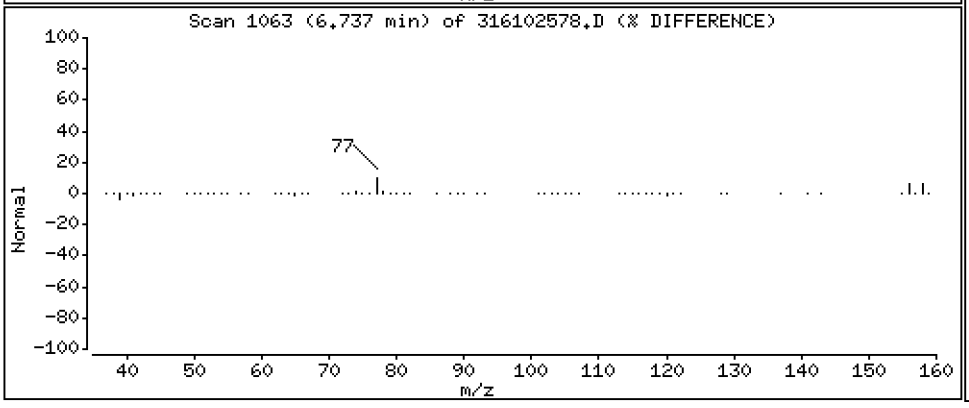












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 100

Date : 26-OCT-2016 07:52

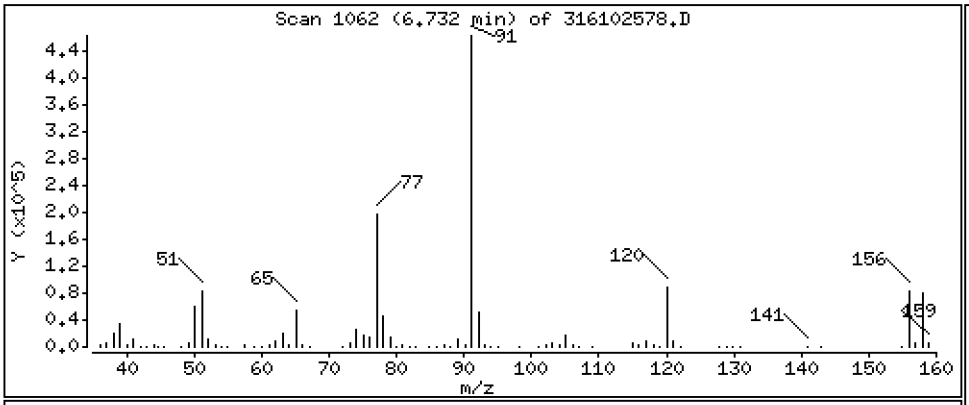
Client ID: 2184163001MSD Instrument: ms03.i

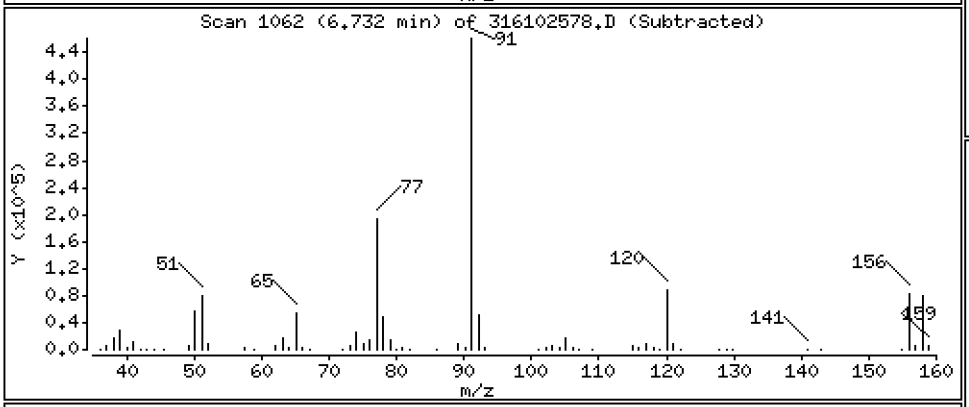
Sample Info: 2429374;;1;3;;MSD;1;

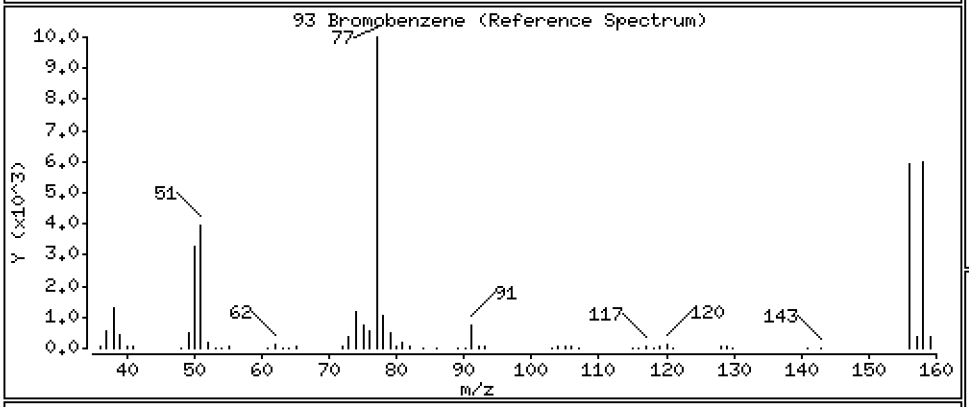
Purge Volume: 5.0 Operator: CJG

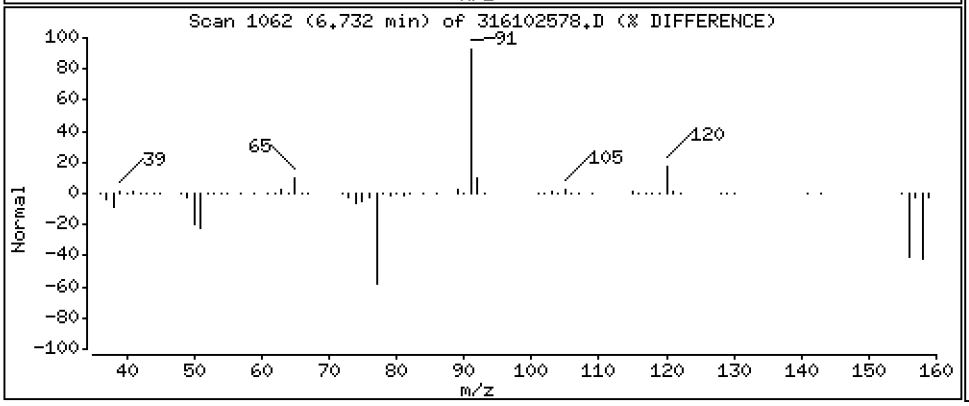
Column phase: DB-VRX Column diameter: 0.25

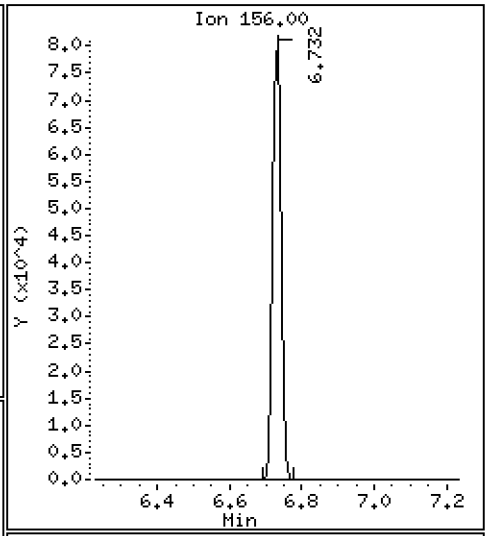
93 Bromobenzene Concentration: 19.2656 ug/L

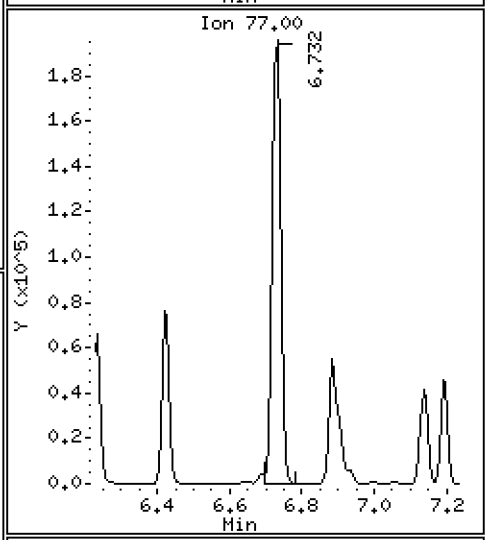


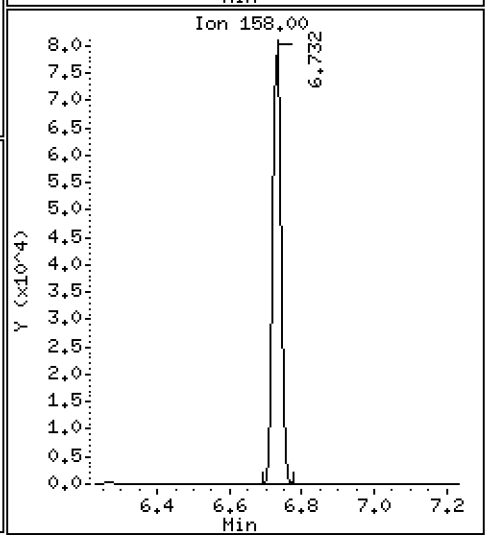












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 101

Date : 26-OCT-2016 07:52

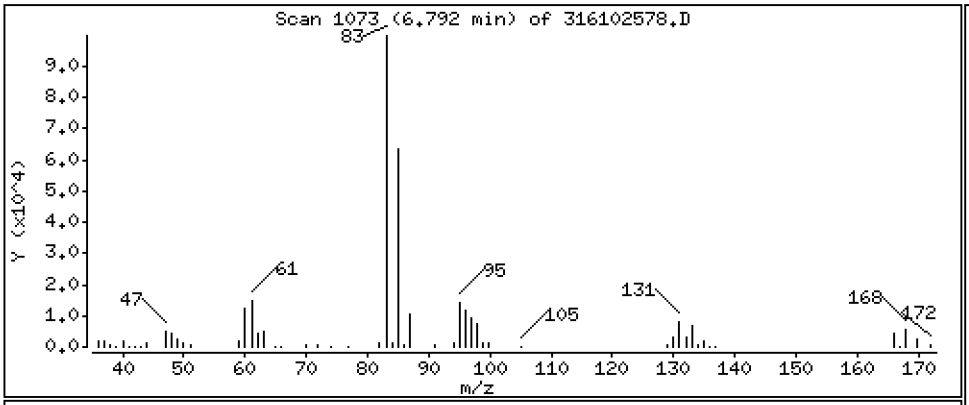
Client ID: 2184163001MSD Instrument: ms03.i

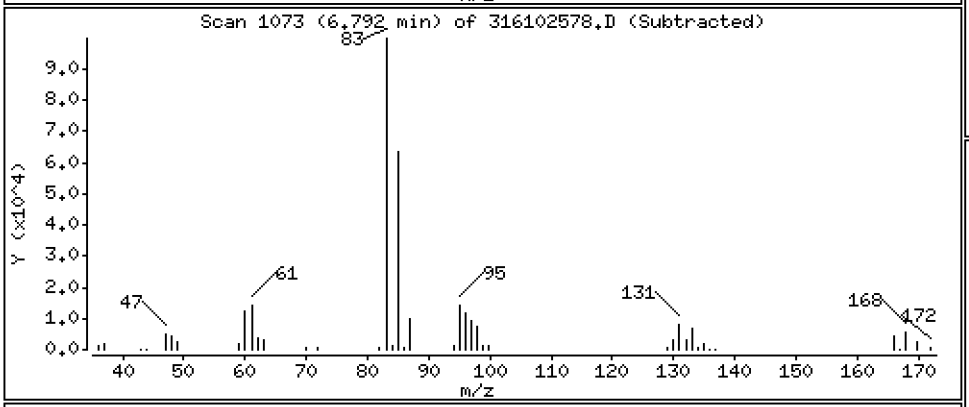
Sample Info: 2429374;;1;3;;MSD;1;

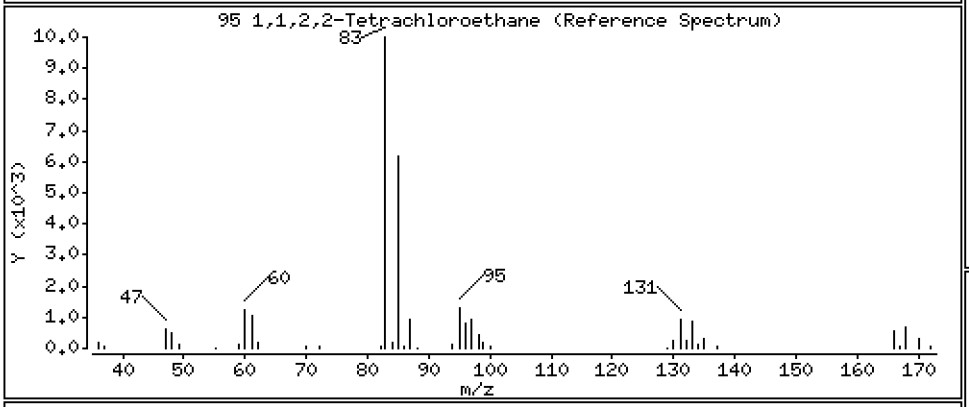
Purge Volume: 5.0 Operator: CJG

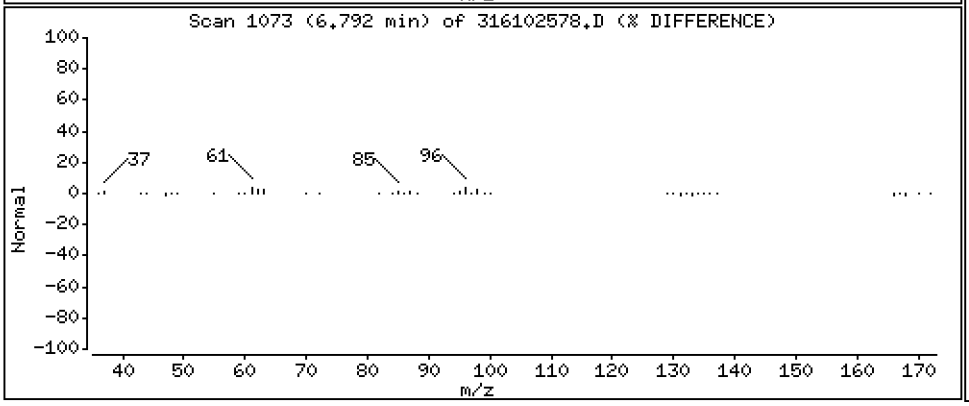
Column phase: DB-VRX Column diameter: 0.25

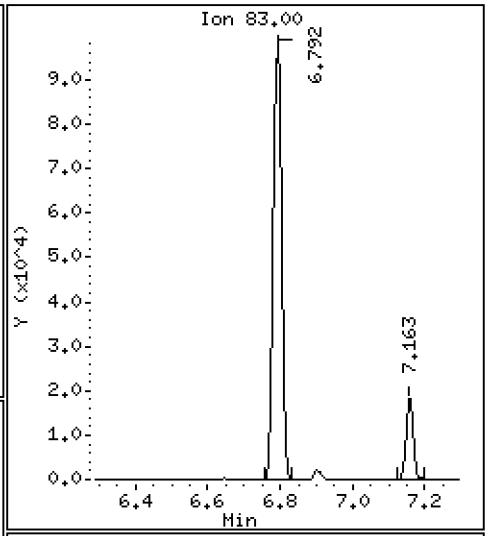
95 1,1,2,2-Tetrachloroethane Concentration: 20.1065 ug/L

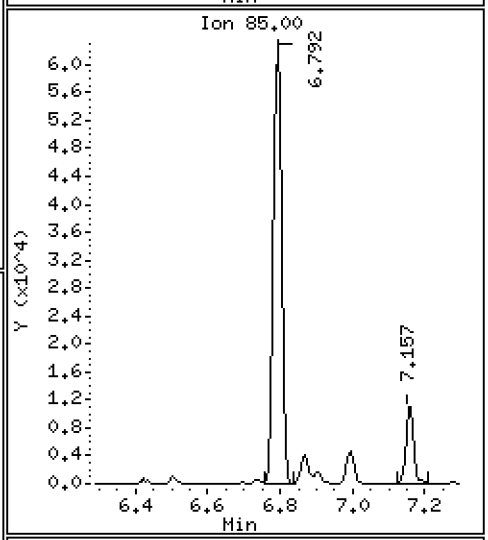


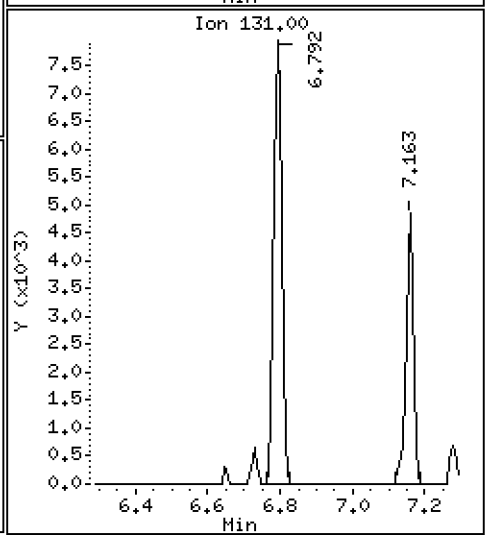












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 102

Date : 26-OCT-2016 07:52

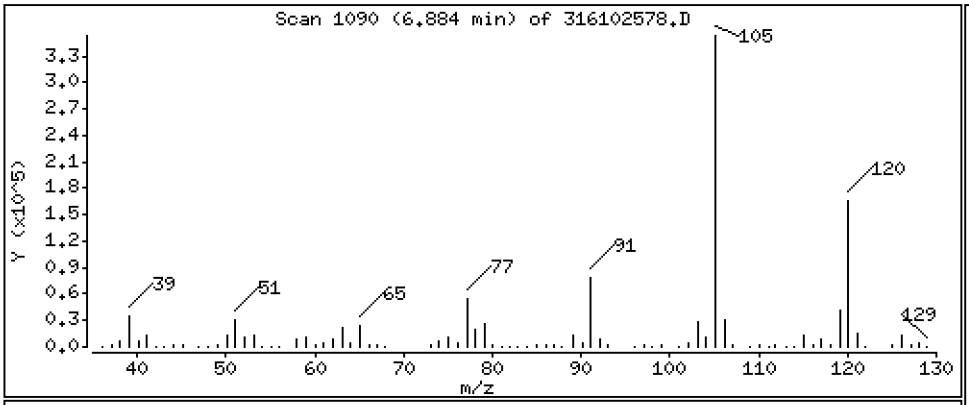
Client ID: 2184163001MSD Instrument: ms03.i

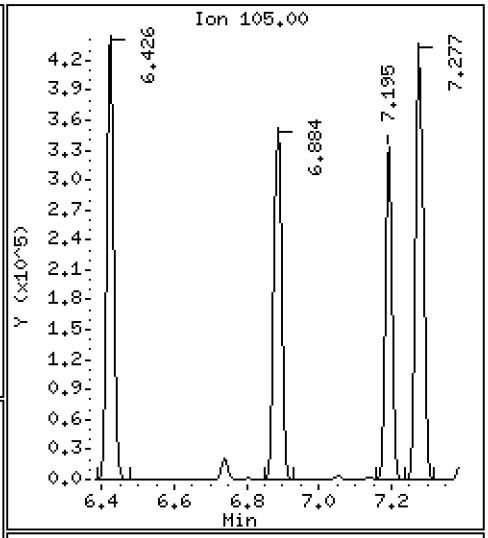
Sample Info: 2429374;;1;3;;MSD;1;

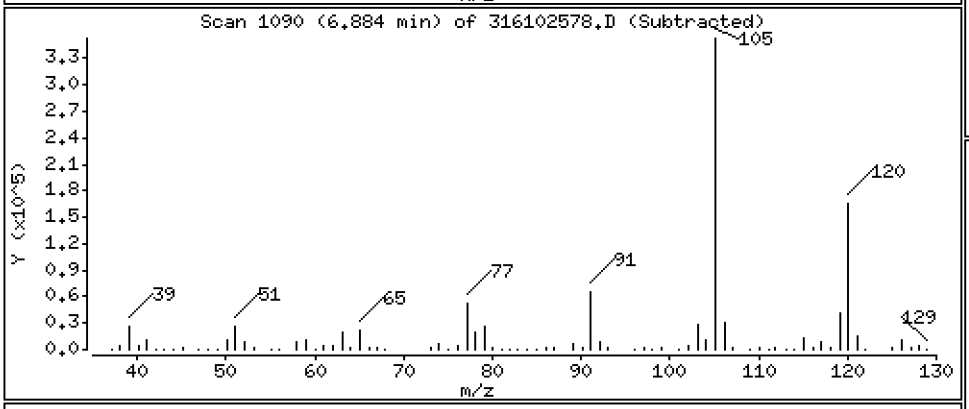
Purge Volume: 5.0 Operator: CJG

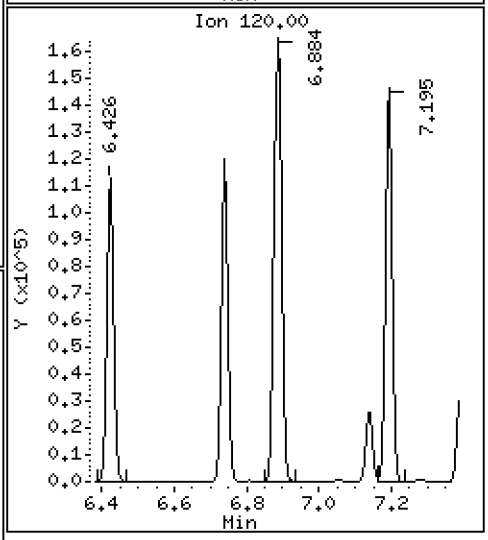
Column phase: DB-VRX Column diameter: 0.25

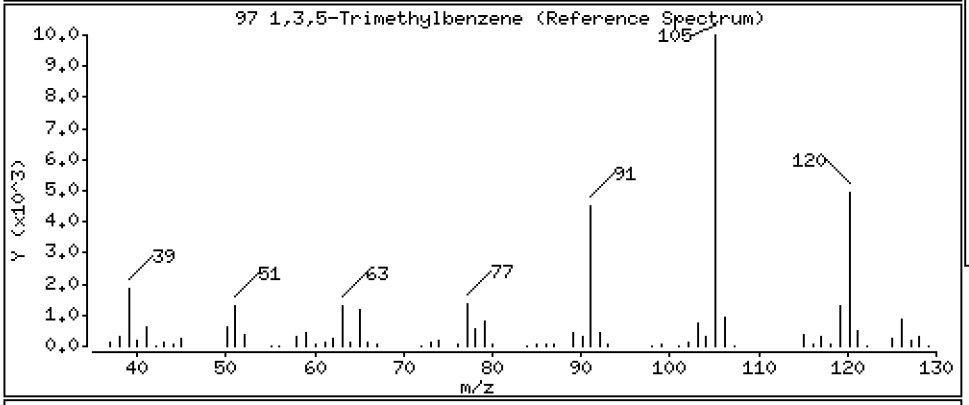
97 1,3,5-Trimethylbenzene Concentration: 22.2113 ug/L

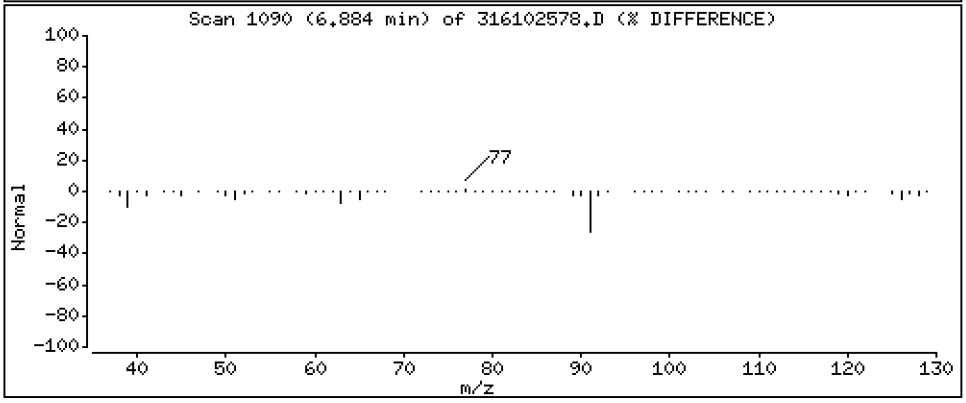












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 103

Date : 26-OCT-2016 07:52

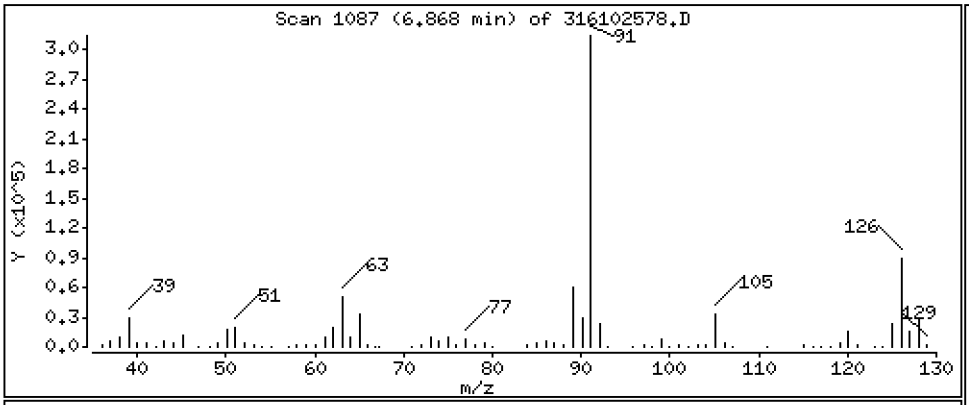
Client ID: 2184163001MSD Instrument: ms03.i

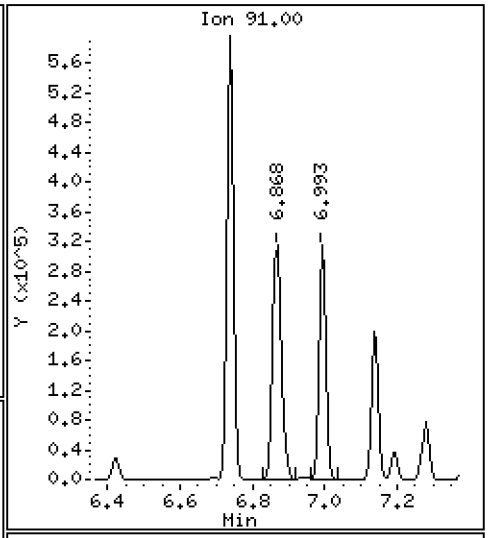
Sample Info: 2429374;;1;3;;MSD;1;

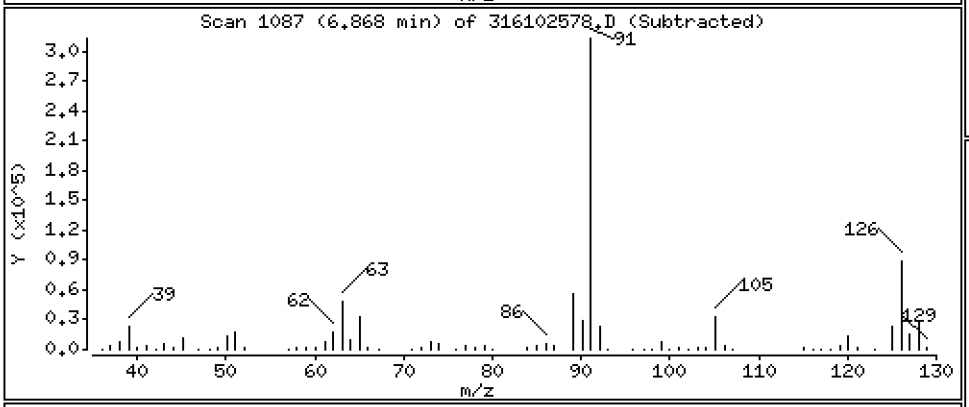
Purge Volume: 5.0 Operator: CJG

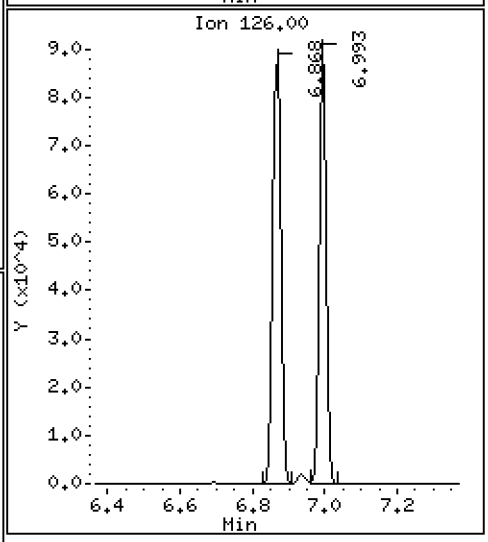
Column phase: DB-VRX Column diameter: 0.25

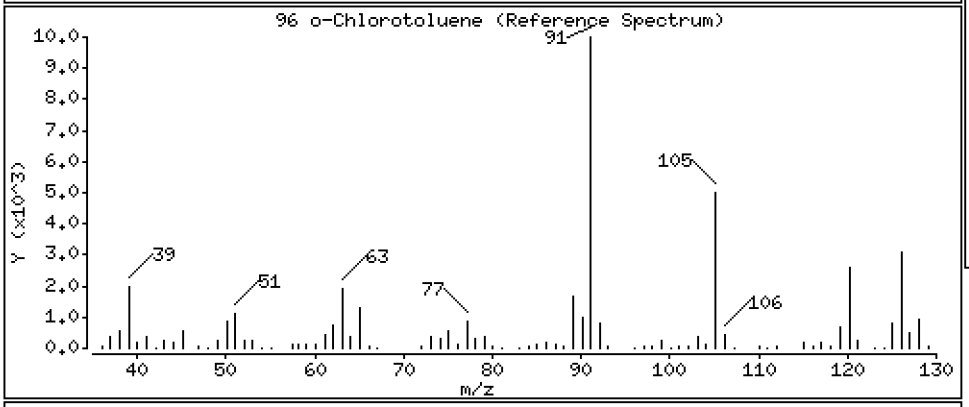
96 o-Chlorotoluene Concentration: 21.2057 ug/L

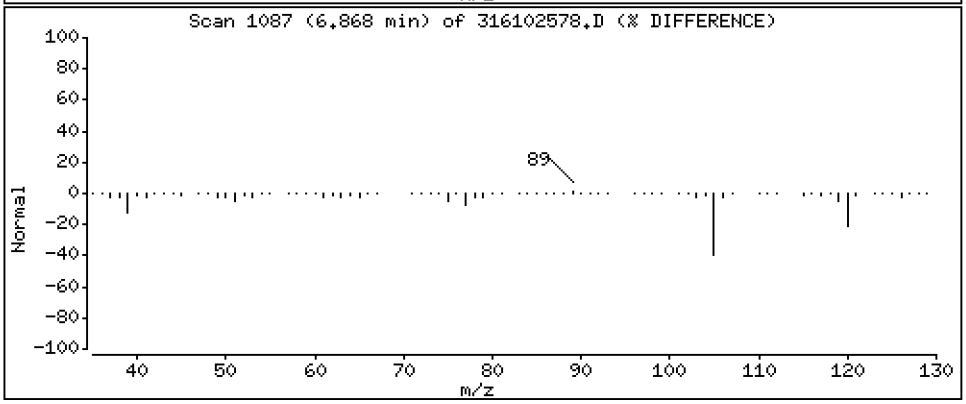












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 104

Date : 26-OCT-2016 07:52

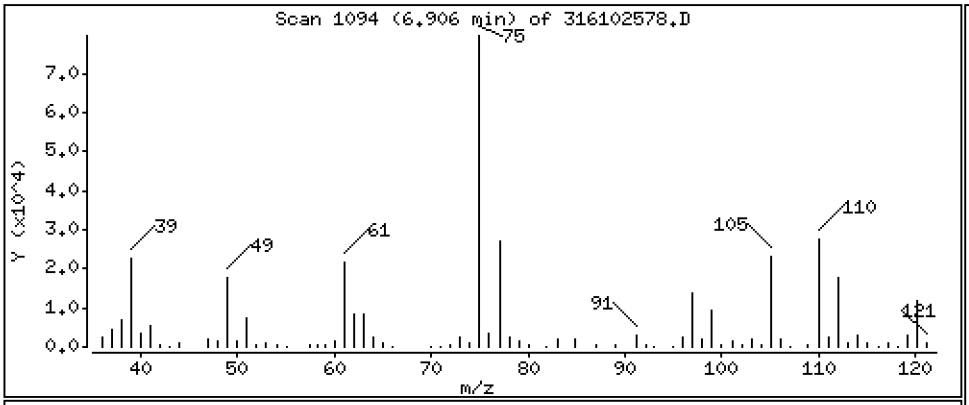
Client ID: 2184163001MSD Instrument: ms03.i

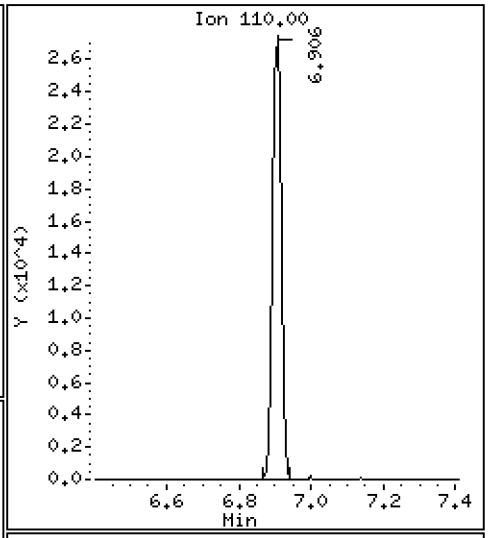
Sample Info: 2429374;;1;3;;MSD;1;

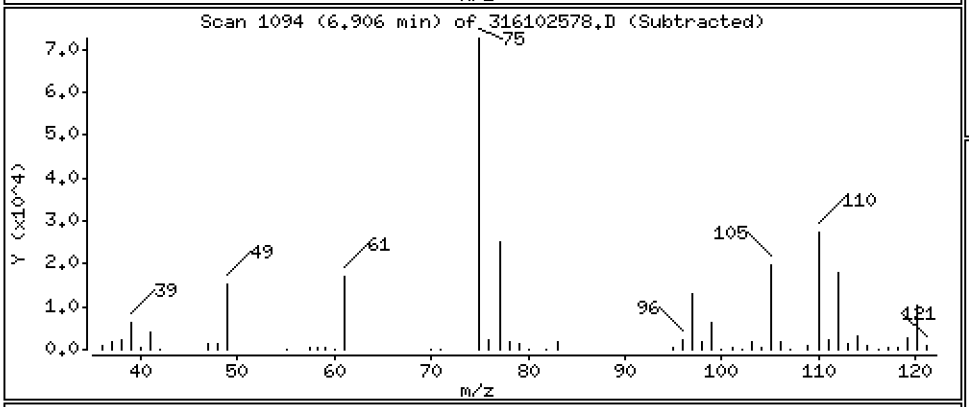
Purge Volume: 5.0 Operator: CJG

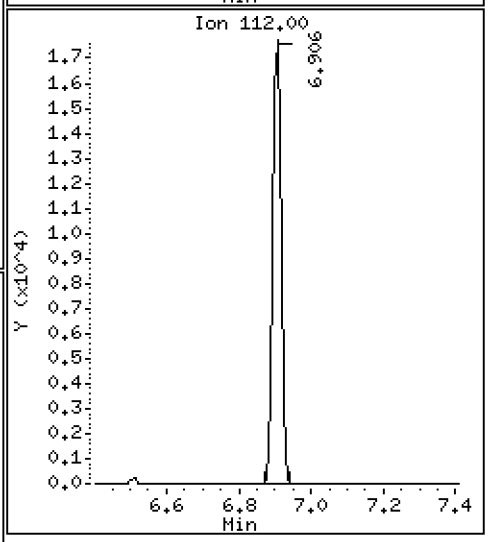
Column phase: DB-VRX Column diameter: 0.25

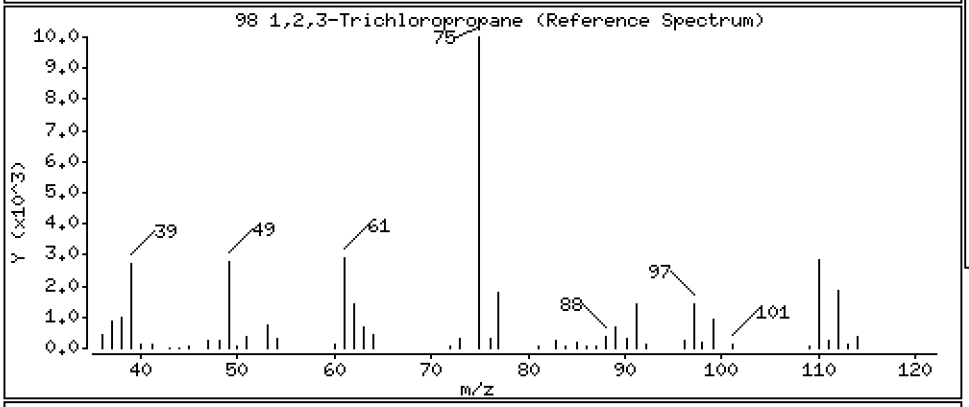
98 1,2,3-Trichloropropane Concentration: 19.7104 ug/L

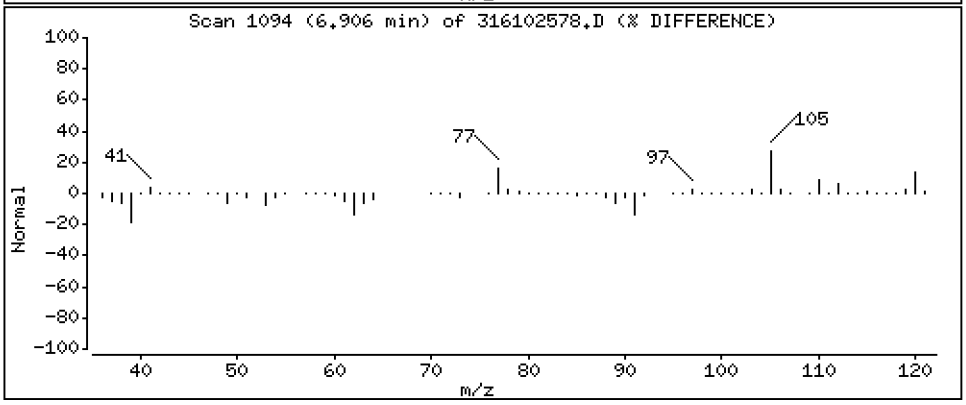












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 105

Date : 26-OCT-2016 07:52

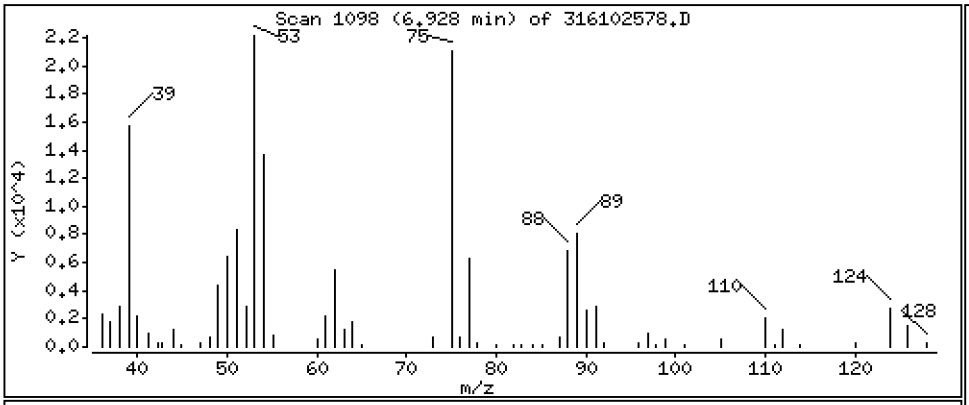
Client ID: 2184163001MSD Instrument: ms03.i

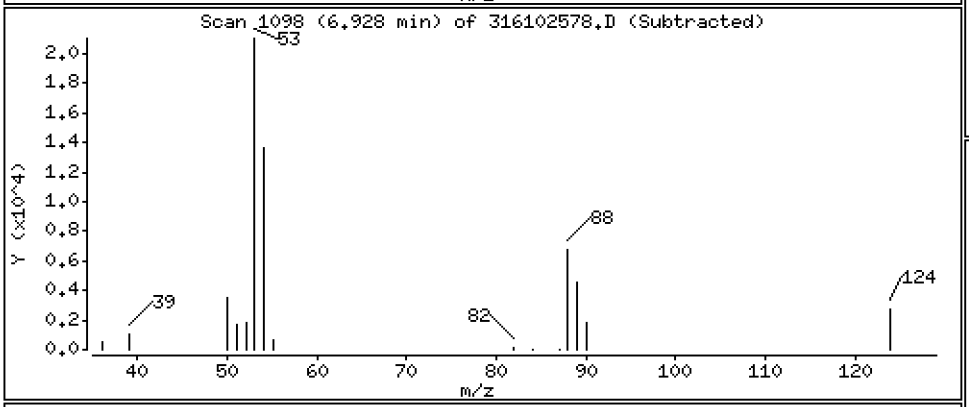
Sample Info: 2429374;;1;3;;MSD;1;

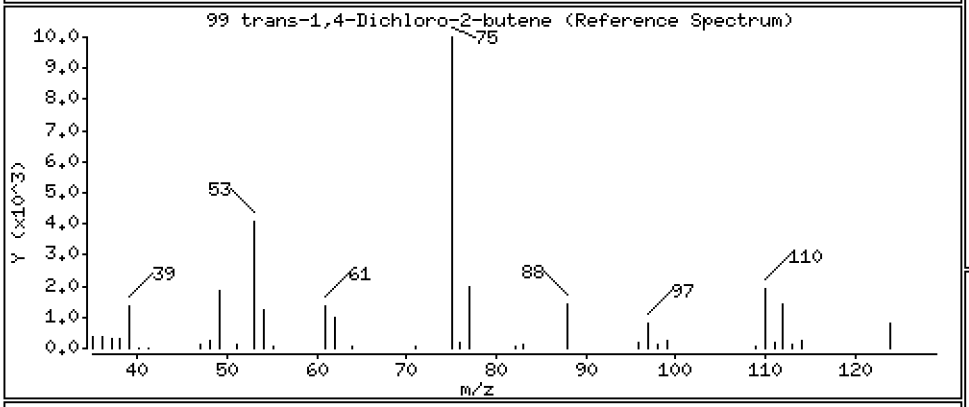
Purge Volume: 5.0 Operator: CJG

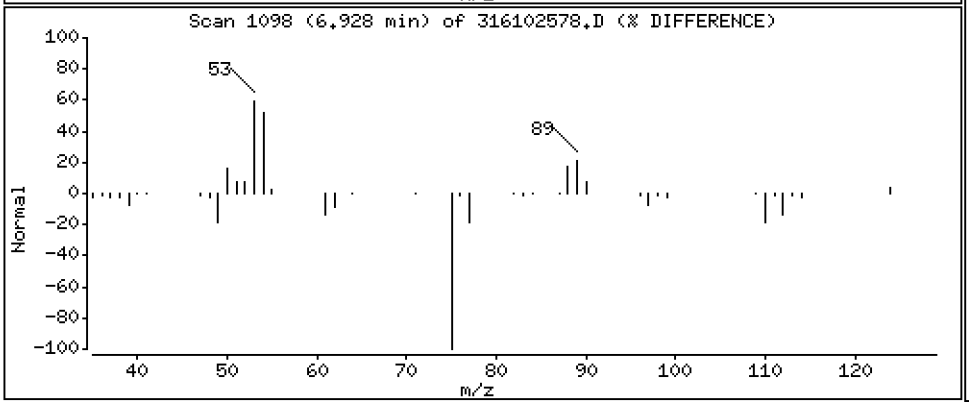
Column phase: DB-VRX Column diameter: 0.25

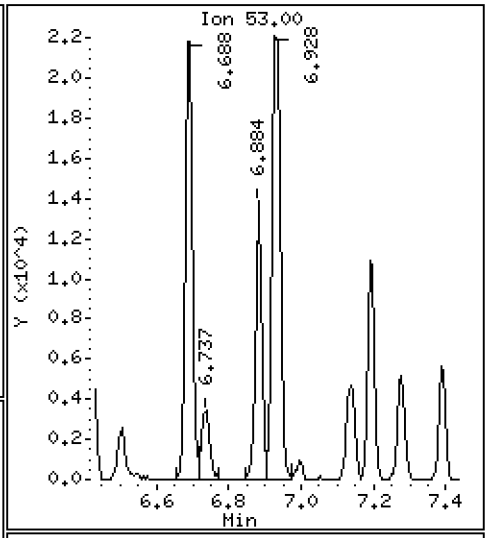
99 trans-1,4-Dichloro-2-butene Concentration: 18.7956 ug/L

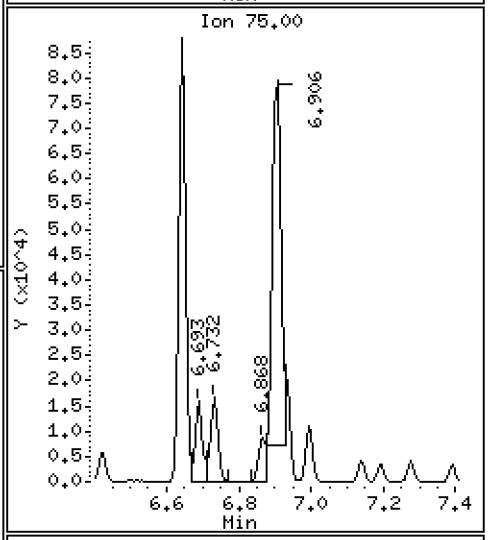


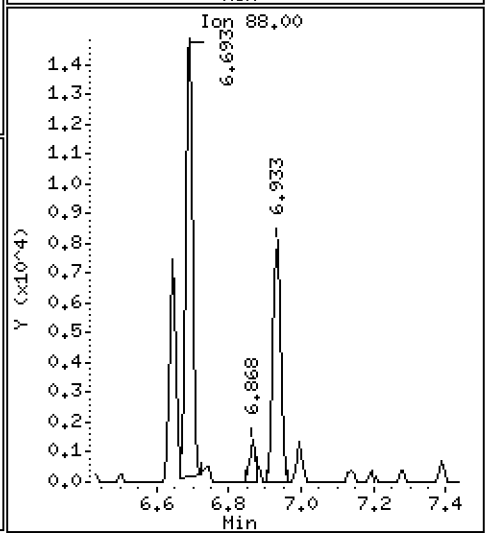












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 106

Date : 26-OCT-2016 07:52

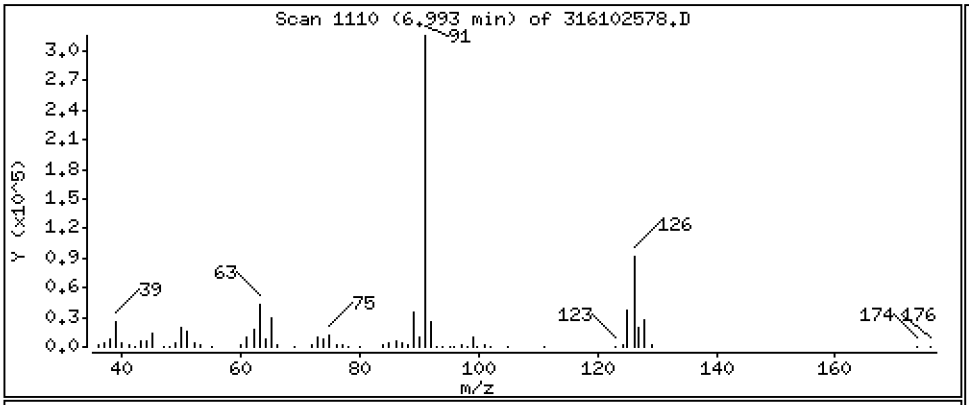
Client ID: 2184163001MSD Instrument: ms03.i

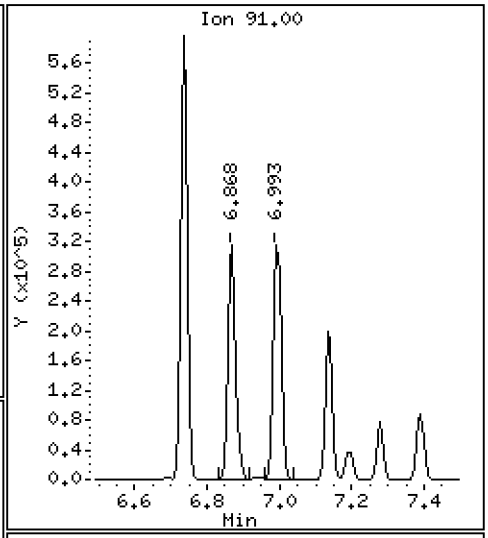
Sample Info: 2429374;;1;3;;MSD;1;

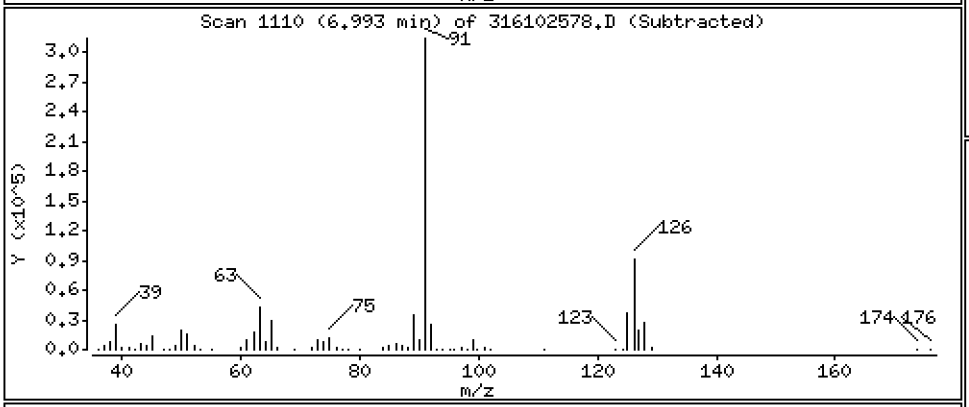
Purge Volume: 5.0 Operator: CJG

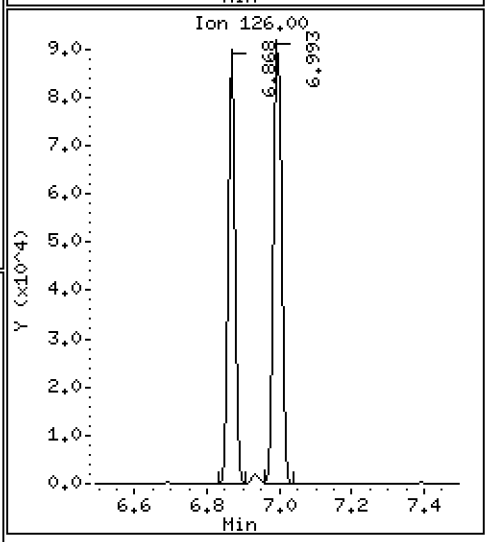
Column phase: DB-VRX Column diameter: 0.25

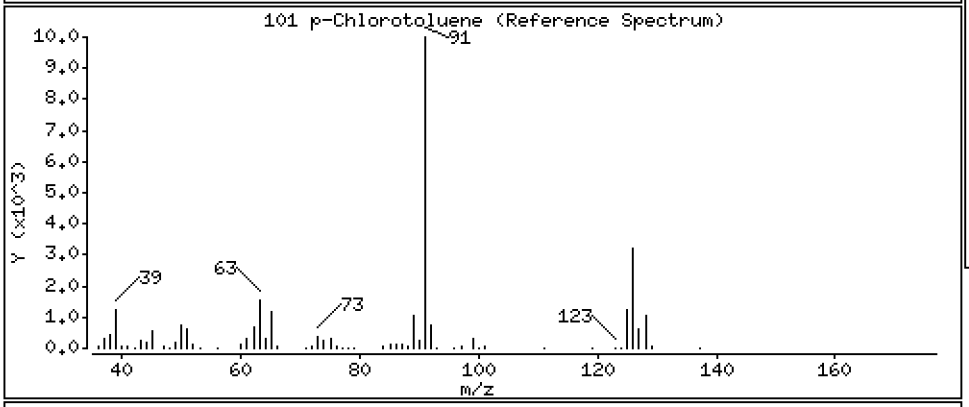
101 p-Chlorotoluene Concentration: 21.0258 ug/L

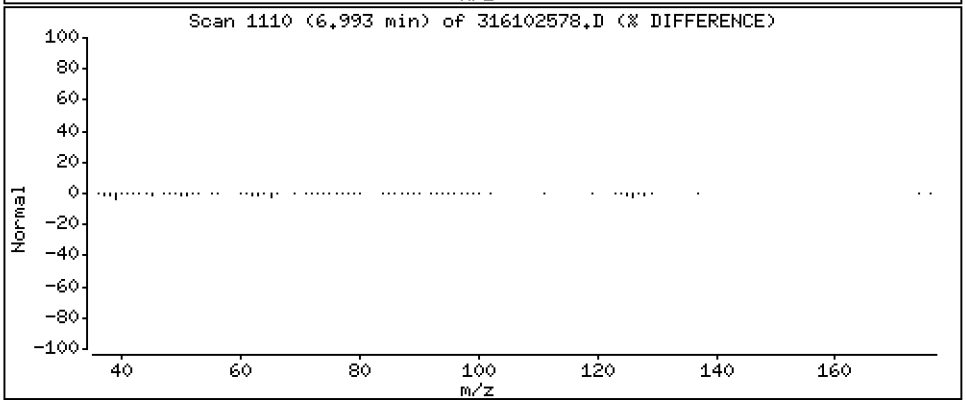












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 107

Date : 26-OCT-2016 07:52

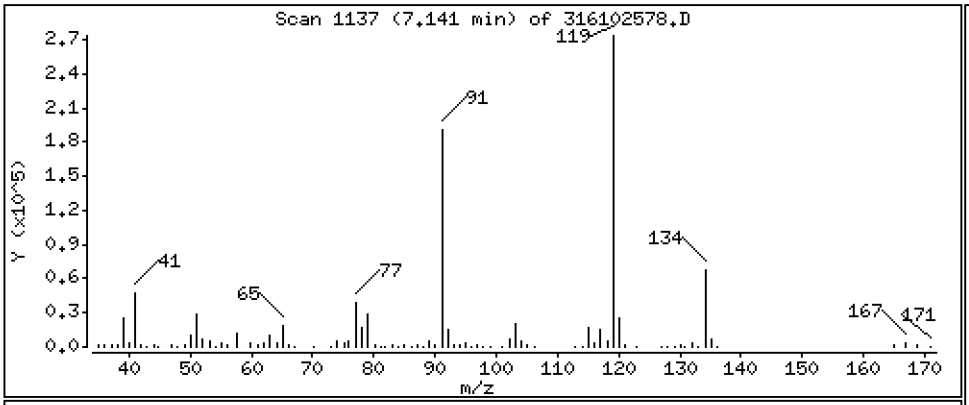
Client ID: 2184163001MSD Instrument: ms03.i

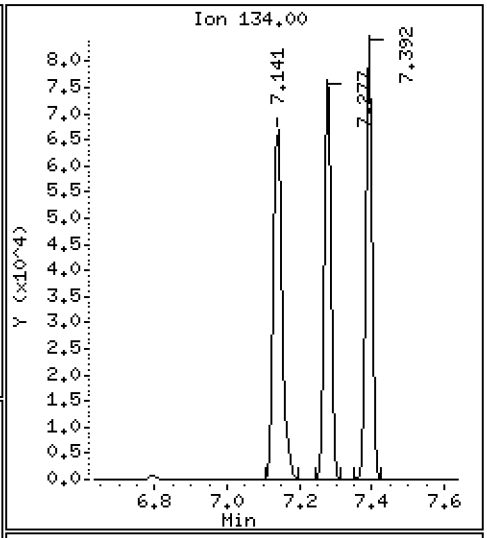
Sample Info: 2429374;;1;3;;MSD;1;

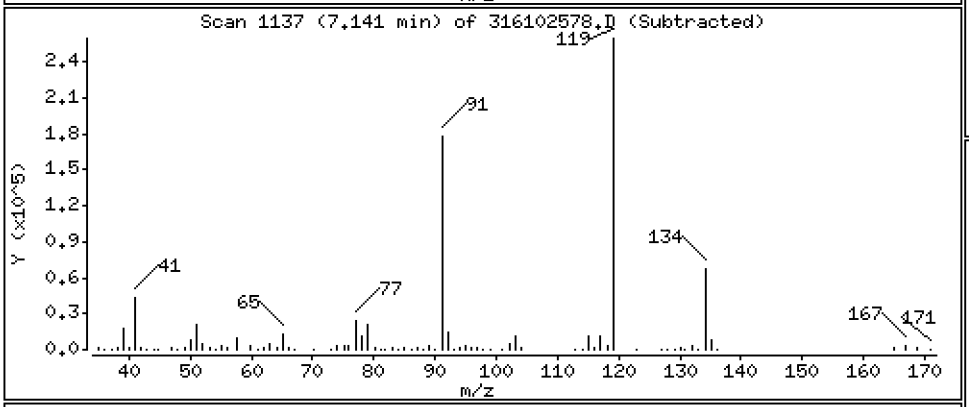
Purge Volume: 5.0 Operator: CJG

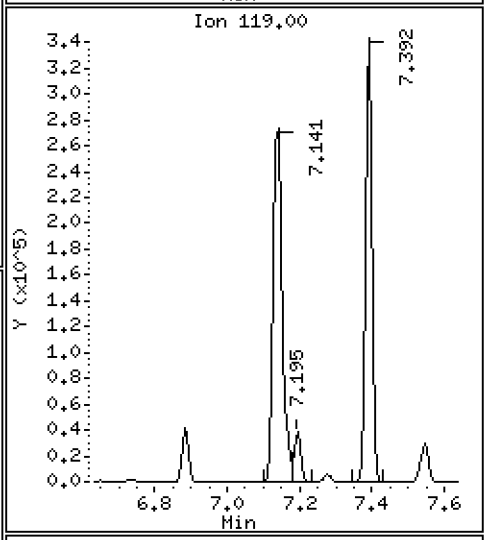
Column phase: DB-VRX Column diameter: 0.25

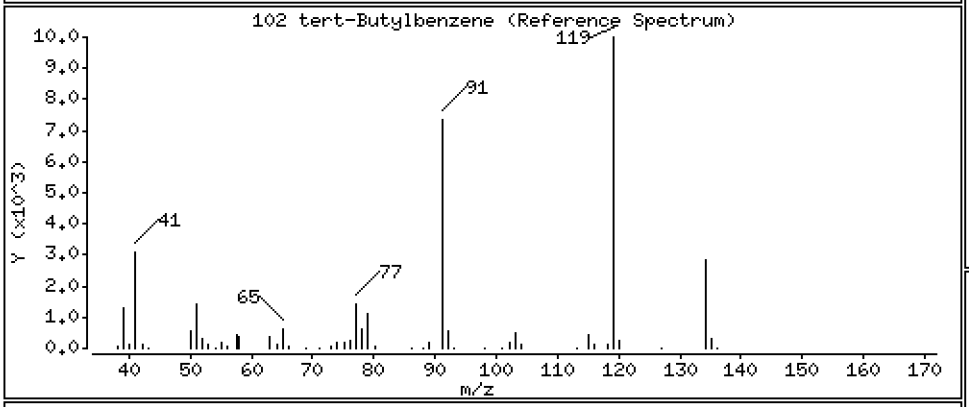
102 tert-Butylbenzene Concentration: 21.0199 ug/L

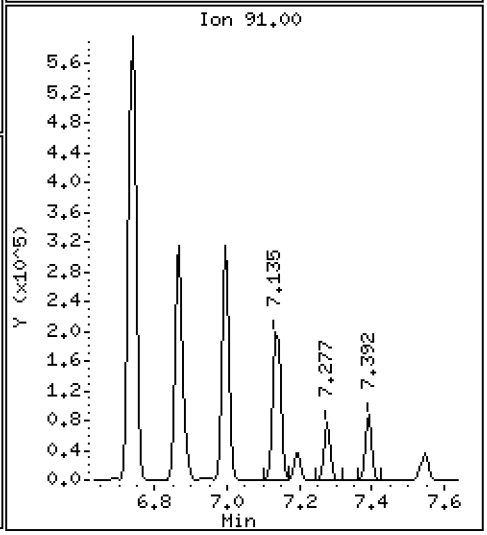


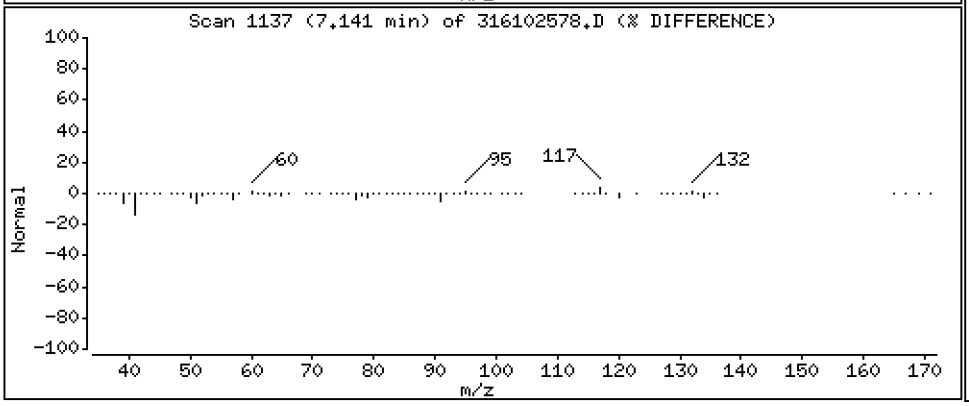












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 108

Date : 26-OCT-2016 07:52

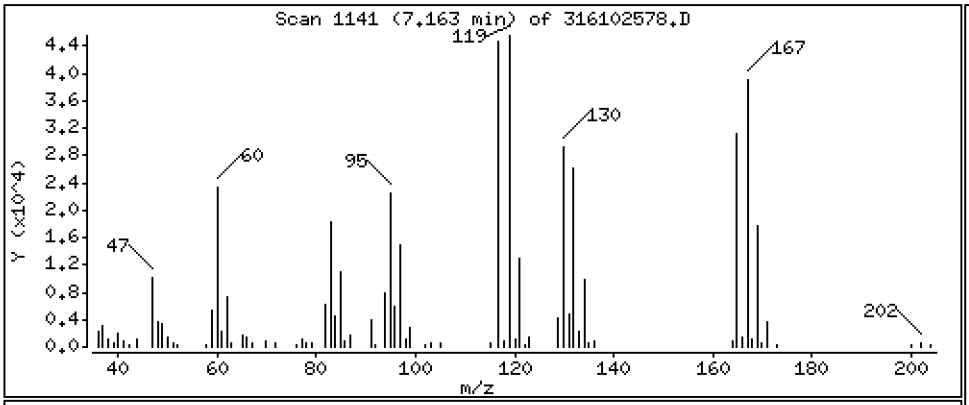
Client ID: 2184163001MSD Instrument: ms03.i

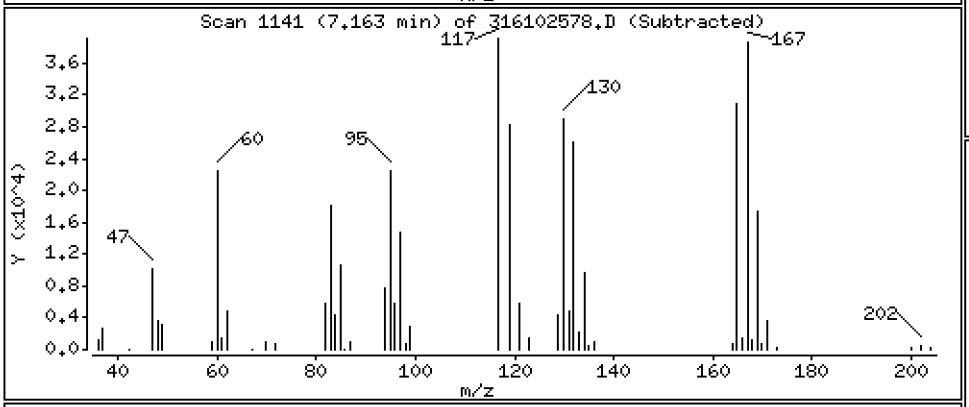
Sample Info: 2429374;;1;3;;MSD;1;

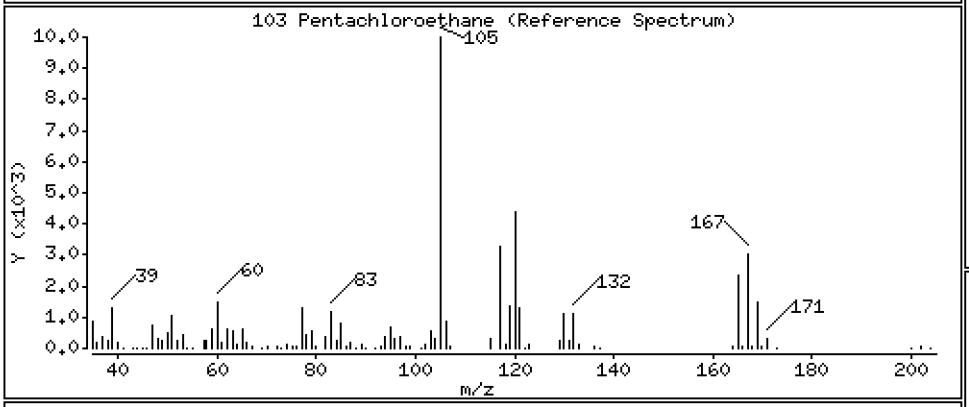
Purge Volume: 5.0 Operator: CJG

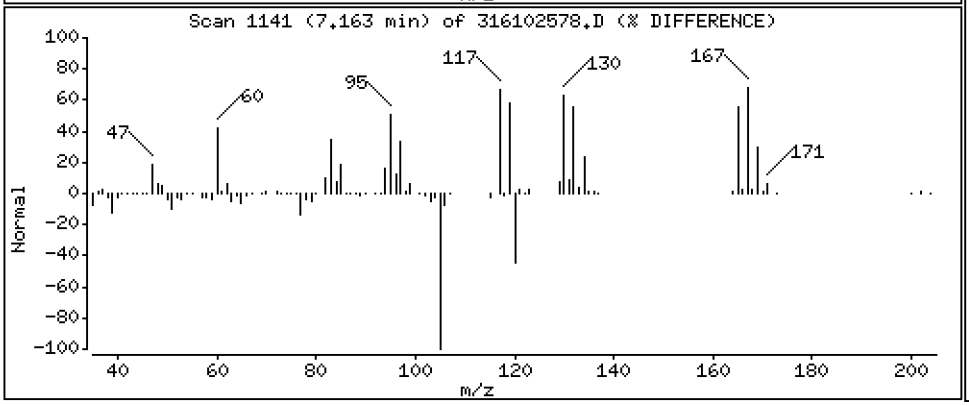
Column phase: DB-VRX Column diameter: 0.25

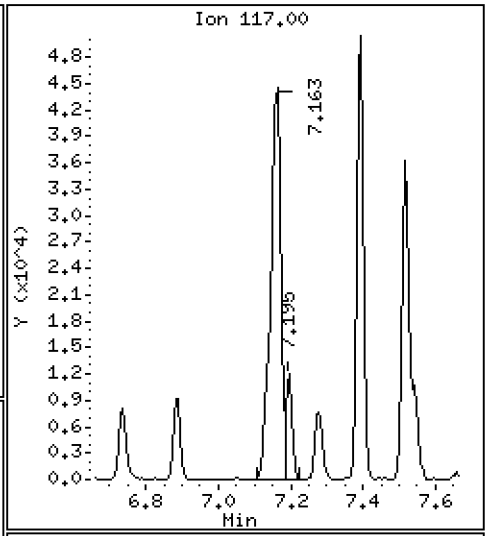
103 Pentachloroethane Concentration: 20.4208 ug/L

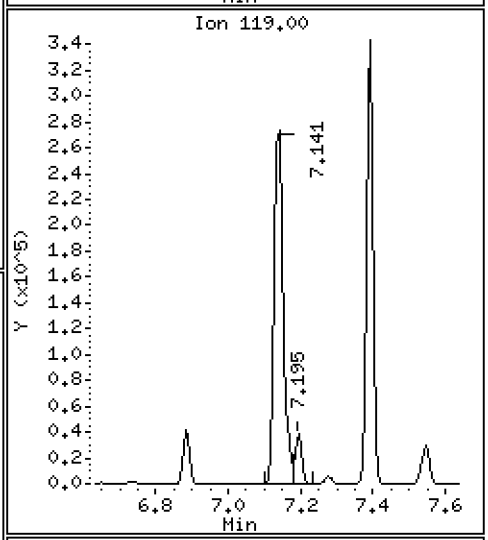


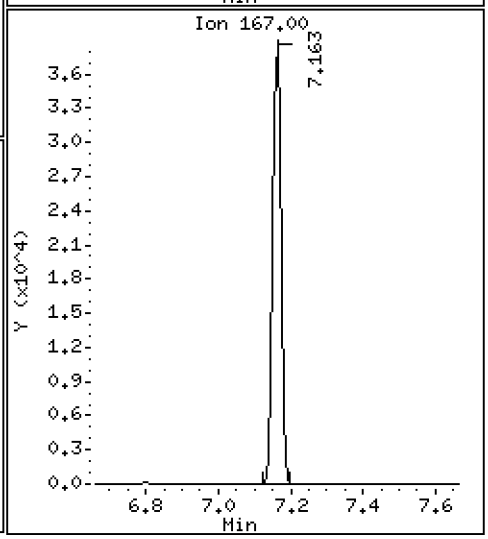












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 109

Date : 26-OCT-2016 07:52

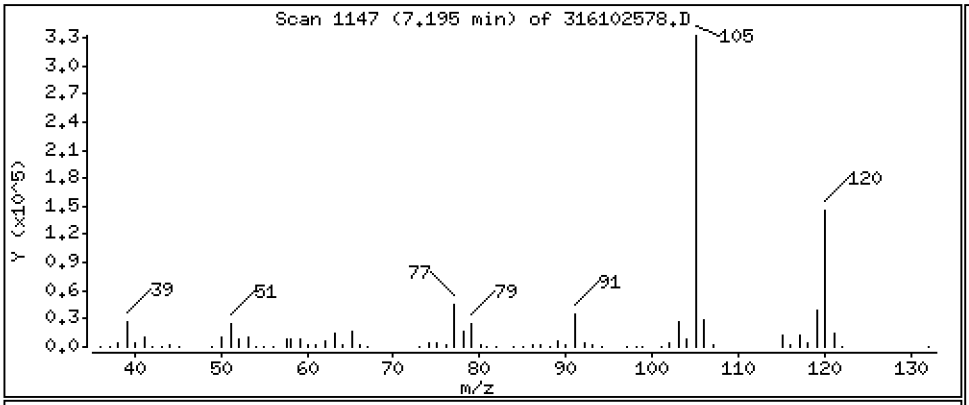
Client ID: 2184163001MSD Instrument: ms03.i

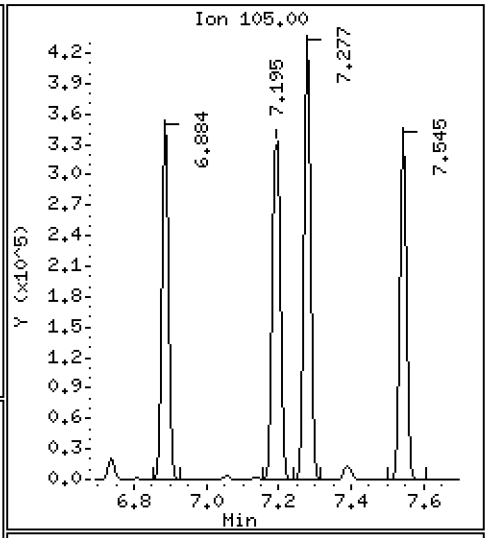
Sample Info: 2429374;;1;3;;MSD;1;

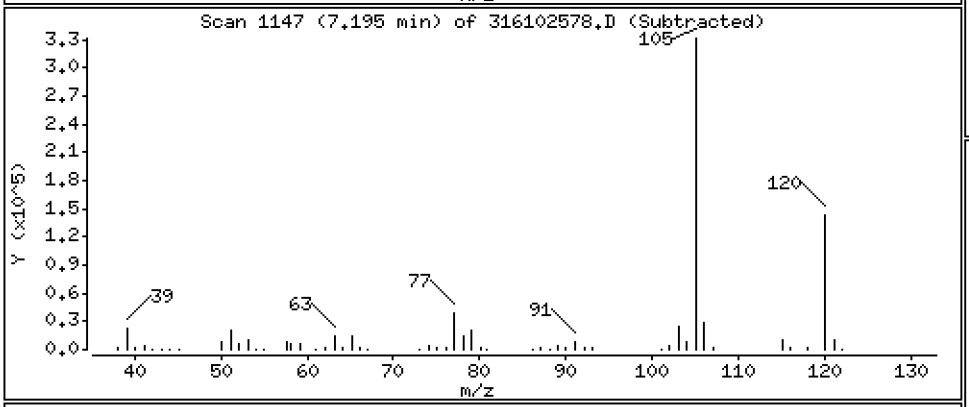
Purge Volume: 5.0 Operator: CJG

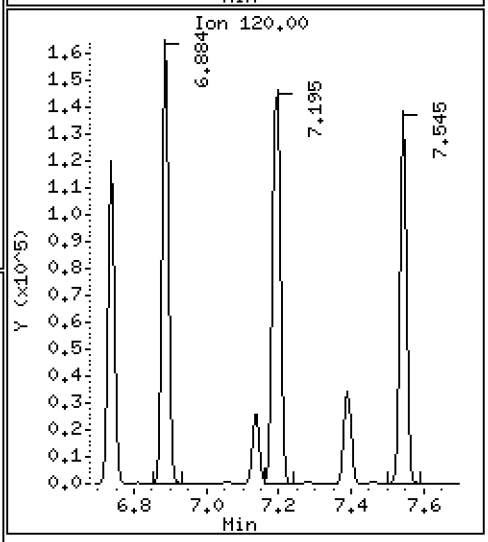
Column phase: DB-VRX Column diameter: 0.25

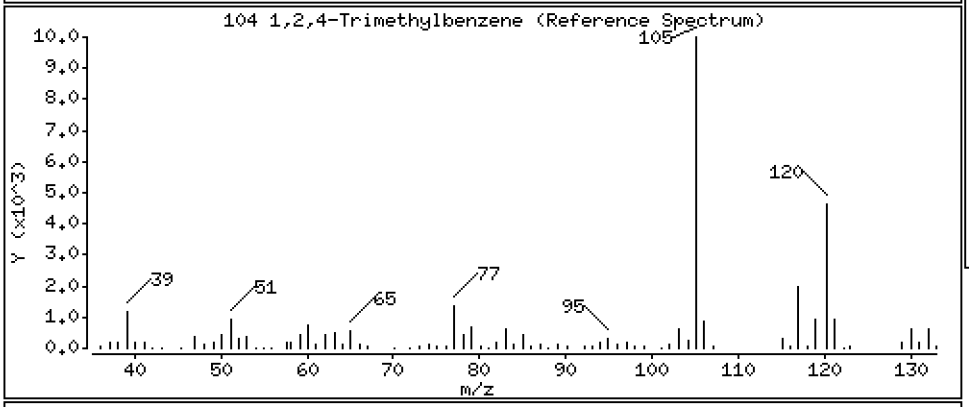
104 1,2,4-Trimethylbenzene Concentration: 21.8514 ug/L

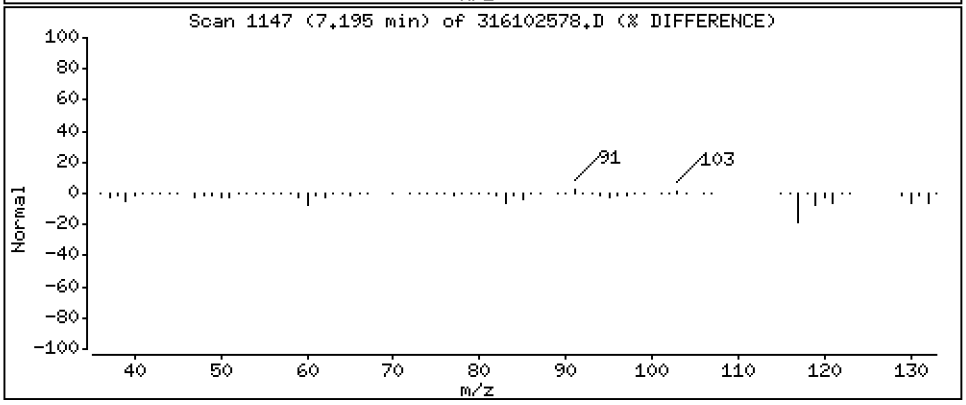












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 110

Date : 26-OCT-2016 07:52

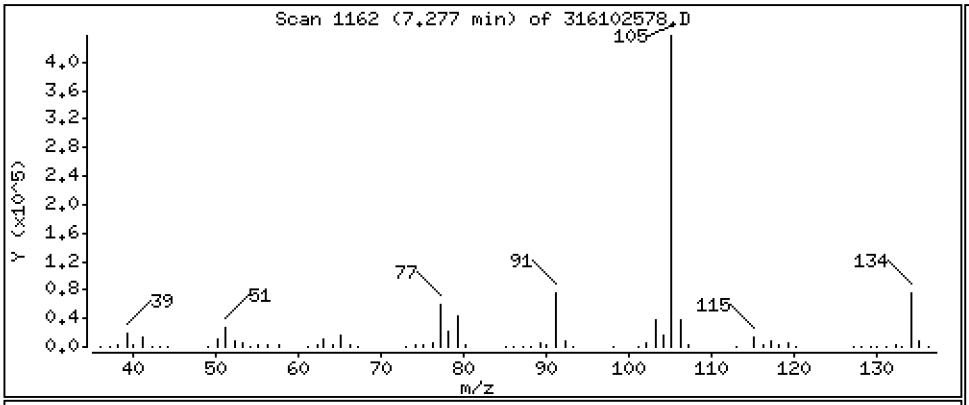
Client ID: 2184163001MSD Instrument: ms03.i

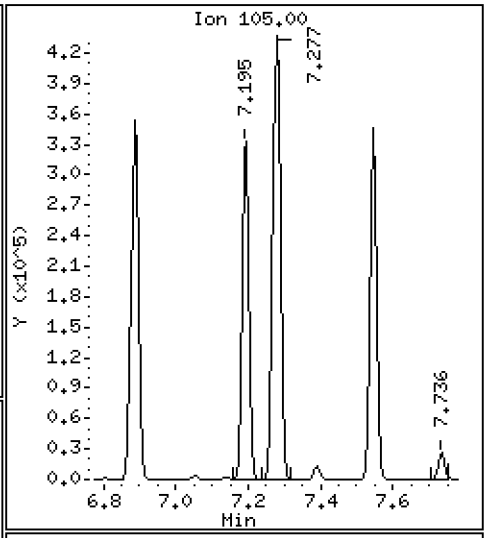
Sample Info: 2429374;;1;3;;MSD;1;

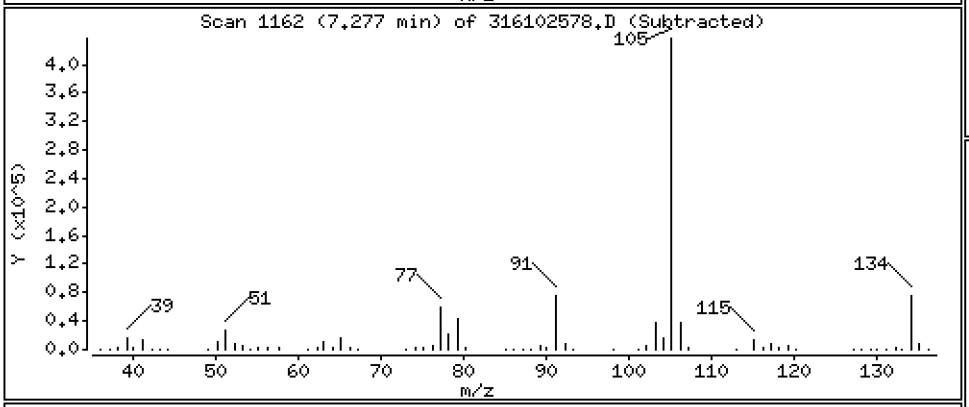
Purge Volume: 5.0 Operator: CJG

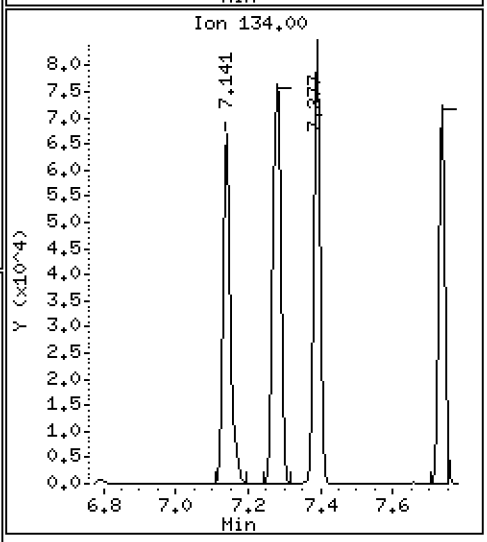
Column phase: DB-VRX Column diameter: 0.25

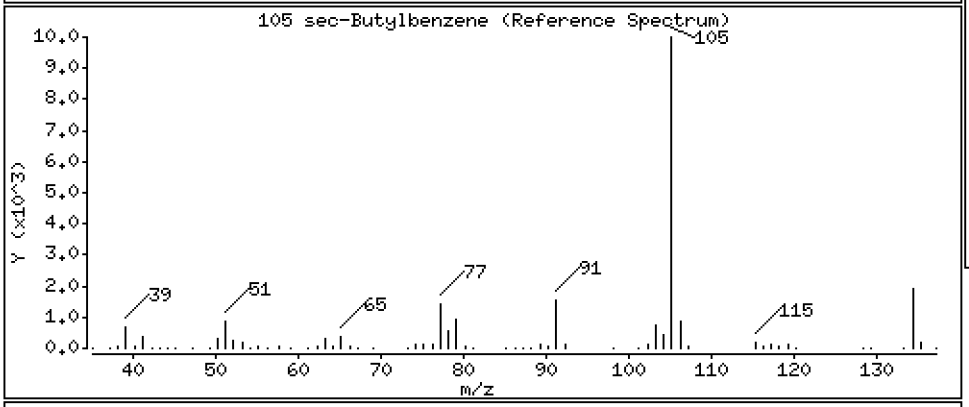
105 sec-Butylbenzene Concentration: 22.0673 ug/L

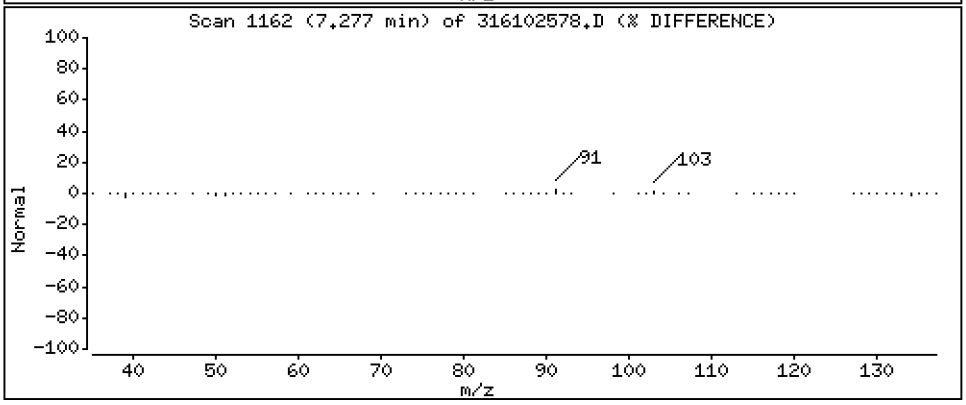












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 111

Date : 26-OCT-2016 07:52

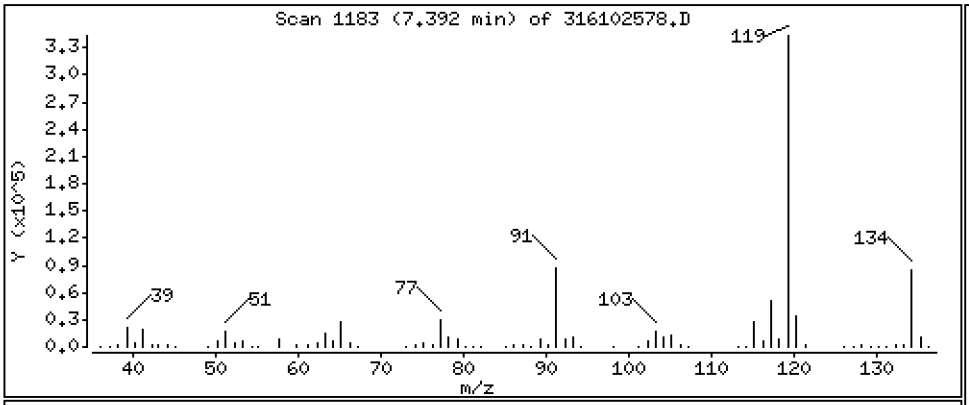
Client ID: 2184163001MSD Instrument: ms03.i

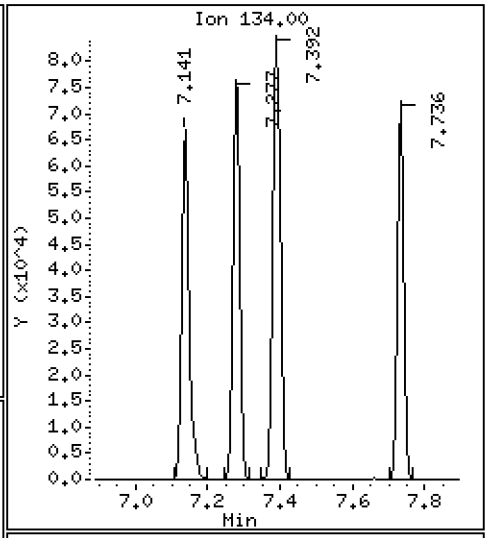
Sample Info: 2429374;;1;3;;MSD;1;

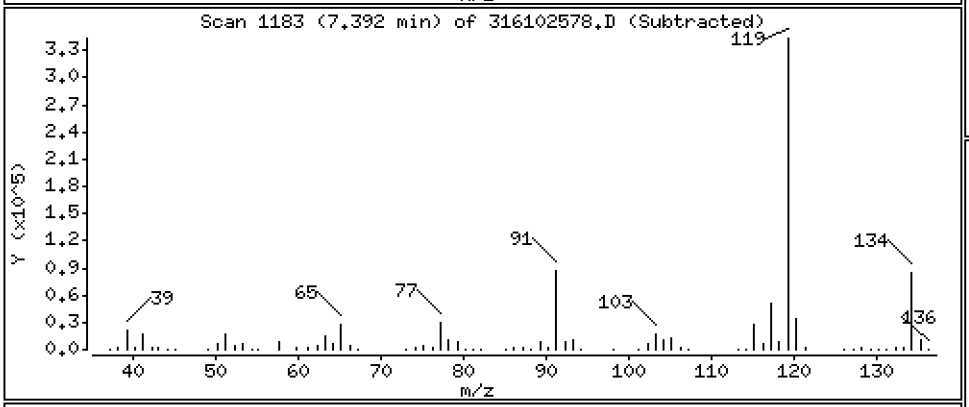
Purge Volume: 5.0 Operator: CJG

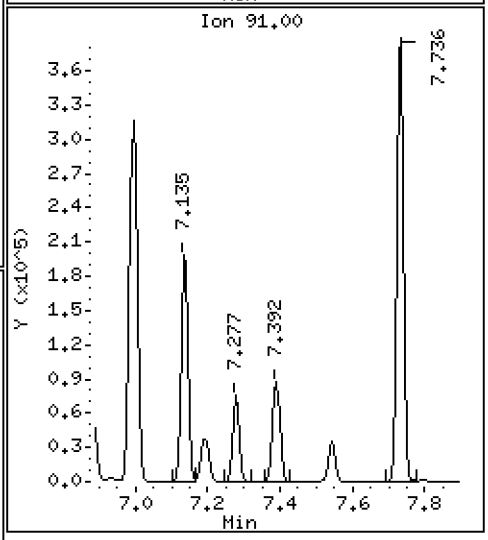
Column phase: DB-VRX Column diameter: 0.25

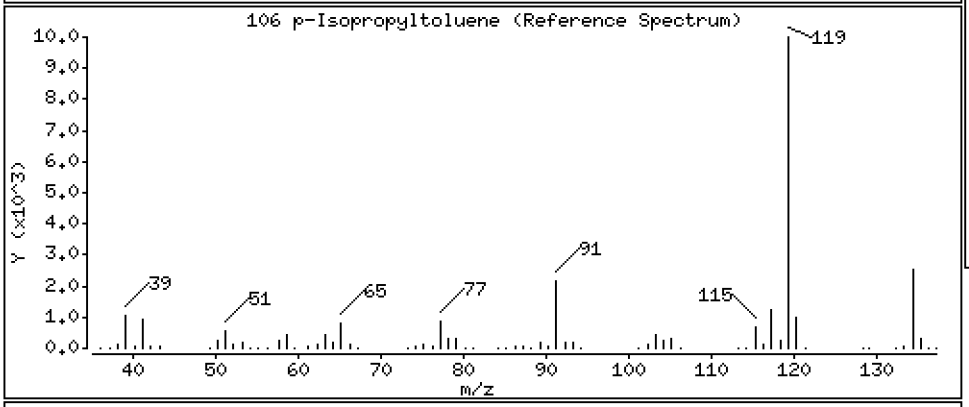
106 p-Isopropyltoluene Concentration: 21.3636 ug/L

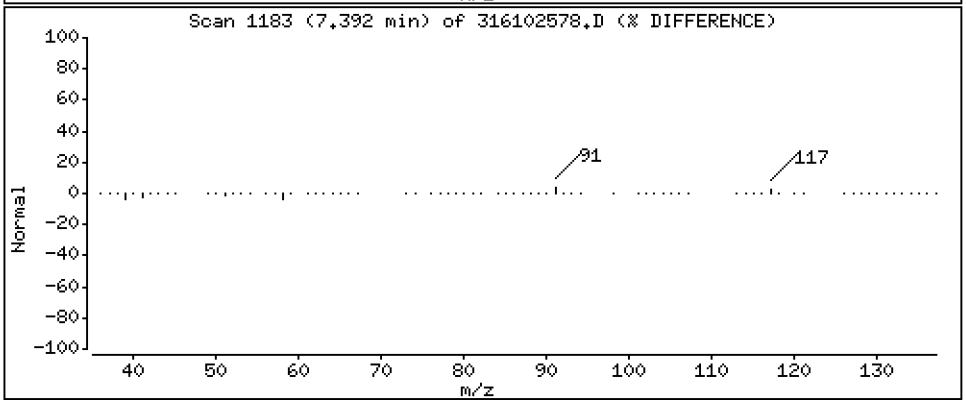












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 112

Date : 26-OCT-2016 07:52

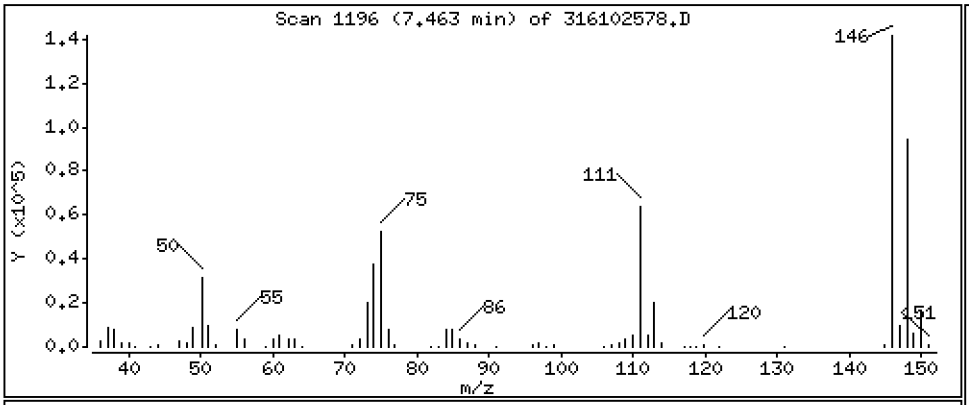
Client ID: 2184163001MSD Instrument: ms03.i

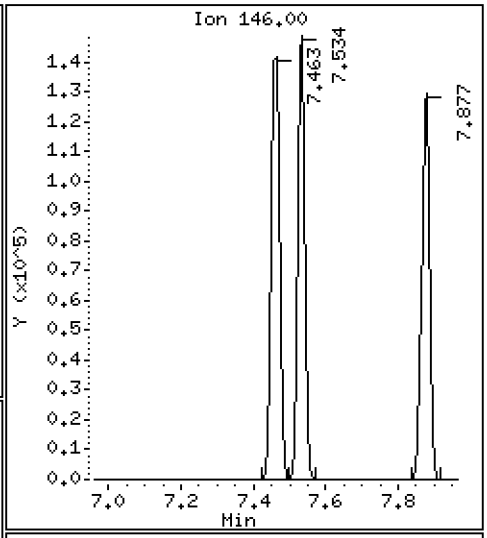
Sample Info: 2429374;;1;3;;MSD;1;

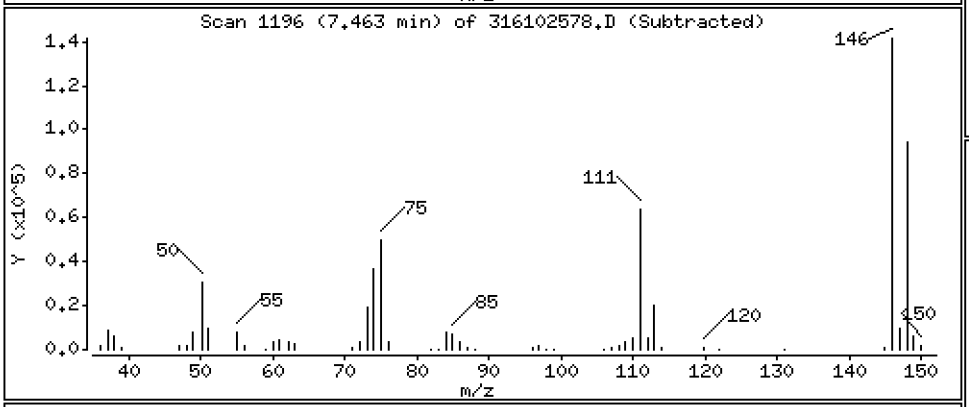
Purge Volume: 5.0 Operator: CJG

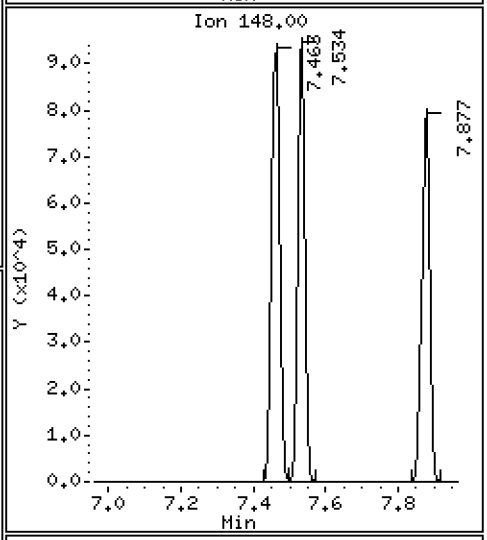
Column phase: DB-VRX Column diameter: 0.25

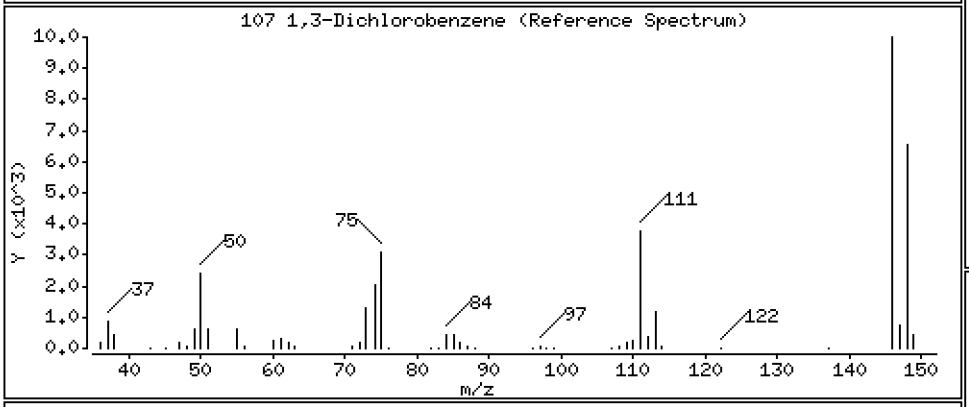
107 1,3-Dichlorobenzene Concentration: 20.7721 ug/L

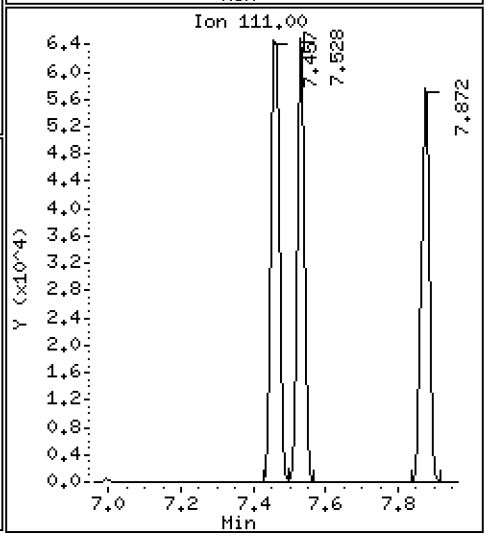


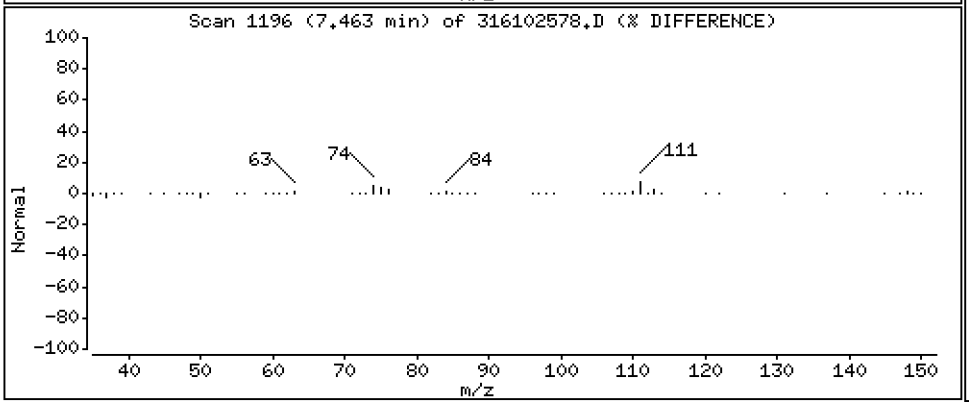












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 113

Date : 26-OCT-2016 07:52

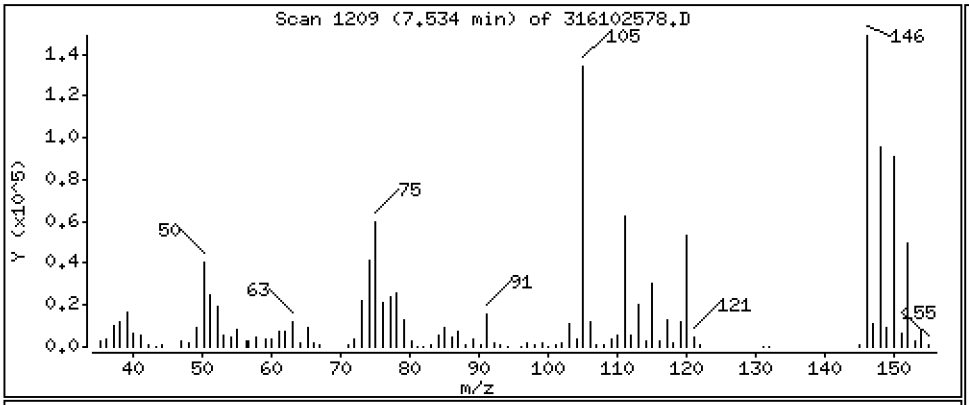
Client ID: 2184163001MSD Instrument: ms03.i

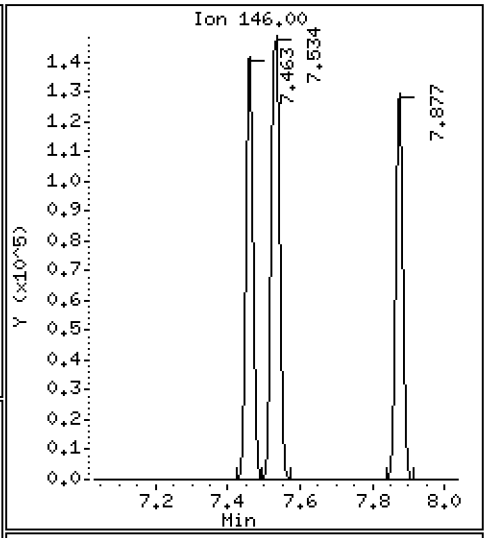
Sample Info: 2429374;;1;3;;MSD;1;

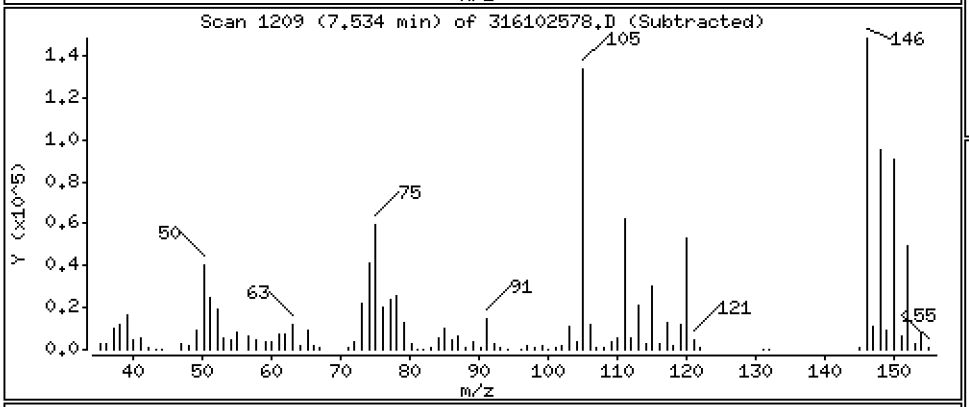
Purge Volume: 5.0 Operator: CJG

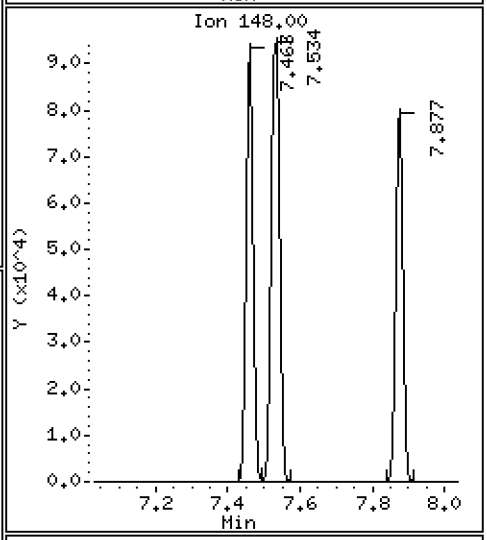
Column phase: DB-VRX Column diameter: 0.25

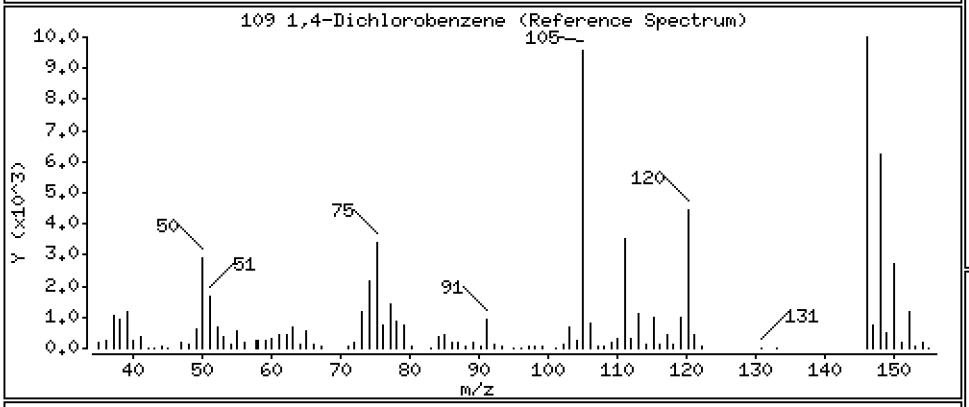
109 1,4-Dichlorobenzene Concentration: 21.1829 ug/L

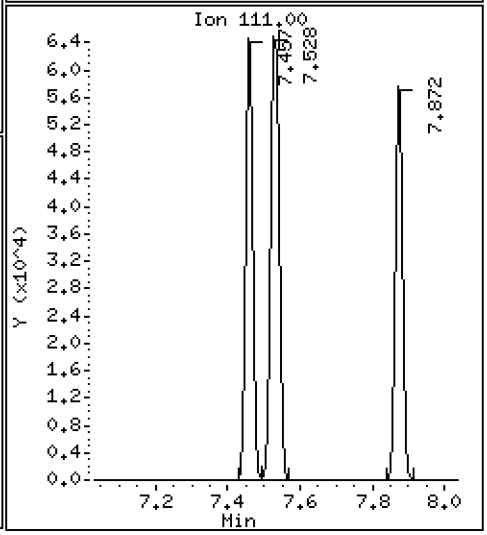


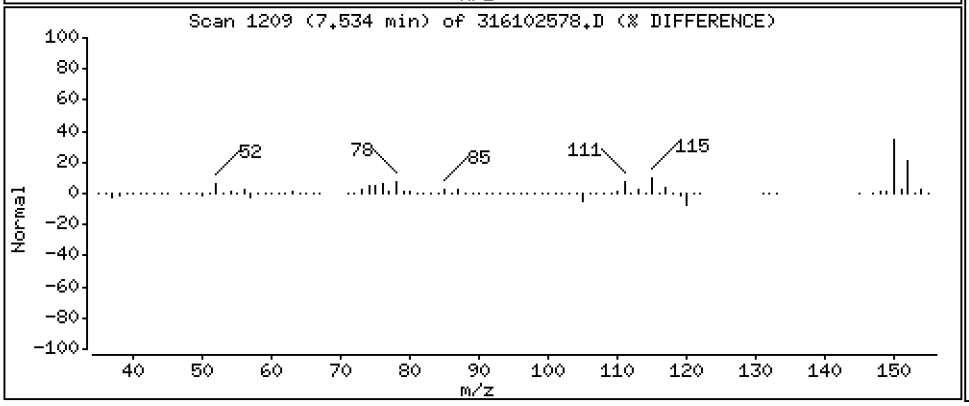












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 114

Date : 26-OCT-2016 07:52

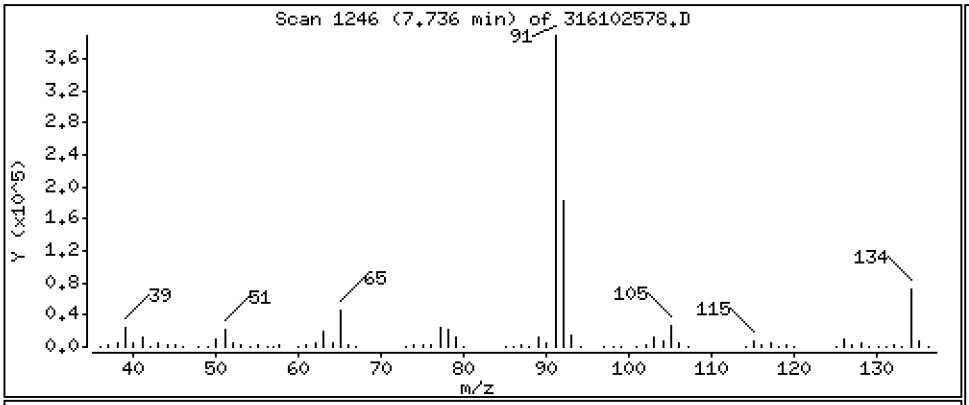
Client ID: 2184163001MSD Instrument: ms03.i

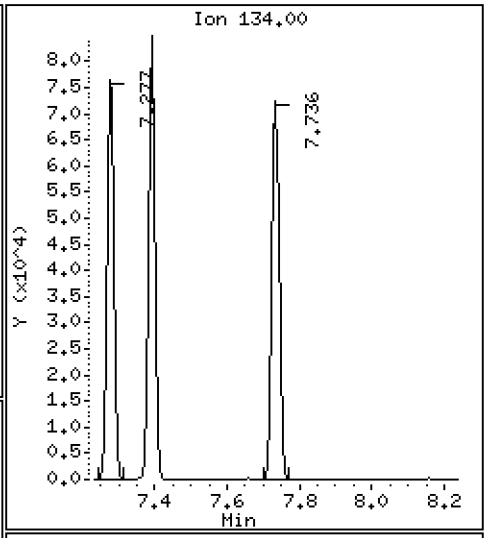
Sample Info: 2429374;;1;3;;MSD;1;

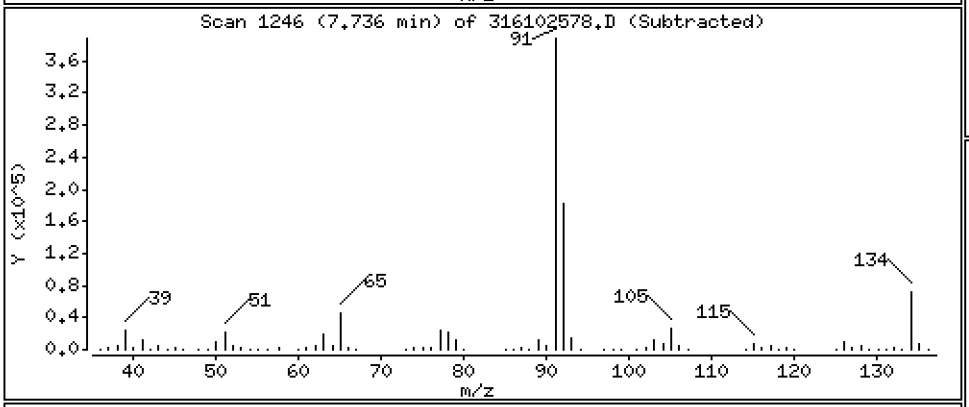
Purge Volume: 5.0 Operator: CJG

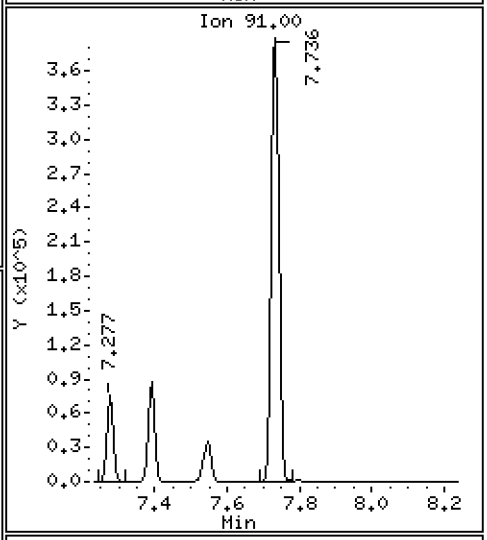
Column phase: DB-VRX Column diameter: 0.25

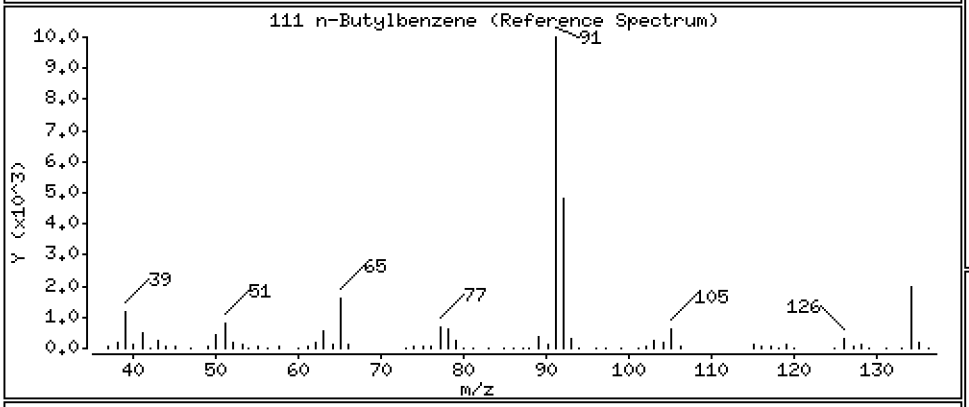
111 n-Butylbenzene Concentration: 20.6498 ug/L

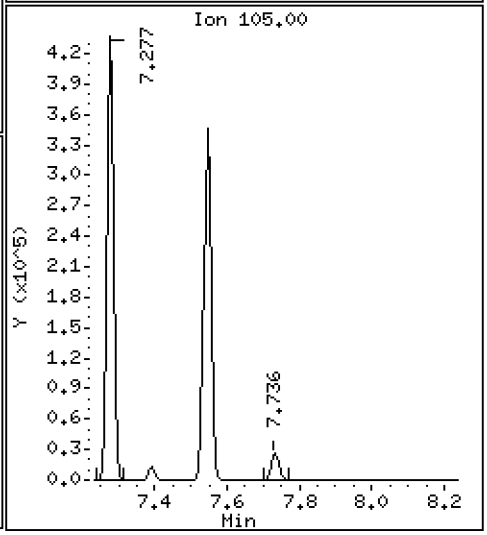


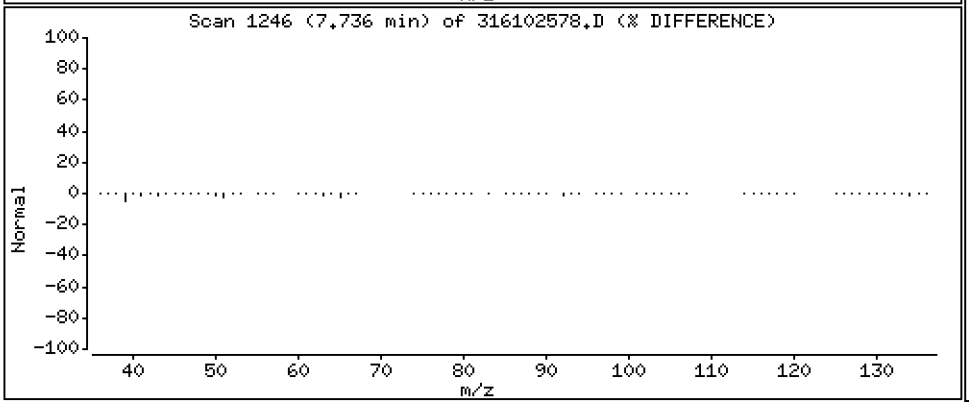












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 115

Date : 26-OCT-2016 07:52

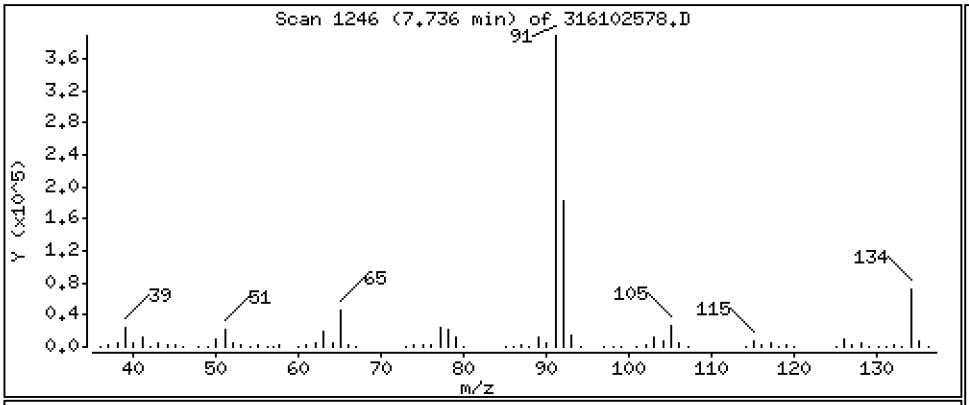
Client ID: 2184163001MSD Instrument: ms03.i

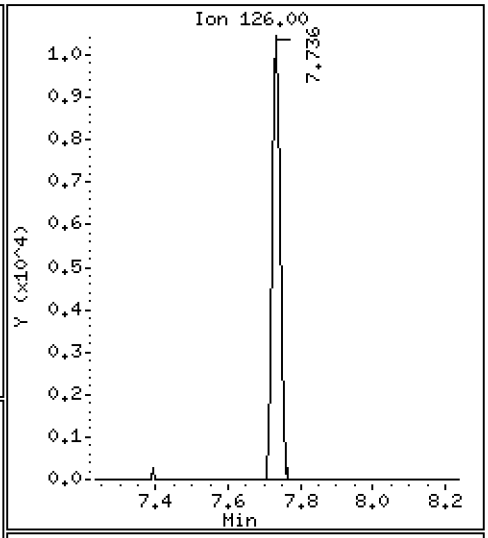
Sample Info: 2429374;;1;3;;MSD;1;

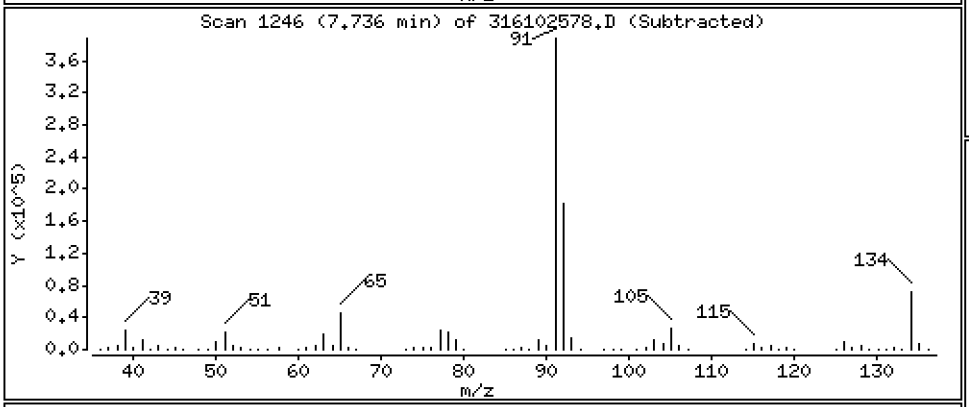
Purge Volume: 5.0 Operator: CJG

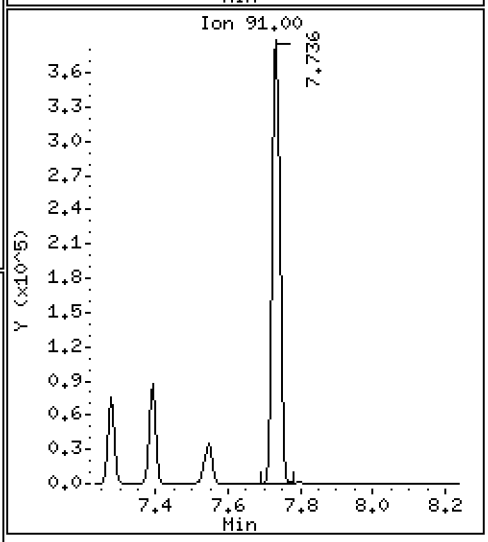
Column phase: DB-VRX Column diameter: 0.25

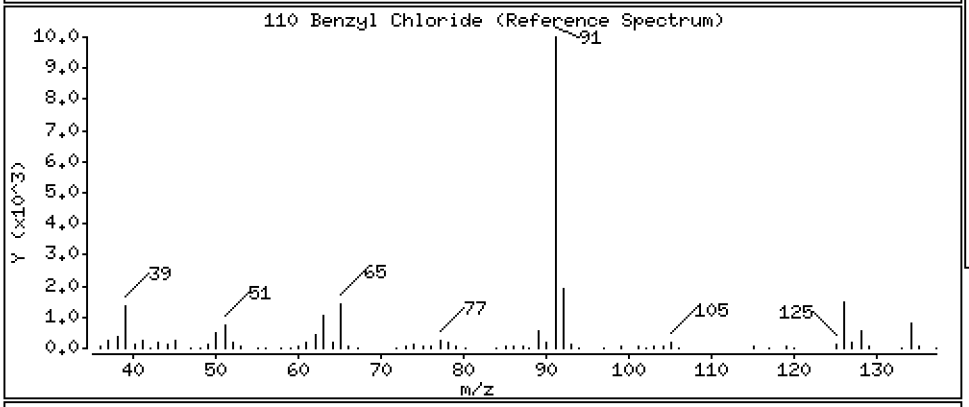
110 Benzyl Chloride Concentration: 11.2430 ug/L

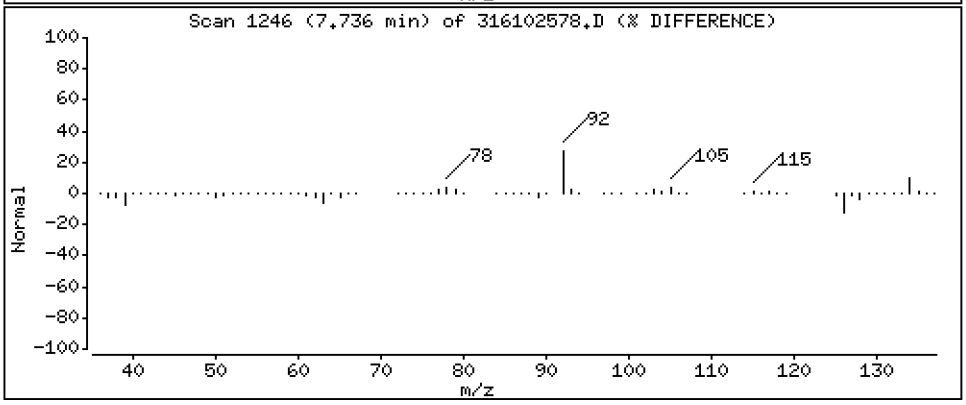












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 116

Date : 26-OCT-2016 07:52

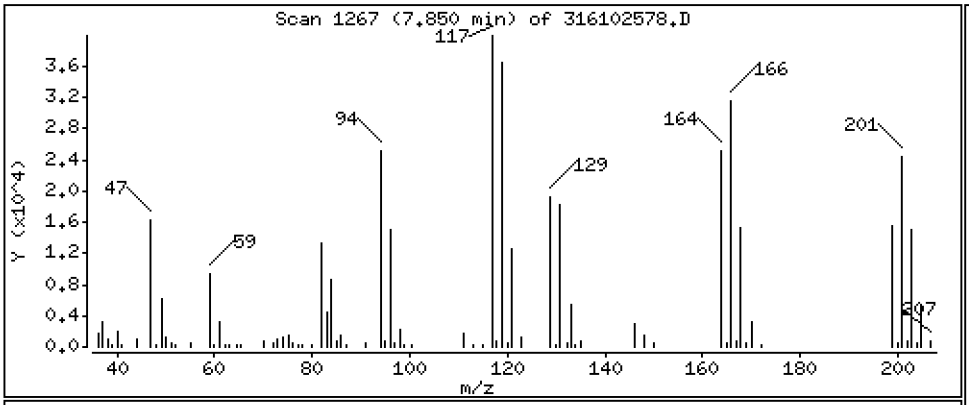
Client ID: 2184163001MSD Instrument: ms03.i

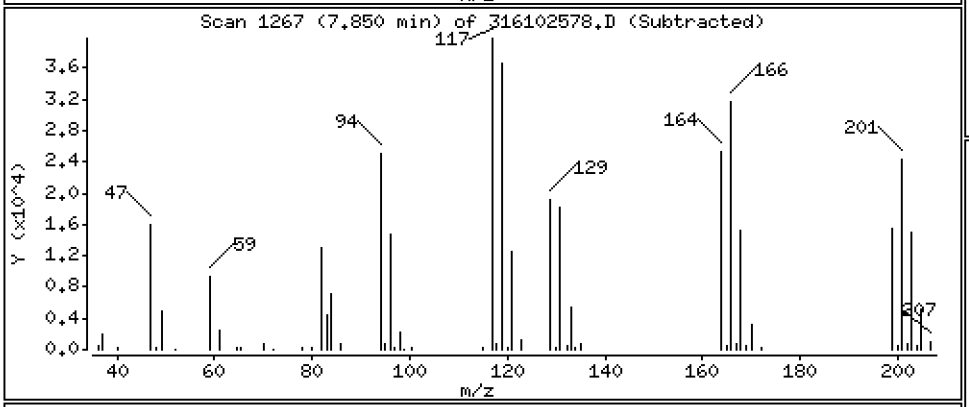
Sample Info: 2429374;;1;3;;MSD;1;

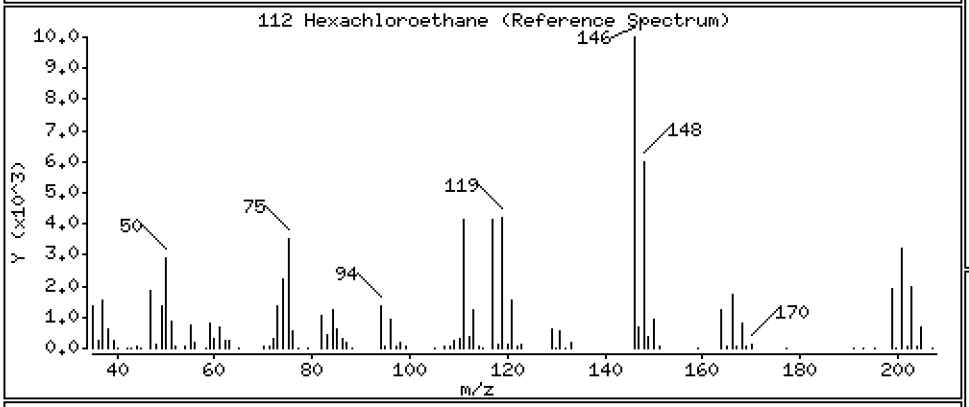
Purge Volume: 5.0 Operator: CJG

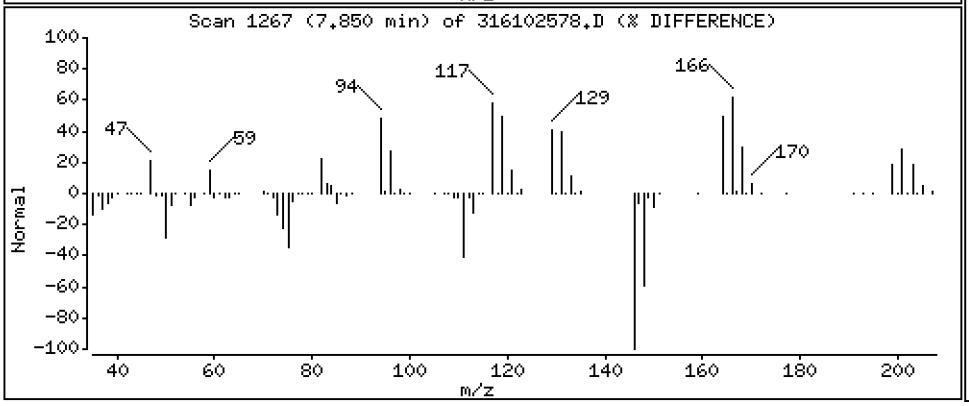
Column phase: DB-VRX Column diameter: 0.25

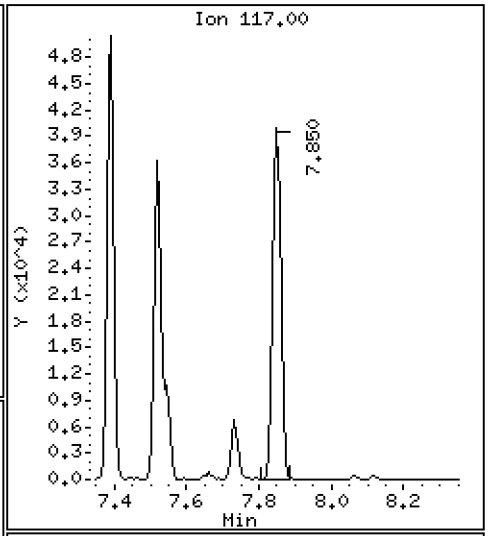
112 Hexachloroethane Concentration: 18.4996 ug/L

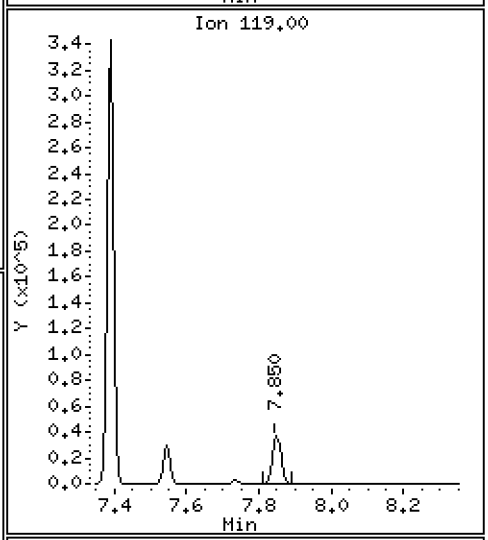


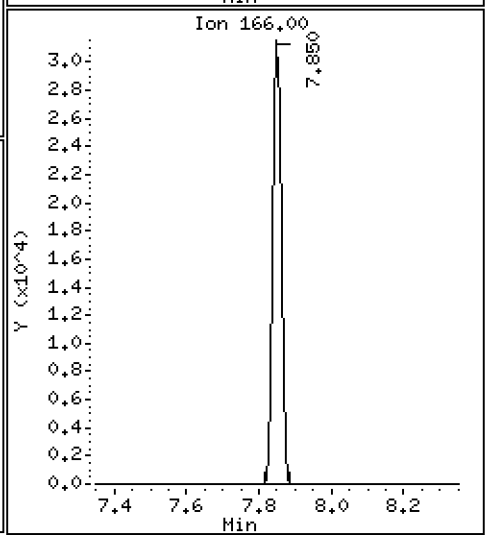












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 117

Date : 26-OCT-2016 07:52

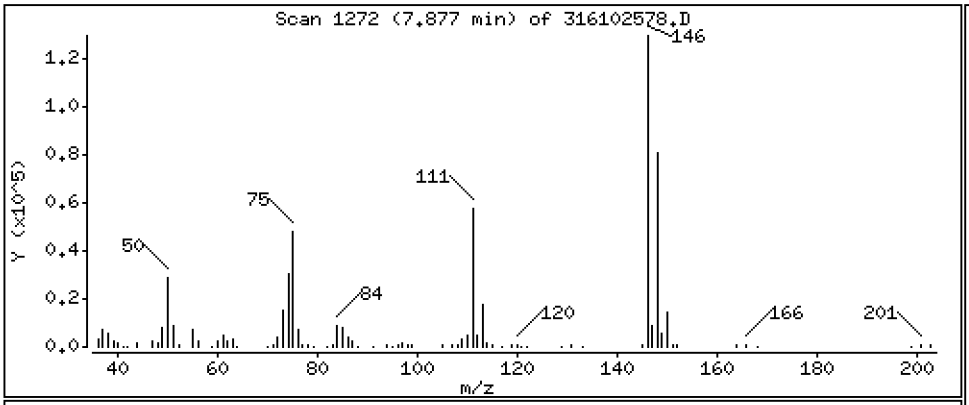
Client ID: 2184163001MSD Instrument: ms03.i

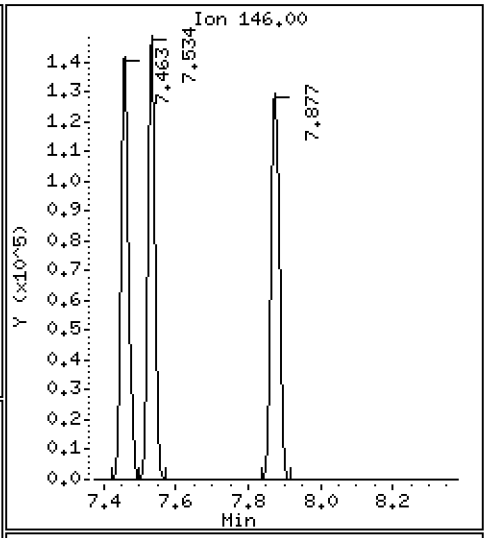
Sample Info: 2429374;;1;3;;MSD;1;

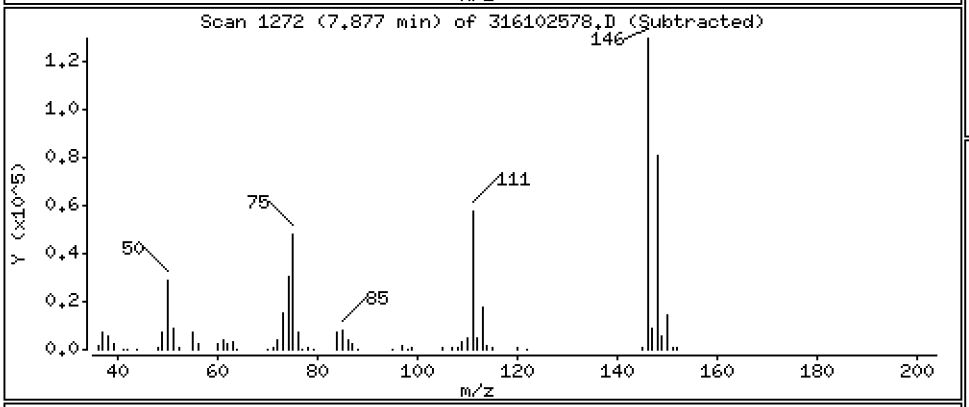
Purge Volume: 5.0 Operator: CJG

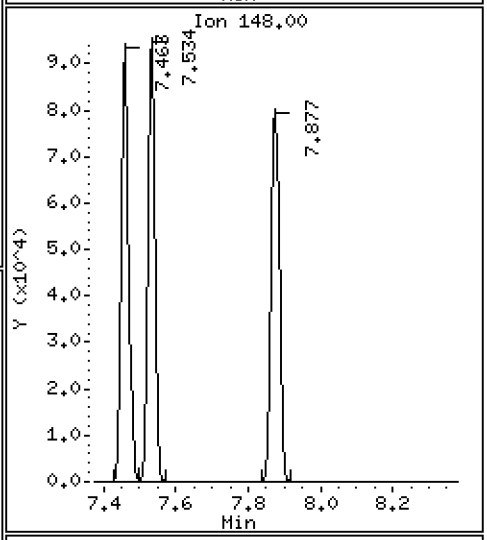
Column phase: DB-VRX Column diameter: 0.25

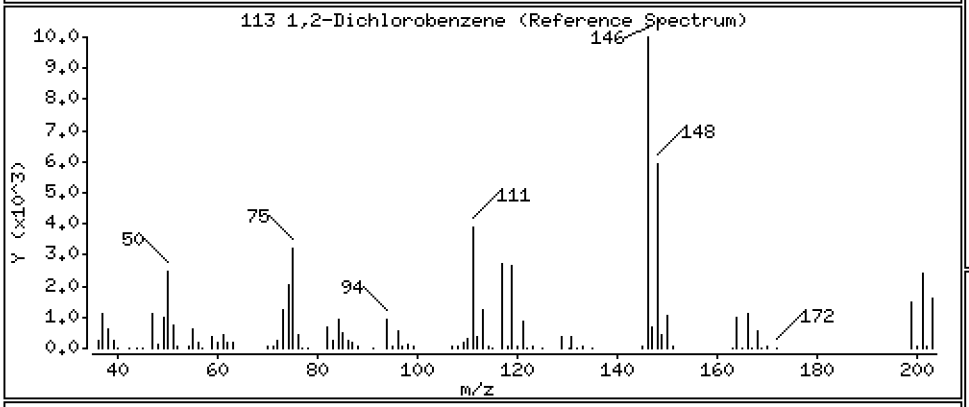
113 1,2-Dichlorobenzene Concentration: 21.0240 ug/L

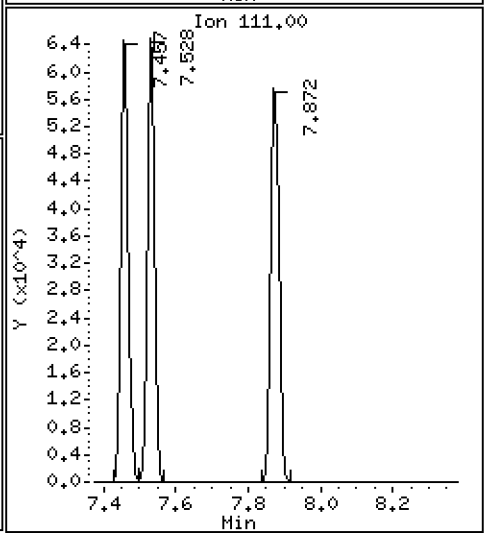


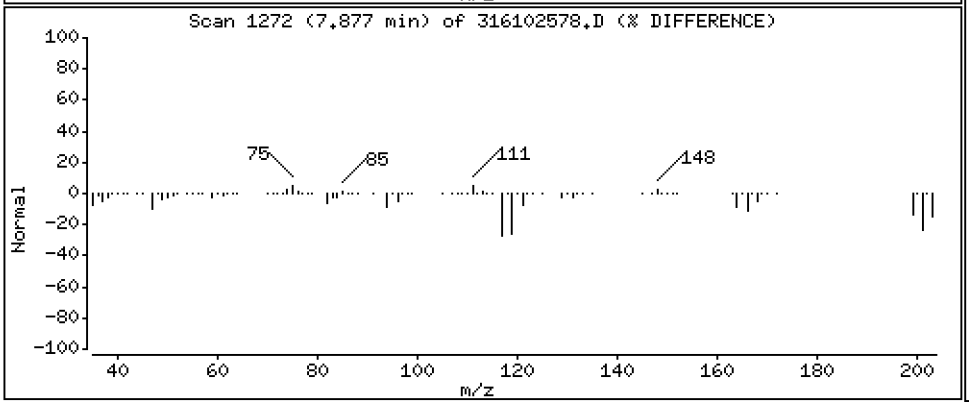












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 118

Date : 26-OCT-2016 07:52

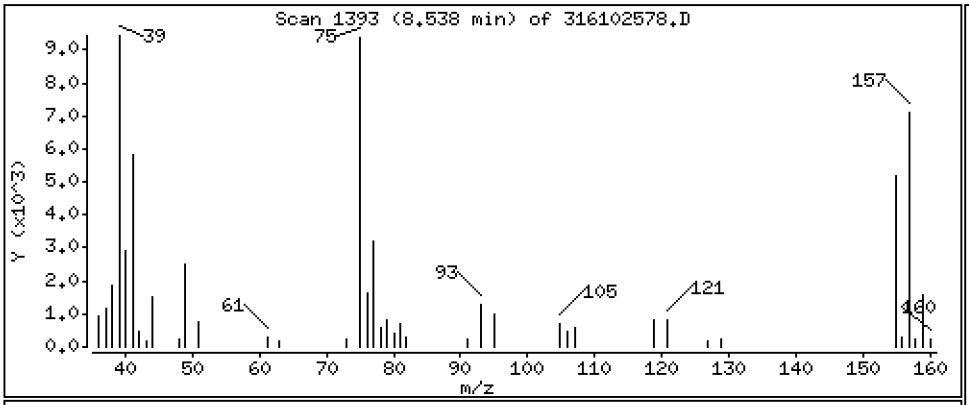
Client ID: 2184163001MSD Instrument: ms03.i

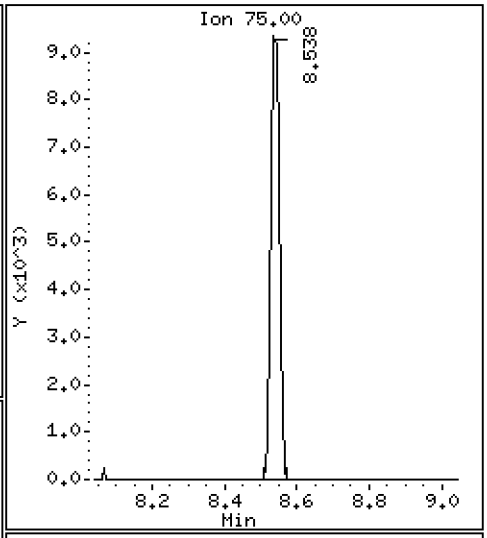
Sample Info: 2429374;;1;3;;MSD;1;

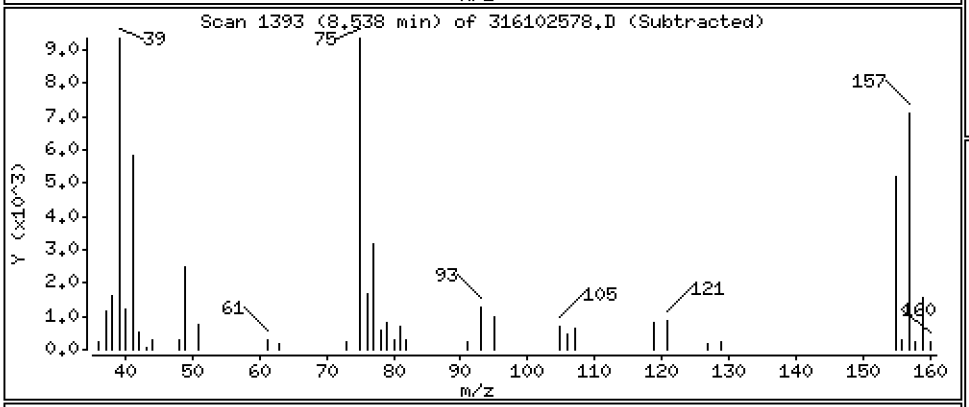
Purge Volume: 5.0 Operator: CJG

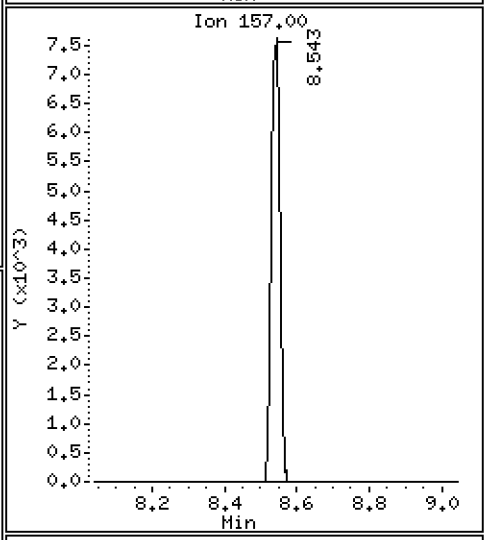
Column phase: DB-VRX Column diameter: 0.25

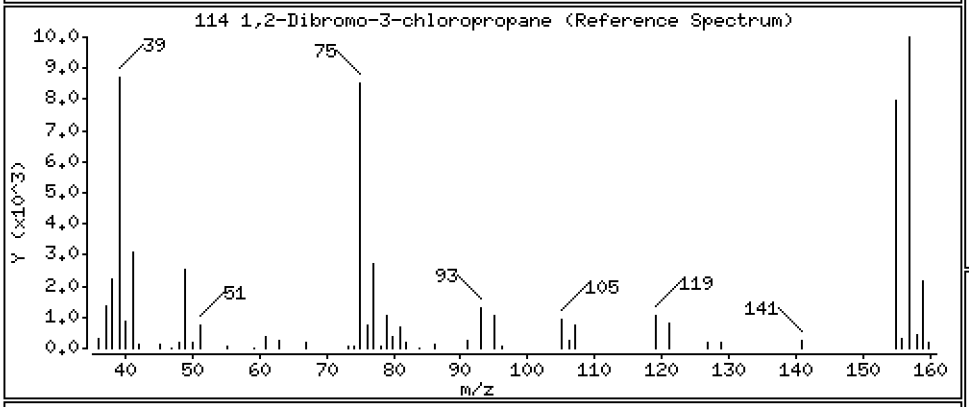
114 1,2-Dibromo-3-chloropropane Concentration: 19.0386 ug/L

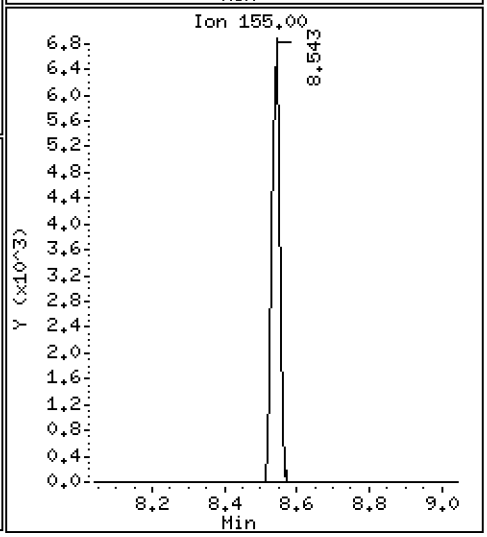


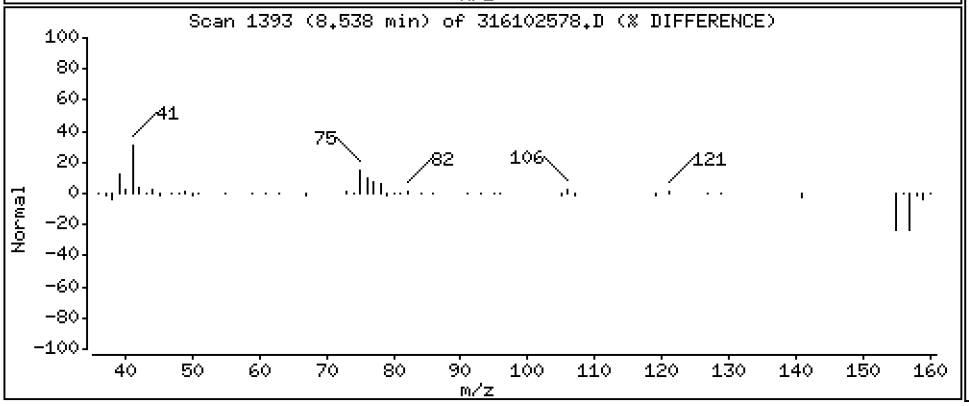












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 119

Date : 26-OCT-2016 07:52

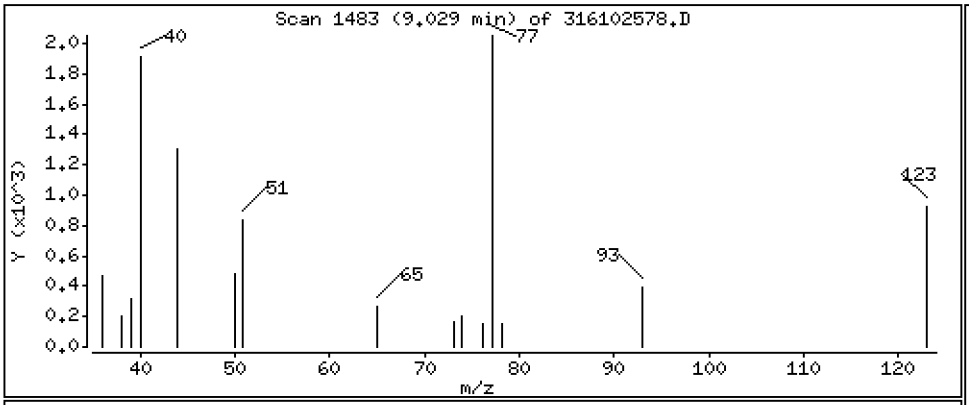
Client ID: 2184163001MSD Instrument: ms03.i

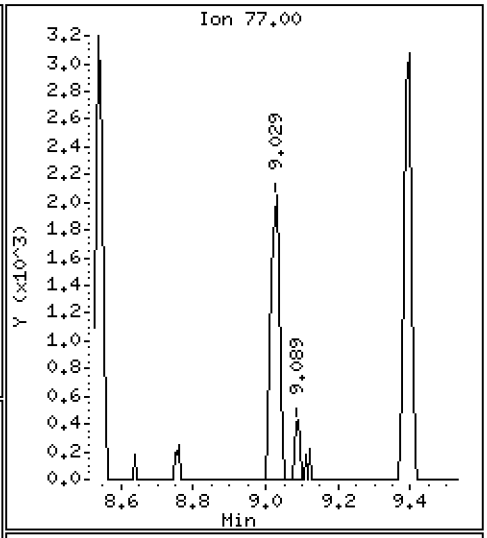
Sample Info: 2429374;;1;3;;MSD;1;

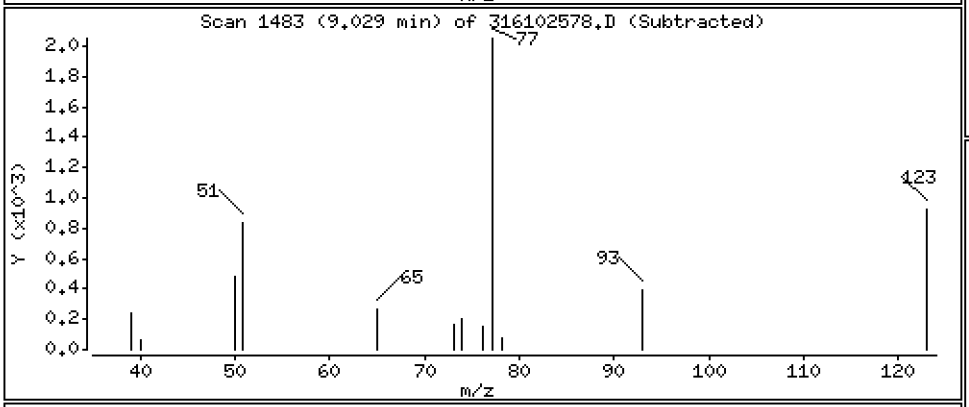
Purge Volume: 5.0 Operator: CJG

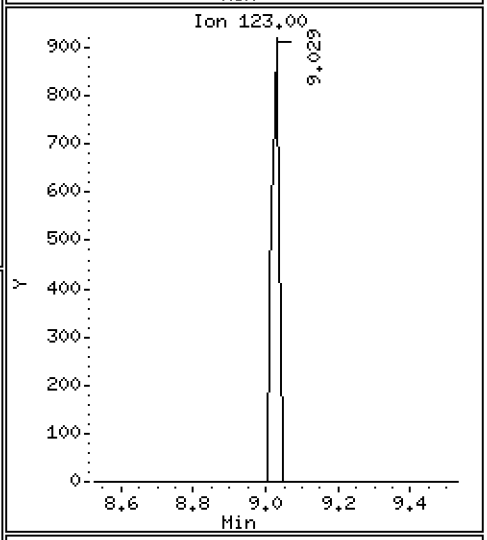
Column phase: DB-VRX Column diameter: 0.25

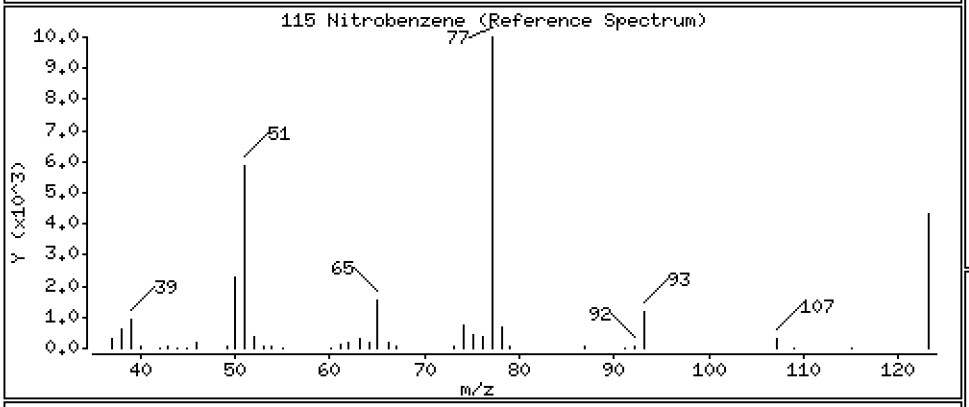
115 Nitrobenzene Concentration: 265.551 ug/L

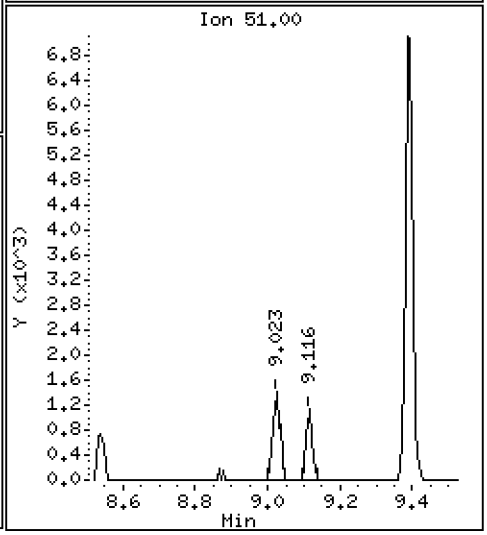


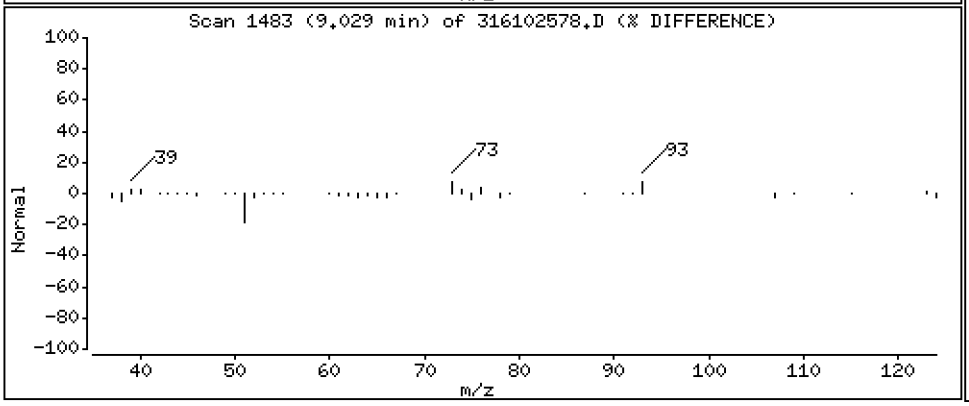












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 120

Date : 26-OCT-2016 07:52

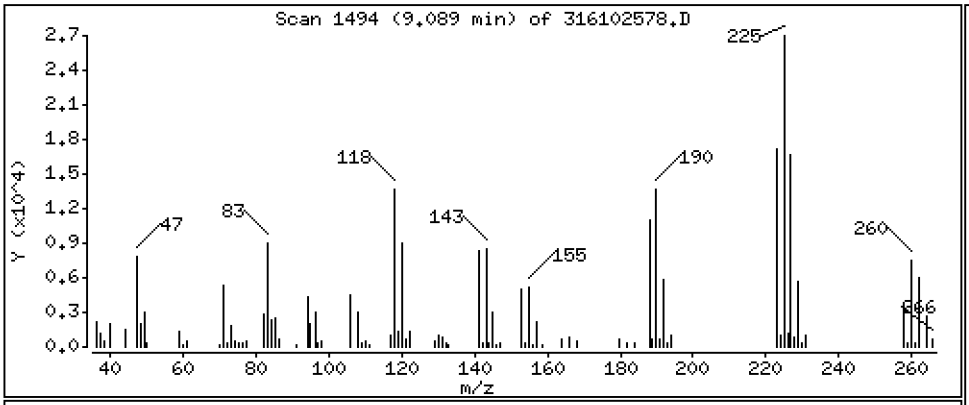
Client ID: 2184163001MSD Instrument: ms03.i

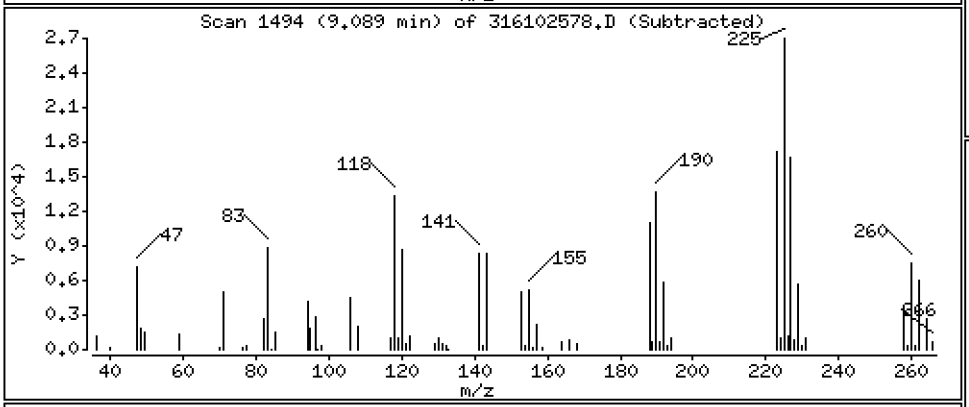
Sample Info: 2429374;;1;3;;MSD;1;

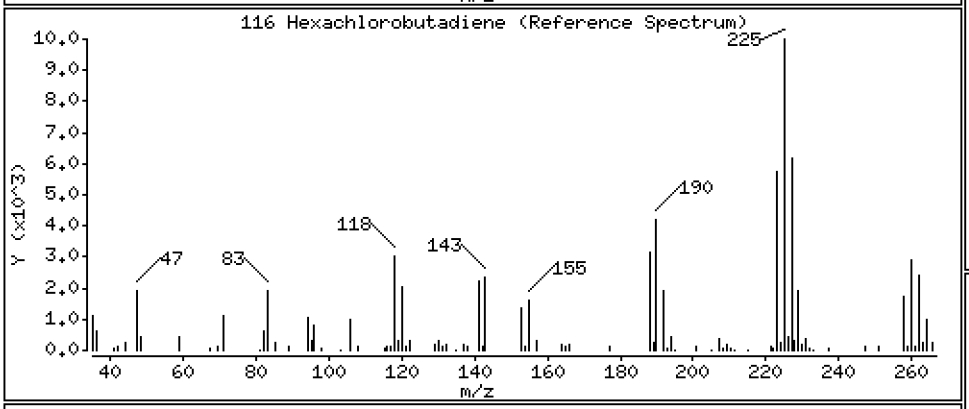
Purge Volume: 5.0 Operator: CJG

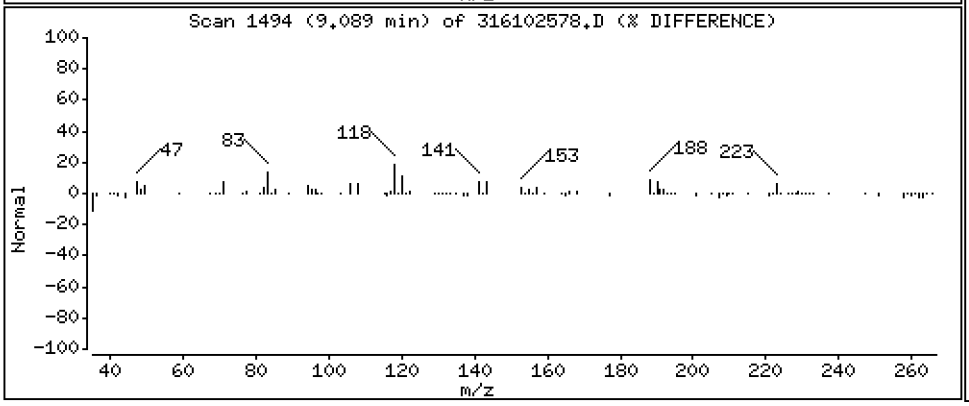
Column phase: DB-VRX Column diameter: 0.25

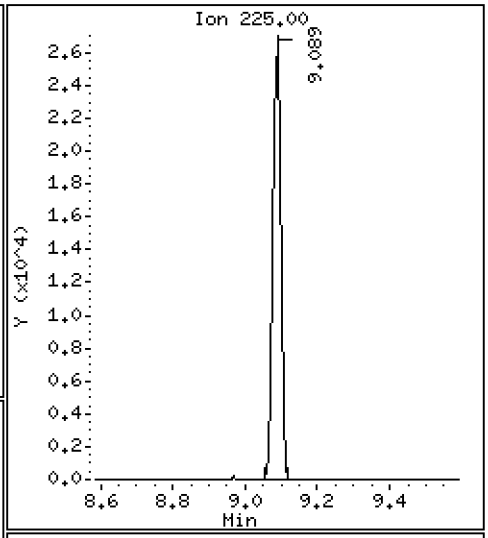
116 Hexachlorobutadiene Concentration: 21.4480 ug/L

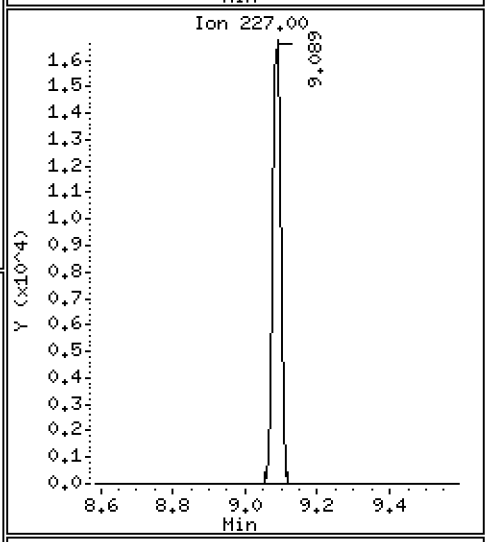


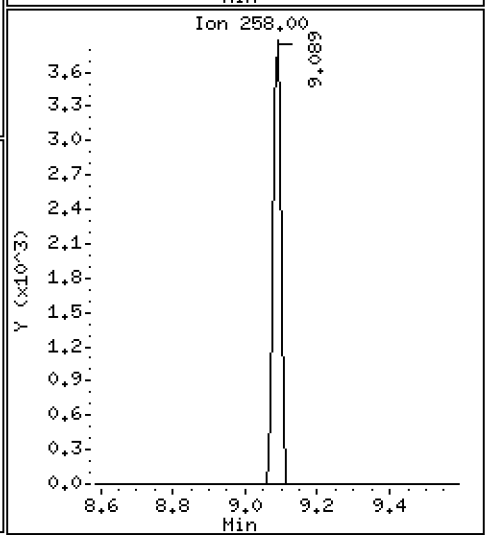












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 121

Date : 26-OCT-2016 07:52

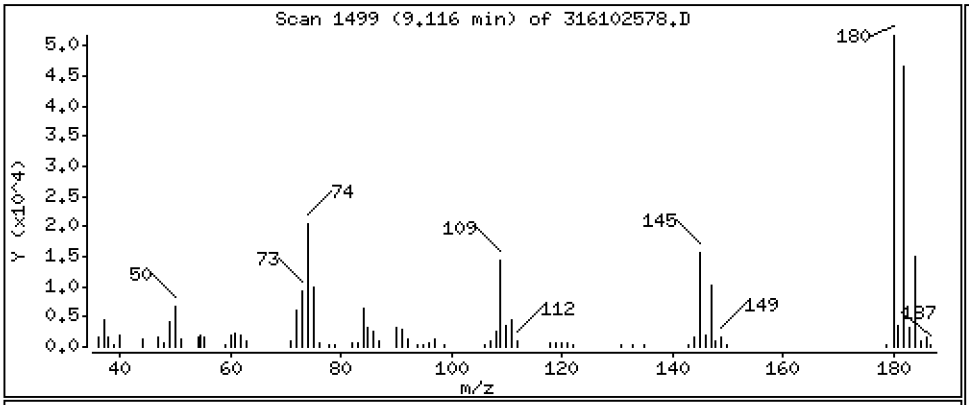
Client ID: 2184163001MSD Instrument: ms03.i

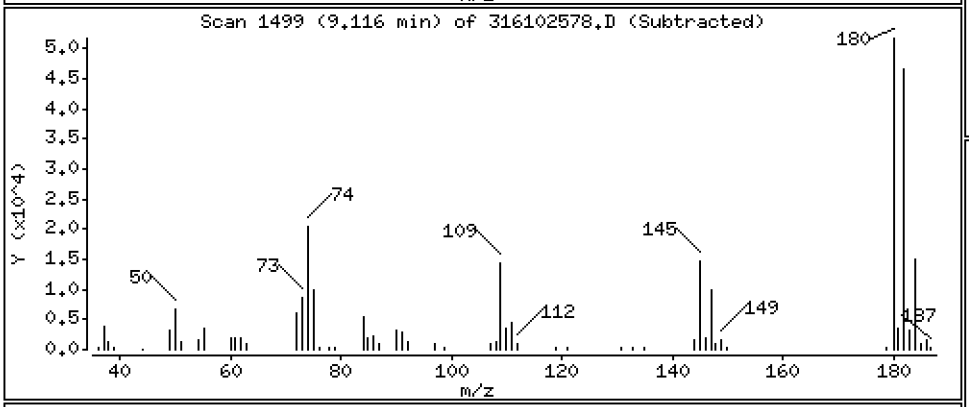
Sample Info: 2429374;;1;3;;MSD;1;

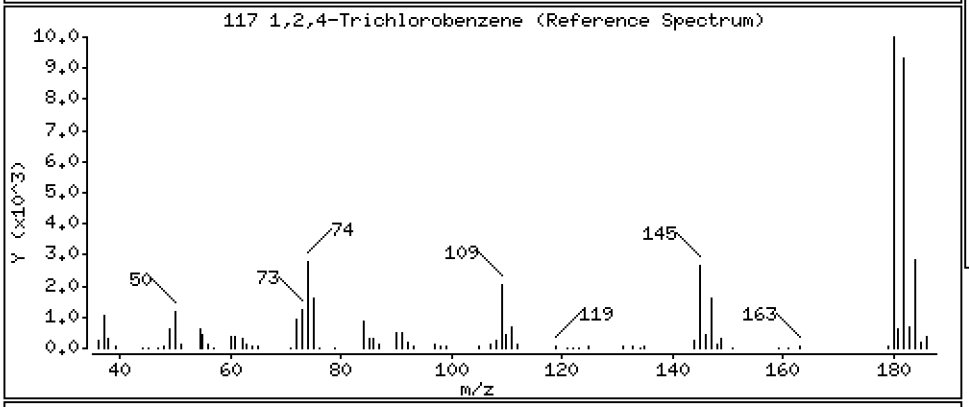
Purge Volume: 5.0 Operator: CJG

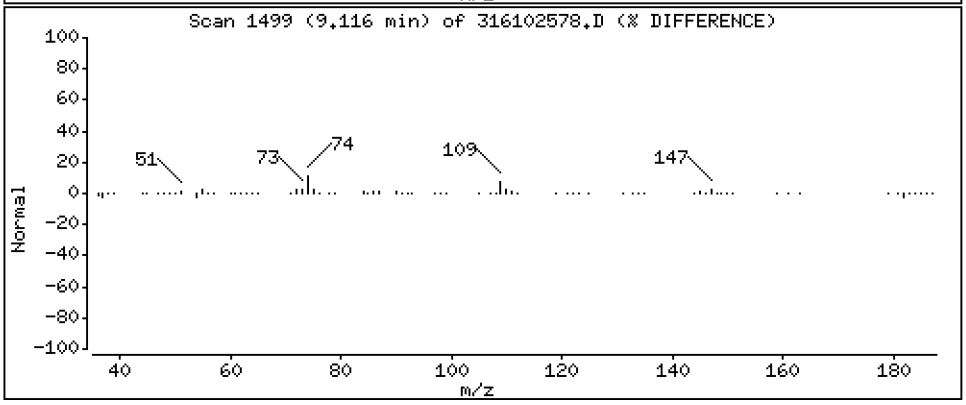
Column phase: DB-VRX Column diameter: 0.25

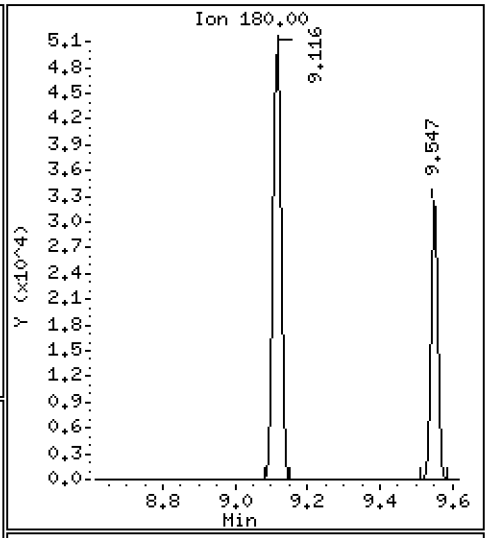
117 1,2,4-Trichlorobenzene Concentration: 18.6484 ug/L

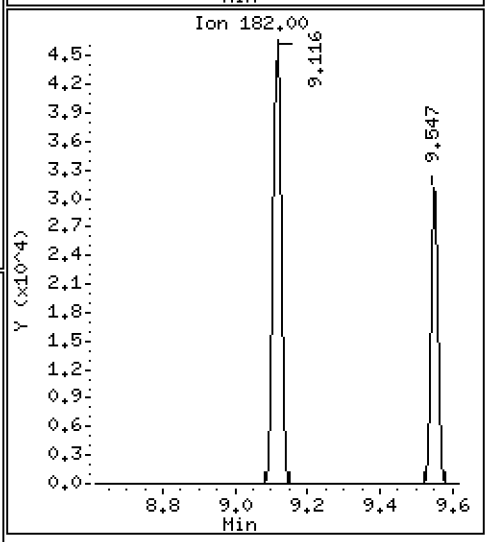












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 122

Date : 26-OCT-2016 07:52

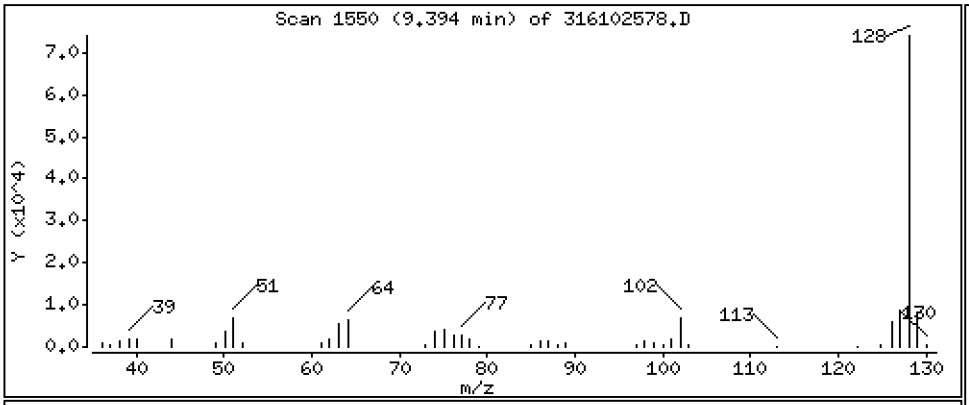
Client ID: 2184163001MSD Instrument: ms03.i

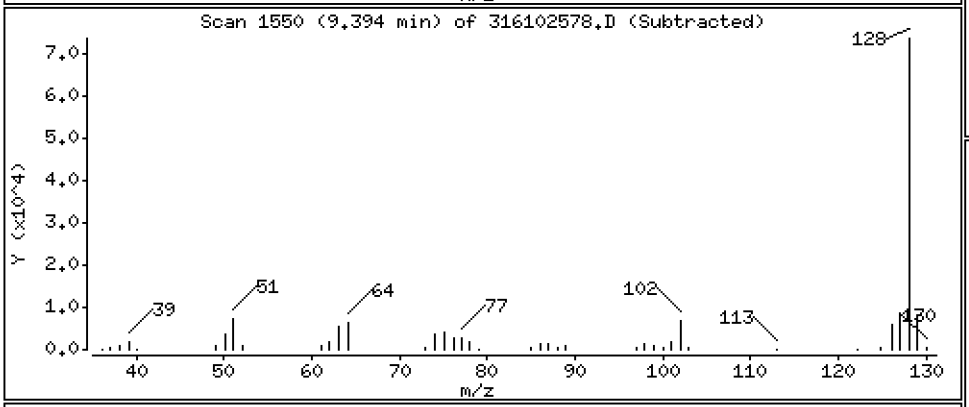
Sample Info: 2429374;;1;3;;MSD;1;

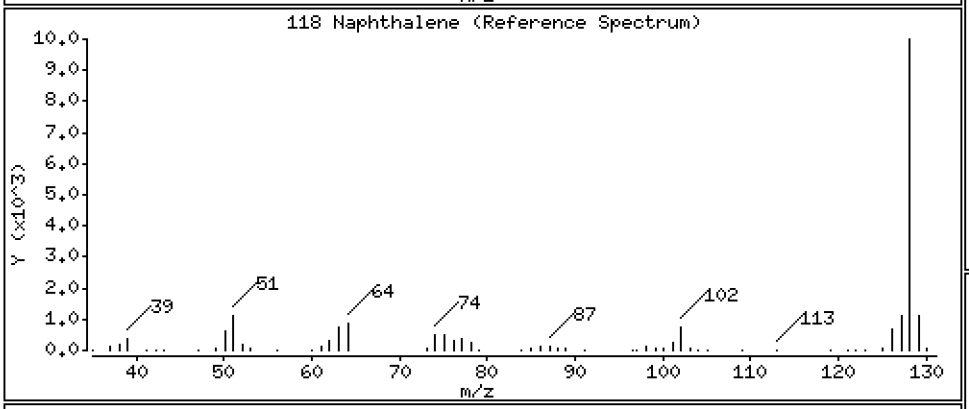
Purge Volume: 5.0 Operator: CJG

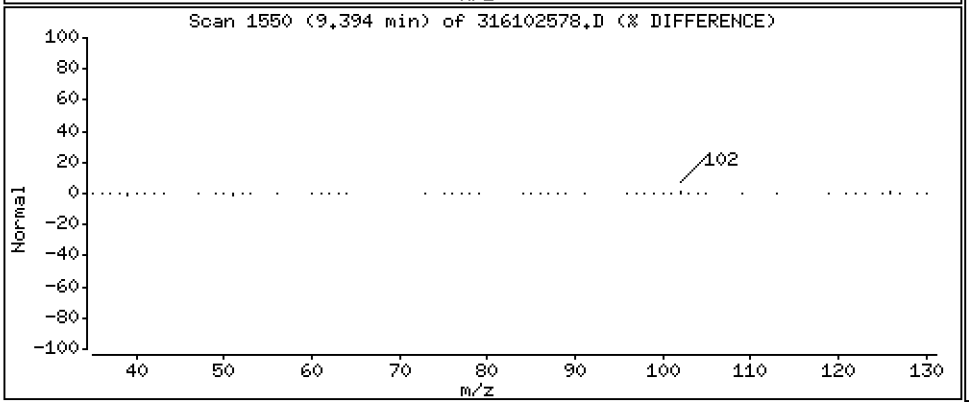
Column phase: DB-VRX Column diameter: 0.25

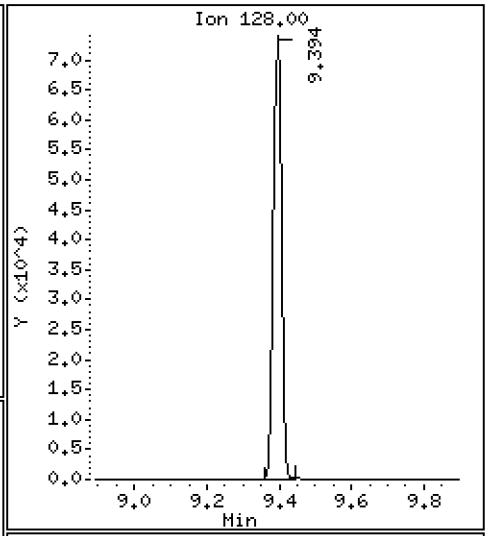
118 Naphthalene Concentration: 15.4948 ug/L

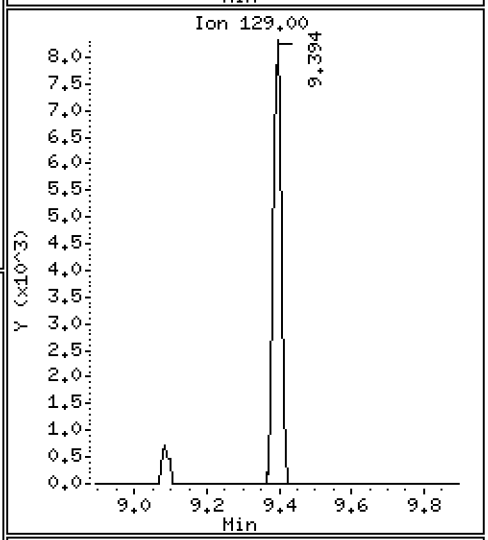


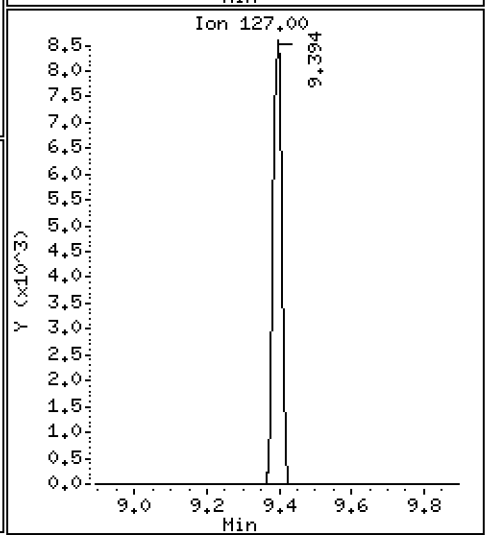












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 123

Date : 26-OCT-2016 07:52

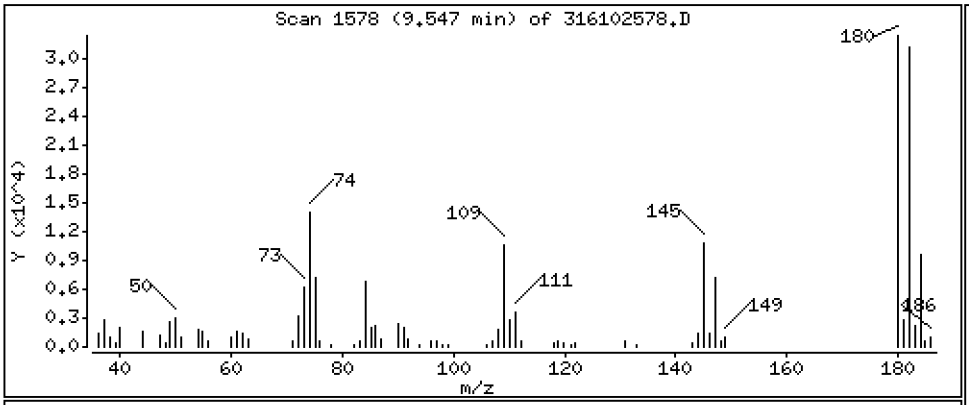
Client ID: 2184163001MSD Instrument: ms03.i

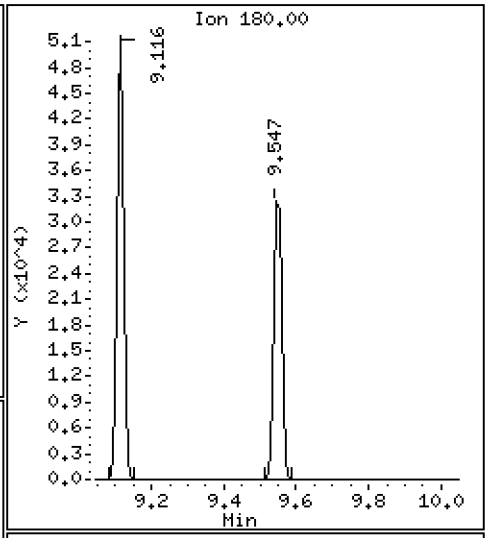
Sample Info: 2429374;;1;3;;MSD;1;

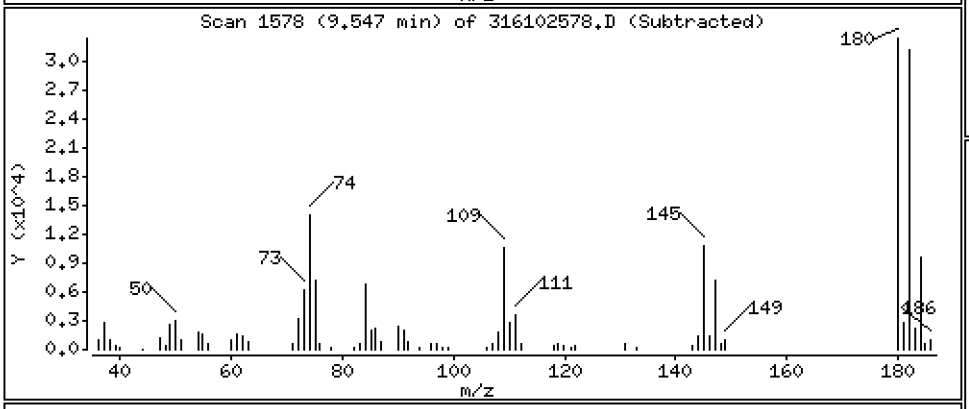
Purge Volume: 5.0 Operator: CJG

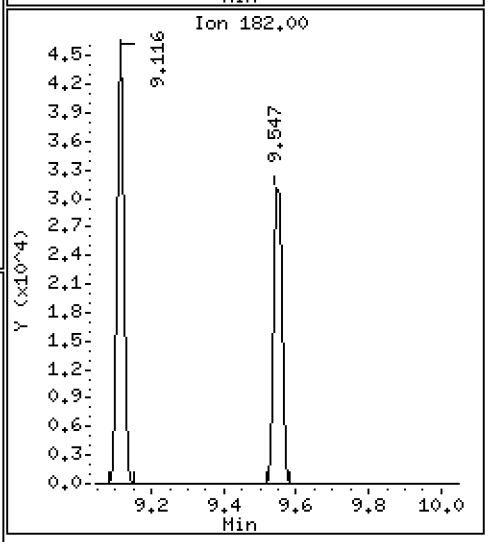
Column phase: DB-VRX Column diameter: 0.25

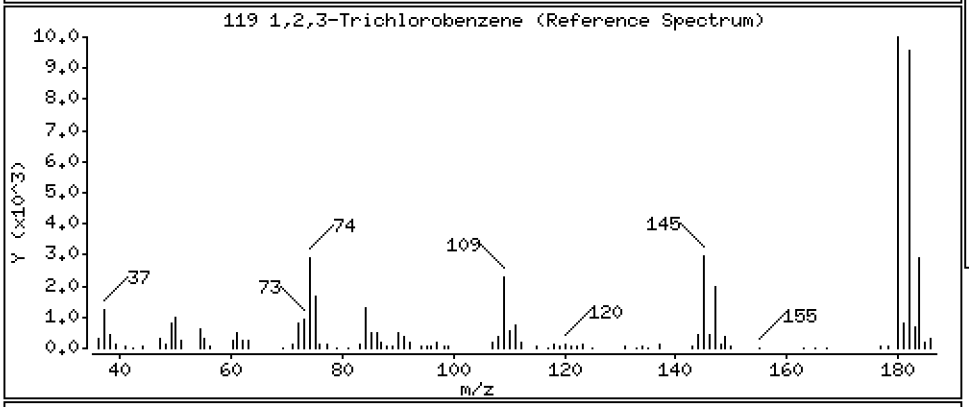
119 1,2,3-Trichlorobenzene Concentration: 17.9404 ug/L

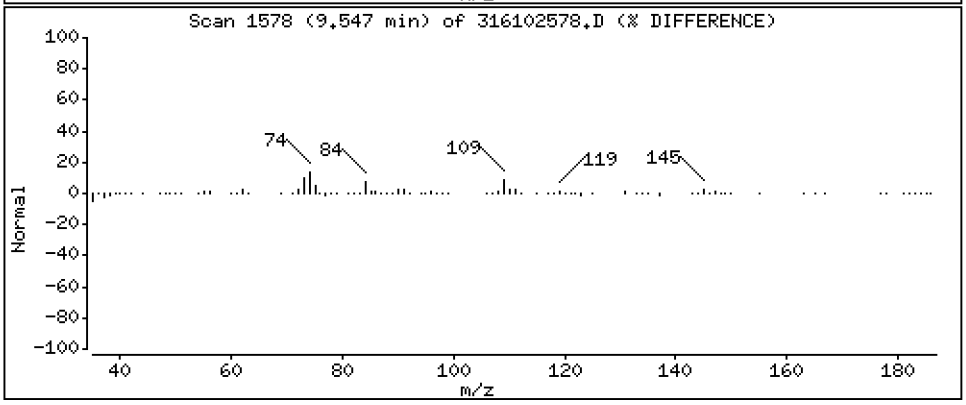












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102578.D Page 124

Date : 26-OCT-2016 07:52

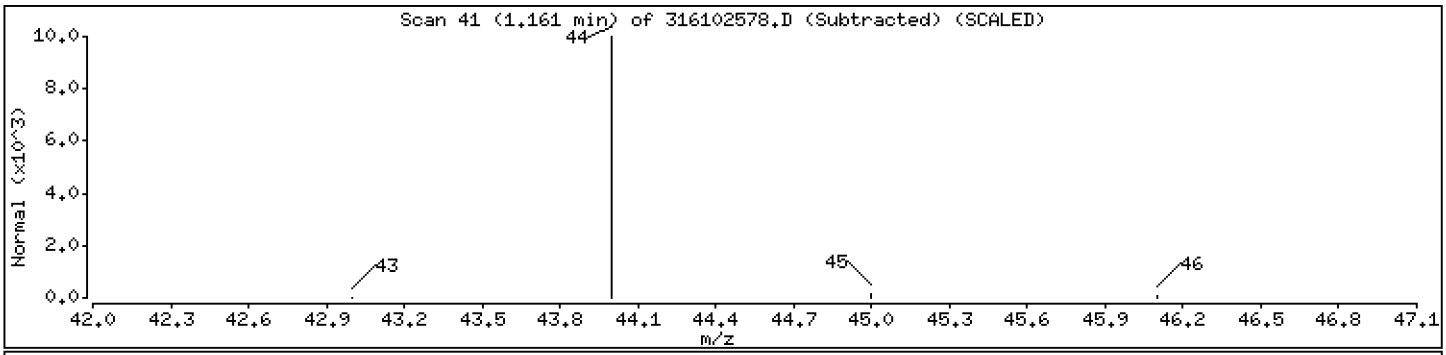
Client ID: 2184163001MSD Instrument: ms03.i

Sample Info: 2429374;;1;3;;MSD;1;

Purge Volume: 5.0 Operator: CJG

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0

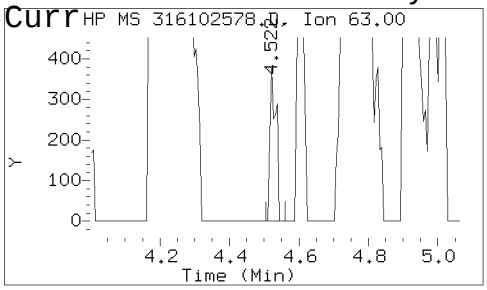


MANUAL INTEGRATION REPORT

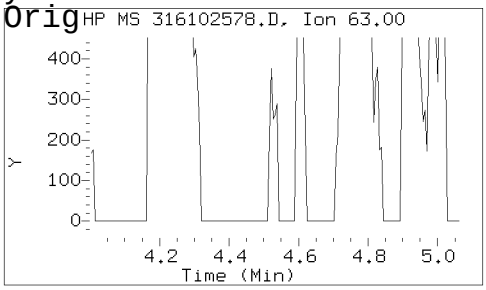
Report Date: 10/26/2016 10:59
Lab Sample ID: 2429374 Client ID: 2184163001MSD
DataFile:/Chem2/ms03.i/03_2016/3161025A.b/316102578.D
RawFile:/Chem2/ms03.i/03_2016/3161025A.b/RawData/316102578.D
Injection Date: 26-OCT-2016 07:52 Operator: CJG

2-Chloroethylvinyl ether

Curr



Orig

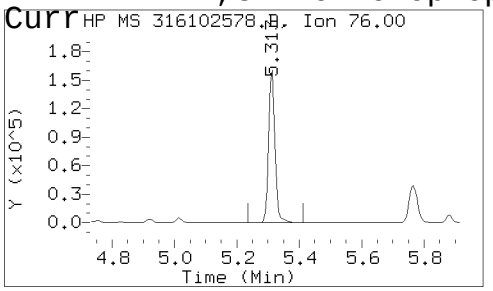


Curr. Area: 453
Orig. Area: 0

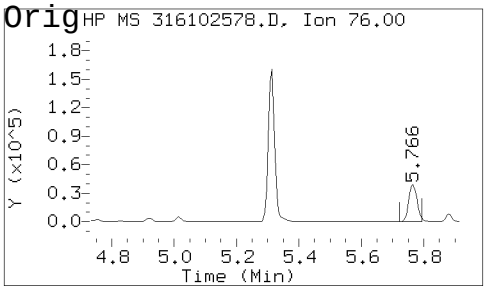
Curr. ON-COL: 0.115784
Orig. ON-COL: 0.000000

1,3-Dichloropropane

Curr



Orig



Curr. Area: 227028
Orig. Area: 72841

Curr. ON-COL: 18.7730
Orig. ON-COL: 6.02323

UNASSIGNED PEAK REPORT

Report Date: 10/26/2016 10:59
Lab Sample ID: 2429374 Client ID: 2184163001MSD
DataFile:/Chem2/ms03.i/03_2016/3161025A.b/316102578.D
RawFile:/Chem2/ms03.i/03_2016/3161025A.b/RawData/316102578.D
Injection Date: 26-OCT-2016 07:52 Operator: CJG

LCS Raw Data

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
2429302(LCS)

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Matrix (soil/water): WATER Lab Sample ID: 2429302

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 316102555.D

Level (low/med): Date Received: 10/25/16

% Moisture: not dec. 100.0 Date Analyzed: 10/25/16

GC Column: RTXVRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
67-64-1	Acetone	112	
71-43-2	Benzene	19.5	
108-86-1	Bromobenzene	18.6	
74-97-5	Bromochloromethane	18.9	
75-27-4	Bromodichloromethane	19.4	
75-25-2	Bromoform	17.1	
74-83-9	Bromomethane	19.8	
78-93-3	2-Butanone	107	
75-65-0	tert.- Butyl Alcohol	114	
98-06-6	tert-Butylbenzene	20.0	
104-51-8	n-Butylbenzene	19.2	
135-98-8	sec-Butylbenzene	20.1	
56-23-5	Carbon Tetrachloride	19.9	
108-90-7	Chlorobenzene	18.3	
124-48-1	Chlorodibromomethane	18.5	
75-00-3	Chloroethane	20.7	
67-66-3	Chloroform	20.7	
74-87-3	Chloromethane	19.4	
95-49-8	o-Chlorotoluene	20.1	
106-43-4	p-Chlorotoluene	20.0	
96-12-8	1,2-Dibromo-3-Chloropropane	19.2	
106-93-4	1,2-Dibromoethane	19.0	
95-50-1	1,2-Dichlorobenzene	20.0	
541-73-1	1,3-Dichlorobenzene	20.3	
106-46-7	1,4-Dichlorobenzene	20.5	
75-71-8	Dichlorodifluoromethane	16.7	
75-34-3	1,1-Dichloroethane	19.8	
107-06-2	1,2-Dichloroethane	19.5	
75-35-4	1,1-Dichloroethene	19.8	
156-59-2	cis-1,2-Dichloroethene	19.4	
156-60-5	trans-1,2-Dichloroethene	20.2	
594-20-7	2,2-Dichloropropane	20.8	
142-28-9	1,3-Dichloropropane	18.8	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
2429302(LCS)

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-048

Matrix (soil/water): WATER Lab Sample ID: 2429302

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: 316102555.D

Level (low/med): Date Received: 10/25/16

% Moisture: not dec. 100.0 Date Analyzed: 10/25/16

GC Column: RTXVRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
78-87-5	1,2-Dichloropropane	20.2	
563-58-6	1,1-Dichloropropene	20.7	
10061-01-5	cis-1,3-Dichloropropene	19.2	
10061-02-6	trans-1,3-Dichloropropene	20.4	
100-41-4	Ethylbenzene	19.1	
87-68-3	Hexachlorobutadiene	20.3	
591-78-6	2-Hexanone	110	
98-82-8	Isopropylbenzene	20.2	
99-87-6	p-Isopropyltoluene	20.3	
1634-04-4	Methyl t-Butyl Ether	19.7	
108-10-1	4-Methyl-2-Pentanone(MIBK)	109	
75-09-2	Methylene Chloride	20.3	
91-20-3	Naphthalene	15.8	
103-65-1	n-Propylbenzene	20.1	
100-42-5	Styrene	20.4	
630-20-6	1,1,1,2-Tetrachloroethane	19.7	
79-34-5	1,1,2,2-Tetrachloroethane	19.6	
127-18-4	Tetrachloroethene	22.3	
108-88-3	Toluene	20.1	
1330-20-7	Total Xylenes	58.4	
87-61-6	1,2,3-Trichlorobenzene	17.7	
120-82-1	1,2,4-Trichlorobenzene	18.3	
71-55-6	1,1,1-Trichloroethane	20.1	
79-00-5	1,1,2-Trichloroethane	18.9	
79-01-6	Trichloroethene	18.9	
75-69-4	Trichlorofluoromethane	19.8	
96-18-4	1,2,3-Trichloropropane	19.5	
95-63-6	1,2,4-Trimethylbenzene	20.8	
108-67-8	1,3,5-Trimethylbenzene	21.0	
75-01-4	Vinyl Chloride	19.1	
95-47-6	o-Xylene	19.7	
108383/106423	mp-Xylene	38.7	

Data File: 316102555.D Page 1
Report Date: 26-Oct-2016 10:32

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\31610255
Lab Smp Id: 2429302 Client Smp ID: LCS for HBN 174258
Inj Date : 25-OCT-2016 23:28
Operator : CJG Inst ID: ms03.i
Smp Info : 2429302;;1;3;;LCS;1;
Misc Info : ZZ VOMS 41258 D8260W
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b0
Meth Date : 26-Oct-2016 10:26 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.258	(0.332)	203617	16.7333	16.7333	
2 Chloromethane	50	1.389	1.389	(0.367)	219707	19.4289	19.4289	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	231620	19.0974	19.0974	
4 Bromomethane	94	1.640	1.646	(0.433)	87745	19.7752	19.7752	
5 Chloroethane	64	1.711	1.722	(0.452)	155316	20.7387	20.7387	
6 Pentane	41	1.788	1.793	(0.472)	189757	29.3868	29.3868(R)	
7 Trichlorofluoromethane	101	1.793	1.798	(0.473)	270705	19.8346	19.8346	
8 Dichlorofluoromethane	67	1.826	1.826	(0.482)	376103	20.6512	20.6512	
9 Ethyl Ether	74	1.968	1.967	(0.519)	114244	18.8613	18.8613	
10 1,1-Dichloroethene	61	2.088	2.088	(0.551)	248951	19.7706	19.7706	
12 Carbon Disulfide	76	2.115	2.120	(0.558)	391006	18.2028	18.2028	
11 Freon 113	101	2.099	2.104	(0.554)	149888	21.1060	21.1060	
13 Iodomethane	127	2.175	2.180	(0.574)	25348	16.0479	16.0479	
14 Acrolein	56	2.273	2.273	(0.600)	299878	253.638	253.638	
16 3-Chloro-1-propene	41	2.344	2.344	(0.619)	250107	23.8415	23.8415	
15 Isopropyl Alcohol	45	2.333	2.333	(0.616)	33389	123.972	123.972	
17 Methylene Chloride	84	2.399	2.404	(0.633)	171594	20.3245	20.3245	
18 Acetone	58	2.426	2.426	(0.640)	73050	111.886	111.886	
19 Methyl acetate	74	2.480	2.480	(0.655)	26786	20.6752	20.6752(Q)	
20 trans-1,2-Dichloroethene	61	2.486	2.486	(0.656)	247758	20.2435	20.2435	
21 Hexane	57	2.513	2.519	(0.663)	374039	21.6996	21.6996	

Data File: 316102555.D Page 2
Report Date: 26-Oct-2016 10:32

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
22 Methyl t-Butyl Ether	73	2.530	2.529	(0.667)	415432	19.6690	19.6690	
23 tert.- Butyl Alcohol	59	2.568	2.568	(0.678)	51765	113.880	113.880	
24 Acetonitrile	41	2.682	2.682	(0.708)	88344	128.819	128.819	
25 Diisopropyl ether	45	2.721	2.720	(0.718)	589190	21.3128	21.3128	
26 Chloroprene	53	2.797	2.797	(0.738)	276766	22.9335	22.9335	
27 1,1-Dichloroethane	63	2.813	2.813	(0.742)	315683	19.8117	19.8117	
28 Acrylonitrile	53	2.841	2.840	(0.750)	301972	104.677	104.677	
30 n-Propanol	41	2.912	2.911	(0.768)	114425	232.322	232.322(Q)	
29 Ethyl tert-butyl ether	59	2.912	2.911	(0.768)	472990	20.1566	20.1566	
31 Vinyl acetate	86	2.922	2.928	(0.771)	31077	17.8225	17.8225	
32 cis-1,2-Dichloroethene	61	3.097	3.097	(0.817)	237226	19.3944	19.3944	
33 2,2-Dichloropropane	77	3.157	3.157	(0.833)	200154	20.8425	20.8425	
M 100 1,2-Dichloroethene, Total	61				484984	39.6379	39.6379	
34 Bromochloromethane	128	3.206	3.206	(0.846)	64164	18.8557	18.8557	
35 Cyclohexane	84	3.212	3.212	(0.847)	281346	21.4060	21.4060	
36 Chloroform	83	3.233	3.233	(0.853)	308990	20.6609	20.6609	
37 Ethyl acetate	43	3.283	3.277	(0.866)	150125	21.4443	21.4443	
38 Methyl acrylate	55	3.293	3.293	(0.869)	137759	20.2892	20.2892	
39 Carbon Tetrachloride	117	3.321	3.321	(0.876)	166574	19.8609	19.8609	
40 Tetrahydrofuran	42	3.332	3.326	(0.879)	235169	106.020	106.020	
$ 41 Dibromofluoromethane	113	3.337	3.337	(0.881)	164641	25.0417	25.0417	
42 1,1,1-Trichloroethane	97	3.359	3.359	(0.886)	225159	20.1423	20.1423	
43 2-Butanone	72	3.397	3.397	(0.896)	101286	107.123	107.123	
44 1,1-Dichloropropene	75	3.424	3.424	(0.904)	244721	20.7097	20.7097	
45 1-Chlorobutane	41	3.446	3.446	(0.909)	202332	23.6132	23.6132	
46 Heptane	71	3.512	3.512	(0.927)	127738	23.6940	23.6940	
48 Propionitrile	54	3.577	3.577	(0.944)	116617	108.028	108.028	
47 Benzene	78	3.561	3.561	(0.940)	711710	19.5082	19.5082	
49 Methacrylonitrile	67	3.583	3.583	(0.945)	67409	20.2934	20.2934	
50 tert-amyl methyl Ether	73	3.599	3.599	(0.950)	369754	19.5002	19.5002	
$ 51 1,2-Dichloroethane-d4	65	3.637	3.637	(0.960)	244942	31.3196	31.3196	
54 Isobutyl alcohol	43	3.632	3.626	(0.958)	52527	304.844	304.844(R)	
52 1,2-Dichloroethane	62	3.675	3.675	(0.970)	210967	19.5253	19.5253	
53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	35033	98.4071	98.4071	
* 55 Fluorobenzene	96	3.790	3.790	(1.000)	997116	30.0000		
56 Diisobutylene	57	3.790	3.795	(1.000)	484898	23.7069	23.7069	
57 Trichloroethene	95	3.883	3.883	(1.024)	163939	18.8775	18.8775	
58 Methyl cyclohexane	83	3.883	3.883	(0.674)	290251	20.4156	20.4156	
59 tert-Amyl Ethylether	59	3.992	3.986	(1.053)	340235	20.1439	20.1439	
60 Dibromomethane	93	4.139	4.139	(1.092)	82650	18.6463	18.6463	
61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	181538	20.2484	20.2484	
62 Bromodichloromethane	83	4.221	4.221	(1.114)	175189	19.4147	19.4147	
63 Methyl methacrylate	41	4.292	4.292	(1.132)	126990	20.5540	20.5540	
64 1,4-Dioxane	88	4.336	4.336	(1.144)	25467	856.102	856.102(QR)	
65 2-Chloroethylvinyl ether	63	4.548	4.548	(1.200)	81000	18.5507	18.5507	
66 cis-1,3-Dichloropropene	75	4.603	4.603	(0.799)	222433	19.2462	19.2462	
67 Octane	85	4.608	4.608	(0.800)	79763	22.9772	22.9772	
$ 68 Toluene-d8	98	4.723	4.723	(0.820)	725112	27.4045	27.4045	
69 Toluene	92	4.756	4.756	(0.826)	410034	20.0977	20.0977	
70 Chloroacetonitrile	48	4.827	4.827	(0.838)	18753	102.605	102.605	
71 2-Nitropropane	41	4.909	4.908	(0.852)	127975	89.5531	89.5531(Q)	
72 1,1-Dichloro-2-propanone	63	4.919	4.919	(0.854)	12847	94.0961	94.0961(Q)	
73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.985	(0.865)	763135	108.500	108.500	
75 trans-1,3-Dichloropropene	75	5.012	5.012	(0.870)	204902	20.4038	20.4038	

Data File: 316102555.D Page 3
Report Date: 26-Oct-2016 10:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	108990	22.3030	22.3030	
	76 Ethyl methacrylate	69	5.094	5.094	(0.884)	198164	21.5313	21.5313	
	77 1,1,2-Trichloroethane	83	5.121	5.121	(0.889)	111942	18.8741	18.8741	
	78 Chlorodibromomethane	129	5.247	5.247	(0.911)	98753	18.5142	18.5142	
	79 1,3-Dichloropropane	76	5.312	5.312	(0.922)	241025	18.8305	18.8305(M)	H
	80 1,2-Dibromoethane	107	5.421	5.421	(0.941)	112355	19.0452	19.0452	
	81 2-Hexanone	43	5.542	5.541	(0.962)	491707	110.371	110.371	
	82 1-Chlorohexane	91	5.738	5.738	(0.996)	208703	20.0576	20.0576	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	428277	30.0000		
	85 Ethylbenzene	106	5.782	5.781	(1.004)	223129	19.0851	19.0851	
	84 Chlorobenzene	112	5.771	5.771	(1.002)	391645	18.2973	18.2973	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.814	(1.009)	110933	19.7383	19.7383	
	87 mp-Xylene	106	5.880	5.880	(1.021)	528215	38.7183	38.7183	
M	120 1,3-Dichloropropene, Total	75				427335	39.6499	39.6499	
	88 o-Xylene	106	6.196	6.196	(1.076)	238097	19.6571	19.6571	
	89 Styrene	104	6.234	6.234	(0.829)	388699	20.3553	20.3553	
	90 Bromoform	173	6.262	6.262	(0.833)	40935	17.0872	17.0872	
	91 Isopropylbenzene	105	6.425	6.425	(0.855)	629970	20.1898	20.1898	
$	92 4-Bromofluorobenzene	174	6.649	6.649	(0.885)	149070	27.9734	27.9734	
M	121 TOTAL XYLENES	106				766312	58.3753	58.3753	
	94 n-Propylbenzene	120	6.736	6.736	(0.896)	158571	20.0974	20.0974	
	93 Bromobenzene	156	6.731	6.731	(0.895)	121760	18.6143	18.6143	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.791	(0.903)	148230	19.5895	19.5895	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.916)	479885	21.0045	21.0045	
	96 o-Chlorotoluene	91	6.867	6.867	(0.914)	493136	20.1275	20.1275	
	98 1,2,3-Trichloropropane	110	6.906	6.905	(0.919)	43805	19.4769	19.4769	
	99 trans-1,4-Dichloro-2-butene	53	6.933	6.933	(0.922)	39055	21.6142	21.6142	
	101 p-Chlorotoluene	91	6.993	6.993	(0.930)	445392	19.9542	19.9542	
	102 tert-Butylbenzene	134	7.140	7.135	(0.950)	103558	20.0166	20.0166	
	103 Pentachloroethane	117	7.162	7.162	(0.953)	84234	19.5575	19.5575	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.957)	465418	20.8347	20.8347	
	105 sec-Butylbenzene	105	7.277	7.277	(0.968)	574221	20.1002	20.1002	
	106 p-Isopropyltoluene	134	7.391	7.391	(0.983)	110436	20.2894	20.2894	
	107 1,3-Dichlorobenzene	146	7.462	7.462	(0.993)	216894	20.2712	20.2712	
*	108 1,4-Dichlorobenzene-d4	152	7.517	7.522	(1.000)	257474	30.0000		
	109 1,4-Dichlorobenzene	146	7.533	7.533	(1.002)	220033	20.4788	20.4788	
	111 n-Butylbenzene	134	7.735	7.735	(1.029)	92265	19.2494	19.2494	
	110 Benzyl Chloride	126	7.735	7.735	(1.029)	23122	16.8535	16.8535(Q)	
	112 Hexachloroethane	117	7.850	7.849	(1.044)	58239	17.5102	17.5102	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.048)	192663	20.0271	20.0271	
	114 1,2-Dibromo-3-chloropropane	75	8.543	8.542	(1.136)	14965	19.1928	19.1928	
	115 Nitrobenzene	77	9.028	9.028	(1.201)	4948	279.253	279.253(R)	
	116 Hexachlorobutadiene	225	9.088	9.088	(1.209)	36407	20.3156	20.3156	
	117 1,2,4-Trichlorobenzene	180	9.115	9.115	(1.213)	73611	18.2520	18.2520	
	118 Naphthalene	128	9.394	9.394	(1.250)	113437	15.7803	15.7803	
	119 1,2,3-Trichlorobenzene	180	9.546	9.546	(1.270)	47387	17.7234	17.7234	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 316102555.D Page 4
Report Date: 26-Oct-2016 10:32

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i
Lab File ID: 316102555.D
Lab Smp Id: 2429302
Analysis Type: VOA
Quant Type: ISTD
Operator: CJG
Calibration Date: 25-OCT-2016
Calibration Time: 21:59
Client Smp ID: LCS for HBN 174
Level: LOW
Sample Type: WATER
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b
Misc Info: ZZ VOMS 41258 D8260W

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	997116	-1.58
83 Chlorobenzene-d5	432864	216432	865728	428277	-1.06
108 1,4-Dichlorobenze	273837	136919	547674	257474	-5.98

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102555.D Page 5
Report Date: 26-Oct-2016 10:32

ALS Environmental Services

RECOVERY REPORT

Client Name: Client SDG: 3161025A.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 2429302 Client Smp ID: LCS for HBN 174258
Level: LOW Operator: CJG
Data Type: MS DATA SampleType: LCS
SpikeList File: DOD2014.spk Quant Type: ISTD
Sublist File: DODall.sub
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3-8260b
Misc Info: ZZ VOMS 41258 D8260W

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Dichlorodifluorome	20.0000	16.7333	83.67	32-152
2	Chloromethane	20.0000	19.4289	97.14	50-139
3	Vinyl Chloride	20.0000	19.0974	95.49	58-137
4	Bromomethane	20.0000	19.7752	98.88	53-141
5	Chloroethane	20.0000	20.7387	103.69	60-138
6	Pentane	20.0000	29.3868	146.93*	16-134
7	Trichlorofluoromet	20.0000	19.8346	99.17	65-141
8	Dichlorofluorometh	20.0000	20.6512	103.26	72-131
9	Ethyl Ether	20.0000	18.8613	94.31	71-131
10	1,1-Dichloroethene	20.0000	19.7706	98.85	71-131
11	Freon 113	20.0000	21.1060	105.53	70-136
12	Carbon Disulfide	20.0000	18.2028	91.01	64-133
13	Iodomethane	20.0000	16.0479	80.24	69-131
14	Acrolein	200.000	253.638	126.82	39-155
15	Isopropyl Alcohol	100.000	123.972	123.97	56-142
16	3-Chloro-1-propene	20.0000	23.8415	119.21	59-135
17	Methylene Chloride	20.0000	20.3245	101.62	74-124
18	Acetone	100.000	111.886	111.89	39-160
19	Methyl acetate	20.0000	20.6752	103.38	56-136
20	trans-1,2-Dichloro	20.0000	20.2435	101.22	75-124
21	Hexane	20.0000	21.6996	108.50	48-143
22	Methyl t-Butyl Eth	20.0000	19.6690	98.34	71-124
23	tert.- Butyl Alcoh	100.000	113.880	113.88	68-129
24	Acetonitrile	100.000	128.819	128.82	50-142
25	Diisopropyl ether	20.0000	21.3128	106.56	67-128
26	Chloroprene	20.0000	22.9335	114.67	62-125
27	1,1-Dichloroethane	20.0000	19.8117	99.06	77-125
28	Acrylonitrile	100.000	104.677	104.68	63-135
29	Ethyl tert-butyl e	20.0000	20.1566	100.78	70-127
30	n-Propanol	200.000	232.322	116.16	19-342
31	Vinyl acetate	20.0000	17.8225	89.11	54-146
32	cis-1,2-Dichloroet	20.0000	19.3944	96.97	78-123
33	2,2-Dichloropropan	20.0000	20.8425	104.21	60-139
34	Bromochloromethane	20.0000	18.8557	94.28	78-123
35	Cyclohexane	20.0000	21.4060	107.03	71-130
36	Chloroform	20.0000	20.6609	103.30	79-124
37	Ethyl acetate	20.0000	21.4443	107.22	55-138
38	Methyl acrylate	20.0000	20.2892	101.45	70-130
39	Carbon Tetrachlori	20.0000	19.8609	99.30	72-136
40	Tetrahydrofuran	100.000	106.020	106.02	57-133

Data File: 316102555.D Page 6
Report Date: 26-Oct-2016 10:32

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
42	1,1,1-Trichloroeth	20.0000	20.1423	100.71	74-131
43	2-Butanone	100.000	107.123	107.12	56-143
44	1,1-Dichloropropen	20.0000	20.7097	103.55	79-125
45	1-Chlorobutane	20.0000	23.6132	118.07	70-130
46	Heptane	20.0000	23.6940	118.47	49-140
47	Benzene	20.0000	19.5082	97.54	79-120
48	Propionitrile	100.000	108.028	108.03	64-136
49	Methacrylonitrile	20.0000	20.2934	101.47	63-133
50	tert-amyl methyl E	20.0000	19.5002	97.50	68-128
54	Isobutyl alcohol	200.000	304.844	152.42*	63-133
52	1,2-Dichloroethane	20.0000	19.5253	97.63	73-128
53	tert-Amyl Alcohol	100.000	98.4071	98.41	68-130
56	Diisobutylene	20.0000	23.7069	118.53	60-137
57	Trichloroethene	20.0000	18.8775	94.39	79-123
58	Methyl cyclohexane	20.0000	20.4156	102.08	72-132
59	tert-Amyl Ethyleth	20.0000	20.1439	100.72	70-130
60	Dibromomethane	20.0000	18.6463	93.23	79-123
61	1,2-Dichloropropan	20.0000	20.2484	101.24	78-122
62	Bromodichlorometha	20.0000	19.4147	97.07	79-125
63	Methyl methacrylat	20.0000	20.5540	102.77	67-128
64	1,4-Dioxane	500.000	856.102	171.22*	59-139
65	2-Chloroethylvinyl	20.0000	18.5507	92.75	51-139
66	cis-1,3-Dichloropr	20.0000	19.2462	96.23	75-124
67	Octane	20.0000	22.9772	114.89	58-127
69	Toluene	20.0000	20.0977	100.49	80-121
70	Chloroacetonitrile	100.000	102.605	102.61	80-120
71	2-Nitropropane	100.000	89.5531	89.55	49-136
73	4-Methyl-2-Pentano	100.000	108.500	108.50	67-130
72	1,1-Dichloro-2-pro	100.000	94.0961	94.10	70-130
74	Tetrachloroethene	20.0000	22.3030	111.52	74-129
75	trans-1,3-Dichloro	20.0000	20.4038	102.02	73-127
76	Ethyl methacrylate	20.0000	21.5313	107.66	72-126
77	1,1,2-Trichloroeth	20.0000	18.8741	94.37	80-119
78	Chlorodibromometha	20.0000	18.5142	92.57	74-126
79	1,3-Dichloropropan	20.0000	18.8305	94.15	80-119
80	1,2-Dibromoethane	20.0000	19.0452	95.23	77-121
81	2-Hexanone	100.000	110.371	110.37	57-139
82	1-Chlorohexane	20.0000	20.0576	100.29	76-124
84	Chlorobenzene	20.0000	18.2973	91.49	82-118
85	Ethylbenzene	20.0000	19.0851	95.43	79-121
88	o-Xylene	20.0000	19.6571	98.29	78-122
86	1,1,1,2-Tetrachlor	20.0000	19.7383	98.69	78-124
87	mp-Xylene	40.0000	38.7183	96.80	80-121
89	Styrene	20.0000	20.3553	101.78	78-123
90	Bromoform	20.0000	17.0872	85.44	66-130
91	Isopropylbenzene	20.0000	20.1898	100.95	72-131
93	Bromobenzene	20.0000	18.6143	93.07	80-120
94	n-Propylbenzene	20.0000	20.0974	100.49	76-126
95	1,1,2,2-Tetrachlor	20.0000	19.5895	97.95	71-121
96	o-Chlorotoluene	20.0000	20.1275	100.64	79-122
97	1,3,5-Trimethylben	20.0000	21.0045	105.02	75-124
98	1,2,3-Trichloropro	20.0000	19.4769	97.38	73-122
M 100	1,2-Dichloroethene	40.0000	39.6379	99.09	78-123
99	trans-1,4-Dichloro	20.0000	21.6142	108.07	43-140

Data File: 316102555.D Page 7
Report Date: 26-Oct-2016 10:32

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	101 p-Chlorotoluene	20.0000	19.9542	99.77	78-122
	102 tert-Butylbenzene	20.0000	20.0166	100.08	78-124
	103 Pentachloroethane	20.0000	19.5575	97.79	69-133
	104 1,2,4-Trimethylben	20.0000	20.8347	104.17	76-124
	105 sec-Butylbenzene	20.0000	20.1002	100.50	77-126
	106 p-Isopropyltoluene	20.0000	20.2894	101.45	77-127
	107 1,3-Dichlorobenzen	20.0000	20.2712	101.36	80-119
	109 1,4-Dichlorobenzen	20.0000	20.4788	102.39	79-118
	110 Benzyl Chloride	20.0000	16.8535	84.27	42-138
	111 n-Butylbenzene	20.0000	19.2494	96.25	75-128
	112 Hexachloroethane	20.0000	17.5102	87.55	72-134
	113 1,2-Dichlorobenzen	20.0000	20.0271	100.14	80-119
	114 1,2-Dibromo-3-chlo	20.0000	19.1928	95.96	62-128
	115 Nitrobenzene	200.000	279.253	139.63*	23-139
	116 Hexachlorobutadien	20.0000	20.3156	101.58	66-134
	117 1,2,4-Trichloroben	20.0000	18.2520	91.26	69-130
	118 Naphthalene	20.0000	15.7803	78.90	61-128
M	120 1,3-Dichloropropen	40.0000	39.6499	99.12	75-124
	119 1,2,3-Trichloroben	20.0000	17.7234	88.62	69-129
M	121 TOTAL XYLENES	60.0000	58.3753	97.29	79-121

	SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$	41 Dibromofluorometha	30.0000	25.0417	83.47	80-119
$	51 1,2-Dichloroethane	30.0000	31.3196	104.40	81-118
$	68 Toluene-d8	30.0000	27.4045	91.35	89-112
$	92 4-Bromofluorobenze	30.0000	27.9734	93.24	85-114

Data File: 316102555.D Page 8
Report Date: 26-Oct-2016 10:32

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2429302
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41258 D8260W

Client SDG: 3161025A.b
Client Smp ID: LCS for HBN 174258
Sample Point:
Date Received: 25-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: CJG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	16.7333	
74-87-3	Chloromethane	19.4289	
75-01-4	Vinyl Chloride	19.0974	
74-83-9	Bromomethane	19.7752	
75-00-3	Chloroethane	20.7387	
109-66-0	Pentane	29.3868	
75-69-4	Trichlorofluoromethane	19.8346	
75-43-4	Dichlorofluoromethane	20.6512	
60-29-7	Ethyl Ether	18.8613	
75-35-4	1,1-Dichloroethene	19.7706	
75-15-0	Carbon Disulfide	18.2028	
76-13-1	Freon 113	21.1060	
74-88-4	Iodomethane	16.0479	
107-02-8	Acrolein	253.638	
107-05-1	3-Chloro-1-propene	23.8415	
67-63-0	Isopropyl Alcohol	123.972	
75-09-2	Methylene Chloride	20.3245	
67-64-1	Acetone	111.886	
79-20-9	Methyl acetate	20.6752	
156-60-5	trans-1,2-Dichloroethene	20.2435	
110-54-3	Hexane	21.6996	
1634-04-4	Methyl t-Butyl Ether	19.6690	
75-65-0	tert.- Butyl Alcohol	113.880	
75-05-8	Acetonitrile	128.819	
108-20-3	Diisopropyl ether	21.3128	
126-99-8	Chloroprene	22.9335	
75-34-3	1,1-Dichloroethane	19.8117	
107-13-1	Acrylonitrile	104.677	
71-23-8	n-Propanol	232.322	
637-92-3	Ethyl tert-butyl ether	20.1566	
108-05-4	Vinyl acetate	17.8225	
156-59-2	cis-1,2-Dichloroethene	19.3944	
594-20-7	2,2-Dichloropropane	20.8425	
540-59-0	1,2-Dichloroethene, Total	39.6379	
74-97-5	Bromochloromethane	18.8557	
110-82-7	Cyclohexane	21.4060	
67-66-3	Chloroform	20.6609	
141-78-6	Ethyl acetate	21.4443	
96-33-3	Methyl acrylate	20.2892	
56-23-5	Carbon Tetrachloride	19.8609	
109-99-9	Tetrahydrofuran	106.020	
71-55-6	1,1,1-Trichloroethane	20.1423	

Data File: 316102555.D Page 9
Report Date: 26-Oct-2016 10:32

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2429302
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41258 D8260W

Client SDG: 3161025A.b
Client Smp ID: LCS for HBN 174258
Sample Point:
Date Received: 25-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: CJG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
78-93-3	2-Butanone	107.123	
563-58-6	1,1-Dichloropropene	20.7097	
109-69-3	1-Chlorobutane	23.6132	
142-82-5	Heptane	23.6940	
107-12-0	Propionitrile	108.028	
71-43-2	Benzene	19.5082	
126-98-7	Methacrylonitrile	20.2934	
994-05-8	tert-amyl methyl Ether	19.5002	
78-83-1	Isobutyl alcohol	304.844	
107-06-2	1,2-Dichloroethane	19.5253	
75-85-4	tert-Amyl Alcohol	98.4071	
107-39-1	Diisobutylene	23.7069	
79-01-6	Trichloroethene	18.8775	
108-87-2	Methyl cyclohexane	20.4156	
919-94-8	tert-Amyl Ethylether	20.1439	
74-95-3	Dibromomethane	18.6463	
78-87-5	1,2-Dichloropropane	20.2484	
75-27-4	Bromodichloromethane	19.4147	
80-62-6	Methyl methacrylate	20.5540	
123-91-1	1,4-Dioxane	856.102	
110-75-8	2-Chloroethylvinyl ether	18.5507	
10061-01-5	cis-1,3-Dichloropropene	19.2462	
111-65-9	Octane	22.9772	
108-88-3	Toluene	20.0977	
107-14-2	Chloroacetonitrile	102.605	
79-46-9	2-Nitropropane	89.5531	
513-88-2	1,1-Dichloro-2-propanone	94.0961	
108-10-1	4-Methyl-2-Pentanone(MIBK)	108.500	
10061-02-6	trans-1,3-Dichloropropene	20.4038	
127-18-4	Tetrachloroethene	22.3030	
97-63-2	Ethyl methacrylate	21.5313	
79-00-5	1,1,2-Trichloroethane	18.8741	
124-48-1	Chlorodibromomethane	18.5142	
142-28-9	1,3-Dichloropropane	18.8305	
106-93-4	1,2-Dibromoethane	19.0452	
591-78-6	2-Hexanone	110.371	
544-10-5	1-Chlorohexane	20.0576	
100-41-4	Ethylbenzene	19.0851	
108-90-7	Chlorobenzene	18.2973	
630-20-6	1,1,1,2-Tetrachloroethane	19.7383	
108383/106423	mp-Xylene	38.7183	
542-75-6	1,3-Dichloropropene, Total	39.6499	

Data File: 316102555.D Page 10
Report Date: 26-Oct-2016 10:32

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2429302
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41258 D8260W

Client SDG: 3161025A.b
Client Smp ID: LCS for HBN 174258
Sample Point:
Date Received: 25-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: CJG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
95-47-6	o-Xylene	19.6571	
100-42-5	Styrene	20.3553	
75-25-2	Bromoform	17.0872	
98-82-8	Isopropylbenzene	20.1898	
1330-20-7	TOTAL XYLENES	58.3753	
103-65-1	n-Propylbenzene	20.0974	
108-86-1	Bromobenzene	18.6143	
79-34-5	1,1,2,2-Tetrachloroethane	19.5895	
108-67-8	1,3,5-Trimethylbenzene	21.0045	
95-49-8	o-Chlorotoluene	20.1275	
96-18-4	1,2,3-Trichloropropane	19.4769	
110-57-6	trans-1,4-Dichloro-2-butene	21.6142	
106-43-4	p-Chlorotoluene	19.9542	
98-06-6	tert-Butylbenzene	20.0166	
76-01-7	Pentachloroethane	19.5575	
95-63-6	1,2,4-Trimethylbenzene	20.8347	
135-98-8	sec-Butylbenzene	20.1002	
99-87-6	p-Isopropyltoluene	20.2894	
541-73-1	1,3-Dichlorobenzene	20.2712	
106-46-7	1,4-Dichlorobenzene	20.4788	
104-51-8	n-Butylbenzene	19.2494	
100-44-7	Benzyl Chloride	16.8535	
67-72-1	Hexachloroethane	17.5102	
95-50-1	1,2-Dichlorobenzene	20.0271	
96-12-8	1,2-Dibromo-3-chloropropane	19.1928	
98-95-3	Nitrobenzene	279.253	
87-68-3	Hexachlorobutadiene	20.3156	
120-82-1	1,2,4-Trichlorobenzene	18.2520	
91-20-3	Naphthalene	15.7803	
87-61-6	1,2,3-Trichlorobenzene	17.7234	
1868-53-7	Dibromofluoromethane	25.0417	
17060-07-0	1,2-Dichloroethane-d4	31.3196	
2037-26-5	Toluene-d8	27.4045	
460-00-4	4-Bromofluorobenzene	27.9734	

Data File: 316102555.D Page 11
Report Date: 26-Oct-2016 10:32

ALS Environmental Services

TENTATIVELY IDENTIFIED COMPOUNDS

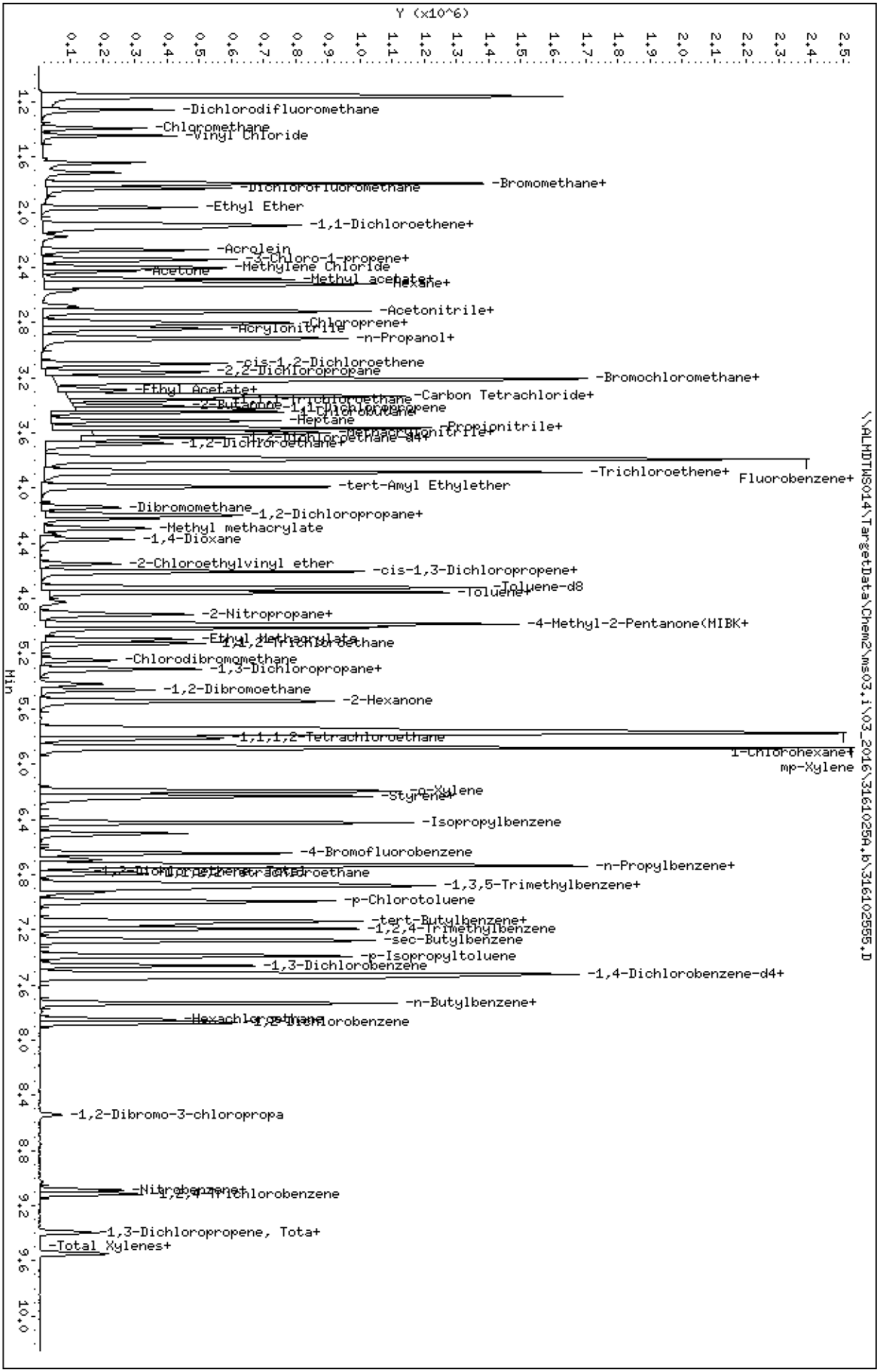
Client Name:
Lab Smp Id: 2429302
Operator : CJG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 25-OCT-2016 23:28

Client SDG: 3161025A.b
Client Smp ID: LCS for HBN 174258
Sample Date:
Sample Point:
Date Received:25-OCT-2016 00:00
Level: LOW

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	1.161	19.0408	_J__
2. 142-28-9	Propane, 1,3-dichloro-	5.313	3.37141	NJ__


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane+
-Ethyl Ether
-1,1-Dichloroethene+
-Acrolein
-Methylene Chloride
-Acetone
-Methyl acetate+
-Acetonitrile+
-Acrylonitrile
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Carbon Tetrachloride+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Trichloroethene+
Fluorobenzene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK+
-Chlorodibromomethane
-1,3-Dichloropropane+
-1,2-Dibromoethane
-2-Hexanone
-1,1,1,2-Tetrachloroethane
1-Chlorohexane+
mp-Xylene
-o-Xylene
-Styrene+
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-1,3-Dichloropropene, Tota+
-Total Xylenes+
Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3161025S5.D
Date : 25-OCT-2016 23:28
Client ID: LCS for HBN 174258
Sample Info: 242302;;1;3;;LCS;1;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\3161025S5.D

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 13

Date : 25-OCT-2016 23:28

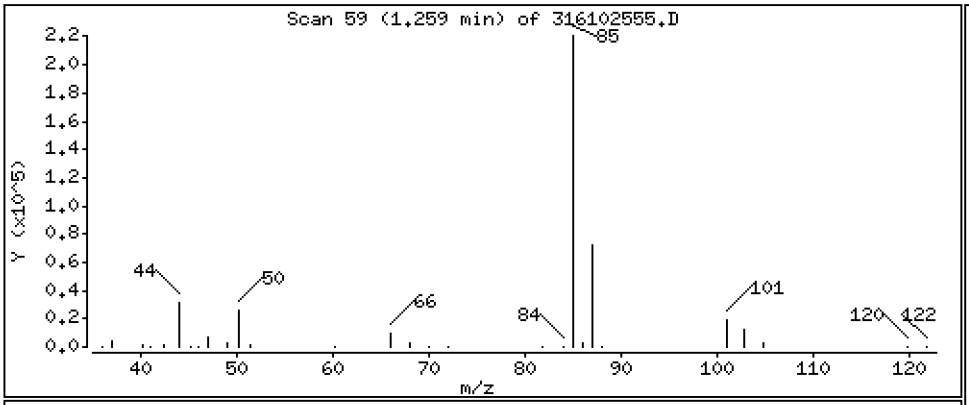
Client ID: LCS for HBN 174258 Instrument: ms03.i

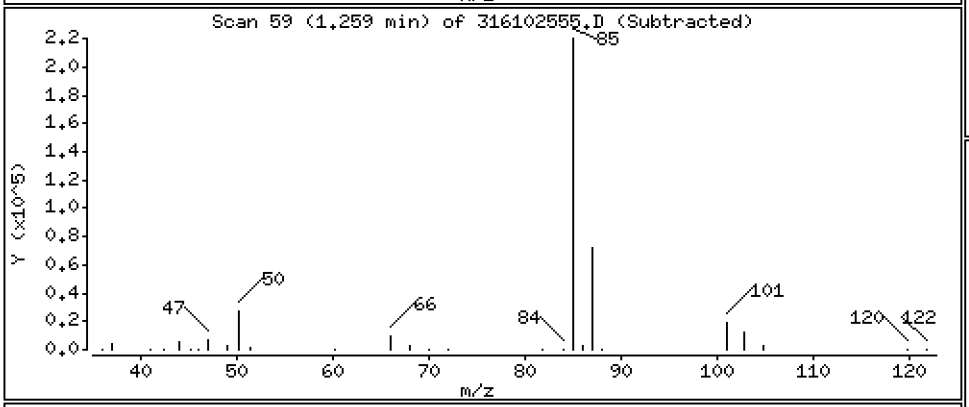
Sample Info: 2429302;;1;3;;LCS;1;

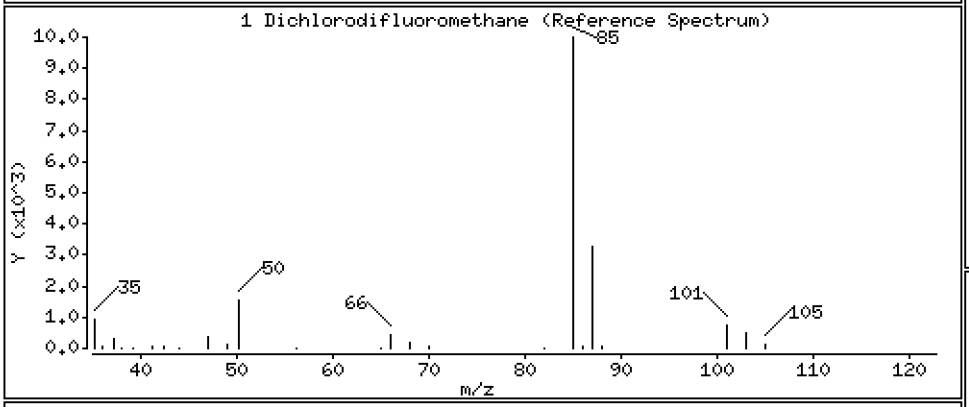
Purge Volume: 5.0 Operator: CJG

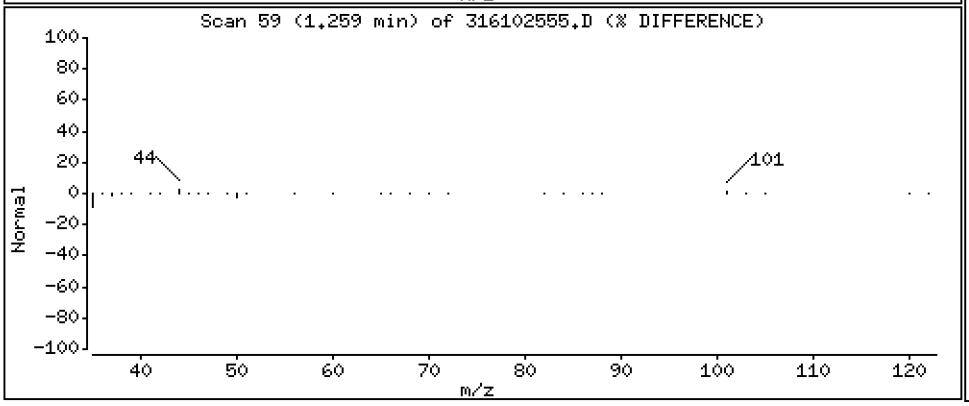
Column phase: DB-VRX Column diameter: 0.25

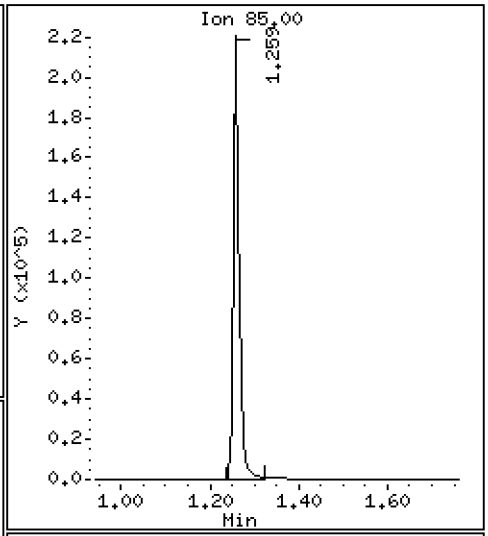
1 Dichlorodifluoromethane Concentration: 16.7333 ug/L

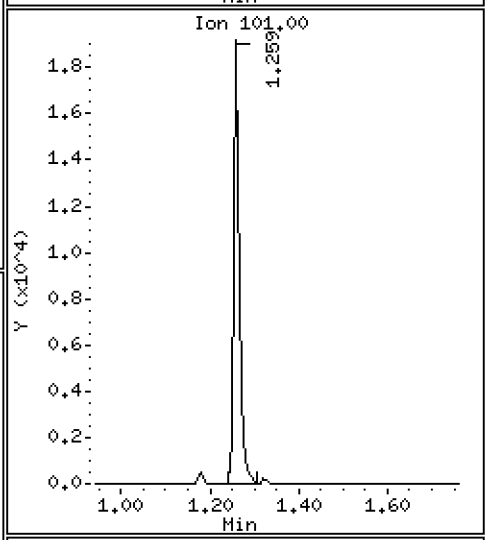


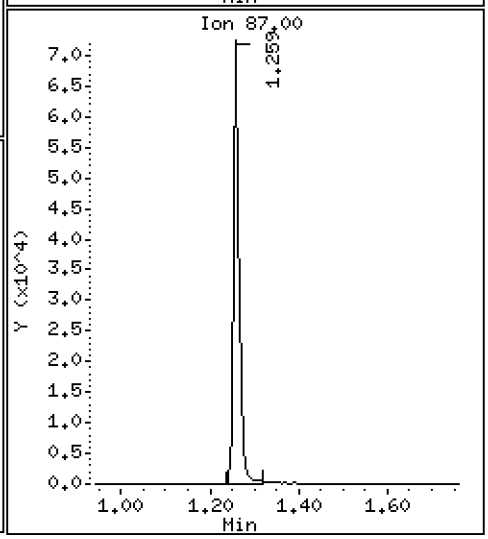












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 14

Date : 25-OCT-2016 23:28

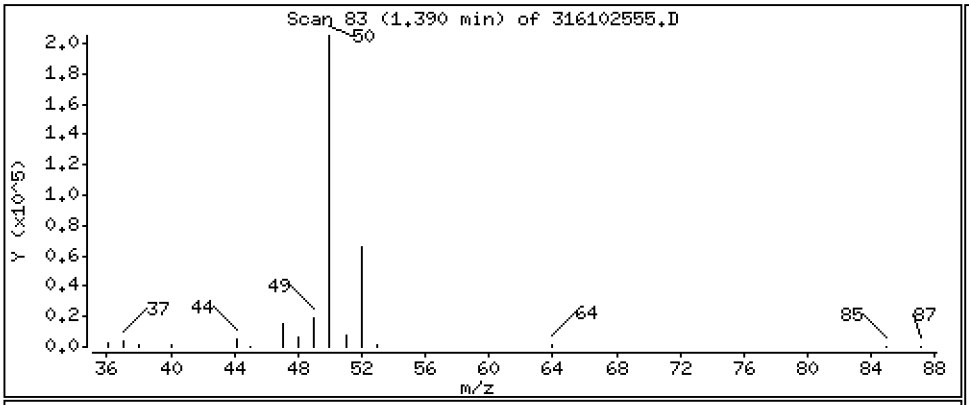
Client ID: LCS for HBN 174258 Instrument: ms03.i

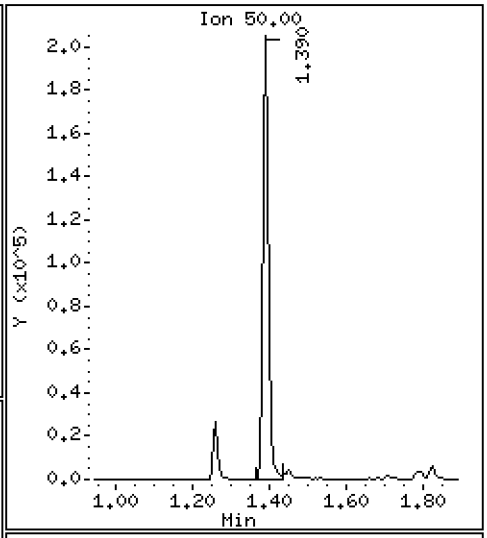
Sample Info: 2429302;;1;3;;LCS;1;

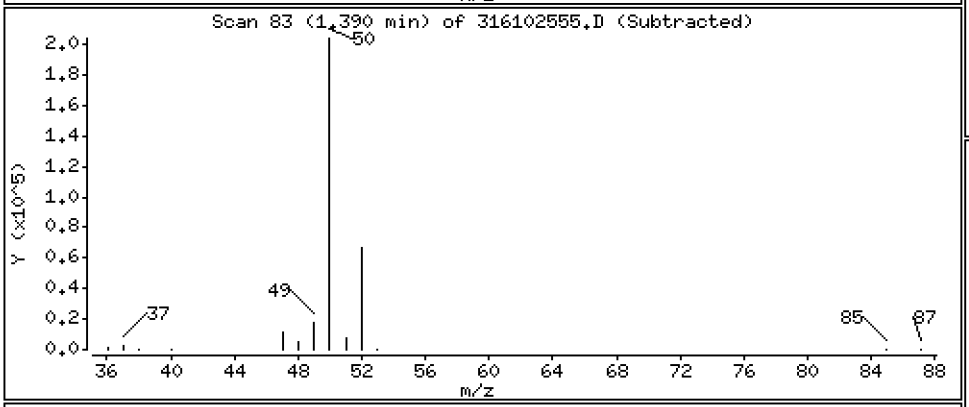
Purge Volume: 5.0 Operator: CJG

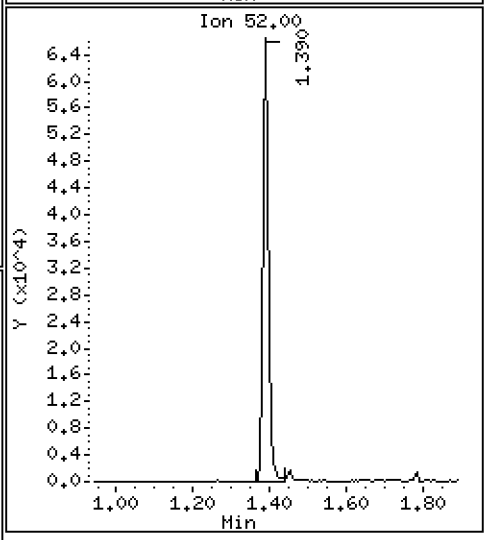
Column phase: DB-VRX Column diameter: 0.25

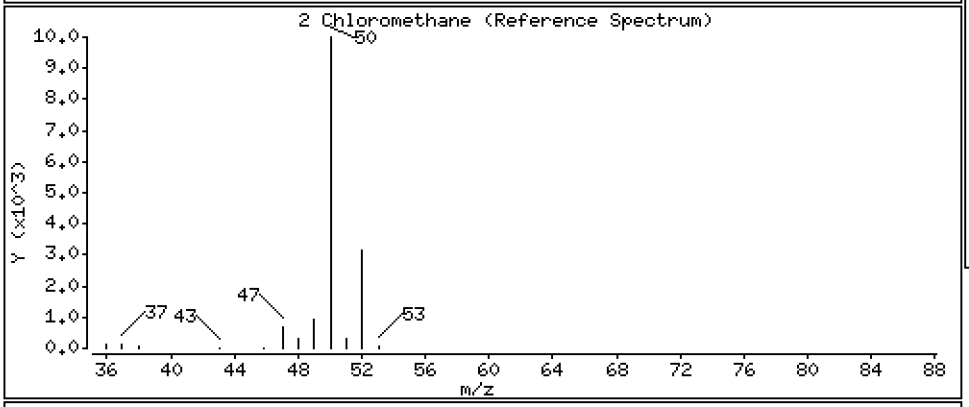
2 Chloromethane Concentration: 19.4289 ug/L

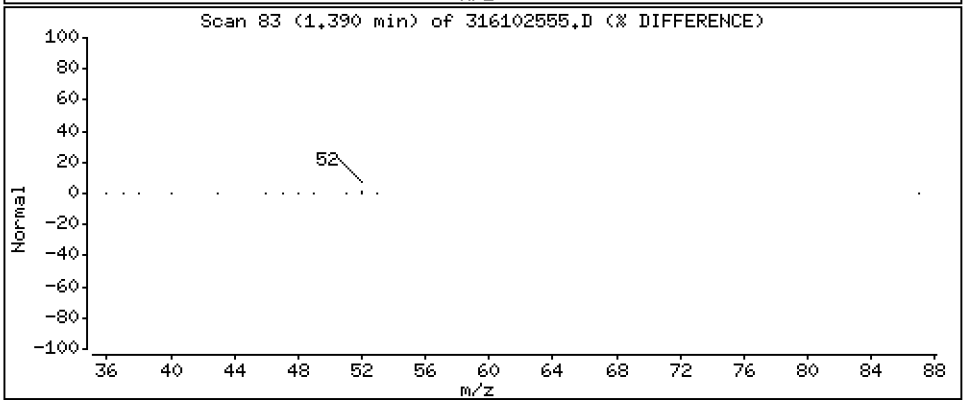












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 15

Date : 25-OCT-2016 23:28

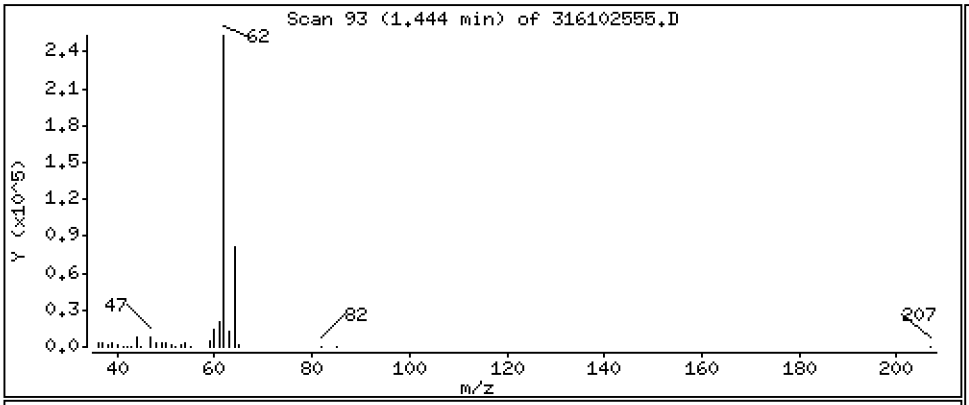
Client ID: LCS for HBN 174258 Instrument: ms03.i

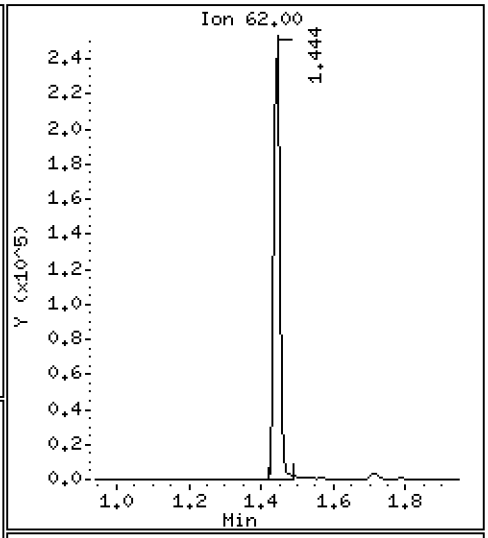
Sample Info: 2429302;;1;3;;LCS;1;

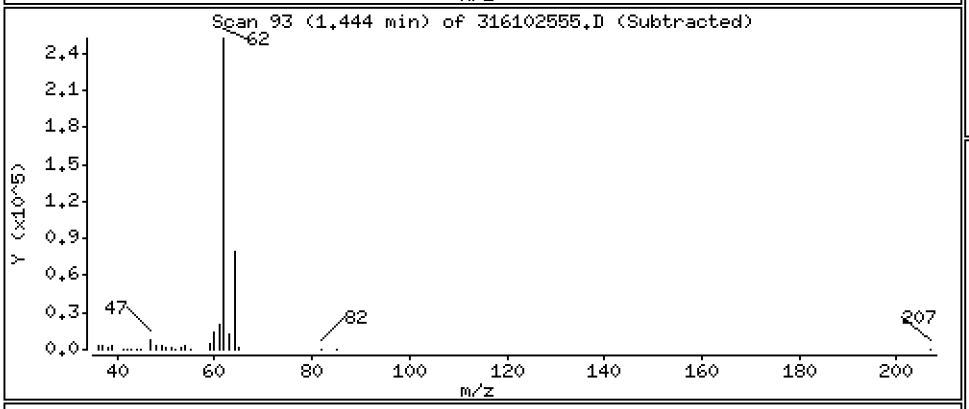
Purge Volume: 5.0 Operator: CJG

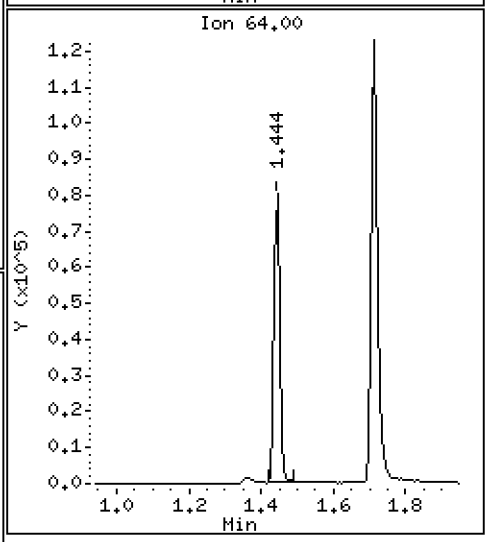
Column phase: DB-VRX Column diameter: 0.25

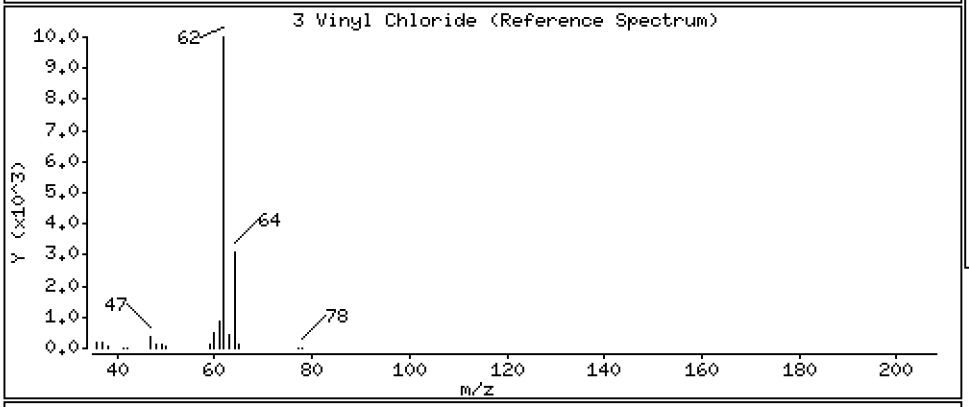
3 Vinyl Chloride Concentration: 19.0974 ug/L

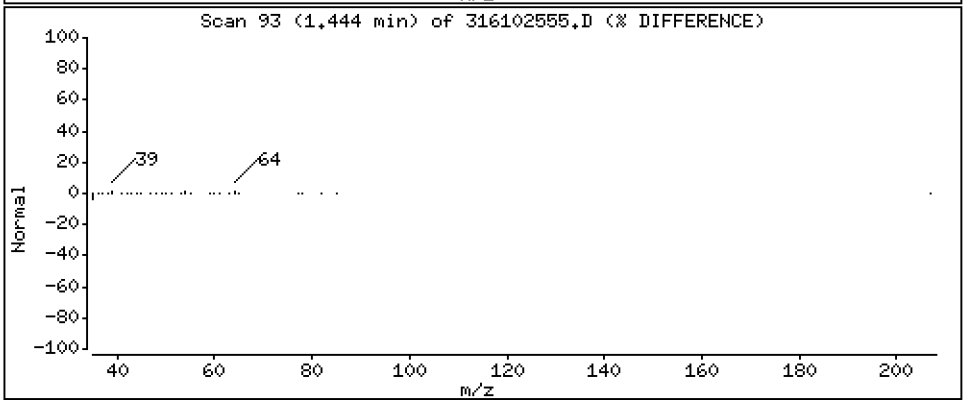












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 16

Date : 25-OCT-2016 23:28

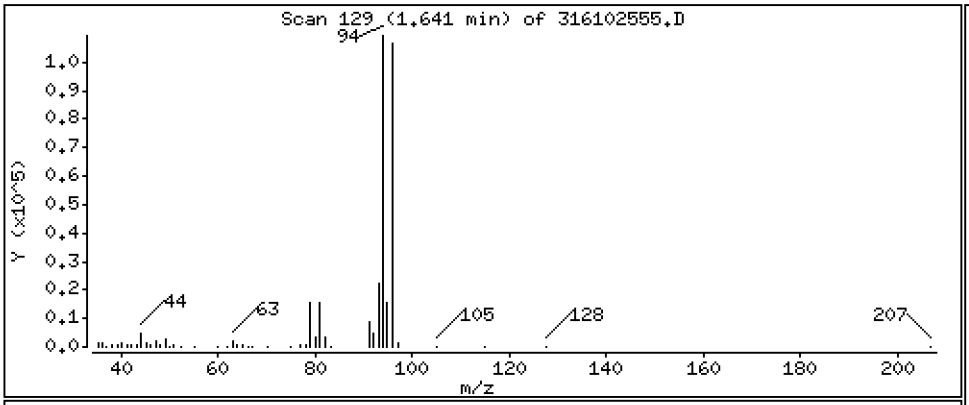
Client ID: LCS for HBN 174258 Instrument: ms03.i

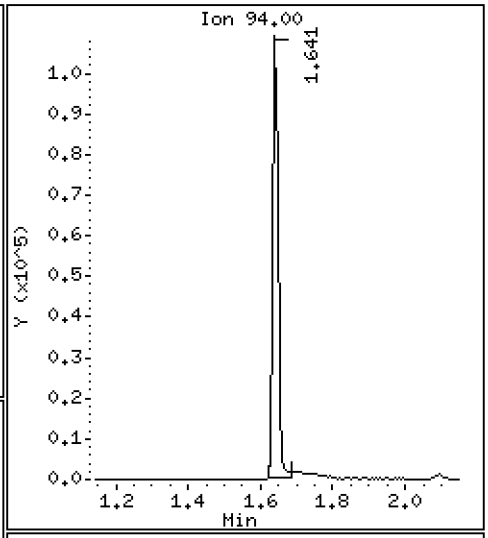
Sample Info: 2429302;;1;3;;LCS;1;

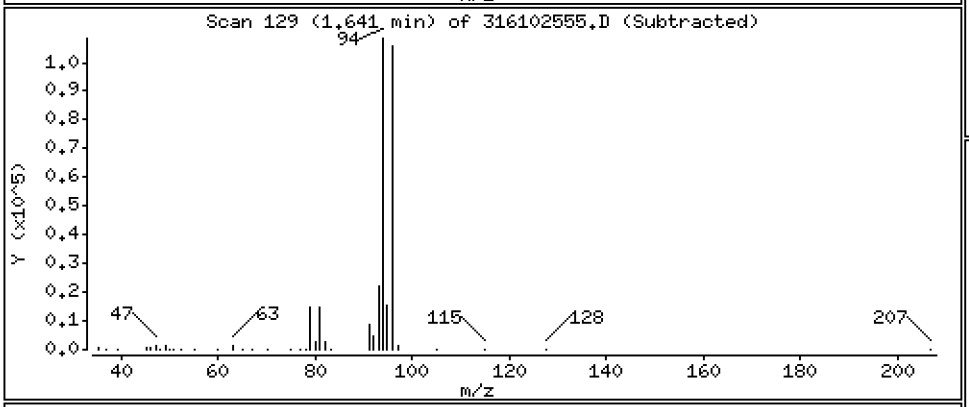
Purge Volume: 5.0 Operator: CJG

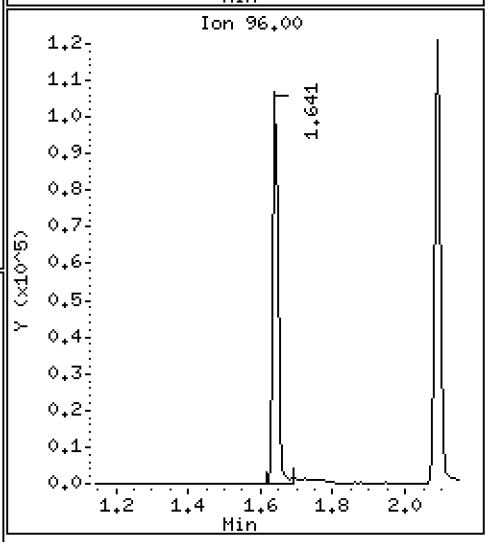
Column phase: DB-VRX Column diameter: 0.25

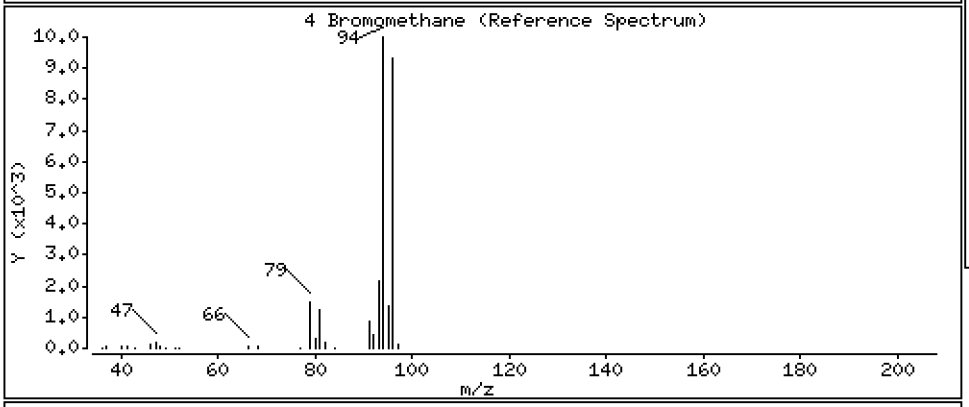
4 Bromomethane Concentration: 19.7752 ug/L

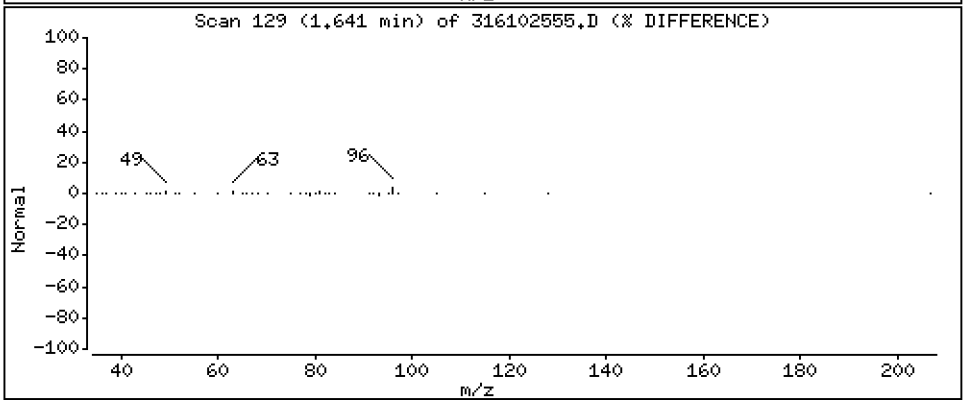












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 17

Date : 25-OCT-2016 23:28

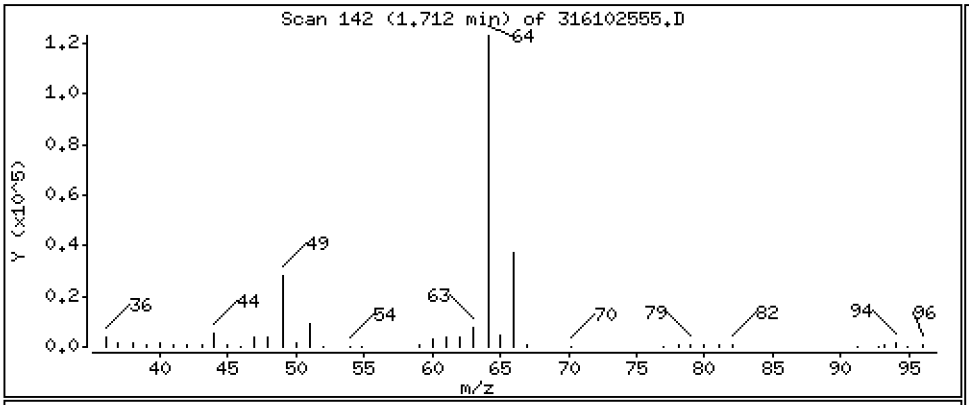
Client ID: LCS for HBN 174258 Instrument: ms03.i

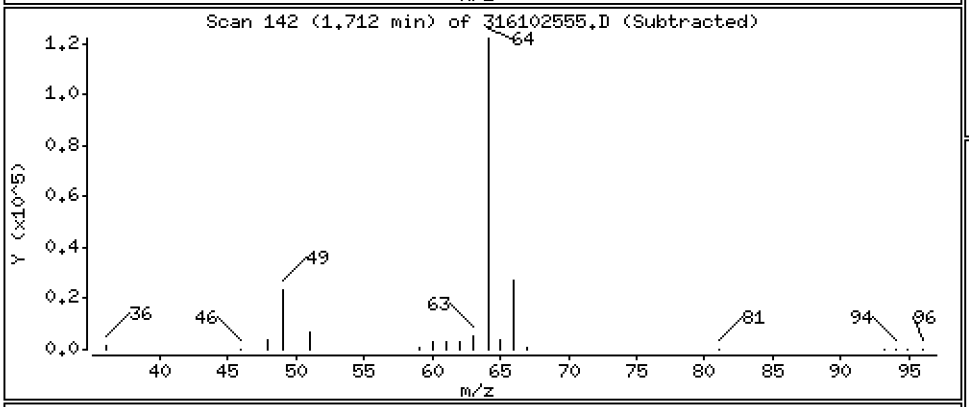
Sample Info: 2429302;;1;3;;LCS;1;

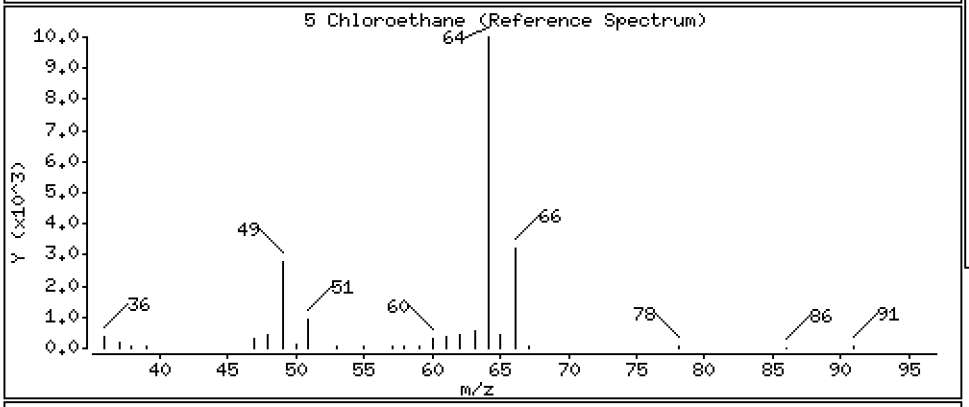
Purge Volume: 5.0 Operator: CJG

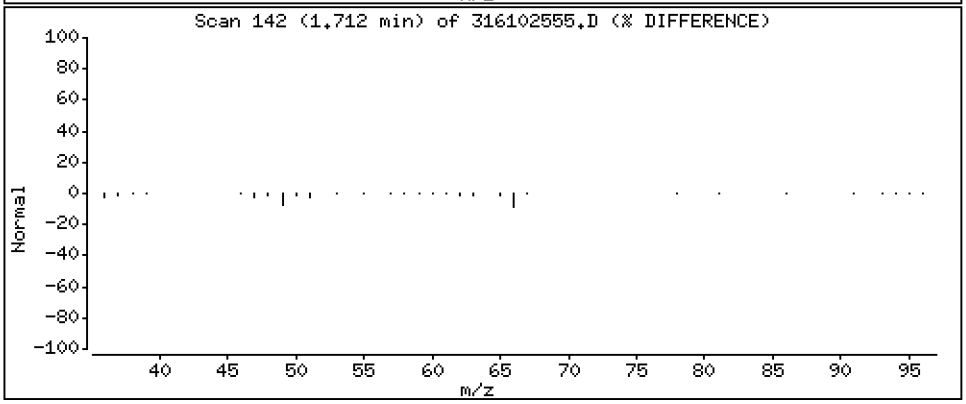
Column phase: DB-VRX Column diameter: 0.25

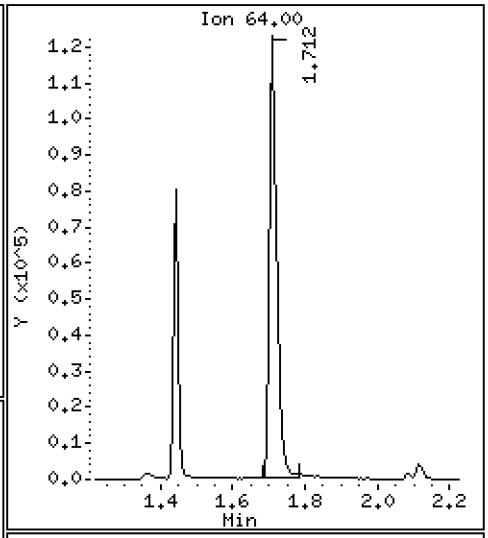
5 Chloroethane Concentration: 20.7387 ug/L

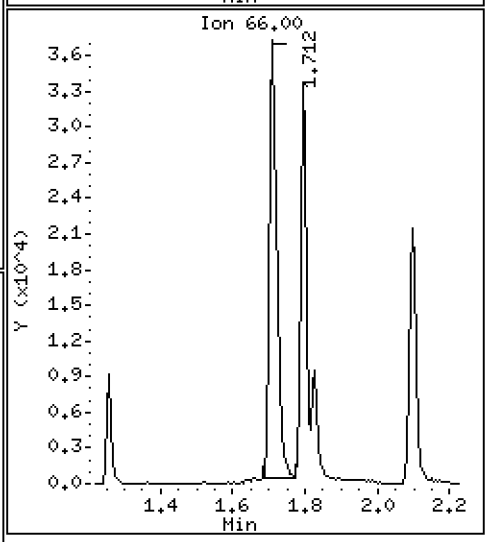












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 18

Date : 25-OCT-2016 23:28

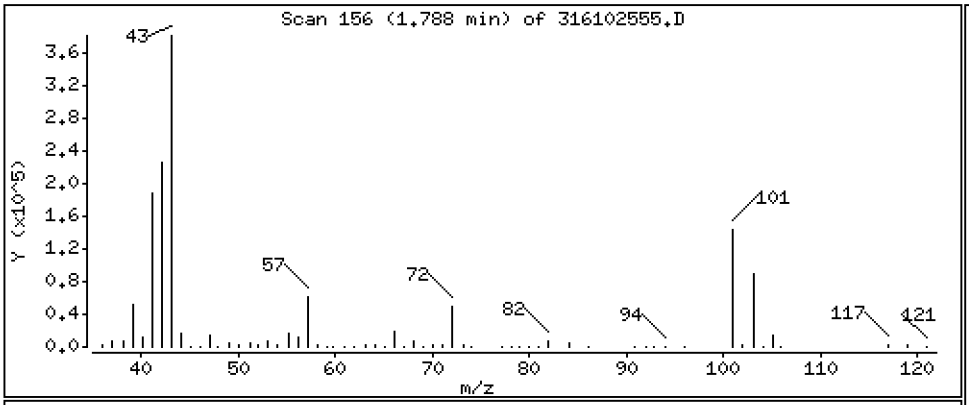
Client ID: LCS for HBN 174258 Instrument: ms03.i

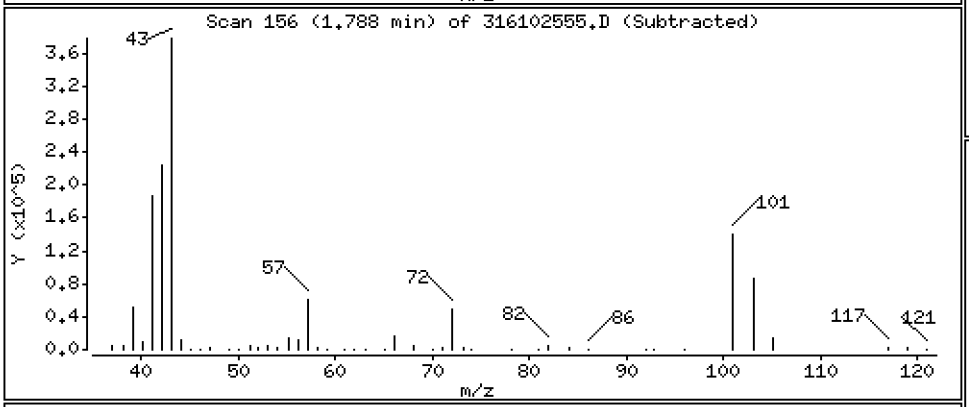
Sample Info: 2429302;;1;3;;LCS;1;

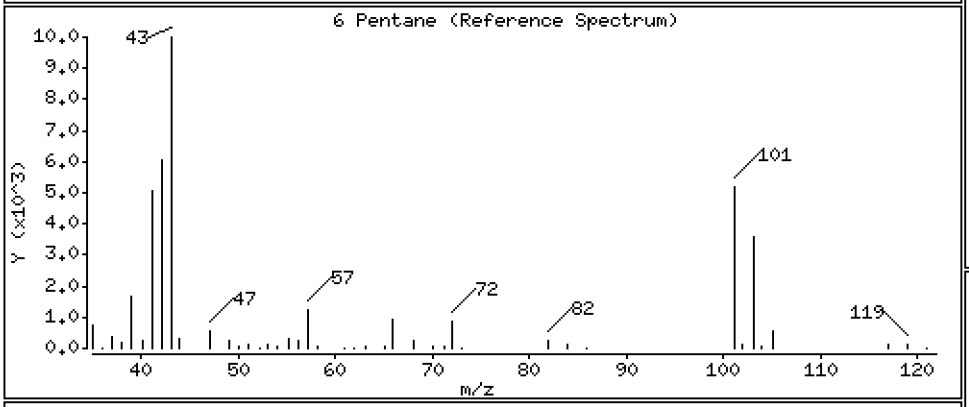
Purge Volume: 5.0 Operator: CJG

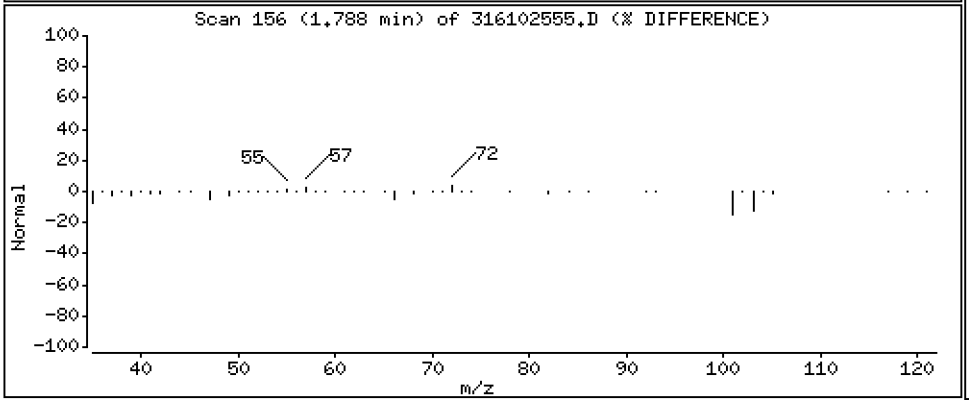
Column phase: DB-VRX Column diameter: 0.25

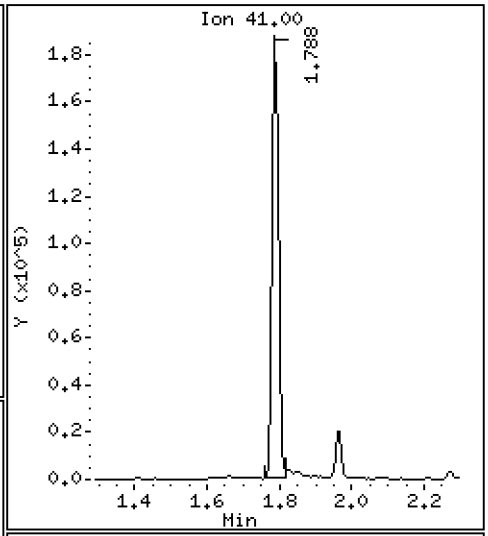
6 Pentane Concentration: 29.3868 ug/L

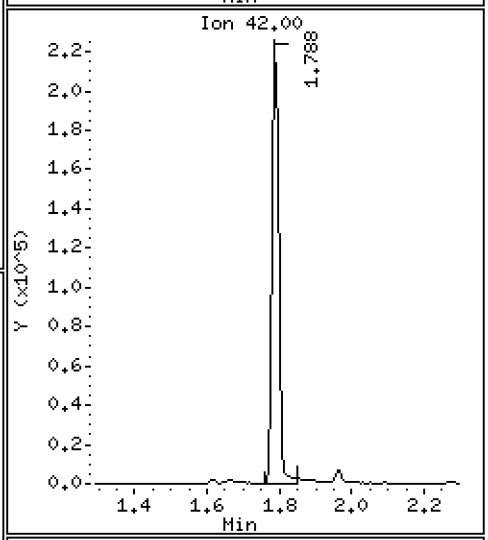


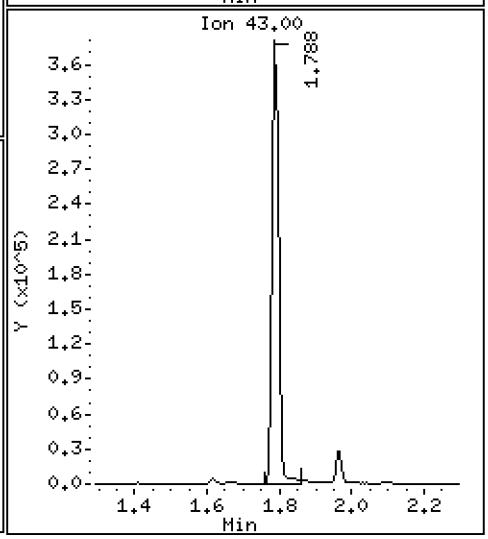












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 19

Date : 25-OCT-2016 23:28

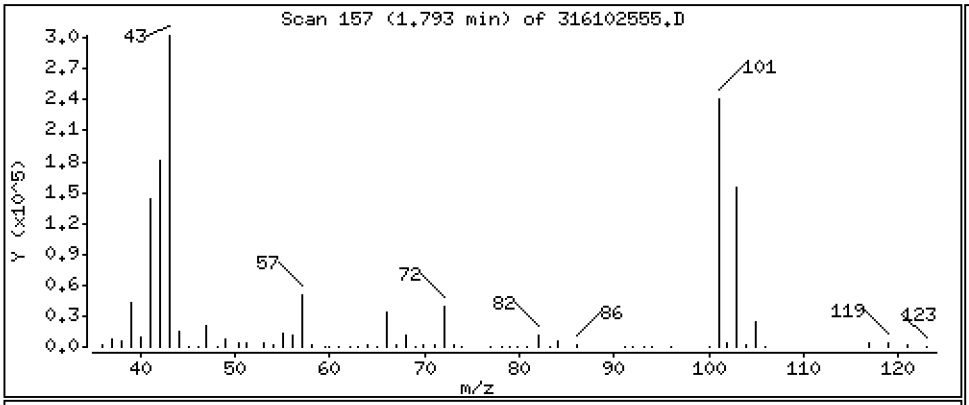
Client ID: LCS for HBN 174258 Instrument: ms03.i

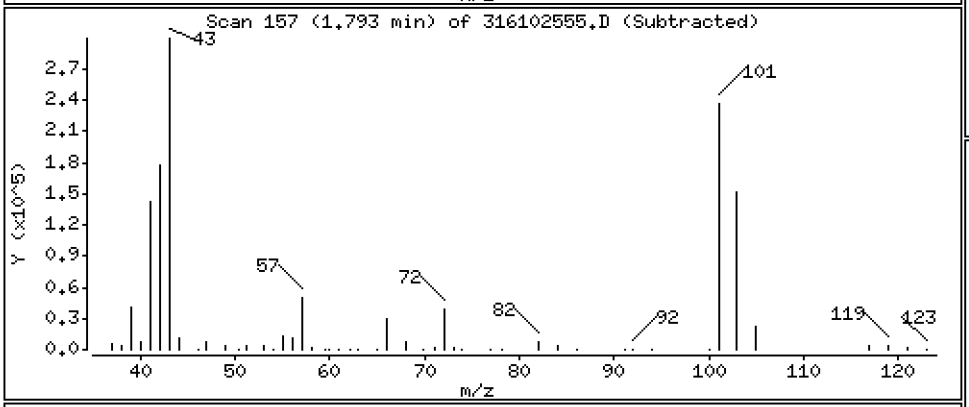
Sample Info: 2429302;;1;3;;LCS;1;

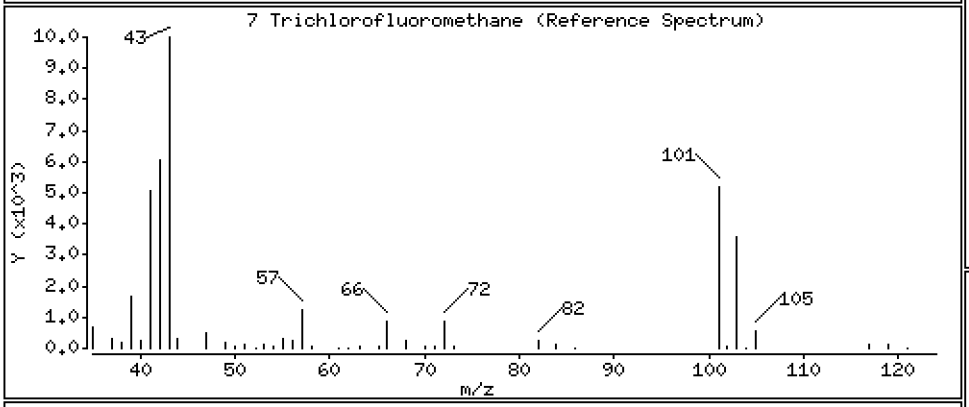
Purge Volume: 5.0 Operator: CJG

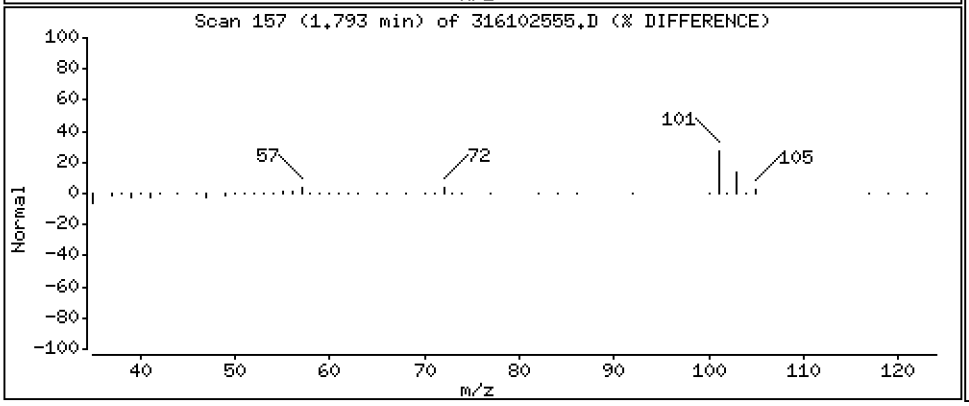
Column phase: DB-VRX Column diameter: 0.25

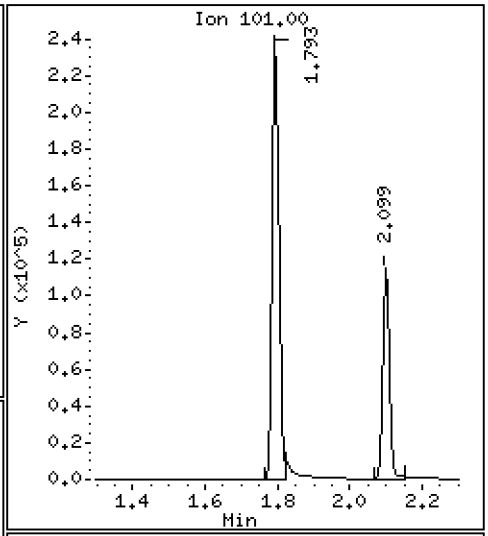
7 Trichlorofluoromethane Concentration: 19.8346 ug/L

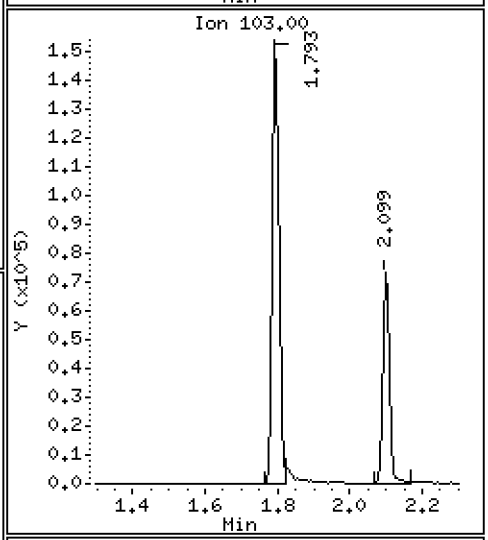


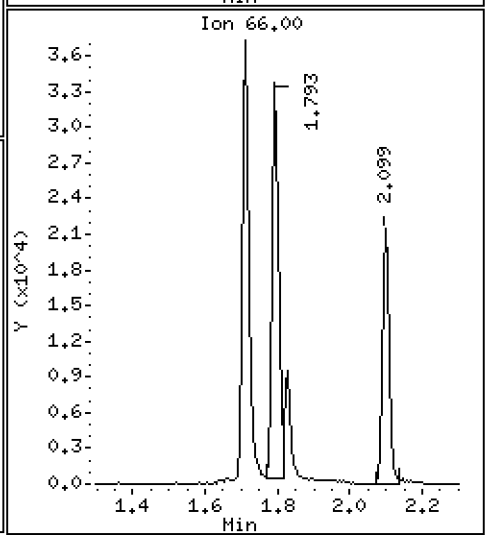












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 20

Date : 25-OCT-2016 23:28

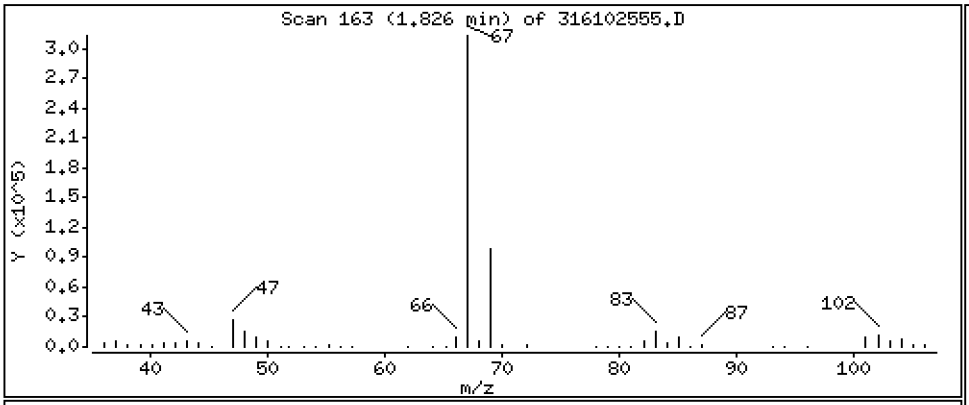
Client ID: LCS for HBN 174258 Instrument: ms03.i

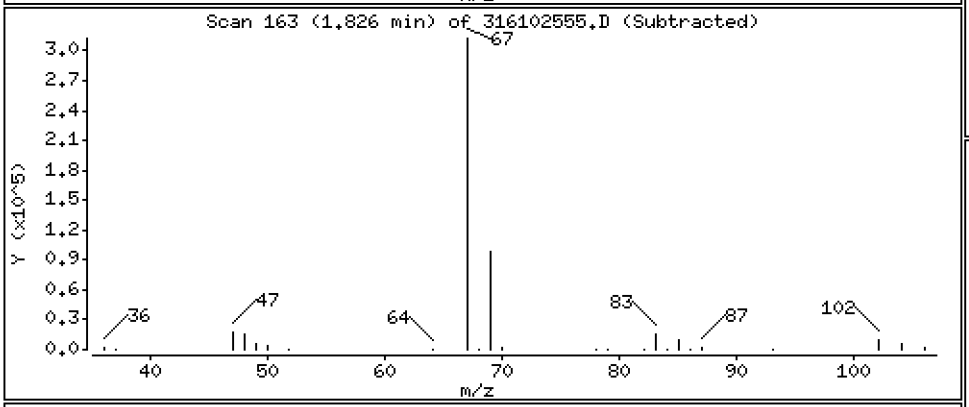
Sample Info: 2429302;;1;3;;LCS;1;

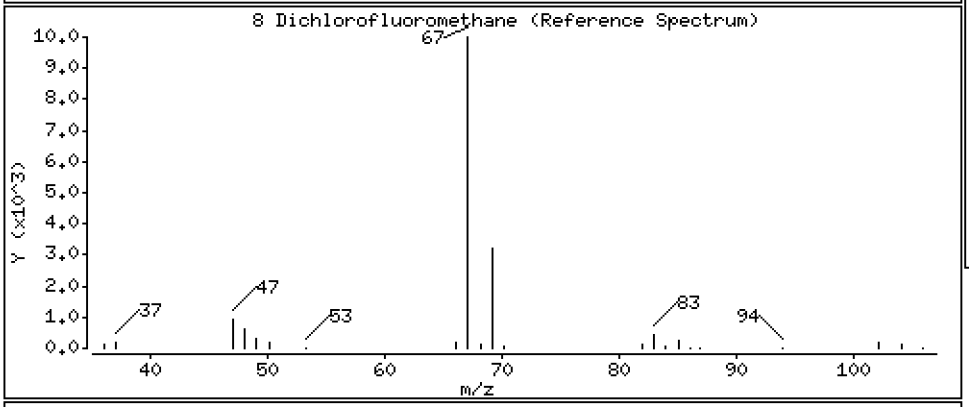
Purge Volume: 5.0 Operator: CJG

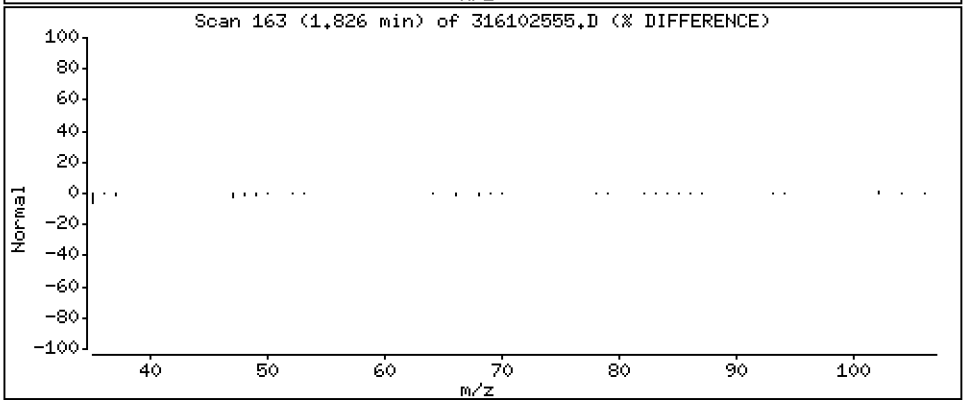
Column phase: DB-VRX Column diameter: 0.25

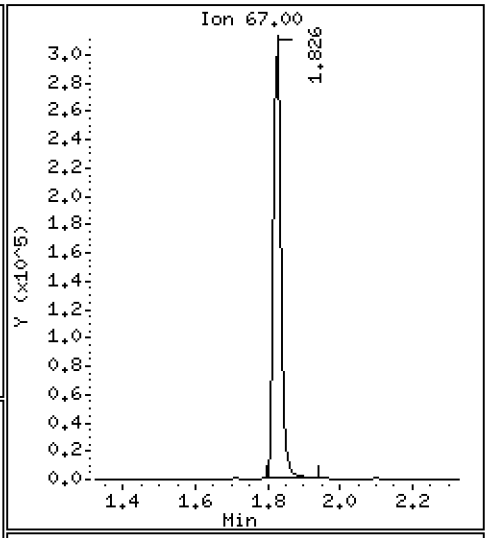
8 Dichlorofluoromethane Concentration: 20.6512 ug/L

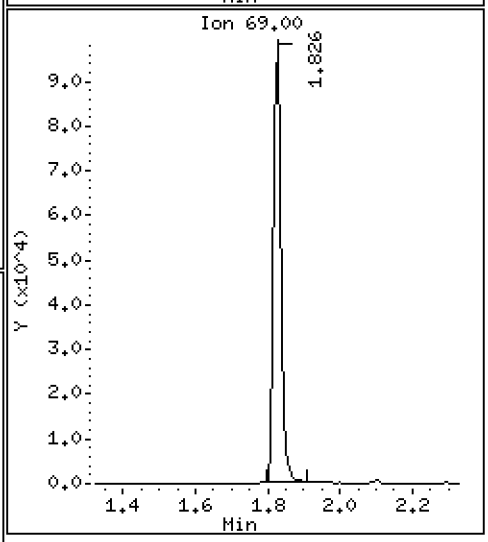












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 21

Date : 25-OCT-2016 23:28

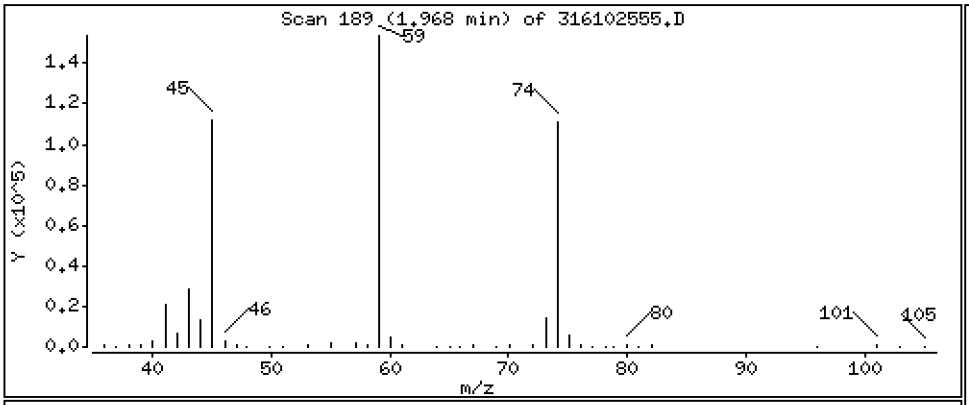
Client ID: LCS for HBN 174258 Instrument: ms03.i

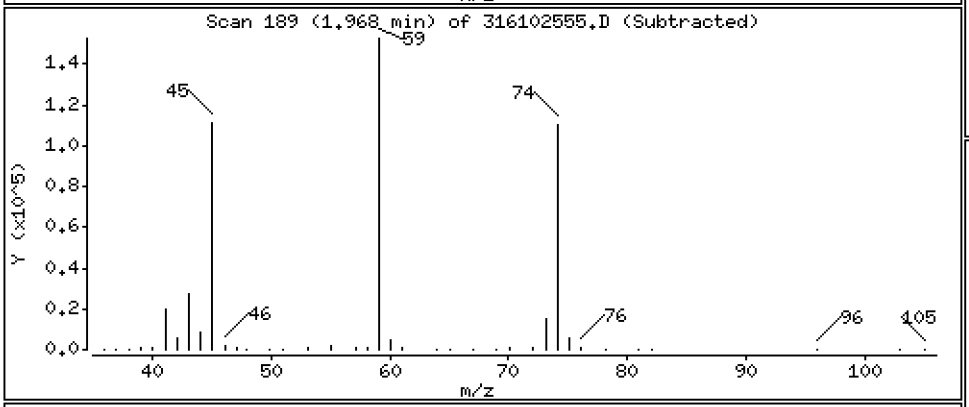
Sample Info: 2429302;;1;3;;LCS;1;

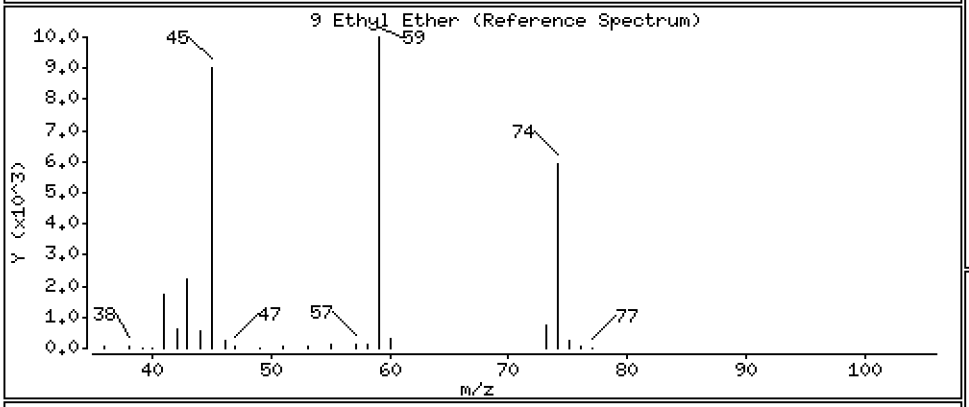
Purge Volume: 5.0 Operator: CJG

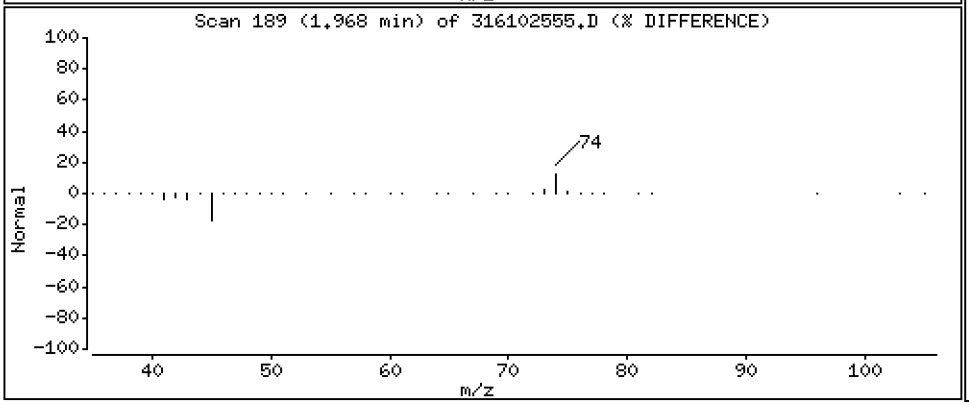
Column phase: DB-VRX Column diameter: 0.25

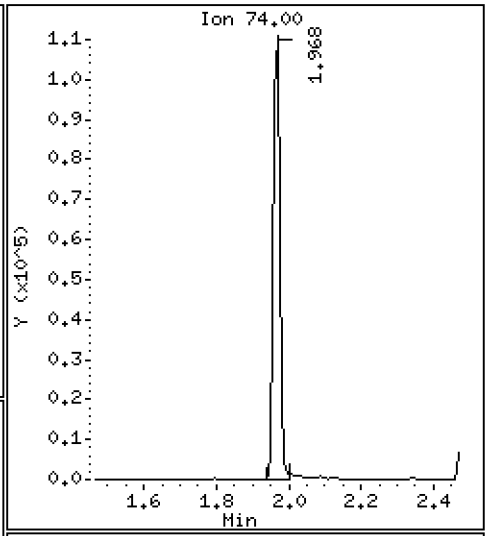
9 Ethyl Ether Concentration: 18.8613 ug/L

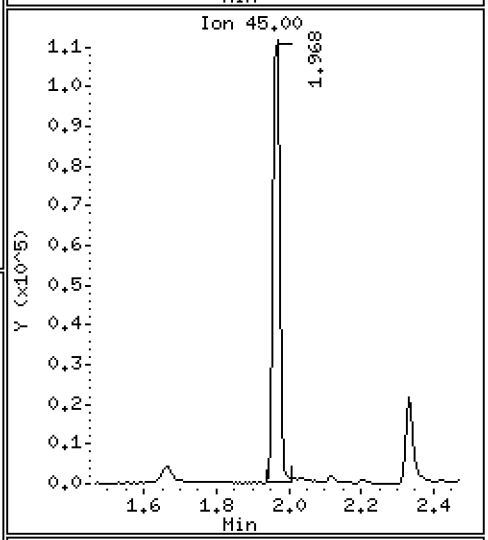


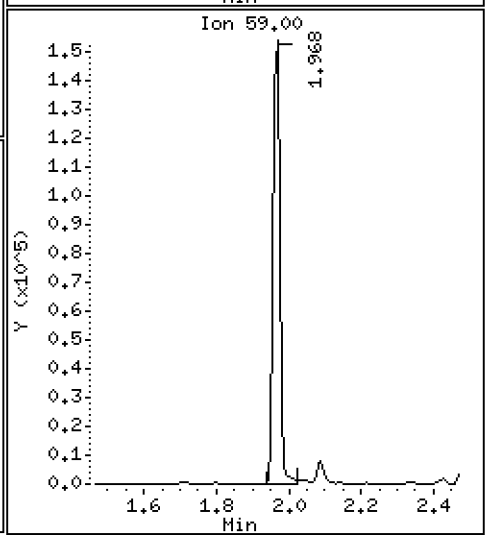












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 22

Date : 25-OCT-2016 23:28

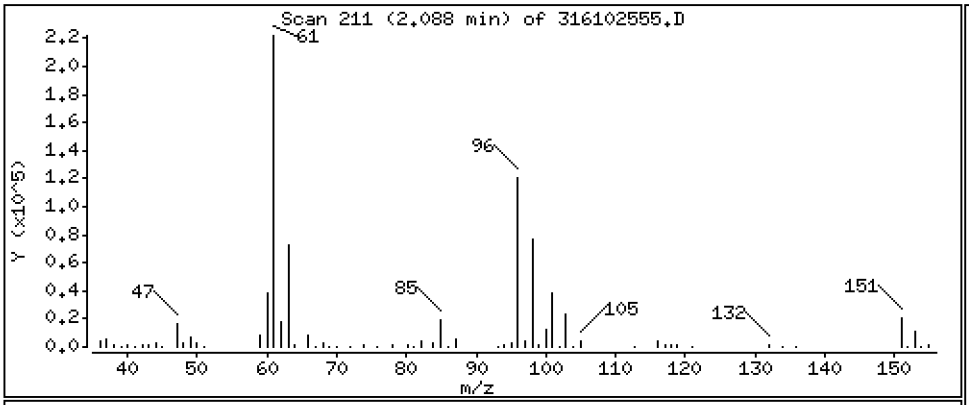
Client ID: LCS for HBN 174258 Instrument: ms03.i

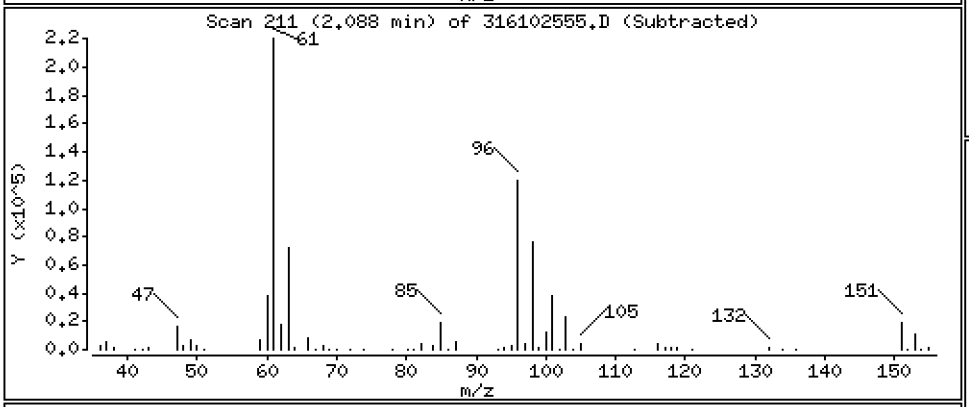
Sample Info: 2429302;;1;3;;LCS;1;

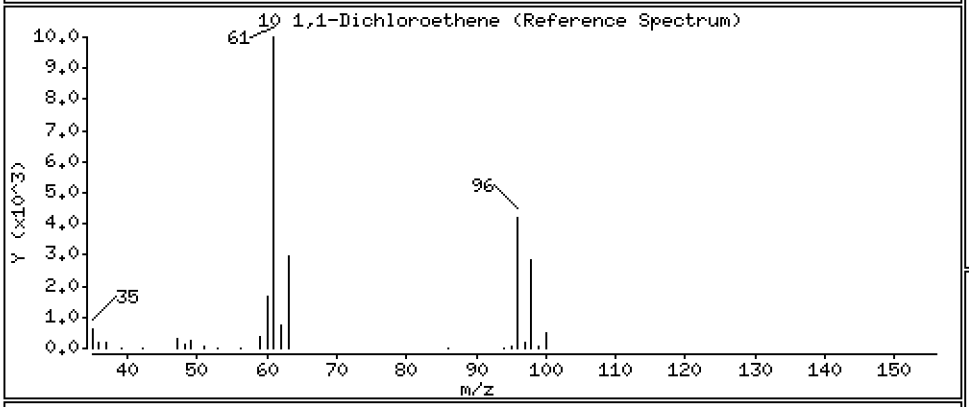
Purge Volume: 5.0 Operator: CJG

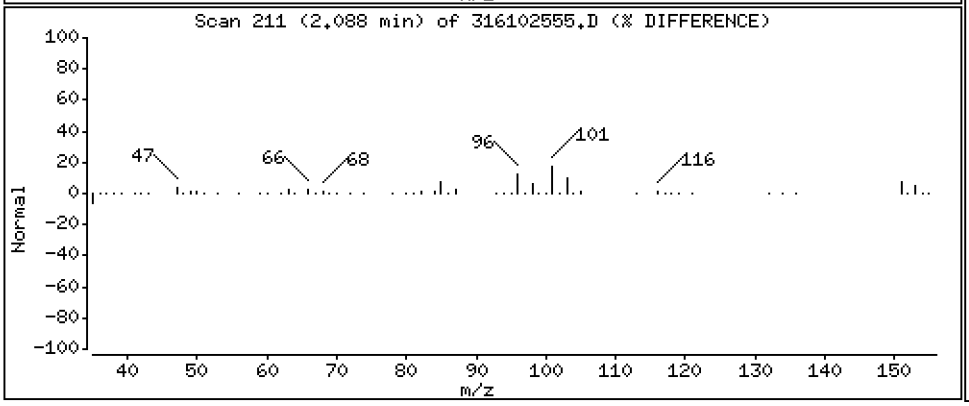
Column phase: DB-VRX Column diameter: 0.25

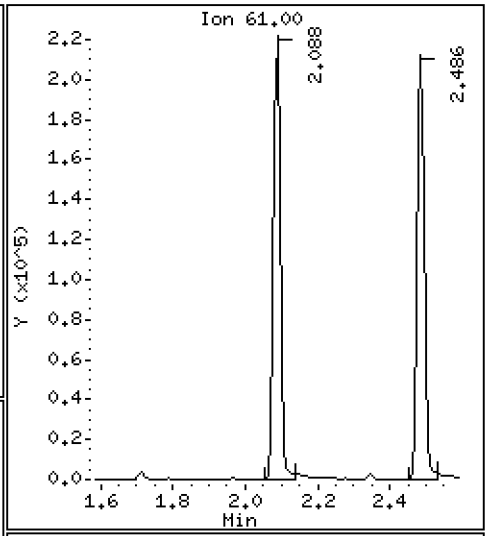
10 1,1-Dichloroethene Concentration: 19.7706 ug/L

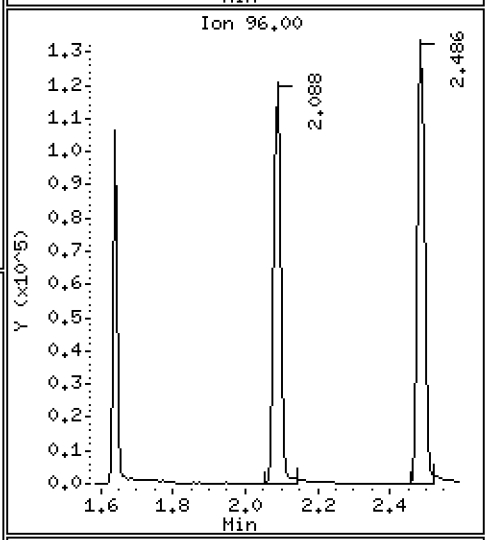


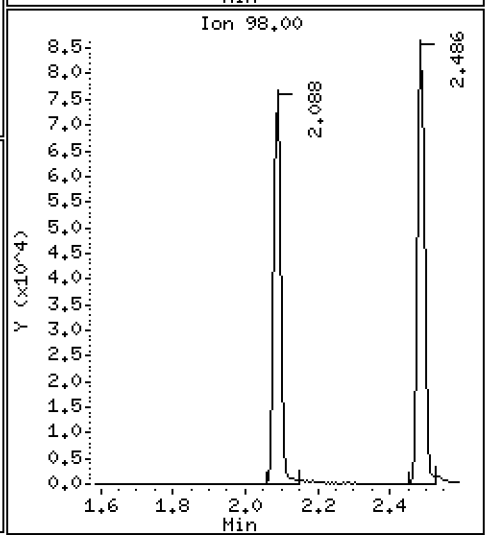












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 23

Date : 25-OCT-2016 23:28

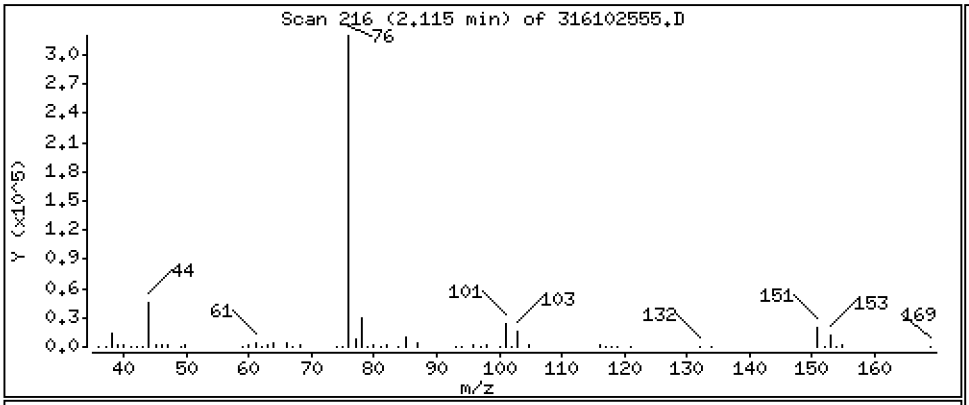
Client ID: LCS for HBN 174258 Instrument: ms03.i

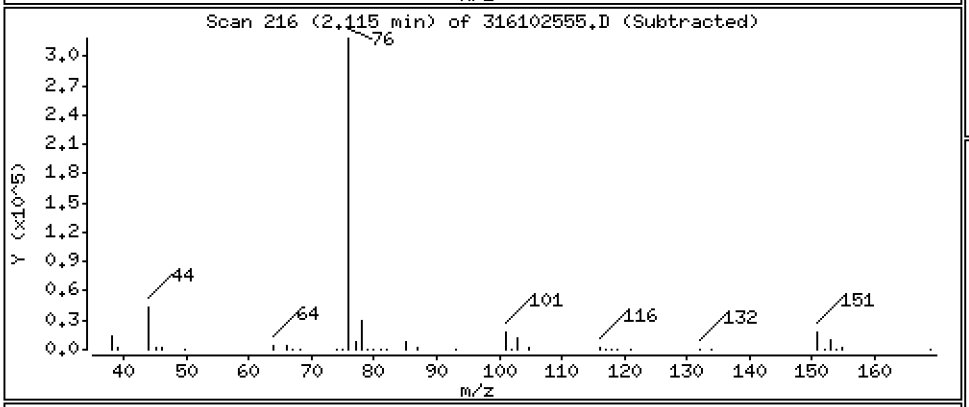
Sample Info: 2429302;;1;3;;LCS;1;

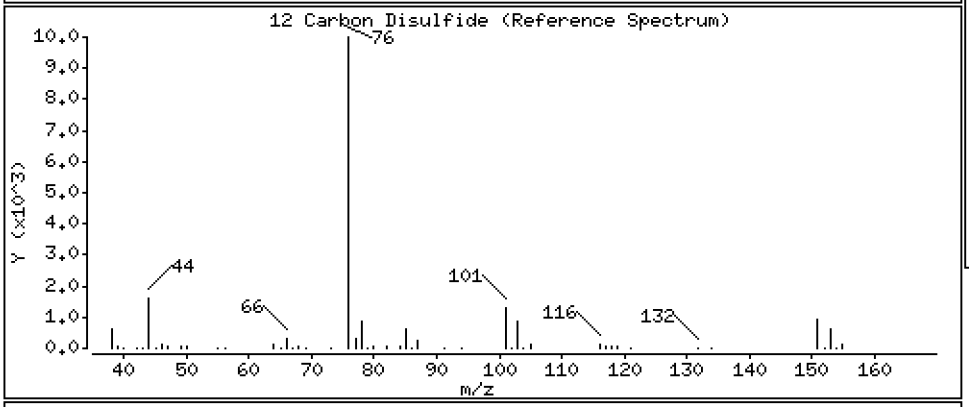
Purge Volume: 5.0 Operator: CJG

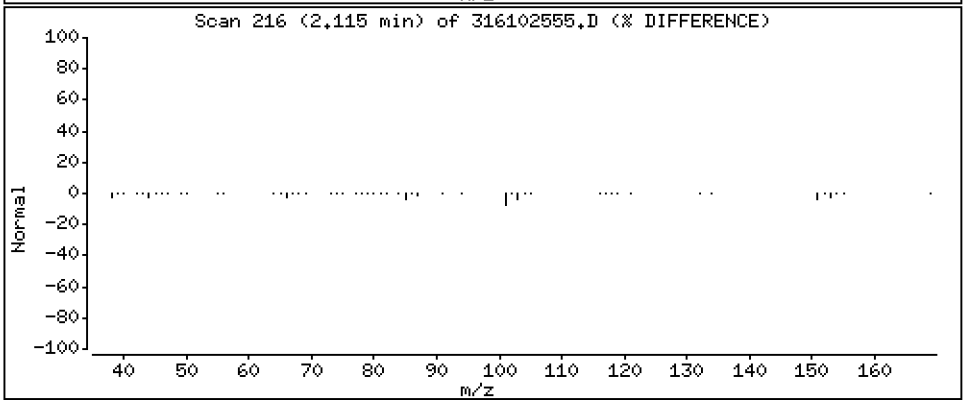
Column phase: DB-VRX Column diameter: 0.25

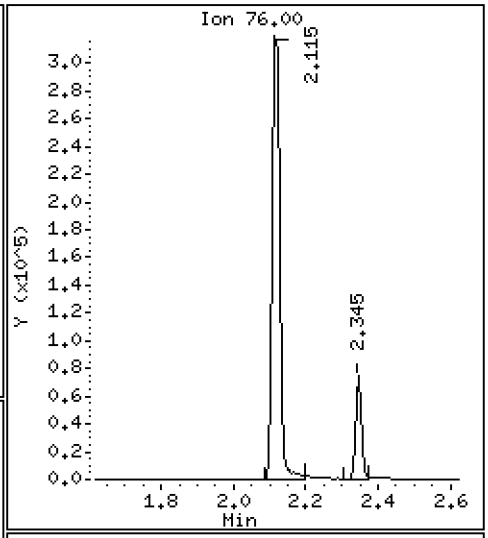
12 Carbon Disulfide Concentration: 18.2028 ug/L

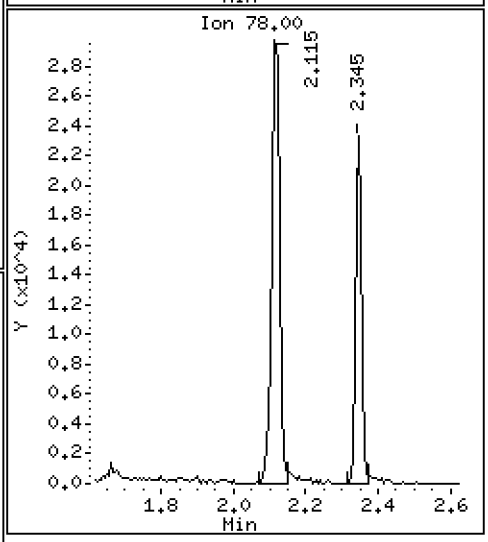












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 24

Date : 25-OCT-2016 23:28

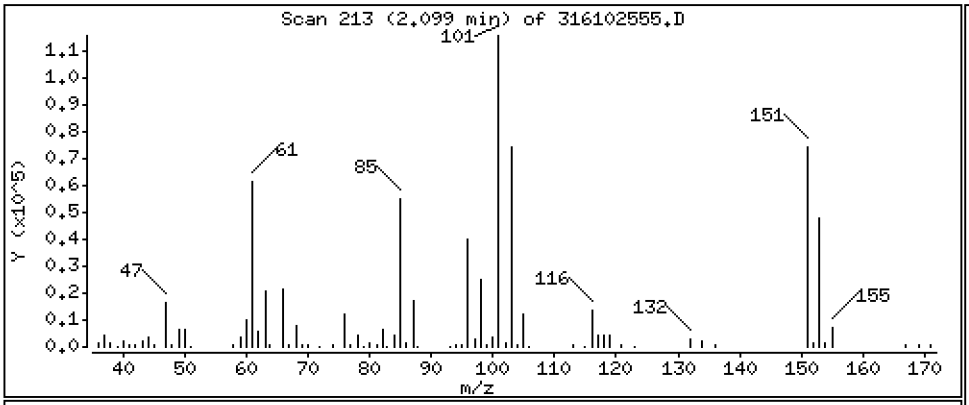
Client ID: LCS for HBN 174258 Instrument: ms03.i

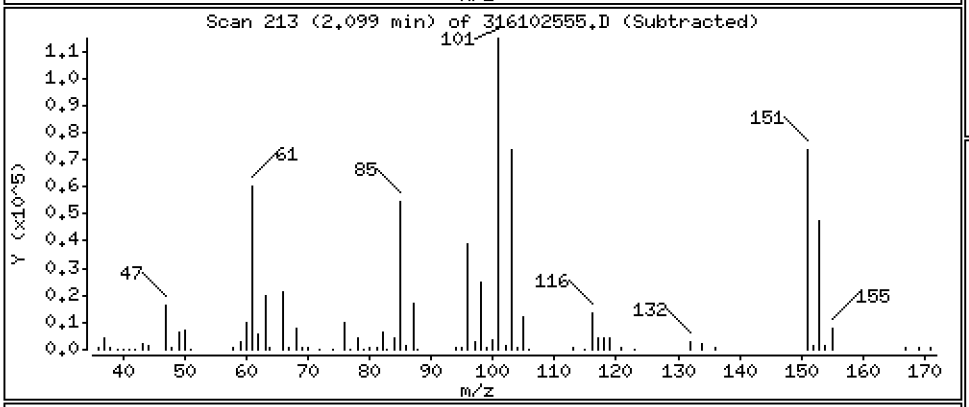
Sample Info: 2429302;;1;3;;LCS;1;

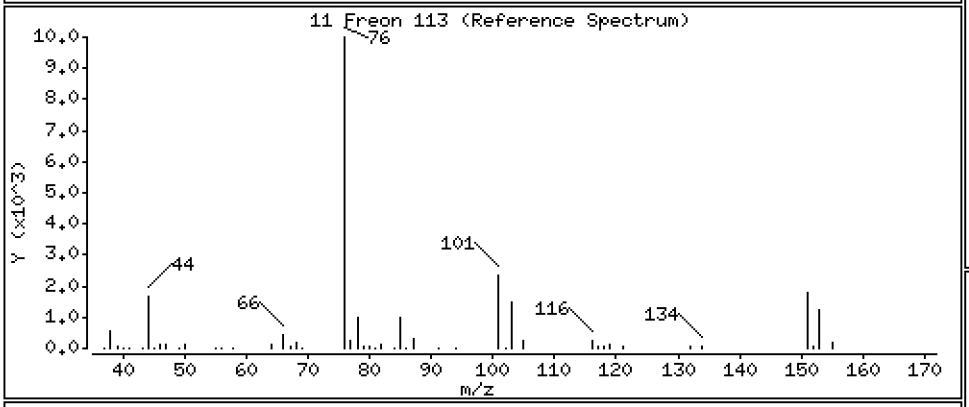
Purge Volume: 5.0 Operator: CJG

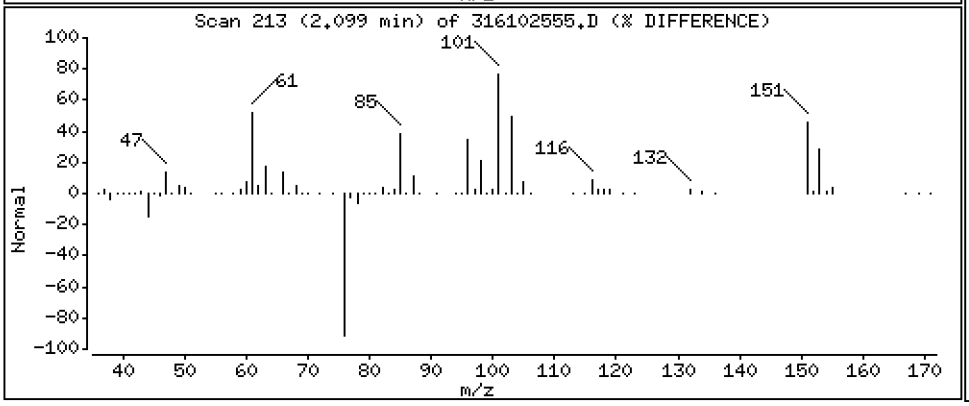
Column phase: DB-VRX Column diameter: 0.25

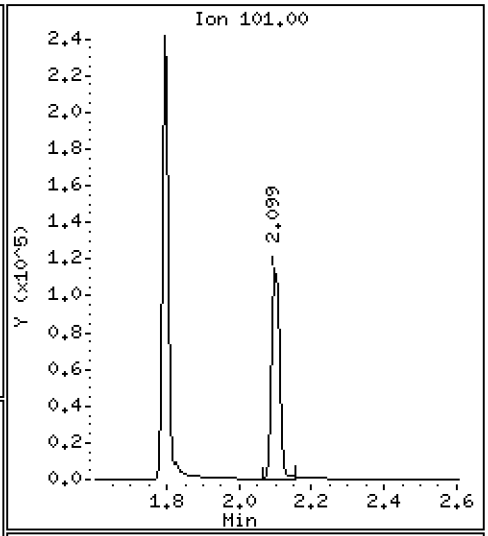
11 Freon 113 Concentration: 21.1060 ug/L

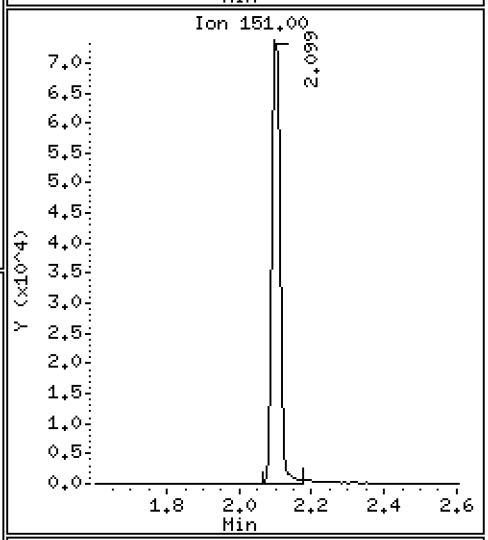


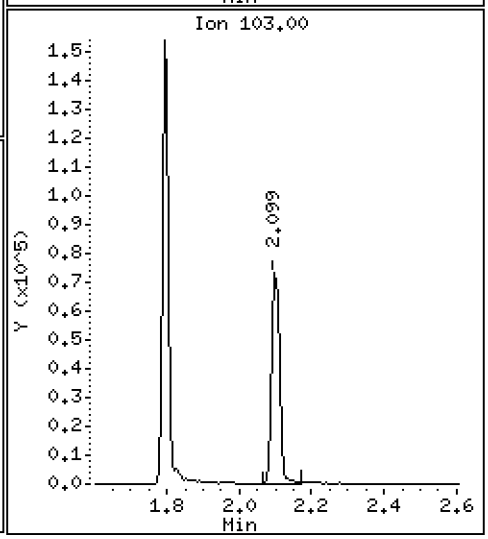












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 25

Date : 25-OCT-2016 23:28

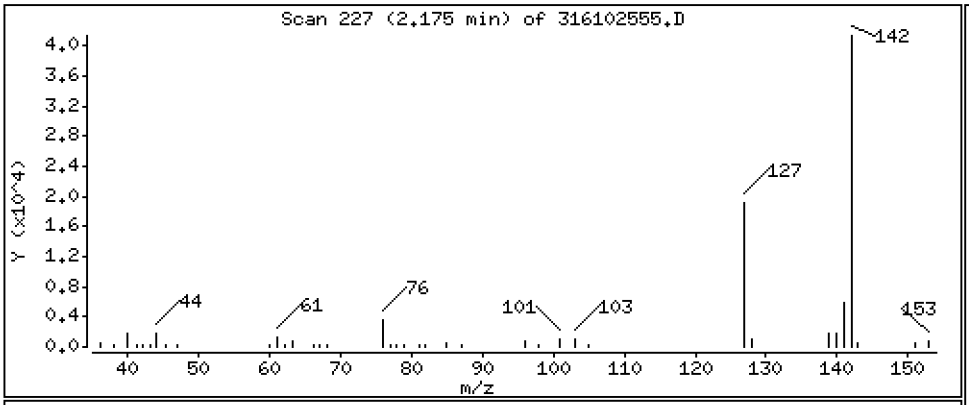
Client ID: LCS for HBN 174258 Instrument: ms03.i

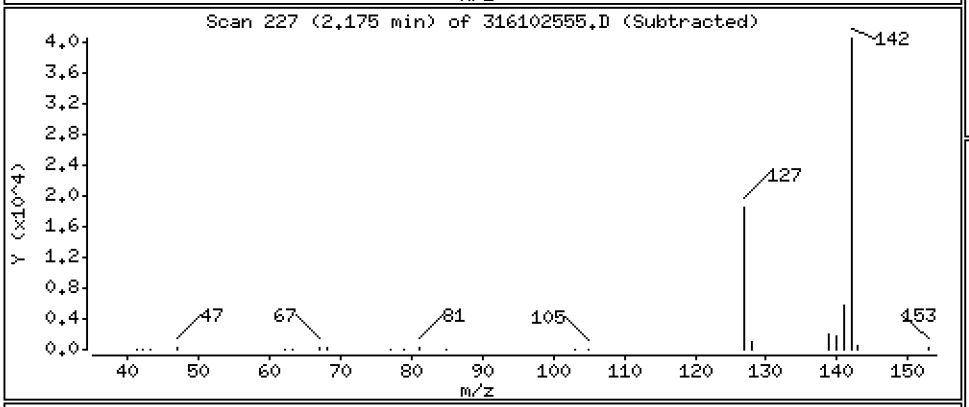
Sample Info: 2429302;;1;3;;LCS;1;

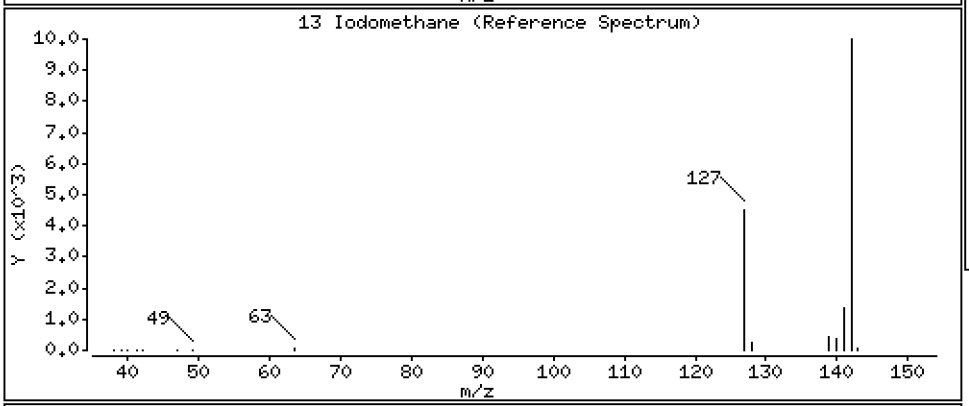
Purge Volume: 5.0 Operator: CJG

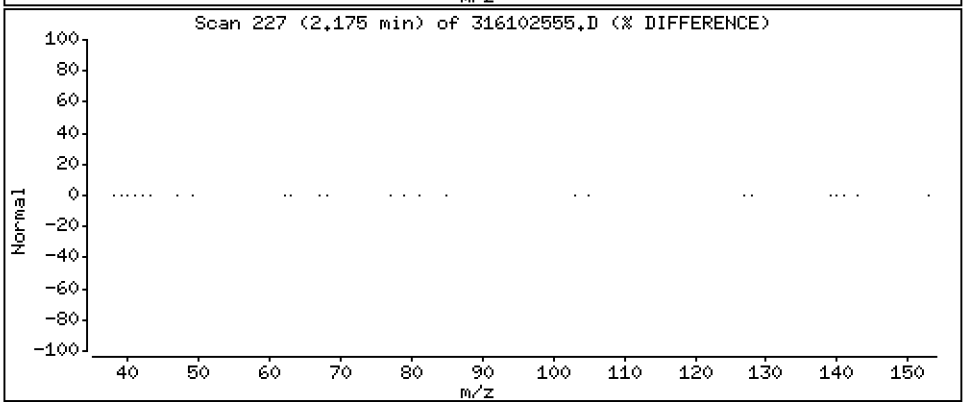
Column phase: DB-VRX Column diameter: 0.25

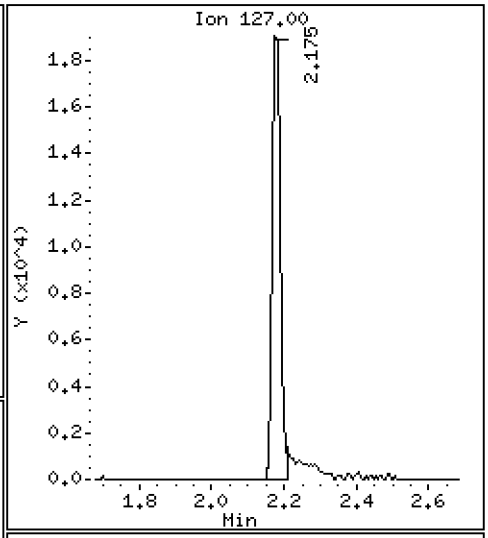
13 Iodomethane Concentration: 16.0479 ug/L

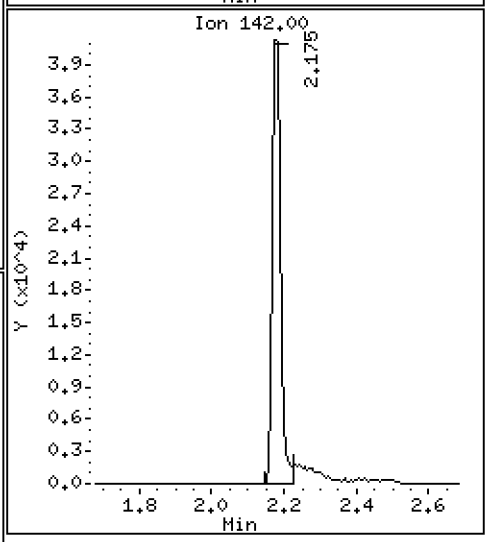












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 26

Date : 25-OCT-2016 23:28

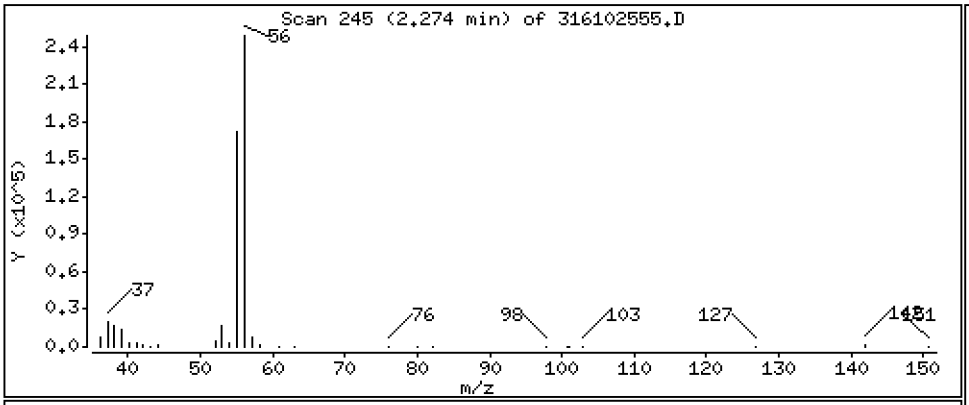
Client ID: LCS for HBN 174258 Instrument: ms03.i

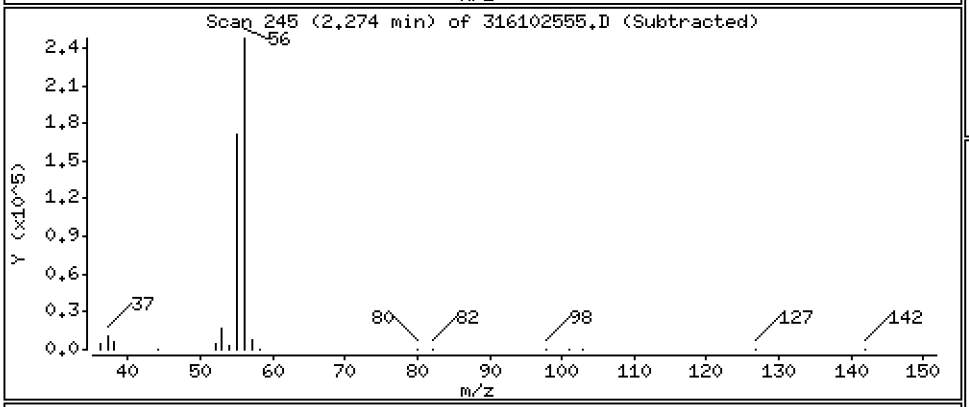
Sample Info: 2429302;;1;3;;LCS;1;

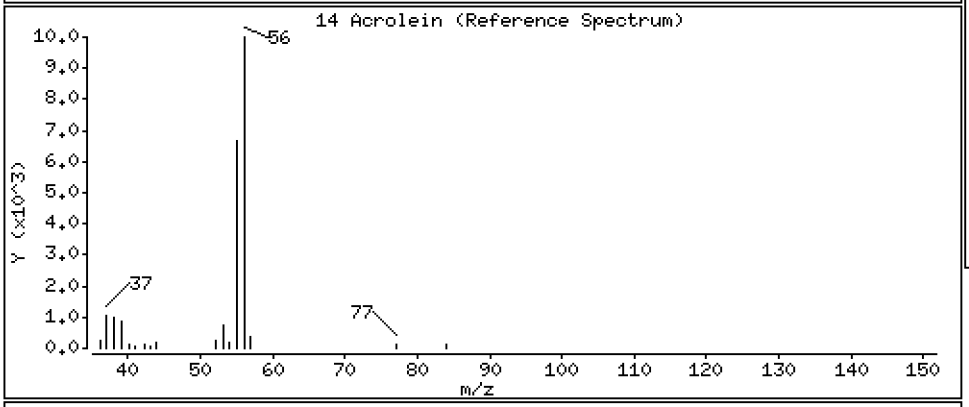
Purge Volume: 5.0 Operator: CJG

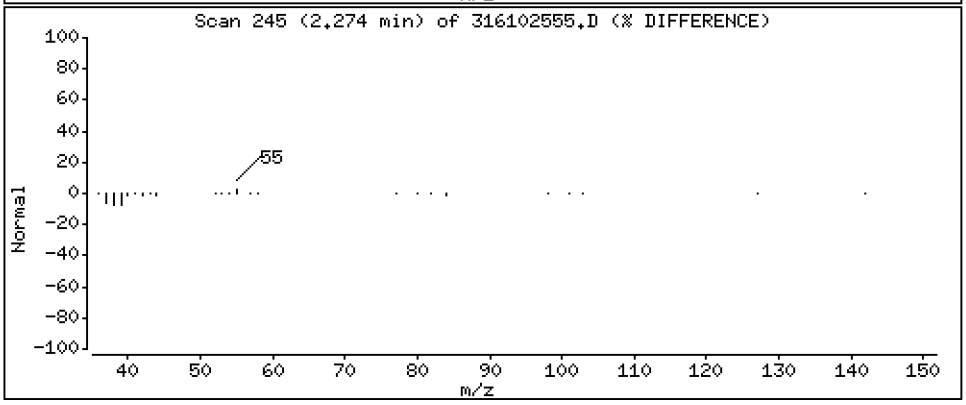
Column phase: DB-VRX Column diameter: 0.25

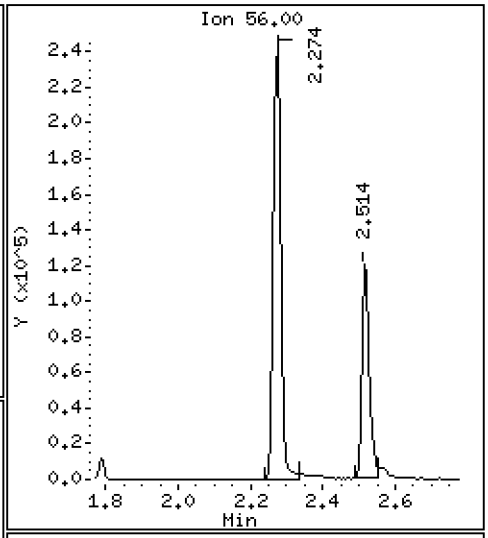
14 Acrolein Concentration: 253.638 ug/L

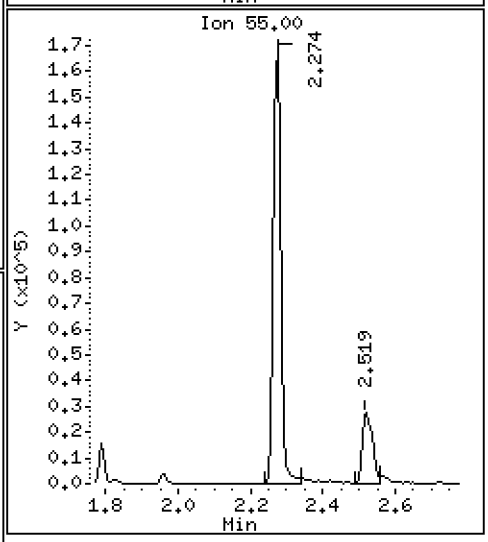












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 27

Date : 25-OCT-2016 23:28

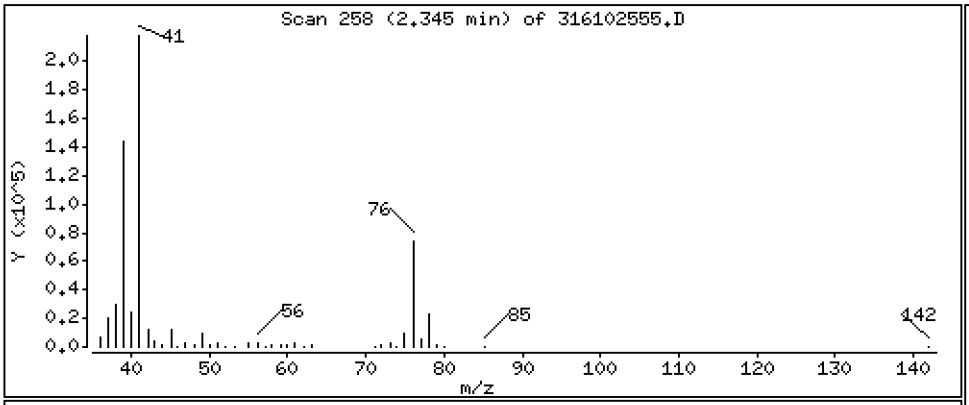
Client ID: LCS for HBN 174258 Instrument: ms03.i

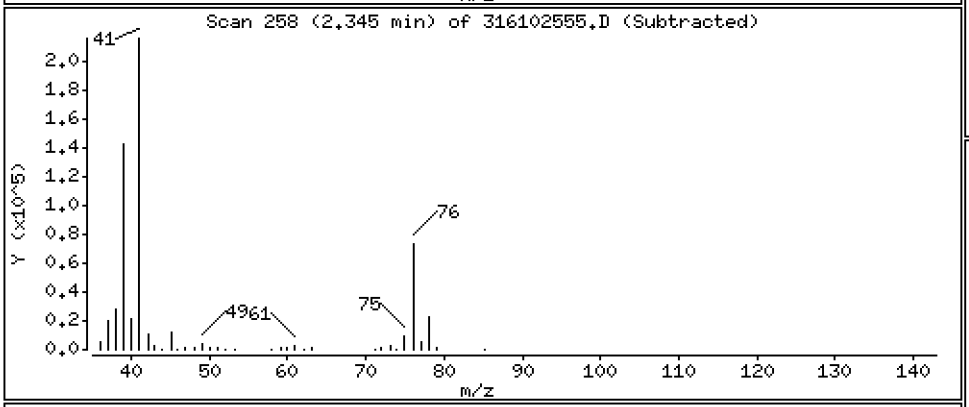
Sample Info: 2429302;;1;3;;LCS;1;

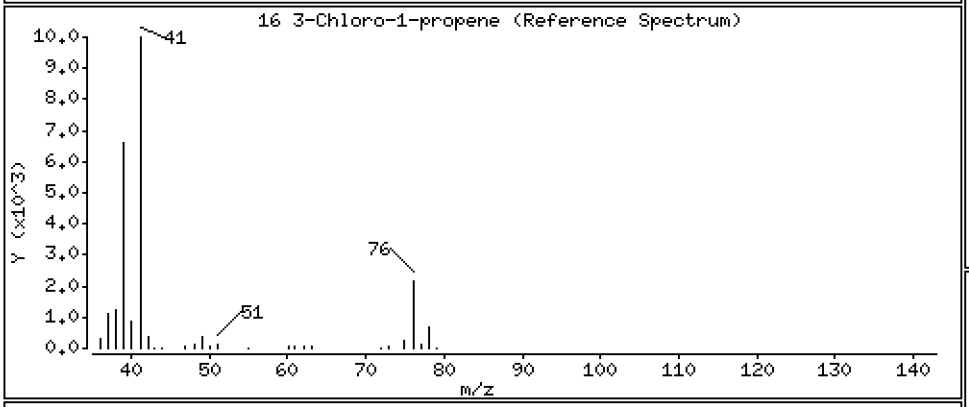
Purge Volume: 5.0 Operator: CJG

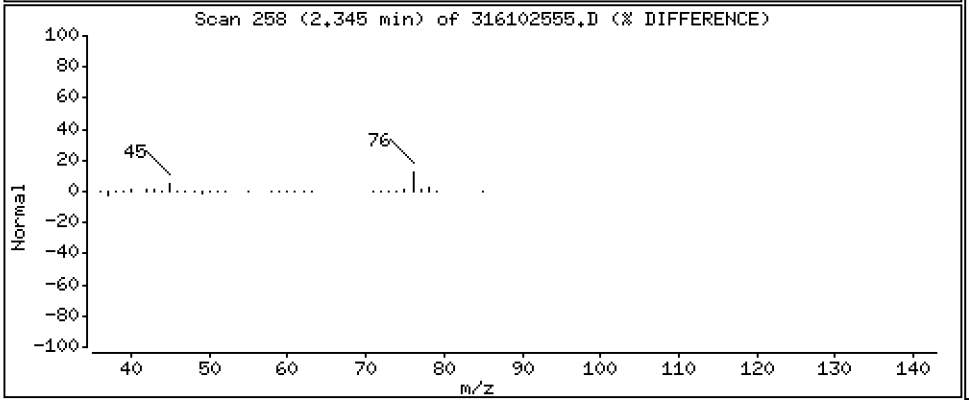
Column phase: DB-VRX Column diameter: 0.25

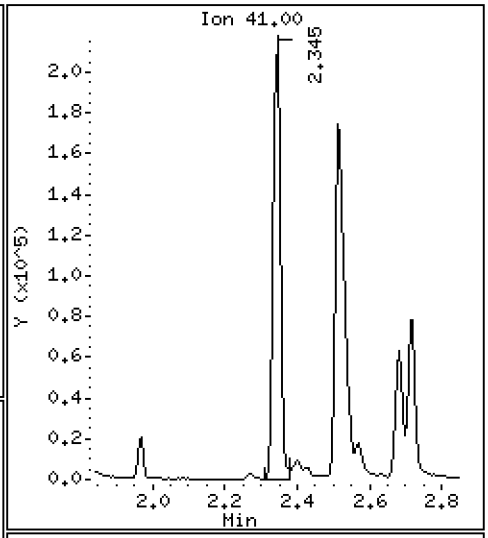
16 3-Chloro-1-propene Concentration: 23.8415 ug/L

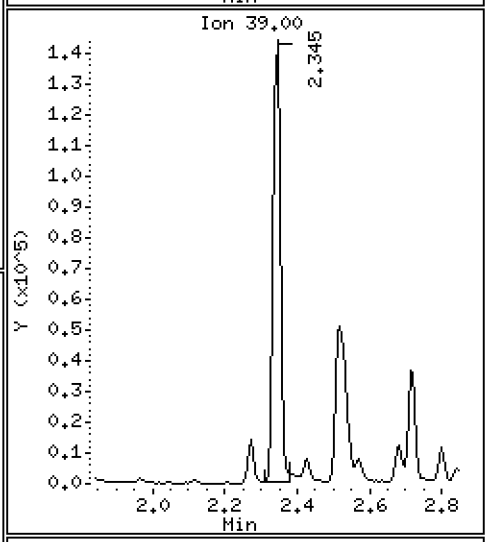


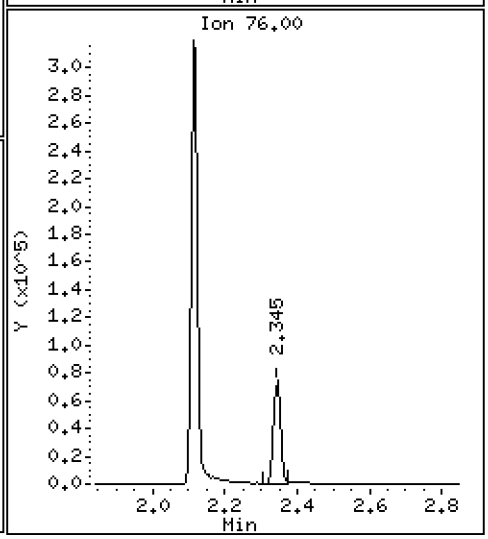












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 28

Date : 25-OCT-2016 23:28

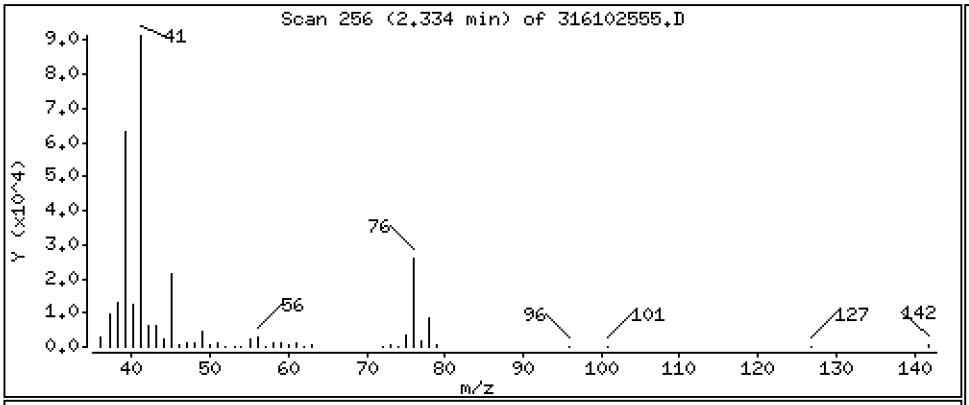
Client ID: LCS for HBN 174258 Instrument: ms03.i

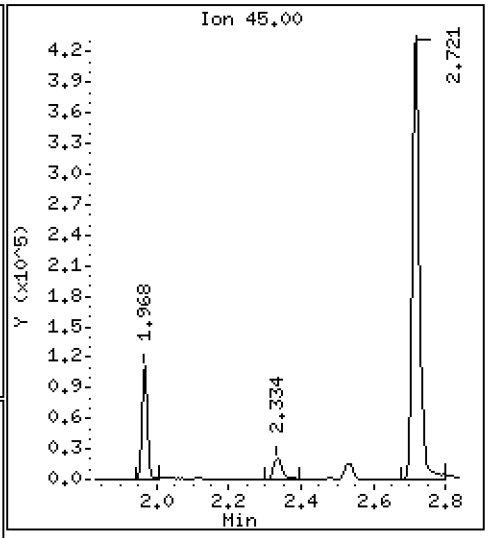
Sample Info: 2429302;;1;3;;LCS;1;

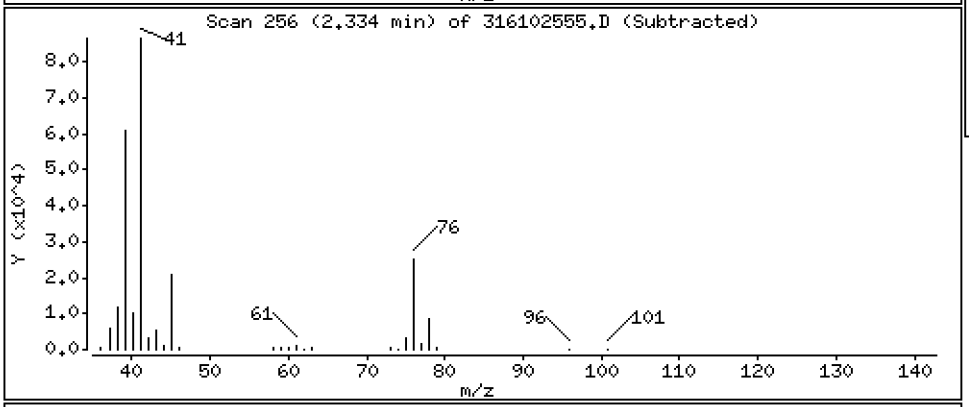
Purge Volume: 5.0 Operator: CJG

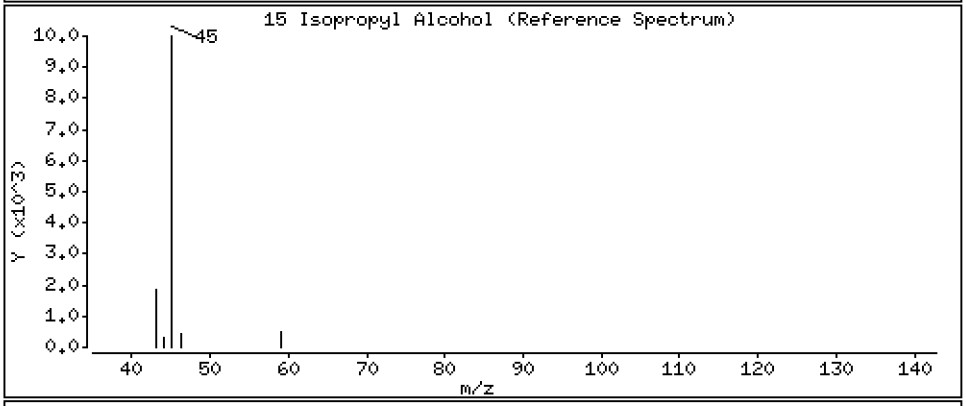
Column phase: DB-VRX Column diameter: 0.25

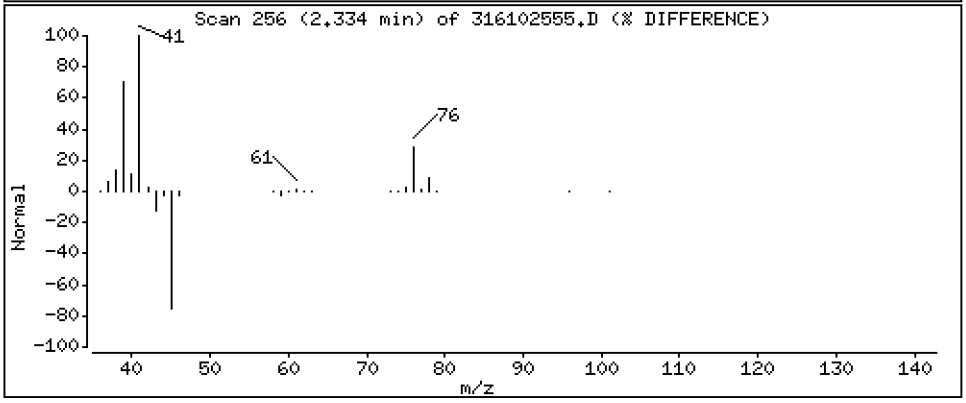
15 Isopropyl Alcohol Concentration: 123.972 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 29

Date : 25-OCT-2016 23:28

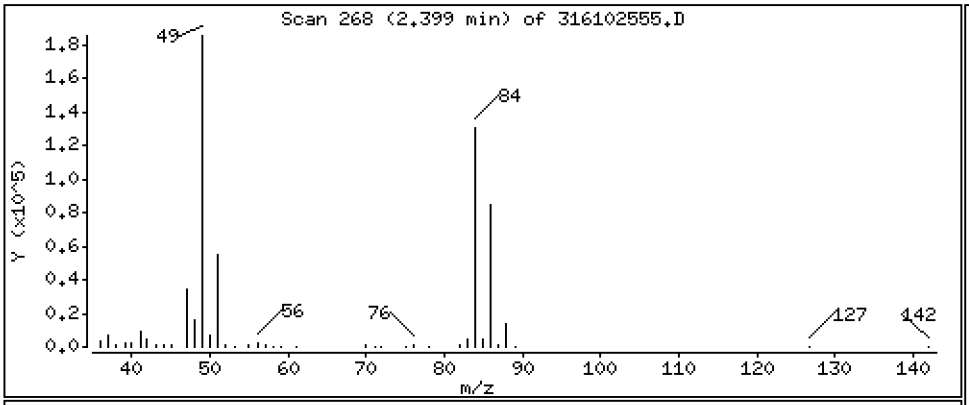
Client ID: LCS for HBN 174258 Instrument: ms03.i

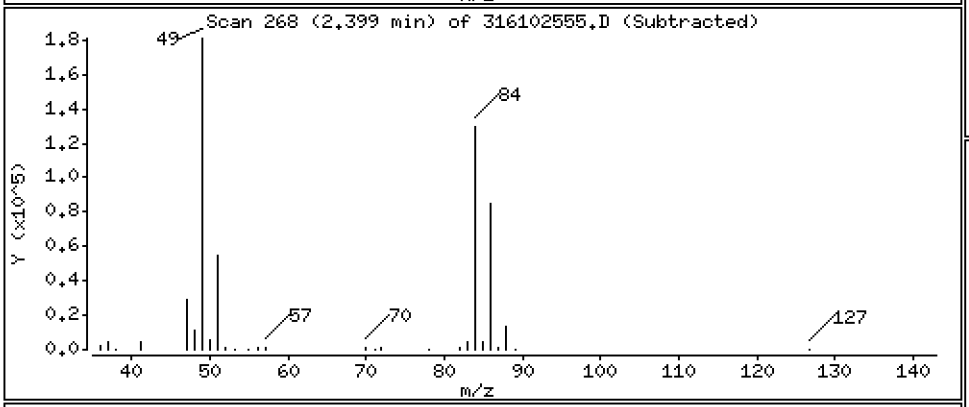
Sample Info: 2429302;;1;3;;LCS;1;

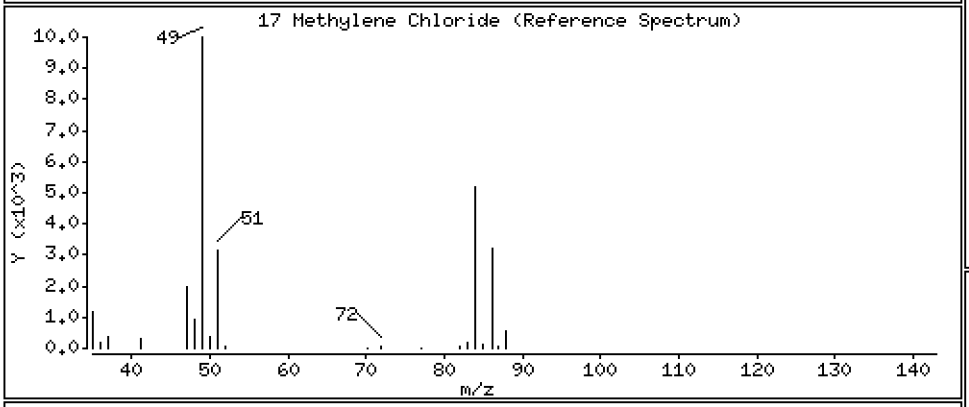
Purge Volume: 5.0 Operator: CJG

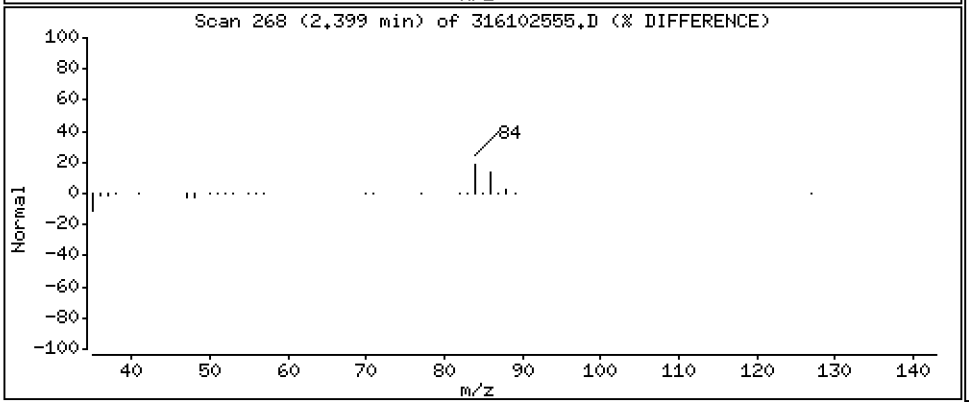
Column phase: DB-VRX Column diameter: 0.25

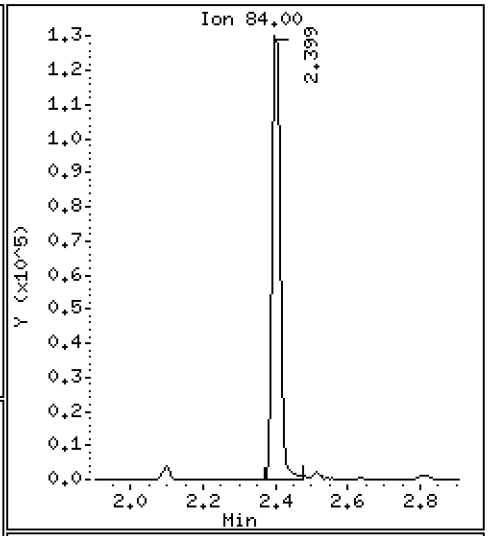
17 Methylene Chloride Concentration: 20.3245 ug/L

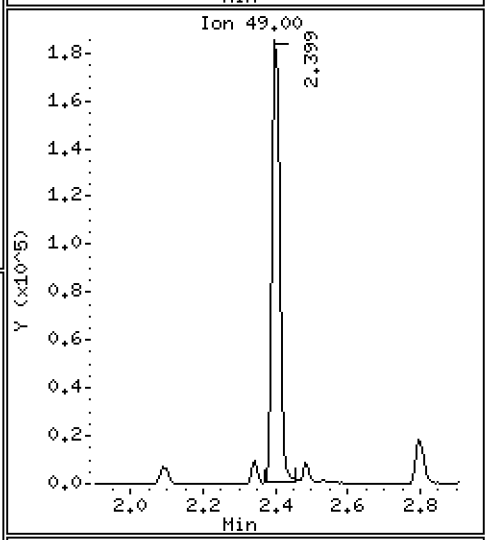


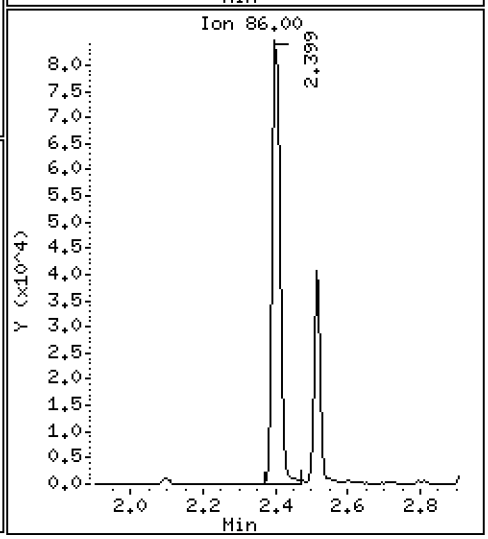












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 30

Date : 25-OCT-2016 23:28

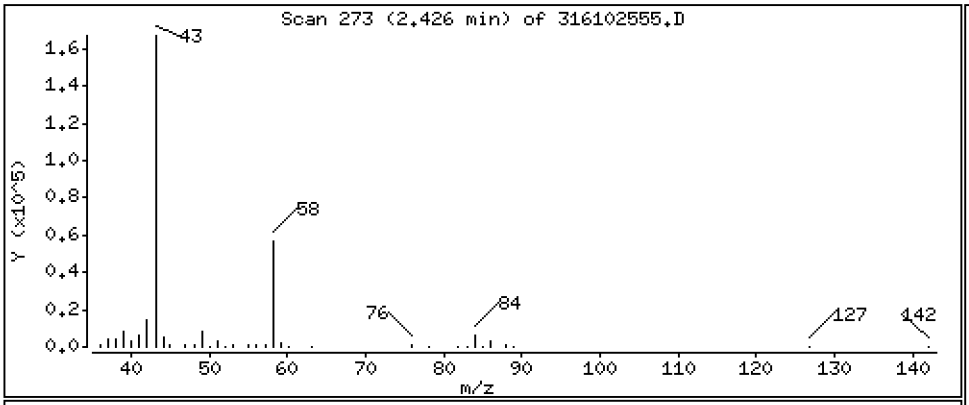
Client ID: LCS for HBN 174258 Instrument: ms03.i

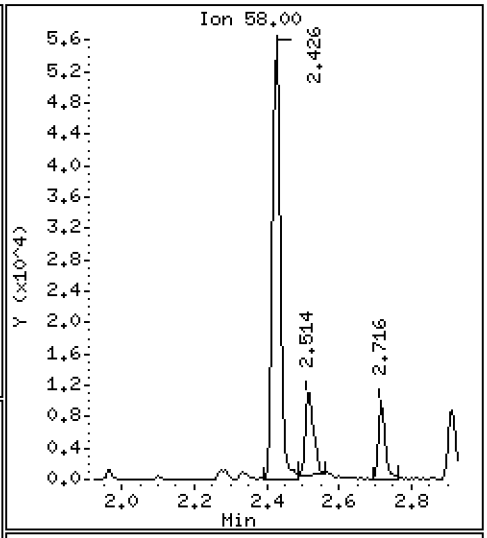
Sample Info: 2429302;;1;3;;LCS;1;

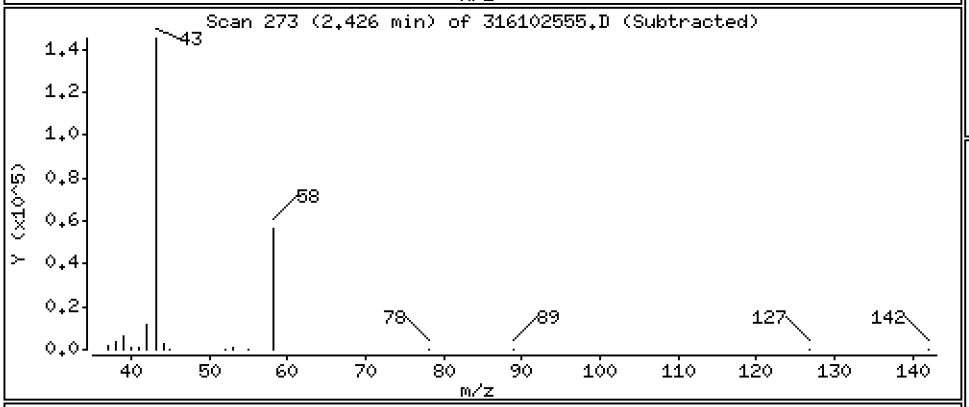
Purge Volume: 5.0 Operator: CJG

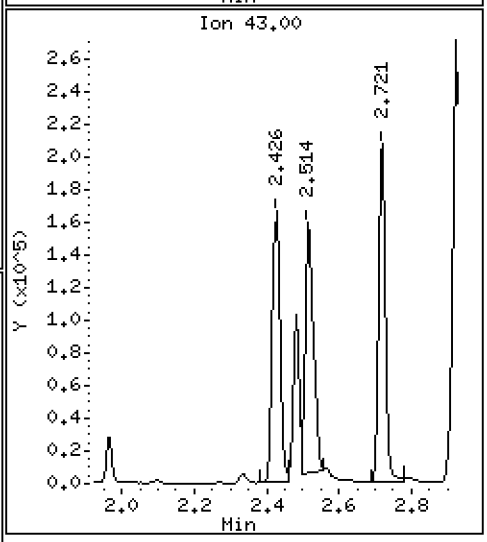
Column phase: DB-VRX Column diameter: 0.25

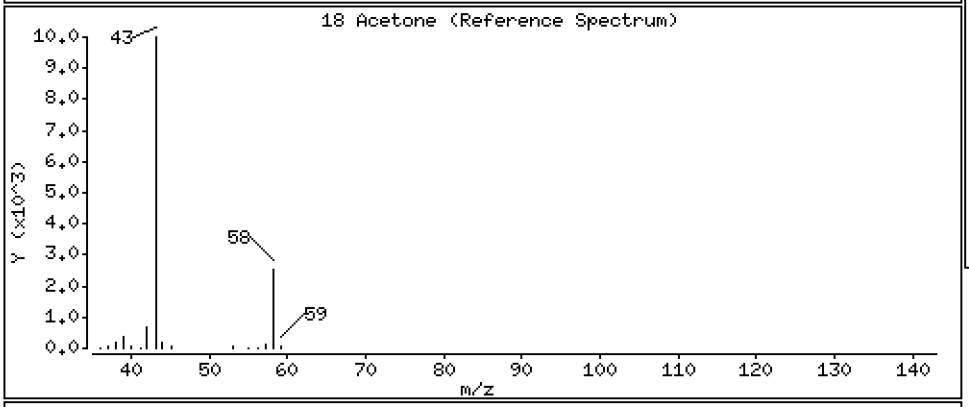
18 Acetone Concentration: 111.886 ug/L

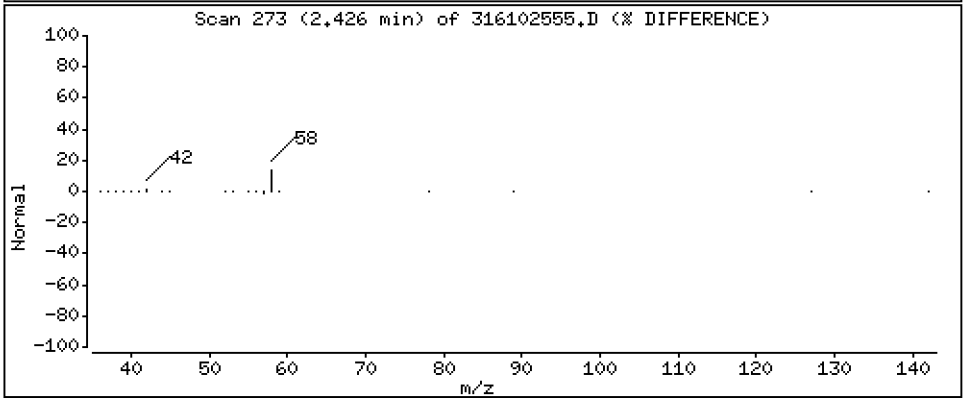












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 31

Date : 25-OCT-2016 23:28

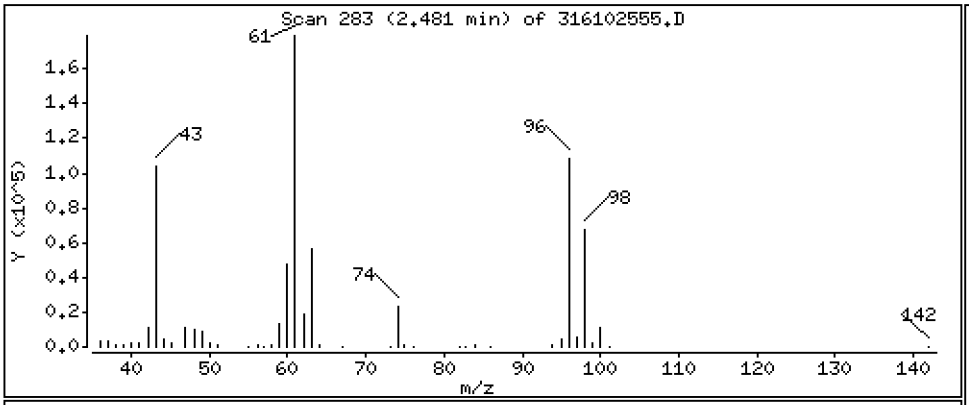
Client ID: LCS for HBN 174258 Instrument: ms03.i

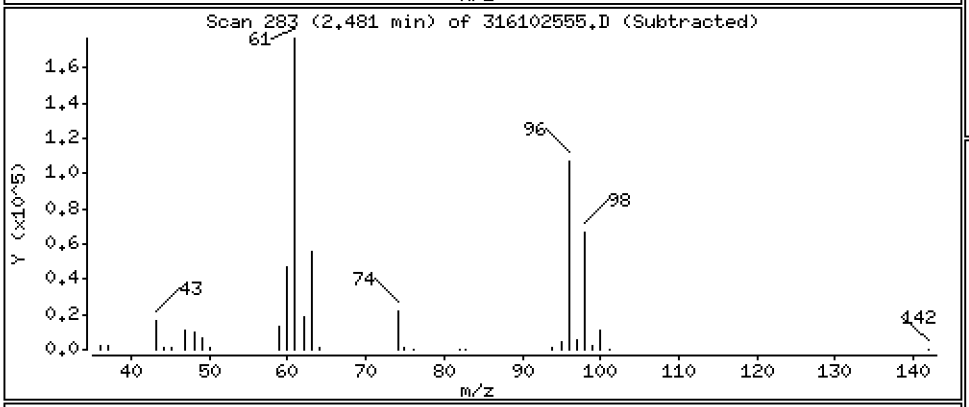
Sample Info: 2429302;;1;3;;LCS;1;

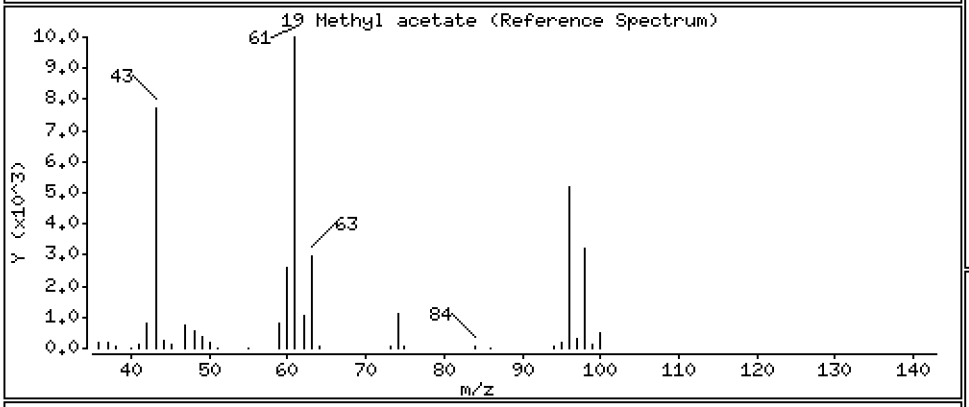
Purge Volume: 5.0 Operator: CJG

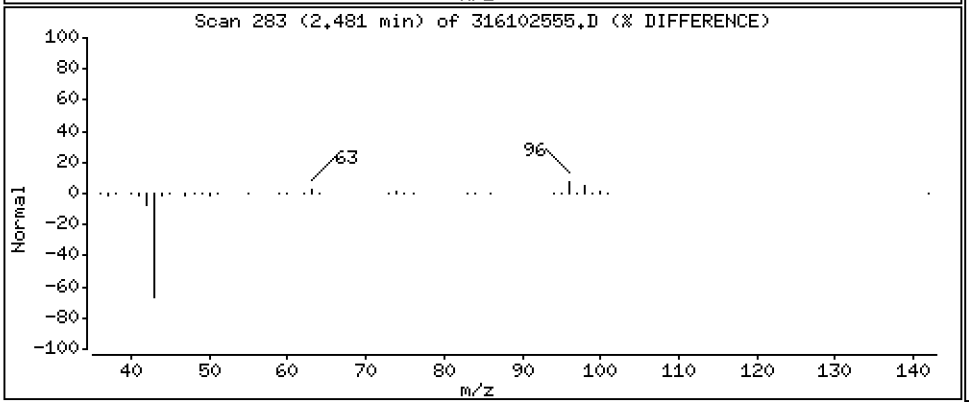
Column phase: DB-VRX Column diameter: 0.25

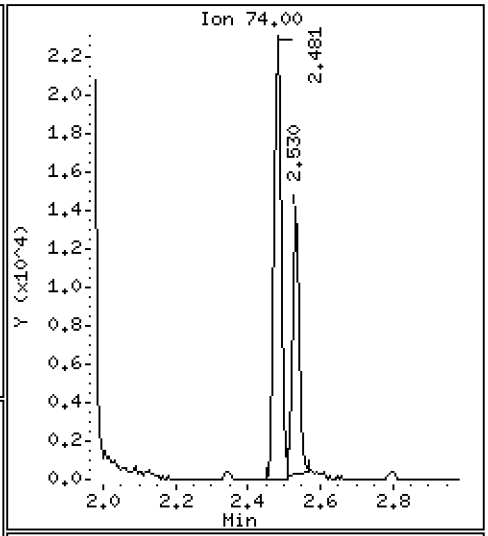
19 Methyl acetate Concentration: 20.6752 ug/L

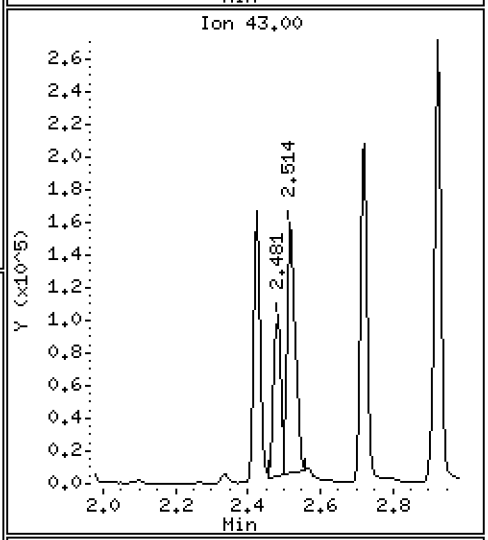


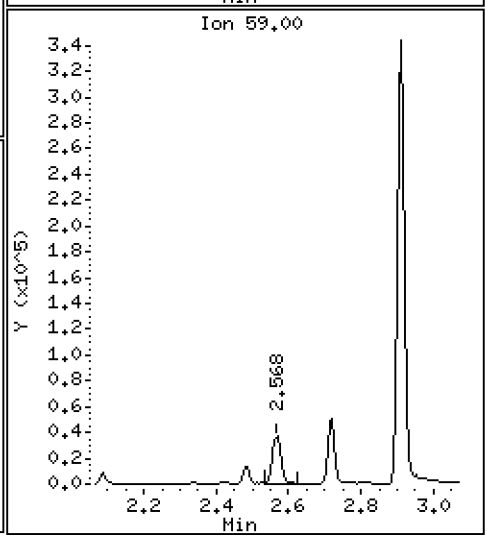












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 32

Date : 25-OCT-2016 23:28

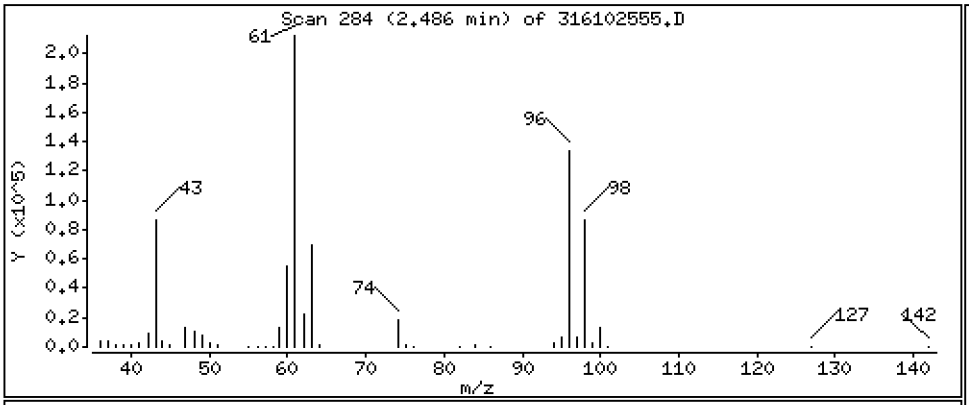
Client ID: LCS for HBN 174258 Instrument: ms03.i

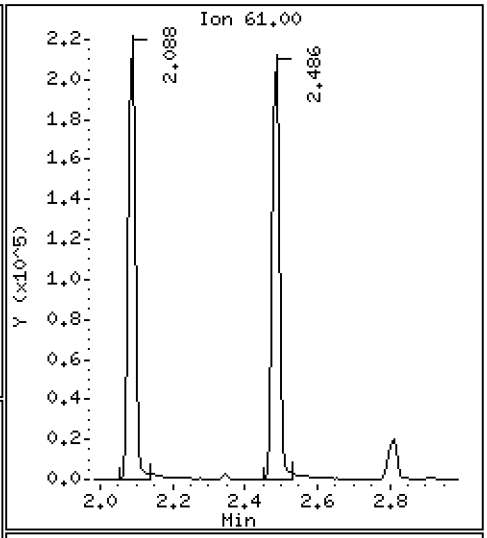
Sample Info: 2429302;;1;3;;LCS;1;

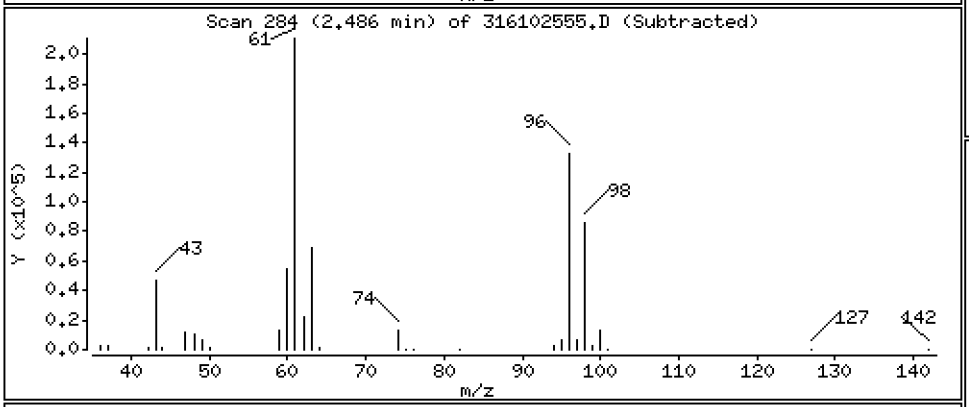
Purge Volume: 5.0 Operator: CJG

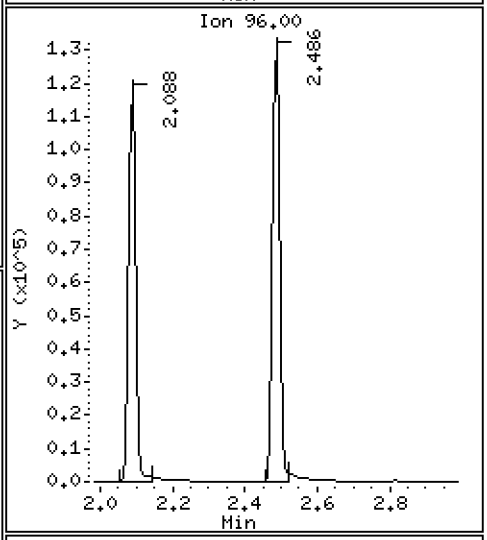
Column phase: DB-VRX Column diameter: 0.25

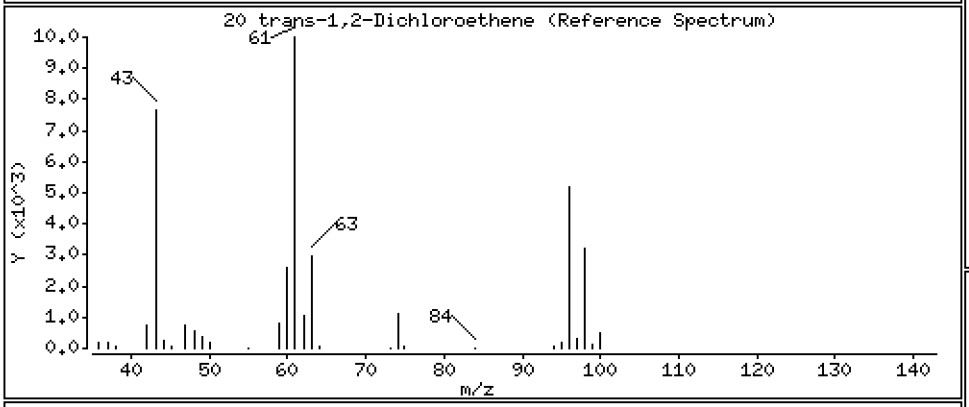
20 trans-1,2-Dichloroethene Concentration: 20.2435 ug/L

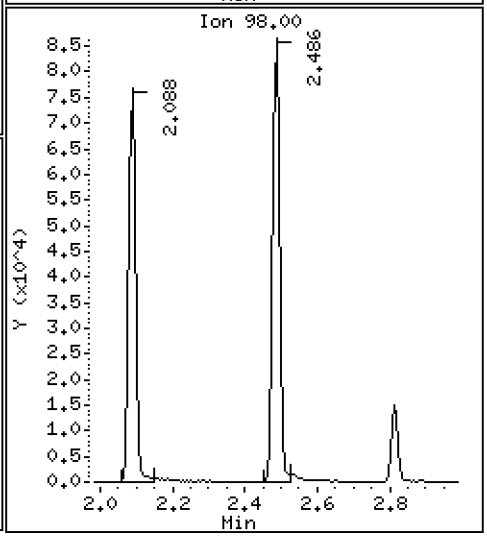


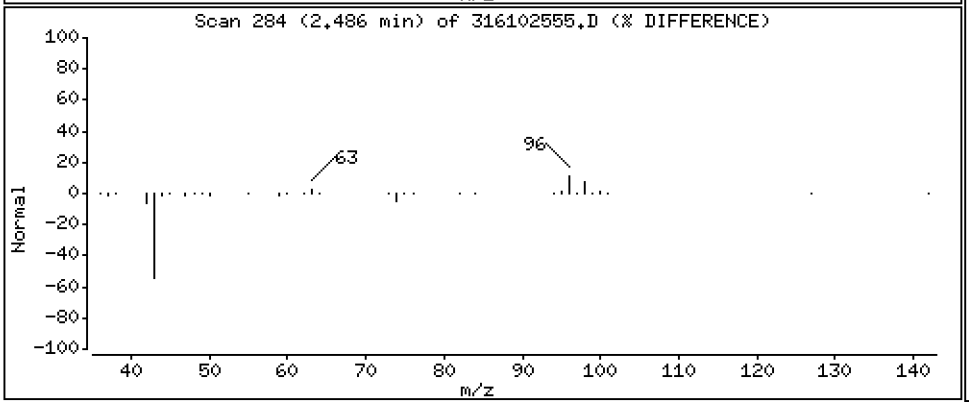












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 33

Date : 25-OCT-2016 23:28

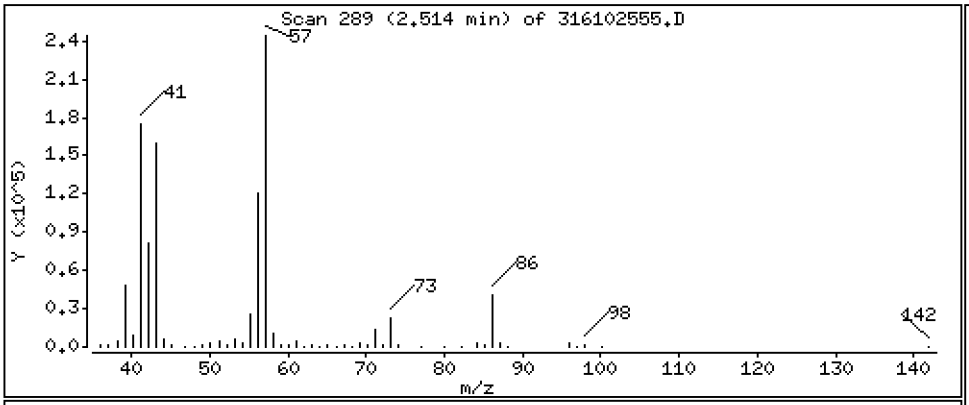
Client ID: LCS for HBN 174258 Instrument: ms03.i

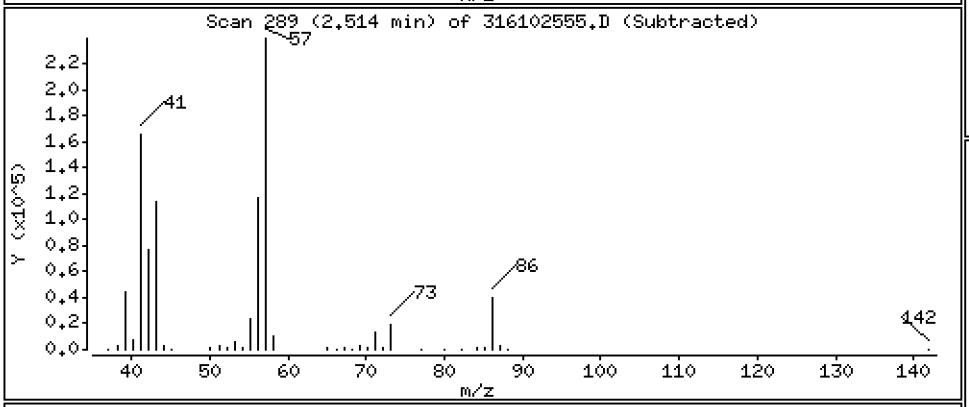
Sample Info: 2429302;;1;3;;LCS;1;

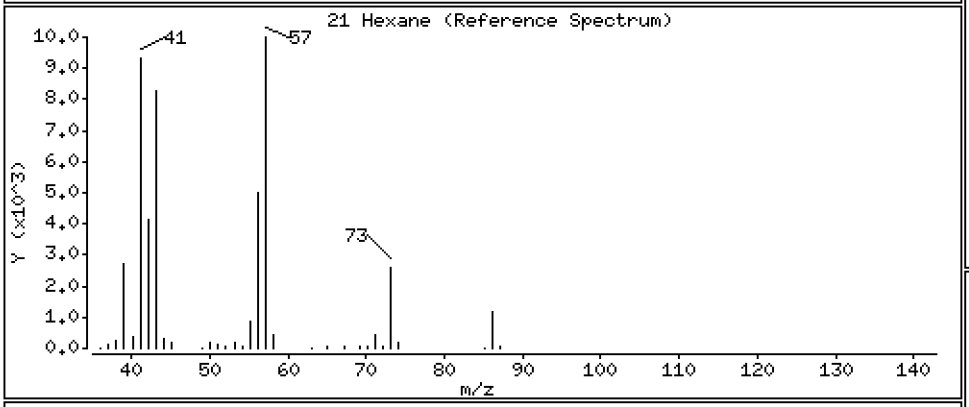
Purge Volume: 5.0 Operator: CJG

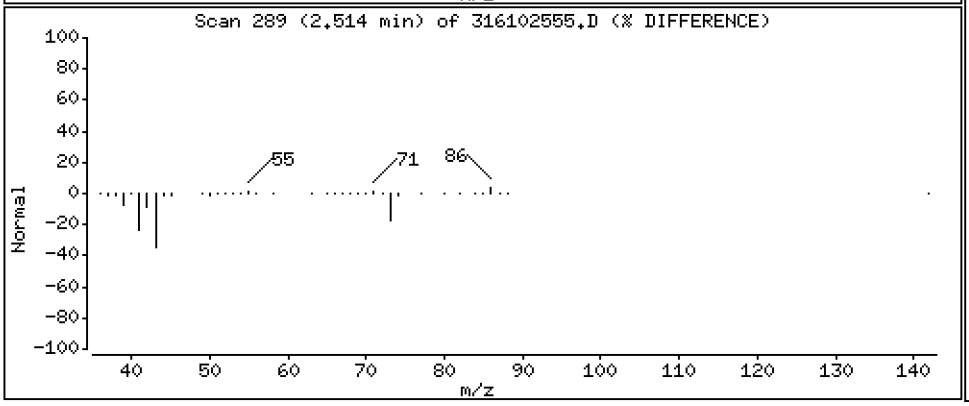
Column phase: DB-VRX Column diameter: 0.25

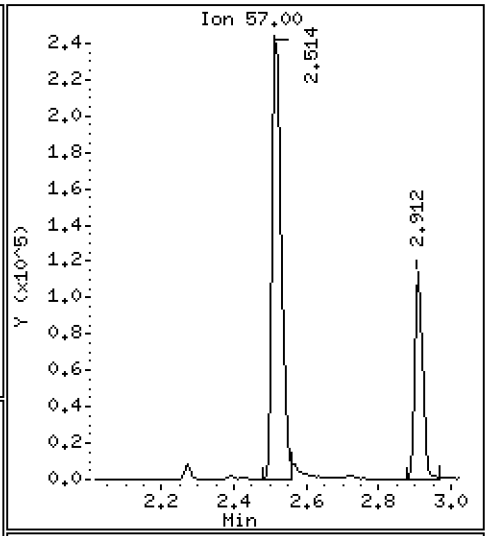
21 Hexane Concentration: 21.6996 ug/L

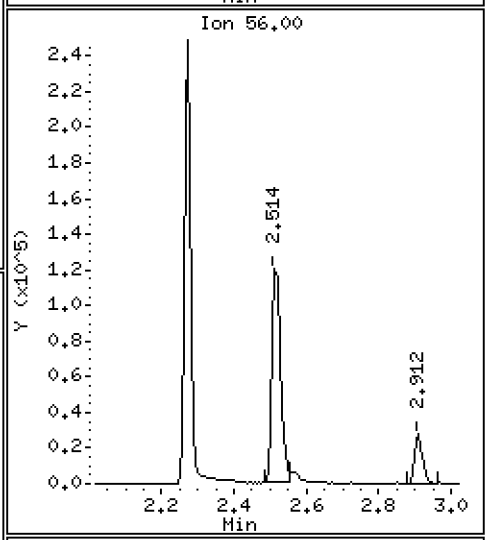


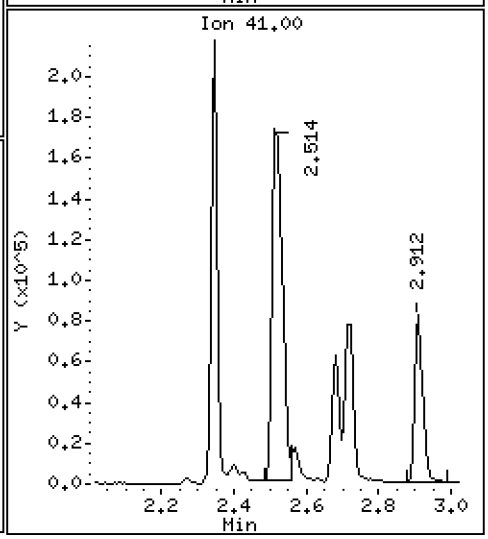












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 34

Date : 25-OCT-2016 23:28

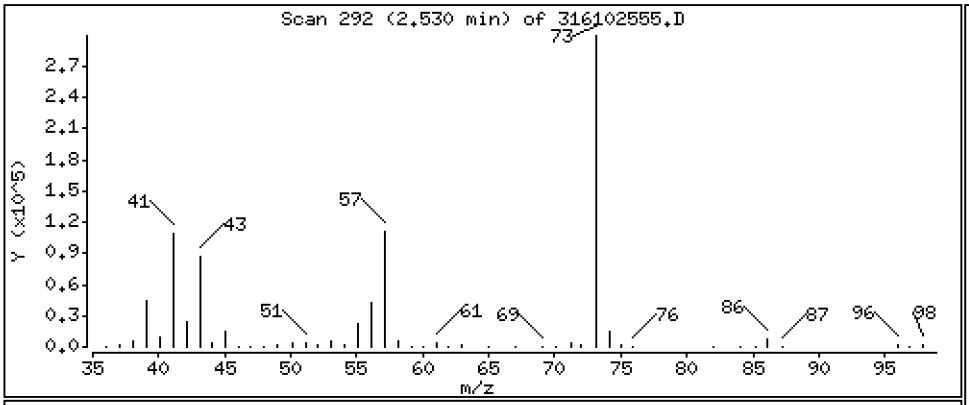
Client ID: LCS for HBN 174258 Instrument: ms03.i

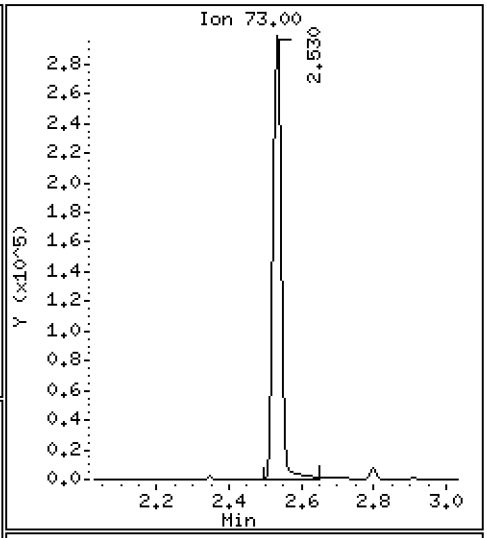
Sample Info: 2429302;;1;3;;LCS;1;

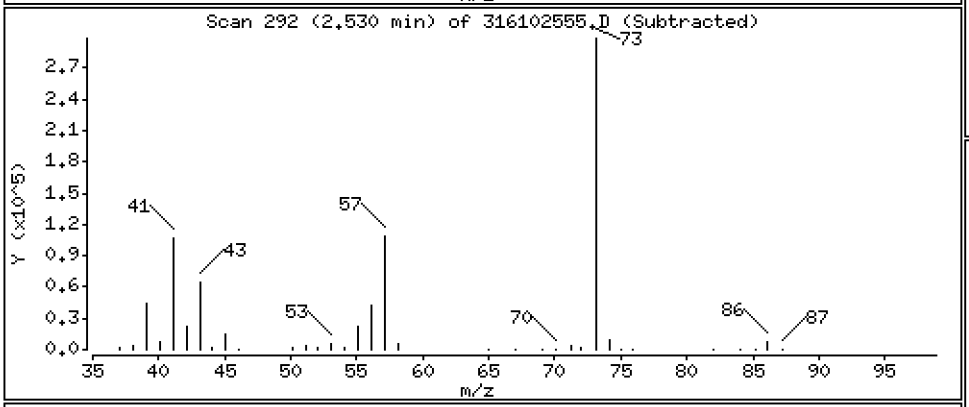
Purge Volume: 5.0 Operator: CJG

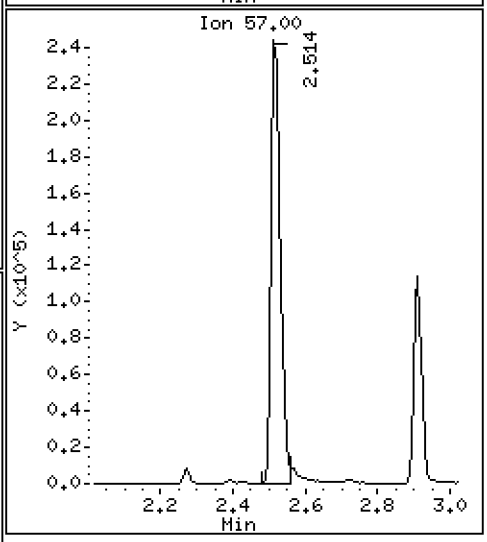
Column phase: DB-VRX Column diameter: 0.25

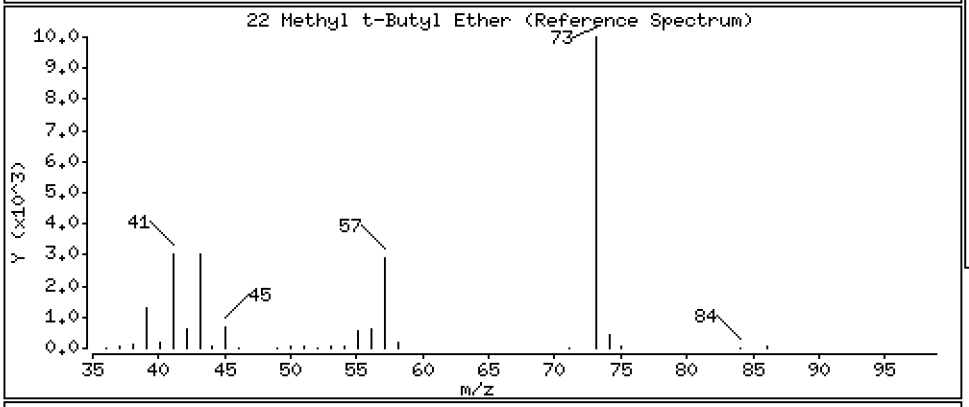
22 Methyl t-Butyl Ether Concentration: 19.6690 ug/L

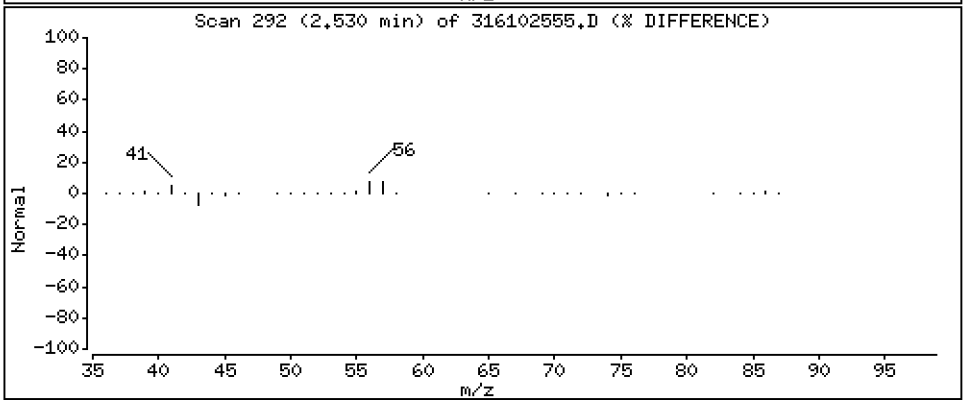












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 35

Date : 25-OCT-2016 23:28

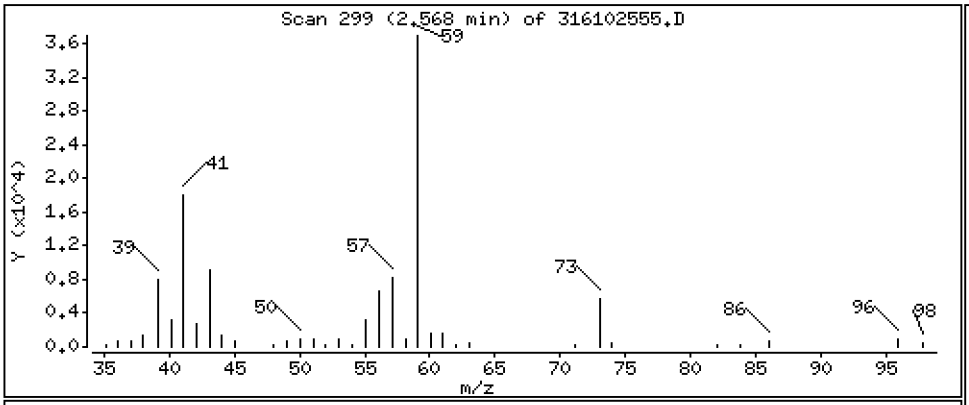
Client ID: LCS for HBN 174258 Instrument: ms03.i

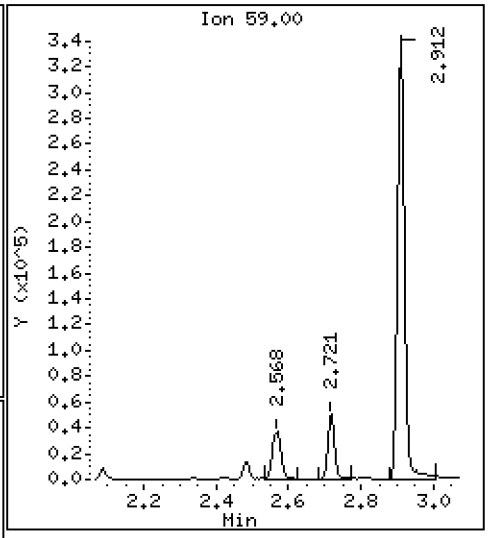
Sample Info: 2429302;;1;3;;LCS;1;

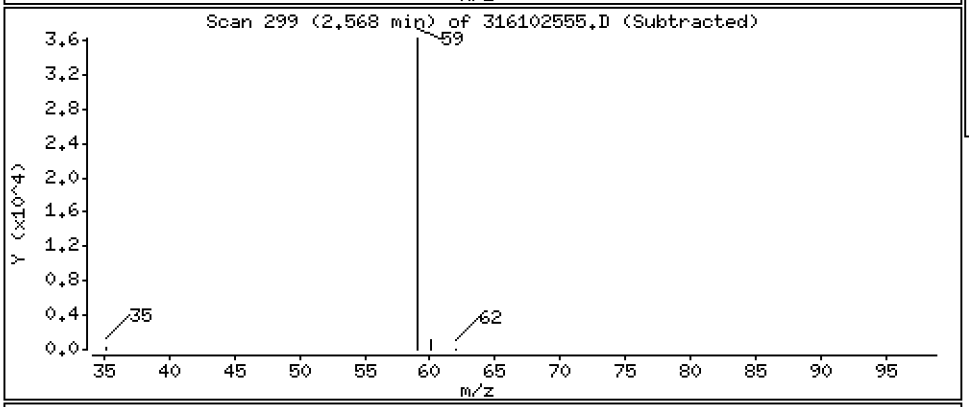
Purge Volume: 5.0 Operator: CJG

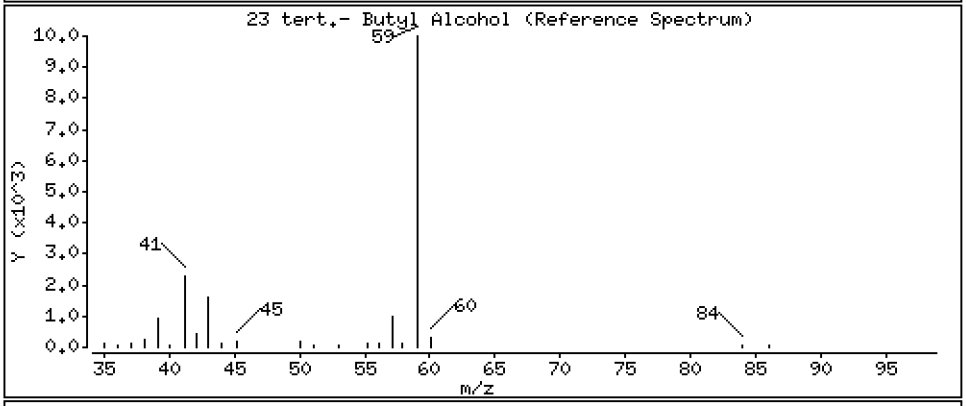
Column phase: DB-VRX Column diameter: 0.25

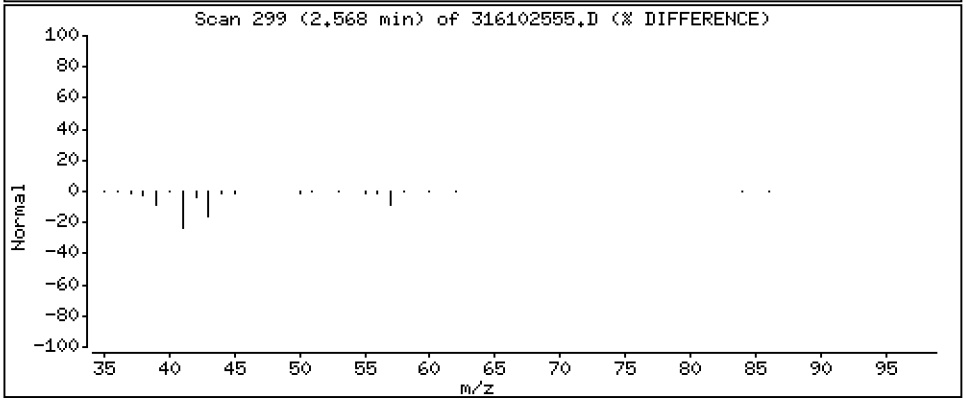
23 tert.- Butyl Alcohol Concentration: 113.880 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 36

Date : 25-OCT-2016 23:28

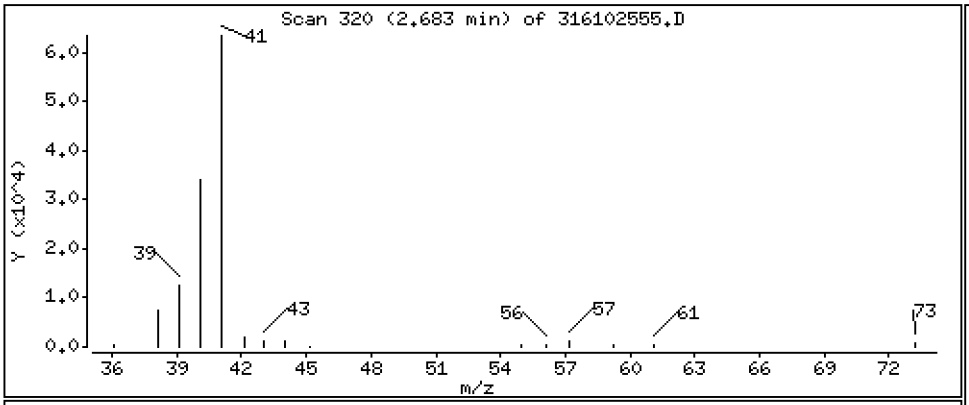
Client ID: LCS for HBN 174258 Instrument: ms03.i

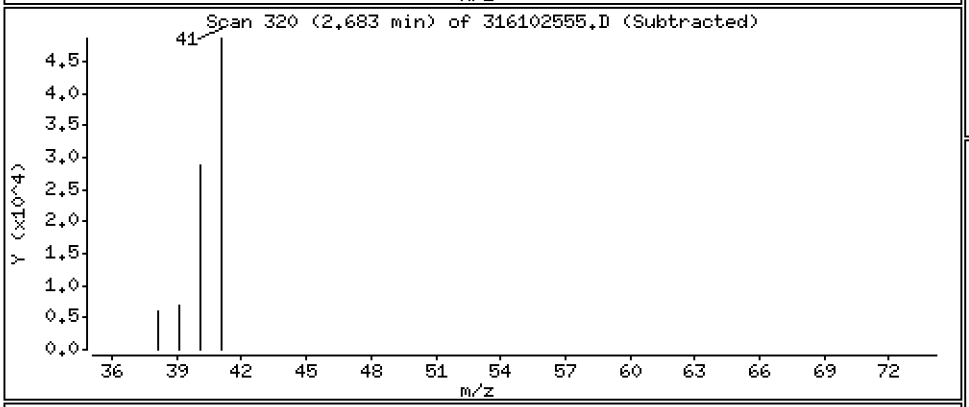
Sample Info: 2429302;;1;3;;LCS;1;

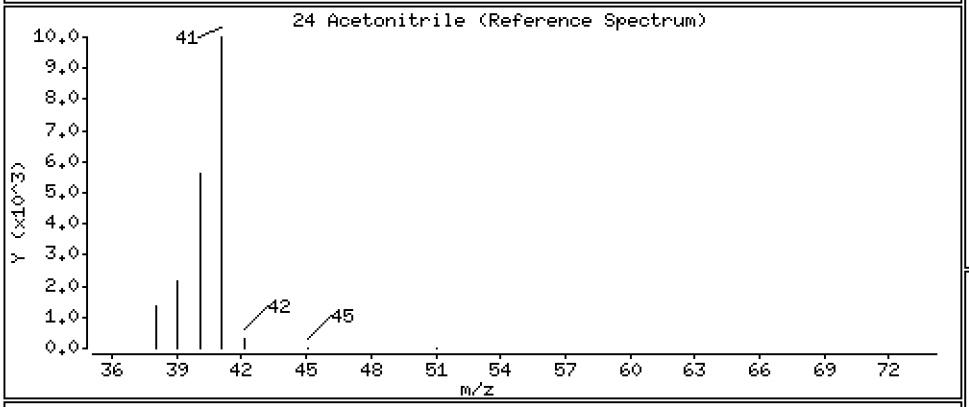
Purge Volume: 5.0 Operator: CJG

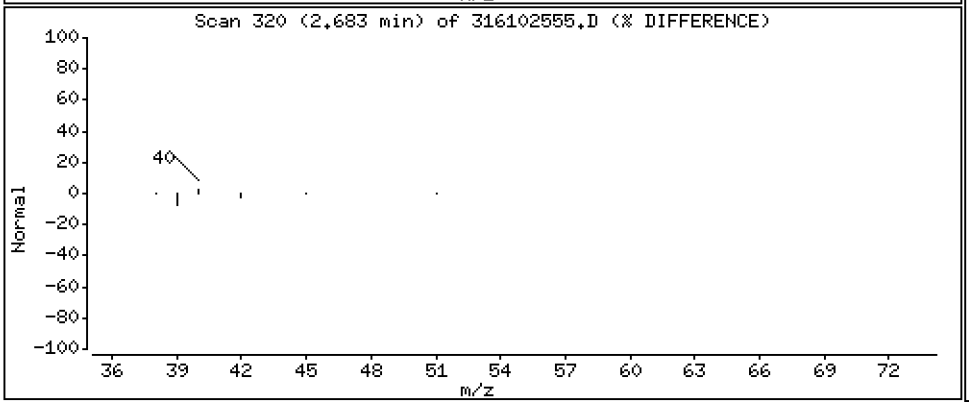
Column phase: DB-VRX Column diameter: 0.25

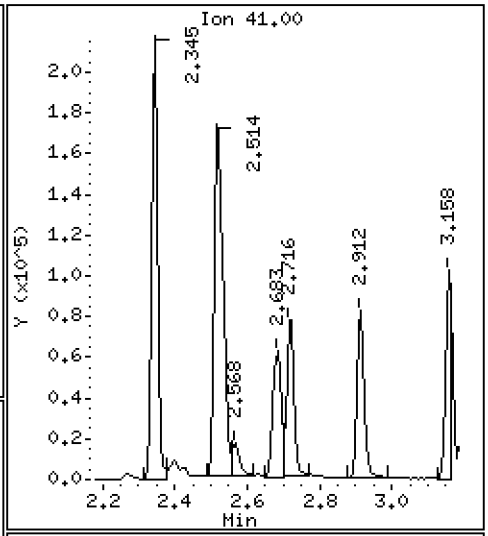
24 Acetonitrile Concentration: 128.819 ug/L

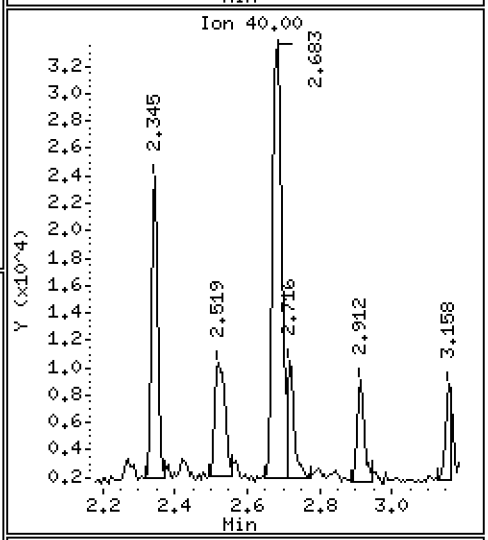


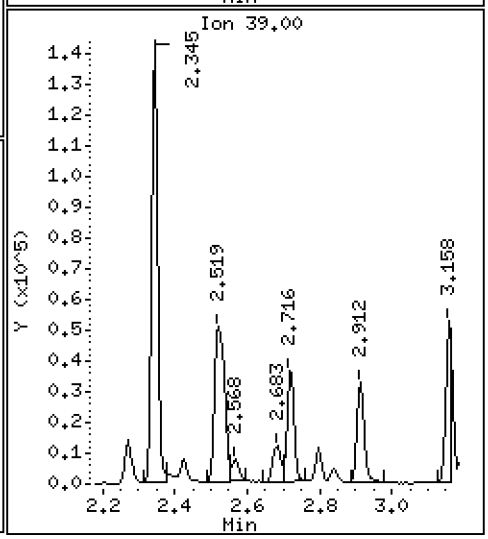












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 37

Date : 25-OCT-2016 23:28

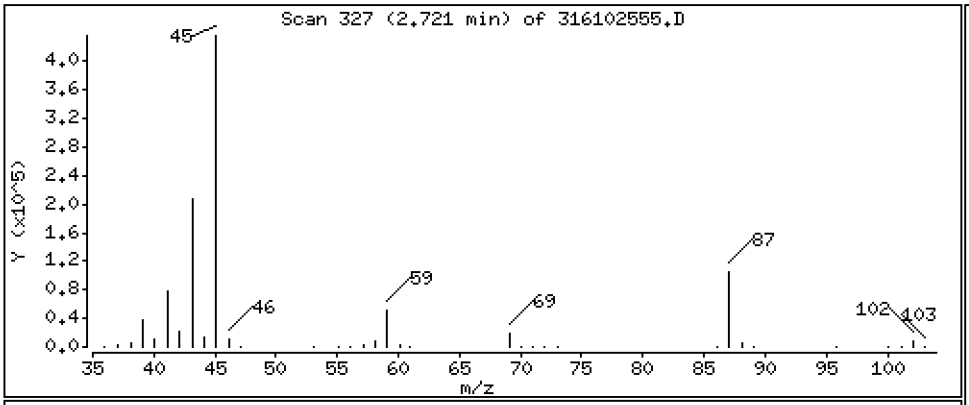
Client ID: LCS for HBN 174258 Instrument: ms03.i

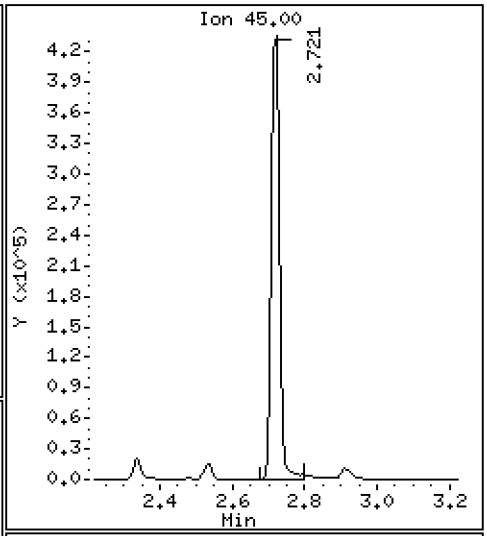
Sample Info: 2429302;;1;3;;LCS;1;

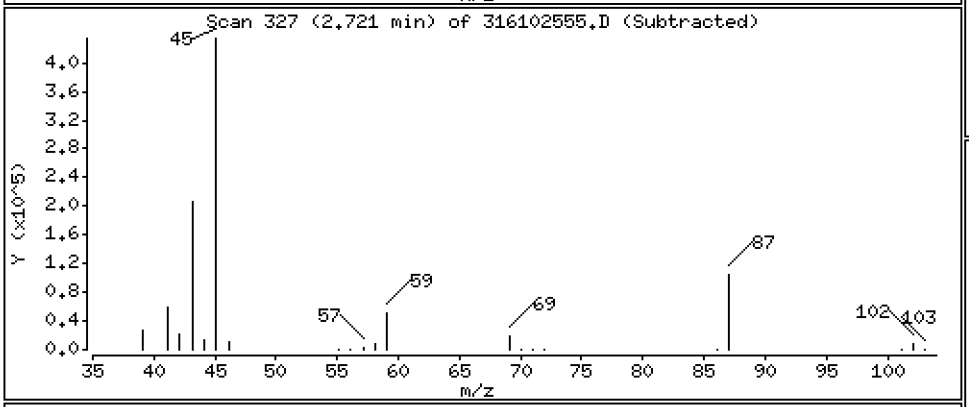
Purge Volume: 5.0 Operator: CJG

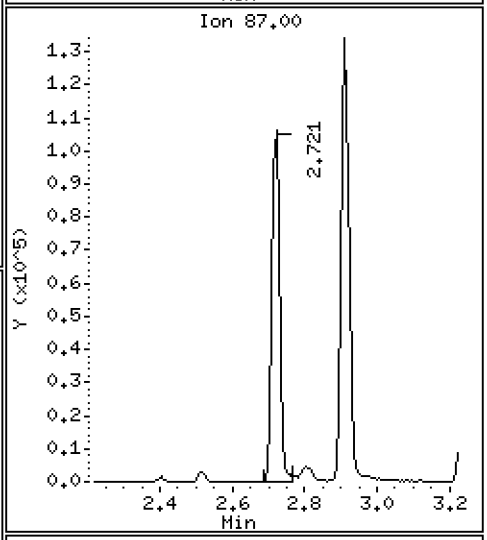
Column phase: DB-VRX Column diameter: 0.25

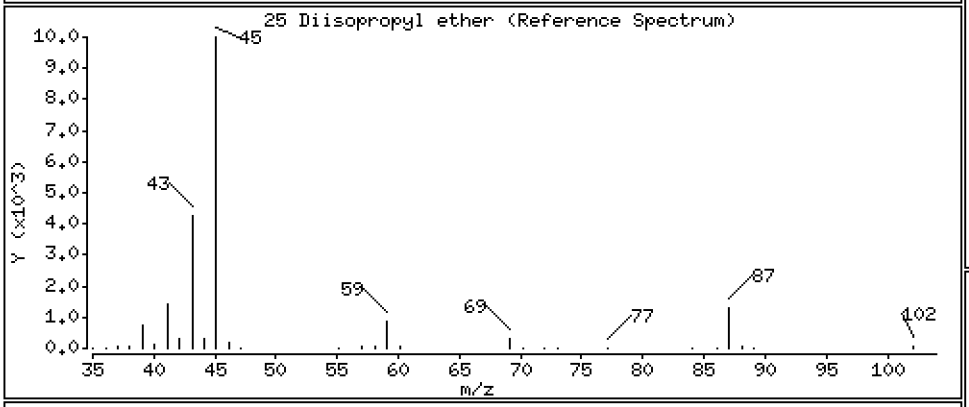
25 Diisopropyl ether Concentration: 21.3128 ug/L

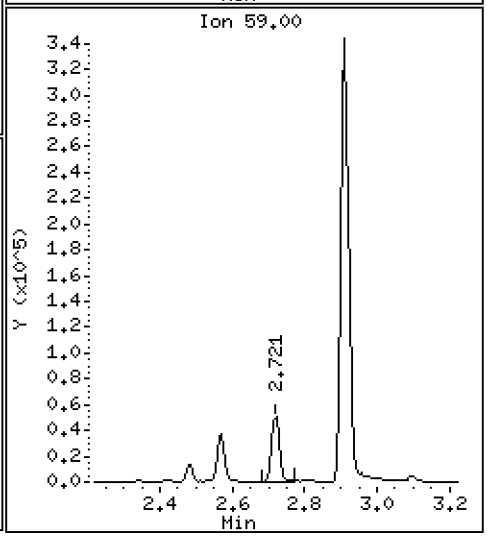


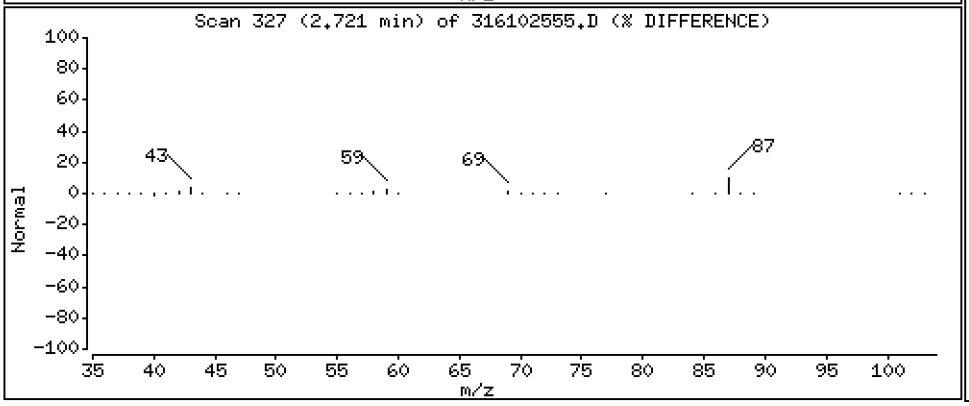












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 38

Date : 25-OCT-2016 23:28

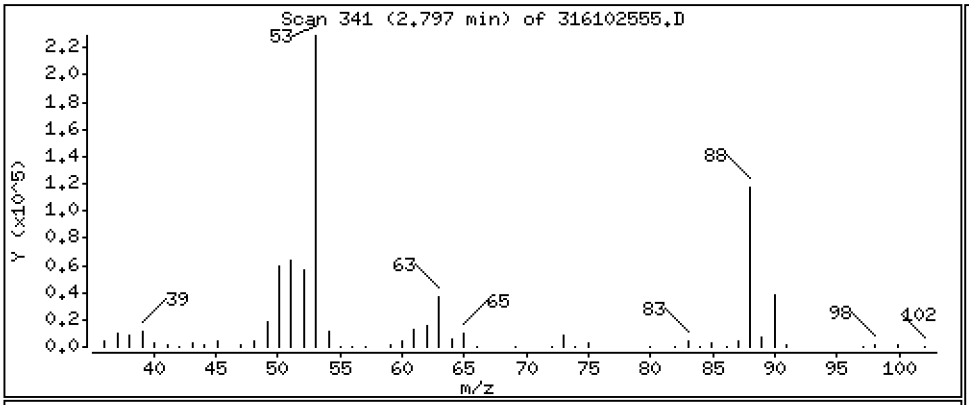
Client ID: LCS for HBN 174258 Instrument: ms03.i

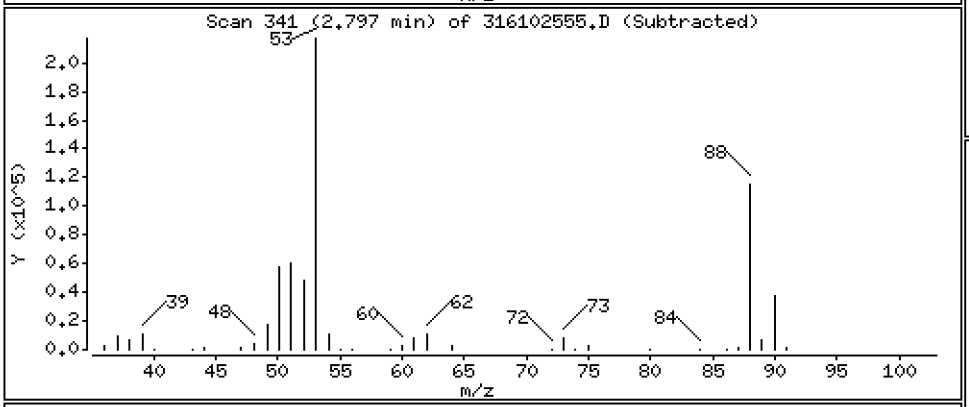
Sample Info: 2429302;;1;3;;LCS;1;

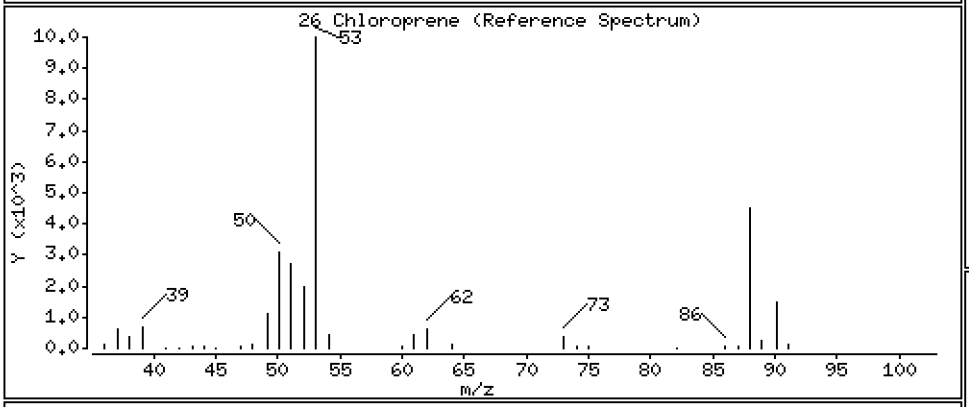
Purge Volume: 5.0 Operator: CJG

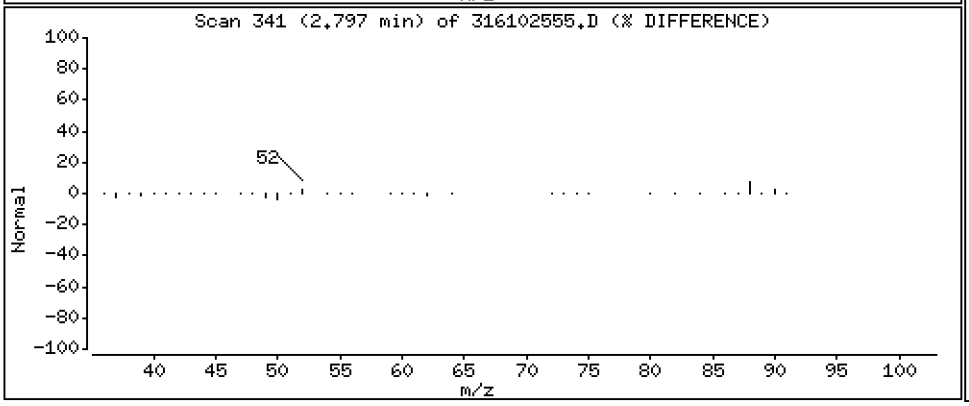
Column phase: DB-VRX Column diameter: 0.25

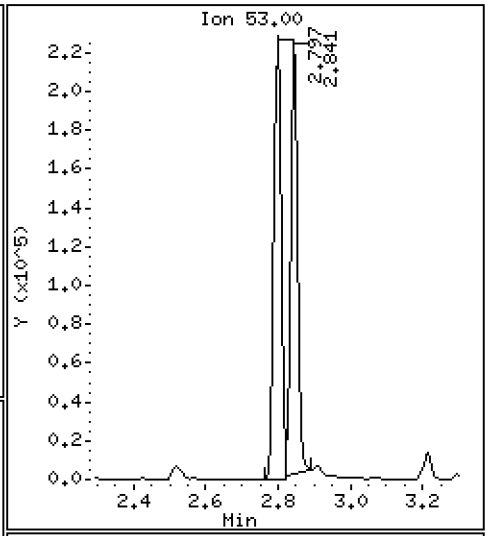
26 Chloroprene Concentration: 22.9335 ug/L

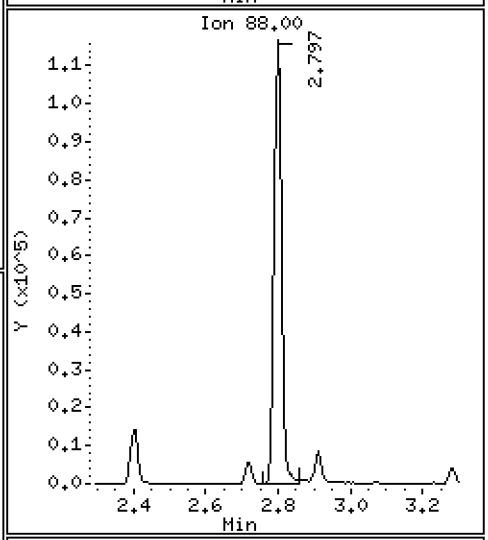


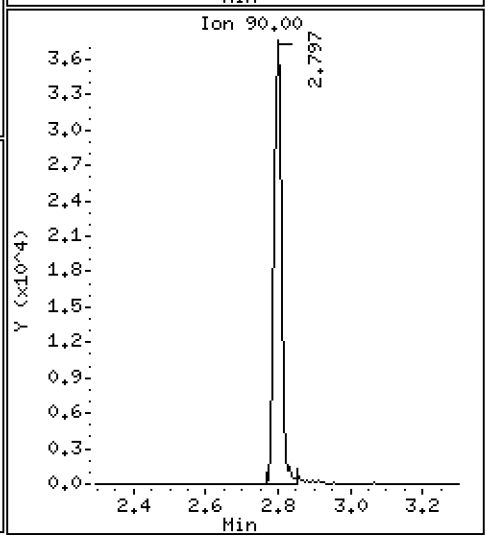












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 39

Date : 25-OCT-2016 23:28

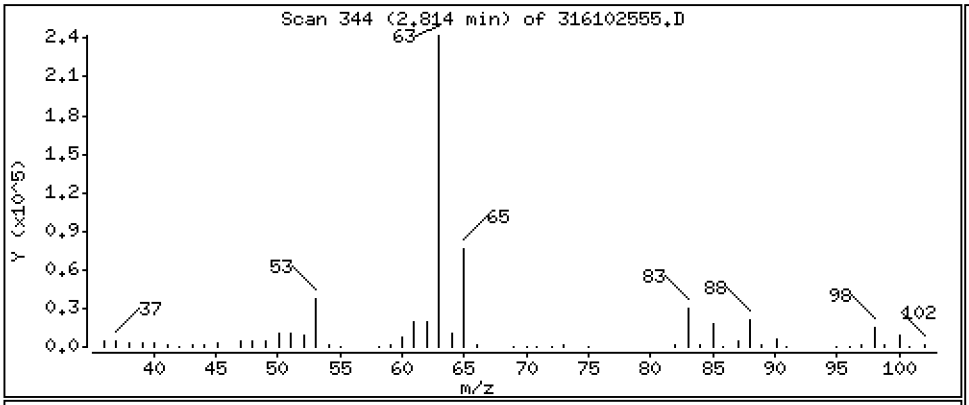
Client ID: LCS for HBN 174258 Instrument: ms03.i

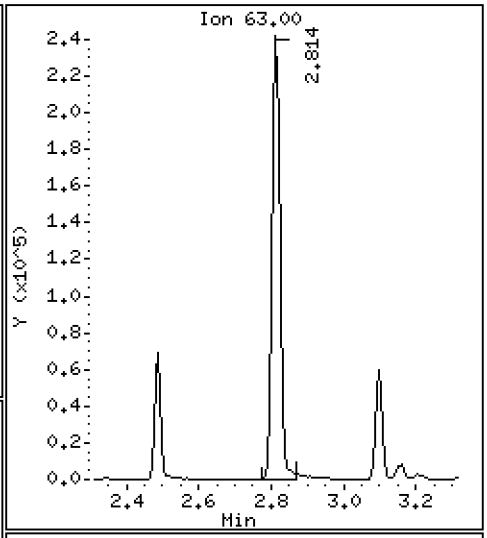
Sample Info: 2429302;;1;3;;LCS;1;

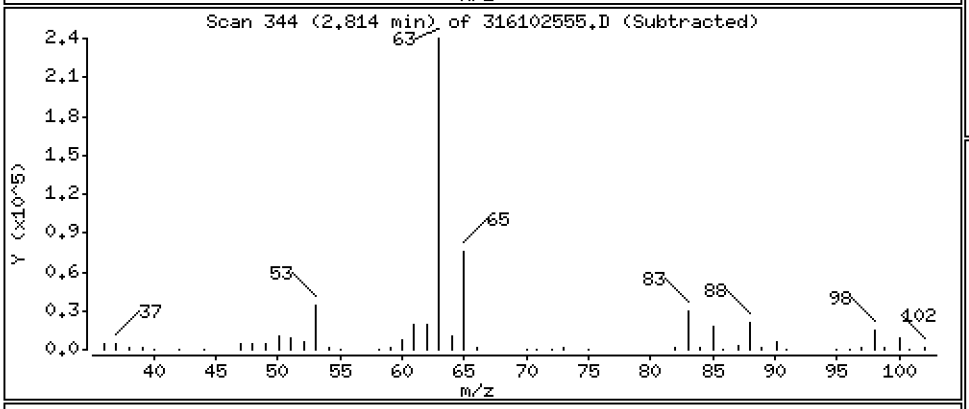
Purge Volume: 5.0 Operator: CJG

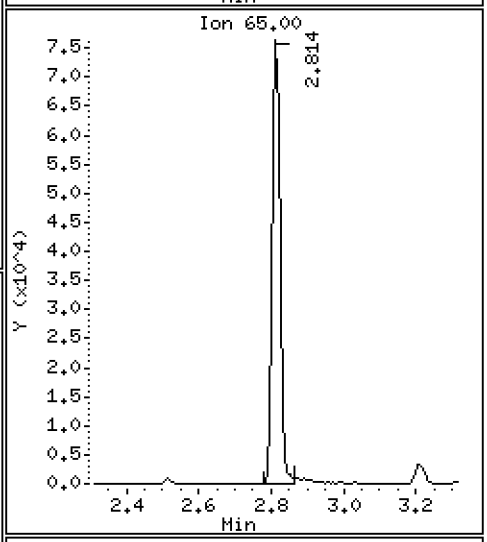
Column phase: DB-VRX Column diameter: 0.25

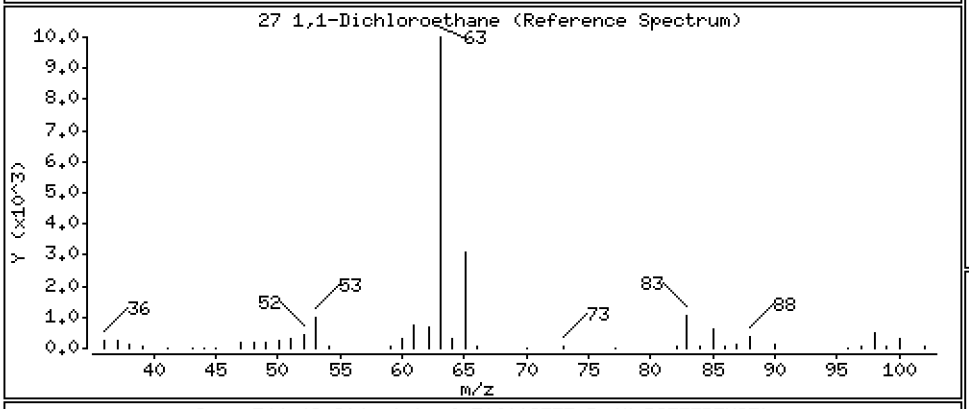
27 1,1-Dichloroethane Concentration: 19.8117 ug/L

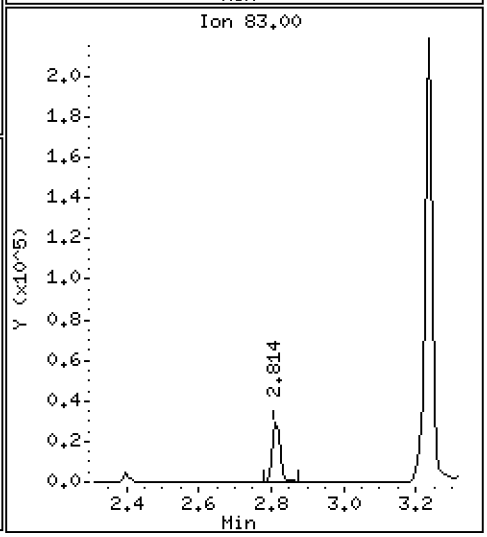


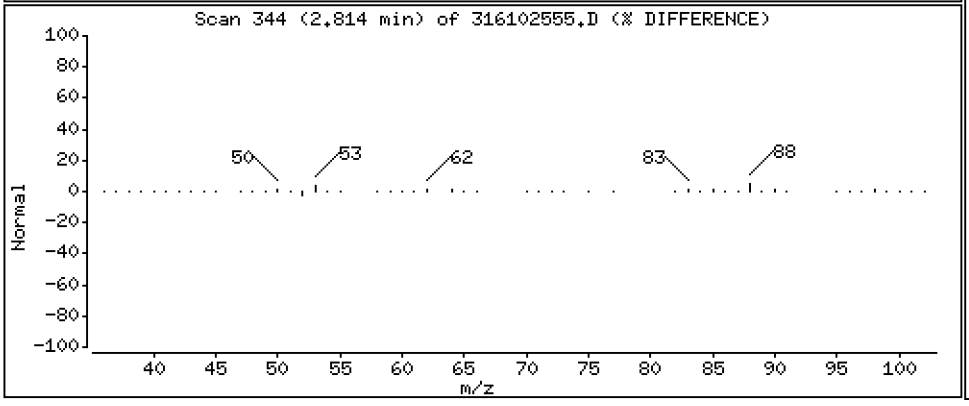












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 40

Date : 25-OCT-2016 23:28

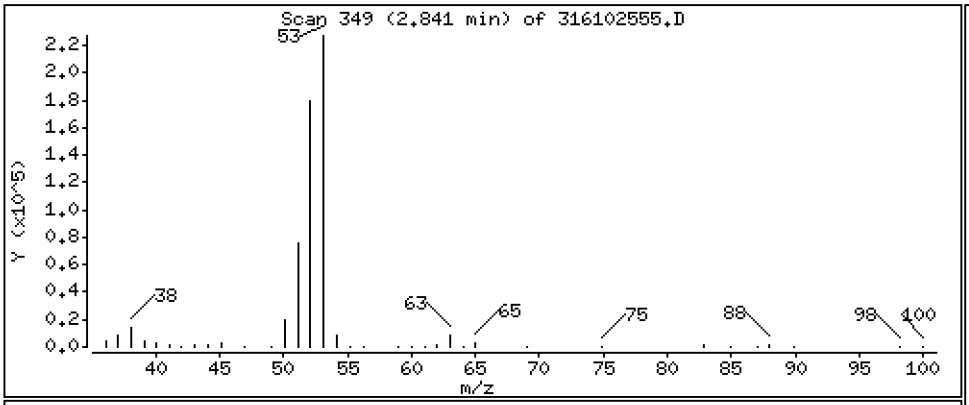
Client ID: LCS for HBN 174258 Instrument: ms03.i

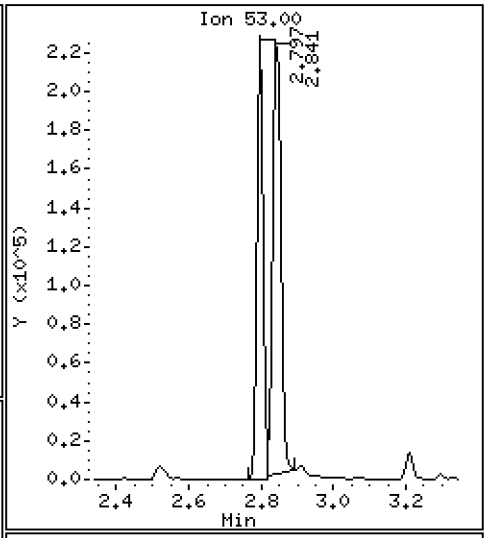
Sample Info: 2429302;;1;3;;LCS;1;

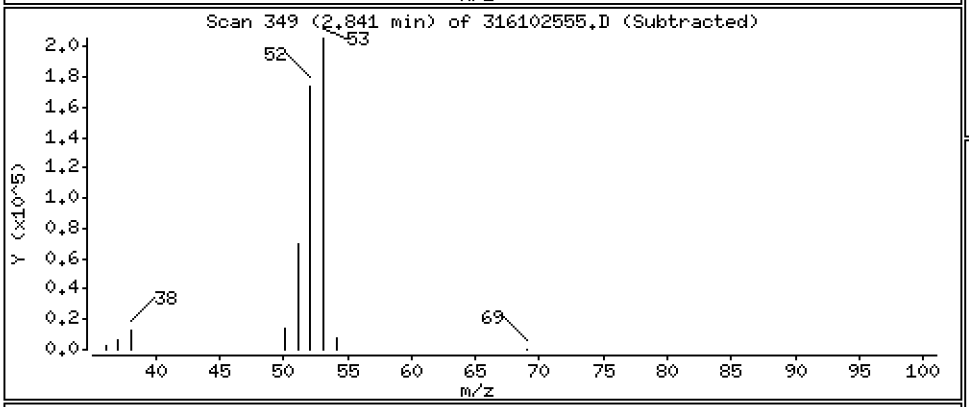
Purge Volume: 5.0 Operator: CJG

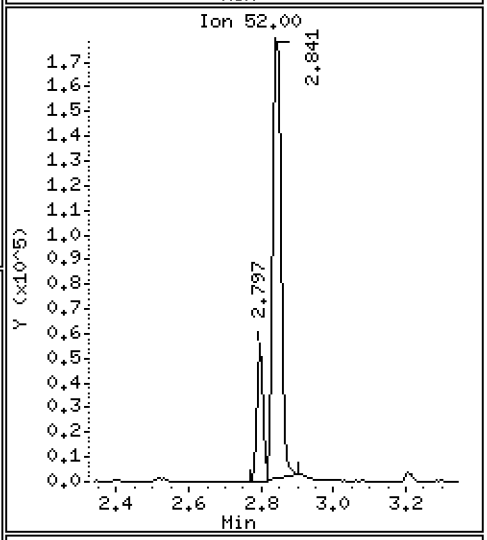
Column phase: DB-VRX Column diameter: 0.25

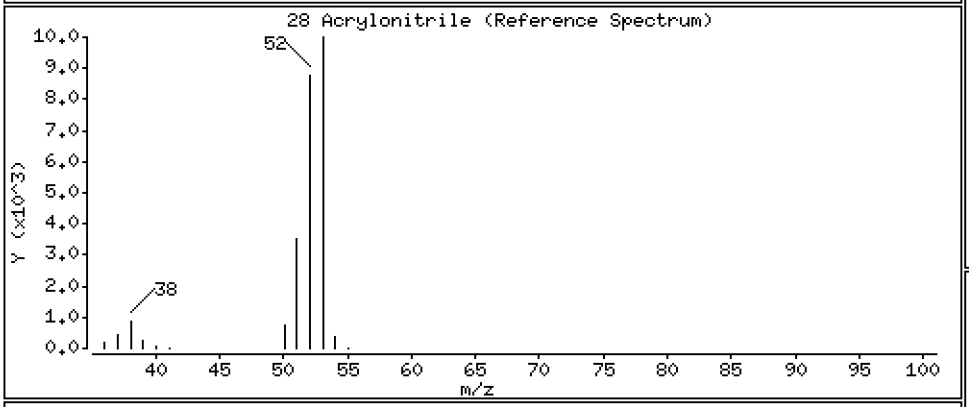
28 Acrylonitrile Concentration: 104.677 ug/L

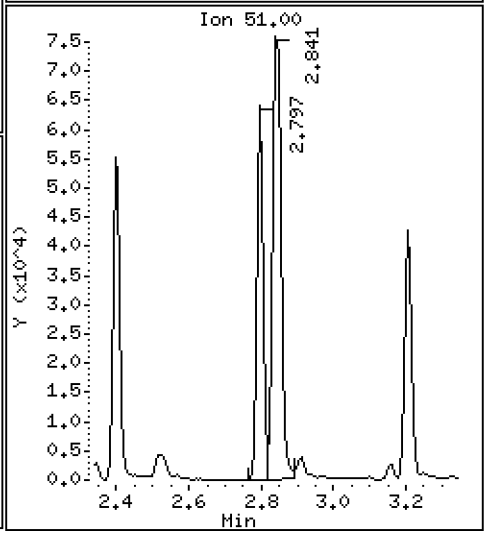


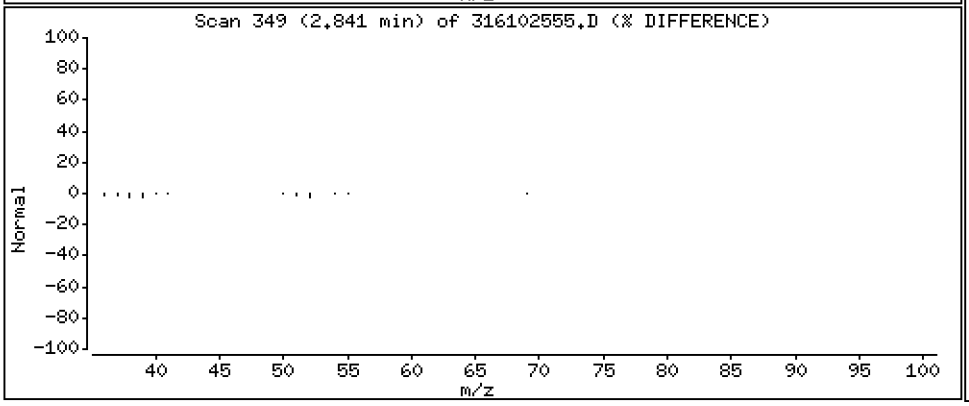












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 41

Date : 25-OCT-2016 23:28

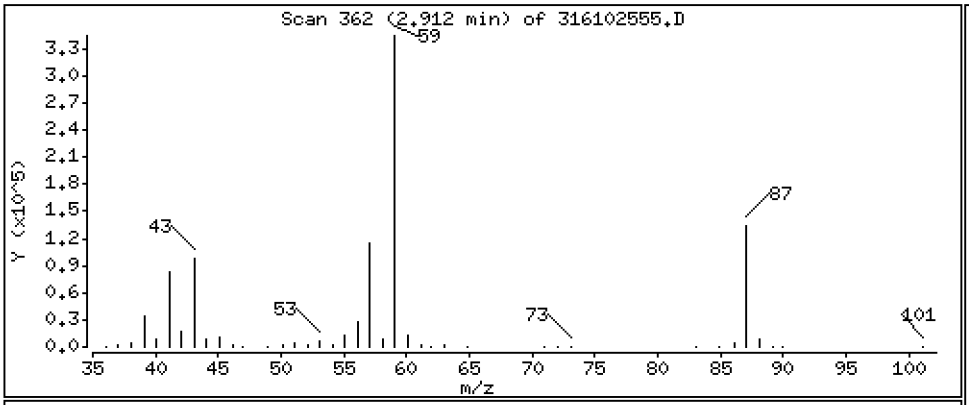
Client ID: LCS for HBN 174258 Instrument: ms03.i

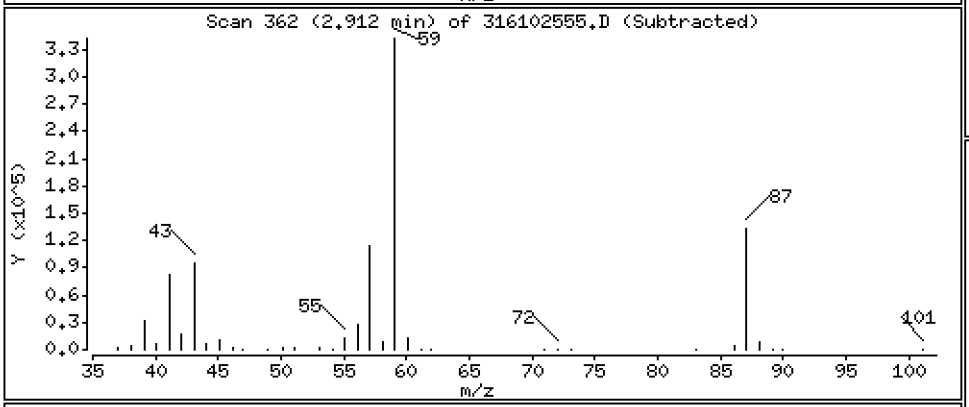
Sample Info: 2429302;;1;3;;LCS;1;

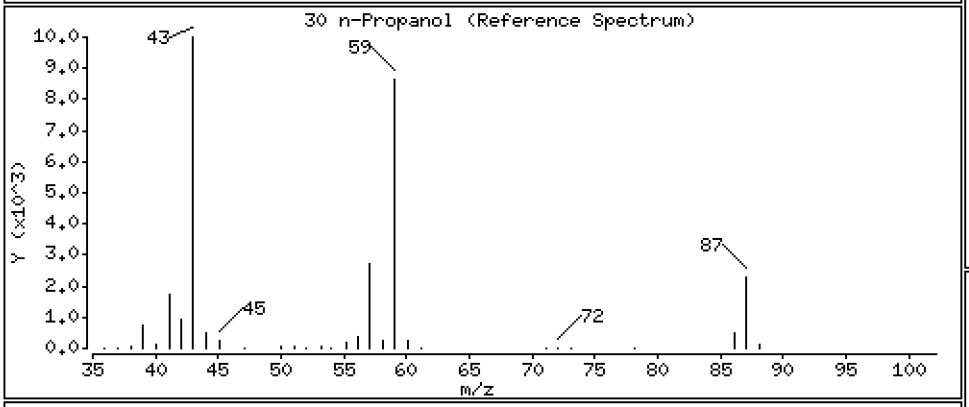
Purge Volume: 5.0 Operator: CJG

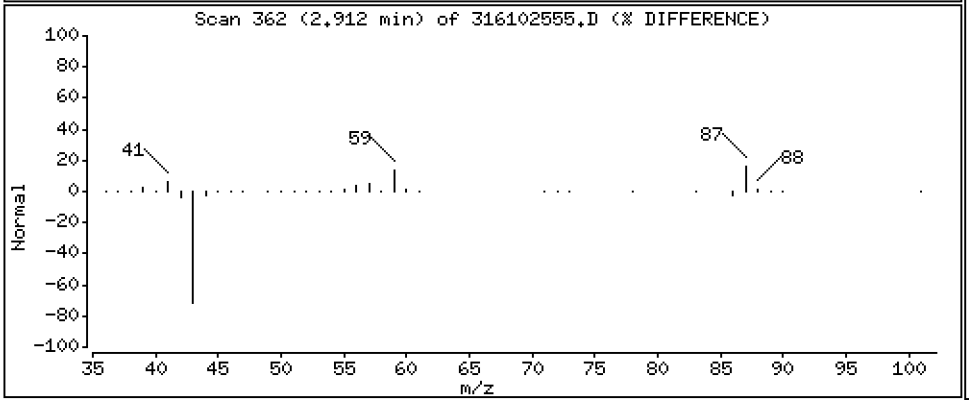
Column phase: DB-VRX Column diameter: 0.25

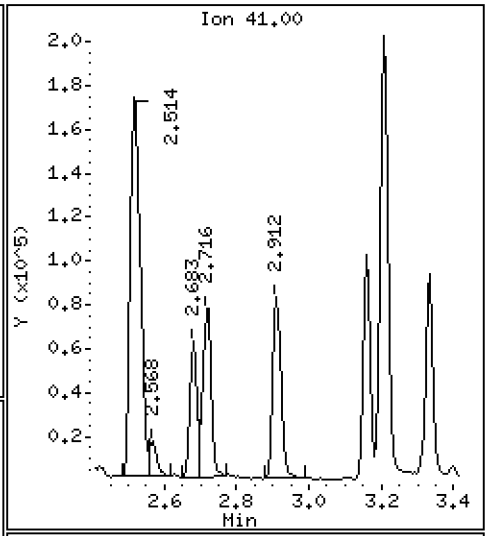
30 n-Propanol Concentration: 232.322 ug/L

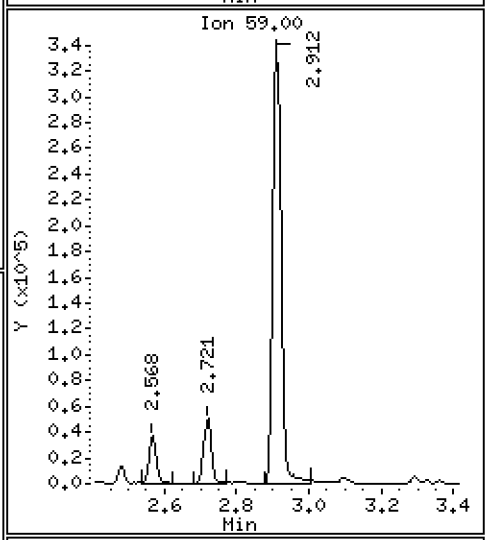


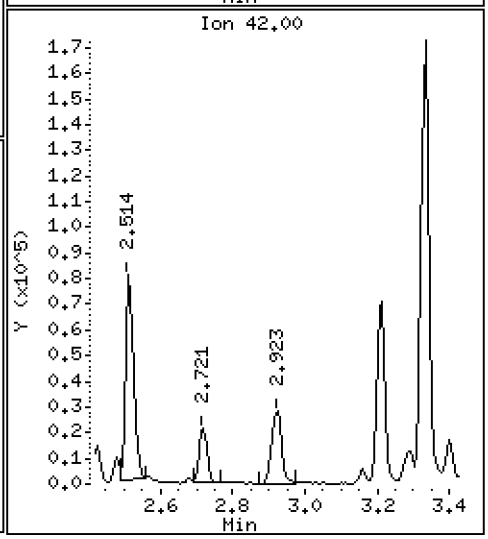












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 42

Date : 25-OCT-2016 23:28

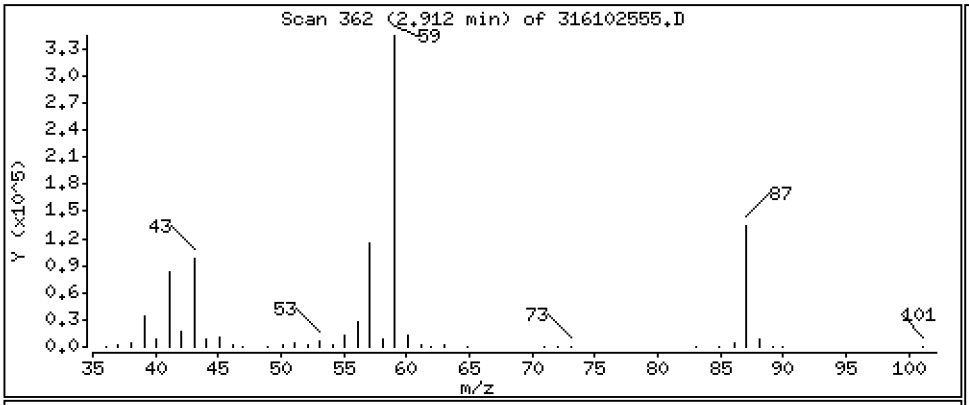
Client ID: LCS for HBN 174258 Instrument: ms03.i

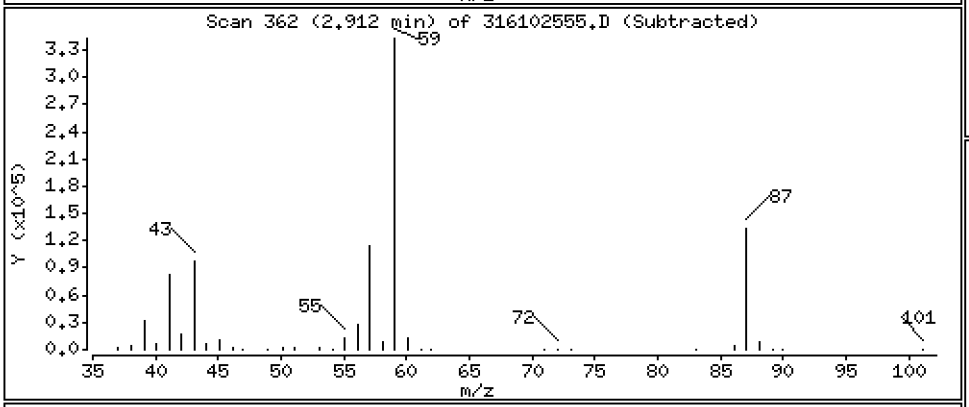
Sample Info: 2429302;;1;3;;LCS;1;

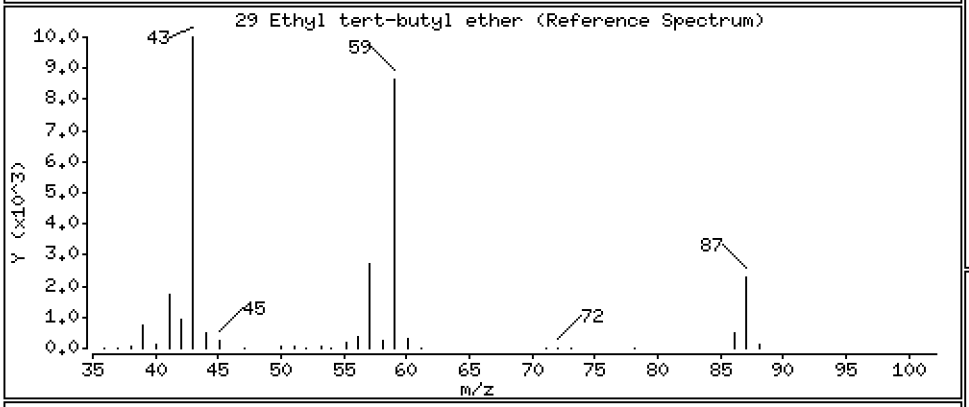
Purge Volume: 5.0 Operator: CJG

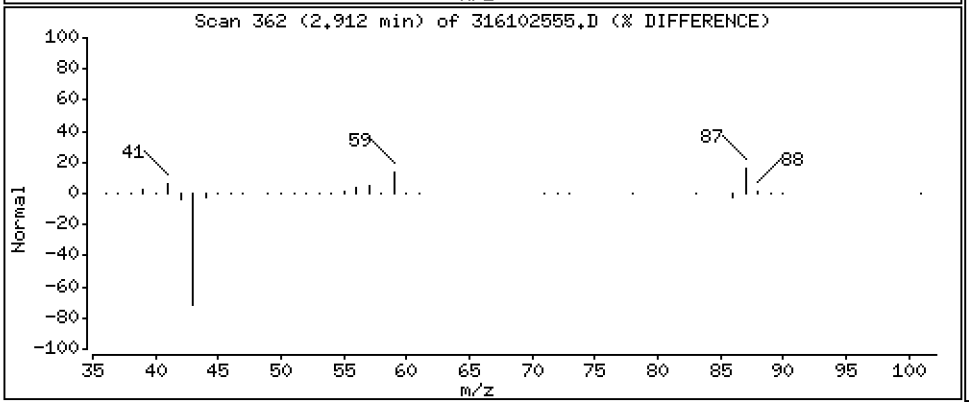
Column phase: DB-VRX Column diameter: 0.25

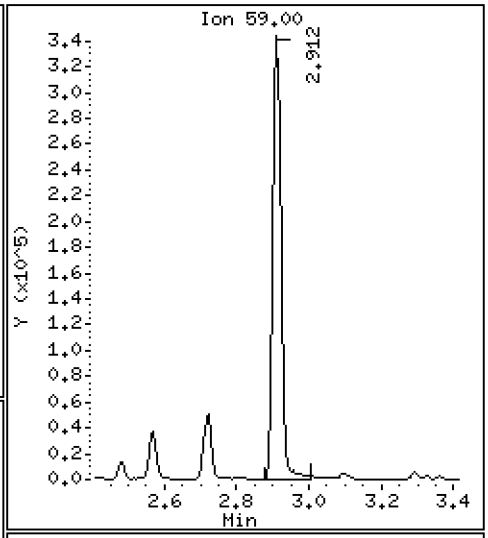
29 Ethyl tert-butyl ether Concentration: 20.1566 ug/L

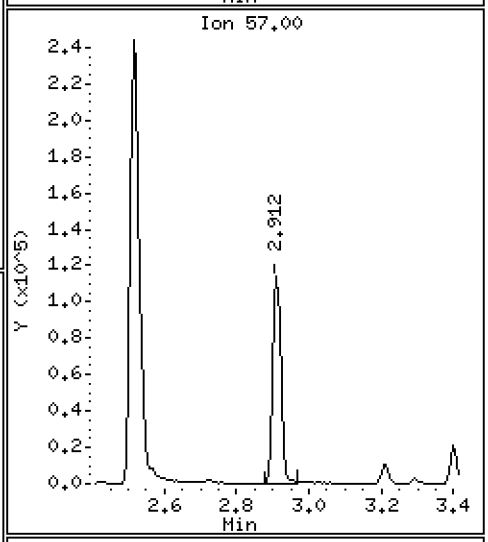


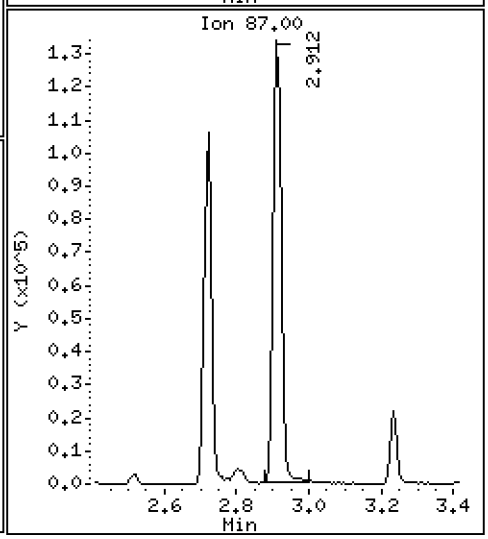












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 43

Date : 25-OCT-2016 23:28

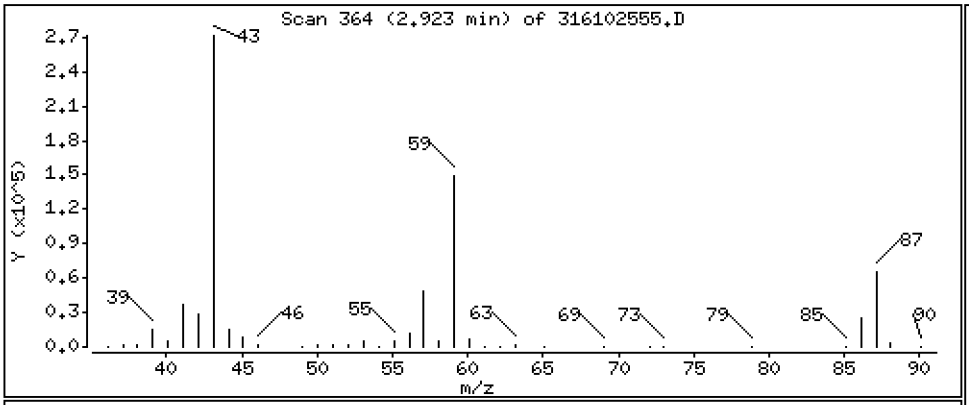
Client ID: LCS for HBN 174258 Instrument: ms03.i

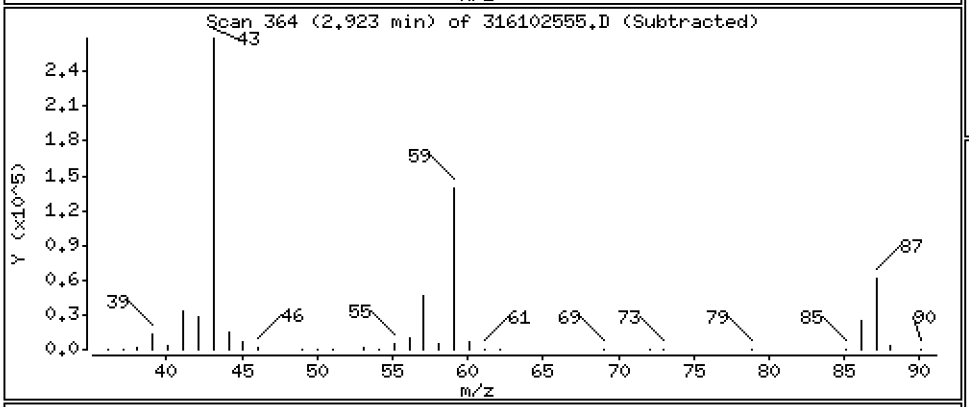
Sample Info: 2429302;;1;3;;LCS;1;

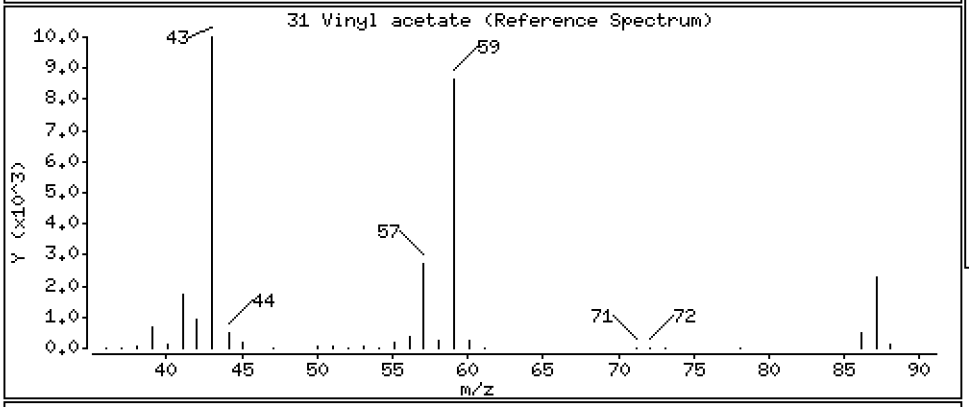
Purge Volume: 5.0 Operator: CJG

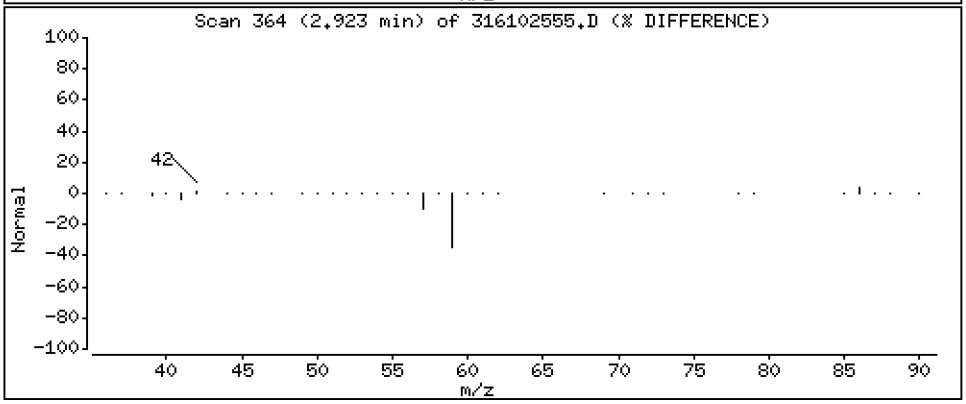
Column phase: DB-VRX Column diameter: 0.25

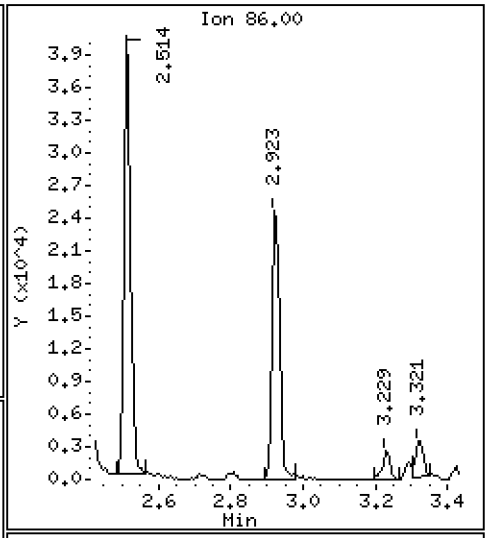
31 Vinyl acetate Concentration: 17.8225 ug/L

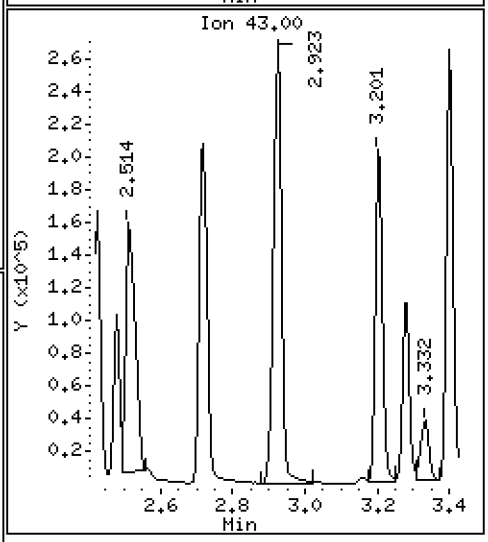












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 44

Date : 25-OCT-2016 23:28

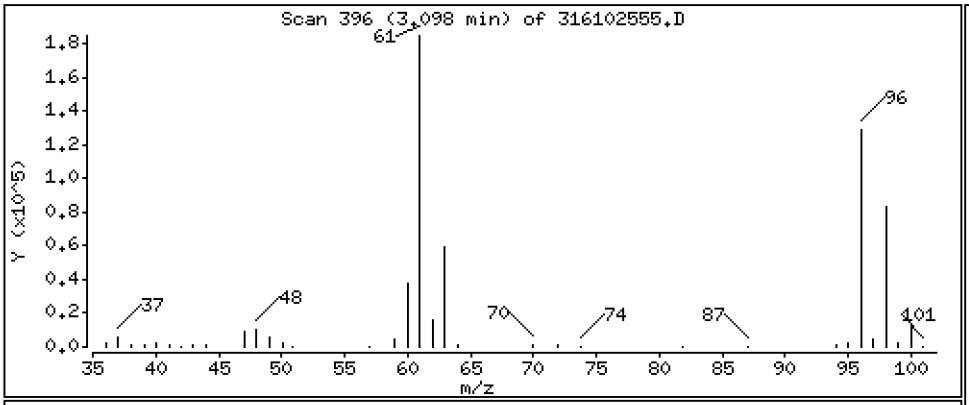
Client ID: LCS for HBN 174258 Instrument: ms03.i

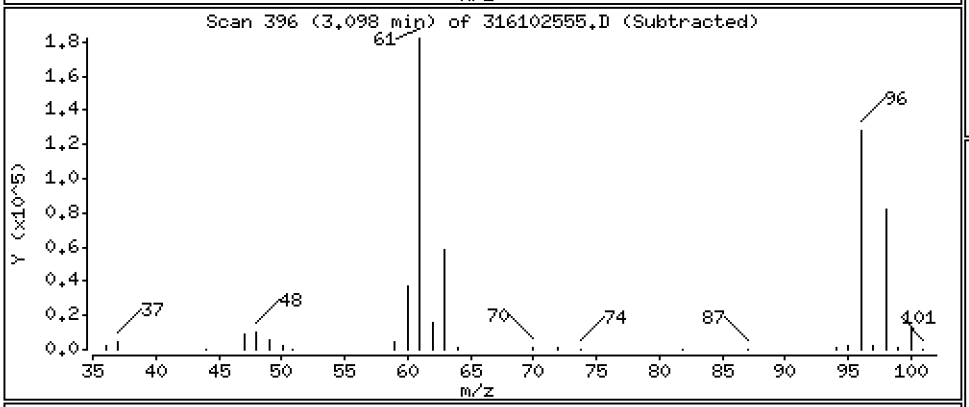
Sample Info: 2429302;;1;3;;LCS;1;

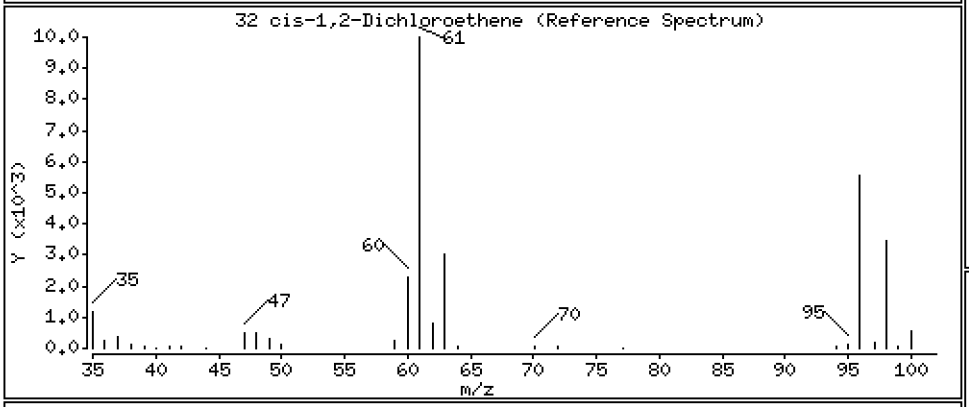
Purge Volume: 5.0 Operator: CJG

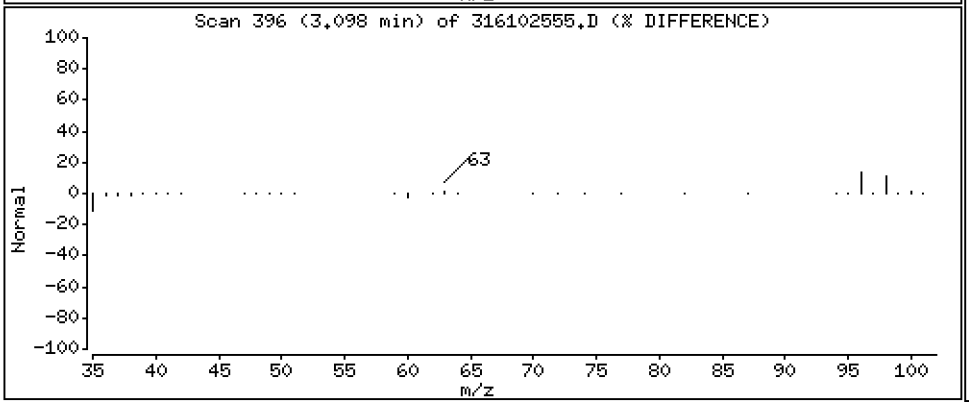
Column phase: DB-VRX Column diameter: 0.25

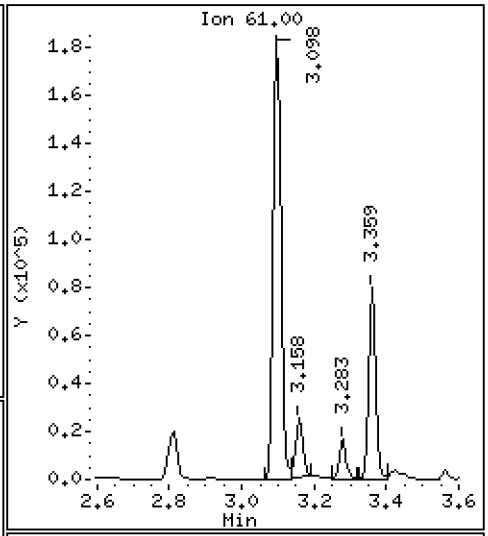
32 cis-1,2-Dichloroethene Concentration: 19.3944 ug/L

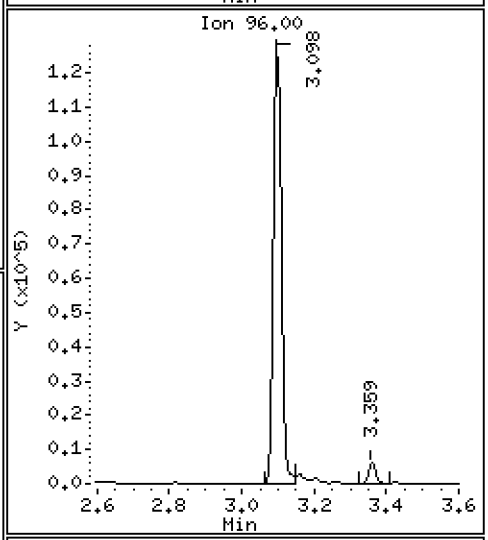


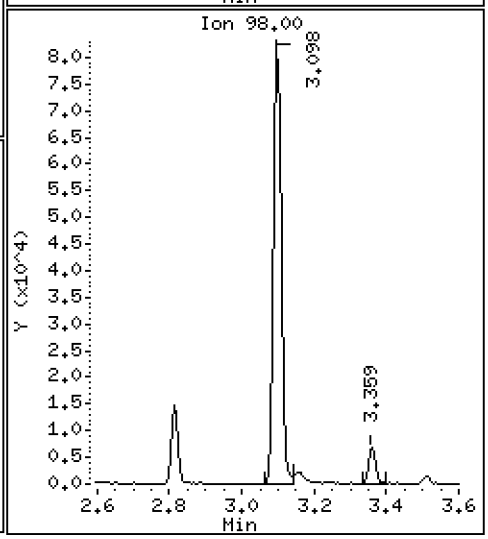












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 45

Date : 25-OCT-2016 23:28

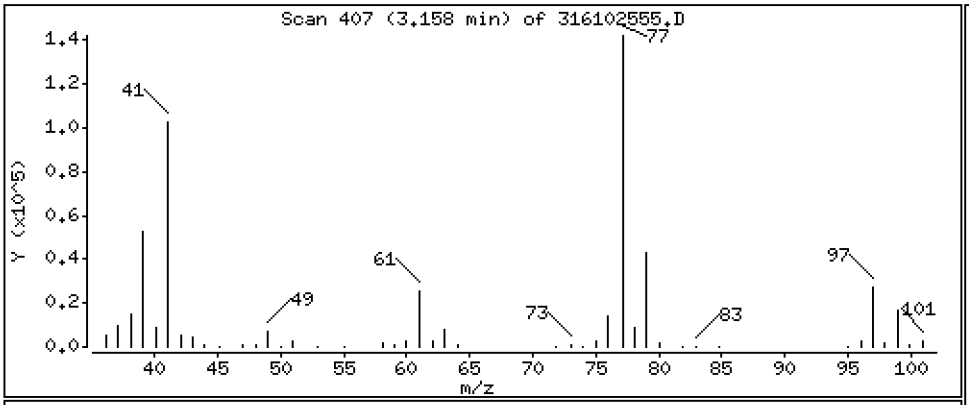
Client ID: LCS for HBN 174258 Instrument: ms03.i

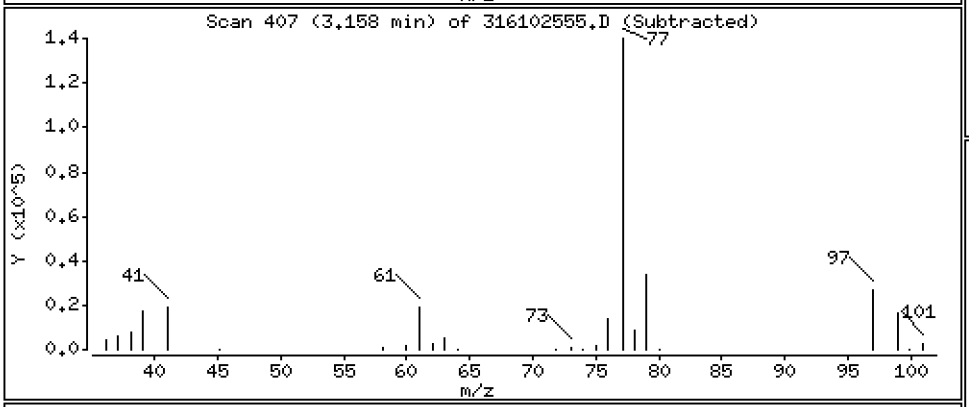
Sample Info: 2429302;;1;3;;LCS;1;

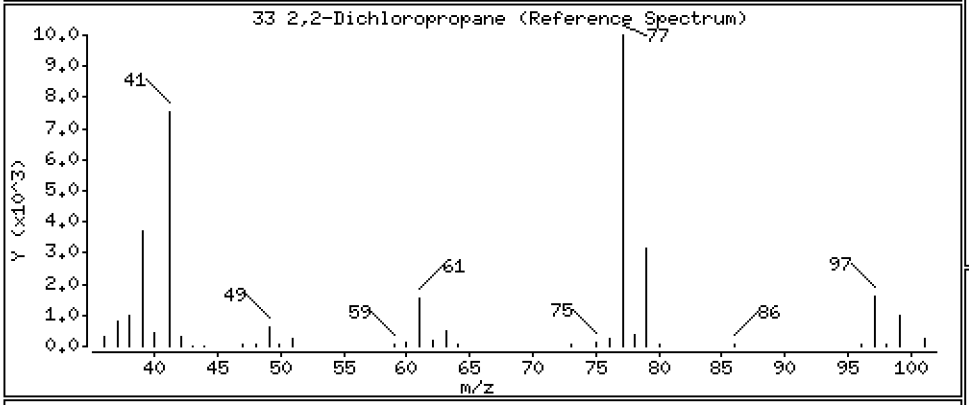
Purge Volume: 5.0 Operator: CJG

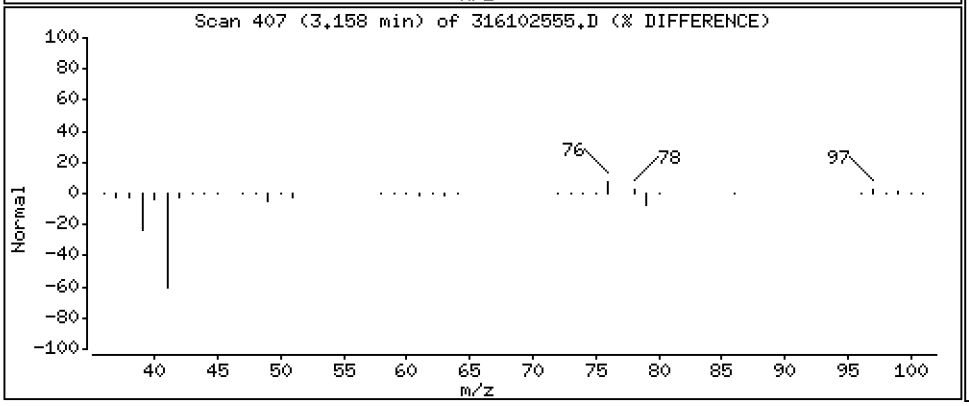
Column phase: DB-VRX Column diameter: 0.25

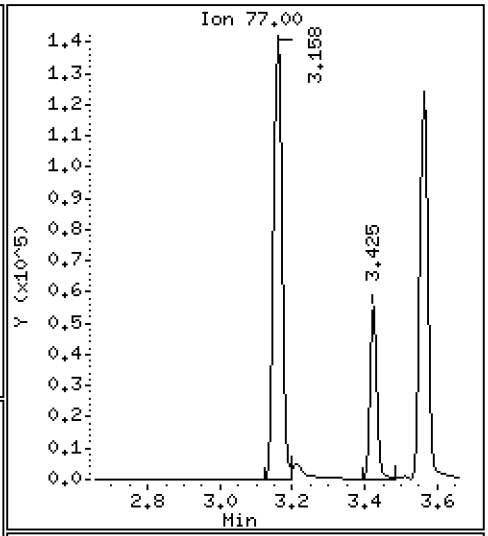
33 2,2-Dichloropropane Concentration: 20.8425 ug/L

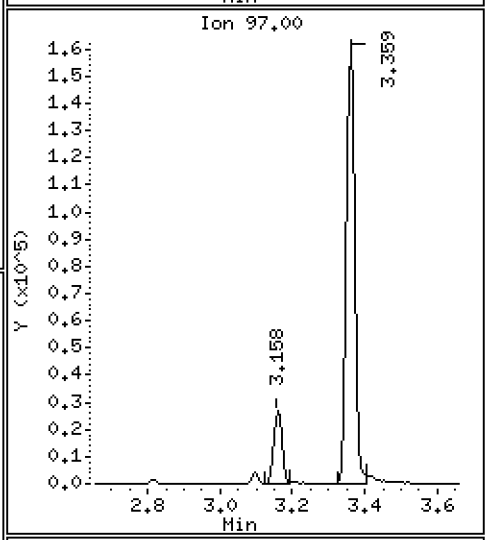


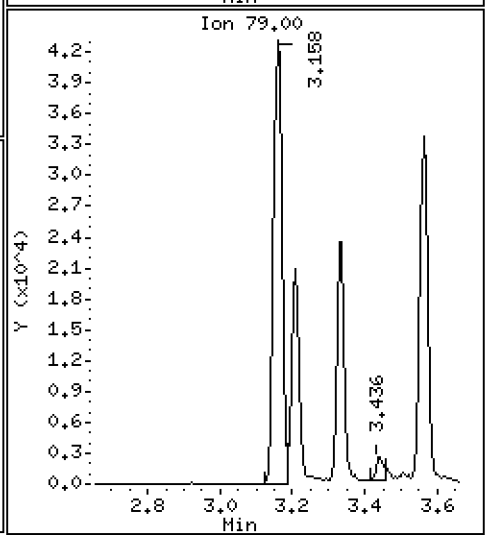












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 46

Date : 25-OCT-2016 23:28

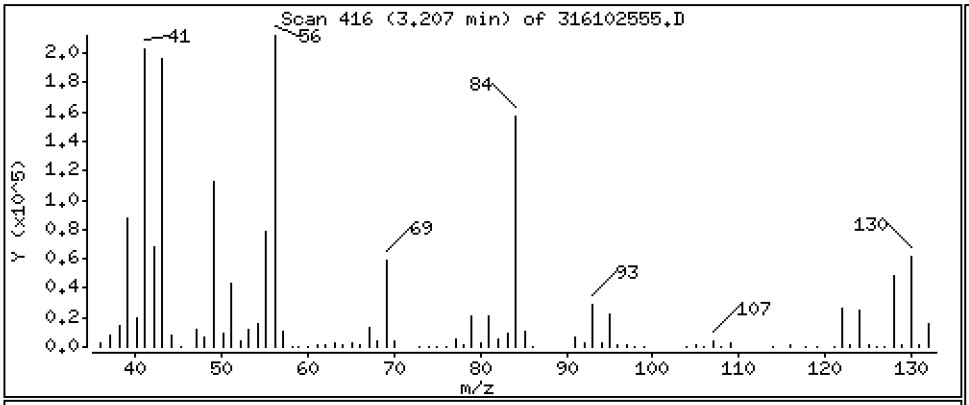
Client ID: LCS for HBN 174258 Instrument: ms03.i

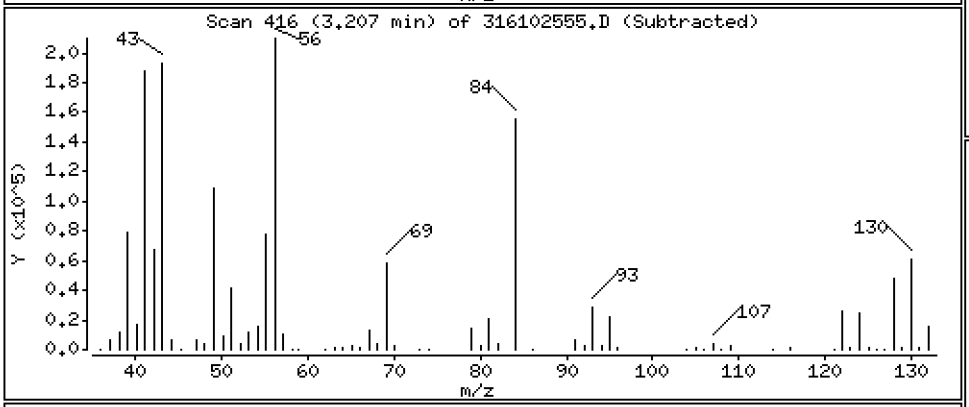
Sample Info: 2429302;;1;3;;LCS;1;

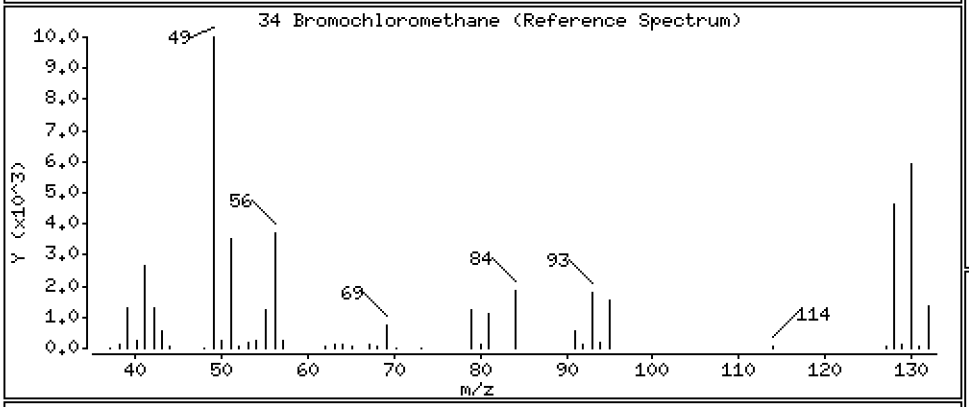
Purge Volume: 5.0 Operator: CJG

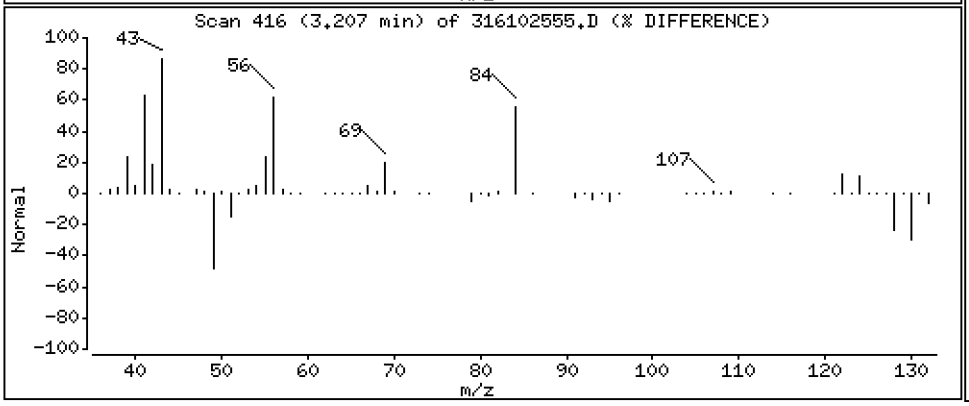
Column phase: DB-VRX Column diameter: 0.25

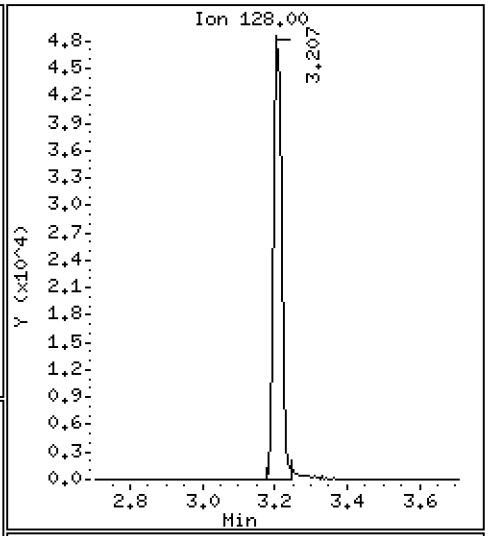
34 Bromochloromethane Concentration: 18.8557 ug/L

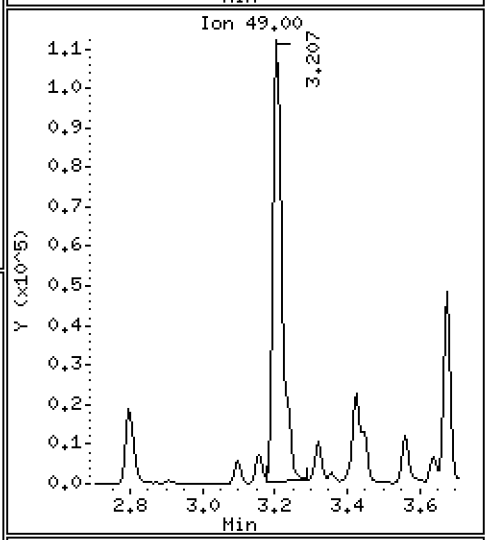


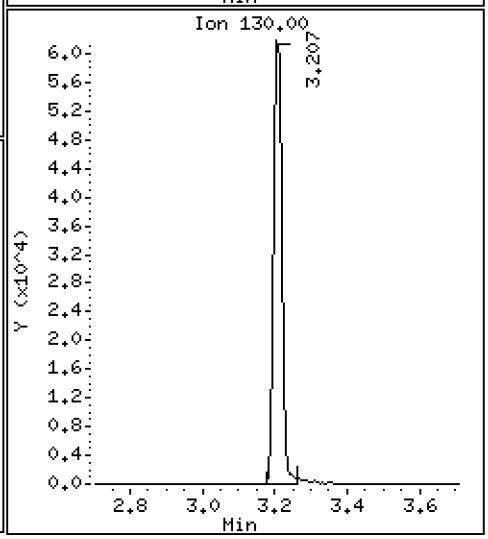












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 47

Date : 25-OCT-2016 23:28

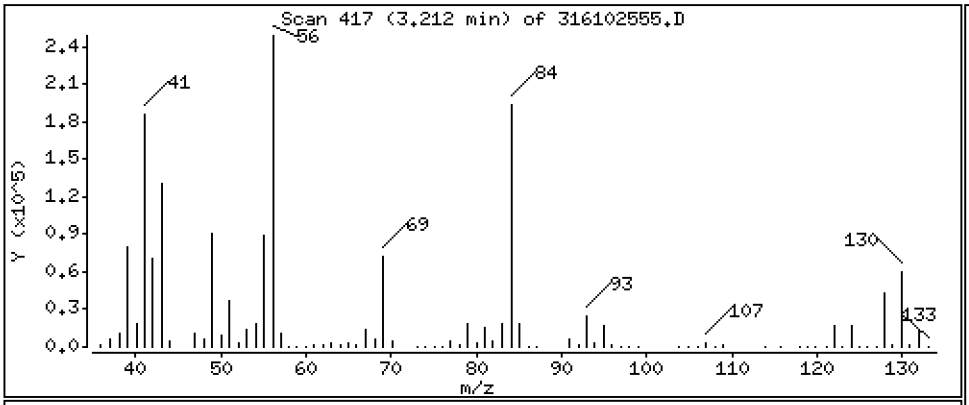
Client ID: LCS for HBN 174258 Instrument: ms03.i

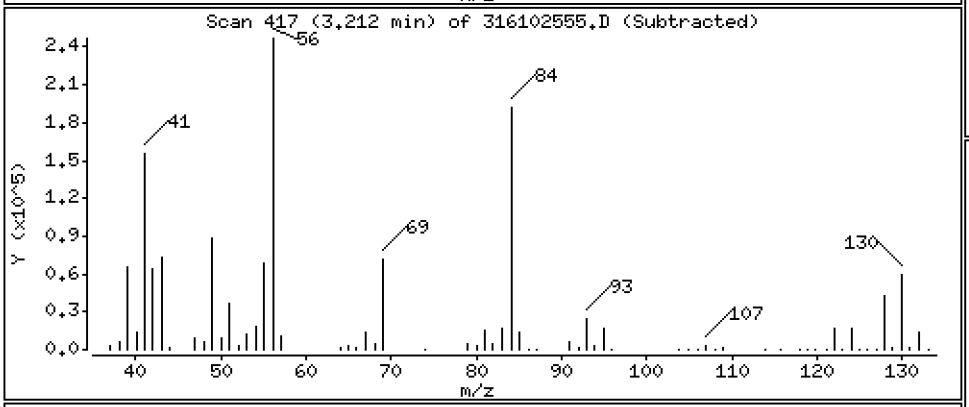
Sample Info: 2429302;;1;3;;LCS;1;

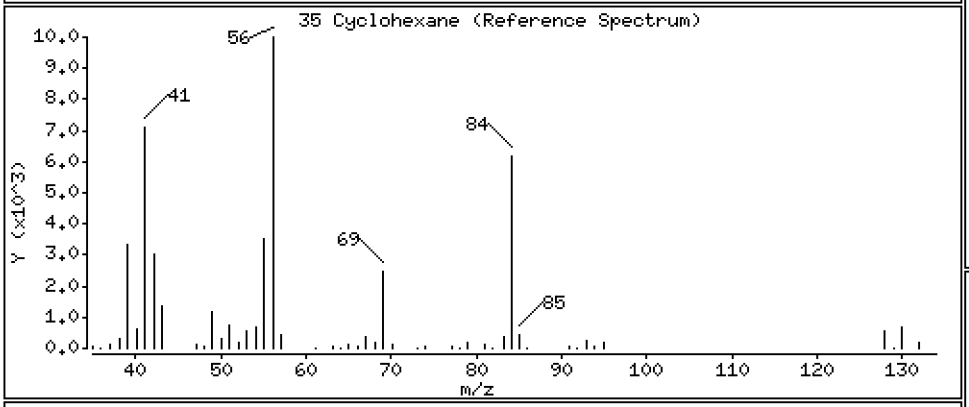
Purge Volume: 5.0 Operator: CJG

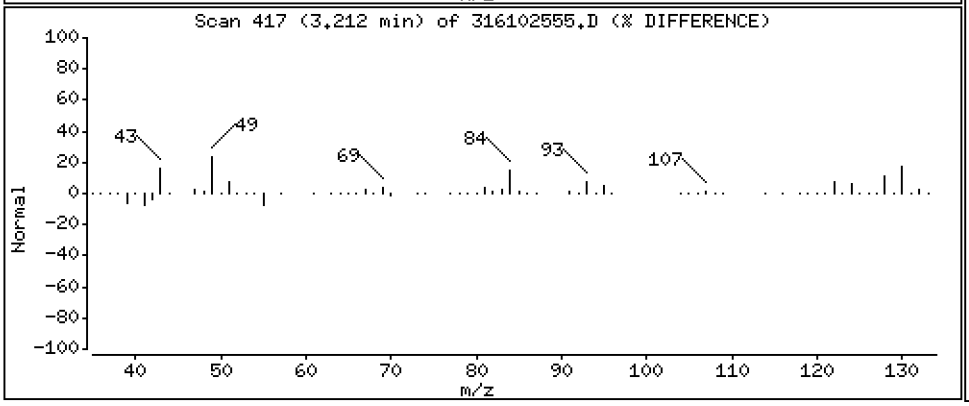
Column phase: DB-VRX Column diameter: 0.25

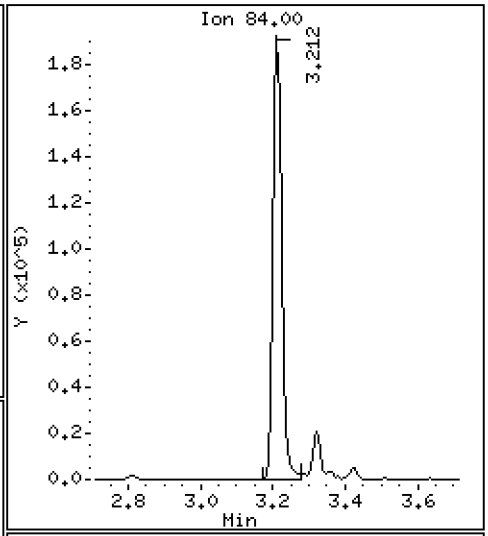
35 Cyclohexane Concentration: 21.4060 ug/L

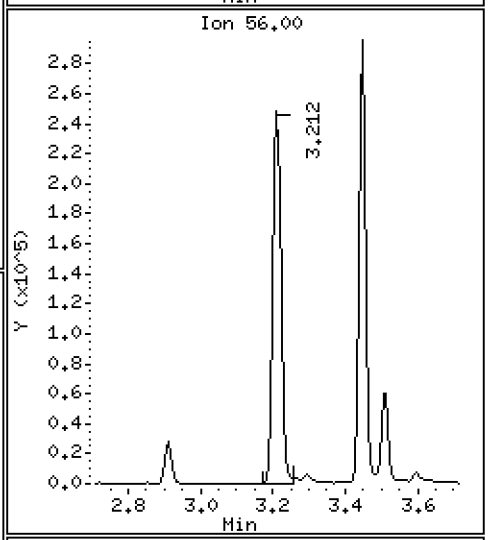


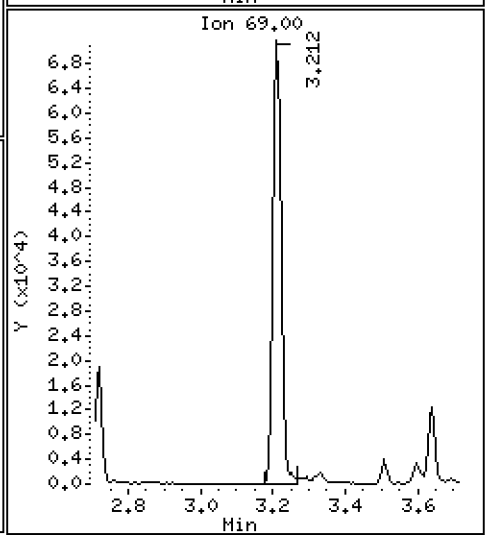












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 48

Date : 25-OCT-2016 23:28

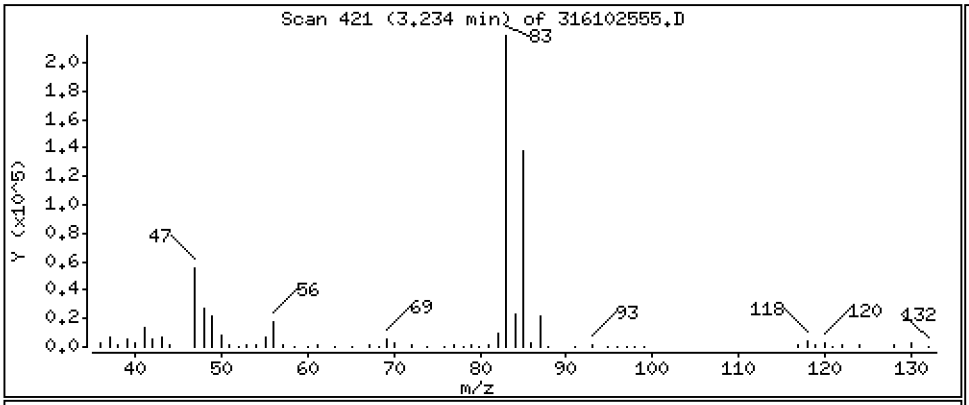
Client ID: LCS for HBN 174258 Instrument: ms03.i

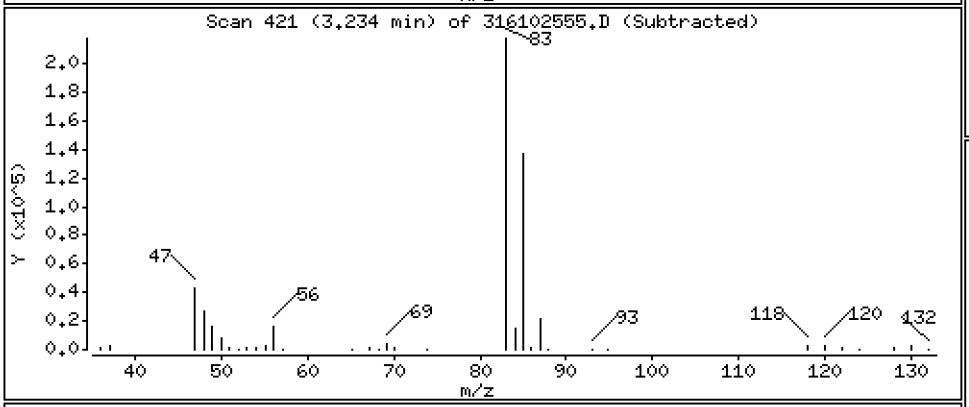
Sample Info: 2429302;;1;3;;LCS;1;

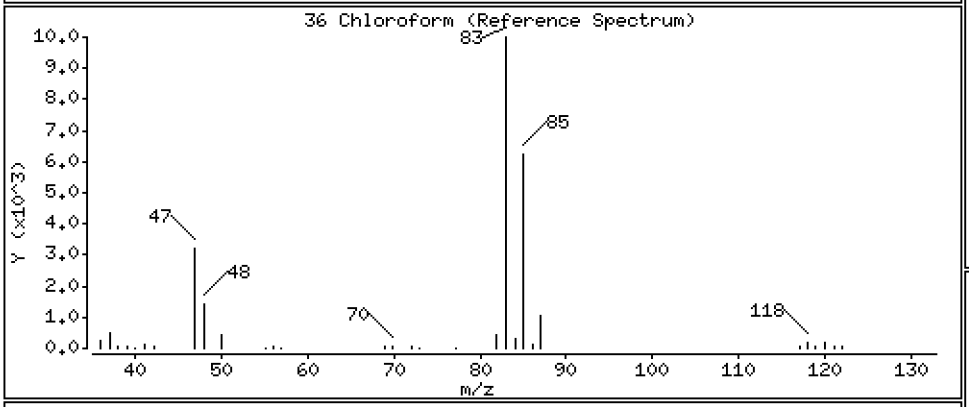
Purge Volume: 5.0 Operator: CJG

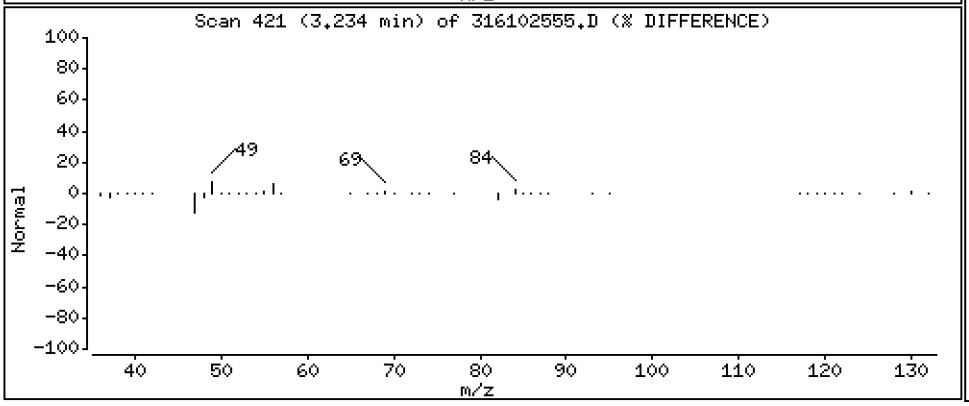
Column phase: DB-VRX Column diameter: 0.25

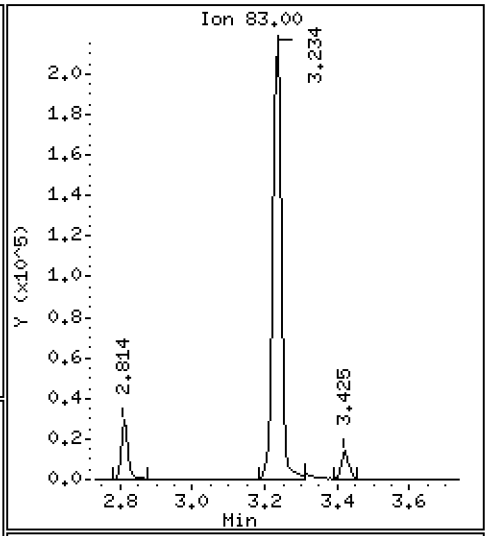
36 Chloroform Concentration: 20.6609 ug/L

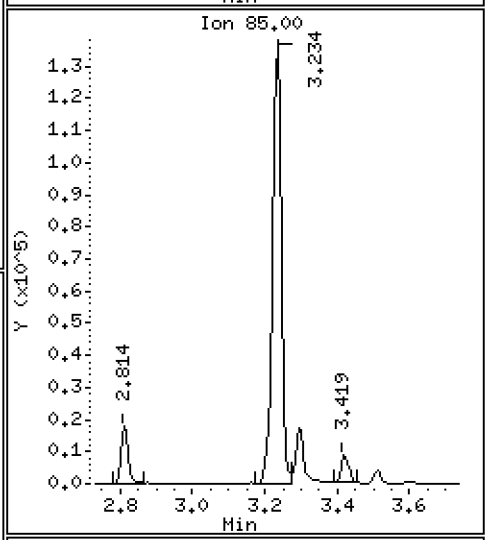


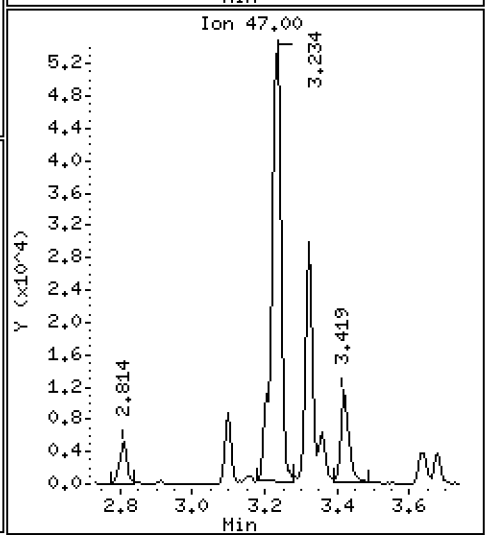












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 49

Date : 25-OCT-2016 23:28

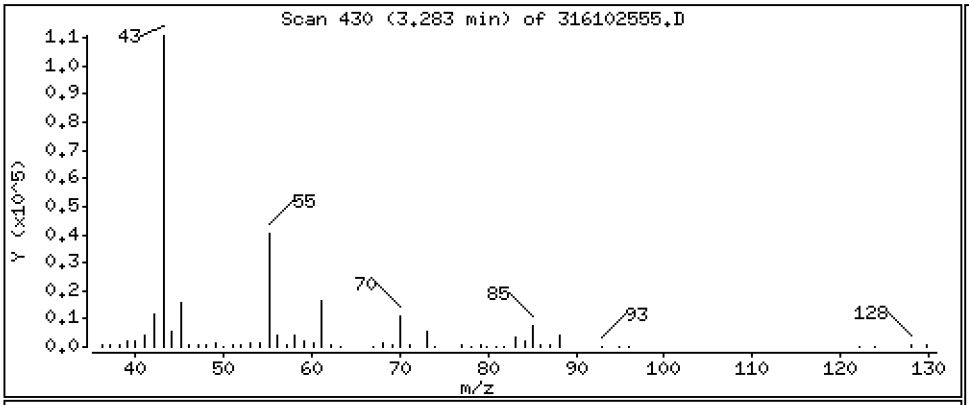
Client ID: LCS for HBN 174258 Instrument: ms03.i

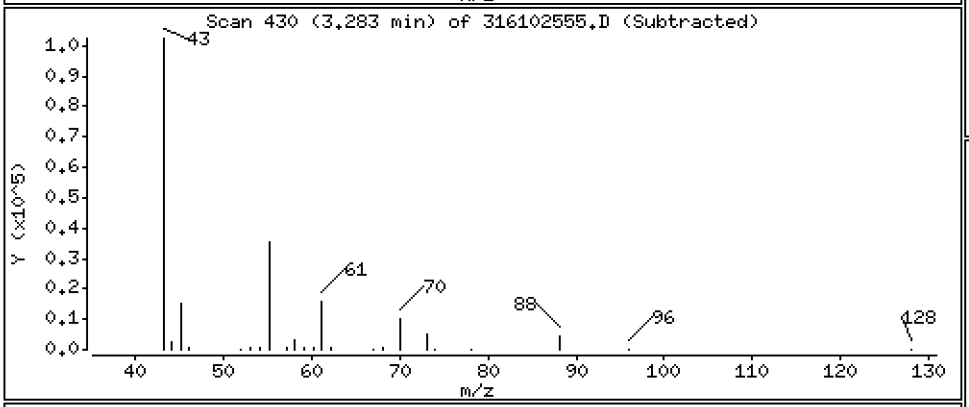
Sample Info: 2429302;;1;3;;LCS;1;

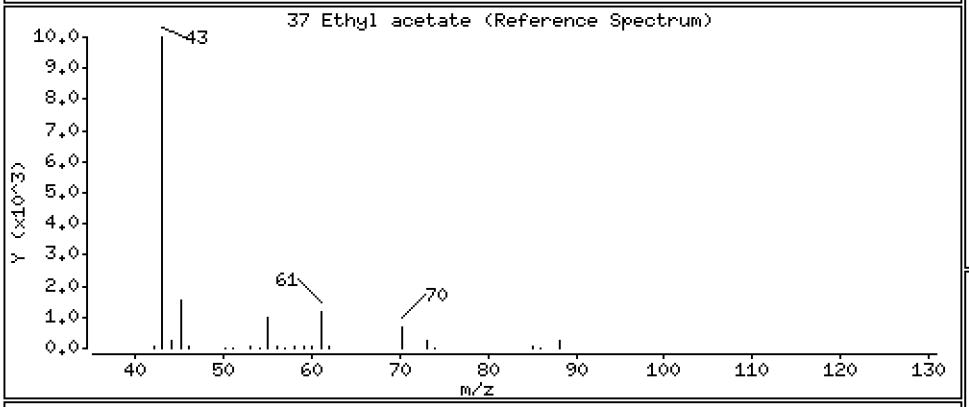
Purge Volume: 5.0 Operator: CJG

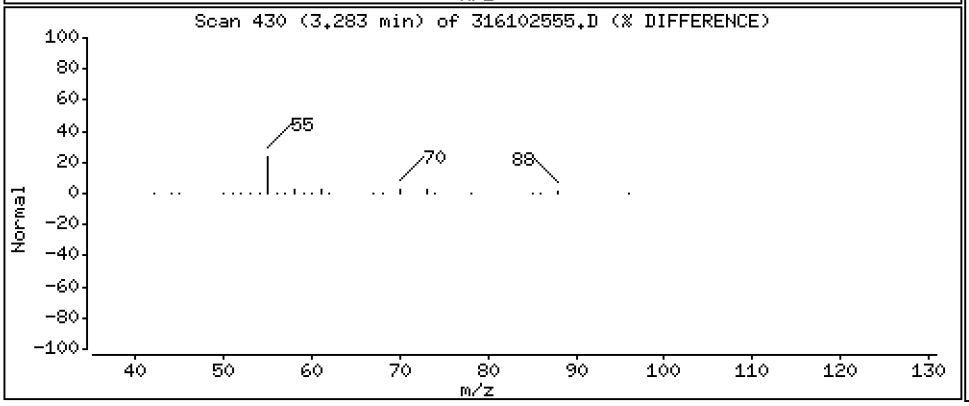
Column phase: DB-VRX Column diameter: 0.25

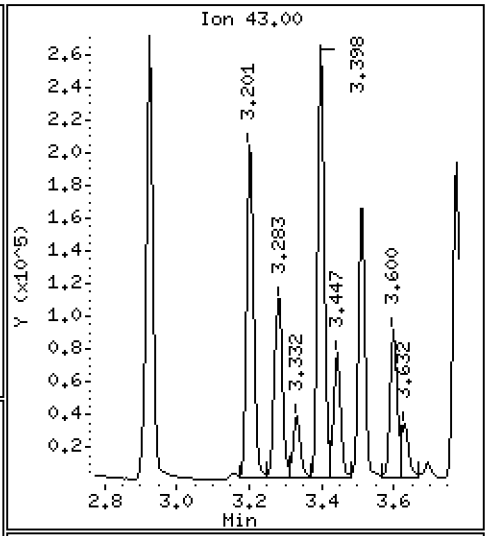
37 Ethyl acetate Concentration: 21.4443 ug/L

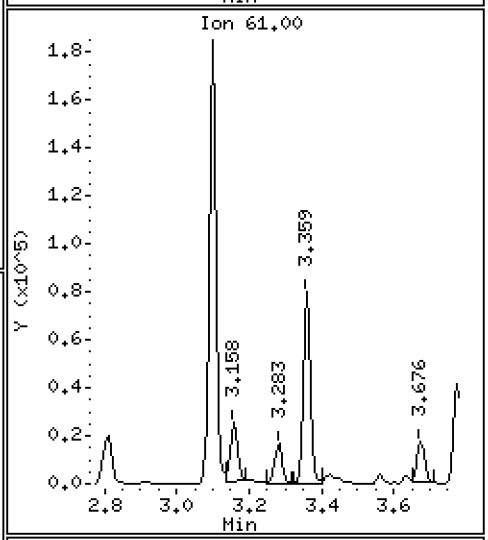


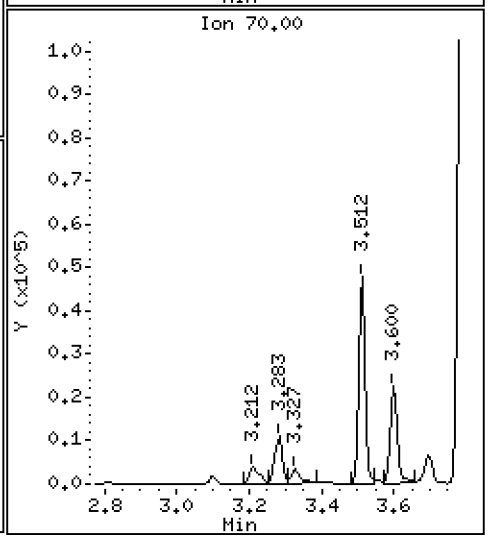












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 50

Date : 25-OCT-2016 23:28

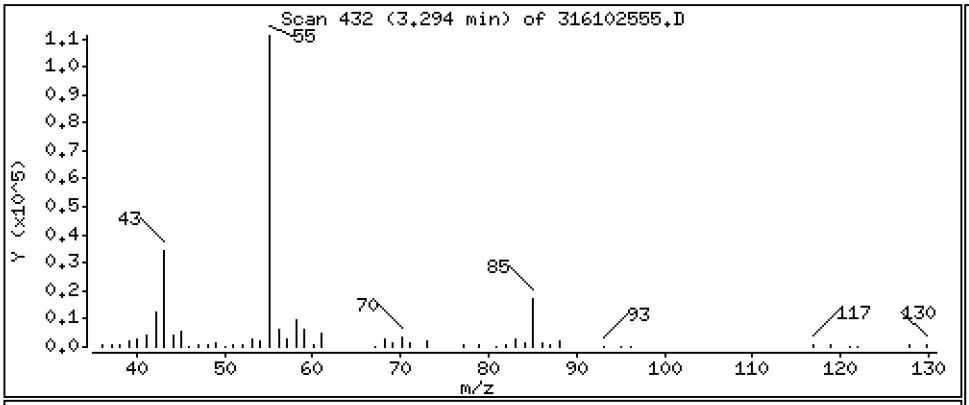
Client ID: LCS for HBN 174258 Instrument: ms03.i

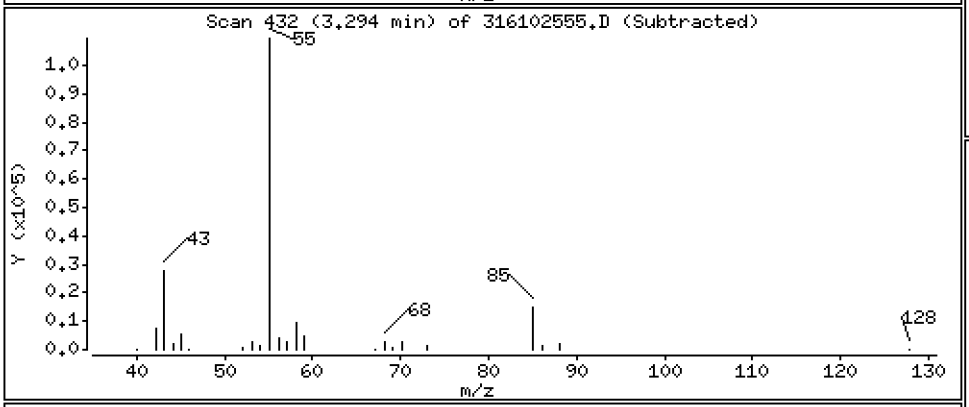
Sample Info: 2429302;;1;3;;LCS;1;

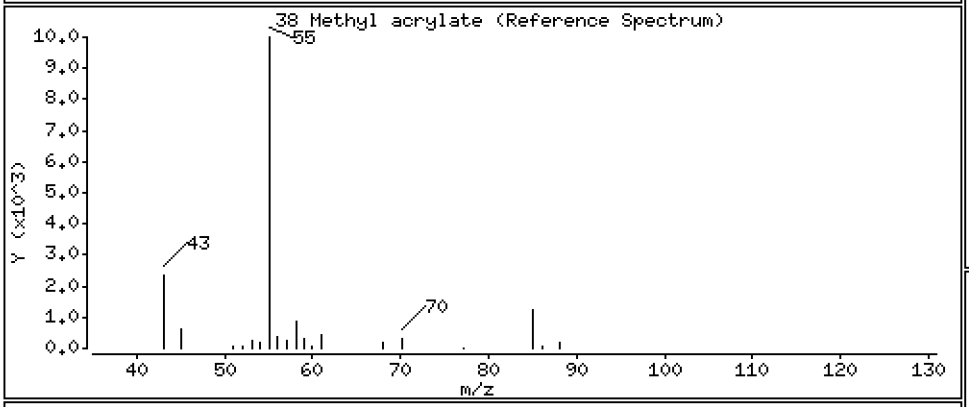
Purge Volume: 5.0 Operator: CJG

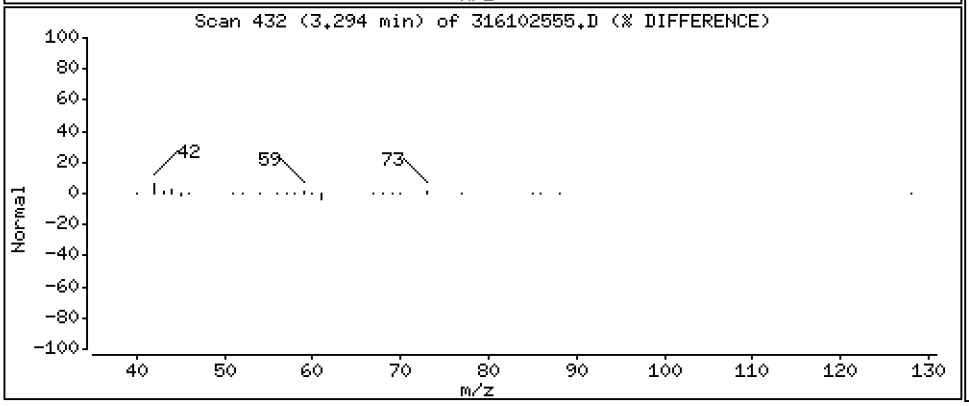
Column phase: DB-VRX Column diameter: 0.25

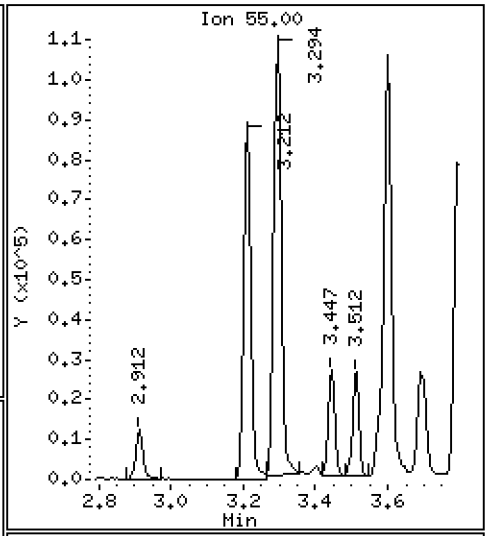
38 Methyl acrylate Concentration: 20.2892 ug/L

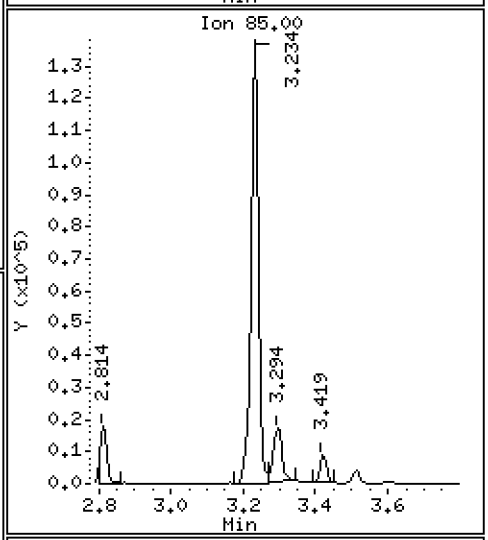


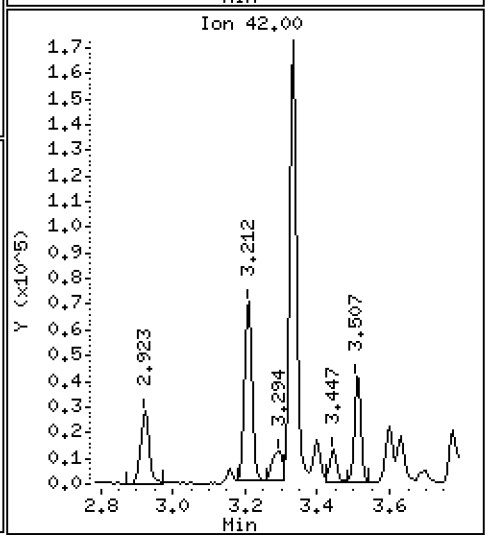












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 51

Date : 25-OCT-2016 23:28

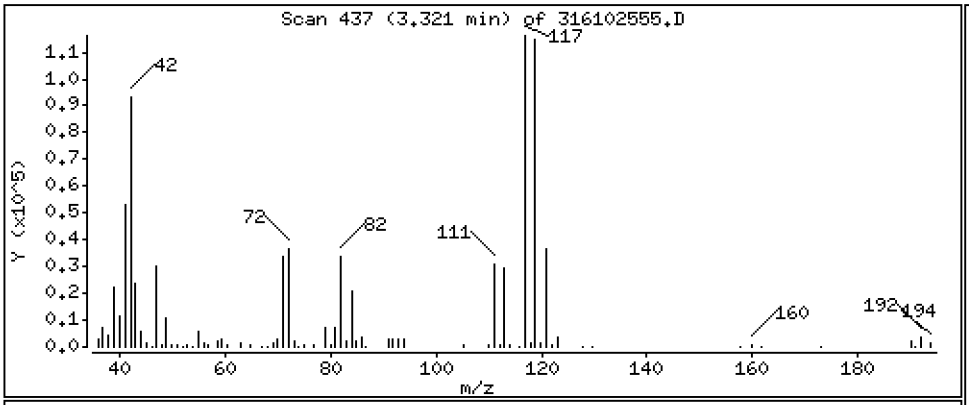
Client ID: LCS for HBN 174258 Instrument: ms03.i

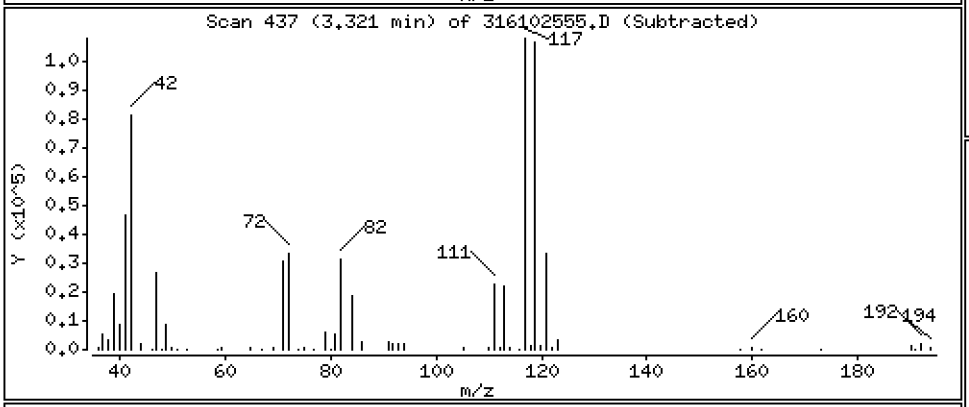
Sample Info: 2429302;;1;3;;LCS;1;

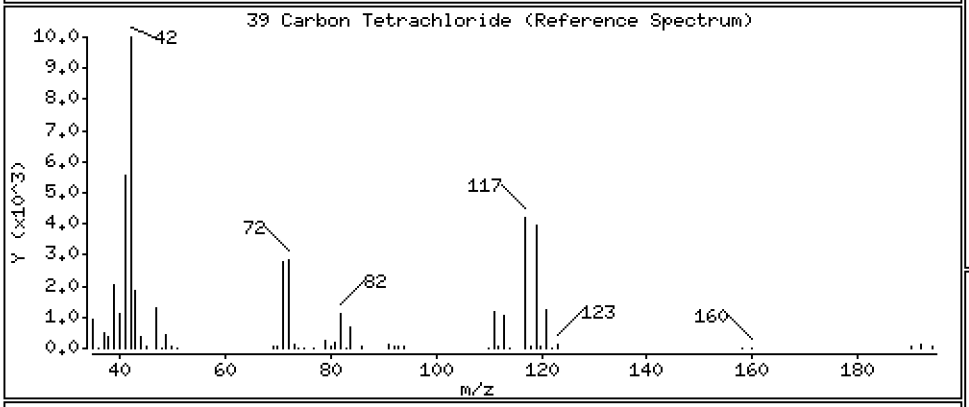
Purge Volume: 5.0 Operator: CJG

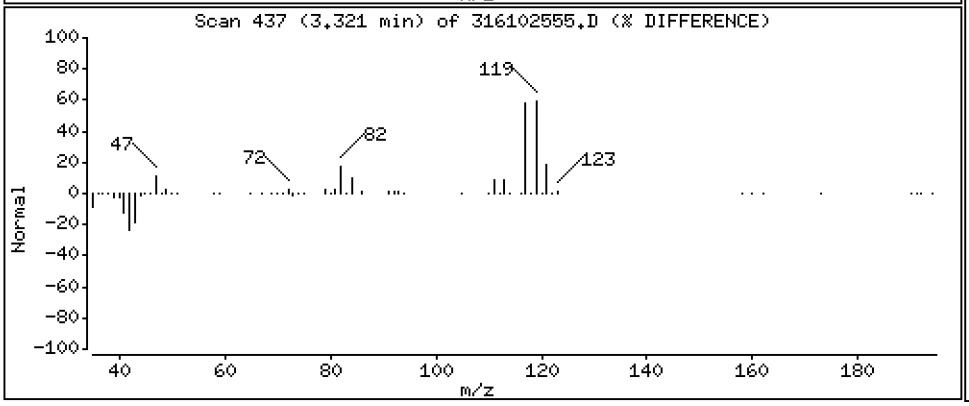
Column phase: DB-VRX Column diameter: 0.25

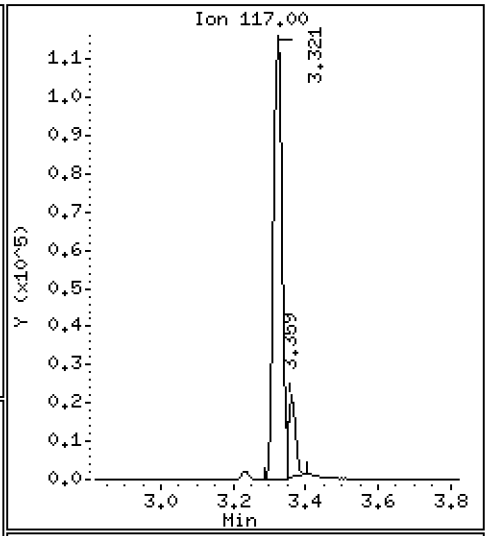
39 Carbon Tetrachloride Concentration: 19.8609 ug/L

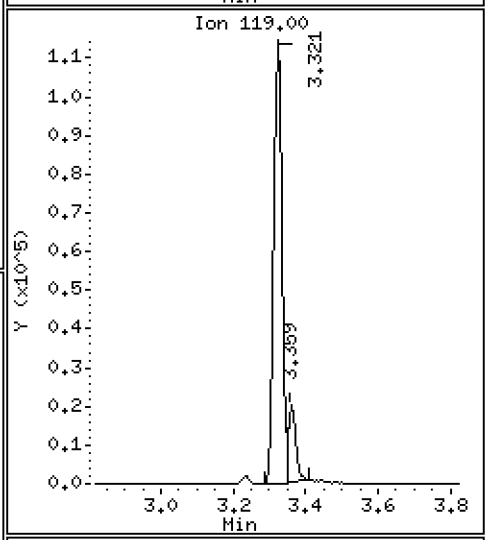


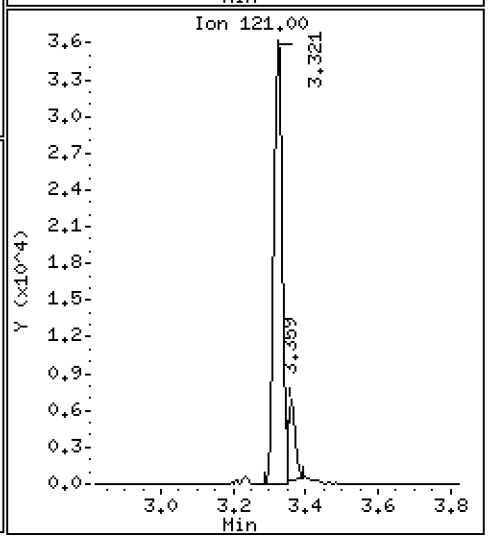












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 52

Date : 25-OCT-2016 23:28

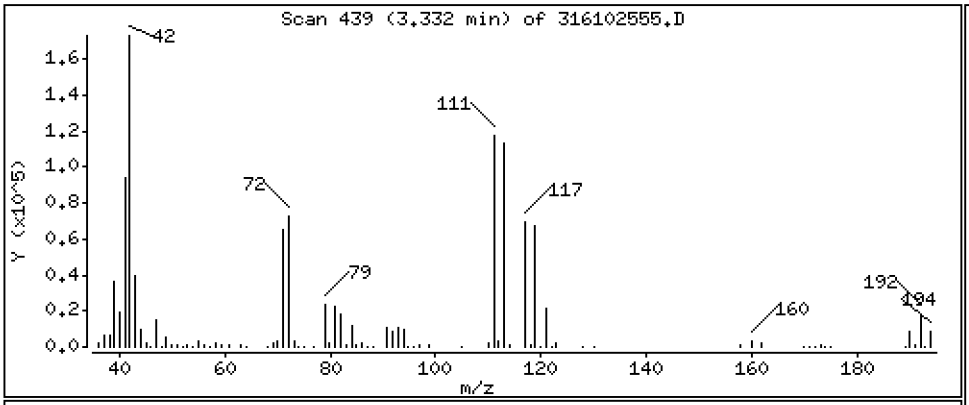
Client ID: LCS for HBN 174258 Instrument: ms03.i

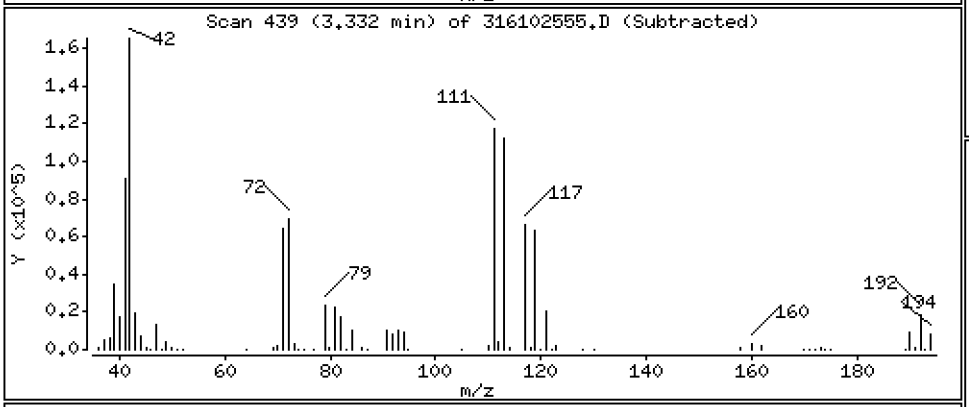
Sample Info: 2429302;;1;3;;LCS;1;

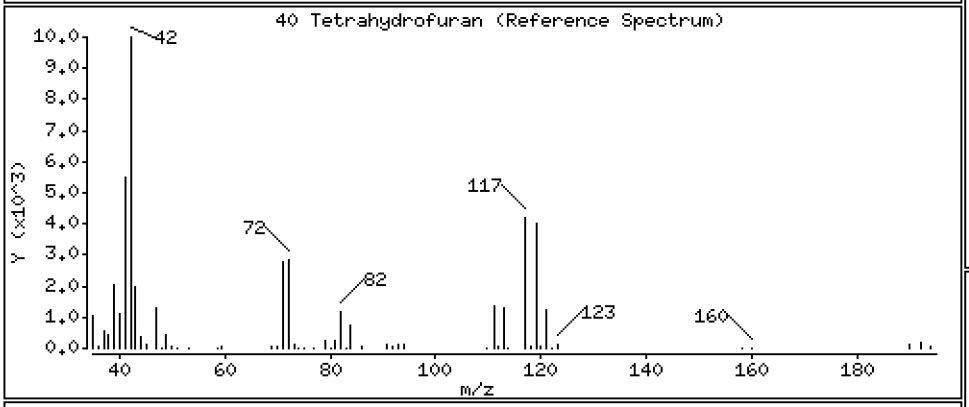
Purge Volume: 5.0 Operator: CJG

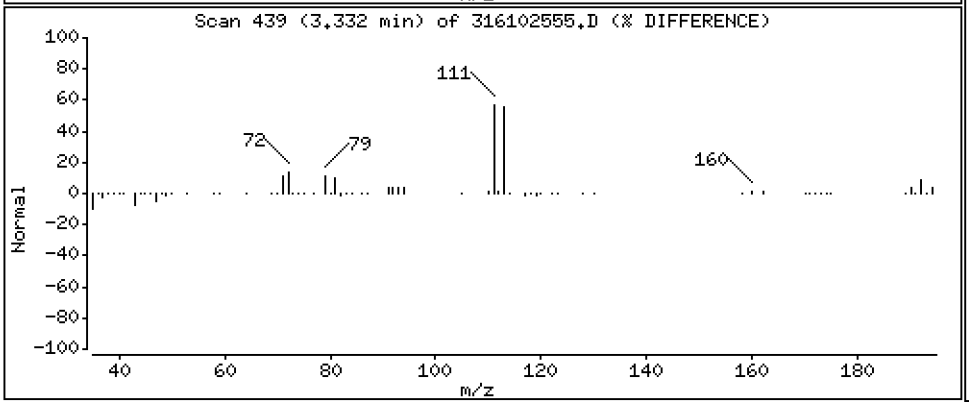
Column phase: DB-VRX Column diameter: 0.25

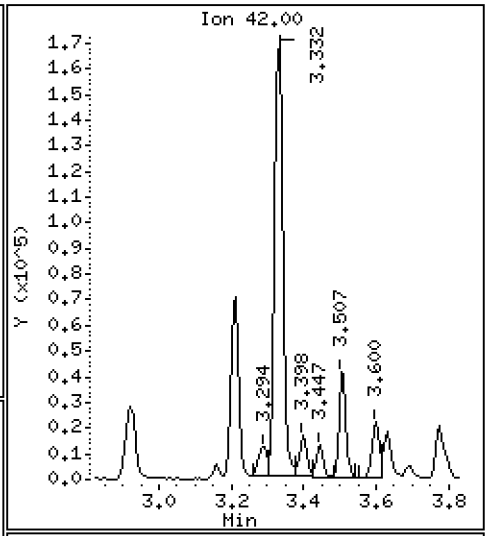
40 Tetrahydrofuran Concentration: 106.020 ug/L

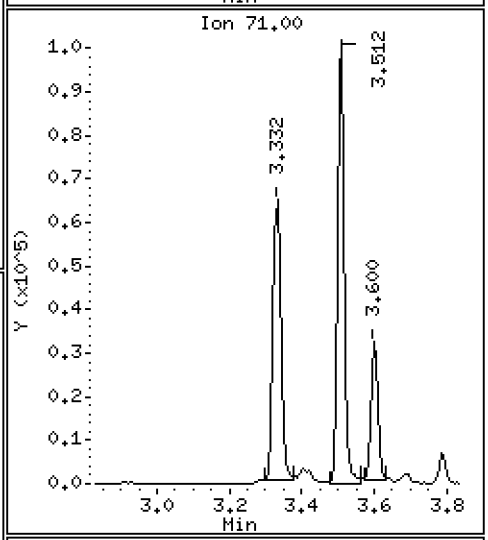


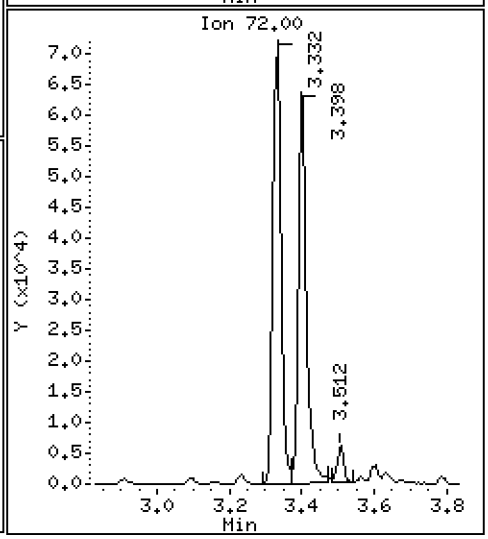












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 53

Date : 25-OCT-2016 23:28

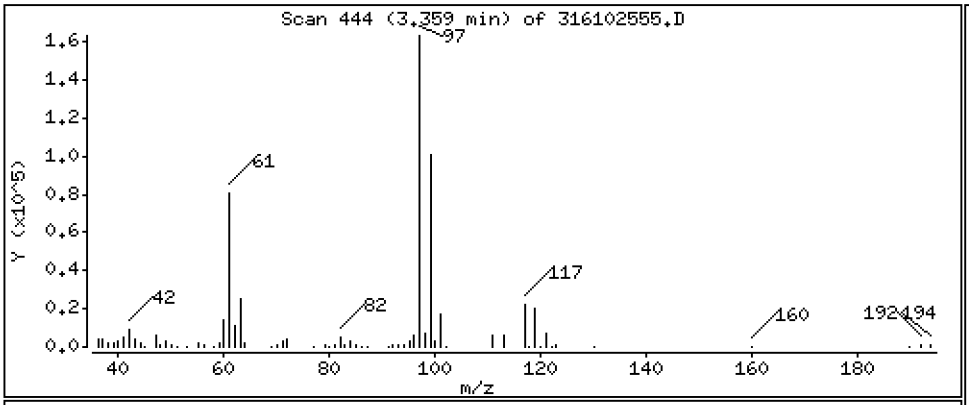
Client ID: LCS for HBN 174258 Instrument: ms03.i

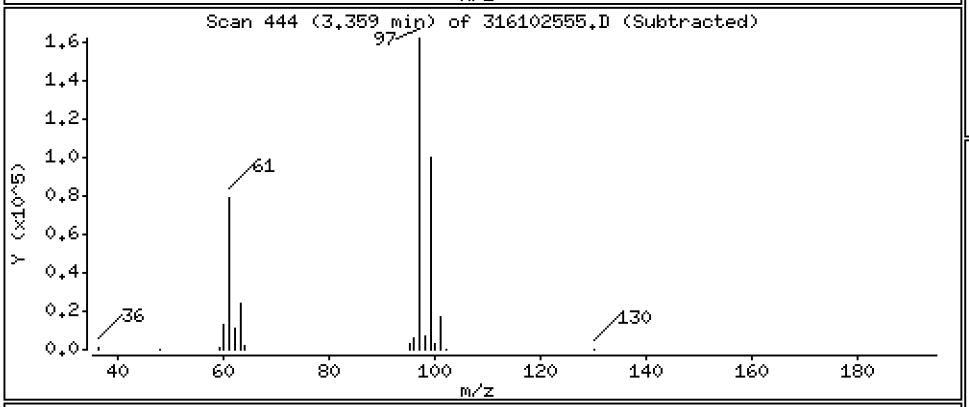
Sample Info: 2429302;;1;3;;LCS;1;

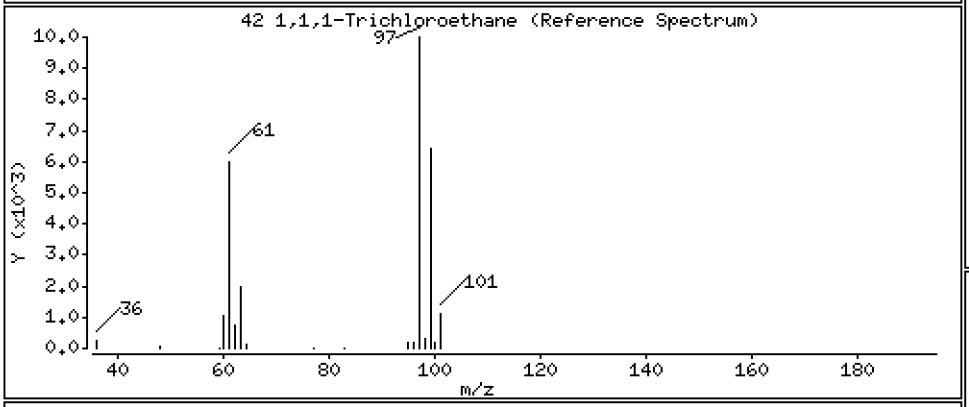
Purge Volume: 5.0 Operator: CJG

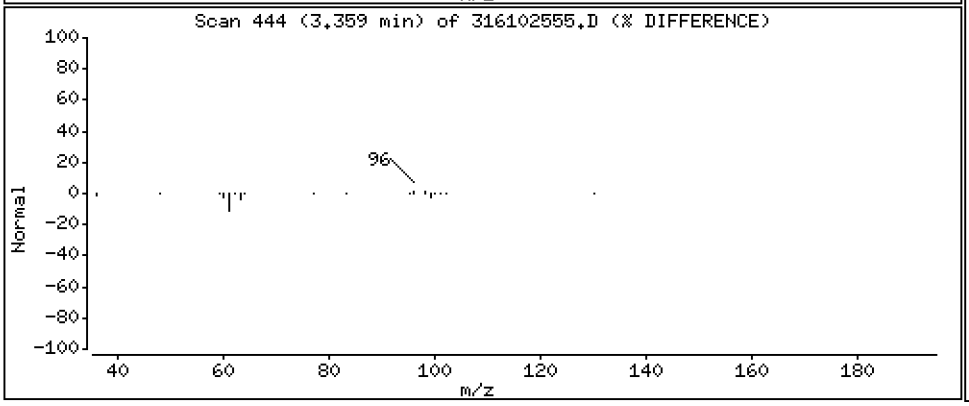
Column phase: DB-VRX Column diameter: 0.25

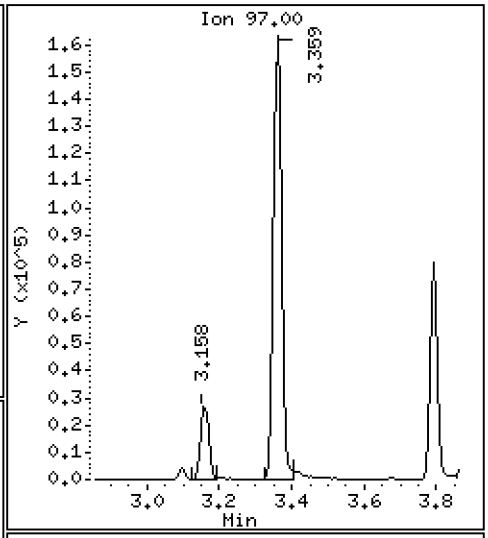
42 1,1,1-Trichloroethane Concentration: 20.1423 ug/L

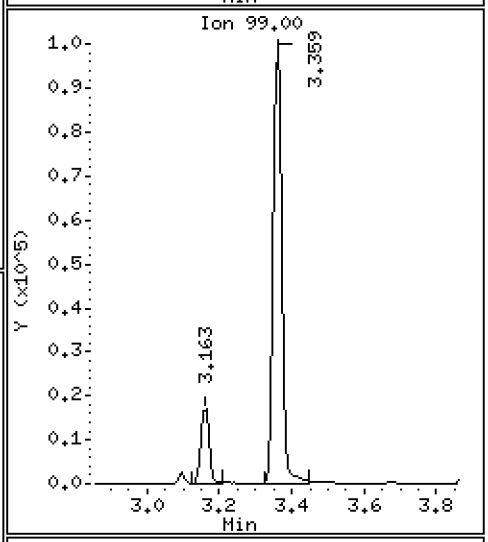


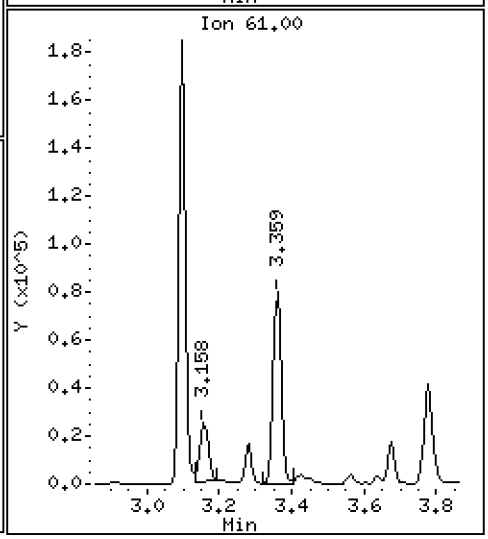












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 54

Date : 25-OCT-2016 23:28

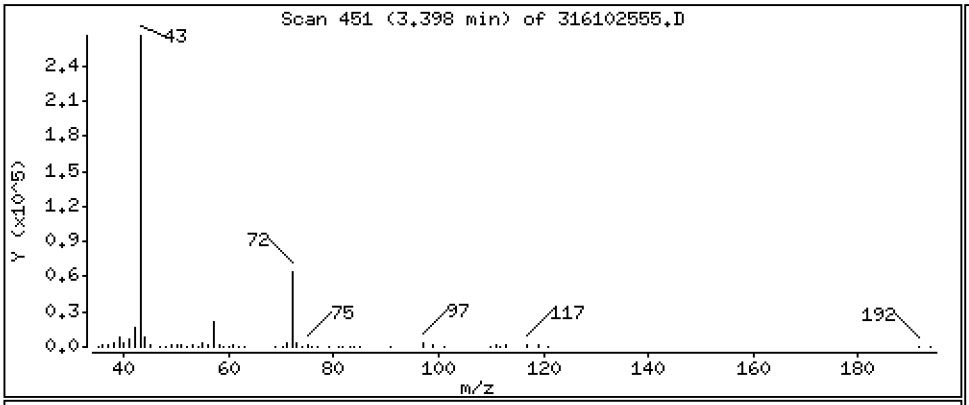
Client ID: LCS for HBN 174258 Instrument: ms03.i

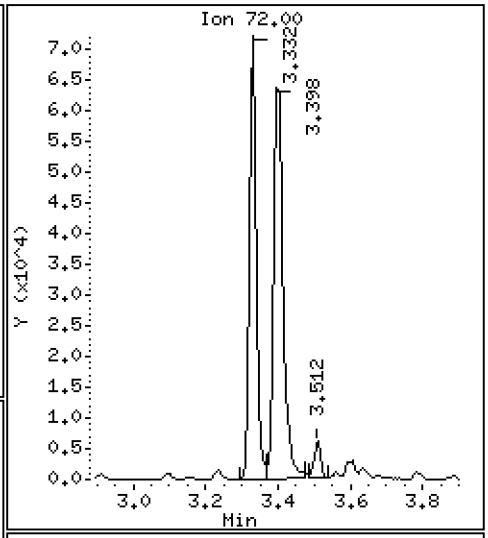
Sample Info: 2429302;;1;3;;LCS;1;

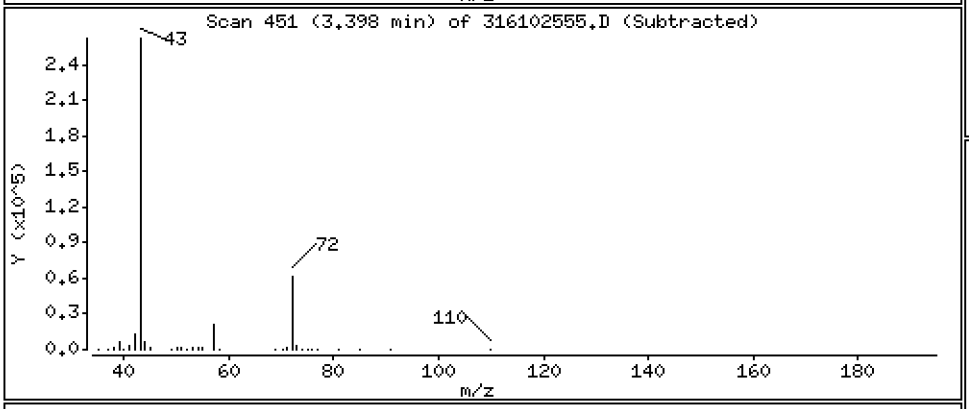
Purge Volume: 5.0 Operator: CJG

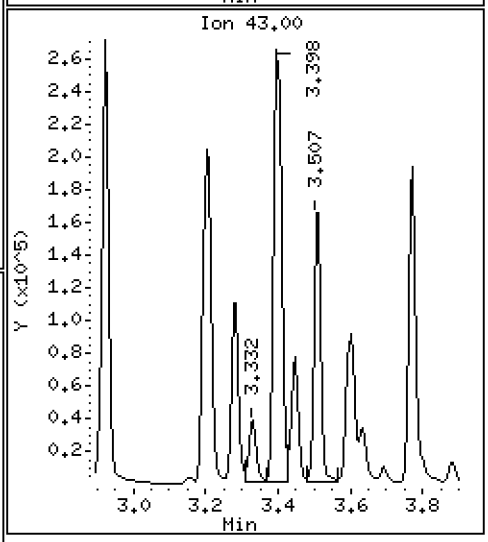
Column phase: DB-VRX Column diameter: 0.25

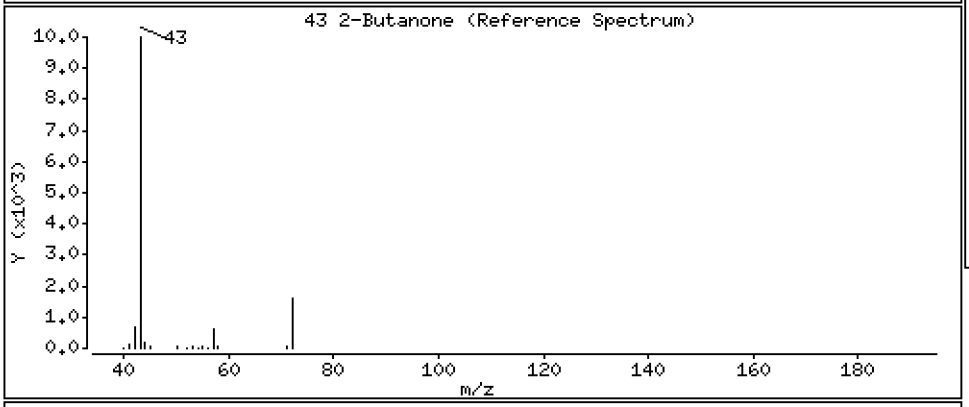
43 2-Butanone Concentration: 107.123 ug/L

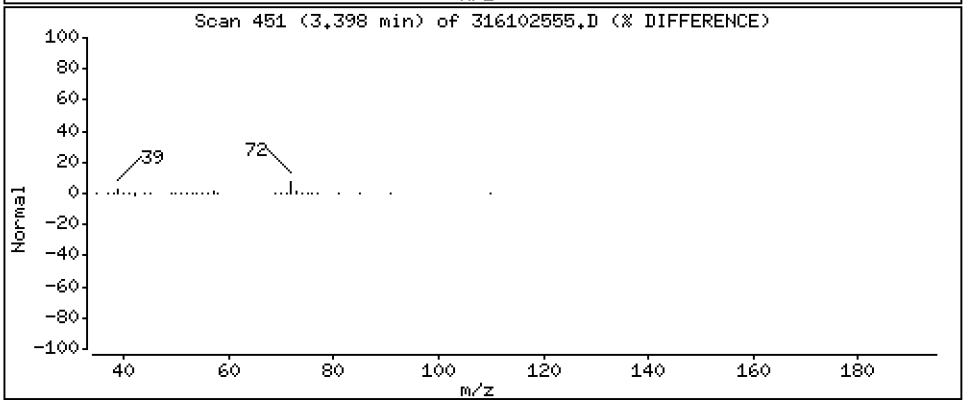












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 55

Date : 25-OCT-2016 23:28

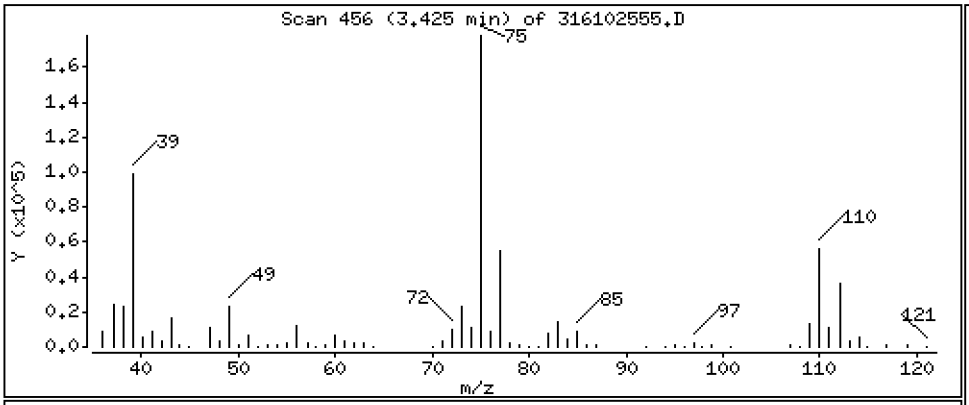
Client ID: LCS for HBN 174258 Instrument: ms03.i

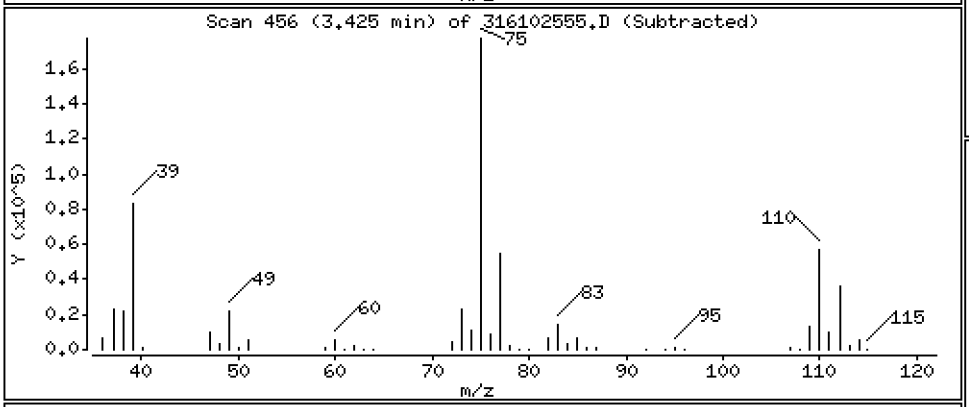
Sample Info: 2429302;;1;3;;LCS;1;

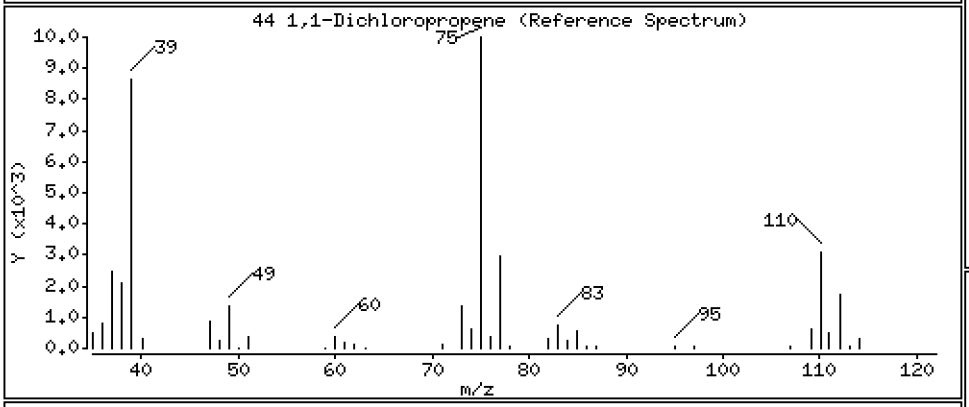
Purge Volume: 5.0 Operator: CJG

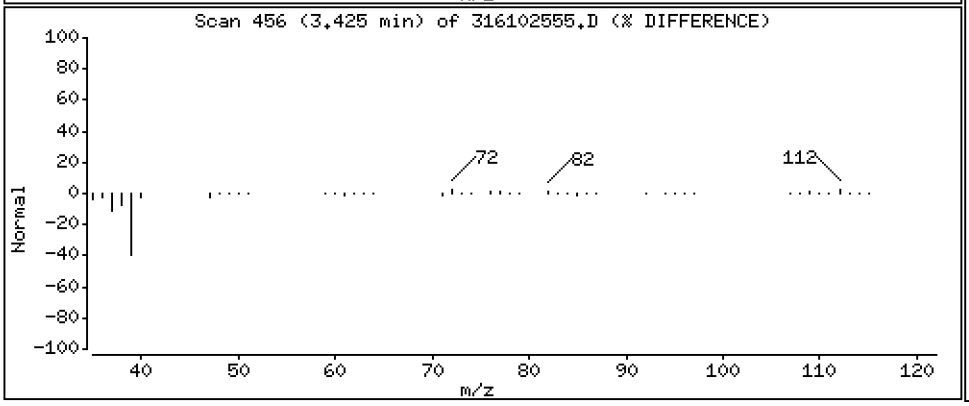
Column phase: DB-VRX Column diameter: 0.25

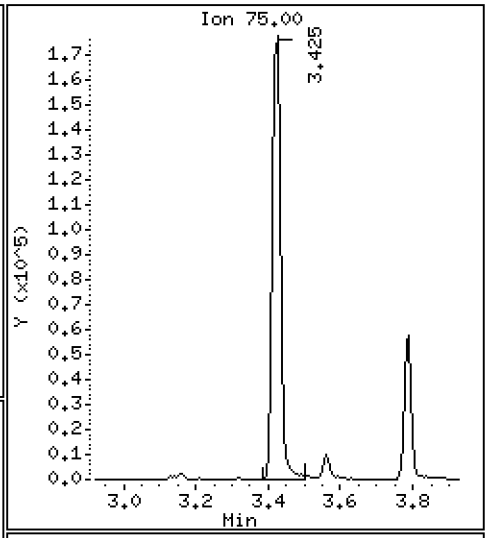
44 1,1-Dichloropropene Concentration: 20.7097 ug/L

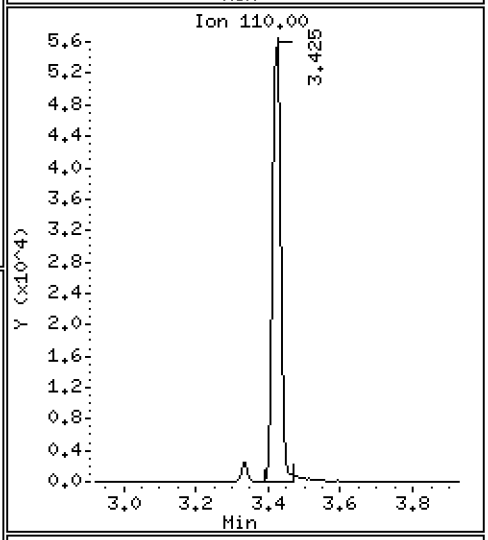


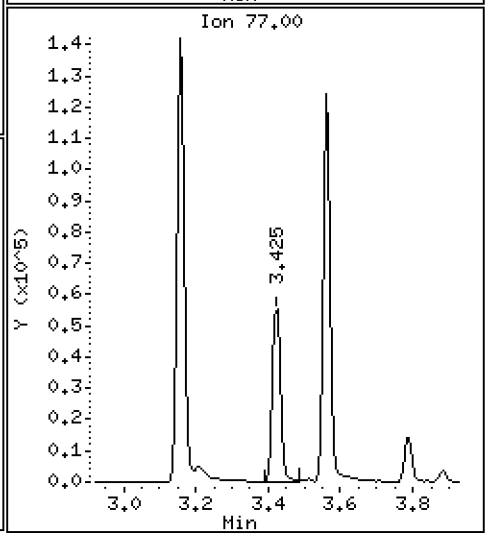












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 56

Date : 25-OCT-2016 23:28

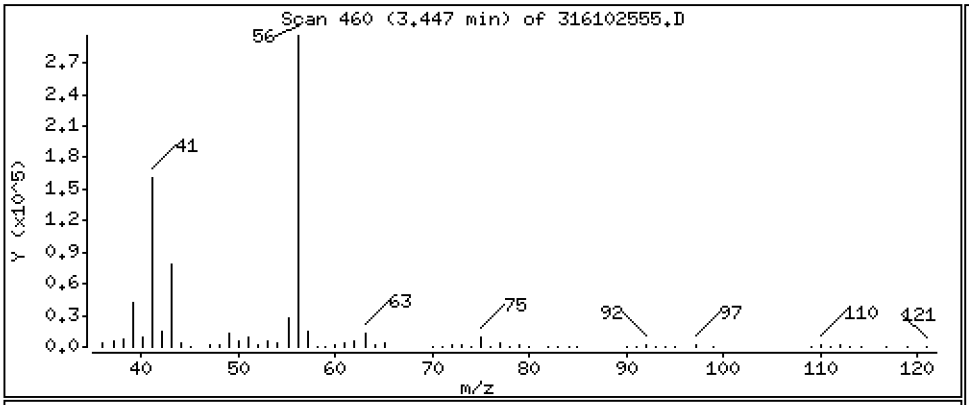
Client ID: LCS for HBN 174258 Instrument: ms03.i

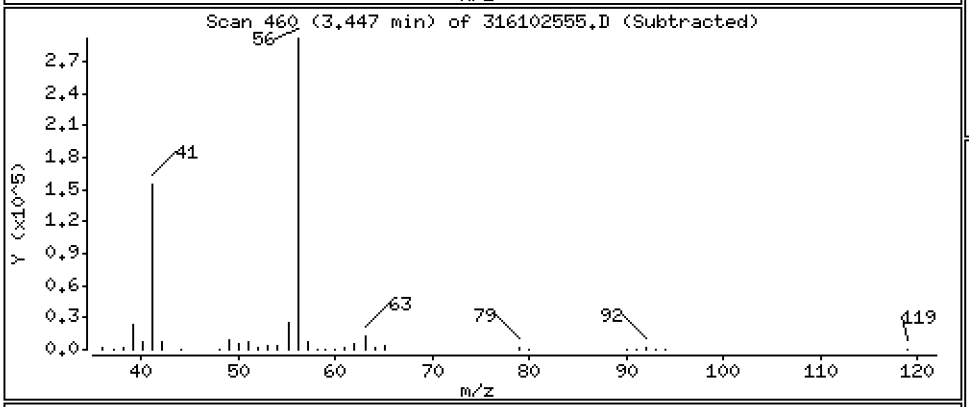
Sample Info: 2429302;;1;3;;LCS;1;

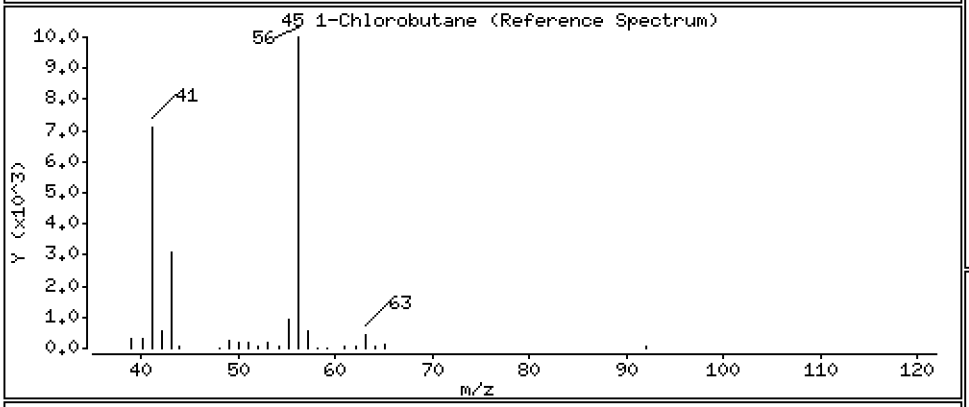
Purge Volume: 5.0 Operator: CJG

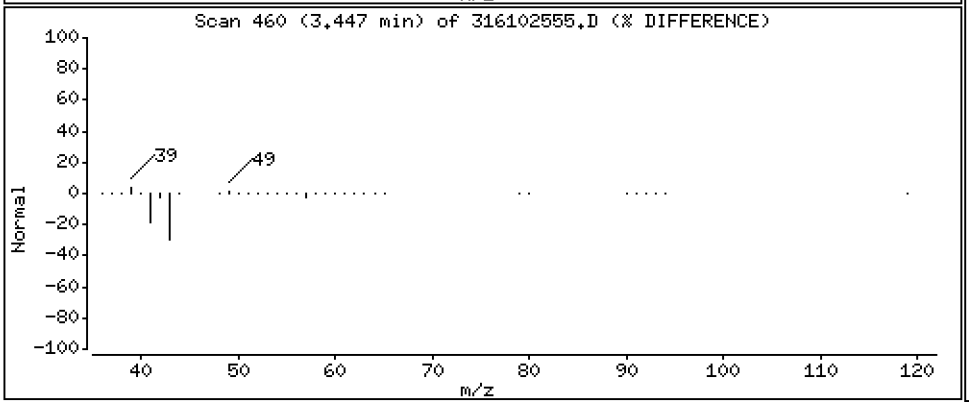
Column phase: DB-VRX Column diameter: 0.25

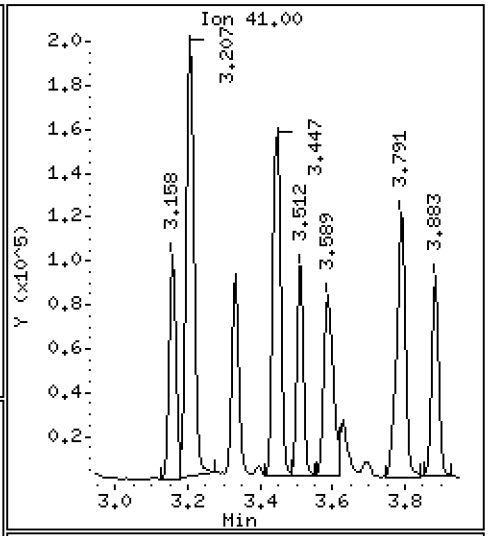
45 1-Chlorobutane Concentration: 23.6132 ug/L

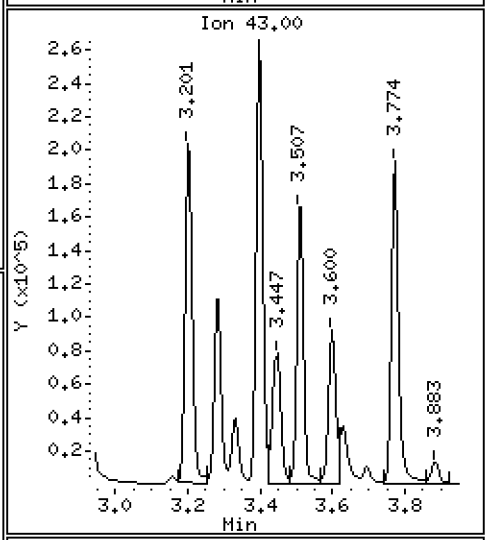


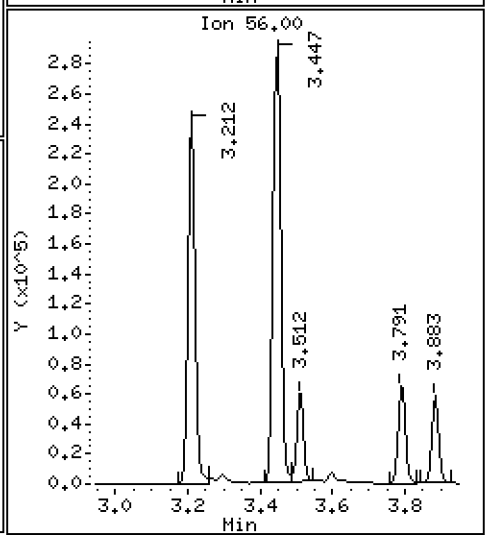












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 57

Date : 25-OCT-2016 23:28

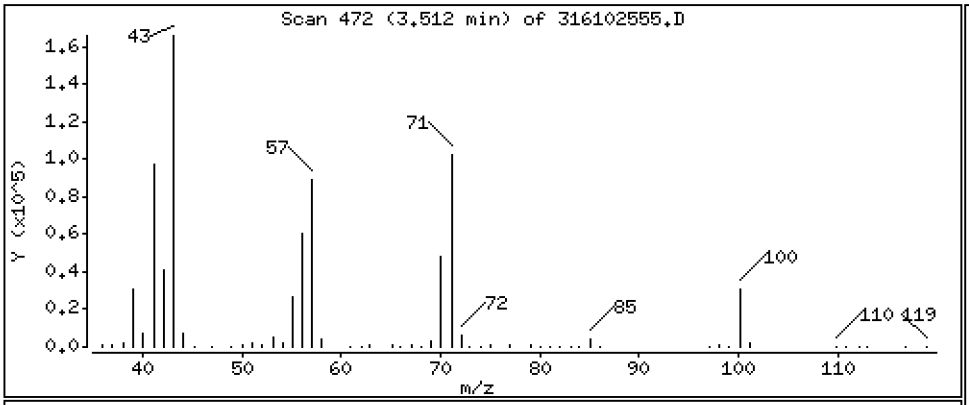
Client ID: LCS for HBN 174258 Instrument: ms03.i

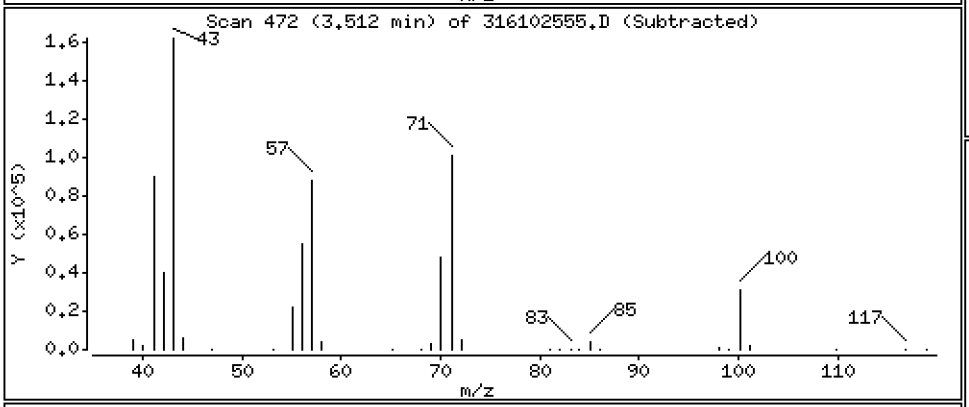
Sample Info: 2429302;;1;3;;LCS;1;

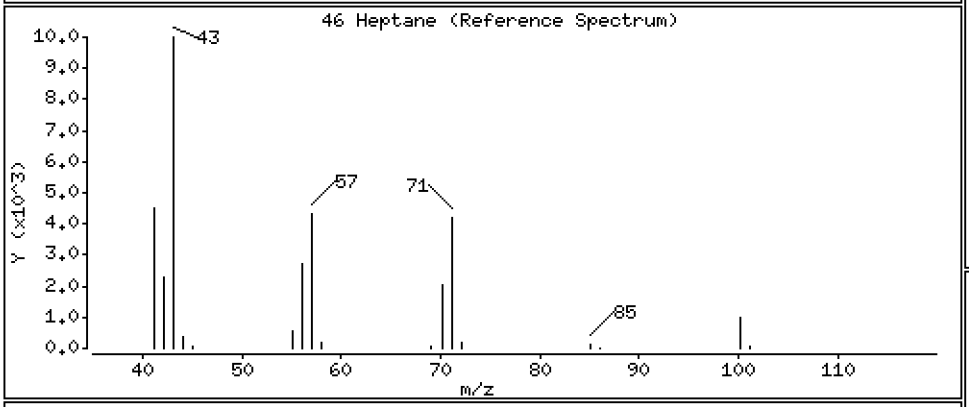
Purge Volume: 5.0 Operator: CJG

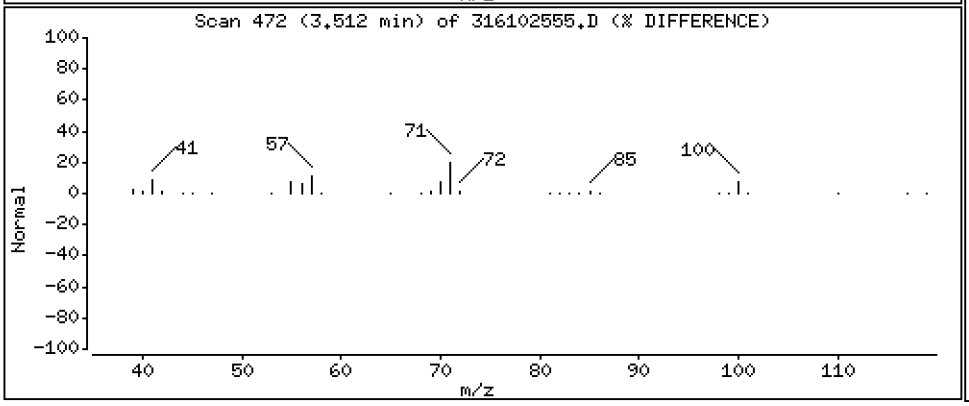
Column phase: DB-VRX Column diameter: 0.25

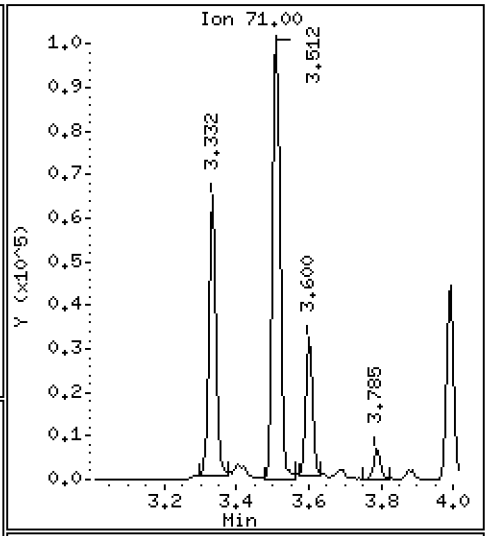
46 Heptane Concentration: 23.6940 ug/L

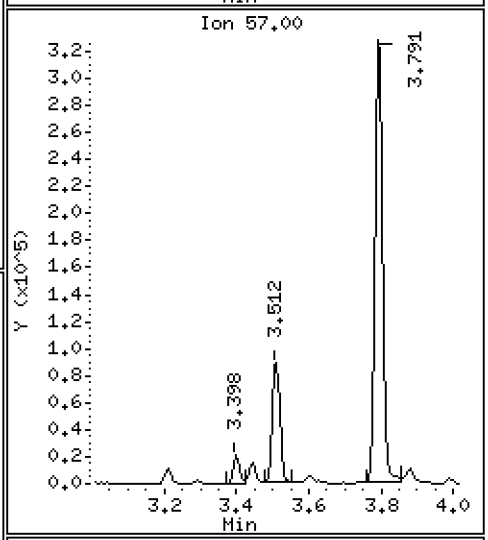


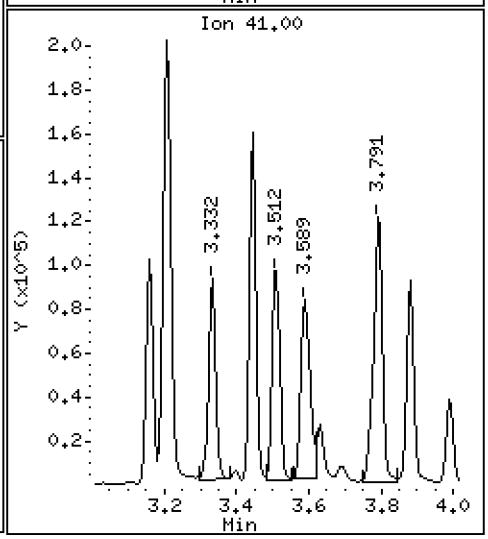












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 58

Date : 25-OCT-2016 23:28

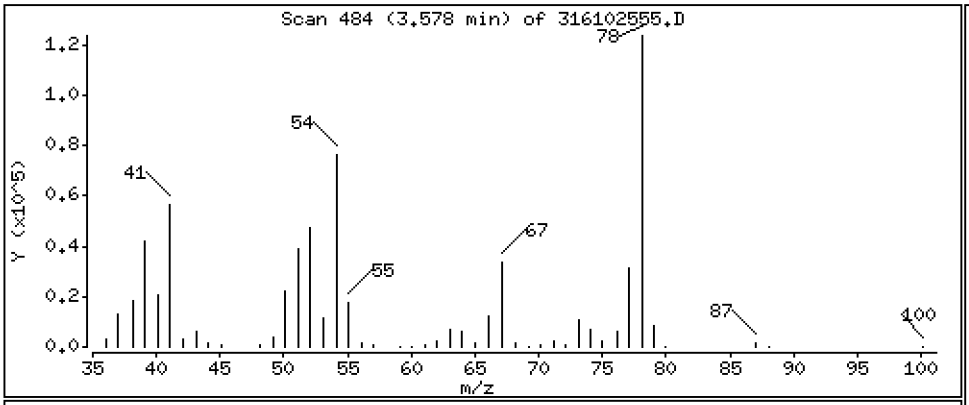
Client ID: LCS for HBN 174258 Instrument: ms03.i

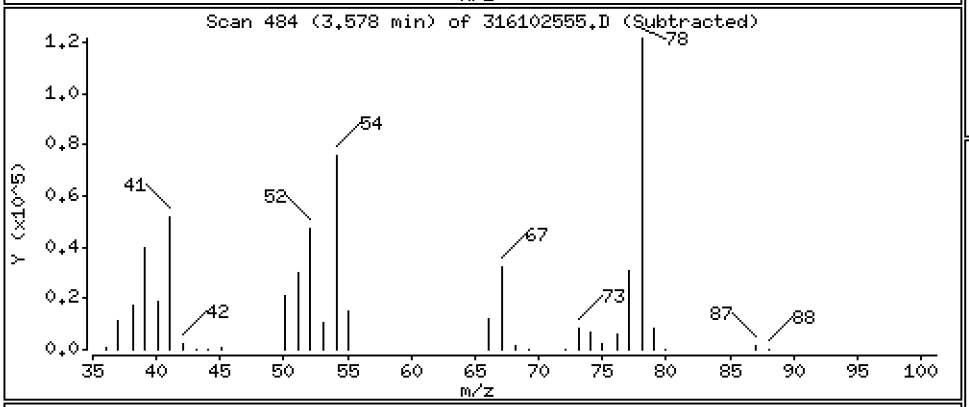
Sample Info: 2429302;;1;3;;LCS;1;

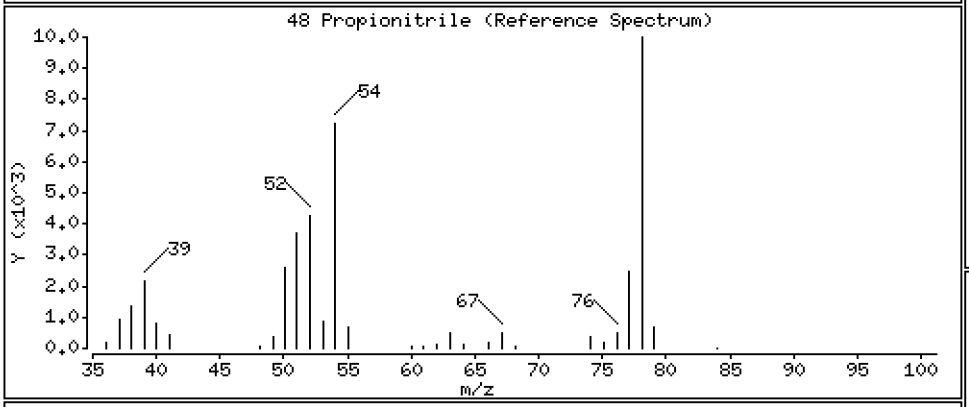
Purge Volume: 5.0 Operator: CJG

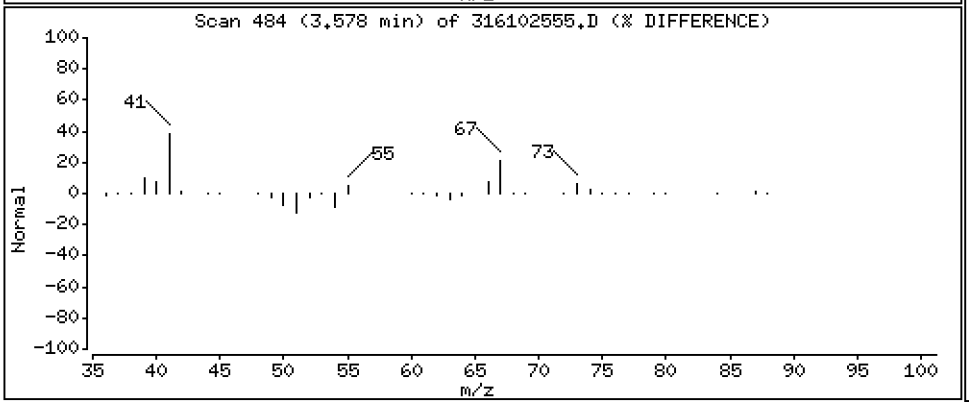
Column phase: DB-VRX Column diameter: 0.25

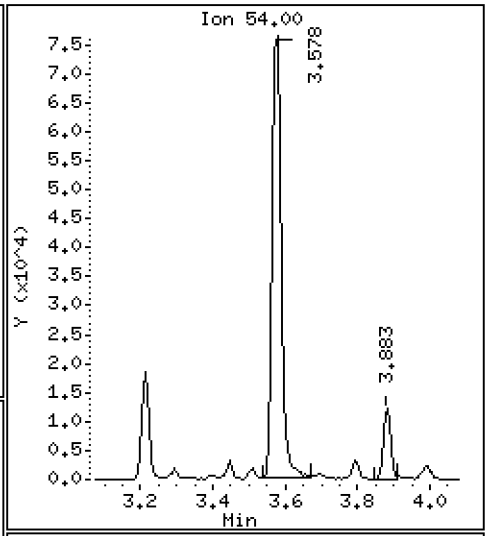
48 Propionitrile Concentration: 108.028 ug/L

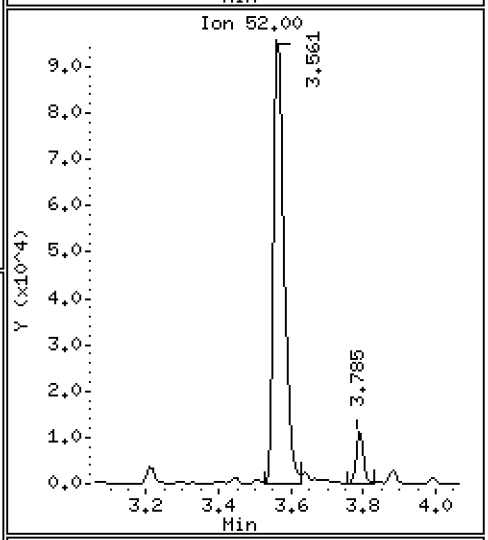


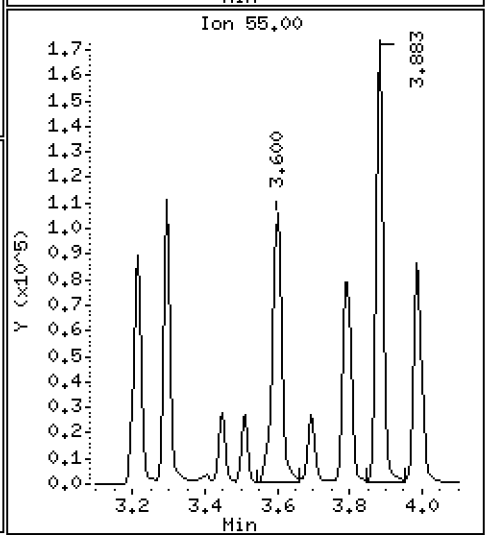












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 59

Date : 25-OCT-2016 23:28

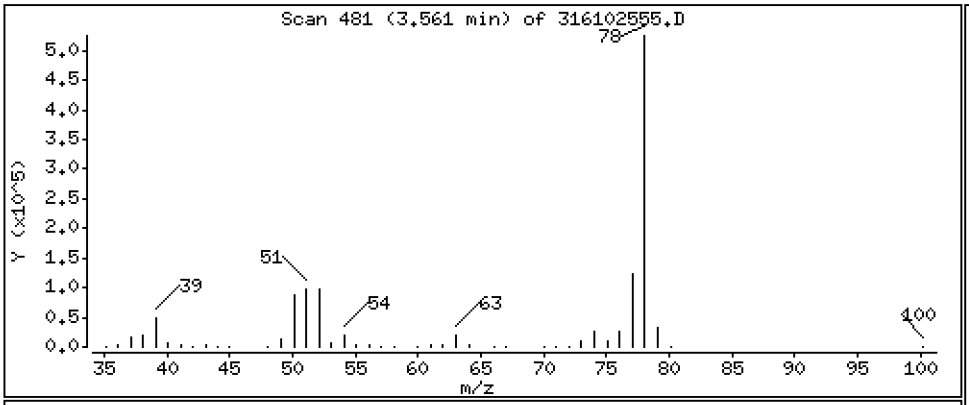
Client ID: LCS for HBN 174258 Instrument: ms03.i

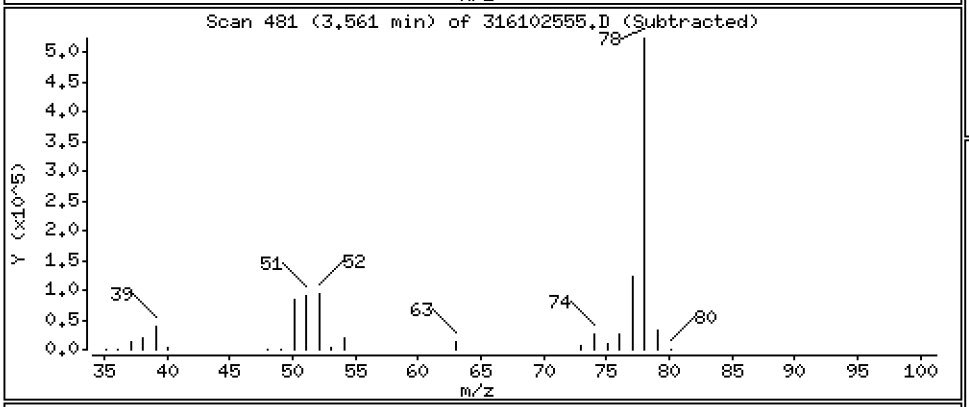
Sample Info: 2429302;;1;3;;LCS;1;

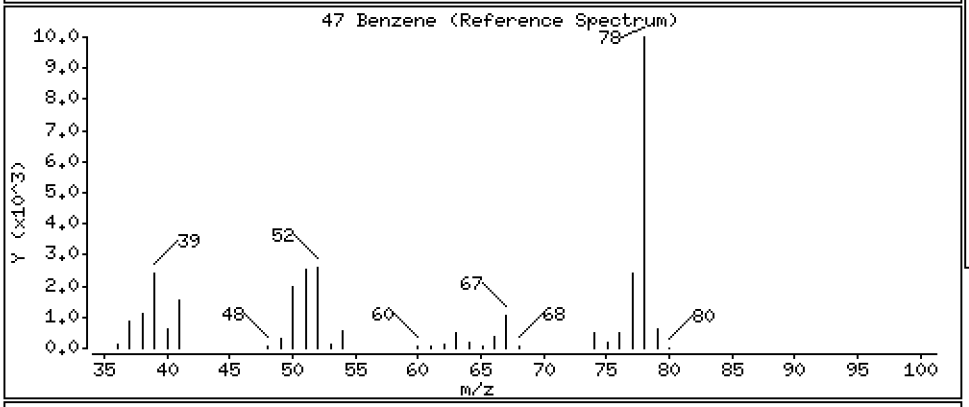
Purge Volume: 5.0 Operator: CJG

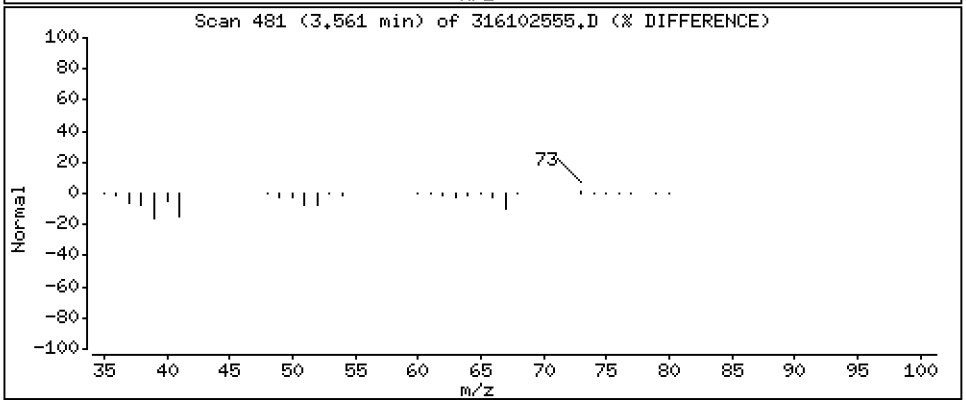
Column phase: DB-VRX Column diameter: 0.25

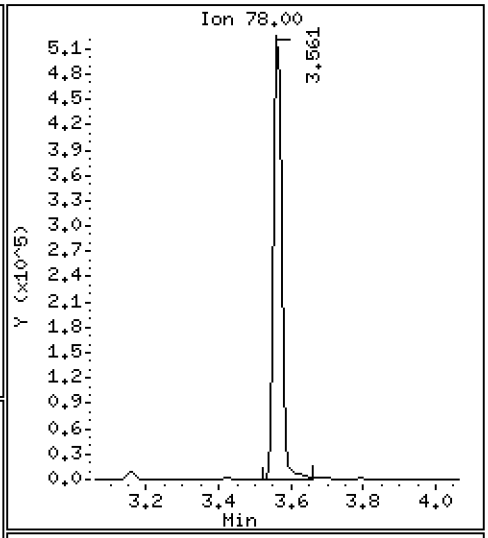
47 Benzene Concentration: 19.5082 ug/L

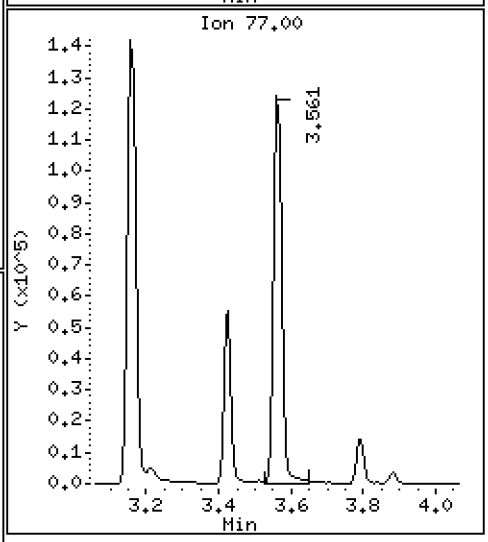












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 60

Date : 25-OCT-2016 23:28

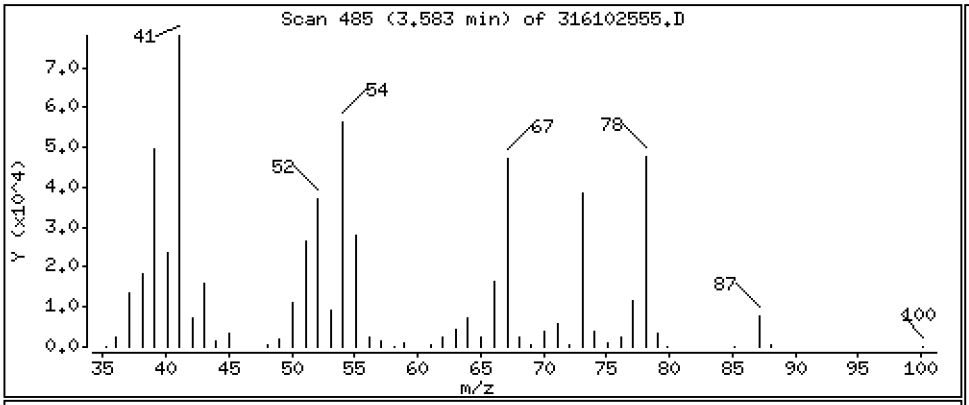
Client ID: LCS for HBN 174258 Instrument: ms03.i

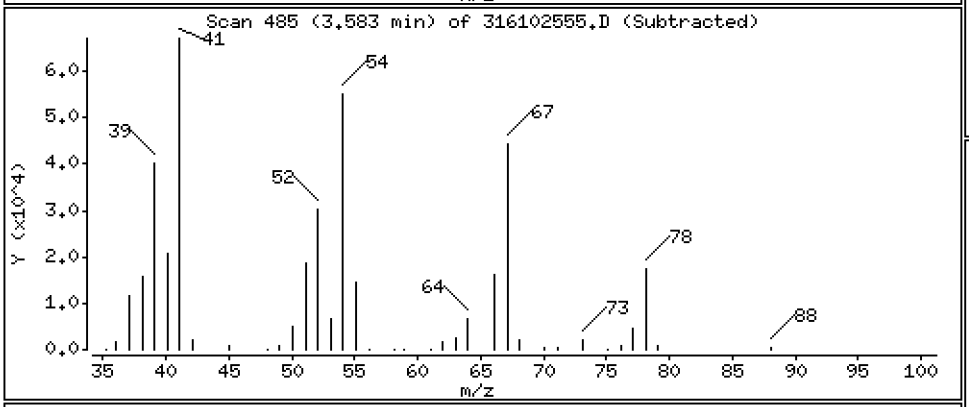
Sample Info: 2429302;;1;3;;LCS;1;

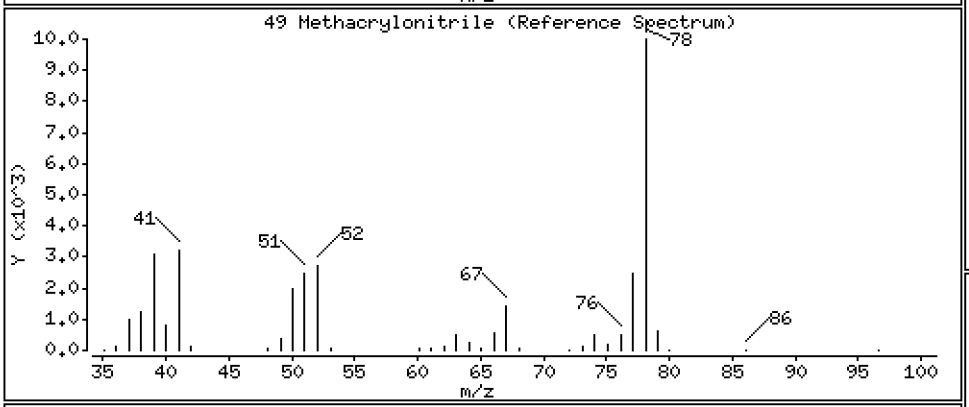
Purge Volume: 5.0 Operator: CJG

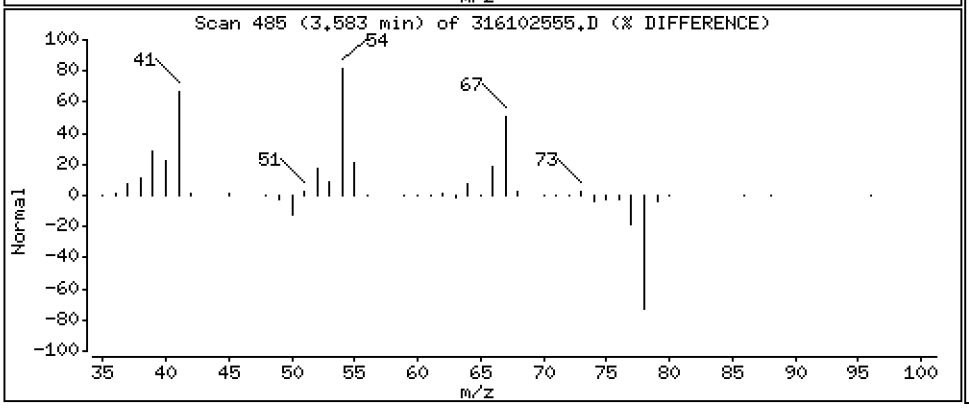
Column phase: DB-VRX Column diameter: 0.25

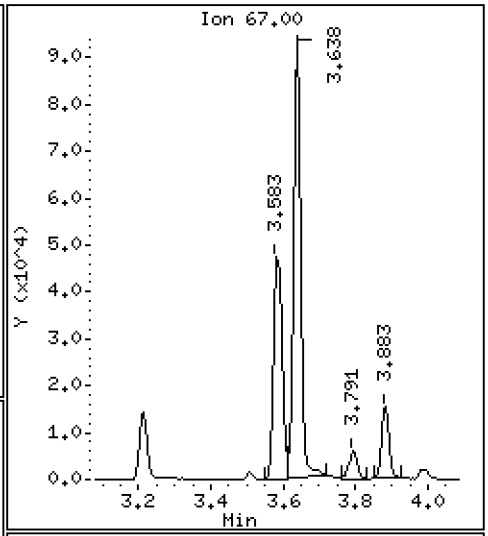
49 Methacrylonitrile Concentration: 20.2934 ug/L

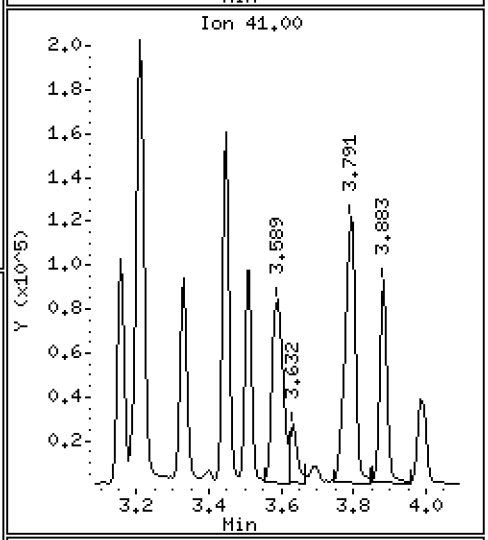


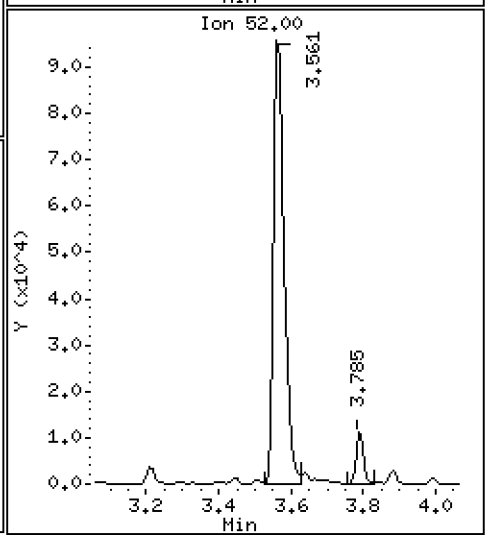












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 61

Date : 25-OCT-2016 23:28

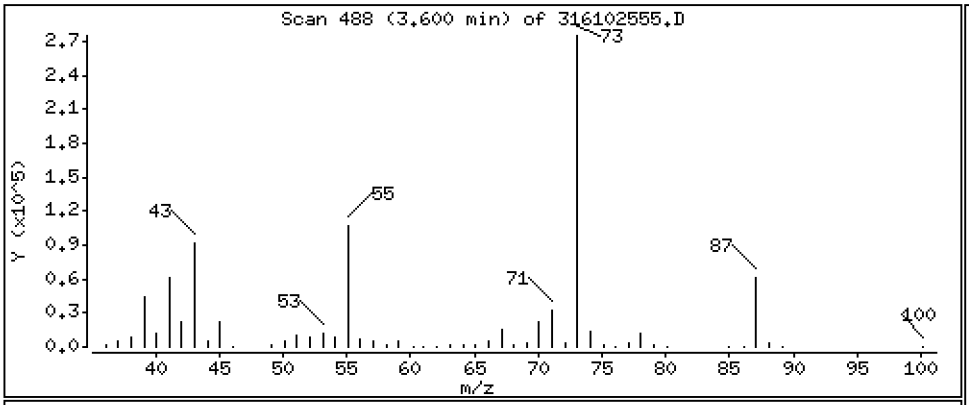
Client ID: LCS for HBN 174258 Instrument: ms03.i

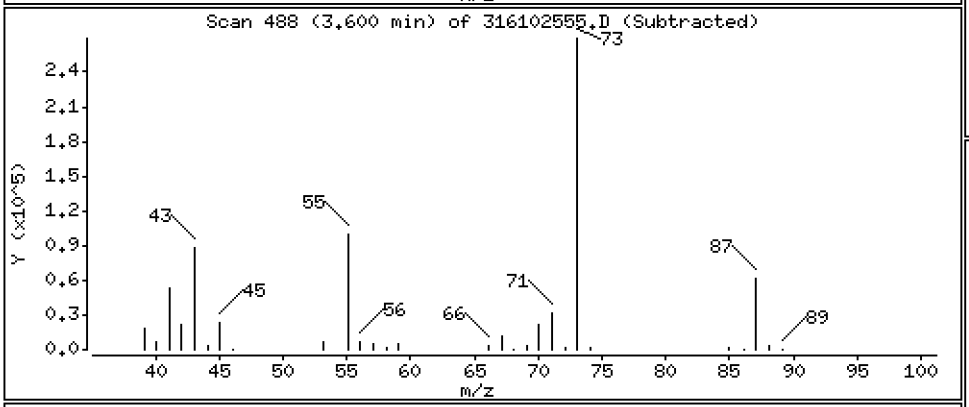
Sample Info: 2429302;;1;3;;LCS;1;

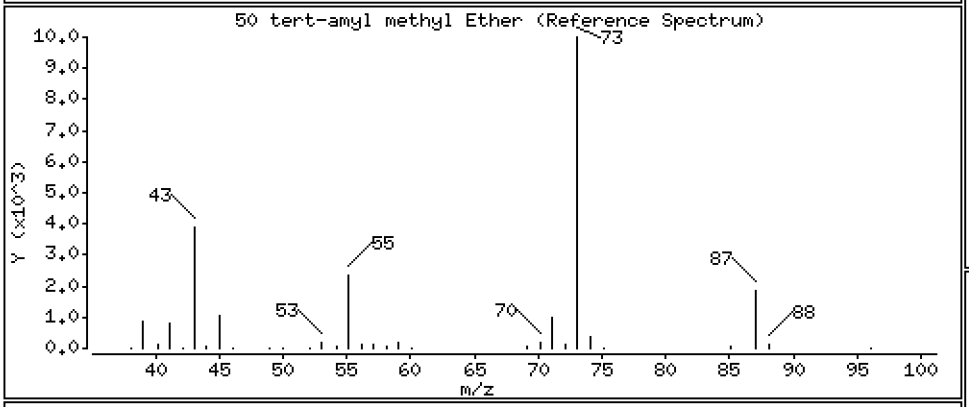
Purge Volume: 5.0 Operator: CJG

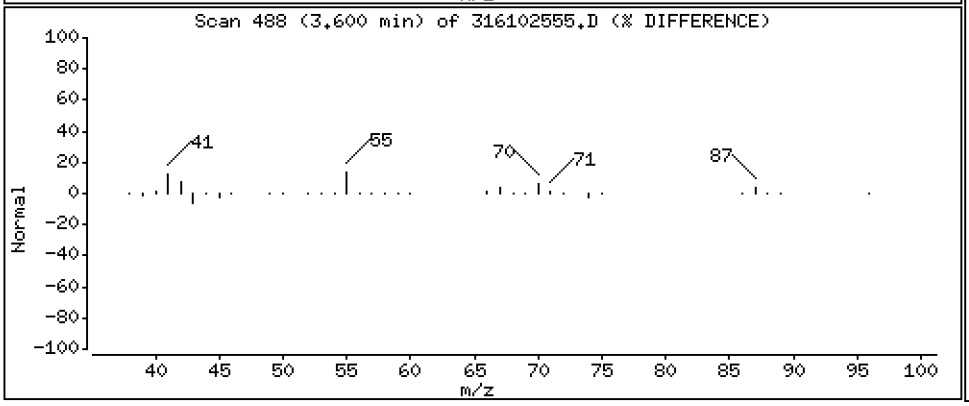
Column phase: DB-VRX Column diameter: 0.25

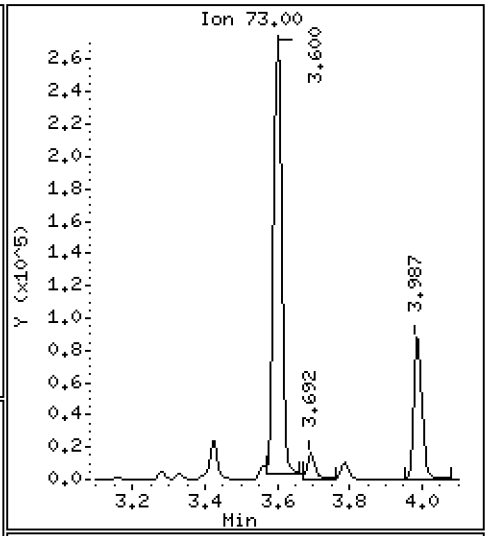
50 tert-amyl methyl Ether Concentration: 19.5002 ug/L

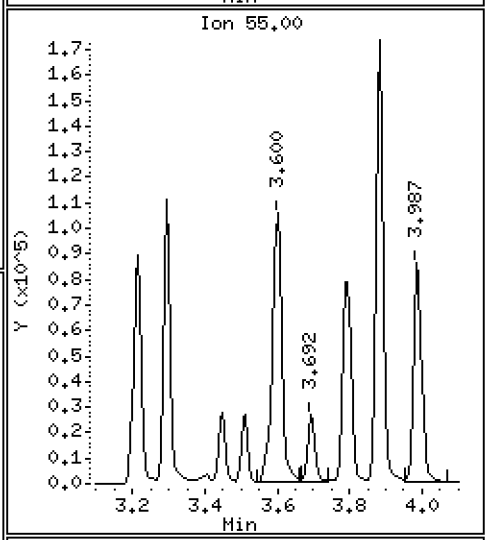


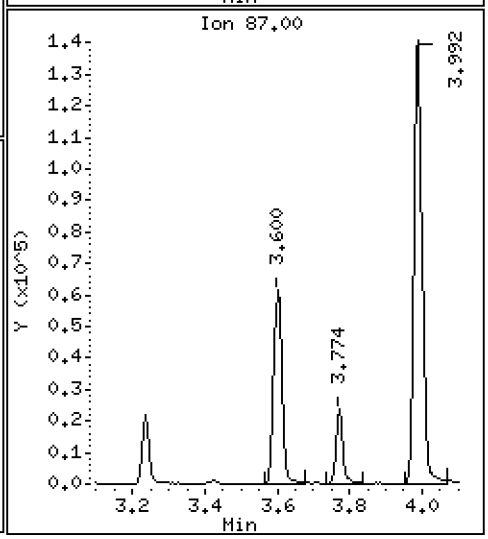












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 62

Date : 25-OCT-2016 23:28

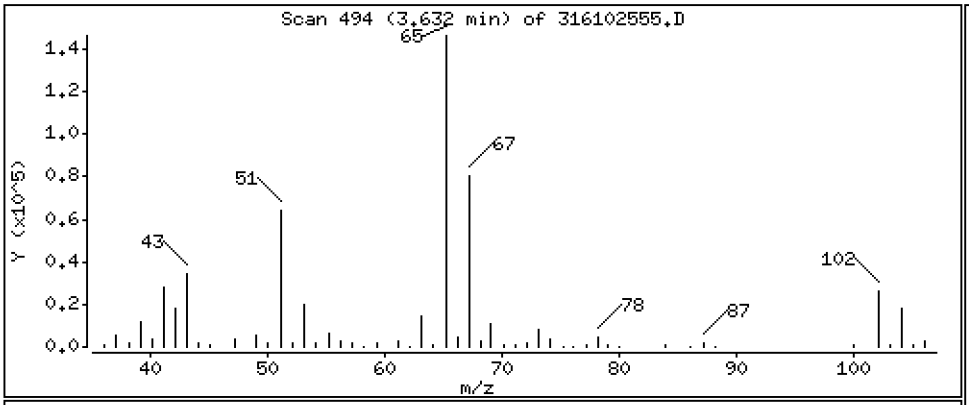
Client ID: LCS for HBN 174258 Instrument: ms03.i

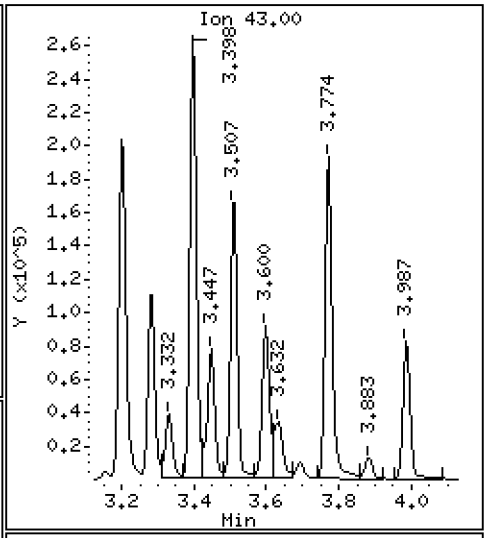
Sample Info: 2429302;;1;3;;LCS;1;

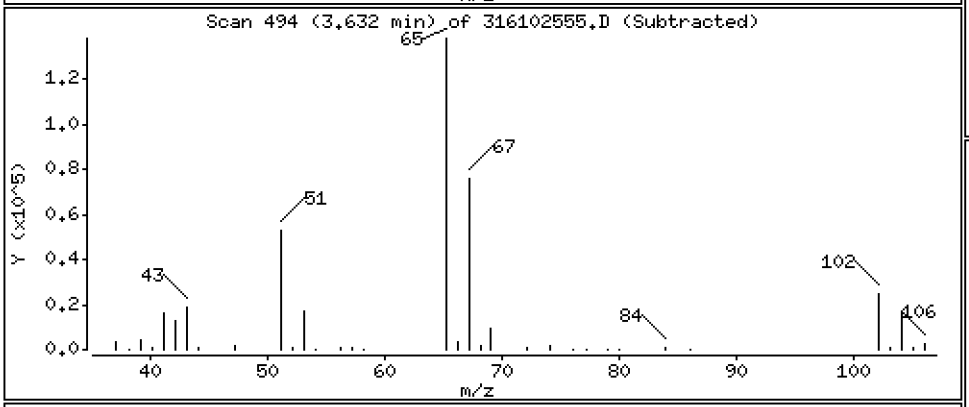
Purge Volume: 5.0 Operator: CJG

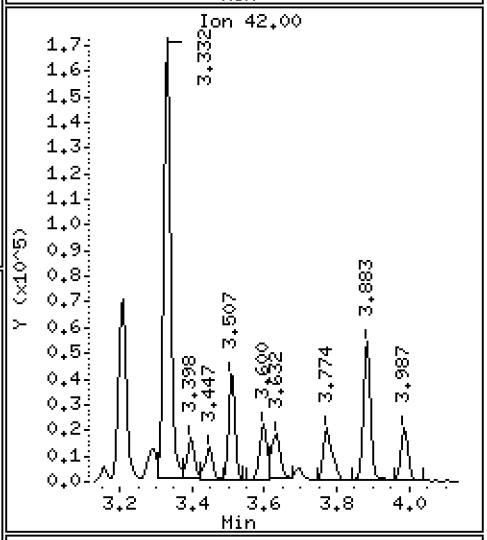
Column phase: DB-VRX Column diameter: 0.25

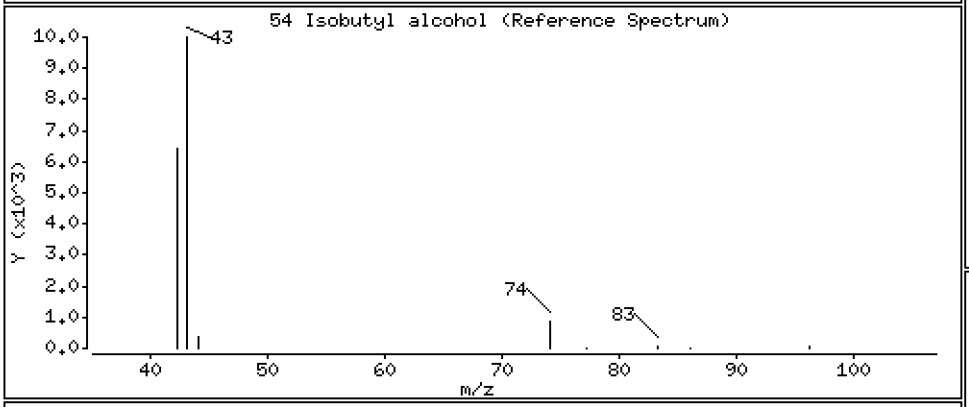
54 Isobutyl alcohol Concentration: 304.844 ug/L

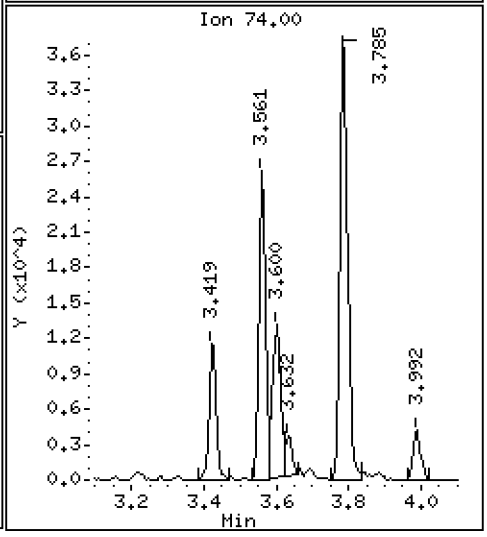


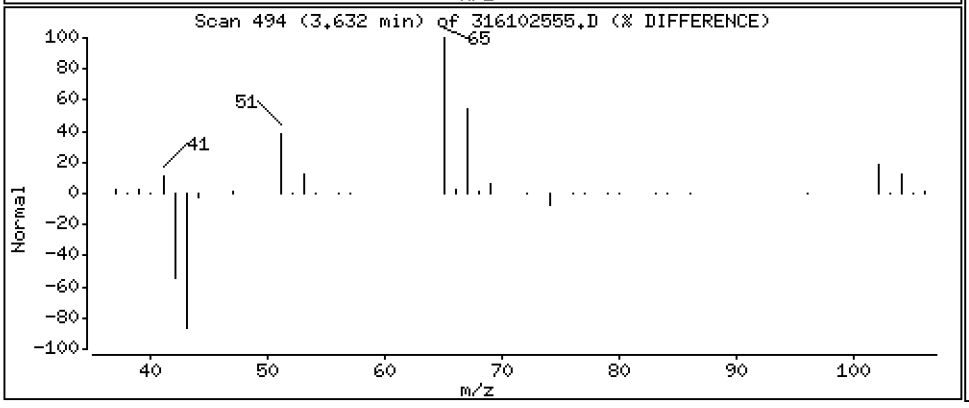












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 63

Date : 25-OCT-2016 23:28

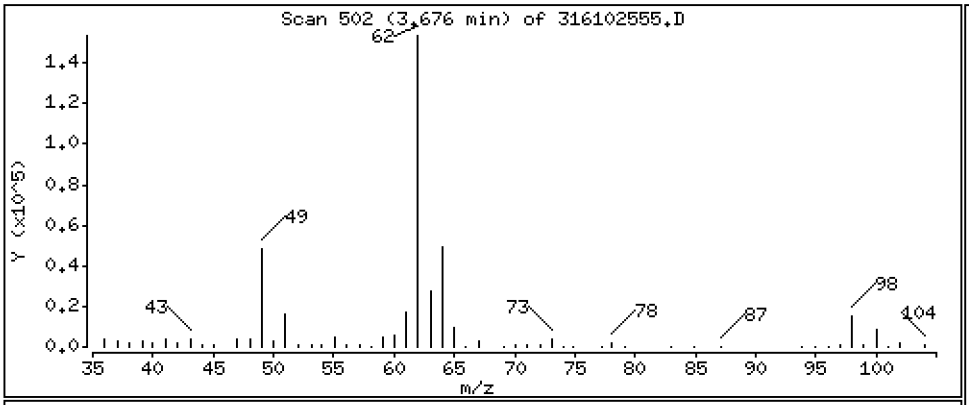
Client ID: LCS for HBN 174258 Instrument: ms03.i

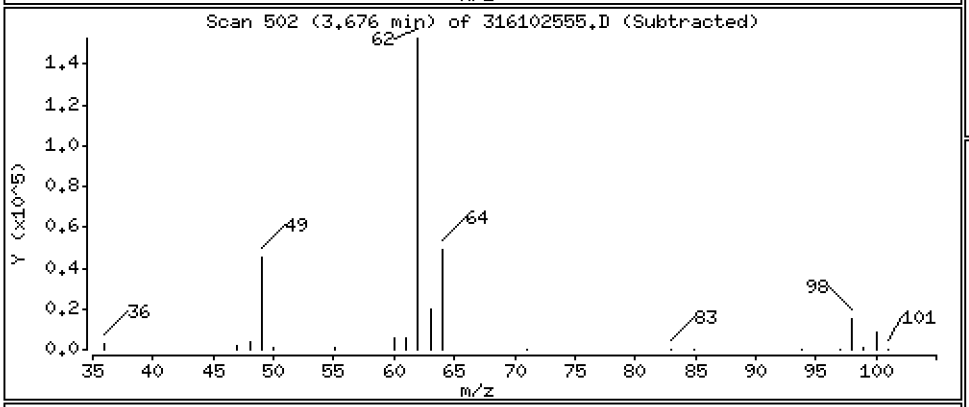
Sample Info: 2429302;;1;3;;LCS;1;

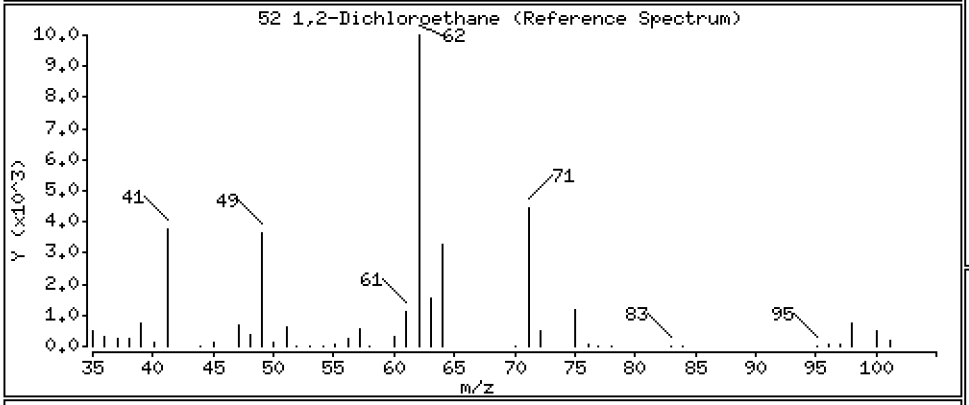
Purge Volume: 5.0 Operator: CJG

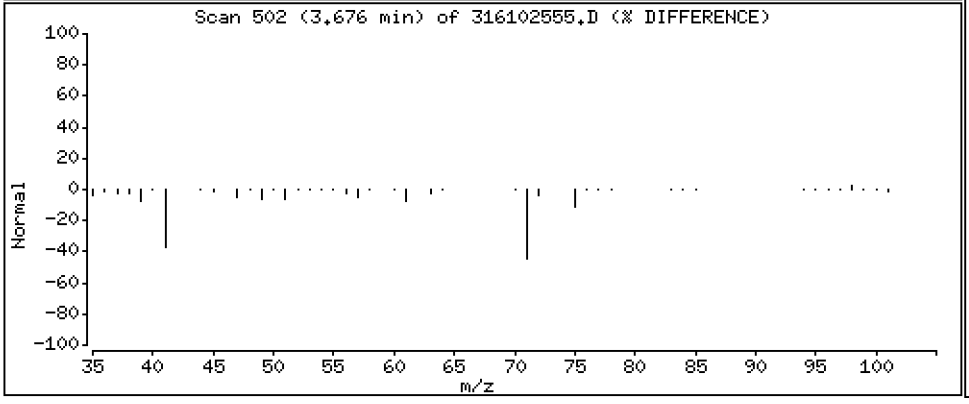
Column phase: DB-VRX Column diameter: 0.25

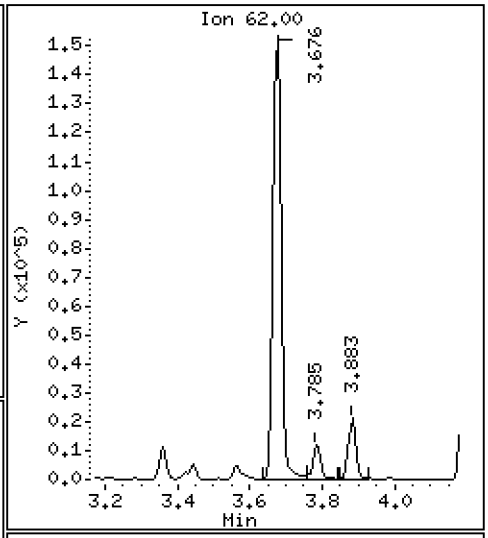
52 1,2-Dichloroethane Concentration: 19.5253 ug/L

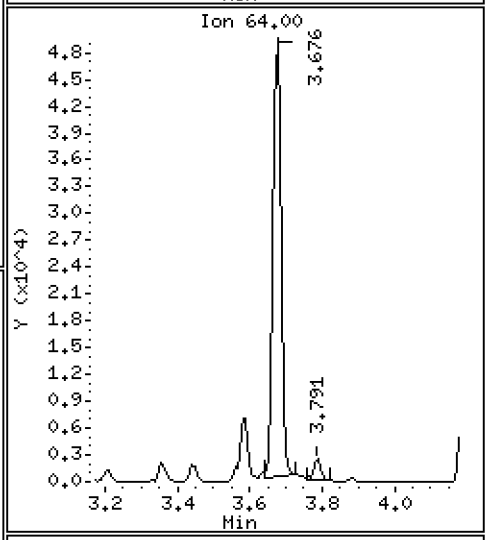


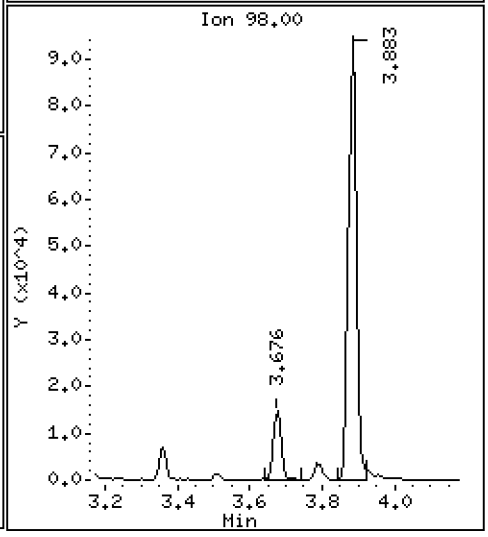












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 64

Date : 25-OCT-2016 23:28

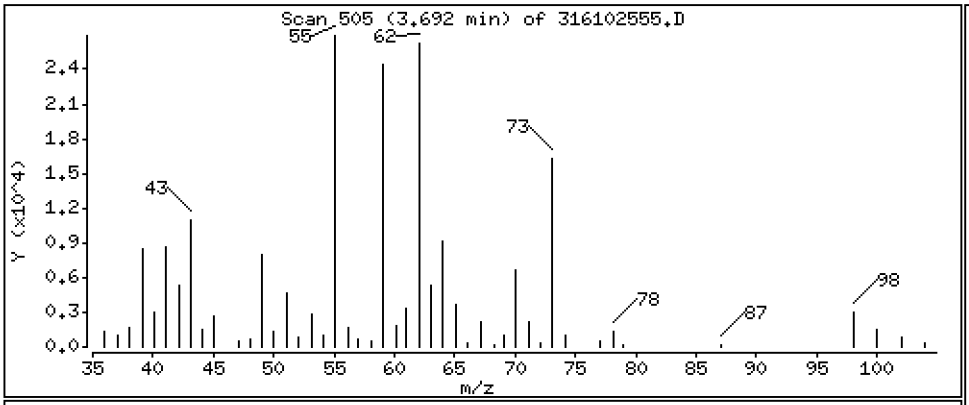
Client ID: LCS for HBN 174258 Instrument: ms03.i

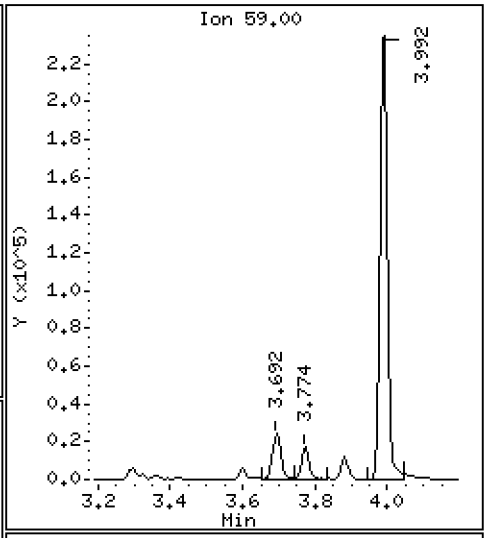
Sample Info: 2429302;;1;3;;LCS;1;

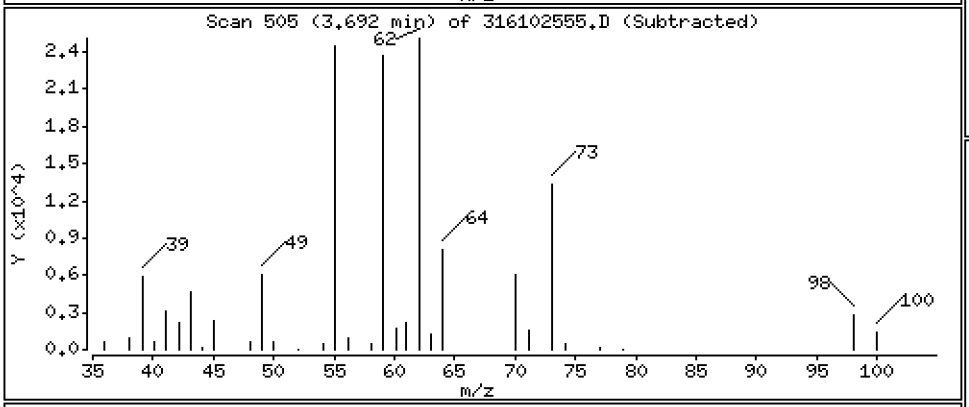
Purge Volume: 5.0 Operator: CJG

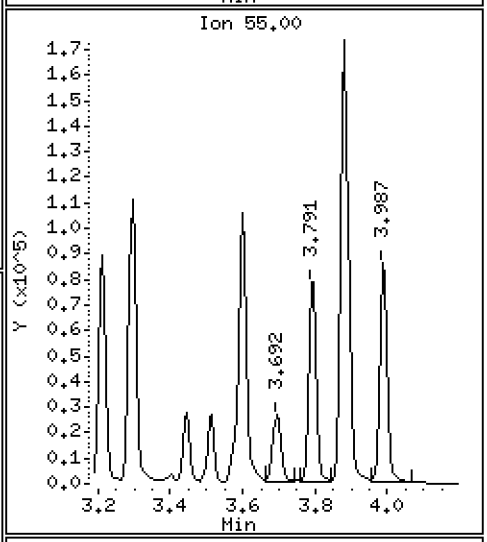
Column phase: DB-VRX Column diameter: 0.25

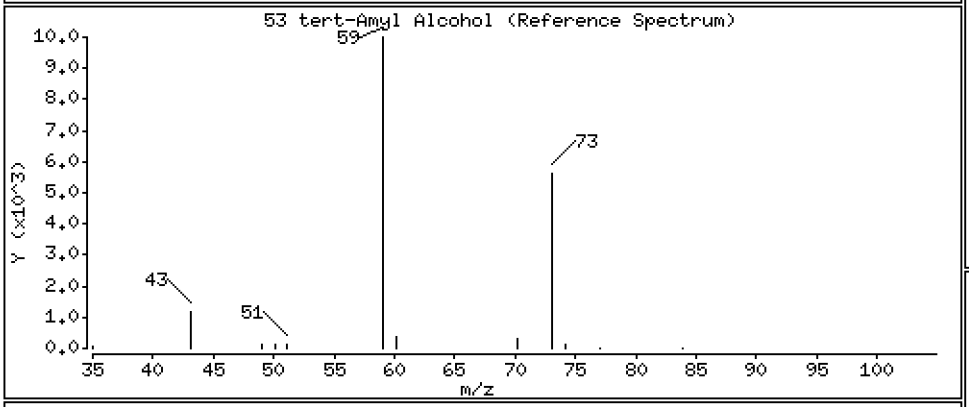
53 tert-Amyl Alcohol Concentration: 98.4071 ug/L

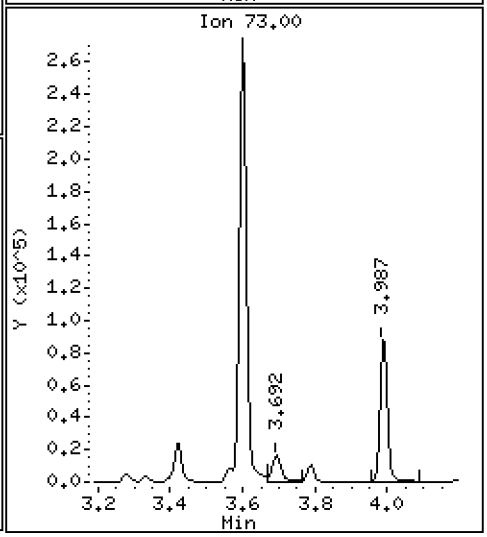


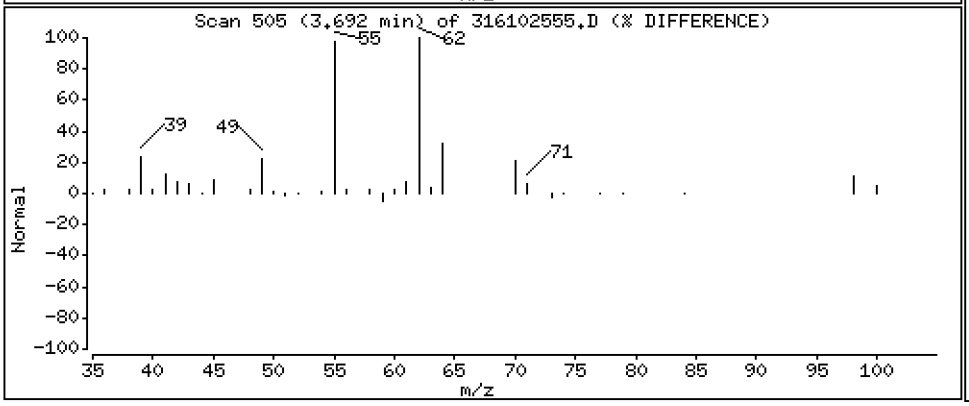












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 65

Date : 25-OCT-2016 23:28

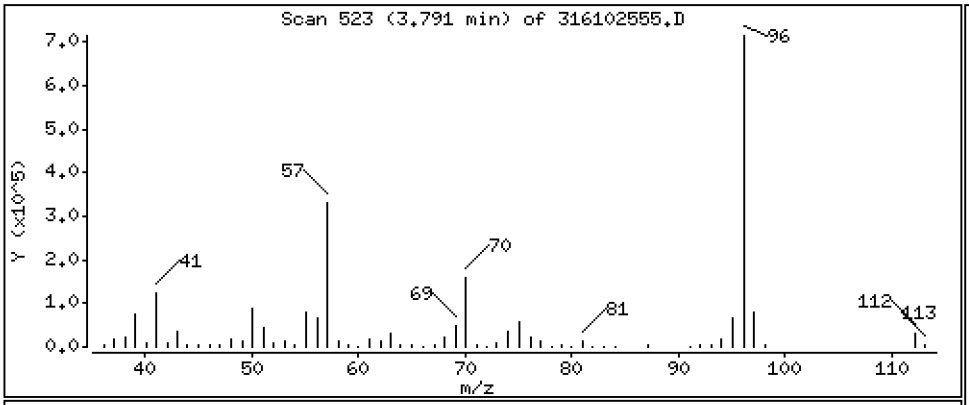
Client ID: LCS for HBN 174258 Instrument: ms03.i

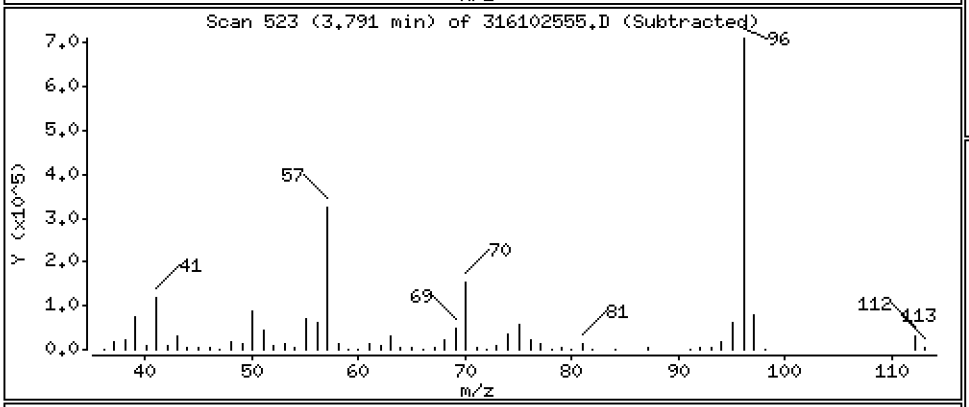
Sample Info: 2429302;;1;3;;LCS;1;

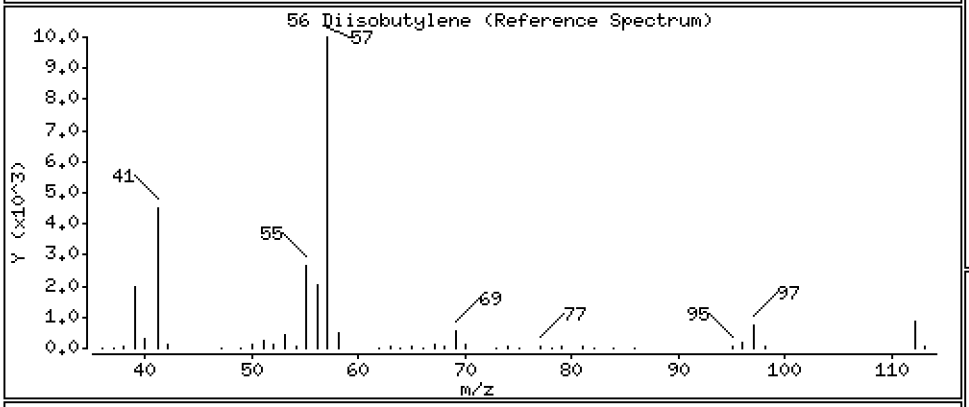
Purge Volume: 5.0 Operator: CJG

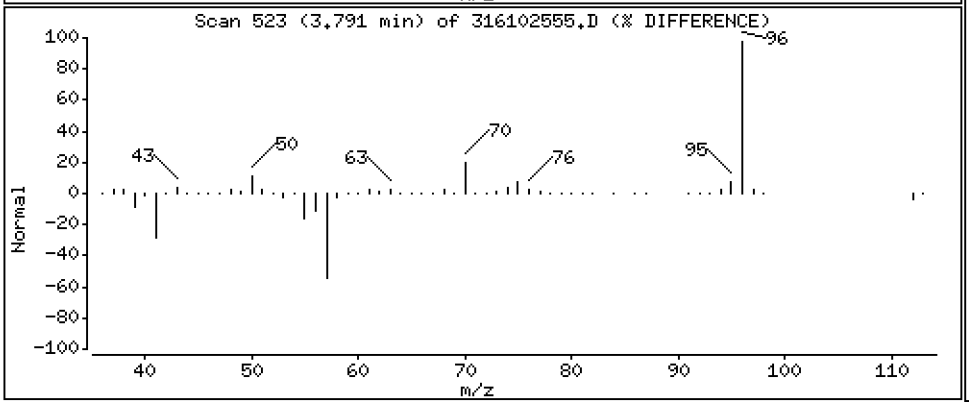
Column phase: DB-VRX Column diameter: 0.25

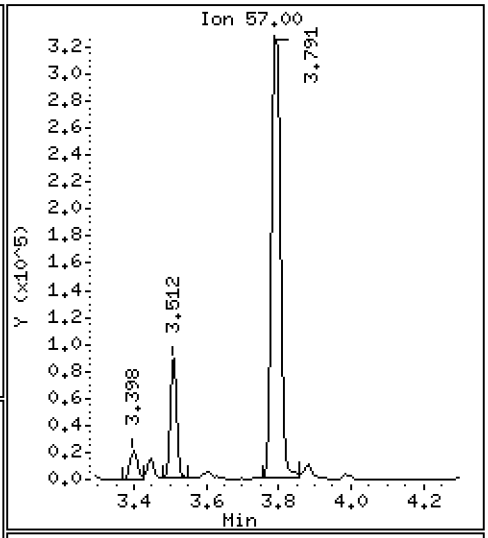
56 Diisobutylene Concentration: 23.7069 ug/L

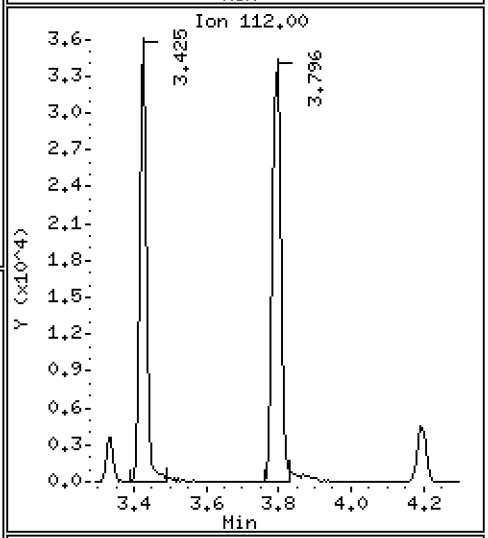


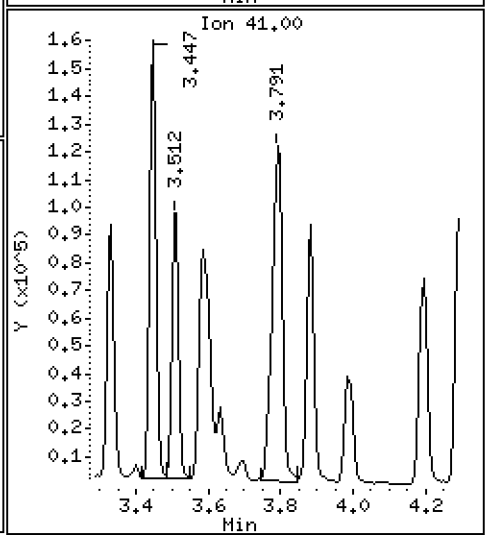












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 66

Date : 25-OCT-2016 23:28

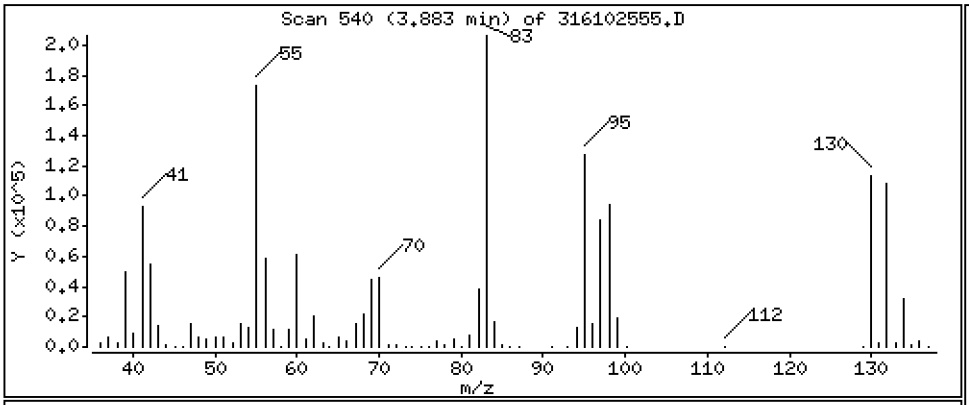
Client ID: LCS for HBN 174258 Instrument: ms03.i

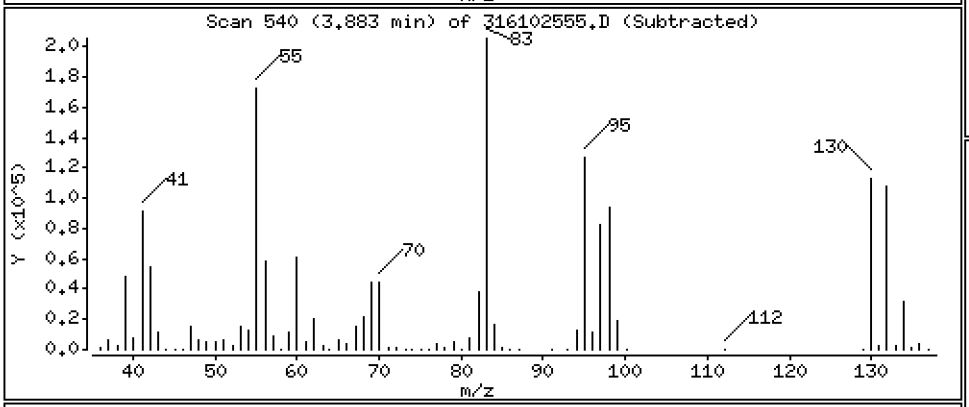
Sample Info: 2429302;;1;3;;LCS;1;

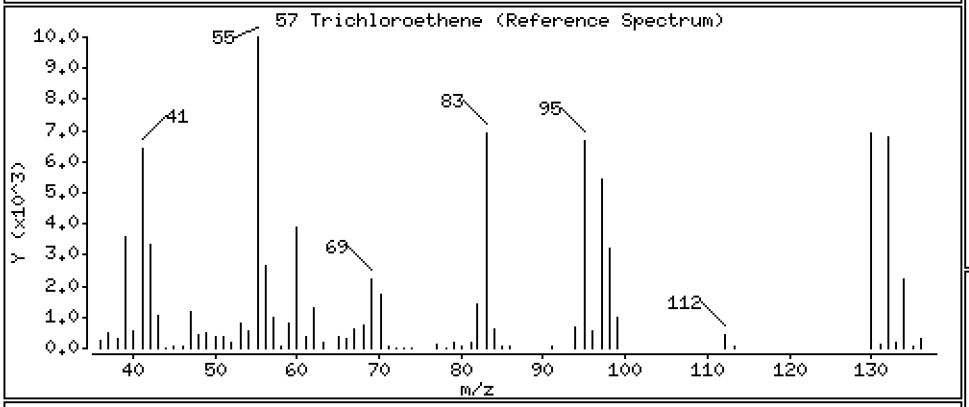
Purge Volume: 5.0 Operator: CJG

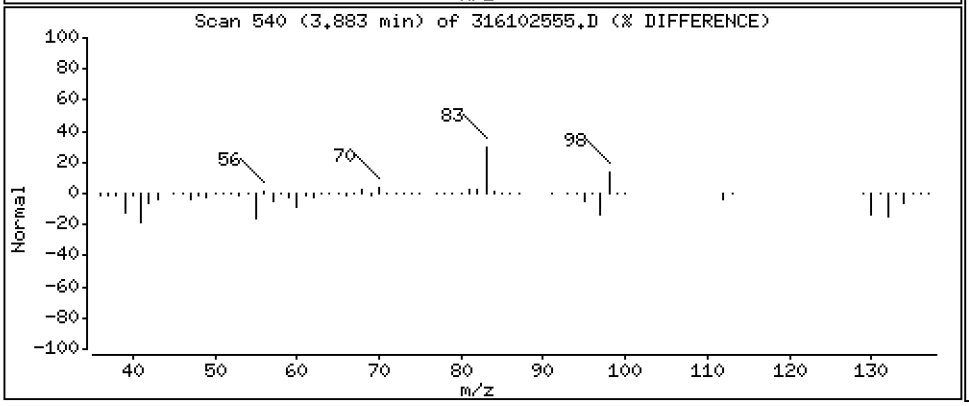
Column phase: DB-VRX Column diameter: 0.25

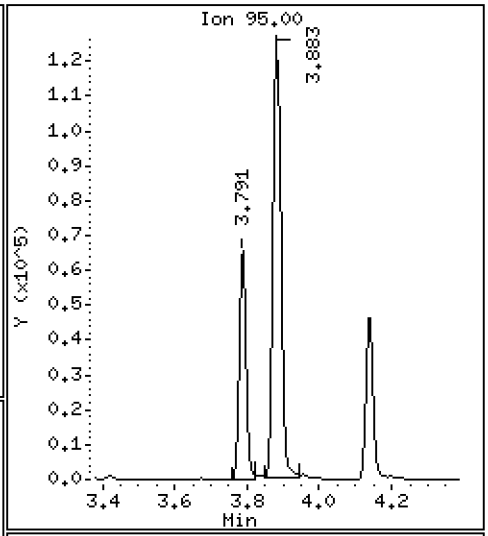
57 Trichloroethene Concentration: 18.8775 ug/L

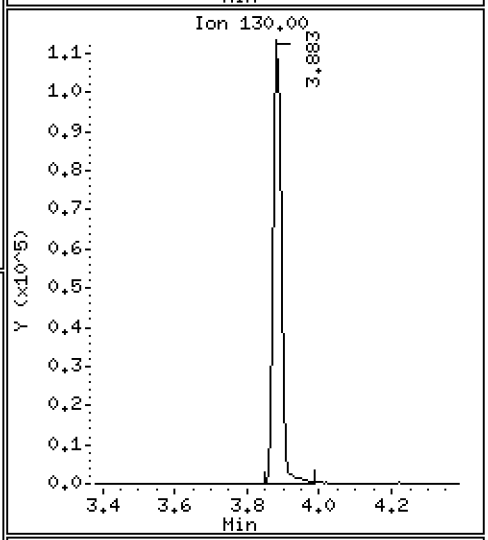


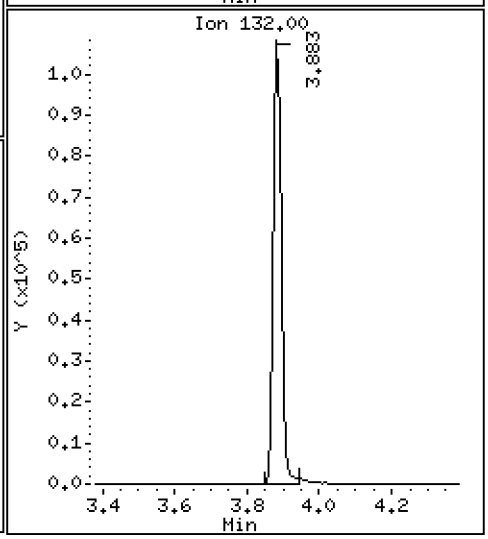












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 67

Date : 25-OCT-2016 23:28

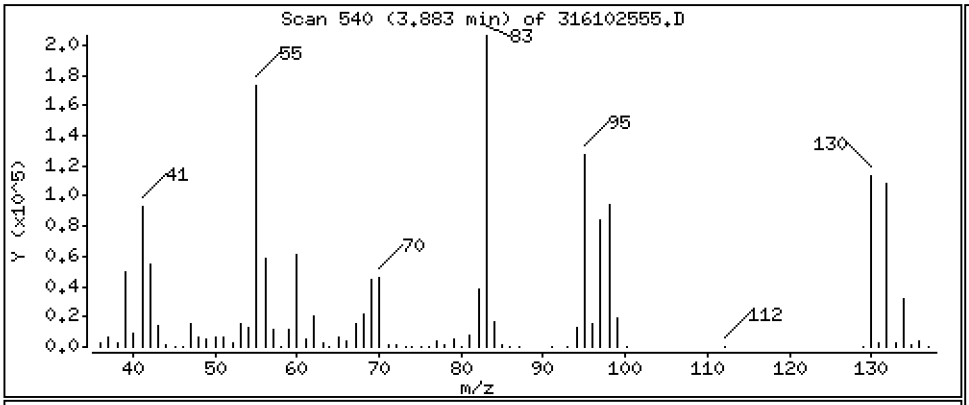
Client ID: LCS for HBN 174258 Instrument: ms03.i

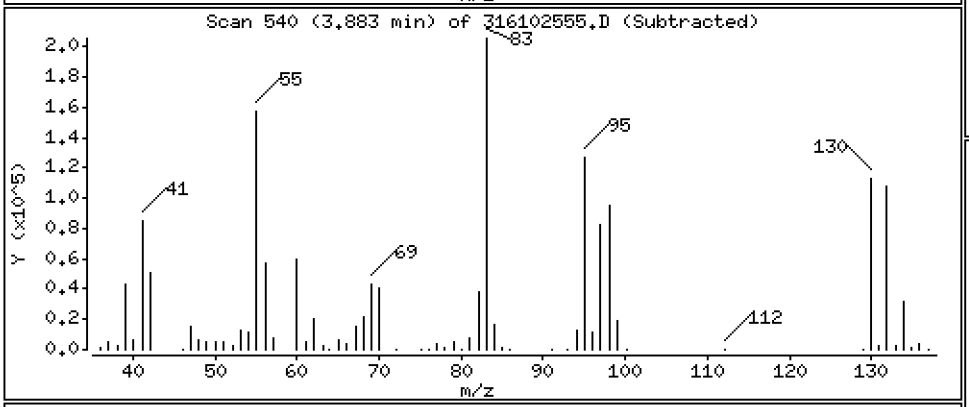
Sample Info: 2429302;;1;3;;LCS;1;

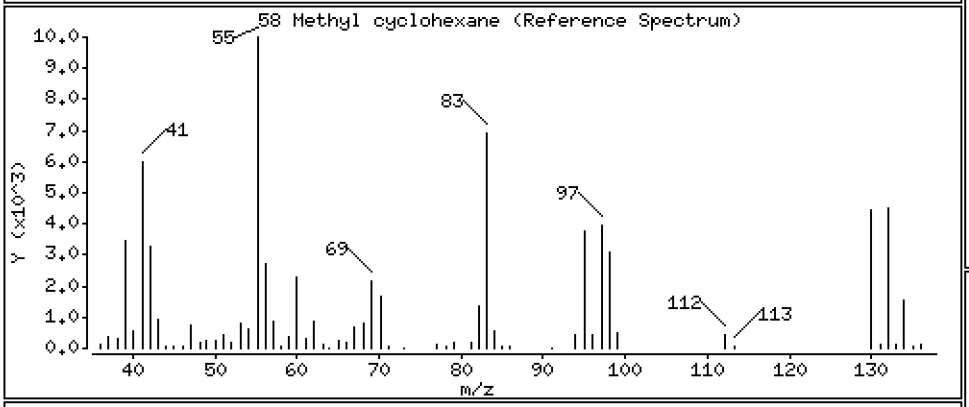
Purge Volume: 5.0 Operator: CJG

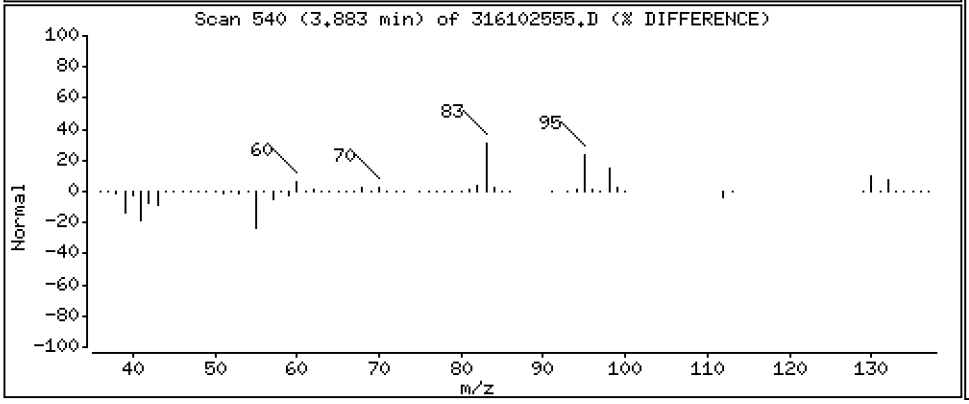
Column phase: DB-VRX Column diameter: 0.25

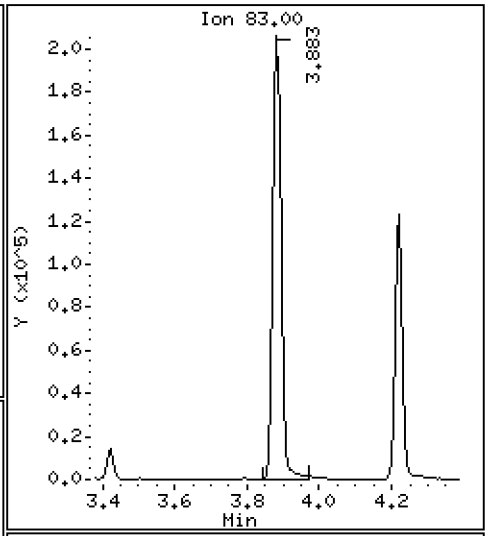
58 Methyl cyclohexane Concentration: 20.4156 ug/L

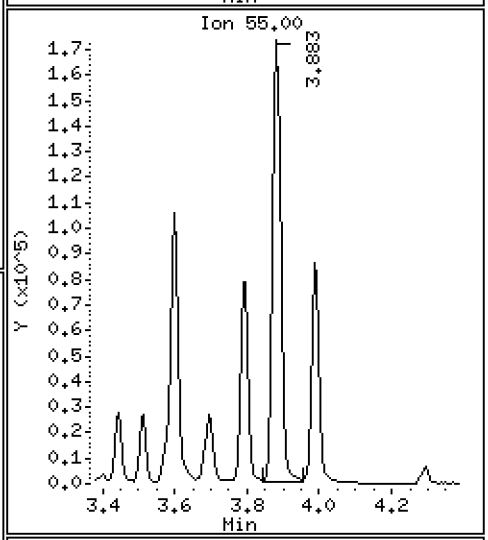


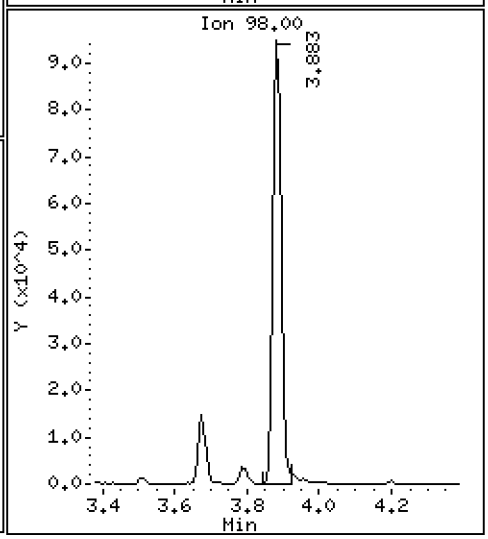












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 68

Date : 25-OCT-2016 23:28

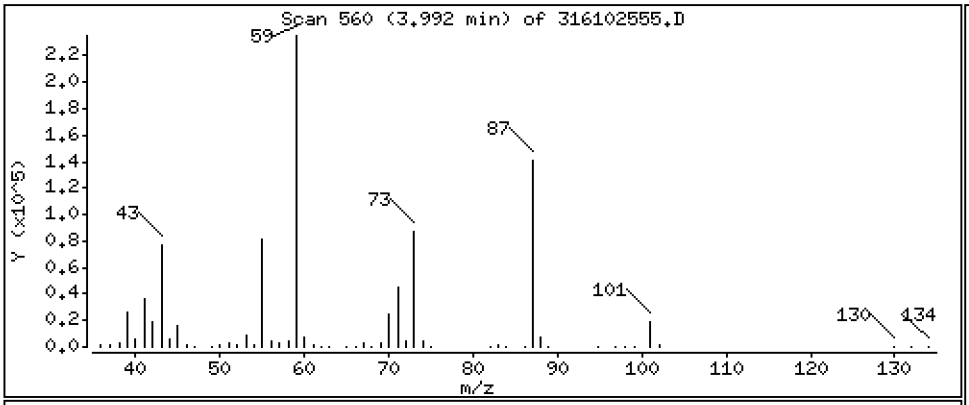
Client ID: LCS for HBN 174258 Instrument: ms03.i

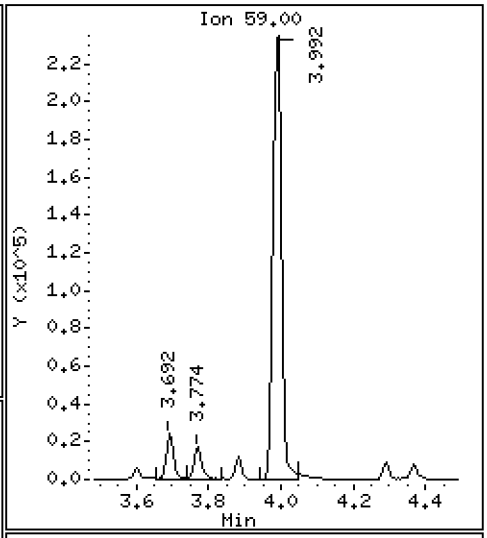
Sample Info: 2429302;;1;3;;LCS;1;

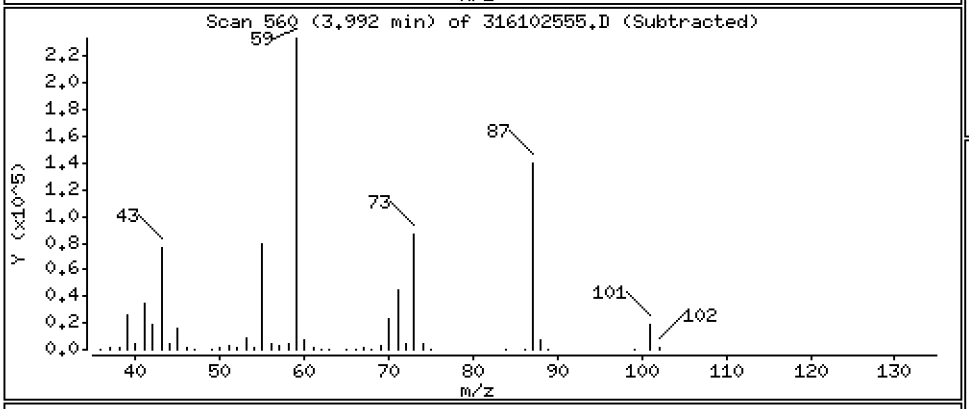
Purge Volume: 5.0 Operator: CJG

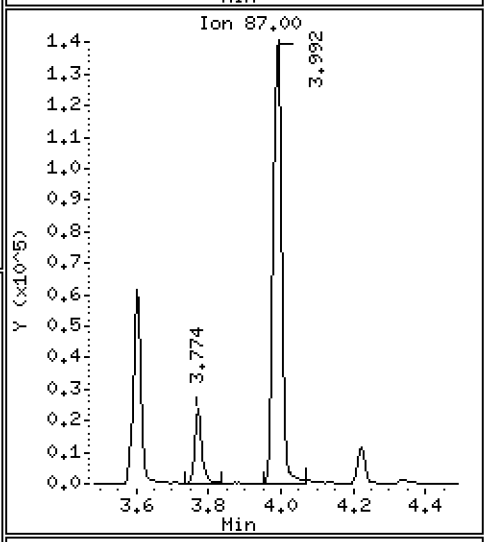
Column phase: DB-VRX Column diameter: 0.25

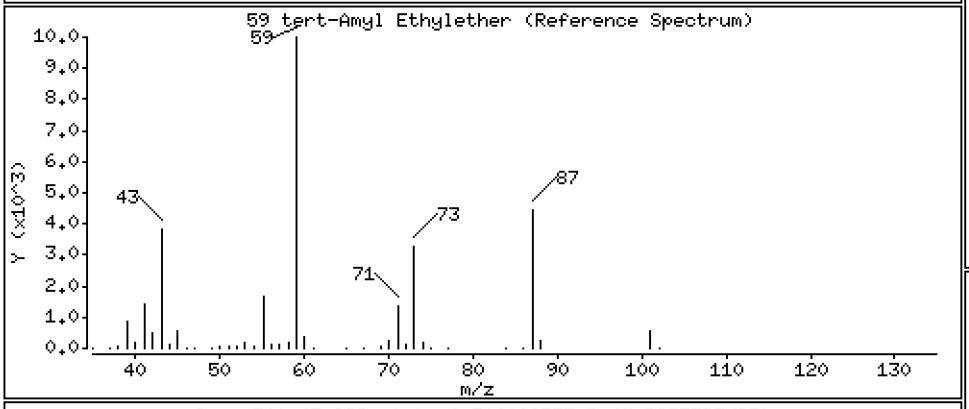
59 tert-Amyl Ethylether Concentration: 20.1439 ug/L

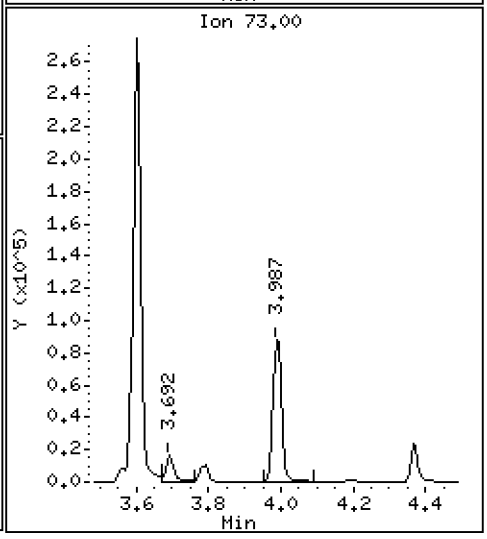


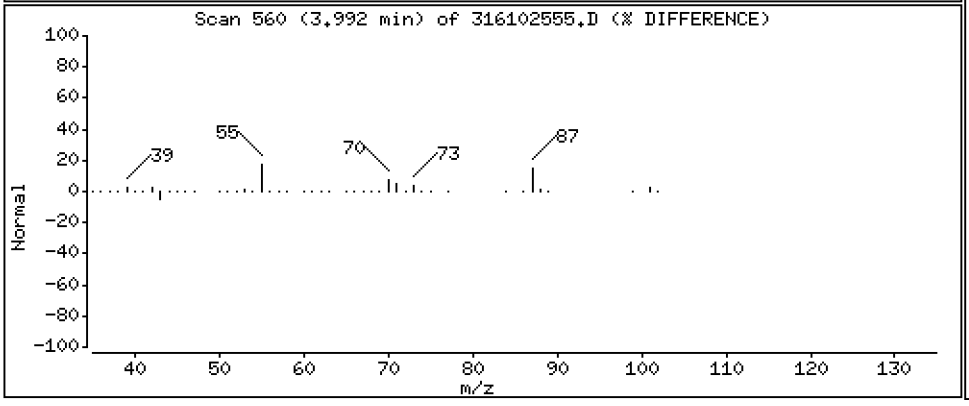












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 69

Date : 25-OCT-2016 23:28

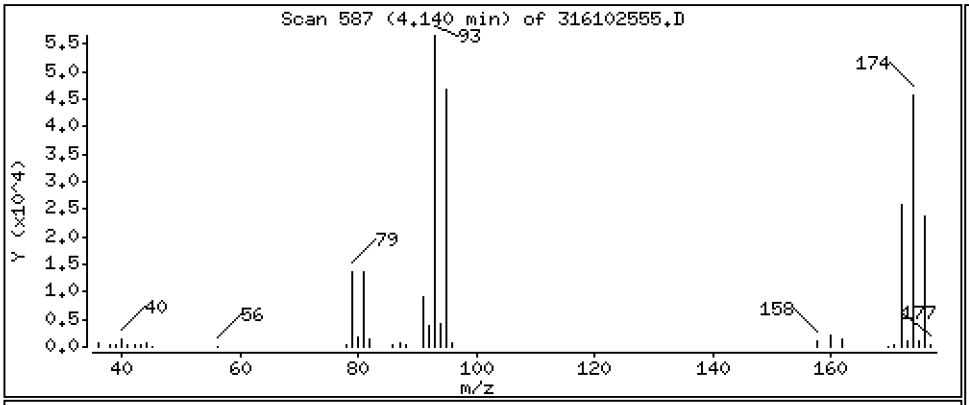
Client ID: LCS for HBN 174258 Instrument: ms03.i

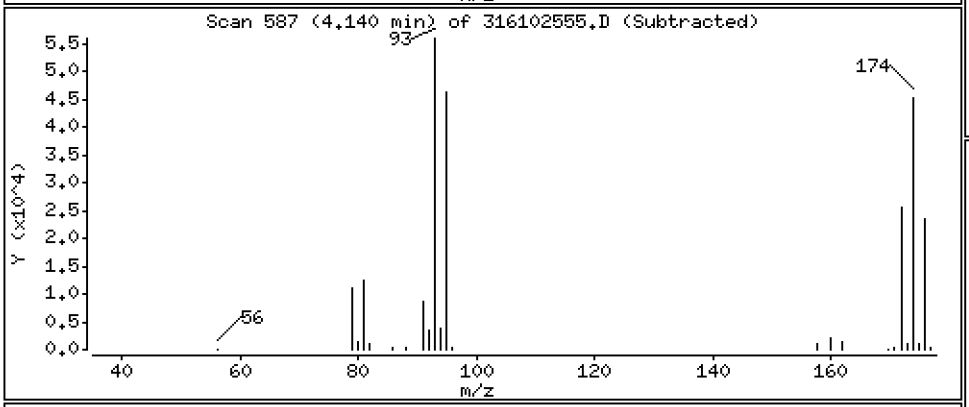
Sample Info: 2429302;;1;3;;LCS;1;

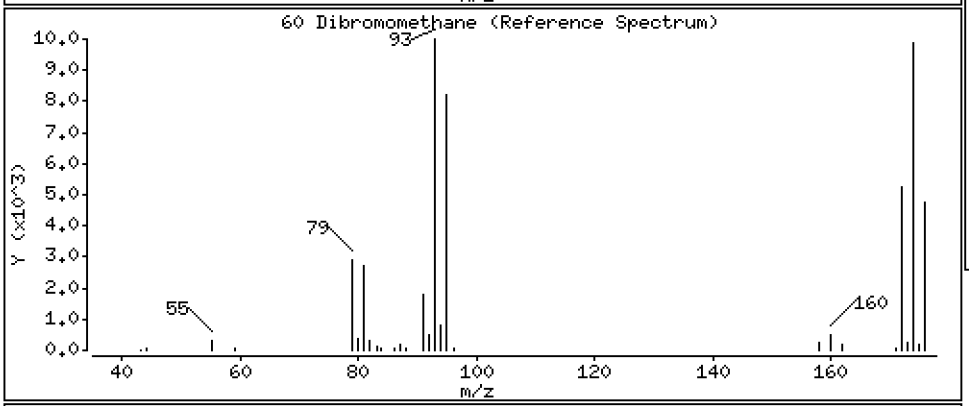
Purge Volume: 5.0 Operator: CJG

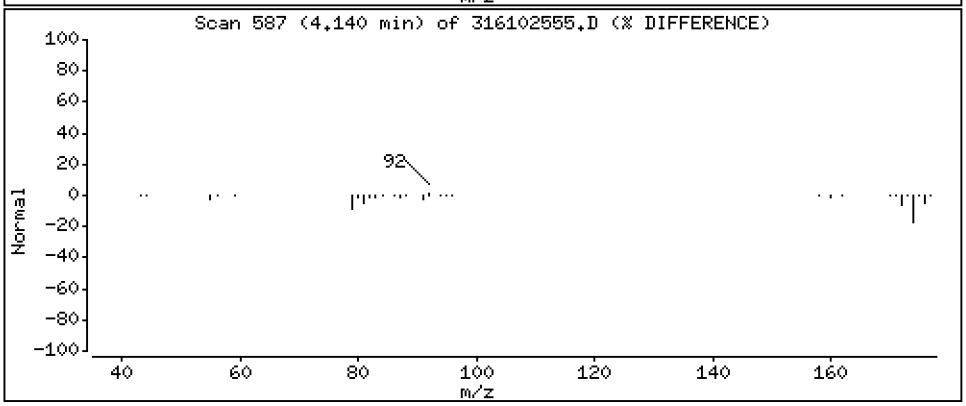
Column phase: DB-VRX Column diameter: 0.25

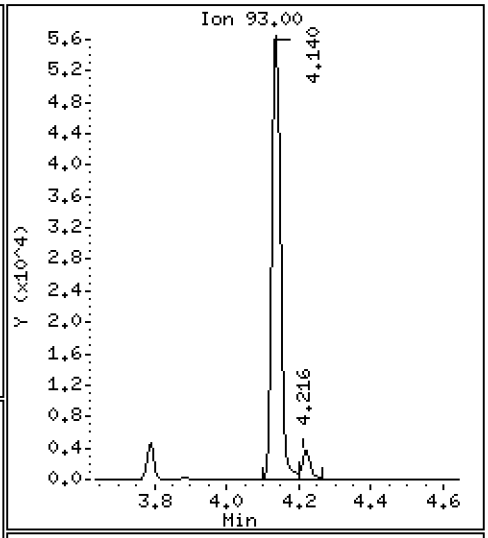
60 Dibromomethane Concentration: 18.6463 ug/L

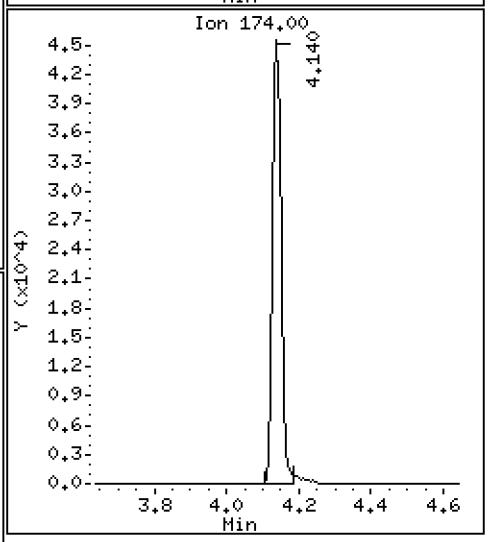












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 70

Date : 25-OCT-2016 23:28

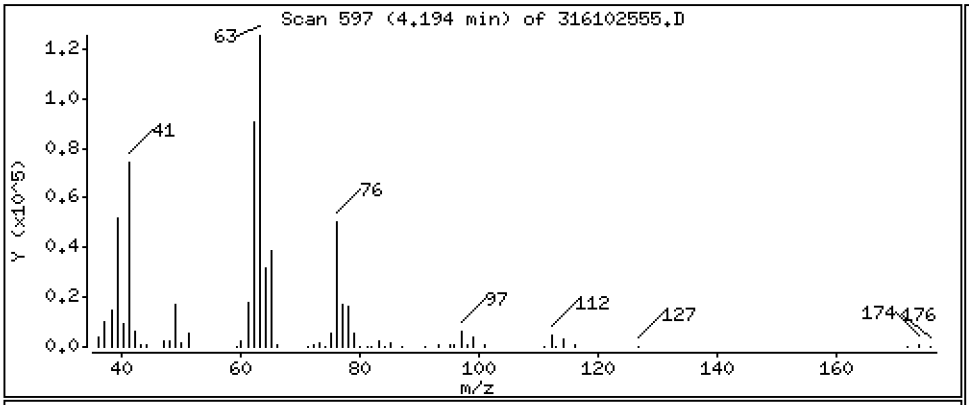
Client ID: LCS for HBN 174258 Instrument: ms03.i

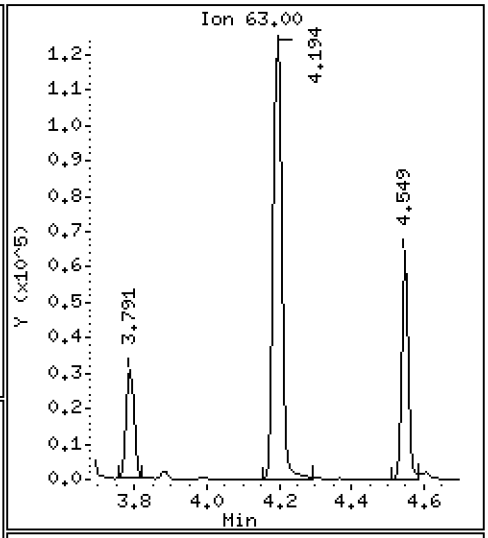
Sample Info: 2429302;;1;3;;LCS;1;

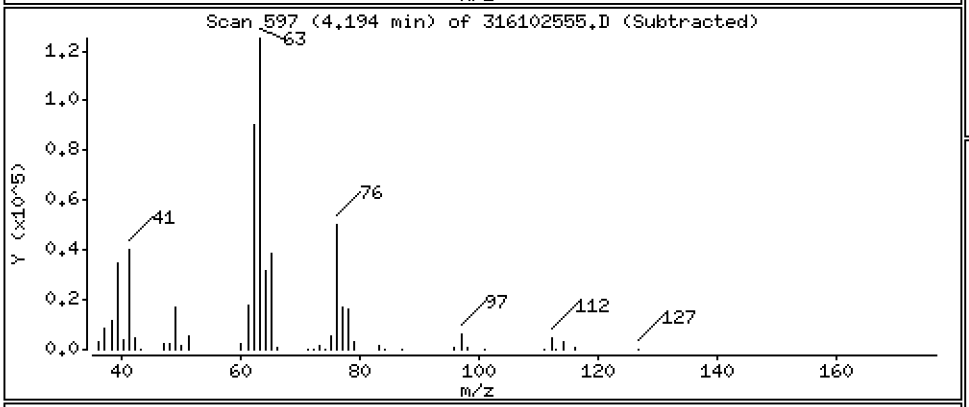
Purge Volume: 5.0 Operator: CJG

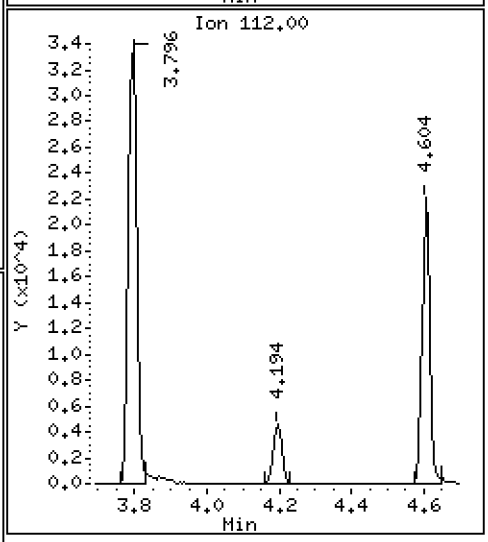
Column phase: DB-VRX Column diameter: 0.25

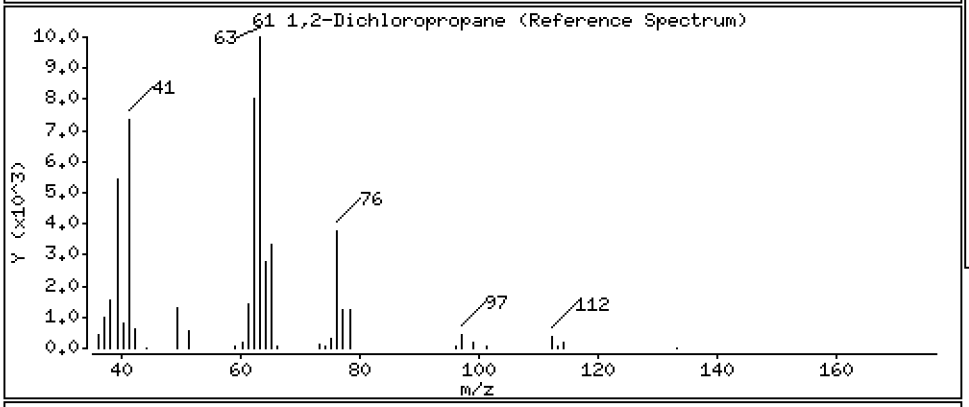
61 1,2-Dichloropropane Concentration: 20.2484 ug/L

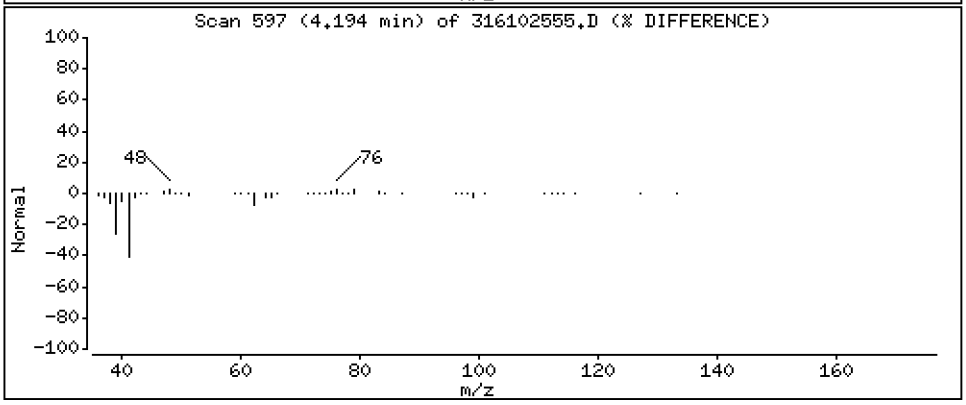












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 71

Date : 25-OCT-2016 23:28

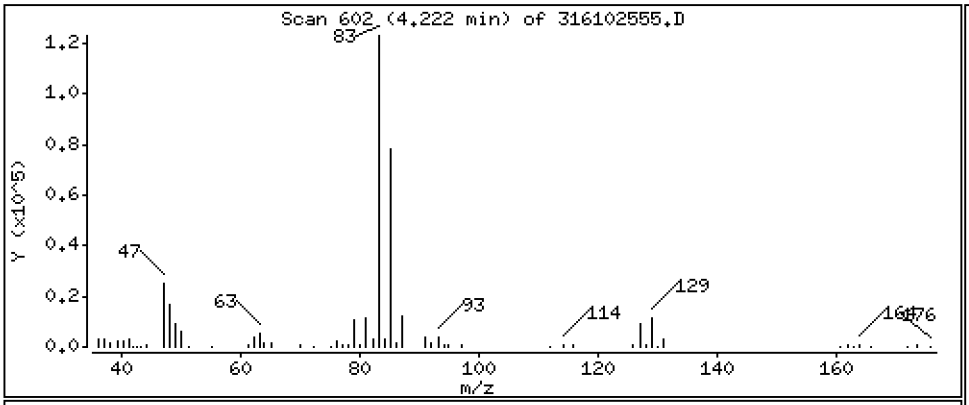
Client ID: LCS for HBN 174258 Instrument: ms03.i

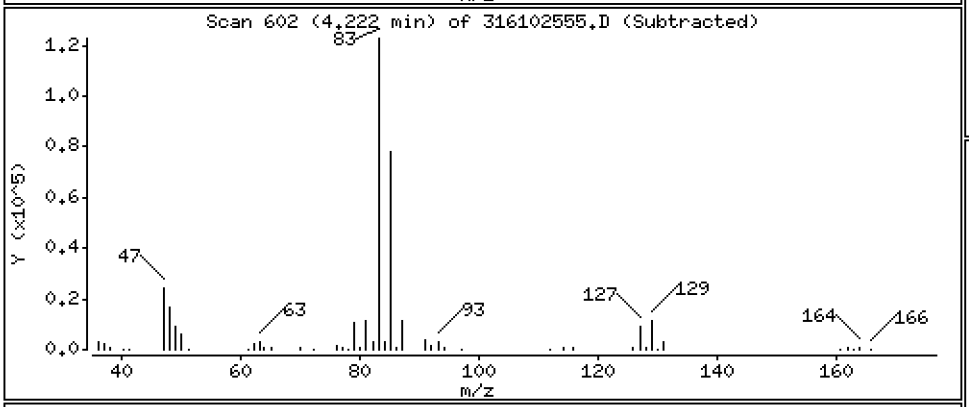
Sample Info: 2429302;;1;3;;LCS;1;

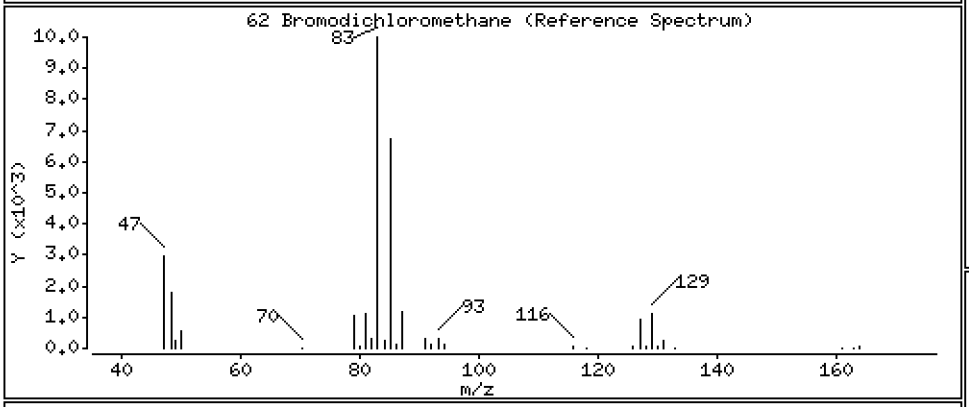
Purge Volume: 5.0 Operator: CJG

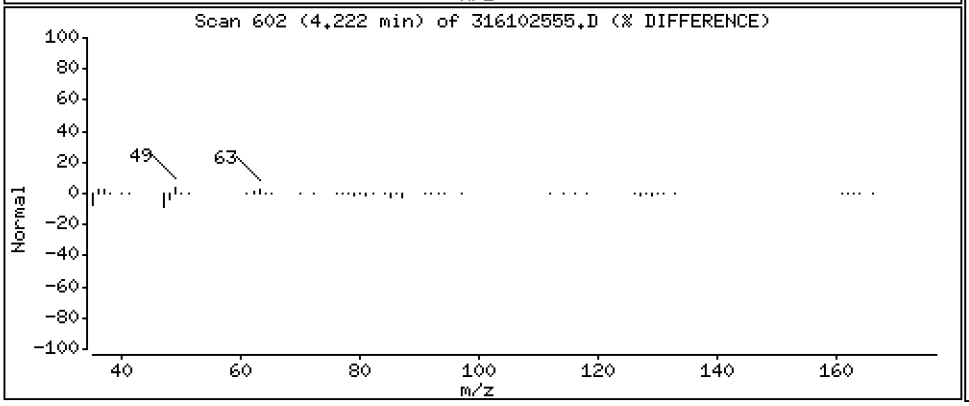
Column phase: DB-VRX Column diameter: 0.25

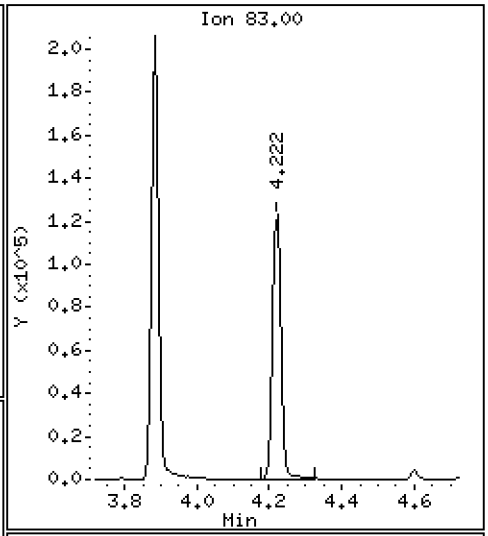
62 Bromodichloromethane Concentration: 19.4147 ug/L

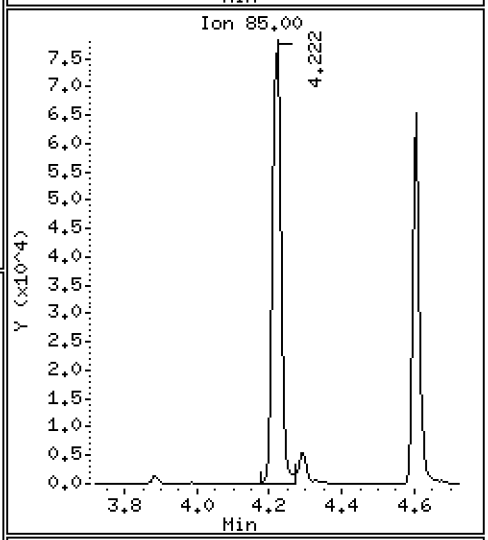


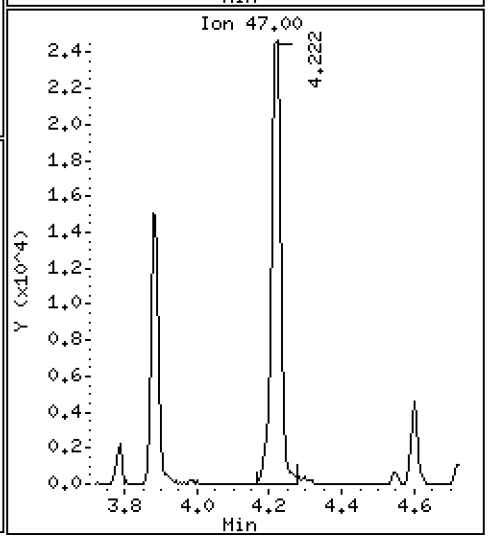












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 72

Date : 25-OCT-2016 23:28

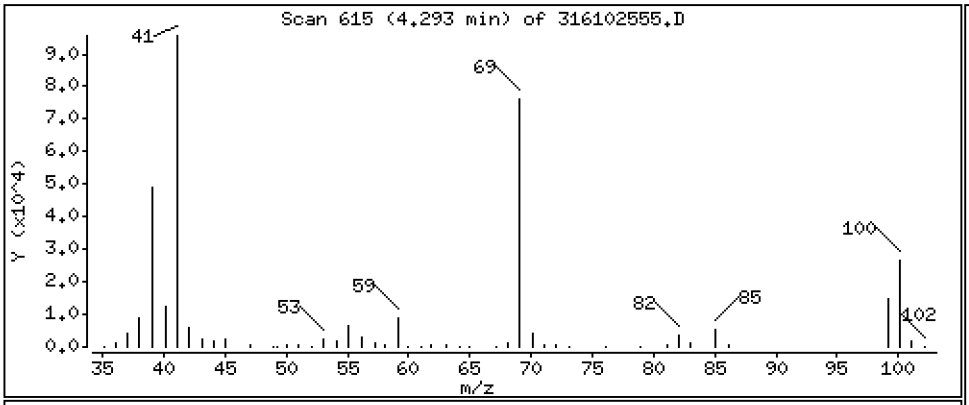
Client ID: LCS for HBN 174258 Instrument: ms03.i

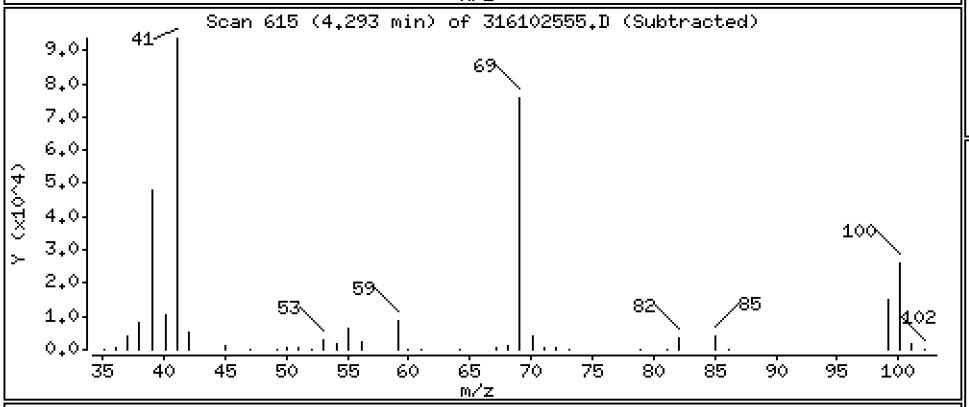
Sample Info: 2429302;;1;3;;LCS;1;

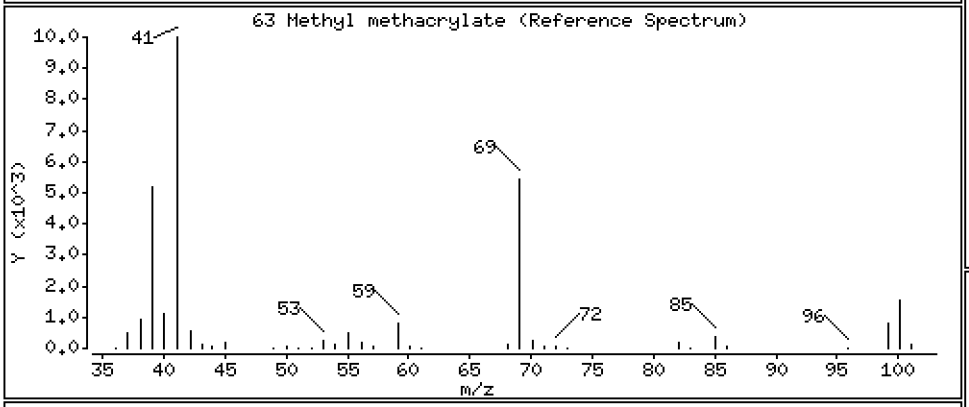
Purge Volume: 5.0 Operator: CJG

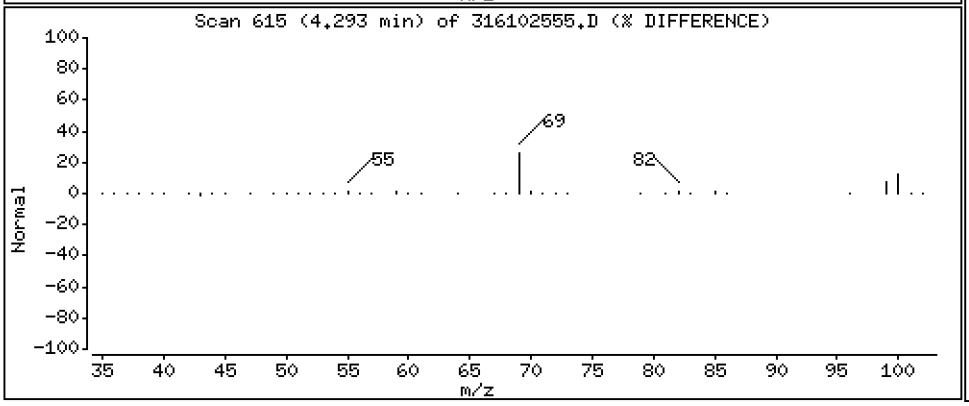
Column phase: DB-VRX Column diameter: 0.25

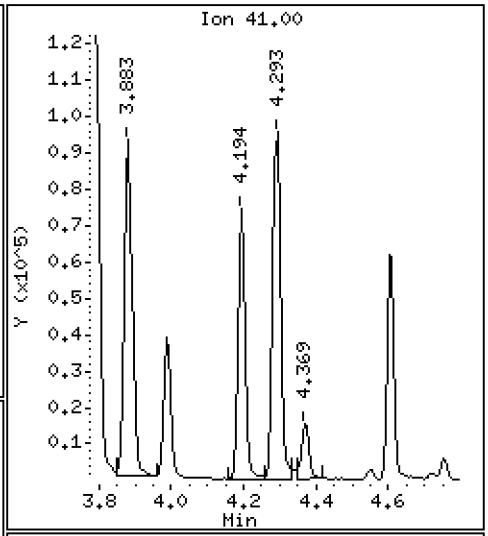
63 Methyl methacrylate Concentration: 20.5540 ug/L

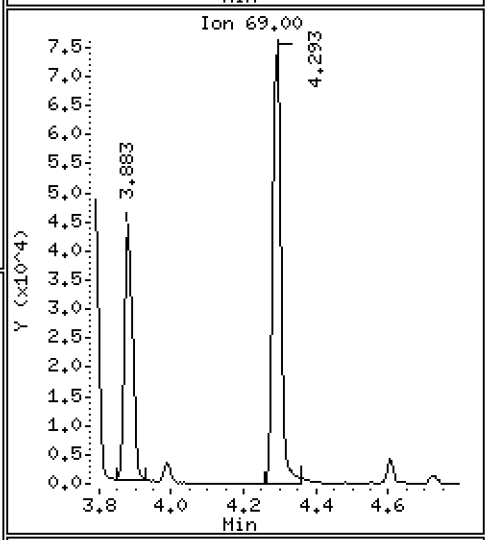


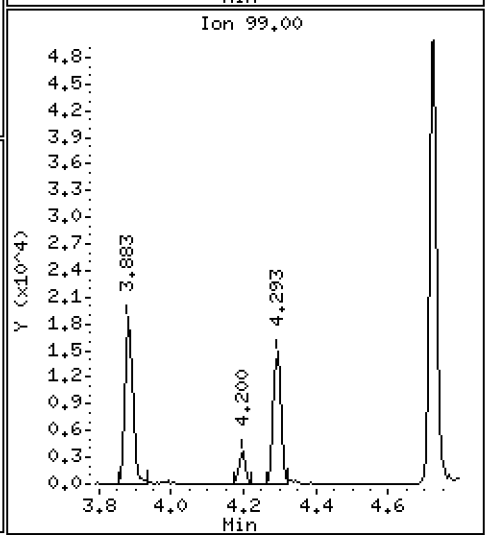












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 73

Date : 25-OCT-2016 23:28

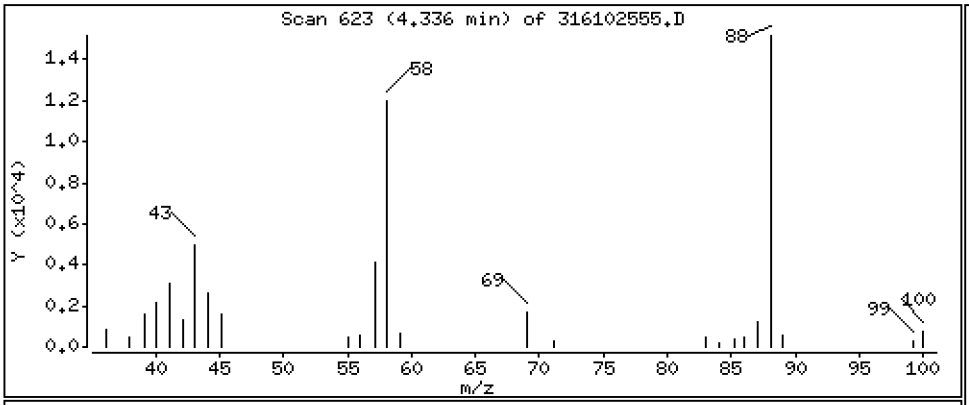
Client ID: LCS for HBN 174258 Instrument: ms03.i

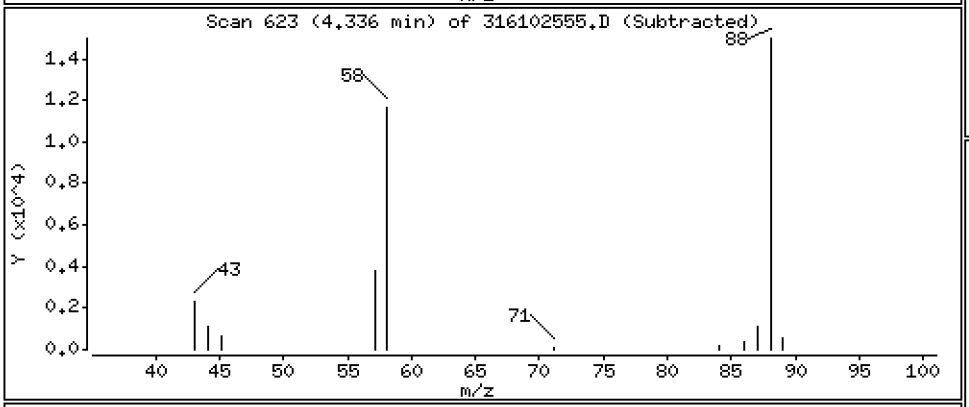
Sample Info: 2429302;;1;3;;LCS;1;

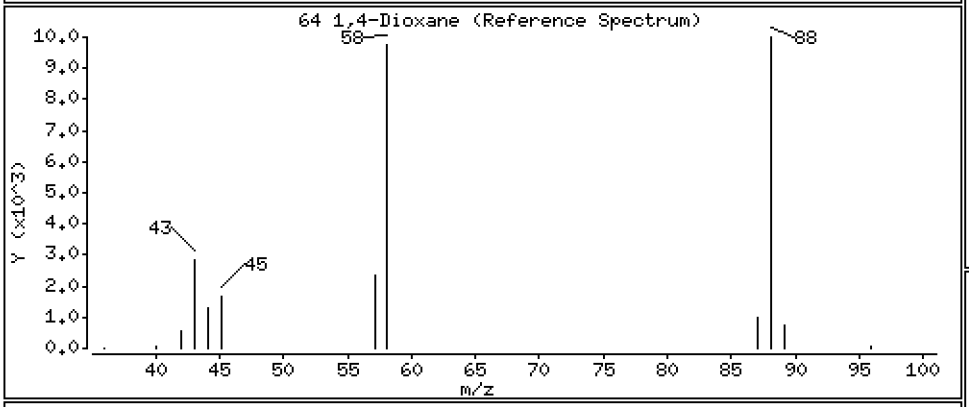
Purge Volume: 5.0 Operator: CJG

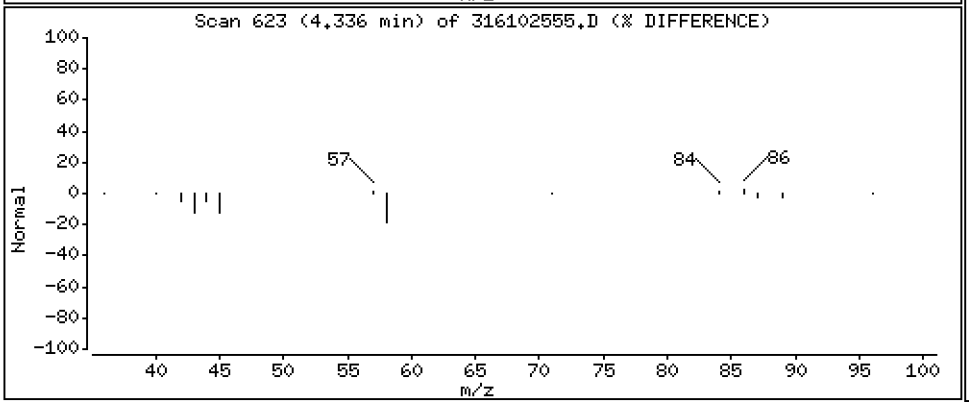
Column phase: DB-VRX Column diameter: 0.25

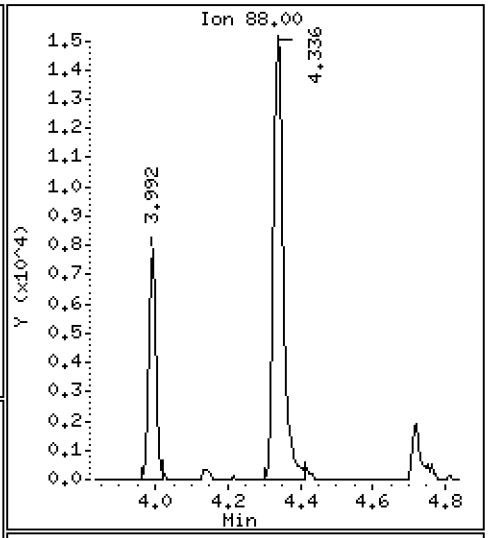
64 1,4-Dioxane Concentration: 856.102 ug/L

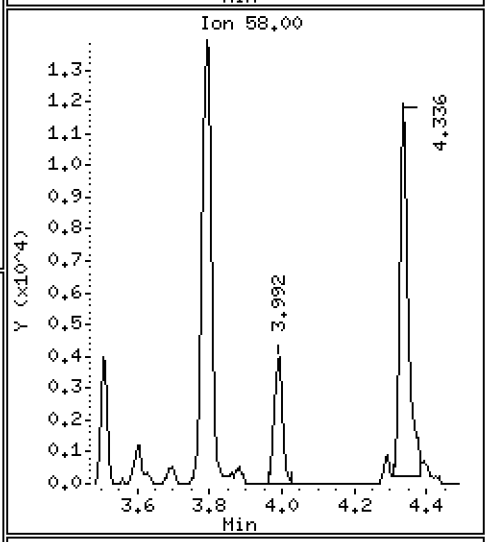


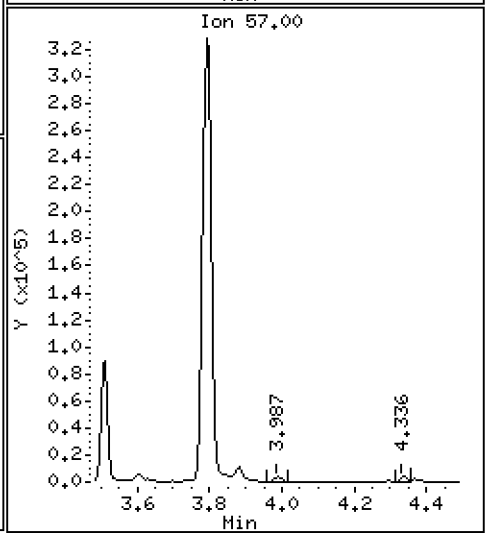












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 74

Date : 25-OCT-2016 23:28

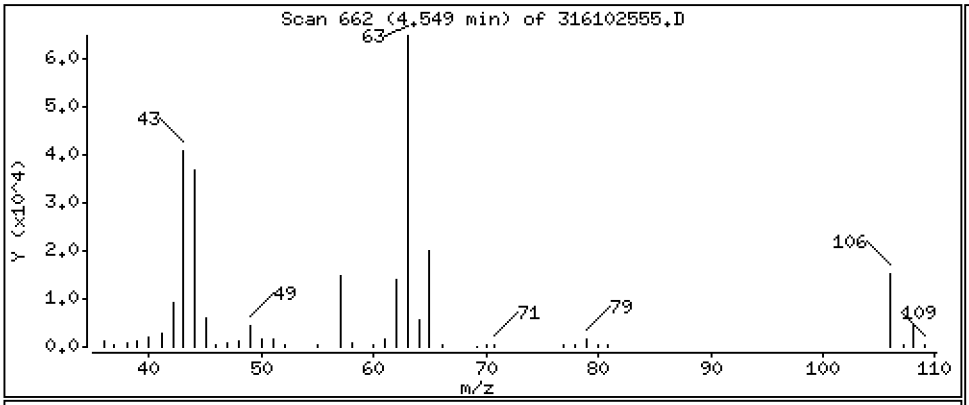
Client ID: LCS for HBN 174258 Instrument: ms03.i

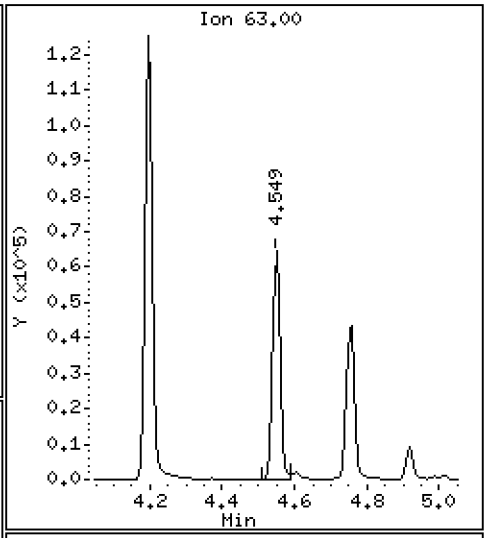
Sample Info: 2429302;;1;3;;LCS;1;

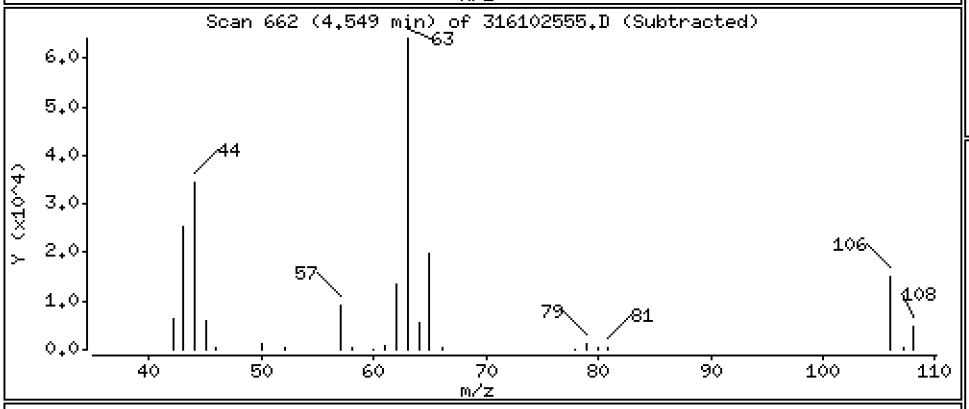
Purge Volume: 5.0 Operator: CJG

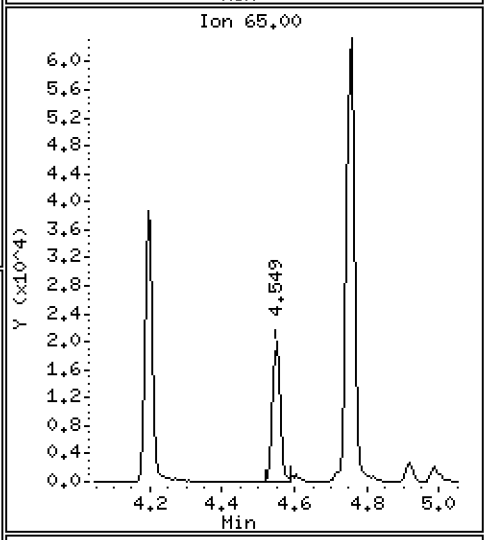
Column phase: DB-VRX Column diameter: 0.25

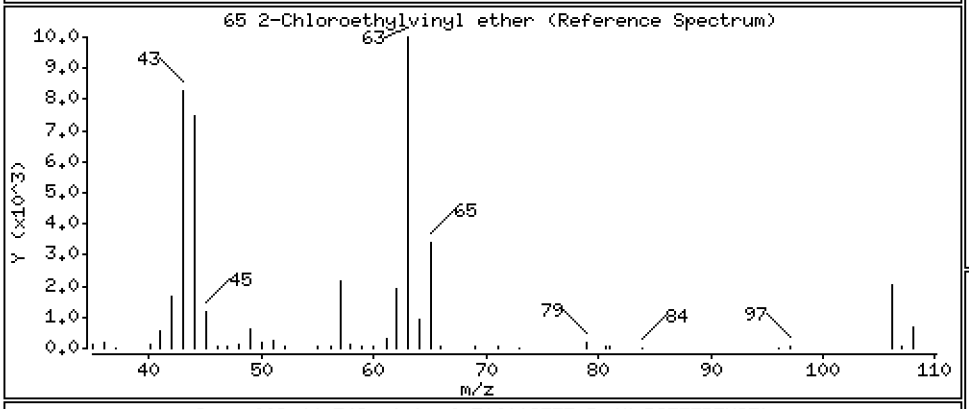
65 2-Chloroethylvinyl ether Concentration: 18.5507 ug/L

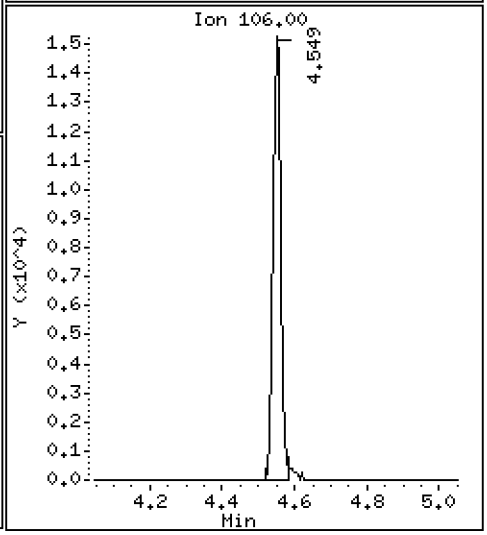


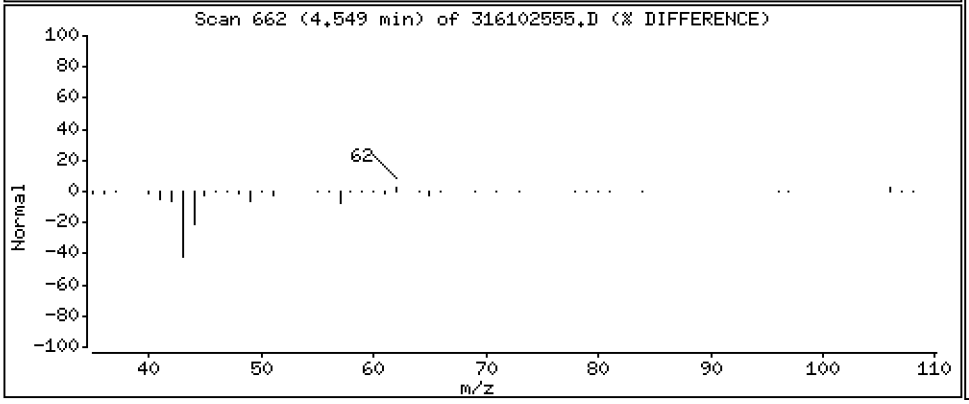












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 75

Date : 25-OCT-2016 23:28

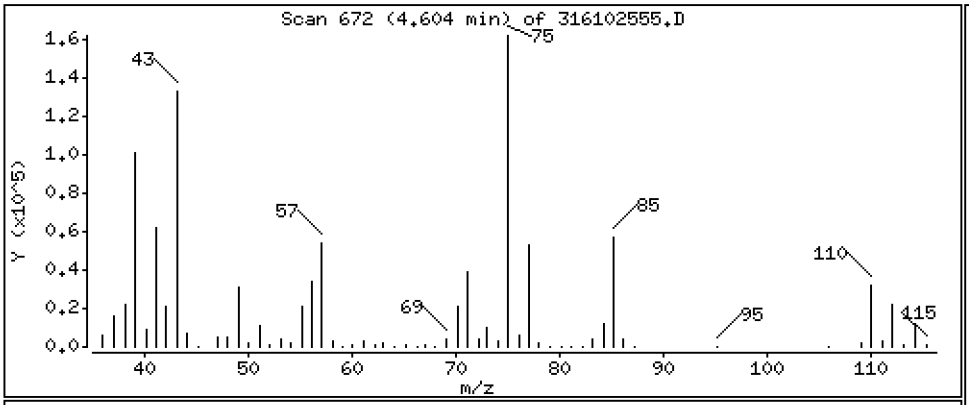
Client ID: LCS for HBN 174258 Instrument: ms03.i

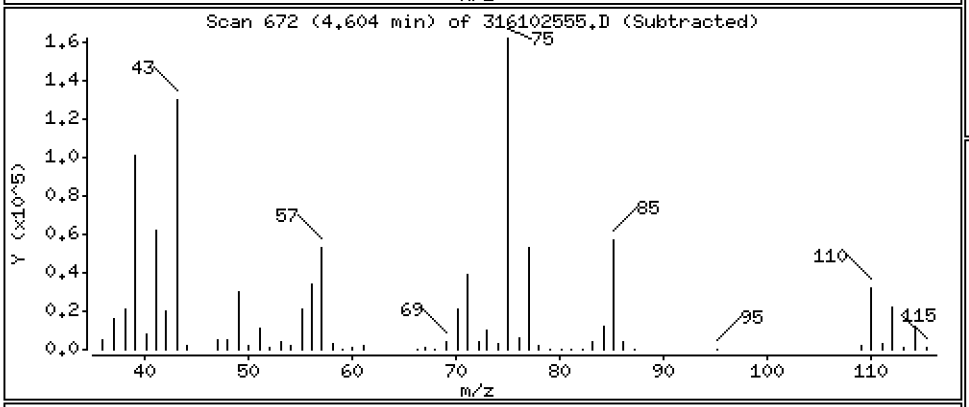
Sample Info: 2429302;;1;3;;LCS;1;

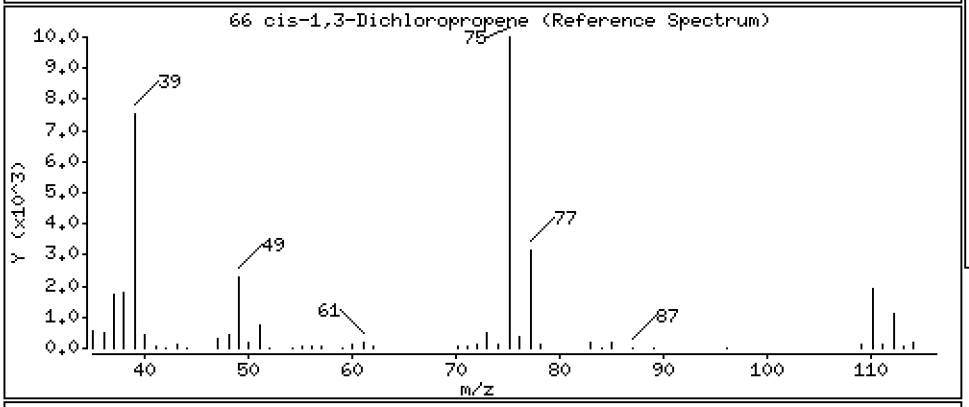
Purge Volume: 5.0 Operator: CJG

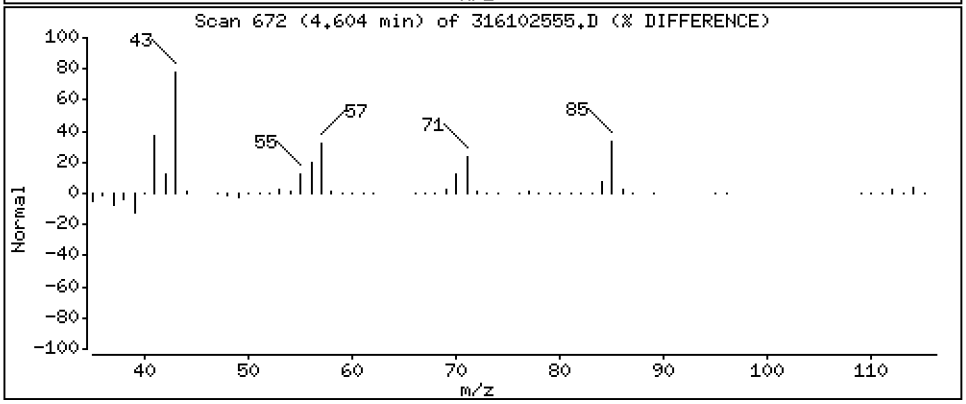
Column phase: DB-VRX Column diameter: 0.25

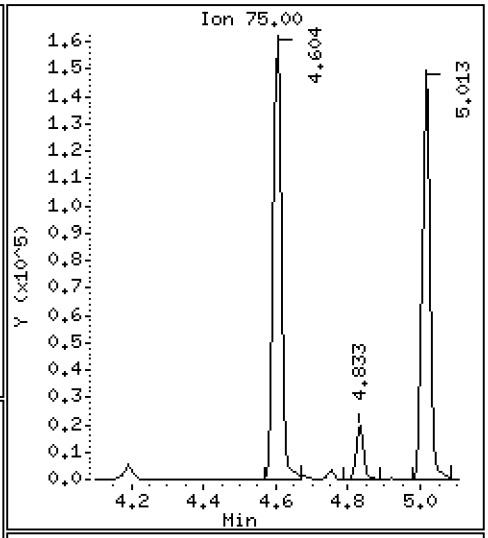
66 cis-1,3-Dichloropropene Concentration: 19.2462 ug/L

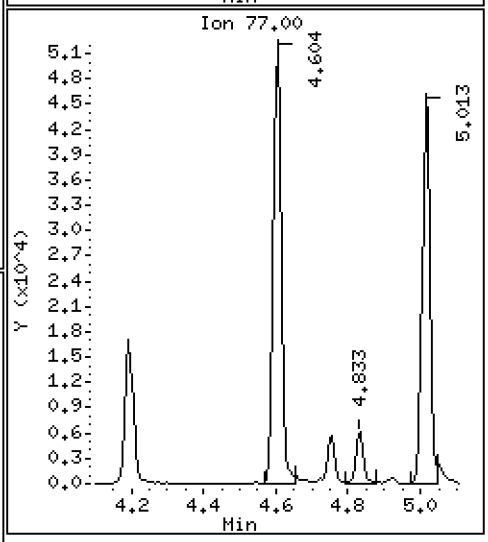












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 76

Date : 25-OCT-2016 23:28

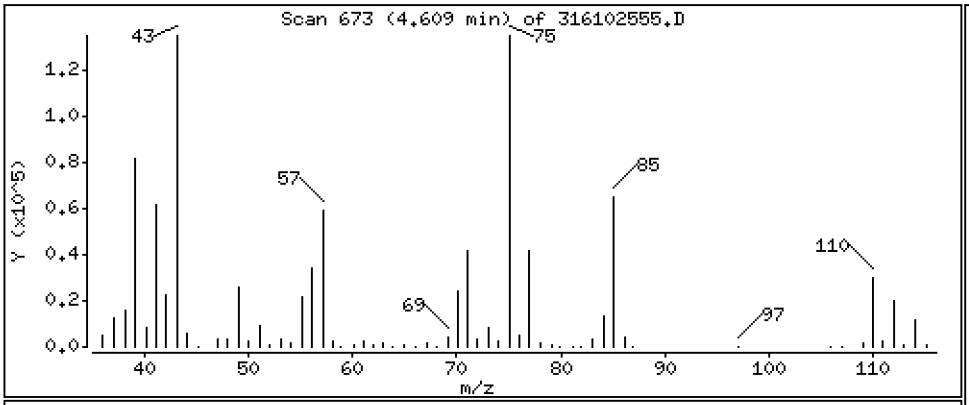
Client ID: LCS for HBN 174258 Instrument: ms03.i

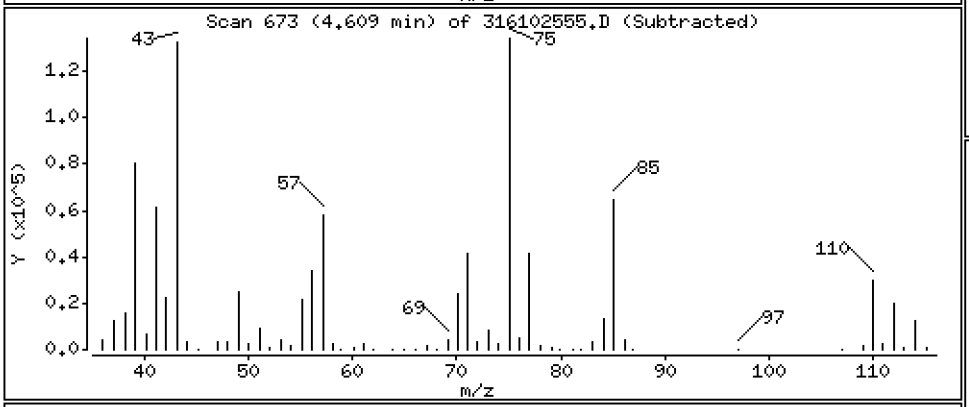
Sample Info: 2429302;;1;3;;LCS;1;

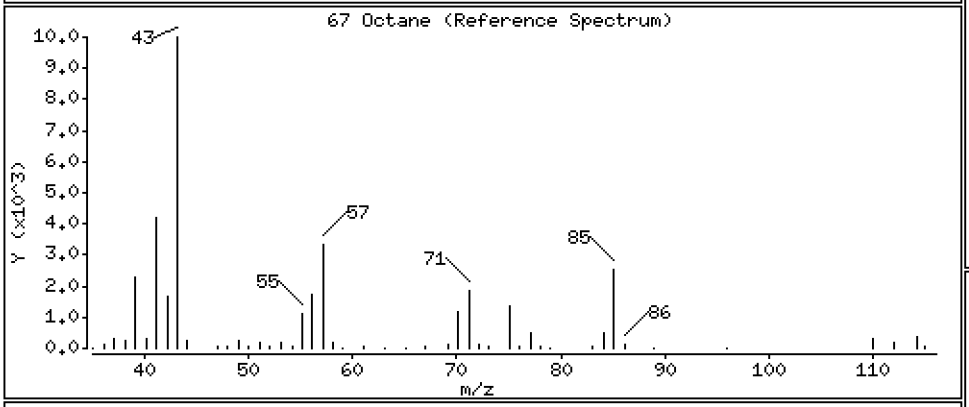
Purge Volume: 5.0 Operator: CJG

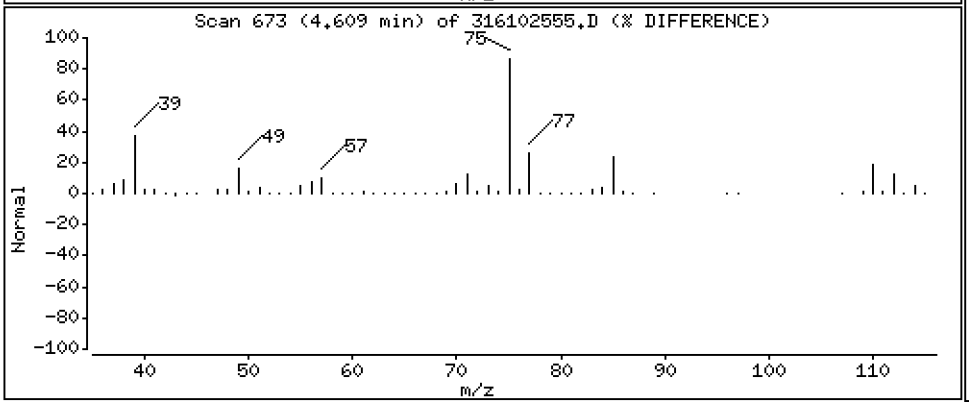
Column phase: DB-VRX Column diameter: 0.25

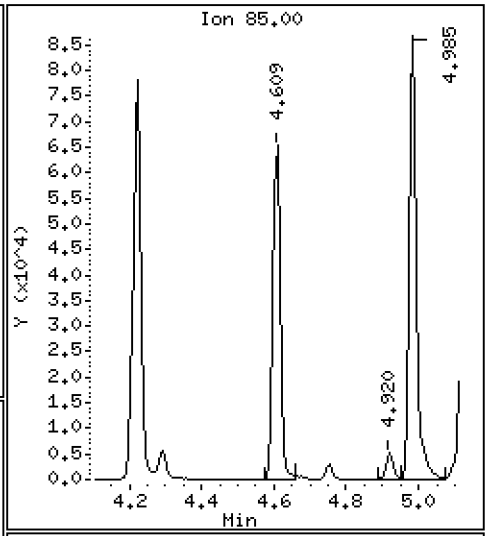
67 Octane Concentration: 22.9772 ug/L

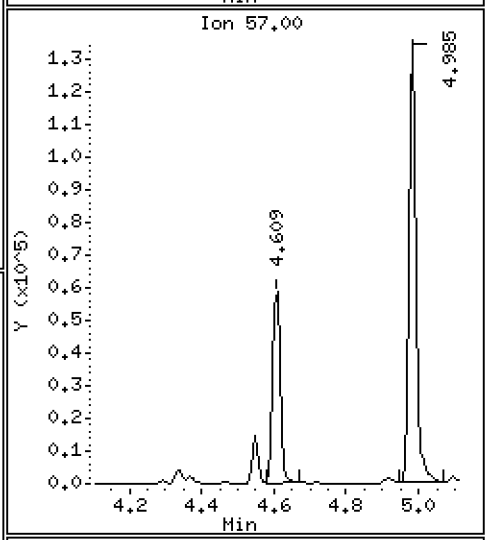


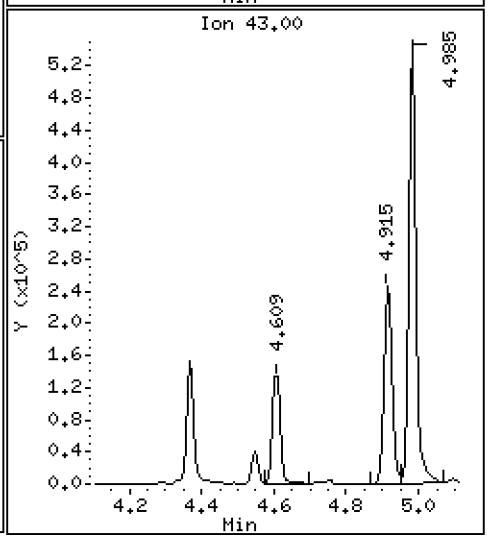












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 77

Date : 25-OCT-2016 23:28

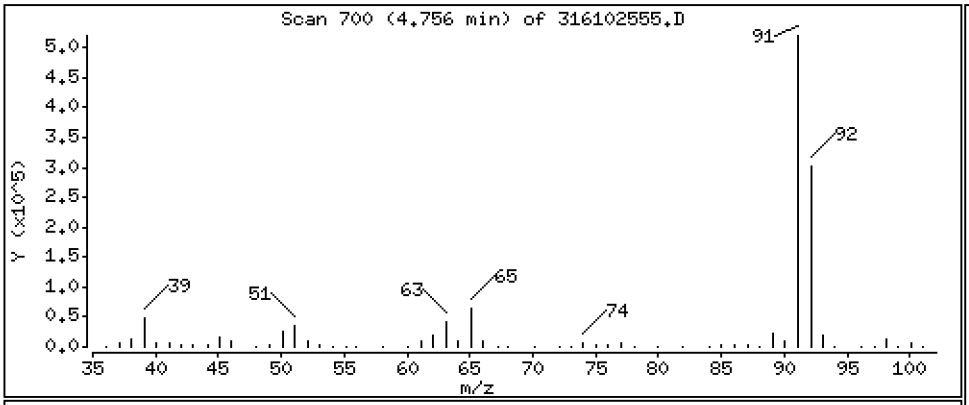
Client ID: LCS for HBN 174258 Instrument: ms03.i

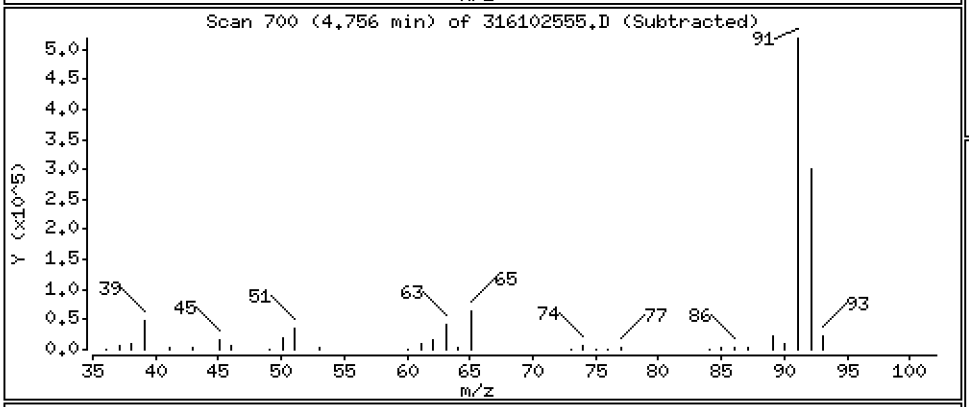
Sample Info: 2429302;;1;3;;LCS;1;

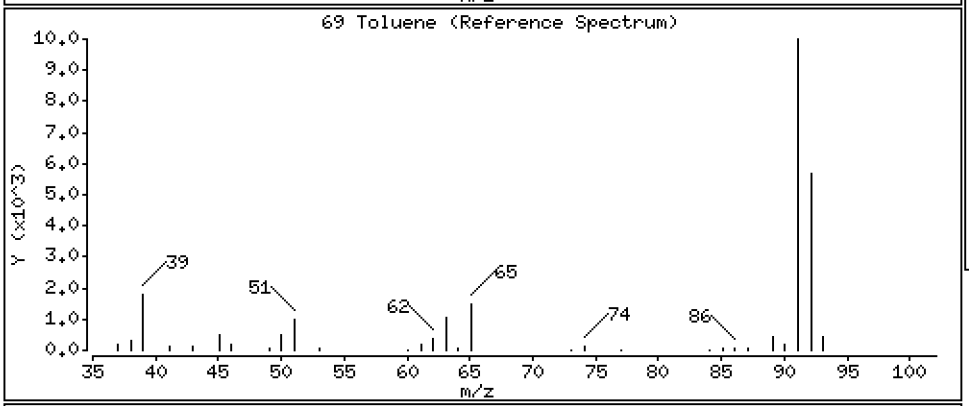
Purge Volume: 5.0 Operator: CJG

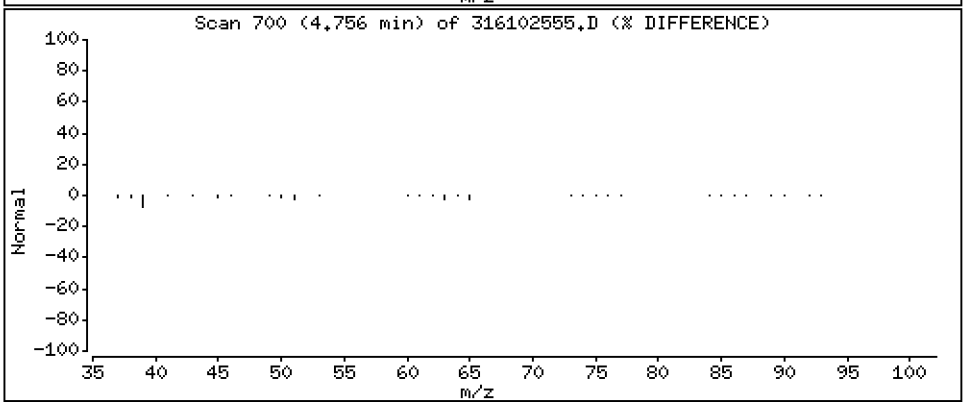
Column phase: DB-VRX Column diameter: 0.25

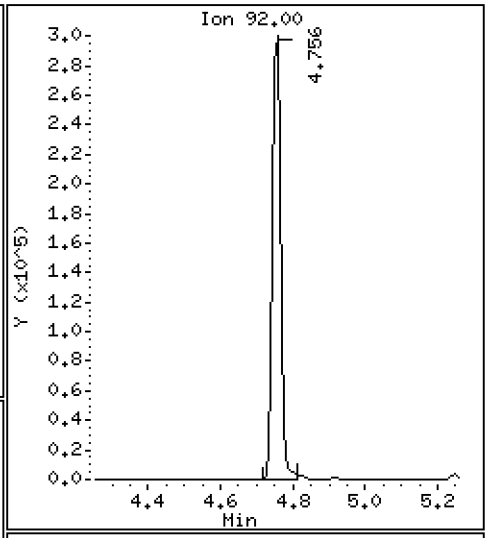
69 Toluene Concentration: 20.0977 ug/L

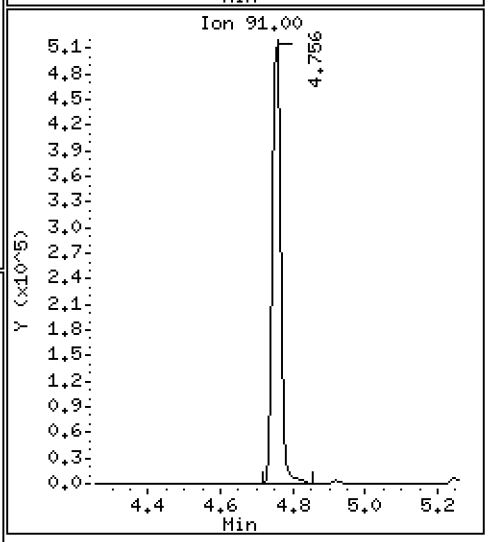












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 78

Date : 25-OCT-2016 23:28

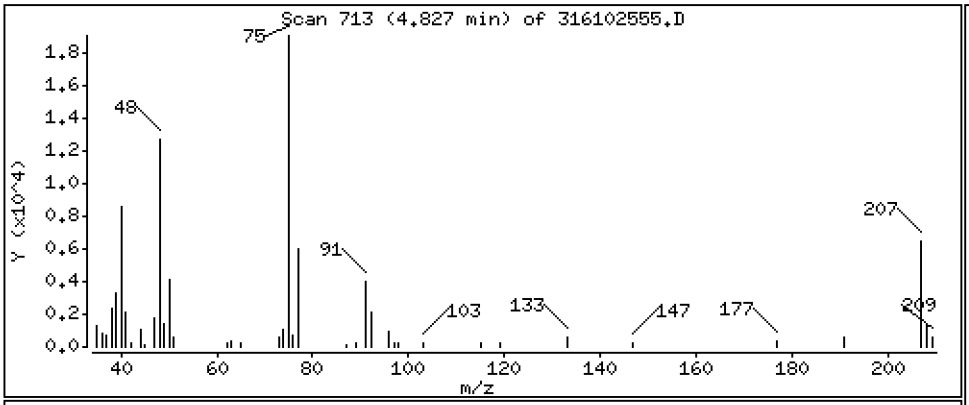
Client ID: LCS for HBN 174258 Instrument: ms03.i

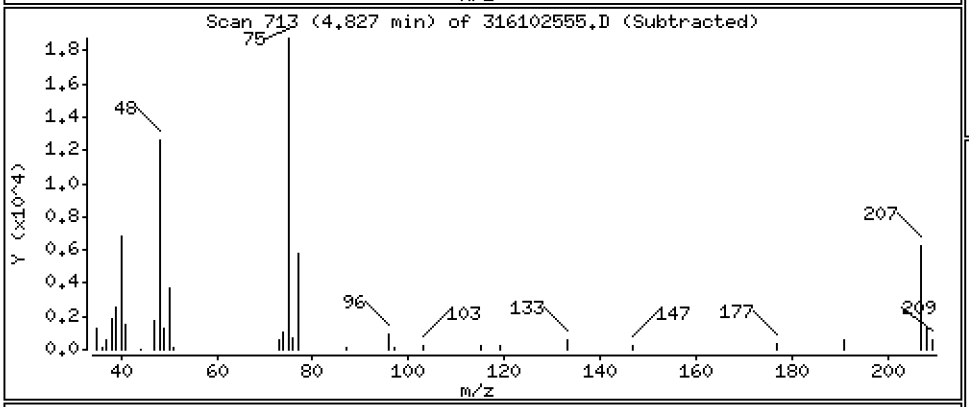
Sample Info: 2429302;;1;3;;LCS;1;

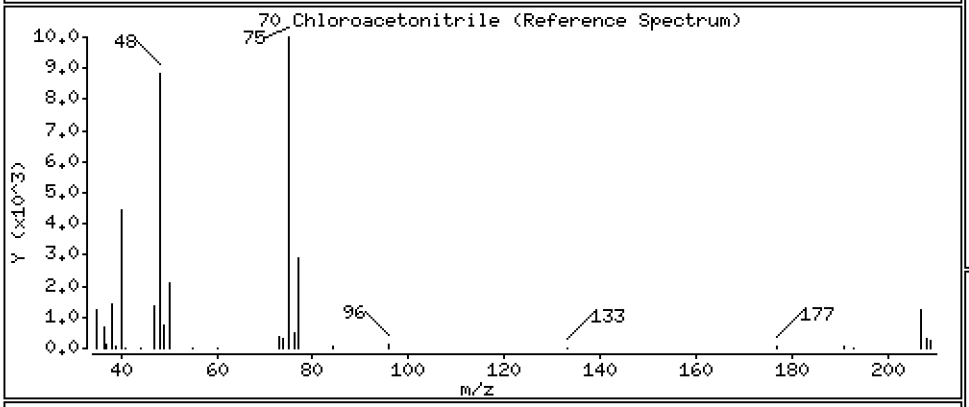
Purge Volume: 5.0 Operator: CJG

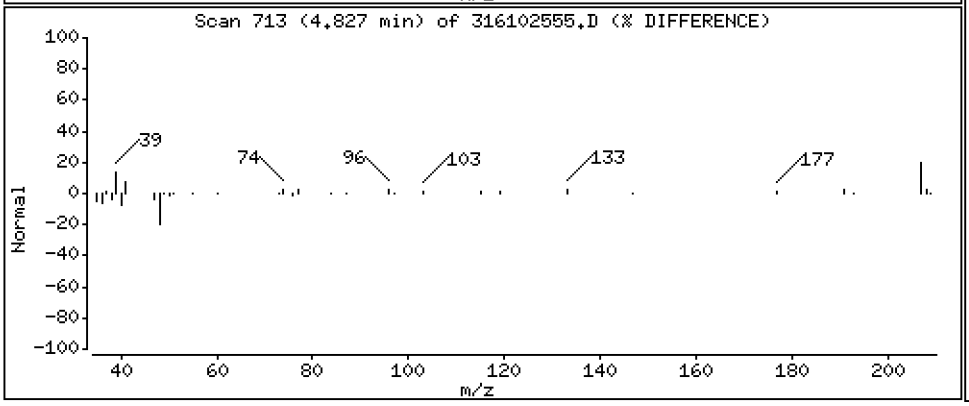
Column phase: DB-VRX Column diameter: 0.25

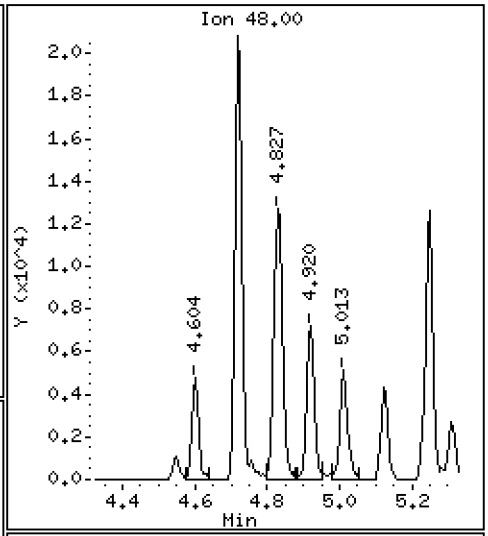
70 Chloroacetonitrile Concentration: 102.605 ug/L

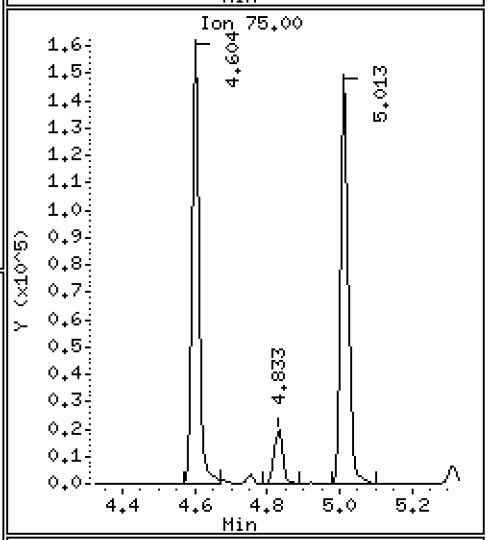


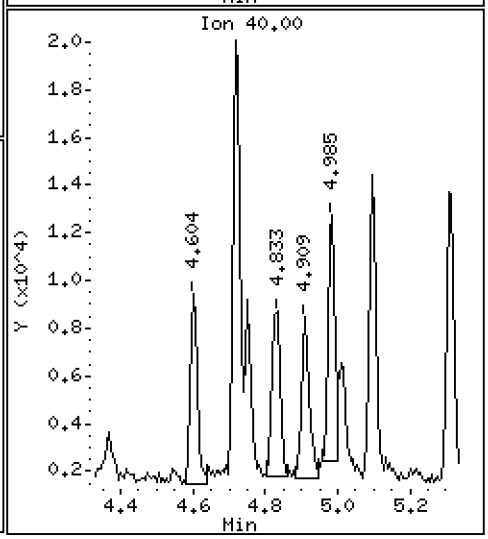












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 79

Date : 25-OCT-2016 23:28

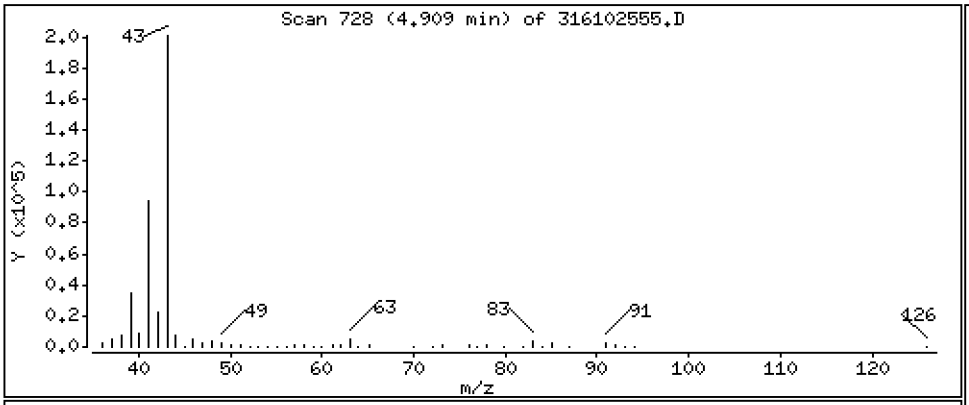
Client ID: LCS for HBN 174258 Instrument: ms03.i

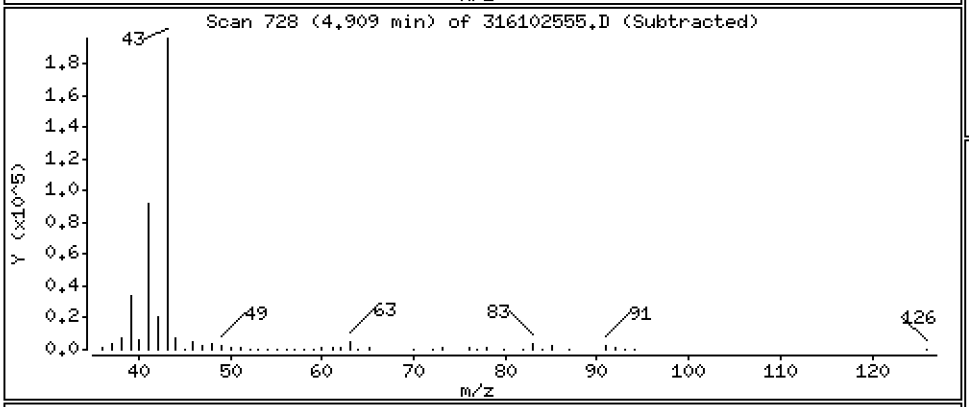
Sample Info: 2429302;;1;3;;LCS;1;

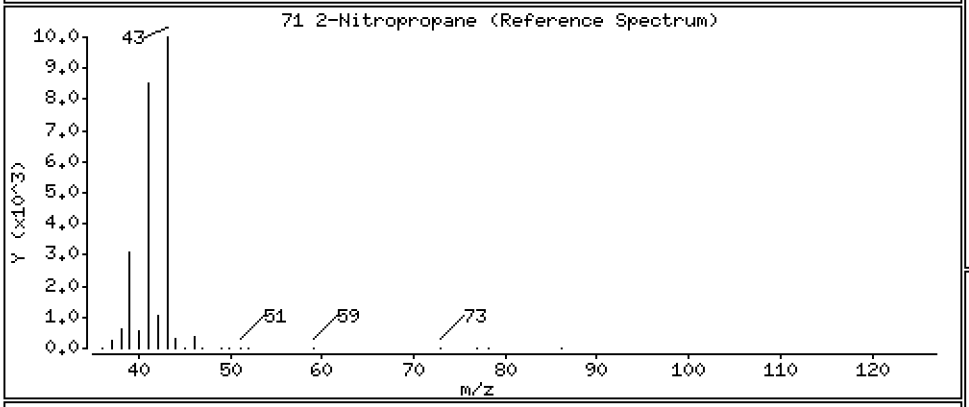
Purge Volume: 5.0 Operator: CJG

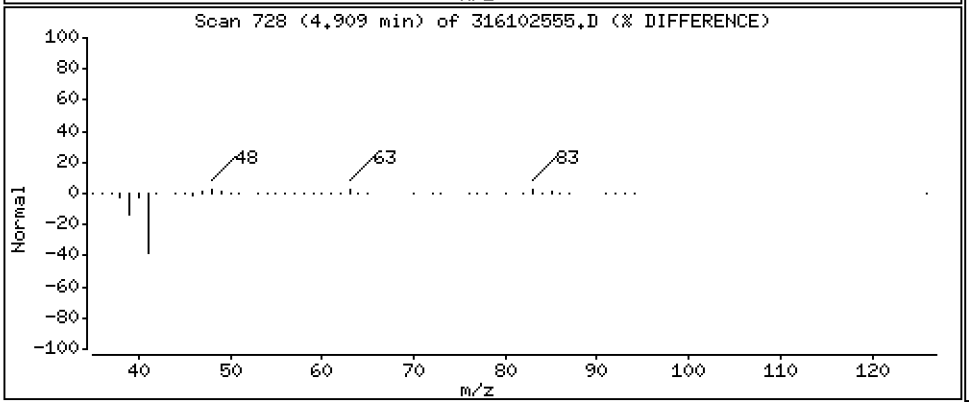
Column phase: DB-VRX Column diameter: 0.25

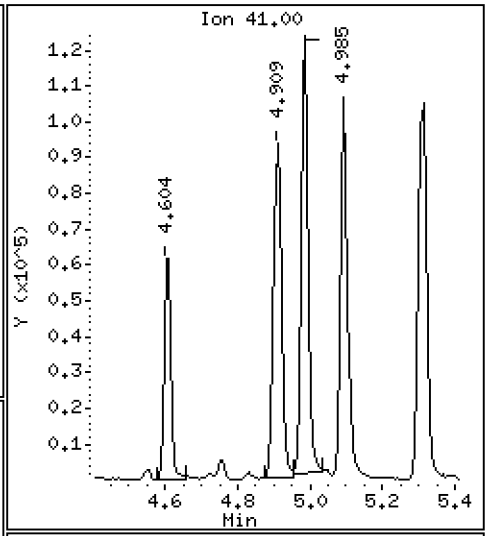
71 2-Nitropropane Concentration: 89.5531 ug/L

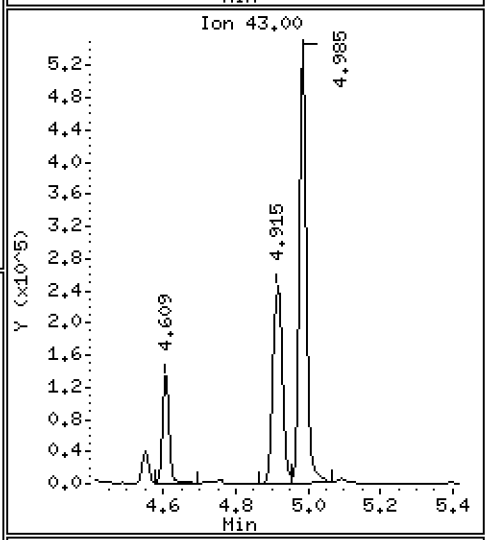


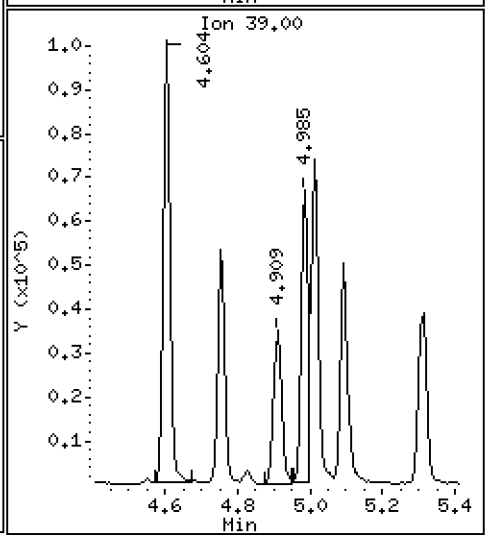












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 80

Date : 25-OCT-2016 23:28

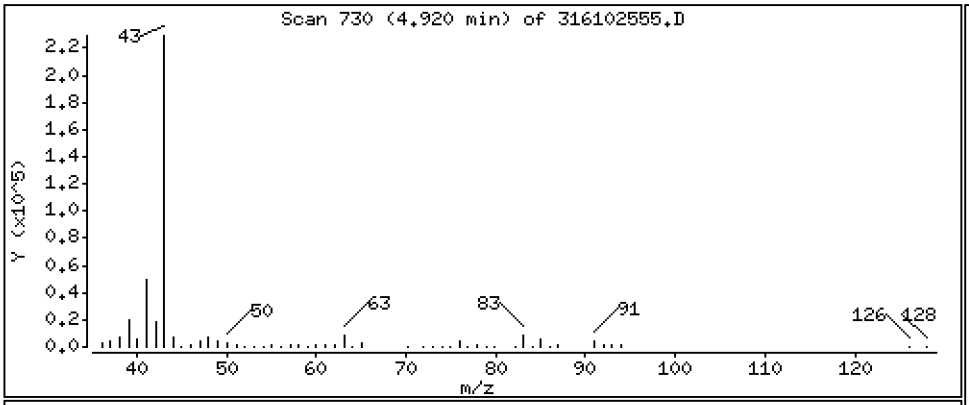
Client ID: LCS for HBN 174258 Instrument: ms03.i

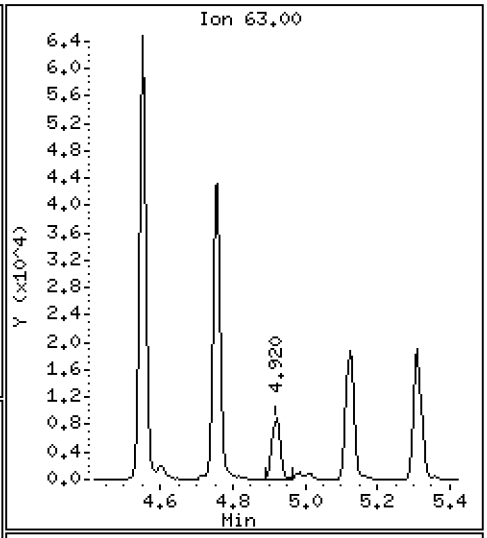
Sample Info: 2429302;;1;3;;LCS;1;

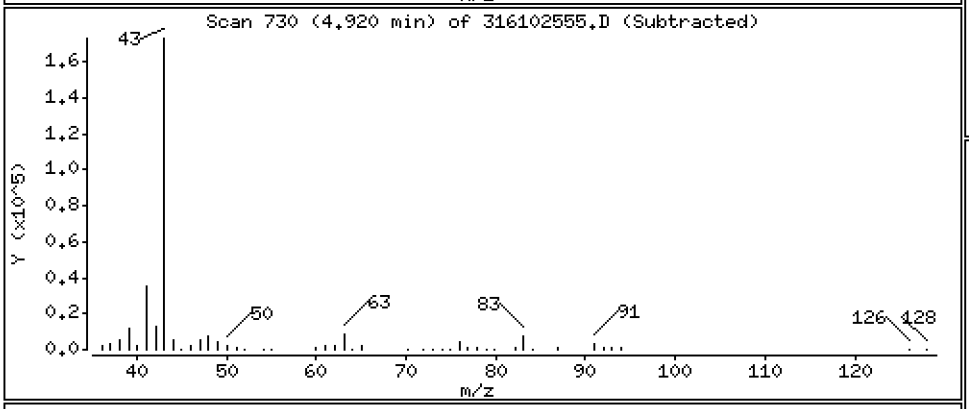
Purge Volume: 5.0 Operator: CJG

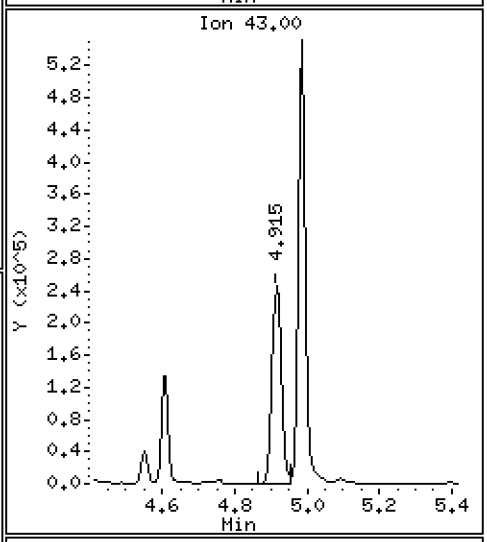
Column phase: DB-VRX Column diameter: 0.25

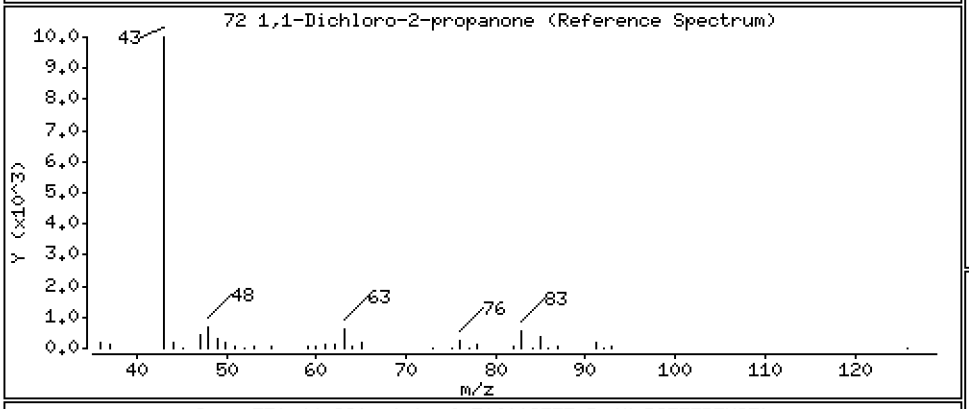
72 1,1-Dichloro-2-propanone Concentration: 94.0961 ug/L

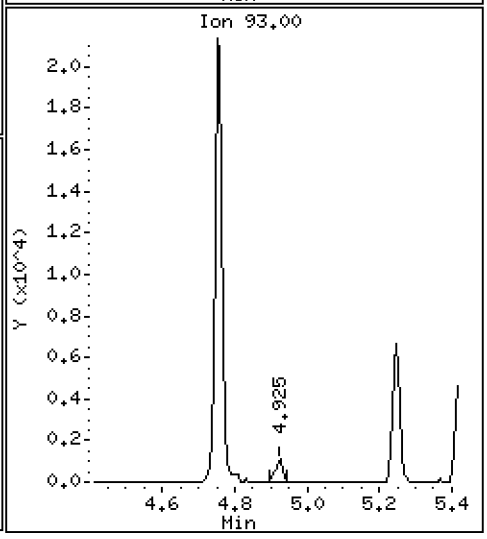


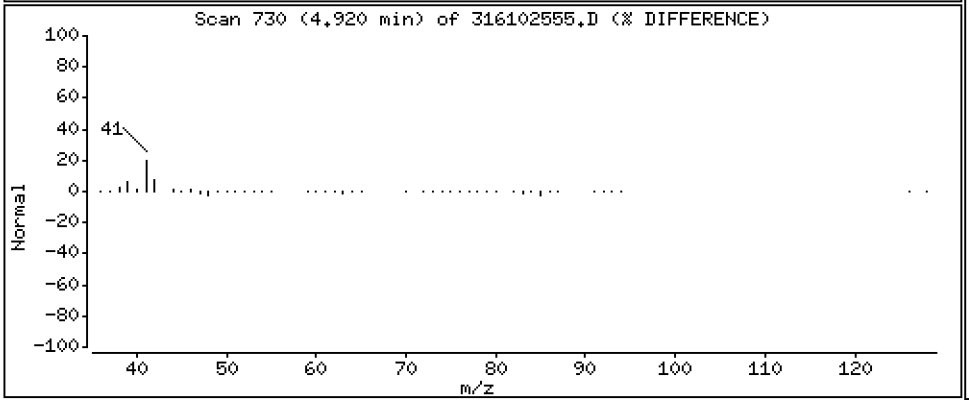












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 81

Date : 25-OCT-2016 23:28

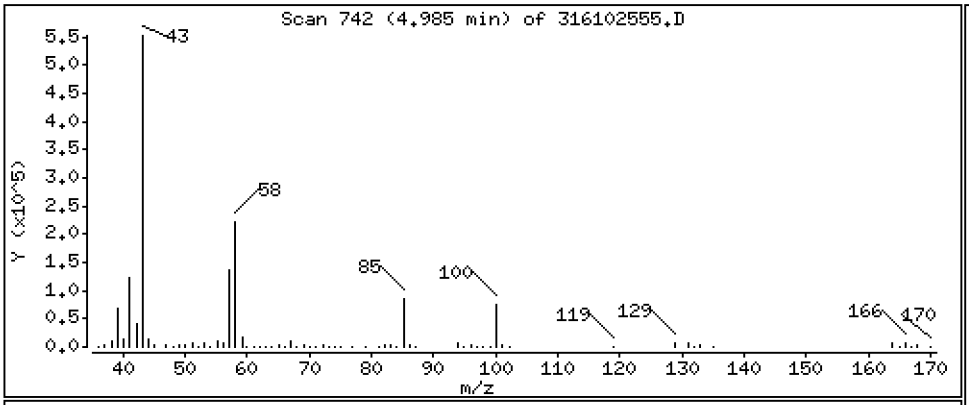
Client ID: LCS for HBN 174258 Instrument: ms03.i

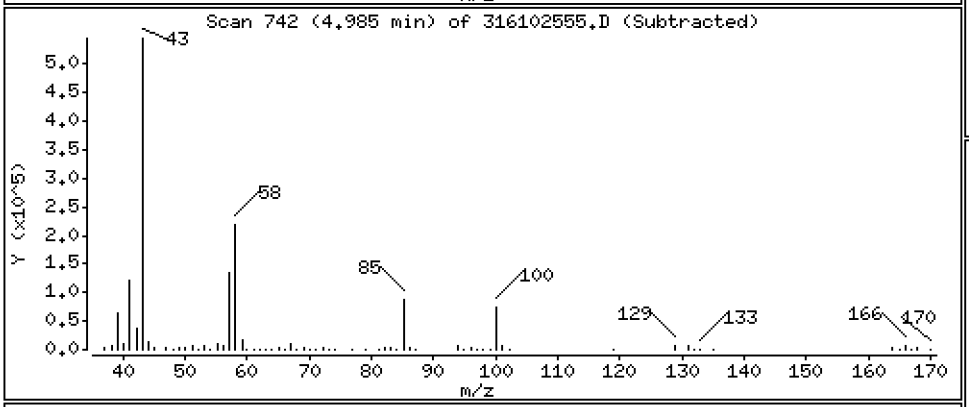
Sample Info: 2429302;;1;3;;LCS;1;

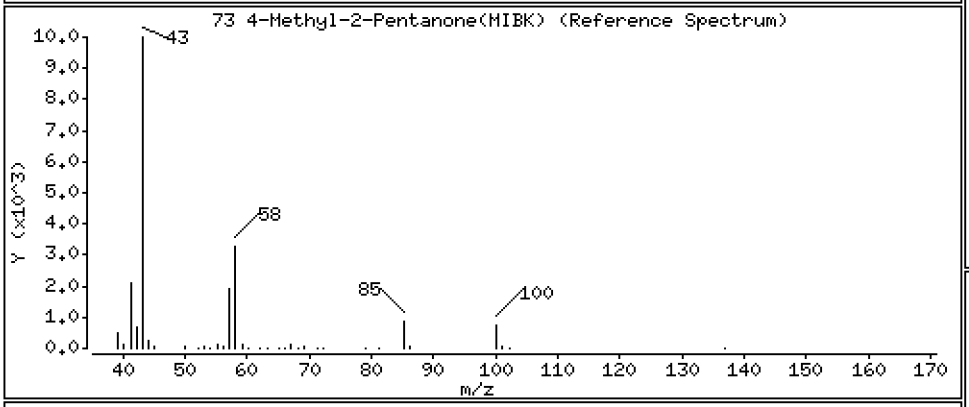
Purge Volume: 5.0 Operator: CJG

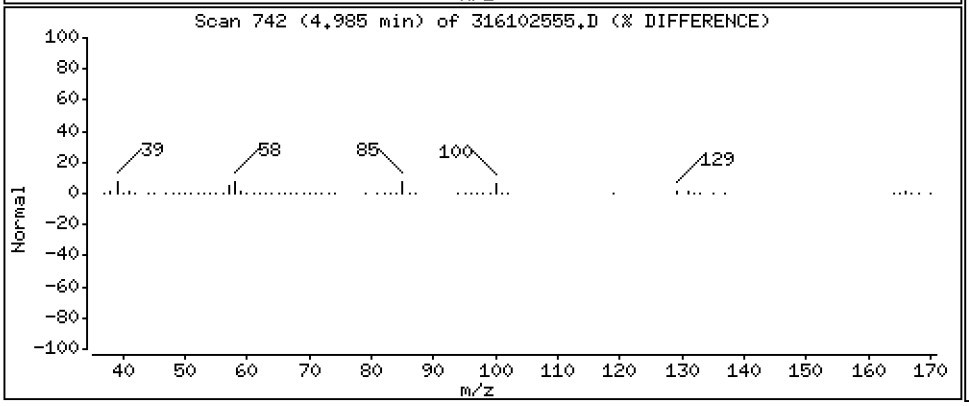
Column phase: DB-VRX Column diameter: 0.25

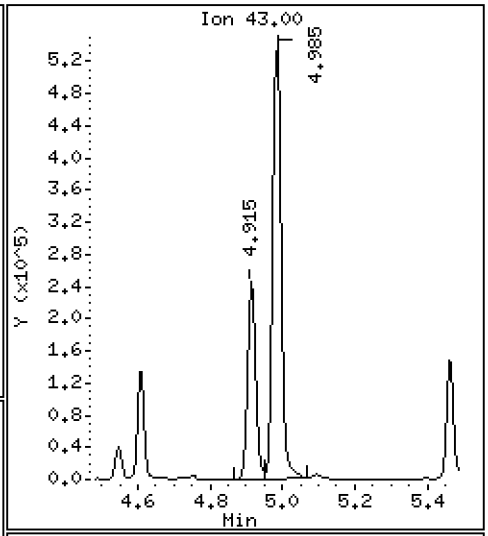
73 4-Methyl-2-Pentanone(MIBK) Concentration: 108.500 ug/L

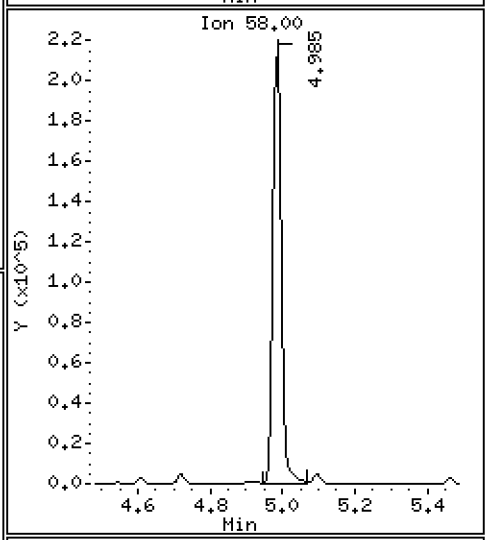


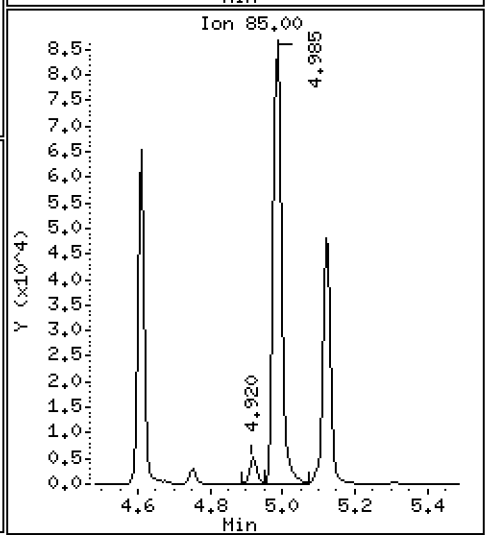












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 82

Date : 25-OCT-2016 23:28

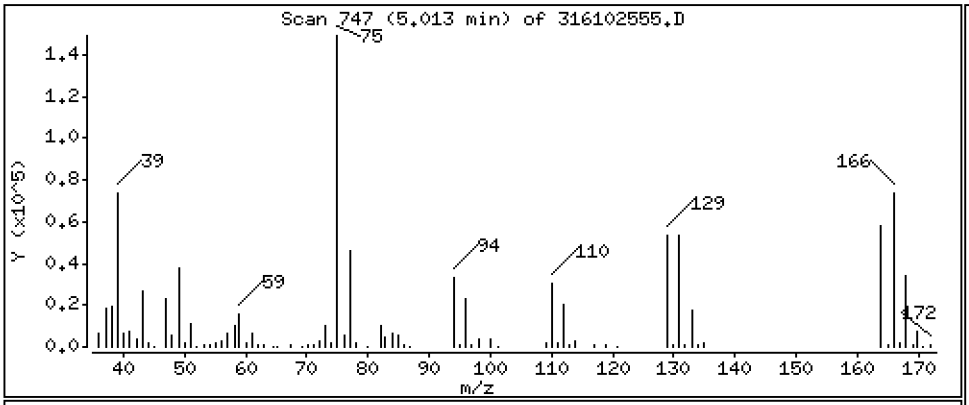
Client ID: LCS for HBN 174258 Instrument: ms03.i

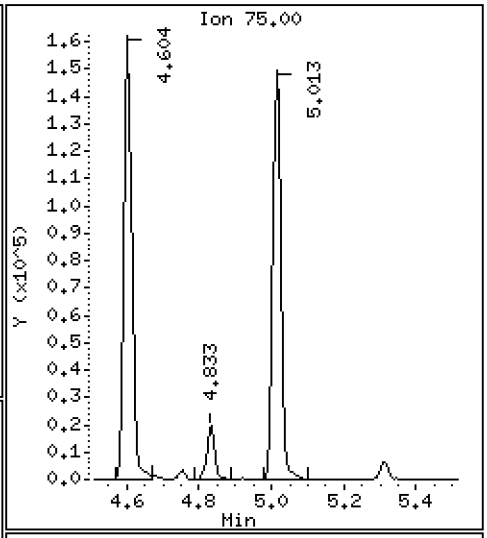
Sample Info: 2429302;;1;3;;LCS;1;

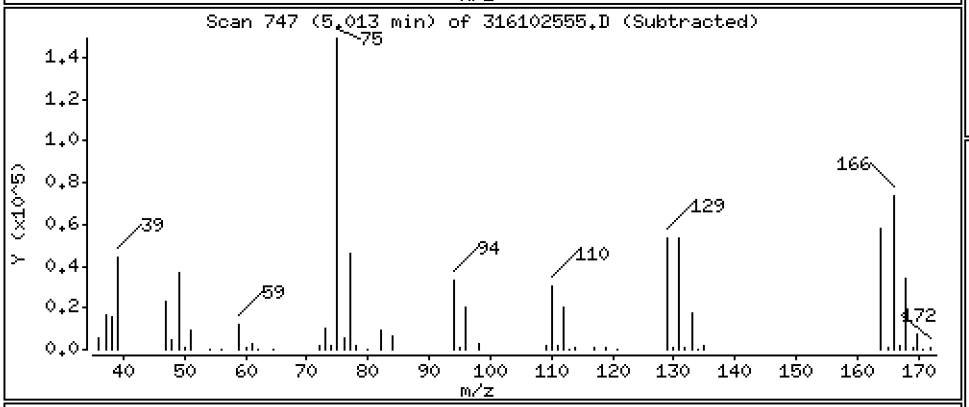
Purge Volume: 5.0 Operator: CJG

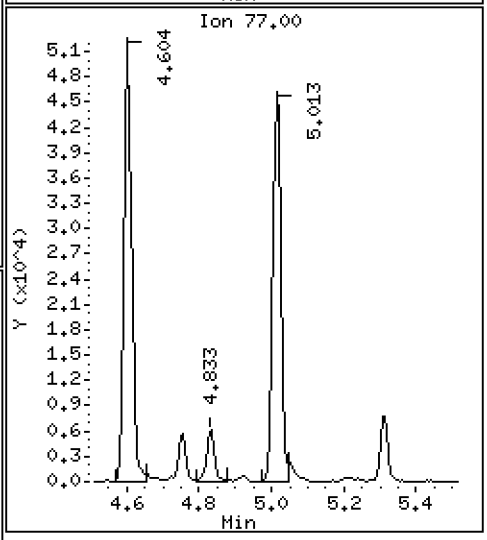
Column phase: DB-VRX Column diameter: 0.25

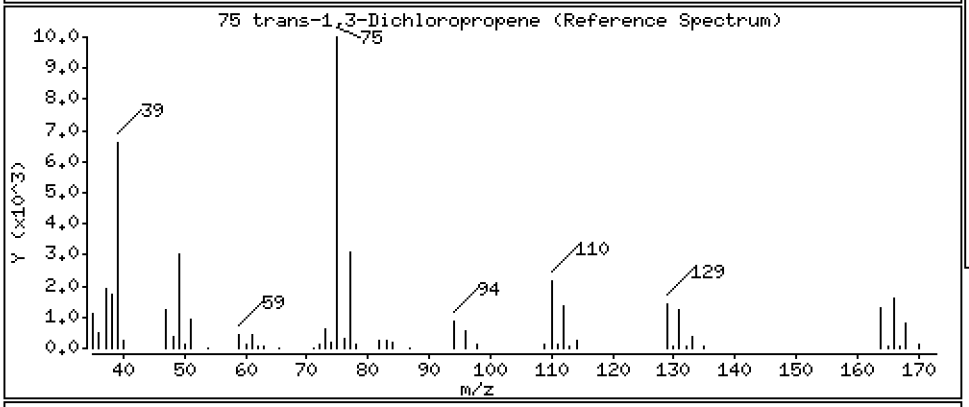
75 trans-1,3-Dichloropropene Concentration: 20.4038 ug/L

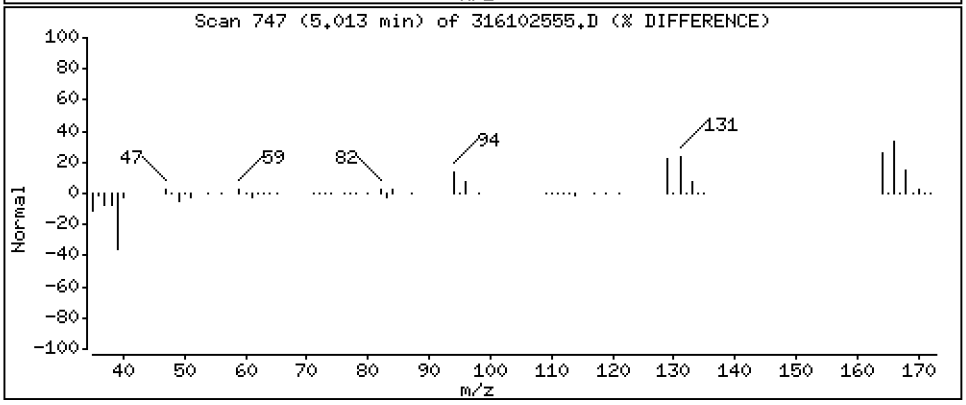












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 83

Date : 25-OCT-2016 23:28

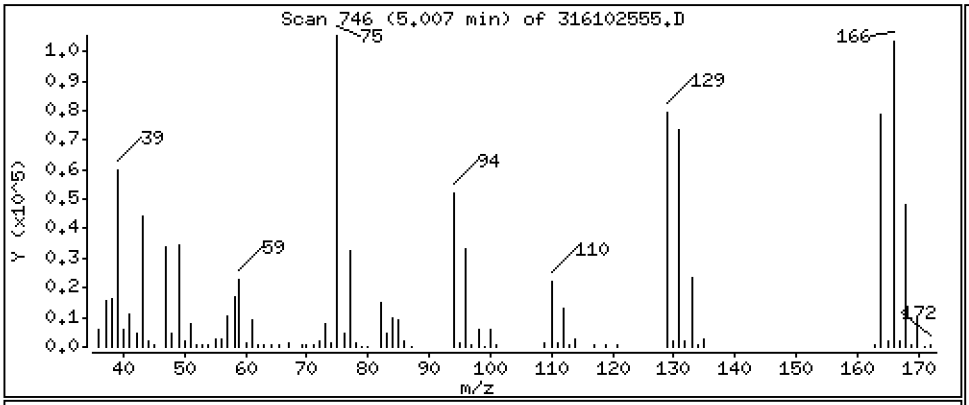
Client ID: LCS for HBN 174258 Instrument: ms03.i

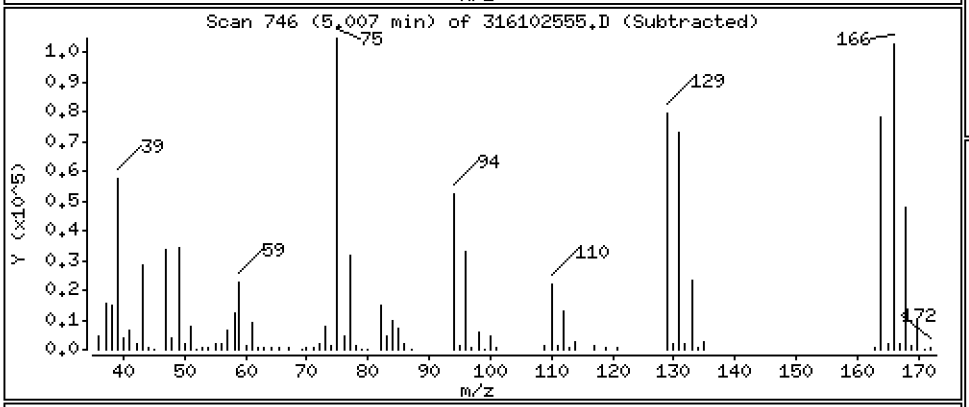
Sample Info: 2429302;;1;3;;LCS;1;

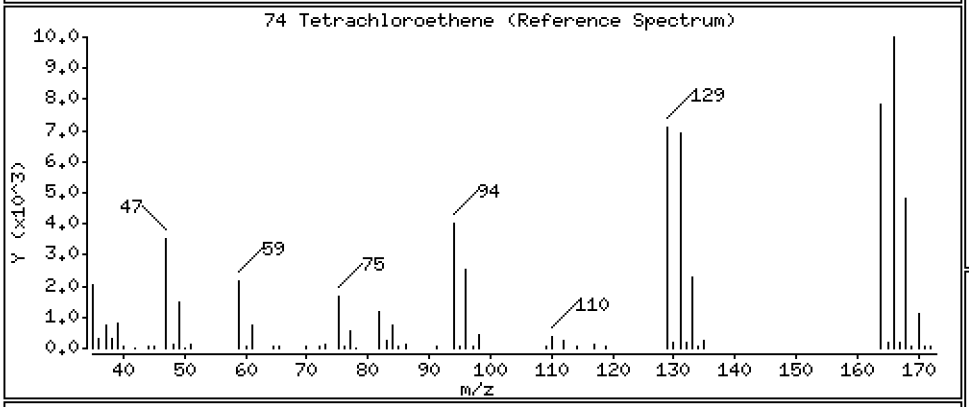
Purge Volume: 5.0 Operator: CJG

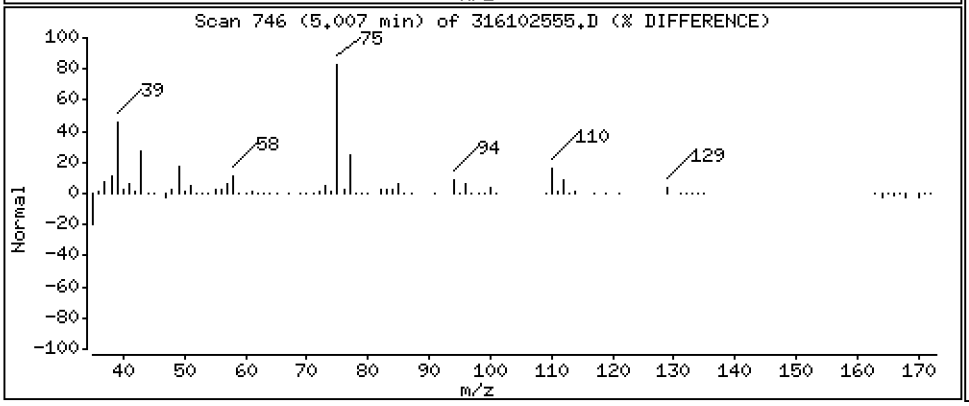
Column phase: DB-VRX Column diameter: 0.25

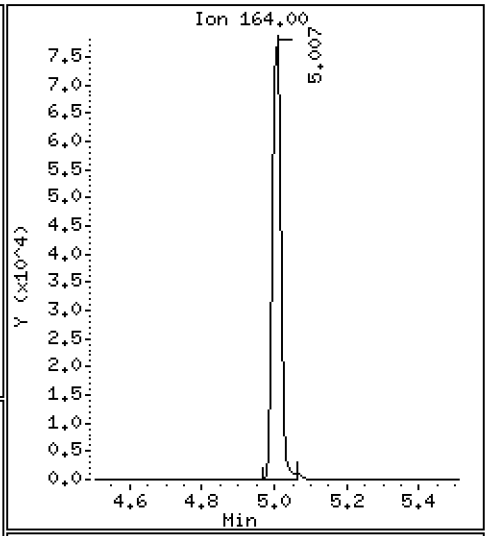
74 Tetrachloroethene Concentration: 22.3030 ug/L

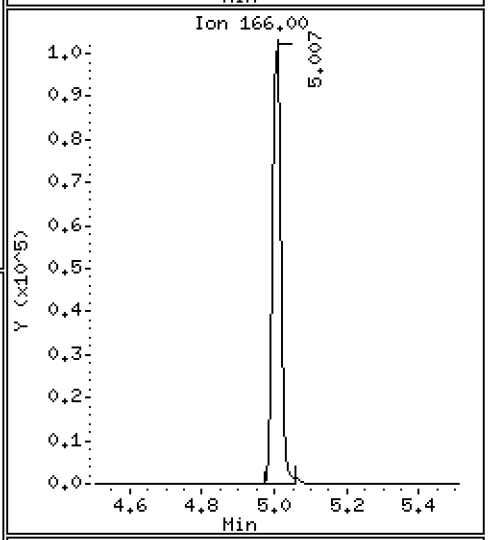


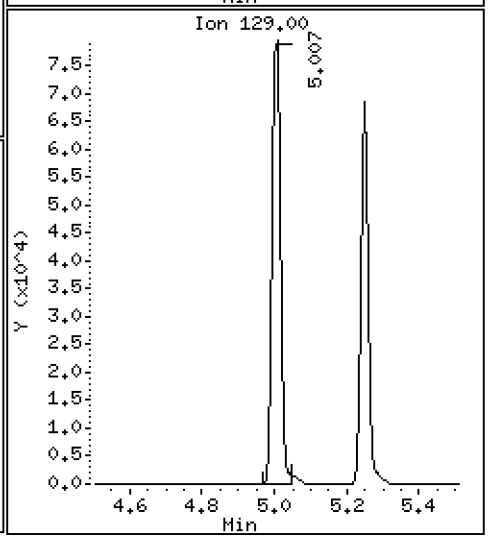












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 84

Date : 25-OCT-2016 23:28

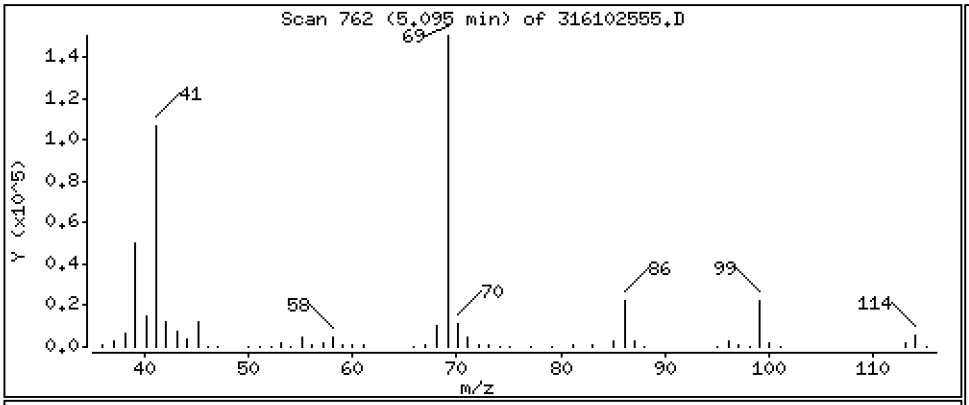
Client ID: LCS for HBN 174258 Instrument: ms03.i

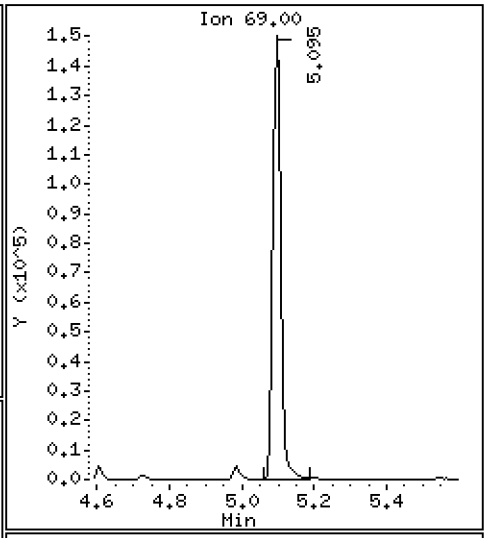
Sample Info: 2429302;;1;3;;LCS;1;

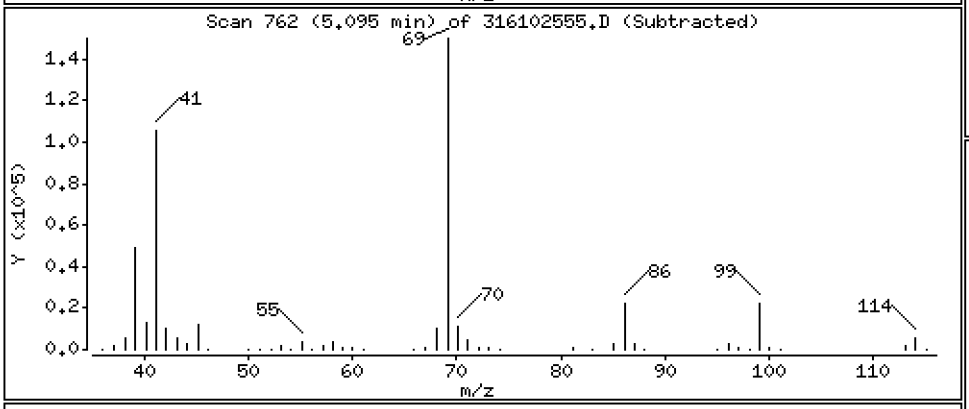
Purge Volume: 5.0 Operator: CJG

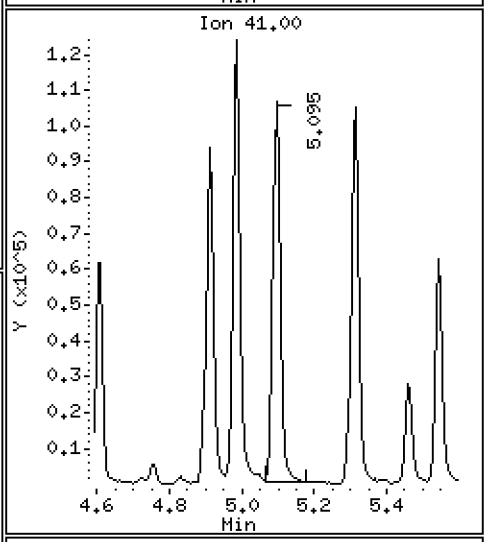
Column phase: DB-VRX Column diameter: 0.25

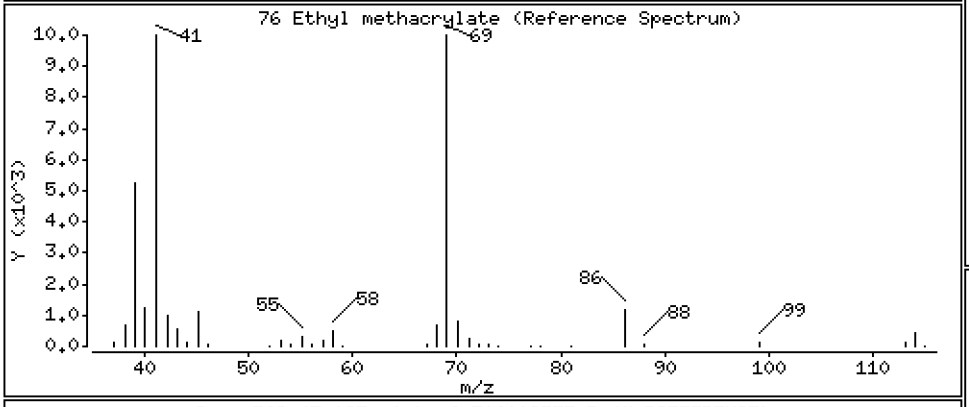
76 Ethyl methacrylate Concentration: 21.5313 ug/L

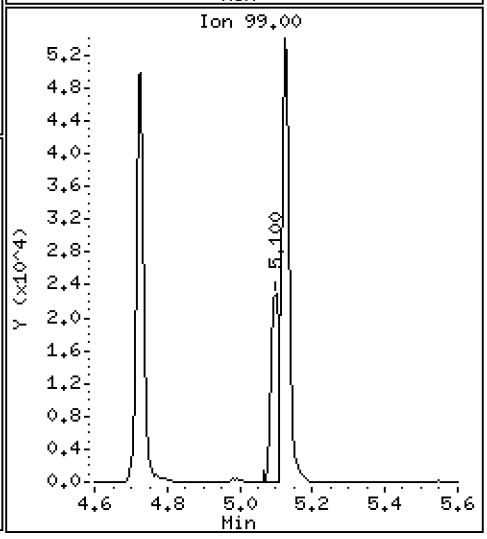


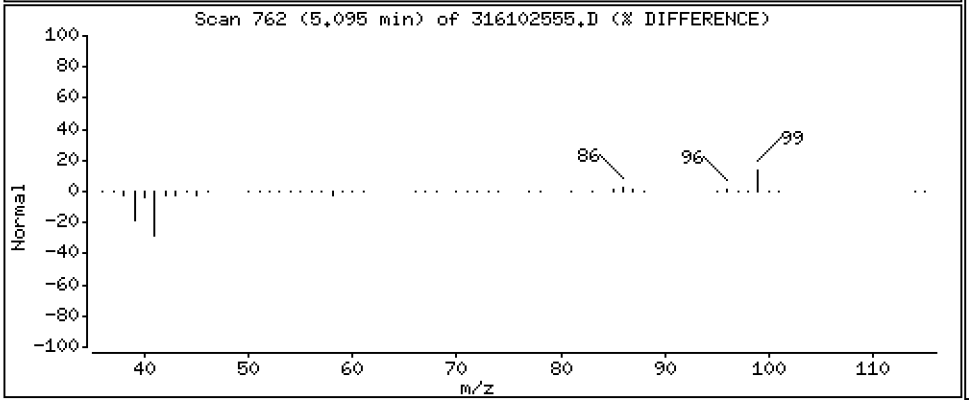












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 85

Date : 25-OCT-2016 23:28

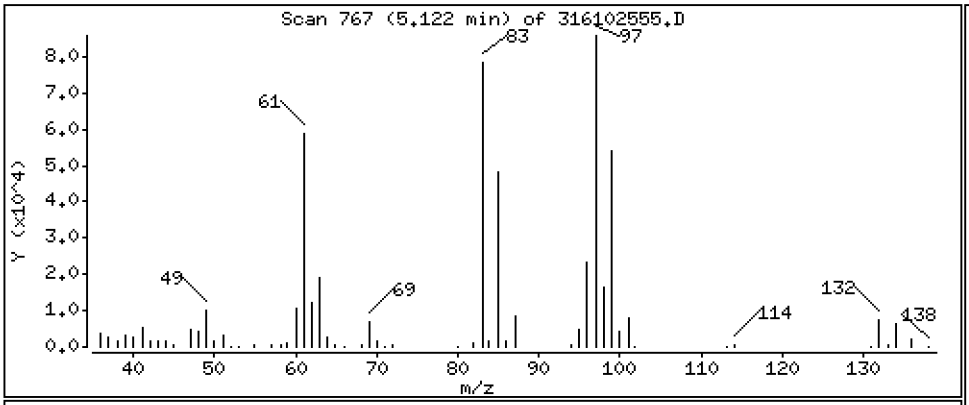
Client ID: LCS for HBN 174258 Instrument: ms03.i

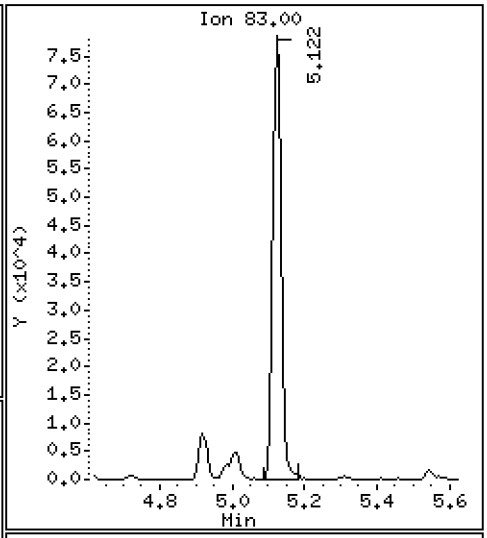
Sample Info: 2429302;;1;3;;LCS;1;

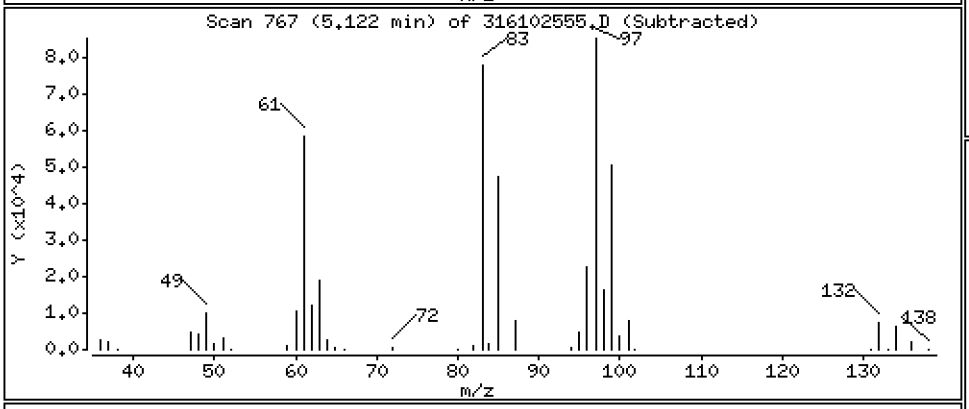
Purge Volume: 5.0 Operator: CJG

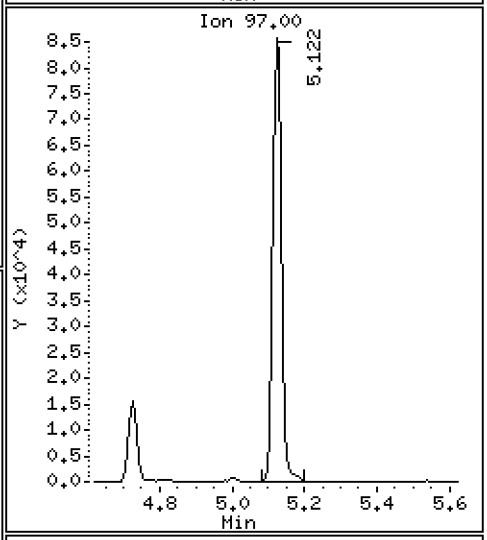
Column phase: DB-VRX Column diameter: 0.25

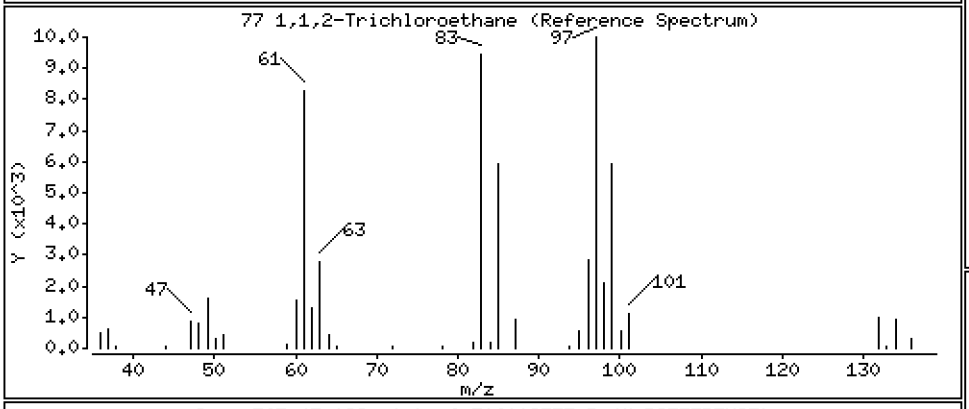
77 1,1,2-Trichloroethane Concentration: 18.8741 ug/L

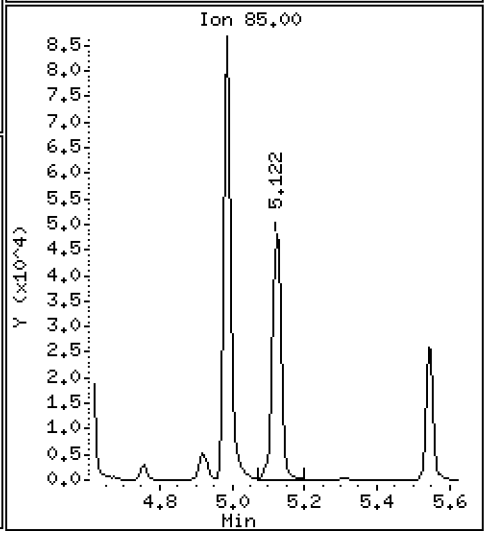


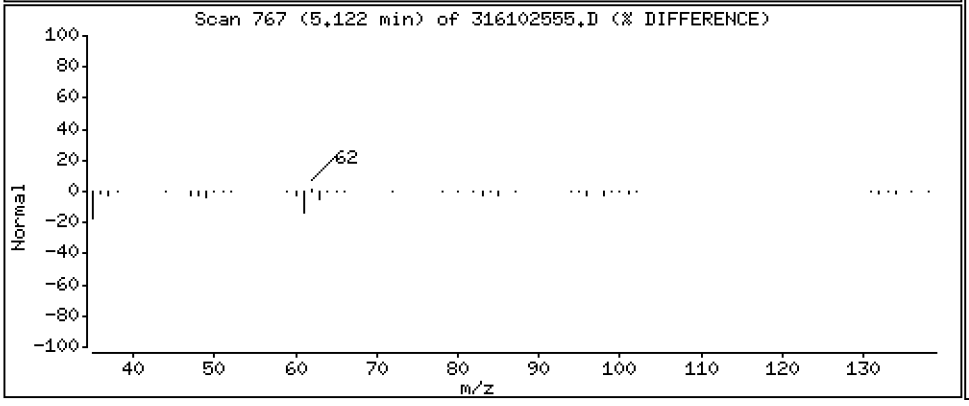












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 86

Date : 25-OCT-2016 23:28

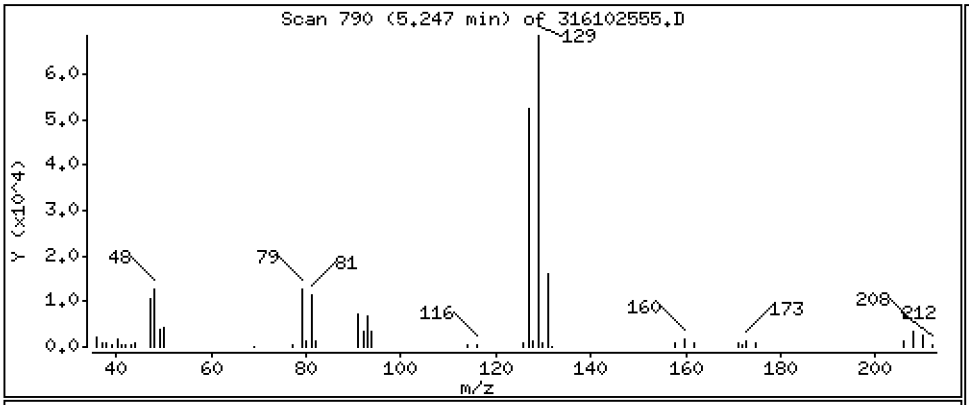
Client ID: LCS for HBN 174258 Instrument: ms03.i

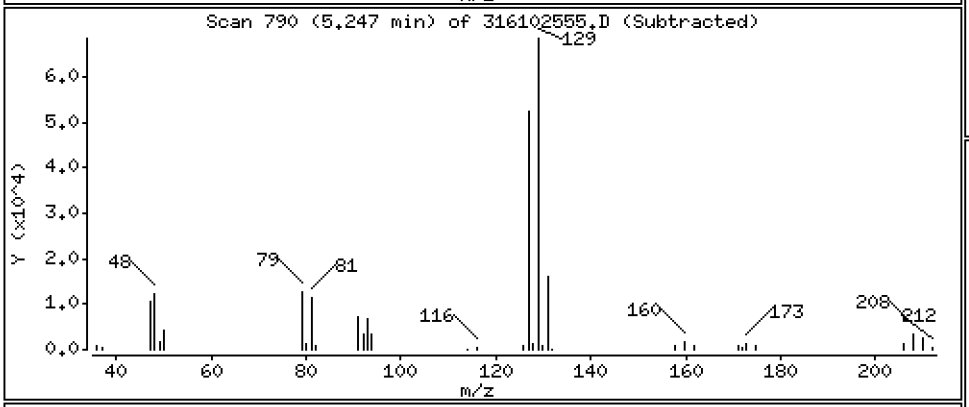
Sample Info: 2429302;;1;3;;LCS;1;

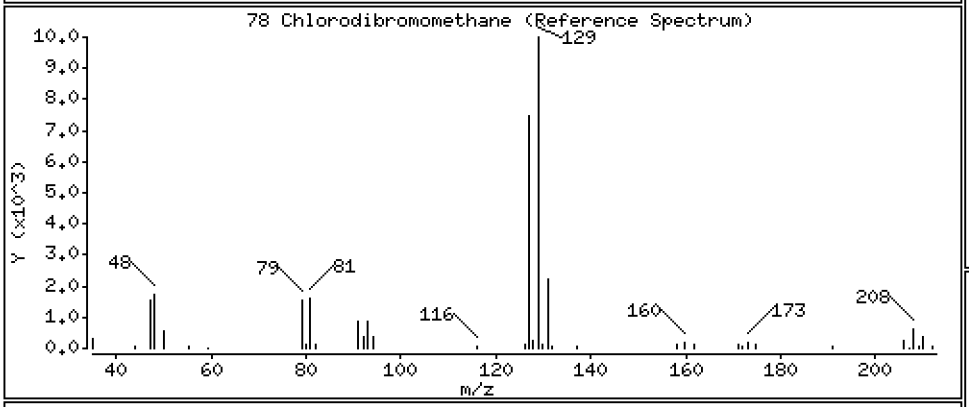
Purge Volume: 5.0 Operator: CJG

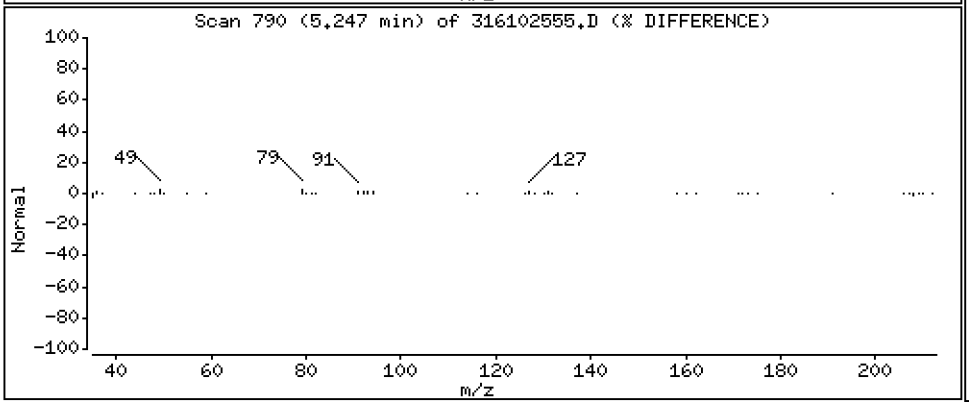
Column phase: DB-VRX Column diameter: 0.25

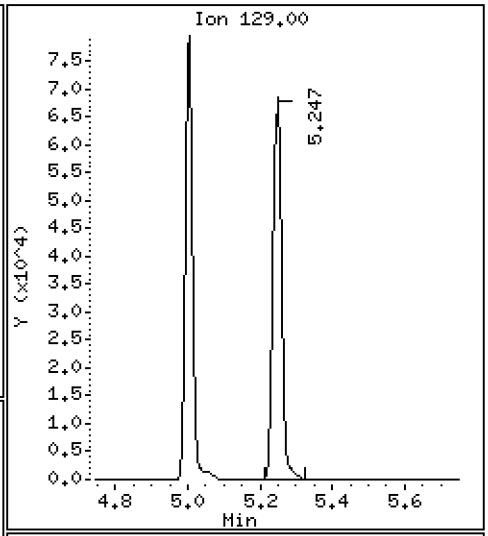
78 Chlorodibromomethane Concentration: 18.5142 ug/L

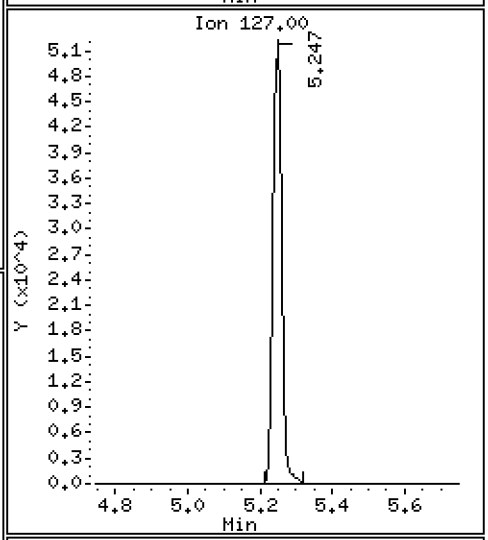


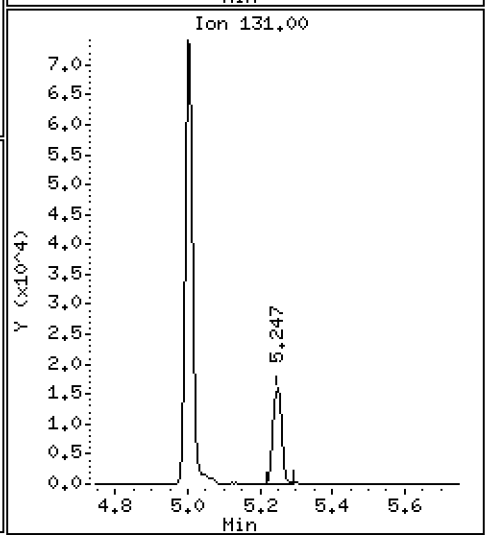












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 87

Date : 25-OCT-2016 23:28

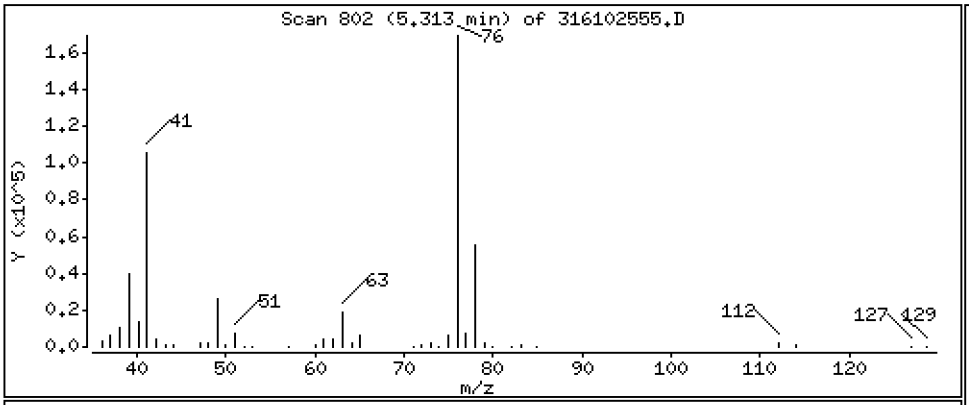
Client ID: LCS for HBN 174258 Instrument: ms03.i

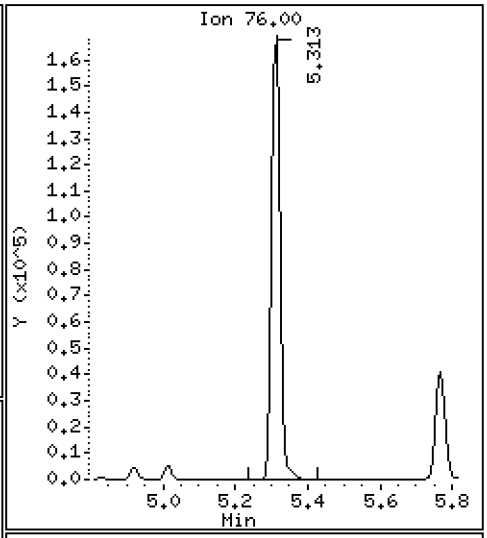
Sample Info: 2429302;;1;3;;LCS;1;

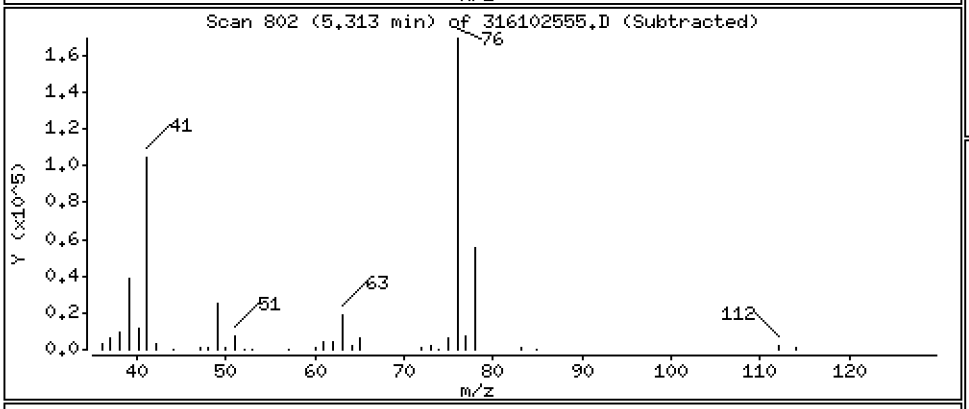
Purge Volume: 5.0 Operator: CJG

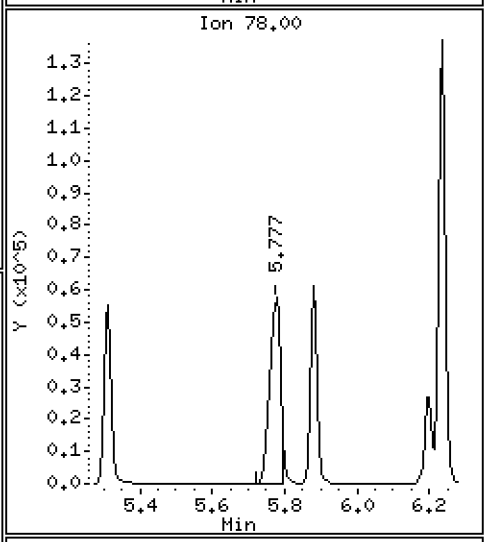
Column phase: DB-VRX Column diameter: 0.25

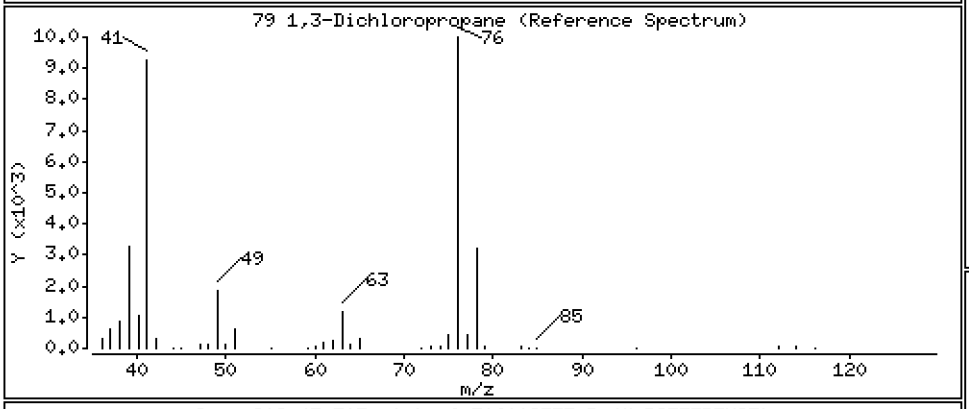
79 1,3-Dichloropropane Concentration: 18.8305 ug/L

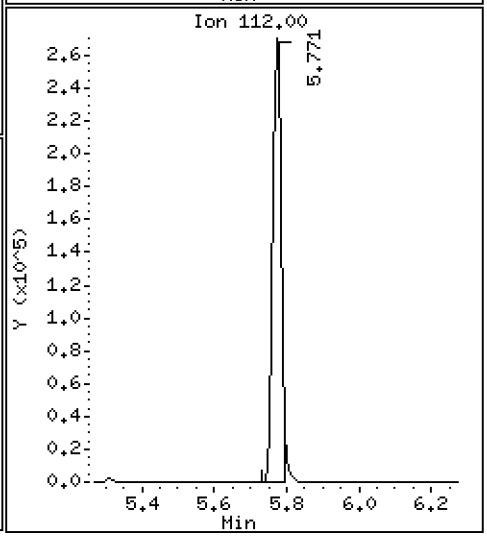


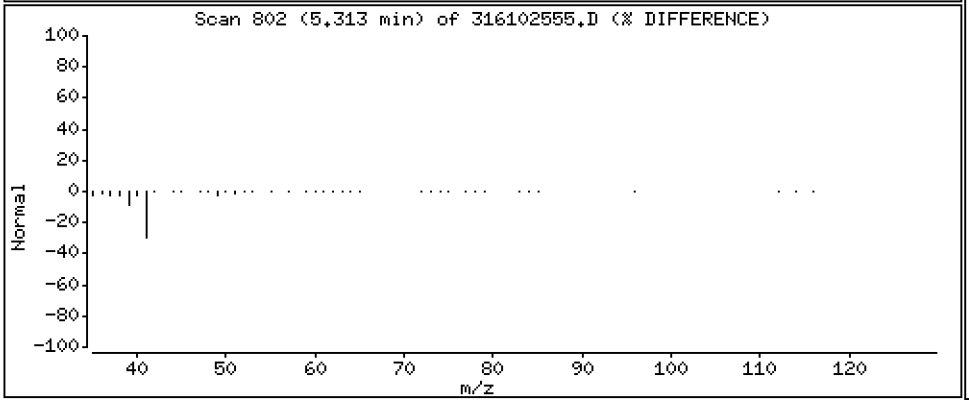












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 88

Date : 25-OCT-2016 23:28

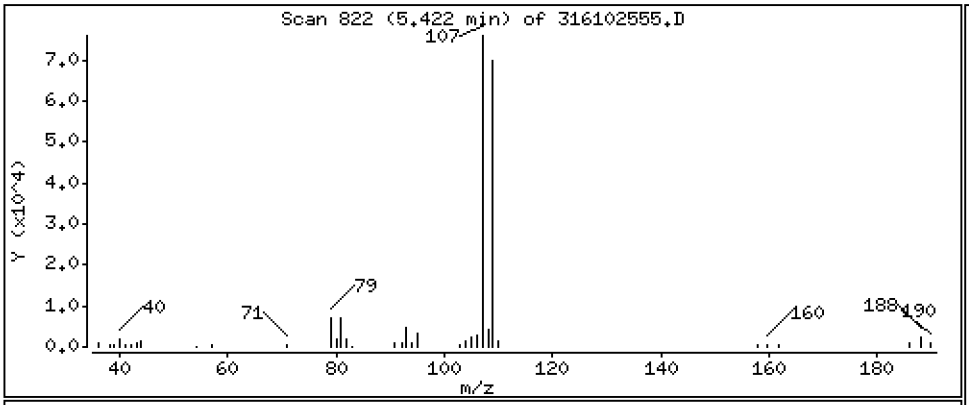
Client ID: LCS for HBN 174258 Instrument: ms03.i

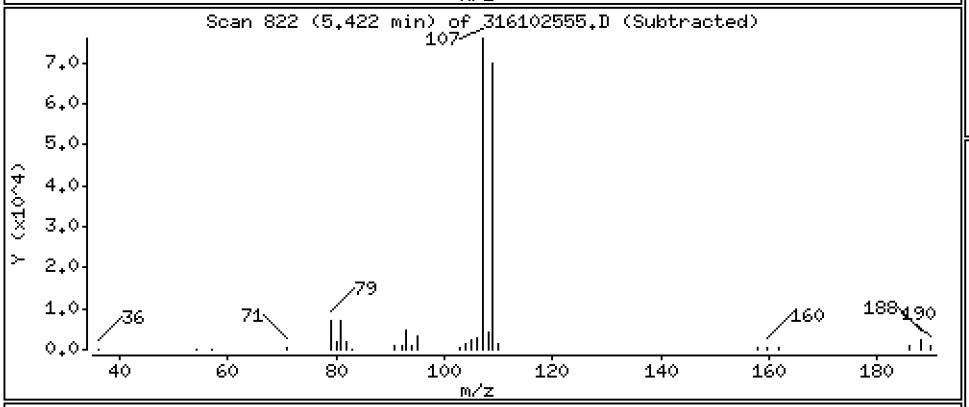
Sample Info: 2429302;;1;3;;LCS;1;

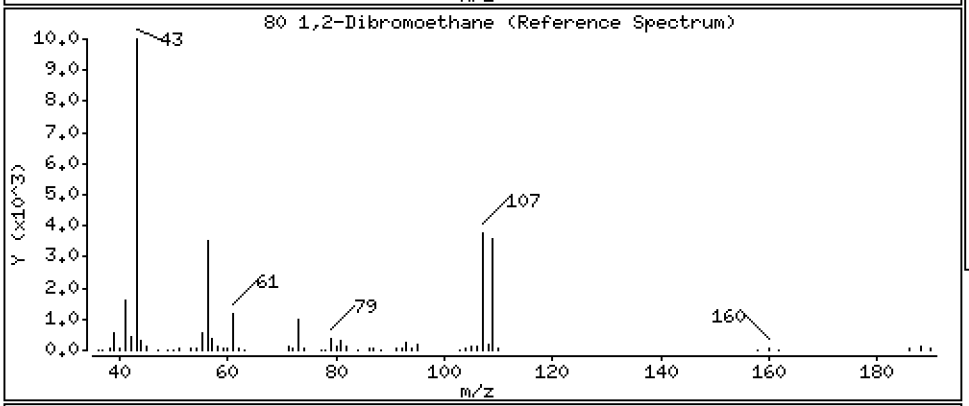
Purge Volume: 5.0 Operator: CJG

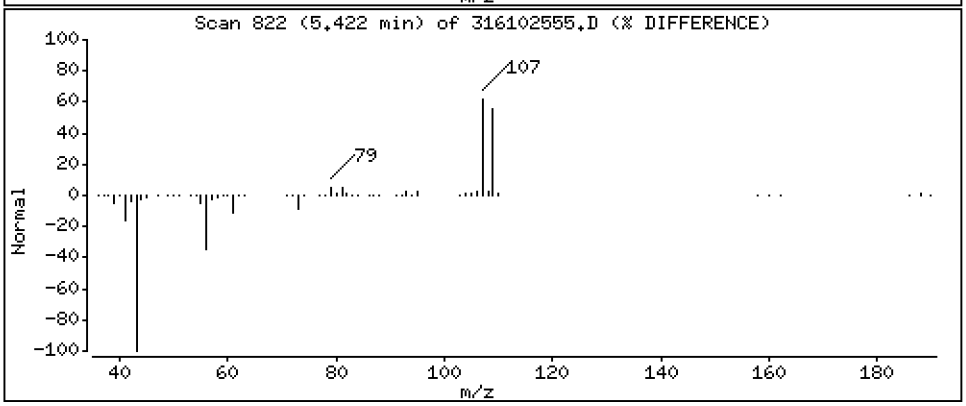
Column phase: DB-VRX Column diameter: 0.25

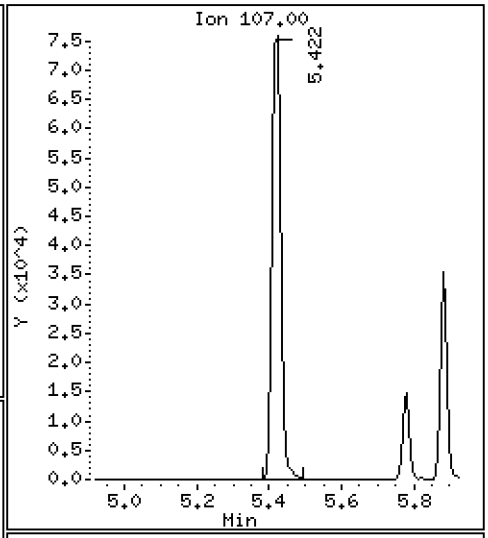
80 1,2-Dibromoethane Concentration: 19.0452 ug/L

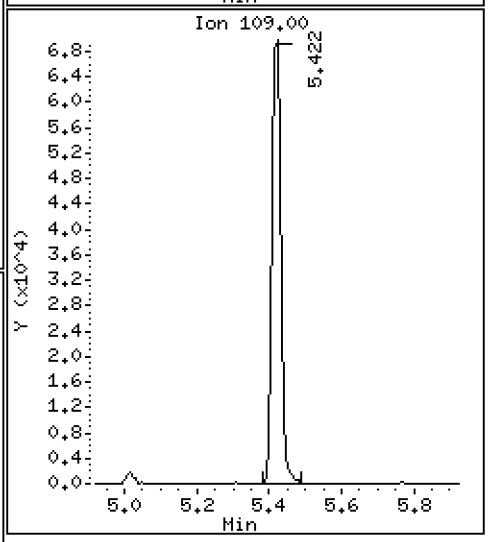












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 89

Date : 25-OCT-2016 23:28

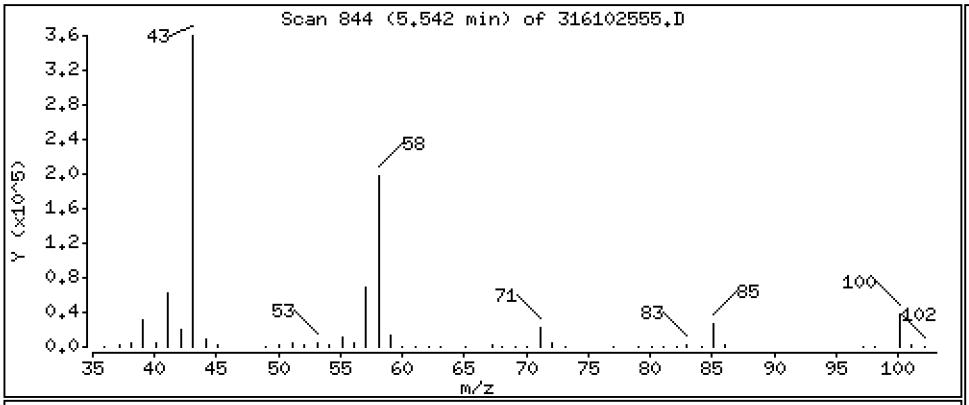
Client ID: LCS for HBN 174258 Instrument: ms03.i

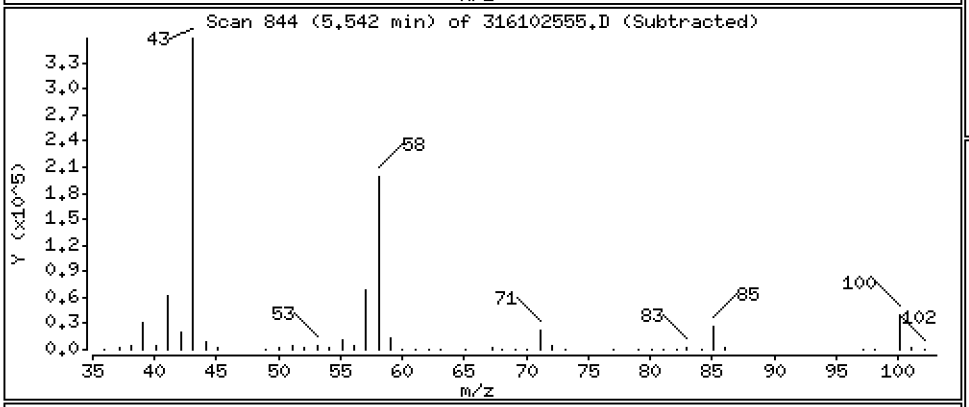
Sample Info: 2429302;;1;3;;LCS;1;

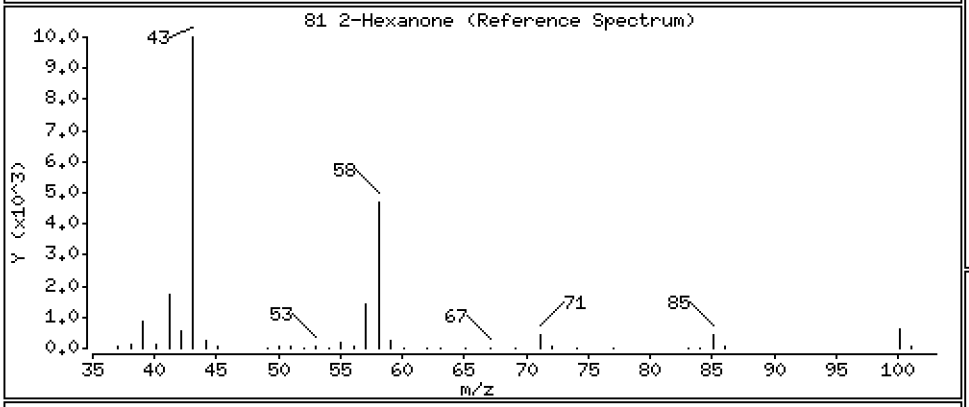
Purge Volume: 5.0 Operator: CJG

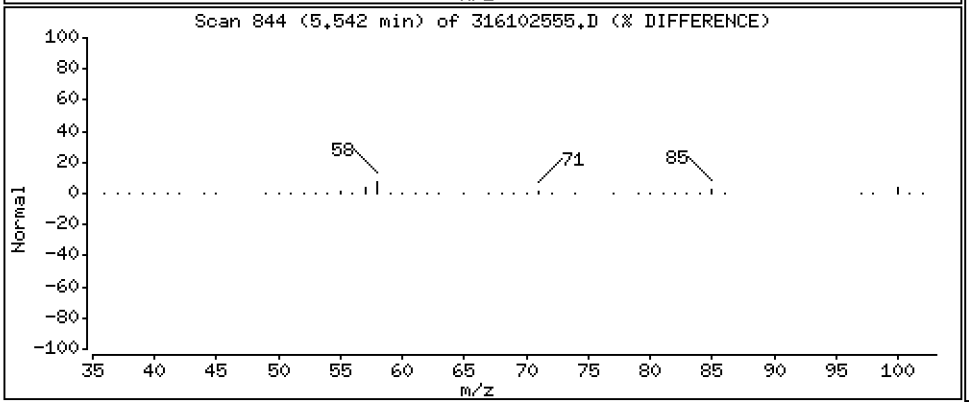
Column phase: DB-VRX Column diameter: 0.25

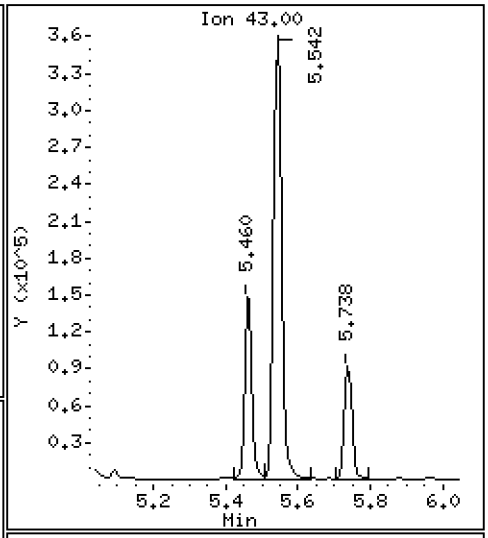
81 2-Hexanone Concentration: 110.371 ug/L

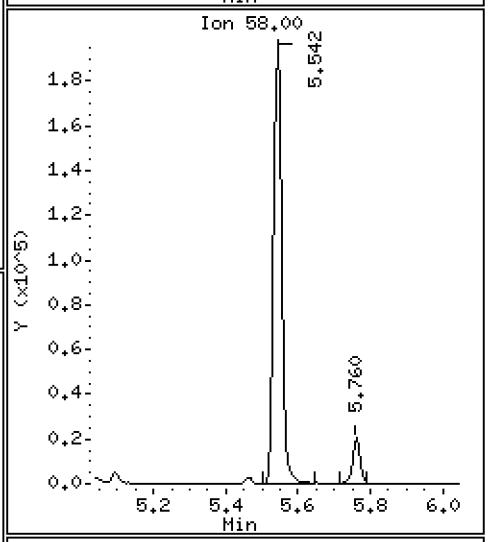


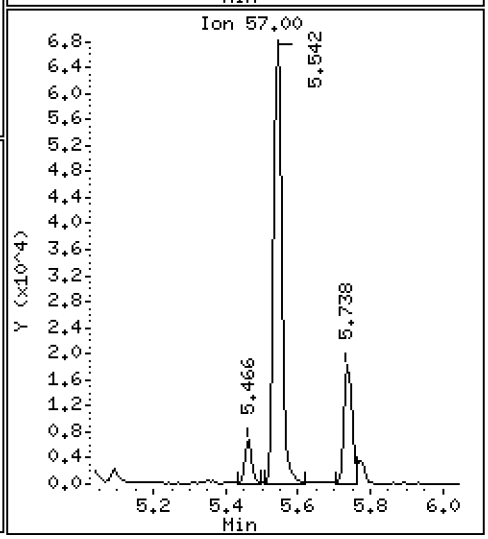












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 90

Date : 25-OCT-2016 23:28

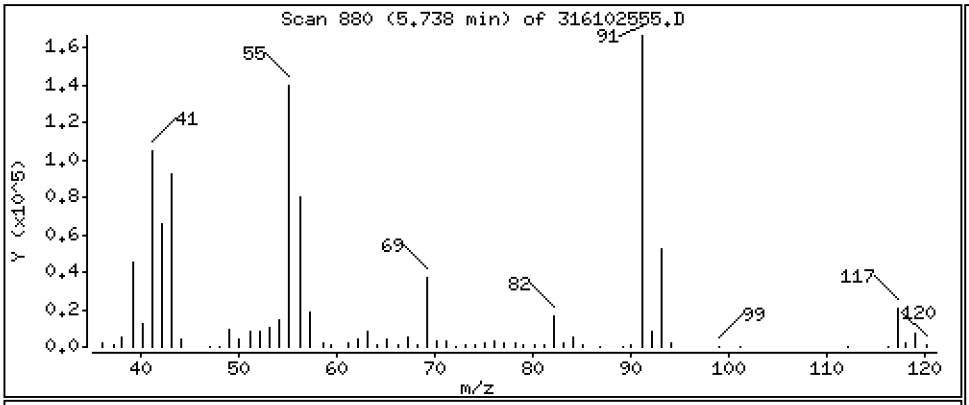
Client ID: LCS for HBN 174258 Instrument: ms03.i

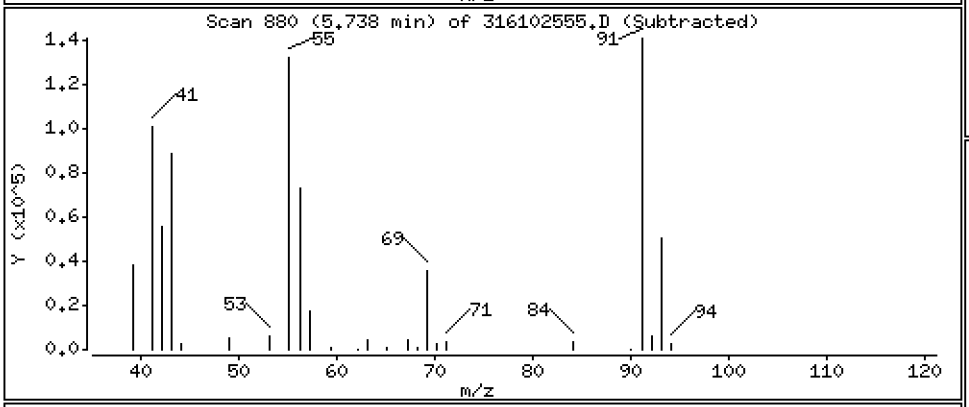
Sample Info: 2429302;;1;3;;LCS;1;

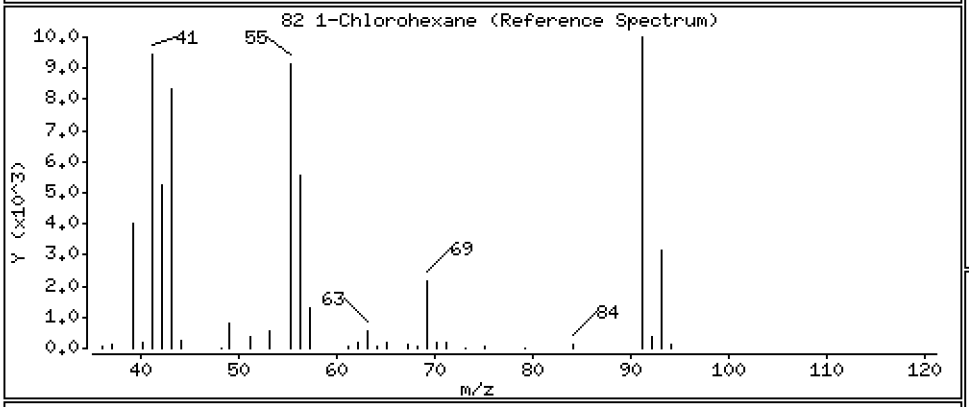
Purge Volume: 5.0 Operator: CJG

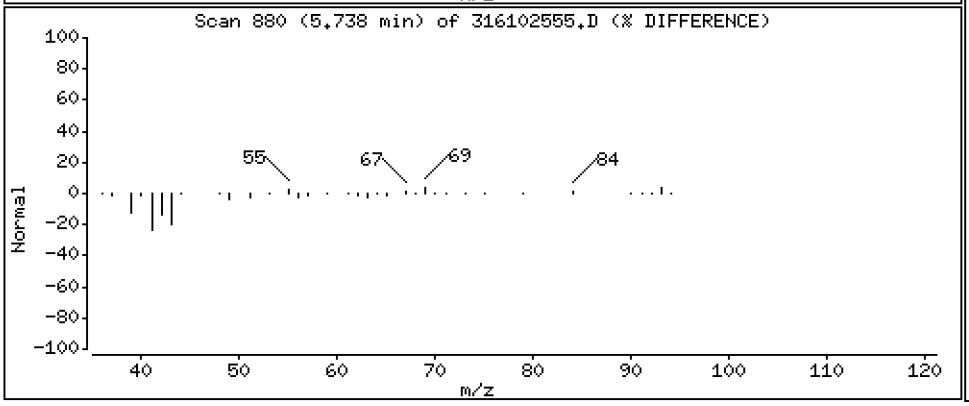
Column phase: DB-VRX Column diameter: 0.25

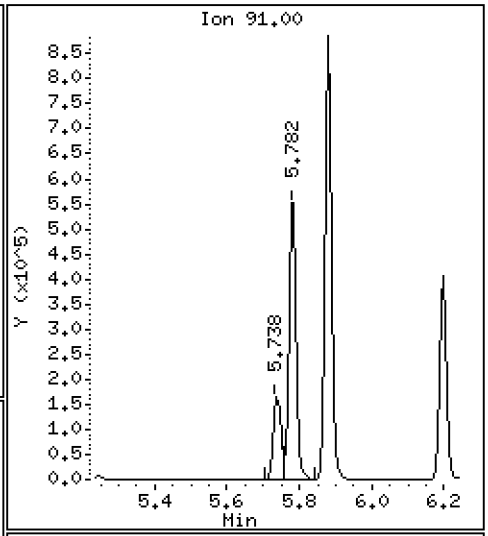
82 1-Chlorohexane Concentration: 20.0576 ug/L

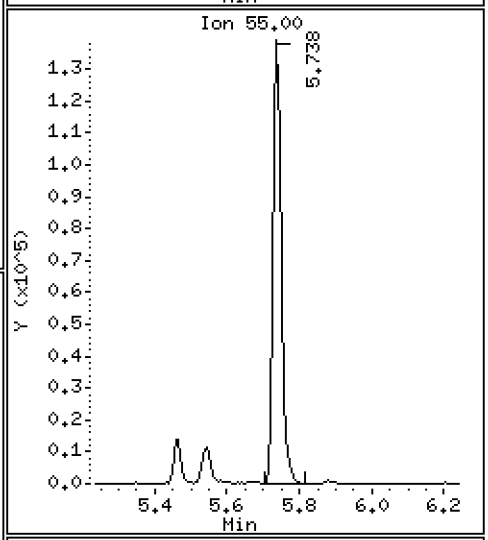


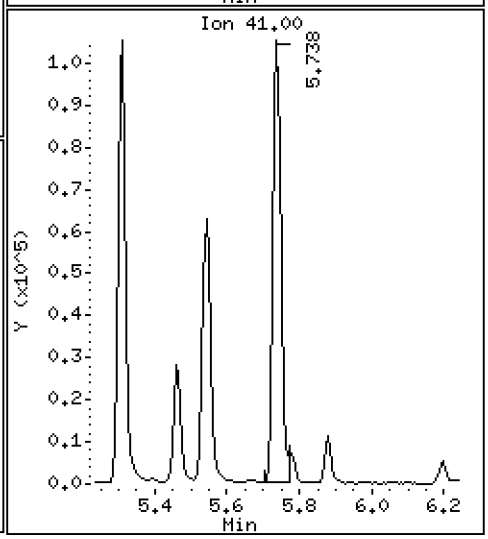












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 91

Date : 25-OCT-2016 23:28

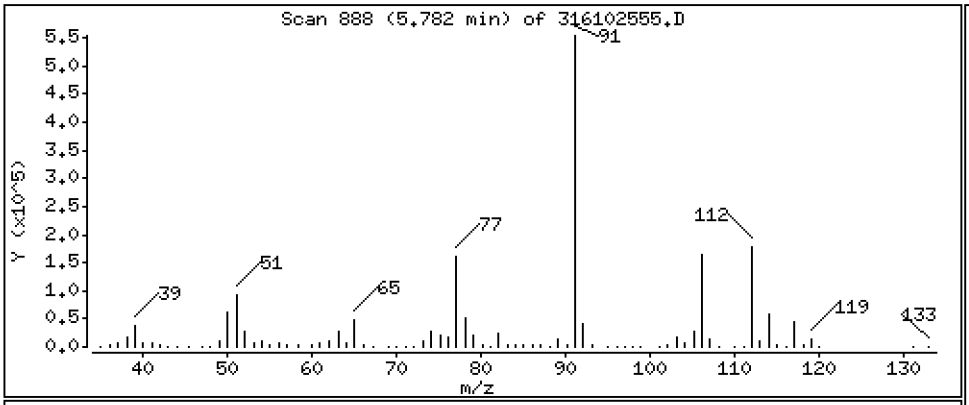
Client ID: LCS for HBN 174258 Instrument: ms03.i

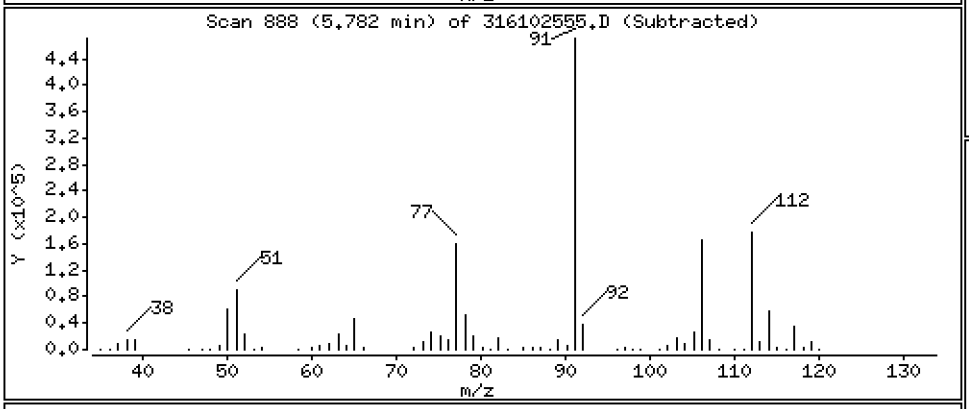
Sample Info: 2429302;;1;3;;LCS;1;

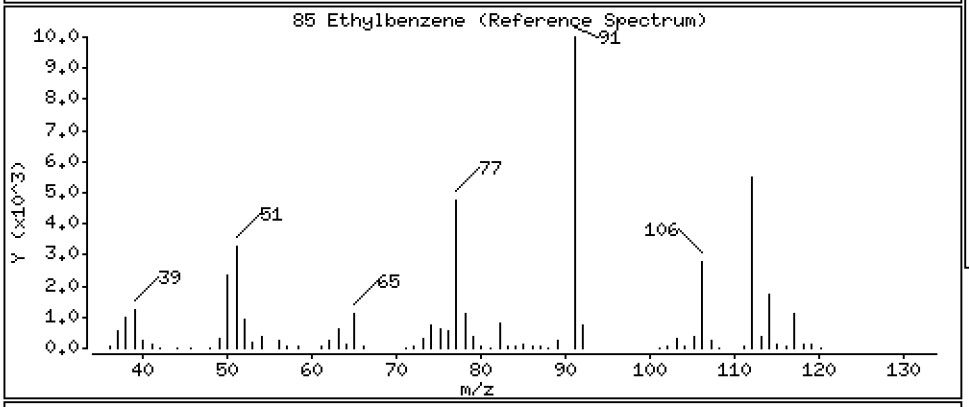
Purge Volume: 5.0 Operator: CJG

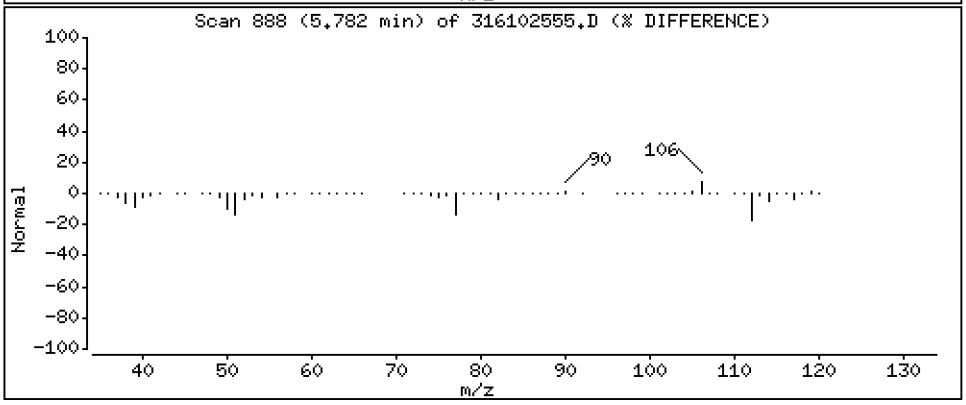
Column phase: DB-VRX Column diameter: 0.25

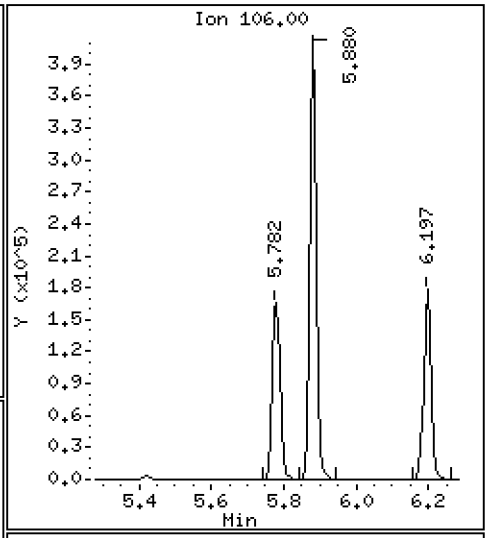
85 Ethylbenzene Concentration: 19.0851 ug/L

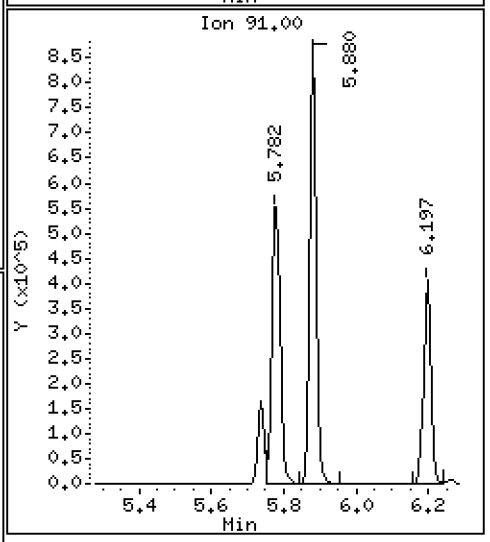












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 92

Date : 25-OCT-2016 23:28

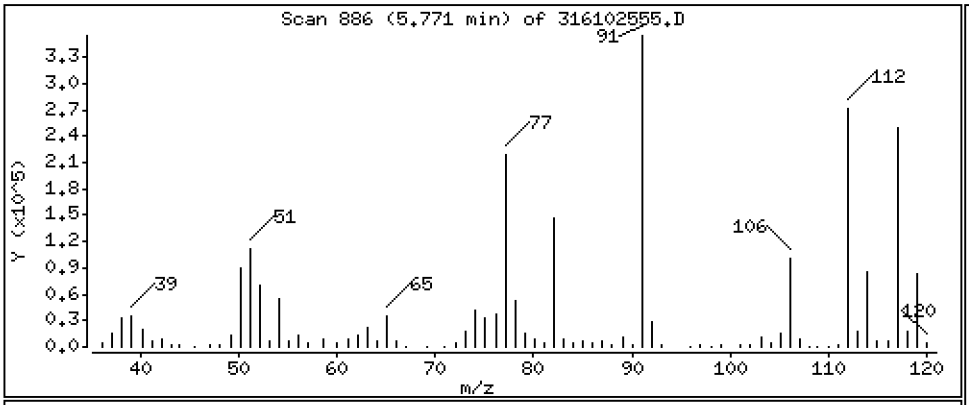
Client ID: LCS for HBN 174258 Instrument: ms03.i

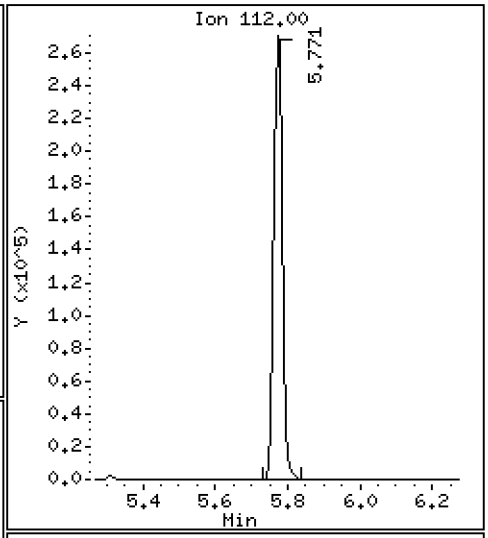
Sample Info: 2429302;;1;3;;LCS;1;

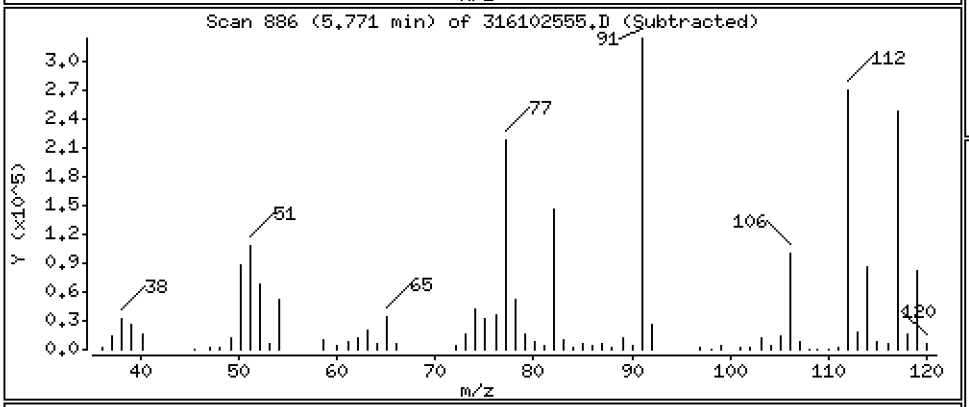
Purge Volume: 5.0 Operator: CJG

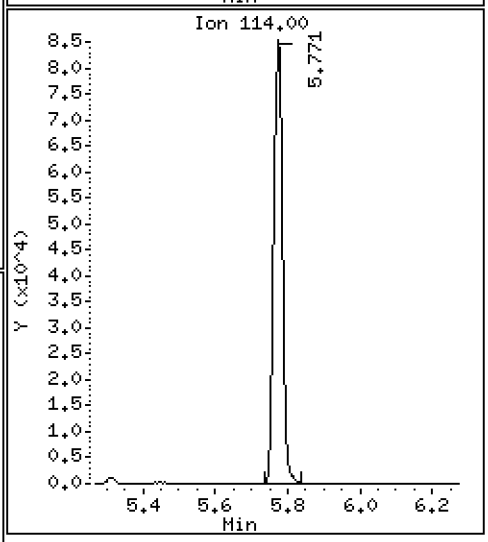
Column phase: DB-VRX Column diameter: 0.25

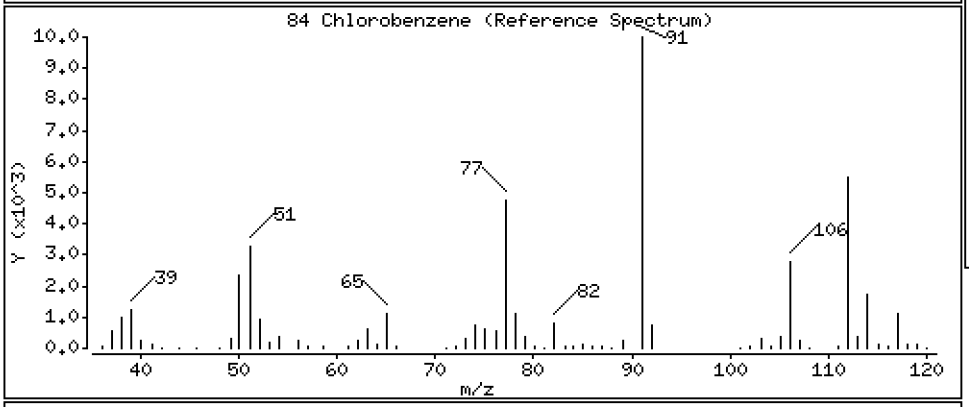
84 Chlorobenzene Concentration: 18.2973 ug/L

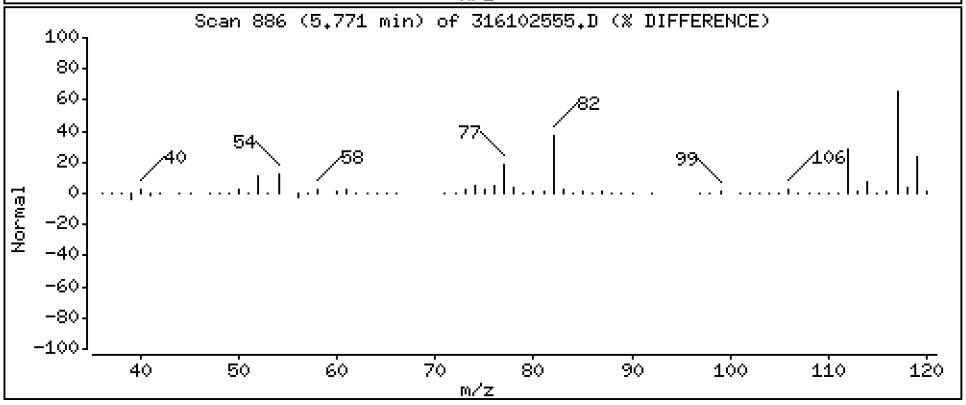












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 93

Date : 25-OCT-2016 23:28

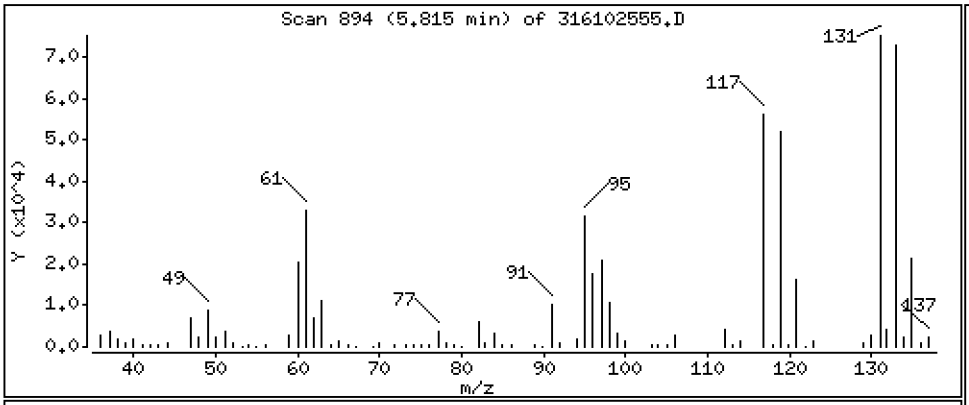
Client ID: LCS for HBN 174258 Instrument: ms03.i

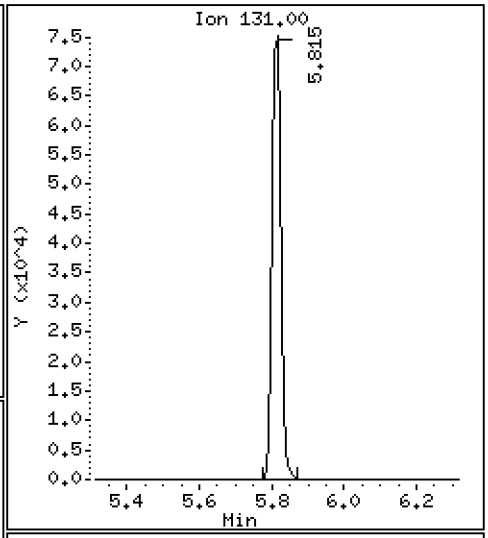
Sample Info: 2429302;;1;3;;LCS;1;

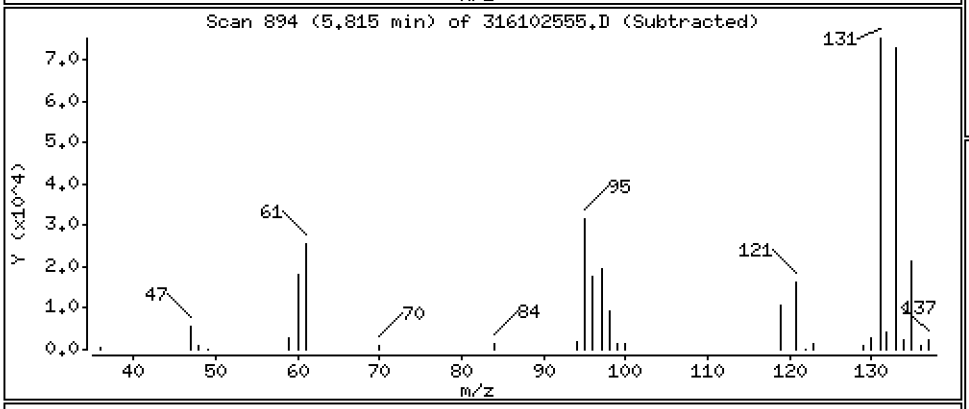
Purge Volume: 5.0 Operator: CJG

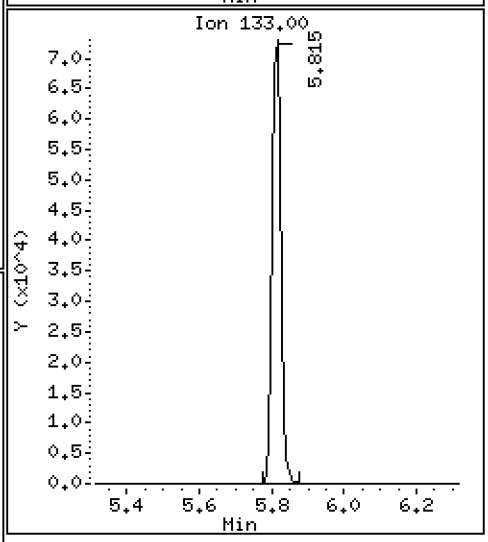
Column phase: DB-VRX Column diameter: 0.25

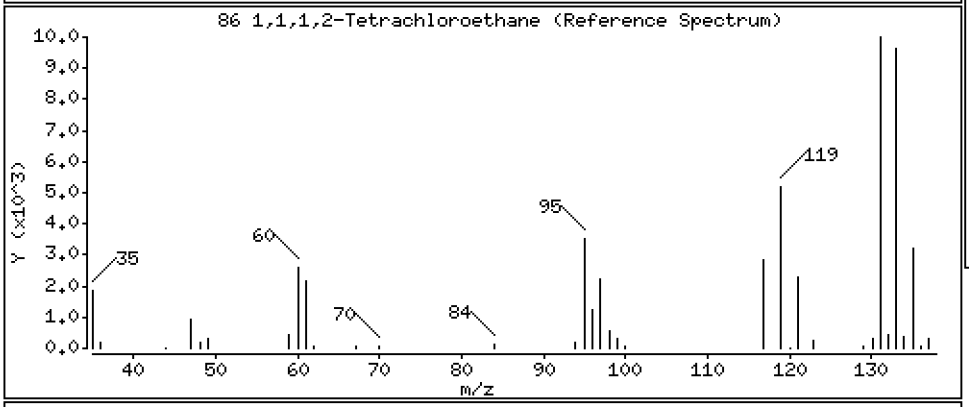
86 1,1,1,2-Tetrachloroethane Concentration: 19.7383 ug/L

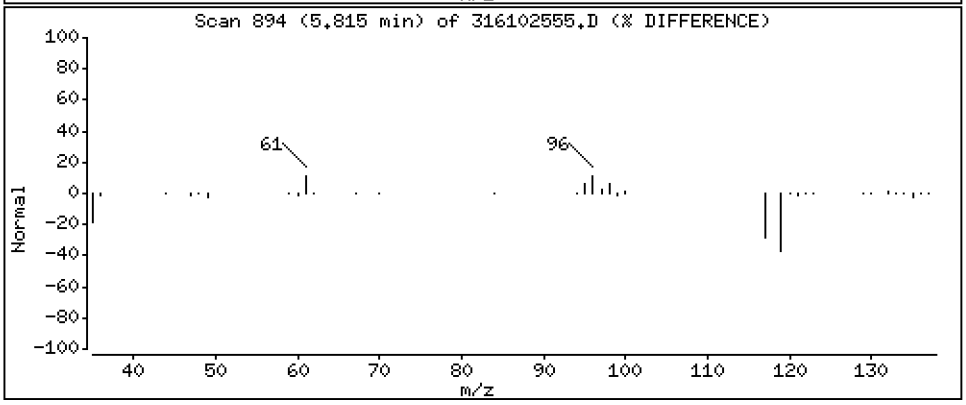












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 94

Date : 25-OCT-2016 23:28

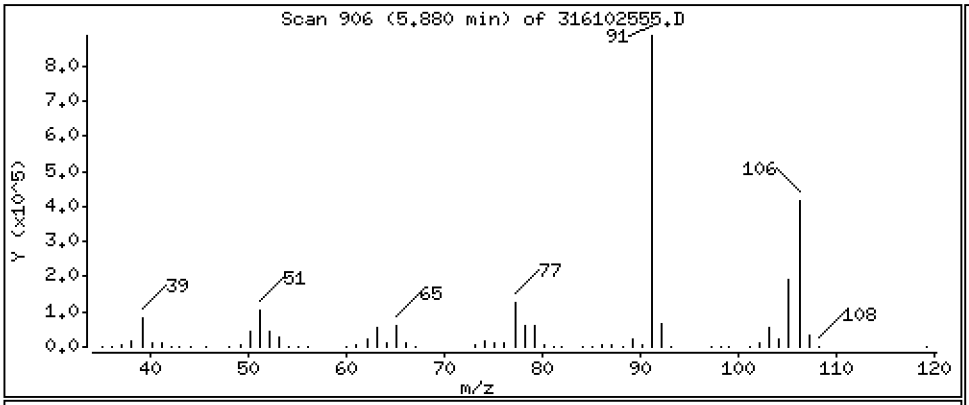
Client ID: LCS for HBN 174258 Instrument: ms03.i

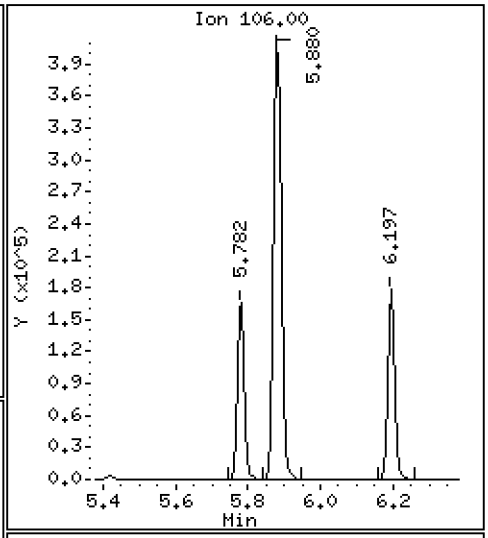
Sample Info: 2429302;;1;3;;LCS;1;

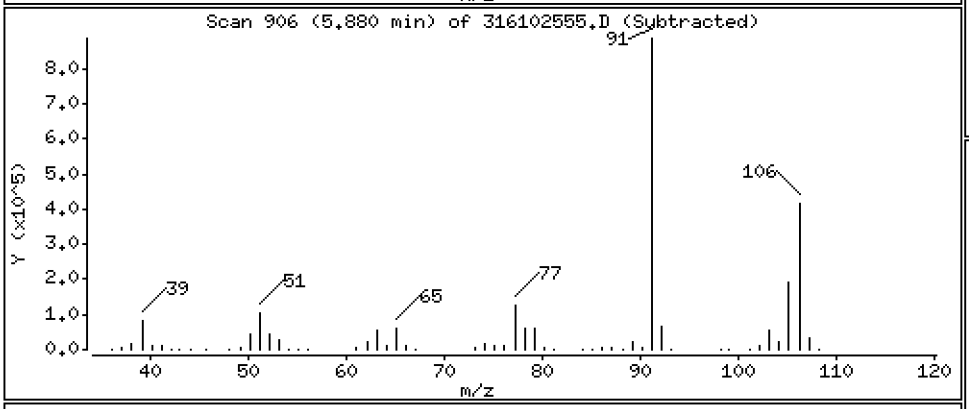
Purge Volume: 5.0 Operator: CJG

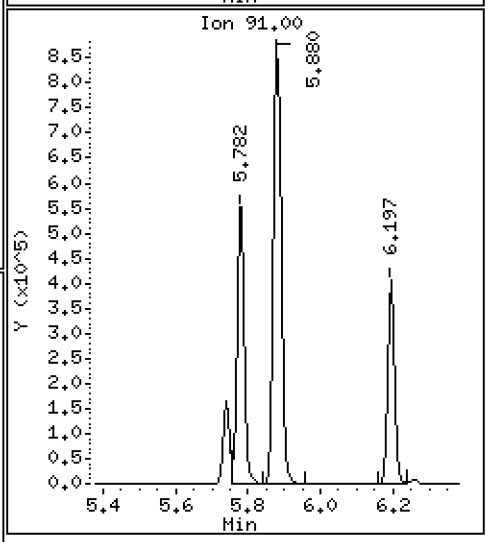
Column phase: DB-VRX Column diameter: 0.25

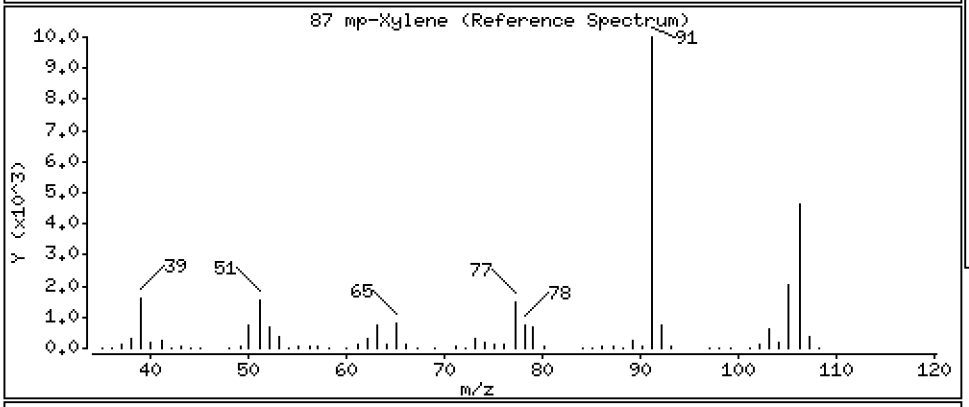
87 mp-Xylene Concentration: 38.7183 ug/L

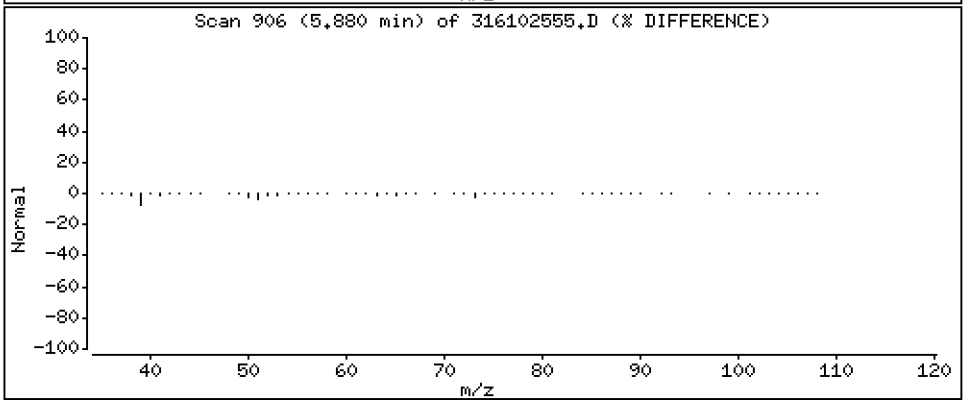












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 95

Date : 25-OCT-2016 23:28

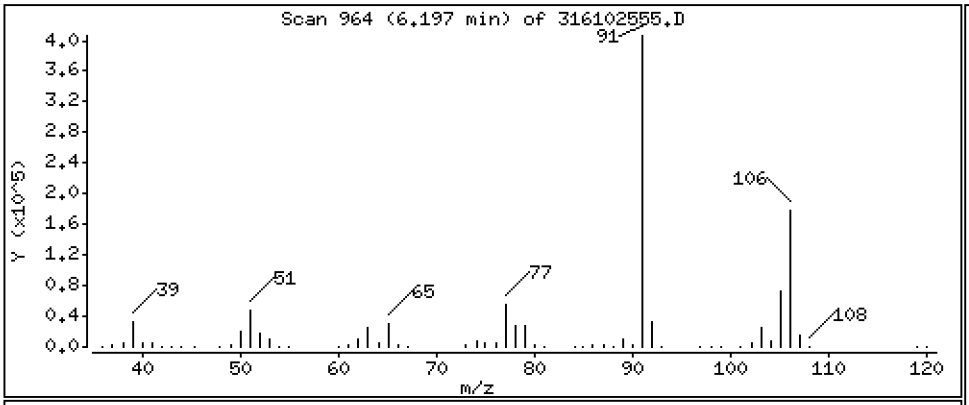
Client ID: LCS for HBN 174258 Instrument: ms03.i

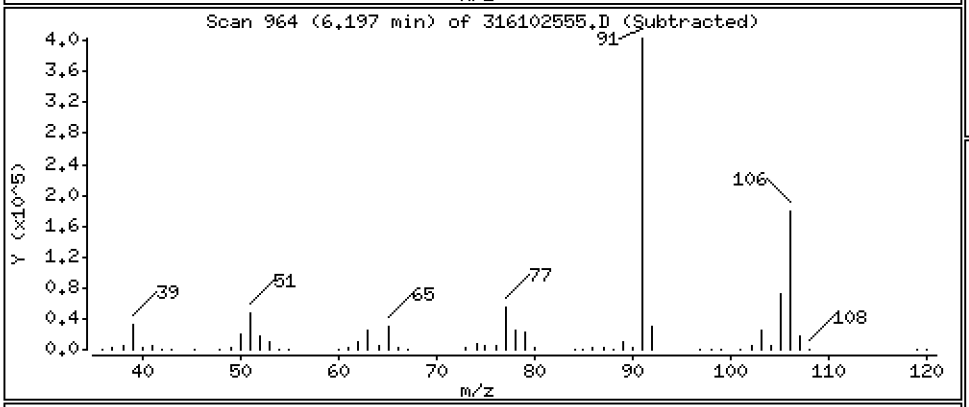
Sample Info: 2429302;;1;3;;LCS;1;

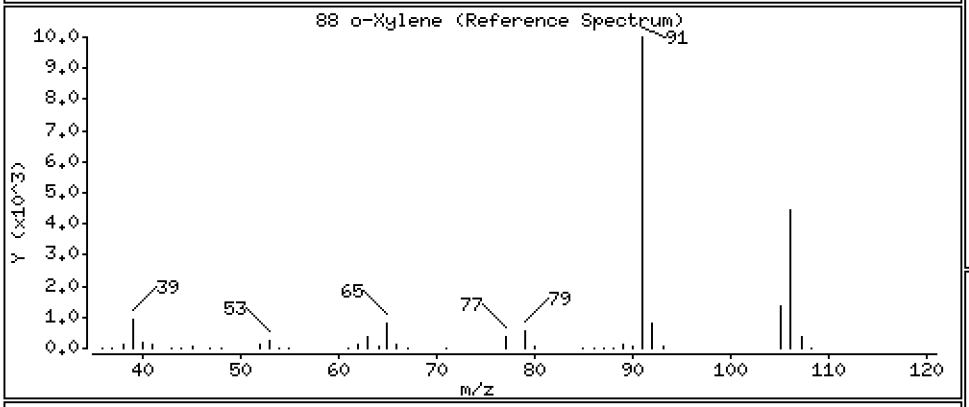
Purge Volume: 5.0 Operator: CJG

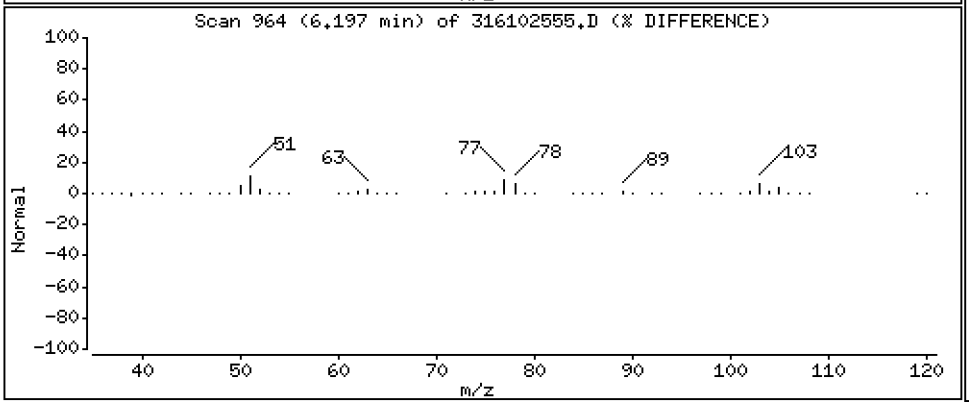
Column phase: DB-VRX Column diameter: 0.25

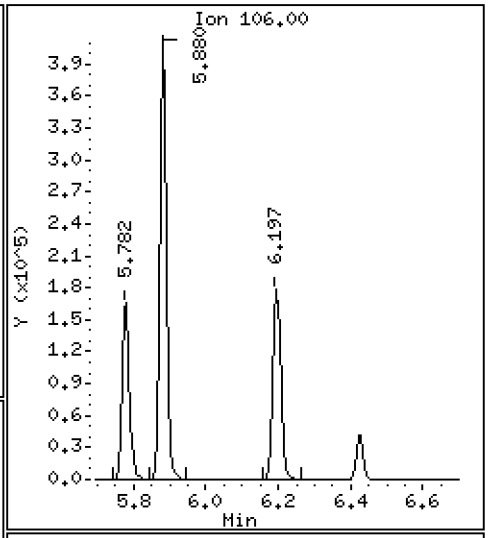
88 o-Xylene Concentration: 19.6571 ug/L

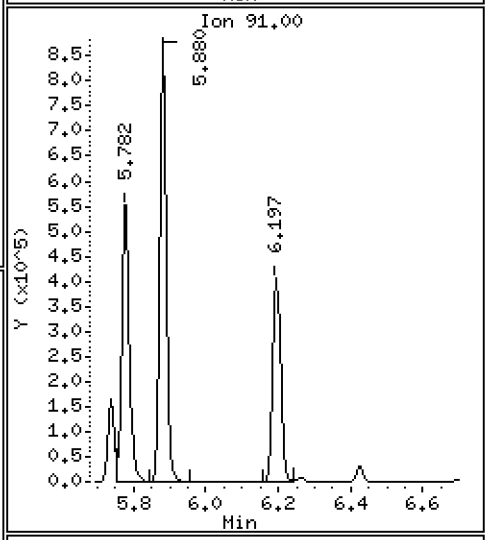


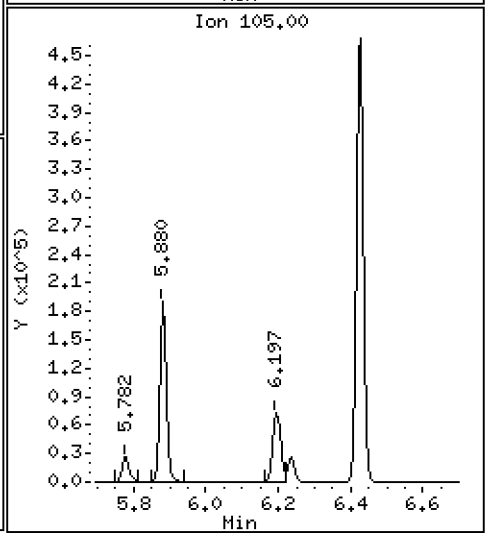












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 96

Date : 25-OCT-2016 23:28

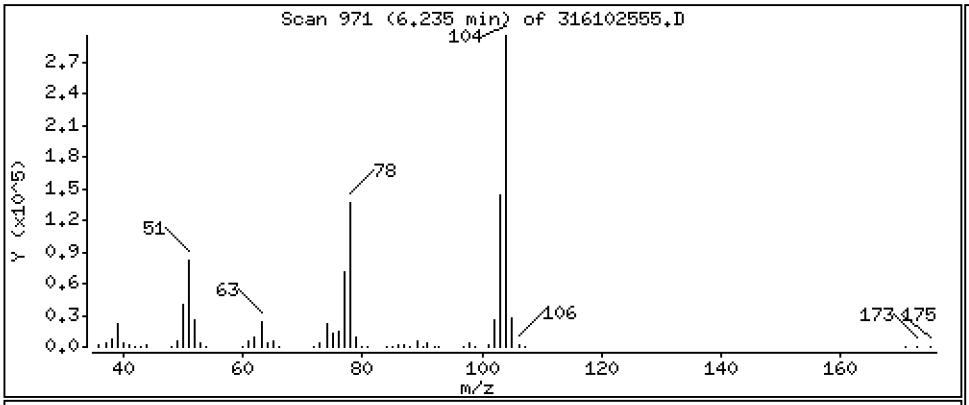
Client ID: LCS for HBN 174258 Instrument: ms03.i

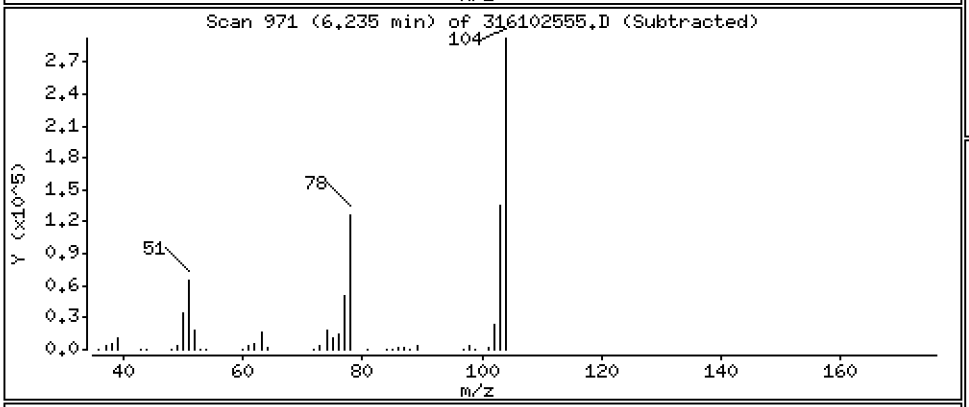
Sample Info: 2429302;;1;3;;LCS;1;

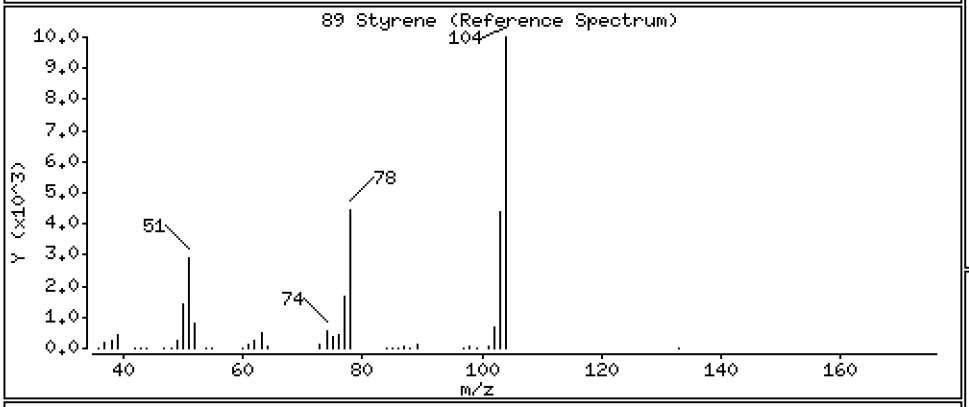
Purge Volume: 5.0 Operator: CJG

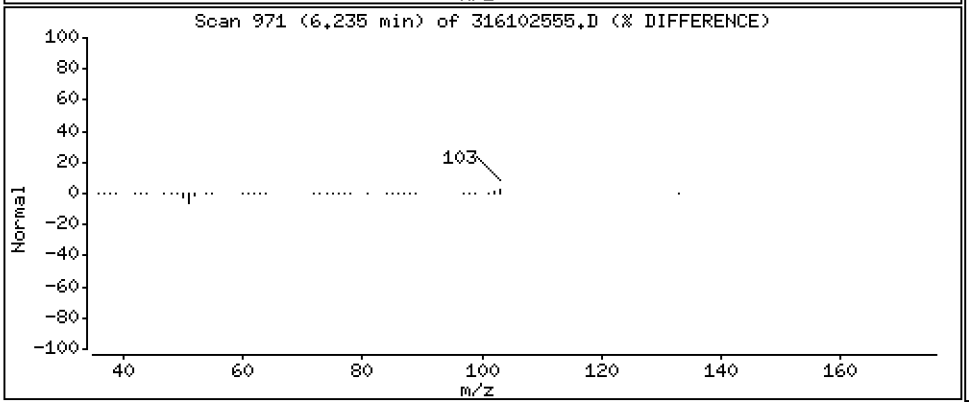
Column phase: DB-VRX Column diameter: 0.25

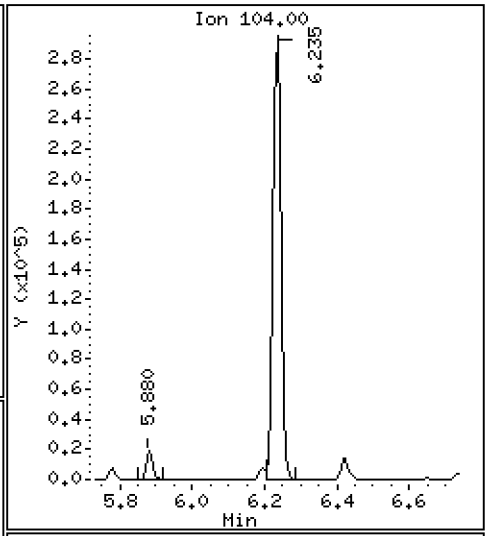
89 Styrene Concentration: 20.3553 ug/L

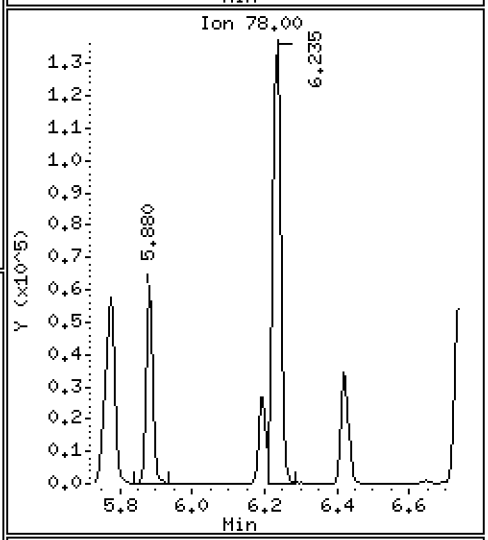


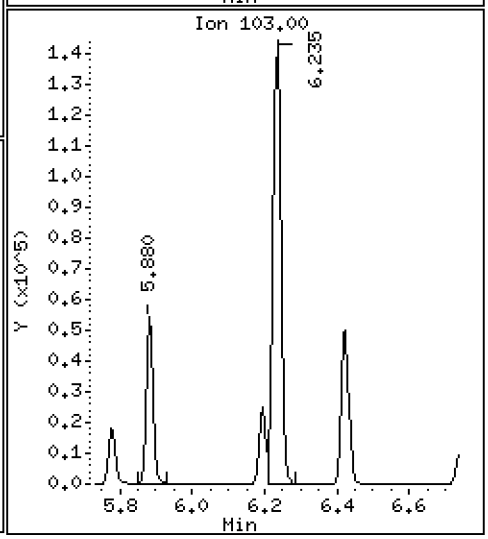












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 97

Date : 25-OCT-2016 23:28

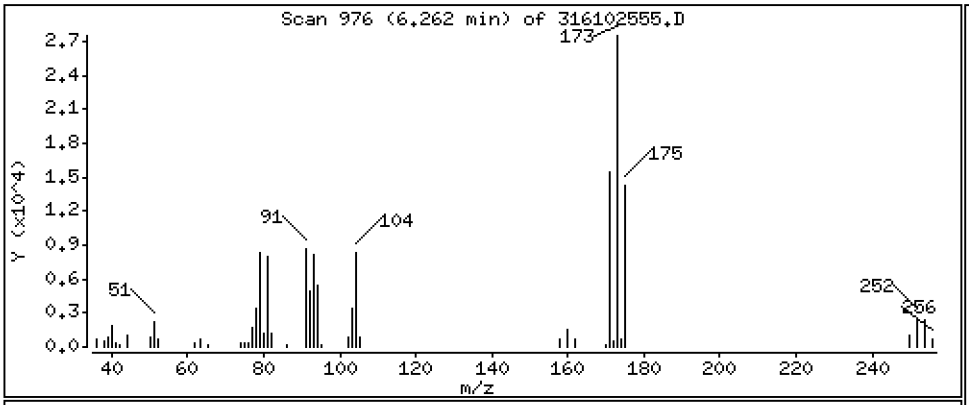
Client ID: LCS for HBN 174258 Instrument: ms03.i

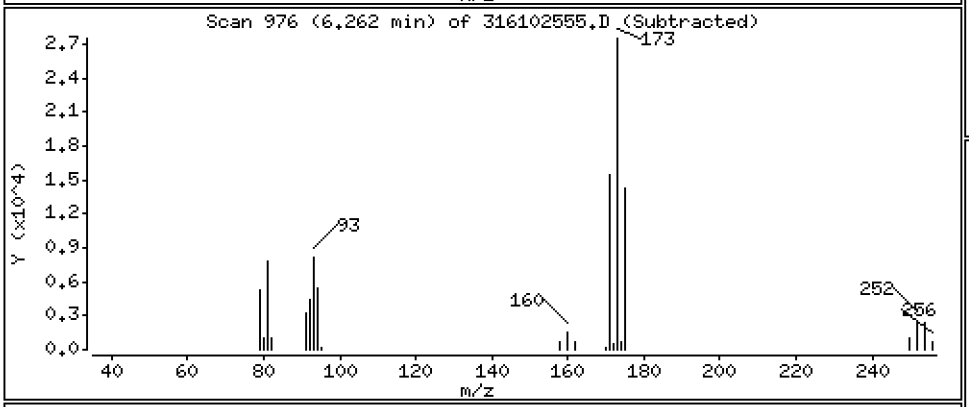
Sample Info: 2429302;;1;3;;LCS;1;

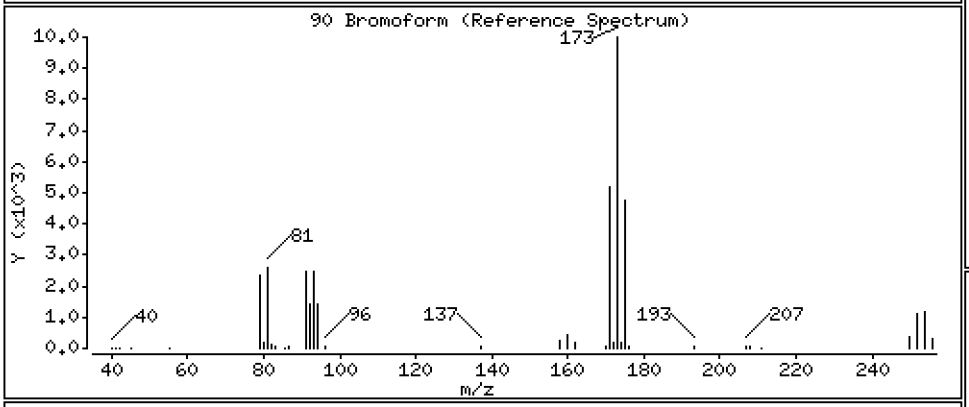
Purge Volume: 5.0 Operator: CJG

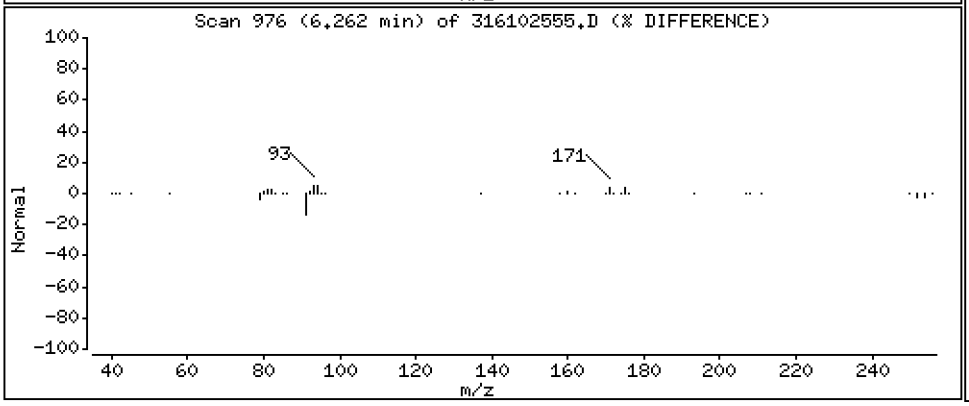
Column phase: DB-VRX Column diameter: 0.25

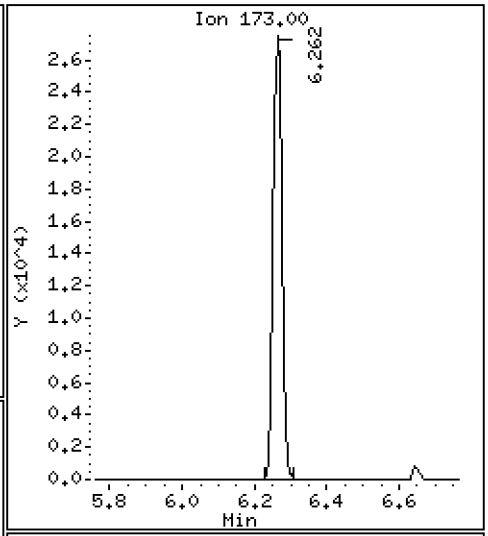
90 Bromoform Concentration: 17.0872 ug/L

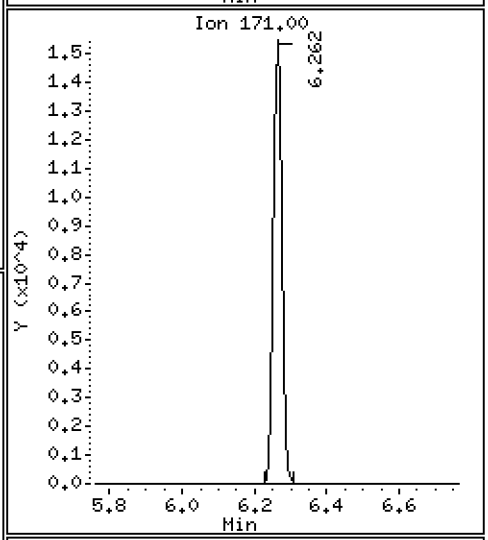


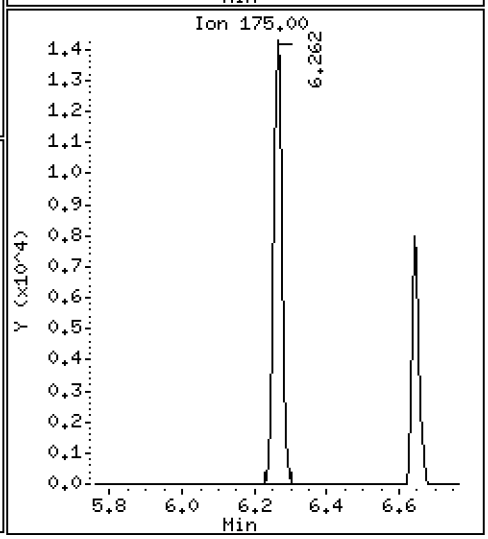












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 98

Date : 25-OCT-2016 23:28

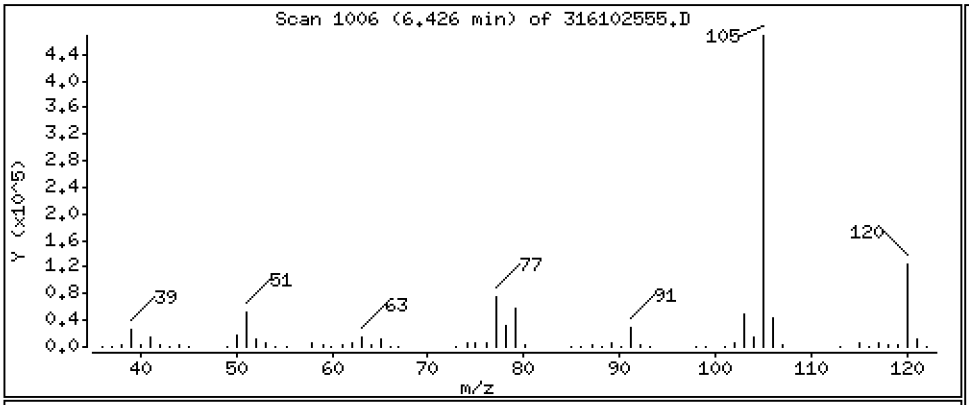
Client ID: LCS for HBN 174258 Instrument: ms03.i

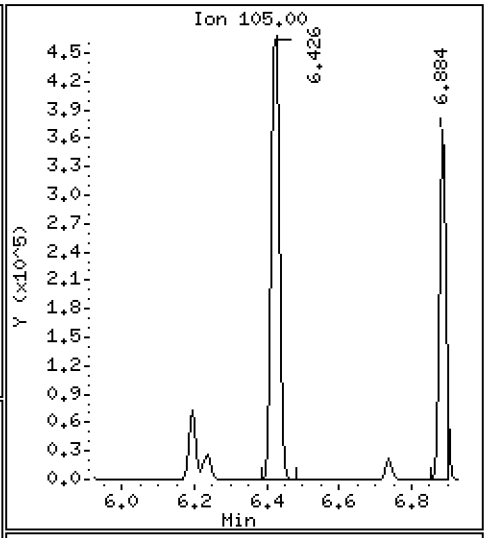
Sample Info: 2429302;;1;3;;LCS;1;

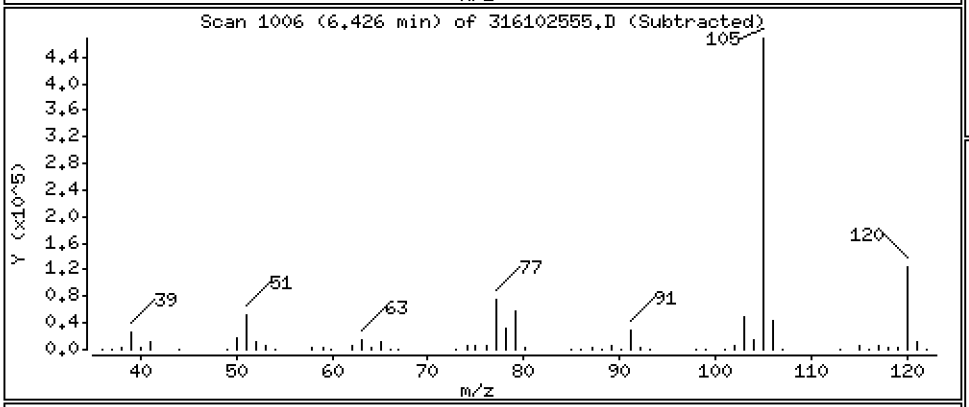
Purge Volume: 5.0 Operator: CJG

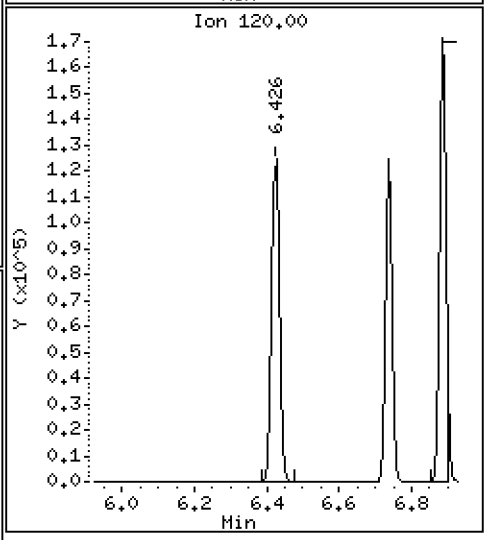
Column phase: DB-VRX Column diameter: 0.25

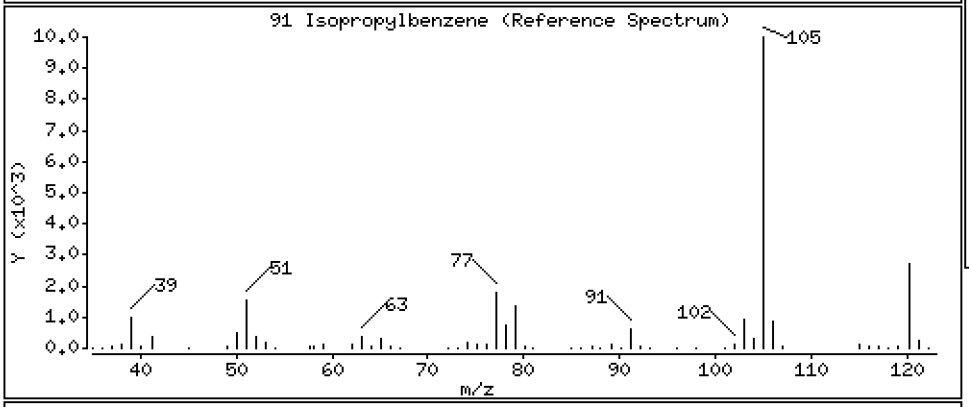
91 Isopropylbenzene Concentration: 20.1898 ug/L

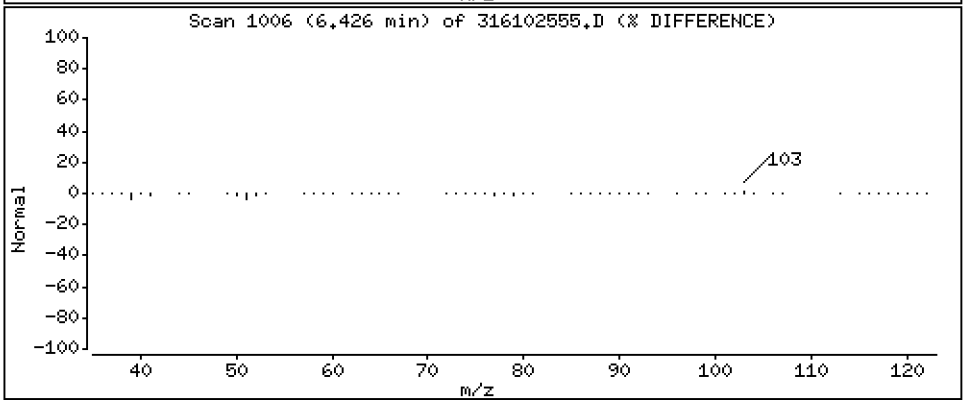












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 99

Date : 25-OCT-2016 23:28

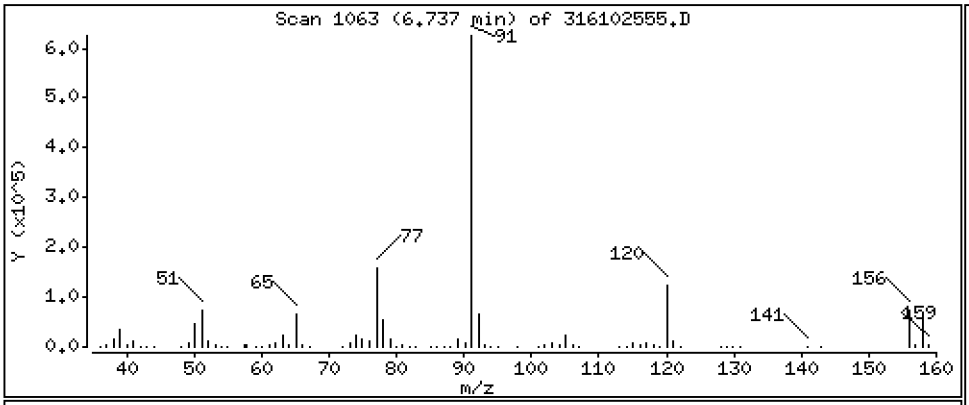
Client ID: LCS for HBN 174258 Instrument: ms03.i

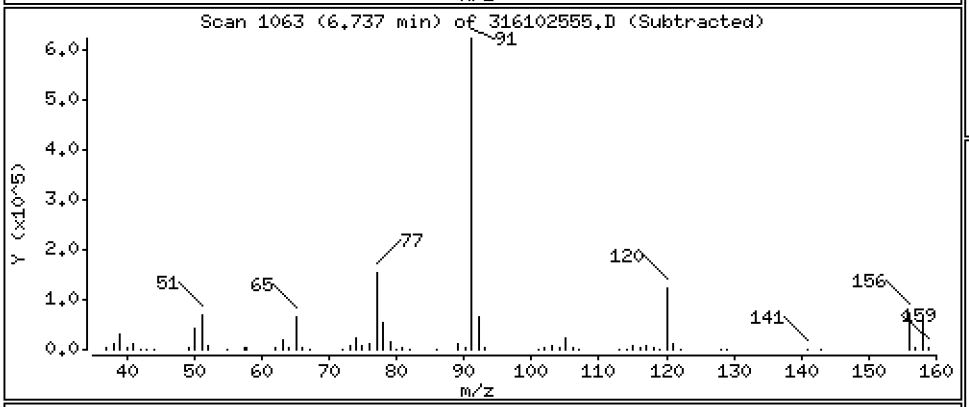
Sample Info: 2429302;;1;3;;LCS;1;

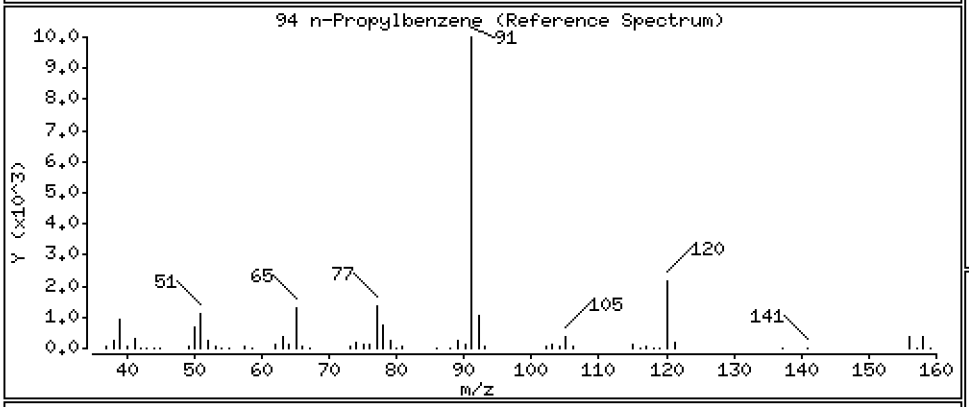
Purge Volume: 5.0 Operator: CJG

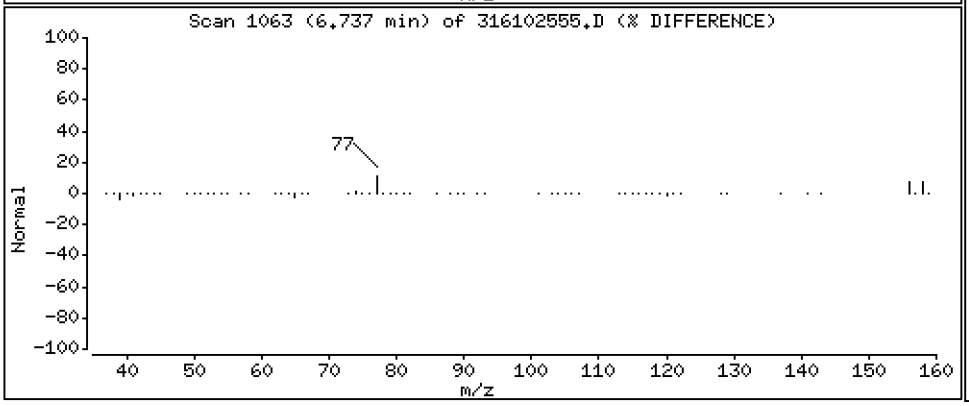
Column phase: DB-VRX Column diameter: 0.25

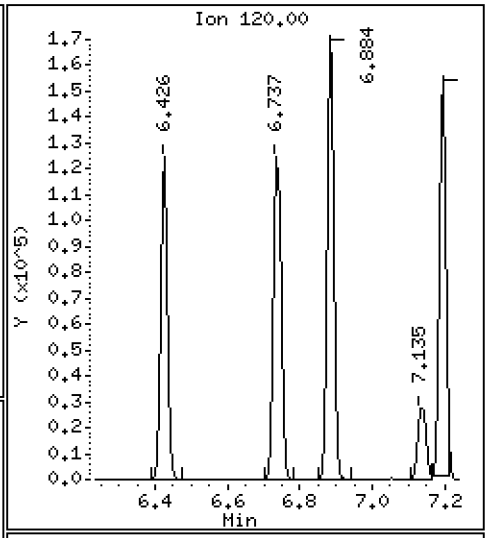
94 n-Propylbenzene Concentration: 20.0974 ug/L

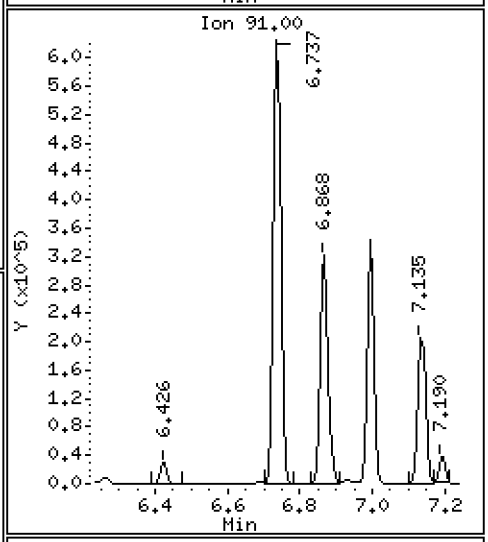


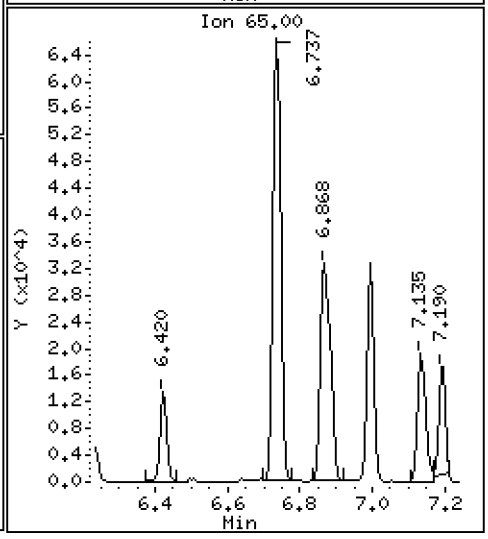












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 100

Date : 25-OCT-2016 23:28

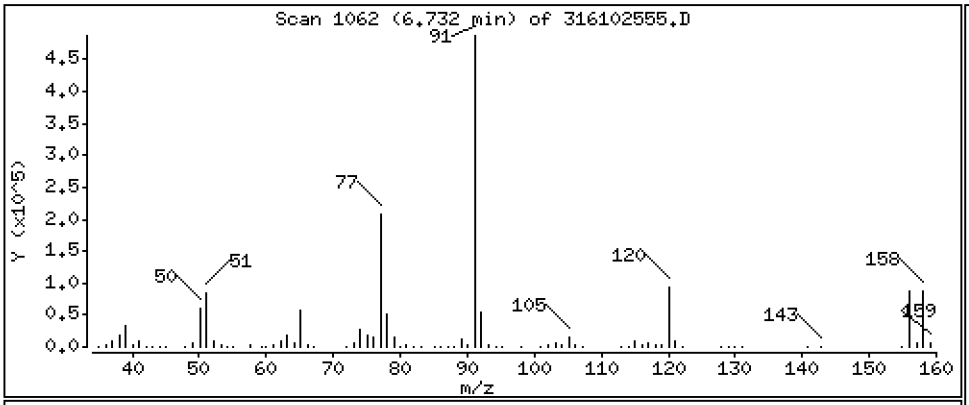
Client ID: LCS for HBN 174258 Instrument: ms03.i

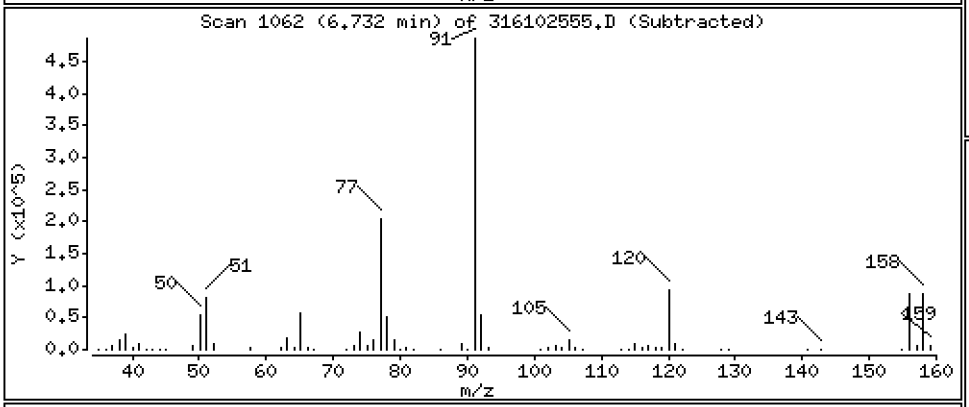
Sample Info: 2429302;;1;3;;LCS;1;

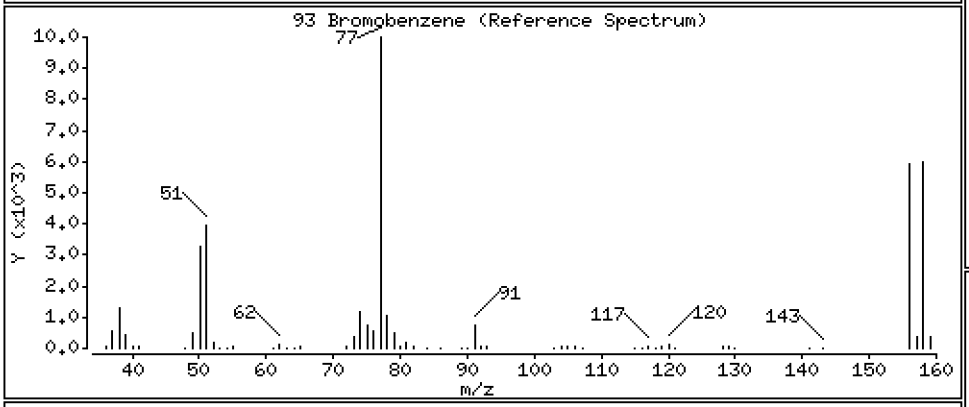
Purge Volume: 5.0 Operator: CJG

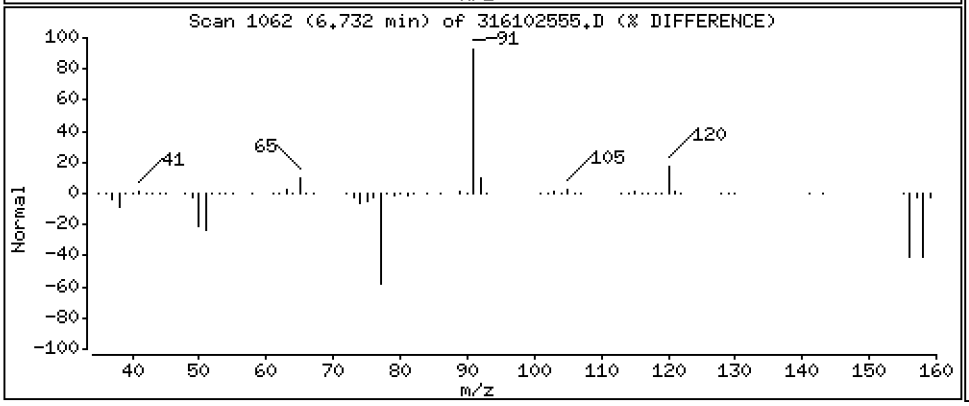
Column phase: DB-VRX Column diameter: 0.25

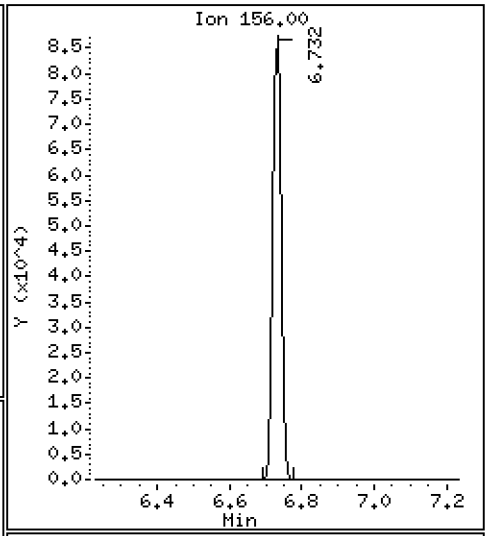
93 Bromobenzene Concentration: 18.6143 ug/L

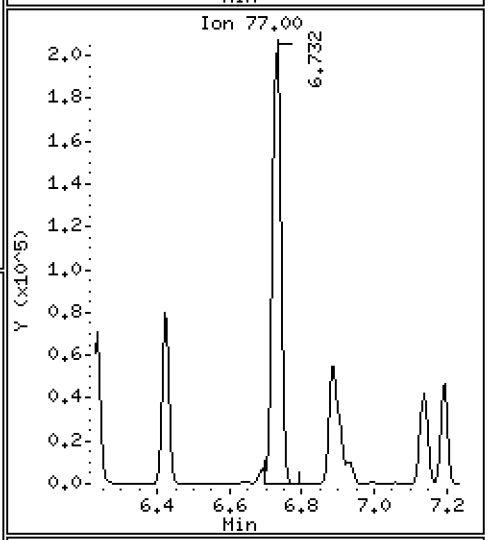


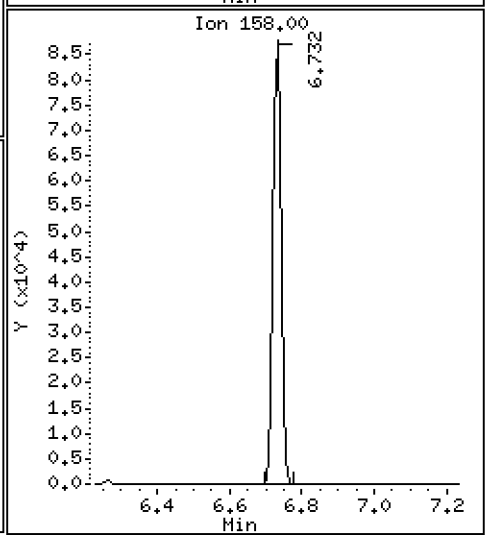












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 101

Date : 25-OCT-2016 23:28

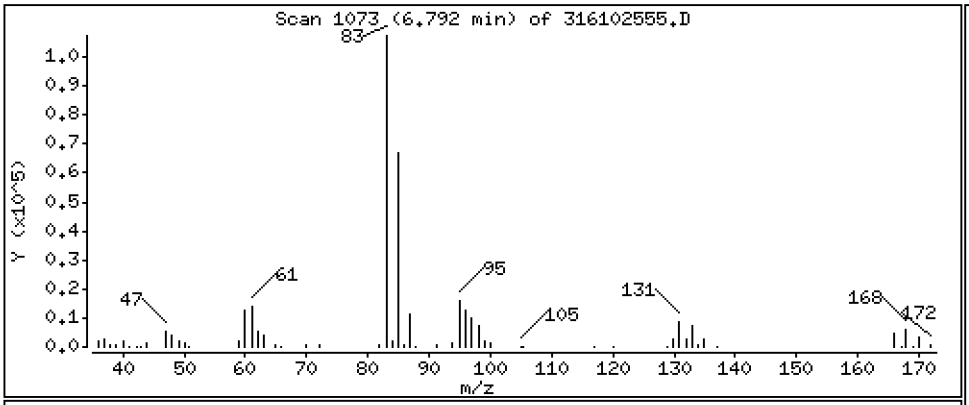
Client ID: LCS for HBN 174258 Instrument: ms03.i

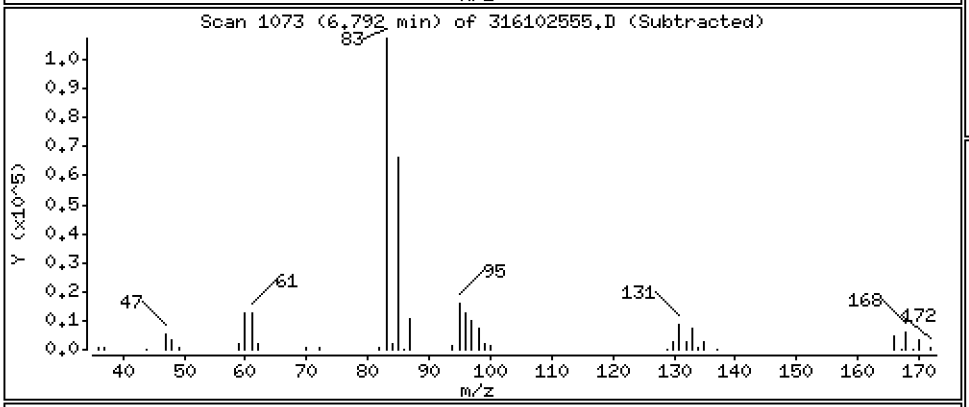
Sample Info: 2429302;;1;3;;LCS;1;

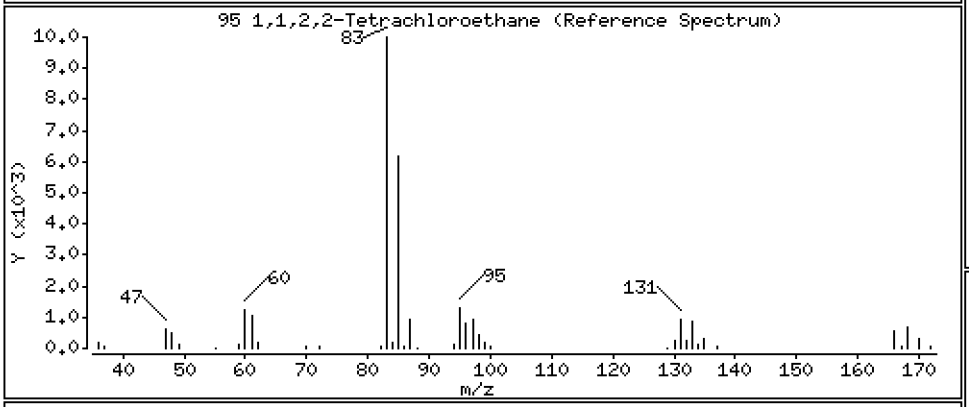
Purge Volume: 5.0 Operator: CJG

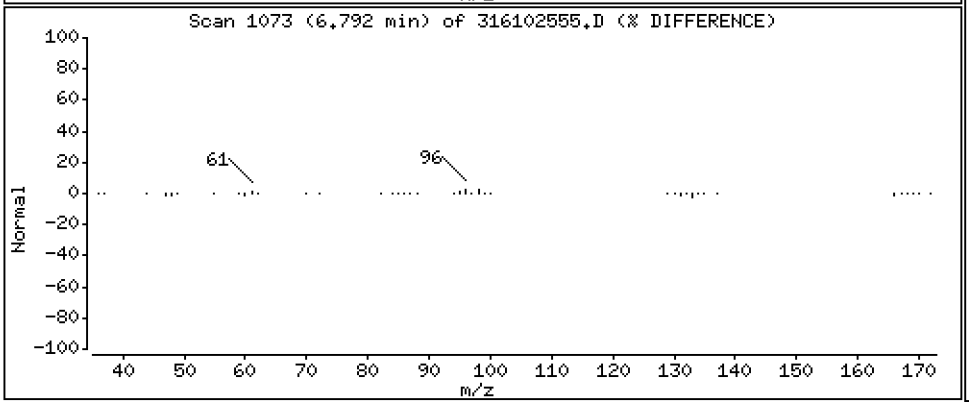
Column phase: DB-VRX Column diameter: 0.25

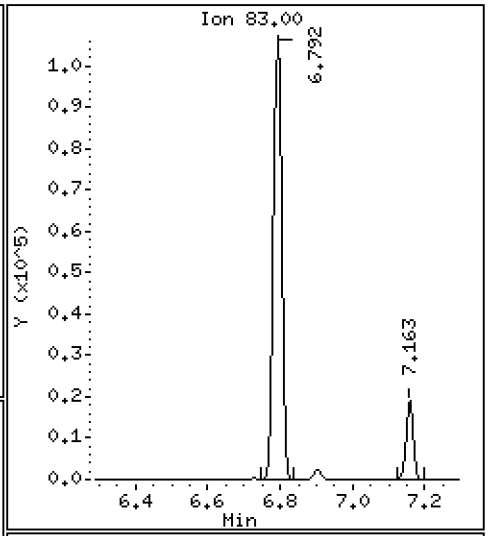
95 1,1,2,2-Tetrachloroethane Concentration: 19.5895 ug/L

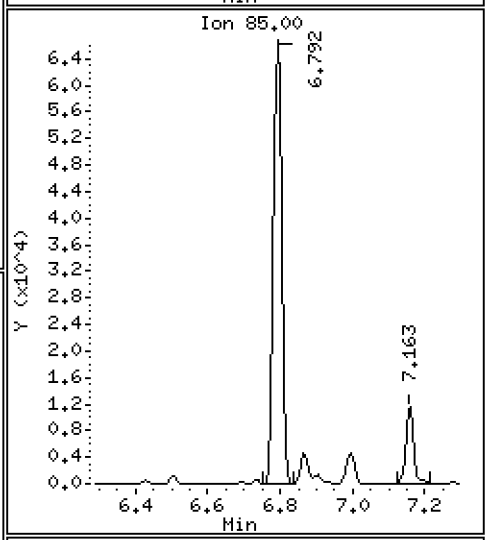


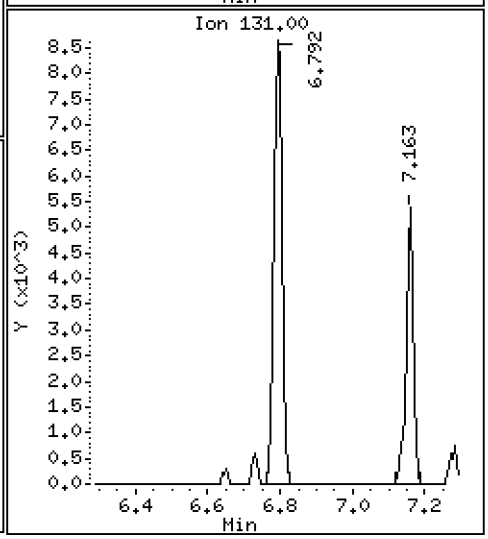












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 102

Date : 25-OCT-2016 23:28

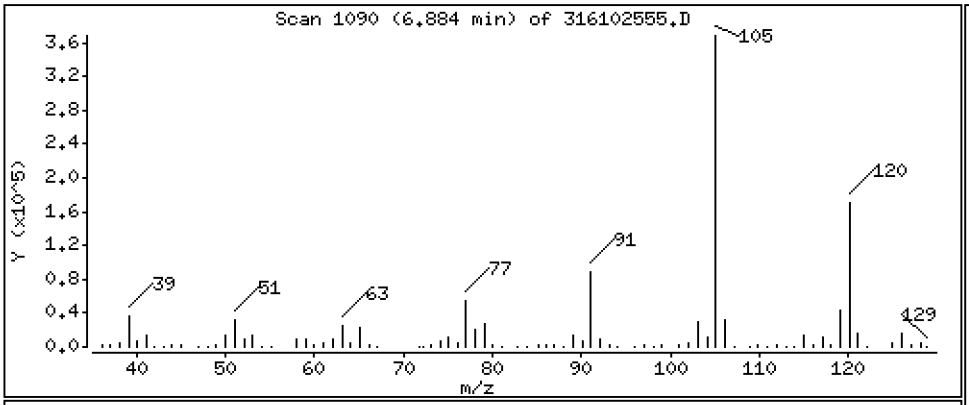
Client ID: LCS for HBN 174258 Instrument: ms03.i

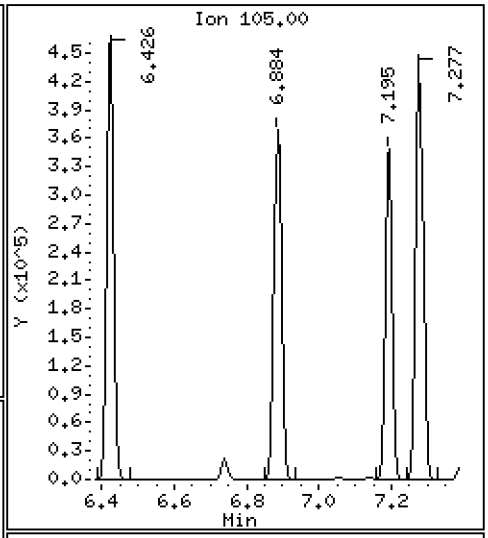
Sample Info: 2429302;;1;3;;LCS;1;

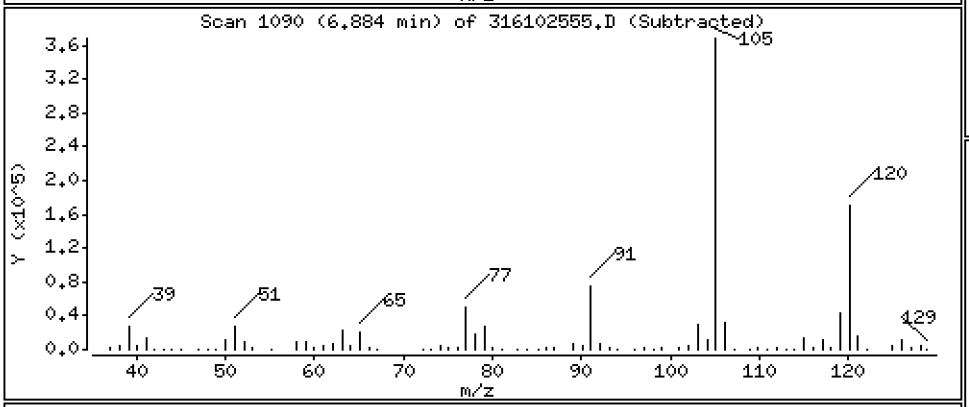
Purge Volume: 5.0 Operator: CJG

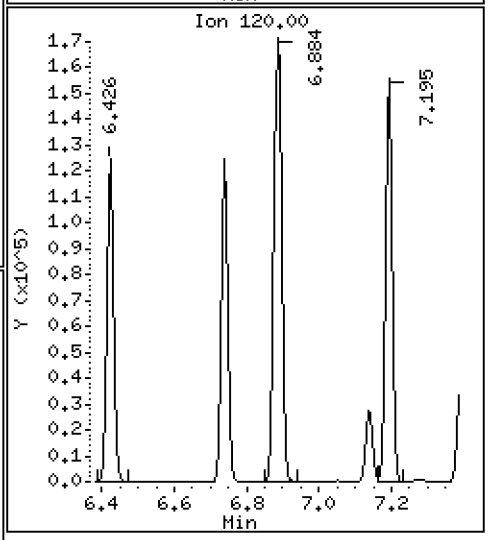
Column phase: DB-VRX Column diameter: 0.25

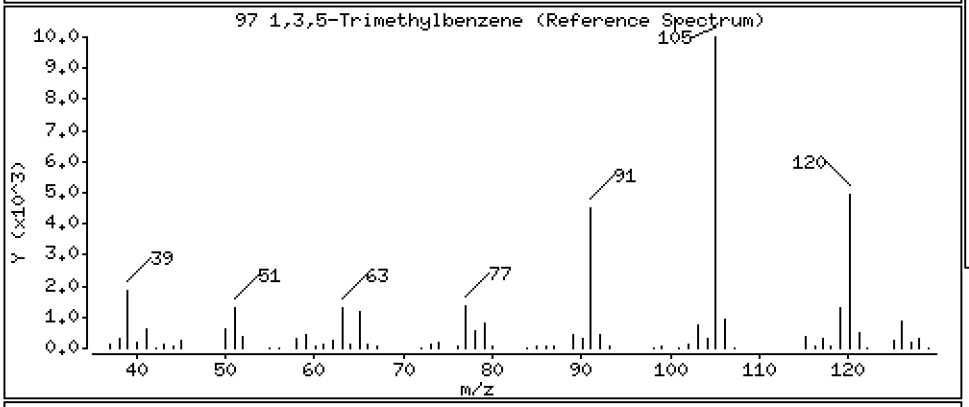
97 1,3,5-Trimethylbenzene Concentration: 21.0045 ug/L

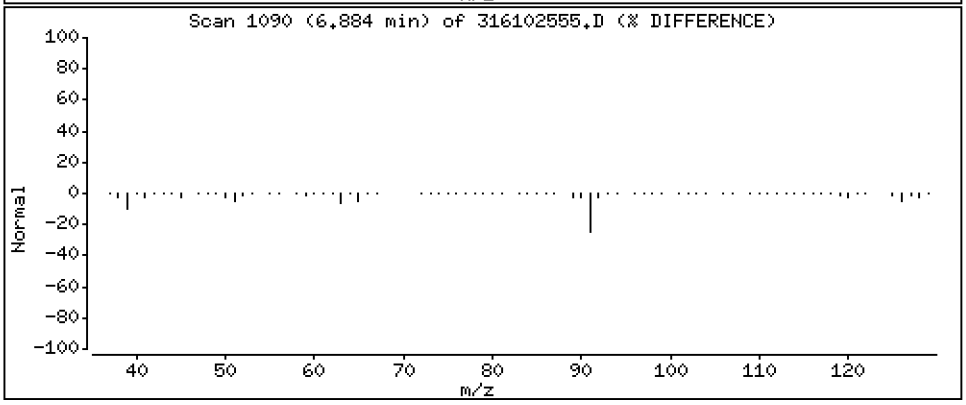












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 103

Date : 25-OCT-2016 23:28

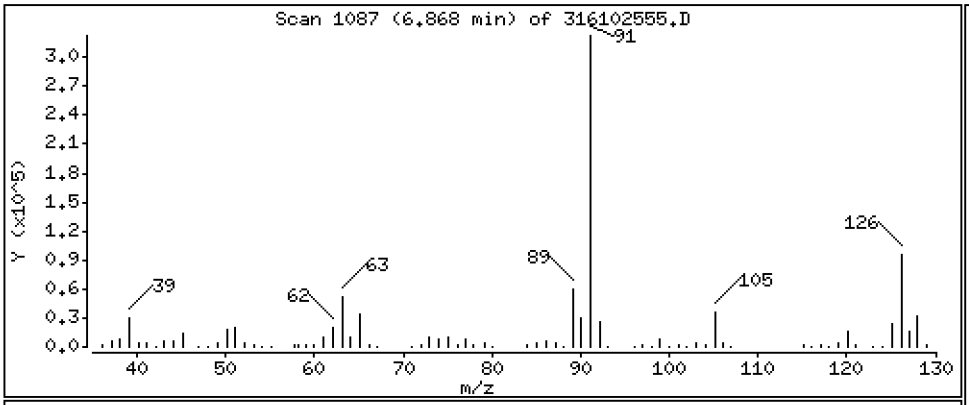
Client ID: LCS for HBN 174258 Instrument: ms03.i

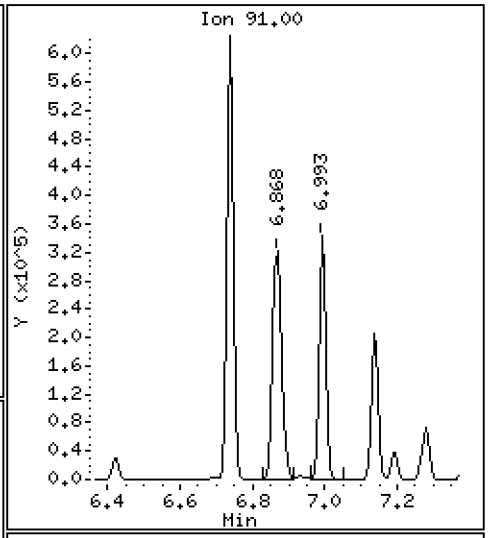
Sample Info: 2429302;;1;3;;LCS;1;

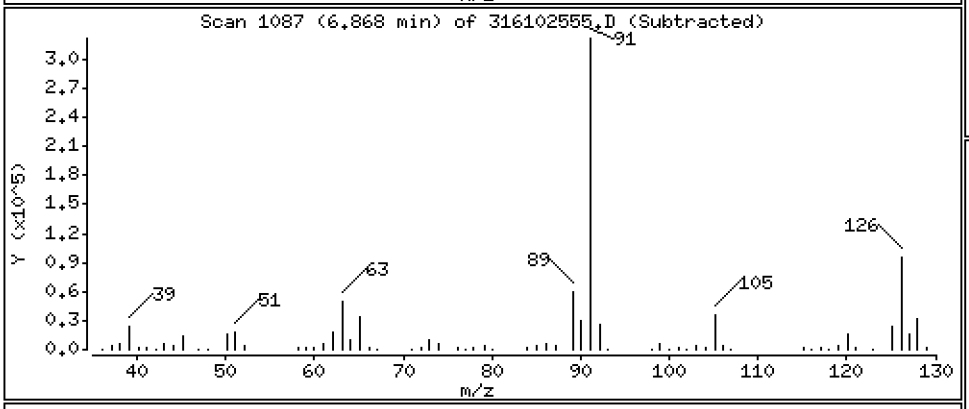
Purge Volume: 5.0 Operator: CJG

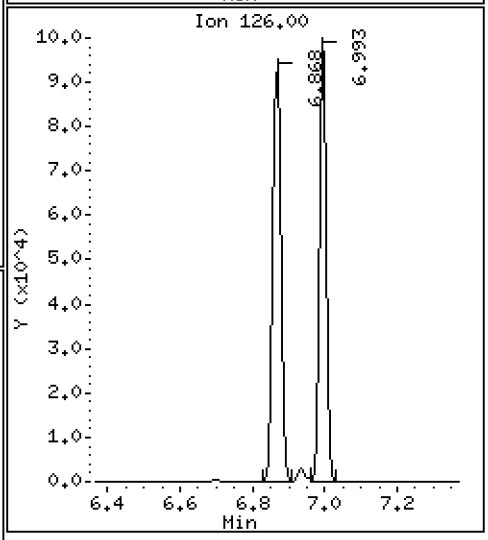
Column phase: DB-VRX Column diameter: 0.25

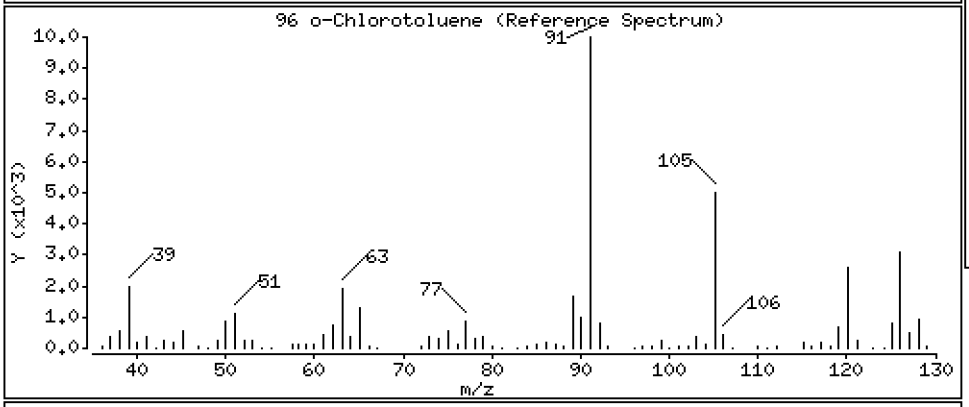
96 o-Chlorotoluene Concentration: 20.1275 ug/L

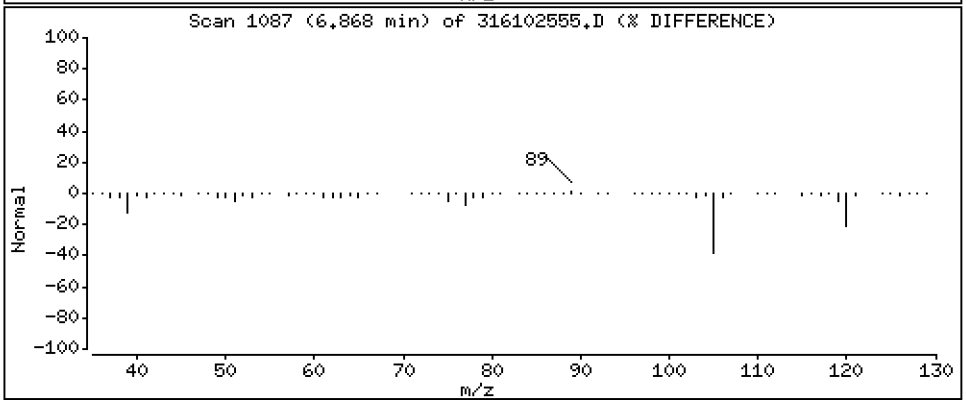












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 104

Date : 25-OCT-2016 23:28

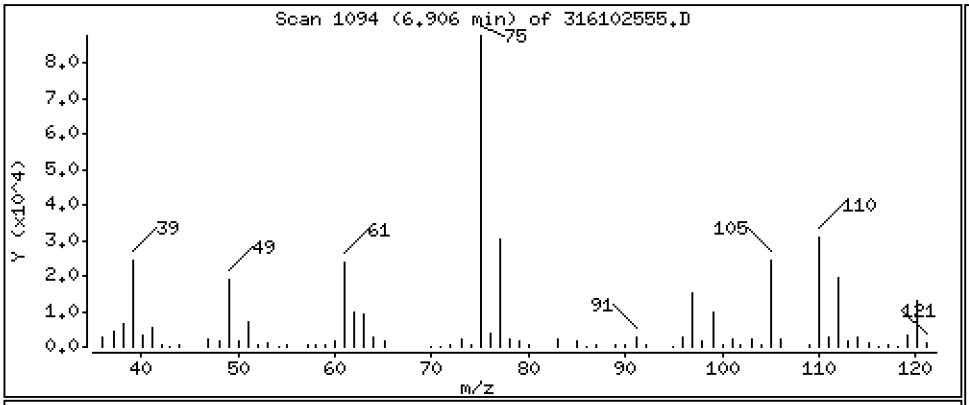
Client ID: LCS for HBN 174258 Instrument: ms03.i

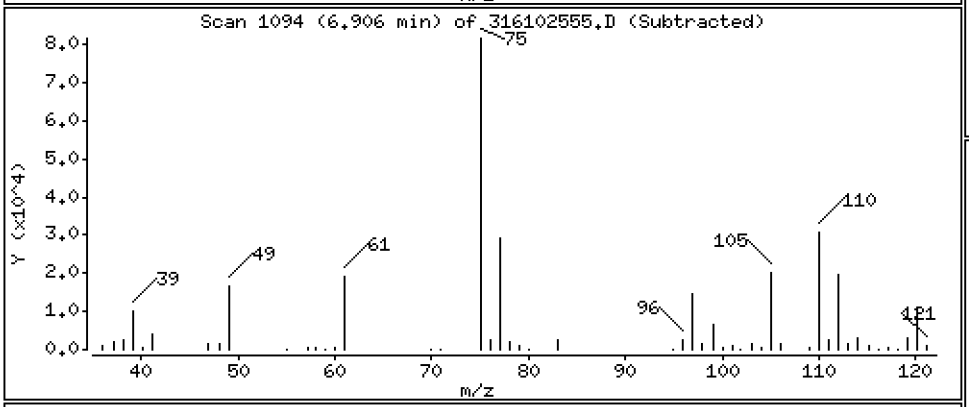
Sample Info: 2429302;;1;3;;LCS;1;

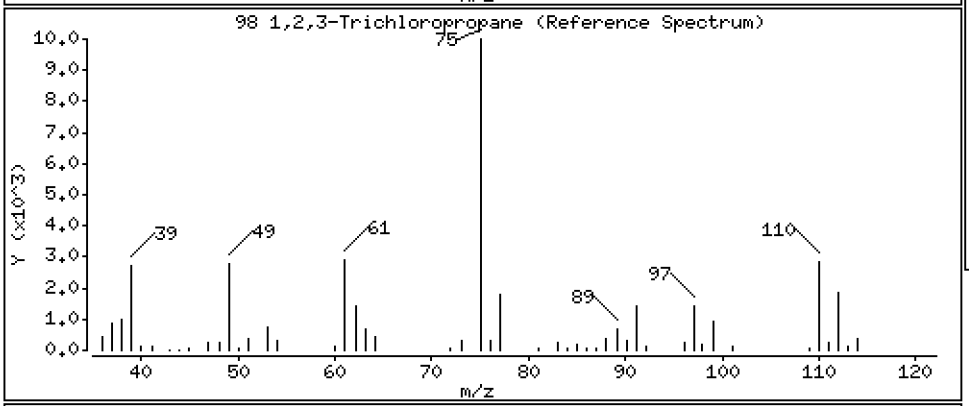
Purge Volume: 5.0 Operator: CJG

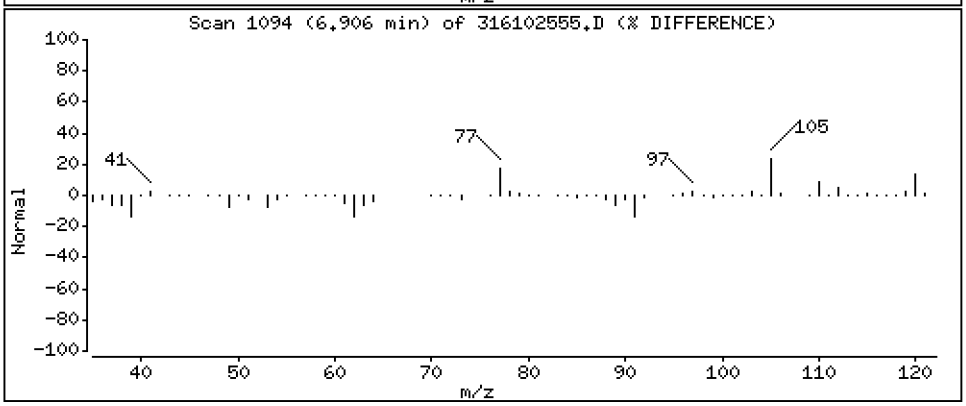
Column phase: DB-VRX Column diameter: 0.25

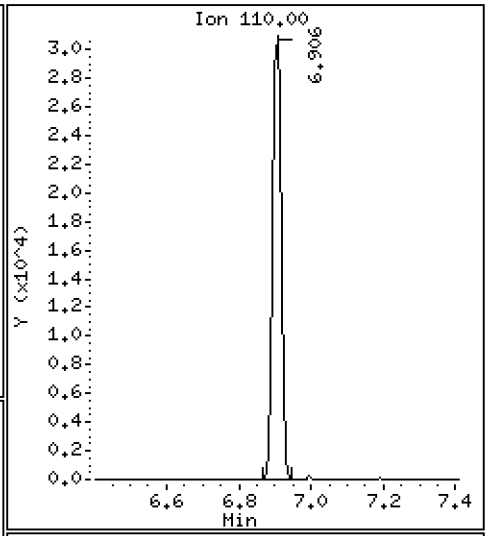
98 1,2,3-Trichloropropane Concentration: 19.4769 ug/L

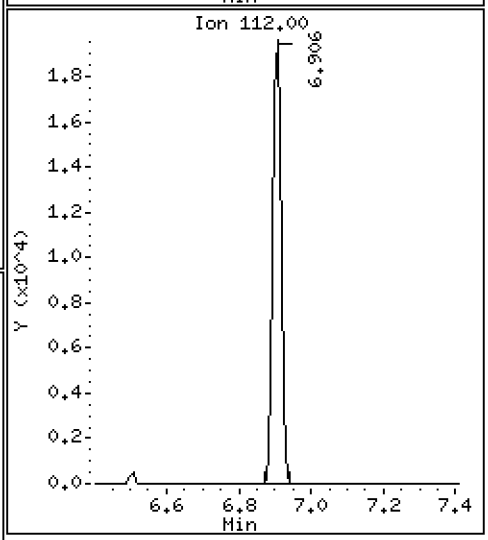












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 105

Date : 25-OCT-2016 23:28

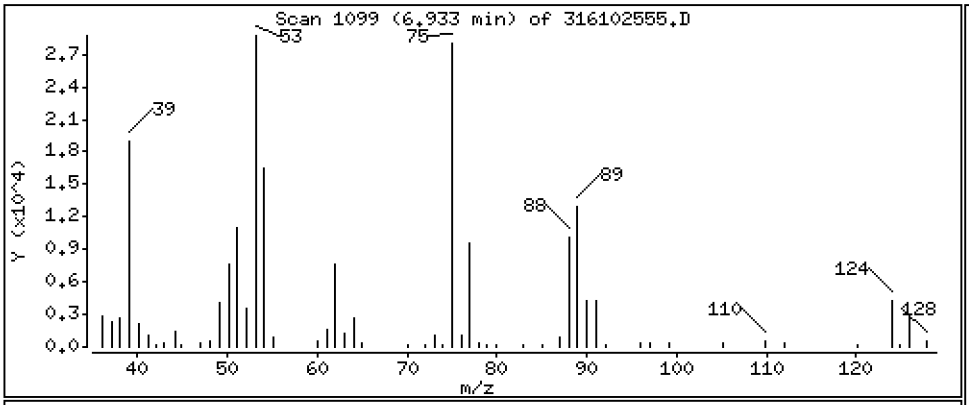
Client ID: LCS for HBN 174258 Instrument: ms03.i

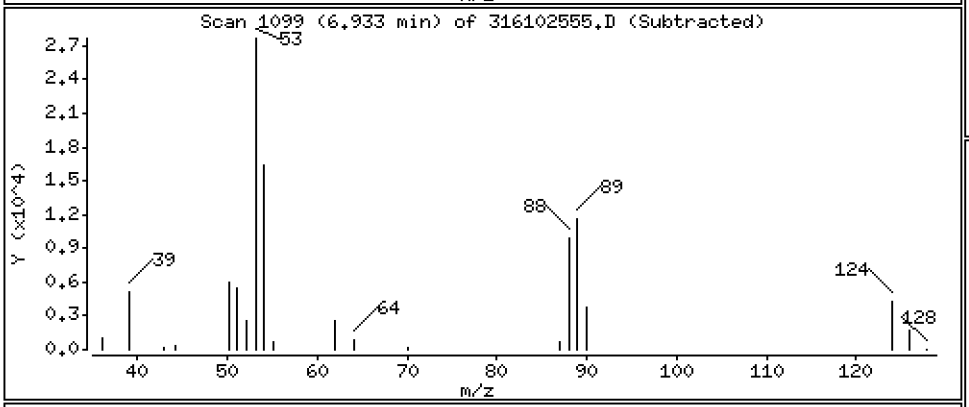
Sample Info: 2429302;;1;3;;LCS;1;

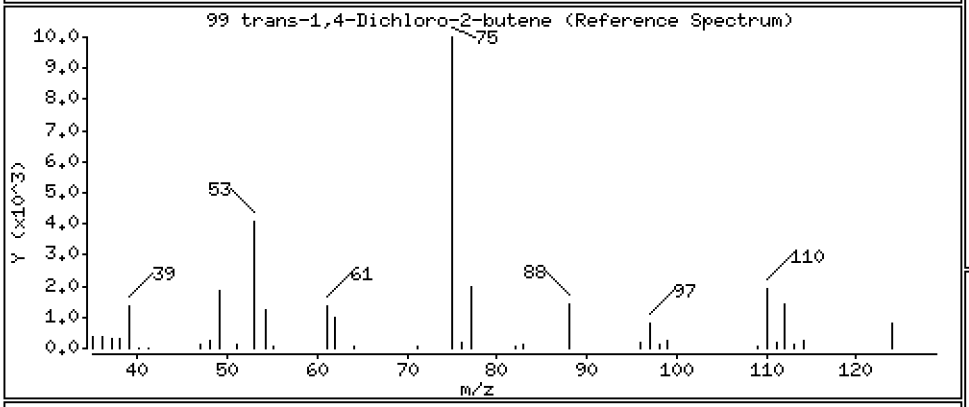
Purge Volume: 5.0 Operator: CJG

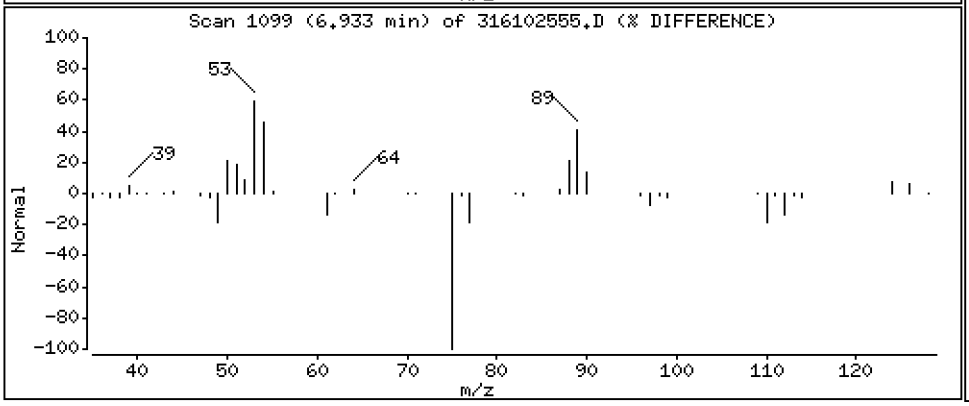
Column phase: DB-VRX Column diameter: 0.25

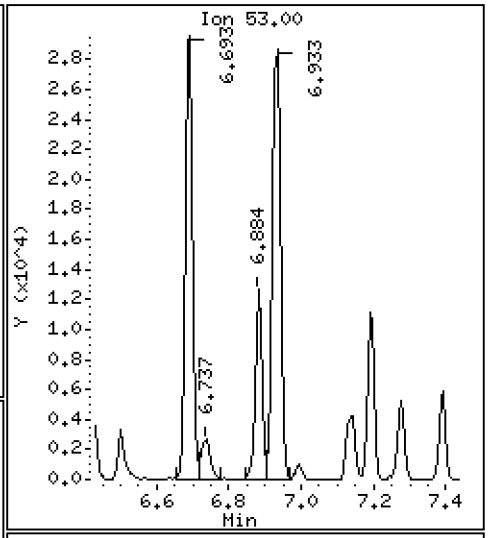
99 trans-1,4-Dichloro-2-butene Concentration: 21.6142 ug/L

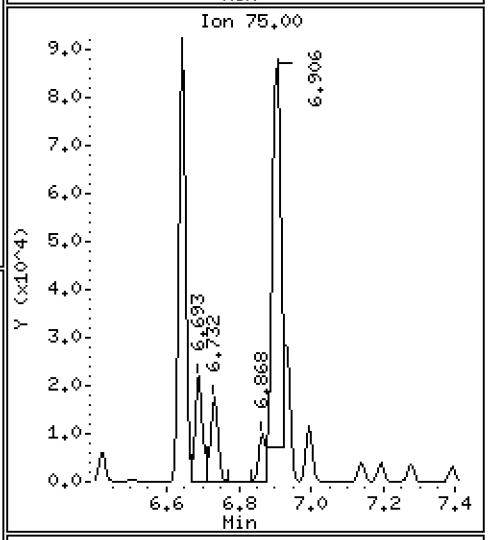


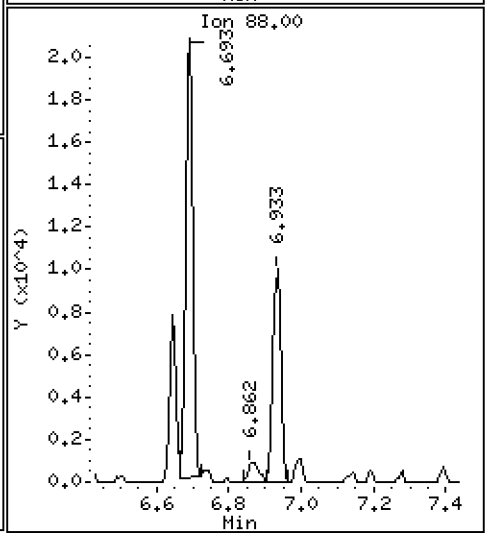












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 106

Date : 25-OCT-2016 23:28

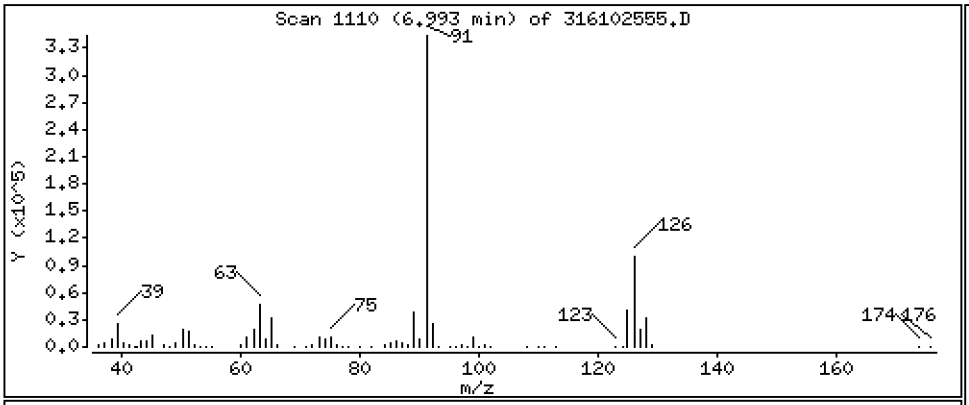
Client ID: LCS for HBN 174258 Instrument: ms03.i

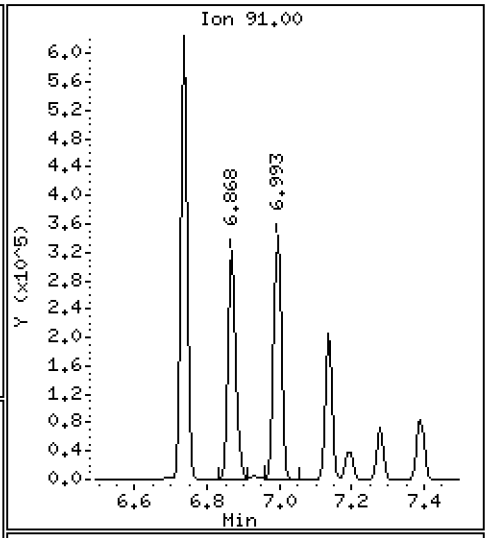
Sample Info: 2429302;;1;3;;LCS;1;

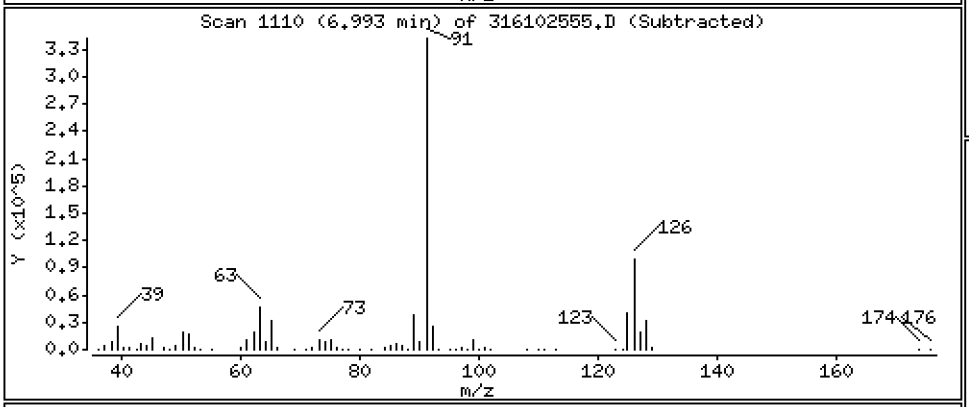
Purge Volume: 5.0 Operator: CJG

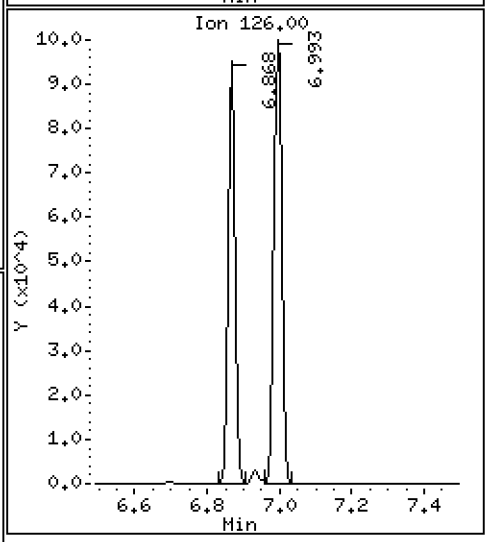
Column phase: DB-VRX Column diameter: 0.25

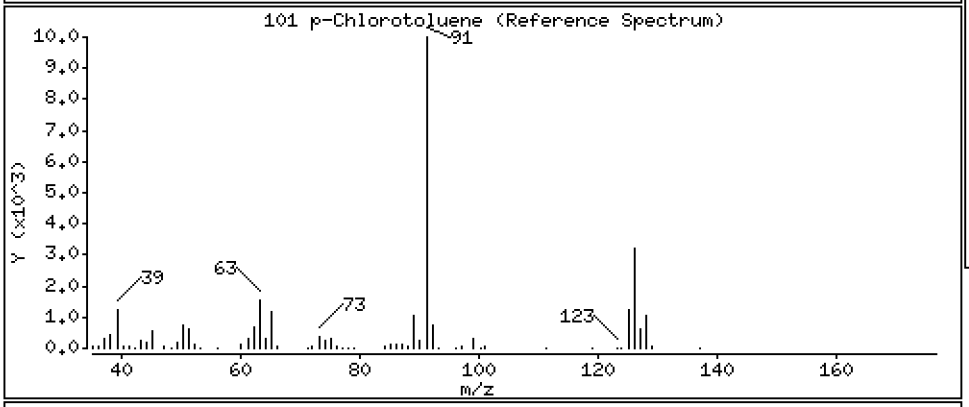
101 p-Chlorotoluene Concentration: 19.9542 ug/L

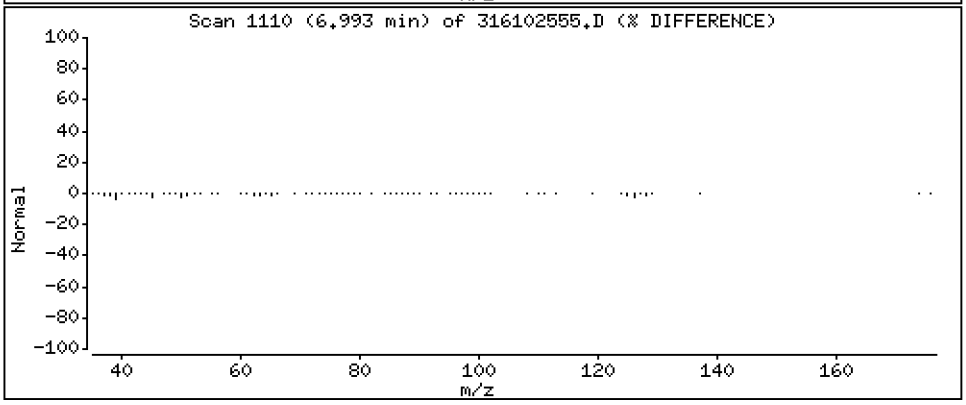












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 107

Date : 25-OCT-2016 23:28

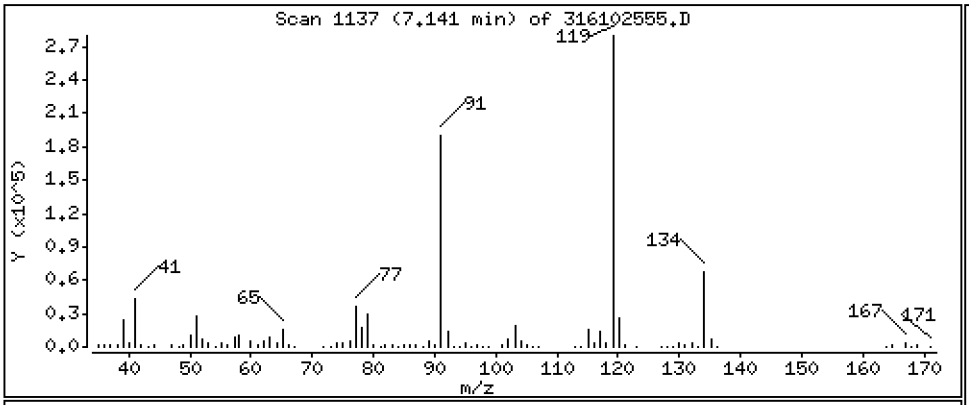
Client ID: LCS for HBN 174258 Instrument: ms03.i

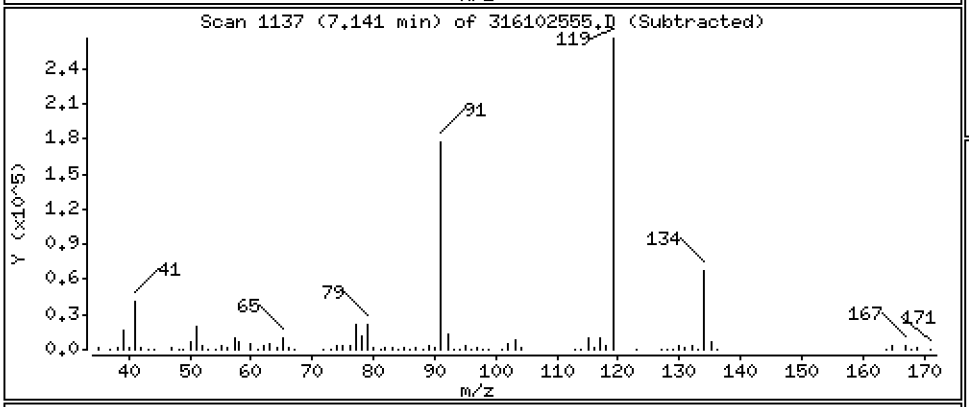
Sample Info: 2429302;;1;3;;LCS;1;

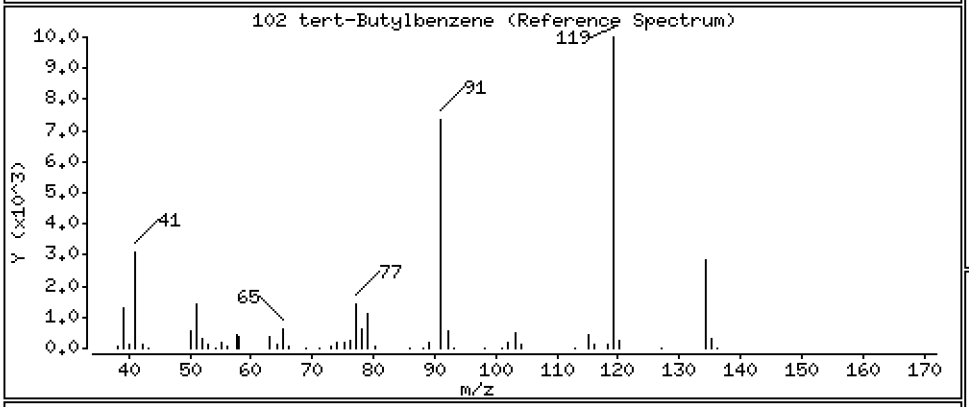
Purge Volume: 5.0 Operator: CJG

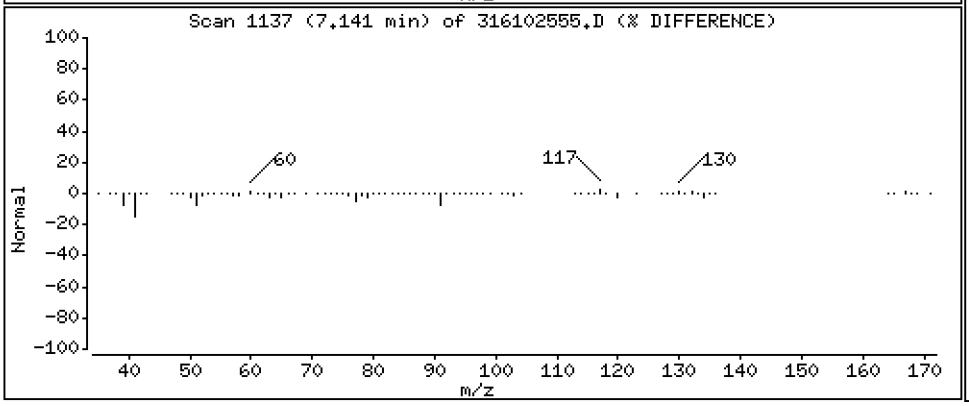
Column phase: DB-VRX Column diameter: 0.25

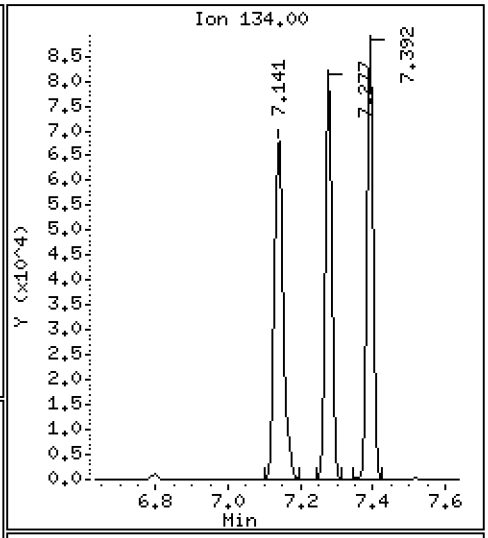
102 tert-Butylbenzene Concentration: 20.0166 ug/L

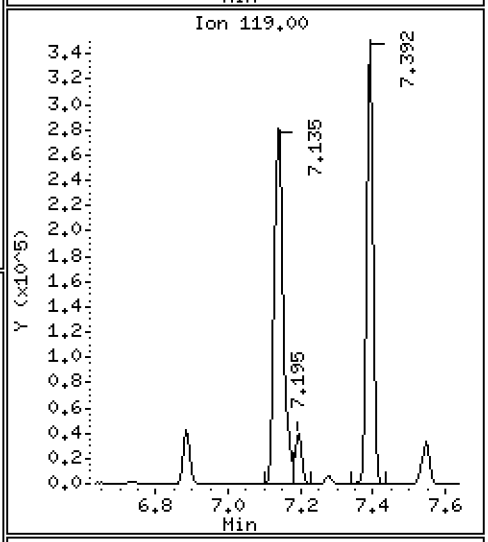


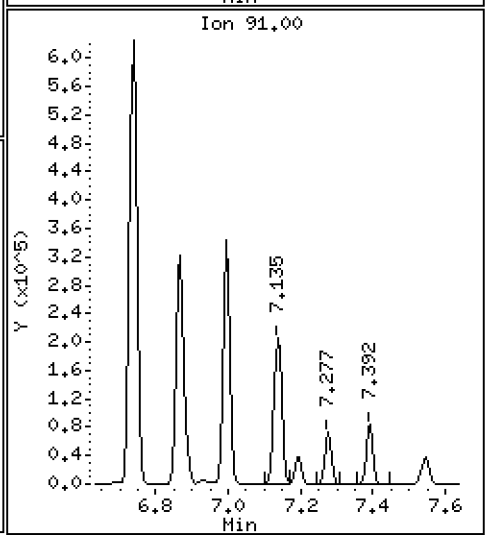












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 108

Date : 25-OCT-2016 23:28

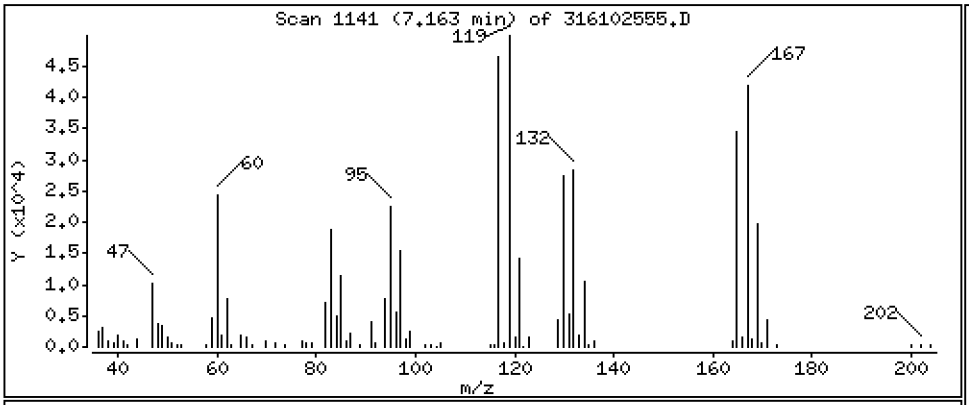
Client ID: LCS for HBN 174258 Instrument: ms03.i

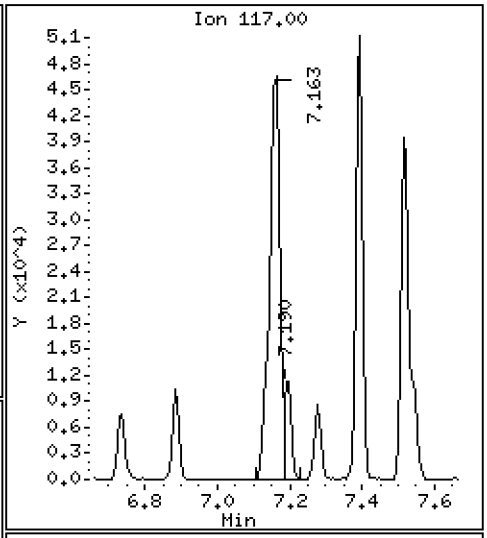
Sample Info: 2429302;;1;3;;LCS;1;

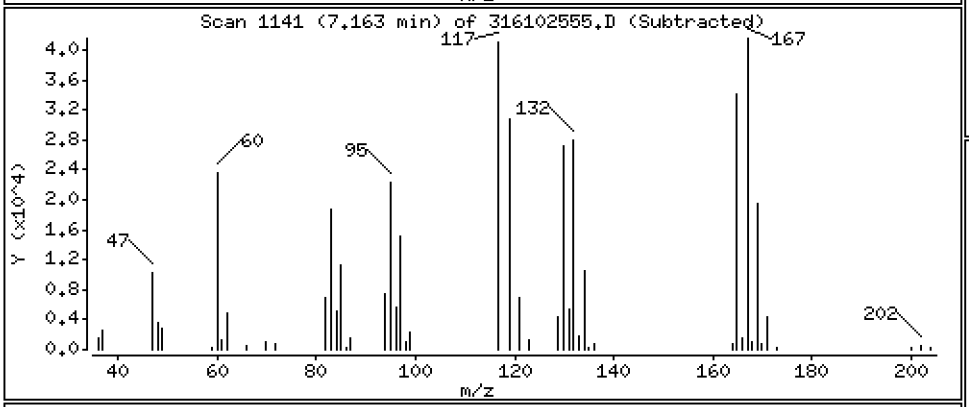
Purge Volume: 5.0 Operator: CJG

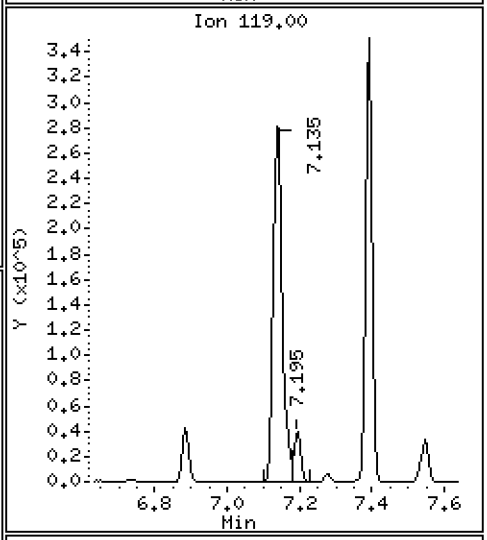
Column phase: DB-VRX Column diameter: 0.25

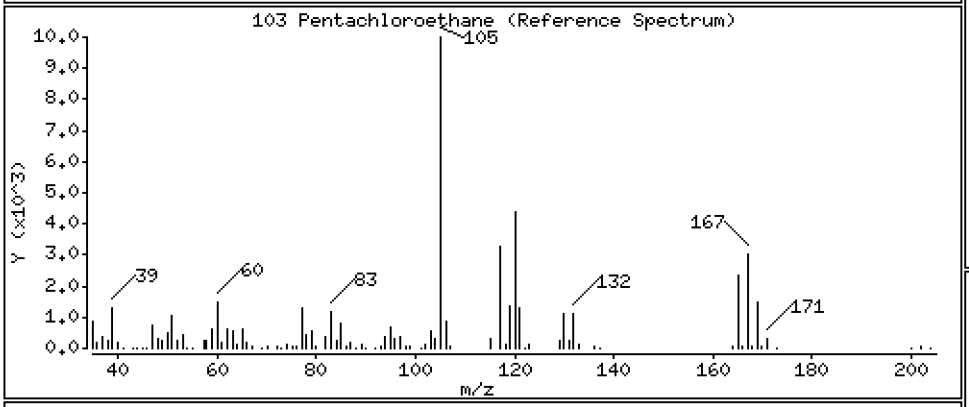
103 Pentachloroethane Concentration: 19.5575 ug/L

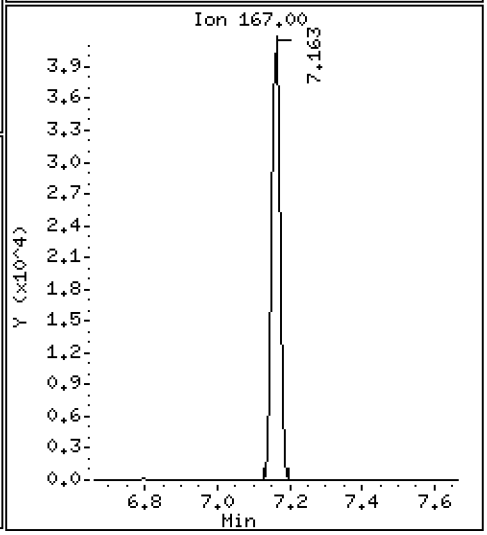


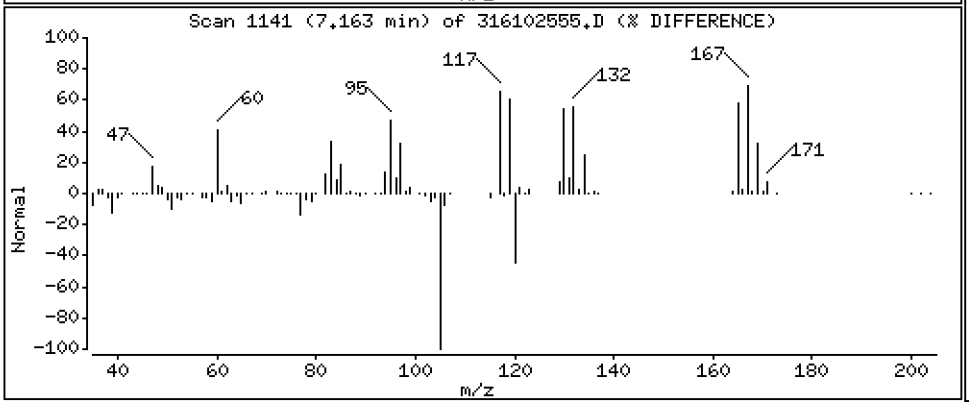












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 109

Date : 25-OCT-2016 23:28

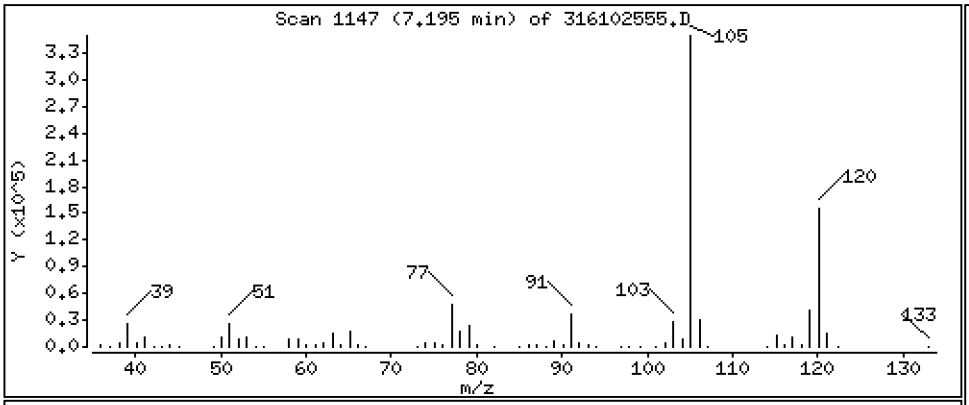
Client ID: LCS for HBN 174258 Instrument: ms03.i

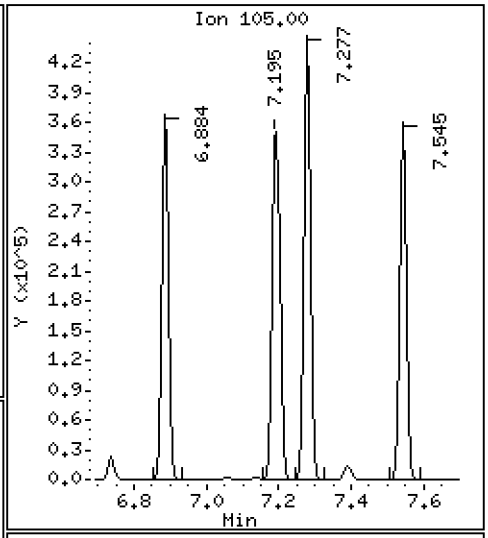
Sample Info: 2429302;;1;3;;LCS;1;

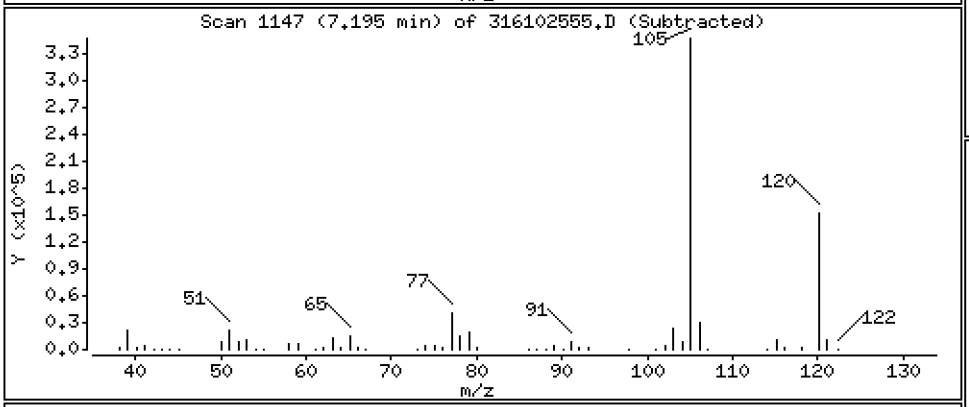
Purge Volume: 5.0 Operator: CJG

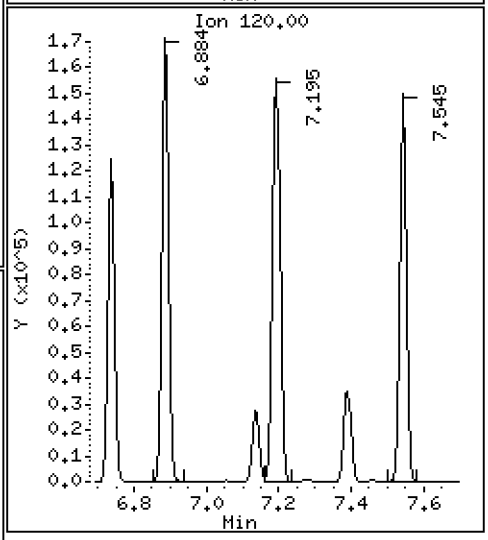
Column phase: DB-VRX Column diameter: 0.25

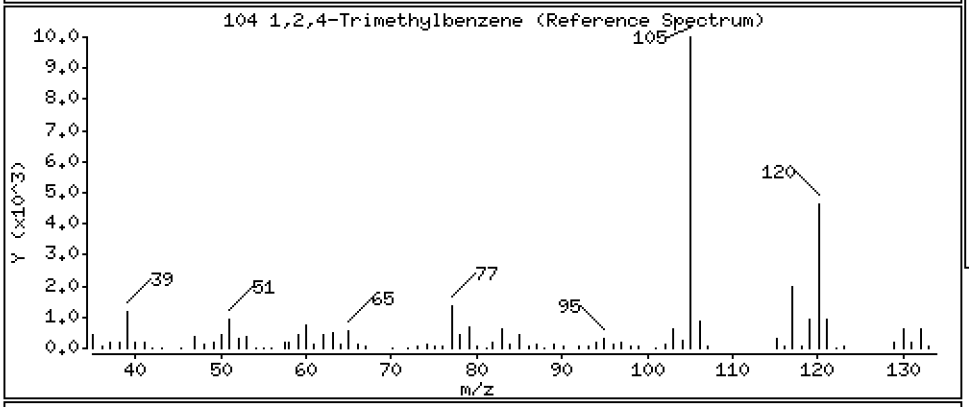
104 1,2,4-Trimethylbenzene Concentration: 20.8347 ug/L

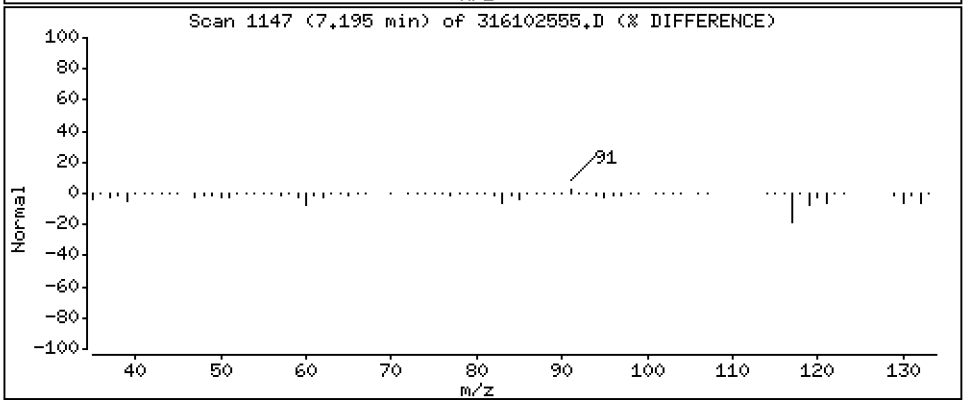












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 110

Date : 25-OCT-2016 23:28

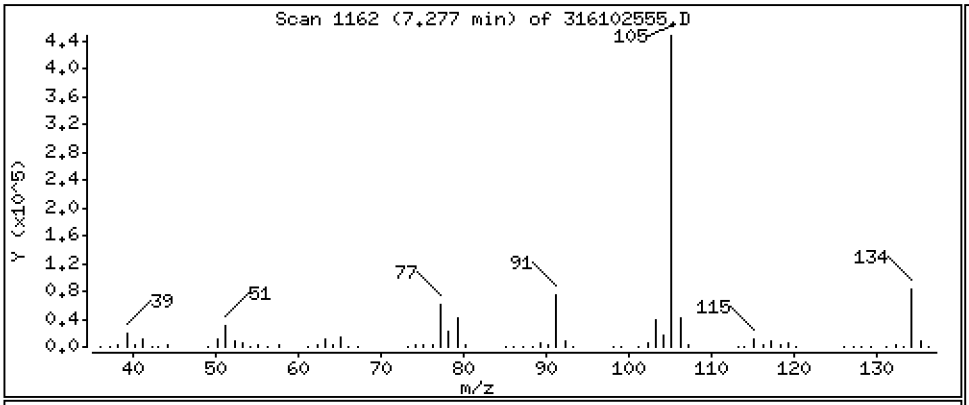
Client ID: LCS for HBN 174258 Instrument: ms03.i

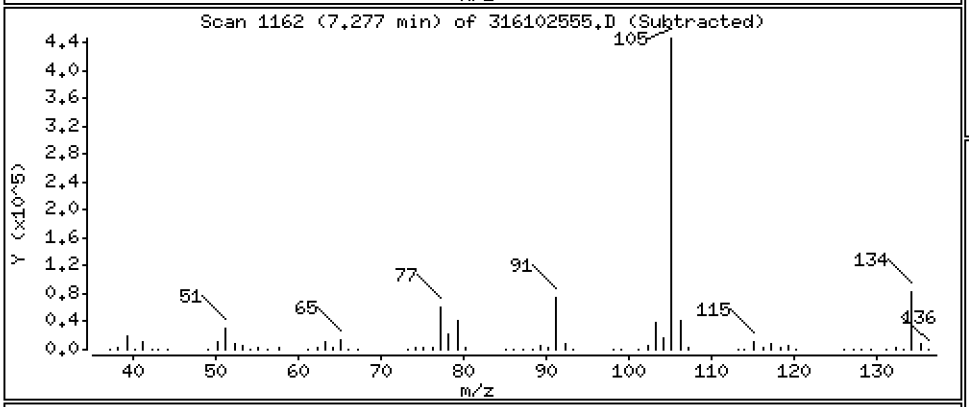
Sample Info: 2429302;;1;3;;LCS;1;

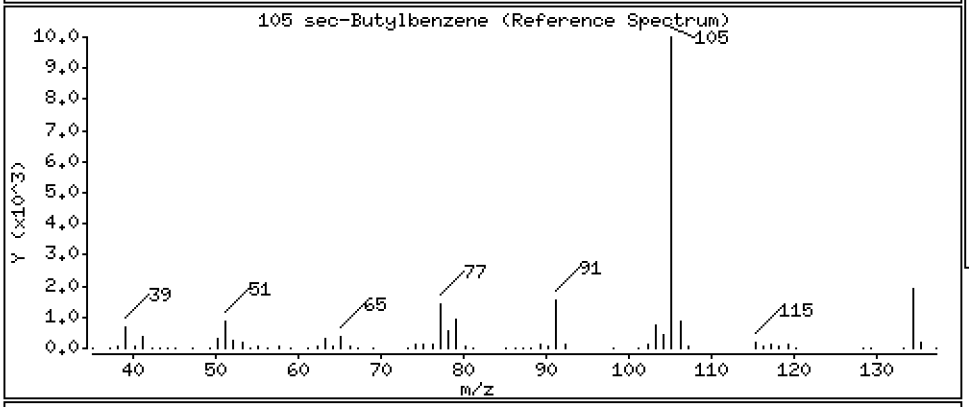
Purge Volume: 5.0 Operator: CJG

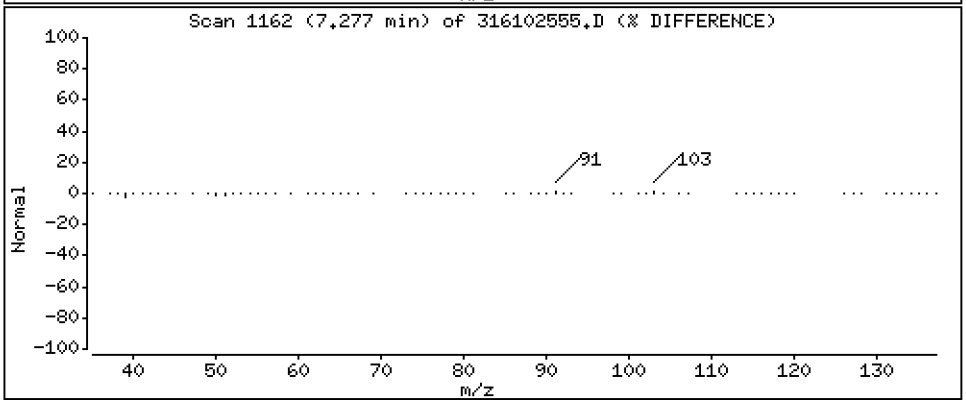
Column phase: DB-VRX Column diameter: 0.25

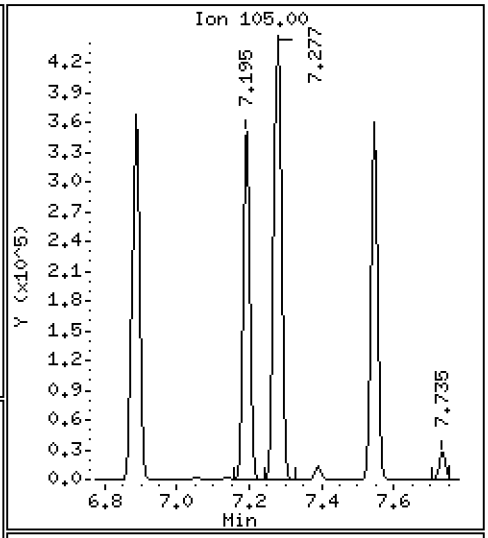
105 sec-Butylbenzene Concentration: 20.1002 ug/L

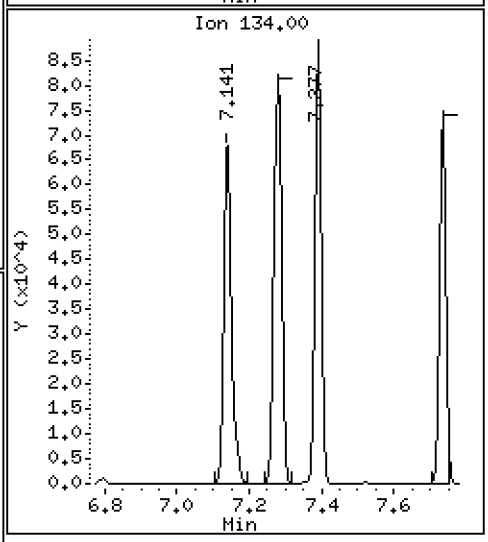












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 111

Date : 25-OCT-2016 23:28

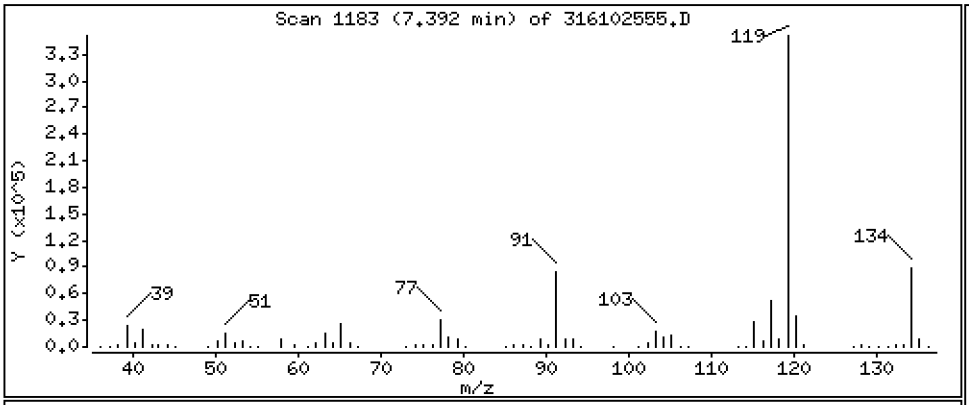
Client ID: LCS for HBN 174258 Instrument: ms03.i

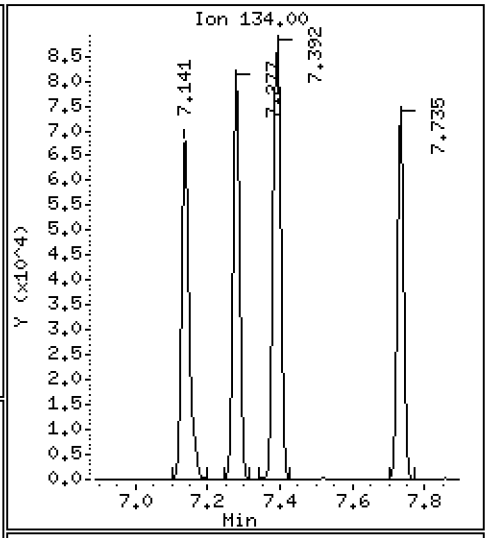
Sample Info: 2429302;;1;3;;LCS;1;

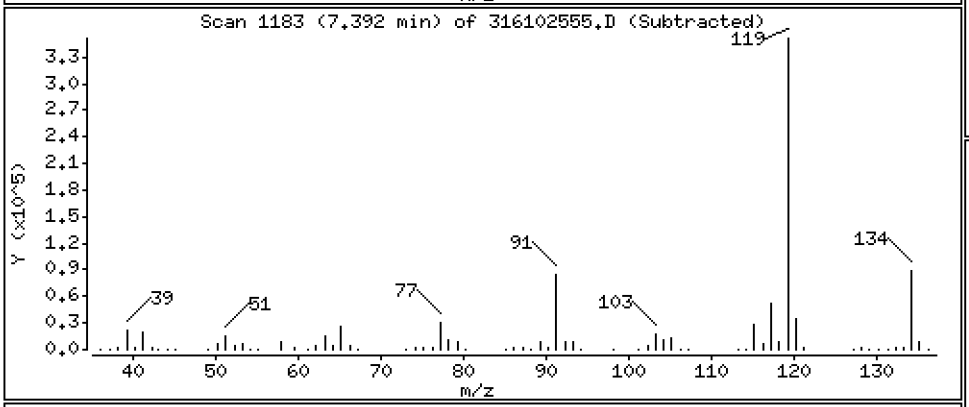
Purge Volume: 5.0 Operator: CJG

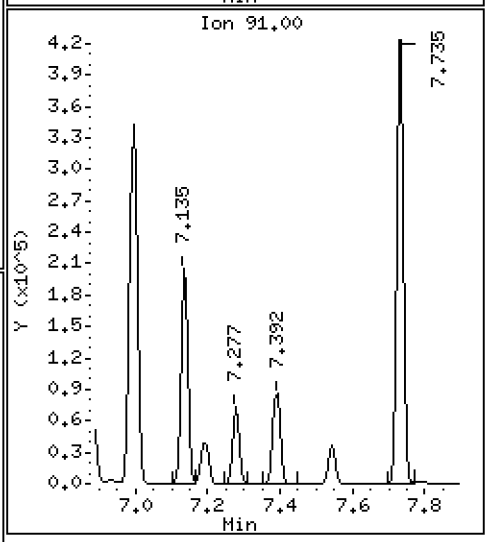
Column phase: DB-VRX Column diameter: 0.25

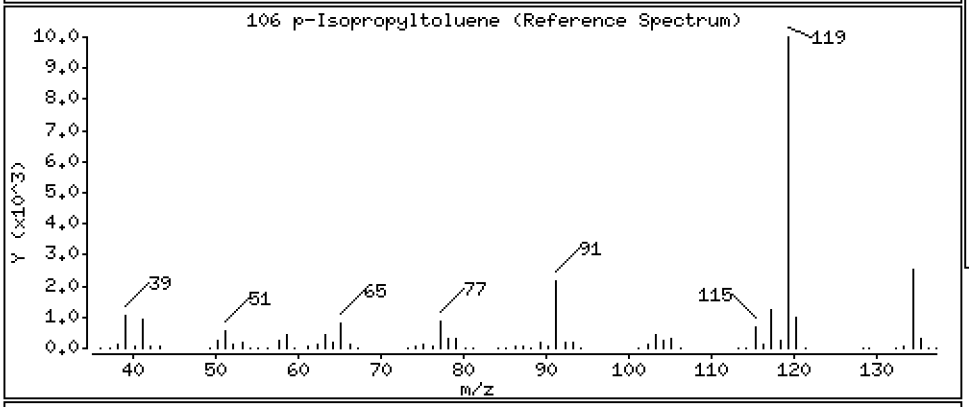
106 p-Isopropyltoluene Concentration: 20.2894 ug/L

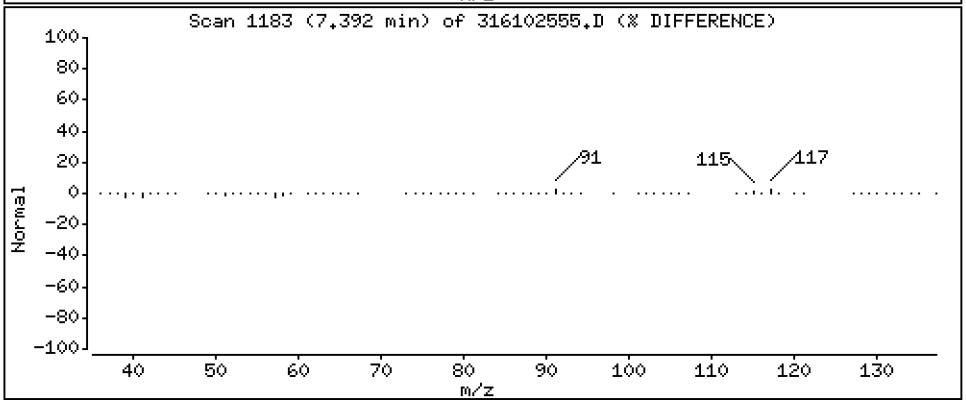












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 112

Date : 25-OCT-2016 23:28

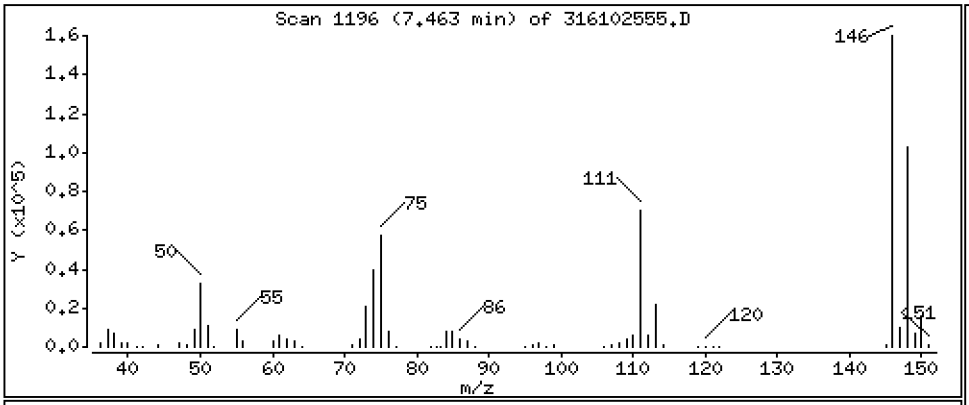
Client ID: LCS for HBN 174258 Instrument: ms03.i

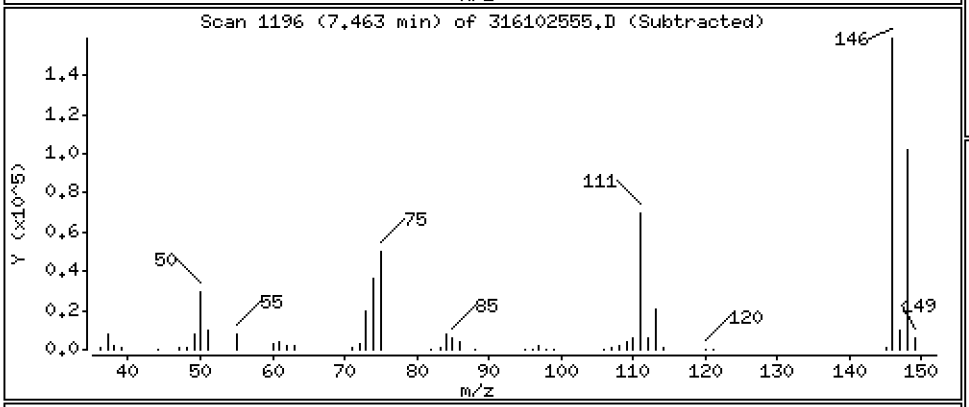
Sample Info: 2429302;;1;3;;LCS;1;

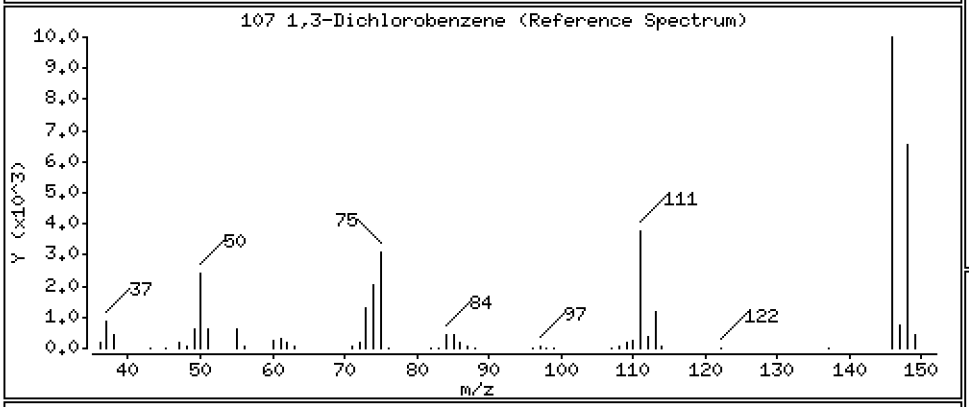
Purge Volume: 5.0 Operator: CJG

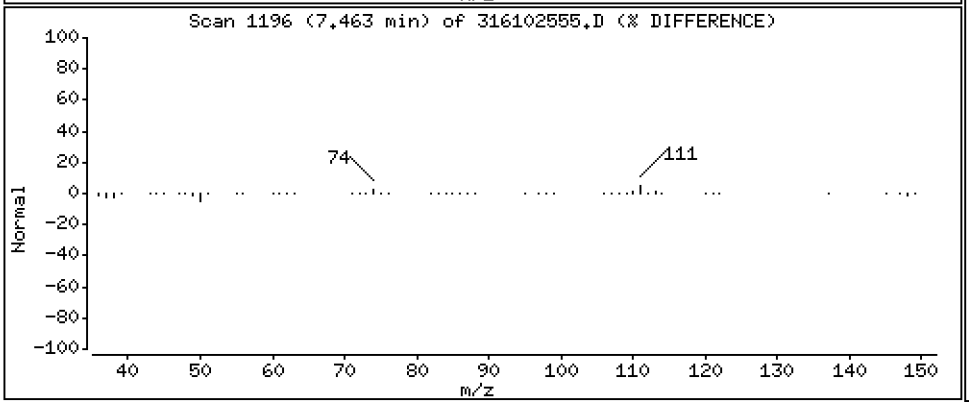
Column phase: DB-VRX Column diameter: 0.25

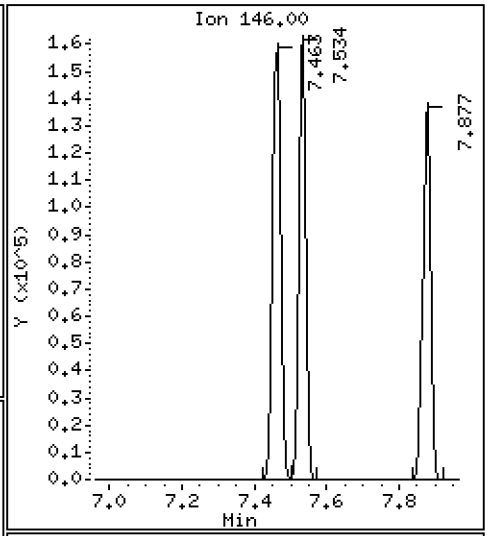
107 1,3-Dichlorobenzene Concentration: 20.2712 ug/L

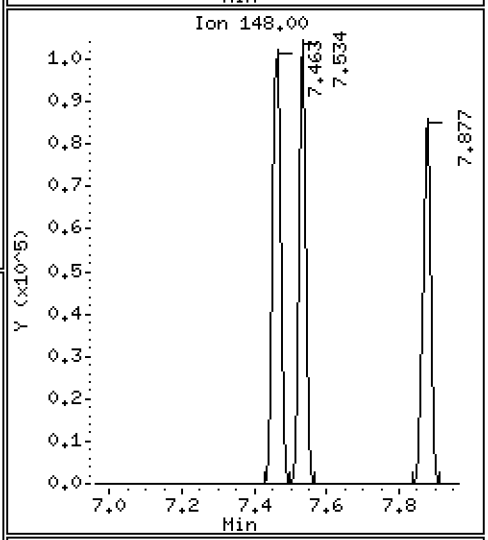


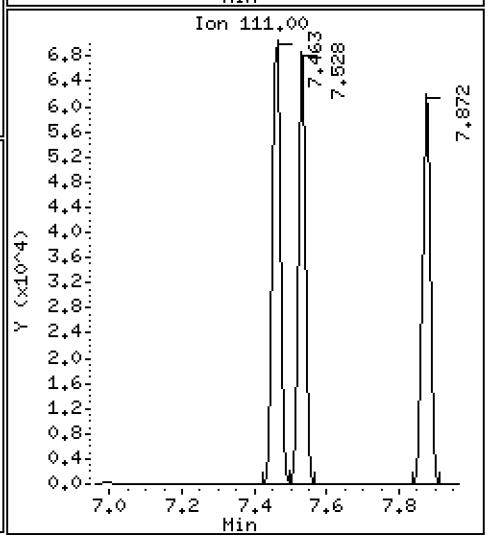












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 113

Date : 25-OCT-2016 23:28

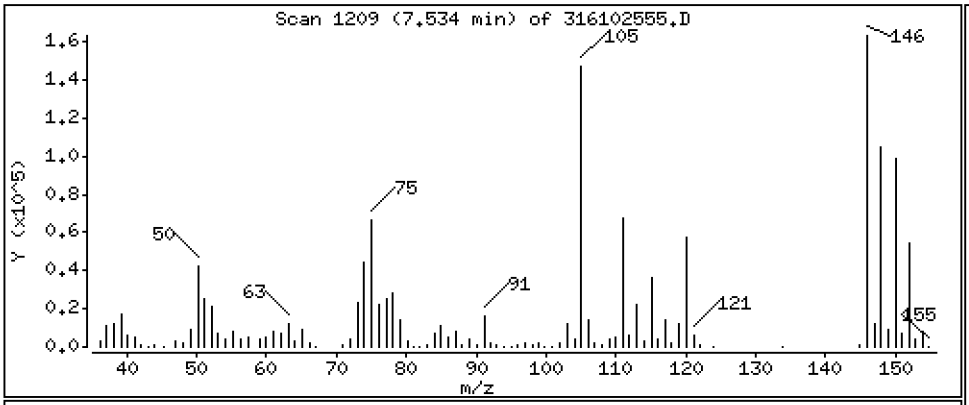
Client ID: LCS for HBN 174258 Instrument: ms03.i

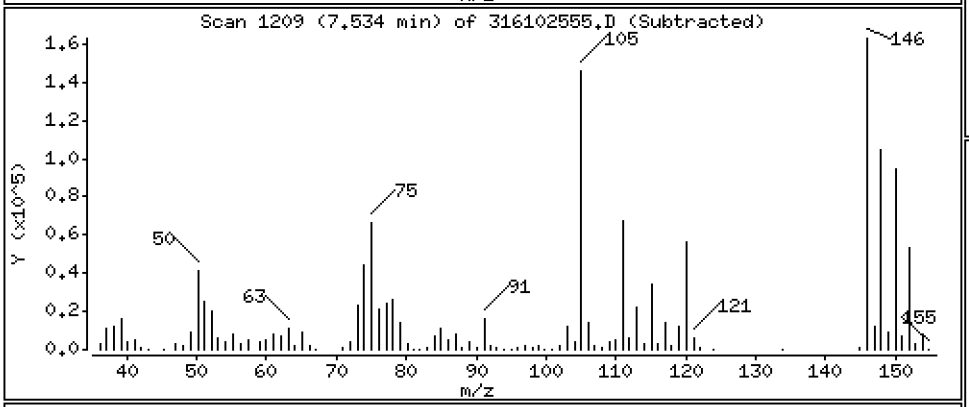
Sample Info: 2429302;;1;3;;LCS;1;

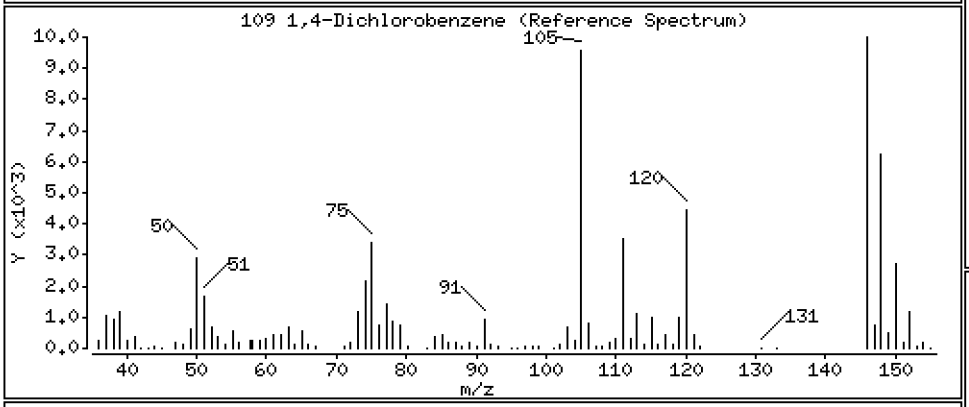
Purge Volume: 5.0 Operator: CJG

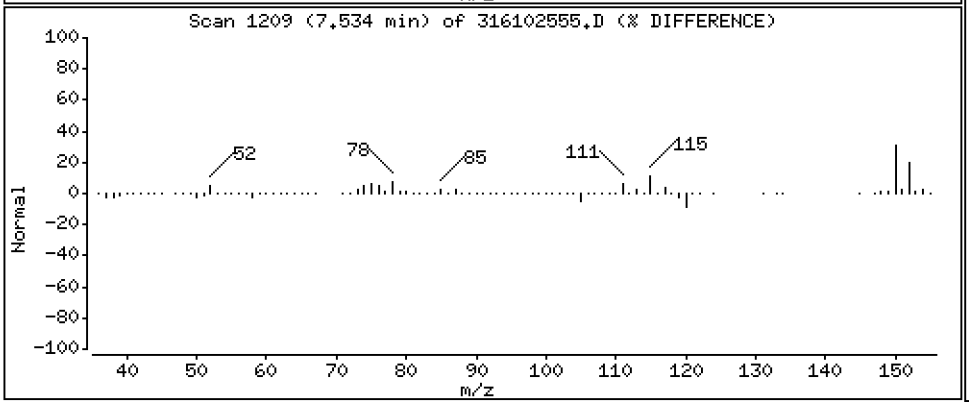
Column phase: DB-VRX Column diameter: 0.25

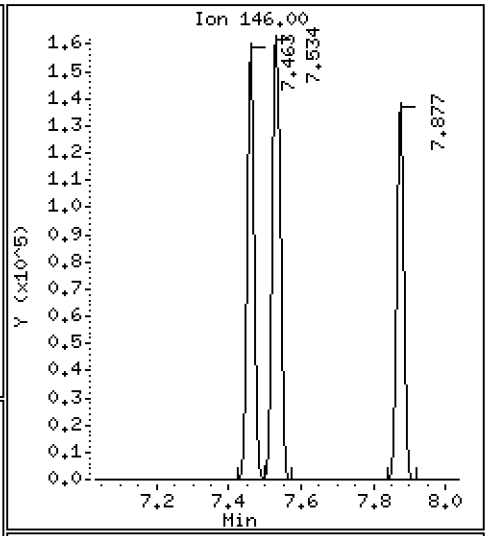
109 1,4-Dichlorobenzene Concentration: 20.4788 ug/L

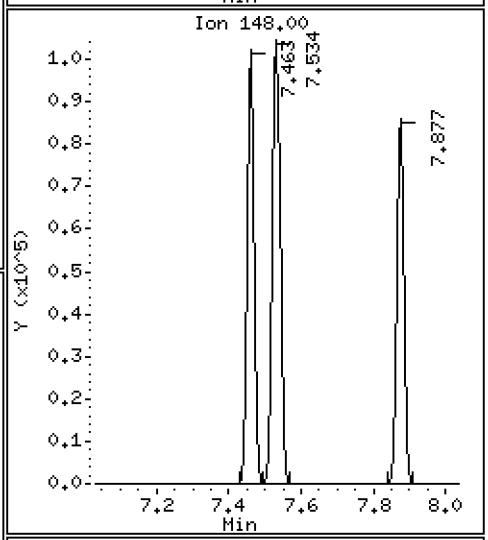


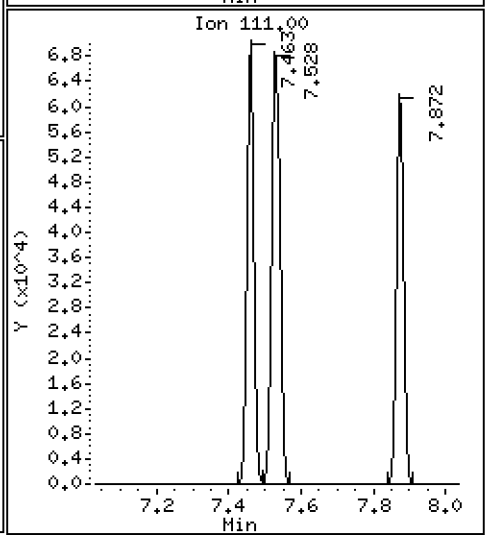












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 114

Date : 25-OCT-2016 23:28

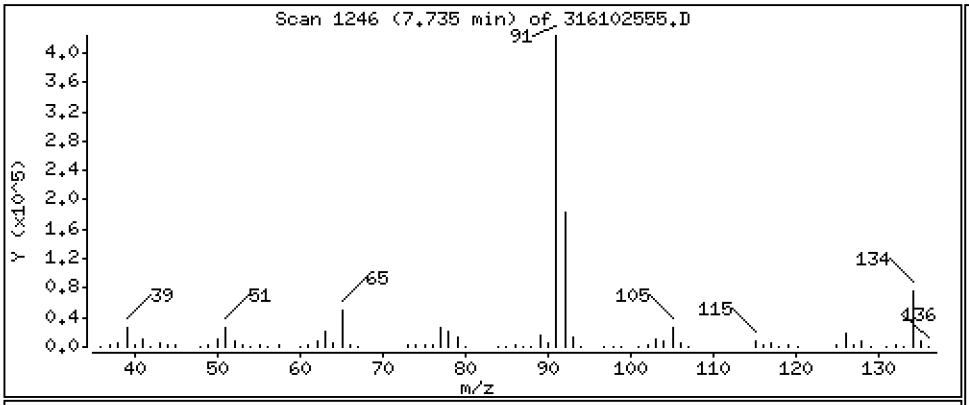
Client ID: LCS for HBN 174258 Instrument: ms03.i

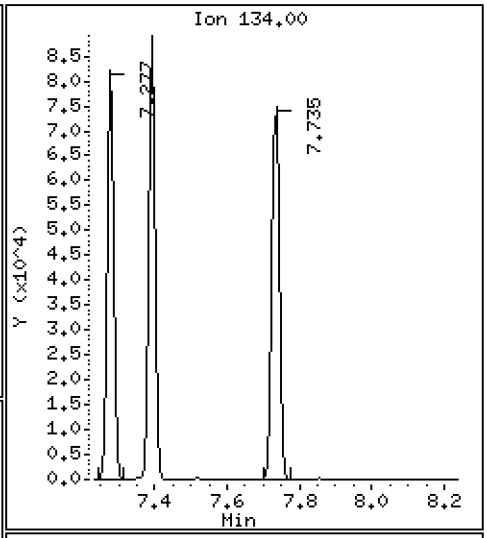
Sample Info: 2429302;;1;3;;LCS;1;

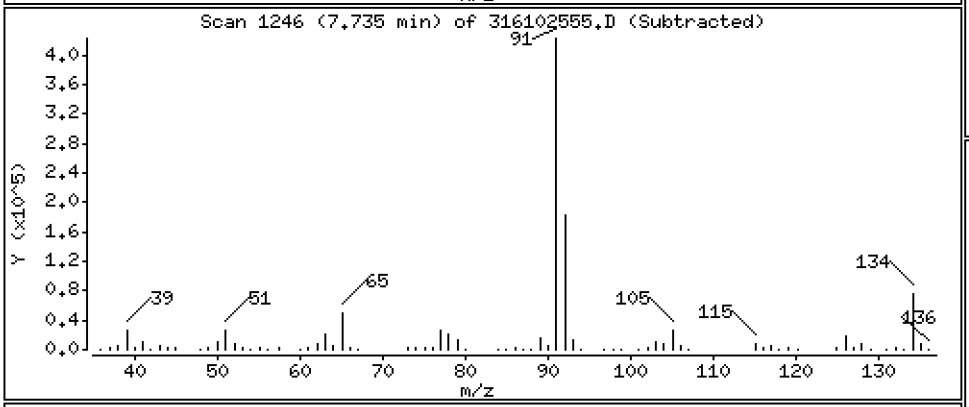
Purge Volume: 5.0 Operator: CJG

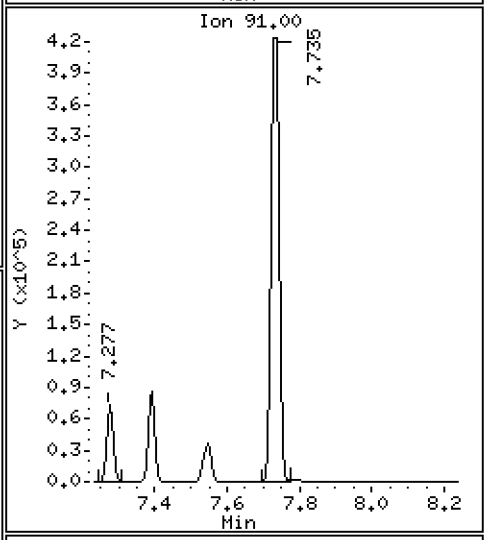
Column phase: DB-VRX Column diameter: 0.25

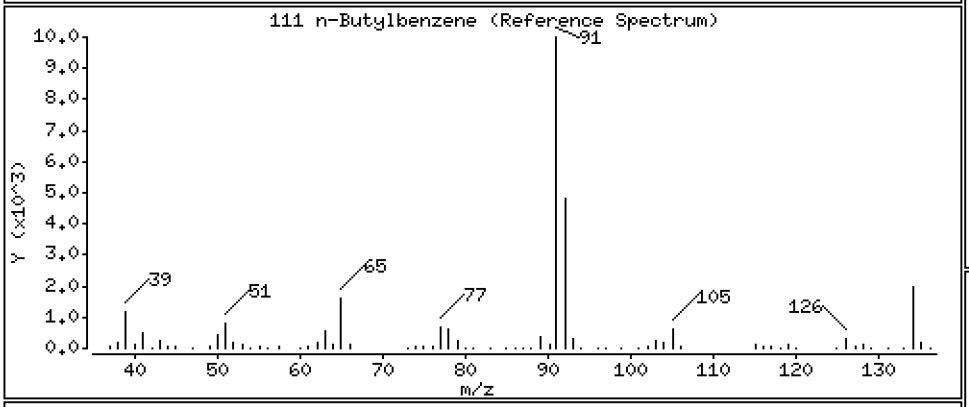
111 n-Butylbenzene Concentration: 19.2494 ug/L

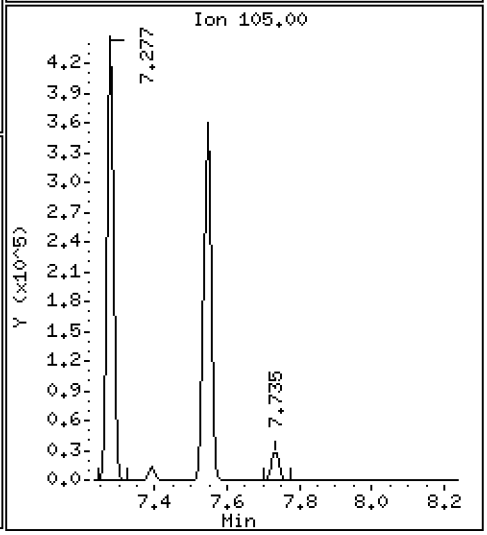


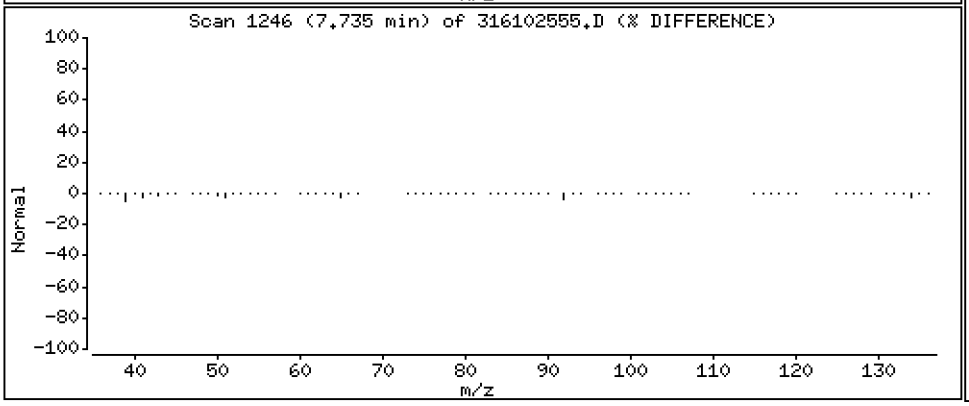












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 115

Date : 25-OCT-2016 23:28

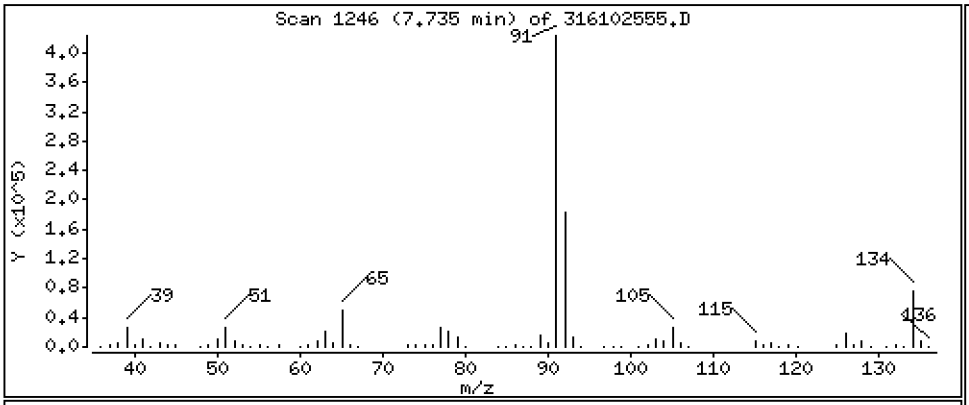
Client ID: LCS for HBN 174258 Instrument: ms03.i

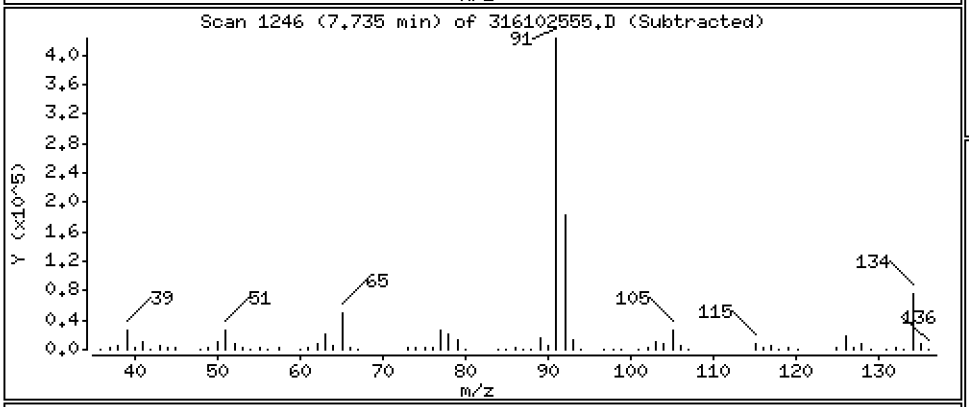
Sample Info: 2429302;;1;3;;LCS;1;

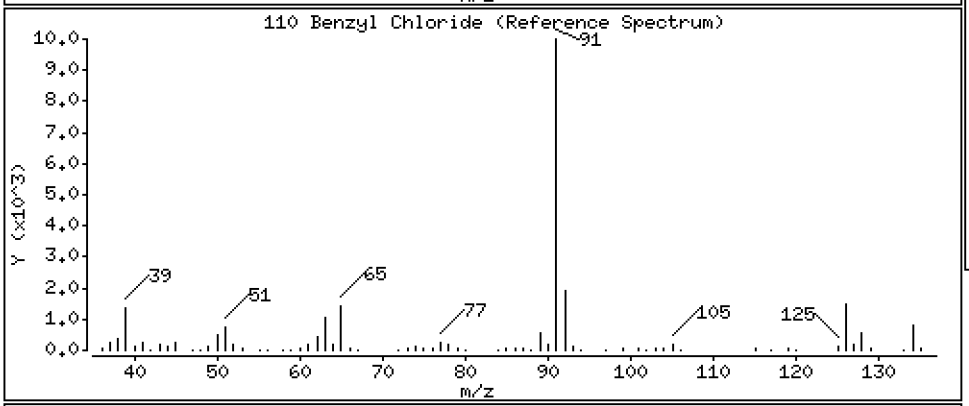
Purge Volume: 5.0 Operator: CJG

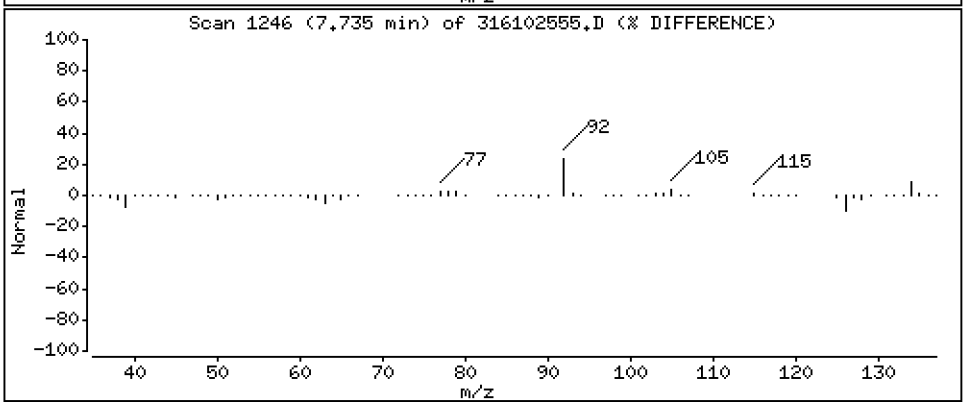
Column phase: DB-VRX Column diameter: 0.25

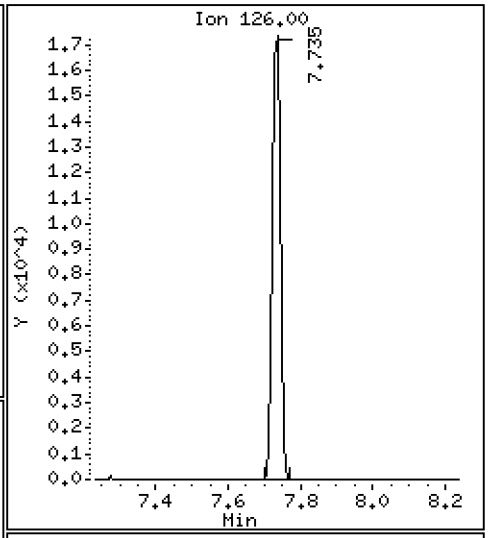
110 Benzyl Chloride Concentration: 16.8535 ug/L

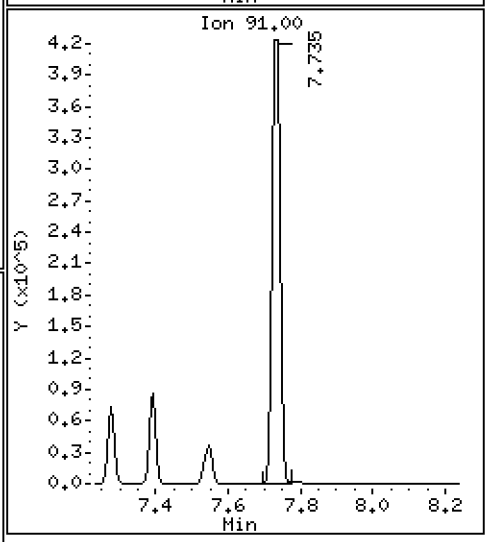












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 116

Date : 25-OCT-2016 23:28

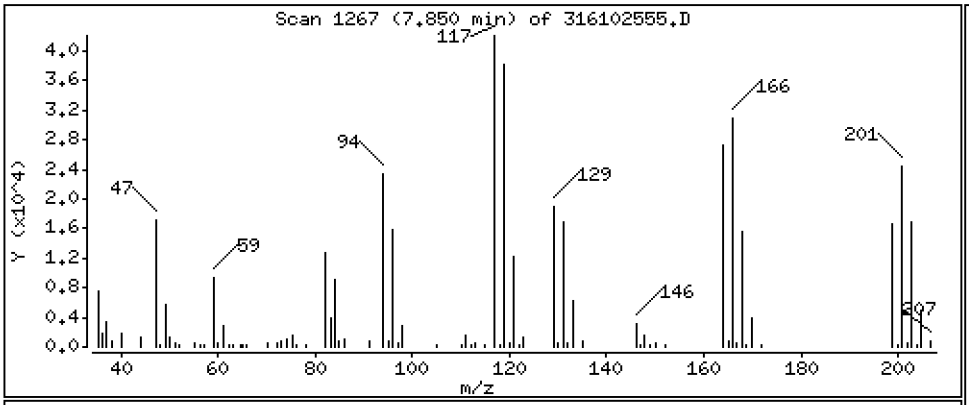
Client ID: LCS for HBN 174258 Instrument: ms03.i

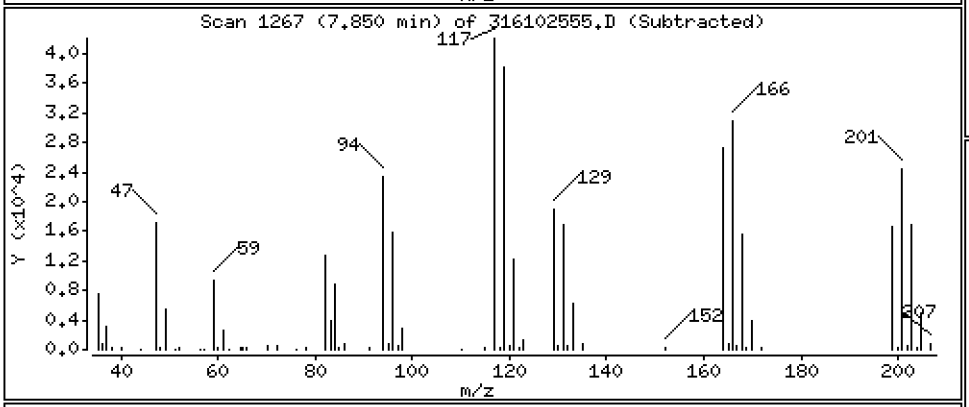
Sample Info: 2429302::1:3::LCS:1:

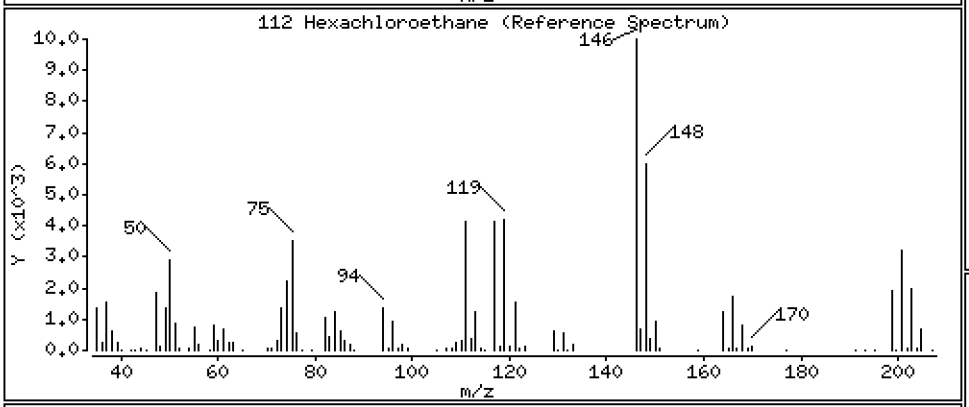
Purge Volume: 5.0 Operator: CJG

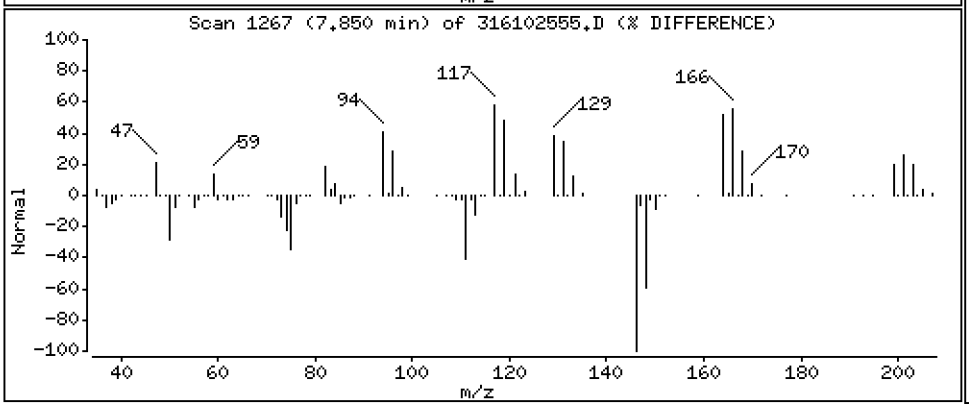
Column phase: DB-VRX Column diameter: 0.25

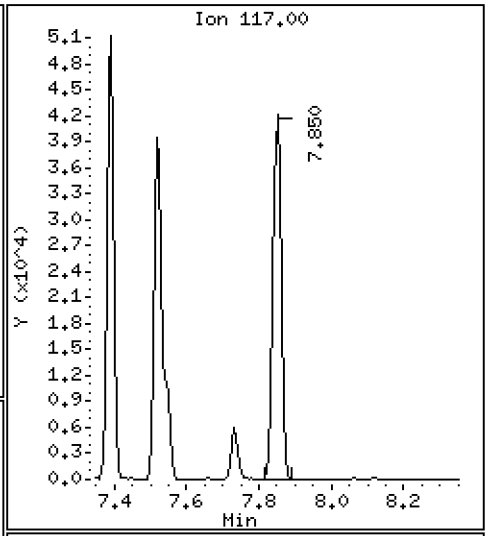
112 Hexachloroethane Concentration: 17.5102 ug/L

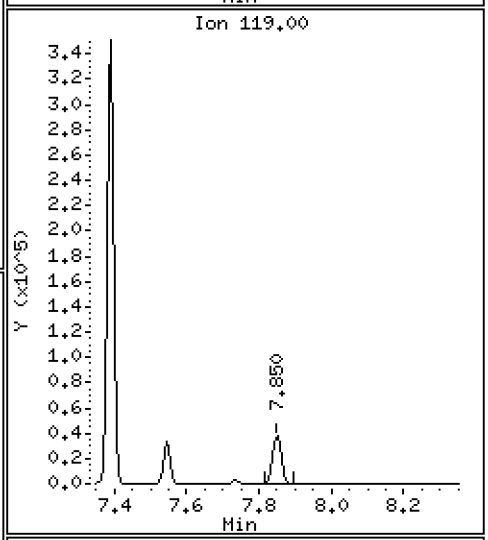


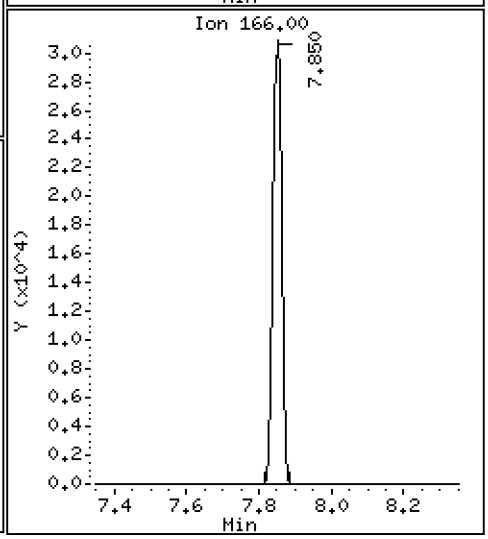












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 117

Date : 25-OCT-2016 23:28

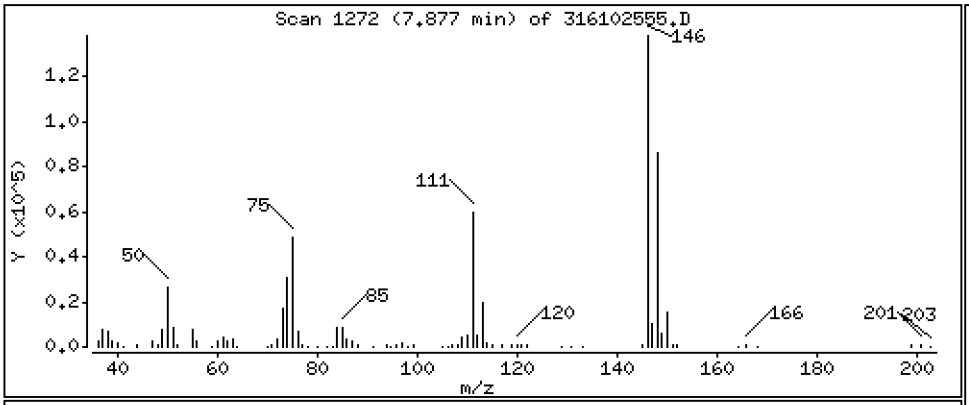
Client ID: LCS for HBN 174258 Instrument: ms03.i

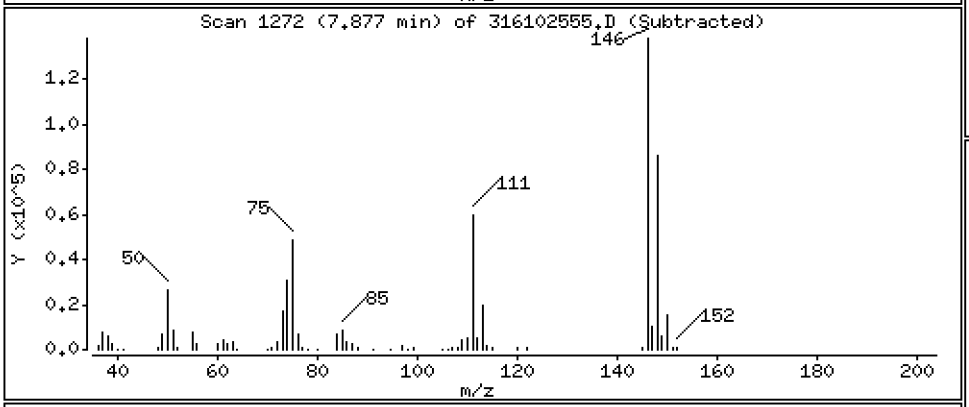
Sample Info: 2429302;;1;3;;LCS;1;

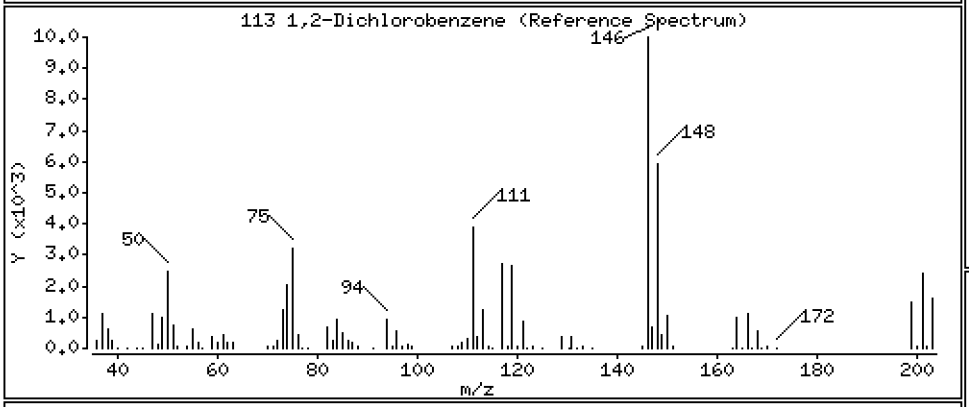
Purge Volume: 5.0 Operator: CJG

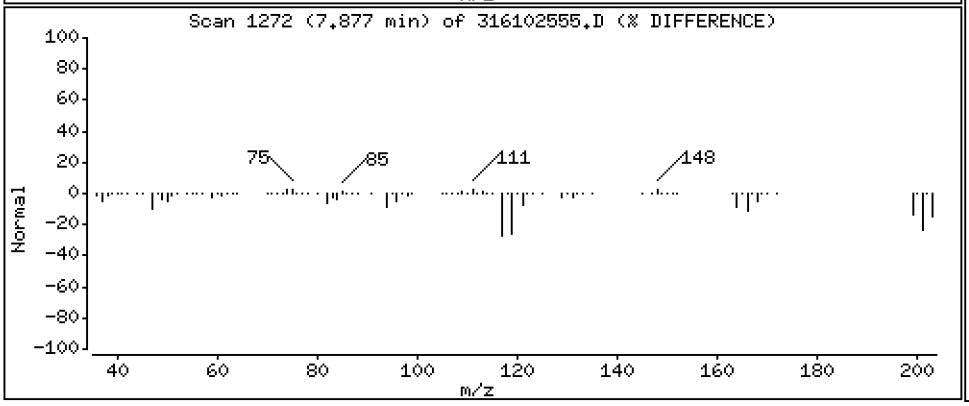
Column phase: DB-VRX Column diameter: 0.25

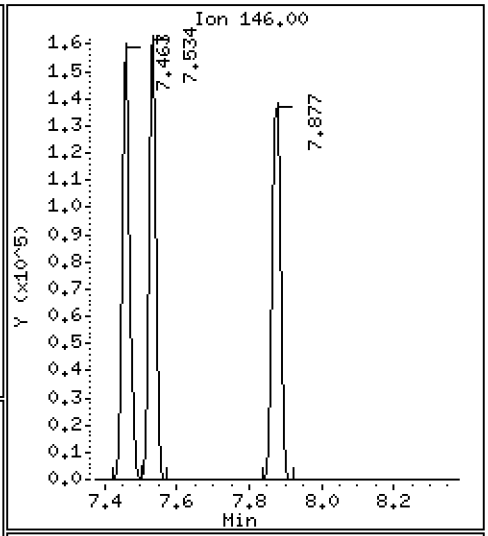
113 1,2-Dichlorobenzene Concentration: 20.0271 ug/L

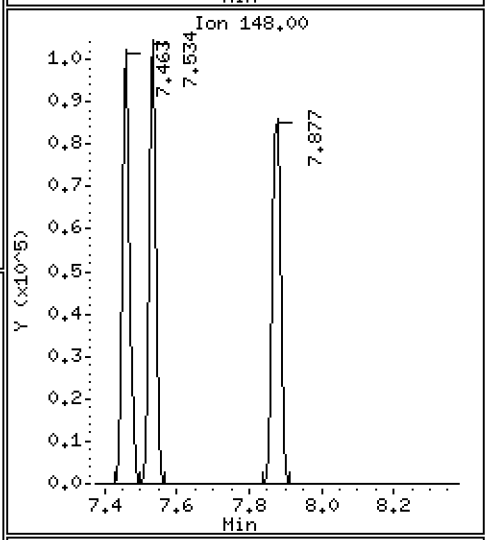


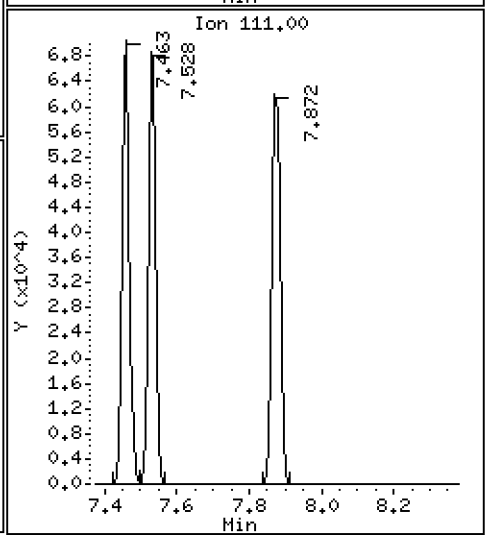












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 118

Date : 25-OCT-2016 23:28

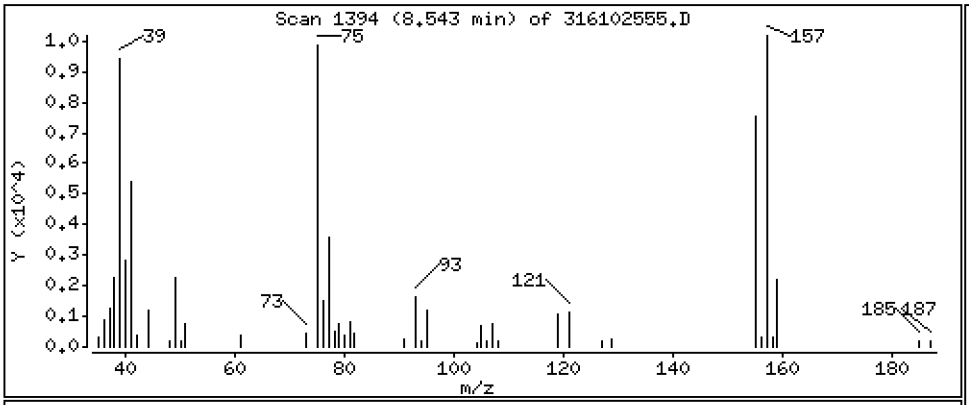
Client ID: LCS for HBN 174258 Instrument: ms03.i

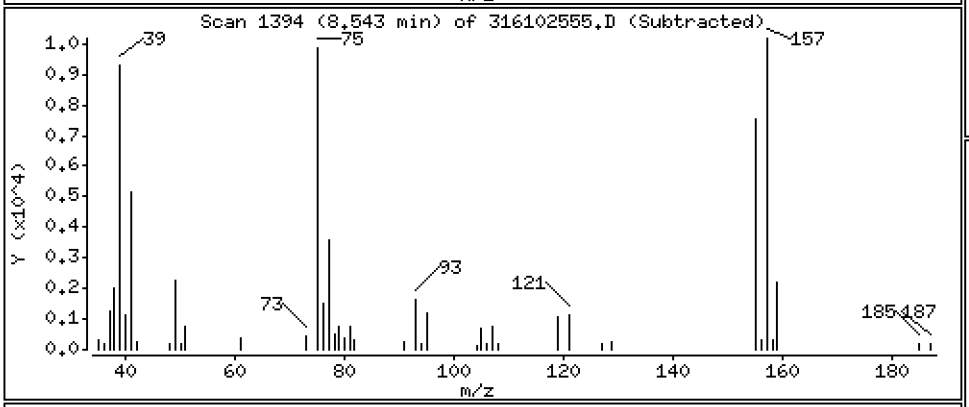
Sample Info: 2429302;;1;3;;LCS;1;

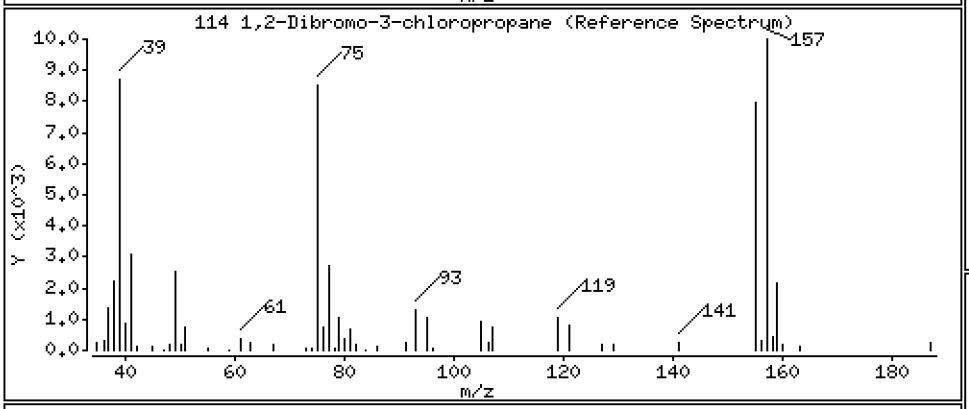
Purge Volume: 5.0 Operator: CJG

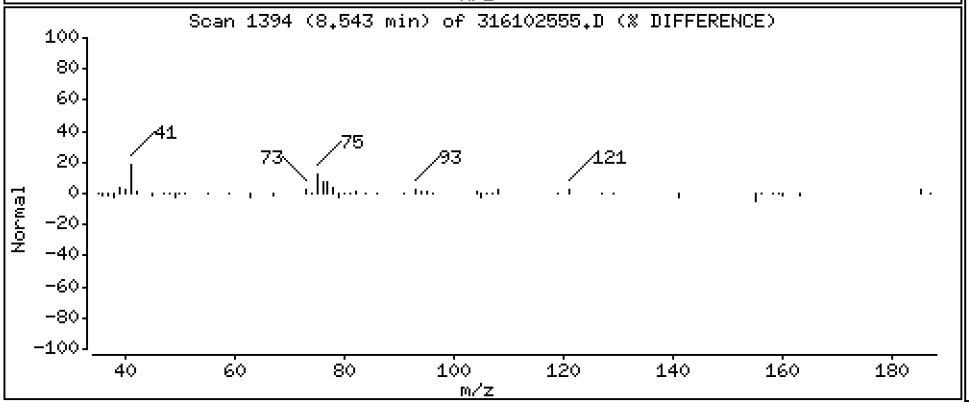
Column phase: DB-VRX Column diameter: 0.25

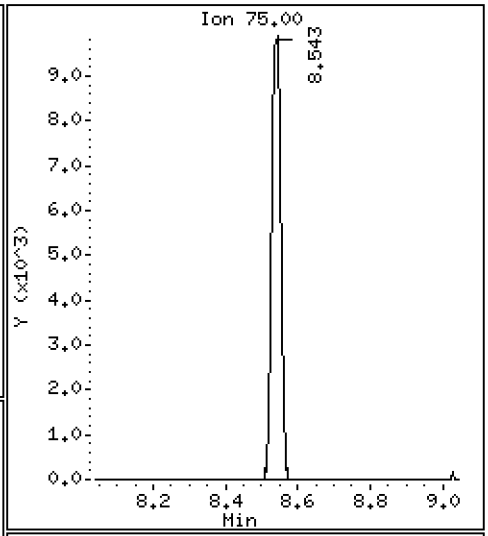
114 1,2-Dibromo-3-chloropropane Concentration: 19.1928 ug/L

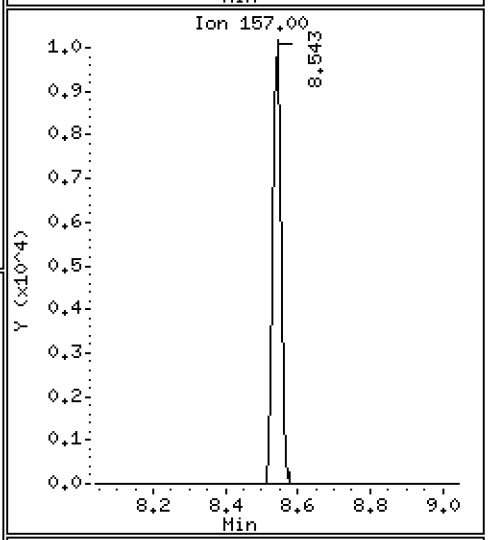


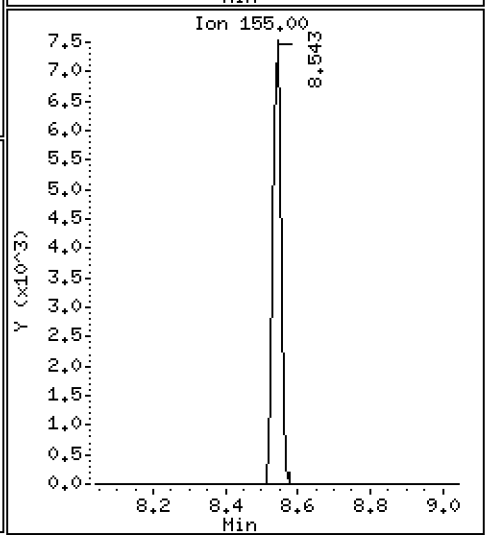












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 119

Date : 25-OCT-2016 23:28

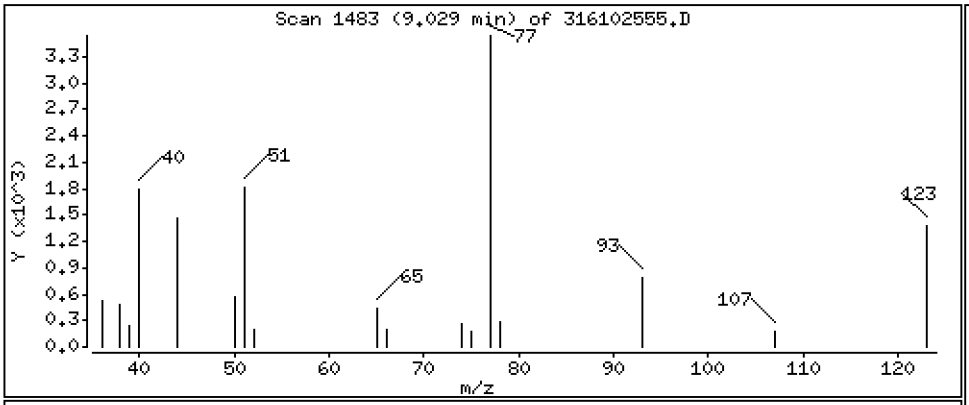
Client ID: LCS for HBN 174258 Instrument: ms03.i

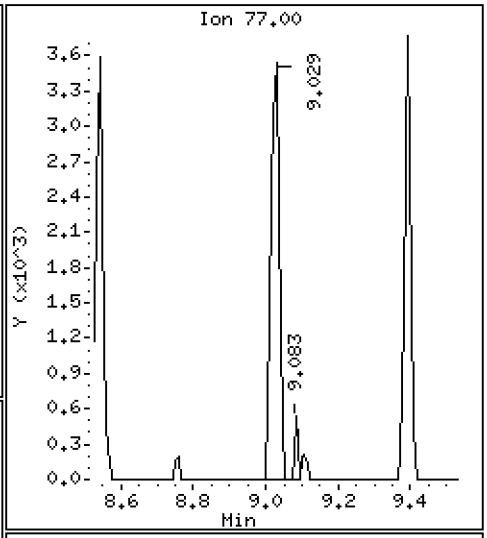
Sample Info: 2429302;;1;3;;LCS;1;

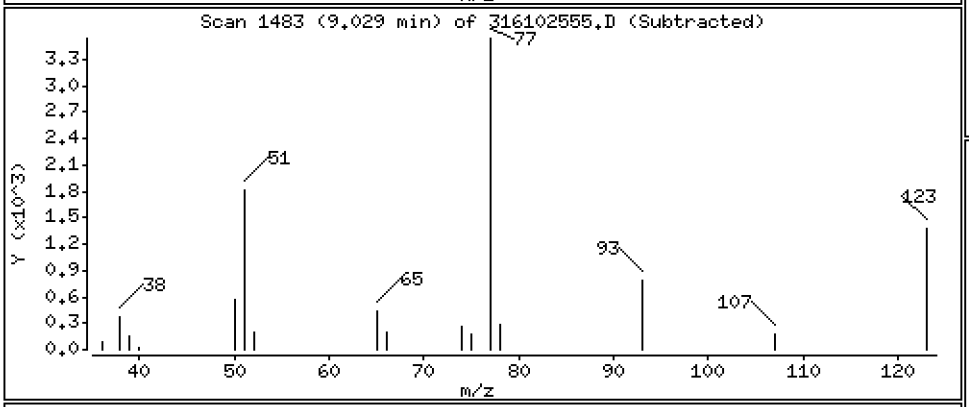
Purge Volume: 5.0 Operator: CJG

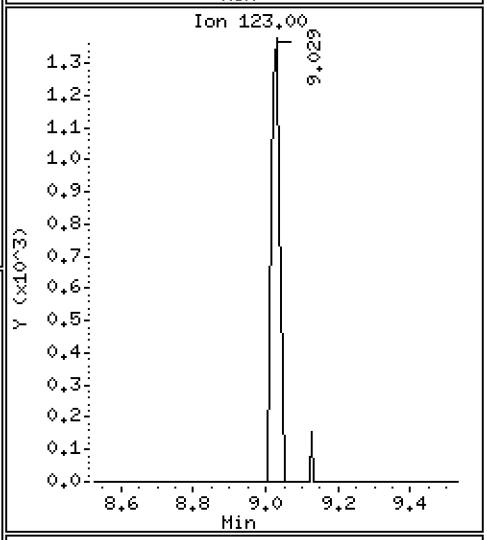
Column phase: DB-VRX Column diameter: 0.25

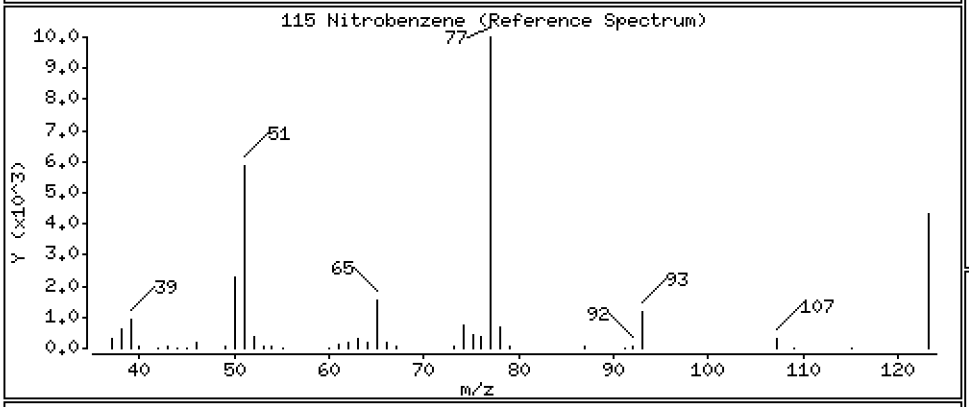
115 Nitrobenzene Concentration: 279.253 ug/L

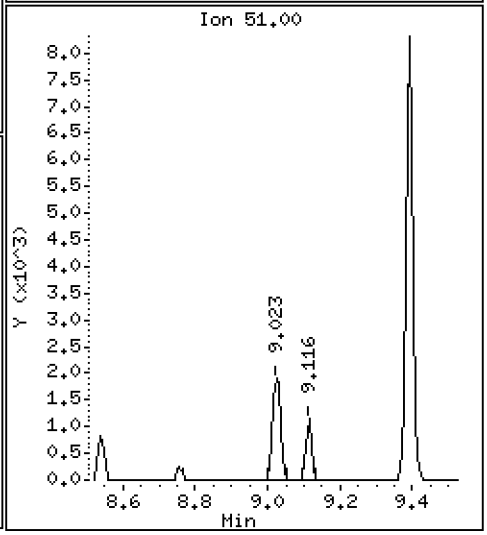


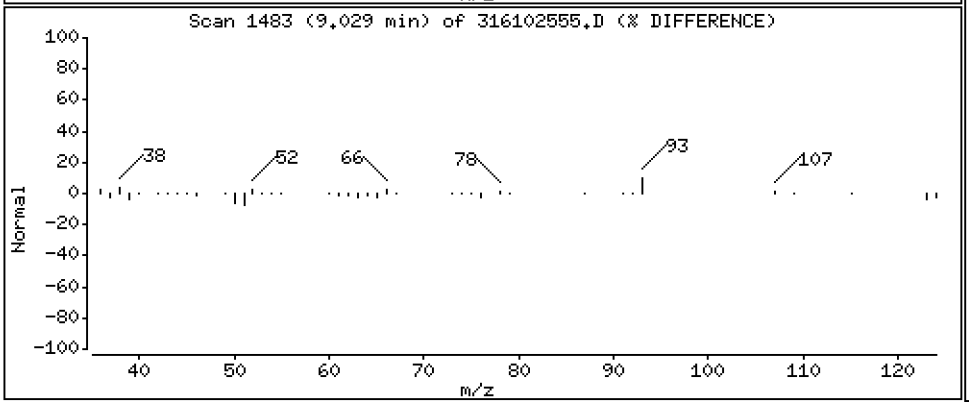












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 120

Date : 25-OCT-2016 23:28

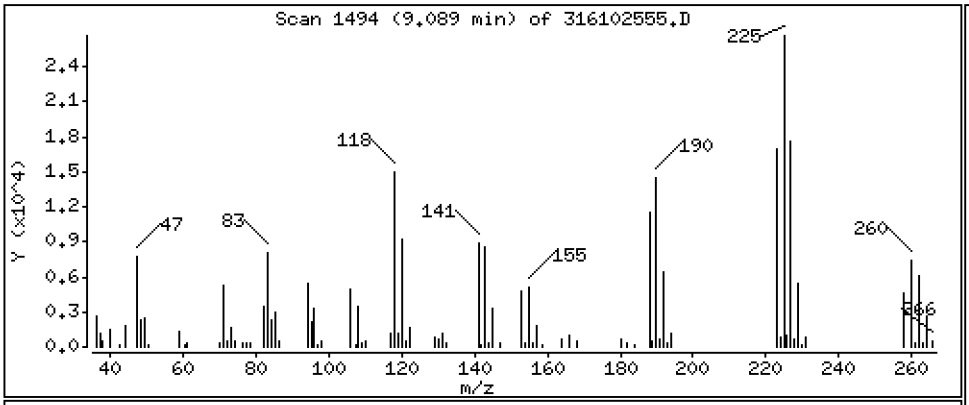
Client ID: LCS for HBN 174258 Instrument: ms03.i

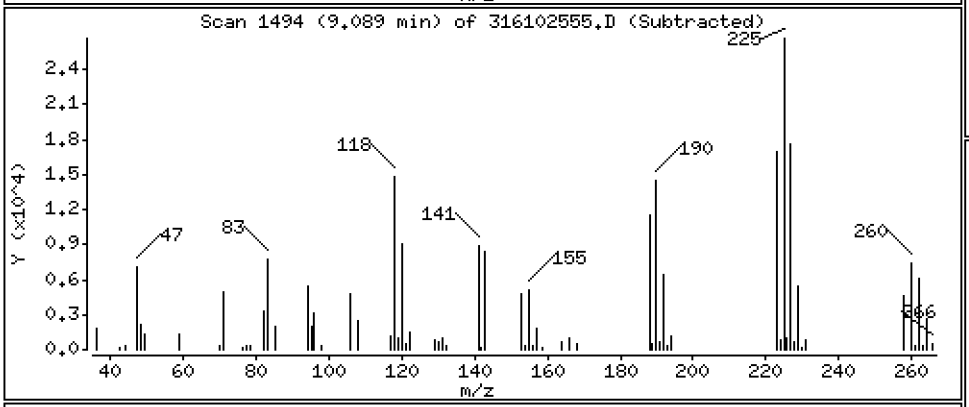
Sample Info: 2429302;;1;3;;LCS;1;

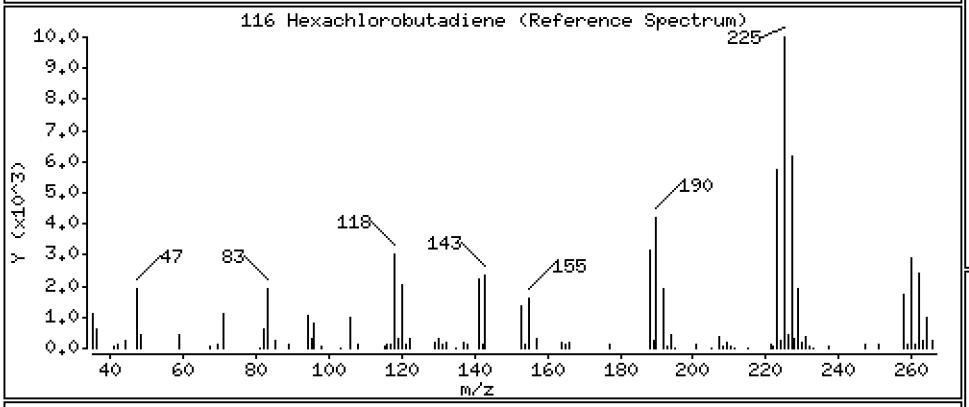
Purge Volume: 5.0 Operator: CJG

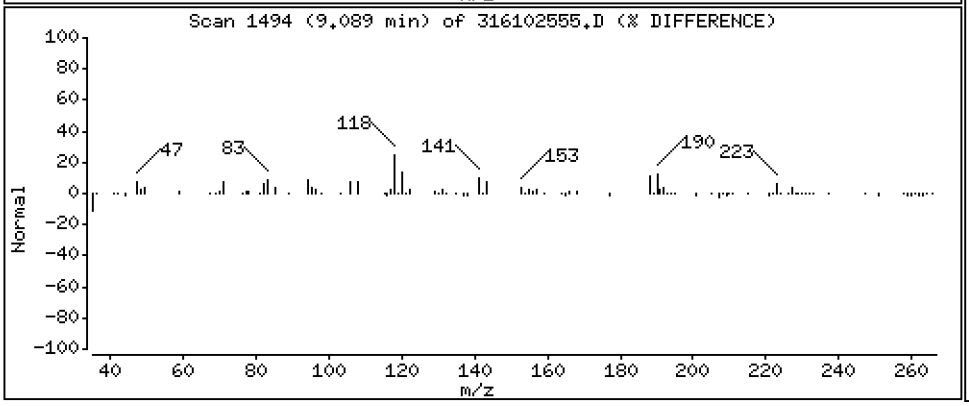
Column phase: DB-VRX Column diameter: 0.25

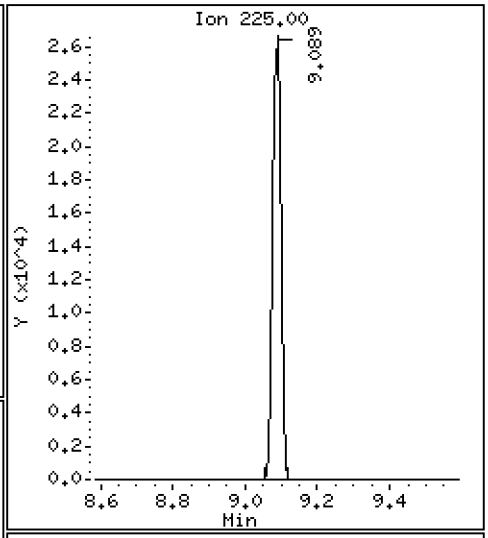
116 Hexachlorobutadiene Concentration: 20.3156 ug/L

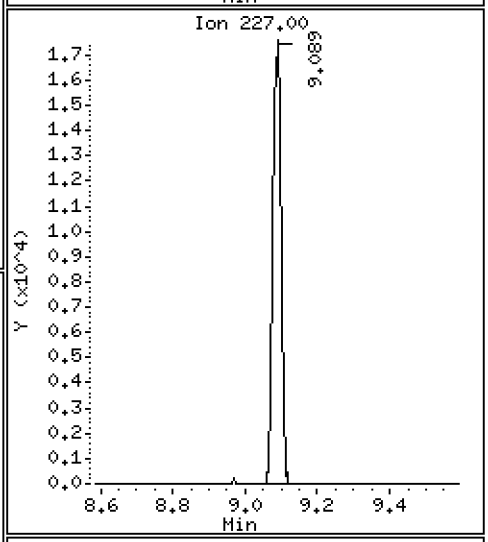


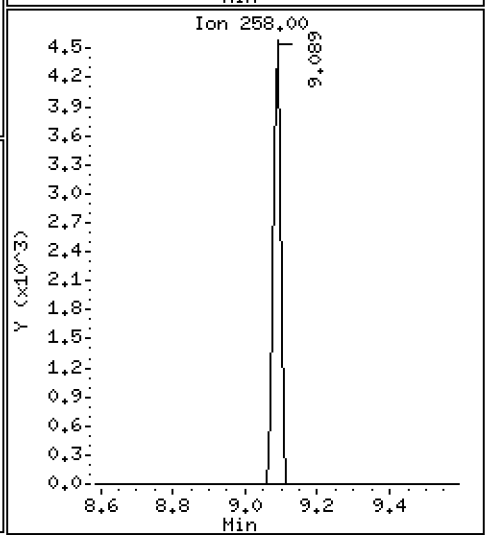












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 121

Date : 25-OCT-2016 23:28

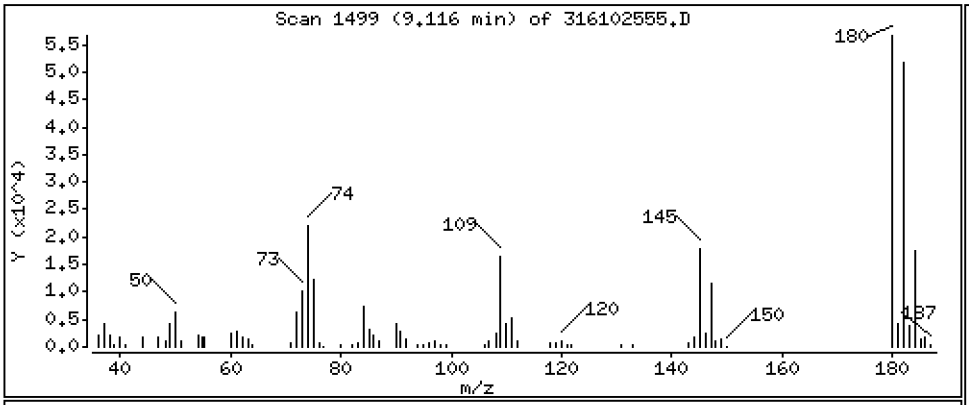
Client ID: LCS for HBN 174258 Instrument: ms03.i

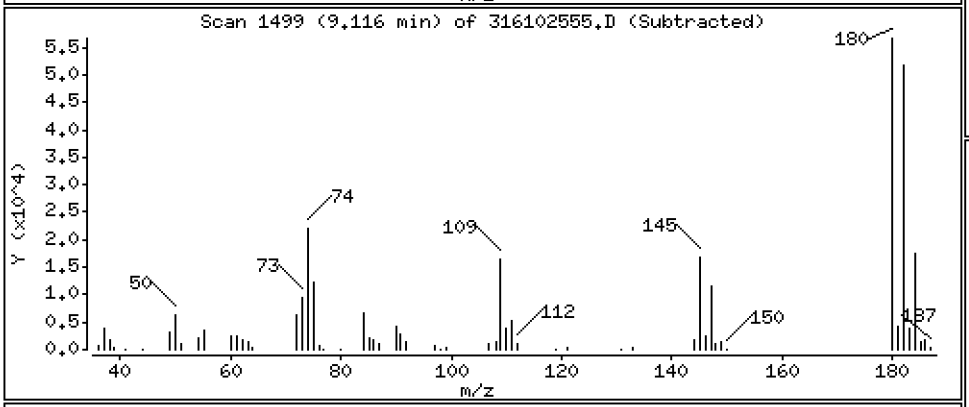
Sample Info: 2429302;;1;3;;LCS;1;

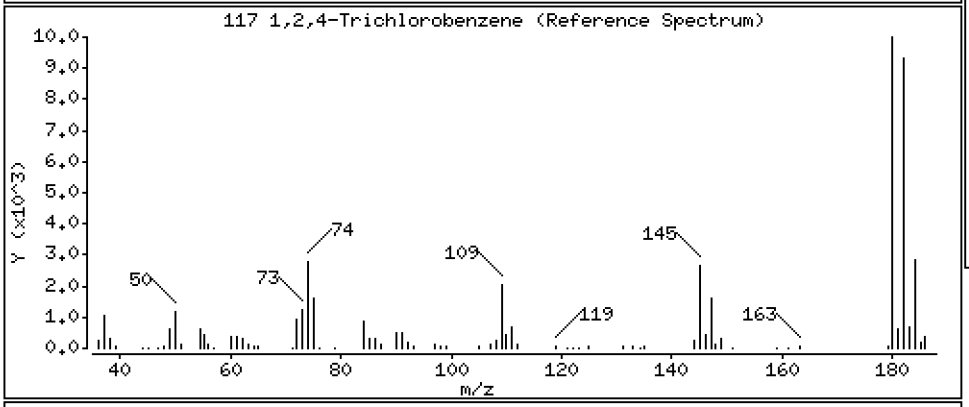
Purge Volume: 5.0 Operator: CJG

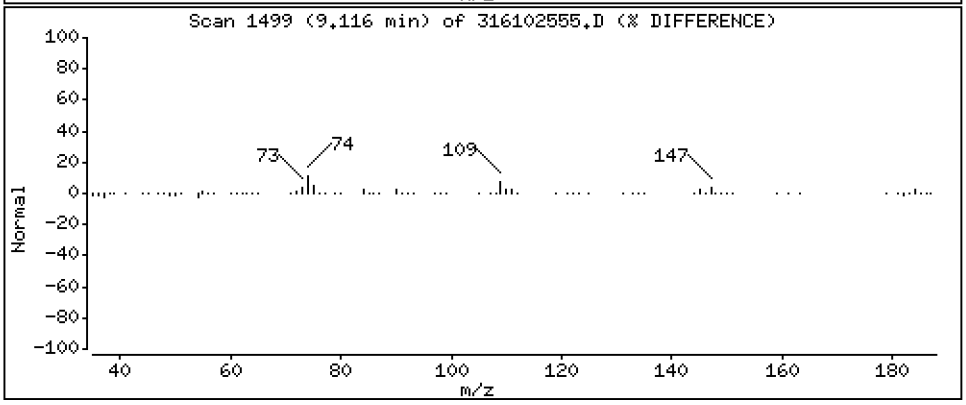
Column phase: DB-VRX Column diameter: 0.25

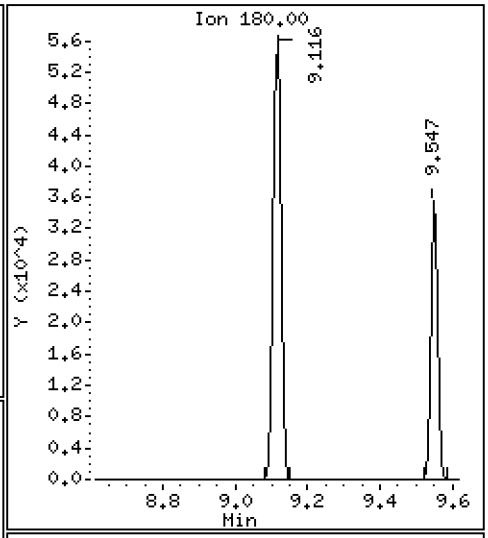
117 1,2,4-Trichlorobenzene Concentration: 18.2520 ug/L

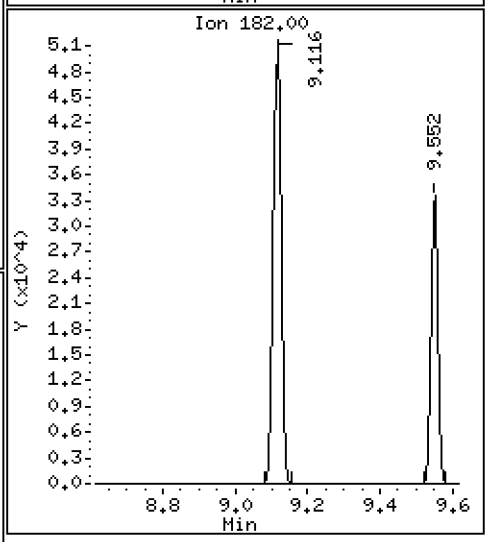












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 122

Date : 25-OCT-2016 23:28

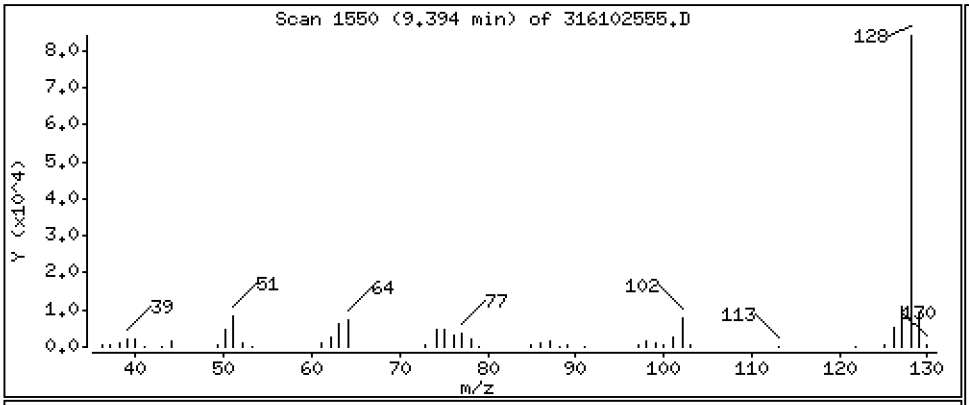
Client ID: LCS for HBN 174258 Instrument: ms03.i

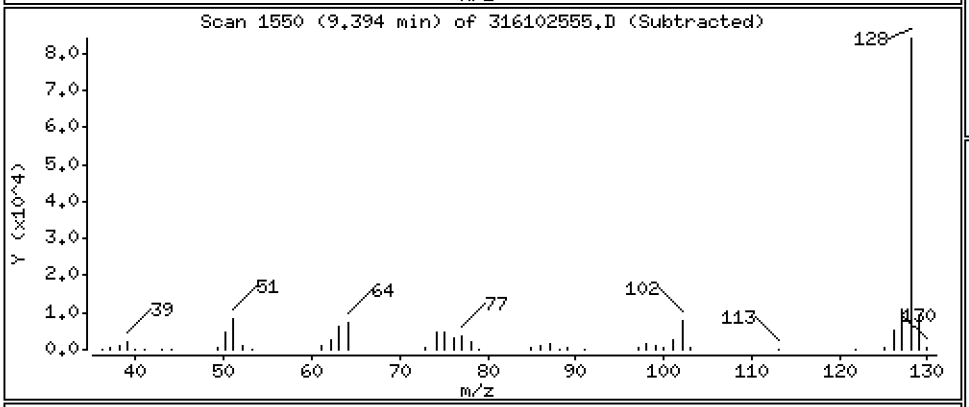
Sample Info: 2429302;;1;3;;LCS;1;

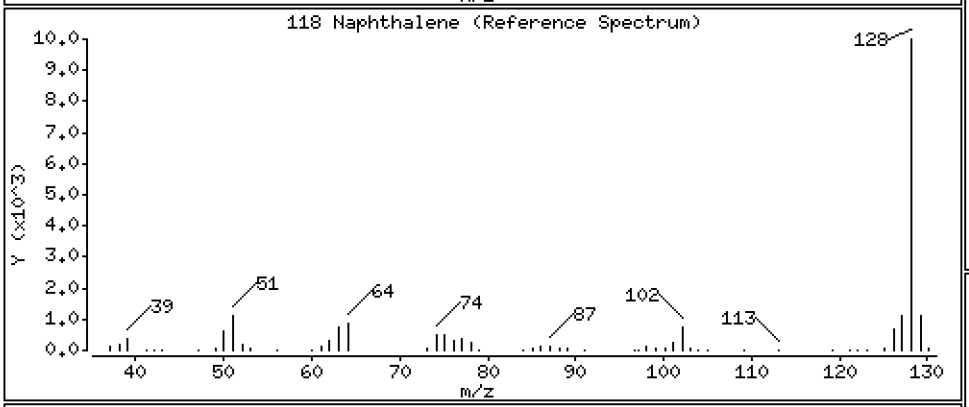
Purge Volume: 5.0 Operator: CJG

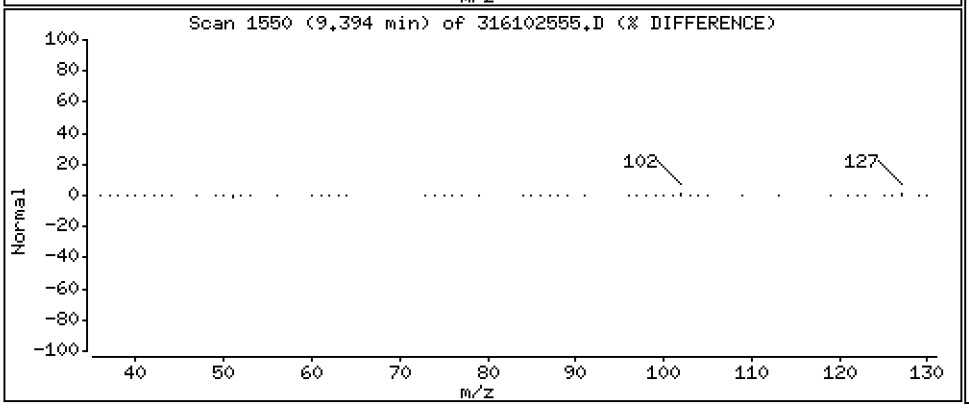
Column phase: DB-VRX Column diameter: 0.25

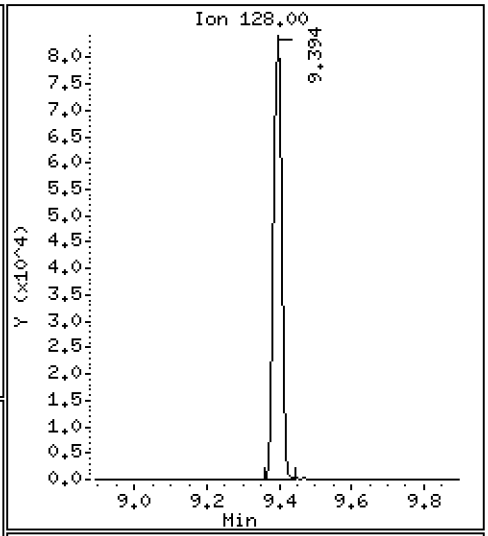
118 Naphthalene Concentration: 15.7803 ug/L

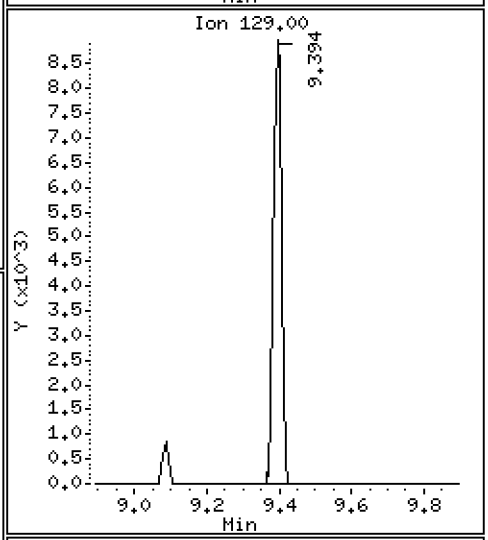


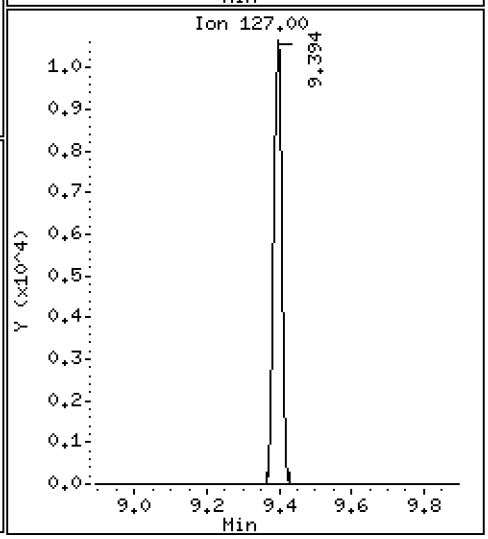












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 123

Date : 25-OCT-2016 23:28

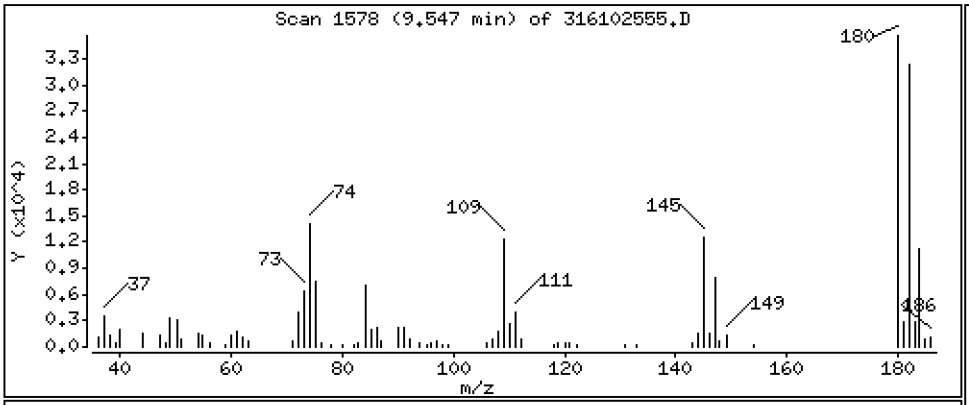
Client ID: LCS for HBN 174258 Instrument: ms03.i

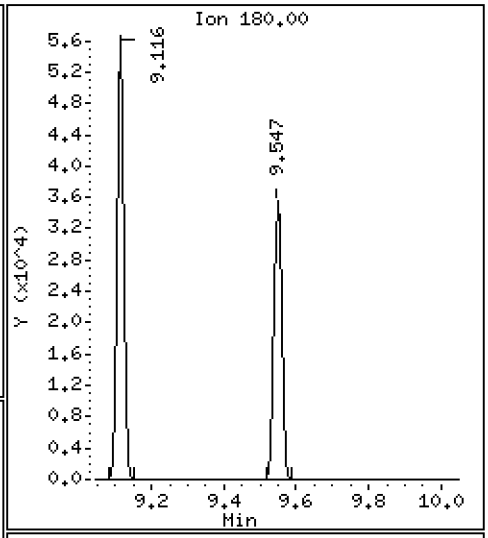
Sample Info: 2429302;;1;3;;LCS;1;

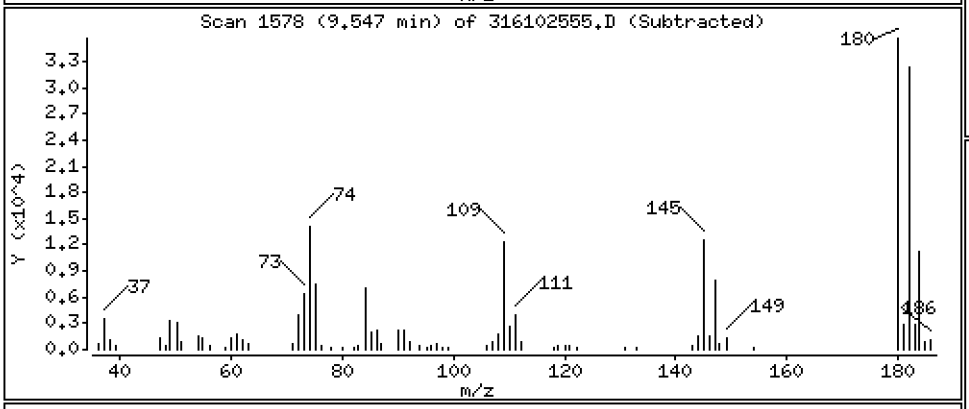
Purge Volume: 5.0 Operator: CJG

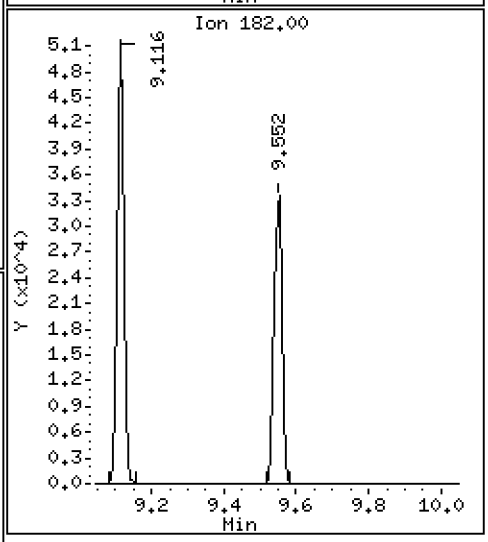
Column phase: DB-VRX Column diameter: 0.25

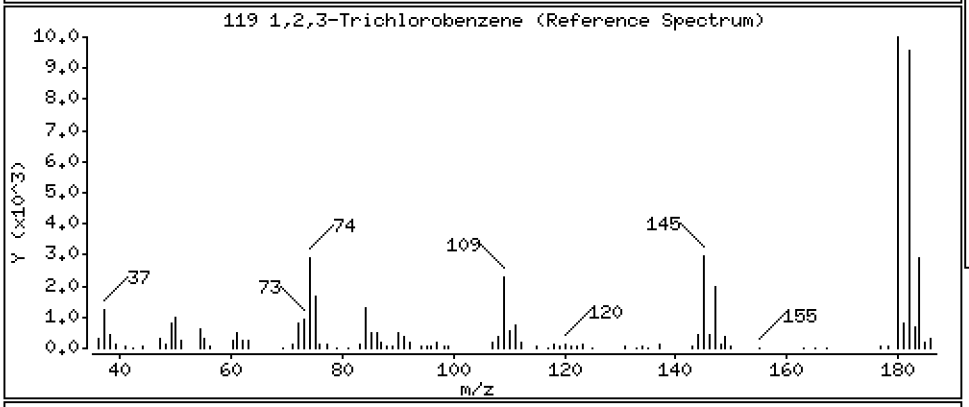
119 1,2,3-Trichlorobenzene Concentration: 17.7234 ug/L

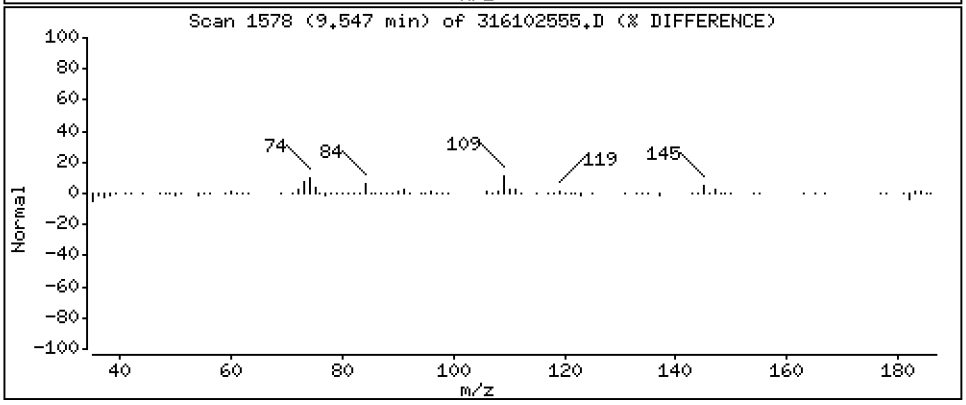












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 124

Date : 25-OCT-2016 23:28

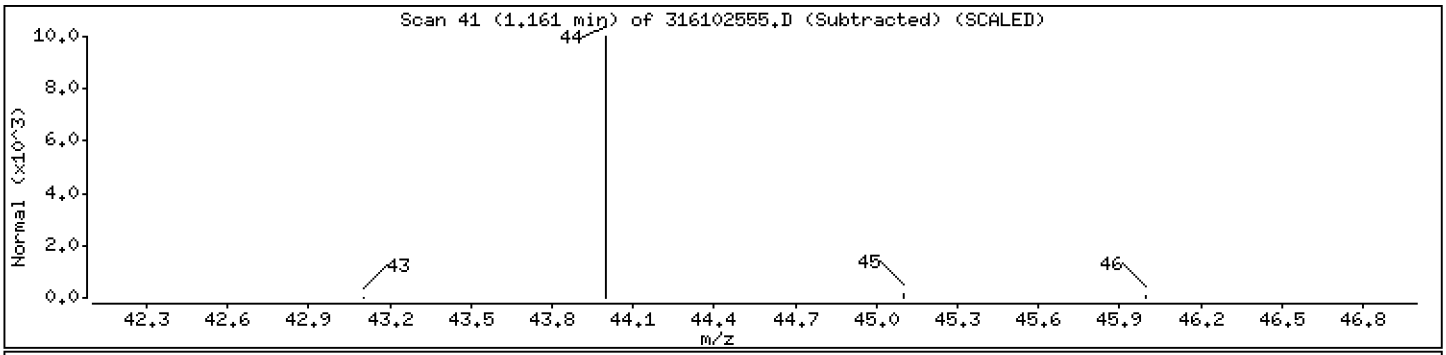
Client ID: LCS for HBN 174258 Instrument: ms03.i

Sample Info: 2429302;;1;3;;LCS;1;

Purge Volume: 5.0 Operator: CJG

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161025A.b\316102555.D Page 125

Date : 25-OCT-2016 23:28

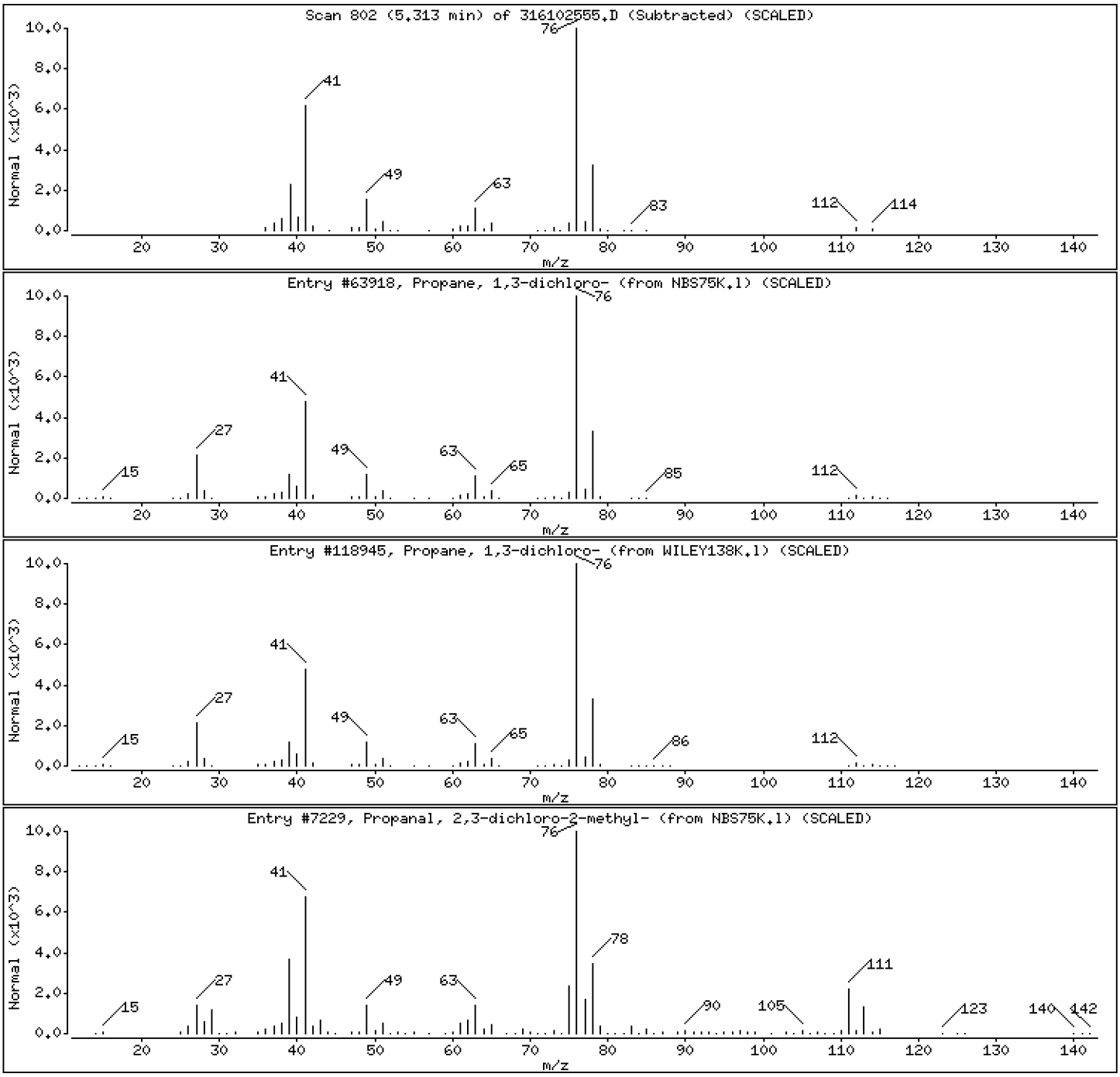
Client ID: LCS for HBN 174258 Instrument: ms03.i

Sample Info: 2429302;;1;3;;LCS;1;

Purge Volume: 5.0 Operator: CJG

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propane, 1,3-dichloro-	142-28-9	NBS75K.l	63918	83	C3H6Cl2	112
Propane, 1,3-dichloro-	142-28-9	WILEY138K.l	118945	83	C3H6Cl2	112
Propanal, 2,3-dichloro-2-methyl-	10141-22-7	NBS75K.l	7229	74	C4H6Cl2O	140

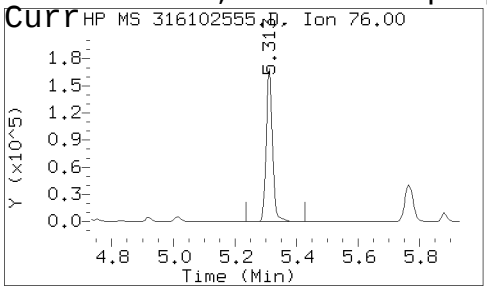


MANUAL INTEGRATION REPORT

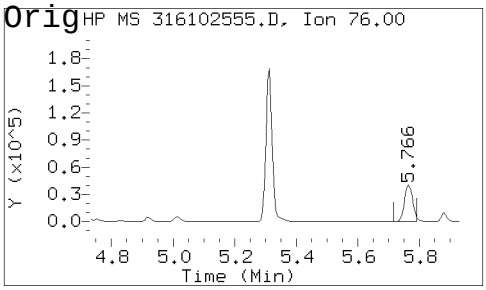
Report Date: 10/26/2016 10:32
Lab Sample ID: 2429302 Client ID: LCS for HBN 174258
DataFile:/Chem2/ms03.i/03_2016/3161025A.b/316102555.D
RawFile:/Chem2/ms03.i/03_2016/3161025A.b/RawData/316102555.D
Injection Date: 25-OCT-2016 23:28 Operator: CJG

1,3-Dichloropropane

Curr



Orig



Curr. Area: 241025
Orig. Area: 77028

Curr. ON-COL: 18.8305
Orig. ON-COL: 6.01795

UNASSIGNED PEAK REPORT

Report Date: 10/26/2016 10:32
Lab Sample ID: 2429302 Client ID: LCS for HBN 174258
DataFile:/Chem2/ms03.i/03_2016/3161025A.b/316102555.D
RawFile:/Chem2/ms03.i/03_2016/3161025A.b/RawData/316102555.D
Injection Date: 25-OCT-2016 23:28 Operator: CJG

Analytical Logbook

Data File: \\GC01\TargetDataChem2\ms03.m03_2016\3161024A.b

GCMS ANALYSIS - VOLATILE ORGANICS

DATE(S):	10/24/2016	Analyst:	CJG				
DATA FILE:	31024xx.d	BFB INJ :	10/24/16 22:18	INSTRUMENT: MS03	METHOD(S)	8260W	8260NJ D8260W 624
BATCH:	3161024A.b	12-HOUR ENDING:	10/25/16 10:18	ICAL DATE: 10/24/2016	LIMS BATCH:		41243

Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL-	Comment	Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL-	Comment
0	50	1000	1	BFB	-	-	-		34	84							
1	51	WP	1	8260	-	-	-		35	85							
2	52	WP	1	8260	-	-	-		36	86							
3	53	VSTD0.5	1	8260	-	-	-		37	87							
4	54	1234	1	8260	-	-	-		38	88							
5	55	1235	1	8260	-	-	-		39	89							
6	56	1236	1	8260	-	-	-		40	90							
7	57	1237	1	8260	-	-	-		41	91							
8	58	1238	1	8260	-	-	-		42	92							
9	59	1239	1	8260	-	-	-		43	93							
10	60	WP	1	8260	-	-	-		44	94							
11	61	WP	1	8260	-	-	-		45	95							
12	62	WP	1	8260	-	-	-		46	96							
13	63	2428715	1	8260	-	-	-		47	97							
14	64	2428716	1	8260	-	-	-		48	98							
15	65	WP	1	8260	-	-	-		49	99							
16	66	2181898026-A	1	D8260W V	<2	N	N	ICOC	50	100							
17	67	2181898027-A	1	D8260W V	<2	N	N	ICOC	51	101							
18	68	2181898028-A	1	D8260W V	<2	N	N	ICOC DL10	52	102							
19	69	2181898029-A	1	D8260W V	<2	N	N	ICOC	51	103							
20	70	2181898030-A	1	D8260W V	<2	N	N	ICOC	20	20							
21	71	2181898031-A	1	D8260W V	<2	N	N	ICOC	21	21							
22	72	2181898032-A	1	D8260W V	<2	N	N	ICOC	22	22							
23	73	2181898034-A	1	D8260W V	<2	N	N	ICOC	23	23							
24	74	2181898035-A	1	D8260W V	<2	N	N	ICOC	24	24							
25	75	2181898036-A	1	D8260W V	<2	N	N	ICOC	25	25							
26	76	2181898037-A	1	D8260W V	<2	N	N	ICOC	26	26							
27	77	2181898039-A	1	D8260W V	<2	N	N	ICOC CLIENT MS/D	27	27							
28	78	2428741	1	D8260W V	<2	N	N	ICOC "B"	28	28							
29	79	2428742	1	D8260W V	<2	N	N	ICOC "C"	29	29							
30	80	1801	1	D8260W V	-	-	-		30	30							
31	81								31	31							
32	82								32	32							
33	83								33	33							

IS: VOA13-35-28 Vnew: VOA13-033-12
SS: VOA13-11-18 Vgas: VOA13-036-16
BFB: VOA13-36-07 Qvoa: VOA13-034-01
Qgas: VOA13-036-13

ABBREVIATIONS

CO:	Suspect Carryover	SS:	Surrogate Failure
LS:	Library Search	IS:	ISTD Failure
RR:	Rerun same dilution	DNR:	Do not Report
DFx:	Rerun @ less diln x	NU:	Not Used
DLx:	Rerun @ diln x	AF:	Antifoam was used

10ul : HS801
25ul : HS770
100ul : HS797
1 mL : HS778
5 mL : HS779
10 mL : HS780

	8260	624
Prev		Prev
Current		Current
Total		Total
Needs QC?		Needs QC?
Page 1881 of 1882 Total		Pages

Data File: \\GC01\TargetDataChem2\ms03.m03_2016\3161025A.b

GCMS ANALYSIS - VOLATILE ORGANICS

DATE(S):	10/25/2016	Analyst:	CJG				
DATA FILE:	31025xx.d	BFB INJ :	10/25/16 20:46	INSTRUMENT: MS03	METHOD(S)	8260W	8260NJ	D8260W 624
BATCH:	3161025A.b	12-HOUR ENDING:	10/26/16 8:46	ICAL DATE: 10/24/2016	LIMS BATCH:			41258

Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL-	Comment
0	50	1000	1	BFB	-	-	-	
1	51	1800	1	8260	-	-	-	
2	52	WP	1	8260	-	-	-	
3	53	WP	1	8260	-	-	-	
4	54	2429301	1	8260	-	-	-	
5	55	2429302	1	8260	-	-	-	
6	56	WP	1	8260	-	-	-	
7	57	2182839005-A	1	D8260W V	<2	N	N	ICOC
8	58	2184162008-B	1	D8260W V	<2	N	N	ICOC LS 0034/NO HITS
9	59	2184162009-B	1	D8260W V	<2	N	N	ICOC LS 0056/NO HITS
10	60	2184162001-B	1	D8260W V	<2	N	N	ICOC LS 0118/NOHITS DL20
11	61	2184162002-B	1	D8260W V	<2	N	N	ICOC LS CORR1X
12	62	2184162003-B	1	D8260W V	<2	N	N	ICOC LS 0201/NO HITS
13	63	2184162004-B	1	D8260W V	<2	N	N	ICOC LS 0223/NO HITS
14	64	2184162005-B	1	D8260W V	<2	N	N	ICOC LS 0245/NO HITS
15	65	2184162006-B	1	D8260W V	<2	N	N	ICOC LS 0307/NO HITS
16	66	2184162007-B	1	D8260W V	<2	N	N	ICOC LS 0329/NO HITS
17	67	2184163001-B	1	D8260W V	<2	N	N	LS MS/D 0351/NO HITS
18	68	2184163002-B	1	D8260W V	<2	N	N	ICOC LS 0413/NO HITS
19	69	2183051001-B	1	D8260W V	<2	N	N	ICOC LS 0435/NO HITS
20	70	2183051002-B	1	D8260W V	<2	N	N	ICOC LS 0457/NO HITS
21	71	2182839001-A	1	D8260W V	<2	N	N	ICOC
22	72	2182839002-A	1	D8260W V	<2	N	N	ICOC
23	73	2182839003-A	1	D8260W V	<2	N	N	ICOC
24	74	2182839004-A	20	D8260TCLP	-	-	-	ICOC
25	75	2181898016-B	50	D8260W V	<2	N	N	ICOC DL
26	76	2181898028-B	10	D8260W V	<2	N	N	ICOC DL
27	77	2429373	1	D8260W V	<2	N	N	ICOC "C"
28	78	2429374	1	D8260W V	<2	N	N	ICOC "D"
29	79	1801	1	D8260W V	-	-	-	
30	80							
31	81							
32	82							
33	83							

Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL-	Comment
34	84							
35	85							
36	86							
37	87							
38	88							
39	89							
40	90							
41	91							
42	92							
43	93							
44	94							
45	95							
46	96							
47	97							
48	98							
49	99							
50	100							
51	101							
52	102							
51	103							
20	20							
21	21							
22	22							
23	23							
24	24							
25	25							
26	26							
27	27							
28	28							
29	29							
30	30							
31	31							
32	32							
33	33							

IS:	VOA13-35-28	Vnew:	VOA13-033-12
SS:	VOA13-11-18	Vgas:	VOA13-036-16
BFB:	VOA13-36-07	Qvoa:	VOA13-034-01
		Qgas:	VOA13-036-13

ABBREVIATIONS

CO:	Suspect Carryover	SS:	Surrogate Failure
LS:	Library Search	IS:	ISTD Failure
RR:	Rerun same dilution	DNR:	Do not Report
DFx:	Rerun @ less diln x	NU:	Not Used
DLx:	Rerun @ diln x	AF:	Antifoam was used

10ul :	HS801
25ul :	HS770
100ul :	HS797
1 mL :	HS778
5 mL :	HS779
10 mL :	HS780

	8260	624
Prev		Prev
Current		Current
Total		Total
Needs QC?		Needs QC?
Page 1882 of 1882 Total		Pages

ALS Environmental

34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com
NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 , DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

November 29, 2016

Work Order: 2184164
SDG: PQF049 Modified

Ms.Cris Grill
Parsons - Boston MA
100 High St.
4th Floor
Boston, MA 02110

Laboratory Results for: Ft. Monmouth GW Sampling

Dear Ms.Cris Grill:

Enclosed are the analytical results for samples received by the laboratory starting on October 21, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP. Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads. This laboratory report may not be reproduced, except infull, without the written approval of ALS Environmental. Any events, such as QC failures, are explained in the report narrative.

If you have any questions regarding this certificate of analysis, please contact Ms. Jennifer M Stanhope Lamoreux (Reporting Manager) at (717) 944-5541. You may also contact me via email at jennifer.lamoreux@ALSglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Jennifer M Stanhope Lamoreux
Reporting Manager

Table of Contents

Chain of Custody Records..... 3
Certificate of Analysis..... 7
Case Narrative..... 16
Volatile Organics by 8260 Summary Forms..... 19
Volatile Organics by 8260 Raw Data..... 39
Sample Raw Data..... 40
Standards Raw Data..... 95
Initial Calibrations..... 96
Initial Calibration Verifications..... 972
Continuing Calibrations..... 1101
QC Raw Data..... 1485
Instrument Tune Raw Data..... 1486
Blank Raw Data..... 1495
LCS Raw Data..... 1509
Analytical Logbook..... 1637

Chain of Custody Records

ALS Environmental
1565 Jefferson Road
Building 300, Suite 360
Rochester, NY 14623
(585)288-5380

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

18

1 of 1

2184164

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK.

Client Name: Parsons Federal
Address: 100 High St. 4th Floor
Boston, MA 02110
Contact: Cory Mahony
Phone#: 617-449-1440
Project Name/#: FTMM
Bill To: Parsons Federal

TAT [X] Normal-Standard TAT is 10-12 business days. [ ] Rush-Subject to ALS approval and surcharges.
Date Required: Approved?
Email? [X] -Y lorraine.weber@parsons.com
Fax? [ ] -Y No.:

Container Type	CG	CG
Container Size	40ml	40ml
Preservative	HCL	HCL

ANALYSES/METHOD REQUESTED

Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	*G or C	**Matrix	VOC (8260C)+15 TICs	TBA ONLY - VOC (8260C)	AUTHORIZED TO RUN	EXTRACT AND HOLD
1 FTMM-58-GW-2567MW03-8	10/21/16	1035	G	GW		X 3		
2 FTMM-58-GW-2567MW01-8.6	10/21/16	0950	G	GW		X		
3 FTMM-58-GW-2567MW05-11	10/21/16	1005	G	GW		X		
4 EB-20161021	10/21/16	1100	G	EB		X		
5								
6								
7								
8								
9								
10								

Enter Number of Containers Per Sample or Field Results Below.

Cooler Temp: 1 Therm ID: 352
No. of Coolers: ____

	Y	N	Initial
Custody Seals Present?			SEG
(if present) Seals Intact?			
Received on Ice?			
COC/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			
Correct Preservation?			
Headspace/Volatiles?			

Courier/Tracking #:

Sample/COC Comments

ALS Field Services: X Pickup __Labor __Composite Sampling __Rental Equipment __Other:

Project Comments: 748810
MDL Must Meet NJDEP Groundwater Quality Standards

LOGGED BY(signature): DATE TIME
REVIEWED BY(signature): DATE TIME

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1	10/21/16	14:57	2	10/21/16	1257
3	10/21	1800	4	10-21	1830
5	10-21	2040	6	10/21	2040
7			8		
9			10		

Data Deliverables: [ ] Standard [X] CLP-like [ ] USACE [ ]
Special Processing: USACE [ ] Navy [ ] [ ]
State Samples Collected In: [ ] NY [X] NJ [ ] PA [ ] NC [ ]
Reportable to PADEP? Yes [ ] PWSID #
Sample Disposal: Lab [ ] Special [ ]
EDDS: Format Type- ERPIMS

* G=Grab; C=Composite **Matrix - Al=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS ENVIRONMENTAL SHIPPING ADDRESS: 1565 Jefferson Road, Building 300, Suite 360 Rochester, NY 14623 USA

ALS Environmental
34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

Internal Chain of Custody

Work Order: 2184164

2184164001-A	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:30	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184164001-B	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:30	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184164001-C	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:30	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184164001-D	COC - Chain of Custody		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:30	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184164002-A	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:30	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184164002-B	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:30	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184164002-C	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:30	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184164002-D	COC - Chain of Custody		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:30	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184164003-A	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:30	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184164003-B	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:30	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

ALS Environmental
34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

Internal Chain of Custody

Work Order: 2184164

2184164003-C	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:30	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184164003-D	COC - Chain of Custody		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:30	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184164004-A	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:30	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184164004-B	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:30	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184164004-C	G - CLEAR GLASS		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:30	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

2184164004-D	COC - Chain of Custody		
Transfer Date	To Location	Transfer Reason	Transferred To
10-22-16 08:30	RECEIVING	LOGIN	Borden, Ms. Amy K
10-21-16 20:40	*Sample Received At Lab*		

Certificate of Analysis

ALS Environmental

34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

November 21, 2016

Ms.Cris Grill
Parsons - Boston MA
100 High St.
4th Floor
Boston, MA 02110

Certificate of Analysis

Revised Report - 11/21/2016 8:35:22 AM - See workorder comment section for explanation

Project Name:	**Ft. Monmouth GW Sampling**	Workorder:	**2184164**
Purchase Order:		Workorder ID:	**PQF049|FTMM PARCEL 58 GW TBA 1**

Dear Ms.Cris Grill:

Enclosed are the analytical results for samples received by the laboratory on Friday, October 21, 2016.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vanessa N Badman (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Vanessa N. Badman

Mrs. Vanessa N Badman
Project Coordinator

ALS Environmental
34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com
NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2184164 PQF049|FTMM PARCEL 58 GW TBA 1

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2184164001	FTMM-58-GW-2567MW03-8	Water	10/21/2016 10:35	10/21/2016 20:40	Collected by Client
2184164002	FTMM-58-GW-2567MW01-8.6	Water	10/21/2016 09:50	10/21/2016 20:40	Collected by Client
2184164003	FTMM-58-GW-2567MW05-11	Water	10/21/2016 10:05	10/21/2016 20:40	Collected by Client
2184164004	EB-20161021	Water	10/21/2016 11:00	10/21/2016 20:40	Collected by Client

ALS Environmental
34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

SAMPLE SUMMARY

Workorder: 2184164 PQF049|FTMM PARCEL 58 GW TBA 1

Notes

-- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
-- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
-- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
-- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
-- The Chain of Custody document is included as part of this report.
-- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
-- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
-- Method references listed on this report beginning with the prefix “S” followed by a method number (such as S2310B-97) refer to methods from “Standard Methods for the Examination of Water and Wastewater”.
-- For microbiological analyses, the "Prepared" value is the date/time into the incurbator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

ALS Environmental
34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

PROJECT SUMMARY

Workorder: 2184164 PQF049|FTMM PARCEL 58 GW TBA 1

Workorder Comments

This Certificate of Analysis has been modified in order to correct the sample ID for sample -003. VNB 11/21/16

ALS Environmental
34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com
NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2184164 PQF049|FTMM PARCEL 58 GW TBA 1

Lab ID: **2184164001** Date Collected: 10/21/2016 10:35 Matrix: Water
Sample ID: **FTMM-58-GW-2567MW03-8** Date Received: 10/21/2016 20:40

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS												
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C			10/26/16 16:47	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*			*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	113		%	81 - 118			SW846 8260C			10/26/16 16:47	DD	A
4-Bromofluorobenzene (S)	91.1		%	85 - 114			SW846 8260C			10/26/16 16:47	DD	A
Dibromofluoromethane (S)	83.6		%	80 - 119			SW846 8260C			10/26/16 16:47	DD	A
Toluene-d8 (S)	90.1		%	89 - 112			SW846 8260C			10/26/16 16:47	DD	A

Vanessa N. Badman
Mrs. Vanessa N Badman
Project Coordinator

ALS Environmental
34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com
NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2184164 PQF049|FTMM PARCEL 58 GW TBA 1

Lab ID: **2184164002** Date Collected: 10/21/2016 09:50 Matrix: Water
Sample ID: **FTMM-58-GW-2567MW01-8.6** Date Received: 10/21/2016 20:40

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS												
tert-Butyl Alcohol	344		ug/L	25.0	12.5	8.3	SW846 8260C			10/26/16 17:08	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*			*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	113		%	81 - 118			SW846 8260C			10/26/16 17:08	DD	A
4-Bromofluorobenzene (S)	94		%	85 - 114			SW846 8260C			10/26/16 17:08	DD	A
Dibromofluoromethane (S)	84.7		%	80 - 119			SW846 8260C			10/26/16 17:08	DD	A
Toluene-d8 (S)	89.5		%	89 - 112			SW846 8260C			10/26/16 17:08	DD	A

Vanessa N. Badman
Mrs. Vanessa N Badman
Project Coordinator

ALS Environmental
34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com
NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2184164 PQF049|FTMM PARCEL 58 GW TBA 1

Lab ID: **2184164003** Date Collected: 10/21/2016 10:05 Matrix: Water
Sample ID: **FTMM-58-GW-2567MW05-11** Date Received: 10/21/2016 20:40

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS												
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C			10/26/16 17:30	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*			*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	112		%	81 - 118			SW846 8260C			10/26/16 17:30	DD	A
4-Bromofluorobenzene (S)	93.9		%	85 - 114			SW846 8260C			10/26/16 17:30	DD	A
Dibromofluoromethane (S)	81.7		%	80 - 119			SW846 8260C			10/26/16 17:30	DD	A
Toluene-d8 (S)	90.6		%	89 - 112			SW846 8260C			10/26/16 17:30	DD	A

Vanessa N. Badman
Mrs. Vanessa N Badman
Project Coordinator

ALS Environmental
34 Dogwood Lane ▪ Middletown, PA 17057 ▪ Phone: 717-944-5541 ▪ Fax: 717-944-1430 ▪ www.alsglobal.com
NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

ANALYTICAL RESULTS

Workorder: 2184164 PQF049|FTMM PARCEL 58 GW TBA 1

Lab ID: **2184164004** Date Collected: 10/21/2016 11:00 Matrix: Water
Sample ID: **EB-20161021** Date Received: 10/21/2016 20:40

Parameters	Results	Flag	Units	LOQ	LOD	DL	Method	Prepared By	Analyzed	By	Cntr
VOLATILE ORGANICS											
tert-Butyl Alcohol	12.5U	U	ug/L	25.0	12.5	8.3	SW846 8260C		10/26/16 12:23	DD	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*			*Method*	*Prepared By*	*Analyzed*	*By*	*Cntr*
1,2-Dichloroethane-d4 (S)	111		%	81 - 118			SW846 8260C		10/26/16 12:23	DD	A
4-Bromofluorobenzene (S)	95		%	85 - 114			SW846 8260C		10/26/16 12:23	DD	A
Dibromofluoromethane (S)	83.8		%	80 - 119			SW846 8260C		10/26/16 12:23	DD	A
Toluene-d8 (S)	93.3		%	89 - 112			SW846 8260C		10/26/16 12:23	DD	A

Vanessa N. Badman
Mrs. Vanessa N Badman
Project Coordinator

Case Narrative

Parsons
ALS-Middletown
Case Narrative
PQF-049 Modified
2184164

Sample Management

This report contains the results of the analysis of four (4) water samples collected on October 21, 2016. Analytical results and quality control information are summarized in this data package.

Qualifier Symbol Definitions:

U = Qualifier indicates that the analyte was not detected above the LOD.
J = Qualifier indicates that the analyte value is between the DL and the LOQ.
B = Qualifier indicates that the analyte was detected in the blank.
E = Qualifier indicates that the analyte result exceeds the calibration range.
P = Qualifier indicates that the RPD between the two analytical columns is > 40%.
NSC = Qualifier indicates that spike recoveries were not calculated based on the spiking concentration.

Result Symbol Definitions:

DL = The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration at the 99% level of confidence.
LOD = The smallest analyte concentration that must be present in a sample in order to be detected at a high level of confidence.
LOQ = The lowest concentration that produces a quantitative result within specified limits of precision or bias.

Manual Integration Symbol Definitions

I = Peak was not integrated properly by chromatographic software. This may be due to baseline irregularities resulting from sample matrix, elevated baseline, or incorrect integration by software on a sample. Integration was adjusted by operator to ensure proper quantitation.
H = The incorrect peak was identified or the chromatographic software did not identify an analyte peak. Operator manually identified the correct peak as the appropriate target analyte. This flag is automatically assigned by the Target software.
SP = Peak was erroneously split. The operator manually integrated the peak to include all the area of the analyte peak to ensure proper quantitation.
MP = Two peaks were erroneously merged. This may include two discrete peaks separated by a distinguishable valley or a larger peak with a clearly identifiable shoulder. Operator manually split peaks.
AB = Integration of group of adjacent peaks did not follow baseline. Operator manually assigned integration to follow baseline.
NP = Negative spike in the baseline resulted in overstating area of analyte peaks. Analyte peaks were re-assigned.
AC = Integration of aggregate or multi-component analyte to include area off all components of the analyte (i.e., toxaphene).

Sample Receipt

The samples were received at ALS-Middletown via courier on October 21, 2016. The samples were received intact and properly preserved, unless noted on the enclosed Certificate of Analysis and/or Chain of Custody.

Manual Integrations

If manual integrations were performed they are indicated on the raw data quantification files for each method.

Modification

This data package was modified to correct the sample ID for 2184164003 per client request.

Volatile Organics by SW-846 Method 8260

Sample Handling. Four (4) water samples were analyzed by SW-846 Method 8260 for volatile organic compounds. All analyses were performed within holding time.

Initial Calibrations. Initial calibrations were properly analyzed and met method criteria for all target analytes. **Note:** The batch LCS also serves as a second source (ICV).

Continuing Calibration Verification. Continuing calibration standards were properly analyzed and met method criteria.

Blanks. Target analytes were not detected in the method blank.

Surrogates. Recoveries were within control limits.

Laboratory control samples. Target analytes were recovered within control limits.

Internal Standards. Internal standard results met method criteria.

Volatile Organics by 8260 Summary Forms

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ALS Global **Contract:**

Lab Code: VOA **CASE No.:** **SAS No.:** **SDG NO.:** PQF-049

	Sample NO.	SMC1 (BFB) #	SMC2 (DBFM)	SMC3 (DCE) #	SMC4 (TOL) #	TOT OUT
01	2428716(LCS)	93.7	83.9	95.6	90.5	0

	QC LIMITS
SMC1 (BFB) = 4-Bromofluorobenzene	(85-114)
SMC2 (DBFM) = Dibromofluoromethane	(80-119)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(81-118)
SMC4 (TOL) = Toluene-d8	(89-112)

 # Column to be used to flag recovery values
*** Values outside of contract required QC Limits**
D Surrogate Diluted Out

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ALS Global **Contract:**

Lab Code: VOA **CASE No.:** **SAS No.:** **SDG NO.:** PQF-049

	Sample NO.	SMC1 (BFB) #	SMC2 (DBFM)	SMC3 (DCE) #	SMC4 (TOL) #	TOT OUT
02	2429647(MB)	92.0	81.5	106	91.8	0
03	2429648(LCS)	92.1	83.9	104	89.4	0
04	EB-20161021	95.0	83.8	111	93.3	0
05	FTMM-58-GW-2567MW03-8	91.1	83.6	113	90.1	0
06	FTMM-58-GW-2567MW01-8.6	94.0	84.7	113	89.5	0
07	FTMM-58-GW-2567MW05-11	93.9	81.7	112	90.6	0

	QC LIMITS
SMC1 (BFB) = 4-Bromofluorobenzene	(85-114)
SMC2 (DBFM) = Dibromofluoromethane	(80-119)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(81-118)
SMC4 (TOL) = Toluene-d8	(89-112)

Column to be used to flag recovery values
* Values outside of contract required QC Limits
D Surrogate Diluted Out

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-049

Laboratory Control Spike - Sample No: 1801-1025160917

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
Acetone	250		247	98.8	(50-150)
Acrolein	500		467	93.4	(50-150)
Acrylonitrile	250		243	97.2	(50-150)
Acetonitrile	250		300	120	(50-150)
tert-Amyl Ethylether	50		50.0	100	(50-150)
tert-Amyl methyl ether	50		48.7	97.4	(50-150)
tert-Amyl Alcohol	250		269	108	(50-150)
Benzene	50		46.0	92.0	(50-150)
Benzyl Chloride	50		26.8	53.6	(50-150)
Bromobenzene	50		43.9	87.8	(50-150)
Bromochloromethane	50		46.1	92.2	(50-150)
Bromodichloromethane	50		47.9	95.8	(50-150)
Bromoform	50		39.7	79.4	(50-150)
Bromomethane	50		47.4	94.8	(50-150)
2-Butanone	250		255	102	(50-150)
tert.- Butyl Alcohol	250		293	117	(50-150)
tert-Butylbenzene	50		47.4	94.8	(50-150)
n-Butylbenzene	50		47.5	95.0	(50-150)
sec-Butylbenzene	50		48.5	97.0	(50-150)
Carbon Disulfide	50		41.2	82.4	(50-150)
Carbon Tetrachloride	50		46.6	93.2	(50-150)
Chloroacetonitrile	250		269	108	(50-150)
Chlorobenzene	50		43.3	86.6	(50-150)
1-Chlorobutane	50		51.4	103	(50-150)
Chlorodibromomethane	50		47.2	94.4	(50-150)
Chloroethane	50		53.8	108	(50-150)
2-Chloroethylvinyl ethe	50		43.4	86.8	(50-150)
Chloroform	50		49.2	98.4	(50-150)
1-Chlorohexane	50		47.0	94.0	(50-150)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 114 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-049

Laboratory Control Spike - Sample No: 1801-1025160917

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
Chloromethane	50		55.2	110	(50-150)
Chloroprene	50		47.8	95.6	(50-150)
3-Chloro-1-propene	50		38.9	77.8	(50-150)
o-Chlorotoluene	50		46.7	93.4	(50-150)
p-Chlorotoluene	50		46.6	93.2	(50-150)
Cyclohexane	50		45.6	91.2	(50-150)
1,2-Dibromo-3-Chloropro	50		47.7	95.4	(50-150)
1,2-Dibromoethane	50		46.9	93.8	(50-150)
Dibromomethane	50		46.6	93.2	(50-150)
trans-1,4-Dichloro-2-bu	50		36.2	72.4	(50-150)
1,2-Dichlorobenzene	50		47.8	95.6	(50-150)
1,3-Dichlorobenzene	50		48.1	96.2	(50-150)
1,4-Dichlorobenzene	50		48.1	96.2	(50-150)
Dichlorodifluoromethane	50		54.2	108	(50-150)
1,1-Dichloroethane	50		46.0	92.0	(50-150)
1,2-Dichloroethene, Tot	100		91.1	91.1	(50-150)
1,2-Dichloroethane	50		45.9	91.8	(50-150)
1,1-Dichloroethene	50		43.5	87.0	(50-150)
cis-1,2-Dichloroethene	50		45.8	91.6	(50-150)
trans-1,2-Dichloroethen	50		45.3	90.6	(50-150)
Dichlorofluoromethane	50		44.2	88.4	(50-150)
1,1-Dichloro-2-Propanon	250		249	99.6	(50-150)
2,2-Dichloropropane	50		35.2	70.4	(50-150)
1,3-Dichloropropane	50		45.5	91.0	(50-150)
1,2-Dichloropropane	50		47.5	95.0	(50-150)
1,1-Dichloropropene	50		46.0	92.0	(50-150)
cis-1,3-Dichloropropene	50		47.4	94.8	(50-150)
trans-1,3-Dichloroprope	50		48.2	96.4	(50-150)
1,3-Dichloropropene, To	100		95.6	95.6	(50-150)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 114 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-049

Laboratory Control Spike - Sample No: 1801-1025160917

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC	
Diisobutylene	50		52.5	105	(50-150)	
Diisopropyl ether	50		49.4	98.8	(50-150)	
1,4-Dioxane	1250		2520	202*	(50-150)	NT
Ethyl Acetate	50		51.6	103	(50-150)	
Ethyl ether	50		45.0	90.0	(50-150)	
Ethyl Methacrylate	50		52.7	105	(50-150)	
Ethyl tert-butyl ether	50		49.4	98.8	(50-150)	
Ethylbenzene	50		45.0	90.0	(50-150)	
Freon 113	50		42.1	84.2	(50-150)	
Heptane	50		43.8	87.6	(50-150)	
Hexachlorobutadiene	50		47.1	94.2	(50-150)	
Hexachloroethane	50		44.1	88.2	(50-150)	
Hexane	50		44.3	88.6	(50-150)	
2-Hexanone	250		277	111	(50-150)	
Iodomethane	50		47.5	95.0	(50-150)	
Isobutyl alcohol	500		726	145	(50-150)	
Isopropyl Alcohol	250		332	133	(50-150)	
Isopropylbenzene	50		47.2	94.4	(50-150)	
p-Isopropyltoluene	50		49.4	98.8	(50-150)	
Methyl acetate	50		47.8	95.6	(50-150)	
Methyl acrylate	50		50.8	102	(50-150)	
Methacrylonitrile	50		48.0	96.0	(50-150)	
Methyl cyclohexane	50		44.8	89.6	(50-150)	
Methyl methacrylate	50		52.7	105	(50-150)	
Methyl t-Butyl Ether	50		47.0	94.0	(50-150)	
4-Methyl-2-Pentanone(MI	250		268	107	(50-150)	
Methylene Chloride	50		47.5	95.0	(50-150)	
Naphthalene	50		45.2	90.4	(50-150)	
Nitrobenzene	500		305	61.0	(50-150)	

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 114 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-049

Laboratory Control Spike - Sample No: 1801-1025160917

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
2-Nitropropane	250		247	98.8	(50-150)
Octane	50		42.6	85.2	(50-150)
Pentachloroethane	50		43.9	87.8	(50-150)
Pentane	50		46.2	92.4	(50-150)
n-Propanol	500		542	108	(50-150)
Propionitrile	250		251	100	(50-150)
n-Propylbenzene	50		48.0	96.0	(50-150)
Styrene	50		48.8	97.6	(50-150)
1,1,1,2-Tetrachloroetha	50		47.8	95.6	(50-150)
1,1,2,2-Tetrachloroetha	50		46.4	92.8	(50-150)
Tetrachloroethene	50		52.2	104	(50-150)
Tetrahydrofuran	250		258	103	(50-150)
Toluene	50		46.3	92.6	(50-150)
Total Xylenes	150		139	92.7	(50-150)
1,2,3-Trichlorobenzene	50		45.9	91.8	(50-150)
1,2,4-Trichlorobenzene	50		45.8	91.6	(50-150)
1,1,1-Trichloroethane	50		47.3	94.6	(50-150)
1,1,2-Trichloroethane	50		45.7	91.4	(50-150)
Trichloroethene	50		43.8	87.6	(50-150)
Trichlorofluoromethane	50		52.0	104	(50-150)
1,2,3-Trichloropropane	50		44.8	89.6	(50-150)
1,2,4-Trimethylbenzene	50		49.5	99.0	(50-150)
1,3,5-Trimethylbenzene	50		48.9	97.8	(50-150)
Vinyl Acetate	50		44.9	89.8	(50-150)
Vinyl Chloride	50		54.1	108	(50-150)
o-Xylene	50		47.8	95.6	(50-150)
mp-Xylene	100		91.7	91.7	(50-150)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 1 out of 114 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-049

Laboratory Control Spike - Sample No: 1801-1026161941

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
Acetone	250		246	98.4	(50-150)
Acrolein	500		523	105	(50-150)
Acrylonitrile	250		260	104	(50-150)
Acetonitrile	250		292	117	(50-150)
tert-Amyl Ethylether	50		51.8	104	(50-150)
tert-Amyl methyl ether	50		50.4	101	(50-150)
tert-Amyl Alcohol	250		222	88.8	(50-150)
Benzene	50		49.0	98.0	(50-150)
Benzyl Chloride	50		31.6	63.2	(50-150)
Bromobenzene	50		44.9	89.8	(50-150)
Bromochloromethane	50		47.1	94.2	(50-150)
Bromodichloromethane	50		50.6	101	(50-150)
Bromoform	50		37.1	74.2	(50-150)
Bromomethane	50		52.6	105	(50-150)
2-Butanone	250		251	100	(50-150)
tert.- Butyl Alcohol	250		236	94.4	(50-150)
tert-Butylbenzene	50		46.4	92.8	(50-150)
n-Butylbenzene	50		46.4	92.8	(50-150)
sec-Butylbenzene	50		48.6	97.2	(50-150)
Carbon Disulfide	50		47.5	95.0	(50-150)
Carbon Tetrachloride	50		50.8	102	(50-150)
Chloroacetonitrile	250		223	89.2	(50-150)
Chlorobenzene	50		43.9	87.8	(50-150)
1-Chlorobutane	50		57.8	116	(50-150)
Chlorodibromomethane	50		46.0	92.0	(50-150)
Chloroethane	50		51.0	102	(50-150)
2-Chloroethylvinyl ethe	50		41.7	83.4	(50-150)
Chloroform	50		52.4	105	(50-150)
1-Chlorohexane	50		47.6	95.2	(50-150)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 114 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-049

Laboratory Control Spike - Sample No: 1801-1026161941

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
Chloromethane	50		55.8	112	(50-150)
Chloroprene	50		53.1	106	(50-150)
3-Chloro-1-propene	50		50.0	100	(50-150)
o-Chlorotoluene	50		48.9	97.8	(50-150)
p-Chlorotoluene	50		49.1	98.2	(50-150)
Cyclohexane	50		49.2	98.4	(50-150)
1,2-Dibromo-3-Chloropro	50		47.1	94.2	(50-150)
1,2-Dibromoethane	50		46.8	93.6	(50-150)
Dibromomethane	50		48.6	97.2	(50-150)
trans-1,4-Dichloro-2-bu	50		42.1	84.2	(50-150)
1,2-Dichlorobenzene	50		48.3	96.6	(50-150)
1,3-Dichlorobenzene	50		48.4	96.8	(50-150)
1,4-Dichlorobenzene	50		48.3	96.6	(50-150)
Dichlorodifluoromethane	50		50.4	101	(50-150)
1,1-Dichloroethane	50		48.9	97.8	(50-150)
1,2-Dichloroethene, Tot	100		98.6	98.6	(50-150)
1,2-Dichloroethane	50		49.3	98.6	(50-150)
1,1-Dichloroethene	50		49.6	99.2	(50-150)
cis-1,2-Dichloroethene	50		49.4	98.8	(50-150)
trans-1,2-Dichloroethen	50		49.2	98.4	(50-150)
Dichlorofluoromethane	50		47.9	95.8	(50-150)
1,1-Dichloro-2-Propanon	250		248	99.2	(50-150)
2,2-Dichloropropane	50		42.8	85.6	(50-150)
1,3-Dichloropropane	50		46.5	93.0	(50-150)
1,2-Dichloropropane	50		50.8	102	(50-150)
1,1-Dichloropropene	50		49.9	99.8	(50-150)
cis-1,3-Dichloropropene	50		49.5	99.0	(50-150)
trans-1,3-Dichloroprope	50		50.3	101	(50-150)
1,3-Dichloropropene, To	100		99.8	99.8	(50-150)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 114 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-049

Laboratory Control Spike - Sample No: 1801-1026161941

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
Diisobutylene	50		54.9	110	(50-150)
Diisopropyl ether	50		54.0	108	(50-150)
1,4-Dioxane	1250		1170	93.6	(50-150)
Ethyl Acetate	50		55.7	111	(50-150)
Ethyl ether	50		45.8	91.6	(50-150)
Ethyl Methacrylate	50		53.9	108	(50-150)
Ethyl tert-butyl ether	50		52.4	105	(50-150)
Ethylbenzene	50		45.3	90.6	(50-150)
Freon 113	50		47.3	94.6	(50-150)
Heptane	50		46.3	92.6	(50-150)
Hexachlorobutadiene	50		44.9	89.8	(50-150)
Hexachloroethane	50		43.5	87.0	(50-150)
Hexane	50		48.2	96.4	(50-150)
2-Hexanone	250		289	116	(50-150)
Iodomethane	50		59.7	119	(50-150)
Isobutyl alcohol	500		501	100	(50-150)
Isopropyl Alcohol	250		216	86.4	(50-150)
Isopropylbenzene	50		48.7	97.4	(50-150)
p-Isopropyltoluene	50		48.4	96.8	(50-150)
Methyl acetate	50		49.7	99.4	(50-150)
Methyl acrylate	50		53.9	108	(50-150)
Methacrylonitrile	50		50.9	102	(50-150)
Methyl cyclohexane	50		45.2	90.4	(50-150)
Methyl methacrylate	50		57.1	114	(50-150)
Methyl t-Butyl Ether	50		49.7	99.4	(50-150)
4-Methyl-2-Pentanone(MI	250		283	113	(50-150)
Methylene Chloride	50		50.6	101	(50-150)
Naphthalene	50		42.9	85.8	(50-150)
Nitrobenzene	500		259	51.8	(50-150)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 114 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-049

Laboratory Control Spike - Sample No: 1801-1026161941

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
2-Nitropropane	250		250	100	(50-150)
Octane	50		43.9	87.8	(50-150)
Pentachloroethane	50		46.0	92.0	(50-150)
Pentane	50		55.8	112	(50-150)
n-Propanol	500		585	117	(50-150)
Propionitrile	250		253	101	(50-150)
n-Propylbenzene	50		48.1	96.2	(50-150)
Styrene	50		50.9	102	(50-150)
1,1,1,2-Tetrachloroetha	50		48.5	97.0	(50-150)
1,1,2,2-Tetrachloroetha	50		48.6	97.2	(50-150)
Tetrachloroethene	50		52.4	105	(50-150)
Tetrahydrofuran	250		271	108	(50-150)
Toluene	50		47.4	94.8	(50-150)
Total Xylenes	150		141	94.0	(50-150)
1,2,3-Trichlorobenzene	50		44.0	88.0	(50-150)
1,2,4-Trichlorobenzene	50		42.4	84.8	(50-150)
1,1,1-Trichloroethane	50		50.7	101	(50-150)
1,1,2-Trichloroethane	50		46.8	93.6	(50-150)
Trichloroethene	50		46.6	93.2	(50-150)
Trichlorofluoromethane	50		50.6	101	(50-150)
1,2,3-Trichloropropane	50		46.2	92.4	(50-150)
1,2,4-Trimethylbenzene	50		50.9	102	(50-150)
1,3,5-Trimethylbenzene	50		50.1	100	(50-150)
Vinyl Acetate	50		46.8	93.6	(50-150)
Vinyl Chloride	50		52.6	105	(50-150)
o-Xylene	50		48.7	97.4	(50-150)
mp-Xylene	100		92.7	92.7	(50-150)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 114 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-049

Laboratory Control Spike - Sample No: 2428716

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
tert.- Butyl Alcohol	100		106	106	(68-129)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 1 outside limits

Comments:

Form III VOA-1 8260B

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-049

Laboratory Control Spike - Sample No: 2429648

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
tert.- Butyl Alcohol	100		129	129	(68-129)

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 1 outside limits

Comments:

Form III VOA-1 8260B

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.
2429647

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG NO.: PQF-049

Lab File ID: 316102604dod.D Lab Sample ID: 2429647

Date Analyzed: 10/26/2016 Time Analyzed: 10:33

GC Column: RTXVRX ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: ms03.i

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
2429648(LCS)	2429648	316102605dod.D	10:55
EB-20161021	2184164004	316102609.D	12:23
FTMM-58-GW-2567MW03-8	2184164001	316102621.D	16:47
FTMM-58-GW-2567MW01-8	2184164002	316102622.D	17:08
FTMM-58-GW-2567MW05-1	2184164003	316102623.D	17:30
1801-1026161941	1801-1026161941	316102629.D	19:41

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG NO.: PQF-049

Lab File ID: 316102450.D BFB Injection Date: 10/24/2016

Instrument ID: ms03.i BFB Injection Time: 22:18

GC Column: RTXVRX ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.5
75	30.0 - 60.0% of mass 95	52.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.3(0.4) 1
174	50.0 - 100.0% of mass 95	64.2
175	5.0 - 9.0% of mass 174	4.5 (7.0) 1
176	95.0 - 101.0% of mass 174	61.9 (96.5) 1
177	5.0 - 9.0% of mass 176	3.7 (6.0) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD00.5	VSTD00.5	316102453.D	10/24/2016	23:25
1234	1234	316102454.D	10/24/2016	23:46
1235	1235	316102455.D	10/25/2016	00:08
1236	1236	316102456.D	10/25/2016	00:30
1237	1237	316102457.D	10/25/2016	00:52
1238	1238	316102458.D	10/25/2016	01:14
1239	1239	316102459.D	10/25/2016	01:36
2428716(LCS)	2428716	316102464.D	10/25/2016	03:26
1801-1025160917	1801-1025160917	316102480.D	10/25/2016	09:17

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG NO.: PQF-049

Lab File ID: 316102600.D BFB Injection Date: 10/26/2016

Instrument ID: ms03.i BFB Injection Time: 08:34

GC Column: RTXVRX ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.9
75	30.0 - 60.0% of mass 95	54.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.4(0.6) 1
174	50.0 - 100.0% of mass 95	63.9
175	5.0 - 9.0% of mass 174	4.6 (7.2) 1
176	95.0 - 101.0% of mass 174	62.7 (98.0) 1
177	5.0 - 9.0% of mass 176	4.1 (6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1800	1800	316102601Adod.	10/26/2016	09:18
2429647(MB)	2429647	316102604dod.D	10/26/2016	10:33
2429648(LCS)	2429648	316102605dod.D	10/26/2016	10:55
EB-20161021	2184164004	316102609.D	10/26/2016	12:23
FTMM-58-GW-2567MW03-8	2184164001	316102621.D	10/26/2016	16:47
FTMM-58-GW-2567MW01-8.6	2184164002	316102622.D	10/26/2016	17:08
FTMM-58-GW-2567MW05-11	2184164003	316102623.D	10/26/2016	17:30
1801-1026161941	1801-1026161941	316102629.D	10/26/2016	19:41

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS Global **Contract:**

Lab Code: VOA **Case No.:** **SAS No.:** **SDG No.:** PQF-049

Lab File ID: 316102457.D **Date Analyzed:** 10/25/2016

Instrument ID: ms03.i **Time Analyzed:** 00:52

GC Column: RTXVRX **ID:** 0.2 (mm) **Heated Purge: (Y/N)** N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	432864	5.760	273837	7.522	1013164	3.790
UPPER LIMIT	865728	6.260	547674	8.022	2026328	4.290
LOWER LIMIT	216432	5.260	136919	7.022	506582	3.290
SAMPLE NO.						
2428716(LCS)	459017	5.760	280924	7.517	1066160	3.790

IS1 = Chlorobenzene-d5
IS2 = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form VIII VOA-1 8260B

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS Global **Contract:**

Lab Code: VOA **Case No.:** **SAS No.:** **SDG No.:** PQF-049

Lab File ID: 316102480.D **Date Analyzed:** 10/25/2016

Instrument ID: ms03.i **Time Analyzed:** 09:17

GC Column: RTXVRX **ID:** 0.2 (mm) **Heated Purge: (Y/N)** N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	432864	5.760	273837	7.522	1013164	3.790
UPPER LIMIT	865728	5.930	547674	7.692	2026328	3.960
LOWER LIMIT	216432	5.590	136919	7.352	506582	3.620
SAMPLE NO.						
1801-1025160917	428774	5.760	268130	7.522	995338	3.790

IS1 = Chlorobenzene-d5
IS2 = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form VIII VOA-1 8260B

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS Global Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: PQF-049

Lab File ID: 316102601Adod.D Date Analyzed: 10/26/2016

Instrument ID: ms03.i Time Analyzed: 09:18

GC Column: RTXVRX ID: 0.2 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	432864	5.760	273837	7.522	1013164	3.790
UPPER LIMIT	865728	5.930	547674	7.692	2026328	3.960
LOWER LIMIT	216432	5.590	136919	7.352	506582	3.620
SAMPLE NO.						
1800	425693	5.760	260113	7.522	975538	3.790
2429647(MB)	395017	5.760	220712	7.517	947614	3.790
2429648(LCS)	421433	5.760	249374	7.517	955102	3.790
EB-20161021	366324	5.760	200480	7.522	876149	3.790
FTMM-58-GW-2567MW	354479	5.760	191200	7.522	834996	3.790
FTMM-58-GW-2567MW	356814	5.760	187558	7.517	833746	3.790
FTMM-58-GW-2567MW	351906	5.760	187978	7.517	836999	3.790

IS1 = Chlorobenzene-d5
IS2 = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form VIII VOA-1 8260B

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ALS Global **Contract:**

Lab Code: VOA **Case No.:** **SAS No.:** **SDG No.:** PQF-049

Lab File ID: 316102629.D **Date Analyzed:** 10/26/2016

Instrument ID: ms03.i **Time Analyzed:** 19:41

GC Column: RTXVRX **ID:** 0.2 (mm) **Heated Purge: (Y/N)** N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	432864	5.760	273837	7.517	1013164	3.790
UPPER LIMIT	865728	5.930	547674	7.687	2026328	3.960
LOWER LIMIT	216432	5.590	136919	7.347	506582	3.620
SAMPLE NO.						
1801-1026161941	397503	5.760	241732	7.517	900006	3.790

IS1 = Chlorobenzene-d5
IS2 = 1,4-Dichlorobenzene-d4
IS3 = Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.17 minutes of internal standard RT
RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form VIII VOA-1 8260B

Volatile Organics by 8260 Raw Data

Sample Raw Data

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FTMM-58-GW-2567MW03-8

Lab Name: ALS Global **Contract:**

Lab Code: VOA **Case No.:** **SAS No.:** **SDG No.:** PQF-049

Matrix (soil/water): WATER **Lab Sample ID:** 2184164001

Sample wt/vol: 5.00 (g/mL) ML **Lab File ID:** 316102621.D

Level (low/med): **Date Received:** 10/21/16

% Moisture: not dec. 100.0 **Date Analyzed:** 10/26/16

GC Column: RTXVRX **ID:** 0.25 (mm) **Dilution Factor:** 1.0

Soil Extract Volume: (uL) **Soil Aliquot Volume:** (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-65-0	tert.- Butyl Alcohol	12.5	U

Data File: 316102621.D Page 1
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102621
Lab Smp Id: 2184164001 Client Smp ID: FTMM-58-GW-2567MW03
Inj Date : 26-OCT-2016 16:47
Operator : DD Inst ID: ms03.i
Smp Info : 2184164001;;1;;;;;
Misc Info : ZZ VOMS 41264 D8260W
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b09
Meth Date : 27-Oct-2016 10:55 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	2.333	2.333	(0.616)	2921	12.9513	12.9513(a)	
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 316102621.D Page 2
Report Date: 27-Oct-2016 11:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
22 Methyl t-Butyl Ether	73	2.535	2.530	(0.669)	7919	0.44773	0.447728(aQ)	
23 tert.- Butyl Alcohol	59	Compound Not Detected.						
24 Acetonitrile	41	Compound Not Detected.						
25 Diisopropyl ether	45	Compound Not Detected.						
26 Chloroprene	53	Compound Not Detected.						
27 1,1-Dichloroethane	63	Compound Not Detected.						
28 Acrylonitrile	53	Compound Not Detected.						
30 n-Propanol	41	Compound Not Detected.						
29 Ethyl tert-butyl ether	59	Compound Not Detected.						
31 Vinyl acetate	86	Compound Not Detected.						
32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
33 2,2-Dichloropropane	77	Compound Not Detected.						
M 100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
34 Bromochloromethane	128	Compound Not Detected.						
35 Cyclohexane	84	Compound Not Detected.						
36 Chloroform	83	Compound Not Detected.						
37 Ethyl acetate	43	Compound Not Detected.						
38 Methyl acrylate	55	Compound Not Detected.						
39 Carbon Tetrachloride	117	Compound Not Detected.						
40 Tetrahydrofuran	42	Compound Not Detected.						
$ 41 Dibromofluoromethane	113	3.337	3.337	(0.881)	138094	25.0820	25.0820	
42 1,1,1-Trichloroethane	97	Compound Not Detected.						
43 2-Butanone	72	Compound Not Detected.						
44 1,1-Dichloropropene	75	Compound Not Detected.						
45 1-Chlorobutane	41	Compound Not Detected.						
46 Heptane	71	Compound Not Detected.						
48 Propionitrile	54	Compound Not Detected.						
47 Benzene	78	Compound Not Detected.						
49 Methacrylonitrile	67	Compound Not Detected.						
50 tert-amyl methyl Ether	73	Compound Not Detected.						
$ 51 1,2-Dichloroethane-d4	65	3.637	3.637	(0.960)	221817	33.8695	33.8695	
54 Isobutyl alcohol	43	Compound Not Detected.						
52 1,2-Dichloroethane	62	Compound Not Detected.						
53 tert-Amyl Alcohol	59	Compound Not Detected.						
* 55 Fluorobenzene	96	3.790	3.790	(1.000)	834996	30.0000		
56 Diisobutylene	57	Compound Not Detected.						
57 Trichloroethene	95	Compound Not Detected.						
58 Methyl cyclohexane	83	Compound Not Detected.						
59 tert-Amyl Ethylether	59	Compound Not Detected.						
60 Dibromomethane	93	Compound Not Detected.						
61 1,2-Dichloropropane	63	Compound Not Detected.						
62 Bromodichloromethane	83	Compound Not Detected.						
63 Methyl methacrylate	41	Compound Not Detected.						
64 1,4-Dioxane	88	Compound Not Detected.						
65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
67 Octane	85	Compound Not Detected.						
$ 68 Toluene-d8	98	4.723	4.723	(0.820)	591627	27.0164	27.0164	
69 Toluene	92	Compound Not Detected.						
70 Chloroacetonitrile	48	Compound Not Detected.						
71 2-Nitropropane	41	Compound Not Detected.						
72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
75 trans-1,3-Dichloropropene	75	Compound Not Detected.						

Data File: 316102621.D Page 3
Report Date: 27-Oct-2016 11:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	354479	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	6.649	6.649	(0.884)	108157	27.3310	27.3310	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.522	7.522	(1.000)	191200	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: 316102621.D Page 4
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i
Lab File ID: 316102621.D
Lab Smp Id: 2184164001
Analysis Type: VOA
Quant Type: ISTD
Operator: DD
Calibration Date: 26-OCT-2016
Calibration Time: 09:18
Client Smp ID: FTMM-58-GW-2567
Level: LOW
Sample Type: WATER
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b0
Misc Info: ZZ VOMS 41264 D8260W

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	834996	-17.59
83 Chlorobenzene-d5	432864	216432	865728	354479	-18.11
108 1,4-Dichlorobenze	273837	136919	547674	191200	-30.18

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	-0.01
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	-0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102621.D Page 5
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

RECOVERY REPORT

Client Name: Parsons - Boston MA Client SDG: PQF049|FTMM PARCEL
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 2184164001 Client Smp ID: FTMM-58-GW-2567MW03
Level: LOW Operator: DD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: WATERQC2006.spk Quant Type: ISTD
Sublist File: DODall.sub
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b0
Misc Info: ZZ VOMS 41264 D8260W

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 41 Dibromofluorometha	30.0000	25.0820	83.61	80-119
$ 51 1,2-Dichloroethane	30.0000	33.8695	112.90	81-118
$ 68 Toluene-d8	30.0000	27.0164	90.05	89-112
$ 92 4-Bromofluorobenze	30.0000	27.3310	91.10	85-114

Data File: 316102621.D Page 6
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Parsons - Boston MA
Lab Smp Id: 2184164001
Sample Location:
Sample Date: 21-OCT-2016
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41264 D8260W

Client SDG: PQF049|FTMM PARCEL
Client Smp ID: FTMM-58-GW-2567MW03
Sample Point:
Date Received: 21-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: DD

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
67-63-0	Isopropyl Alcohol	12.9513	J
1634-04-4	Methyl t-Butyl Ether	0.447728	J
1868-53-7	Dibromofluoromethane	25.0820	
17060-07-0	1,2-Dichloroethane-d4	33.8695	
2037-26-5	Toluene-d8	27.0164	
460-00-4	4-Bromofluorobenzene	27.3310	

Data File: 316102621.D Page 7
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

TENTATIVELY IDENTIFIED COMPOUNDS

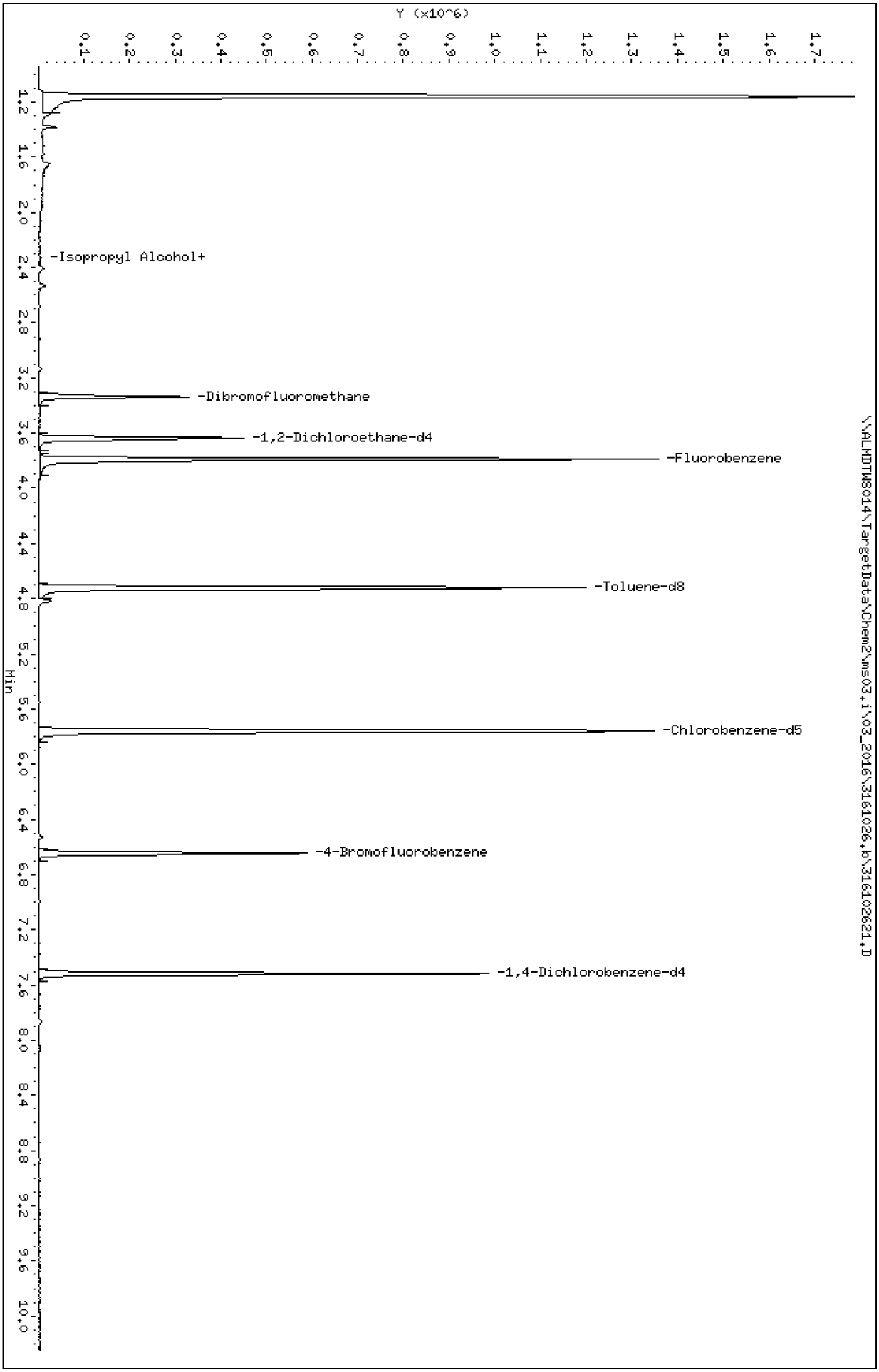
Client Name: Parsons - Boston MA
Lab Smp Id: 2184164001
Operator : DD
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 26-OCT-2016 16:47

Client SDG: PQF049|FTMM PARCEL
Client Smp ID: FTMM-58-GW-2567MW03
Sample Date: 21-OCT-2016
Sample Point:
Date Received:21-OCT-2016 00:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.2
1.6
2.0
2.4
2.8
3.2
3.6
4.0
4.4
4.8
5.2
5.6
6.0
6.4
6.8
7.2
7.6
8.0
8.4
8.8
9.2
9.6
10.0
Min
-Isopropyl Alcohol+
-Dibromofluoromethane
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4-Dichlorobenzene-d4
Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3161026z1.D
Date : 26-OCT-2016 16:47
Client ID: FTMM-58-GW-2567MW03
Sample Info: 2184164001;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: DD
Column diameter: 0.25
\\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3161026z1.D
Page 8

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102621.D Page 9

Date : 26-OCT-2016 16:47

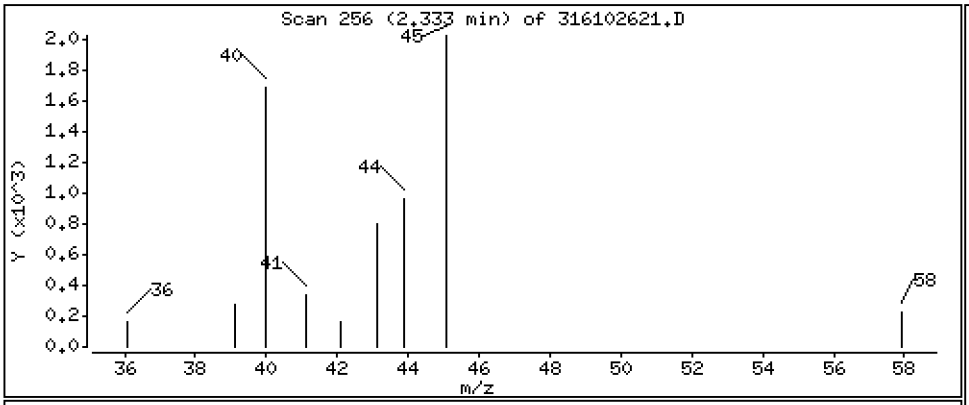
Client ID: FTMM-58-GW-2567MW03 Instrument: ms03.i

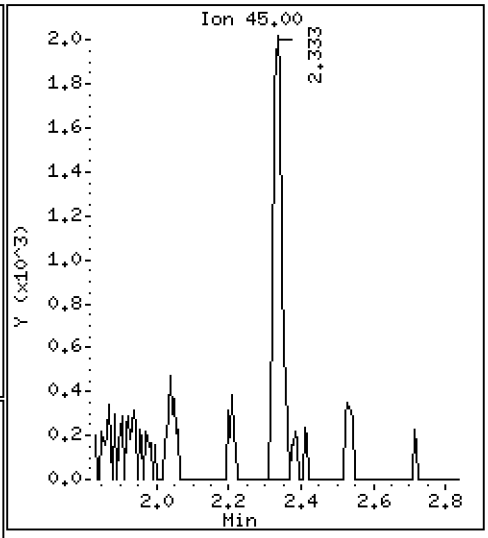
Sample Info: 2184164001;;1;;;;;

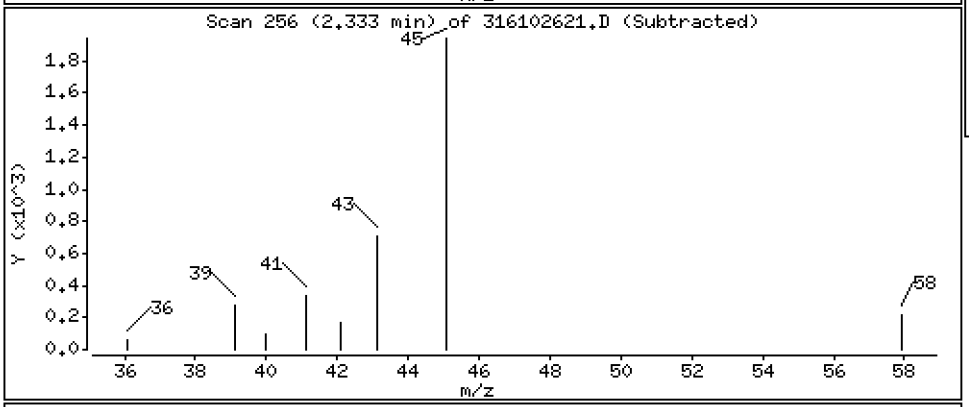
Purge Volume: 5.0 Operator: DD

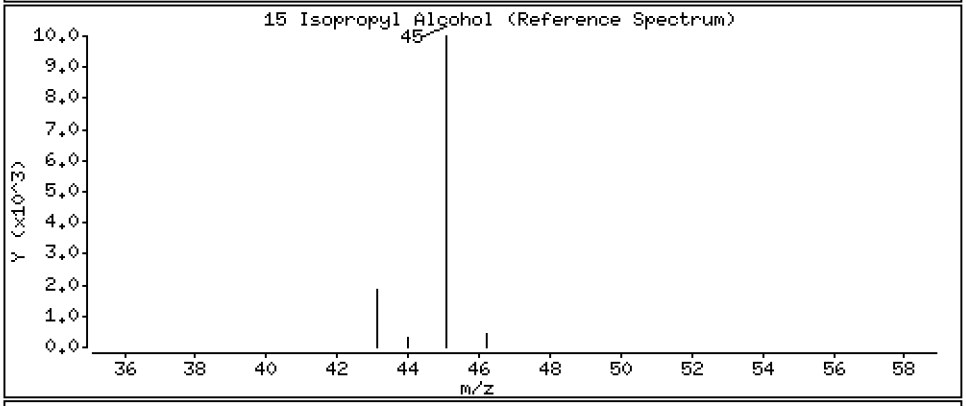
Column phase: DB-VRX Column diameter: 0.25

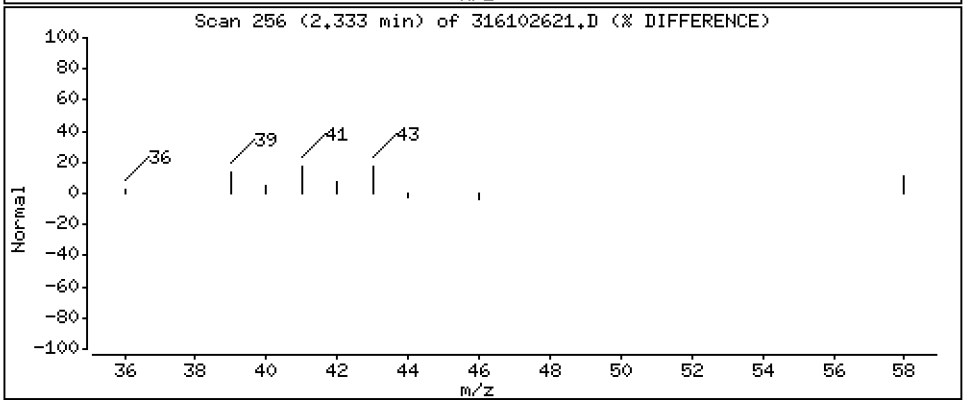
15 Isopropyl Alcohol Concentration: 12.9513 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102621.D Page 10

Date : 26-OCT-2016 16:47

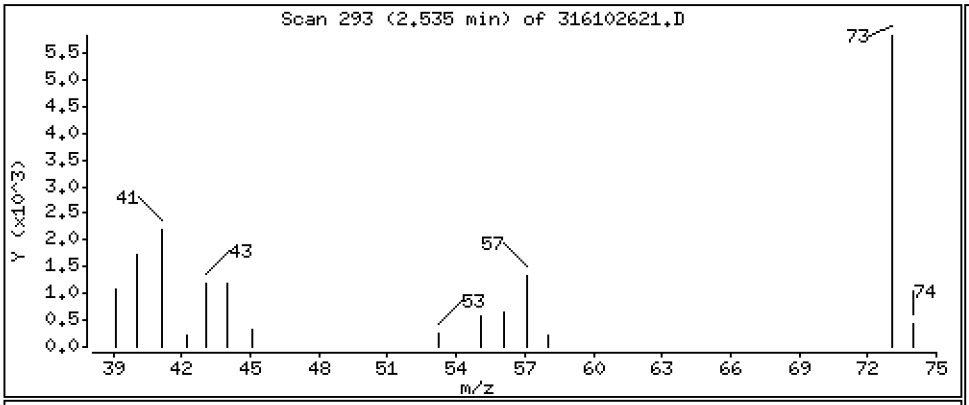
Client ID: FTMM-58-GW-2567MW03 Instrument: ms03.i

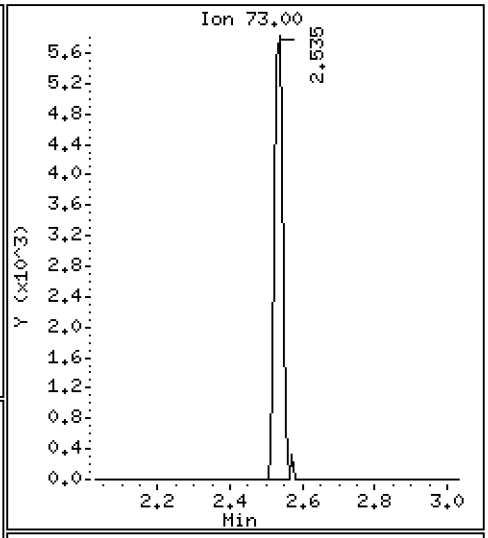
Sample Info: 2184164001;;1;;;;;

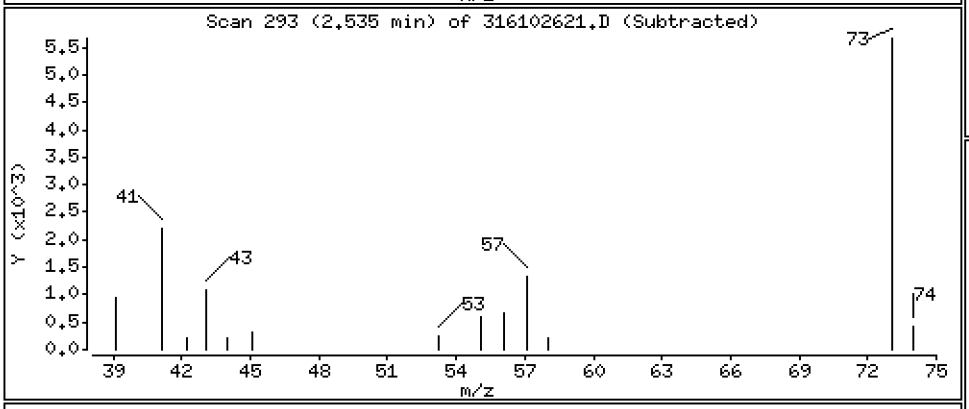
Purge Volume: 5.0 Operator: DD

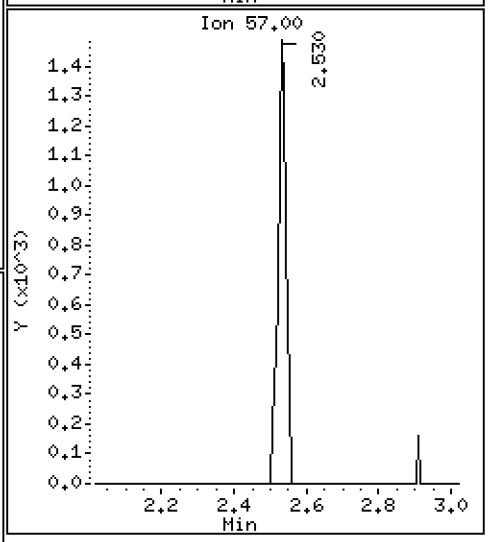
Column phase: DB-VRX Column diameter: 0.25

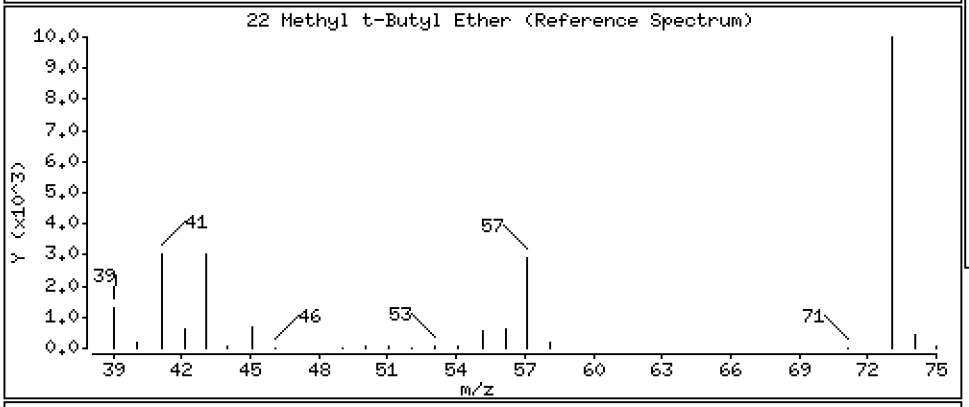
22 Methyl t-Butyl Ether Concentration: 0.447728 ug/L

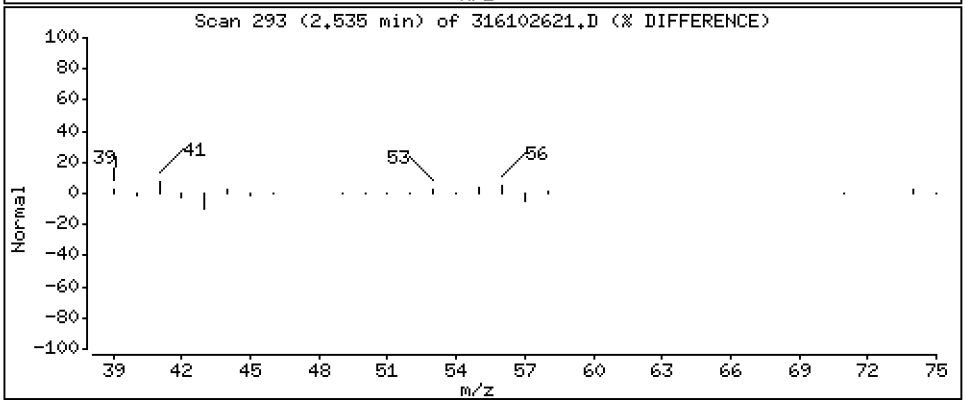












MANUAL INTEGRATION REPORT

Report Date: 10/27/2016 11:31
Lab Sample ID: 2184164001 Client ID: FTMM-58-GW-2567MW03
DataFile:/Chem2/ms03.i/03_2016/3161026.b/316102621.D
RawFile:/Chem2/ms03.i/03_2016/3161026.b/RawData/316102621.D
Injection Date: 26-OCT-2016 16:47 Operator: DD
There were no manual integrations performed on this sample!

UNASSIGNED PEAK REPORT

Report Date: 10/27/2016 11:31
Lab Sample ID: 2184164001 Client ID: FTMM-58-GW-2567MW03
DataFile:/Chem2/ms03.i/03_2016/3161026.b/316102621.D
RawFile:/Chem2/ms03.i/03_2016/3161026.b/RawData/316102621.D
Injection Date: 26-OCT-2016 16:47 Operator: DD
The following compounds were Unassigned:

Chloromethane
Chloroethane
tert.- Butyl Alcohol
1,2-Dichloroethane
Chloroacetonitrile
1,2-Dibromoethane
Bromomethane
Methylene Chloride
Methacrylonitrile
1,4-Dioxane
1,3-Dichloropropane

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FTMM-58-GW-2567MW01-8.6

Lab Name: ALS Global **Contract:**

Lab Code: VOA **Case No.:** **SAS No.:** **SDG No.:** PQF-049

Matrix (soil/water): WATER **Lab Sample ID:** 2184164002

Sample wt/vol: 5.00 (g/mL) ML **Lab File ID:** 316102622.D

Level (low/med): **Date Received:** 10/21/16

% Moisture: not dec. 100.0 **Date Analyzed:** 10/26/16

GC Column: RTXVRX **ID:** 0.25 (mm) **Dilution Factor:** 1.0

Soil Extract Volume: (uL) **Soil Aliquot Volume:** (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-65-0	tert.- Butyl Alcohol	344	

Data File: 316102622.D Page 1
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102622
Lab Smp Id: 2184164002 Client Smp ID: FTMM-58-GW-2567MW01
Inj Date : 26-OCT-2016 17:08
Operator : DD Inst ID: ms03.i
Smp Info : 2184164002;;1;;;;;
Misc Info : ZZ VOMS 41264 D8260W
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b09
Meth Date : 27-Oct-2016 10:55 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	2.333	2.333	(0.616)	3206	14.2362	14.2362(a)	
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 316102622.D Page 2
Report Date: 27-Oct-2016 11:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.530	2.530	(0.667)	16188	0.91662	0.916616(aQ)	
	23 tert.- Butyl Alcohol	59	2.568	2.568	(0.678)	130797	344.128	344.128	
	24 Acetonitrile	41	Compound Not Detected.						
	25 Diisopropyl ether	45	Compound Not Detected.						
	26 Chloroprene	53	Compound Not Detected.						
	27 1,1-Dichloroethane	63	Compound Not Detected.						
	28 Acrylonitrile	53	Compound Not Detected.						
	30 n-Propanol	41	Compound Not Detected.						
	29 Ethyl tert-butyl ether	59	Compound Not Detected.						
	31 Vinyl acetate	86	Compound Not Detected.						
	32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
	33 2,2-Dichloropropane	77	Compound Not Detected.						
M	100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
	34 Bromochloromethane	128	Compound Not Detected.						
	35 Cyclohexane	84	Compound Not Detected.						
	36 Chloroform	83	Compound Not Detected.						
	37 Ethyl acetate	43	Compound Not Detected.						
	38 Methyl acrylate	55	Compound Not Detected.						
	39 Carbon Tetrachloride	117	Compound Not Detected.						
	40 Tetrahydrofuran	42	Compound Not Detected.						
$	41 Dibromofluoromethane	113	3.337	3.337	(0.881)	139655	25.4035	25.4035	
	42 1,1,1-Trichloroethane	97	Compound Not Detected.						
	43 2-Butanone	72	Compound Not Detected.						
	44 1,1-Dichloropropene	75	Compound Not Detected.						
	45 1-Chlorobutane	41	Compound Not Detected.						
	46 Heptane	71	Compound Not Detected.						
	48 Propionitrile	54	Compound Not Detected.						
	47 Benzene	78	Compound Not Detected.						
	49 Methacrylonitrile	67	Compound Not Detected.						
	50 tert-amyl methyl Ether	73	Compound Not Detected.						
$	51 1,2-Dichloroethane-d4	65	3.637	3.637	(0.960)	221308	33.8424	33.8424	
	54 Isobutyl alcohol	43	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
*	55 Fluorobenzene	96	3.790	3.790	(1.000)	833746	30.0000		
	56 Diisobutylene	57	Compound Not Detected.						
	57 Trichloroethene	95	Compound Not Detected.						
	58 Methyl cyclohexane	83	Compound Not Detected.						
	59 tert-Amyl Ethylether	59	Compound Not Detected.						
	60 Dibromomethane	93	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	62 Bromodichloromethane	83	Compound Not Detected.						
	63 Methyl methacrylate	41	Compound Not Detected.						
	64 1,4-Dioxane	88	Compound Not Detected.						
	65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	67 Octane	85	Compound Not Detected.						
$	68 Toluene-d8	98	4.723	4.723	(0.820)	591651	26.8414	26.8414	
	69 Toluene	92	Compound Not Detected.						
	70 Chloroacetonitrile	48	Compound Not Detected.						
	71 2-Nitropropane	41	Compound Not Detected.						
	72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
	73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
	75 trans-1,3-Dichloropropene	75	Compound Not Detected.						

Data File: 316102622.D Page 3
Report Date: 27-Oct-2016 11:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
74 Tetrachloroethene	164	Compound Not Detected.						
76 Ethyl methacrylate	69	Compound Not Detected.						
77 1,1,2-Trichloroethane	83	Compound Not Detected.						
78 Chlorodibromomethane	129	Compound Not Detected.						
79 1,3-Dichloropropane	76	Compound Not Detected.						
80 1,2-Dibromoethane	107	Compound Not Detected.						
81 2-Hexanone	43	Compound Not Detected.						
82 1-Chlorohexane	91	Compound Not Detected.						
* 83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	356814	30.0000		
85 Ethylbenzene	106	Compound Not Detected.						
84 Chlorobenzene	112	Compound Not Detected.						
86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
87 mp-Xylene	106	Compound Not Detected.						
M 120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
88 o-Xylene	106	Compound Not Detected.						
89 Styrene	104	Compound Not Detected.						
90 Bromoform	173	Compound Not Detected.						
91 Isopropylbenzene	105	Compound Not Detected.						
$ 92 4-Bromofluorobenzene	174	6.649	6.649	(0.885)	109509	28.2100	28.2100	
M 121 TOTAL XYLENES	106	Compound Not Detected.						
94 n-Propylbenzene	120	Compound Not Detected.						
93 Bromobenzene	156	Compound Not Detected.						
95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
96 o-Chlorotoluene	91	Compound Not Detected.						
98 1,2,3-Trichloropropane	110	Compound Not Detected.						
99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
101 p-Chlorotoluene	91	Compound Not Detected.						
102 tert-Butylbenzene	134	Compound Not Detected.						
103 Pentachloroethane	117	Compound Not Detected.						
104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
105 sec-Butylbenzene	105	Compound Not Detected.						
106 p-Isopropyltoluene	134	Compound Not Detected.						
107 1,3-Dichlorobenzene	146	Compound Not Detected.						
* 108 1,4-Dichlorobenzene-d4	152	7.517	7.522	(1.000)	187558	30.0000	(Q)	
109 1,4-Dichlorobenzene	146	Compound Not Detected.						
111 n-Butylbenzene	134	Compound Not Detected.						
110 Benzyl Chloride	126	Compound Not Detected.						
112 Hexachloroethane	117	Compound Not Detected.						
113 1,2-Dichlorobenzene	146	Compound Not Detected.						
114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
115 Nitrobenzene	77	Compound Not Detected.						
116 Hexachlorobutadiene	225	Compound Not Detected.						
117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
118 Naphthalene	128	Compound Not Detected.						
119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: 316102622.D Page 4
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i
Lab File ID: 316102622.D
Lab Smp Id: 2184164002
Analysis Type: VOA
Quant Type: ISTD
Operator: DD
Calibration Date: 26-OCT-2016
Calibration Time: 09:18
Client Smp ID: FTMM-58-GW-2567
Level: LOW
Sample Type: WATER
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b0
Misc Info: ZZ VOMS 41264 D8260W

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	833746	-17.71
83 Chlorobenzene-d5	432864	216432	865728	356814	-17.57
108 1,4-Dichlorobenze	273837	136919	547674	187558	-31.51

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	-0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	-0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102622.D Page 5
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

RECOVERY REPORT

Client Name: Parsons - Boston MA Client SDG: PQF049|FTMM PARCEL
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 2184164002 Client Smp ID: FTMM-58-GW-2567MW01
Level: LOW Operator: DD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: WATERQC2006.spk Quant Type: ISTD
Sublist File: DODall.sub
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b0
Misc Info: ZZ VOMS 41264 D8260W

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 41 Dibromofluorometha	30.0000	25.4035	84.68	80-119
$ 51 1,2-Dichloroethane	30.0000	33.8424	112.81	81-118
$ 68 Toluene-d8	30.0000	26.8414	89.47	89-112
$ 92 4-Bromofluorobenze	30.0000	28.2100	94.03	85-114

Data File: 316102622.D Page 6
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Parsons - Boston MA
Lab Smp Id: 2184164002
Sample Location:
Sample Date: 21-OCT-2016
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41264 D8260W

Client SDG: PQF049|FTMM PARCEL
Client Smp ID: FTMM-58-GW-2567MW01
Sample Point:
Date Received: 21-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: DD

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
67-63-0	Isopropyl Alcohol	14.2362	J
1634-04-4	Methyl t-Butyl Ether	0.916616	J
75-65-0	tert.- Butyl Alcohol	344.128	
1868-53-7	Dibromofluoromethane	25.4035	
17060-07-0	1,2-Dichloroethane-d4	33.8424	
2037-26-5	Toluene-d8	26.8414	
460-00-4	4-Bromofluorobenzene	28.2100	

Data File: 316102622.D Page 7
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

TENTATIVELY IDENTIFIED COMPOUNDS

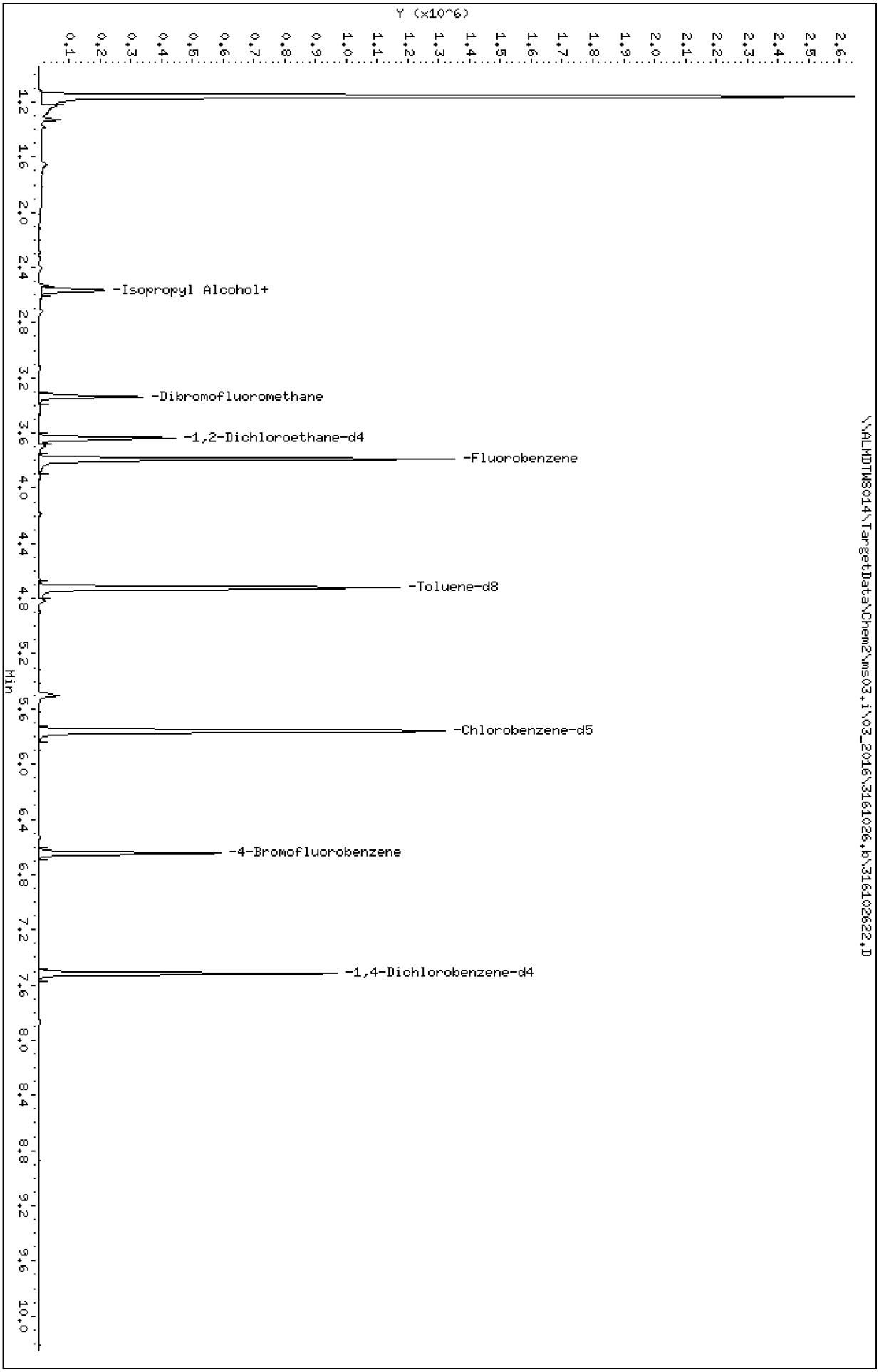
Client Name: Parsons - Boston MA
Lab Smp Id: 2184164002
Operator : DD
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 26-OCT-2016 17:08

Client SDG: PQF049|FTMM PARCEL
Client Smp ID: FTMM-58-GW-2567MW01
Sample Date: 21-OCT-2016
Sample Point:
Date Received:21-OCT-2016 00:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q


Y (x10^6)
Min
-Isopropyl Alcohol+
-Dibromofluoromethane
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4-Dichlorobenzene-d4
Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3161026.22.D
Date : 26-OCT-2016 17:08
Client ID: FTMM-58-GW-2567MW01
Sample Info: 2184164002;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: DD
Column diameter: 0.25
\\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3161026.22.D
Page 8

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102622.D Page 9

Date : 26-OCT-2016 17:08

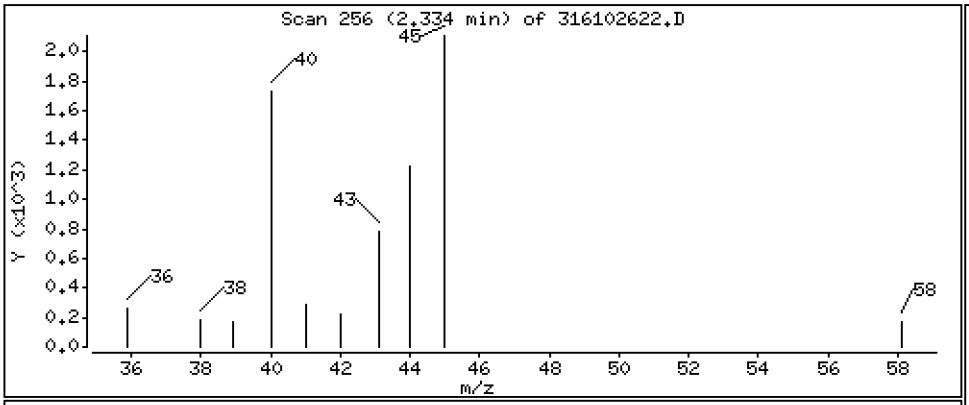
Client ID: FTMM-58-GW-2567MW01 Instrument: ms03.i

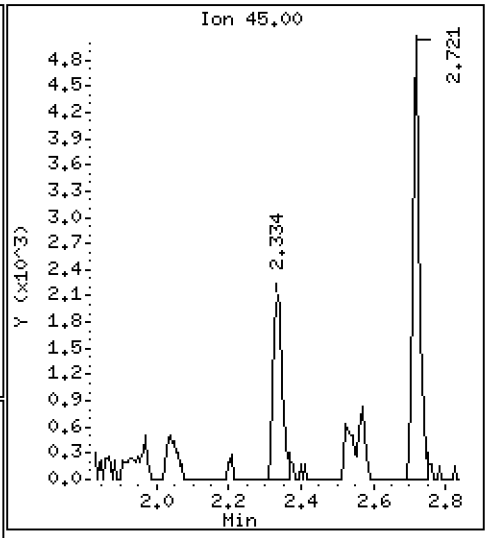
Sample Info: 2184164002;;1;;;;;

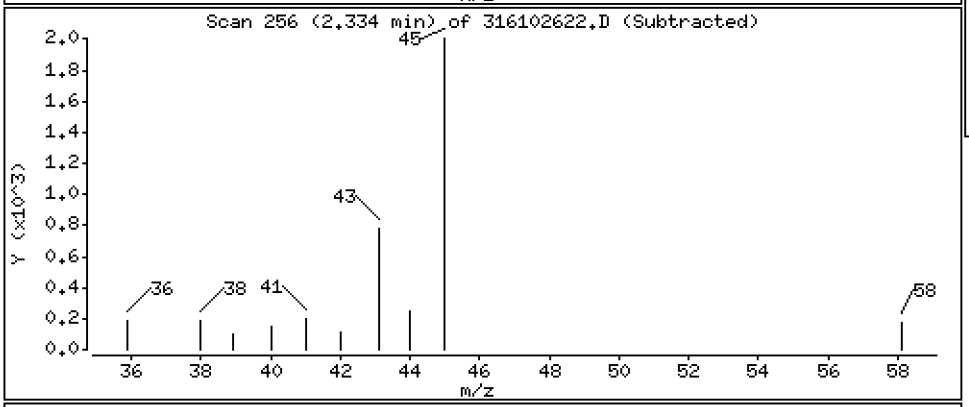
Purge Volume: 5.0 Operator: DD

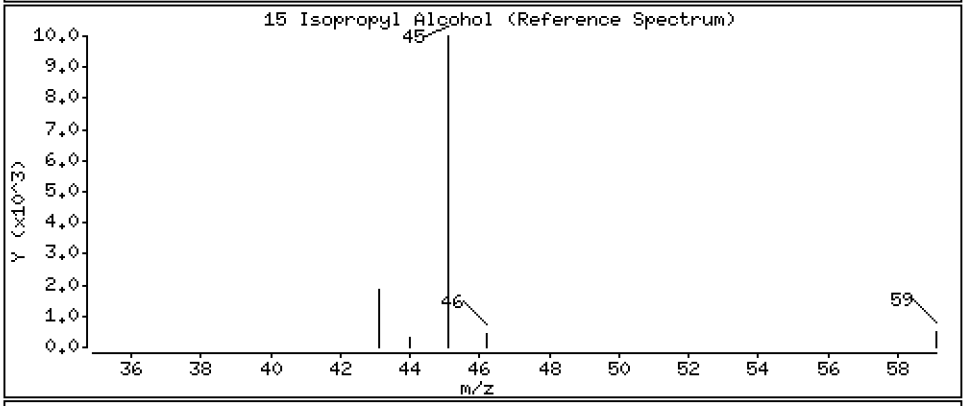
Column phase: DB-VRX Column diameter: 0.25

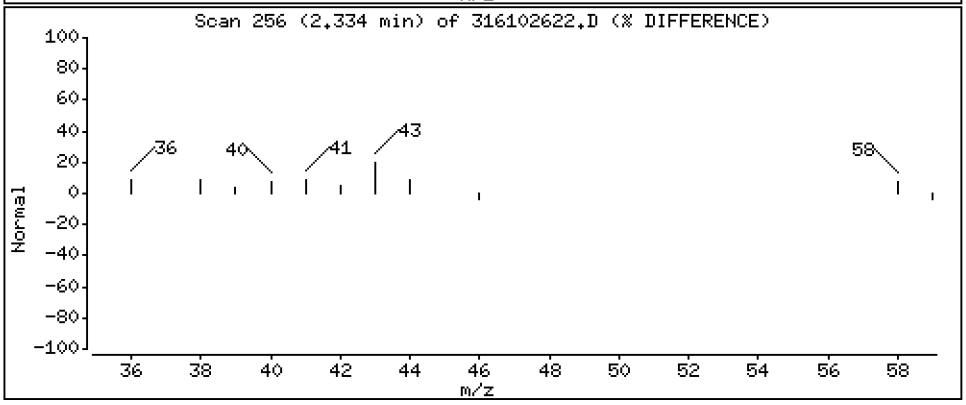
15 Isopropyl Alcohol Concentration: 14.2362 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102622.D Page 10

Date : 26-OCT-2016 17:08

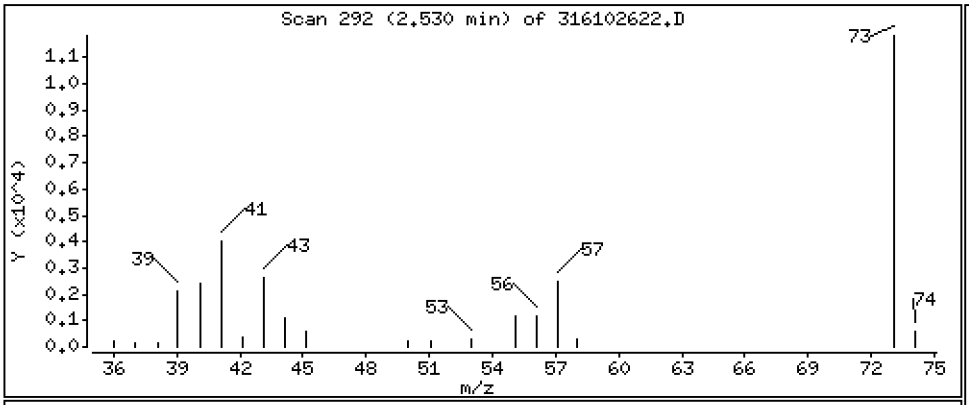
Client ID: FTMM-58-GW-2567MW01 Instrument: ms03.i

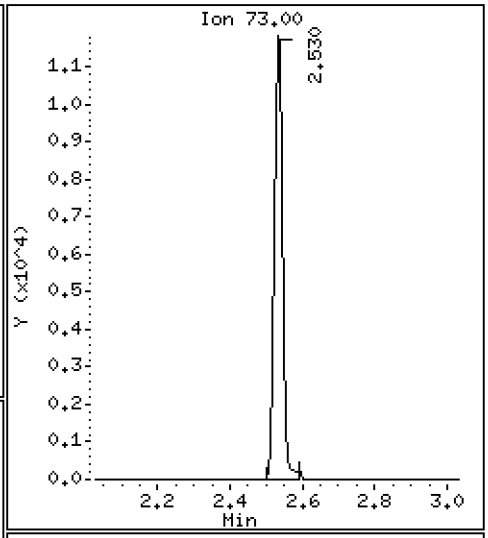
Sample Info: 2184164002;;1;;;;;

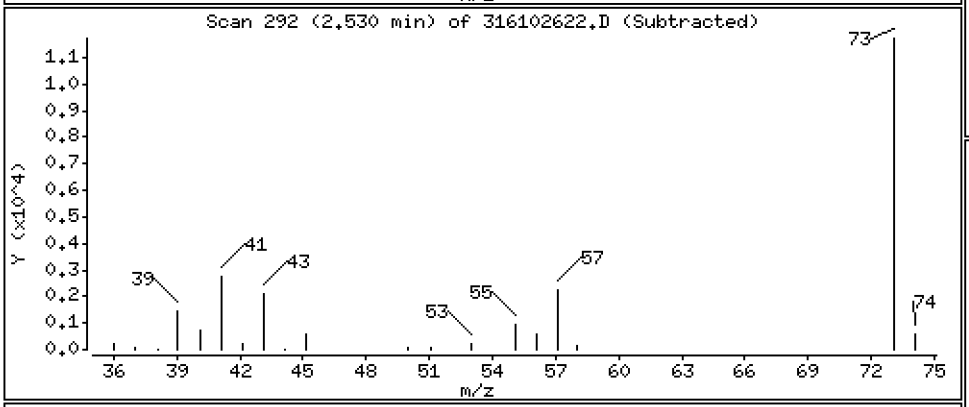
Purge Volume: 5.0 Operator: DD

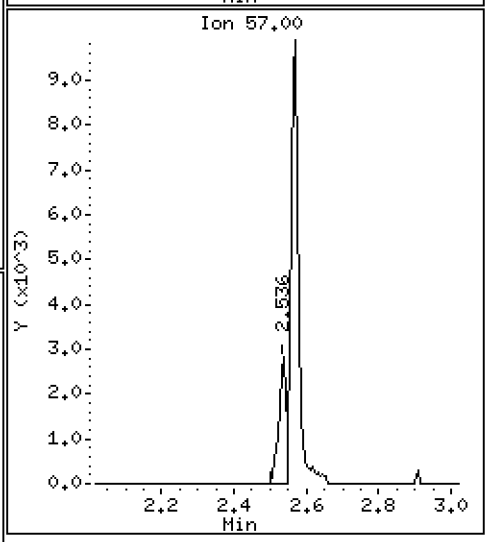
Column phase: DB-VRX Column diameter: 0.25

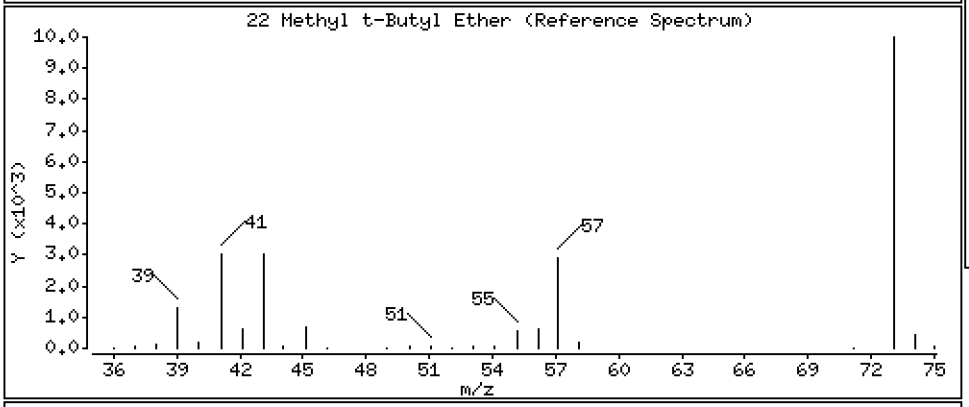
22 Methyl t-Butyl Ether Concentration: 0.916616 ug/L

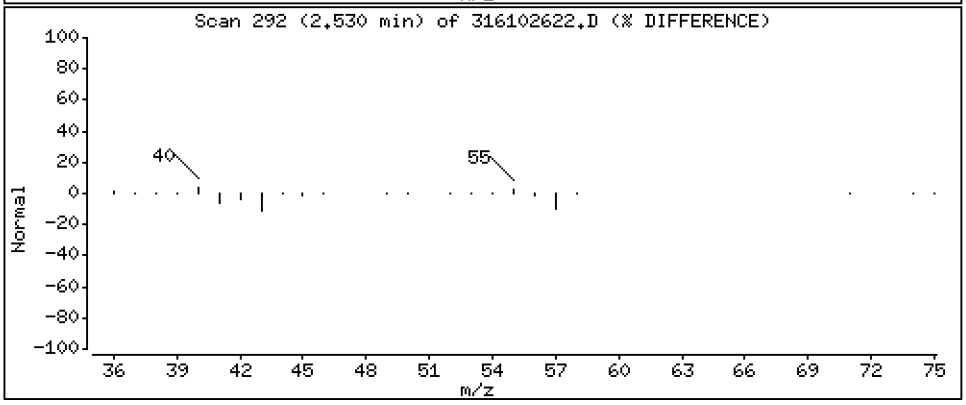












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102622.D Page 11

Date : 26-OCT-2016 17:08

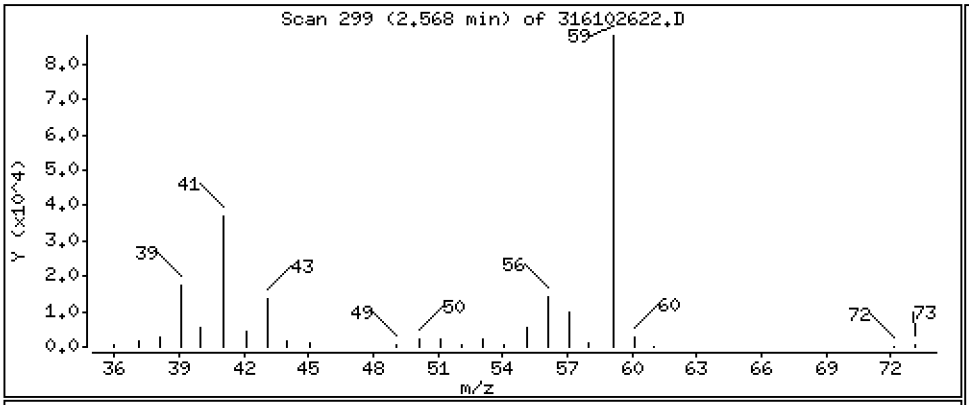
Client ID: FTMM-58-GW-2567MW01 Instrument: ms03.i

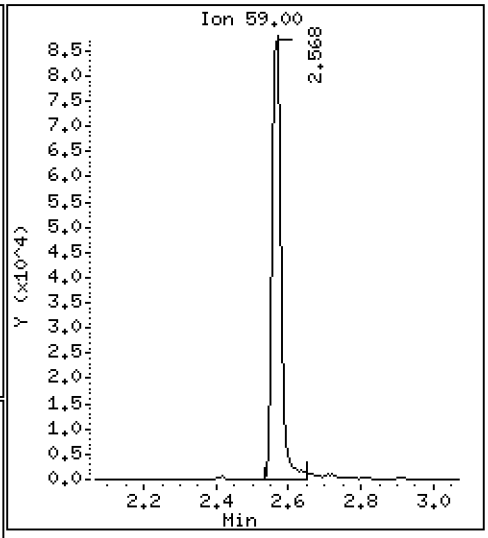
Sample Info: 2184164002;;1;;;;;

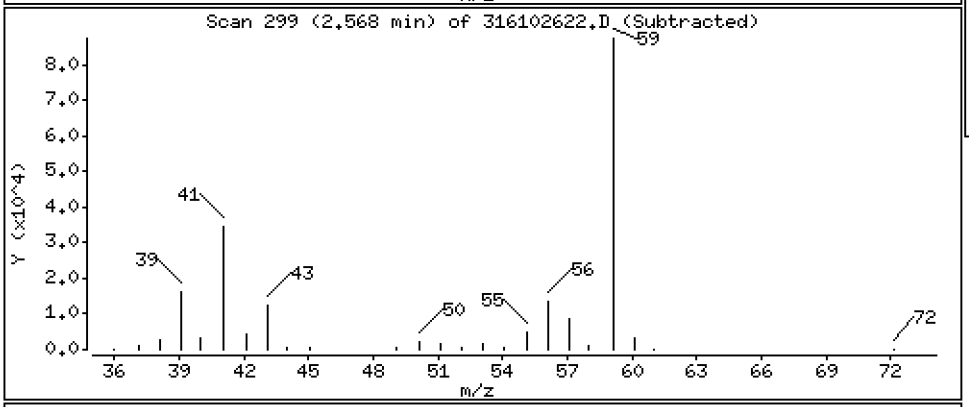
Purge Volume: 5.0 Operator: DD

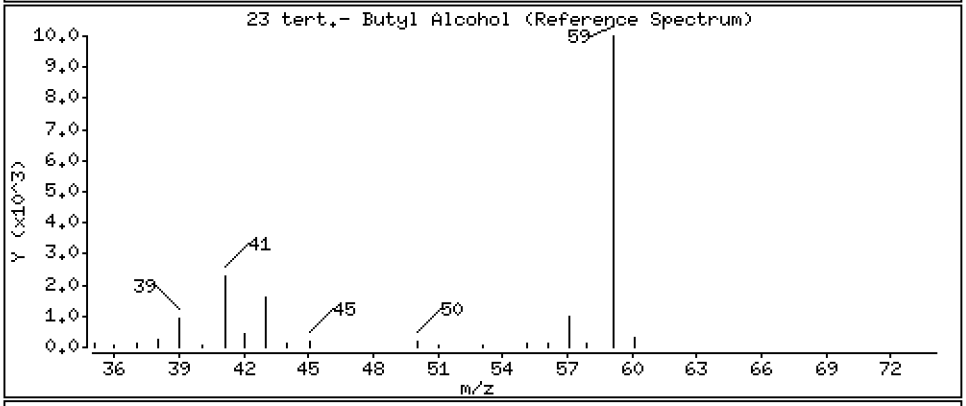
Column phase: DB-VRX Column diameter: 0.25

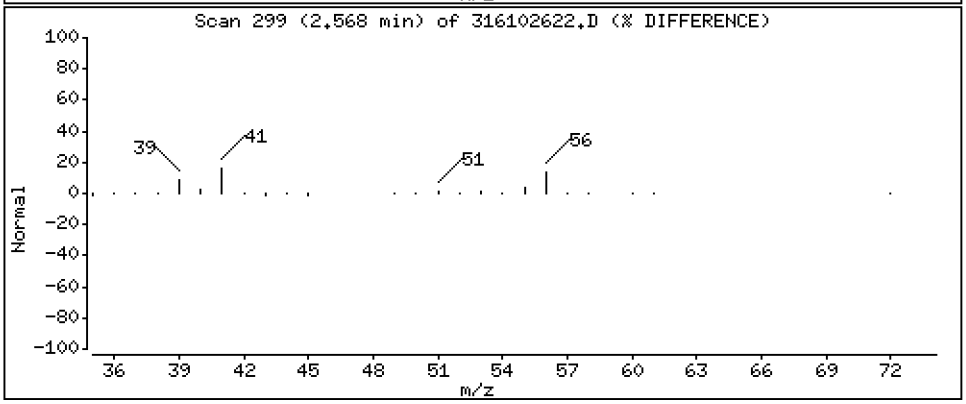
23 tert.- Butyl Alcohol Concentration: 344.128 ug/L











MANUAL INTEGRATION REPORT

Report Date: 10/27/2016 11:31
Lab Sample ID: 2184164002 Client ID: FTMM-58-GW-2567MW01
DataFile:/Chem2/ms03.i/03_2016/3161026.b/316102622.D
RawFile:/Chem2/ms03.i/03_2016/3161026.b/RawData/316102622.D
Injection Date: 26-OCT-2016 17:08 Operator: DD
There were no manual integrations performed on this sample!

UNASSIGNED PEAK REPORT

Report Date: 10/27/2016 11:31
Lab Sample ID: 2184164002 Client ID: FTMM-58-GW-2567MW01
DataFile:/Chem2/ms03.i/03_2016/3161026.b/316102622.D
RawFile:/Chem2/ms03.i/03_2016/3161026.b/RawData/316102622.D
Injection Date: 26-OCT-2016 17:08 Operator: DD
The following compounds were Unassigned:

Chloromethane
Pentane
Methylene Chloride
Methyl acetate
Acetonitrile
n-Propanol
Methacrylonitrile
1,2-Dichloroethane
1,4-Dioxane
2-Nitropropane
Bromomethane
Acrolein
Acetone
Hexane
Acrylonitrile
Heptane
Isobutyl alcohol
tert-Amyl Alcohol
Chloroacetonitrile

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

FTMM-58-GW-2567MW05-11

Lab Name: ALS Global **Contract:**

Lab Code: VOA **Case No.:** **SAS No.:** **SDG No.:** PQF-049

Matrix (soil/water): WATER **Lab Sample ID:** 2184164003

Sample wt/vol: 5.00 (g/mL) ML **Lab File ID:** 316102623.D

Level (low/med): **Date Received:** 10/21/16

% Moisture: not dec. 100.0 **Date Analyzed:** 10/26/16

GC Column: RTXVRX **ID:** 0.25 (mm) **Dilution Factor:** 1.0

Soil Extract Volume: (uL) **Soil Aliquot Volume:** (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-65-0	tert.- Butyl Alcohol	12.5	U

Data File: 316102623.D Page 1
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102623
Lab Smp Id: 2184164003 Client Smp ID: FTMM-58-GW-2567MW05
Inj Date : 26-OCT-2016 17:30
Operator : DD Inst ID: ms03.i
Smp Info : 2184164003;;1;;;;;
Misc Info : ZZ VOMS 41264 D8260W
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b09
Meth Date : 27-Oct-2016 10:55 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	2.333	2.333	(0.616)	3514	15.5433	15.5433(a)	
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 316102623.D Page 2
Report Date: 27-Oct-2016 11:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
22 Methyl t-Butyl Ether	73	Compound Not Detected.						
23 tert.- Butyl Alcohol	59	2.562	2.568	(0.676)	1141	2.99032	2.99032(aH)	
24 Acetonitrile	41	Compound Not Detected.						
25 Diisopropyl ether	45	Compound Not Detected.						
26 Chloroprene	53	Compound Not Detected.						
27 1,1-Dichloroethane	63	Compound Not Detected.						
28 Acrylonitrile	53	Compound Not Detected.						
30 n-Propanol	41	Compound Not Detected.						
29 Ethyl tert-butyl ether	59	Compound Not Detected.						
31 Vinyl acetate	86	Compound Not Detected.						
32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
33 2,2-Dichloropropane	77	Compound Not Detected.						
M 100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
34 Bromochloromethane	128	Compound Not Detected.						
35 Cyclohexane	84	Compound Not Detected.						
36 Chloroform	83	Compound Not Detected.						
37 Ethyl acetate	43	Compound Not Detected.						
38 Methyl acrylate	55	Compound Not Detected.						
39 Carbon Tetrachloride	117	Compound Not Detected.						
40 Tetrahydrofuran	42	Compound Not Detected.						
$ 41 Dibromofluoromethane	113	3.337	3.337	(0.881)	135298	24.5153	24.5153	
42 1,1,1-Trichloroethane	97	Compound Not Detected.						
43 2-Butanone	72	Compound Not Detected.						
44 1,1-Dichloropropene	75	Compound Not Detected.						
45 1-Chlorobutane	41	Compound Not Detected.						
46 Heptane	71	Compound Not Detected.						
48 Propionitrile	54	Compound Not Detected.						
47 Benzene	78	Compound Not Detected.						
49 Methacrylonitrile	67	Compound Not Detected.						
50 tert-amyl methyl Ether	73	Compound Not Detected.						
$ 51 1,2-Dichloroethane-d4	65	3.637	3.637	(0.960)	221205	33.6952	33.6952	
54 Isobutyl alcohol	43	Compound Not Detected.						
52 1,2-Dichloroethane	62	Compound Not Detected.						
53 tert-Amyl Alcohol	59	Compound Not Detected.						
* 55 Fluorobenzene	96	3.790	3.790	(1.000)	836999	30.0000		
56 Diisobutylene	57	Compound Not Detected.						
57 Trichloroethene	95	Compound Not Detected.						
58 Methyl cyclohexane	83	Compound Not Detected.						
59 tert-Amyl Ethylether	59	Compound Not Detected.						
60 Dibromomethane	93	Compound Not Detected.						
61 1,2-Dichloropropane	63	Compound Not Detected.						
62 Bromodichloromethane	83	Compound Not Detected.						
63 Methyl methacrylate	41	Compound Not Detected.						
64 1,4-Dioxane	88	Compound Not Detected.						
65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
67 Octane	85	Compound Not Detected.						
$ 68 Toluene-d8	98	4.723	4.723	(0.820)	590891	27.1793	27.1793	
69 Toluene	92	Compound Not Detected.						
70 Chloroacetonitrile	48	Compound Not Detected.						
71 2-Nitropropane	41	Compound Not Detected.						
72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
75 trans-1,3-Dichloropropene	75	Compound Not Detected.						

Data File: 316102623.D Page 3
Report Date: 27-Oct-2016 11:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	351906	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	6.649	6.649	(0.885)	109600	28.1704	28.1704	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.517	7.522	(1.000)	187978	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: 316102623.D Page 4
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i
Lab File ID: 316102623.D
Lab Smp Id: 2184164003
Analysis Type: VOA
Quant Type: ISTD
Operator: DD
Calibration Date: 26-OCT-2016
Calibration Time: 09:18
Client Smp ID: FTMM-58-GW-2567
Level: LOW
Sample Type: WATER
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b0
Misc Info: ZZ VOMS 41264 D8260W

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	836999	-17.39
83 Chlorobenzene-d5	432864	216432	865728	351906	-18.70
108 1,4-Dichlorobenze	273837	136919	547674	187978	-31.35

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	-0.01
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	-0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.08

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102623.D Page 5
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

RECOVERY REPORT

Client Name: Parsons - Boston MA Client SDG: PQF049|FTMM PARCEL
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 2184164003 Client Smp ID: FTMM-58-GW-2567MW05
Level: LOW Operator: DD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: WATERQC2006.spk Quant Type: ISTD
Sublist File: DODall.sub
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b0
Misc Info: ZZ VOMS 41264 D8260W

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 41 Dibromofluorometha	30.0000	24.5153	81.72	80-119
$ 51 1,2-Dichloroethane	30.0000	33.6952	112.32	81-118
$ 68 Toluene-d8	30.0000	27.1793	90.60	89-112
$ 92 4-Bromofluorobenze	30.0000	28.1704	93.90	85-114

Data File: 316102623.D Page 6
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Parsons - Boston MA
Lab Smp Id: 2184164003
Sample Location:
Sample Date: 21-OCT-2016
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41264 D8260W

Client SDG: PQF049|FTMM PARCEL
Client Smp ID: FTMM-58-GW-2567MW05
Sample Point:
Date Received: 21-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: DD

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
67-63-0	Isopropyl Alcohol	15.5433	J
75-65-0	tert.- Butyl Alcohol	2.99032	J
1868-53-7	Dibromofluoromethane	24.5153	
17060-07-0	1,2-Dichloroethane-d4	33.6952	
2037-26-5	Toluene-d8	27.1793	
460-00-4	4-Bromofluorobenzene	28.1704	

Data File: 316102623.D Page 7
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

TENTATIVELY IDENTIFIED COMPOUNDS

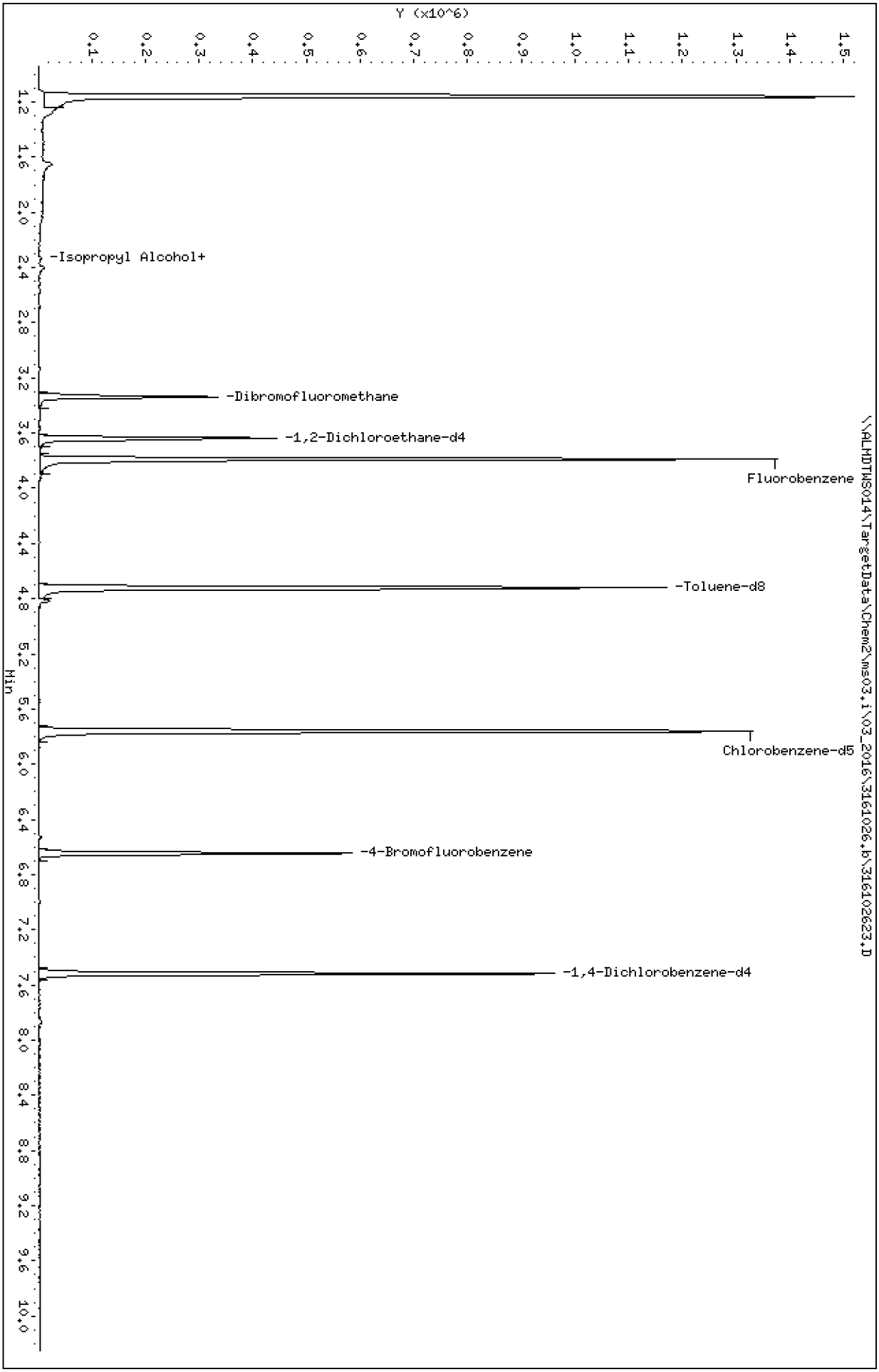
Client Name: Parsons - Boston MA
Lab Smp Id: 2184164003
Operator : DD
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 26-OCT-2016 17:30

Client SDG: PQF049|FTMM PARCEL
Client Smp ID: FTMM-58-GW-2567MW05
Sample Date: 21-OCT-2016
Sample Point:
Date Received:21-OCT-2016 00:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q


JMSL 11/29/2016
Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3161026623.D
Date : 26-OCT-2016 17:30
Client ID: FTMM-58-GW-2567MW01
Sample Info: 2184164003;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: DD
Column diameter: 0.25
Page 8
Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.2
1.6
2.0
2.4
2.8
3.2
3.6
4.0
4.4
4.8
5.2
5.6
6.0
6.4
6.8
7.2
7.6
8.0
8.4
8.8
9.2
9.6
10.0
Min
-Isopropyl Alcohol+
-Dibromofluoromethane
-1,2-Dichloroethane-d4
Fluorobenzene
-Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4-Dichlorobenzene-d4
\\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3161026623.D

JMSL 11/29/2016

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102623.D Page 9

Date : 26-OCT-2016 17:30

Client ID: FTMM-58-GW-2567MW01 5

Instrument: ms03.i

Sample Info: 2184164003;;1;;;;;

Purge Volume: 5.0

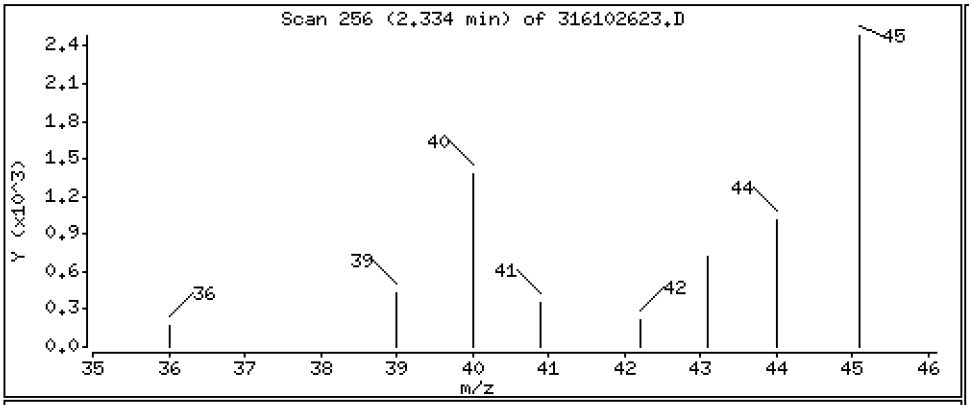
Operator: DD

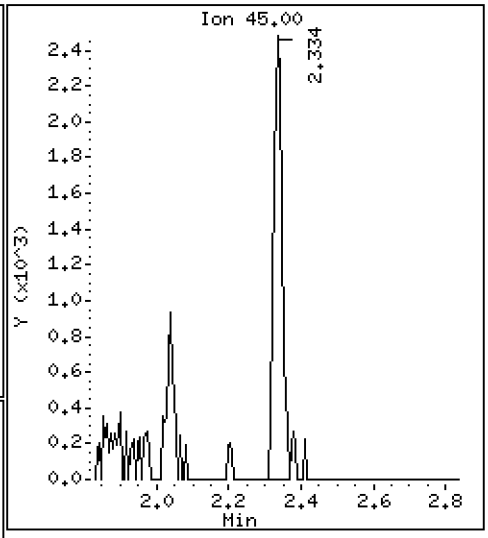
Column phase: DB-VRX

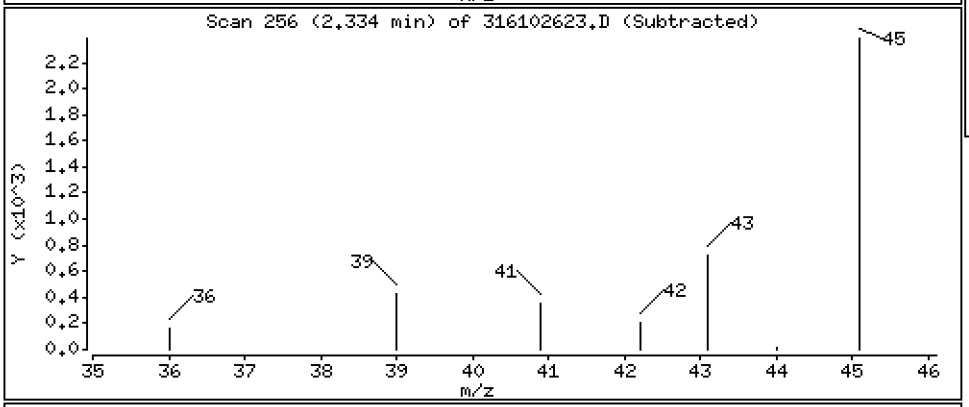
Column diameter: 0.25

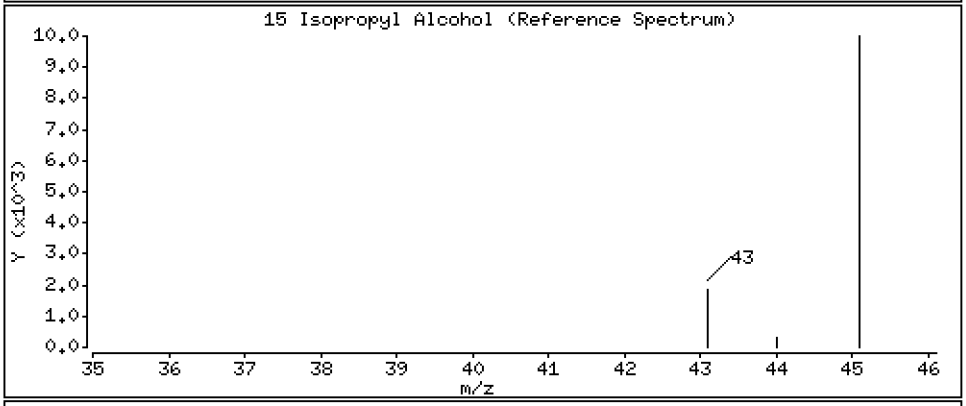
15 Isopropyl Alcohol

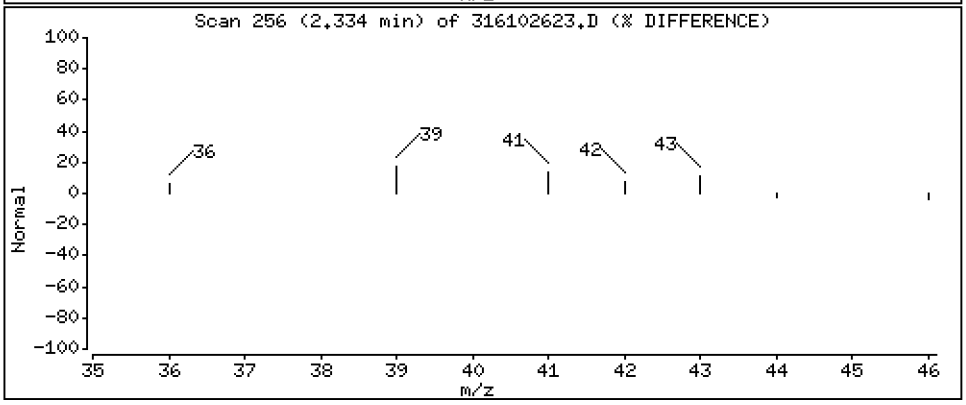
Concentration: 15.5433 ug/L











JMSL 11/29/2016

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102623.D Page 10

Date : 26-OCT-2016 17:30

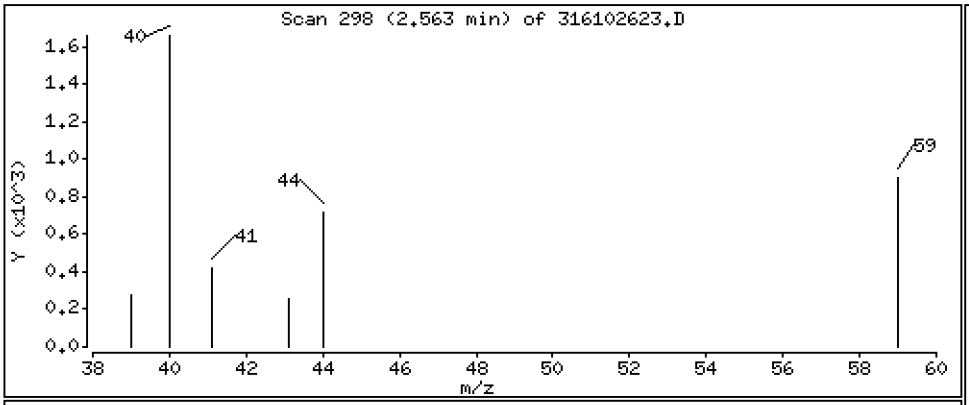
Client ID: FTMM-58-GW-2567MW01 5 Instrument: ms03.i

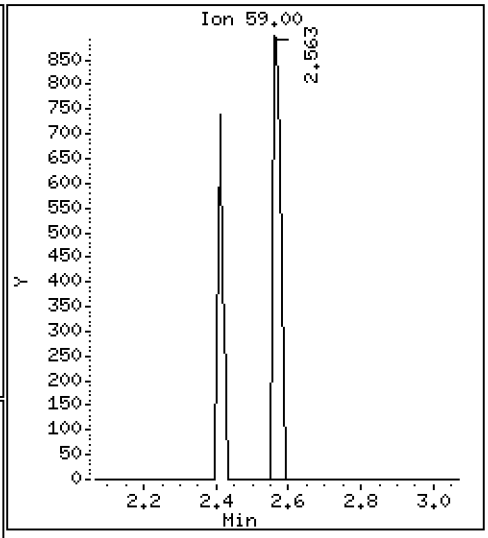
Sample Info: 2184164003;;1;;;;;

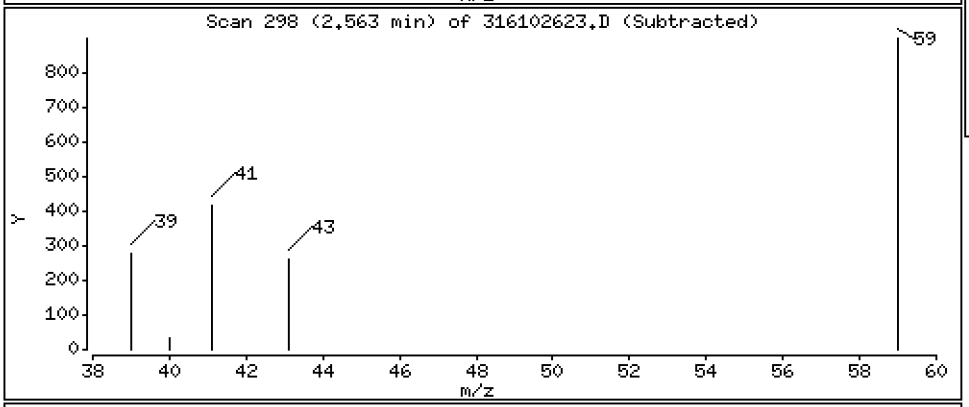
Purge Volume: 5.0 Operator: DD

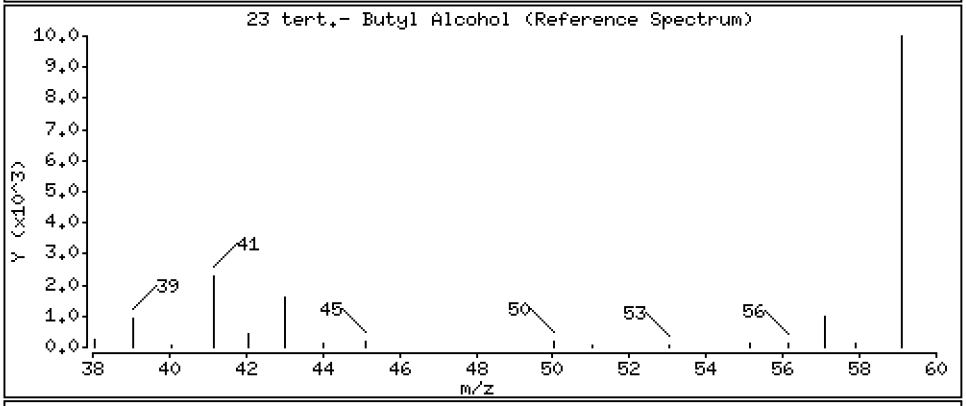
Column phase: DB-VRX Column diameter: 0.25

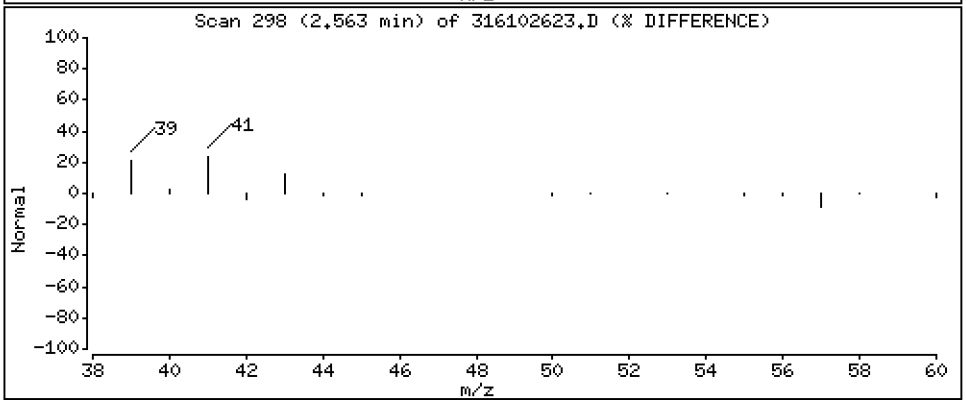
23 tert.- Butyl Alcohol Concentration: 2.99032 ug/L











MANUAL INTEGRATION REPORT

Report Date: 10/27/2016 11:31
Lab Sample ID: 2184164003 Client ID: FTMM-58-GW-2567MW05
DataFile:/Chem2/ms03.i/03_2016/3161026.b/316102623.D
RawFile:/Chem2/ms03.i/03_2016/3161026.b/RawData/316102623.D
Injection Date: 26-OCT-2016 17:30 Operator: DD
There were no manual integrations performed on this sample!

UNASSIGNED PEAK REPORT

Report Date: 10/27/2016 11:31
Lab Sample ID: 2184164003 Client ID: FTMM-58-GW-2567MW05
DataFile:/Chem2/ms03.i/03_2016/3161026.b/316102623.D
RawFile:/Chem2/ms03.i/03_2016/3161026.b/RawData/316102623.D
Injection Date: 26-OCT-2016 17:30 Operator: DD
The following compounds were Unassigned:

Chloromethane
Methylene Chloride
1,2-Dichloroethane
Chloroacetonitrile
1,1-Dichloro-2-propanone
Bromomethane
Methacrylonitrile
1,4-Dioxane
2-Nitropropane

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

EB-20161021

Lab Name: ALS Global **Contract:**

Lab Code: VOA **Case No.:** **SAS No.:** **SDG No.:** PQF-049

Matrix (soil/water): WATER **Lab Sample ID:** 2184164004

Sample wt/vol: 5.00 (g/mL) ML **Lab File ID:** 316102609.D

Level (low/med): **Date Received:** 10/21/16

% Moisture: not dec. 100.0 **Date Analyzed:** 10/26/16

GC Column: RTXVRX **ID:** 0.25 (mm) **Dilution Factor:** 1.0

Soil Extract Volume: (uL) **Soil Aliquot Volume:** (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-65-0	tert.- Butyl Alcohol	12.5	U

Data File: 316102609.D Page 1
Report Date: 27-Oct-2016 11:30

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102609
Lab Smp Id: 2184164004 Client Smp ID: EB-20161021
Inj Date : 26-OCT-2016 12:23
Operator : DD Inst ID: ms03.i
Smp Info : 2184164004;;1;;;;;
Misc Info : ZZ VOMS 41264 D8260W
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b09
Meth Date : 27-Oct-2016 10:55 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	2.333	2.333	(0.616)	3032	12.8120	12.8120(a)	
17 Methylene Chloride	84	Compound Not Detected.						
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 316102609.D Page 2
Report Date: 27-Oct-2016 11:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
22 Methyl t-Butyl Ether	73	Compound Not Detected.						
23 tert.- Butyl Alcohol	59	2.562	2.568	(0.676)	2025	5.06995	5.06995(a)	
24 Acetonitrile	41	Compound Not Detected.						
25 Diisopropyl ether	45	Compound Not Detected.						
26 Chloroprene	53	Compound Not Detected.						
27 1,1-Dichloroethane	63	Compound Not Detected.						
28 Acrylonitrile	53	Compound Not Detected.						
30 n-Propanol	41	Compound Not Detected.						
29 Ethyl tert-butyl ether	59	Compound Not Detected.						
31 Vinyl acetate	86	Compound Not Detected.						
32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
33 2,2-Dichloropropane	77	Compound Not Detected.						
M 100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
34 Bromochloromethane	128	Compound Not Detected.						
35 Cyclohexane	84	Compound Not Detected.						
36 Chloroform	83	Compound Not Detected.						
37 Ethyl acetate	43	Compound Not Detected.						
38 Methyl acrylate	55	Compound Not Detected.						
39 Carbon Tetrachloride	117	Compound Not Detected.						
40 Tetrahydrofuran	42	Compound Not Detected.						
$ 41 Dibromofluoromethane	113	3.337	3.337	(0.881)	145240	25.1408	25.1408	
42 1,1,1-Trichloroethane	97	Compound Not Detected.						
43 2-Butanone	72	Compound Not Detected.						
44 1,1-Dichloropropene	75	Compound Not Detected.						
45 1-Chlorobutane	41	Compound Not Detected.						
46 Heptane	71	Compound Not Detected.						
48 Propionitrile	54	Compound Not Detected.						
47 Benzene	78	Compound Not Detected.						
49 Methacrylonitrile	67	Compound Not Detected.						
50 tert-amyl methyl Ether	73	Compound Not Detected.						
$ 51 1,2-Dichloroethane-d4	65	3.637	3.637	(0.960)	228325	33.2257	33.2257	
54 Isobutyl alcohol	43	Compound Not Detected.						
52 1,2-Dichloroethane	62	Compound Not Detected.						
53 tert-Amyl Alcohol	59	Compound Not Detected.						
* 55 Fluorobenzene	96	3.790	3.790	(1.000)	876149	30.0000		
56 Diisobutylene	57	Compound Not Detected.						
57 Trichloroethene	95	Compound Not Detected.						
58 Methyl cyclohexane	83	Compound Not Detected.						
59 tert-Amyl Ethylether	59	Compound Not Detected.						
60 Dibromomethane	93	Compound Not Detected.						
61 1,2-Dichloropropane	63	Compound Not Detected.						
62 Bromodichloromethane	83	Compound Not Detected.						
63 Methyl methacrylate	41	Compound Not Detected.						
64 1,4-Dioxane	88	Compound Not Detected.						
65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
67 Octane	85	Compound Not Detected.						
$ 68 Toluene-d8	98	4.723	4.723	(0.820)	633278	27.9788	27.9788	
69 Toluene	92	Compound Not Detected.						
70 Chloroacetonitrile	48	Compound Not Detected.						
71 2-Nitropropane	41	Compound Not Detected.						
72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
75 trans-1,3-Dichloropropene	75	Compound Not Detected.						

Data File: 316102609.D Page 3
Report Date: 27-Oct-2016 11:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	366324	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	6.649	6.649	(0.884)	118275	28.5043	28.5043	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.522	7.522	(1.000)	200480	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	Compound Not Detected.						
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: 316102609.D Page 4
Report Date: 27-Oct-2016 11:30

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i
Lab File ID: 316102609.D
Lab Smp Id: 2184164004
Analysis Type: VOA
Quant Type: ISTD
Operator: DD
Calibration Date: 26-OCT-2016
Calibration Time: 09:18
Client Smp ID: EB-20161021
Level: LOW
Sample Type: WATER
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b0
Misc Info: ZZ VOMS 41264 D8260W

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	876149	-13.52
83 Chlorobenzene-d5	432864	216432	865728	366324	-15.37
108 1,4-Dichlorobenze	273837	136919	547674	200480	-26.79

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	-0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	-0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102609.D Page 5
Report Date: 27-Oct-2016 11:30

ALS Environmental Services

RECOVERY REPORT

Client Name: Parsons - Boston MA Client SDG: PQF049|FTMM PARCEL
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 2184164004 Client Smp ID: EB-20161021
Level: LOW Operator: DD
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: WATERQC2006.spk Quant Type: ISTD
Sublist File: DODall.sub
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b0
Misc Info: ZZ VOMS 41264 D8260W

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 41 Dibromofluorometha	30.0000	25.1408	83.80	80-119
$ 51 1,2-Dichloroethane	30.0000	33.2257	110.75	81-118
$ 68 Toluene-d8	30.0000	27.9788	93.26	89-112
$ 92 4-Bromofluorobenze	30.0000	28.5043	95.01	85-114

Data File: 316102609.D Page 6
Report Date: 27-Oct-2016 11:30

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Parsons - Boston MA
Lab Smp Id: 2184164004
Sample Location:
Sample Date: 21-OCT-2016
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41264 D8260W

Client SDG: PQF049|FTMM PARCEL
Client Smp ID: EB-20161021
Sample Point:
Date Received: 21-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: DD

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
67-63-0	Isopropyl Alcohol	12.8120	J
75-65-0	tert.- Butyl Alcohol	5.06995	J
1868-53-7	Dibromofluoromethane	25.1408	
17060-07-0	1,2-Dichloroethane-d4	33.2257	
2037-26-5	Toluene-d8	27.9788	
460-00-4	4-Bromofluorobenzene	28.5043	

Data File: 316102609.D Page 7
Report Date: 27-Oct-2016 11:30

ALS Environmental Services

TENTATIVELY IDENTIFIED COMPOUNDS

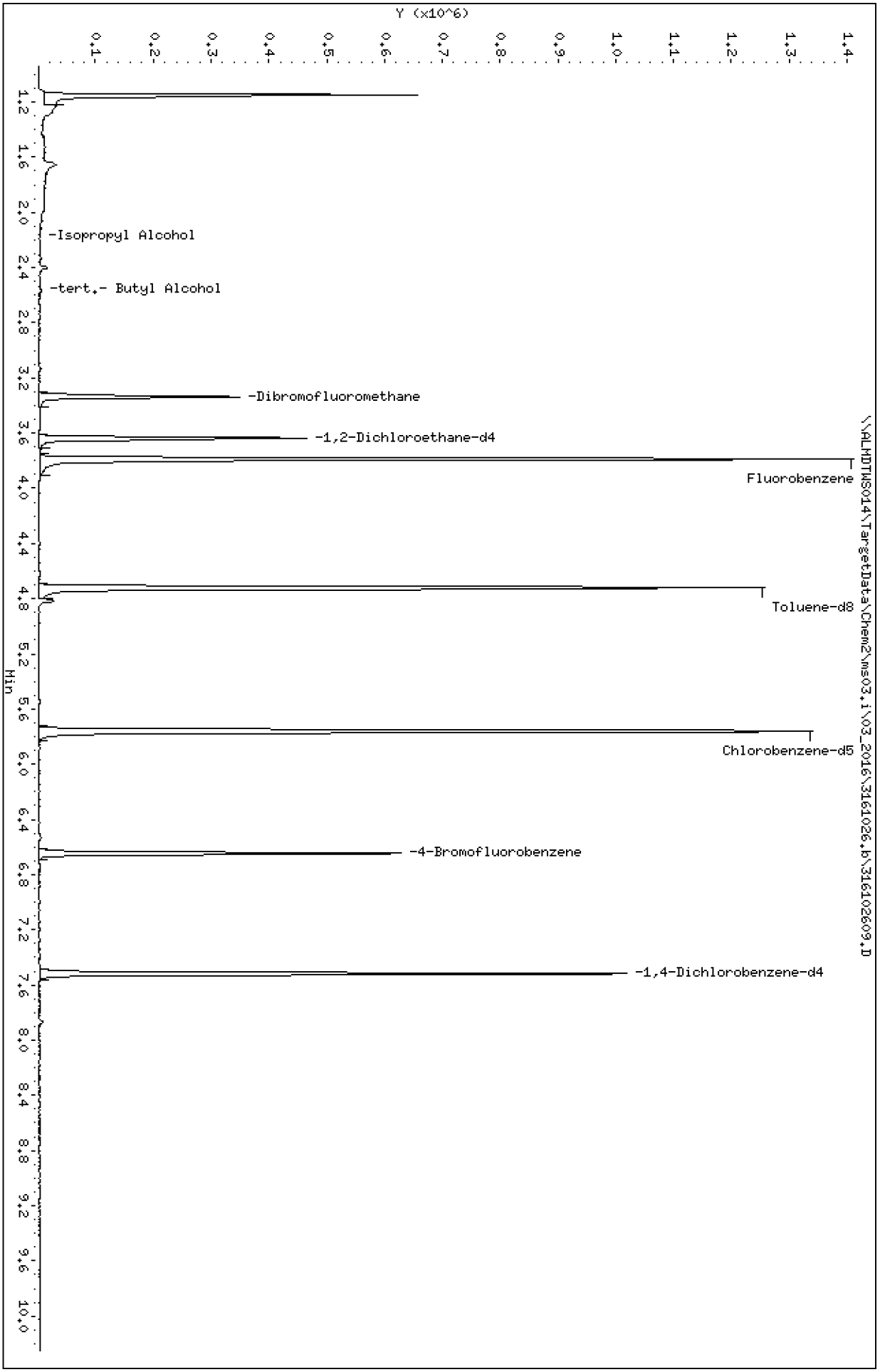
Client Name: Parsons - Boston MA
Lab Smp Id: 2184164004
Operator : DD
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 26-OCT-2016 12:23

Client SDG: PQF049|FTMM PARCEL
Client Smp ID: EB-20161021
Sample Date: 21-OCT-2016
Sample Point:
Date Received:21-OCT-2016 00:00
Level: LOW

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	1.150	11.0809	J


Y (x10^6)
Min
-Isopropyl Alcohol
-tert,- Butyl Alcohol
-Dibromofluoromethane
-1,2-Dichloroethane-d4
Fluorobenzene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4-Dichlorobenzene-d4
\\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3161026609.D
Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3161026609.D
Date : 26-OCT-2016 12:23
Client ID: EB-20161021
Sample Info: 2184164004;;1;;;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: DD
Column diameter: 0.25
Page 8

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102609.D Page 9

Date : 26-OCT-2016 12:23

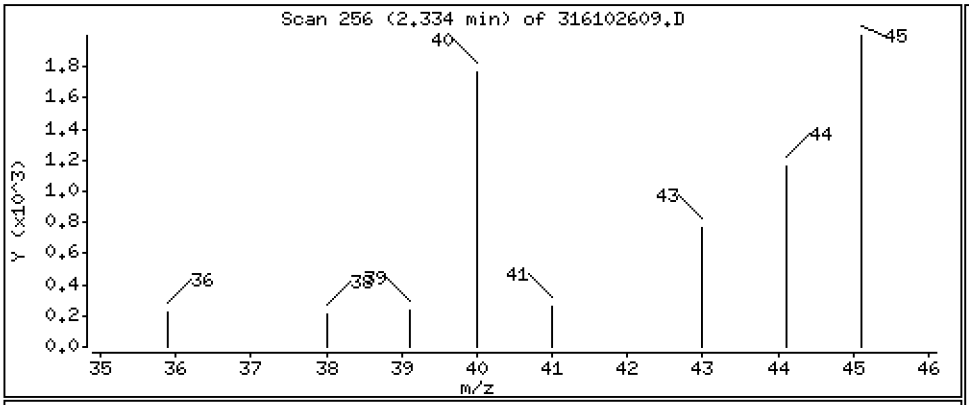
Client ID: EB-20161021 Instrument: ms03.i

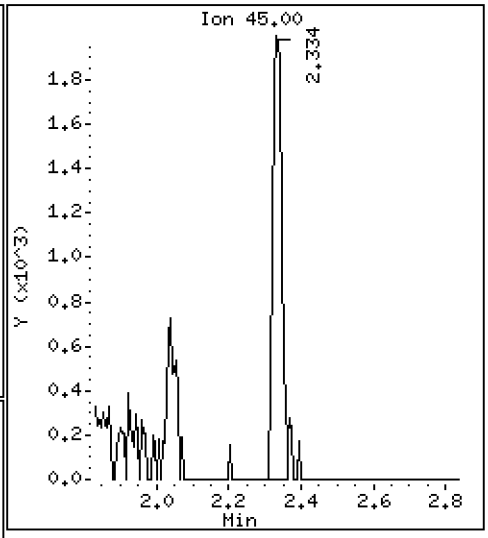
Sample Info: 2184164004;;1;;;;;

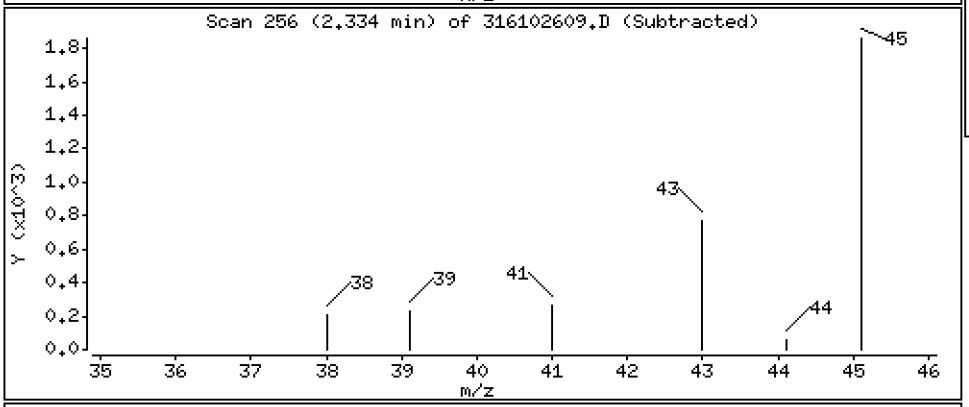
Purge Volume: 5.0 Operator: DD

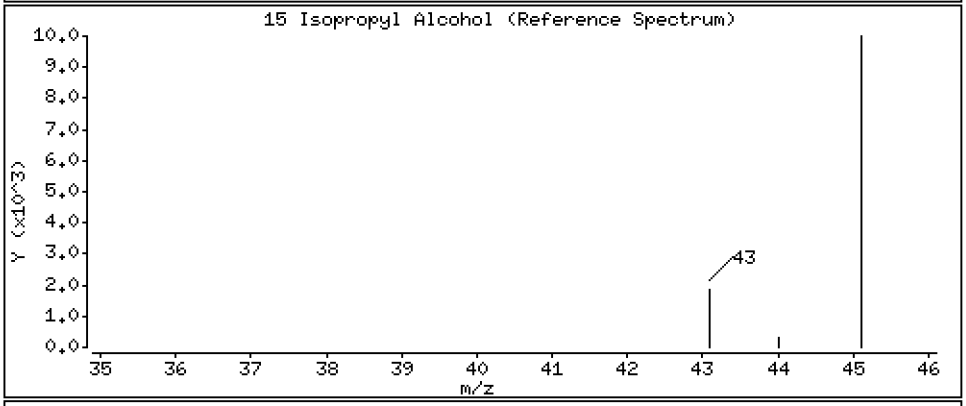
Column phase: DB-VRX Column diameter: 0.25

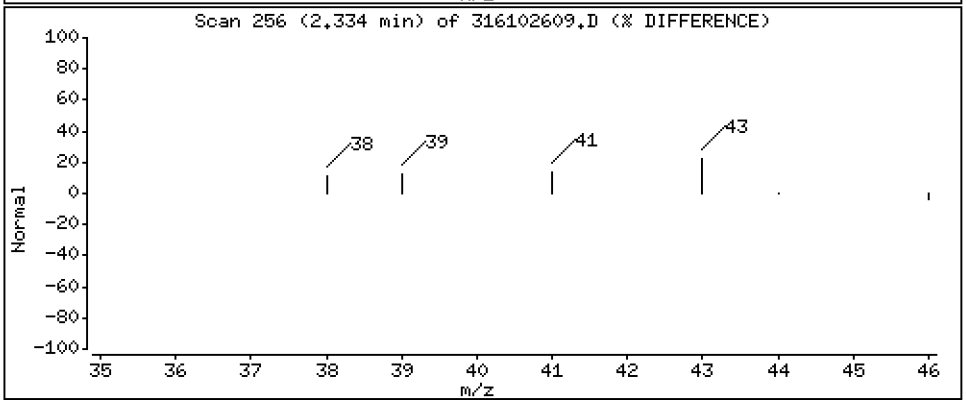
15 Isopropyl Alcohol Concentration: 12.8120 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102609.D Page 10

Date : 26-OCT-2016 12:23

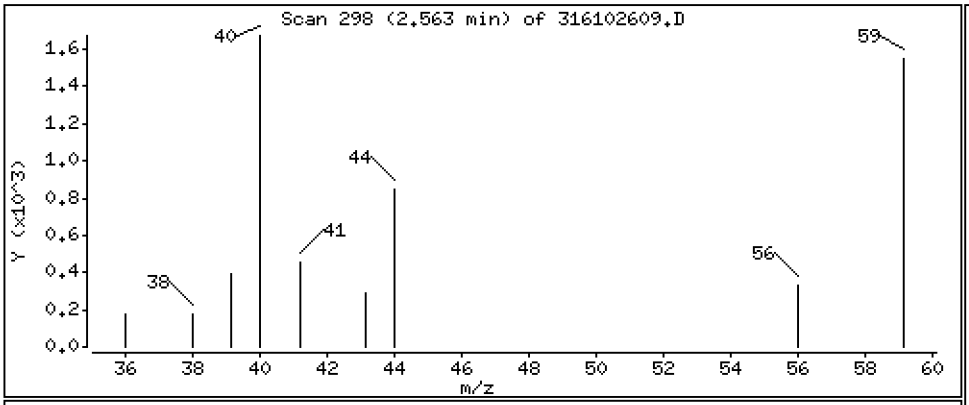
Client ID: EB-20161021 Instrument: ms03.i

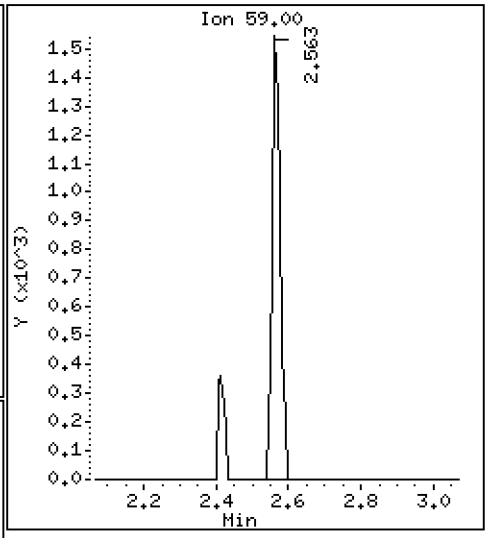
Sample Info: 2184164004;;1;;;;;

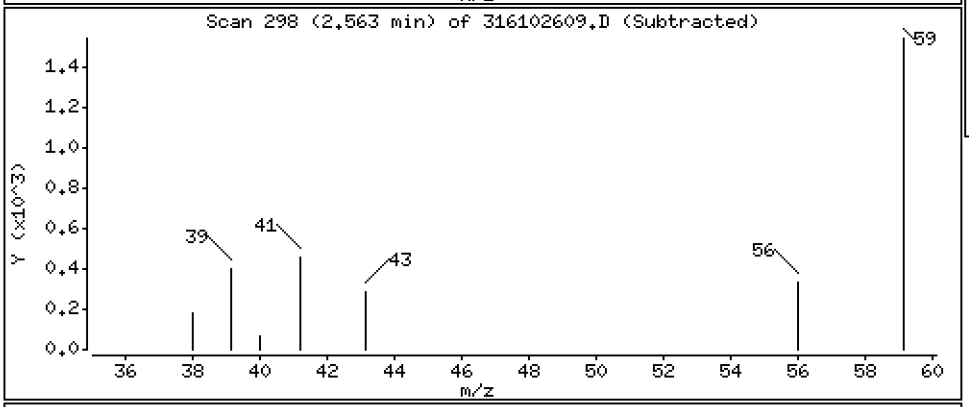
Purge Volume: 5.0 Operator: DD

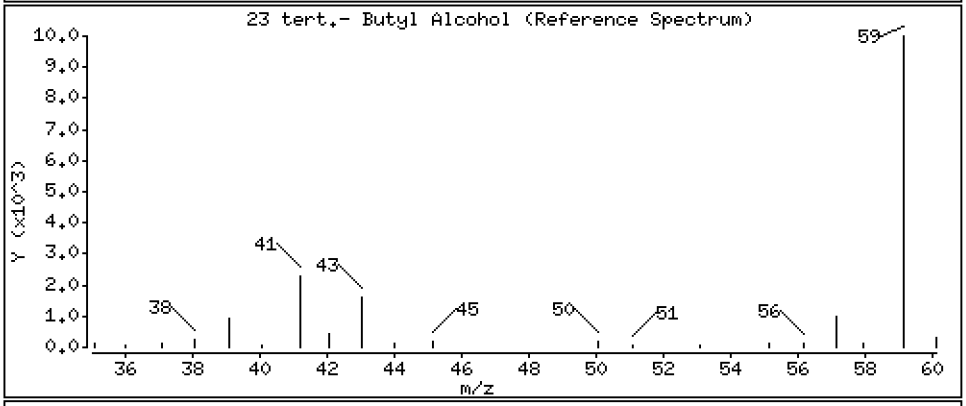
Column phase: DB-VRX Column diameter: 0.25

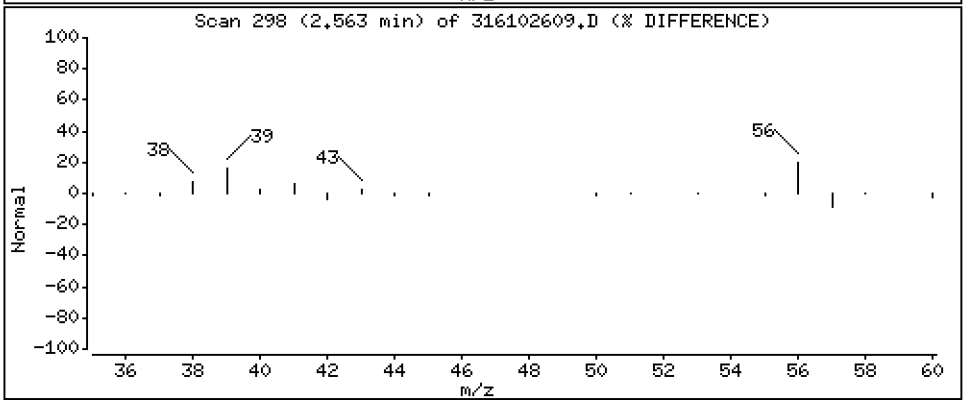
23 tert.- Butyl Alcohol Concentration: 5.06995 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102609.D Page 11

Date : 26-OCT-2016 12:23

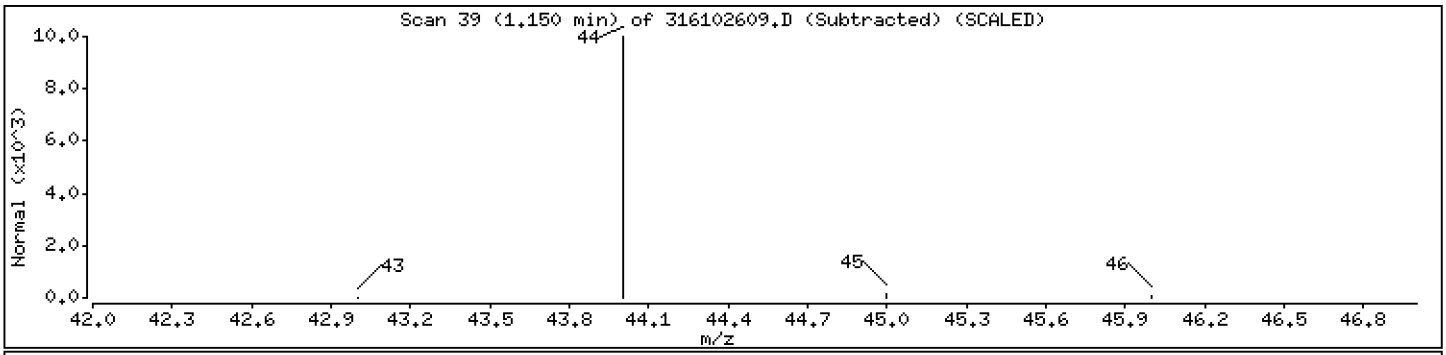
Client ID: EB-20161021 Instrument: ms03.i

Sample Info: 2184164004;;1;;;;;

Purge Volume: 5.0 Operator: DD

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



MANUAL INTEGRATION REPORT

Report Date: 10/27/2016 11:30
Lab Sample ID: 2184164004 Client ID: EB-20161021
DataFile:/Chem2/ms03.i/03_2016/3161026.b/316102609.D
RawFile:/Chem2/ms03.i/03_2016/3161026.b/RawData/316102609.D
Injection Date: 26-OCT-2016 12:23 Operator: DD
There were no manual integrations performed on this sample!

UNASSIGNED PEAK REPORT

Report Date: 10/27/2016 11:30
Lab Sample ID: 2184164004 Client ID: EB-20161021
DataFile:/Chem2/ms03.i/03_2016/3161026.b/316102609.D
RawFile:/Chem2/ms03.i/03_2016/3161026.b/RawData/316102609.D
Injection Date: 26-OCT-2016 12:23 Operator: DD
The following compounds were Unassigned:

Chloromethane
Bromomethane
Iodomethane
Methylene Chloride
Heptane
Methacrylonitrile
1,2-Dichloroethane
1,4-Dioxane
Chloroacetonitrile
2-Nitropropane
1,3-Dichloropropane

Standards Raw Data

Initial Calibrations

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Global **SDG No.:** PQF-049

Instrument ID: ms03.i **Calibration Date(s):** 10/24/2016 10/25/2016

Heated Purge: (Y/N) N **Calibration Time(s):** 23:25 01:36

GC Column: RTXVRX **ID:** 0.25 (mm)

LAB FILE ID: RRF001 = 316102454.D RRF005 = 316102455.D RRF020 = 316102456.D RRF050 = 316102457.D
RRF100 = 316102458.D RRF200 = 316102459.D RRF00.5 = 316102453.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	CT
Acetone	0.02175	0.01965	0.01786	0.01862	0.01750	A
Acrolein	0.03705	0.03364	0.03339	0.03536	0.03547	A
Acrylonitrile	0.09628	0.08432	0.08254	0.08489	0.08486	A
Acetonitrile	4684	19368	72658	191016	378852	L
tert-Amyl Ethylether	0.47023	0.46718	0.48751	0.52438	0.55478	A
tert-Amyl methyl ether	0.53820	0.55398	0.55044	0.57646	0.59854	A
tert-Amyl Alcohol	1537	7326	31783	98439	213389	Q
Benzene	1.16651	1.11359	1.07153	1.02387	1.02033	A
Benzyl Chloride	644	3988	20954	75313	193855	Q
Bromobenzene	0.81241	0.76139	0.72397	0.68847	0.70420	A
Bromochloromethane	0.11393	0.09891	0.09904	0.09924	0.10251	A
Bromodichloromethane	0.24934	0.24945	0.26246	0.28238	0.29246	A
Bromoform *	1802	8896	42057	129434	304730	Q
Bromomethane	6707	20074	85332	214551	611189	Q
2-Butanone	0.02865	0.02920	0.02536	0.02873	0.02782	A
tert.- Butyl Alcohol	0.01234	0.01401	0.01164	0.01363	0.01416	A
tert-Butylbenzene	0.60924	0.61349	0.60415	0.55240	0.57375	A
n-Butylbenzene	0.51675	0.49271	0.54432	0.51873	0.55586	A
sec-Butylbenzene	3.23657	3.32780	3.40309	3.06982	3.18629	A
Carbon Disulfide	0.66525	0.58848	0.60135	0.60903	0.64594	A
Carbon Tetrachloride	0.24373	0.24850	0.24537	0.23630	0.24914	A
Chloroacetonitrile	518	3588	15902	48185	102739	Q
Chlorobenzene *	1.62281	1.49311	1.38610	1.33471	1.34965	A
1-Chlorobutane	10859	49665	189319	439659	920244	L
Chlorodibromomethane	0.31089	0.32819	0.36660	0.40005	0.42623	A
Chloroethane	17520	40365	156148	377249	805220	L
2-Chloroethylvinyl ether	2558	13233	68190	204686	453946	L
Chloroform **	23400	82953	304866	740177	1540194	Q
1-Chlorohexane	0.66649	0.69151	0.71264	0.66456	0.74299	A
Chloromethane *	24946	59314	229405	548264	1151305	Q
Chloroprene	0.36057	0.35214	0.36235	0.34710	0.35193	A
3-Chloro-1-propene	0.32823	0.30573	0.32380	0.31600	0.31394	A
o-Chlorotoluene	2.82264	2.96579	2.83081	2.63576	2.68191	A
p-Chlorotoluene	2.64512	2.66736	2.56792	2.41348	2.46647	A

CT Column contains the Calibration Type. A - Average Response Factor, L - Linear Regression, and Q - Quadratic.
SPCC Compounds (*) with required minimum RRF.
CCC Compounds (**) with required maximum %RSD.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Global **SDG No.:** PQF-049

Instrument ID: ms03.i **Calibration Date(s):** 10/24/2016 10/25/2016

Heated Purge: (Y/N) N **Calibration Time(s):** 23:25 01:36

GC Column: RTXVRX **ID:** 0.25 (mm)

LAB FILE ID: RRF001 = 316102454.D RRF005 = 316102455.D RRF020 = 316102456.D RRF050 = 316102457.D
RRF100 = 316102458.D RRF200 = 316102459.D RRF00.5 = 316102453.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	CT
Cyclohexane	0.43347	0.40248	0.38714	0.33740	0.35168	A
1,2-Dibromo-3-Chloropropane	553	3186	13909	43484	99214	Q
1,2-Dibromoethane	0.39514	0.39016	0.40537	0.40840	0.41291	A
Dibromomethane	0.12849	0.13037	0.12525	0.12836	0.13125	A
trans-1,4-Dichloro-2-butene	0.20121	0.19251	0.21594	0.22249	0.22799	A
1,2-Dichlorobenzene	10357	48183	190161	502959	1116181	Q
1,3-Dichlorobenzene	11834	56398	216121	551580	1242422	Q
1,4-Dichlorobenzene	12384	56880	217075	561432	1262196	Q
Dichlorodifluoromethane	28161	66929	256203	604509	1285315	Q
1,1-Dichloroethane *	0.52416	0.49600	0.46874	0.44966	0.44447	A
1,2-Dichloroethene, Total	0.39880	0.36906	0.35314	0.34062	0.34394	A
1,2-Dichloroethane	0.34720	0.32602	0.30668	0.30697	0.30445	A
1,1-Dichloroethene **	0.41487	0.37711	0.36211	0.34380	0.34573	A
cis-1,2-Dichloroethene	0.39580	0.36876	0.35244	0.34636	0.34514	A
trans-1,2-Dichloroethene	0.40181	0.36935	0.35384	0.33487	0.34274	A
Dichlorofluoromethane	0.61607	0.55624	0.51985	0.49175	0.49394	A
1,1-Dichloro-2-Propanone	298	2477	12224	36699	79599	Q
2,2-Dichloropropane	10360	47659	191410	485464	1064710	Q
1,3-Dichloropropane	0.94944	0.89018	0.84722	0.85592	0.83916	A
1,2-Dichloropropane **	0.27951	0.26524	0.26198	0.26349	0.26598	A
1,1-Dichloropropene	0.36909	0.36627	0.35150	0.32433	0.32723	A
cis-1,3-Dichloropropene	0.68326	0.70851	0.80078	0.86298	0.90630	A
trans-1,3-Dichloropropene	0.57047	0.63857	0.70183	0.75831	0.78936	A
1,3-Dichloropropene, Total	0.62687	0.67354	0.75131	0.81065	0.84783	A
Diisobutylene	60082	134530	469197	1002264	2188173	L
Diisopropyl ether	0.82228	0.79721	0.81459	0.84926	0.85000	A
1,4-Dioxane	0.00085	0.00094	0.00081	0.00099	0.00093	A
Ethyl Acetate	0.19137	0.19875	0.19660	0.22133	0.21670	A
Ethyl ether	0.20072	0.18158	0.16779	0.17322	0.16750	A
Ethyl Methacrylate	0.51692	0.55725	0.65091	0.70882	0.72371	A
Ethyl tert-butyl ether	0.67000	0.65363	0.68317	0.72985	0.75071	A
Ethylbenzene **	0.85964	0.82780	0.77321	0.73304	0.75107	A
Freon 113	0.25658	0.22412	0.20915	0.18165	0.18439	A
Heptane	0.17303	0.14977	0.17321	0.14398	0.15622	A

CT Column contains the Calibration Type. A - Average Response Factor, L - Linear Regression, and Q - Quadratic.
SPCC Compounds (*) with required minimum RRF.
CCC Compounds (**) with required maximum %RSD.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Global **SDG No.:** PQF-049

Instrument ID: ms03.i **Calibration Date(s):** 10/24/2016 10/25/2016

Heated Purge: (Y/N) N **Calibration Time(s):** 23:25 01:36

GC Column: RTXVRX **ID:** 0.25 (mm)

LAB FILE ID: RRF001 = 316102454.D RRF005 = 316102455.D RRF020 = 316102456.D RRF050 = 316102457.D
RRF100 = 316102458.D RRF200 = 316102459.D RRF00.5 = 316102453.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	CT
Hexachlorobutadiene	2803	9195	36231	91411	208989	Q
Hexachloroethane	0.38567	0.32974	0.33979	0.35532	0.40133	A
Hexane	0.56583	0.48930	0.52534	0.47313	0.48403	A
2-Hexanone	0.26549	0.27769	0.31515	0.34833	0.34148	A
Iodomethane	565	2578	19592	87895	235374	Q
Isobutyl alcohol	1844	8432	36016	105297	217197	Q
Isopropyl Alcohol	1714	6543	26915	71076	143587	L
Isopropylbenzene	3.62943	3.67994	3.62774	3.35092	3.42308	A
p-Isopropyltoluene	0.57719	0.60158	0.65129	0.61392	0.64755	A
Methyl acetate	0.04320	0.03815	0.03662	0.03846	0.03700	A
Methyl acrylate	0.20139	0.19205	0.20068	0.20771	0.20894	A
Methacrylonitrile	0.10169	0.09497	0.09580	0.09803	0.09587	A
Methyl cyclohexane	1.09975	0.97861	0.97804	0.83883	0.87973	A
Methyl methacrylate	0.16706	0.16259	0.17357	0.19853	0.20623	A
Methyl t-Butyl Ether	0.65173	0.59342	0.60228	0.63117	0.63432	A
4-Methyl-2-Pentanone(MIBK)	0.41184	0.46985	0.50385	0.53585	0.51909	A
Methylene Chloride	15500	49321	168953	411186	852055	Q
Naphthalene	3065	16327	101494	415226	995682	Q
Nitrobenzene		308	3117	19403	61429	L
2-Nitropropane	5124	24191	122115	396365	894738	Q
Octane	3273	15009	71922	161179	378288	L
Pentachloroethane	0.51243	0.47196	0.48253	0.47924	0.50187	A
Pentane	8829	40716	149216	326250	688898	L
n-Propanol	6529	28174	107988	270517	551945	L
Propionitrile	0.03441	0.03184	0.03115	0.03209	0.03071	A
n-Propylbenzene	0.92335	0.91780	0.93764	0.86157	0.88763	A
Styrene	2.09513	2.21890	2.26663	2.20601	2.25093	A
1,1,1,2-Tetrachloroethane	0.38204	0.39121	0.39199	0.39695	0.40968	A
1,1,2,2-Tetrachloroethane *	0.93957	0.87048	0.84649	0.83460	0.80913	A
Tetrachloroethene	6184	29126	106945	254146	546355	Q
Tetrahydrofuran	0.06718	0.06391	0.06298	0.06765	0.06541	A
Toluene **	1.47377	1.44639	1.42104	1.35212	1.34475	A
Total Xylenes	0.88263	0.91221	0.89232	0.87022	0.89702	A
1,2,3-Trichlorobenzene	0.29134	0.24171	0.27642	0.32091	0.32381	A

CT Column contains the Calibration Type. A - Average Response Factor, L - Linear Regression, and Q - Quadratic.
SPCC Compounds (*) with required minimum RRF.
CCC Compounds (**) with required maximum %RSD.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Global **SDG No.:** PQF-049

Instrument ID: ms03.i **Calibration Date(s):** 10/24/2016 10/25/2016

Heated Purge: (Y/N) N **Calibration Time(s):** 23:25 01:36

GC Column: RTXVRX **ID:** 0.25 (mm)

LAB FILE ID: RRF001 = 316102454.D RRF005 = 316102455.D RRF020 = 316102456.D RRF050 = 316102457.D
RRF100 = 316102458.D RRF200 = 316102459.D RRF00.5 = 316102453.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	CT
1,2,4-Trichlorobenzene	3676	15391	71562	216240	498925	Q
1,1,1-Trichloroethane	0.33801	0.33512	0.33447	0.31667	0.33190	A
1,1,2-Trichloroethane	0.44412	0.42456	0.40261	0.39604	0.38773	A
Trichloroethene	0.29045	0.25021	0.24506	0.22935	0.23524	A
Trichlorofluoromethane	32639	72659	282650	661336	1412223	L
1,2,3-Trichloropropane	0.31424	0.25793	0.25297	0.24268	0.23428	A
1,2,4-Trimethylbenzene	2.31518	2.70432	2.73151	2.56411	2.62840	A
1,3,5-Trimethylbenzene	2.41304	2.70472	2.78247	2.57745	2.63397	A
Vinyl Acetate	1086	6734	30464	84581	183691	L
Vinyl Chloride **	27881	65599	262777	622872	1323102	L
o-Xylene	0.78160	0.82160	0.82456	0.82972	0.86575	A
mp-Xylene	0.93315	0.95752	0.92621	0.89048	0.91265	A
4-Bromofluorobenzene	5671	23610	103913	273260	622168	L
Dibromofluoromethane	0.20636	0.18588	0.18488	0.18474	0.18984	A
1,2-Dichloroethane-d4	10444	42642	156092	432919	842996	L
Toluene-d8	29934	122700	521206	1337772	2897024	Q

CT Column contains the Calibration Type. A - Average Response Factor, L - Linear Regression, and Q - Quadratic.
SPCC Compounds (*) with required minimum RRF.
CCC Compounds (**) with required maximum %RSD.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Global SDG No.: PQF-049

Instrument ID: ms03.i Calibration Date(s): 10/24/2016 10/25/2016

Heated Purge: (Y/N) N Calibration Time(s): 23:25 01:36

GC Column: RTXVRX ID: 0.25 (mm)

LAB FILE ID: RRF001 = 316102454.D RRF005 = 316102455.D RRF020 = 316102456.D RRF050 = 316102457.D
RRF100 = 316102458.D RRF200 = 316102459.D RRF00.5 = 316102453.D

COMPOUND	RRF200	RRF00.5		CT	b	m1	m2	% RSD or R^2
Acetone	0.01725	0.02488		A		0.019640		14.15947
Acrolein	0.03621	0.03788		A		0.035570		4.65502
Acrylonitrile	0.08437	0.09030		A		0.086790		5.56184
Acetonitrile	765676	3235		L	0.000000	48.464882		0.99852
tert-Amyl Ethylether	0.57614	0.47698		A		0.508170		8.64268
tert-Amyl methyl ether	0.62233	0.55348		A		0.570490		5.31497
tert-Amyl Alcohol	520760	781		Q	0.000000	0.010370	0.000100	0.99985
Benzene	1.02168	1.26599		A		1.097640		8.41680
Benzyl Chloride	482251			Q	0.000000	0.153680	0.010980	0.99952
Bromobenzene	0.71012	0.93455		A		0.762160		11.38798
Bromochloromethane	0.09741	0.10564		A		0.102380		5.66360
Bromodichloromethane	0.30324	0.26109		A		0.271490		7.86025
Bromoform *	708243	833		Q	0.000000	0.274110	0.008810	0.99987
Bromomethane	1481026	3402		Q	-0.004250	0.133600	0.009630	0.99866
2-Butanone	0.02873	0.03063		A		0.028450		5.64286
tert.- Butyl Alcohol	0.01484	0.01511		A		0.013680		9.27295
tert-Butylbenzene	0.57439	0.69225		A		0.602810		7.52628
n-Butylbenzene	0.55878	0.72221		A		0.558480		13.60947
sec-Butylbenzene	3.10322	3.97372		A		3.328640		9.24512
Carbon Disulfide	0.65249	0.76142		A		0.646280		9.02288
Carbon Tetrachloride	0.26417	0.27916		A		0.252340		5.75303
Chloroacetonitrile				Q	0.000000	0.012670	0.000040	0.99932
Chlorobenzene *	1.39853	1.91050		A		1.499340		13.79897
1-Chlorobutane	1936940	6277		L	0.000000	3.878960		0.99976
Chlorodibromomethane	0.45463	0.32883		A		0.373630		14.69287
Chloroethane	1695539	5375		L	0.000000	4.438020		0.99987
2-Chloroethylvinyl ether	1004011	1173		L	0.000000	7.612020		0.99848
Chloroform **	3259733	16877		Q	0.013340	0.430610	-0.000030	0.99998
1-Chlorohexane	0.77956	0.84430		A		0.728860		8.99338
Chloromethane *	2361293	8143		Q	0.008550	0.328630	-0.002480	0.99994
Chloroprene	0.35630	0.41126		A		0.363090		6.02754
3-Chloro-1-propene	0.27816	0.34351		A		0.315620		6.47752
o-Chlorotoluene	2.63313	3.41304		A		2.854730		9.62066
p-Chlorotoluene	2.40123	3.04360		A		2.600740		8.54771
Cyclohexane	0.37204	0.48387		A		0.395440		12.73453
1,2-Dibromo-3-Chloropropane	236845	216		Q	0.000000	0.088690	0.003380	0.99995

CT Column contains the Calibration Type. A - Average Response Factor, L - Linear Regression, and Q - Quadratic.
SPCC Compounds (*) with required minimum RRF.
CCC Compounds (**) with required maximum %RSD.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Global SDG No.: PQF-049

Instrument ID: ms03.i Calibration Date(s): 10/24/2016 10/25/2016

Heated Purge: (Y/N) N Calibration Time(s): 23:25 01:36

GC Column: RTXVRX ID: 0.25 (mm)

LAB FILE ID: RRF001 = 316102454.D RRF005 = 316102455.D RRF020 = 316102456.D RRF050 = 316102457.D
RRF100 = 316102458.D RRF200 = 316102459.D RRF00.5 = 316102453.D

COMPOUND	RRF200	RRF00.5		CT	b	m1	m2	% RSD or R^2
1,2-Dibromoethane	0.42270	0.45800		A		0.413240		5.44563
Dibromomethane	0.13285	0.15694		A		0.133360		8.00683
trans-1,4-Dichloro-2-butene	0.22733	0.18628		A		0.210540		8.13222
1,2-Dichlorobenzene	2391672	6488		Q	0.000000	1.120670	0.000350	0.99996
1,3-Dichlorobenzene	2646613	6991		Q	0.000000	1.247110	-0.000630	0.99988
1,4-Dichlorobenzene	2747083	8390		Q	0.000000	1.247580	0.006330	0.99993
Dichlorodifluoromethane	2684578	8466		Q	0.000000	0.367020	-0.001630	0.99990
1,1-Dichloroethane *	0.44346	0.52936		A		0.479410		7.75112
1,2-Dichloroethene, Total	0.34153	0.42976		A		0.368120		9.28810
1,2-Dichloroethane	0.30039	0.38385		A		0.325080		9.43608
1,1-Dichloroethene **	0.34459	0.46376		A		0.378850		11.94550
cis-1,2-Dichloroethene	0.34309	0.42449		A		0.368010		8.46154
trans-1,2-Dichloroethene	0.33996	0.43503		A		0.368230		10.13634
Dichlorofluoromethane	0.48631	0.67145		A		0.547940		13.03919
1,1-Dichloro-2-Propanone	183114			Q	0.000000	0.009380	0.000060	0.99987
2,2-Dichloropropane	2334464	5612		Q	0.000000	0.286490	0.003500	0.99997
1,3-Dichloropropane	0.84761	1.04664		A		0.896600		8.53527
1,2-Dichloropropane **	0.26411	0.28790		A		0.269750		3.67818
1,1-Dichloropropene	0.33333	0.41695		A		0.355530		9.15436
cis-1,3-Dichloropropene	0.94273	0.76239		A		0.809560		12.18760
trans-1,3-Dichloropropene	0.81697	0.64863		A		0.703450		12.73811
1,3-Dichloropropene, Total	0.87985	0.70551		A		0.756510		12.40029
Diisobutylene	4638559	49615		L	0.000000	1.624990		0.99923
Diisopropyl ether	0.83314	0.85575		A		0.831750		2.59469
1,4-Dioxane		0.00085		A		0.000900		7.83899
Ethyl Acetate	0.22058	0.22906		A		0.210630		6.98683
Ethyl ether	0.17703	0.20782		A		0.182240		8.76396
Ethyl Methacrylate	0.75133	0.60390		A		0.644690		13.78699
Ethyl tert-butyl ether	0.75710	0.69761		A		0.706010		5.72714
Ethylbenzene **	0.78554	1.00235		A		0.818950		11.20990
Freon 113	0.18755	0.25223		A		0.213670		14.82713
Heptane	0.15521	0.18399		A		0.162200		9.02126
Hexachlorobutadiene	443687	2655		Q	0.000000	0.208850	-0.000060	0.99978
Hexachloroethane	0.41499	0.48590		A		0.387530		13.84879
Hexane	0.47428	0.61836		A		0.518610		10.65279
2-Hexanone	0.34738	0.28896		A		0.312070		11.19437

CT Column contains the Calibration Type. A - Average Response Factor, L - Linear Regression, and Q - Quadratic.
SPCC Compounds (*) with required minimum RRF.
CCC Compounds (**) with required maximum %RSD.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Global SDG No.: PQF-049

Instrument ID: ms03.i Calibration Date(s): 10/24/2016 10/25/2016

Heated Purge: (Y/N) N Calibration Time(s): 23:25 01:36

GC Column: RTXVRX ID: 0.25 (mm)

LAB FILE ID: RRF001 = 316102454.D RRF005 = 316102455.D RRF020 = 316102456.D RRF050 = 316102457.D
RRF100 = 316102458.D RRF200 = 316102459.D RRF00.5 = 316102453.D

COMPOUND	RRF200	RRF00.5		CT	b	m1	m2	% RSD or R^2
Iodomethane	494749	149		Q	-0.008140	0.062360	0.000730	0.99642
Isobutyl alcohol	619279	763		Q	0.000000	0.004640	0.000050	0.99898
Isopropyl Alcohol	304769	1235		L	0.000000	123		0.99987
Isopropylbenzene	3.38168	4.35645		A		3.635610		9.47768
p-Isopropyltoluene	0.65174	0.69616		A		0.634200		6.22181
Methyl acetate	0.03753	0.04190		A		0.038980		6.52893
Methyl acrylate	0.21318	0.20602		A		0.204280		3.38279
Methacrylonitrile	0.09972	0.11349		A		0.099940		6.44028
Methyl cyclohexane	0.94233	1.25387		A		0.995880		14.14034
Methyl methacrylate	0.20827	0.18495		A		0.185890		10.12387
Methyl t-Butyl Ether	0.64529	0.69007		A		0.635470		5.07149
4-Methyl-2-Pentanone(MIBK)	0.52658	0.48173		A		0.492680		8.69497
Methylene Chloride	1758964	11376		Q	0.008850	0.241960	-0.001490	0.99999
Naphthalene	2491026	2136		Q	0.000000	0.809020	0.054310	0.99950
Nitrobenzene	292262			L	7.949910	70.691483		0.92908
2-Nitropropane		2513		Q	0.000000	0.096600	0.001170	0.99918
Octane	787585	2518		L	0.000000	4.112440		0.99940
Pentachloroethane	0.50311	0.56172		A		0.501840		6.02006
Pentane	1462656	5345		L	0.000000	5.147300		0.99955
n-Propanol	1096313	3817		L	0.000000	67.482872		0.99813
Propionitrile	0.03091	0.03624		A		0.032480		6.37903
n-Propylbenzene	0.89435	1.01297		A		0.919330		5.27062
Styrene	2.21398	2.32321		A		2.224970		3.14802
1,1,1,2-Tetrachloroethane	0.42531	0.35861		A		0.393680		5.32972
1,1,2,2-Tetrachloroethane *	0.79426	1.07706		A		0.881660		11.15278
Tetrachloroethene	1230785	3835		Q	0.000000	0.337520	0.006440	0.99978
Tetrahydrofuran	0.06685	0.07319		A		0.066740		4.99108
Toluene **	1.36813	1.59766		A		1.429120		6.22783
Total Xylenes	0.93239	1.05257		A		0.919910		6.72402
1,2,3-Trichlorobenzene	0.35942	0.36710		A		0.311530		14.43604
1,2,4-Trichlorobenzene	1132094	2431		Q	0.000000	0.463680	0.010240	0.99989
1,1,1-Trichloroethane	0.33381	0.36428		A		0.336320		4.20703
1,1,2-Trichloroethane	0.38725	0.46585		A		0.415450		7.32080
Trichloroethene	0.24581	0.33285		A		0.261280		14.23143
Trichlorofluoromethane	3126719	9331		L	0.000000	2.435290		0.99930
1,2,3-Trichloropropane	0.23084	0.30144		A		0.262050		12.55504

CT Column contains the Calibration Type. A - Average Response Factor, L - Linear Regression, and Q - Quadratic.
SPCC Compounds (*) with required minimum RRF.
CCC Compounds (**) with required maximum %RSD.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ALS Global **SDG No.:** PQF-049

Instrument ID: ms03.i **Calibration Date(s):** 10/24/2016 10/25/2016

Heated Purge: (Y/N) N **Calibration Time(s):** 23:25 01:36

GC Column: RTXVRX **ID:** 0.25 (mm)

LAB FILE ID: RRF001 = 316102454.D RRF005 = 316102455.D RRF020 = 316102456.D RRF050 = 316102457.D
RRF100 = 316102458.D RRF200 = 316102459.D RRF00.5 = 316102453.D

COMPOUND	RRF200	RRF00.5		CT	b	m1	m2	% RSD or R^2
1,2,4-Trimethylbenzene	2.57603	2.70021		A		2.602820		5.47750
1,3,5-Trimethylbenzene	2.58735	2.93522		A		2.662030		6.25730
Vinyl Acetate	398460	561		L	0.000000	19.061331		0.99952
Vinyl Chloride **	2731229	8644		L	0.000000	2.740460		0.99961
o-Xylene	0.88637	0.92962		A		0.848460		5.78158
mp-Xylene	0.95540	1.11404		A		0.955630		7.70860
4-Bromofluorobenzene	1321853	3635		L	0.000000	1.610530		0.99986
Dibromofluoromethane		0.23517		A		0.197810		10.14325
1,2-Dichloroethane-d4	1759427	6073		L	0.000000	4.249880		0.99925
Toluene-d8	6159407	17071		Q	0.000000	1.845010	0.009240	0.99999

CT Column contains the Calibration Type. A - Average Response Factor, L - Linear Regression, and Q - Quadratic.
SPCC Compounds (*) with required minimum RRF.
CCC Compounds (**) with required maximum %RSD.

Report Date : 25-Oct-2016 07:09 Page 1

ALS Environmental Services

INITIAL CALIBRATION DATA

Prior to application of curve fits

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Calibration File Names:
Level 1: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D
Level 2: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D
Level 3: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D
Level 4: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D
Level 5: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D
Level 6: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D
Level 8: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
1 Dichlorodifluoromethane	0.86336	0.41583	0.39055	0.35799	0.36182	0.35618						
	0.50673						AVRG		0.46464		39.52204	<-
2 Chloromethane	0.76480	0.36852	0.34970	0.32468	0.32410	0.31329						
	0.48740						AVRG		0.41893		39.06322	<-
3 Vinyl Chloride	0.85478	0.40757	0.40058	0.36887	0.37246	0.36237						
	0.51739						AVRG		0.46914		37.96483	<-
4 Bromomethane	0.19379	0.12079	0.12815	0.13812	0.16995	0.19650						
	0.16921						AVRG		0.15950		19.30222	<-

Report Date : 25-Oct-2016 07:09 Page 2

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
5 Chloroethane	0.53713	0.25079	0.23803	0.22341	0.22667	0.22496						
	0.32172						AVRG		0.28896		39.70648	<-
6 Pentane	0.27068	0.25297	0.22746	0.19321	0.19393	0.19406						
	0.31992						AVRG		0.23603		20.44122	<-
7 Trichlorofluoromethane	1.00065	0.45144	0.43087	0.39165	0.39755	0.41484						
	0.55851						AVRG		0.52079		42.04529	<-
8 Dichlorofluoromethane	0.61607	0.55624	0.51985	0.49175	0.49394	0.48631						
	0.67145						AVRG		0.54794		13.03919	
9 Ethyl Ether	0.20072	0.18158	0.16779	0.17322	0.16750	0.17703						
	0.20782						AVRG		0.18224		8.76396	
10 1,1-Dichloroethene	0.41487	0.37711	0.36211	0.34380	0.34573	0.34459						
	0.46376						AVRG		0.37885		11.94550	
11 Freon 113	0.25658	0.22412	0.20915	0.18165	0.18439	0.18755						
	0.25223						AVRG		0.21367		14.82713	

Report Date : 25-Oct-2016 07:09 Page 3

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
12 Carbon Disulfide	0.66525	0.58848	0.60135	0.60903	0.64594	0.65249						
	0.76142						AVRG		0.64628		9.02288	
13 Iodomethane	0.01732	0.01602	0.02987	0.04798	0.06015	0.06270						
	0.00892						AVRG		0.03471		63.85489	<-
14 Acrolein	0.03705	0.03364	0.03339	0.03536	0.03547	0.03621						
	0.03788						AVRG		0.03557		4.65502	
15 Isopropyl Alcohol	0.01051	0.00813	0.00729	0.00808	0.00788	0.00778						
	0.01478						AVRG		0.00921		28.97656	<-
16 3-Chloro-1-propene	0.32823	0.30573	0.32380	0.31600	0.31394	0.27816						
	0.34351						AVRG		0.31562		6.47752	
17 Methylene Chloride	0.47520	0.30643	0.25755	0.24351	0.23986	0.23337						
	0.68091						AVRG		0.34812		48.73111	<-
18 Acetone	0.02175	0.01965	0.01786	0.01862	0.01750	0.01725						
	0.02488						AVRG		0.01964		14.15947	

Report Date : 25-Oct-2016 07:09 Page 4

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
19 Methyl acetate	0.04320	0.03815	0.03662	0.03846	0.03700	0.03753						
	0.04190						AVRG		0.03898		6.52893	
20 trans-1,2-Dichloroethene	0.40181	0.36935	0.35384	0.33487	0.34274	0.33996						
	0.43503						AVRG		0.36823		10.13634	
21 Hexane	0.56583	0.48930	0.52534	0.47313	0.48403	0.47428						
	0.61836						AVRG		0.51861		10.65279	
22 Methyl t-Butyl Ether	0.65173	0.59342	0.60228	0.63117	0.63432	0.64529						
	0.69007						AVRG		0.63547		5.07149	
23 tert.- Butyl Alcohol	0.01234	0.01401	0.01164	0.01363	0.01416	0.01484						
	0.01511						AVRG		0.01368		9.27295	
24 Acetonitrile	0.02872	0.02407	0.02215	0.02262	0.02133	0.02032						
	0.03873						AVRG		0.02542		25.44665	<-
25 Diisopropyl ether	0.82228	0.79721	0.81459	0.84926	0.85000	0.83314						
	0.85575						AVRG		0.83175		2.59469	

Report Date : 25-Oct-2016 07:09 Page 5

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
26 Chloroprene	0.36057	0.35214	0.36235	0.34710	0.35193	0.35630						
	0.41126						AVRG		0.36309		6.02754	
27 1,1-Dichloroethane	0.52416	0.49600	0.46874	0.44966	0.44447	0.44346						
	0.52936						AVRG		0.47941		7.75112	
28 Acrylonitrile	0.09628	0.08432	0.08254	0.08489	0.08486	0.08437						
	0.09030						AVRG		0.08679		5.56184	
29 Ethyl tert-butyl ether	0.67000	0.65363	0.68317	0.72985	0.75071	0.75710						
	0.69761						AVRG		0.70601		5.72714	
30 n-Propanol	0.02002	0.01750	0.01646	0.01602	0.01554	0.01455						
	0.02285						AVRG		0.01756		16.55923	<-
31 Vinyl Acetate	0.03329	0.04184	0.04644	0.05009	0.05171	0.05287						
	0.03358						AVRG		0.04426		18.64261	<-
32 cis-1,2-Dichloroethene	0.39580	0.36876	0.35244	0.34636	0.34514	0.34309						
	0.42449						AVRG		0.36801		8.46154	

Report Date : 25-Oct-2016 07:09 Page 6

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
33 2,2-Dichloropropane	0.31762	0.29611	0.29178	0.28749	0.29972	0.30973						
	0.33591						AVRG		0.30548		5.54761	
34 Bromochloromethane	0.11393	0.09891	0.09904	0.09924	0.10251	0.09741						
	0.10564						AVRG		0.10238		5.66360	
35 Cyclohexane	0.43347	0.40248	0.38714	0.33740	0.35168	0.37204						
	0.48387						AVRG		0.39544		12.73453	
36 Chloroform	0.71740	0.51539	0.46474	0.43834	0.43357	0.43249						
	1.01017						AVRG		0.57316		37.98053	<-
37 Ethyl Acetate	0.19137	0.19875	0.19660	0.22133	0.21670	0.22058						
	0.22906						AVRG		0.21063		6.98683	
38 Methyl acrylate	0.20139	0.19205	0.20068	0.20771	0.20894	0.21318						
	0.20602						AVRG		0.20428		3.38279	
39 Carbon Tetrachloride	0.24373	0.24850	0.24537	0.23630	0.24914	0.26417						
	0.27916						AVRG		0.25234		5.75303	

Report Date : 25-Oct-2016 07:09 Page 7

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
40 Tetrahydrofuran	0.06718	0.06391	0.06298	0.06765	0.06541	0.06685						
	0.07319						AVRG		0.06674		4.99108	
42 1,1,1-Trichloroethane	0.33801	0.33512	0.33447	0.31667	0.33190	0.33381						
	0.36428						AVRG		0.33632		4.20703	
43 2-Butanone	0.02865	0.02920	0.02536	0.02873	0.02782	0.02873						
	0.03063						AVRG		0.02845		5.64286	
44 1,1-Dichloropropene	0.36909	0.36627	0.35150	0.32433	0.32723	0.33333						
	0.41695						AVRG		0.35553		9.15436	
45 1-Chlorobutane	0.33292	0.30857	0.28860	0.26037	0.25905	0.25699						
	0.37571						AVRG		0.29746		15.07912	<-
46 Heptane	0.17303	0.14977	0.17321	0.14398	0.15622	0.15521						
	0.18399						AVRG		0.16220		9.02126	
47 Benzene	1.16651	1.11359	1.07153	1.02387	1.02033	1.02168						
	1.26599						AVRG		1.09764		8.41680	

Report Date : 25-Oct-2016 07:09 Page 8

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
48 Propionitrile	0.03441	0.03184	0.03115	0.03209	0.03071	0.03091						
	0.03624						AVRG		0.03248		6.37903	
49 Methacrylonitrile	0.10169	0.09497	0.09580	0.09803	0.09587	0.09972						
	0.11349						AVRG		0.09994		6.44028	
50 tert-Amyl methyl ether	0.53820	0.55398	0.55044	0.57646	0.59854	0.62233						
	0.55348						AVRG		0.57049		5.31497	
52 1,2-Dichloroethane	0.34720	0.32602	0.30668	0.30697	0.30445	0.30039						
	0.38385						AVRG		0.32508		9.43608	
53 tert-Amyl Alcohol	0.00942	0.00910	0.00969	0.01166	0.01201	0.01382						
	0.00935						AVRG		0.01072		16.76483	<-
54 Isobutyl alcohol	0.00565	0.00524	0.00549	0.00624	0.00611	0.00822						
	0.00457						AVRG		0.00593		19.42118	<-
56 Diisobutylene	1.84200	0.83584	0.71524	0.59354	0.61598	0.61543						
	2.96970						AVRG		1.16968		77.69874	<-

Report Date : 25-Oct-2016 07:09 Page 9

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	0.5000000 Level 8										
57 Trichloroethene	0.29045	0.25021	0.24506	0.22935	0.23524	0.24581					
	0.33285						AVRG		0.26128		14.23143
58 Methyl cyclohexane	1.09975	0.97861	0.97804	0.83883	0.87973	0.94233					
	1.25387						AVRG		0.99588		14.14034
59 tert-Amyl Ethylether	0.47023	0.46718	0.48751	0.52438	0.55478	0.57614					
	0.47698						AVRG		0.50817		8.64268
60 Dibromomethane	0.12849	0.13037	0.12525	0.12836	0.13125	0.13285					
	0.15694						AVRG		0.13336		8.00683
61 1,2-Dichloropropane	0.27951	0.26524	0.26198	0.26349	0.26598	0.26411					
	0.28790						AVRG		0.26975		3.67818
62 Bromodichloromethane	0.24934	0.24945	0.26246	0.28238	0.29246	0.30324					
	0.26109						AVRG		0.27149		7.86025
63 Methyl methacrylate	0.16706	0.16259	0.17357	0.19853	0.20623	0.20827					
	0.18495						AVRG		0.18589		10.12387

Report Date : 25-Oct-2016 07:09 Page 10

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
64 1,4-Dioxane	0.00085	0.00094	0.00081	0.00099	0.00093	+++++						
	0.00085						AVRG		0.00090		7.83899	
65 2-Chloroethylvinyl ether	0.07842	0.08222	0.10395	0.12122	0.12779	0.13321						
	0.07021						AVRG		0.10243		25.10798	<-
66 cis-1,3-Dichloropropene	0.68326	0.70851	0.80078	0.86298	0.90630	0.94273						
	0.76239						AVRG		0.80956		12.18760	
67 Octane	0.24513	0.22356	0.26148	0.22341	0.24482	0.24381						
	0.37298						AVRG		0.25931		20.00254	<-
69 Toluene	1.47377	1.44639	1.42104	1.35212	1.34475	1.36813						
	1.59766						AVRG		1.42912		6.22783	
70 Chloroacetonitrile	0.00776	0.01069	0.01156	0.01336	0.01330	+++++						
	+++++						AVRG		0.01133		20.31531	<-
71 2-Nitropropane	0.07675	0.07206	0.08879	0.10988	0.11581	+++++						
	0.07445						AVRG		0.08962		21.17770	<-

Report Date : 25-Oct-2016 07:09 Page 11

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
72 1,1-Dichloro-2-Propanone	0.00446	0.00738	0.00797	0.01017	0.01030	0.01134						
	+++++						AVRG		0.00860		29.33683	<-
73 4-Methyl-2-Pentanone(MIBK)	0.41184	0.46985	0.50385	0.53585	0.51909	0.52658						
	0.48173						AVRG		0.49268		8.69497	
74 Tetrachloroethene	0.46315	0.43383	0.38881	0.35228	0.35360	0.38101						
	0.56805						AVRG		0.42010		18.29998	<-
75 trans-1,3-Dichloropropene	0.57047	0.63857	0.70183	0.75831	0.78936	0.81697						
	0.64863						AVRG		0.70345		12.73811	
76 Ethyl Methacrylate	0.51692	0.55725	0.65091	0.70882	0.72371	0.75133						
	0.60390						AVRG		0.64469		13.78699	
77 1,1,2-Trichloroethane	0.44412	0.42456	0.40261	0.39604	0.38773	0.38725						
	0.46585						AVRG		0.41545		7.32080	
78 Chlorodibromomethane	0.31089	0.32819	0.36660	0.40005	0.42623	0.45463						
	0.32883						AVRG		0.37363		14.69287	

Report Date : 25-Oct-2016 07:09 Page 12

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	0.5000000 Level 8										
79 1,3-Dichloropropane	0.94944	0.89018	0.84722	0.85592	0.83916	0.84761					
	1.04664						AVRG		0.89660		8.53527
80 1,2-Dibromoethane	0.39514	0.39016	0.40537	0.40840	0.41291	0.42270					
	0.45800						AVRG		0.41324		5.44563
81 2-Hexanone	0.26549	0.27769	0.31515	0.34833	0.34148	0.34738					
	0.28896						AVRG		0.31207		11.19437
82 1-Chlorohexane	0.66649	0.69151	0.71264	0.66456	0.74299	0.77956					
	0.84430						AVRG		0.72886		8.99338
84 Chlorobenzene	1.62281	1.49311	1.38610	1.33471	1.34965	1.39853					
	1.91050						AVRG		1.49934		13.79897
85 Ethylbenzene	0.85964	0.82780	0.77321	0.73304	0.75107	0.78554					
	1.00235						AVRG		0.81895		11.20990
86 1,1,1,2-Tetrachloroethane	0.38204	0.39121	0.39199	0.39695	0.40968	0.42531					
	0.35861						AVRG		0.39368		5.32972

Report Date : 25-Oct-2016 07:09 Page 13

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
87 mp-Xylene	0.93315	0.95752	0.92621	0.89048	0.91265	0.95540						
	1.11404						AVRG		0.95563		7.70860	
88 o-Xylene	0.78160	0.82160	0.82456	0.82972	0.86575	0.88637						
	0.92962						AVRG		0.84846		5.78158	
89 Styrene	2.09513	2.21890	2.26663	2.20601	2.25093	2.21398						
	2.32321						AVRG		2.22497		3.14802	
90 Bromoform	0.23574	0.22548	0.25304	0.28360	0.30763	0.33245						
	0.21703						AVRG		0.26500		16.57401	<-
91 Isopropylbenzene	3.62943	3.67994	3.62774	3.35092	3.42308	3.38168						
	4.35645						AVRG		3.63561		9.47768	
93 Bromobenzene	0.81241	0.76139	0.72397	0.68847	0.70420	0.71012						
	0.93455						AVRG		0.76216		11.38798	
94 n-Propylbenzene	0.92335	0.91780	0.93764	0.86157	0.88763	0.89435						
	1.01297						AVRG		0.91933		5.27062	

Report Date : 25-Oct-2016 07:09 Page 14

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	0.5000000 Level 8										
95 1,1,2,2-Tetrachloroethane	0.93957	0.87048	0.84649	0.83460	0.80913	0.79426					
	1.07706						AVRG		0.88166		11.15278
96 o-Chlorotoluene	2.82264	2.96579	2.83081	2.63576	2.68191	2.63313					
	3.41304						AVRG		2.85473		9.62066
97 1,3,5-Trimethylbenzene	2.41304	2.70472	2.78247	2.57745	2.63397	2.58735					
	2.93522						AVRG		2.66203		6.25730
98 1,2,3-Trichloropropane	0.31424	0.25793	0.25297	0.24268	0.23428	0.23084					
	0.30144						AVRG		0.26205		12.55504
99 trans-1,4-Dichloro-2-butene	0.20121	0.19251	0.21594	0.22249	0.22799	0.22733					
	0.18628						AVRG		0.21054		8.13222
M 100 1,2-Dichloroethene, Total	0.39880	0.36906	0.35314	0.34062	0.34394	0.34153					
	0.42976						AVRG		0.36812		9.28810
101 p-Chlorotoluene	2.64512	2.66736	2.56792	2.41348	2.46647	2.40123					
	3.04360						AVRG		2.60074		8.54771

Report Date : 25-Oct-2016 07:09 Page 15

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	0.5000000 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2	
102 tert-Butylbenzene	0.60924	0.61349	0.60415	0.55240	0.57375	0.57439							
	0.69225							AVRG		0.60281		7.52628	
103 Pentachloroethane	0.51243	0.47196	0.48253	0.47924	0.50187	0.50311							
	0.56172							AVRG		0.50184		6.02006	
104 1,2,4-Trimethylbenzene	2.31518	2.70432	2.73151	2.56411	2.62840	2.57603							
	2.70021							AVRG		2.60282		5.47750	
105 sec-Butylbenzene	3.23657	3.32780	3.40309	3.06982	3.18629	3.10322							
	3.97372							AVRG		3.32864		9.24512	
106 p-Isopropyltoluene	0.57719	0.60158	0.65129	0.61392	0.64755	0.65174							
	0.69616							AVRG		0.63420		6.22181	
107 1,3-Dichlorobenzene	1.54816	1.42950	1.30033	1.20856	1.25425	1.24231							
	1.82142							AVRG		1.40065		15.78007	<-
109 1,4-Dichlorobenzene	1.62012	1.44172	1.30607	1.23014	1.27421	1.28947							
	2.18591							AVRG		1.47823		22.95255	<-

Report Date : 25-Oct-2016 07:09 Page 16

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
110 Benzyl Chloride	0.08425	0.10108	0.12607	0.16502	0.19570	0.22637						
	+++++						AVRG		0.14975		37.10150	<-
111 n-Butylbenzene	0.51675	0.49271	0.54432	0.51873	0.55586	0.55878						
	0.72221						AVRG		0.55848		13.60947	
112 Hexachloroethane	0.38567	0.32974	0.33979	0.35532	0.40133	0.41499						
	0.48590						AVRG		0.38753		13.84879	
113 1,2-Dichlorobenzene	1.35494	1.22128	1.14414	1.10203	1.12680	1.12264						
	1.69037						AVRG		1.25174		16.95447	<-
114 1,2-Dibromo-3-chloropropane	0.07235	0.08075	0.08369	0.09528	0.10016	0.11117						
	0.05628						AVRG		0.08567		21.43056	<-
115 Nitrobenzene	+++++	+++++	0.00188	0.00425	0.00620	0.01372						
	+++++						AVRG		0.00651		78.62679	<-
116 Hexachlorobutadiene	0.36670	0.23306	0.21799	0.20029	0.21098	0.20827						
	0.69173						AVRG		0.30414		59.31429	<-

Report Date : 25-Oct-2016 07:09 Page 17

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
117 1,2,4-Trichlorobenzene	0.48091	0.39011	0.43057	0.47380	0.50367	0.53140						
	0.63337						AVRG		0.49197		15.80643	<-
118 Naphthalene	0.40097	0.41384	0.61066	0.90980	1.00516	1.16928						
	0.55651						AVRG		0.72374		41.95815	<-
119 1,2,3-Trichlorobenzene	0.29134	0.24171	0.27642	0.32091	0.32381	0.35942						
	0.36710						AVRG		0.31153		14.43604	
M 120 1,3-Dichloropropene, Total	0.62687	0.67354	0.75131	0.81065	0.84783	0.87985						
	0.70551						AVRG		0.75651		12.40029	
M 121 Total Xylenes	0.88263	0.91221	0.89232	0.87022	0.89702	0.93239						
	1.05257						AVRG		0.91991		6.72402	
$ 41 Dibromofluoromethane	0.20636	0.18588	0.18488	0.18474	0.18984	+++++						
	0.23517						AVRG		0.19781		10.14325	
$ 51 1,2-Dichloroethane-d4	0.32019	0.26494	0.23795	0.25638	0.23731	0.23343						
	0.36350						AVRG		0.27338		18.18275	<-

Report Date : 25-Oct-2016 07:09 Page 18

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Compound	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	0.5000000 Level 8											
$ 68 Toluene-d8	2.24189	1.82761	1.89488	1.85431	1.87492	1.90676						
	2.52862						AVRG		2.01843		13.13767	
$ 92 4-Bromofluorobenzene	0.74190	0.59844	0.62521	0.59874	0.62809	0.62047						
	0.94705						AVRG		0.67999		18.76083	<-

Report Date : 25-Oct-2016 07:09 Page 19

ALS Environmental Services

INITIAL CALIBRATION DATA

Start Cal Date : 24-OCT-2016 23:25
End Cal Date : 25-OCT-2016 01:36
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b09.m
Last Edit : 25-Oct-2016 07:05 don

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response

Data File: 316102453.D Page 1
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610245
Lab Smp Id: VSTD00.5
Inj Date : 24-OCT-2016 23:25
Operator : CJG Inst ID: ms03.i
Smp Info : VSTD00.5;;1;1;8;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b0
Meth Date : 25-Oct-2016 10:10 joshua Quant Type: ISTD
Cal Date : 24-OCT-2016 23:25 Cal File: 316102453.D
Als bottle: 3 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: ALMDTW7062

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.259	(0.332)	8466	0.50000	0.690411(a)	
2 Chloromethane	50	1.389	1.390	(0.367)	8143	0.50000	0.728619(a)	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	8644	0.50000	0.679652(a)	
4 Bromomethane	94	1.646	1.646	(0.434)	3402	0.50000	0.875039(aQM)	H
5 Chloroethane	64	1.722	1.723	(0.454)	5375	0.50000	0.706730(a)	
6 Pentane	41	1.793	1.794	(0.473)	5345	0.50000	0.812643(a)	
7 Trichlorofluoromethane	101	1.798	1.799	(0.475)	9331	0.50000	0.722796(a)	
8 Dichlorofluoromethane	67	1.826	1.826	(0.482)	11218	0.50000	0.670215(a)	
9 Ethyl Ether	74	1.968	1.968	(0.519)	3472	0.50000	0.635084(aQ)	
10 1,1-Dichloroethene	61	2.093	2.088	(0.552)	7748	0.50000	0.667648(a)	
11 Freon 113	101	2.104	2.105	(0.555)	4214	0.50000	0.687634(a)	
12 Carbon Disulfide	76	2.120	2.121	(0.560)	12721	0.50000	0.613565(a)	
13 Iodomethane	127	2.180	2.181	(0.575)	149	0.50000	2.91993(Q)	
14 Acrolein	56	2.273	2.274	(0.600)	6329	5.00000	5.45589(a)	
15 Isopropyl Alcohol	45	2.333	2.334	(0.616)	1235	2.50000	4.62437(a)	
16 3-Chloro-1-propene	41	2.344	2.345	(0.619)	5739	0.50000	0.504444(a)	
17 Methylene Chloride	84	2.404	2.405	(0.634)	11376	0.50000	0.309773(a)	
18 Acetone	58	2.426	2.427	(0.640)	2078	2.50000	3.41282(aQ)	
19 Methyl acetate	74	2.480	2.481	(0.655)	700	0.50000	0.562208(aQ)	
20 trans-1,2-Dichloroethene	61	2.486	2.487	(0.656)	7268	0.50000	0.635506(a)	
21 Hexane	57	2.519	2.519	(0.665)	10331	0.50000	0.631555(a)	

Data File: 316102453.D Page 2
Report Date: 25-Oct-2016 10:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.535	2.530	(0.669)	11529	0.50000	0.554495(a)	
	23 tert.- Butyl Alcohol	59	2.568	2.563	(0.678)	1262	2.50000	2.85415(a)	
	24 Acetonitrile	41	2.682	2.683	(0.708)	3235	2.50000	4.26442(a)	
	25 Diisopropyl ether	45	2.721	2.721	(0.718)	14297	0.50000	0.498743(a)	
	26 Chloroprene	53	2.797	2.798	(0.738)	6871	0.50000	0.591489(a)	
	27 1,1-Dichloroethane	63	2.813	2.814	(0.742)	8844	0.50000	0.588192(a)	
	28 Acrylonitrile	53	2.841	2.841	(0.750)	7543	2.50000	2.65567(a)	
	29 Ethyl tert-butyl ether	59	2.912	2.912	(0.768)	11655	0.50000	0.477618(a)	
	30 n-Propanol	41	2.912	2.912	(0.768)	3817	5.00000	6.90834(aQ)	
	31 Vinyl Acetate	86	2.928	2.929	(0.773)	561	0.50000	0.338186(aQ)	
	32 cis-1,2-Dichloroethene	61	3.097	3.098	(0.817)	7092	0.50000	0.610059(a)	
	33 2,2-Dichloropropane	77	3.163	3.158	(0.834)	5612	0.50000	0.586095(a)	
	34 Bromochloromethane	128	3.206	3.207	(0.846)	1765	0.50000	0.506762(aQ)	
	35 Cyclohexane	84	3.212	3.212	(0.847)	8084	0.50000	0.722991(a)	
	36 Chloroform	83	3.233	3.234	(0.853)	16877	0.50000	1.14847	
	37 Ethyl Acetate	43	3.277	3.278	(0.865)	3827	0.50000	0.534638(aM)	H
	38 Methyl acrylate	55	3.299	3.294	(0.870)	3442	0.50000	0.503452(aQ)	
	39 Carbon Tetrachloride	117	3.321	3.321	(0.876)	4664	0.50000	0.600066(a)	
	40 Tetrahydrofuran	42	3.332	3.327	(0.879)	6114	2.50000	2.80663(a)	
$	41 Dibromofluoromethane	113	3.337	3.338	(0.881)	3929	0.50000	0.649400(a)	
	42 1,1,1-Trichloroethane	97	3.359	3.360	(0.886)	6086	0.50000	0.562248(a)	
	43 2-Butanone	72	3.408	3.398	(0.899)	2559	2.50000	2.79648(a)	
	44 1,1-Dichloropropene	75	3.424	3.425	(0.904)	6966	0.50000	0.643276(a)	
	45 1-Chlorobutane	41	3.446	3.447	(0.909)	6277	0.50000	0.711580(a)	
	46 Heptane	71	3.512	3.512	(0.927)	3074	0.50000	0.601876(aQ)	
	47 Benzene	78	3.566	3.567	(0.941)	21151	0.50000	0.616890(a)	
	48 Propionitrile	54	3.577	3.578	(0.944)	3027	2.50000	2.89972(a)	
	49 Methacrylonitrile	67	3.588	3.583	(0.947)	1896	0.50000	0.602522(a)	
	50 tert-Amyl methyl ether	73	3.599	3.600	(0.950)	9247	0.50000	0.487597(a)	
$	51 1,2-Dichloroethane-d4	65	3.643	3.638	(0.961)	6073	0.50000	0.730402(aQ)	
	52 1,2-Dichloroethane	62	3.675	3.676	(0.970)	6413	0.50000	0.621644(a)	
	53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	781	2.50000	2.25178(aQ)	
	54 Isobutyl alcohol	43	3.615	3.632	(0.954)	763	5.00000	4.90820(aQM)	H
*	55 Fluorobenzene	96	3.790	3.791	(1.000)	1002423	30.0000		
	56 Diisobutylene	57	3.790	3.796	(1.000)	49615	0.50000	2.40763(Q)	
	57 Trichloroethene	95	3.883	3.883	(1.024)	5561	0.50000	0.735563(a)	
	58 Methyl cyclohexane	83	3.883	3.883	(0.674)	8465	0.50000	0.757728(a)	
	59 tert-Amyl Ethylether	59	3.992	3.987	(1.053)	7969	0.50000	0.458850(a)	
	60 Dibromomethane	93	4.139	4.139	(1.092)	2622	0.50000	0.611602(a)	
	61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	4810	0.50000	0.541575(aQM)	H
	62 Bromodichloromethane	83	4.221	4.222	(1.114)	4362	0.50000	0.470390(a)	
	63 Methyl methacrylate	41	4.292	4.293	(1.132)	3090	0.50000	0.466598(a)	
	64 1,4-Dioxane	88	4.336	4.336	(1.144)	354	12.5000	10.8705(aQM)	H
	65 2-Chloroethylvinyl ether	63	4.548	4.549	(1.200)	1173	0.50000	0.295843(a)	
	66 cis-1,3-Dichloropropene	75	4.603	4.604	(0.799)	5147	0.50000	0.447976(a)	
	67 Octane	85	4.603	4.609	(0.799)	2518	0.50000	0.786164(aQ)	
$	68 Toluene-d8	98	4.723	4.724	(0.820)	17071	0.50000	0.685182(a)	
	69 Toluene	92	4.756	4.756	(0.826)	10786	0.50000	0.596461(a)	
	70 Chloroacetonitrile	48	4.838	4.833	(0.840)	315	2.50000	1.84158(aQ)	
	71 2-Nitropropane	41	4.909	4.909	(0.852)	2513	2.50000	1.92520(a)	
	72 1,1-Dichloro-2-Propanone	63	4.914	4.920	(0.853)	129	0.50000	1.02720(aQM)	H
	73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.986	(0.865)	16261	2.50000	2.31685(a)	
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	3835	0.50000	0.841054(a)	
	75 trans-1,3-Dichloropropene	75	5.018	5.013	(0.871)	4379	0.50000	0.433867(a)	

Data File: 316102453.D Page 3
Report Date: 25-Oct-2016 10:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.094	5.095	(0.884)	4077	0.50000	0.437379(a)	
	77 1,1,2-Trichloroethane	83	5.121	5.122	(0.889)	3145	0.50000	0.592134(a)	
	78 Chlorodibromomethane	129	5.241	5.247	(0.910)	2220	0.50000	0.422849(a)	
	79 1,3-Dichloropropane	76	5.312	5.313	(0.922)	7066	0.50000	0.621572(aQM)	H
	80 1,2-Dibromoethane	107	5.416	5.422	(0.940)	3092	0.50000	0.567809(a)	
	81 2-Hexanone	43	5.547	5.542	(0.963)	9754	2.50000	2.13883(a)	
	82 1-Chlorohexane	91	5.738	5.739	(0.996)	5700	0.50000	0.621446(aQ)	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	405067	30.0000		
	84 Chlorobenzene	112	5.771	5.777	(1.002)	12898	0.50000	0.727357(a)	
	85 Ethylbenzene	106	5.782	5.782	(1.004)	6767	0.50000	0.694566(aQ)	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.815	(1.009)	2421	0.50000	0.458082(a)	
	87 mp-Xylene	106	5.880	5.880	(1.021)	15042	1.00000	1.27382(a)	
	88 o-Xylene	106	6.196	6.197	(1.076)	6276	0.50000	0.559136(a)	
	89 Styrene	104	6.234	6.235	(0.829)	8917	0.50000	0.514581(a)	
	90 Bromoform	173	6.262	6.262	(0.832)	833	0.50000	0.395703(a)	
	91 Isopropylbenzene	105	6.425	6.426	(0.854)	16721	0.50000	0.633423(a)	
$	92 4-Bromofluorobenzene	174	6.649	6.650	(0.884)	3635	0.50000	0.764093(a)	
	93 Bromobenzene	156	6.731	6.732	(0.895)	3587	0.50000	0.672212(a)	
	94 n-Propylbenzene	120	6.736	6.737	(0.896)	3888	0.50000	0.578296(aQ)	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.792	(0.903)	4134	0.50000	0.645241(a)	
	96 o-Chlorotoluene	91	6.867	6.868	(0.913)	13100	0.50000	0.629781(a)	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.915)	11266	0.50000	0.552941(a)	
	98 1,2,3-Trichloropropane	110	6.906	6.906	(0.918)	1157	0.50000	0.622126(a)	
	99 trans-1,4-Dichloro-2-butene	53	6.927	6.933	(0.921)	715	0.50000	0.414560(aQM)	H
M	100 1,2-Dichloroethene, Total	61				14360	1.00000	1.24556(a)	
	101 p-Chlorotoluene	91	6.993	6.994	(0.930)	11682	0.50000	0.609234(a)	
	102 tert-Butylbenzene	134	7.140	7.141	(0.949)	2657	0.50000	0.610887(aQ)	
	103 Pentachloroethane	117	7.157	7.163	(0.951)	2156	0.50000	0.574449(aQM)	H
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.956)	10364	0.50000	0.510417(a)	
	105 sec-Butylbenzene	105	7.277	7.277	(0.967)	15252	0.50000	0.618733(a)	
	106 p-Isopropyltoluene	134	7.386	7.392	(0.982)	2672	0.50000	0.552939(a)	
	107 1,3-Dichlorobenzene	146	7.462	7.463	(0.992)	6991	0.50000	0.730267(a)	
*	108 1,4-Dichlorobenzene-d4	152	7.522	7.523	(1.000)	230293	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	7.528	7.534	(1.001)	8390	0.50000	0.875930(aQ)	
	110 Benzyl Chloride	126	7.730	7.736	(1.028)	337	0.50000	0.285460(aQ)	
	111 n-Butylbenzene	134	7.735	7.736	(1.028)	2772	0.50000	0.674087(aQ)	
	112 Hexachloroethane	117	7.844	7.850	(1.043)	1865	0.50000	0.665106(aQM)	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.047)	6488	0.50000	0.754170(a)	
	114 1,2-Dibromo-3-chloropropane	75	8.537	8.542	(1.135)	216	0.50000	0.317138(aQ)	
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	9.088	9.089	(1.208)	2655	0.50000	1.65608(a)	
	117 1,2,4-Trichlorobenzene	180	9.115	9.116	(1.212)	2431	0.50000	0.682631(a)	
	118 Naphthalene	128	9.394	9.394	(1.249)	2136	0.50000	0.343677(aM)	H
	119 1,2,3-Trichlorobenzene	180	9.552	9.547	(1.270)	1409	0.50000	0.626011(a)	
M	120 1,3-Dichloropropene, Total	75				9526	1.00000	0.881843(a)	
M	121 Total Xylenes	106				21318	1.50000	1.83296(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 316102453.D Page 4
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 25-OCT-2016
Lab File ID: 316102453.D Calibration Time: 00:52
Lab Smp Id: VSTD00.5
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: CJG
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	1002423	-1.06
83 Chlorobenzene-d5	432864	216432	865728	405067	-6.42
108 1,4-Dichlorobenze	273837	136919	547674	230293	-15.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102453.D Page 5
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: VSTD00.5
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	0.690411	J
74-87-3	Chloromethane	0.728619	J
75-01-4	Vinyl Chloride	0.679652	J
74-83-9	Bromomethane	0.875039	J
75-00-3	Chloroethane	0.706730	J
109-66-0	Pentane	0.812643	J
75-69-4	Trichlorofluoromethane	0.722796	J
75-43-4	Dichlorofluoromethane	0.670215	J
60-29-7	Ethyl Ether	0.635084	J
75-35-4	1,1-Dichloroethene	0.667648	J
76-13-1	Freon 113	0.687634	J
75-15-0	Carbon Disulfide	0.613565	J
74-88-4	Iodomethane	2.91993	
107-02-8	Acrolein	5.45589	J
67-63-0	Isopropyl Alcohol	4.62437	J
107-05-1	3-Chloro-1-propene	0.504444	J
75-09-2	Methylene Chloride	0.309773	J
67-64-1	Acetone	3.41282	J
79-20-9	Methyl acetate	0.562208	J
156-60-5	trans-1,2-Dichloroethene	0.635506	J
110-54-3	Hexane	0.631555	J
1634-04-4	Methyl t-Butyl Ether	0.554495	J
75-65-0	tert.- Butyl Alcohol	2.85415	J
75-05-8	Acetonitrile	4.26442	J
108-20-3	Diisopropyl ether	0.498743	J
126-99-8	Chloroprene	0.591489	J
75-34-3	1,1-Dichloroethane	0.588192	J
107-13-1	Acrylonitrile	2.65567	J
637-92-3	Ethyl tert-butyl ether	0.477618	J
71-23-8	n-Propanol	6.90834	J
108-05-4	Vinyl Acetate	0.338186	J
156-59-2	cis-1,2-Dichloroethene	0.610059	J
594-20-7	2,2-Dichloropropane	0.586095	J
74-97-5	Bromochloromethane	0.506762	J
110-82-7	Cyclohexane	0.722991	J
67-66-3	Chloroform	1.14847	
141-78-6	Ethyl Acetate	0.534638	J
96-33-3	Methyl acrylate	0.503452	J
56-23-5	Carbon Tetrachloride	0.600066	J
109-99-9	Tetrahydrofuran	2.80663	J
71-55-6	1,1,1-Trichloroethane	0.562248	J
78-93-3	2-Butanone	2.79648	J

Data File: 316102453.D Page 6
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: VSTD00.5
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
563-58-6	1,1-Dichloropropene	0.643276	J
109-69-3	1-Chlorobutane	0.711580	J
142-82-5	Heptane	0.601876	J
71-43-2	Benzene	0.616890	J
107-12-0	Propionitrile	2.89972	J
126-98-7	Methacrylonitrile	0.602522	J
994-05-8	tert-Amyl methyl ether	0.487597	J
107-06-2	1,2-Dichloroethane	0.621644	J
75-85-4	tert-Amyl Alcohol	2.25178	J
78-83-1	Isobutyl alcohol	4.90820	J
107-39-1	Diisobutylene	2.40763	
79-01-6	Trichloroethene	0.735563	J
108-87-2	Methyl cyclohexane	0.757728	J
919-94-8	tert-Amyl Ethylether	0.458850	J
74-95-3	Dibromomethane	0.611602	J
78-87-5	1,2-Dichloropropane	0.541575	J
75-27-4	Bromodichloromethane	0.470390	J
80-62-6	Methyl methacrylate	0.466598	J
123-91-1	1,4-Dioxane	10.8705	J
110-75-8	2-Chloroethylvinyl ether	0.295843	J
10061-01-5	cis-1,3-Dichloropropene	0.447976	J
111-65-9	Octane	0.786164	J
108-88-3	Toluene	0.596461	J
107-14-2	Chloroacetonitrile	1.84158	J
79-46-9	2-Nitropropane	1.92520	J
513-88-2	1,1-Dichloro-2-Propanone	1.02720	J
108-10-1	4-Methyl-2-Pentanone(MIBK)	2.31685	J
127-18-4	Tetrachloroethene	0.841054	J
10061-02-6	trans-1,3-Dichloropropene	0.433867	J
97-63-2	Ethyl Methacrylate	0.437379	J
79-00-5	1,1,2-Trichloroethane	0.592134	J
124-48-1	Chlorodibromomethane	0.422849	J
142-28-9	1,3-Dichloropropane	0.621572	J
106-93-4	1,2-Dibromoethane	0.567809	J
591-78-6	2-Hexanone	2.13883	J
544-10-5	1-Chlorohexane	0.621446	J
108-90-7	Chlorobenzene	0.727357	J
100-41-4	Ethylbenzene	0.694566	J
630-20-6	1,1,1,2-Tetrachloroethane	0.458082	J
108383/106423	mp-Xylene	1.27382	J
95-47-6	o-Xylene	0.559136	J
100-42-5	Styrene	0.514581	J

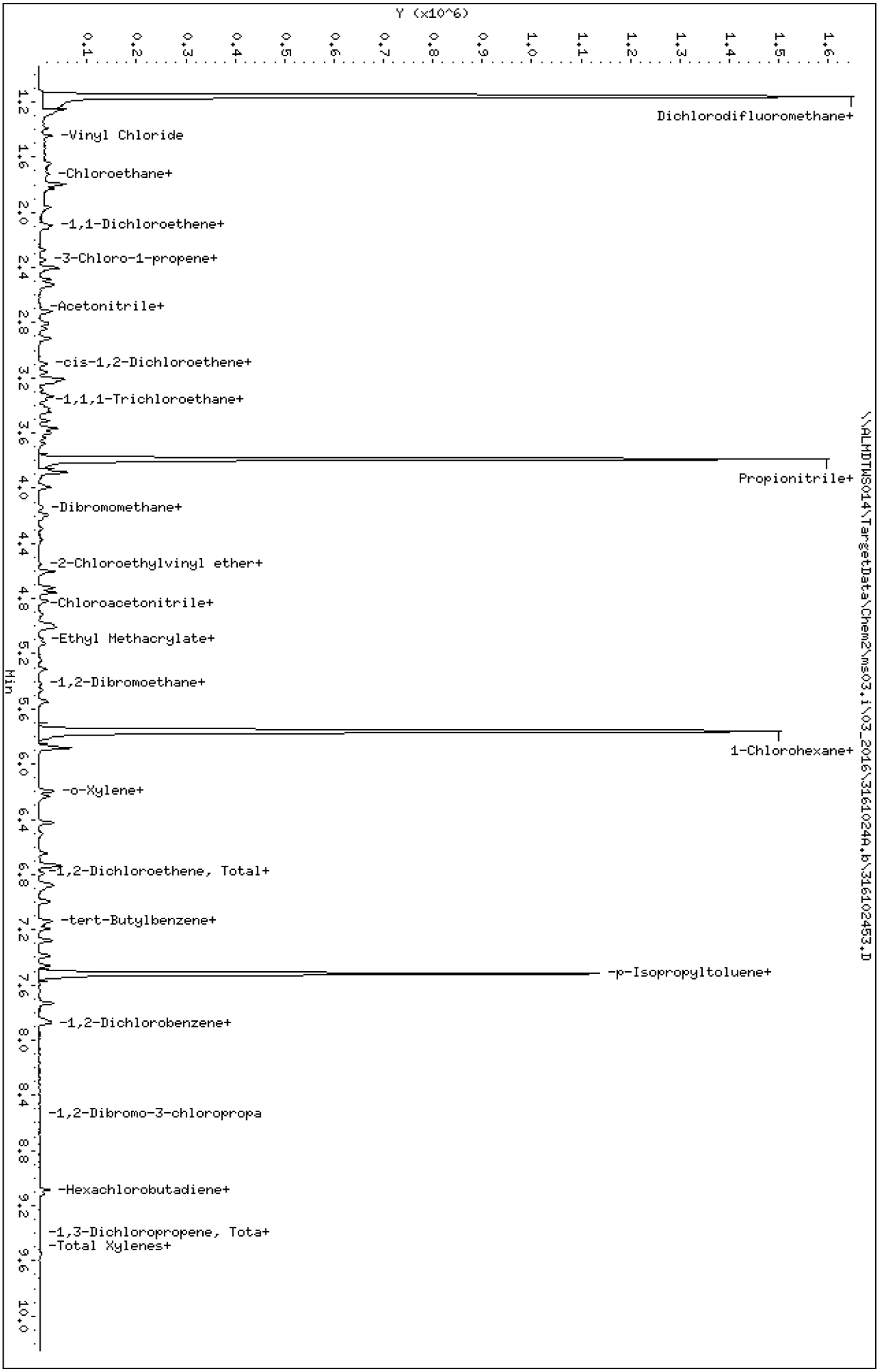
Data File: 316102453.D Page 7
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: VSTD00.5
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-25-2	Bromoform	0.395703	J
98-82-8	Isopropylbenzene	0.633423	J
108-86-1	Bromobenzene	0.672212	J
103-65-1	n-Propylbenzene	0.578296	J
79-34-5	1,1,2,2-Tetrachloroethane	0.645241	J
95-49-8	o-Chlorotoluene	0.629781	J
108-67-8	1,3,5-Trimethylbenzene	0.552941	J
96-18-4	1,2,3-Trichloropropane	0.622126	J
110-57-6	trans-1,4-Dichloro-2-butene	0.414560	J
540-59-0	1,2-Dichloroethene, Total	1.24556	J
106-43-4	p-Chlorotoluene	0.609234	J
98-06-6	tert-Butylbenzene	0.610887	J
76-01-7	Pentachloroethane	0.574449	J
95-63-6	1,2,4-Trimethylbenzene	0.510417	J
135-98-8	sec-Butylbenzene	0.618733	J
99-87-6	p-Isopropyltoluene	0.552939	J
541-73-1	1,3-Dichlorobenzene	0.730267	J
106-46-7	1,4-Dichlorobenzene	0.875930	J
100-44-7	Benzyl Chloride	0.285460	J
104-51-8	n-Butylbenzene	0.674087	J
67-72-1	Hexachloroethane	0.665106	J
95-50-1	1,2-Dichlorobenzene	0.754170	J
96-12-8	1,2-Dibromo-3-chloropropane	0.317138	J
87-68-3	Hexachlorobutadiene	1.65608	J
120-82-1	1,2,4-Trichlorobenzene	0.682631	J
91-20-3	Naphthalene	0.343677	J
87-61-6	1,2,3-Trichlorobenzene	0.626011	J
542-75-6	1,3-Dichloropropene, Total	0.881843	J
1330-20-7	Total Xylenes	1.83296	J
1868-53-7	Dibromofluoromethane	0.649400	J
17060-07-0	1,2-Dichloroethane-d4	0.730402	J
2037-26-5	Toluene-d8	0.685182	J
460-00-4	4-Bromofluorobenzene	0.764093	J


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
Min
1.2
1.6
2.0
2.4
2.8
3.2
3.6
4.0
4.4
4.8
5.2
5.6
6.0
6.4
6.8
7.2
7.6
8.0
8.4
8.8
9.2
9.6
10.0
Dichlorodifluoromethane+
-Vinyl Chloride
-Chloroethane+
-1,1-Dichloroethene+
-3-Chloro-1-propene+
-Acetonitrile+
-cis-1,2-Dichloroethene+
-1,1,1-Trichloroethane+
Propionitrile+
-Dibromomethane+
-2-Chloroethylvinyl ether+
-Chloroacetonitrile+
-Ethyl Methacrylate+
-1,2-Dibromoethane+
1-Chlorohexane+
-o-Xylene+
-1,2-Dichloroethene, Total+
-tert-Butylbenzene+
-p-Isopropyltoluene+
-1,2-Dichlorobenzene+
-1,2-Dibromo-3-chloropropa
-Hexachlorobutadiene+
-1,3-Dichloropropene, Tota+
-Total Xylenes+
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S3.D
Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S3.D
Date : 24-OCT-2016 23:25
Client ID:
Sample Info: VSTD00.5;;1;1;8;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
Page 8

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 9

Date : 24-OCT-2016 23:25

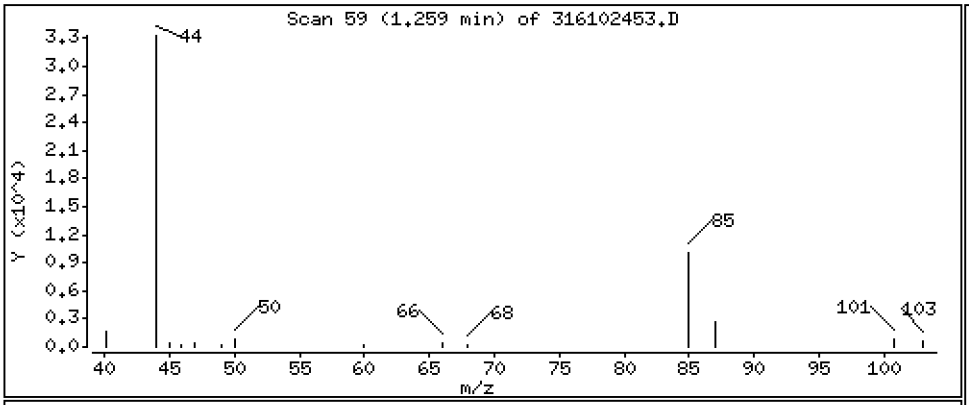
Client ID: Instrument: ms03.i

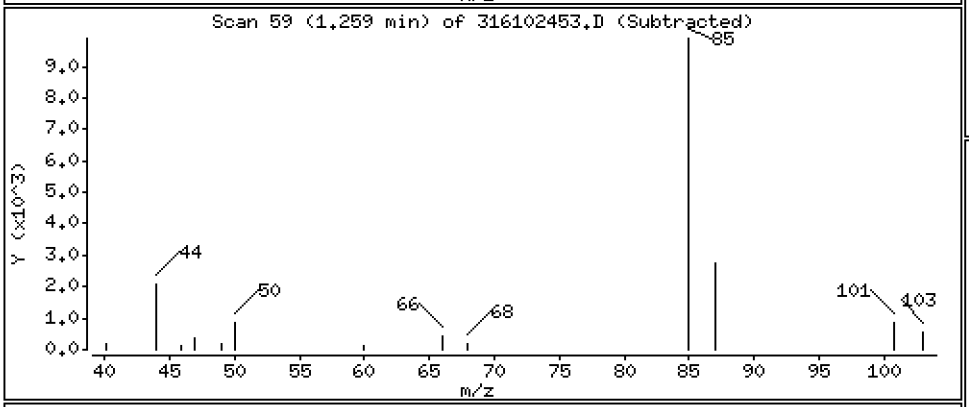
Sample Info: VSTD00.5;;1;1;8;;;

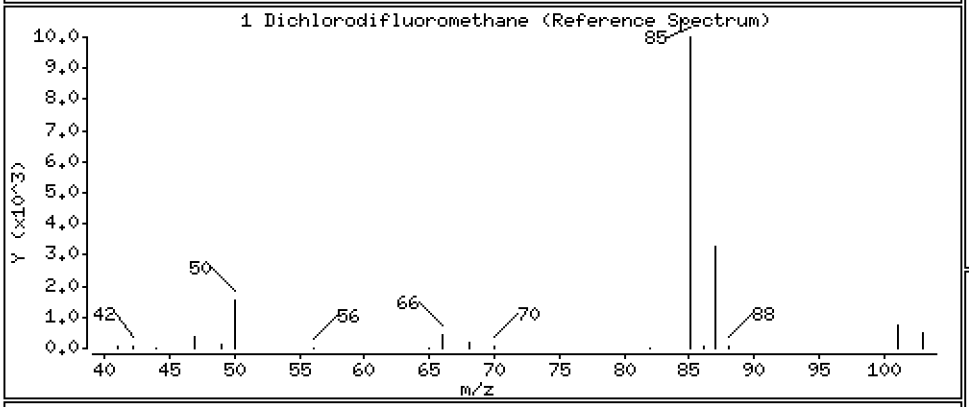
Purge Volume: 5.0 Operator: CJG

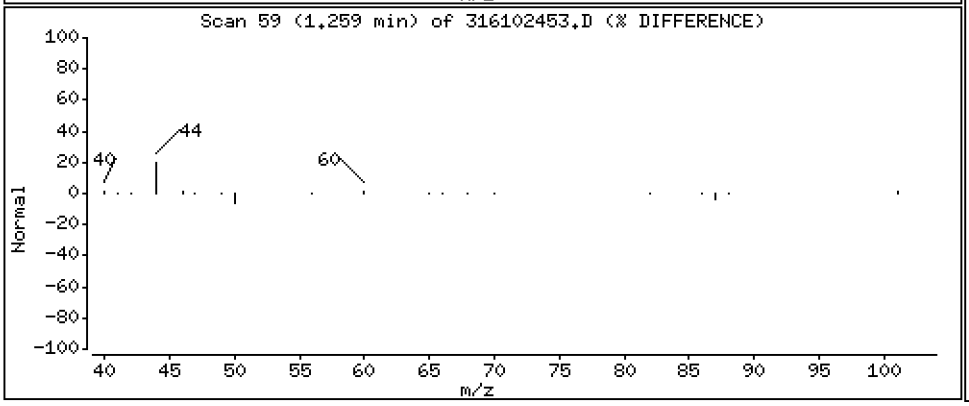
Column phase: DB-VRX Column diameter: 0.25

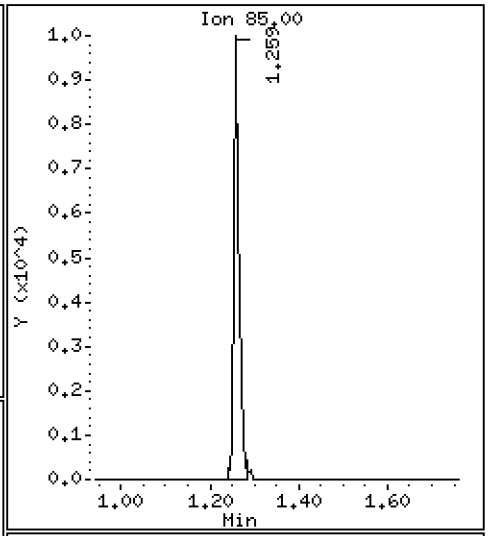
1 Dichlorodifluoromethane Concentration: 0.690411 ug/L

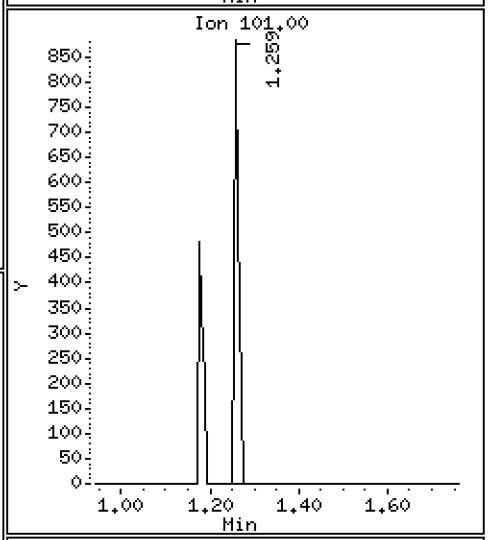


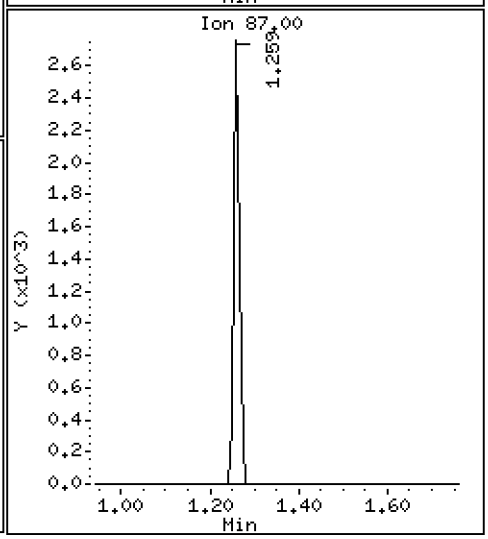












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 10

Date : 24-OCT-2016 23:25

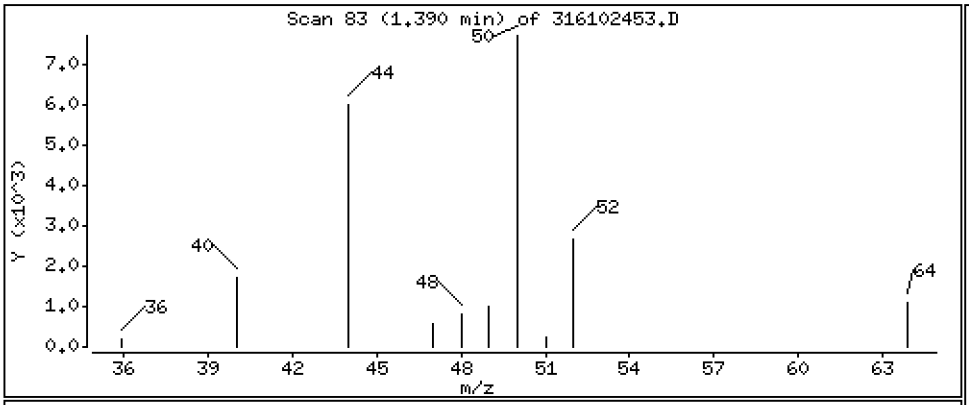
Client ID: Instrument: ms03.i

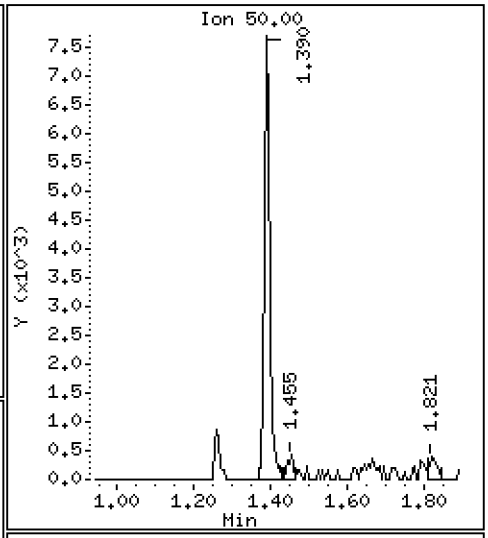
Sample Info: VSTD00.5;;1;1;8;;;

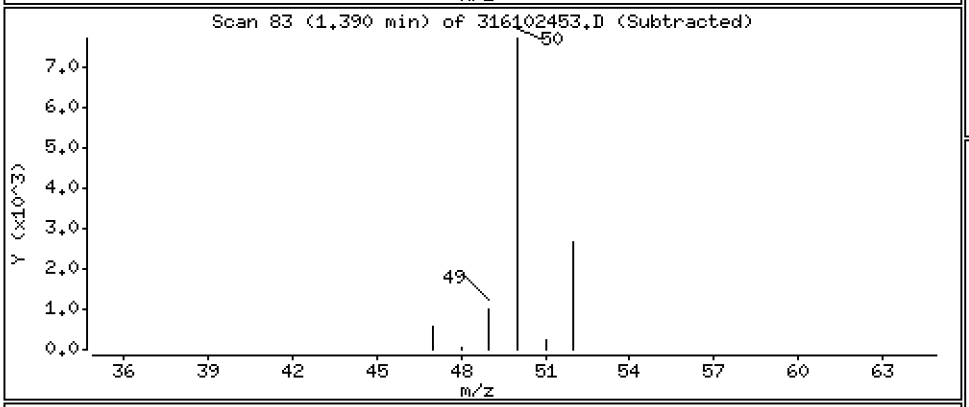
Purge Volume: 5.0 Operator: CJG

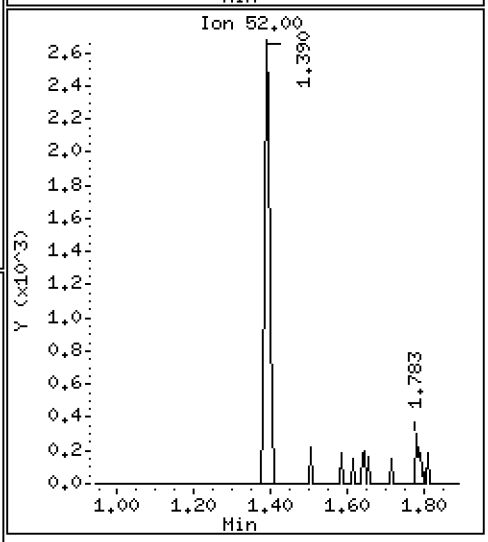
Column phase: DB-VRX Column diameter: 0.25

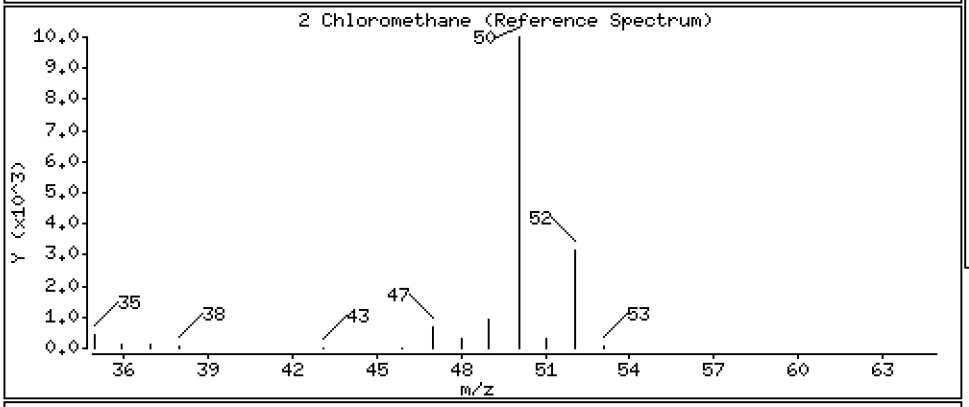
2 Chloromethane Concentration: 0.728619 ug/L

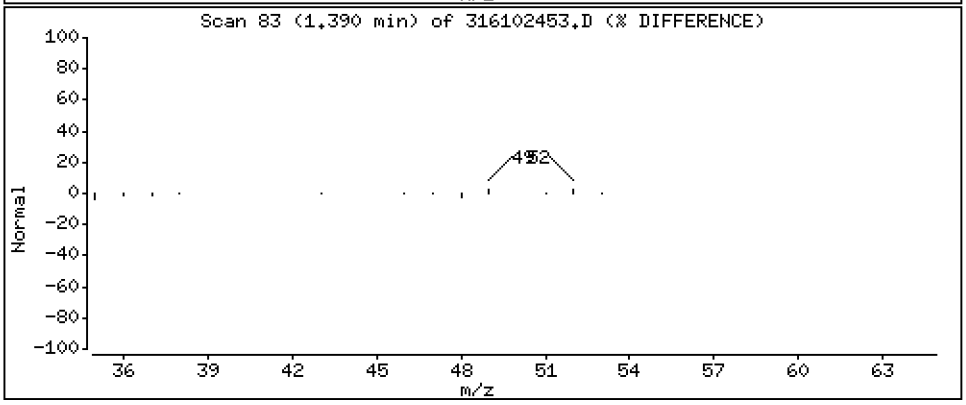












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 11

Date : 24-OCT-2016 23:25

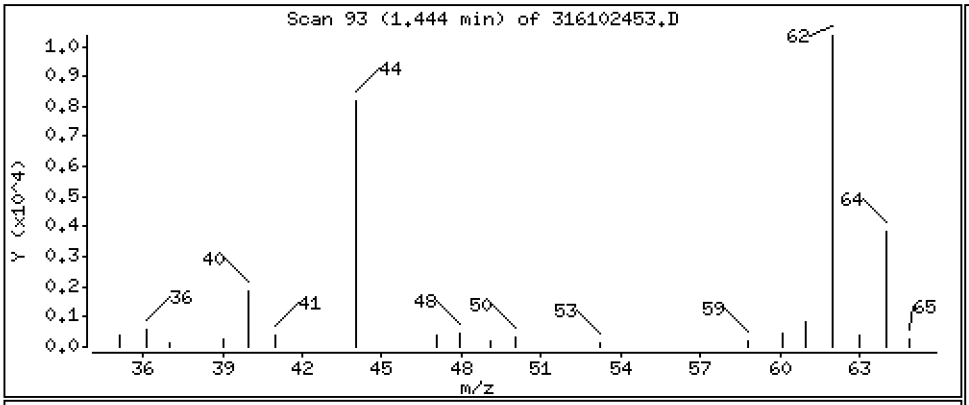
Client ID: Instrument: ms03.i

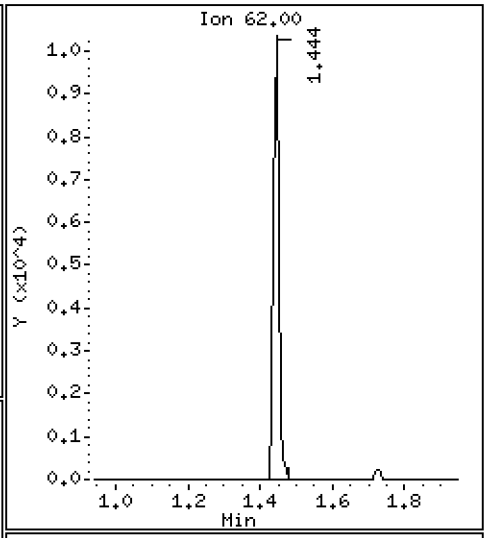
Sample Info: VSTD00.5;;1;1;8;;;

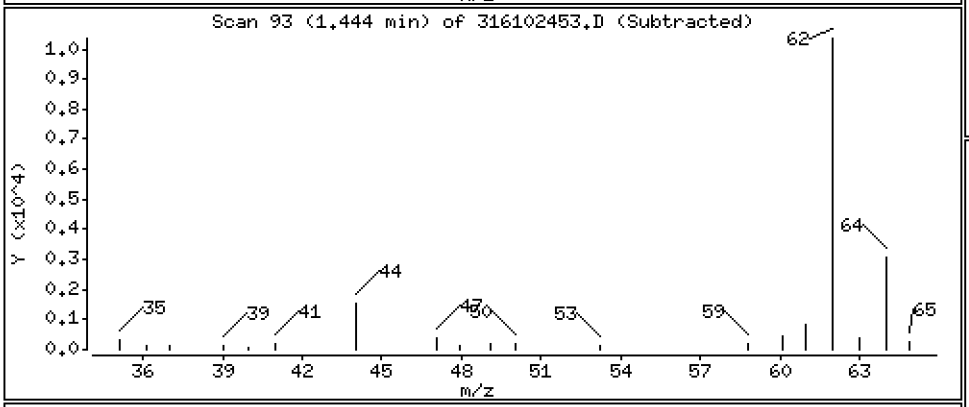
Purge Volume: 5.0 Operator: CJG

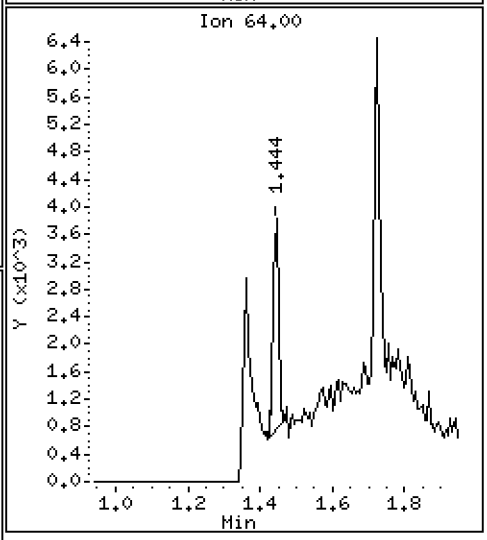
Column phase: DB-VRX Column diameter: 0.25

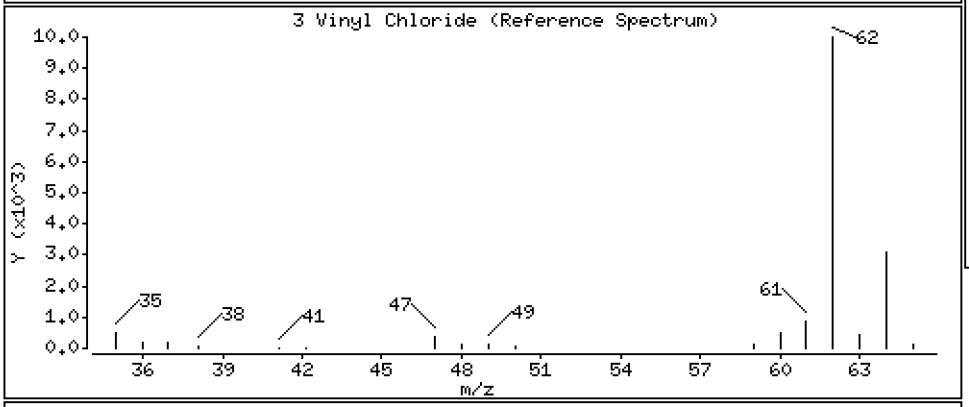
3 Vinyl Chloride Concentration: 0.679652 ug/L

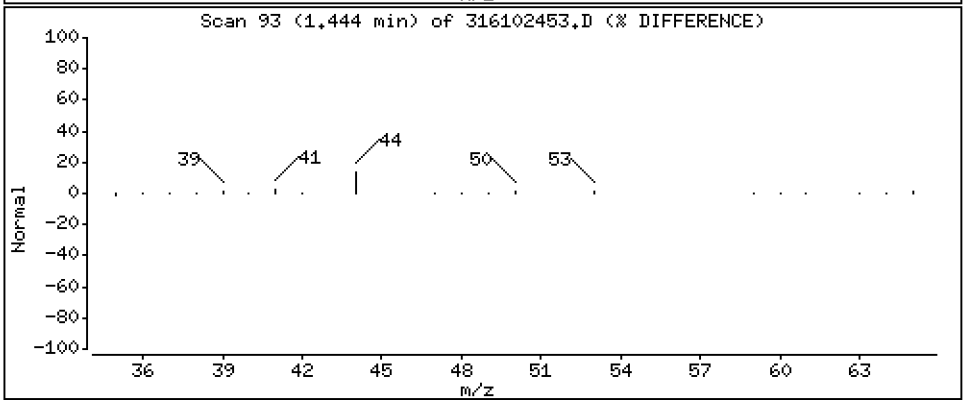












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 12

Date : 24-OCT-2016 23:25

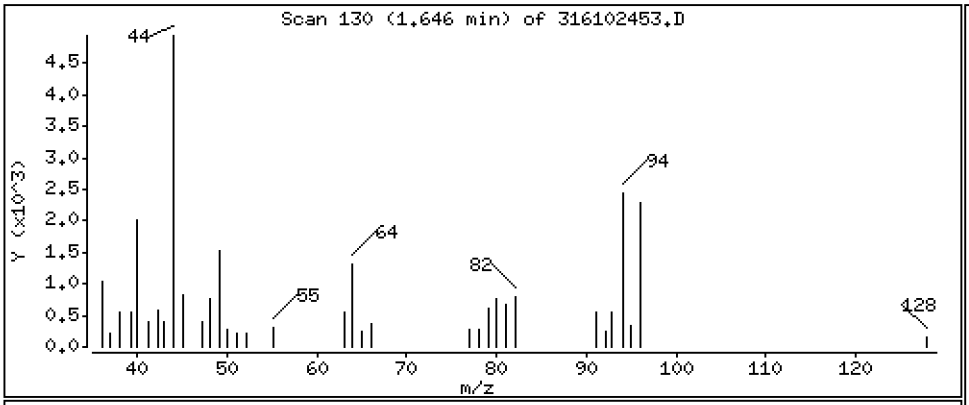
Client ID: Instrument: ms03.i

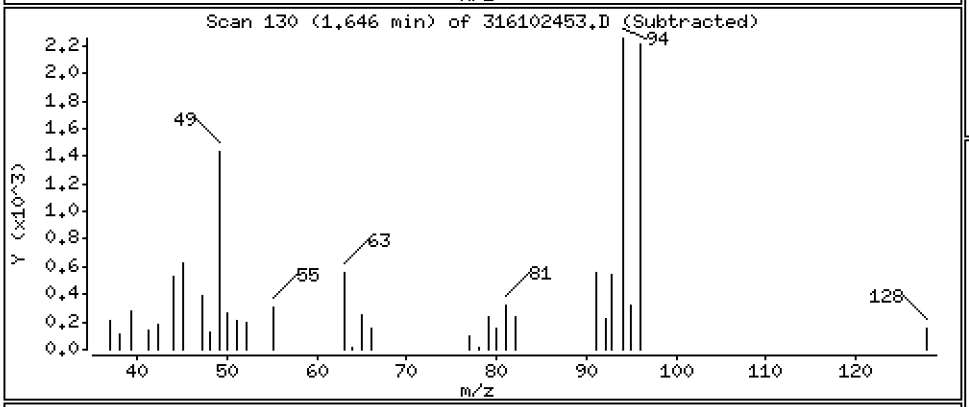
Sample Info: VSTD00.5;;1;1;8;;;

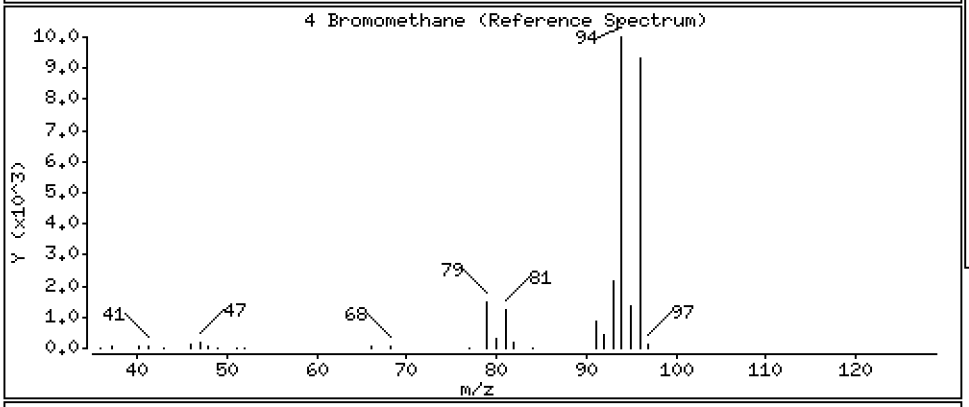
Purge Volume: 5.0 Operator: CJG

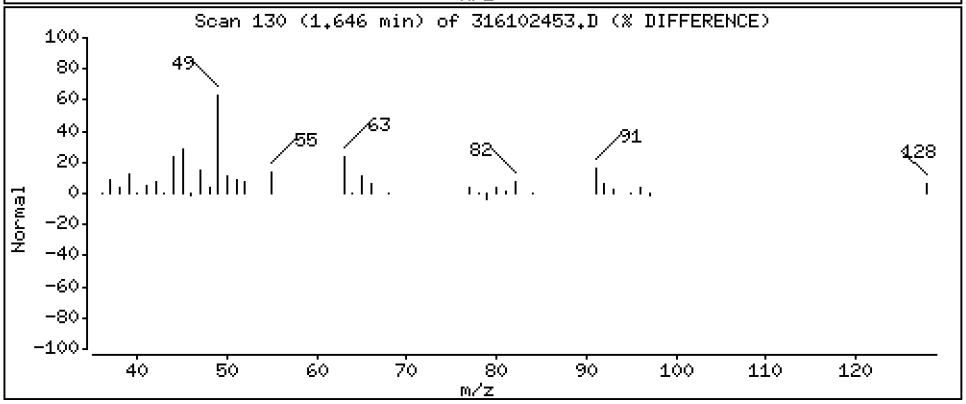
Column phase: DB-VRX Column diameter: 0.25

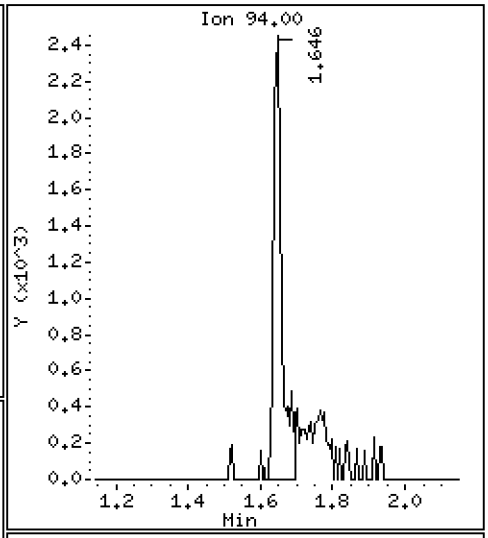
4 Bromomethane Concentration: 0.875039 ug/L

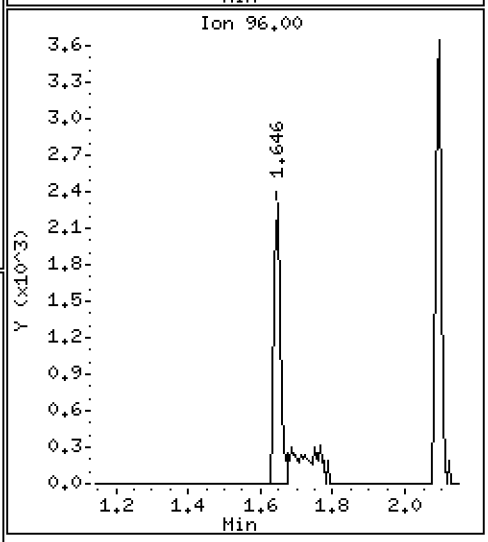












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 13

Date : 24-OCT-2016 23:25

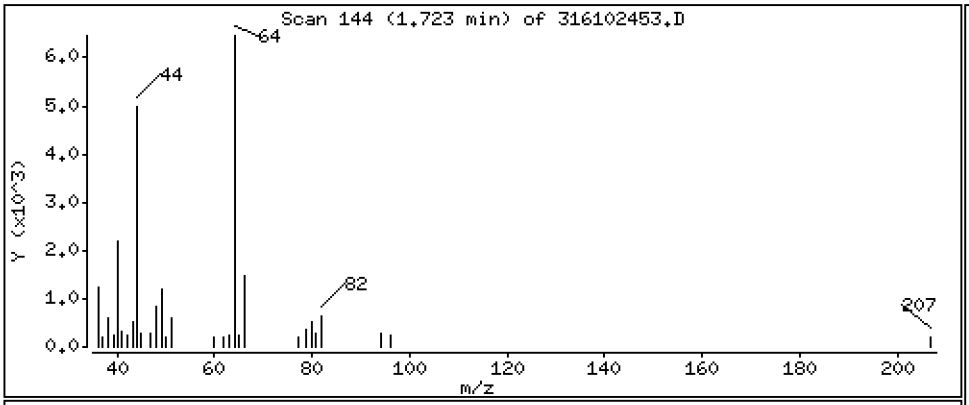
Client ID: Instrument: ms03.i

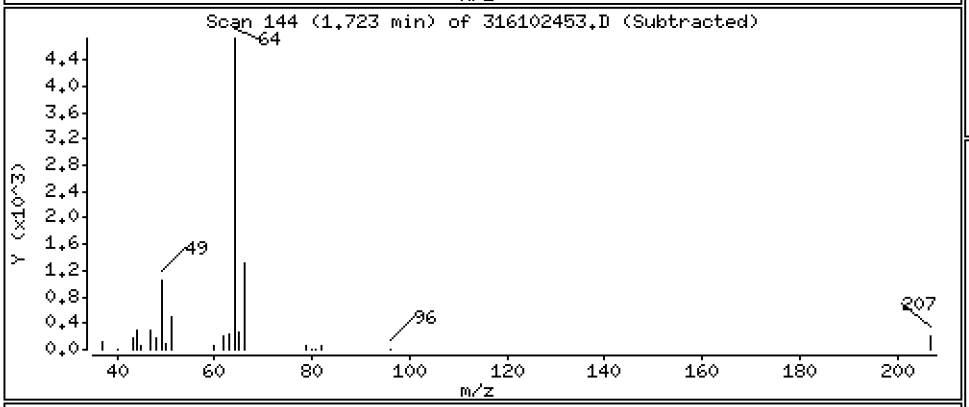
Sample Info: VSTD00.5;;1;1;8;;;

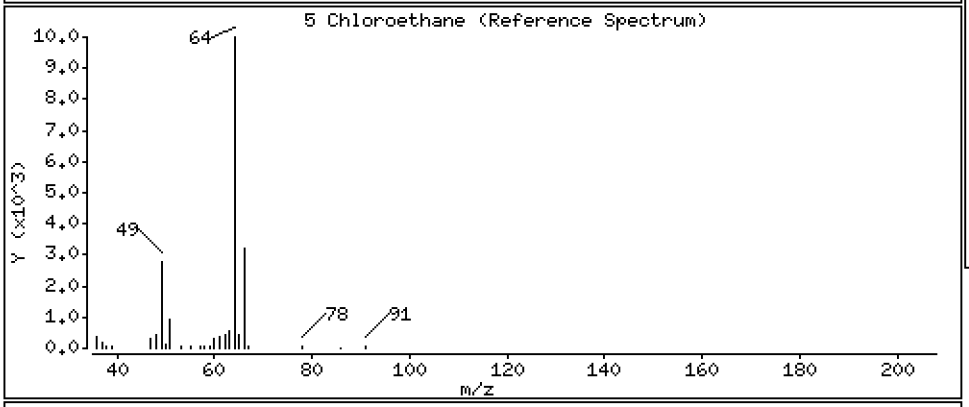
Purge Volume: 5.0 Operator: CJG

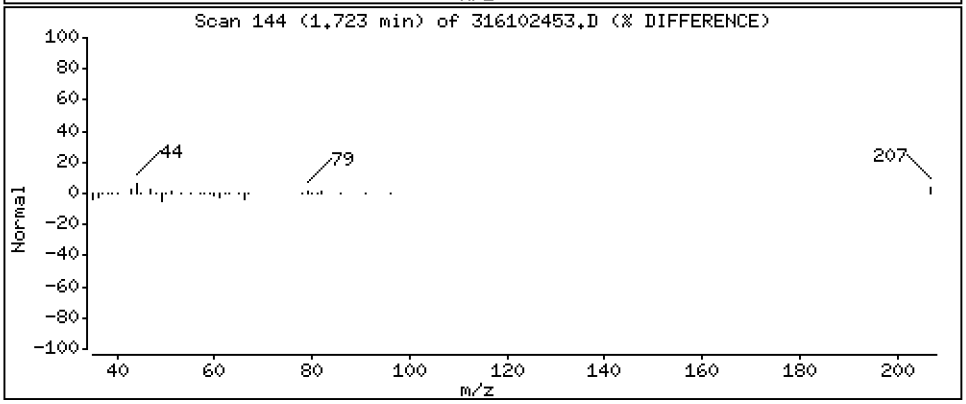
Column phase: DB-VRX Column diameter: 0.25

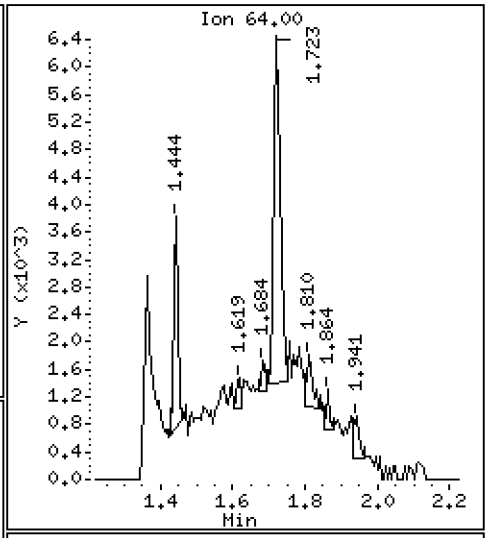
5 Chloroethane Concentration: 0.706730 ug/L

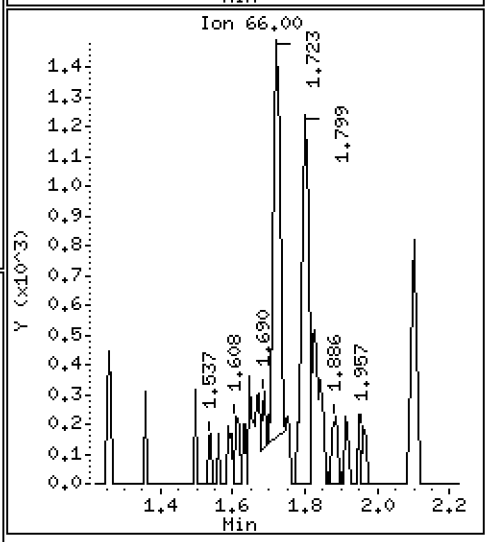












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 14

Date : 24-OCT-2016 23:25

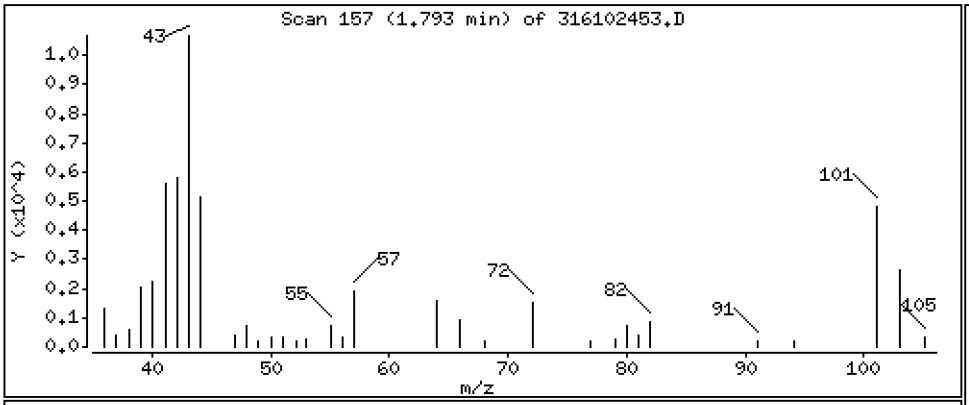
Client ID: Instrument: ms03.i

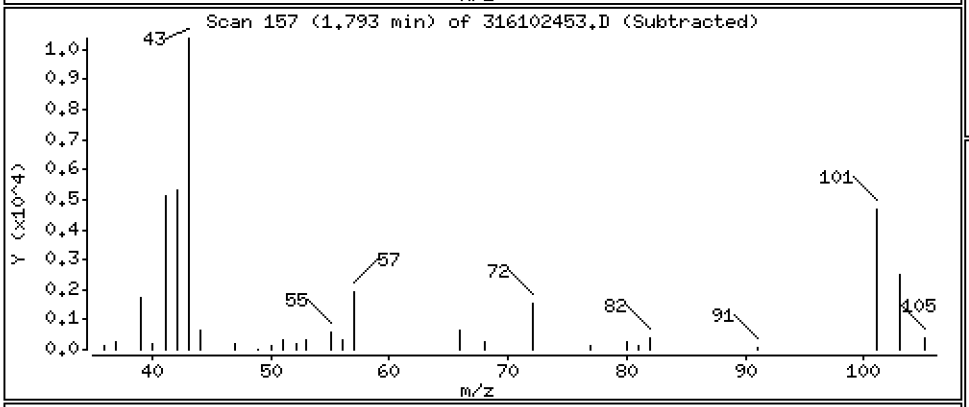
Sample Info: VSTD00.5;;1;1;8;;;

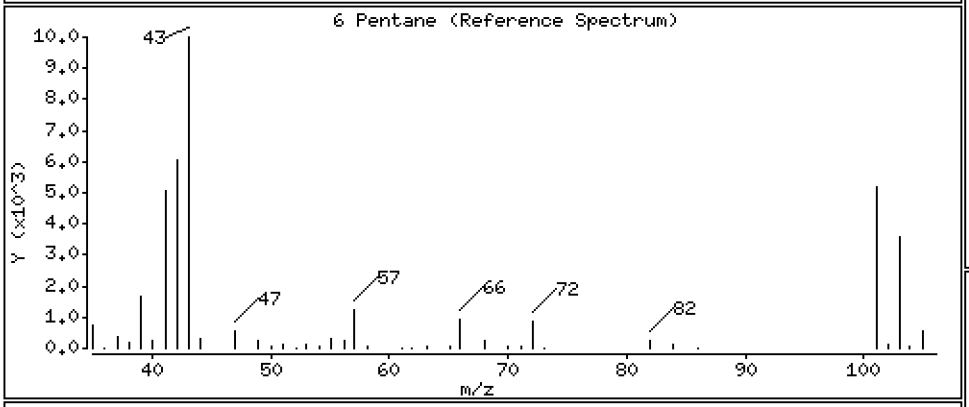
Purge Volume: 5.0 Operator: CJG

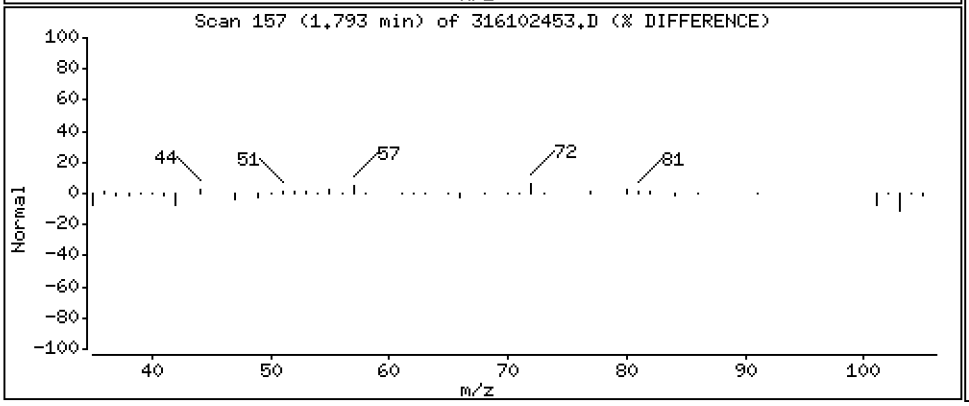
Column phase: DB-VRX Column diameter: 0.25

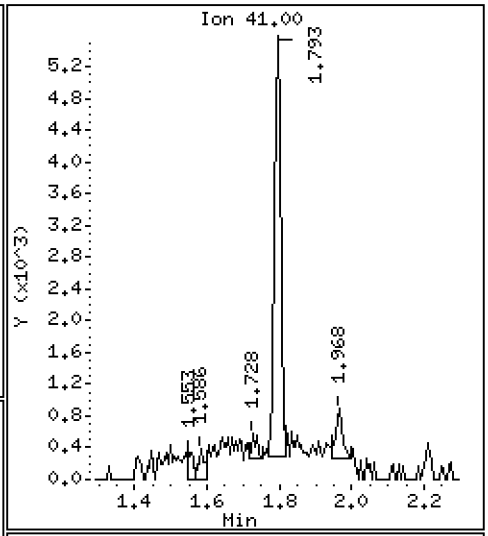
6 Pentane Concentration: 0.812643 ug/L

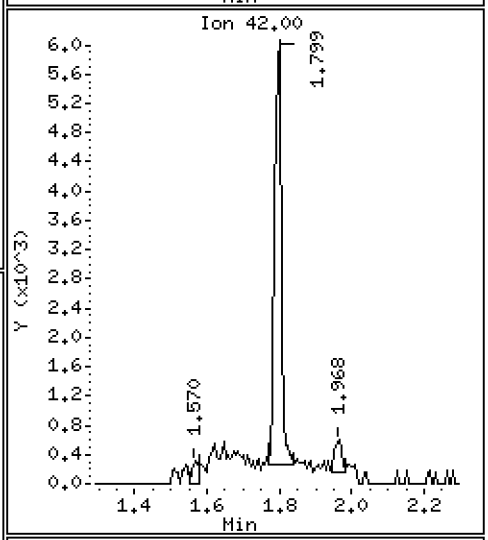


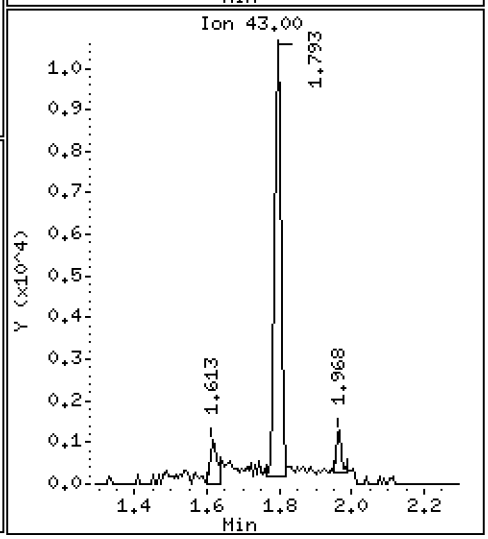












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 15

Date : 24-OCT-2016 23:25

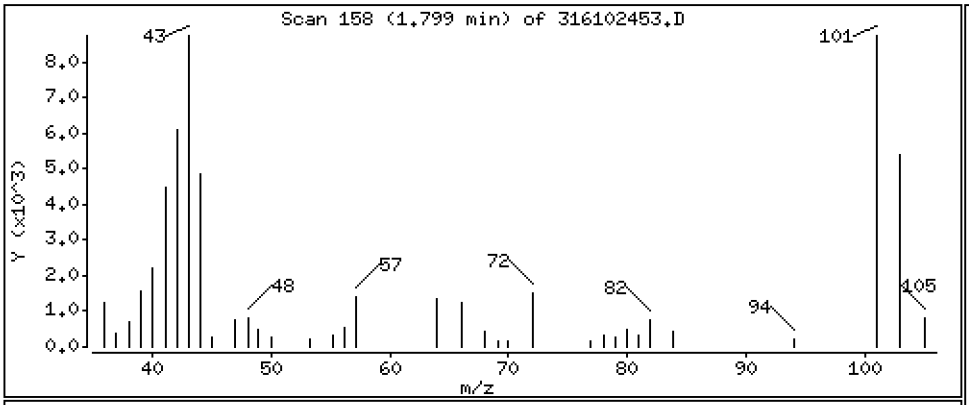
Client ID: Instrument: ms03.i

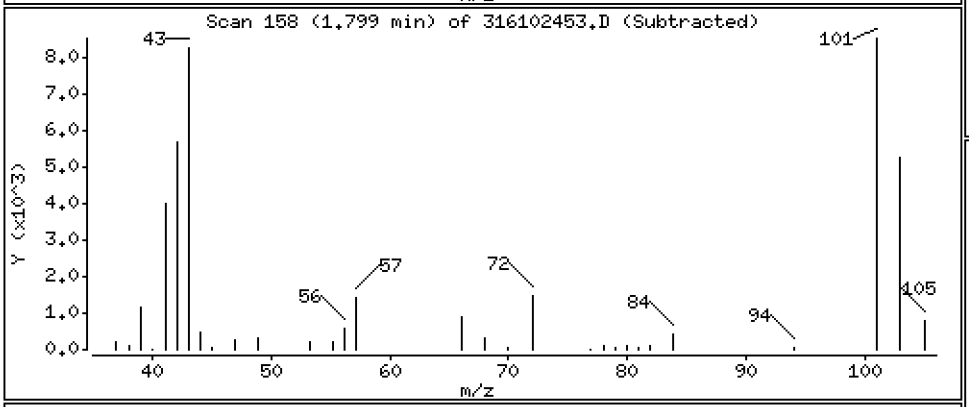
Sample Info: VSTD00.5;;1;1;8;;;

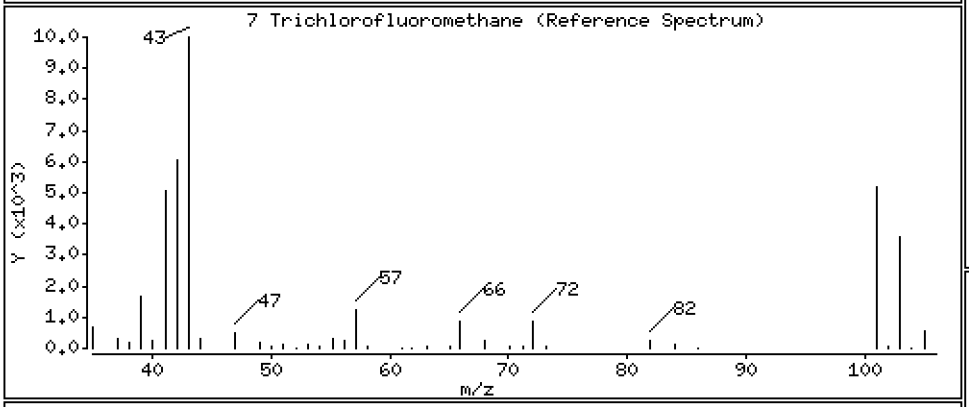
Purge Volume: 5.0 Operator: CJG

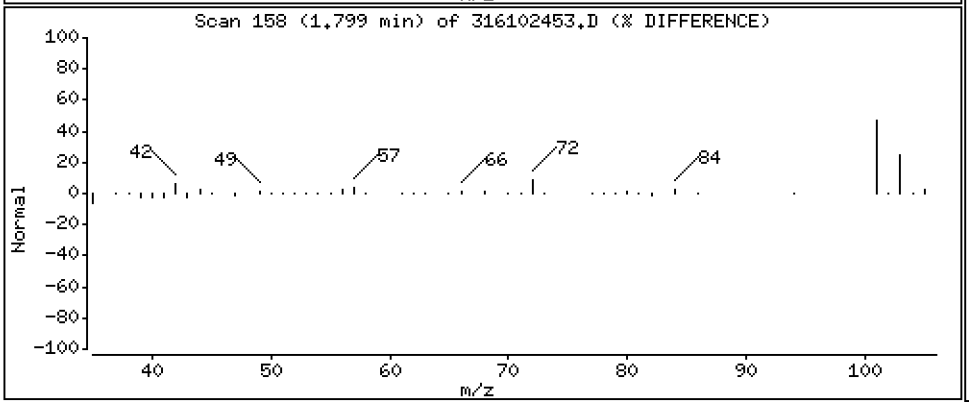
Column phase: DB-VRX Column diameter: 0.25

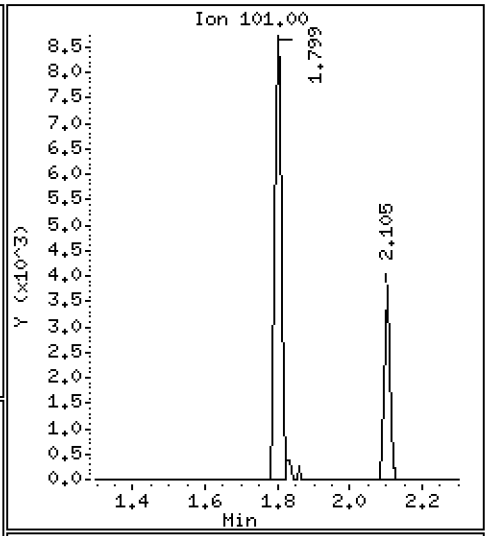
7 Trichlorofluoromethane Concentration: 0.722796 ug/L

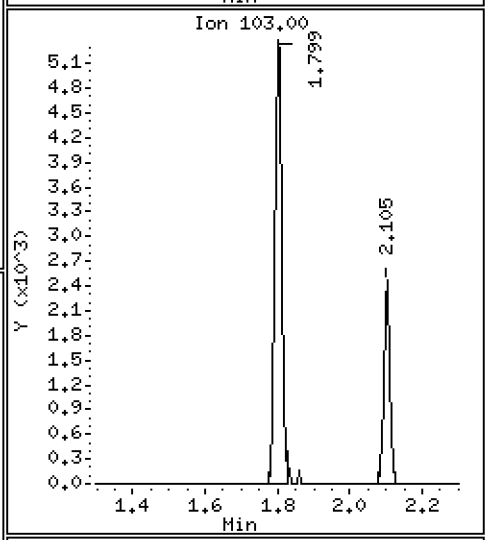


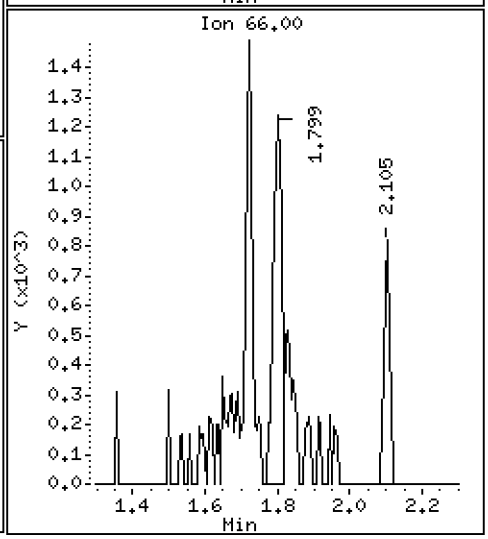












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 16

Date : 24-OCT-2016 23:25

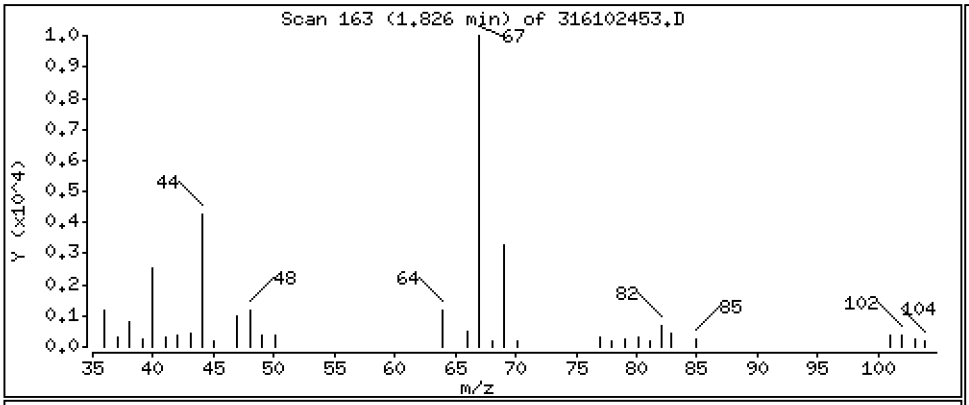
Client ID: Instrument: ms03.i

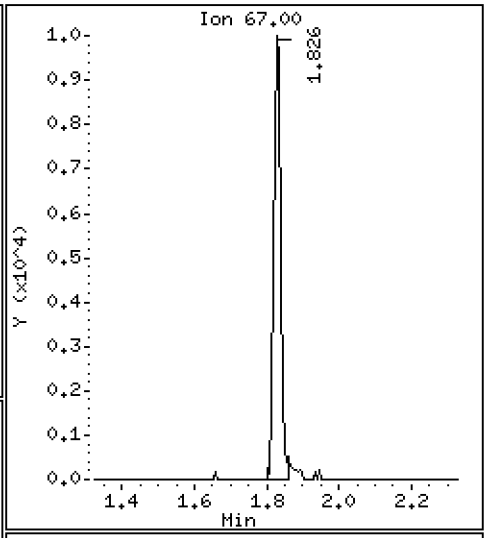
Sample Info: VSTD00.5;;1;1;8;;;

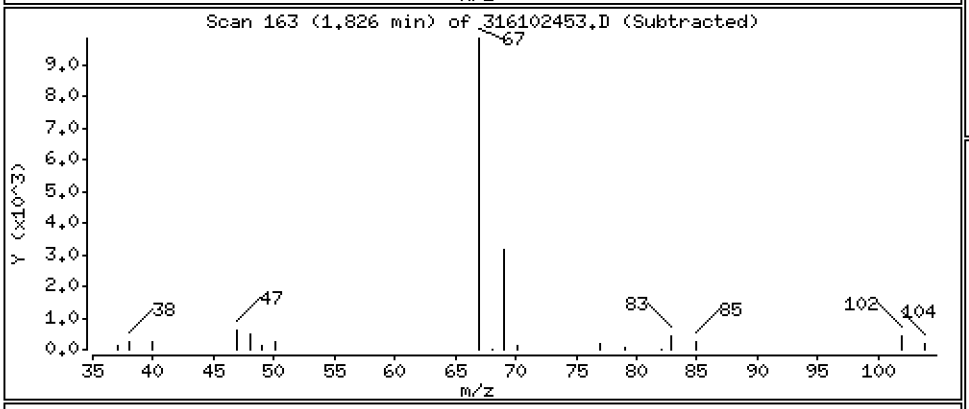
Purge Volume: 5.0 Operator: CJG

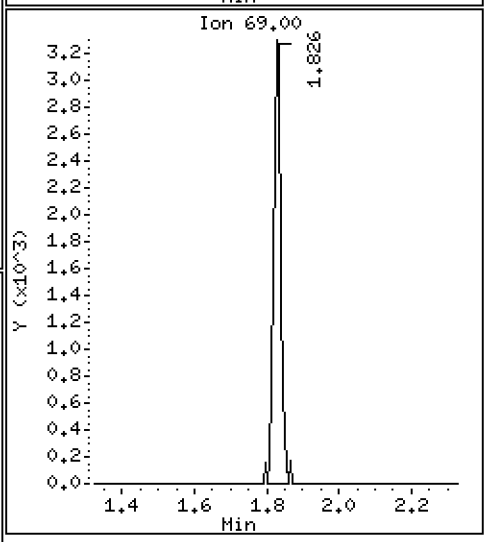
Column phase: DB-VRX Column diameter: 0.25

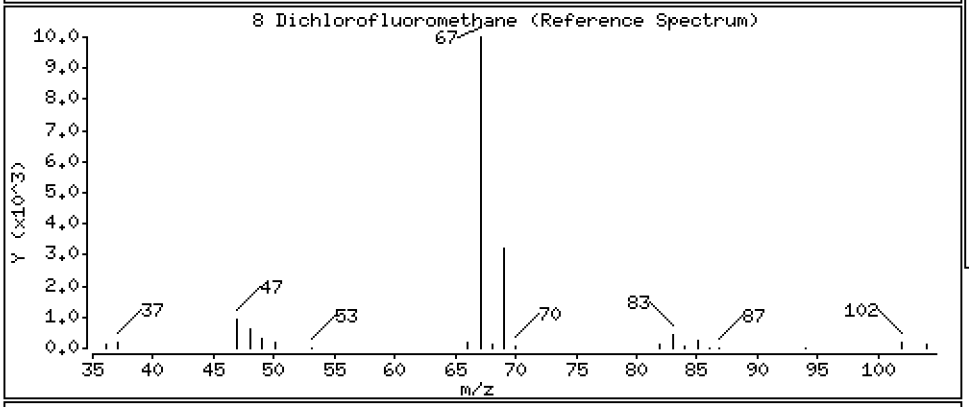
8 Dichlorofluoromethane Concentration: 0.670215 ug/L

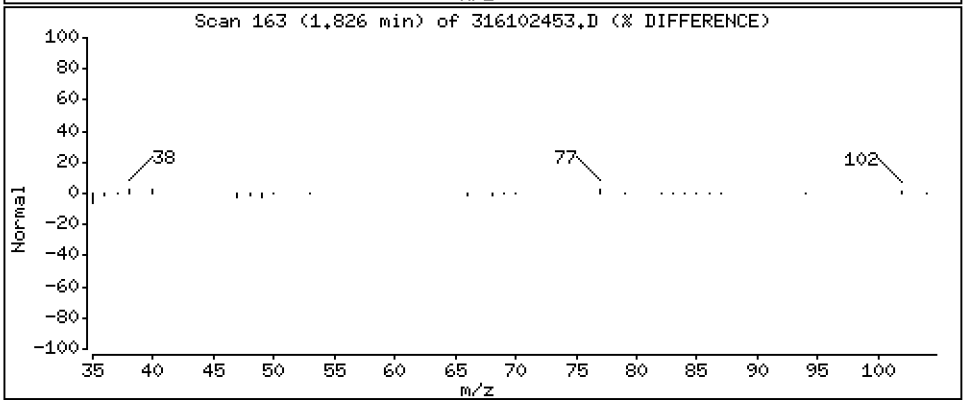












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 17

Date : 24-OCT-2016 23:25

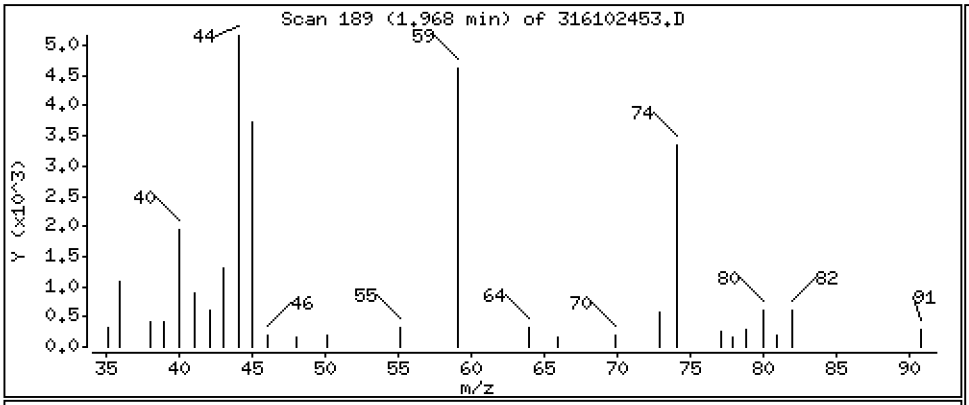
Client ID: Instrument: ms03.i

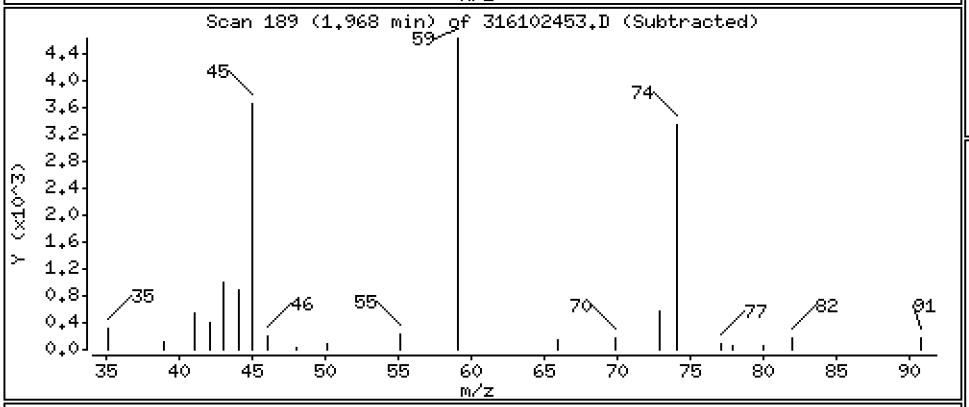
Sample Info: VSTD00.5;;1;1;8;;;

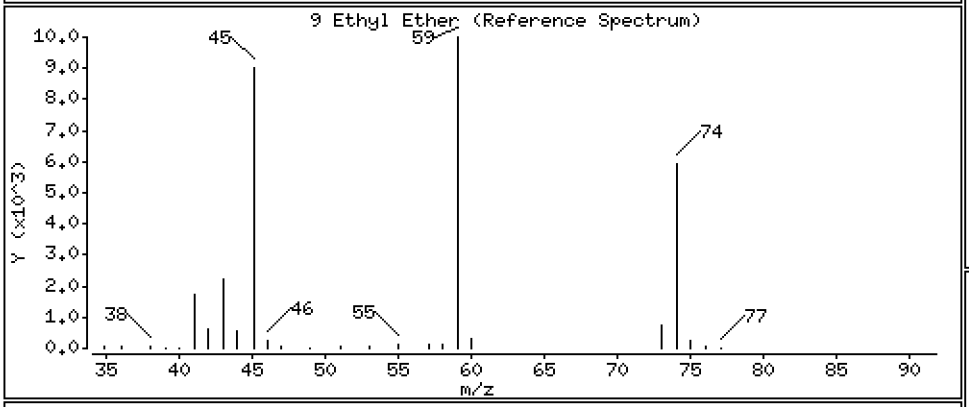
Purge Volume: 5.0 Operator: CJG

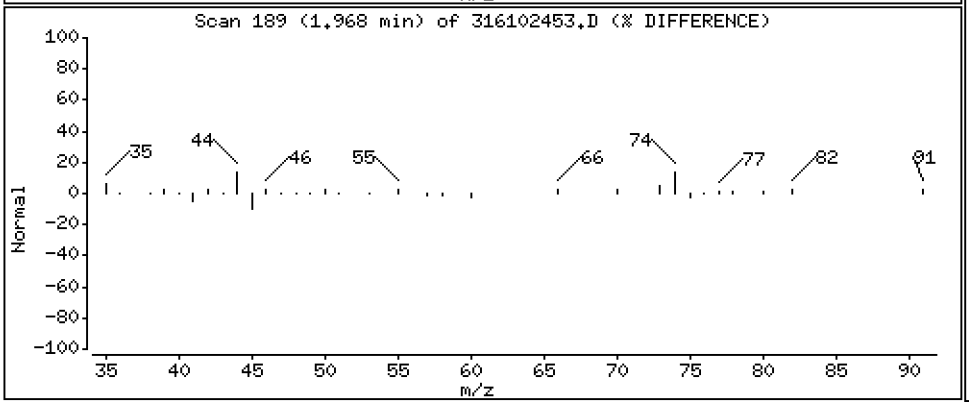
Column phase: DB-VRX Column diameter: 0.25

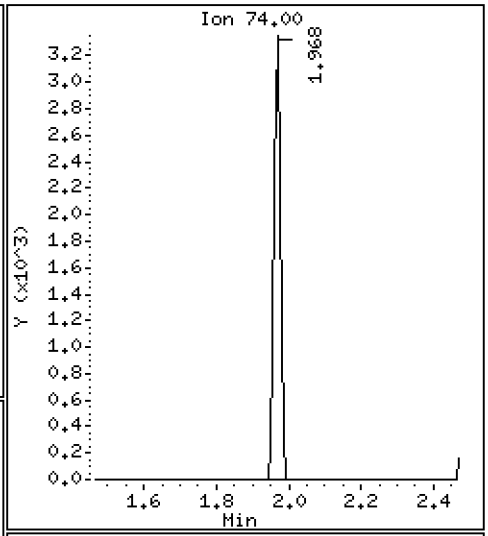
9 Ethyl Ether Concentration: 0.635084 ug/L

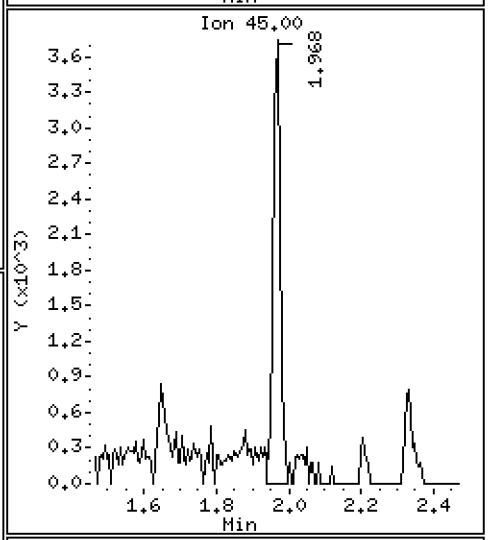


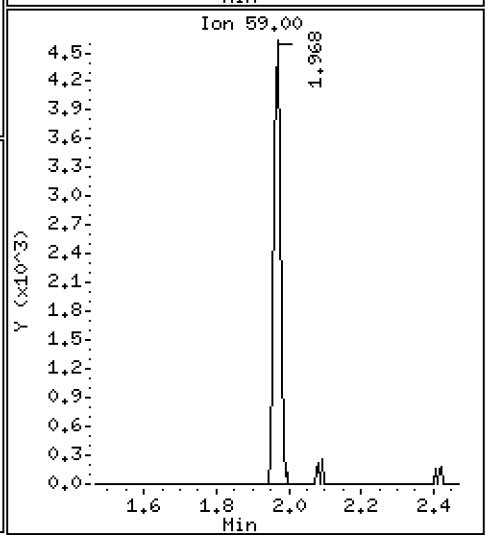












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 18

Date : 24-OCT-2016 23:25

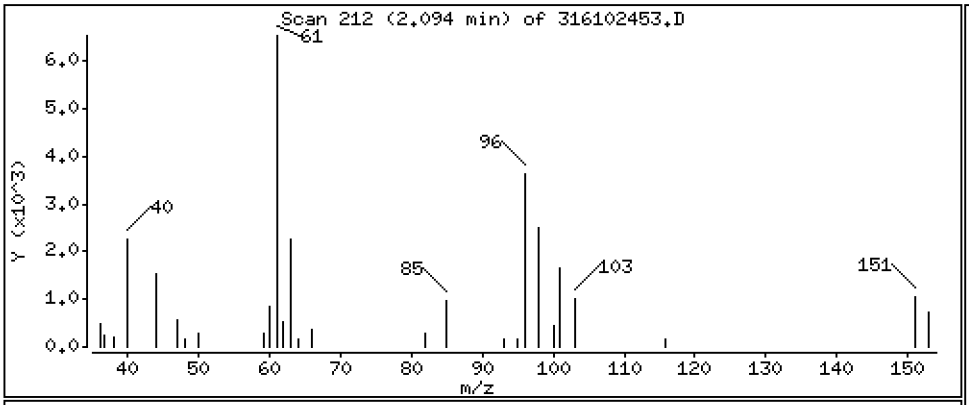
Client ID: Instrument: ms03.i

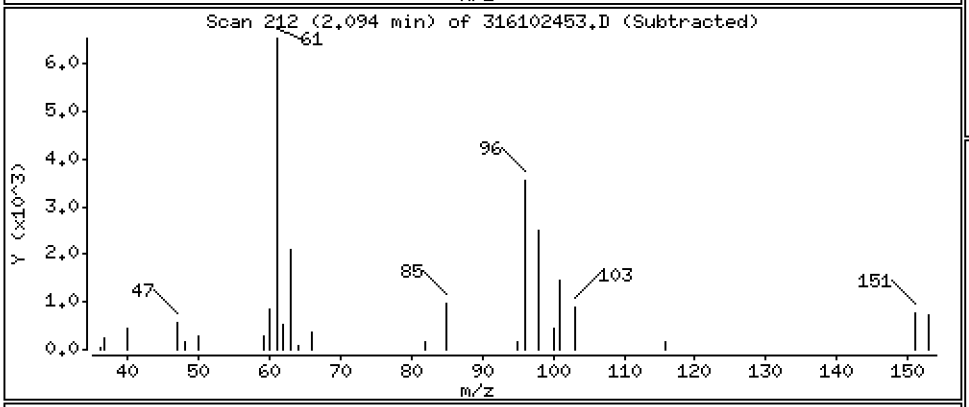
Sample Info: VSTD00.5;;1;1;8;;;

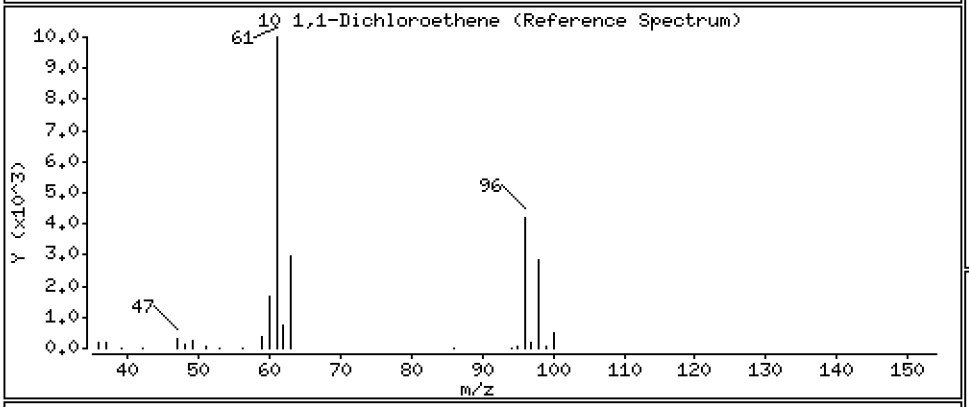
Purge Volume: 5.0 Operator: CJG

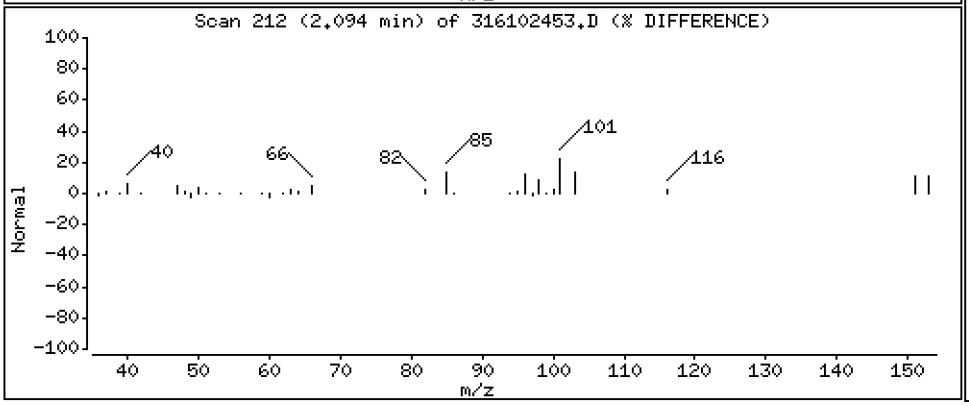
Column phase: DB-VRX Column diameter: 0.25

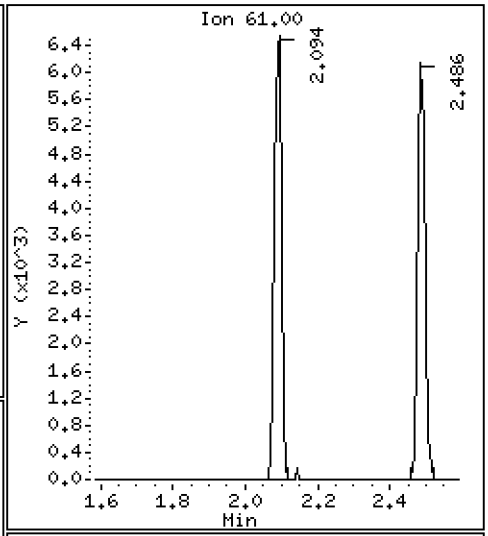
10 1,1-Dichloroethene Concentration: 0.667648 ug/L

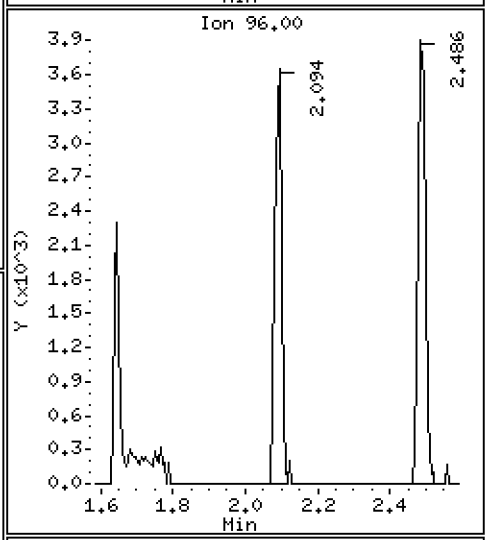


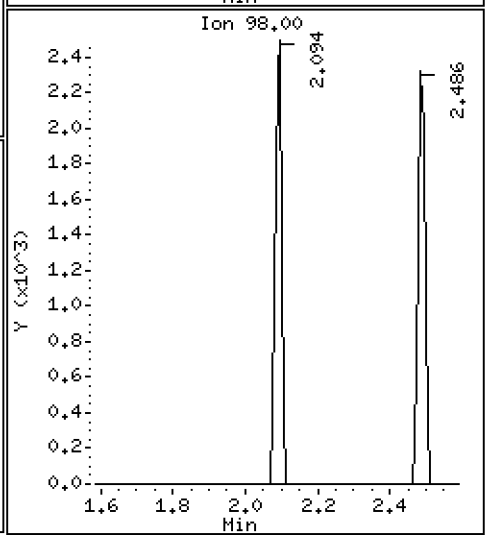












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 19

Date : 24-OCT-2016 23:25

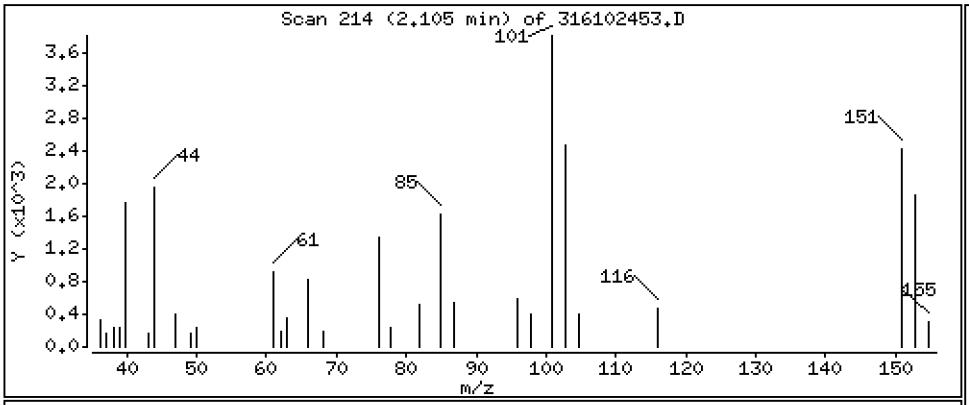
Client ID: Instrument: ms03.i

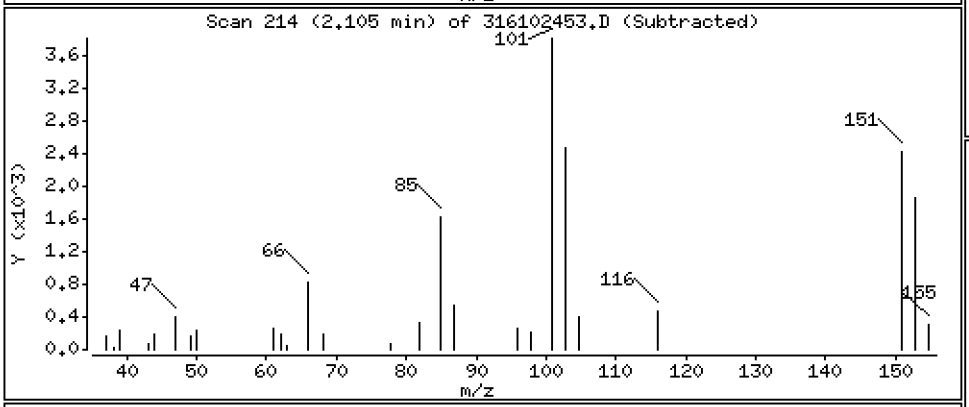
Sample Info: VSTD00.5;;1;1;8;;;

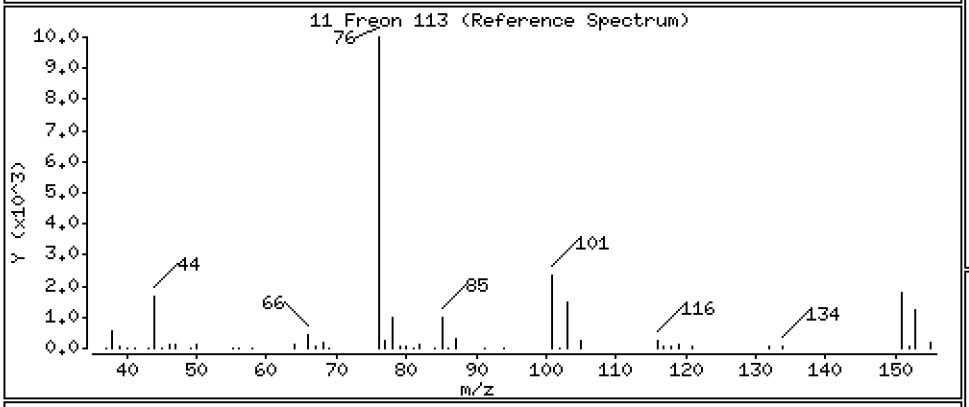
Purge Volume: 5.0 Operator: CJG

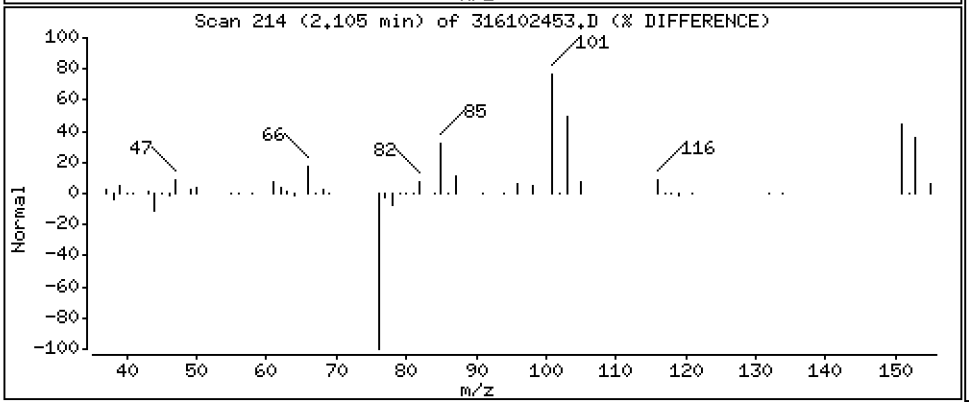
Column phase: DB-VRX Column diameter: 0.25

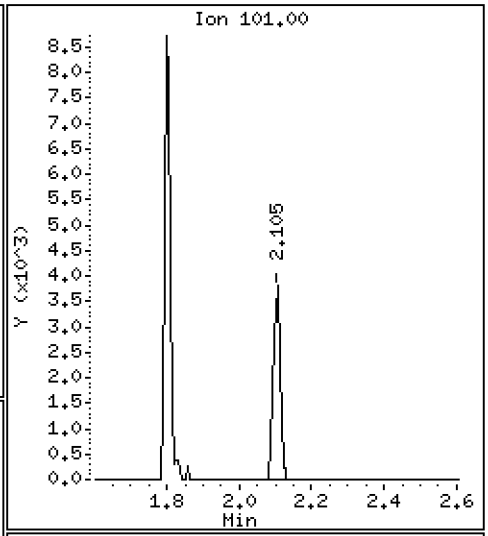
11 Freon 113 Concentration: 0.687634 ug/L

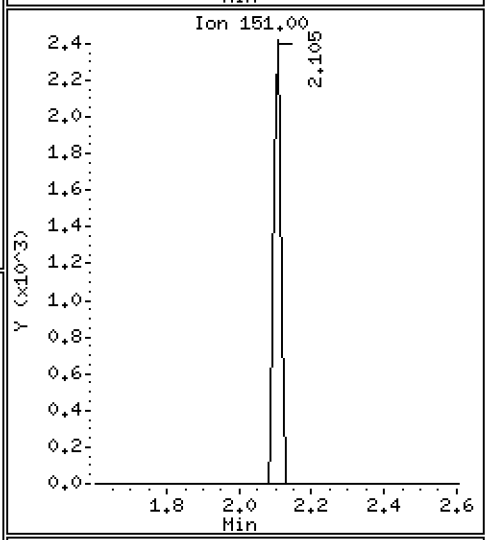


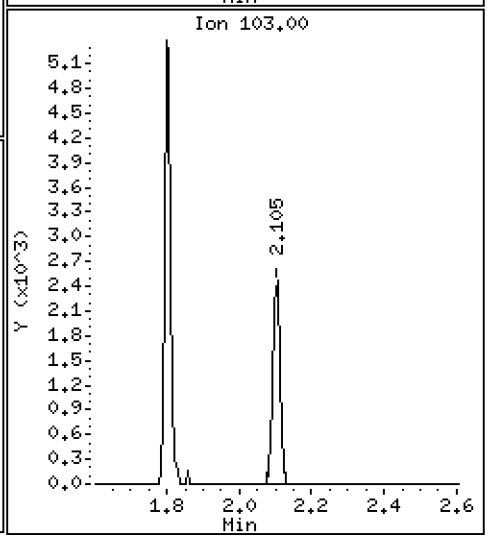












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 20

Date : 24-OCT-2016 23:25

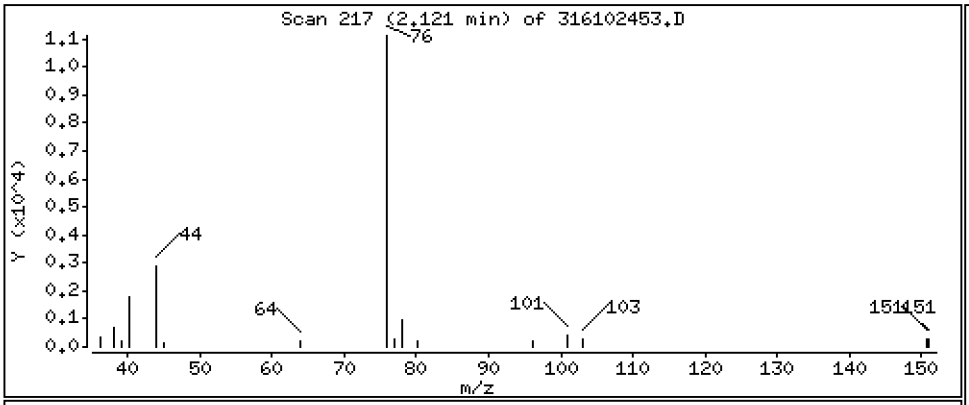
Client ID: Instrument: ms03.i

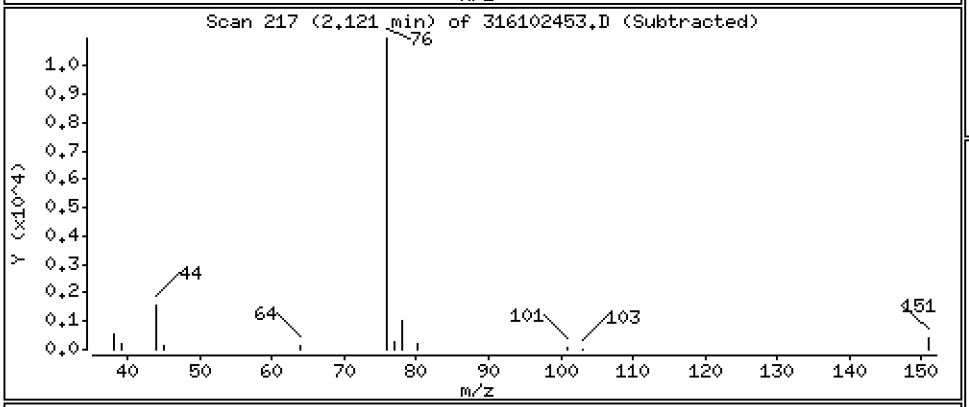
Sample Info: VSTD00.5;;1;1;8;;;

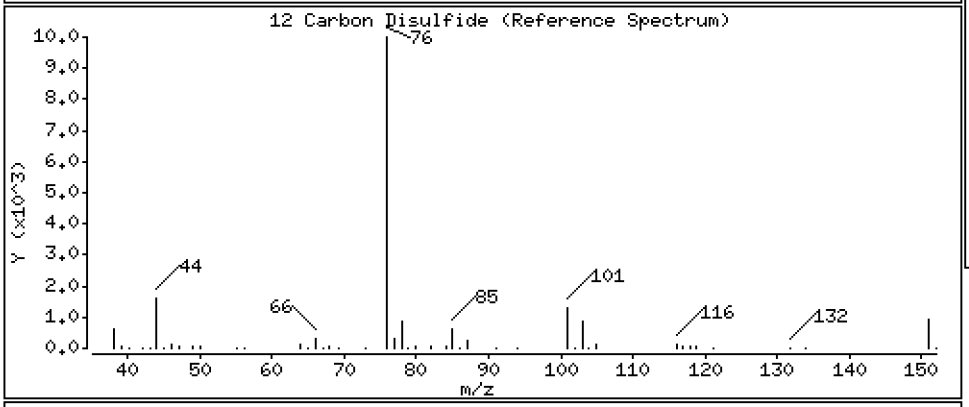
Purge Volume: 5.0 Operator: CJG

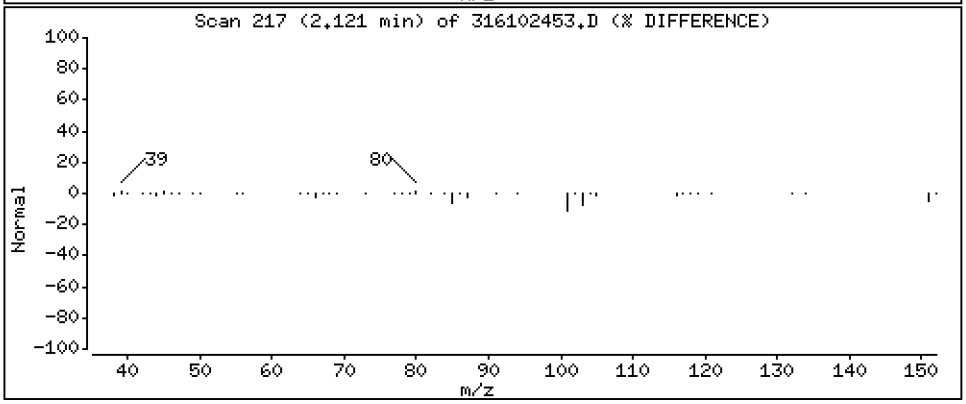
Column phase: DB-VRX Column diameter: 0.25

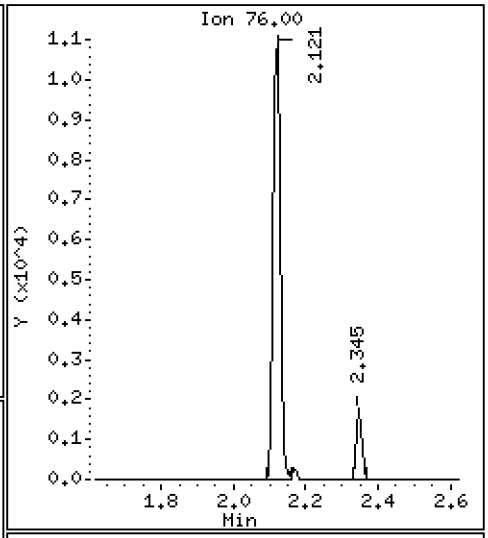
12 Carbon Disulfide Concentration: 0.613565 ug/L

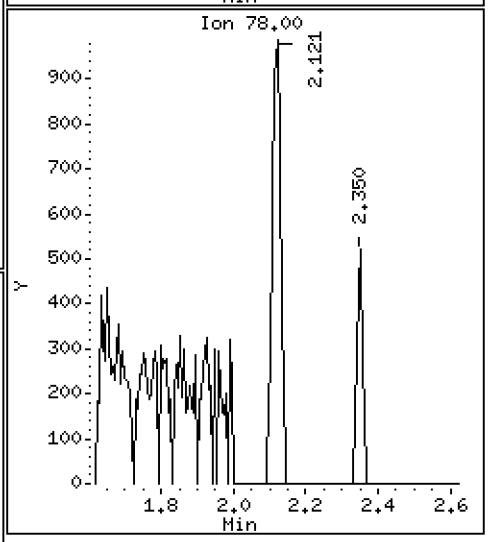












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 21

Date : 24-OCT-2016 23:25

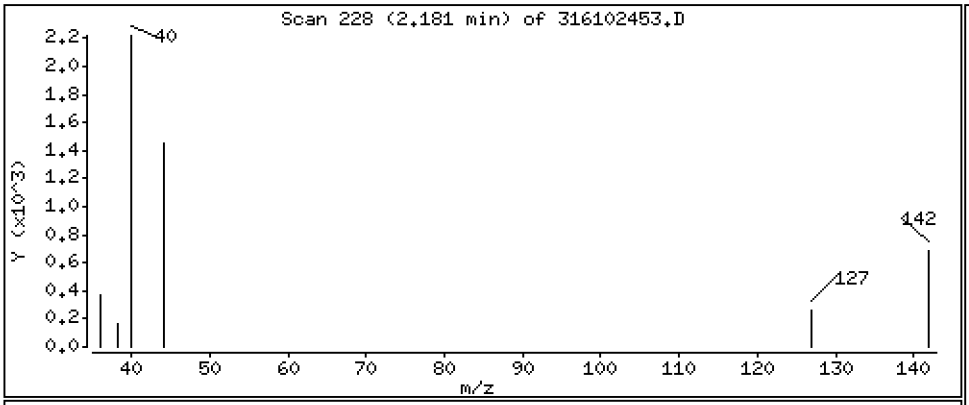
Client ID: Instrument: ms03.i

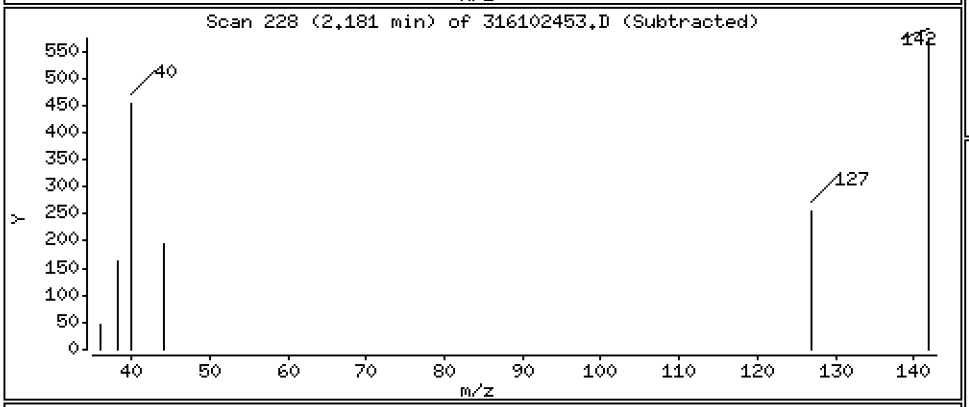
Sample Info: VSTD00.5;;1;1;8;;;

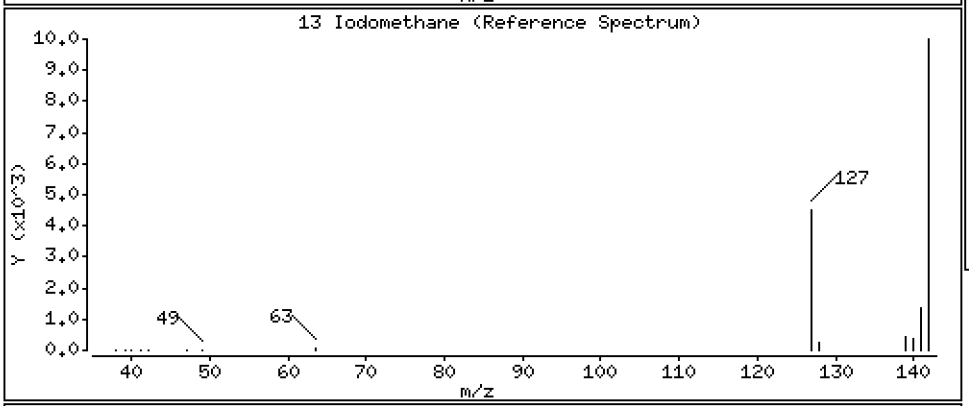
Purge Volume: 5.0 Operator: CJG

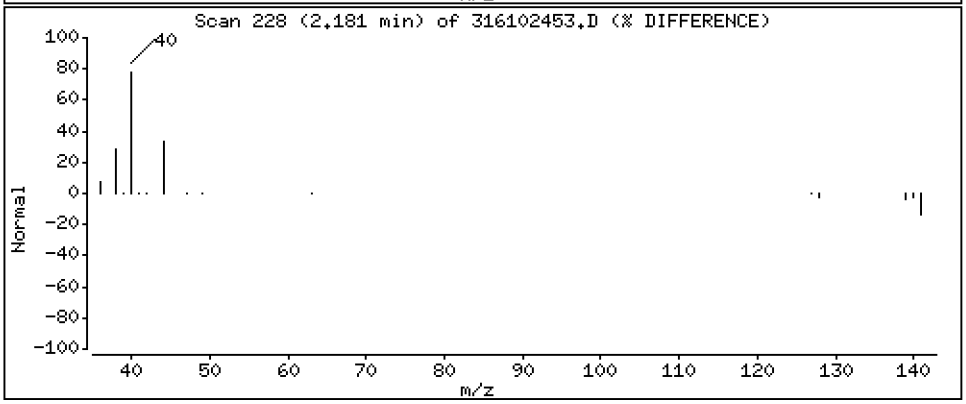
Column phase: DB-VRX Column diameter: 0.25

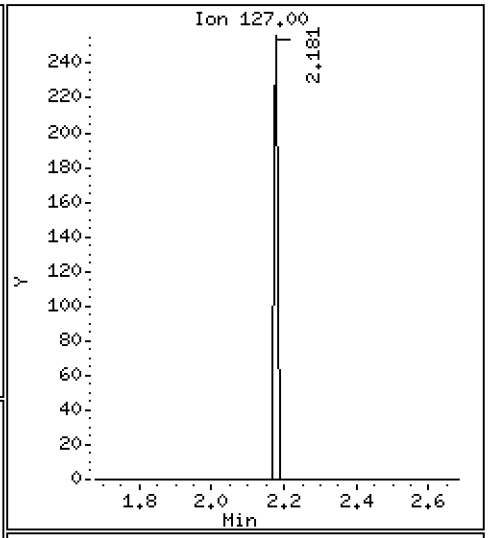
13 Iodomethane Concentration: 2.91993 ug/L

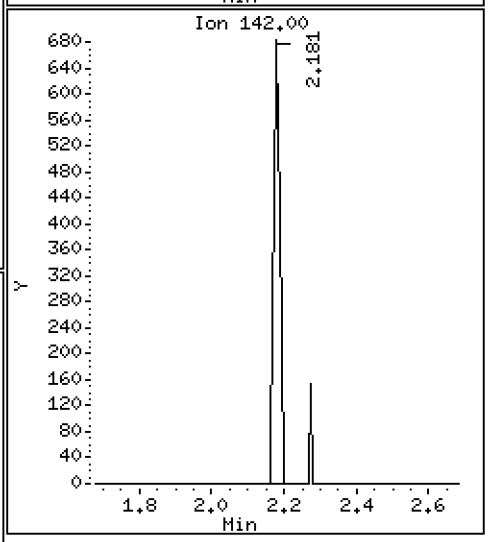












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 22

Date : 24-OCT-2016 23:25

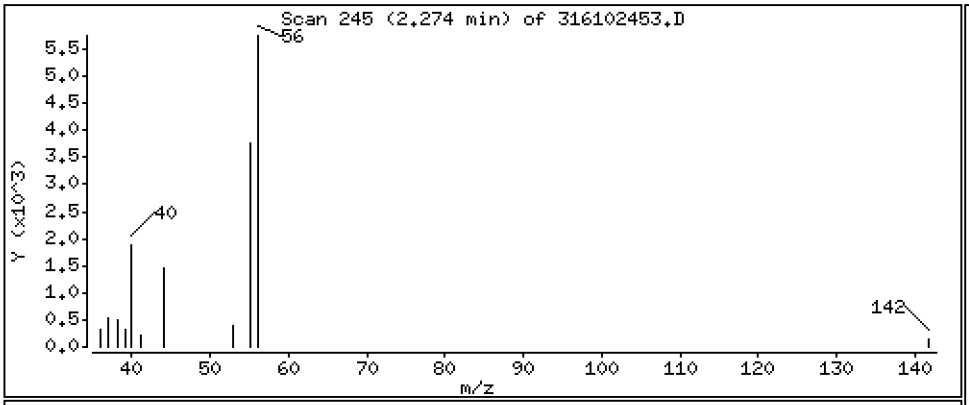
Client ID: Instrument: ms03.i

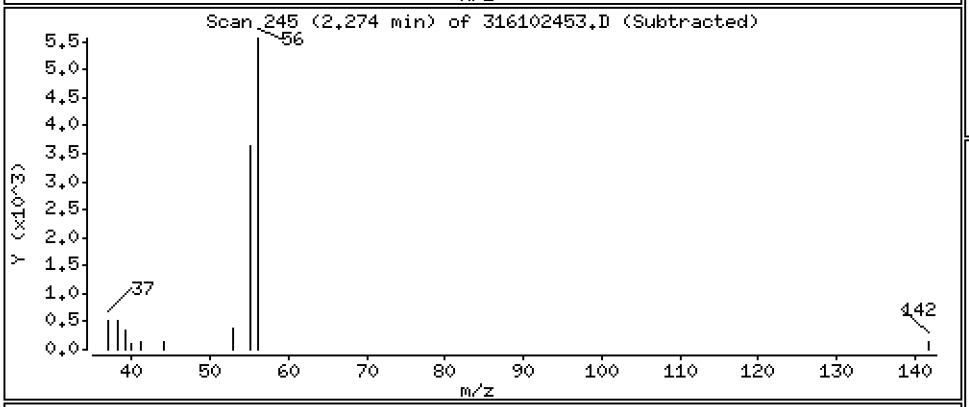
Sample Info: VSTD00.5;;1;1;8;;;

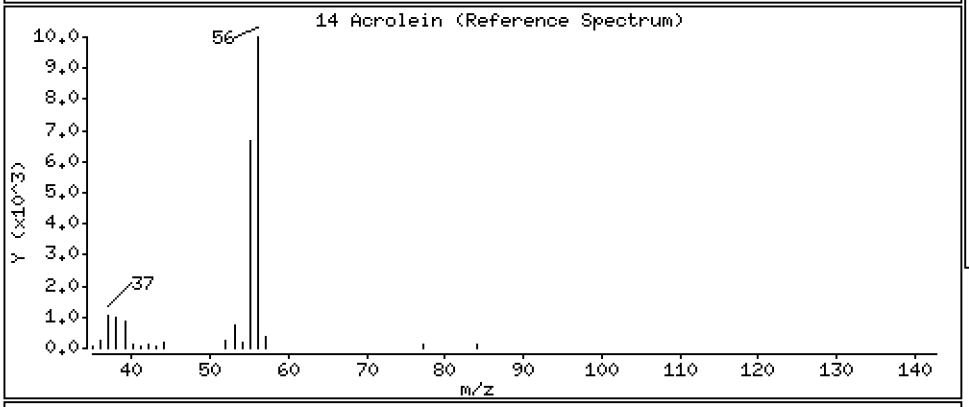
Purge Volume: 5.0 Operator: CJG

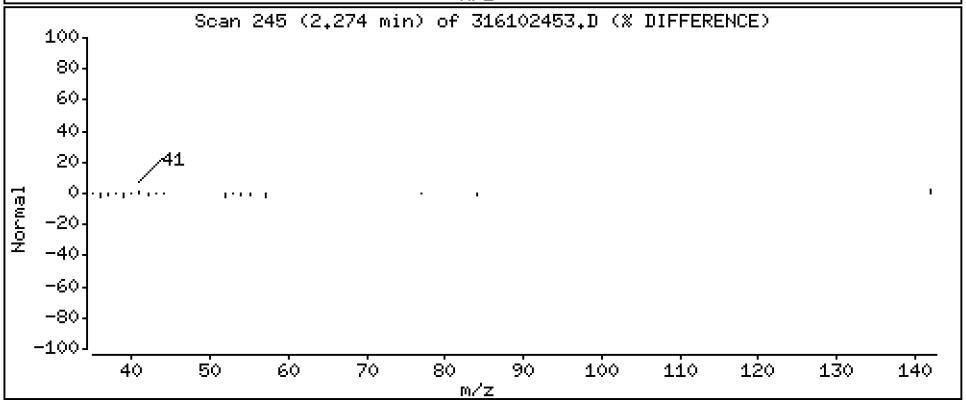
Column phase: DB-VRX Column diameter: 0.25

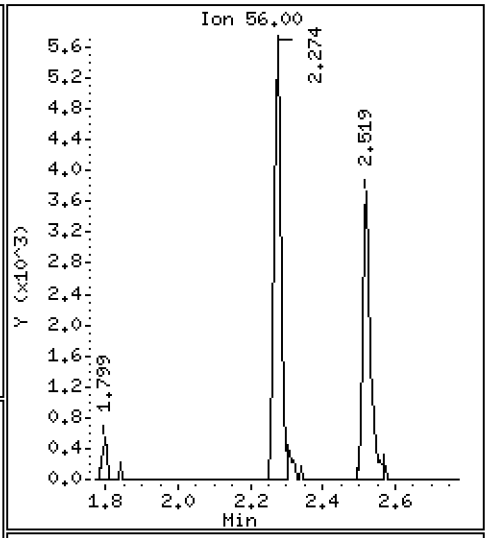
14 Acrolein Concentration: 5.45589 ug/L

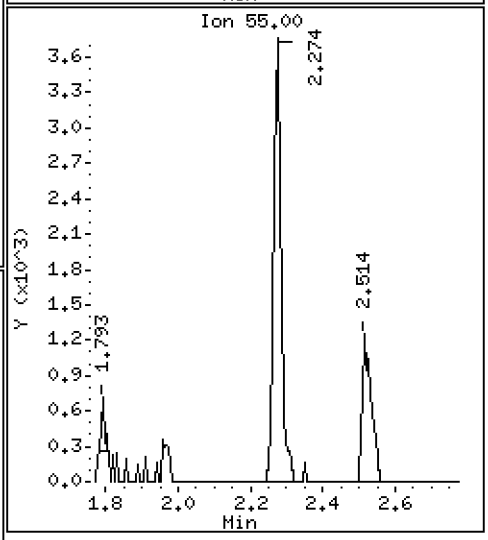












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 23

Date : 24-OCT-2016 23:25

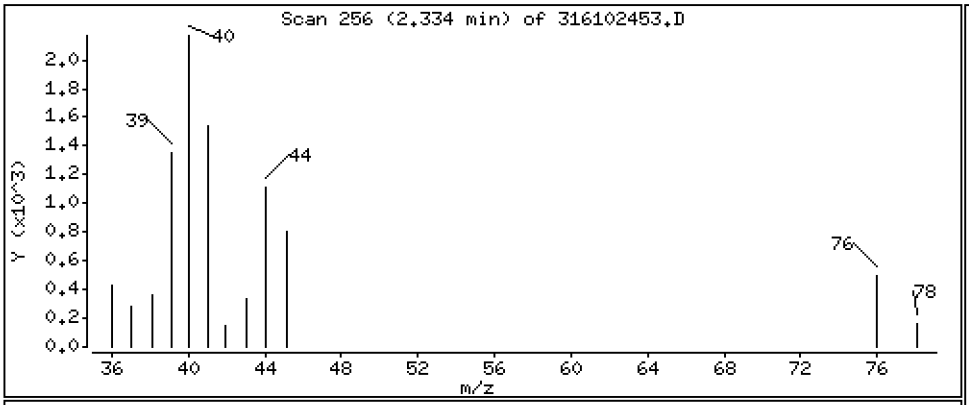
Client ID: Instrument: ms03.i

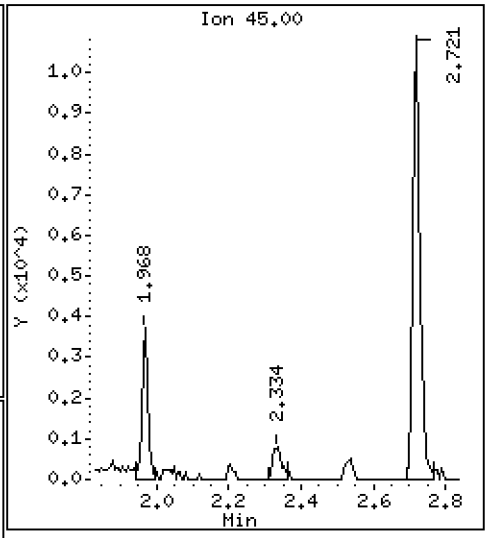
Sample Info: VSTD00.5;;1;1;8;;;

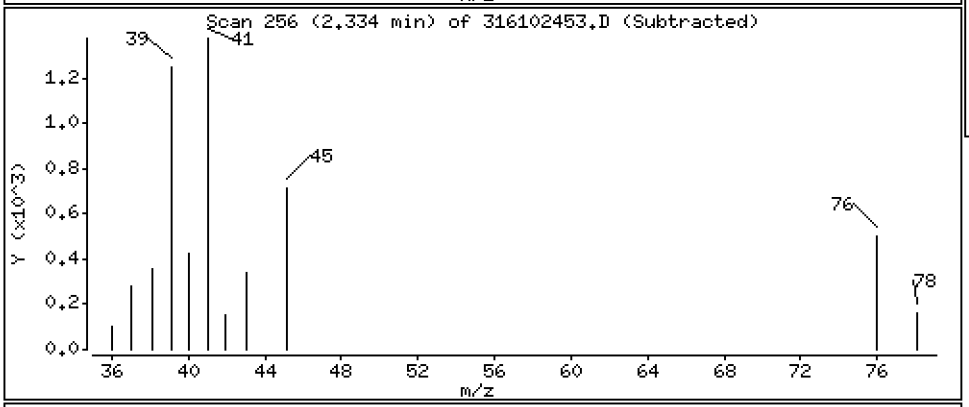
Purge Volume: 5.0 Operator: CJG

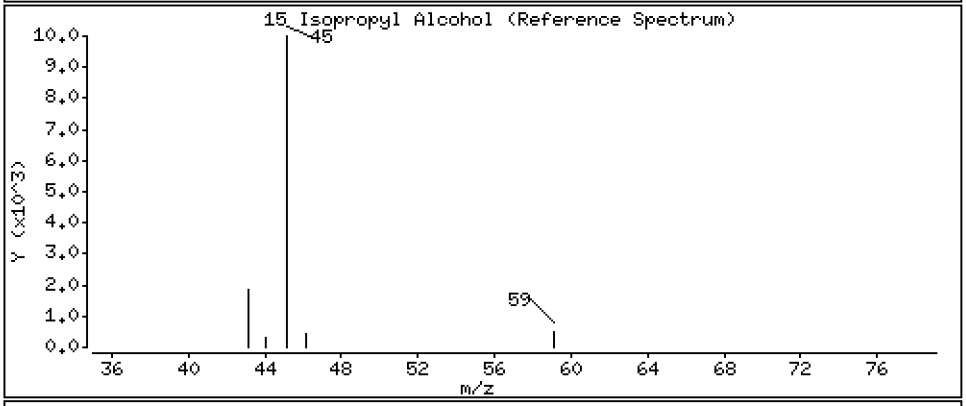
Column phase: DB-VRX Column diameter: 0.25

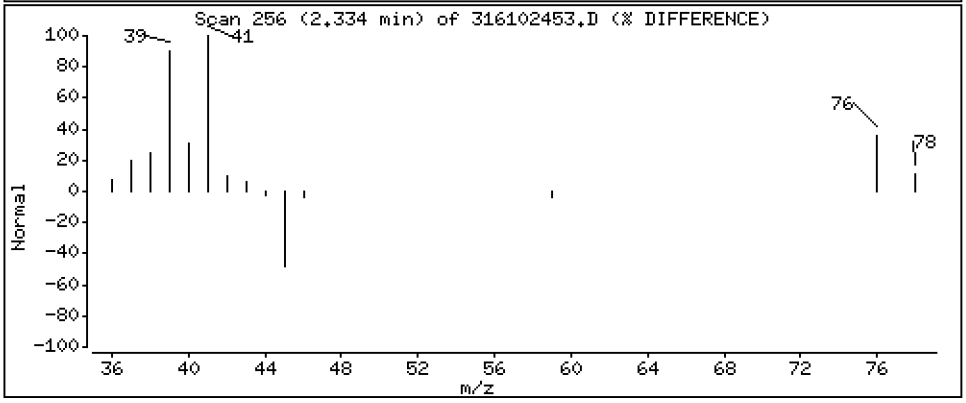
15 Isopropyl Alcohol Concentration: 4.62437 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 24

Date : 24-OCT-2016 23:25

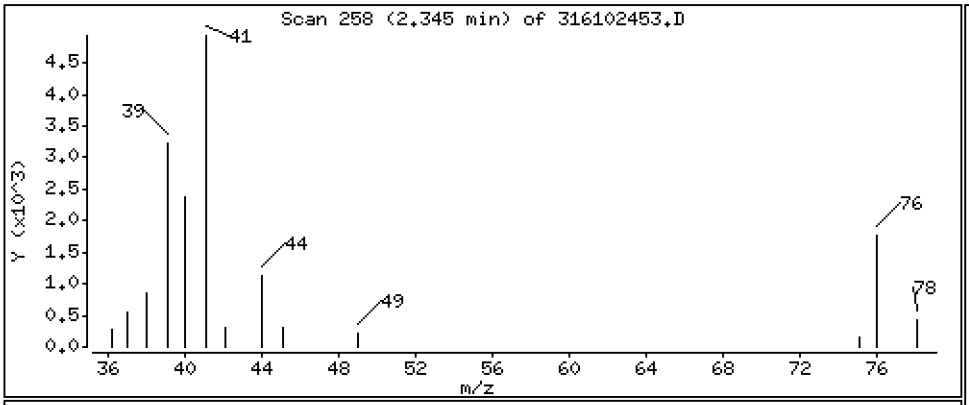
Client ID: Instrument: ms03.i

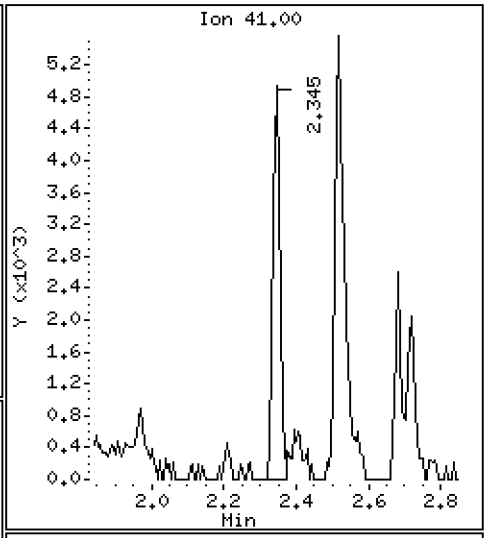
Sample Info: VSTD00.5;;1;1;8;;;

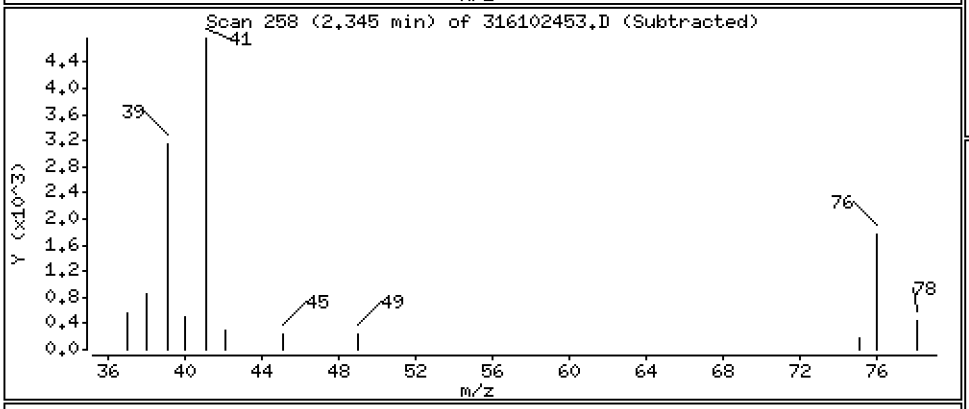
Purge Volume: 5.0 Operator: CJG

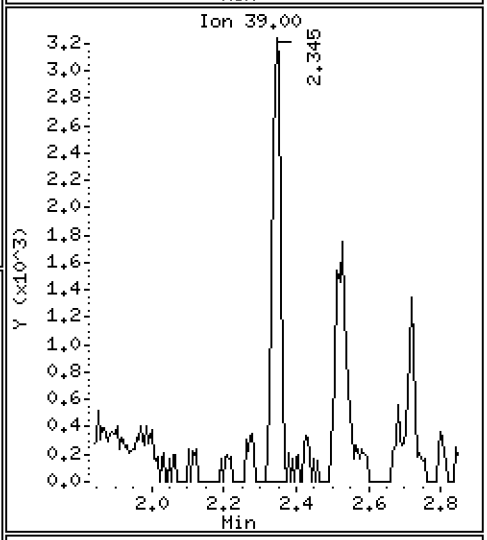
Column phase: DB-VRX Column diameter: 0.25

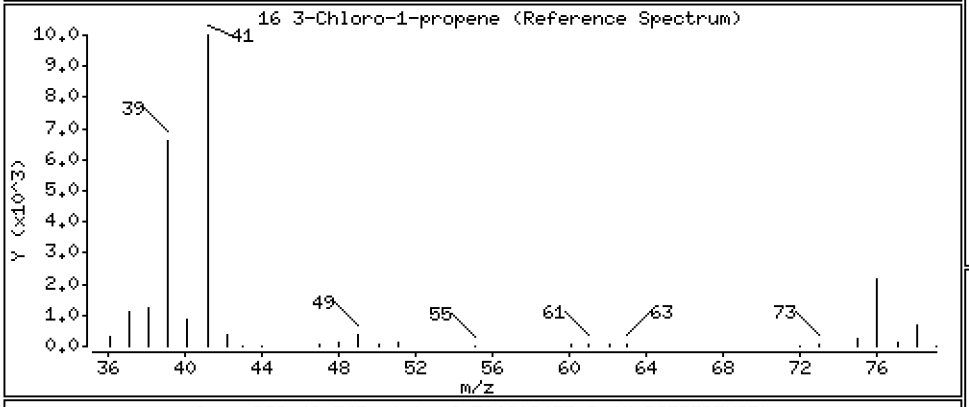
16 3-Chloro-1-propene Concentration: 0.504444 ug/L

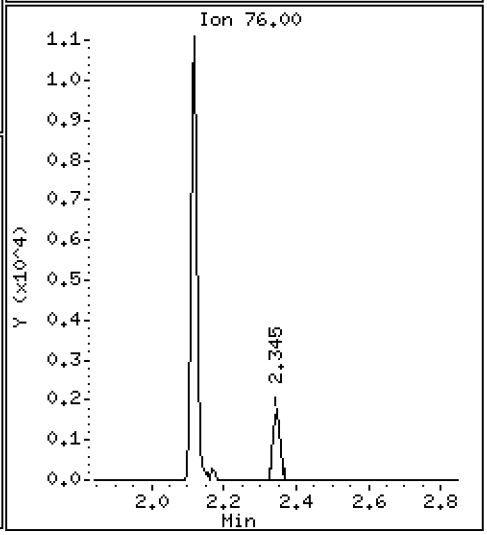


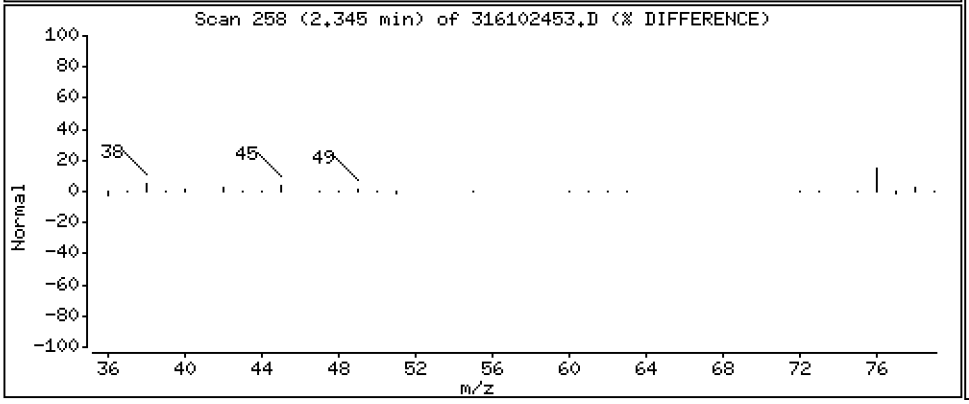












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 25

Date : 24-OCT-2016 23:25

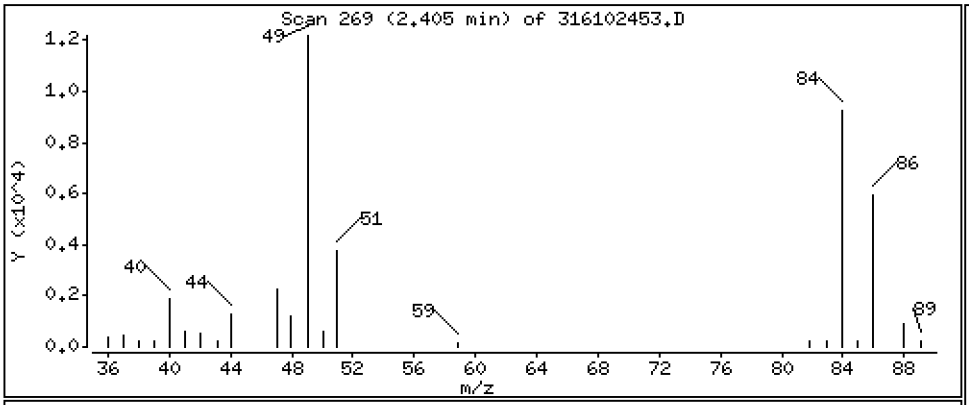
Client ID: Instrument: ms03.i

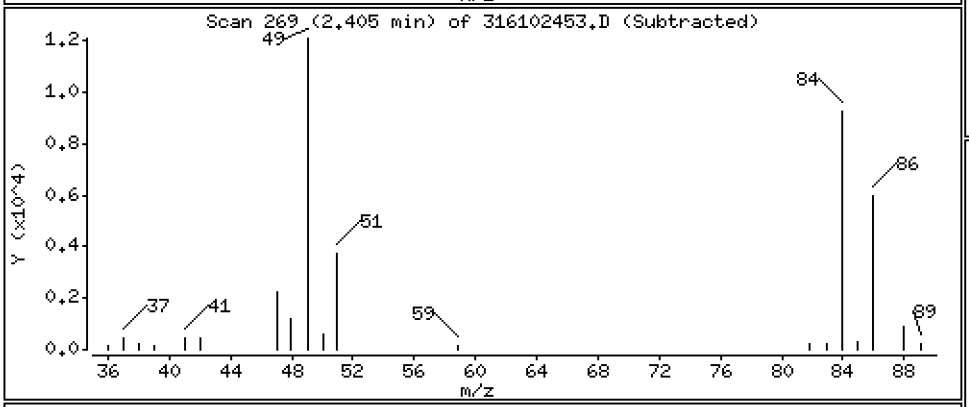
Sample Info: VSTD00.5;;1;1;8;;;

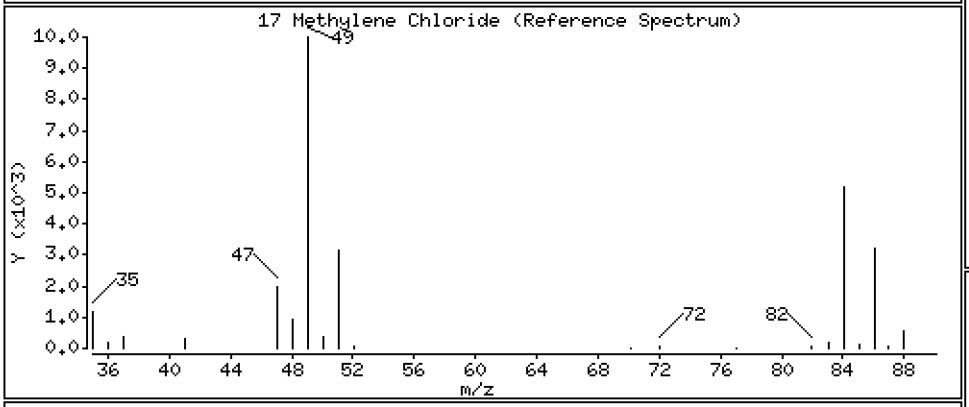
Purge Volume: 5.0 Operator: CJG

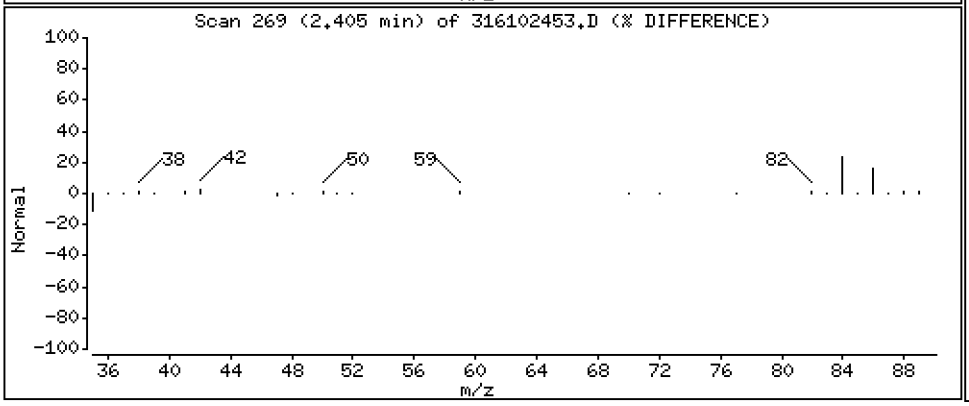
Column phase: DB-VRX Column diameter: 0.25

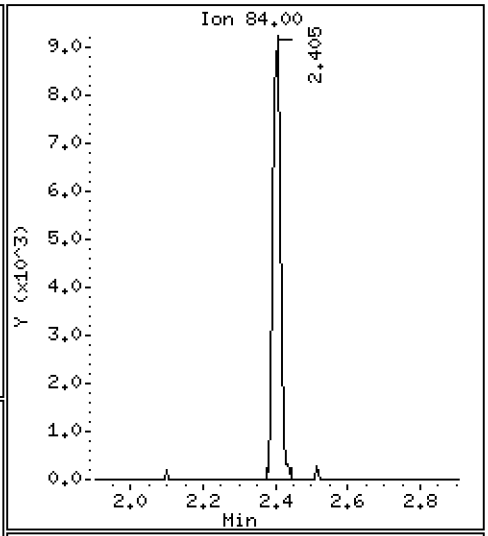
17 Methylene Chloride Concentration: 0.309773 ug/L

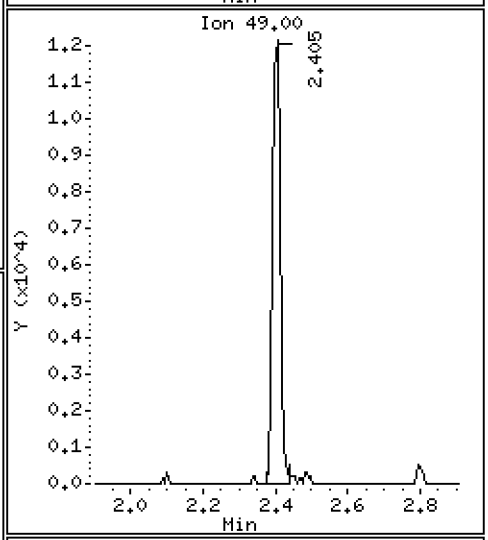


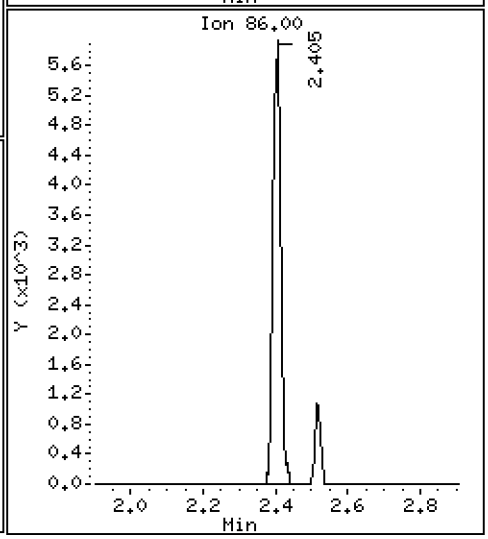












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 26

Date : 24-OCT-2016 23:25

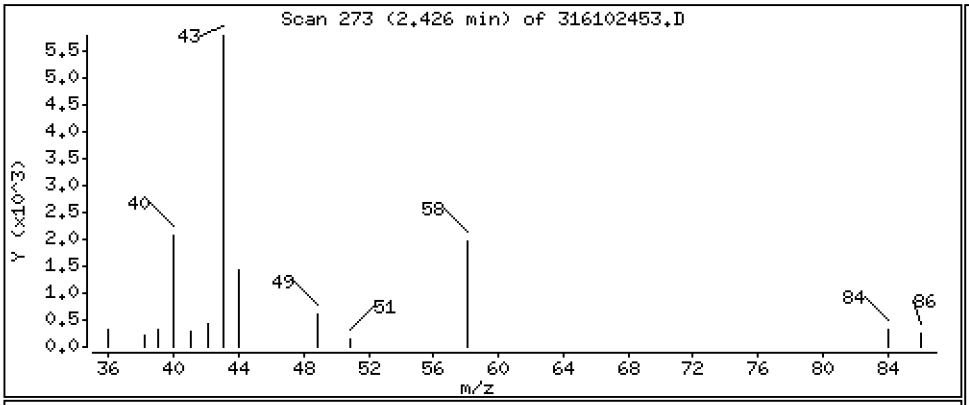
Client ID: Instrument: ms03.i

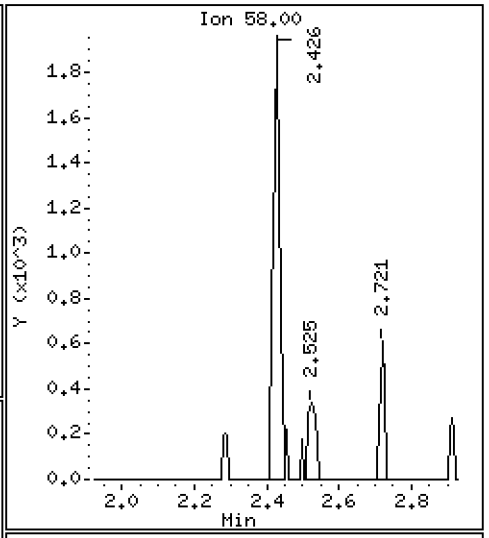
Sample Info: VSTD00.5;;1;1;8;;;

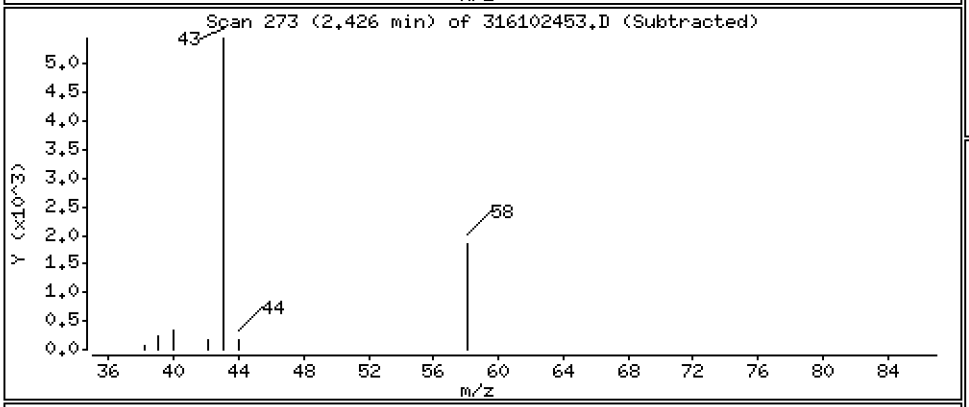
Purge Volume: 5.0 Operator: CJG

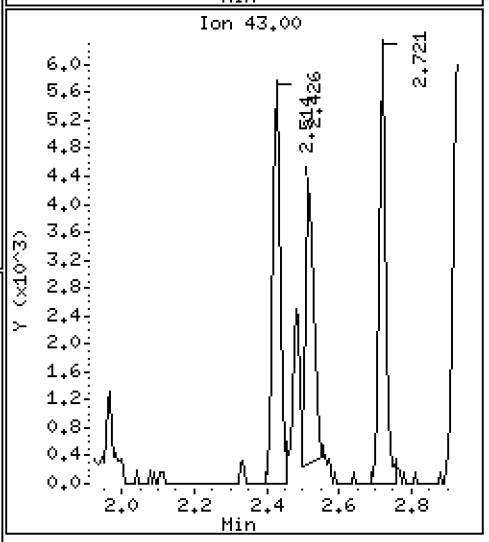
Column phase: DB-VRX Column diameter: 0.25

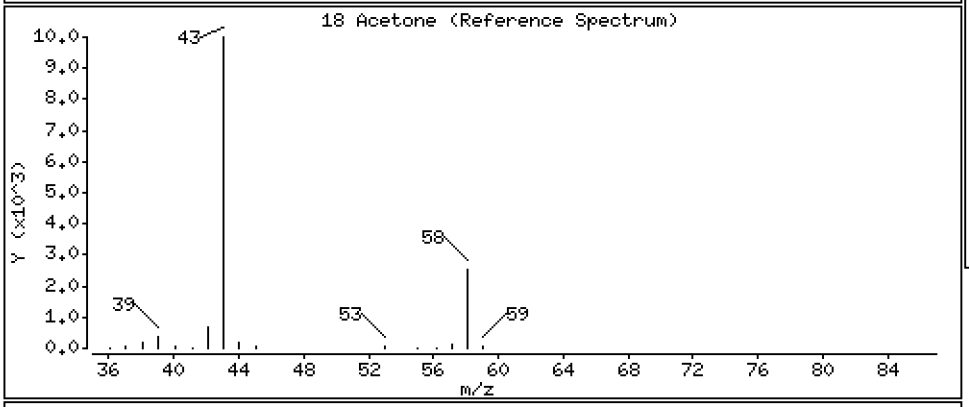
18 Acetone Concentration: 3.41282 ug/L

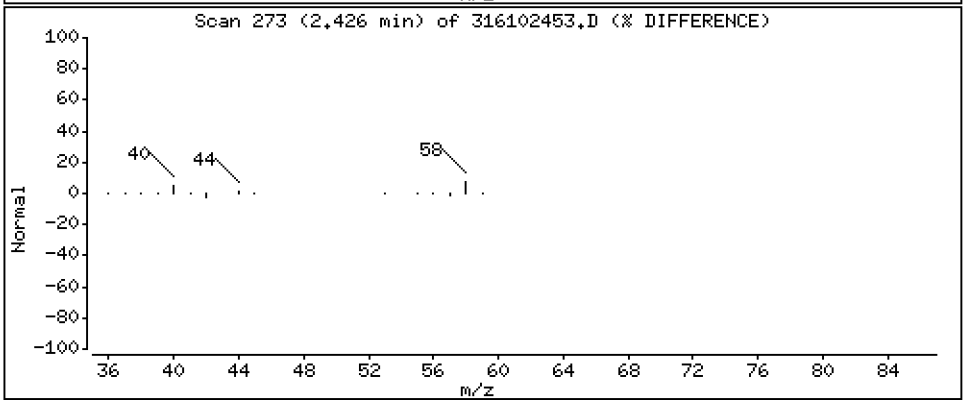












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 27

Date : 24-OCT-2016 23:25

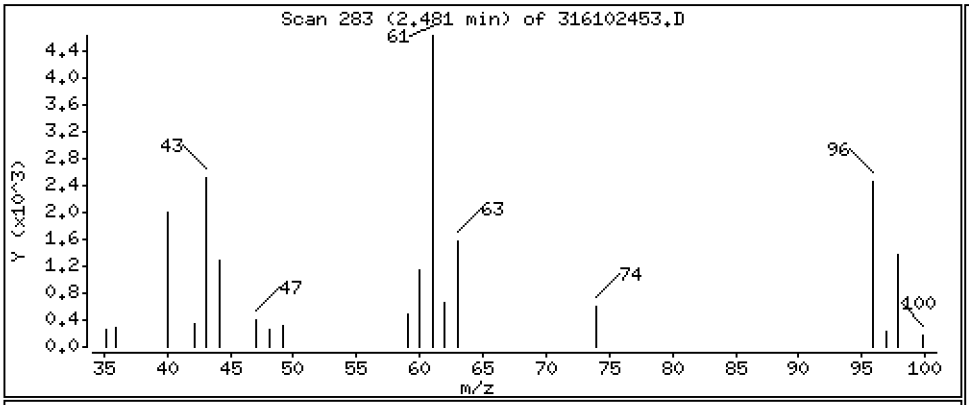
Client ID: Instrument: ms03.i

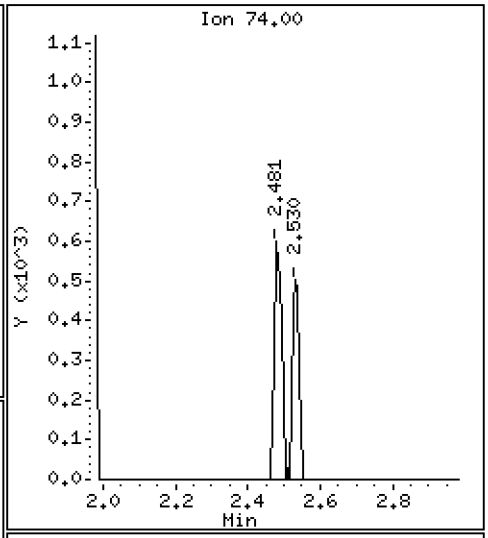
Sample Info: VSTD00.5;;1;1;8;;;

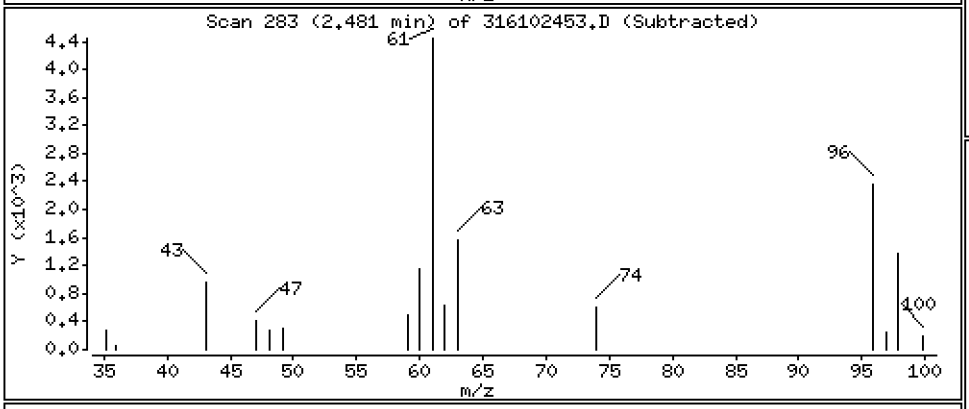
Purge Volume: 5.0 Operator: CJG

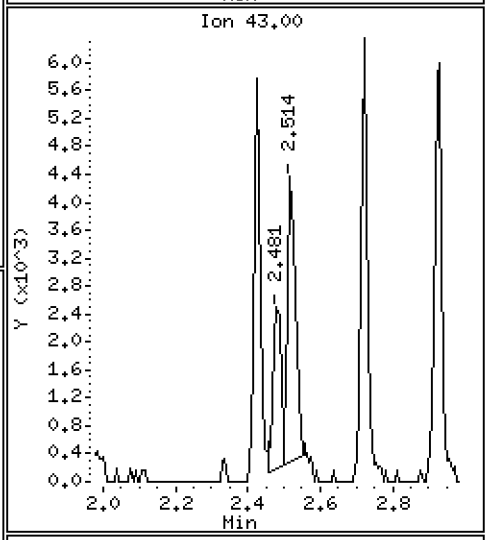
Column phase: DB-VRX Column diameter: 0.25

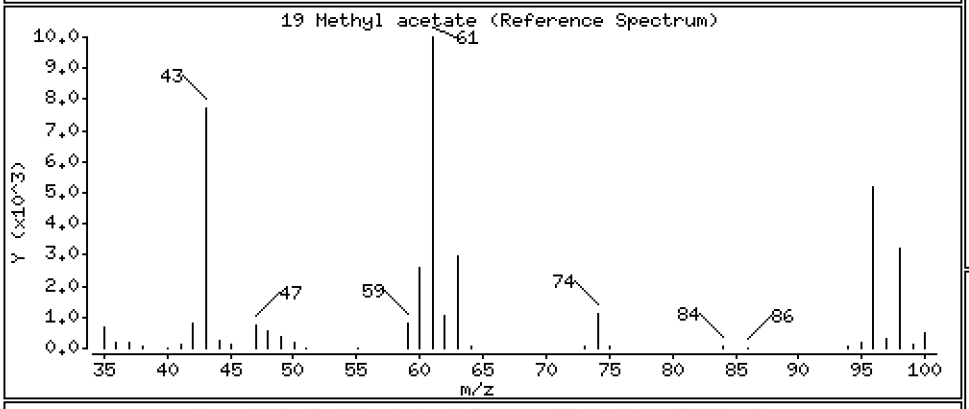
19 Methyl acetate Concentration: 0.562208 ug/L

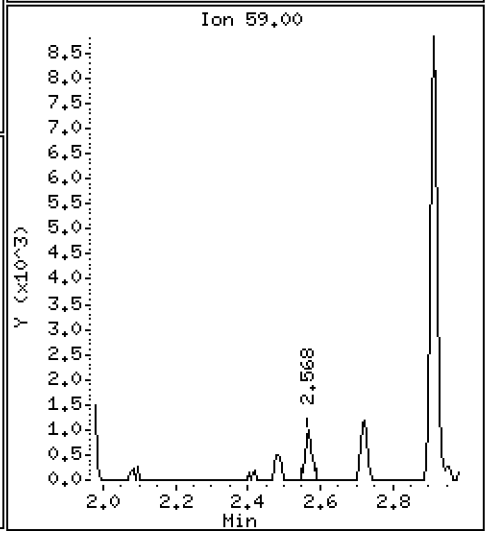


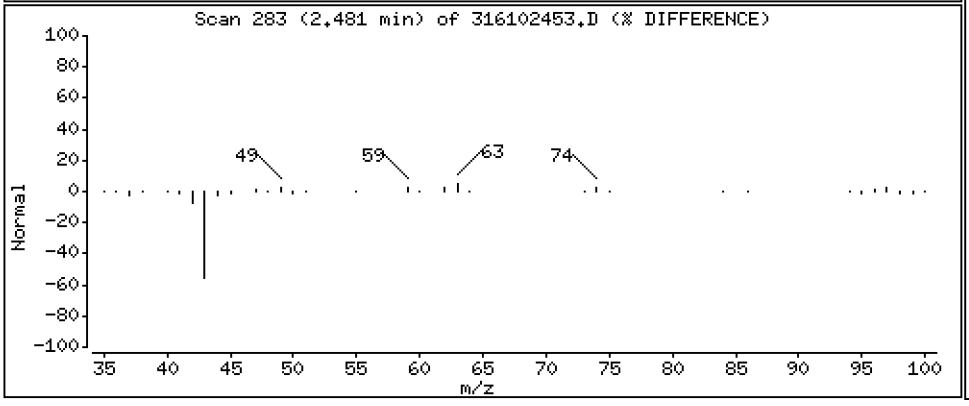












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 28

Date : 24-OCT-2016 23:25

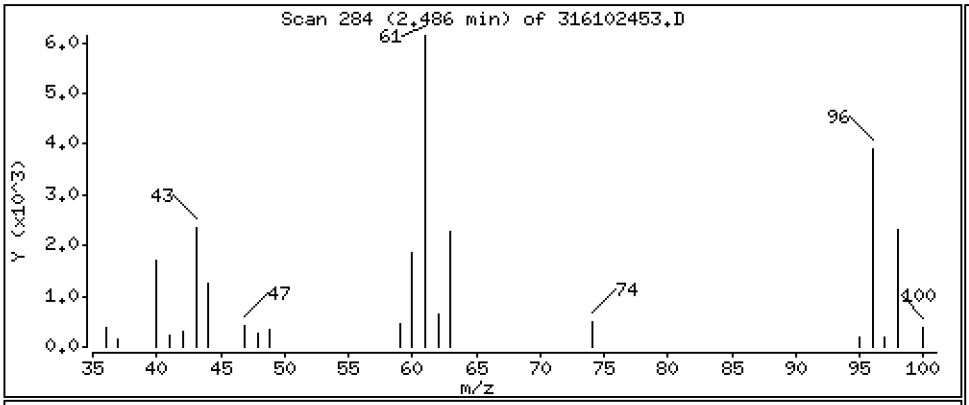
Client ID: Instrument: ms03.i

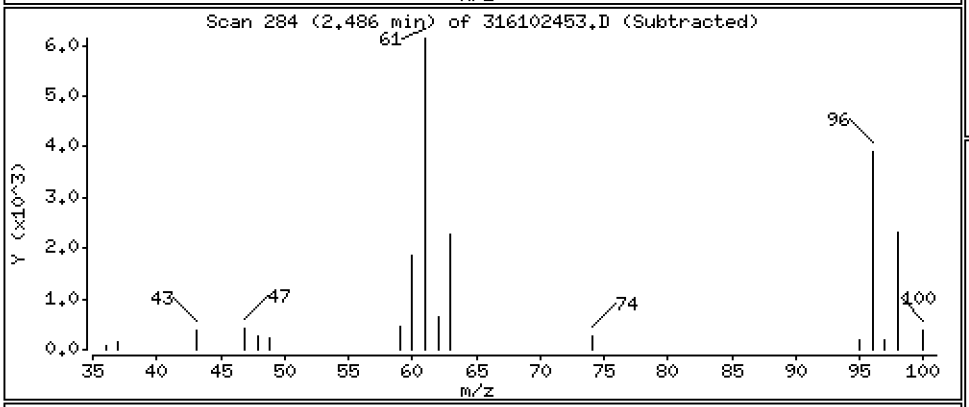
Sample Info: VSTD00.5;;1;1;8;;;

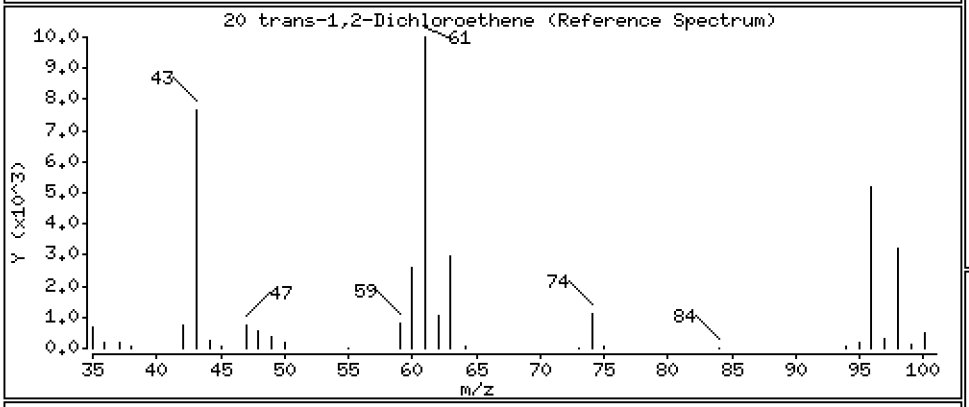
Purge Volume: 5.0 Operator: CJG

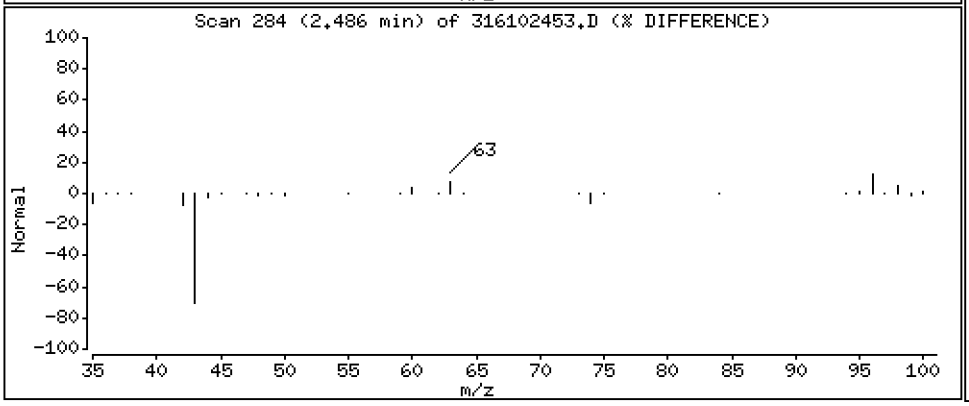
Column phase: DB-VRX Column diameter: 0.25

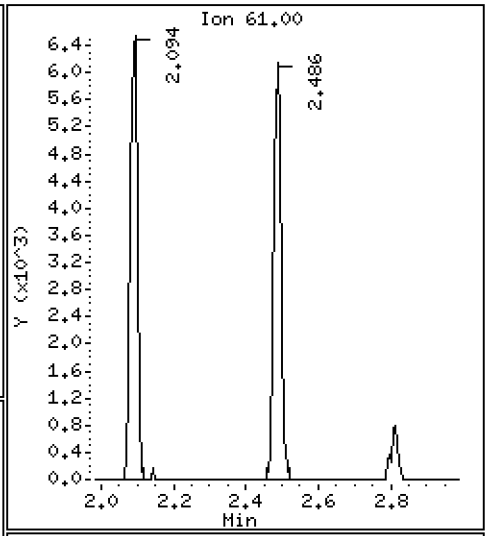
20 trans-1,2-Dichloroethene Concentration: 0.635506 ug/L

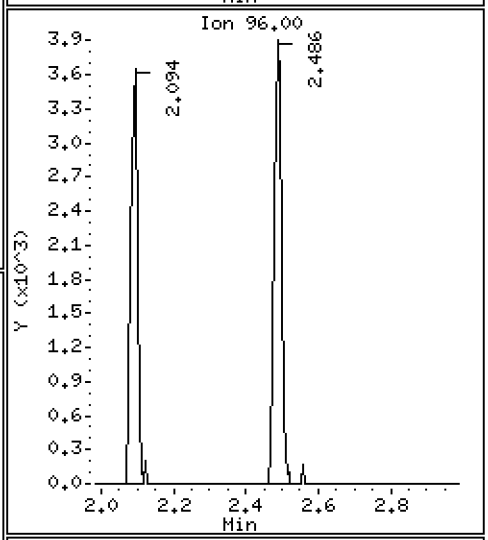


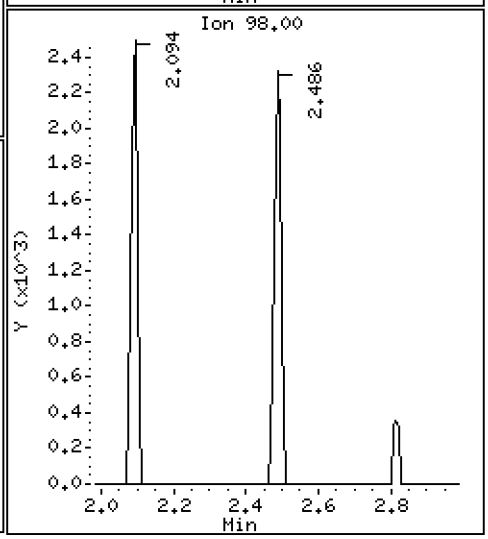












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 29

Date : 24-OCT-2016 23:25

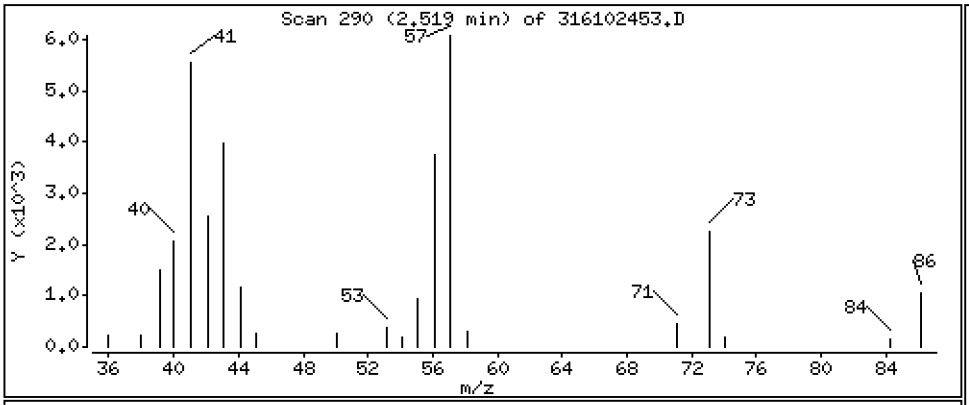
Client ID: Instrument: ms03.i

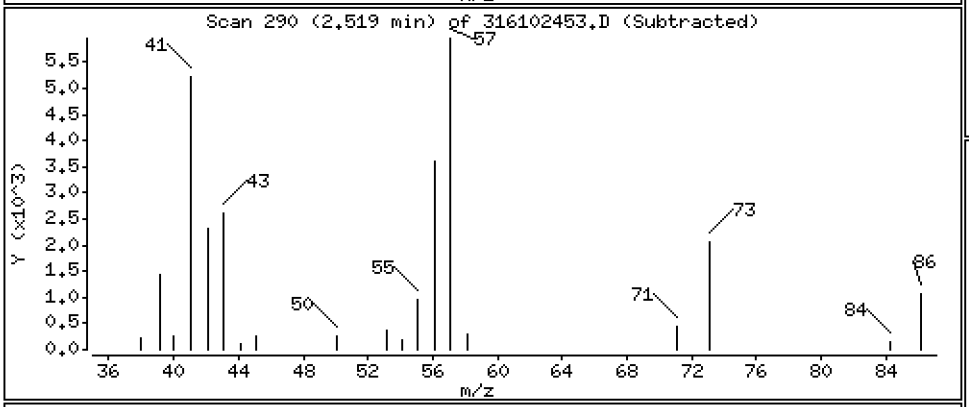
Sample Info: VSTD00.5;;1;1;8;;;

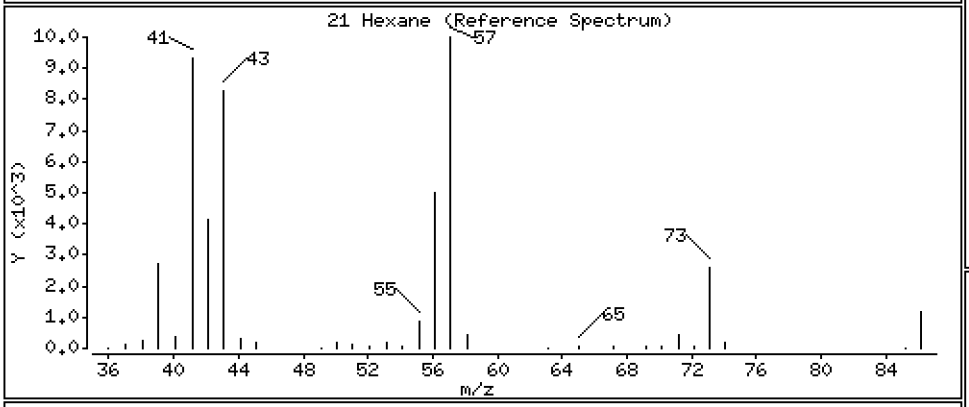
Purge Volume: 5.0 Operator: CJG

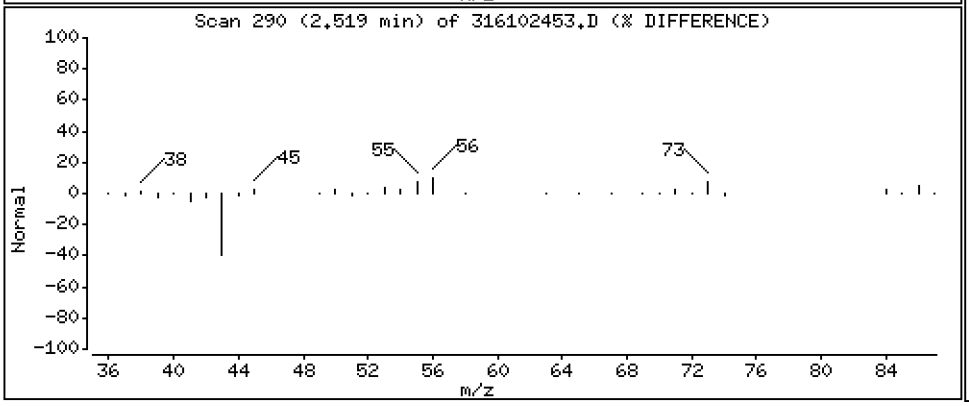
Column phase: DB-VRX Column diameter: 0.25

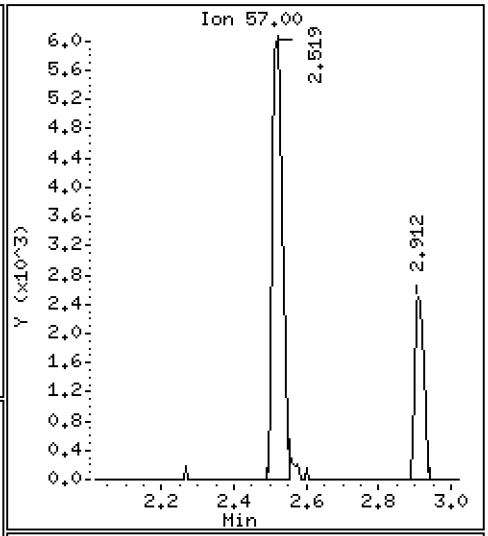
21 Hexane Concentration: 0.631555 ug/L

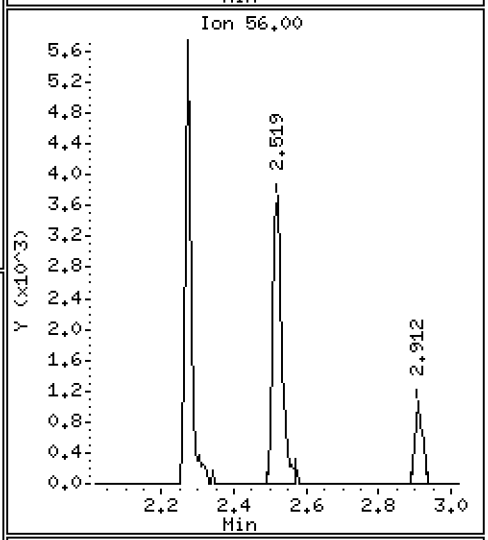


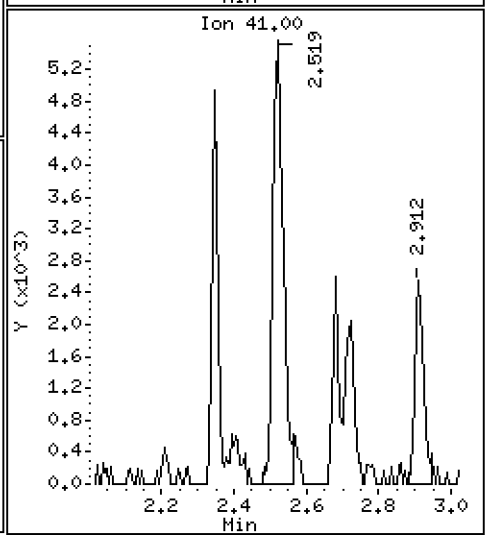












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 30

Date : 24-OCT-2016 23:25

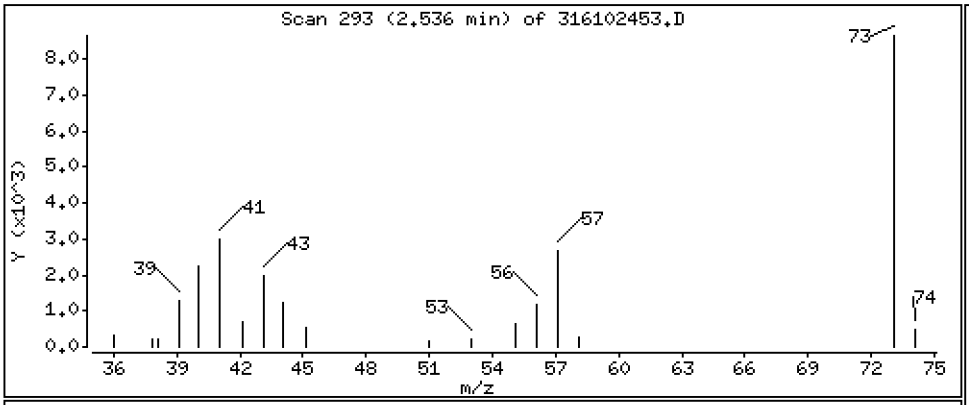
Client ID: Instrument: ms03.i

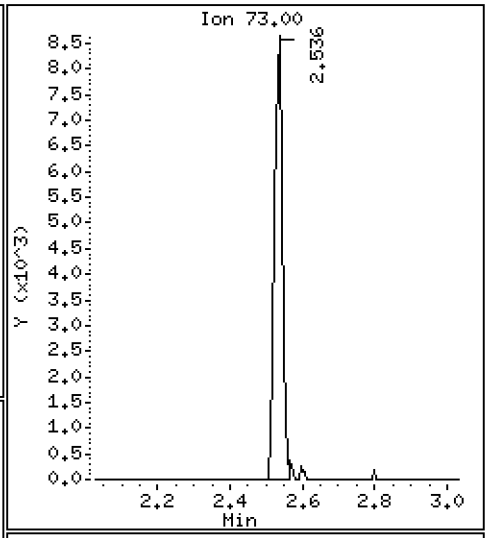
Sample Info: VSTD00.5;;1;1;8;;;

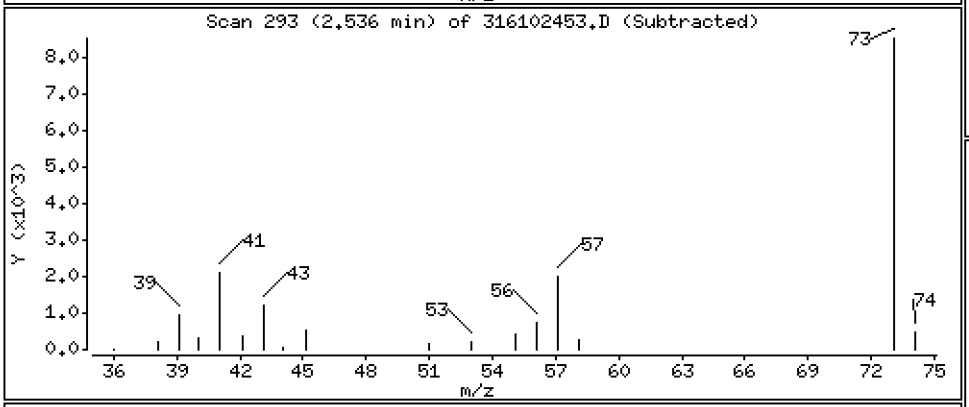
Purge Volume: 5.0 Operator: CJG

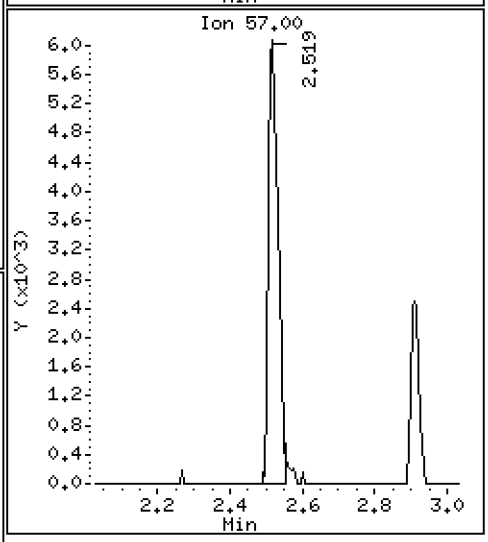
Column phase: DB-VRX Column diameter: 0.25

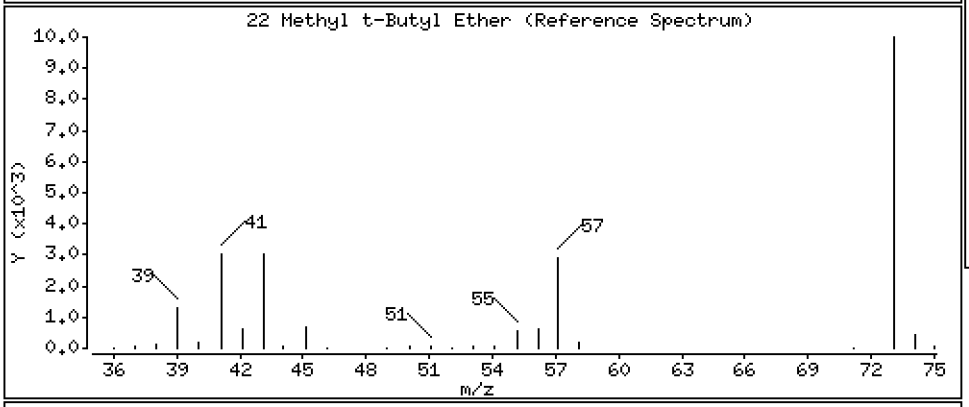
22 Methyl t-Butyl Ether Concentration: 0.554495 ug/L

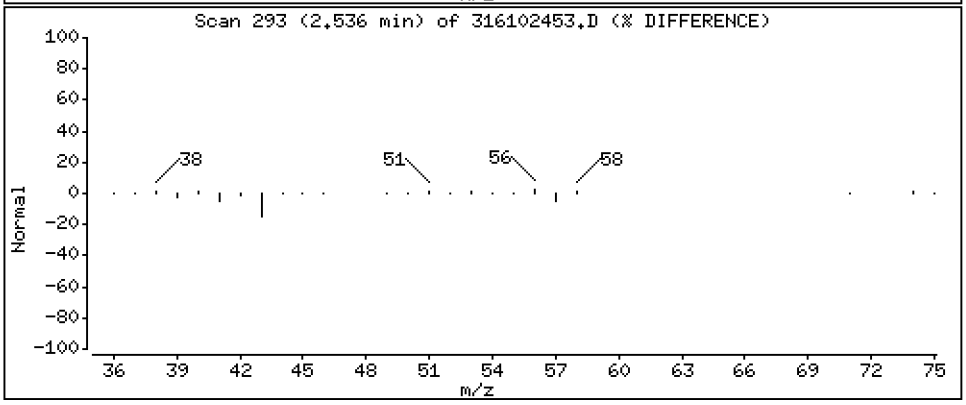












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 31

Date : 24-OCT-2016 23:25

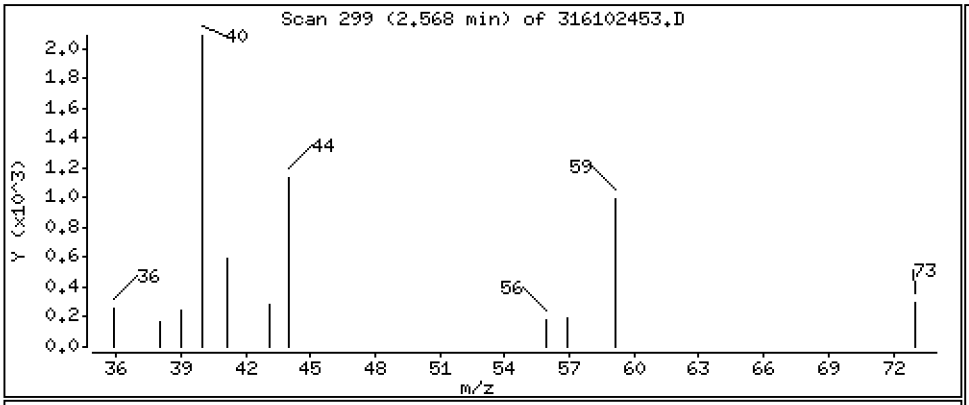
Client ID: Instrument: ms03.i

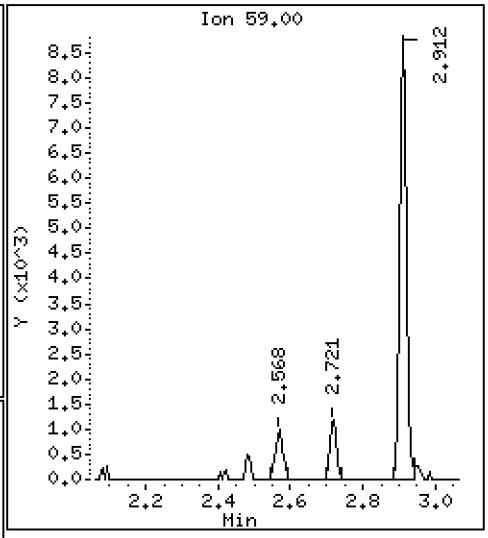
Sample Info: VSTD00.5;;1;1;8;;;

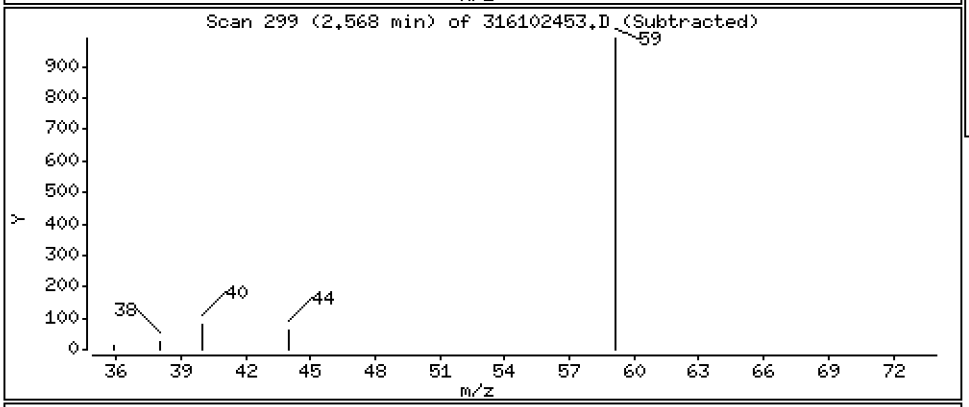
Purge Volume: 5.0 Operator: CJG

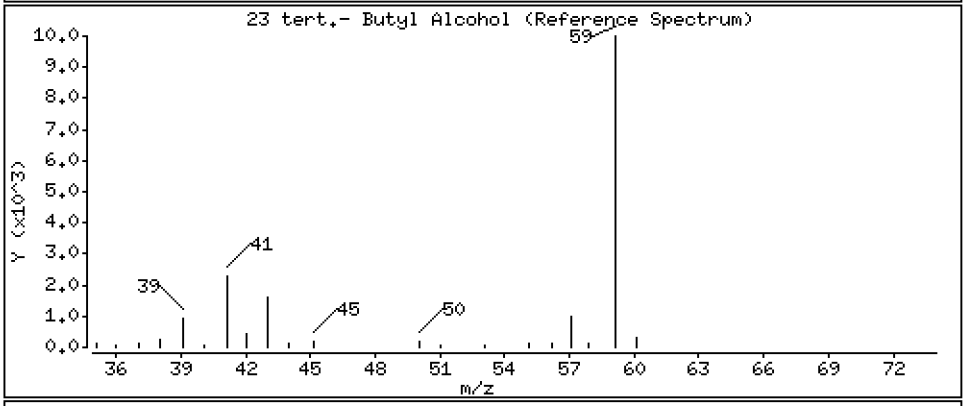
Column phase: DB-VRX Column diameter: 0.25

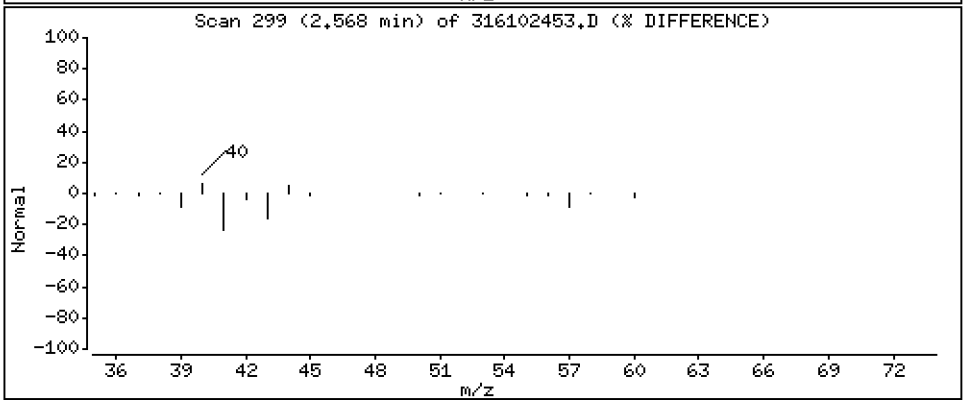
23 tert.- Butyl Alcohol Concentration: 2.85415 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 32

Date : 24-OCT-2016 23:25

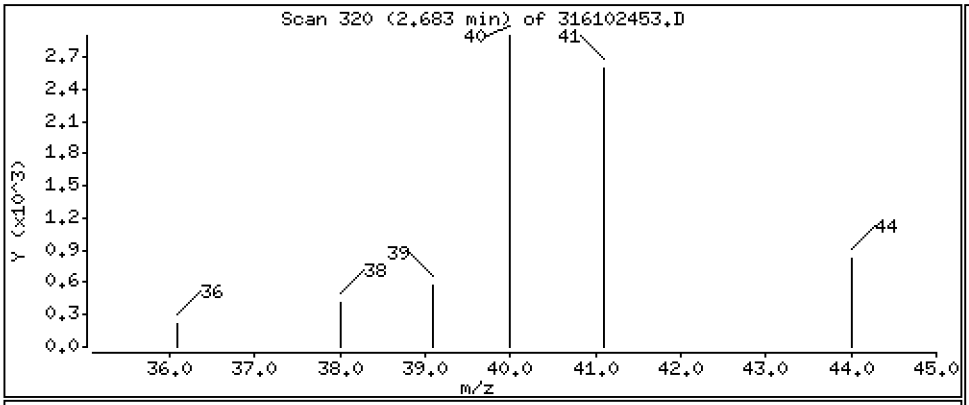
Client ID: Instrument: ms03.i

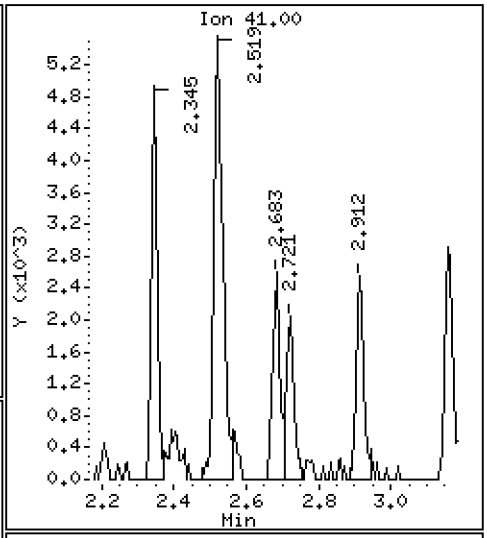
Sample Info: VSTD00.5;;1;1;8;;;

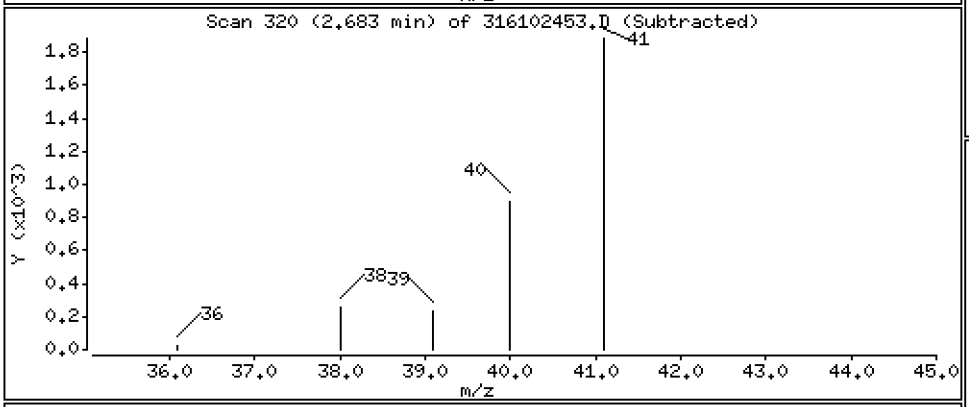
Purge Volume: 5.0 Operator: CJG

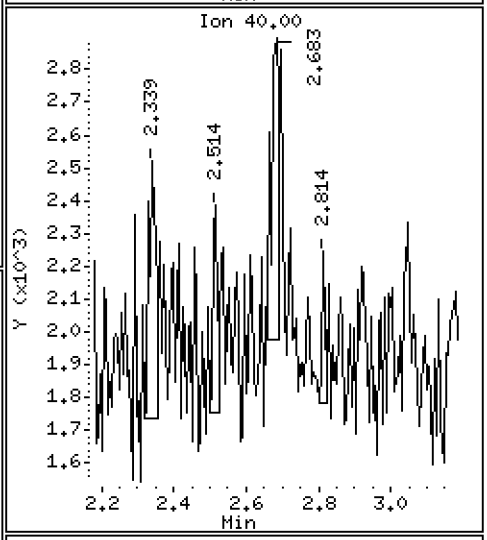
Column phase: DB-VRX Column diameter: 0.25

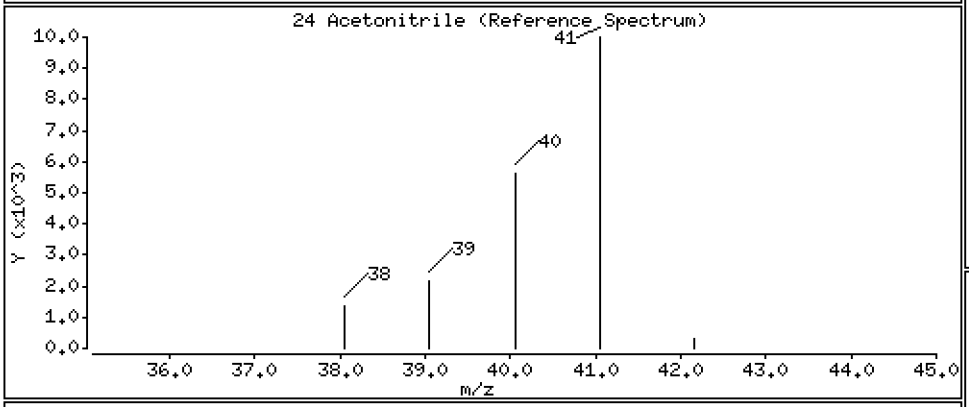
24 Acetonitrile Concentration: 4.26442 ug/L

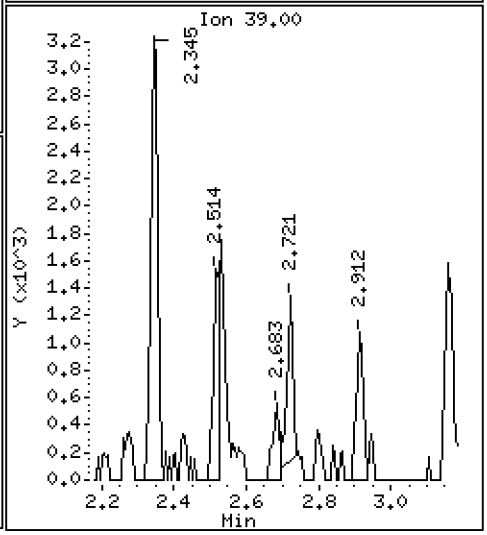


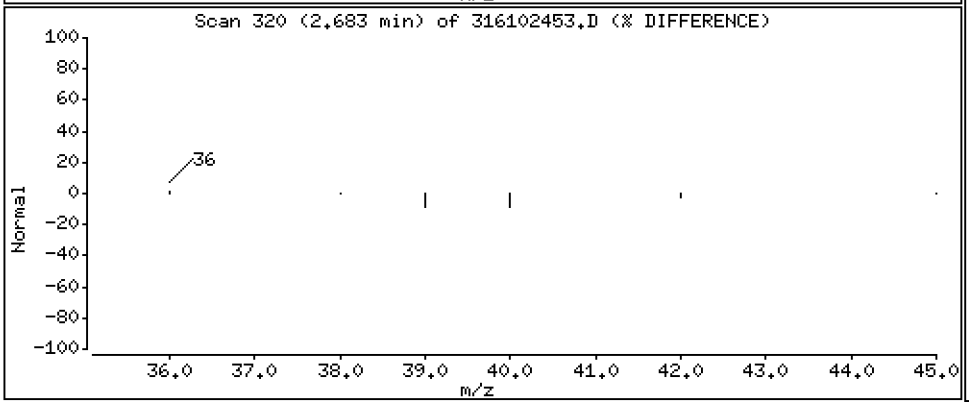












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 33

Date : 24-OCT-2016 23:25

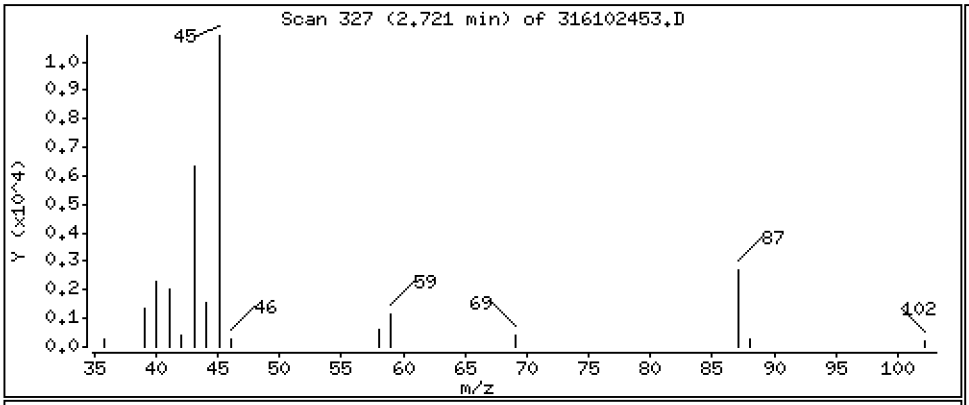
Client ID: Instrument: ms03.i

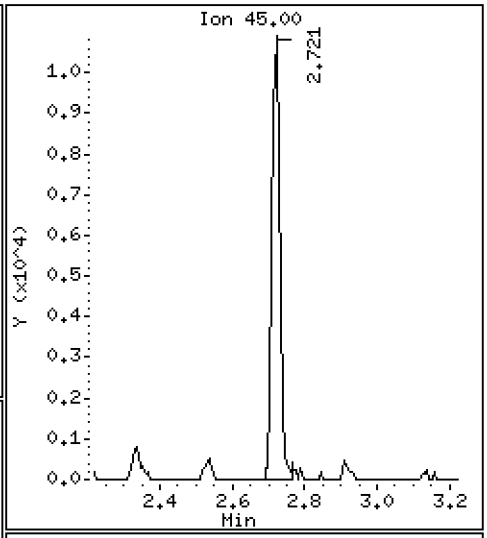
Sample Info: VSTD00.5;;1;1;8;;;

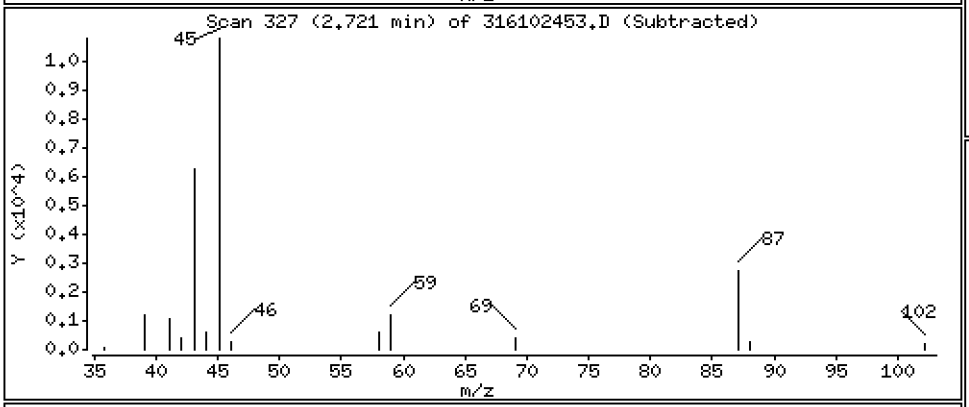
Purge Volume: 5.0 Operator: CJG

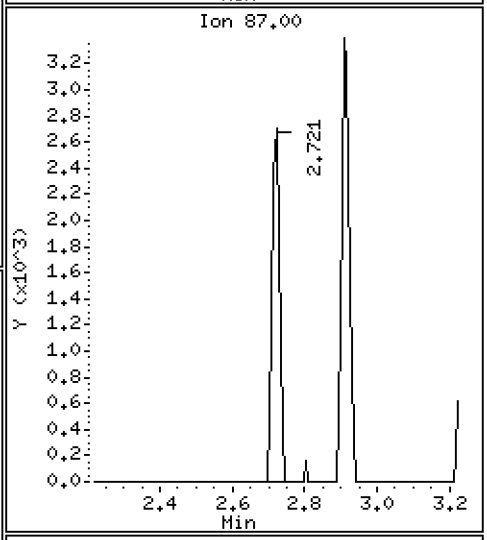
Column phase: DB-VRX Column diameter: 0.25

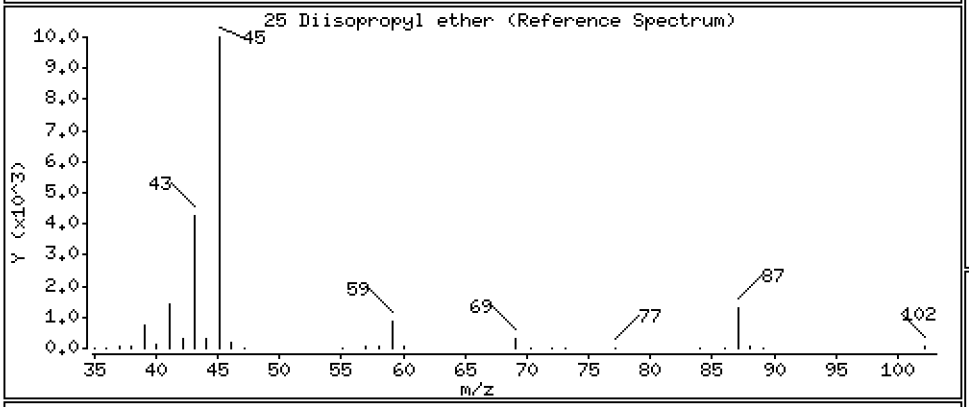
25 Diisopropyl ether Concentration: 0.498743 ug/L

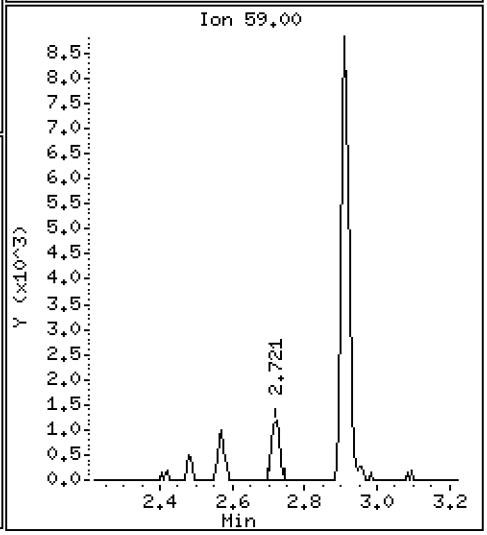


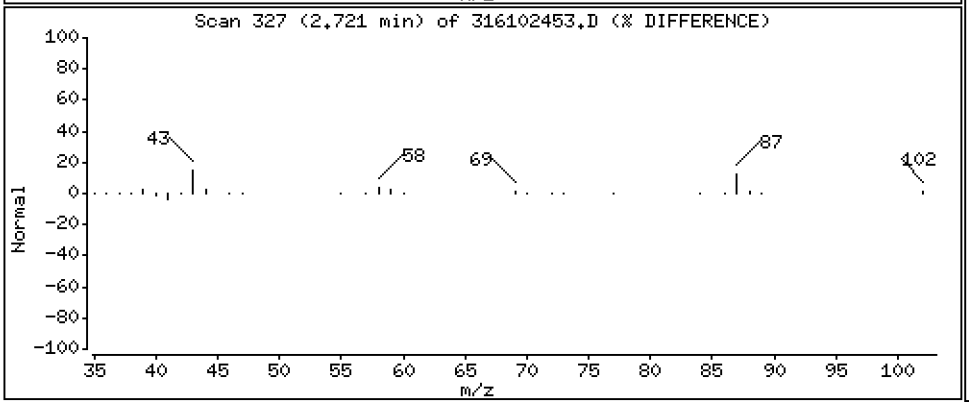












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 34

Date : 24-OCT-2016 23:25

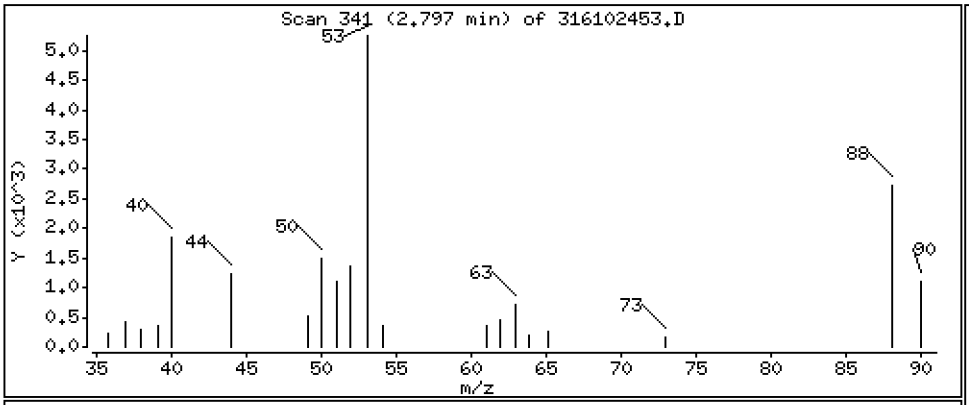
Client ID: Instrument: ms03.i

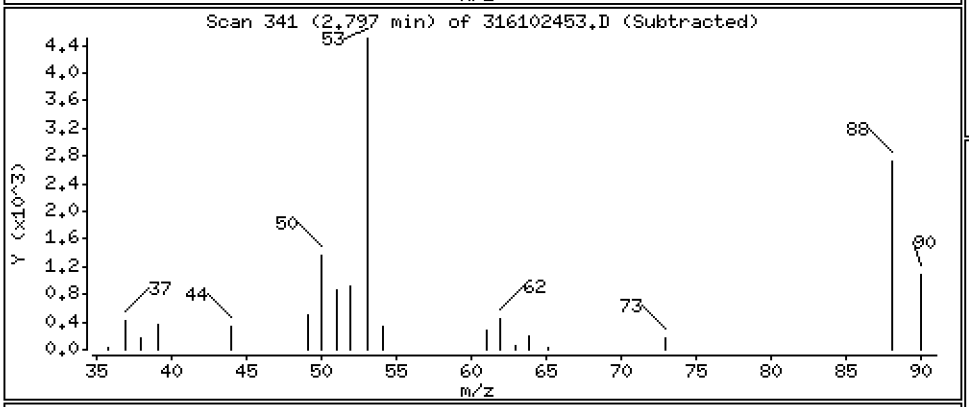
Sample Info: VSTD00.5;;1;1;8;;;

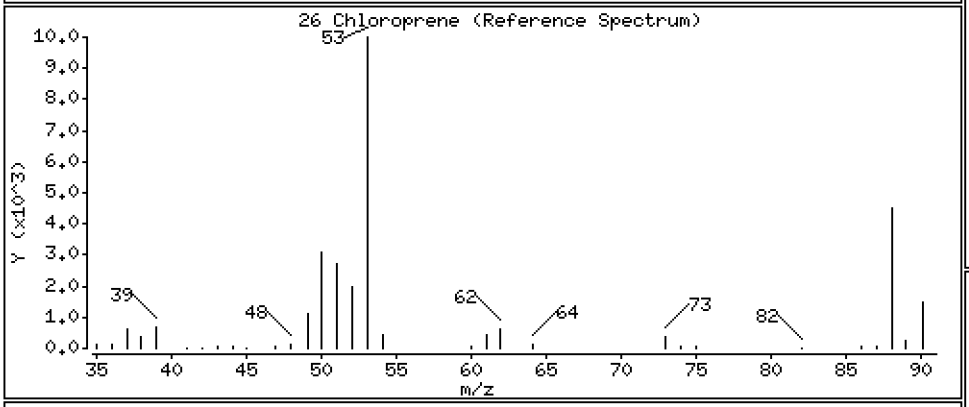
Purge Volume: 5.0 Operator: CJG

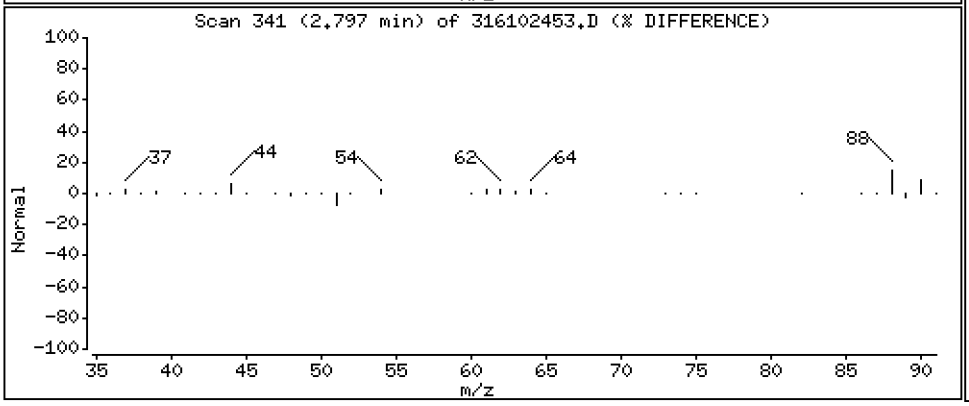
Column phase: DB-VRX Column diameter: 0.25

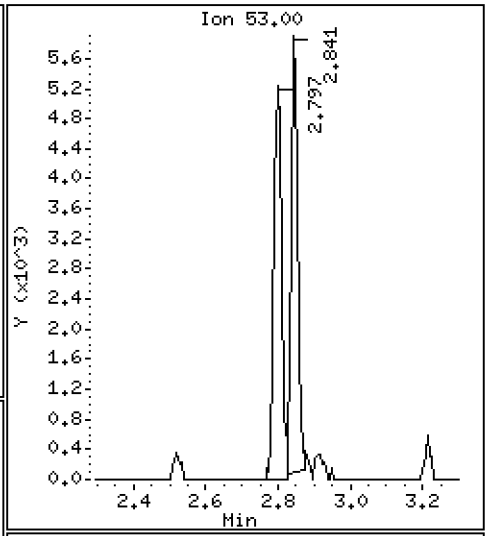
26 Chloroprene Concentration: 0.591489 ug/L

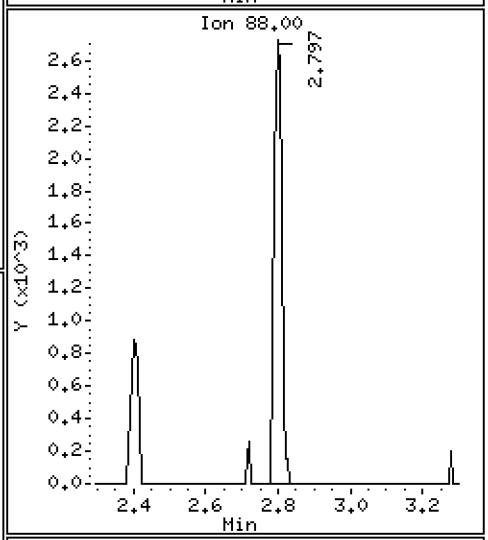


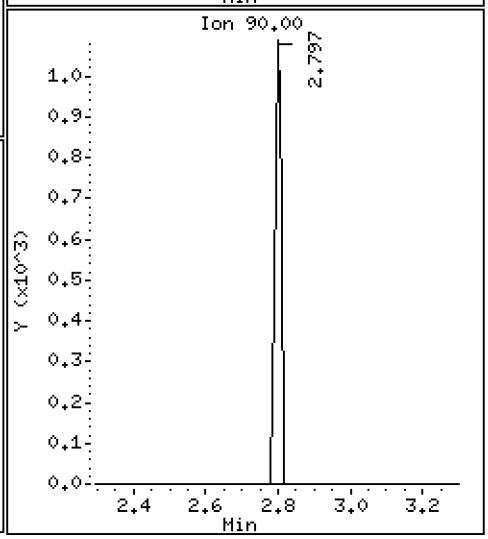












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 35

Date : 24-OCT-2016 23:25

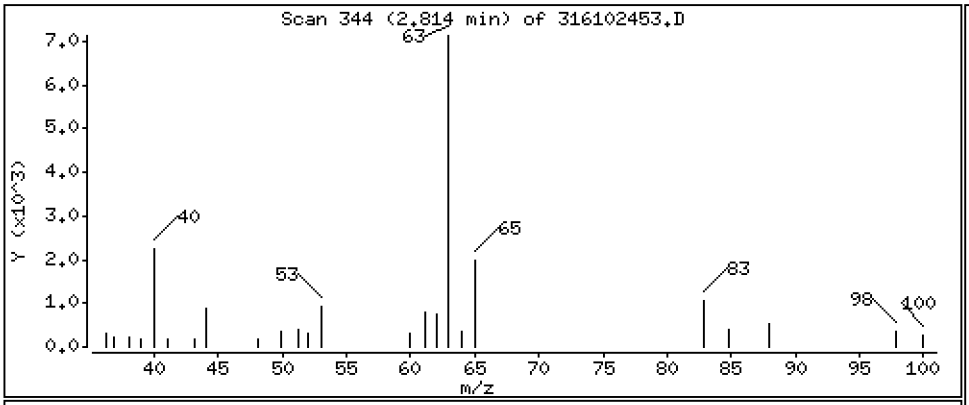
Client ID: Instrument: ms03.i

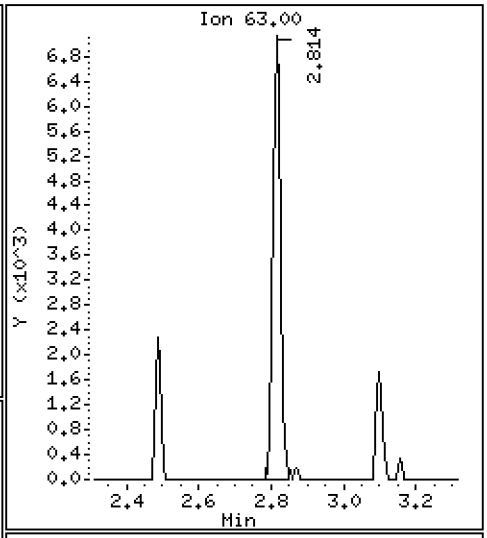
Sample Info: VSTD00.5;;1;1;8;;;

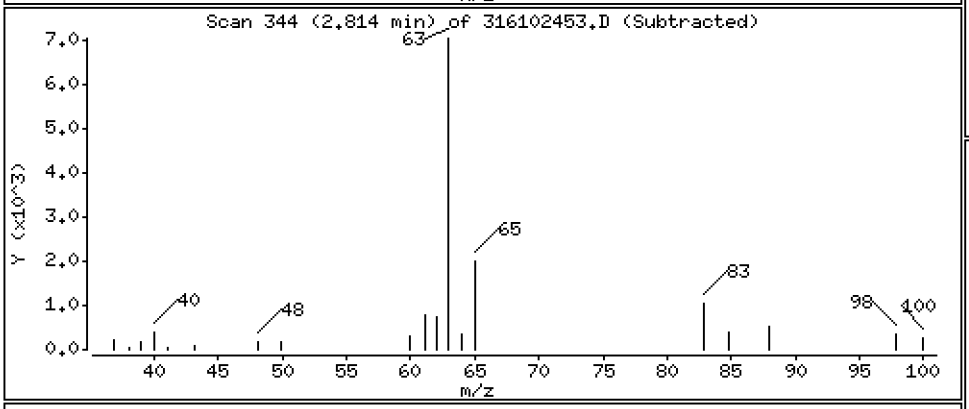
Purge Volume: 5.0 Operator: CJG

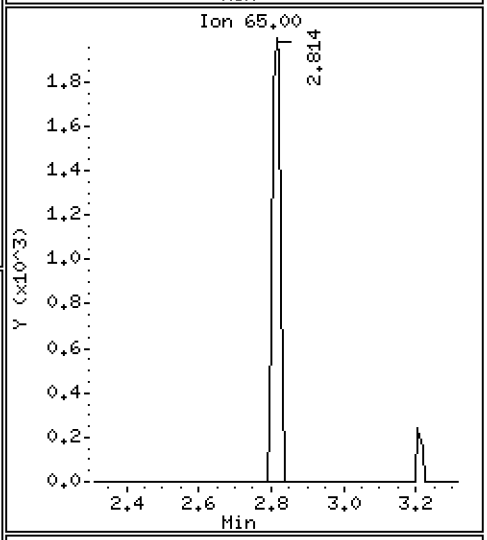
Column phase: DB-VRX Column diameter: 0.25

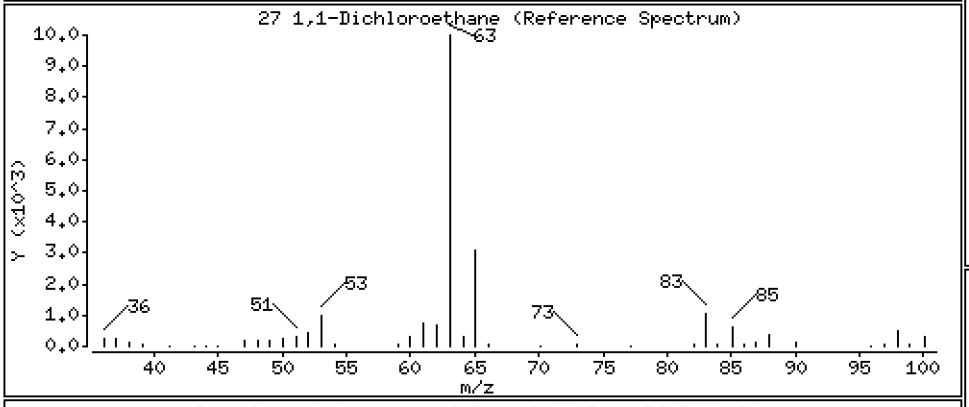
27 1,1-Dichloroethane Concentration: 0.588192 ug/L

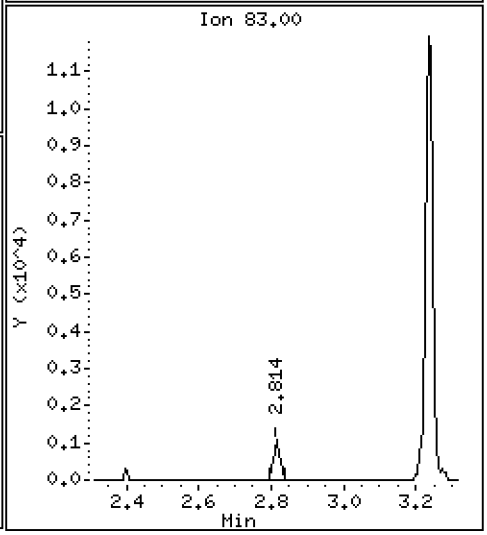


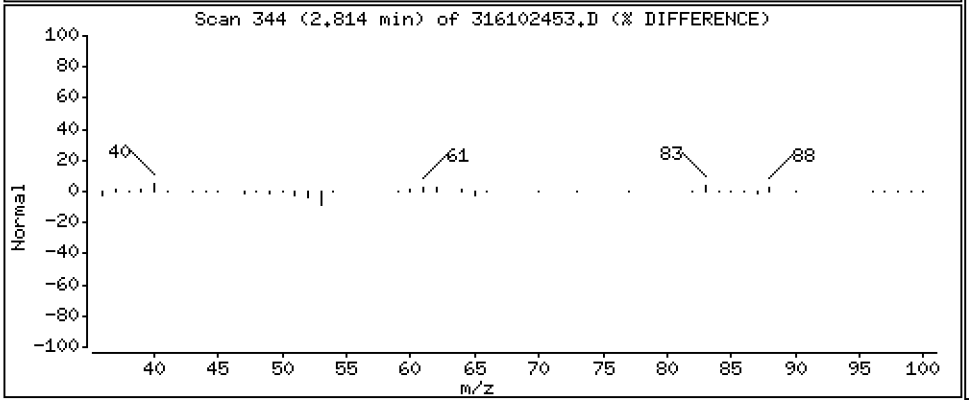












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 36

Date : 24-OCT-2016 23:25

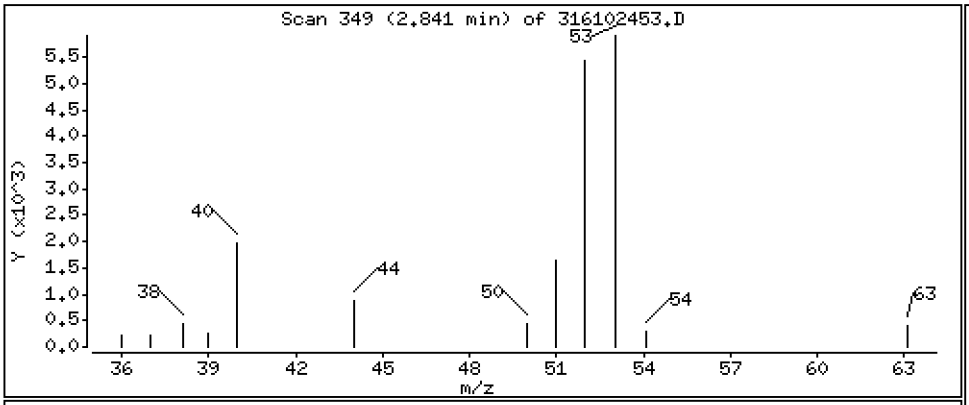
Client ID: Instrument: ms03.i

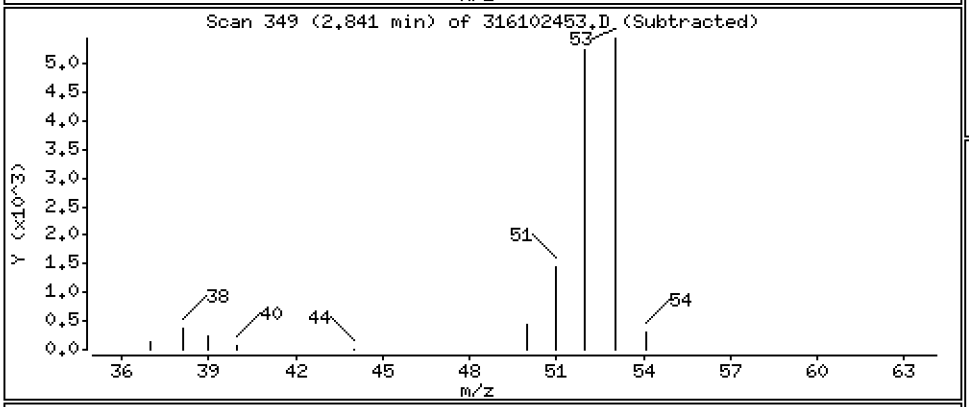
Sample Info: VSTD00.5;;1;1;8;;;

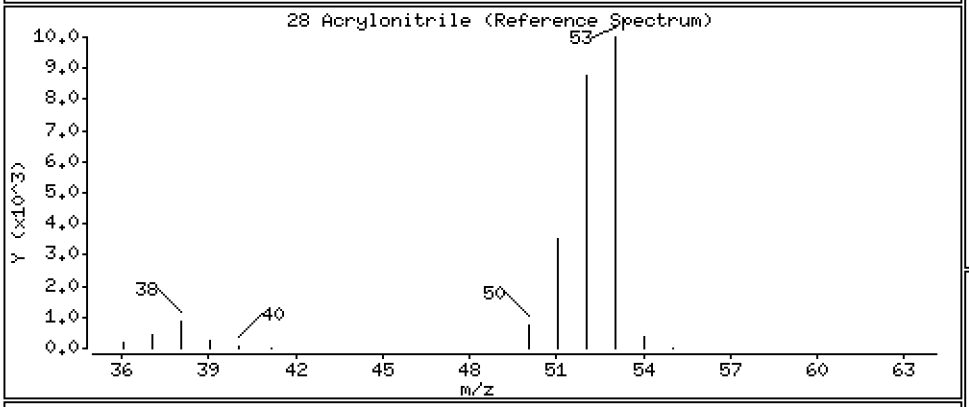
Purge Volume: 5.0 Operator: CJG

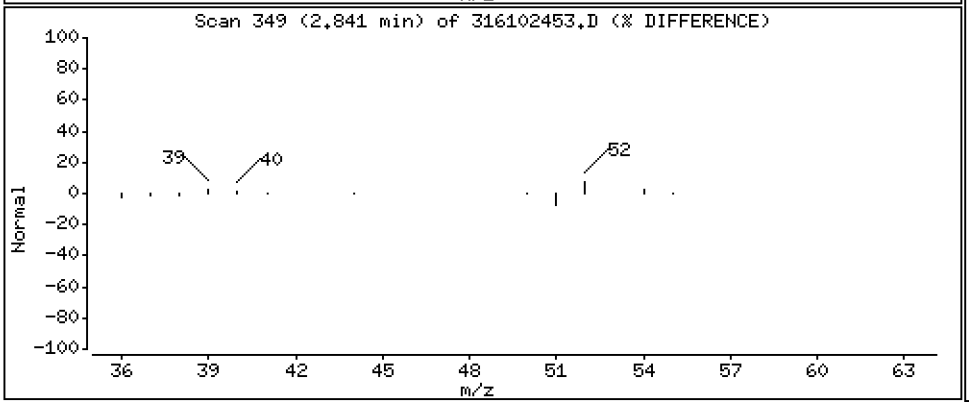
Column phase: DB-VRX Column diameter: 0.25

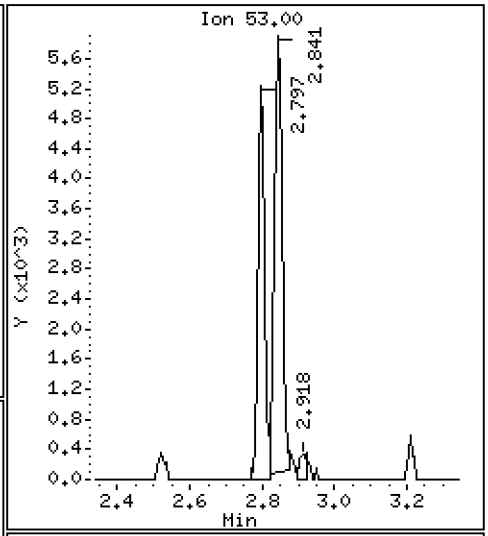
28 Acrylonitrile Concentration: 2.65567 ug/L

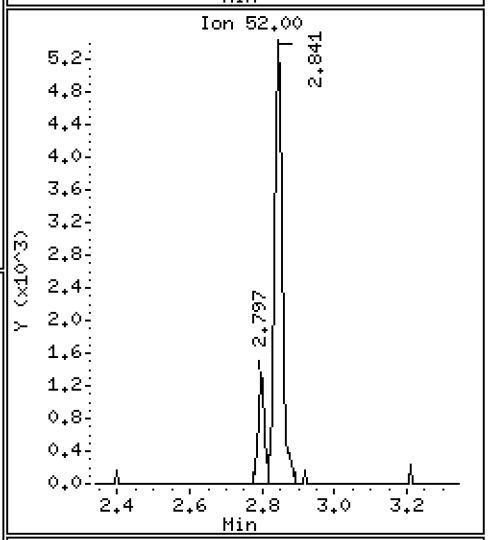


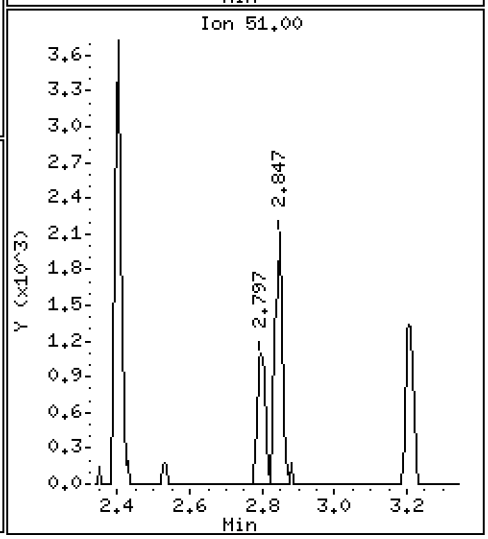












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 37

Date : 24-OCT-2016 23:25

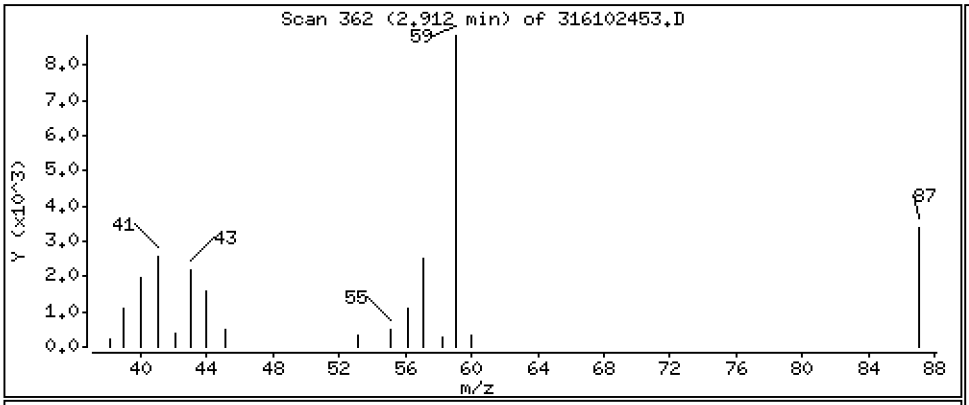
Client ID: Instrument: ms03.i

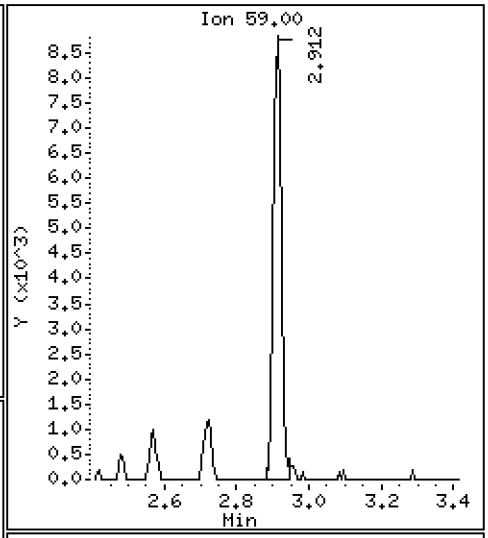
Sample Info: VSTD00.5;;1;1;8;;;

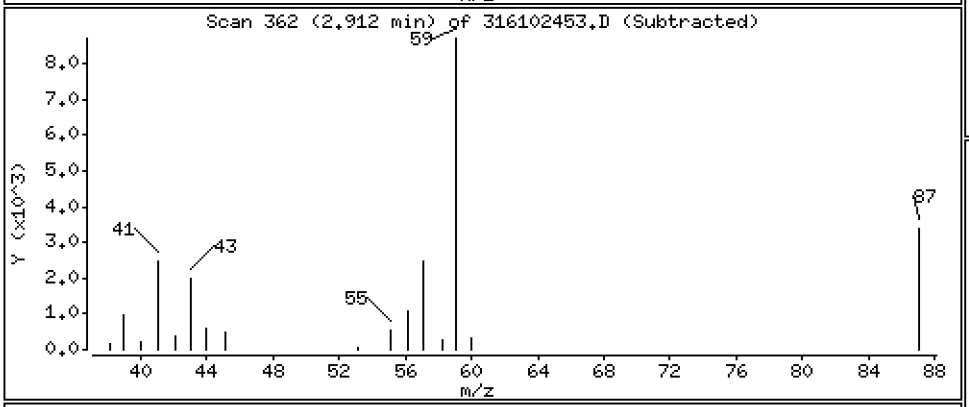
Purge Volume: 5.0 Operator: CJG

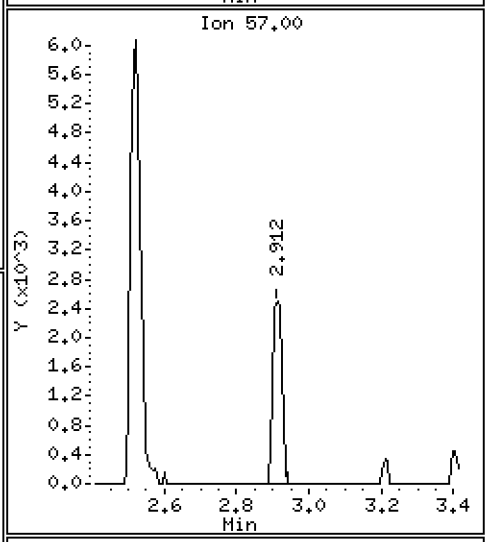
Column phase: DB-VRX Column diameter: 0.25

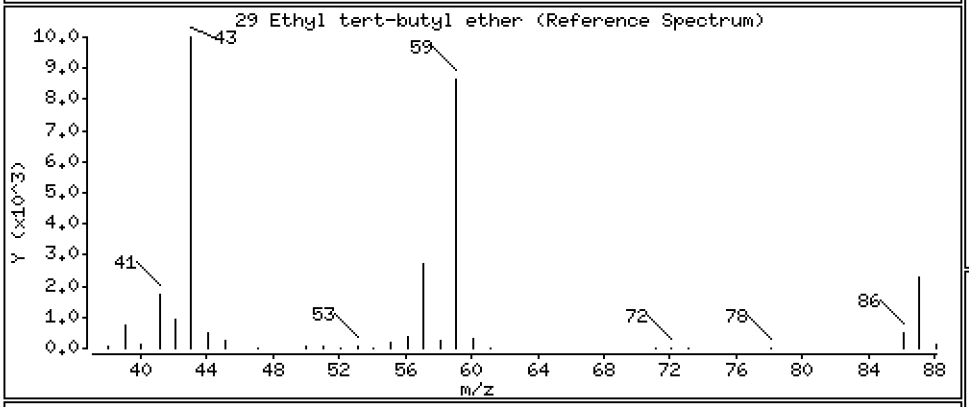
29 Ethyl tert-butyl ether Concentration: 0.477618 ug/L

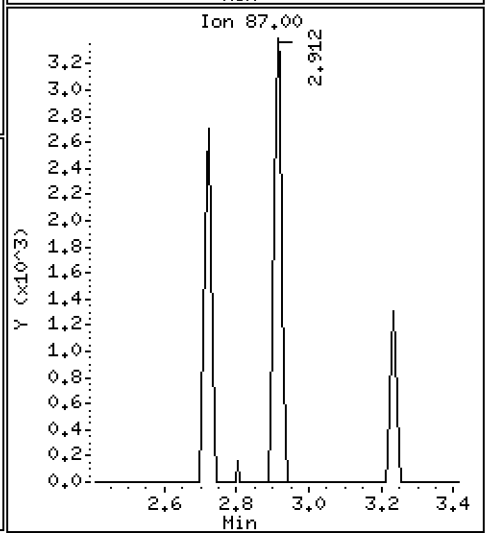


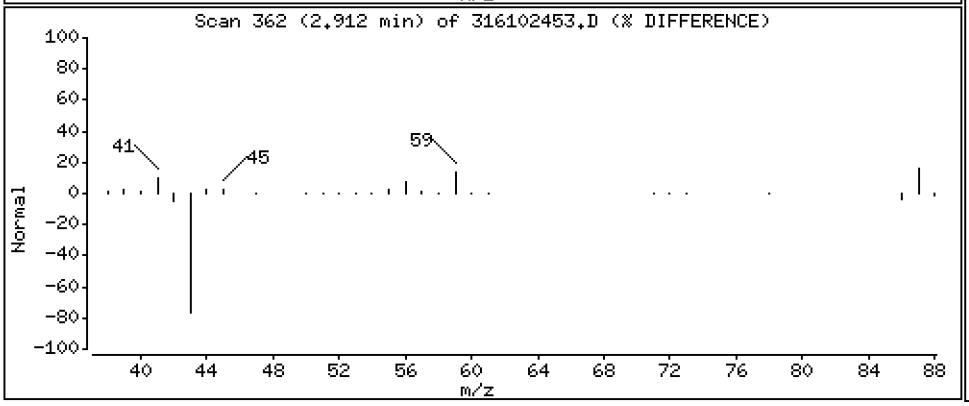












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 38

Date : 24-OCT-2016 23:25

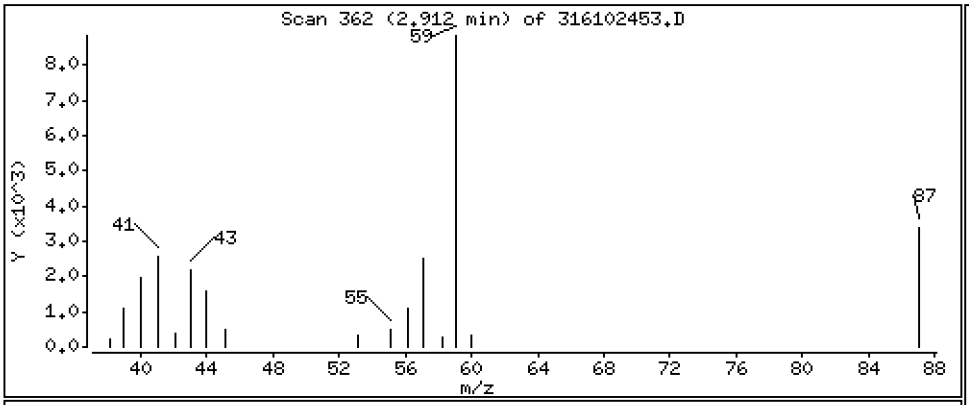
Client ID: Instrument: ms03.i

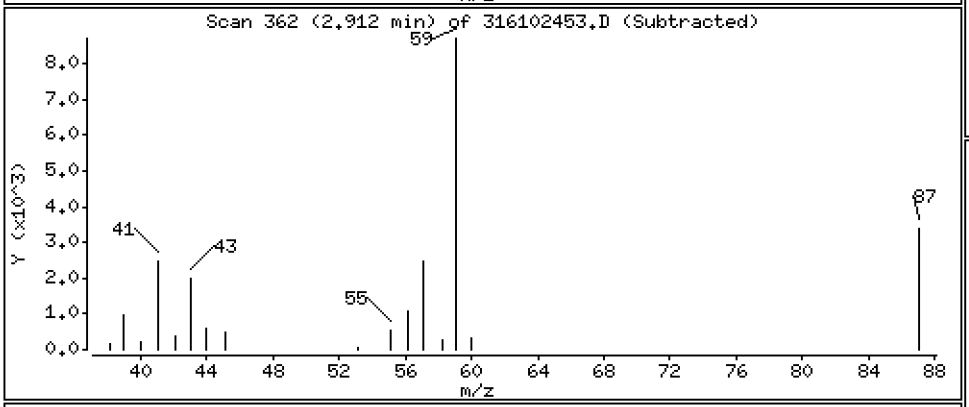
Sample Info: VSTD00.5;;1;1;8;;;

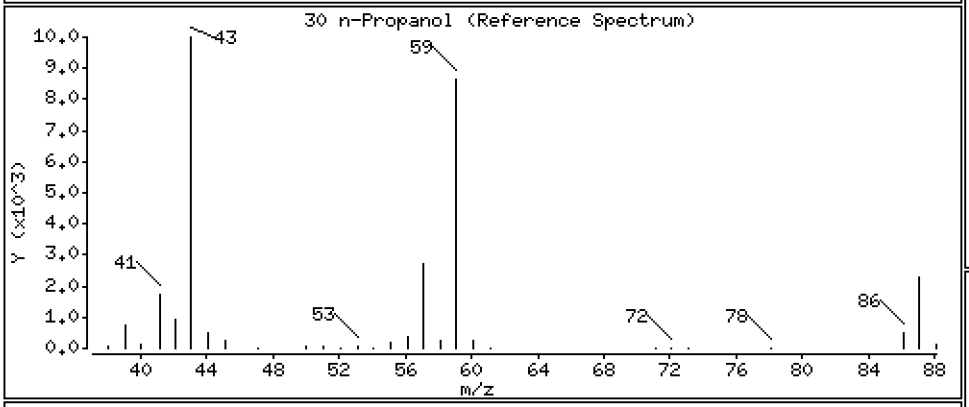
Purge Volume: 5.0 Operator: CJG

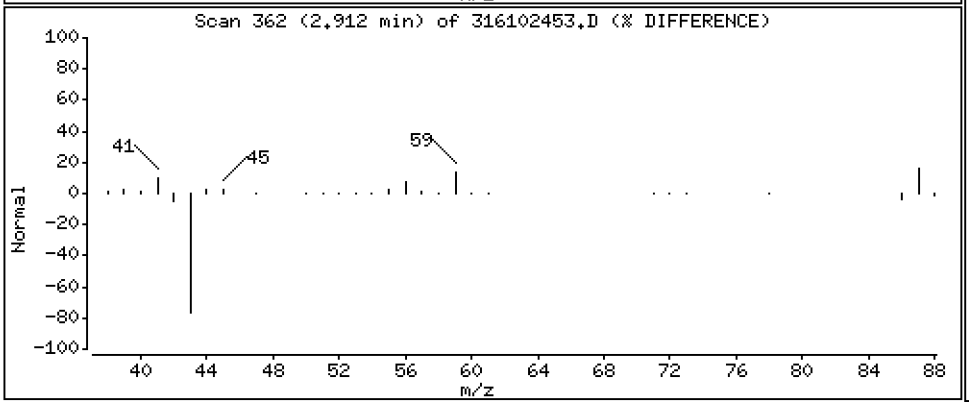
Column phase: DB-VRX Column diameter: 0.25

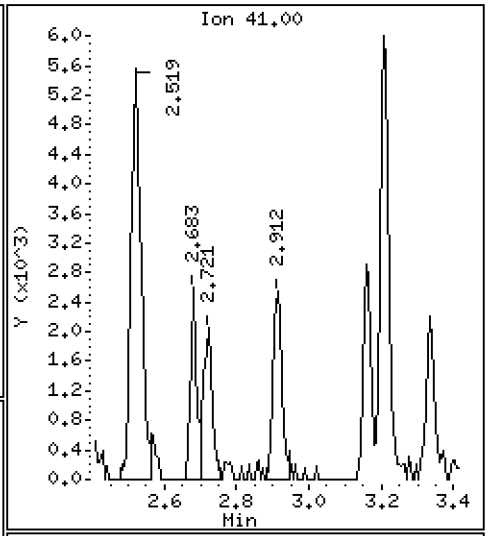
30 n-Propanol Concentration: 6.90834 ug/L

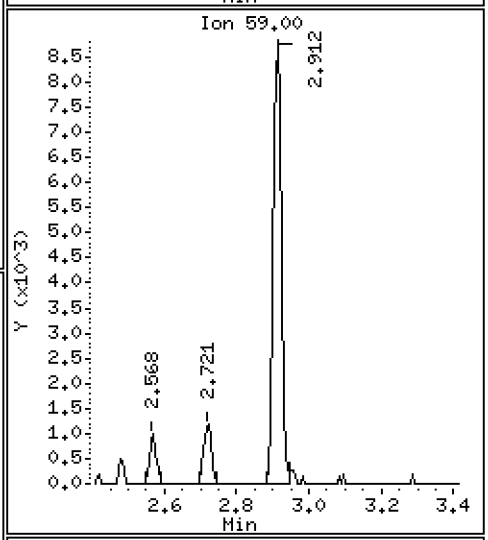


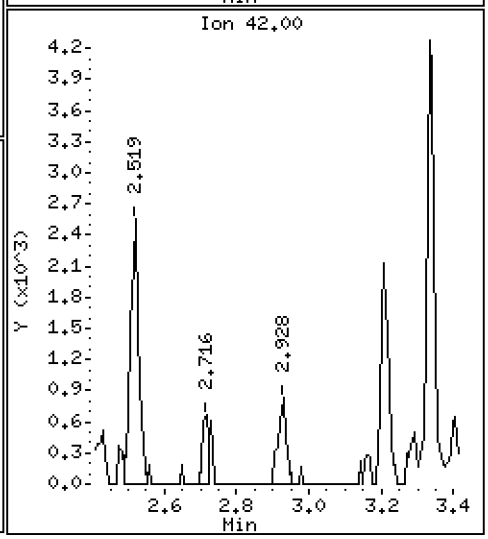












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 39

Date : 24-OCT-2016 23:25

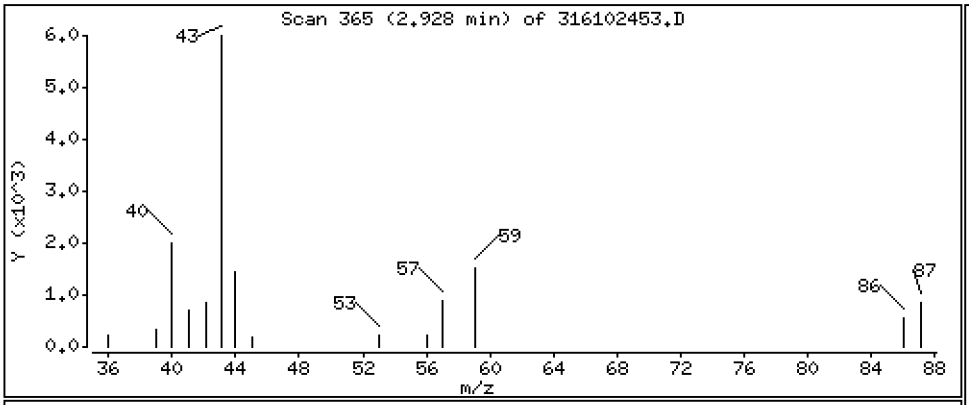
Client ID: Instrument: ms03.i

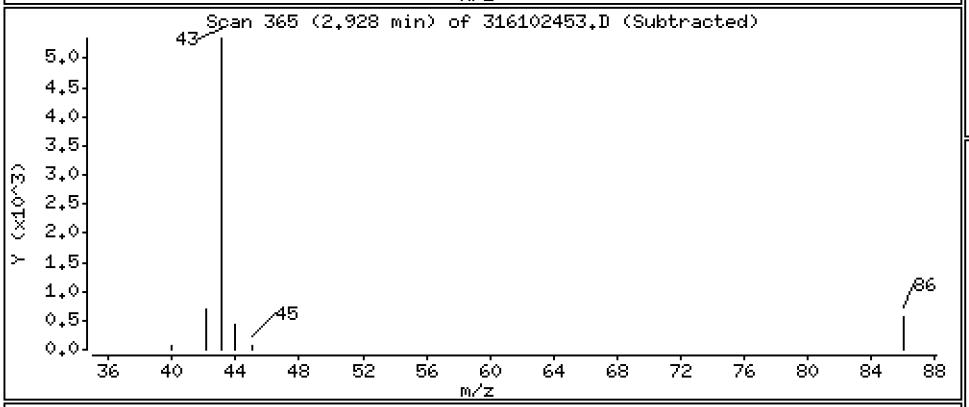
Sample Info: VSTD00.5;;1;1;8;;;

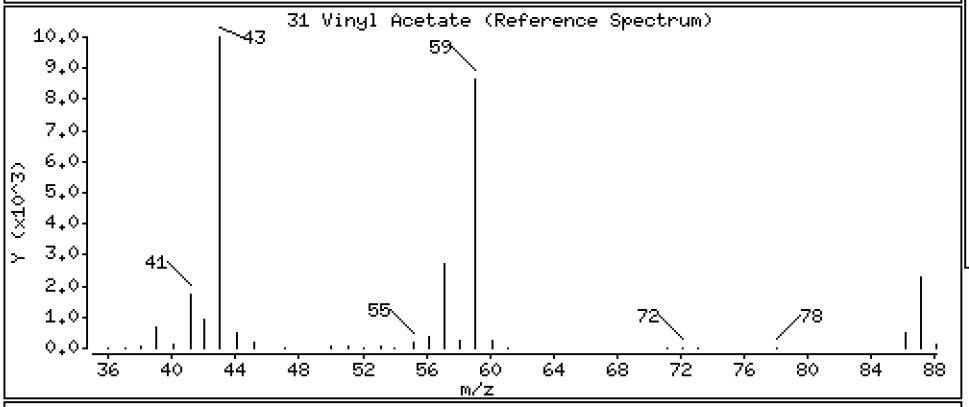
Purge Volume: 5.0 Operator: CJG

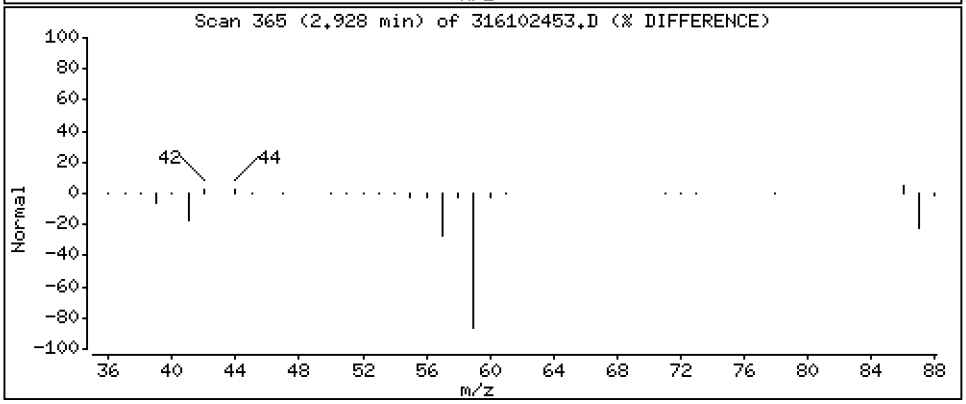
Column phase: DB-VRX Column diameter: 0.25

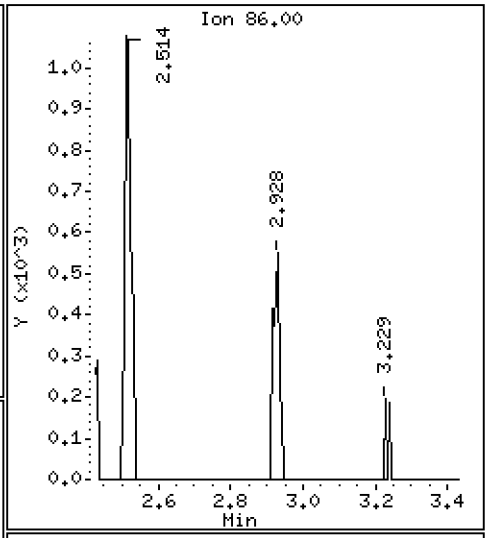
31 Vinyl Acetate Concentration: 0.338186 ug/L

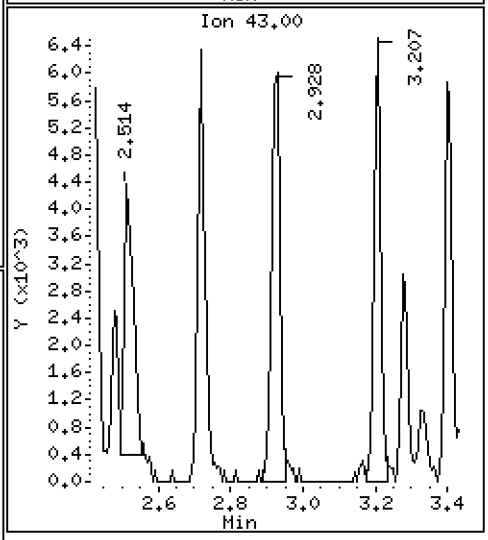












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 40

Date : 24-OCT-2016 23:25

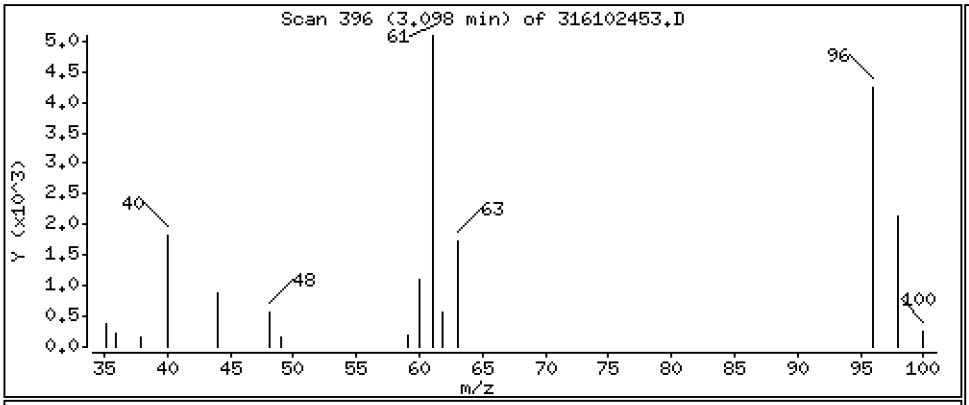
Client ID: Instrument: ms03.i

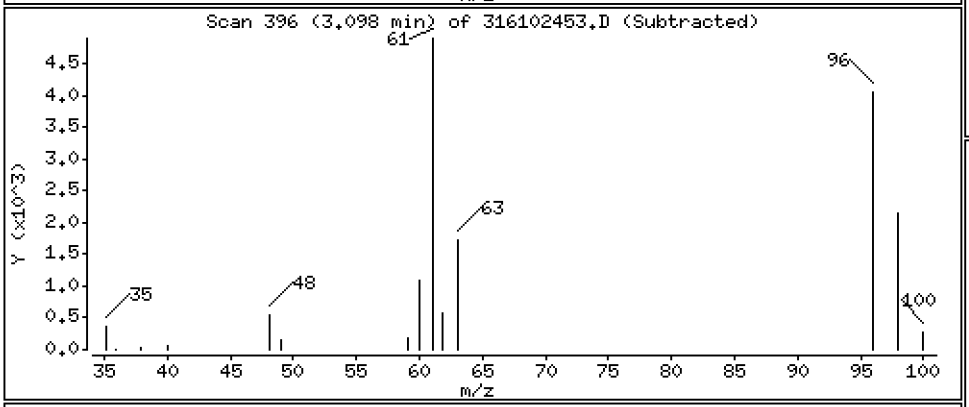
Sample Info: VSTD00.5;;1;1;8;;;

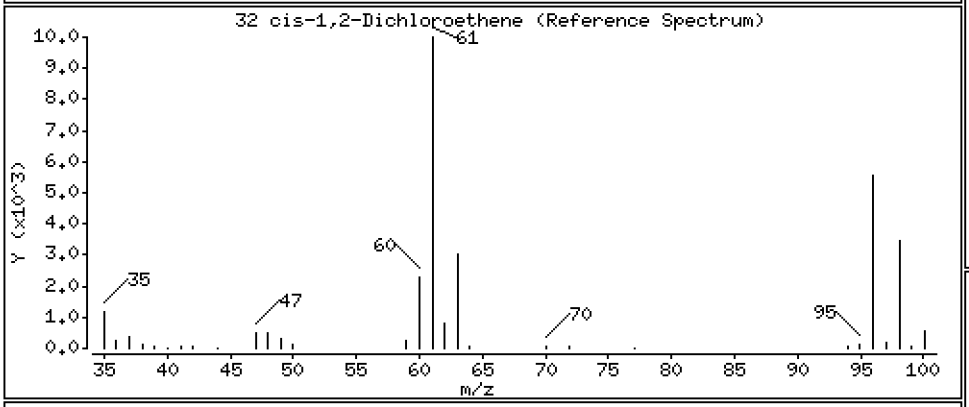
Purge Volume: 5.0 Operator: CJG

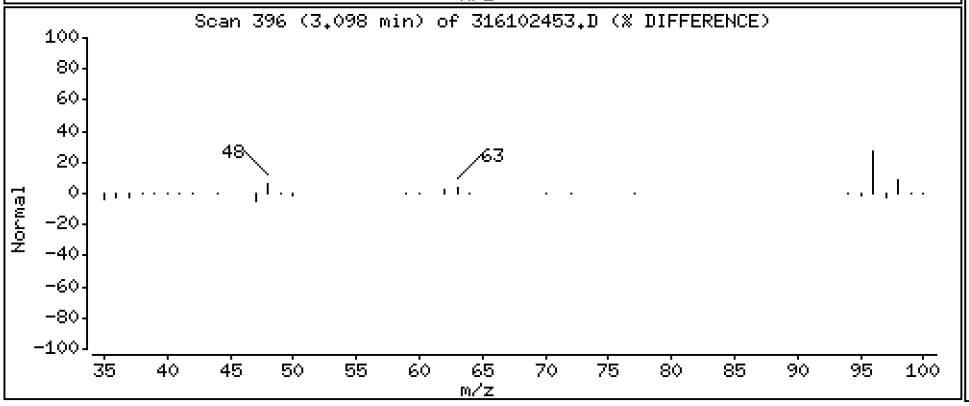
Column phase: DB-VRX Column diameter: 0.25

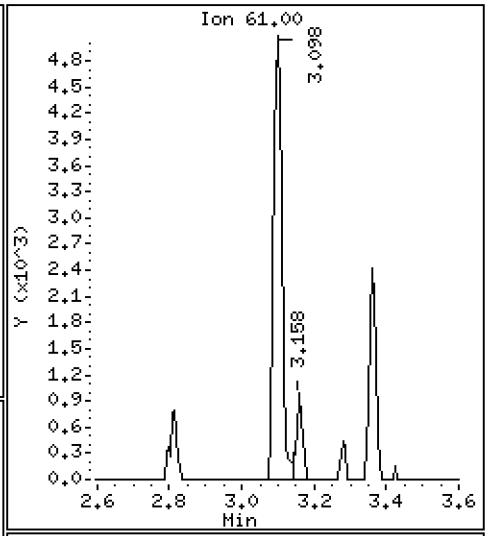
32 cis-1,2-Dichloroethene Concentration: 0.610059 ug/L

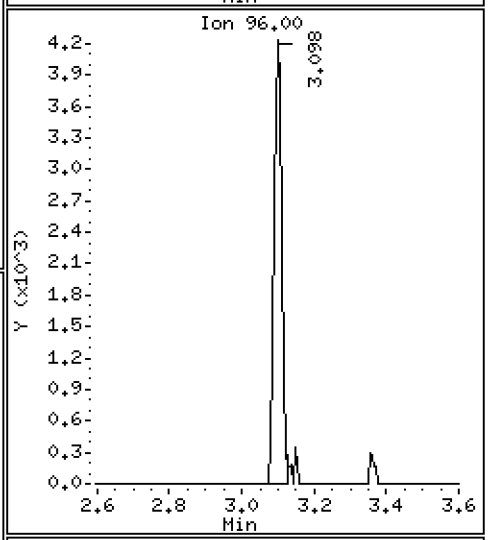


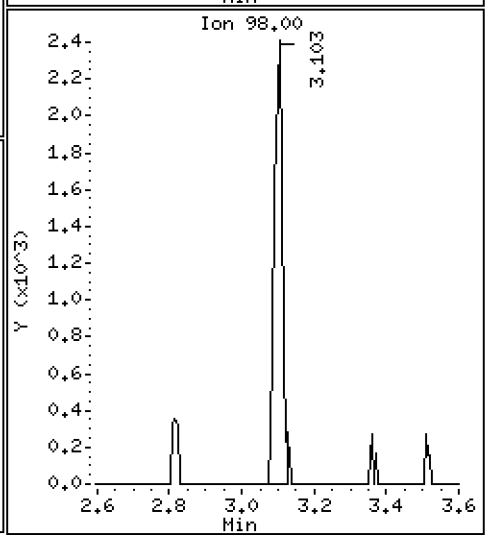












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 41

Date : 24-OCT-2016 23:25

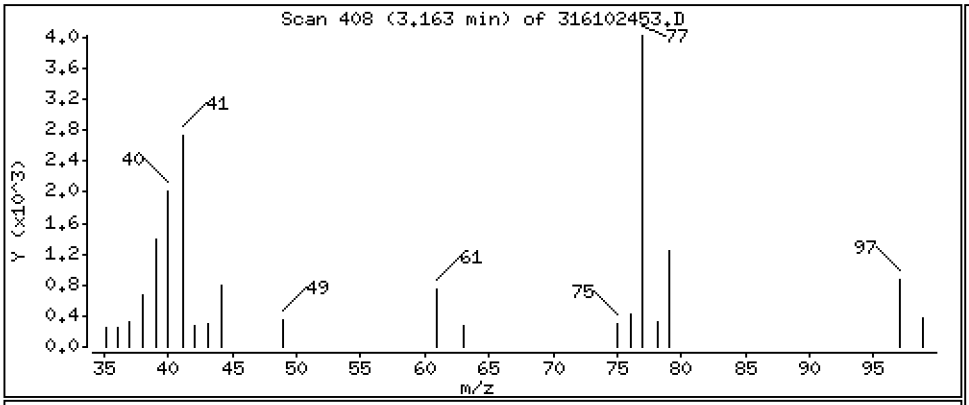
Client ID: Instrument: ms03.i

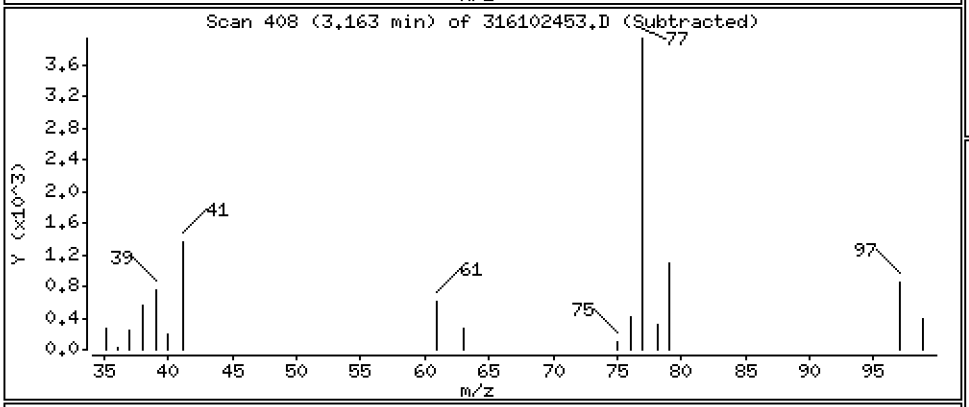
Sample Info: VSTD00.5;;1;1;8;;;

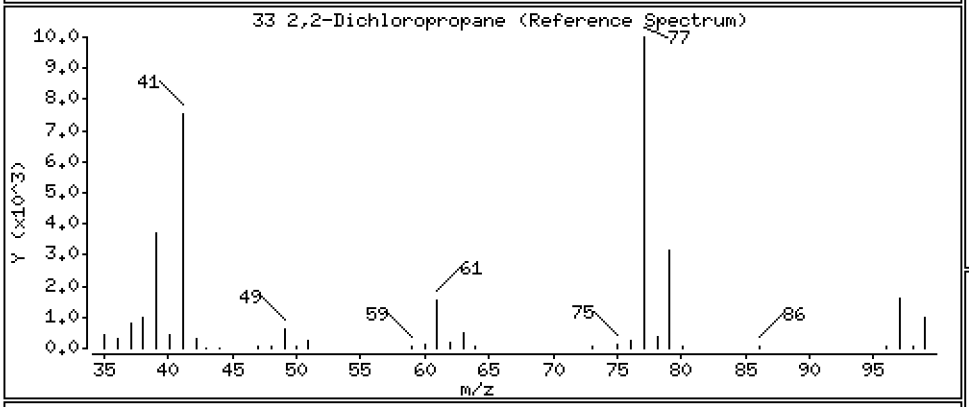
Purge Volume: 5.0 Operator: CJG

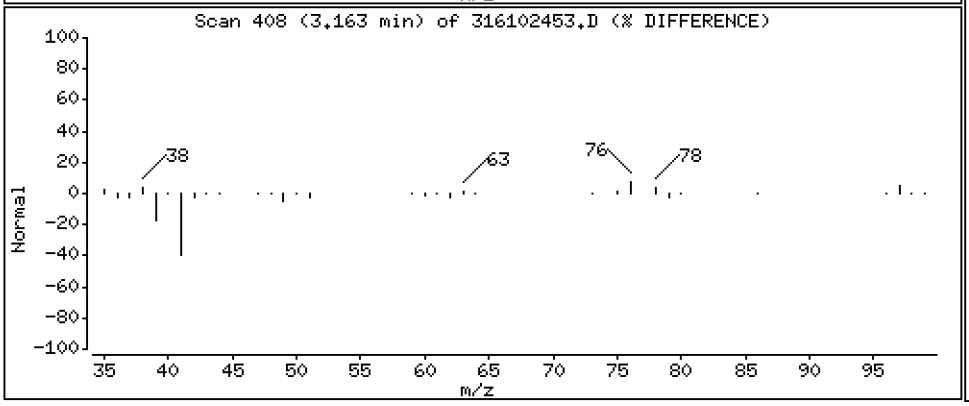
Column phase: DB-VRX Column diameter: 0.25

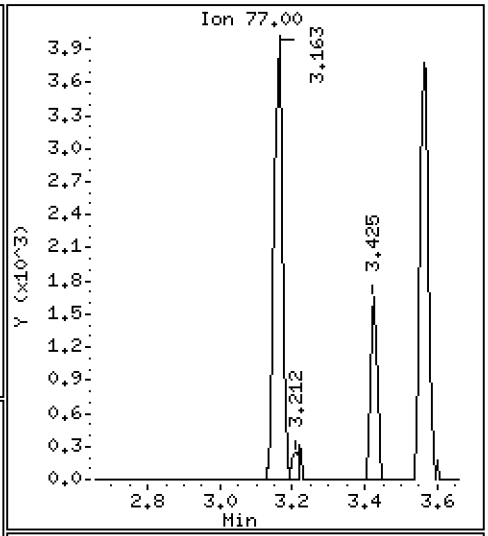
33 2,2-Dichloropropane Concentration: 0.586095 ug/L

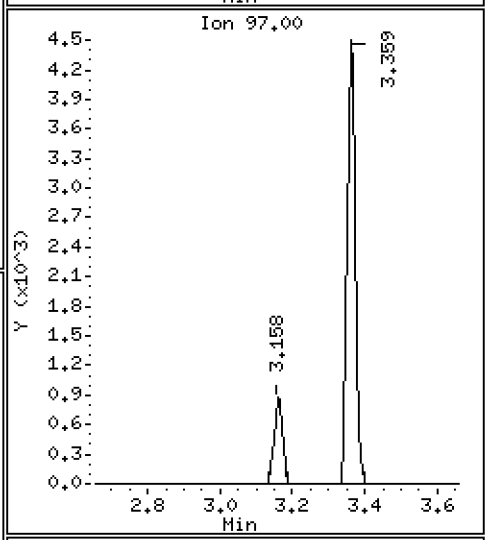


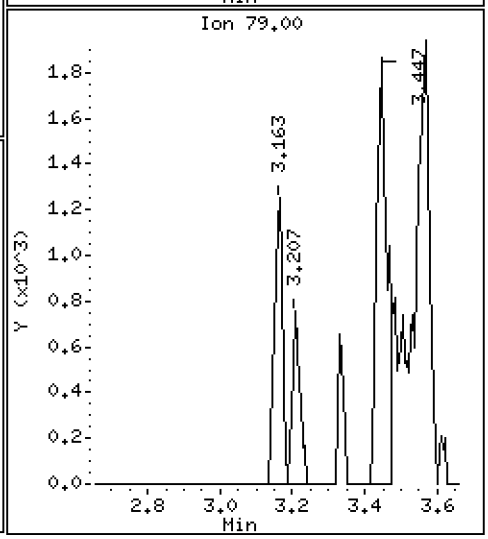












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 42

Date : 24-OCT-2016 23:25

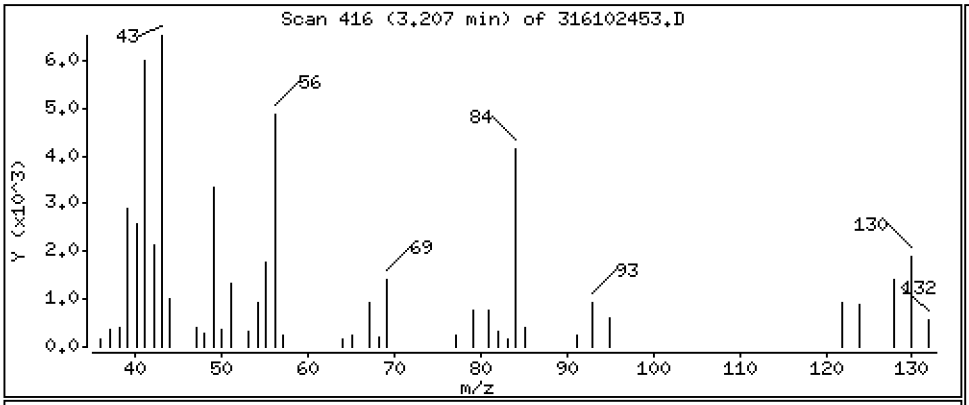
Client ID: Instrument: ms03.i

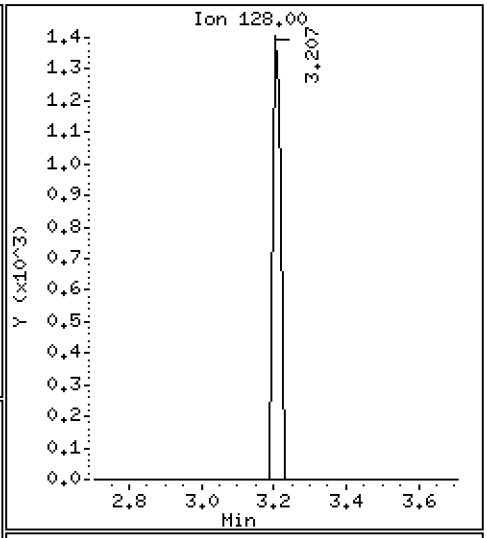
Sample Info: VSTD00.5;;1;1;8;;;

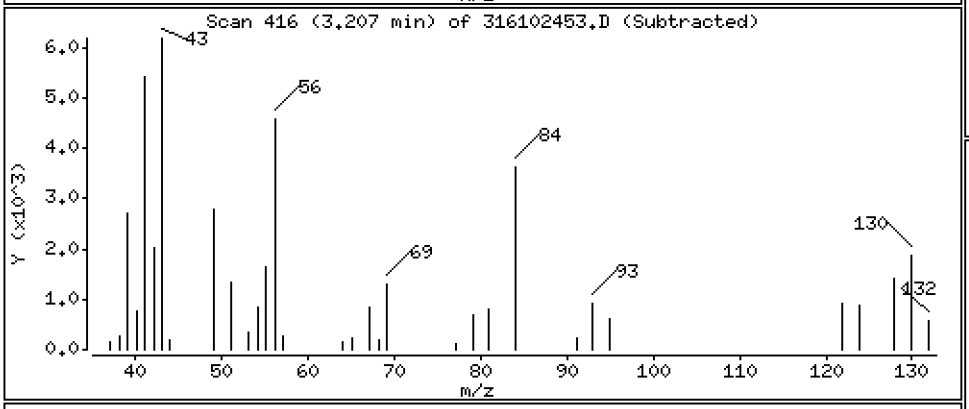
Purge Volume: 5.0 Operator: CJG

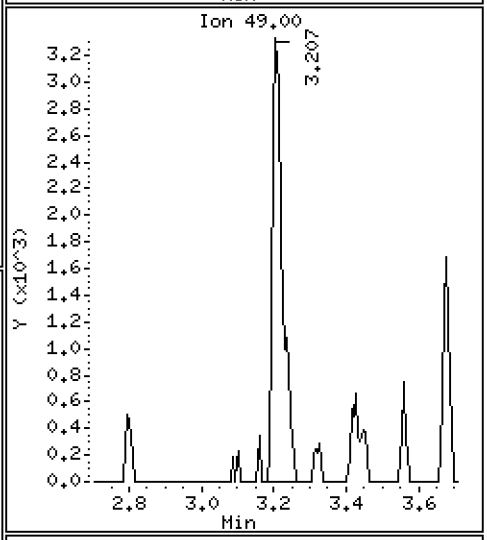
Column phase: DB-VRX Column diameter: 0.25

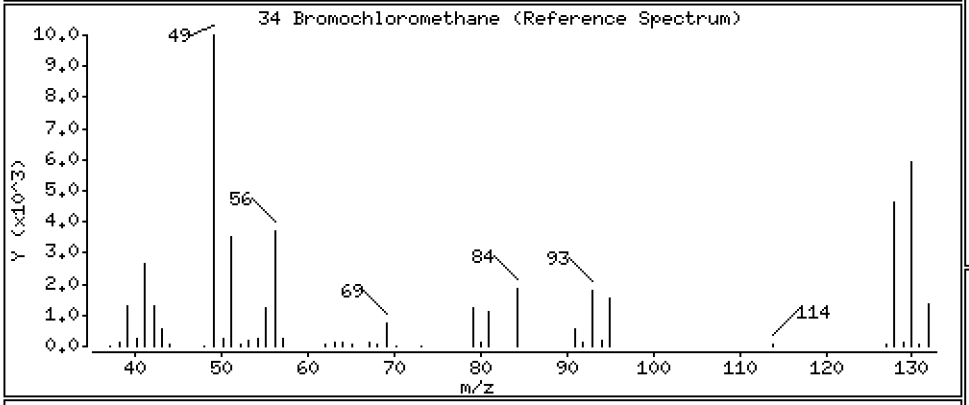
34 Bromochloromethane Concentration: 0.506762 ug/L

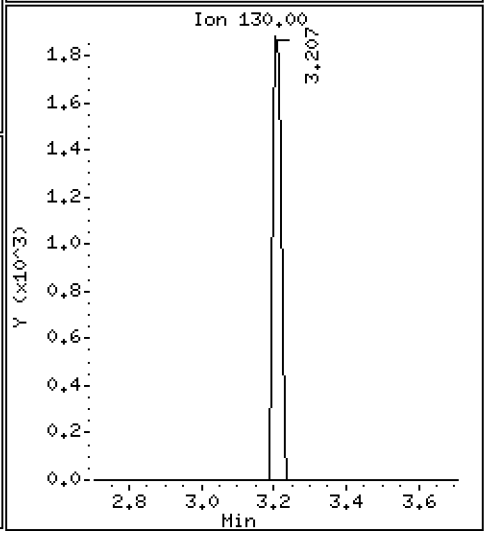


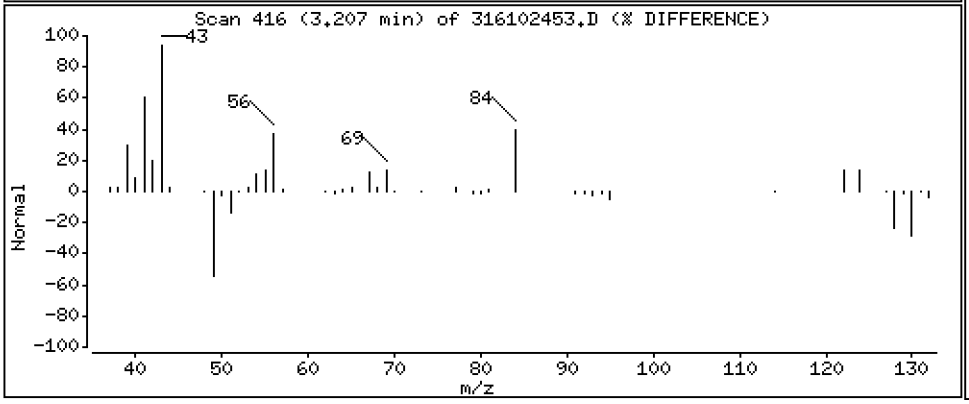












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 43

Date : 24-OCT-2016 23:25

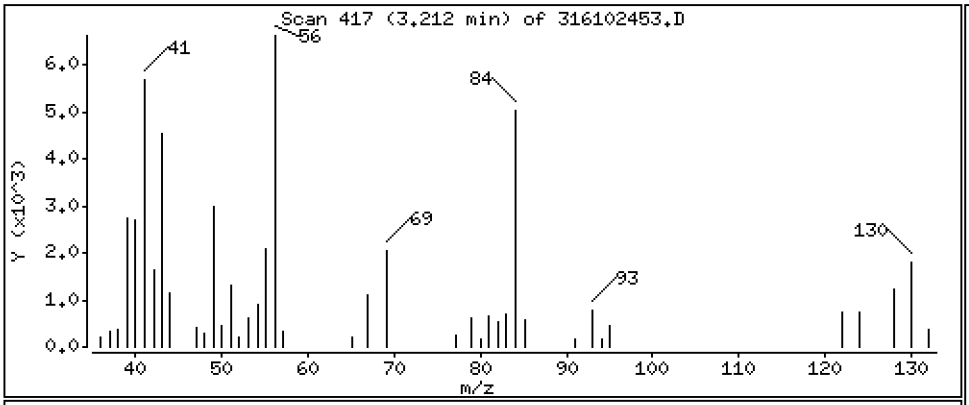
Client ID: Instrument: ms03.i

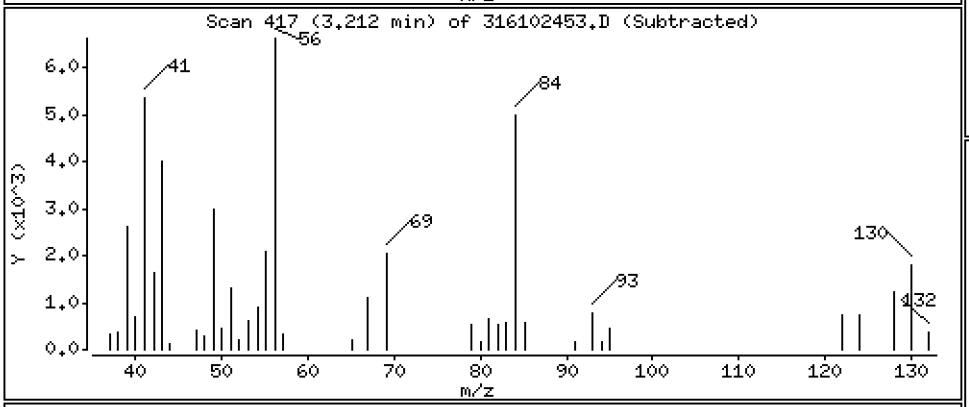
Sample Info: VSTD00.5;;1;1;8;;;

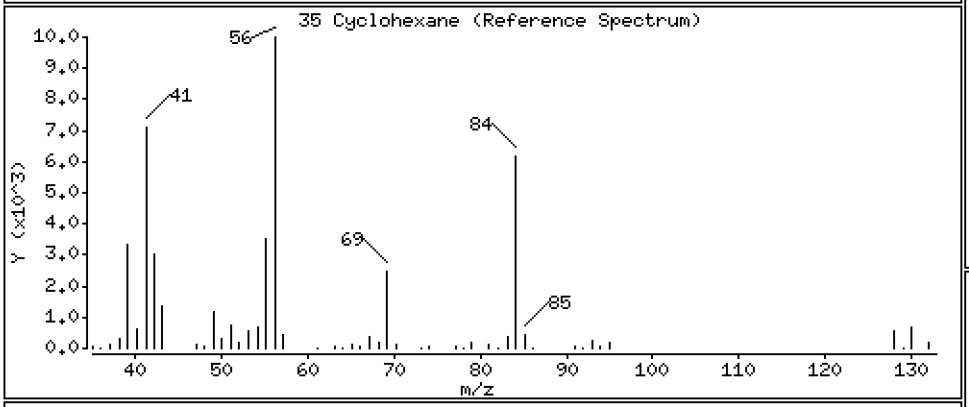
Purge Volume: 5.0 Operator: CJG

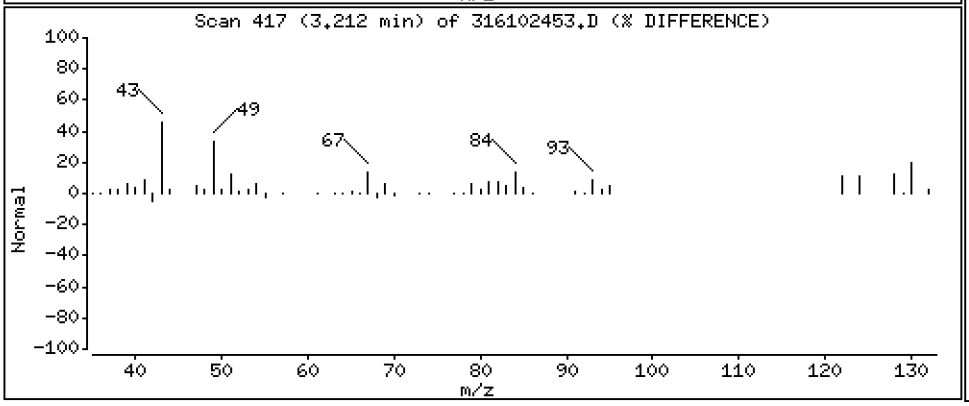
Column phase: DB-VRX Column diameter: 0.25

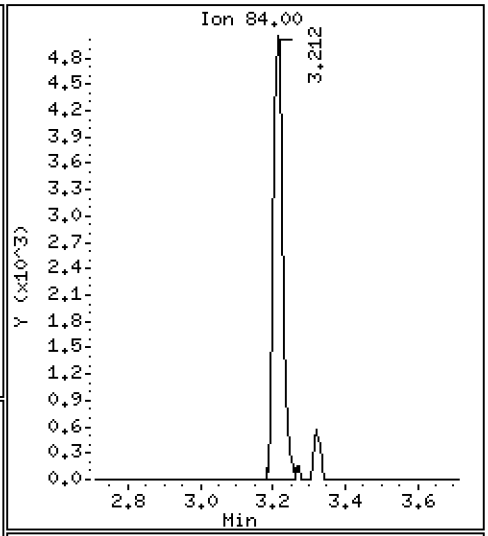
35 Cyclohexane Concentration: 0.722991 ug/L

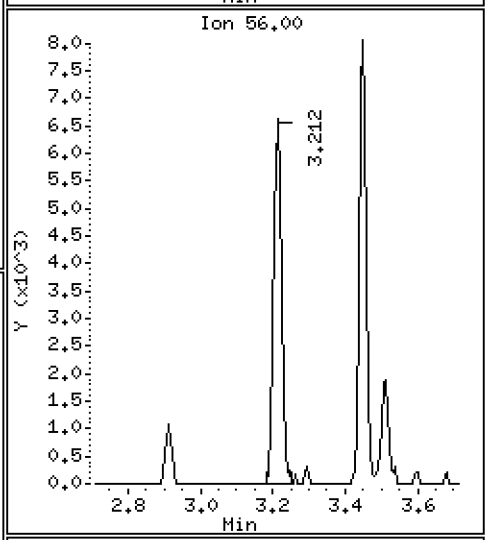


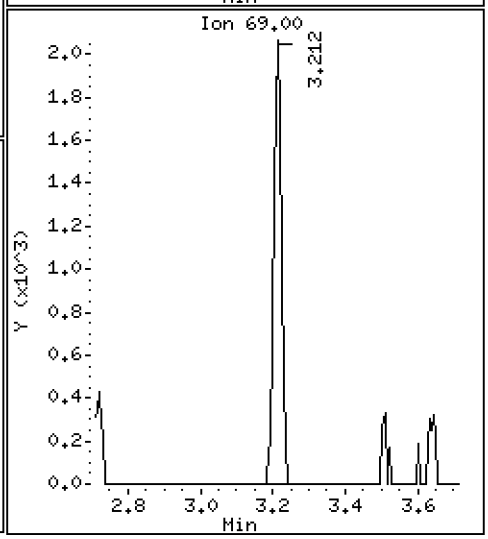












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 44

Date : 24-OCT-2016 23:25

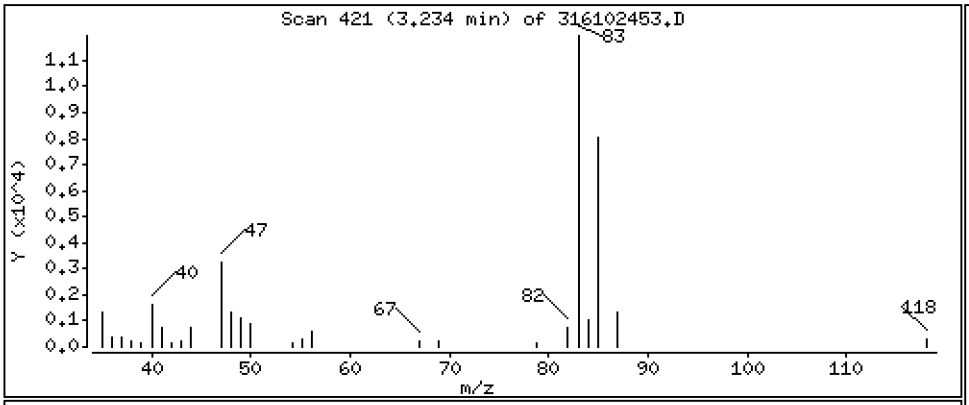
Client ID: Instrument: ms03.i

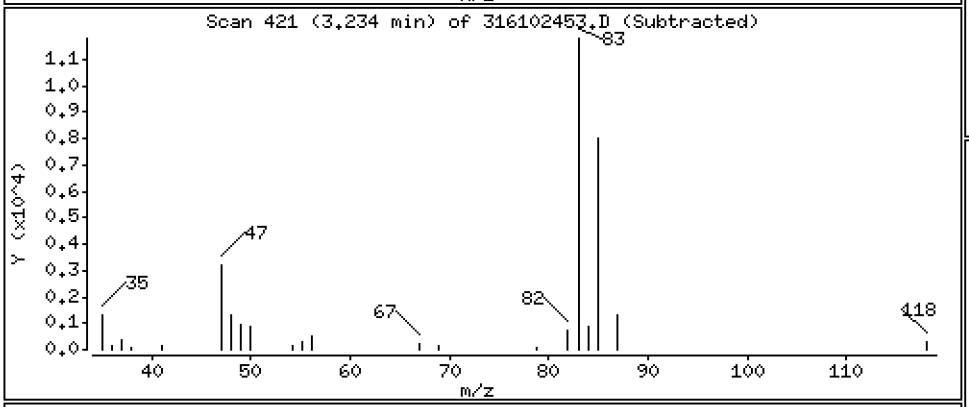
Sample Info: VSTD00.5;;1;1;8;;;

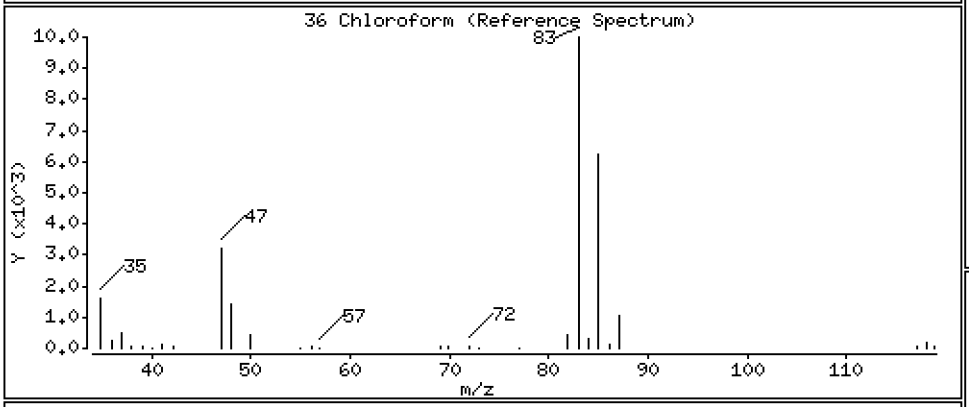
Purge Volume: 5.0 Operator: CJG

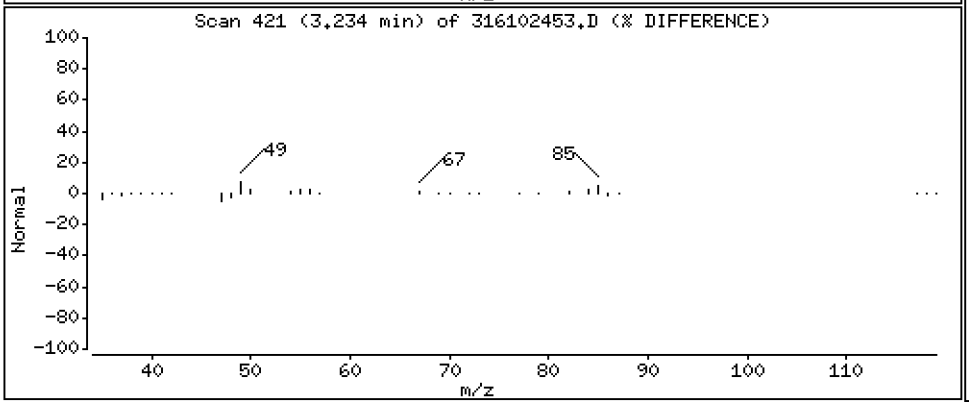
Column phase: DB-VRX Column diameter: 0.25

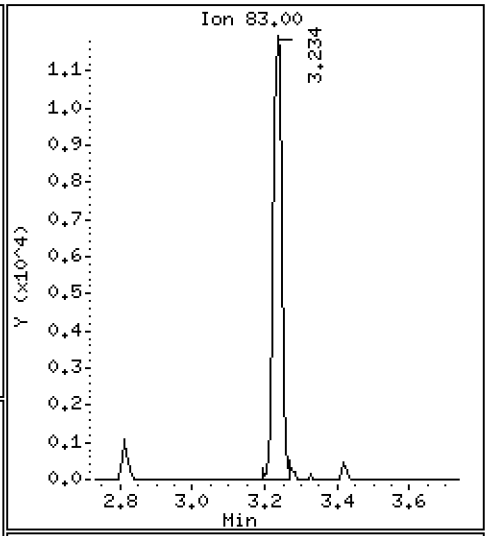
36 Chloroform Concentration: 1.14847 ug/L

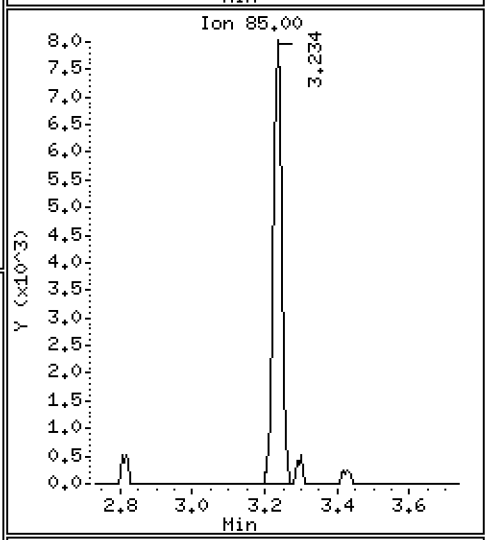


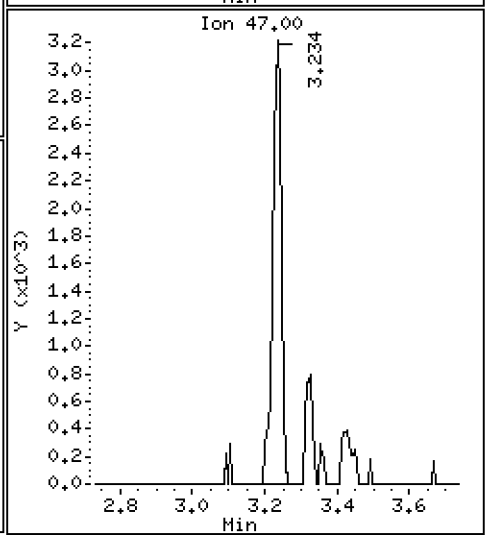












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 45

Date : 24-OCT-2016 23:25

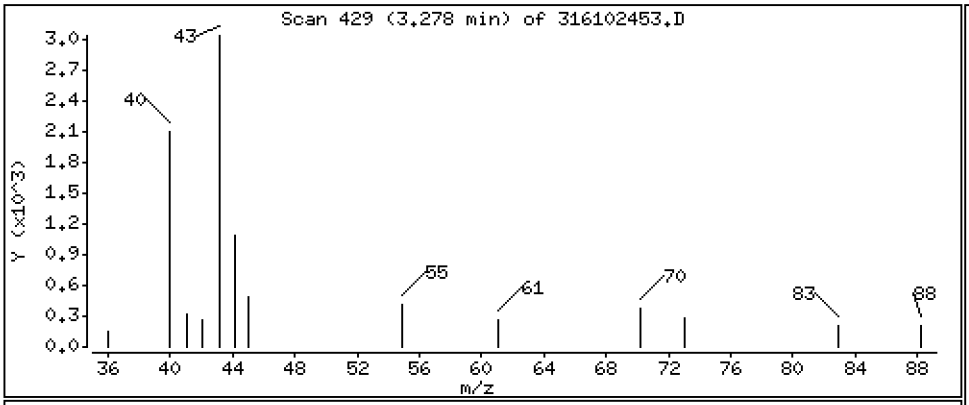
Client ID: Instrument: ms03.i

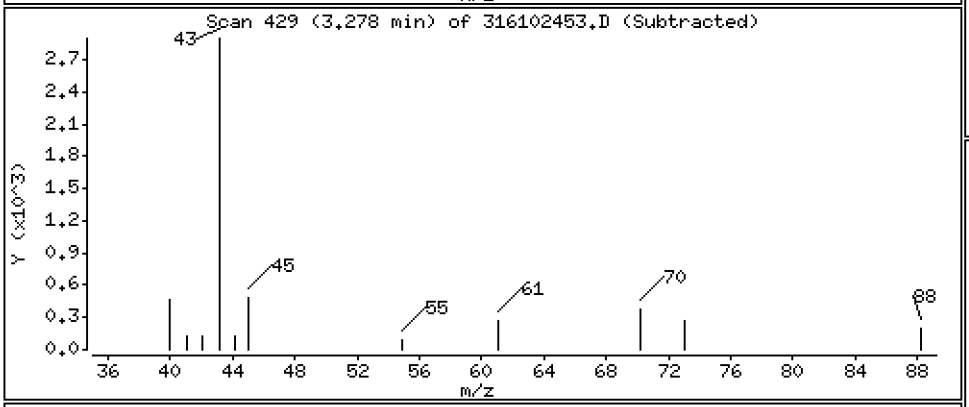
Sample Info: VSTD00.5;;1;1;8;;;

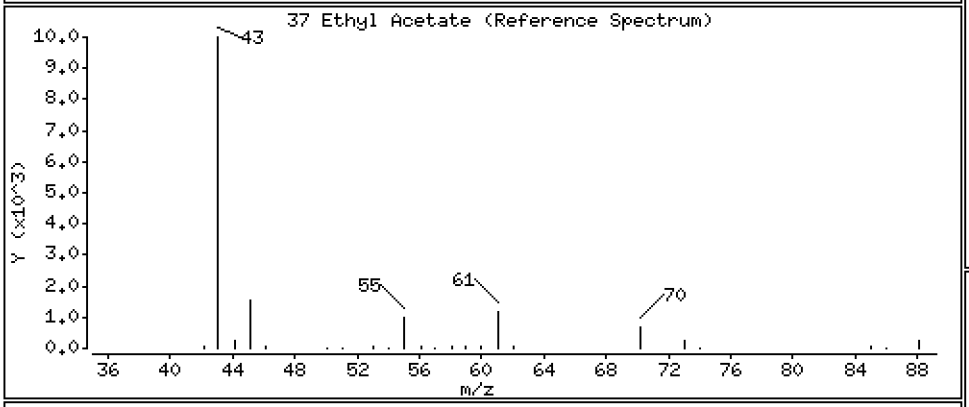
Purge Volume: 5.0 Operator: CJG

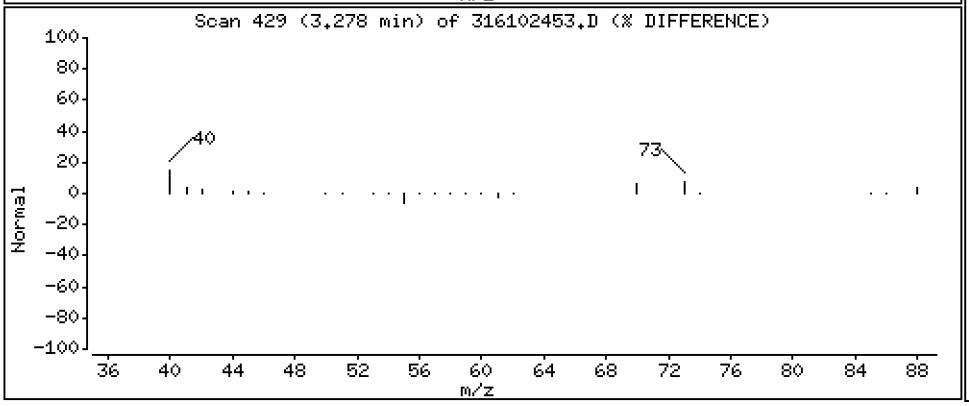
Column phase: DB-VRX Column diameter: 0.25

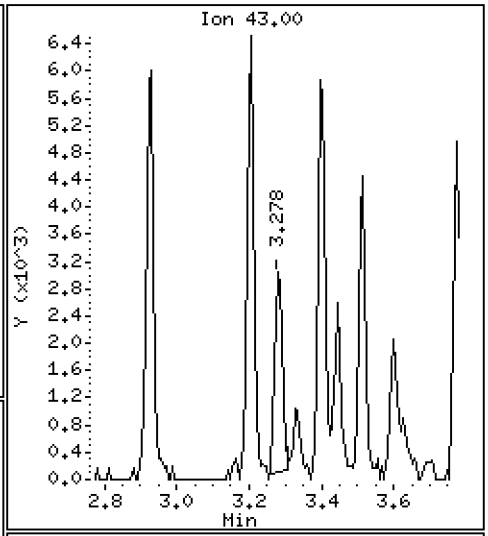
37 Ethyl Acetate Concentration: 0.534638 ug/L

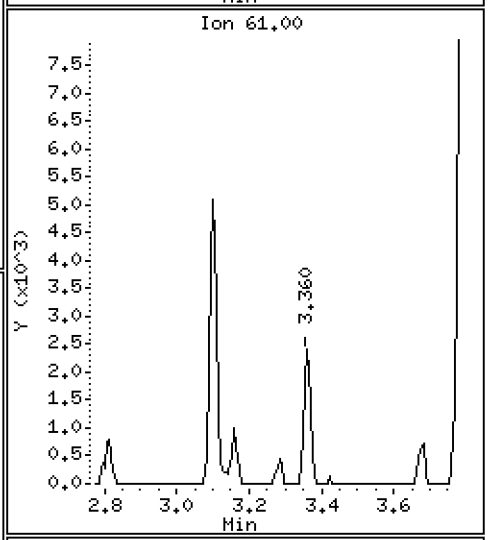


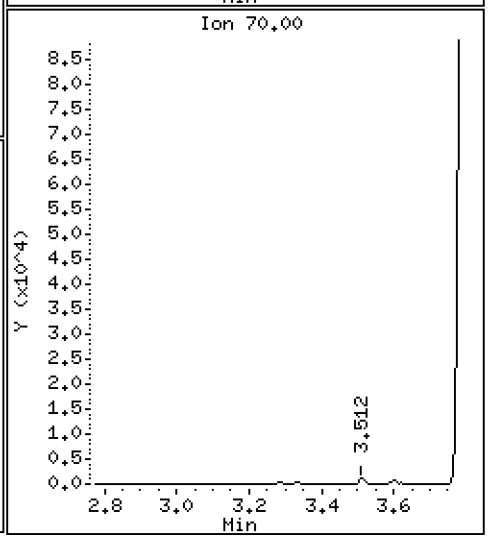












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 46

Date : 24-OCT-2016 23:25

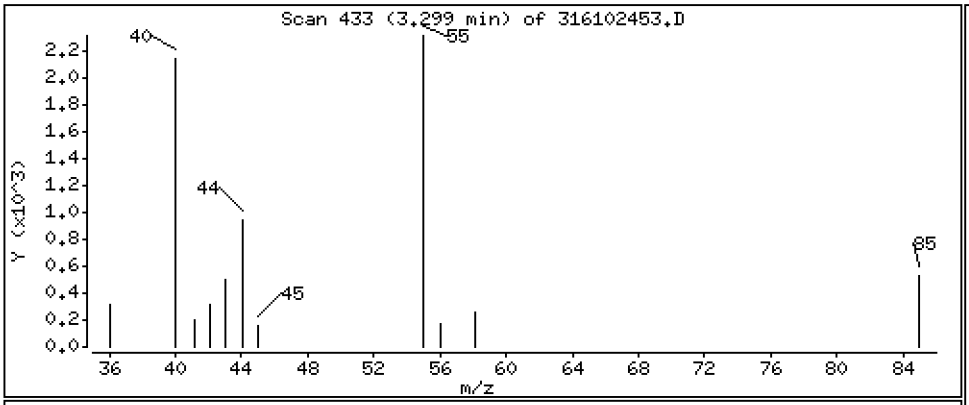
Client ID: Instrument: ms03.i

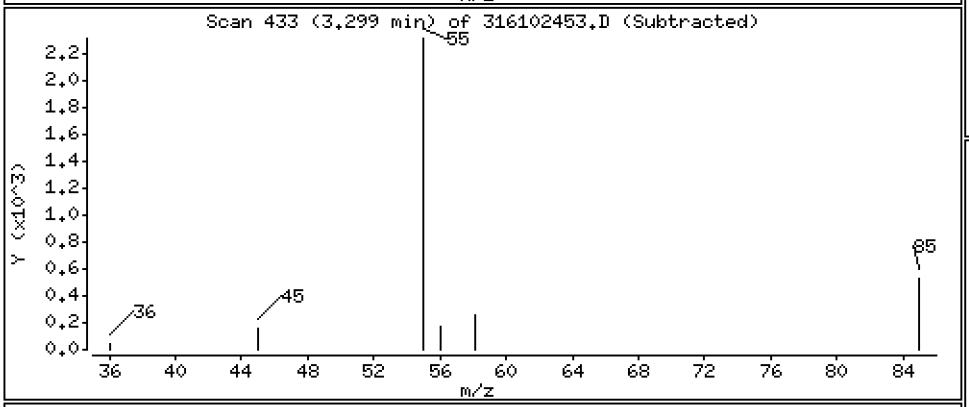
Sample Info: VSTD00.5;;1;1;8;;;

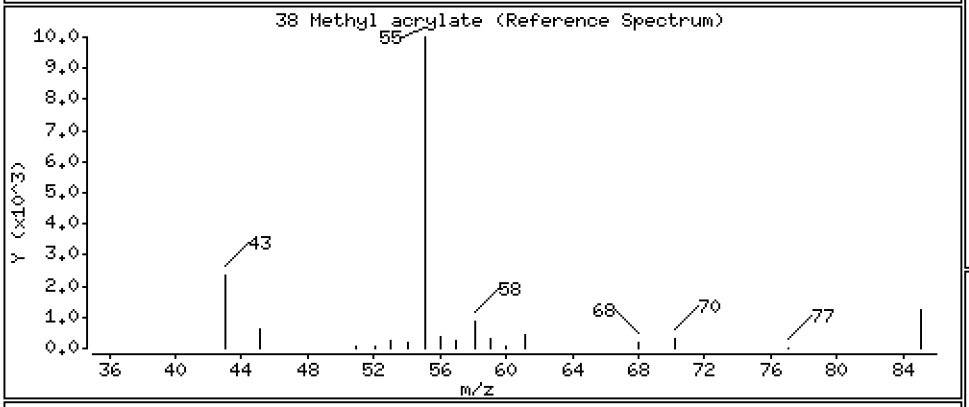
Purge Volume: 5.0 Operator: CJG

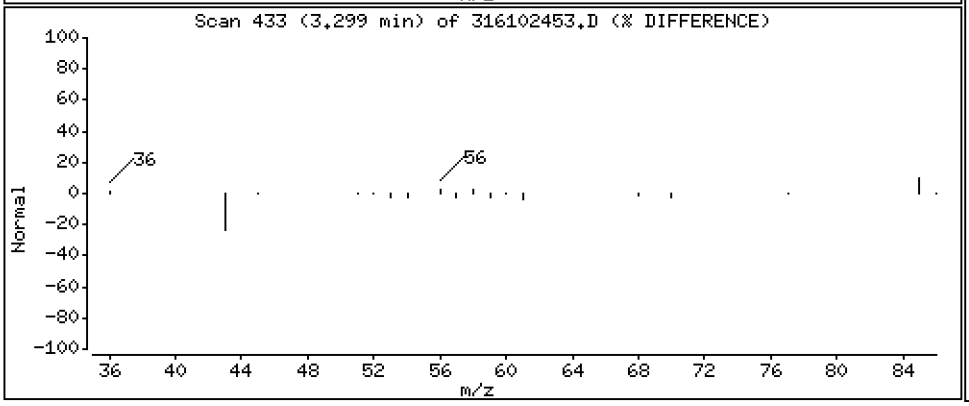
Column phase: DB-VRX Column diameter: 0.25

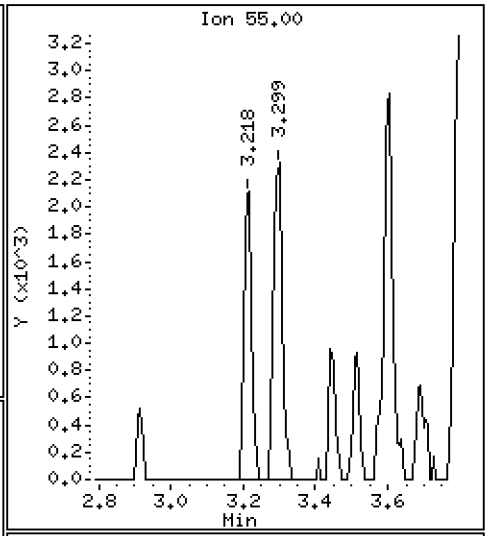
38 Methyl acrylate Concentration: 0.503452 ug/L

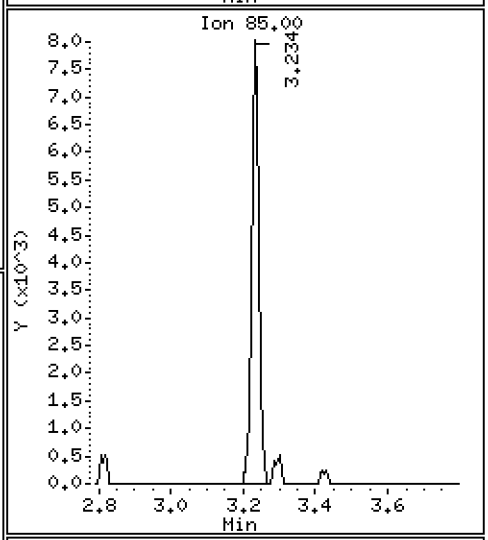


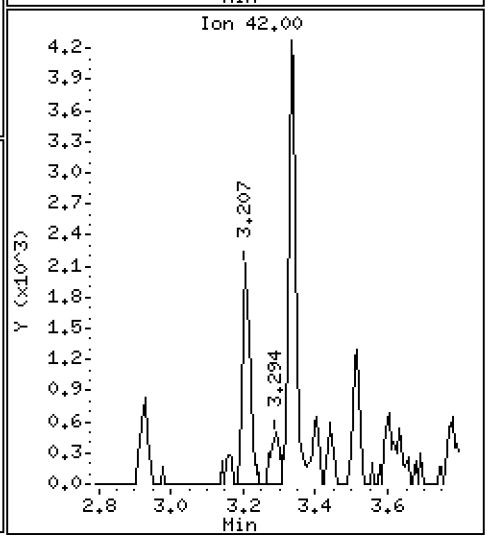












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 47

Date : 24-OCT-2016 23:25

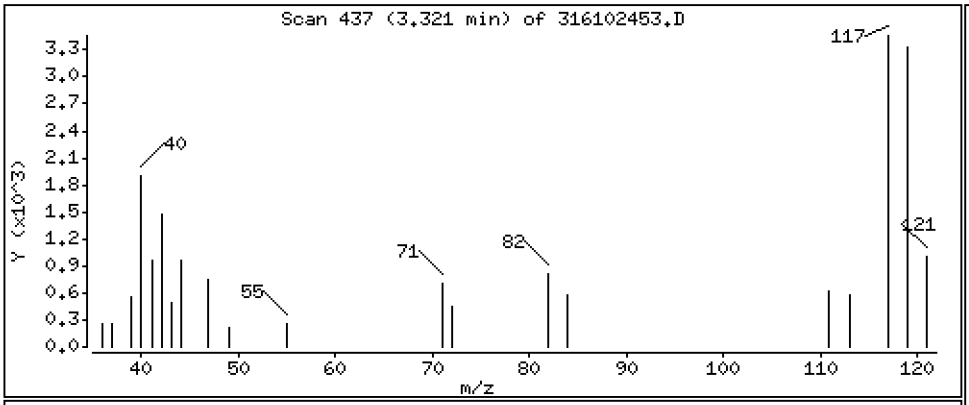
Client ID: Instrument: ms03.i

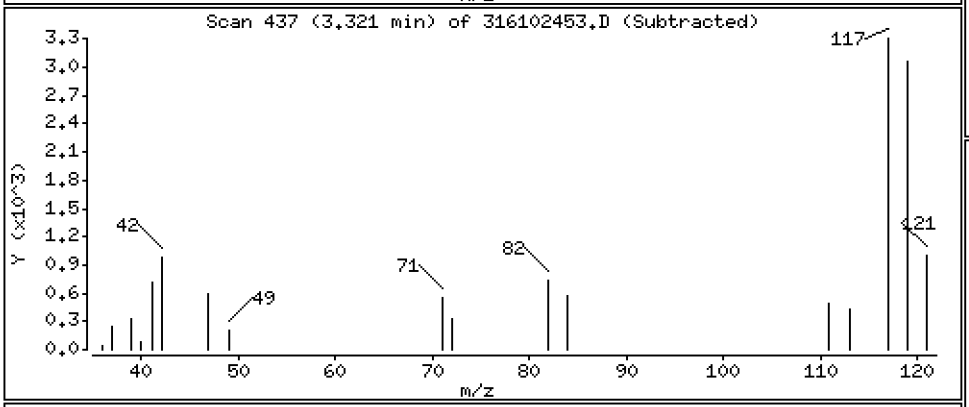
Sample Info: VSTD00.5;;1;1;8;;;

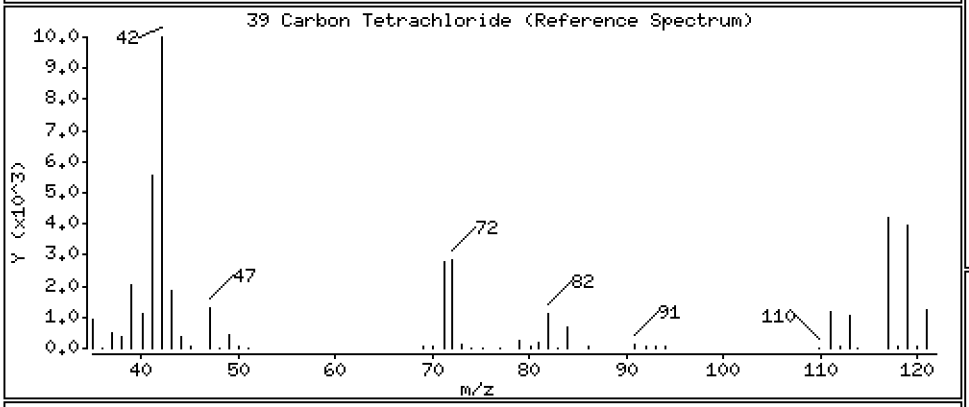
Purge Volume: 5.0 Operator: CJG

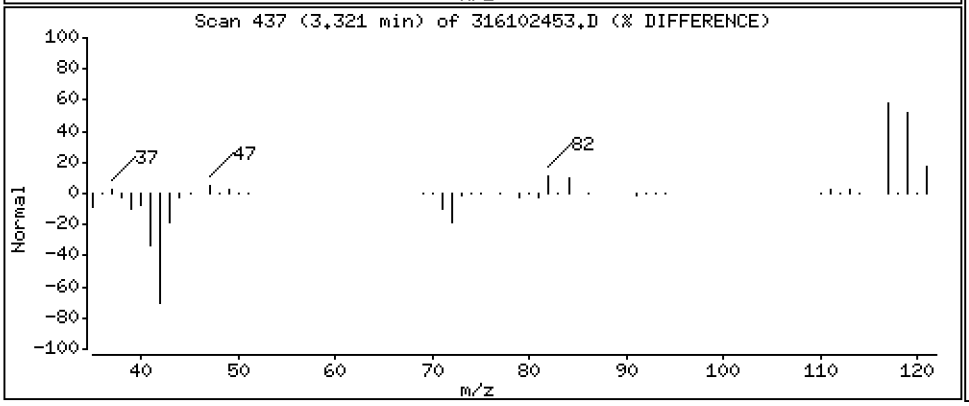
Column phase: DB-VRX Column diameter: 0.25

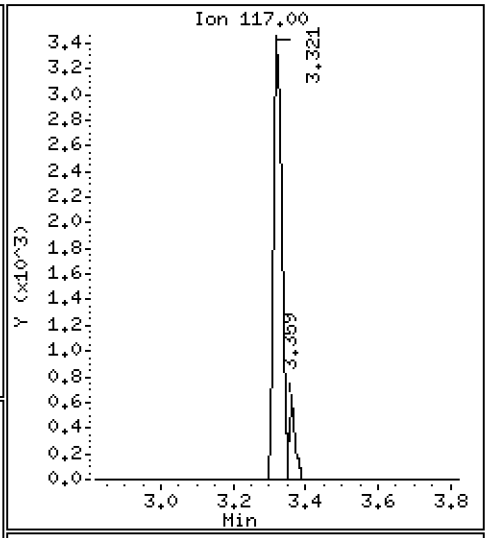
39 Carbon Tetrachloride Concentration: 0.600066 ug/L

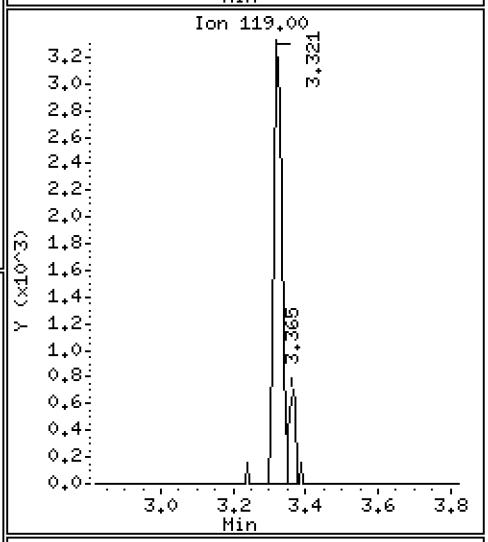


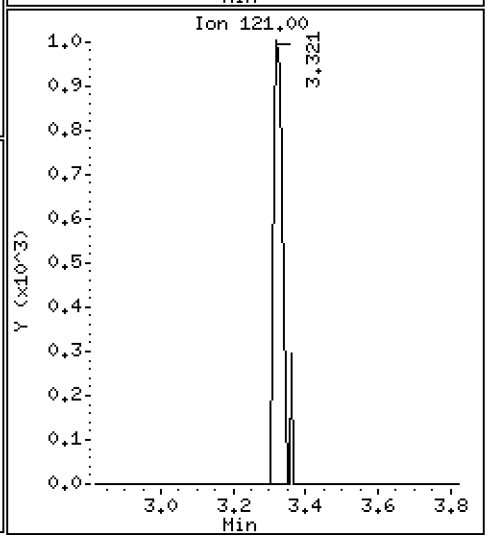












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 48

Date : 24-OCT-2016 23:25

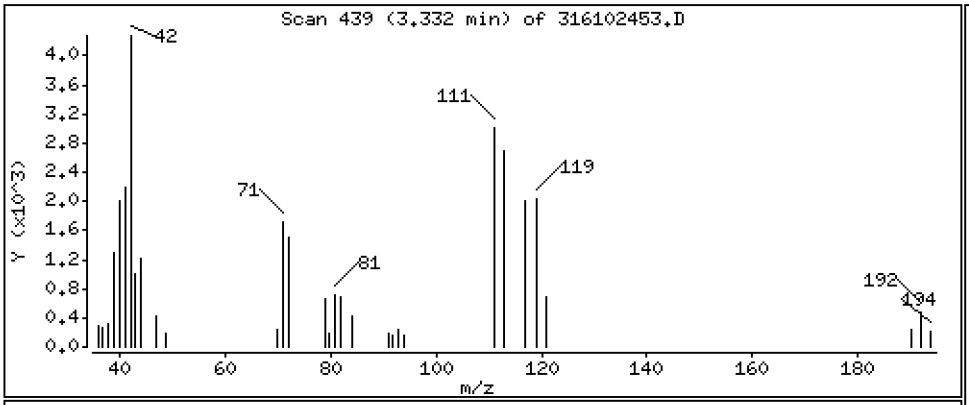
Client ID: Instrument: ms03.i

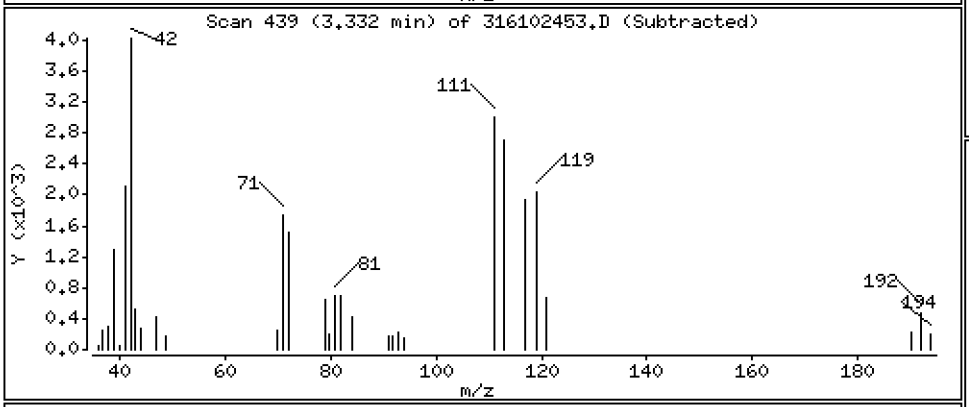
Sample Info: VSTD00.5;;1;1;8;;;

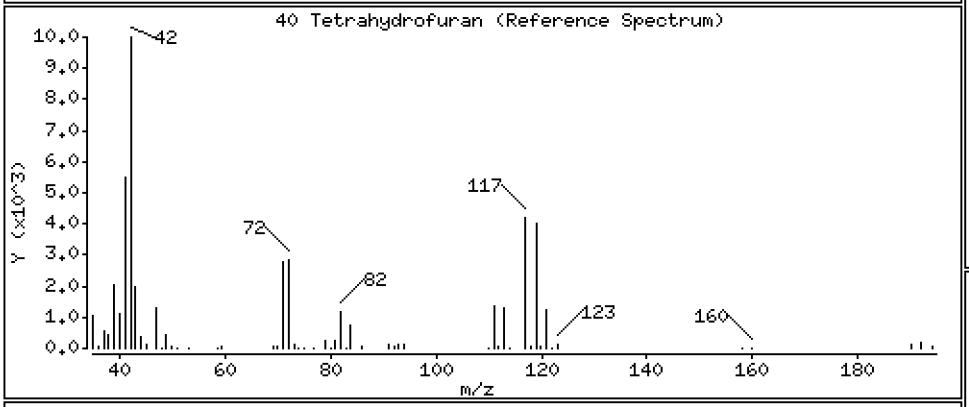
Purge Volume: 5.0 Operator: CJG

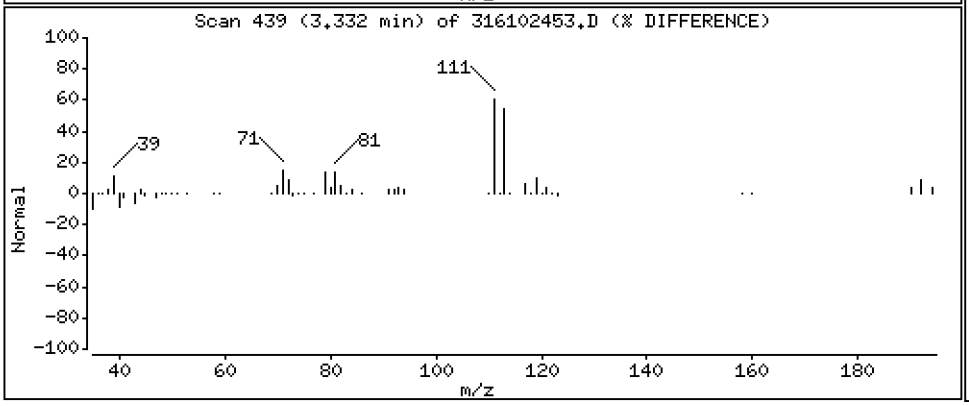
Column phase: DB-VRX Column diameter: 0.25

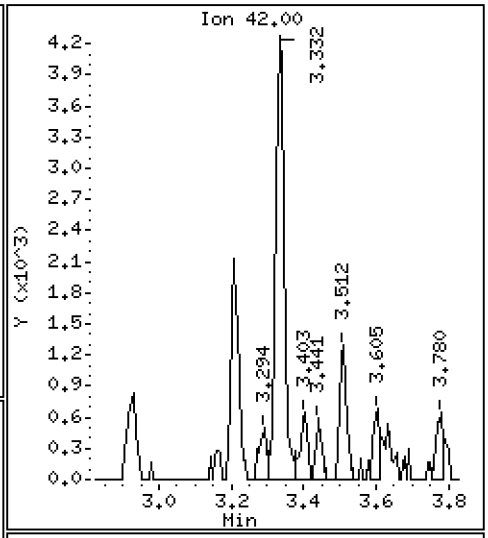
40 Tetrahydrofuran Concentration: 2.80663 ug/L

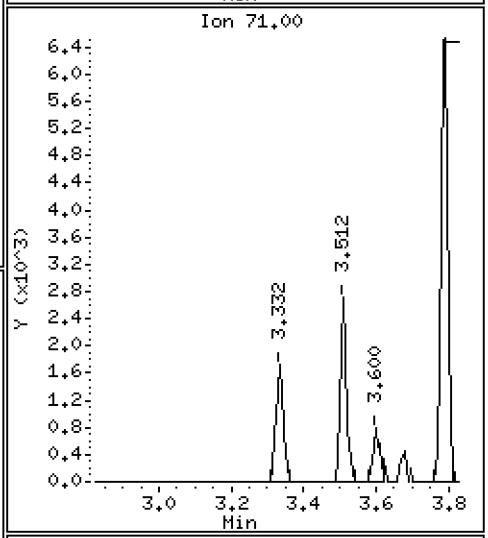


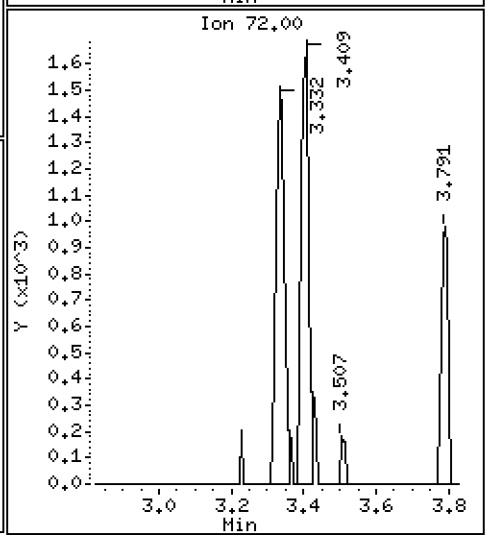












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 49

Date : 24-OCT-2016 23:25

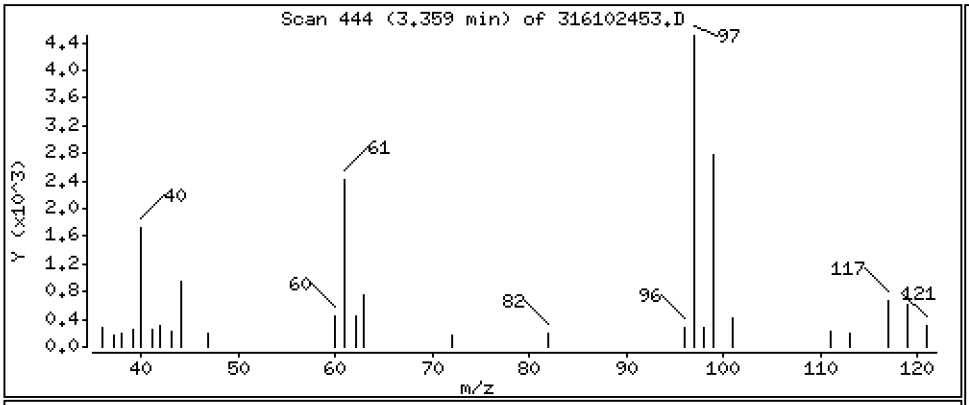
Client ID: Instrument: ms03.i

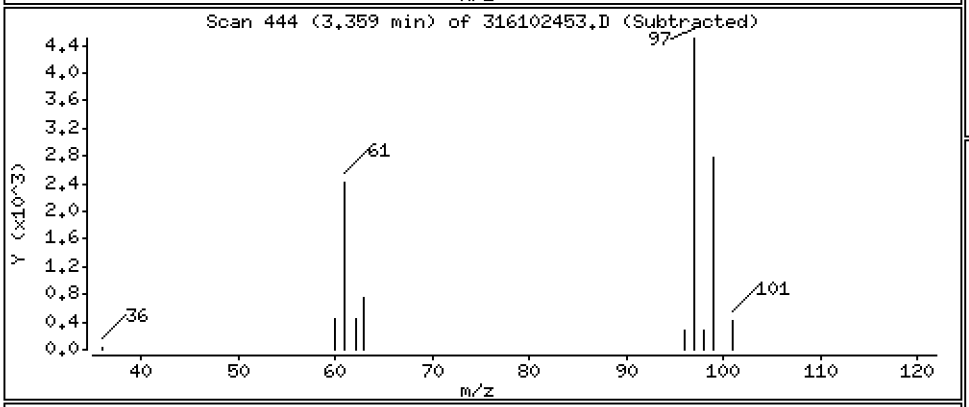
Sample Info: VSTD00.5;;1;1;8;;;

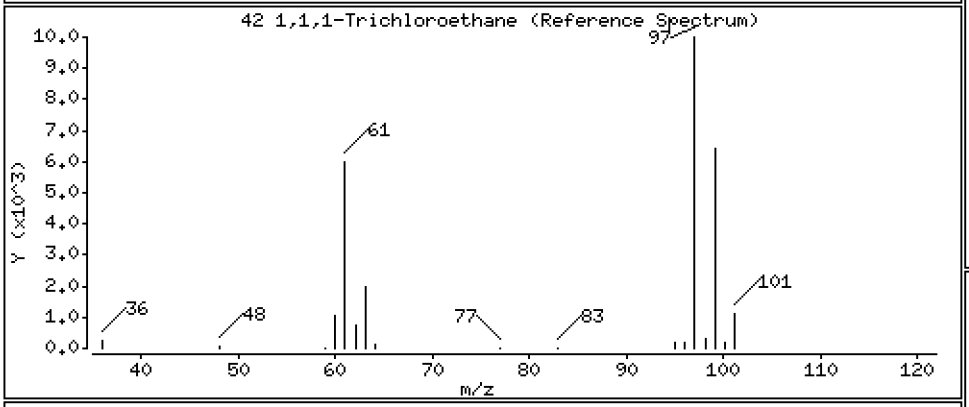
Purge Volume: 5.0 Operator: CJG

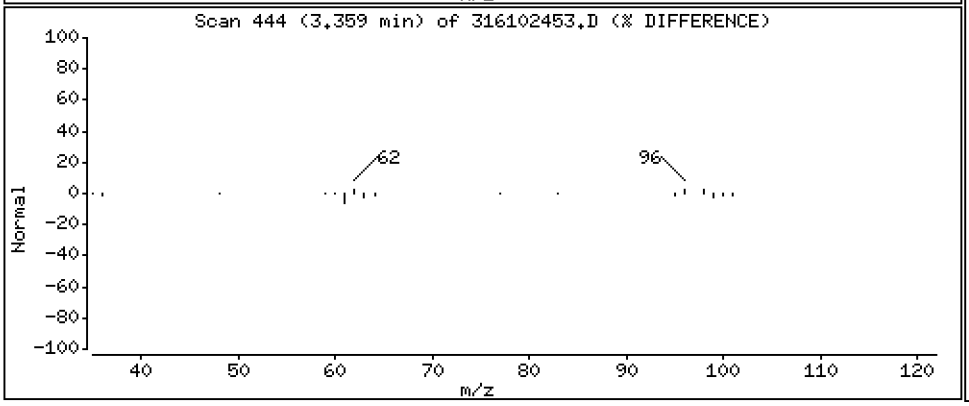
Column phase: DB-VRX Column diameter: 0.25

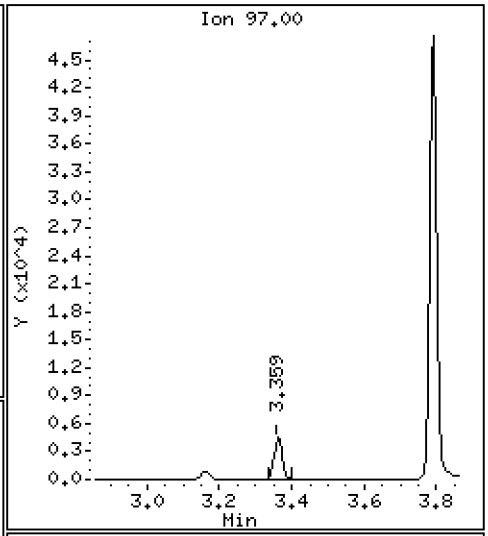
42 1,1,1-Trichloroethane Concentration: 0.562248 ug/L

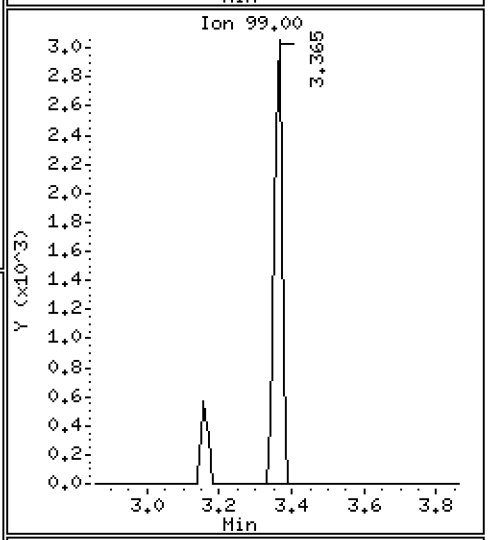


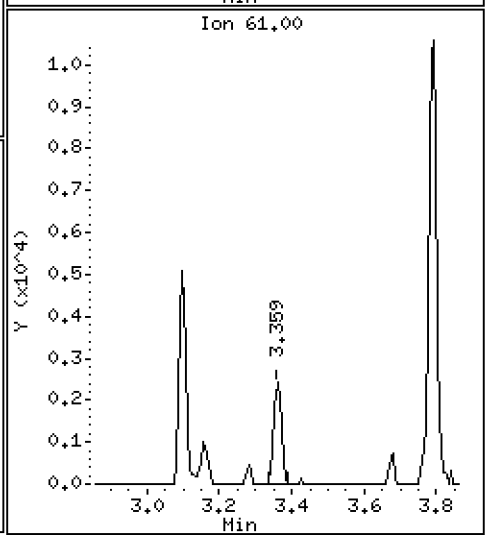












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 50

Date : 24-OCT-2016 23:25

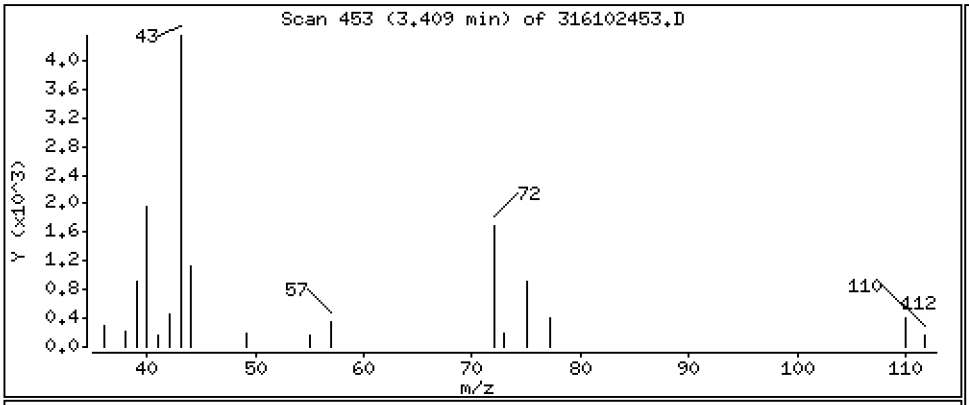
Client ID: Instrument: ms03.i

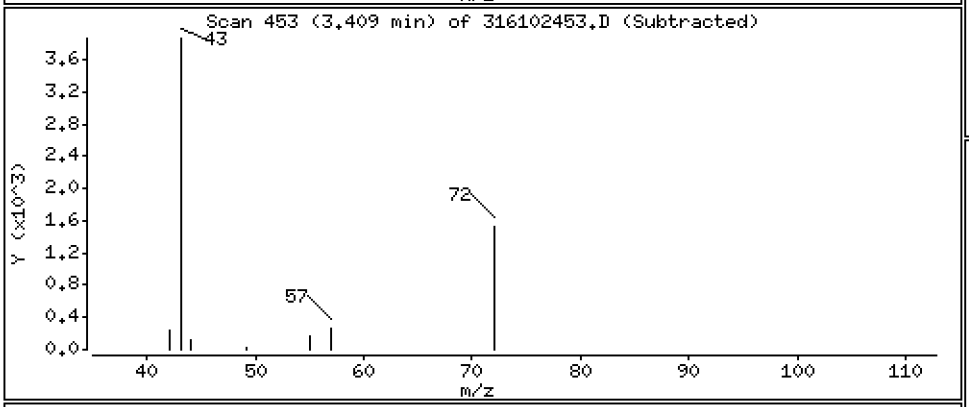
Sample Info: VSTD00.5;;1;1;8;;;

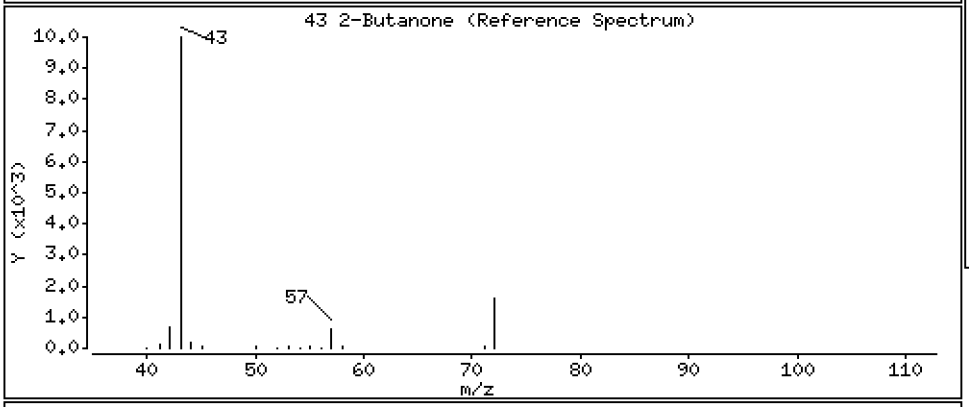
Purge Volume: 5.0 Operator: CJG

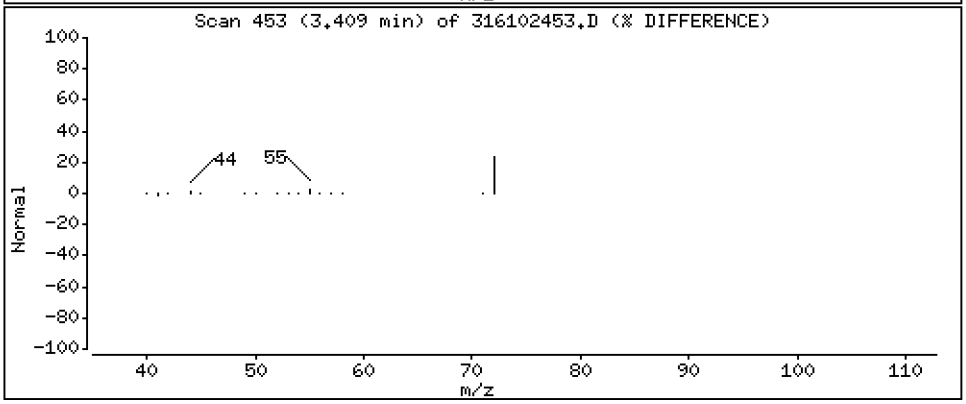
Column phase: DB-VRX Column diameter: 0.25

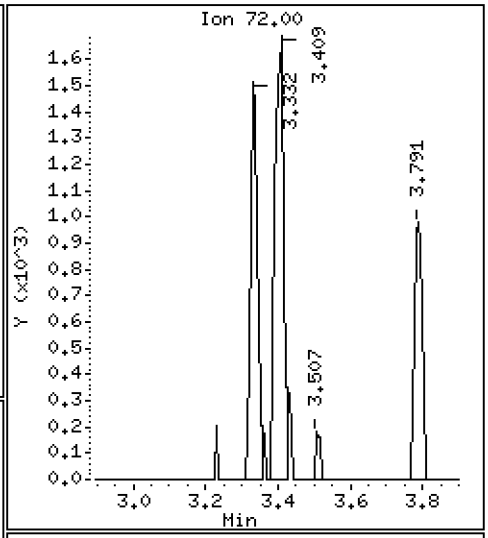
43 2-Butanone Concentration: 2.79648 ug/L

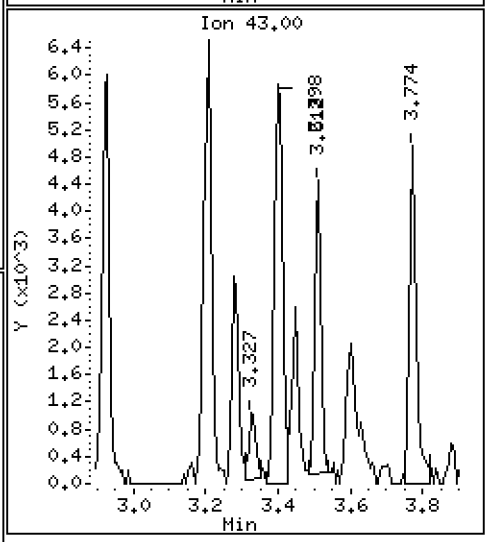












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 51

Date : 24-OCT-2016 23:25

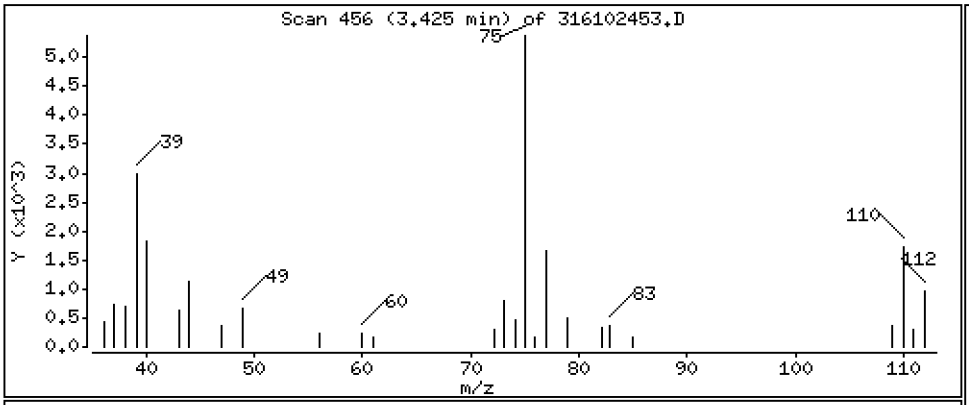
Client ID: Instrument: ms03.i

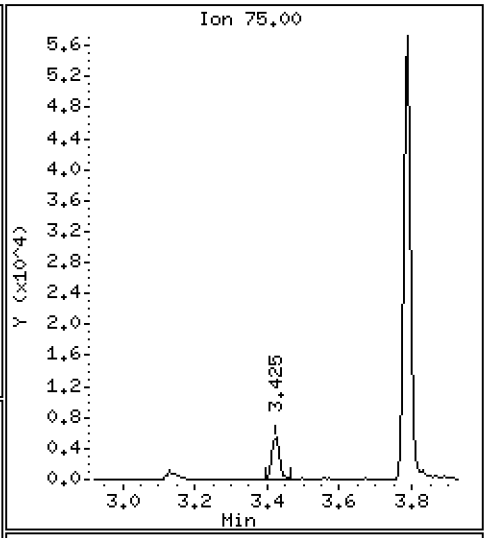
Sample Info: VSTD00.5;;1;1;8;;;

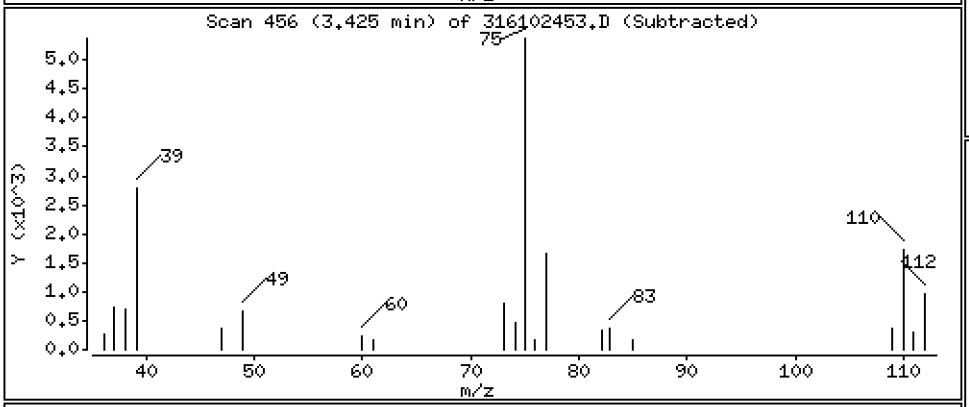
Purge Volume: 5.0 Operator: CJG

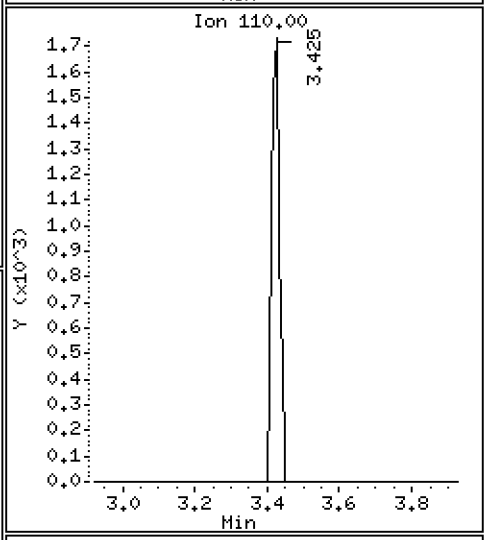
Column phase: DB-VRX Column diameter: 0.25

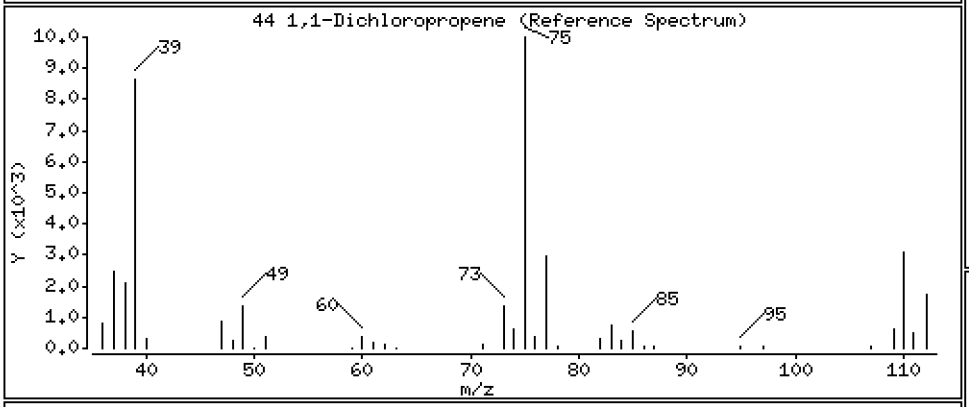
44 1,1-Dichloropropene Concentration: 0.643276 ug/L

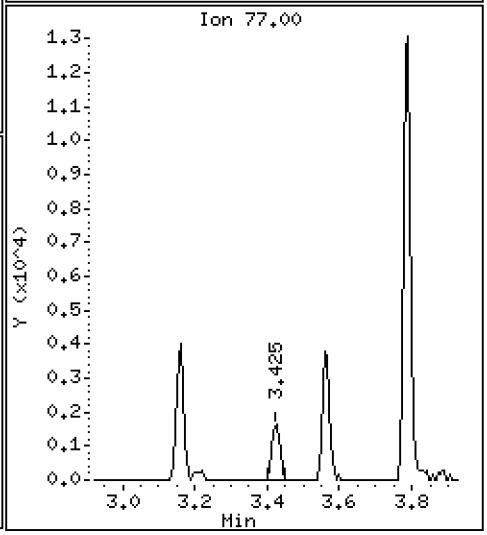


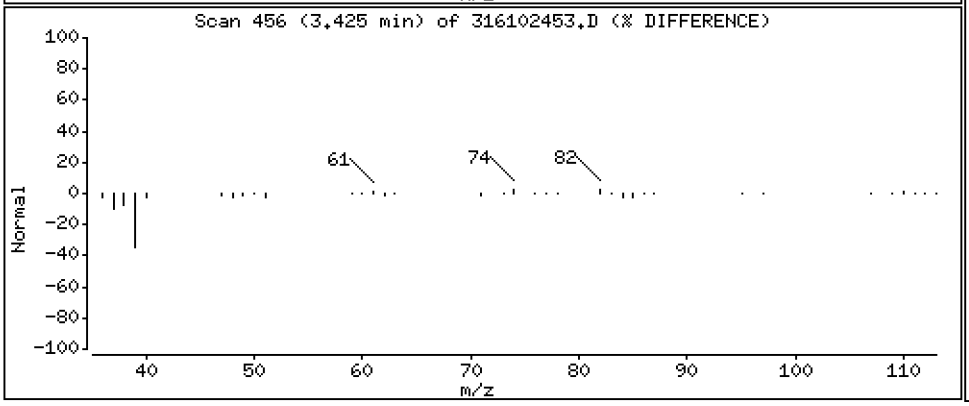












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 52

Date : 24-OCT-2016 23:25

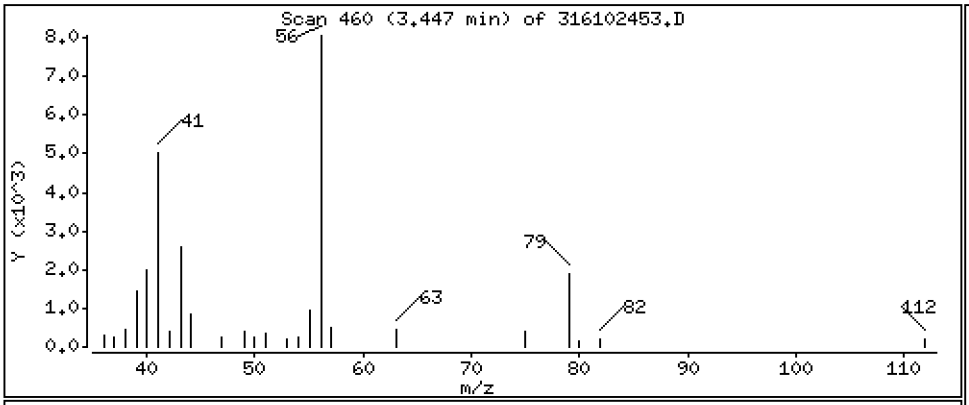
Client ID: Instrument: ms03.i

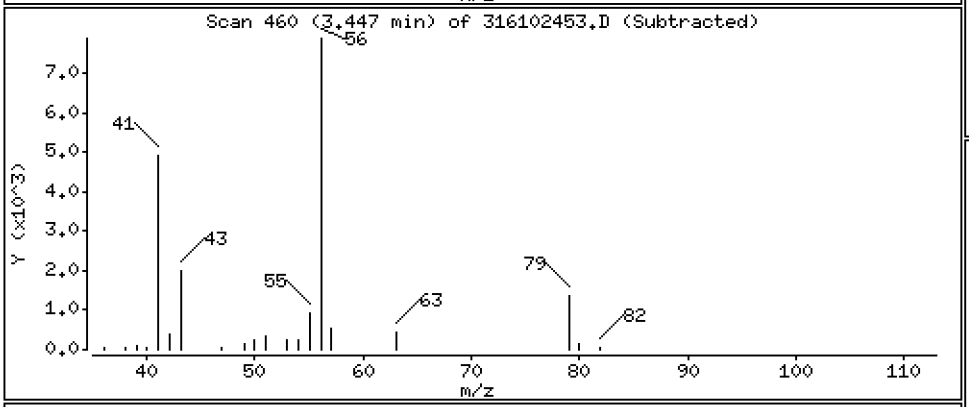
Sample Info: VSTD00.5;;1;1;8;;;

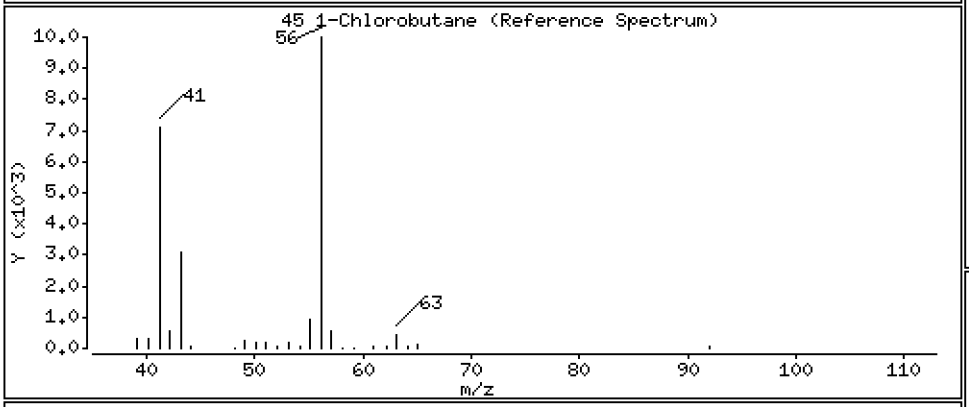
Purge Volume: 5.0 Operator: CJG

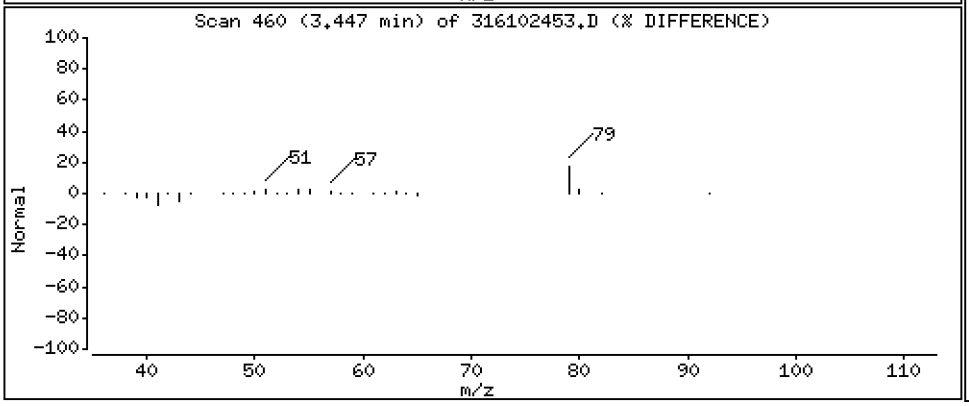
Column phase: DB-VRX Column diameter: 0.25

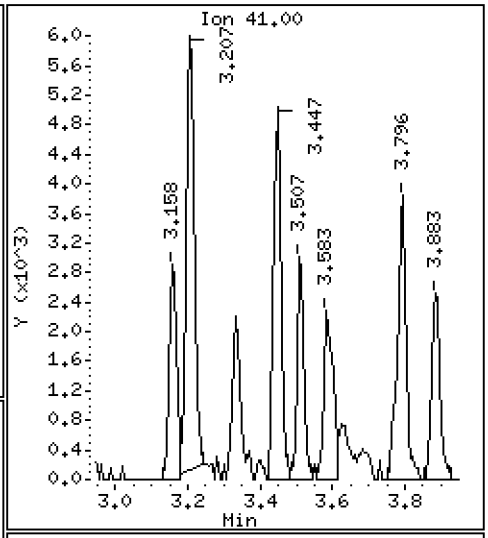
45 1-Chlorobutane Concentration: 0.711580 ug/L

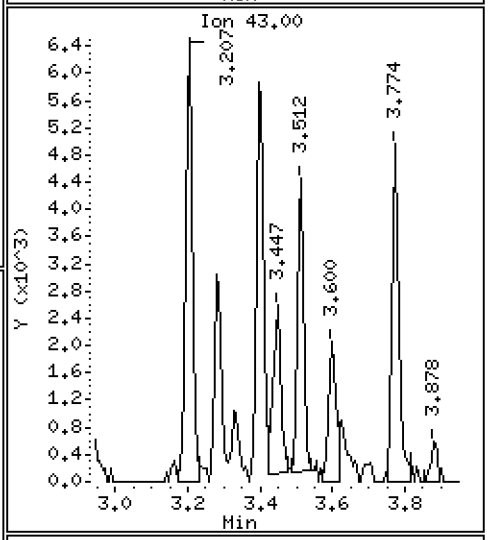


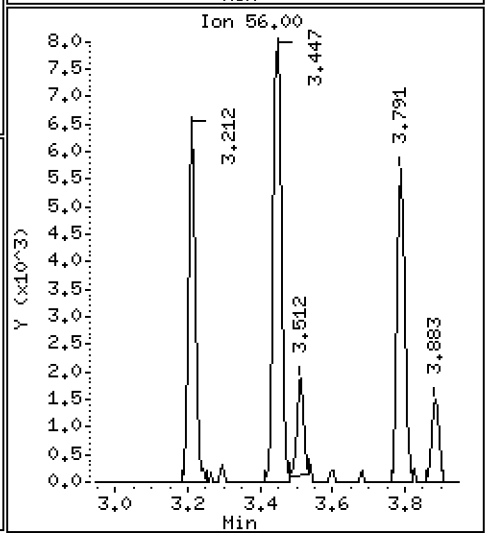












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 53

Date : 24-OCT-2016 23:25

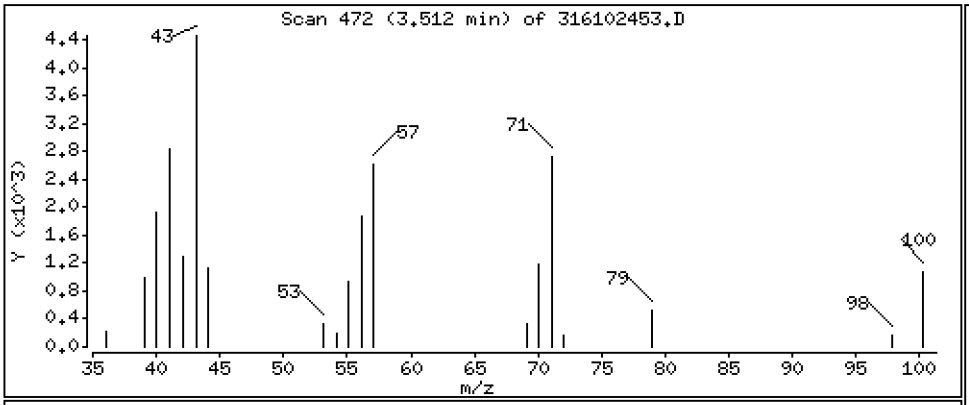
Client ID: Instrument: ms03.i

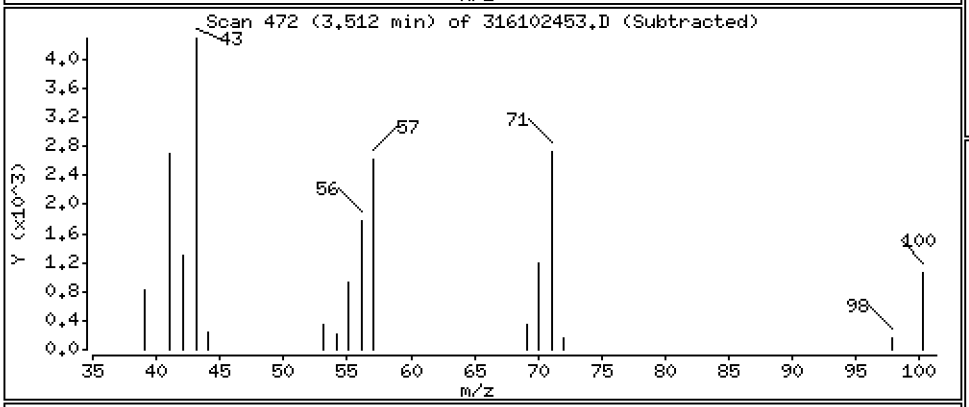
Sample Info: VSTD00.5;;1;1;8;;;

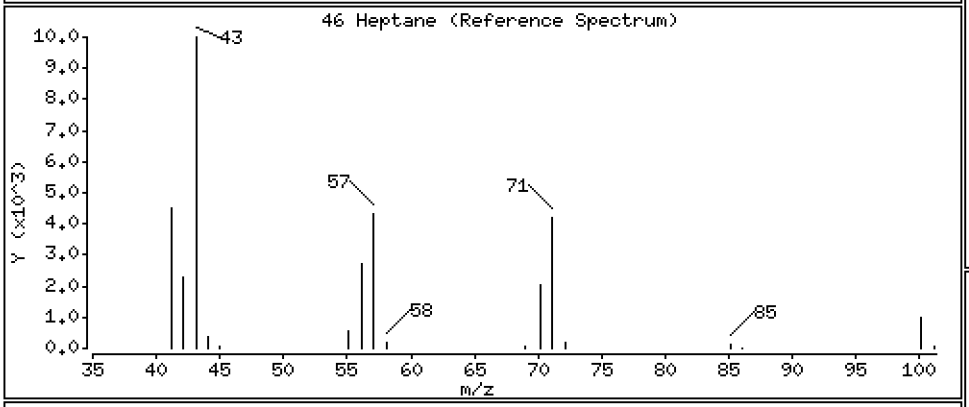
Purge Volume: 5.0 Operator: CJG

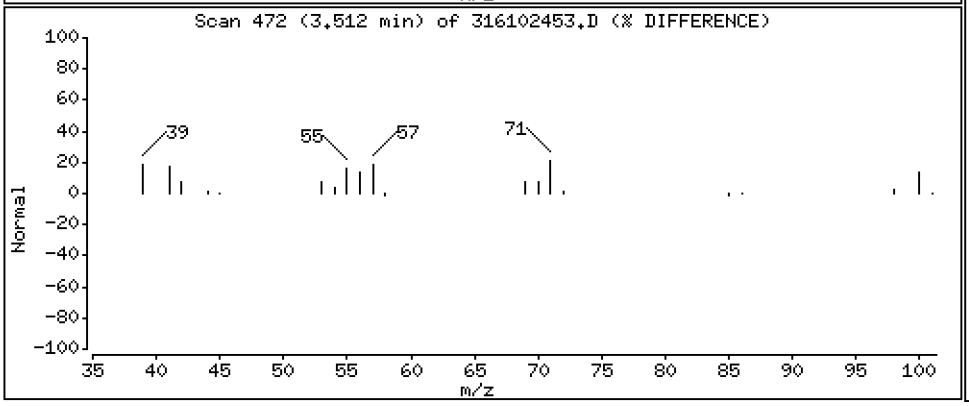
Column phase: DB-VRX Column diameter: 0.25

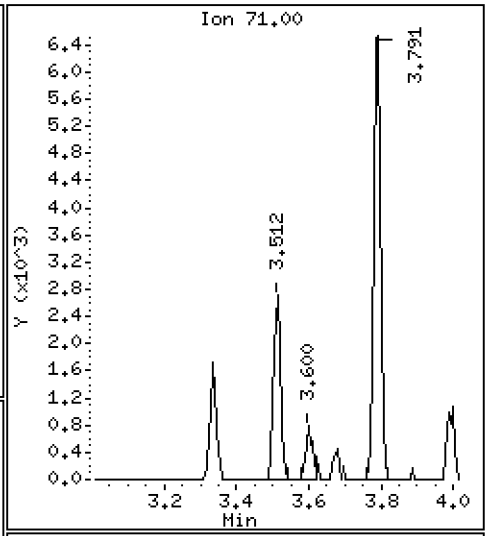
46 Heptane Concentration: 0.601876 ug/L

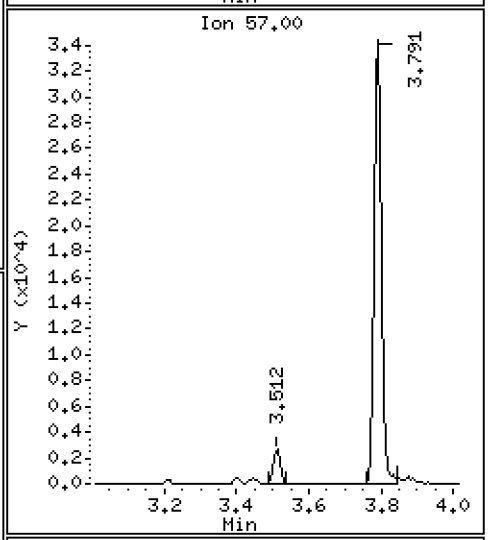


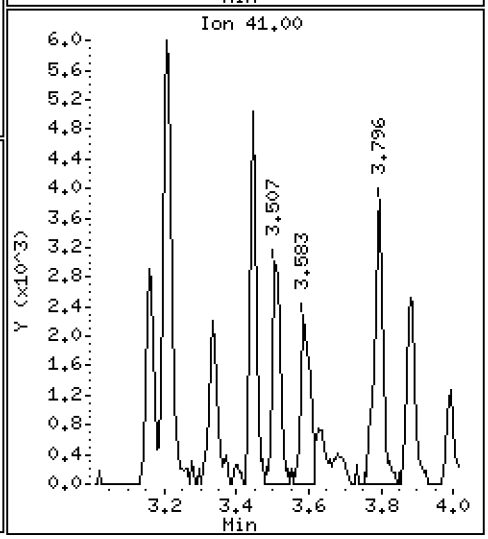












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 54

Date : 24-OCT-2016 23:25

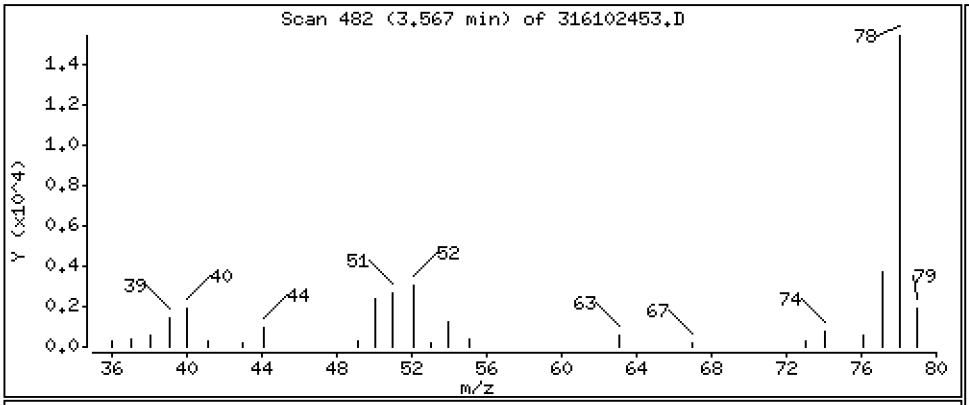
Client ID: Instrument: ms03.i

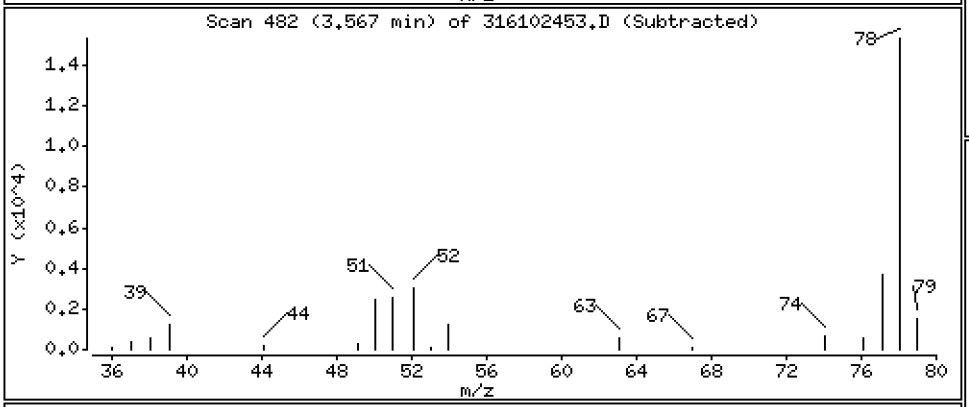
Sample Info: VSTD00.5;;1;1;8;;;

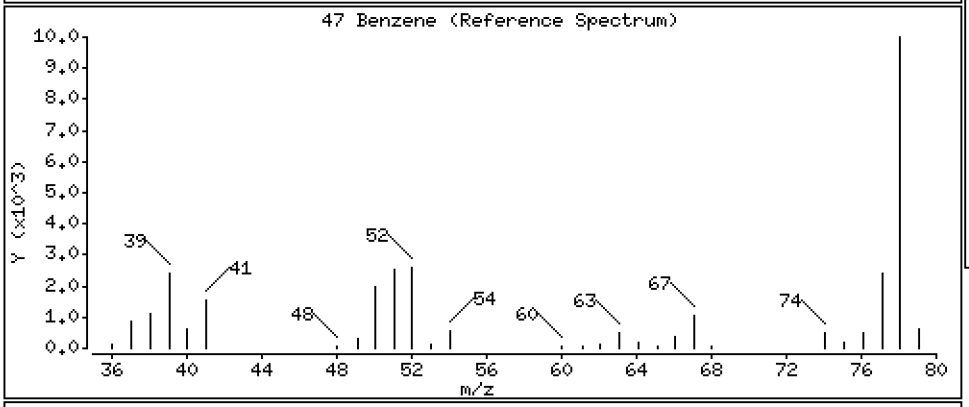
Purge Volume: 5.0 Operator: CJG

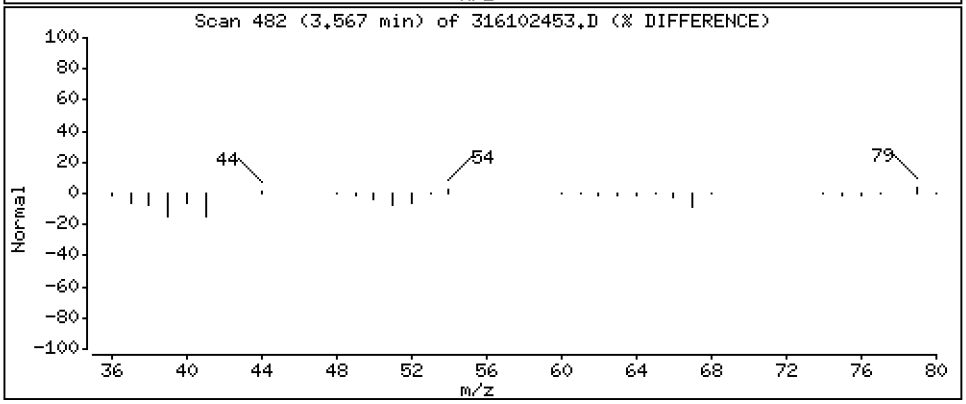
Column phase: DB-VRX Column diameter: 0.25

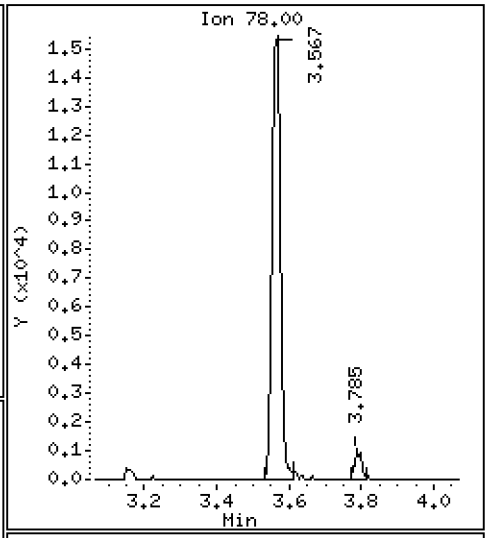
47 Benzene Concentration: 0.616890 ug/L

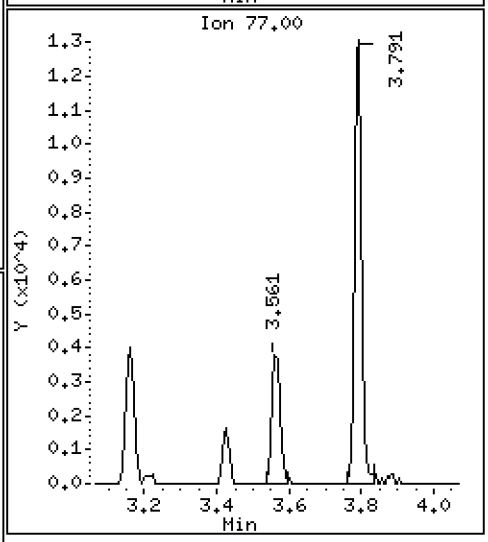












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 55

Date : 24-OCT-2016 23:25

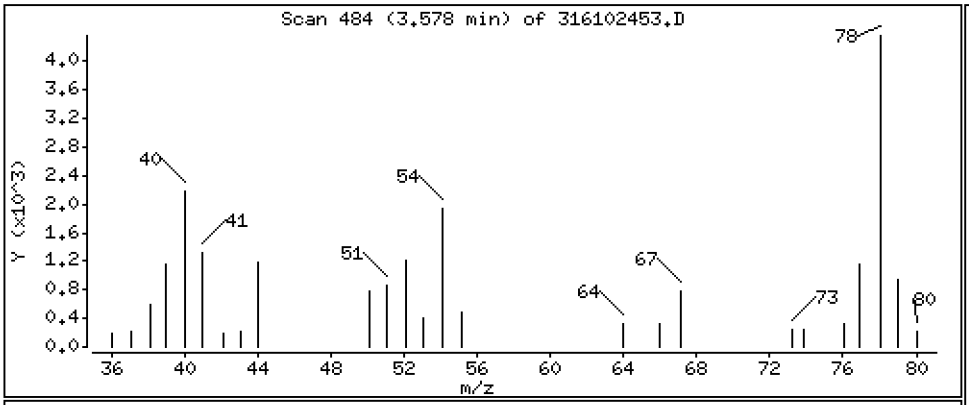
Client ID: Instrument: ms03.i

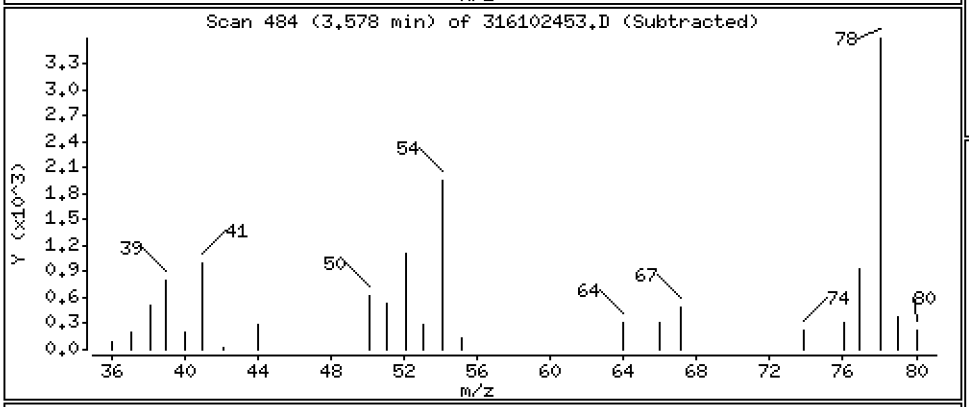
Sample Info: VSTD00.5;;1;1;8;;;

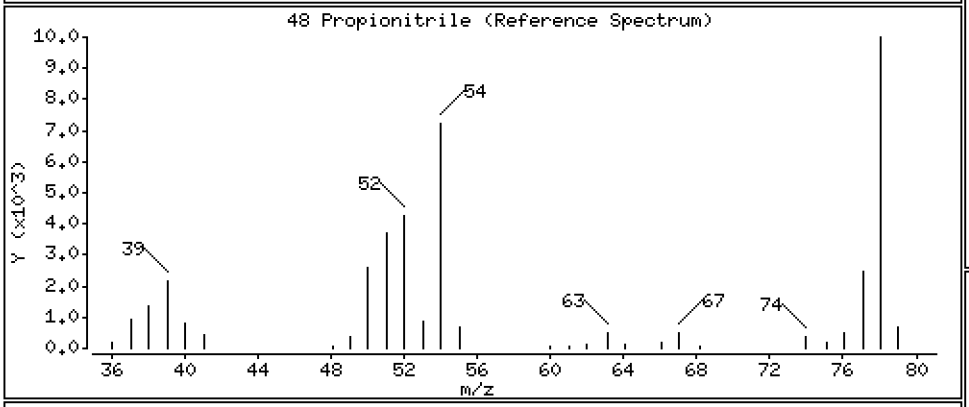
Purge Volume: 5.0 Operator: CJG

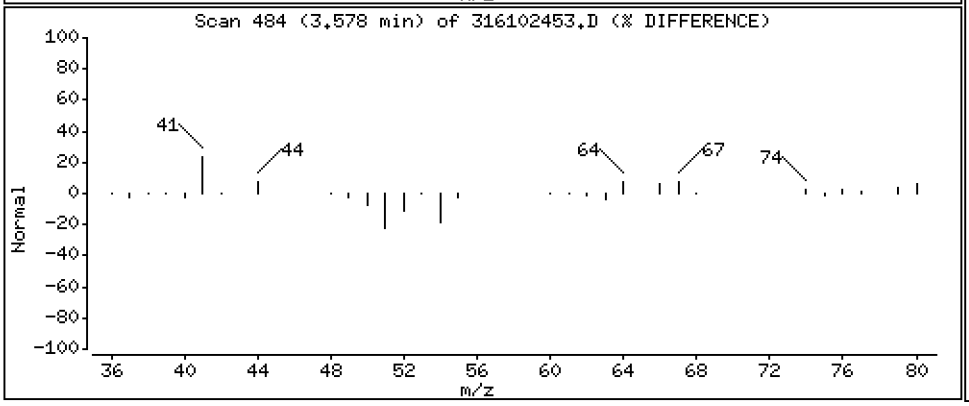
Column phase: DB-VRX Column diameter: 0.25

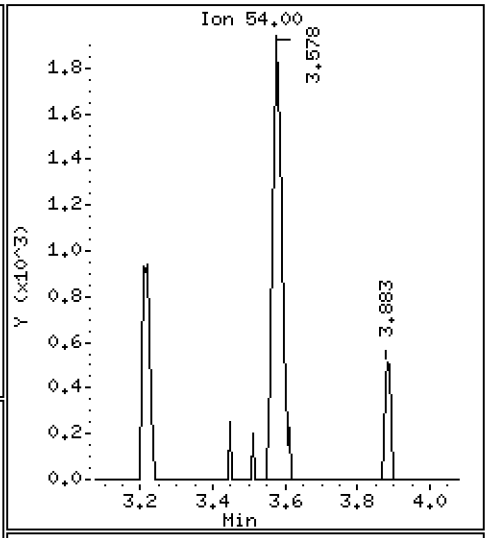
48 Propionitrile Concentration: 2.89972 ug/L

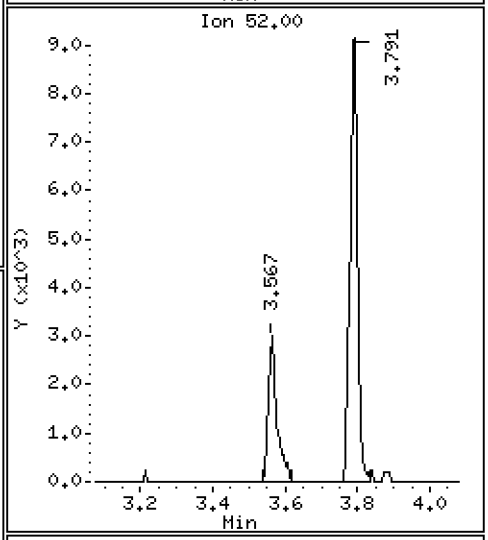


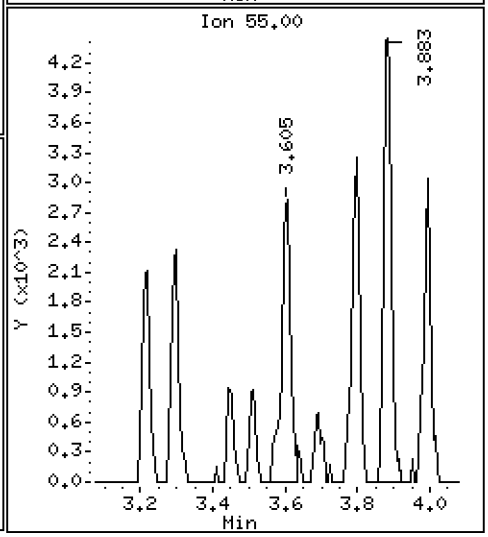












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 56

Date : 24-OCT-2016 23:25

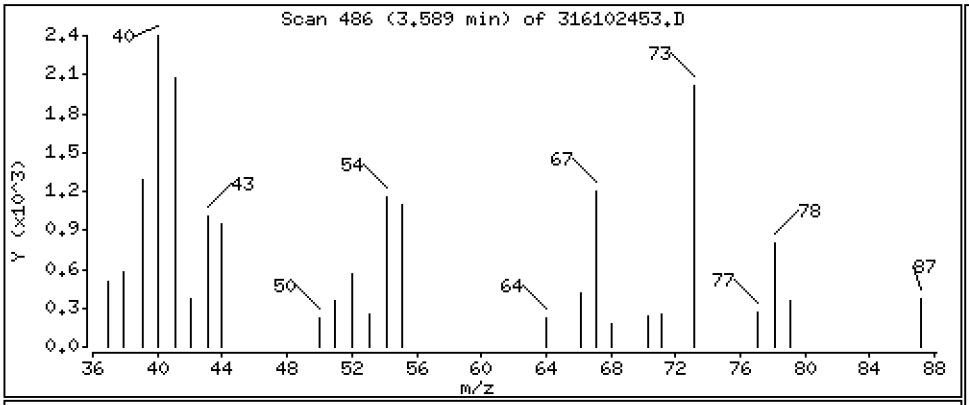
Client ID: Instrument: ms03.i

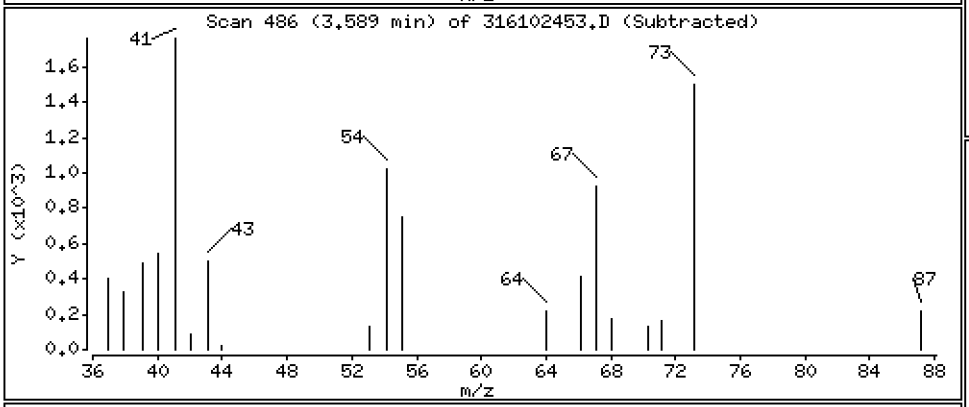
Sample Info: VSTD00.5;;1;1;8;;;

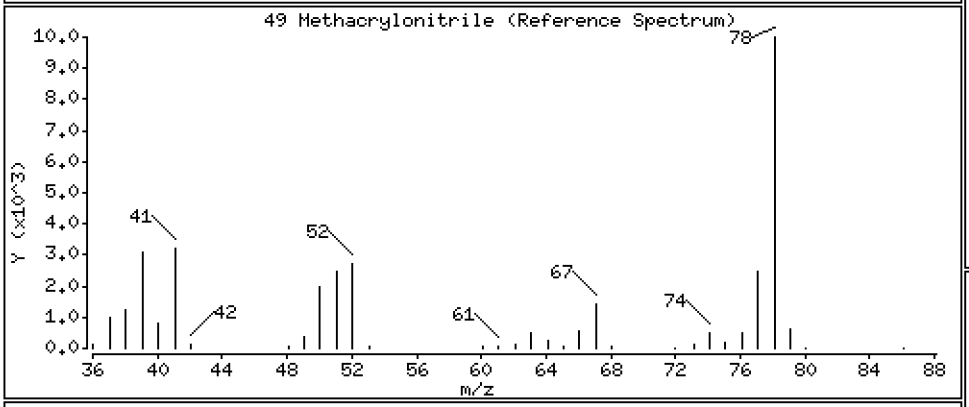
Purge Volume: 5.0 Operator: CJG

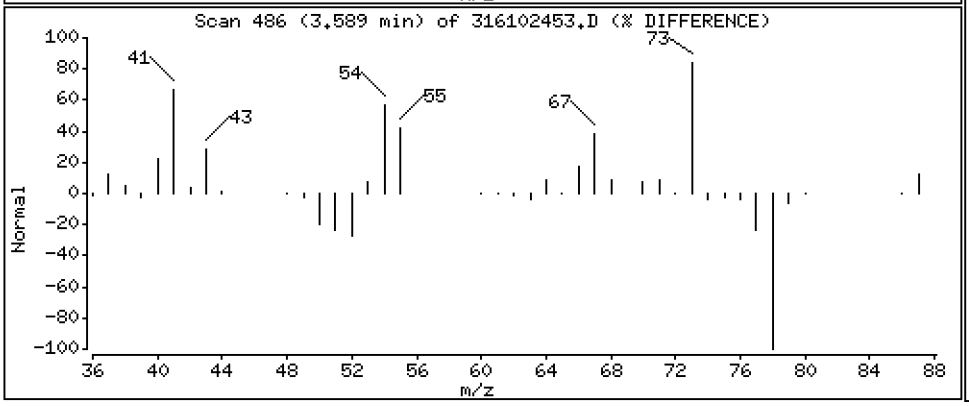
Column phase: DB-VRX Column diameter: 0.25

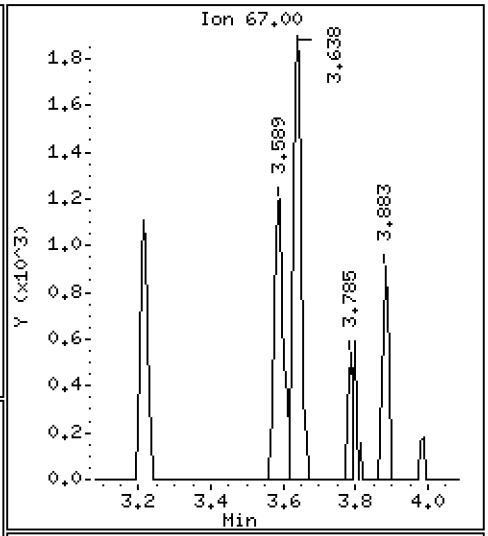
49 Methacrylonitrile Concentration: 0.602522 ug/L

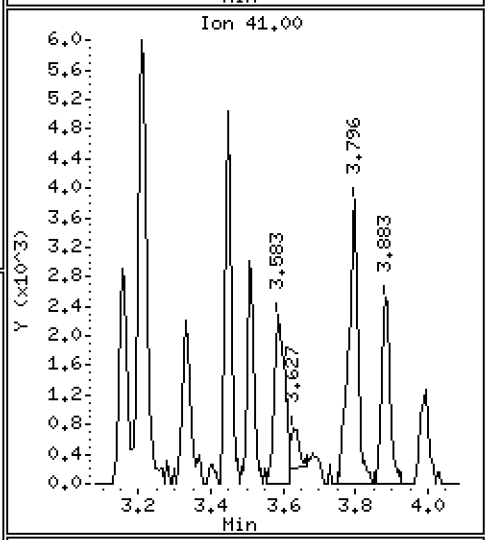


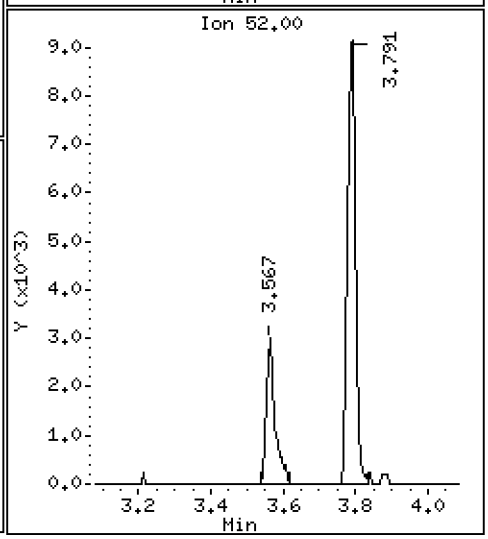












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 57

Date : 24-OCT-2016 23:25

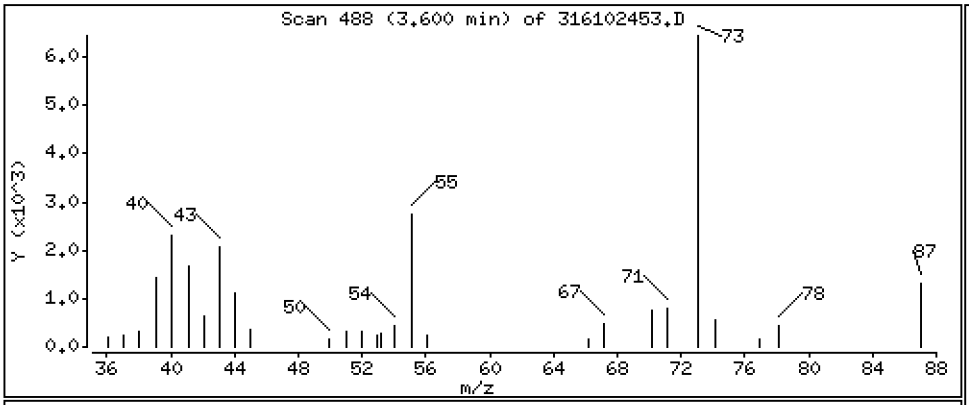
Client ID: Instrument: ms03.i

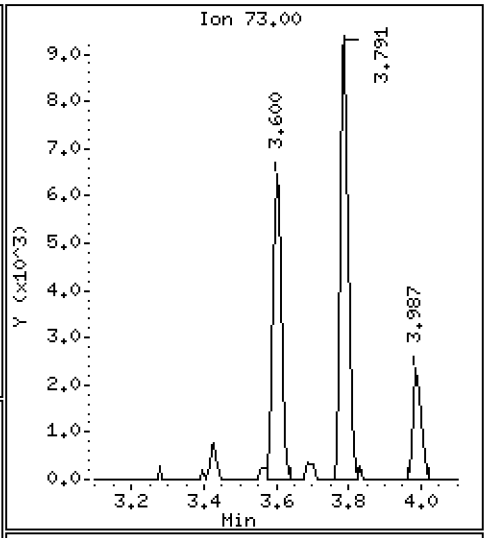
Sample Info: VSTD00.5;;1;1;8;;;

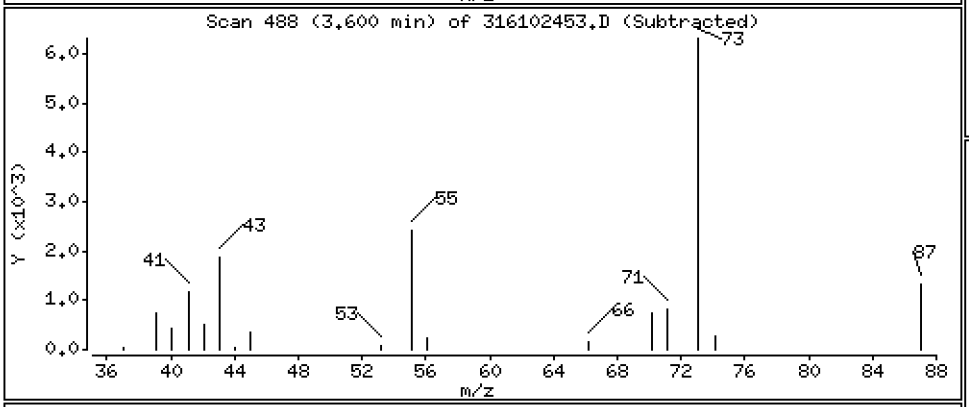
Purge Volume: 5.0 Operator: CJG

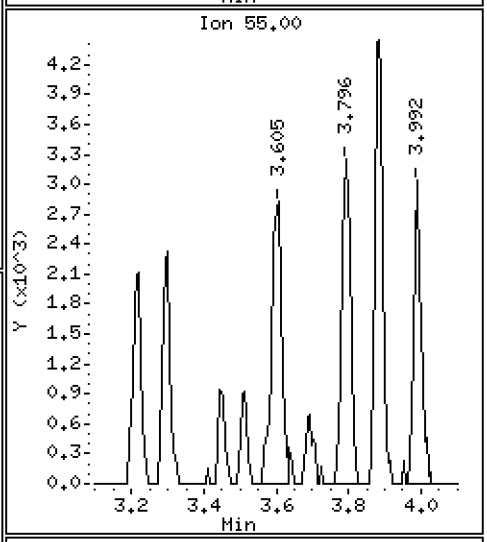
Column phase: DB-VRX Column diameter: 0.25

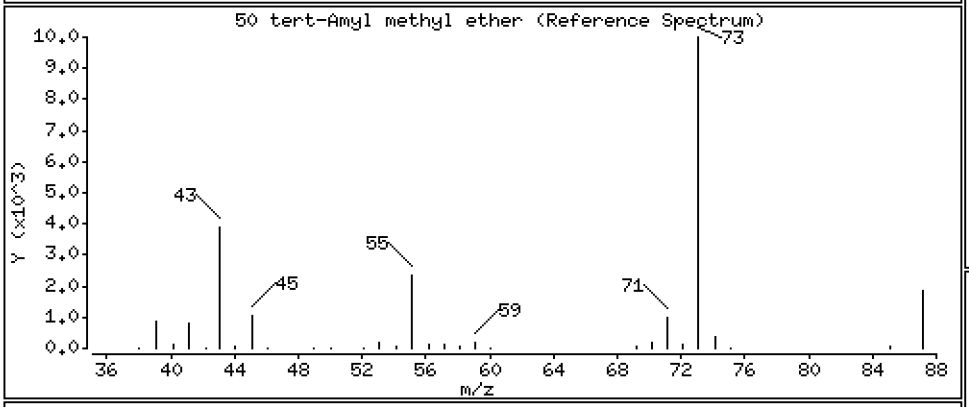
50 tert-Amyl methyl ether Concentration: 0.487597 ug/L

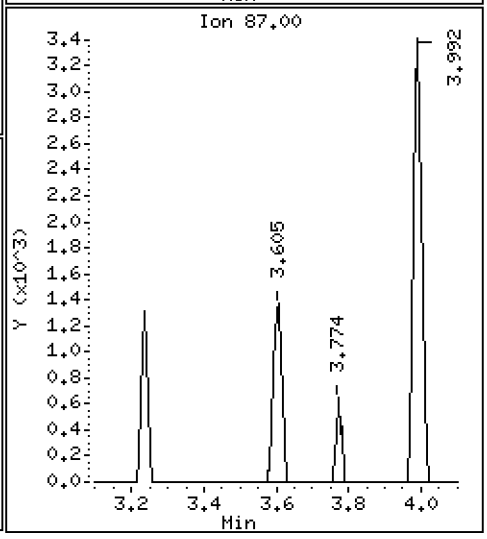


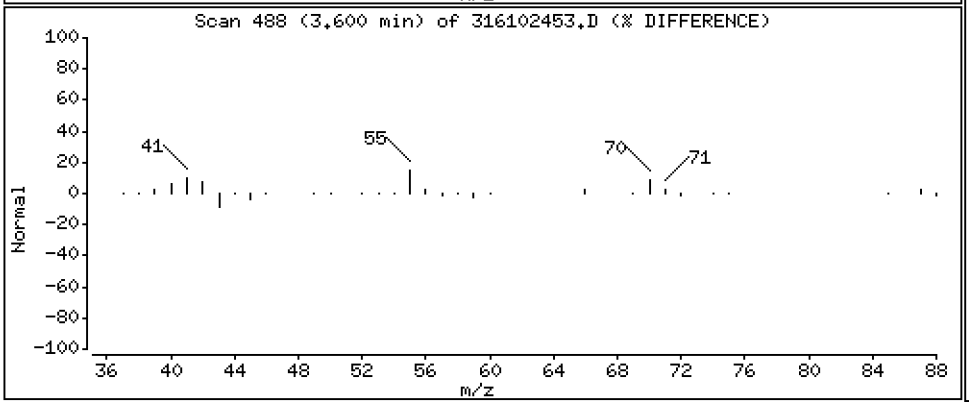












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 58

Date : 24-OCT-2016 23:25

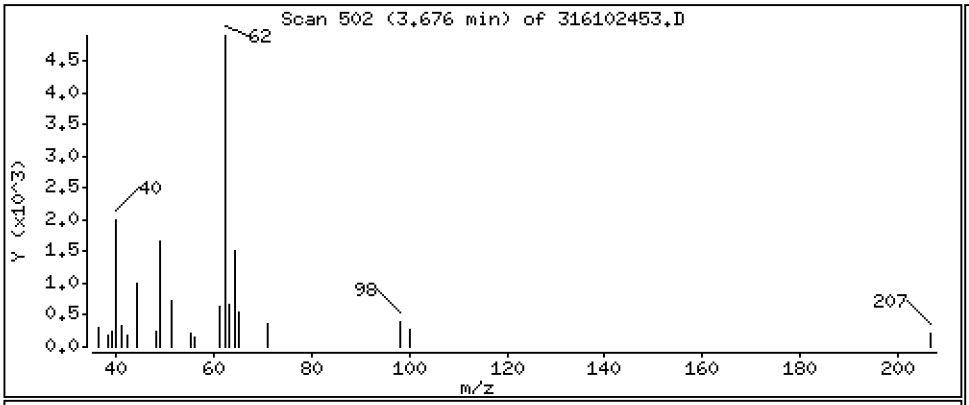
Client ID: Instrument: ms03.i

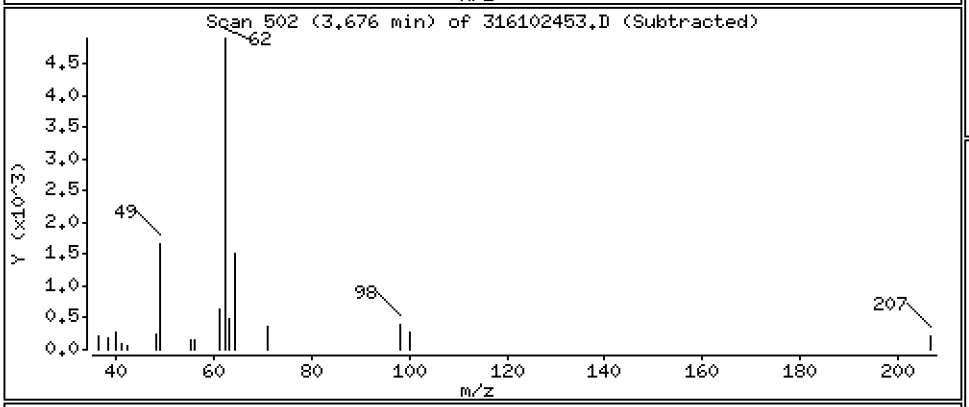
Sample Info: VSTD00.5;;1;1;8;;;

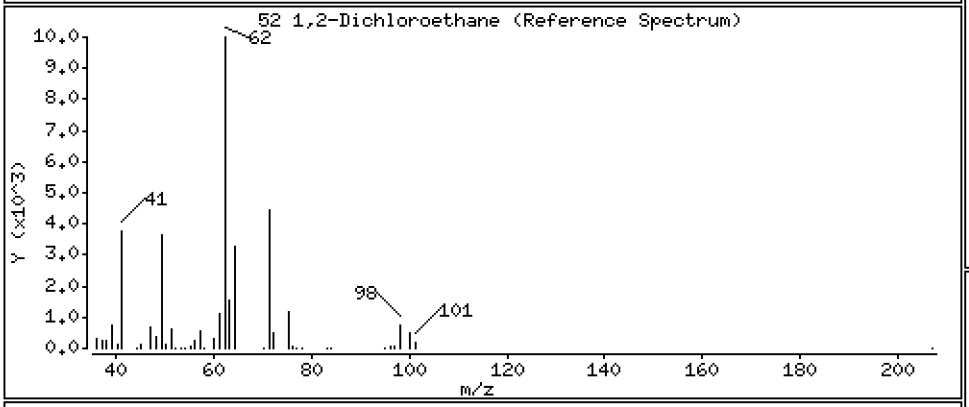
Purge Volume: 5.0 Operator: CJG

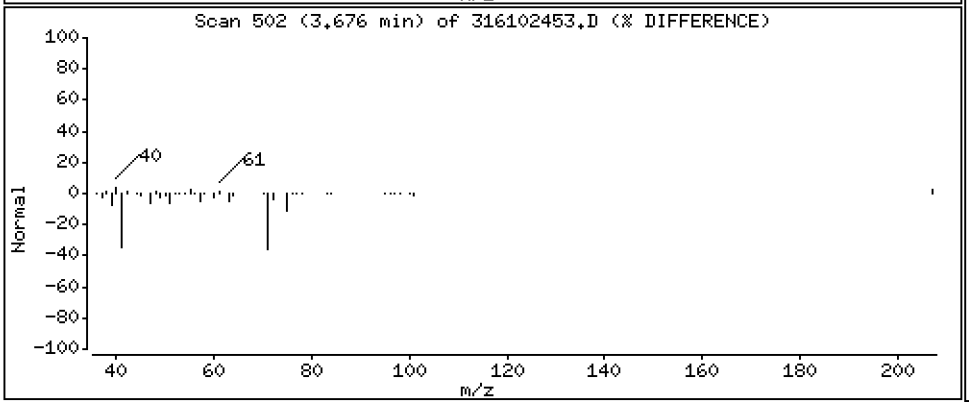
Column phase: DB-VRX Column diameter: 0.25

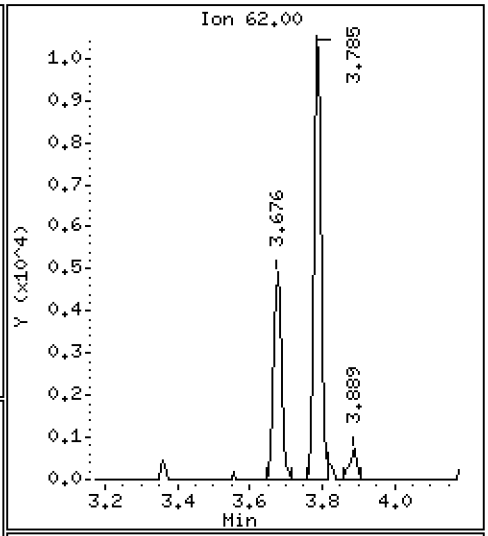
52 1,2-Dichloroethane Concentration: 0.621644 ug/L

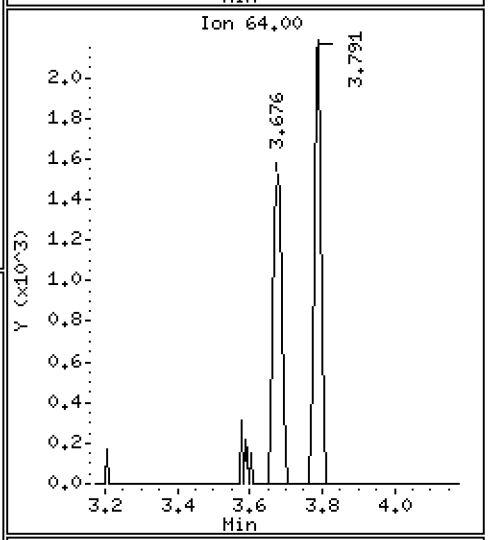


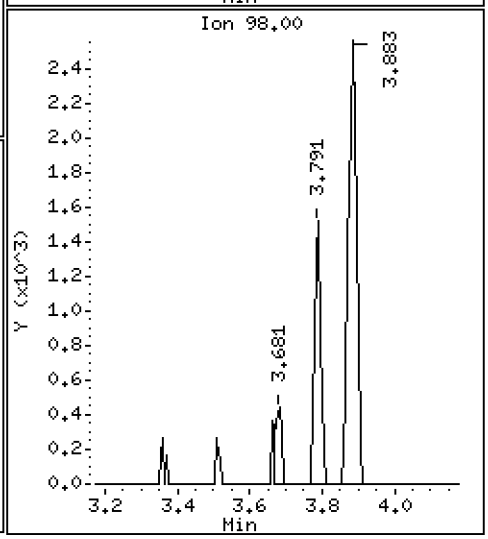












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 59

Date : 24-OCT-2016 23:25

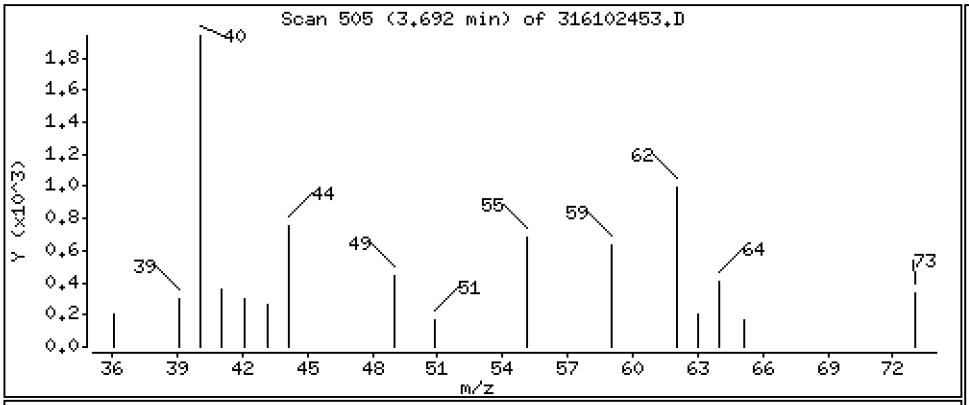
Client ID: Instrument: ms03.i

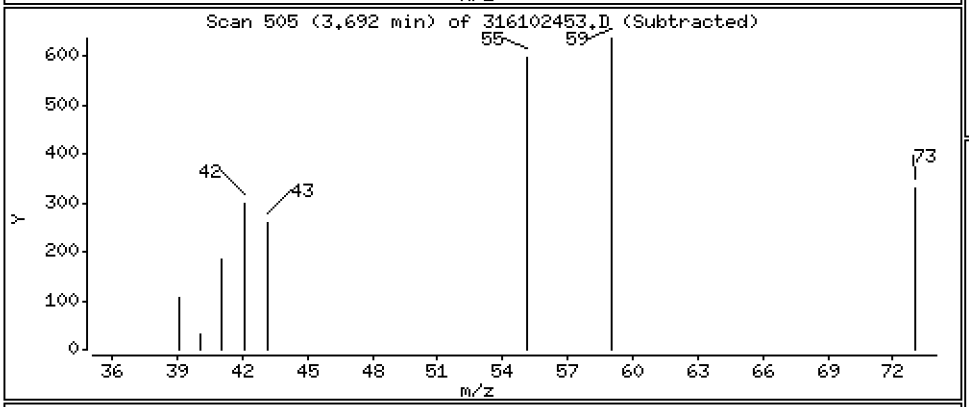
Sample Info: VSTD00.5;;1;1;8;;;

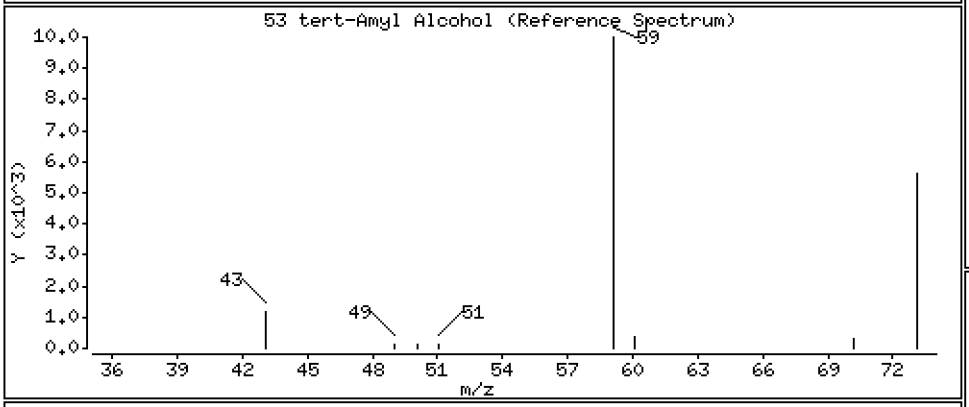
Purge Volume: 5.0 Operator: CJG

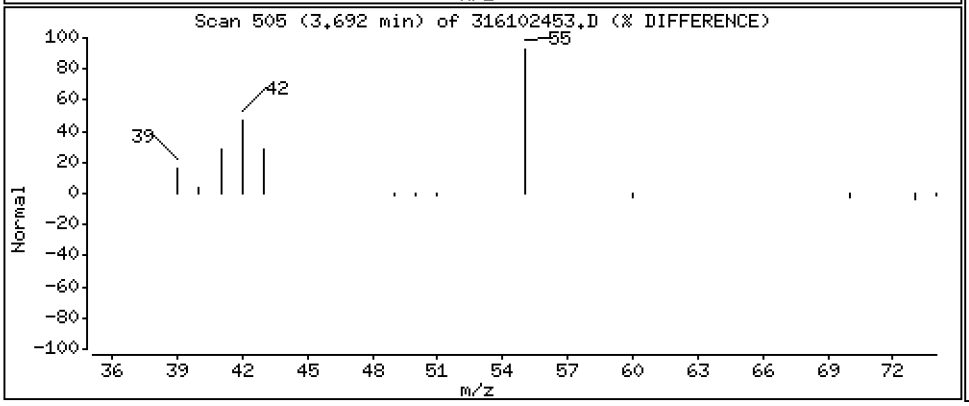
Column phase: DB-VRX Column diameter: 0.25

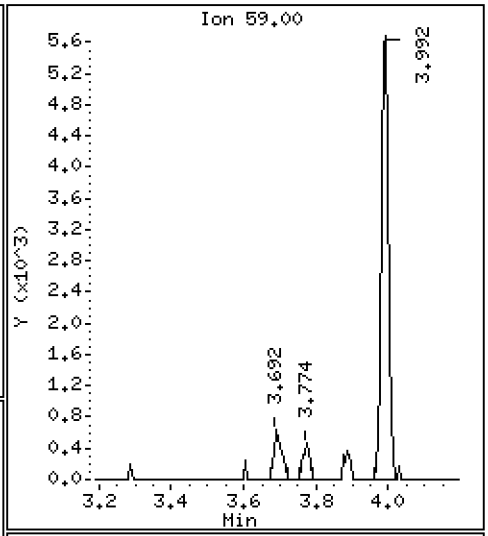
53 tert-Amyl Alcohol Concentration: 2.25178 ug/L

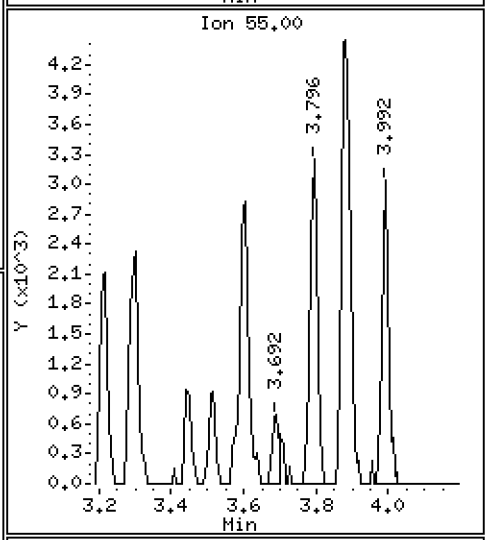


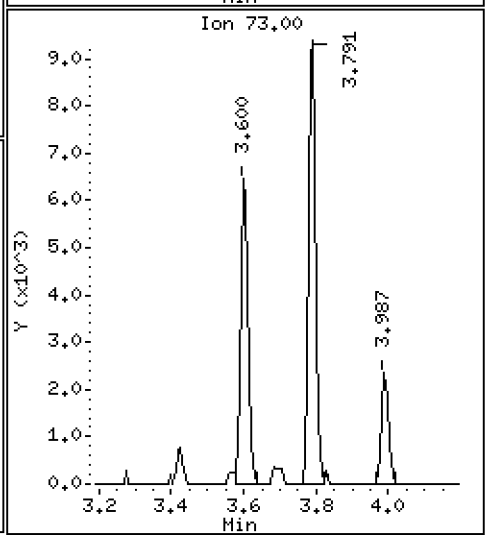












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 60

Date : 24-OCT-2016 23:25

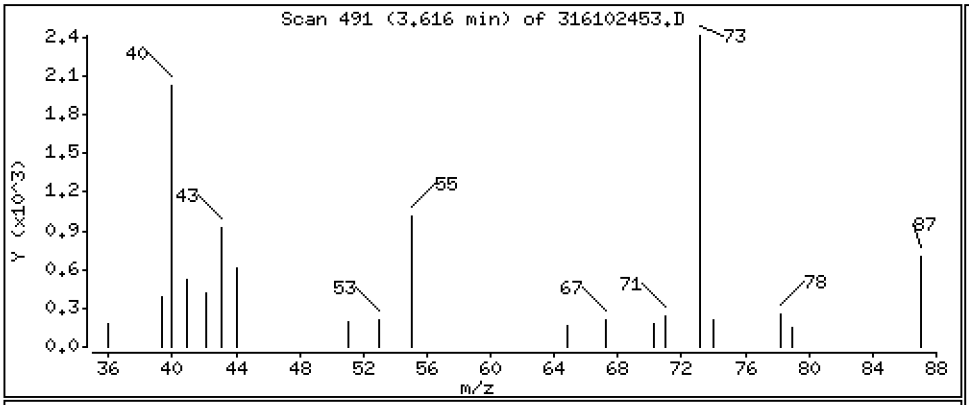
Client ID: Instrument: ms03.i

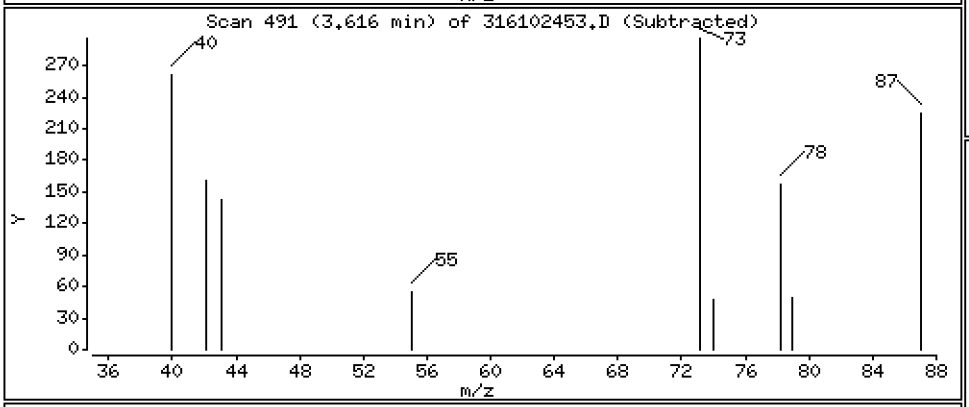
Sample Info: VSTD00.5;;1;1;8;;;

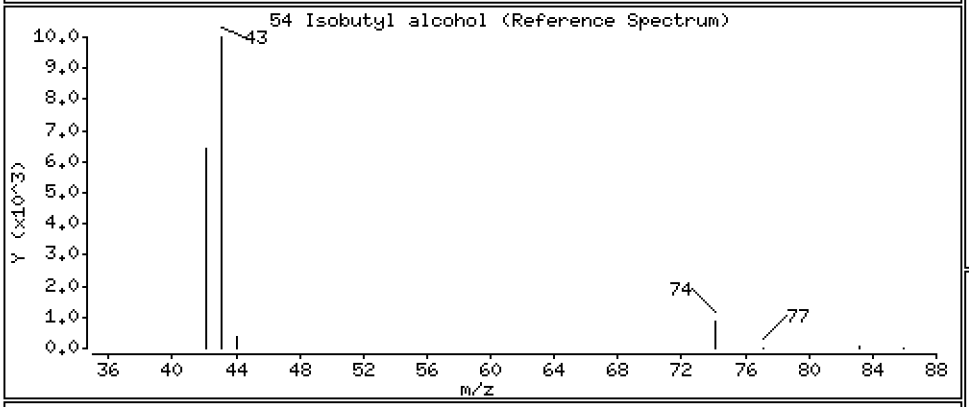
Purge Volume: 5.0 Operator: CJG

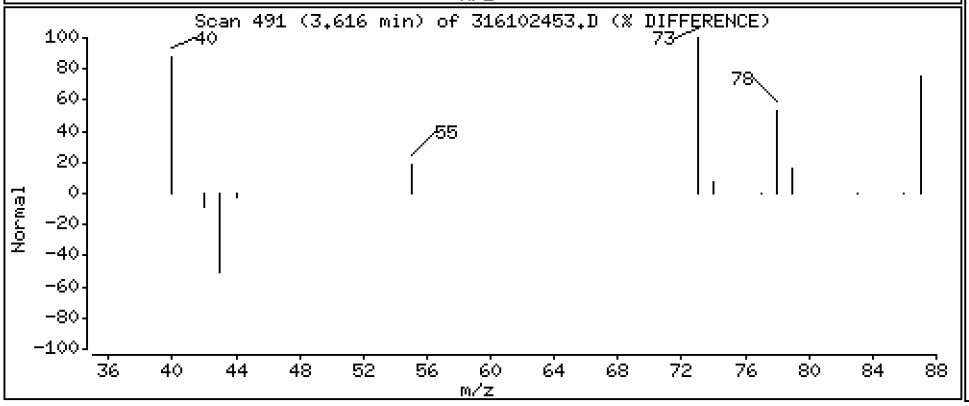
Column phase: DB-VRX Column diameter: 0.25

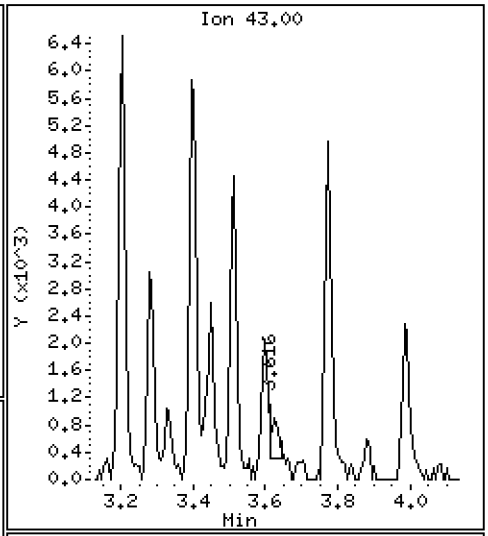
54 Isobutyl alcohol Concentration: 4.90820 ug/L

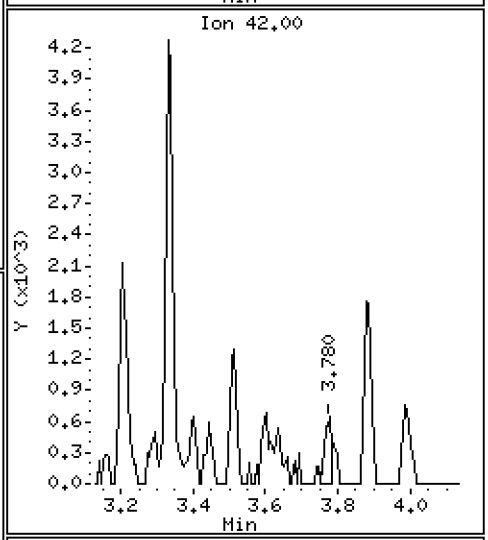


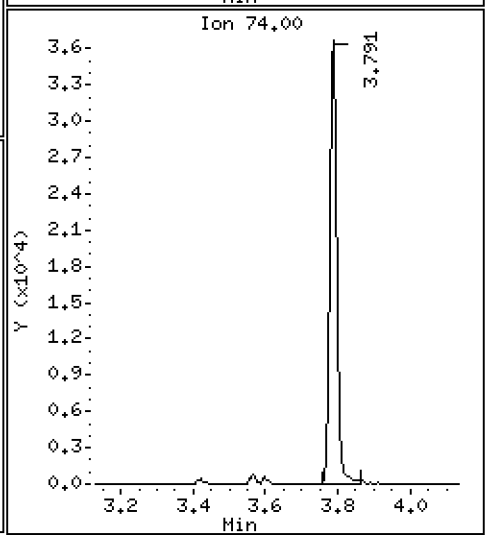












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 61

Date : 24-OCT-2016 23:25

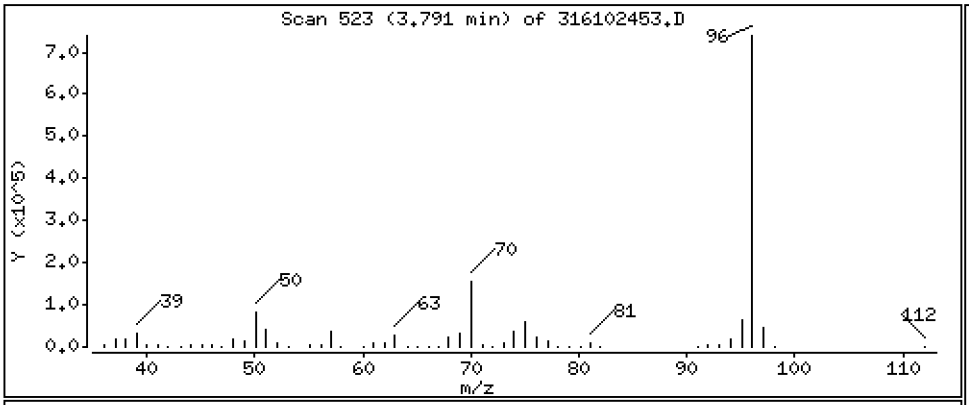
Client ID: Instrument: ms03.i

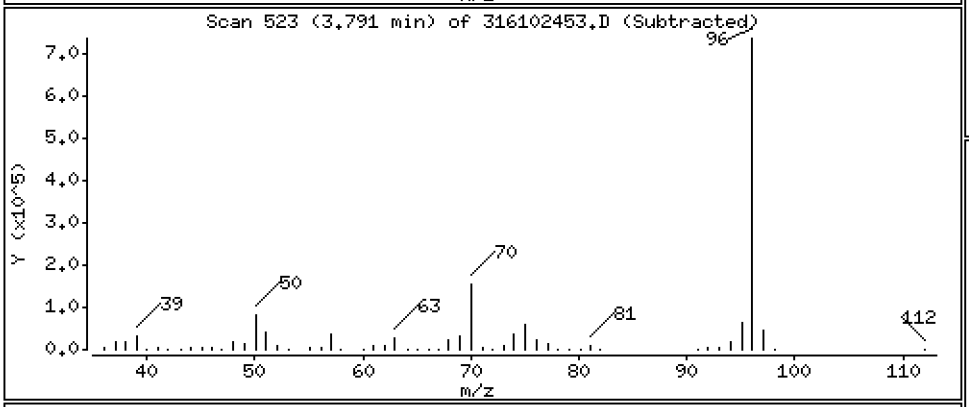
Sample Info: VSTD00.5;;1;1;8;;;

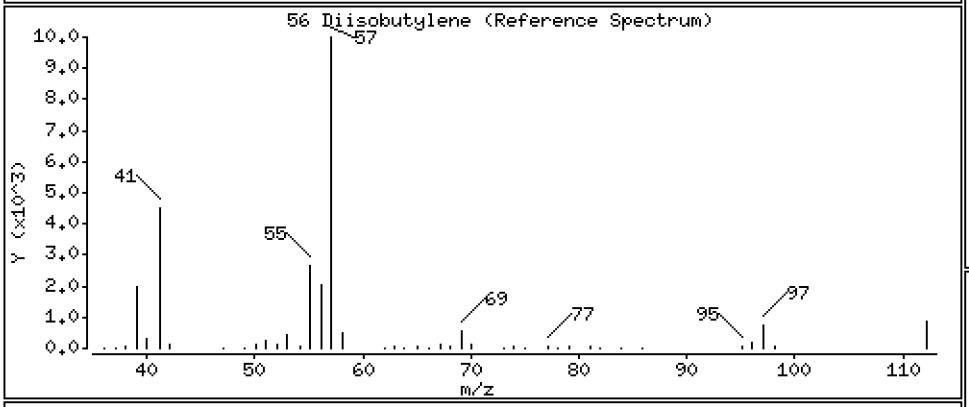
Purge Volume: 5.0 Operator: CJG

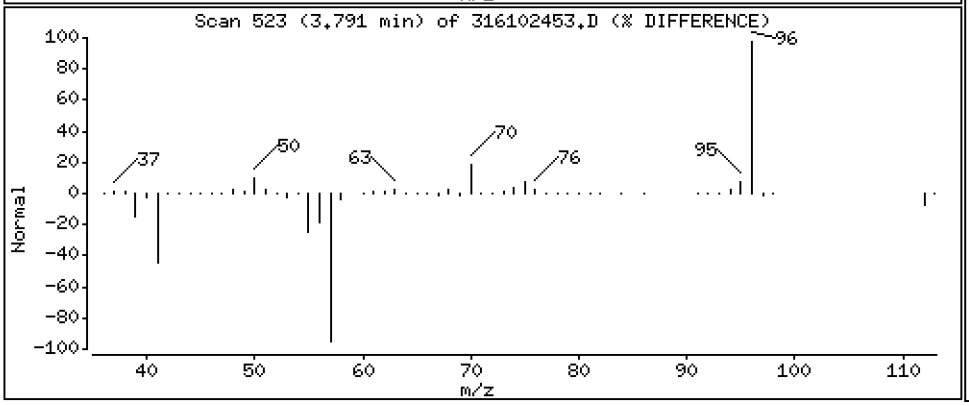
Column phase: DB-VRX Column diameter: 0.25

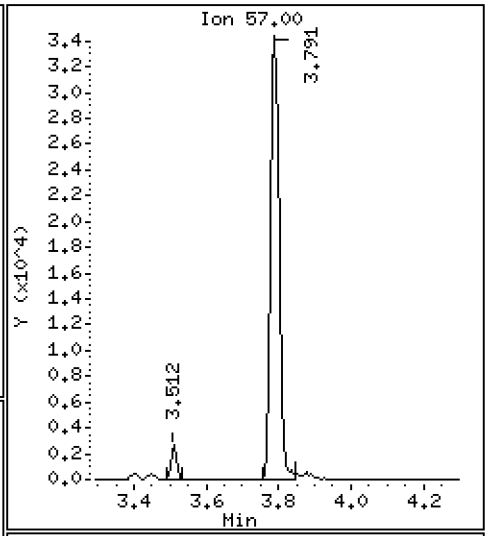
56 Diisobutylene Concentration: 2.40763 ug/L

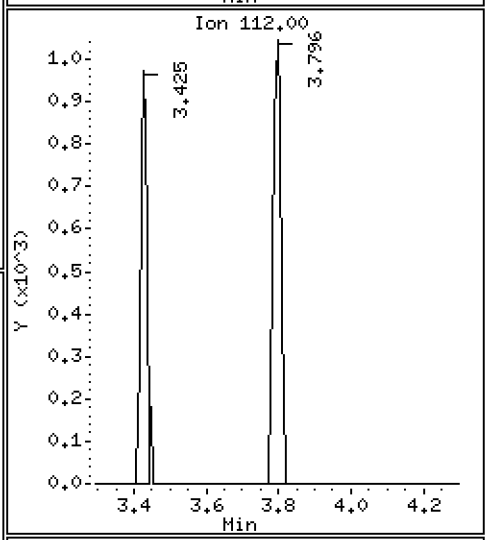


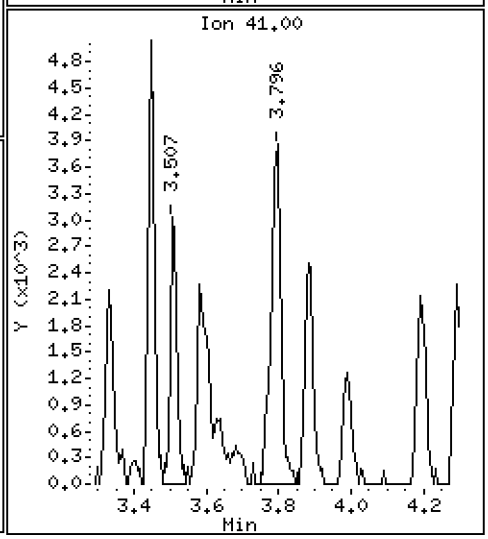












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 62

Date : 24-OCT-2016 23:25

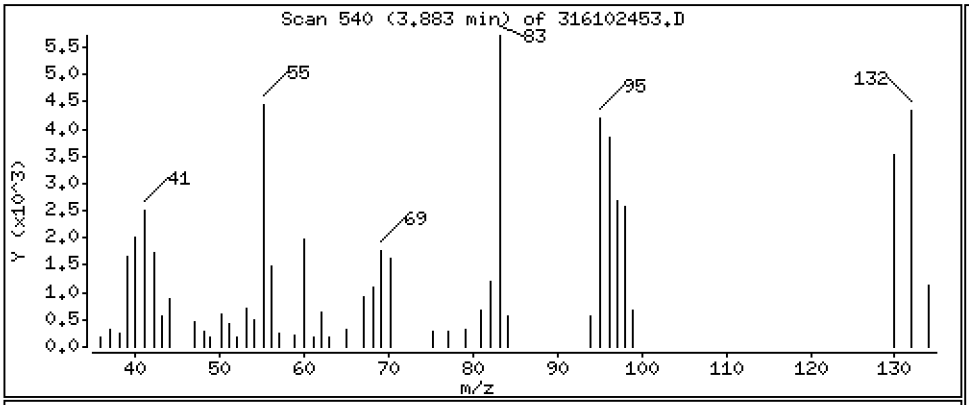
Client ID: Instrument: ms03.i

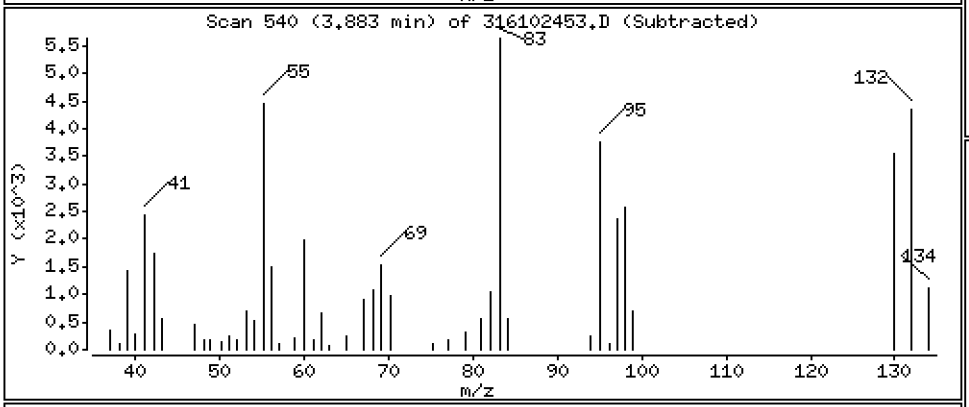
Sample Info: VSTD00.5;;1;1;8;;;

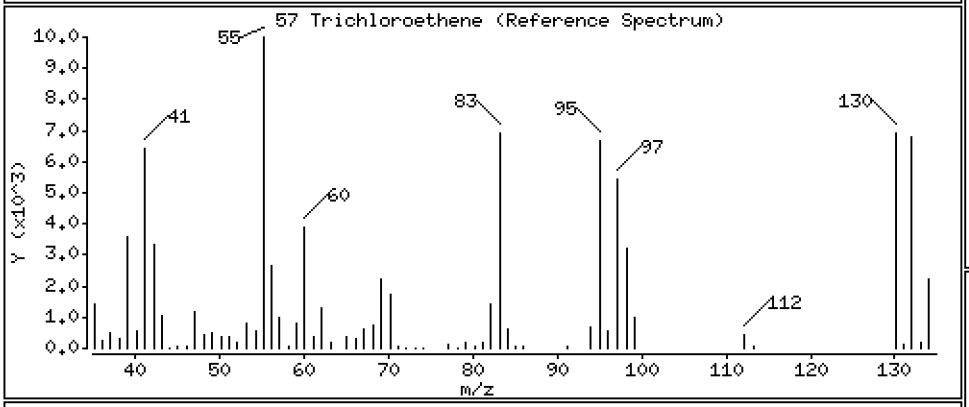
Purge Volume: 5.0 Operator: CJG

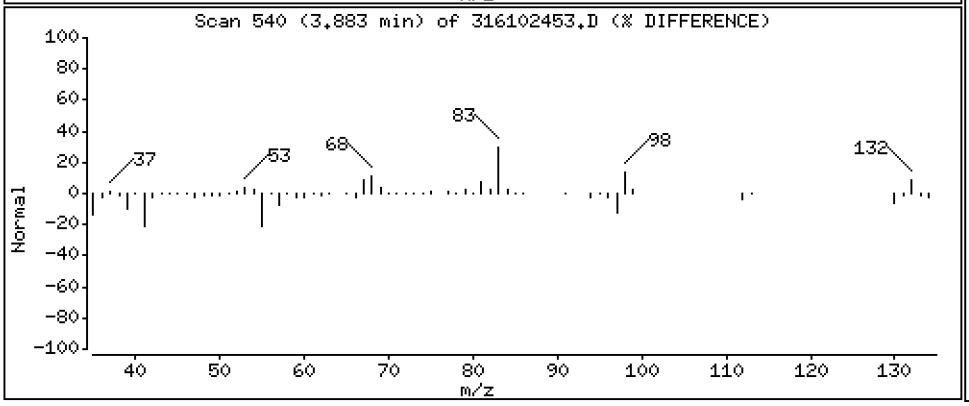
Column phase: DB-VRX Column diameter: 0.25

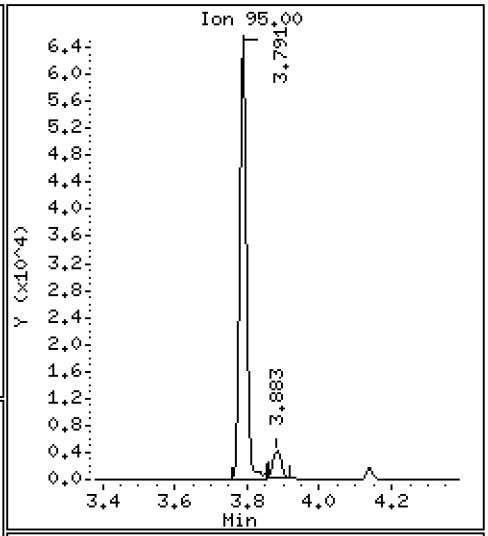
57 Trichloroethene Concentration: 0.735563 ug/L

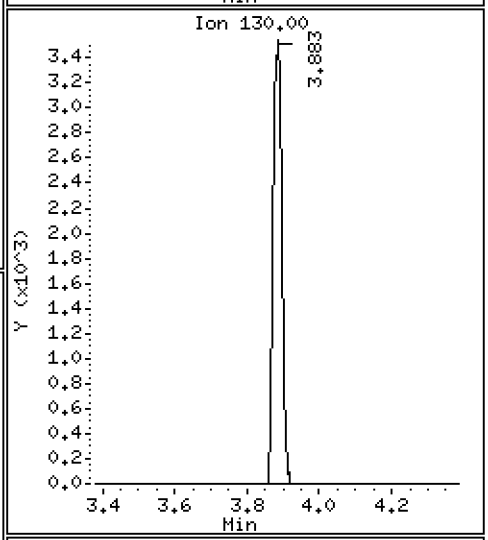


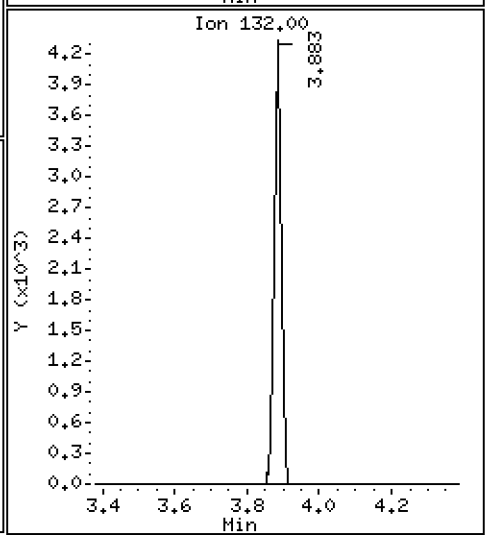












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 63

Date : 24-OCT-2016 23:25

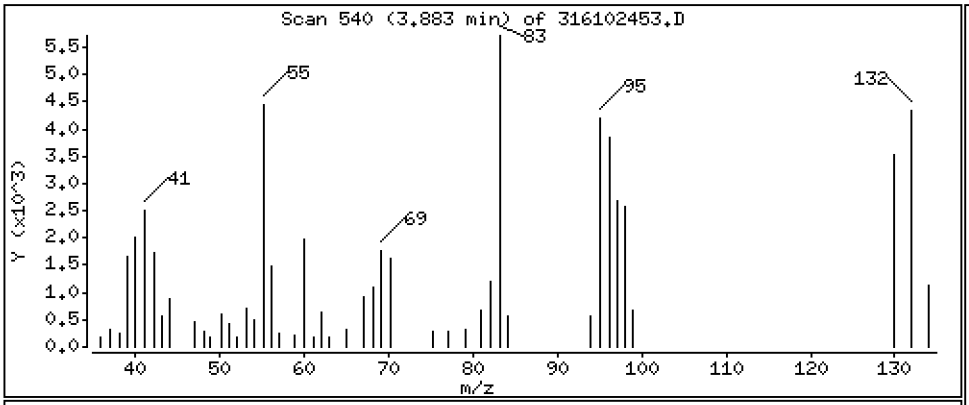
Client ID: Instrument: ms03.i

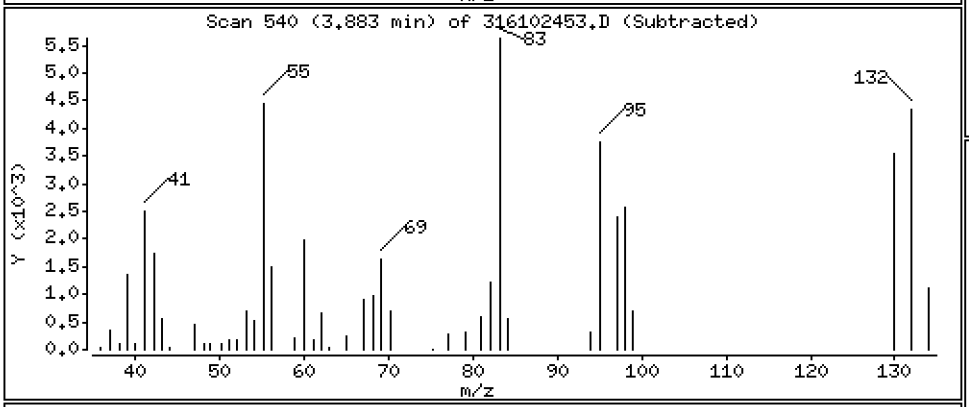
Sample Info: VSTD00.5;;1;1;8;;;

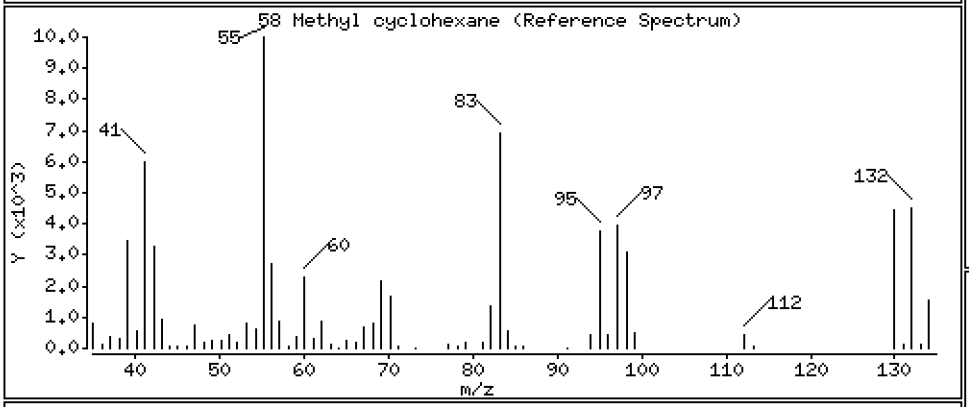
Purge Volume: 5.0 Operator: CJG

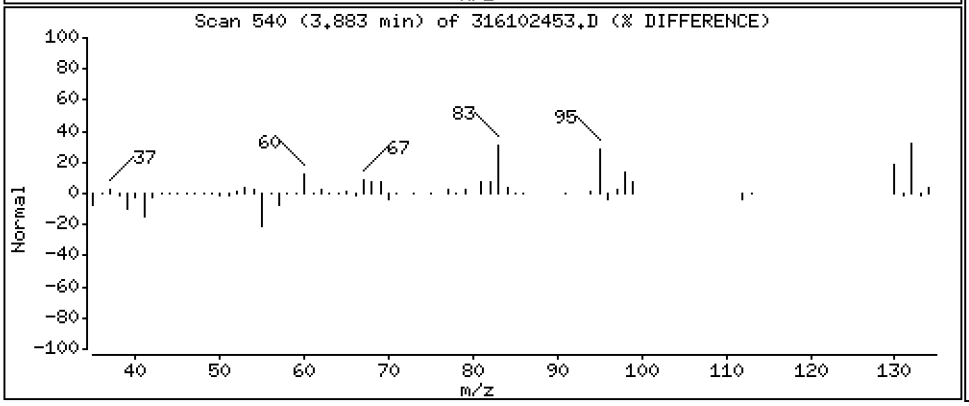
Column phase: DB-VRX Column diameter: 0.25

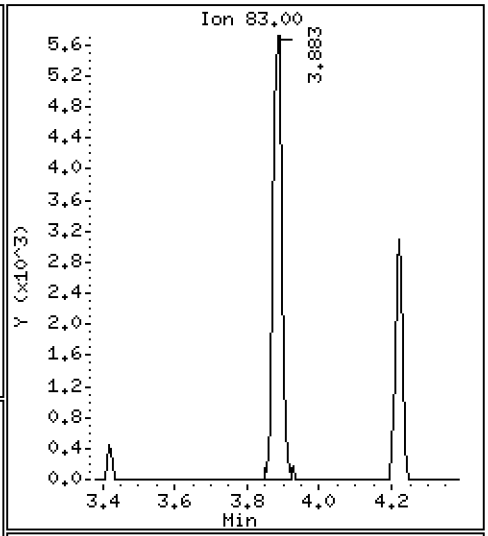
58 Methyl cyclohexane Concentration: 0.757728 ug/L

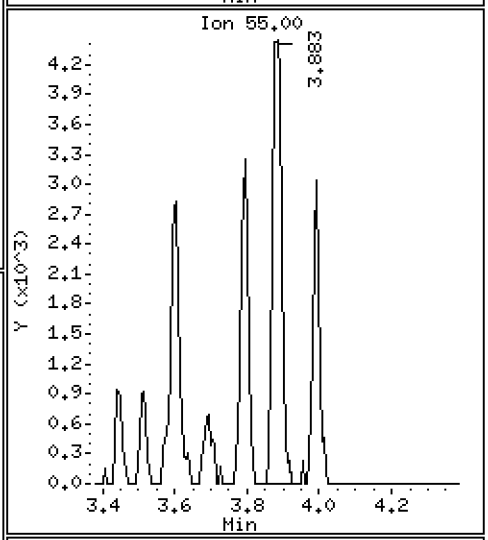


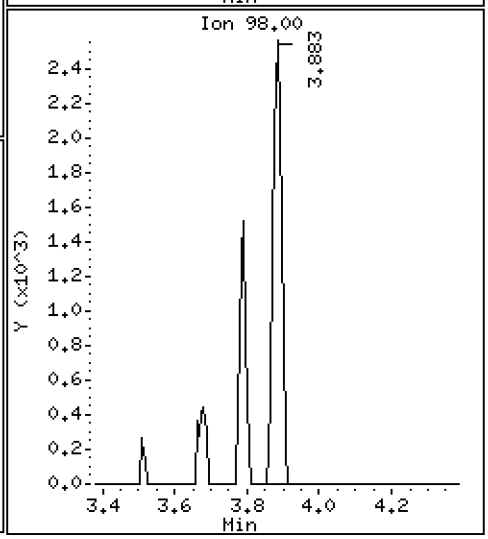












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 64

Date : 24-OCT-2016 23:25

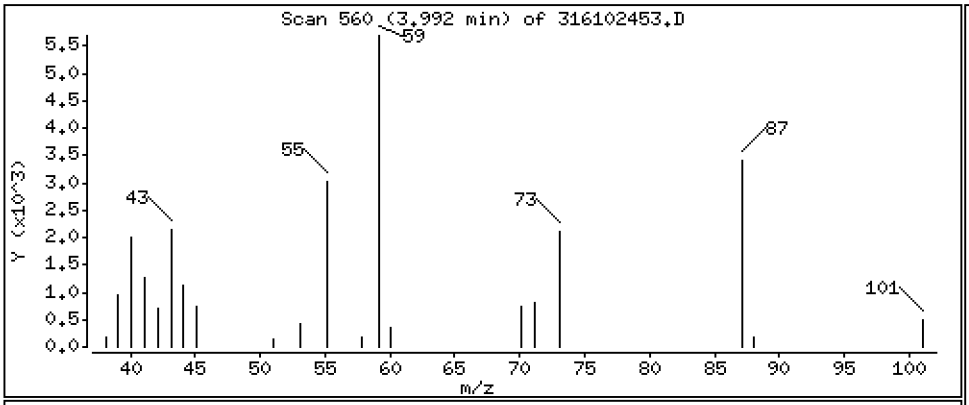
Client ID: Instrument: ms03.i

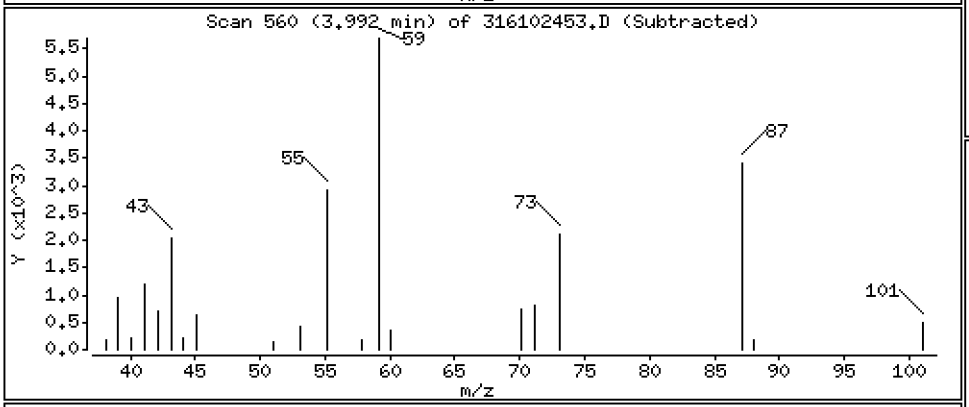
Sample Info: VSTD00.5;;1;1;8;;;

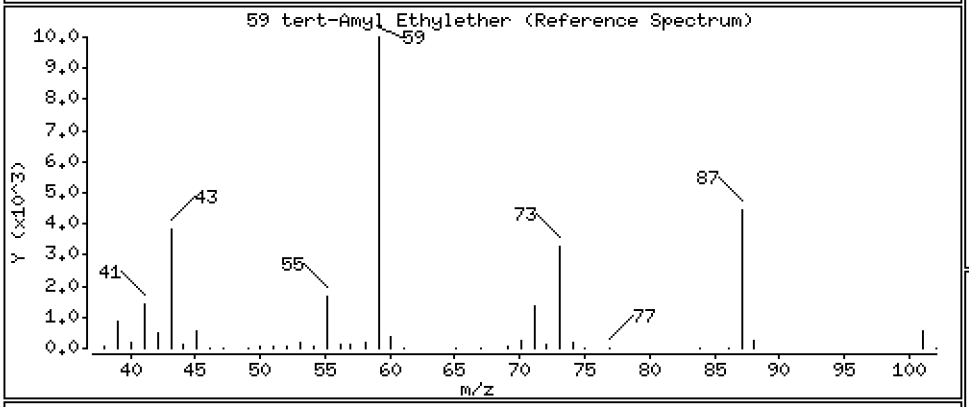
Purge Volume: 5.0 Operator: CJG

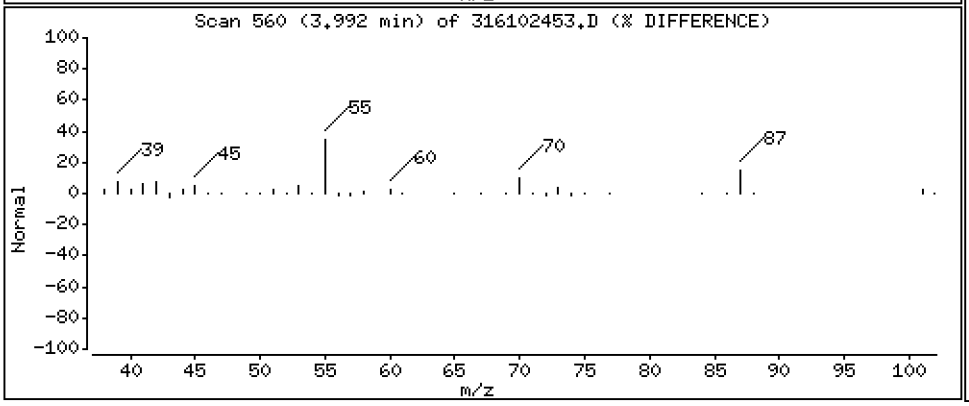
Column phase: DB-VRX Column diameter: 0.25

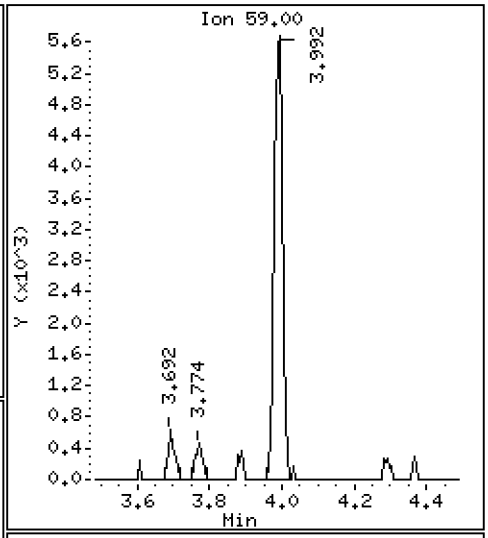
59 tert-Amyl Ethylether Concentration: 0.458850 ug/L

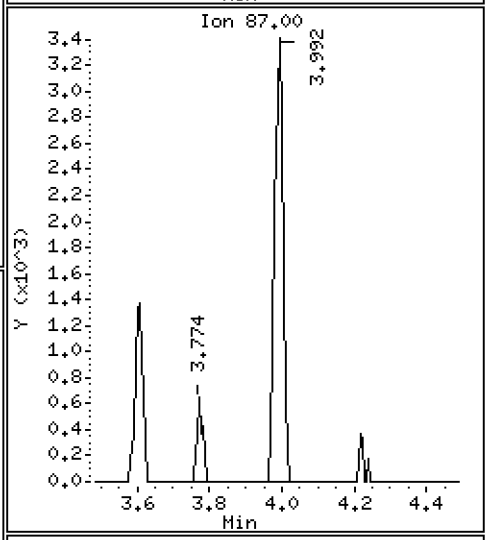


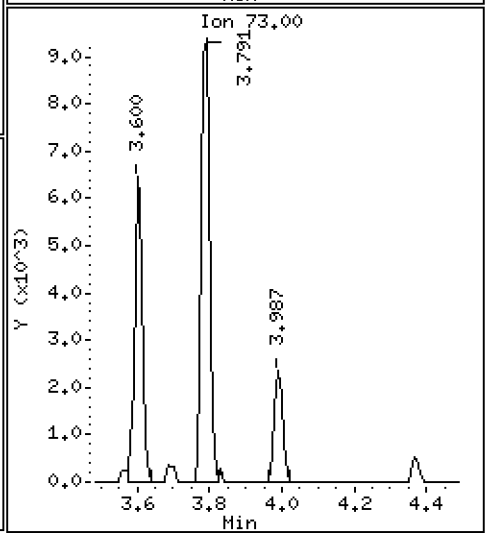












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 65

Date : 24-OCT-2016 23:25

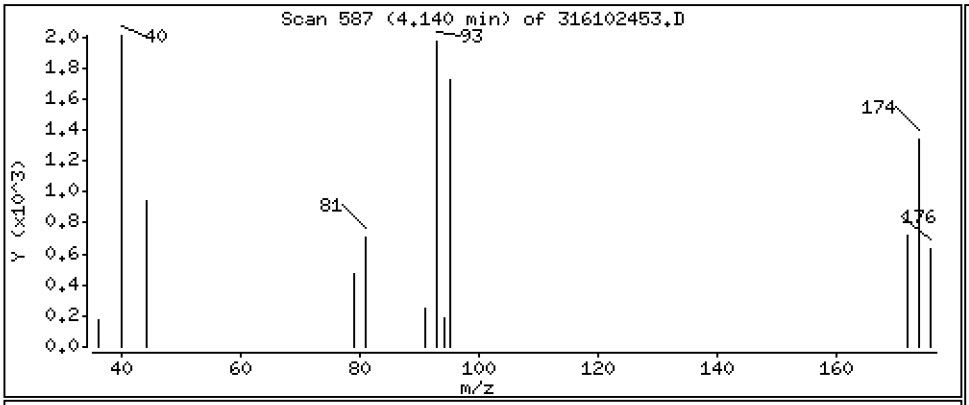
Client ID: Instrument: ms03.i

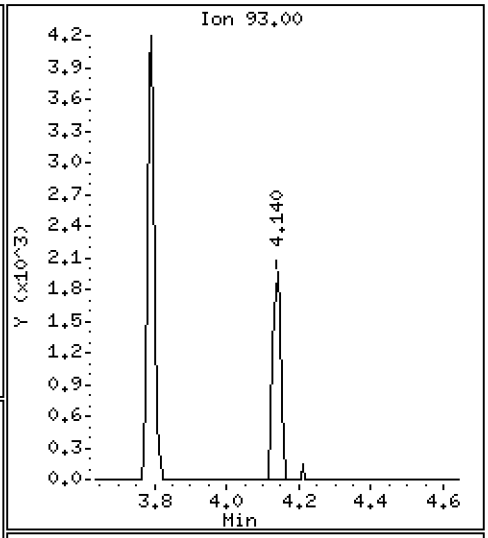
Sample Info: VSTD00.5;;1;1;8;;;

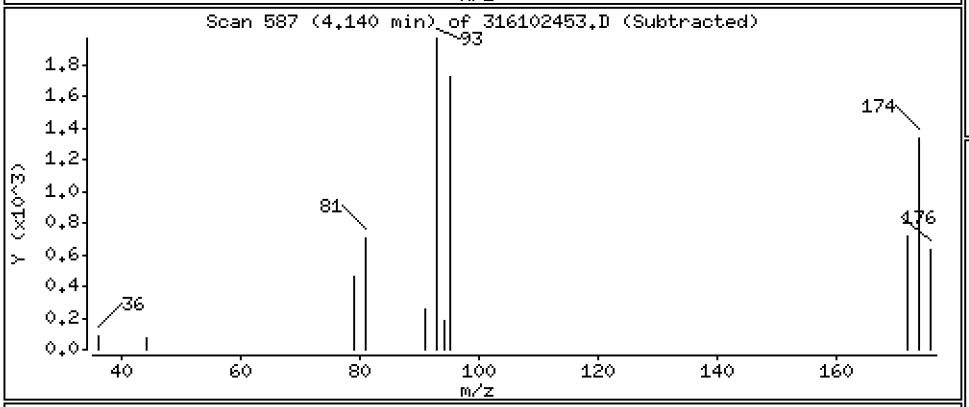
Purge Volume: 5.0 Operator: CJG

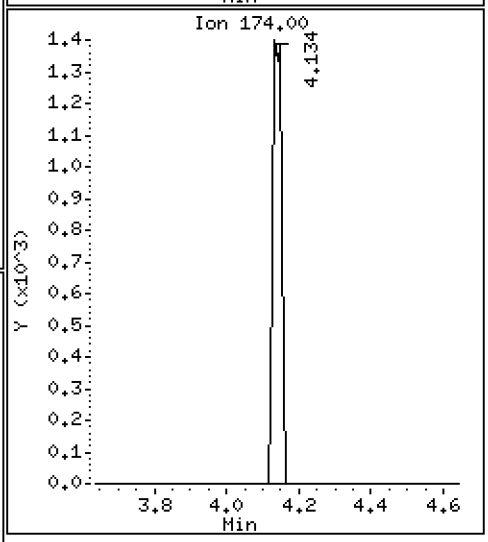
Column phase: DB-VRX Column diameter: 0.25

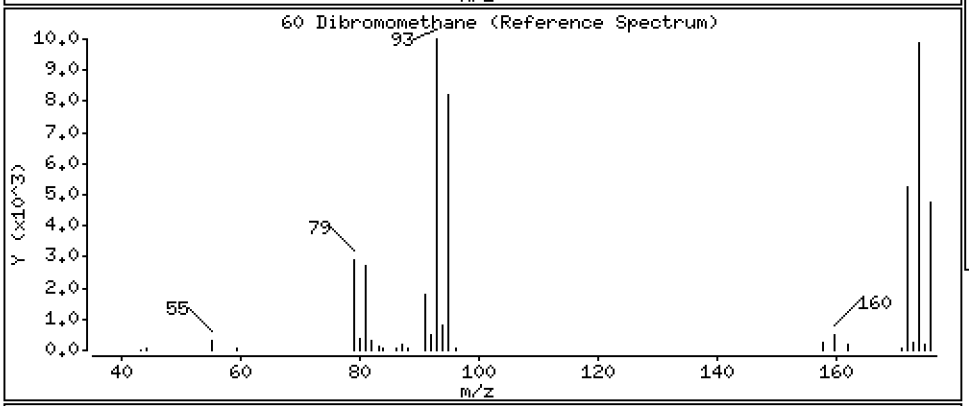
60 Dibromomethane Concentration: 0.611602 ug/L

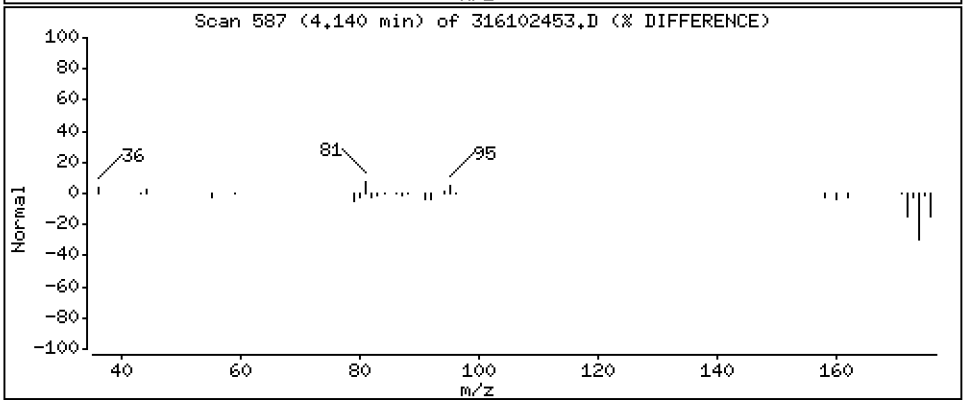












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 66

Date : 24-OCT-2016 23:25

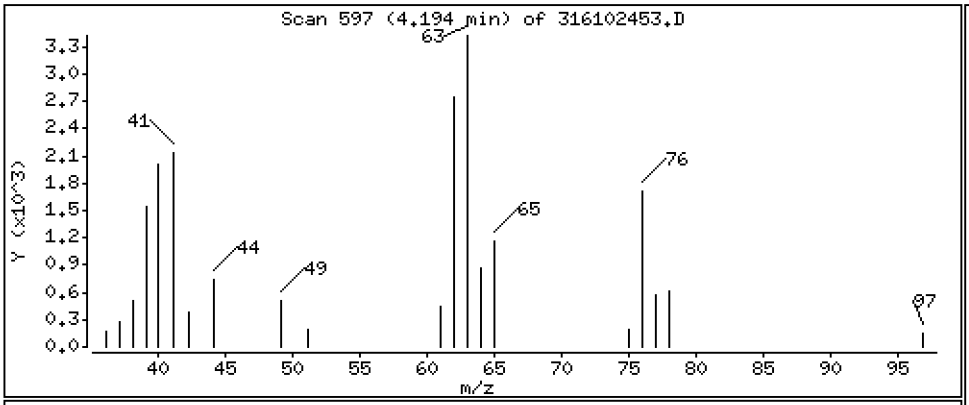
Client ID: Instrument: ms03.i

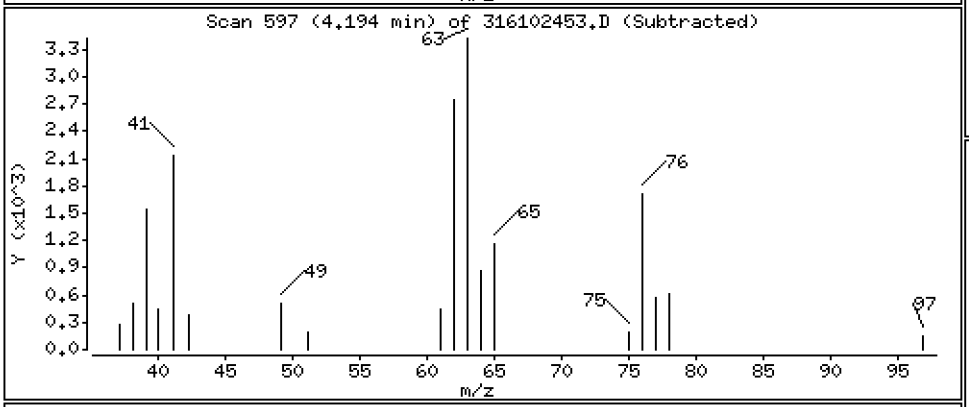
Sample Info: VSTD00.5;;1;1;8;;;

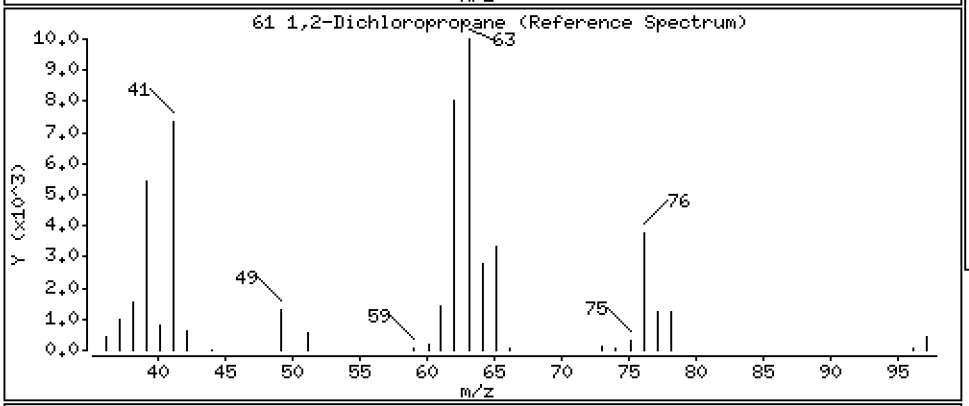
Purge Volume: 5.0 Operator: CJG

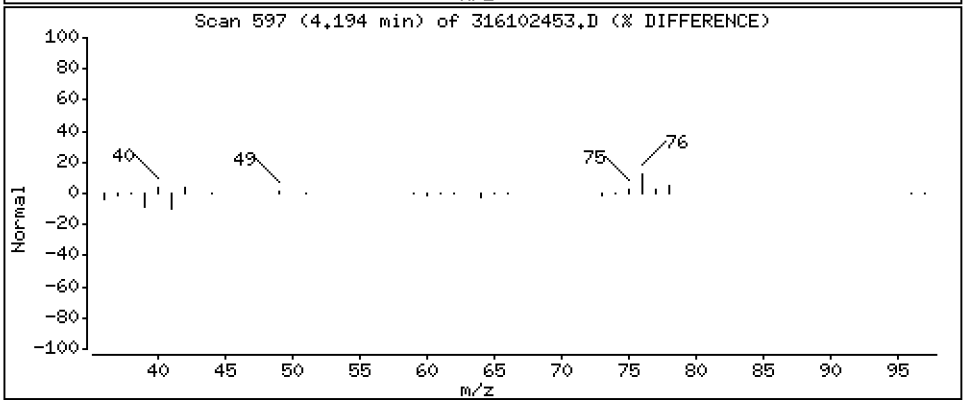
Column phase: DB-VRX Column diameter: 0.25

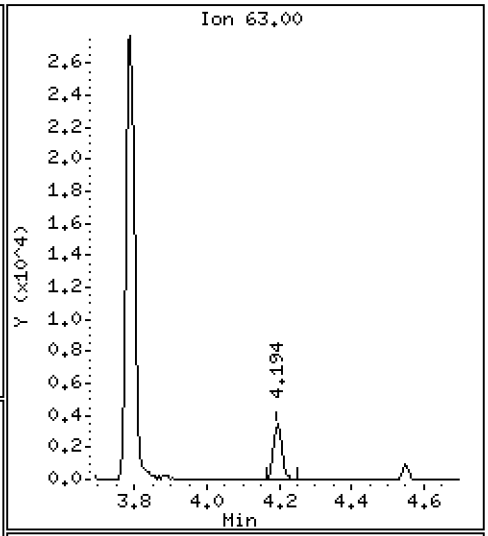
61 1,2-Dichloropropane Concentration: 0.541575 ug/L

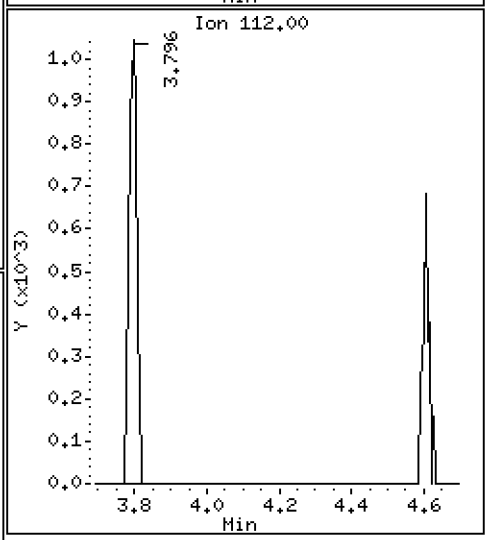












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 67

Date : 24-OCT-2016 23:25

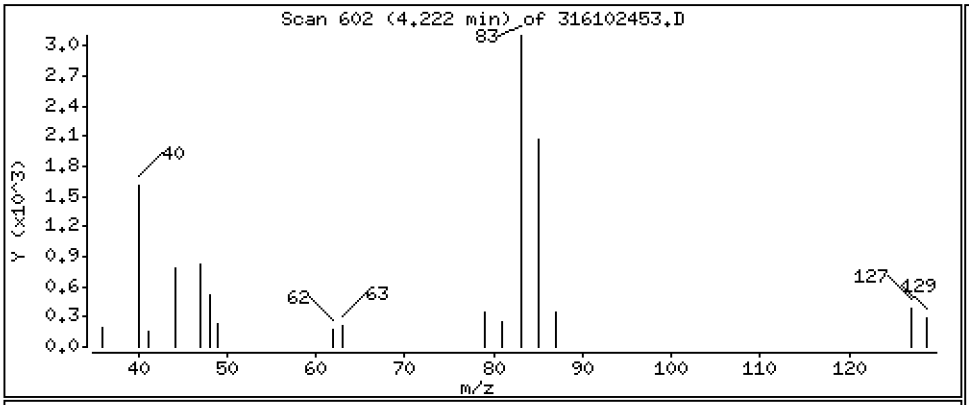
Client ID: Instrument: ms03.i

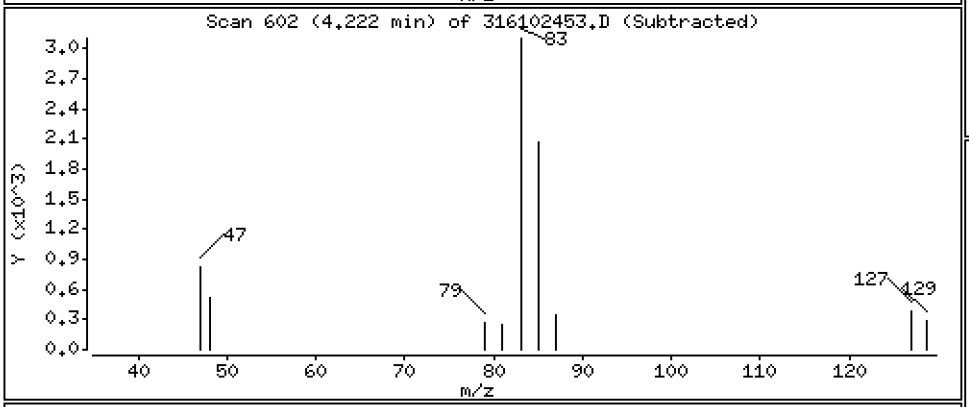
Sample Info: VSTD00.5;;1;1;8;;;

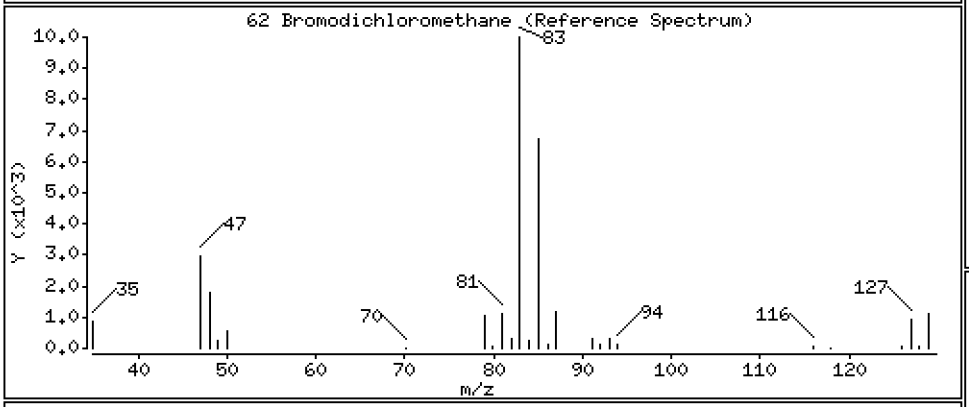
Purge Volume: 5.0 Operator: CJG

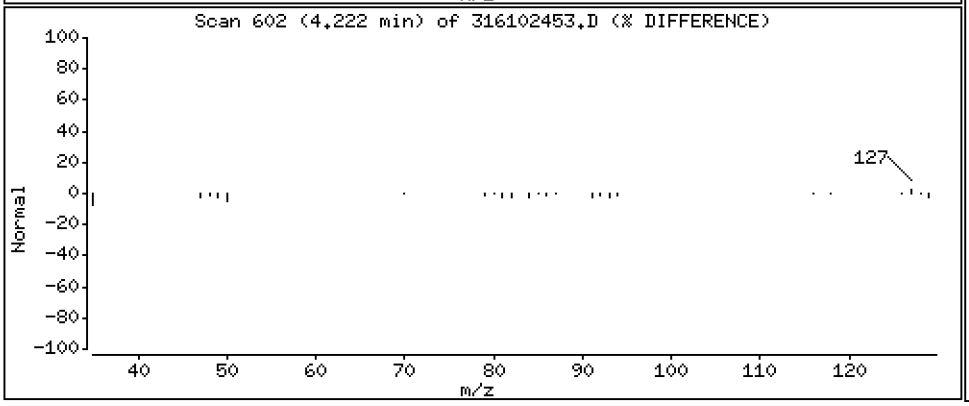
Column phase: DB-VRX Column diameter: 0.25

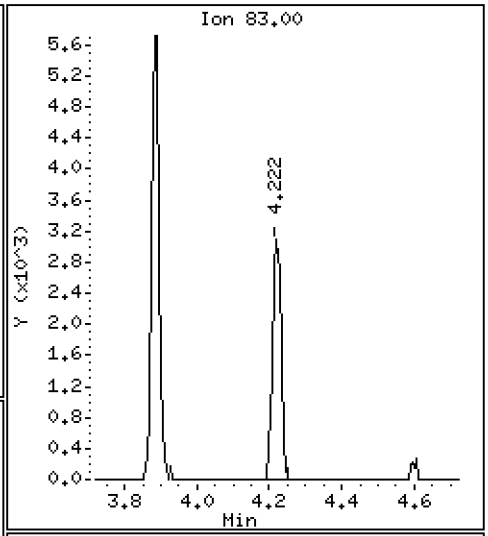
62 Bromodichloromethane Concentration: 0.470390 ug/L

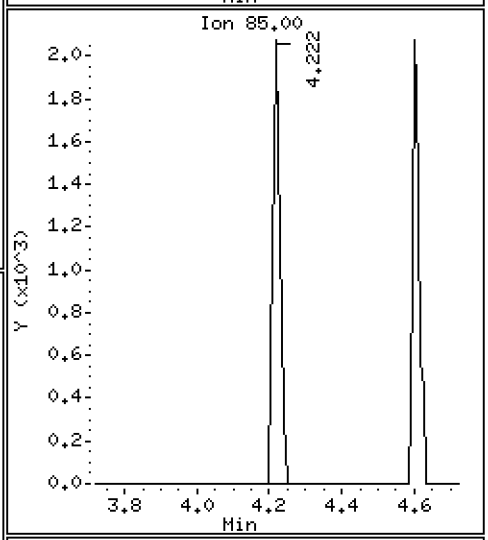


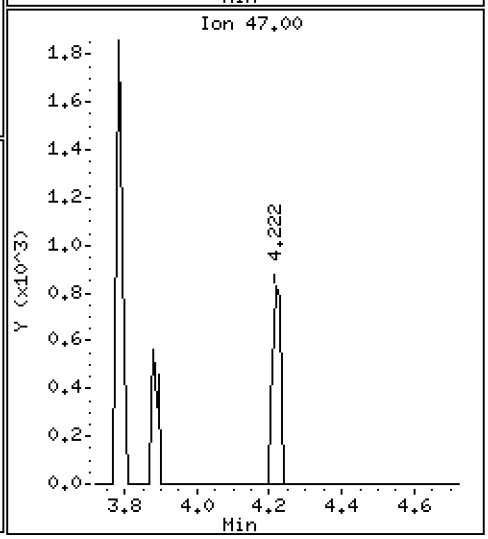












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 68

Date : 24-OCT-2016 23:25

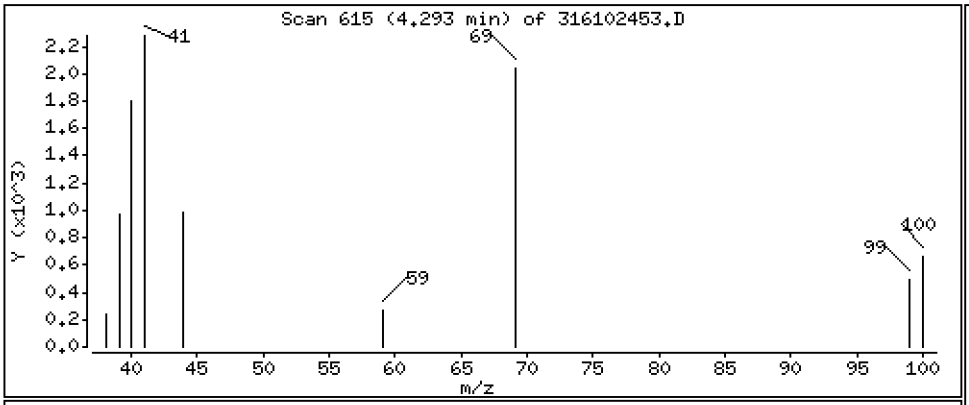
Client ID: Instrument: ms03.i

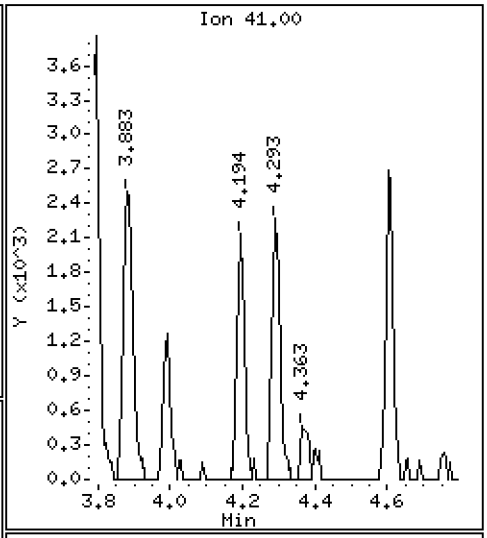
Sample Info: VSTD00.5;;1;1;8;;;

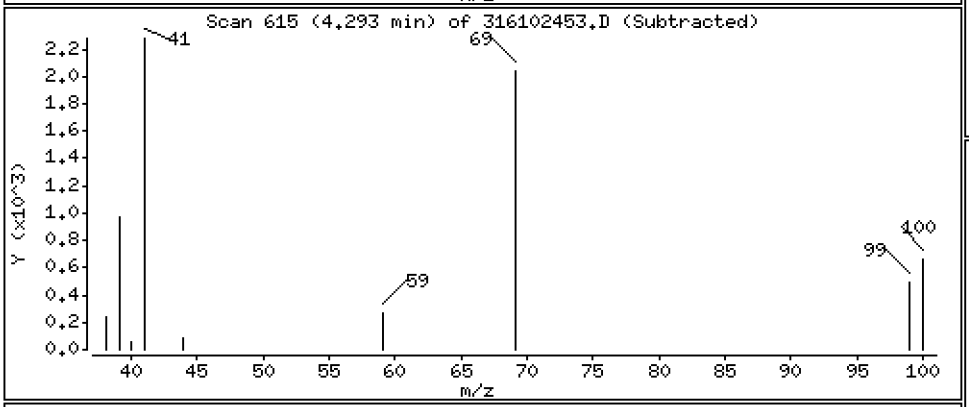
Purge Volume: 5.0 Operator: CJG

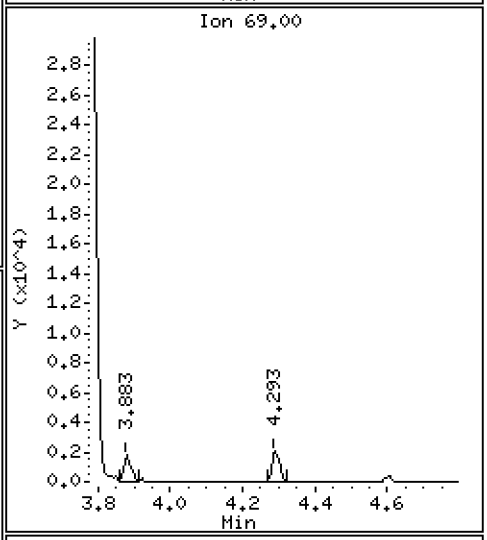
Column phase: DB-VRX Column diameter: 0.25

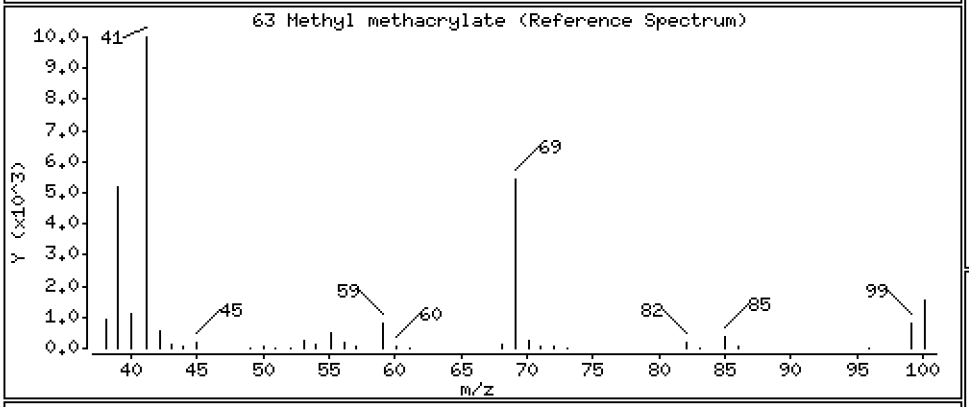
63 Methyl methacrylate Concentration: 0.466598 ug/L

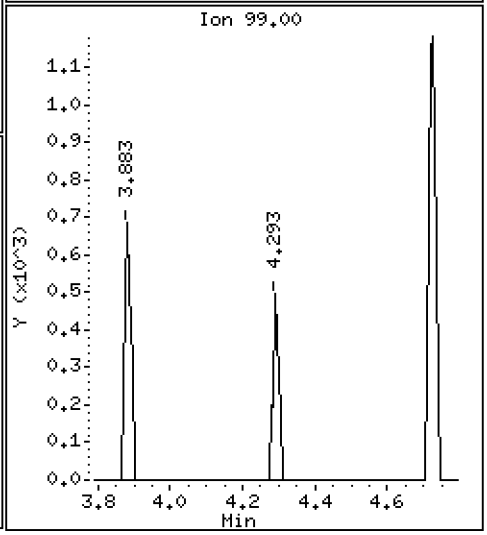


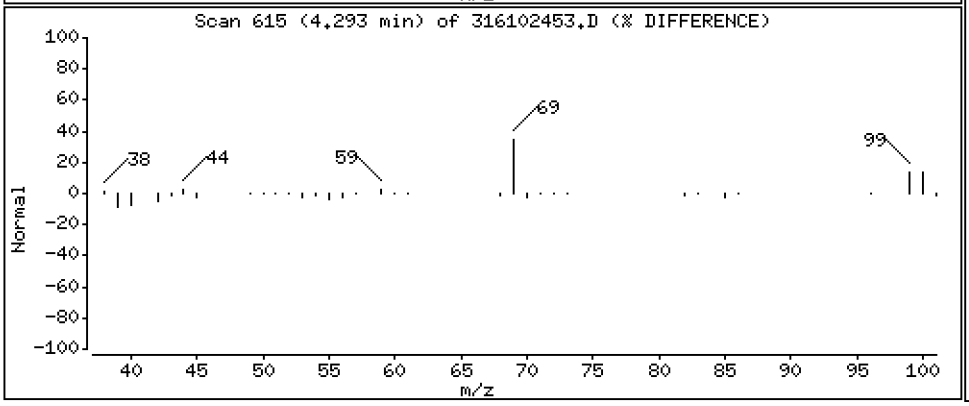












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 69

Date : 24-OCT-2016 23:25

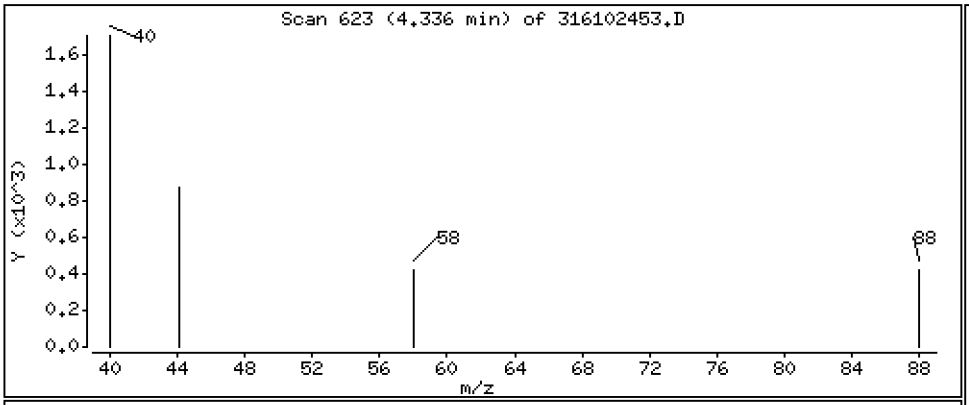
Client ID: Instrument: ms03.i

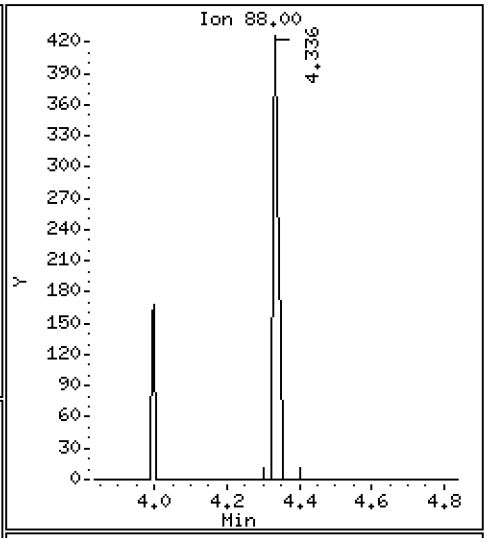
Sample Info: VSTD00.5;;1;1;8;;;

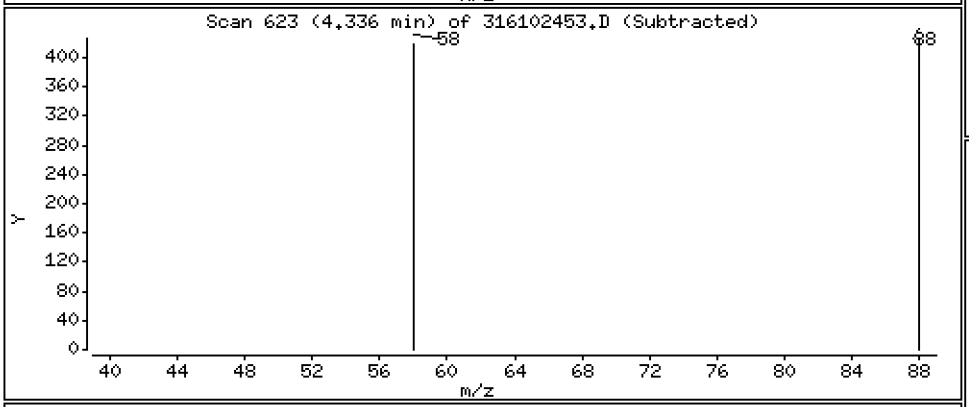
Purge Volume: 5.0 Operator: CJG

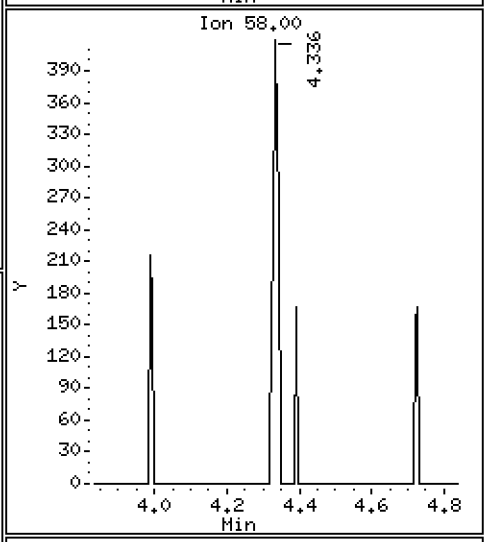
Column phase: DB-VRX Column diameter: 0.25

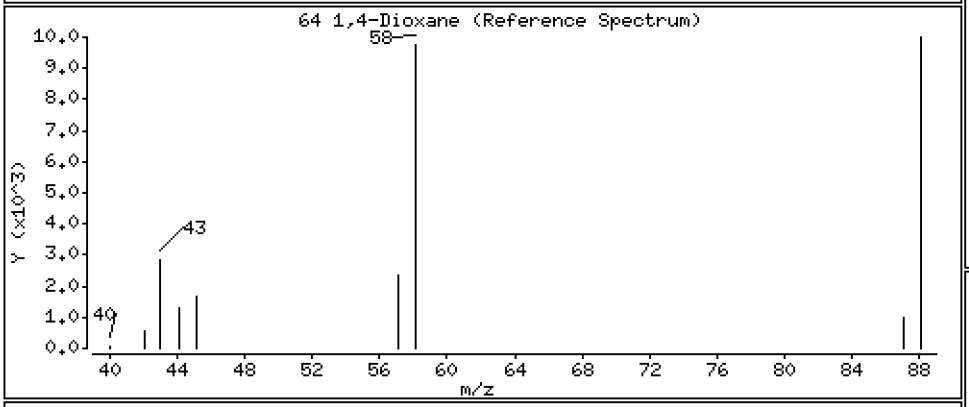
64 1,4-Dioxane Concentration: 10.8705 ug/L

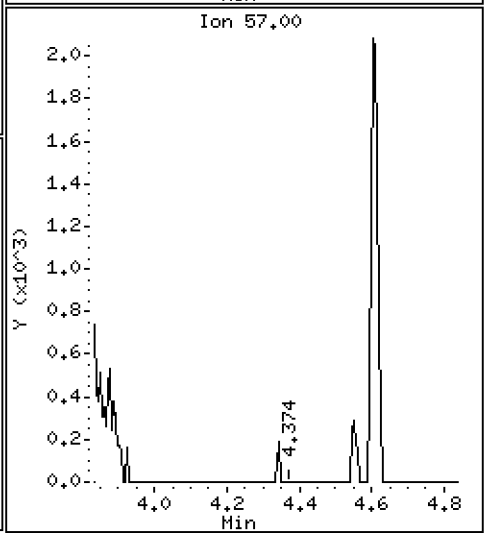


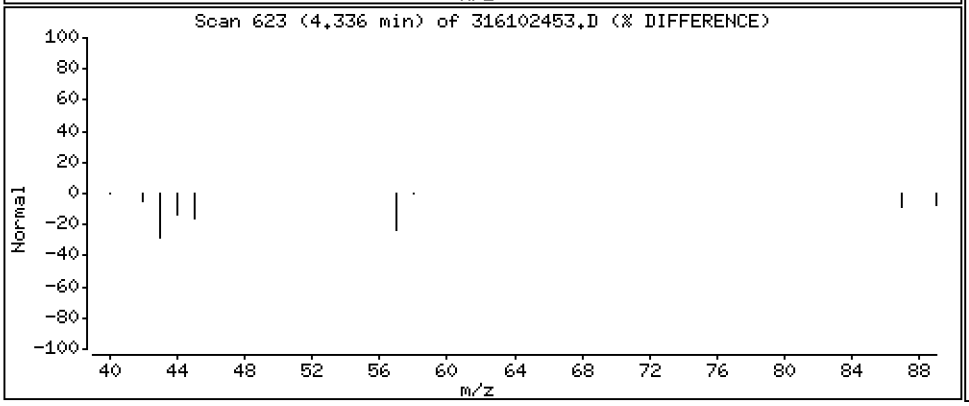












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 70

Date : 24-OCT-2016 23:25

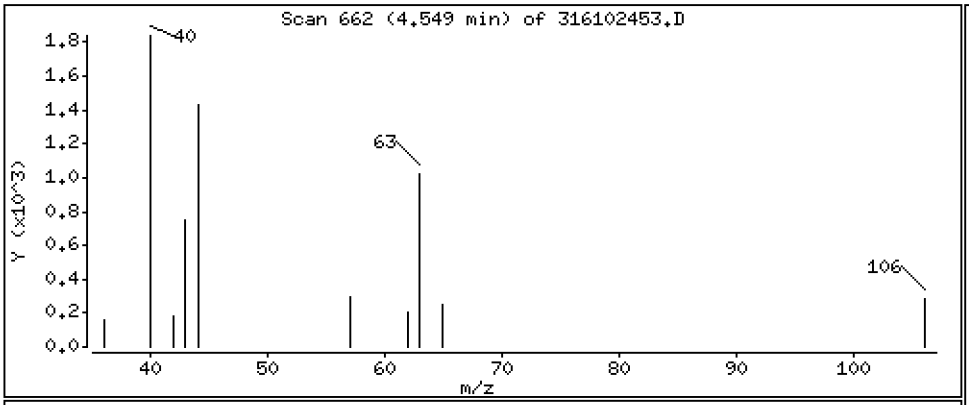
Client ID: Instrument: ms03.i

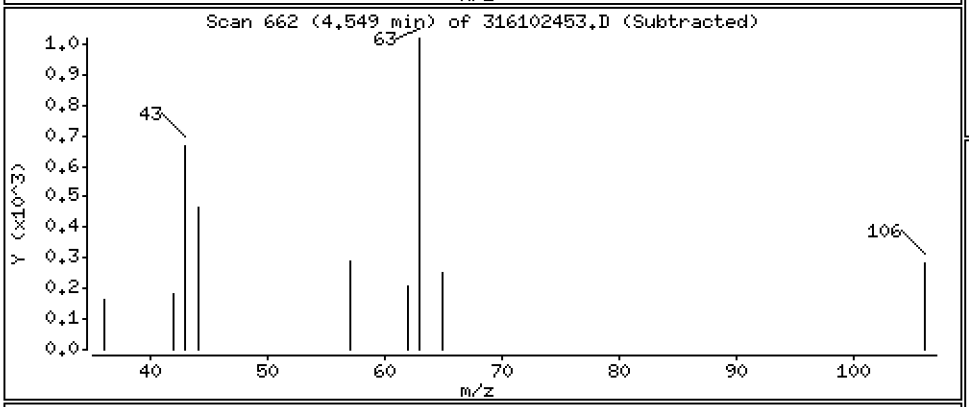
Sample Info: VSTD00.5;;1;1;8;;;

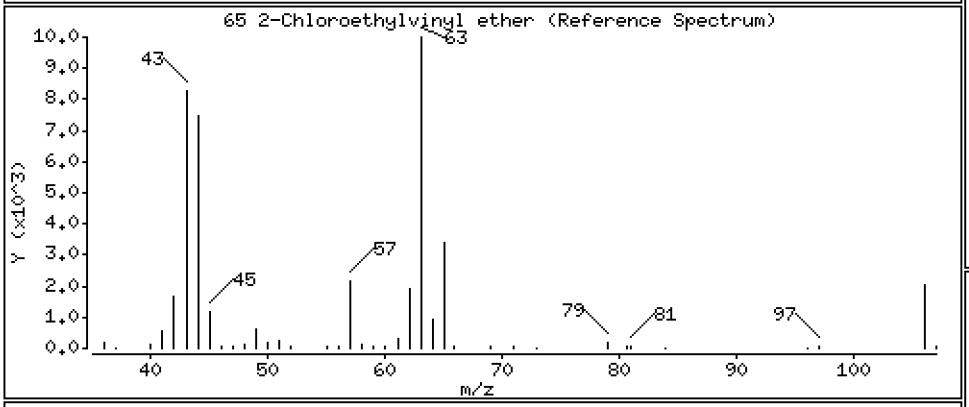
Purge Volume: 5.0 Operator: CJG

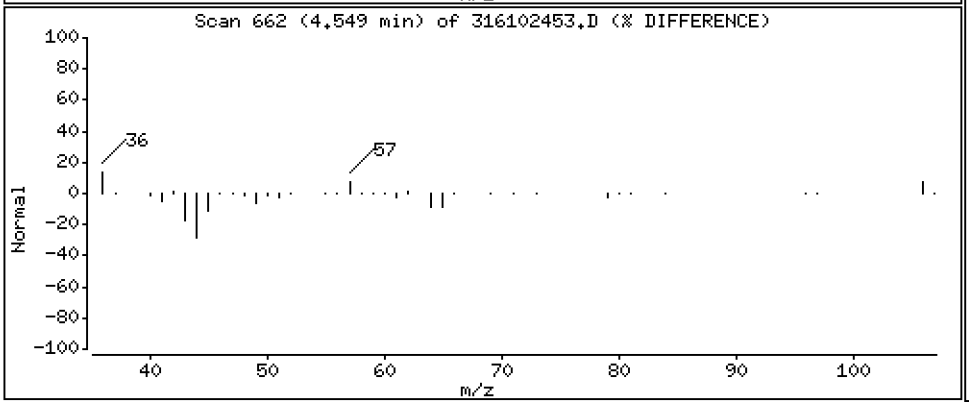
Column phase: DB-VRX Column diameter: 0.25

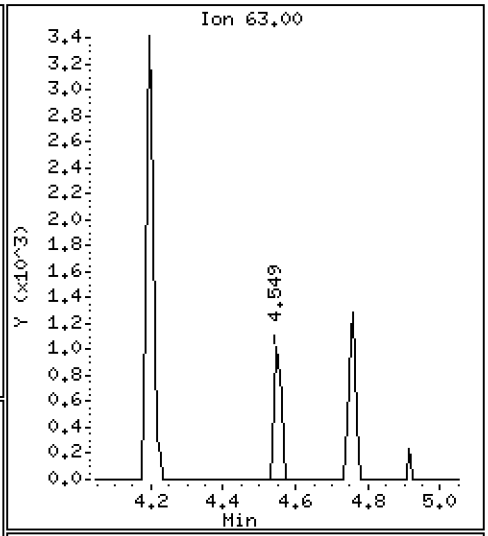
65 2-Chloroethylvinyl ether Concentration: 0.295843 ug/L

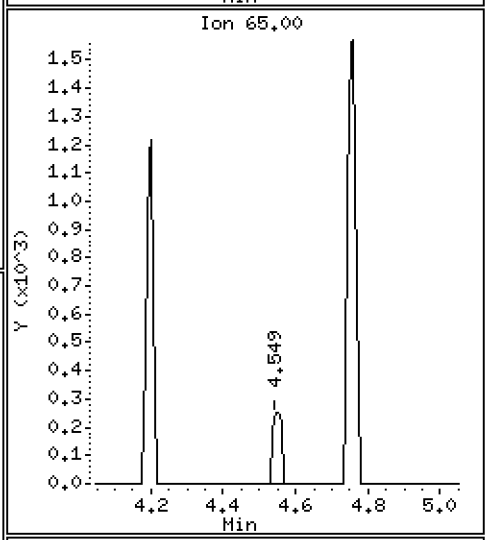


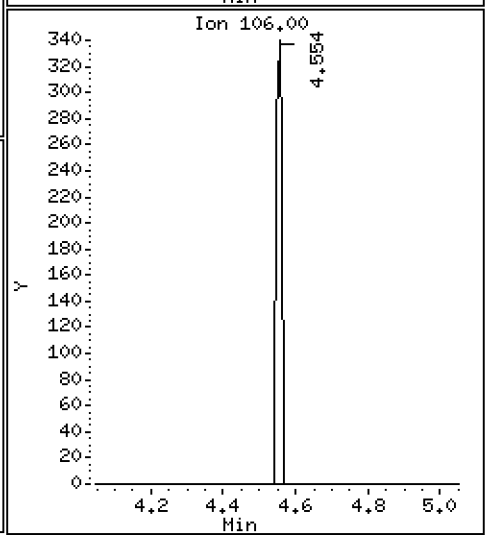












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 71

Date : 24-OCT-2016 23:25

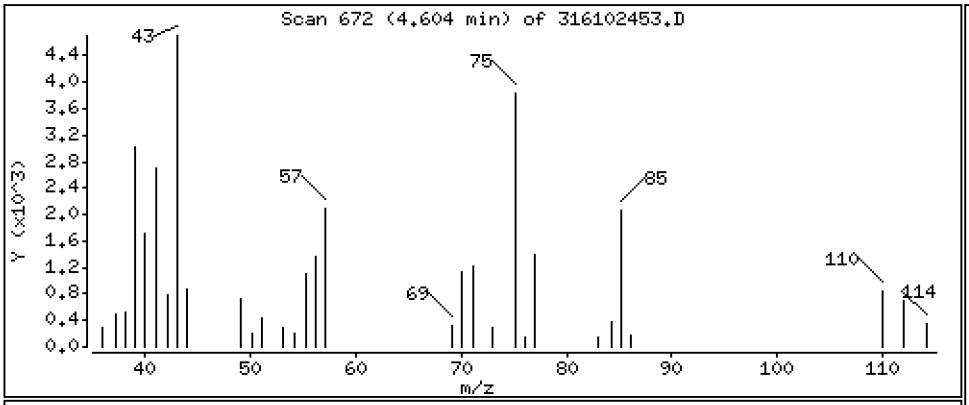
Client ID: Instrument: ms03.i

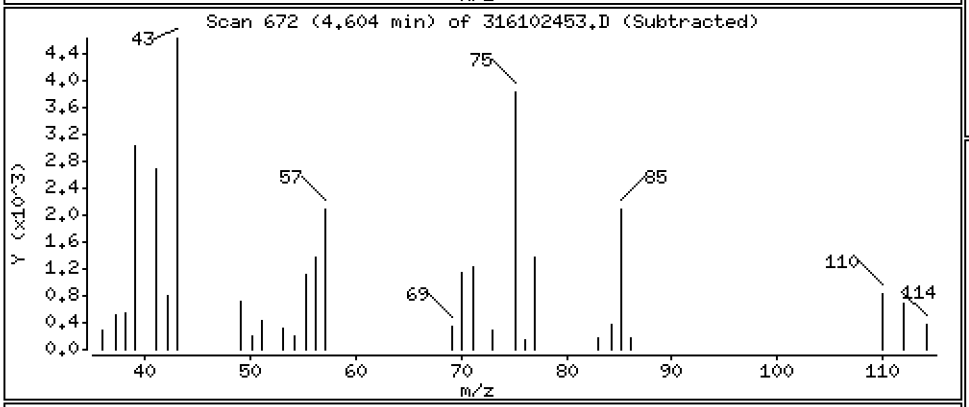
Sample Info: VSTD00.5;;1;1;8;;;

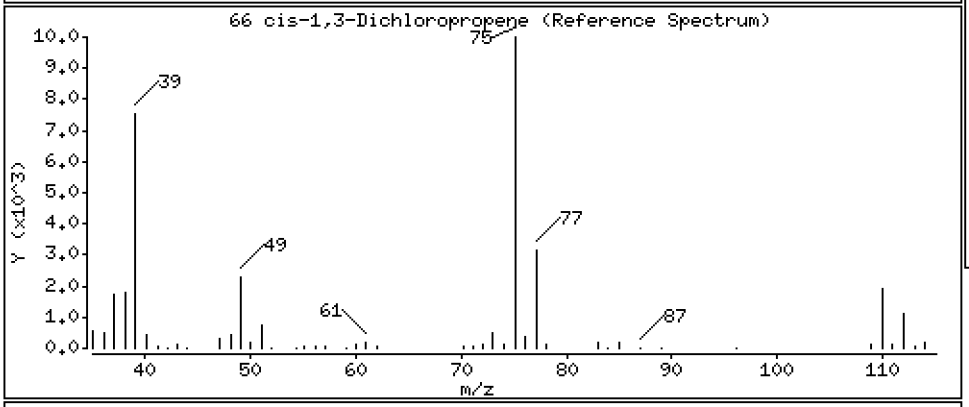
Purge Volume: 5.0 Operator: CJG

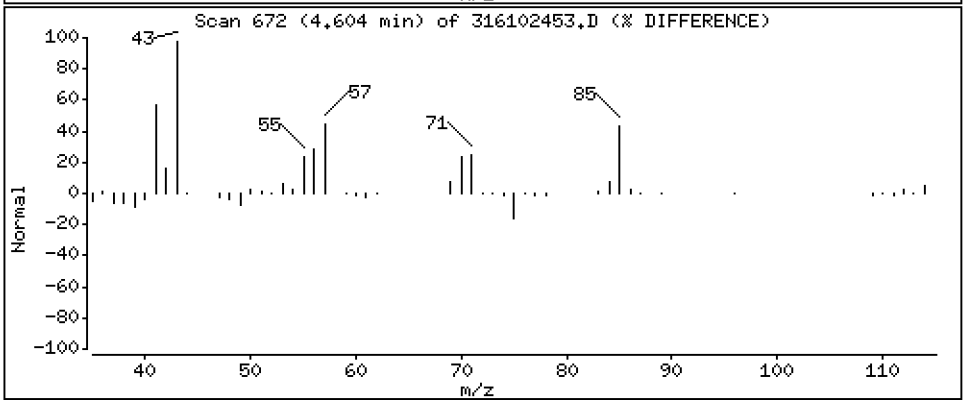
Column phase: DB-VRX Column diameter: 0.25

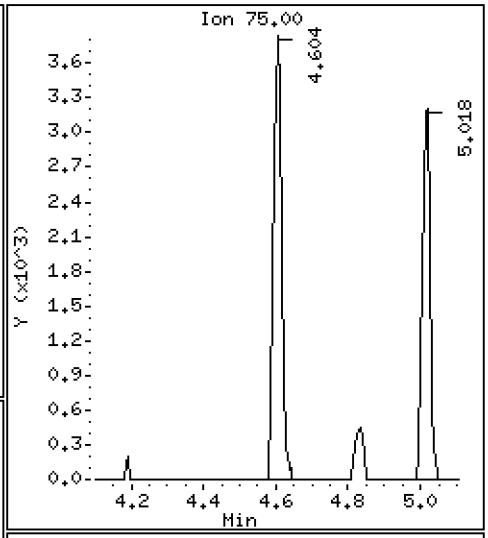
66 cis-1,3-Dichloropropene Concentration: 0.447976 ug/L

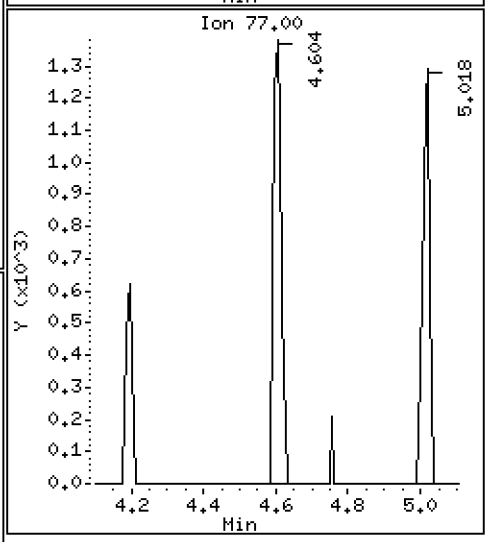












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 72

Date : 24-OCT-2016 23:25

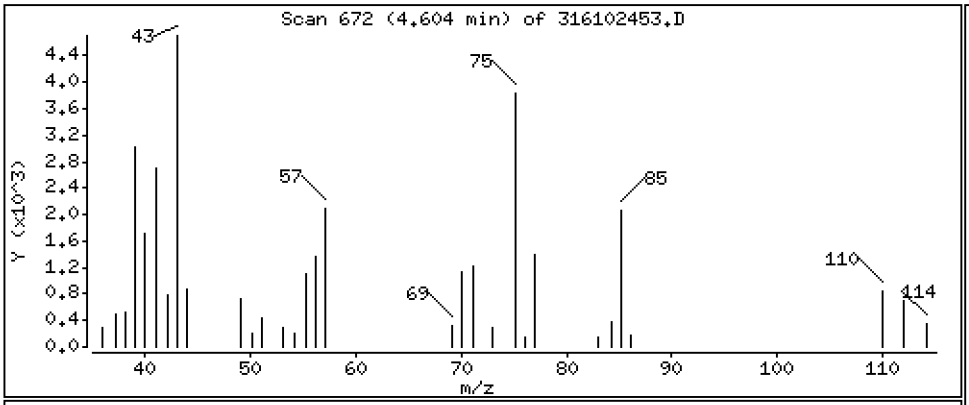
Client ID: Instrument: ms03.i

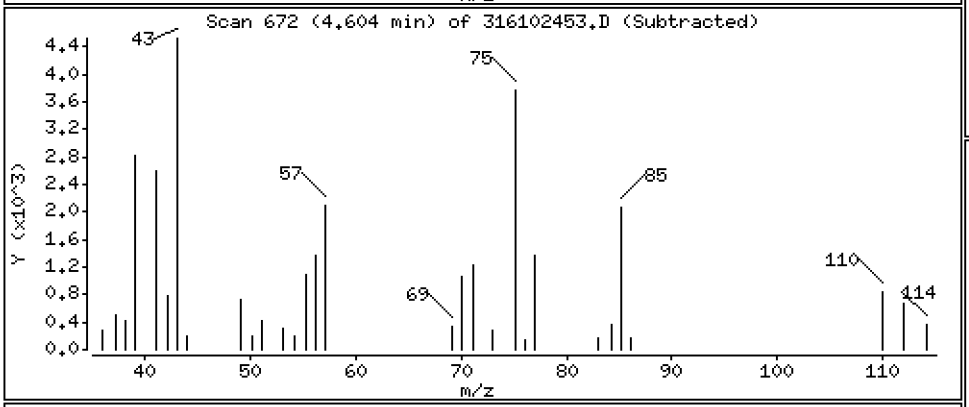
Sample Info: VSTD00.5;;1;1;8;;;

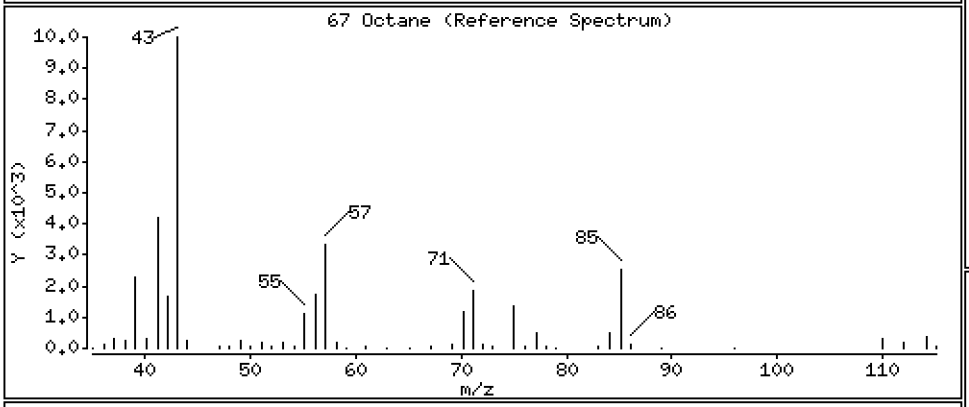
Purge Volume: 5.0 Operator: CJG

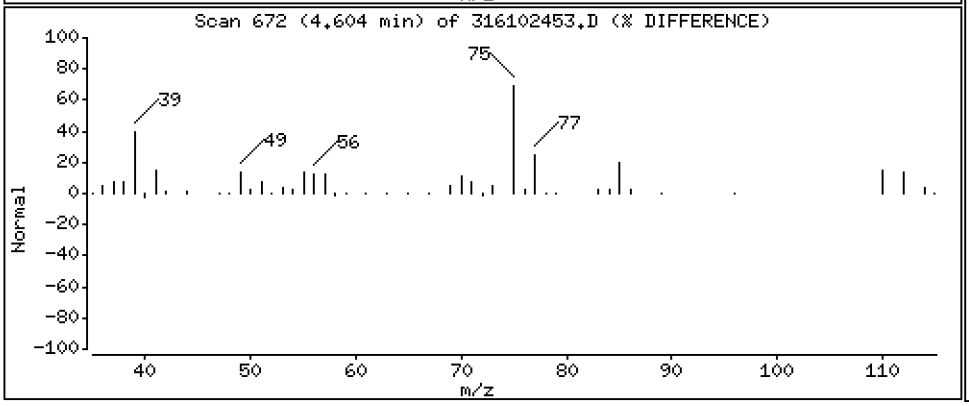
Column phase: DB-VRX Column diameter: 0.25

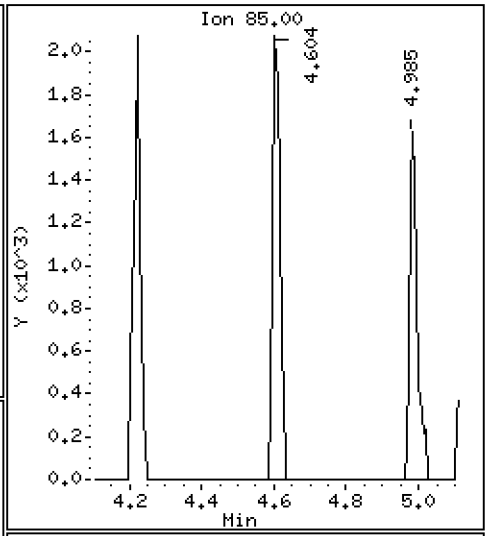
67 Octane Concentration: 0.786164 ug/L

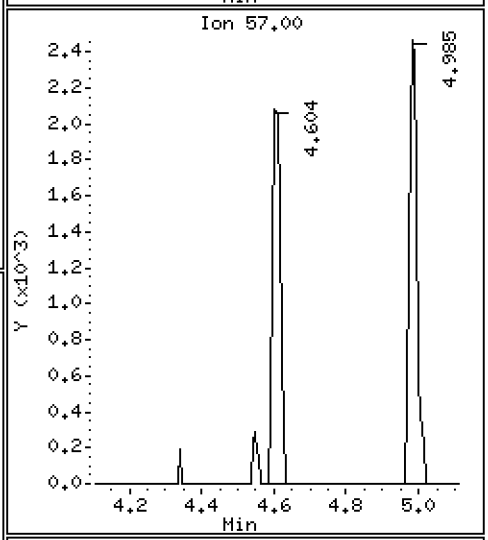


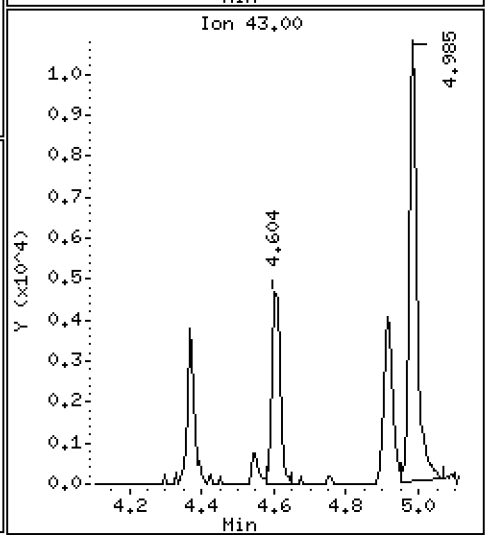












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 73

Date : 24-OCT-2016 23:25

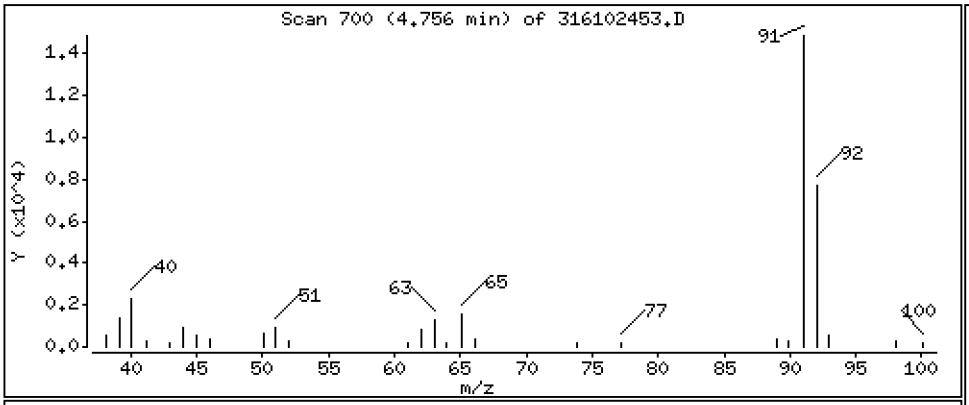
Client ID: Instrument: ms03.i

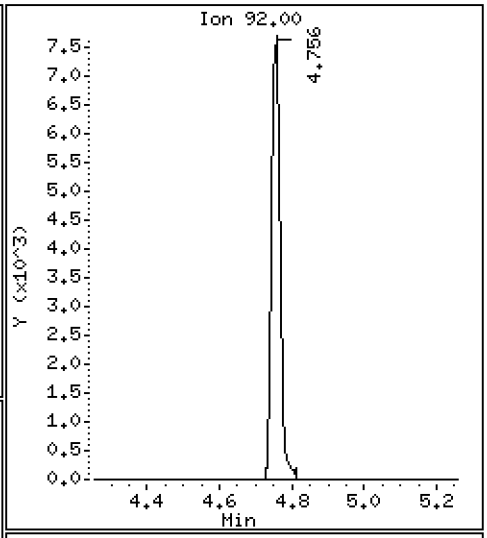
Sample Info: VSTD00.5;;1;1;8;;;

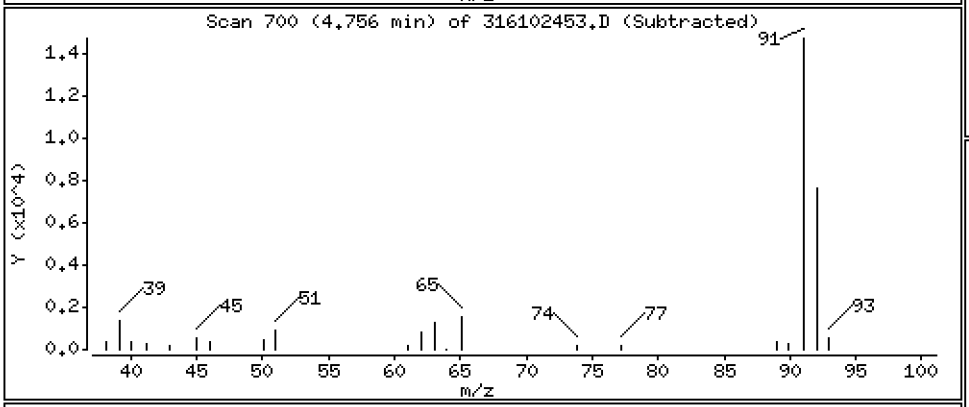
Purge Volume: 5.0 Operator: CJG

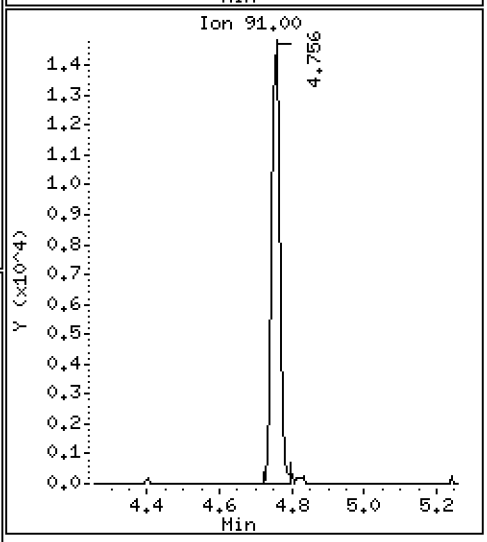
Column phase: DB-VRX Column diameter: 0.25

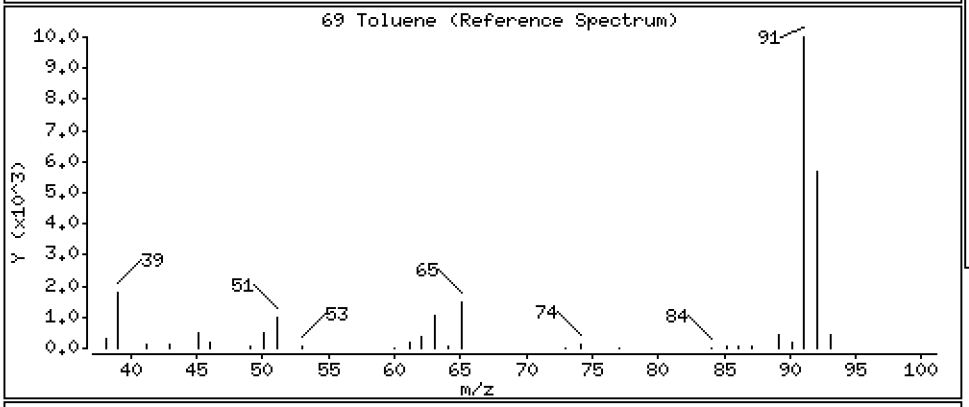
69 Toluene Concentration: 0.596461 ug/L

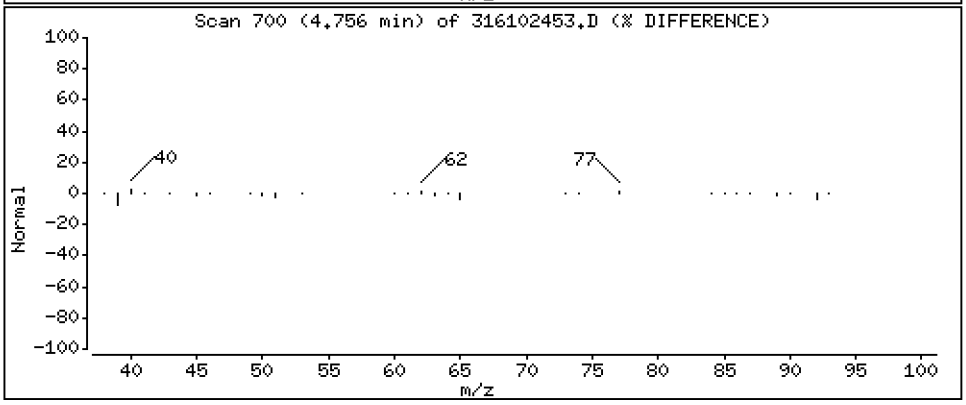












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 74

Date : 24-OCT-2016 23:25

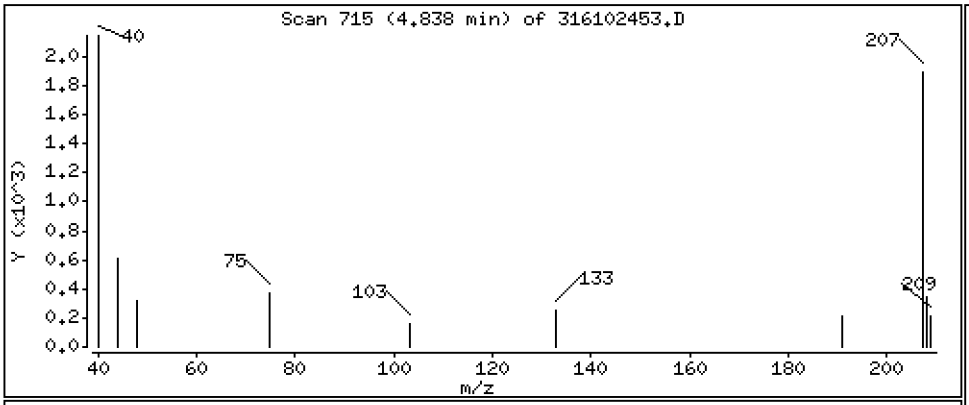
Client ID: Instrument: ms03.i

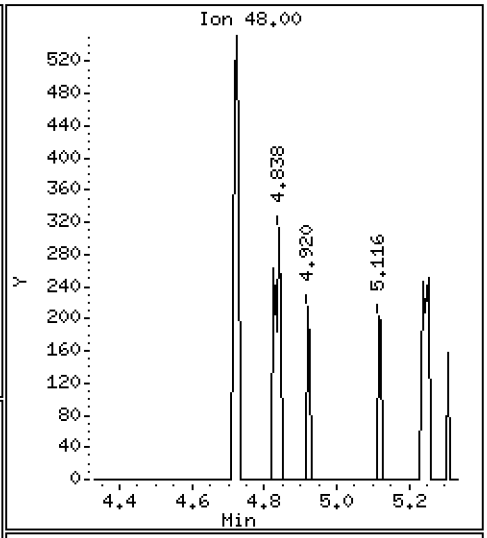
Sample Info: VSTD00.5;;1;1;8;;;

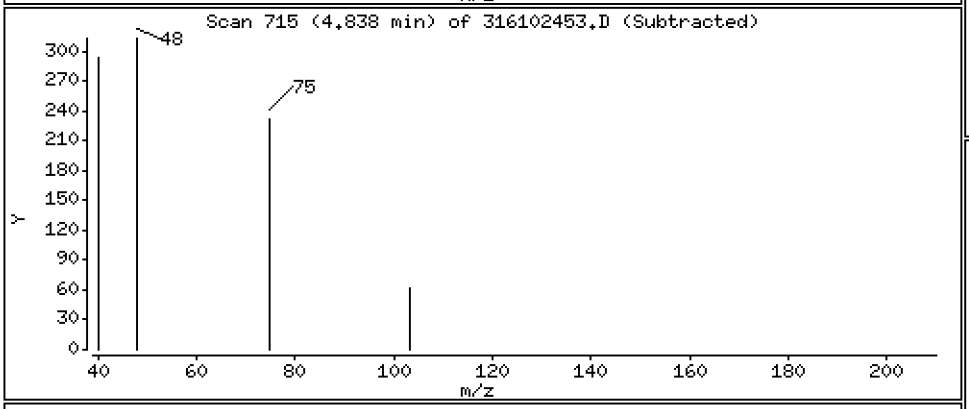
Purge Volume: 5.0 Operator: CJG

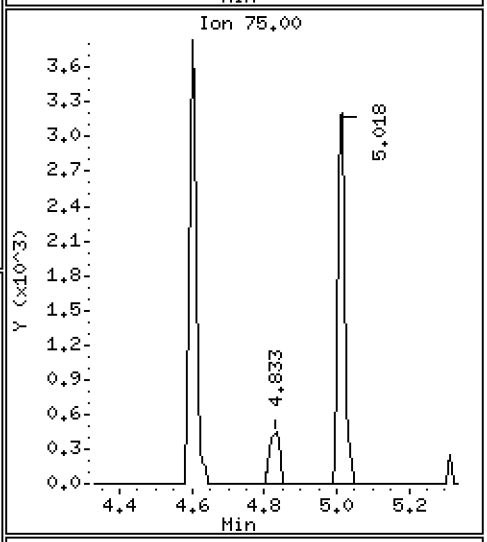
Column phase: DB-VRX Column diameter: 0.25

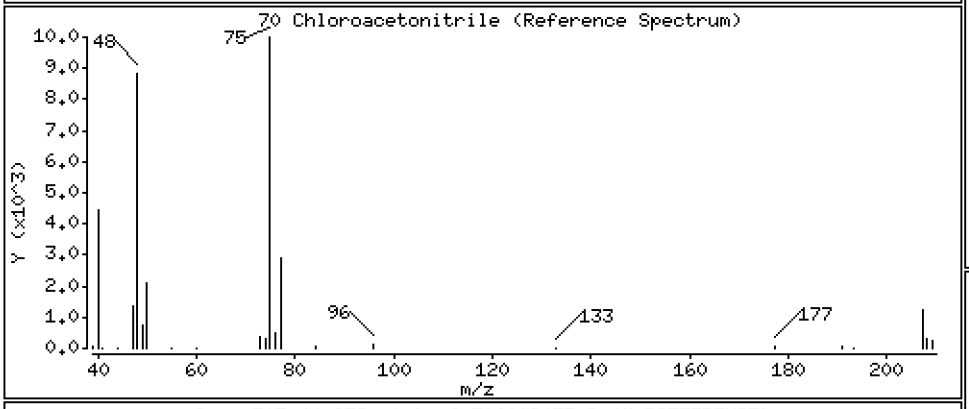
70 Chloroacetonitrile Concentration: 1.84158 ug/L

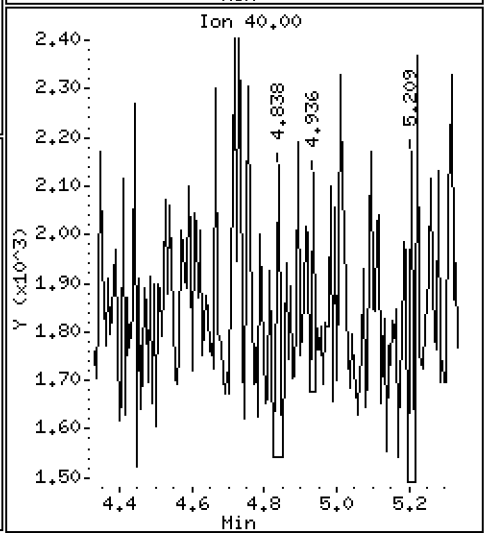


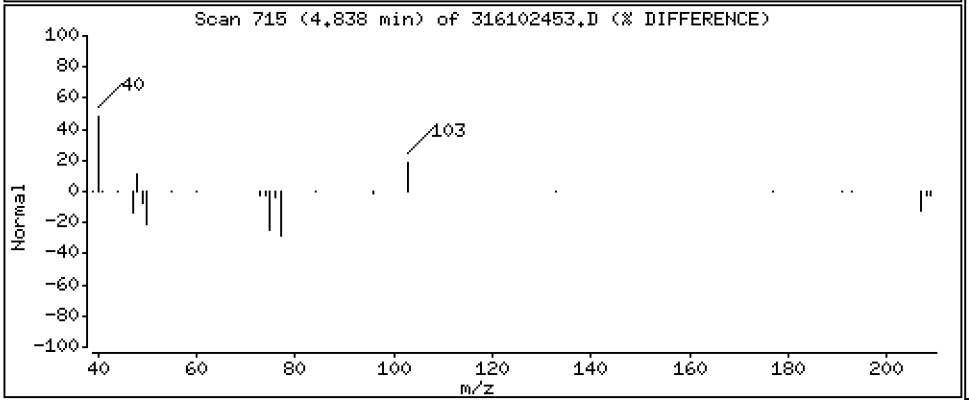












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 75

Date : 24-OCT-2016 23:25

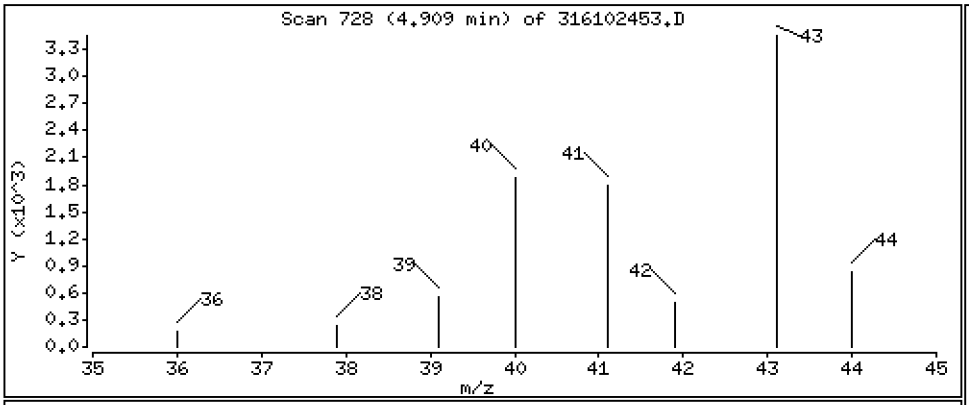
Client ID: Instrument: ms03.i

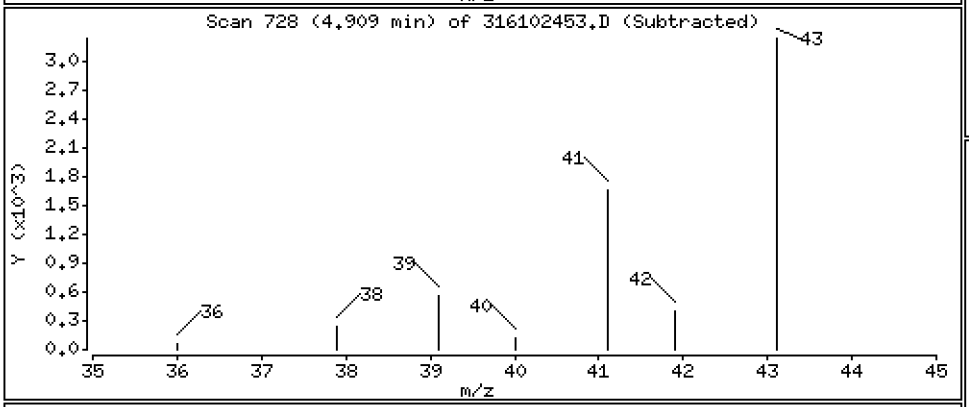
Sample Info: VSTD00.5;;1;1;8;;;

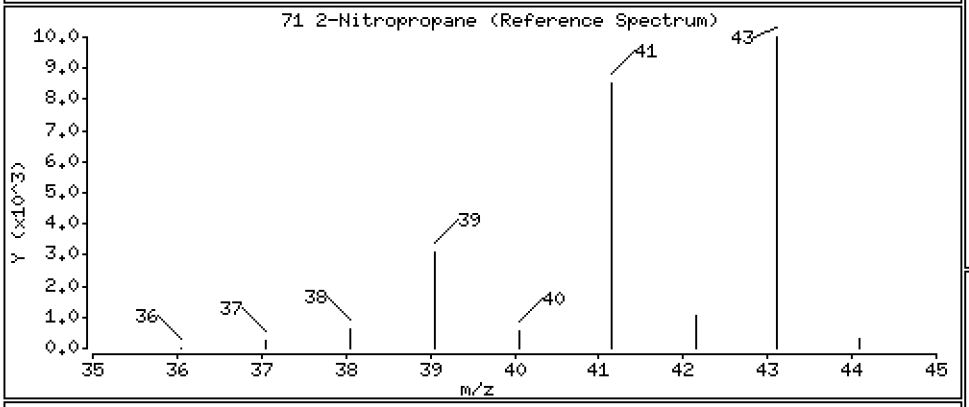
Purge Volume: 5.0 Operator: CJG

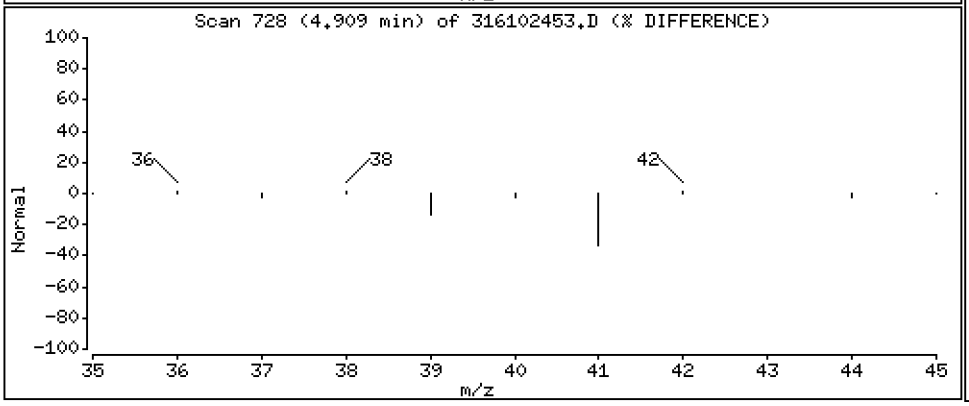
Column phase: DB-VRX Column diameter: 0.25

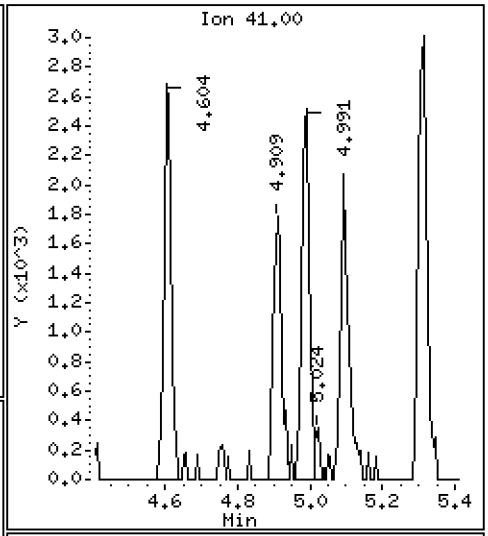
71 2-Nitropropane Concentration: 1.92520 ug/L

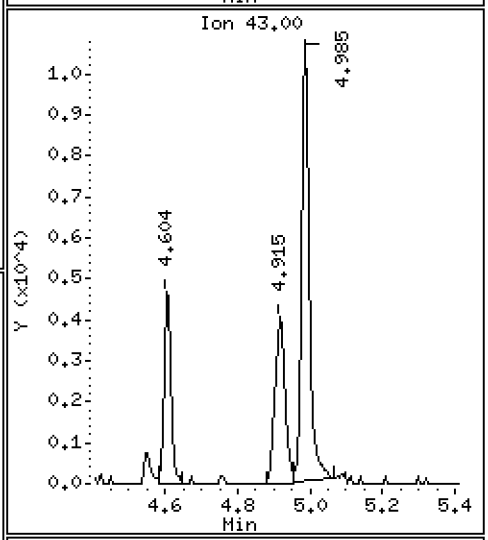


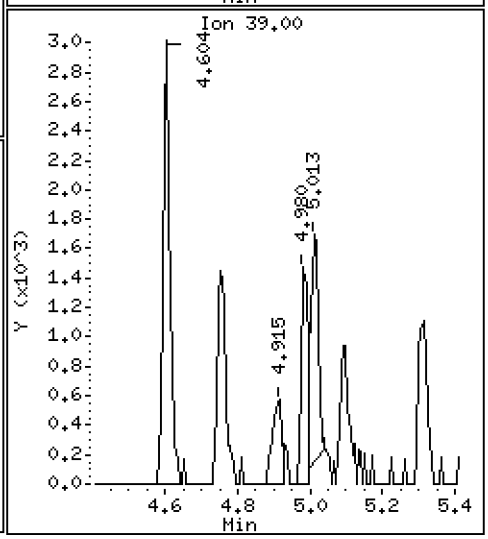












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 76

Date : 24-OCT-2016 23:25

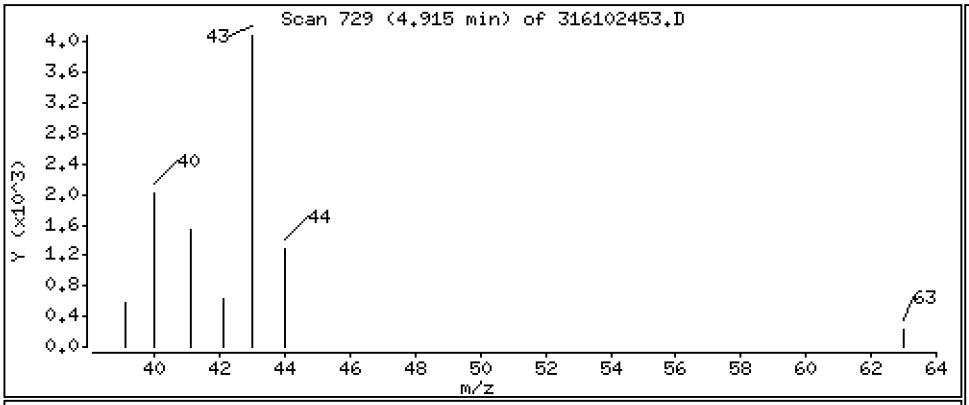
Client ID: Instrument: ms03.i

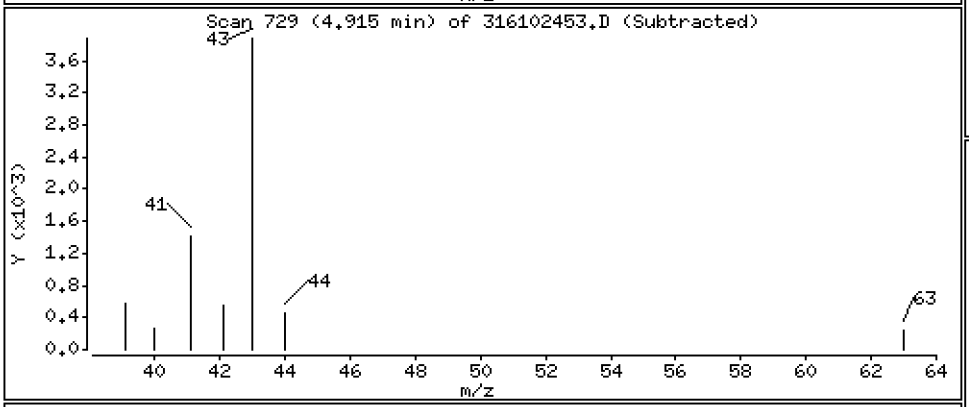
Sample Info: VSTD00.5;;1;1;8;;;

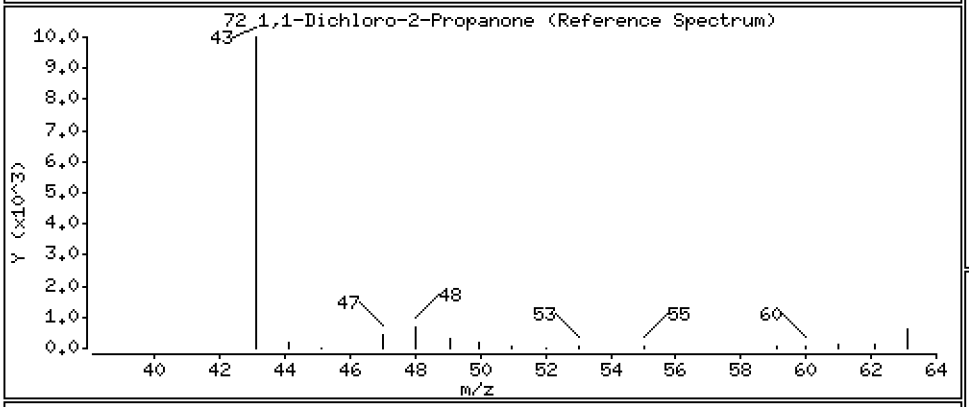
Purge Volume: 5.0 Operator: CJG

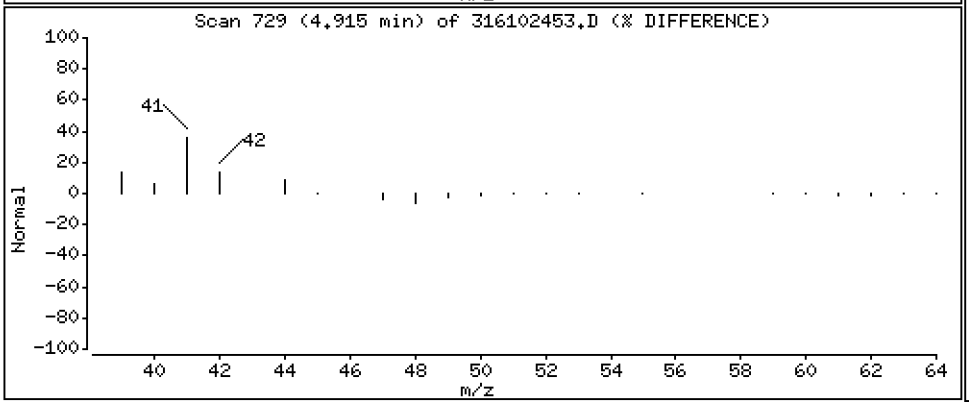
Column phase: DB-VRX Column diameter: 0.25

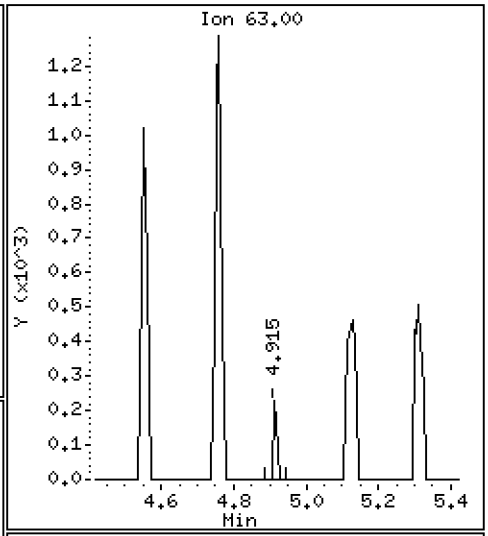
72 1,1-Dichloro-2-Propanone Concentration: 1.02720 ug/L

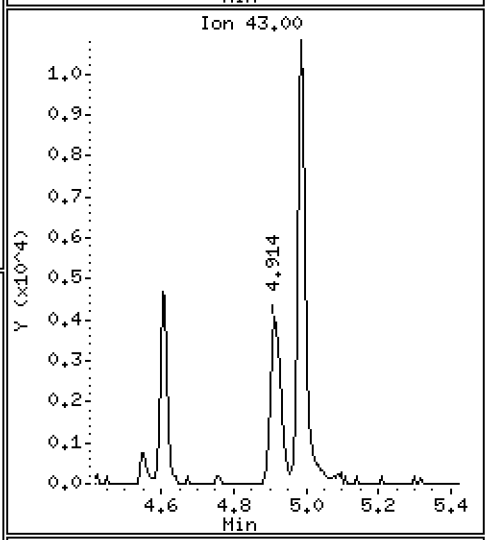


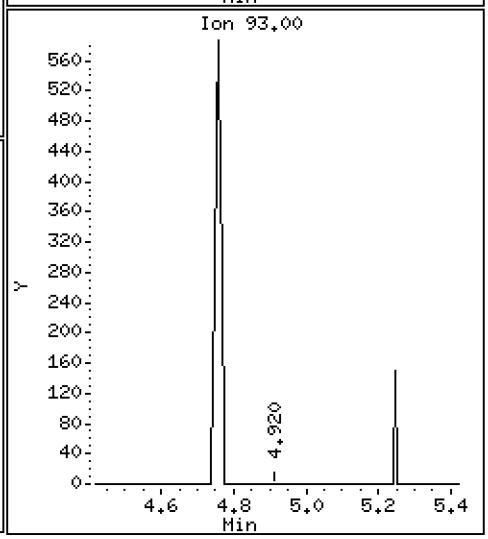












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 77

Date : 24-OCT-2016 23:25

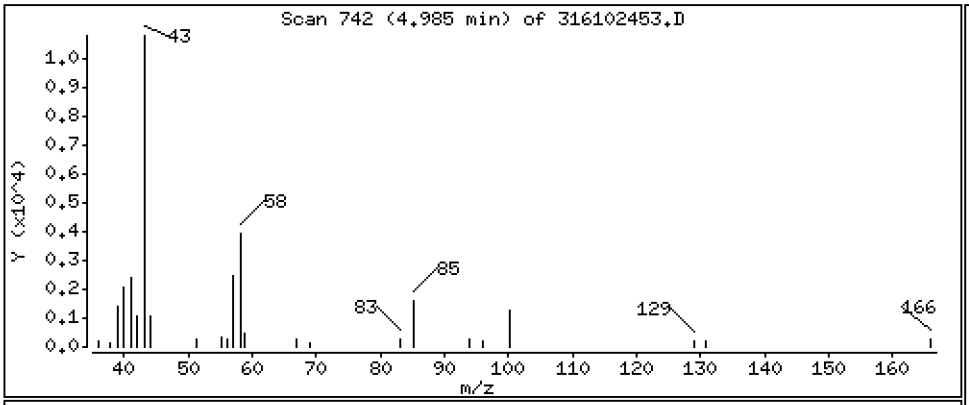
Client ID: Instrument: ms03.i

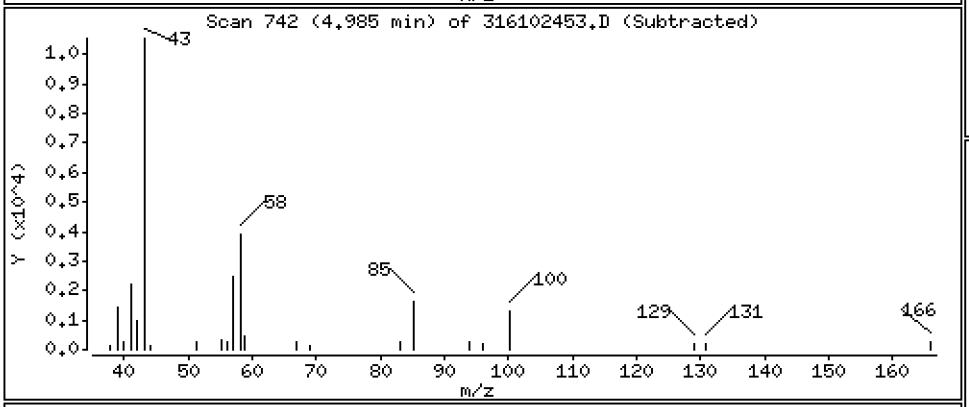
Sample Info: VSTD00.5;;1;1;8;;;

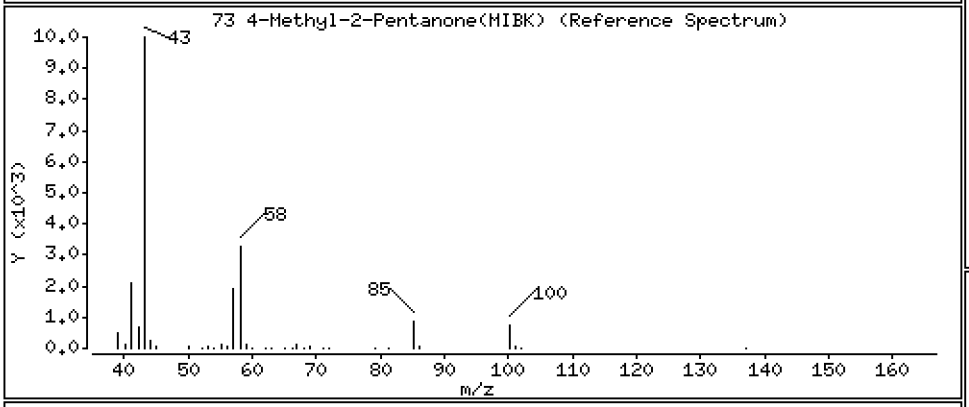
Purge Volume: 5.0 Operator: CJG

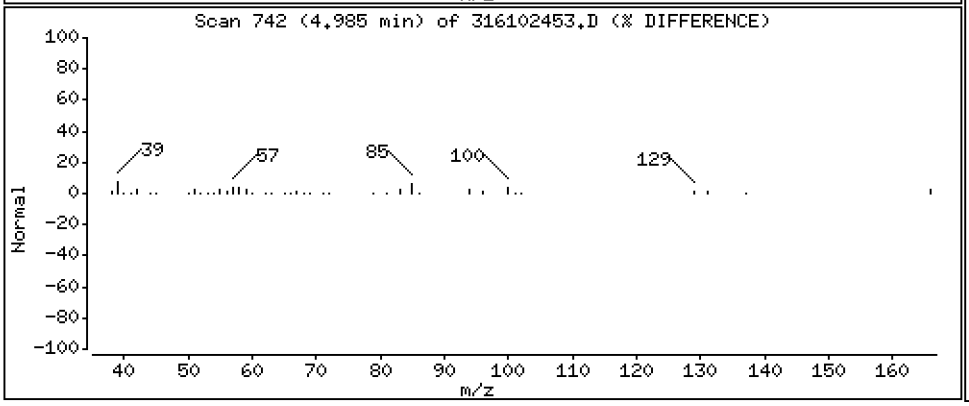
Column phase: DB-VRX Column diameter: 0.25

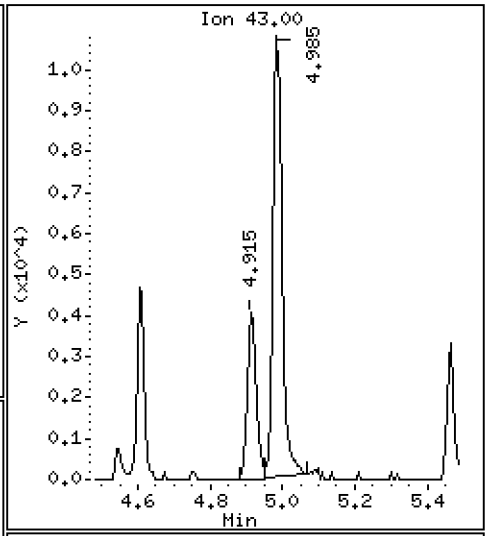
73 4-Methyl-2-Pentanone(MIBK) Concentration: 2.31685 ug/L

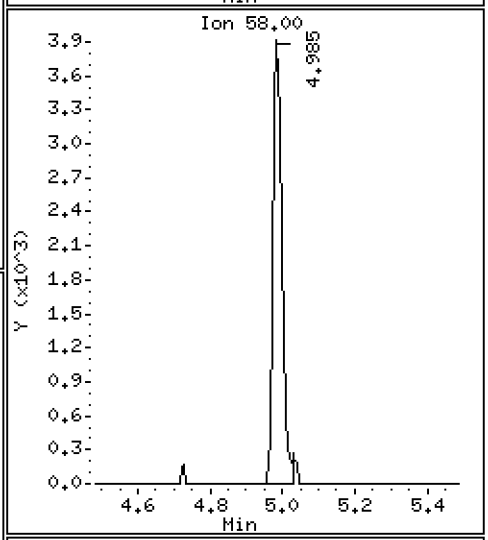


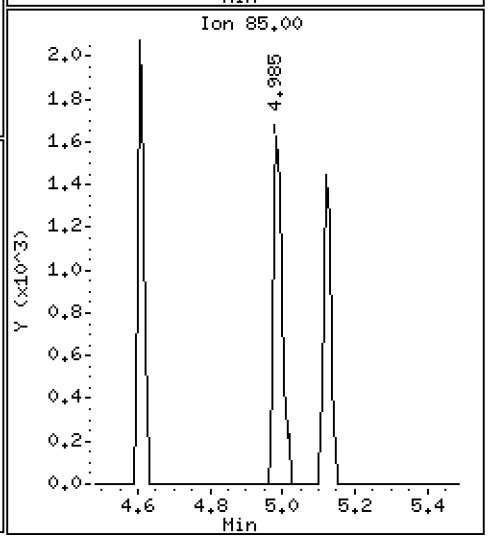












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 78

Date : 24-OCT-2016 23:25

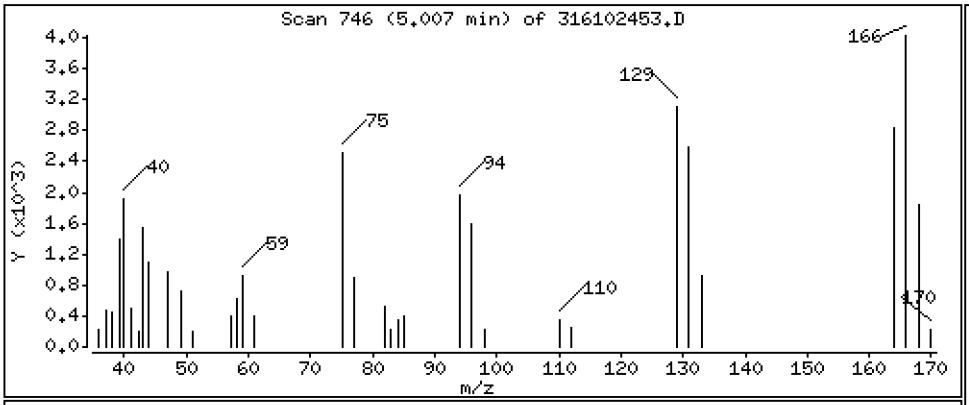
Client ID: Instrument: ms03.i

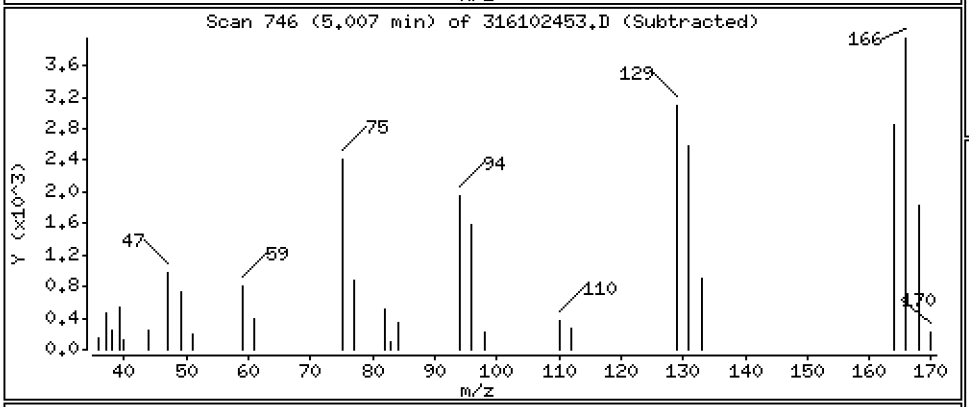
Sample Info: VSTD00.5;;1;1;8;;;

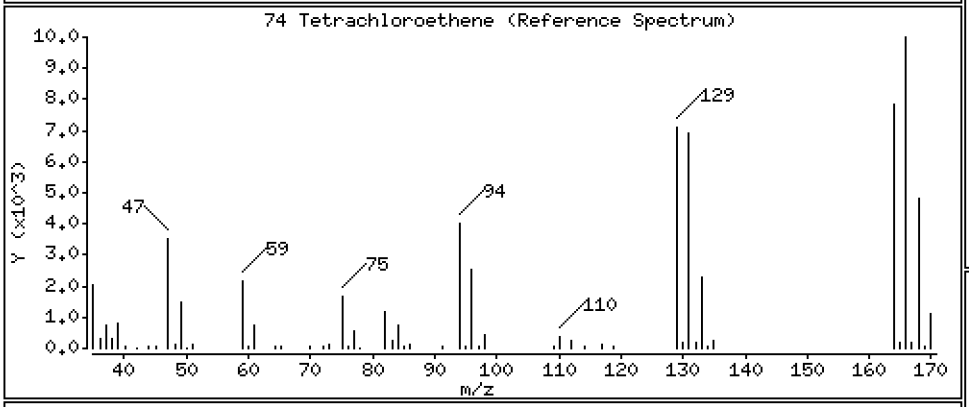
Purge Volume: 5.0 Operator: CJG

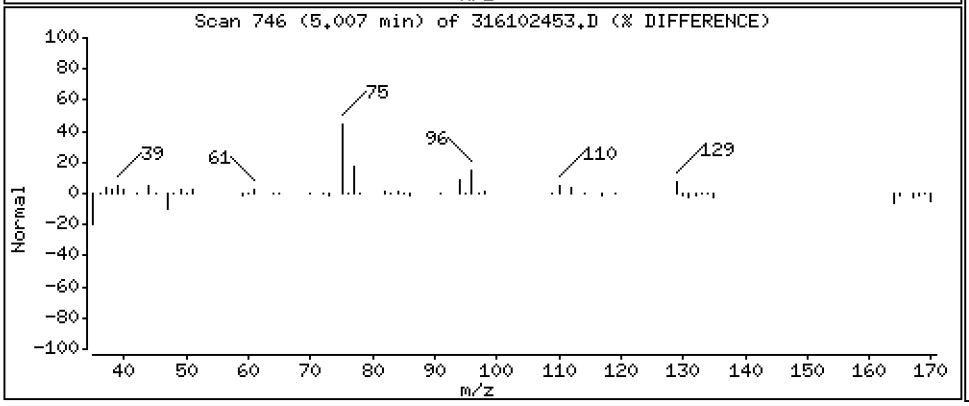
Column phase: DB-VRX Column diameter: 0.25

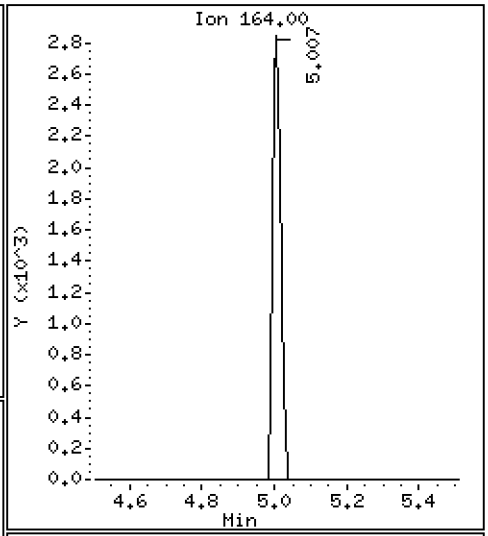
74 Tetrachloroethene Concentration: 0.841054 ug/L

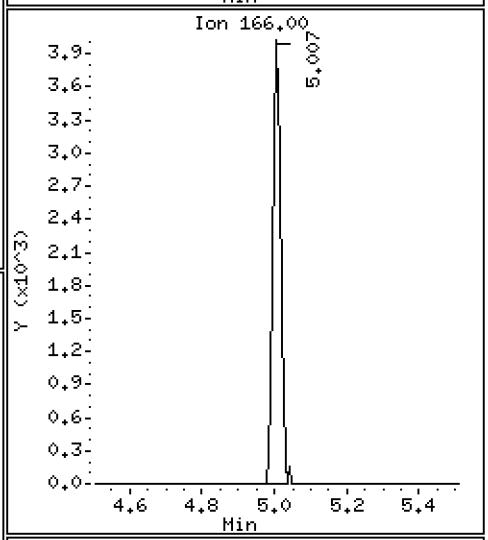


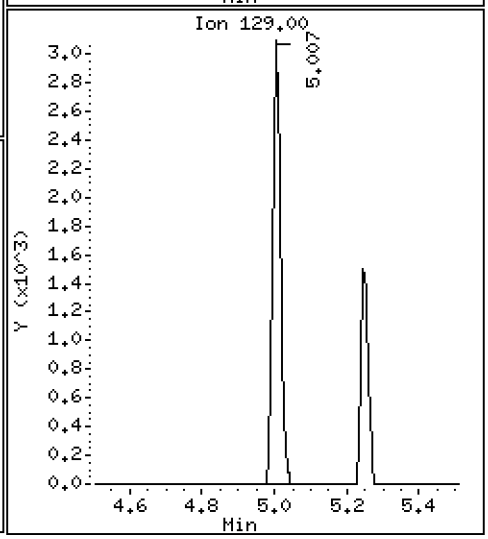












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 79

Date : 24-OCT-2016 23:25

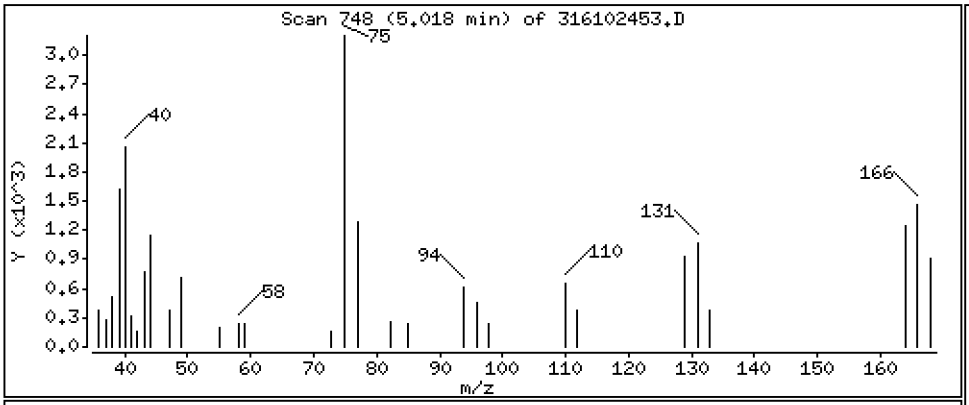
Client ID: Instrument: ms03.i

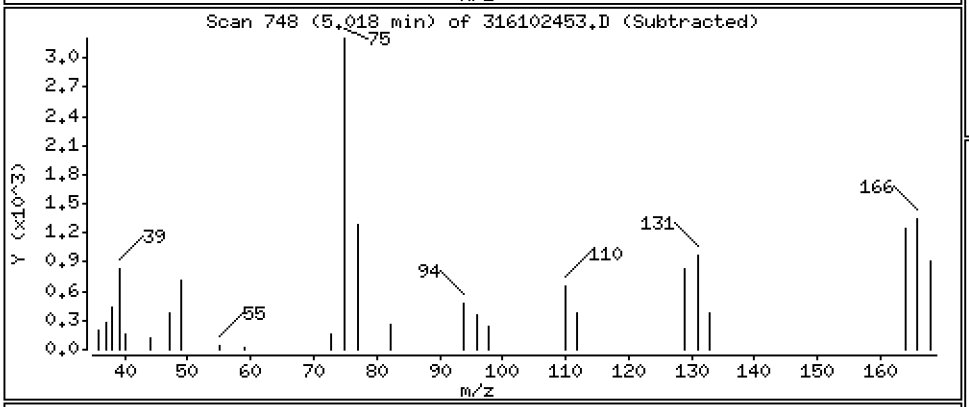
Sample Info: VSTD00.5;;1;1;8;;;

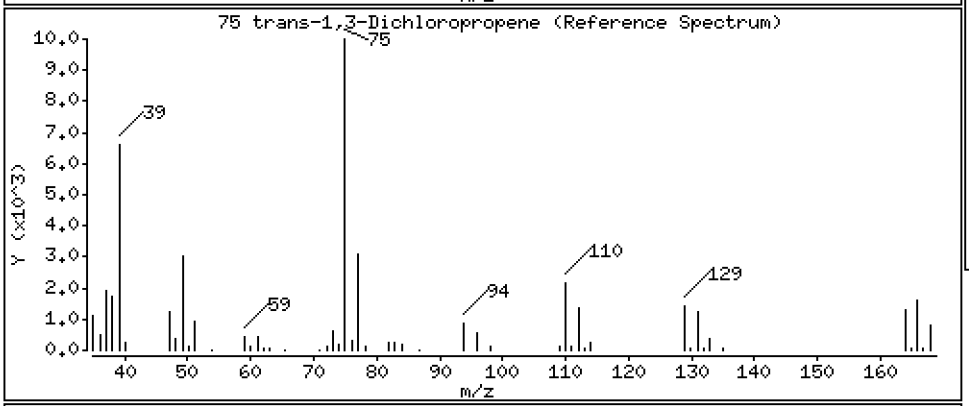
Purge Volume: 5.0 Operator: CJG

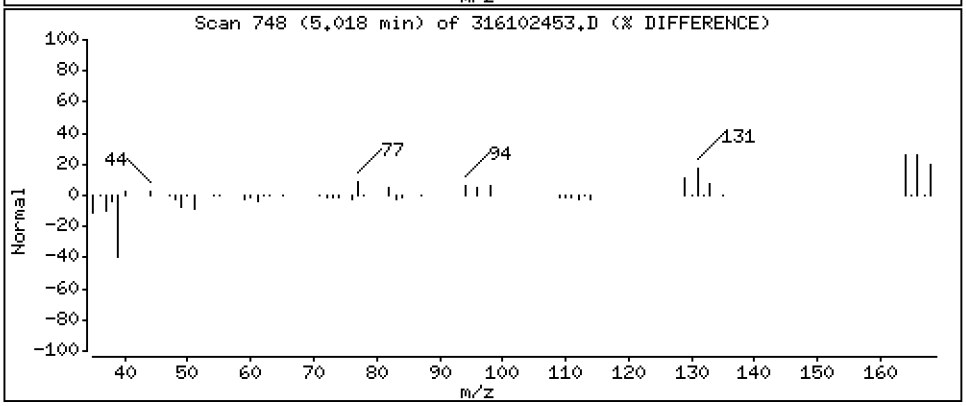
Column phase: DB-VRX Column diameter: 0.25

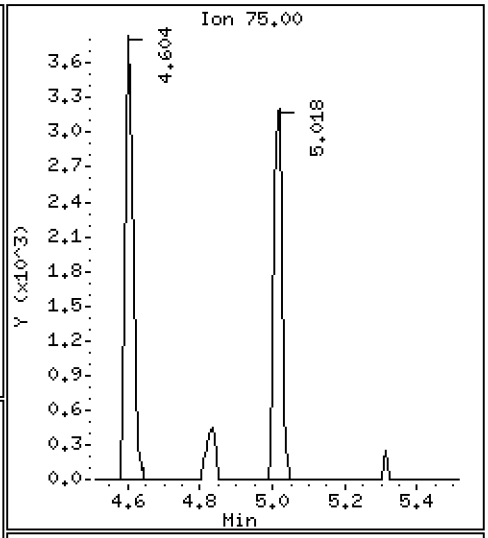
75 trans-1,3-Dichloropropene Concentration: 0.433867 ug/L

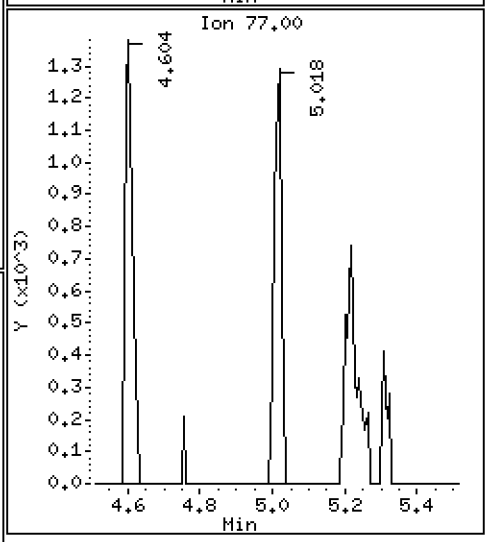












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 80

Date : 24-OCT-2016 23:25

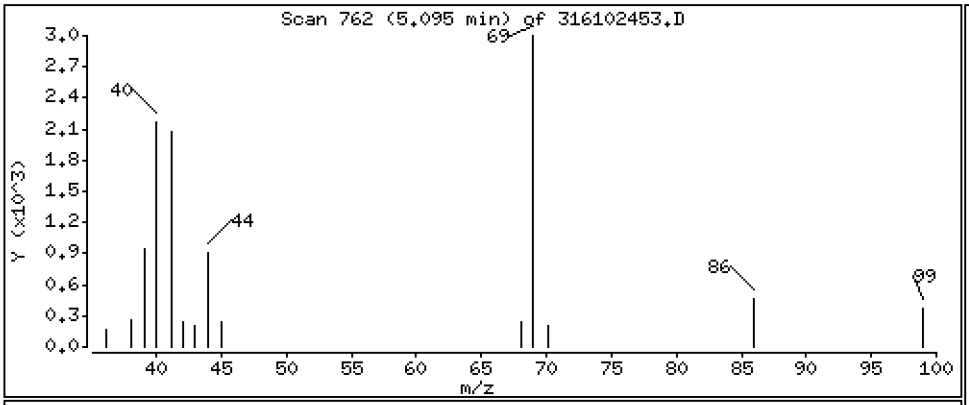
Client ID: Instrument: ms03.i

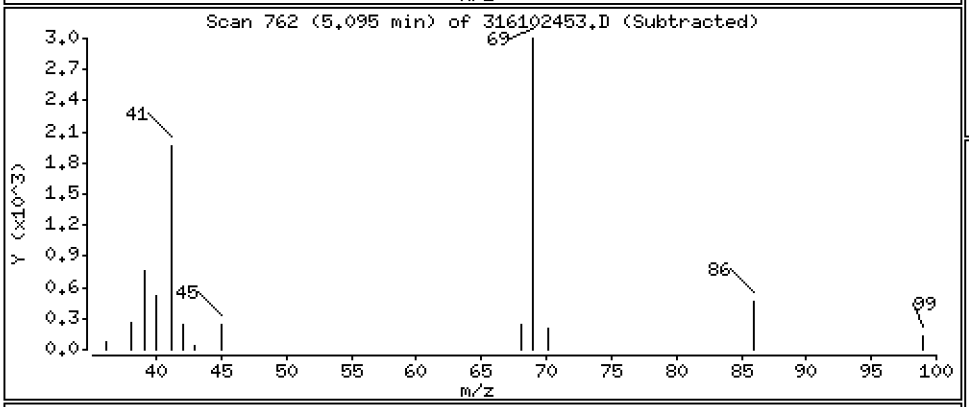
Sample Info: VSTD00.5;;1;1;8;;;

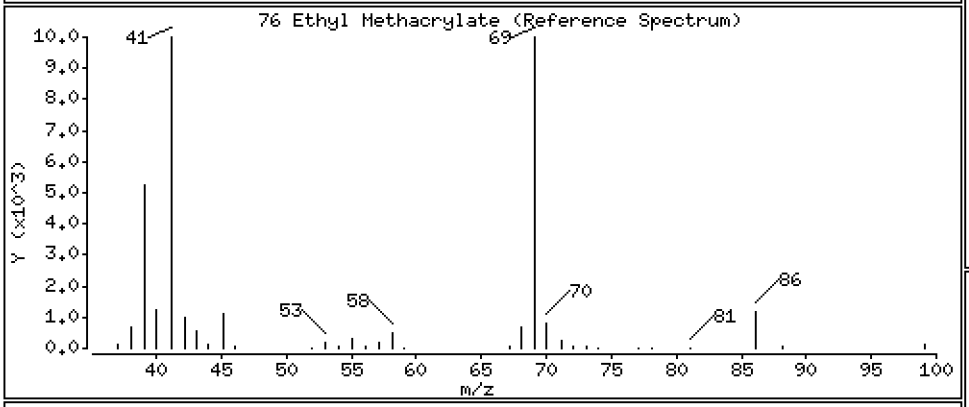
Purge Volume: 5.0 Operator: CJG

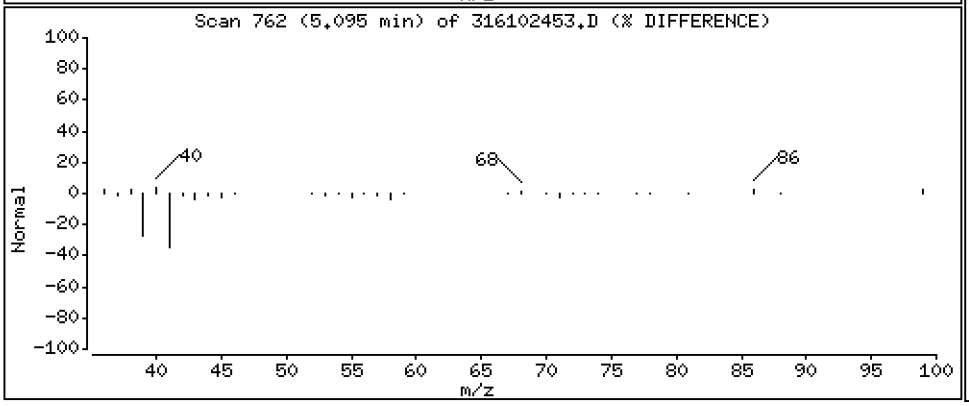
Column phase: DB-VRX Column diameter: 0.25

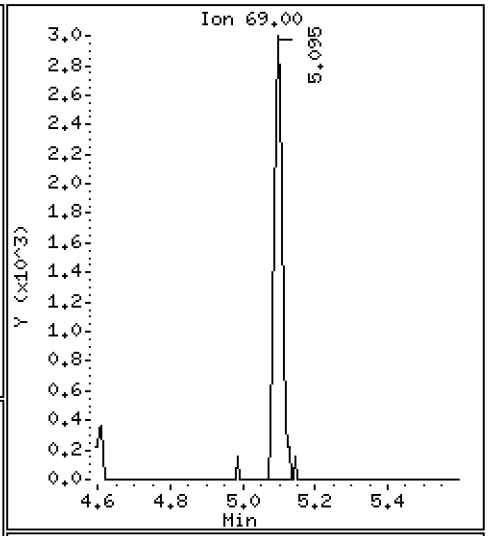
76 Ethyl Methacrylate Concentration: 0.437379 ug/L

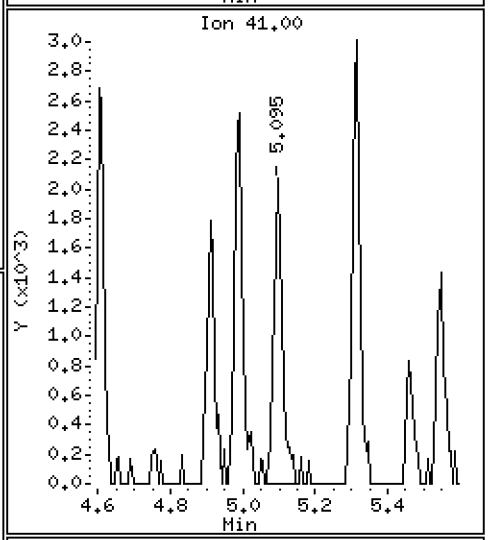


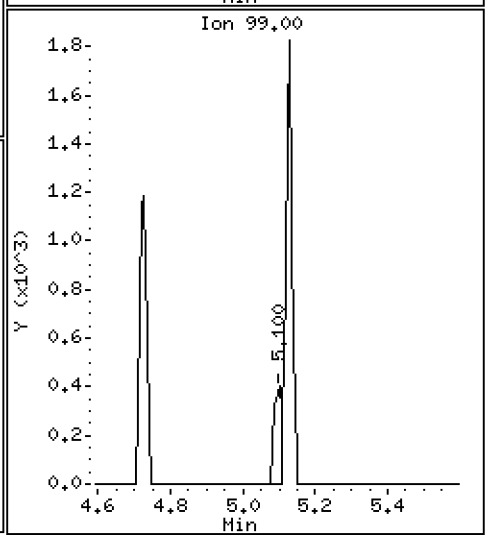












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 81

Date : 24-OCT-2016 23:25

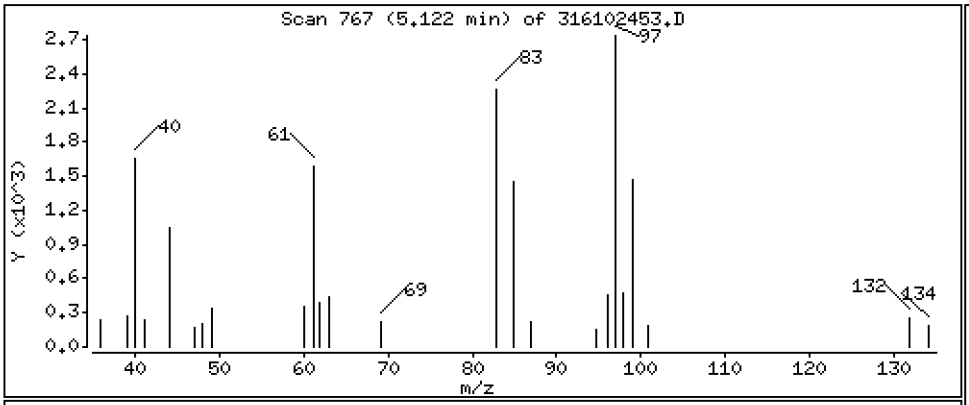
Client ID: Instrument: ms03.i

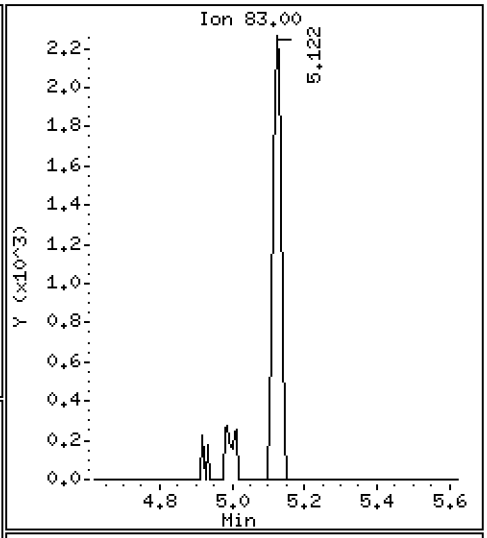
Sample Info: VSTD00.5;;1;1;8;;;

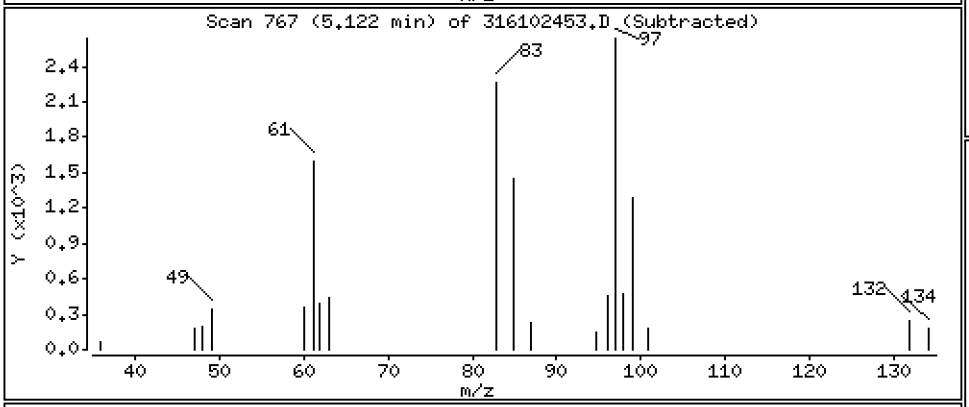
Purge Volume: 5.0 Operator: CJG

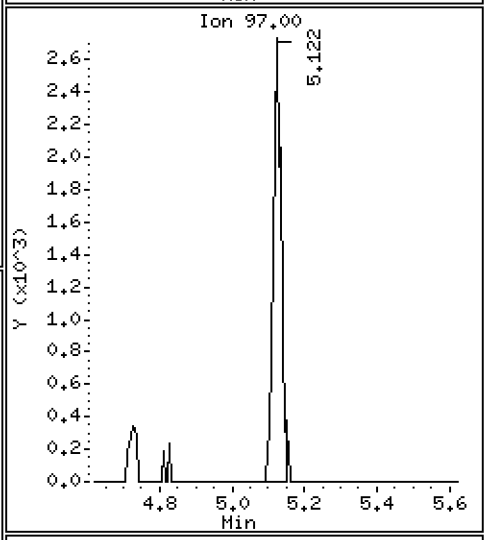
Column phase: DB-VRX Column diameter: 0.25

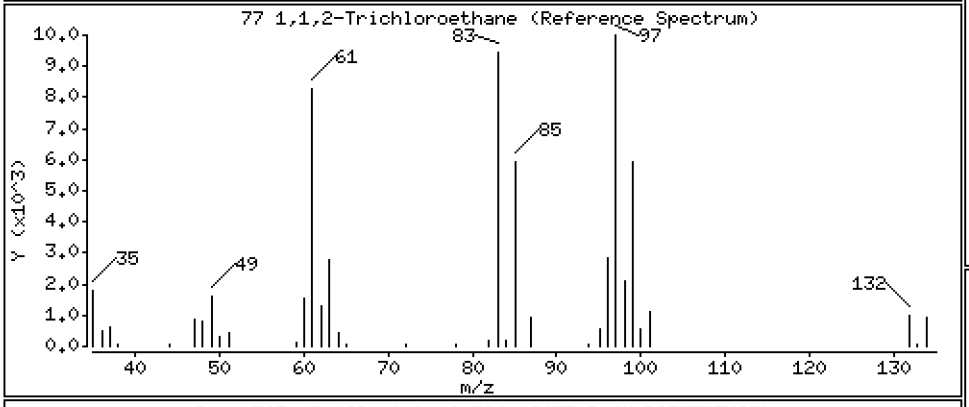
77 1,1,2-Trichloroethane Concentration: 0.592134 ug/L

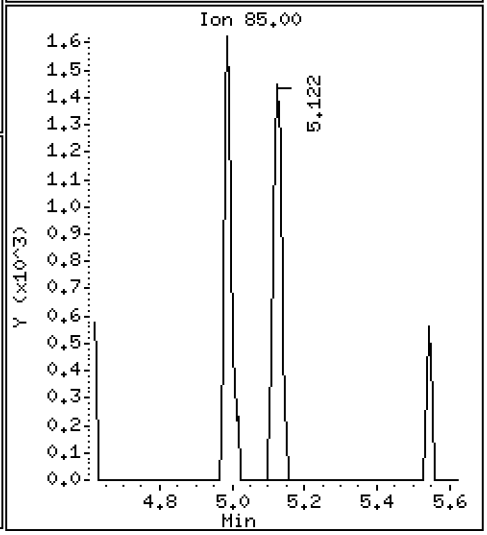


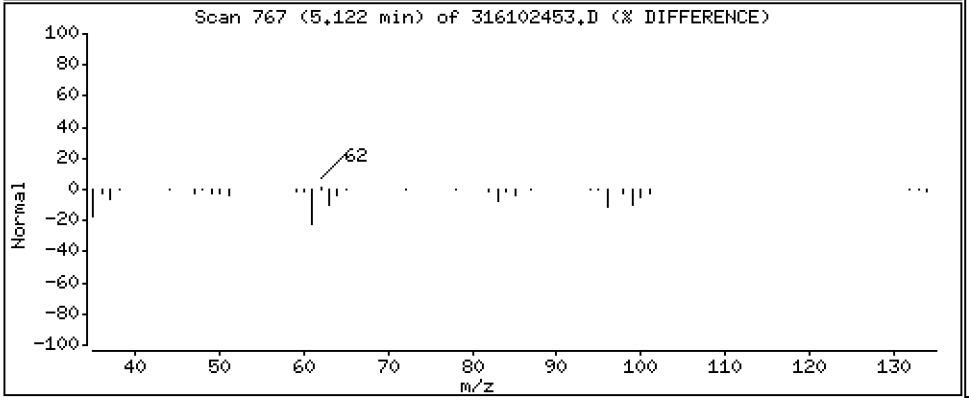












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 82

Date : 24-OCT-2016 23:25

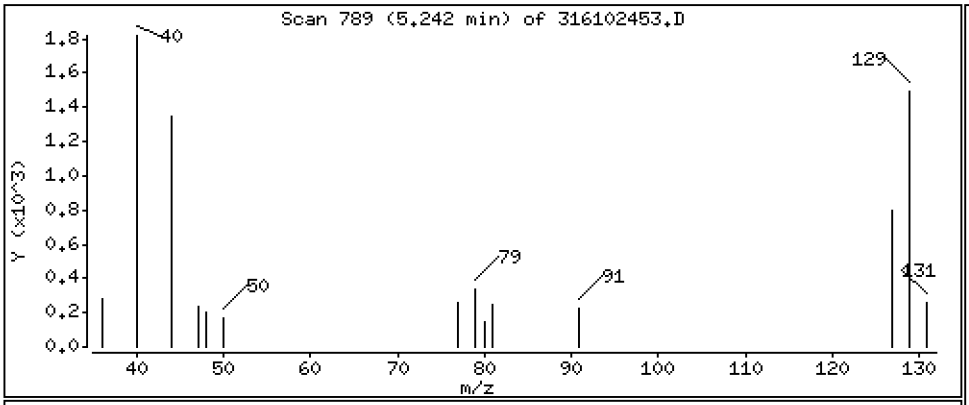
Client ID: Instrument: ms03.i

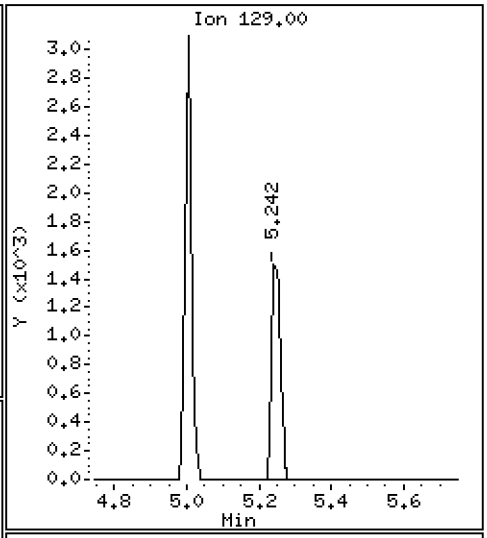
Sample Info: VSTD00.5;;1;1;8;;;

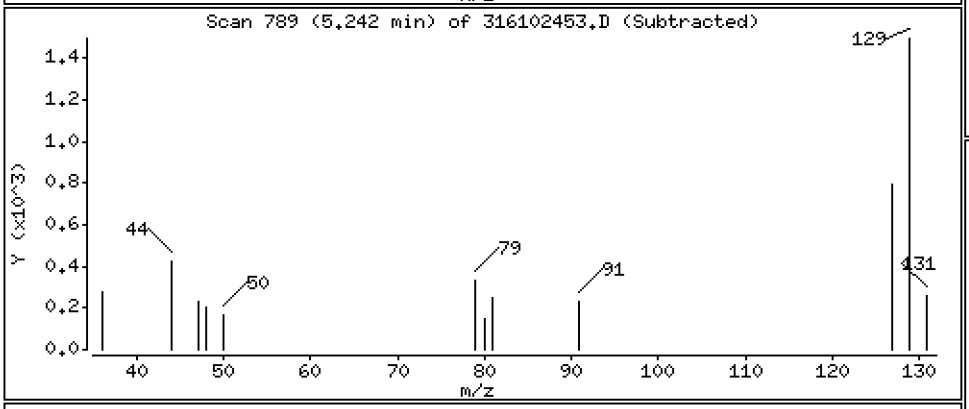
Purge Volume: 5.0 Operator: CJG

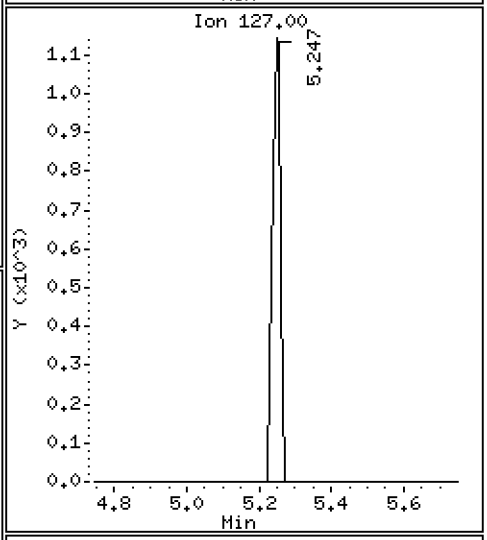
Column phase: DB-VRX Column diameter: 0.25

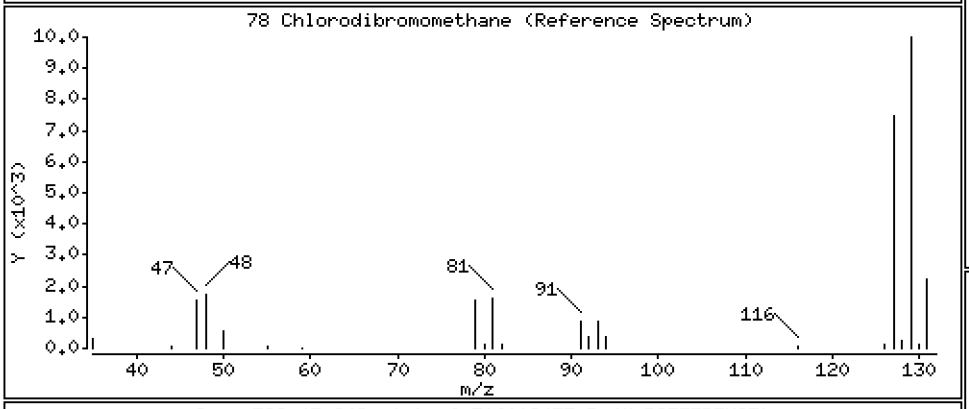
78 Chlorodibromomethane Concentration: 0.422849 ug/L

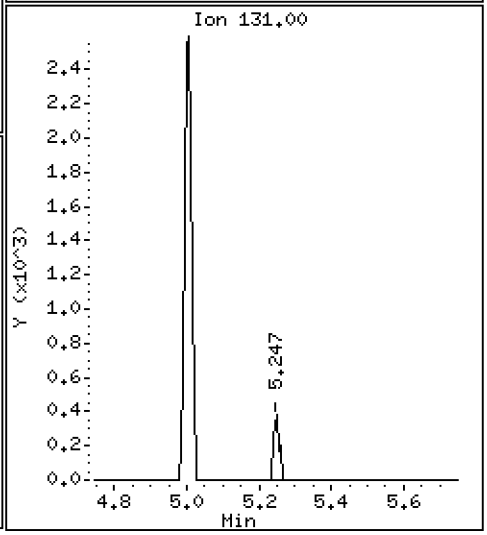


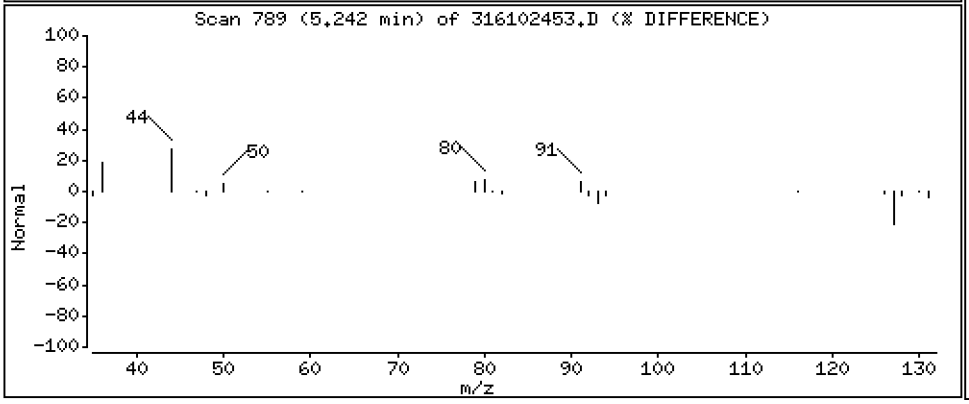












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 83

Date : 24-OCT-2016 23:25

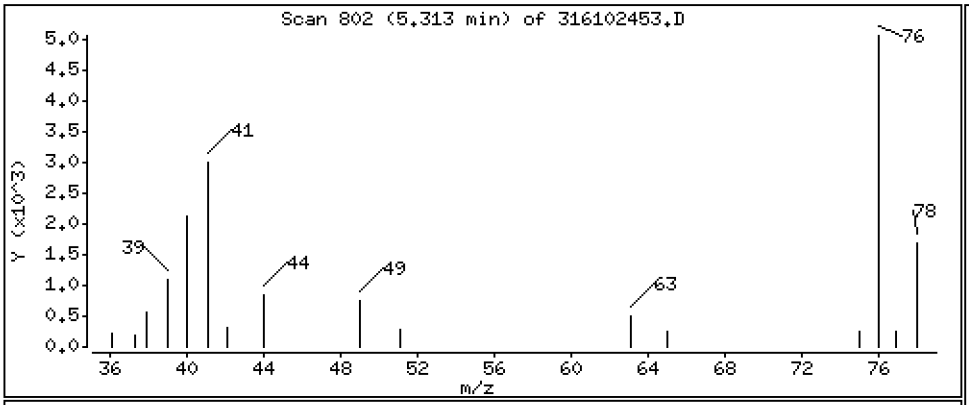
Client ID: Instrument: ms03.i

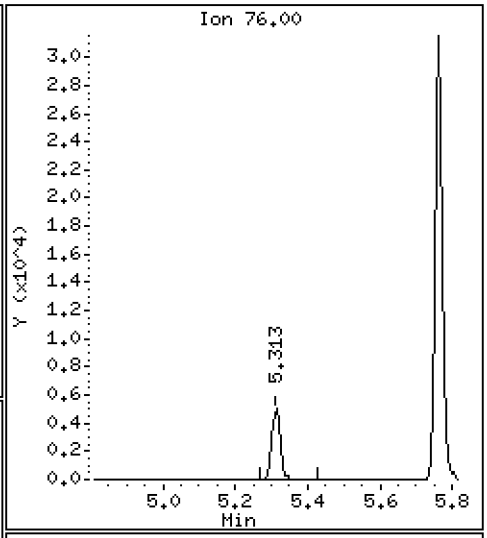
Sample Info: VSTD00.5;;1;1;8;;;

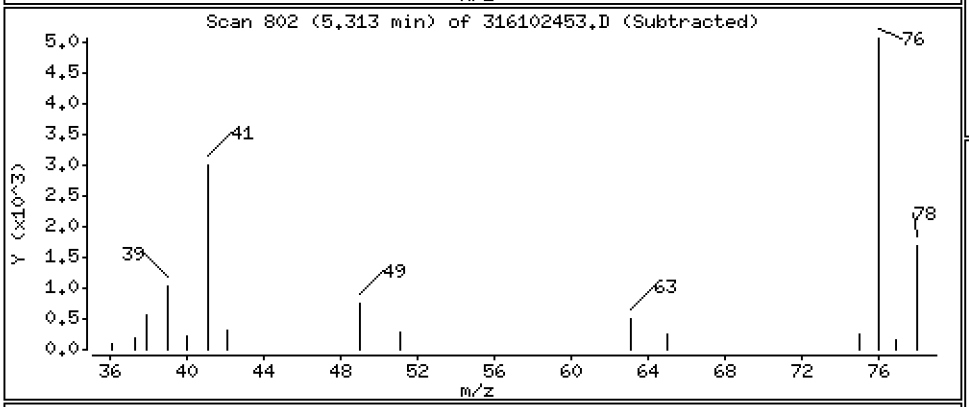
Purge Volume: 5.0 Operator: CJG

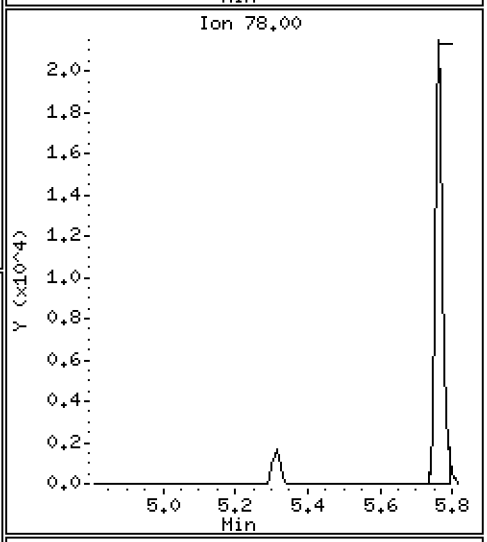
Column phase: DB-VRX Column diameter: 0.25

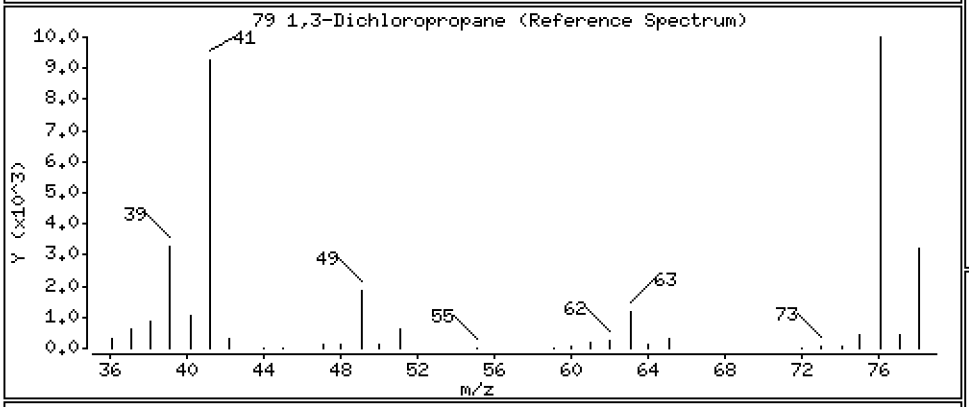
79 1,3-Dichloropropane Concentration: 0.621572 ug/L

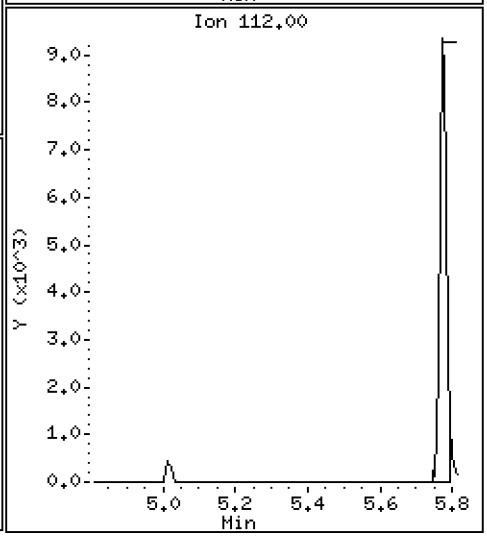


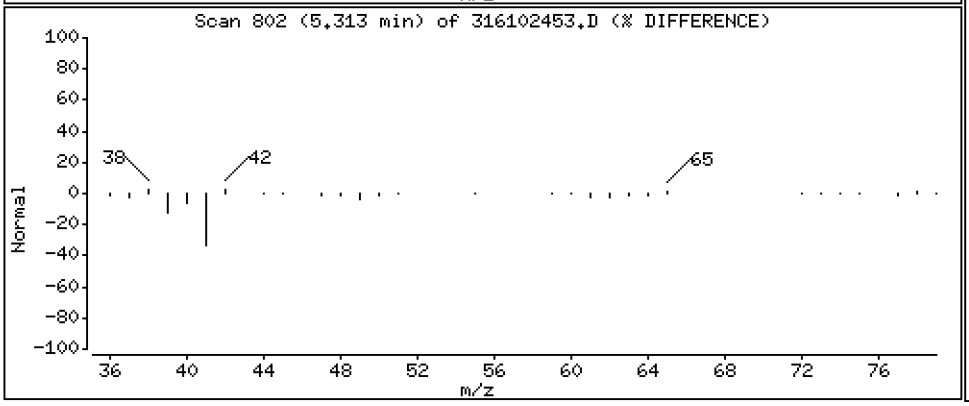












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 84

Date : 24-OCT-2016 23:25

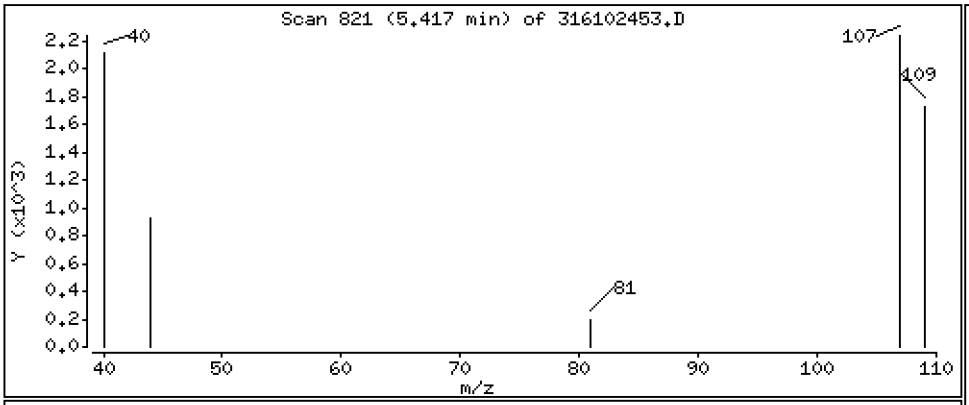
Client ID: Instrument: ms03.i

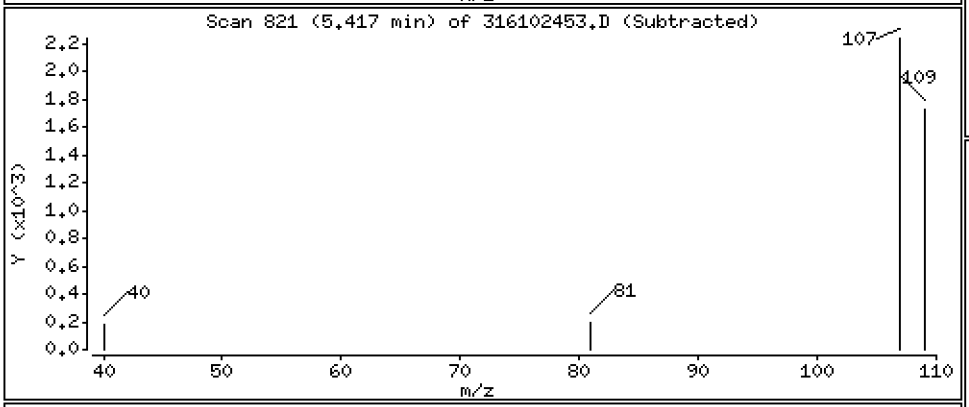
Sample Info: VSTD00.5;;1;1;8;;;

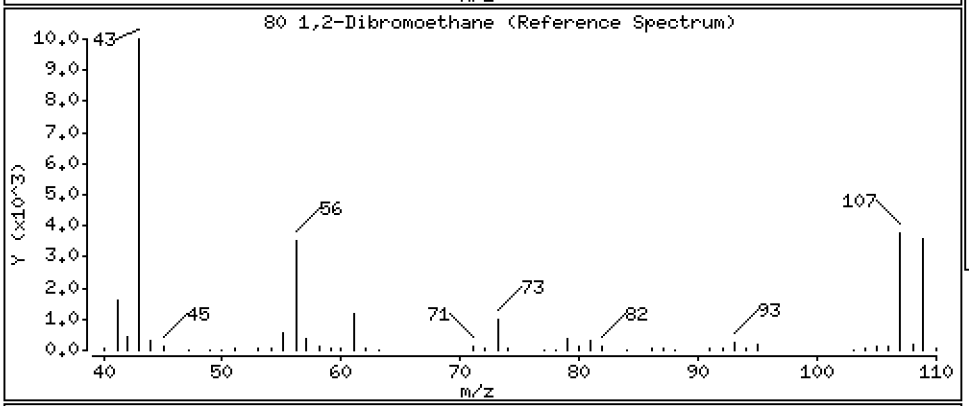
Purge Volume: 5.0 Operator: CJG

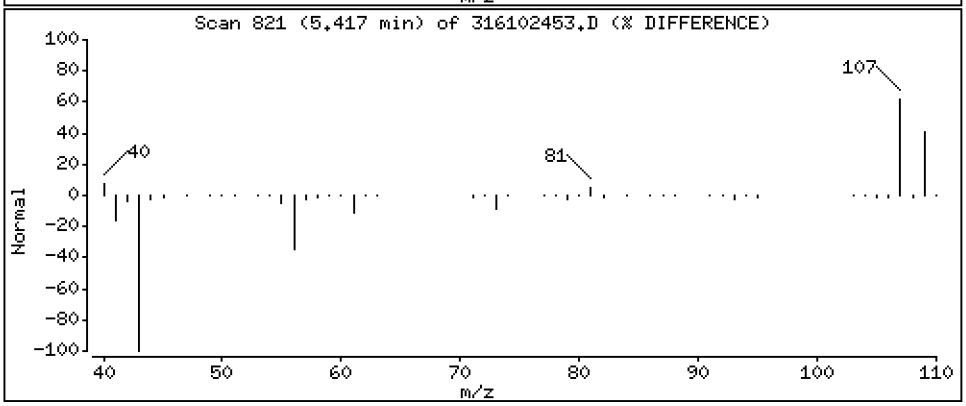
Column phase: DB-VRX Column diameter: 0.25

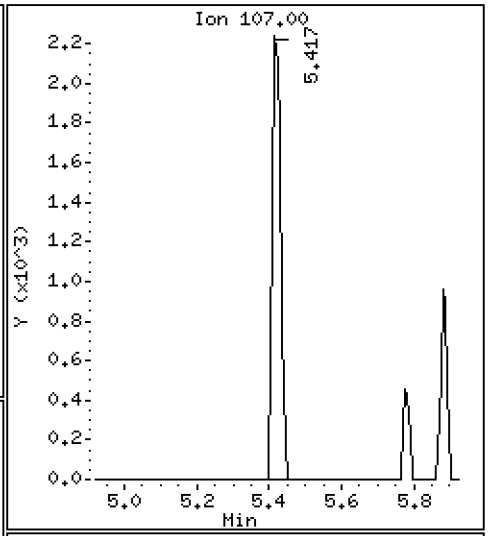
80 1,2-Dibromoethane Concentration: 0.567809 ug/L

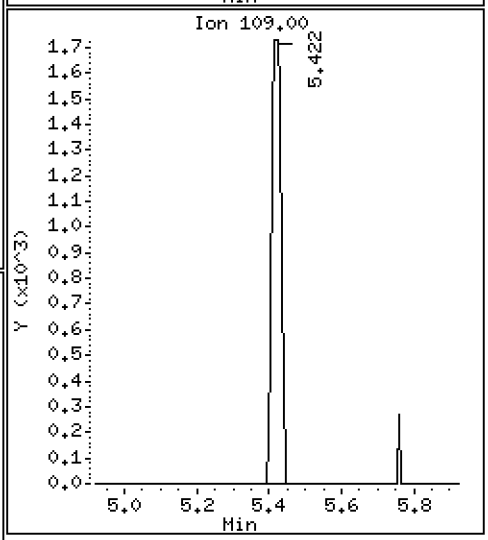












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 85

Date : 24-OCT-2016 23:25

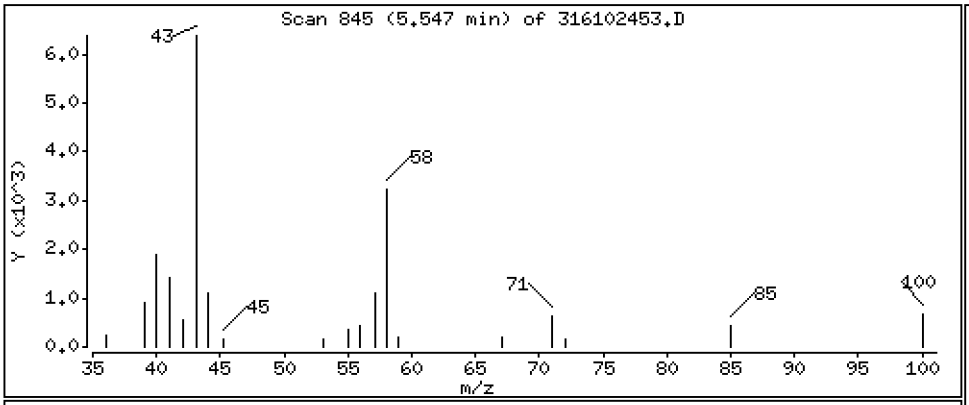
Client ID: Instrument: ms03.i

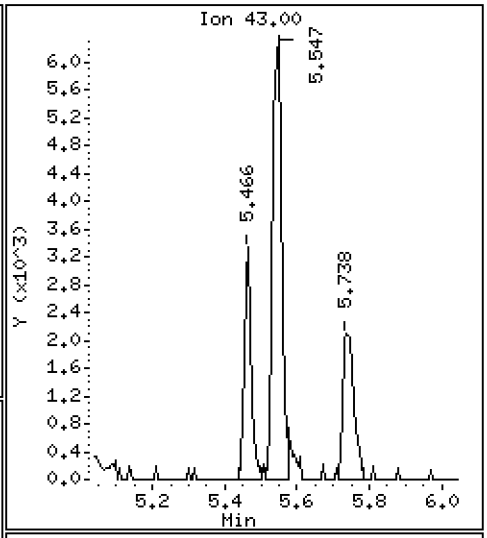
Sample Info: VSTD00.5;;1;1;8;;;

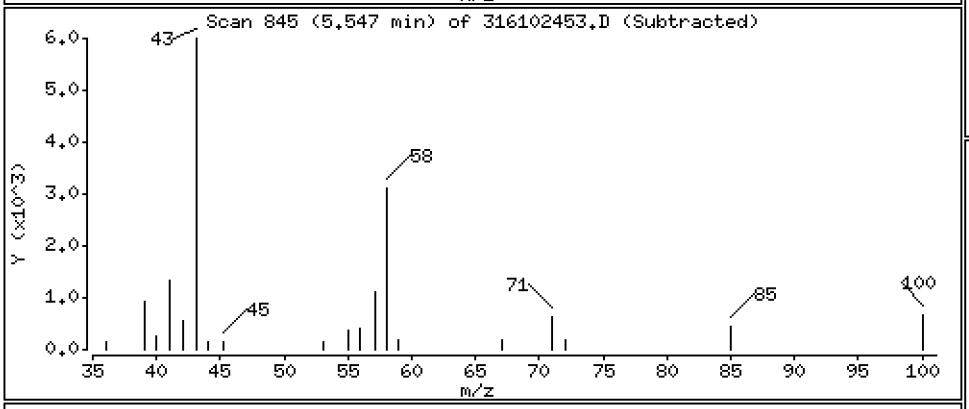
Purge Volume: 5.0 Operator: CJG

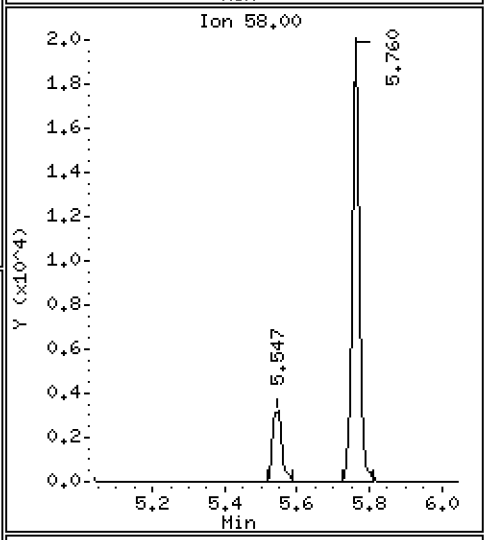
Column phase: DB-VRX Column diameter: 0.25

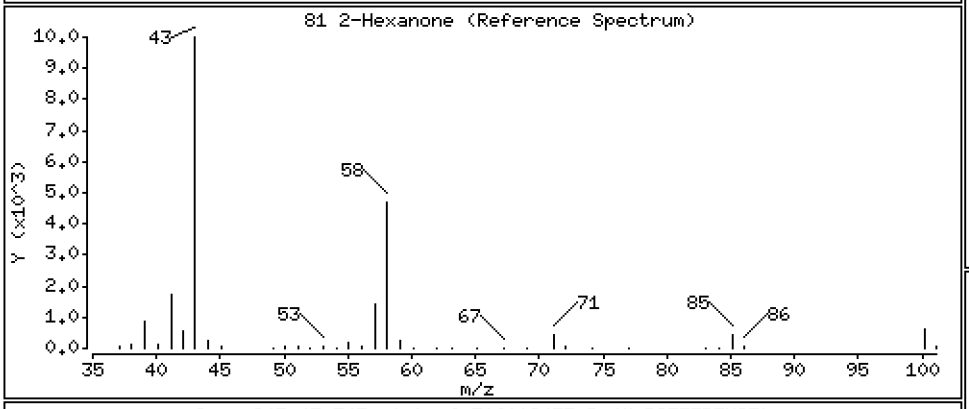
81 2-Hexanone Concentration: 2.13883 ug/L

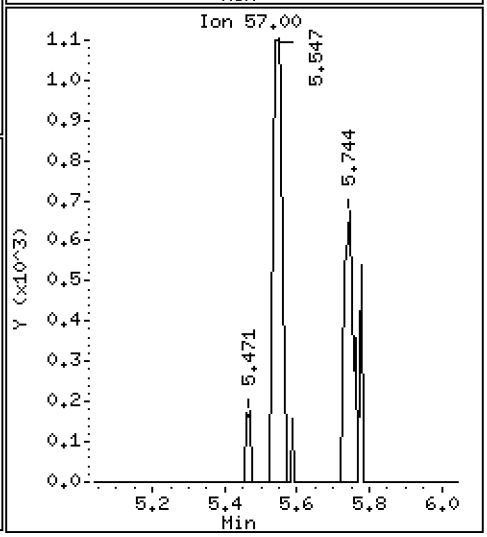


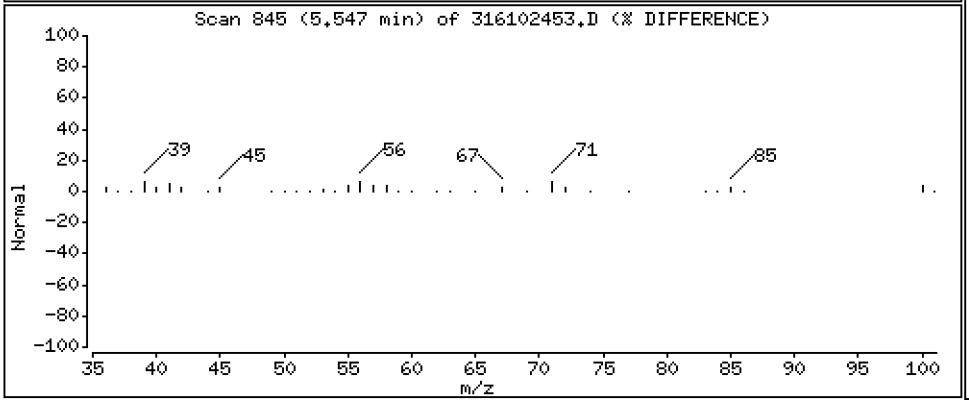












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 86

Date : 24-OCT-2016 23:25

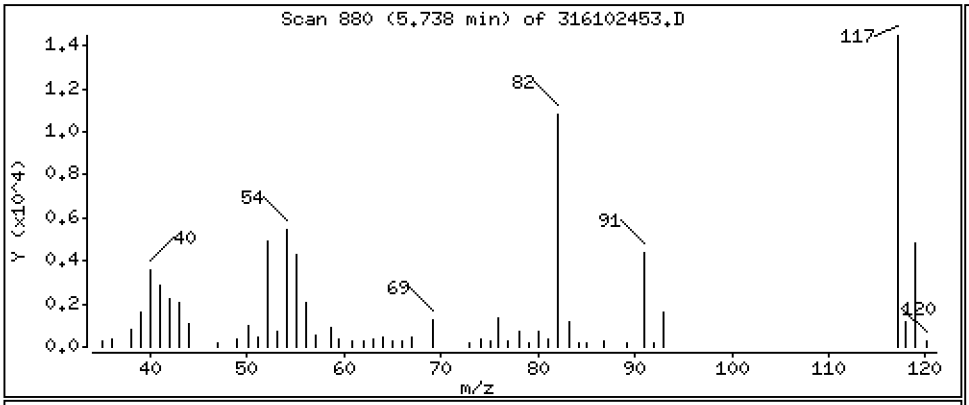
Client ID: Instrument: ms03.i

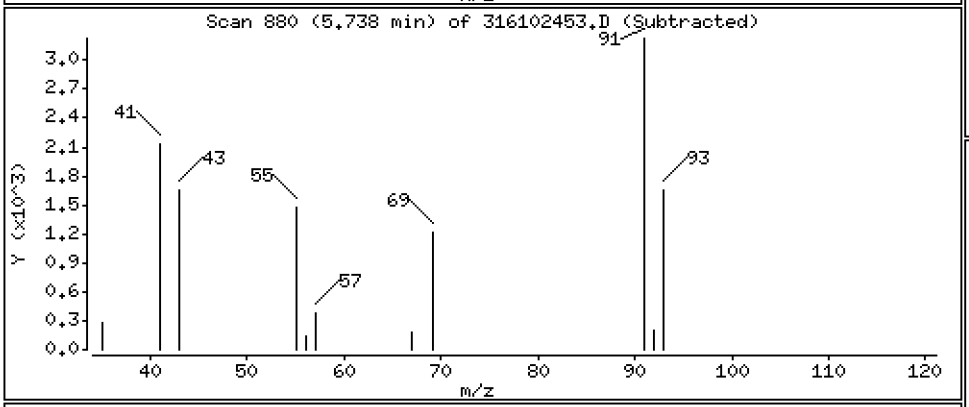
Sample Info: VSTD00.5;;1;1;8;;;

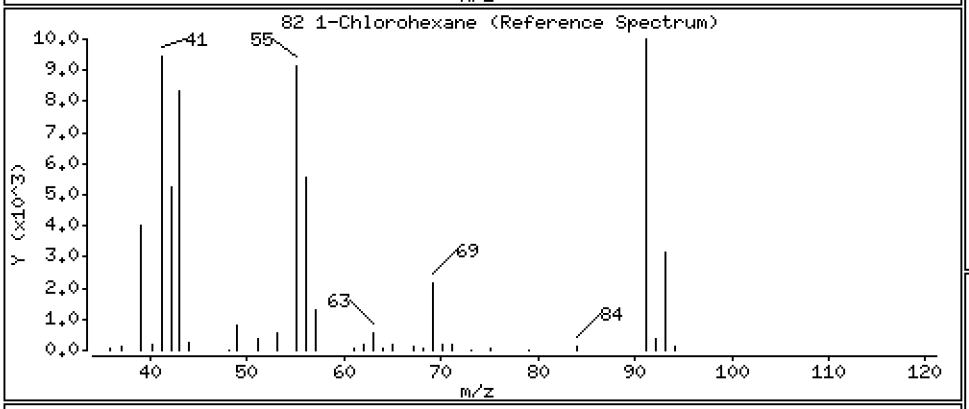
Purge Volume: 5.0 Operator: CJG

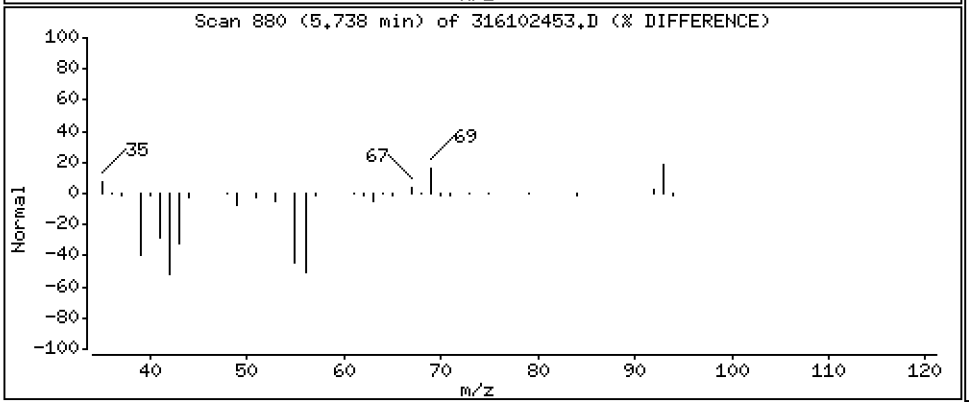
Column phase: DB-VRX Column diameter: 0.25

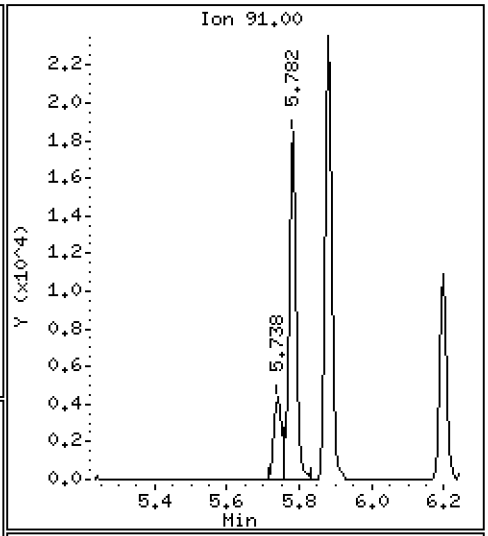
82 1-Chlorohexane Concentration: 0.621446 ug/L

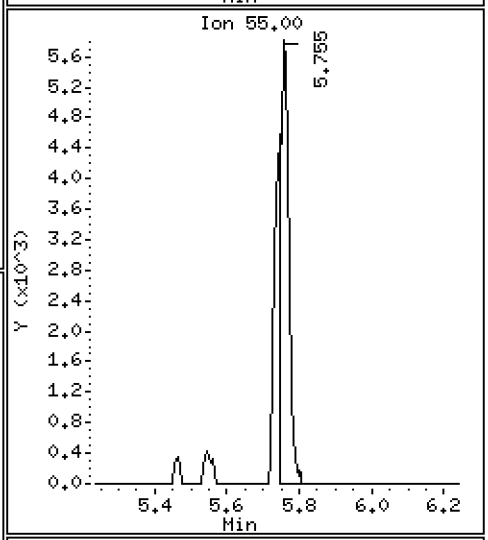


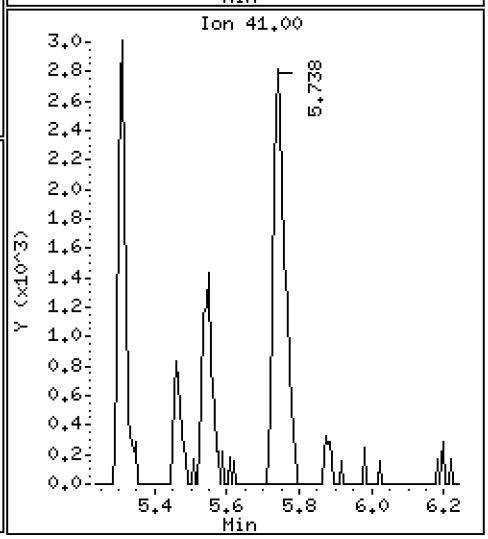












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 87

Date : 24-OCT-2016 23:25

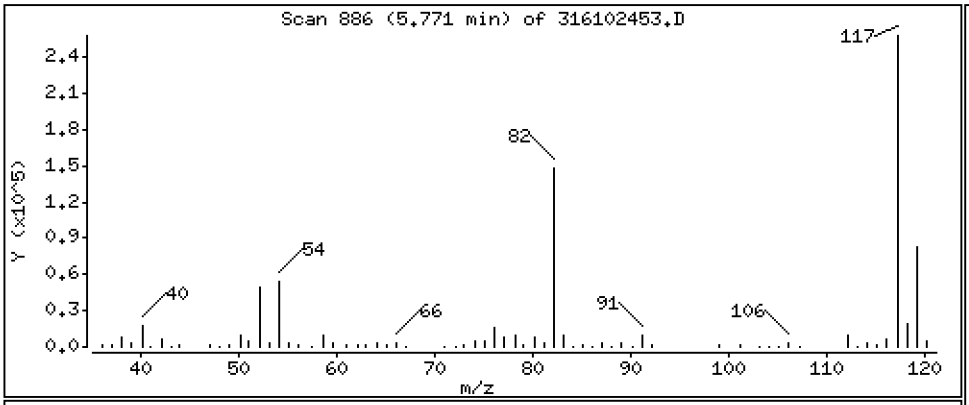
Client ID: Instrument: ms03.i

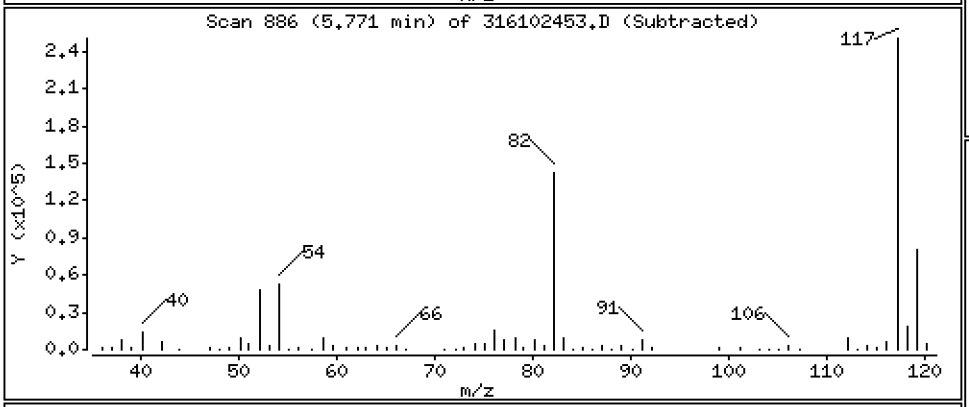
Sample Info: VSTD00.5;;1;1;8;;;

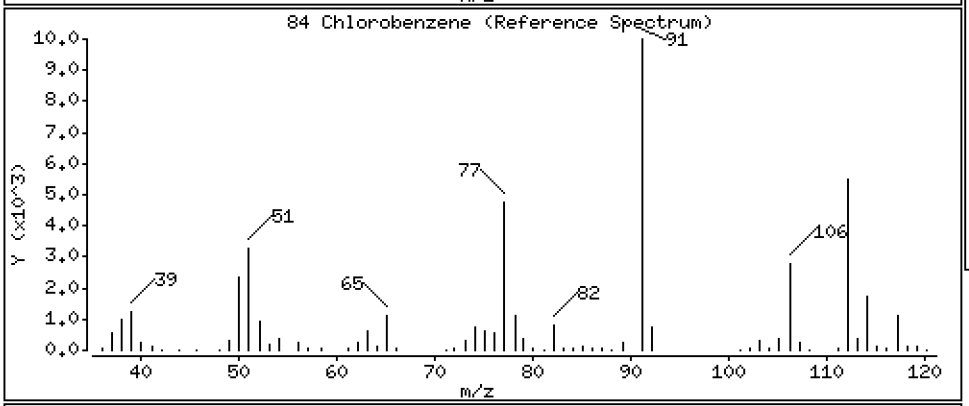
Purge Volume: 5.0 Operator: CJG

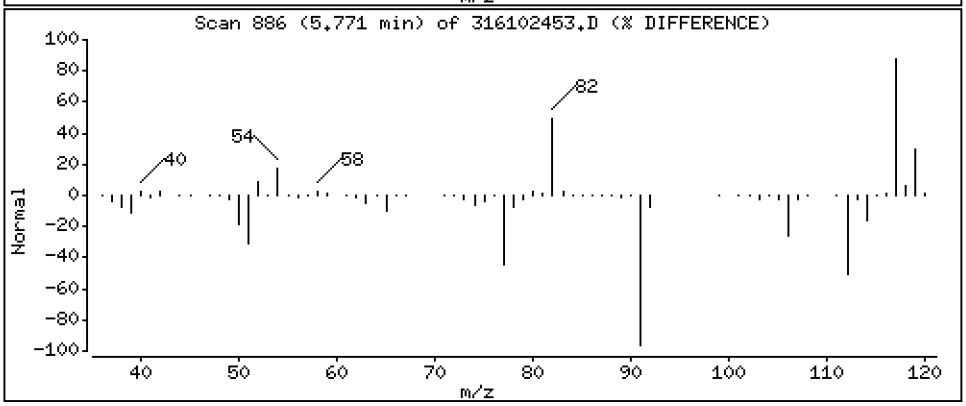
Column phase: DB-VRX Column diameter: 0.25

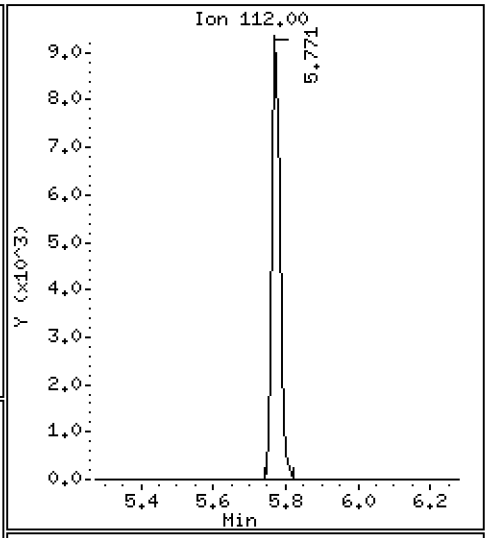
84 Chlorobenzene Concentration: 0.727357 ug/L

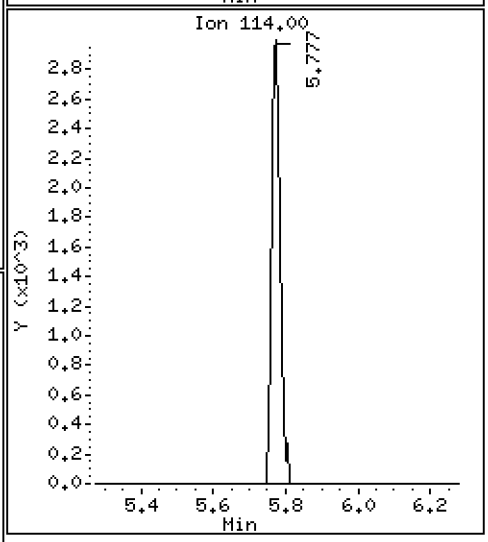












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 88

Date : 24-OCT-2016 23:25

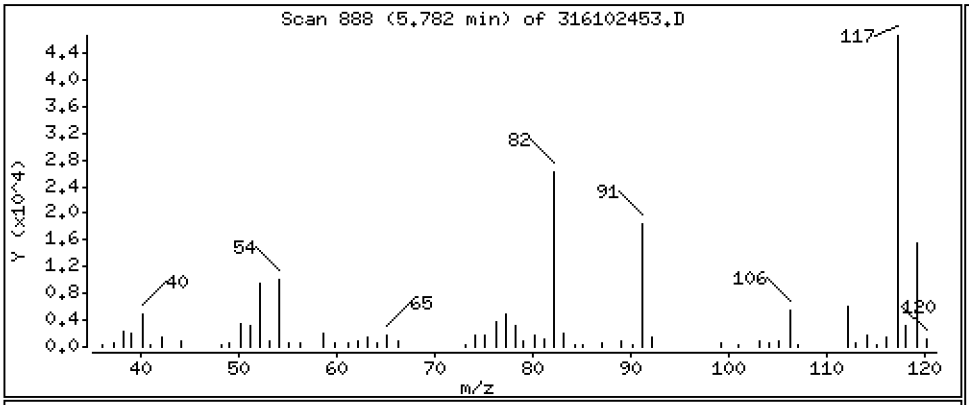
Client ID: Instrument: ms03.i

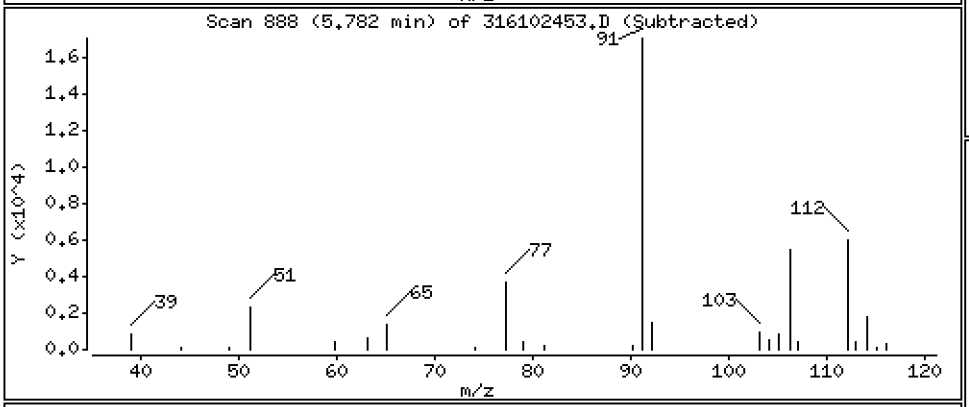
Sample Info: VSTD00.5;;1;1;8;;;

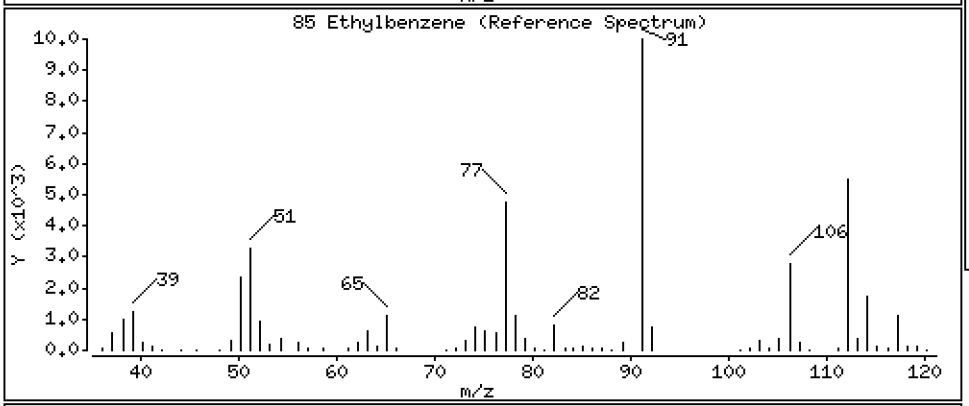
Purge Volume: 5.0 Operator: CJG

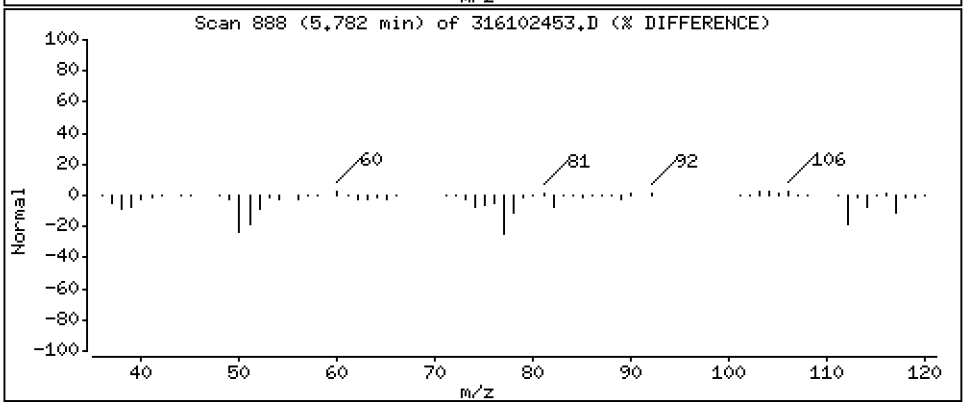
Column phase: DB-VRX Column diameter: 0.25

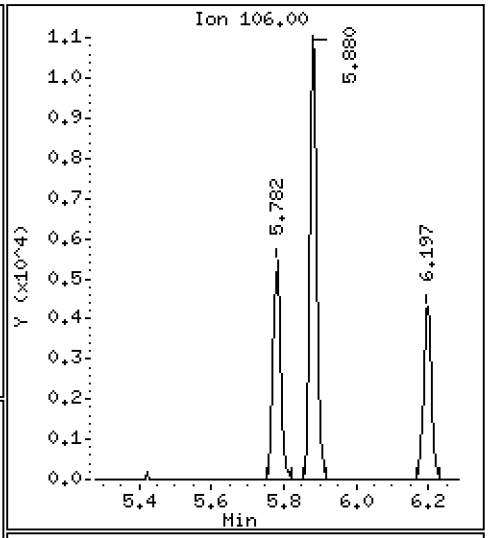
85 Ethylbenzene Concentration: 0.694566 ug/L

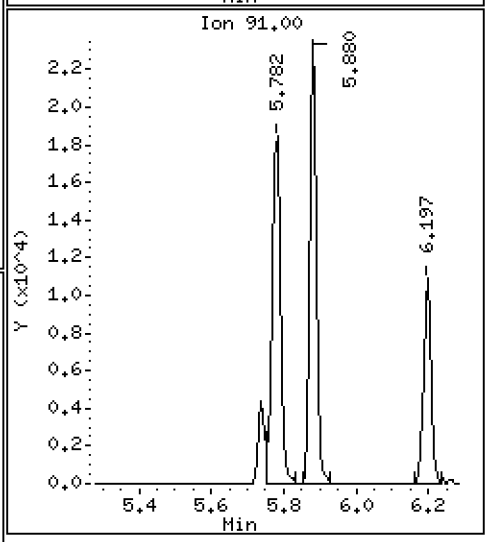












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 89

Date : 24-OCT-2016 23:25

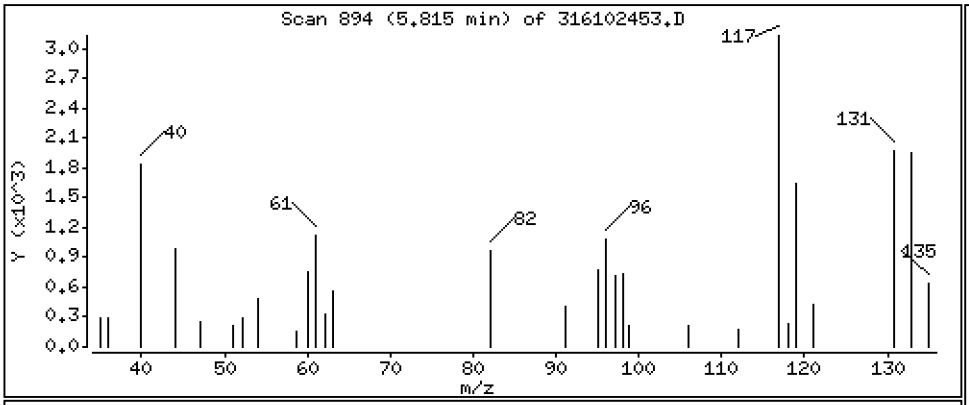
Client ID: Instrument: ms03.i

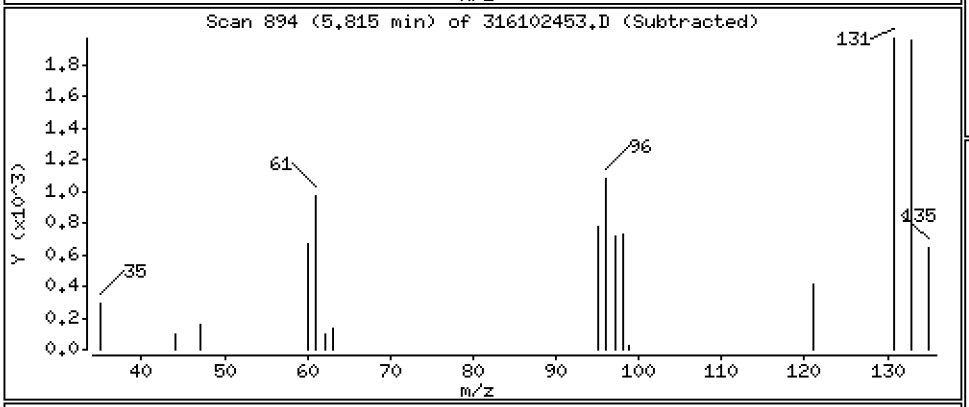
Sample Info: VSTD00.5;;1;1;8;;;

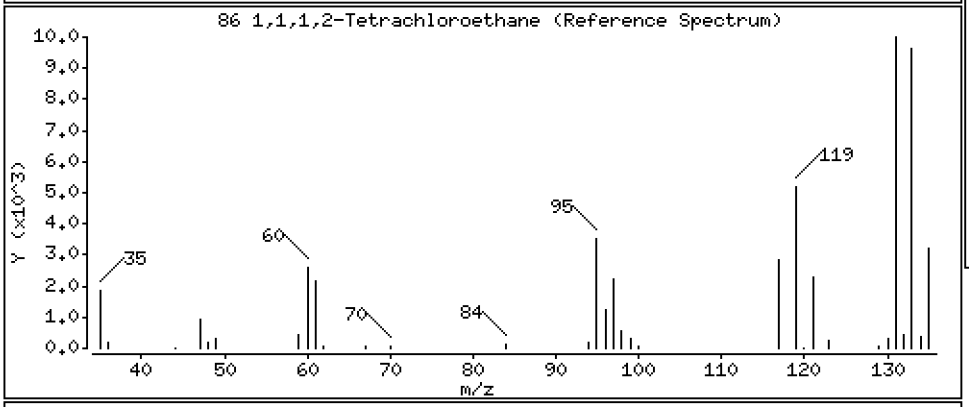
Purge Volume: 5.0 Operator: CJG

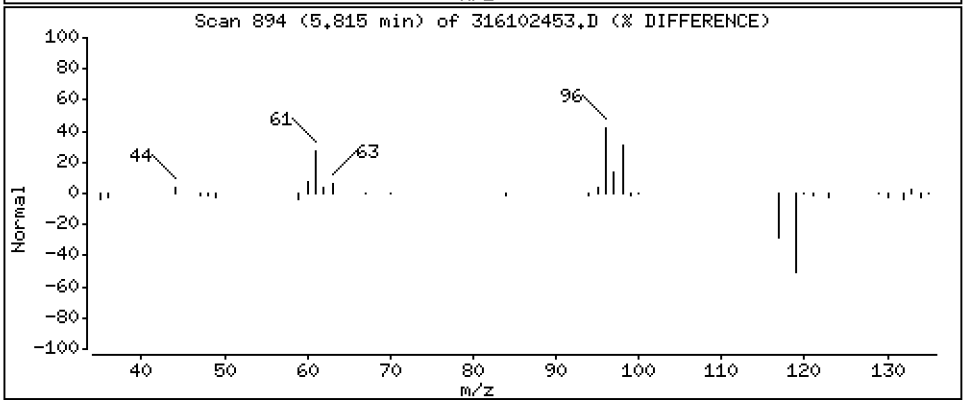
Column phase: DB-VRX Column diameter: 0.25

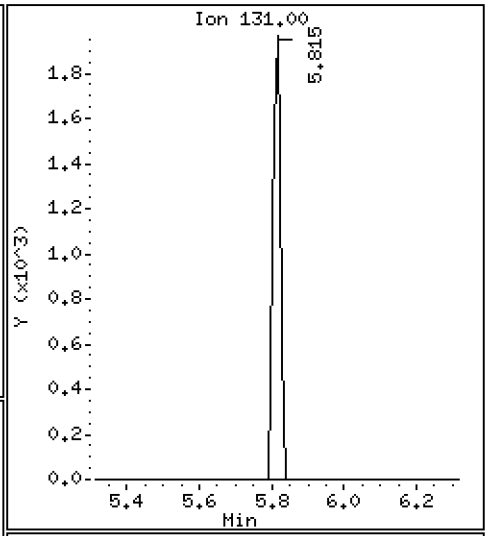
86 1,1,1,2-Tetrachloroethane Concentration: 0.458082 ug/L

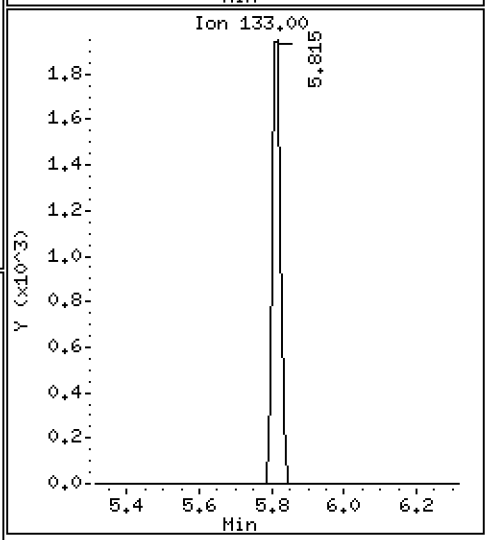












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 90

Date : 24-OCT-2016 23:25

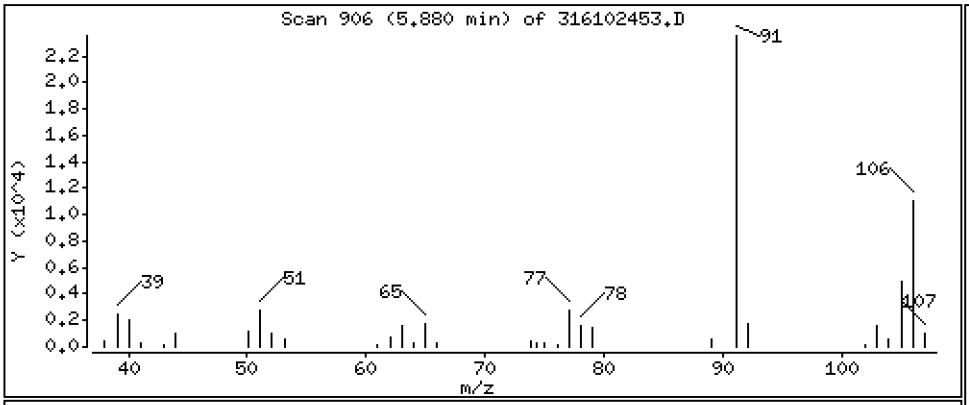
Client ID: Instrument: ms03.i

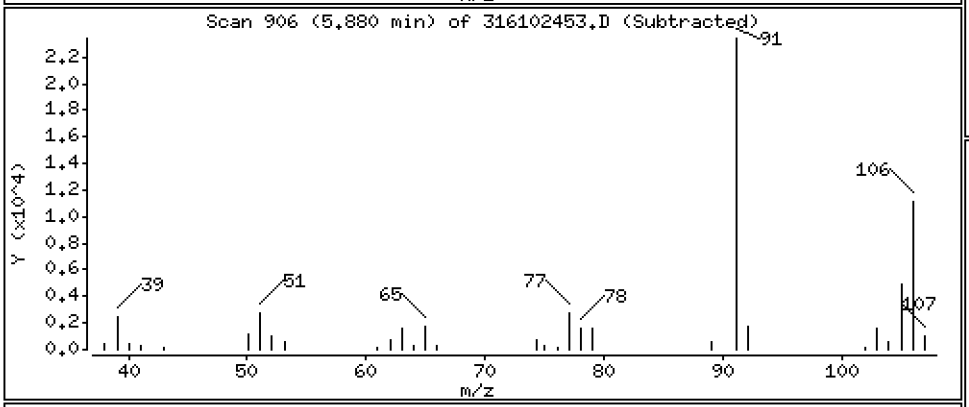
Sample Info: VSTD00.5;;1;1;8;;;

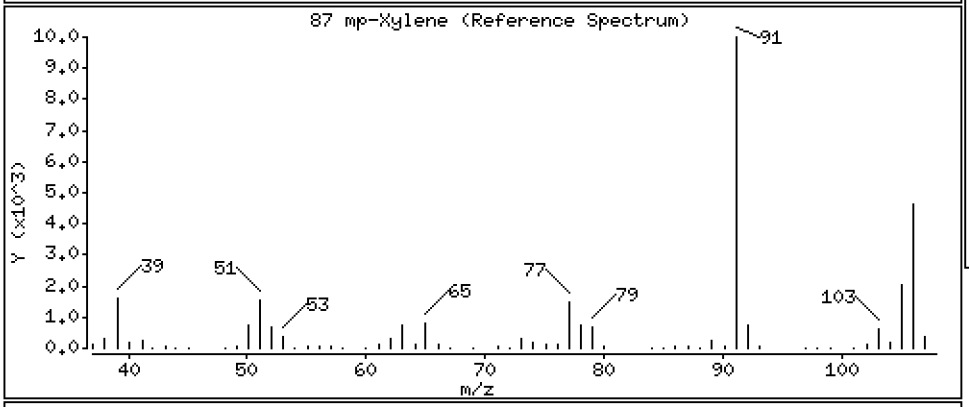
Purge Volume: 5.0 Operator: CJG

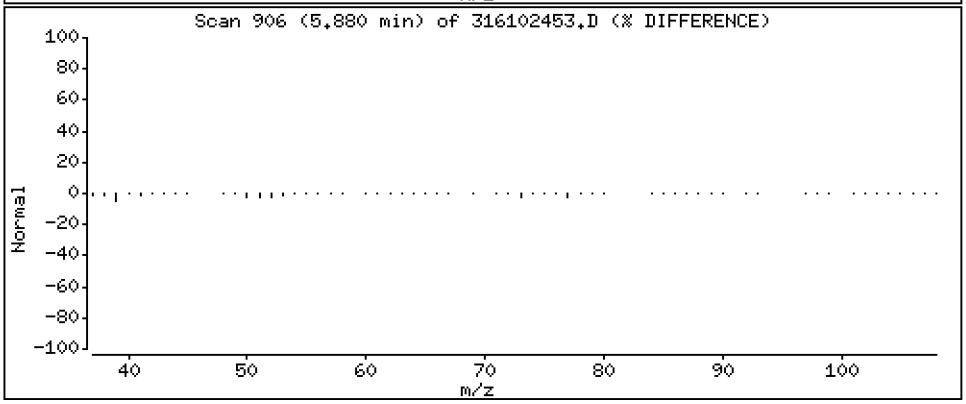
Column phase: DB-VRX Column diameter: 0.25

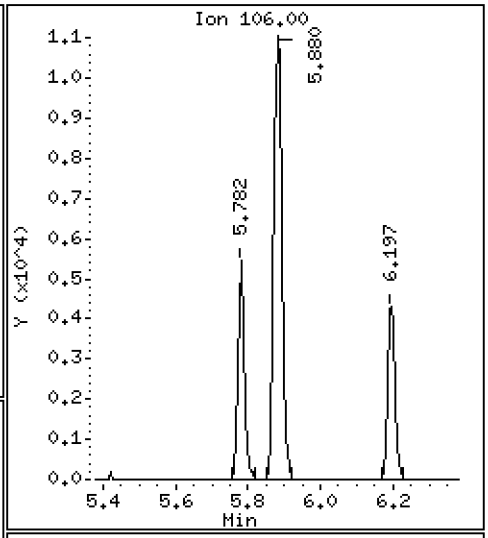
87 mp-Xylene Concentration: 1.27382 ug/L

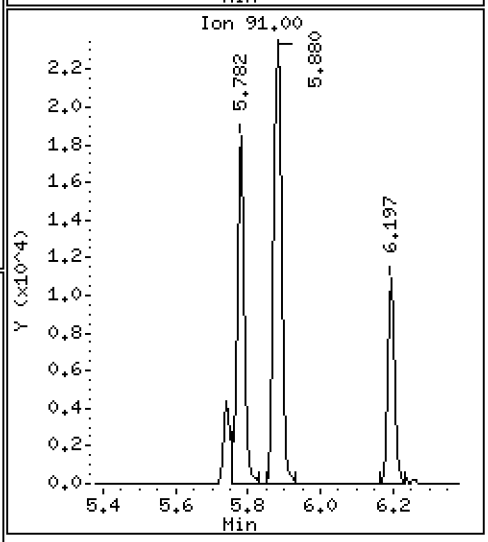












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 91

Date : 24-OCT-2016 23:25

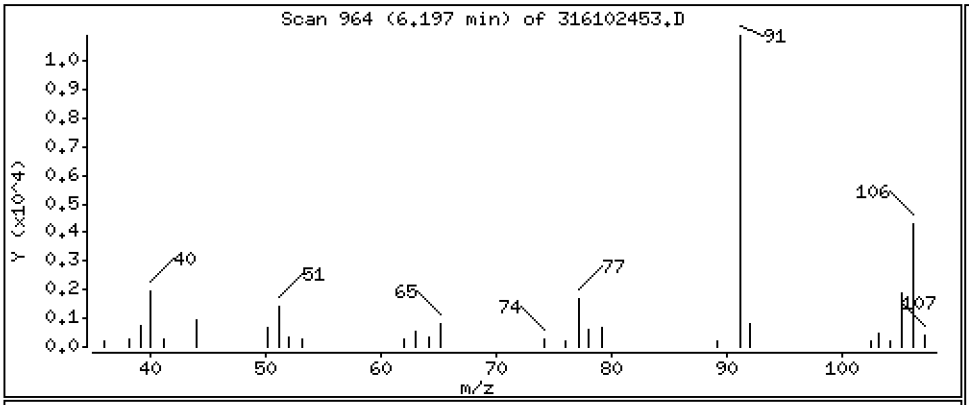
Client ID: Instrument: ms03.i

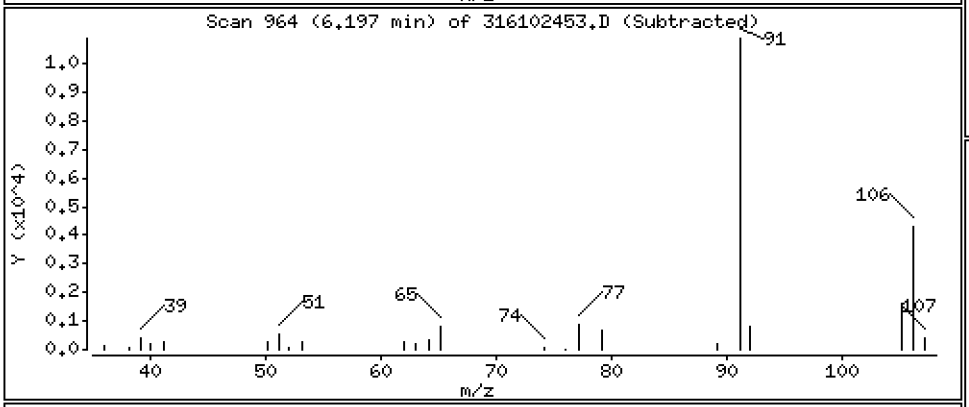
Sample Info: VSTD00.5;;1;1;8;;;

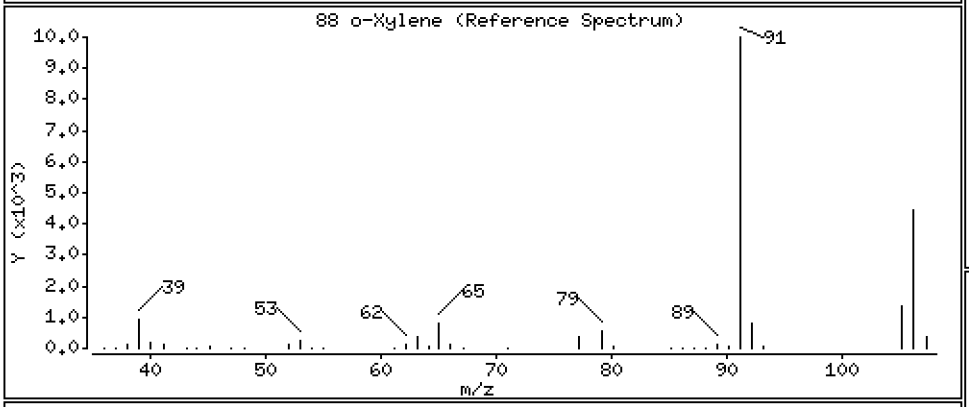
Purge Volume: 5.0 Operator: CJG

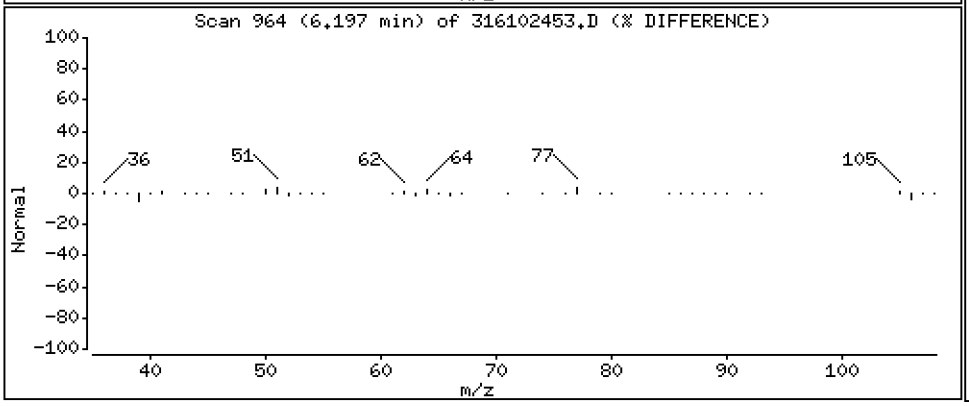
Column phase: DB-VRX Column diameter: 0.25

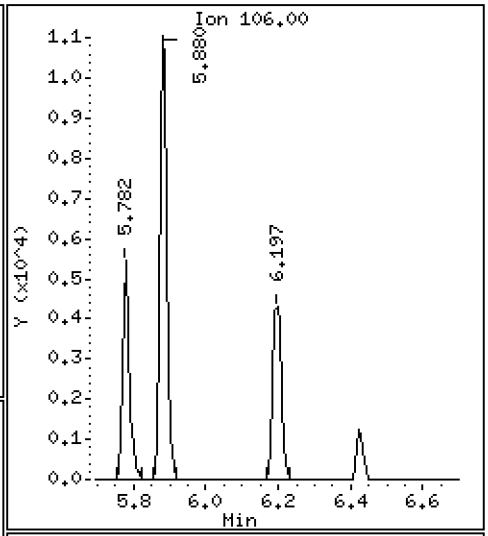
88 o-Xylene Concentration: 0.559136 ug/L

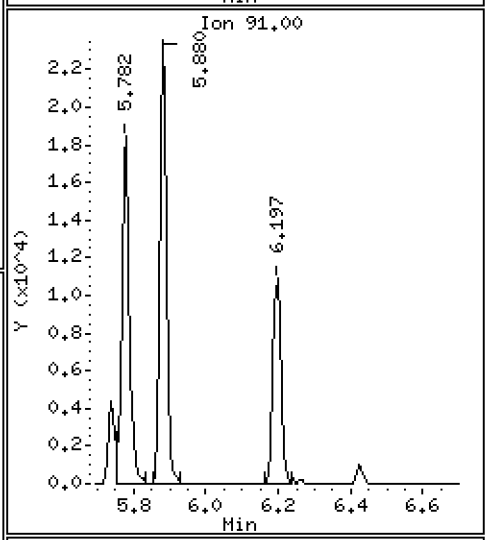


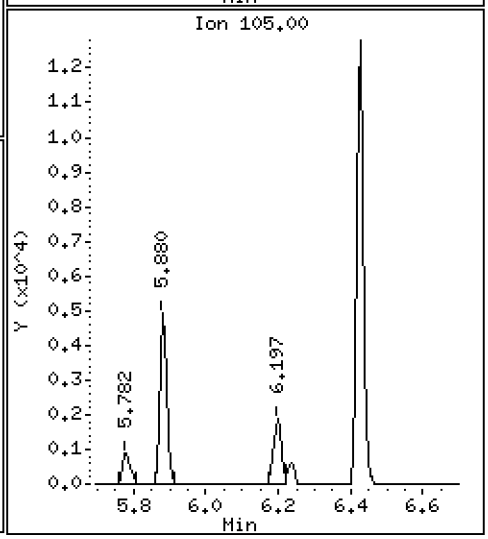












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 92

Date : 24-OCT-2016 23:25

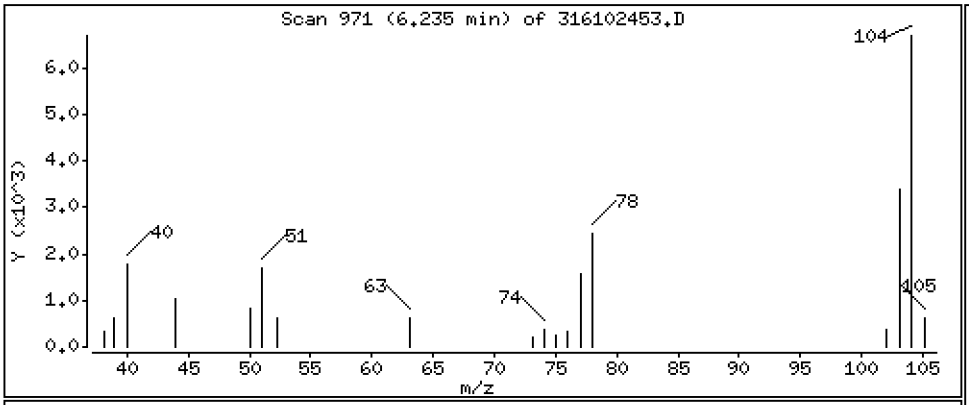
Client ID: Instrument: ms03.i

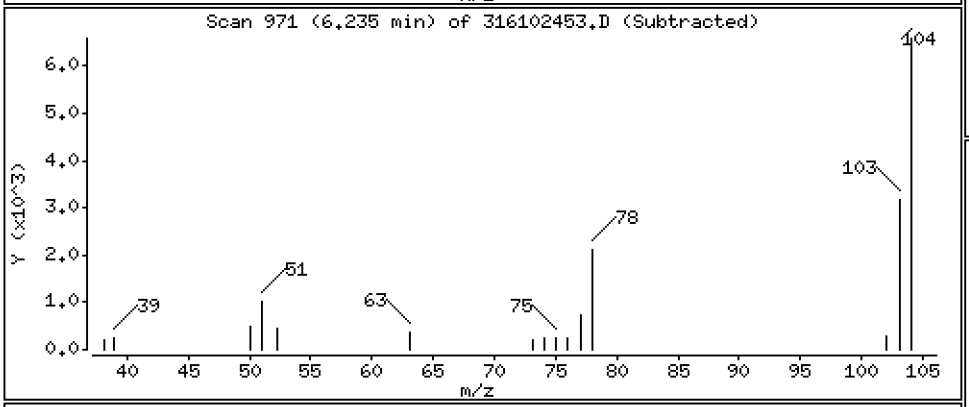
Sample Info: VSTD00.5;;1;1;8;;;

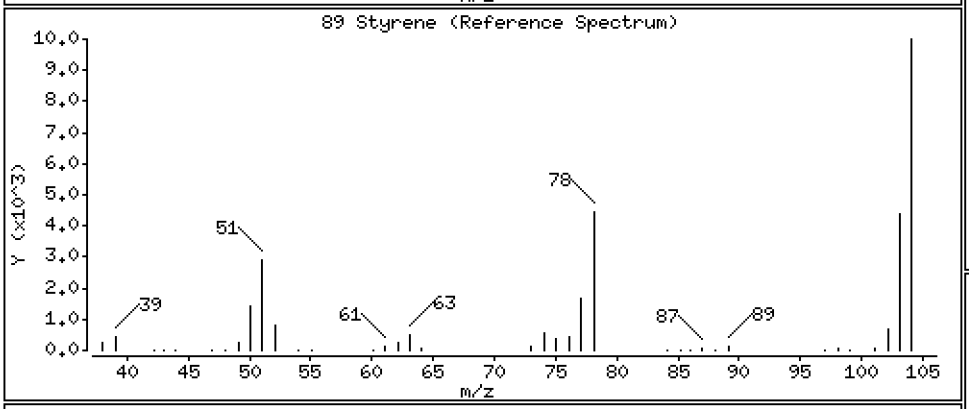
Purge Volume: 5.0 Operator: CJG

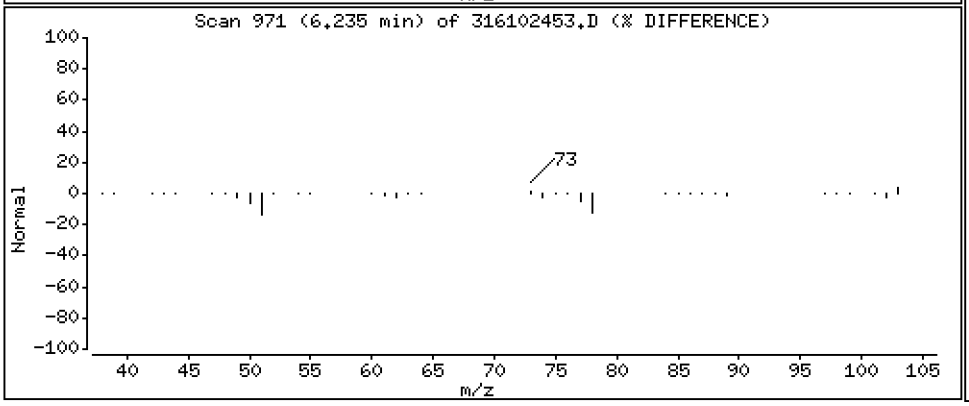
Column phase: DB-VRX Column diameter: 0.25

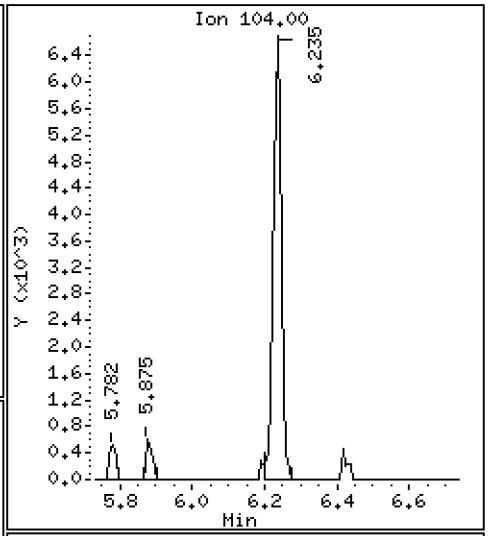
89 Styrene Concentration: 0.514581 ug/L

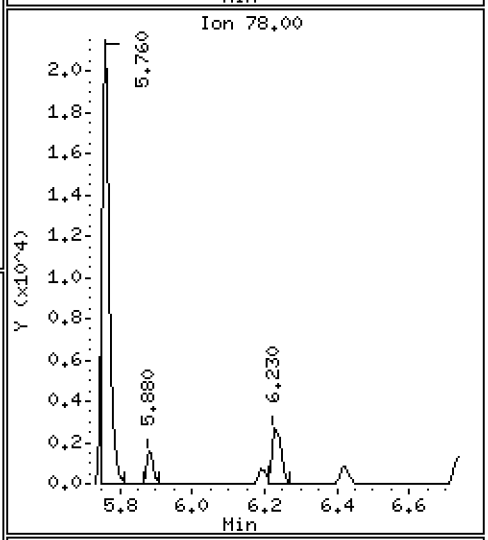


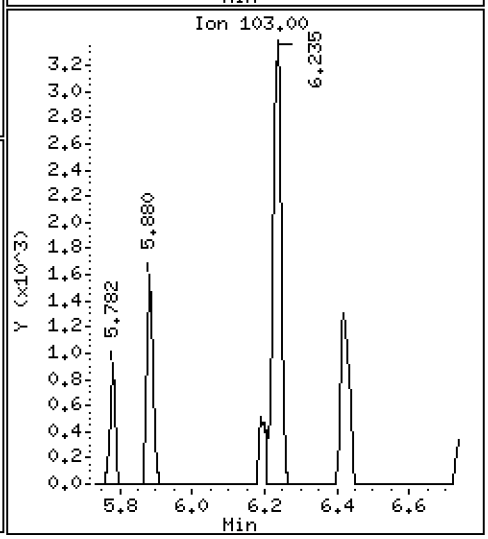












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 93

Date : 24-OCT-2016 23:25

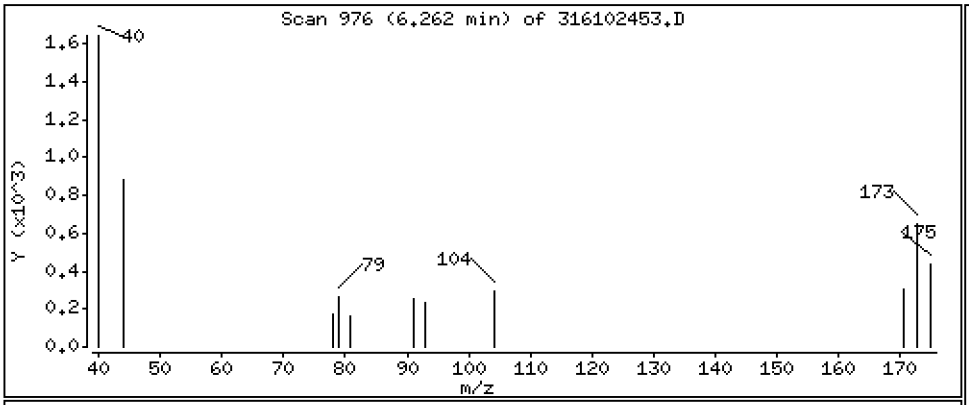
Client ID: Instrument: ms03.i

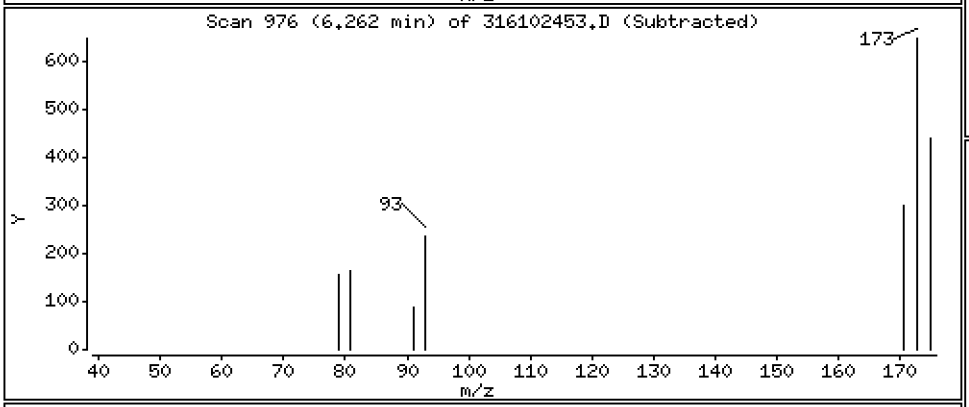
Sample Info: VSTD00.5;;1;1;8;;;

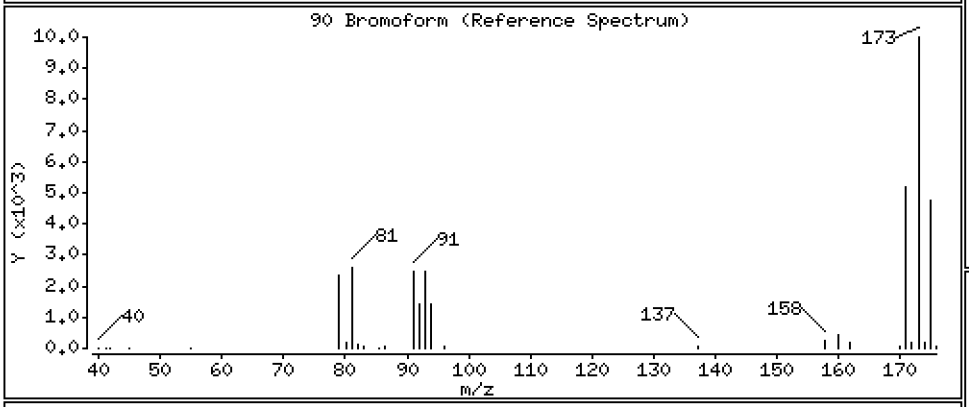
Purge Volume: 5.0 Operator: CJG

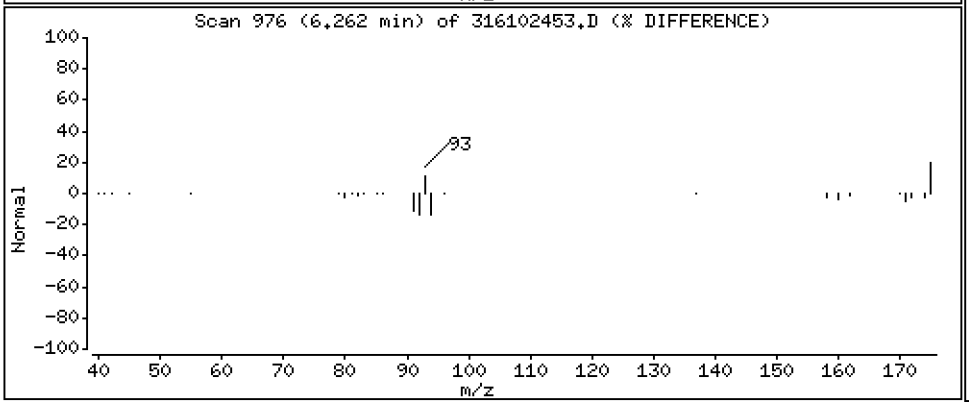
Column phase: DB-VRX Column diameter: 0.25

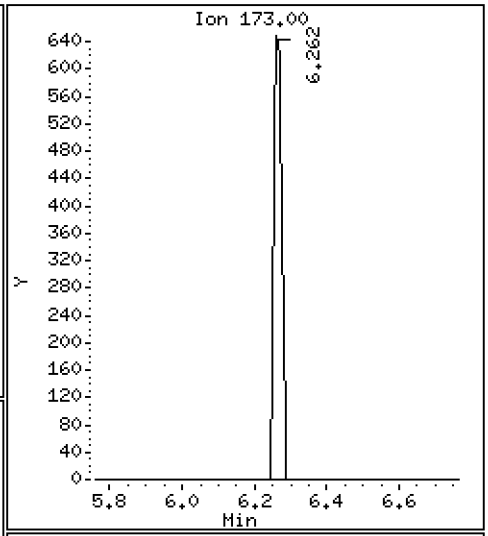
90 Bromoform Concentration: 0.395703 ug/L

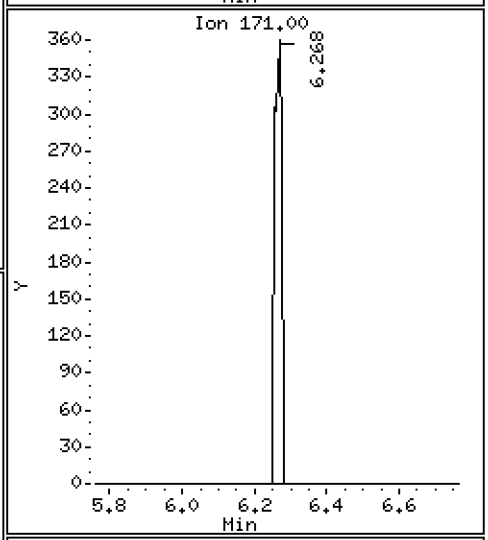


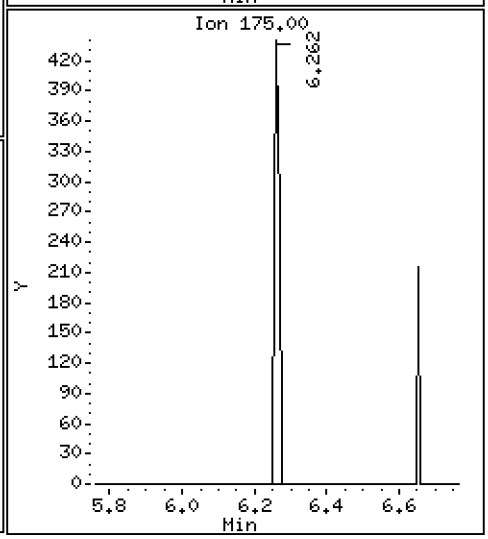












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 94

Date : 24-OCT-2016 23:25

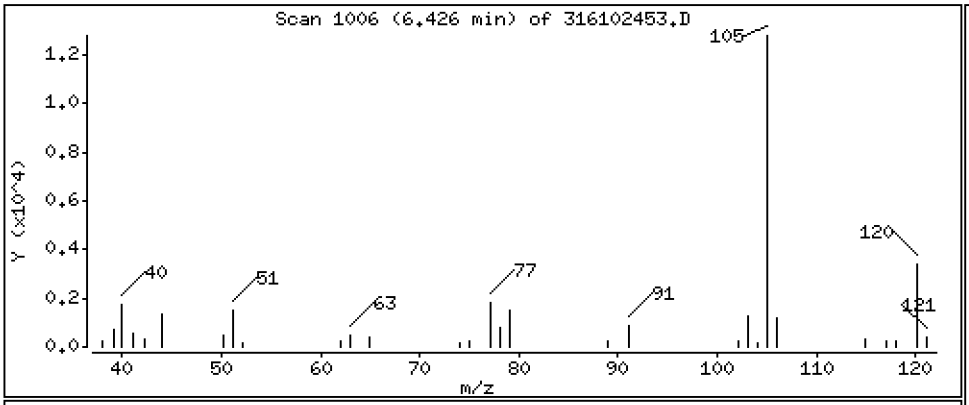
Client ID: Instrument: ms03.i

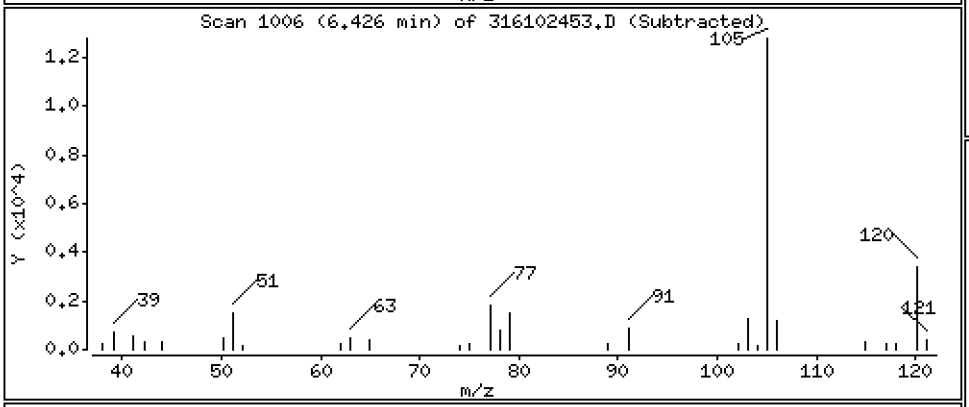
Sample Info: VSTD00.5;;1;1;8;;;

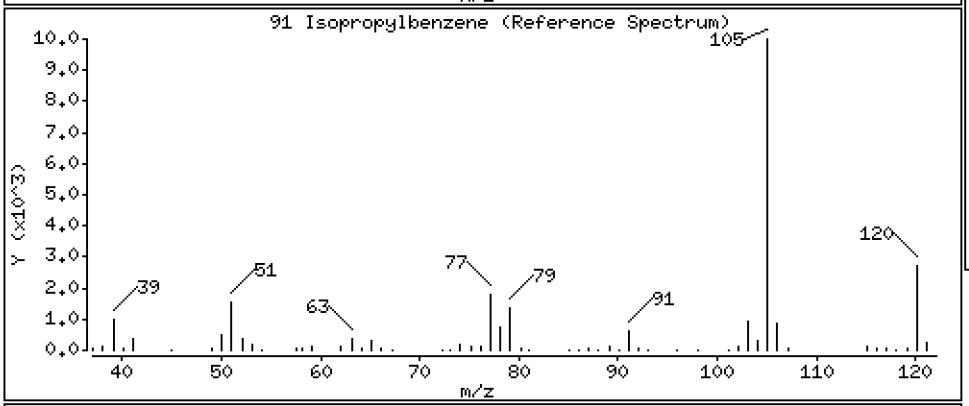
Purge Volume: 5.0 Operator: CJG

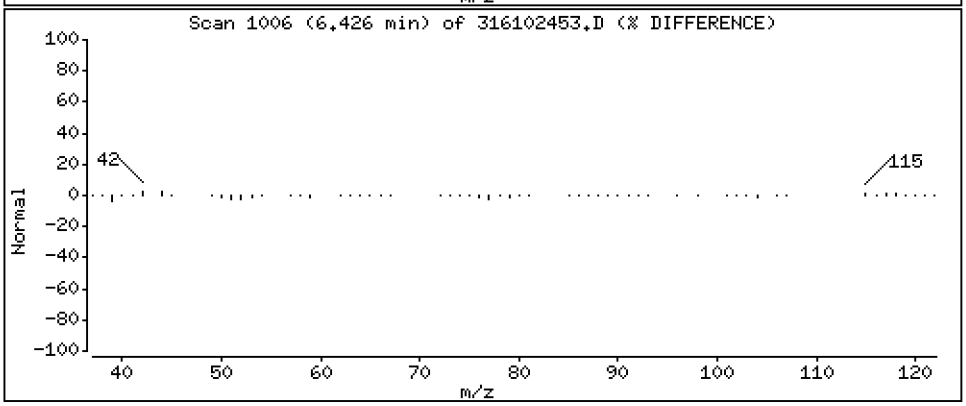
Column phase: DB-VRX Column diameter: 0.25

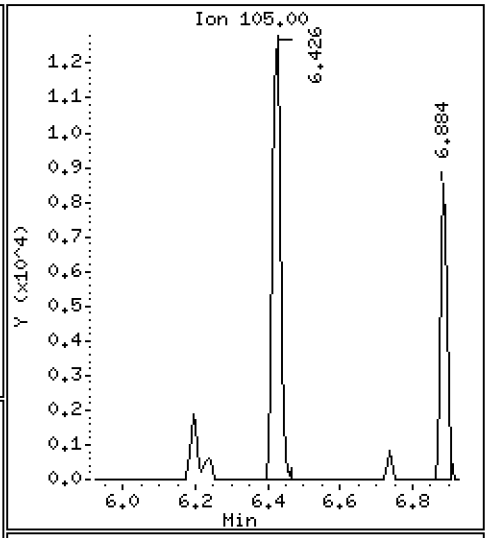
91 Isopropylbenzene Concentration: 0.633423 ug/L

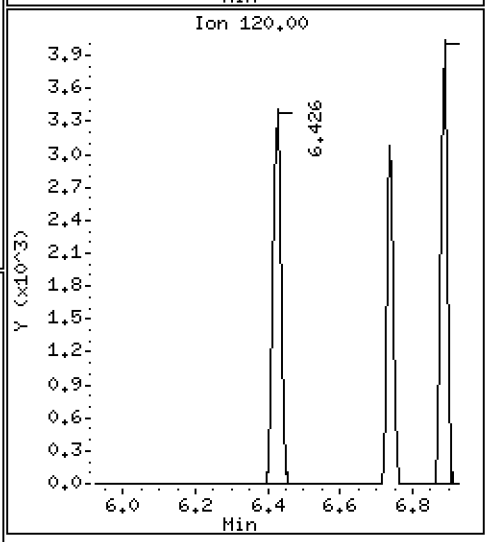












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 95

Date : 24-OCT-2016 23:25

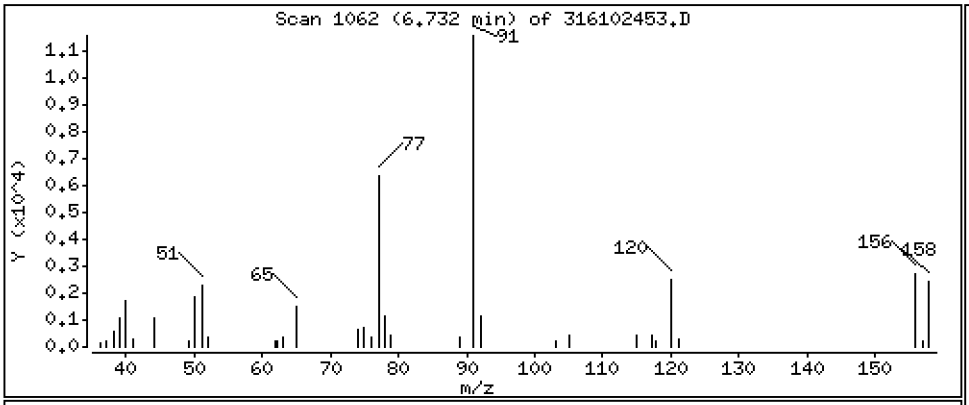
Client ID: Instrument: ms03.i

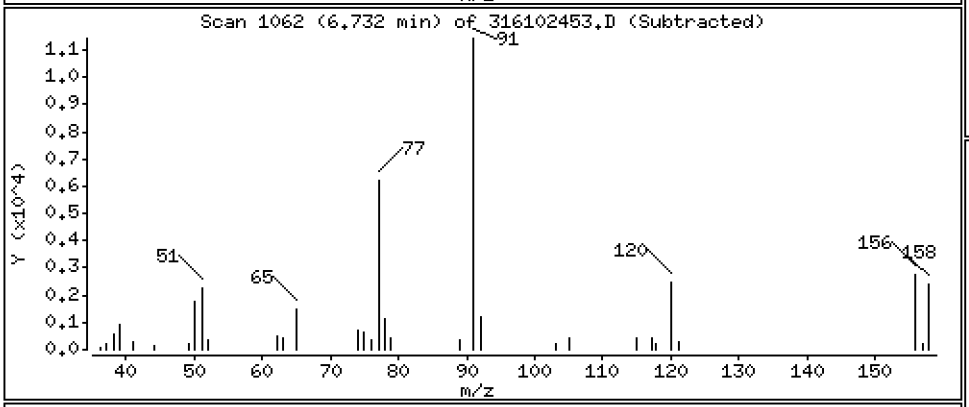
Sample Info: VSTD00.5;;1;1;8;;;

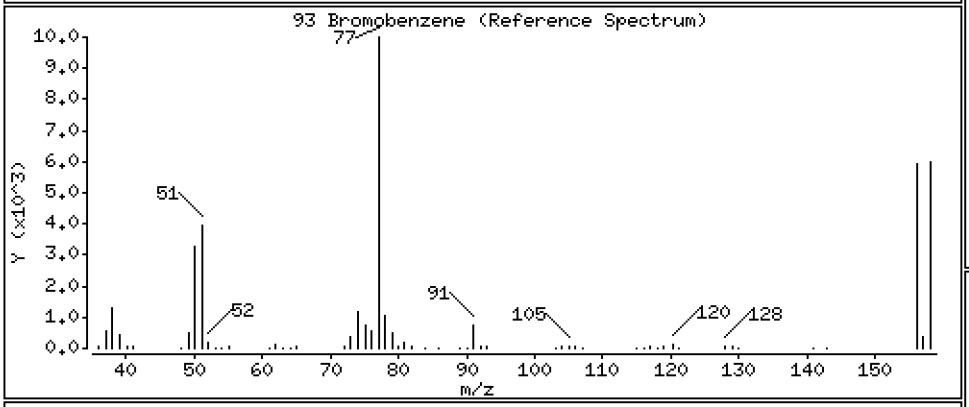
Purge Volume: 5.0 Operator: CJG

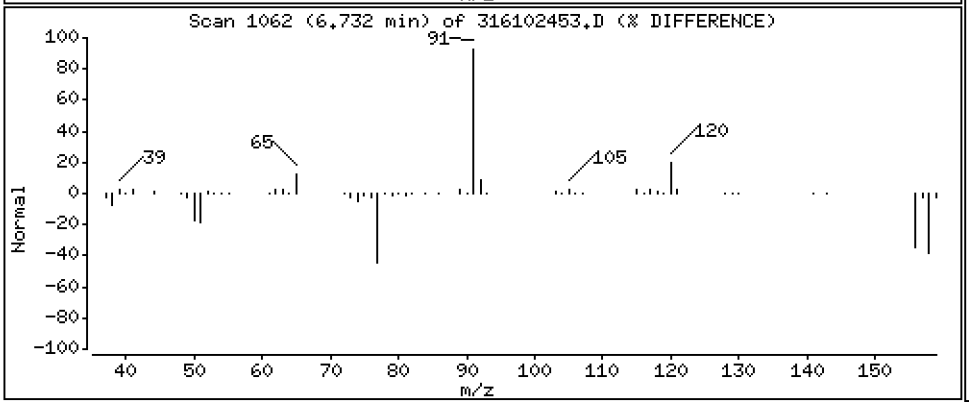
Column phase: DB-VRX Column diameter: 0.25

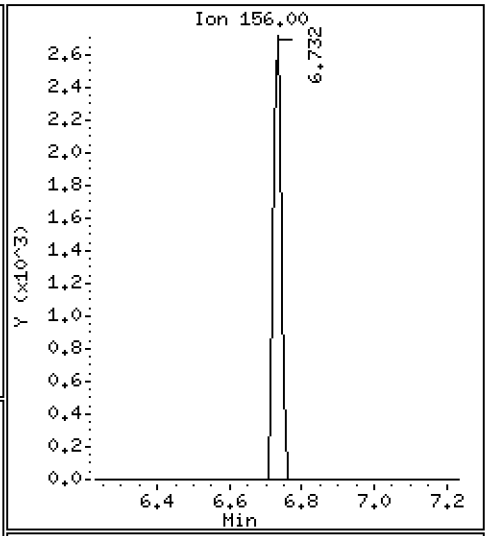
93 Bromobenzene Concentration: 0.672212 ug/L

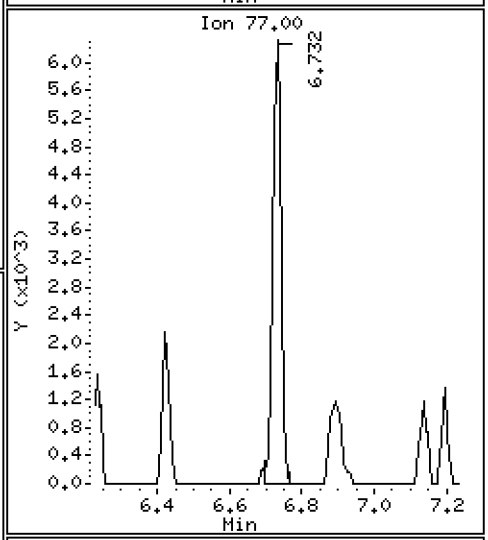


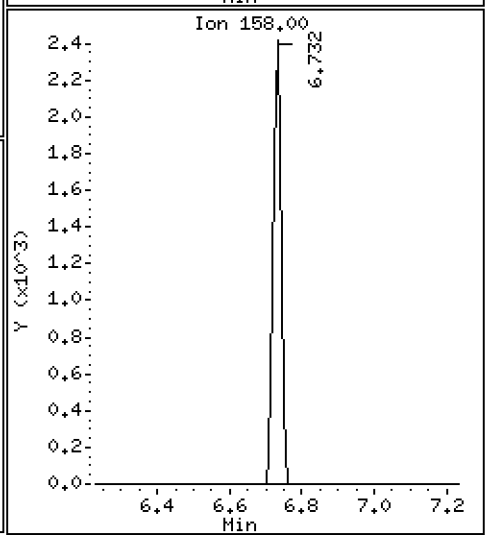












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 96

Date : 24-OCT-2016 23:25

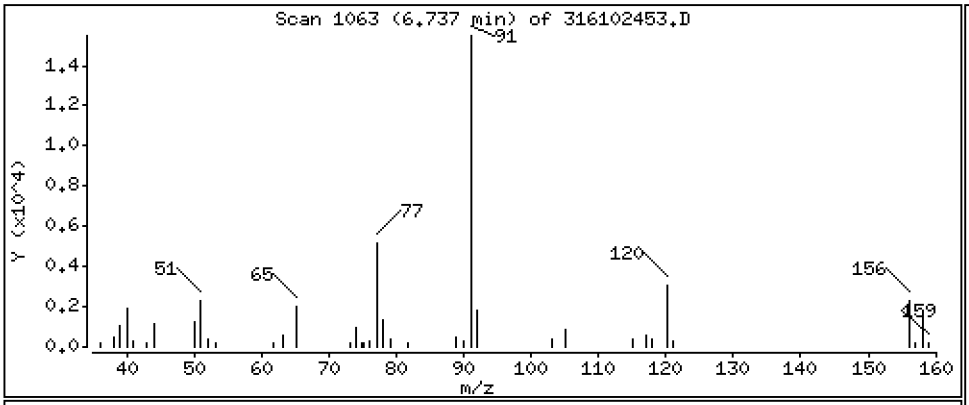
Client ID: Instrument: ms03.i

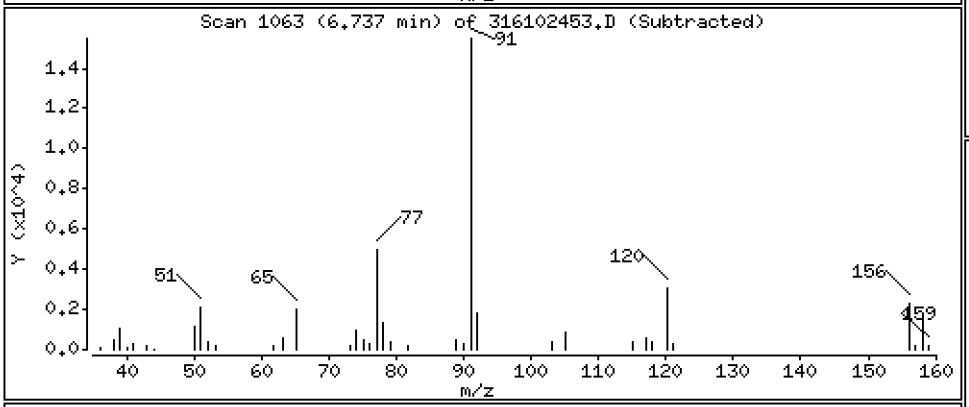
Sample Info: VSTD00.5;;1;1;8;;;

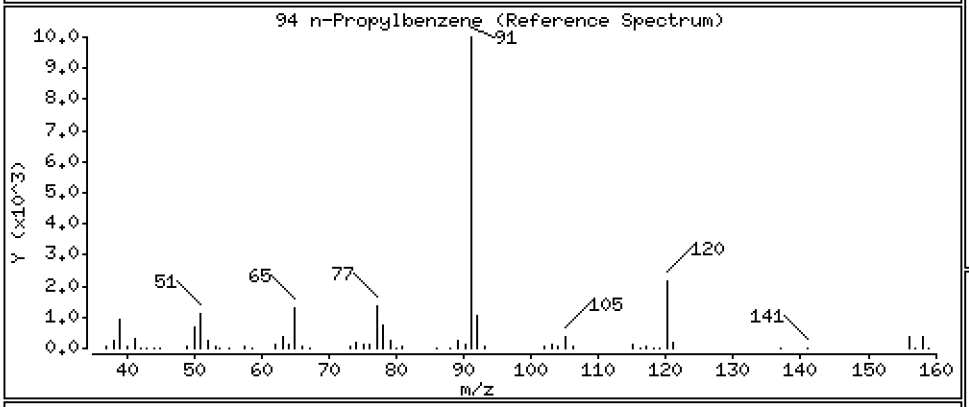
Purge Volume: 5.0 Operator: CJG

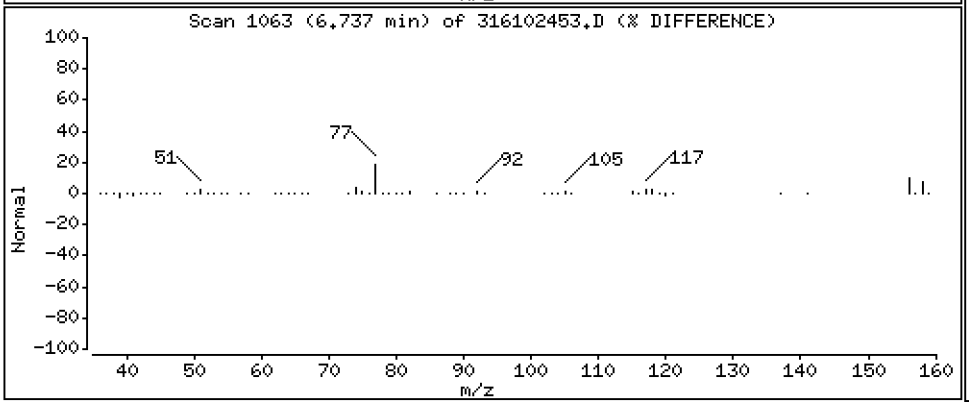
Column phase: DB-VRX Column diameter: 0.25

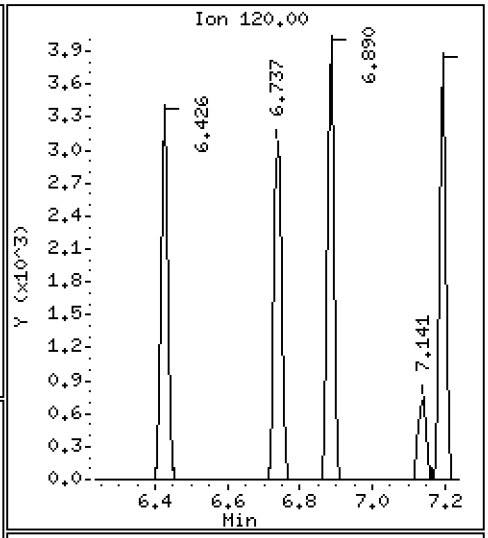
94 n-Propylbenzene Concentration: 0.578296 ug/L

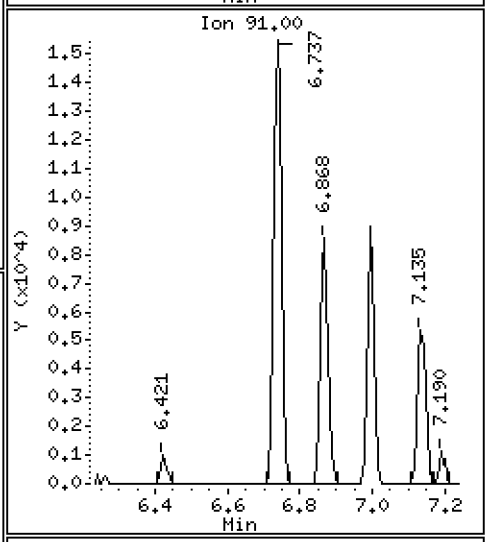


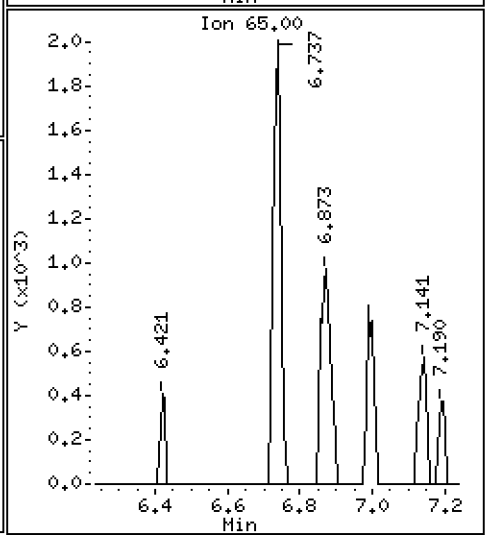












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 97

Date : 24-OCT-2016 23:25

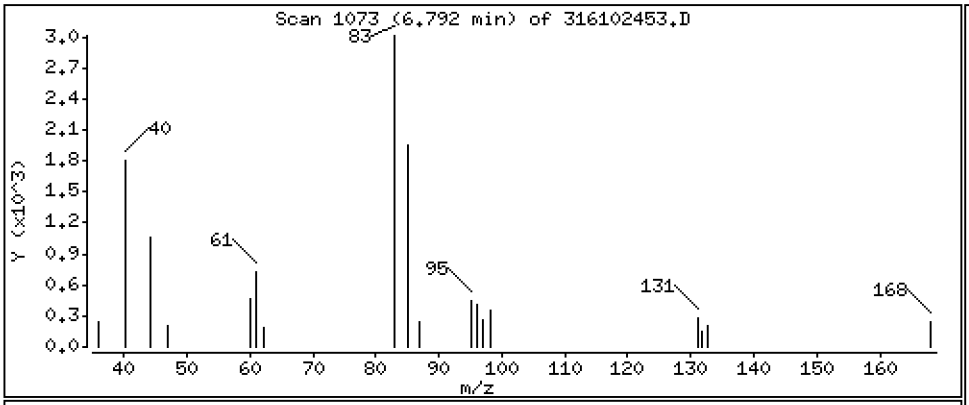
Client ID: Instrument: ms03.i

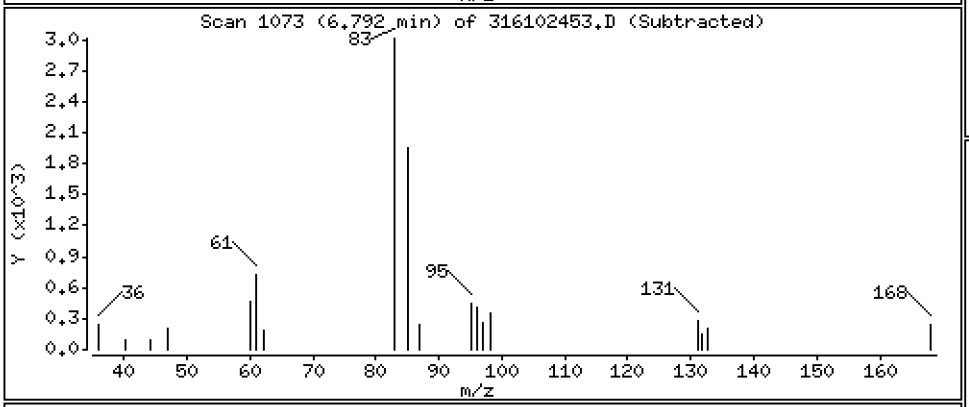
Sample Info: VSTD00.5;;1;1;8;;;

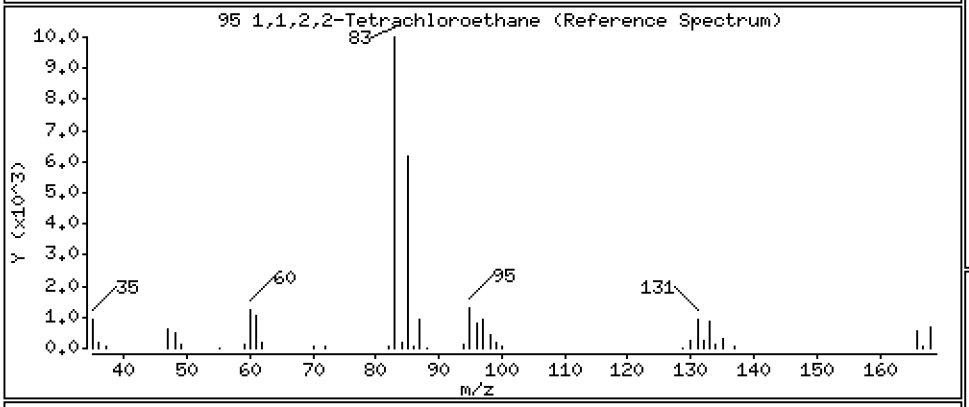
Purge Volume: 5.0 Operator: CJG

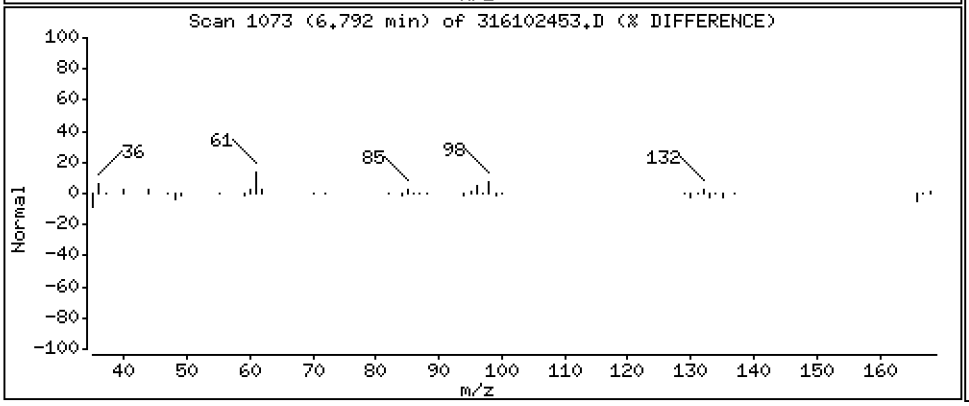
Column phase: DB-VRX Column diameter: 0.25

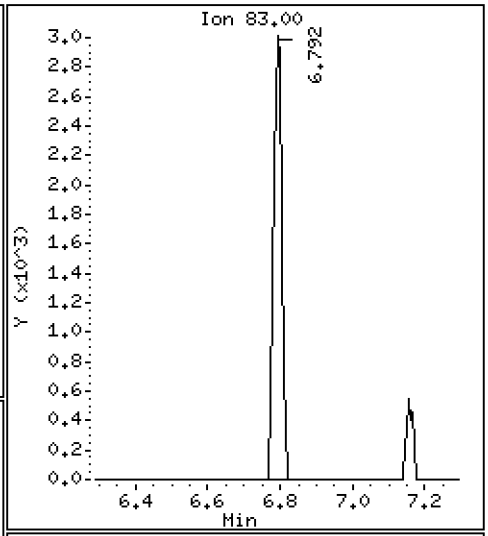
95 1,1,2,2-Tetrachloroethane Concentration: 0.645241 ug/L

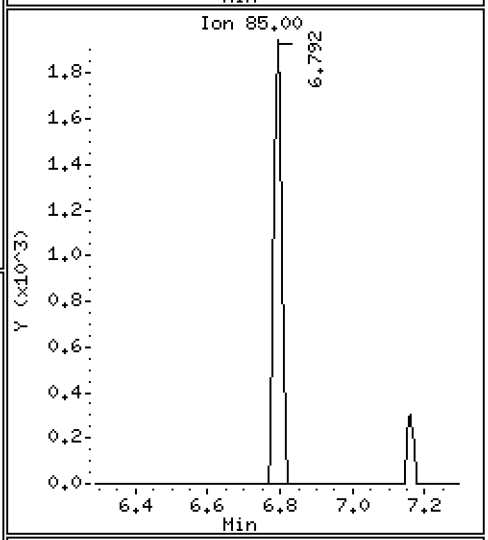


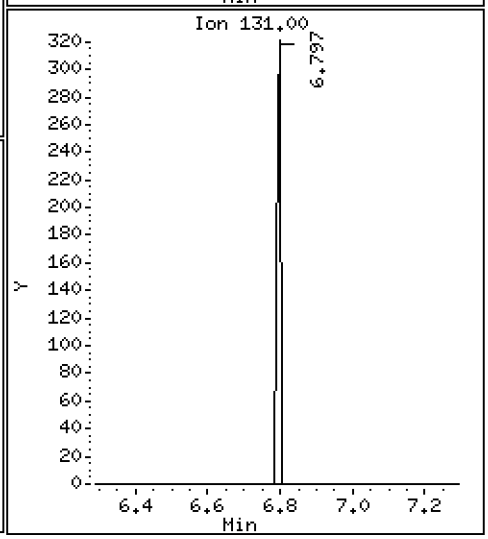












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 98

Date : 24-OCT-2016 23:25

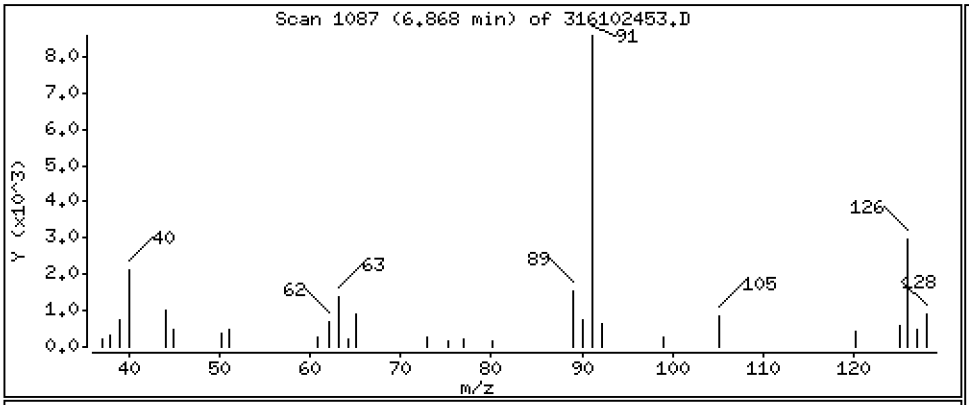
Client ID: Instrument: ms03.i

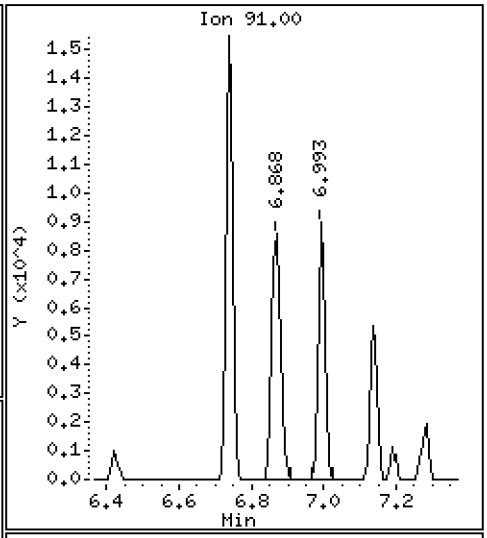
Sample Info: VSTD00.5;;1;1;8;;;

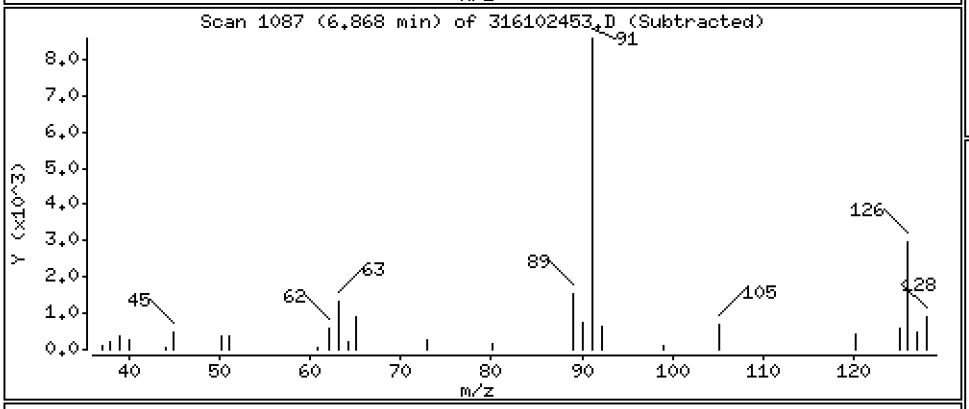
Purge Volume: 5.0 Operator: CJG

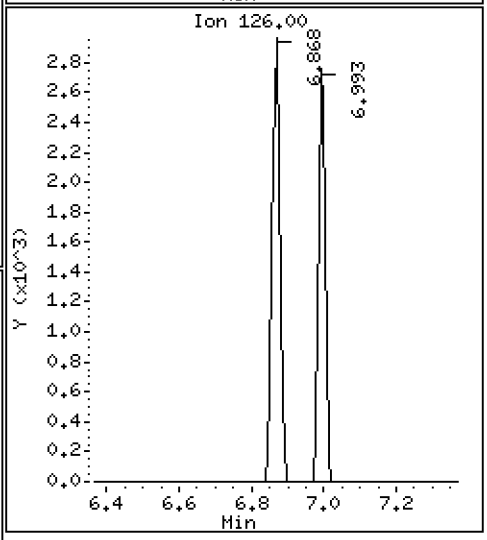
Column phase: DB-VRX Column diameter: 0.25

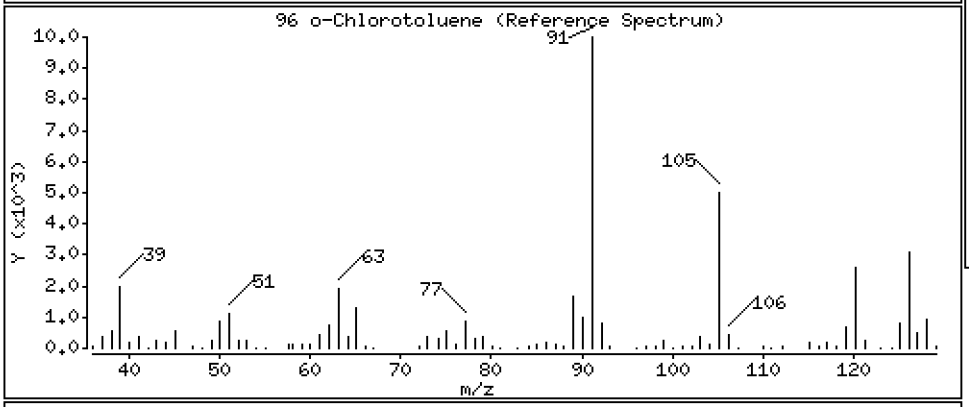
96 o-Chlorotoluene Concentration: 0.629781 ug/L

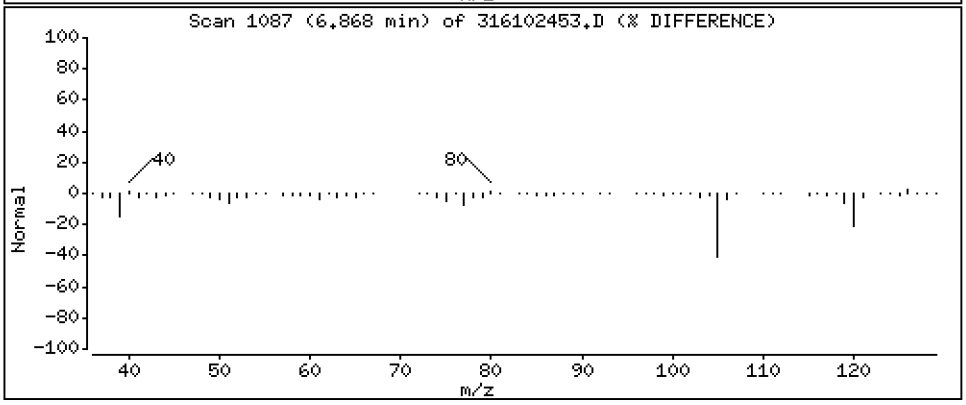












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 99

Date : 24-OCT-2016 23:25

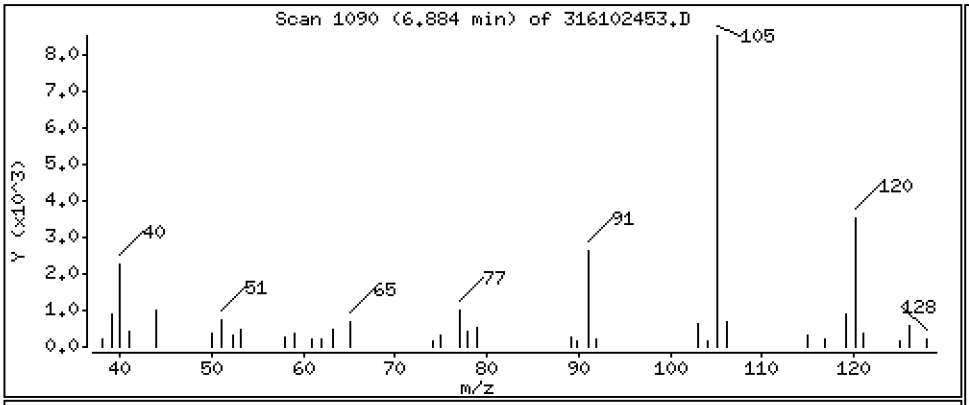
Client ID: Instrument: ms03.i

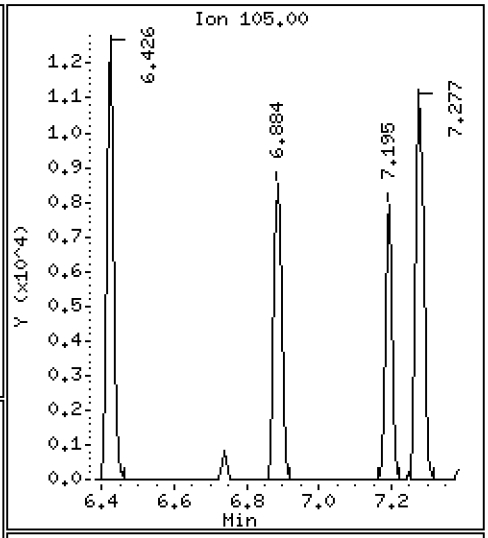
Sample Info: VSTD00.5;;1;1;8;;;

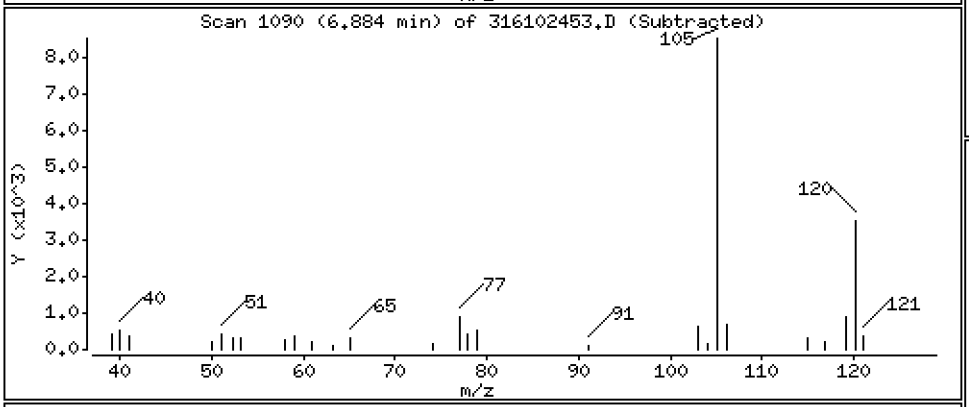
Purge Volume: 5.0 Operator: CJG

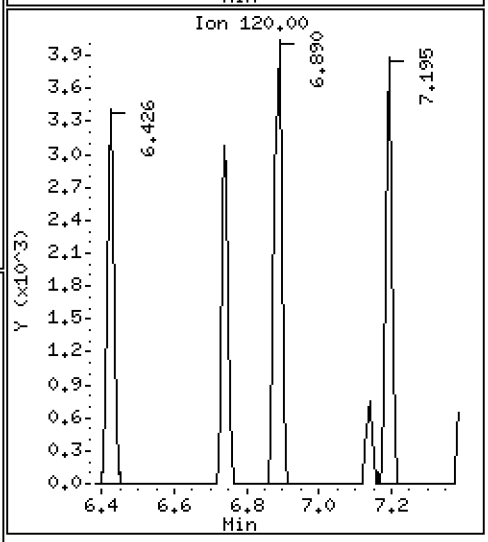
Column phase: DB-VRX Column diameter: 0.25

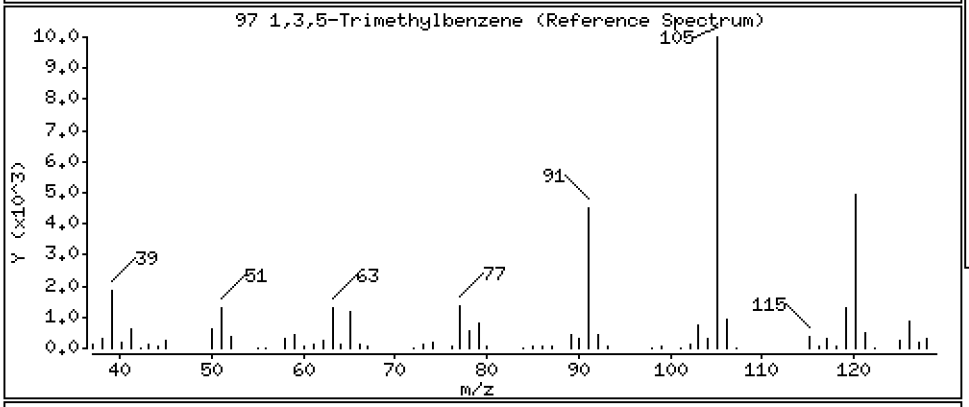
97 1,3,5-Trimethylbenzene Concentration: 0.552941 ug/L

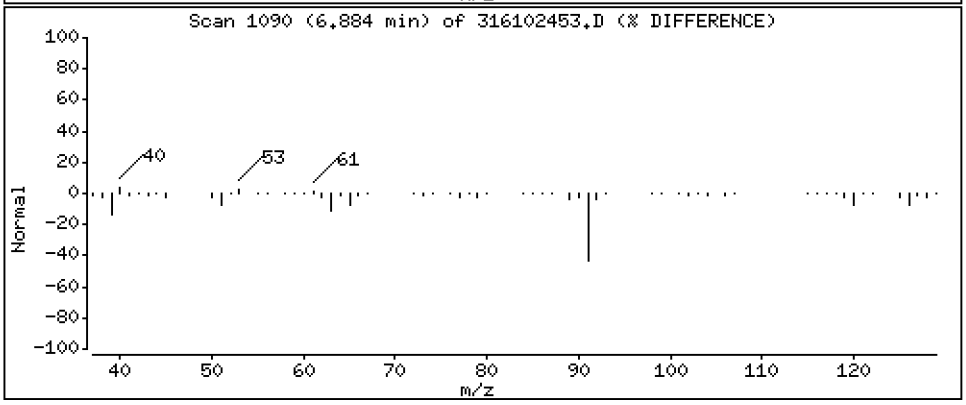












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 100

Date : 24-OCT-2016 23:25

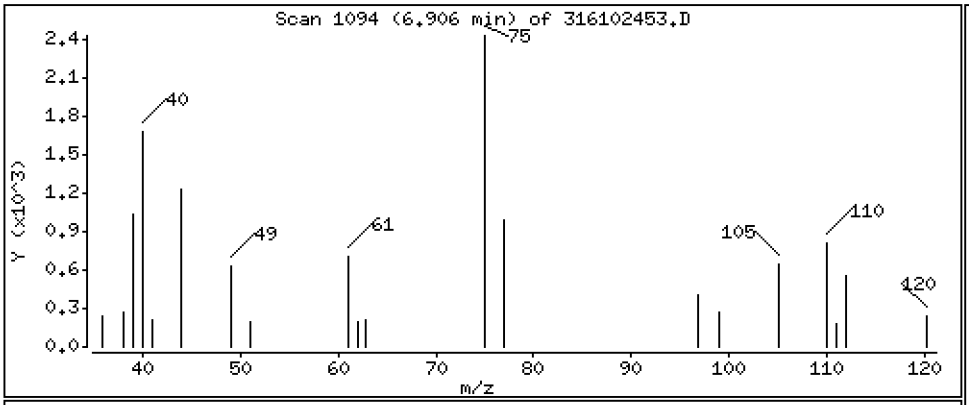
Client ID: Instrument: ms03.i

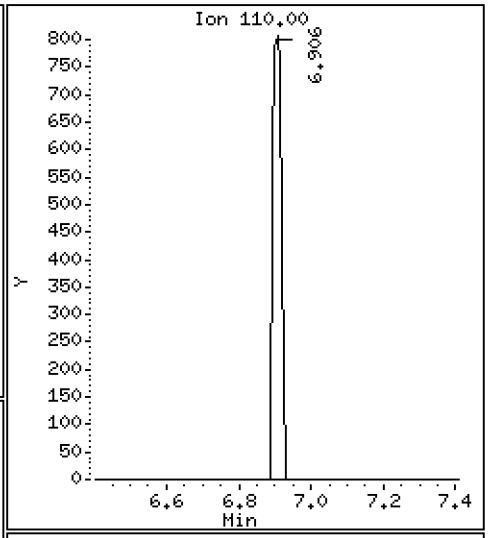
Sample Info: VSTD00.5;;1;1;8;;;

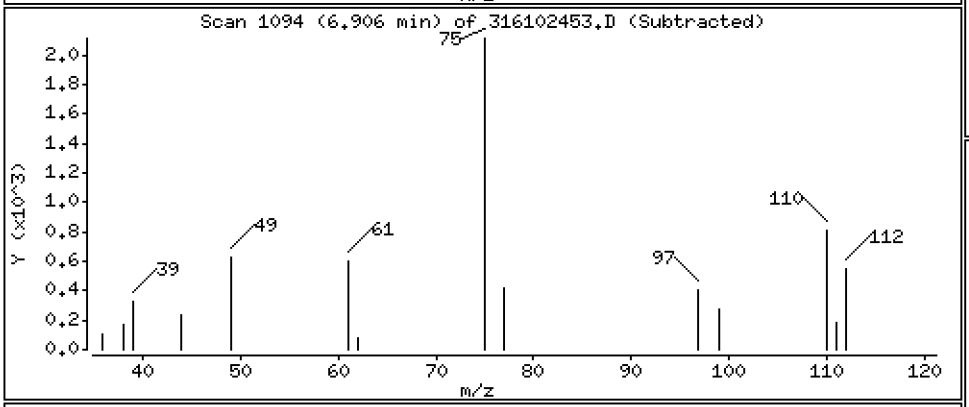
Purge Volume: 5.0 Operator: CJG

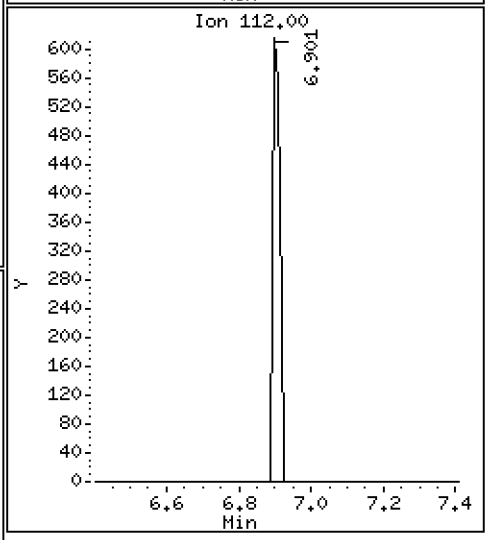
Column phase: DB-VRX Column diameter: 0.25

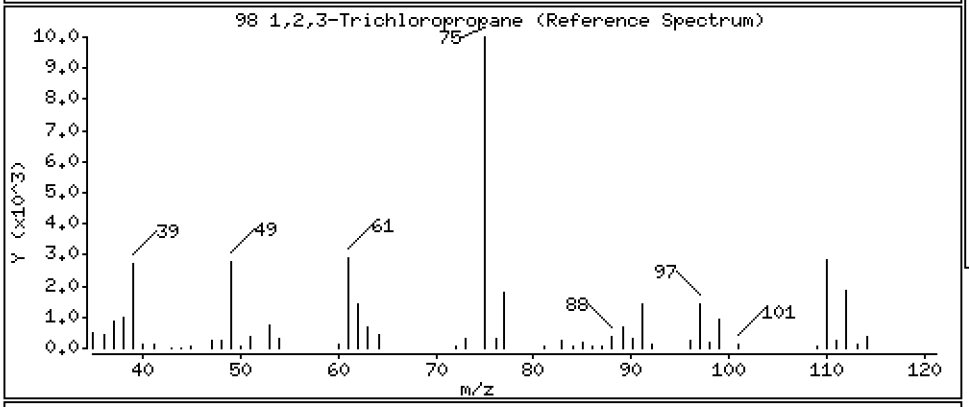
98 1,2,3-Trichloropropane Concentration: 0.622126 ug/L

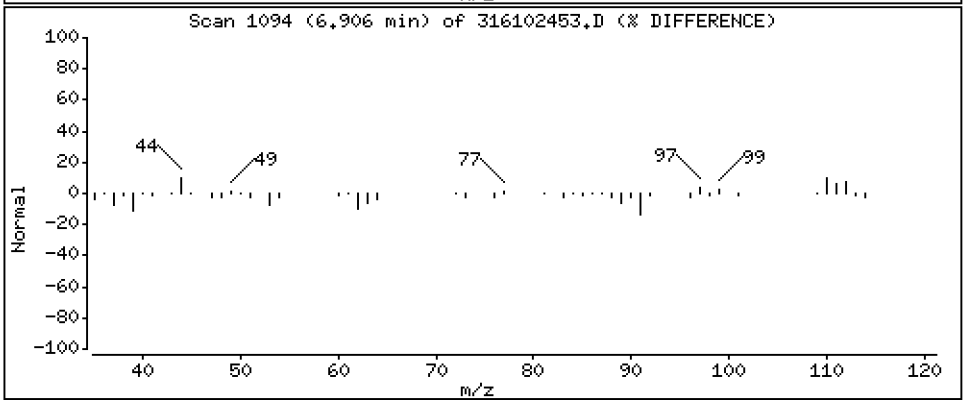












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 101

Date : 24-OCT-2016 23:25

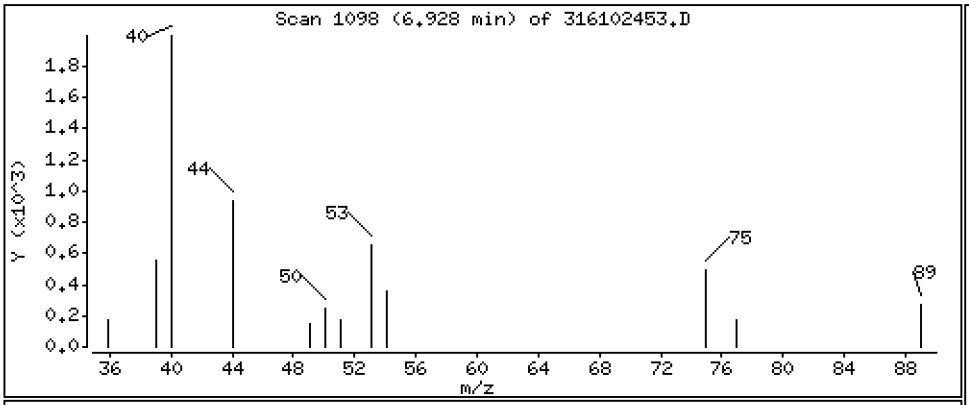
Client ID: Instrument: ms03.i

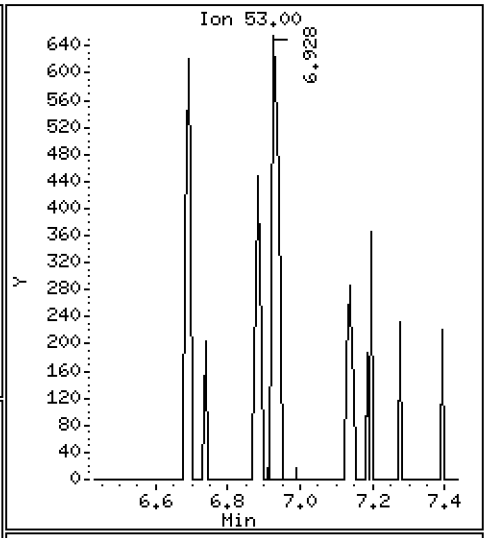
Sample Info: VSTD00.5;;1;1;8;;;

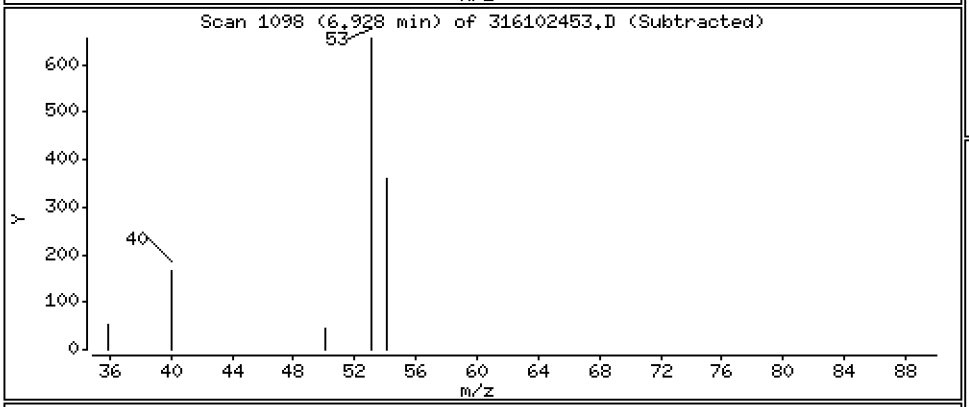
Purge Volume: 5.0 Operator: CJG

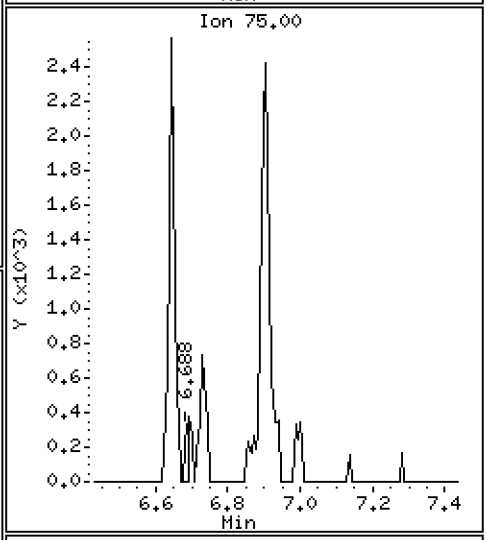
Column phase: DB-VRX Column diameter: 0.25

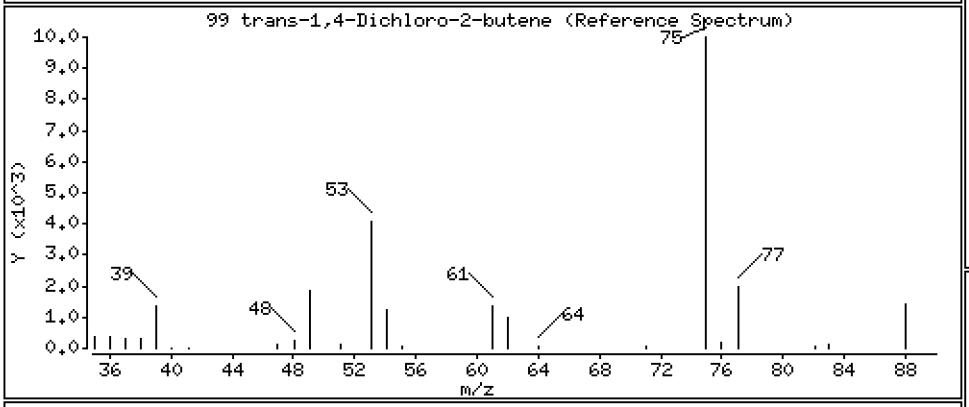
99 trans-1,4-Dichloro-2-butene Concentration: 0.414560 ug/L

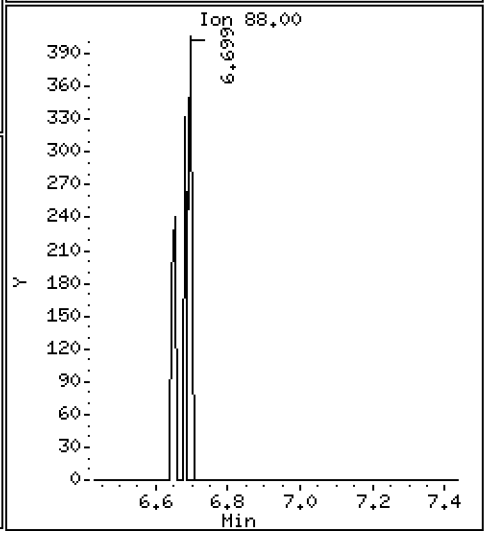


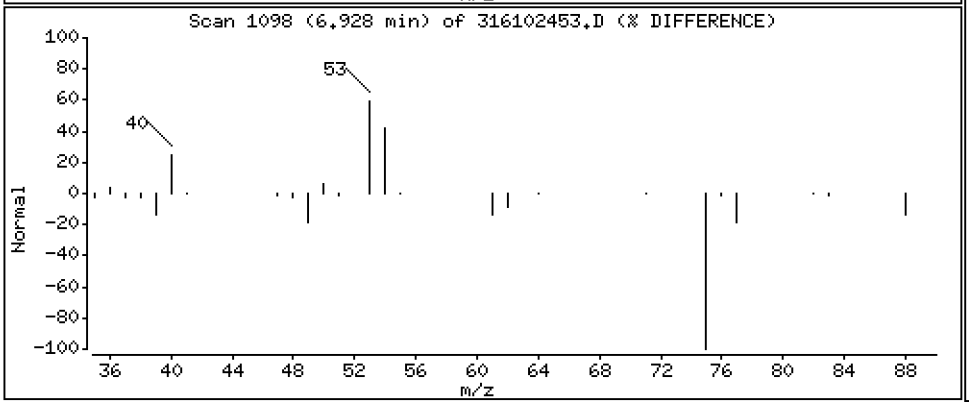












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 102

Date : 24-OCT-2016 23:25

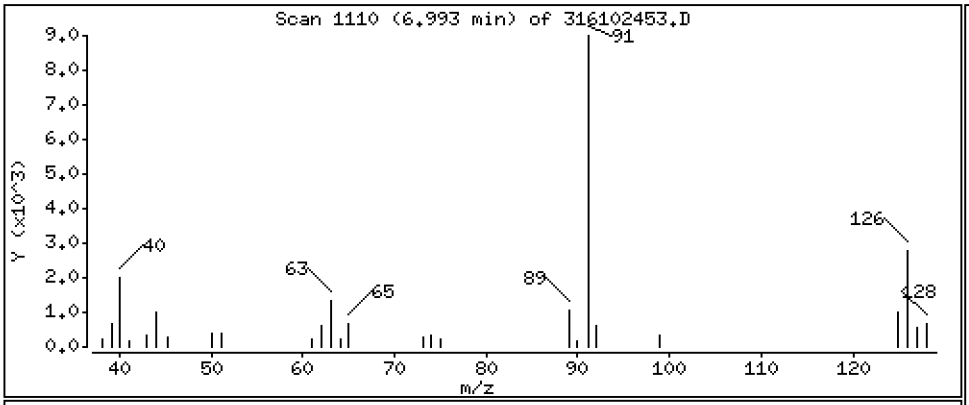
Client ID: Instrument: ms03.i

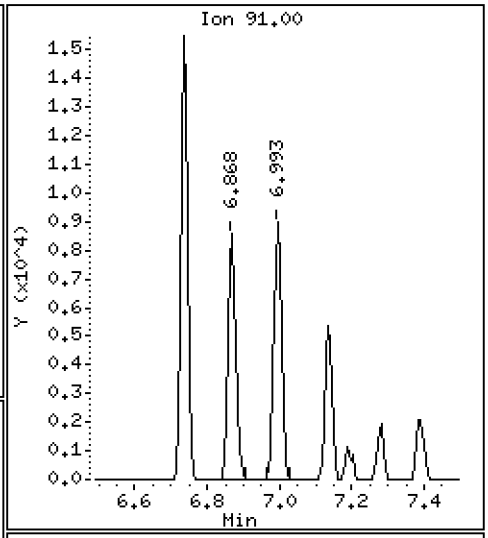
Sample Info: VSTD00.5;;1;1;8;;;

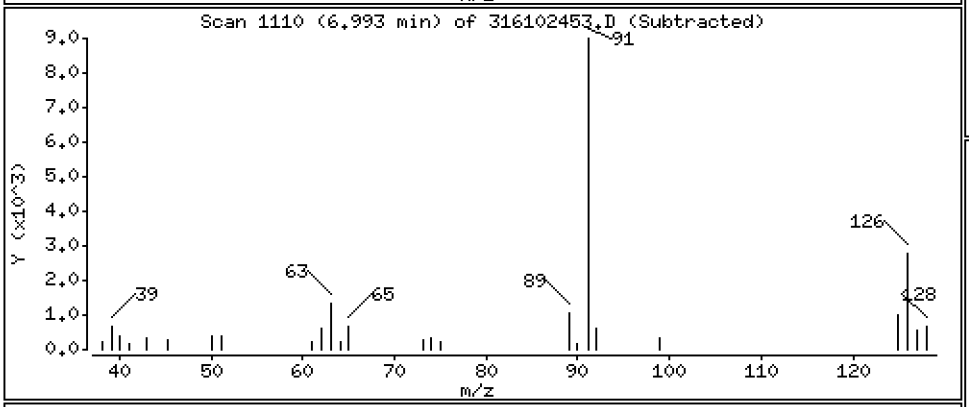
Purge Volume: 5.0 Operator: CJG

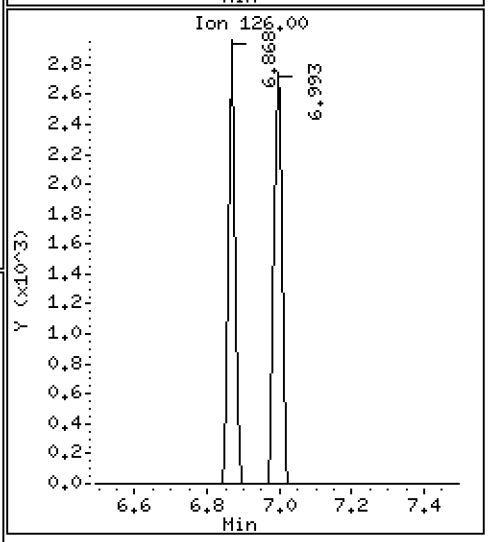
Column phase: DB-VRX Column diameter: 0.25

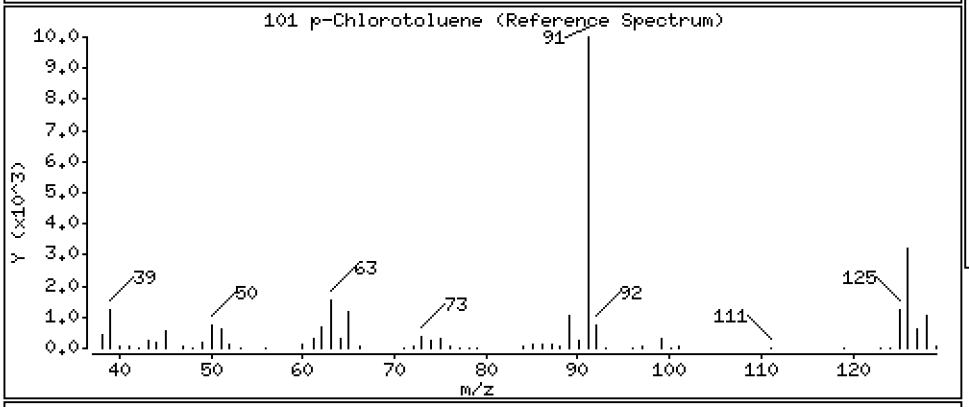
101 p-Chlorotoluene Concentration: 0.609234 ug/L

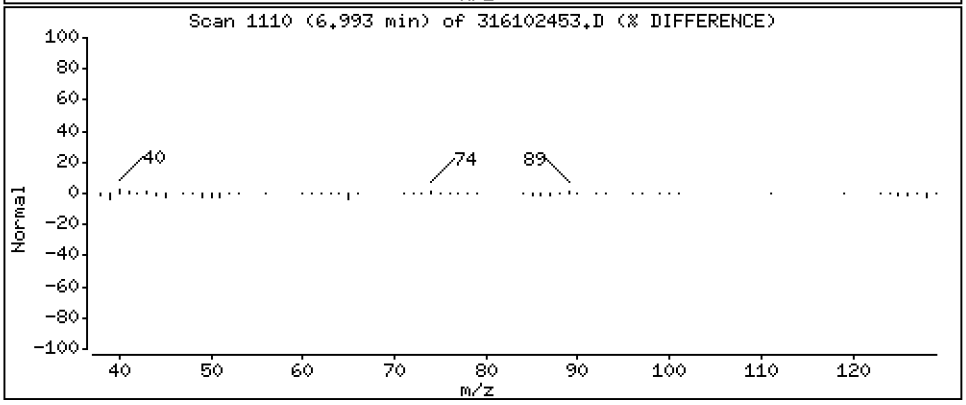












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 103

Date : 24-OCT-2016 23:25

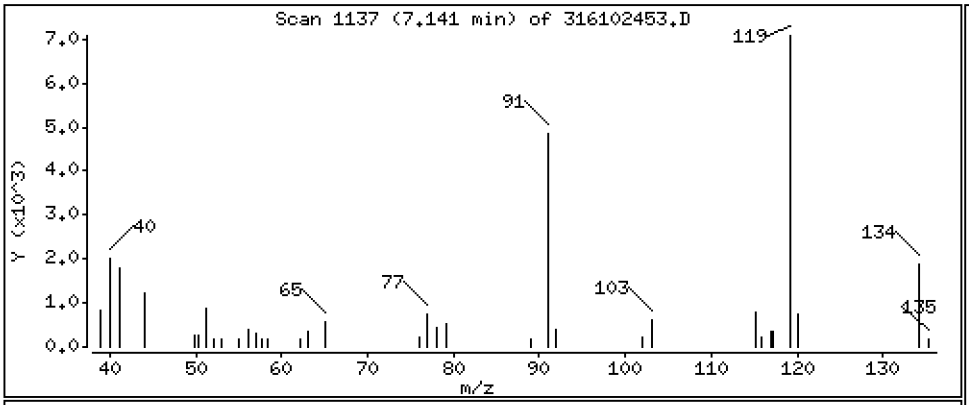
Client ID: Instrument: ms03.i

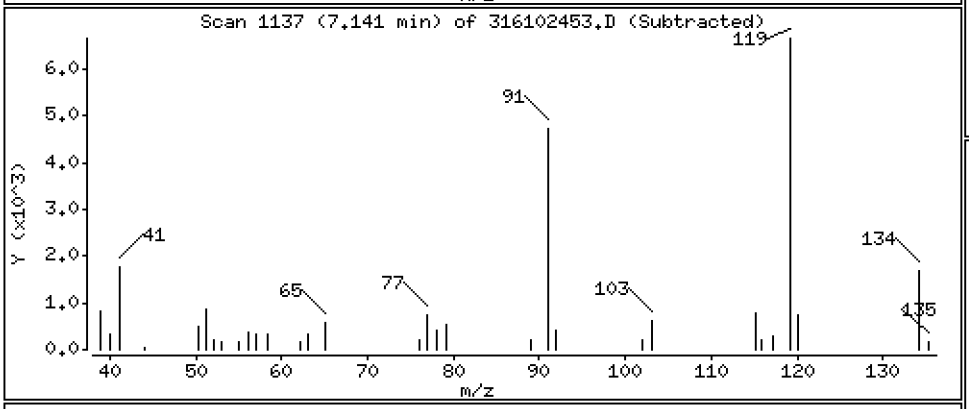
Sample Info: VSTD00.5;;1;1;8;;;

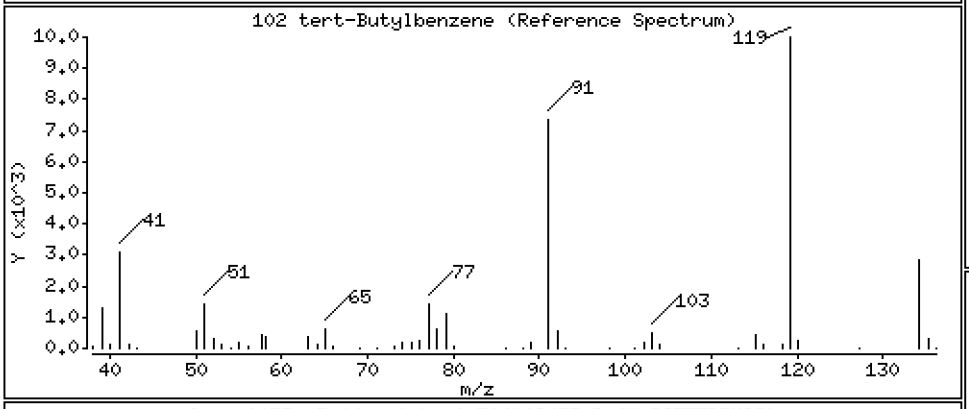
Purge Volume: 5.0 Operator: CJG

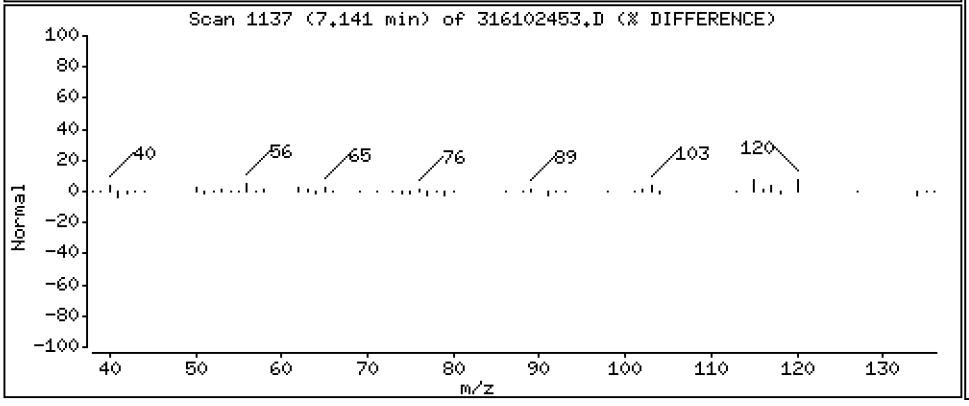
Column phase: DB-VRX Column diameter: 0.25

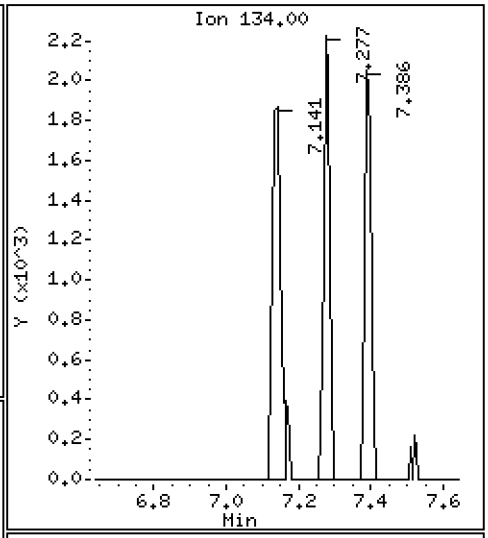
102 tert-Butylbenzene Concentration: 0.610887 ug/L

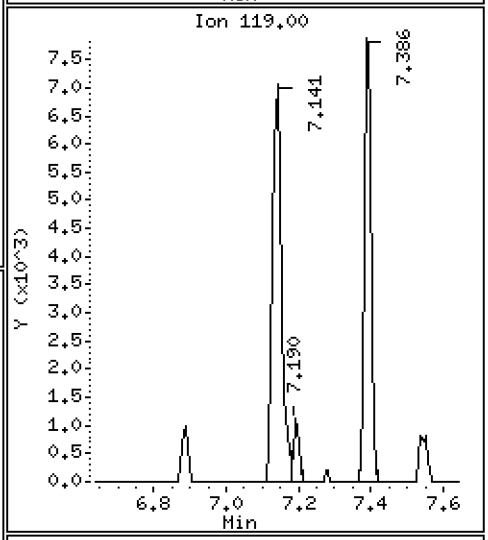


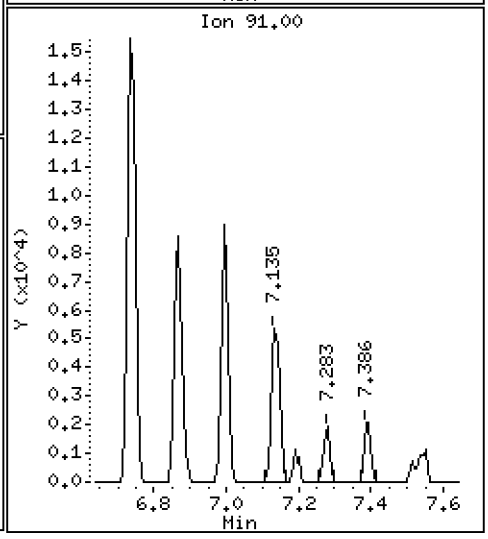












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 104

Date : 24-OCT-2016 23:25

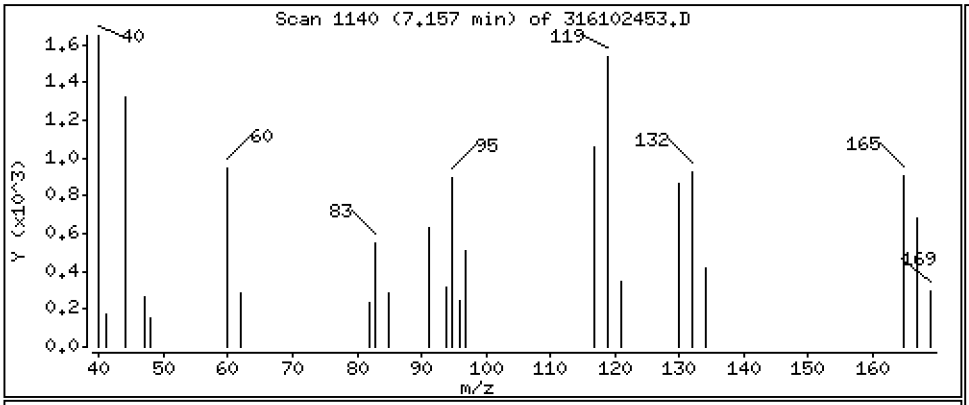
Client ID: Instrument: ms03.i

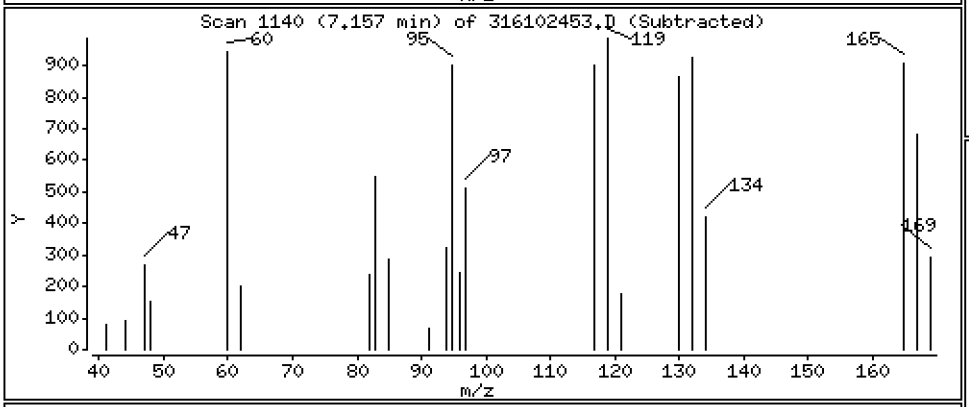
Sample Info: VSTD00.5;;1;1;8;;;

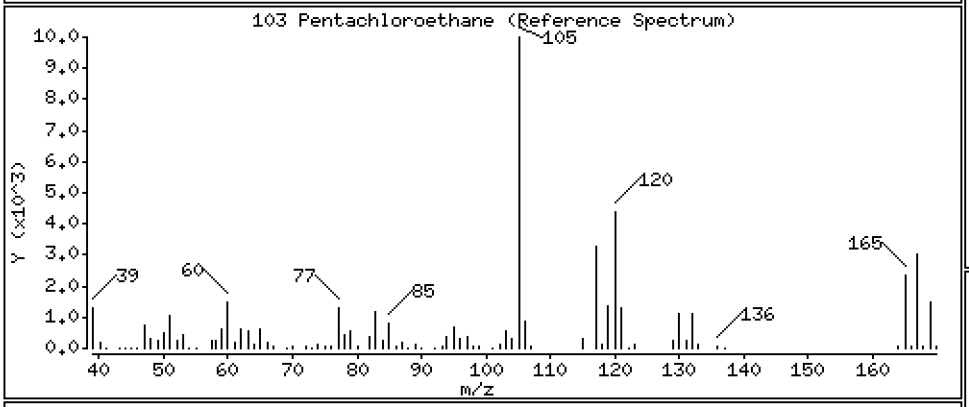
Purge Volume: 5.0 Operator: CJG

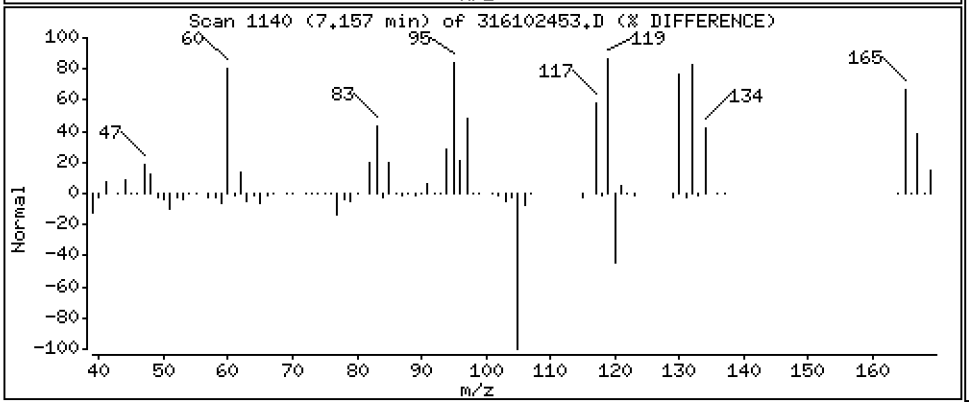
Column phase: DB-VRX Column diameter: 0.25

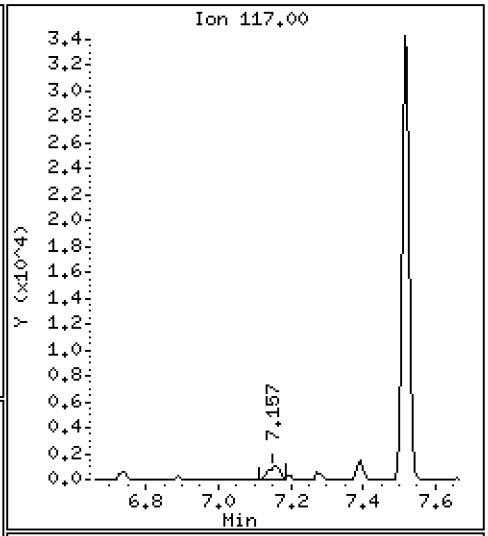
103 Pentachloroethane Concentration: 0.574449 ug/L

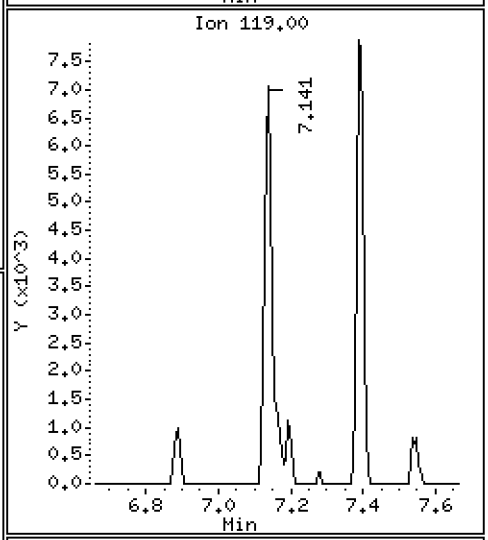


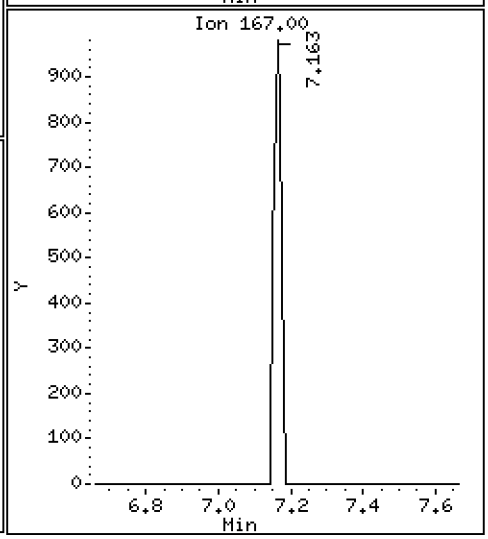












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 105

Date : 24-OCT-2016 23:25

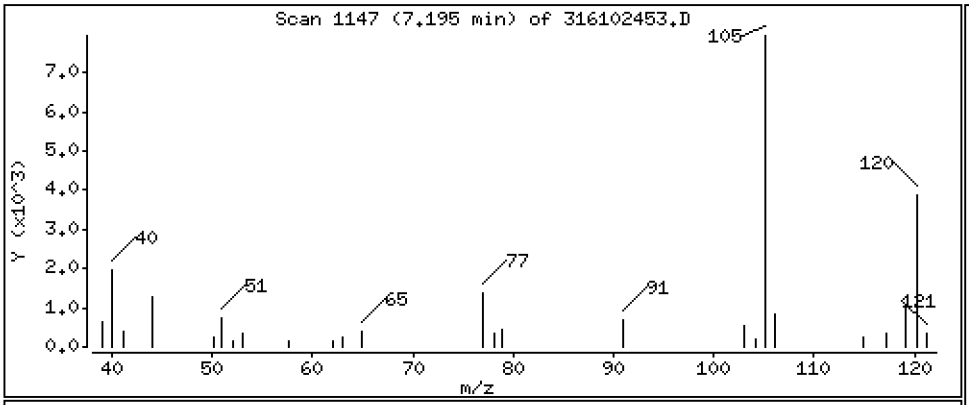
Client ID: Instrument: ms03.i

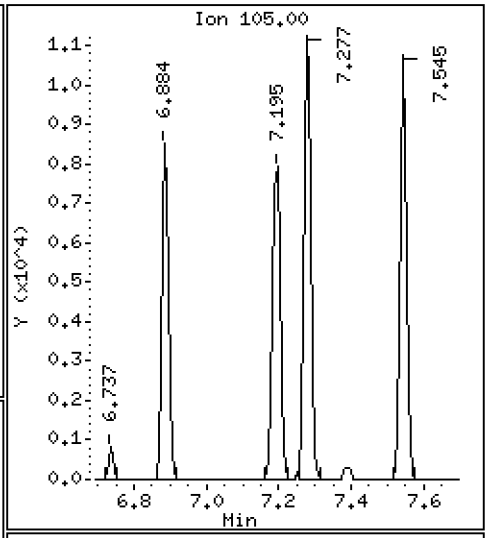
Sample Info: VSTD00.5;;1;1;8;;;

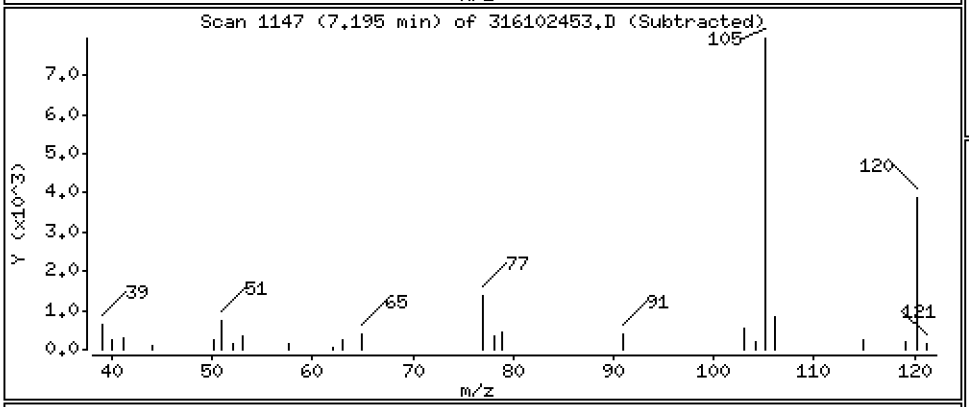
Purge Volume: 5.0 Operator: CJG

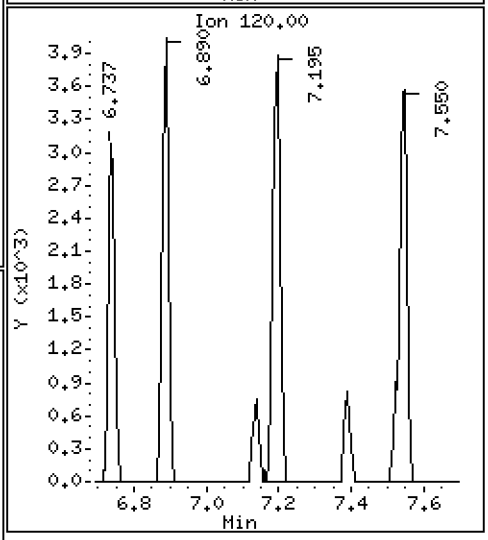
Column phase: DB-VRX Column diameter: 0.25

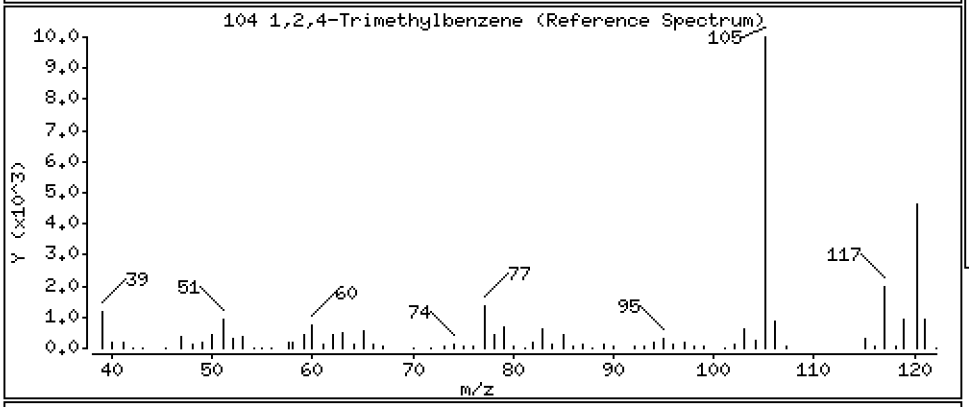
104 1,2,4-Trimethylbenzene Concentration: 0.510417 ug/L

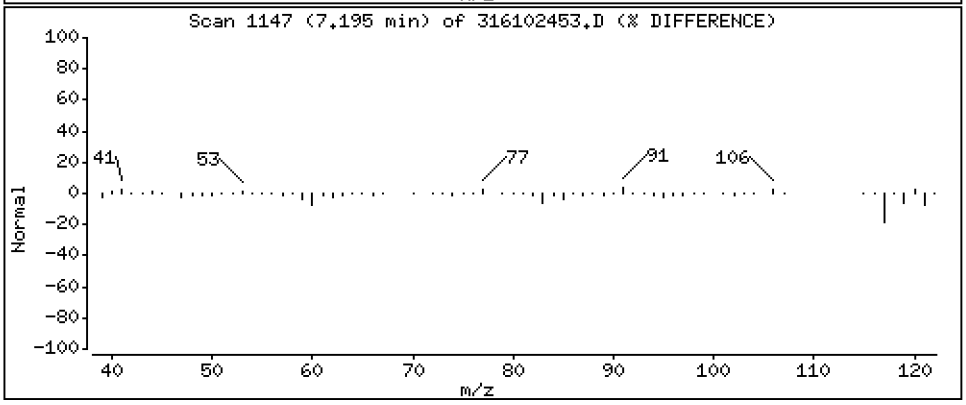












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 106

Date : 24-OCT-2016 23:25

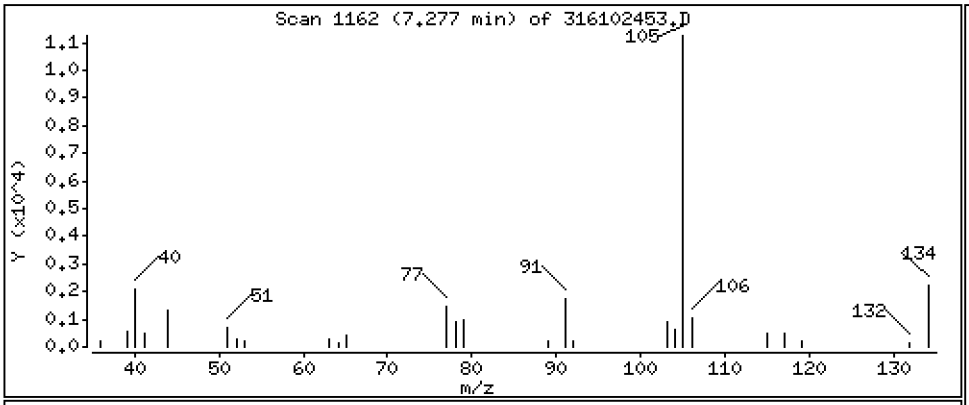
Client ID: Instrument: ms03.i

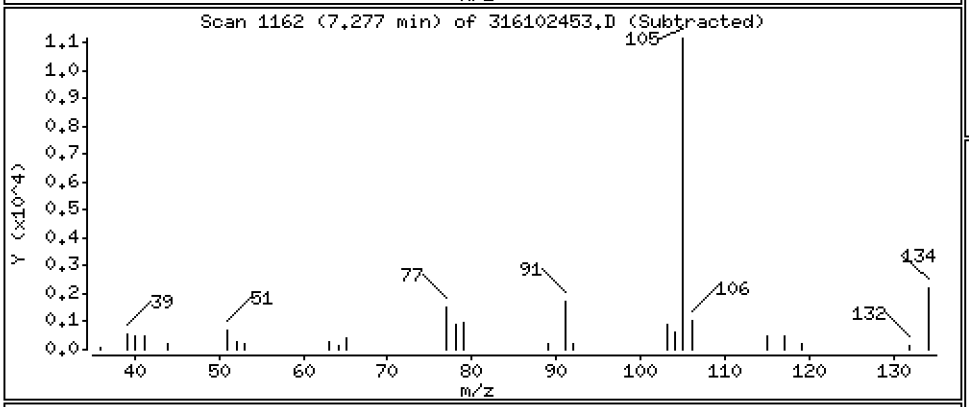
Sample Info: VSTD00.5;;1;1;8;;;

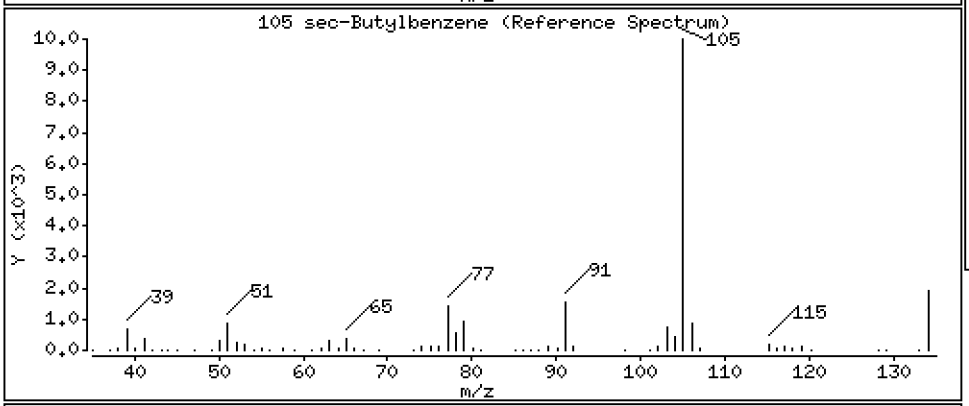
Purge Volume: 5.0 Operator: CJG

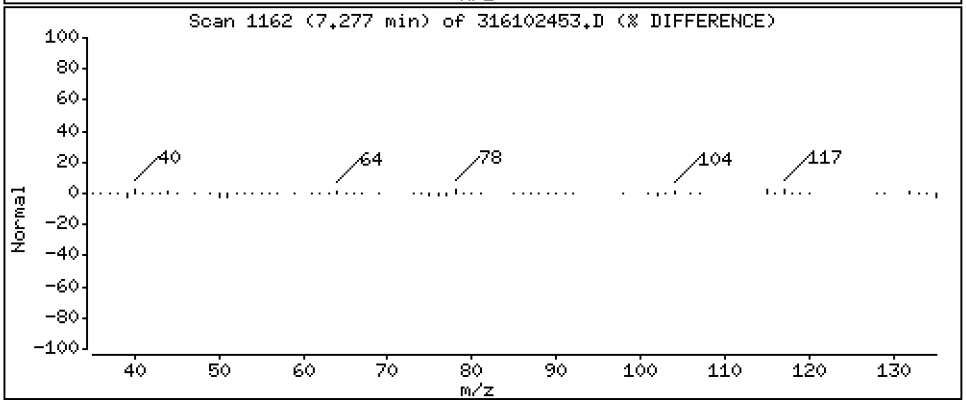
Column phase: DB-VRX Column diameter: 0.25

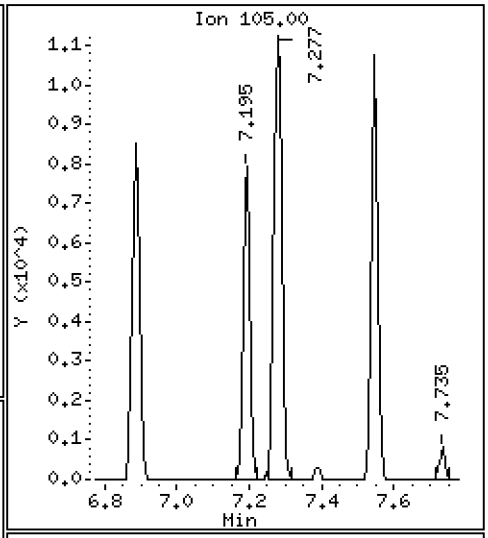
105 sec-Butylbenzene Concentration: 0.618733 ug/L

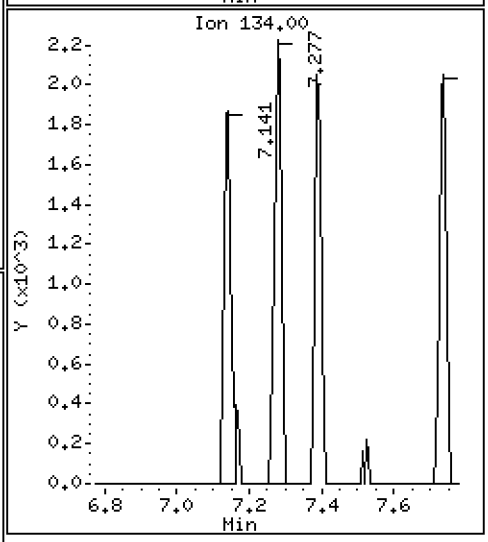












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 107

Date : 24-OCT-2016 23:25

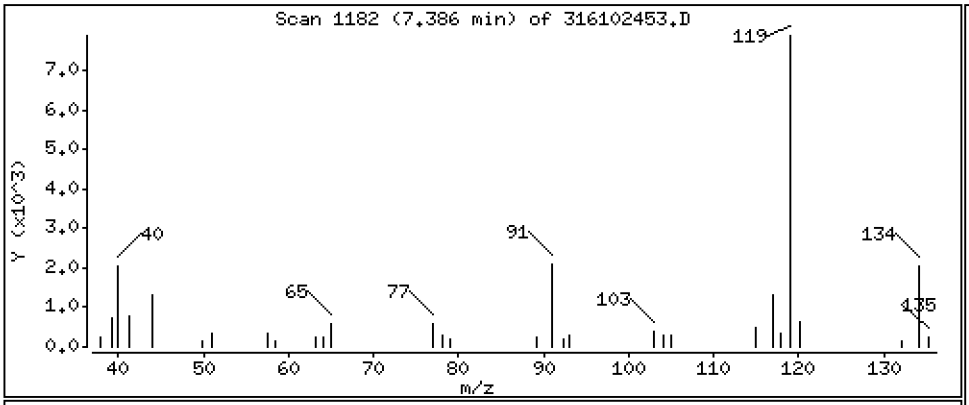
Client ID: Instrument: ms03.i

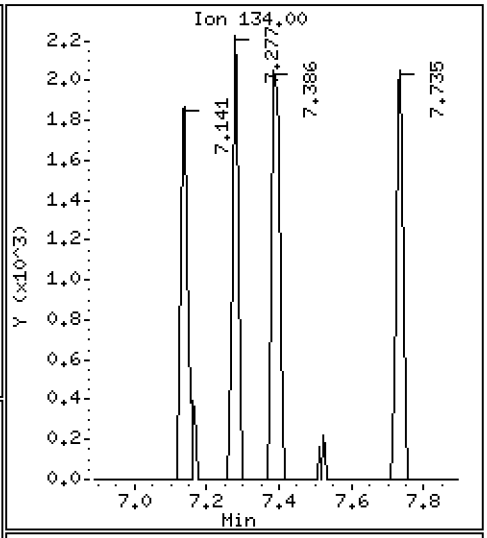
Sample Info: VSTD00.5;;1;1;8;;;

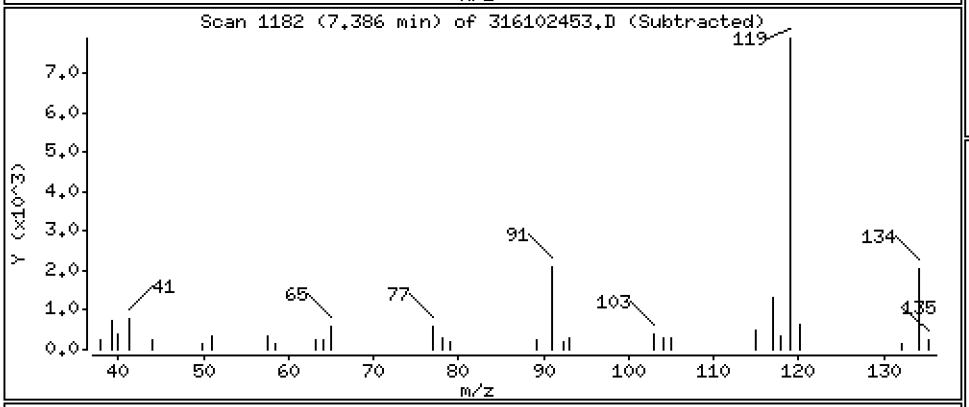
Purge Volume: 5.0 Operator: CJG

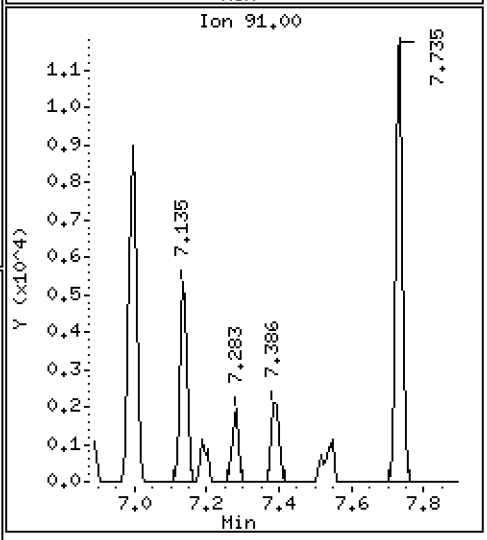
Column phase: DB-VRX Column diameter: 0.25

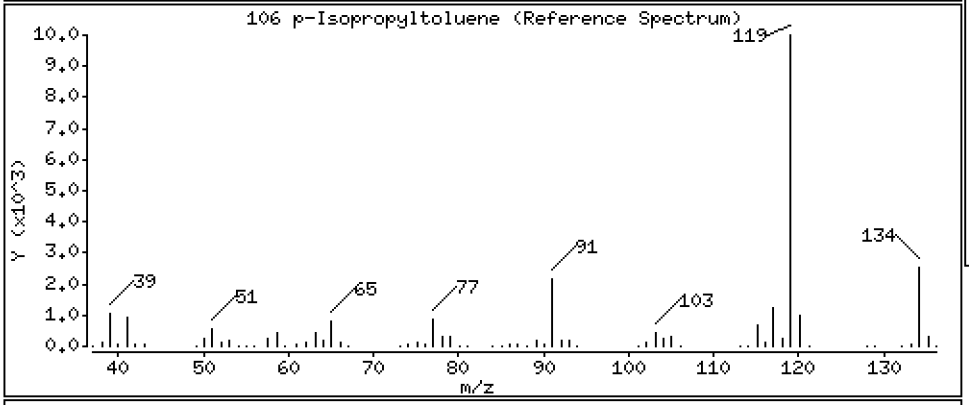
106 p-Isopropyltoluene Concentration: 0.552939 ug/L

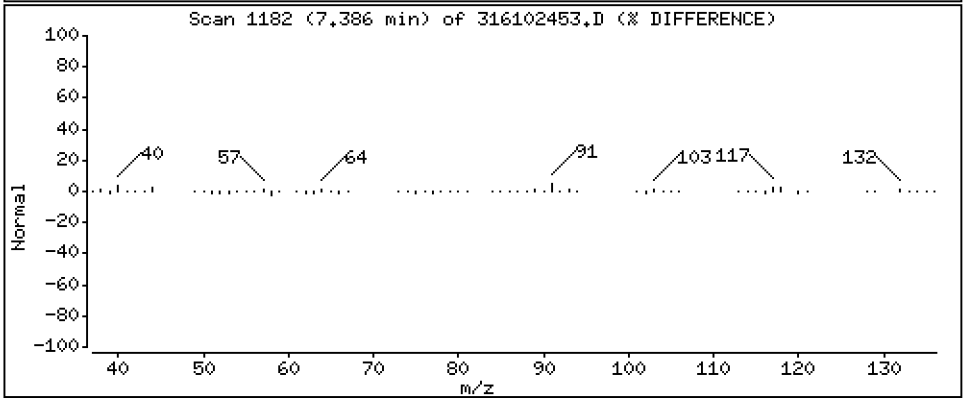












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 108

Date : 24-OCT-2016 23:25

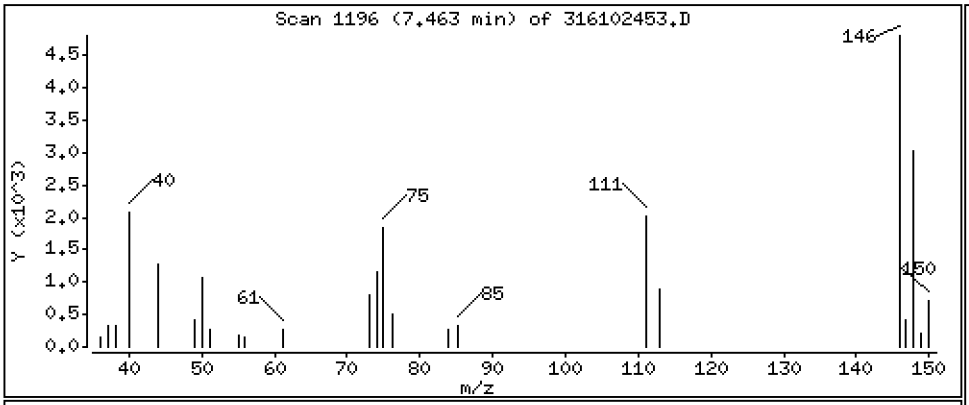
Client ID: Instrument: ms03.i

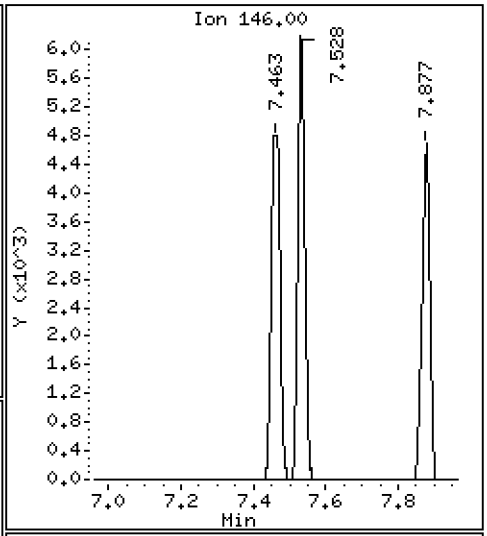
Sample Info: VSTD00.5;;1;1;8;;;

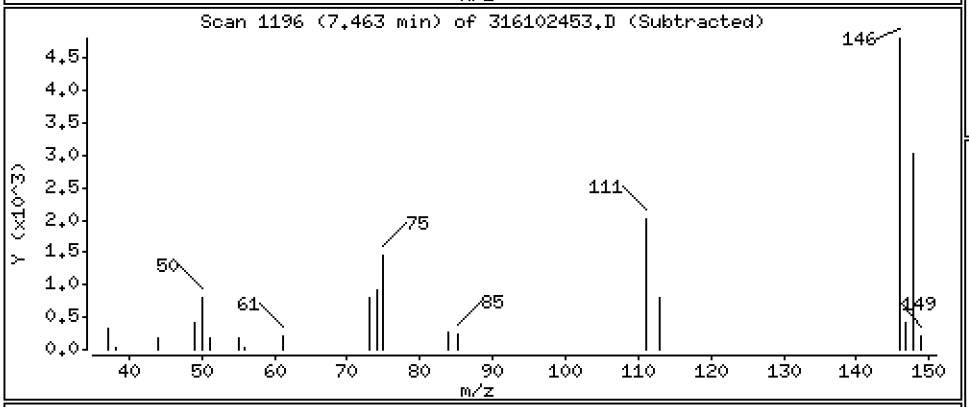
Purge Volume: 5.0 Operator: CJG

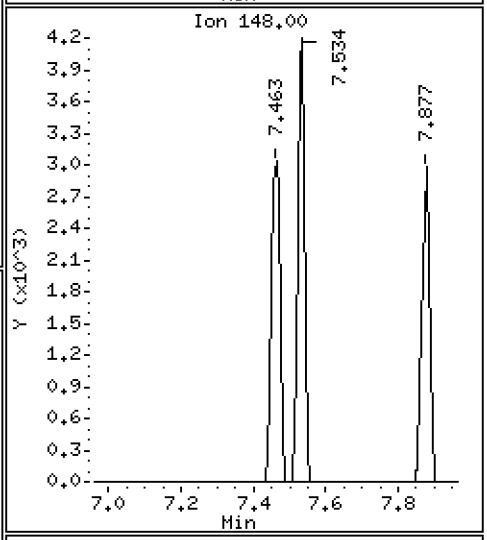
Column phase: DB-VRX Column diameter: 0.25

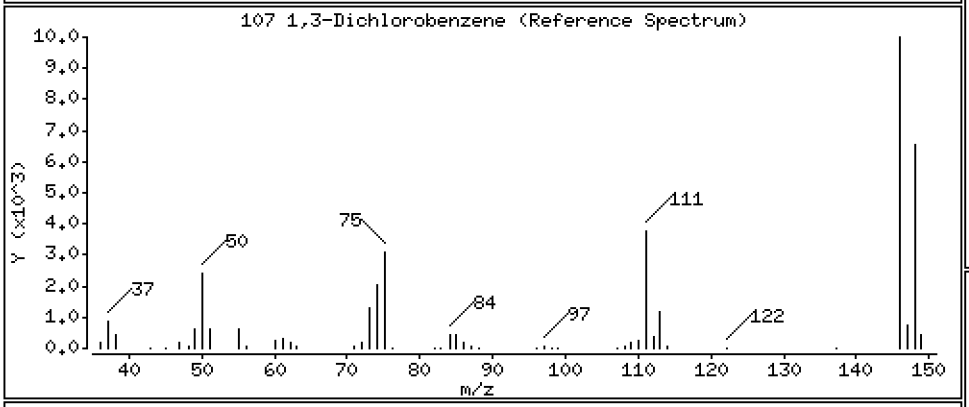
107 1,3-Dichlorobenzene Concentration: 0.730267 ug/L

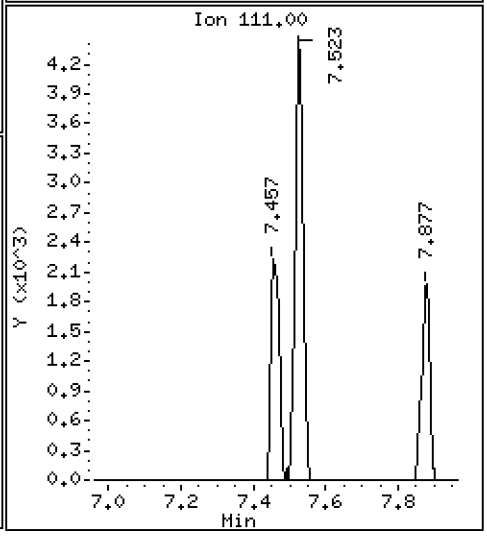


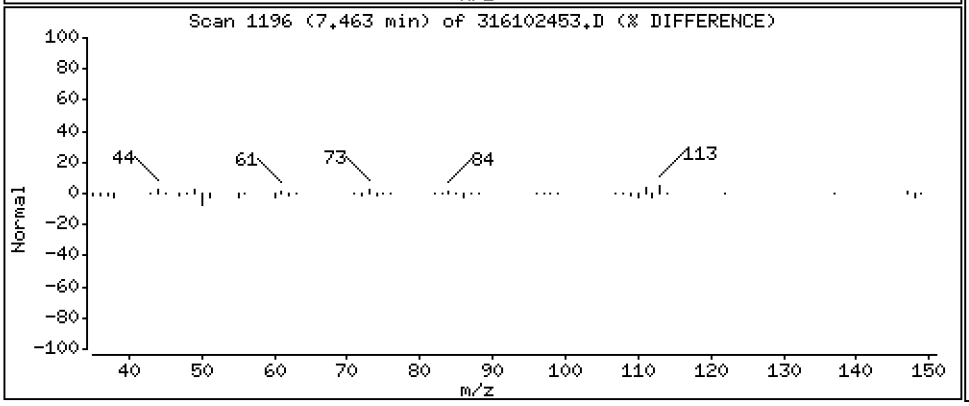












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 109

Date : 24-OCT-2016 23:25

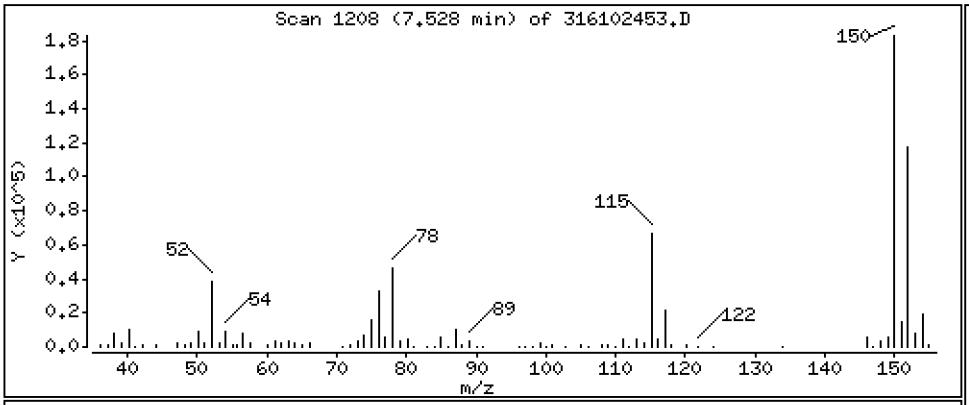
Client ID: Instrument: ms03.i

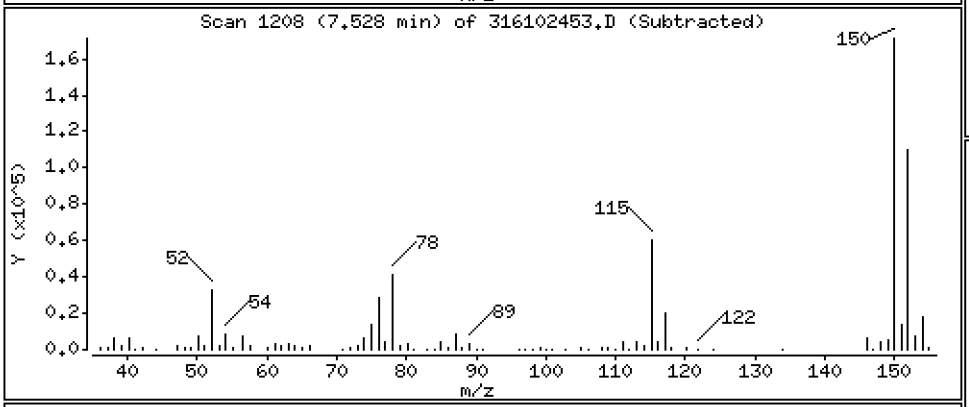
Sample Info: VSTD00.5;;1;1;8;;;

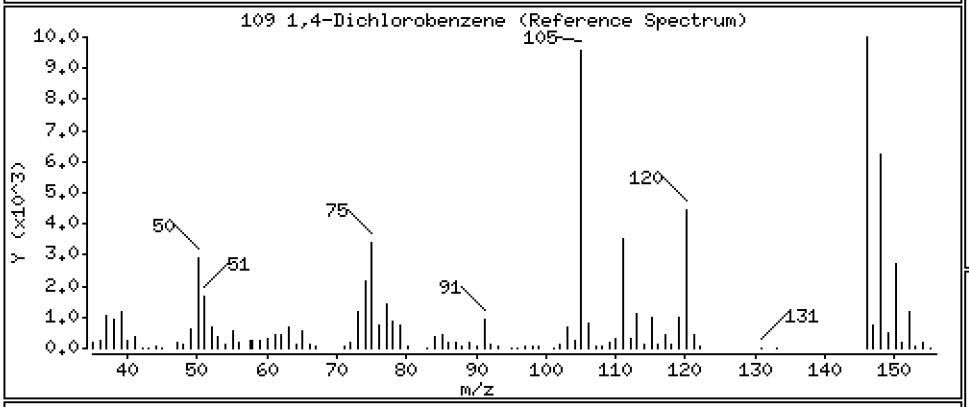
Purge Volume: 5.0 Operator: CJG

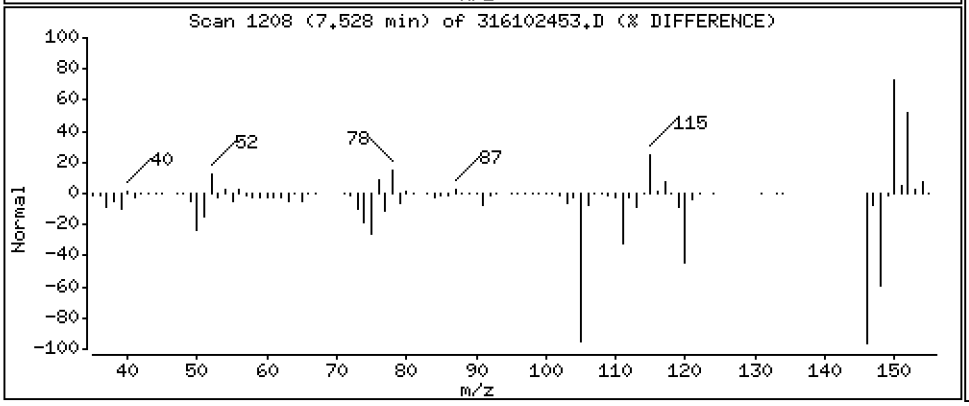
Column phase: DB-VRX Column diameter: 0.25

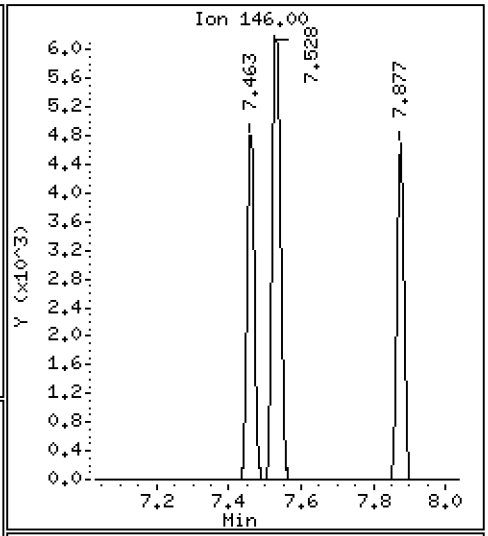
109 1,4-Dichlorobenzene Concentration: 0.875930 ug/L

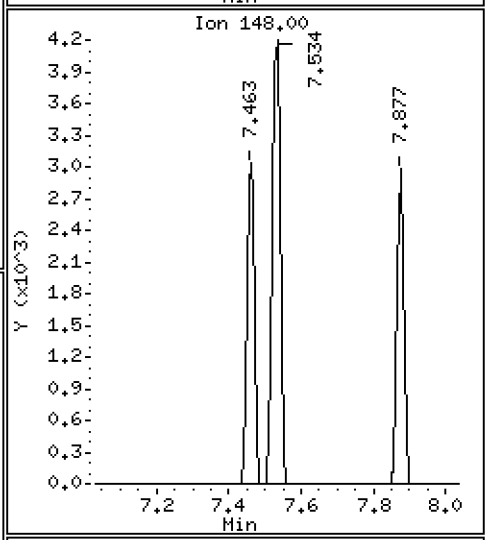


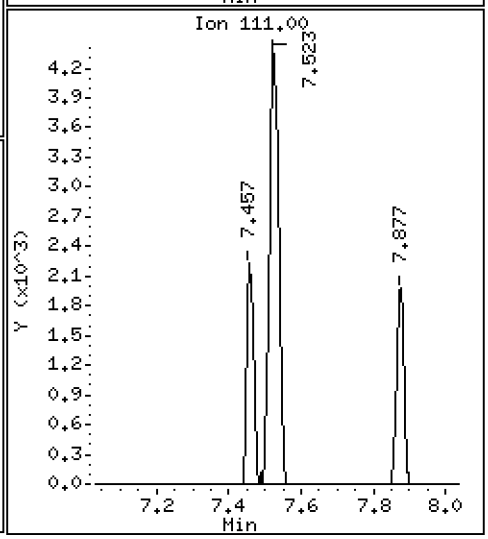












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 110

Date : 24-OCT-2016 23:25

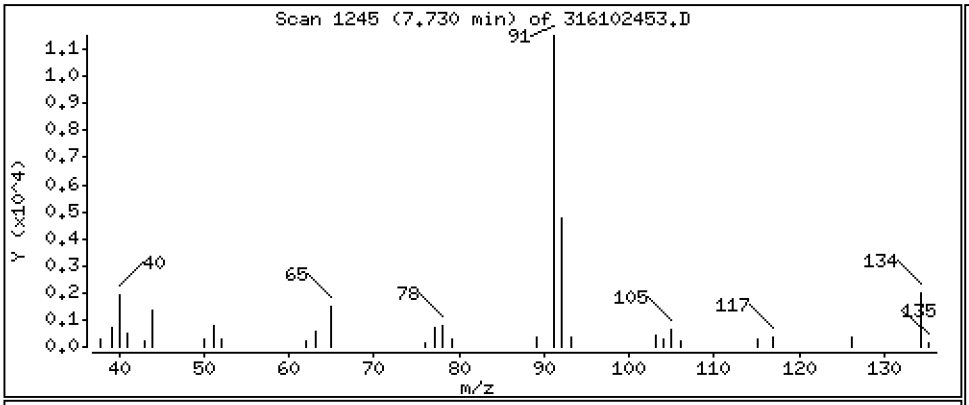
Client ID: Instrument: ms03.i

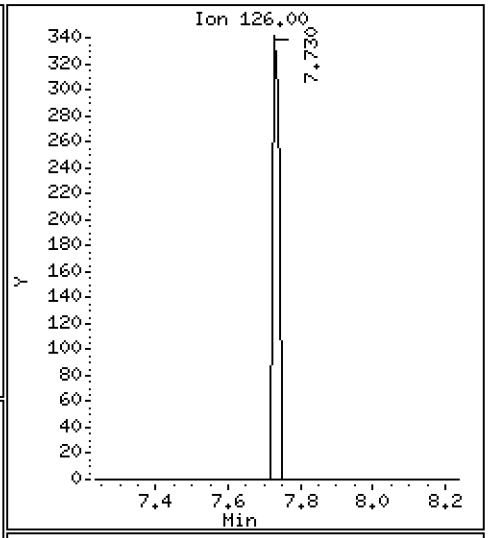
Sample Info: VSTD00.5;;1;1;8;;;

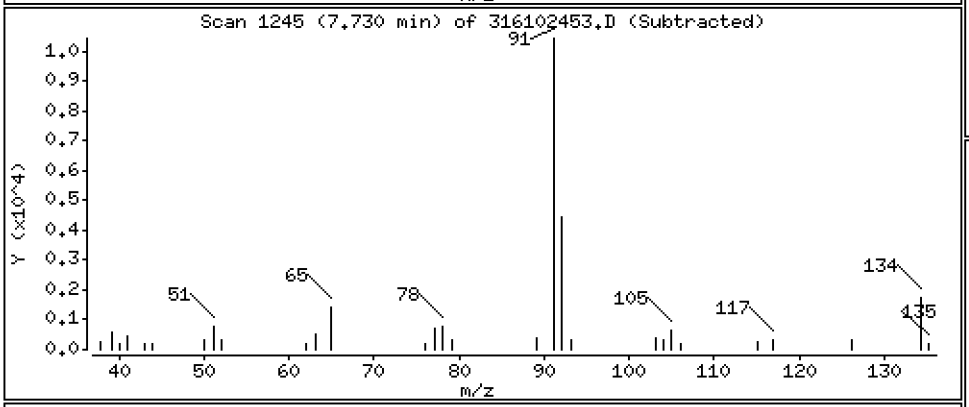
Purge Volume: 5.0 Operator: CJG

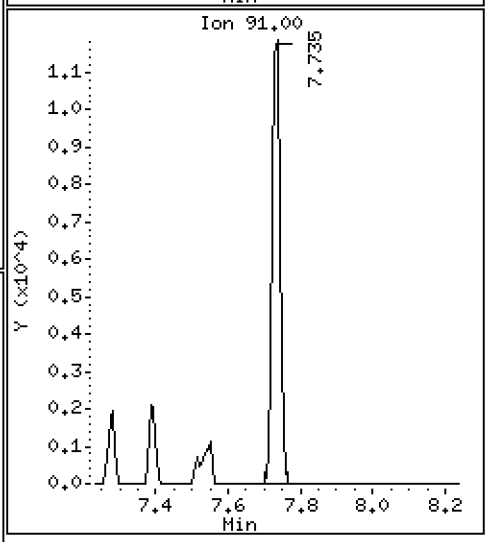
Column phase: DB-VRX Column diameter: 0.25

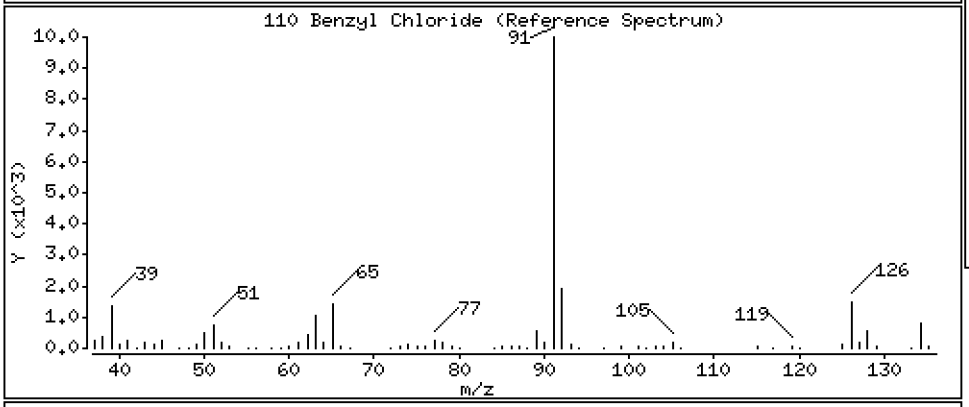
110 Benzyl Chloride Concentration: 0.285460 ug/L

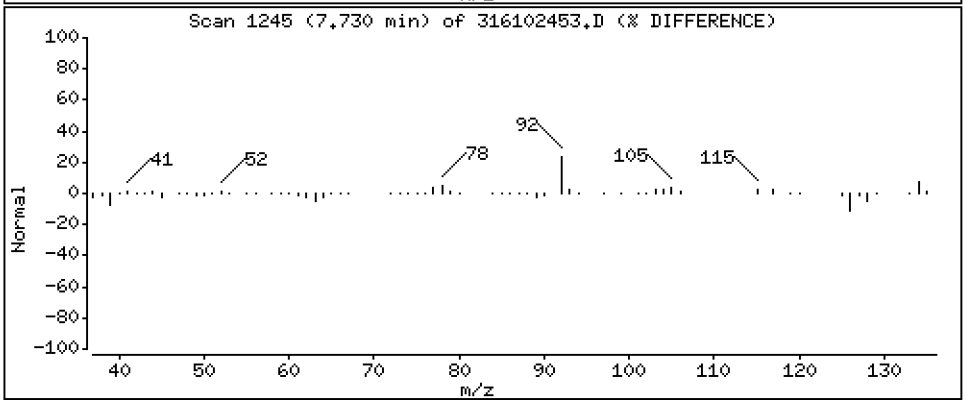












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 111

Date : 24-OCT-2016 23:25

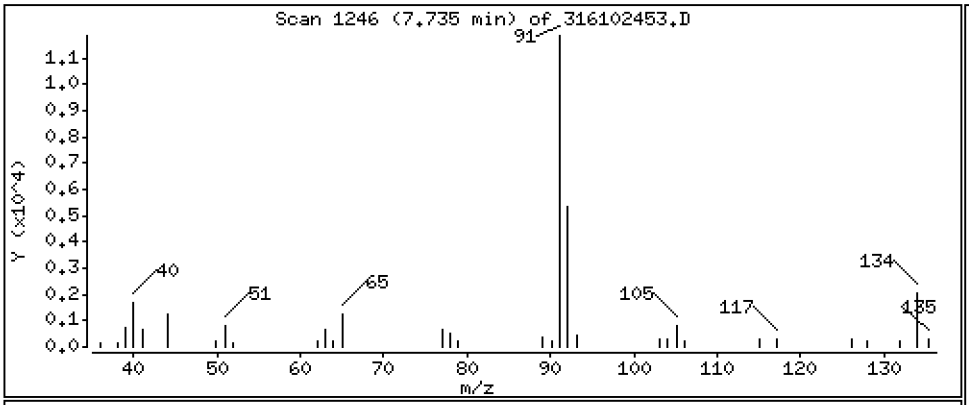
Client ID: Instrument: ms03.i

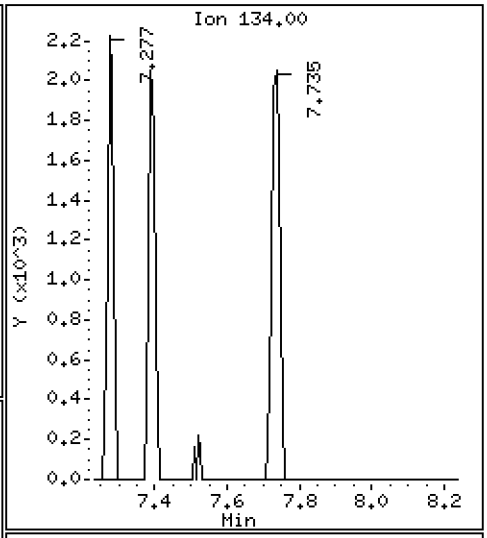
Sample Info: VSTD00.5;;1;1;8;;;

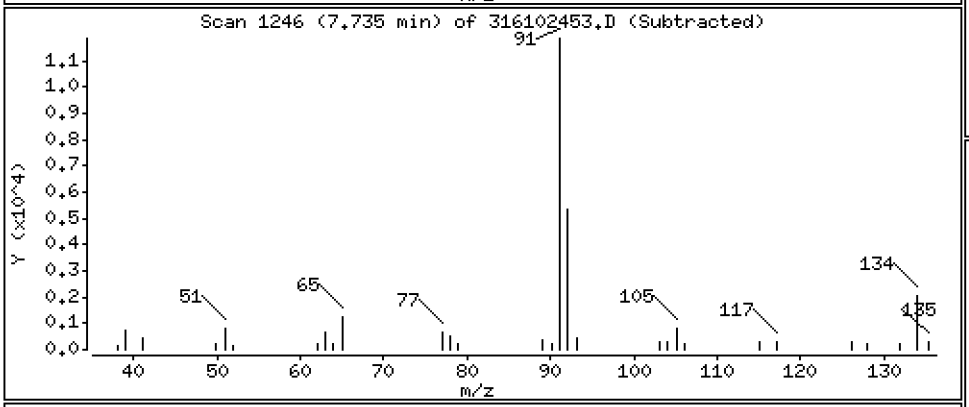
Purge Volume: 5.0 Operator: CJG

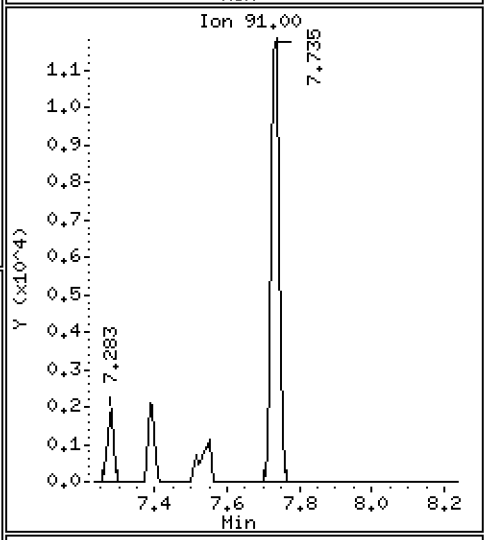
Column phase: DB-VRX Column diameter: 0.25

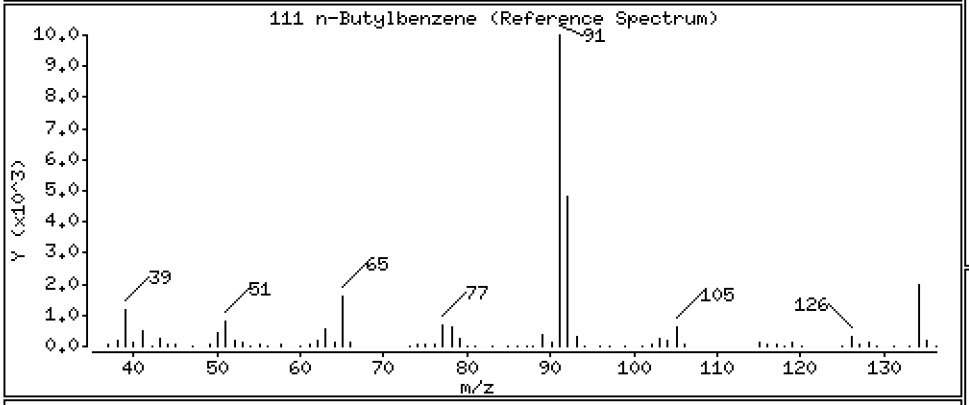
111 n-Butylbenzene Concentration: 0.674087 ug/L

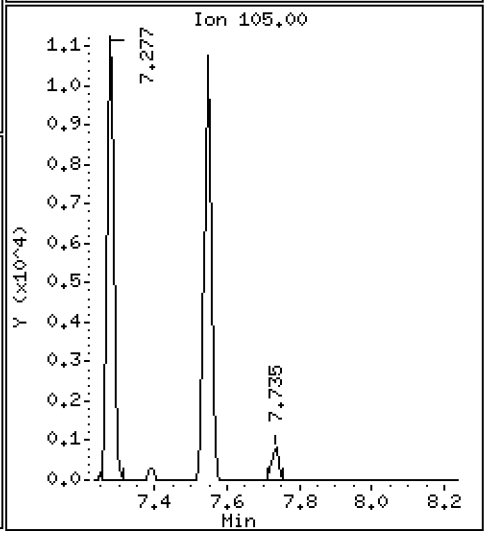


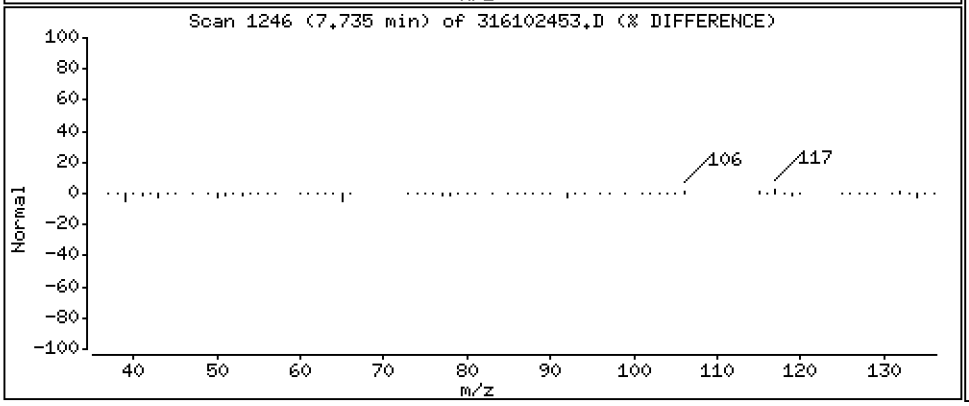












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 112

Date : 24-OCT-2016 23:25

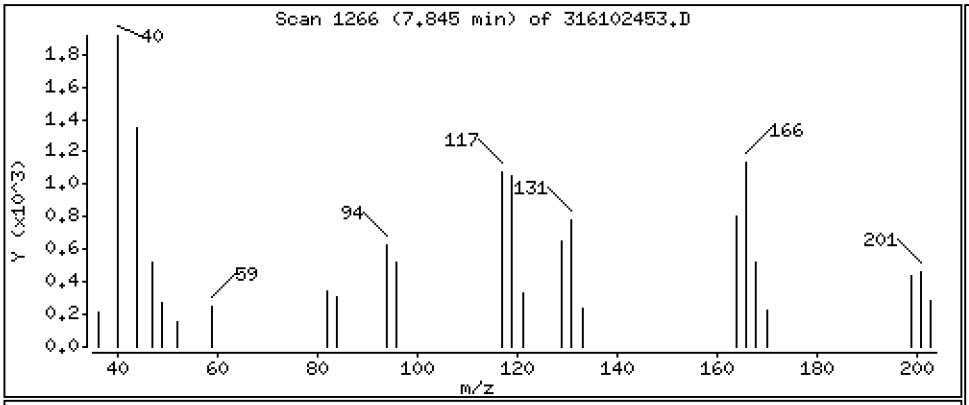
Client ID: Instrument: ms03.i

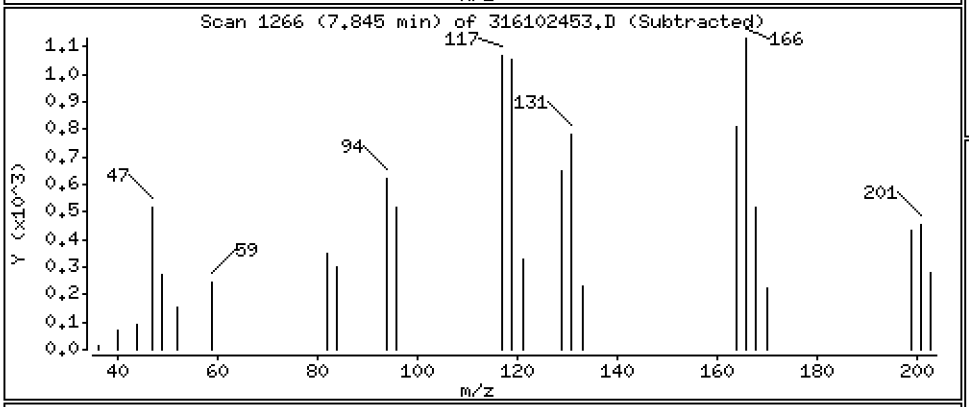
Sample Info: VSTD00.5;;1;1;8;;;

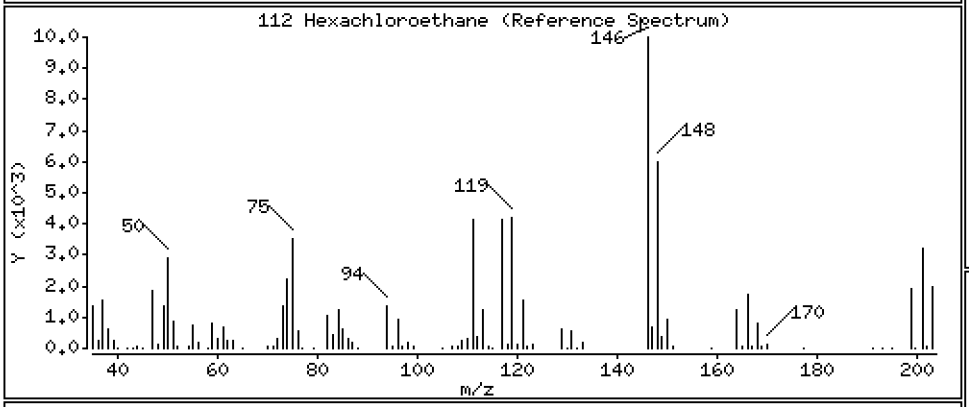
Purge Volume: 5.0 Operator: CJG

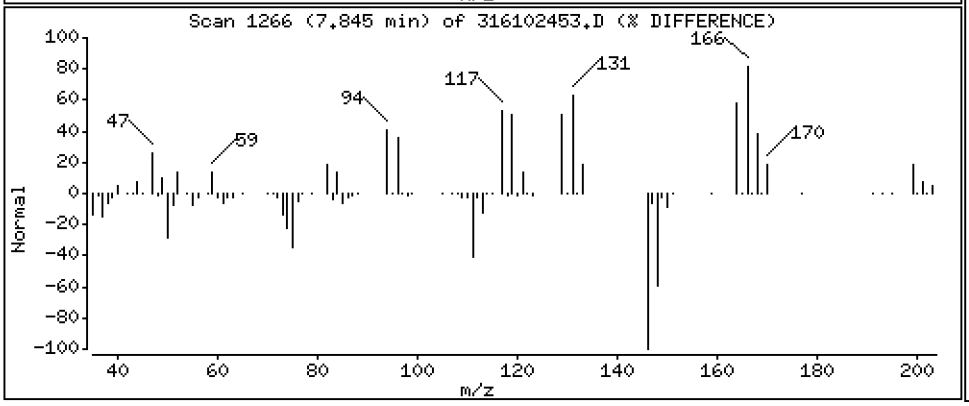
Column phase: DB-VRX Column diameter: 0.25

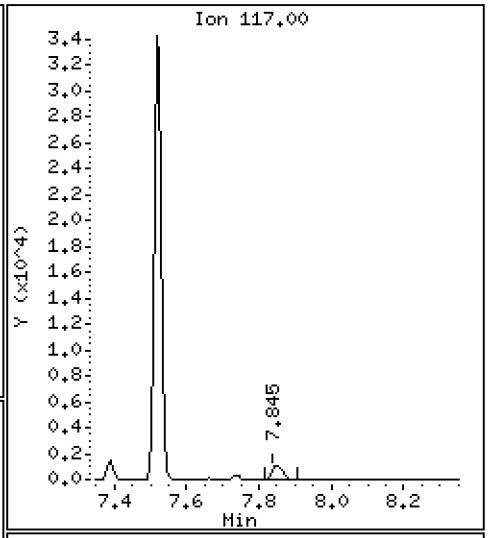
112 Hexachloroethane Concentration: 0.665106 ug/L

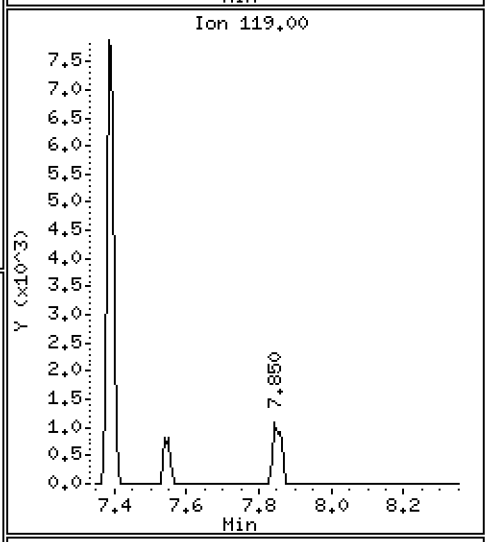


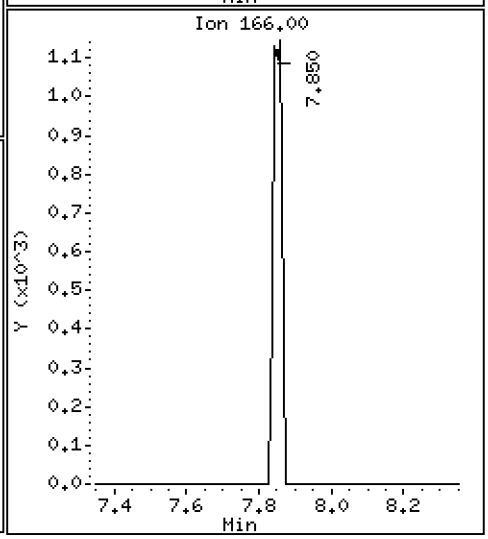












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 113

Date : 24-OCT-2016 23:25

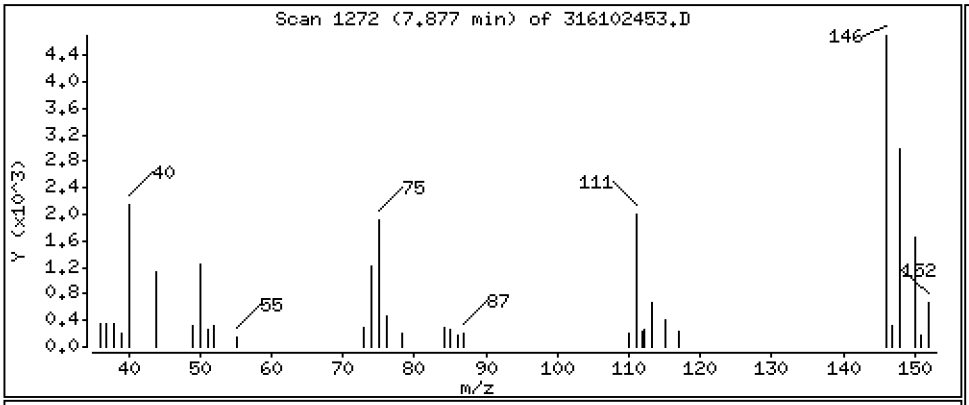
Client ID: Instrument: ms03.i

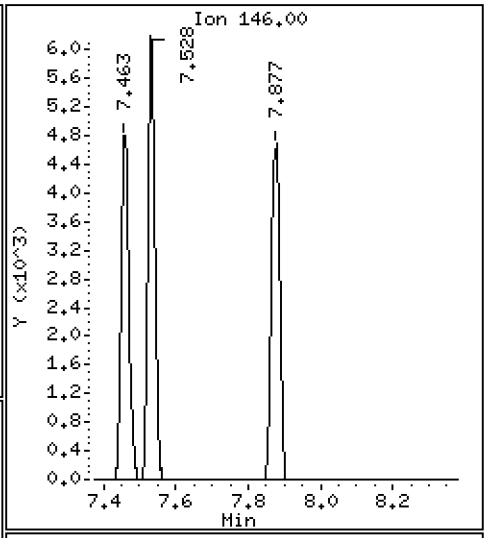
Sample Info: VSTD00.5;;1;1;8;;;

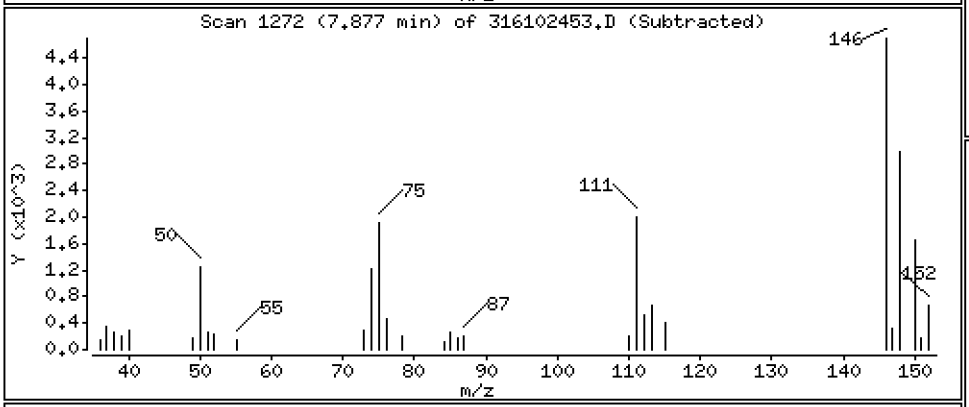
Purge Volume: 5.0 Operator: CJG

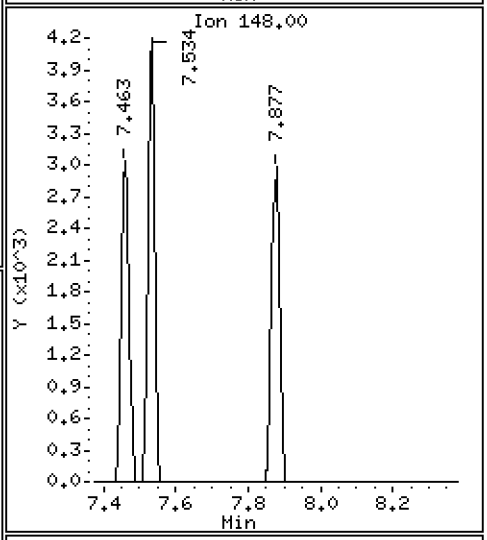
Column phase: DB-VRX Column diameter: 0.25

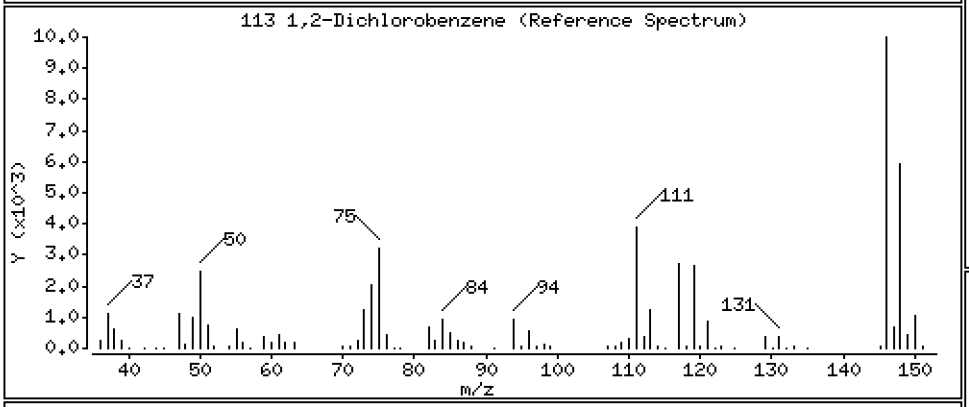
113 1,2-Dichlorobenzene Concentration: 0.754170 ug/L

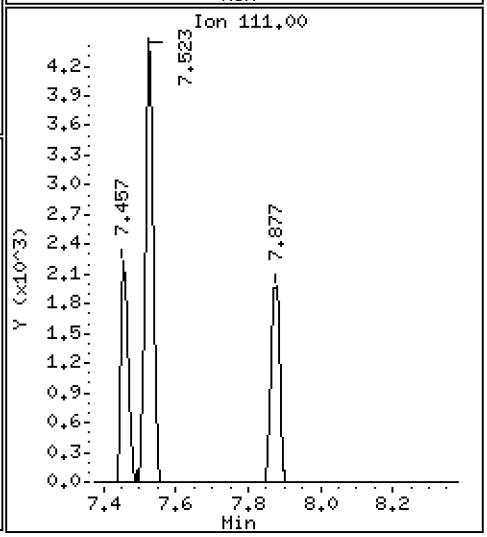


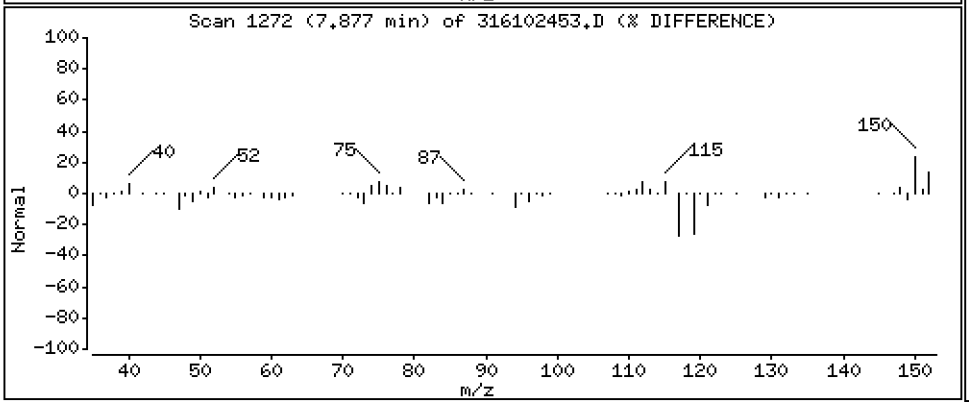












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 114

Date : 24-OCT-2016 23:25

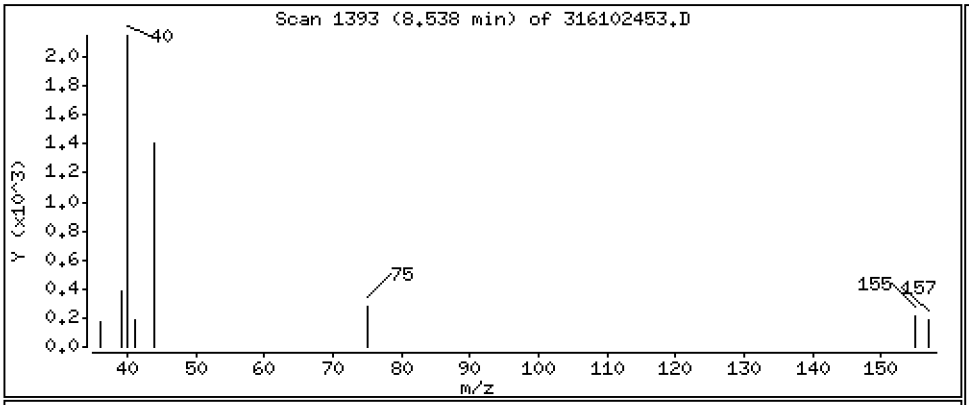
Client ID: Instrument: ms03.i

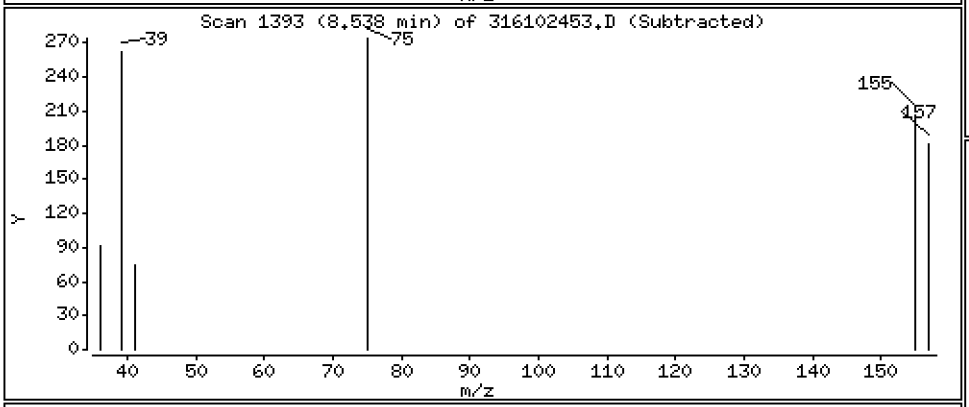
Sample Info: VSTD00.5;;1;1;8;;;

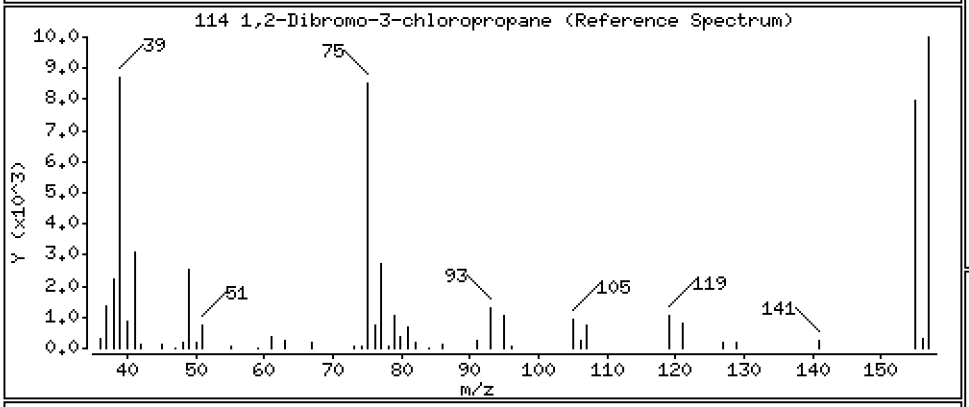
Purge Volume: 5.0 Operator: CJG

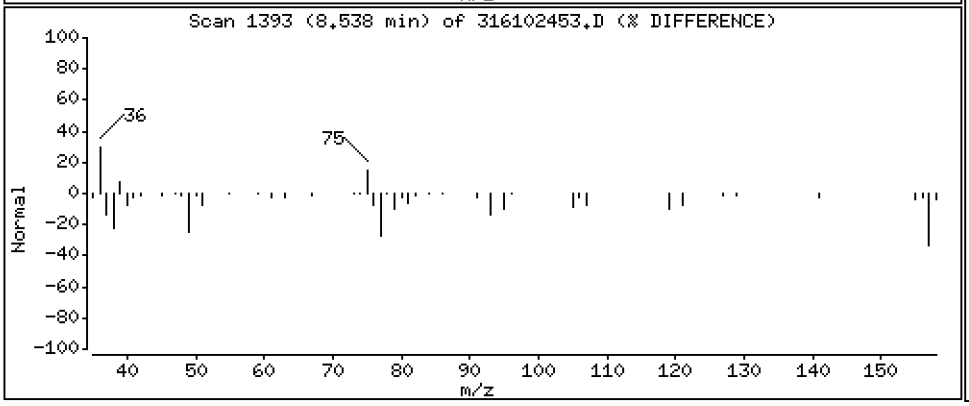
Column phase: DB-VRX Column diameter: 0.25

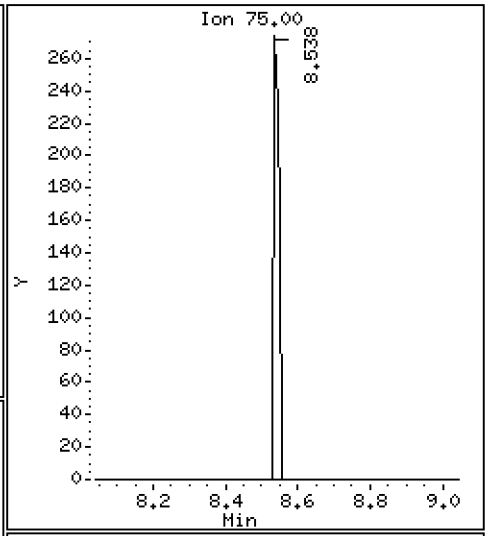
114 1,2-Dibromo-3-chloropropane Concentration: 0.317138 ug/L

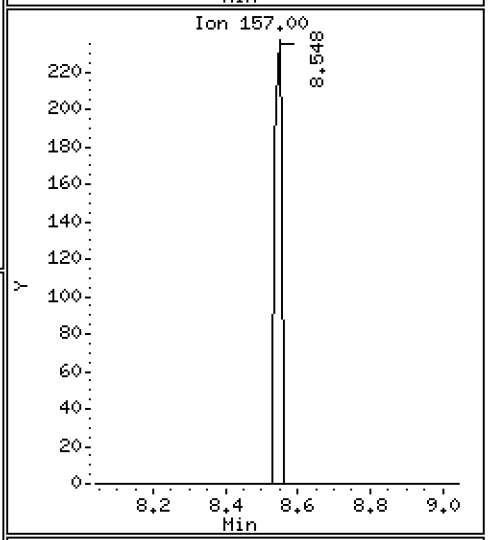


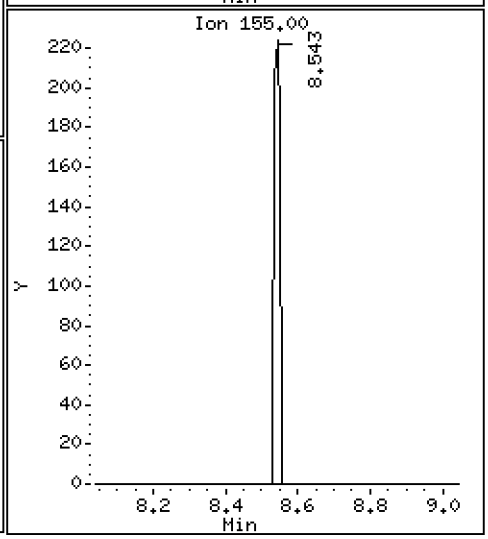












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 115

Date : 24-OCT-2016 23:25

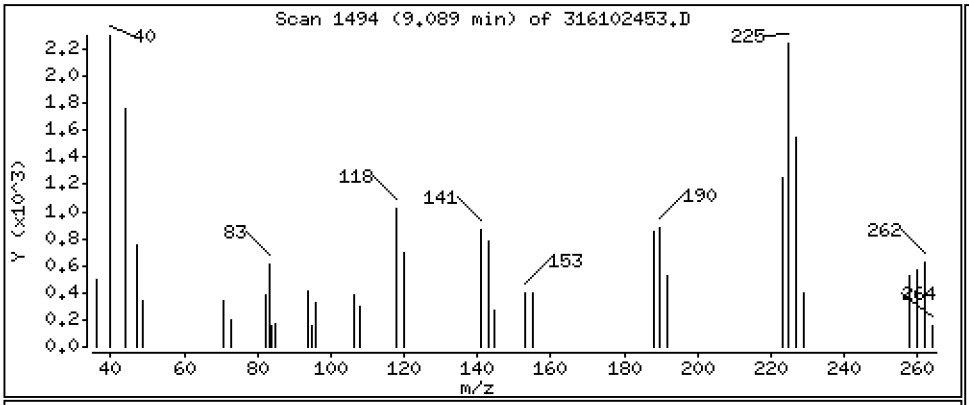
Client ID: Instrument: ms03.i

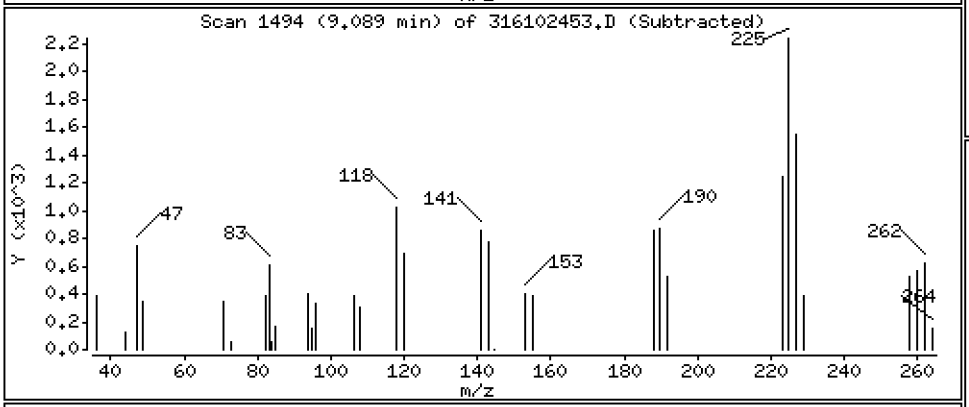
Sample Info: VSTD00.5;;1;1;8;;;

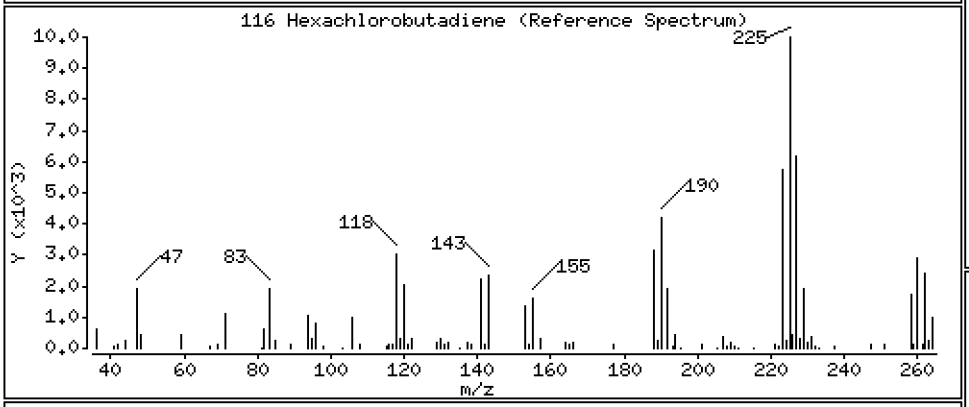
Purge Volume: 5.0 Operator: CJG

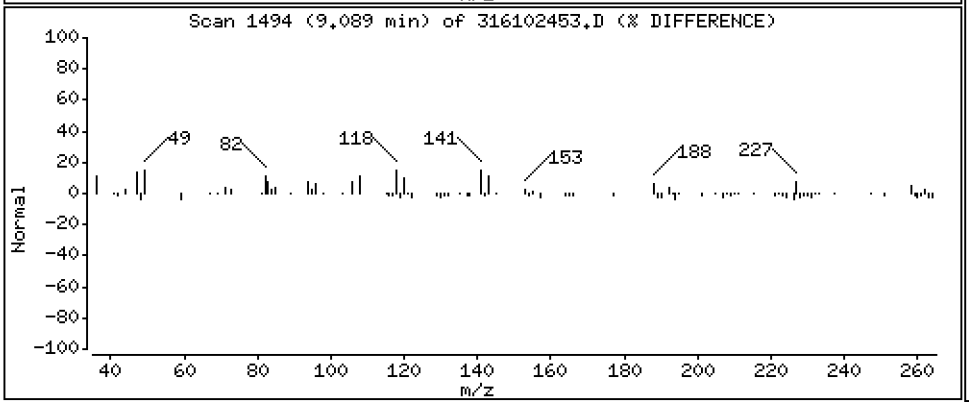
Column phase: DB-VRX Column diameter: 0.25

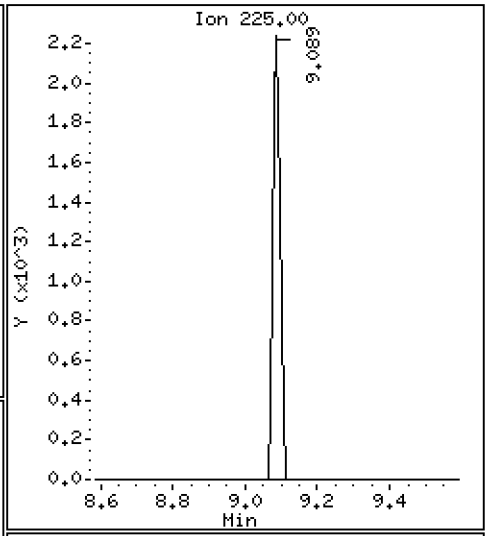
116 Hexachlorobutadiene Concentration: 1.65608 ug/L

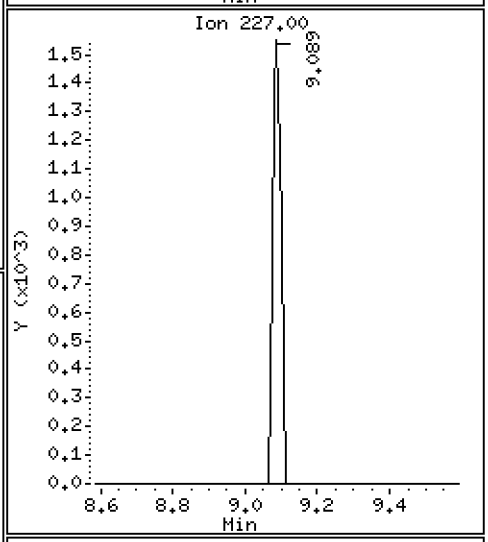


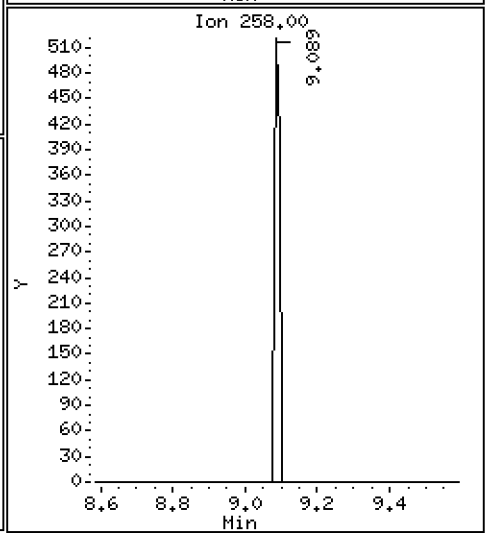












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 116

Date : 24-OCT-2016 23:25

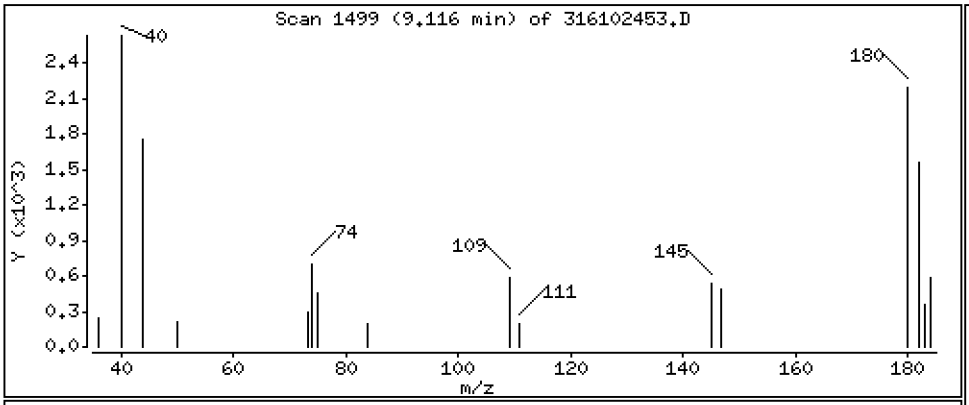
Client ID: Instrument: ms03.i

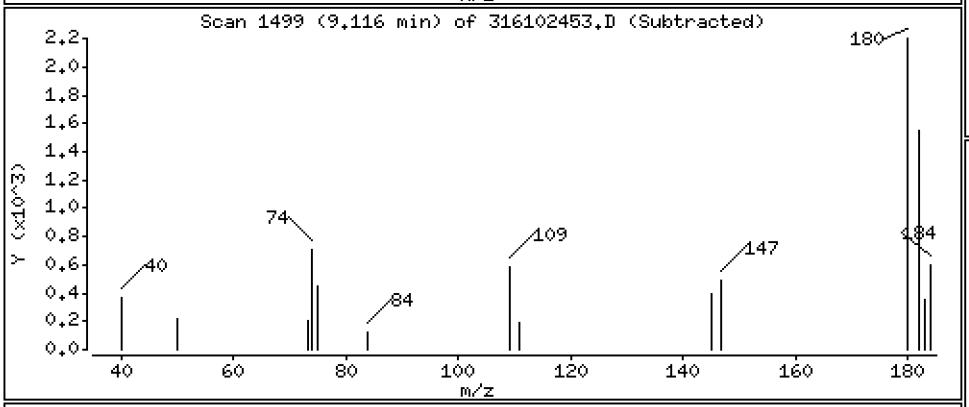
Sample Info: VSTD00.5;;1;1;8;;;

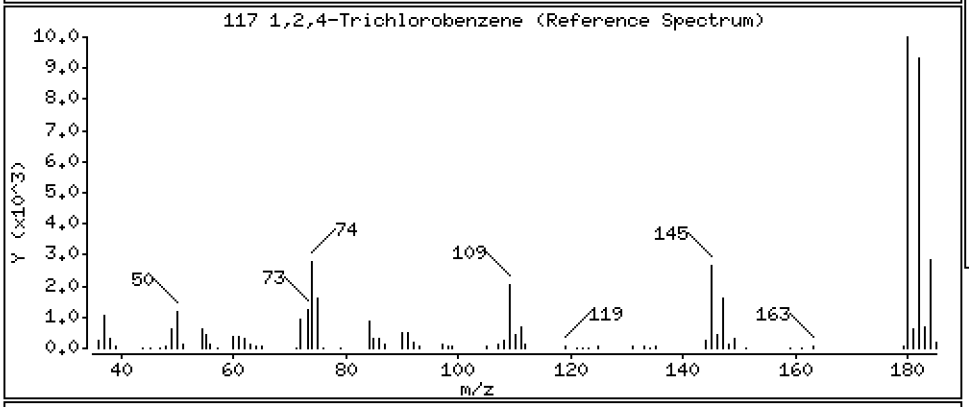
Purge Volume: 5.0 Operator: CJG

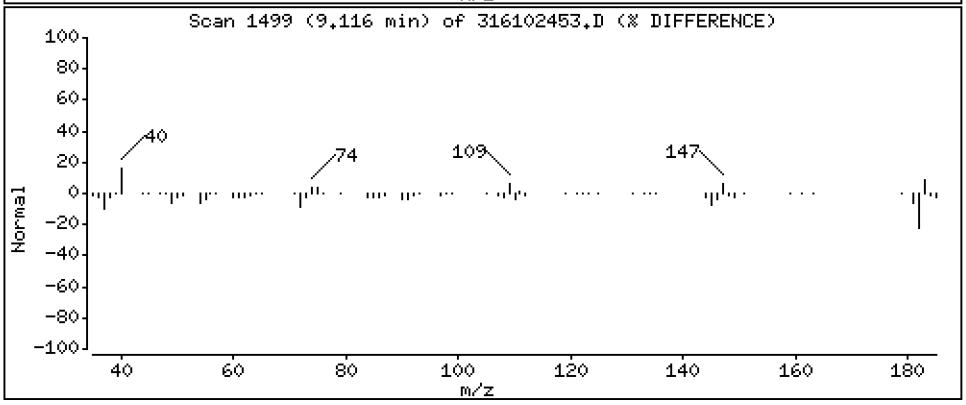
Column phase: DB-VRX Column diameter: 0.25

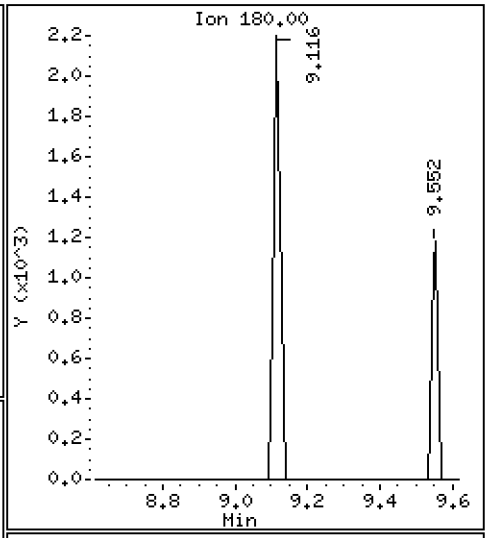
117 1,2,4-Trichlorobenzene Concentration: 0.682631 ug/L

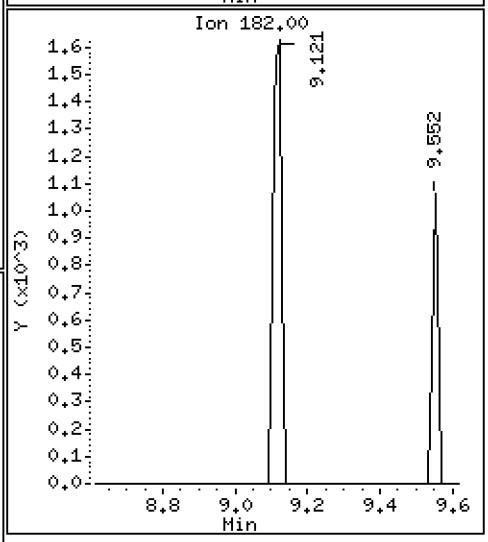












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 117

Date : 24-OCT-2016 23:25

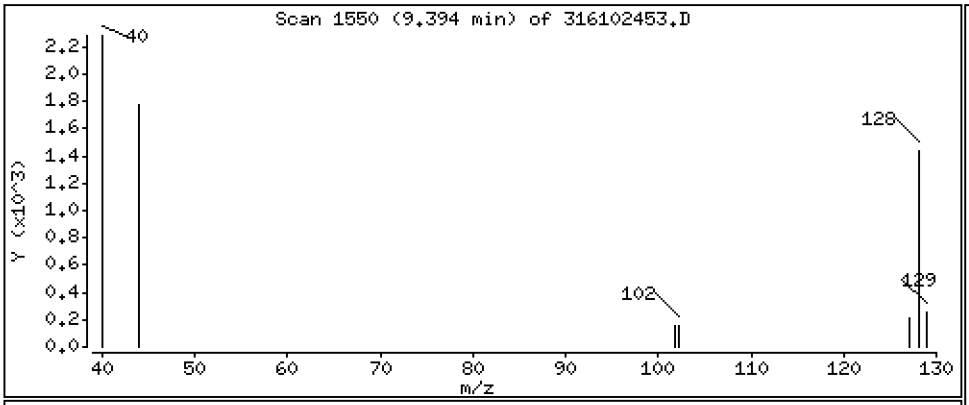
Client ID: Instrument: ms03.i

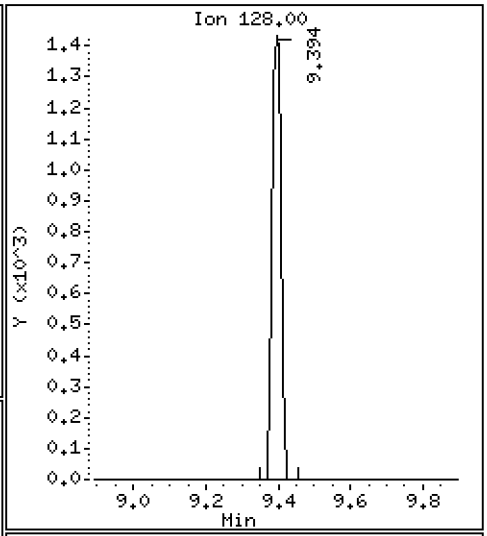
Sample Info: VSTD00.5;;1;1;8;;;

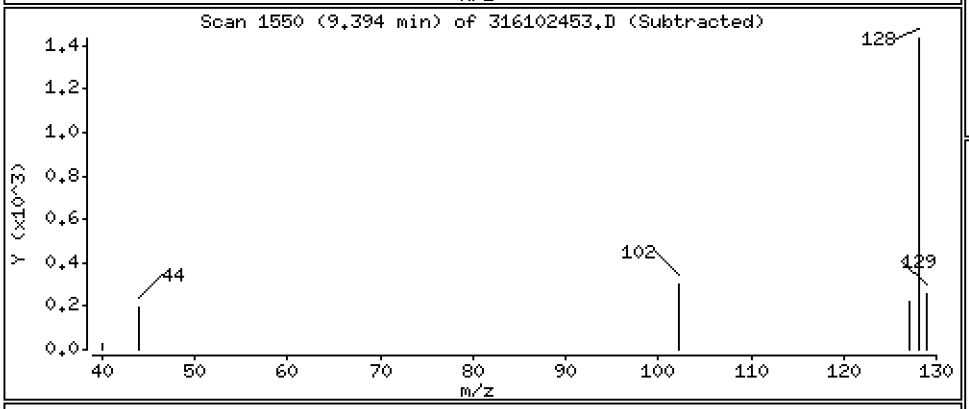
Purge Volume: 5.0 Operator: CJG

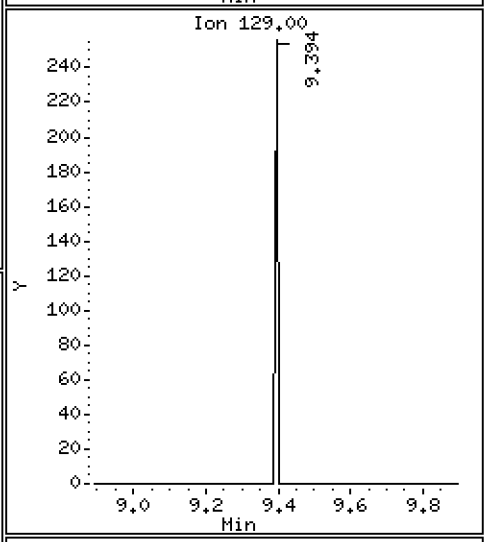
Column phase: DB-VRX Column diameter: 0.25

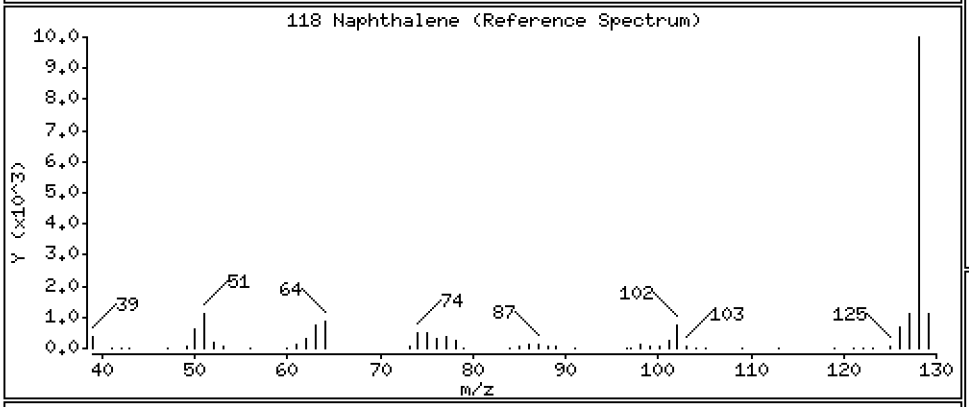
118 Naphthalene Concentration: 0.343677 ug/L

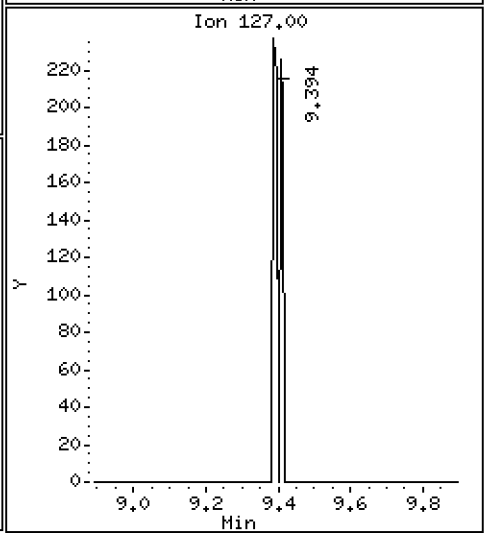


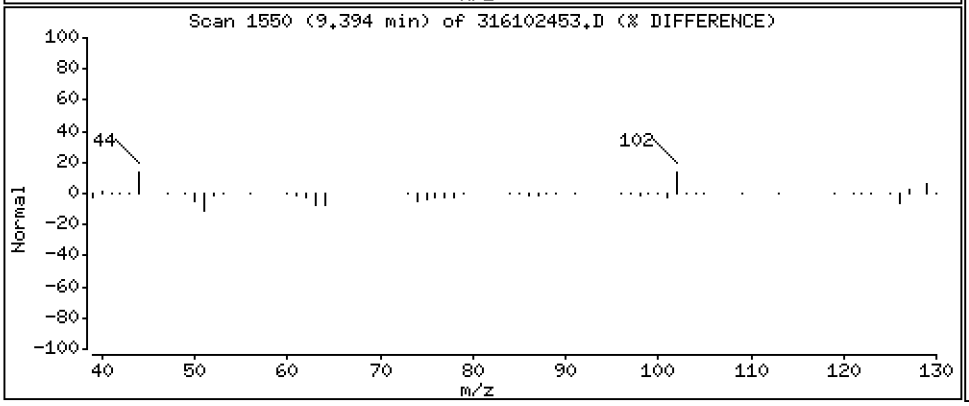












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102453.D Page 118

Date : 24-OCT-2016 23:25

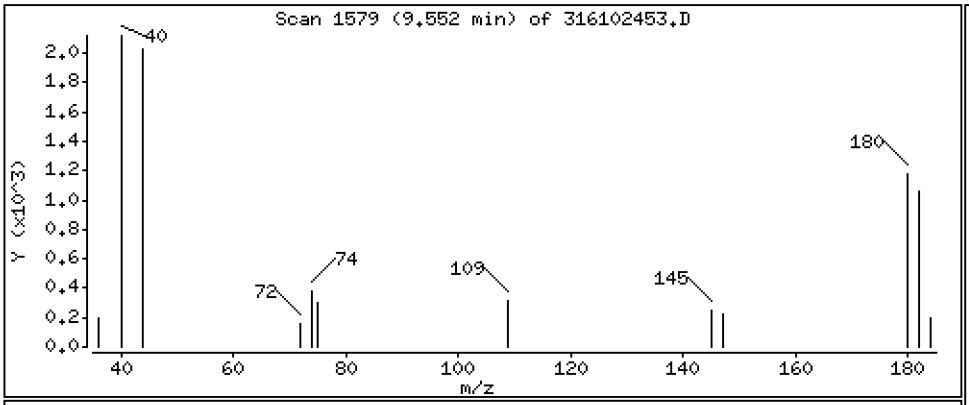
Client ID: Instrument: ms03.i

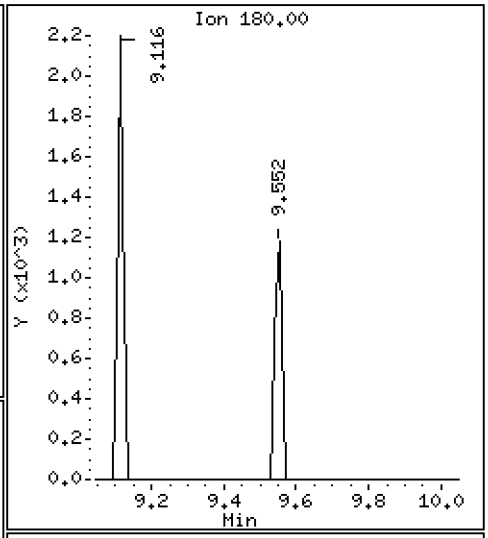
Sample Info: VSTD00.5;;1;1;8;;;

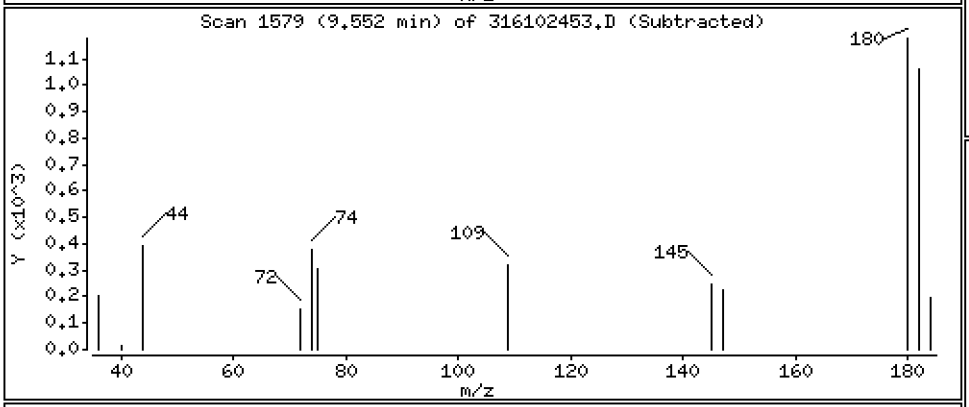
Purge Volume: 5.0 Operator: CJG

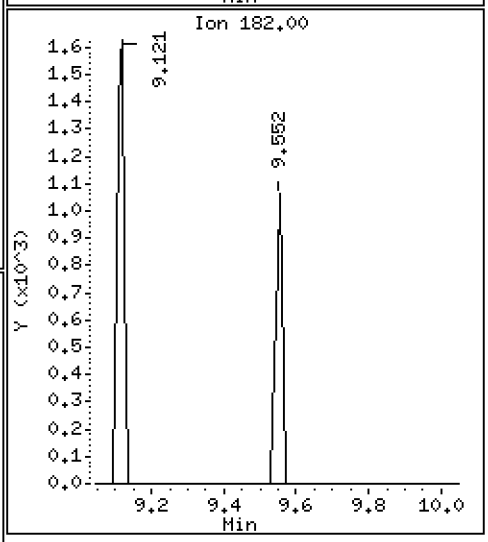
Column phase: DB-VRX Column diameter: 0.25

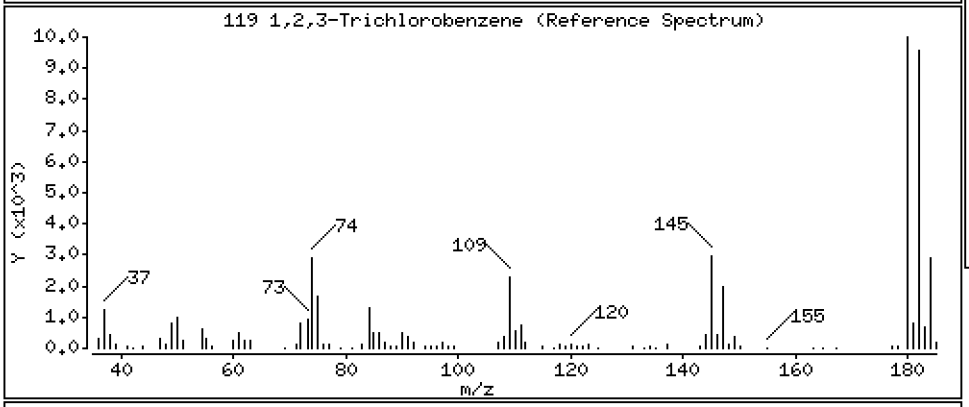
119 1,2,3-Trichlorobenzene Concentration: 0.626011 ug/L

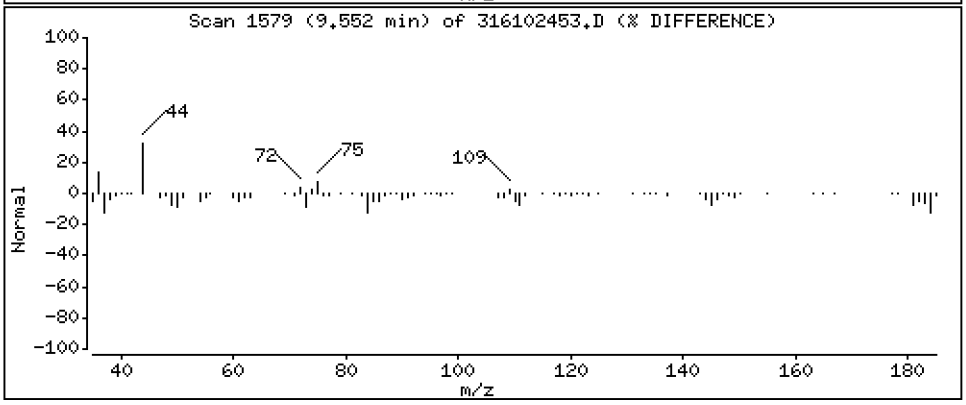








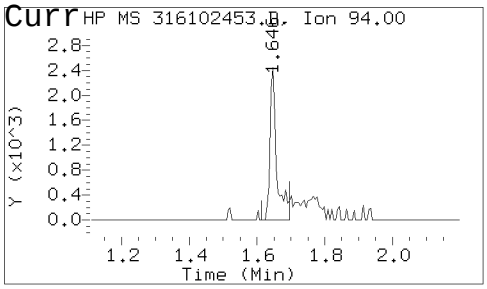


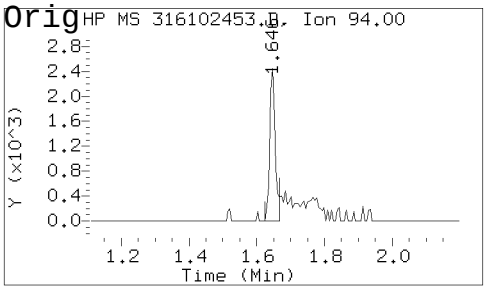


MANUAL INTEGRATION REPORT

Report Date: 10/25/2016 10:11
Lab Sample ID: VSTD00.5 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102453.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102453.D
Injection Date: 24-OCT-2016 23:25 Operator: CJG

Bromomethane

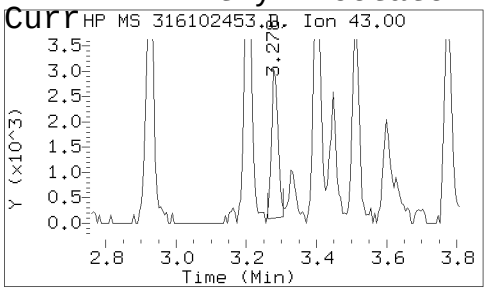


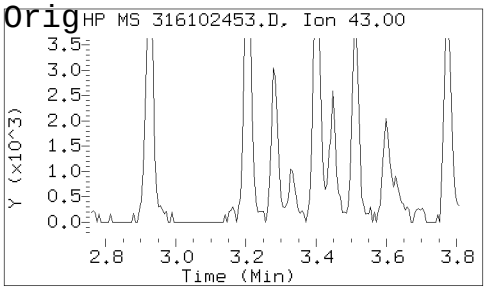


Curr. Area: 3402
Orig. Area: 2827

Curr. ON-COL: 0.875039
Orig. ON-COL: 0.530441

Ethyl Acetate

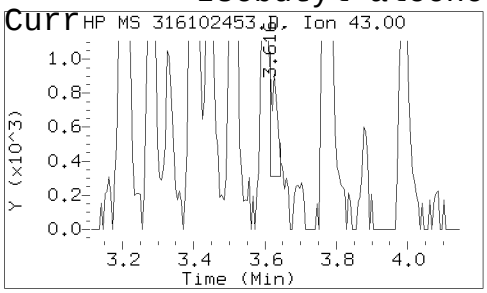


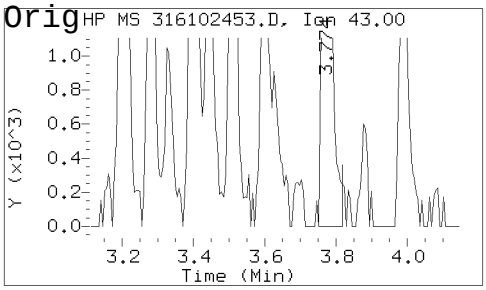


Curr. Area: 3827
Orig. Area: 0

Curr. ON-COL: 0.534638
Orig. ON-COL: 0.000000

Isobutyl alcohol

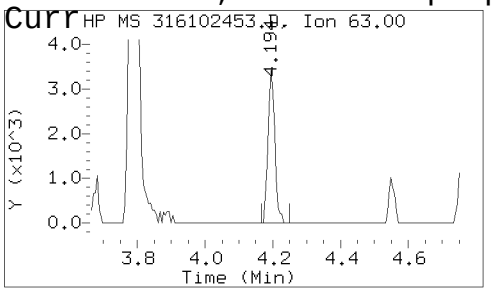


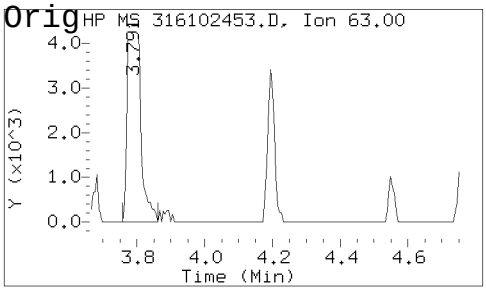


Curr. Area: 763
Orig. Area: 6779

Curr. ON-COL: 4.90820
Orig. ON-COL: 18.0236

1,2-Dichloropropane

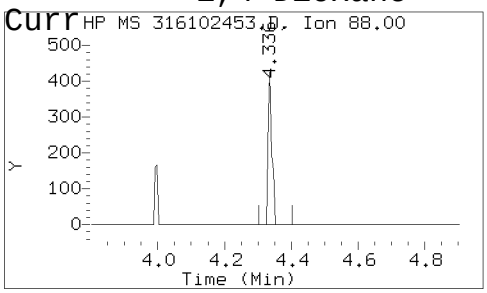


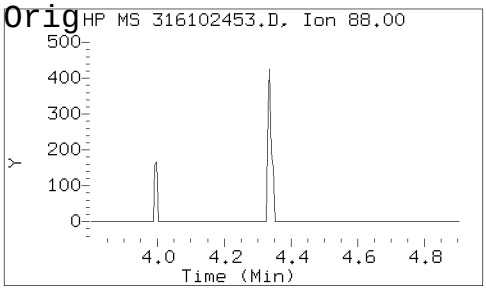


Curr. Area: 4810
Orig. Area: 39610

Curr. ON-COL: 0.541575
Orig. ON-COL: 2.08956

1,4-Dioxane





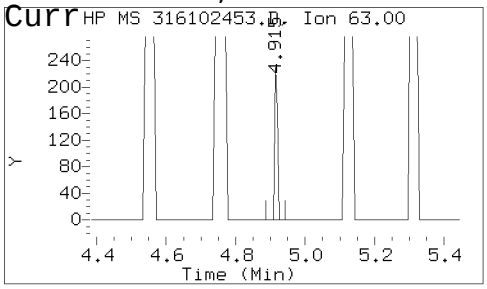
Curr. Area: 354
Orig. Area: 0

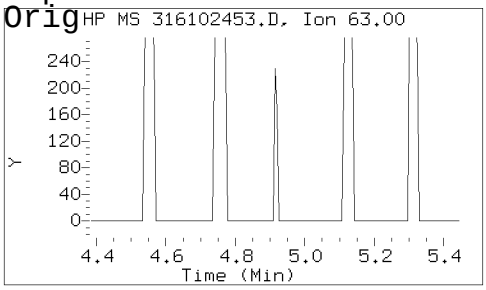
Curr. ON-COL: 10.8705
Orig. ON-COL: 0.000000

MANUAL INTEGRATION REPORT

Report Date: 10/25/2016 10:11
Lab Sample ID: VSTD00.5 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102453.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102453.D
Injection Date: 24-OCT-2016 23:25 Operator: CJG

1,1-Dichloro-2-Propanone

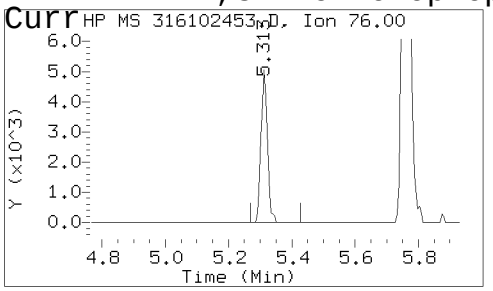
Curr 

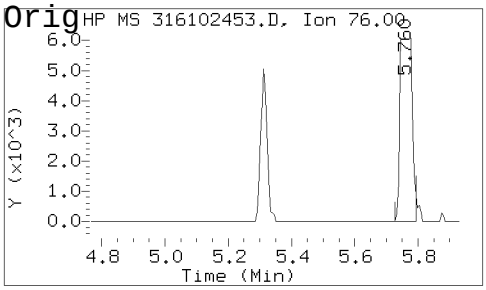
Orig 

Curr. Area: 129
Orig. Area: 0

Curr. ON-COL: 1.02720
Orig. ON-COL: 0.000000

1,3-Dichloropropane

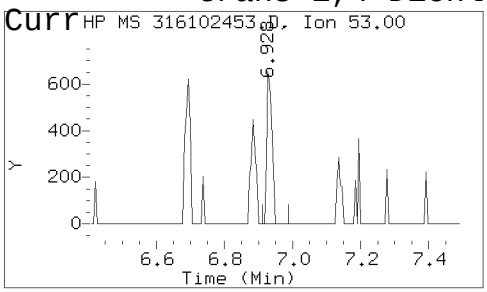
Curr 

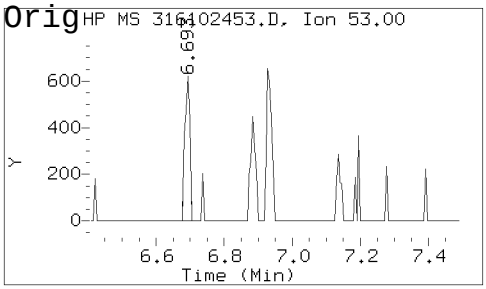
Orig 

Curr. Area: 7066
Orig. Area: 43339

Curr. ON-COL: 0.621572
Orig. ON-COL: 1.92877

trans-1,4-Dichloro-2-butene

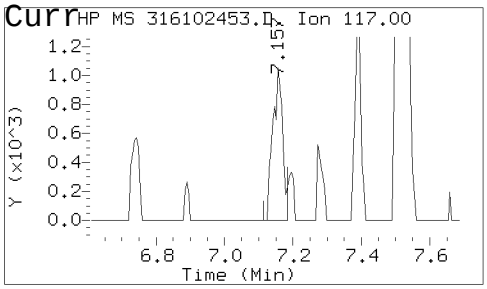
Curr 

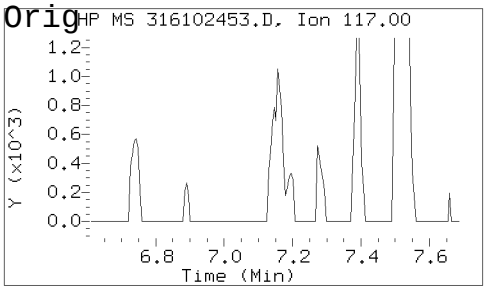
Orig 

Curr. Area: 715
Orig. Area: 617

Curr. ON-COL: 0.414560
Orig. ON-COL: 0.388499

Pentachloroethane

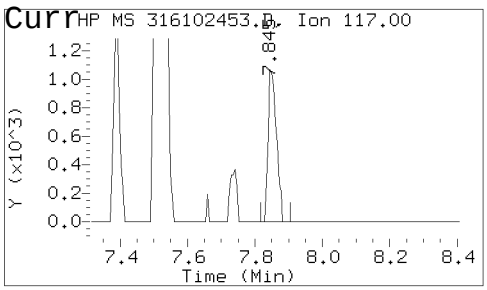
Curr 

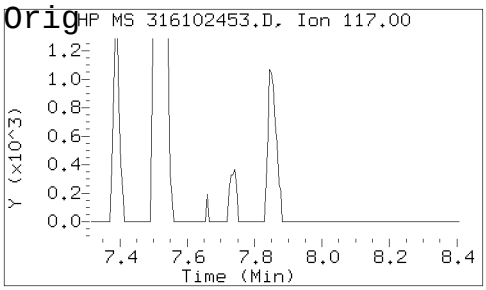
Orig 

Curr. Area: 2156
Orig. Area: 0

Curr. ON-COL: 0.574449
Orig. ON-COL: 0.000000

Hexachloroethane

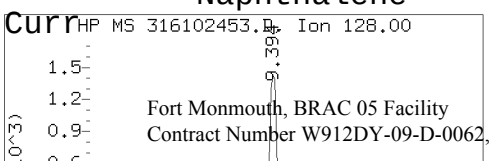
Curr 

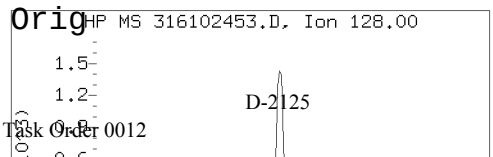
Orig 

Curr. Area: 1865
Orig. Area: 0

Curr. ON-COL: 0.665106
Orig. ON-COL: 0.000000

Naphthalene

Curr 

Orig 

Curr. Area: 2136
Orig. Area: 0

UNASSIGNED PEAK REPORT

Report Date: 10/25/2016 10:11
Lab Sample ID: VSTD00.5 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102453.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102453.D
Injection Date: 24-OCT-2016 23:25 Operator: CJG

Data File: 316102454.D Page 1
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610245
Lab Smp Id: 1234
Inj Date : 24-OCT-2016 23:46
Operator : CJG Inst ID: ms03.i
Smp Info : 1234;;1;1;1;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b0
Meth Date : 25-Oct-2016 10:10 joshua Quant Type: ISTD
Cal Date : 24-OCT-2016 23:46 Cal File: 316102454.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: ALMDTW7062

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.259	(0.332)	28161	1.00000	2.35320	
2 Chloromethane	50	1.389	1.390	(0.367)	24946	1.00000	2.28774	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	27881	1.00000	2.24657	
4 Bromomethane	94	1.646	1.646	(0.434)	6707	1.00000	1.76167(QM)	H
5 Chloroethane	64	1.722	1.723	(0.454)	17520	1.00000	2.36008	
6 Pentane	41	1.798	1.794	(0.475)	8829	1.00000	1.37517(a)	
7 Trichlorofluoromethane	101	1.804	1.799	(0.476)	32639	1.00000	2.58823	
8 Dichlorofluoromethane	67	1.831	1.826	(0.483)	20095	1.00000	1.22998	
9 Ethyl Ether	74	1.968	1.968	(0.519)	6547	1.00000	1.22649	
10 1,1-Dichloroethene	61	2.093	2.088	(0.552)	13532	1.00000	1.19455	
11 Freon 113	101	2.104	2.105	(0.555)	8369	1.00000	1.39887	
12 Carbon Disulfide	76	2.120	2.121	(0.560)	21699	1.00000	1.07202	
13 Iodomethane	127	2.180	2.181	(0.575)	565	1.00000	3.22654(Q)	
14 Acrolein	56	2.273	2.274	(0.600)	12084	10.0000	10.6701(a)	
15 Isopropyl Alcohol	45	2.339	2.334	(0.617)	1714	5.00000	6.57498(a)	
16 3-Chloro-1-propene	41	2.344	2.345	(0.619)	10706	1.00000	0.964410(a)	
17 Methylene Chloride	84	2.404	2.405	(0.634)	15500	1.00000	0.866807(a)	
18 Acetone	58	2.426	2.427	(0.640)	3548	5.00000	5.97017(aQ)	
19 Methyl acetate	74	2.486	2.481	(0.656)	1409	1.00000	1.15925(aQ)	
20 trans-1,2-Dichloroethene	61	2.486	2.487	(0.656)	13106	1.00000	1.17397	
21 Hexane	57	2.519	2.519	(0.665)	18456	1.00000	1.15589	

Data File: 316102454.D Page 2
Report Date: 25-Oct-2016 10:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.535	2.530	(0.669)	21258	1.00000	1.04728	
	23 tert.- Butyl Alcohol	59	2.568	2.563	(0.678)	2013	5.00000	4.66272(a)	
	24 Acetonitrile	41	2.682	2.683	(0.708)	4684	5.00000	6.32664(a)	
	25 Diisopropyl ether	45	2.721	2.721	(0.718)	26821	1.00000	0.958541(a)	
	26 Chloroprene	53	2.797	2.798	(0.738)	11761	1.00000	1.03710	
	27 1,1-Dichloroethane	63	2.813	2.814	(0.742)	17097	1.00000	1.16489	
	28 Acrylonitrile	53	2.846	2.841	(0.751)	15703	5.00000	5.66367	
	29 Ethyl tert-butyl ether	59	2.912	2.912	(0.768)	21854	1.00000	0.917357(a)	
	30 n-Propanol	41	2.912	2.912	(0.768)	6529	10.0000	12.1090(aQ)	
	31 Vinyl Acetate	86	2.928	2.929	(0.773)	1086	1.00000	0.670580(aQ)	
	32 cis-1,2-Dichloroethene	61	3.097	3.098	(0.817)	12910	1.00000	1.13768	
	33 2,2-Dichloropropane	77	3.163	3.158	(0.834)	10360	1.00000	1.10813	
	34 Bromochloromethane	128	3.206	3.207	(0.846)	3716	1.00000	1.09318(Q)	
	35 Cyclohexane	84	3.212	3.212	(0.847)	14139	1.00000	1.29498	
	36 Chloroform	83	3.233	3.234	(0.853)	23400	1.00000	1.63130	
	37 Ethyl Acetate	43	3.283	3.278	(0.866)	6242	1.00000	0.893259(aM)	H
	38 Methyl acrylate	55	3.293	3.294	(0.869)	6569	1.00000	0.984186(a)	
	39 Carbon Tetrachloride	117	3.321	3.321	(0.876)	7950	1.00000	1.04749	
	40 Tetrahydrofuran	42	3.332	3.327	(0.879)	10956	5.00000	5.15183	
$	41 Dibromofluoromethane	113	3.337	3.338	(0.881)	6731	1.00000	1.13942	
	42 1,1,1-Trichloroethane	97	3.359	3.360	(0.886)	11025	1.00000	1.04332	
	43 2-Butanone	72	3.397	3.398	(0.896)	4673	5.00000	5.23071(a)	
	44 1,1-Dichloropropene	75	3.424	3.425	(0.904)	12039	1.00000	1.13880	
	45 1-Chlorobutane	41	3.446	3.447	(0.909)	10859	1.00000	1.26116	
	46 Heptane	71	3.512	3.512	(0.927)	5644	1.00000	1.13200	
	47 Benzene	78	3.566	3.567	(0.941)	38049	1.00000	1.13684	
	48 Propionitrile	54	3.577	3.578	(0.944)	5612	5.00000	5.50744(a)	
	49 Methacrylonitrile	67	3.588	3.583	(0.947)	3317	1.00000	1.07968(a)	
	50 tert-Amyl methyl ether	73	3.604	3.600	(0.951)	17555	1.00000	0.948067(a)	
$	51 1,2-Dichloroethane-d4	65	3.637	3.638	(0.960)	10444	1.00000	1.28700	
	52 1,2-Dichloroethane	62	3.675	3.676	(0.970)	11325	1.00000	1.12467	
	53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	1537	5.00000	4.53623(aQ)	
	54 Isobutyl alcohol	43	3.632	3.632	(0.958)	1844	10.0000	12.1183(aQM)	H
*	55 Fluorobenzene	96	3.790	3.791	(1.000)	978534	30.0000		
	56 Diisobutylene	57	3.790	3.796	(1.000)	60082	1.00000	2.98675(Q)	
	57 Trichloroethene	95	3.883	3.883	(1.024)	9474	1.00000	1.28343	
	58 Methyl cyclohexane	83	3.883	3.883	(0.674)	14684	1.00000	1.32866	
	59 tert-Amyl Ethylether	59	3.986	3.987	(1.052)	15338	1.00000	0.904491(a)	
	60 Dibromomethane	93	4.139	4.139	(1.092)	4191	1.00000	1.00138	
	61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	9117	1.00000	1.05159	
	62 Bromodichloromethane	83	4.221	4.222	(1.114)	8133	1.00000	0.898278(a)	
	63 Methyl methacrylate	41	4.292	4.293	(1.132)	5449	1.00000	0.842816(a)	
	64 1,4-Dioxane	88	4.341	4.336	(1.145)	693	25.0000	21.8040(aQM)	H
	65 2-Chloroethylvinyl ether	63	4.548	4.549	(1.200)	2558	1.00000	0.660755(a)	
	66 cis-1,3-Dichloropropene	75	4.608	4.604	(0.800)	9123	1.00000	0.802804(a)	
	67 Octane	85	4.608	4.609	(0.800)	3273	1.00000	1.03334(a)	
$	68 Toluene-d8	98	4.723	4.724	(0.820)	29934	1.00000	1.21487	
	69 Toluene	92	4.756	4.756	(0.826)	19678	1.00000	1.10036	
	70 Chloroacetonitrile	48	4.827	4.833	(0.838)	518	5.00000	3.06203(aQ)	
	71 2-Nitropropane	41	4.909	4.909	(0.852)	5124	5.00000	3.96633(a)	
	72 1,1-Dichloro-2-Propanone	63	4.919	4.920	(0.854)	298	5.00000	2.39886(aQM)	H
	73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.986	(0.865)	27495	5.00000	3.96142(a)	
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	6184	1.00000	1.37100	
	75 trans-1,3-Dichloropropene	75	5.012	5.013	(0.870)	7617	1.00000	0.763050(a)	

Data File: 316102454.D Page 3
Report Date: 25-Oct-2016 10:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.094	5.095	(0.884)	6902	1.00000	0.748664(a)	
	77 1,1,2-Trichloroethane	83	5.127	5.122	(0.890)	5930	1.00000	1.12909	
	78 Chlorodibromomethane	129	5.252	5.247	(0.912)	4151	1.00000	0.799283(a)	
	79 1,3-Dichloropropane	76	5.312	5.313	(0.922)	12677	1.00000	1.12767(QM)	H
	80 1,2-Dibromoethane	107	5.416	5.422	(0.940)	5276	1.00000	0.979669(a)	
	81 2-Hexanone	43	5.541	5.542	(0.962)	17724	5.00000	3.92995(a)	
	82 1-Chlorohexane	91	5.738	5.739	(0.996)	8899	1.00000	0.980863(aQ)	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	400564	30.0000		
	84 Chlorobenzene	112	5.771	5.777	(1.002)	21668	1.00000	1.23546	
	85 Ethylbenzene	106	5.782	5.782	(1.004)	11478	1.00000	1.19109	
	86 1,1,1,2-Tetrachloroethane	131	5.809	5.815	(1.009)	5101	1.00000	0.975800(a)	
	87 mp-Xylene	106	5.880	5.880	(1.021)	24919	2.00000	2.13355	
	88 o-Xylene	106	6.196	6.197	(1.076)	10436	1.00000	0.940086(a)	
	89 Styrene	104	6.234	6.235	(0.829)	16015	1.00000	0.928161(a)	
	90 Bromoform	173	6.262	6.262	(0.833)	1802	1.00000	0.859227(a)	
	91 Isopropylbenzene	105	6.425	6.426	(0.855)	27743	1.00000	1.05547	
$	92 4-Bromofluorobenzene	174	6.649	6.650	(0.885)	5671	1.00000	1.19714	
	93 Bromobenzene	156	6.731	6.732	(0.895)	6210	1.00000	1.16866	
	94 n-Propylbenzene	120	6.736	6.737	(0.896)	7058	1.00000	1.05421(Q)	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.792	(0.903)	7182	1.00000	1.12588	
	96 o-Chlorotoluene	91	6.867	6.868	(0.914)	21576	1.00000	1.04174	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.916)	18445	1.00000	0.909183(a)	
	98 1,2,3-Trichloropropane	110	6.906	6.906	(0.919)	2402	1.00000	1.29728(a)	
	99 trans-1,4-Dichloro-2-butene	53	6.927	6.933	(0.922)	1538	1.00000	0.895508(aQ)	
M	100 1,2-Dichloroethene, Total	61				26016	2.00000	2.31165	
	101 p-Chlorotoluene	91	6.993	6.994	(0.930)	20219	1.00000	1.05903	
	102 tert-Butylbenzene	134	7.140	7.141	(0.950)	4657	1.00000	1.07524(aQ)	
	103 Pentachloroethane	117	7.157	7.163	(0.952)	3917	1.00000	1.04802(Q)	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.957)	17697	1.00000	0.875311(a)	
	105 sec-Butylbenzene	105	7.277	7.277	(0.968)	24740	1.00000	1.00797(a)	
	106 p-Isopropyltoluene	134	7.391	7.392	(0.983)	4412	1.00000	0.916838(a)	
	107 1,3-Dichlorobenzene	146	7.462	7.463	(0.993)	11834	1.00000	1.24143	
*	108 1,4-Dichlorobenzene-d4	152	7.517	7.523	(1.000)	229317	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	7.533	7.534	(1.002)	12384	1.00000	1.29832(Q)	
	110 Benzyl Chloride	126	7.740	7.736	(1.030)	644	1.00000	0.547489(aQ)	
	111 n-Butylbenzene	134	7.729	7.736	(1.028)	3950	1.00000	0.964575(aQ)	
	112 Hexachloroethane	117	7.850	7.850	(1.044)	2948	1.00000	1.05552(Q)	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.048)	10357	1.00000	1.20902	
	114 1,2-Dibromo-3-chloropropane	75	8.537	8.542	(1.136)	553	1.00000	0.814872(aQ)	
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	9.083	9.089	(1.208)	2803	1.00000	1.75584(a)	
	117 1,2,4-Trichlorobenzene	180	9.115	9.116	(1.213)	3676	1.00000	1.03635(a)	
	118 Naphthalene	128	9.388	9.394	(1.249)	3065	1.00000	0.495082(a)	
	119 1,2,3-Trichlorobenzene	180	9.546	9.547	(1.270)	2227	1.00000	0.993244(a)	
M	120 1,3-Dichloropropene, Total	75				16740	2.00000	1.56585	
M	121 Total Xylenes	106				35355	3.00000	3.07364	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 316102454.D Page 4
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 25-OCT-2016
Lab File ID: 316102454.D Calibration Time: 00:52
Lab Smp Id: 1234
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: CJG
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	978534	-3.42
83 Chlorobenzene-d5	432864	216432	865728	400564	-7.46
108 1,4-Dichlorobenze	273837	136919	547674	229317	-16.26

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102454.D Page 5
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1234
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	2.35320	
74-87-3	Chloromethane	2.28774	
75-01-4	Vinyl Chloride	2.24657	
74-83-9	Bromomethane	1.76167	
75-00-3	Chloroethane	2.36008	
109-66-0	Pentane	1.37517	J
75-69-4	Trichlorofluoromethane	2.58823	
75-43-4	Dichlorofluoromethane	1.22998	
60-29-7	Ethyl Ether	1.22649	
75-35-4	1,1-Dichloroethene	1.19455	
76-13-1	Freon 113	1.39887	
75-15-0	Carbon Disulfide	1.07202	
74-88-4	Iodomethane	3.22654	
107-02-8	Acrolein	10.6701	J
67-63-0	Isopropyl Alcohol	6.57498	J
107-05-1	3-Chloro-1-propene	0.964410	J
75-09-2	Methylene Chloride	0.866807	J
67-64-1	Acetone	5.97017	J
79-20-9	Methyl acetate	1.15925	J
156-60-5	trans-1,2-Dichloroethene	1.17397	
110-54-3	Hexane	1.15589	
1634-04-4	Methyl t-Butyl Ether	1.04728	
75-65-0	tert.- Butyl Alcohol	4.66272	J
75-05-8	Acetonitrile	6.32664	J
108-20-3	Diisopropyl ether	0.958541	J
126-99-8	Chloroprene	1.03710	
75-34-3	1,1-Dichloroethane	1.16489	
107-13-1	Acrylonitrile	5.66367	
637-92-3	Ethyl tert-butyl ether	0.917357	J
71-23-8	n-Propanol	12.1090	J
108-05-4	Vinyl Acetate	0.670580	J
156-59-2	cis-1,2-Dichloroethene	1.13768	
594-20-7	2,2-Dichloropropane	1.10813	
74-97-5	Bromochloromethane	1.09318	
110-82-7	Cyclohexane	1.29498	
67-66-3	Chloroform	1.63130	
141-78-6	Ethyl Acetate	0.893259	J
96-33-3	Methyl acrylate	0.984186	J
56-23-5	Carbon Tetrachloride	1.04749	
109-99-9	Tetrahydrofuran	5.15183	
71-55-6	1,1,1-Trichloroethane	1.04332	
78-93-3	2-Butanone	5.23071	J

Data File: 316102454.D Page 6
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1234
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
563-58-6	1,1-Dichloropropene	1.13880	
109-69-3	1-Chlorobutane	1.26116	
142-82-5	Heptane	1.13200	
71-43-2	Benzene	1.13684	
107-12-0	Propionitrile	5.50744	J
126-98-7	Methacrylonitrile	1.07968	J
994-05-8	tert-Amyl methyl ether	0.948067	J
107-06-2	1,2-Dichloroethane	1.12467	
75-85-4	tert-Amyl Alcohol	4.53623	J
78-83-1	Isobutyl alcohol	12.1183	J
107-39-1	Diisobutylene	2.98675	
79-01-6	Trichloroethene	1.28343	
108-87-2	Methyl cyclohexane	1.32866	
919-94-8	tert-Amyl Ethylether	0.904491	J
74-95-3	Dibromomethane	1.00138	
78-87-5	1,2-Dichloropropane	1.05159	
75-27-4	Bromodichloromethane	0.898278	J
80-62-6	Methyl methacrylate	0.842816	J
123-91-1	1,4-Dioxane	21.8040	J
110-75-8	2-Chloroethylvinyl ether	0.660755	J
10061-01-5	cis-1,3-Dichloropropene	0.802804	J
111-65-9	Octane	1.03334	J
108-88-3	Toluene	1.10036	
107-14-2	Chloroacetonitrile	3.06203	J
79-46-9	2-Nitropropane	3.96633	J
513-88-2	1,1-Dichloro-2-Propanone	2.39886	J
108-10-1	4-Methyl-2-Pentanone(MIBK)	3.96142	J
127-18-4	Tetrachloroethene	1.37100	
10061-02-6	trans-1,3-Dichloropropene	0.763050	J
97-63-2	Ethyl Methacrylate	0.748664	J
79-00-5	1,1,2-Trichloroethane	1.12909	
124-48-1	Chlorodibromomethane	0.799283	J
142-28-9	1,3-Dichloropropane	1.12767	
106-93-4	1,2-Dibromoethane	0.979669	J
591-78-6	2-Hexanone	3.92995	J
544-10-5	1-Chlorohexane	0.980863	J
108-90-7	Chlorobenzene	1.23546	
100-41-4	Ethylbenzene	1.19109	
630-20-6	1,1,1,2-Tetrachloroethane	0.975800	J
108383/106423	m-p-Xylene	2.13355	
95-47-6	o-Xylene	0.940086	J
100-42-5	Styrene	0.928161	J

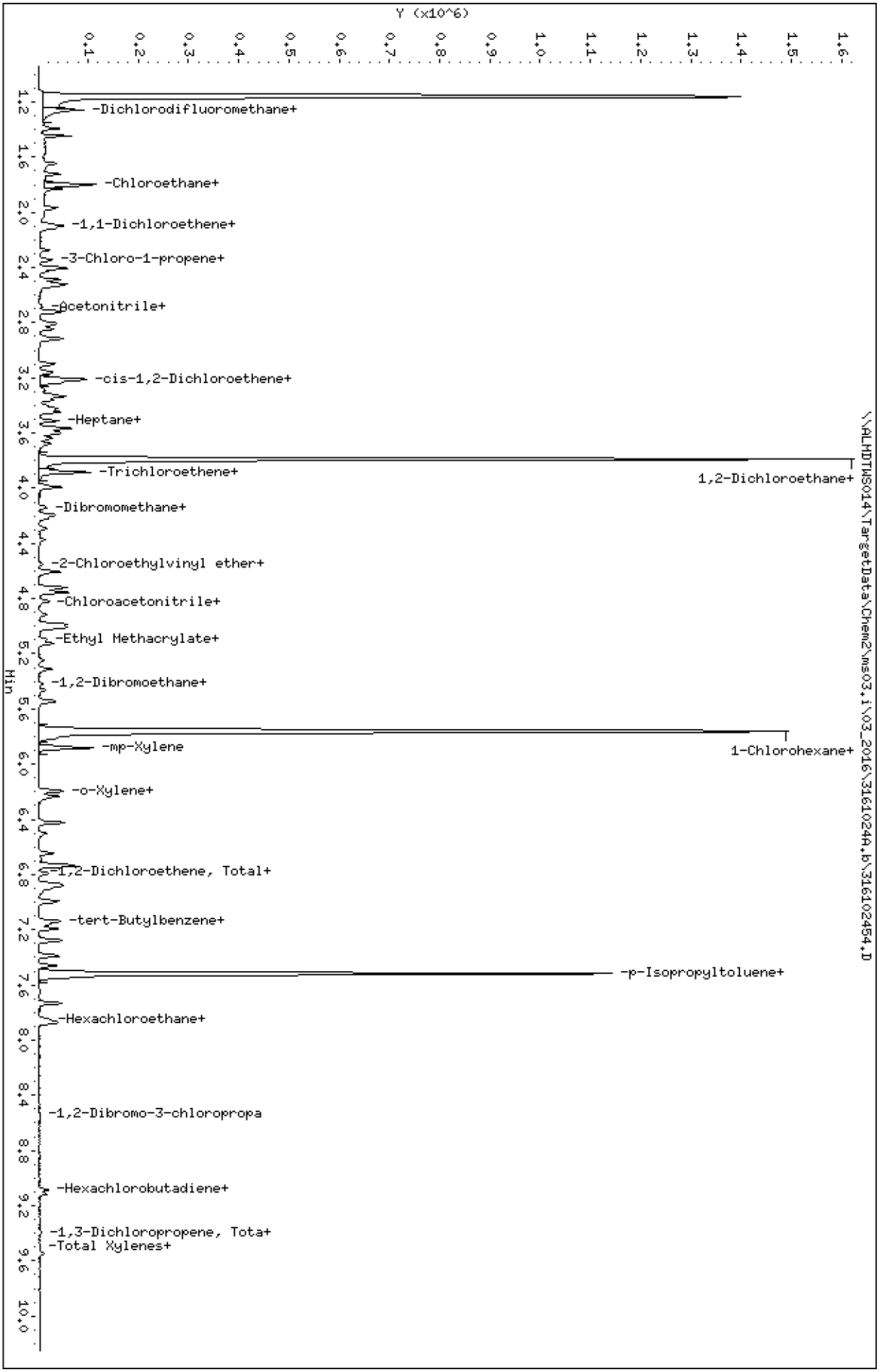
Data File: 316102454.D Page 7
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1234
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-25-2	Bromoform	0.859227	J
98-82-8	Isopropylbenzene	1.05547	
108-86-1	Bromobenzene	1.16866	
103-65-1	n-Propylbenzene	1.05421	
79-34-5	1,1,2,2-Tetrachloroethane	1.12588	
95-49-8	o-Chlorotoluene	1.04174	
108-67-8	1,3,5-Trimethylbenzene	0.909183	J
96-18-4	1,2,3-Trichloropropane	1.29728	J
110-57-6	trans-1,4-Dichloro-2-butene	0.895508	J
540-59-0	1,2-Dichloroethene, Total	2.31165	
106-43-4	p-Chlorotoluene	1.05903	
98-06-6	tert-Butylbenzene	1.07524	J
76-01-7	Pentachloroethane	1.04802	
95-63-6	1,2,4-Trimethylbenzene	0.875311	J
135-98-8	sec-Butylbenzene	1.00797	J
99-87-6	p-Isopropyltoluene	0.916838	J
541-73-1	1,3-Dichlorobenzene	1.24143	
106-46-7	1,4-Dichlorobenzene	1.29832	
100-44-7	Benzyl Chloride	0.547489	J
104-51-8	n-Butylbenzene	0.964575	J
67-72-1	Hexachloroethane	1.05552	
95-50-1	1,2-Dichlorobenzene	1.20902	
96-12-8	1,2-Dibromo-3-chloropropane	0.814872	J
87-68-3	Hexachlorobutadiene	1.75584	J
120-82-1	1,2,4-Trichlorobenzene	1.03635	J
91-20-3	Naphthalene	0.495082	J
87-61-6	1,2,3-Trichlorobenzene	0.993244	J
542-75-6	1,3-Dichloropropene, Total	1.56585	
1330-20-7	Total Xylenes	3.07364	
1868-53-7	Dibromofluoromethane	1.13942	
17060-07-0	1,2-Dichloroethane-d4	1.28700	
2037-26-5	Toluene-d8	1.21487	
460-00-4	4-Bromofluorobenzene	1.19714	


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
Min
1.2
1.6
2.0
2.4
2.8
3.2
3.6
4.0
4.4
4.8
5.2
5.6
6.0
6.4
6.8
7.2
7.6
8.0
8.4
8.8
9.2
9.6
10.0
-Dichlorodifluoromethane+
-Chloroethane+
-1,1-Dichloroethene+
-3-Chloro-1-propene+
-Acetonitrile+
-cis-1,2-Dichloroethene+
-Heptane+
-Trichloroethene+
-Dibromomethane+
-2-Chloroethylvinyl ether+
-Chloroacetonitrile+
-Ethyl Methacrylate+
-1,2-Dibromoethane+
-mp-Xylene
-o-Xylene+
-1,2-Dichloroethene, Total+
-tert-Butylbenzene+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-Hexachlorobutadiene+
-1,3-Dichloropropene, Tota+
-Total Xylenes+
1,2-Dichloroethane+
1-Chlorohexane+
-p-Isopropyltoluene+
\\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S4.D
Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S4.D
Date : 24-OCT-2016 23:46
Client ID:
Sample Info: 1234;;1;1;1;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
Page 8

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 9

Date : 24-OCT-2016 23:46

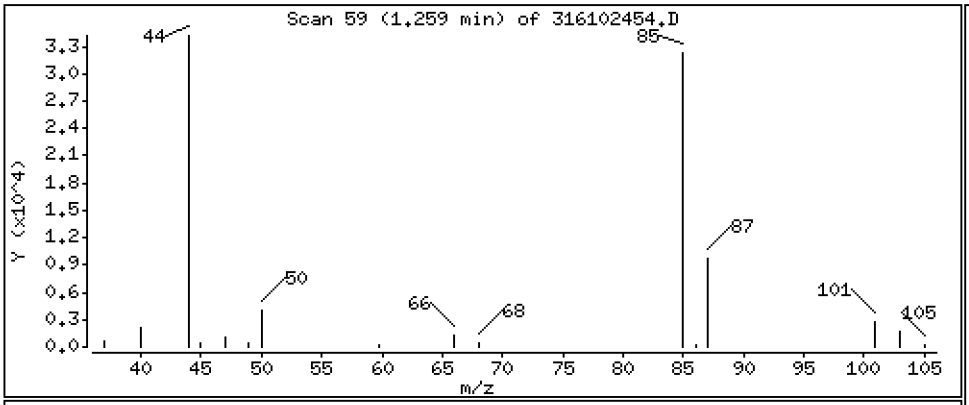
Client ID: Instrument: ms03.i

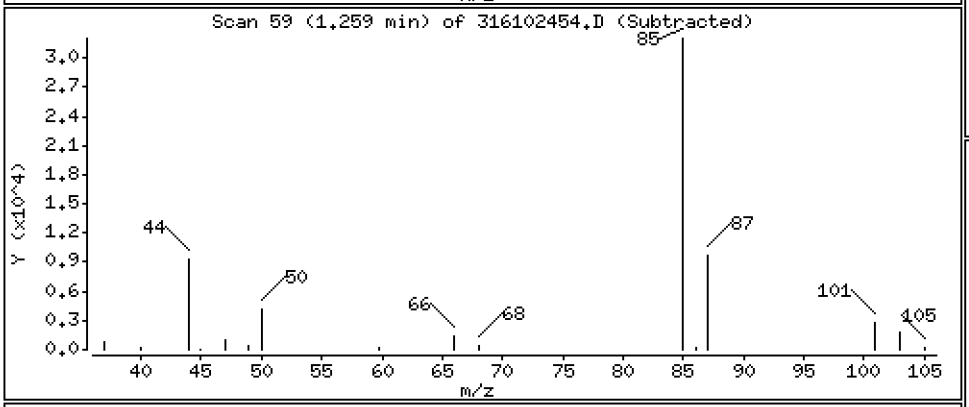
Sample Info: 1234;;1;1;1;;;

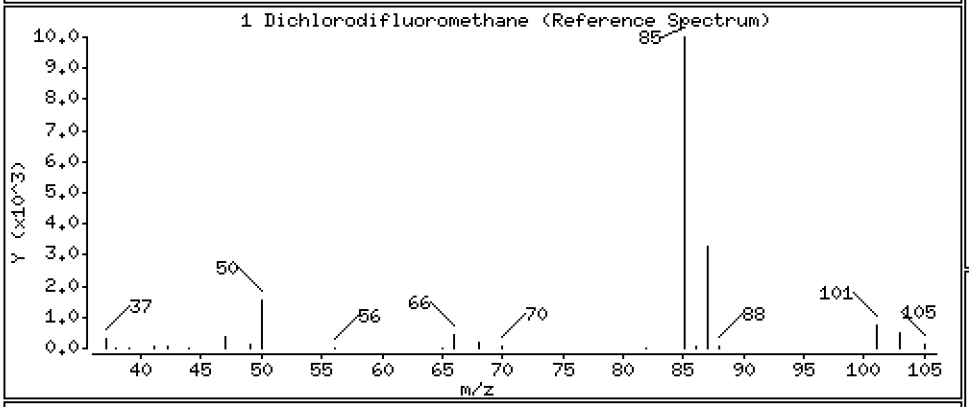
Purge Volume: 5.0 Operator: CJG

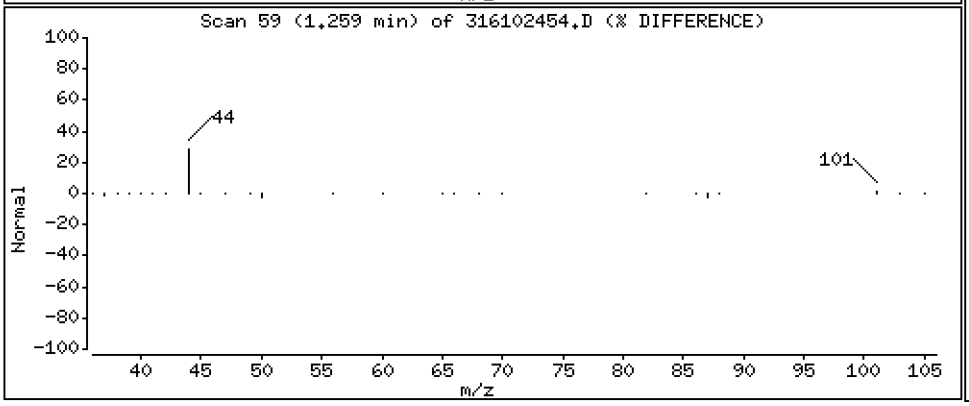
Column phase: DB-VRX Column diameter: 0.25

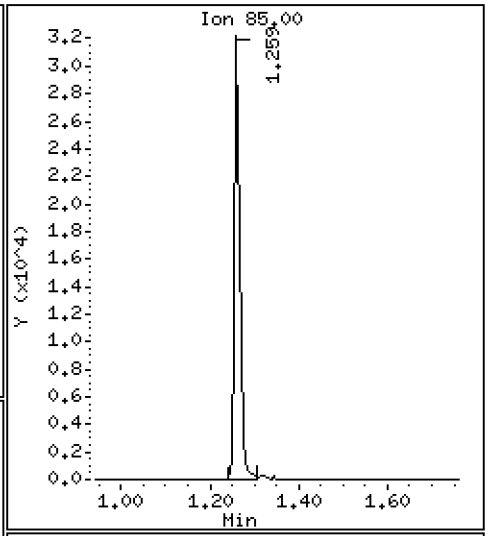
1 Dichlorodifluoromethane Concentration: 2.35320 ug/L

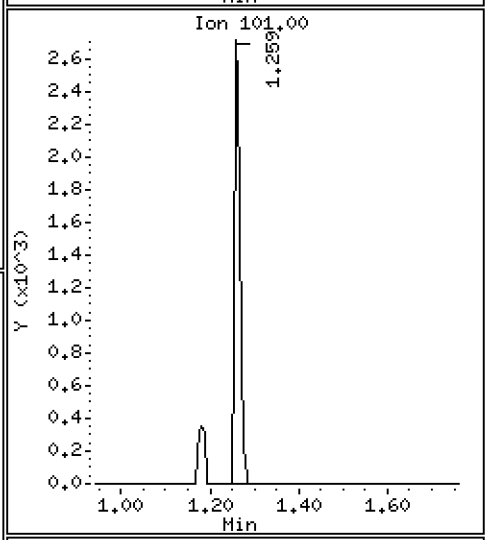


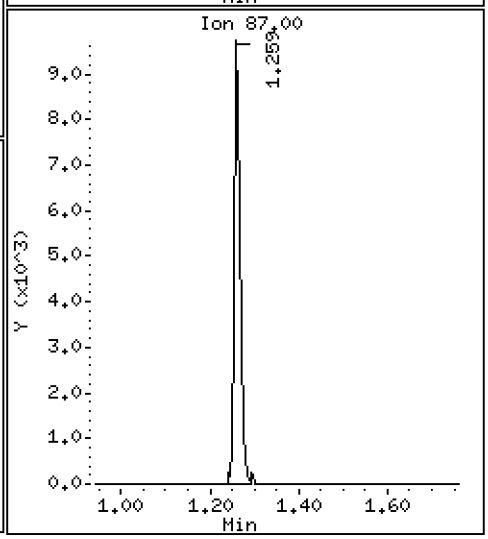












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 10

Date : 24-OCT-2016 23:46

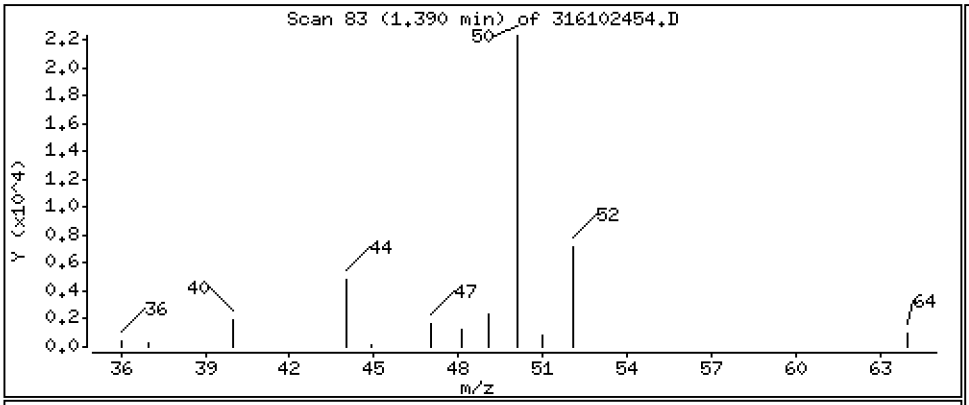
Client ID: Instrument: ms03.i

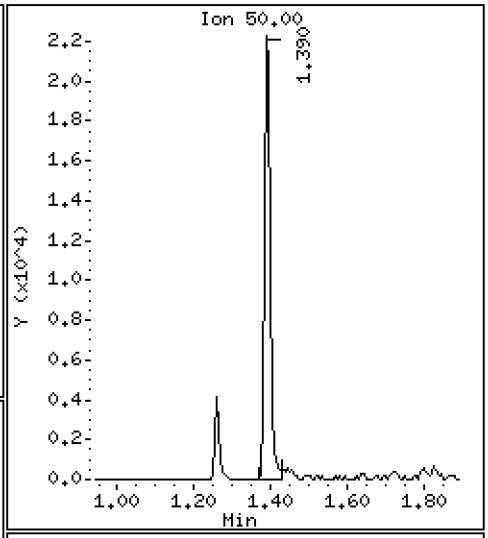
Sample Info: 1234;;1;1;1;;;

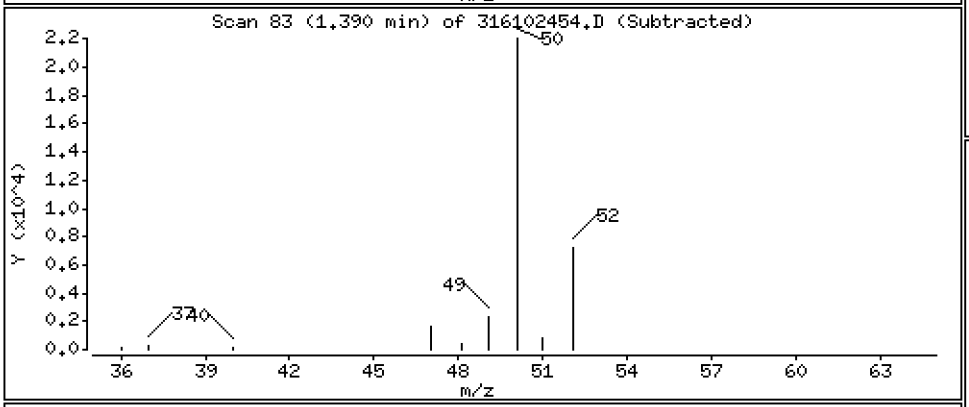
Purge Volume: 5.0 Operator: CJG

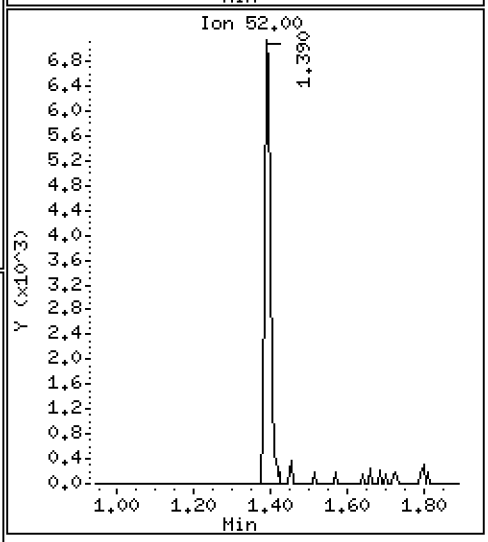
Column phase: DB-VRX Column diameter: 0.25

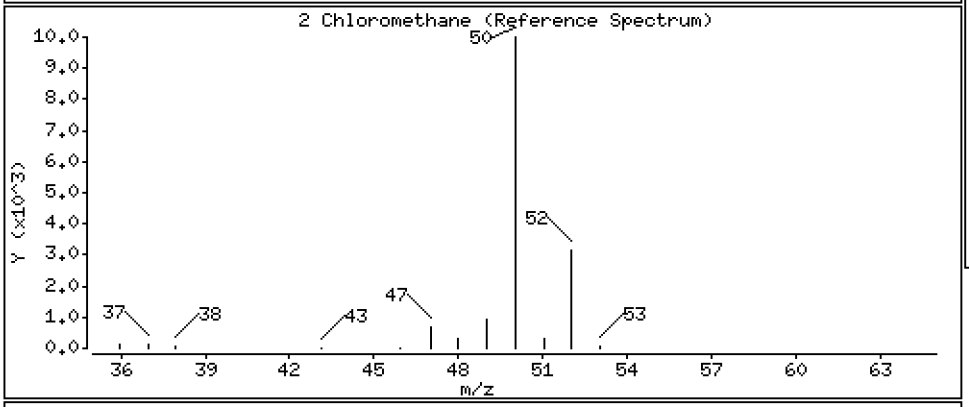
2 Chloromethane Concentration: 2.28774 ug/L

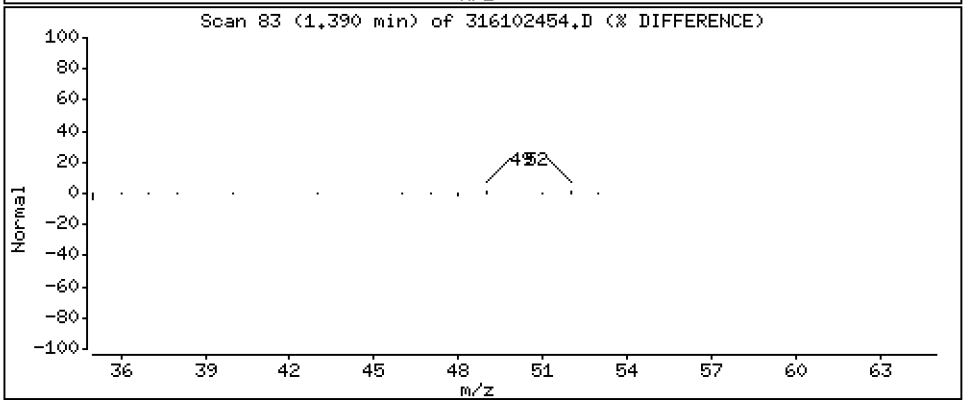












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 11

Date : 24-OCT-2016 23:46

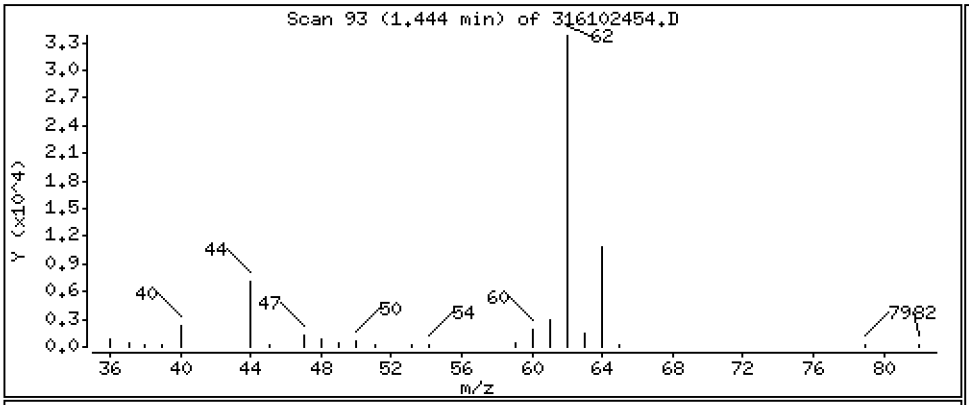
Client ID: Instrument: ms03.i

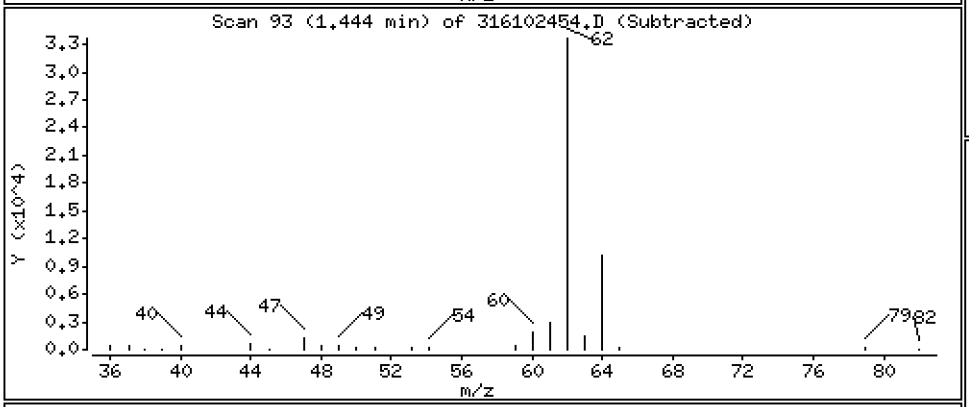
Sample Info: 1234;;1;1;1;;;

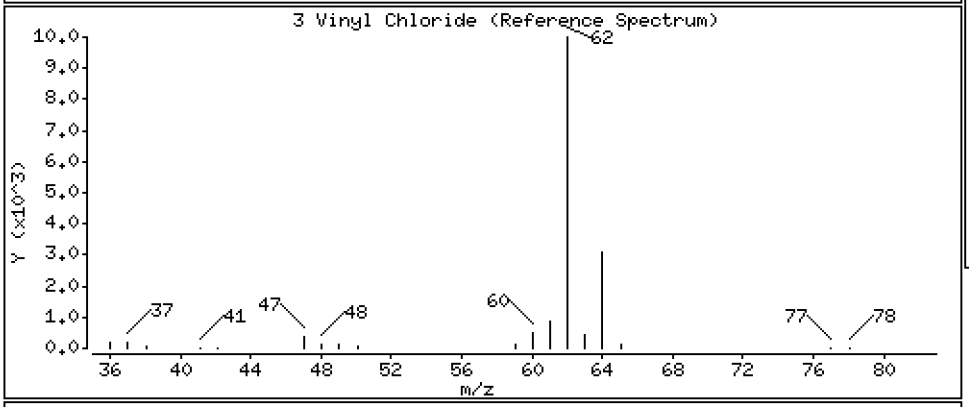
Purge Volume: 5.0 Operator: CJG

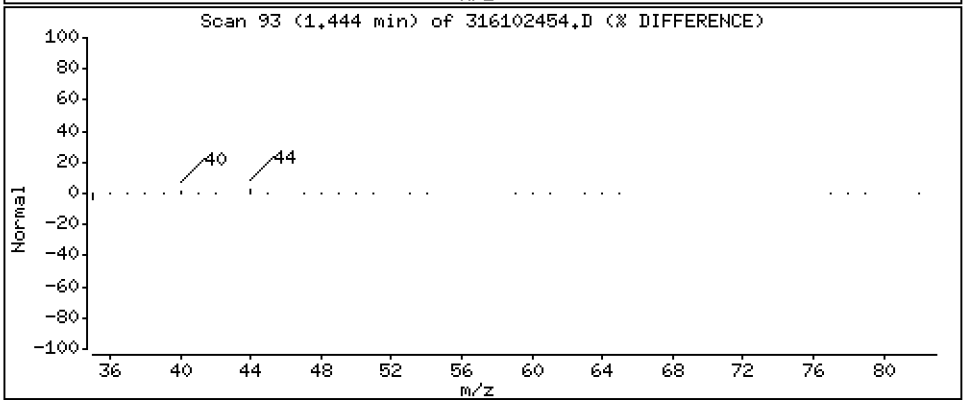
Column phase: DB-VRX Column diameter: 0.25

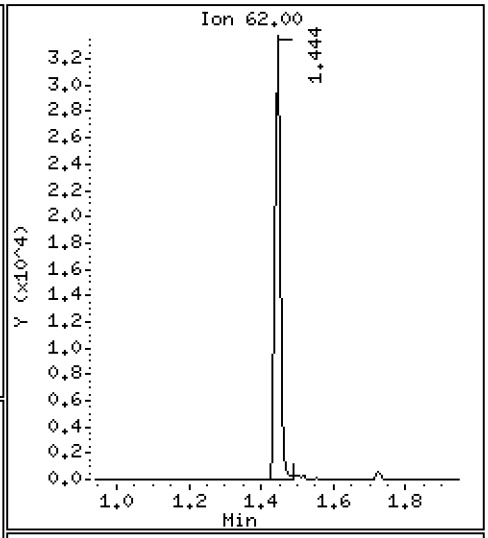
3 Vinyl Chloride Concentration: 2.24657 ug/L

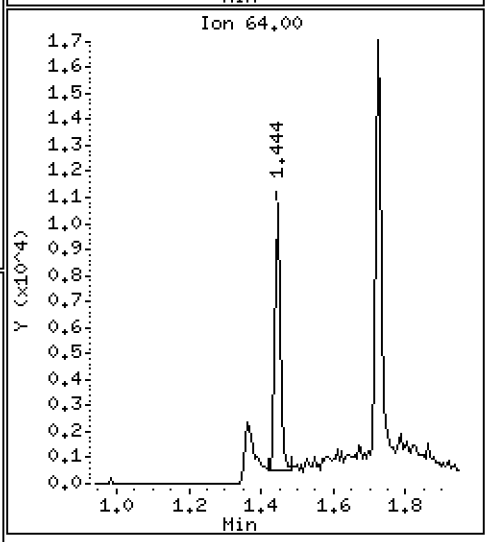












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 12

Date : 24-OCT-2016 23:46

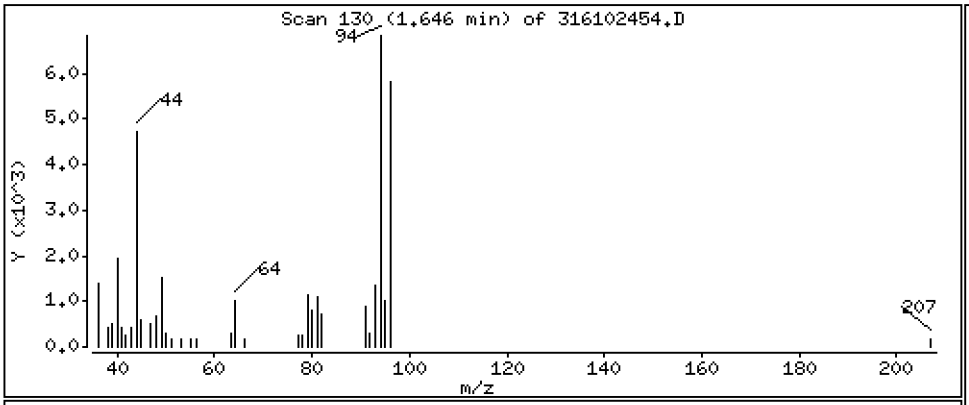
Client ID: Instrument: ms03.i

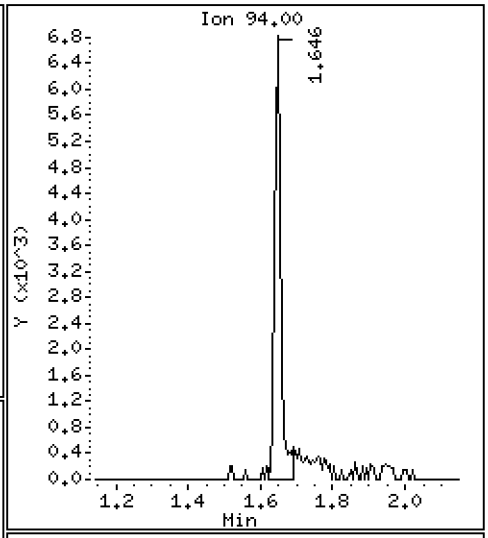
Sample Info: 1234;;1;1;1;;;

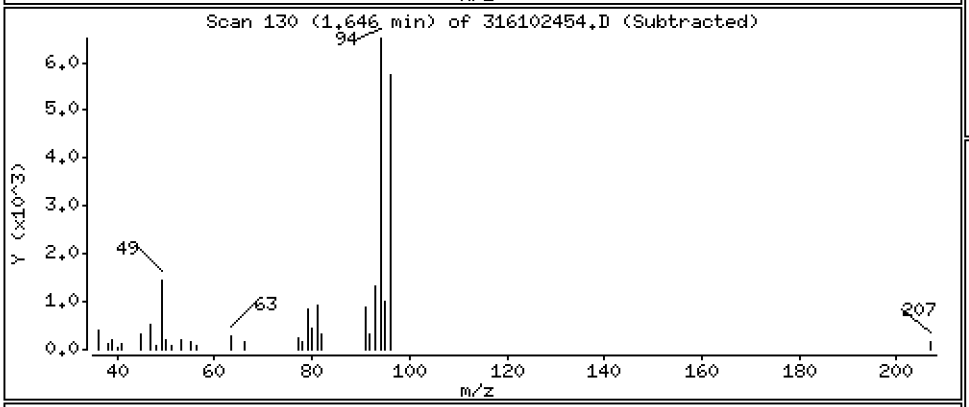
Purge Volume: 5.0 Operator: CJG

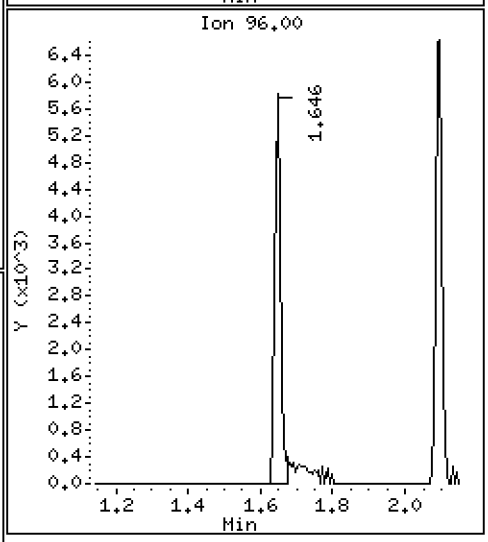
Column phase: DB-VRX Column diameter: 0.25

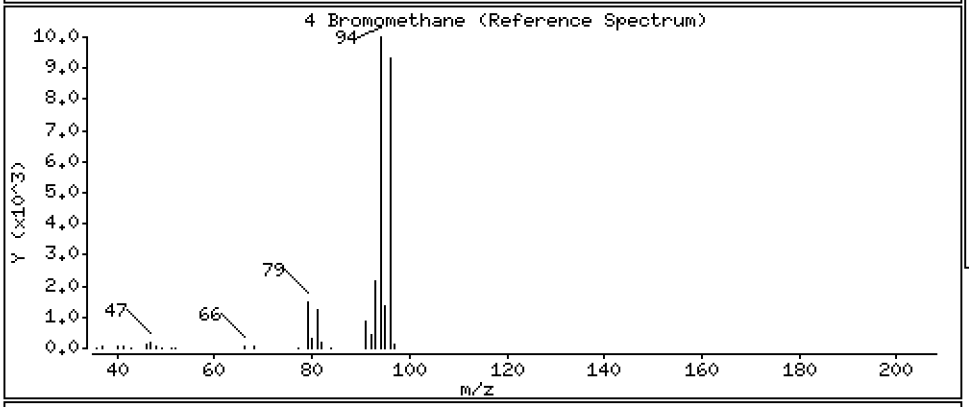
4 Bromomethane Concentration: 1.76167 ug/L

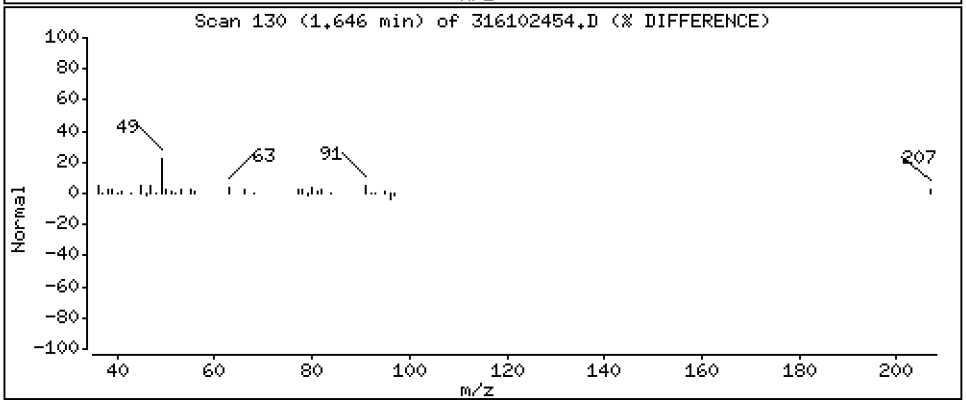












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 13

Date : 24-OCT-2016 23:46

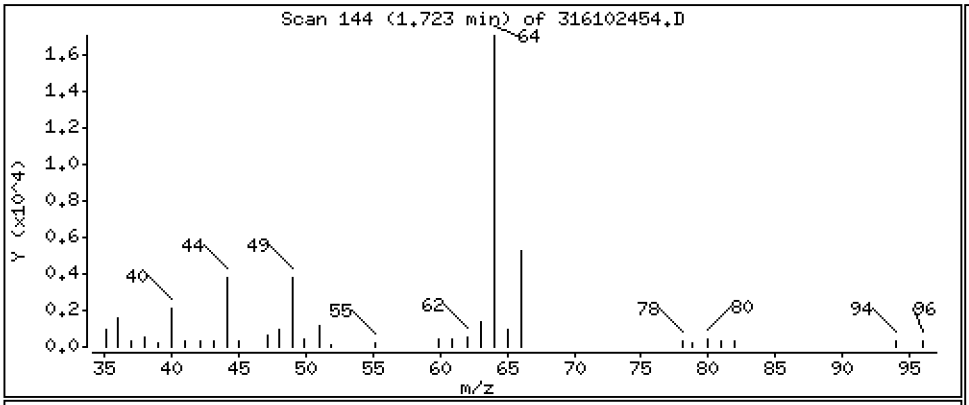
Client ID: Instrument: ms03.i

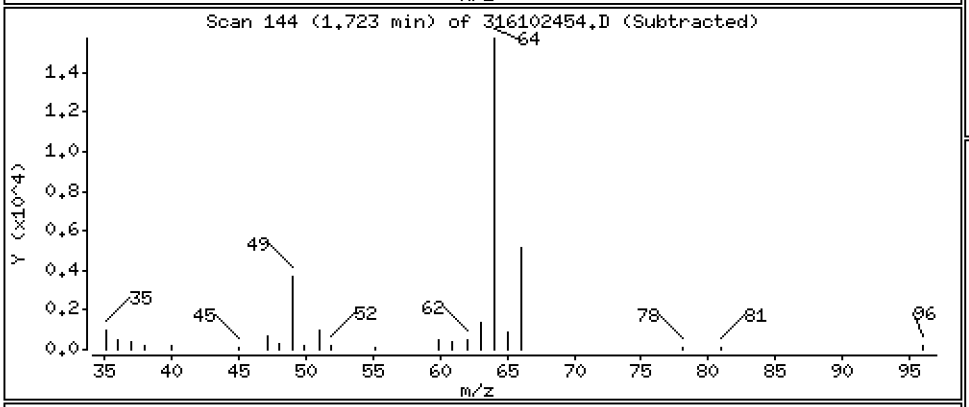
Sample Info: 1234;;1;1;1;;;

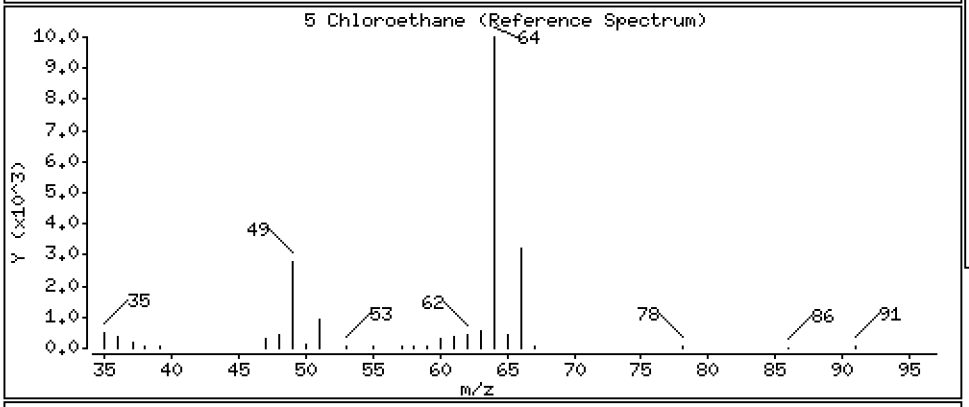
Purge Volume: 5.0 Operator: CJG

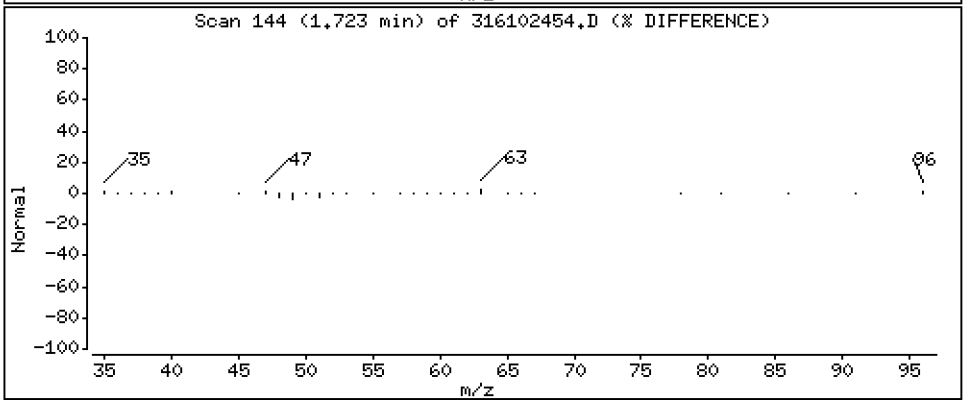
Column phase: DB-VRX Column diameter: 0.25

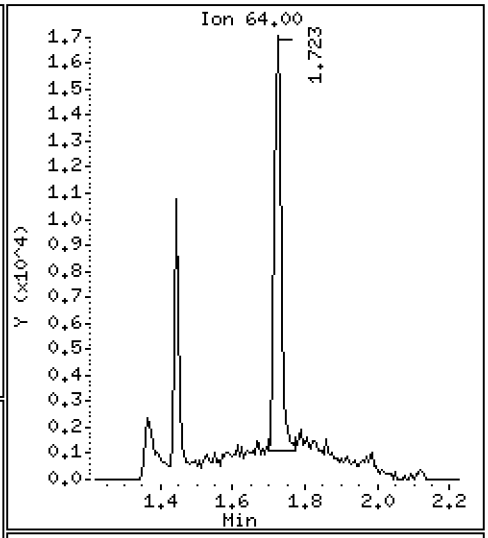
5 Chloroethane Concentration: 2.36008 ug/L

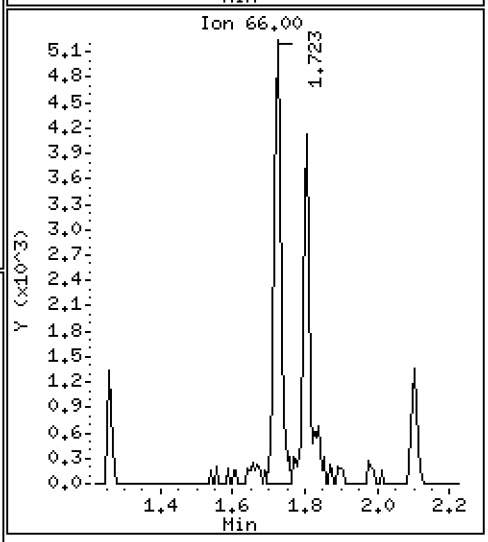












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 14

Date : 24-OCT-2016 23:46

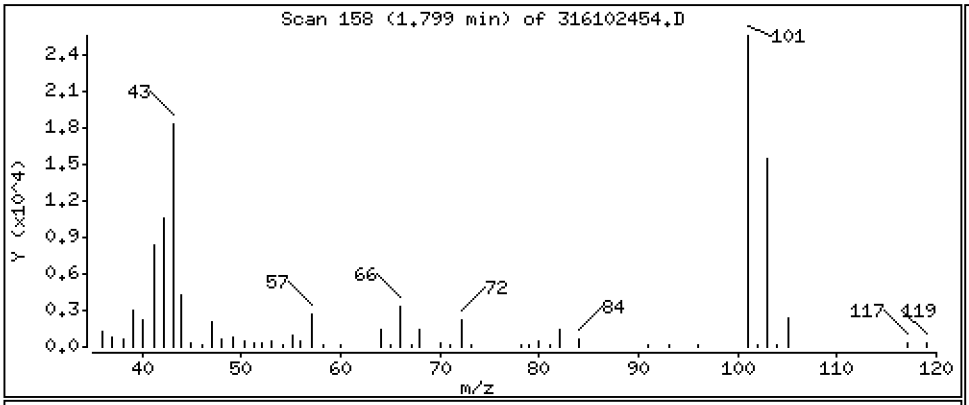
Client ID: Instrument: ms03.i

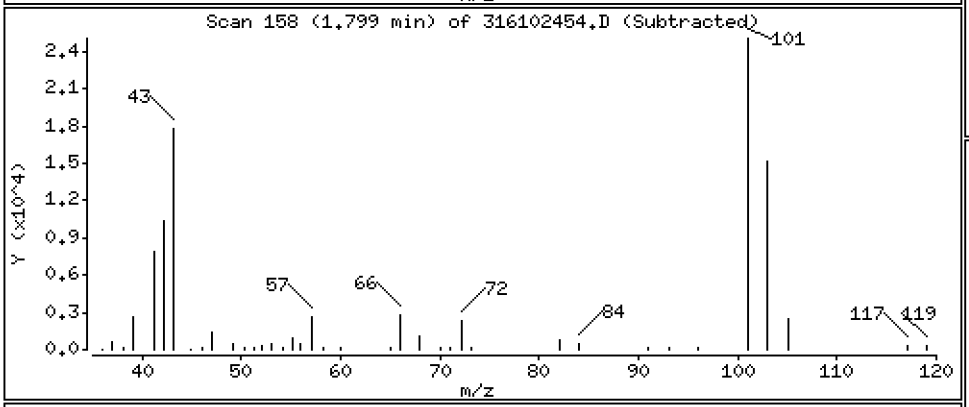
Sample Info: 1234;;1;1;1;;;

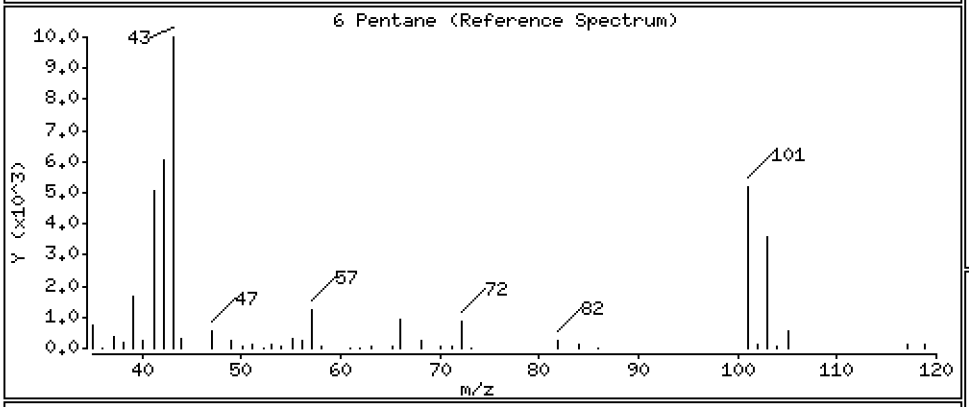
Purge Volume: 5.0 Operator: CJG

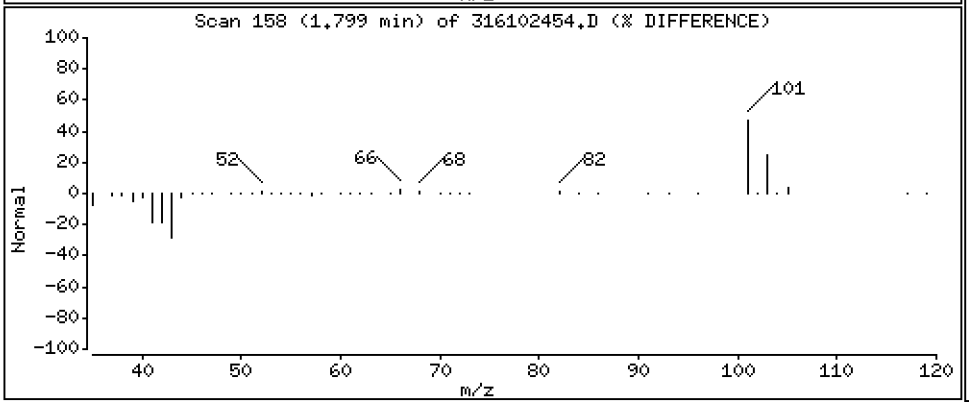
Column phase: DB-VRX Column diameter: 0.25

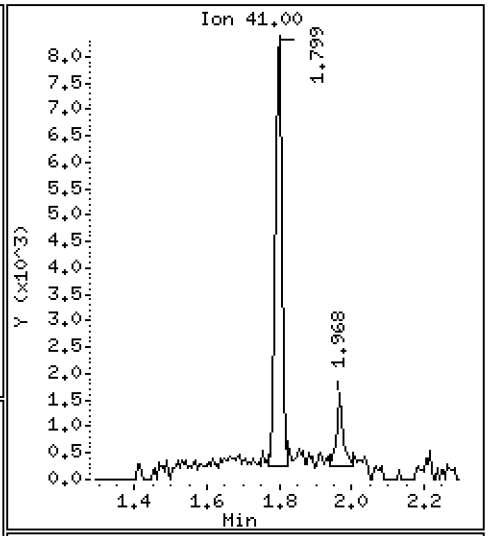
6 Pentane Concentration: 1.37517 ug/L

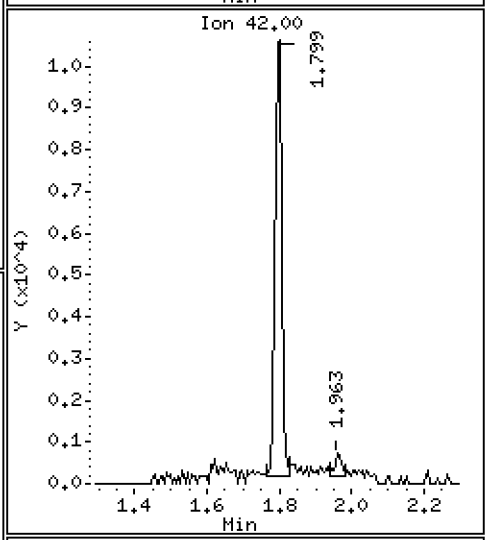


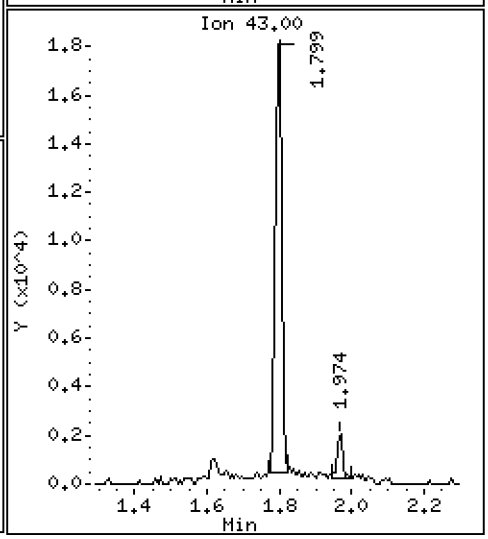












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 15

Date : 24-OCT-2016 23:46

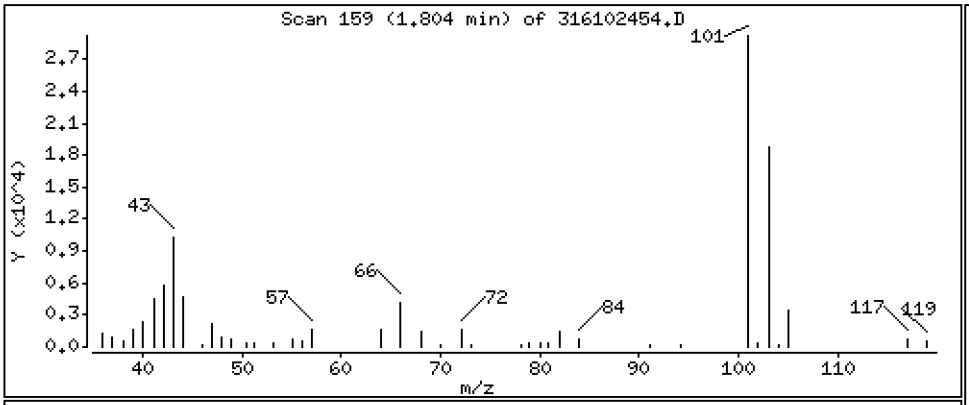
Client ID: Instrument: ms03.i

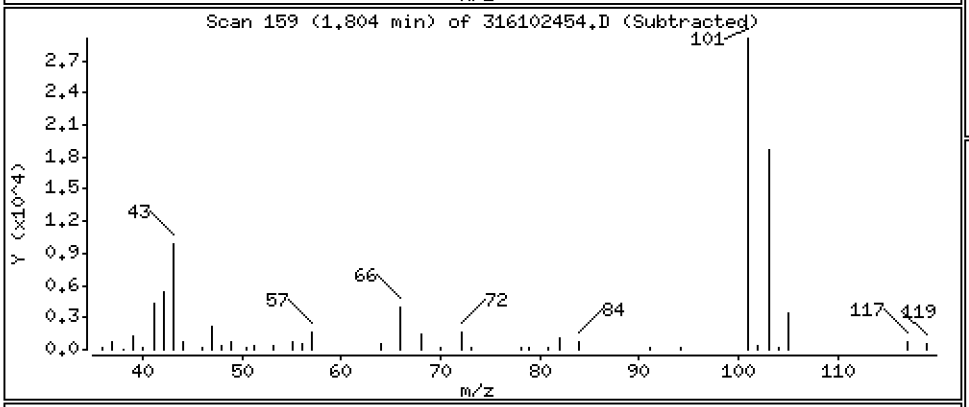
Sample Info: 1234;;1;1;1;;;

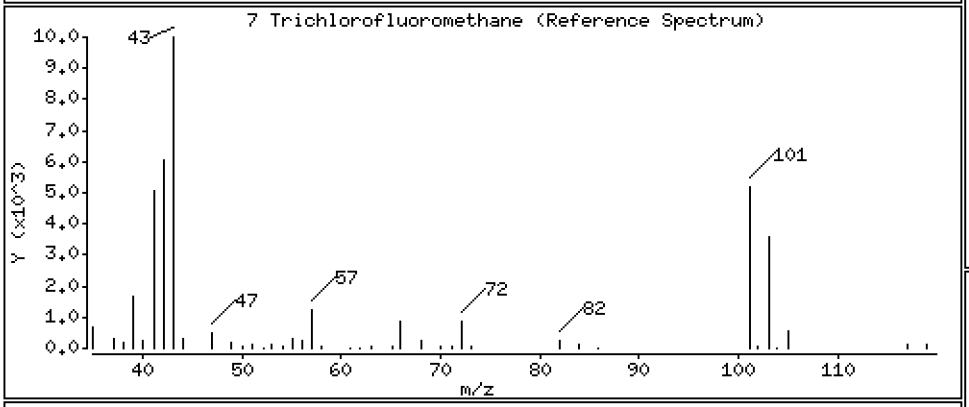
Purge Volume: 5.0 Operator: CJG

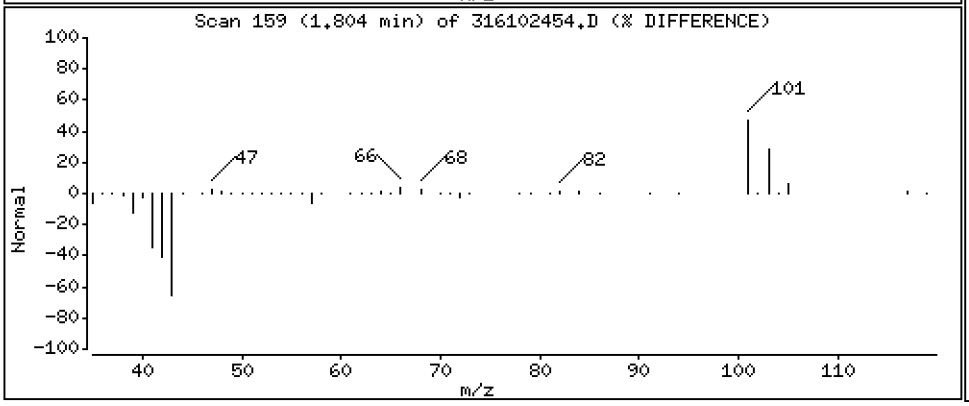
Column phase: DB-VRX Column diameter: 0.25

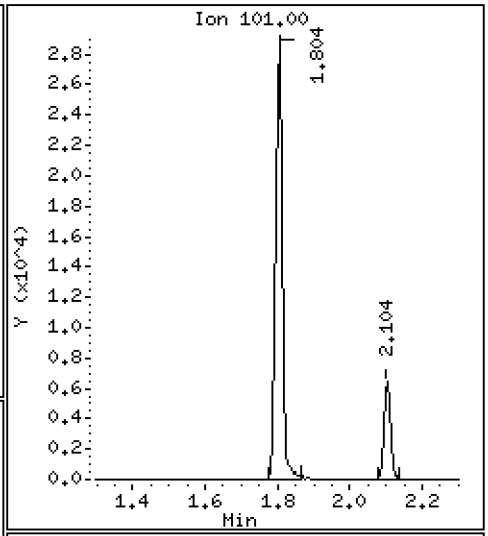
7 Trichlorofluoromethane Concentration: 2.58823 ug/L

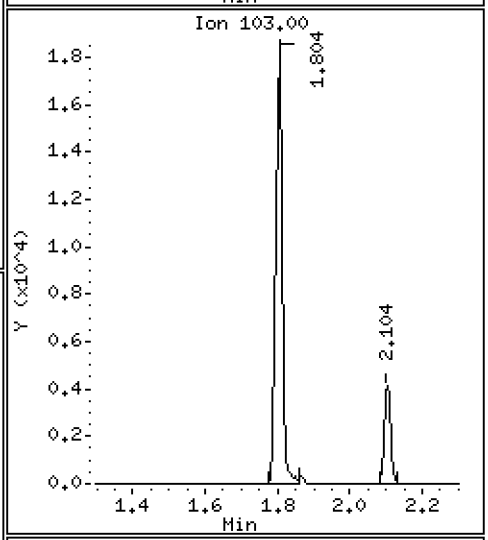


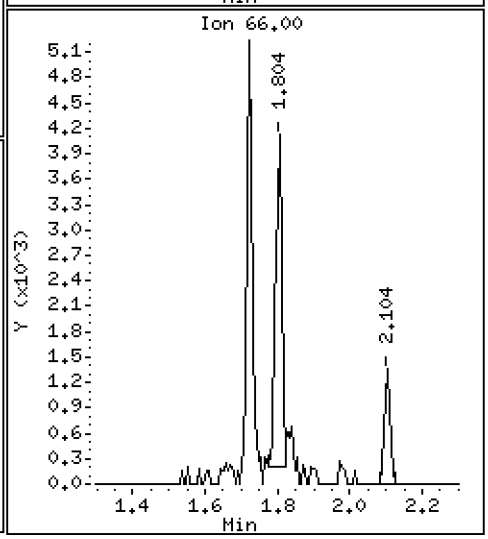












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 16

Date : 24-OCT-2016 23:46

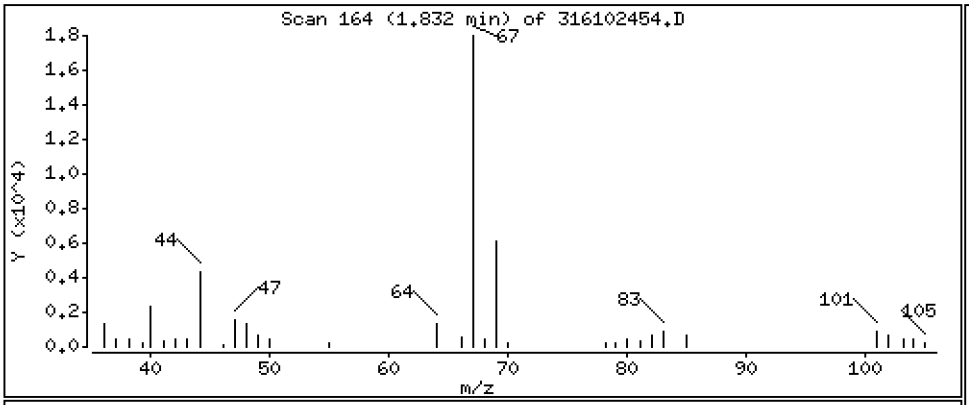
Client ID: Instrument: ms03.i

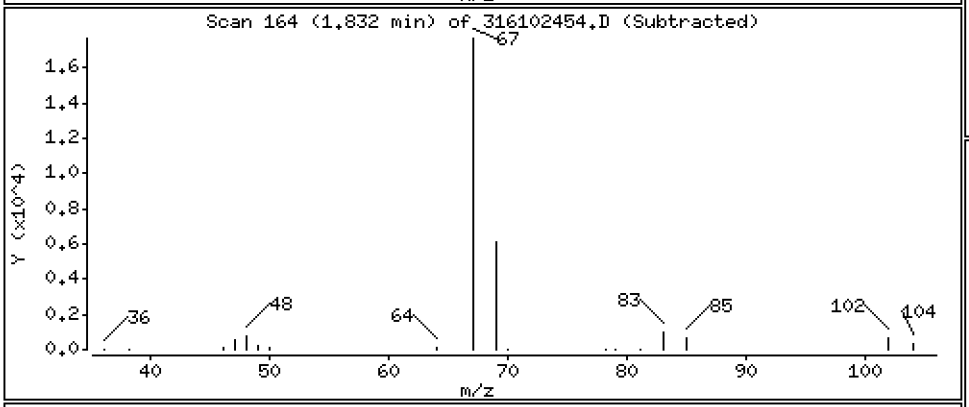
Sample Info: 1234;;1;1;1;;;

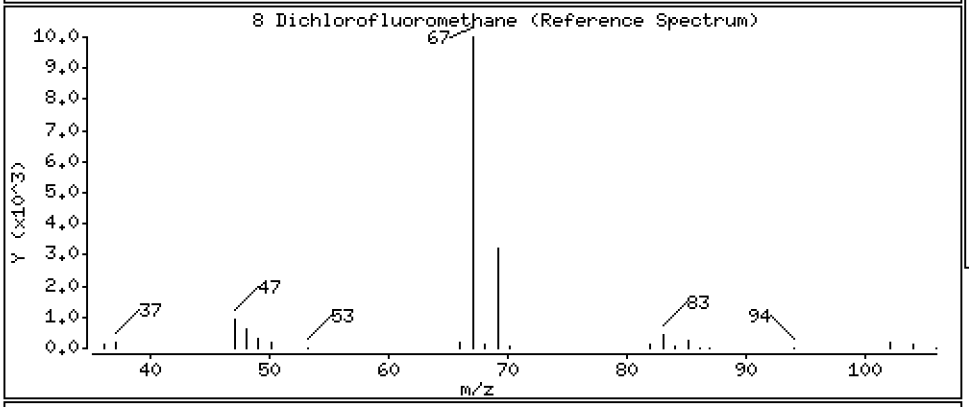
Purge Volume: 5.0 Operator: CJG

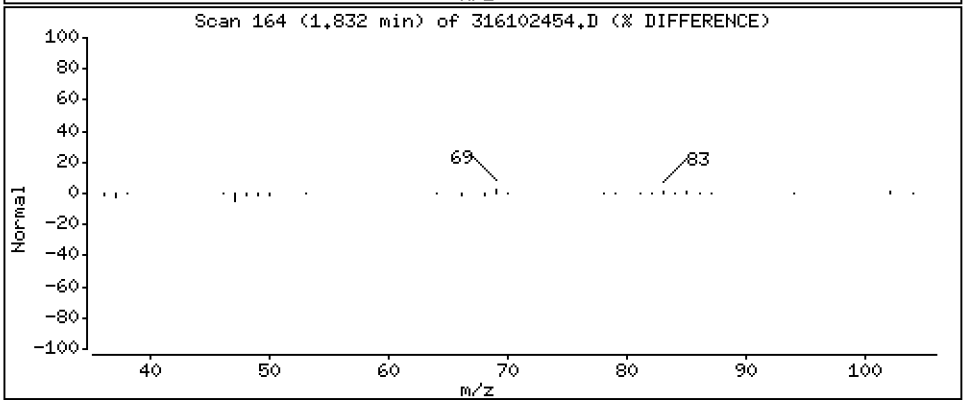
Column phase: DB-VRX Column diameter: 0.25

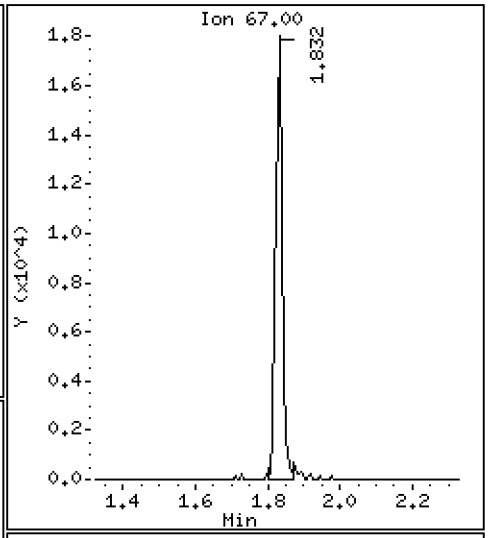
8 Dichlorofluoromethane Concentration: 1.22998 ug/L

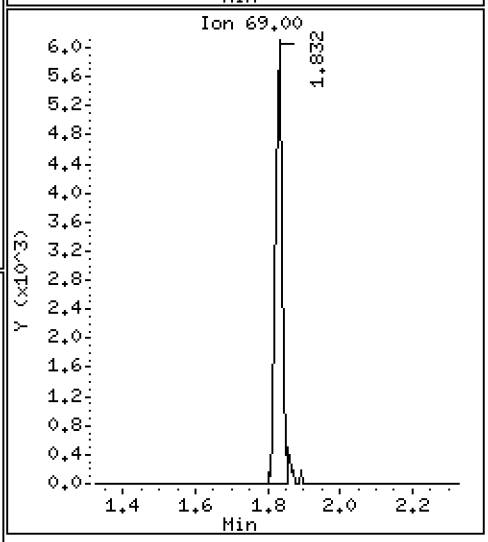












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 17

Date : 24-OCT-2016 23:46

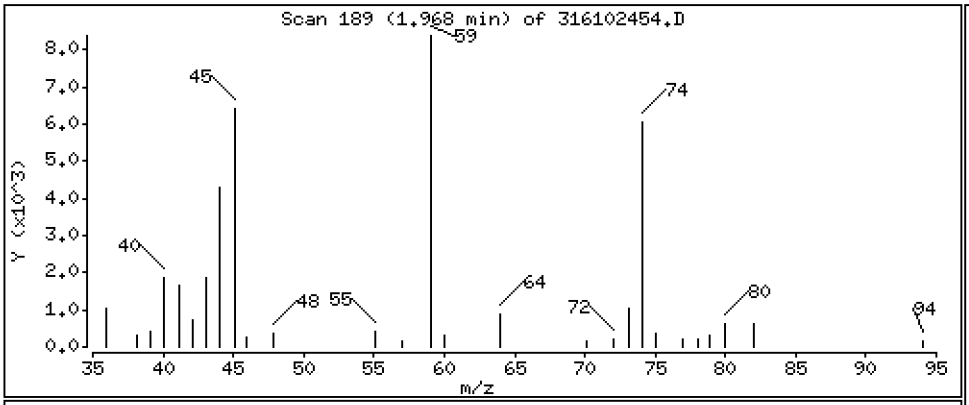
Client ID: Instrument: ms03.i

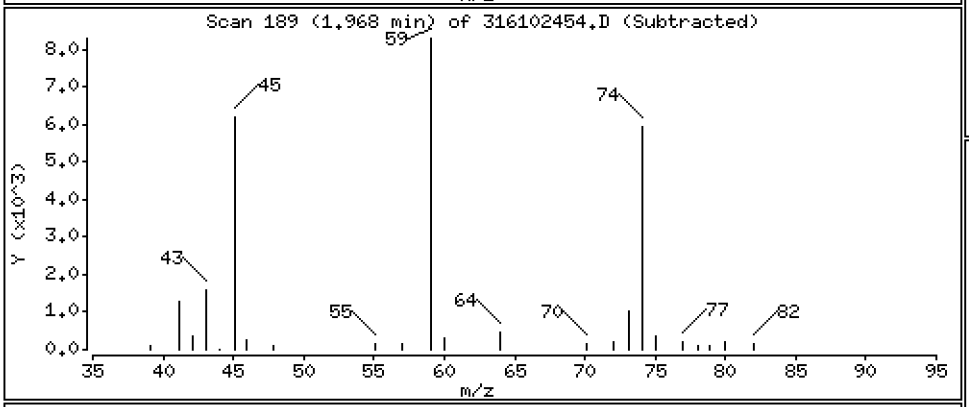
Sample Info: 1234;;1;1;1;;;

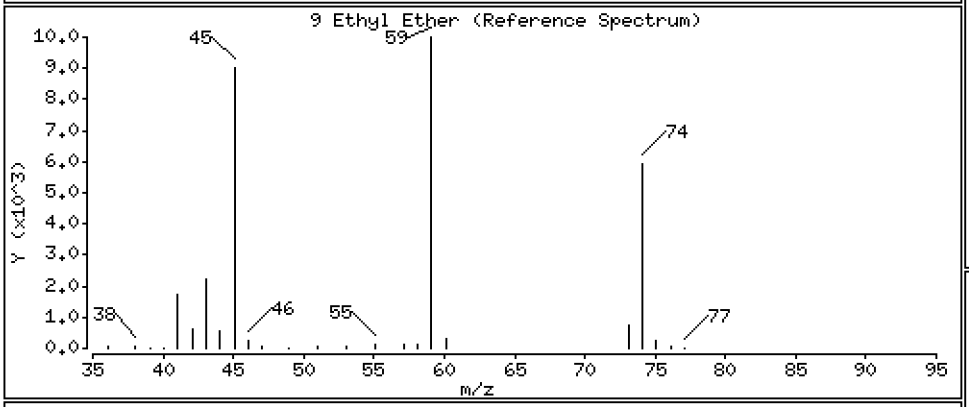
Purge Volume: 5.0 Operator: CJG

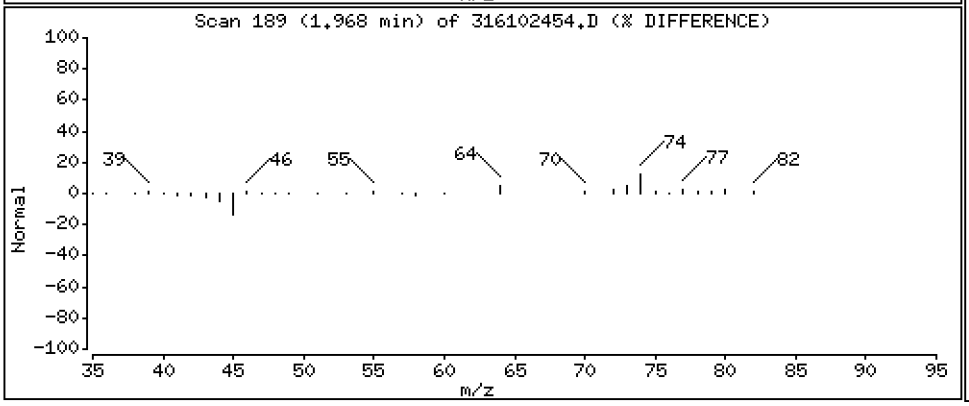
Column phase: DB-VRX Column diameter: 0.25

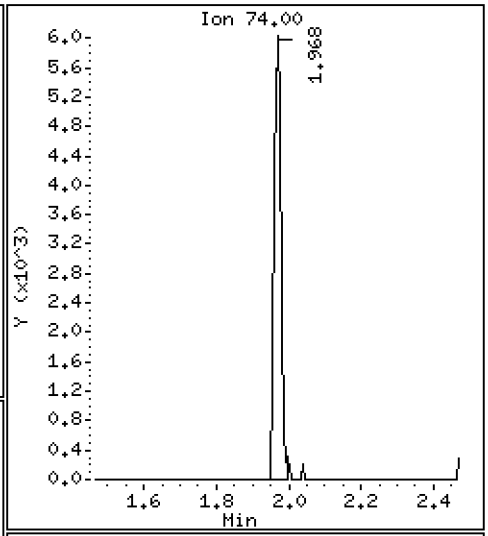
9 Ethyl Ether Concentration: 1.22649 ug/L

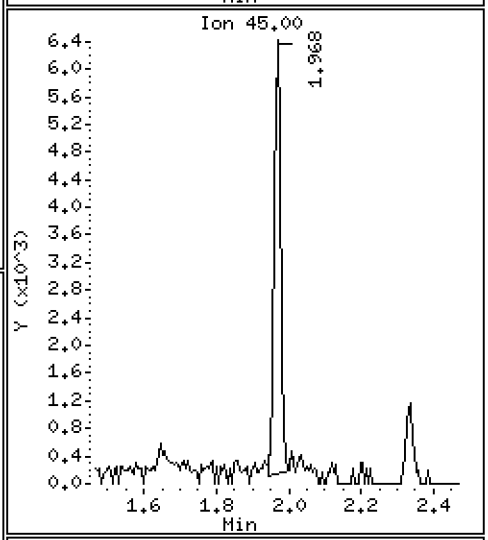


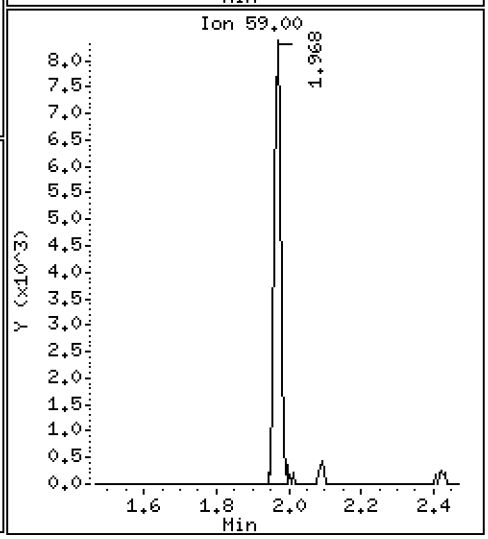












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 18

Date : 24-OCT-2016 23:46

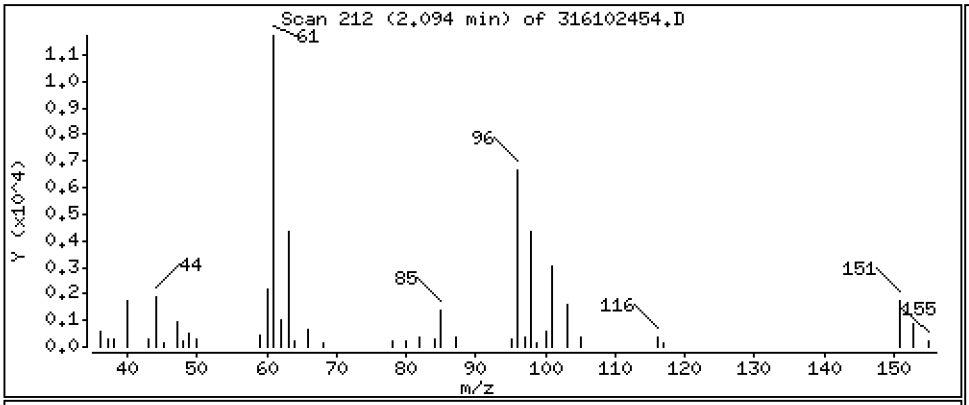
Client ID: Instrument: ms03.i

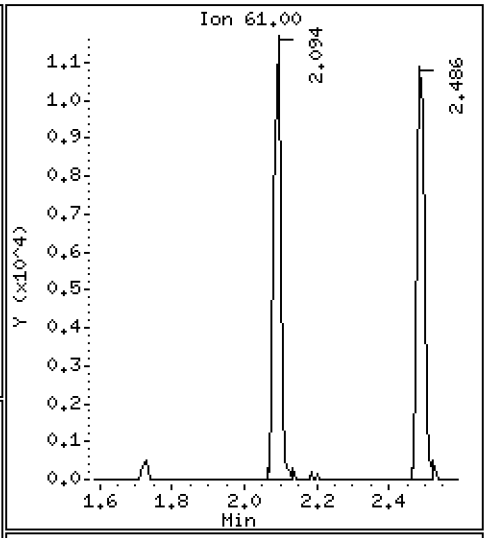
Sample Info: 1234;;1;1;1;;;

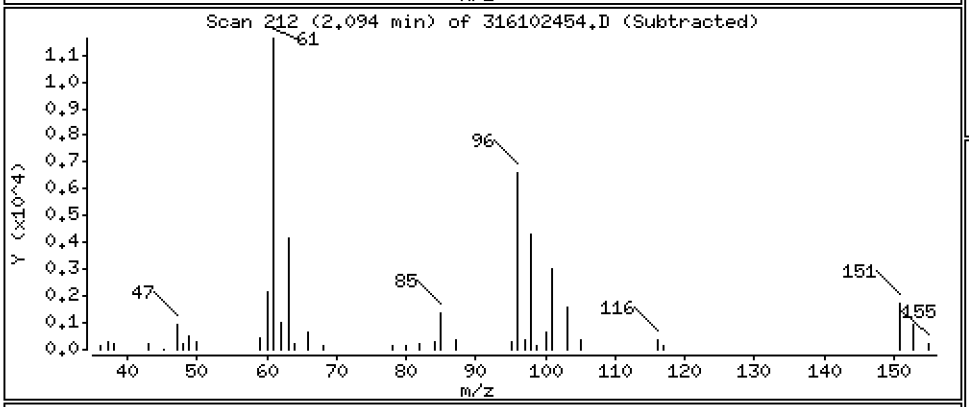
Purge Volume: 5.0 Operator: CJG

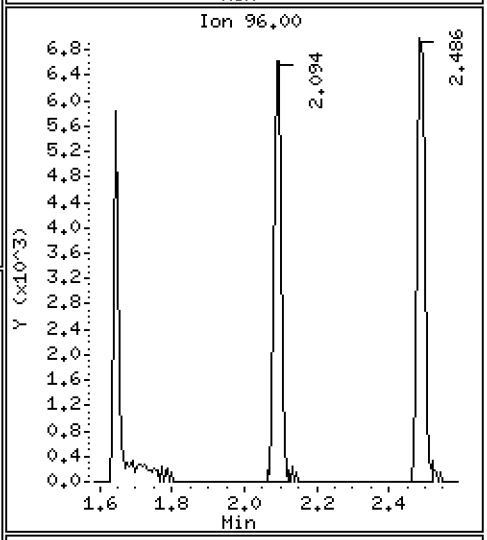
Column phase: DB-VRX Column diameter: 0.25

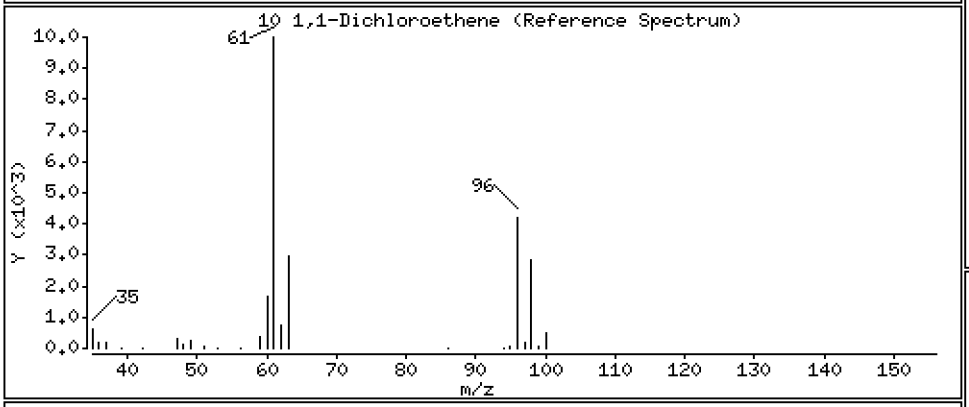
10 1,1-Dichloroethene Concentration: 1.19455 ug/L

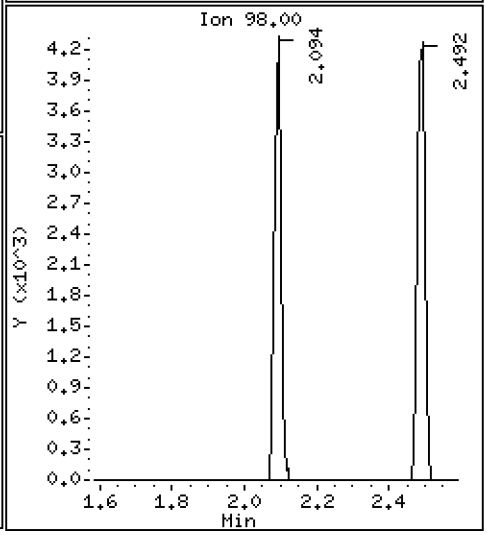


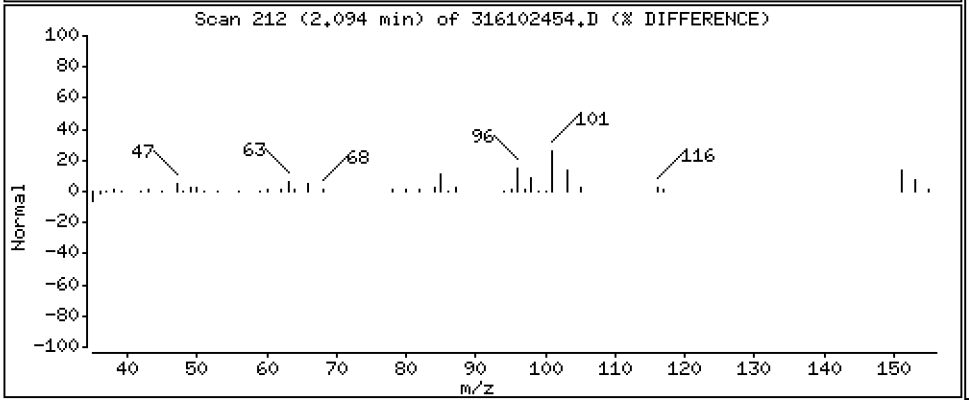












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 19

Date : 24-OCT-2016 23:46

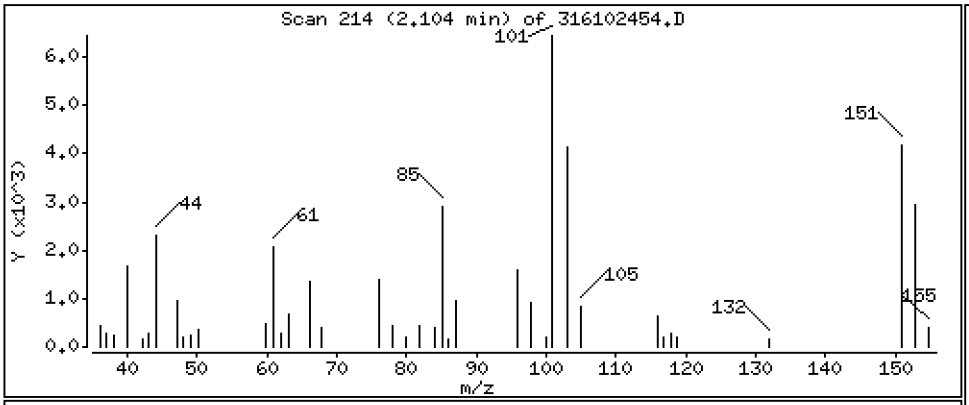
Client ID: Instrument: ms03.i

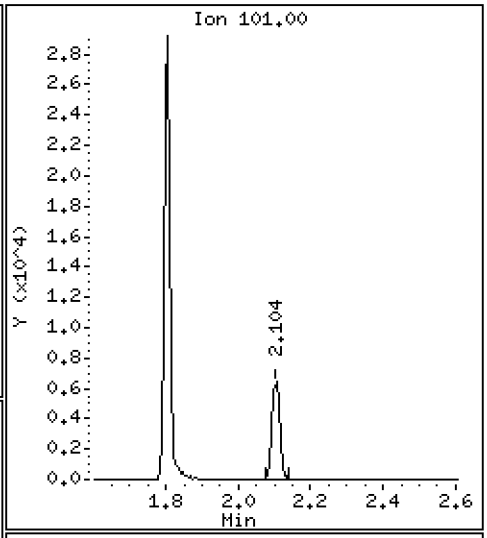
Sample Info: 1234;;1;1;1;;;

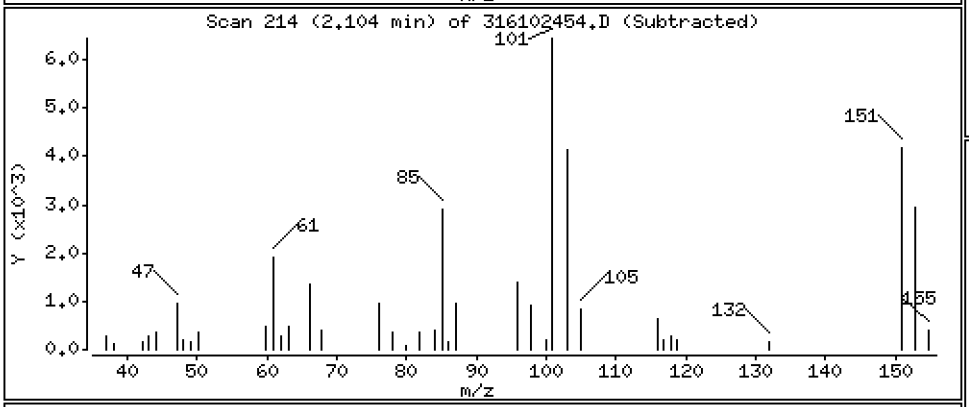
Purge Volume: 5.0 Operator: CJG

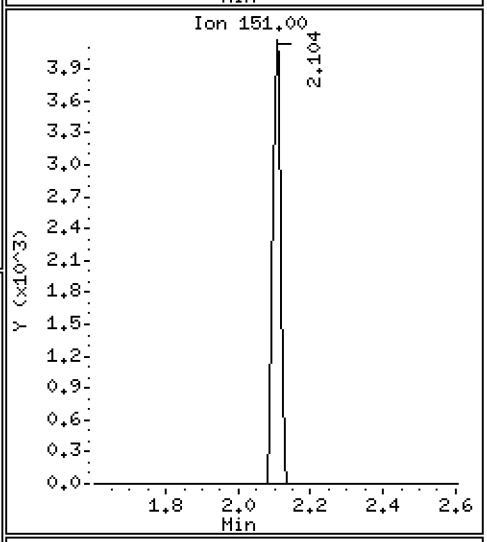
Column phase: DB-VRX Column diameter: 0.25

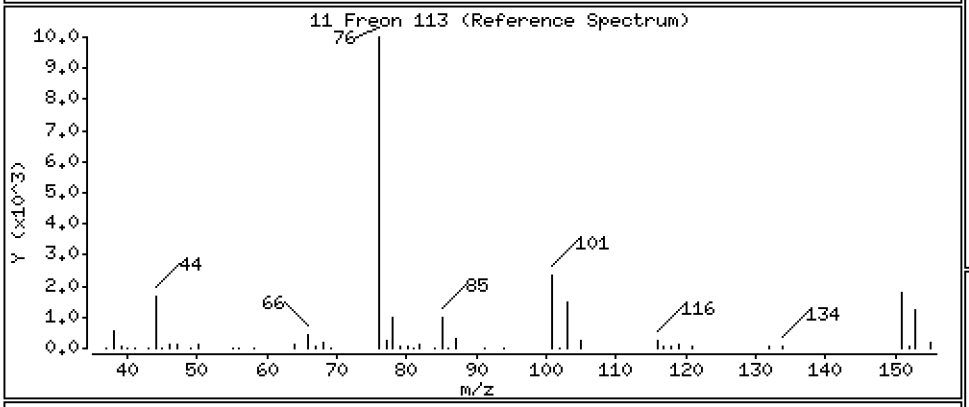
11 Freon 113 Concentration: 1.39887 ug/L

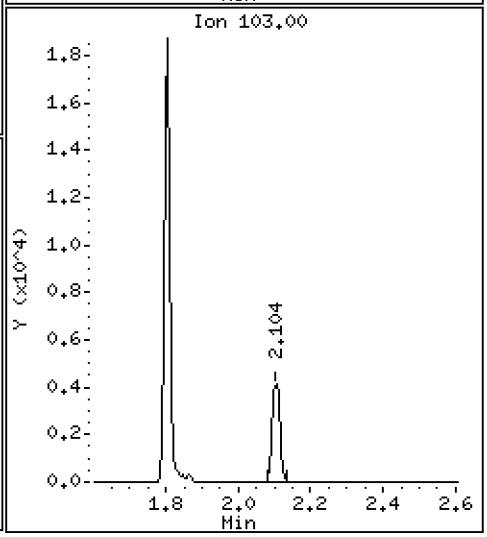


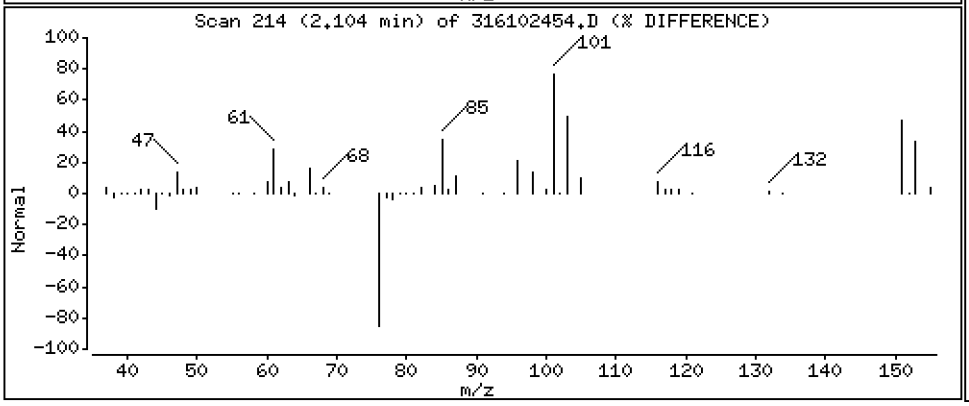












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 20

Date : 24-OCT-2016 23:46

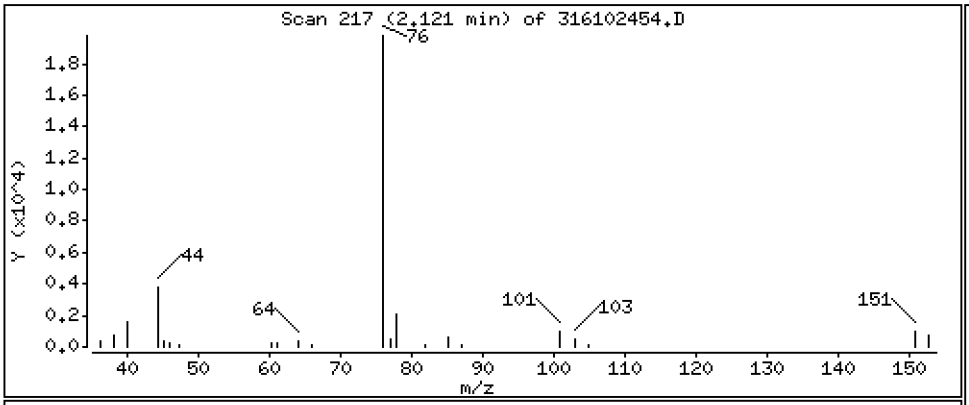
Client ID: Instrument: ms03.i

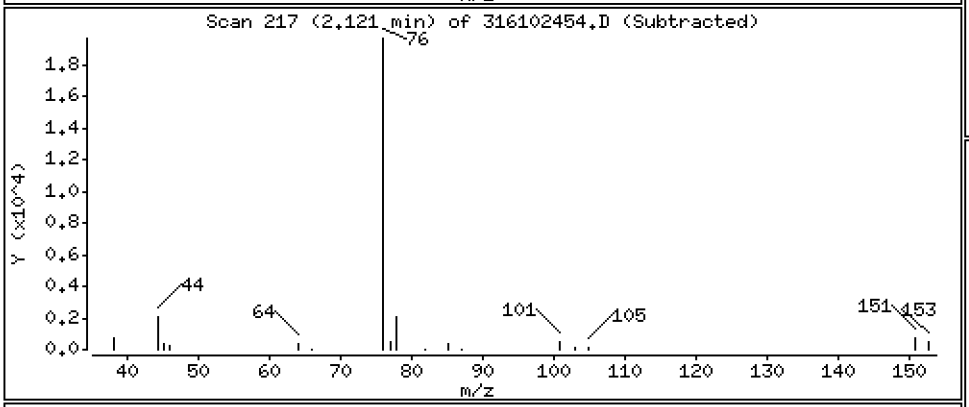
Sample Info: 1234;;1;1;1;;;

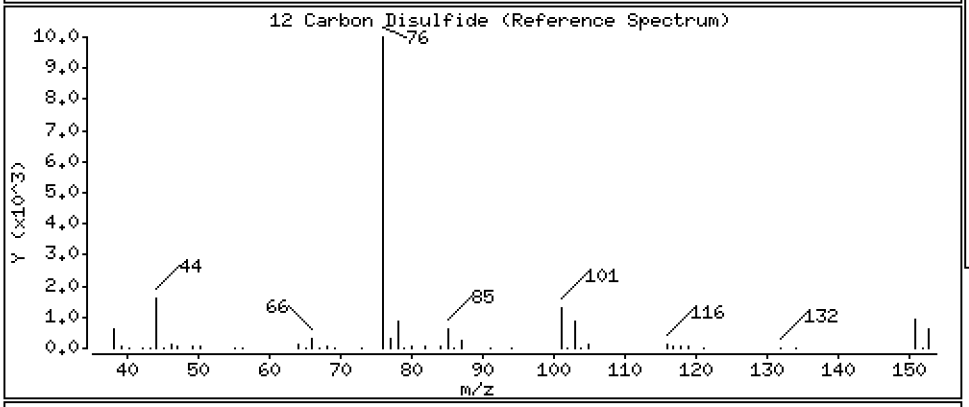
Purge Volume: 5.0 Operator: CJG

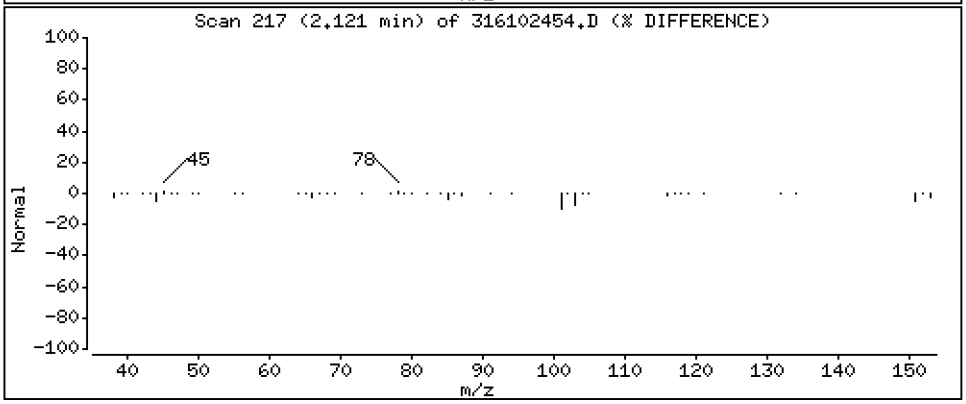
Column phase: DB-VRX Column diameter: 0.25

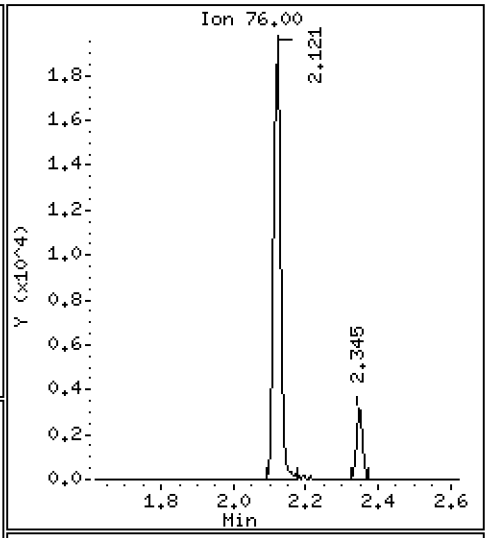
12 Carbon Disulfide Concentration: 1.07202 ug/L

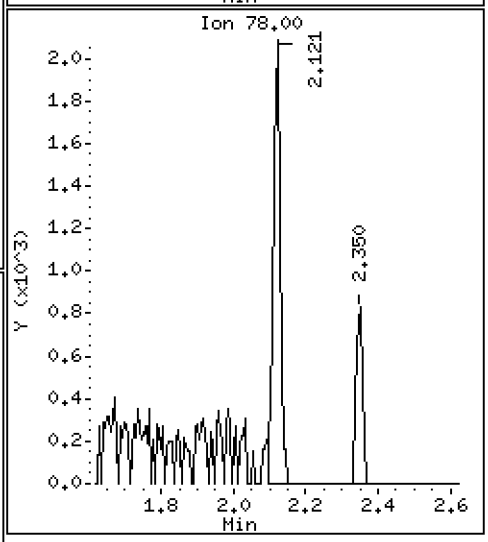












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 21

Date : 24-OCT-2016 23:46

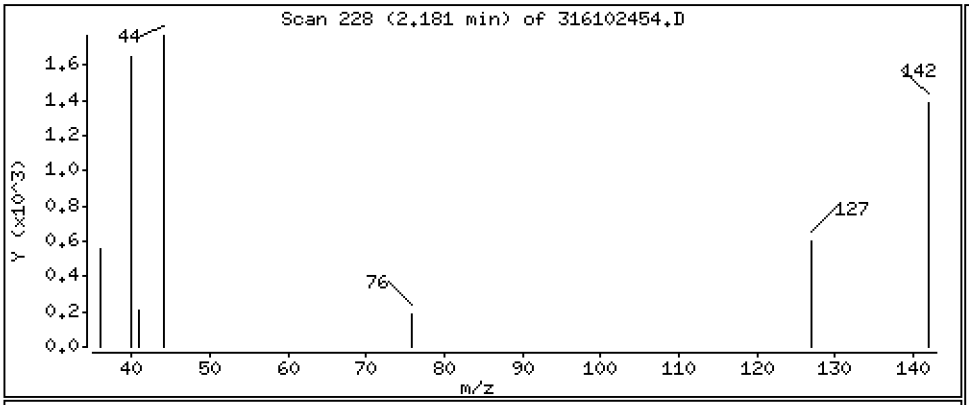
Client ID: Instrument: ms03.i

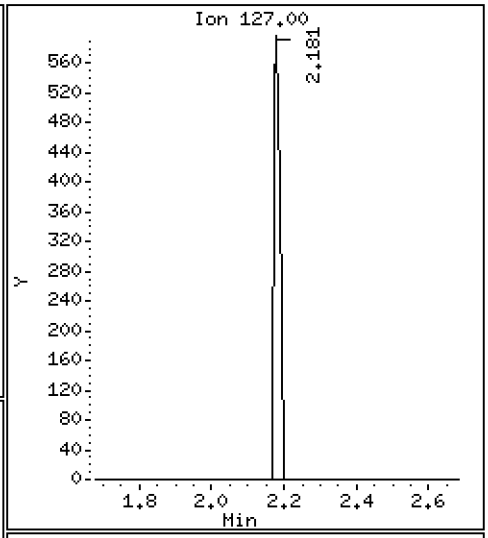
Sample Info: 1234;;1;1;1;;;

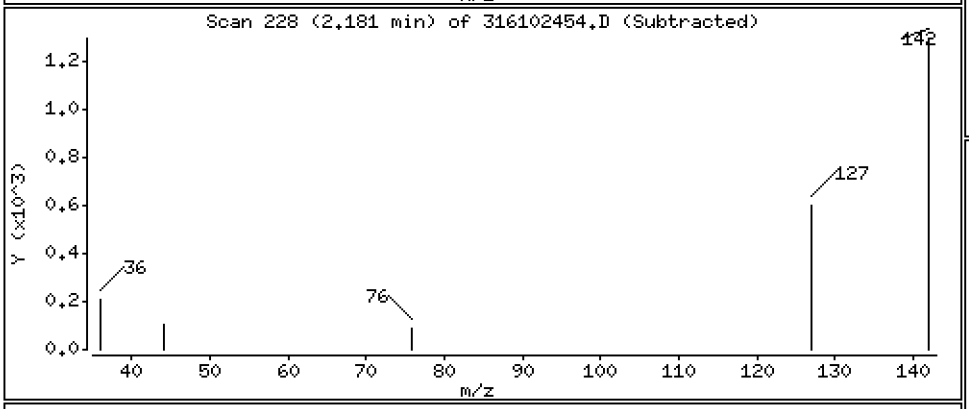
Purge Volume: 5.0 Operator: CJG

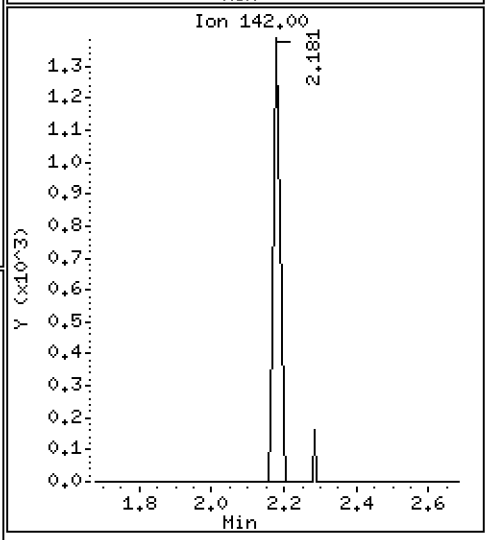
Column phase: DB-VRX Column diameter: 0.25

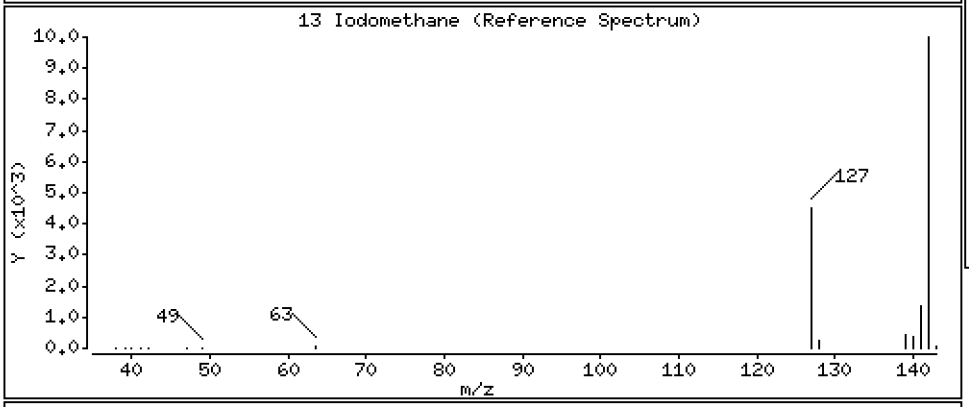
13 Iodomethane Concentration: 3.22654 ug/L

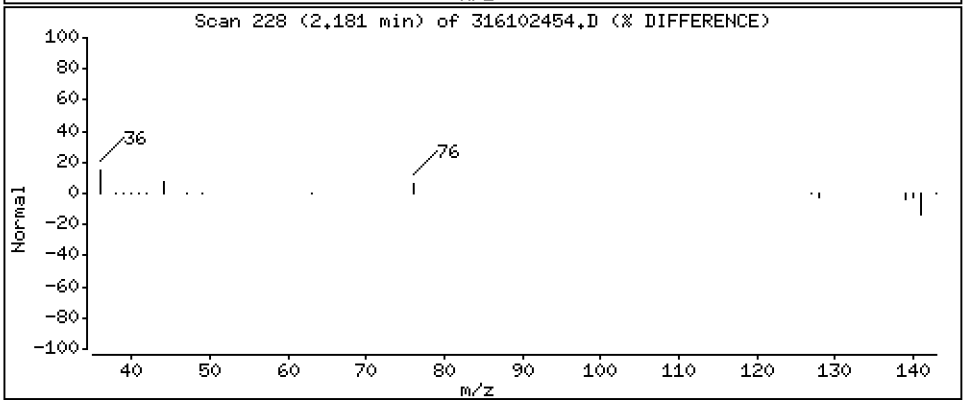












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 22

Date : 24-OCT-2016 23:46

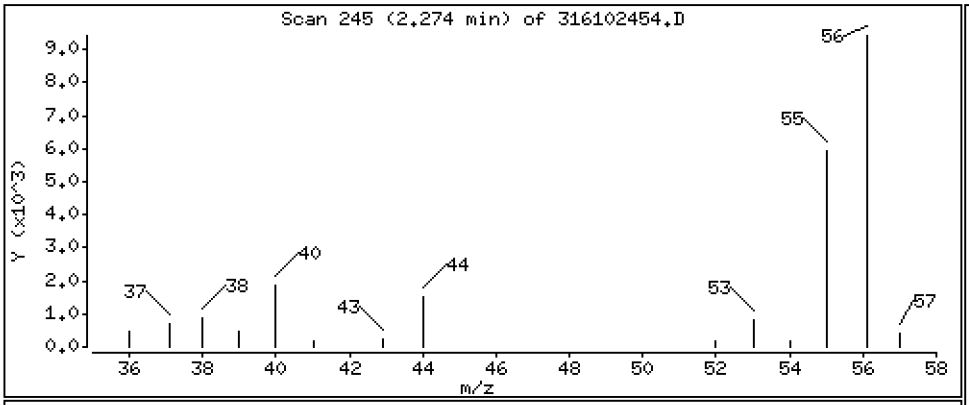
Client ID: Instrument: ms03.i

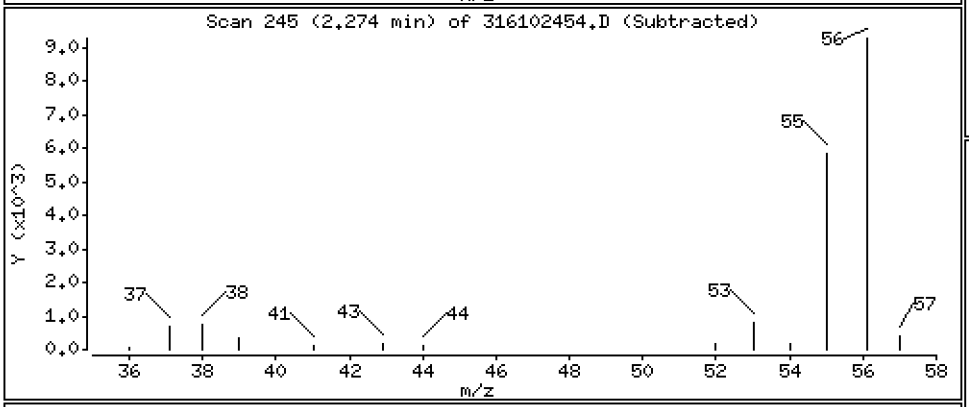
Sample Info: 1234;;1;1;1;;;

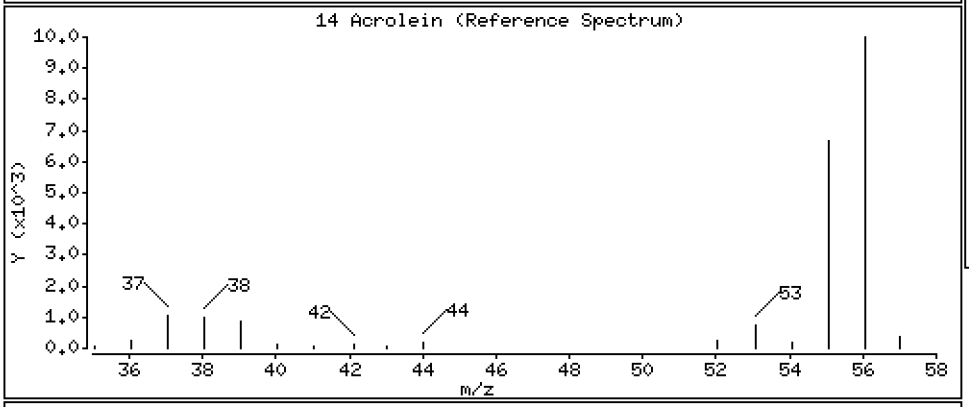
Purge Volume: 5.0 Operator: CJG

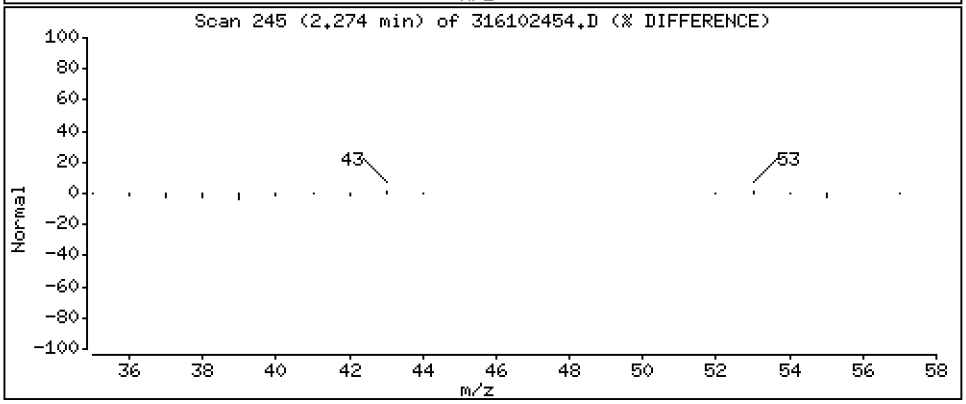
Column phase: DB-VRX Column diameter: 0.25

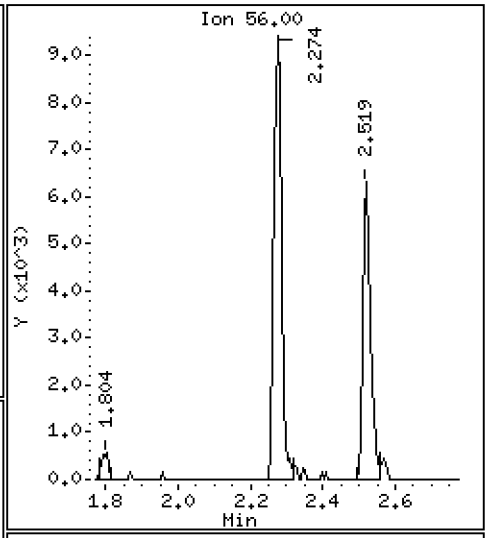
14 Acrolein Concentration: 10.6701 ug/L

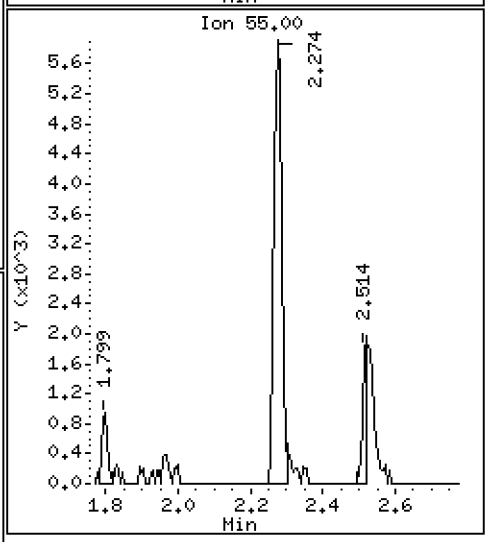












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 23

Date : 24-OCT-2016 23:46

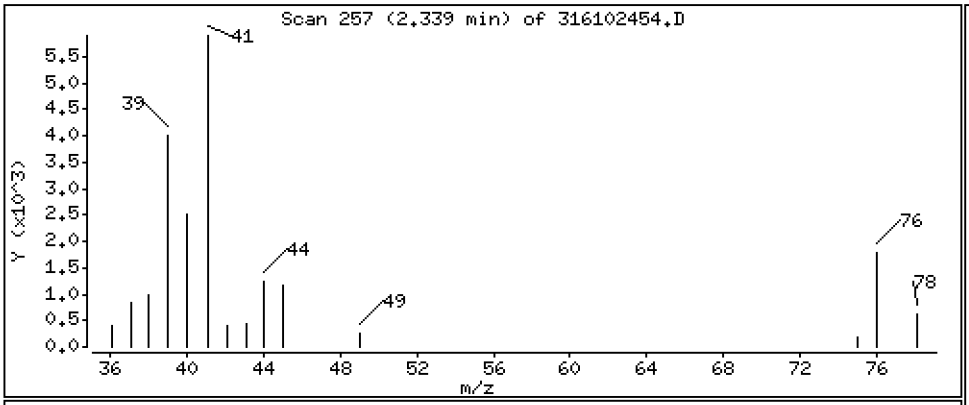
Client ID: Instrument: ms03.i

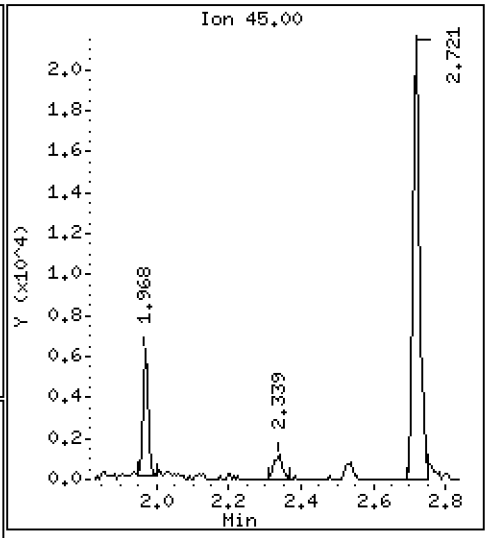
Sample Info: 1234;;1;1;1;;;

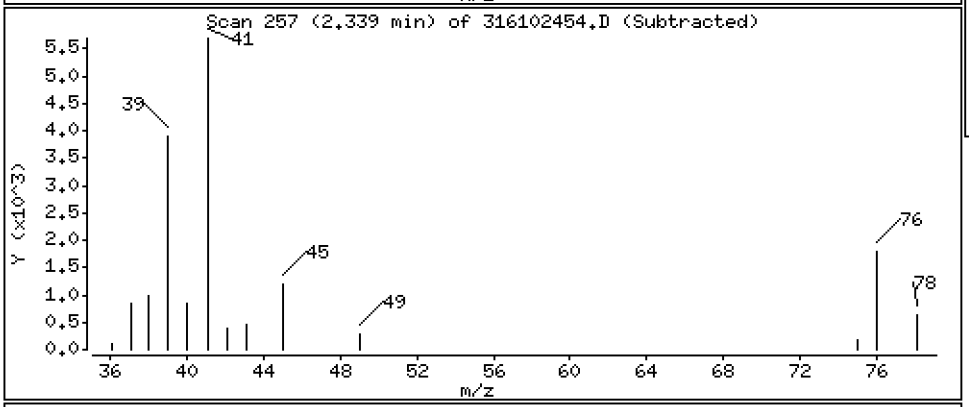
Purge Volume: 5.0 Operator: CJG

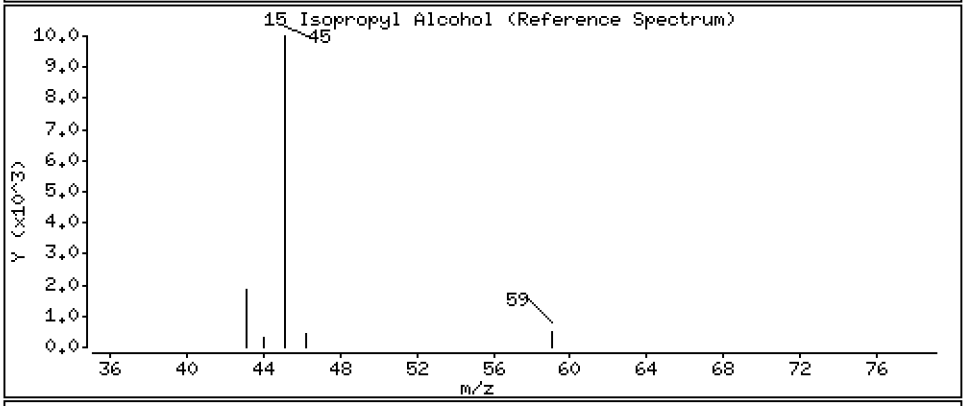
Column phase: DB-VRX Column diameter: 0.25

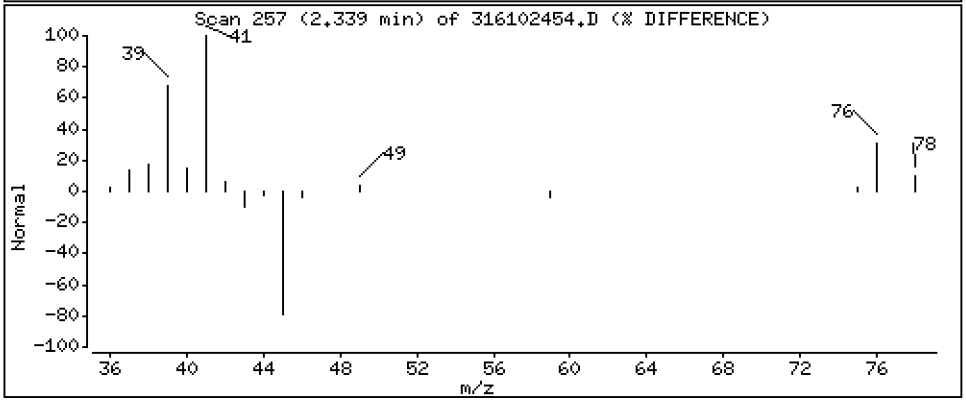
15 Isopropyl Alcohol Concentration: 6.57498 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 24

Date : 24-OCT-2016 23:46

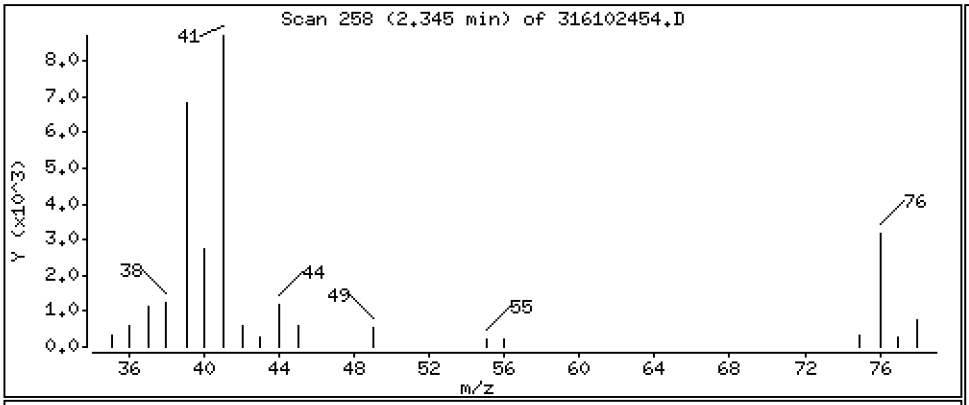
Client ID: Instrument: ms03.i

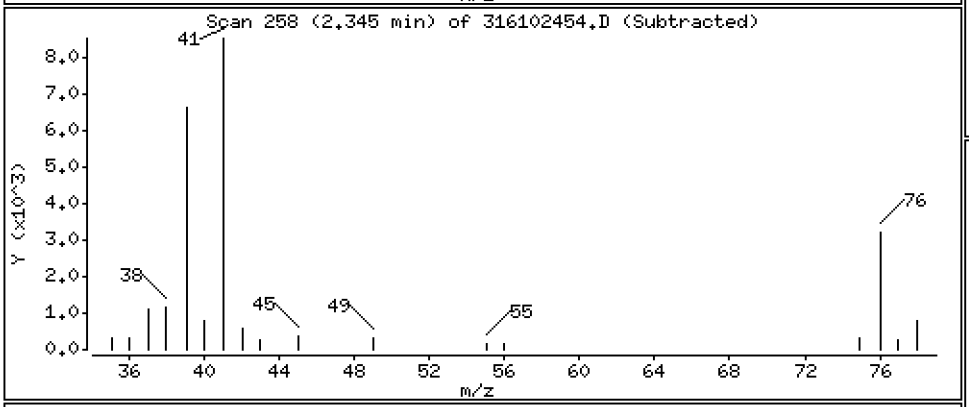
Sample Info: 1234;;1;1;1;;;

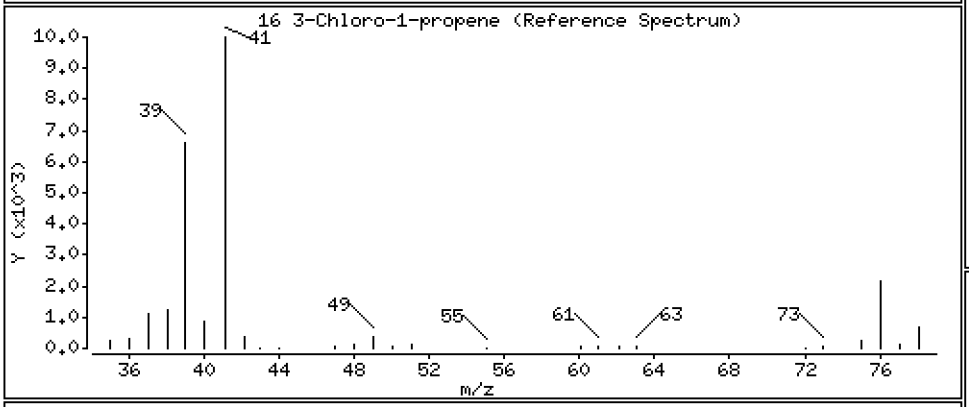
Purge Volume: 5.0 Operator: CJG

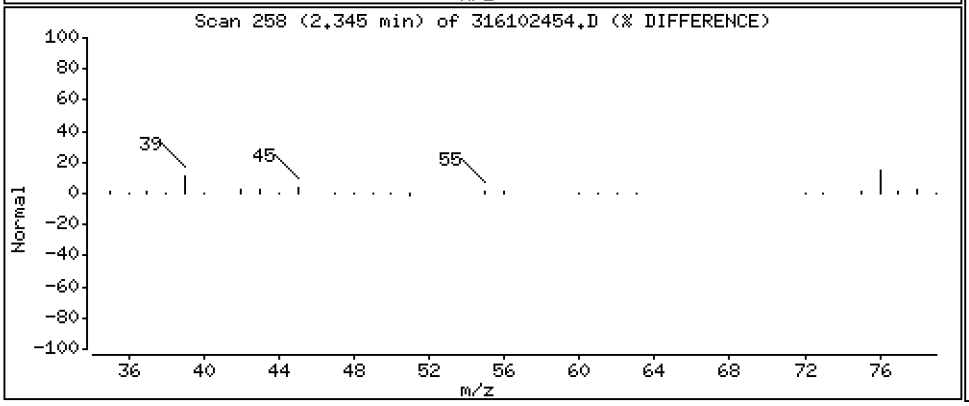
Column phase: DB-VRX Column diameter: 0.25

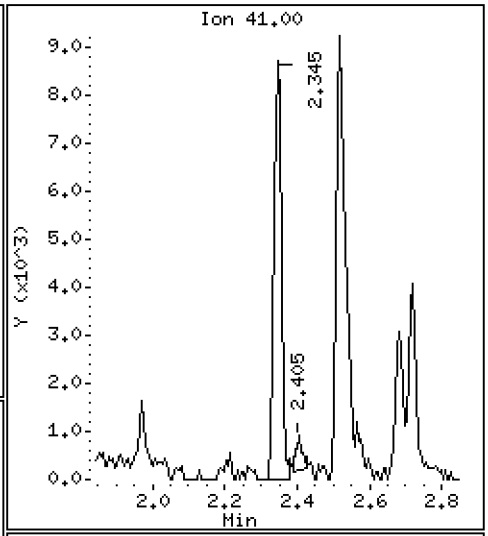
16 3-Chloro-1-propene Concentration: 0.964410 ug/L

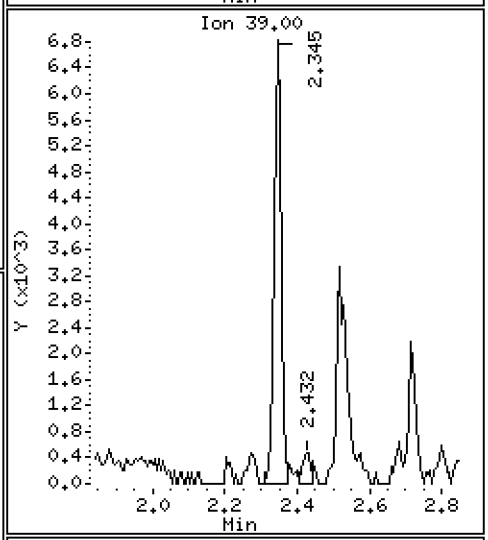


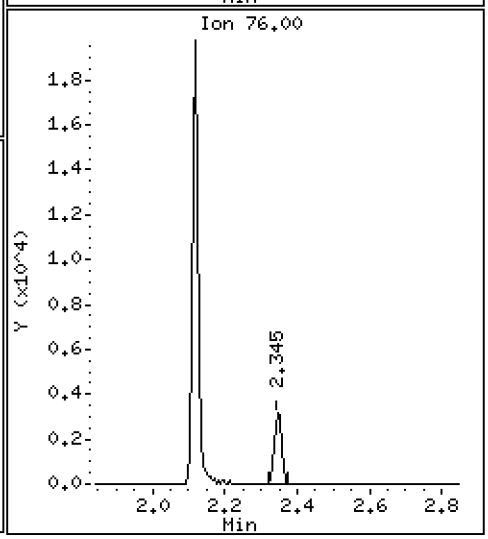












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 25

Date : 24-OCT-2016 23:46

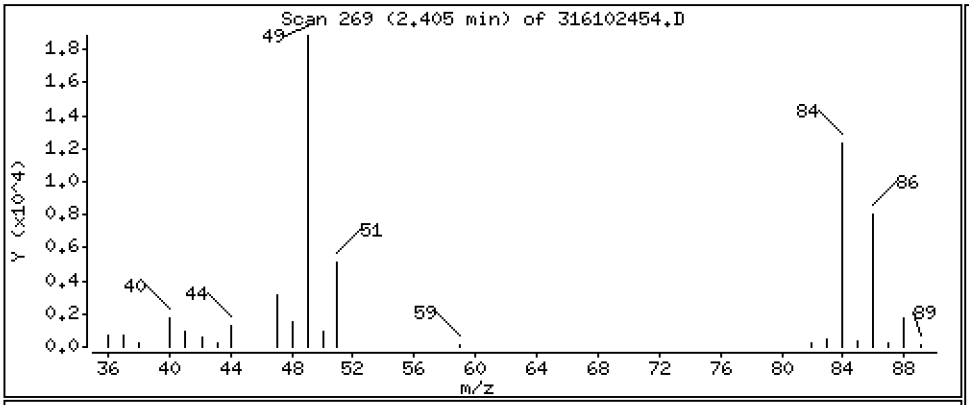
Client ID: Instrument: ms03.i

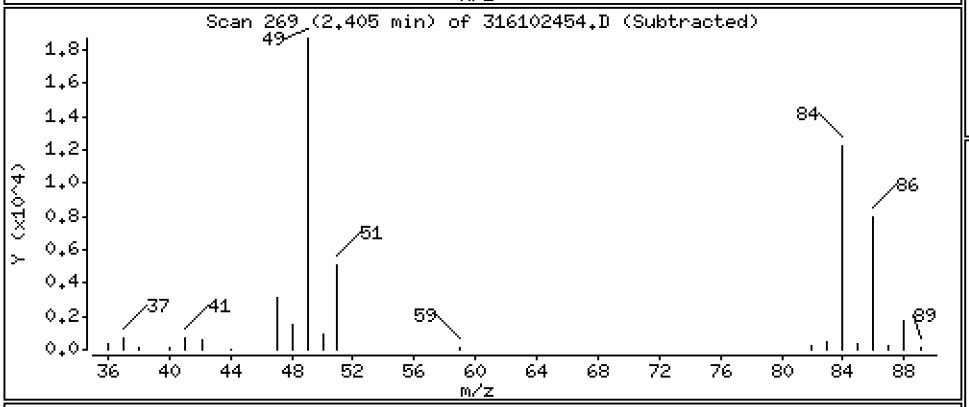
Sample Info: 1234;;1;1;1;;;

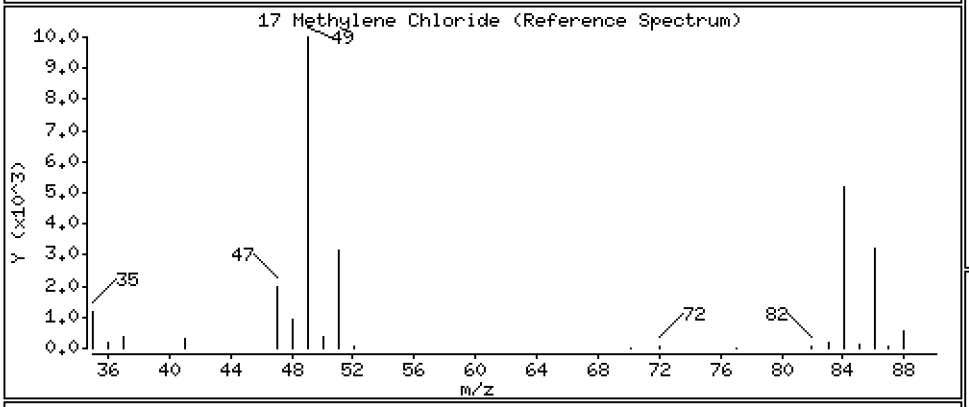
Purge Volume: 5.0 Operator: CJG

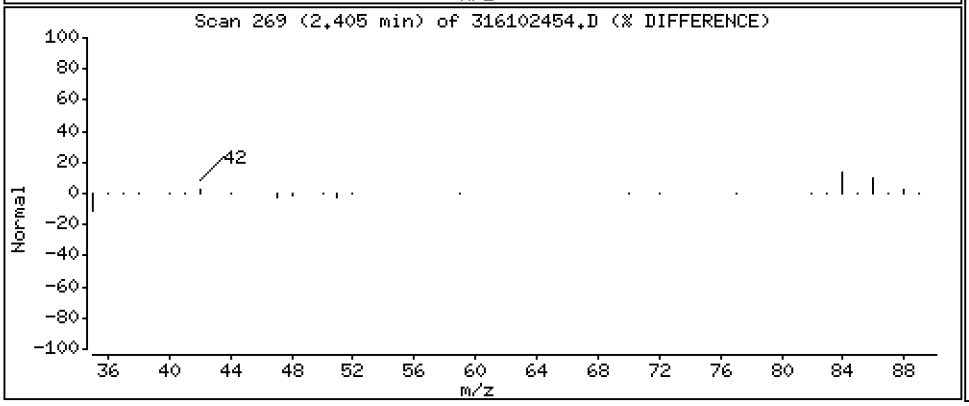
Column phase: DB-VRX Column diameter: 0.25

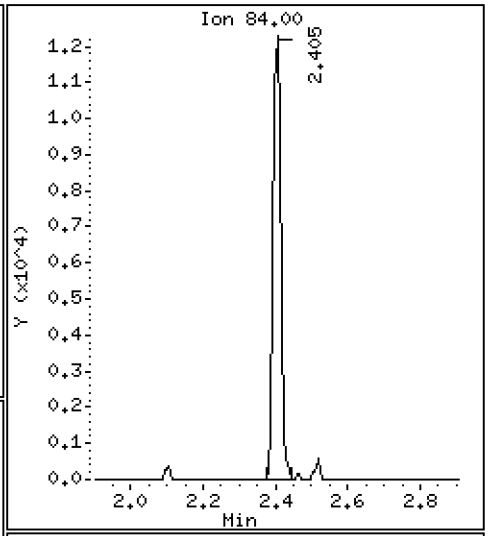
17 Methylene Chloride Concentration: 0.866807 ug/L

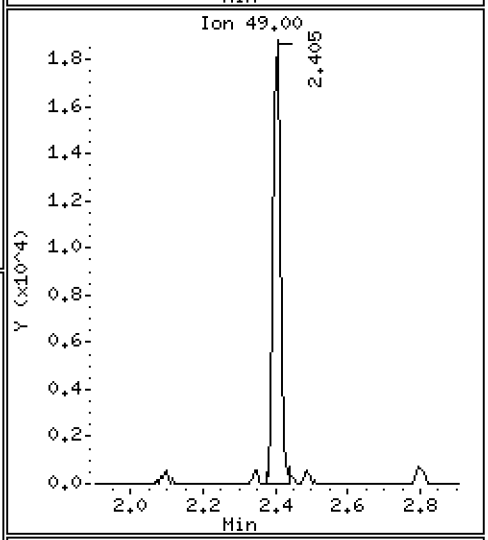


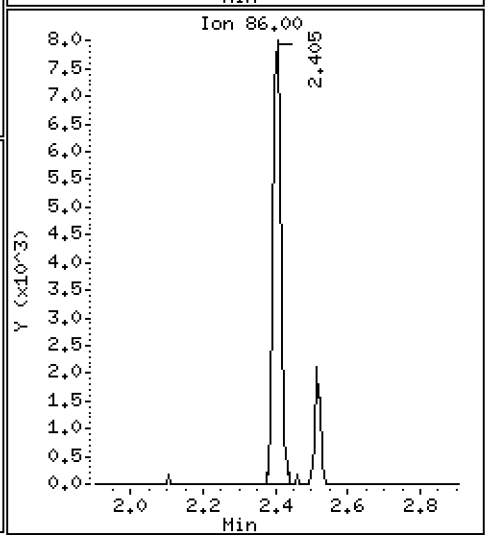












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 26

Date : 24-OCT-2016 23:46

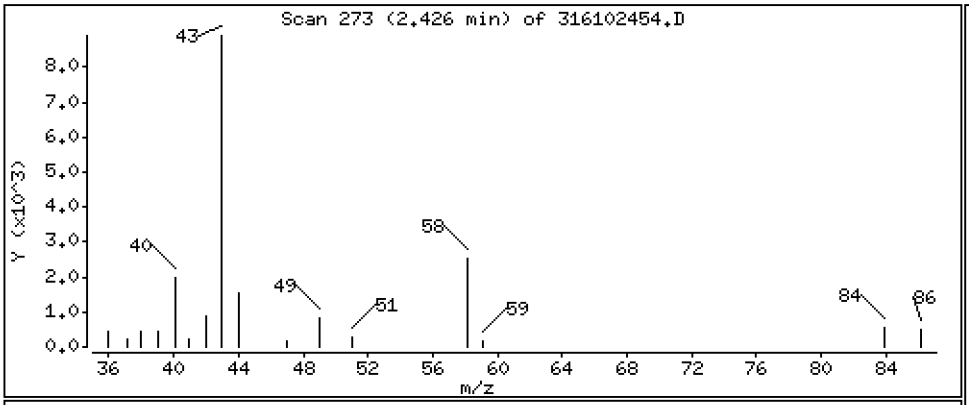
Client ID: Instrument: ms03.i

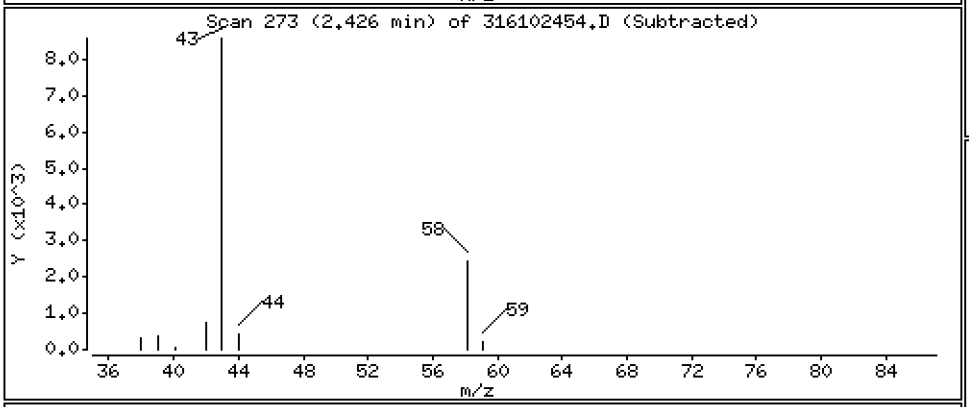
Sample Info: 1234;;1;1;1;;;

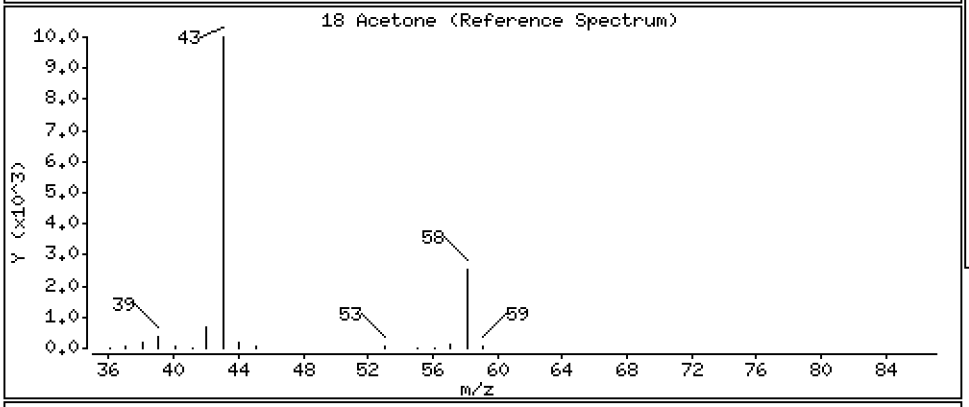
Purge Volume: 5.0 Operator: CJG

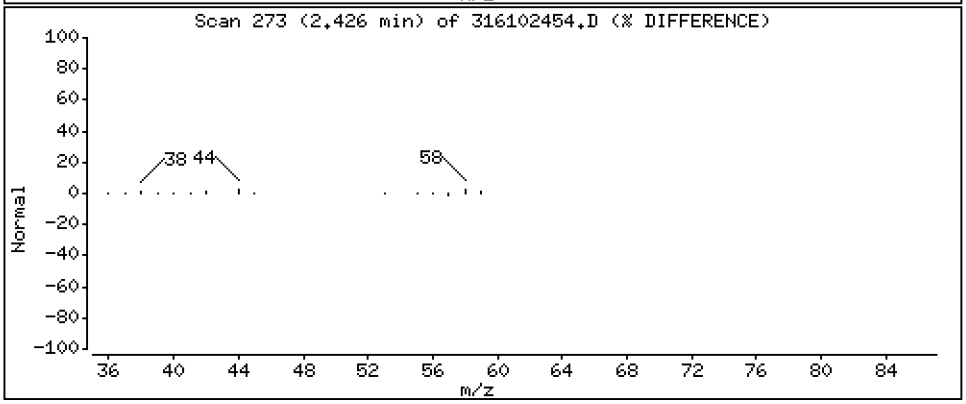
Column phase: DB-VRX Column diameter: 0.25

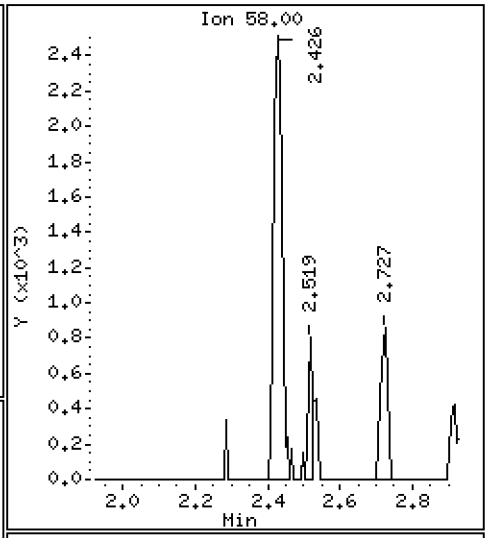
18 Acetone Concentration: 5.97017 ug/L

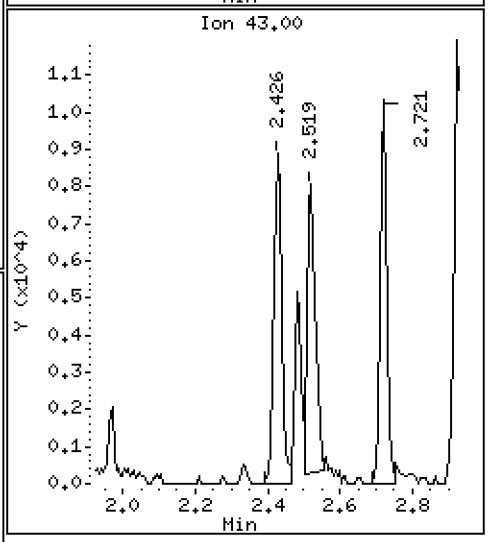












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 27

Date : 24-OCT-2016 23:46

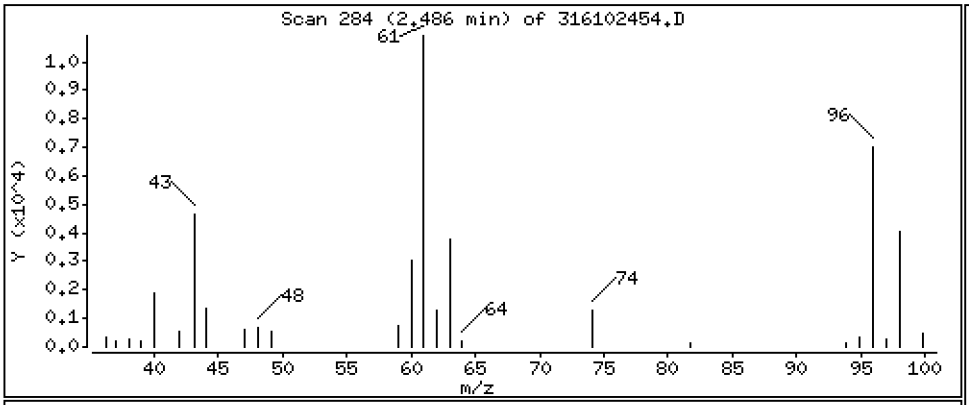
Client ID: Instrument: ms03.i

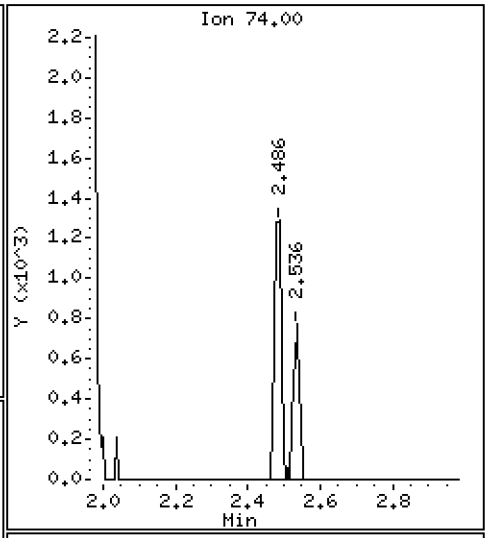
Sample Info: 1234;;1;1;1;;;

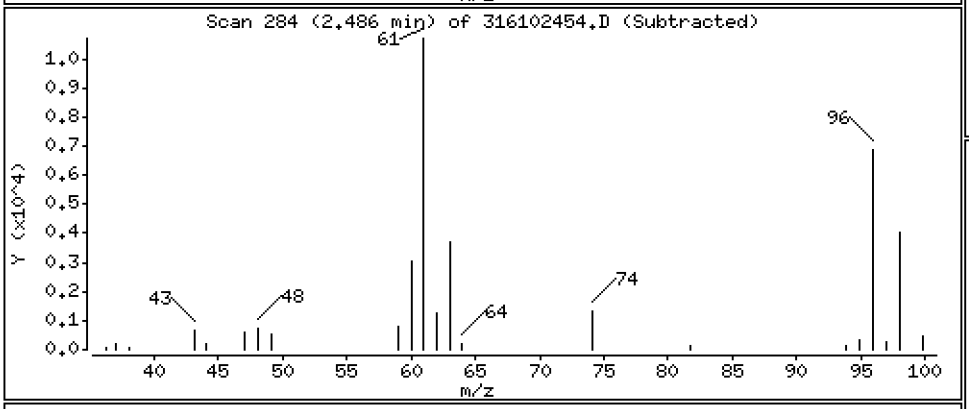
Purge Volume: 5.0 Operator: CJG

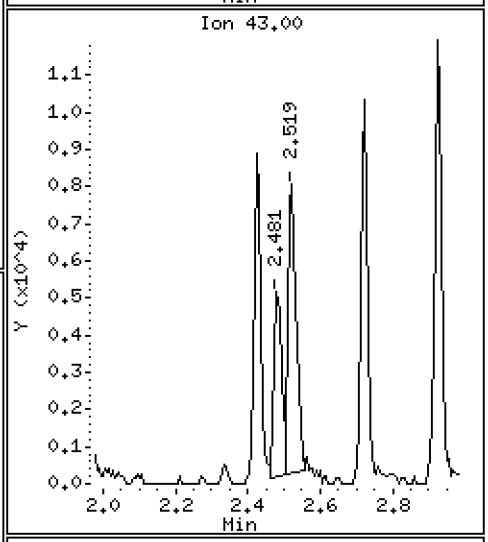
Column phase: DB-VRX Column diameter: 0.25

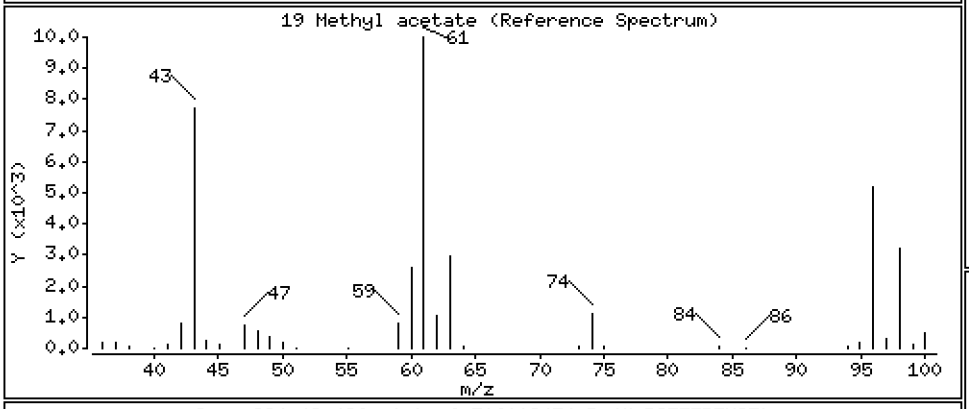
19 Methyl acetate Concentration: 1.15925 ug/L

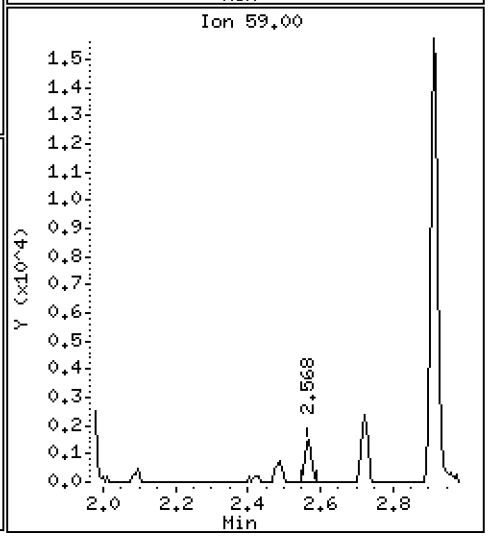


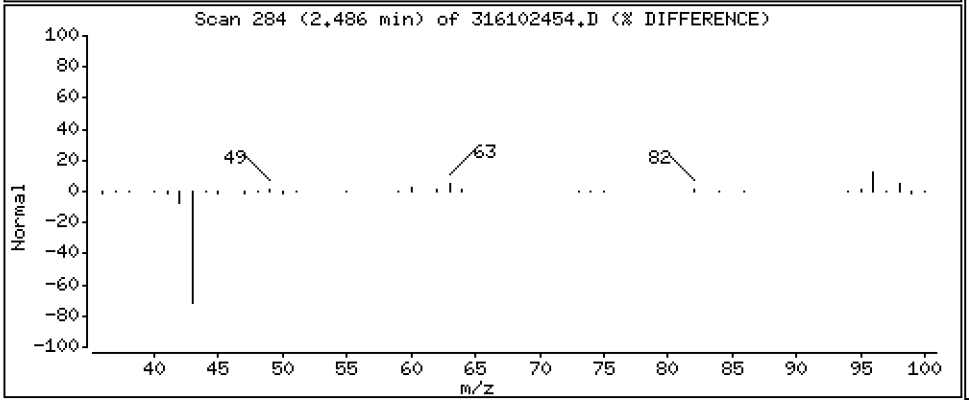












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 28

Date : 24-OCT-2016 23:46

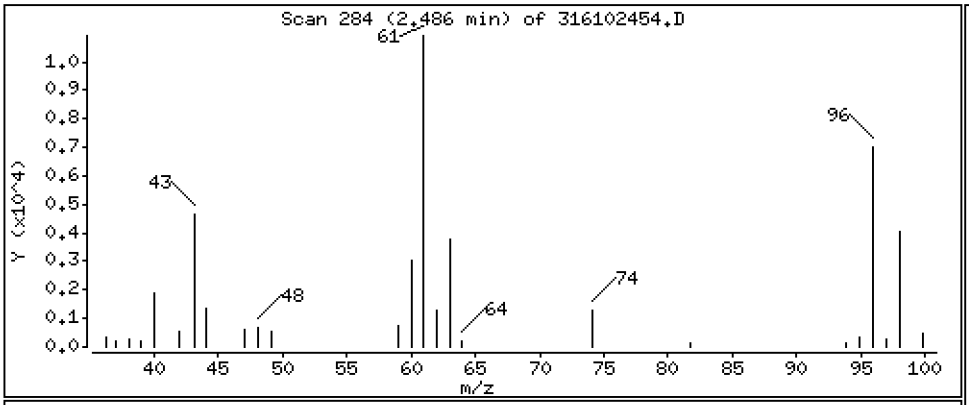
Client ID: Instrument: ms03.i

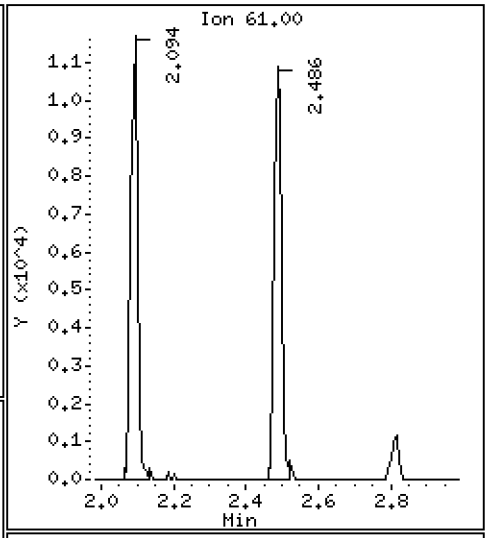
Sample Info: 1234;;1;1;1;;;

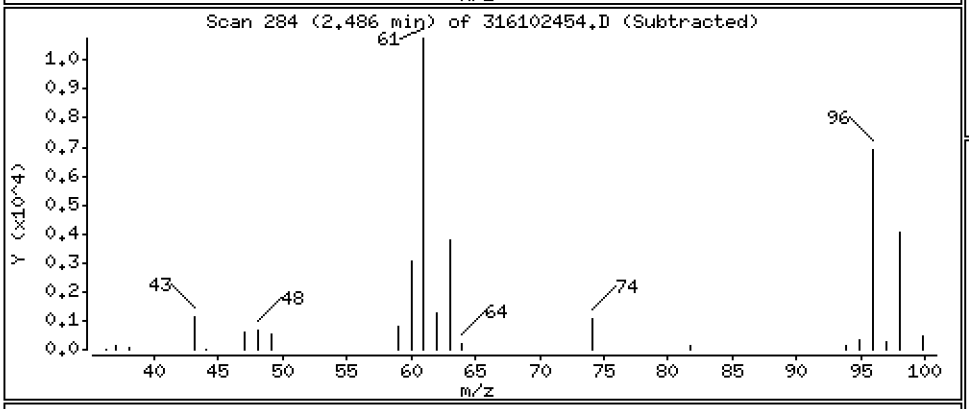
Purge Volume: 5.0 Operator: CJG

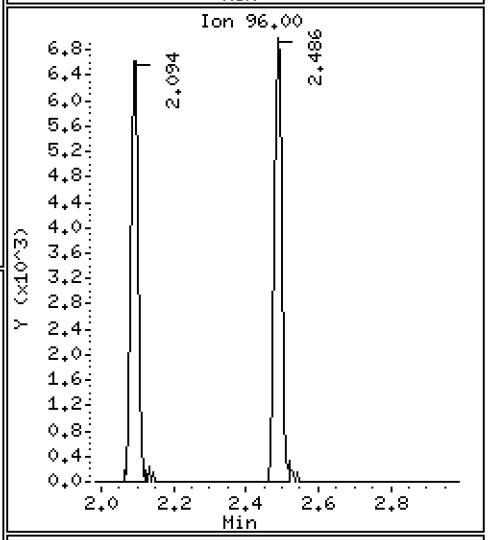
Column phase: DB-VRX Column diameter: 0.25

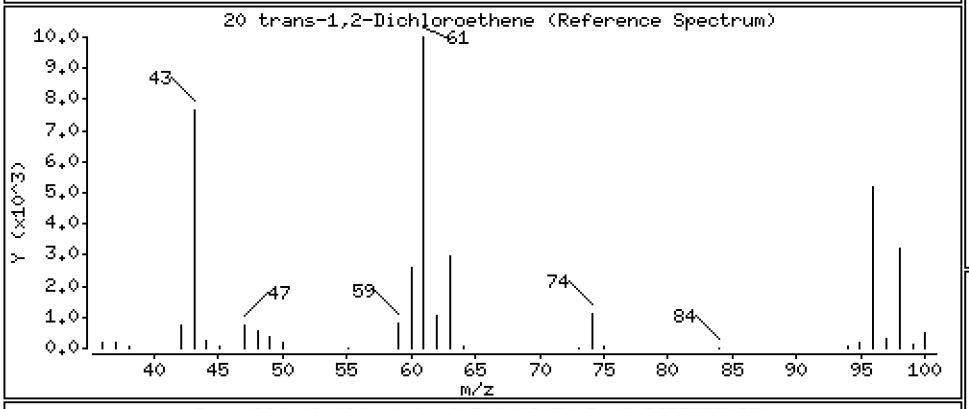
20 trans-1,2-Dichloroethene Concentration: 1.17397 ug/L

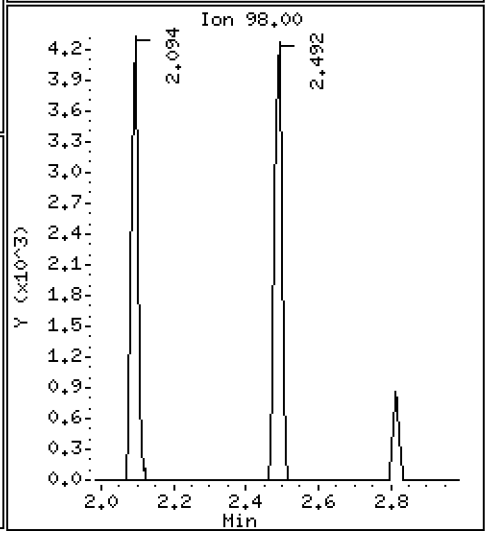


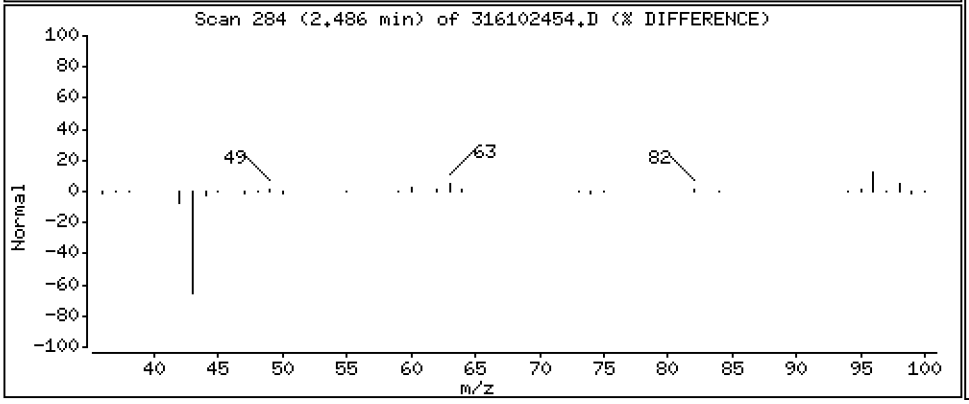












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 29

Date : 24-OCT-2016 23:46

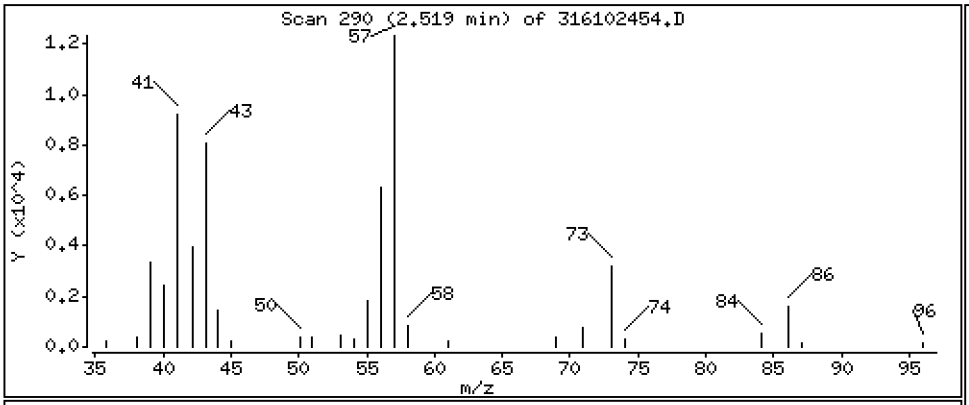
Client ID: Instrument: ms03.i

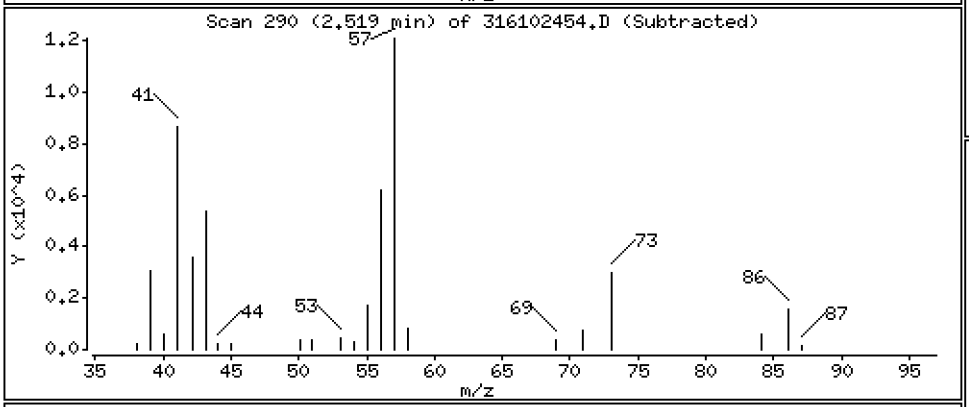
Sample Info: 1234;;1;1;1;;;

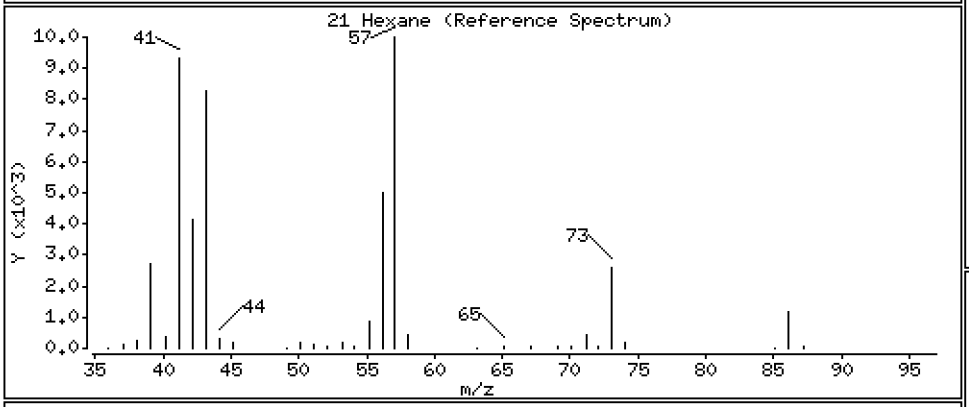
Purge Volume: 5.0 Operator: CJG

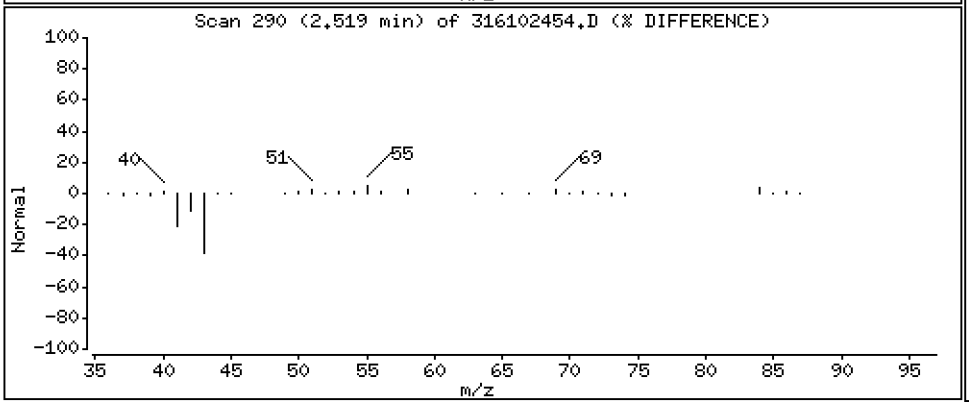
Column phase: DB-VRX Column diameter: 0.25

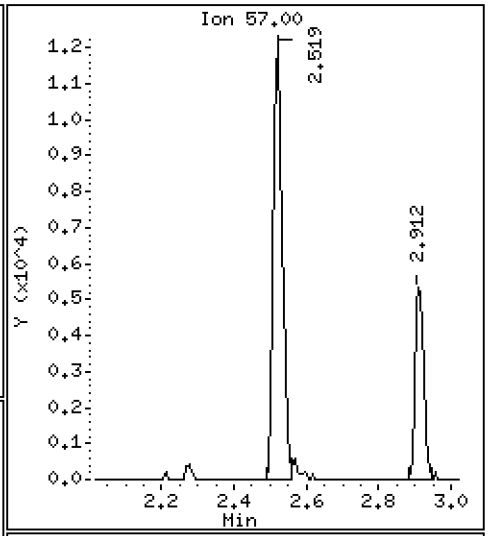
21 Hexane Concentration: 1.15589 ug/L

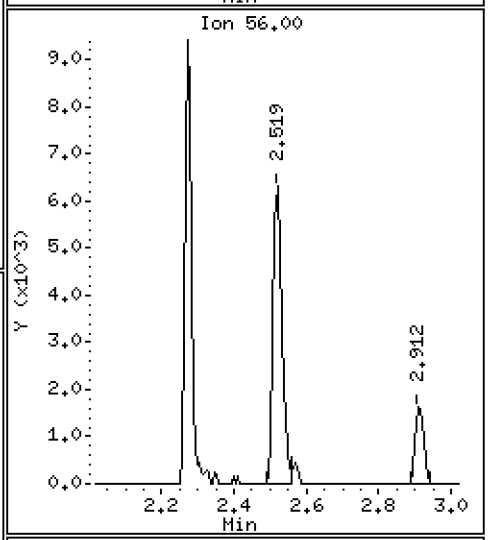


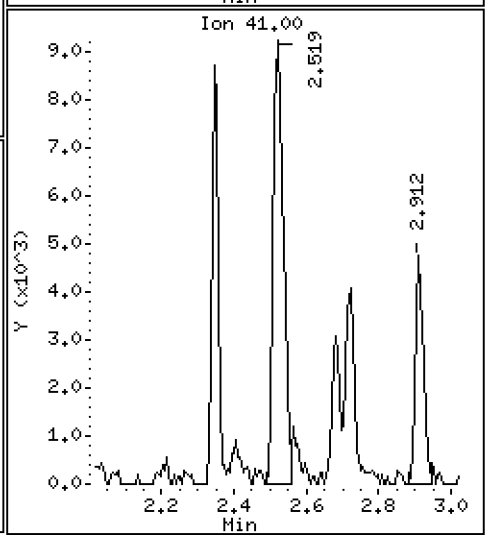












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 30

Date : 24-OCT-2016 23:46

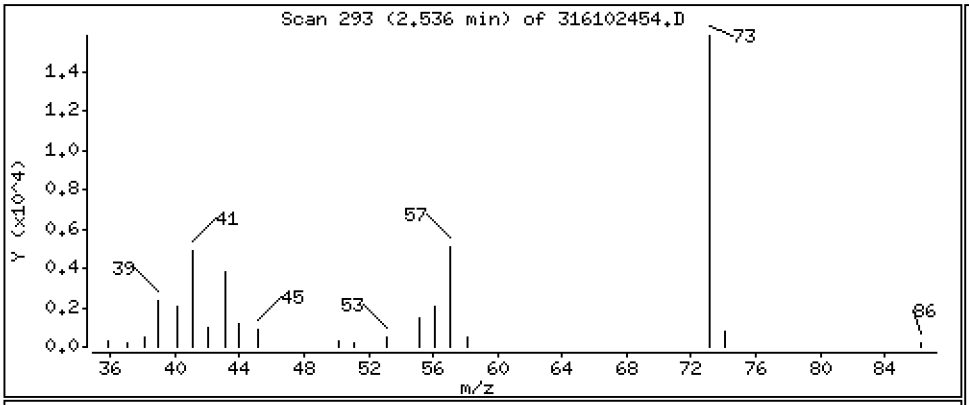
Client ID: Instrument: ms03.i

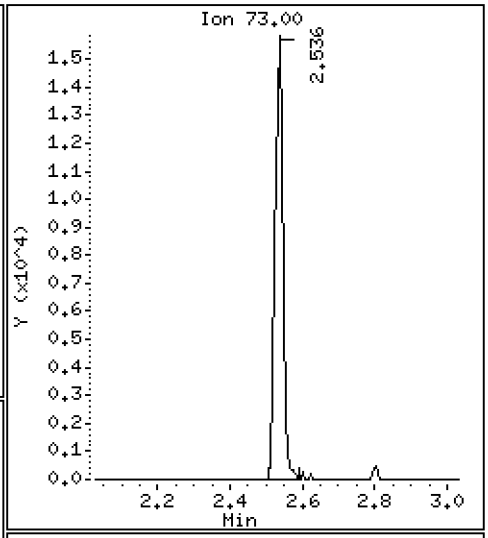
Sample Info: 1234;;1;1;1;;;

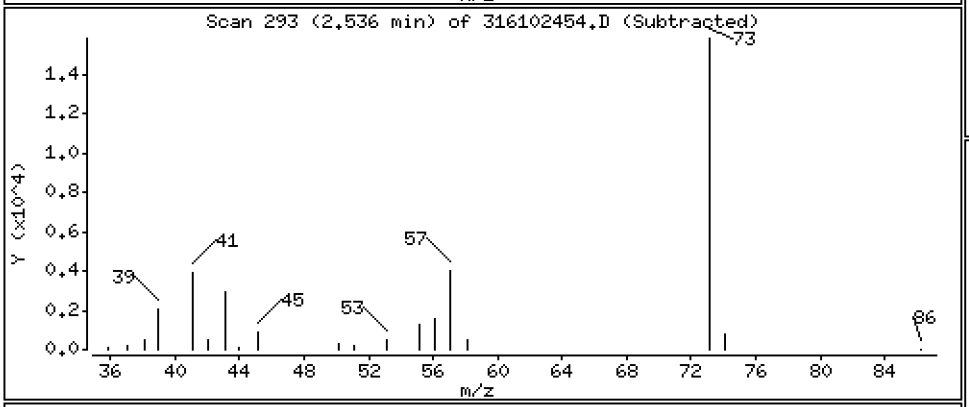
Purge Volume: 5.0 Operator: CJG

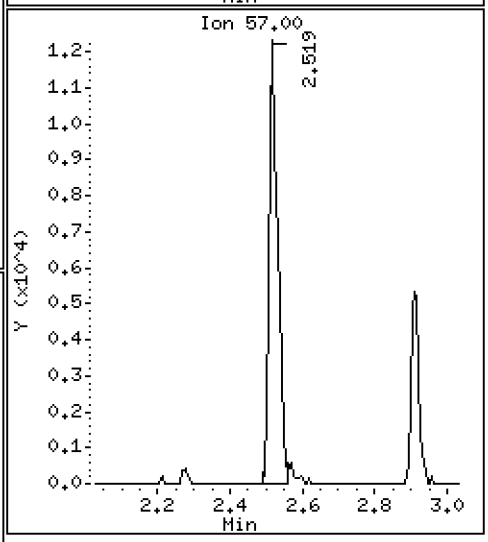
Column phase: DB-VRX Column diameter: 0.25

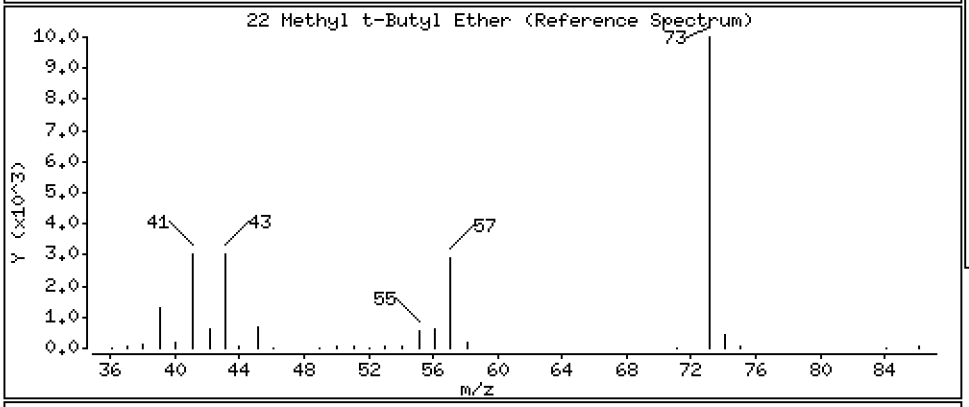
22 Methyl t-Butyl Ether Concentration: 1.04728 ug/L

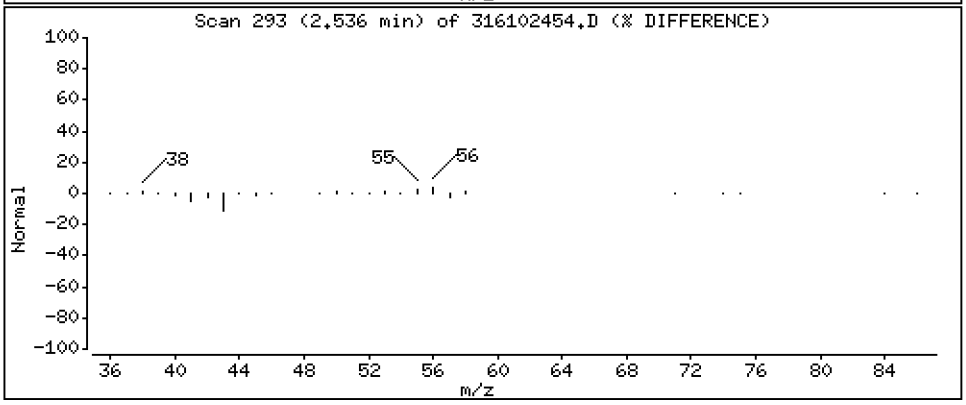












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 31

Date : 24-OCT-2016 23:46

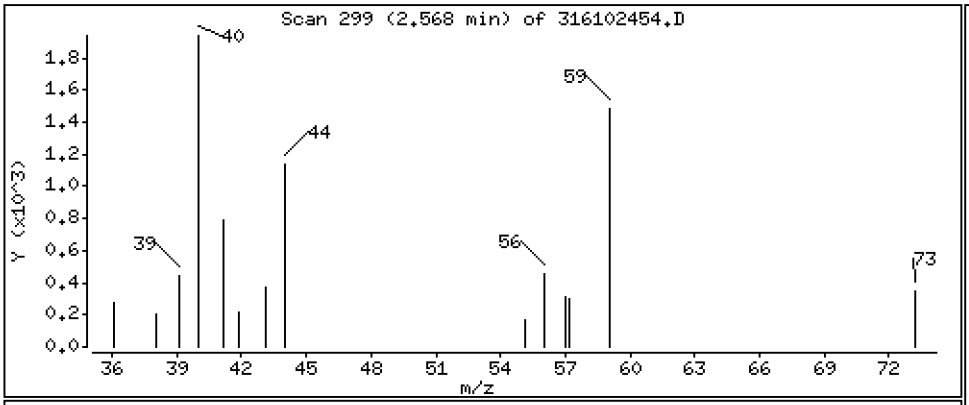
Client ID: Instrument: ms03.i

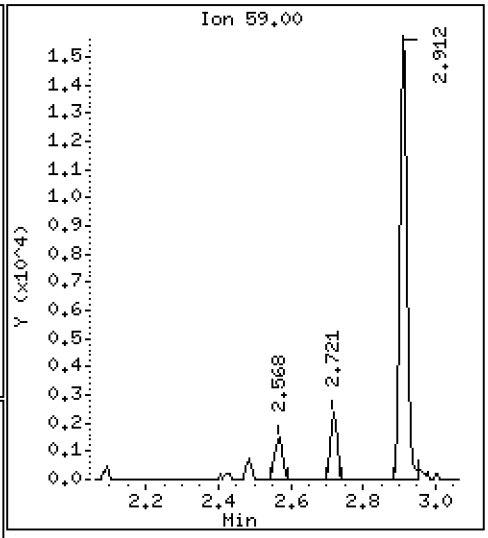
Sample Info: 1234;;1;1;1;;;

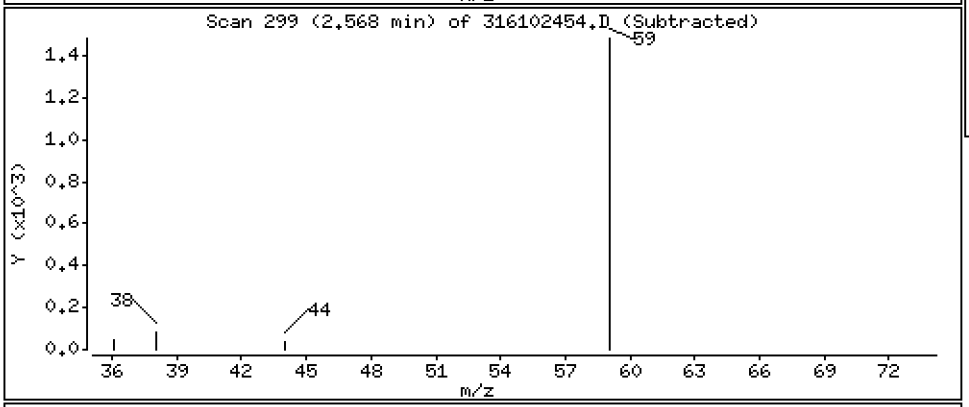
Purge Volume: 5.0 Operator: CJG

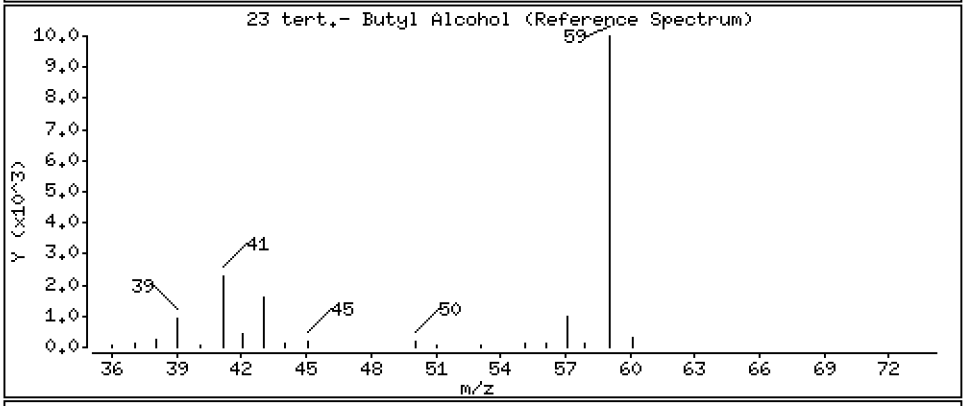
Column phase: DB-VRX Column diameter: 0.25

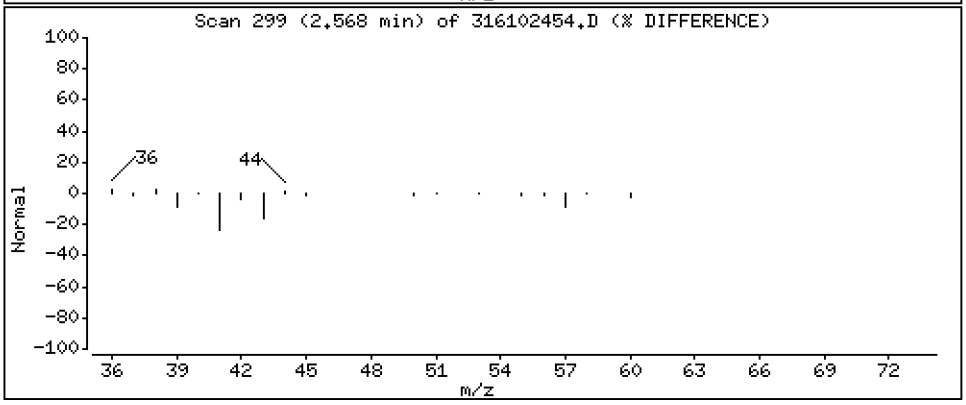
23 tert.- Butyl Alcohol Concentration: 4.66272 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 32

Date : 24-OCT-2016 23:46

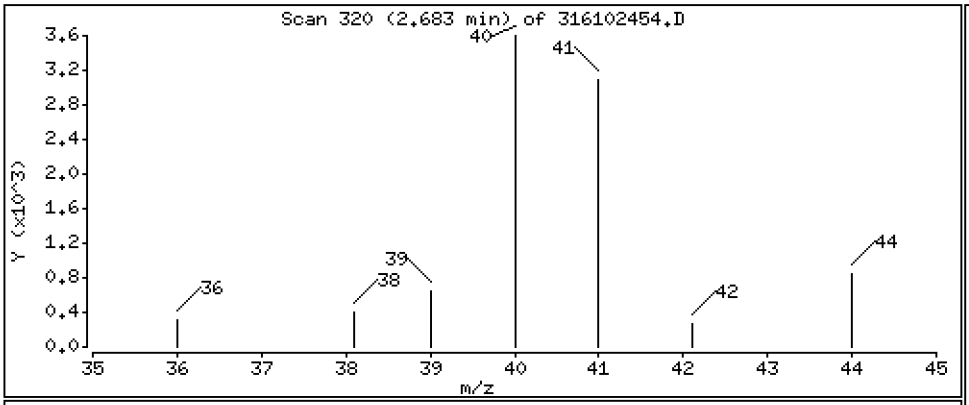
Client ID: Instrument: ms03.i

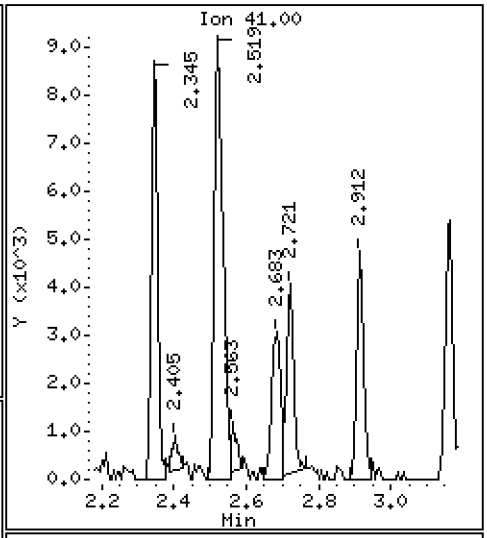
Sample Info: 1234;;1;1;1;;;

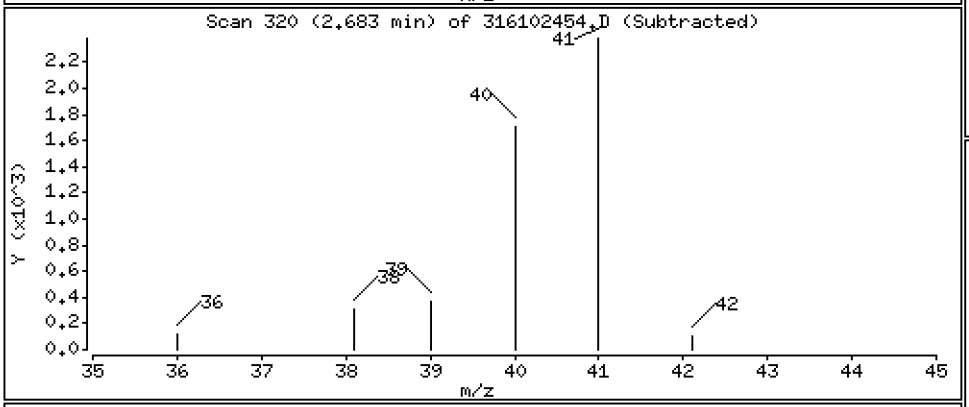
Purge Volume: 5.0 Operator: CJG

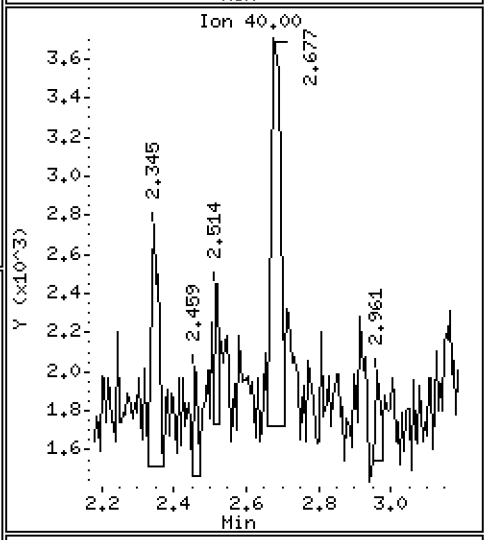
Column phase: DB-VRX Column diameter: 0.25

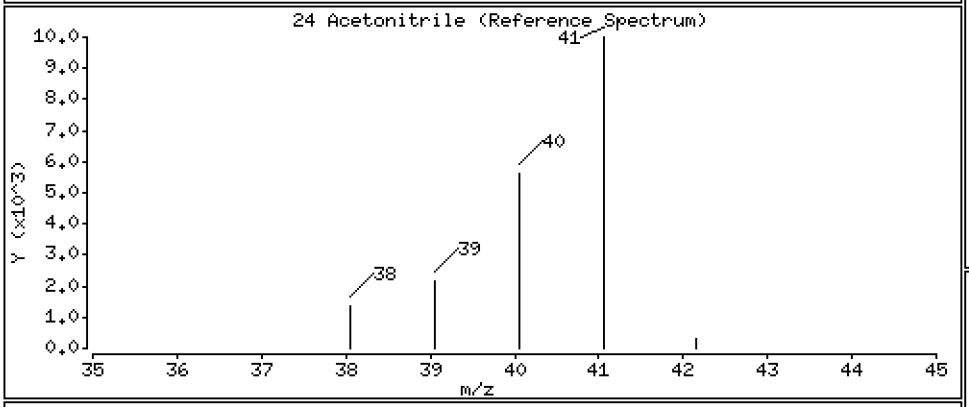
24 Acetonitrile Concentration: 6.32664 ug/L

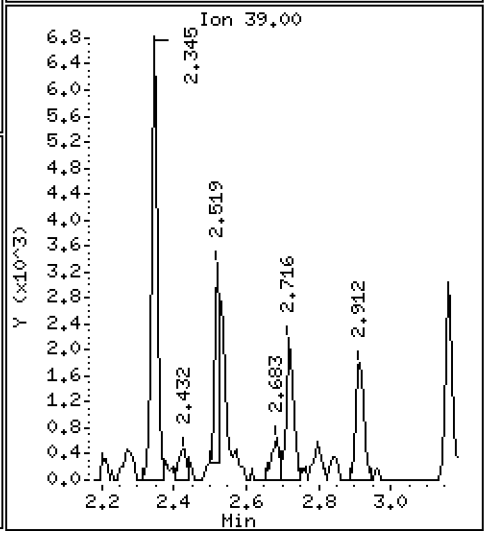


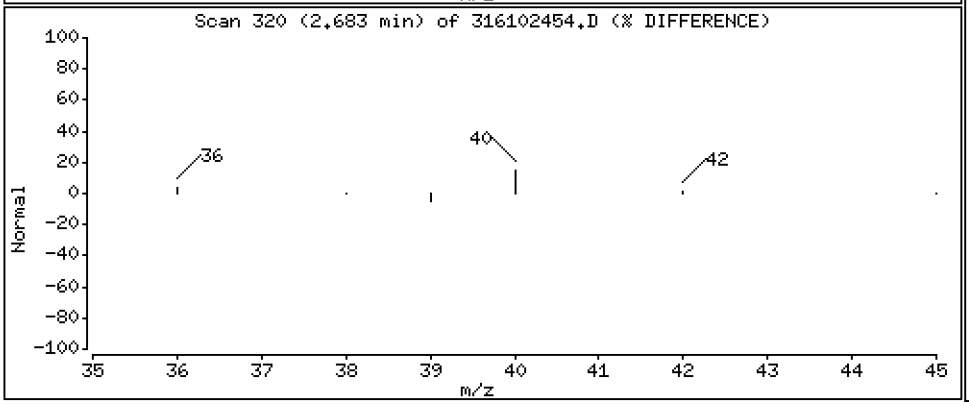












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 33

Date : 24-OCT-2016 23:46

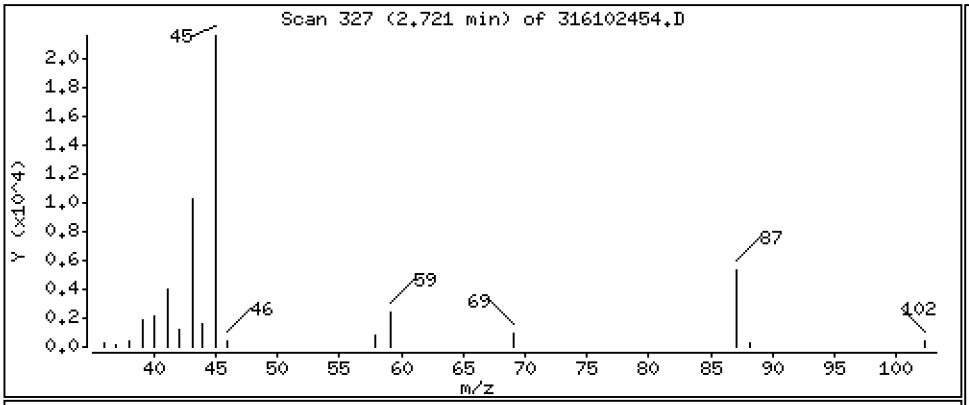
Client ID: Instrument: ms03.i

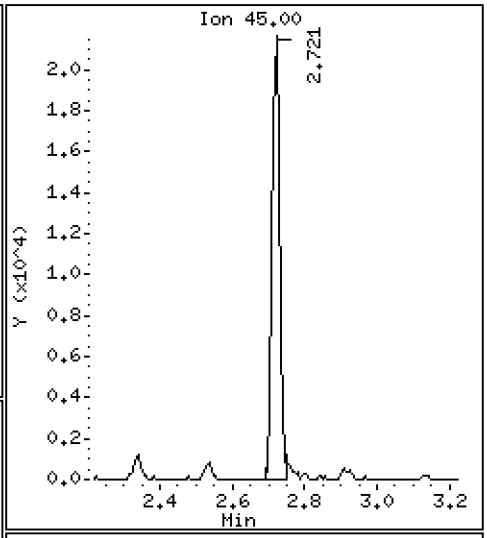
Sample Info: 1234;;1;1;1;;;

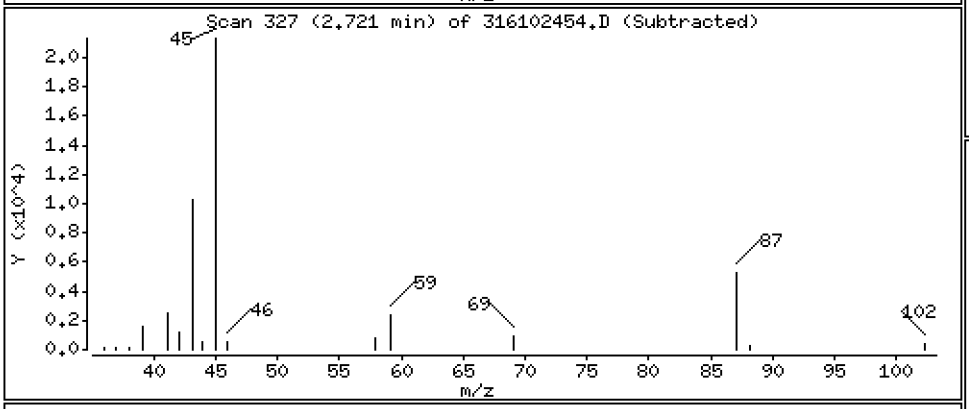
Purge Volume: 5.0 Operator: CJG

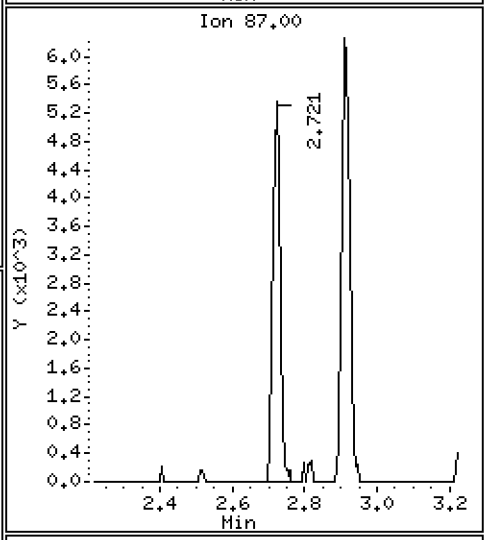
Column phase: DB-VRX Column diameter: 0.25

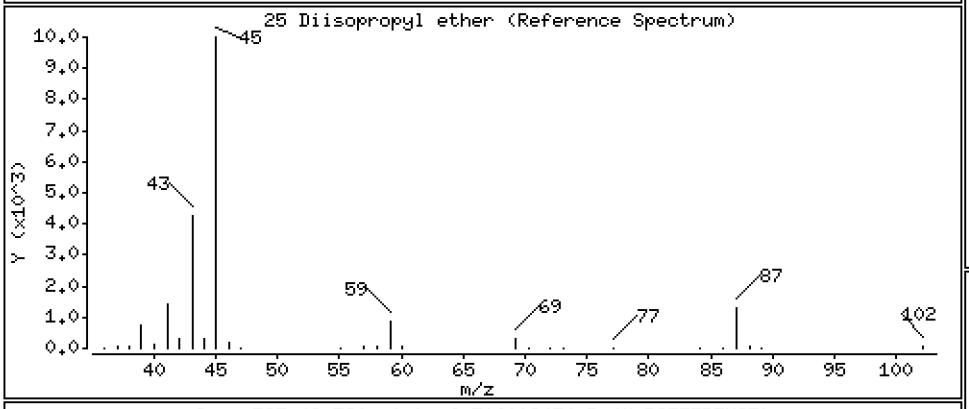
25 Diisopropyl ether Concentration: 0.958541 ug/L

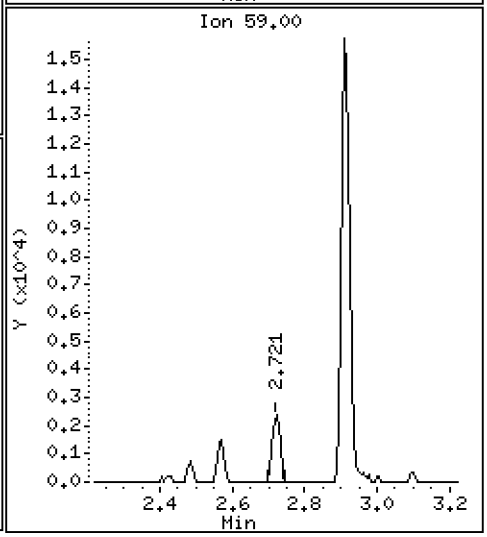


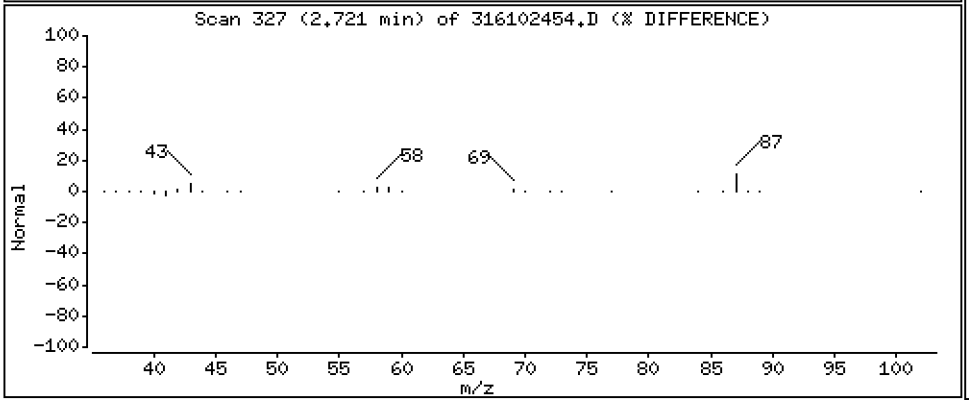












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 34

Date : 24-OCT-2016 23:46

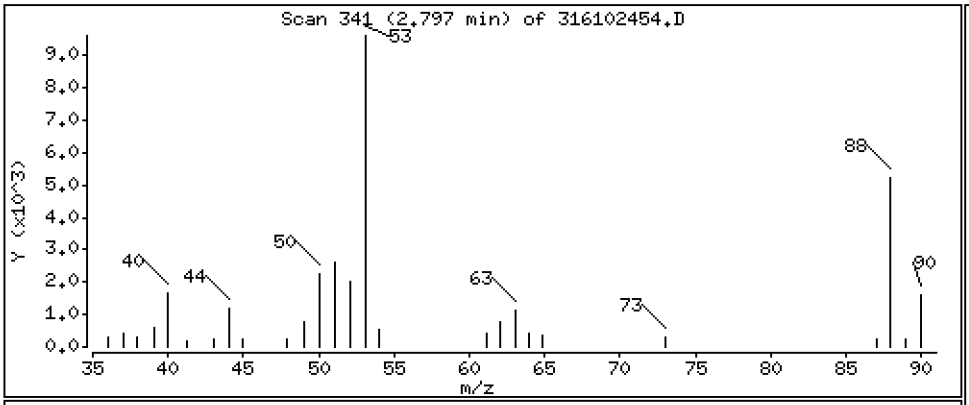
Client ID: Instrument: ms03.i

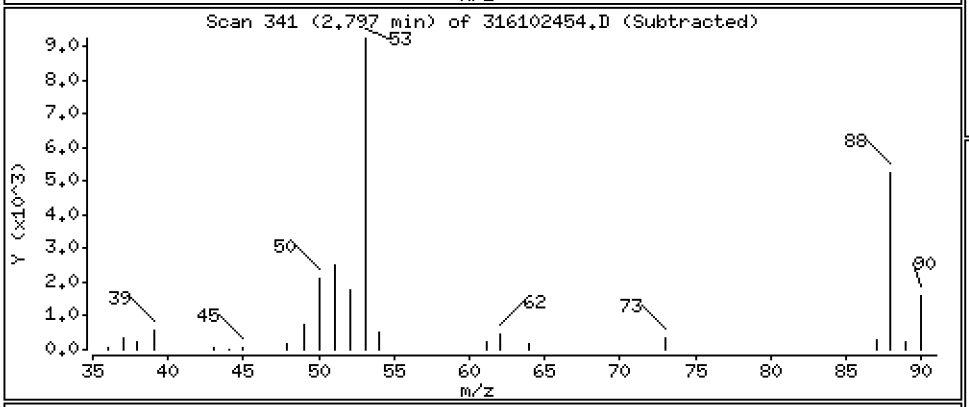
Sample Info: 1234;;1;1;1;;;

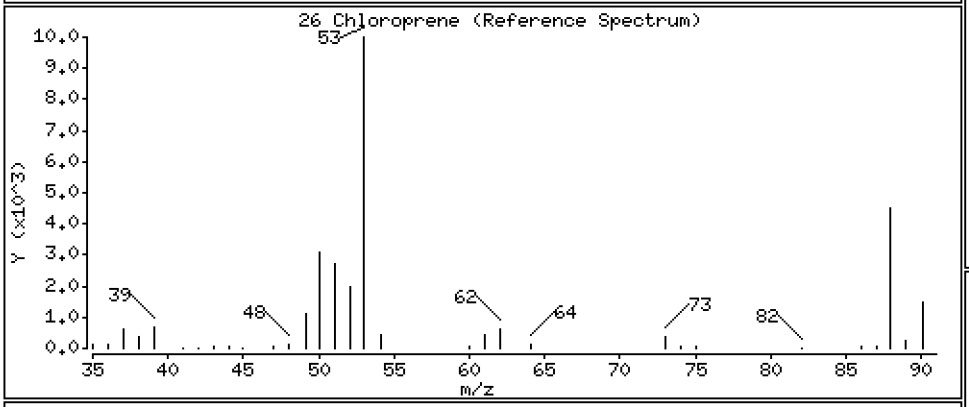
Purge Volume: 5.0 Operator: CJG

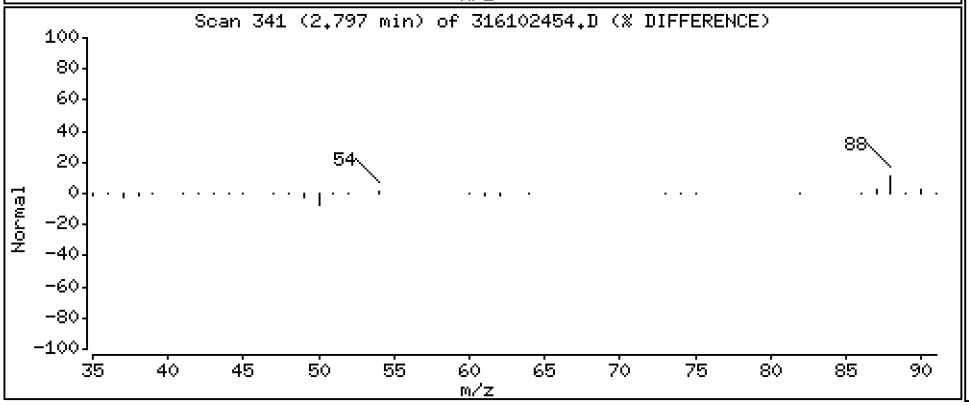
Column phase: DB-VRX Column diameter: 0.25

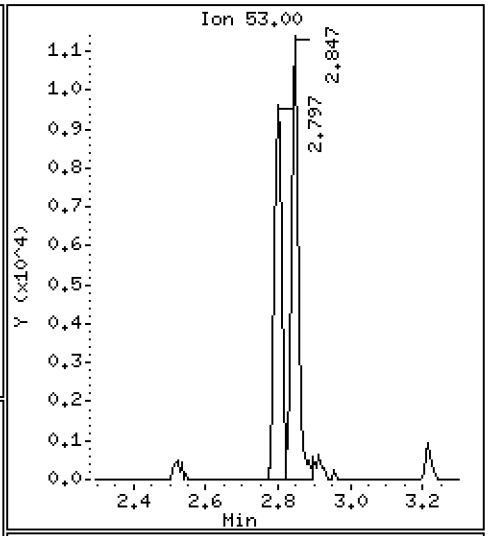
26 Chloroprene Concentration: 1.03710 ug/L

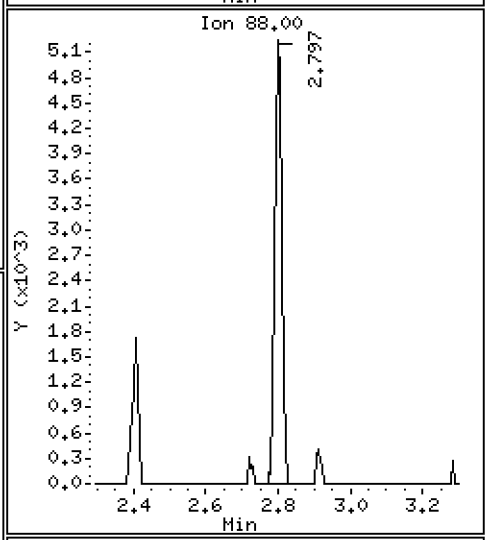


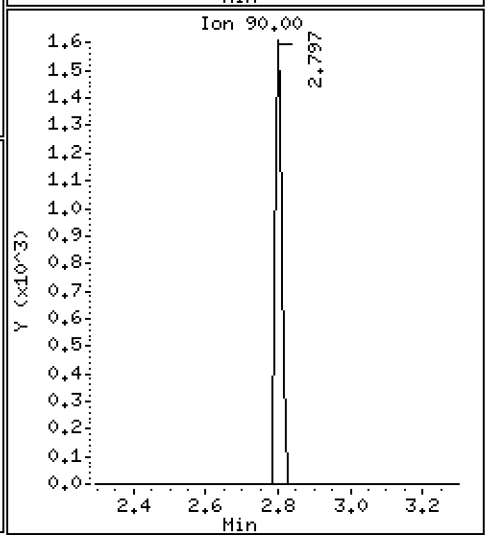












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 35

Date : 24-OCT-2016 23:46

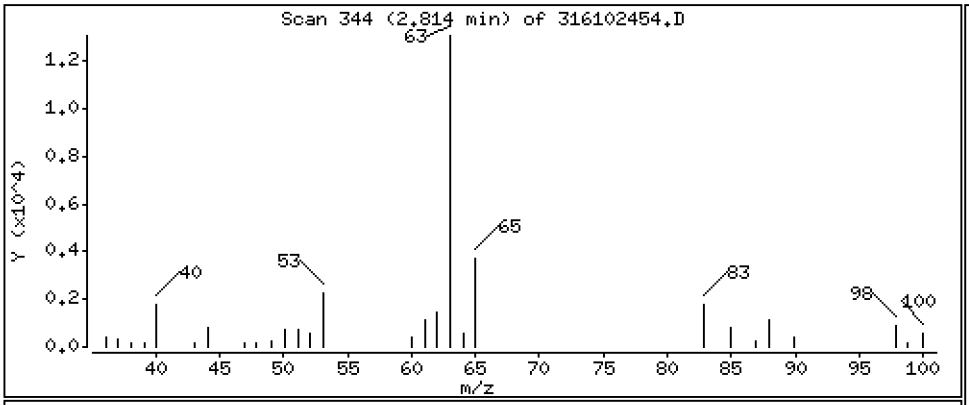
Client ID: Instrument: ms03.i

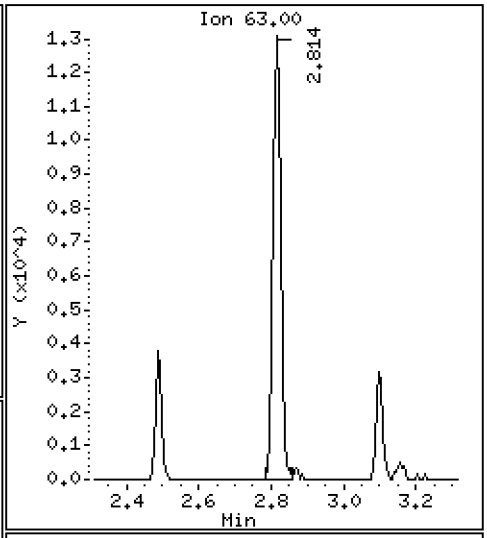
Sample Info: 1234;;1;1;1;;;

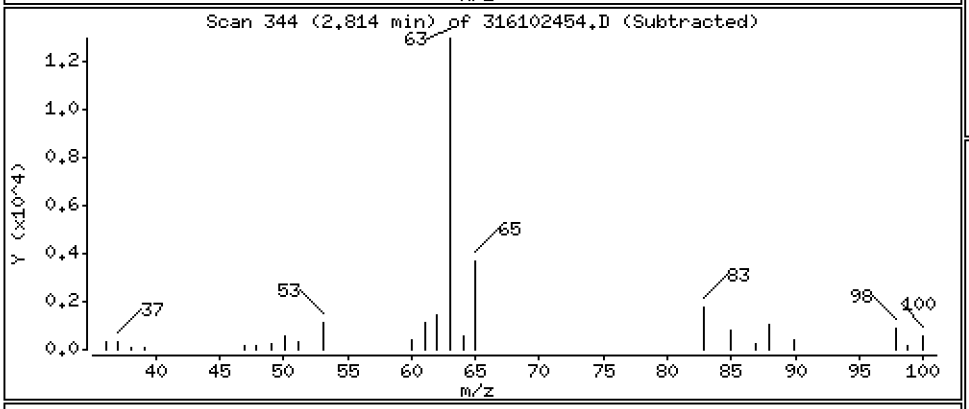
Purge Volume: 5.0 Operator: CJG

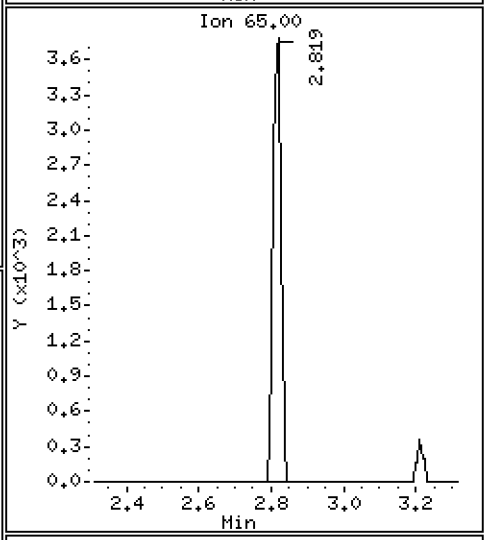
Column phase: DB-VRX Column diameter: 0.25

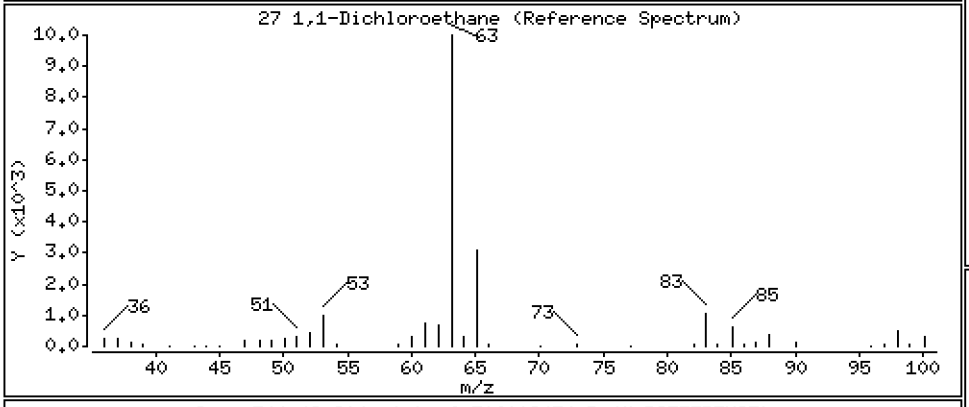
27 1,1-Dichloroethane Concentration: 1.16489 ug/L

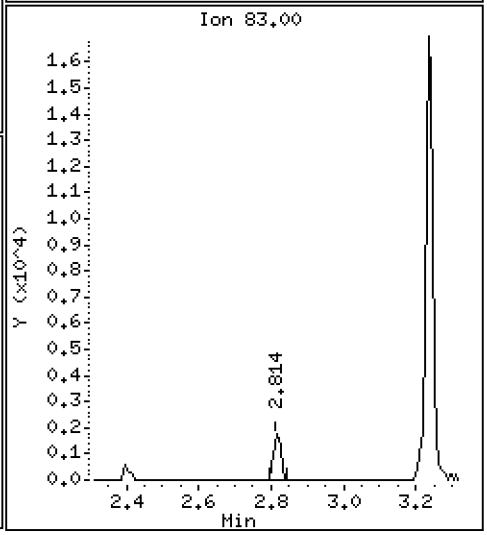


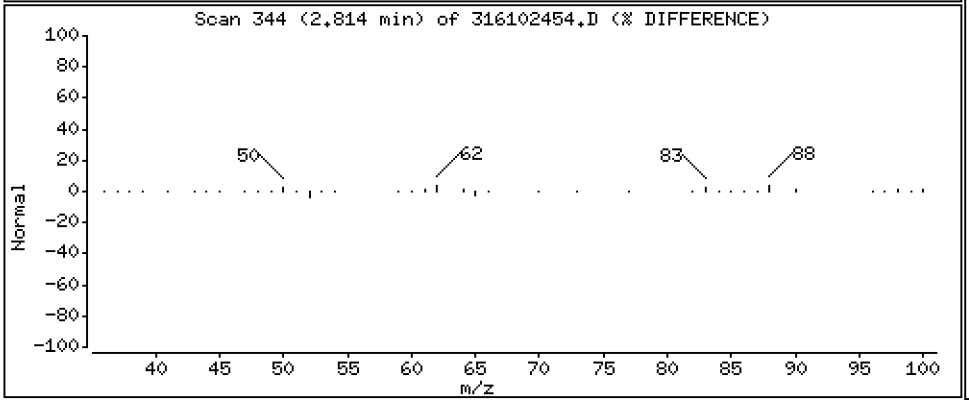












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 36

Date : 24-OCT-2016 23:46

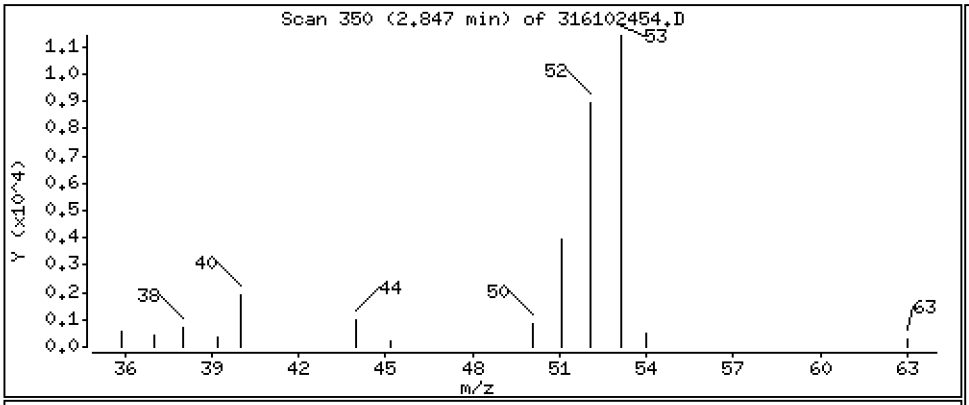
Client ID: Instrument: ms03.i

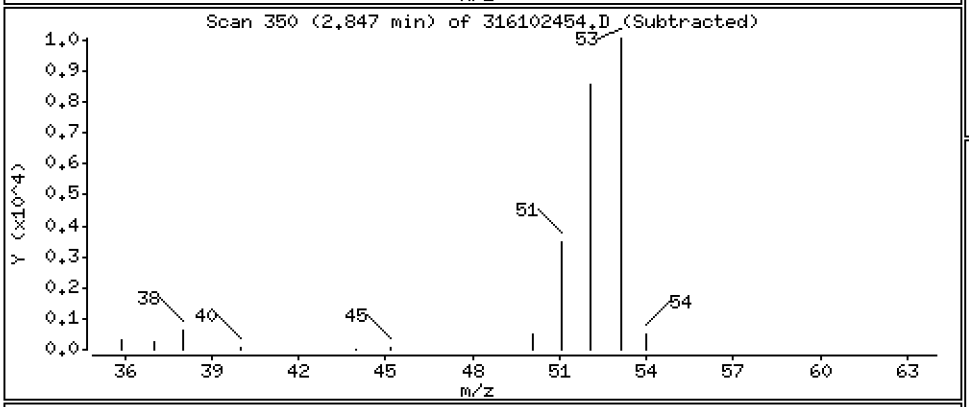
Sample Info: 1234;;1;1;1;;;

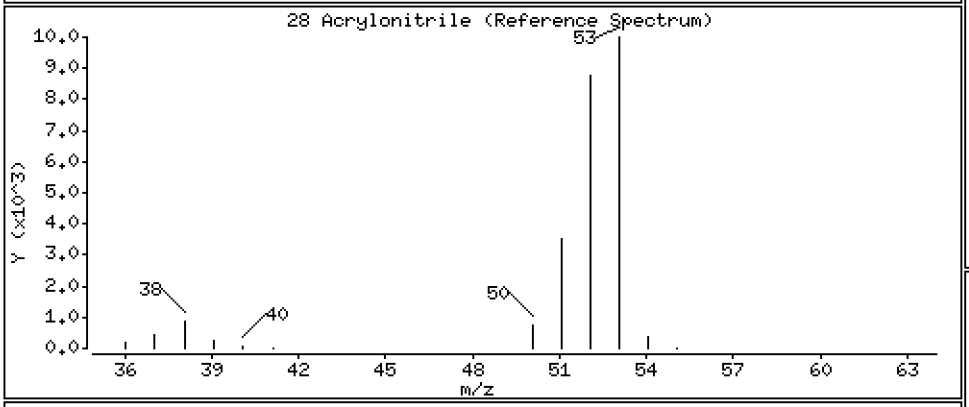
Purge Volume: 5.0 Operator: CJG

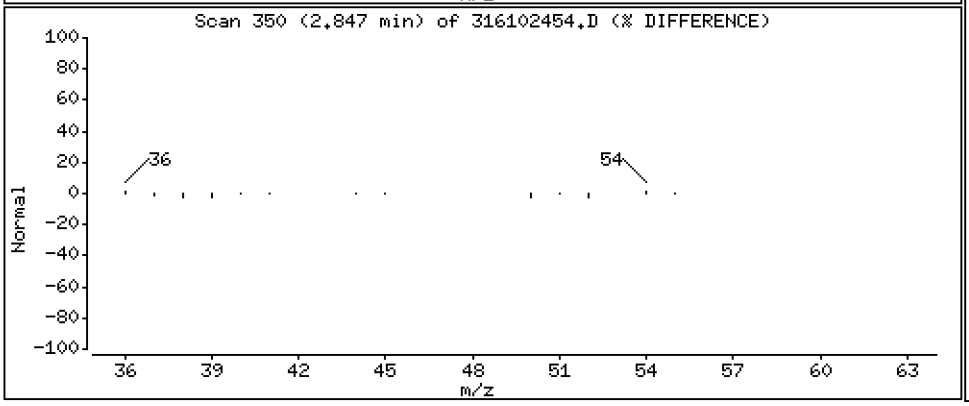
Column phase: DB-VRX Column diameter: 0.25

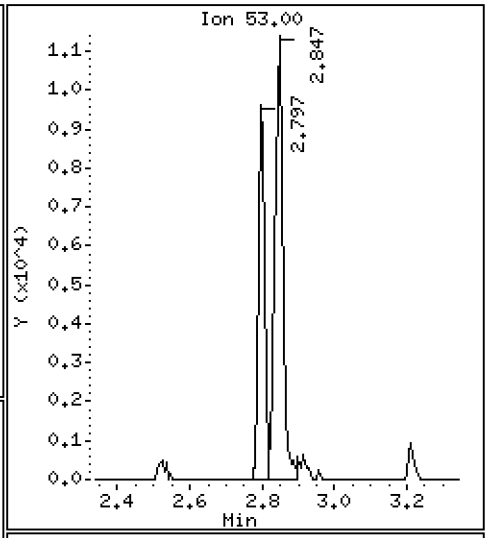
28 Acrylonitrile Concentration: 5.66367 ug/L

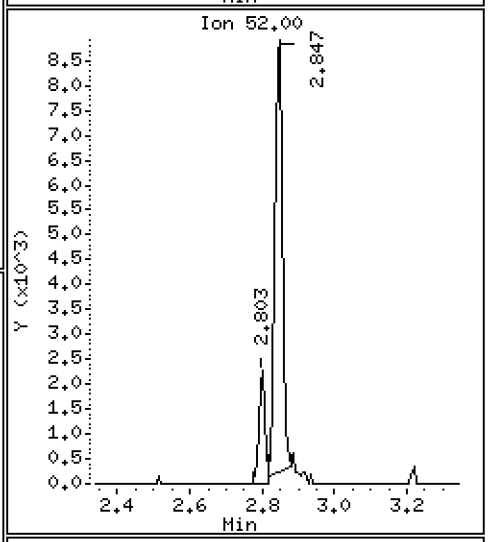


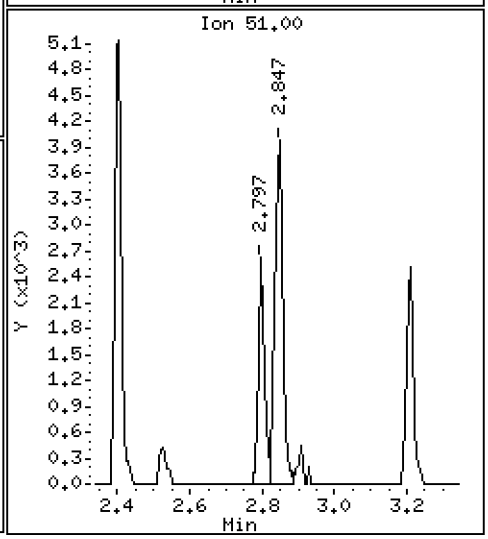












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 37

Date : 24-OCT-2016 23:46

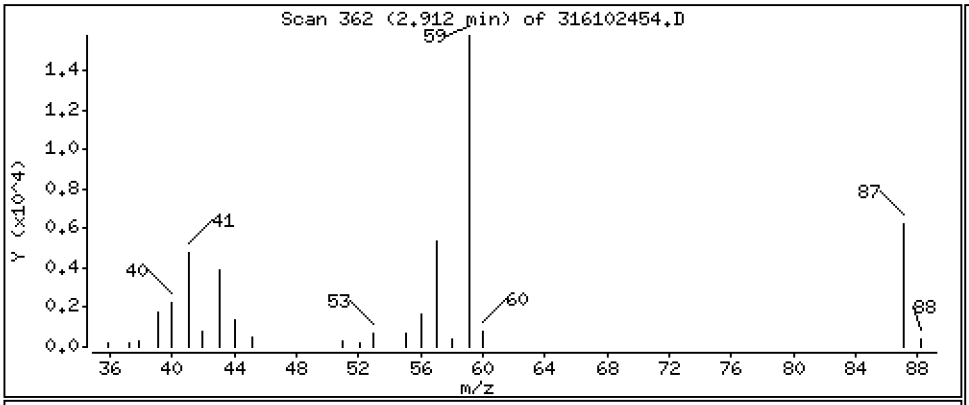
Client ID: Instrument: ms03.i

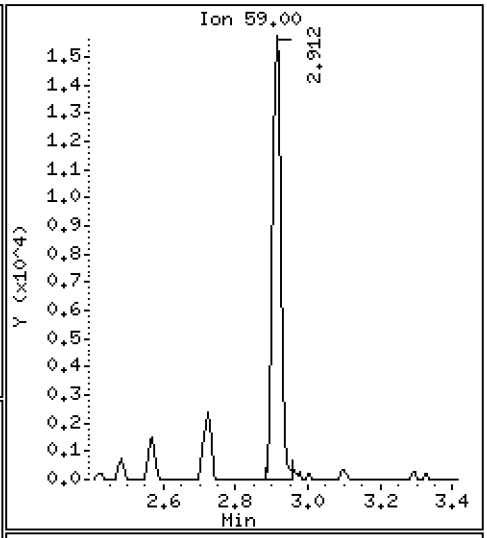
Sample Info: 1234;;1;1;1;;;

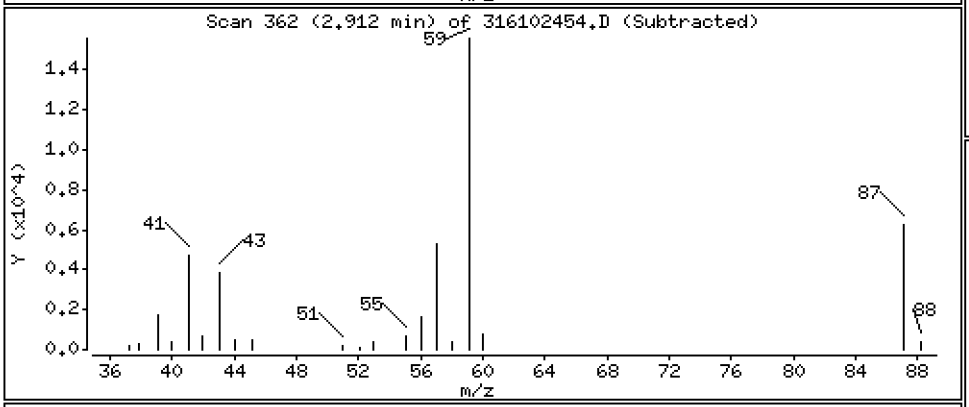
Purge Volume: 5.0 Operator: CJG

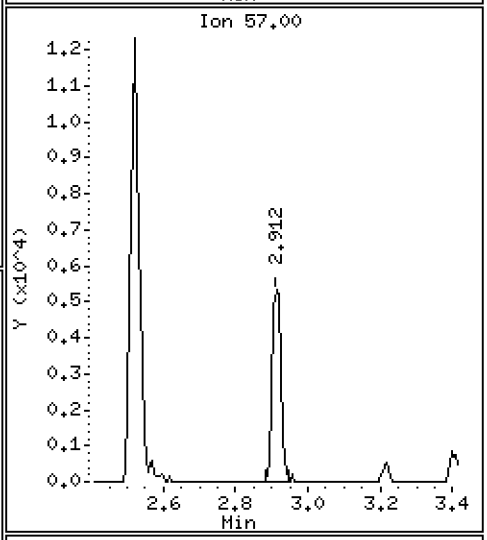
Column phase: DB-VRX Column diameter: 0.25

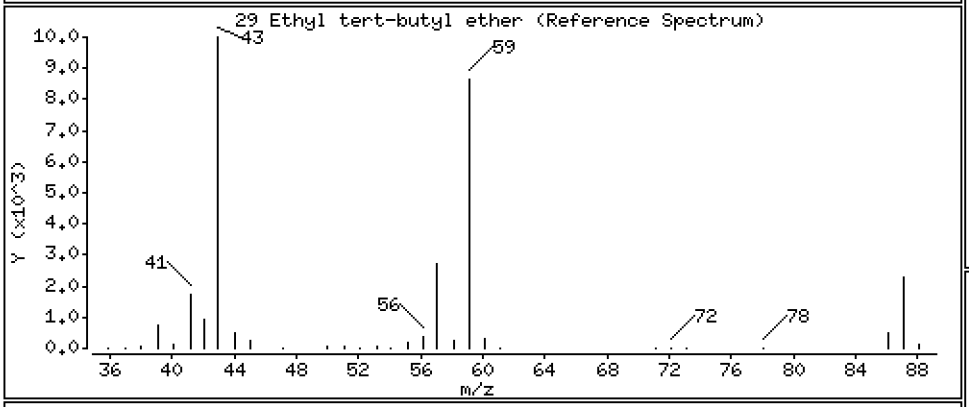
29 Ethyl tert-butyl ether Concentration: 0.917357 ug/L

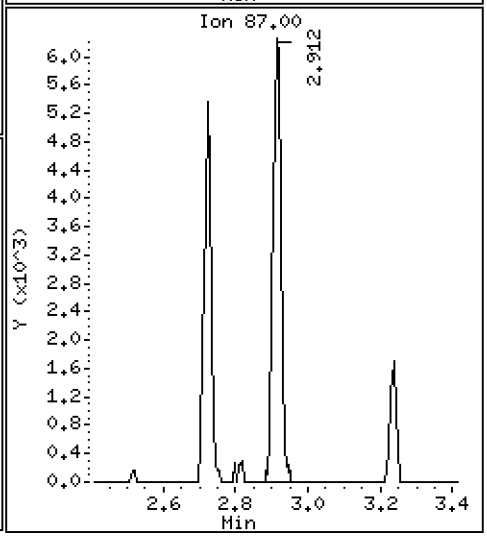


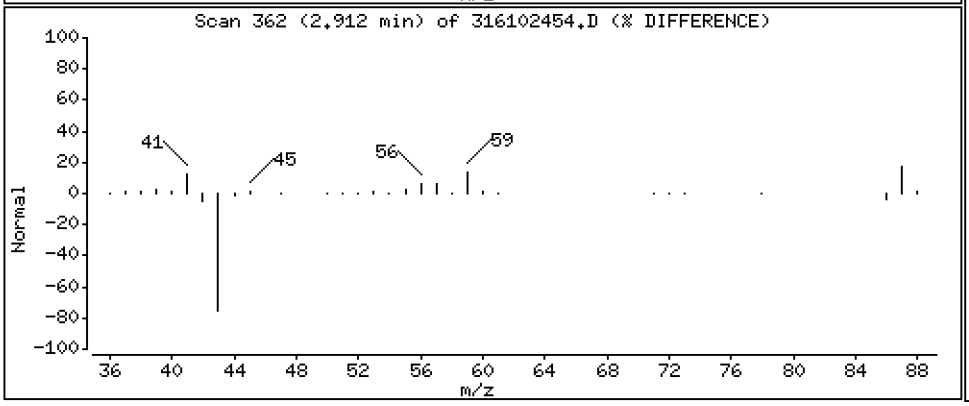












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 38

Date : 24-OCT-2016 23:46

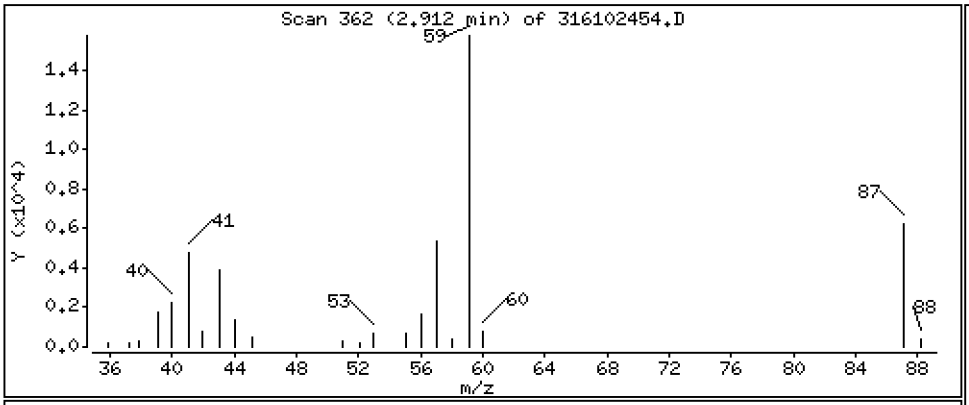
Client ID: Instrument: ms03.i

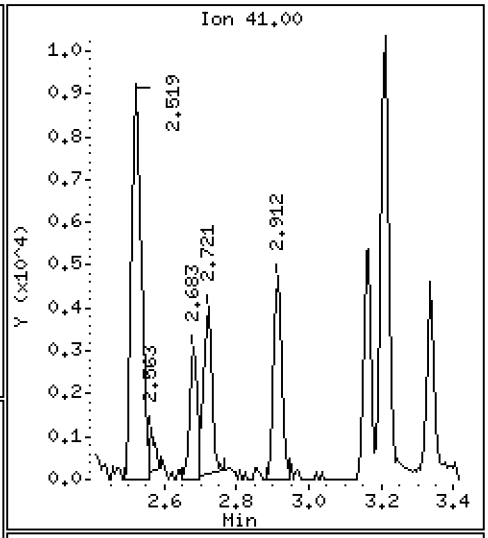
Sample Info: 1234;;1;1;1;;;

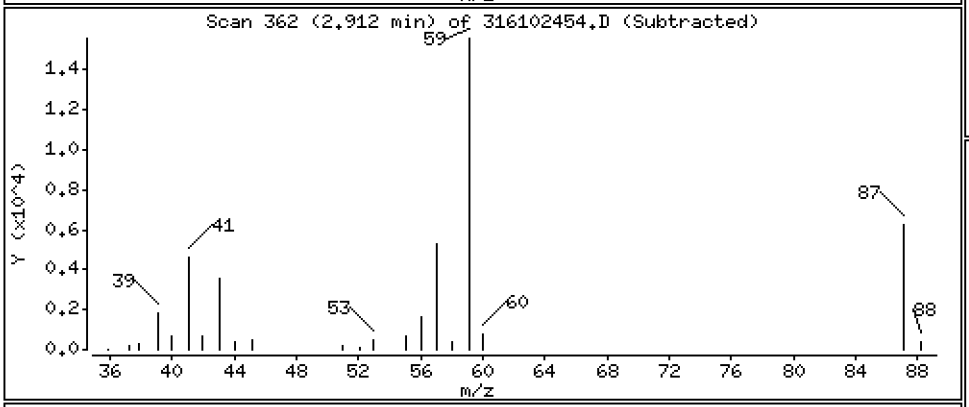
Purge Volume: 5.0 Operator: CJG

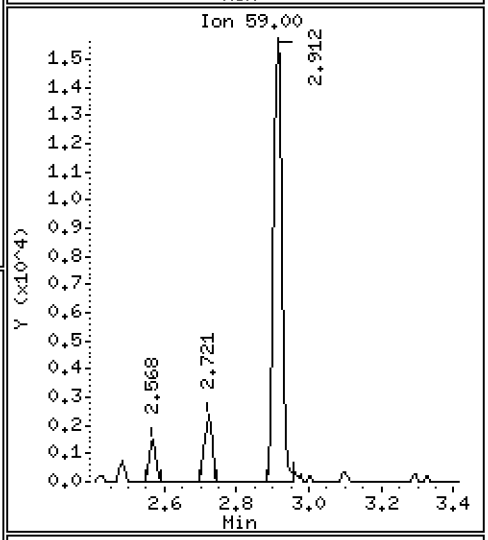
Column phase: DB-VRX Column diameter: 0.25

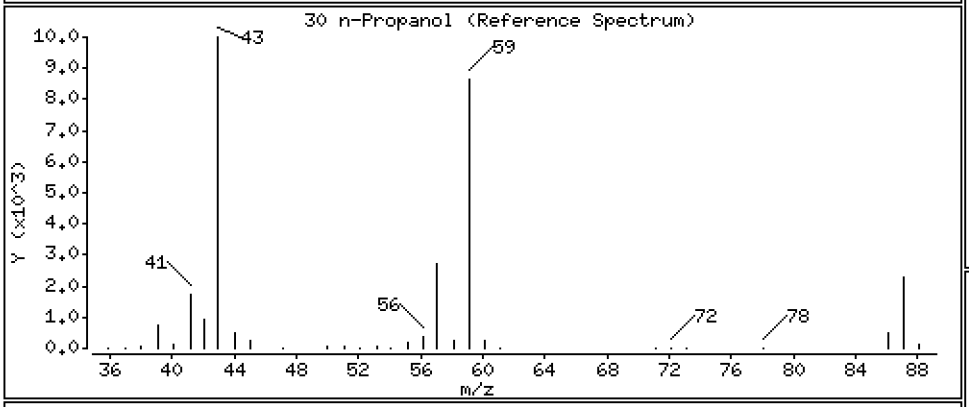
30 n-Propanol Concentration: 12.1090 ug/L

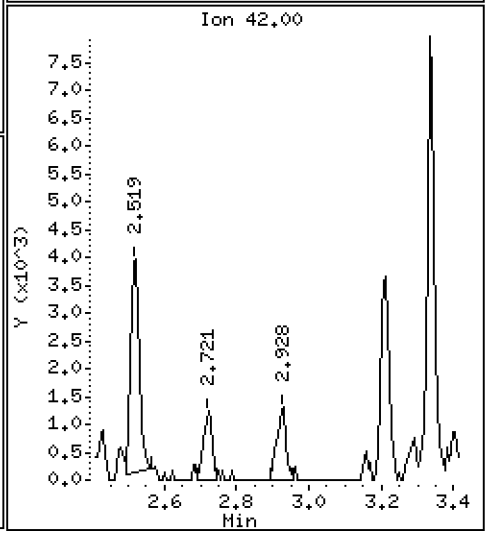


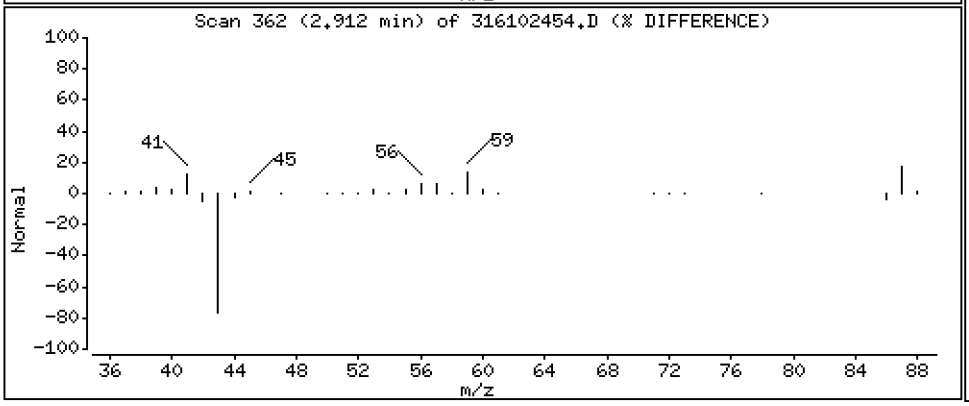












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 39

Date : 24-OCT-2016 23:46

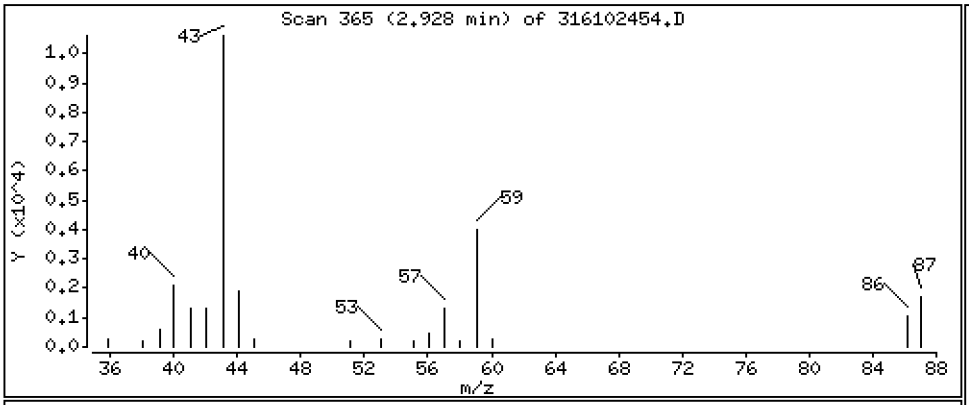
Client ID: Instrument: ms03.i

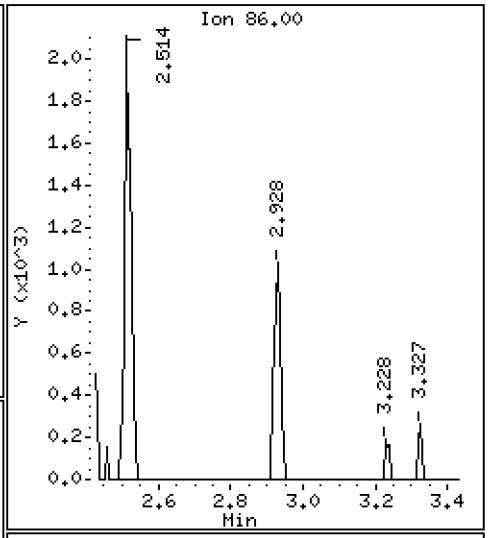
Sample Info: 1234;;1;1;1;;;

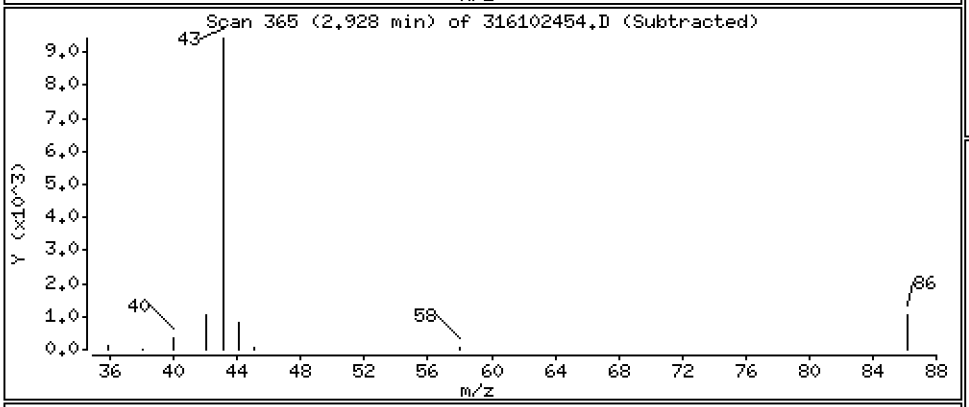
Purge Volume: 5.0 Operator: CJG

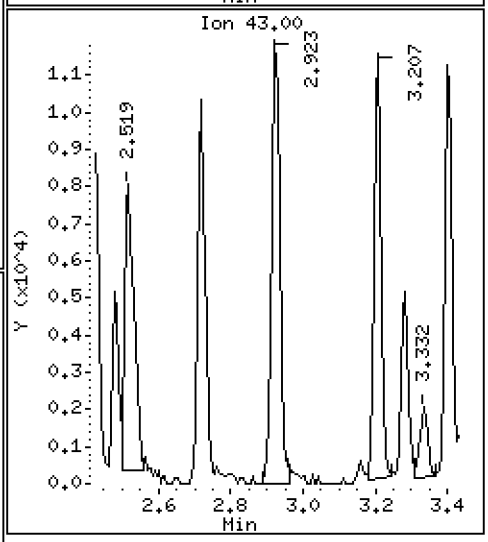
Column phase: DB-VRX Column diameter: 0.25

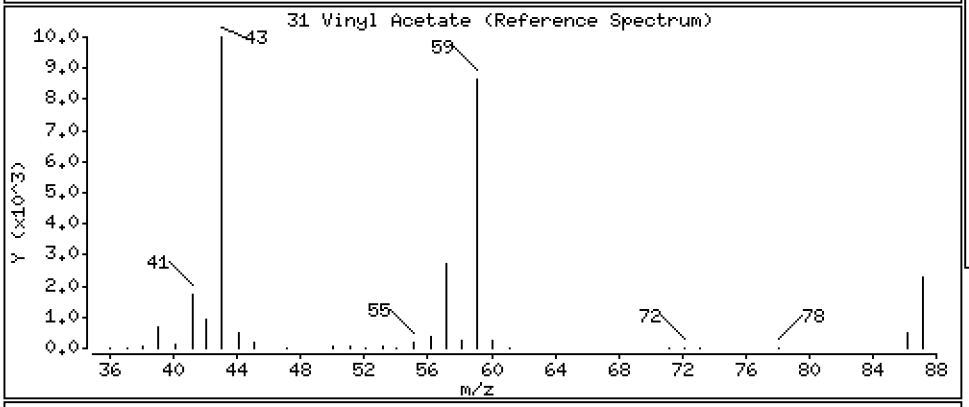
31 Vinyl Acetate Concentration: 0.670580 ug/L

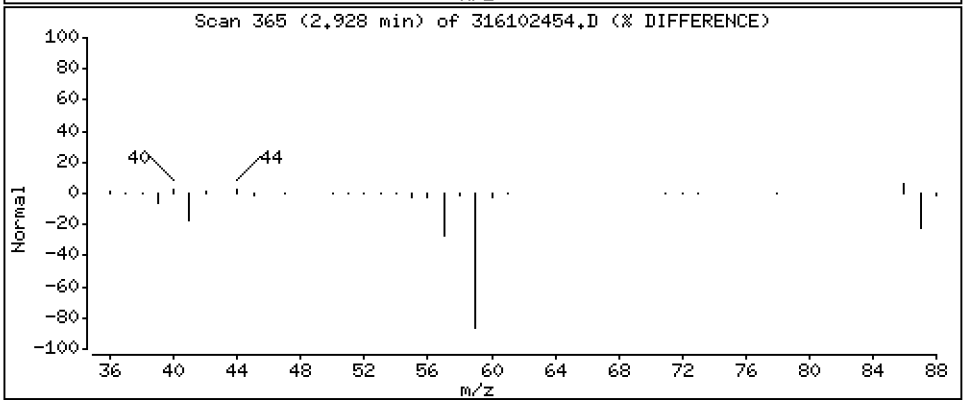












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 40

Date : 24-OCT-2016 23:46

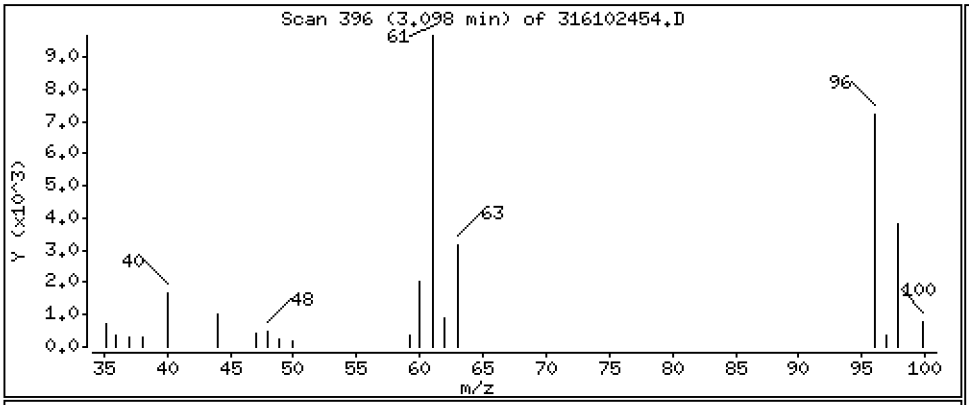
Client ID: Instrument: ms03.i

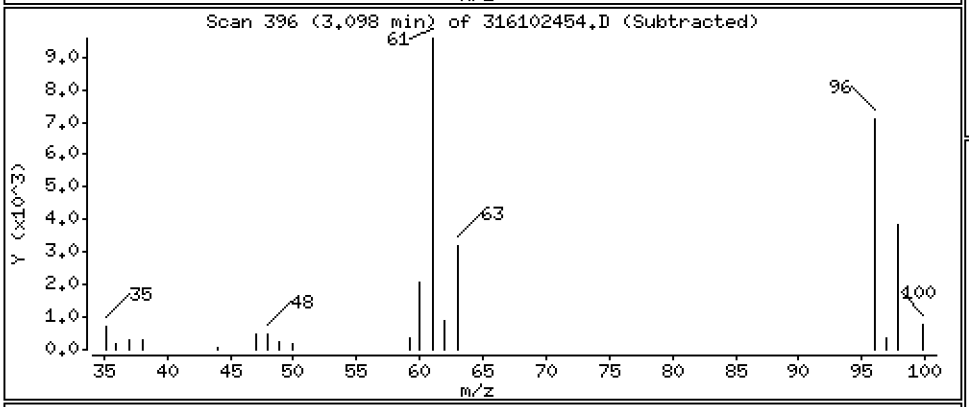
Sample Info: 1234;;1;1;1;;;

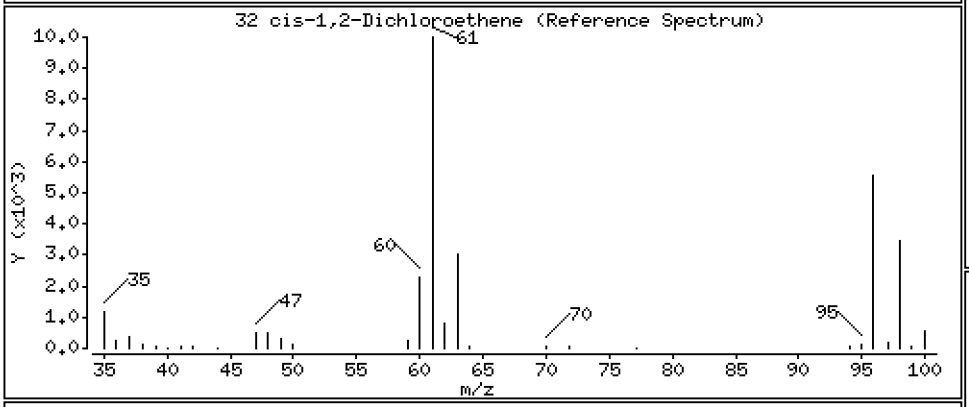
Purge Volume: 5.0 Operator: CJG

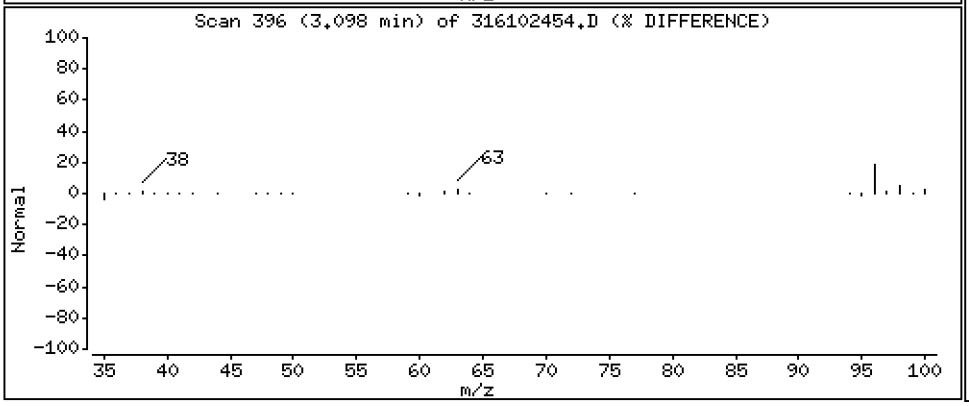
Column phase: DB-VRX Column diameter: 0.25

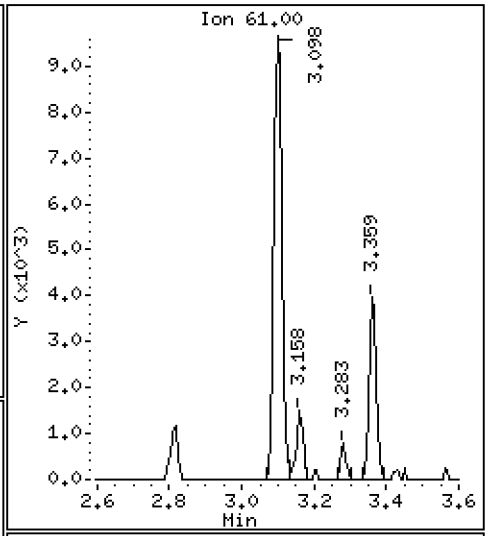
32 cis-1,2-Dichloroethene Concentration: 1.13768 ug/L

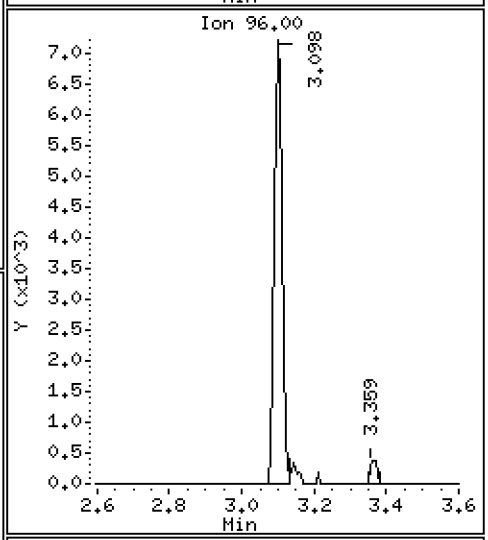


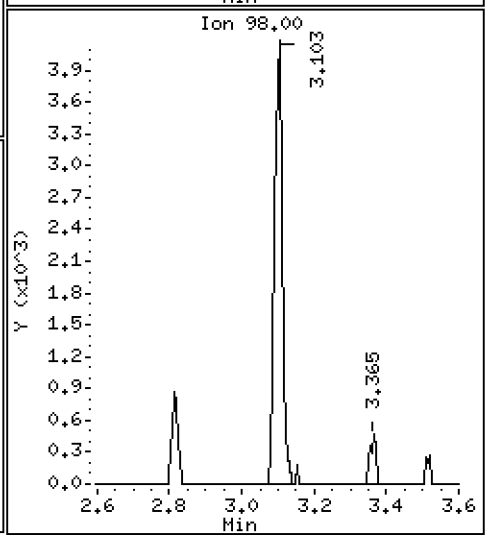












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 41

Date : 24-OCT-2016 23:46

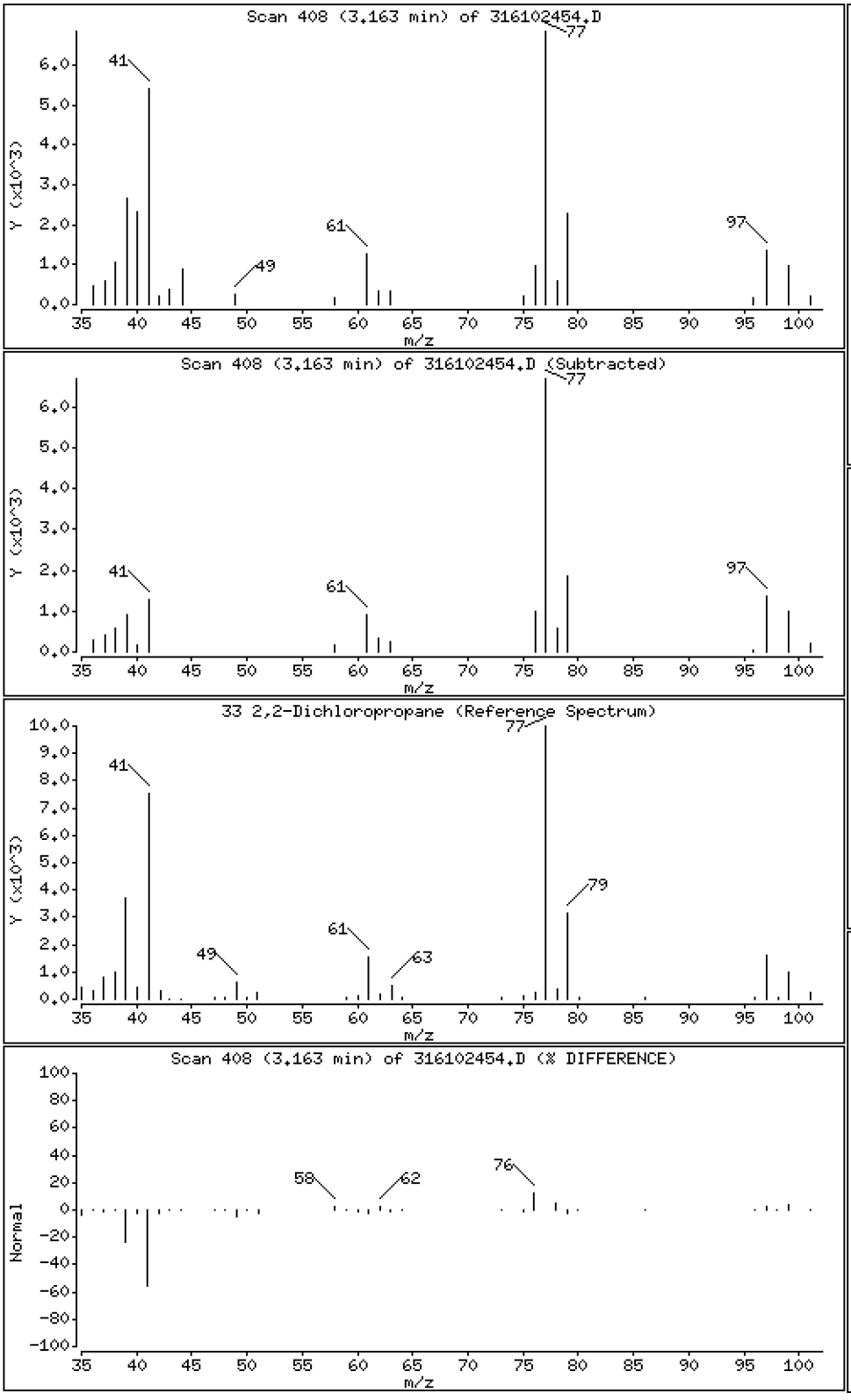
Client ID: Instrument: ms03.i

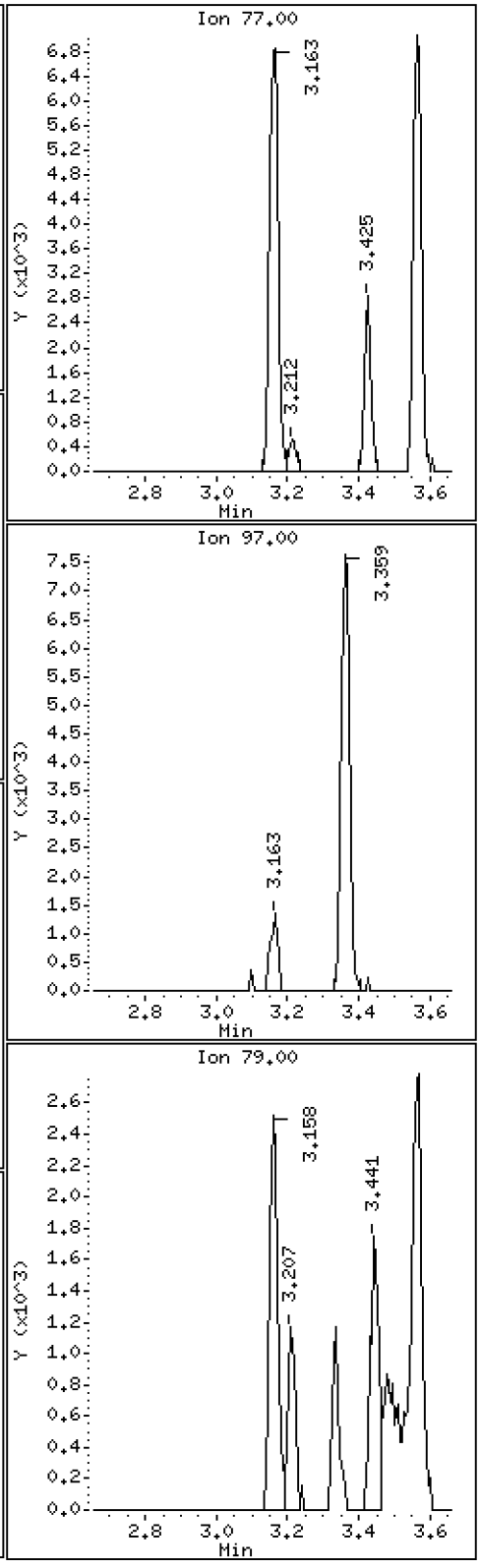
Sample Info: 1234;;1;1;1;;;

Purge Volume: 5.0 Operator: CJG

Column phase: DB-VRX Column diameter: 0.25

33 2,2-Dichloropropane Concentration: 1.10813 ug/L





Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 42

Date : 24-OCT-2016 23:46

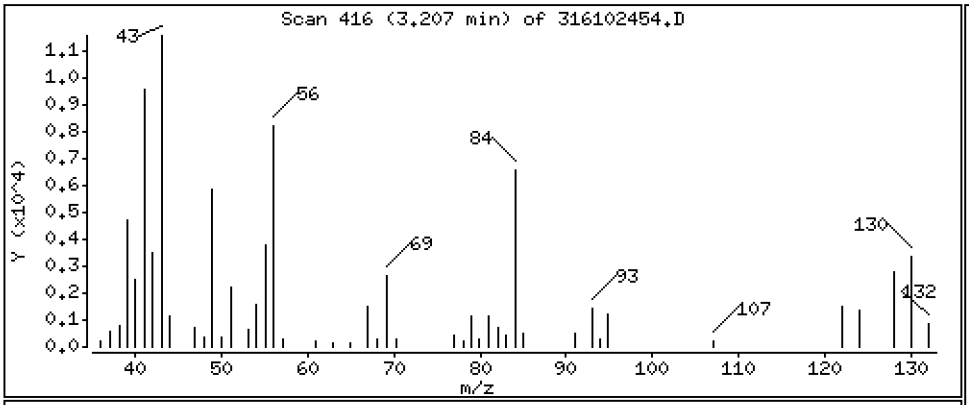
Client ID: Instrument: ms03.i

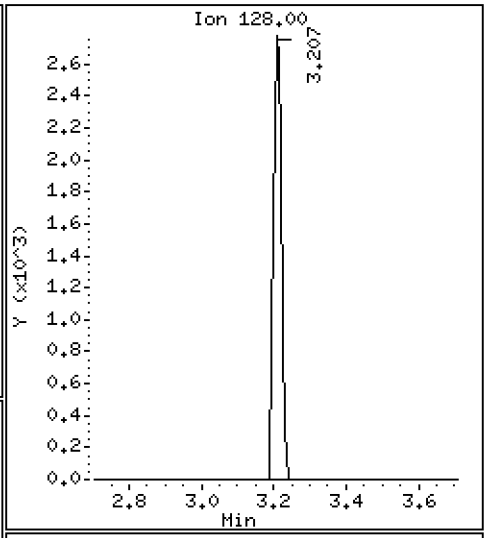
Sample Info: 1234;;1;1;1;;;

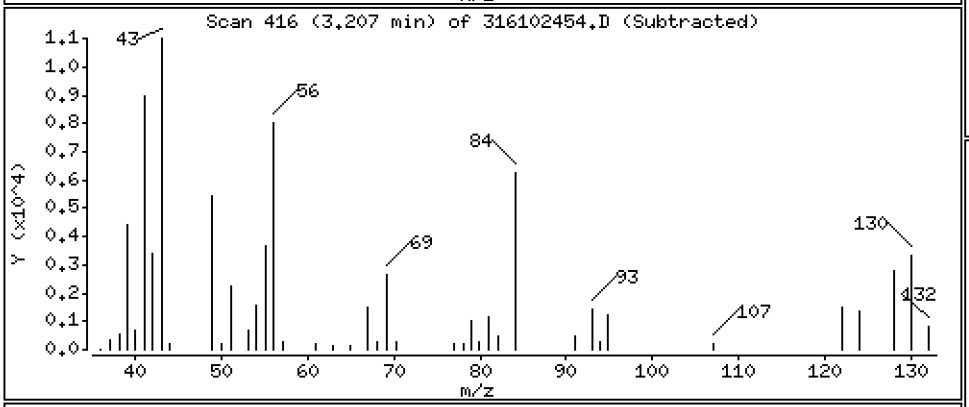
Purge Volume: 5.0 Operator: CJG

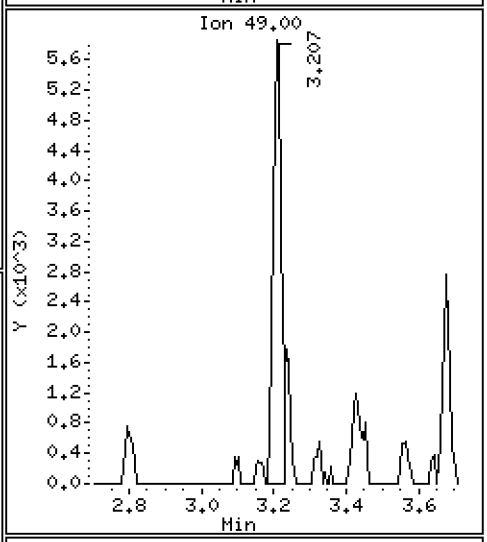
Column phase: DB-VRX Column diameter: 0.25

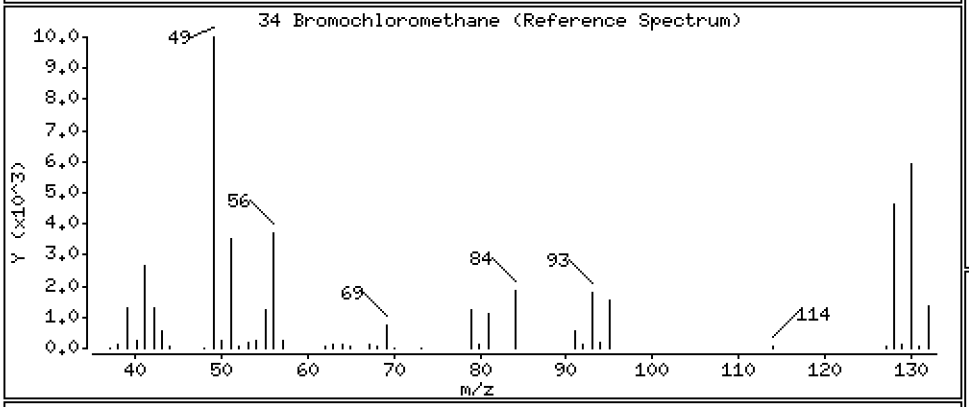
34 Bromochloromethane Concentration: 1.09318 ug/L

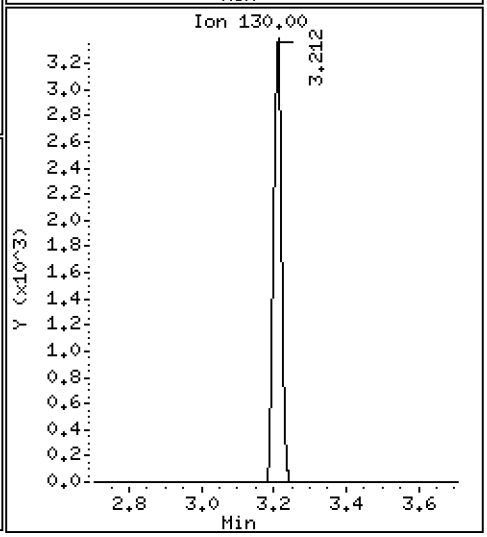


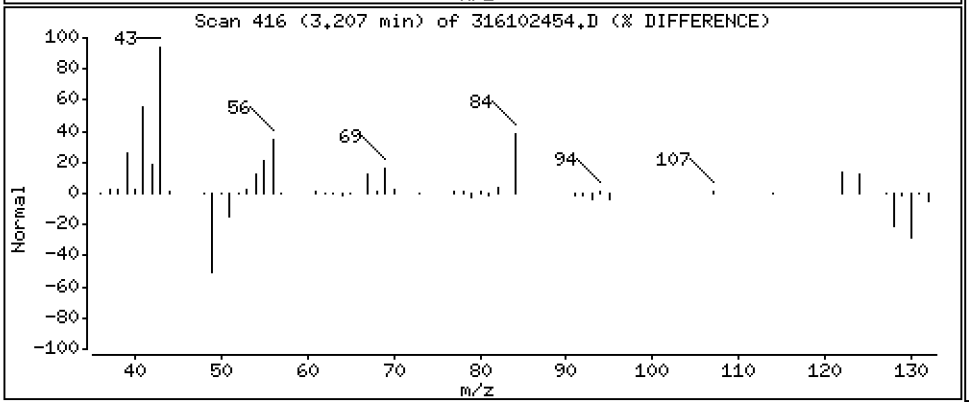












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 43

Date : 24-OCT-2016 23:46

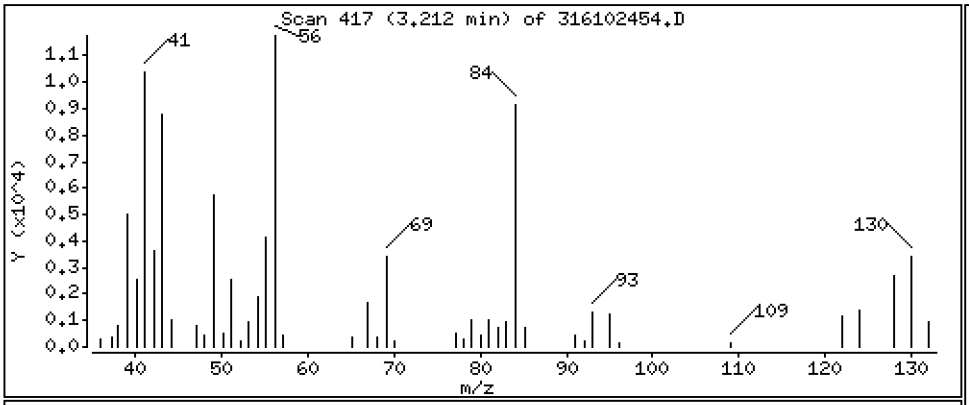
Client ID: Instrument: ms03.i

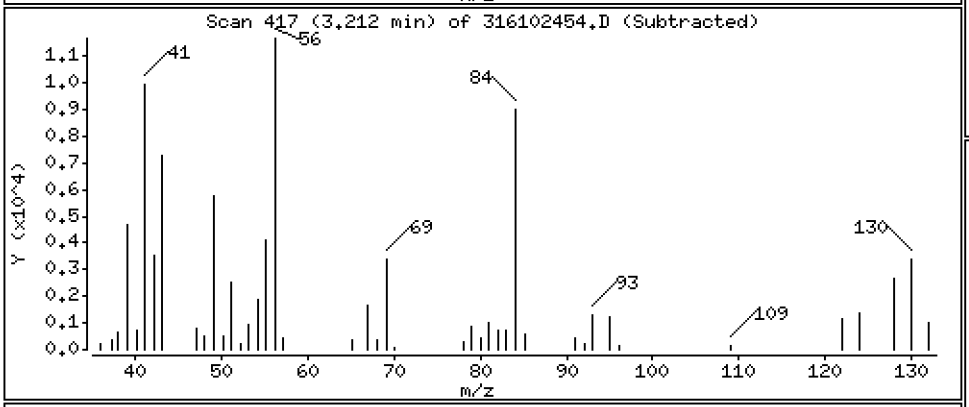
Sample Info: 1234;;1;1;1;;;

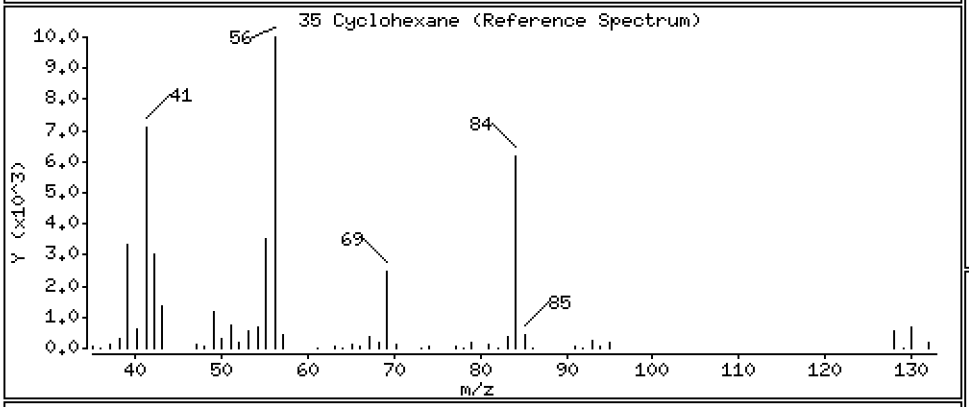
Purge Volume: 5.0 Operator: CJG

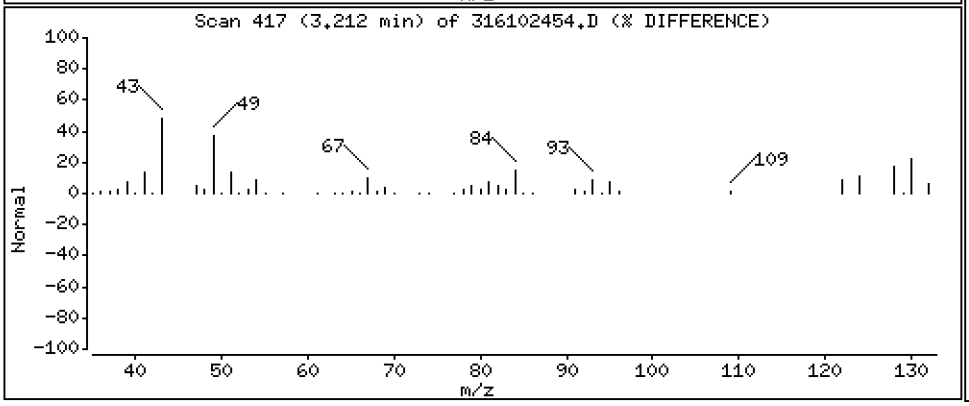
Column phase: DB-VRX Column diameter: 0.25

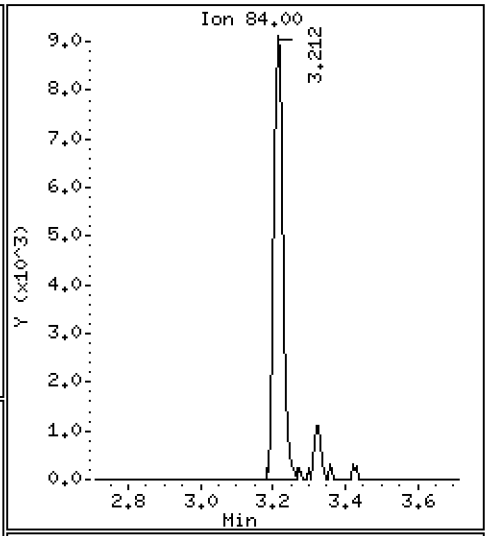
35 Cyclohexane Concentration: 1.29498 ug/L

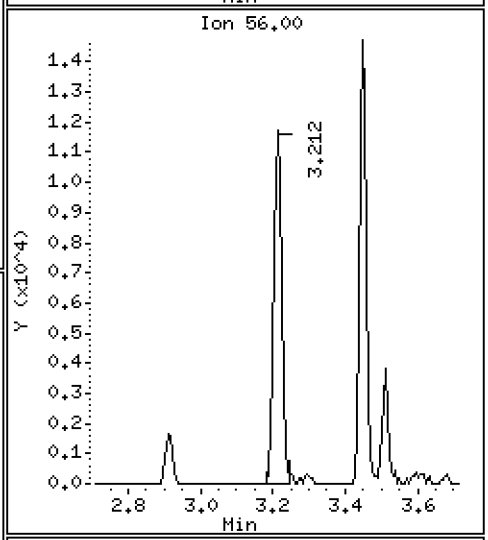


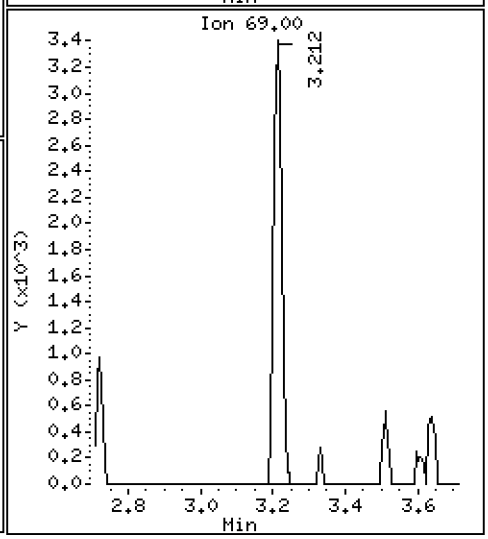












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 44

Date : 24-OCT-2016 23:46

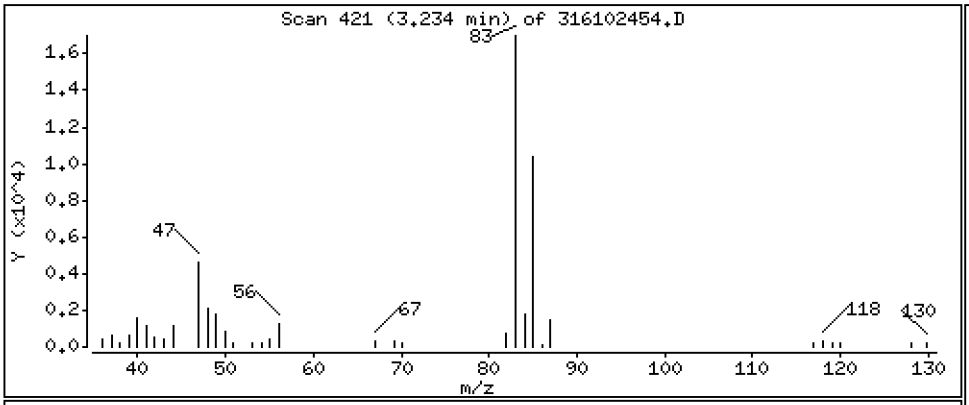
Client ID: Instrument: ms03.i

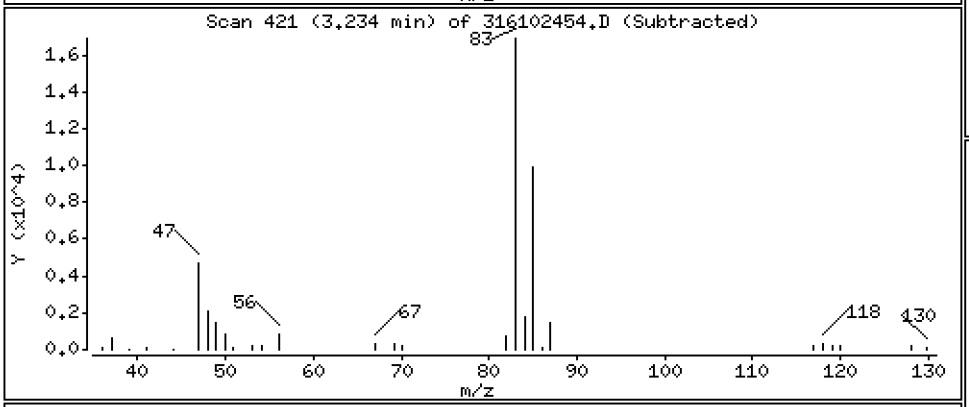
Sample Info: 1234;;1;1;1;;;

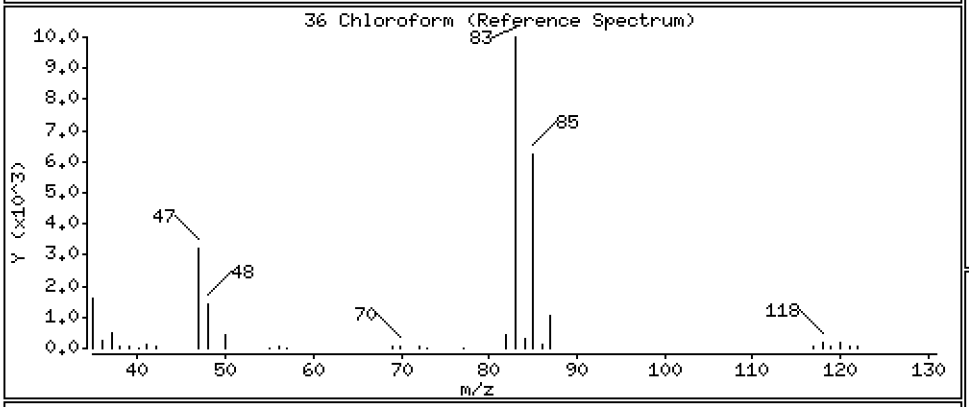
Purge Volume: 5.0 Operator: CJG

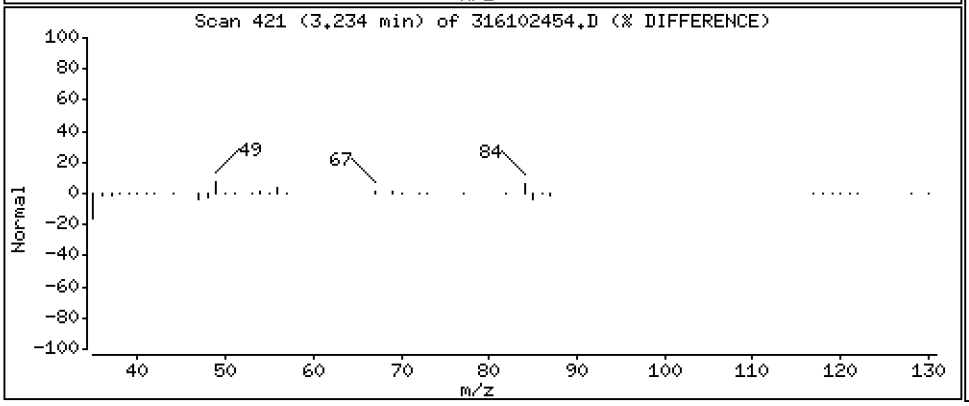
Column phase: DB-VRX Column diameter: 0.25

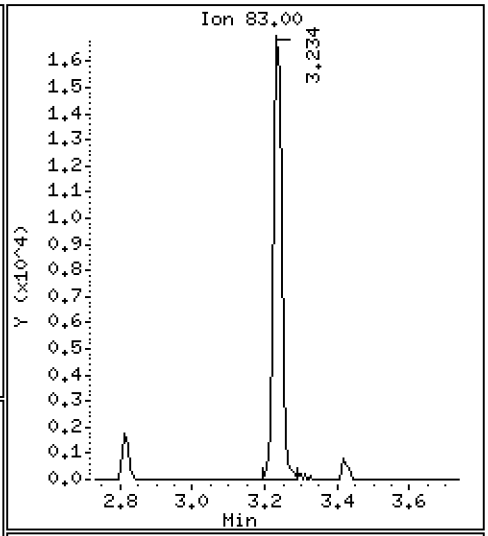
36 Chloroform Concentration: 1.63130 ug/L

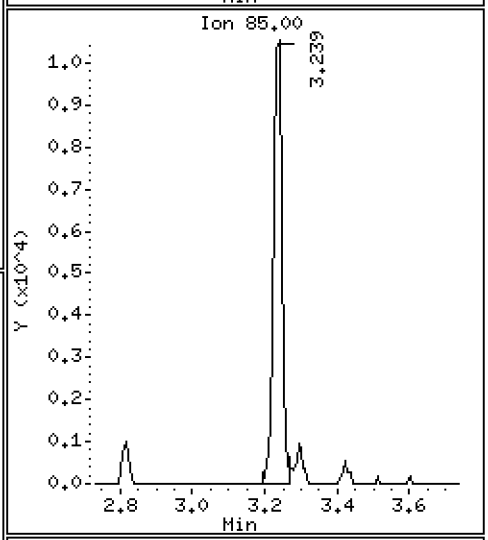


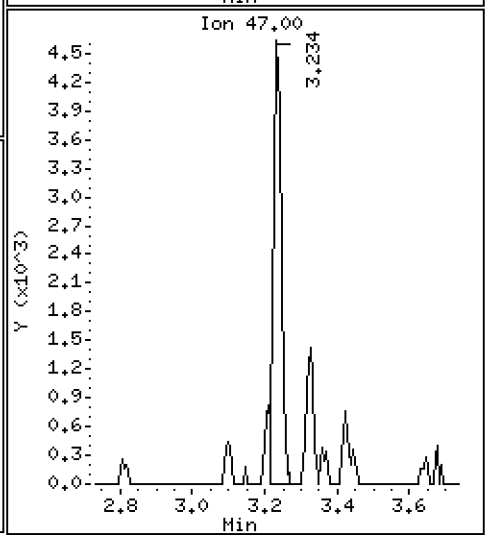












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 45

Date : 24-OCT-2016 23:46

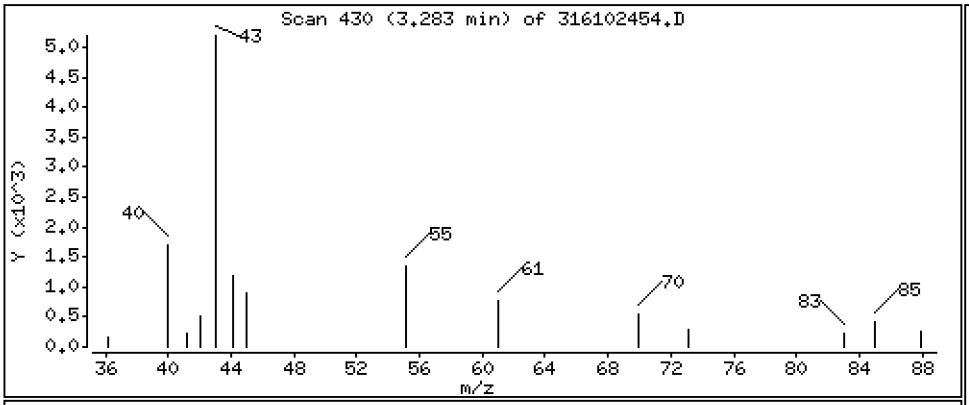
Client ID: Instrument: ms03.i

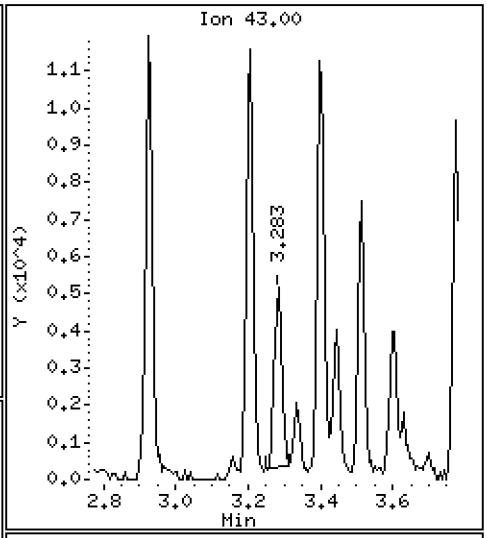
Sample Info: 1234;;1;1;1;;;

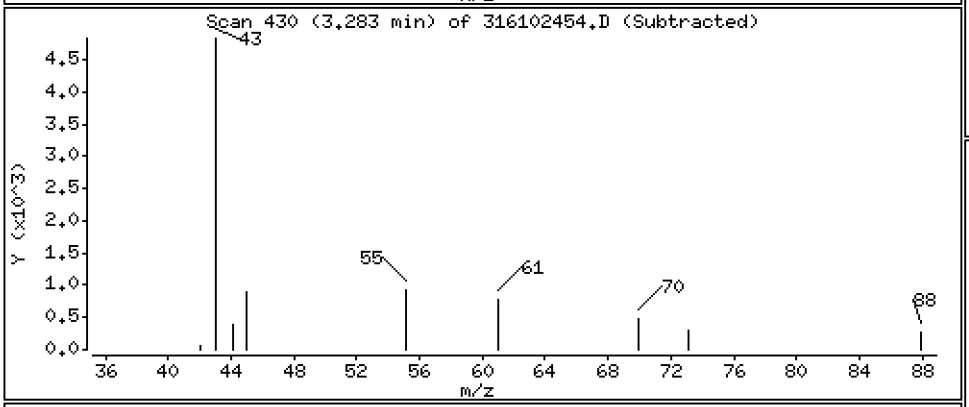
Purge Volume: 5.0 Operator: CJG

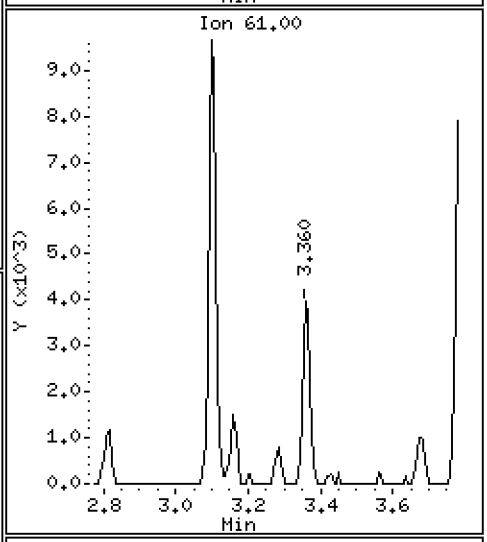
Column phase: DB-VRX Column diameter: 0.25

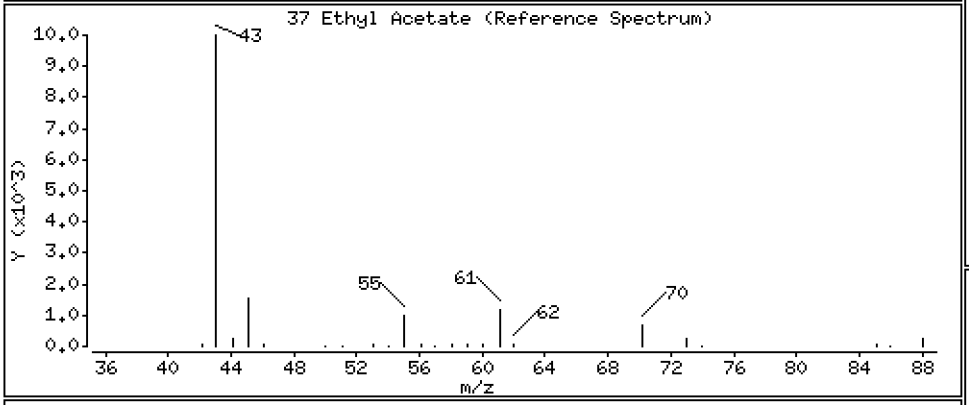
37 Ethyl Acetate Concentration: 0.893259 ug/L

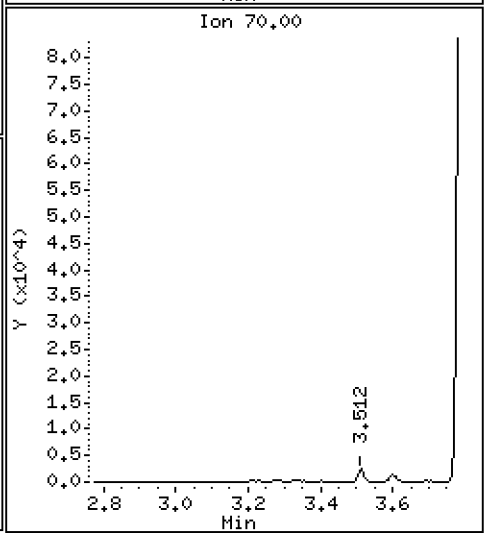


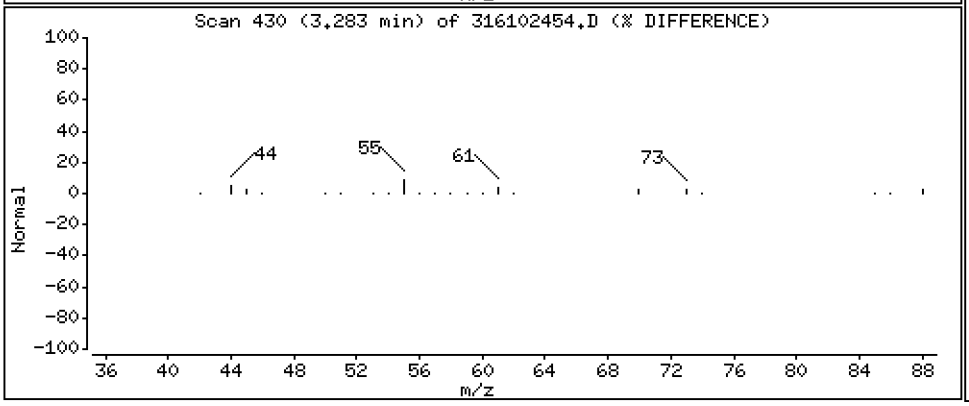












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 46

Date : 24-OCT-2016 23:46

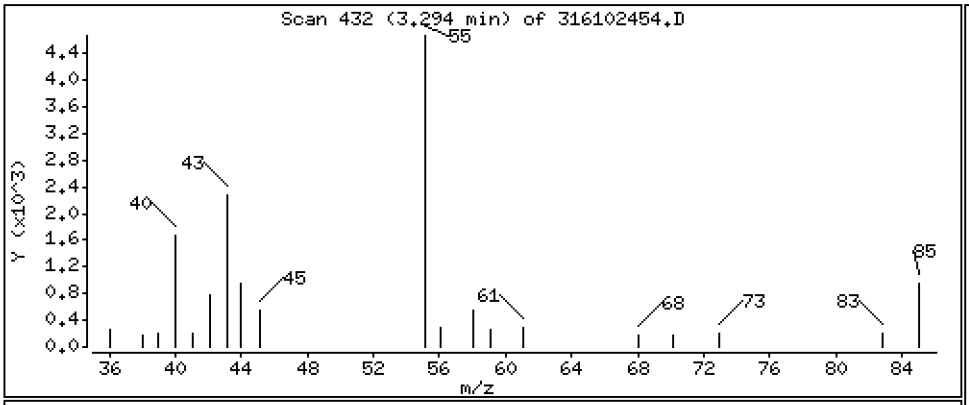
Client ID: Instrument: ms03.i

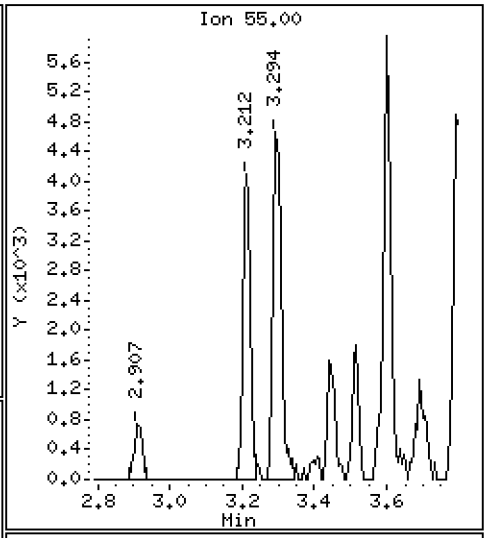
Sample Info: 1234;;1;1;1;;;

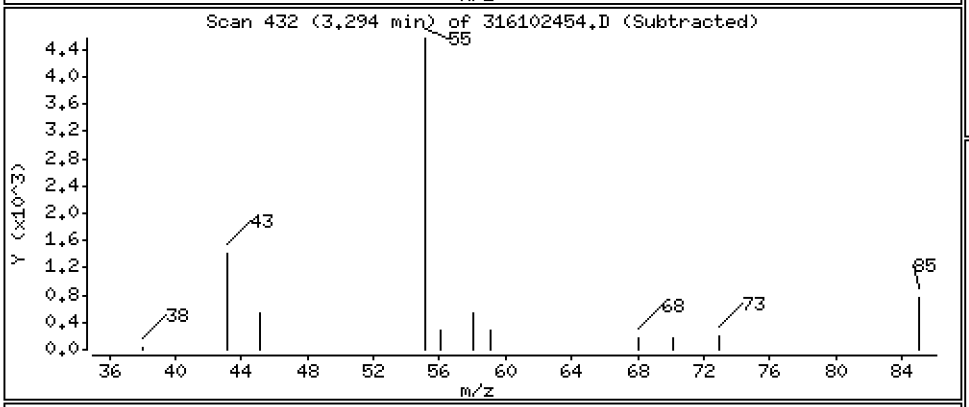
Purge Volume: 5.0 Operator: CJG

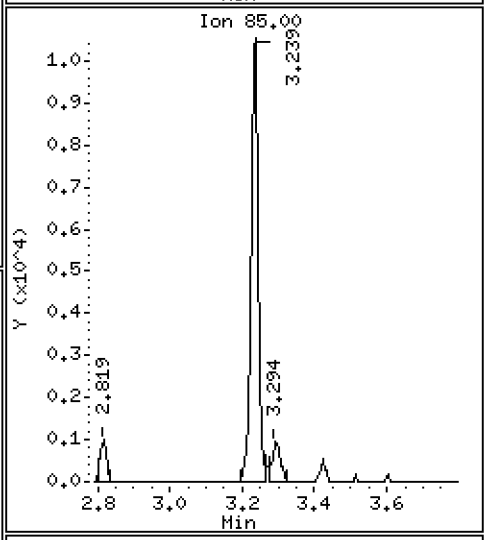
Column phase: DB-VRX Column diameter: 0.25

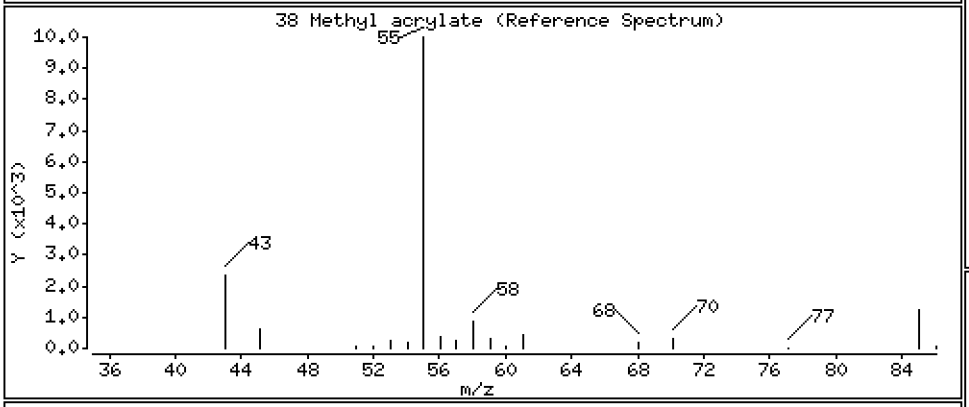
38 Methyl acrylate Concentration: 0.984186 ug/L

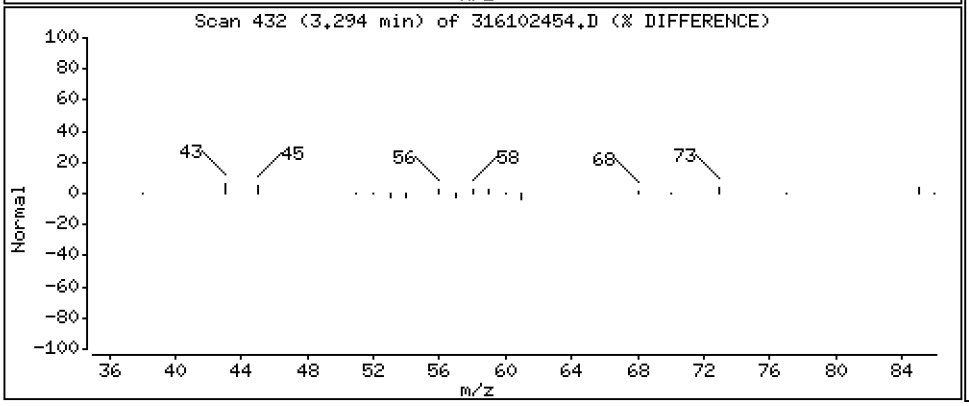


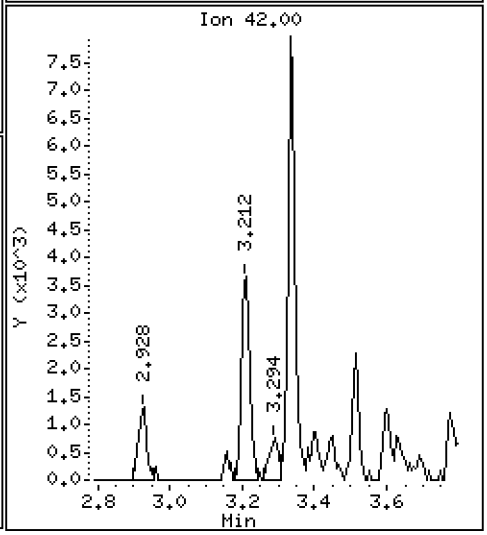












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 47

Date : 24-OCT-2016 23:46

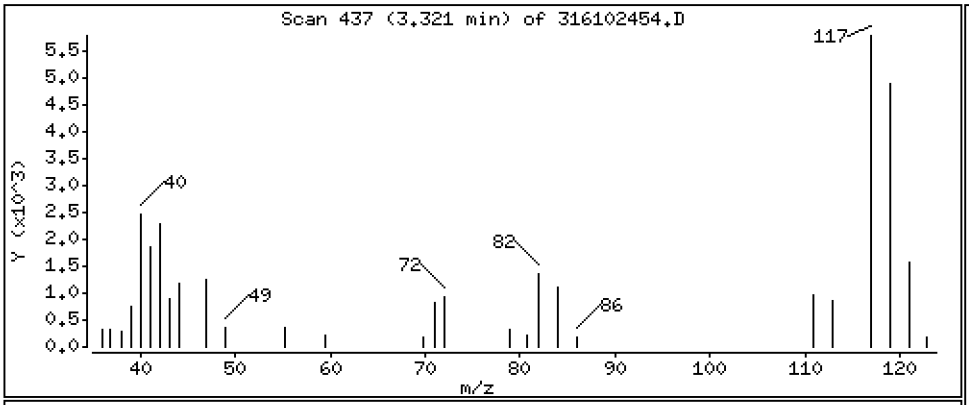
Client ID: Instrument: ms03.i

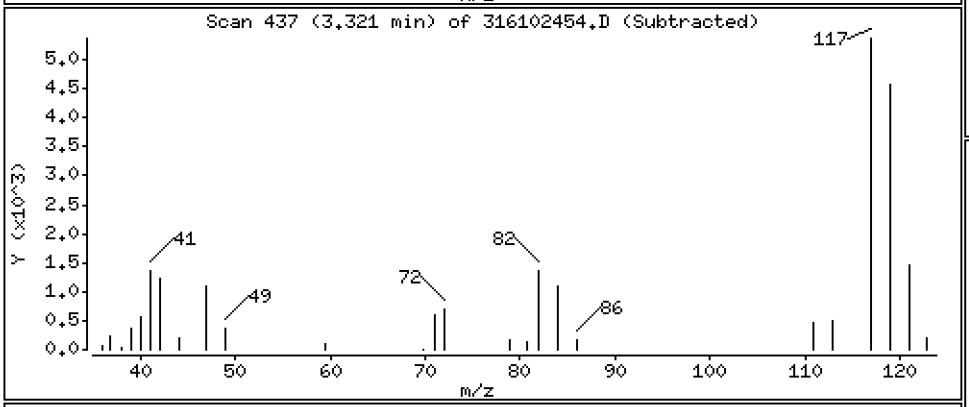
Sample Info: 1234;;1;1;1;;;

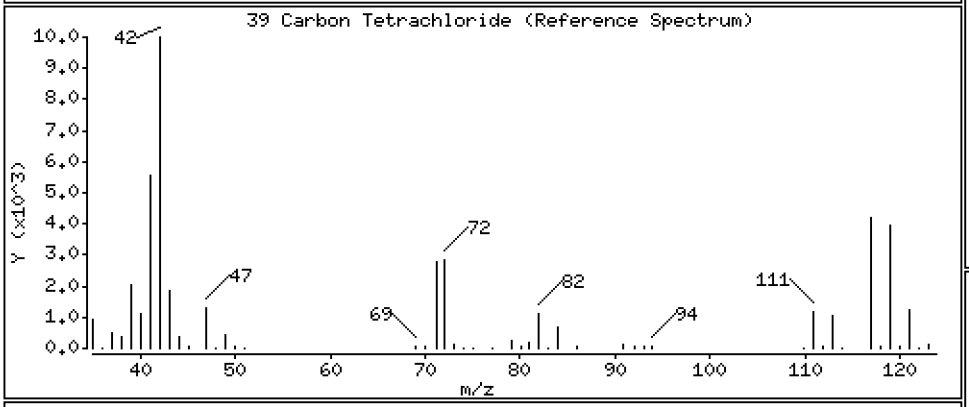
Purge Volume: 5.0 Operator: CJG

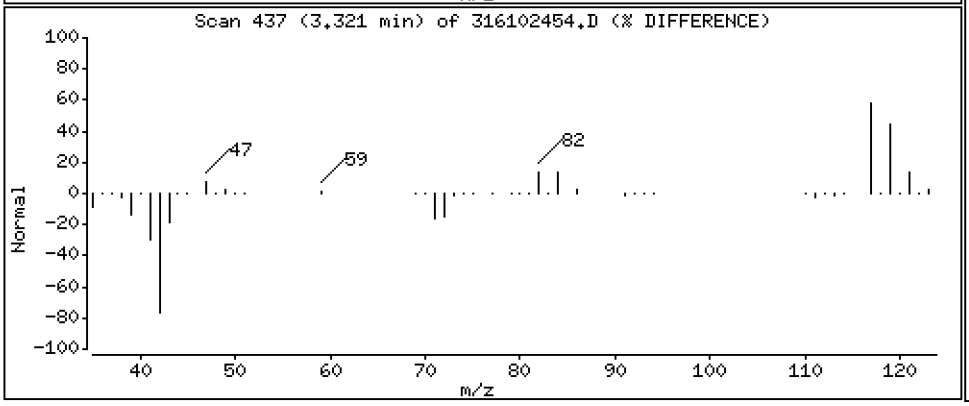
Column phase: DB-VRX Column diameter: 0.25

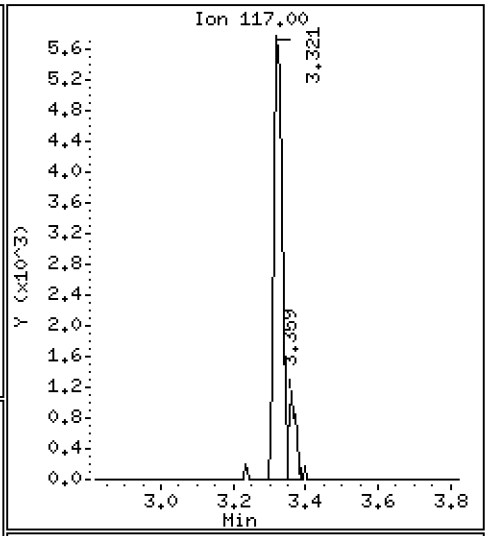
39 Carbon Tetrachloride Concentration: 1.04749 ug/L

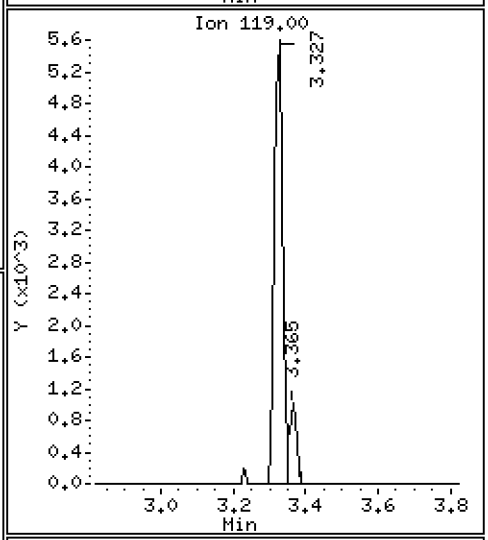


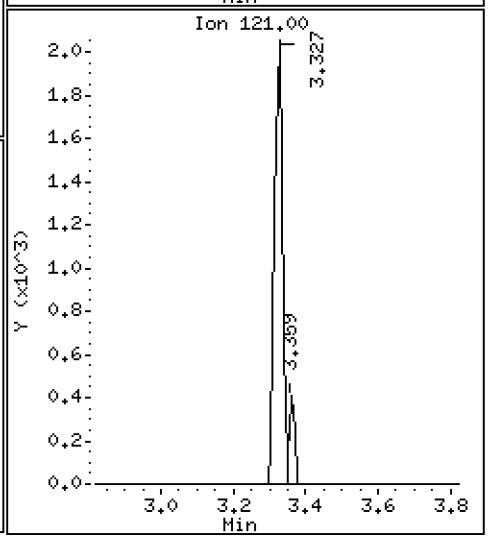












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 48

Date : 24-OCT-2016 23:46

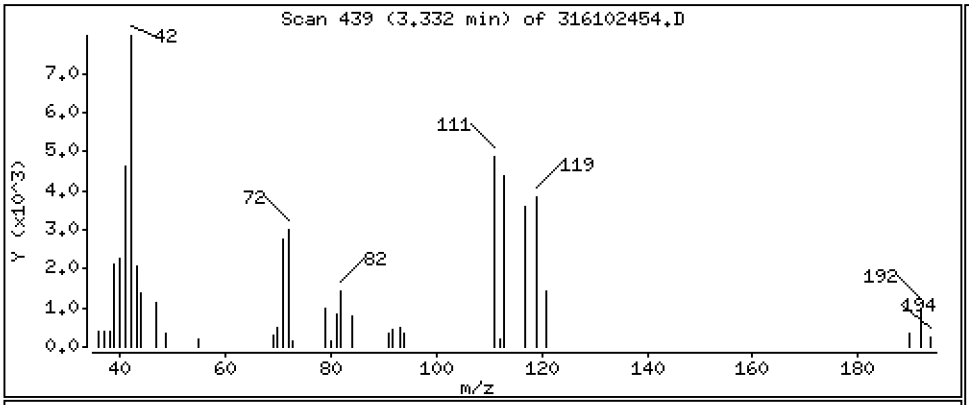
Client ID: Instrument: ms03.i

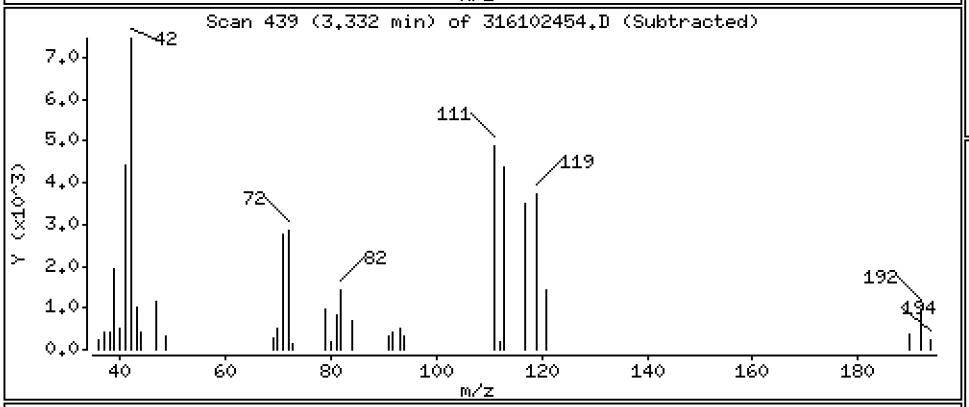
Sample Info: 1234;;1;1;1;;;

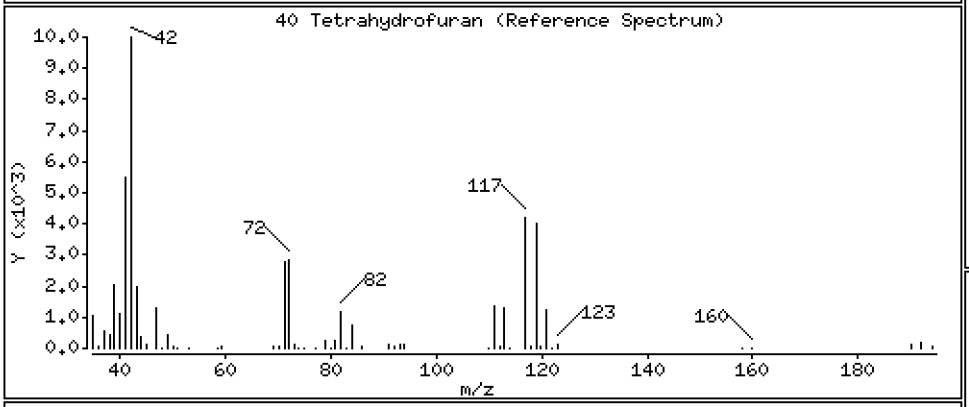
Purge Volume: 5.0 Operator: CJG

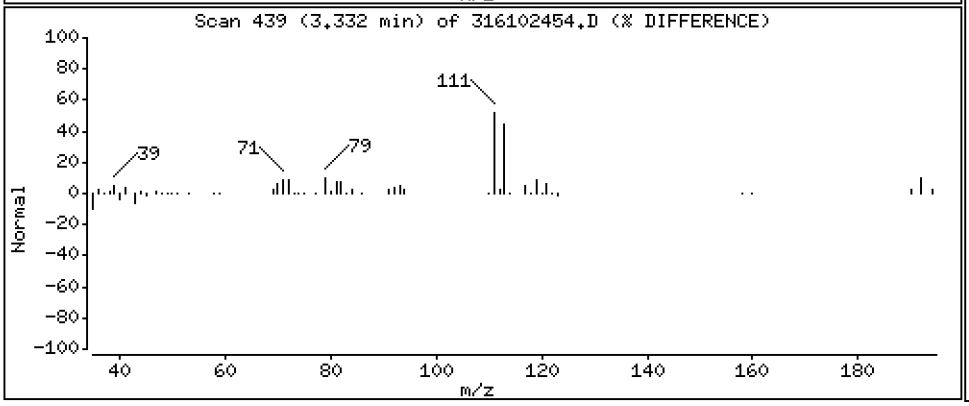
Column phase: DB-VRX Column diameter: 0.25

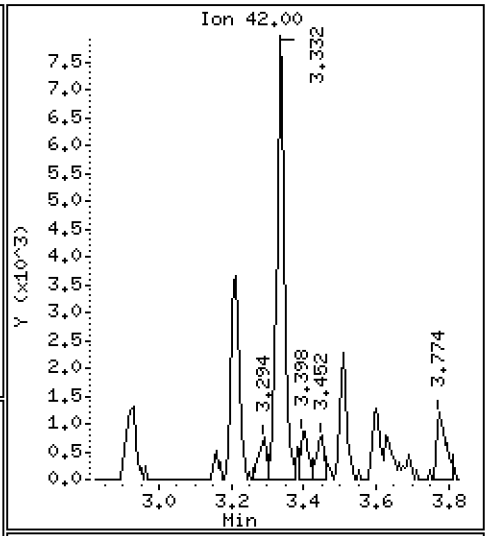
40 Tetrahydrofuran Concentration: 5.15183 ug/L

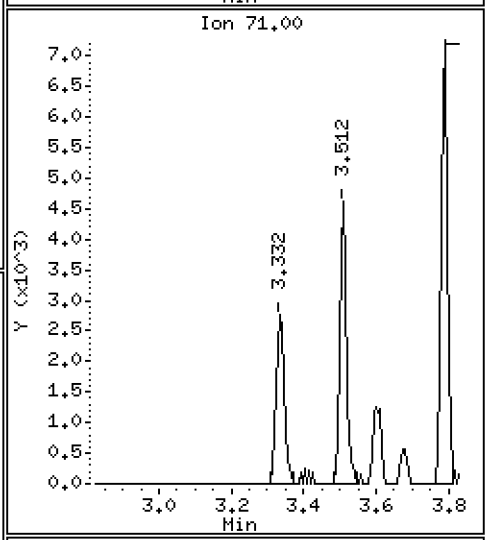


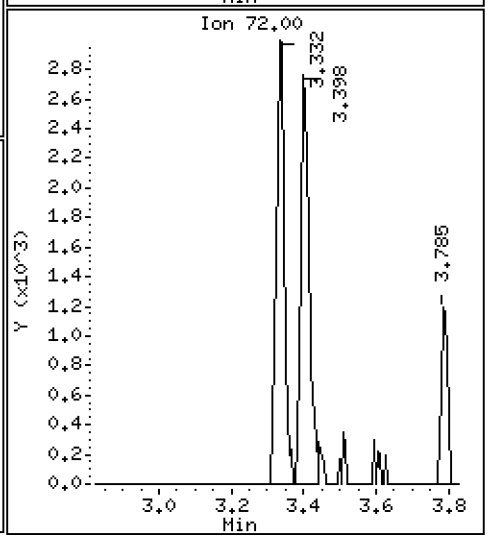












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 49

Date : 24-OCT-2016 23:46

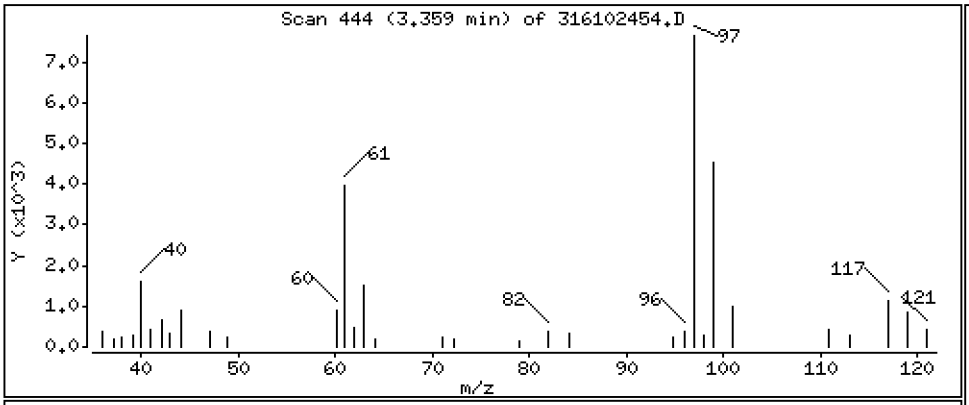
Client ID: Instrument: ms03.i

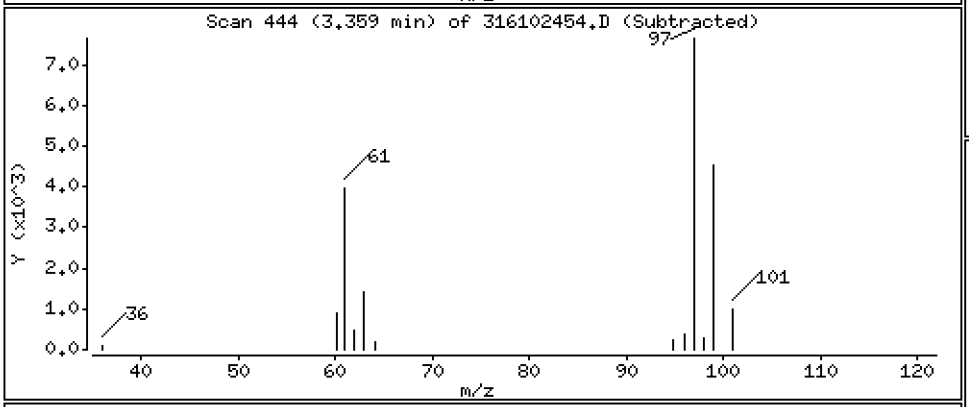
Sample Info: 1234;;1;1;1;;;

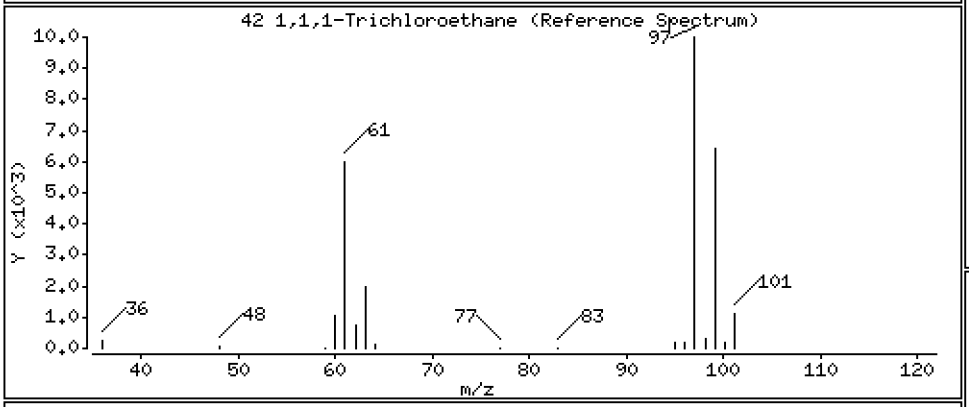
Purge Volume: 5.0 Operator: CJG

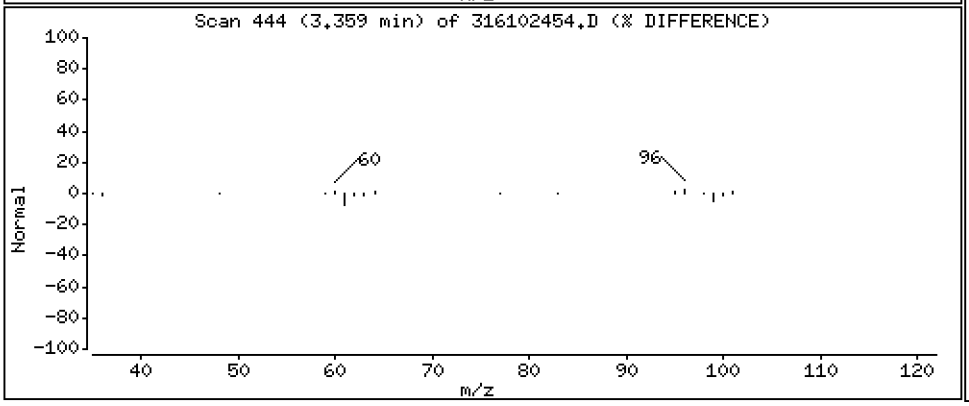
Column phase: DB-VRX Column diameter: 0.25

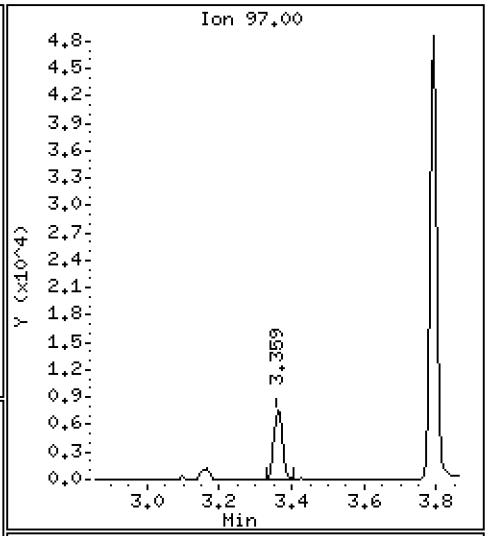
42 1,1,1-Trichloroethane Concentration: 1.04332 ug/L

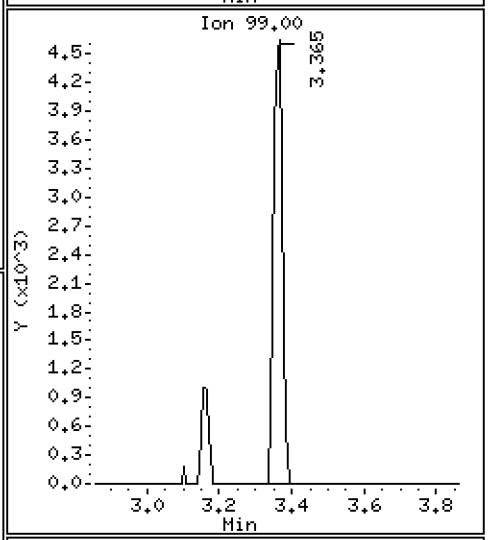


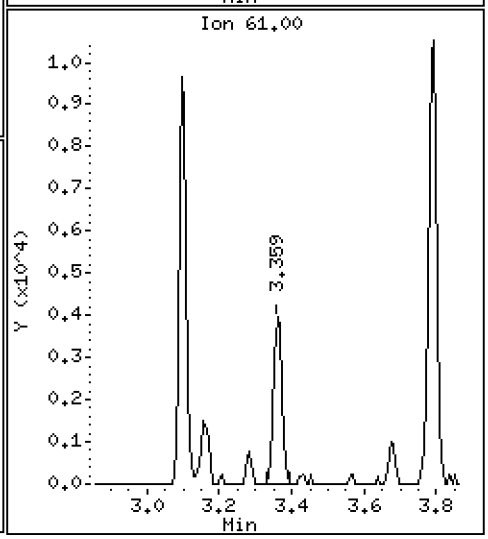












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 50

Date : 24-OCT-2016 23:46

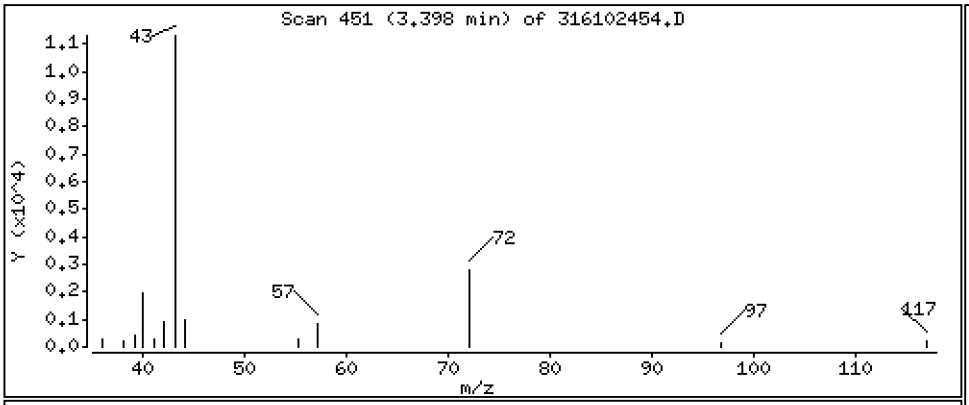
Client ID: Instrument: ms03.i

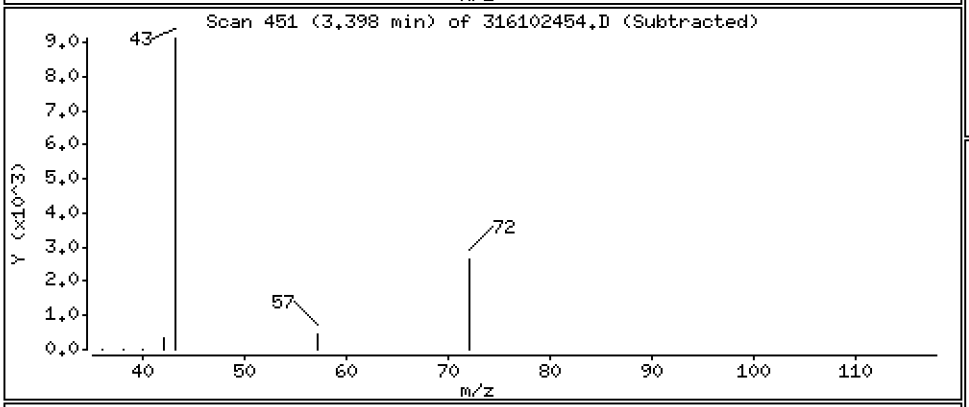
Sample Info: 1234;;1;1;1;;;

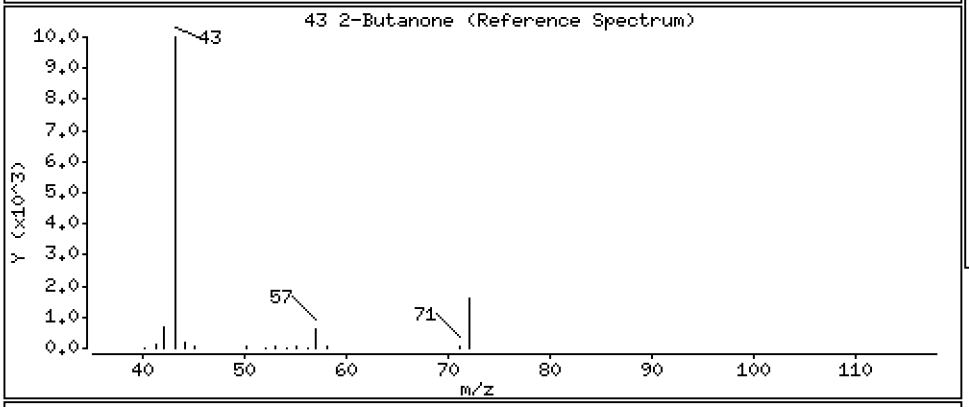
Purge Volume: 5.0 Operator: CJG

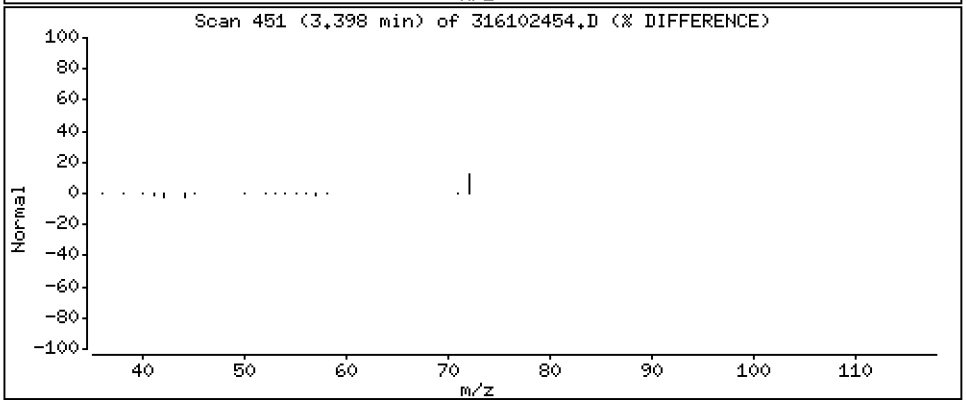
Column phase: DB-VRX Column diameter: 0.25

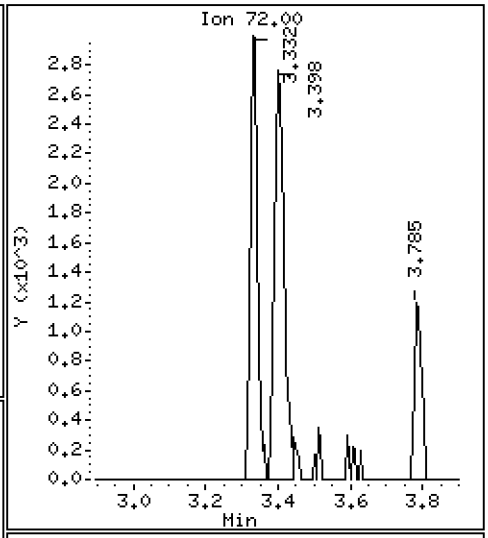
43 2-Butanone Concentration: 5.23071 ug/L

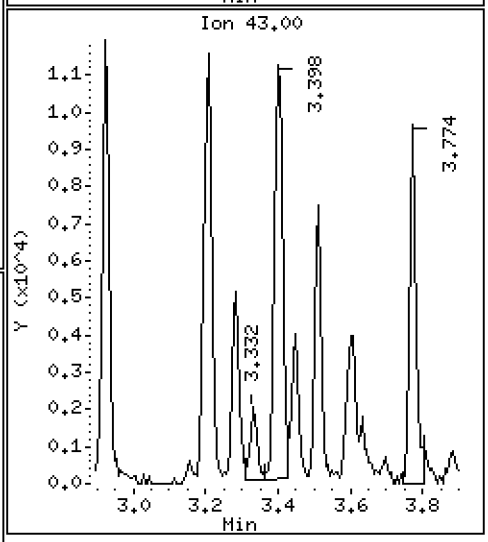












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 51

Date : 24-OCT-2016 23:46

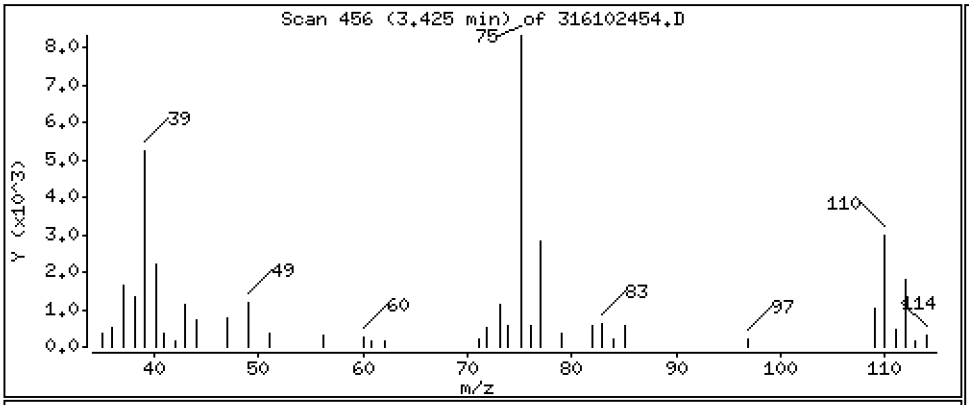
Client ID: Instrument: ms03.i

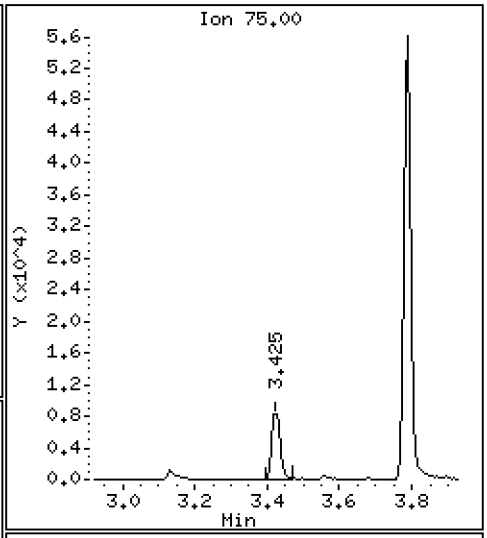
Sample Info: 1234;;1;1;1;;;

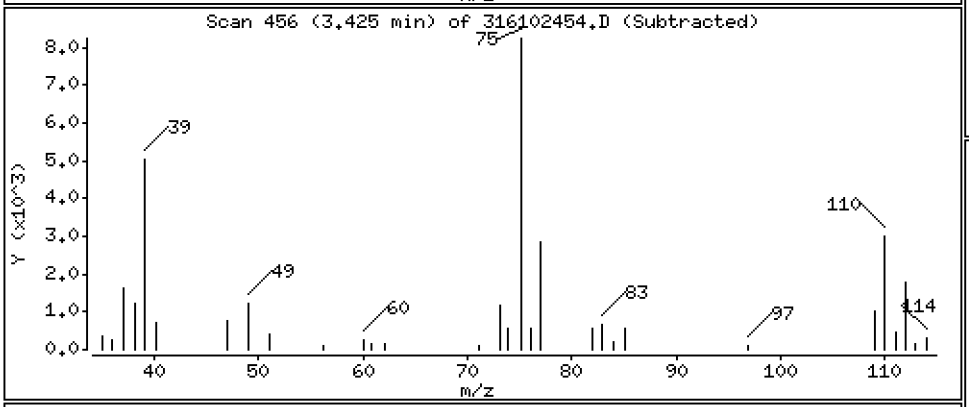
Purge Volume: 5.0 Operator: CJG

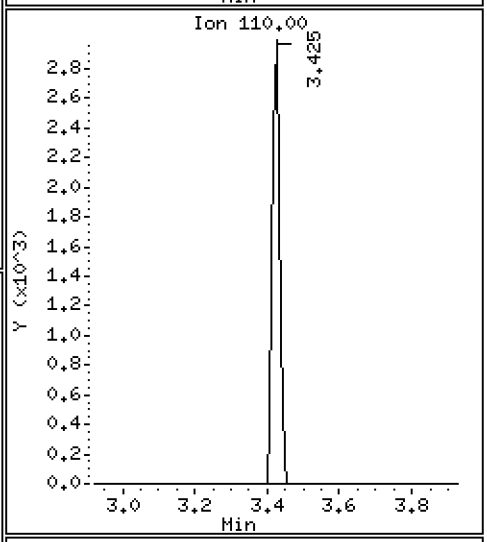
Column phase: DB-VRX Column diameter: 0.25

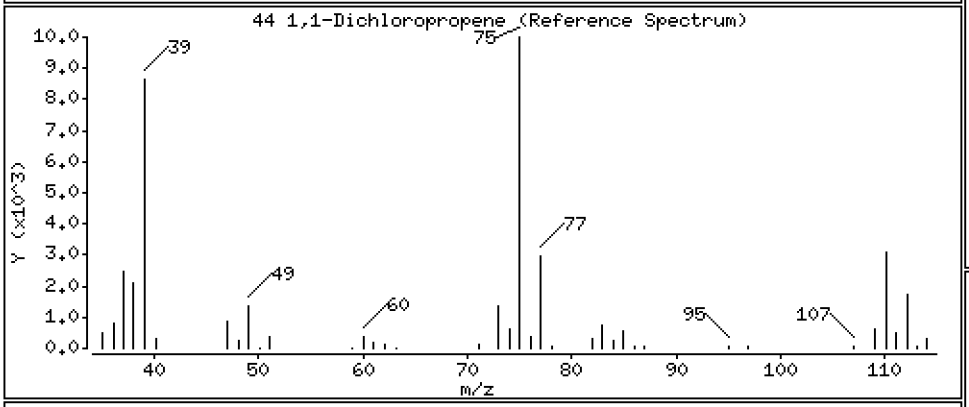
44 1,1-Dichloropropene Concentration: 1.13880 ug/L

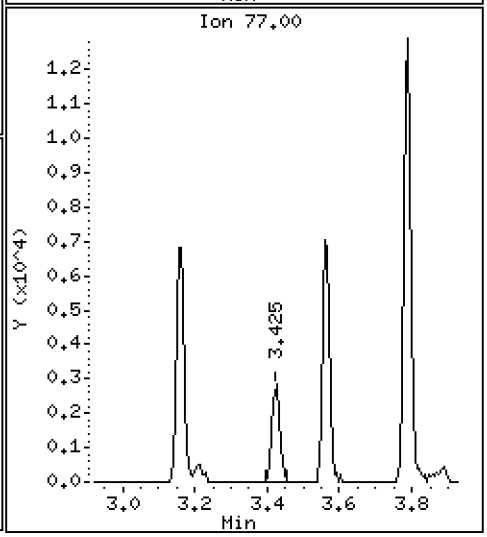


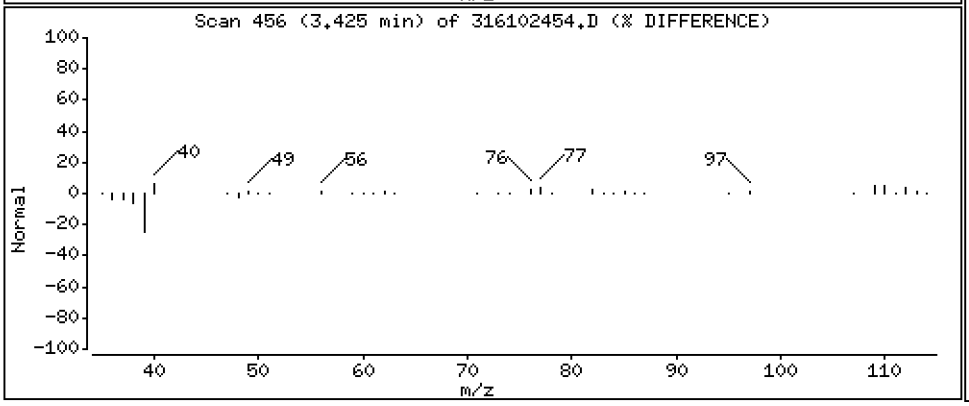












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 52

Date : 24-OCT-2016 23:46

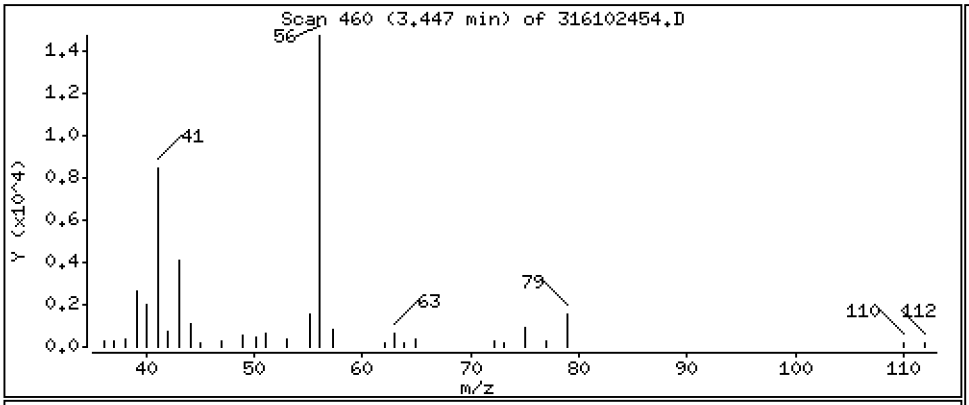
Client ID: Instrument: ms03.i

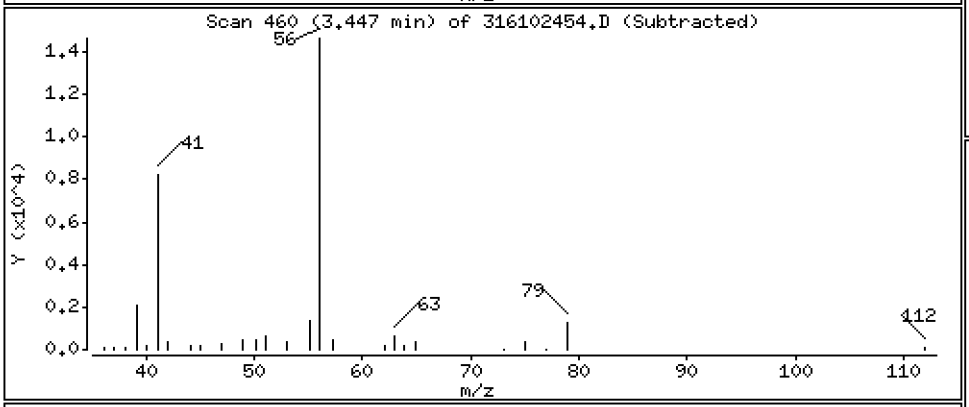
Sample Info: 1234;;1;1;1;;;

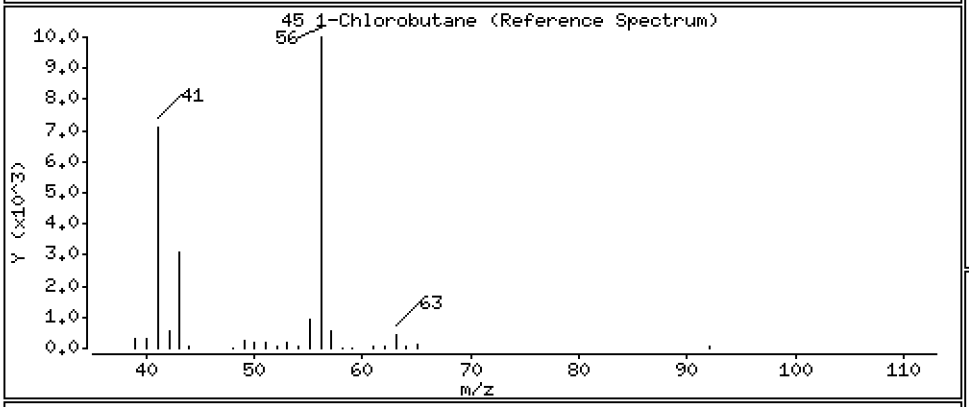
Purge Volume: 5.0 Operator: CJG

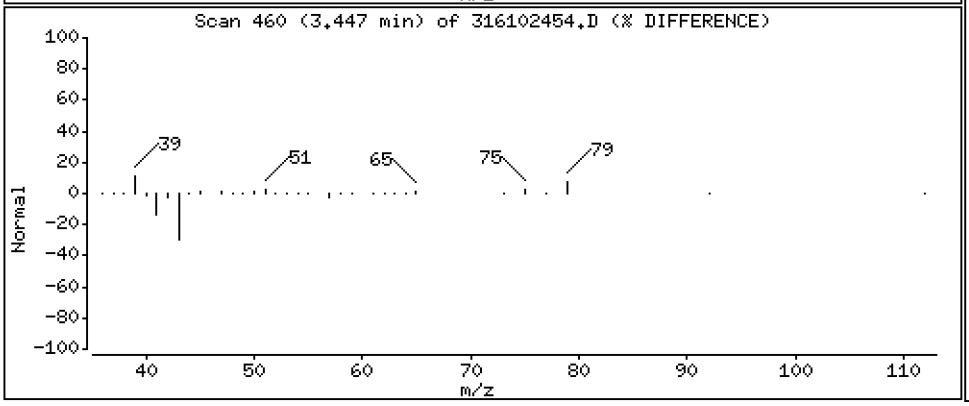
Column phase: DB-VRX Column diameter: 0.25

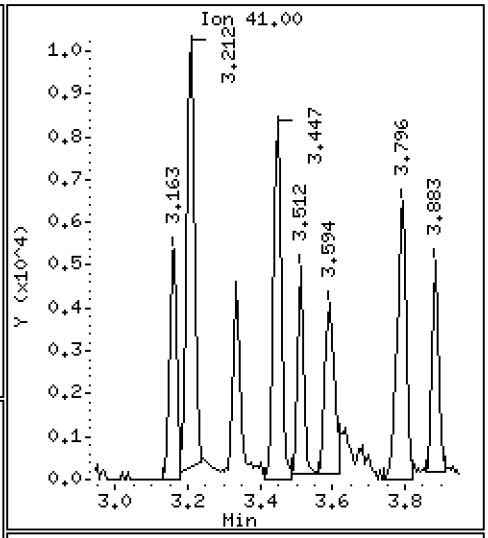
45 1-Chlorobutane Concentration: 1.26116 ug/L

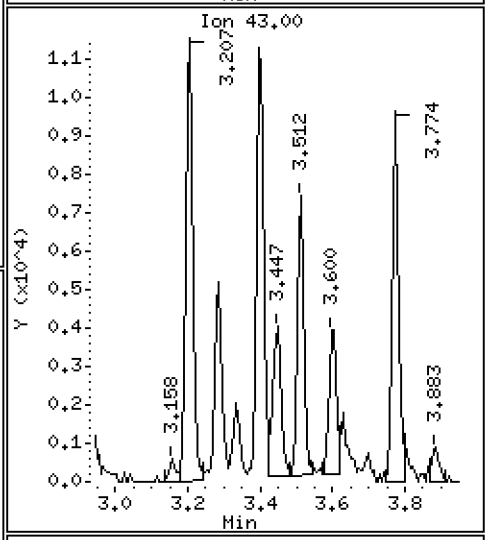


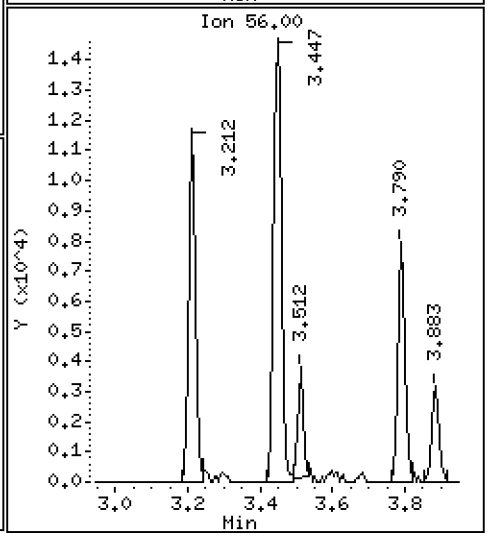












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 53

Date : 24-OCT-2016 23:46

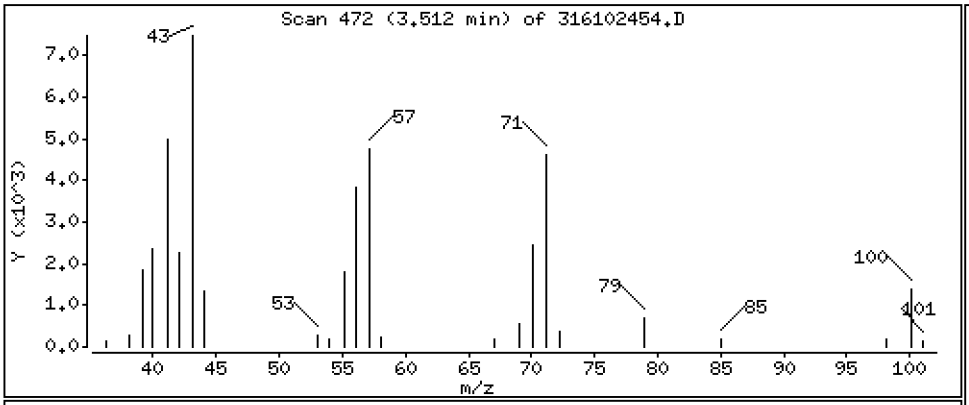
Client ID: Instrument: ms03.i

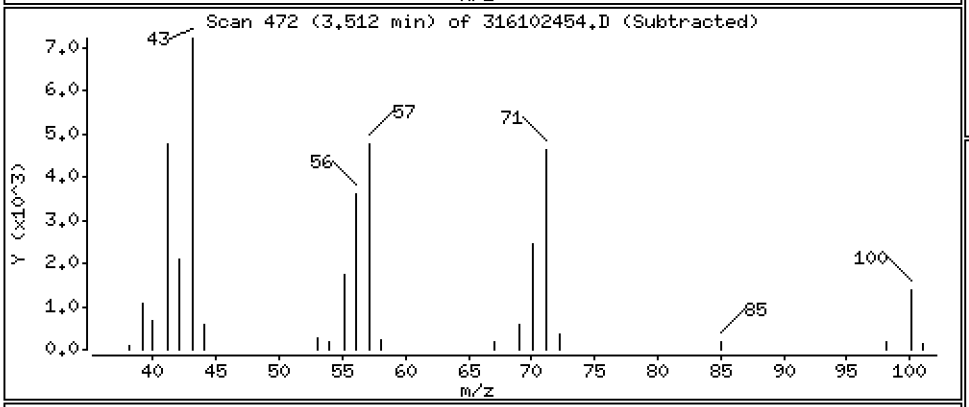
Sample Info: 1234;;1;1;1;;;

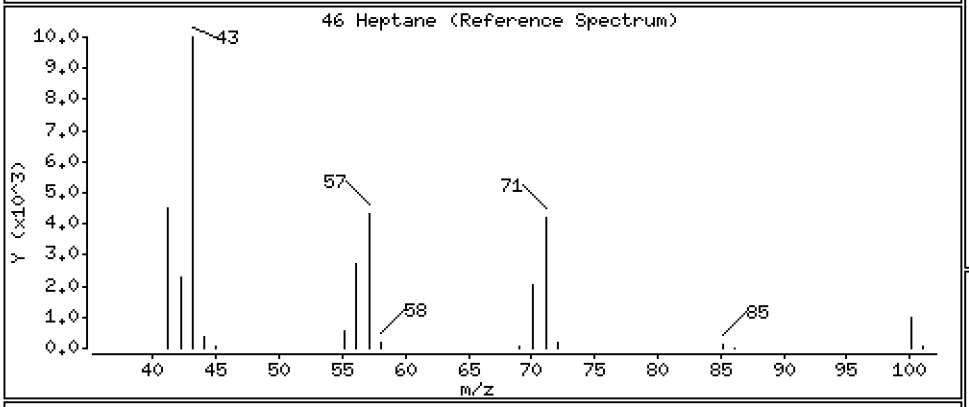
Purge Volume: 5.0 Operator: CJG

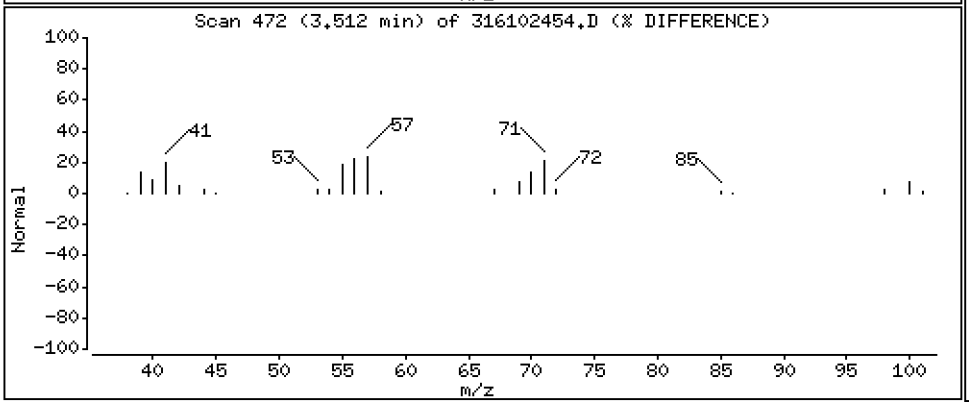
Column phase: DB-VRX Column diameter: 0.25

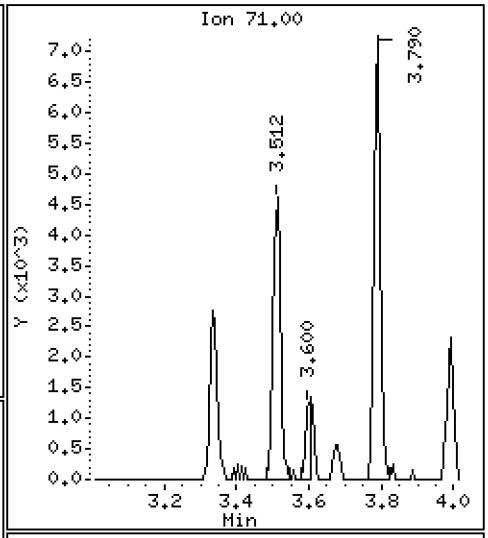
46 Heptane Concentration: 1.13200 ug/L

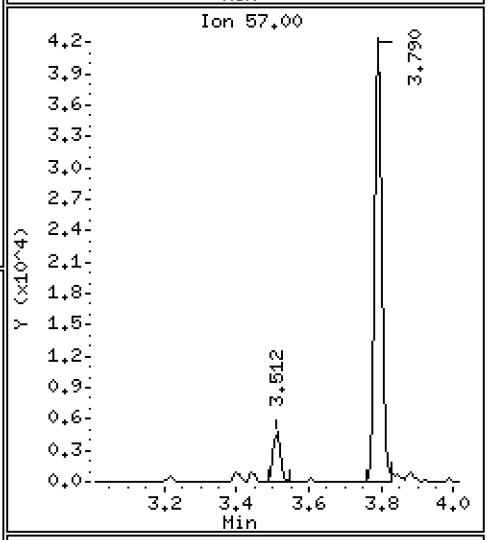


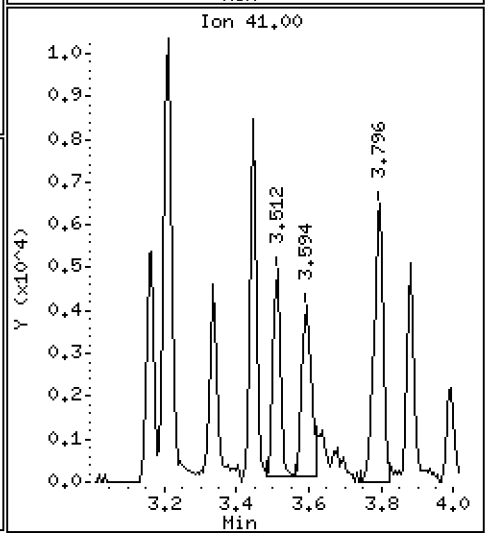












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 54

Date : 24-OCT-2016 23:46

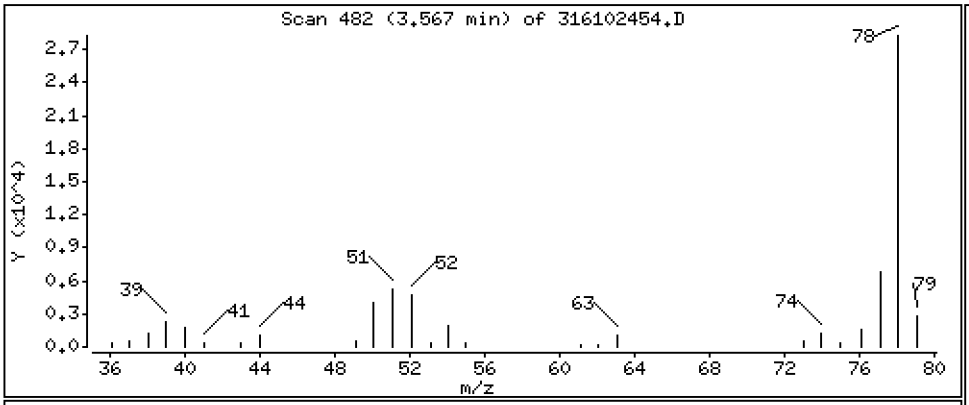
Client ID: Instrument: ms03.i

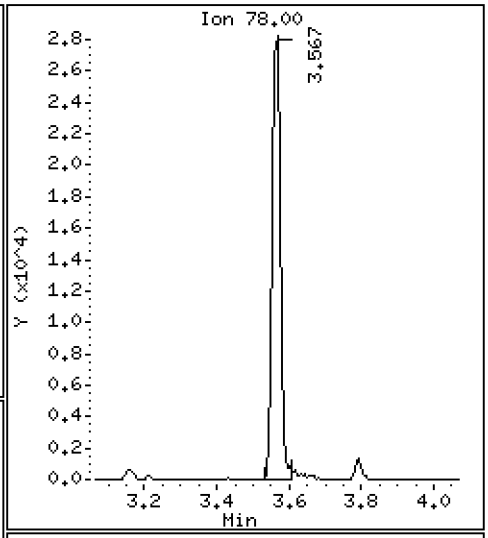
Sample Info: 1234;;1;1;1;;;

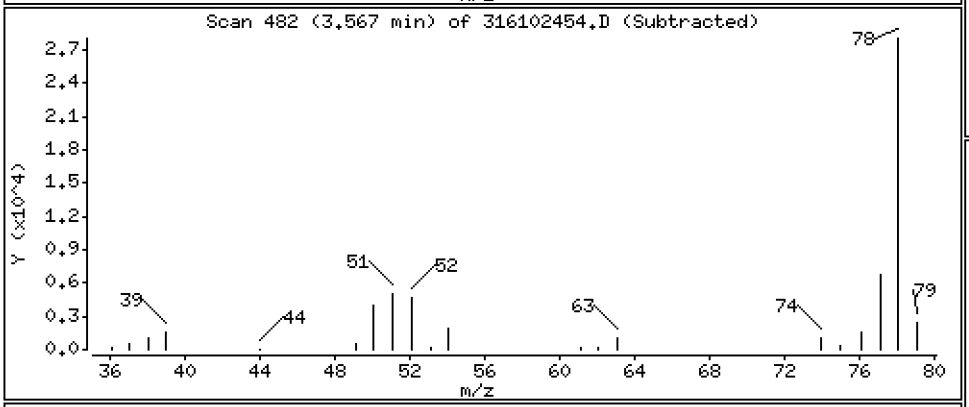
Purge Volume: 5.0 Operator: CJG

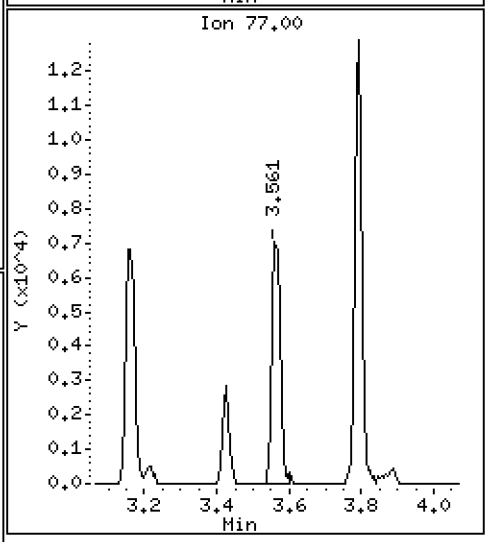
Column phase: DB-VRX Column diameter: 0.25

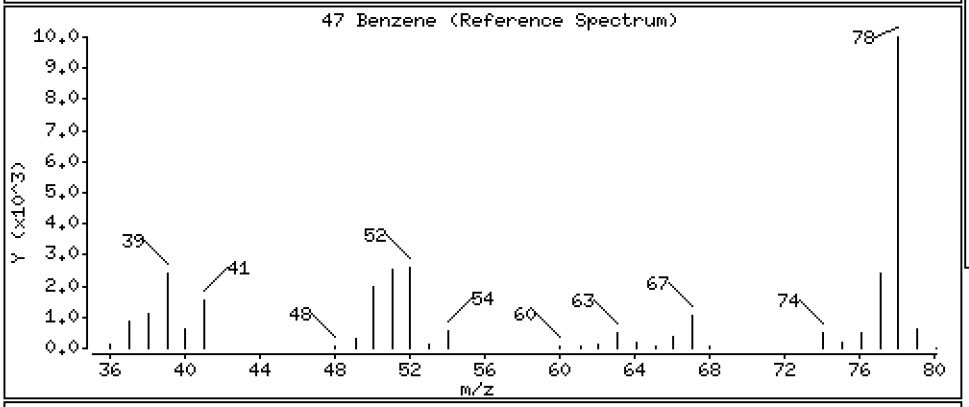
47 Benzene Concentration: 1.13684 ug/L

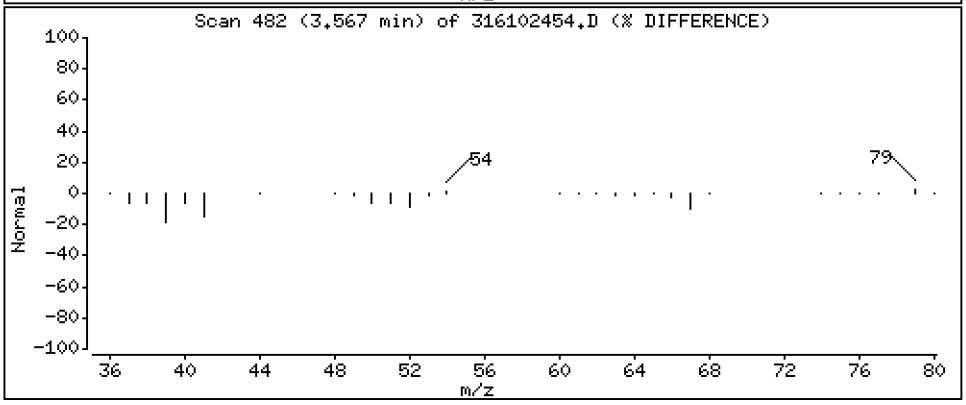












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 55

Date : 24-OCT-2016 23:46

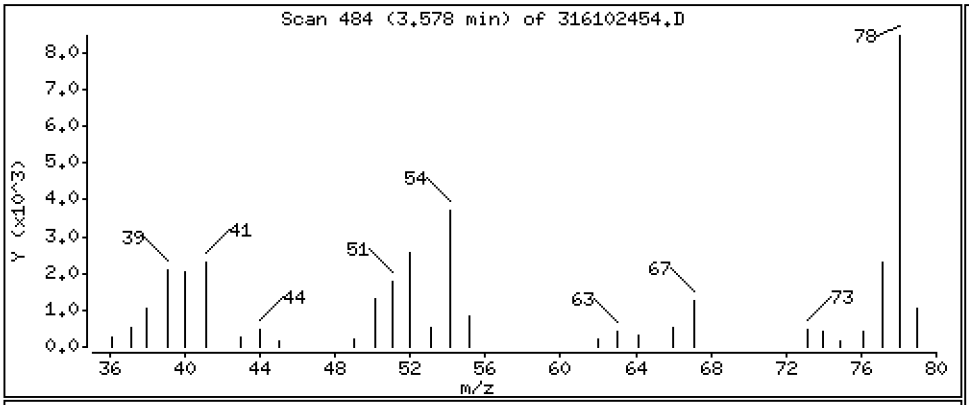
Client ID: Instrument: ms03.i

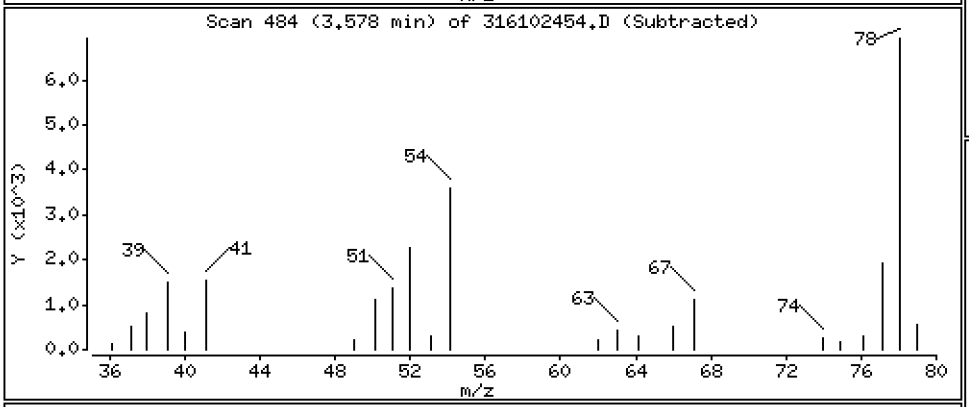
Sample Info: 1234;;1;1;1;;;

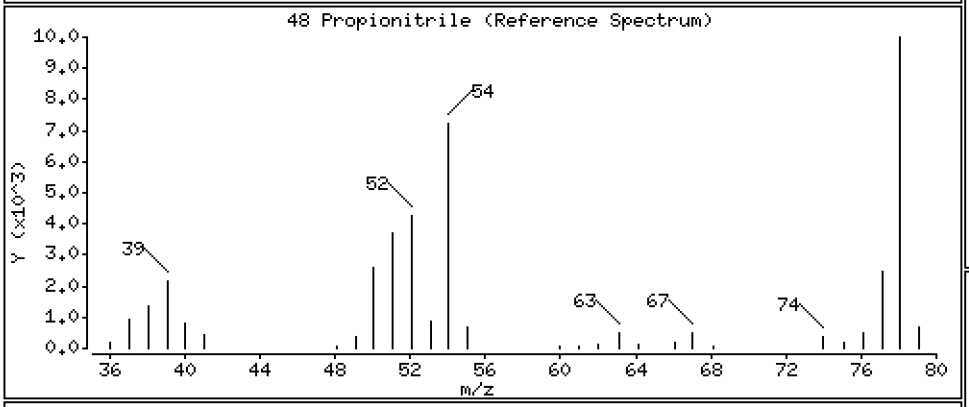
Purge Volume: 5.0 Operator: CJG

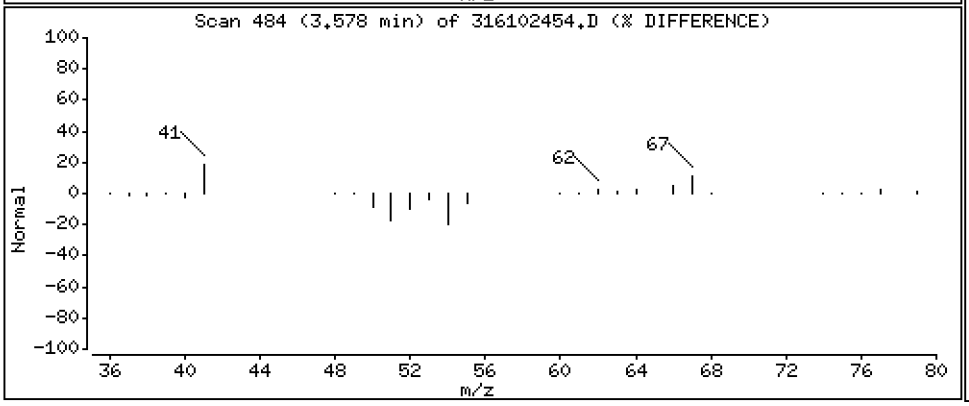
Column phase: DB-VRX Column diameter: 0.25

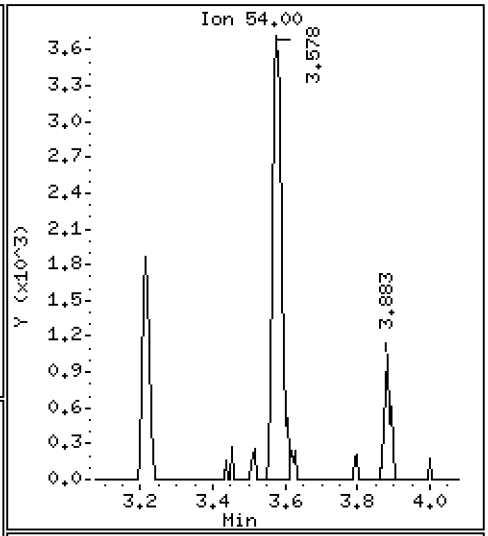
48 Propionitrile Concentration: 5.50744 ug/L

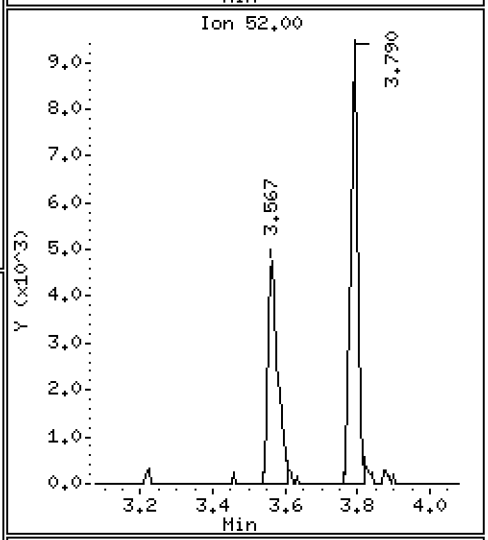


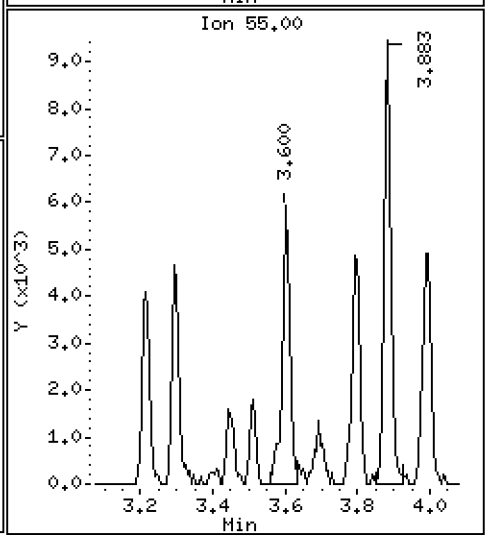












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 56

Date : 24-OCT-2016 23:46

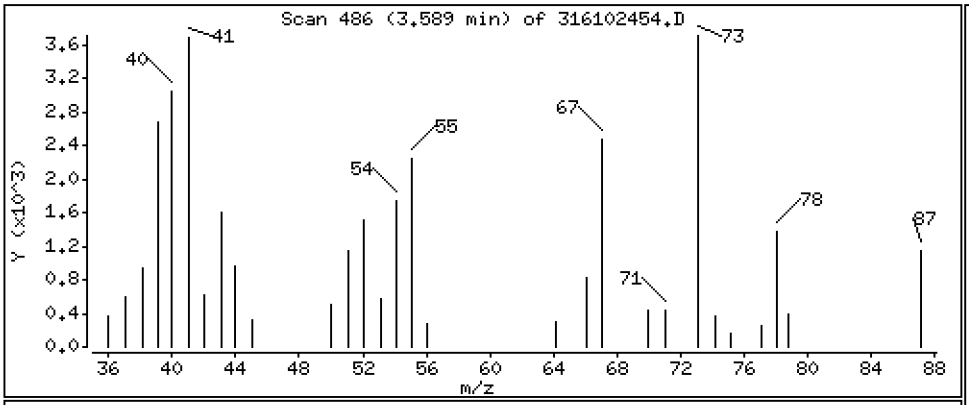
Client ID: Instrument: ms03.i

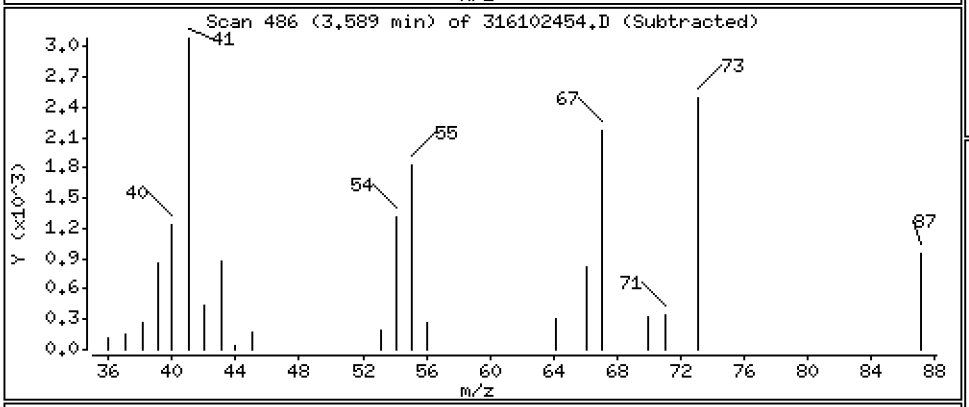
Sample Info: 1234;;1;1;1;;;

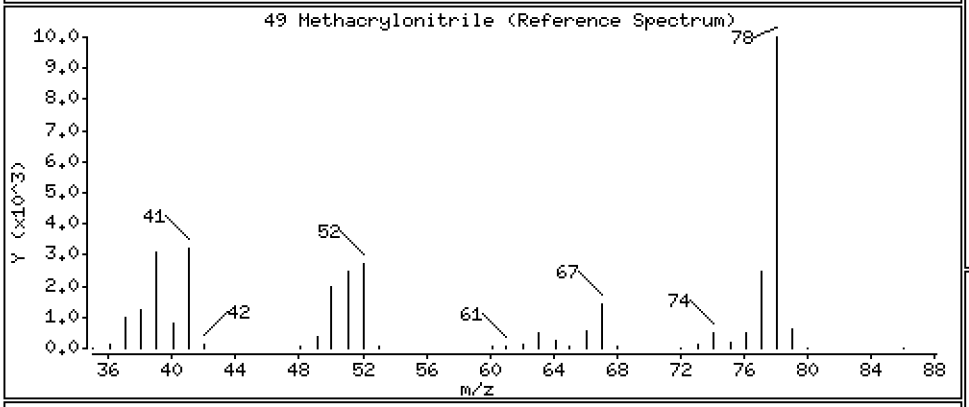
Purge Volume: 5.0 Operator: CJG

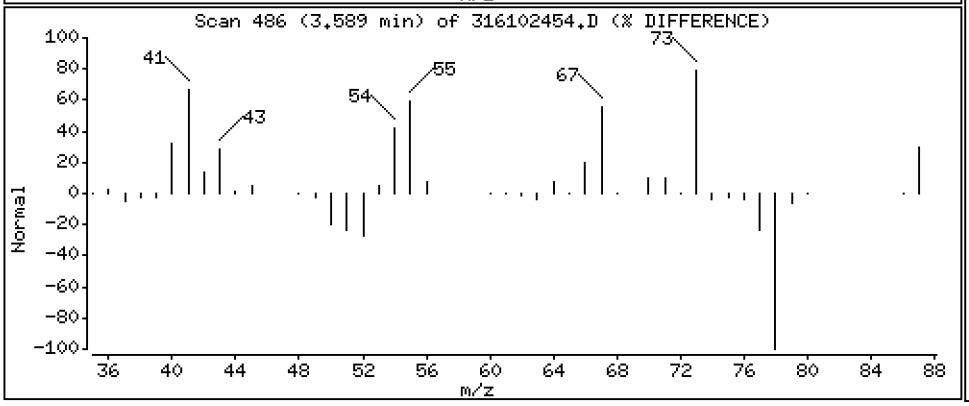
Column phase: DB-VRX Column diameter: 0.25

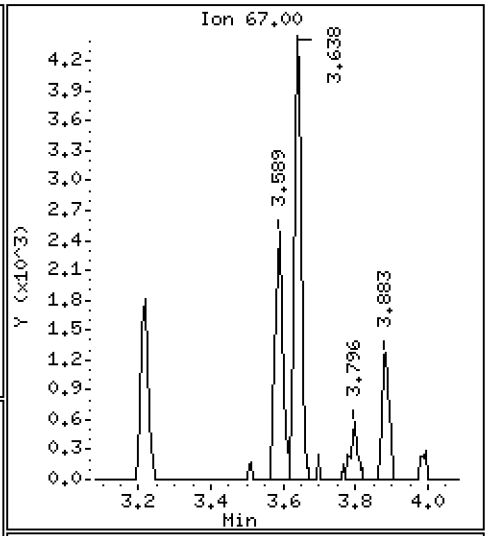
49 Methacrylonitrile Concentration: 1.07968 ug/L

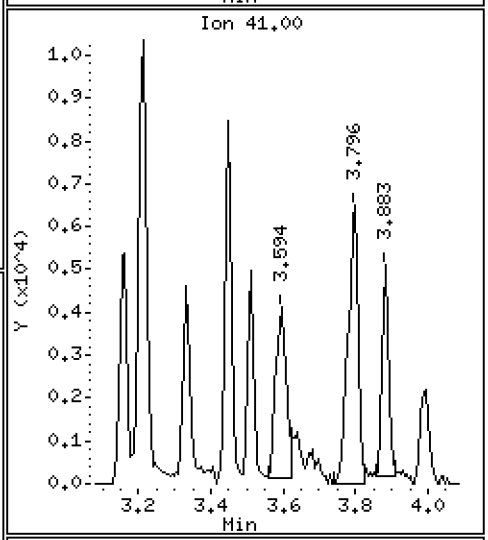


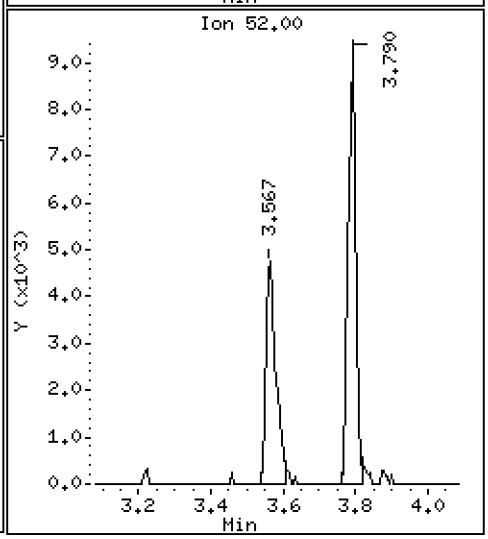












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 57

Date : 24-OCT-2016 23:46

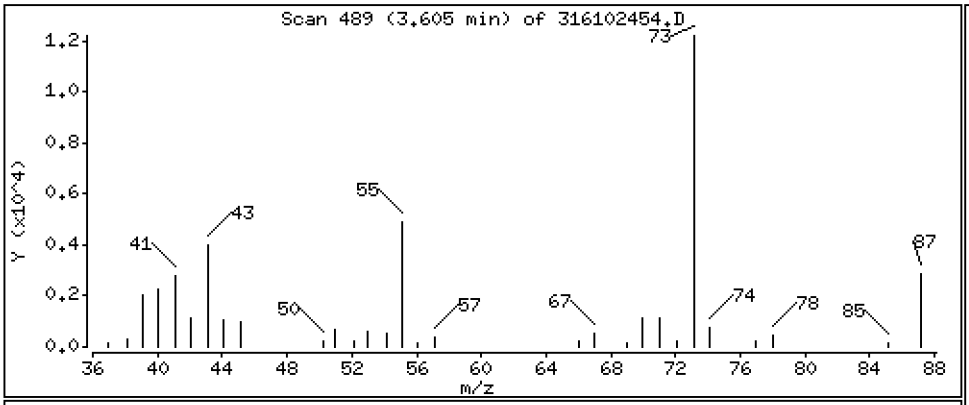
Client ID: Instrument: ms03.i

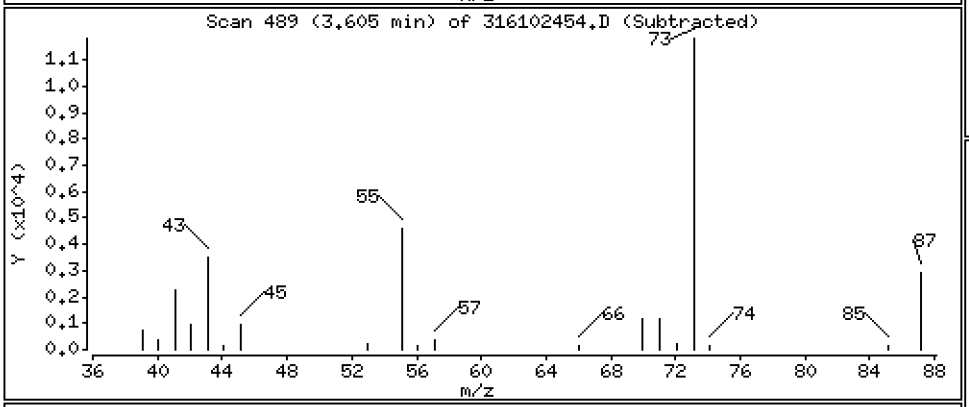
Sample Info: 1234;;1;1;1;;;

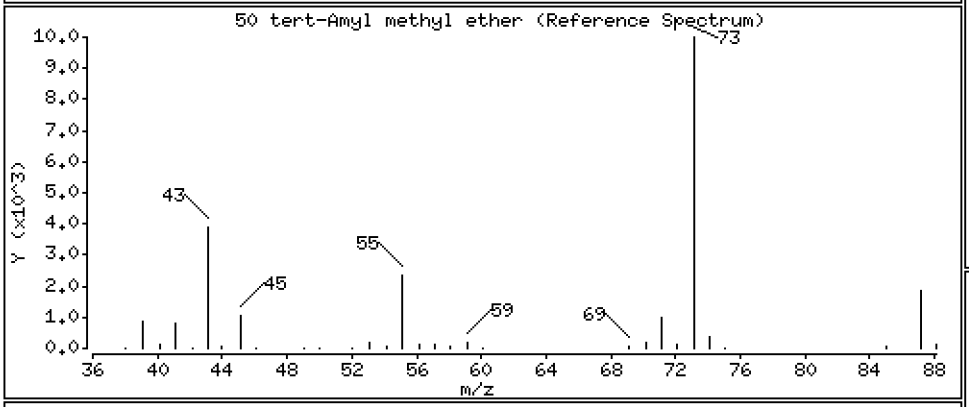
Purge Volume: 5.0 Operator: CJG

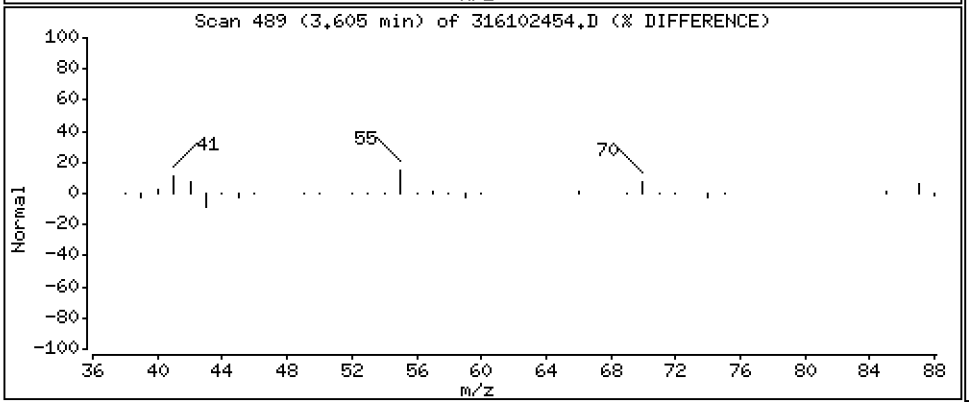
Column phase: DB-VRX Column diameter: 0.25

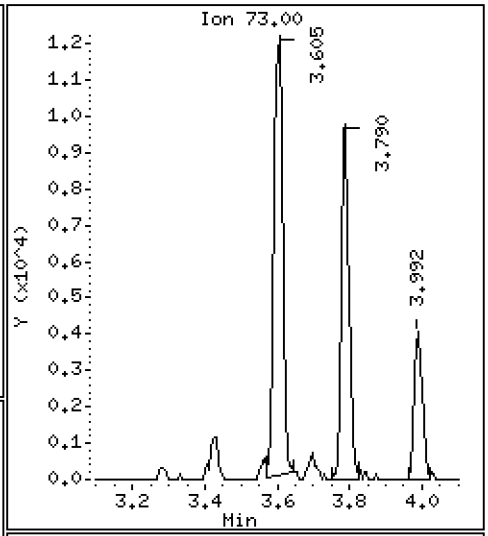
50 tert-Amyl methyl ether Concentration: 0.948067 ug/L

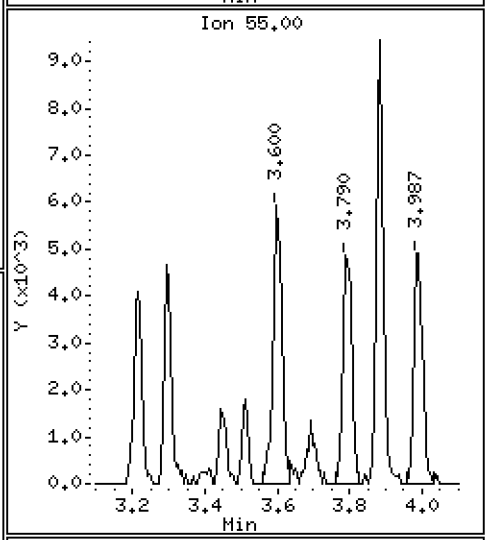


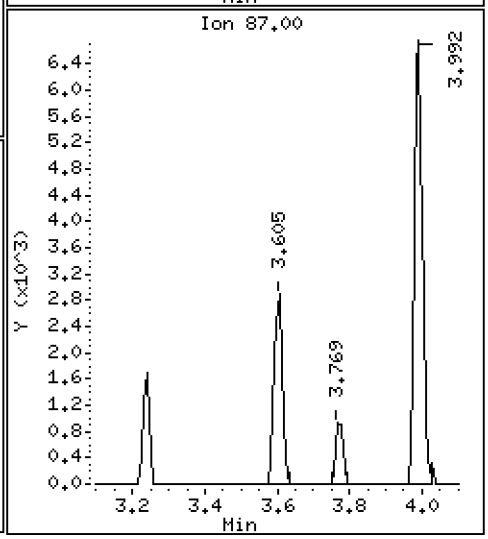












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 58

Date : 24-OCT-2016 23:46

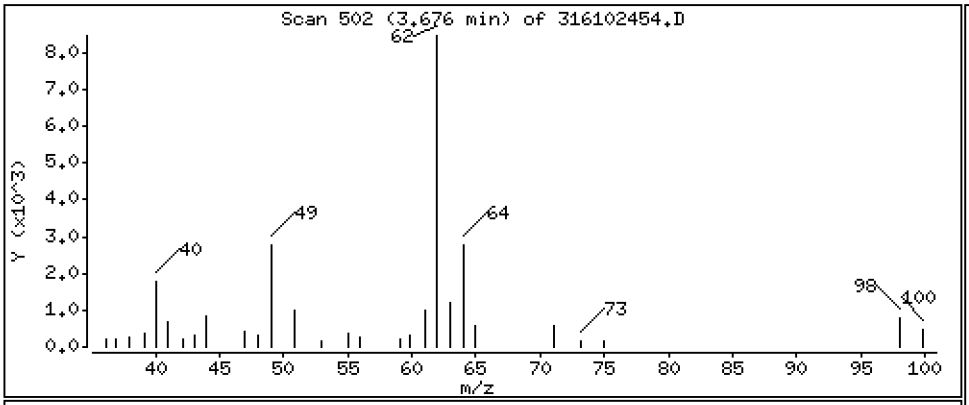
Client ID: Instrument: ms03.i

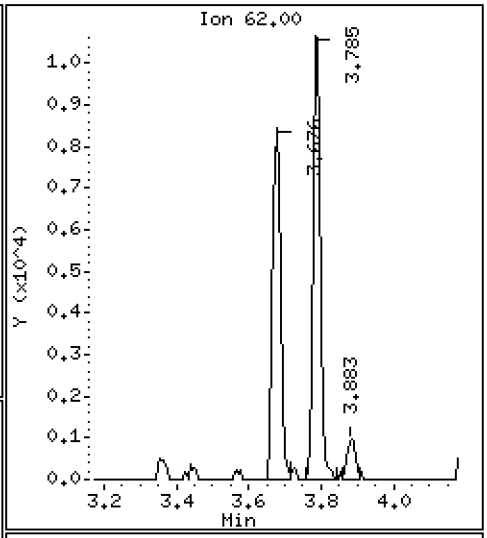
Sample Info: 1234;;1;1;1;;;

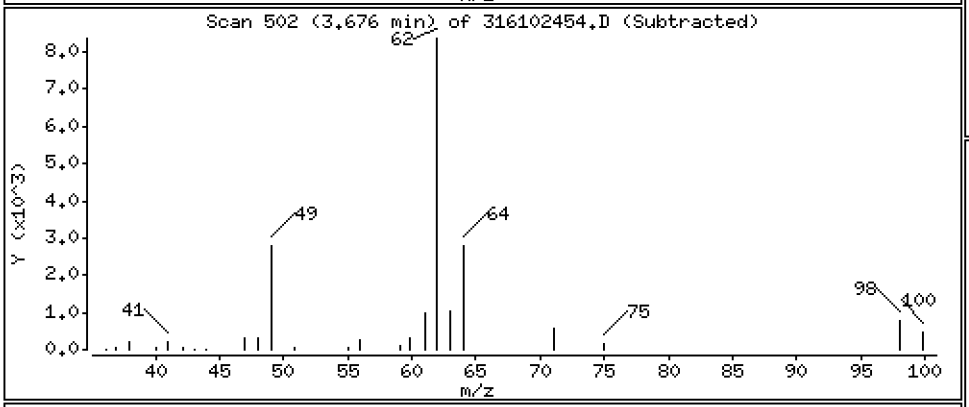
Purge Volume: 5.0 Operator: CJG

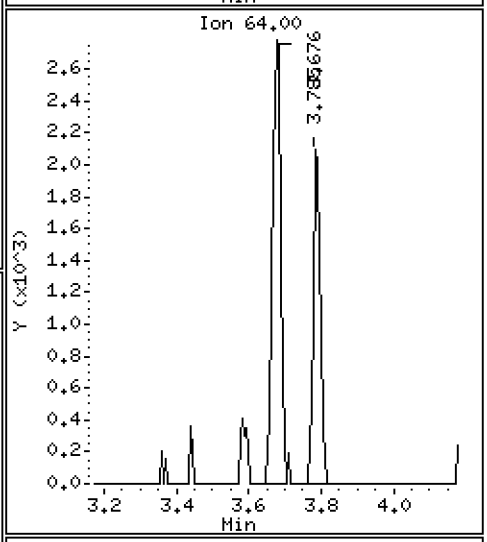
Column phase: DB-VRX Column diameter: 0.25

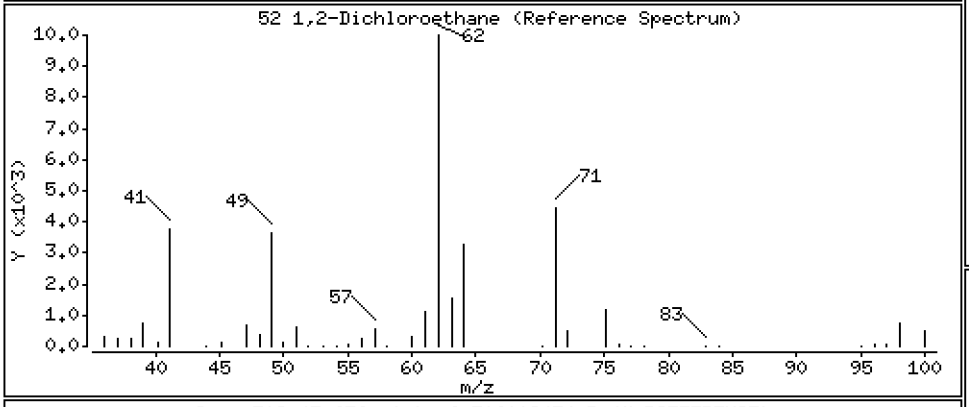
52 1,2-Dichloroethane Concentration: 1.12467 ug/L

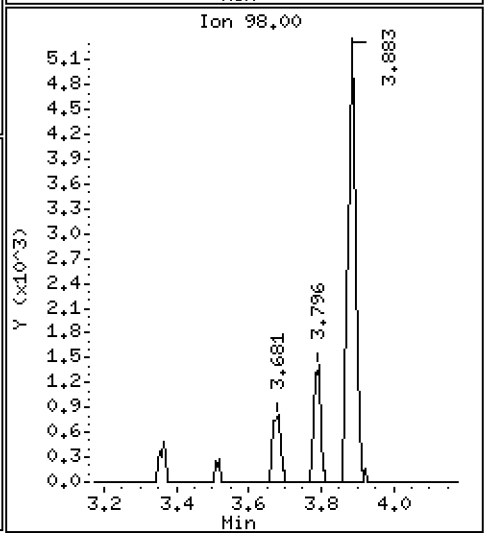


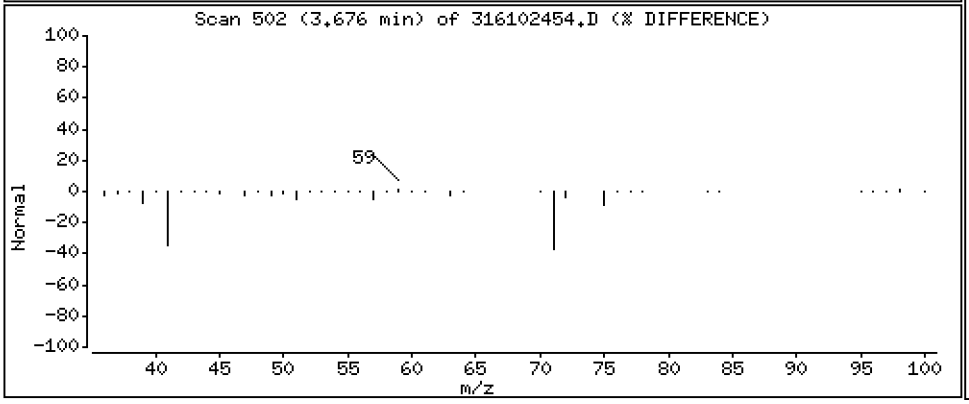












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 59

Date : 24-OCT-2016 23:46

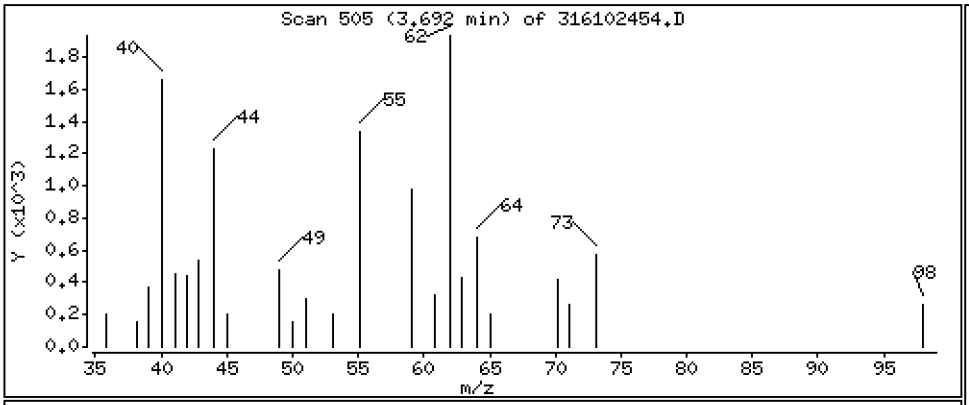
Client ID: Instrument: ms03.i

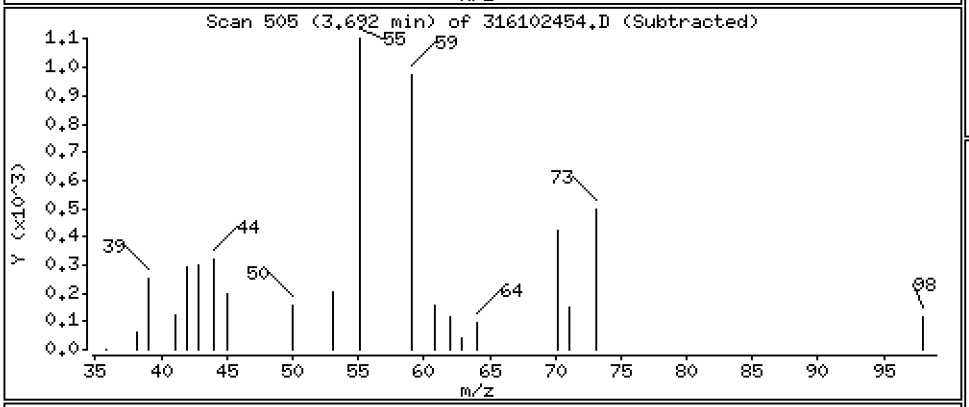
Sample Info: 1234;;1;1;1;;;

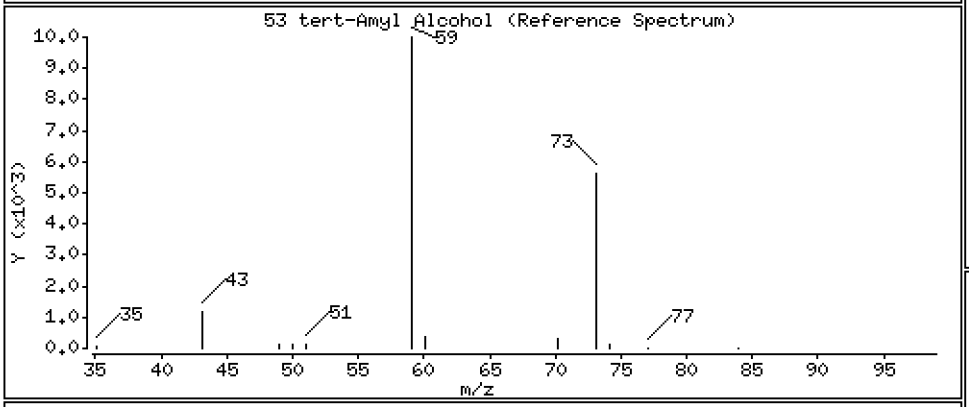
Purge Volume: 5.0 Operator: CJG

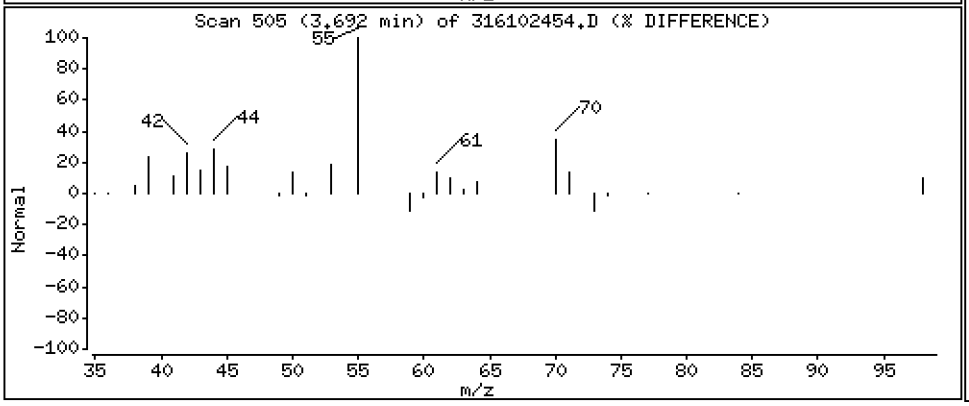
Column phase: DB-VRX Column diameter: 0.25

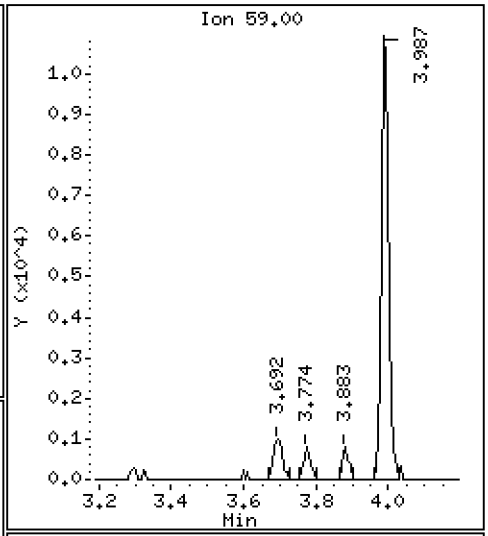
53 tert-Amyl Alcohol Concentration: 4.53623 ug/L

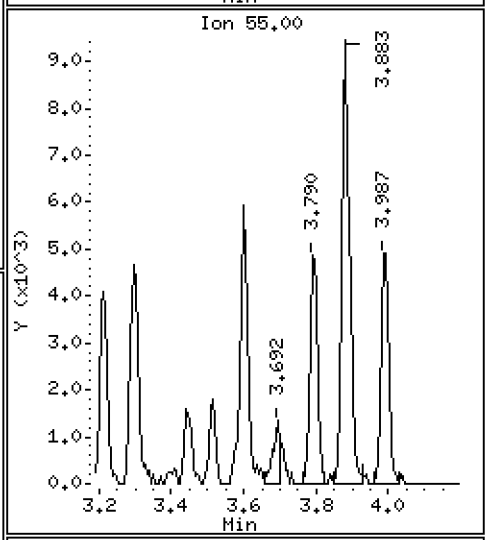


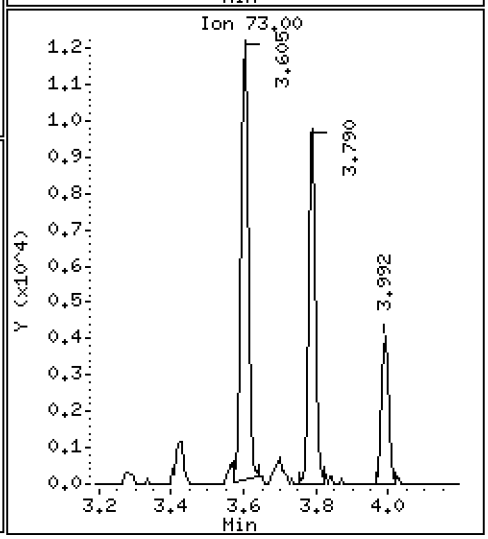












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 60

Date : 24-OCT-2016 23:46

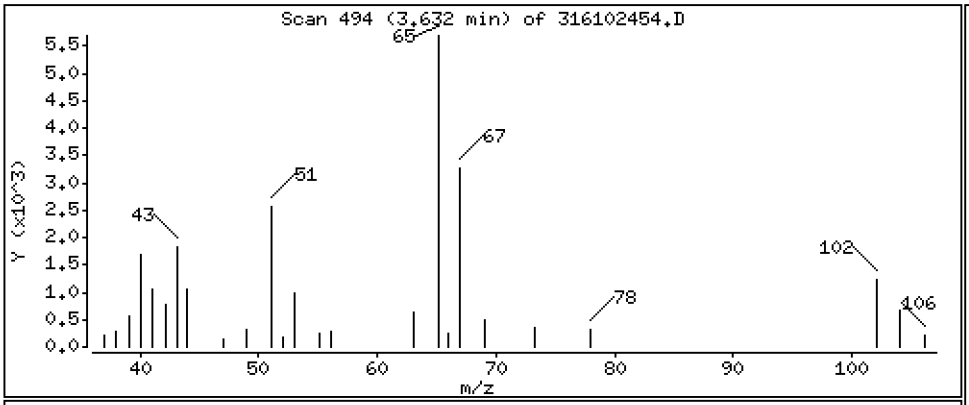
Client ID: Instrument: ms03.i

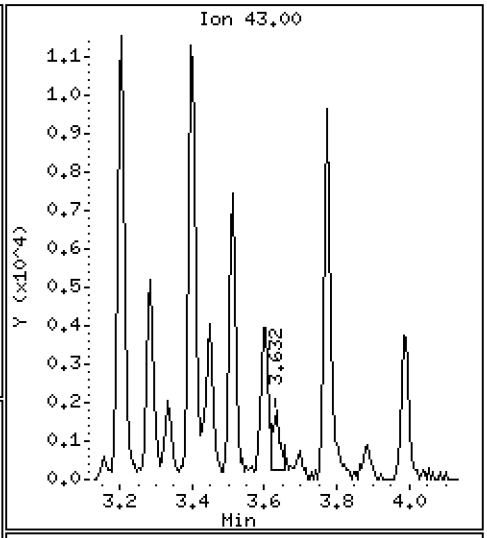
Sample Info: 1234;;1;1;1;;;

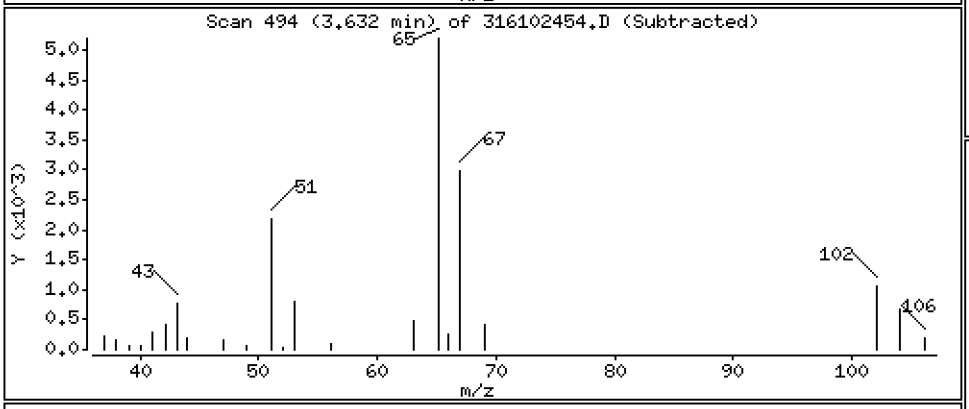
Purge Volume: 5.0 Operator: CJG

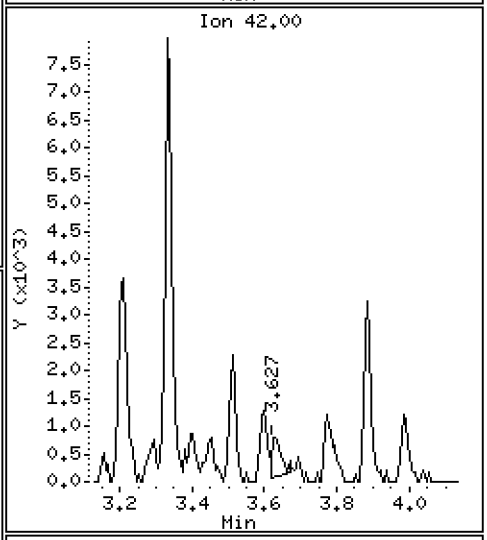
Column phase: DB-VRX Column diameter: 0.25

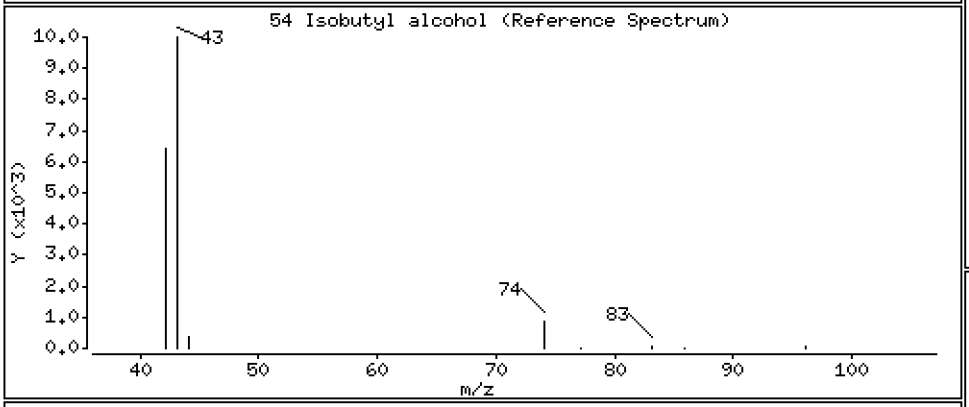
54 Isobutyl alcohol Concentration: 12.1183 ug/L

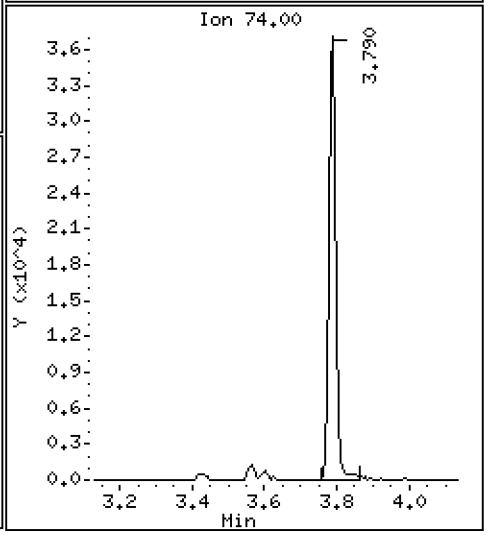


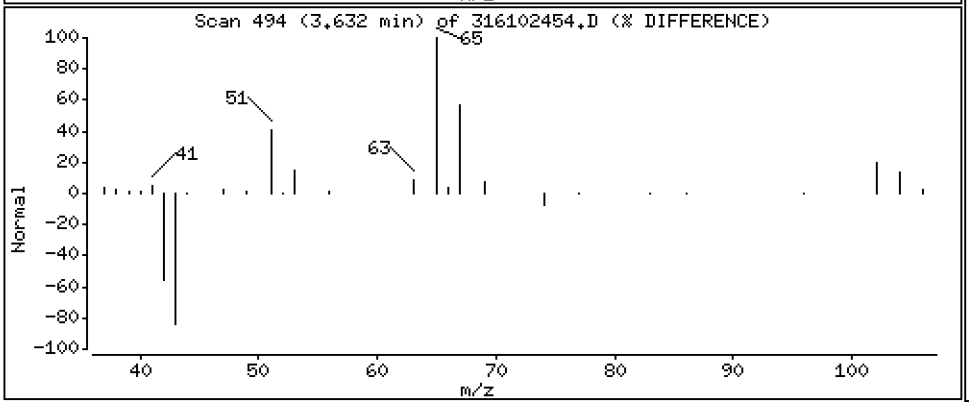












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 61

Date : 24-OCT-2016 23:46

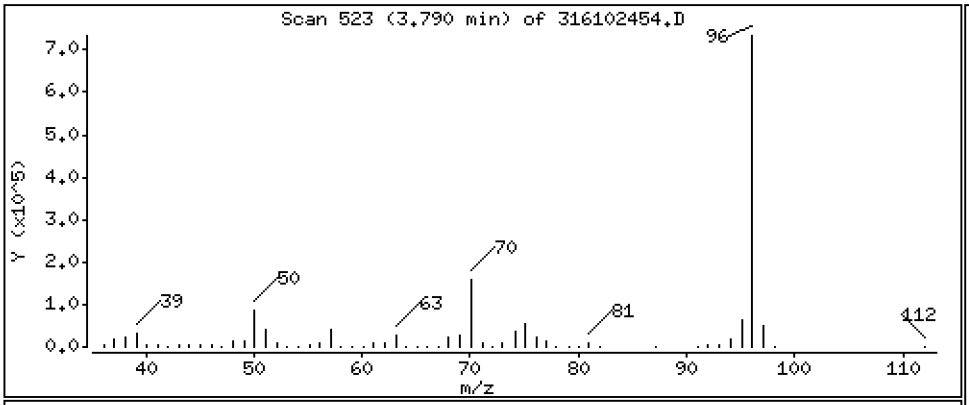
Client ID: Instrument: ms03.i

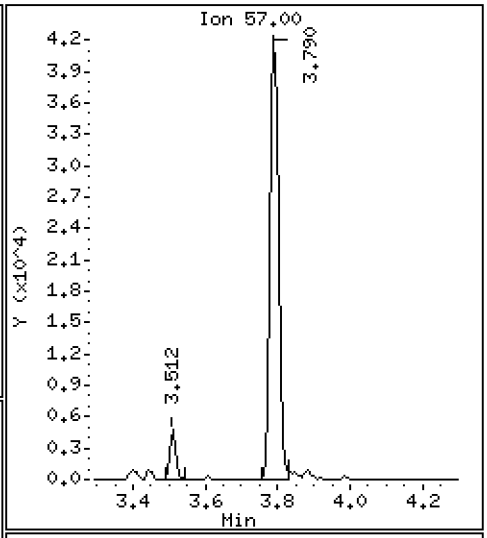
Sample Info: 1234;;1;1;1;;;

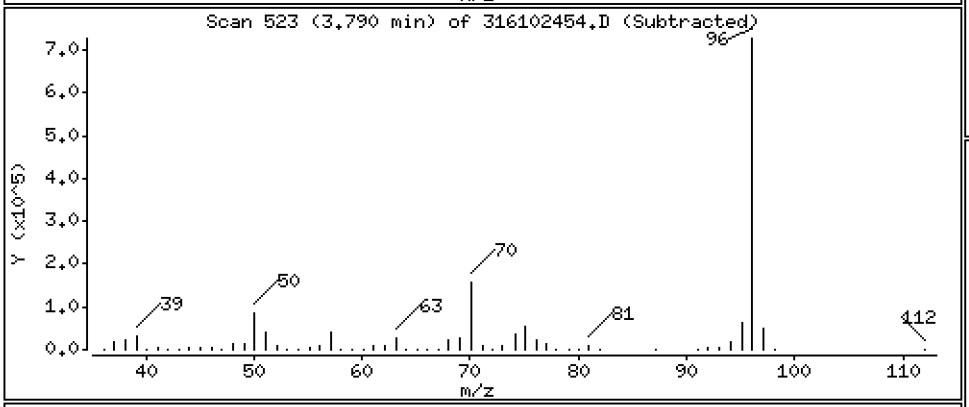
Purge Volume: 5.0 Operator: CJG

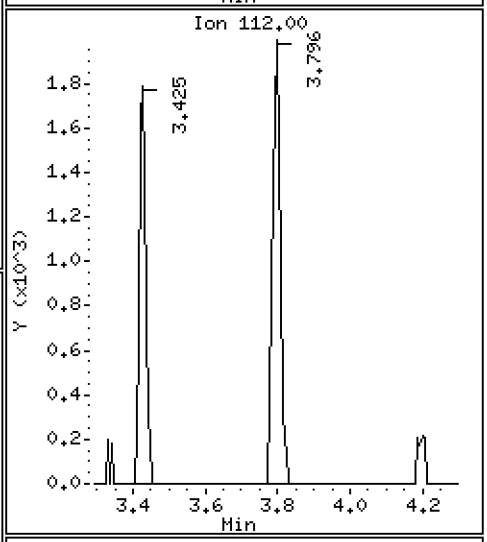
Column phase: DB-VRX Column diameter: 0.25

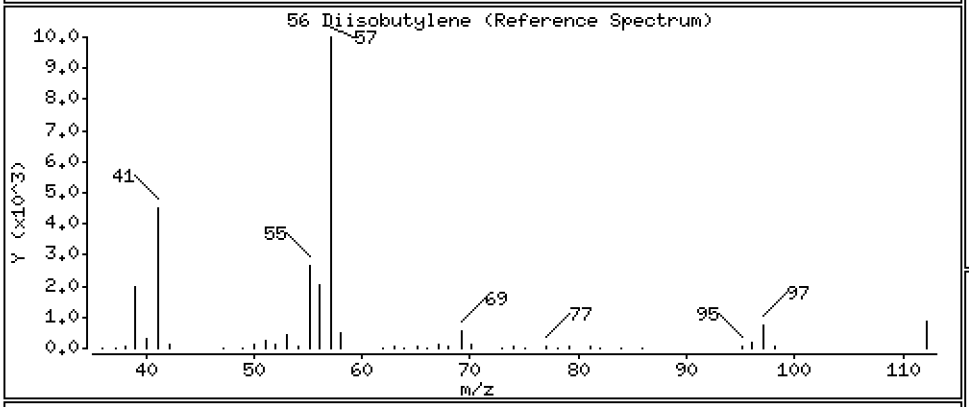
56 Diisobutylene Concentration: 2.98675 ug/L

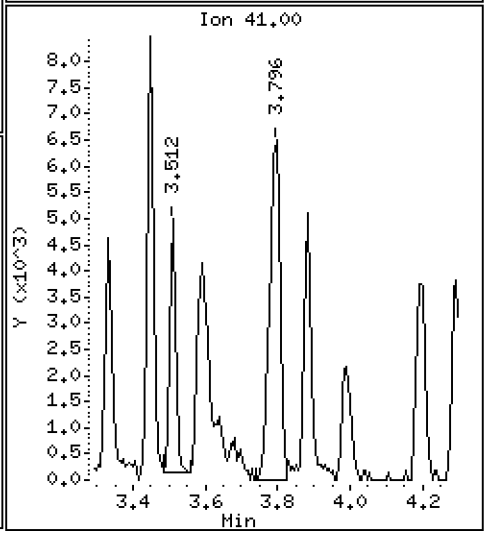


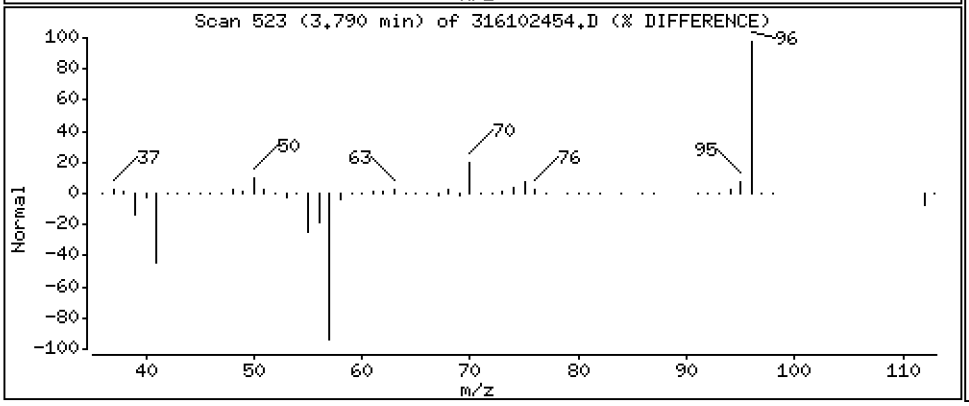












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 62

Date : 24-OCT-2016 23:46

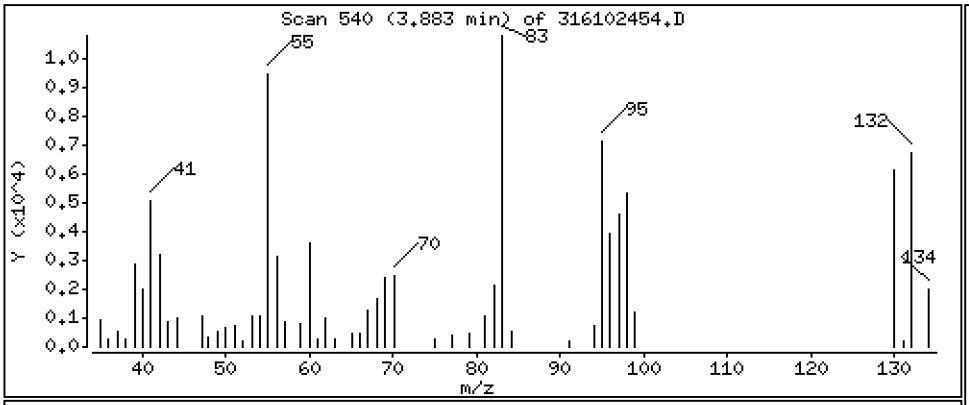
Client ID: Instrument: ms03.i

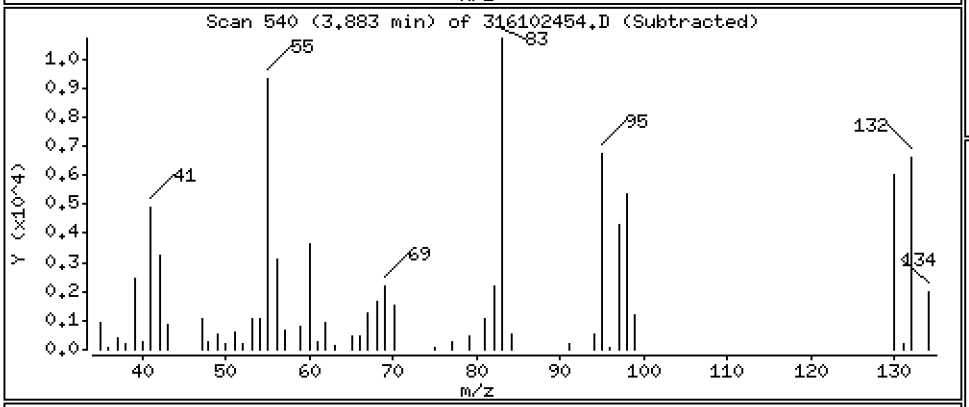
Sample Info: 1234;;1;1;1;;;

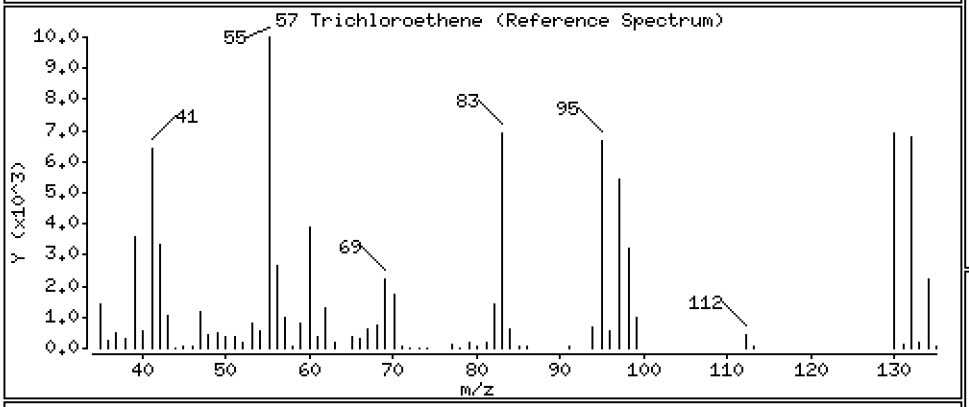
Purge Volume: 5.0 Operator: CJG

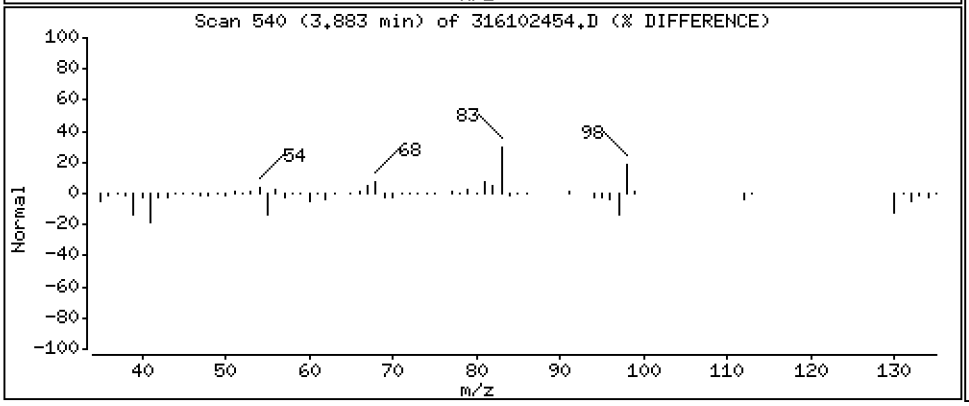
Column phase: DB-VRX Column diameter: 0.25

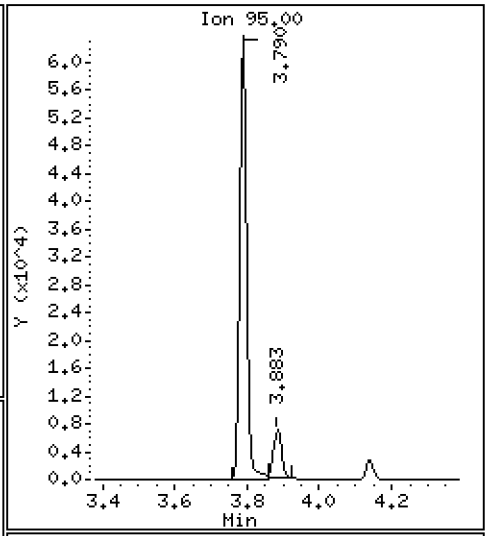
57 Trichloroethene Concentration: 1.28343 ug/L

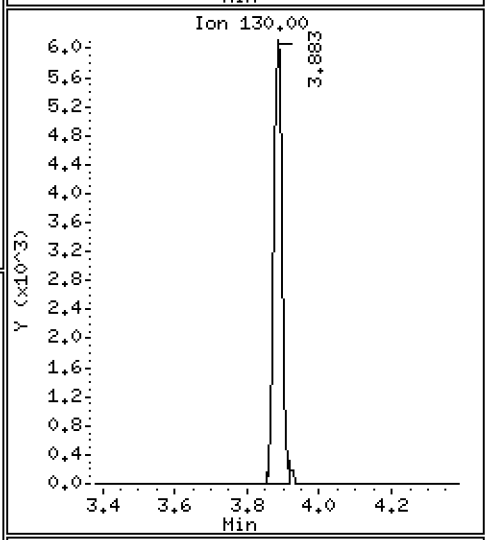


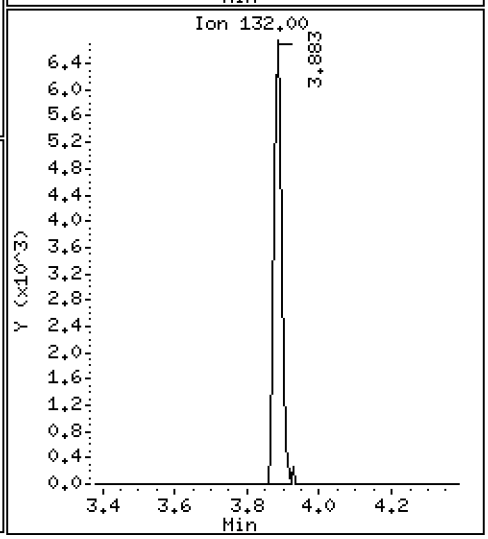












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 63

Date : 24-OCT-2016 23:46

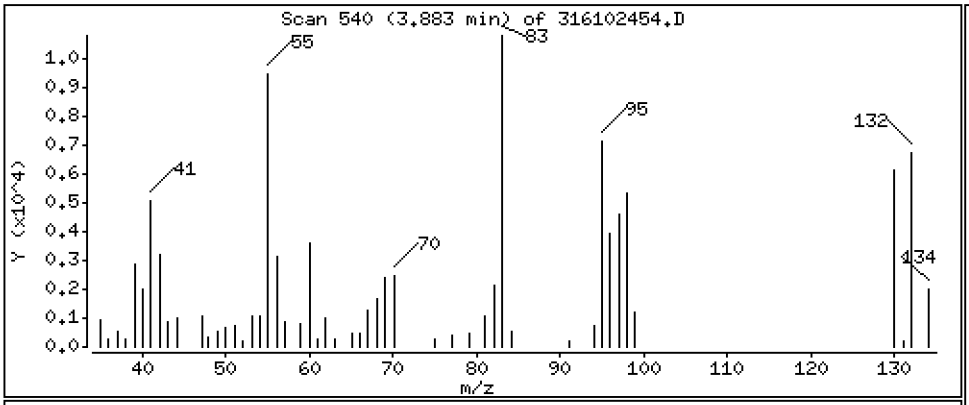
Client ID: Instrument: ms03.i

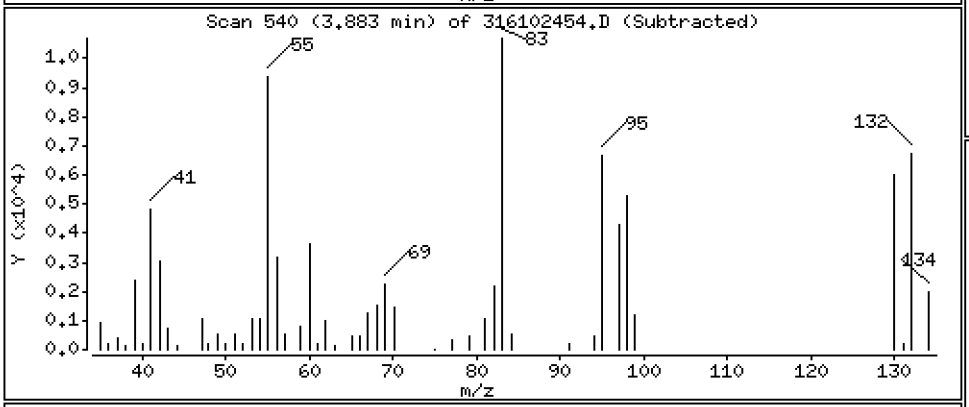
Sample Info: 1234;;1;1;1;;;

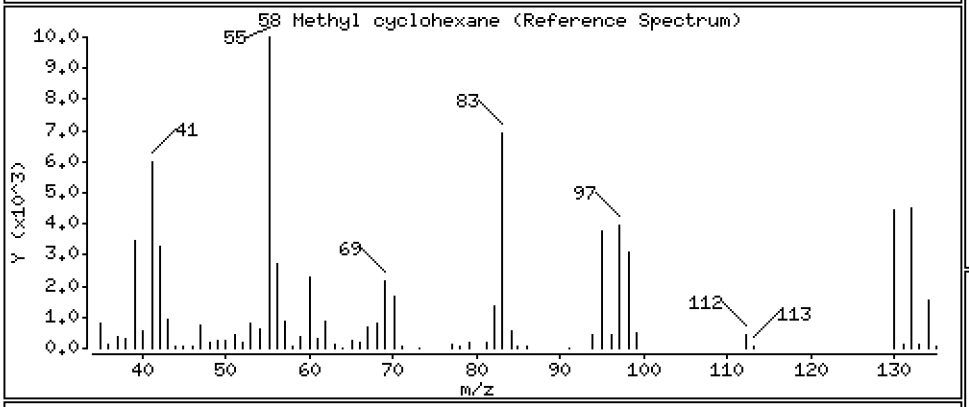
Purge Volume: 5.0 Operator: CJG

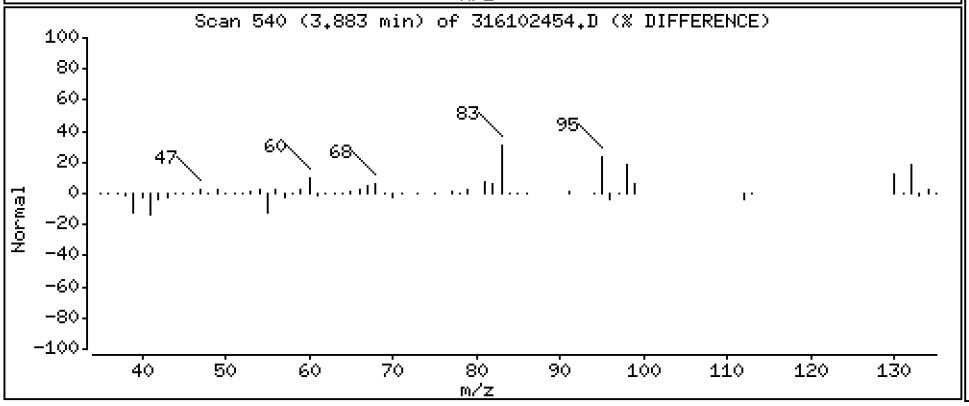
Column phase: DB-VRX Column diameter: 0.25

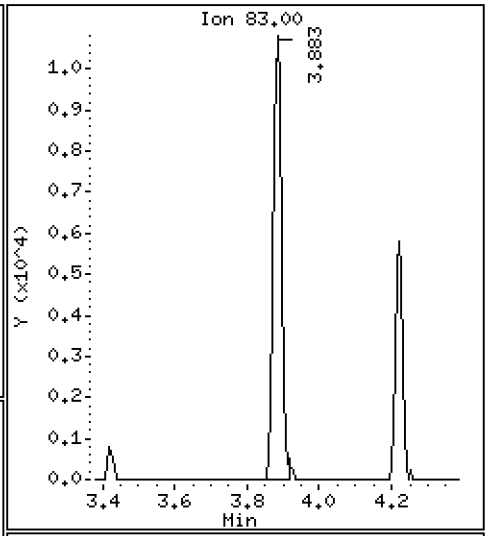
58 Methyl cyclohexane Concentration: 1.32866 ug/L

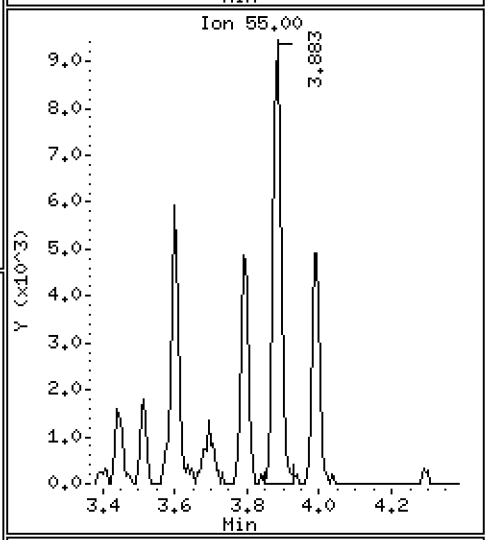


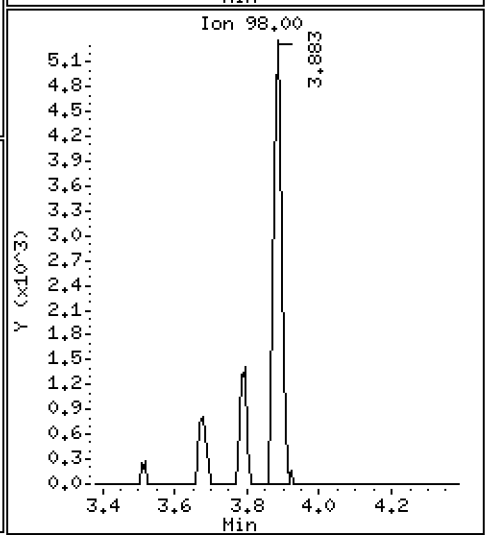












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 64

Date : 24-OCT-2016 23:46

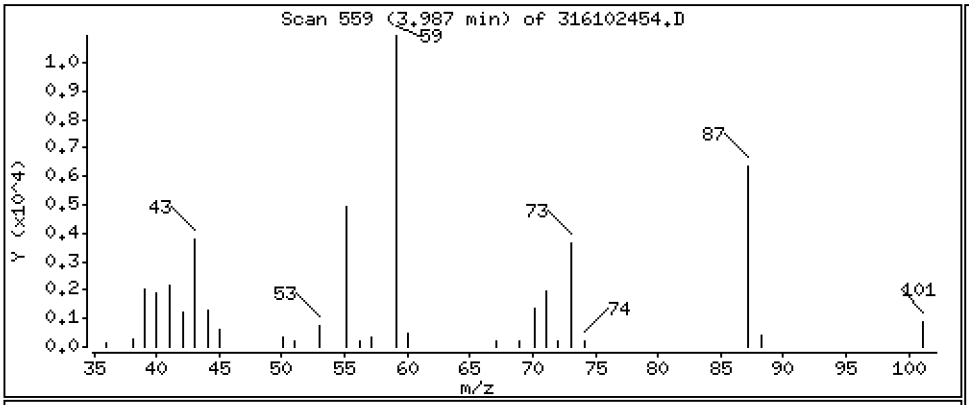
Client ID: Instrument: ms03.i

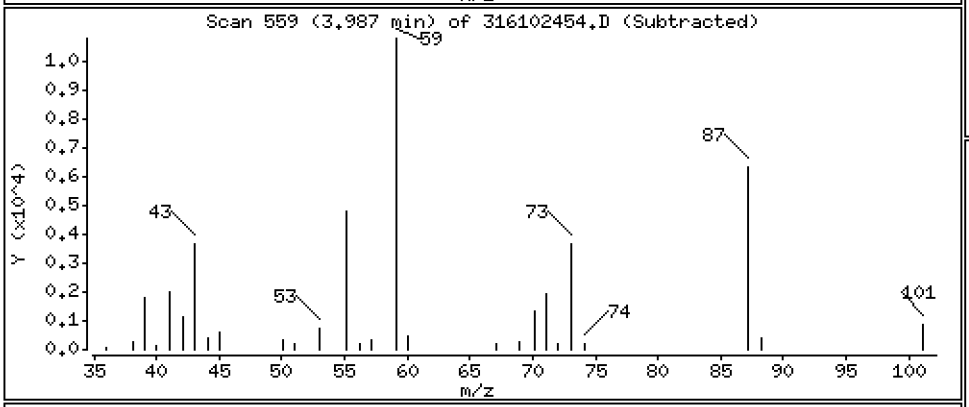
Sample Info: 1234;;1;1;1;;;

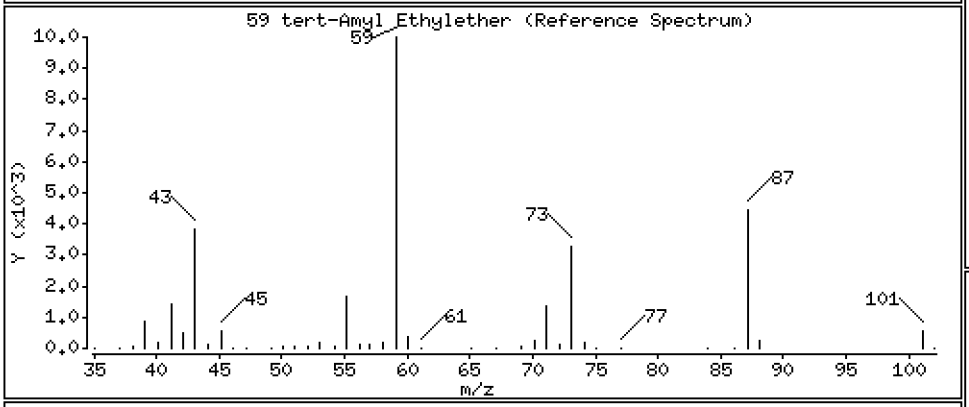
Purge Volume: 5.0 Operator: CJG

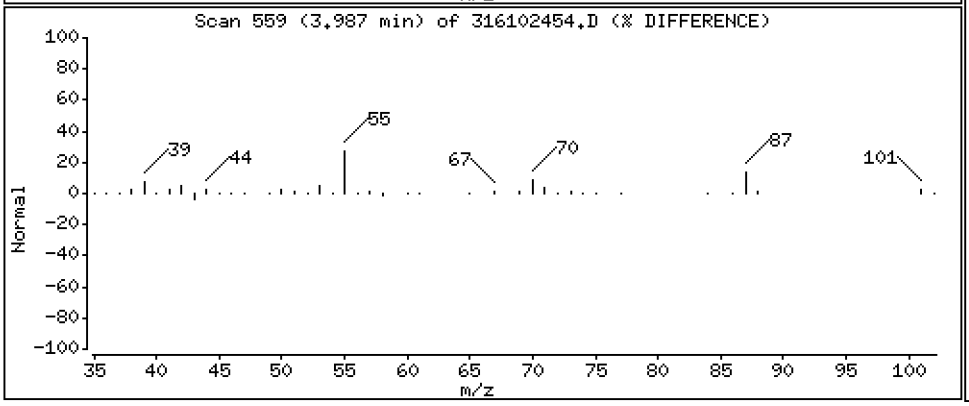
Column phase: DB-VRX Column diameter: 0.25

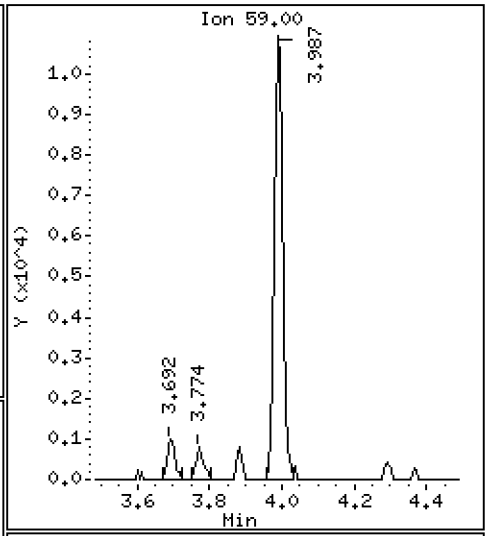
59 tert-Amyl Ethylether Concentration: 0.904491 ug/L

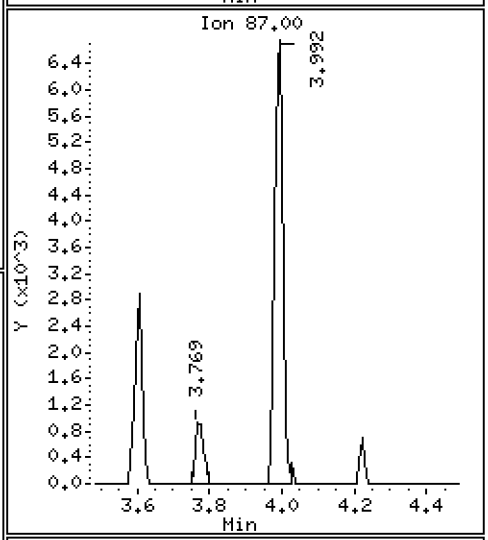


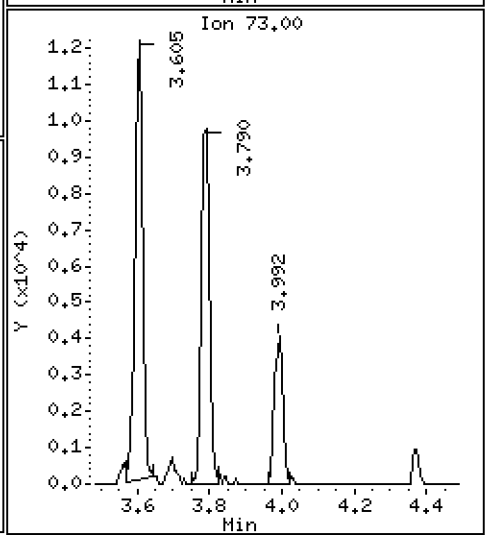












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 65

Date : 24-OCT-2016 23:46

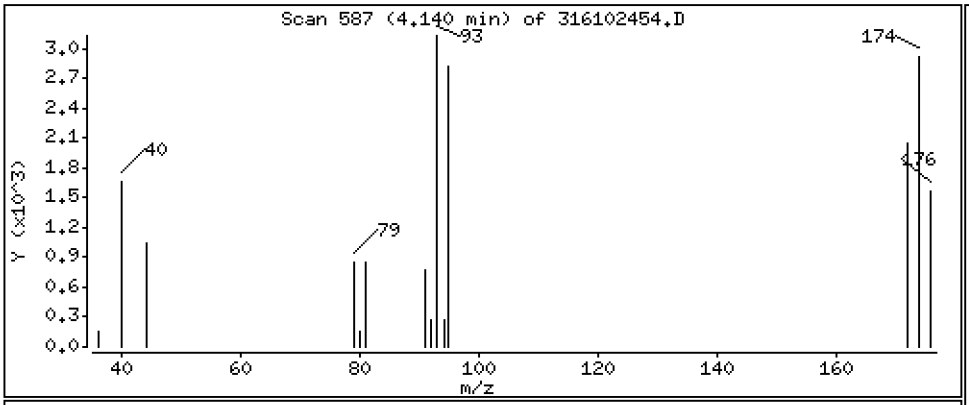
Client ID: Instrument: ms03.i

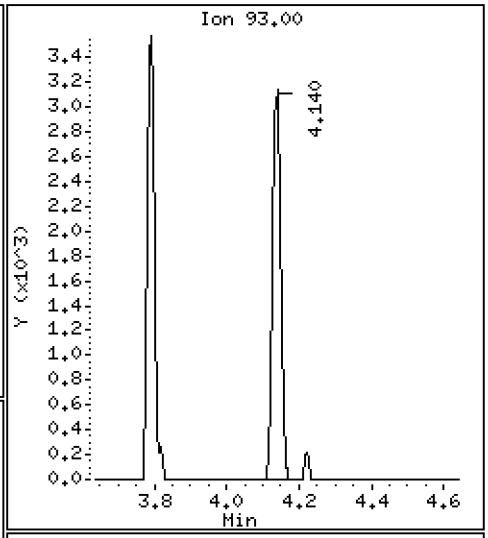
Sample Info: 1234;;1;1;1;;;

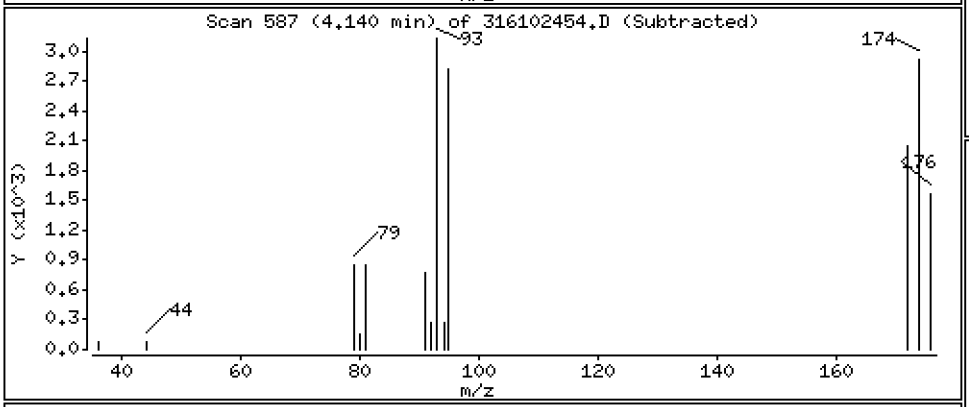
Purge Volume: 5.0 Operator: CJG

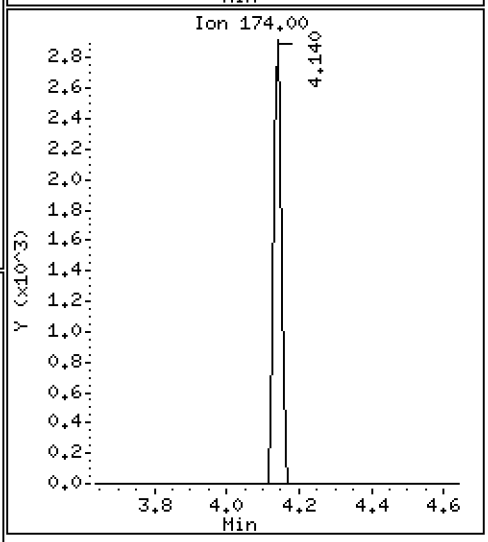
Column phase: DB-VRX Column diameter: 0.25

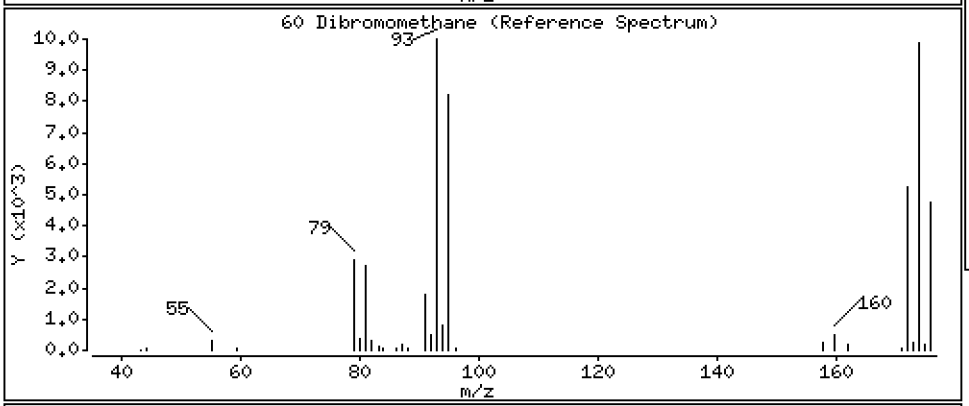
60 Dibromomethane Concentration: 1.00138 ug/L

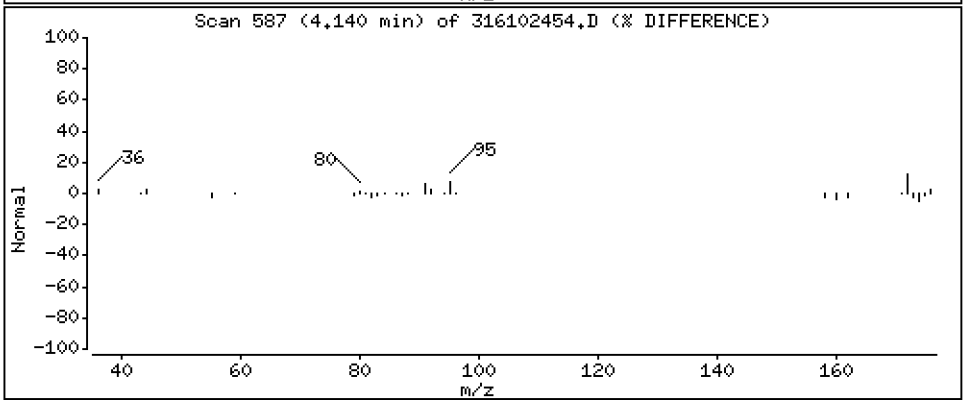












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 66

Date : 24-OCT-2016 23:46

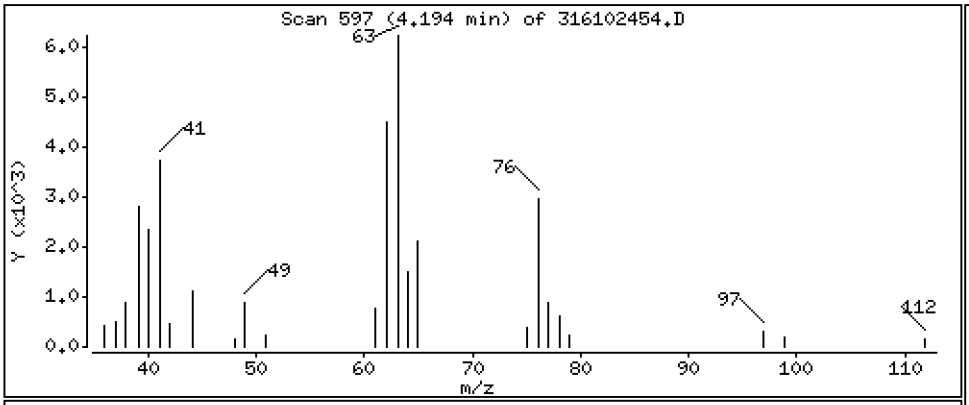
Client ID: Instrument: ms03.i

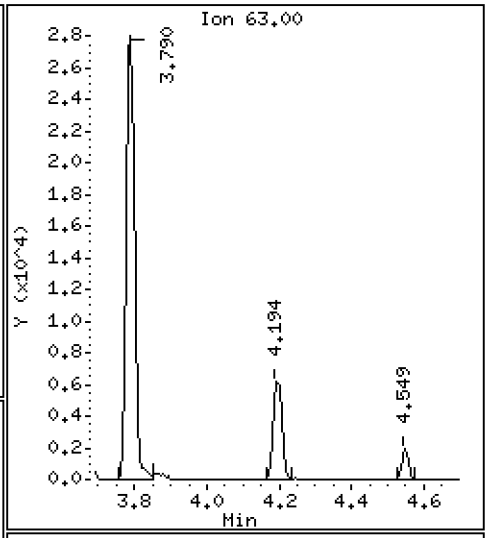
Sample Info: 1234;;1;1;1;;;

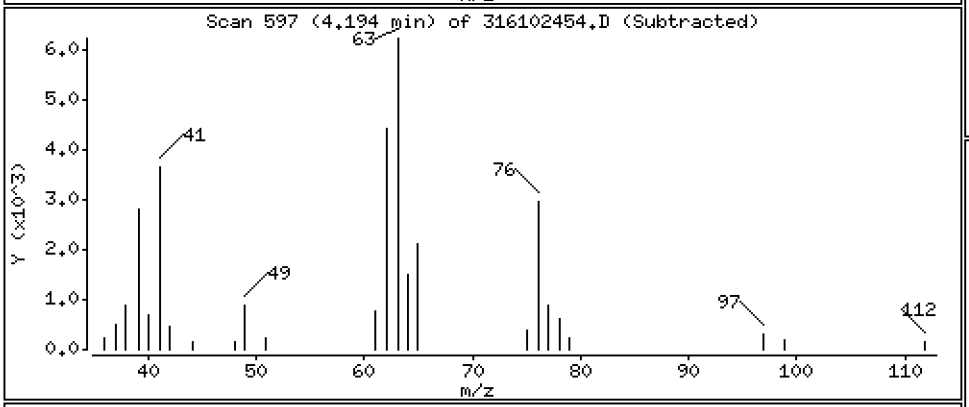
Purge Volume: 5.0 Operator: CJG

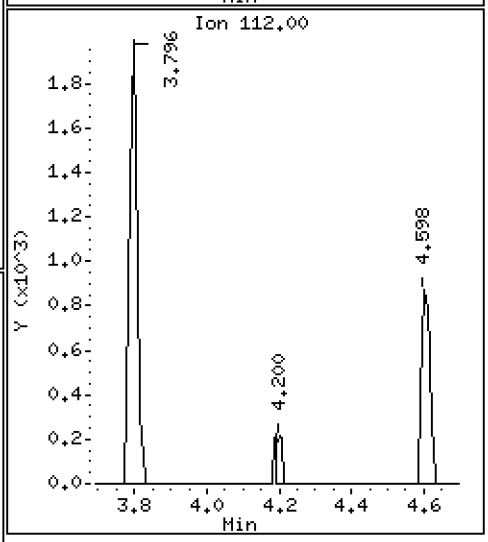
Column phase: DB-VRX Column diameter: 0.25

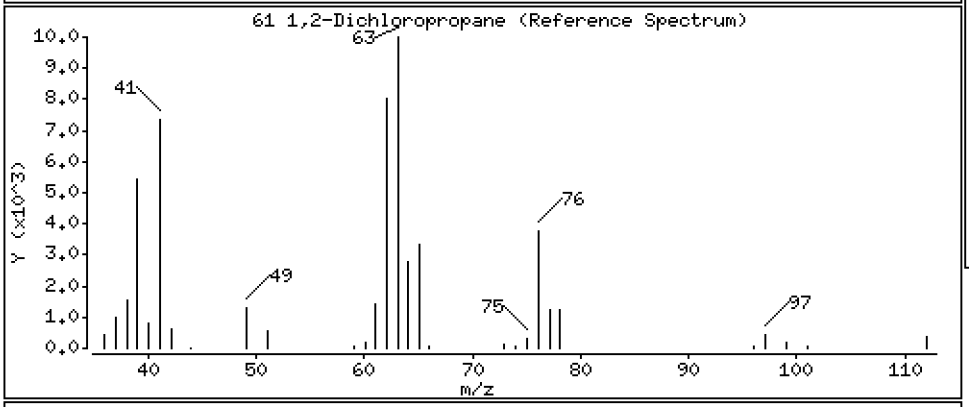
61 1,2-Dichloropropane Concentration: 1.05159 ug/L

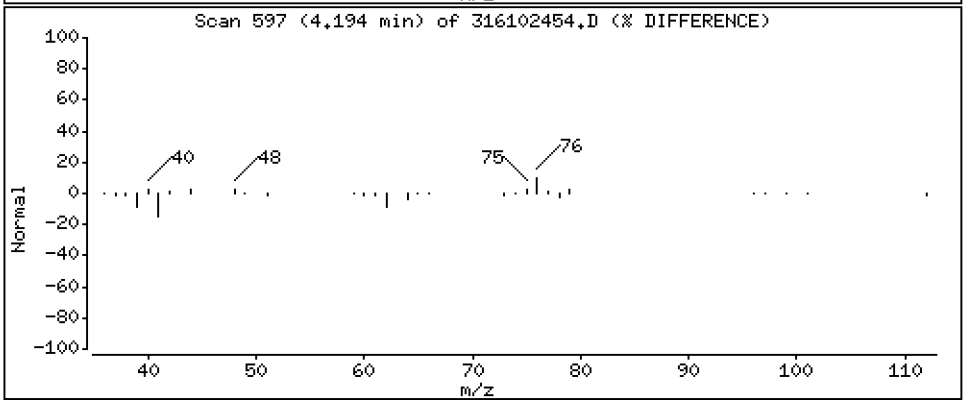












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 67

Date : 24-OCT-2016 23:46

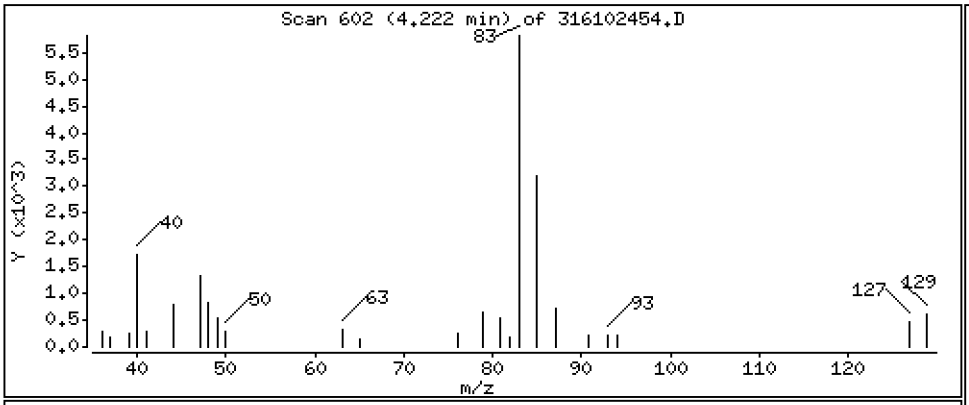
Client ID: Instrument: ms03.i

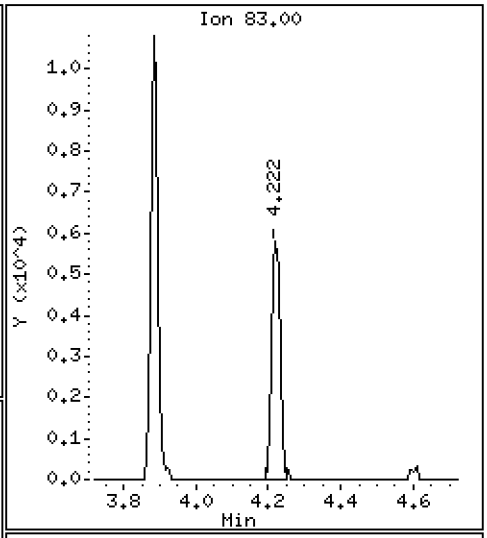
Sample Info: 1234;;1;1;1;;;

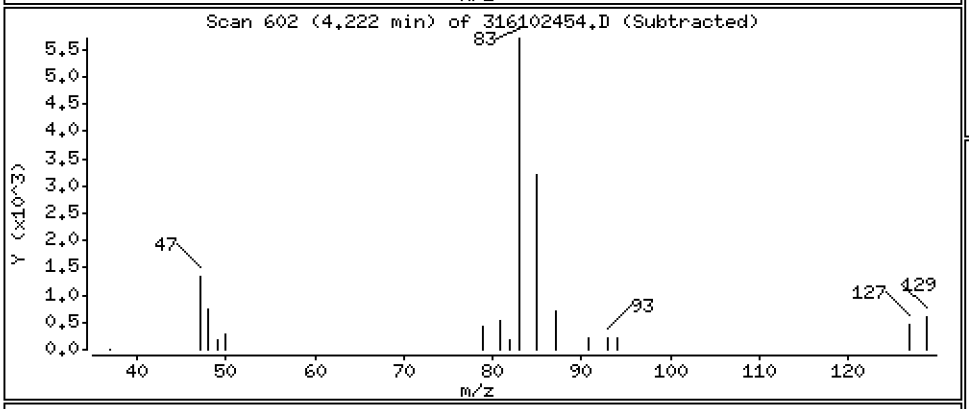
Purge Volume: 5.0 Operator: CJG

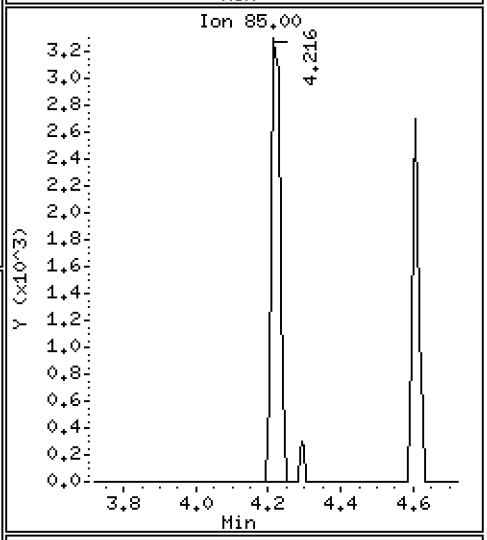
Column phase: DB-VRX Column diameter: 0.25

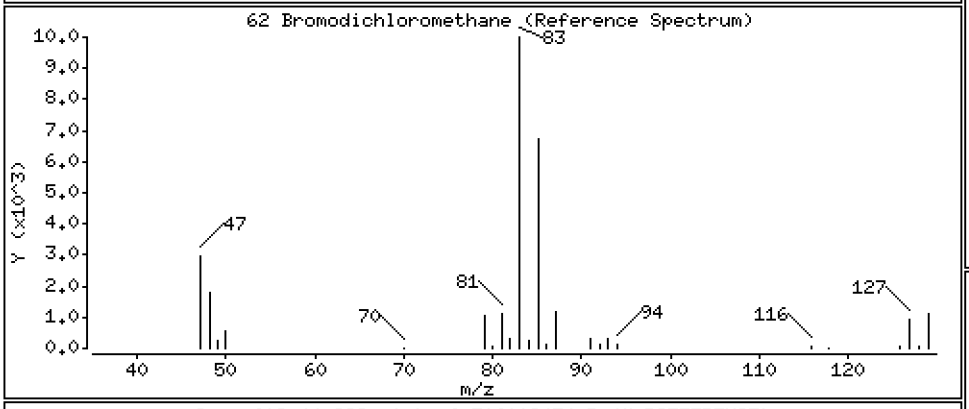
62 Bromodichloromethane Concentration: 0.898278 ug/L

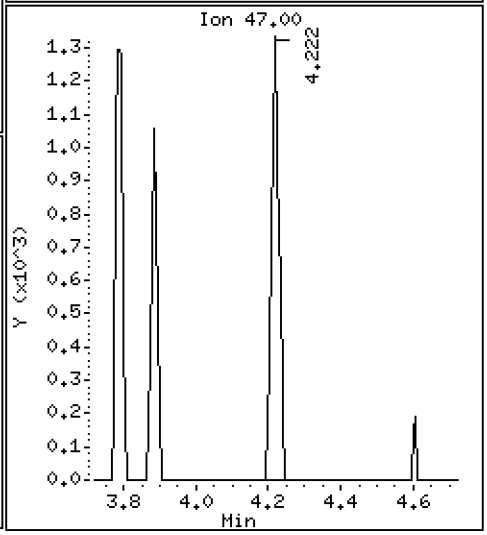


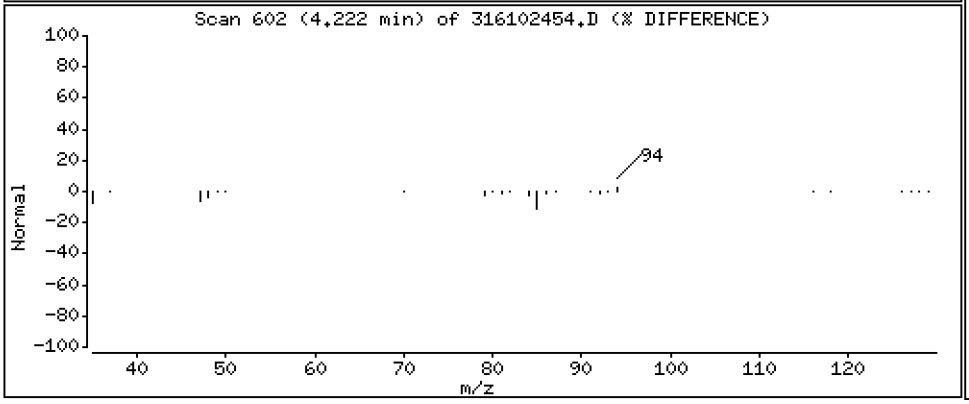












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 68

Date : 24-OCT-2016 23:46

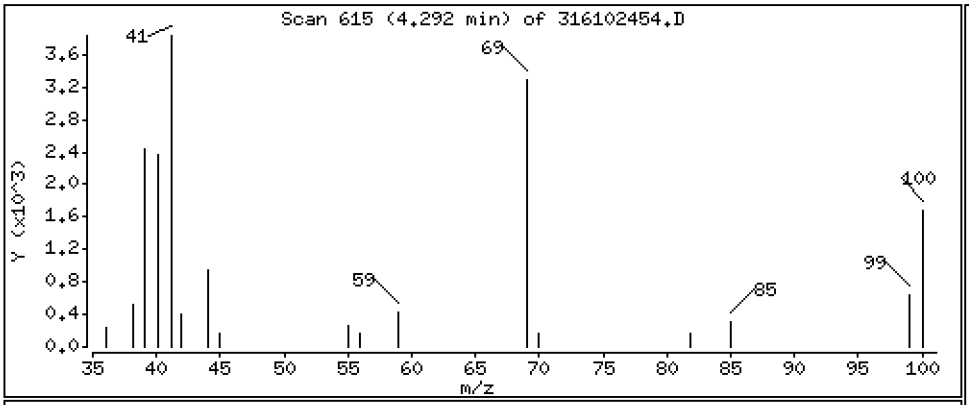
Client ID: Instrument: ms03.i

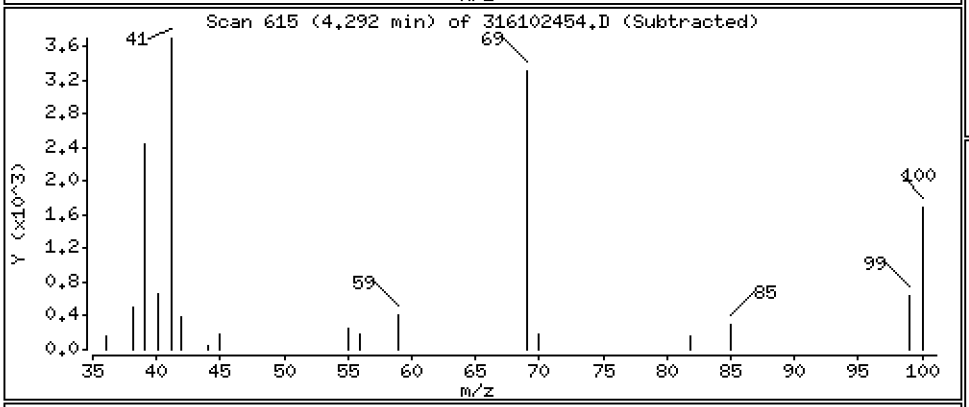
Sample Info: 1234;;1;1;1;;;

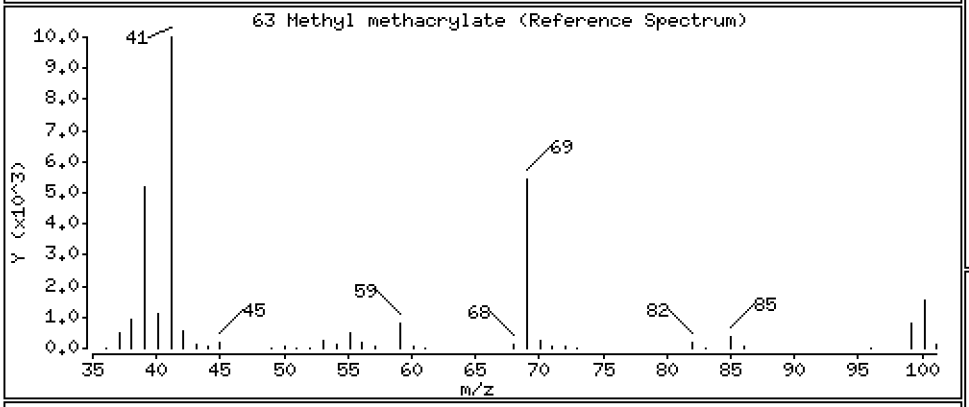
Purge Volume: 5.0 Operator: CJG

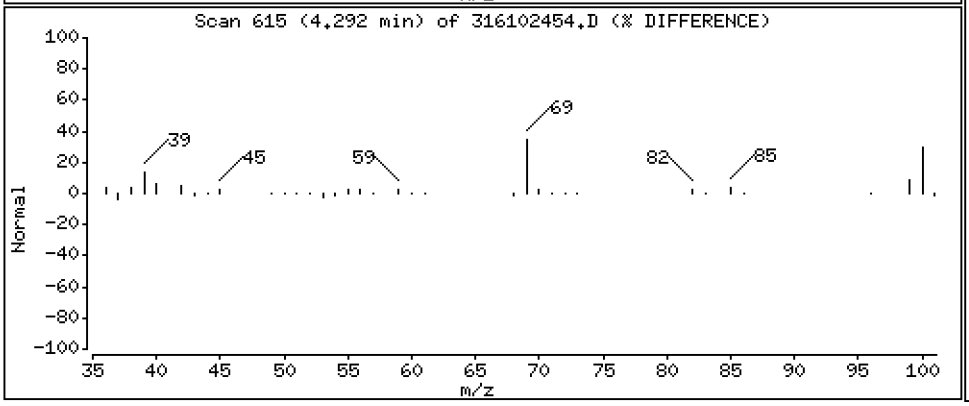
Column phase: DB-VRX Column diameter: 0.25

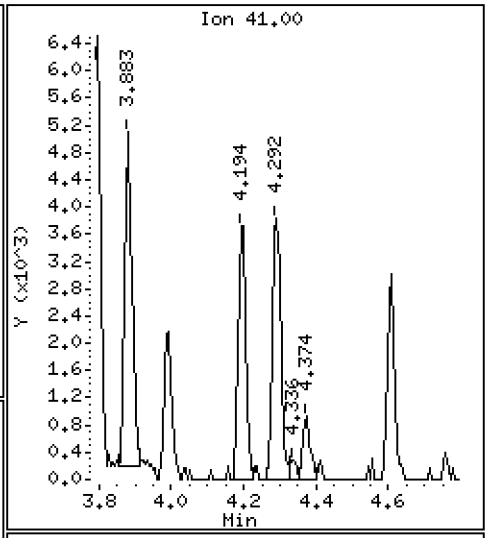
63 Methyl methacrylate Concentration: 0.842816 ug/L

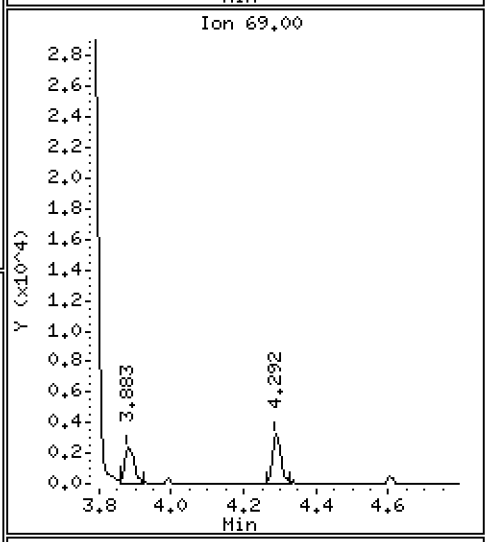


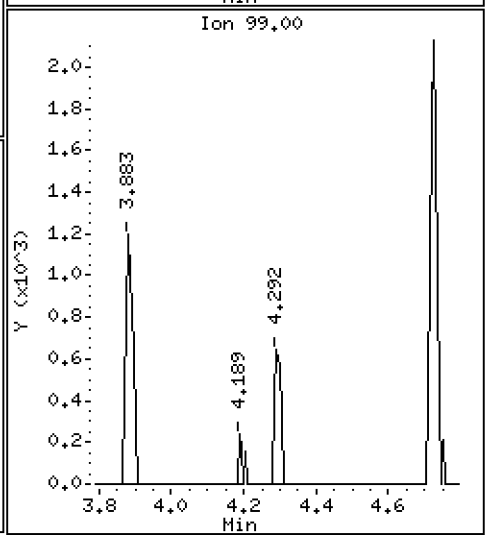












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 69

Date : 24-OCT-2016 23:46

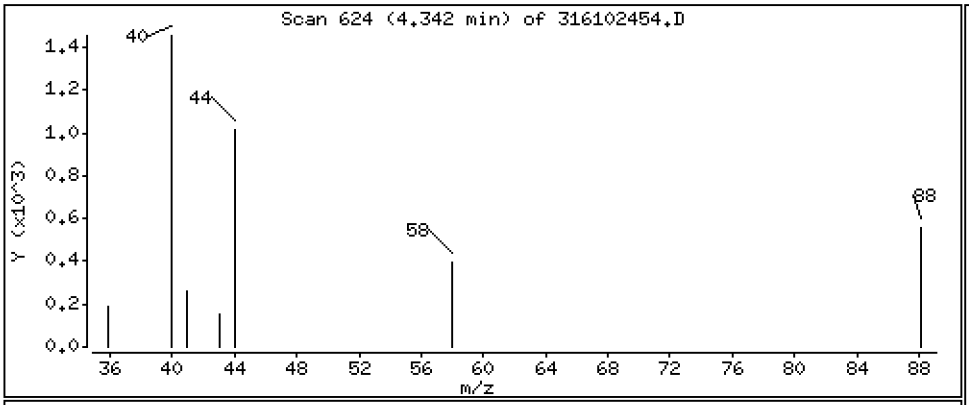
Client ID: Instrument: ms03.i

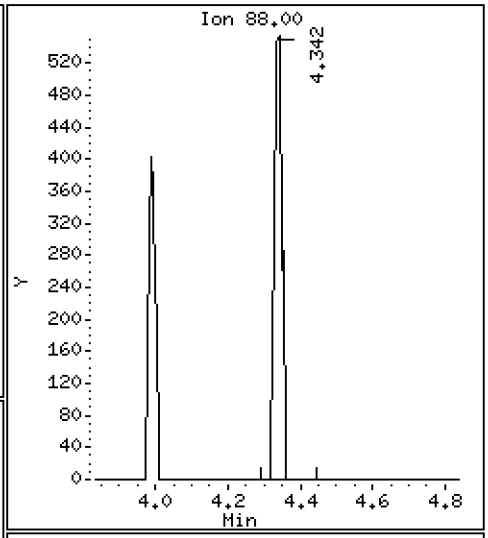
Sample Info: 1234;;1;1;1;;;

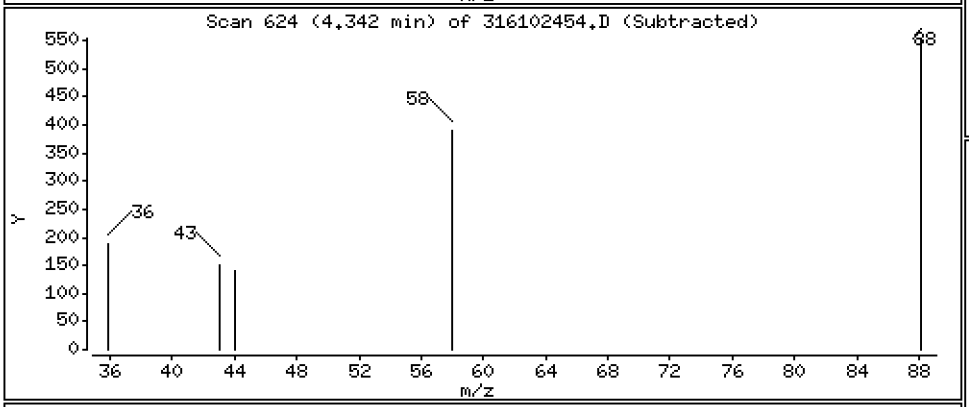
Purge Volume: 5.0 Operator: CJG

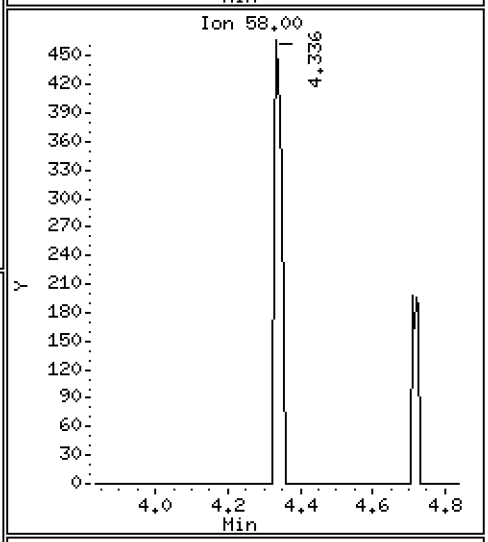
Column phase: DB-VRX Column diameter: 0.25

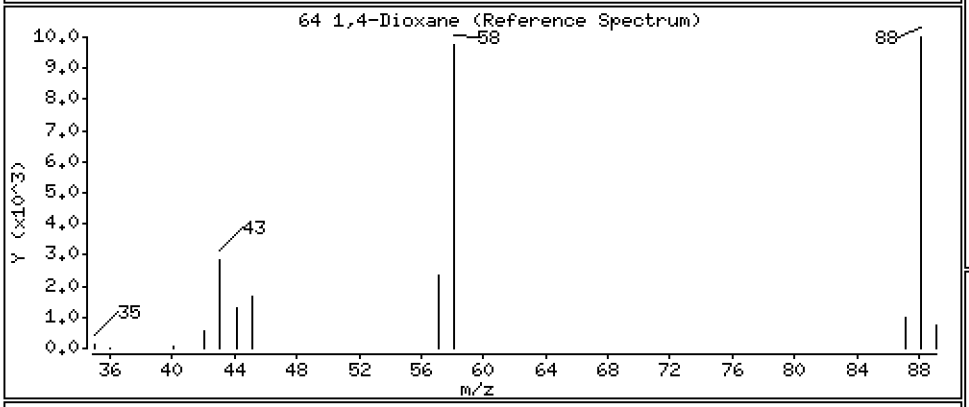
64 1,4-Dioxane Concentration: 21.8040 ug/L

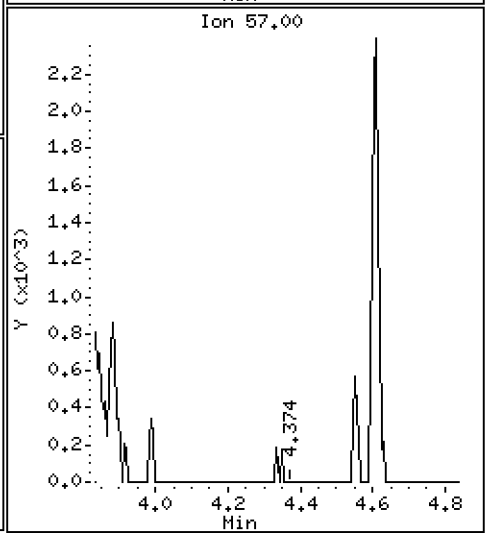


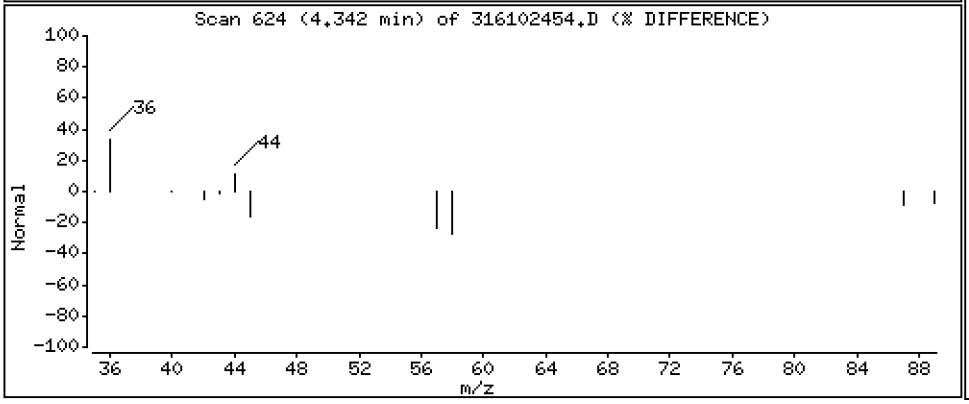












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 70

Date : 24-OCT-2016 23:46

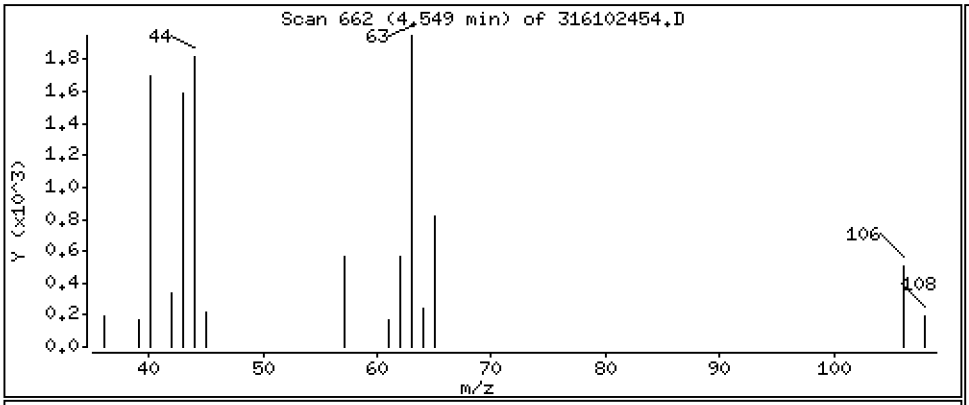
Client ID: Instrument: ms03.i

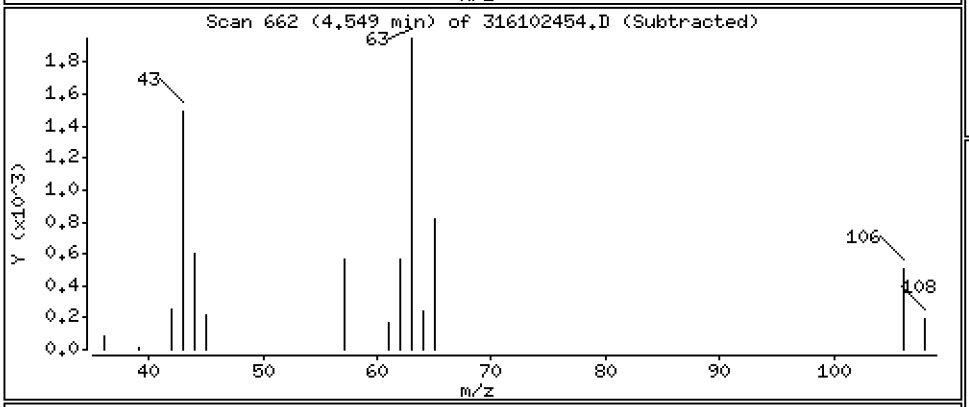
Sample Info: 1234;;1;1;1;;;

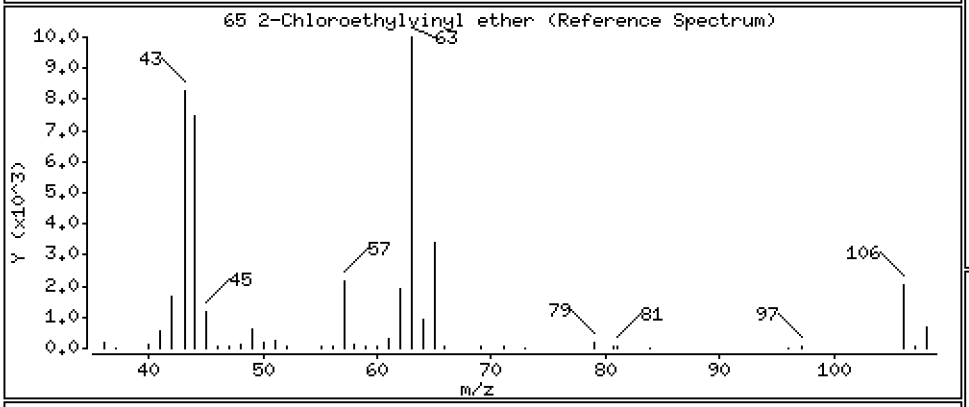
Purge Volume: 5.0 Operator: CJG

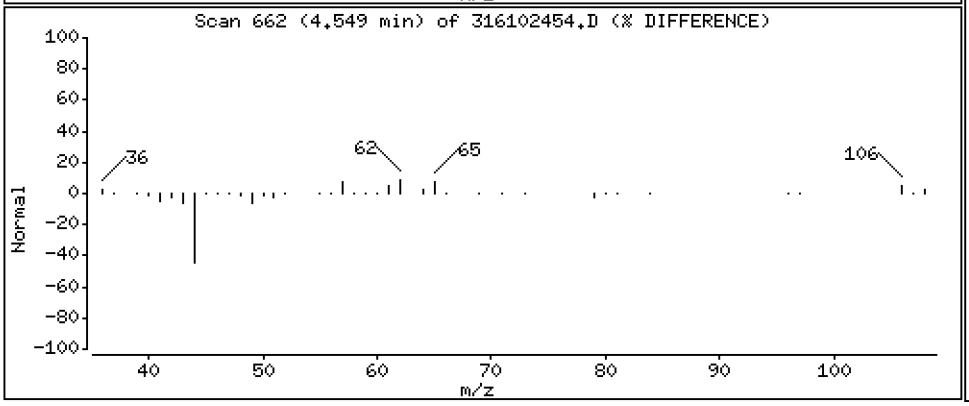
Column phase: DB-VRX Column diameter: 0.25

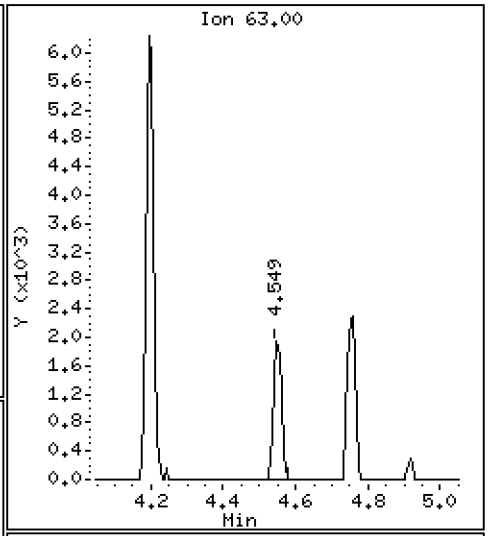
65 2-Chloroethylvinyl ether Concentration: 0.660755 ug/L

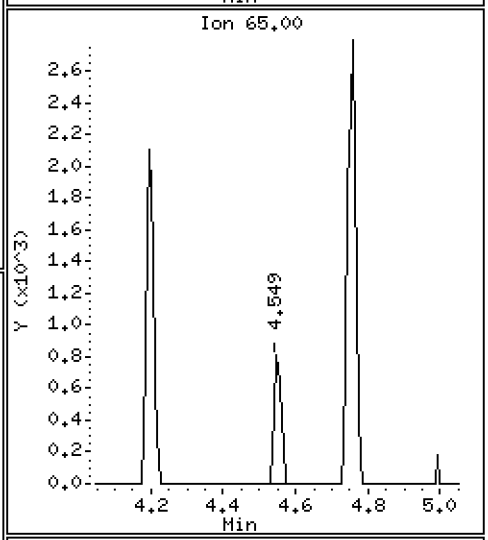


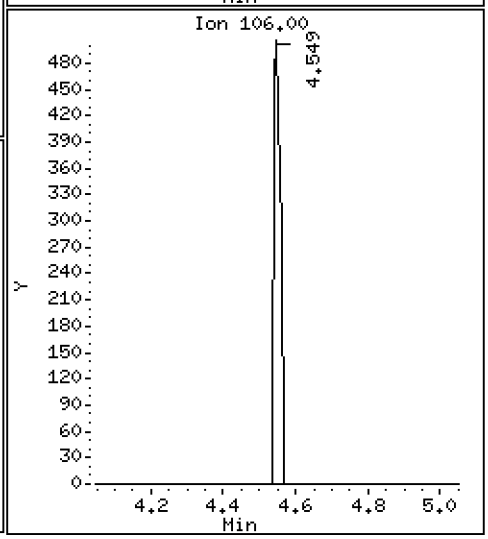












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 71

Date : 24-OCT-2016 23:46

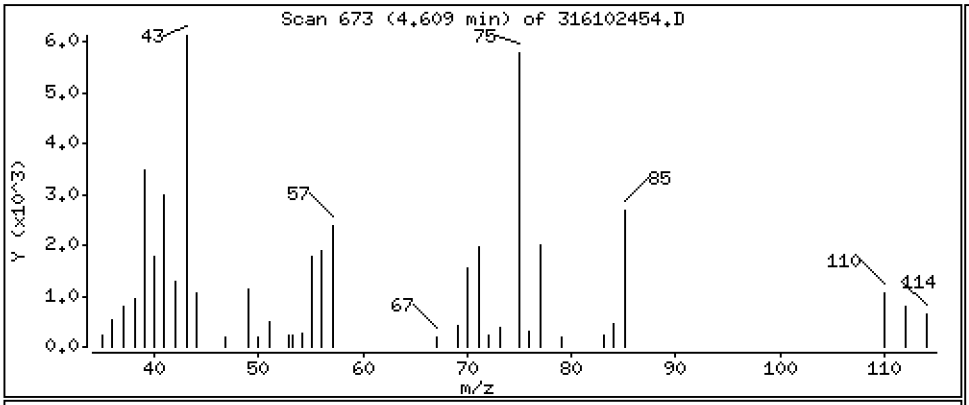
Client ID: Instrument: ms03.i

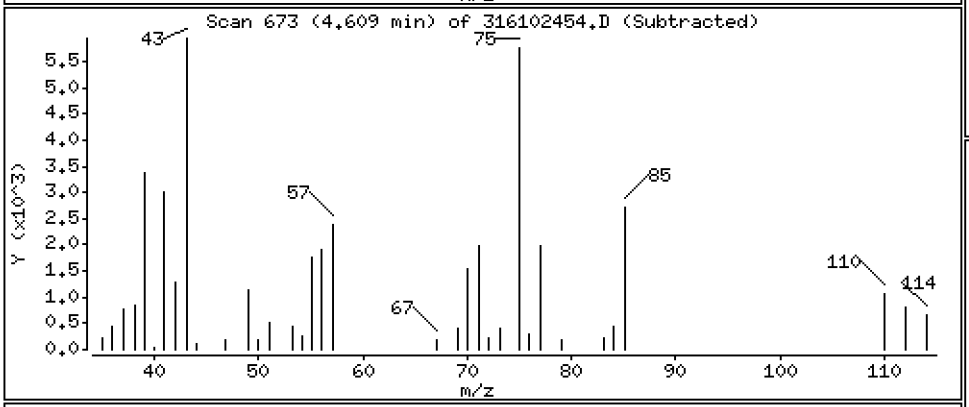
Sample Info: 1234;;1;1;1;;;

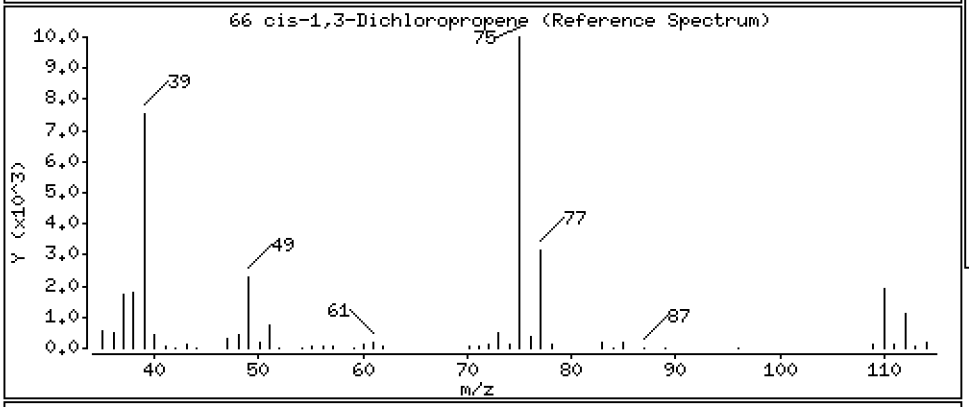
Purge Volume: 5.0 Operator: CJG

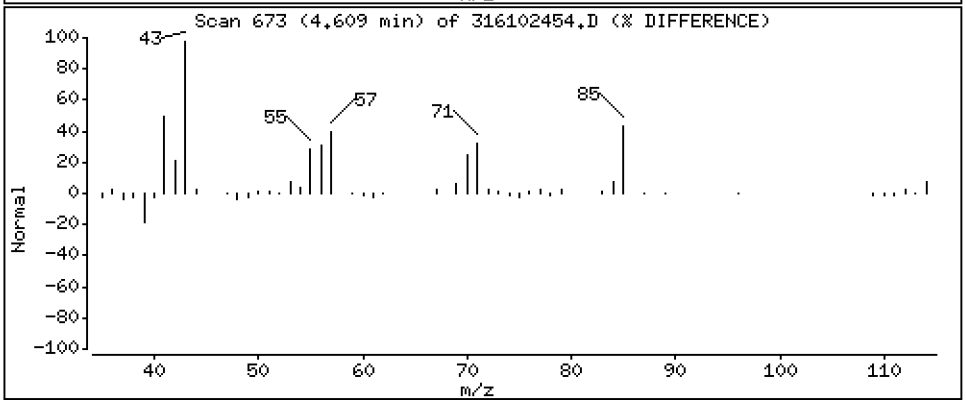
Column phase: DB-VRX Column diameter: 0.25

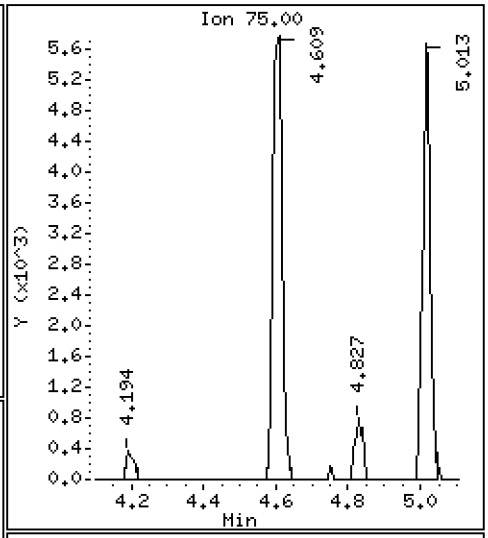
66 cis-1,3-Dichloropropene Concentration: 0.802804 ug/L

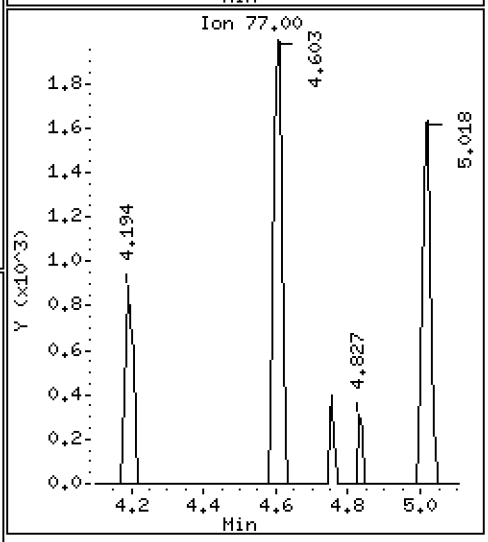












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 72

Date : 24-OCT-2016 23:46

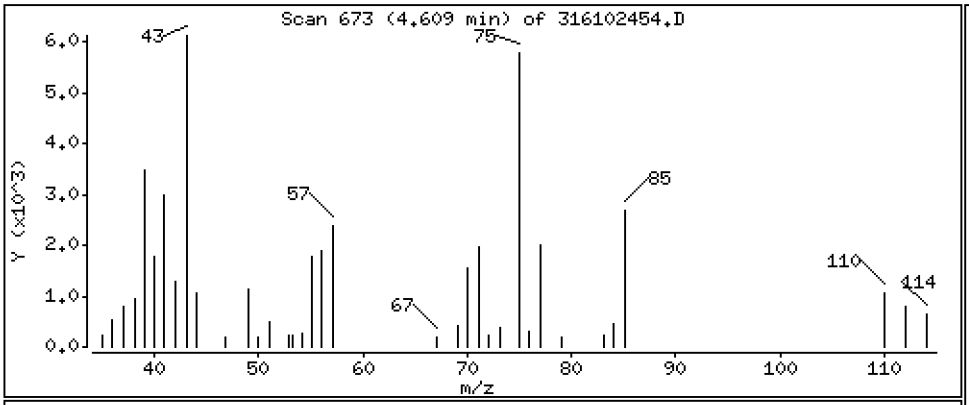
Client ID: Instrument: ms03.i

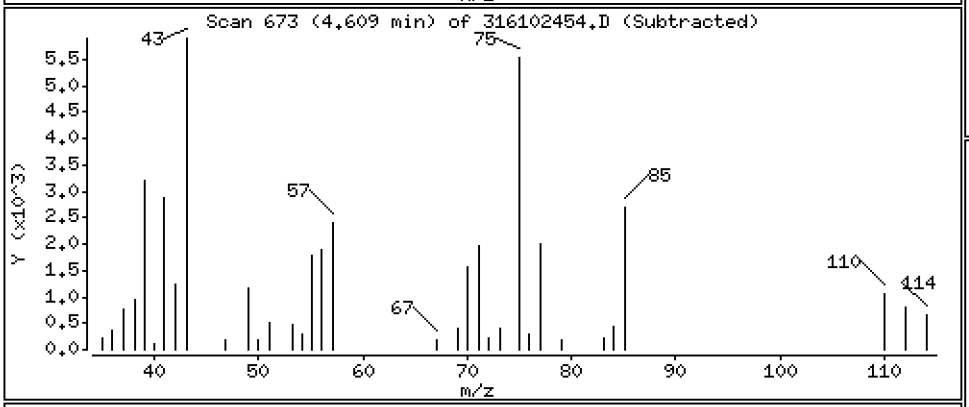
Sample Info: 1234;;1;1;1;;;

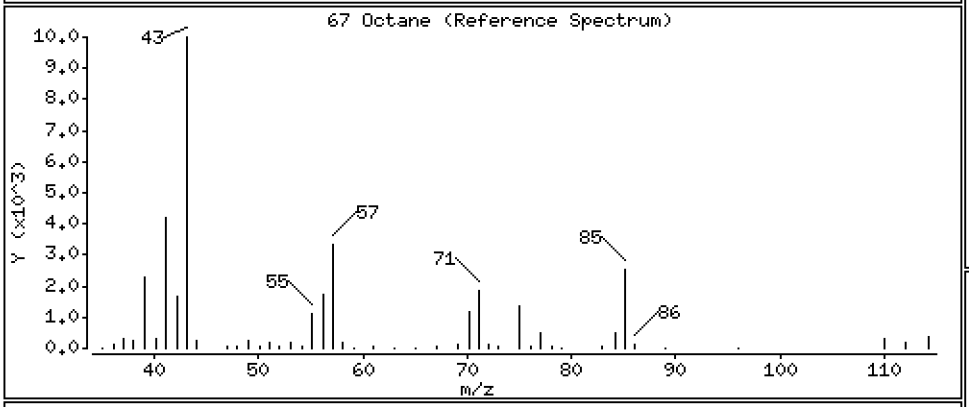
Purge Volume: 5.0 Operator: CJG

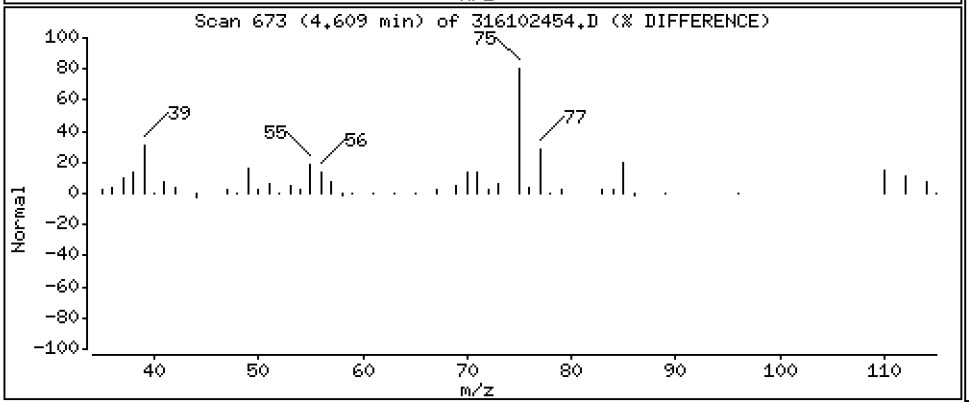
Column phase: DB-VRX Column diameter: 0.25

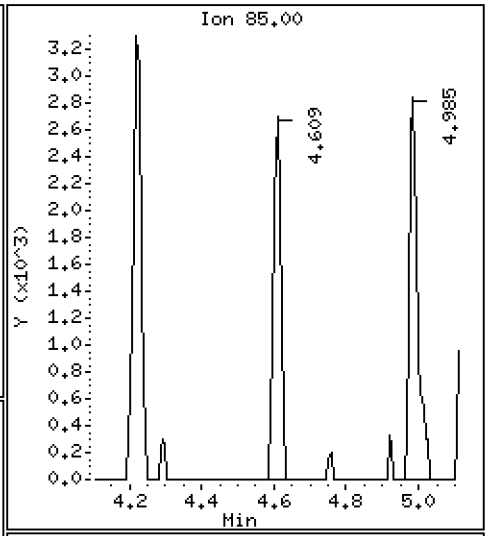
67 Octane Concentration: 1.03334 ug/L

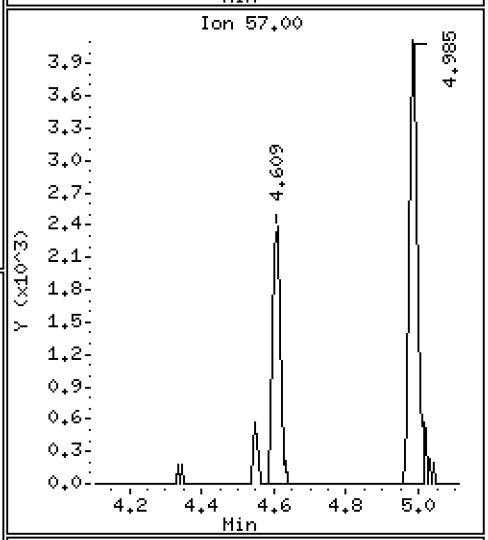


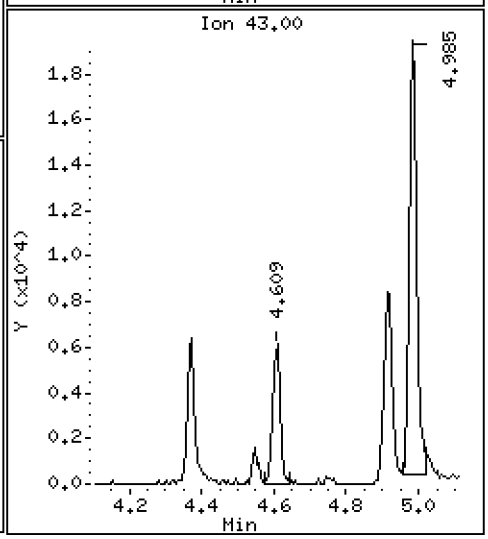












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 73

Date : 24-OCT-2016 23:46

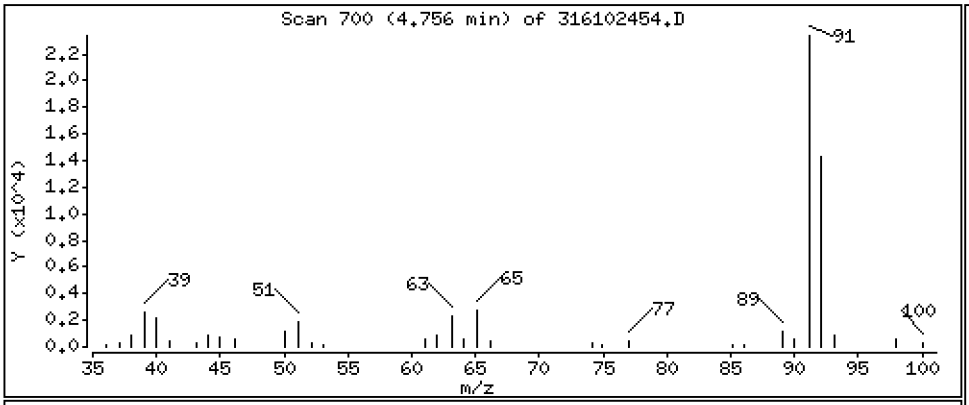
Client ID: Instrument: ms03.i

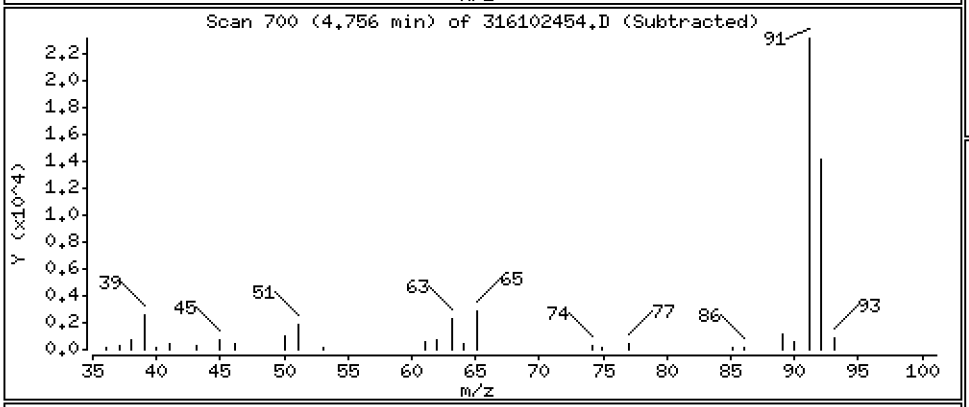
Sample Info: 1234;;1;1;1;;;

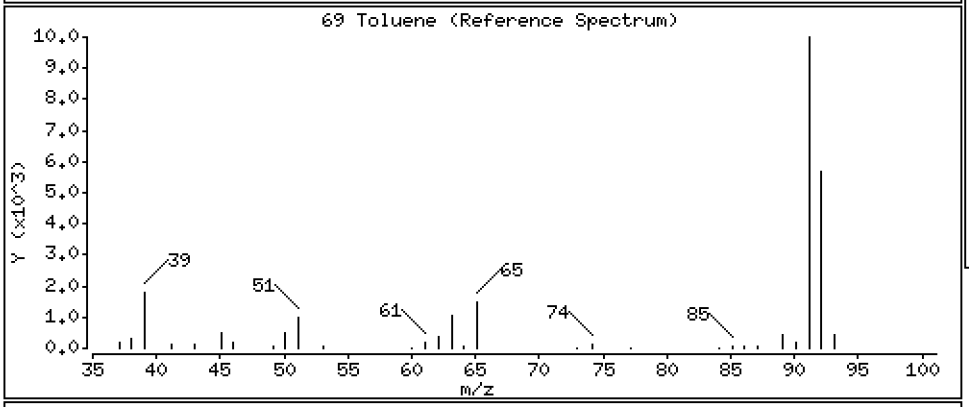
Purge Volume: 5.0 Operator: CJG

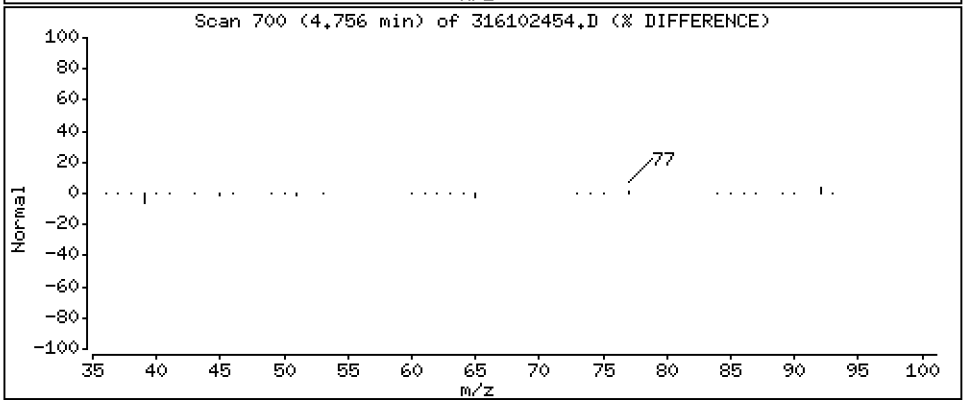
Column phase: DB-VRX Column diameter: 0.25

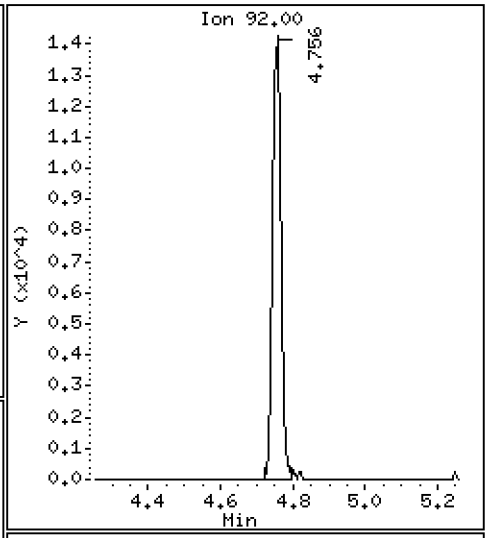
69 Toluene Concentration: 1.10036 ug/L

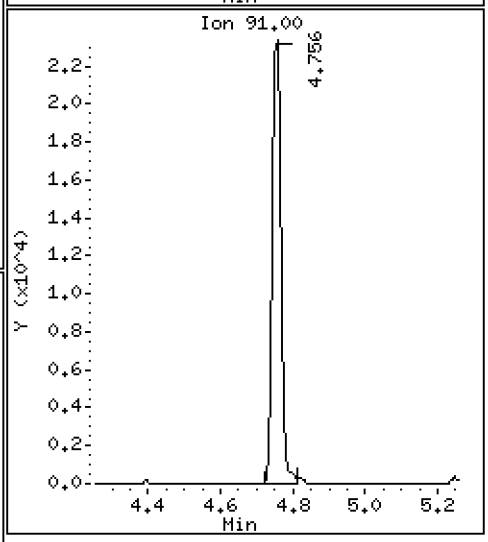












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 74

Date : 24-OCT-2016 23:46

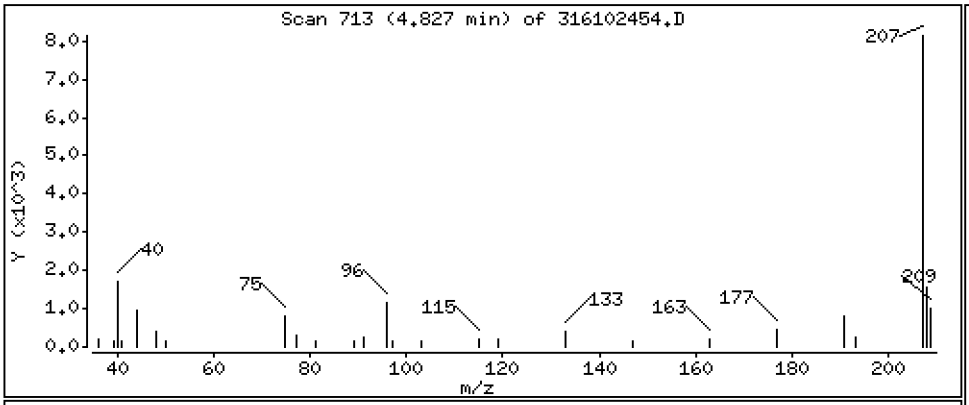
Client ID: Instrument: ms03.i

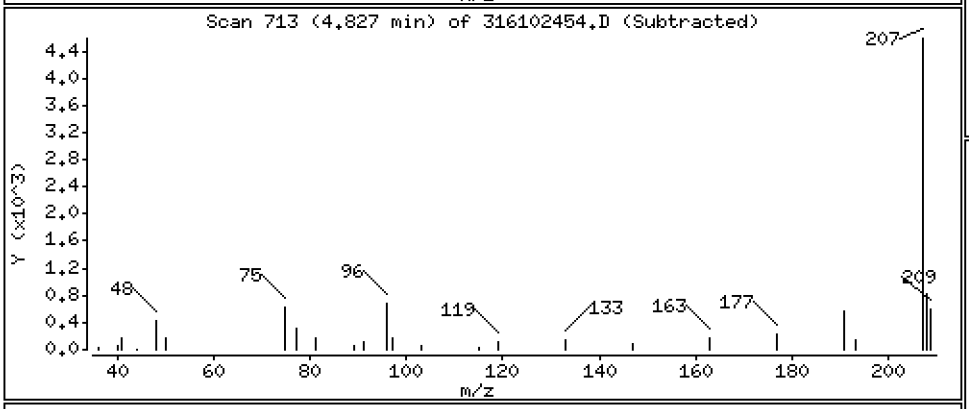
Sample Info: 1234;;1;1;1;;;

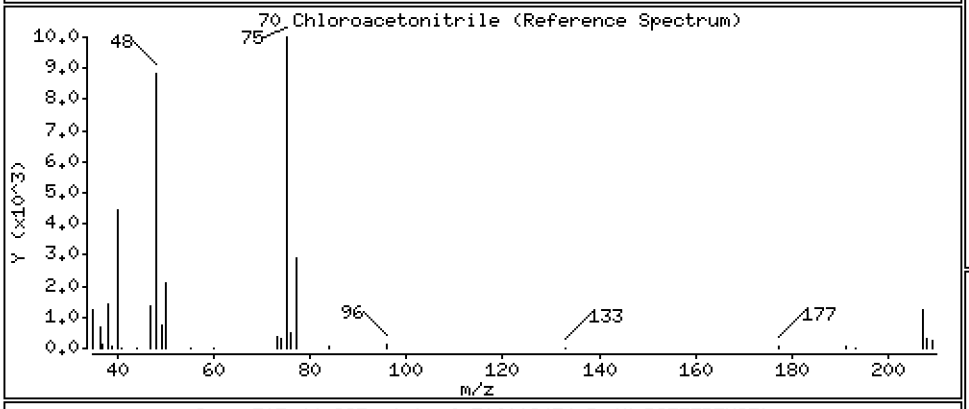
Purge Volume: 5.0 Operator: CJG

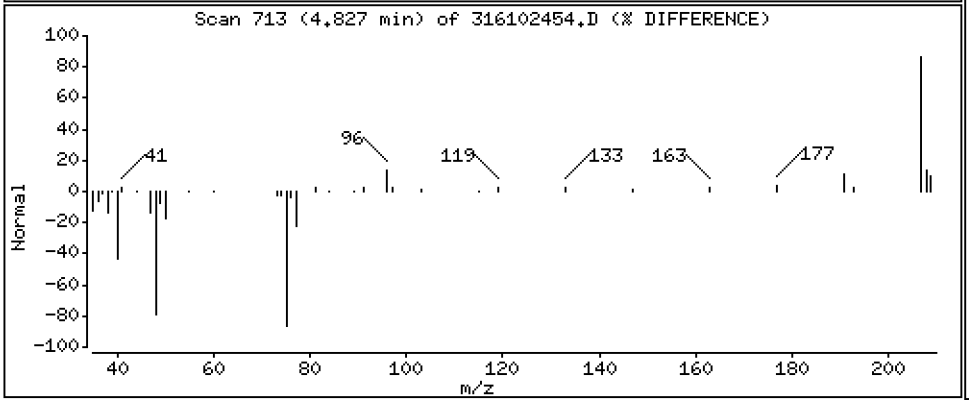
Column phase: DB-VRX Column diameter: 0.25

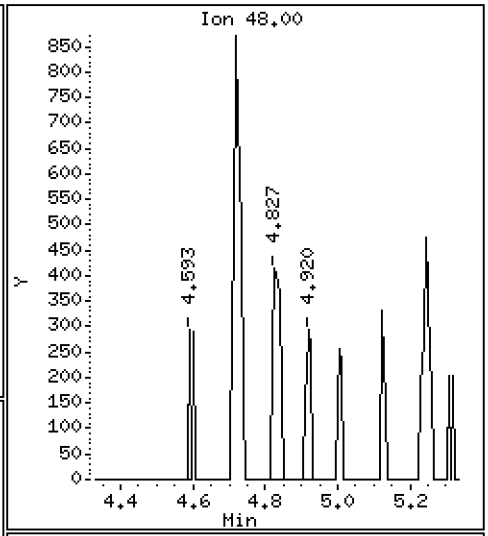
70 Chloroacetonitrile Concentration: 3.06203 ug/L

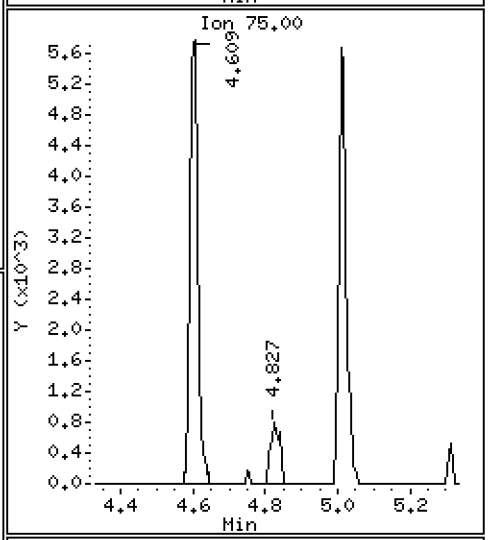


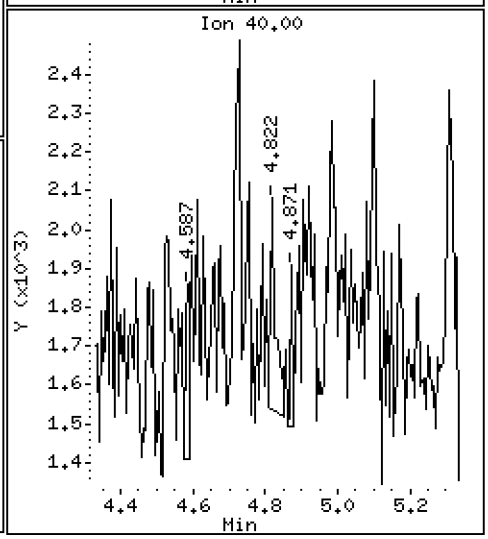












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 75

Date : 24-OCT-2016 23:46

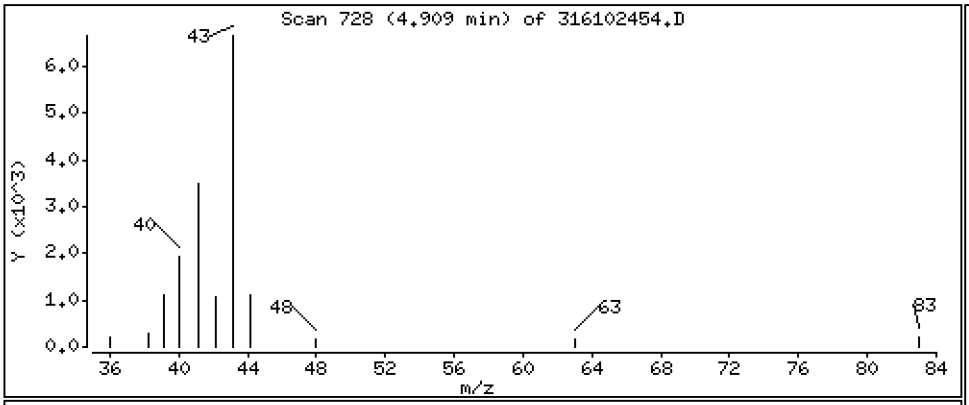
Client ID: Instrument: ms03.i

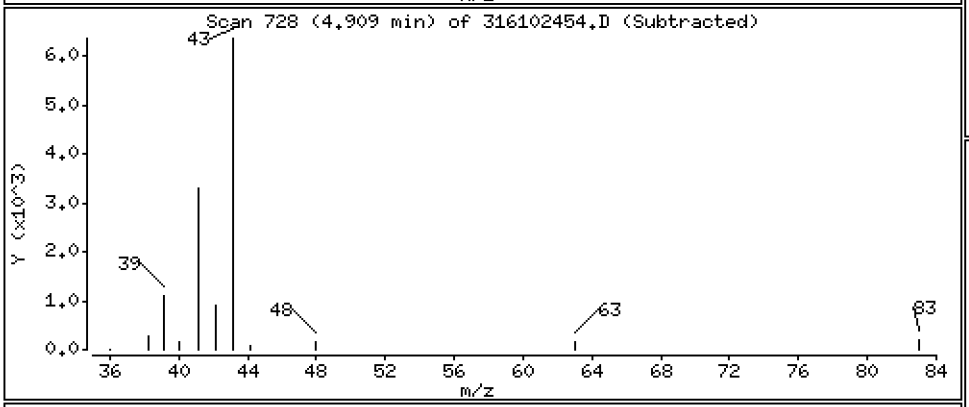
Sample Info: 1234;;1;1;1;;;

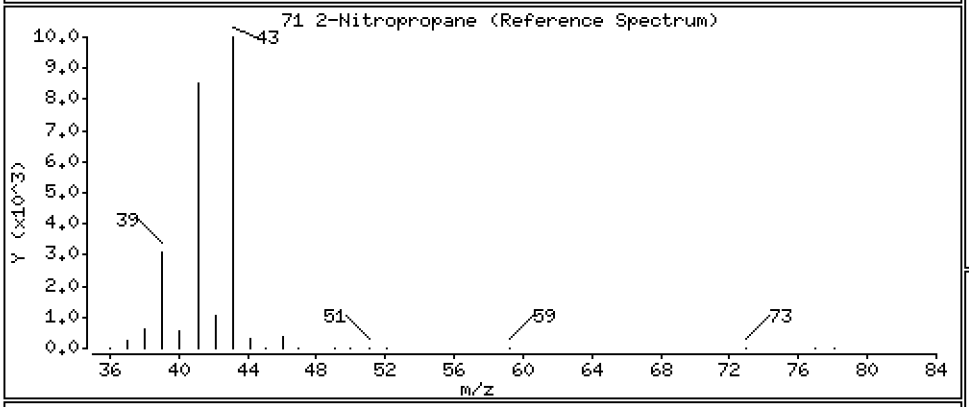
Purge Volume: 5.0 Operator: CJG

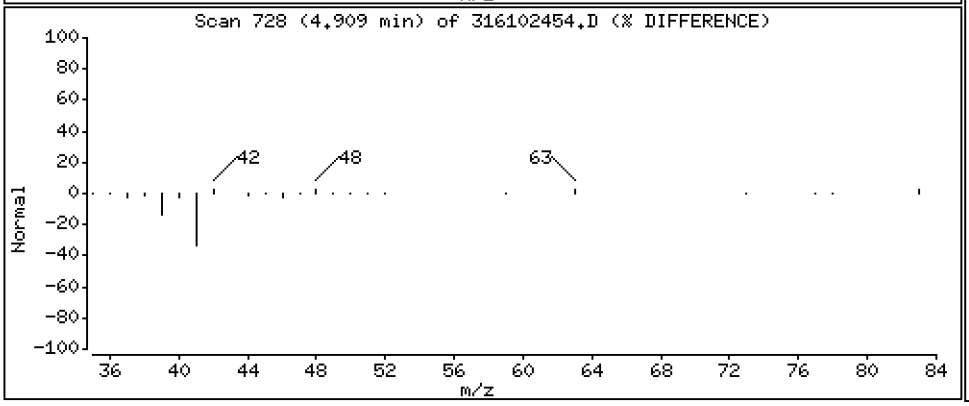
Column phase: DB-VRX Column diameter: 0.25

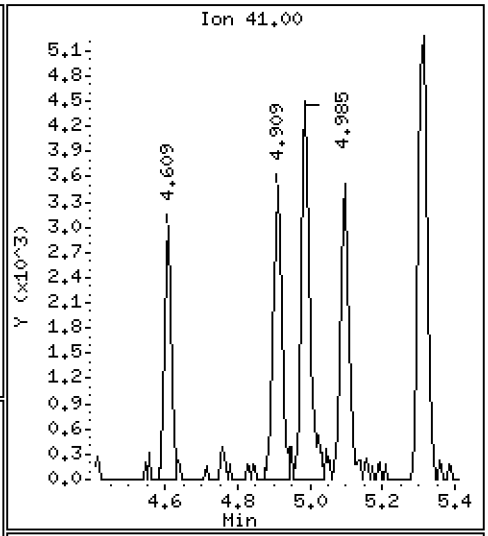
71 2-Nitropropane Concentration: 3.96633 ug/L

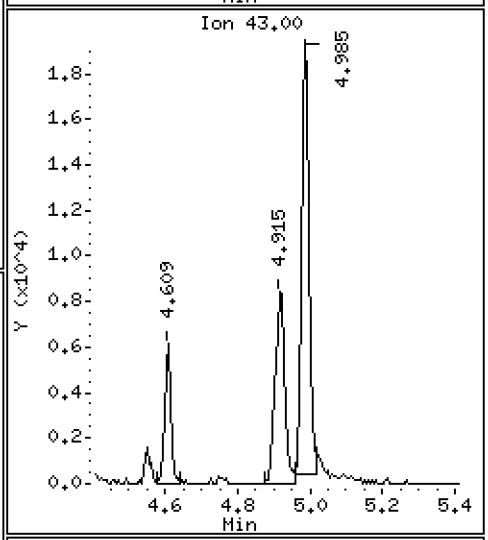


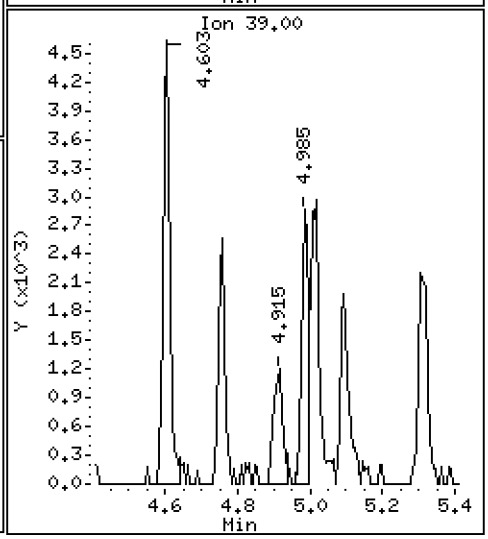












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 76

Date : 24-OCT-2016 23:46

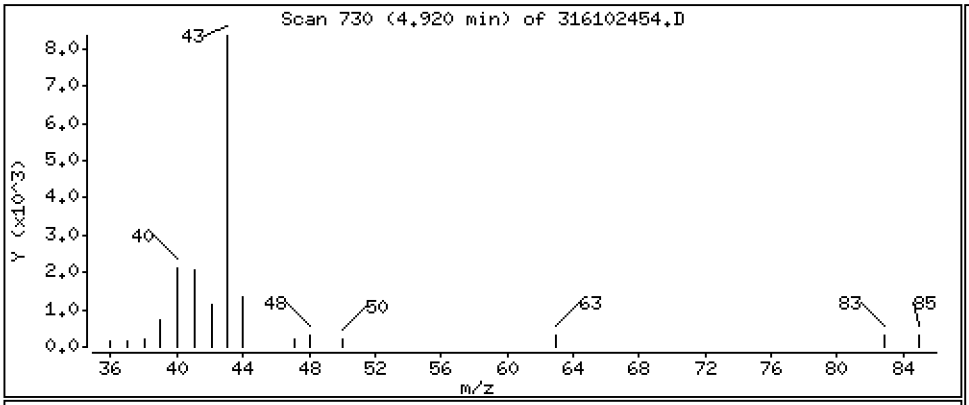
Client ID: Instrument: ms03.i

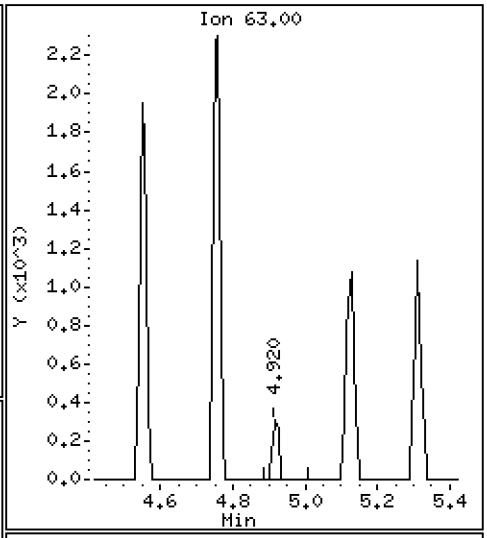
Sample Info: 1234;;1;1;1;;;

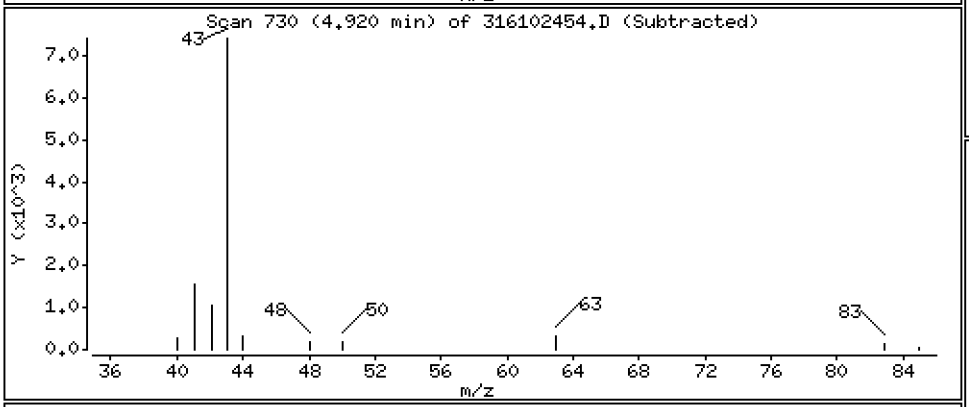
Purge Volume: 5.0 Operator: CJG

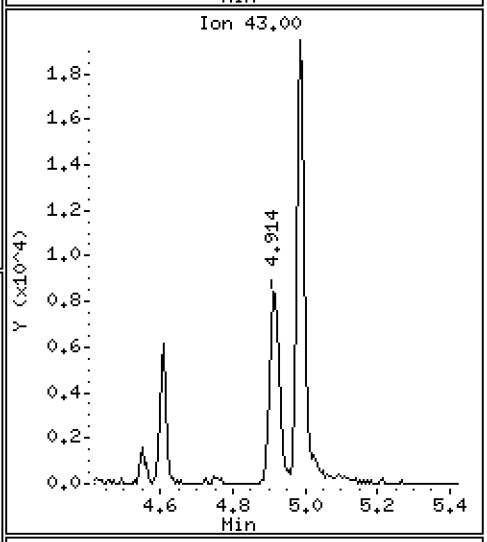
Column phase: DB-VRX Column diameter: 0.25

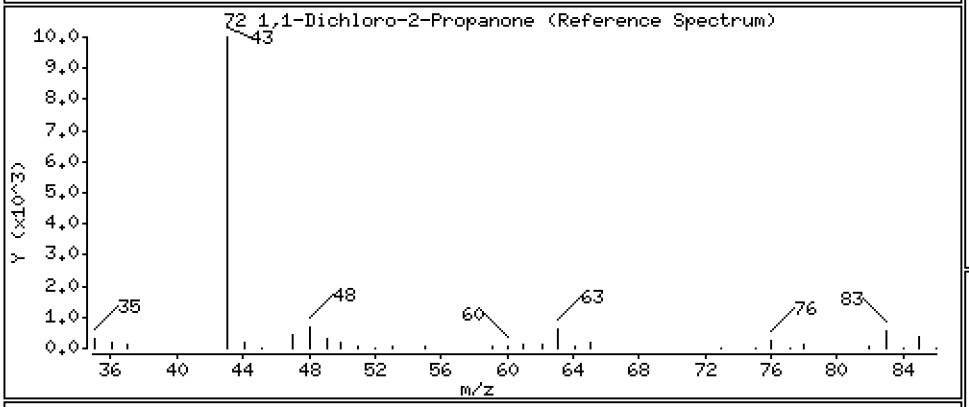
72 1,1-Dichloro-2-Propanone Concentration: 2.39886 ug/L

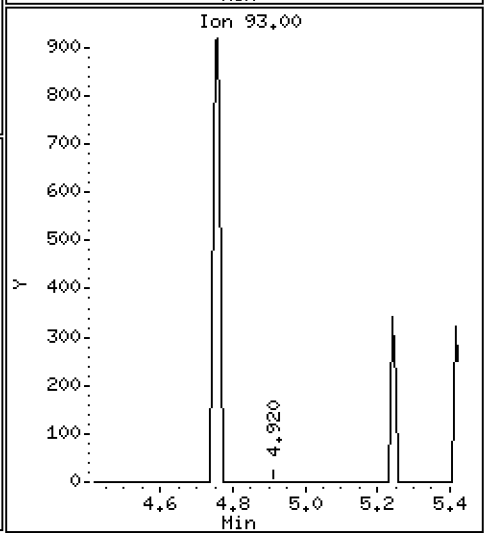


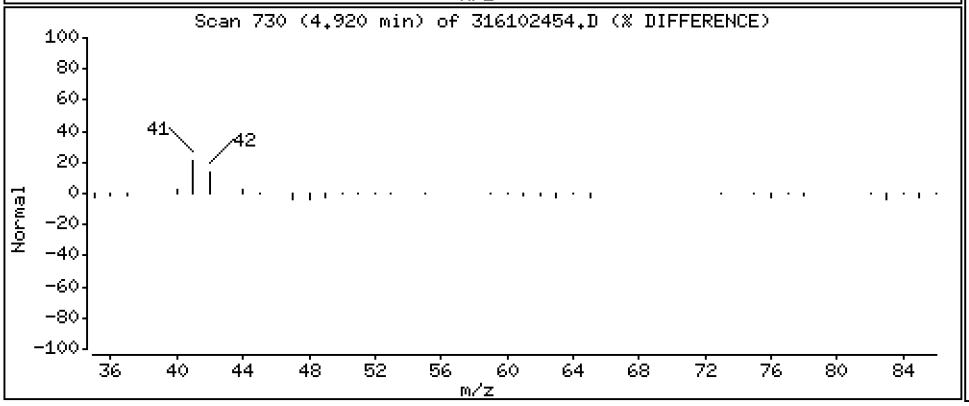












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 77

Date : 24-OCT-2016 23:46

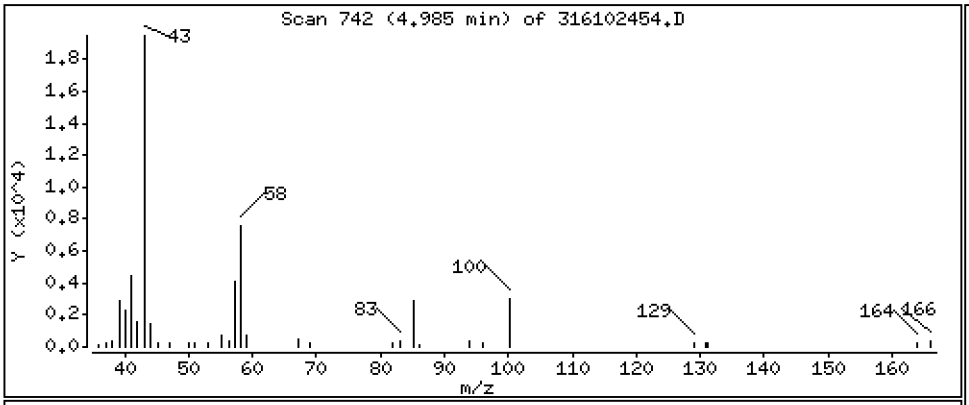
Client ID: Instrument: ms03.i

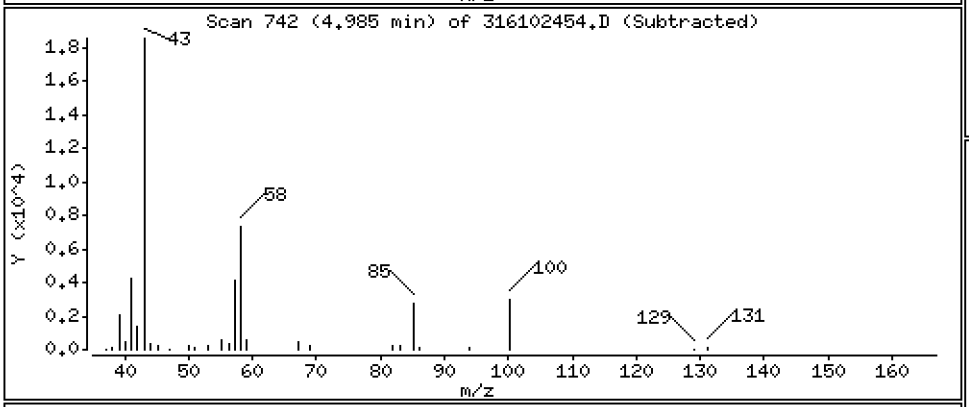
Sample Info: 1234;;1;1;1;;;

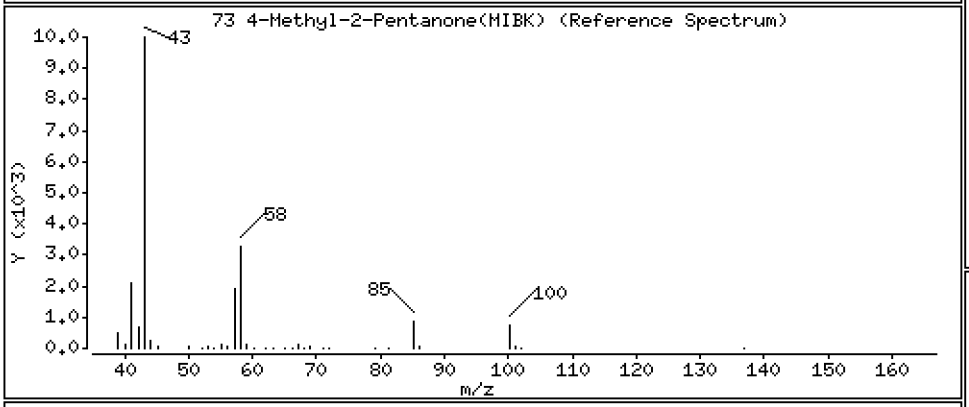
Purge Volume: 5.0 Operator: CJG

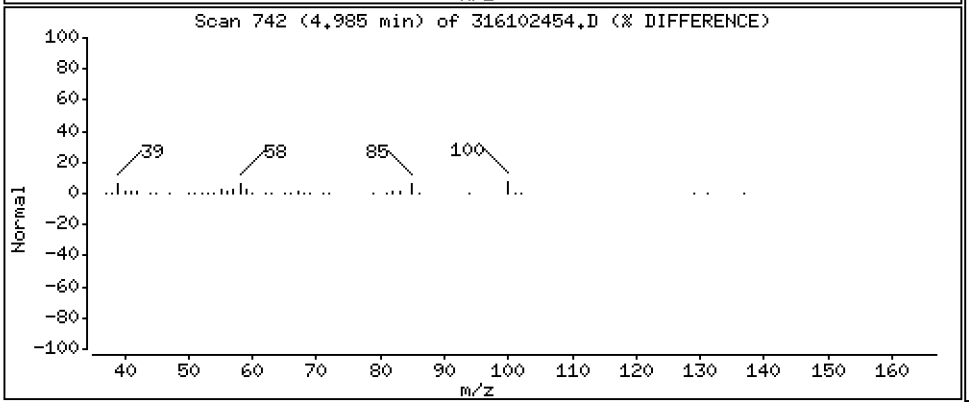
Column phase: DB-VRX Column diameter: 0.25

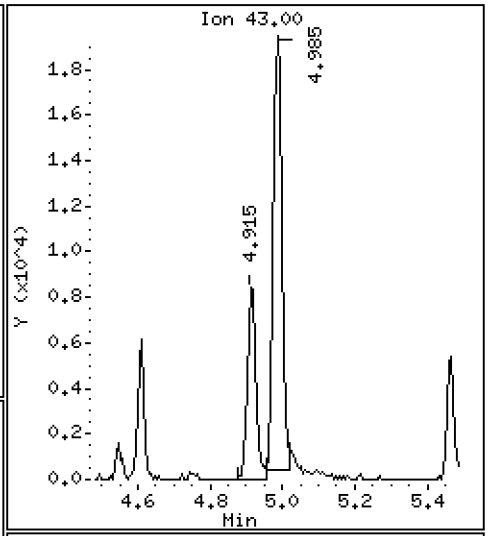
73 4-Methyl-2-Pentanone(MIBK) Concentration: 3.96142 ug/L

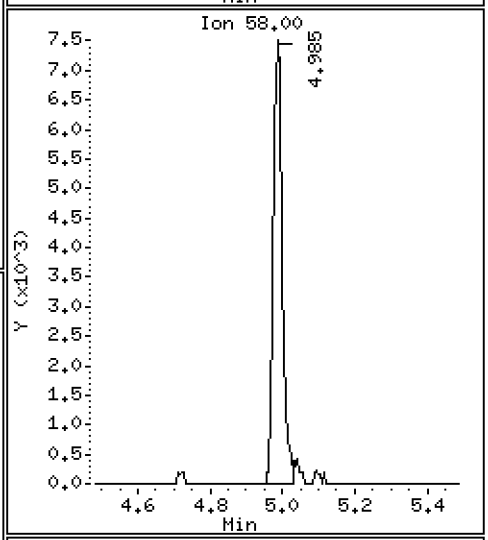


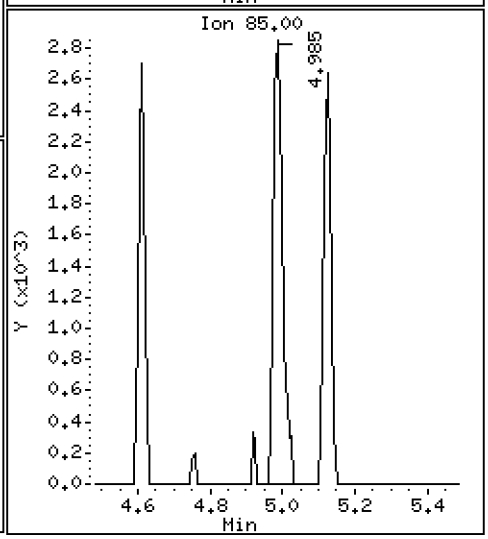












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 78

Date : 24-OCT-2016 23:46

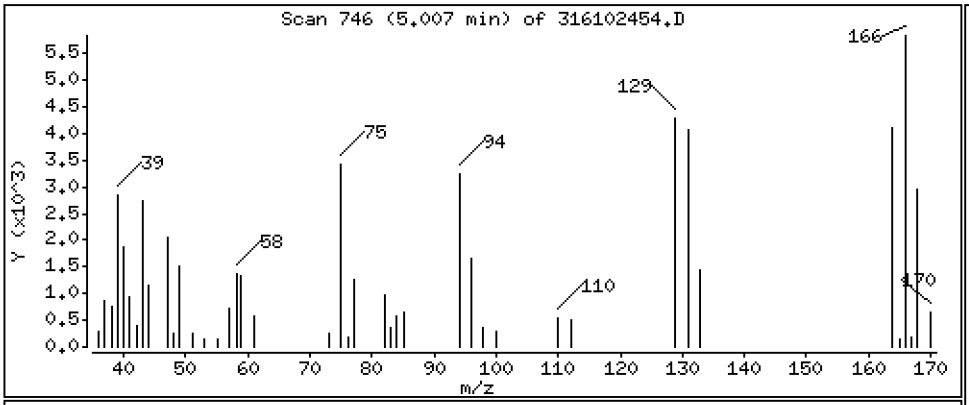
Client ID: Instrument: ms03.i

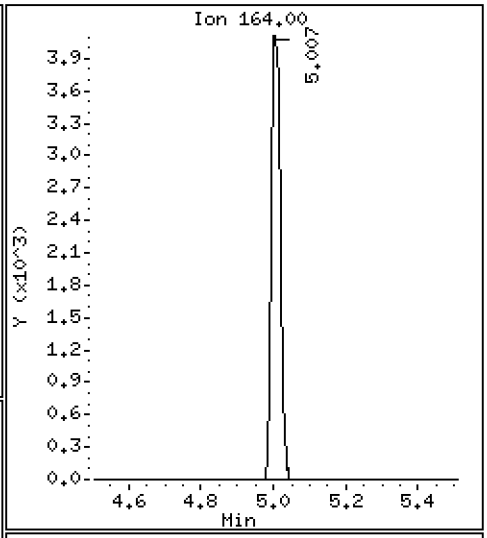
Sample Info: 1234;;1;1;1;;;

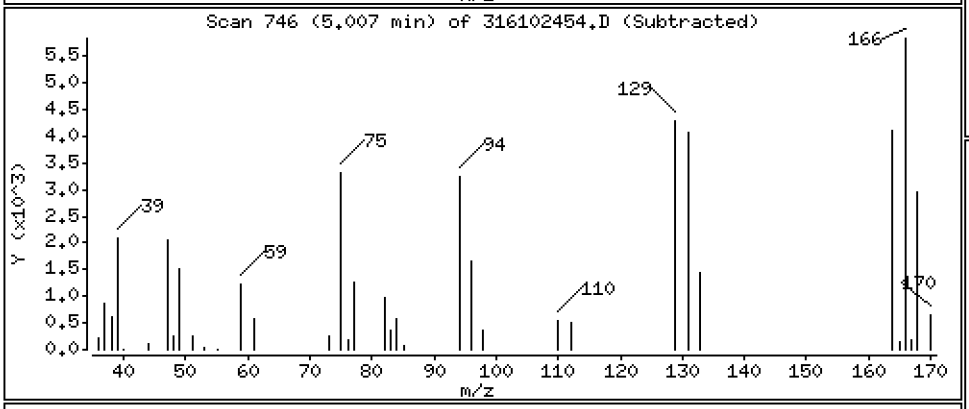
Purge Volume: 5.0 Operator: CJG

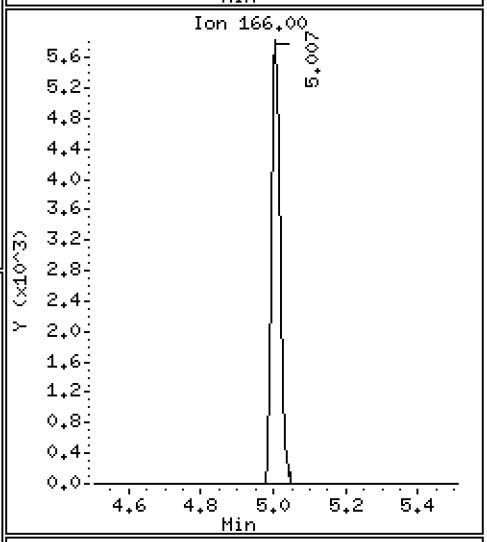
Column phase: DB-VRX Column diameter: 0.25

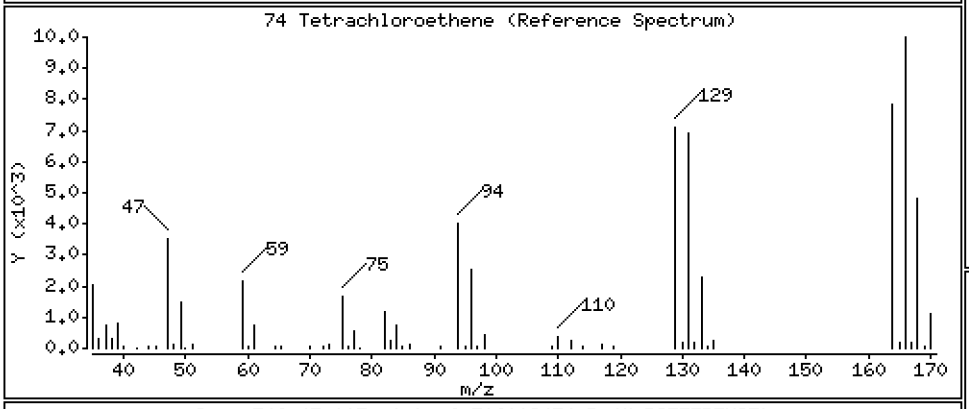
74 Tetrachloroethene Concentration: 1.37100 ug/L

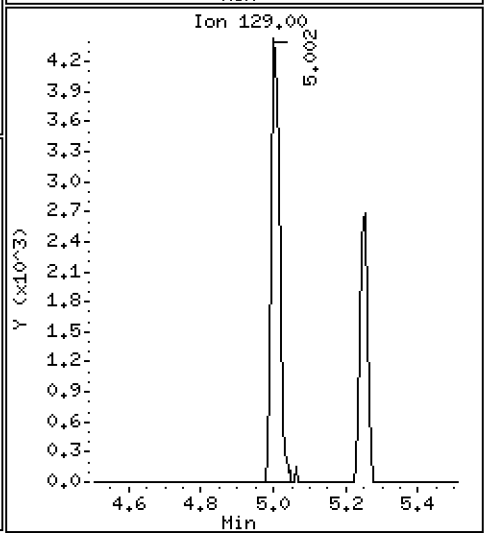


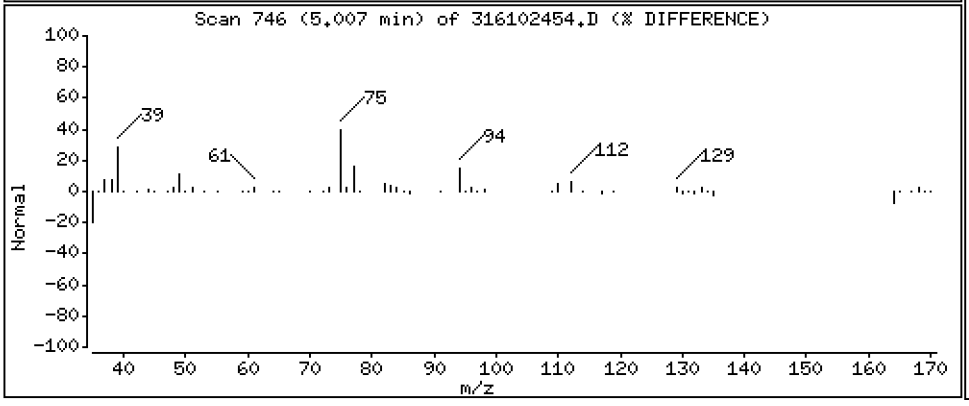












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 79

Date : 24-OCT-2016 23:46

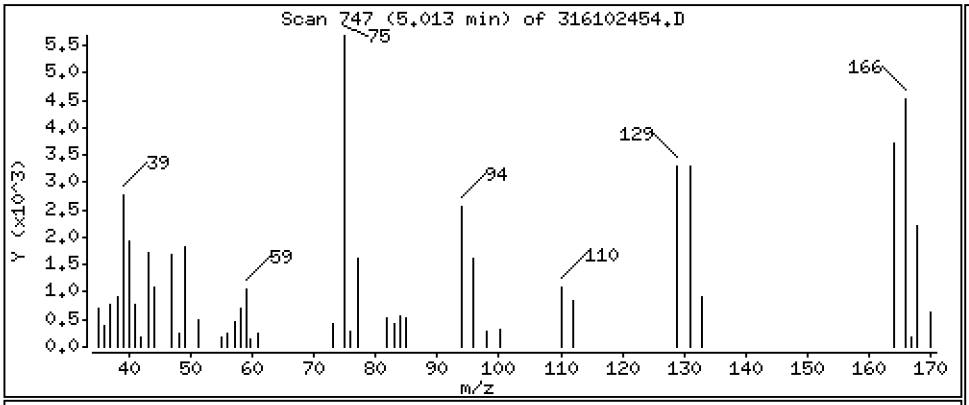
Client ID: Instrument: ms03.i

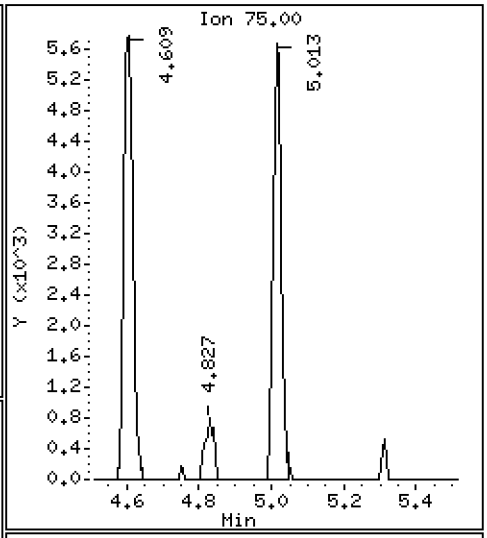
Sample Info: 1234;;1;1;1;;;

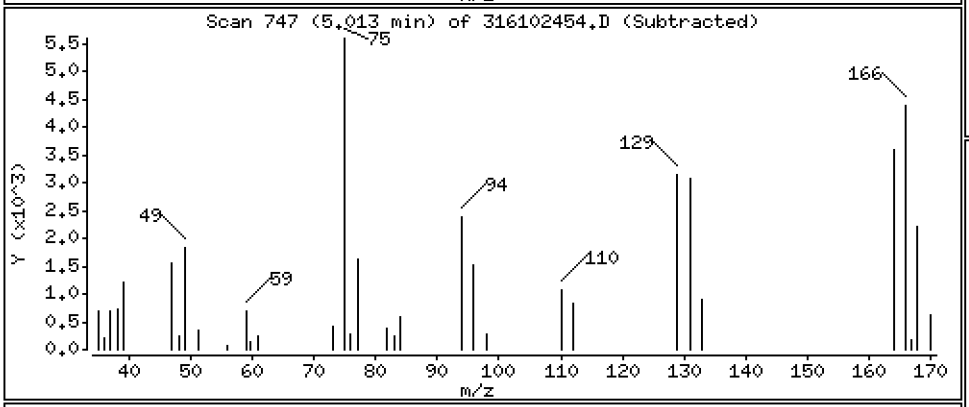
Purge Volume: 5.0 Operator: CJG

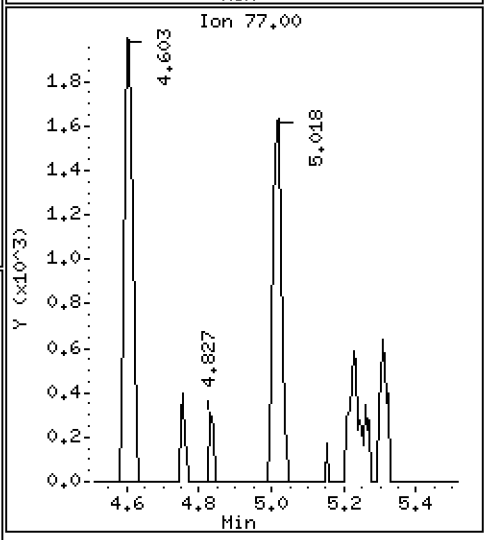
Column phase: DB-VRX Column diameter: 0.25

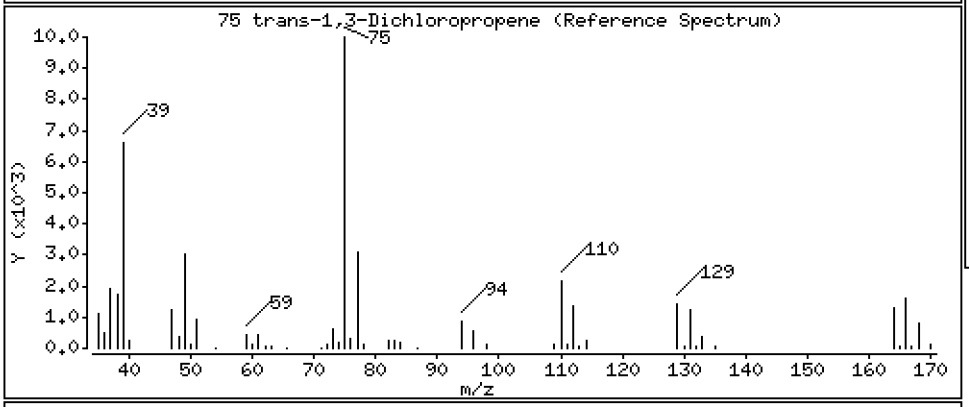
75 trans-1,3-Dichloropropene Concentration: 0.763050 ug/L

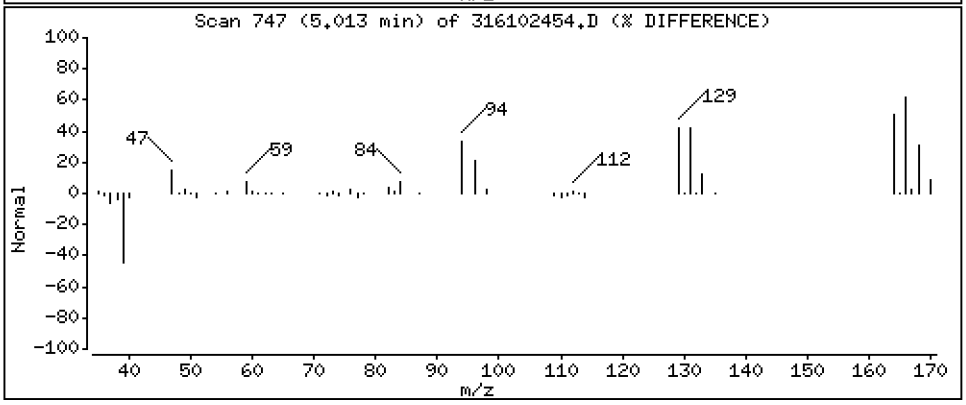












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 80

Date : 24-OCT-2016 23:46

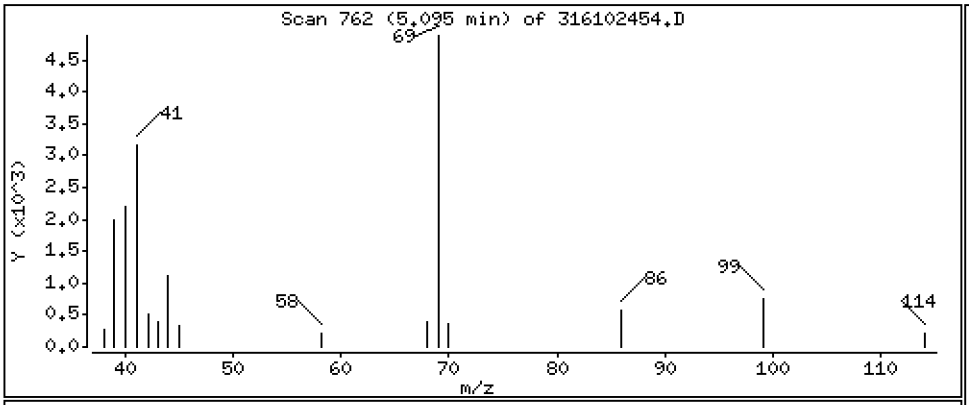
Client ID: Instrument: ms03.i

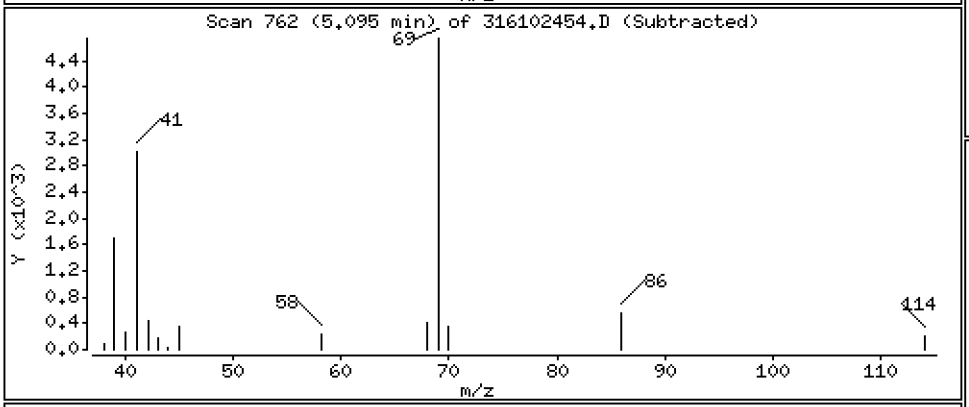
Sample Info: 1234;;1;1;1;;;

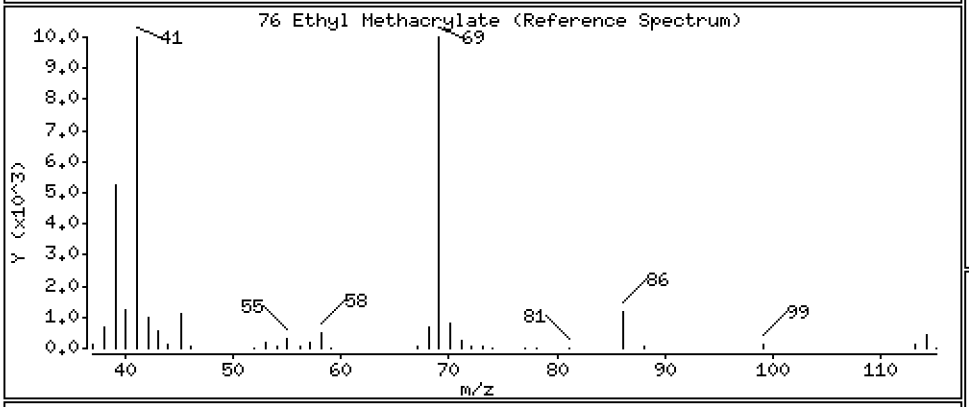
Purge Volume: 5.0 Operator: CJG

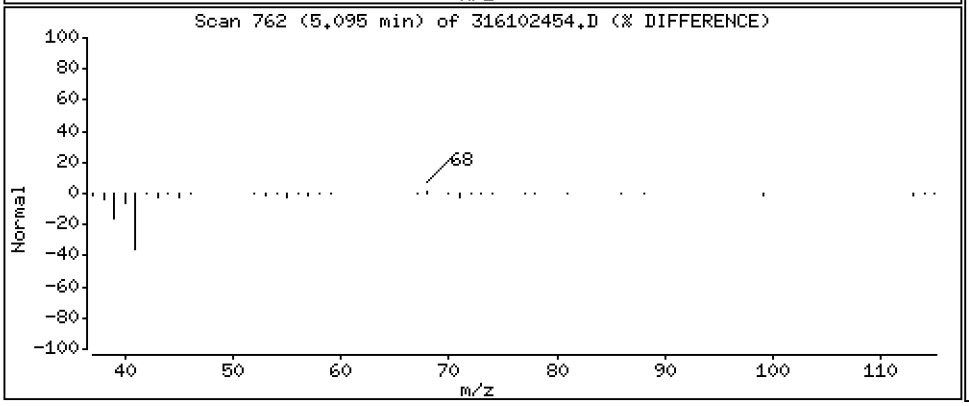
Column phase: DB-VRX Column diameter: 0.25

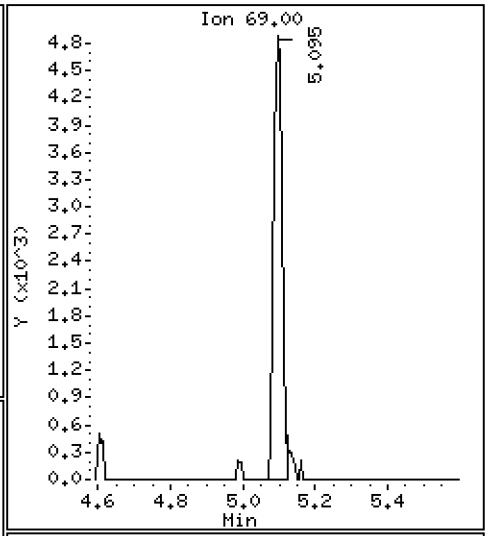
76 Ethyl Methacrylate Concentration: 0.748664 ug/L

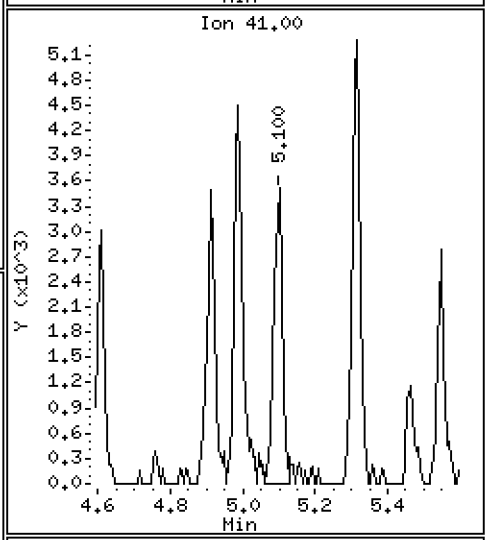


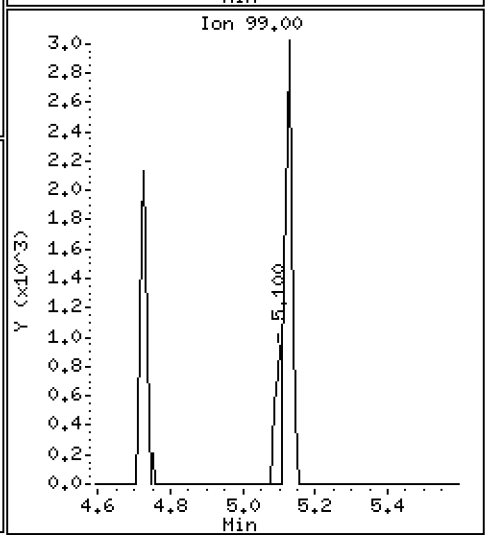












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 81

Date : 24-OCT-2016 23:46

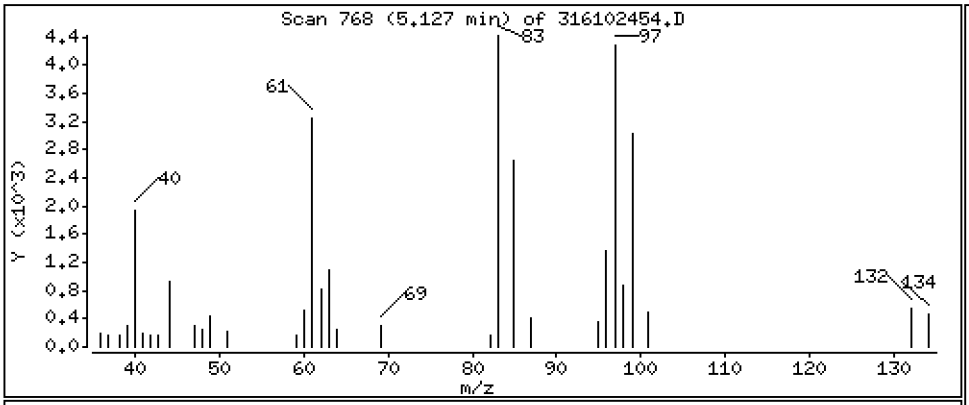
Client ID: Instrument: ms03.i

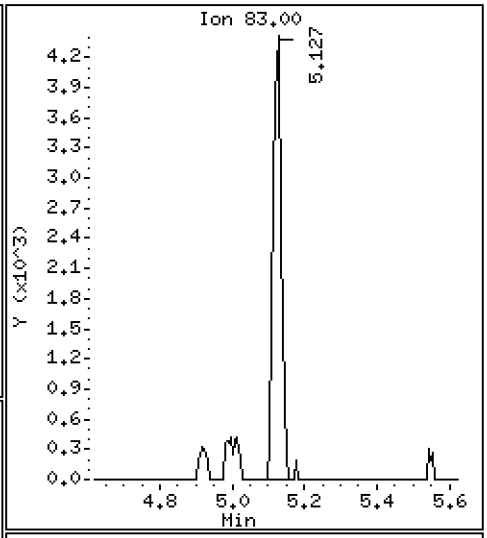
Sample Info: 1234;;1;1;1;;;

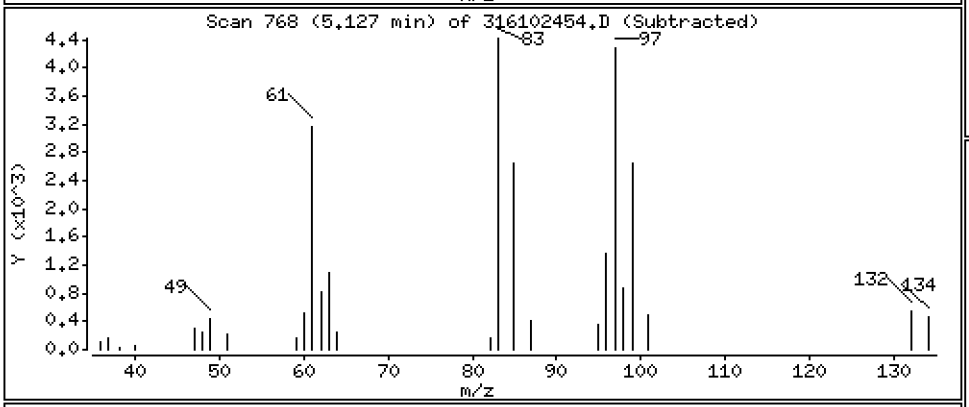
Purge Volume: 5.0 Operator: CJG

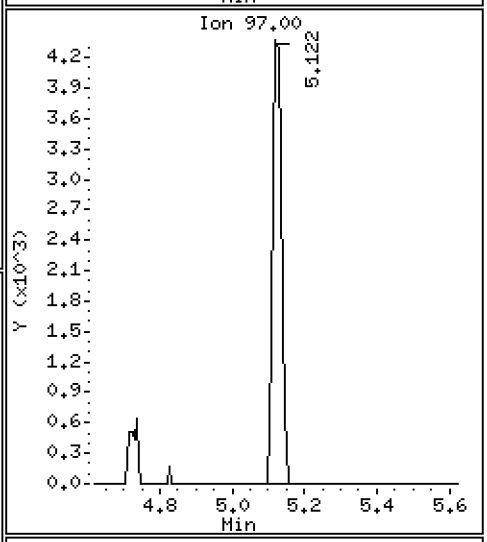
Column phase: DB-VRX Column diameter: 0.25

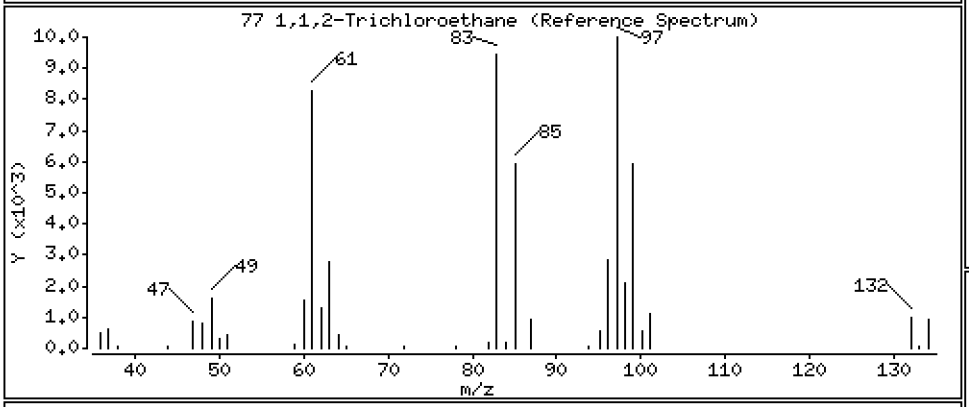
77 1,1,2-Trichloroethane Concentration: 1.12909 ug/L

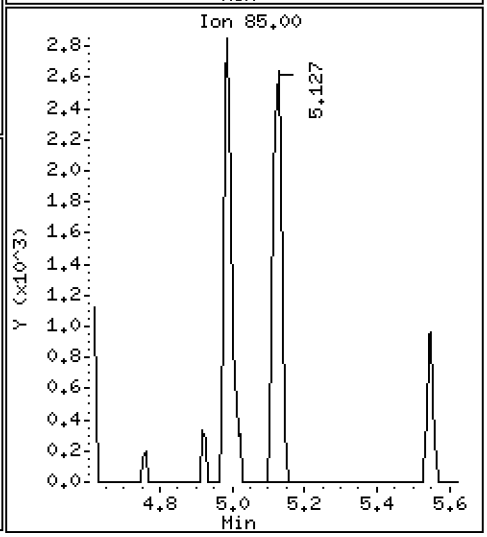


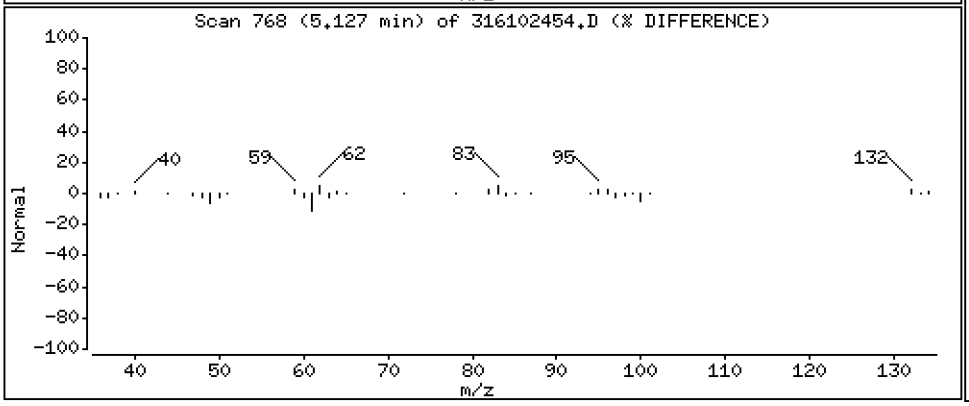












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 82

Date : 24-OCT-2016 23:46

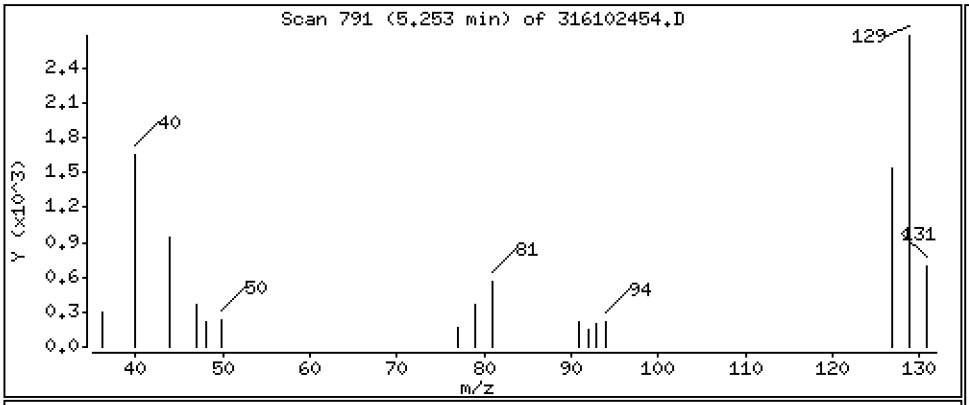
Client ID: Instrument: ms03.i

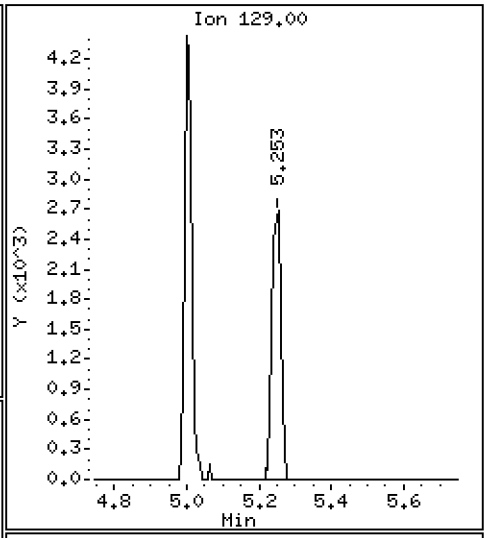
Sample Info: 1234;;1;1;1;;;

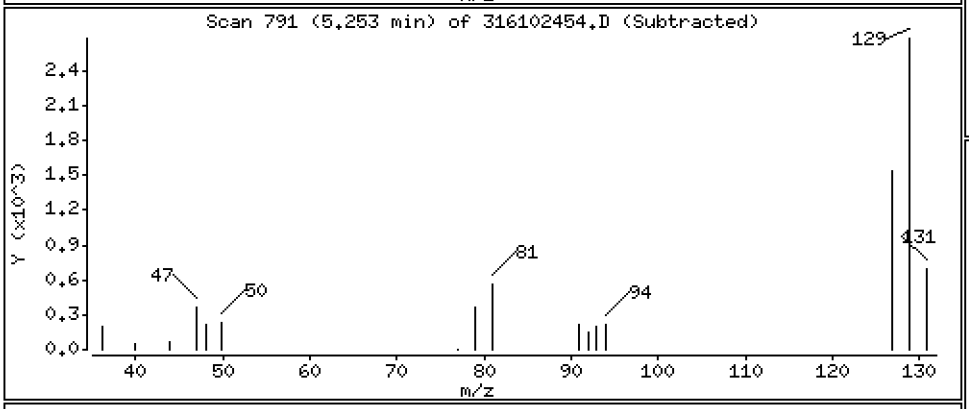
Purge Volume: 5.0 Operator: CJG

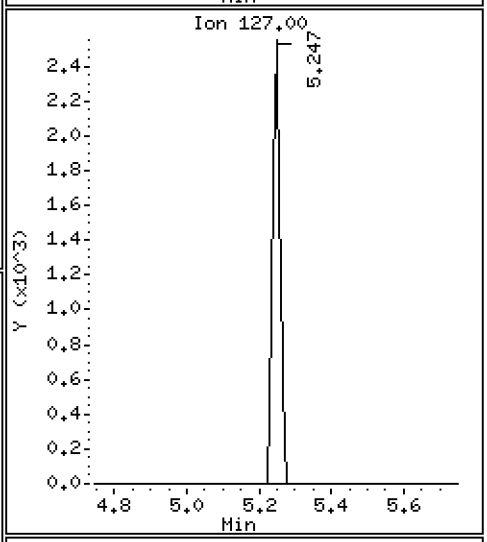
Column phase: DB-VRX Column diameter: 0.25

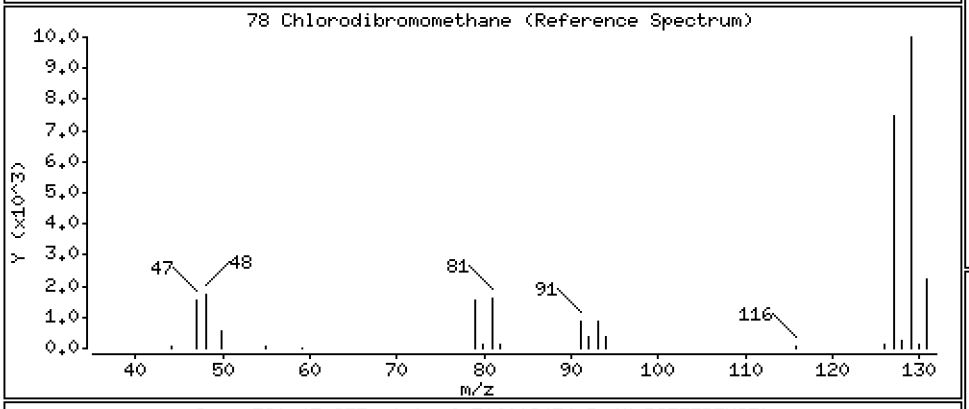
78 Chlorodibromomethane Concentration: 0.799283 ug/L

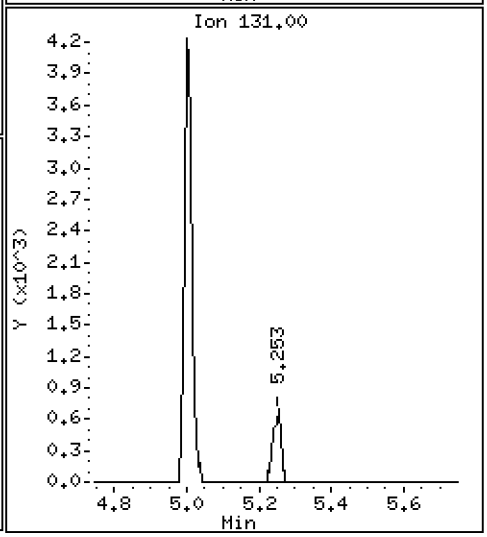


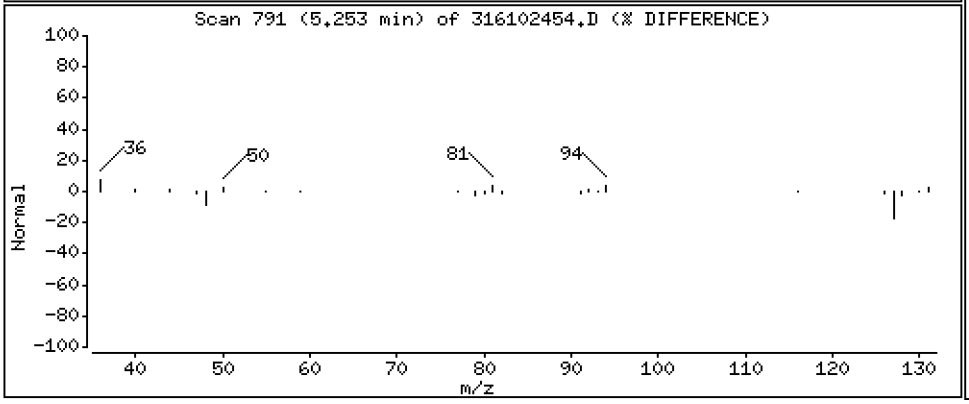












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 83

Date : 24-OCT-2016 23:46

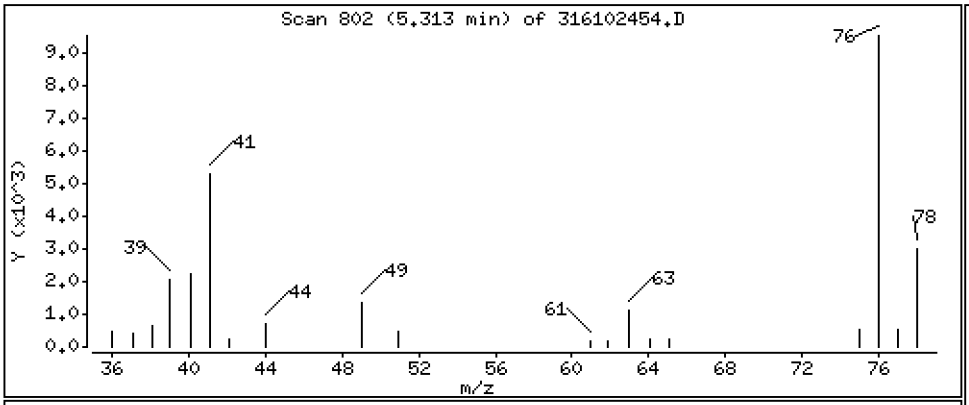
Client ID: Instrument: ms03.i

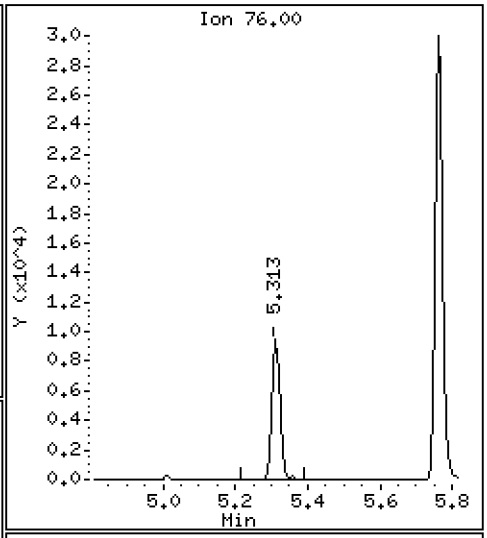
Sample Info: 1234;;1;1;1;;;

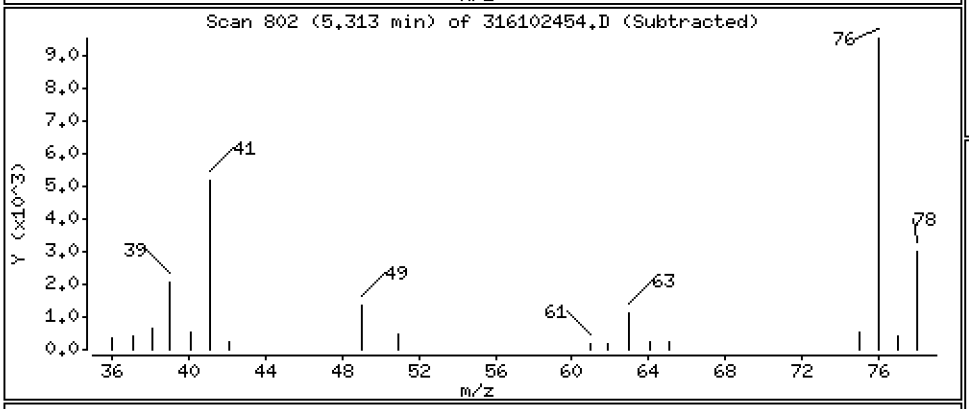
Purge Volume: 5.0 Operator: CJG

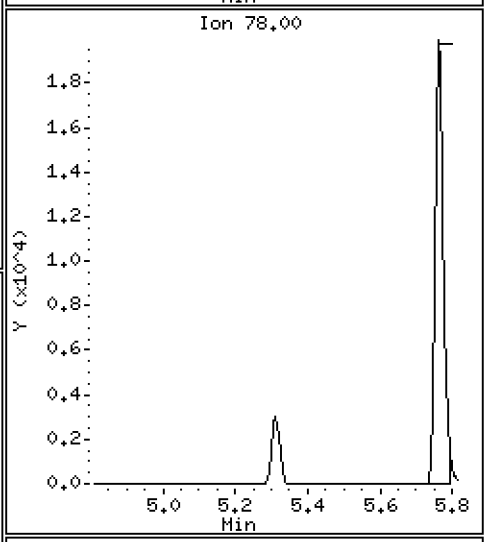
Column phase: DB-VRX Column diameter: 0.25

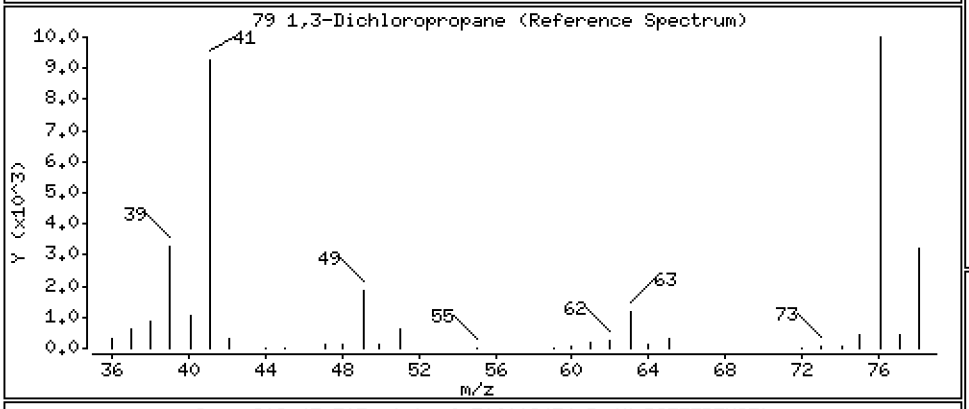
79 1,3-Dichloropropane Concentration: 1.12767 ug/L

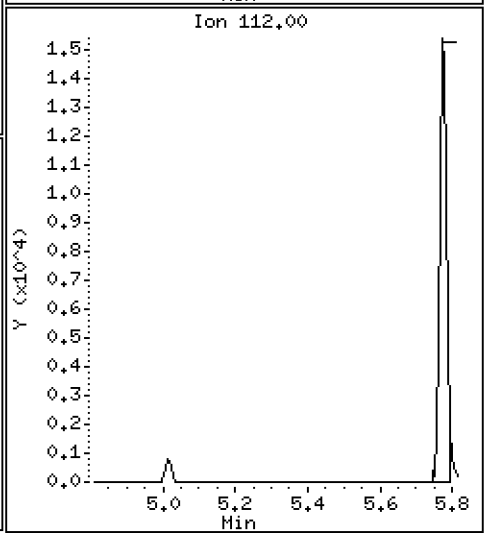


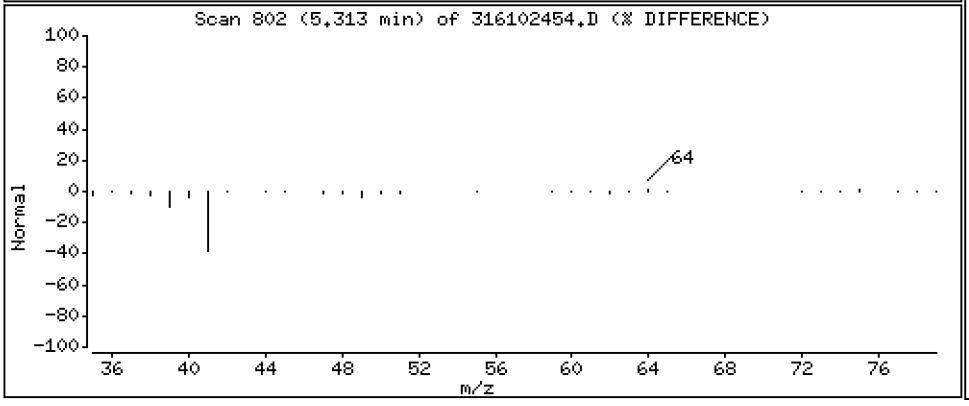












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 84

Date : 24-OCT-2016 23:46

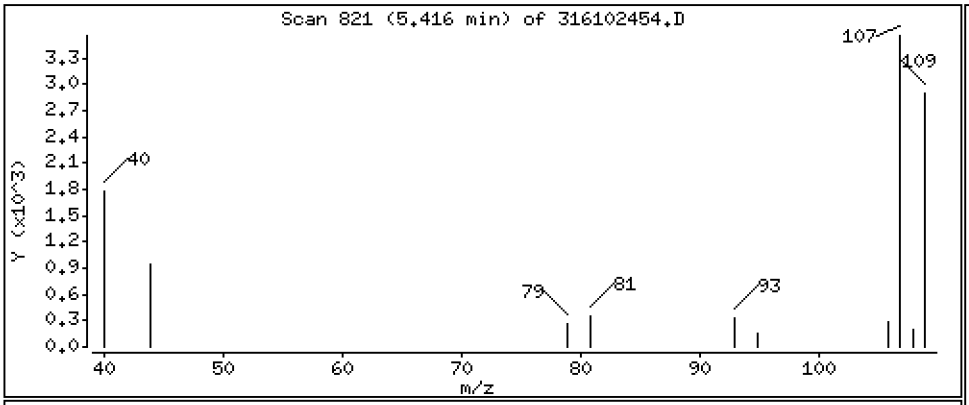
Client ID: Instrument: ms03.i

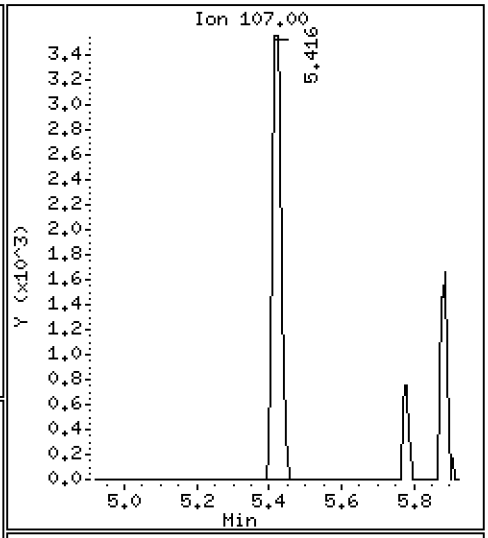
Sample Info: 1234;;1;1;1;;;

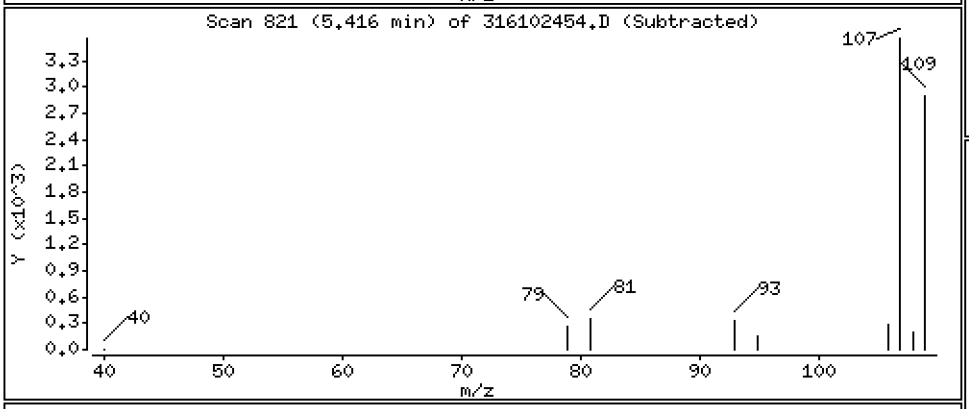
Purge Volume: 5.0 Operator: CJG

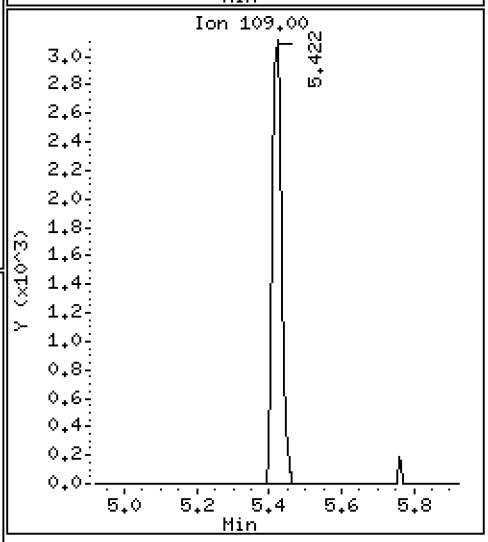
Column phase: DB-VRX Column diameter: 0.25

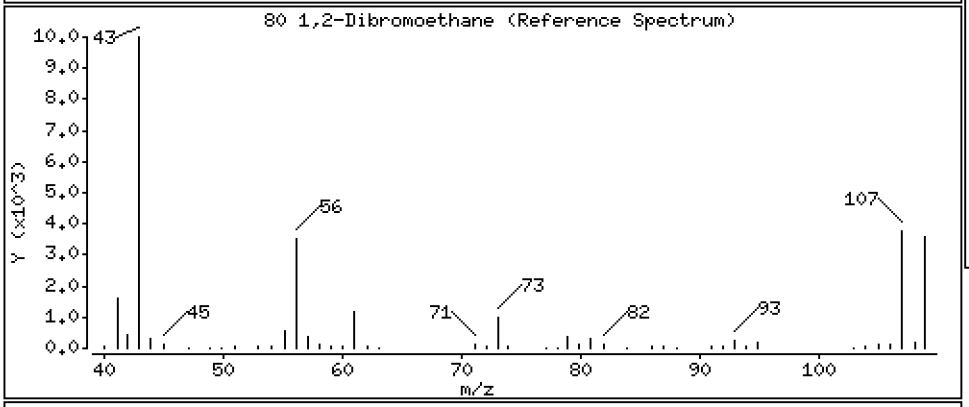
80 1,2-Dibromoethane Concentration: 0.979669 ug/L

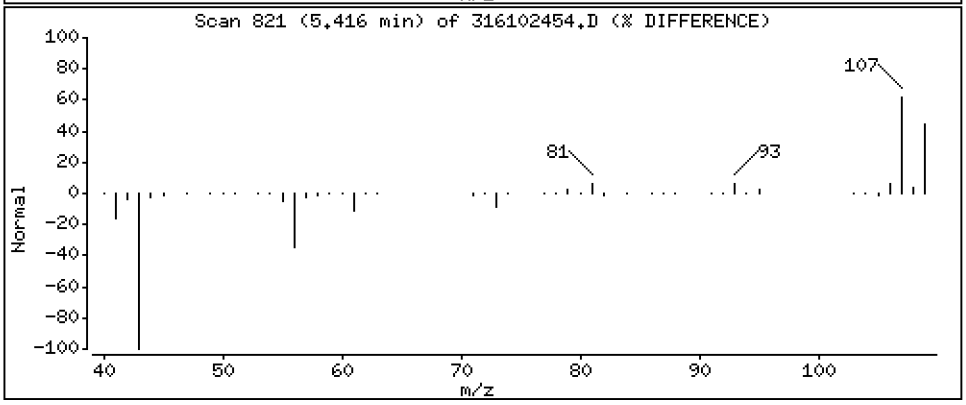












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 85

Date : 24-OCT-2016 23:46

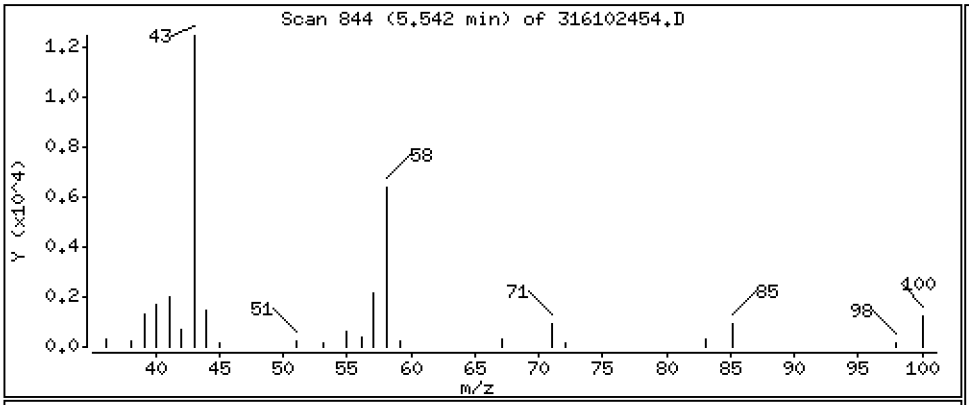
Client ID: Instrument: ms03.i

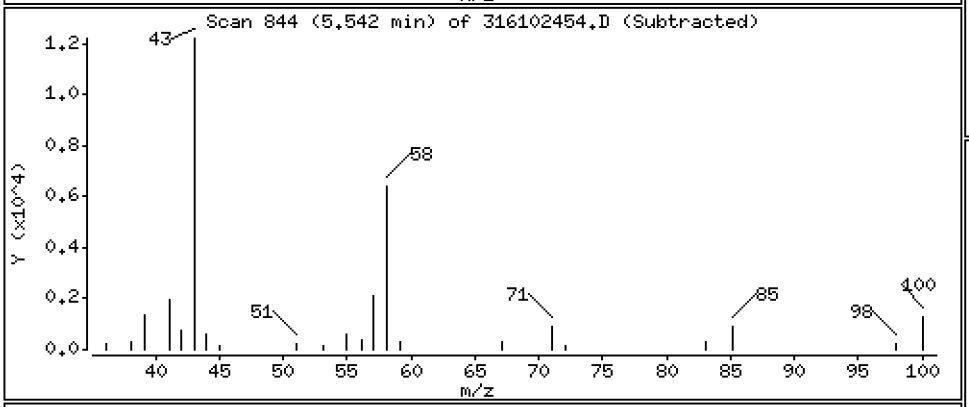
Sample Info: 1234;;1;1;1;;;

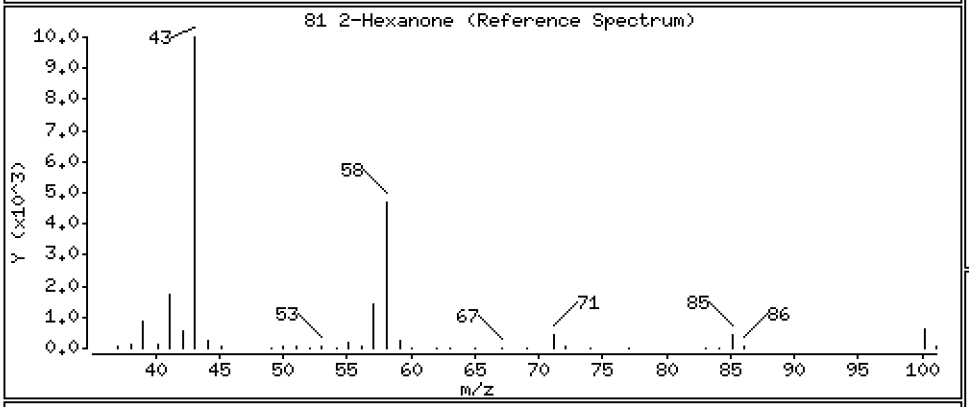
Purge Volume: 5.0 Operator: CJG

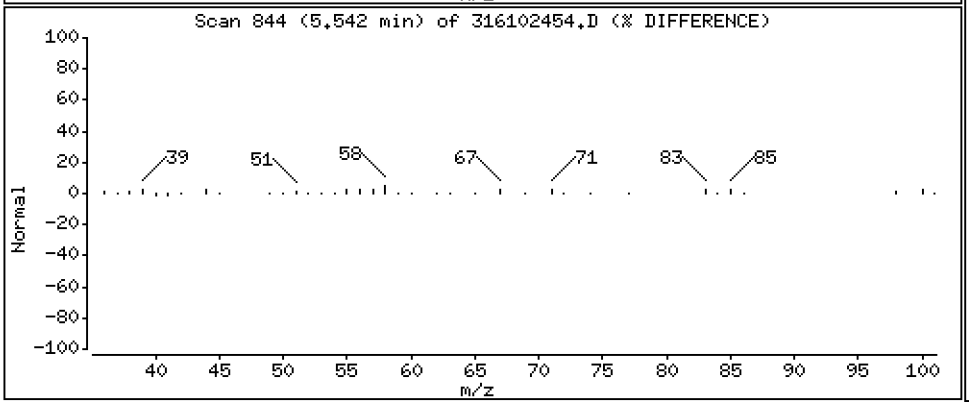
Column phase: DB-VRX Column diameter: 0.25

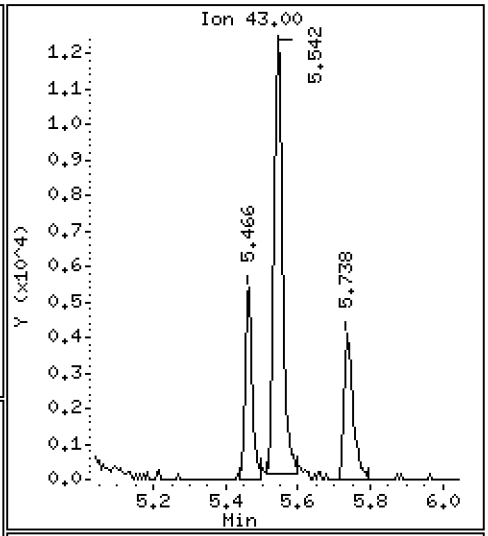
81 2-Hexanone Concentration: 3.92995 ug/L

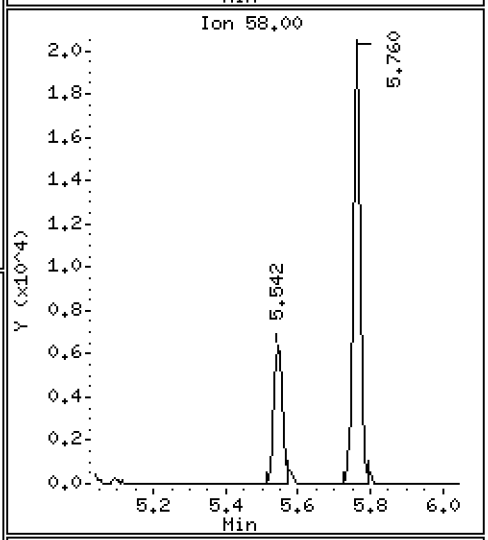


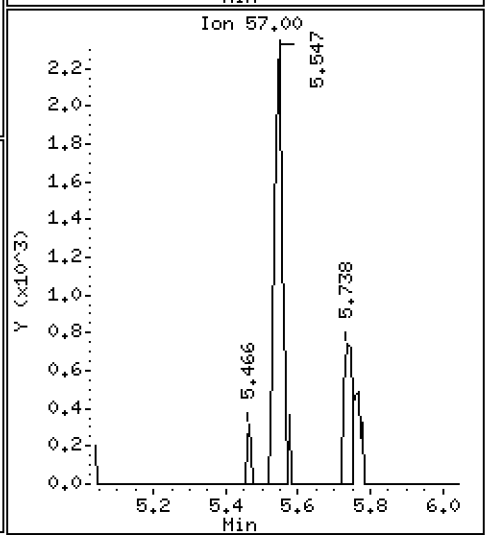












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 86

Date : 24-OCT-2016 23:46

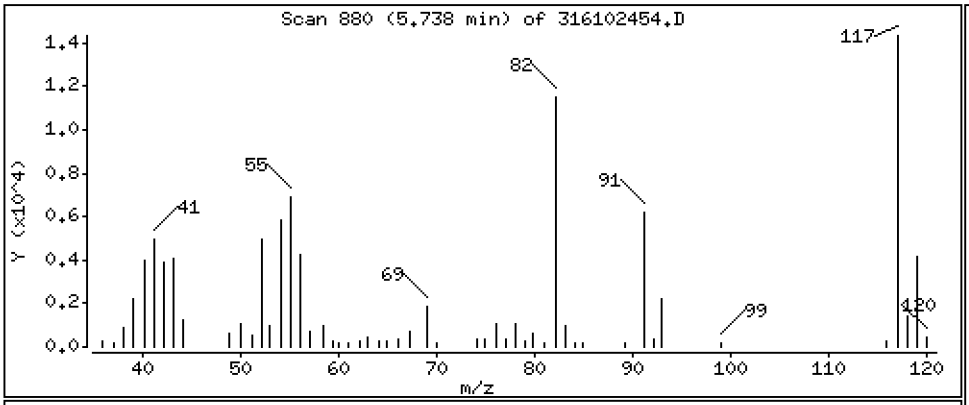
Client ID: Instrument: ms03.i

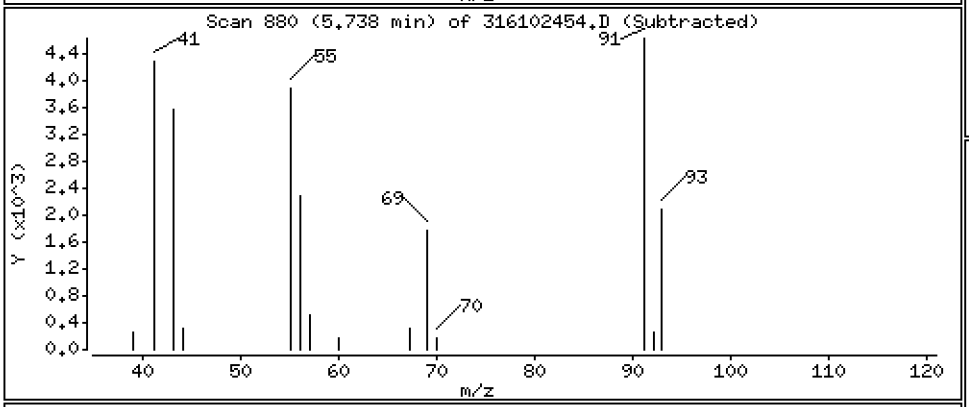
Sample Info: 1234;;1;1;1;;;

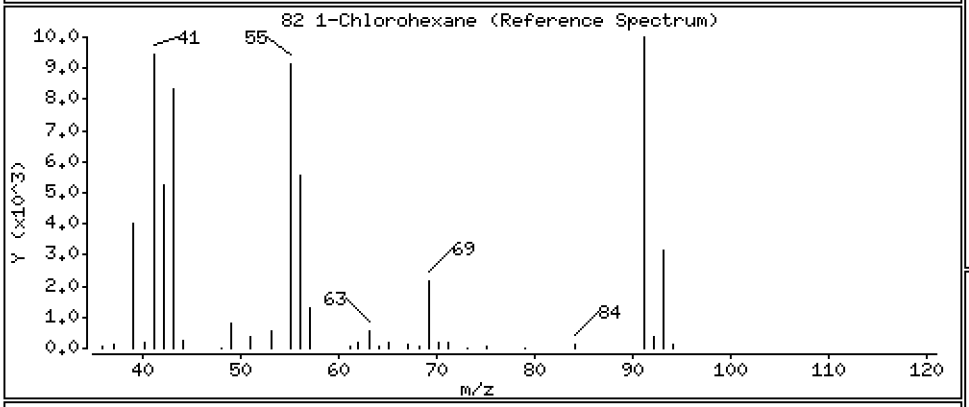
Purge Volume: 5.0 Operator: CJG

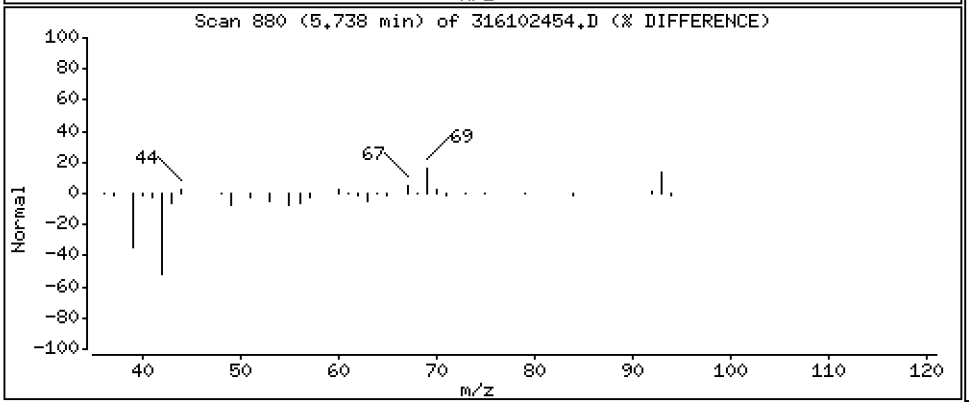
Column phase: DB-VRX Column diameter: 0.25

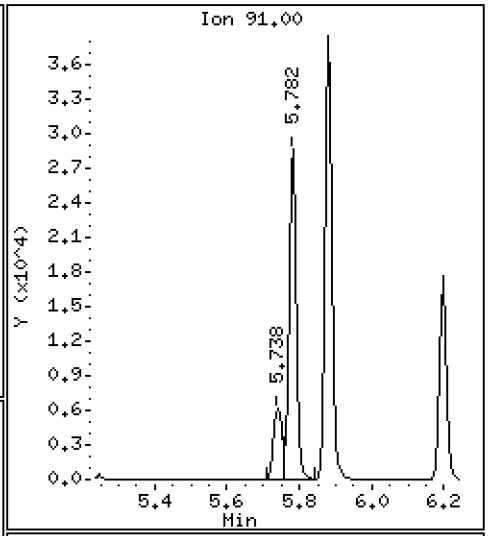
82 1-Chlorohexane Concentration: 0.980863 ug/L

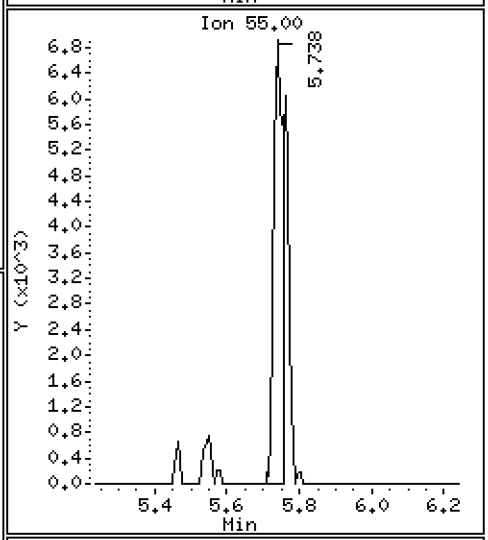


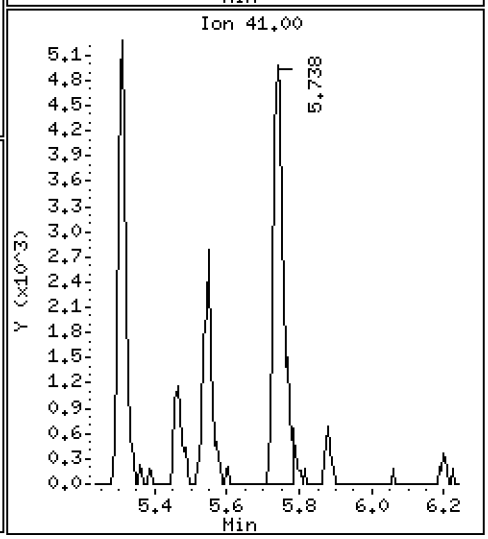












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 87

Date : 24-OCT-2016 23:46

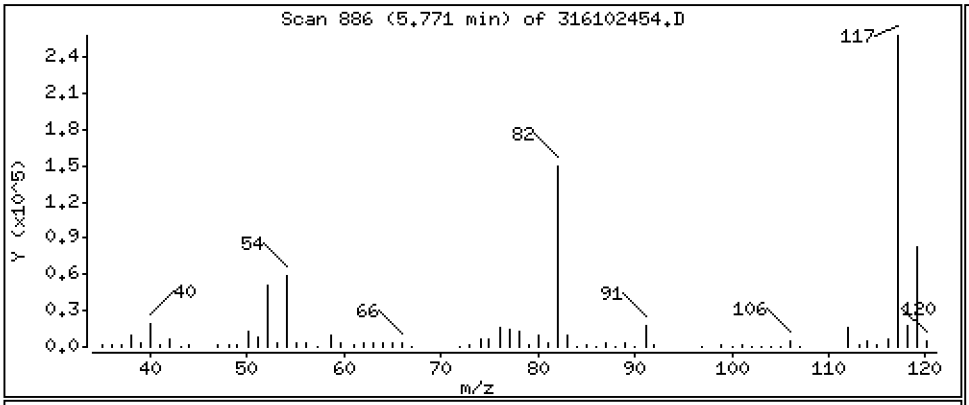
Client ID: Instrument: ms03.i

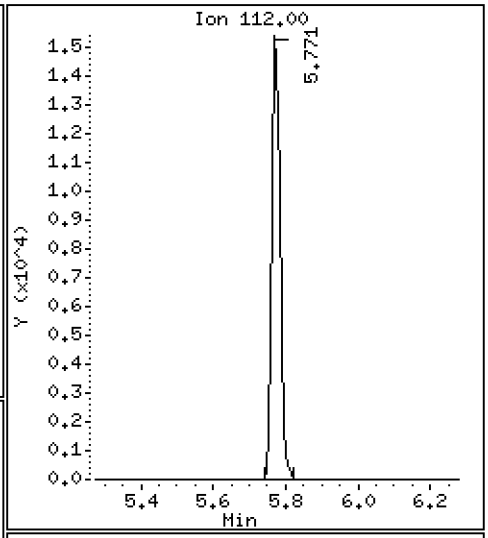
Sample Info: 1234;;1;1;1;;;

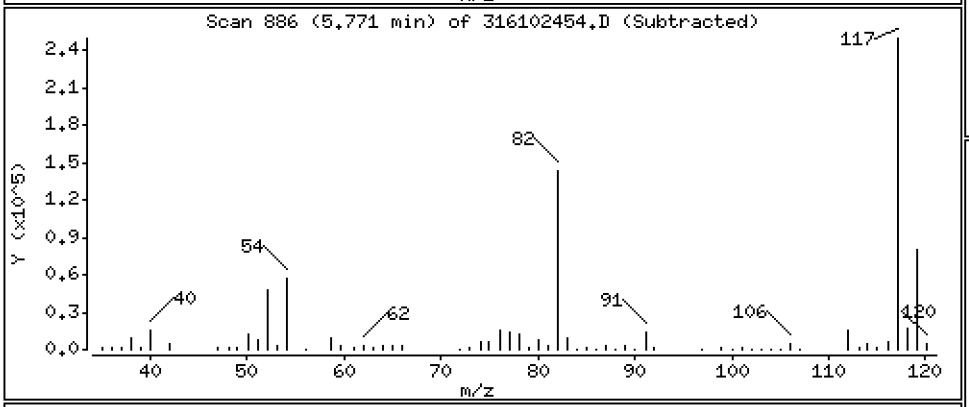
Purge Volume: 5.0 Operator: CJG

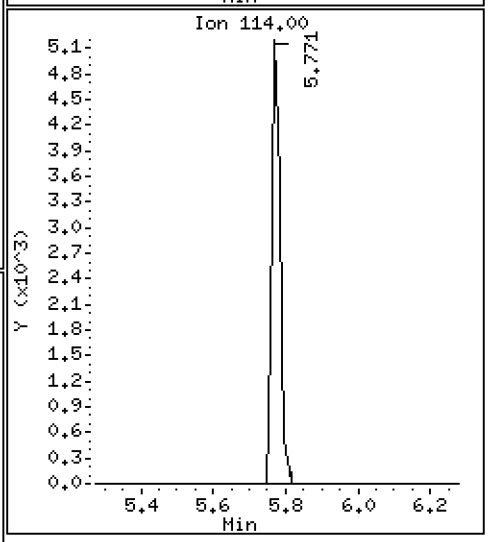
Column phase: DB-VRX Column diameter: 0.25

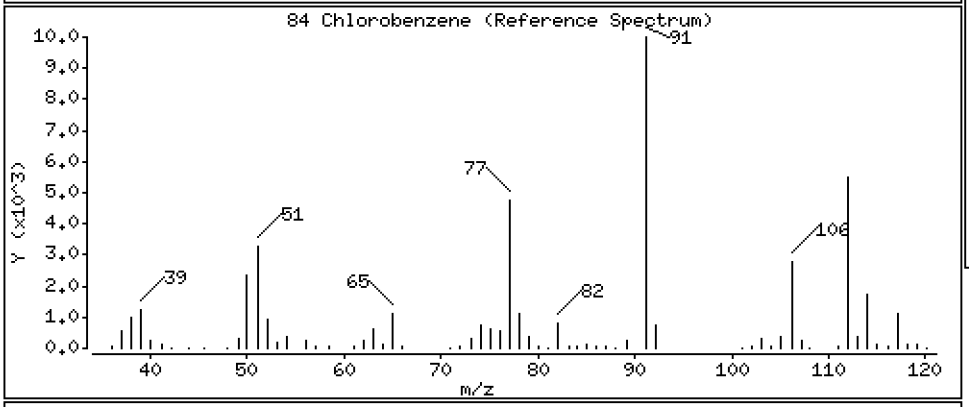
84 Chlorobenzene Concentration: 1.23546 ug/L

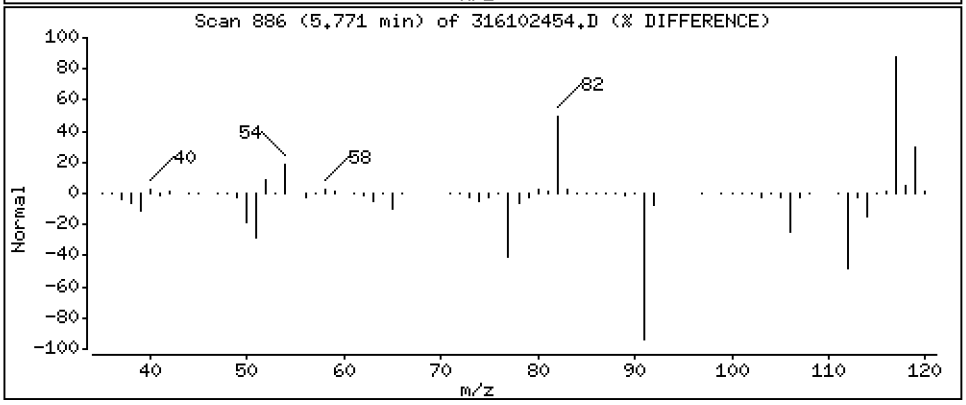












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 88

Date : 24-OCT-2016 23:46

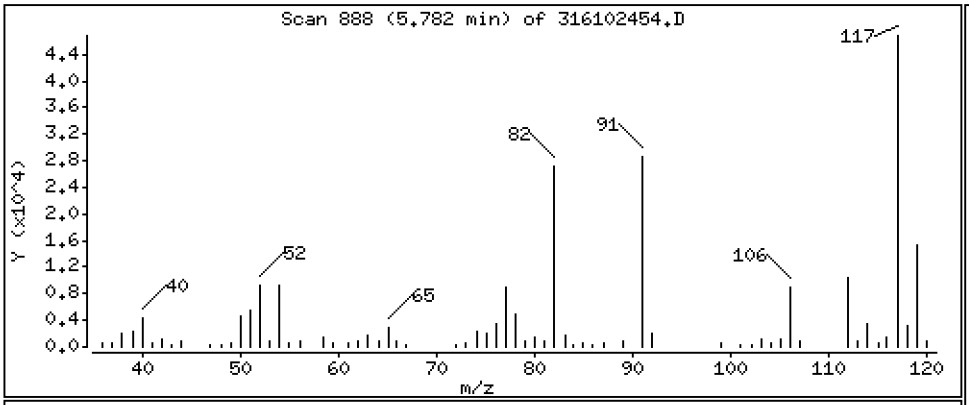
Client ID: Instrument: ms03.i

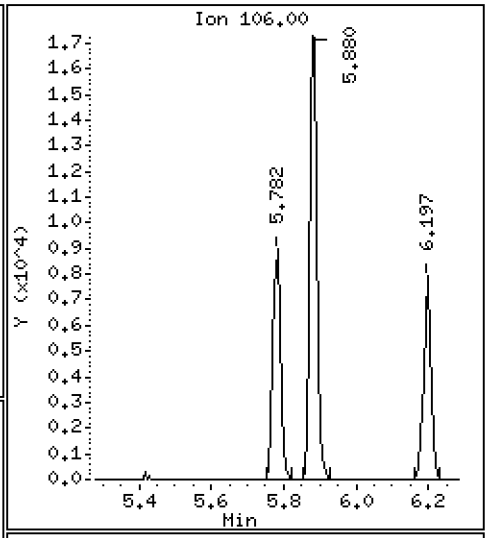
Sample Info: 1234;;1;1;1;;;

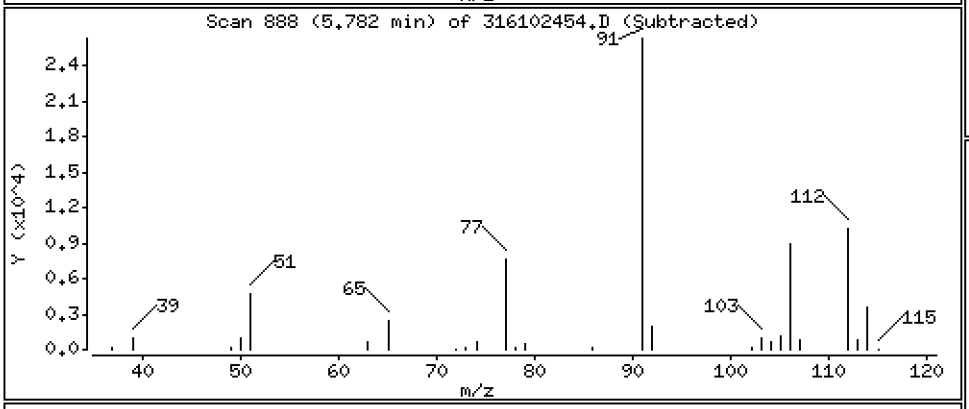
Purge Volume: 5.0 Operator: CJG

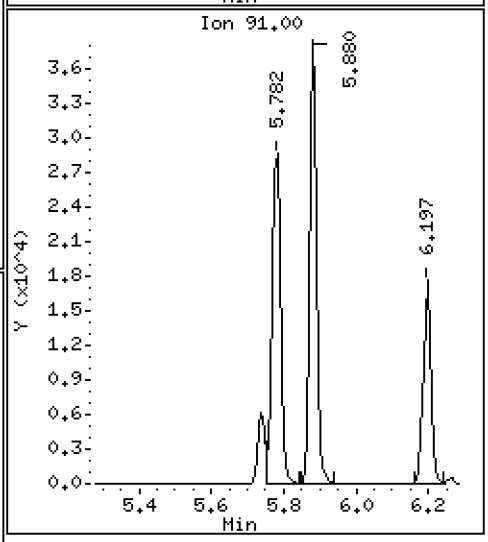
Column phase: DB-VRX Column diameter: 0.25

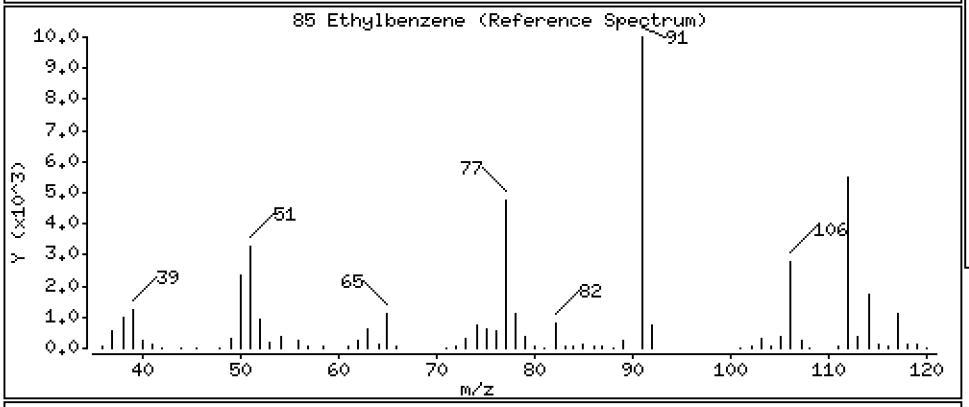
85 Ethylbenzene Concentration: 1.19109 ug/L

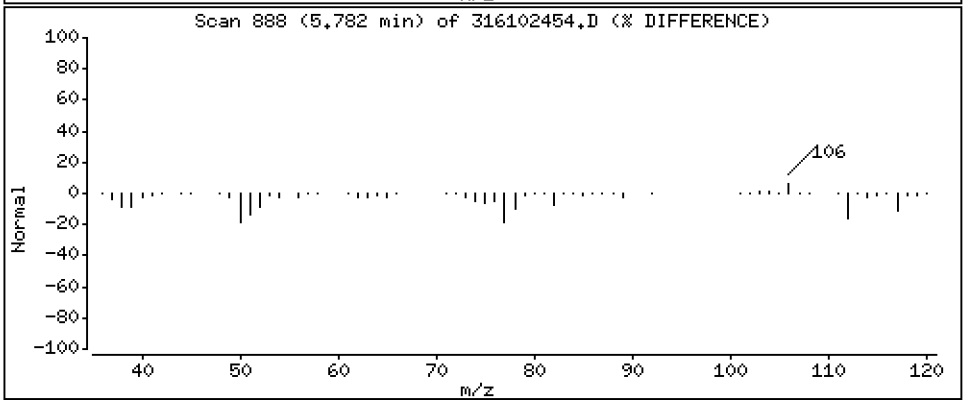












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 89

Date : 24-OCT-2016 23:46

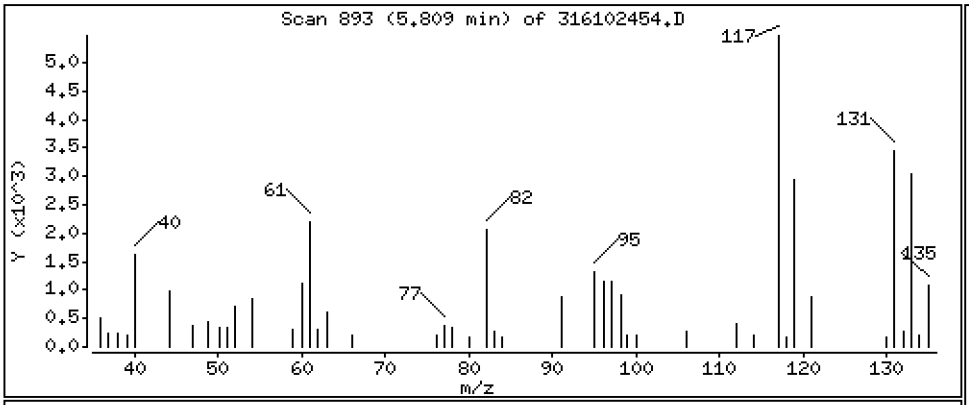
Client ID: Instrument: ms03.i

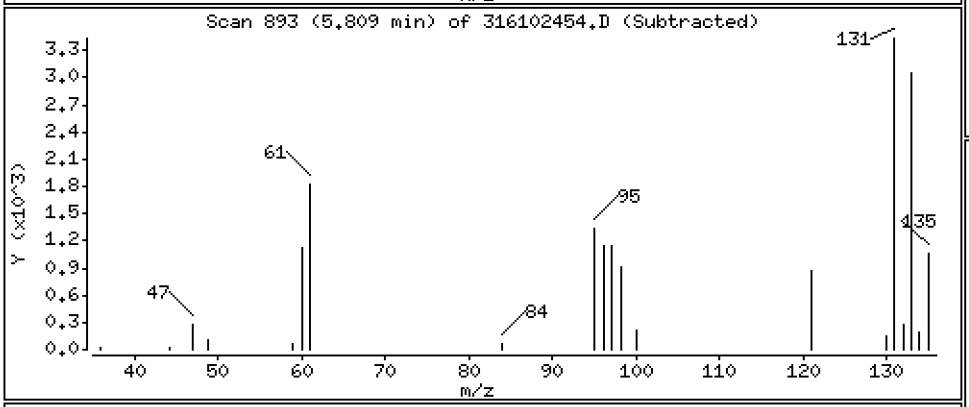
Sample Info: 1234;;1;1;1;;;

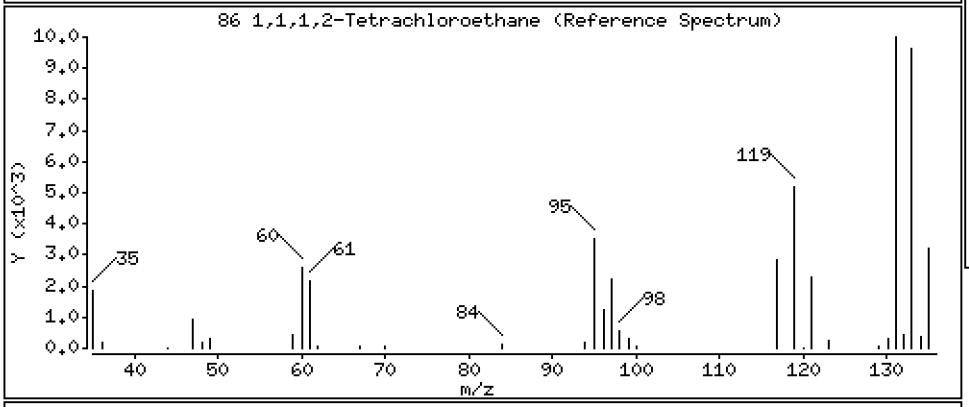
Purge Volume: 5.0 Operator: CJG

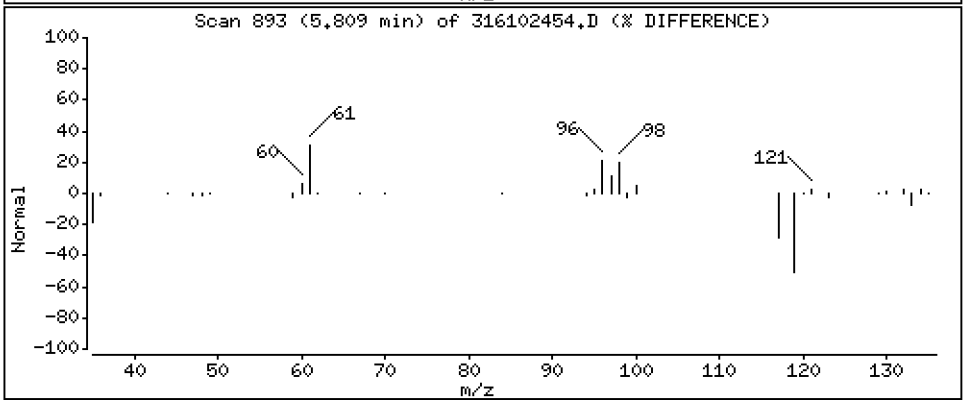
Column phase: DB-VRX Column diameter: 0.25

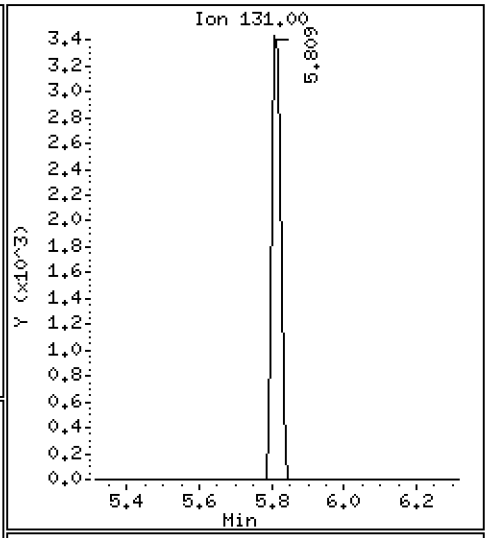
86 1,1,1,2-Tetrachloroethane Concentration: 0.975800 ug/L

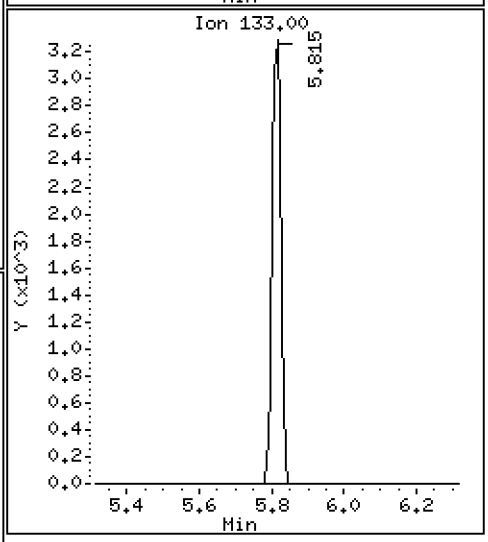












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 90

Date : 24-OCT-2016 23:46

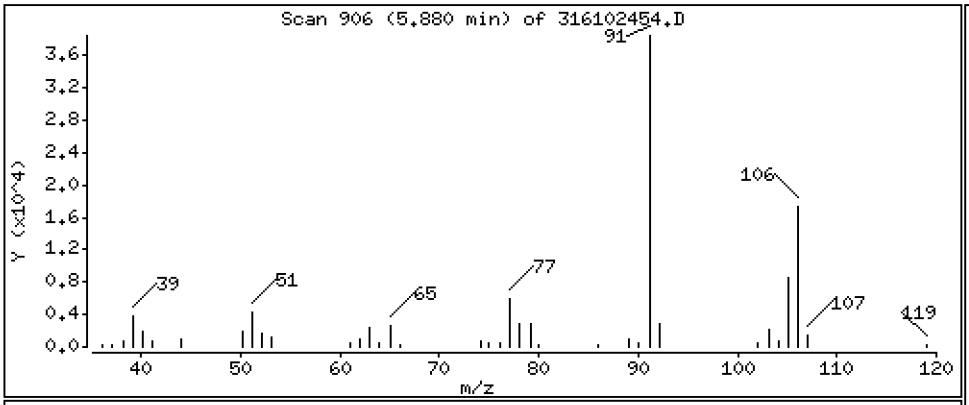
Client ID: Instrument: ms03.i

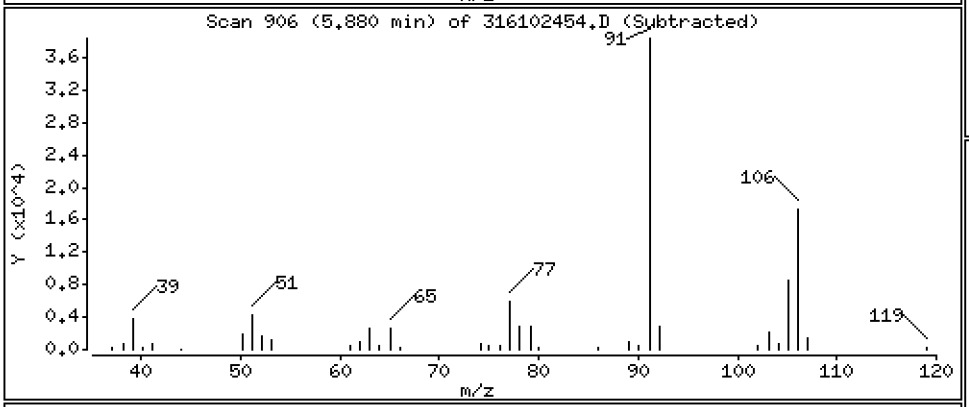
Sample Info: 1234;;1;1;1;;;

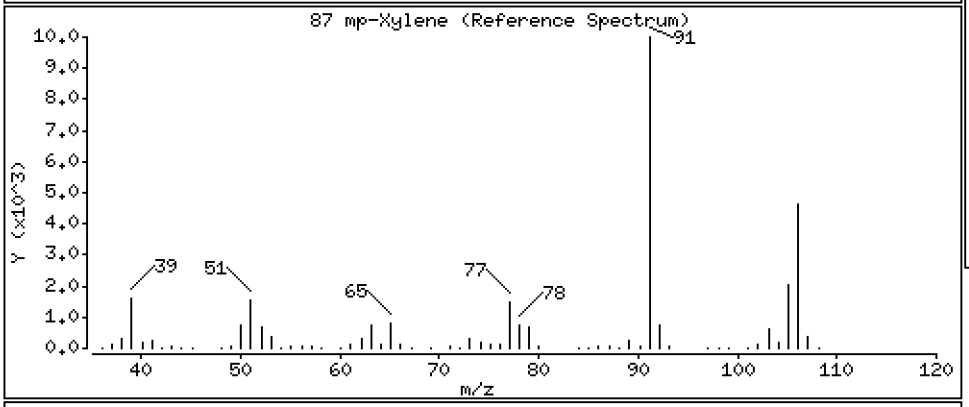
Purge Volume: 5.0 Operator: CJG

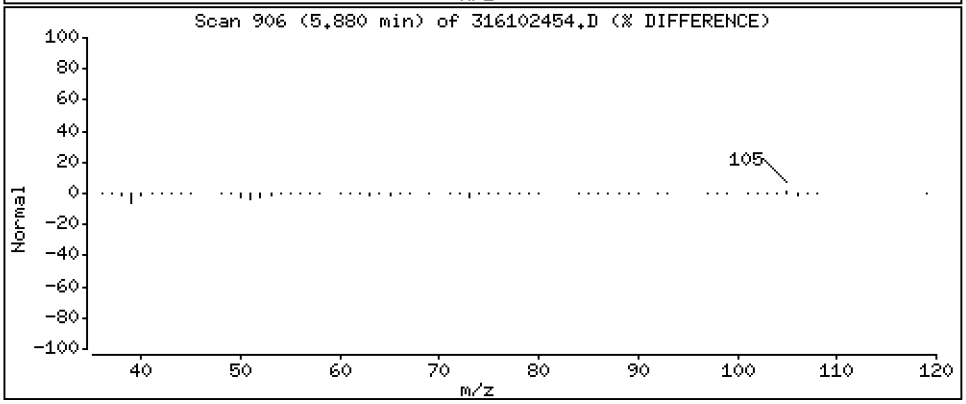
Column phase: DB-VRX Column diameter: 0.25

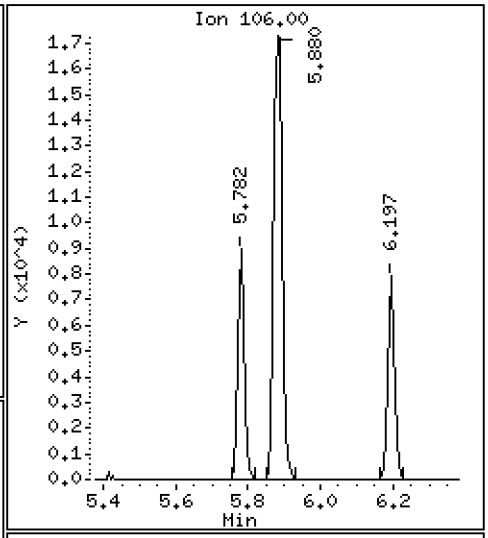
87 mp-Xylene Concentration: 2.13355 ug/L

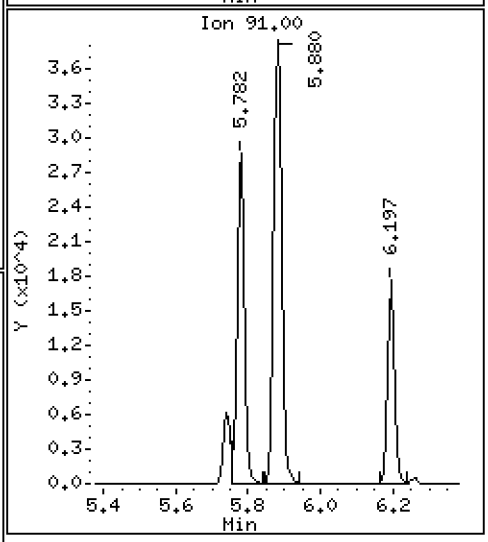












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 91

Date : 24-OCT-2016 23:46

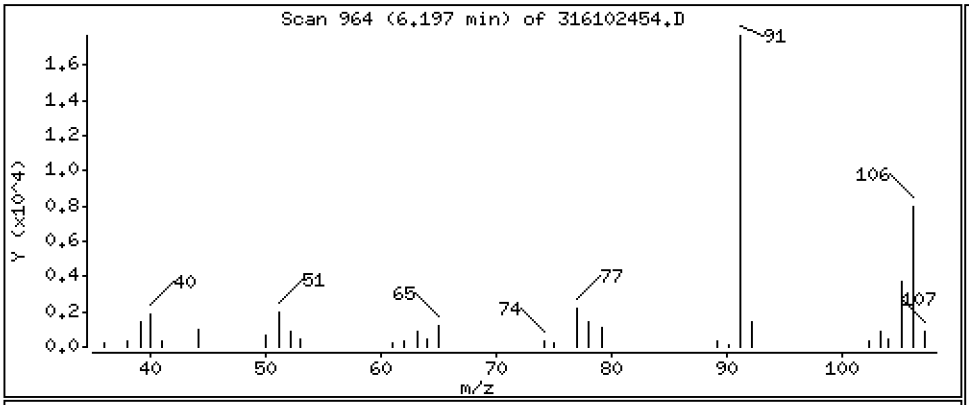
Client ID: Instrument: ms03.i

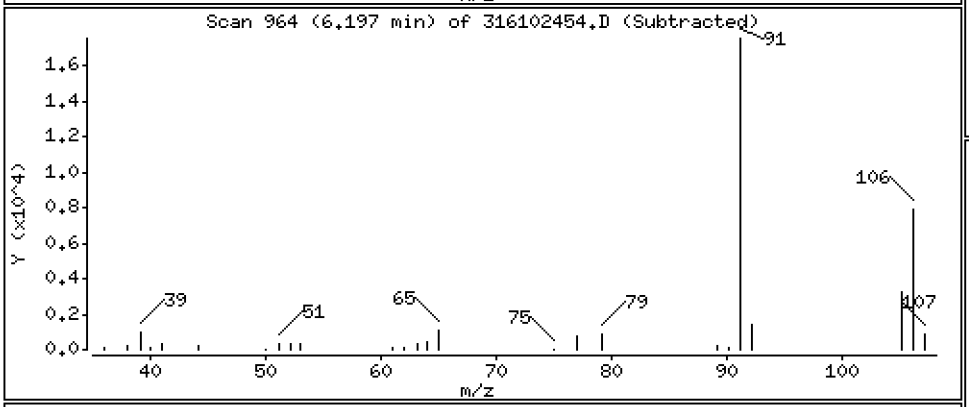
Sample Info: 1234;;1;1;1;;;

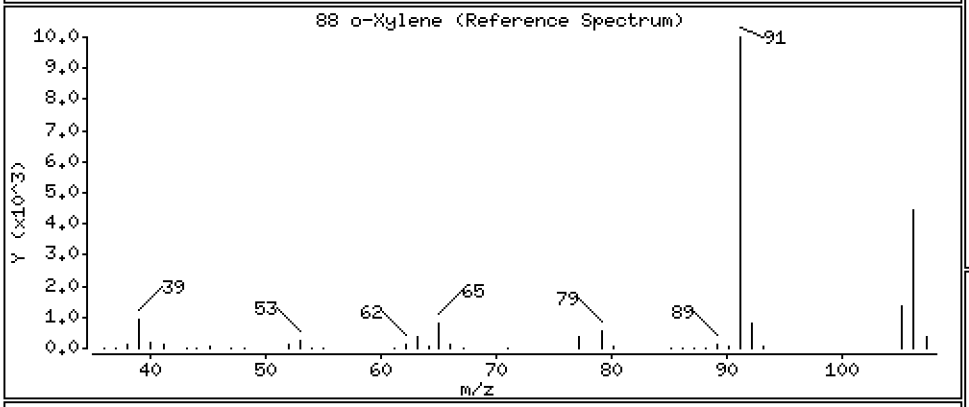
Purge Volume: 5.0 Operator: CJG

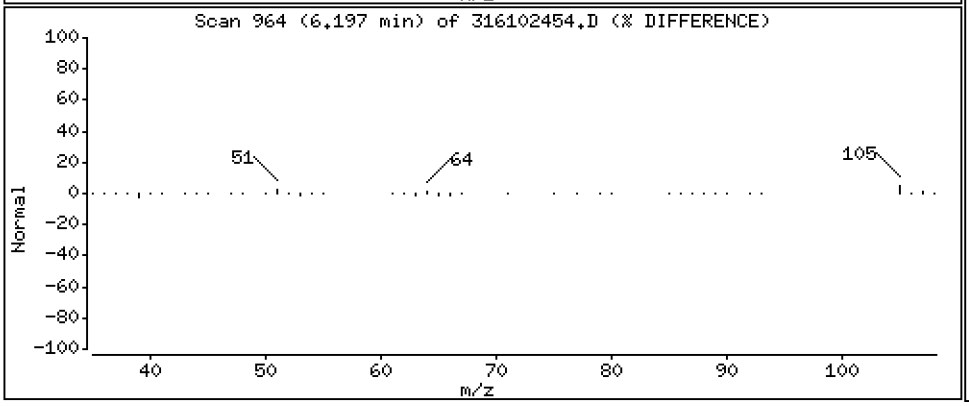
Column phase: DB-VRX Column diameter: 0.25

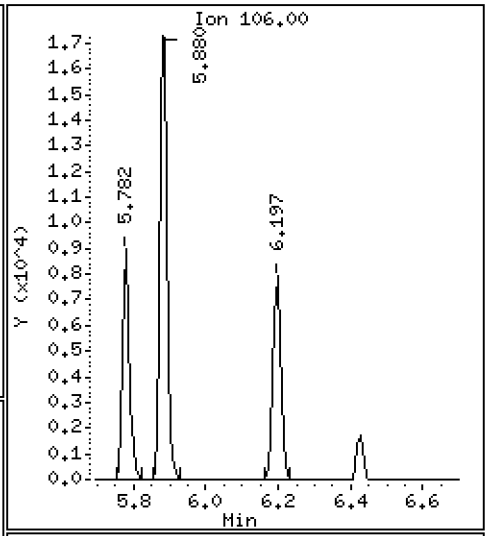
88 o-Xylene Concentration: 0.940086 ug/L

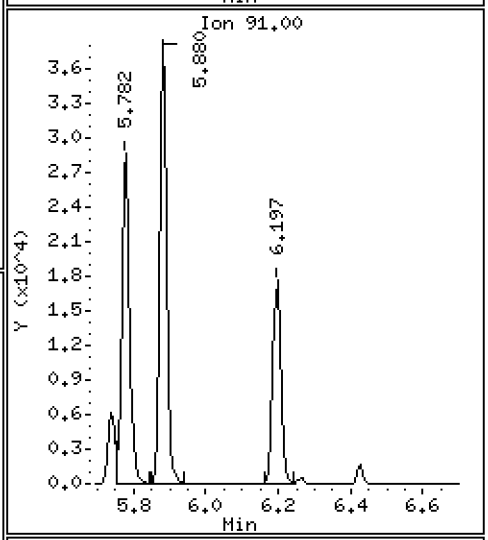


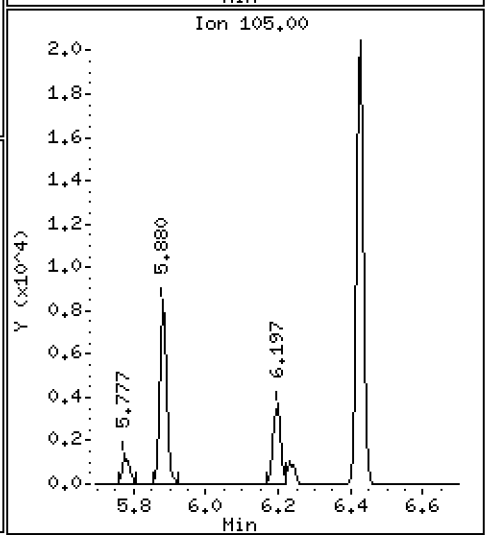












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 92

Date : 24-OCT-2016 23:46

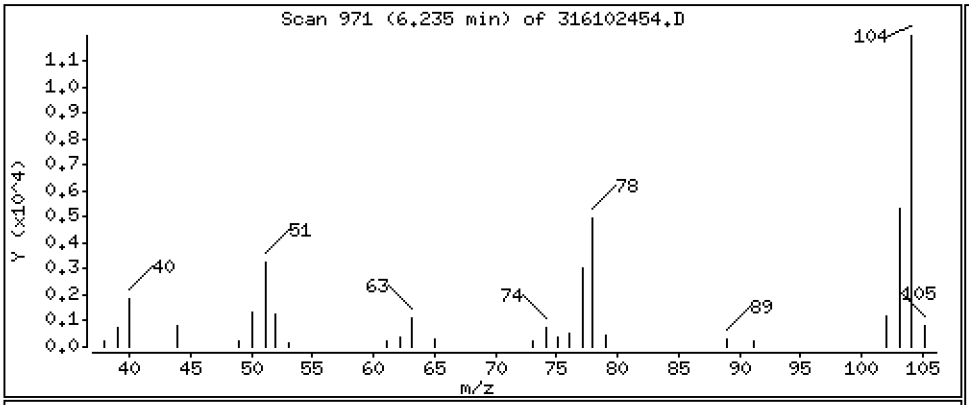
Client ID: Instrument: ms03.i

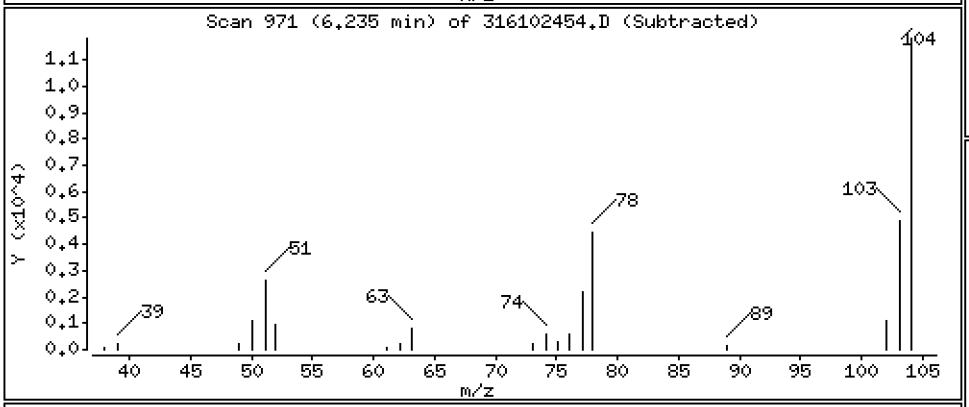
Sample Info: 1234;;1;1;1;;;

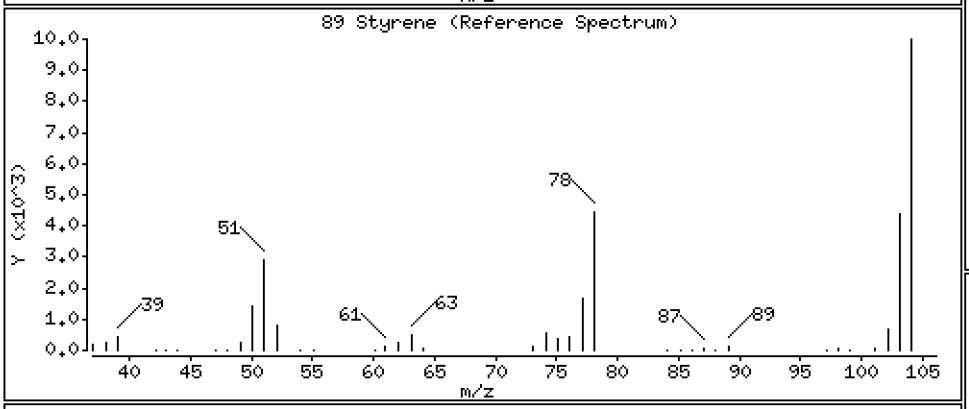
Purge Volume: 5.0 Operator: CJG

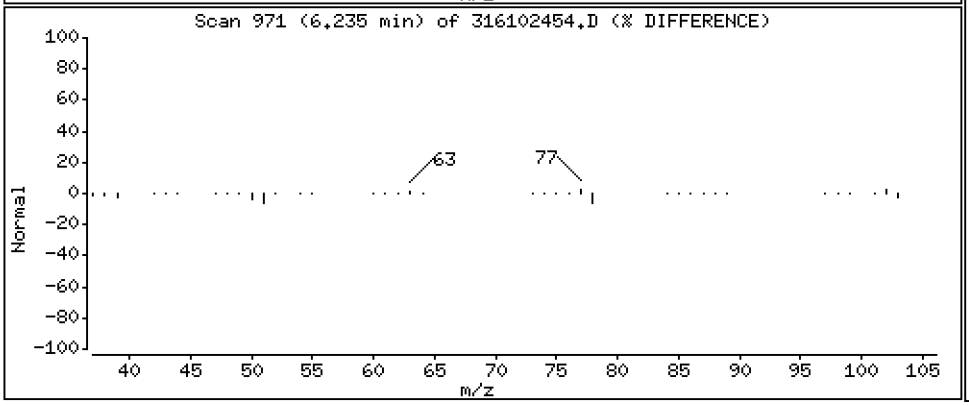
Column phase: DB-VRX Column diameter: 0.25

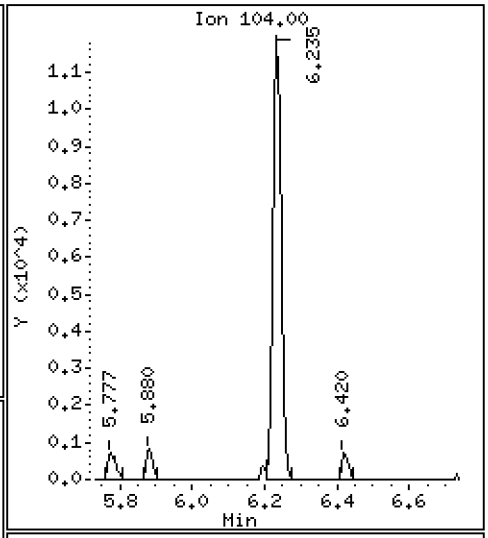
89 Styrene Concentration: 0.928161 ug/L

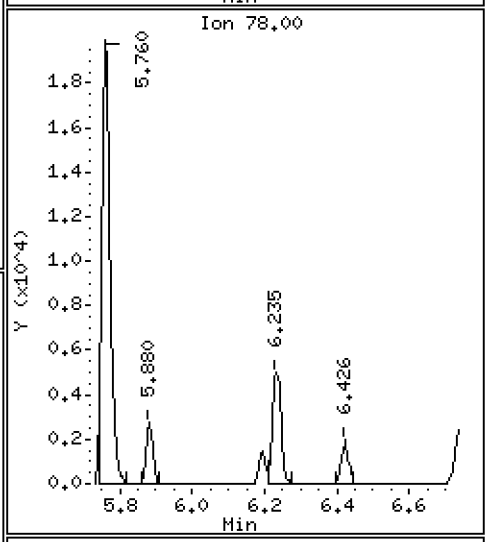


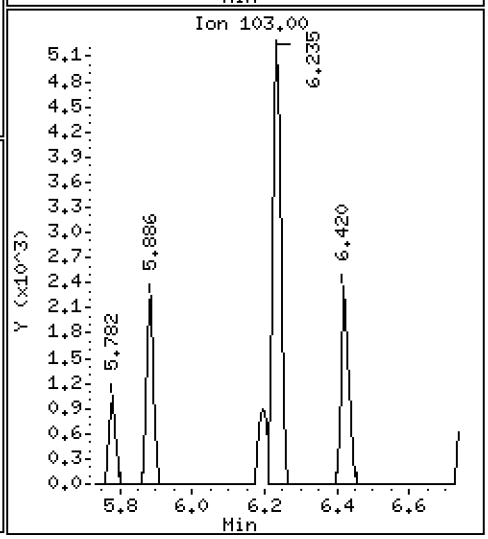












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 93

Date : 24-OCT-2016 23:46

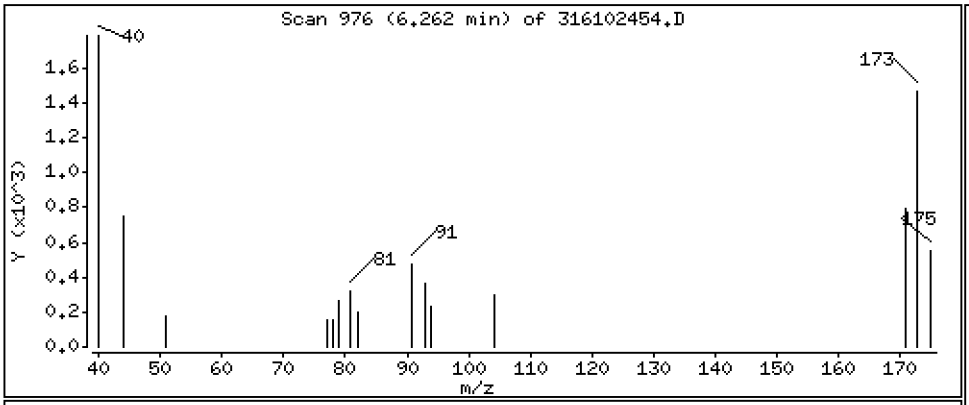
Client ID: Instrument: ms03.i

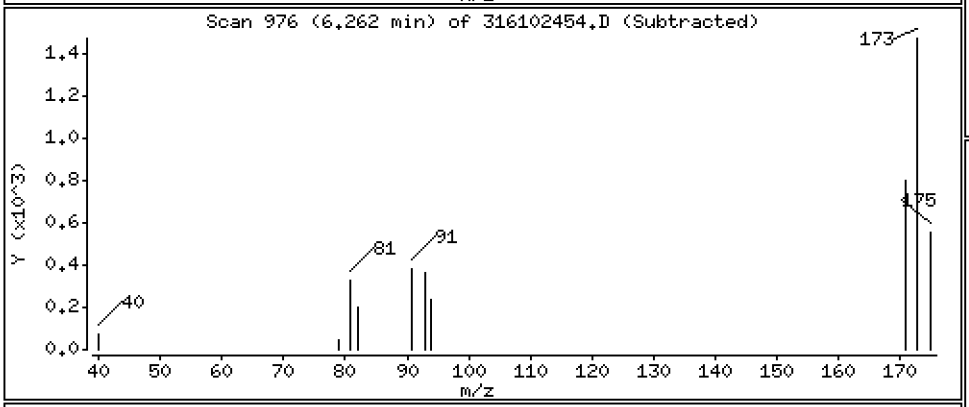
Sample Info: 1234;;1;1;1;;;

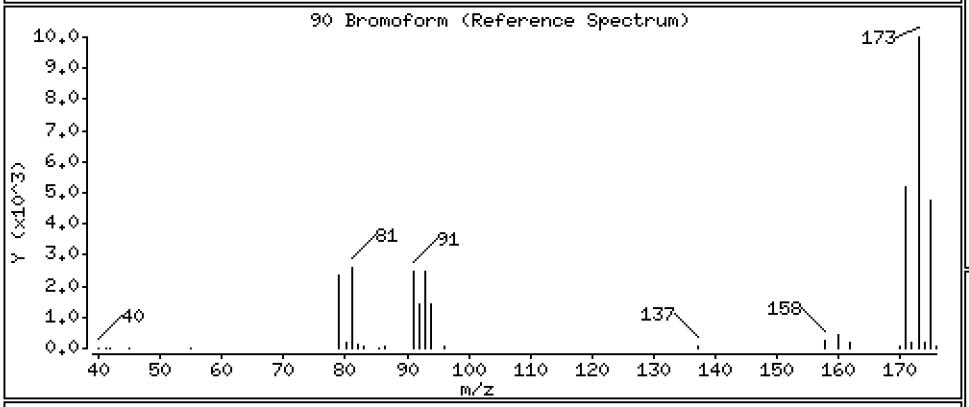
Purge Volume: 5.0 Operator: CJG

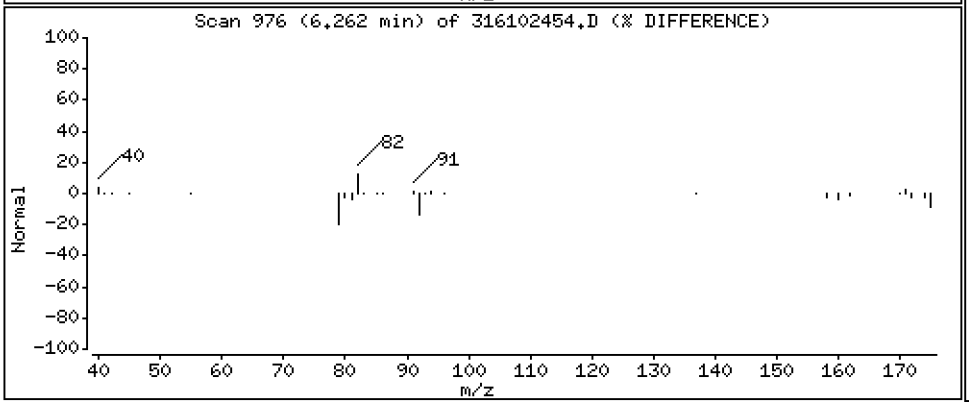
Column phase: DB-VRX Column diameter: 0.25

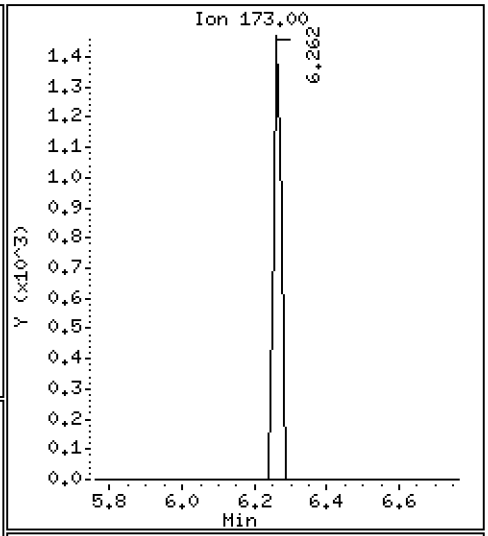
90 Bromoform Concentration: 0.859227 ug/L

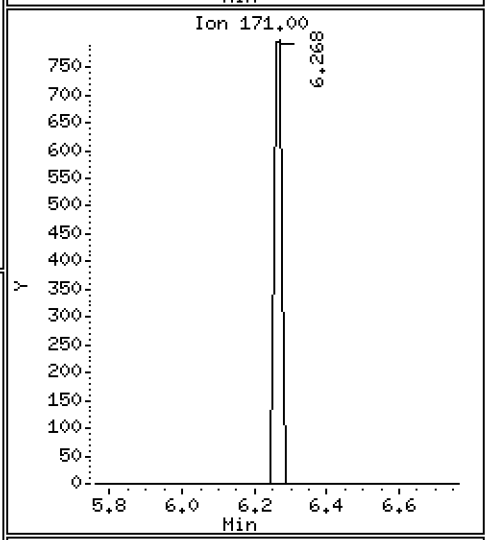


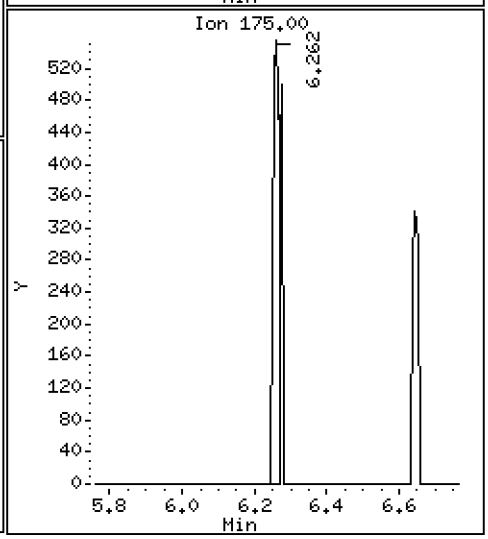












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 94

Date : 24-OCT-2016 23:46

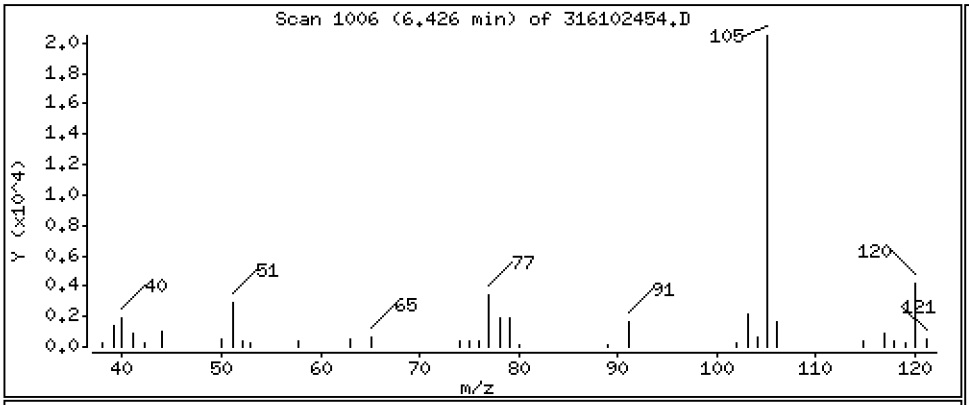
Client ID: Instrument: ms03.i

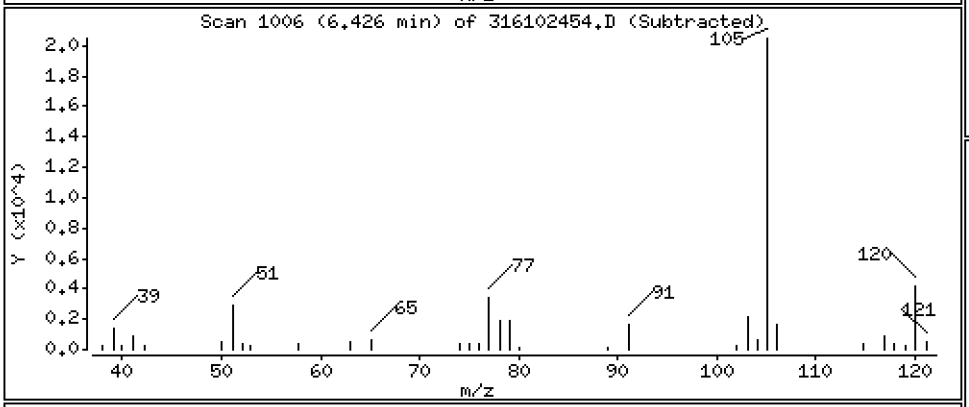
Sample Info: 1234;;1;1;1;;;

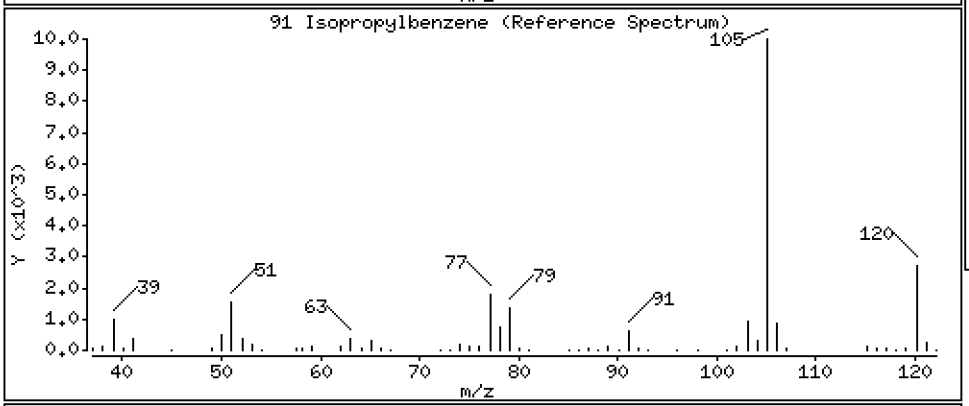
Purge Volume: 5.0 Operator: CJG

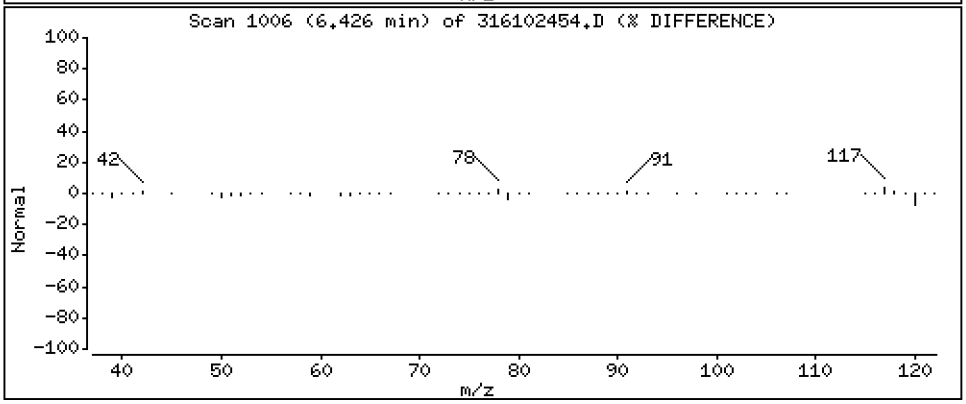
Column phase: DB-VRX Column diameter: 0.25

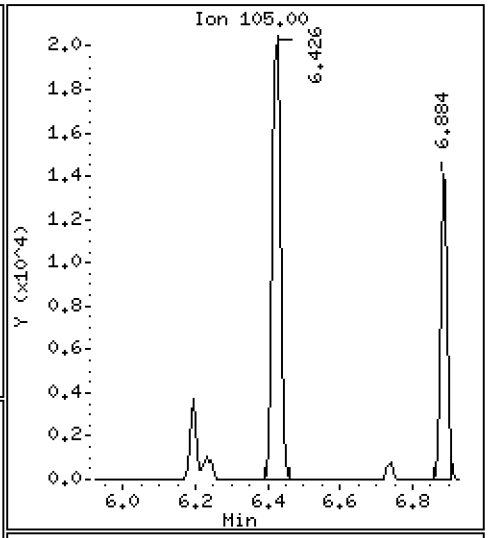
91 Isopropylbenzene Concentration: 1.05547 ug/L

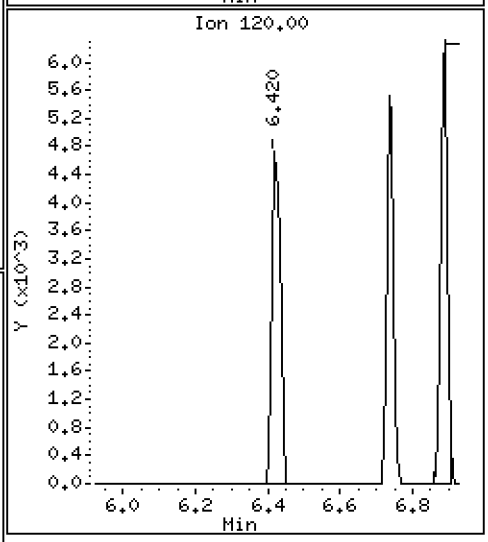












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 95

Date : 24-OCT-2016 23:46

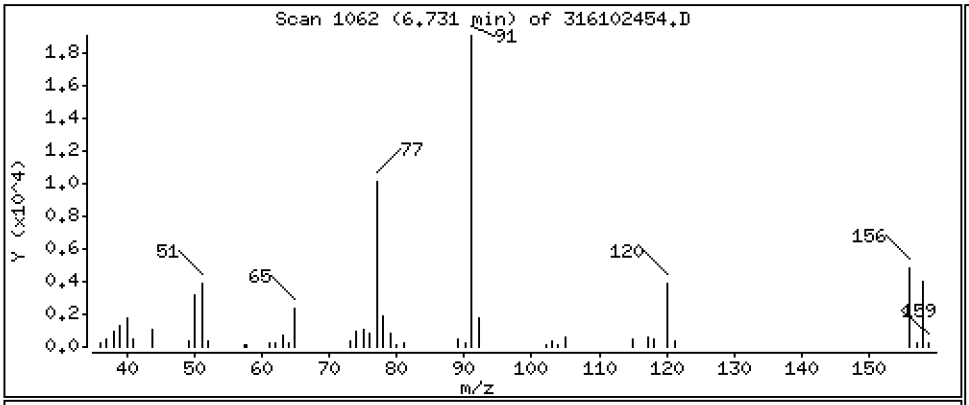
Client ID: Instrument: ms03.i

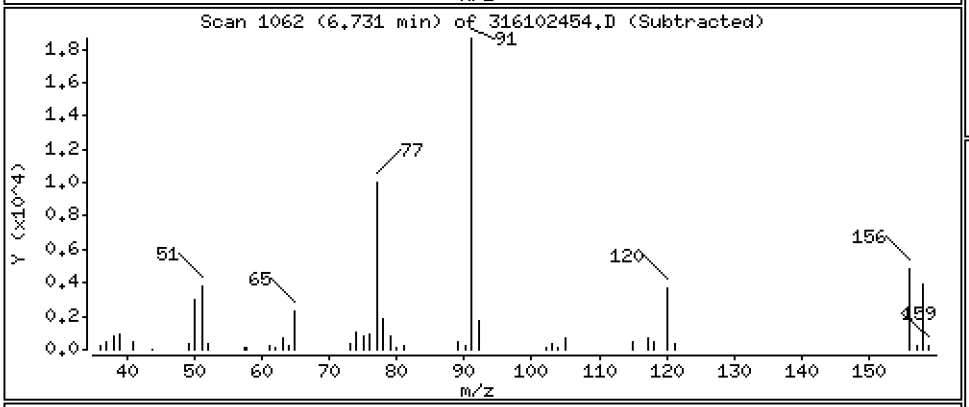
Sample Info: 1234;;1;1;1;;;

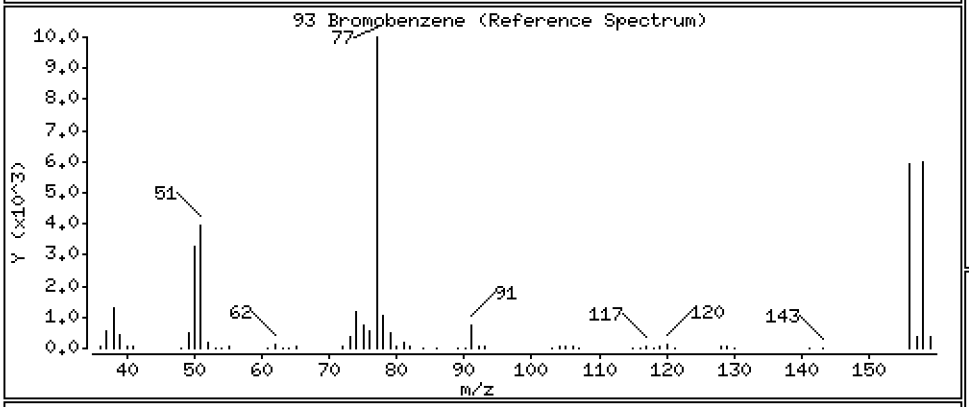
Purge Volume: 5.0 Operator: CJG

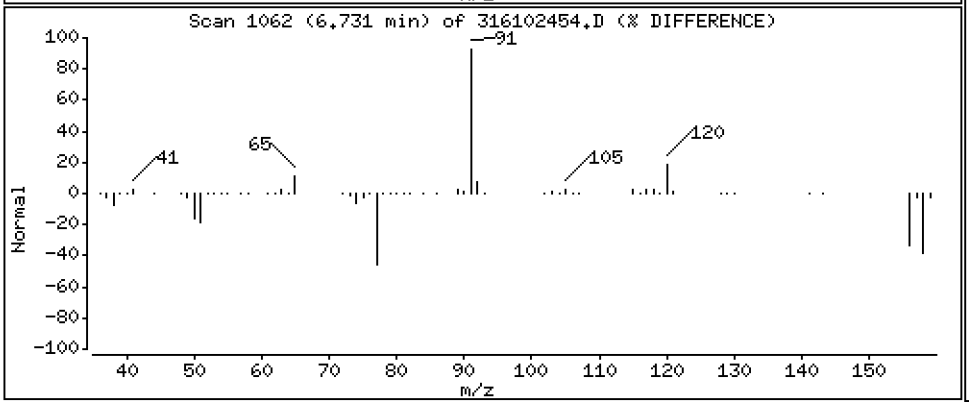
Column phase: DB-VRX Column diameter: 0.25

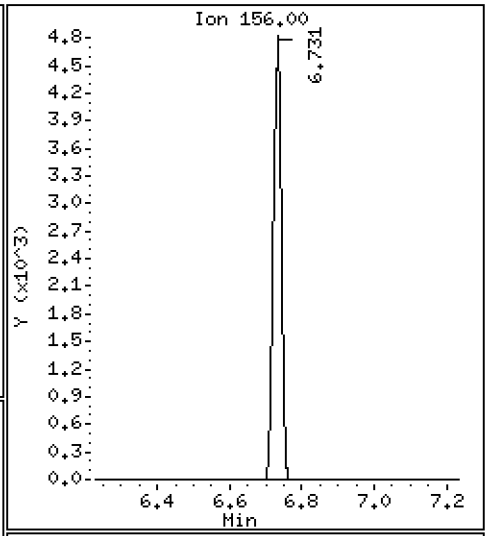
93 Bromobenzene Concentration: 1.16866 ug/L

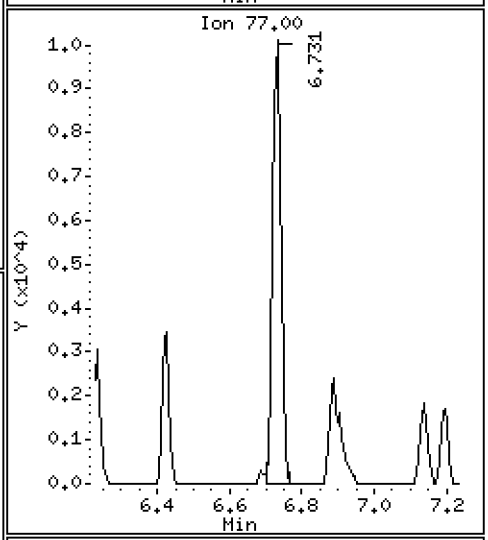


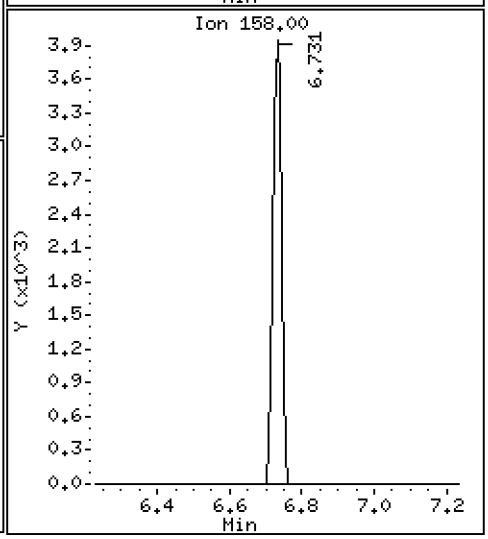












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 96

Date : 24-OCT-2016 23:46

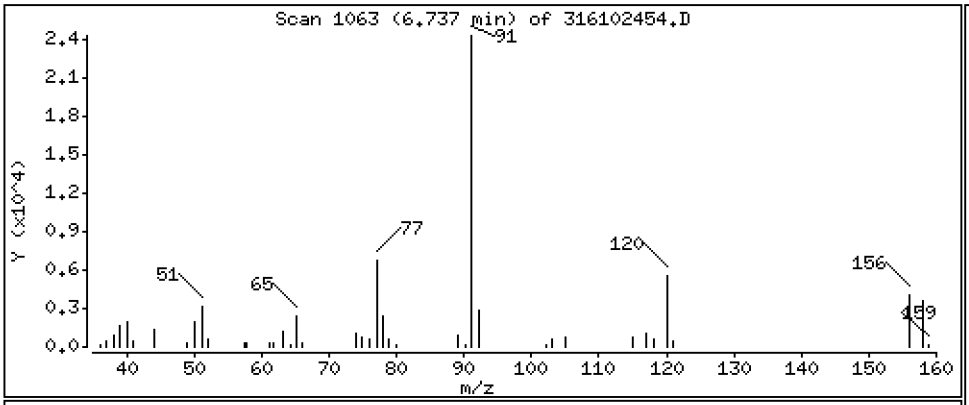
Client ID: Instrument: ms03.i

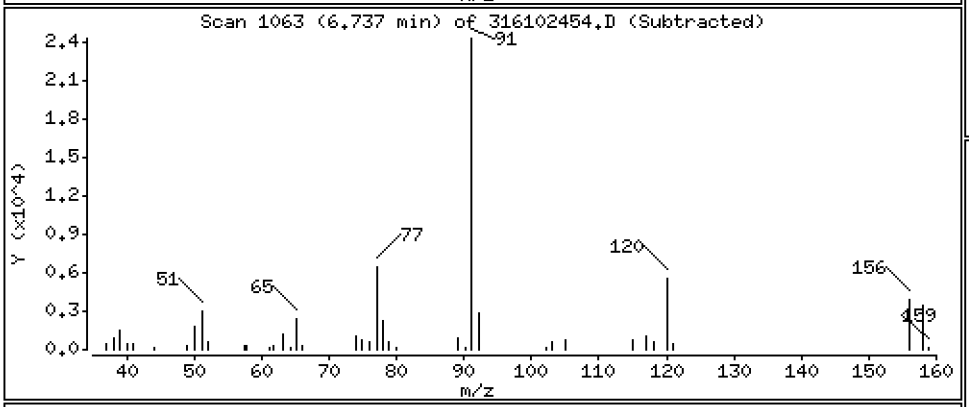
Sample Info: 1234;;1;1;1;;;

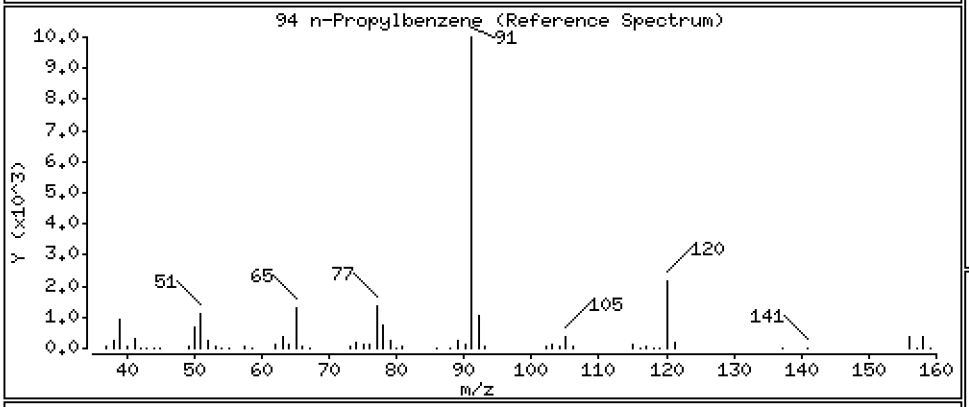
Purge Volume: 5.0 Operator: CJG

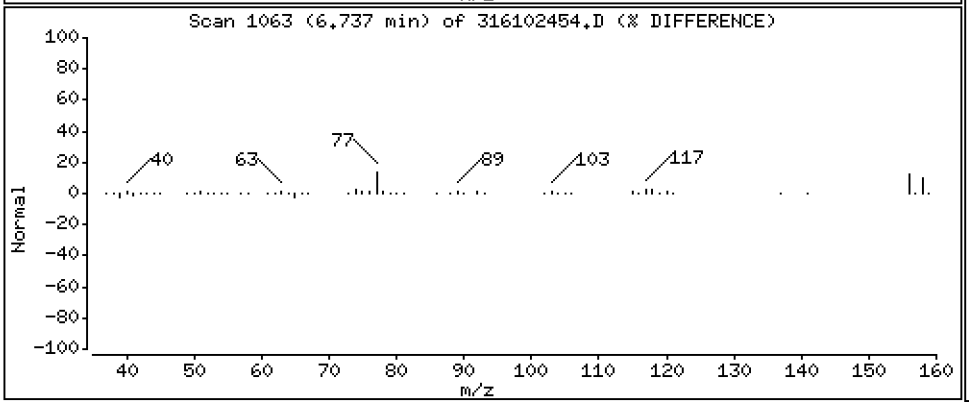
Column phase: DB-VRX Column diameter: 0.25

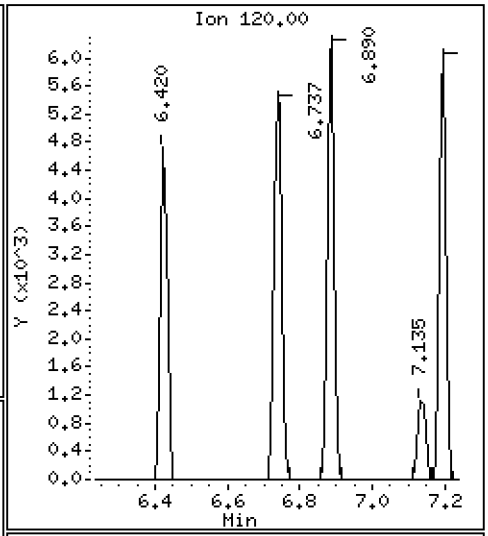
94 n-Propylbenzene Concentration: 1.05421 ug/L

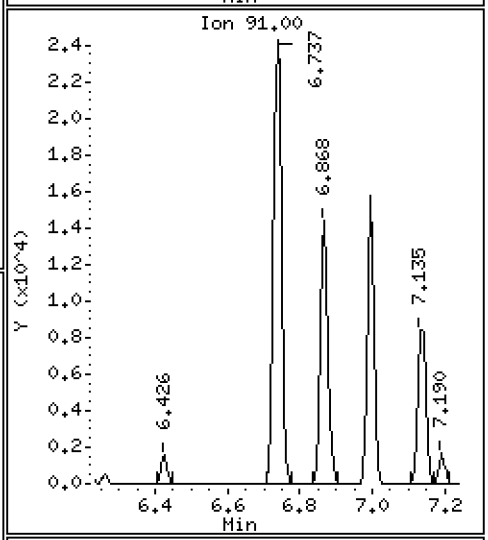


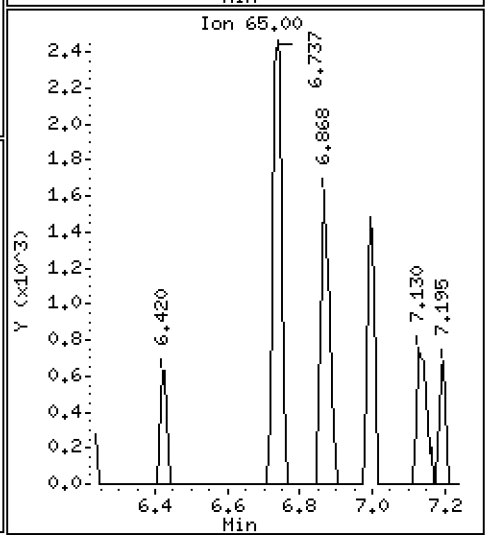












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 97

Date : 24-OCT-2016 23:46

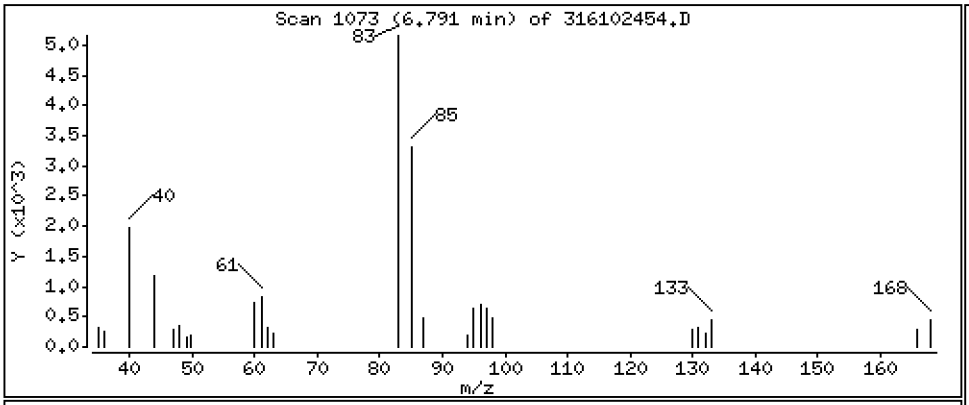
Client ID: Instrument: ms03.i

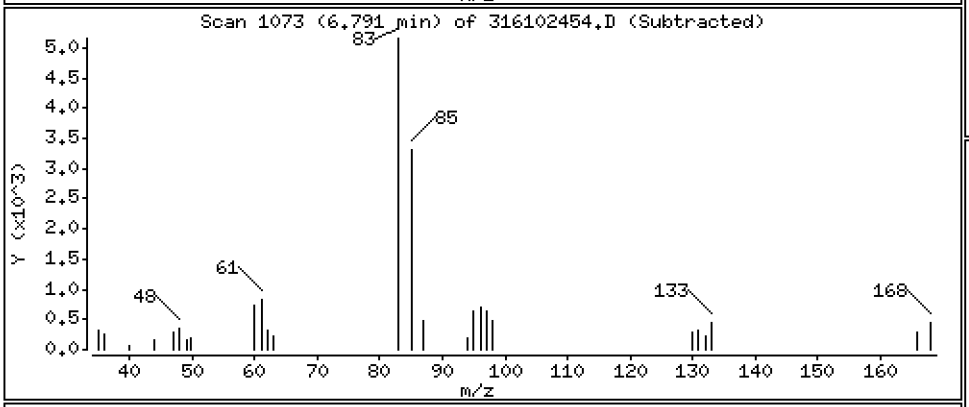
Sample Info: 1234;;1;1;1;;;

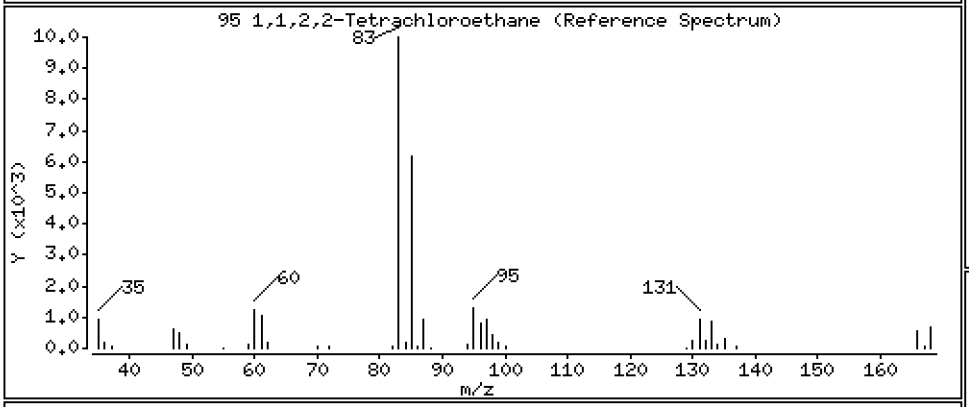
Purge Volume: 5.0 Operator: CJG

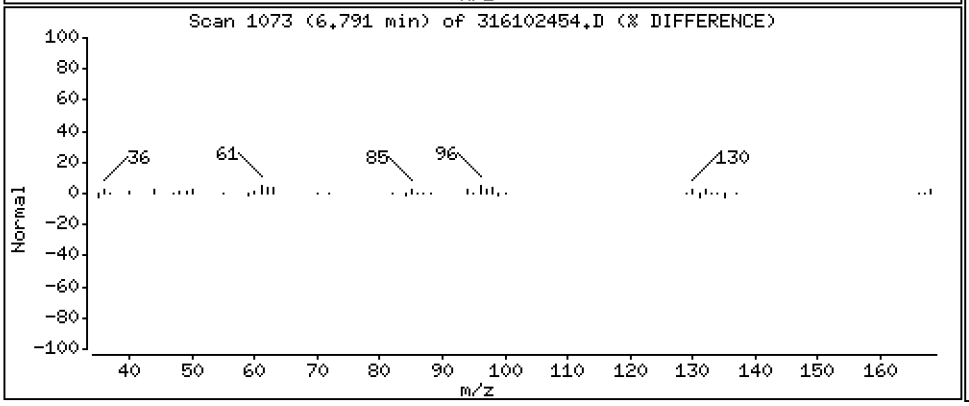
Column phase: DB-VRX Column diameter: 0.25

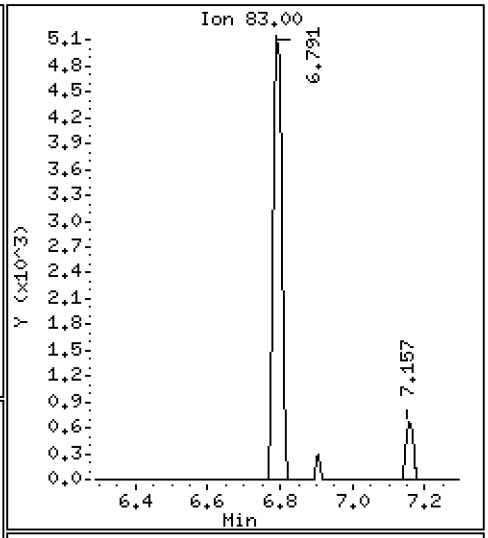
95 1,1,2,2-Tetrachloroethane Concentration: 1.12588 ug/L

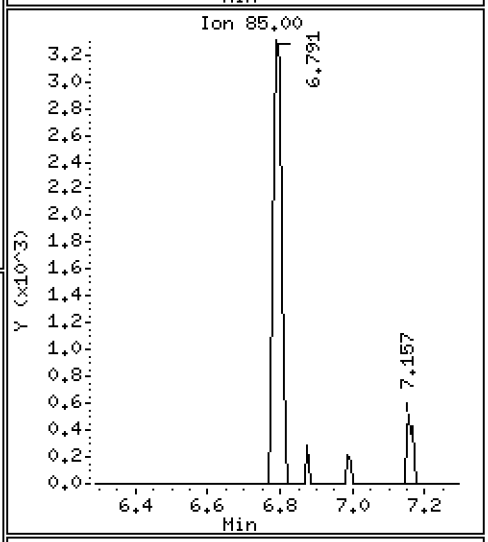


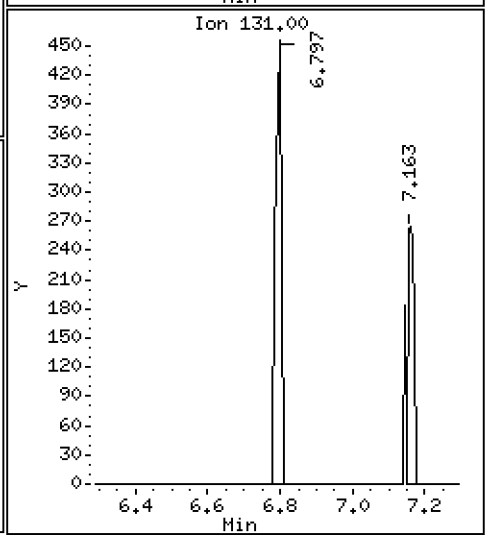












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 98

Date : 24-OCT-2016 23:46

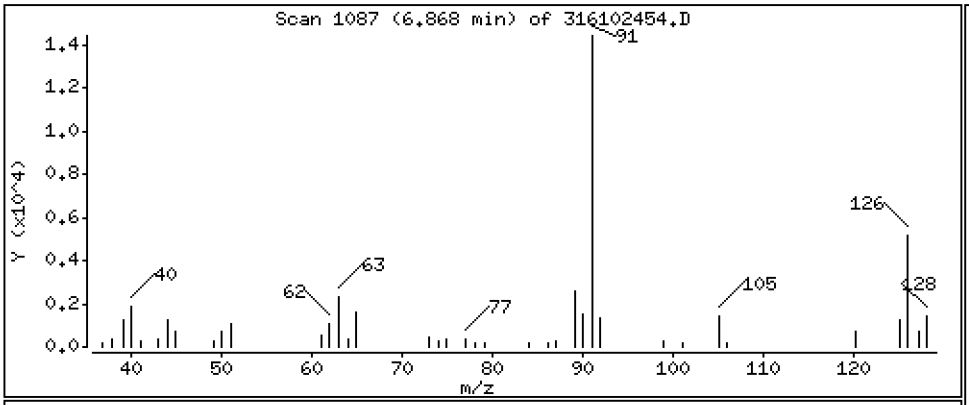
Client ID: Instrument: ms03.i

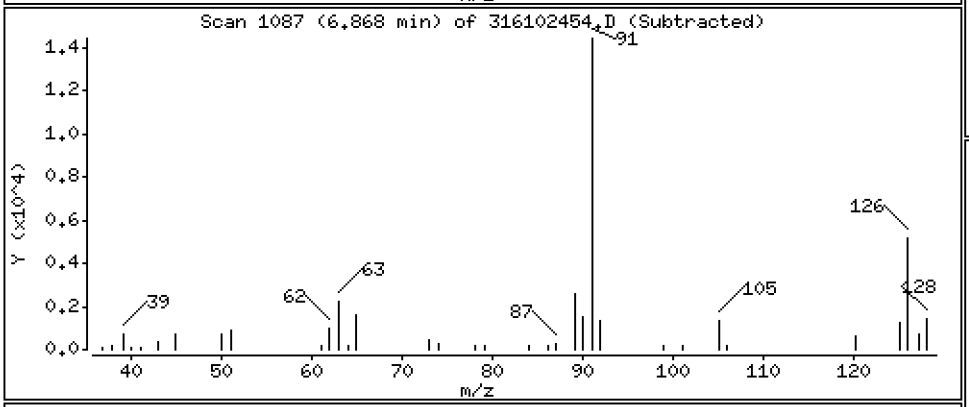
Sample Info: 1234;;1;1;1;;;

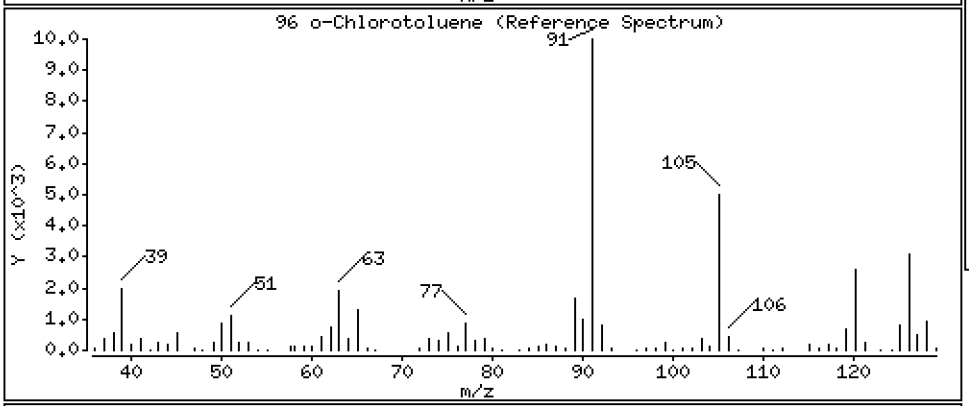
Purge Volume: 5.0 Operator: CJG

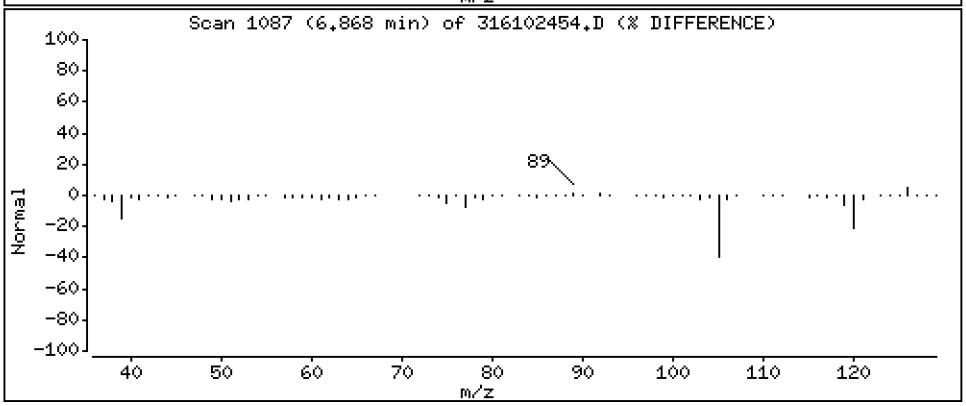
Column phase: DB-VRX Column diameter: 0.25

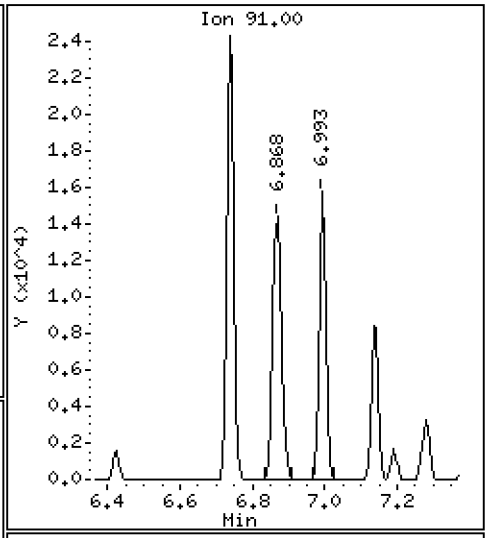
96 o-Chlorotoluene Concentration: 1.04174 ug/L

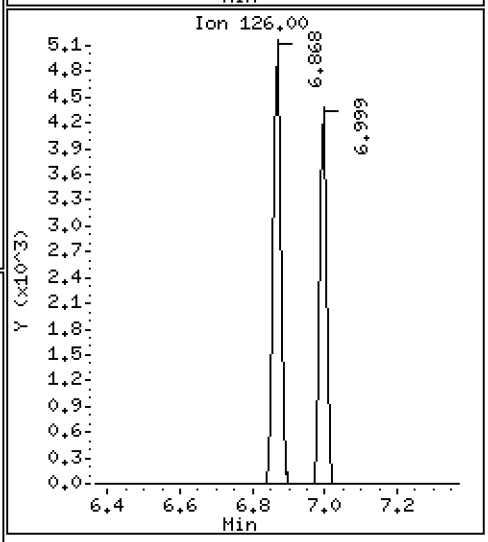












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 99

Date : 24-OCT-2016 23:46

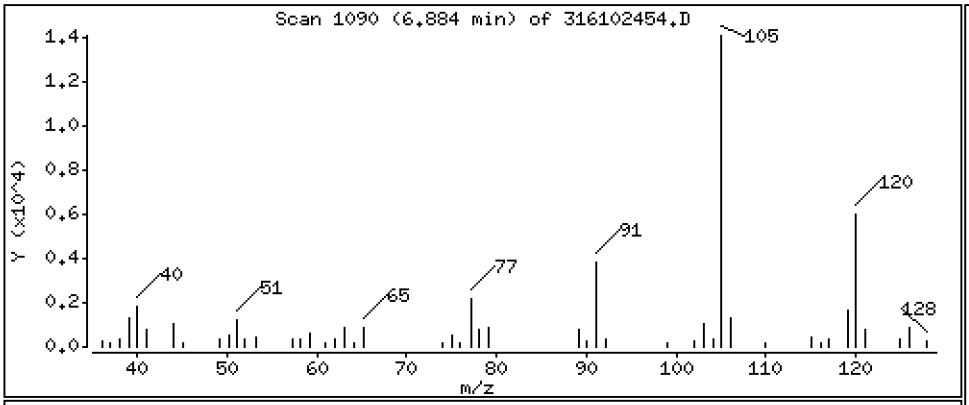
Client ID: Instrument: ms03.i

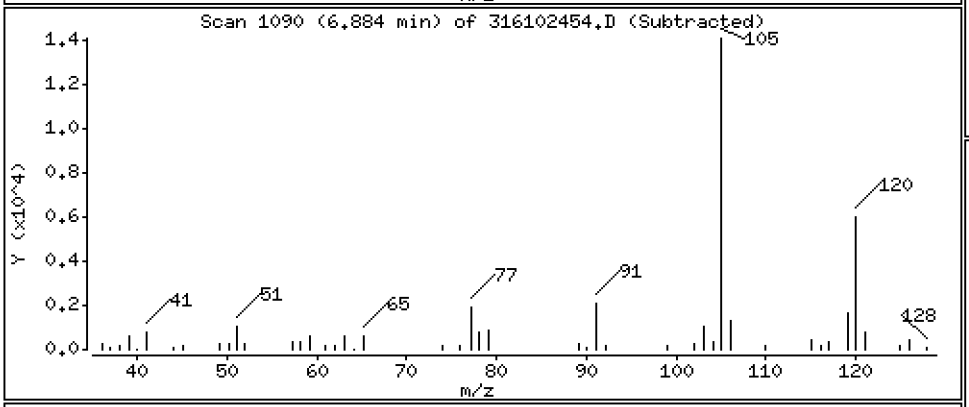
Sample Info: 1234;;1;1;1;;;

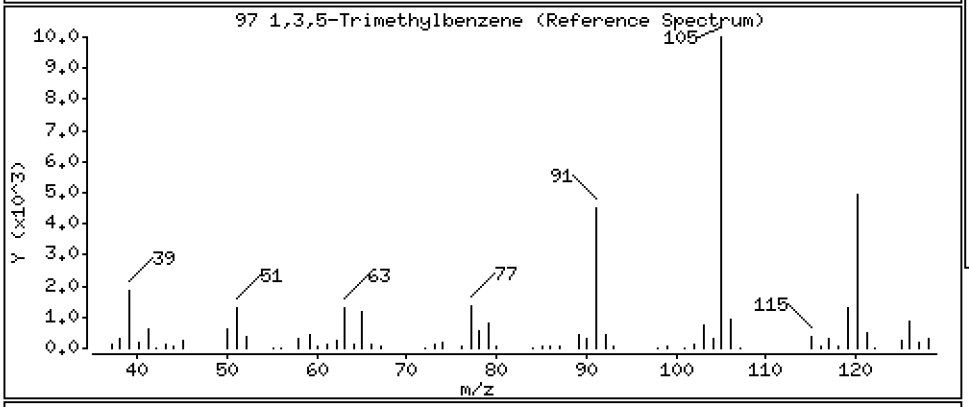
Purge Volume: 5.0 Operator: CJG

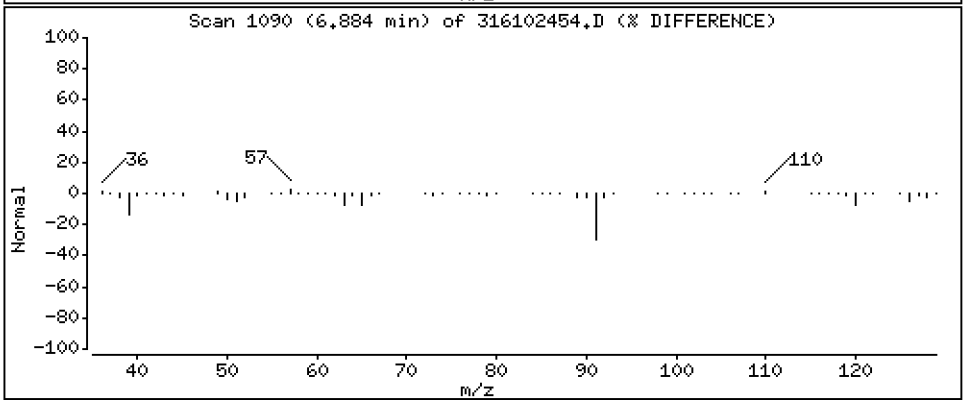
Column phase: DB-VRX Column diameter: 0.25

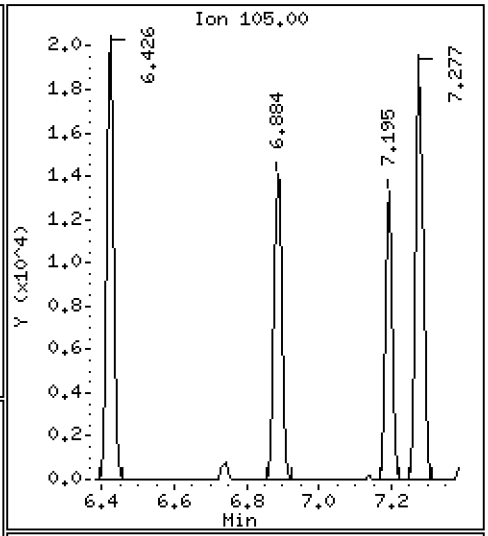
97 1,3,5-Trimethylbenzene Concentration: 0.909183 ug/L

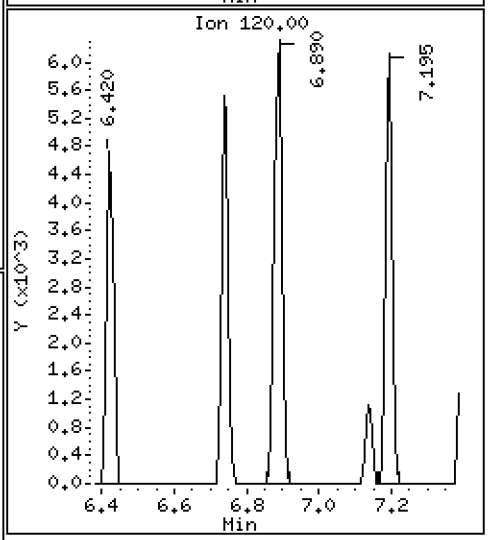












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 100

Date : 24-OCT-2016 23:46

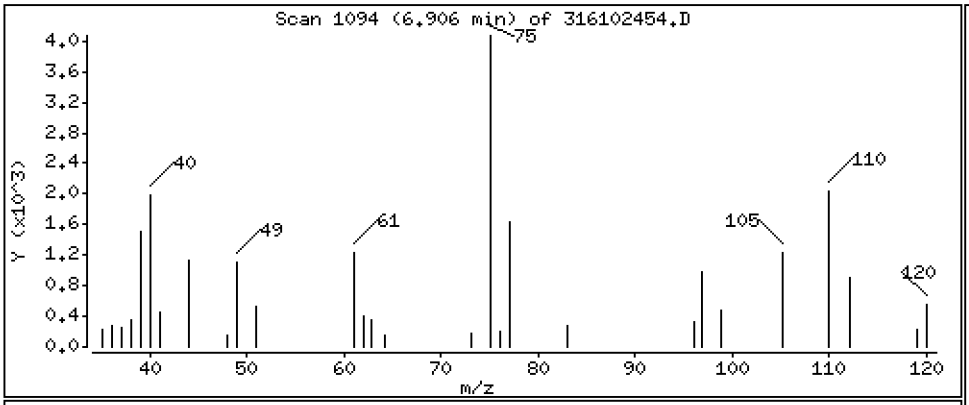
Client ID: Instrument: ms03.i

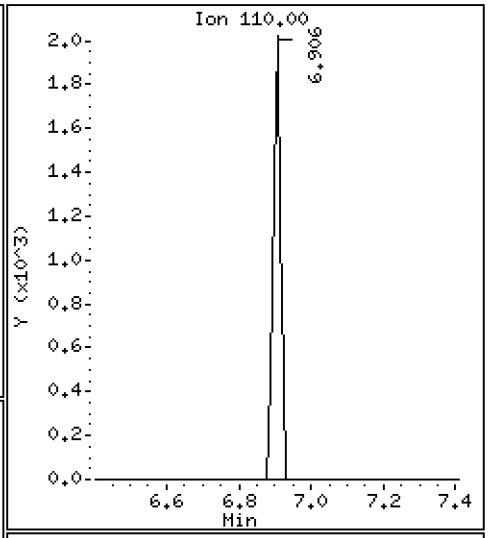
Sample Info: 1234;;1;1;1;;;

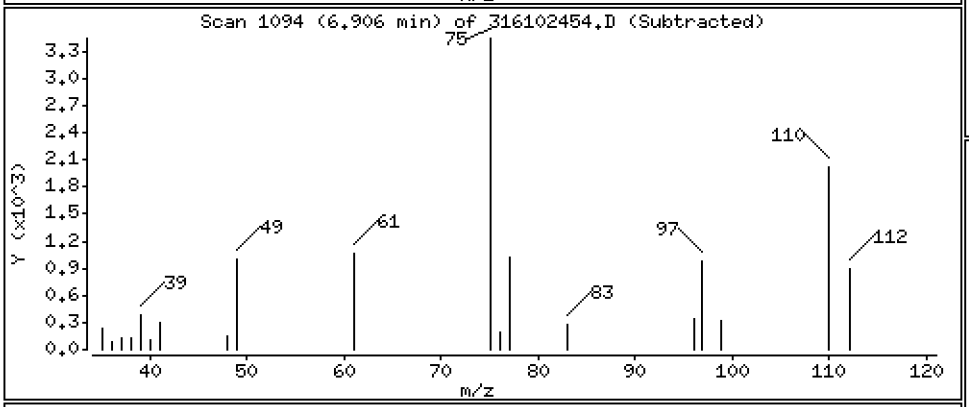
Purge Volume: 5.0 Operator: CJG

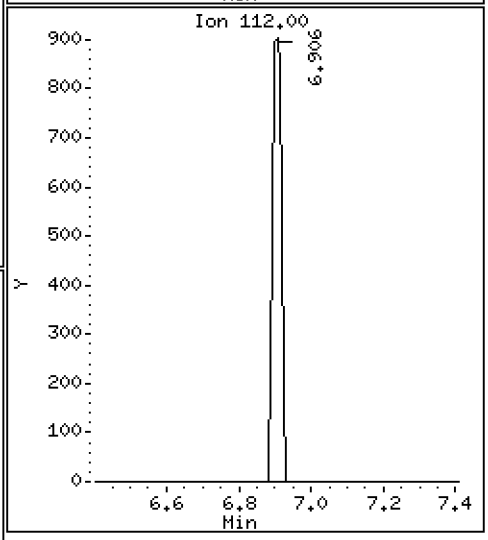
Column phase: DB-VRX Column diameter: 0.25

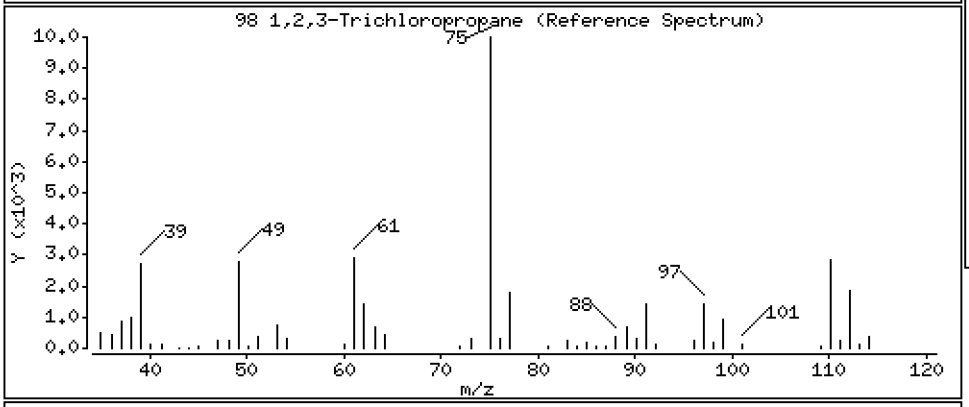
98 1,2,3-Trichloropropane Concentration: 1.29728 ug/L

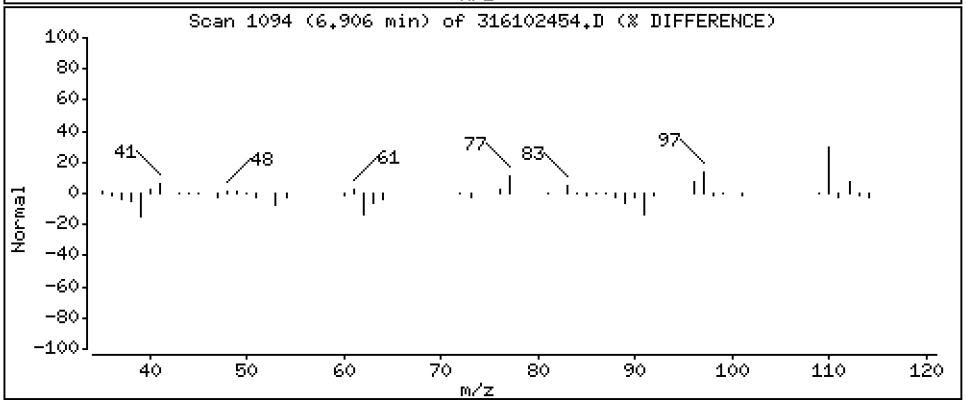












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 101

Date : 24-OCT-2016 23:46

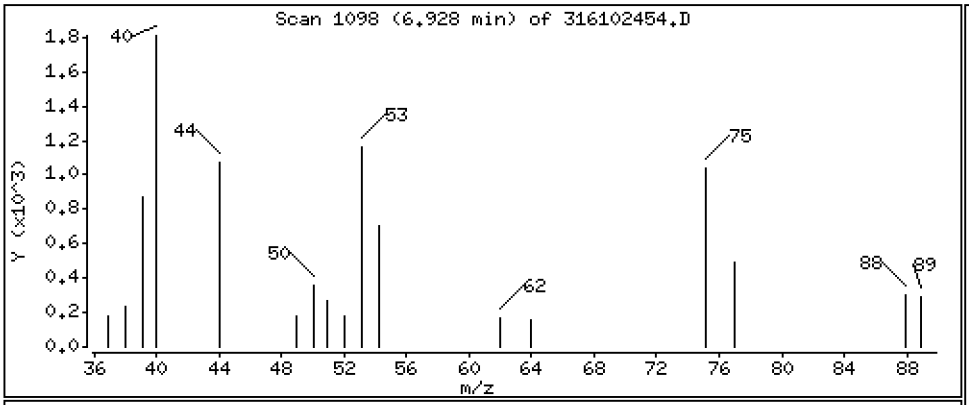
Client ID: Instrument: ms03.i

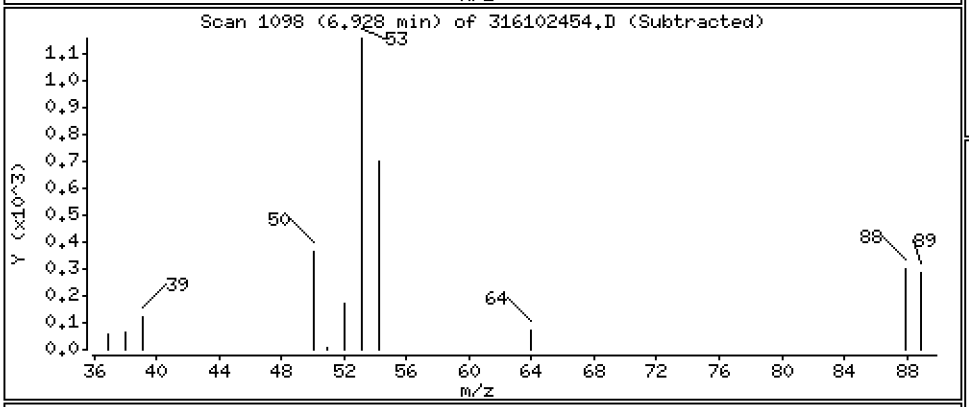
Sample Info: 1234;;1;1;1;;;

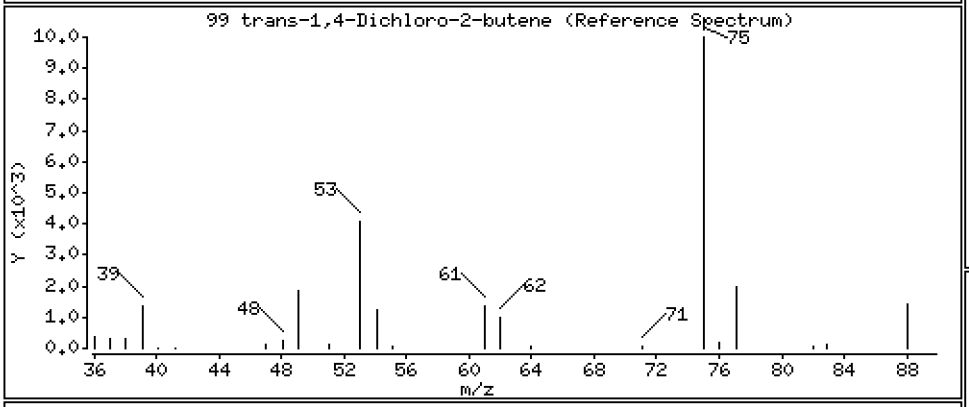
Purge Volume: 5.0 Operator: CJG

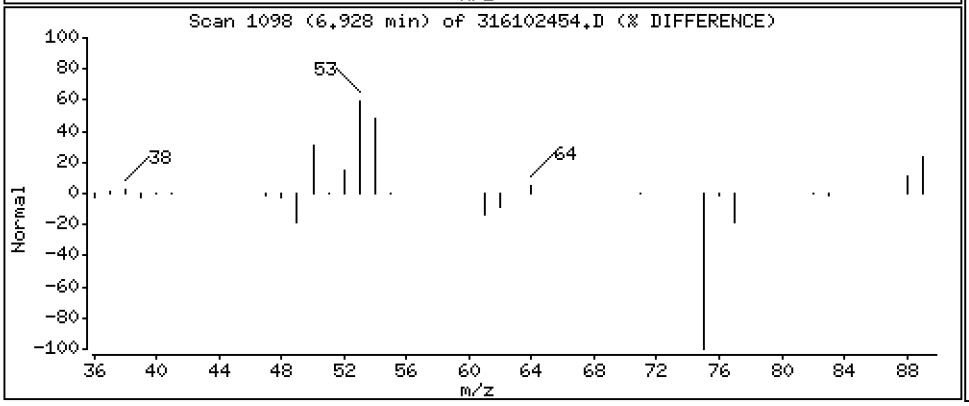
Column phase: DB-VRX Column diameter: 0.25

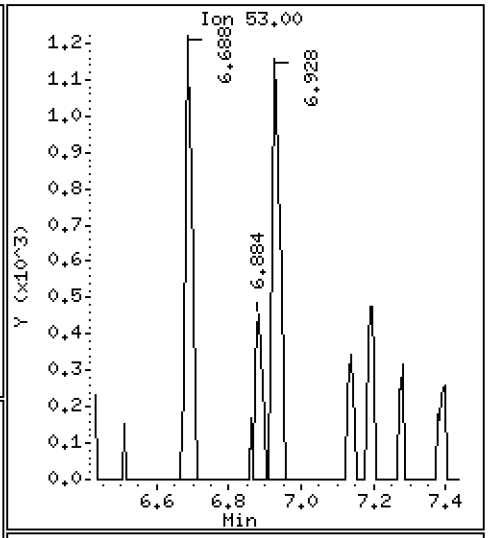
99 trans-1,4-Dichloro-2-butene Concentration: 0.895508 ug/L

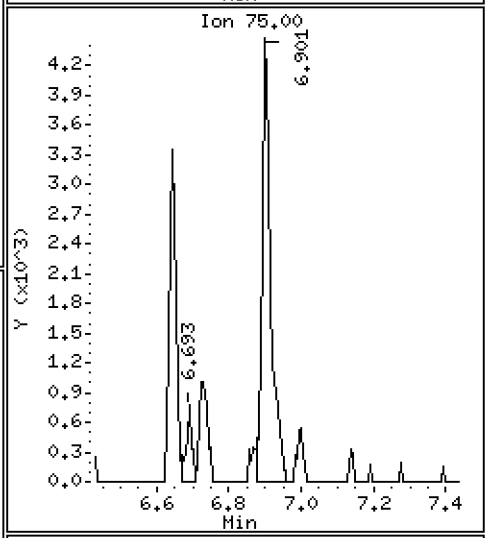


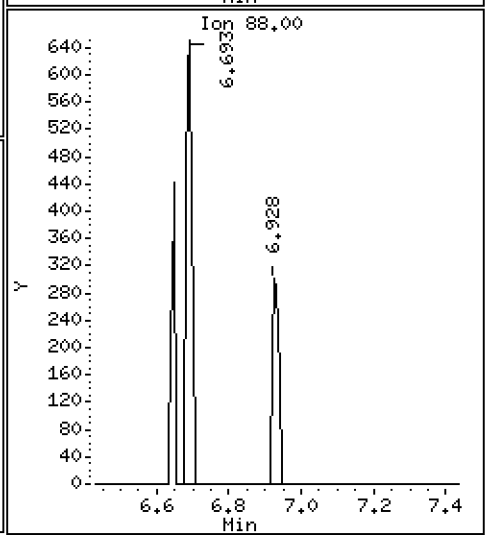












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 102

Date : 24-OCT-2016 23:46

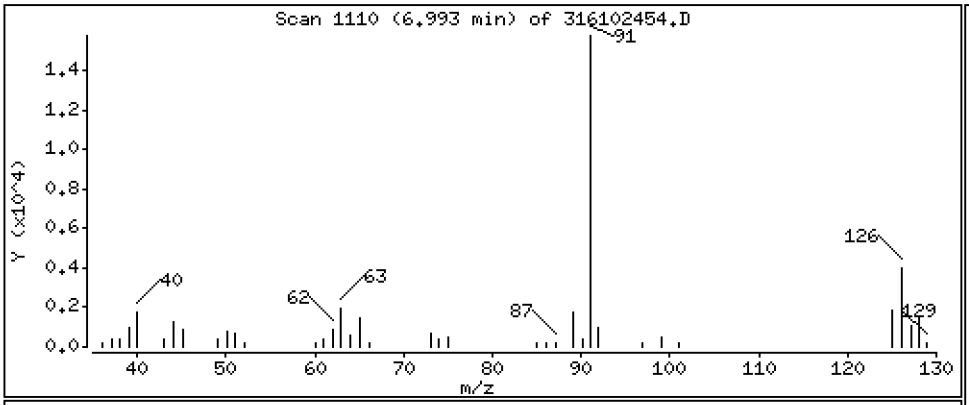
Client ID: Instrument: ms03.i

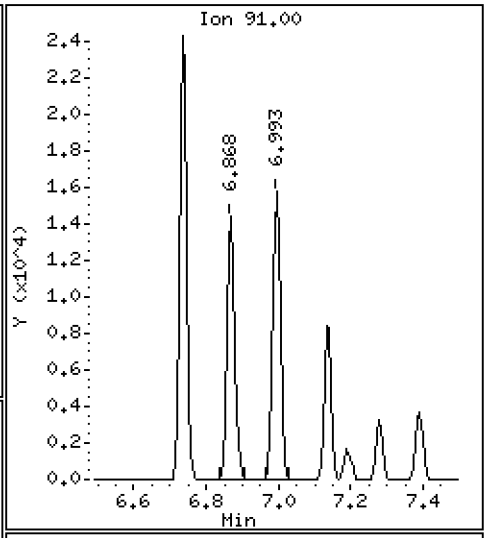
Sample Info: 1234;;1;1;1;;;

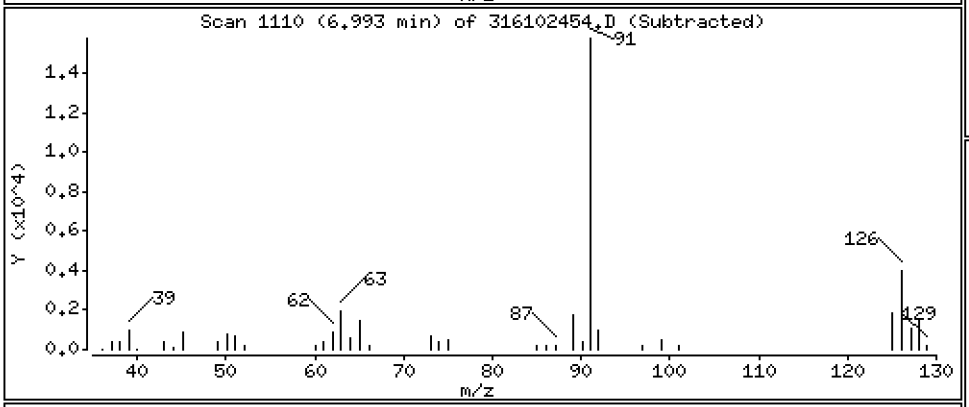
Purge Volume: 5.0 Operator: CJG

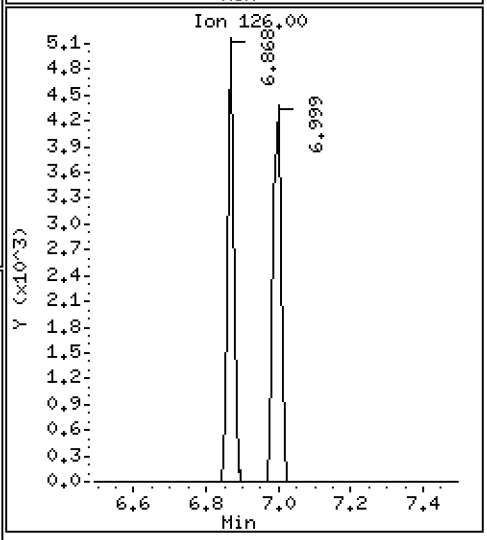
Column phase: DB-VRX Column diameter: 0.25

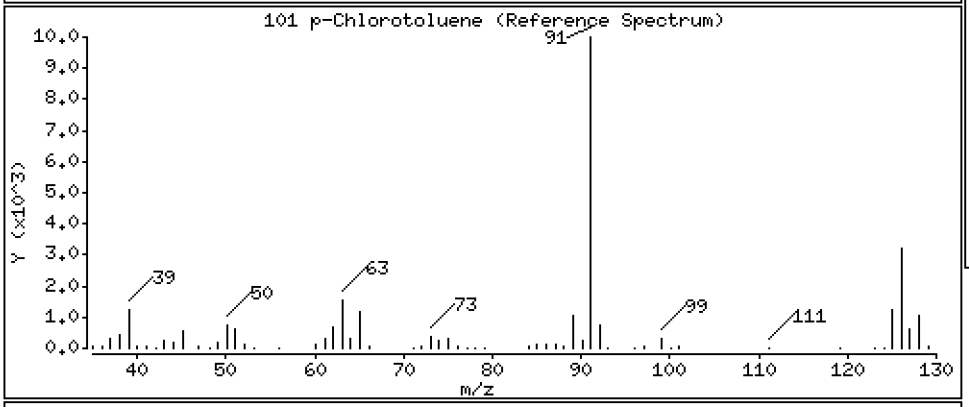
101 p-Chlorotoluene Concentration: 1.05903 ug/L

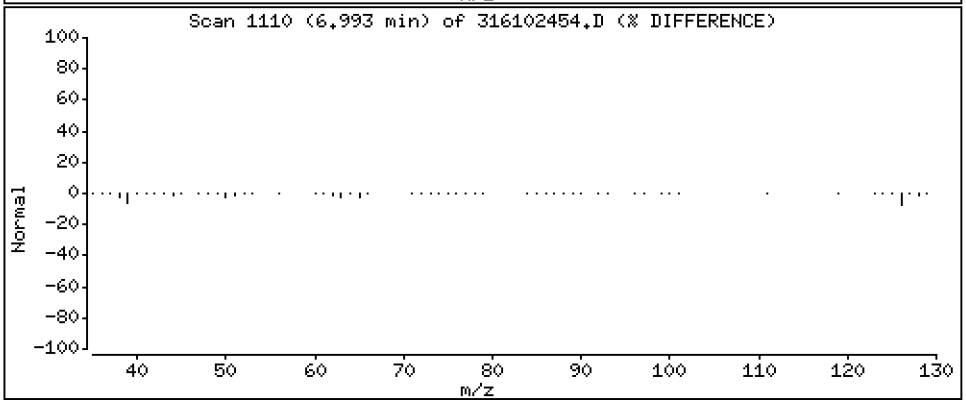












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 103

Date : 24-OCT-2016 23:46

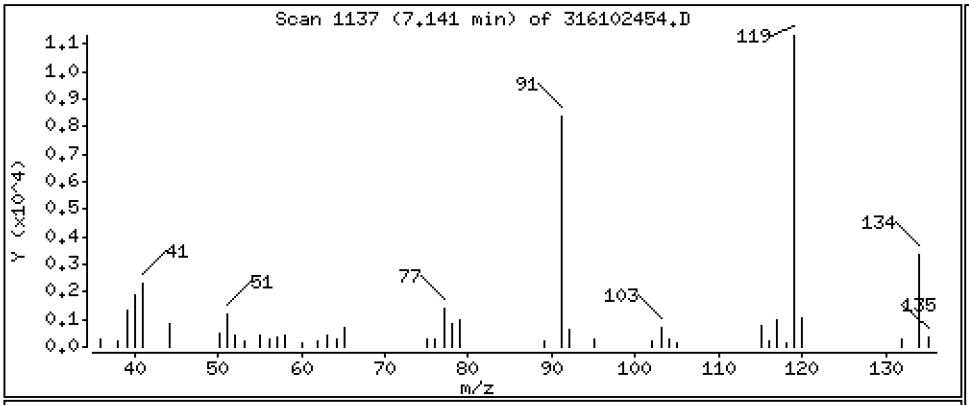
Client ID: Instrument: ms03.i

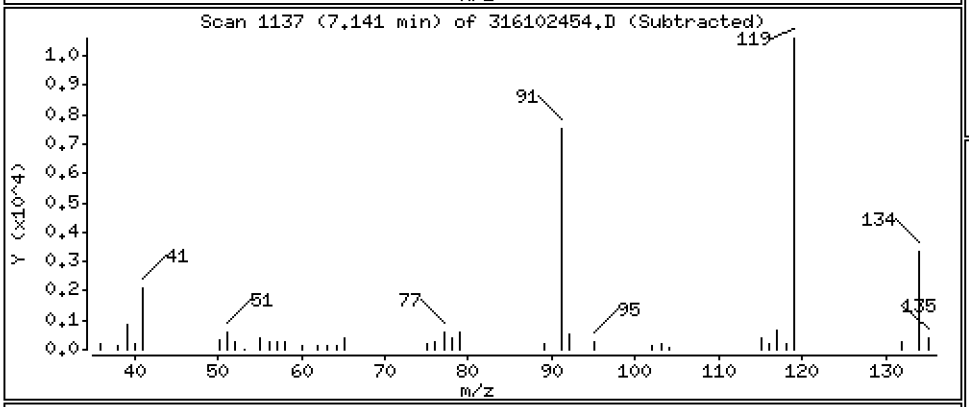
Sample Info: 1234;;1;1;1;;;

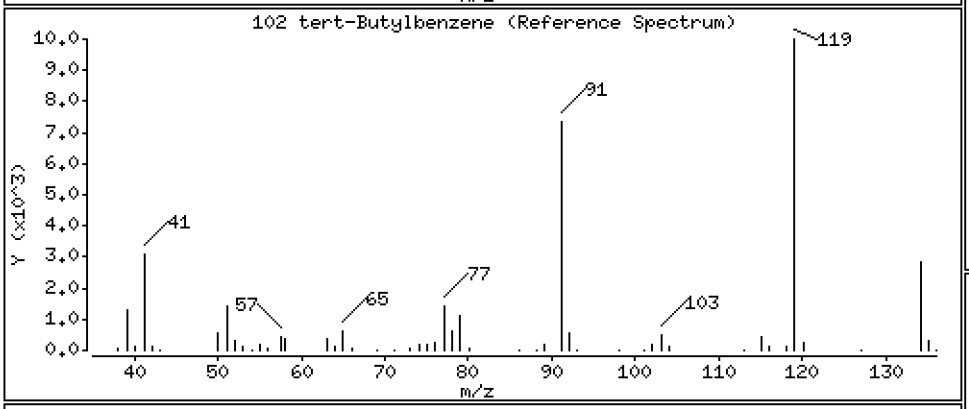
Purge Volume: 5.0 Operator: CJG

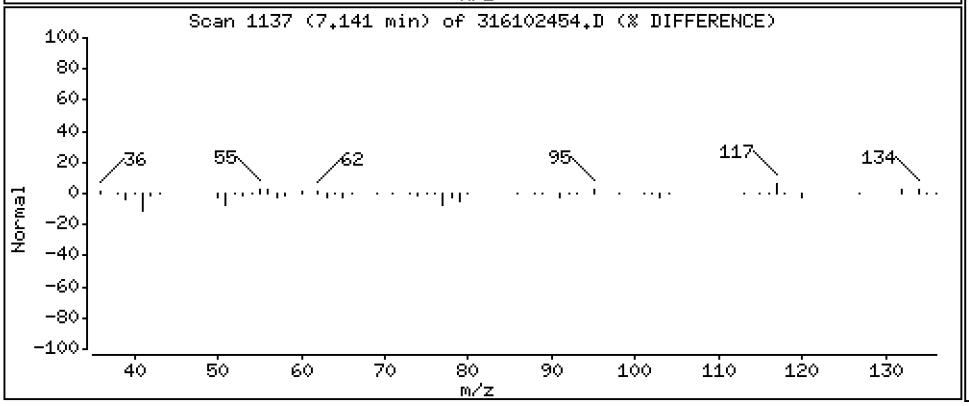
Column phase: DB-VRX Column diameter: 0.25

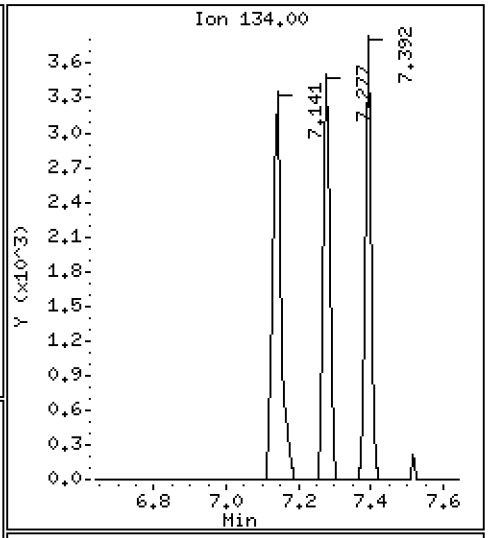
102 tert-Butylbenzene Concentration: 1.07524 ug/L

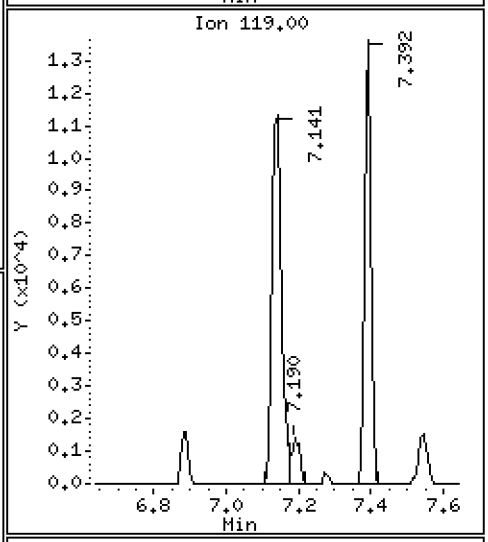


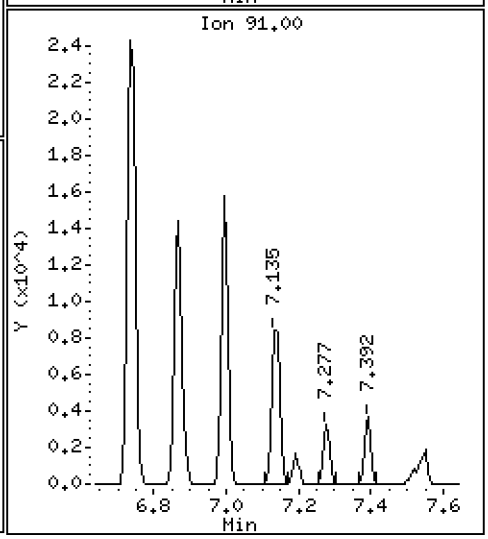












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 104

Date : 24-OCT-2016 23:46

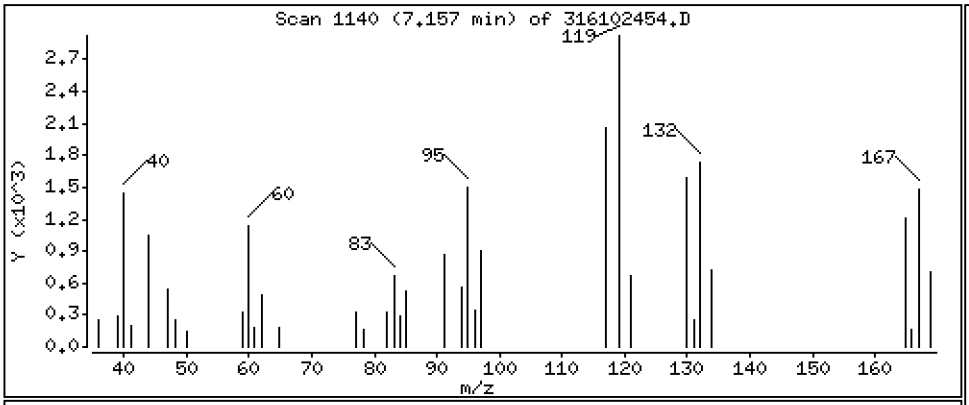
Client ID: Instrument: ms03.i

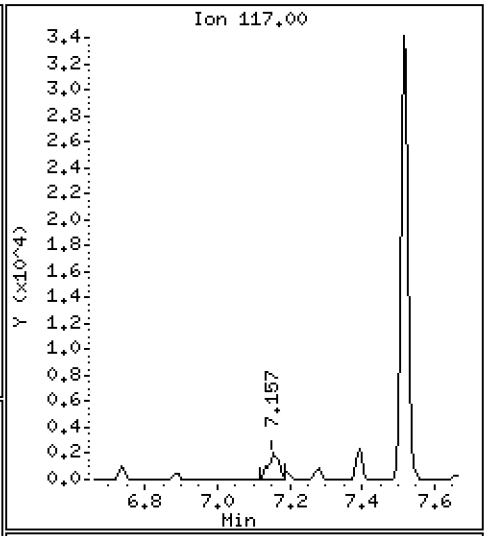
Sample Info: 1234;;1;1;1;;;

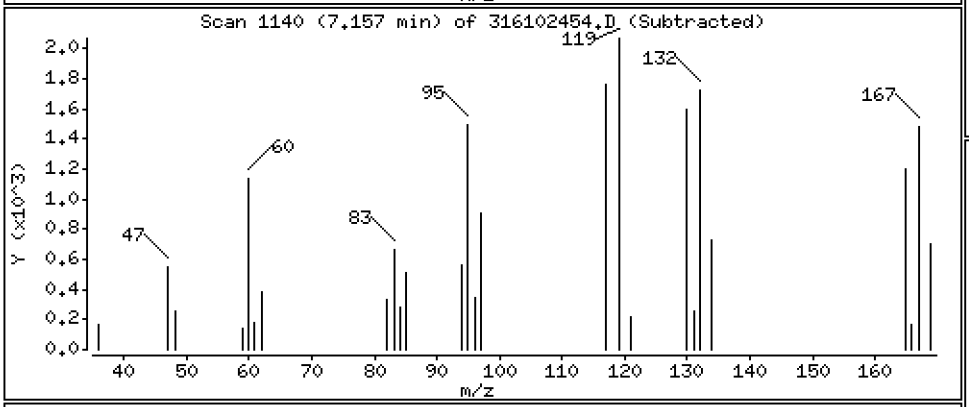
Purge Volume: 5.0 Operator: CJG

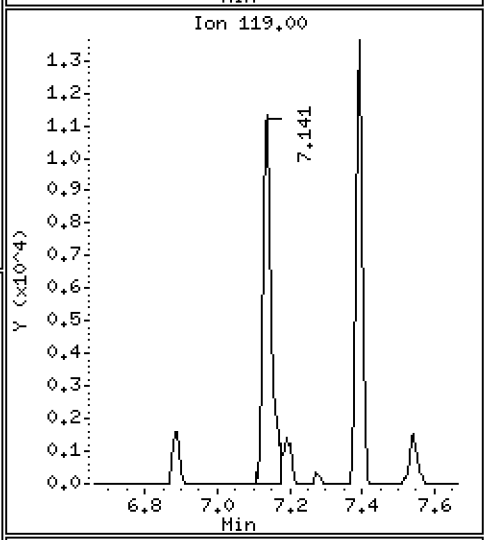
Column phase: DB-VRX Column diameter: 0.25

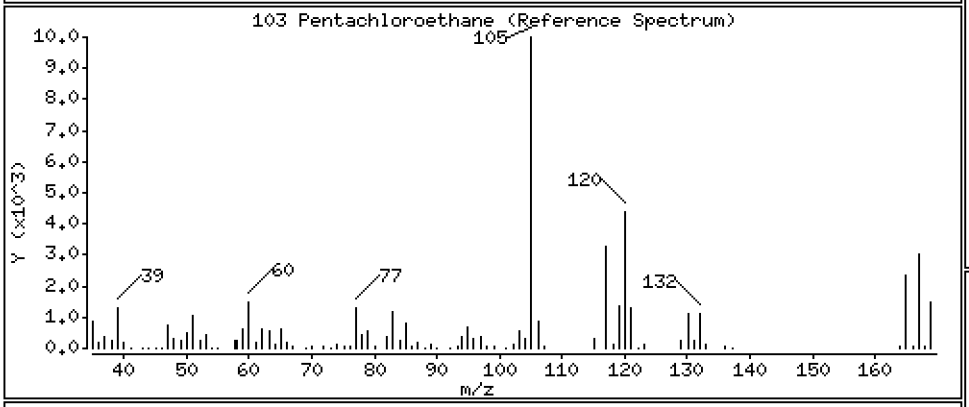
103 Pentachloroethane Concentration: 1.04802 ug/L

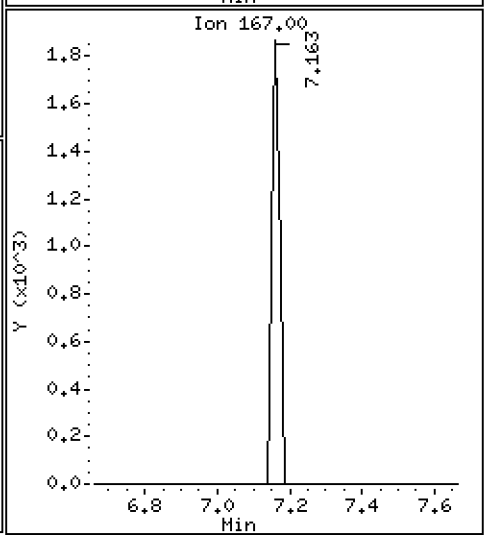


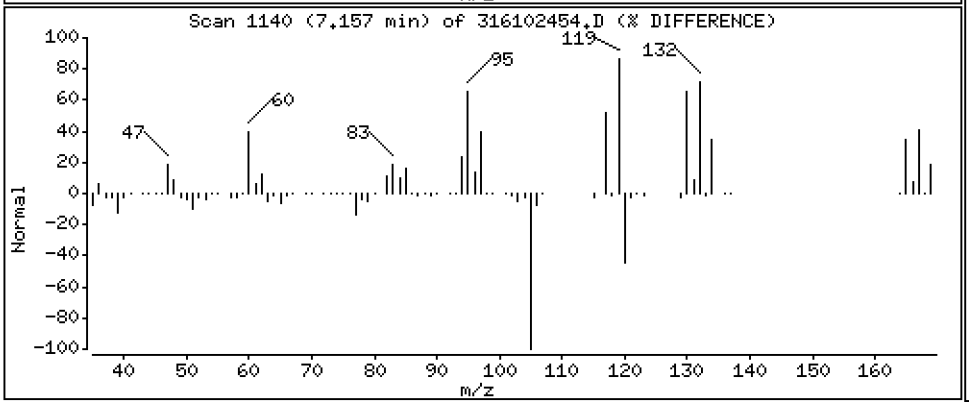












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 105

Date : 24-OCT-2016 23:46

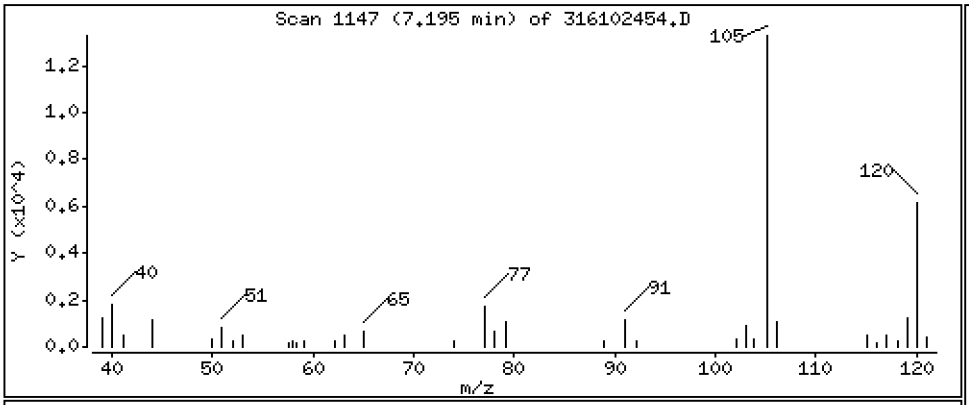
Client ID: Instrument: ms03.i

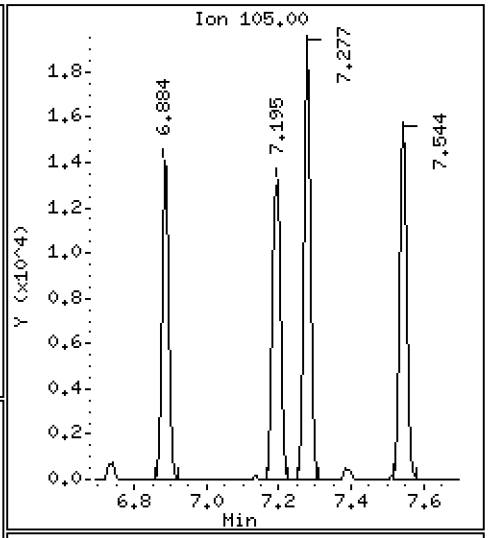
Sample Info: 1234;;1;1;1;;;

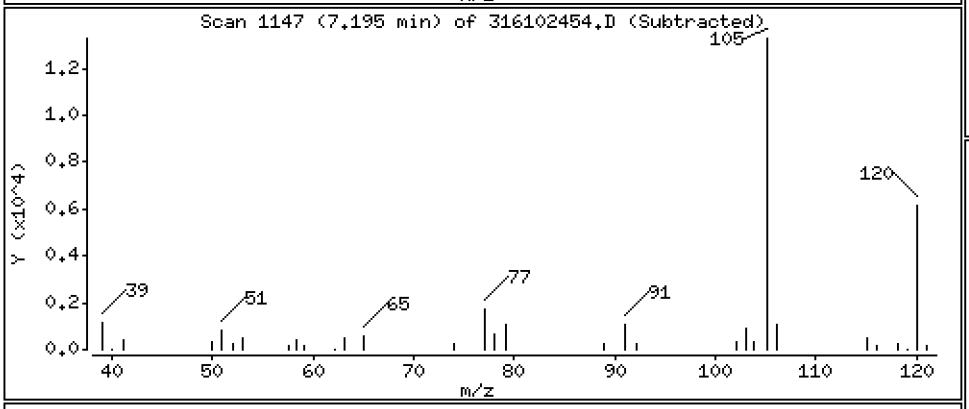
Purge Volume: 5.0 Operator: CJG

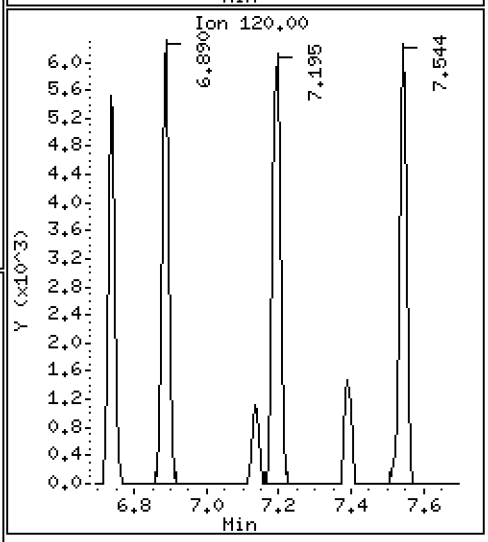
Column phase: DB-VRX Column diameter: 0.25

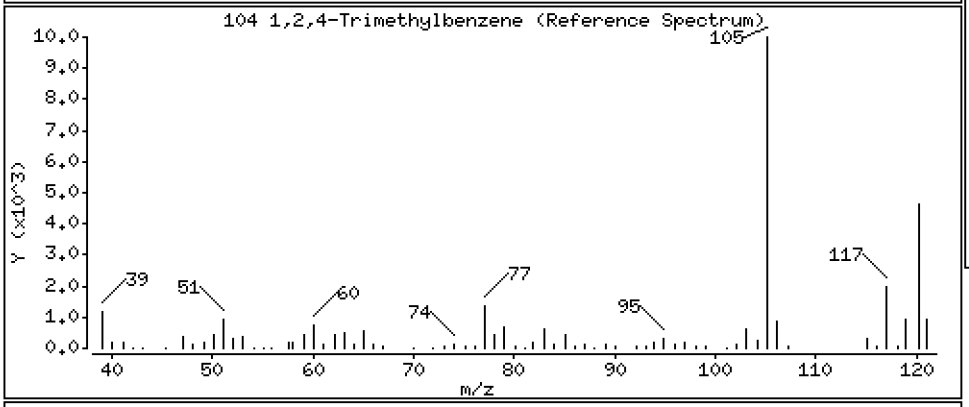
104 1,2,4-Trimethylbenzene Concentration: 0.875311 ug/L

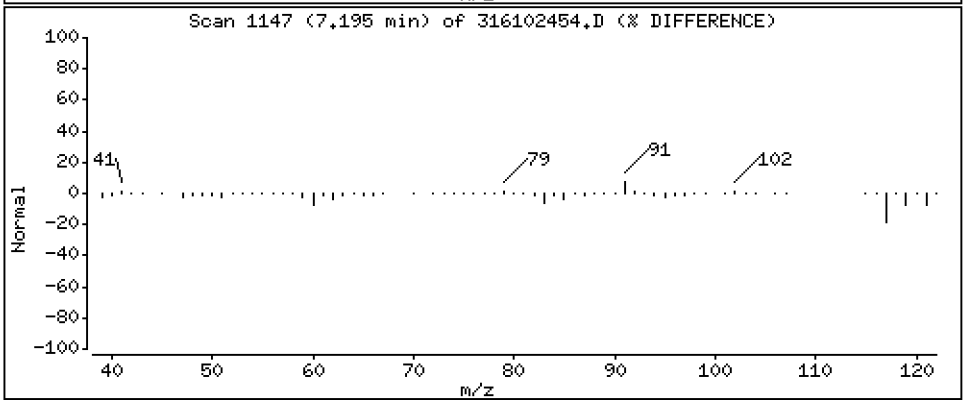












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 106

Date : 24-OCT-2016 23:46

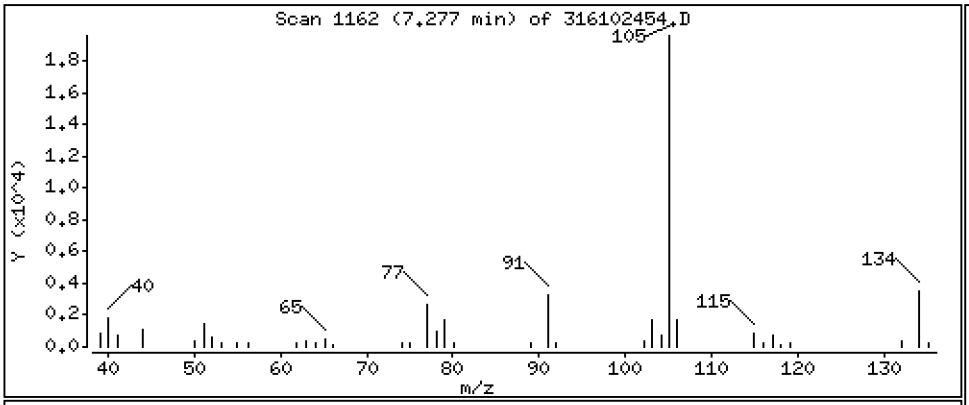
Client ID: Instrument: ms03.i

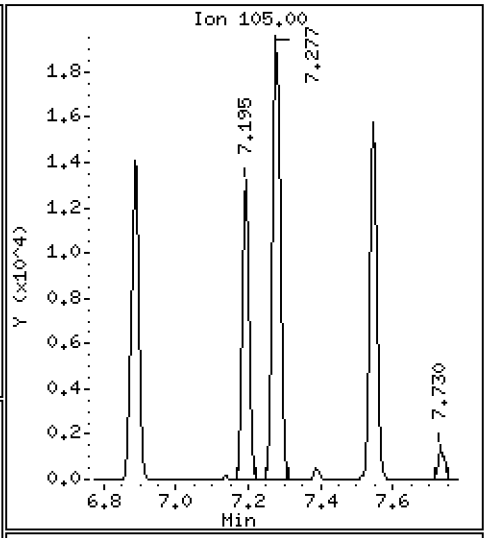
Sample Info: 1234;;1;1;1;;;

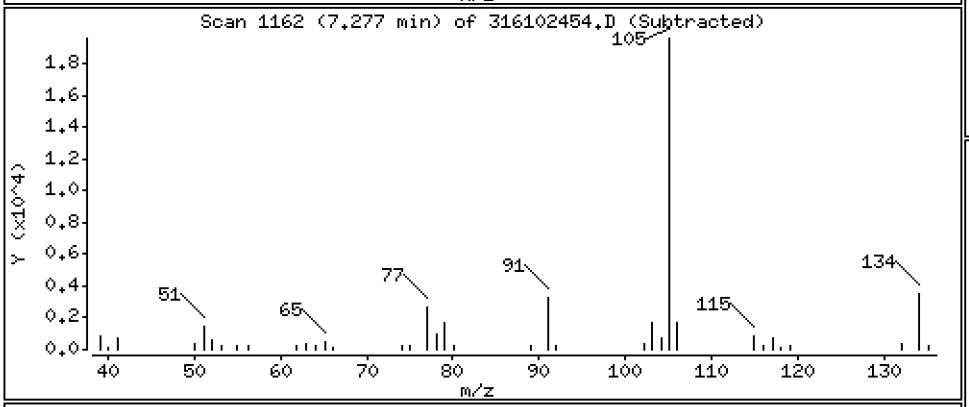
Purge Volume: 5.0 Operator: CJG

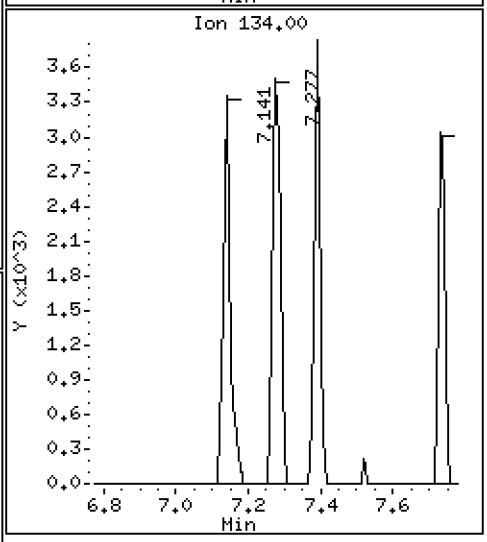
Column phase: DB-VRX Column diameter: 0.25

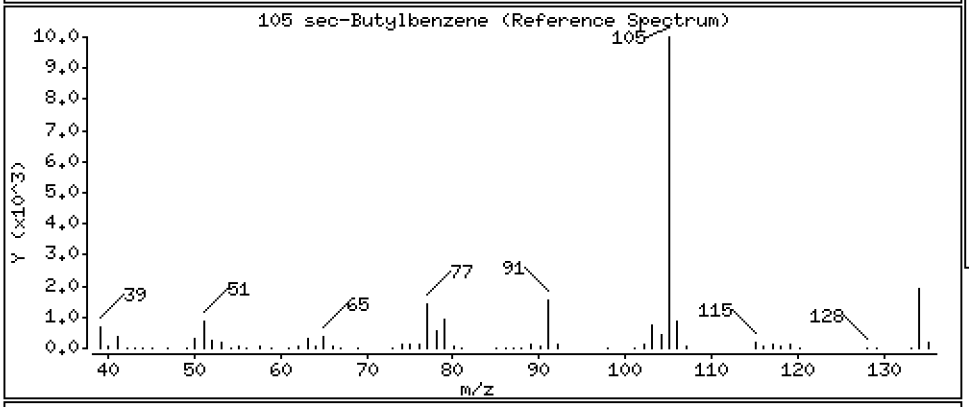
105 sec-Butylbenzene Concentration: 1.00797 ug/L

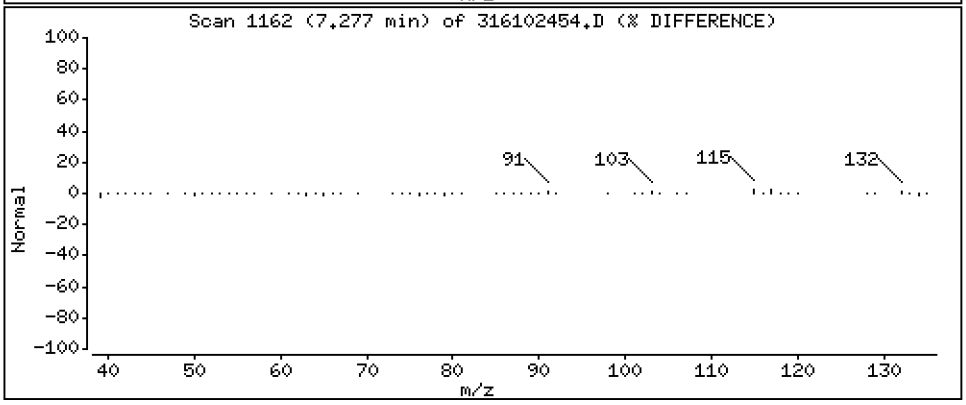












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 107

Date : 24-OCT-2016 23:46

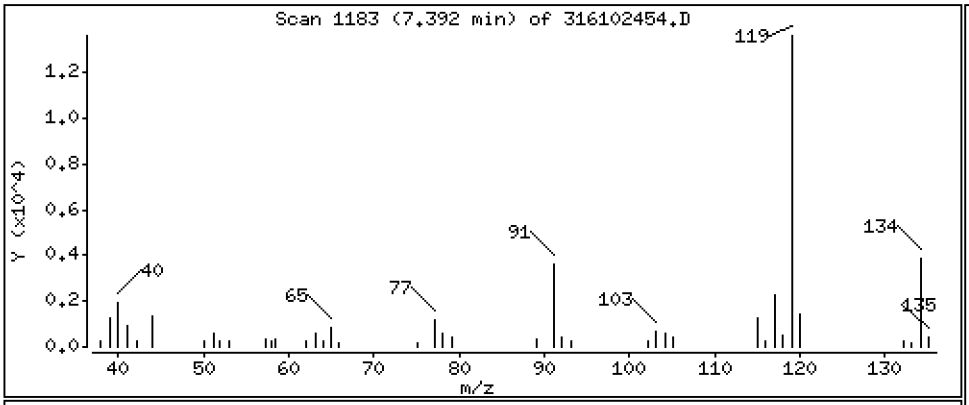
Client ID: Instrument: ms03.i

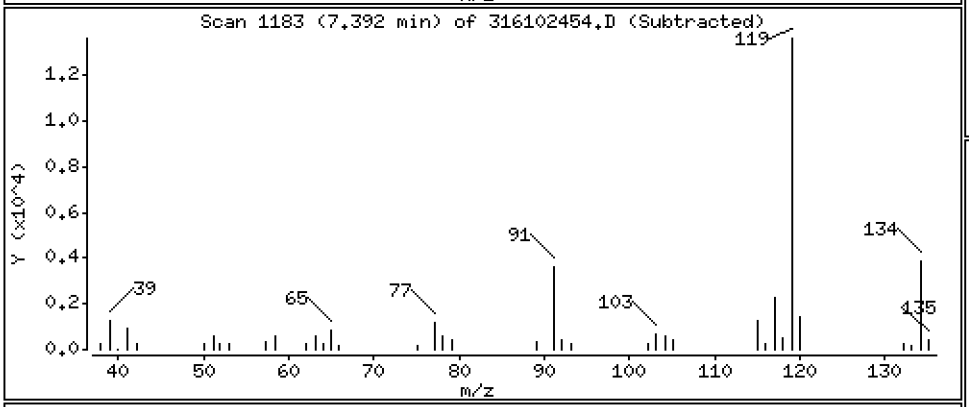
Sample Info: 1234;;1;1;1;;;

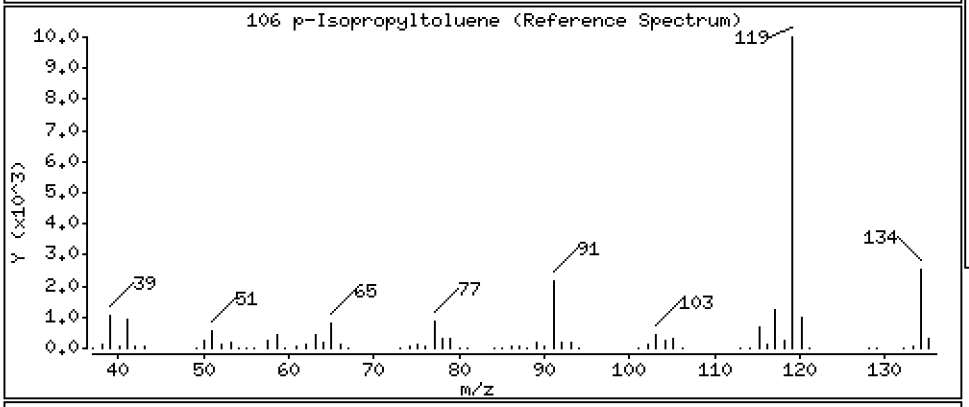
Purge Volume: 5.0 Operator: CJG

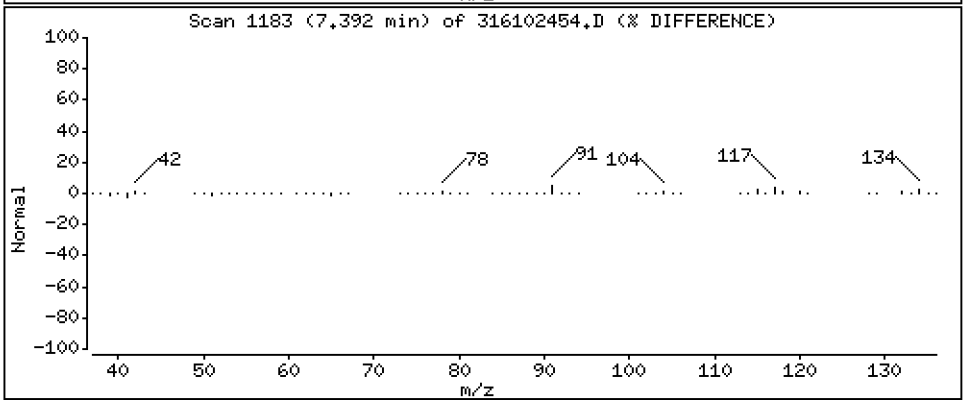
Column phase: DB-VRX Column diameter: 0.25

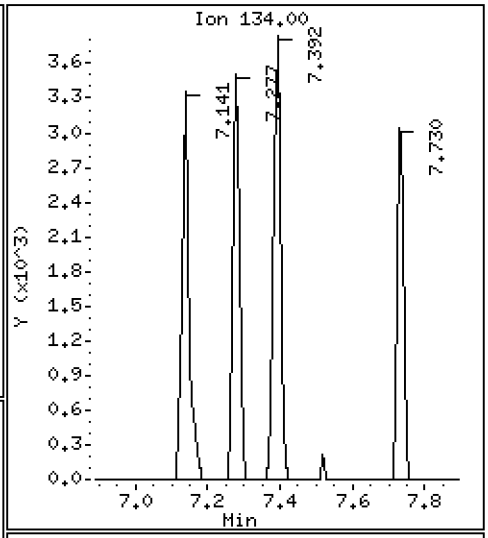
106 p-Isopropyltoluene Concentration: 0.916838 ug/L

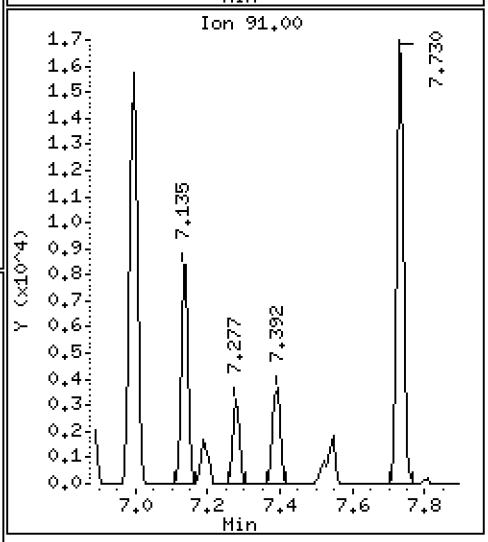












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 108

Date : 24-OCT-2016 23:46

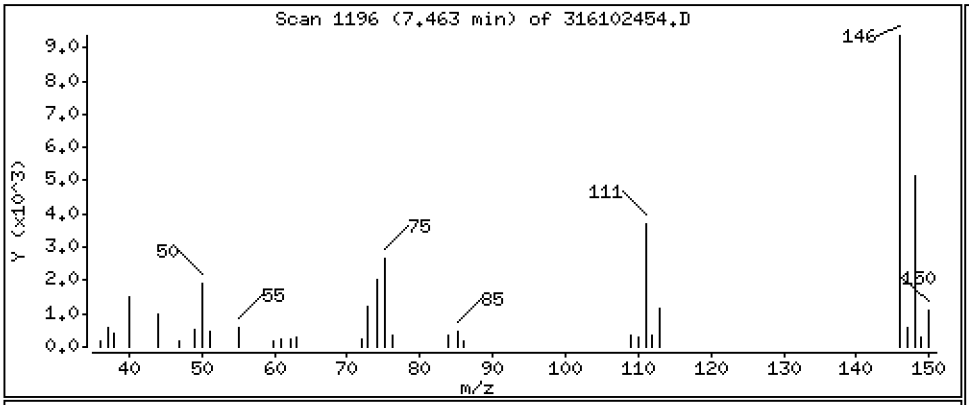
Client ID: Instrument: ms03.i

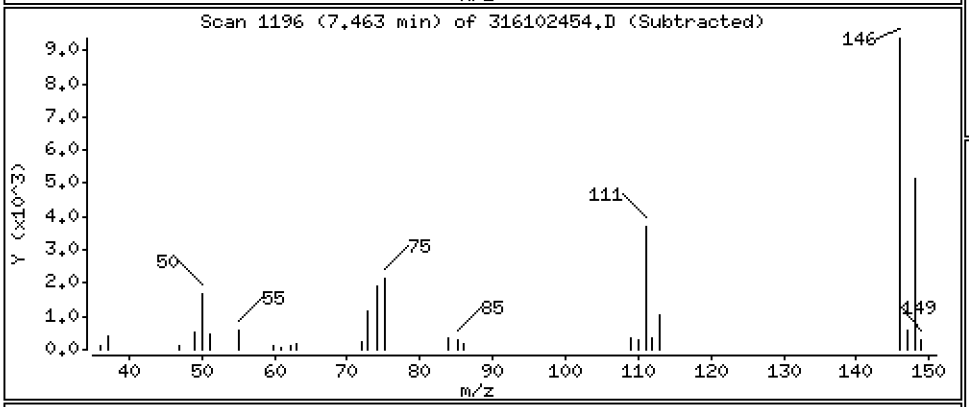
Sample Info: 1234;;1;1;1;;;

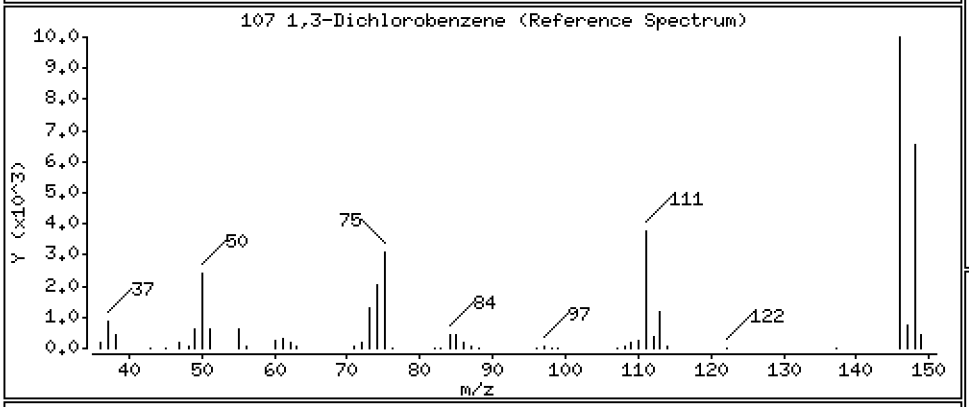
Purge Volume: 5.0 Operator: CJG

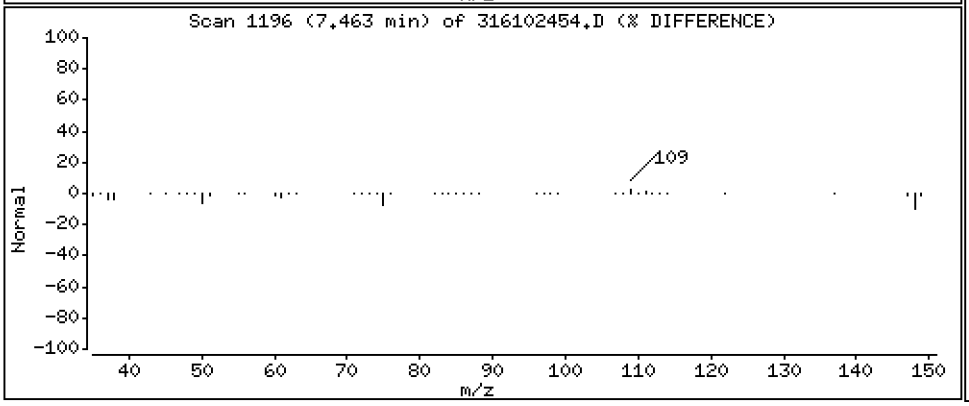
Column phase: DB-VRX Column diameter: 0.25

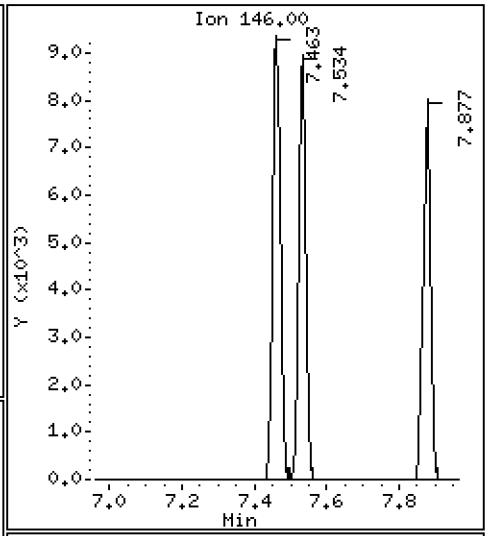
107 1,3-Dichlorobenzene Concentration: 1.24143 ug/L

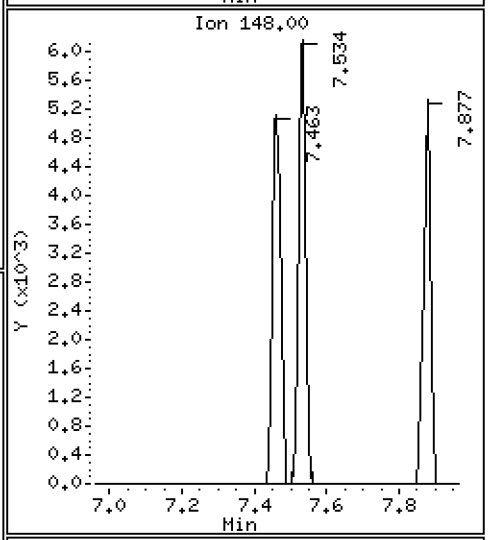


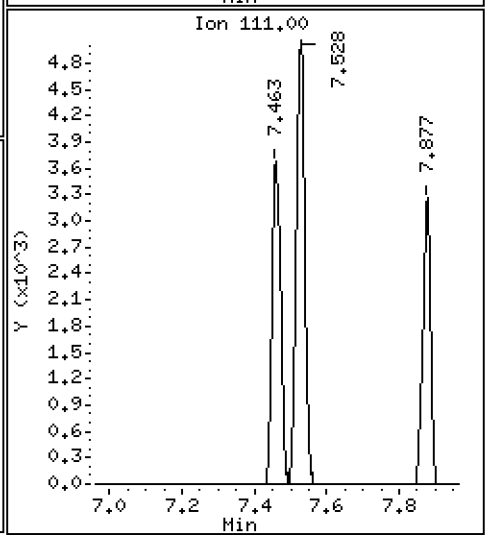












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 109

Date : 24-OCT-2016 23:46

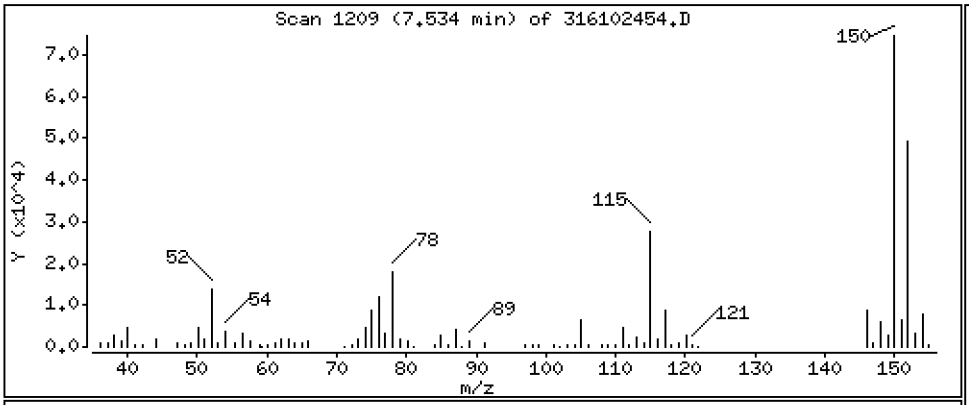
Client ID: Instrument: ms03.i

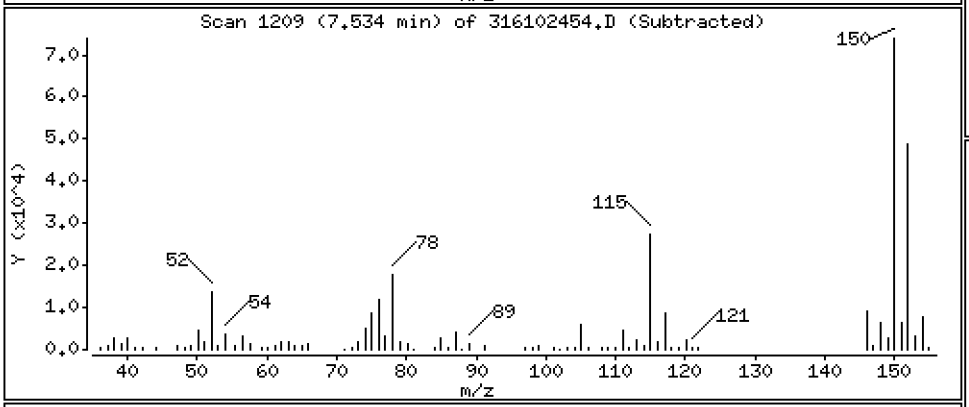
Sample Info: 1234;;1;1;1;;;

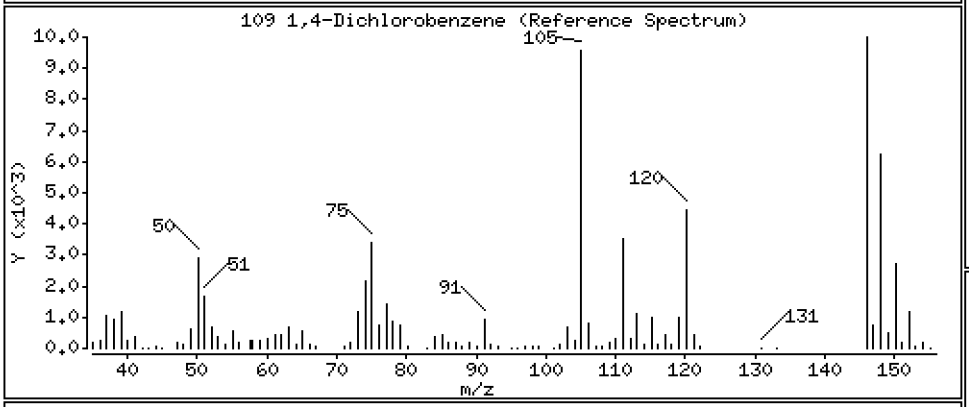
Purge Volume: 5.0 Operator: CJG

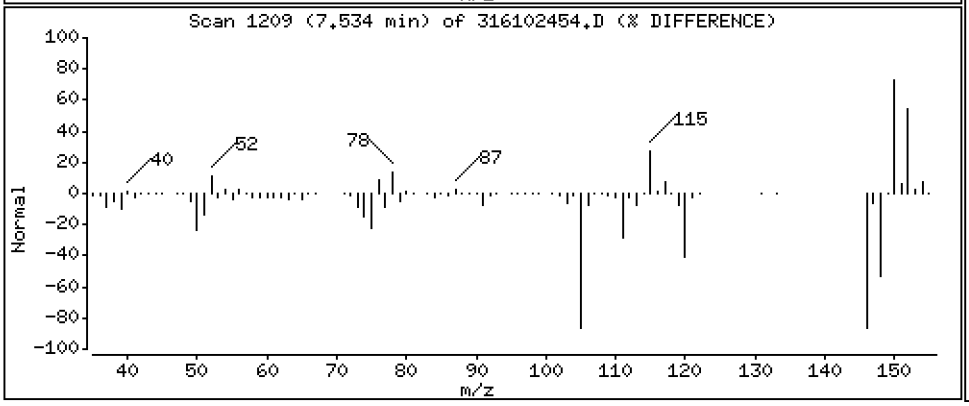
Column phase: DB-VRX Column diameter: 0.25

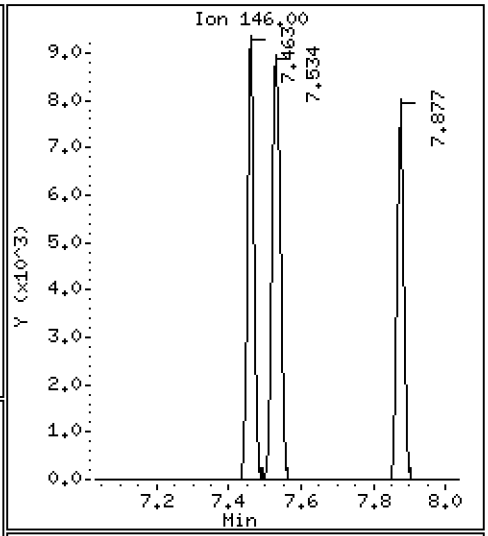
109 1,4-Dichlorobenzene Concentration: 1.29832 ug/L

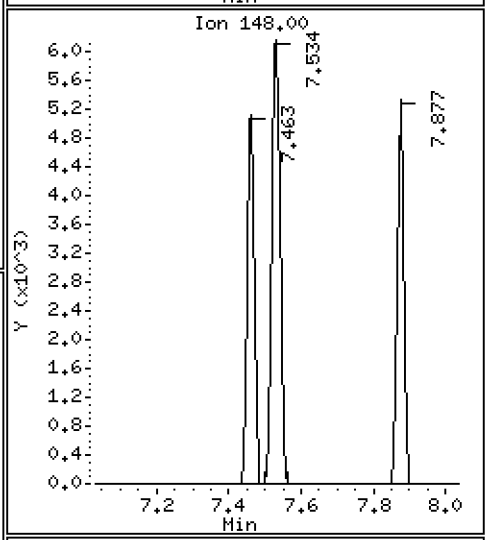


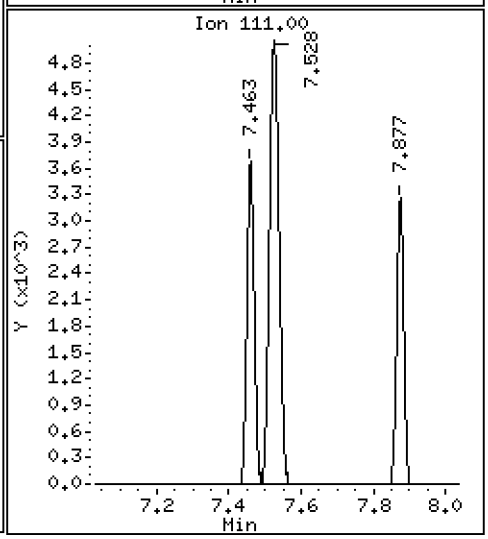












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 110

Date : 24-OCT-2016 23:46

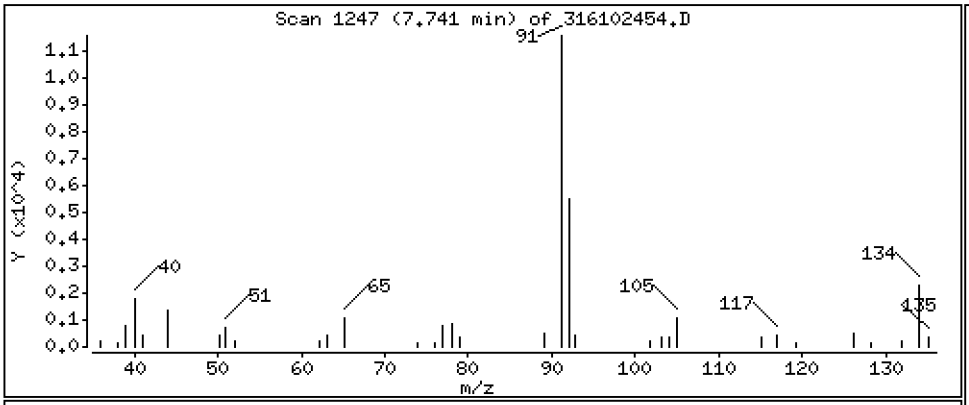
Client ID: Instrument: ms03.i

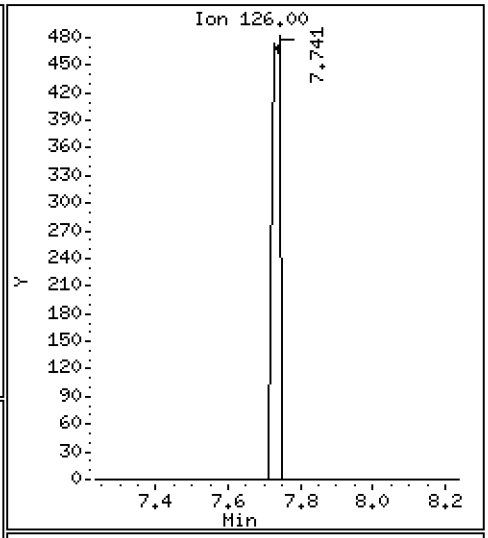
Sample Info: 1234;;1;1;1;;;

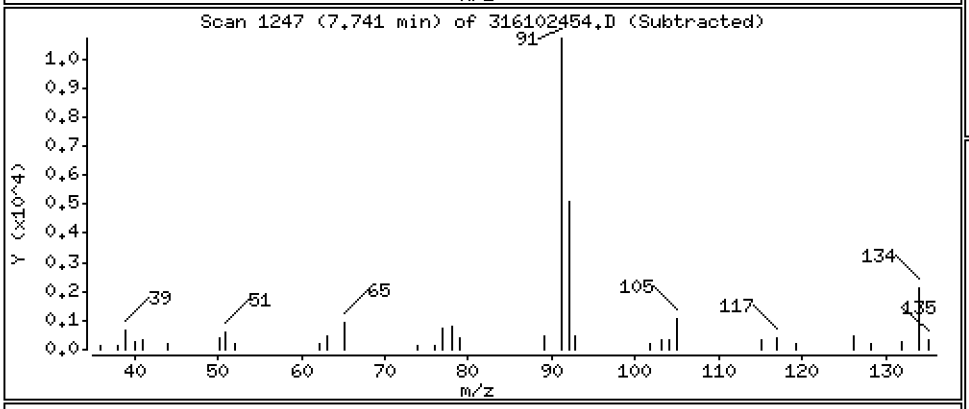
Purge Volume: 5.0 Operator: CJG

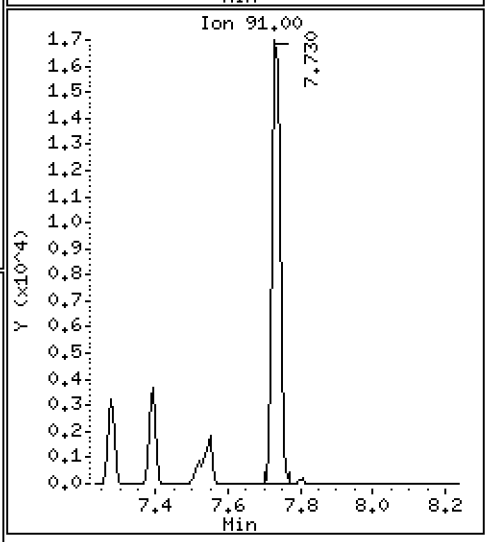
Column phase: DB-VRX Column diameter: 0.25

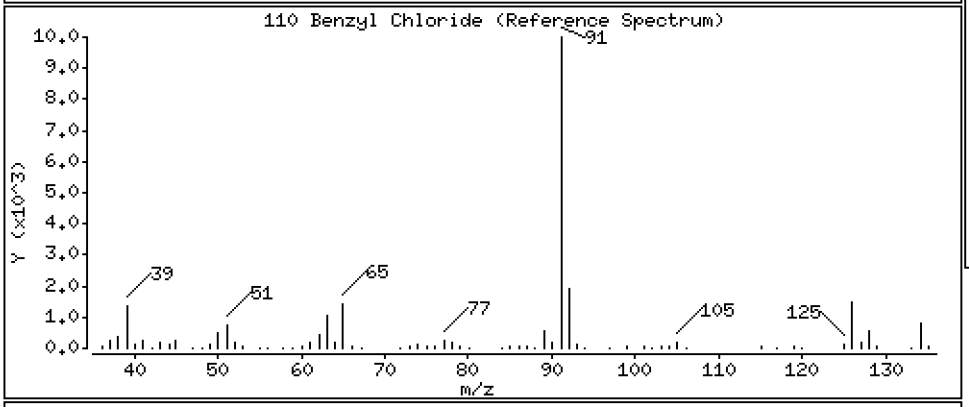
110 Benzyl Chloride Concentration: 0.547489 ug/L

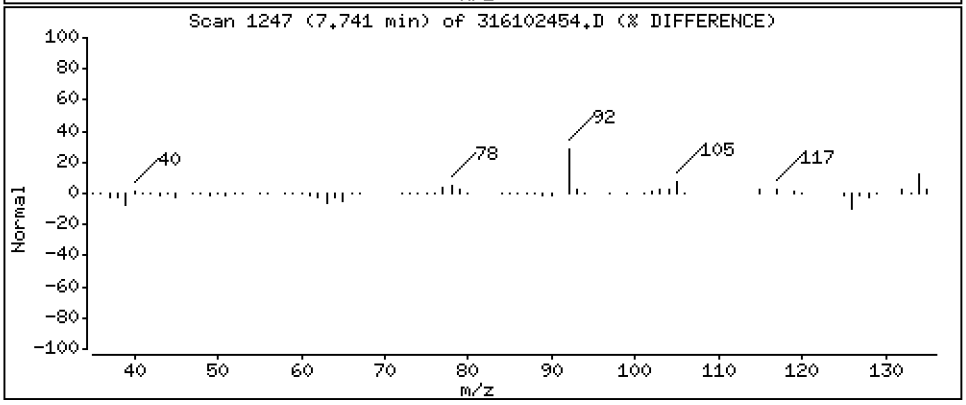












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 111

Date : 24-OCT-2016 23:46

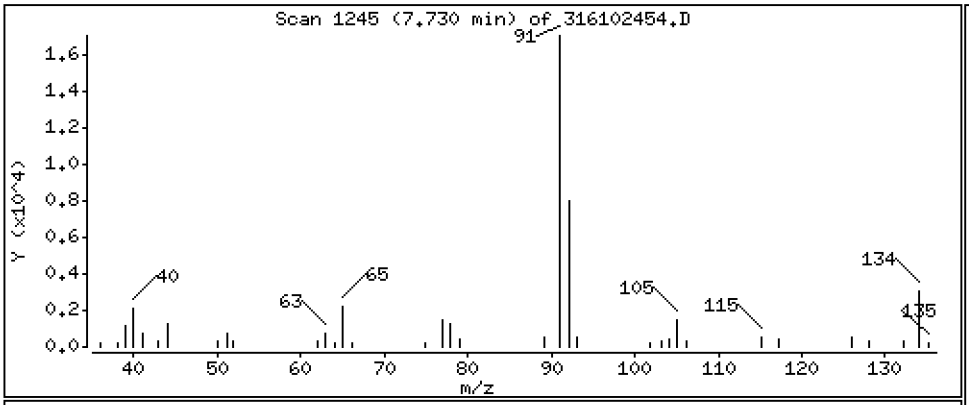
Client ID: Instrument: ms03.i

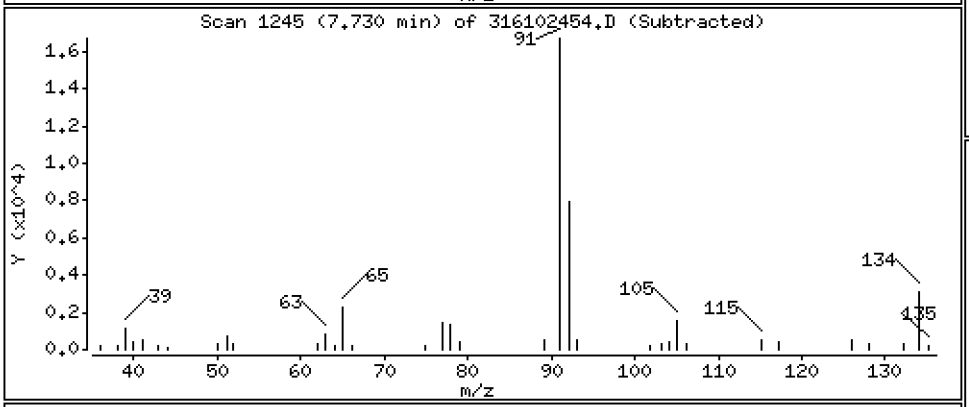
Sample Info: 1234;;1;1;1;;;

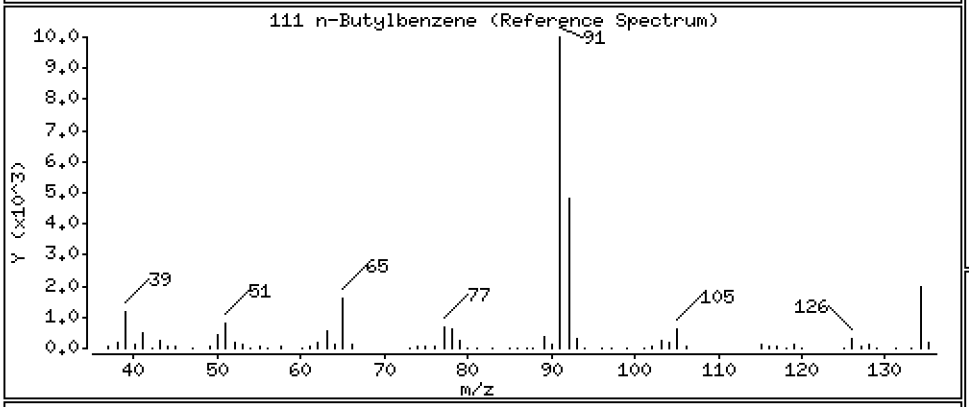
Purge Volume: 5.0 Operator: CJG

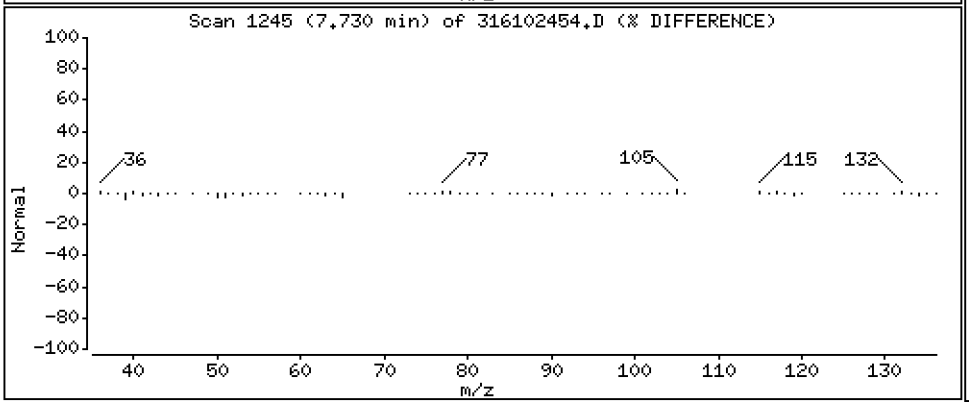
Column phase: DB-VRX Column diameter: 0.25

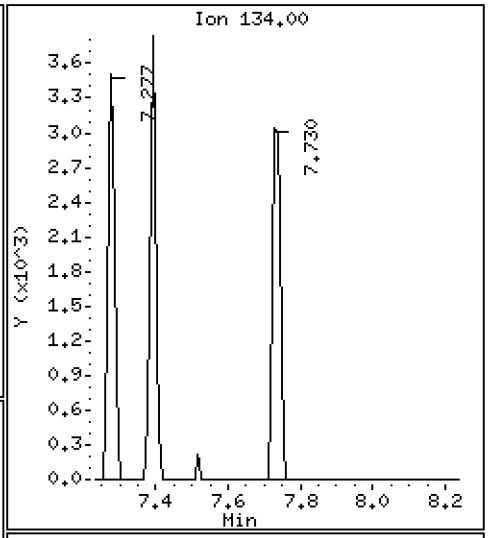
111 n-Butylbenzene Concentration: 0.964575 ug/L

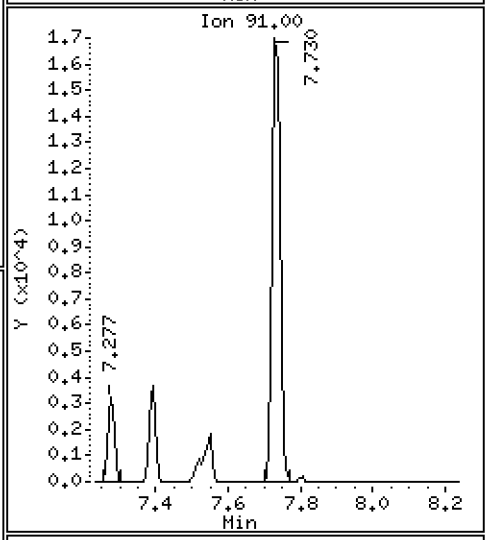


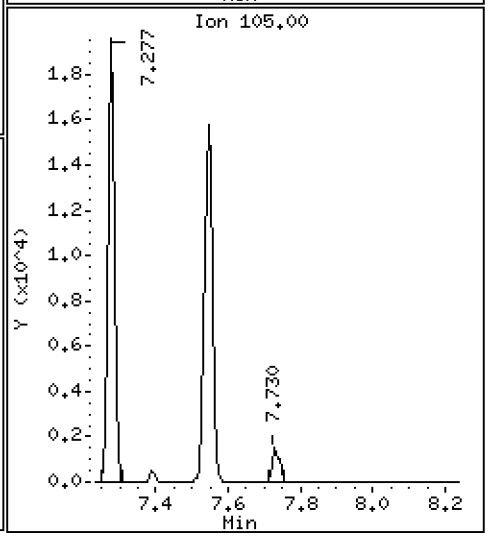












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 112

Date : 24-OCT-2016 23:46

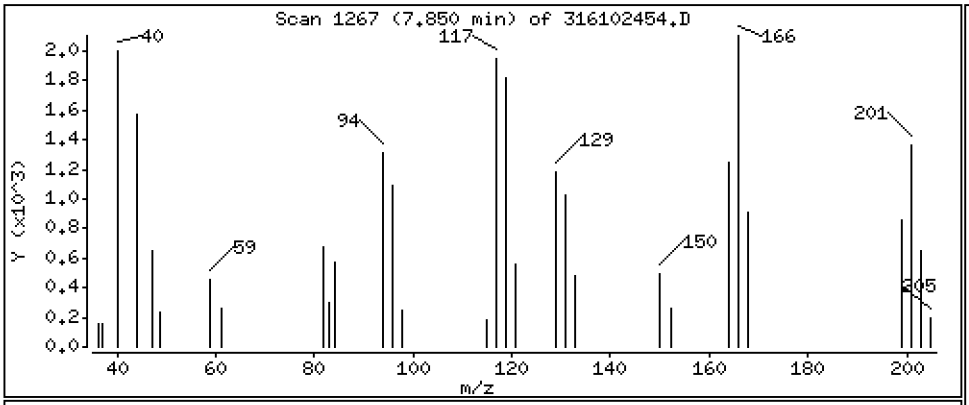
Client ID: Instrument: ms03.i

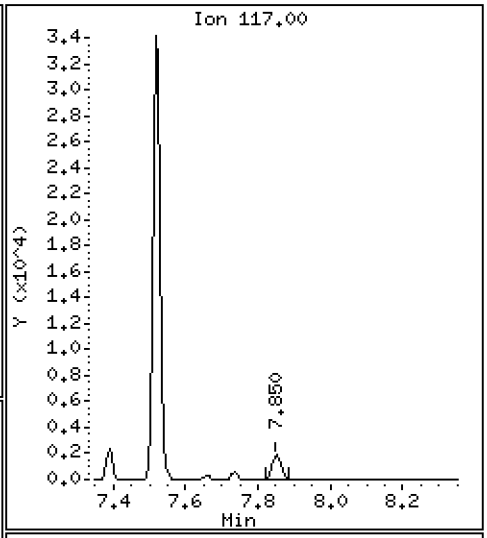
Sample Info: 1234;;1;1;1;;;

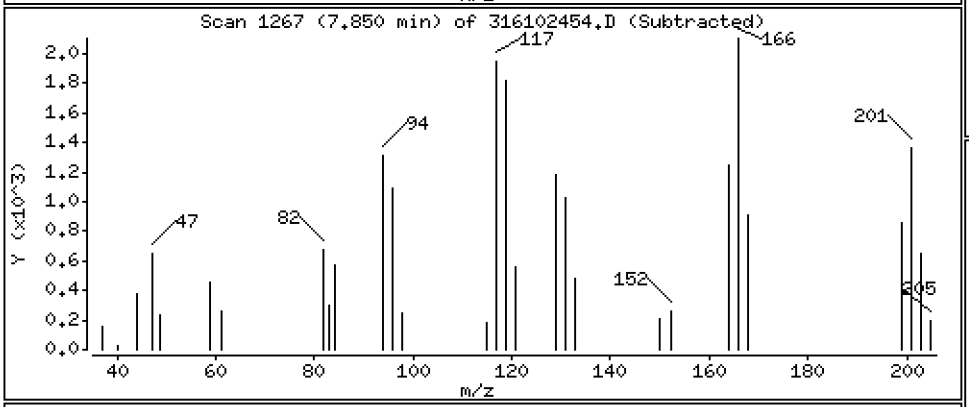
Purge Volume: 5.0 Operator: CJG

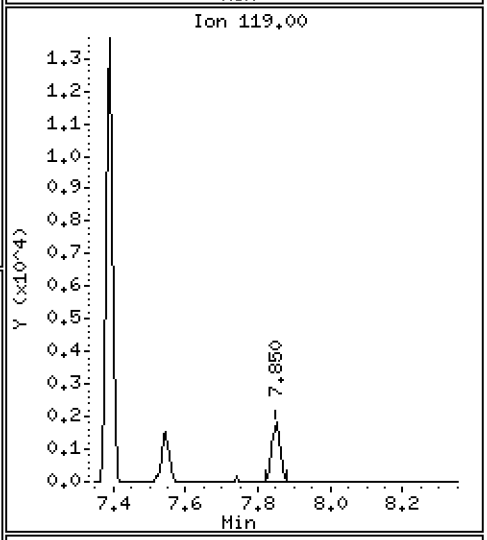
Column phase: DB-VRX Column diameter: 0.25

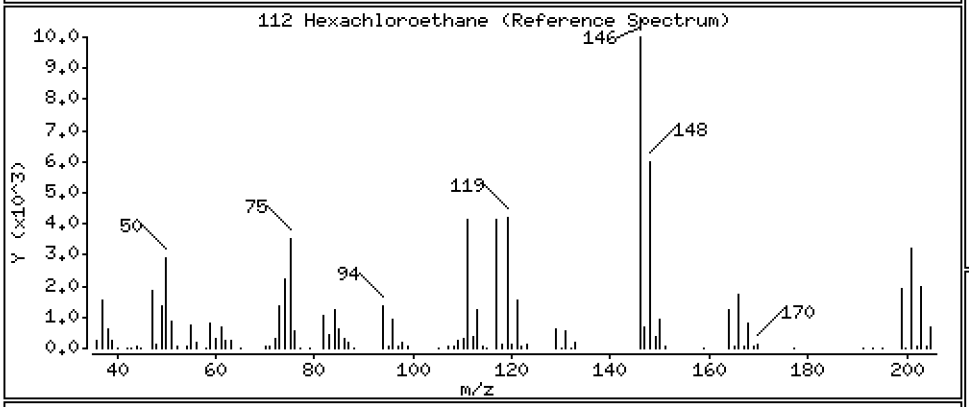
112 Hexachloroethane Concentration: 1.05552 ug/L

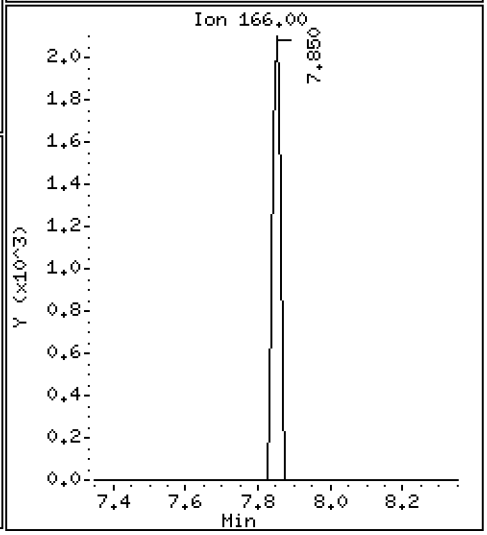


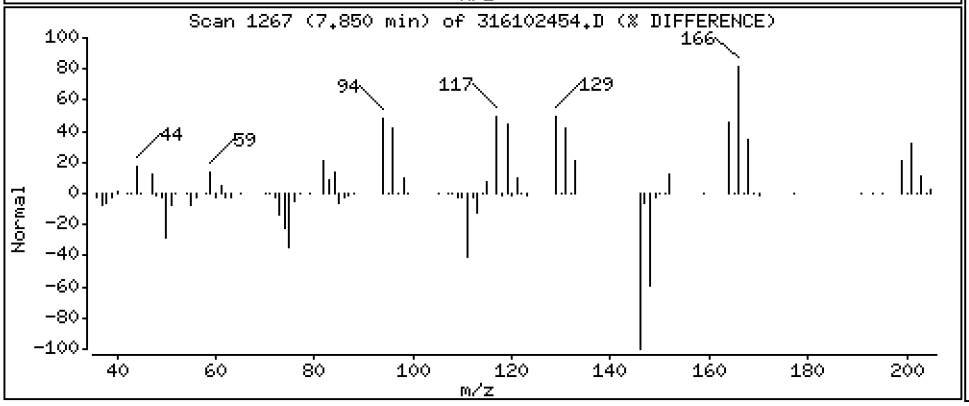












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 113

Date : 24-OCT-2016 23:46

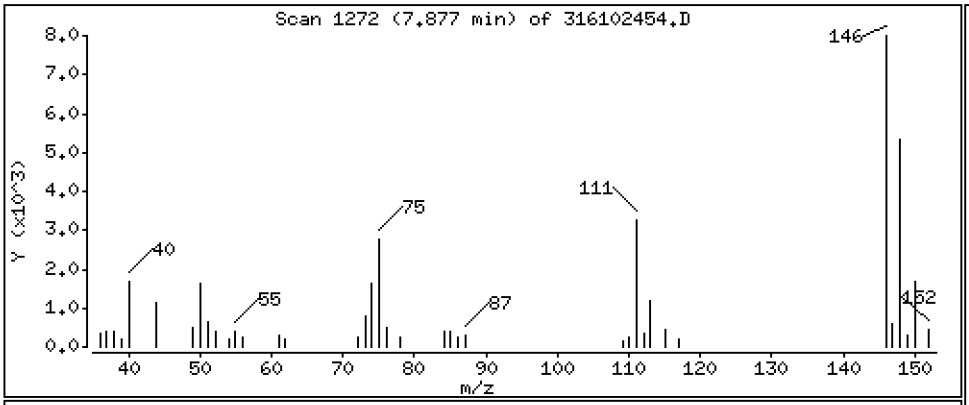
Client ID: Instrument: ms03.i

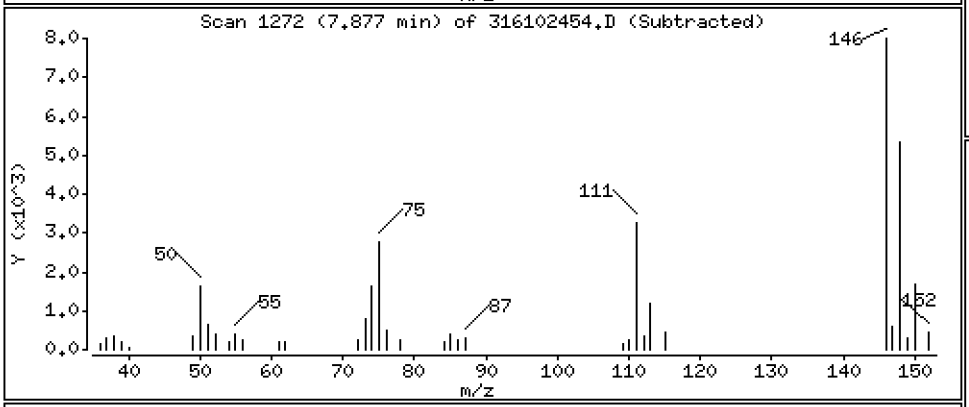
Sample Info: 1234;;1;1;1;;;

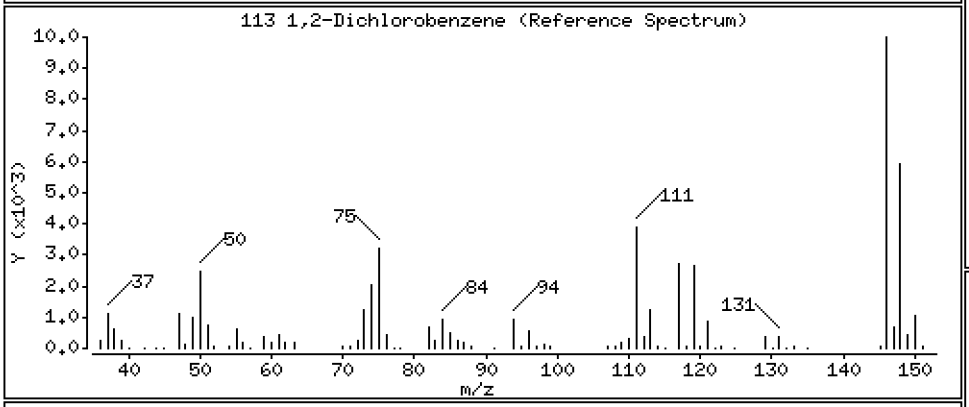
Purge Volume: 5.0 Operator: CJG

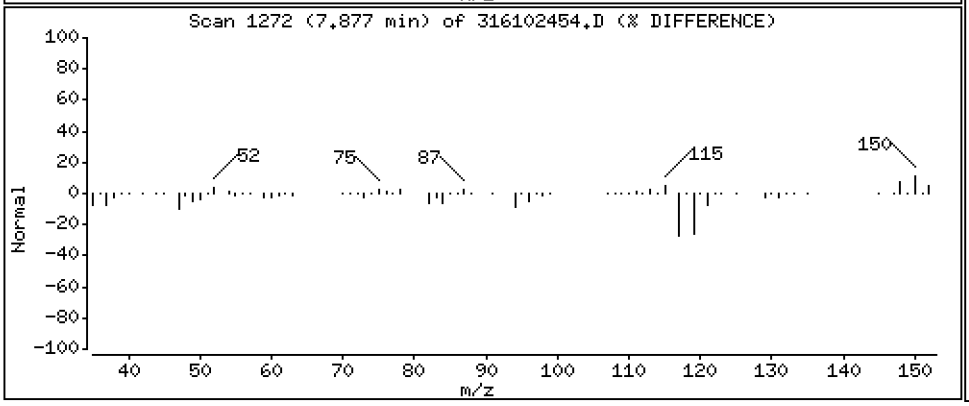
Column phase: DB-VRX Column diameter: 0.25

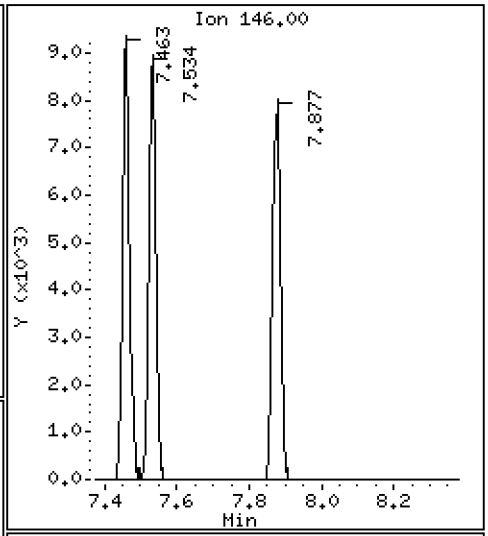
113 1,2-Dichlorobenzene Concentration: 1.20902 ug/L

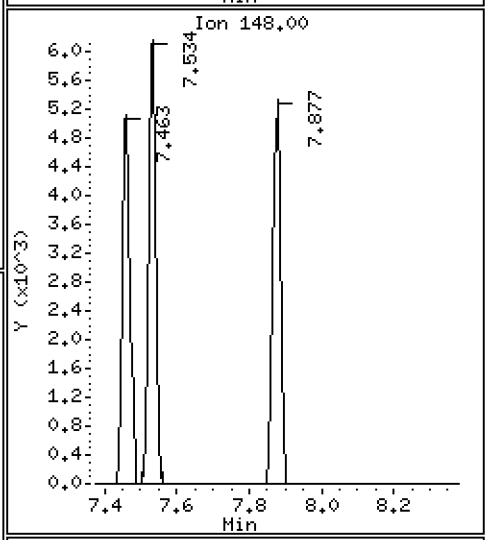


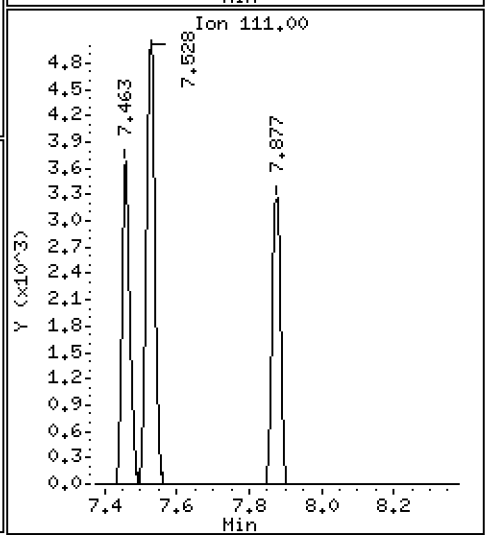












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 114

Date : 24-OCT-2016 23:46

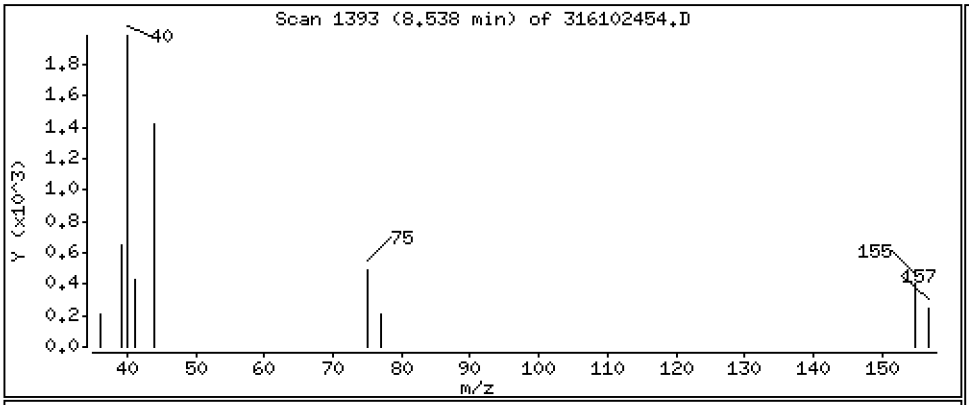
Client ID: Instrument: ms03.i

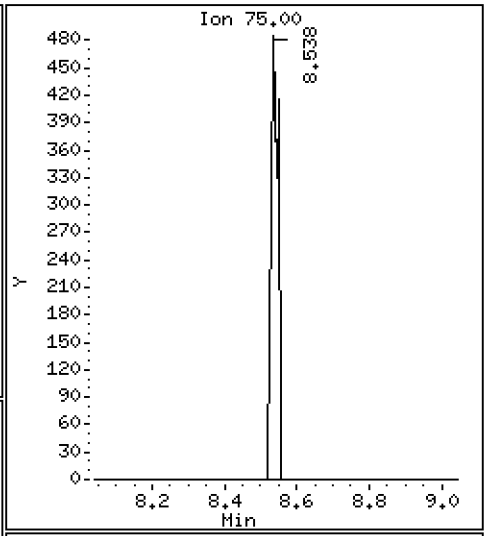
Sample Info: 1234;;1;1;1;;;

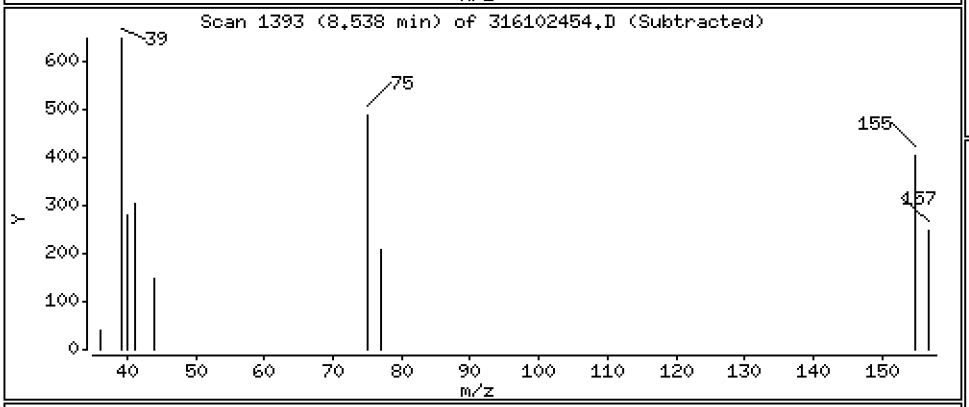
Purge Volume: 5.0 Operator: CJG

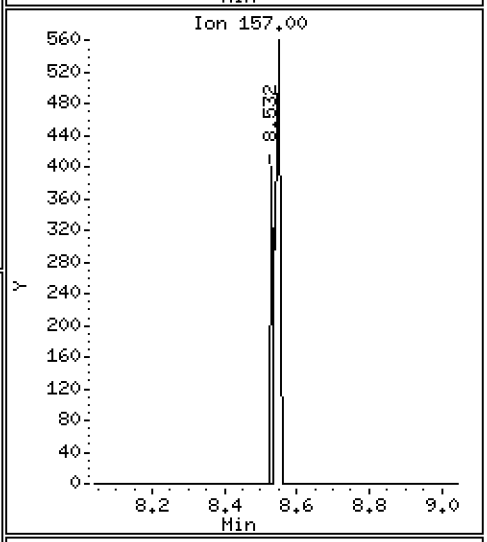
Column phase: DB-VRX Column diameter: 0.25

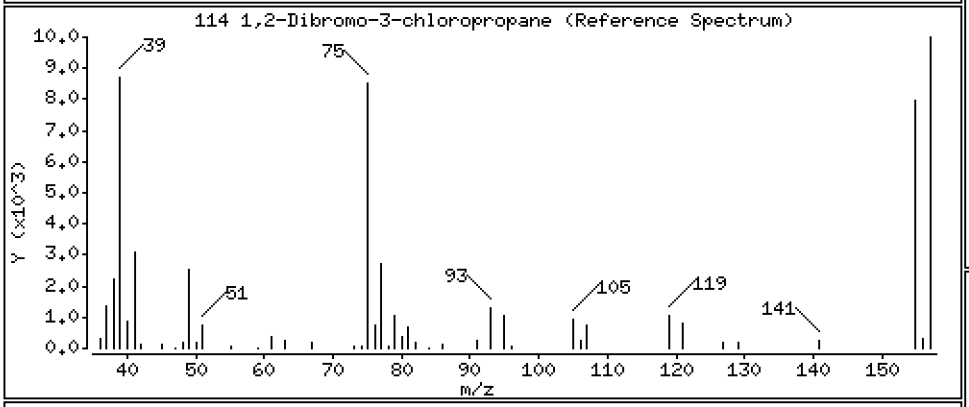
114 1,2-Dibromo-3-chloropropane Concentration: 0.814872 ug/L

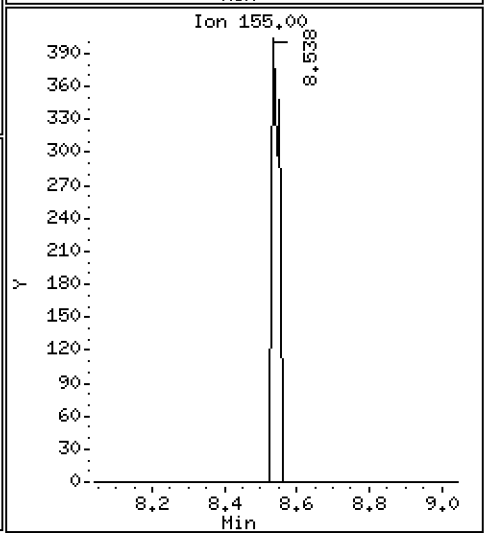


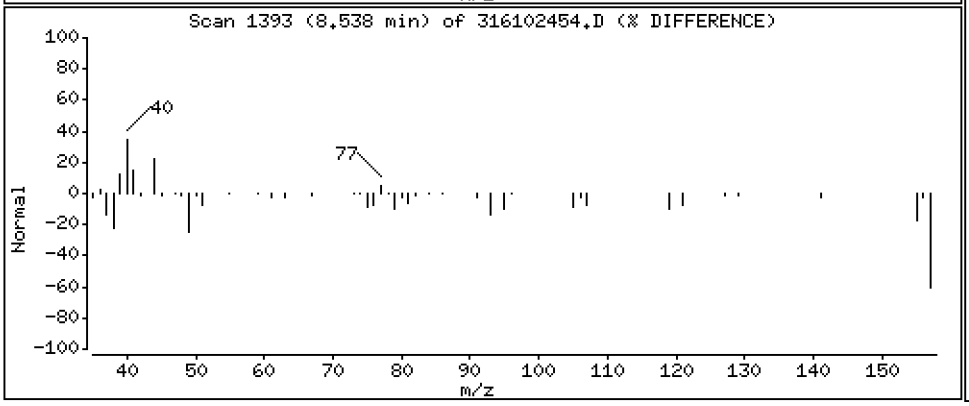












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 115

Date : 24-OCT-2016 23:46

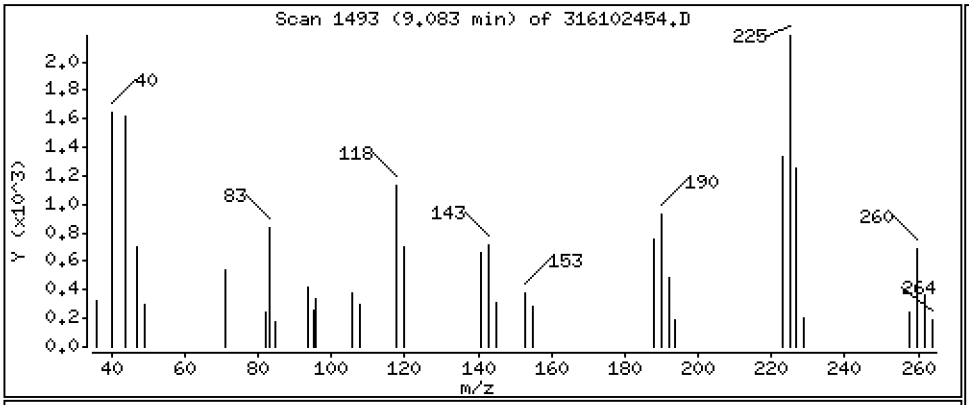
Client ID: Instrument: ms03.i

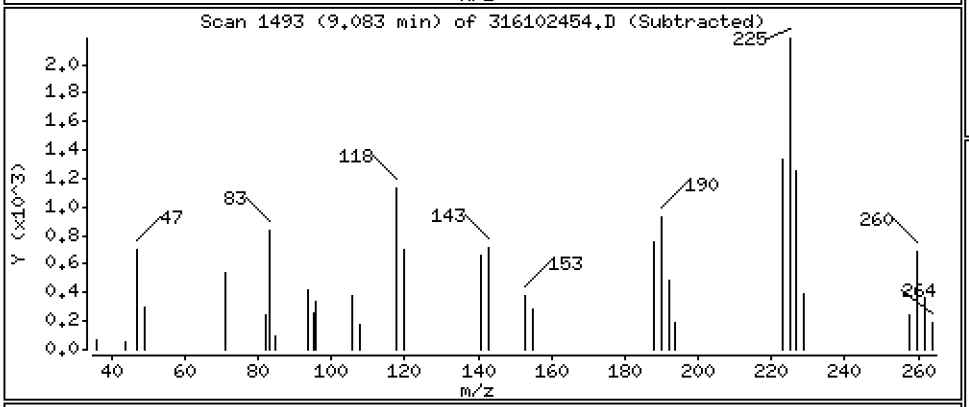
Sample Info: 1234;;1;1;1;;;

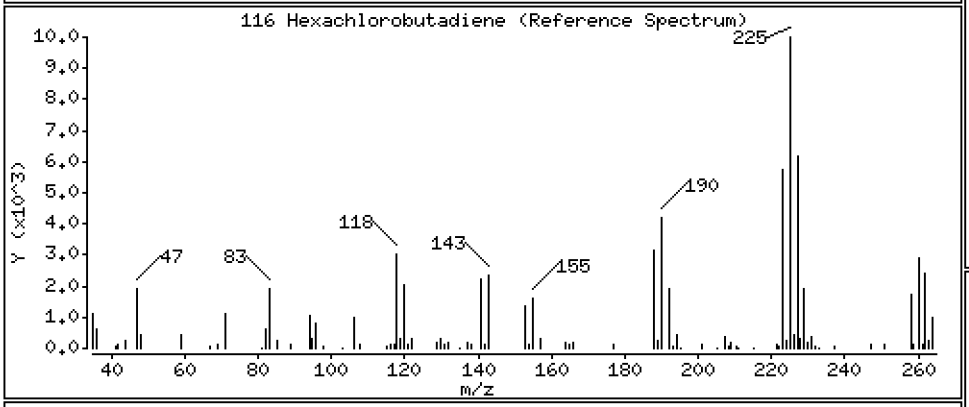
Purge Volume: 5.0 Operator: CJG

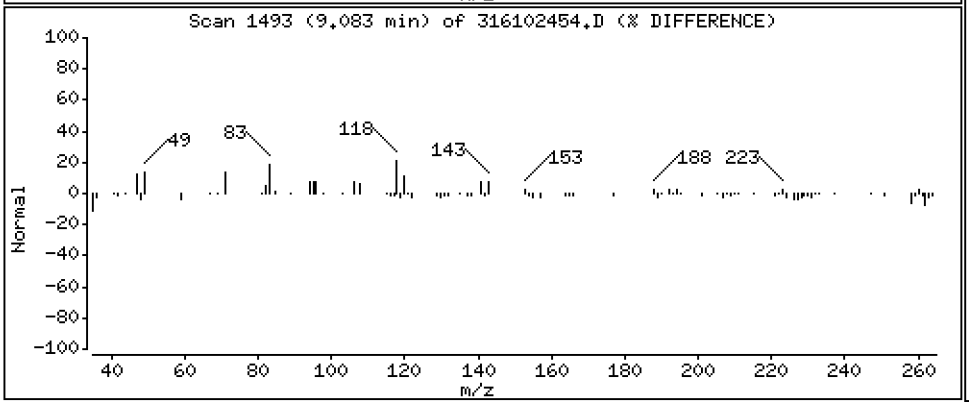
Column phase: DB-VRX Column diameter: 0.25

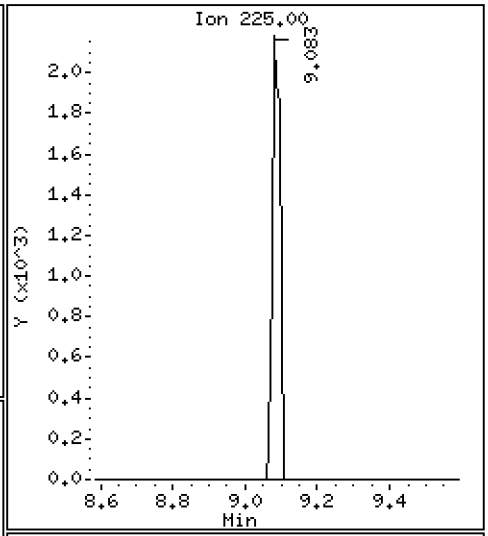
116 Hexachlorobutadiene Concentration: 1.75584 ug/L

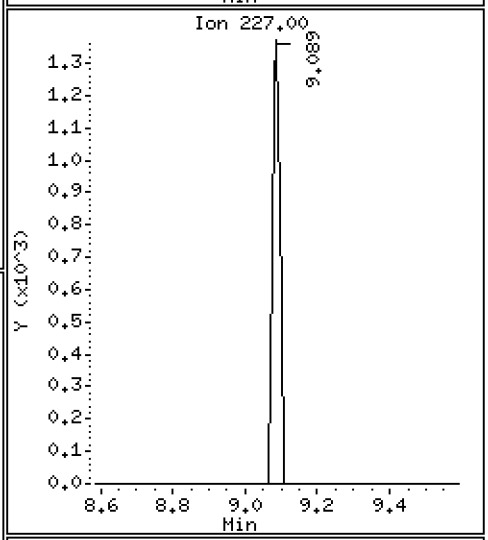


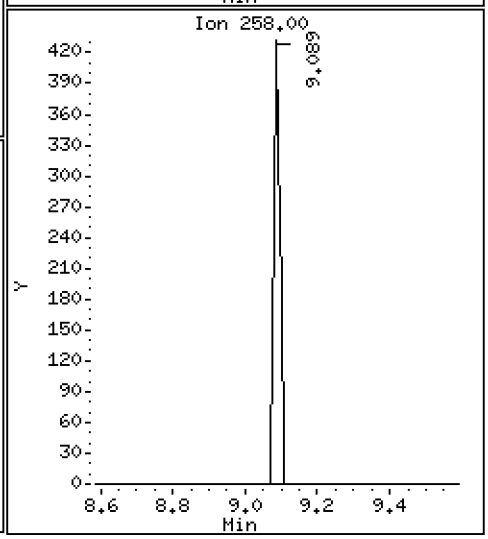












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 116

Date : 24-OCT-2016 23:46

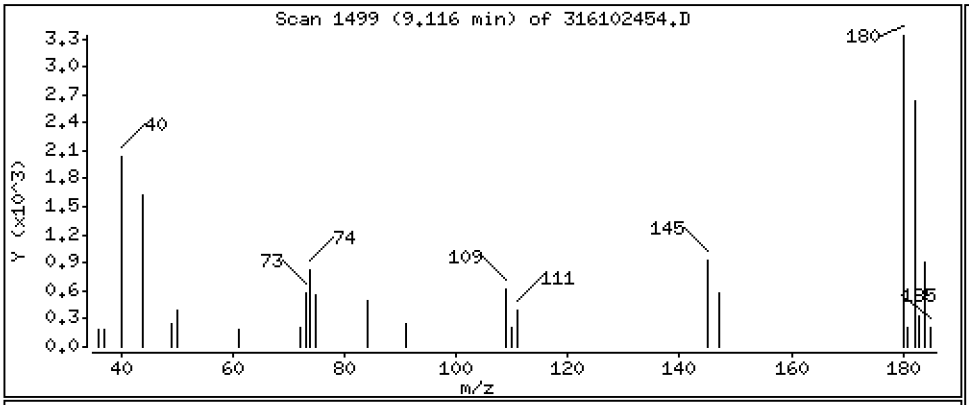
Client ID: Instrument: ms03.i

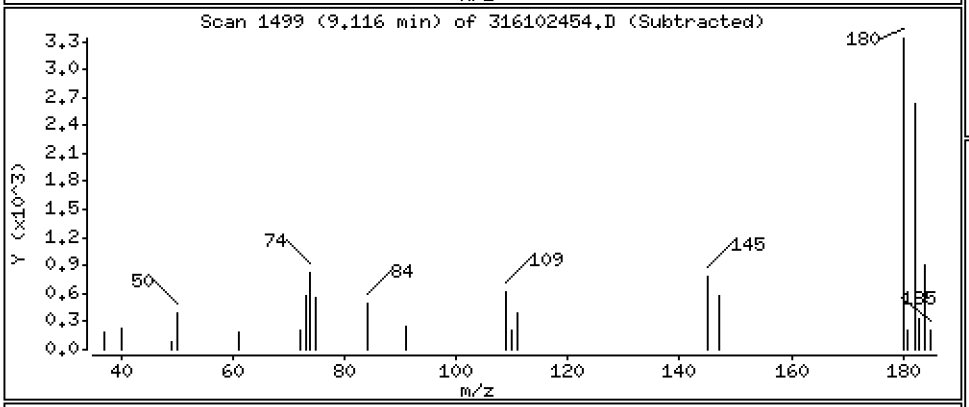
Sample Info: 1234;;1;1;1;;;

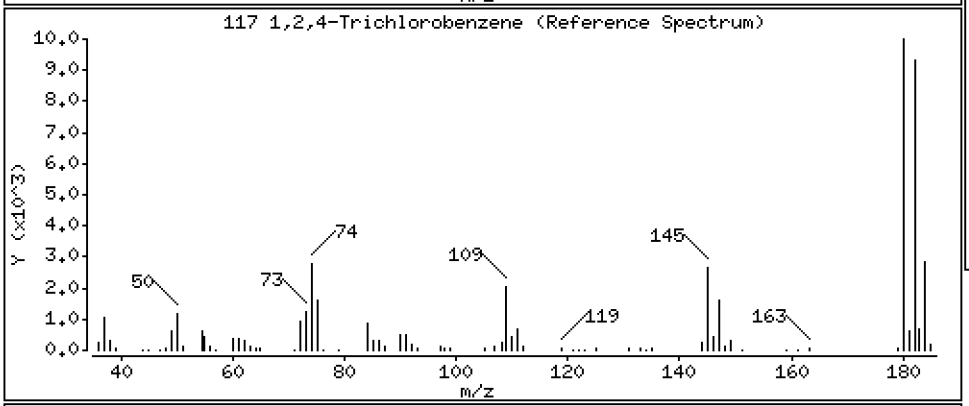
Purge Volume: 5.0 Operator: CJG

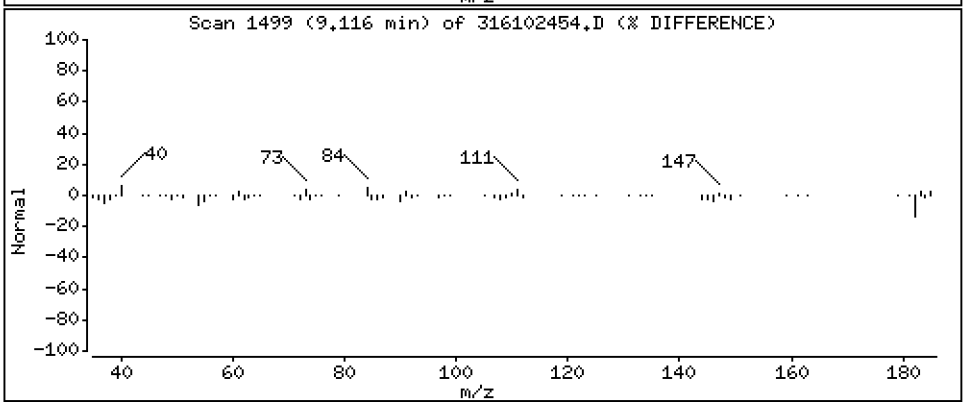
Column phase: DB-VRX Column diameter: 0.25

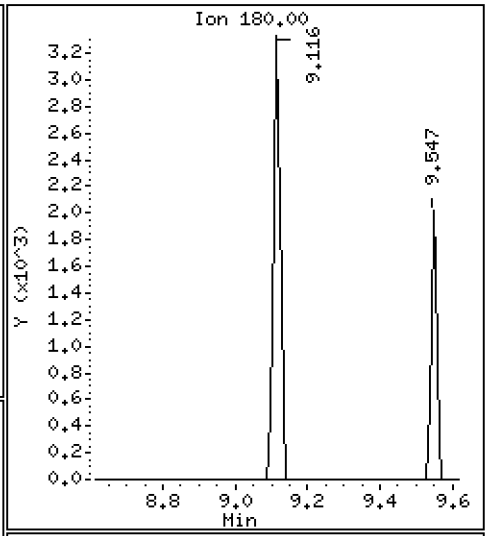
117 1,2,4-Trichlorobenzene Concentration: 1.03635 ug/L

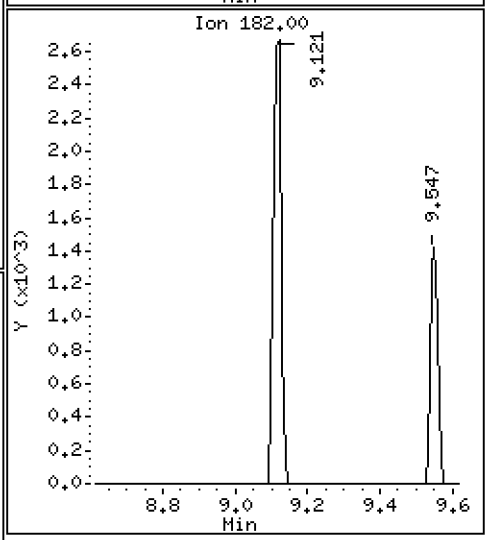












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 117

Date : 24-OCT-2016 23:46

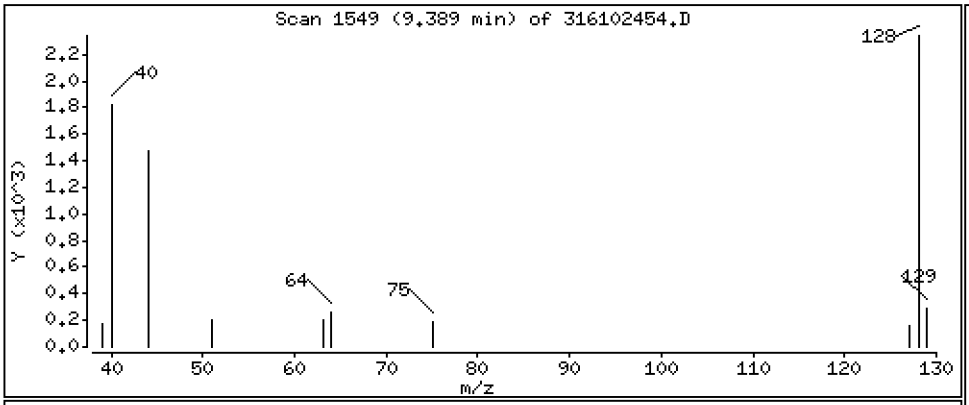
Client ID: Instrument: ms03.i

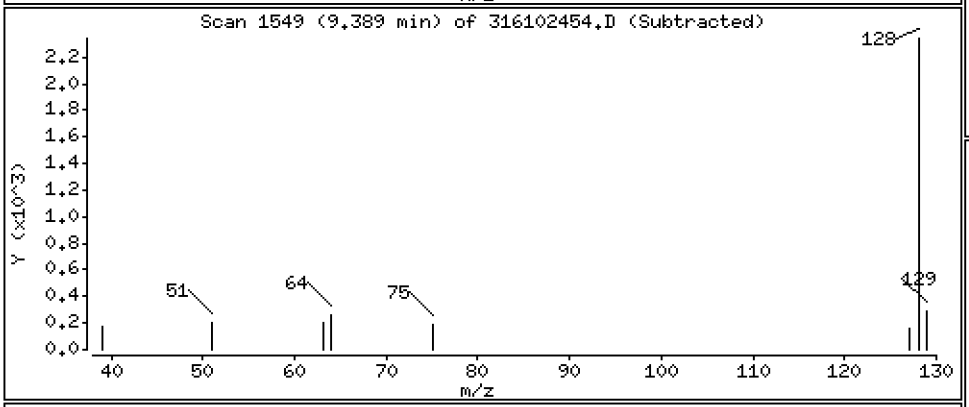
Sample Info: 1234;;1;1;1;;;

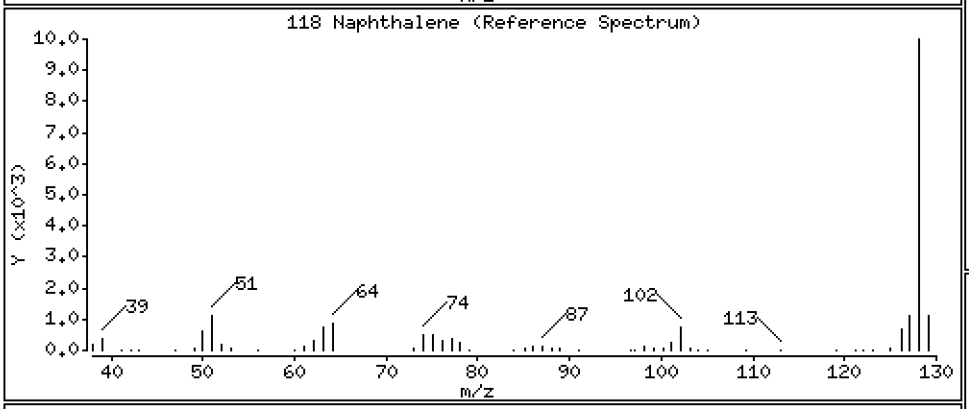
Purge Volume: 5.0 Operator: CJG

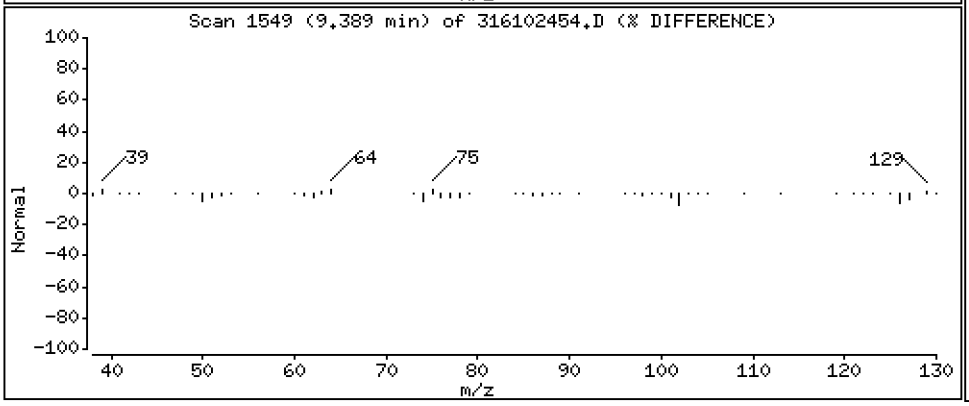
Column phase: DB-VRX Column diameter: 0.25

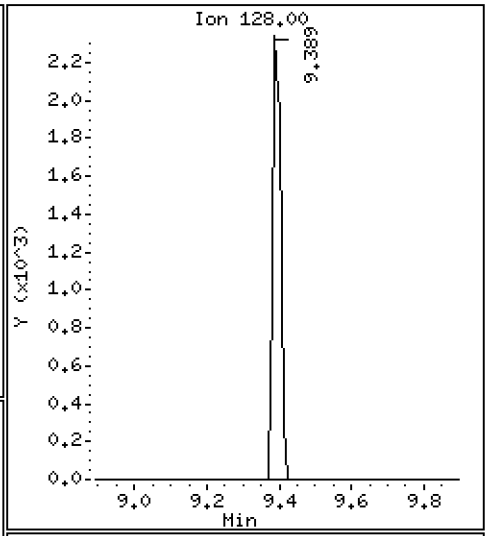
118 Naphthalene Concentration: 0.495082 ug/L

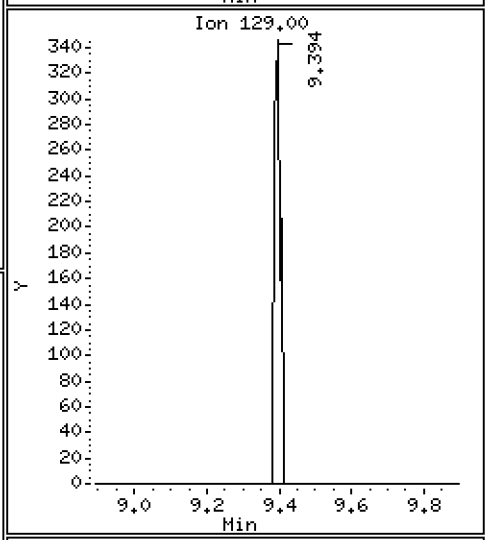


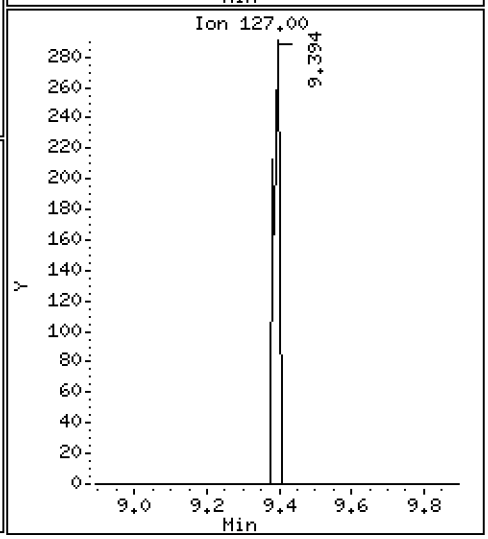












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102454.D Page 118

Date : 24-OCT-2016 23:46

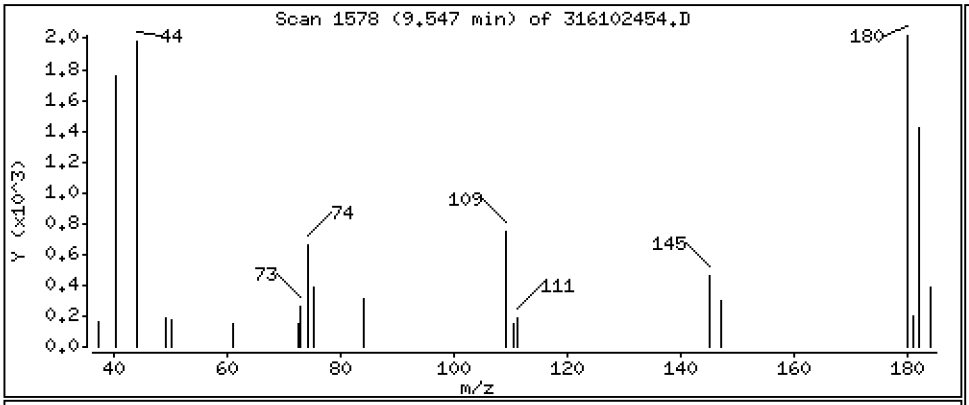
Client ID: Instrument: ms03.i

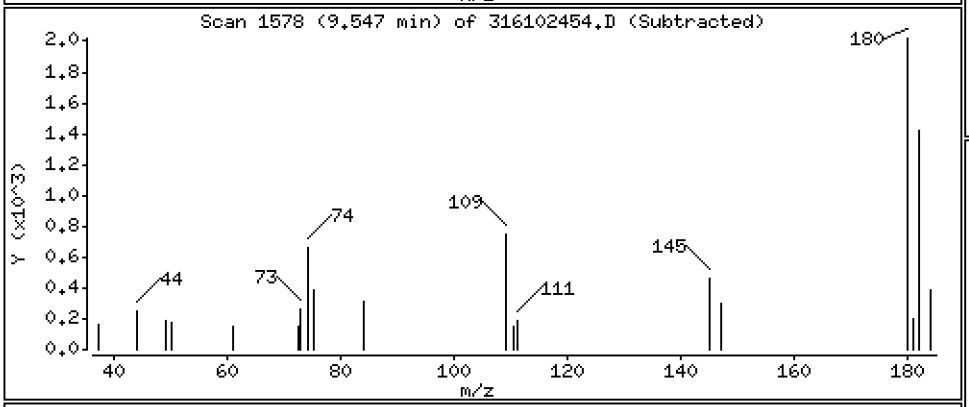
Sample Info: 1234;;1;1;1;;;

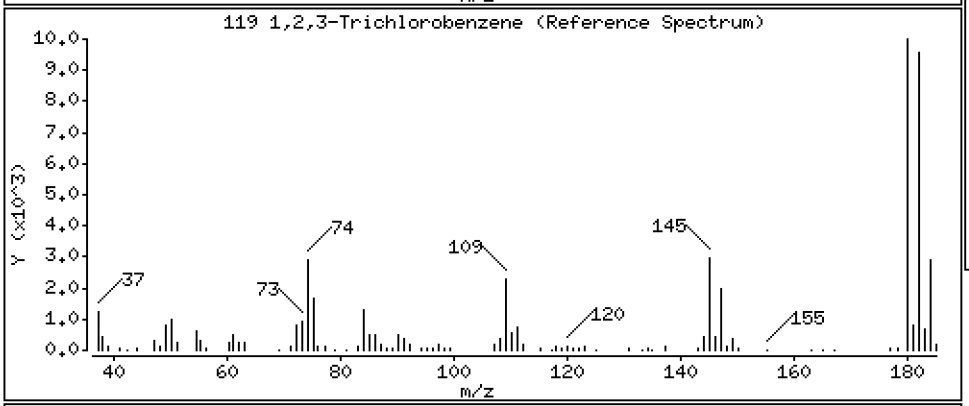
Purge Volume: 5.0 Operator: CJG

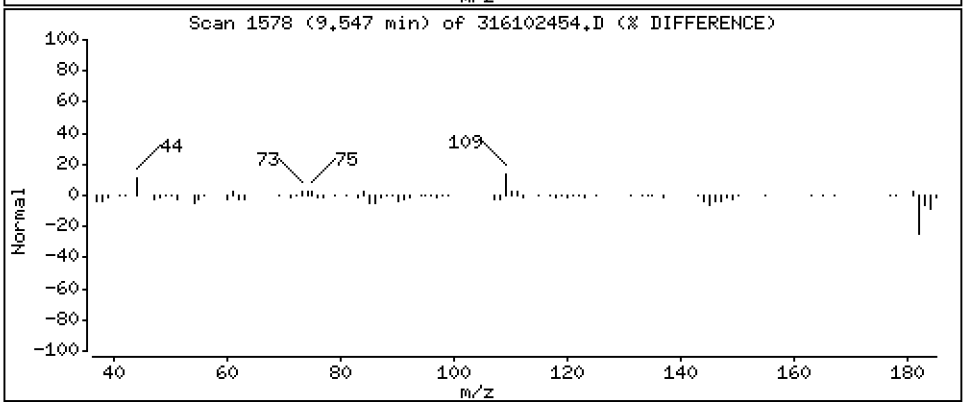
Column phase: DB-VRX Column diameter: 0.25

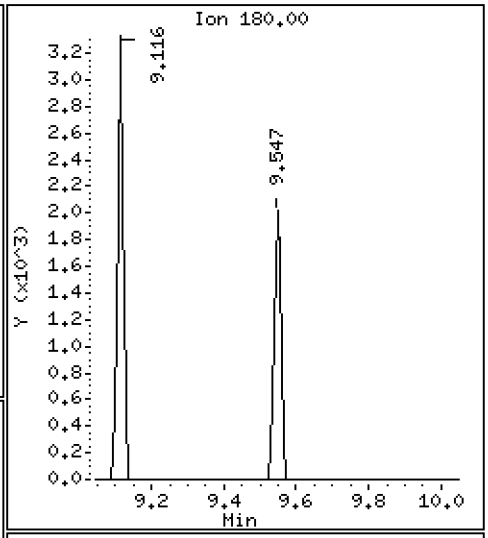
119 1,2,3-Trichlorobenzene Concentration: 0.993244 ug/L

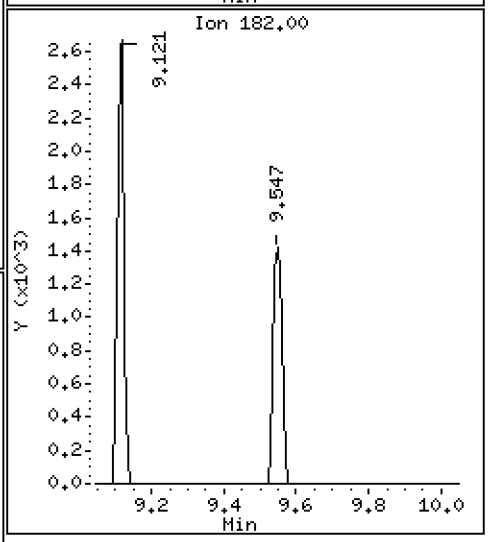








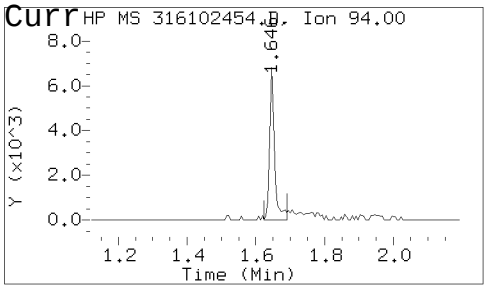


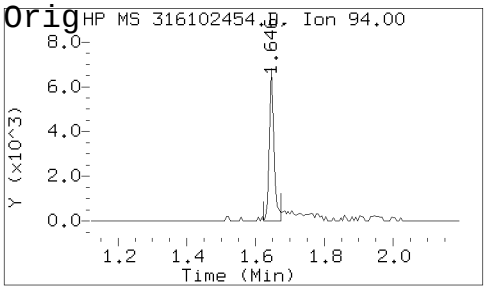


MANUAL INTEGRATION REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1234 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102454.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102454.D
Injection Date: 24-OCT-2016 23:46 Operator: CJG

Bromomethane

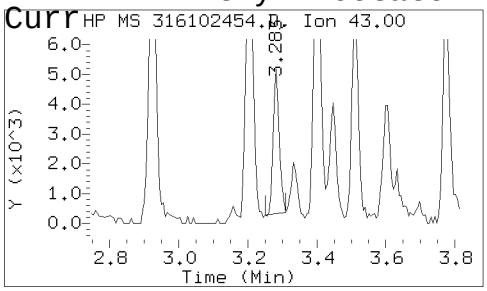
Curr 

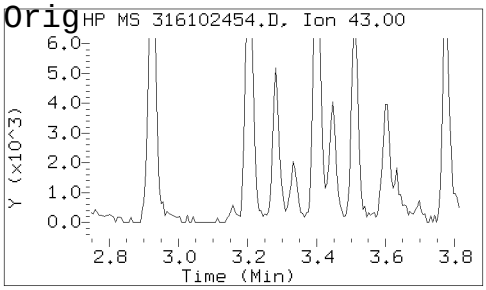
Orig 

Curr. Area: 6707
Orig. Area: 6321

Curr. ON-COL: 1.76167
Orig. ON-COL: 1.22744

Ethyl Acetate

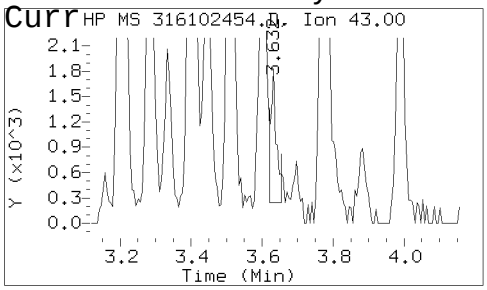
Curr 

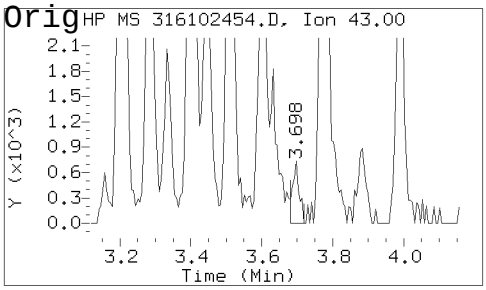
Orig 

Curr. Area: 6242
Orig. Area: 0

Curr. ON-COL: 0.893259
Orig. ON-COL: 0.000000

Isobutyl alcohol

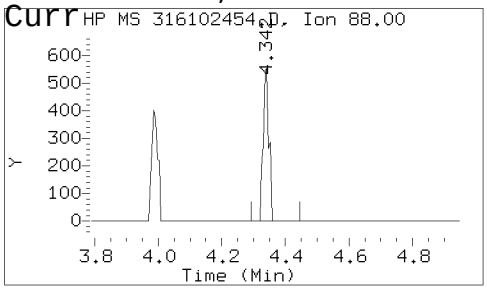
Curr 

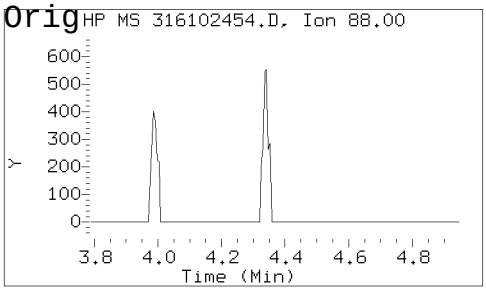
Orig 

Curr. Area: 1844
Orig. Area: 966

Curr. ON-COL: 12.1183
Orig. ON-COL: 5.00179

1,4-Dioxane

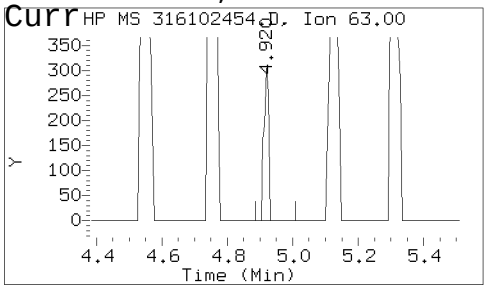
Curr 

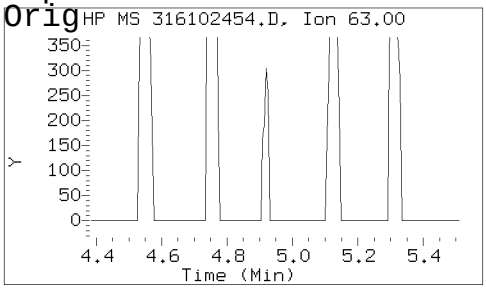
Orig 

Curr. Area: 693
Orig. Area: 0

Curr. ON-COL: 21.8040
Orig. ON-COL: 0.000000

1,1-Dichloro-2-Propanone

Curr 

Orig 

Curr. Area: 298
Orig. Area: 0

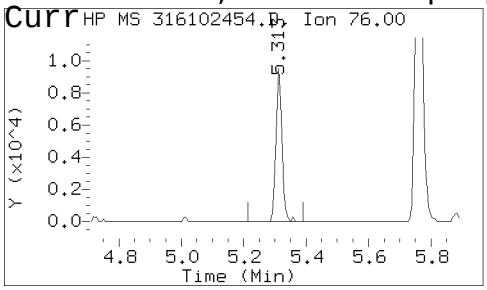
Curr. ON-COL: 2.39886
Orig. ON-COL: 0.000000

MANUAL INTEGRATION REPORT

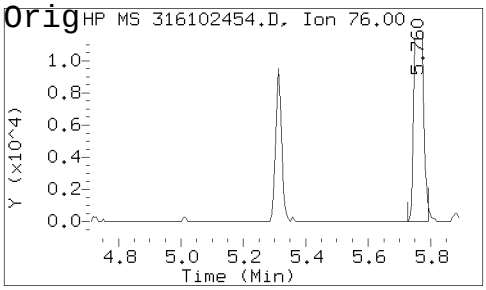
Report Date: 10/25/2016 10:12
Lab Sample ID: 1234 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102454.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102454.D
Injection Date: 24-OCT-2016 23:46 Operator: CJG

1,3-Dichloropropane

Curr



Orig



Curr. Area: 12677
Orig. Area: 43054

Curr. ON-COL: 1.12767
Orig. ON-COL: 2.57802

UNASSIGNED PEAK REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1234 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102454.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102454.D
Injection Date: 24-OCT-2016 23:46 Operator: CJG

Data File: 316102455.D Page 1
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610245
Lab Smp Id: 1235
Inj Date : 25-OCT-2016 00:08
Operator : CJG Inst ID: ms03.i
Smp Info : 1235;;1;1;2;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b0
Meth Date : 25-Oct-2016 10:10 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 00:08 Cal File: 316102455.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: ALMDTW7062

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.259	(0.332)	66929	5.00000	5.66983	
2 Chloromethane	50	1.389	1.390	(0.367)	59314	5.00000	5.51749	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	65599	5.00000	5.35999	
4 Bromomethane	94	1.646	1.646	(0.434)	20074	5.00000	5.27260(M)	H
5 Chloroethane	64	1.722	1.723	(0.454)	40365	5.00000	5.51071	
6 Pentane	41	1.793	1.794	(0.473)	40716	5.00000	6.42848	
7 Trichlorofluoromethane	101	1.799	1.799	(0.475)	72659	5.00000	5.83139	
8 Dichlorofluoromethane	67	1.826	1.826	(0.482)	89528	5.00000	5.55616	
9 Ethyl Ether	74	1.968	1.968	(0.519)	29226	5.00000	5.53817	
10 1,1-Dichloroethene	61	2.088	2.088	(0.551)	60696	5.00000	5.43008	
11 Freon 113	101	2.104	2.105	(0.555)	36072	5.00000	6.10634	
12 Carbon Disulfide	76	2.120	2.121	(0.560)	94716	5.00000	4.73689	
13 Iodomethane	127	2.180	2.181	(0.575)	2578	5.00000	4.71317(Q)	
14 Acrolein	56	2.273	2.274	(0.600)	54142	50.0000	48.4025	
15 Isopropyl Alcohol	45	2.328	2.334	(0.614)	6543	25.0000	25.4454	
16 3-Chloro-1-propene	41	2.344	2.345	(0.619)	49207	5.00000	4.50606	
17 Methylene Chloride	84	2.404	2.405	(0.634)	49321	5.00000	5.24071	
18 Acetone	58	2.426	2.427	(0.640)	15816	25.0000	26.9980	
19 Methyl acetate	74	2.481	2.481	(0.655)	6141	5.00000	5.11895	
20 trans-1,2-Dichloroethene	61	2.486	2.487	(0.656)	59448	5.00000	5.39652	
21 Hexane	57	2.519	2.519	(0.665)	78754	5.00000	5.00084	

Data File: 316102455.D Page 2
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.530	2.530	(0.667)	95511	5.00000	4.76458	
	23 tert.- Butyl Alcohol	59	2.562	2.563	(0.676)	11271	25.0000	26.3835	
	24 Acetonitrile	41	2.682	2.683	(0.708)	19368	25.0000	26.5647	
	25 Diisopropyl ether	45	2.721	2.721	(0.718)	128312	5.00000	4.64902	
	26 Chloroprene	53	2.797	2.798	(0.738)	56678	5.00000	5.06181	
	27 1,1-Dichloroethane	63	2.813	2.814	(0.742)	79832	5.00000	5.51333	
	28 Acrylonitrile	53	2.841	2.841	(0.750)	67856	25.0000	24.8024	
	29 Ethyl tert-butyl ether	59	2.912	2.912	(0.768)	105202	5.00000	4.47169	
	30 n-Propanol	41	2.912	2.912	(0.768)	28174	50.0000	53.0785(aQ)	
	31 Vinyl Acetate	86	2.928	2.929	(0.773)	6734	5.00000	4.20841(aQ)	
	32 cis-1,2-Dichloroethene	61	3.097	3.098	(0.817)	59353	5.00000	5.30145	
	33 2,2-Dichloropropane	77	3.163	3.158	(0.834)	47659	5.00000	5.15694	
	34 Bromochloromethane	128	3.206	3.207	(0.846)	15919	5.00000	4.75087(Q)	
	35 Cyclohexane	84	3.212	3.212	(0.847)	64779	5.00000	5.99614	
	36 Chloroform	83	3.234	3.234	(0.853)	82953	5.00000	5.86191	
	37 Ethyl Acetate	43	3.283	3.278	(0.866)	31989	5.00000	4.63601(QM)	IH
	38 Methyl acrylate	55	3.294	3.294	(0.869)	30911	5.00000	4.68903	
	39 Carbon Tetrachloride	117	3.326	3.321	(0.878)	39996	5.00000	5.32435	
	40 Tetrahydrofuran	42	3.332	3.327	(0.879)	51432	25.0000	24.4943	
$	41 Dibromofluoromethane	113	3.337	3.338	(0.881)	29917	5.00000	5.12171	
	42 1,1,1-Trichloroethane	97	3.359	3.360	(0.886)	53938	5.00000	5.16873	
	43 2-Butanone	72	3.403	3.398	(0.898)	23501	25.0000	26.6274(Q)	
	44 1,1-Dichloropropene	75	3.425	3.425	(0.904)	58952	5.00000	5.64694	
	45 1-Chlorobutane	41	3.446	3.447	(0.909)	49665	5.00000	5.84834	
	46 Heptane	71	3.512	3.512	(0.927)	24106	5.00000	4.89757	
	47 Benzene	78	3.561	3.567	(0.940)	179233	5.00000	5.42687	
	48 Propionitrile	54	3.577	3.578	(0.944)	25625	25.0000	25.4875	
	49 Methacrylonitrile	67	3.583	3.583	(0.945)	15286	5.00000	5.03587(Q)	
	50 tert-Amyl methyl ether	73	3.599	3.600	(0.950)	89164	5.00000	4.87002	
$	51 1,2-Dichloroethane-d4	65	3.637	3.638	(0.960)	42642	5.00000	5.33132	
	52 1,2-Dichloroethane	62	3.676	3.676	(0.970)	52473	5.00000	5.28320	
	53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	7326	25.0000	21.7843	
	54 Isobutyl alcohol	43	3.632	3.632	(0.958)	8432	50.0000	55.2435(aQ)	
*	55 Fluorobenzene	96	3.790	3.791	(1.000)	965707	30.0000		
	56 Diisobutylene	57	3.790	3.796	(1.000)	134530	5.00000	6.77682	
	57 Trichloroethene	95	3.883	3.883	(1.024)	40271	5.00000	5.51785	
	58 Methyl cyclohexane	83	3.883	3.883	(0.674)	65701	5.00000	5.89290	
	59 tert-Amyl Ethylether	59	3.992	3.987	(1.053)	75193	5.00000	4.48425	
	60 Dibromomethane	93	4.139	4.139	(1.092)	20984	5.00000	5.07669	
	61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	42691	5.00000	4.99016	
	62 Bromodichloromethane	83	4.221	4.222	(1.114)	40150	5.00000	4.48588	
	63 Methyl methacrylate	41	4.292	4.293	(1.132)	26169	5.00000	4.09792	
	64 1,4-Dioxane	88	4.341	4.336	(1.145)	3781	125.000	120.749(a)	
	65 2-Chloroethylvinyl ether	63	4.549	4.549	(1.200)	13233	5.00000	3.45759	
	66 cis-1,3-Dichloropropene	75	4.603	4.604	(0.799)	47567	5.00000	4.15473	
	67 Octane	85	4.609	4.609	(0.800)	15009	5.00000	4.70949(a)	
$	68 Toluene-d8	98	4.723	4.724	(0.820)	122700	5.00000	4.94876	
	69 Toluene	92	4.756	4.756	(0.826)	97106	5.00000	5.39713	
	70 Chloroacetonitrile	48	4.832	4.833	(0.839)	3588	25.0000	21.0508(aQ)	
	71 2-Nitropropane	41	4.909	4.909	(0.852)	24191	25.0000	18.5117	
	72 1,1-Dichloro-2-Propanone	63	4.920	4.920	(0.854)	2477	25.0000	19.7526(aQM)	IH
	73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.986	(0.865)	157720	25.0000	22.5913	
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	29126	5.00000	6.40061	
	75 trans-1,3-Dichloropropene	75	5.018	5.013	(0.871)	42872	5.00000	4.26371	

Data File: 316102455.D Page 3
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.094	5.095	(0.884)	37412	5.00000	4.02947(Q)	
	77 1,1,2-Trichloroethane	83	5.127	5.122	(0.890)	28504	5.00000	5.39868	
	78 Chlorodibromomethane	129	5.247	5.247	(0.911)	22034	5.00000	4.20668	
	79 1,3-Dichloropropane	76	5.312	5.313	(0.922)	59764	5.00000	5.28577(QM)	IH
	80 1,2-Dibromoethane	107	5.422	5.422	(0.941)	26194	5.00000	4.83206	
	81 2-Hexanone	43	5.542	5.542	(0.962)	93216	25.0000	20.5432	
	82 1-Chlorohexane	91	5.738	5.739	(0.996)	46426	5.00000	5.07295(Q)	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	402822	30.0000		
	84 Chlorobenzene	112	5.771	5.777	(1.002)	100243	5.00000	5.67543	
	85 Ethylbenzene	106	5.782	5.782	(1.004)	55576	5.00000	5.72338	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.815	(1.009)	26265	5.00000	4.98751	
	87 mp-Xylene	106	5.880	5.880	(1.021)	128570	10.0000	10.9242	
	88 o-Xylene	106	6.196	6.197	(1.076)	55160	5.00000	4.93441	
	89 Styrene	104	6.235	6.235	(0.829)	87542	5.00000	4.91679	
	90 Bromoform	173	6.262	6.262	(0.833)	8896	5.00000	4.09499	
	91 Isopropylbenzene	105	6.426	6.426	(0.855)	145184	5.00000	5.35267	
$	92 4-Bromofluorobenzene	174	6.649	6.650	(0.885)	23610	5.00000	4.82802	
	93 Bromobenzene	156	6.731	6.732	(0.895)	30039	5.00000	5.47376	
	94 n-Propylbenzene	120	6.737	6.737	(0.896)	36210	5.00000	5.23707	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.792	(0.903)	34343	5.00000	5.22071	
	96 o-Chlorotoluene	91	6.868	6.868	(0.914)	117009	5.00000	5.47627	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.916)	106709	5.00000	5.09809	
	98 1,2,3-Trichloropropane	110	6.906	6.906	(0.919)	10176	5.00000	5.32925	
	99 trans-1,4-Dichloro-2-butene	53	6.933	6.933	(0.922)	7595	5.00000	4.28306(Q)	
M	100 1,2-Dichloroethene, Total	61				118801	10.0000	10.6980	
	101 p-Chlorotoluene	91	6.993	6.994	(0.930)	105235	5.00000	5.34408	
	102 tert-Butylbenzene	134	7.140	7.141	(0.950)	24204	5.00000	5.41204(Q)	
	103 Pentachloroethane	117	7.162	7.163	(0.953)	18620	5.00000	4.82343(Q)	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.957)	106693	5.00000	5.11496	
	105 sec-Butylbenzene	105	7.277	7.277	(0.968)	131291	5.00000	5.18551	
	106 p-Isopropyltoluene	134	7.391	7.392	(0.983)	23734	5.00000	4.77453	
	107 1,3-Dichlorobenzene	146	7.462	7.463	(0.993)	56398	5.00000	5.73183	
*	108 1,4-Dichlorobenzene-d4	152	7.517	7.523	(1.000)	236717	30.0000		
	109 1,4-Dichlorobenzene	146	7.528	7.534	(1.001)	56880	5.00000	5.77243	
	110 Benzyl Chloride	126	7.730	7.736	(1.028)	3988	5.00000	3.26328(Q)	
	111 n-Butylbenzene	134	7.735	7.736	(1.029)	19439	5.00000	4.59482(Q)	
	112 Hexachloroethane	117	7.850	7.850	(1.044)	13009	5.00000	4.50141(Q)	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.048)	48183	5.00000	5.44857	
	114 1,2-Dibromo-3-chloropropane	75	8.537	8.542	(1.136)	3186	5.00000	4.52665(a)	
	115 Nitrobenzene	77	9.028	9.029	(1.201)	308	50.0000	102.889(QM)	H
	116 Hexachlorobutadiene	225	9.088	9.089	(1.209)	9195	5.00000	5.58003	
	117 1,2,4-Trichlorobenzene	180	9.116	9.116	(1.213)	15391	5.00000	4.19371	
	118 Naphthalene	128	9.399	9.394	(1.250)	16327	5.00000	2.54318	
	119 1,2,3-Trichlorobenzene	180	9.547	9.547	(1.270)	9536	5.00000	4.10567	
M	120 1,3-Dichloropropene, Total	75				90439	10.0000	8.41843	
M	121 Total Xylenes	106				183730	15.0000	15.8586	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 316102455.D Page 4
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 25-OCT-2016
Lab File ID: 316102455.D Calibration Time: 00:52
Lab Smp Id: 1235
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: CJG
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	965707	-4.68
83 Chlorobenzene-d5	432864	216432	865728	402822	-6.94
108 1,4-Dichlorobenze	273837	136919	547674	236717	-13.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102455.D Page 5
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1235
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.66983	
74-87-3	Chloromethane	5.51749	
75-01-4	Vinyl Chloride	5.35999	
74-83-9	Bromomethane	5.27260	
75-00-3	Chloroethane	5.51071	
109-66-0	Pentane	6.42848	
75-69-4	Trichlorofluoromethane	5.83139	
75-43-4	Dichlorofluoromethane	5.55616	
60-29-7	Ethyl Ether	5.53817	
75-35-4	1,1-Dichloroethene	5.43008	
76-13-1	Freon 113	6.10634	
75-15-0	Carbon Disulfide	4.73689	
74-88-4	Iodomethane	4.71317	
107-02-8	Acrolein	48.4025	
67-63-0	Isopropyl Alcohol	25.4454	
107-05-1	3-Chloro-1-propene	4.50606	
75-09-2	Methylene Chloride	5.24071	
67-64-1	Acetone	26.9980	
79-20-9	Methyl acetate	5.11895	
156-60-5	trans-1,2-Dichloroethene	5.39652	
110-54-3	Hexane	5.00084	
1634-04-4	Methyl t-Butyl Ether	4.76458	
75-65-0	tert.- Butyl Alcohol	26.3835	
75-05-8	Acetonitrile	26.5647	
108-20-3	Diisopropyl ether	4.64902	
126-99-8	Chloroprene	5.06181	
75-34-3	1,1-Dichloroethane	5.51333	
107-13-1	Acrylonitrile	24.8024	
637-92-3	Ethyl tert-butyl ether	4.47169	
71-23-8	n-Propanol	53.0785	J
108-05-4	Vinyl Acetate	4.20841	J
156-59-2	cis-1,2-Dichloroethene	5.30145	
594-20-7	2,2-Dichloropropane	5.15694	
74-97-5	Bromochloromethane	4.75087	
110-82-7	Cyclohexane	5.99614	
67-66-3	Chloroform	5.86191	
141-78-6	Ethyl Acetate	4.63601	
96-33-3	Methyl acrylate	4.68903	
56-23-5	Carbon Tetrachloride	5.32435	
109-99-9	Tetrahydrofuran	24.4943	
71-55-6	1,1,1-Trichloroethane	5.16873	
78-93-3	2-Butanone	26.6274	

Data File: 316102455.D Page 6
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1235
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
563-58-6	1,1-Dichloropropene	5.64694	
109-69-3	1-Chlorobutane	5.84834	
142-82-5	Heptane	4.89757	
71-43-2	Benzene	5.42687	
107-12-0	Propionitrile	25.4875	
126-98-7	Methacrylonitrile	5.03587	
994-05-8	tert-Amyl methyl ether	4.87002	
107-06-2	1,2-Dichloroethane	5.28320	
75-85-4	tert-Amyl Alcohol	21.7843	
78-83-1	Isobutyl alcohol	55.2435	J
107-39-1	Diisobutylene	6.77682	
79-01-6	Trichloroethene	5.51785	
108-87-2	Methyl cyclohexane	5.89290	
919-94-8	tert-Amyl Ethylether	4.48425	
74-95-3	Dibromomethane	5.07669	
78-87-5	1,2-Dichloropropane	4.99016	
75-27-4	Bromodichloromethane	4.48588	
80-62-6	Methyl methacrylate	4.09792	
123-91-1	1,4-Dioxane	120.749	J
110-75-8	2-Chloroethylvinyl ether	3.45759	
10061-01-5	cis-1,3-Dichloropropene	4.15473	
111-65-9	Octane	4.70949	J
108-88-3	Toluene	5.39713	
107-14-2	Chloroacetonitrile	21.0508	J
79-46-9	2-Nitropropane	18.5117	
513-88-2	1,1-Dichloro-2-Propanone	19.7526	J
108-10-1	4-Methyl-2-Pentanone(MIBK)	22.5913	
127-18-4	Tetrachloroethene	6.40061	
10061-02-6	trans-1,3-Dichloropropene	4.26371	
97-63-2	Ethyl Methacrylate	4.02947	
79-00-5	1,1,2-Trichloroethane	5.39868	
124-48-1	Chlorodibromomethane	4.20668	
142-28-9	1,3-Dichloropropane	5.28577	
106-93-4	1,2-Dibromoethane	4.83206	
591-78-6	2-Hexanone	20.5432	
544-10-5	1-Chlorohexane	5.07295	
108-90-7	Chlorobenzene	5.67543	
100-41-4	Ethylbenzene	5.72338	
630-20-6	1,1,1,2-Tetrachloroethane	4.98751	
108383/106423	m-p-Xylene	10.9242	
95-47-6	o-Xylene	4.93441	
100-42-5	Styrene	4.91679	

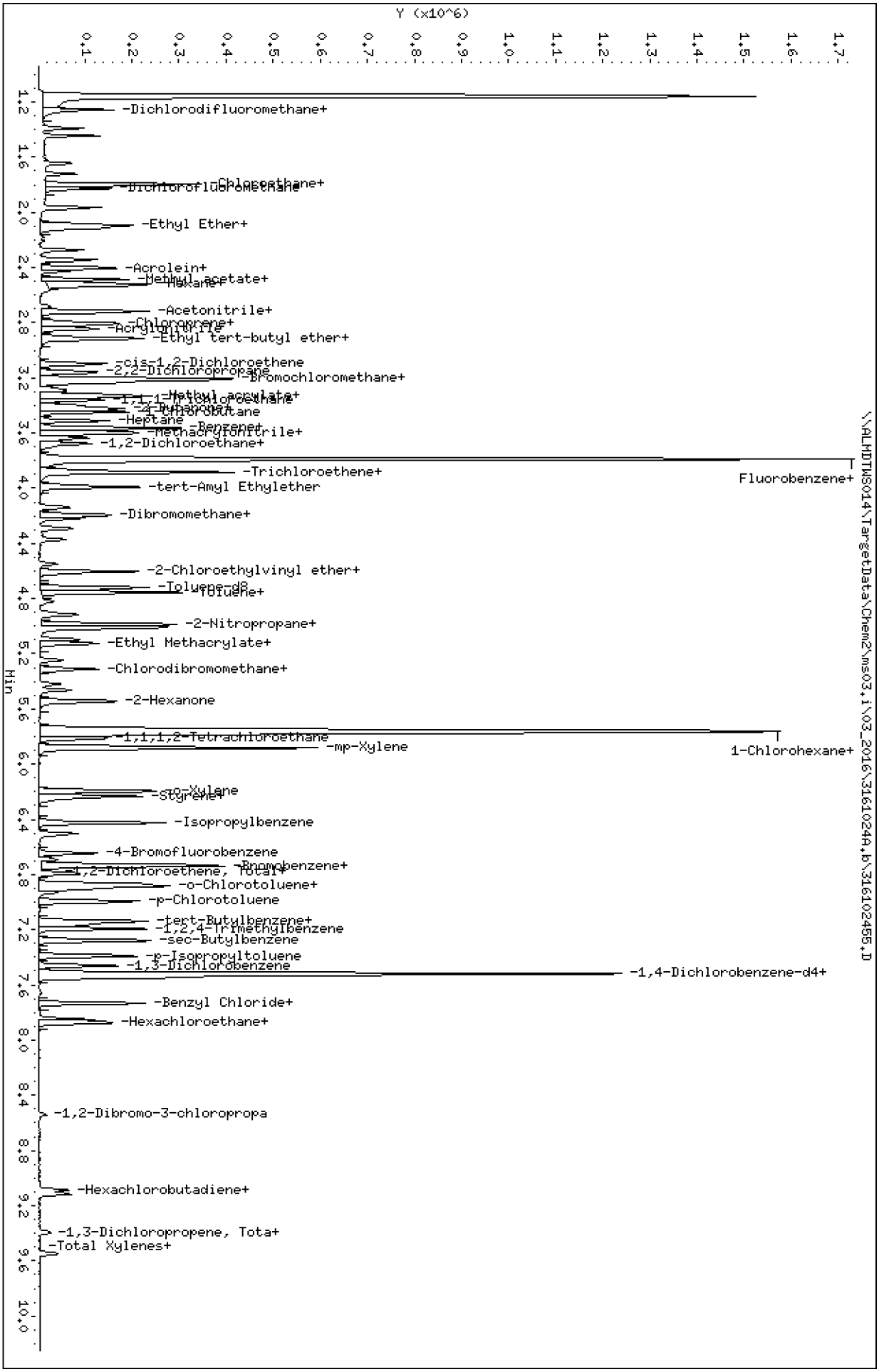
Data File: 316102455.D Page 7
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1235
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-25-2	Bromoform	4.09499	
98-82-8	Isopropylbenzene	5.35267	
108-86-1	Bromobenzene	5.47376	
103-65-1	n-Propylbenzene	5.23707	
79-34-5	1,1,2,2-Tetrachloroethane	5.22071	
95-49-8	o-Chlorotoluene	5.47627	
108-67-8	1,3,5-Trimethylbenzene	5.09809	
96-18-4	1,2,3-Trichloropropane	5.32925	
110-57-6	trans-1,4-Dichloro-2-butene	4.28306	
540-59-0	1,2-Dichloroethene, Total	10.6980	
106-43-4	p-Chlorotoluene	5.34408	
98-06-6	tert-Butylbenzene	5.41204	
76-01-7	Pentachloroethane	4.82343	
95-63-6	1,2,4-Trimethylbenzene	5.11496	
135-98-8	sec-Butylbenzene	5.18551	
99-87-6	p-Isopropyltoluene	4.77453	
541-73-1	1,3-Dichlorobenzene	5.73183	
106-46-7	1,4-Dichlorobenzene	5.77243	
100-44-7	Benzyl Chloride	3.26328	
104-51-8	n-Butylbenzene	4.59482	
67-72-1	Hexachloroethane	4.50141	
95-50-1	1,2-Dichlorobenzene	5.44857	
96-12-8	1,2-Dibromo-3-chloropropane	4.52665	J
98-95-3	Nitrobenzene	102.889	
87-68-3	Hexachlorobutadiene	5.58003	
120-82-1	1,2,4-Trichlorobenzene	4.19371	
91-20-3	Naphthalene	2.54318	
87-61-6	1,2,3-Trichlorobenzene	4.10567	
542-75-6	1,3-Dichloropropene, Total	8.41843	
1330-20-7	Total Xylenes	15.8586	
1868-53-7	Dibromofluoromethane	5.12171	
17060-07-0	1,2-Dichloroethane-d4	5.33132	
2037-26-5	Toluene-d8	4.94876	
460-00-4	4-Bromofluorobenzene	4.82802	


Y (x10^6)
Min
-Dichlorodifluoromethane+
-Chloroethane+
-Dichlorofluoromethane
-Ethyl Ether+
-Acrolein+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Acrylonitrile
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Methyl acrylate+
-Tetrahydrofuran
-Heptane
-Benzene+
-Methacrylonitrile+
-1,2-Dichloroethane+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane+
-2-Chloroethylvinyl ether+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-Ethyl Methacrylate+
-Chlorodibromomethane+
-2-Hexanone
-1,1,1,2-Tetrachloroethane
-mp-Xylene
-o-Xylene
-Styrene+
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-1,2-Dichloroethene, Total+
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-Benzyl Chloride+
-Hexachloroethane+
-1,2-Dibromo-3-chloropropa
-Hexachlorobutadiene+
-1,3-Dichloropropene, Tota+
-Total Xylenes+
Fluorobenzene+
1-Chlorohexane+
-1,4-Dichlorobenzene-d4+
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S5.D
Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S5.D
Date : 25-OCT-2016 00:08
Client ID:
Sample Info: 1235;;1;1;2;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
Page 8

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 9

Date : 25-OCT-2016 00:08

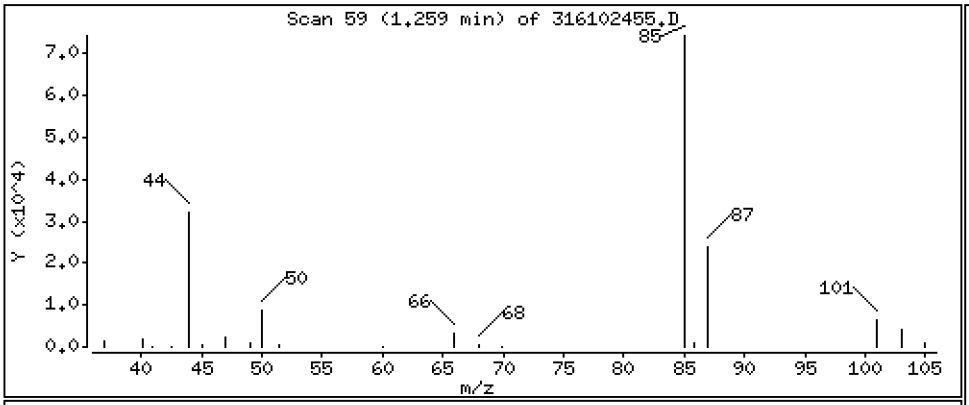
Client ID: Instrument: ms03.i

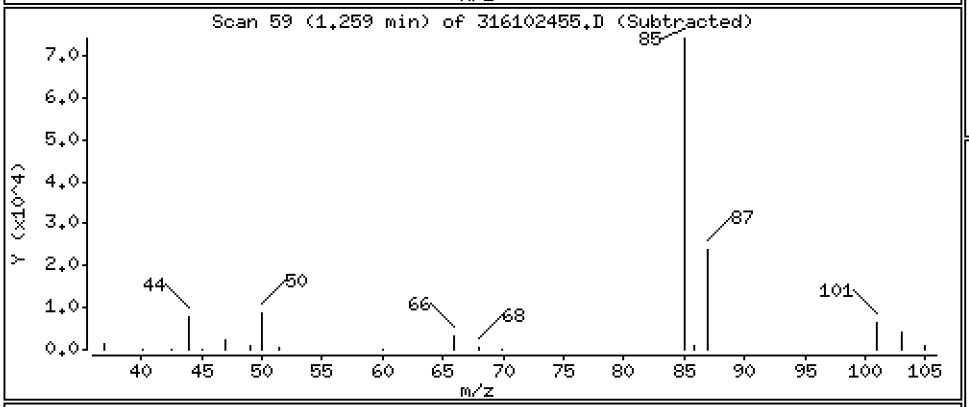
Sample Info: 1235;;1;1;2;;;

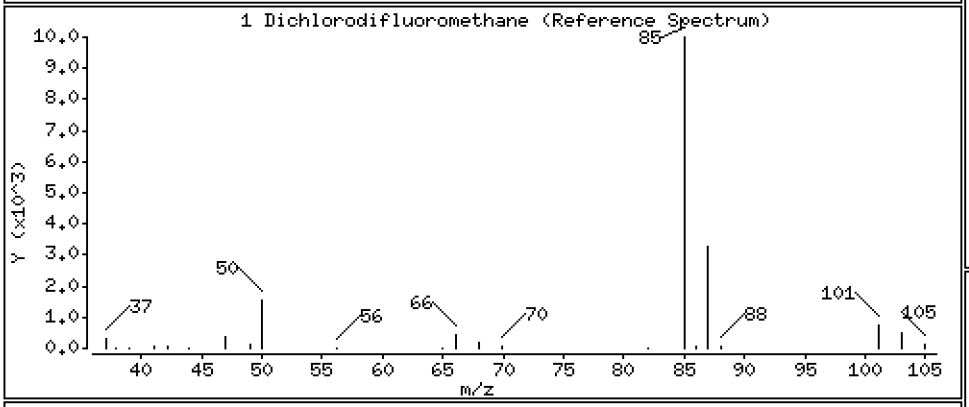
Purge Volume: 5.0 Operator: CJG

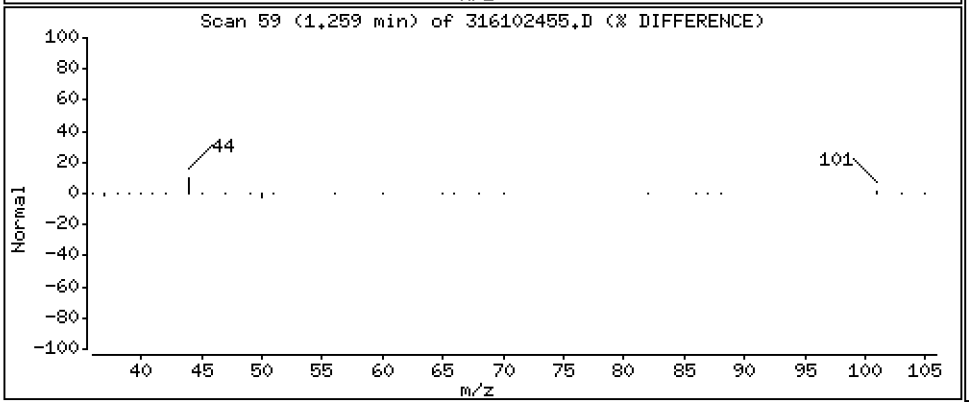
Column phase: DB-VRX Column diameter: 0.25

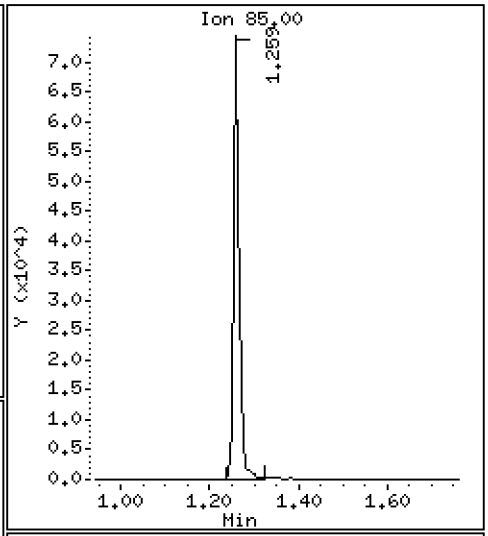
1 Dichlorodifluoromethane Concentration: 5.66983 ug/L

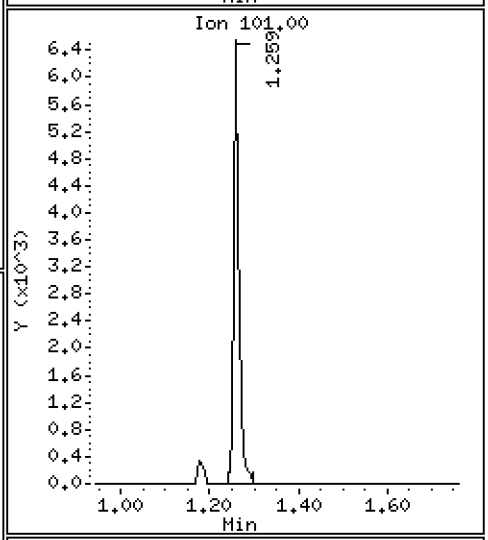


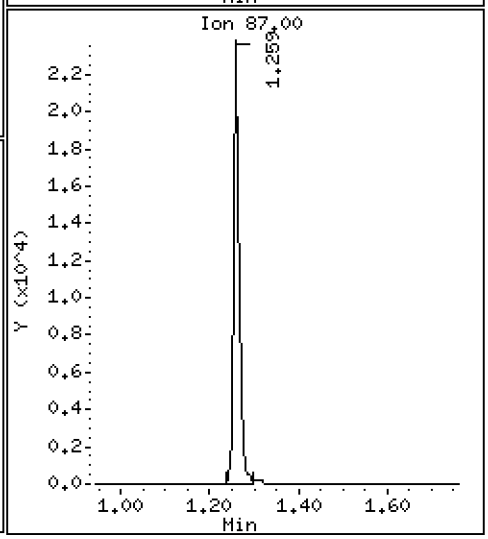












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 10

Date : 25-OCT-2016 00:08

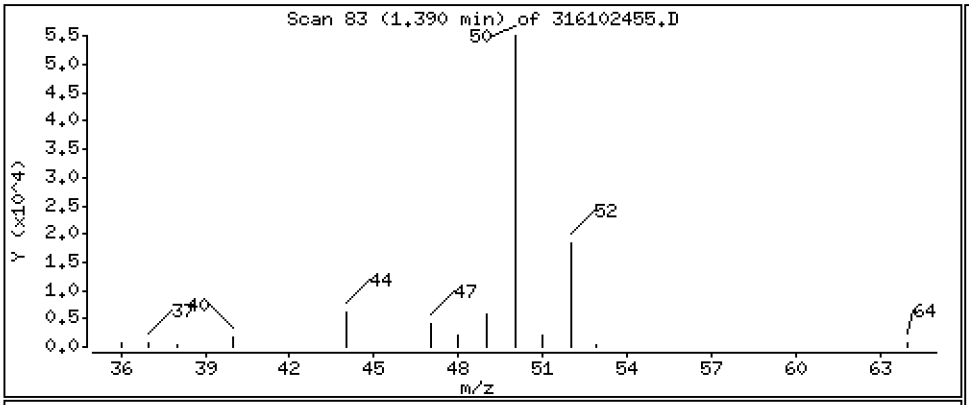
Client ID: Instrument: ms03.i

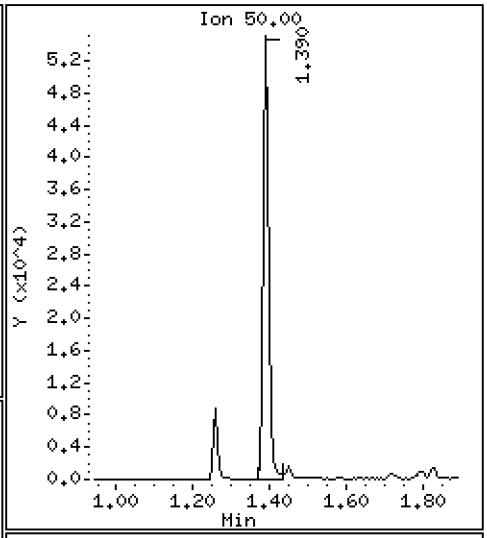
Sample Info: 1235;;1;1;2;;;

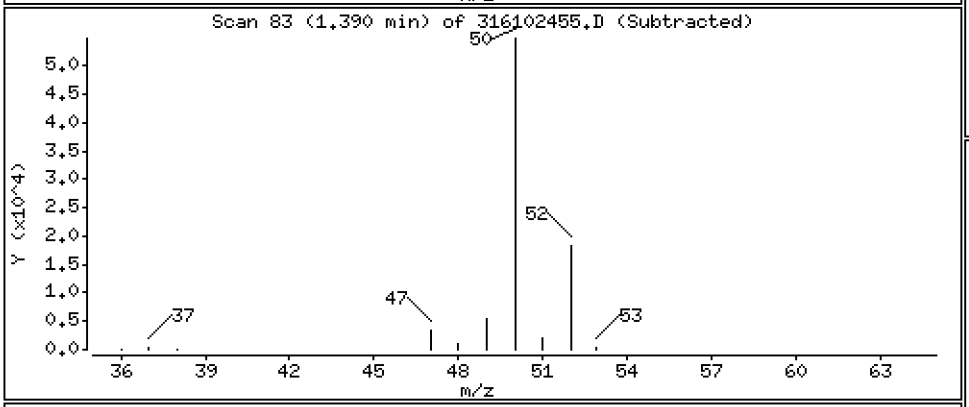
Purge Volume: 5.0 Operator: CJG

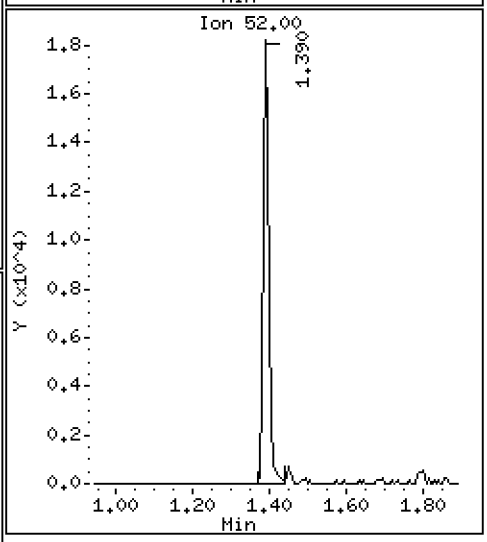
Column phase: DB-VRX Column diameter: 0.25

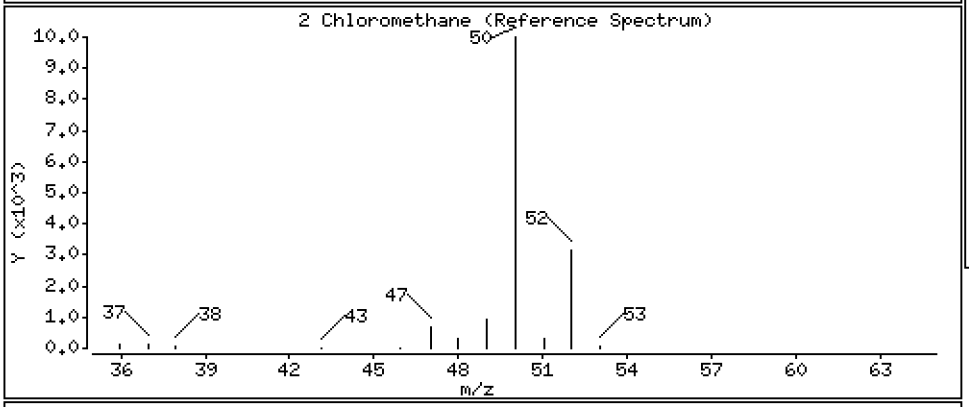
2 Chloromethane Concentration: 5.51749 ug/L

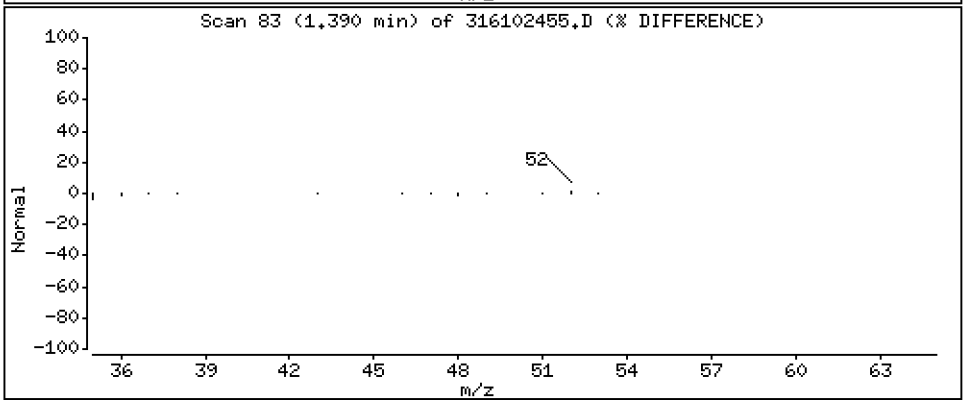












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 11

Date : 25-OCT-2016 00:08

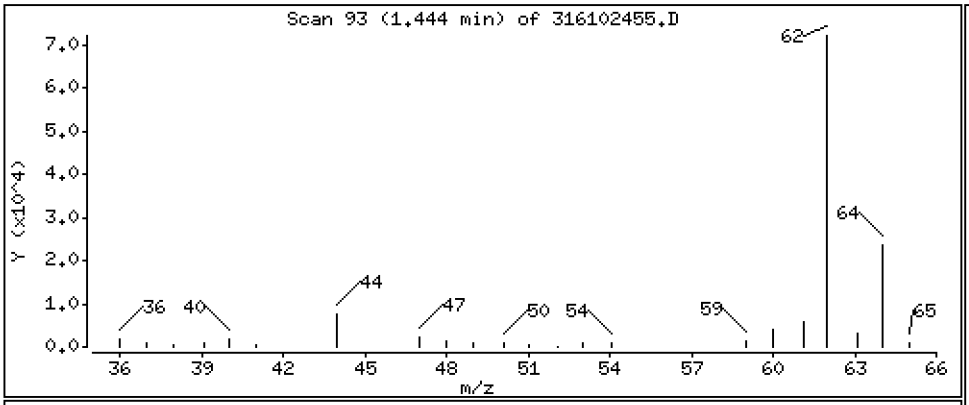
Client ID: Instrument: ms03.i

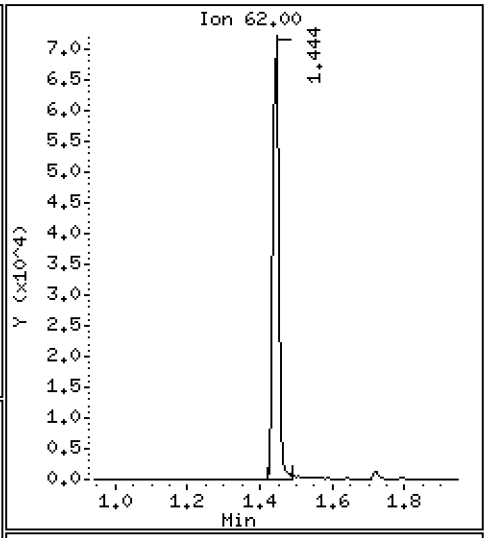
Sample Info: 1235;;1;1;2;;;

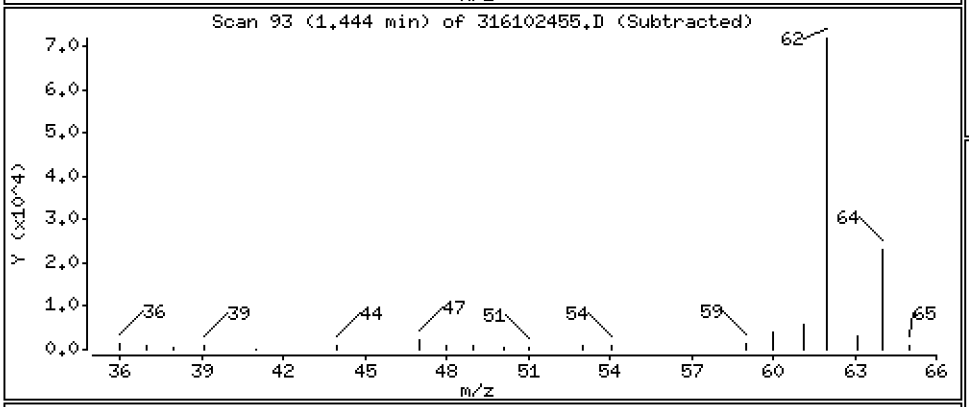
Purge Volume: 5.0 Operator: CJG

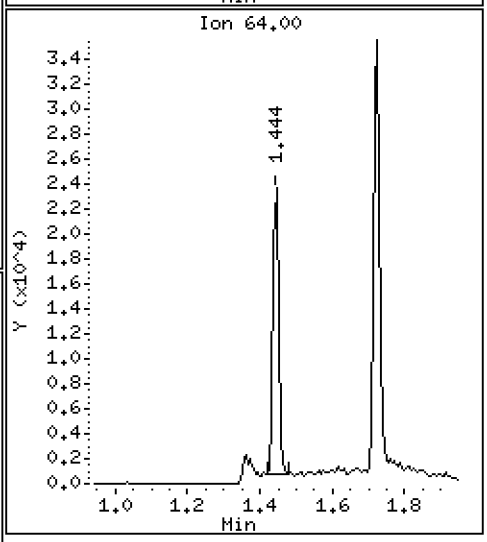
Column phase: DB-VRX Column diameter: 0.25

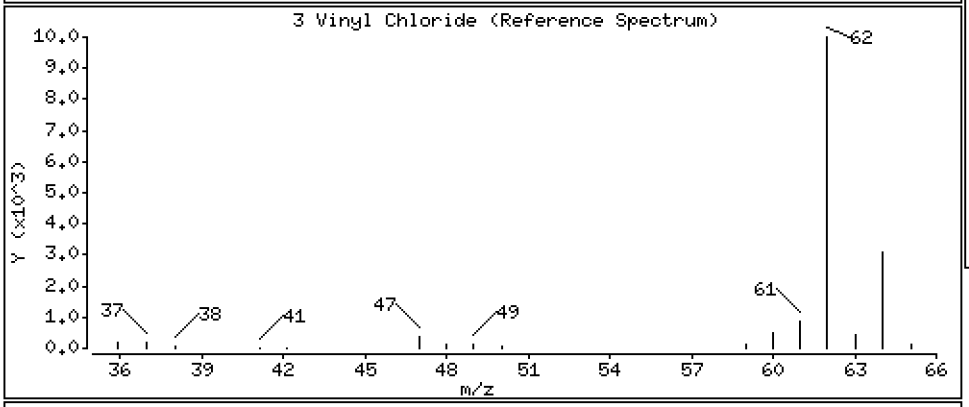
3 Vinyl Chloride Concentration: 5.35999 ug/L

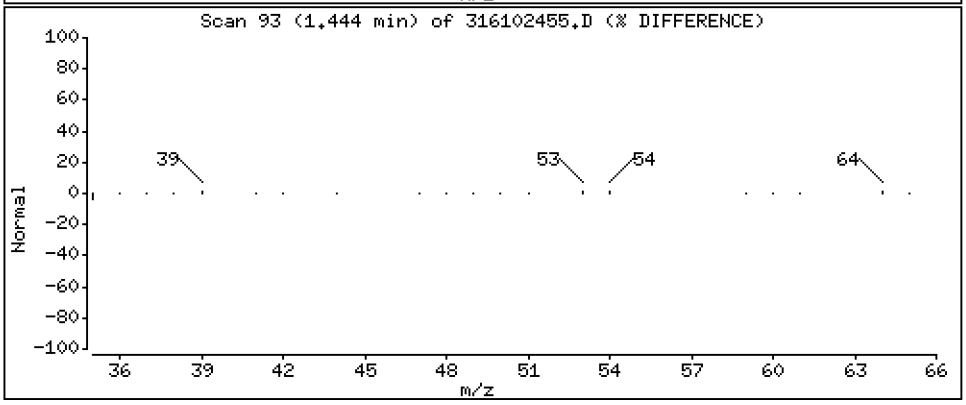












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 12

Date : 25-OCT-2016 00:08

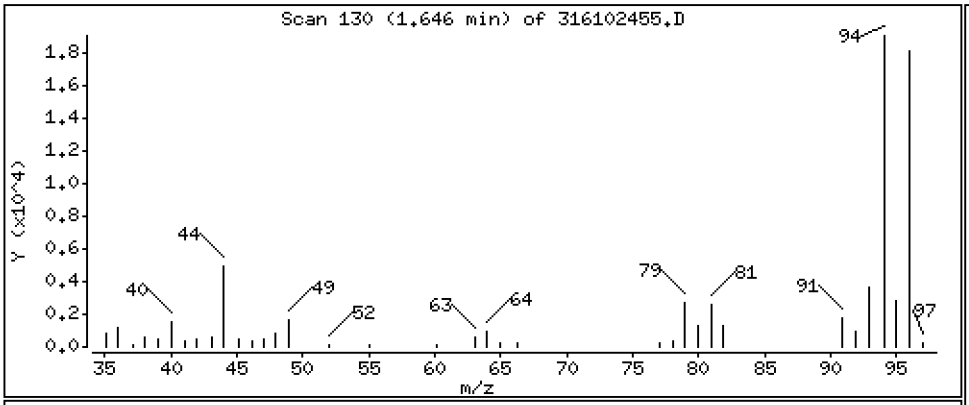
Client ID: Instrument: ms03.i

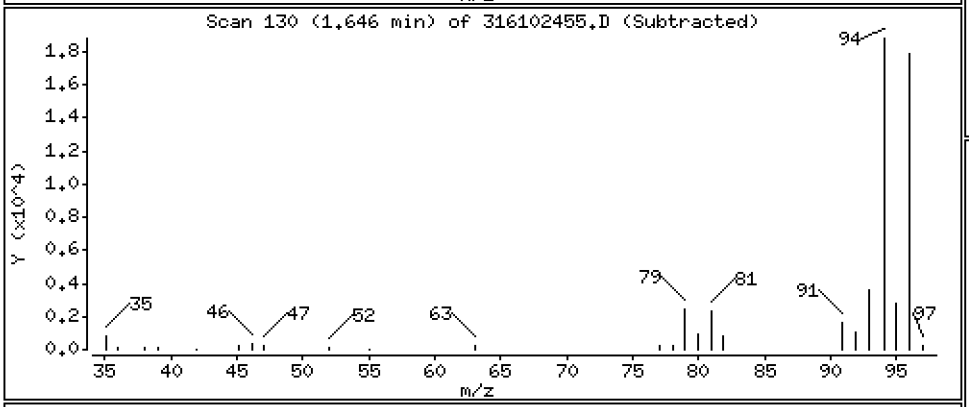
Sample Info: 1235;;1;1;2;;;

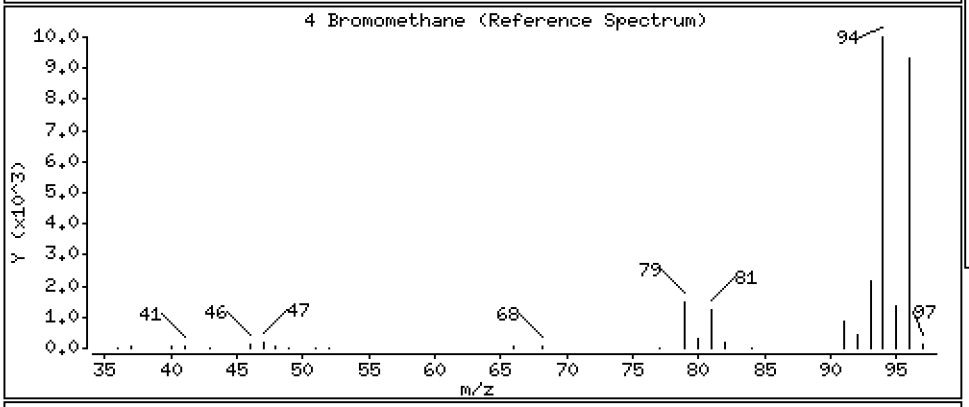
Purge Volume: 5.0 Operator: CJG

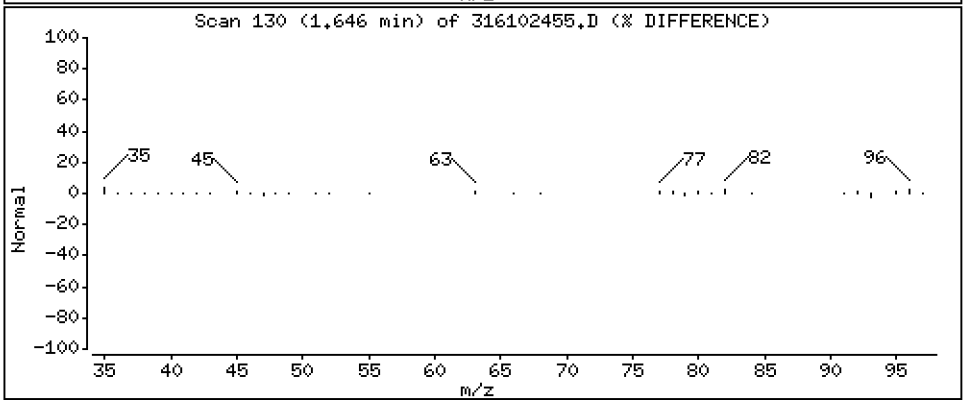
Column phase: DB-VRX Column diameter: 0.25

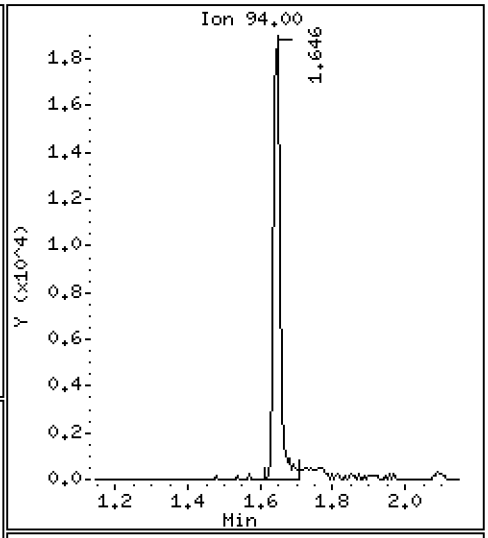
4 Bromomethane Concentration: 5.27260 ug/L

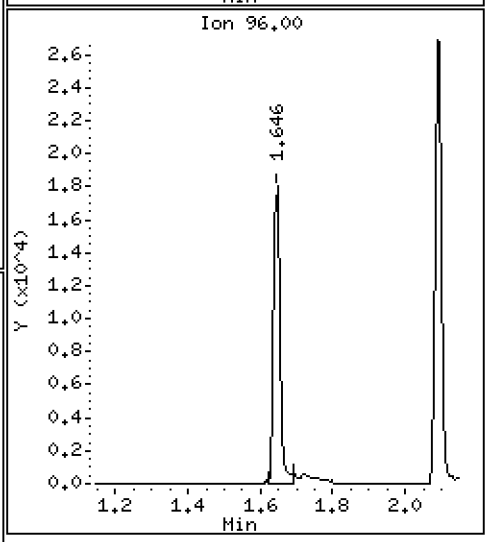












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 13

Date : 25-OCT-2016 00:08

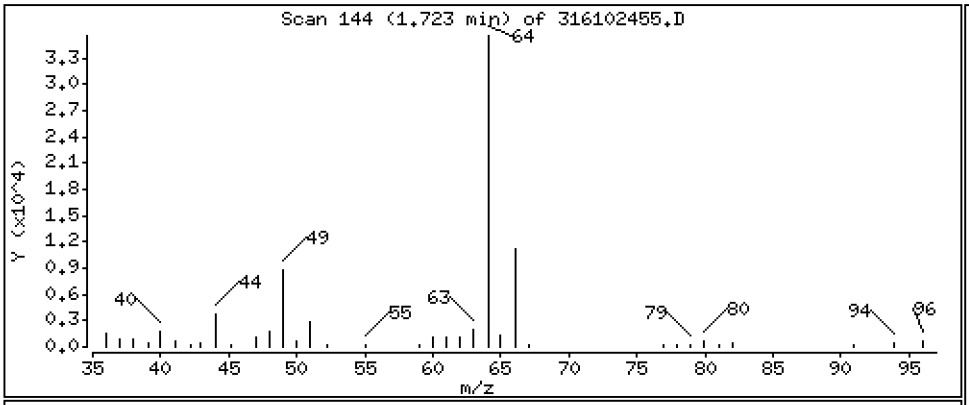
Client ID: Instrument: ms03.i

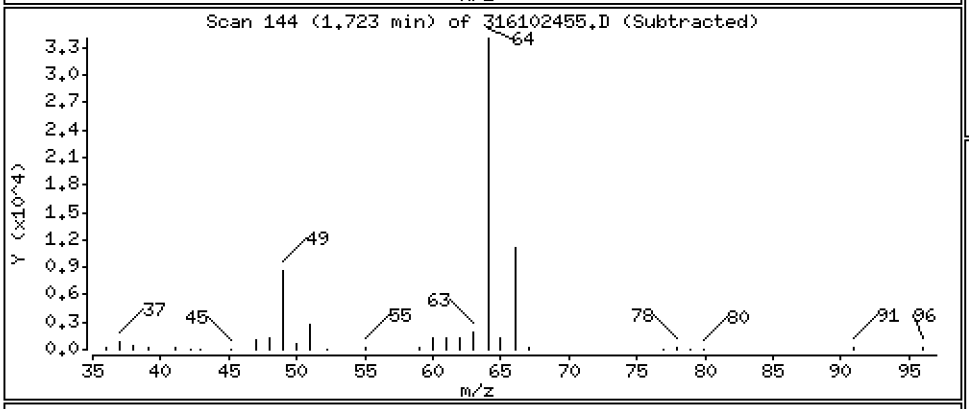
Sample Info: 1235;;1;1;2;;;

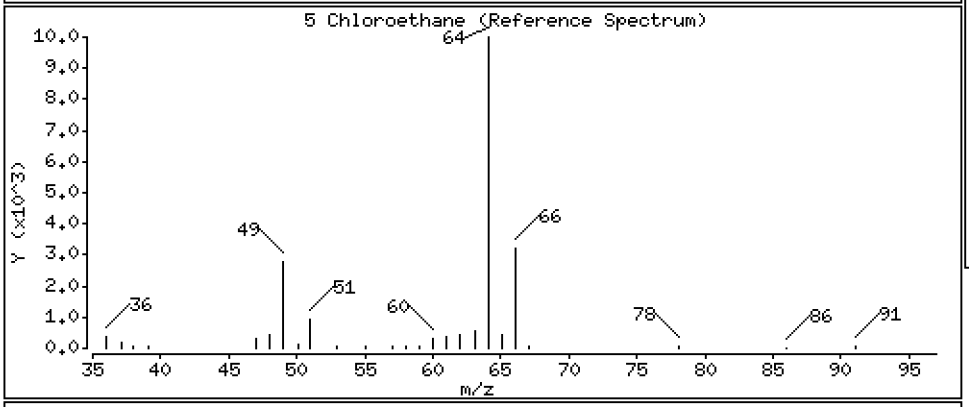
Purge Volume: 5.0 Operator: CJG

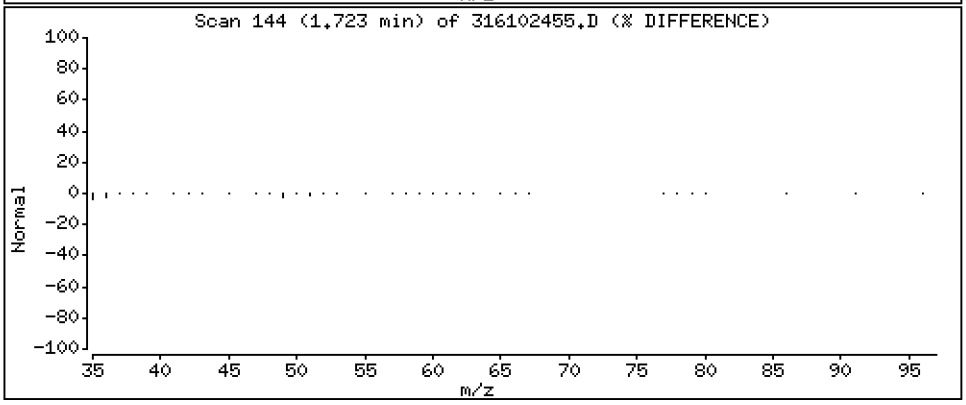
Column phase: DB-VRX Column diameter: 0.25

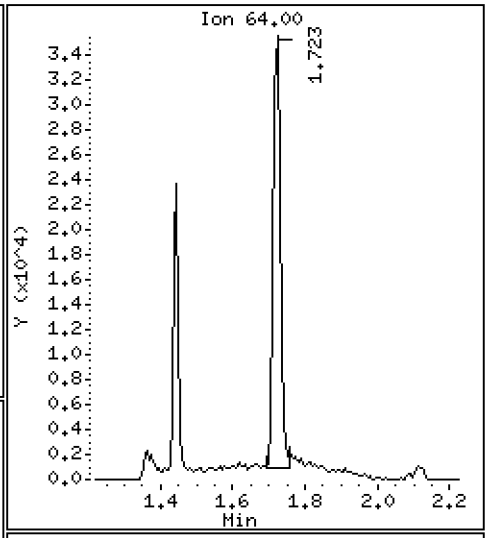
5 Chloroethane Concentration: 5.51071 ug/L

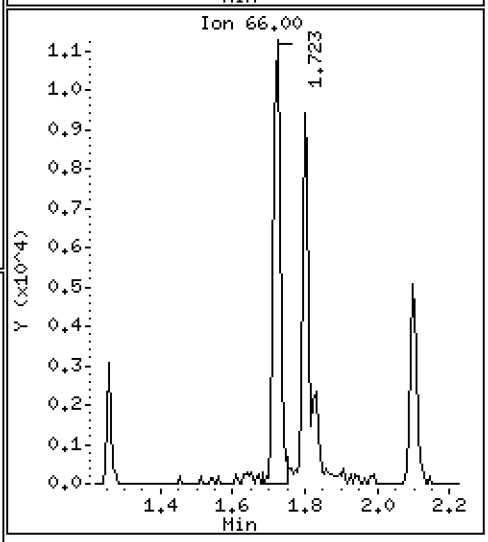












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 14

Date : 25-OCT-2016 00:08

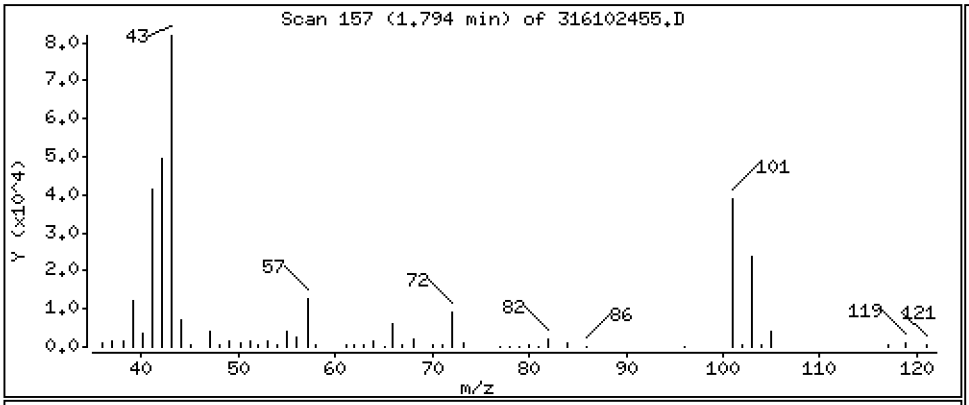
Client ID: Instrument: ms03.i

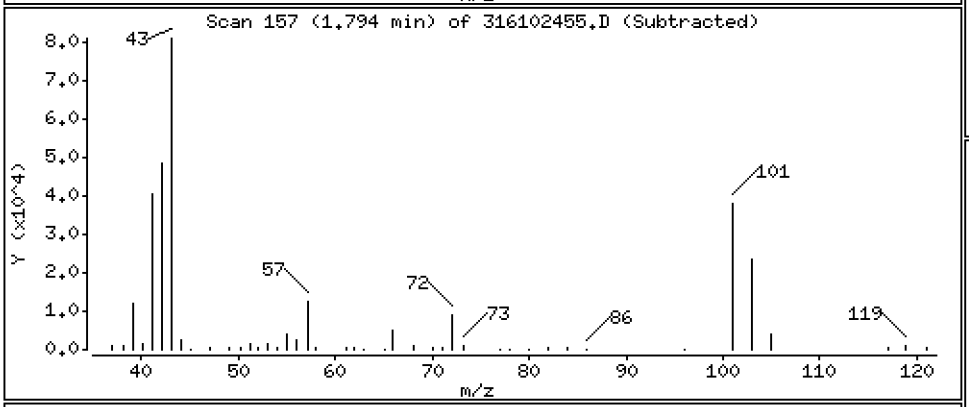
Sample Info: 1235;;1;1;2;;;

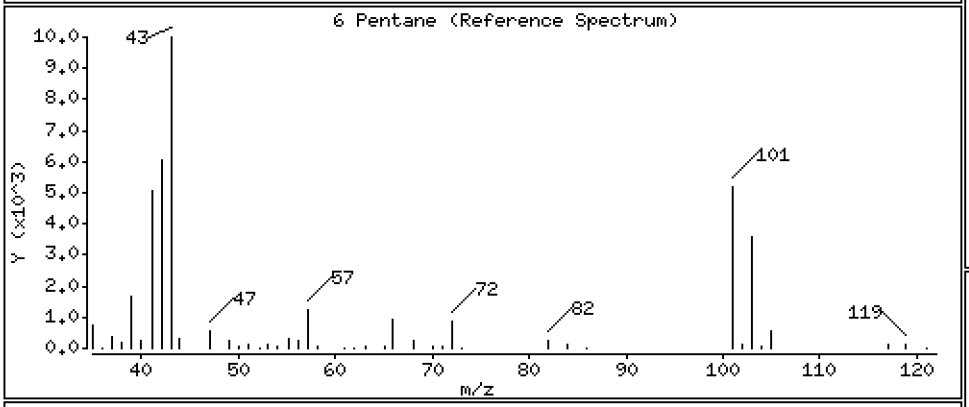
Purge Volume: 5.0 Operator: CJG

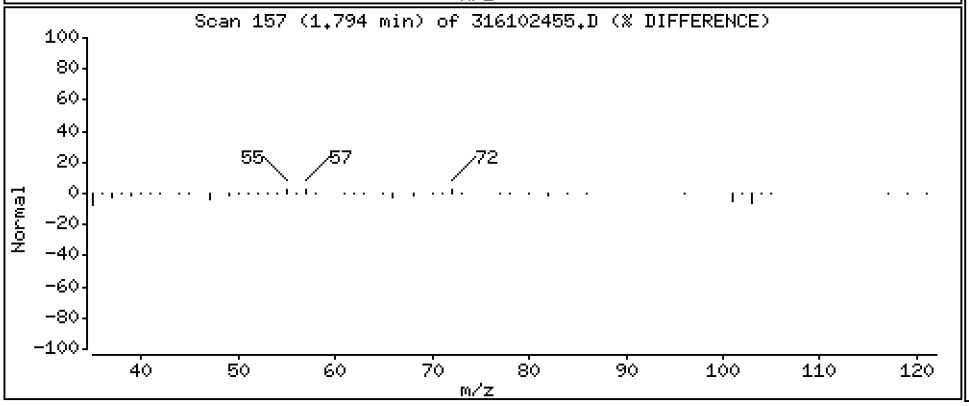
Column phase: DB-VRX Column diameter: 0.25

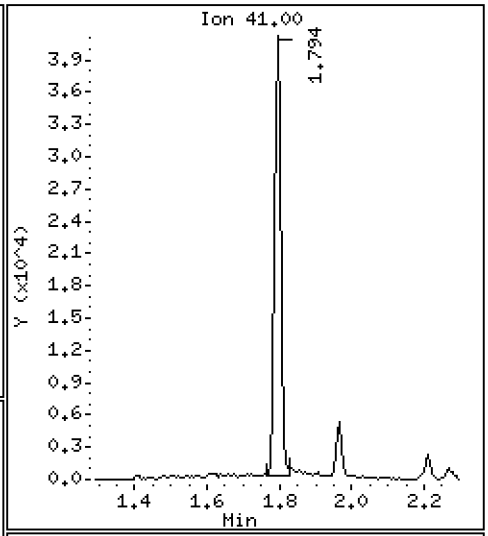
6 Pentane Concentration: 6.42848 ug/L

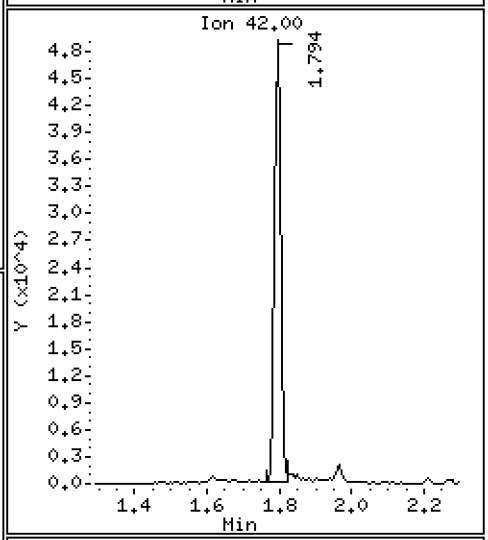


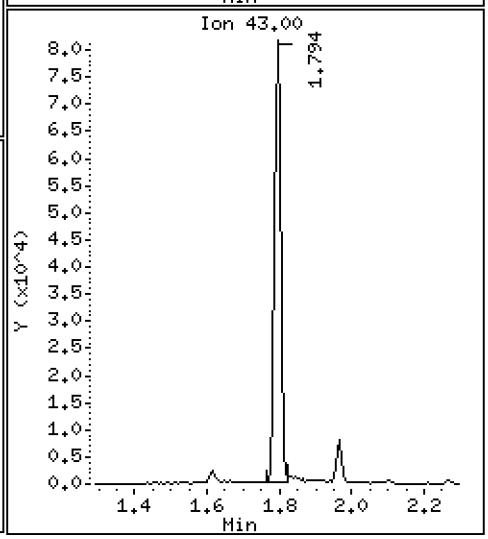












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 15

Date : 25-OCT-2016 00:08

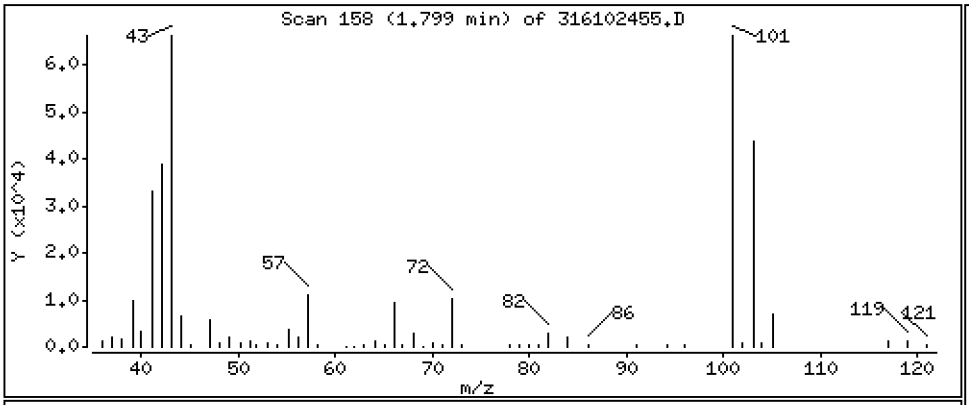
Client ID: Instrument: ms03.i

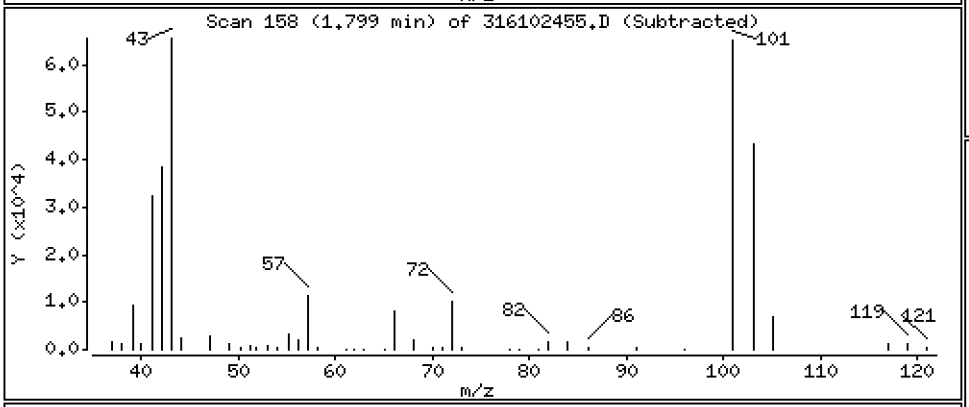
Sample Info: 1235;;1;1;2;;;

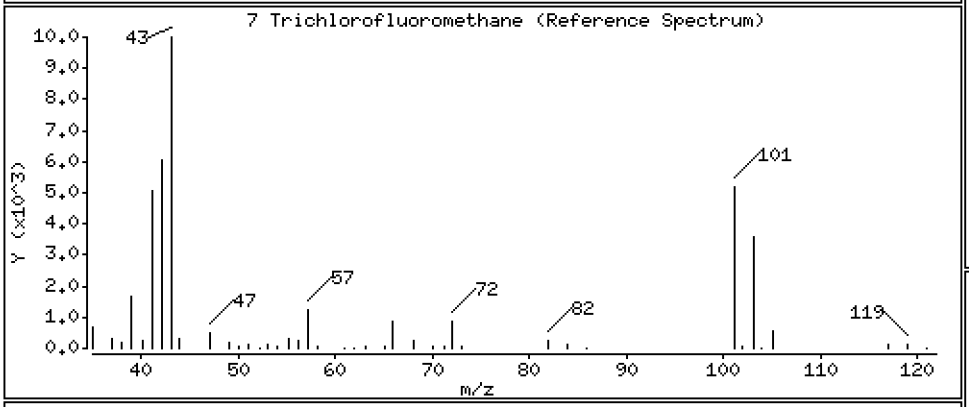
Purge Volume: 5.0 Operator: CJG

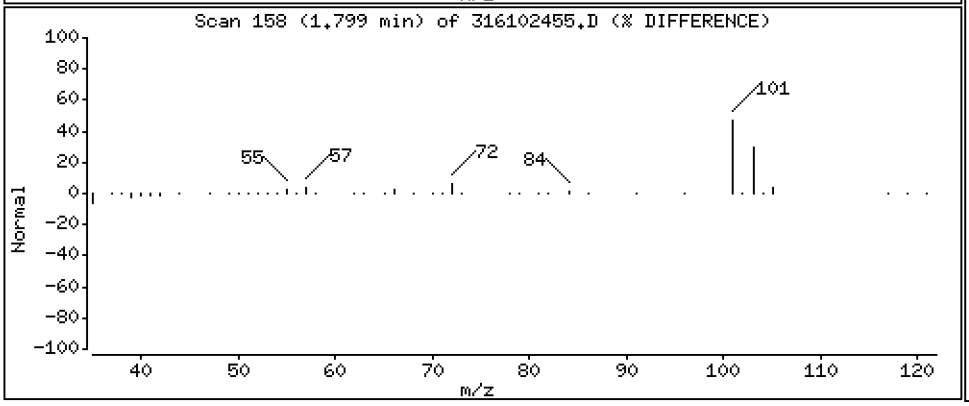
Column phase: DB-VRX Column diameter: 0.25

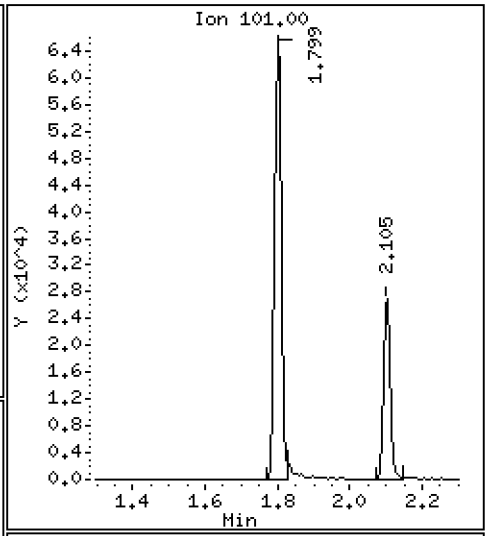
7 Trichlorofluoromethane Concentration: 5.83139 ug/L

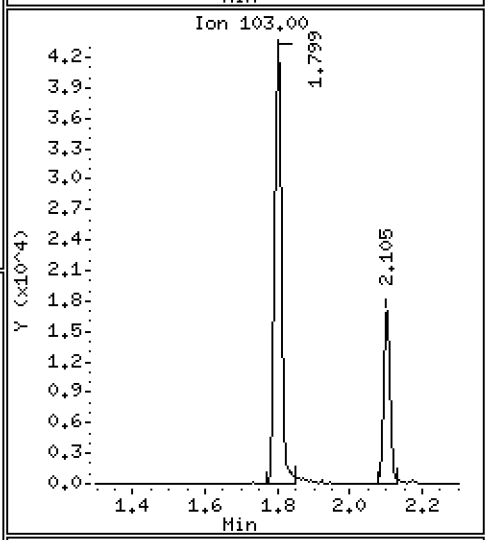


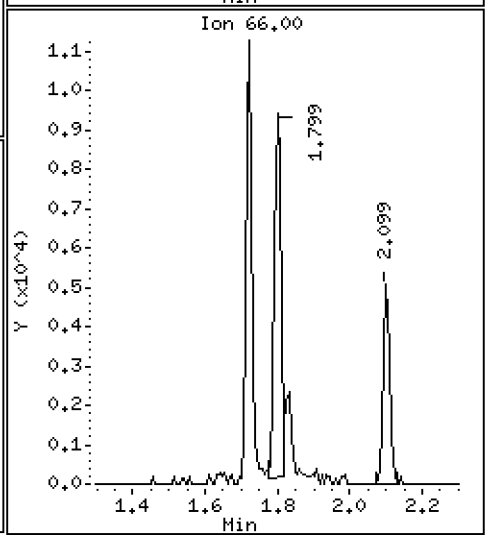












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 16

Date : 25-OCT-2016 00:08

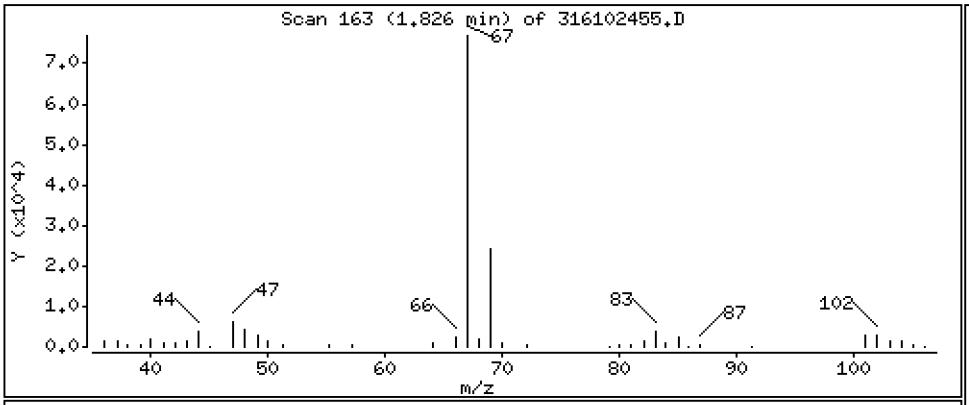
Client ID: Instrument: ms03.i

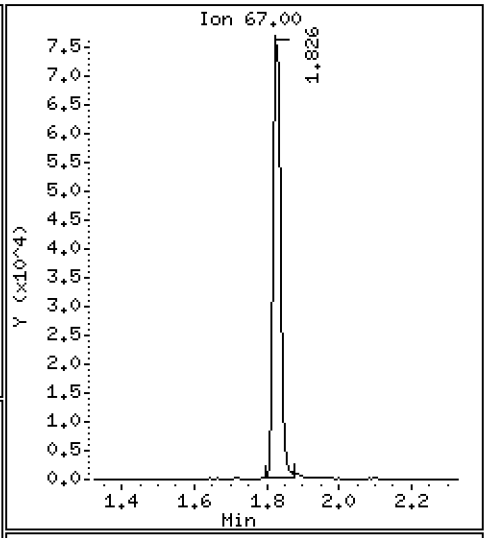
Sample Info: 1235;;1;1;2;;;

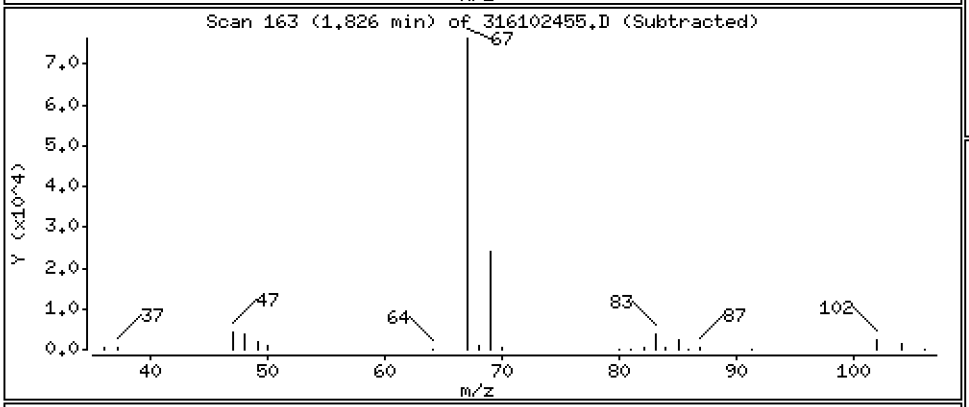
Purge Volume: 5.0 Operator: CJG

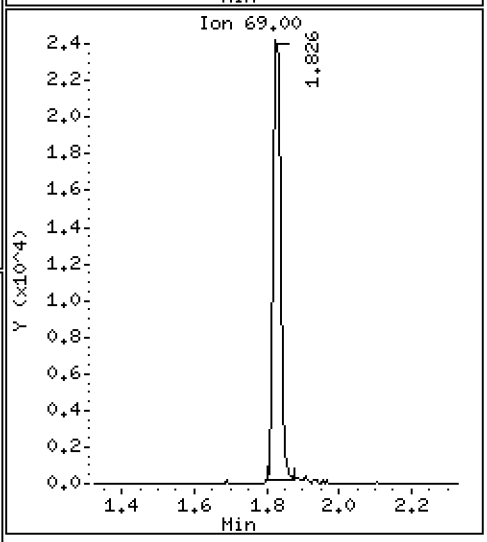
Column phase: DB-VRX Column diameter: 0.25

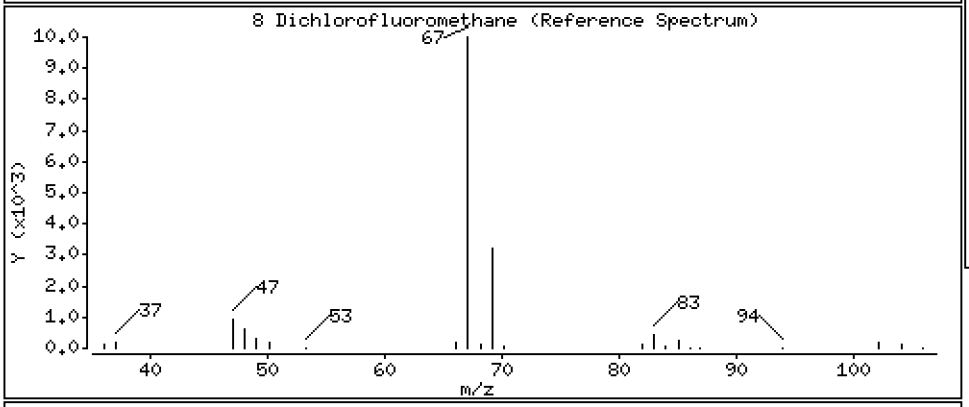
8 Dichlorofluoromethane Concentration: 5.55616 ug/L

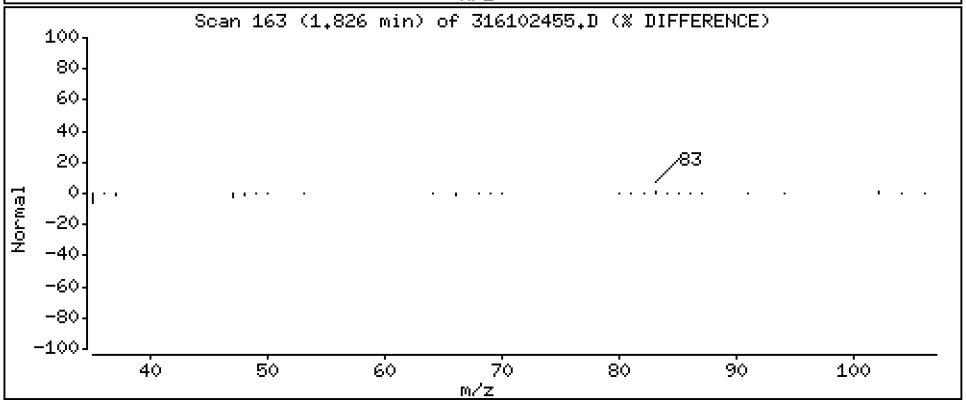












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 17

Date : 25-OCT-2016 00:08

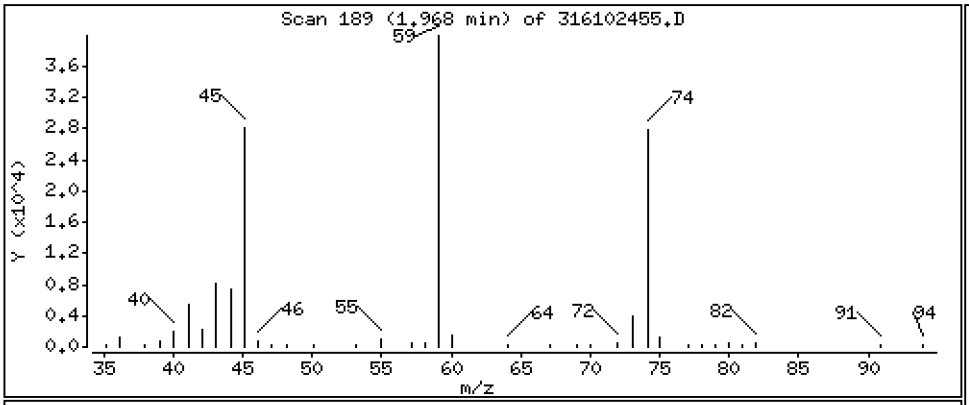
Client ID: Instrument: ms03.i

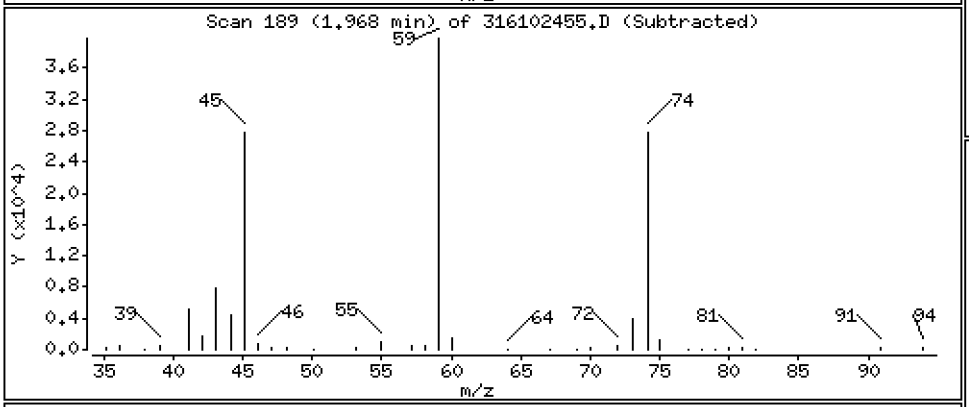
Sample Info: 1235;;1;1;2;;;

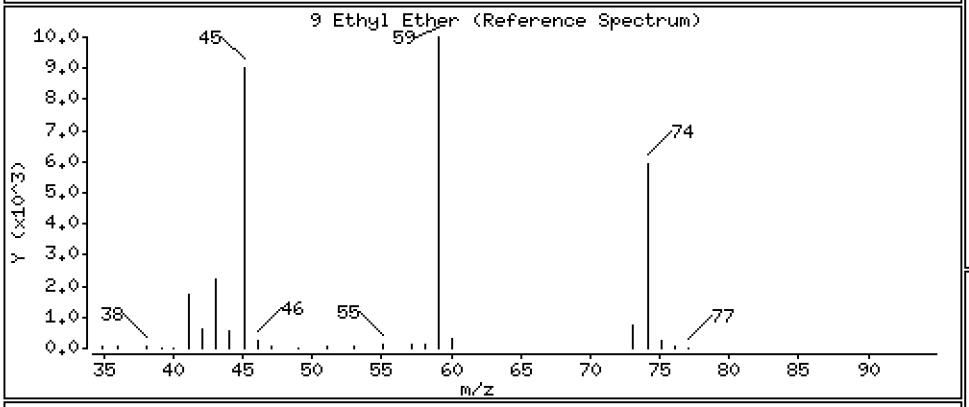
Purge Volume: 5.0 Operator: CJG

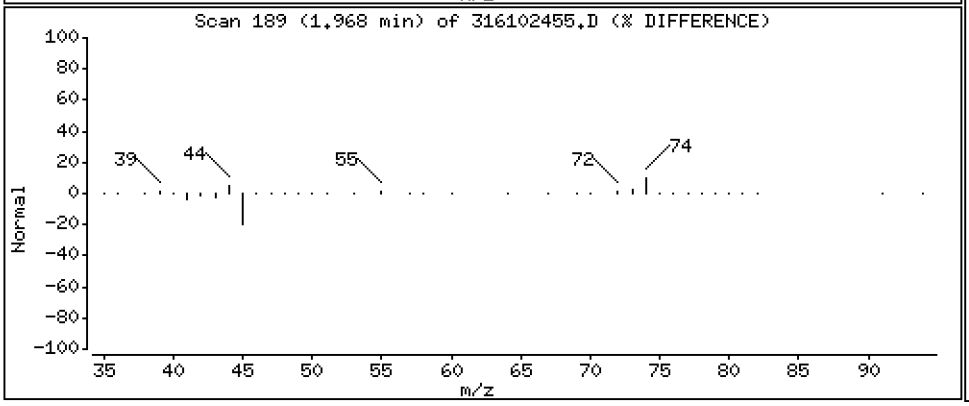
Column phase: DB-VRX Column diameter: 0.25

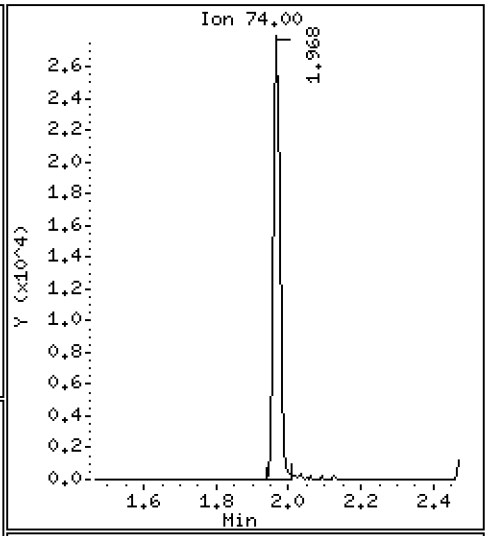
9 Ethyl Ether Concentration: 5.53817 ug/L

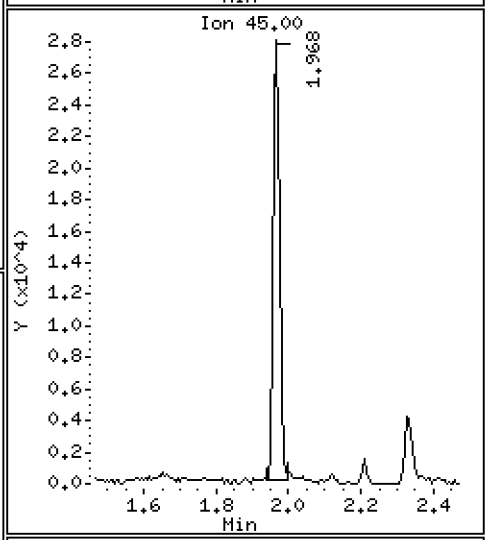


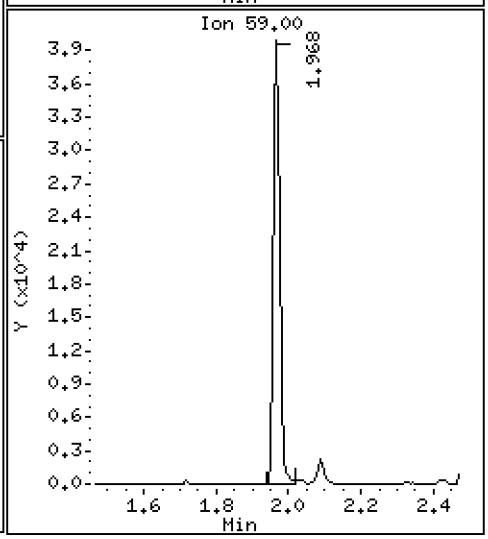












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 18

Date : 25-OCT-2016 00:08

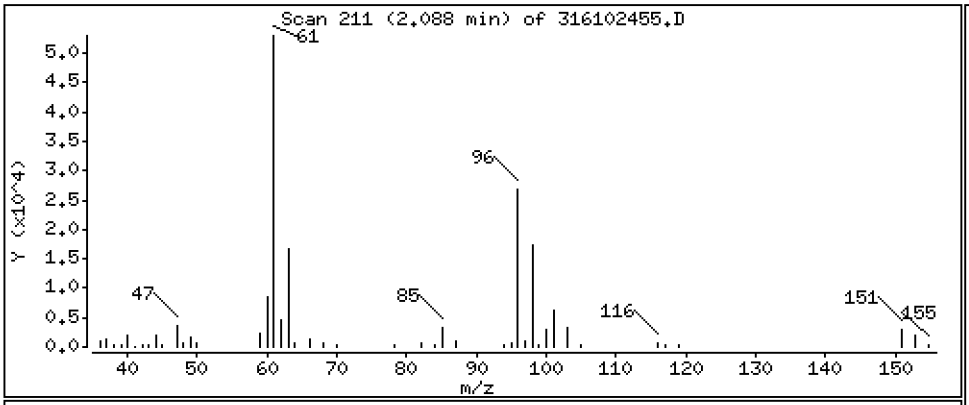
Client ID: Instrument: ms03.i

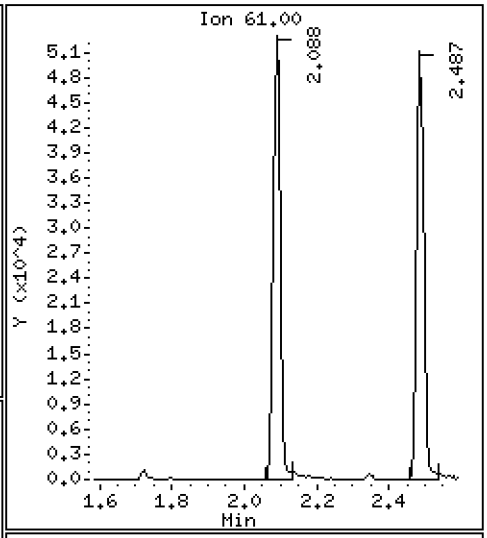
Sample Info: 1235;;1;1;2;;;

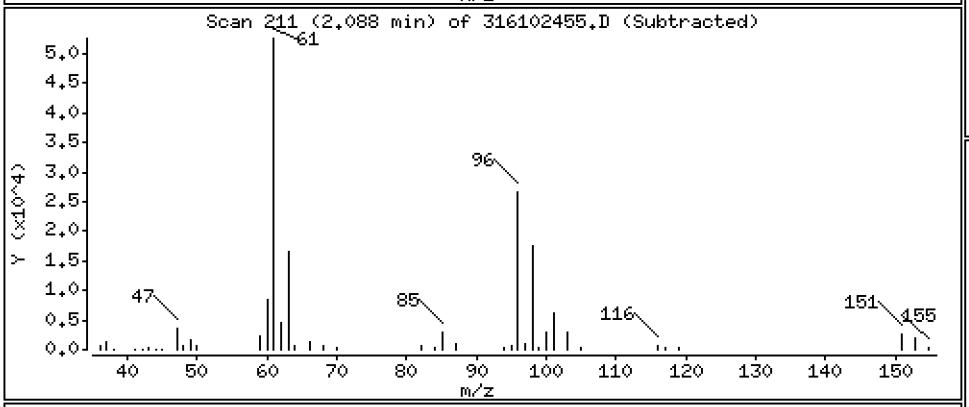
Purge Volume: 5.0 Operator: CJG

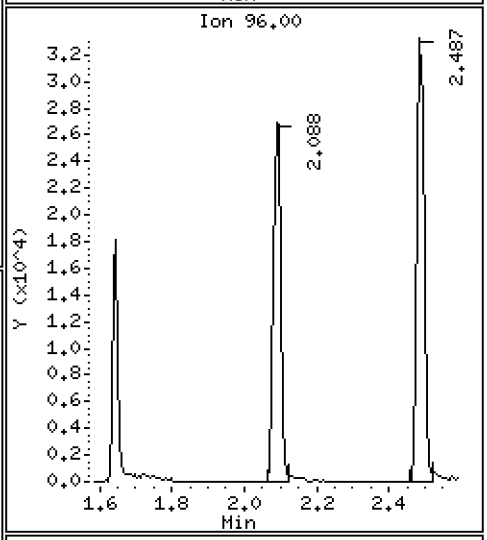
Column phase: DB-VRX Column diameter: 0.25

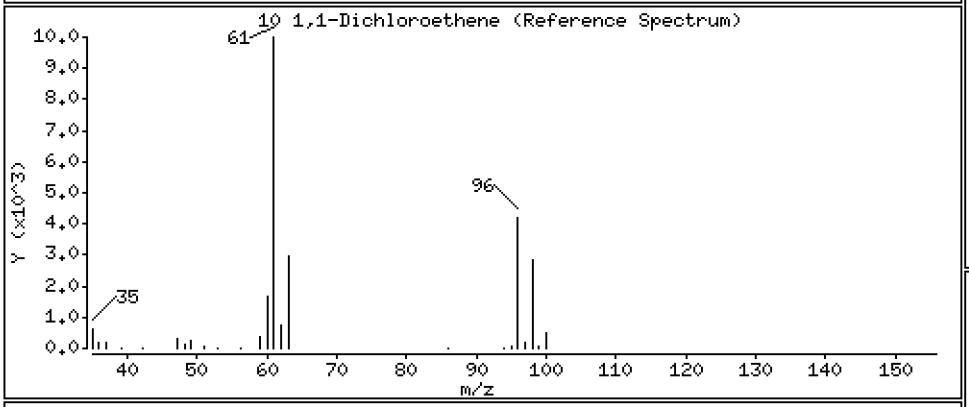
10 1,1-Dichloroethene Concentration: 5.43008 ug/L

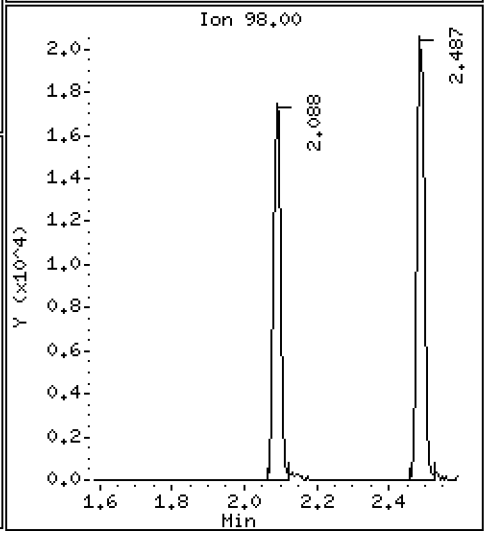


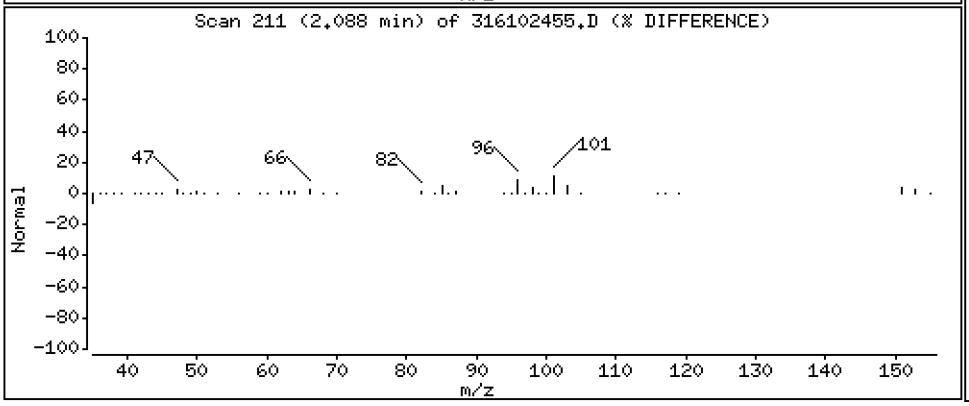












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 19

Date : 25-OCT-2016 00:08

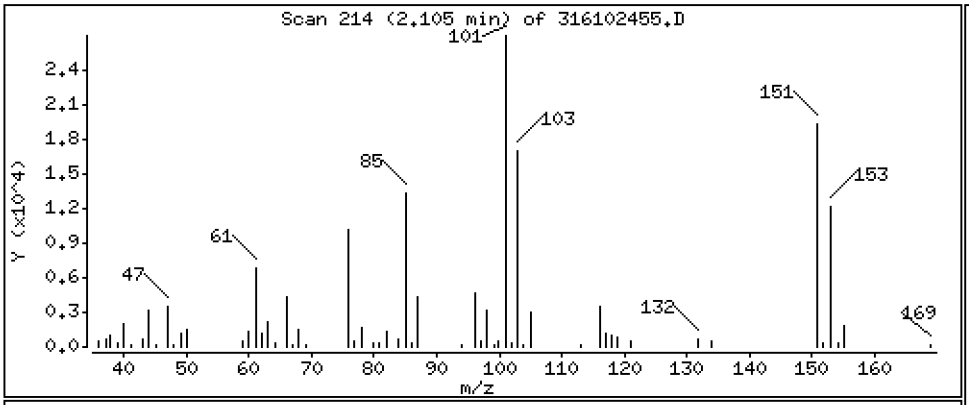
Client ID: Instrument: ms03.i

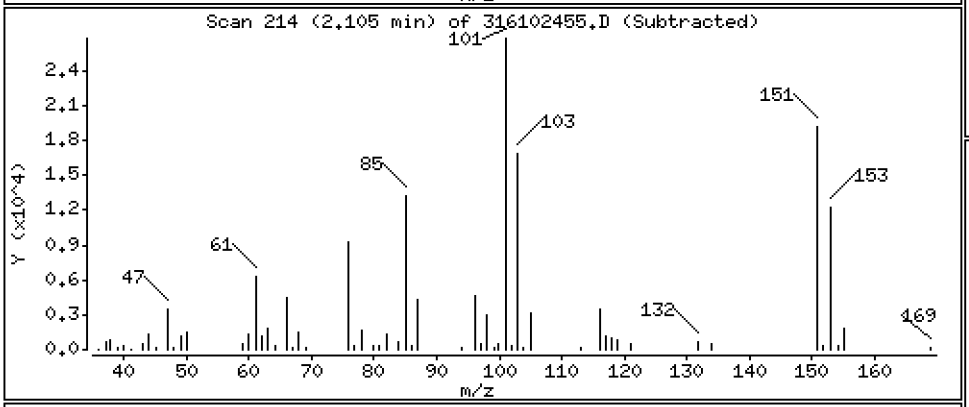
Sample Info: 1235;;1;1;2;;;

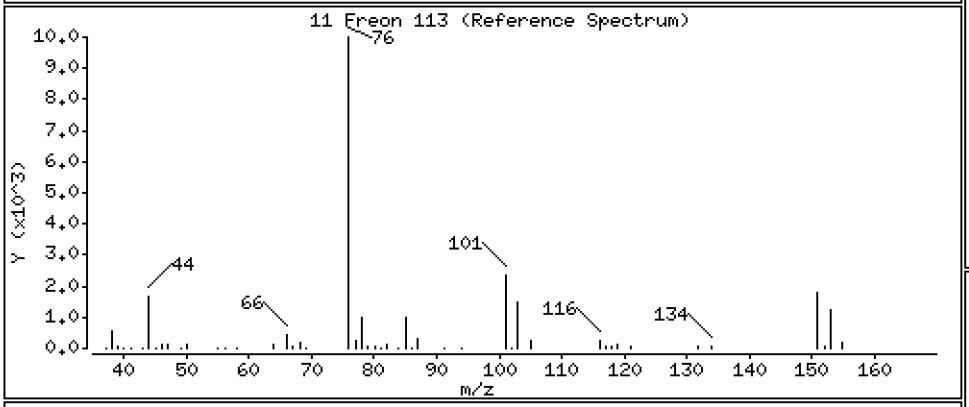
Purge Volume: 5.0 Operator: CJG

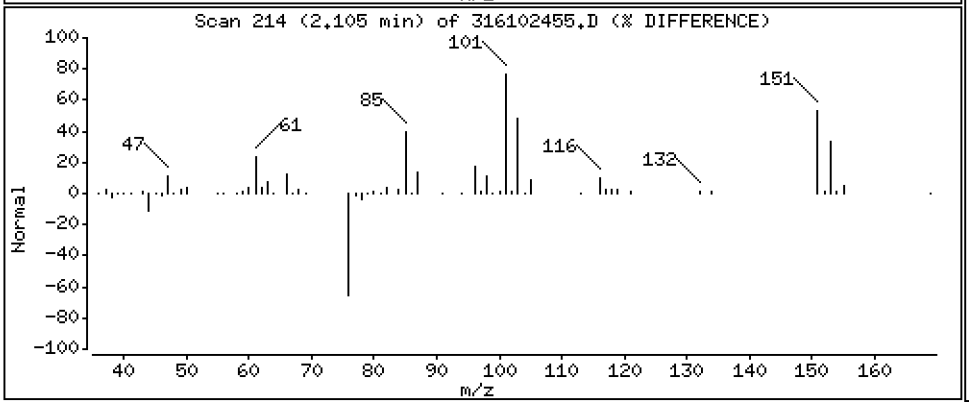
Column phase: DB-VRX Column diameter: 0.25

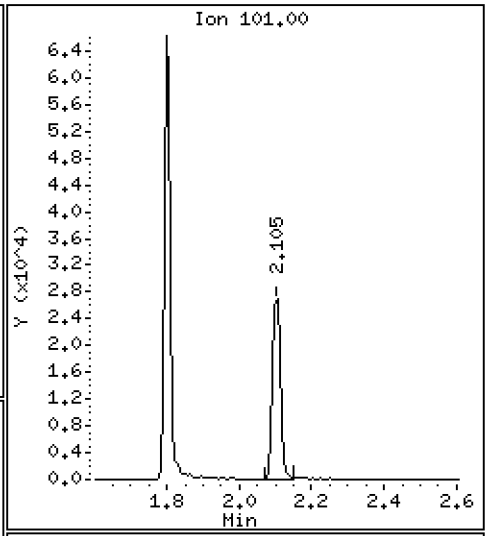
11 Freon 113 Concentration: 6.10634 ug/L

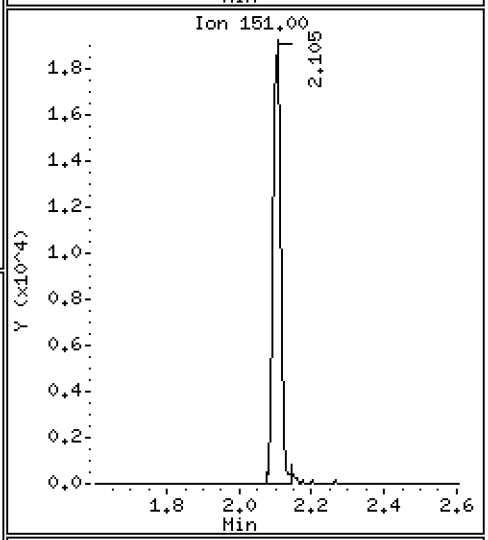


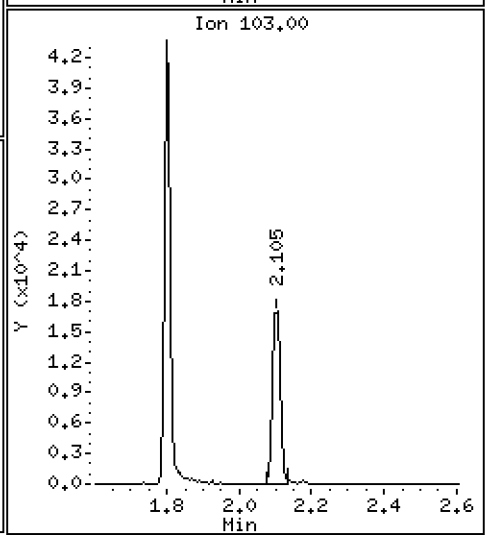












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 20

Date : 25-OCT-2016 00:08

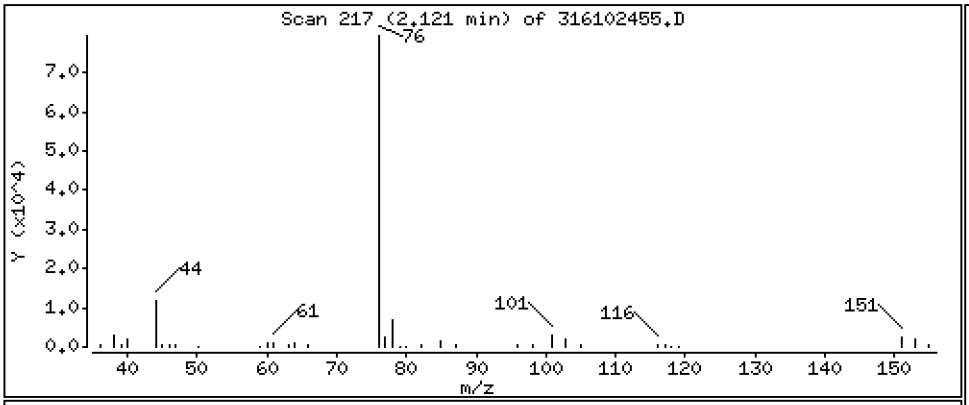
Client ID: Instrument: ms03.i

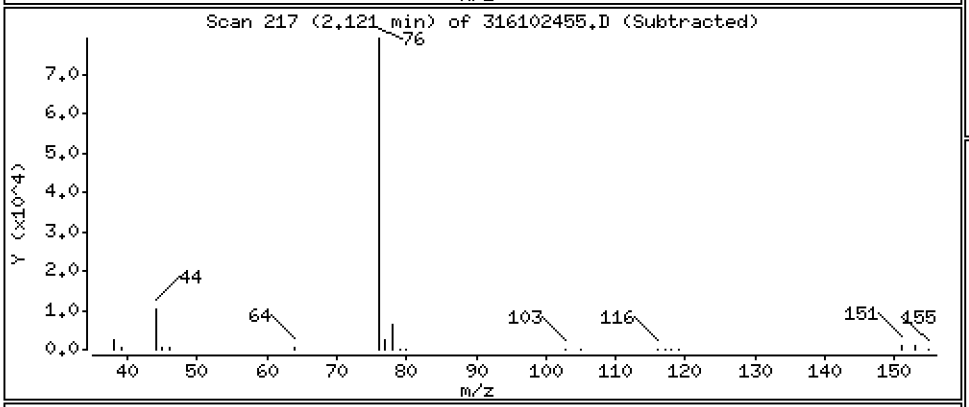
Sample Info: 1235;;1;1;2;;;

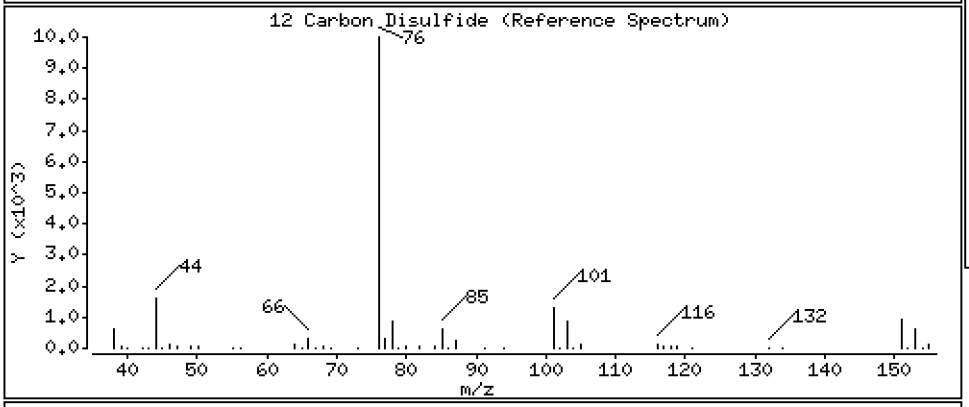
Purge Volume: 5.0 Operator: CJG

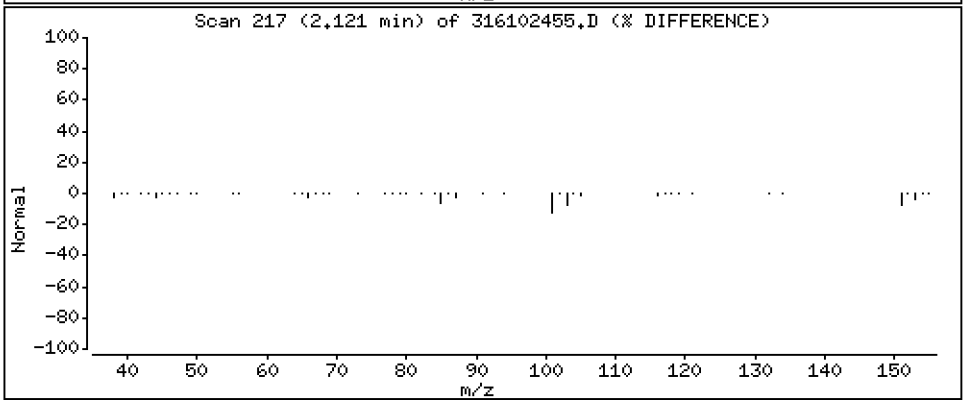
Column phase: DB-VRX Column diameter: 0.25

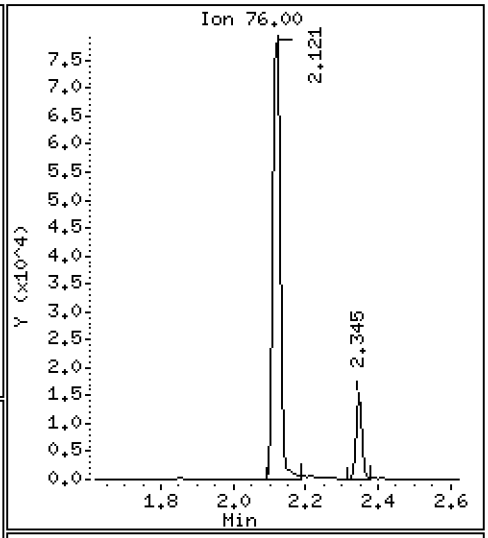
12 Carbon Disulfide Concentration: 4.73689 ug/L

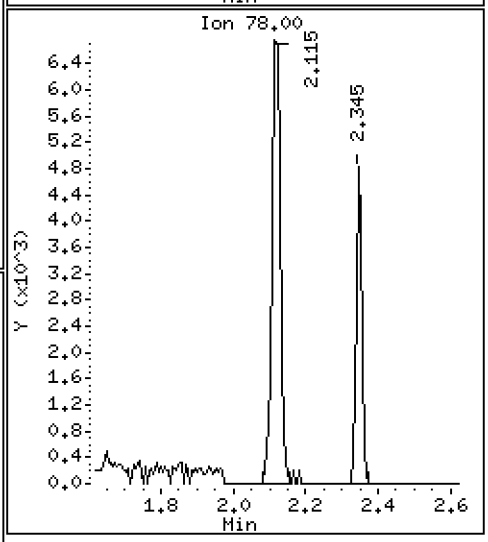












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 21

Date : 25-OCT-2016 00:08

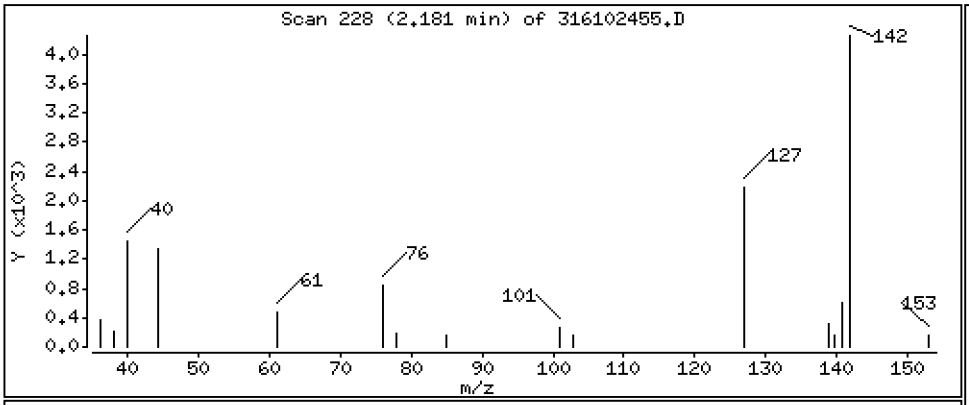
Client ID: Instrument: ms03.i

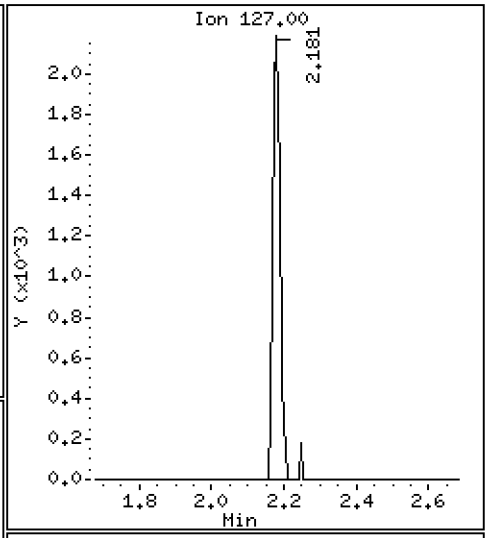
Sample Info: 1235;;1;1;2;;;

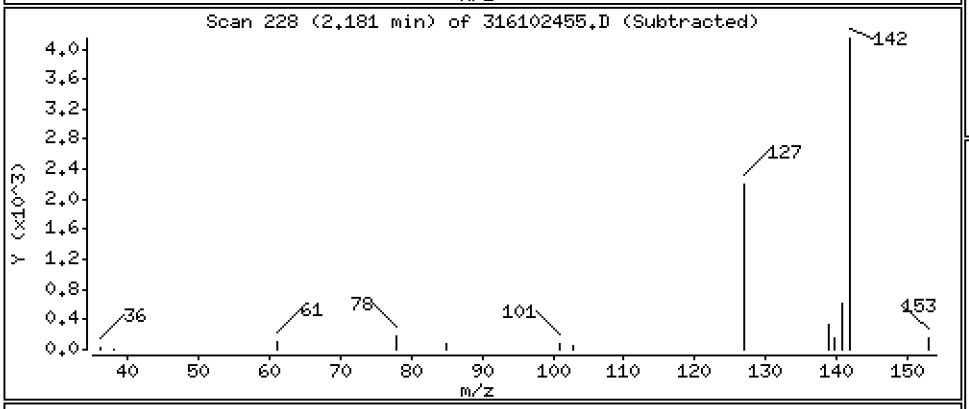
Purge Volume: 5.0 Operator: CJG

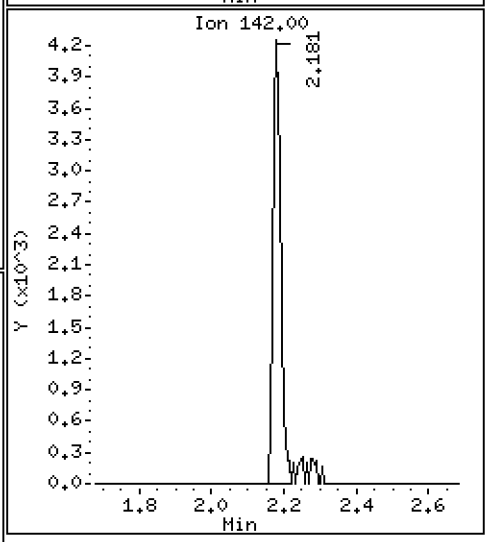
Column phase: DB-VRX Column diameter: 0.25

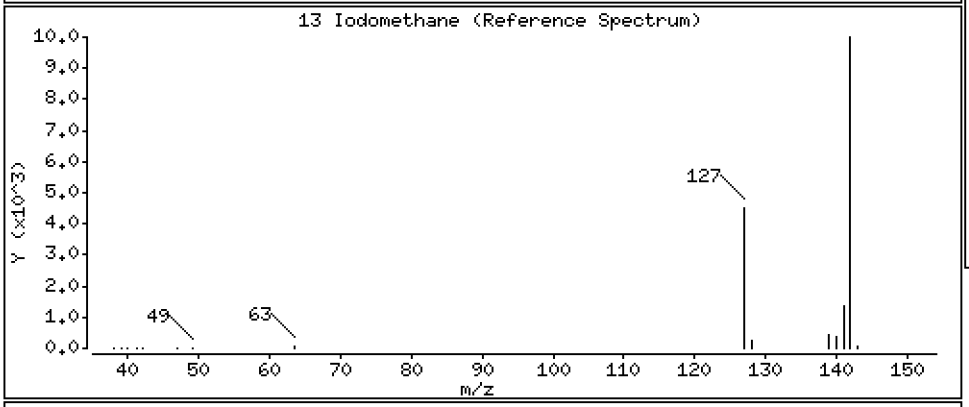
13 Iodomethane Concentration: 4.71317 ug/L

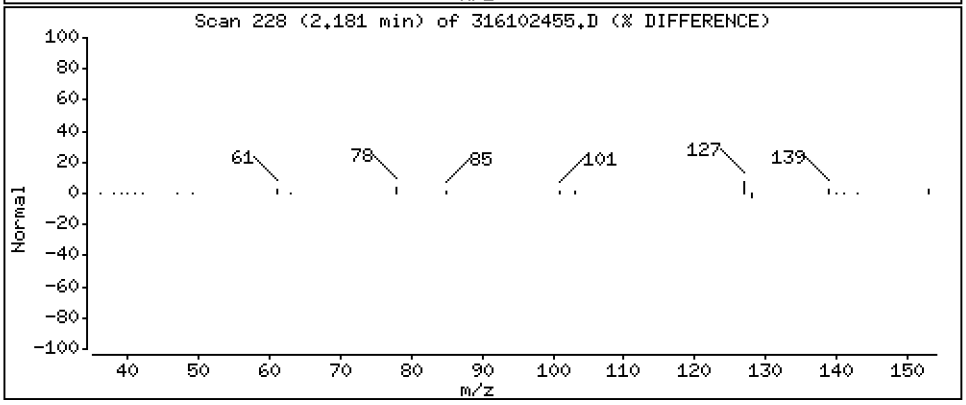












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 22

Date : 25-OCT-2016 00:08

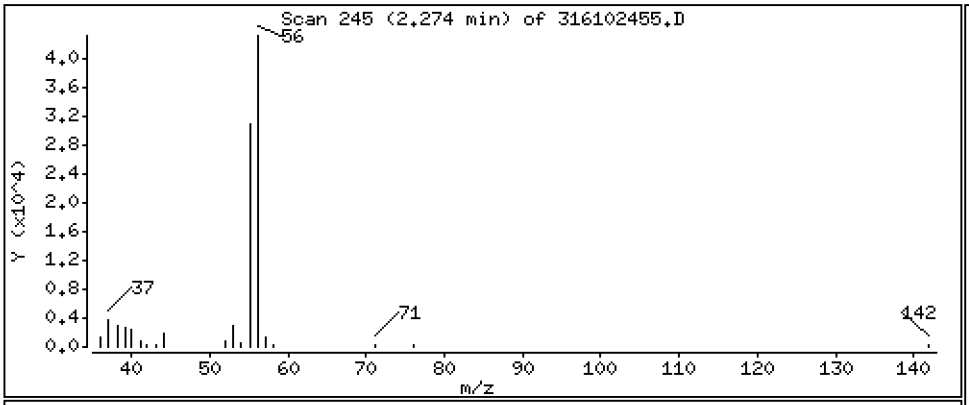
Client ID: Instrument: ms03.i

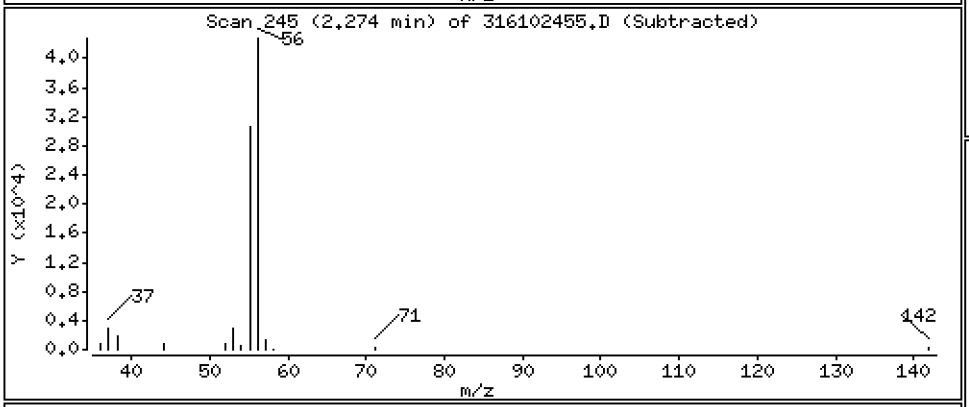
Sample Info: 1235;;1;1;2;;;

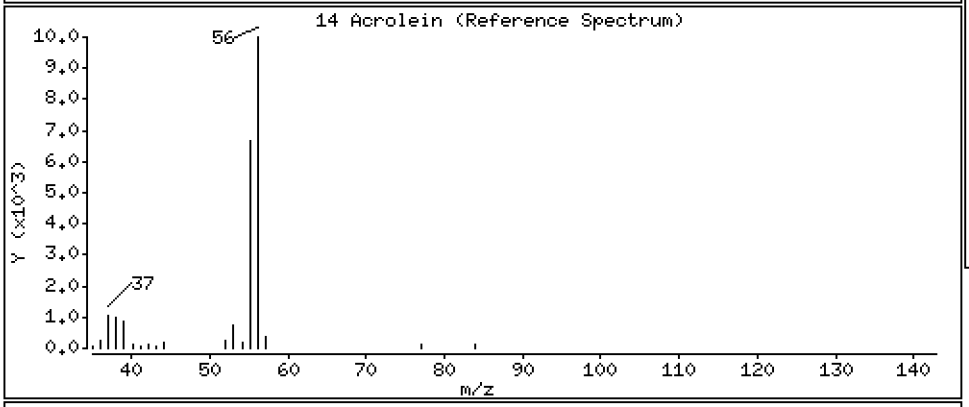
Purge Volume: 5.0 Operator: CJG

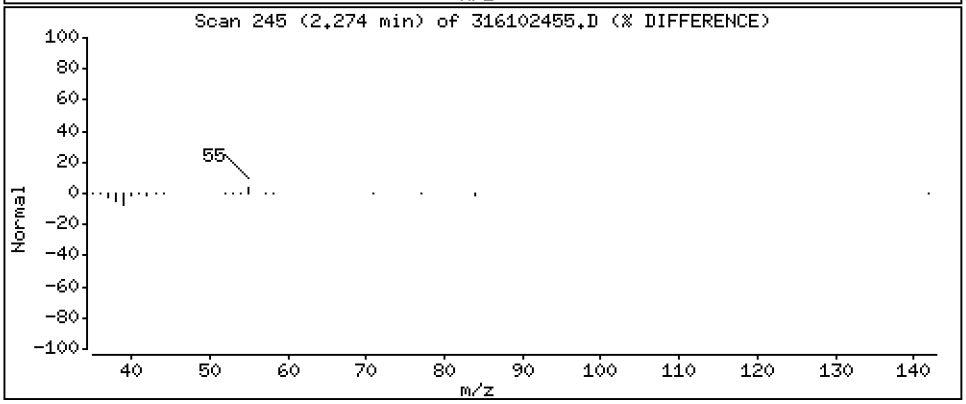
Column phase: DB-VRX Column diameter: 0.25

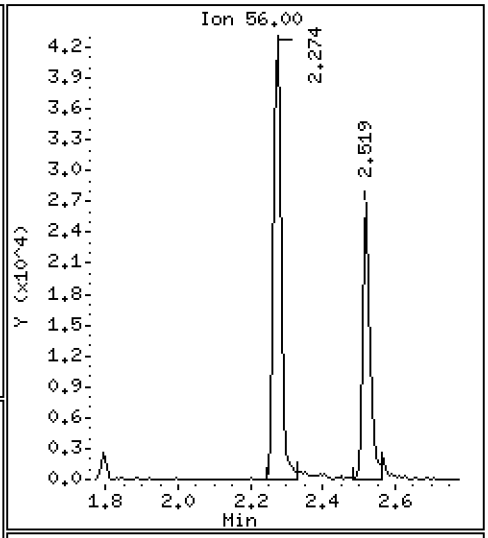
14 Acrolein Concentration: 48.4025 ug/L

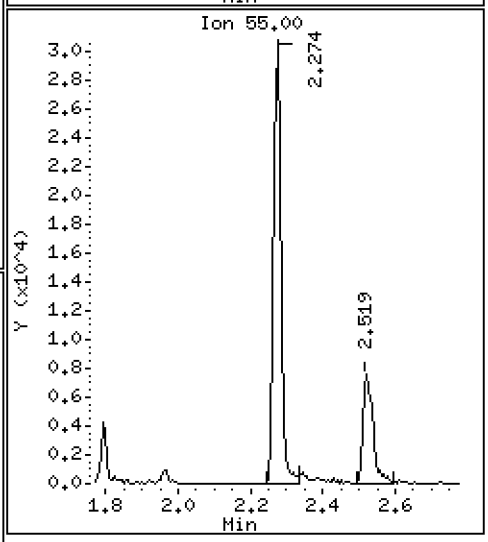












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 23

Date : 25-OCT-2016 00:08

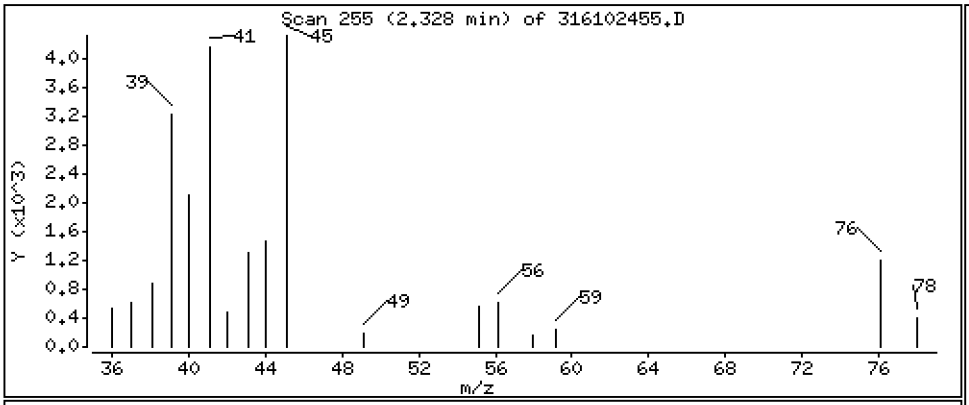
Client ID: Instrument: ms03.i

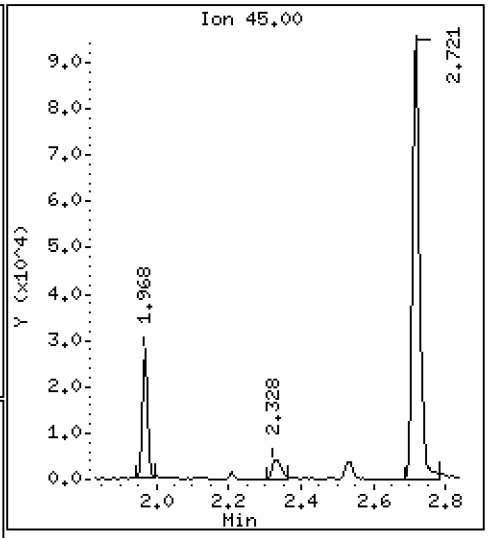
Sample Info: 1235;;1;1;2;;;

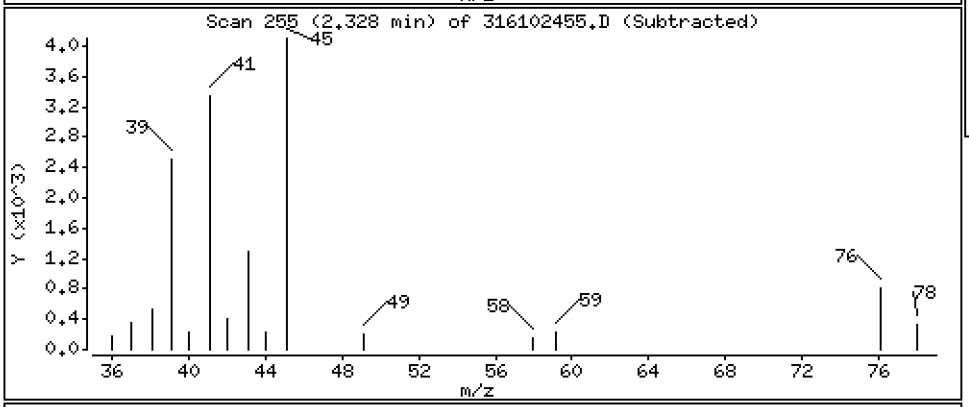
Purge Volume: 5.0 Operator: CJG

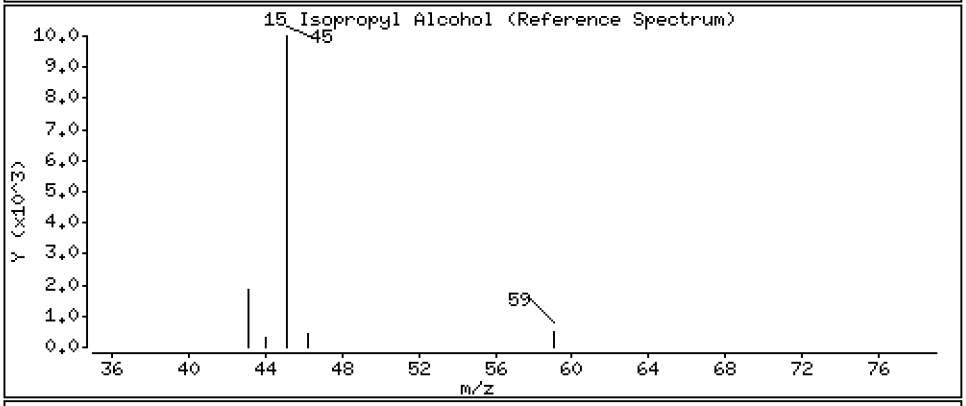
Column phase: DB-VRX Column diameter: 0.25

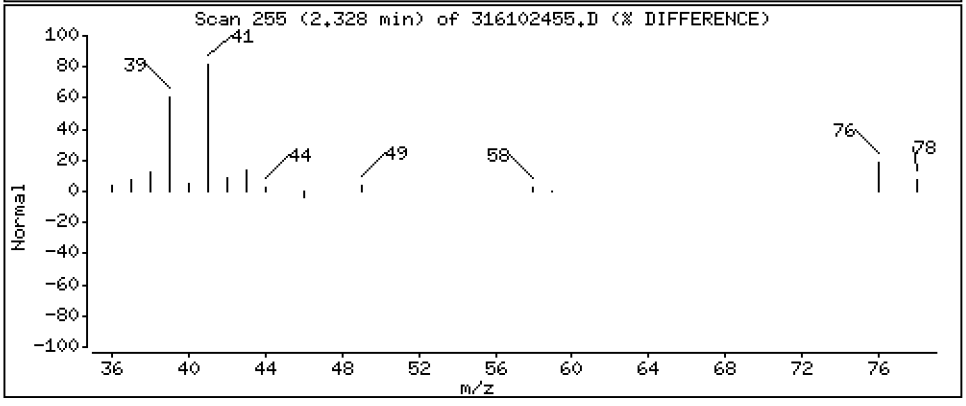
15 Isopropyl Alcohol Concentration: 25.4454 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 24

Date : 25-OCT-2016 00:08

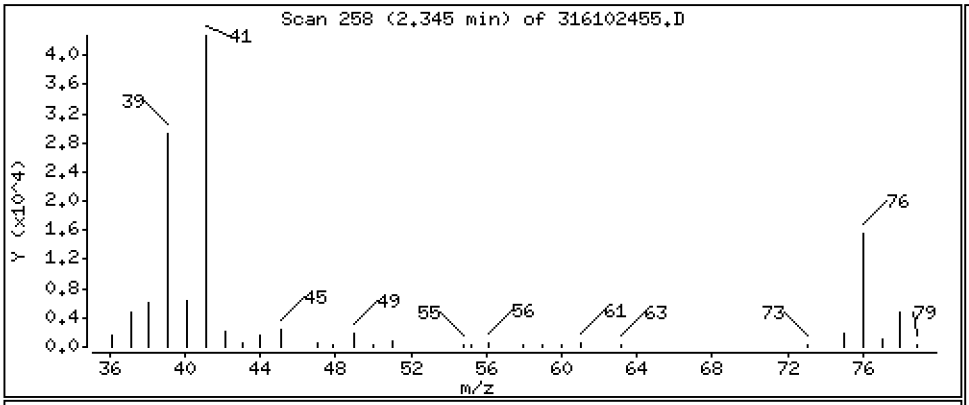
Client ID: Instrument: ms03.i

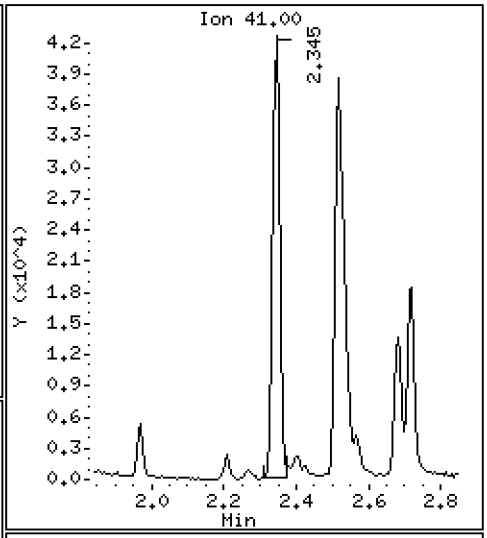
Sample Info: 1235;;1;1;2;;;

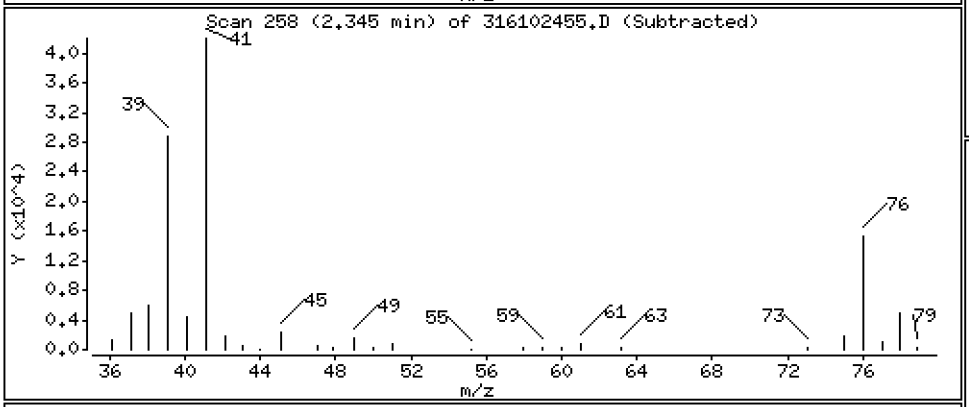
Purge Volume: 5.0 Operator: CJG

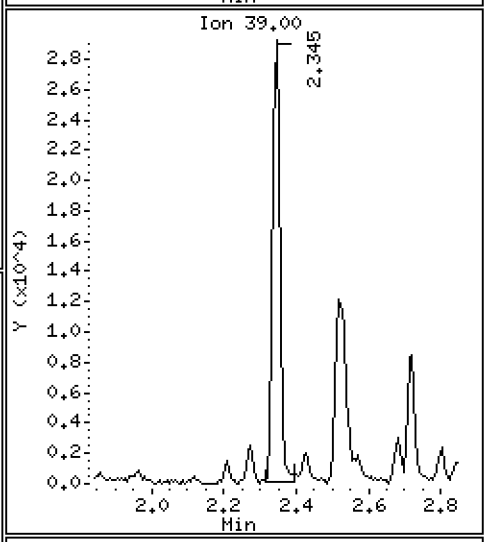
Column phase: DB-VRX Column diameter: 0.25

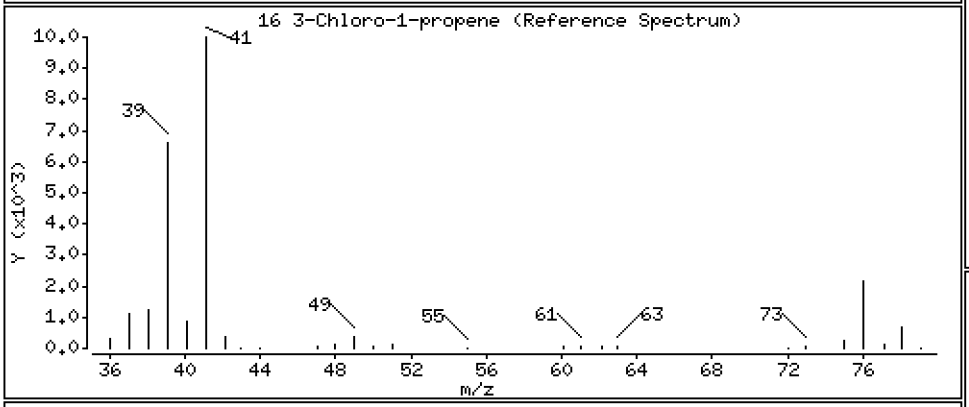
16 3-Chloro-1-propene Concentration: 4.50606 ug/L

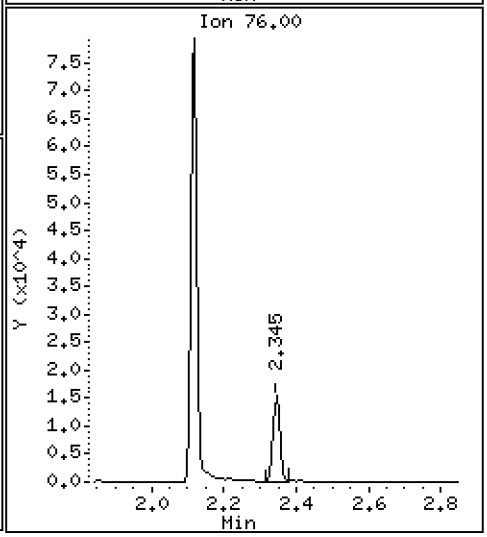


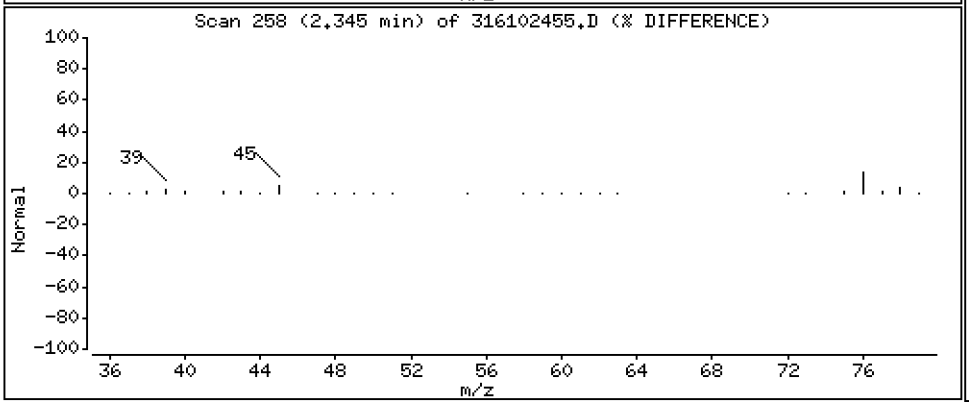












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 25

Date : 25-OCT-2016 00:08

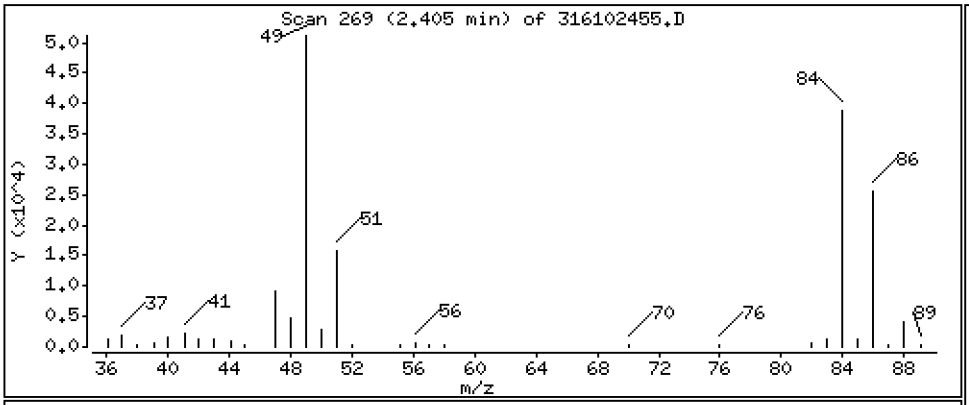
Client ID: Instrument: ms03.i

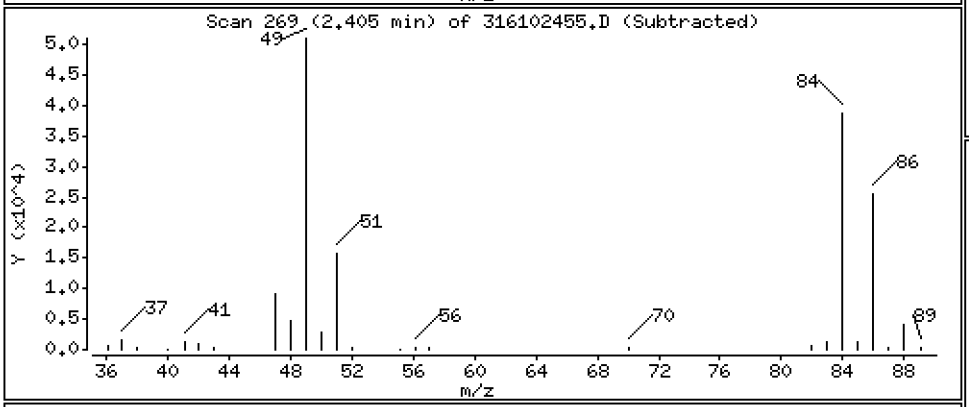
Sample Info: 1235;;1;1;2;;;

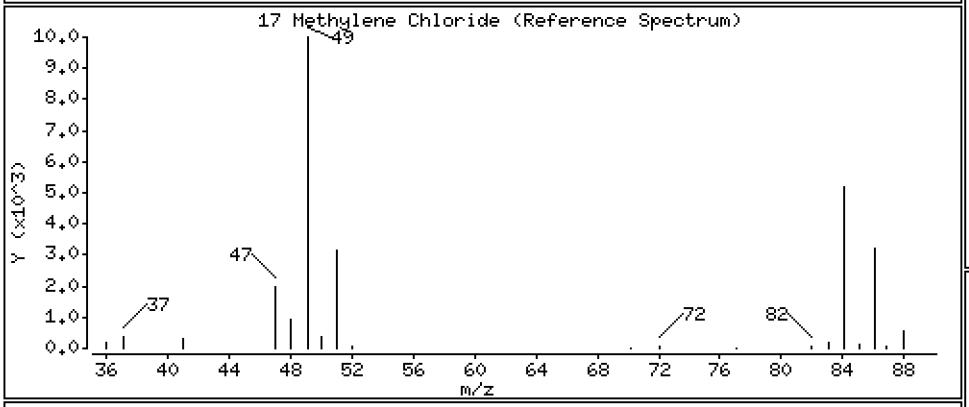
Purge Volume: 5.0 Operator: CJG

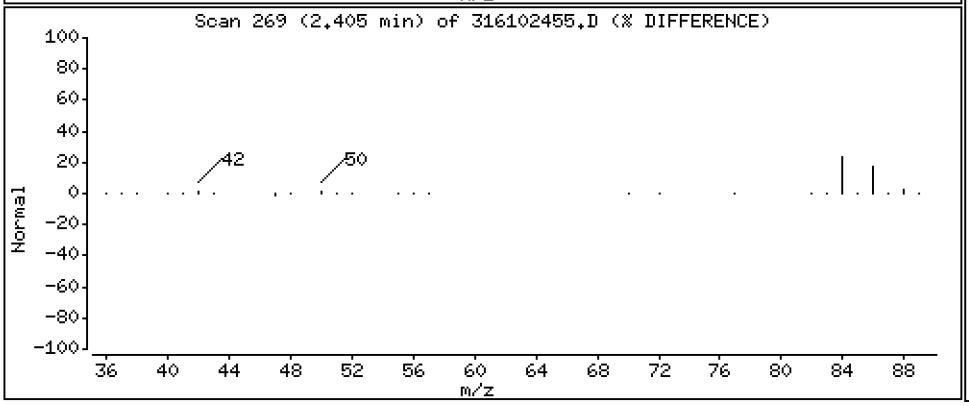
Column phase: DB-VRX Column diameter: 0.25

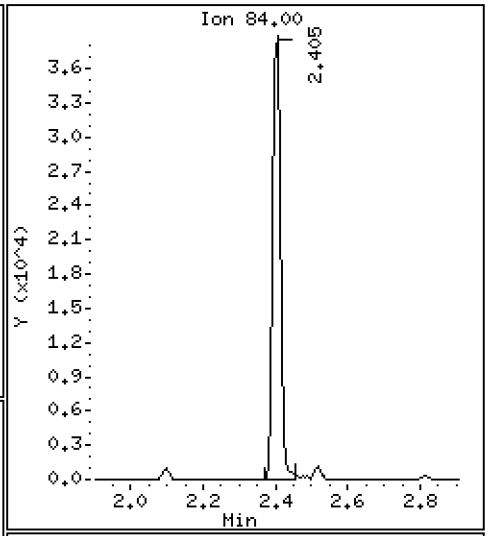
17 Methylene Chloride Concentration: 5.24071 ug/L

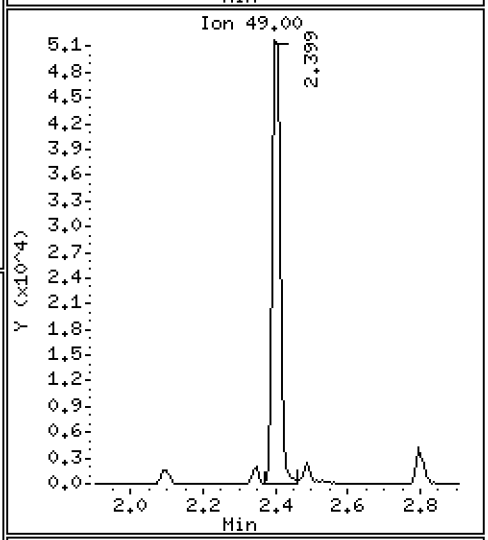


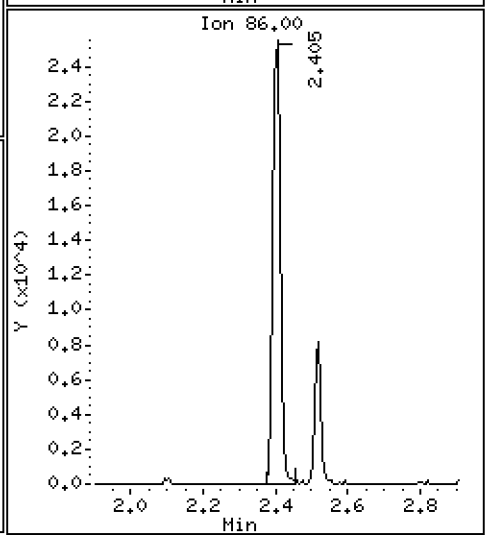












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 26

Date : 25-OCT-2016 00:08

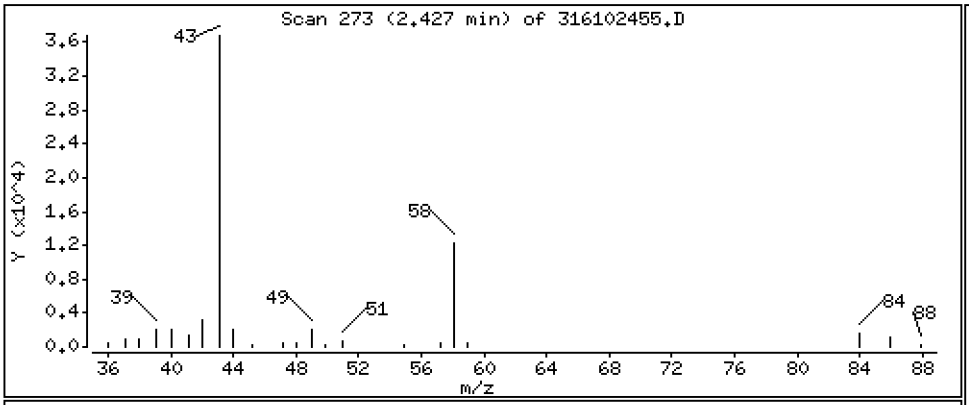
Client ID: Instrument: ms03.i

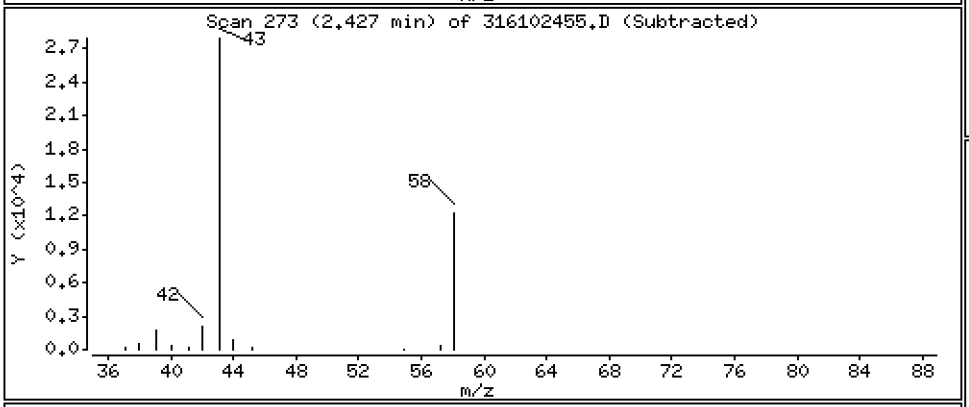
Sample Info: 1235;;1;1;2;;;

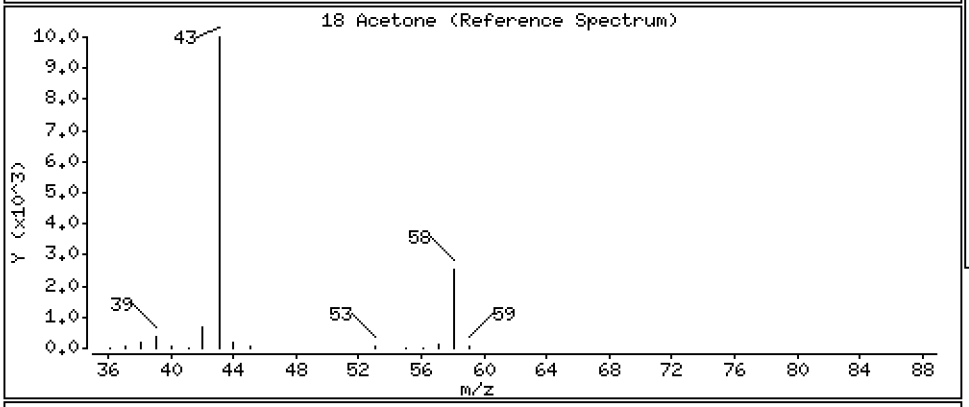
Purge Volume: 5.0 Operator: CJG

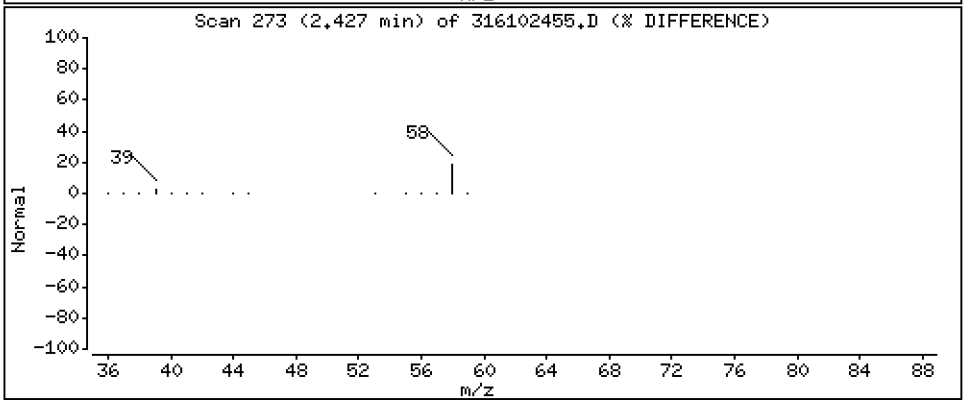
Column phase: DB-VRX Column diameter: 0.25

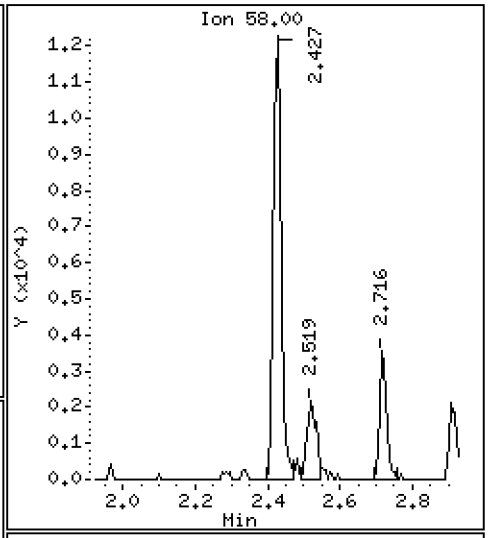
18 Acetone Concentration: 26.9980 ug/L

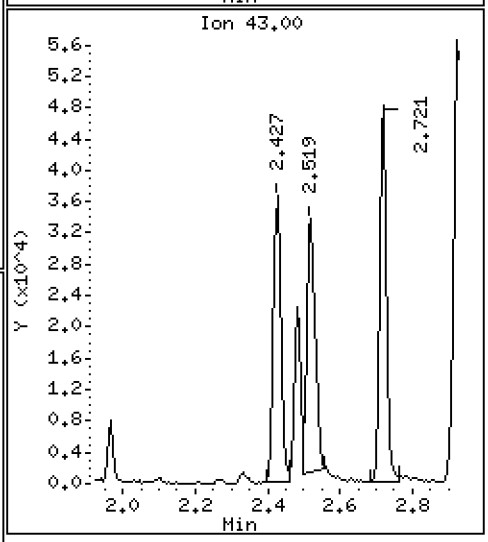












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 27

Date : 25-OCT-2016 00:08

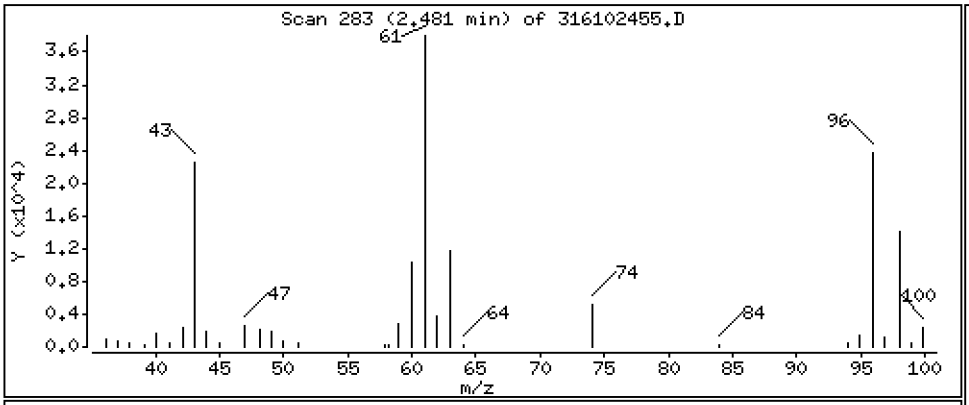
Client ID: Instrument: ms03.i

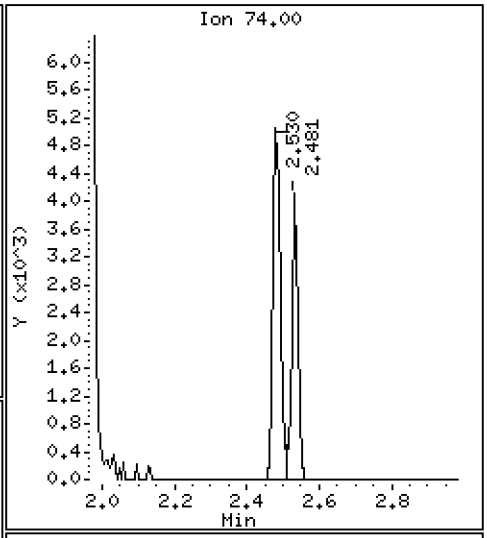
Sample Info: 1235;;1;1;2;;;

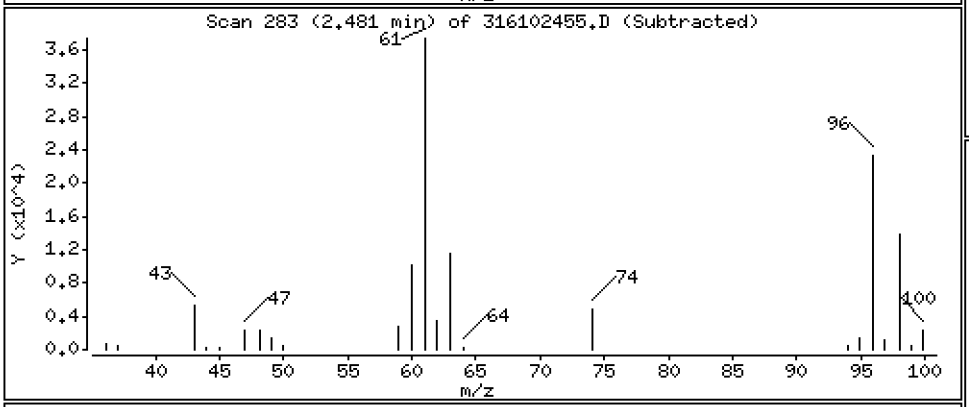
Purge Volume: 5.0 Operator: CJG

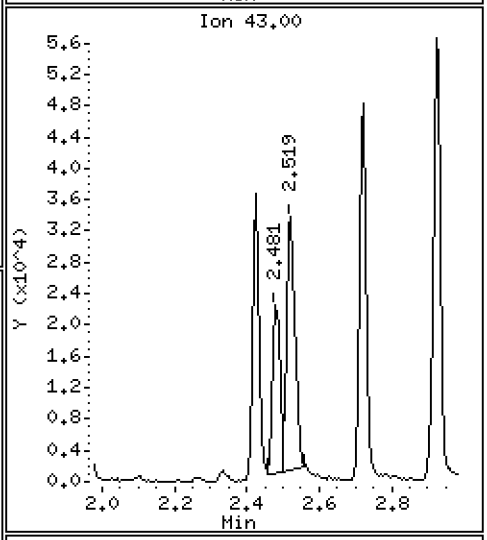
Column phase: DB-VRX Column diameter: 0.25

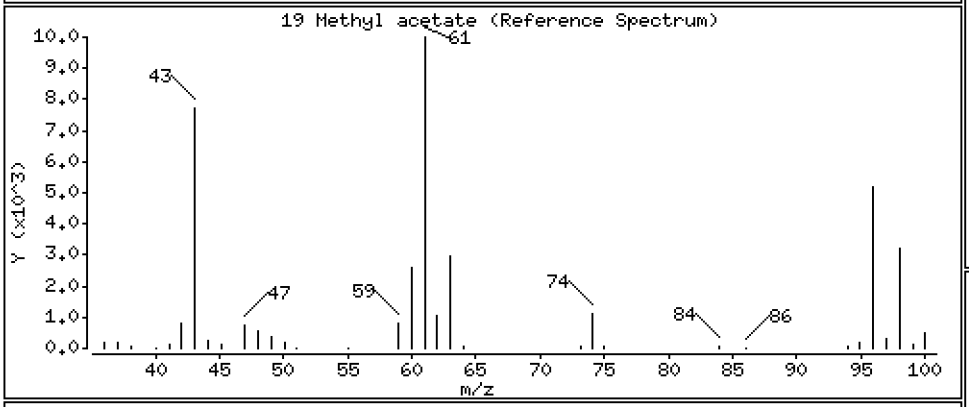
19 Methyl acetate Concentration: 5.11895 ug/L

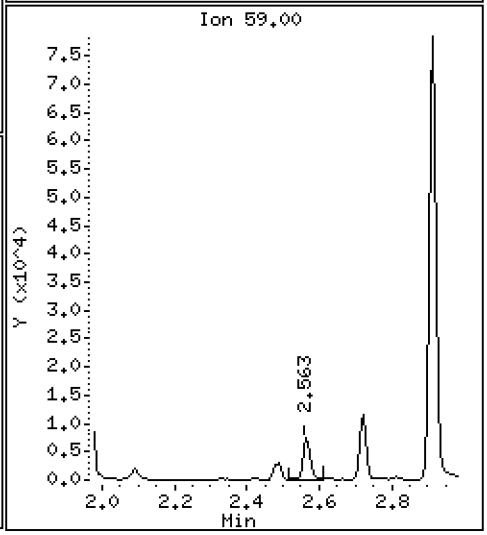


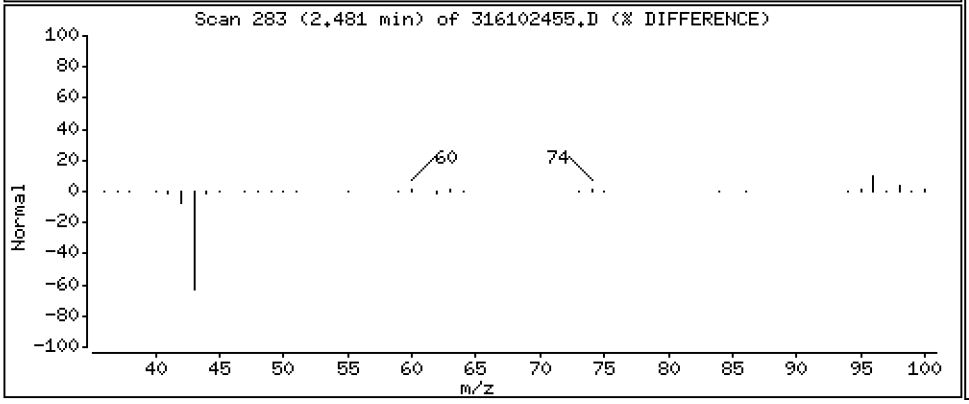












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 28

Date : 25-OCT-2016 00:08

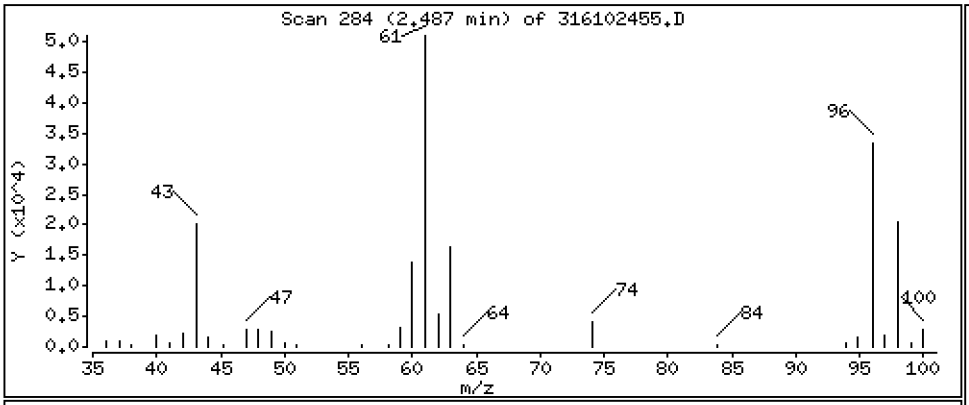
Client ID: Instrument: ms03.i

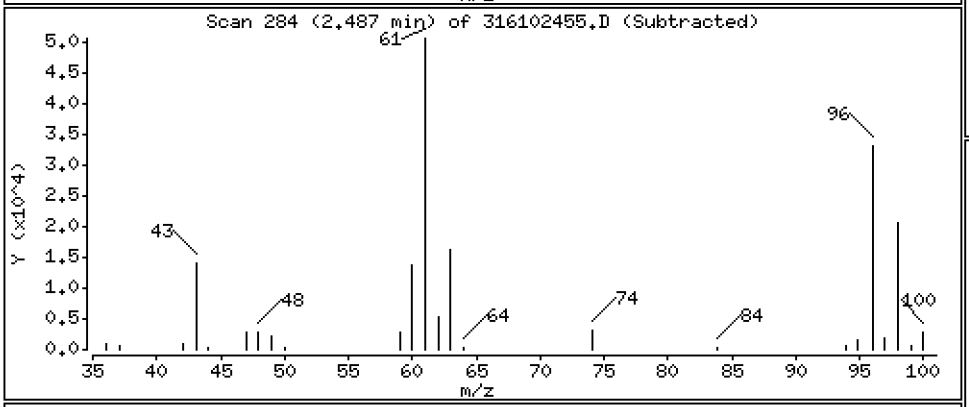
Sample Info: 1235;;1;1;2;;;

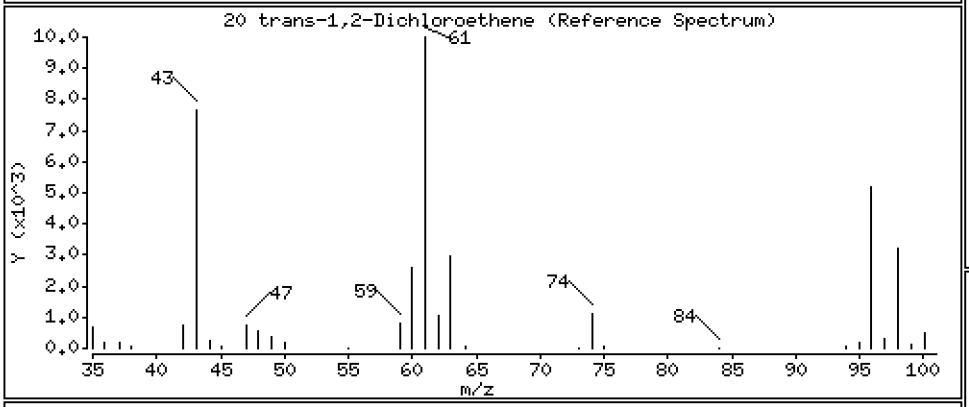
Purge Volume: 5.0 Operator: CJG

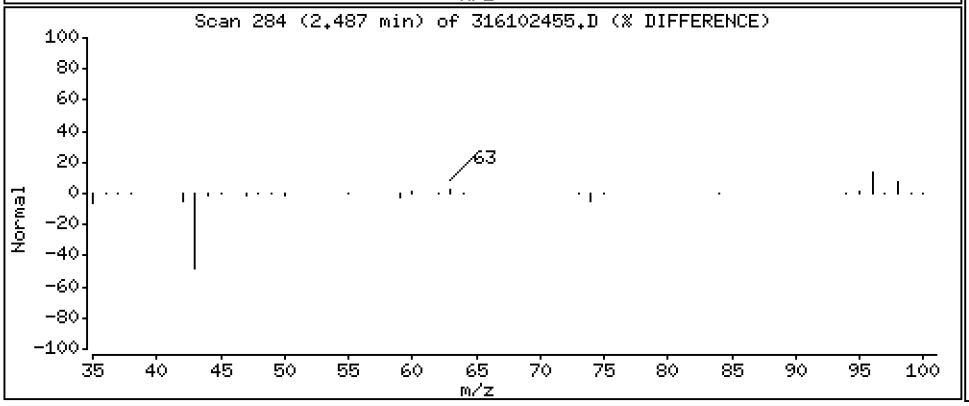
Column phase: DB-VRX Column diameter: 0.25

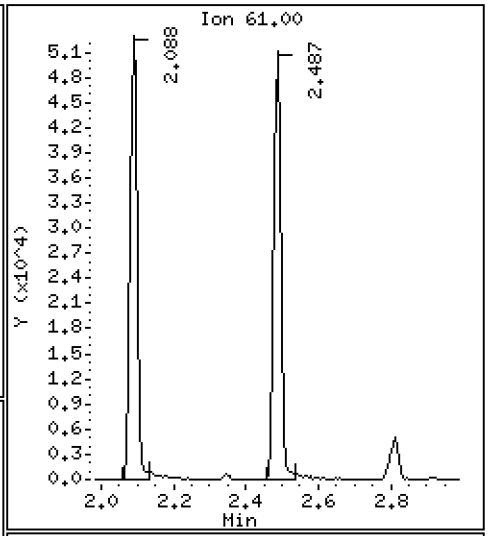
20 trans-1,2-Dichloroethene Concentration: 5.39652 ug/L

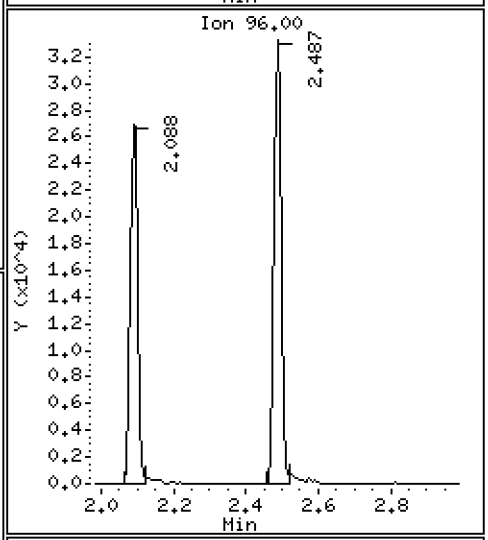


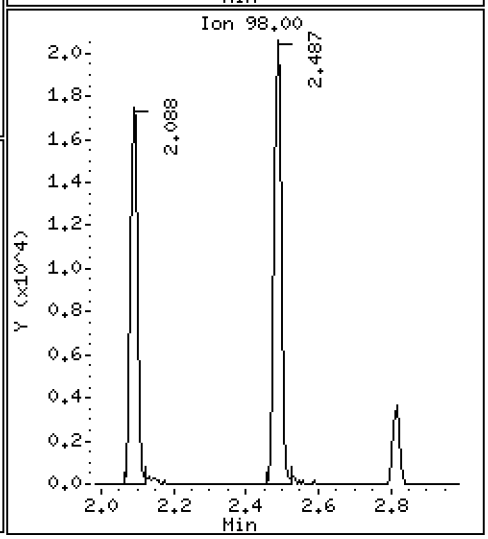












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 29

Date : 25-OCT-2016 00:08

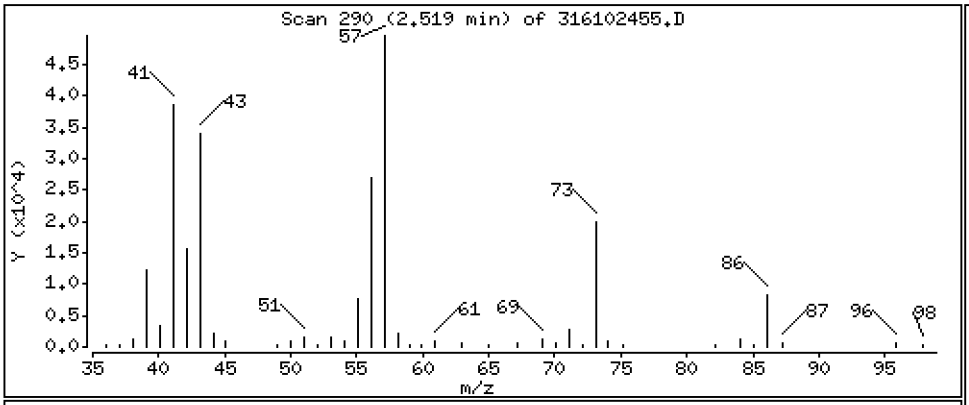
Client ID: Instrument: ms03.i

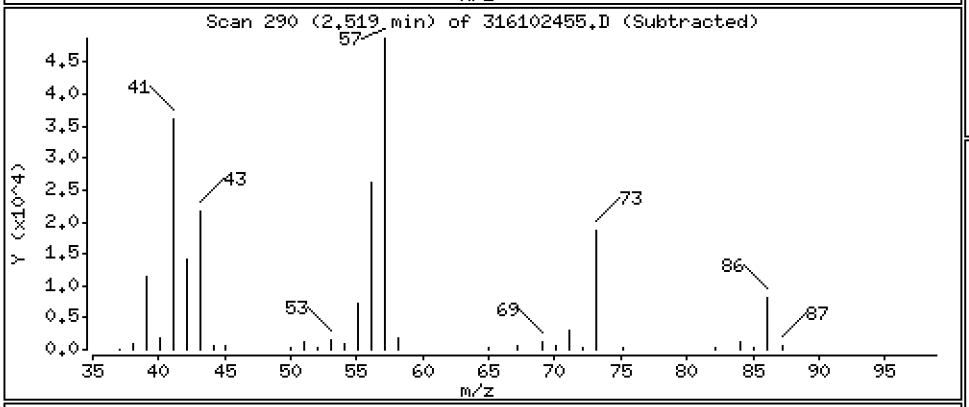
Sample Info: 1235;;1;1;2;;;

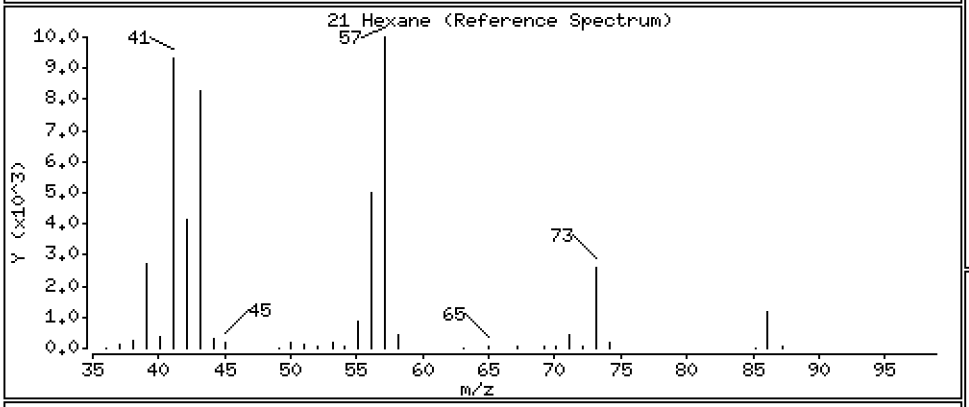
Purge Volume: 5.0 Operator: CJG

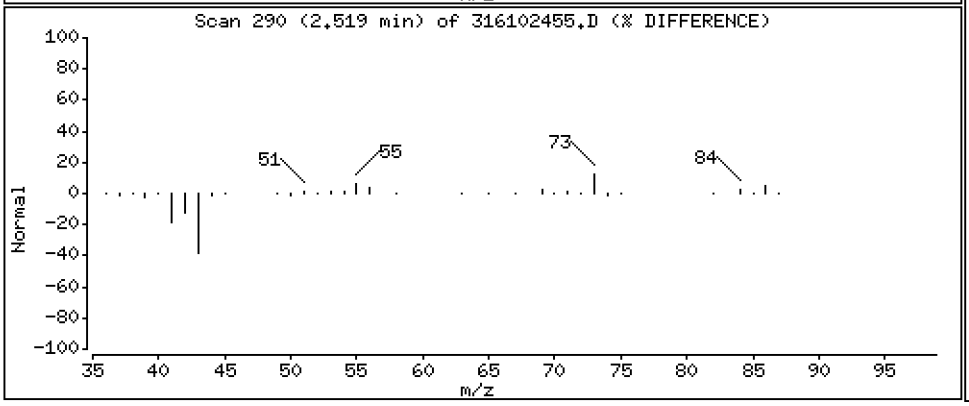
Column phase: DB-VRX Column diameter: 0.25

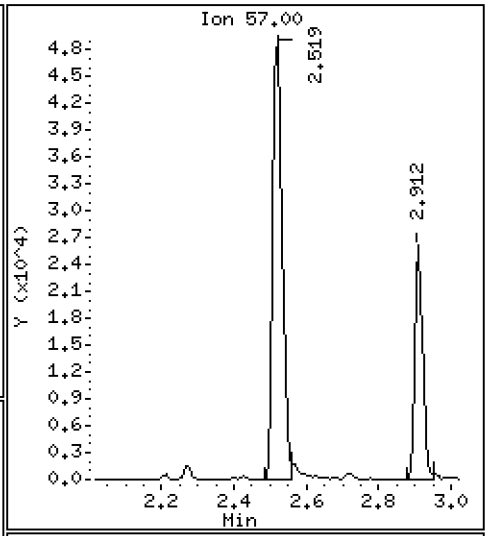
21 Hexane Concentration: 5.00084 ug/L

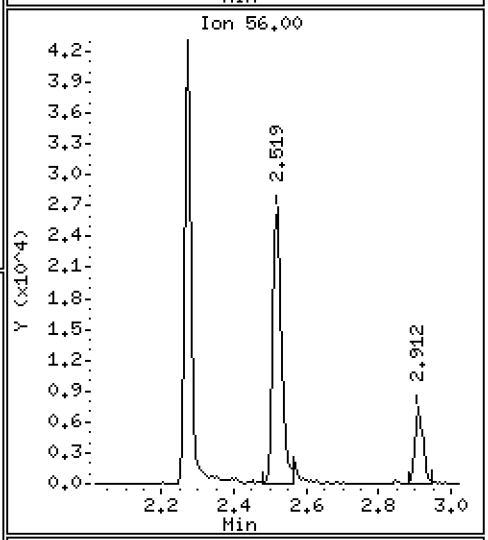


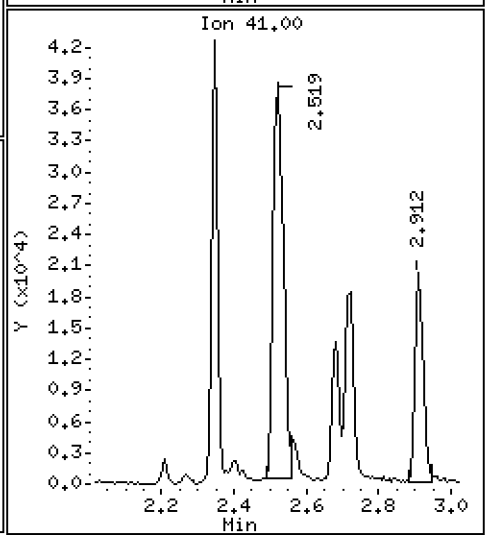












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 30

Date : 25-OCT-2016 00:08

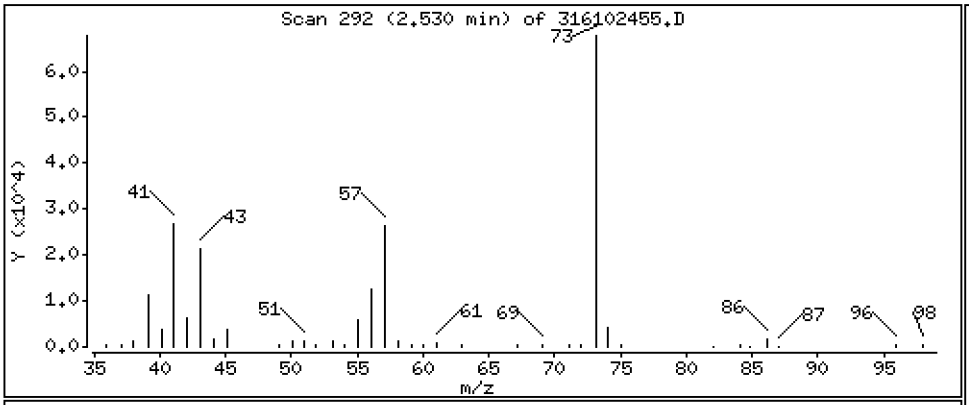
Client ID: Instrument: ms03.i

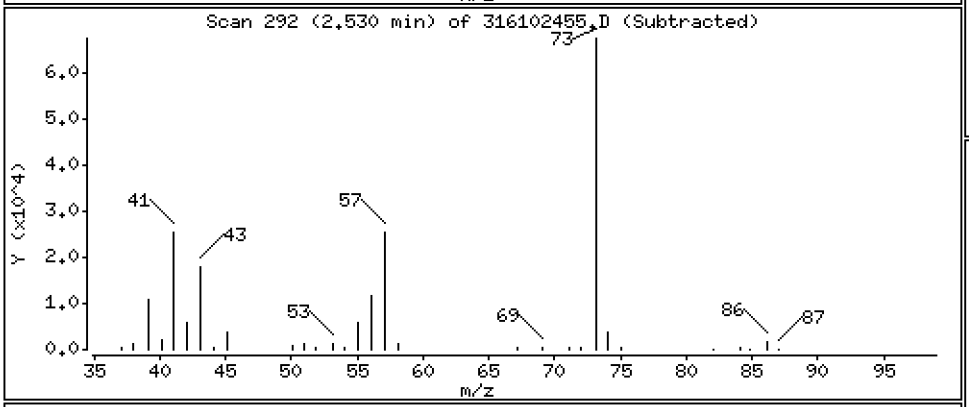
Sample Info: 1235;;1;1;2;;;

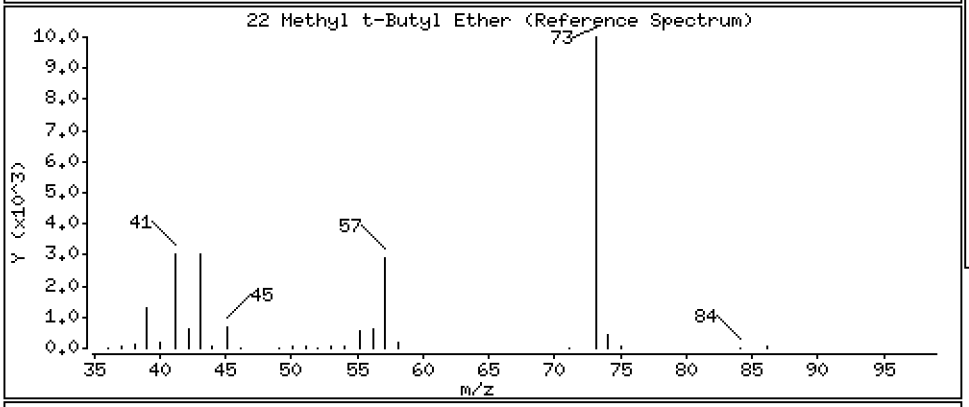
Purge Volume: 5.0 Operator: CJG

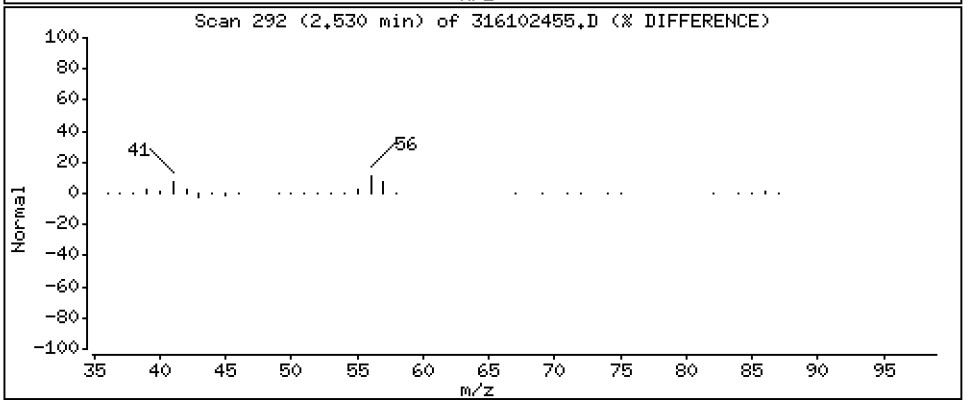
Column phase: DB-VRX Column diameter: 0.25

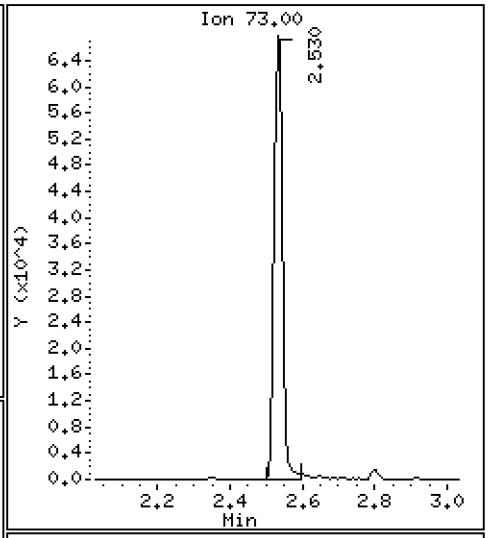
22 Methyl t-Butyl Ether Concentration: 4.76458 ug/L

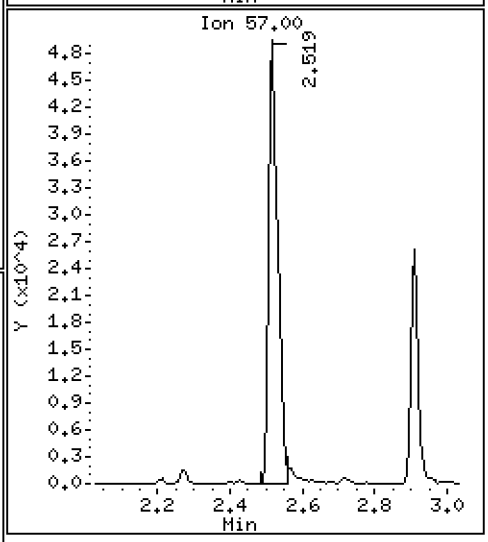












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 31

Date : 25-OCT-2016 00:08

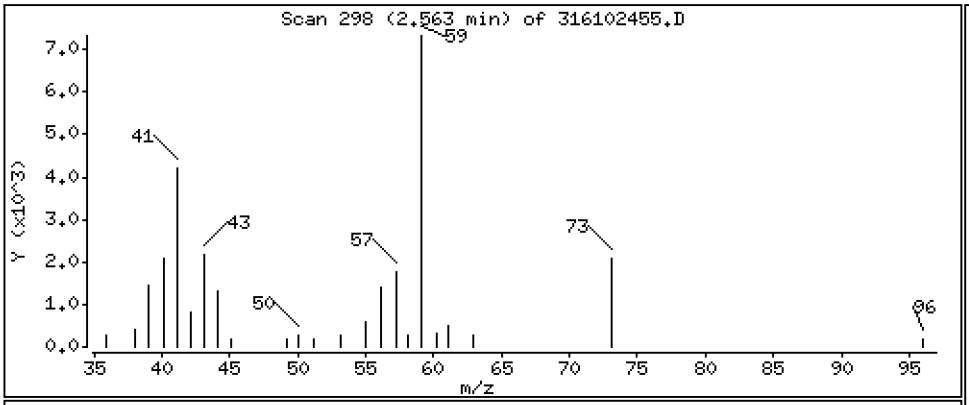
Client ID: Instrument: ms03.i

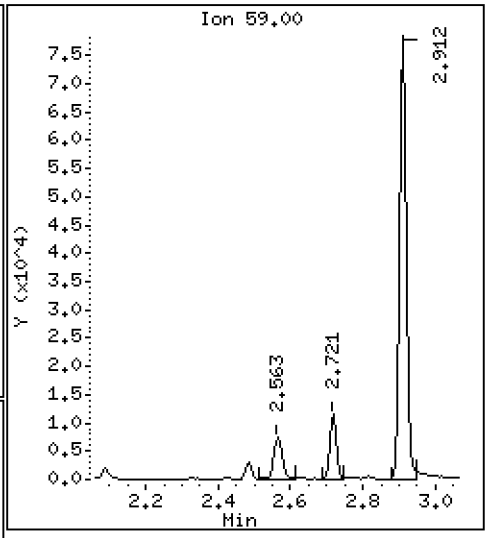
Sample Info: 1235;;1;1;2;;;

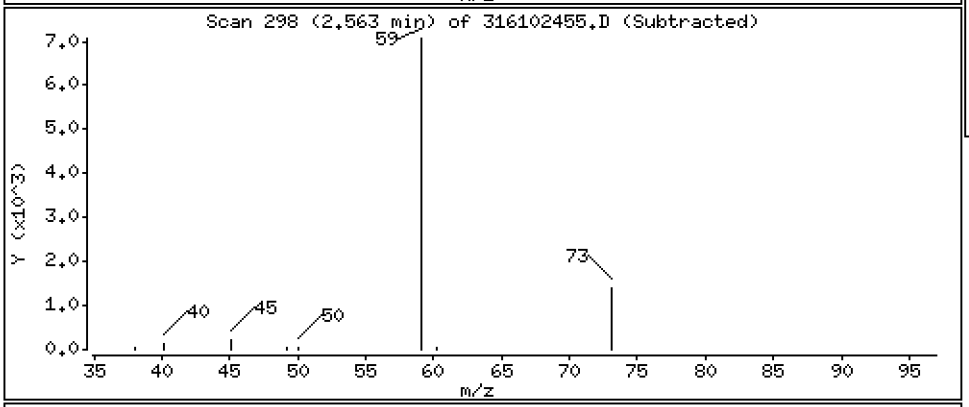
Purge Volume: 5.0 Operator: CJG

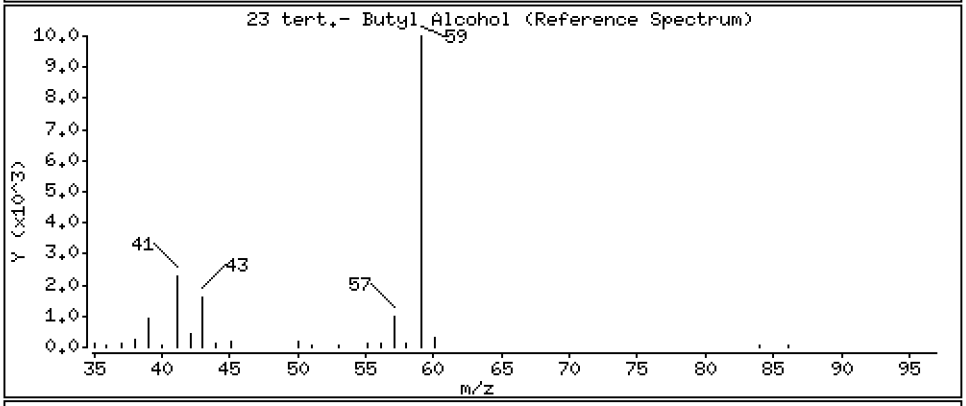
Column phase: DB-VRX Column diameter: 0.25

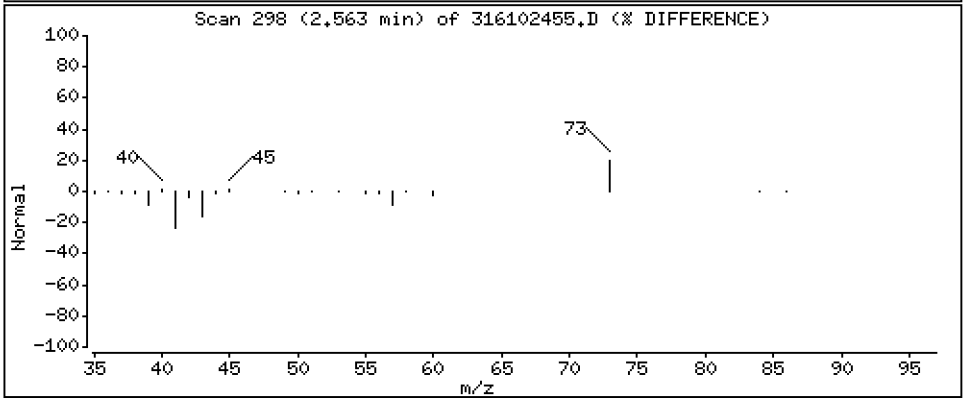
23 tert.- Butyl Alcohol Concentration: 26.3835 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 32

Date : 25-OCT-2016 00:08

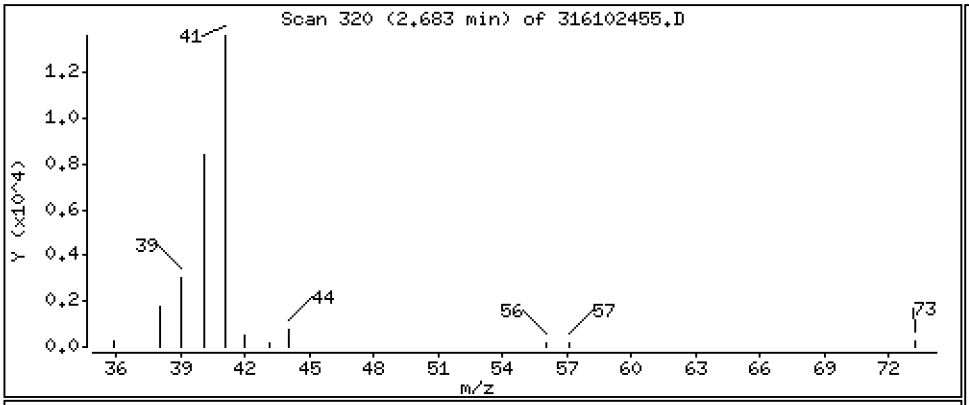
Client ID: Instrument: ms03.i

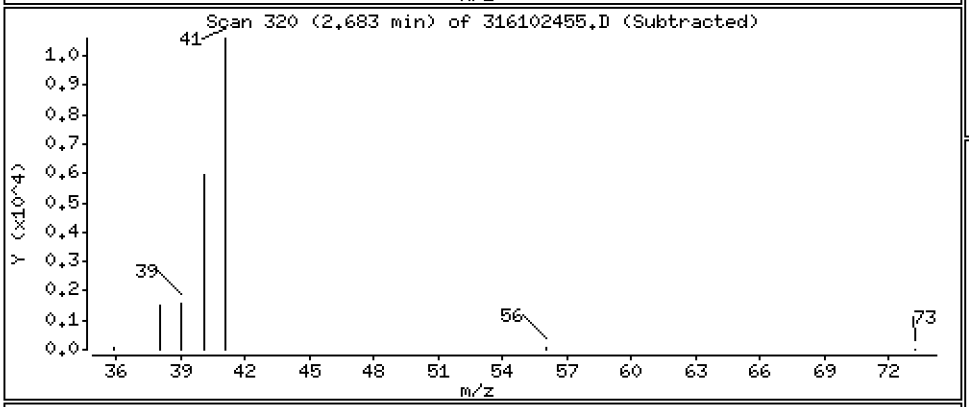
Sample Info: 1235;;1;1;2;;;

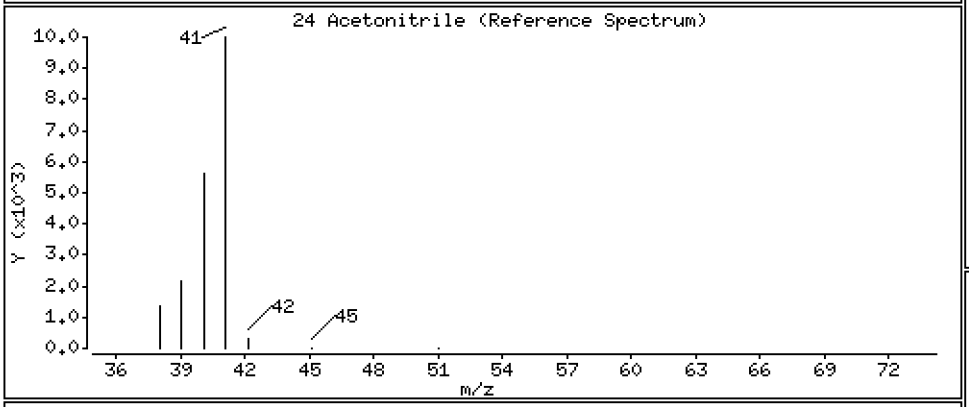
Purge Volume: 5.0 Operator: CJG

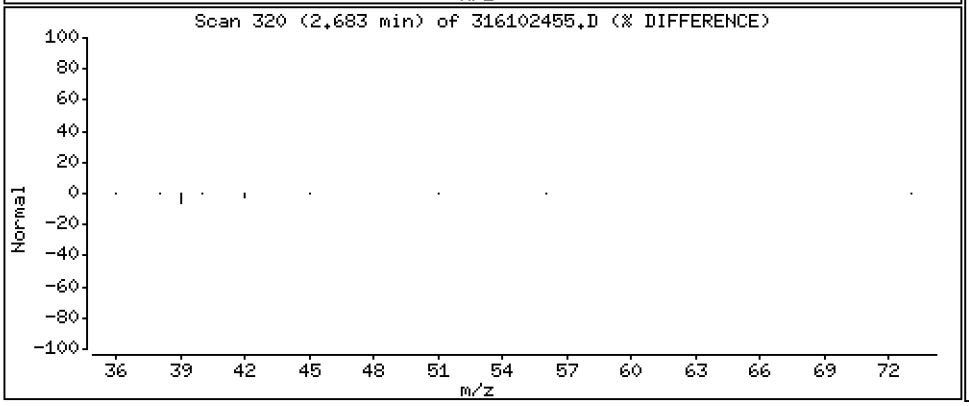
Column phase: DB-VRX Column diameter: 0.25

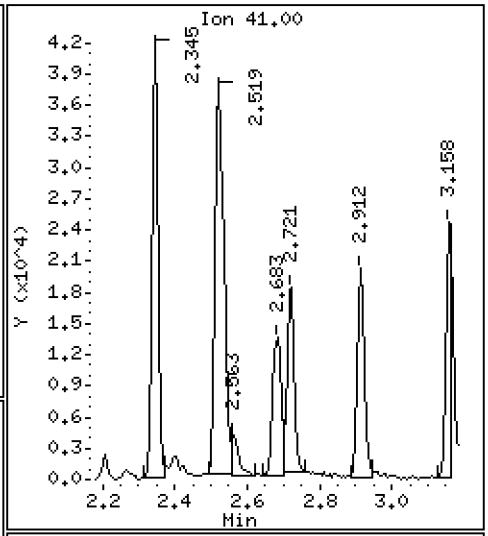
24 Acetonitrile Concentration: 26.5647 ug/L

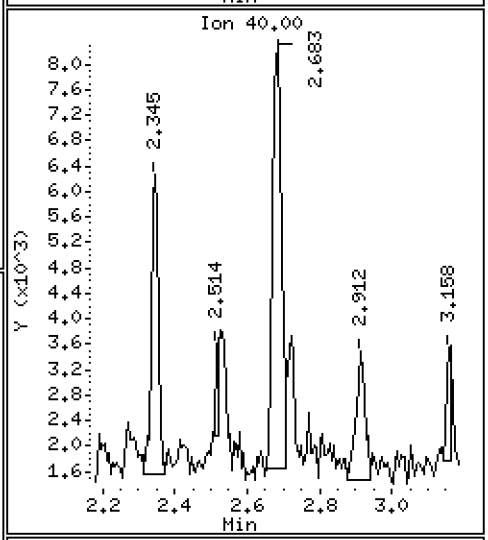


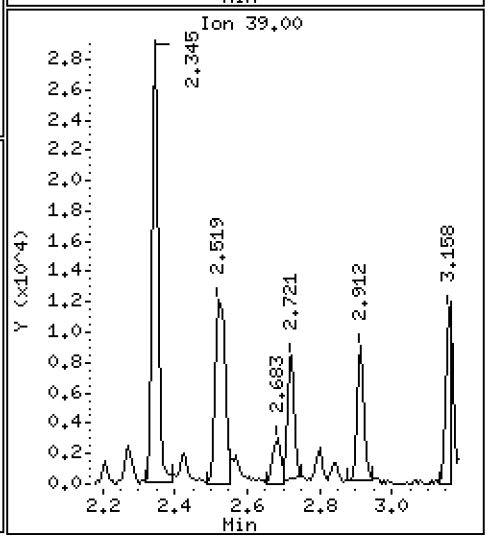












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 33

Date : 25-OCT-2016 00:08

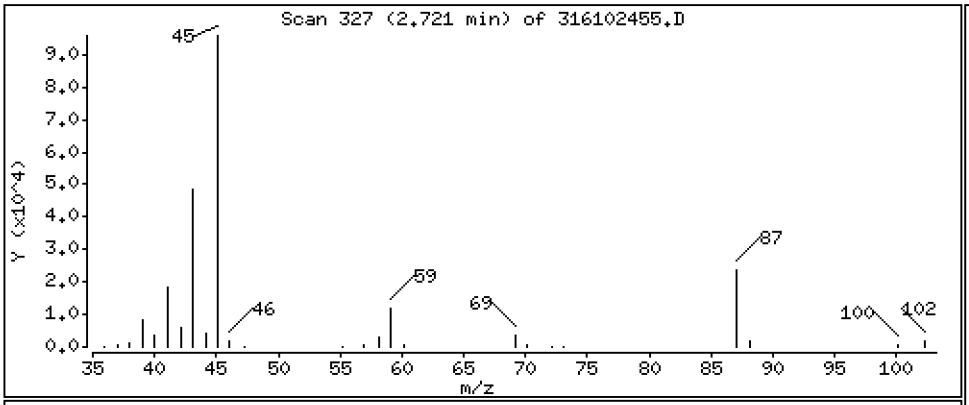
Client ID: Instrument: ms03.i

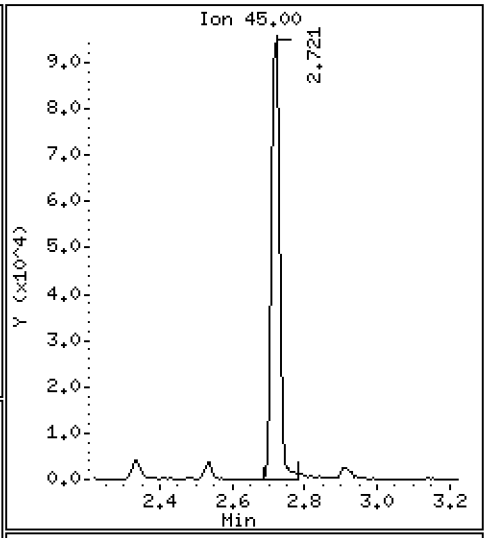
Sample Info: 1235;;1;1;2;;;

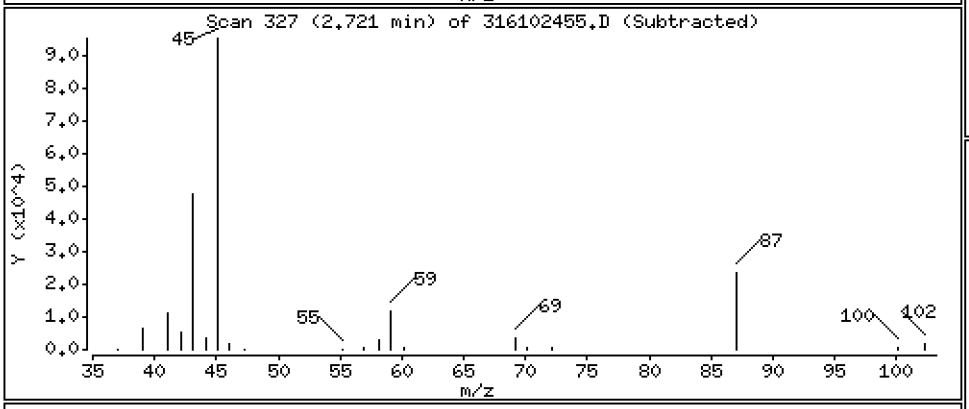
Purge Volume: 5.0 Operator: CJG

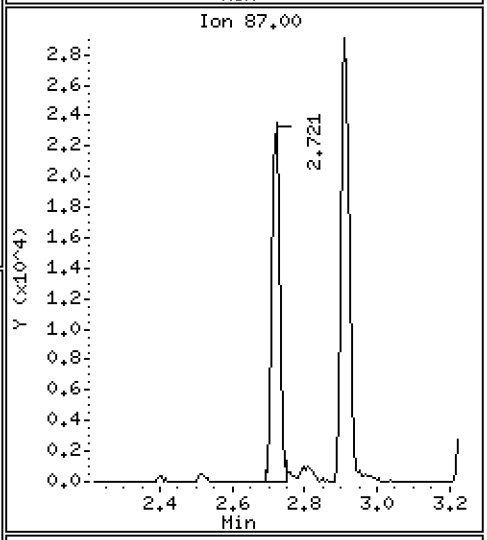
Column phase: DB-VRX Column diameter: 0.25

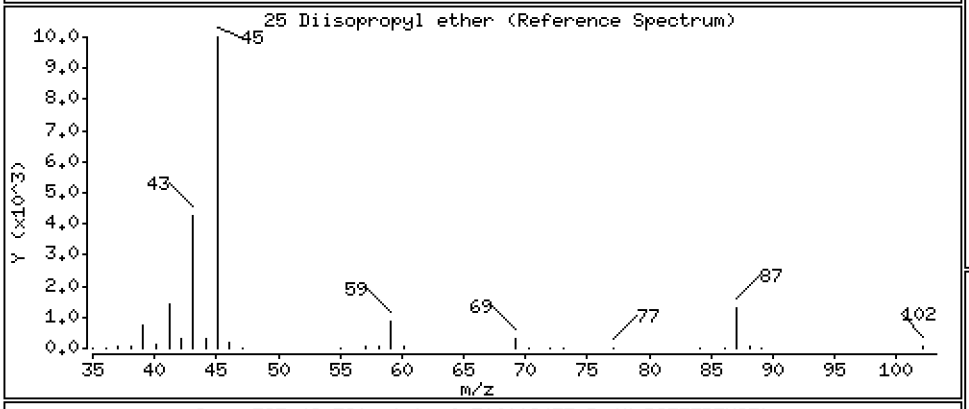
25 Diisopropyl ether Concentration: 4.64902 ug/L

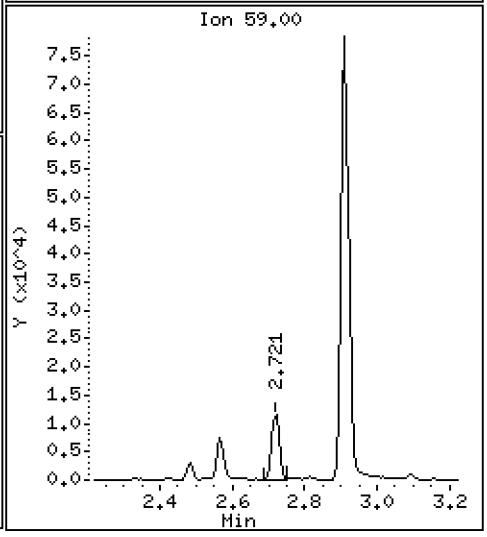


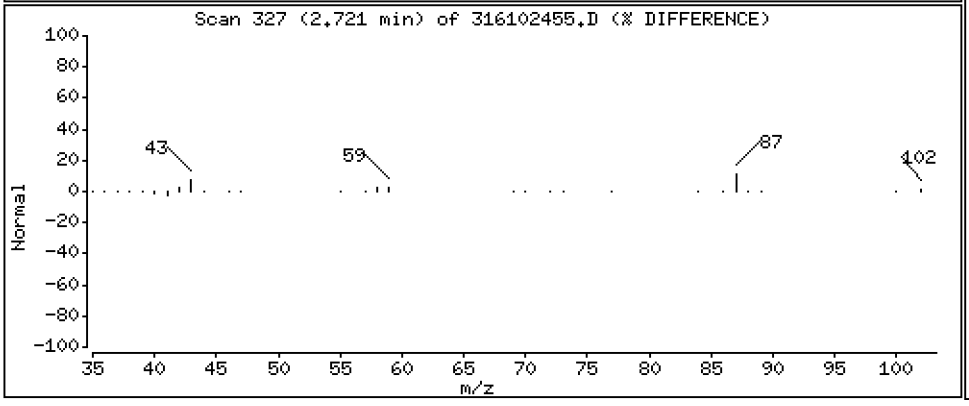












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 34

Date : 25-OCT-2016 00:08

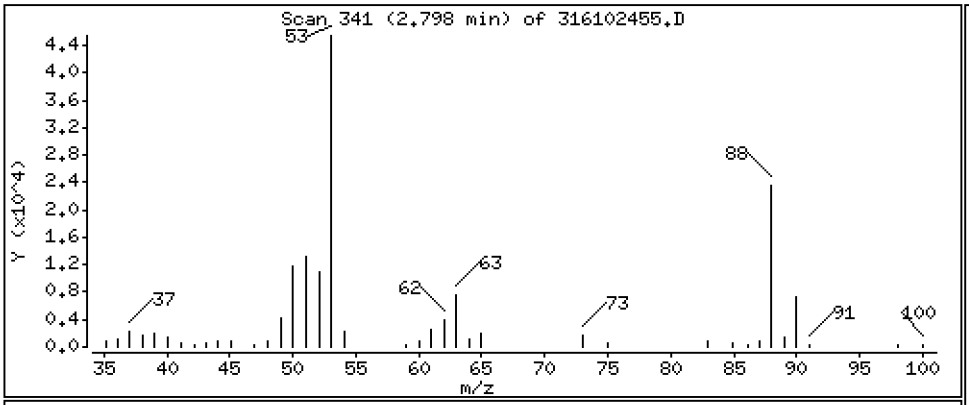
Client ID: Instrument: ms03.i

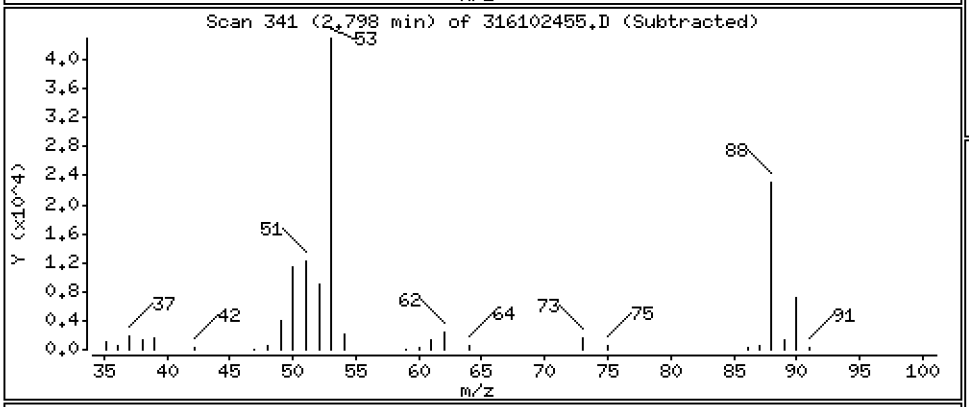
Sample Info: 1235;;1;1;2;;;

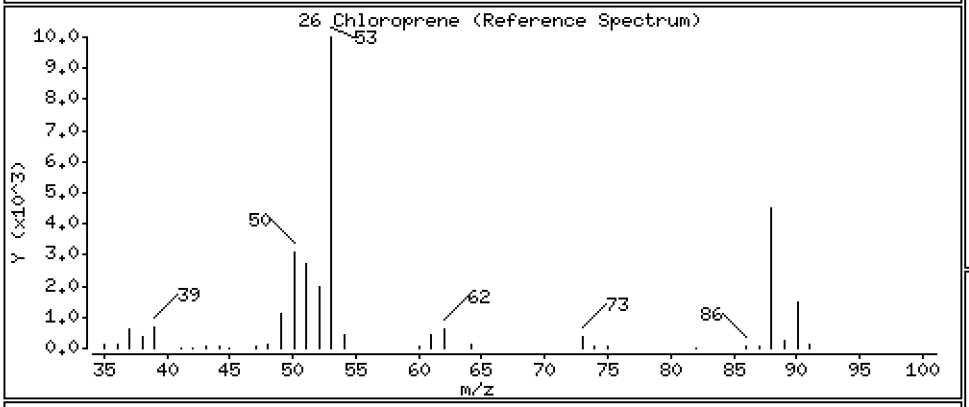
Purge Volume: 5.0 Operator: CJG

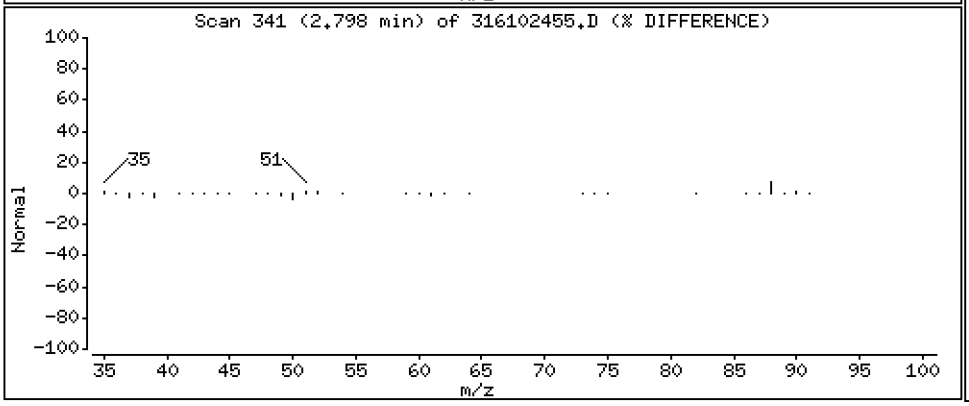
Column phase: DB-VRX Column diameter: 0.25

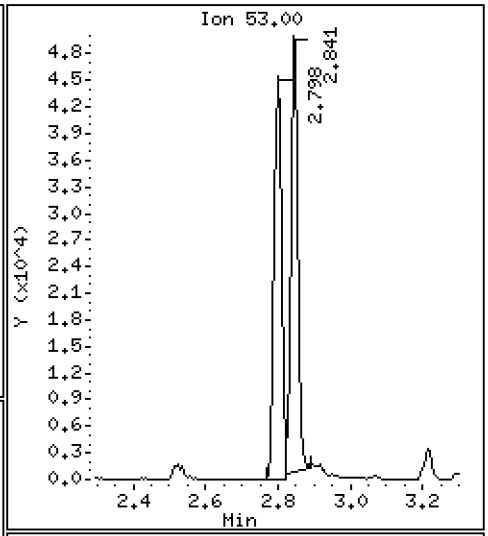
26 Chloroprene Concentration: 5.06181 ug/L

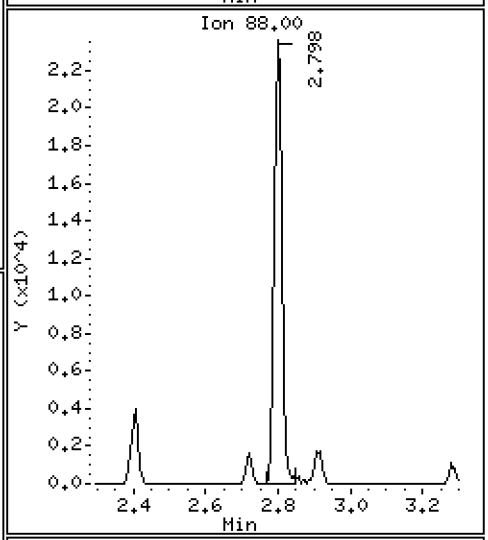


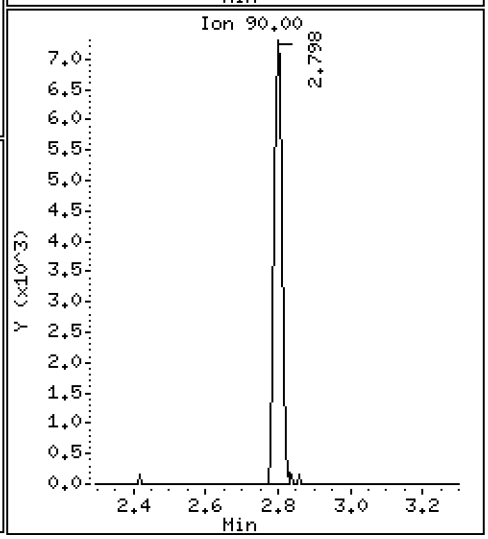












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 35

Date : 25-OCT-2016 00:08

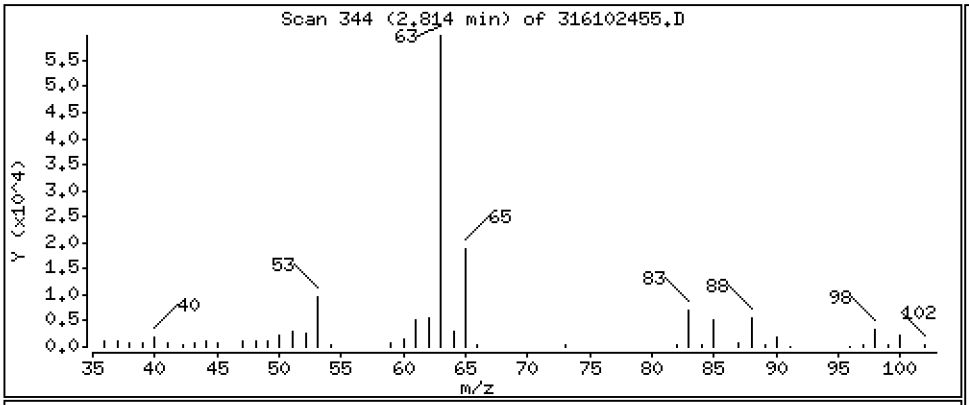
Client ID: Instrument: ms03.i

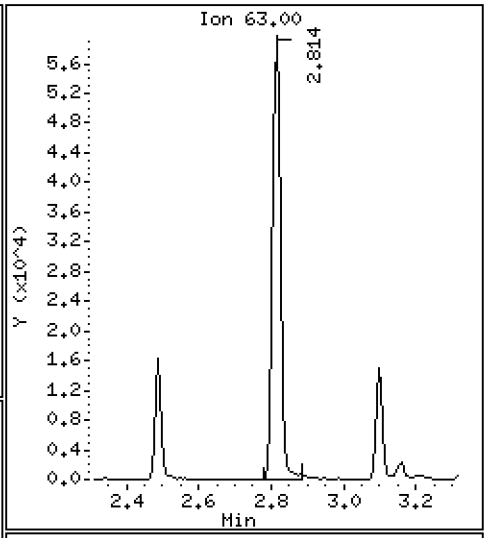
Sample Info: 1235;;1;1;2;;;

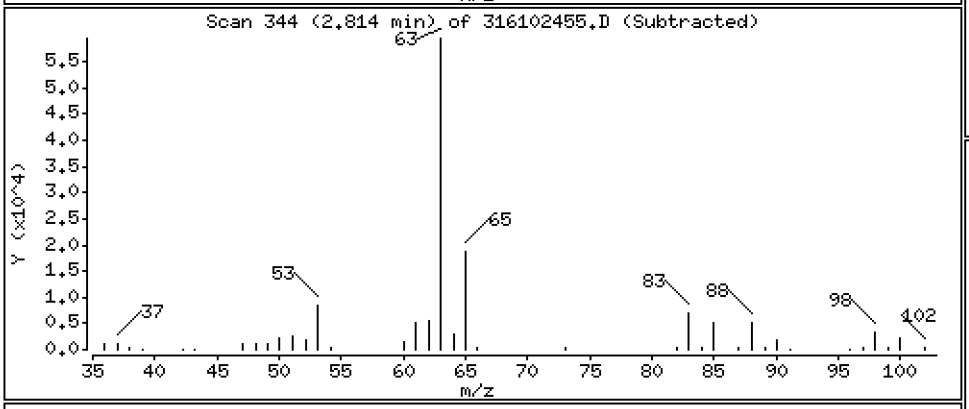
Purge Volume: 5.0 Operator: CJG

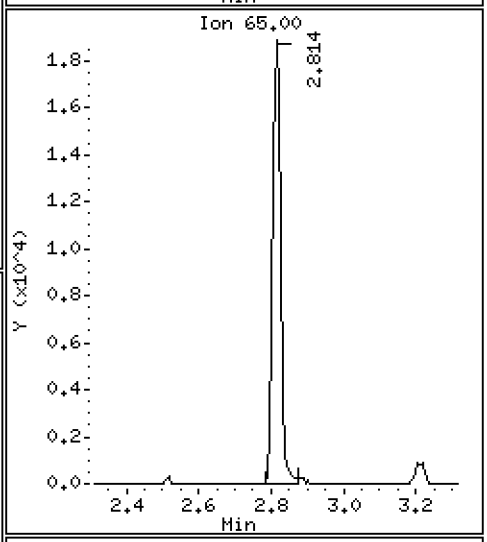
Column phase: DB-VRX Column diameter: 0.25

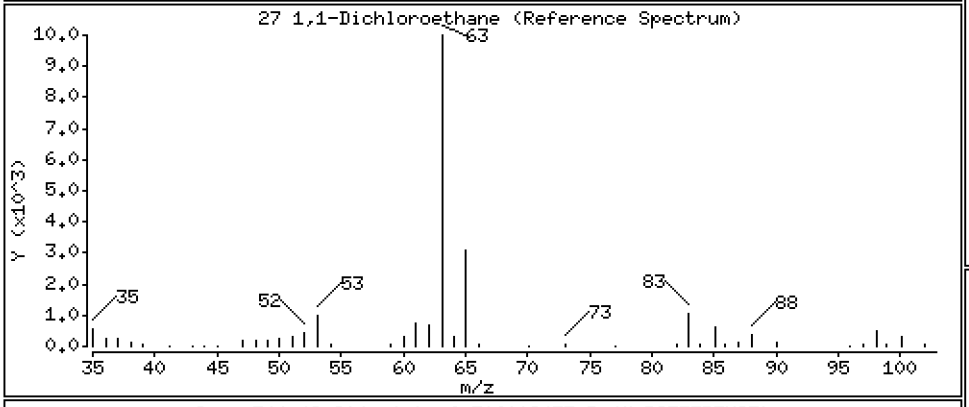
27 1,1-Dichloroethane Concentration: 5.51333 ug/L

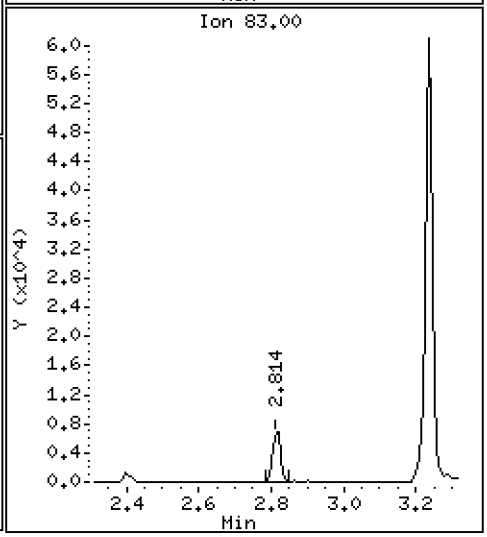


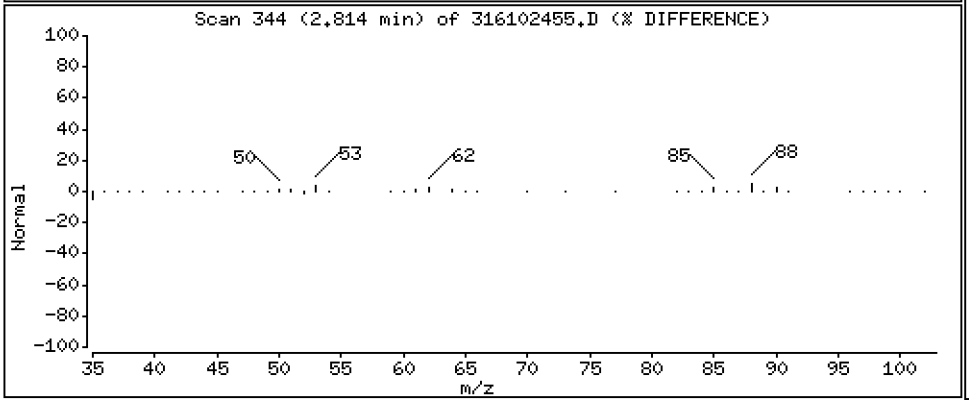












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 36

Date : 25-OCT-2016 00:08

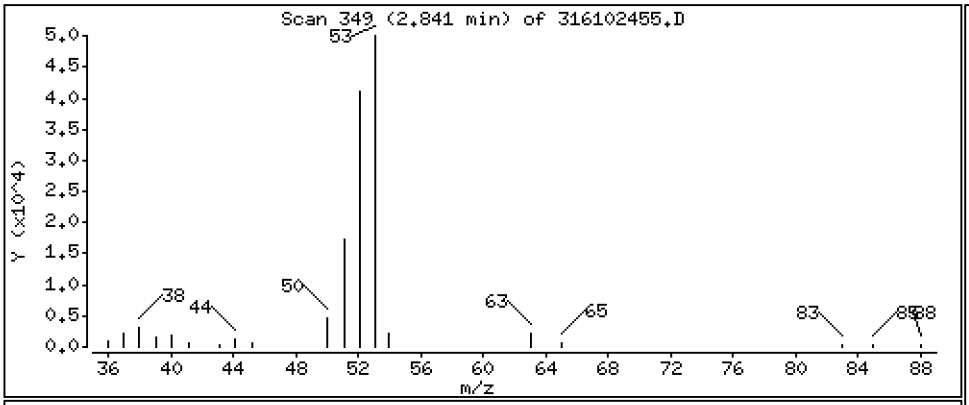
Client ID: Instrument: ms03.i

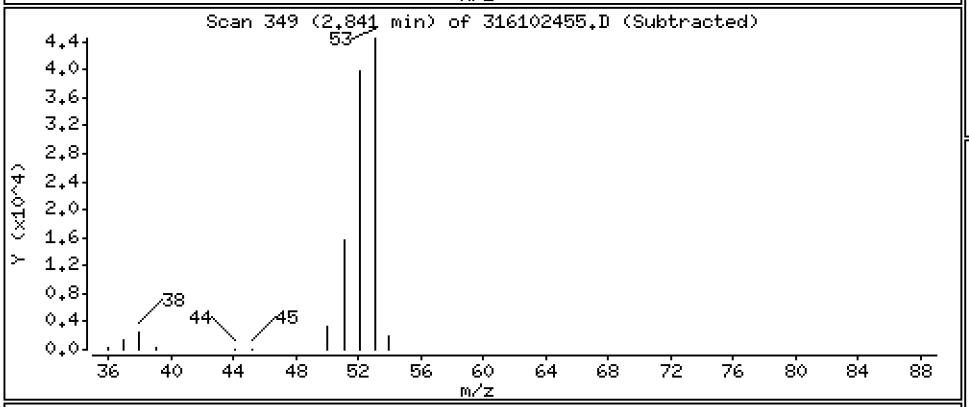
Sample Info: 1235;;1;1;2;;;

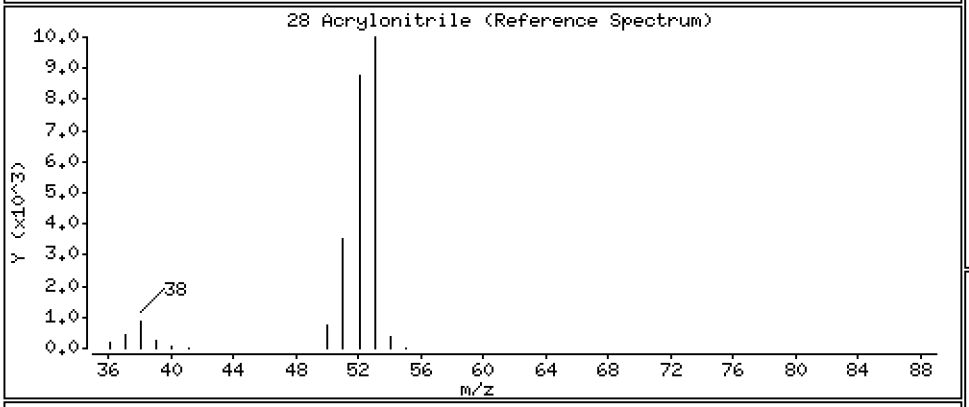
Purge Volume: 5.0 Operator: CJG

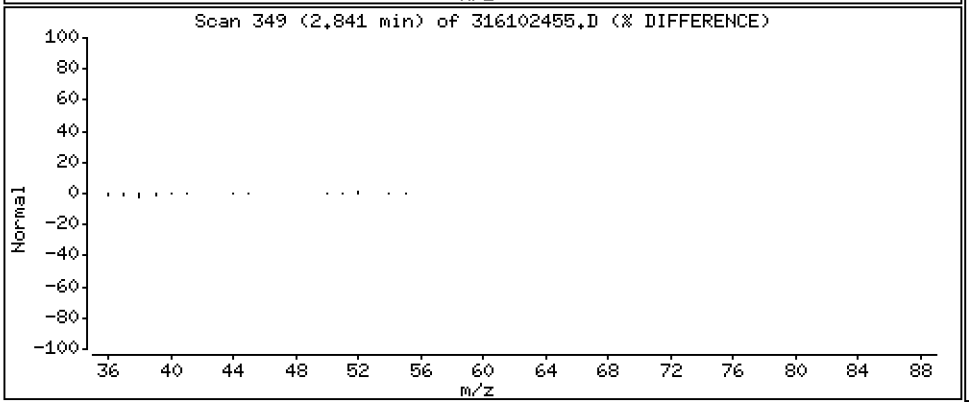
Column phase: DB-VRX Column diameter: 0.25

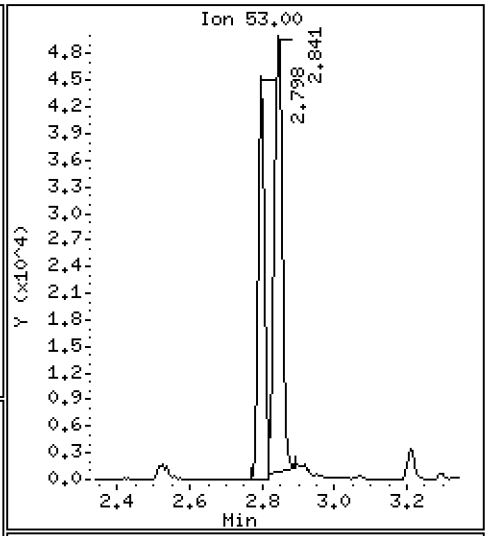
28 Acrylonitrile Concentration: 24.8024 ug/L

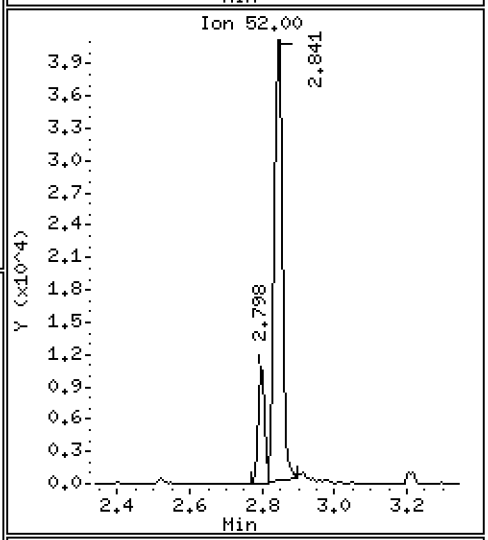


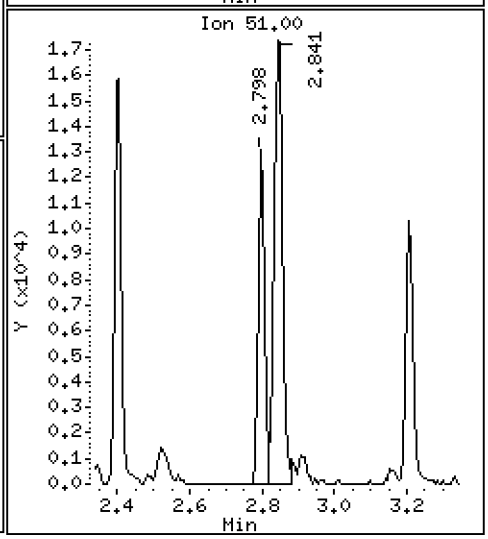












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 37

Date : 25-OCT-2016 00:08

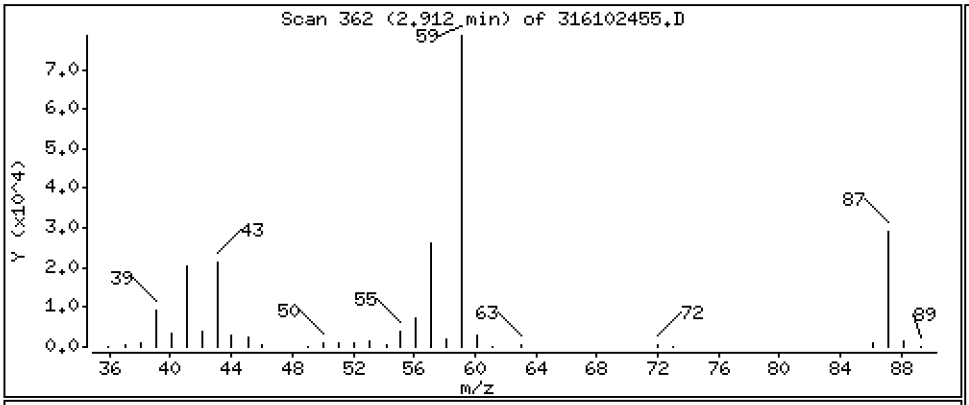
Client ID: Instrument: ms03.i

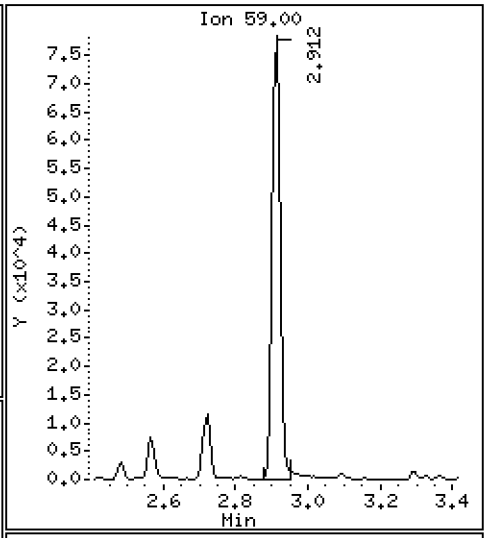
Sample Info: 1235;;1;1;2;;;

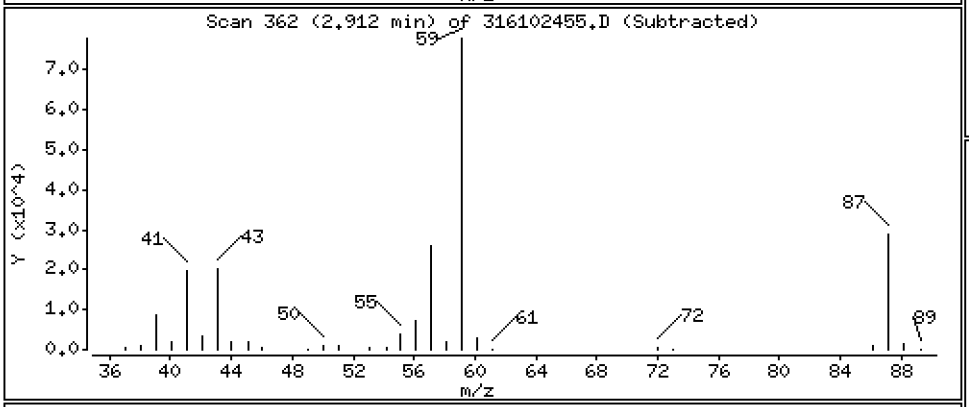
Purge Volume: 5.0 Operator: CJG

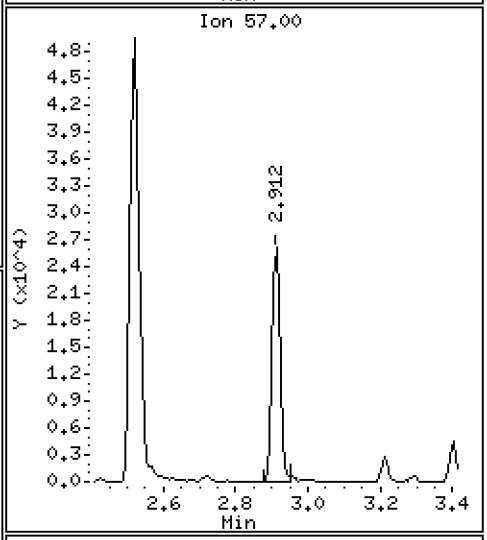
Column phase: DB-VRX Column diameter: 0.25

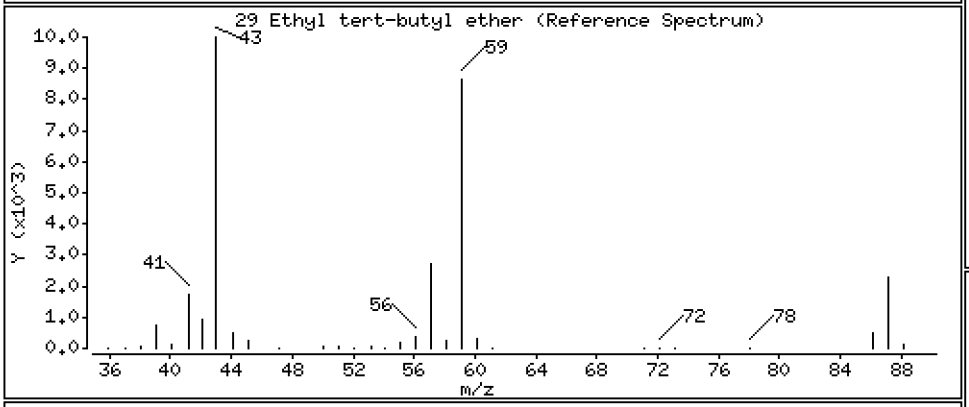
29 Ethyl tert-butyl ether Concentration: 4.47169 ug/L

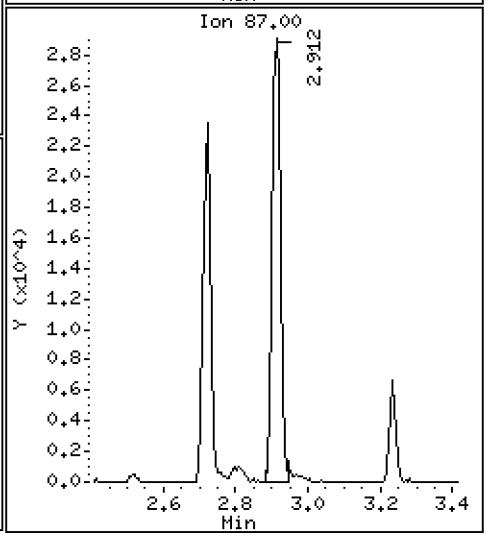


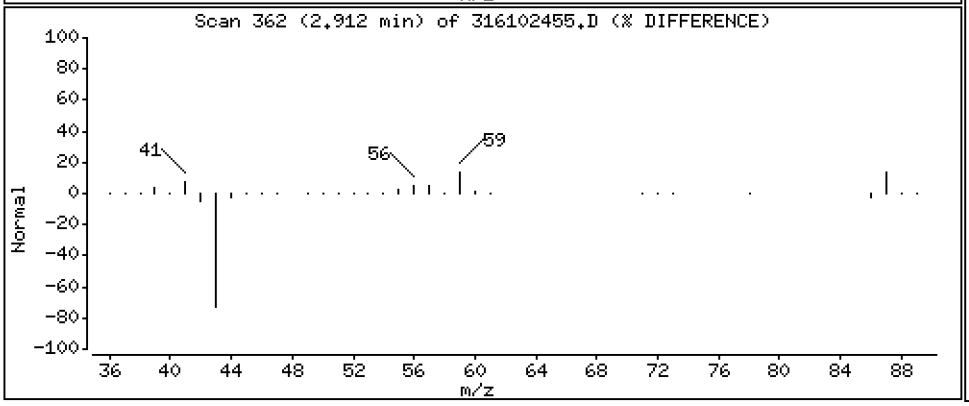












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 38

Date : 25-OCT-2016 00:08

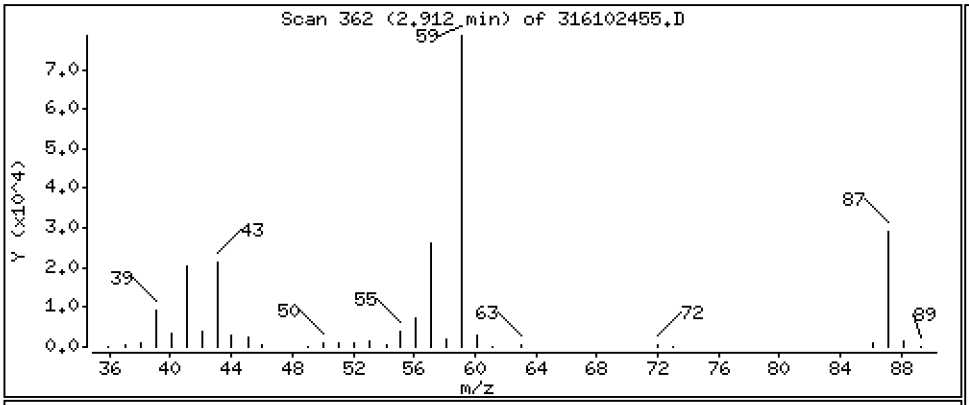
Client ID: Instrument: ms03.i

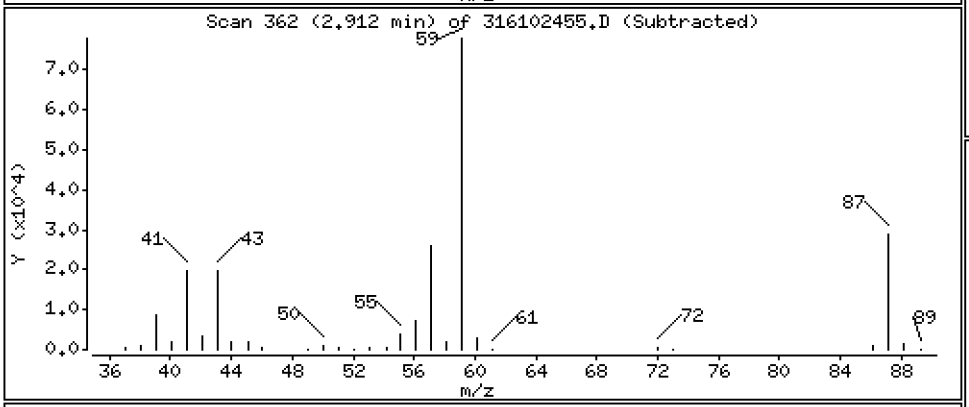
Sample Info: 1235;;1;1;2;;;

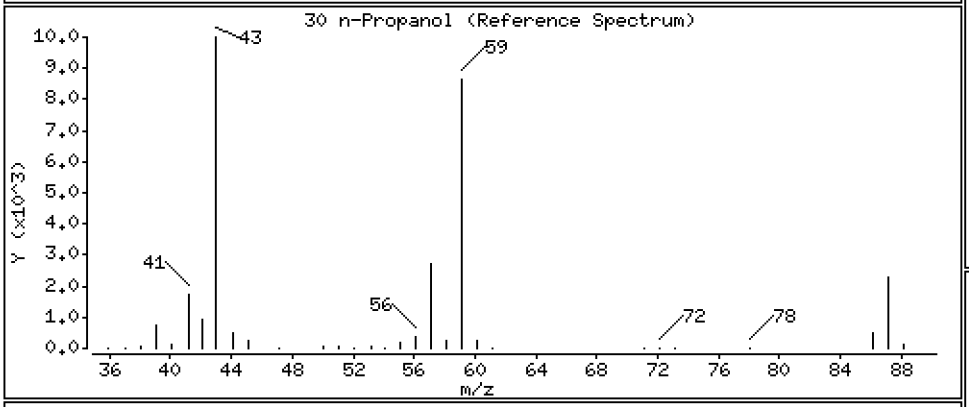
Purge Volume: 5.0 Operator: CJG

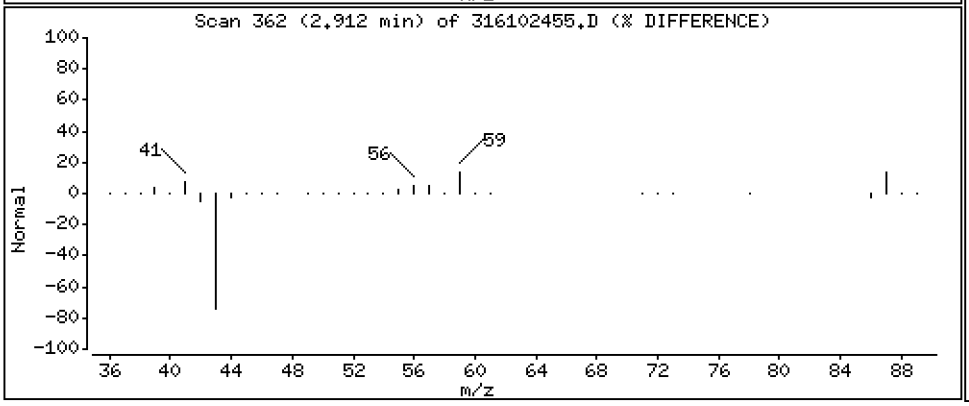
Column phase: DB-VRX Column diameter: 0.25

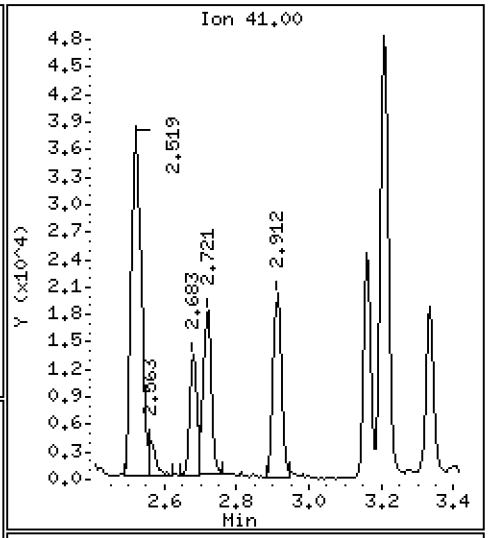
30 n-Propanol Concentration: 53.0785 ug/L

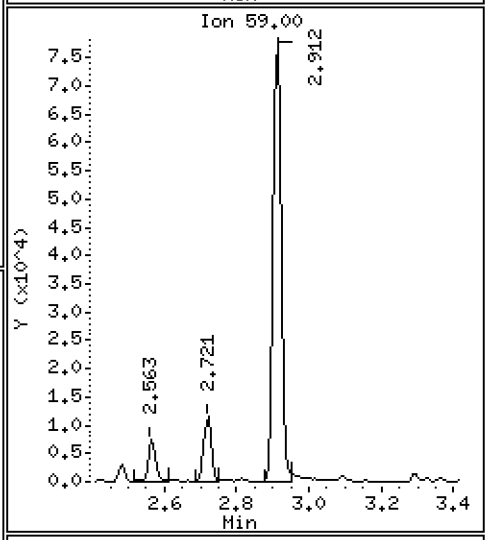


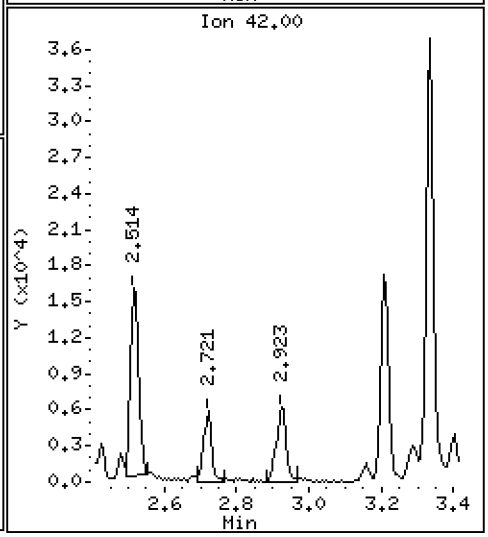












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 39

Date : 25-OCT-2016 00:08

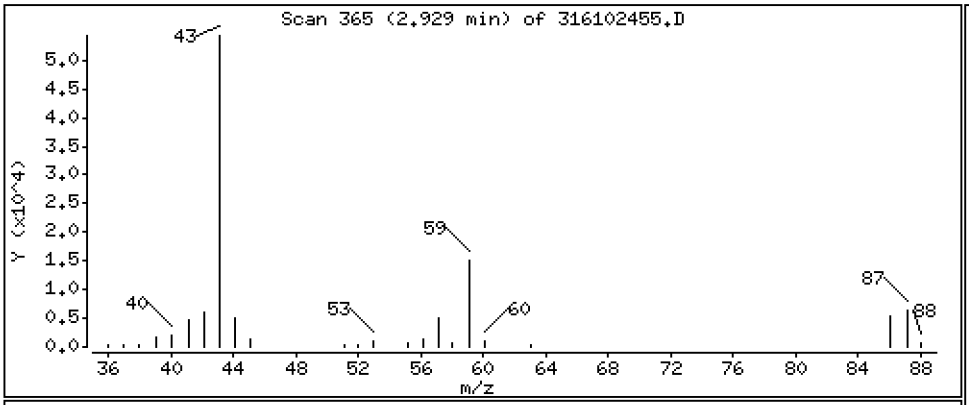
Client ID: Instrument: ms03.i

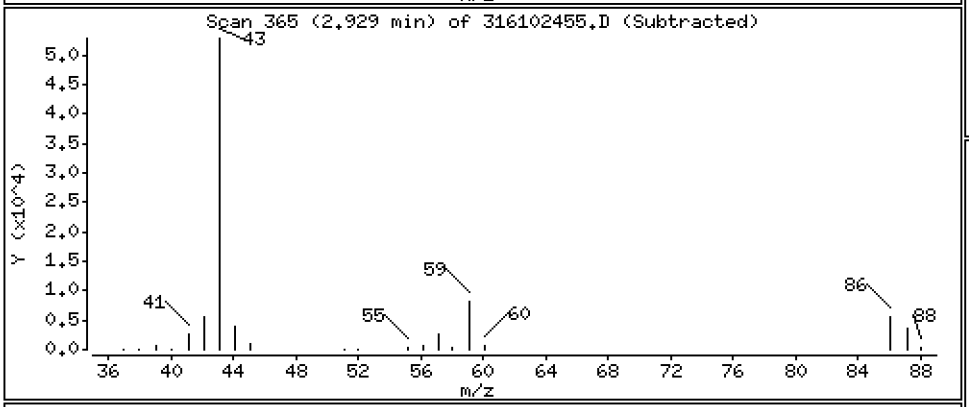
Sample Info: 1235;;1;1;2;;;

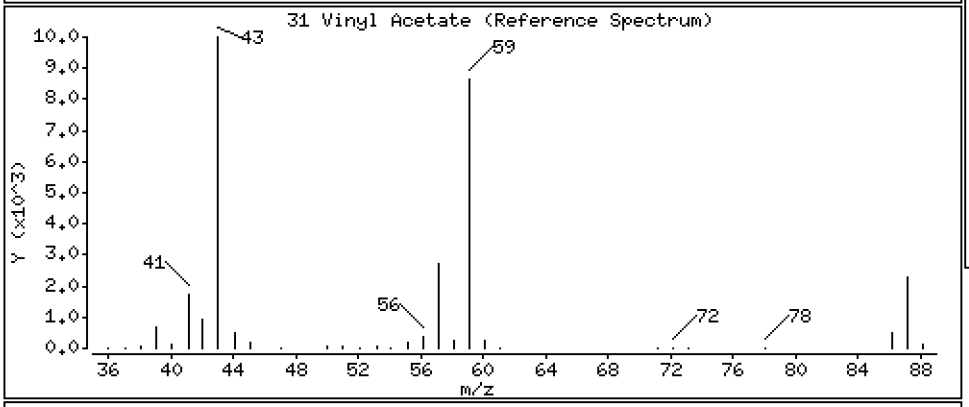
Purge Volume: 5.0 Operator: CJG

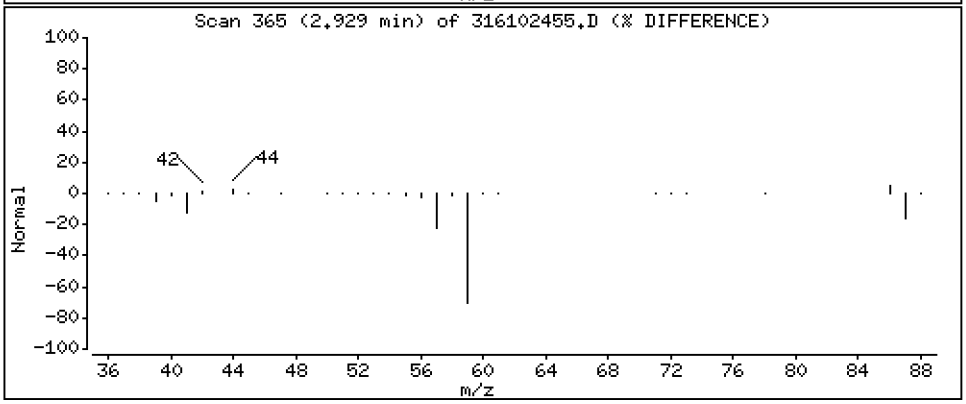
Column phase: DB-VRX Column diameter: 0.25

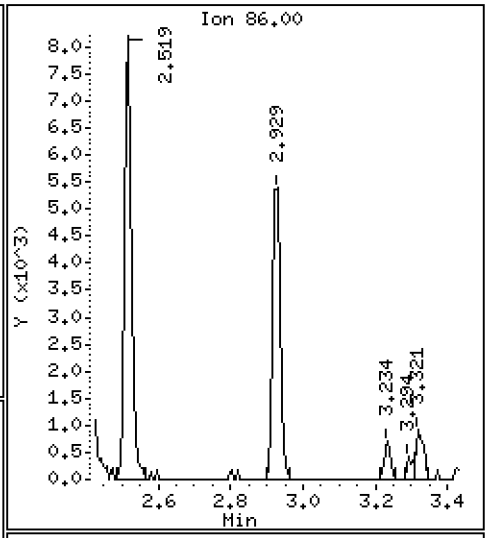
31 Vinyl Acetate Concentration: 4.20841 ug/L

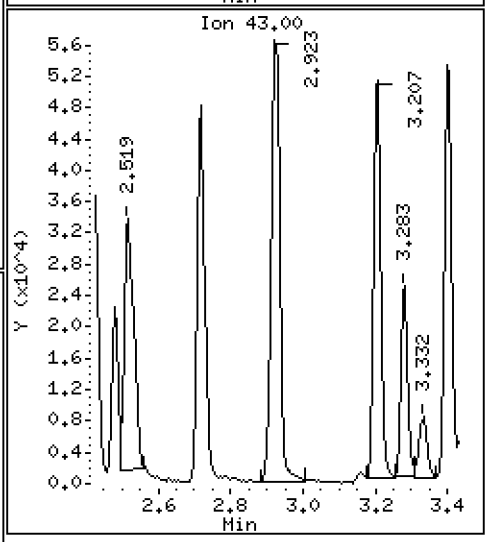












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 40

Date : 25-OCT-2016 00:08

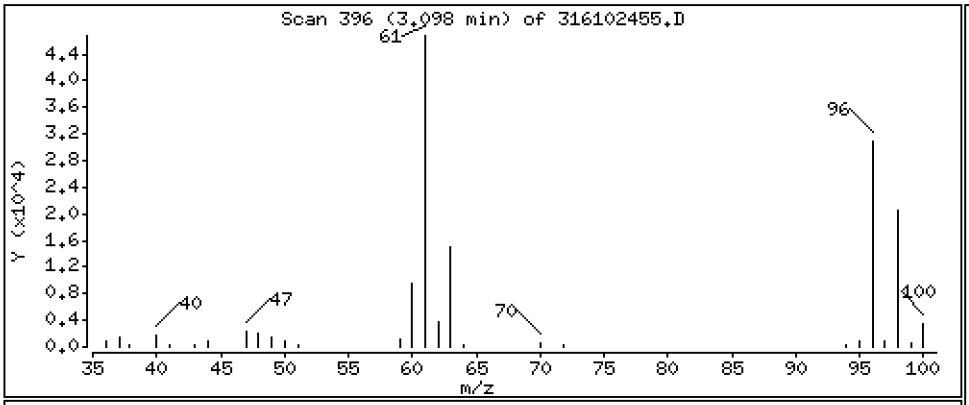
Client ID: Instrument: ms03.i

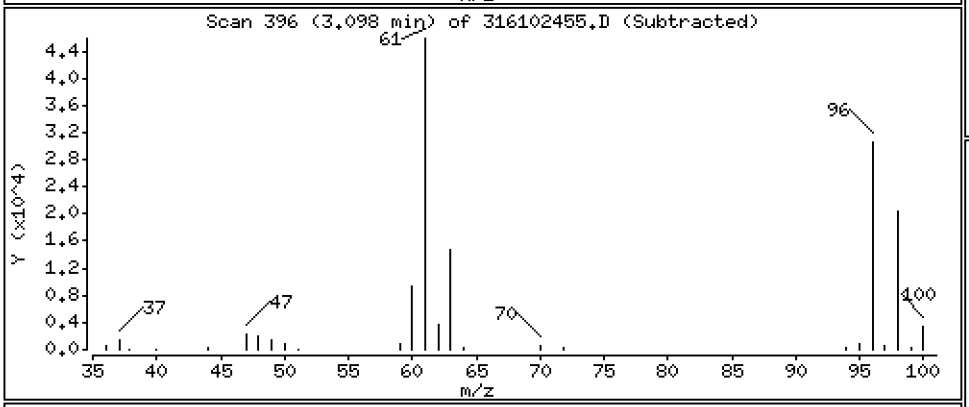
Sample Info: 1235;;1;1;2;;;

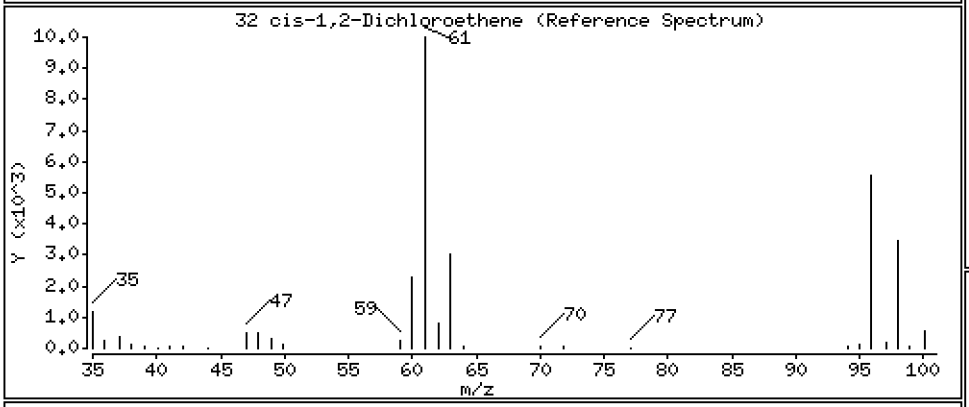
Purge Volume: 5.0 Operator: CJG

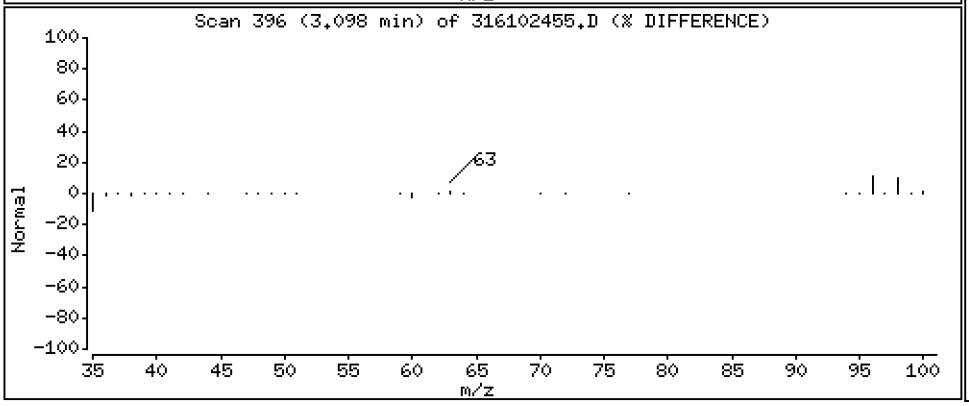
Column phase: DB-VRX Column diameter: 0.25

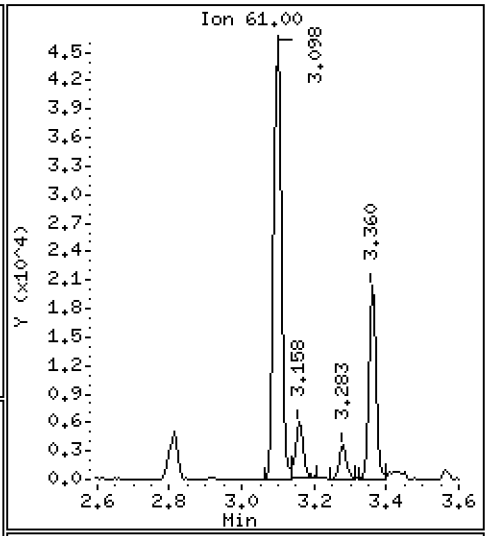
32 cis-1,2-Dichloroethene Concentration: 5.30145 ug/L

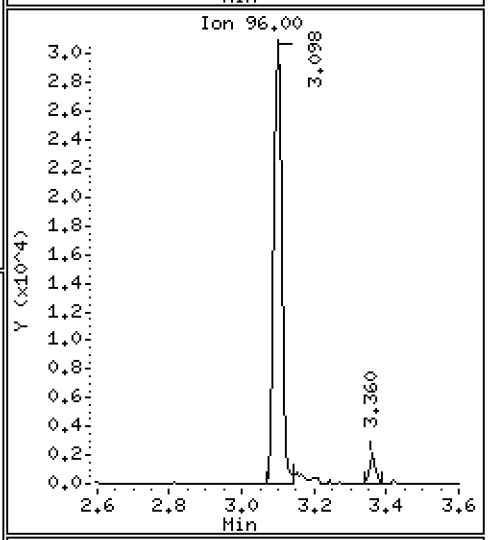


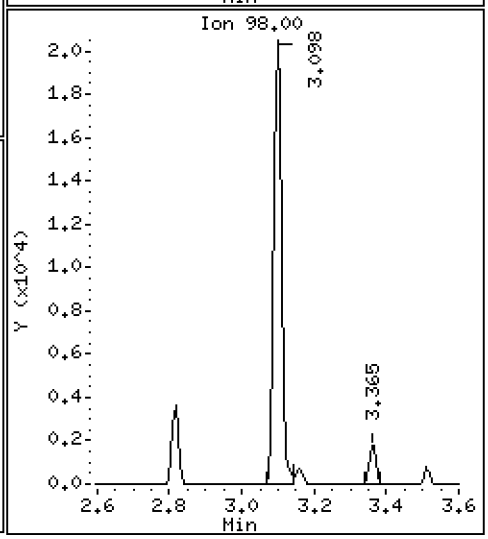












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 41

Date : 25-OCT-2016 00:08

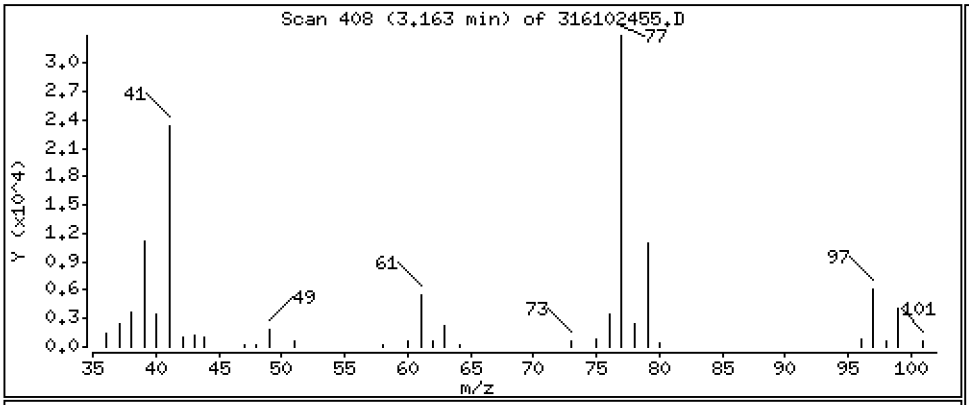
Client ID: Instrument: ms03.i

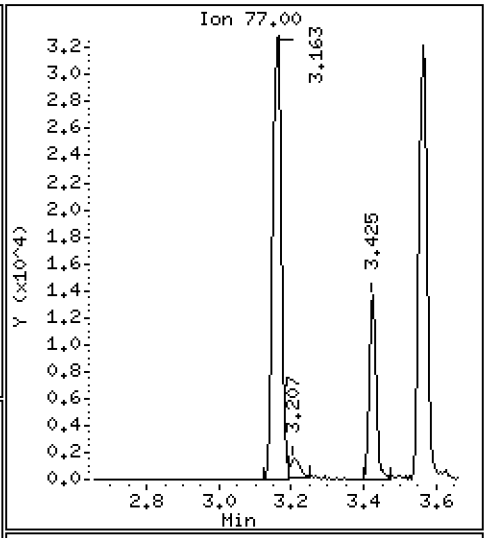
Sample Info: 1235;;1;1;2;;;

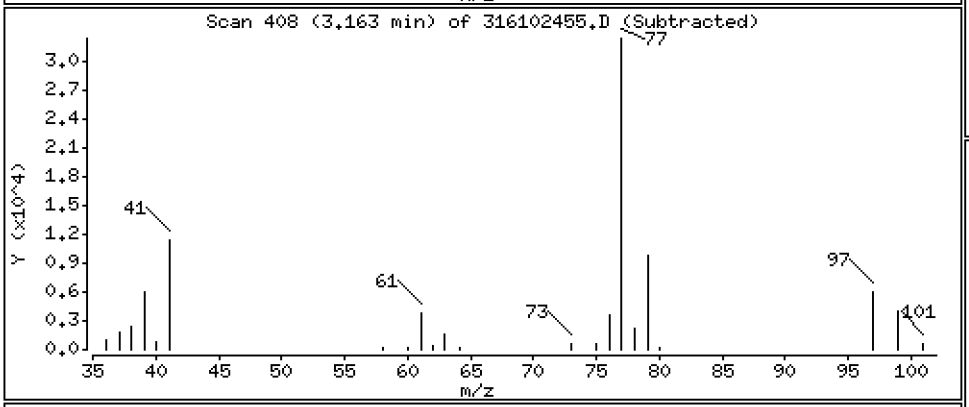
Purge Volume: 5.0 Operator: CJG

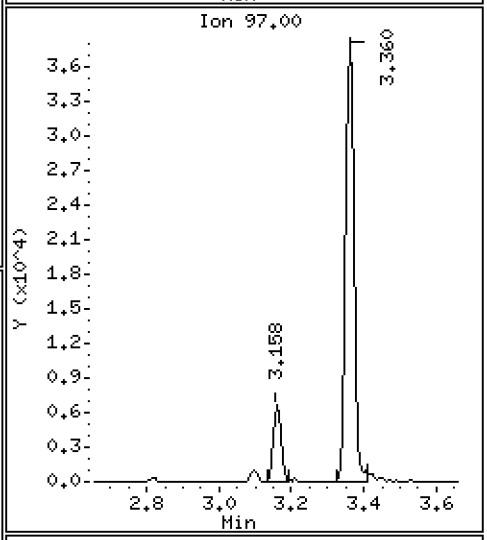
Column phase: DB-VRX Column diameter: 0.25

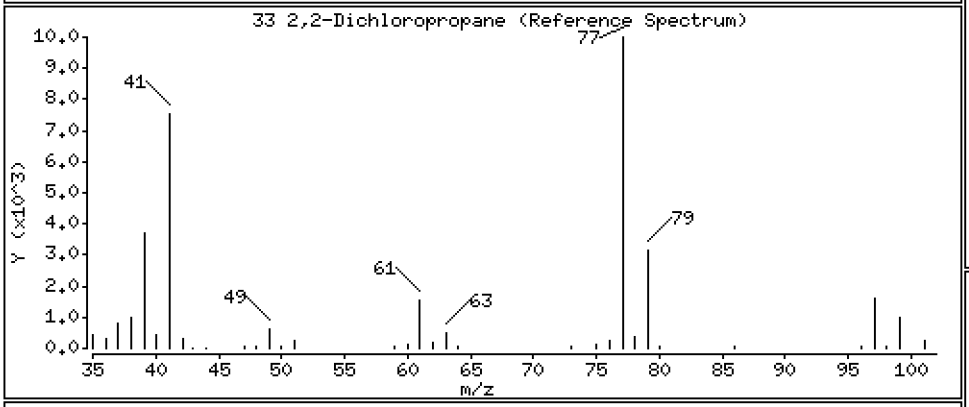
33 2,2-Dichloropropane Concentration: 5.15694 ug/L

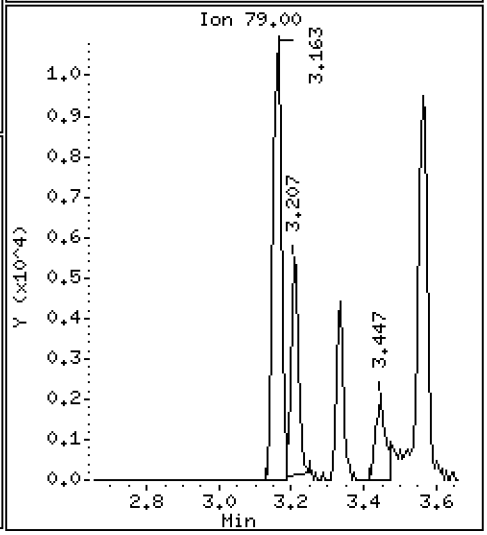


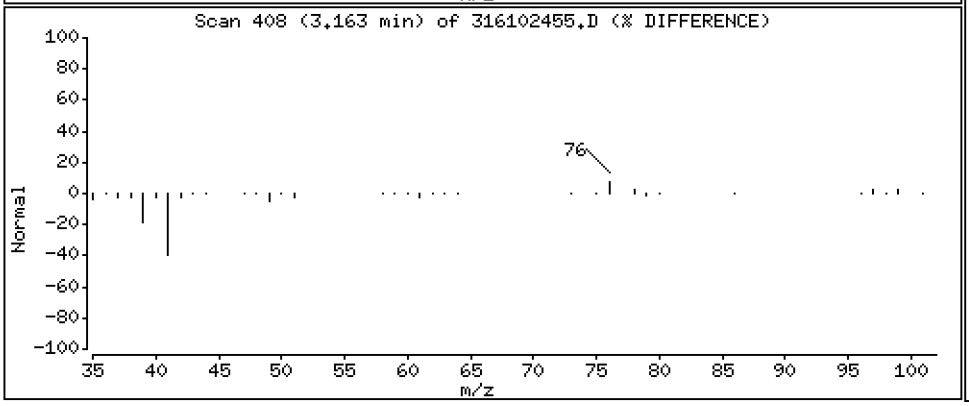












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 42

Date : 25-OCT-2016 00:08

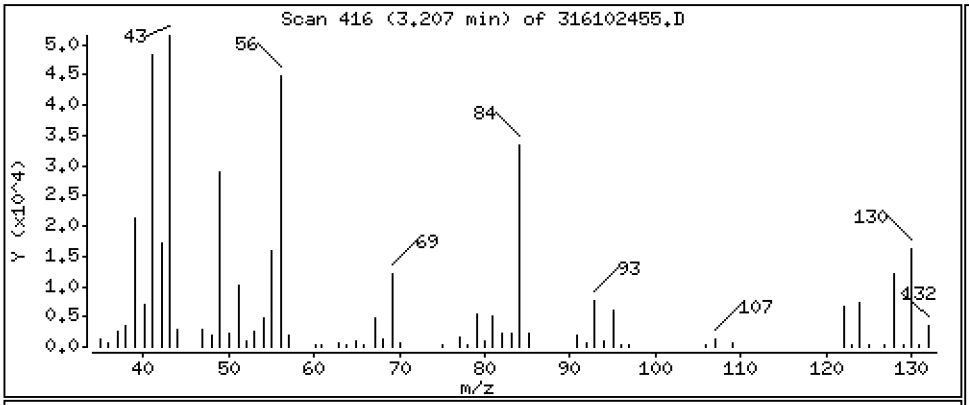
Client ID: Instrument: ms03.i

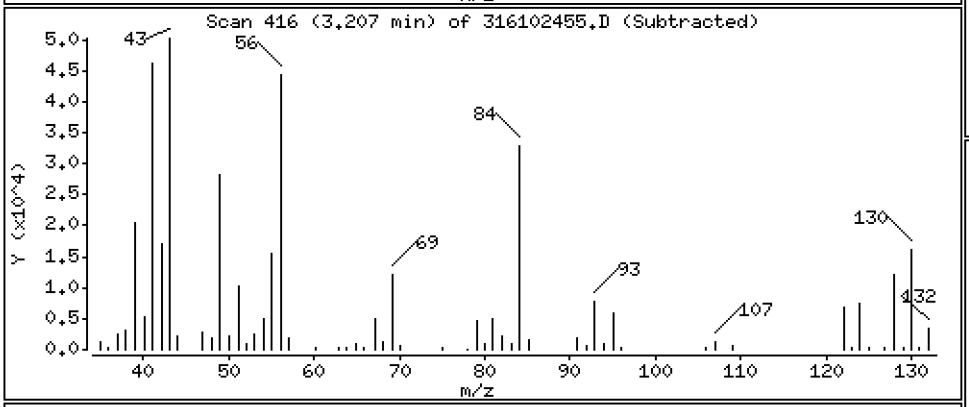
Sample Info: 1235;;1;1;2;;;

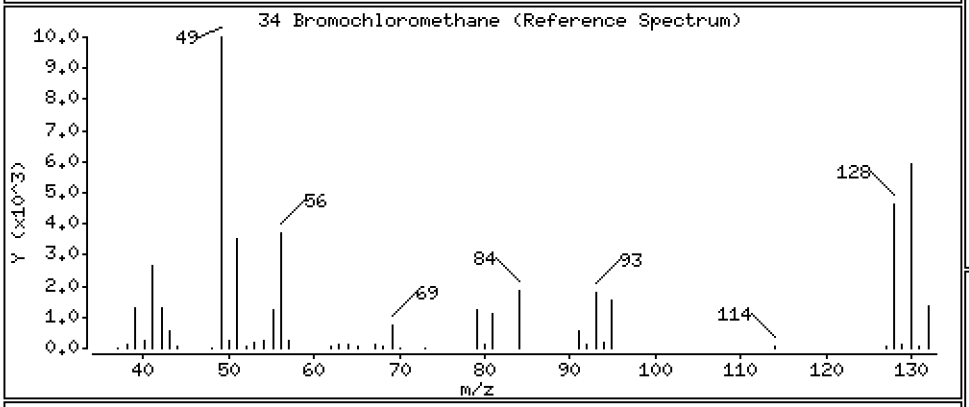
Purge Volume: 5.0 Operator: CJG

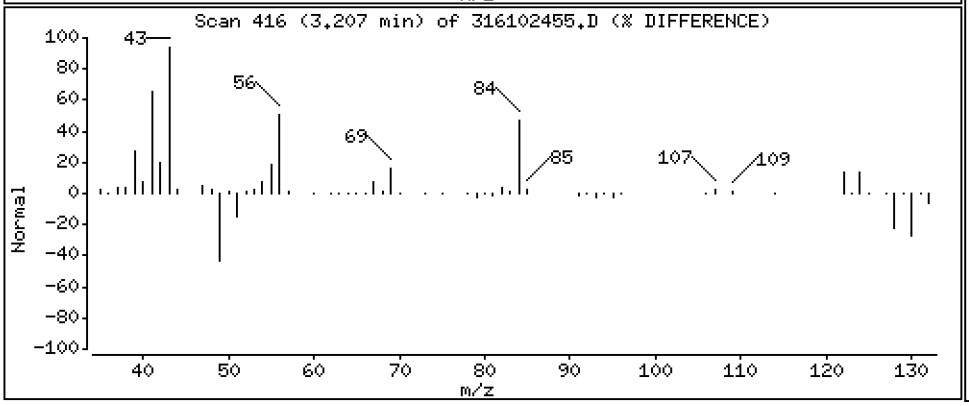
Column phase: DB-VRX Column diameter: 0.25

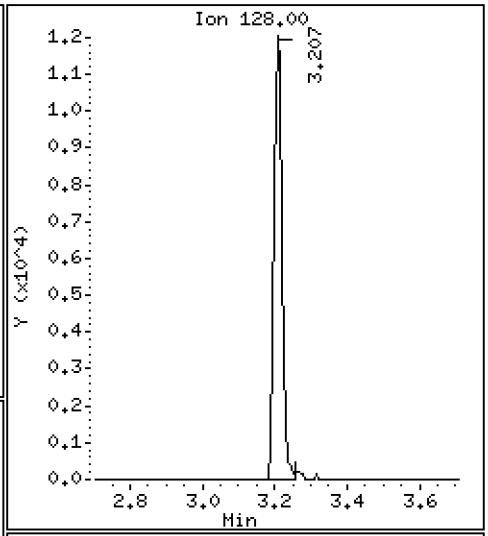
34 Bromochloromethane Concentration: 4.75087 ug/L

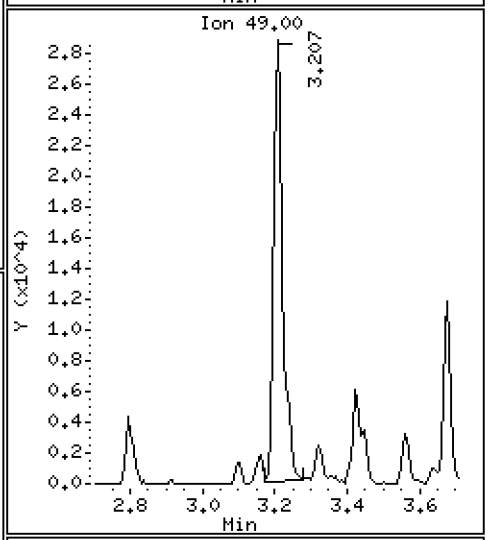


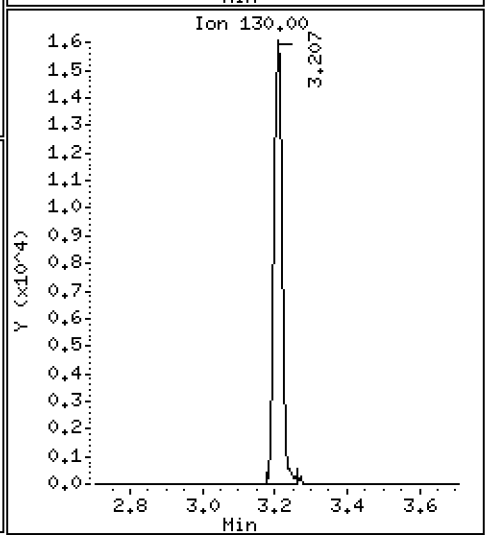












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 43

Date : 25-OCT-2016 00:08

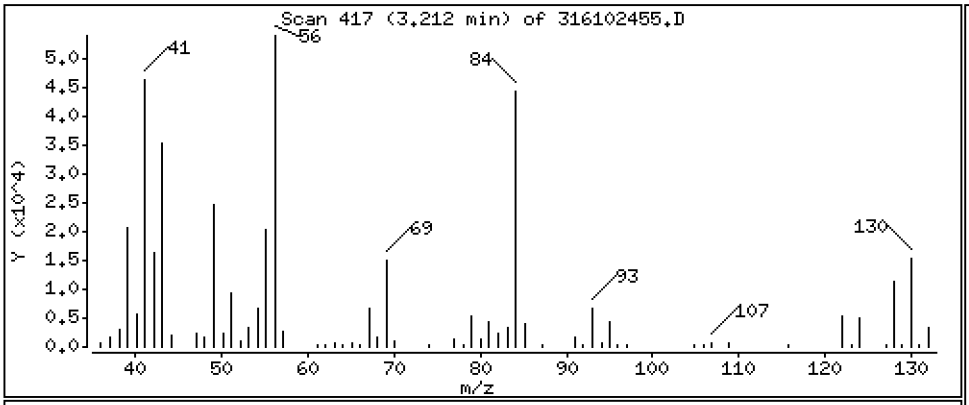
Client ID: Instrument: ms03.i

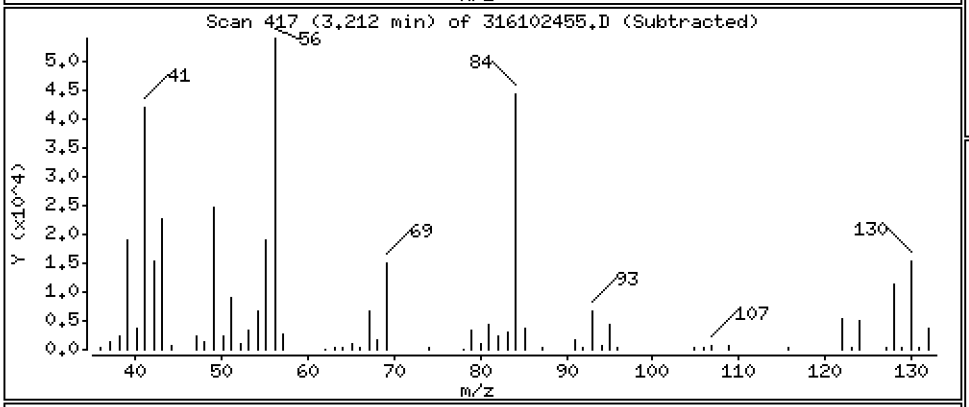
Sample Info: 1235;;1;1;2;;;

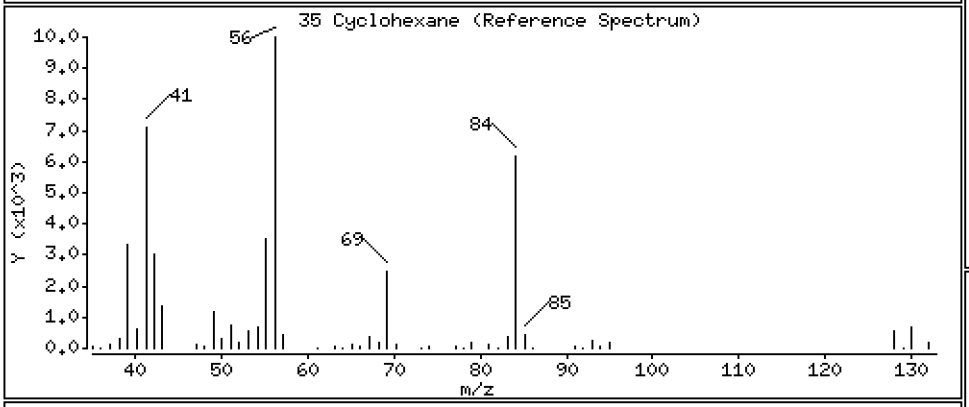
Purge Volume: 5.0 Operator: CJG

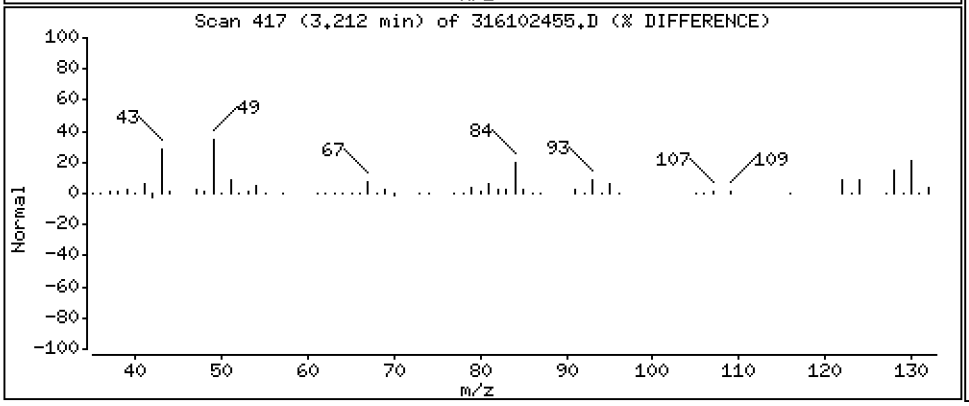
Column phase: DB-VRX Column diameter: 0.25

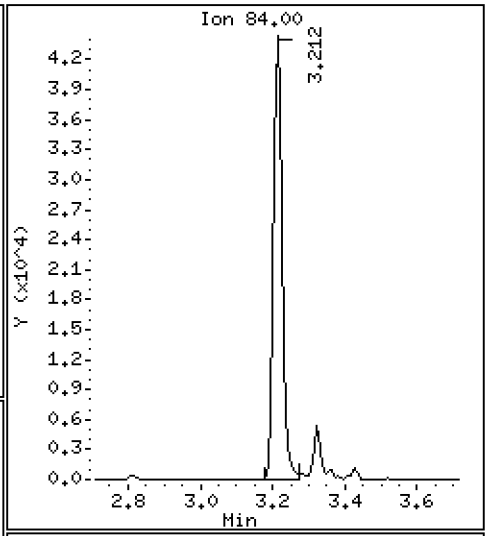
35 Cyclohexane Concentration: 5.99614 ug/L

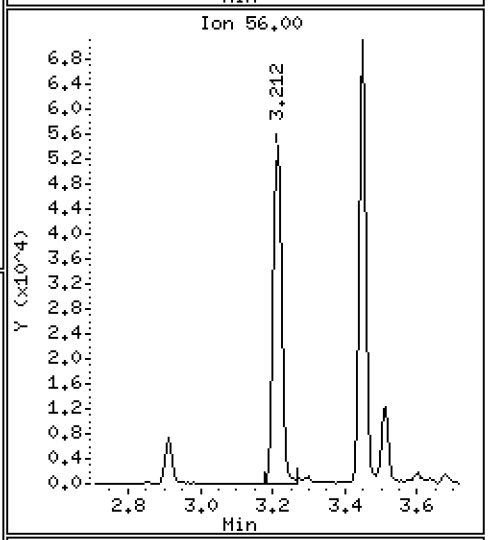


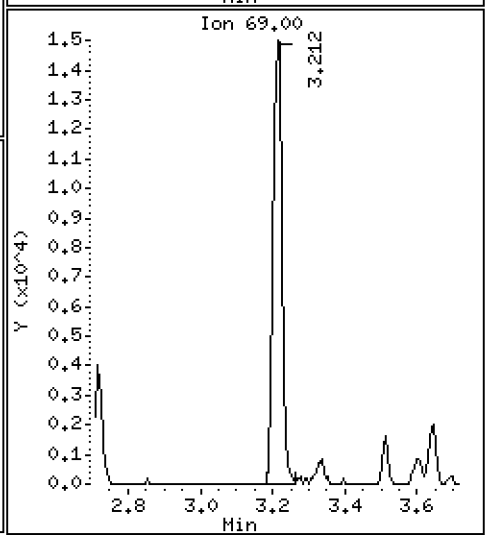












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 44

Date : 25-OCT-2016 00:08

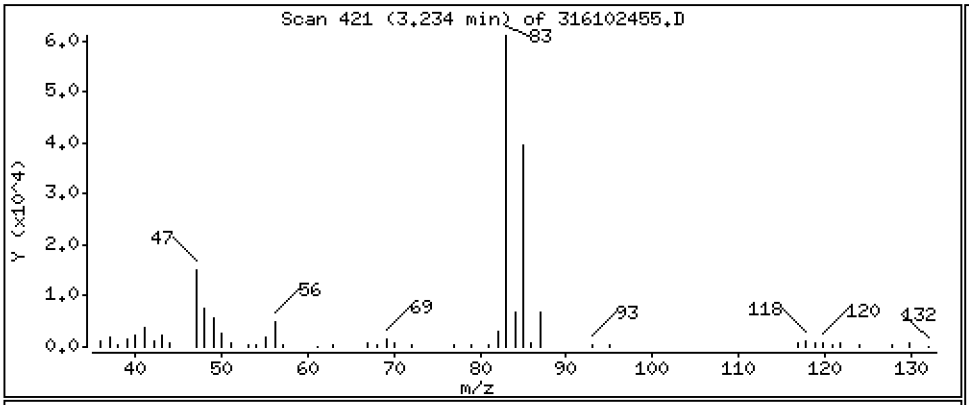
Client ID: Instrument: ms03.i

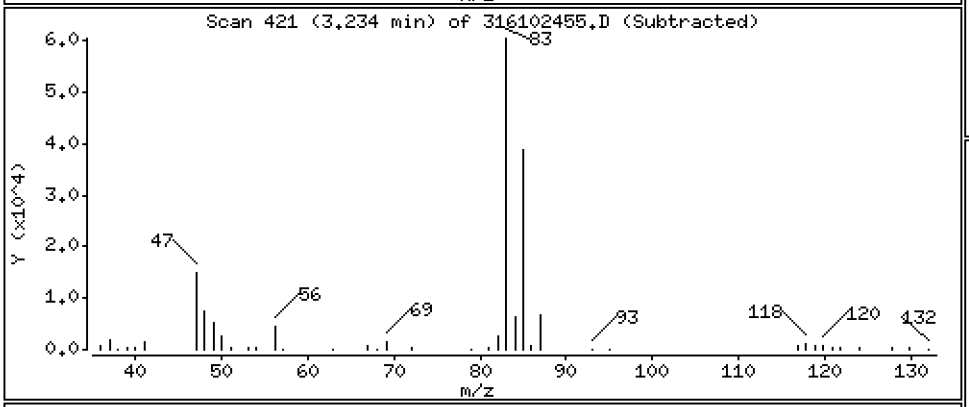
Sample Info: 1235;;1;1;2;;;

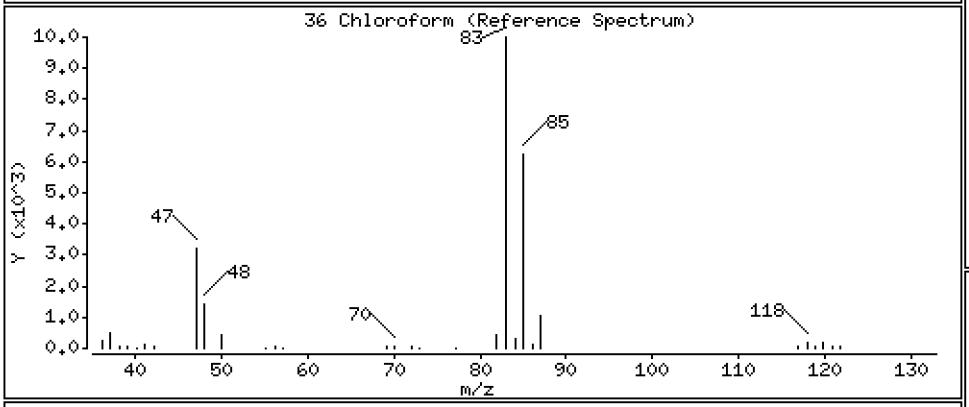
Purge Volume: 5.0 Operator: CJG

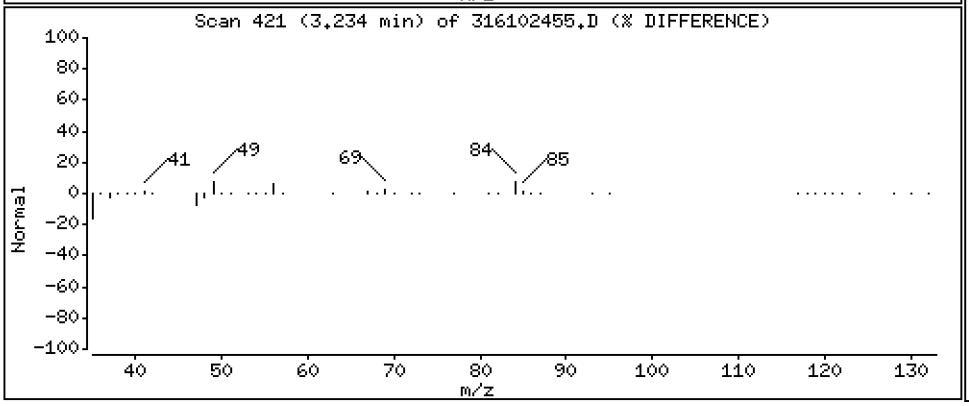
Column phase: DB-VRX Column diameter: 0.25

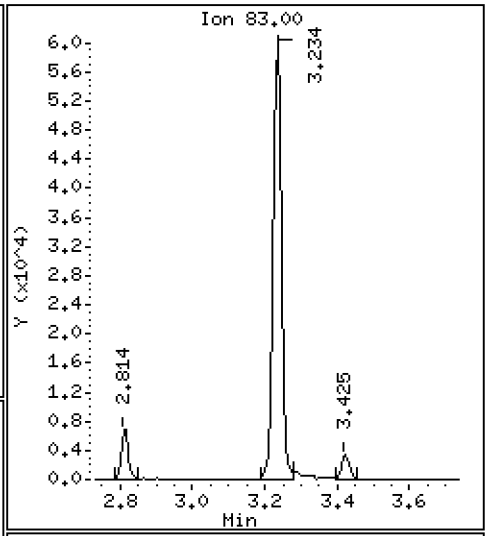
36 Chloroform Concentration: 5.86191 ug/L

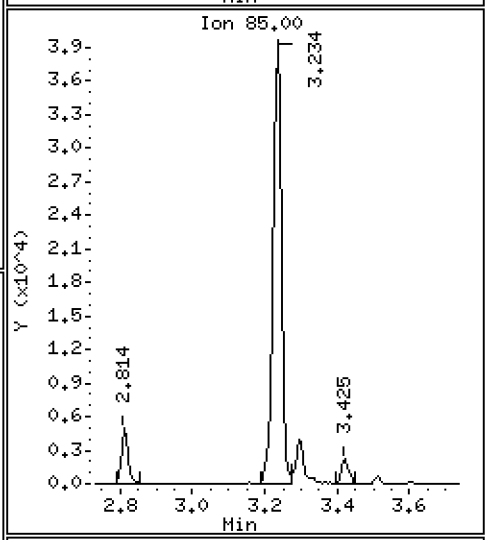


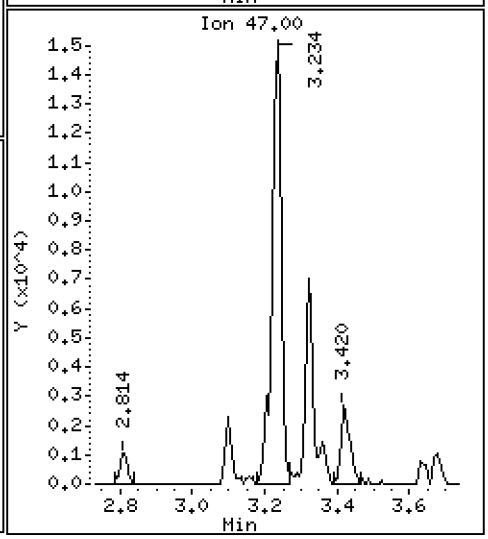












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 45

Date : 25-OCT-2016 00:08

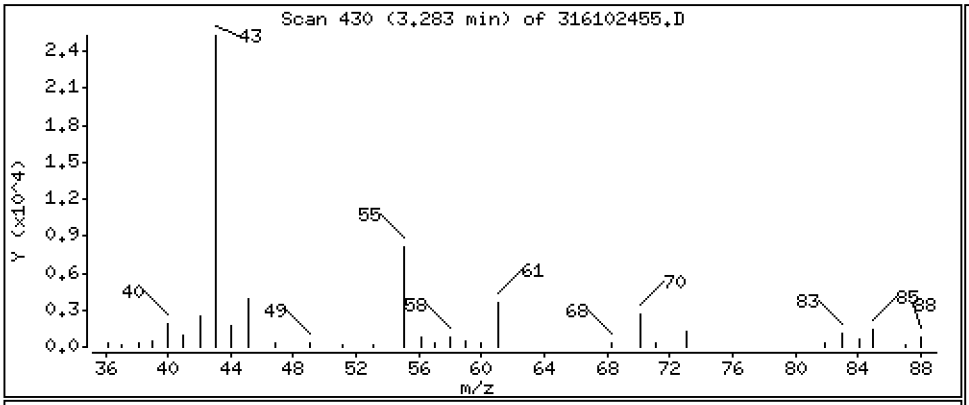
Client ID: Instrument: ms03.i

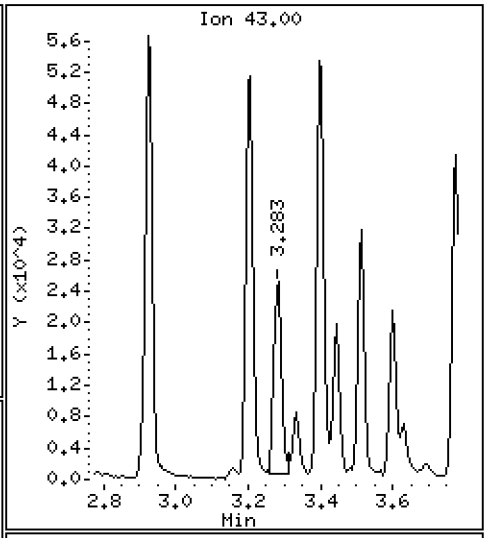
Sample Info: 1235;;1;1;2;;;

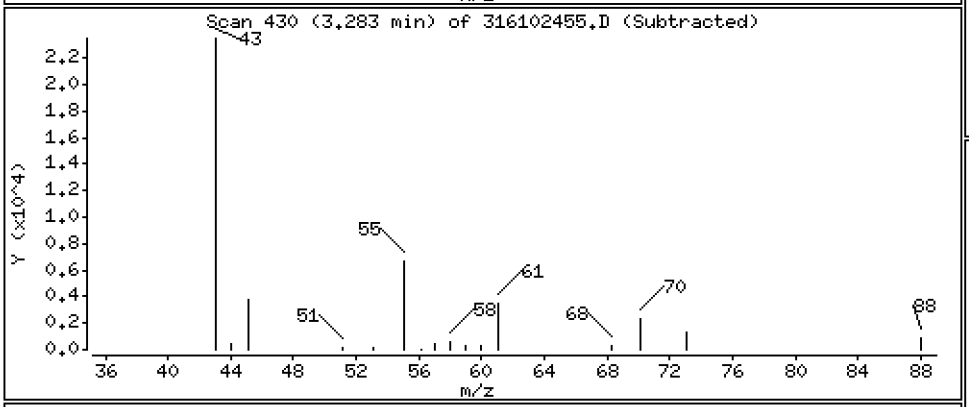
Purge Volume: 5.0 Operator: CJG

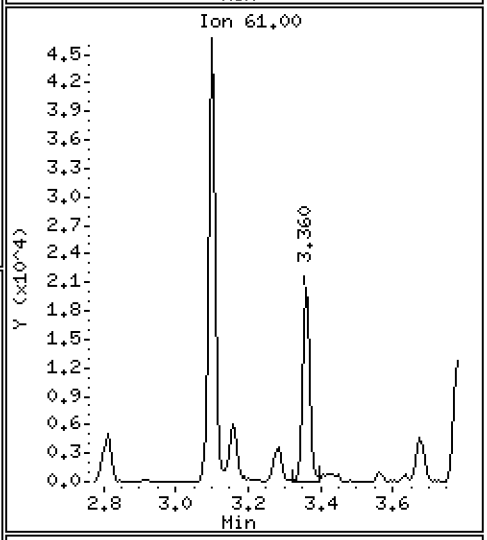
Column phase: DB-VRX Column diameter: 0.25

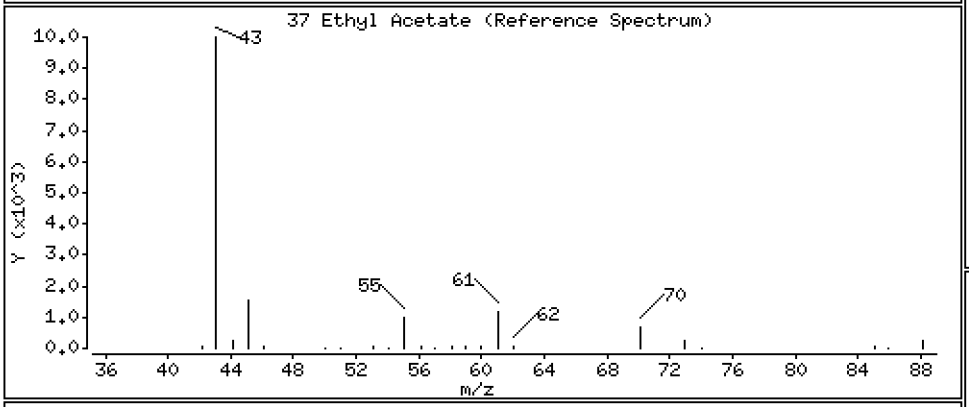
37 Ethyl Acetate Concentration: 4.63601 ug/L

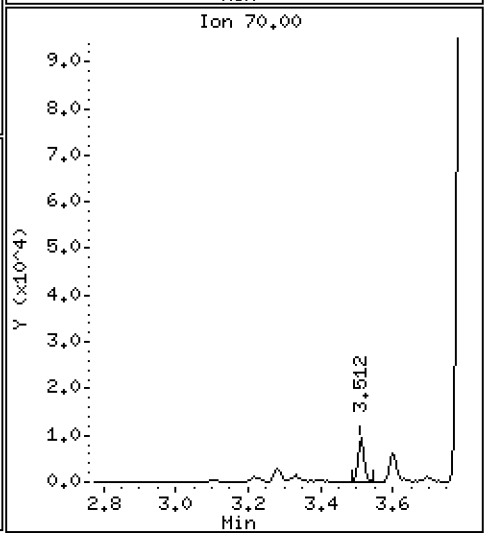


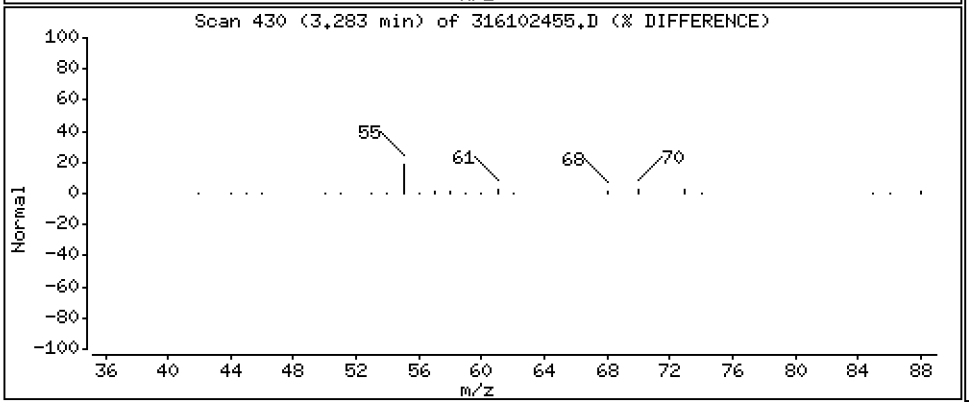












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 46

Date : 25-OCT-2016 00:08

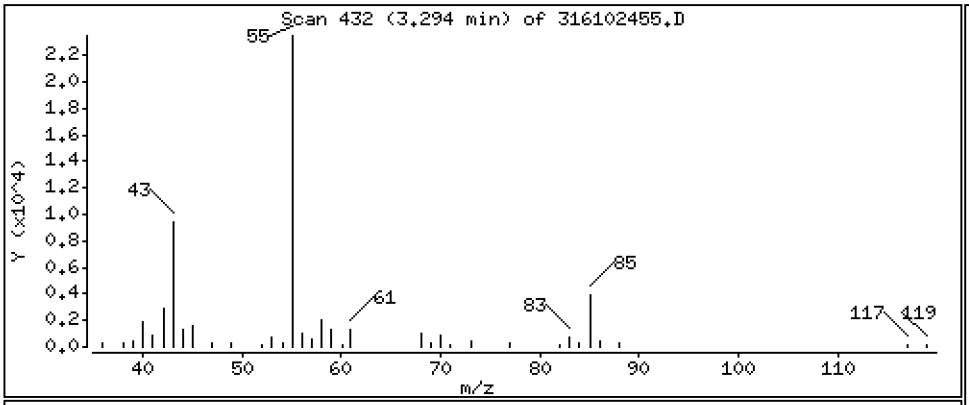
Client ID: Instrument: ms03.i

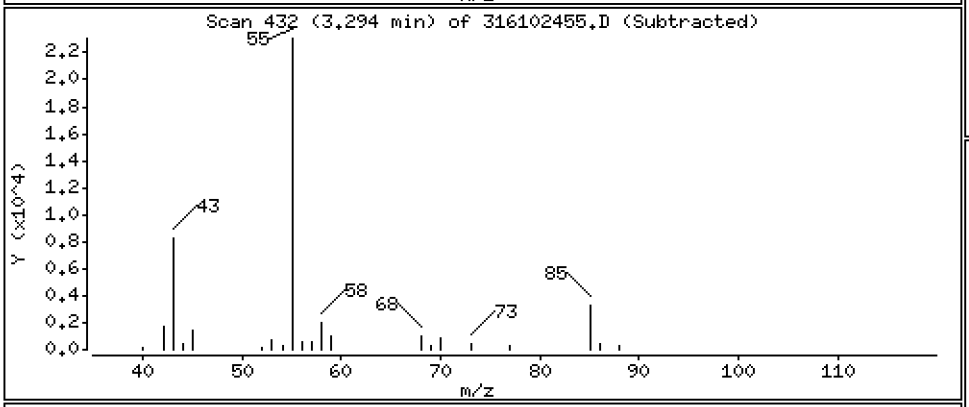
Sample Info: 1235;;1;1;2;;;

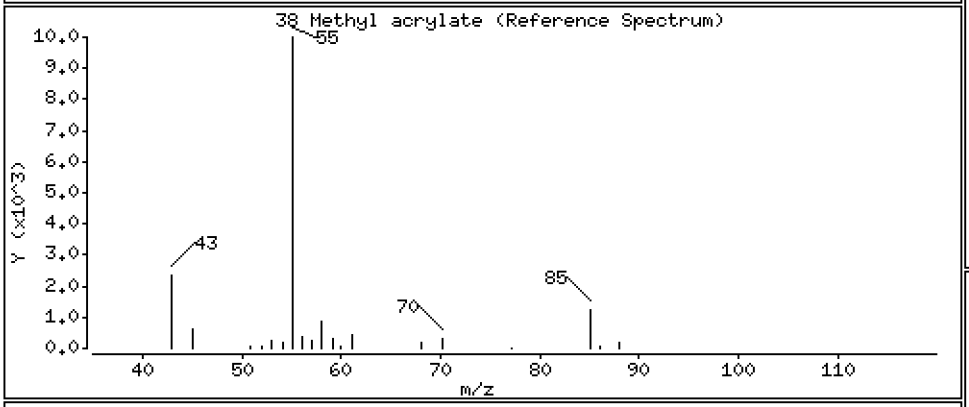
Purge Volume: 5.0 Operator: CJG

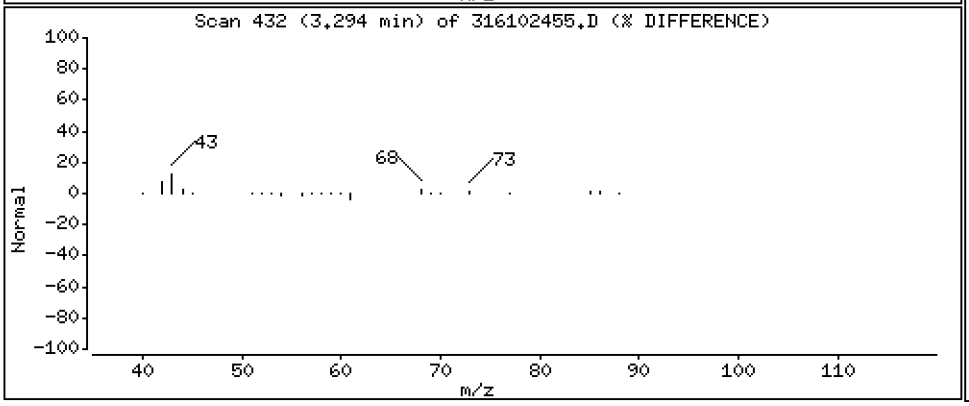
Column phase: DB-VRX Column diameter: 0.25

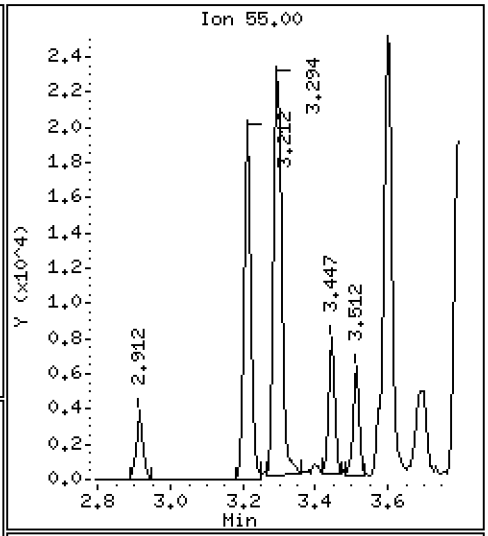
38 Methyl acrylate Concentration: 4.68903 ug/L

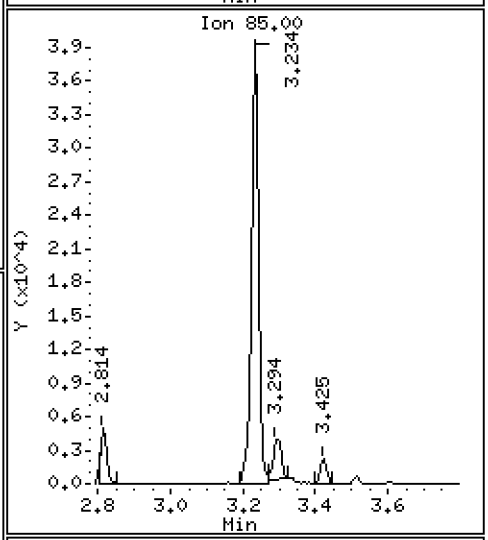


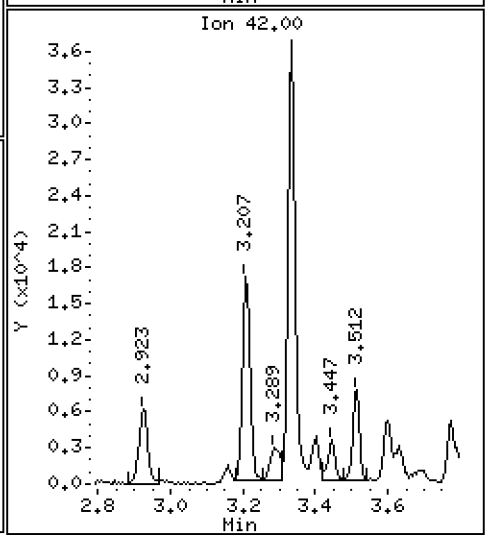












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 47

Date : 25-OCT-2016 00:08

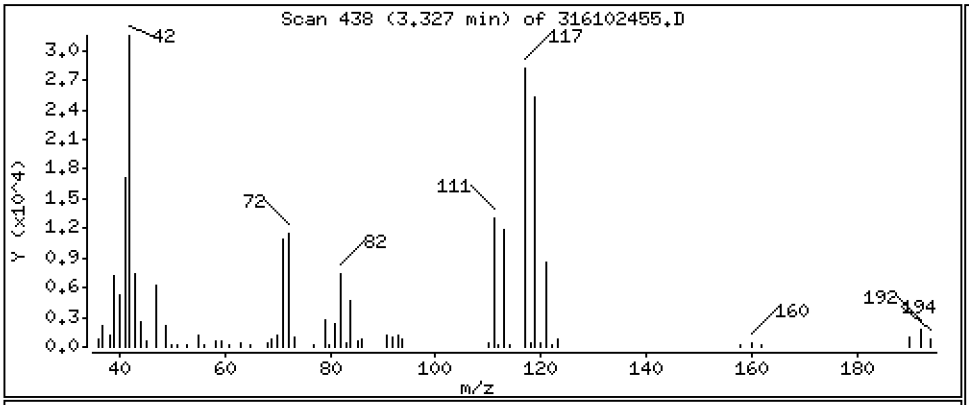
Client ID: Instrument: ms03.i

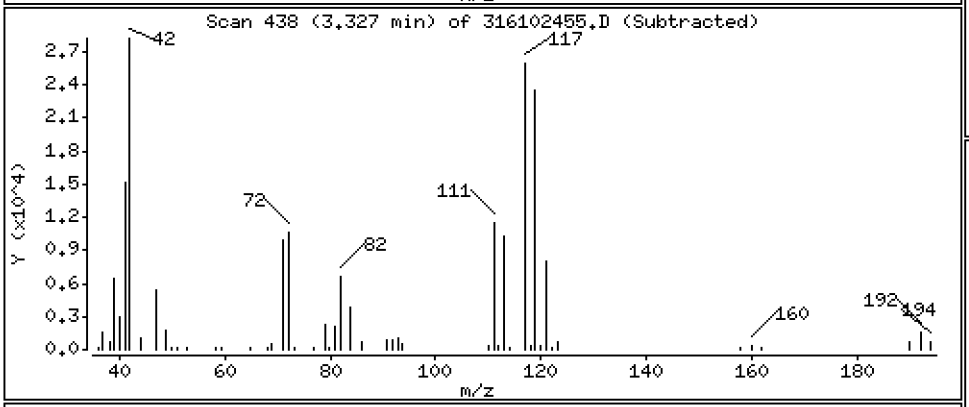
Sample Info: 1235;;1;1;2;;;

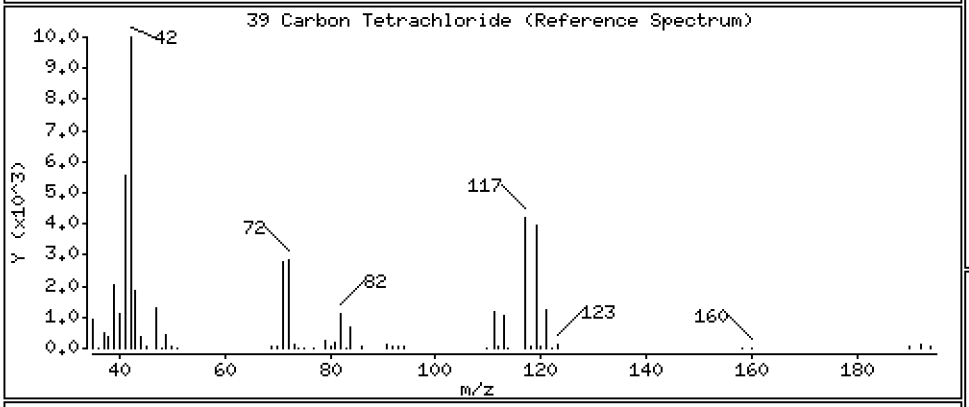
Purge Volume: 5.0 Operator: CJG

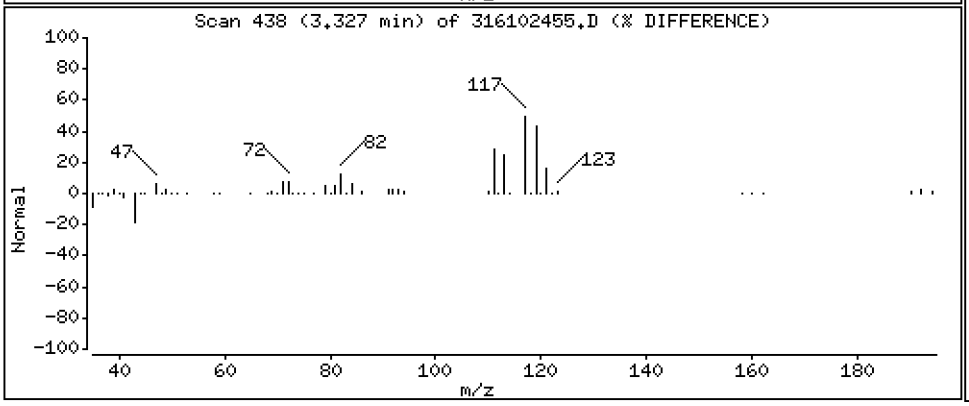
Column phase: DB-VRX Column diameter: 0.25

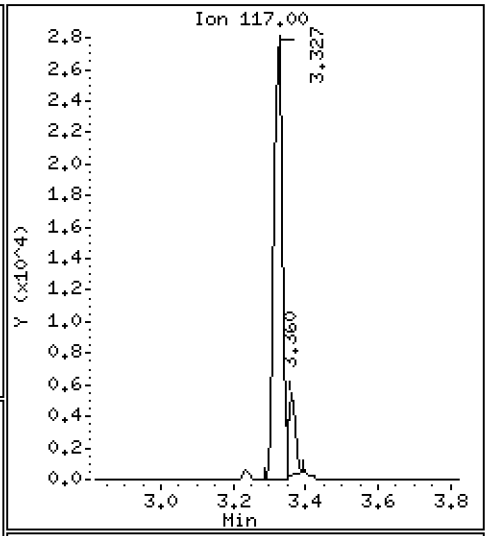
39 Carbon Tetrachloride Concentration: 5.32435 ug/L

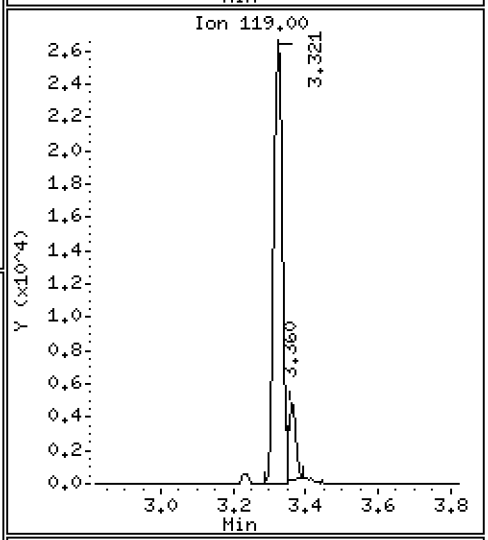


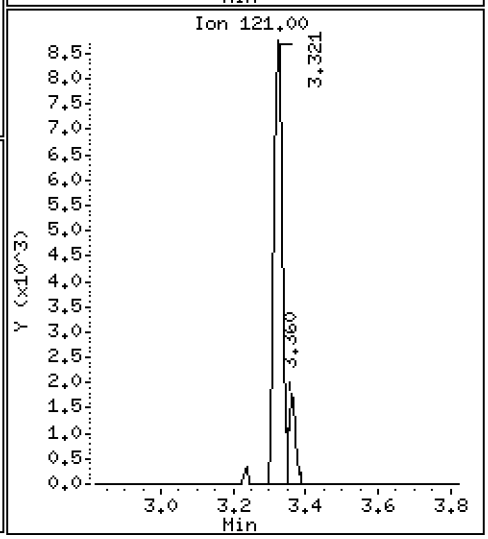












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 48

Date : 25-OCT-2016 00:08

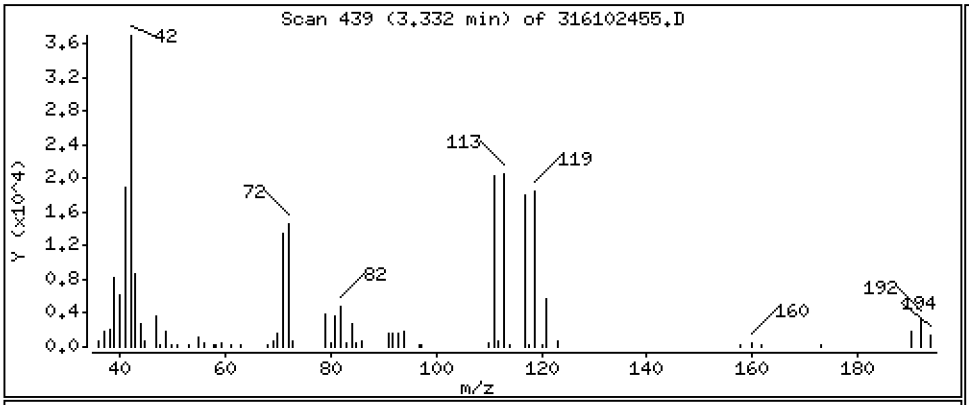
Client ID: Instrument: ms03.i

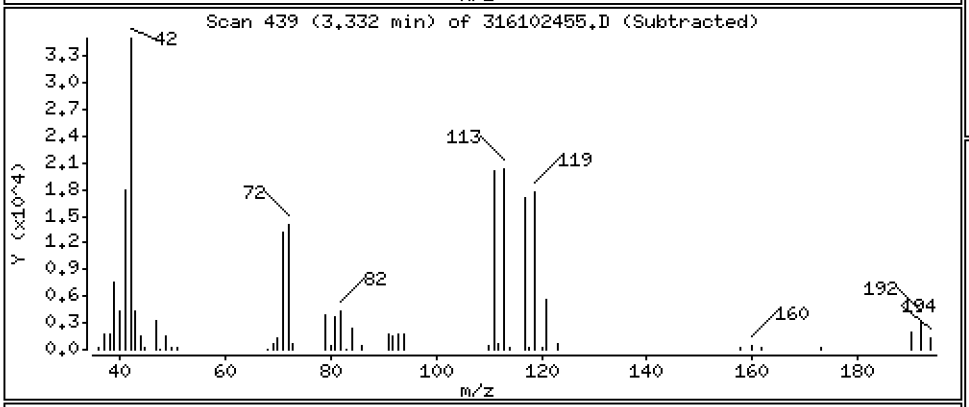
Sample Info: 1235;;1;1;2;;;

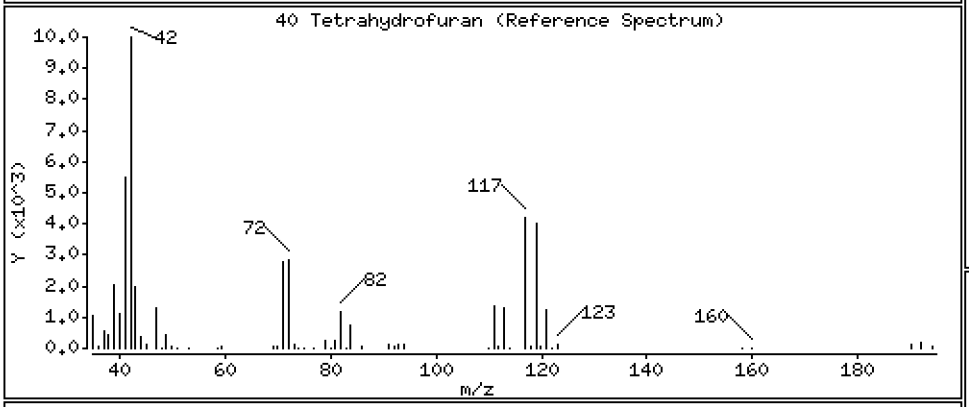
Purge Volume: 5.0 Operator: CJG

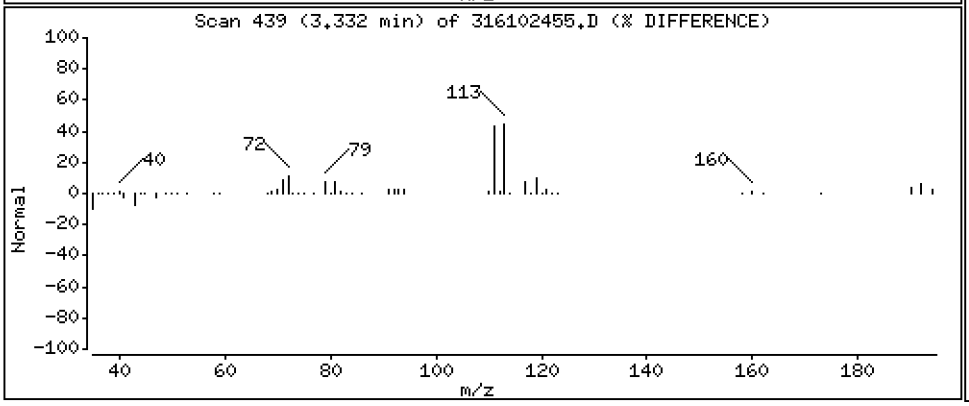
Column phase: DB-VRX Column diameter: 0.25

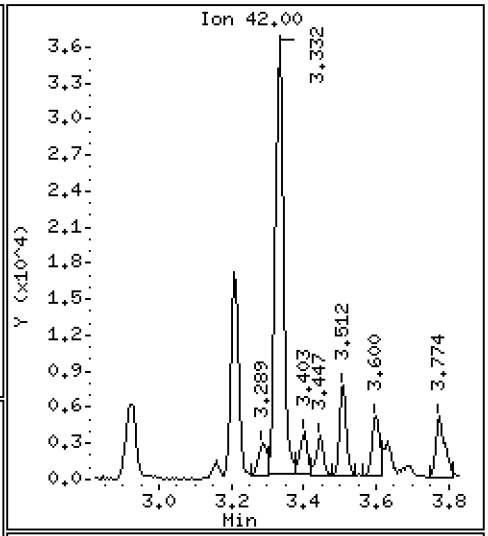
40 Tetrahydrofuran Concentration: 24.4943 ug/L

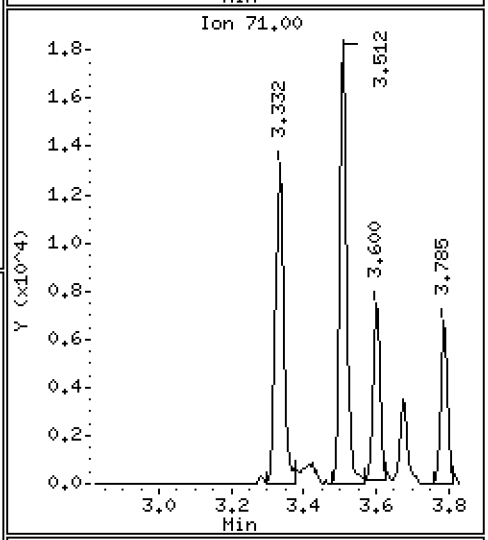


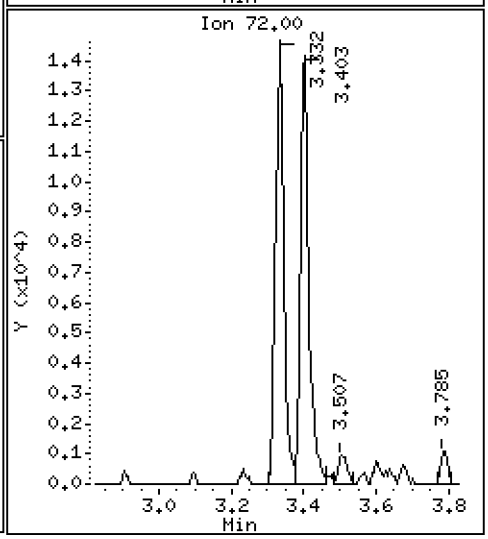












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 49

Date : 25-OCT-2016 00:08

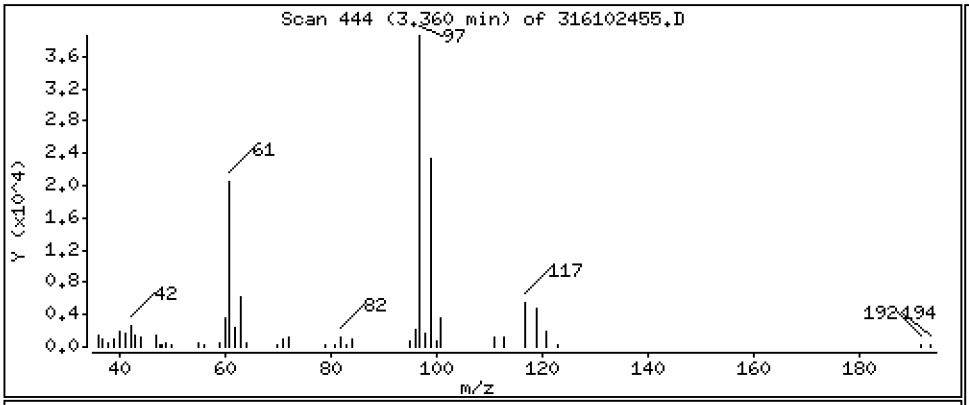
Client ID: Instrument: ms03.i

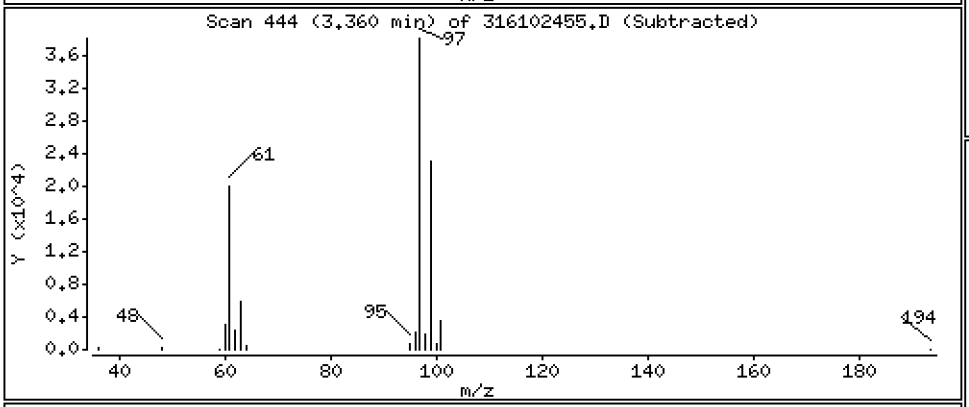
Sample Info: 1235;;1;1;2;;;

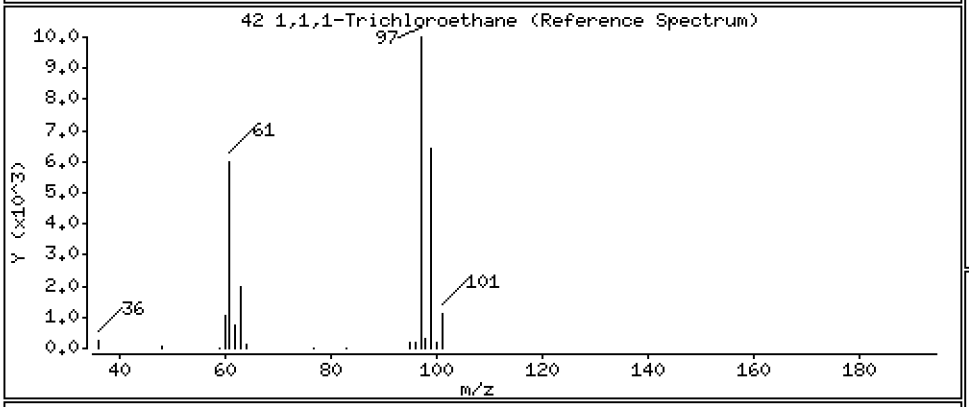
Purge Volume: 5.0 Operator: CJG

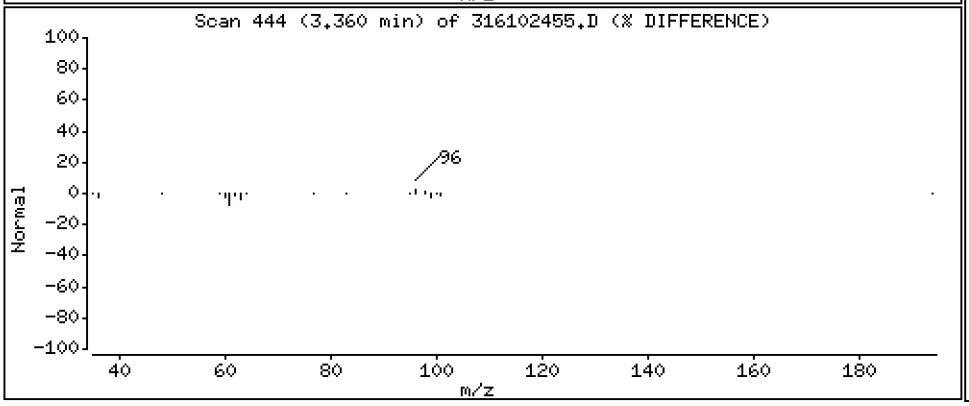
Column phase: DB-VRX Column diameter: 0.25

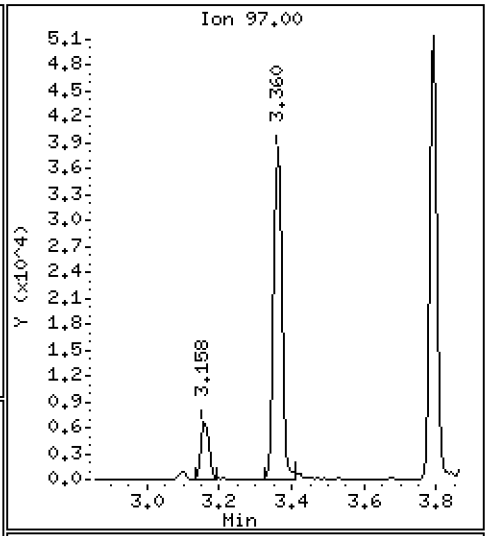
42 1,1,1-Trichloroethane Concentration: 5.16873 ug/L

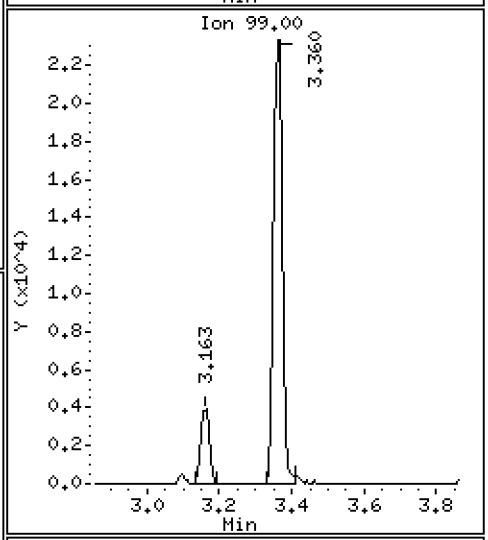


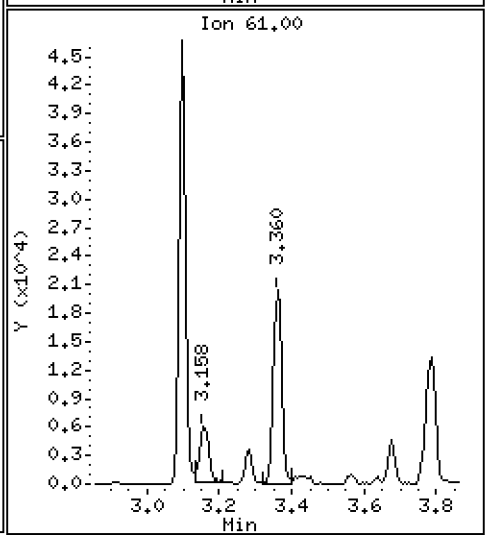












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 50

Date : 25-OCT-2016 00:08

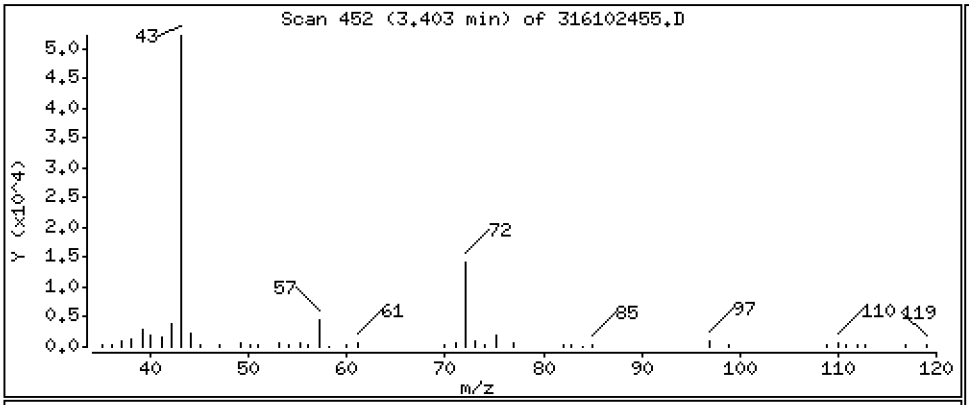
Client ID: Instrument: ms03.i

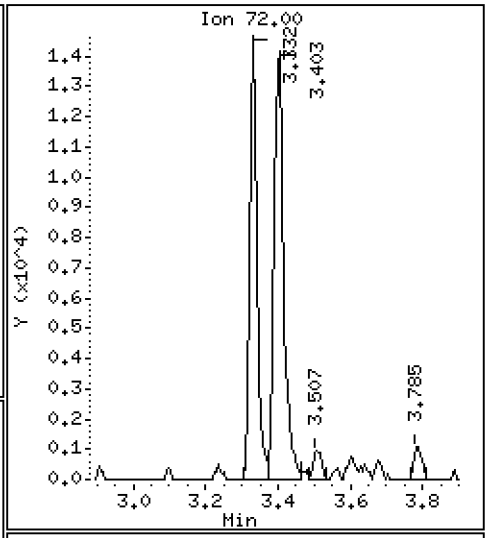
Sample Info: 1235;;1;1;2;;;

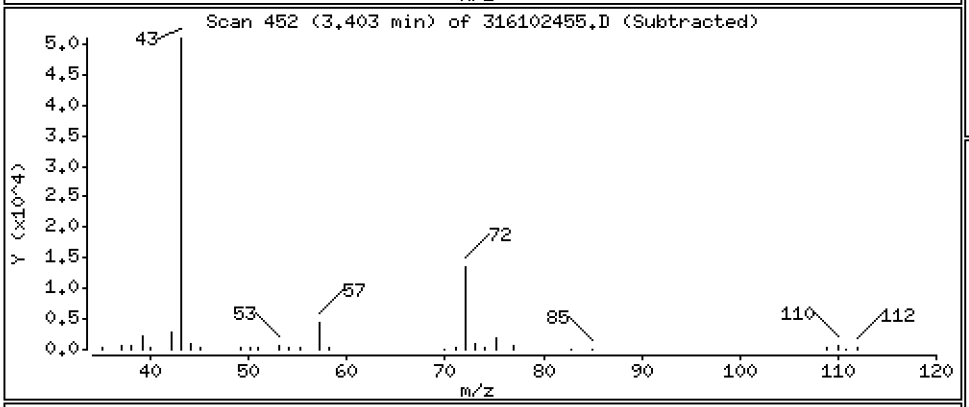
Purge Volume: 5.0 Operator: CJG

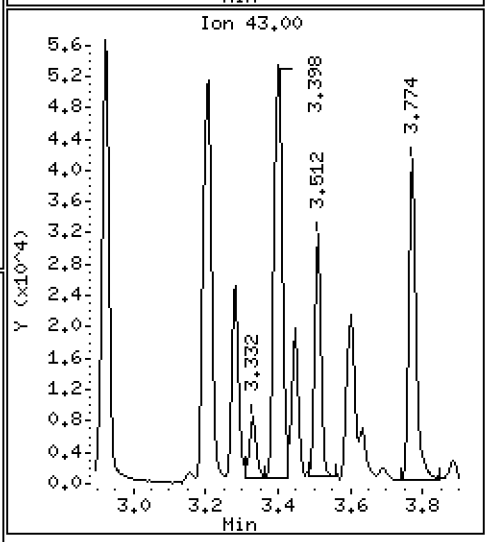
Column phase: DB-VRX Column diameter: 0.25

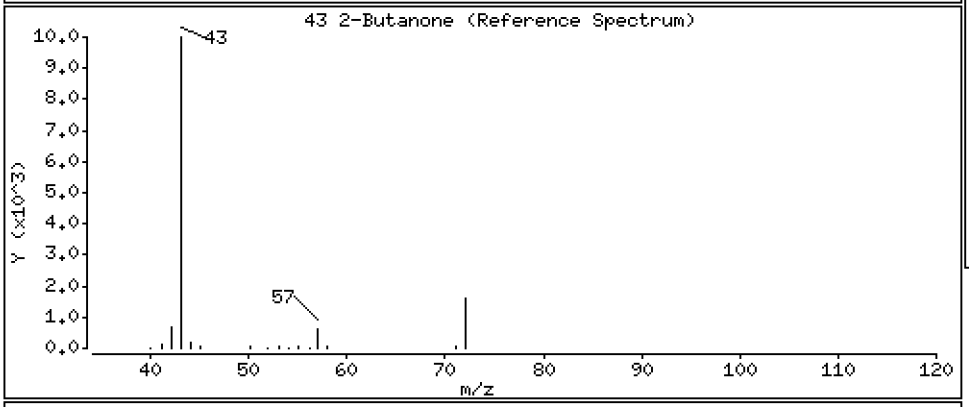
43 2-Butanone Concentration: 26.6274 ug/L

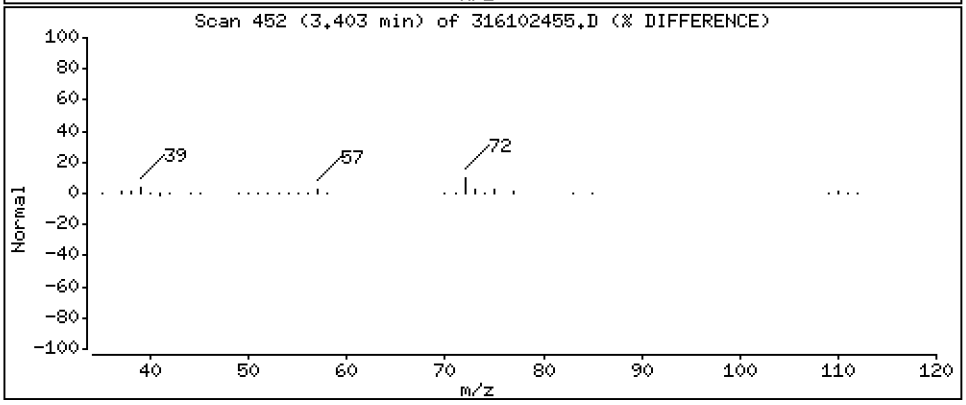












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 51

Date : 25-OCT-2016 00:08

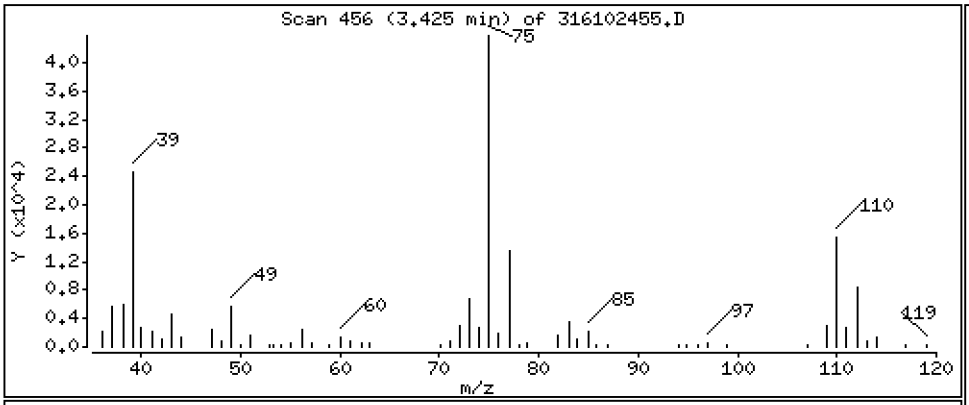
Client ID: Instrument: ms03.i

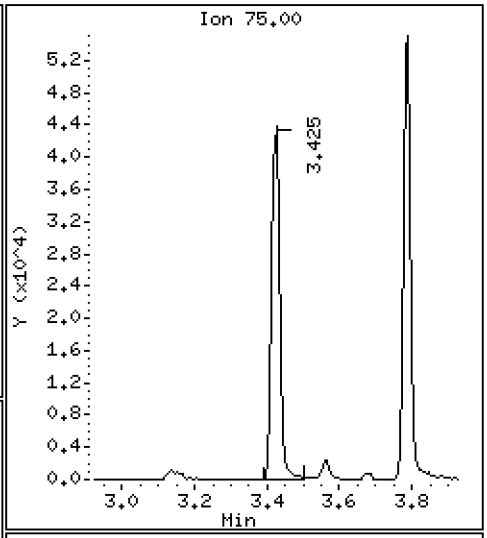
Sample Info: 1235;;1;1;2;;;

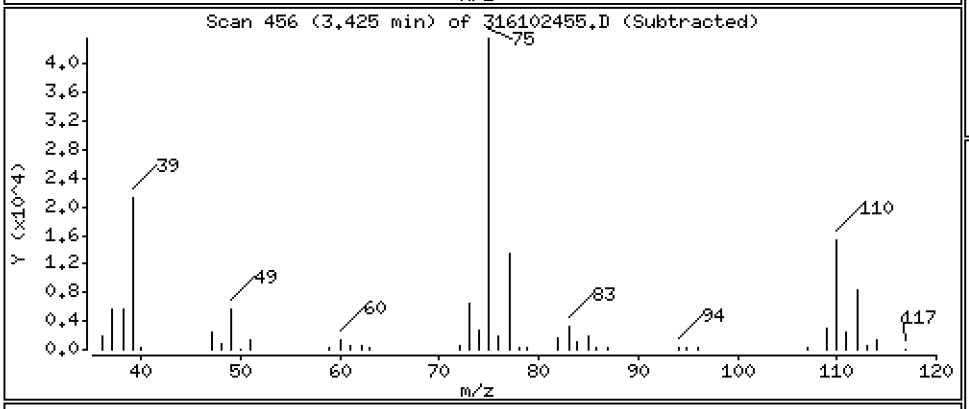
Purge Volume: 5.0 Operator: CJG

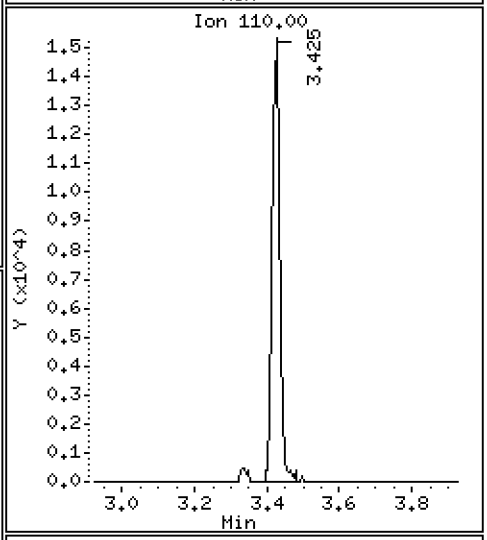
Column phase: DB-VRX Column diameter: 0.25

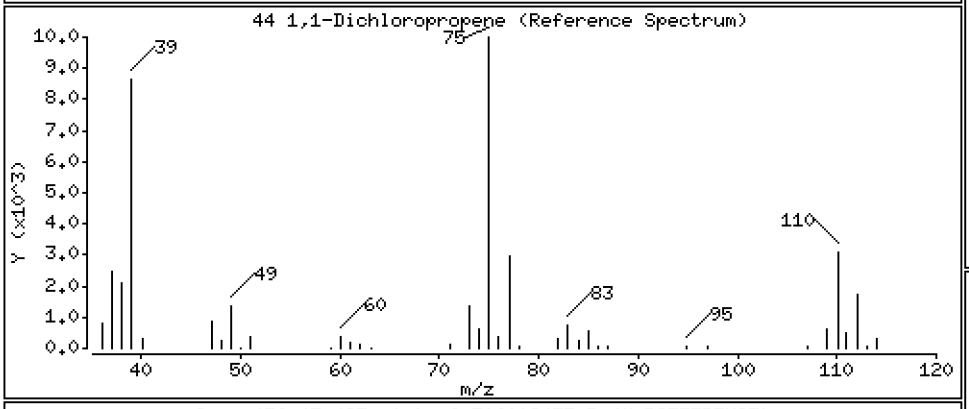
44 1,1-Dichloropropene Concentration: 5.64694 ug/L

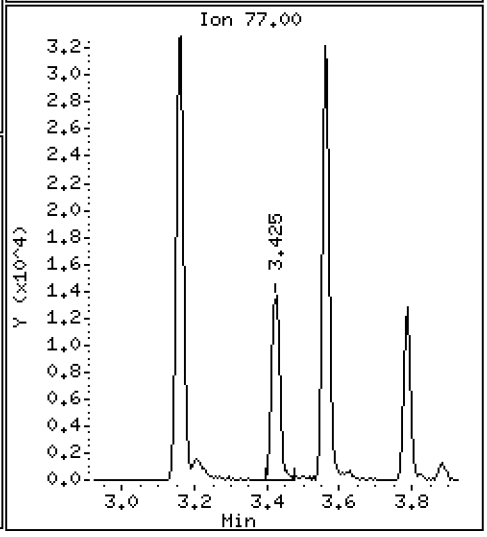


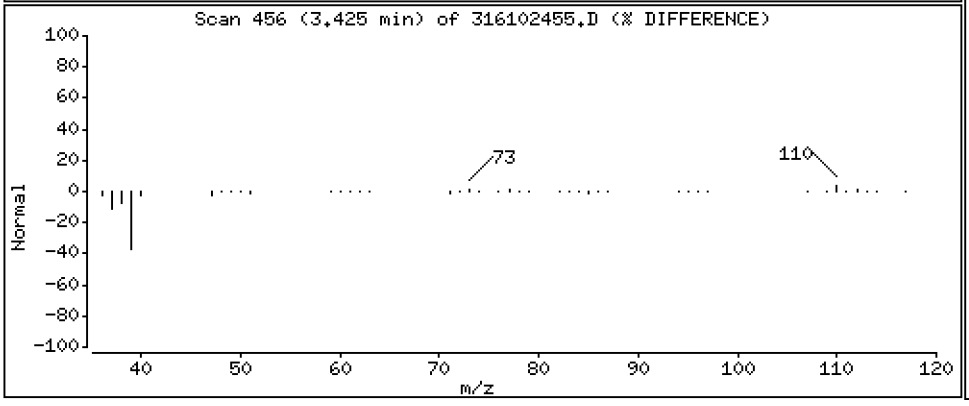












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 52

Date : 25-OCT-2016 00:08

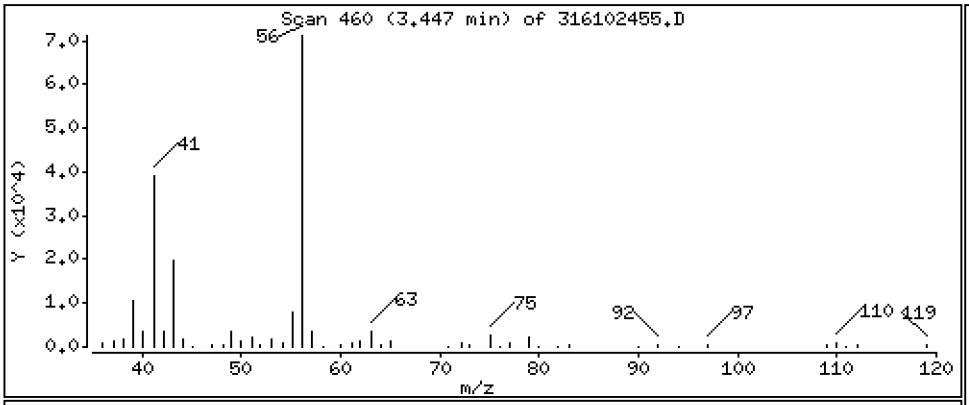
Client ID: Instrument: ms03.i

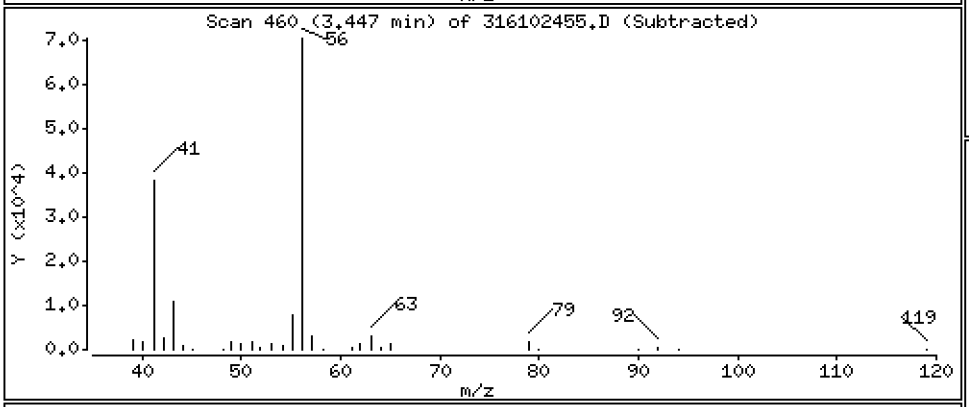
Sample Info: 1235;;1;1;2;;;

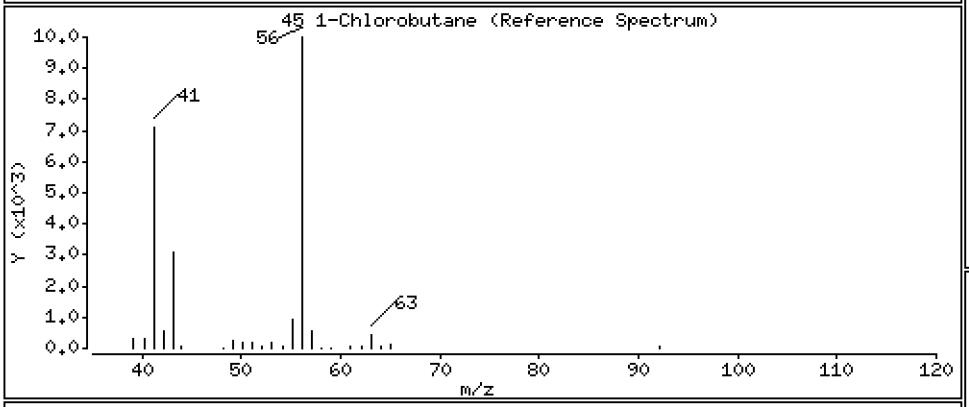
Purge Volume: 5.0 Operator: CJG

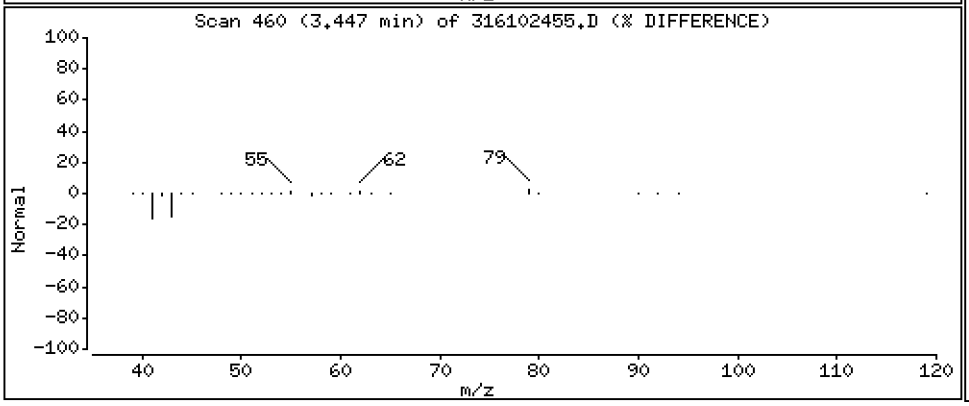
Column phase: DB-VRX Column diameter: 0.25

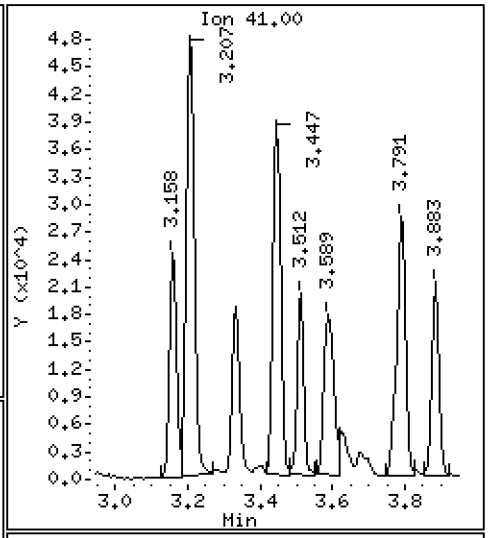
45 1-Chlorobutane Concentration: 5.84834 ug/L

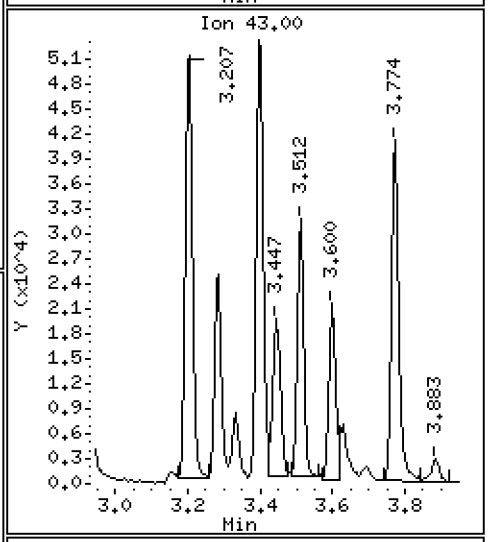


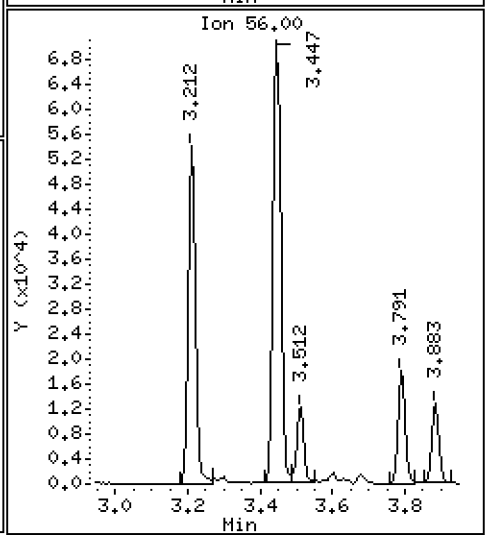












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 53

Date : 25-OCT-2016 00:08

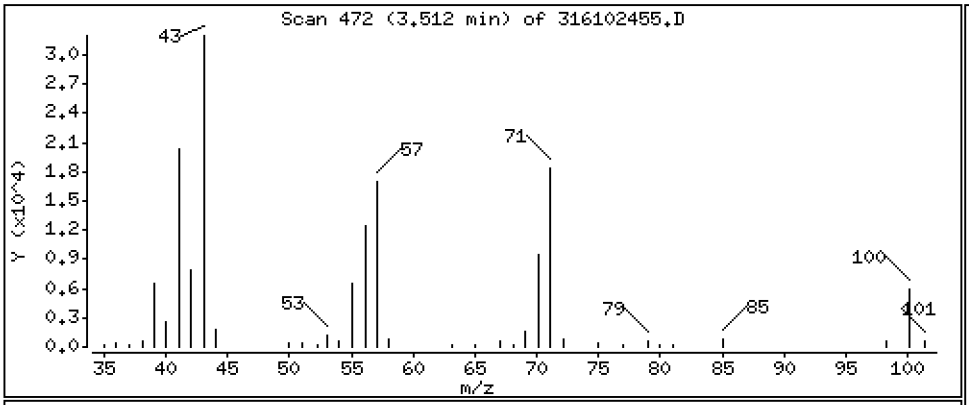
Client ID: Instrument: ms03.i

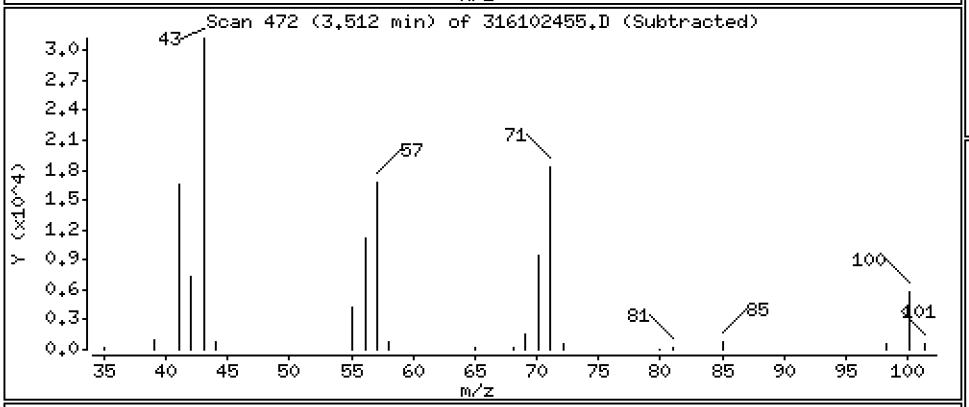
Sample Info: 1235;;1;1;2;;;

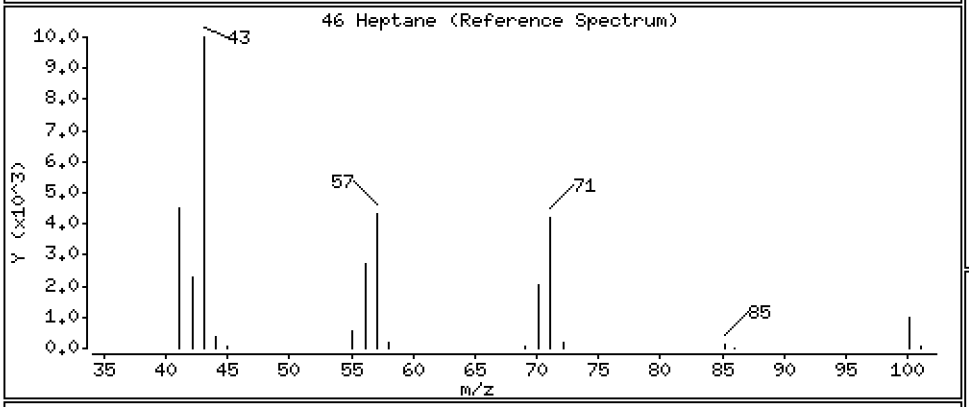
Purge Volume: 5.0 Operator: CJG

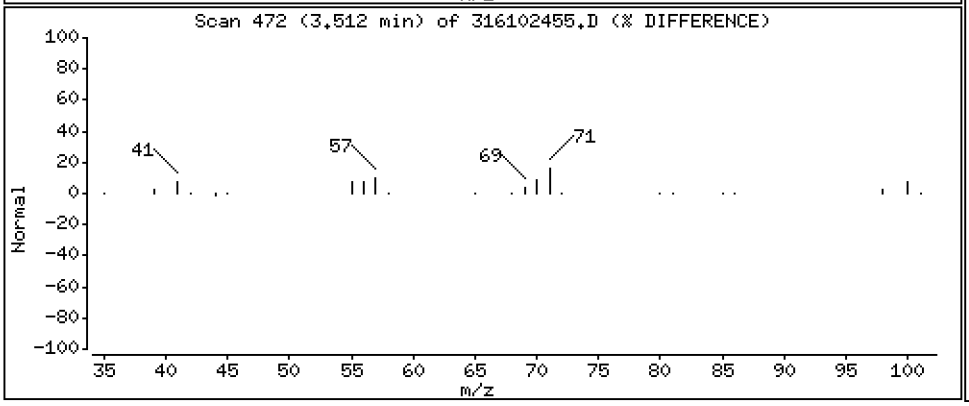
Column phase: DB-VRX Column diameter: 0.25

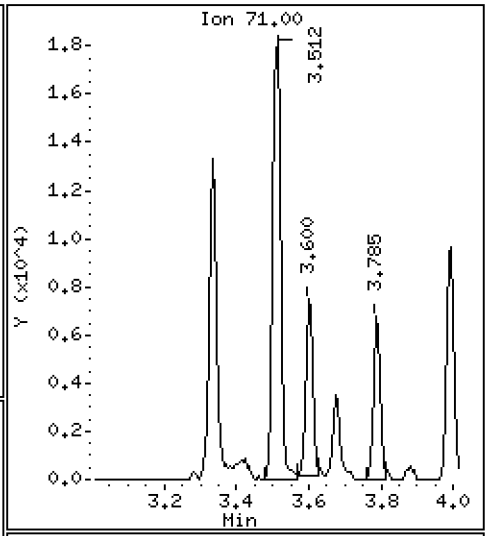
46 Heptane Concentration: 4.89757 ug/L

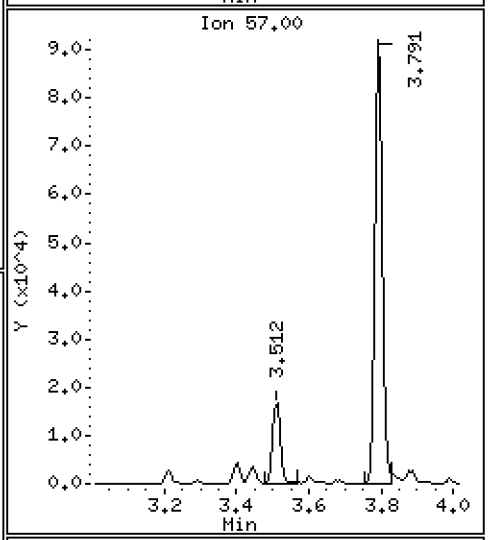


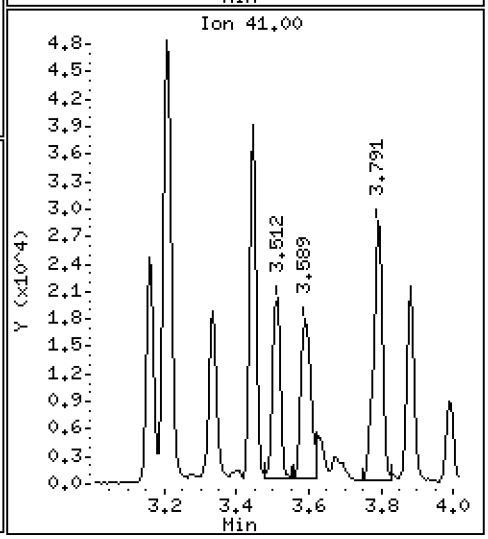












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 54

Date : 25-OCT-2016 00:08

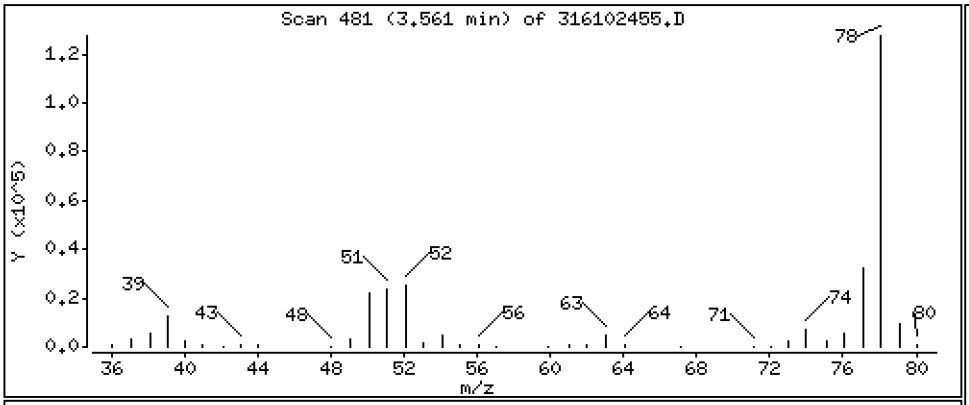
Client ID: Instrument: ms03.i

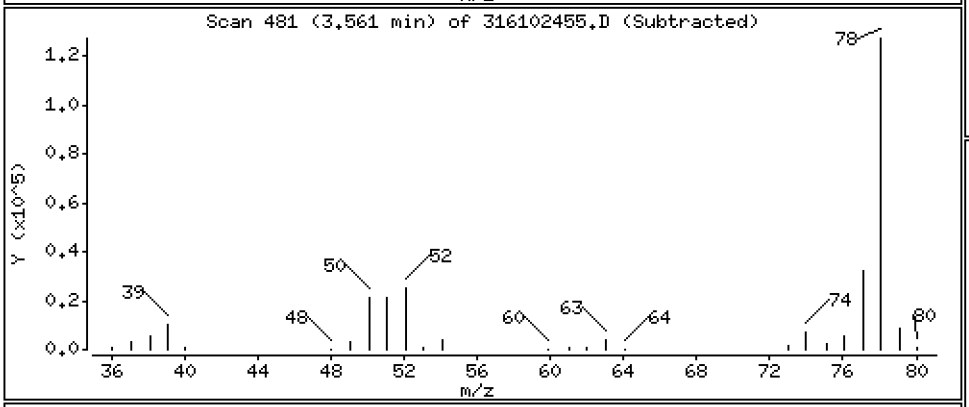
Sample Info: 1235;;1;1;2;;;

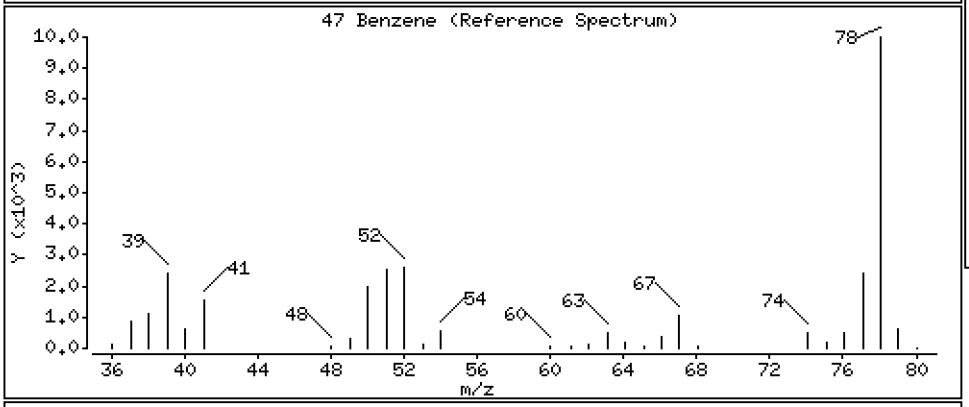
Purge Volume: 5.0 Operator: CJG

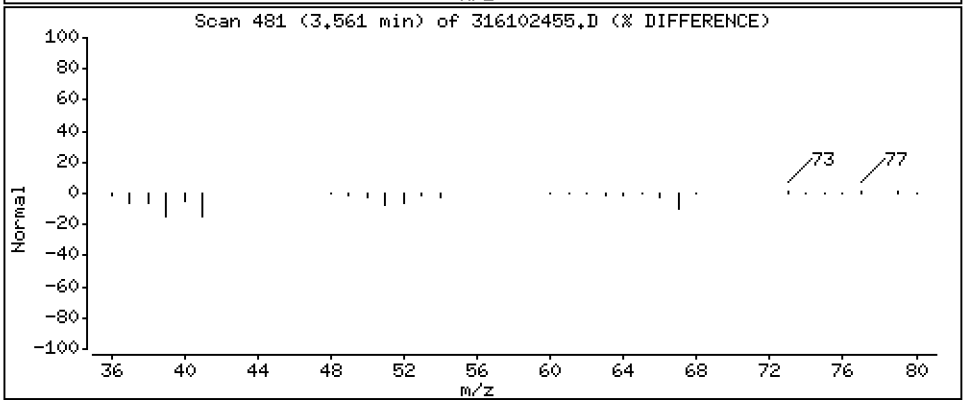
Column phase: DB-VRX Column diameter: 0.25

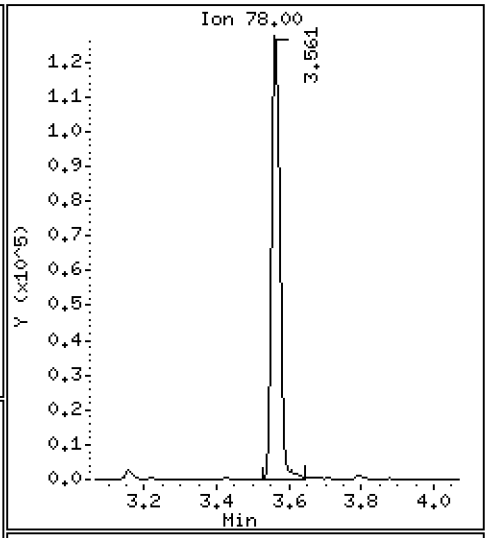
47 Benzene Concentration: 5.42687 ug/L

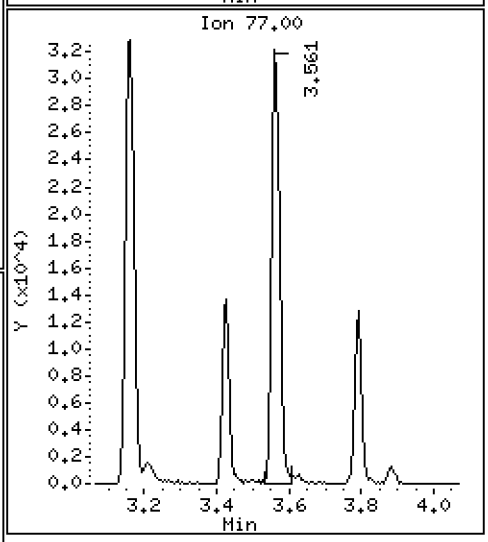












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 55

Date : 25-OCT-2016 00:08

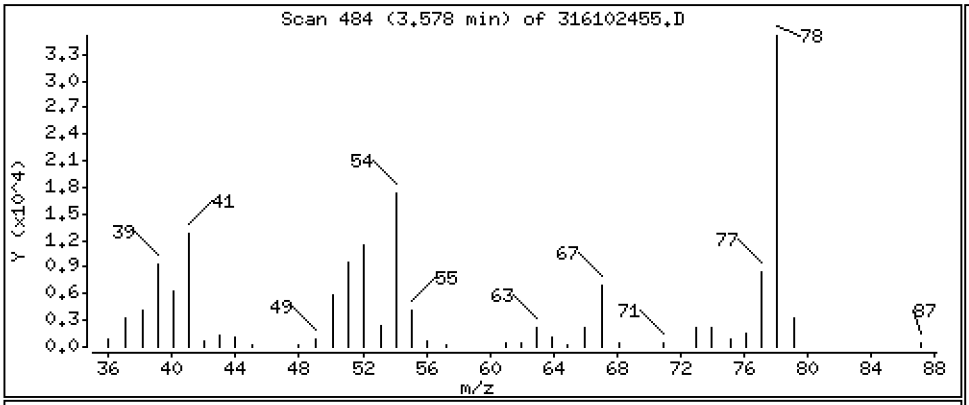
Client ID: Instrument: ms03.i

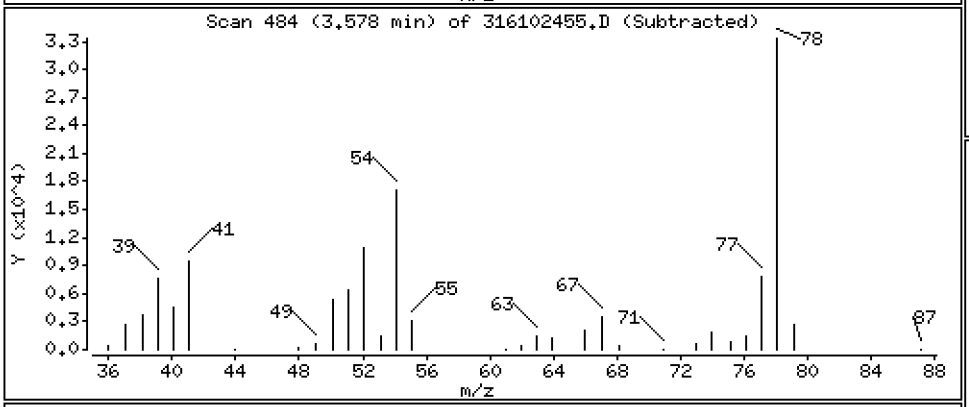
Sample Info: 1235;;1;1;2;;;

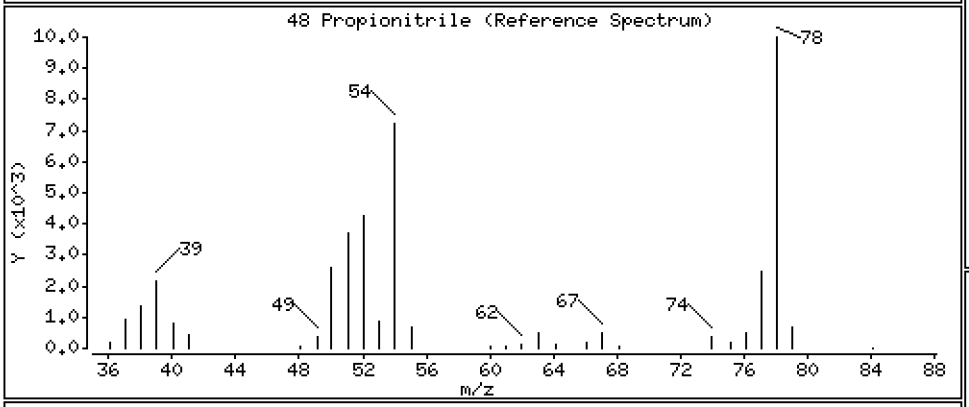
Purge Volume: 5.0 Operator: CJG

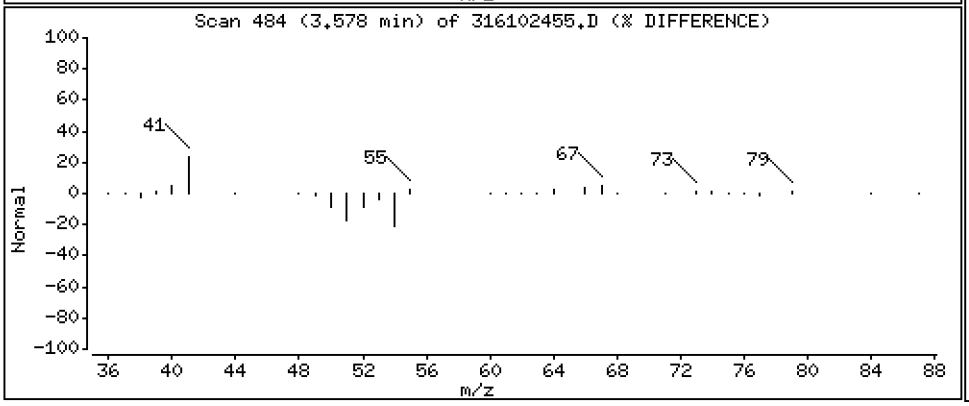
Column phase: DB-VRX Column diameter: 0.25

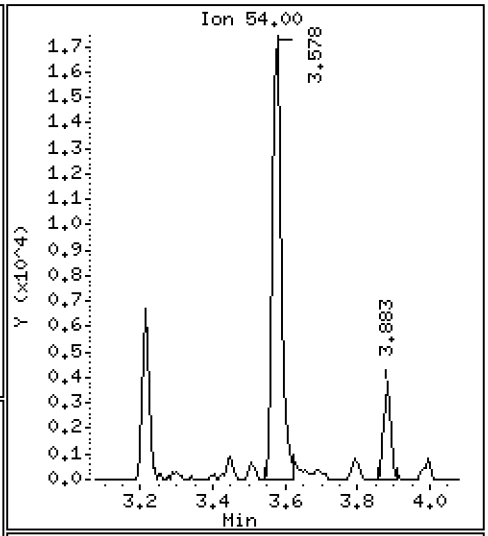
48 Propionitrile Concentration: 25.4875 ug/L

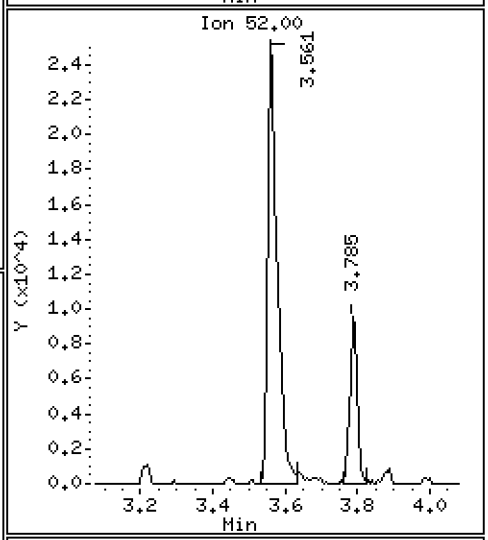


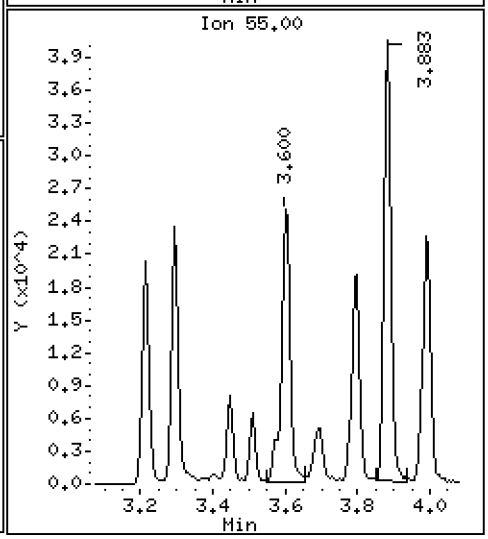












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 56

Date : 25-OCT-2016 00:08

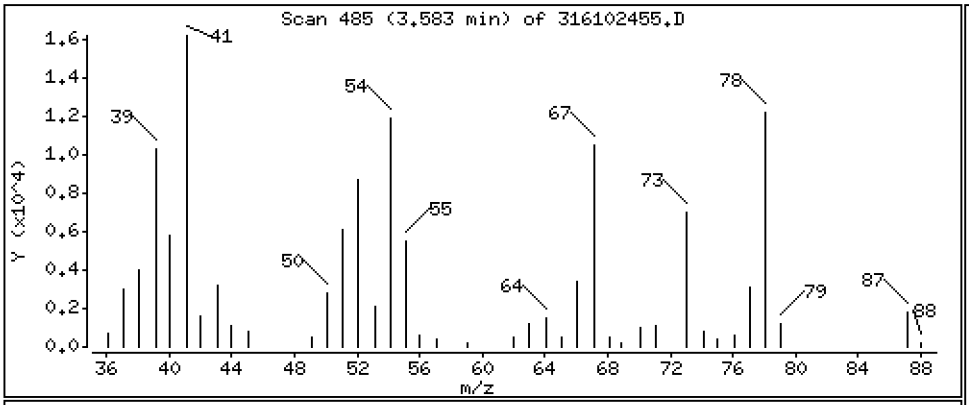
Client ID: Instrument: ms03.i

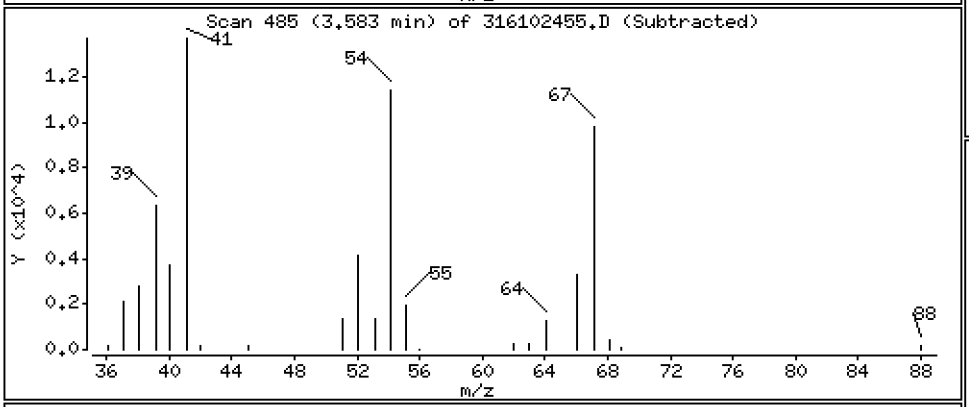
Sample Info: 1235;;1;1;2;;;

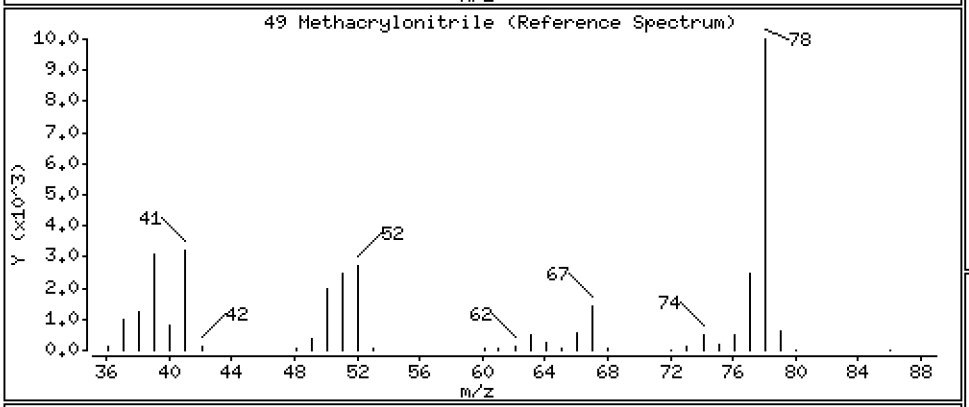
Purge Volume: 5.0 Operator: CJG

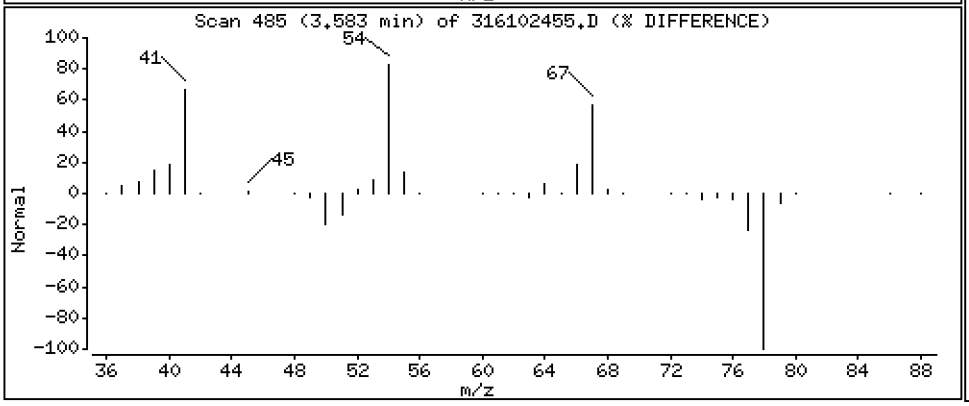
Column phase: DB-VRX Column diameter: 0.25

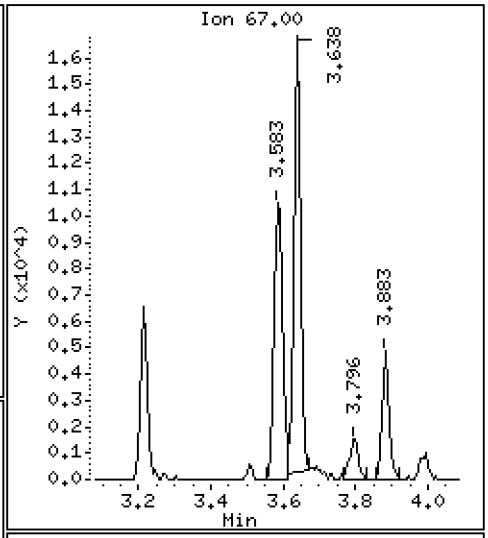
49 Methacrylonitrile Concentration: 5.03587 ug/L

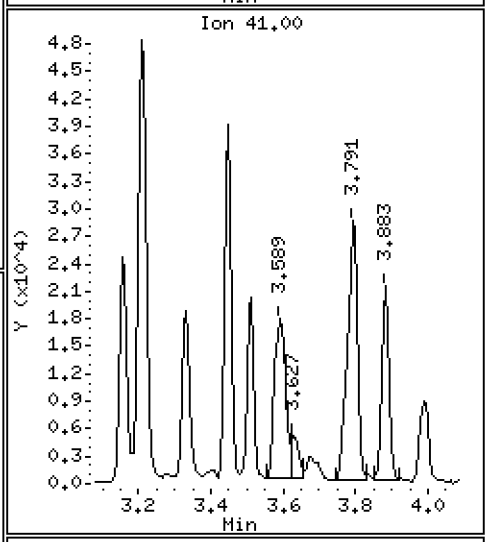


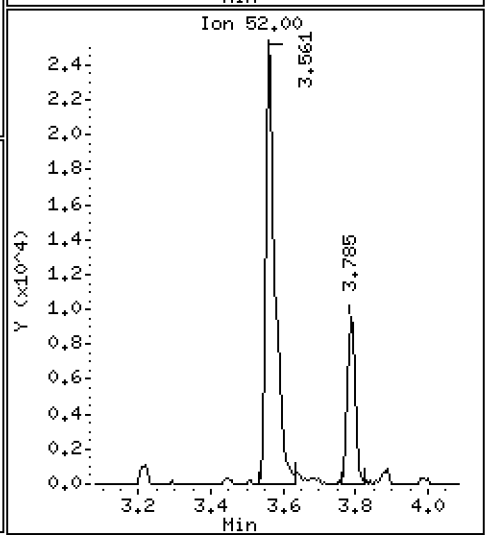












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 57

Date : 25-OCT-2016 00:08

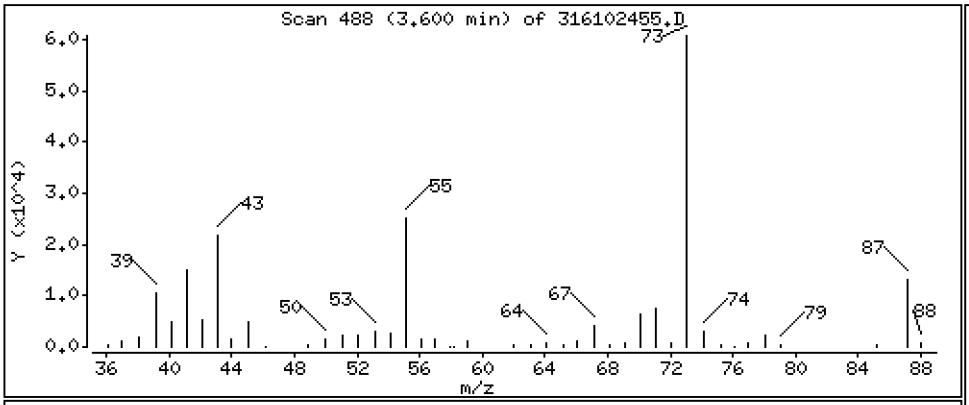
Client ID: Instrument: ms03.i

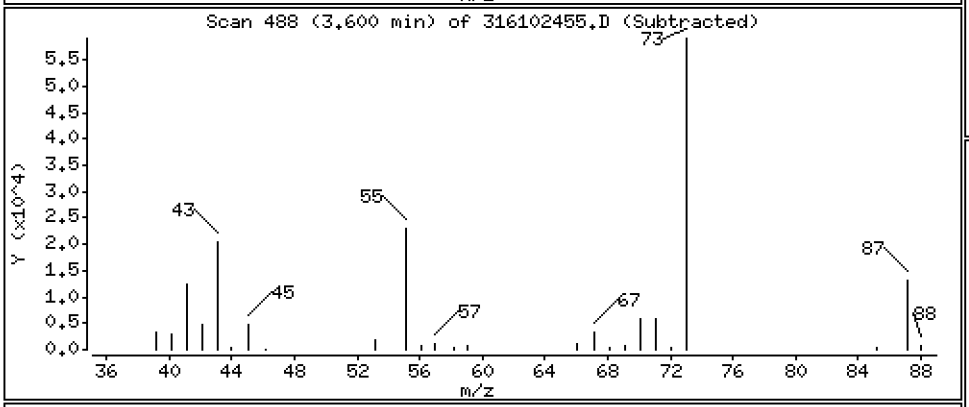
Sample Info: 1235;;1;1;2;;;

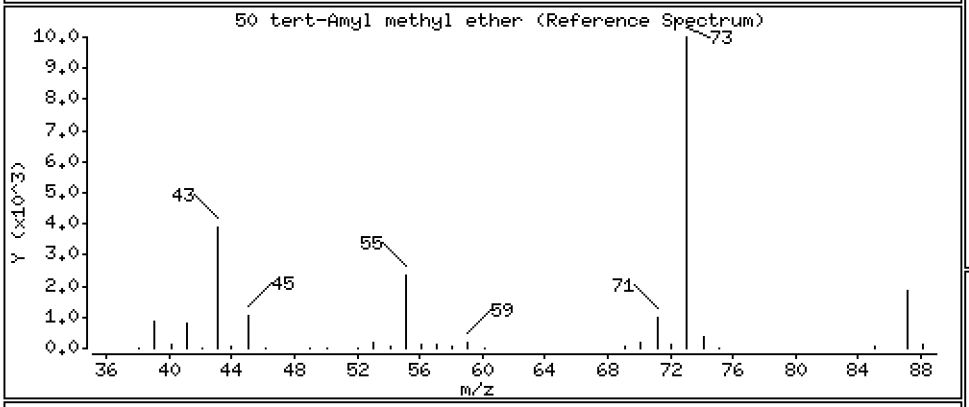
Purge Volume: 5.0 Operator: CJG

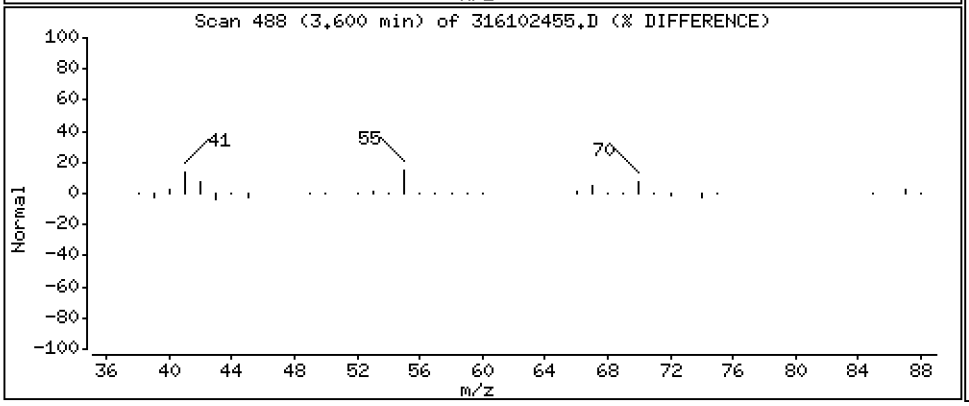
Column phase: DB-VRX Column diameter: 0.25

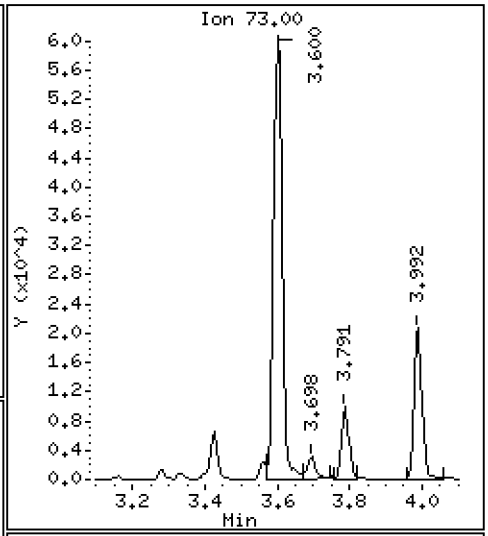
50 tert-Amyl methyl ether Concentration: 4.87002 ug/L

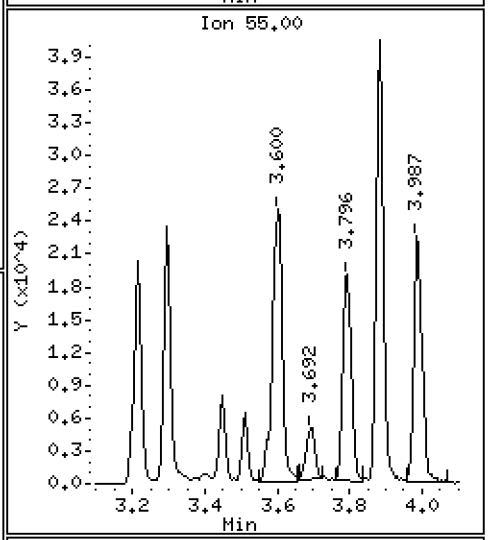


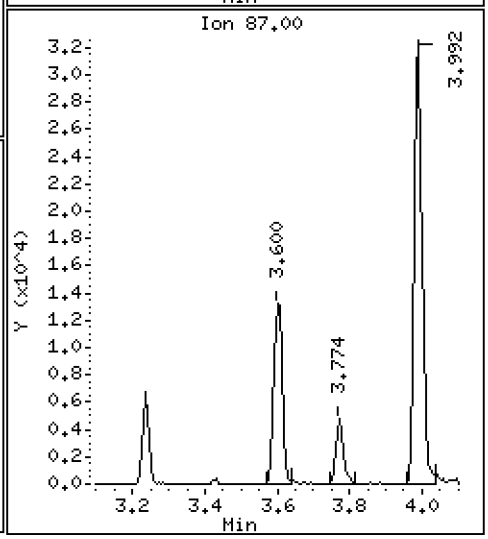












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 58

Date : 25-OCT-2016 00:08

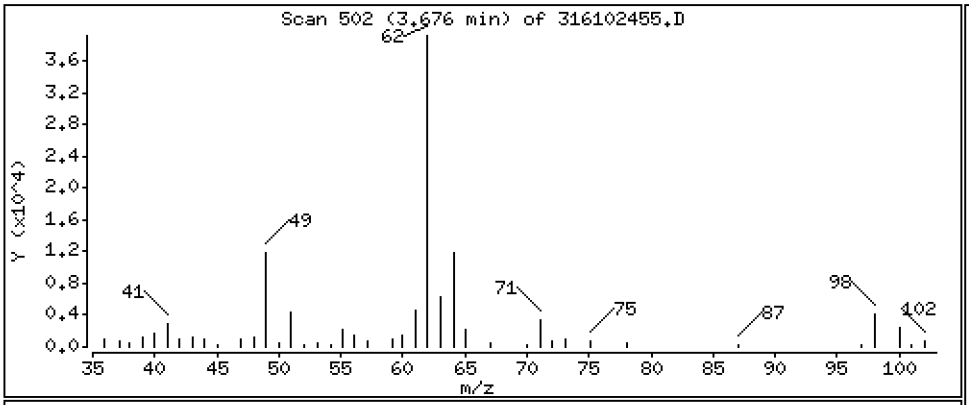
Client ID: Instrument: ms03.i

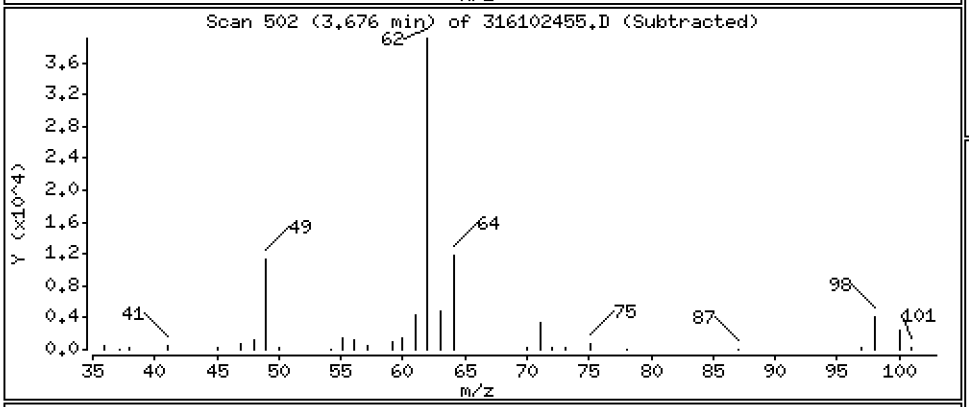
Sample Info: 1235;;1;1;2;;;

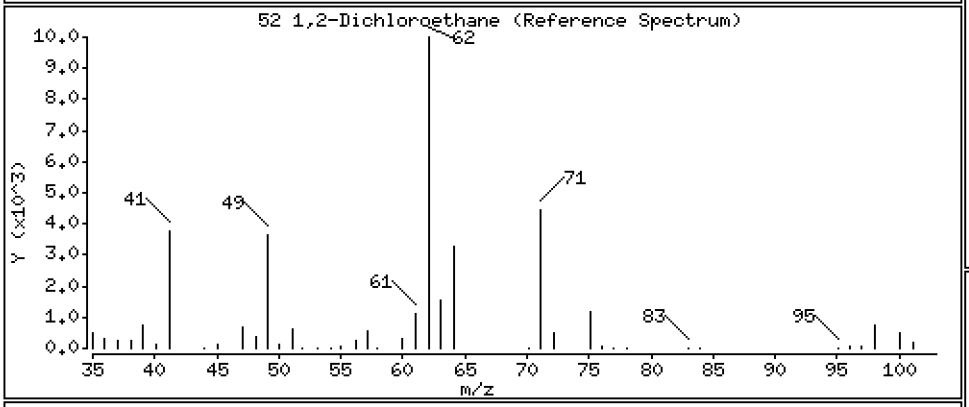
Purge Volume: 5.0 Operator: CJG

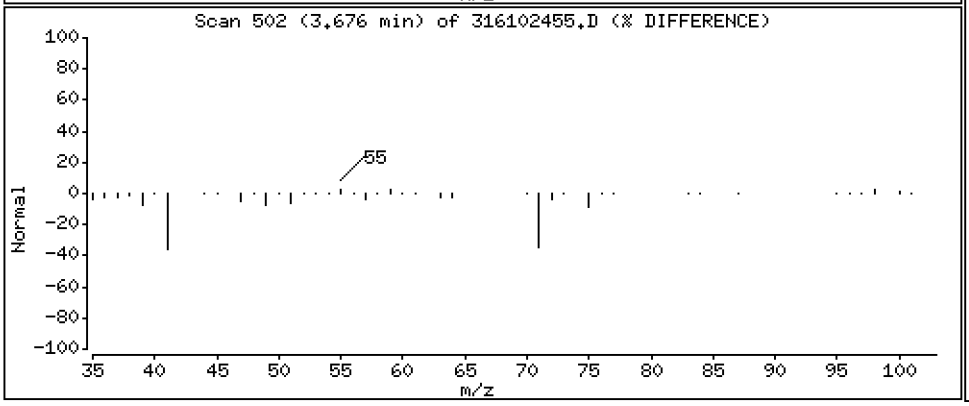
Column phase: DB-VRX Column diameter: 0.25

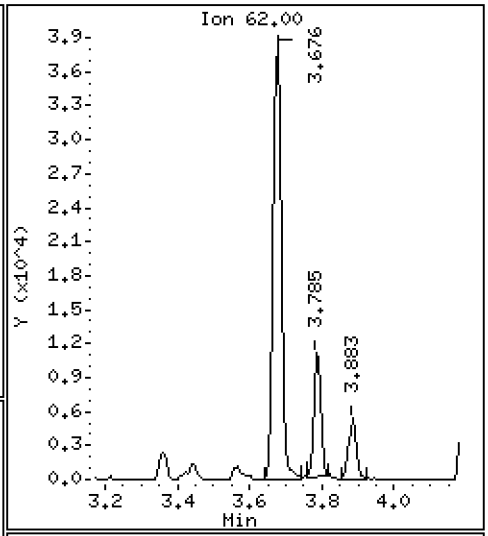
52 1,2-Dichloroethane Concentration: 5.28320 ug/L

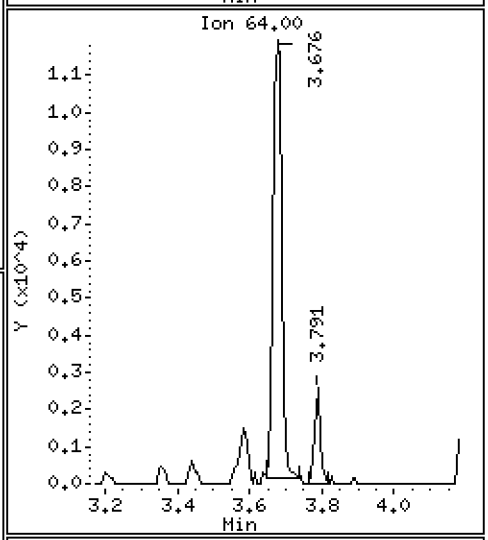


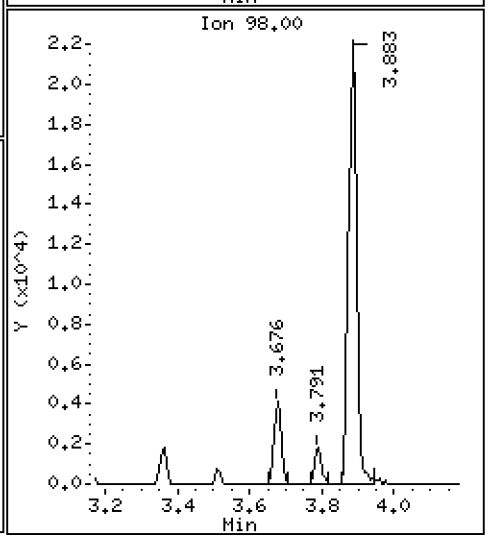












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 59

Date : 25-OCT-2016 00:08

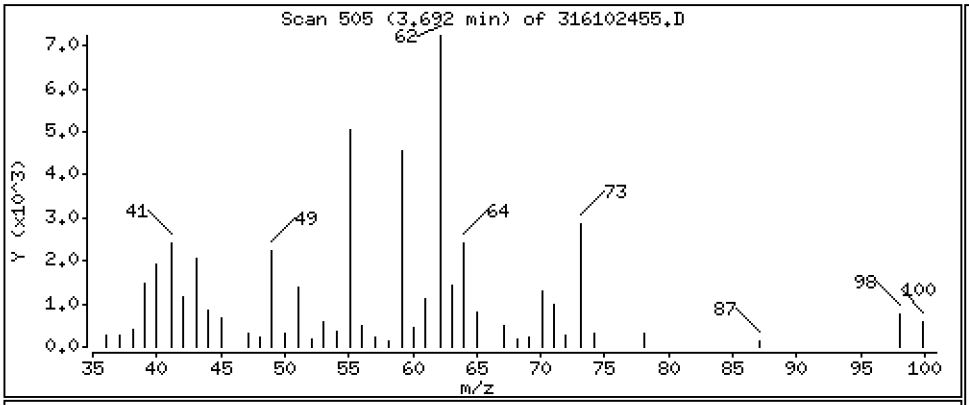
Client ID: Instrument: ms03.i

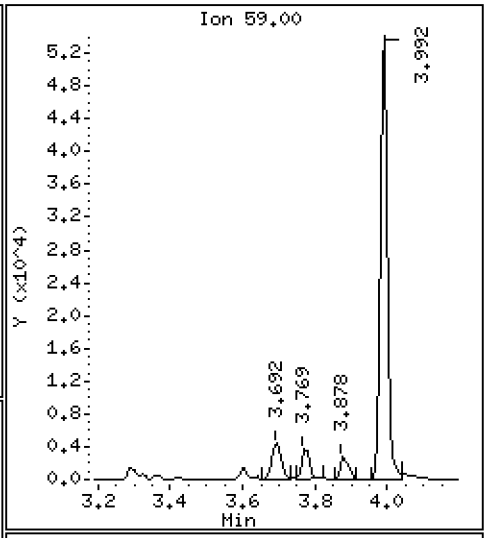
Sample Info: 1235;;1;1;2;;;

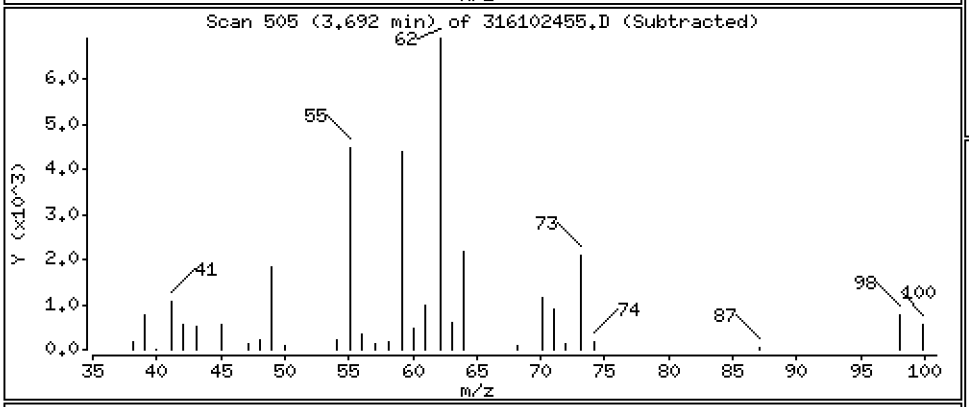
Purge Volume: 5.0 Operator: CJG

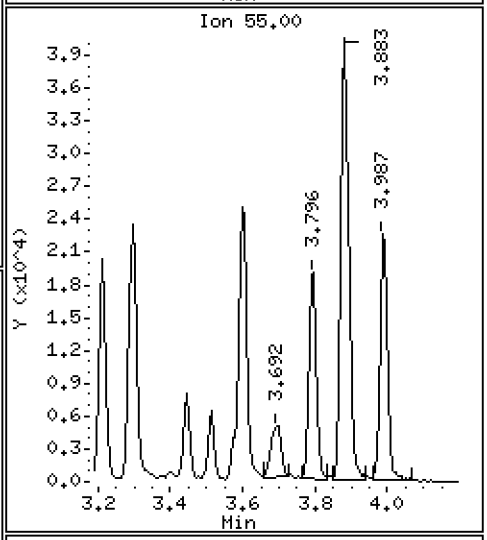
Column phase: DB-VRX Column diameter: 0.25

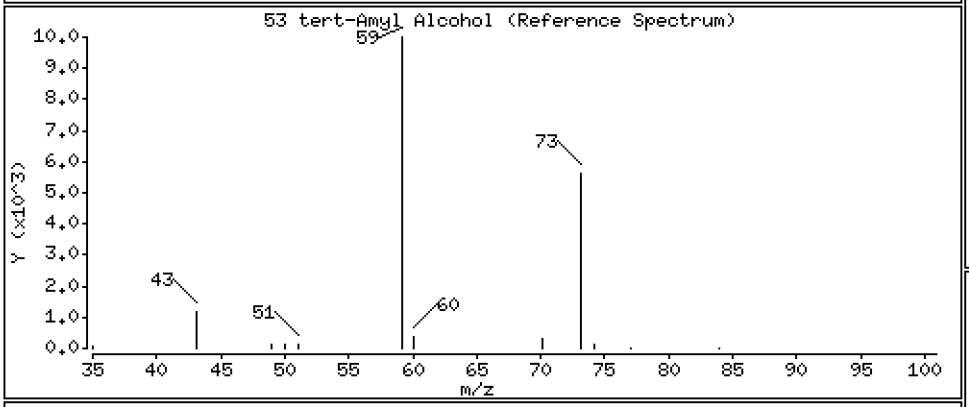
53 tert-Amyl Alcohol Concentration: 21.7843 ug/L

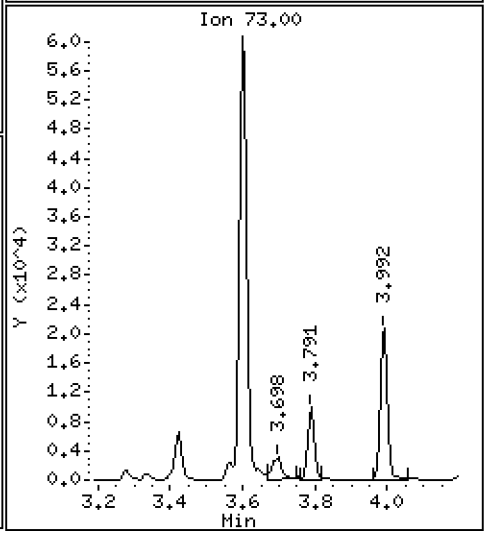


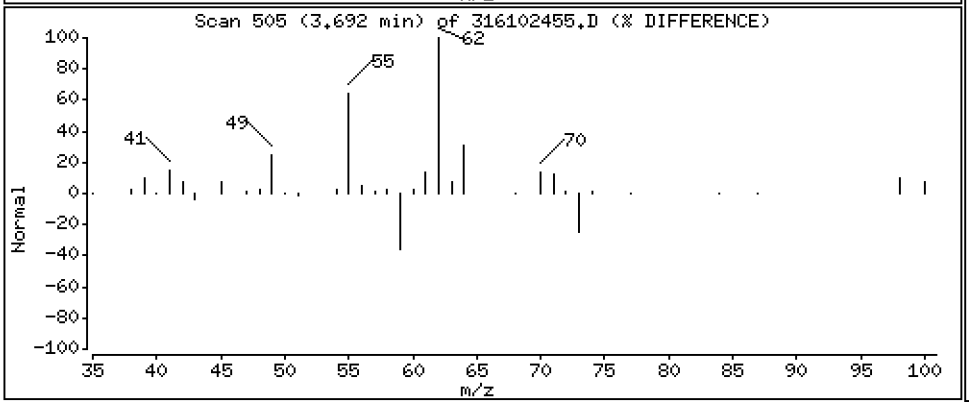












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 60

Date : 25-OCT-2016 00:08

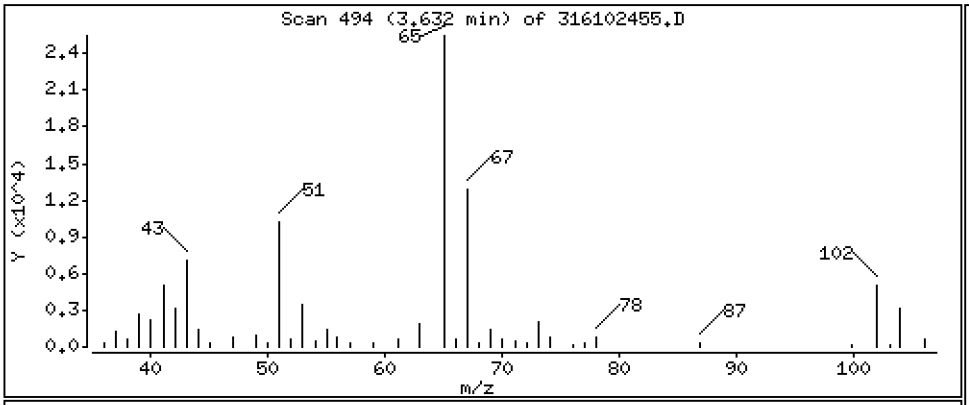
Client ID: Instrument: ms03.i

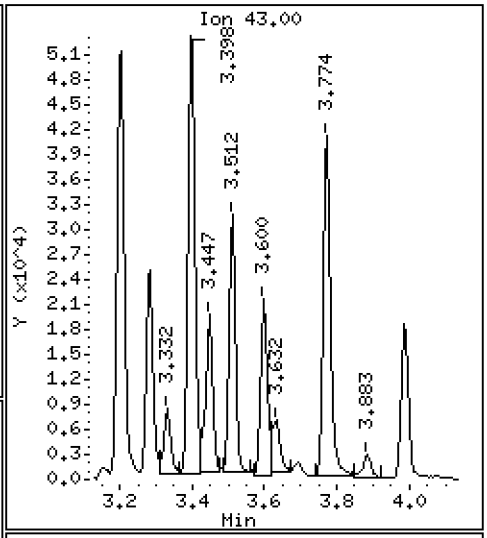
Sample Info: 1235;;1;1;2;;;

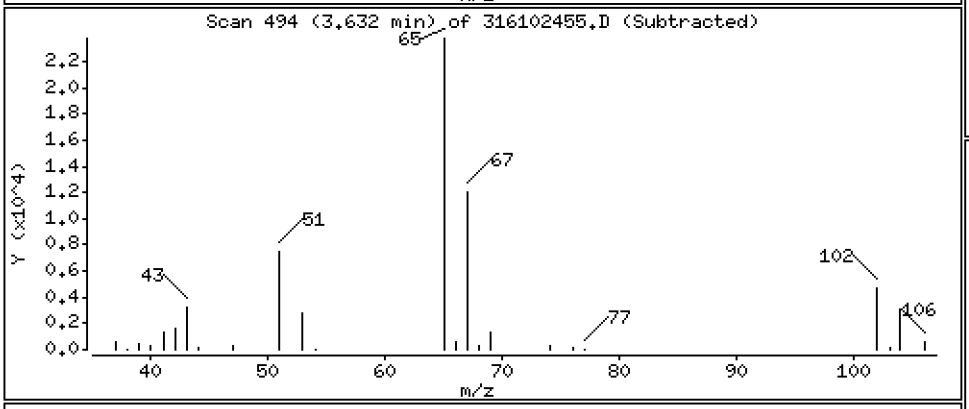
Purge Volume: 5.0 Operator: CJG

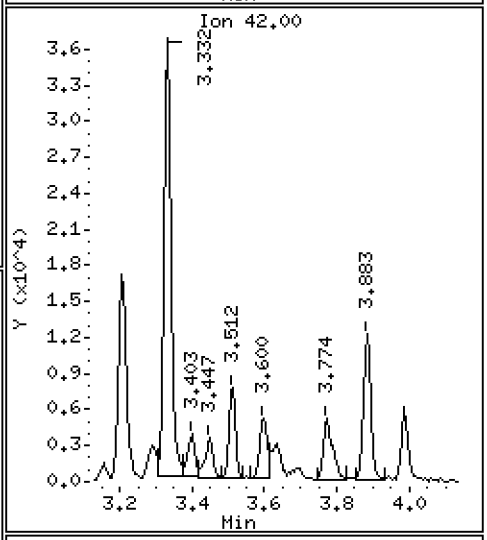
Column phase: DB-VRX Column diameter: 0.25

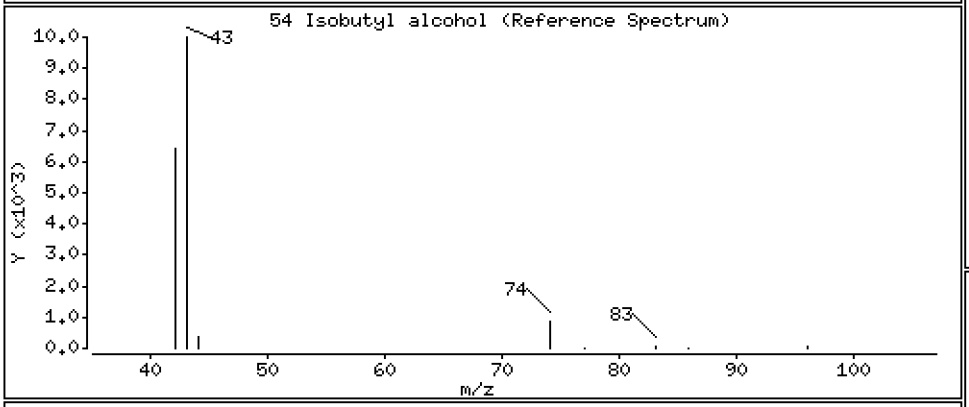
54 Isobutyl alcohol Concentration: 55.2435 ug/L

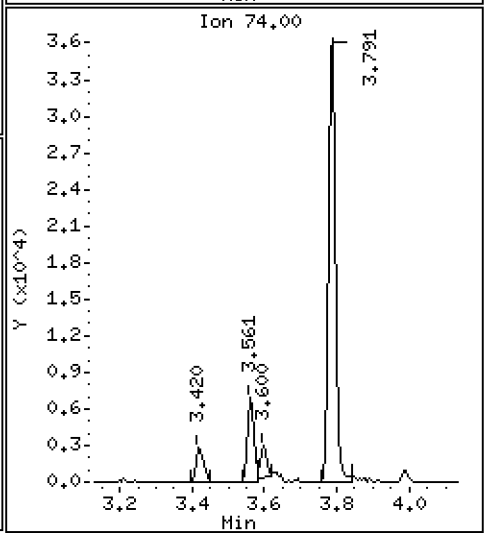


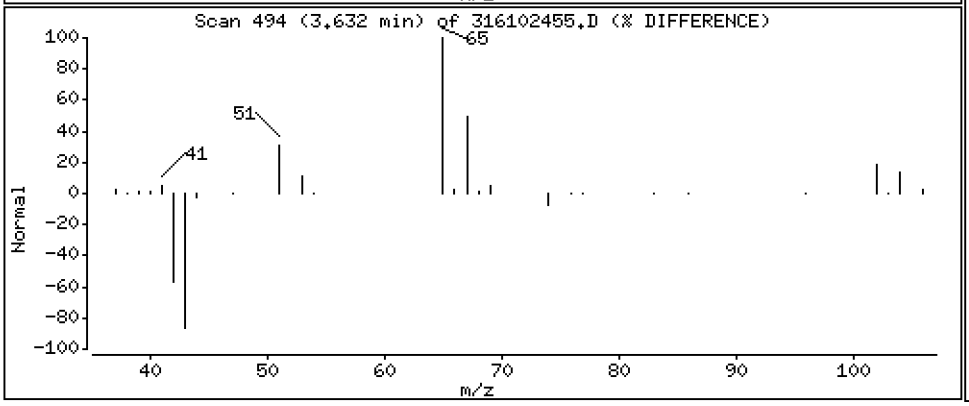












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 61

Date : 25-OCT-2016 00:08

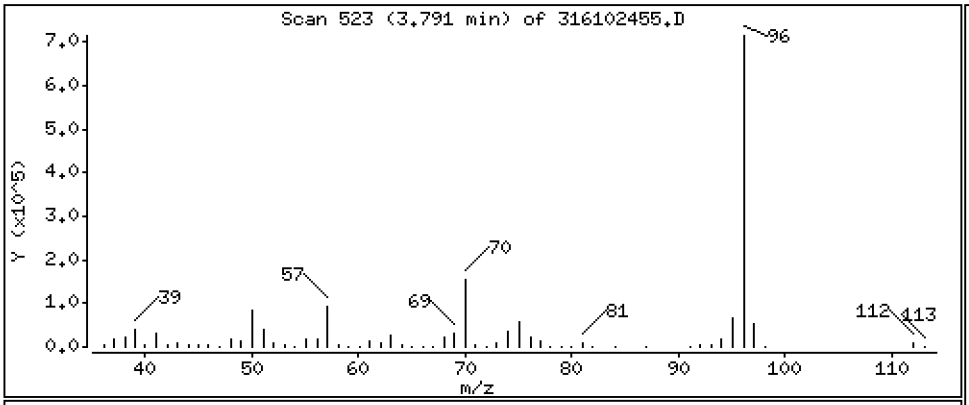
Client ID: Instrument: ms03.i

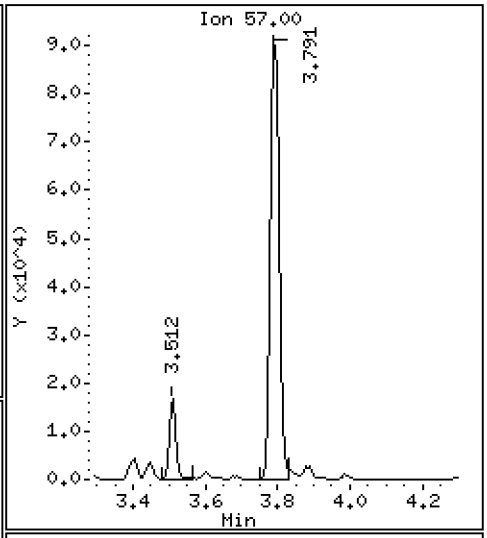
Sample Info: 1235;;1;1;2;;;

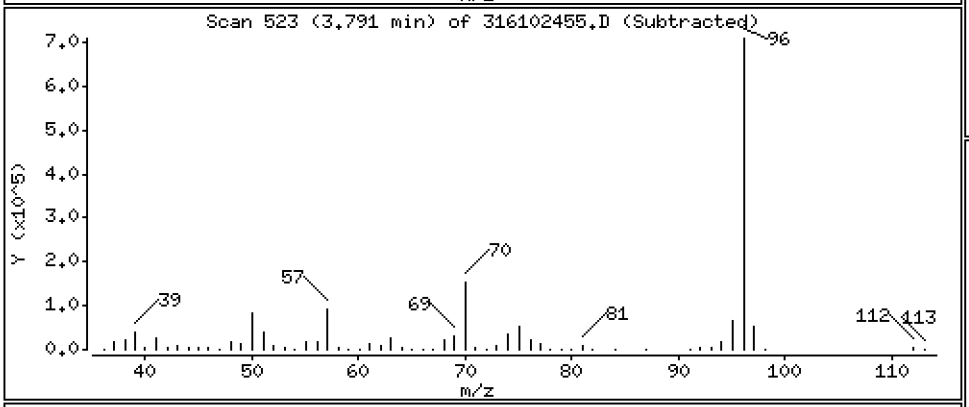
Purge Volume: 5.0 Operator: CJG

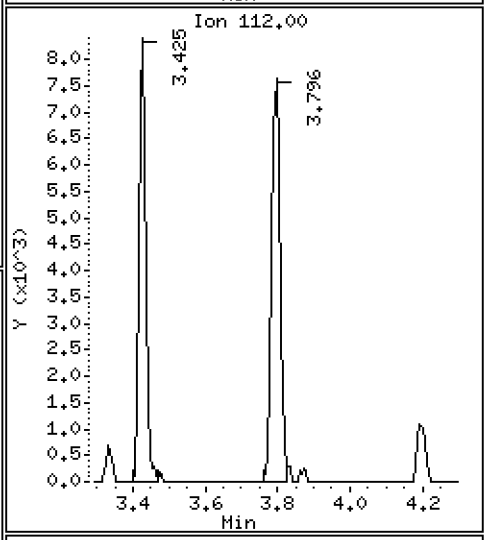
Column phase: DB-VRX Column diameter: 0.25

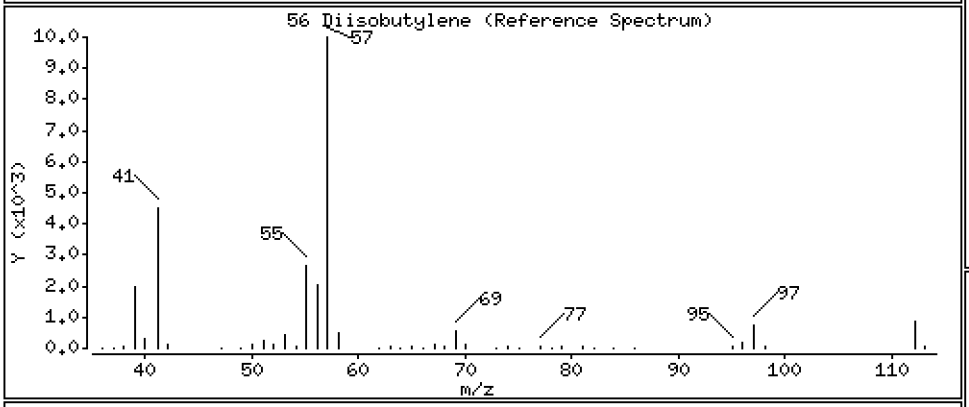
56 Diisobutylene Concentration: 6.77682 ug/L

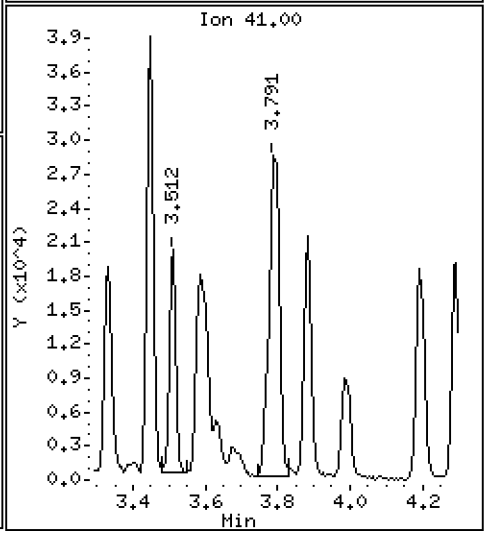


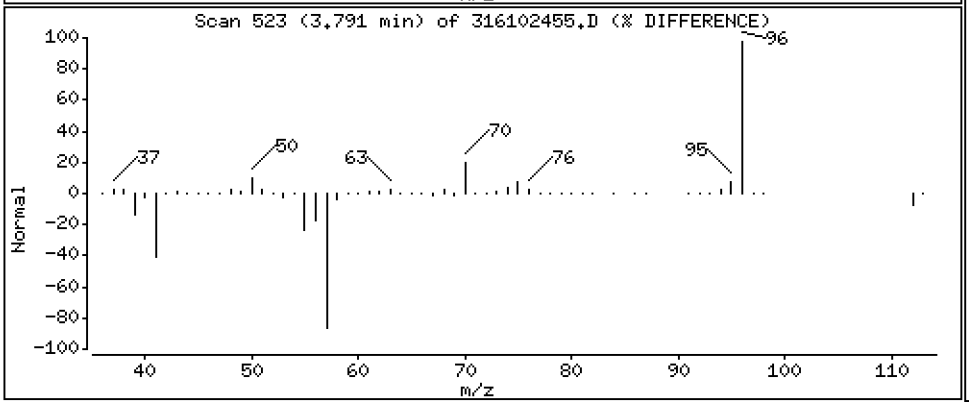












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 62

Date : 25-OCT-2016 00:08

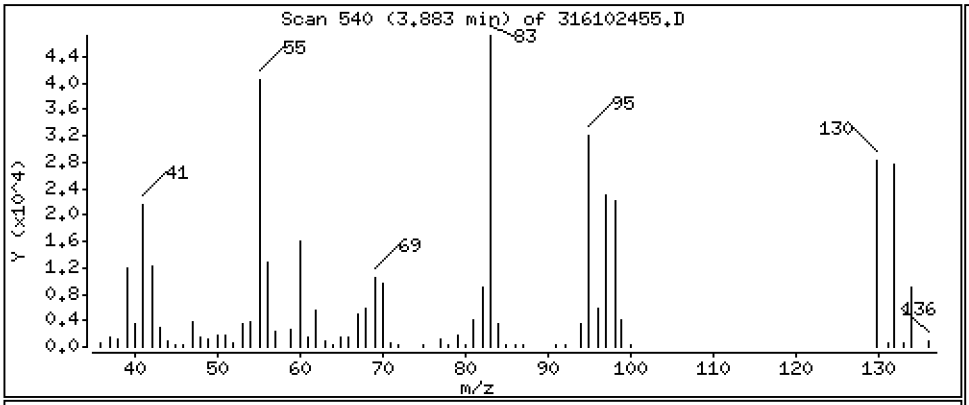
Client ID: Instrument: ms03.i

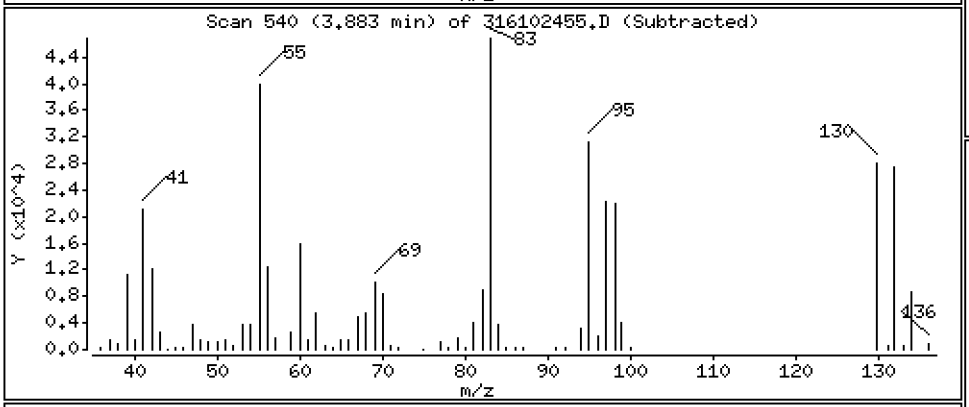
Sample Info: 1235;;1;1;2;;;

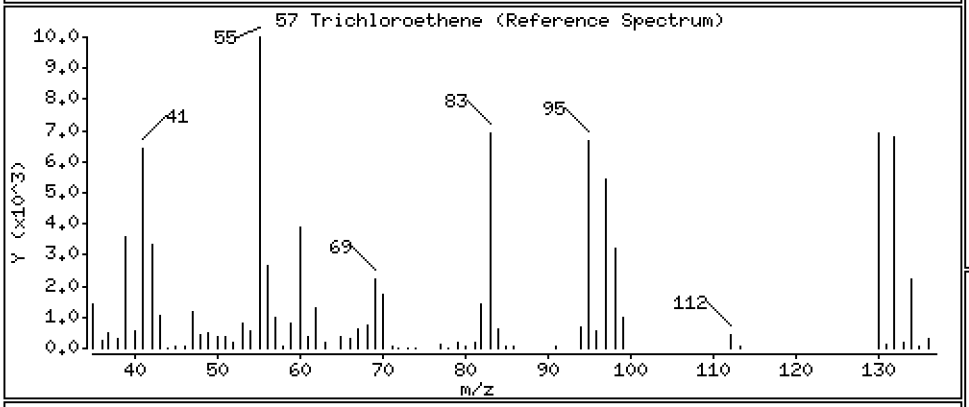
Purge Volume: 5.0 Operator: CJG

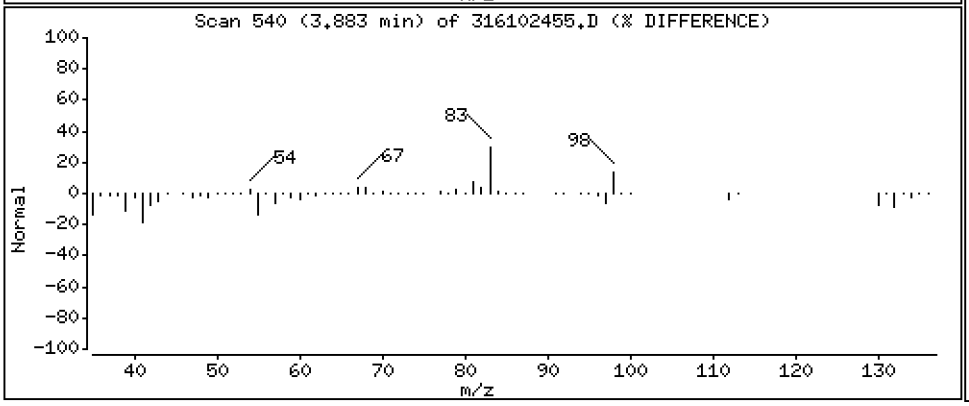
Column phase: DB-VRX Column diameter: 0.25

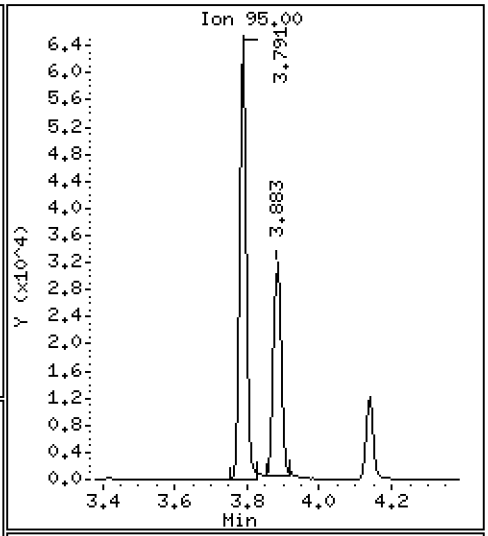
57 Trichloroethene Concentration: 5.51785 ug/L

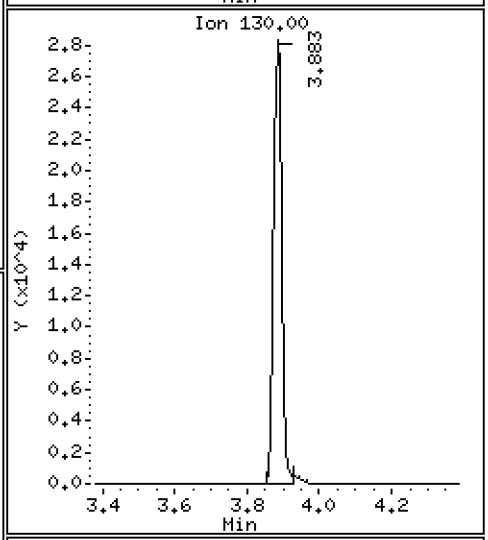


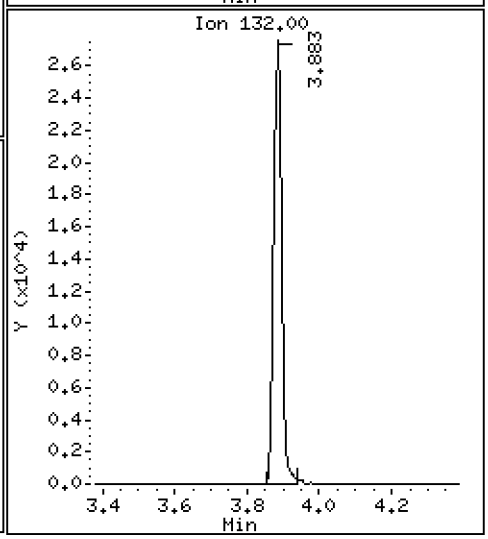












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 63

Date : 25-OCT-2016 00:08

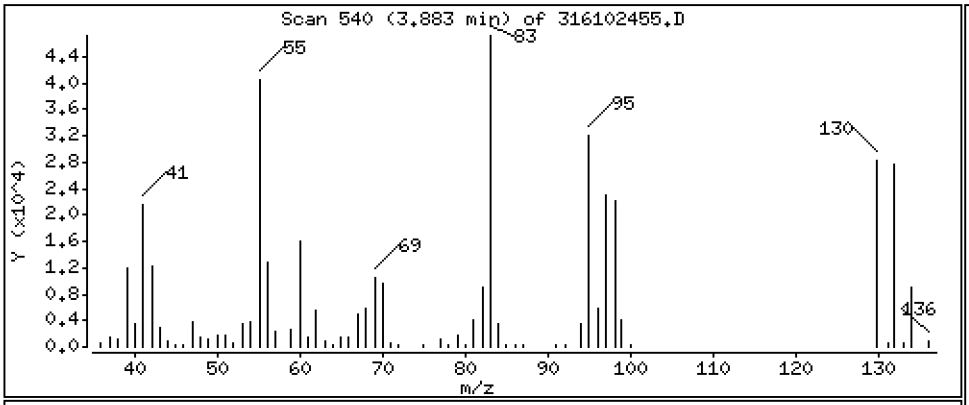
Client ID: Instrument: ms03.i

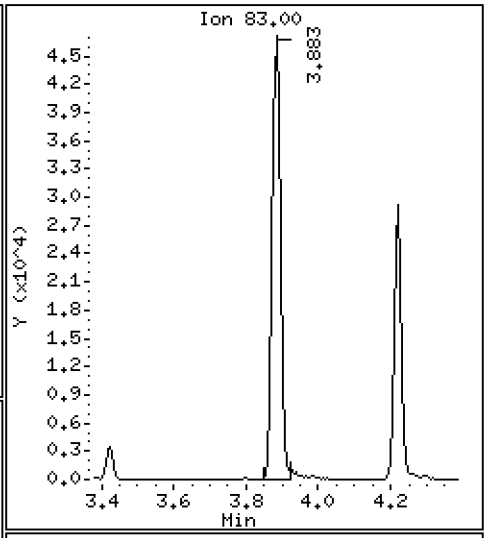
Sample Info: 1235;;1;1;2;;;

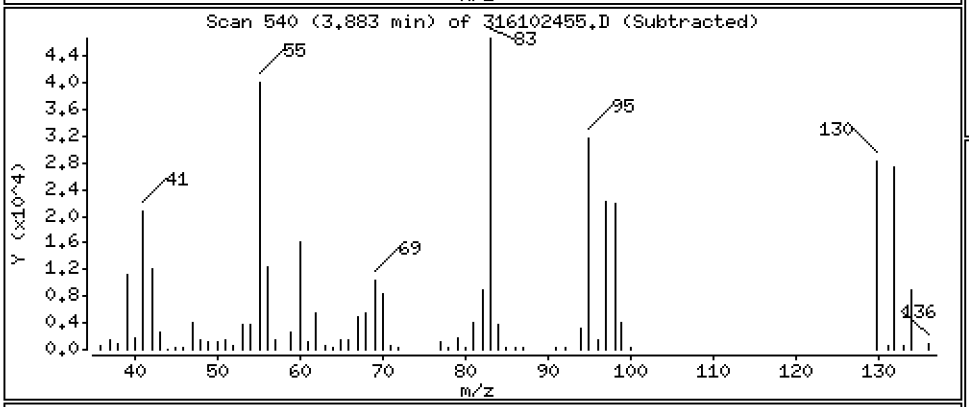
Purge Volume: 5.0 Operator: CJG

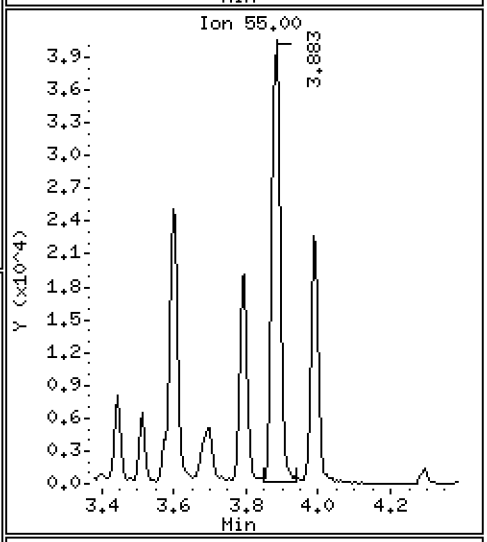
Column phase: DB-VRX Column diameter: 0.25

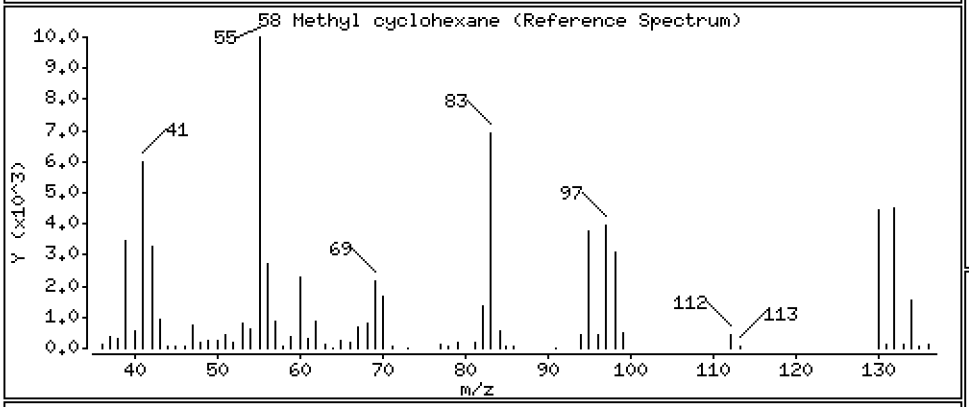
58 Methyl cyclohexane Concentration: 5.89290 ug/L

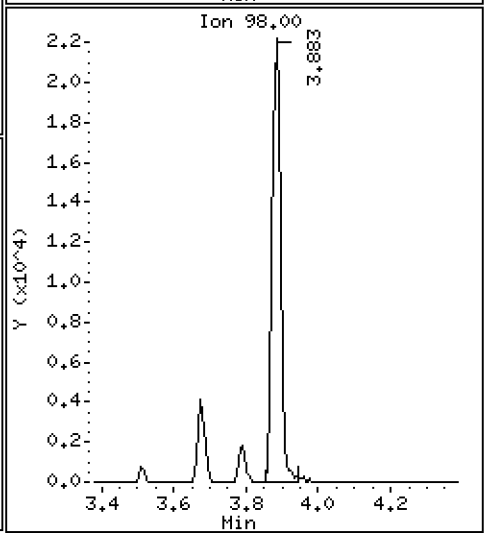


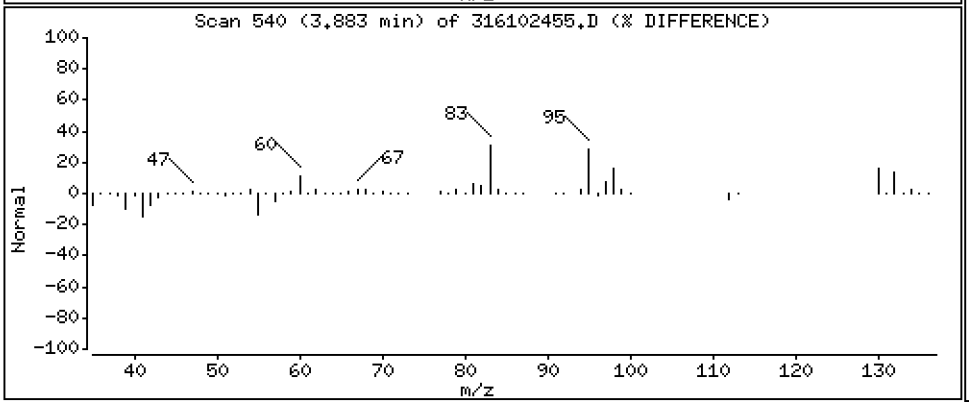












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 64

Date : 25-OCT-2016 00:08

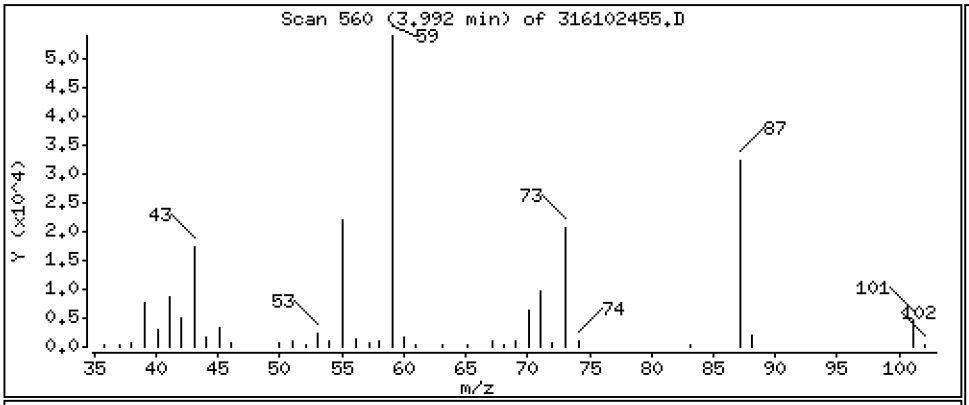
Client ID: Instrument: ms03.i

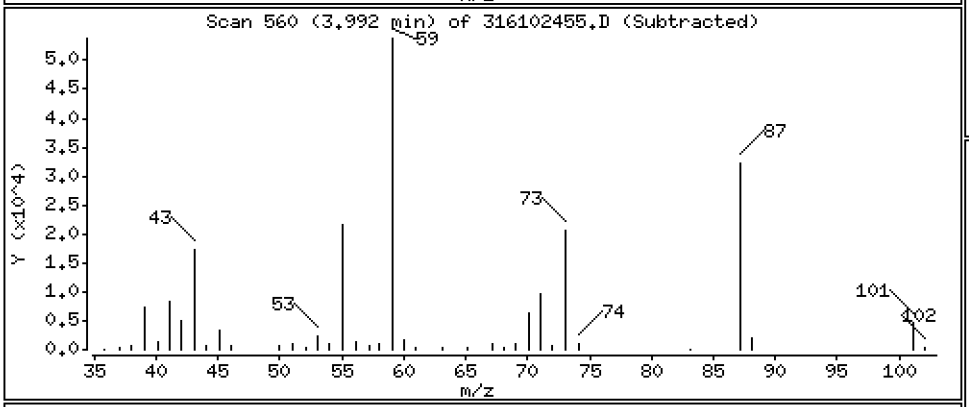
Sample Info: 1235;;1;1;2;;;

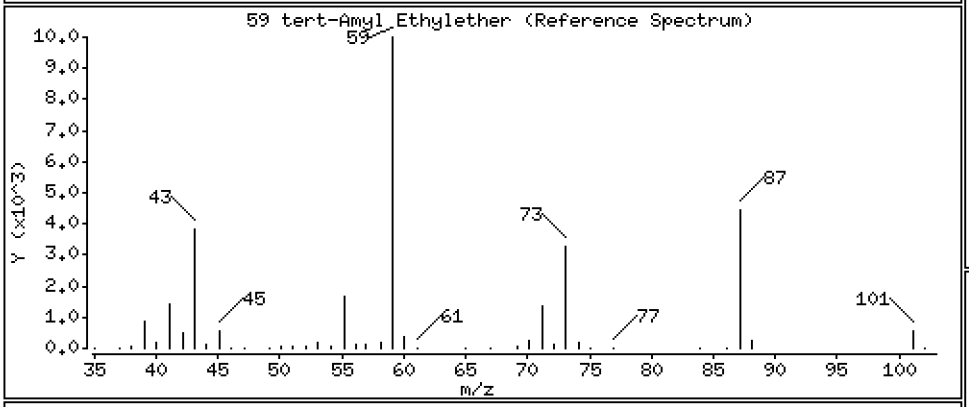
Purge Volume: 5.0 Operator: CJG

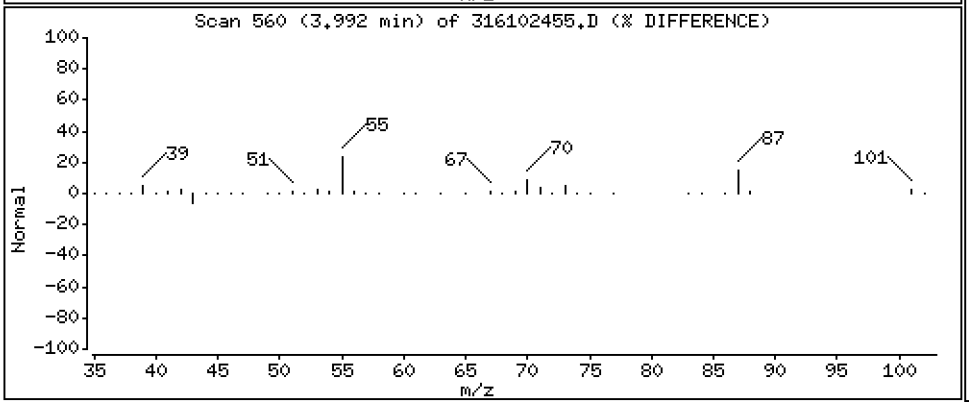
Column phase: DB-VRX Column diameter: 0.25

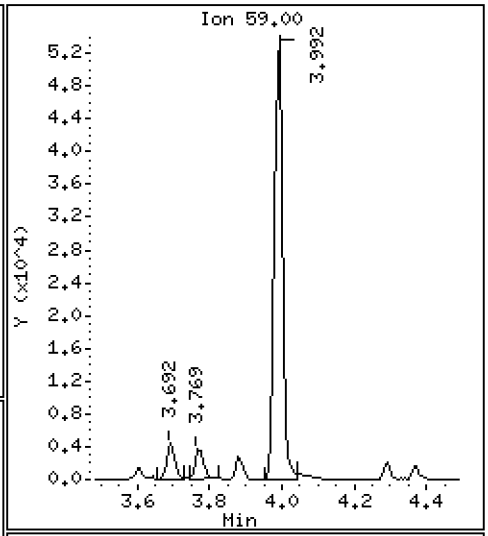
59 tert-Amyl Ethylether Concentration: 4.48425 ug/L

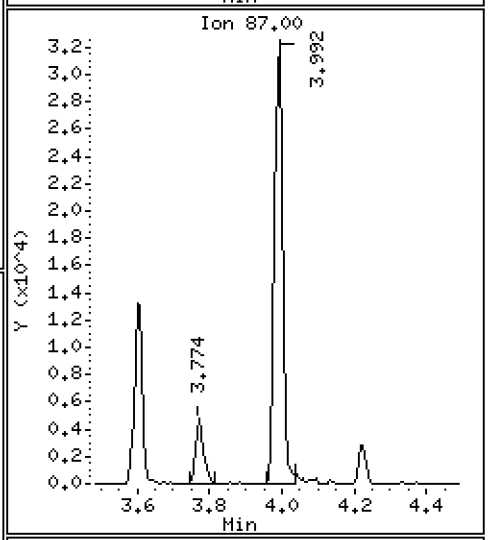


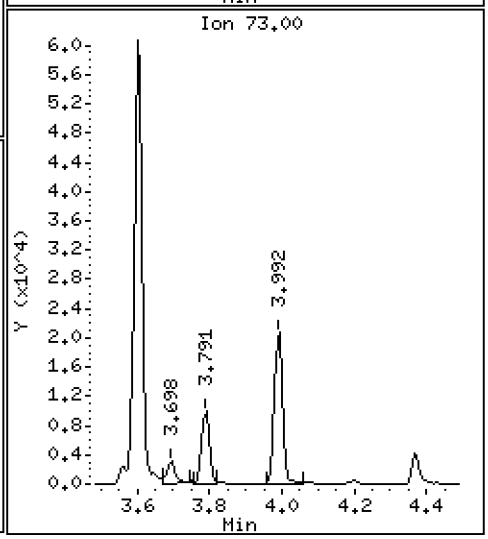












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 65

Date : 25-OCT-2016 00:08

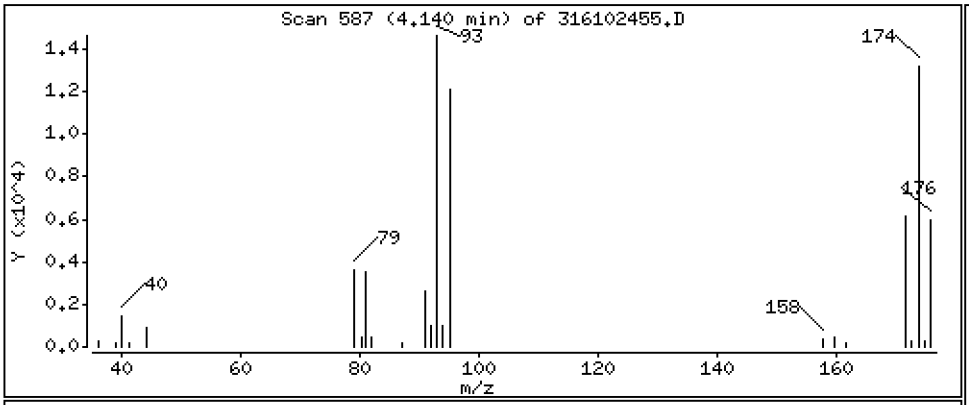
Client ID: Instrument: ms03.i

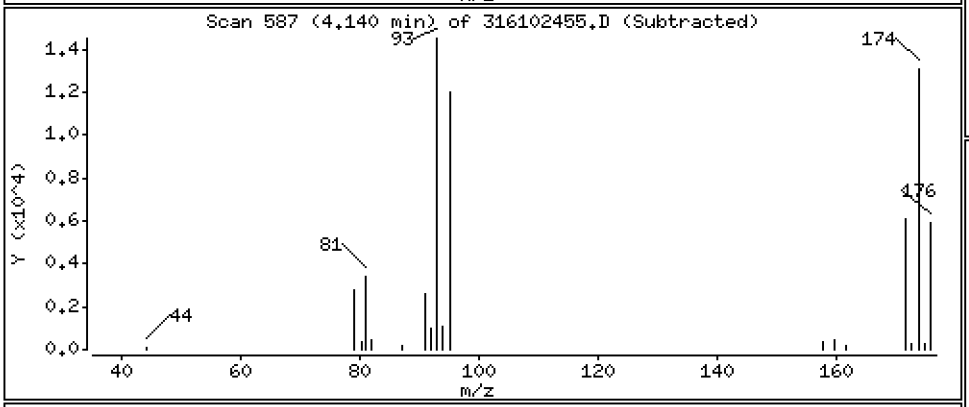
Sample Info: 1235;;1;1;2;;;

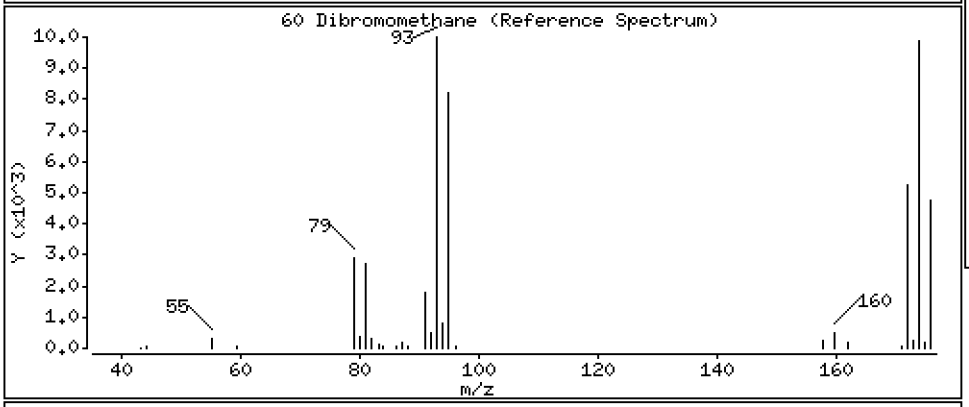
Purge Volume: 5.0 Operator: CJG

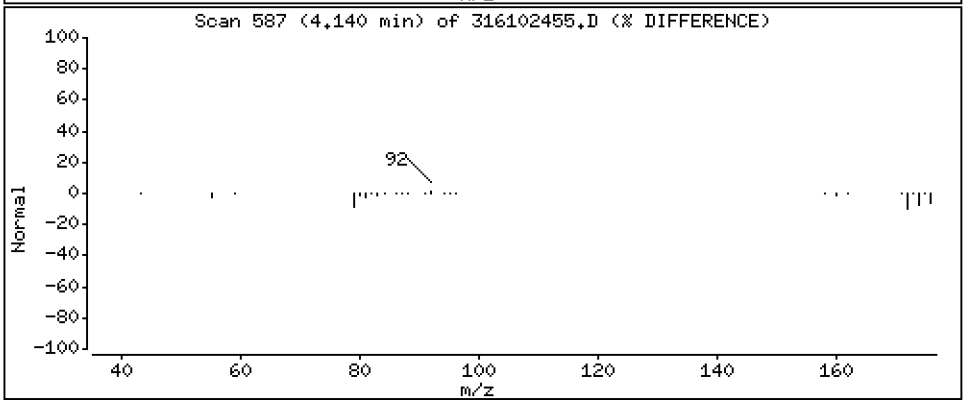
Column phase: DB-VRX Column diameter: 0.25

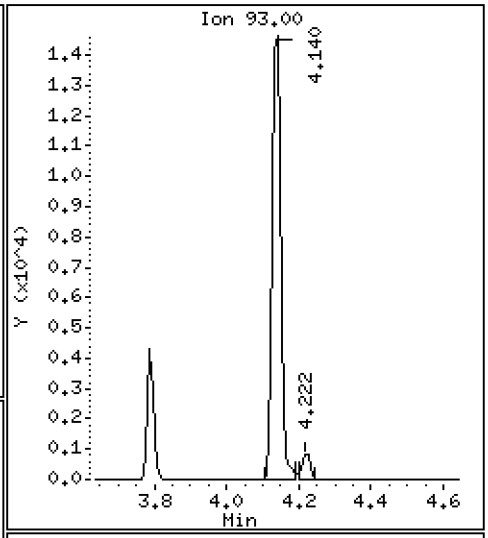
60 Dibromomethane Concentration: 5.07669 ug/L

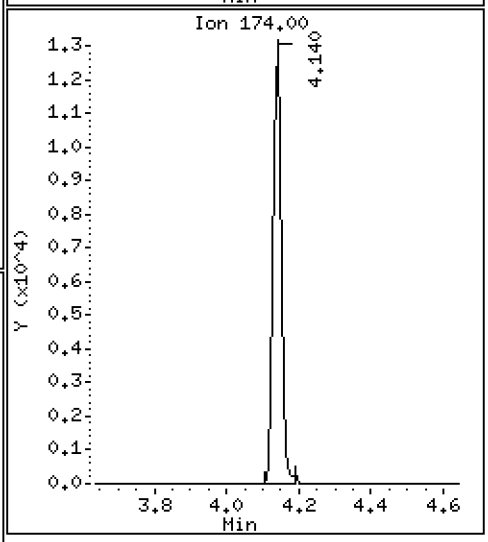












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 66

Date : 25-OCT-2016 00:08

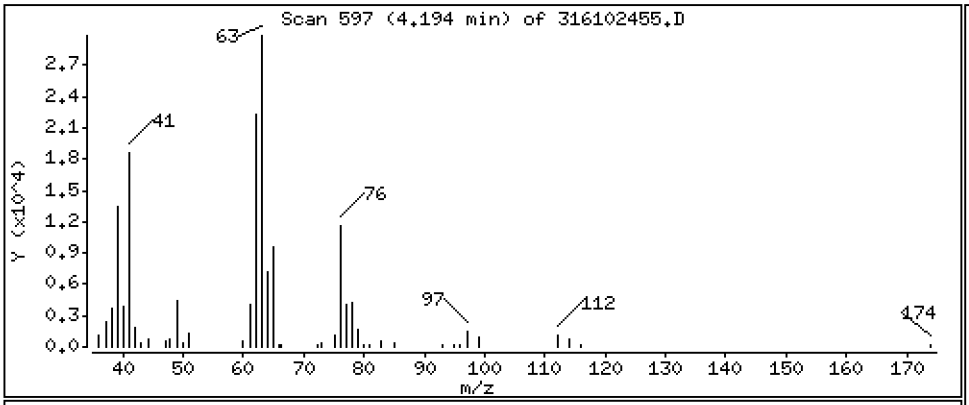
Client ID: Instrument: ms03.i

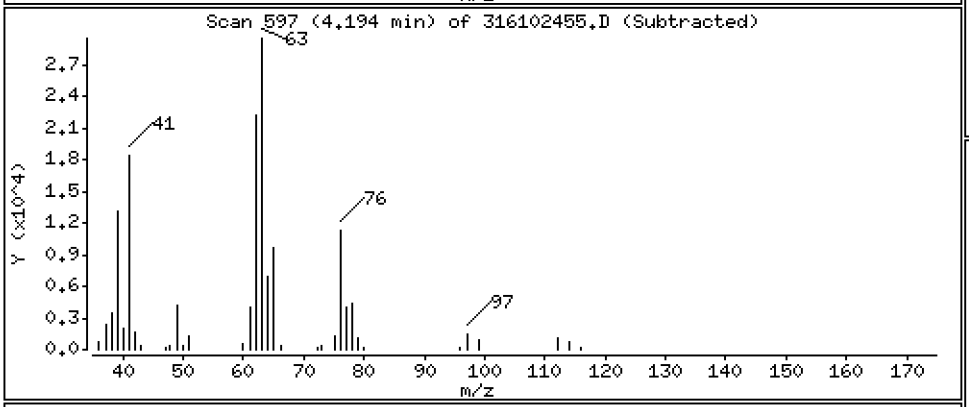
Sample Info: 1235;;1;1;2;;;

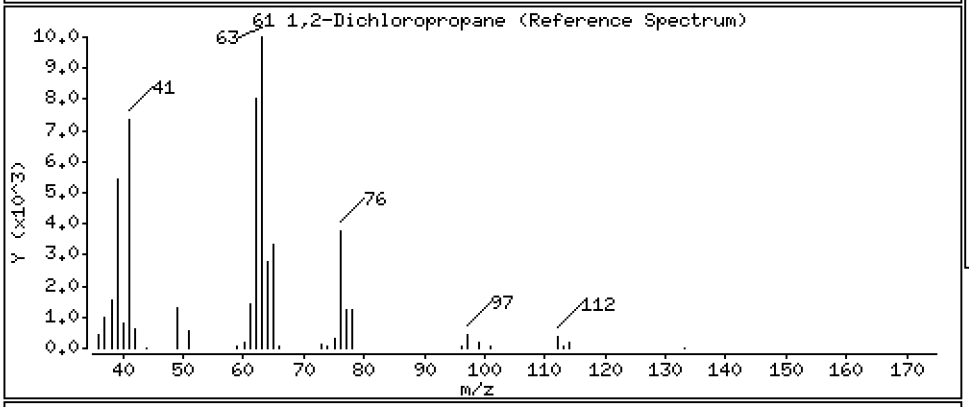
Purge Volume: 5.0 Operator: CJG

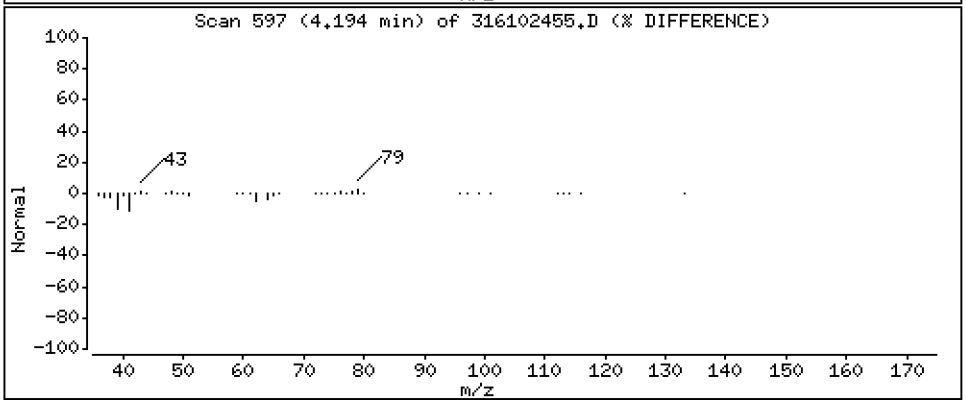
Column phase: DB-VRX Column diameter: 0.25

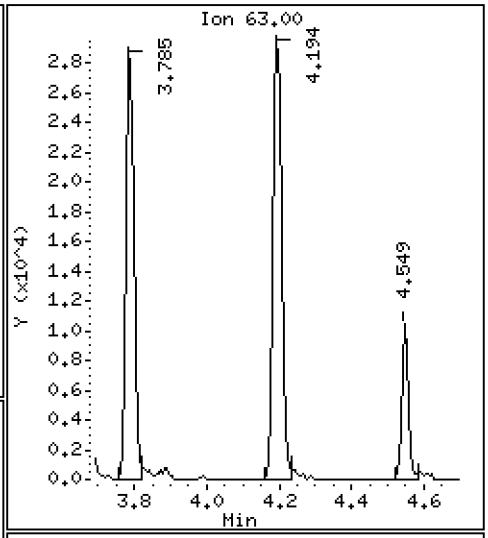
61 1,2-Dichloropropane Concentration: 4.99016 ug/L

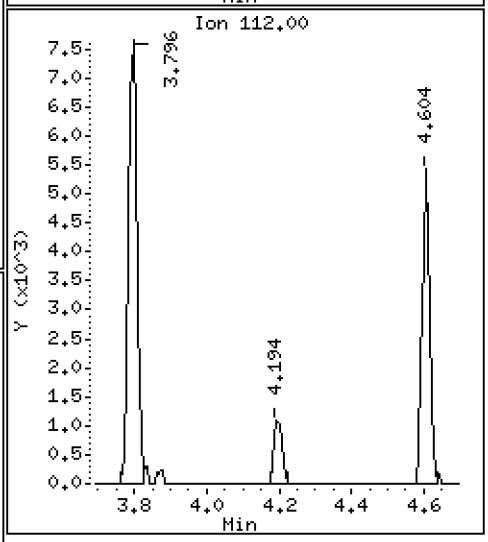












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 67

Date : 25-OCT-2016 00:08

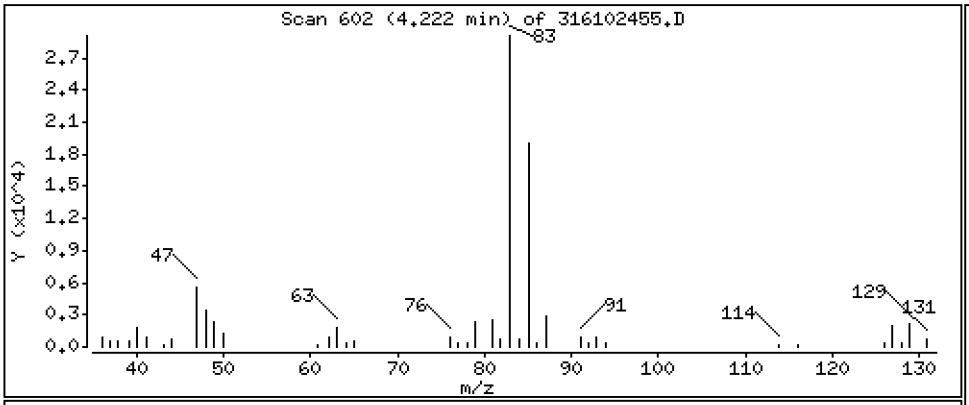
Client ID: Instrument: ms03.i

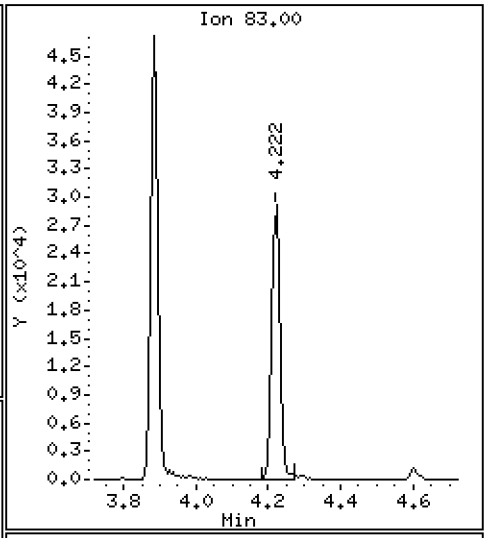
Sample Info: 1235;;1;1;2;;;

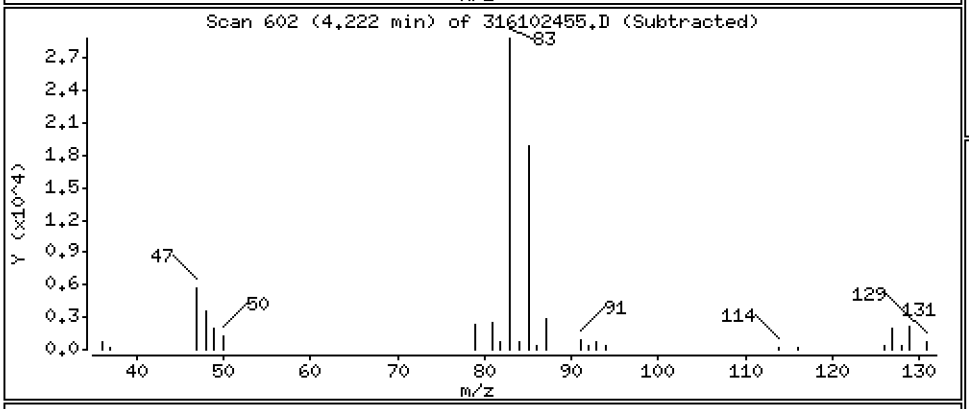
Purge Volume: 5.0 Operator: CJG

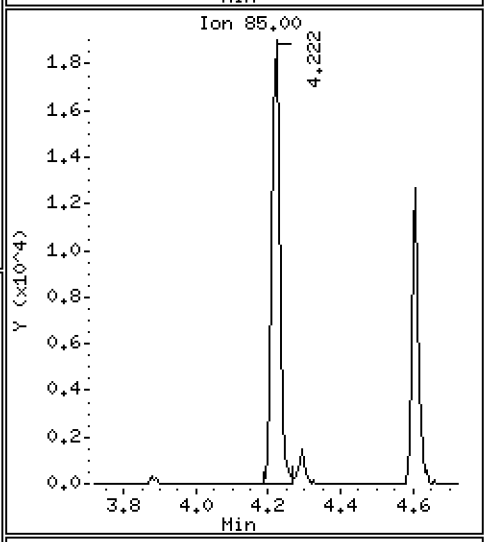
Column phase: DB-VRX Column diameter: 0.25

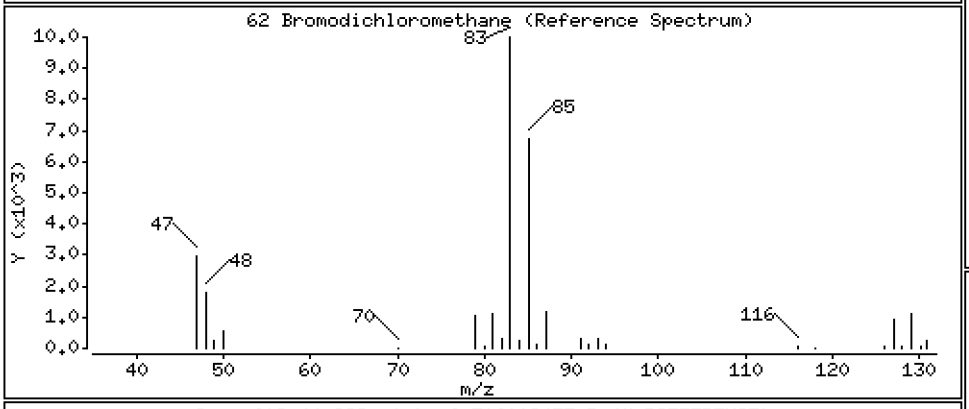
62 Bromodichloromethane Concentration: 4.48588 ug/L

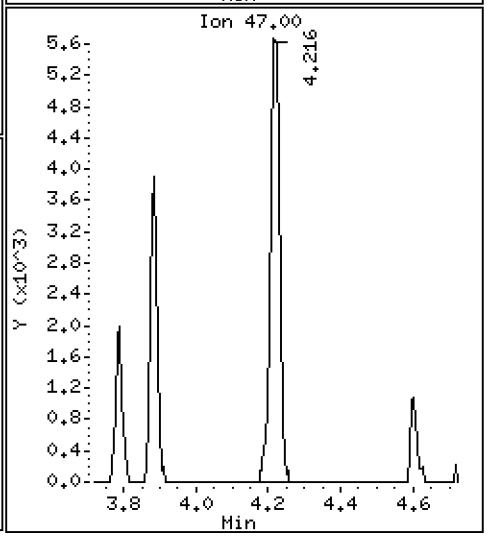


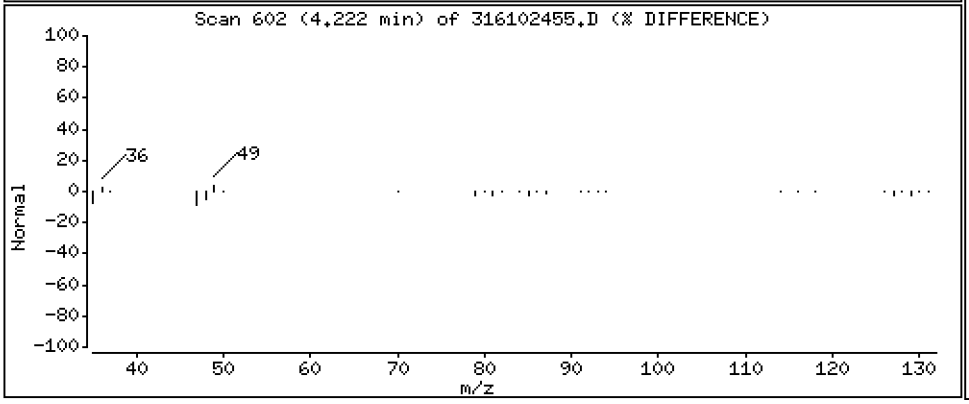












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 68

Date : 25-OCT-2016 00:08

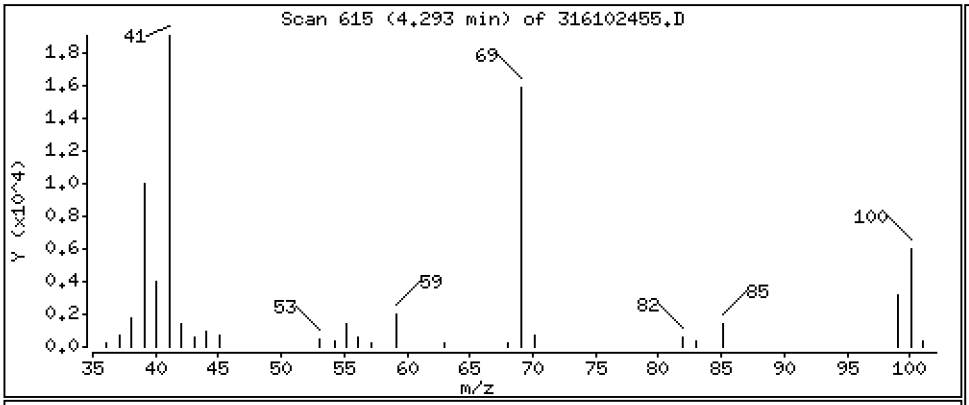
Client ID: Instrument: ms03.i

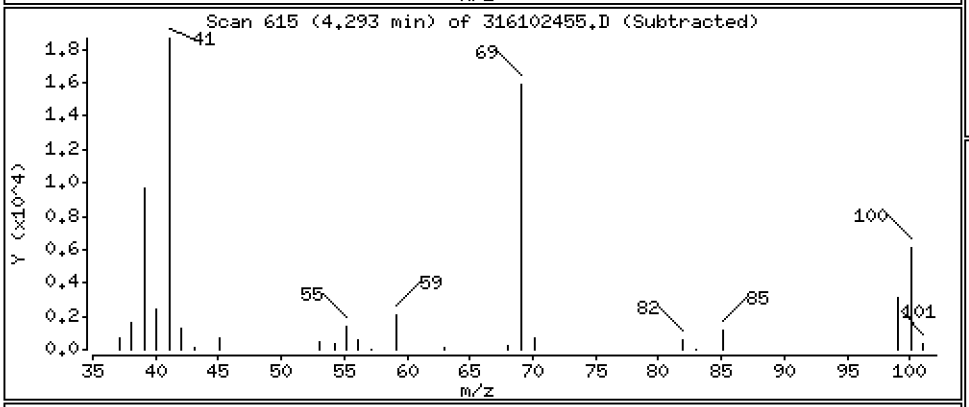
Sample Info: 1235;;1;1;2;;;

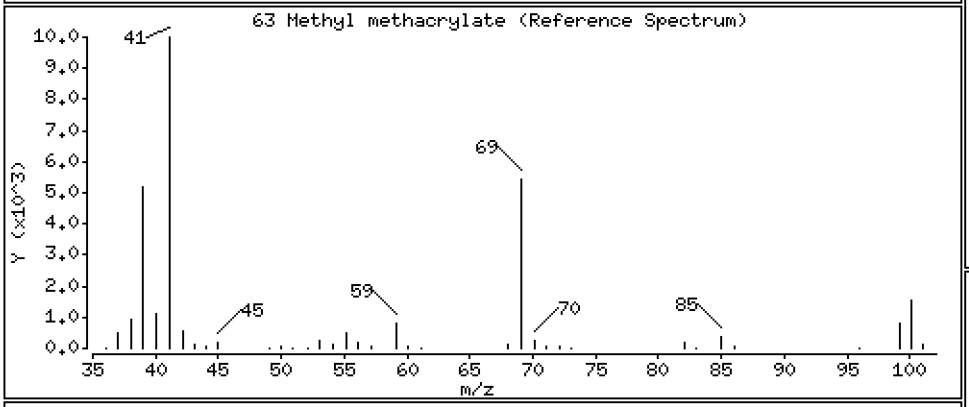
Purge Volume: 5.0 Operator: CJG

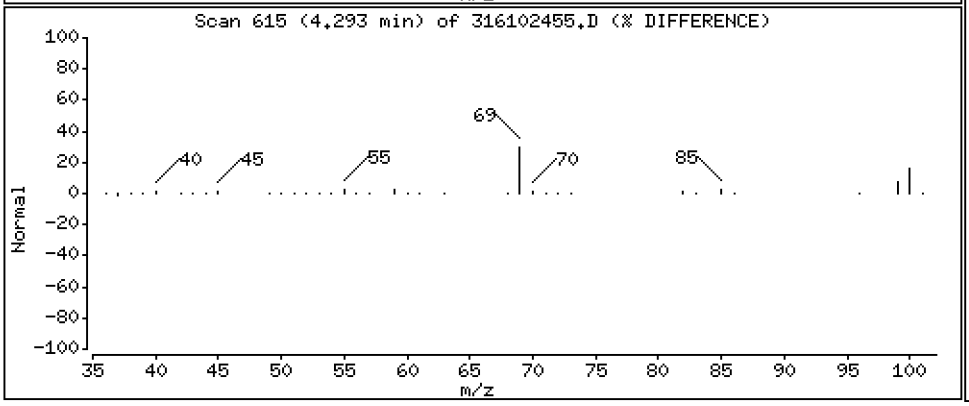
Column phase: DB-VRX Column diameter: 0.25

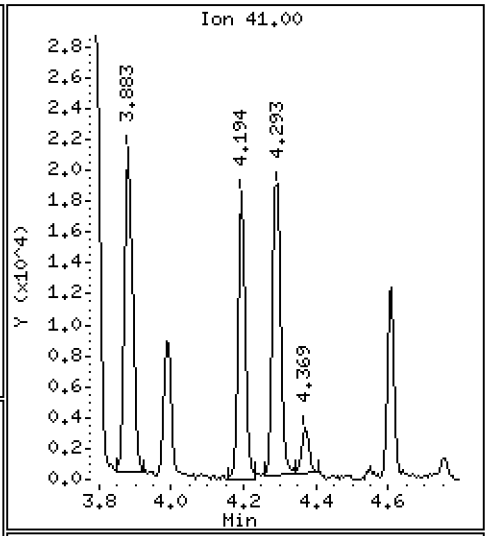
63 Methyl methacrylate Concentration: 4.09792 ug/L

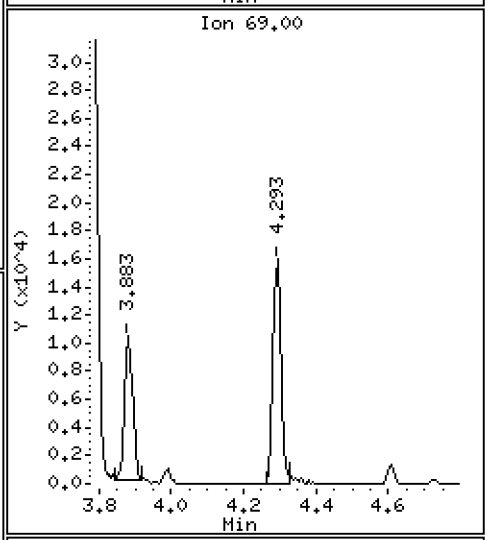


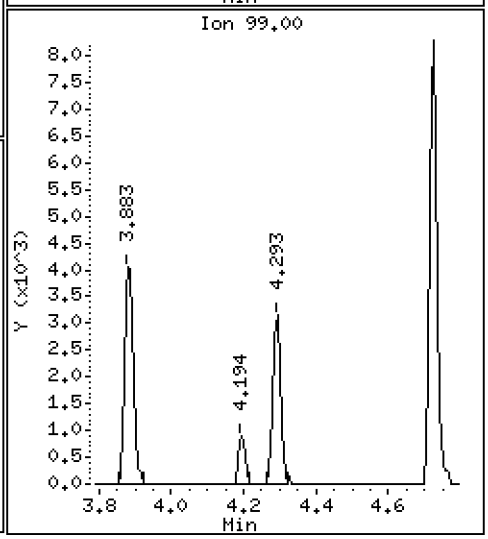












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 69

Date : 25-OCT-2016 00:08

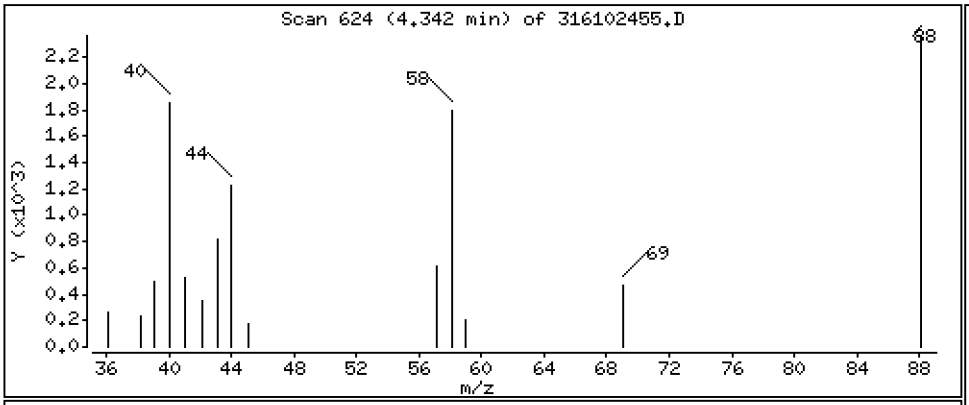
Client ID: Instrument: ms03.i

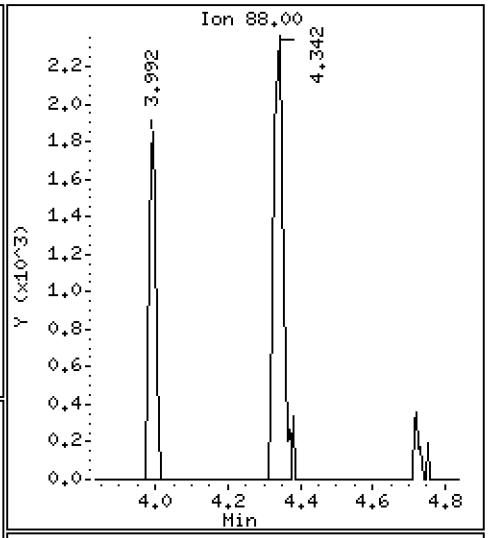
Sample Info: 1235;;1;1;2;;;

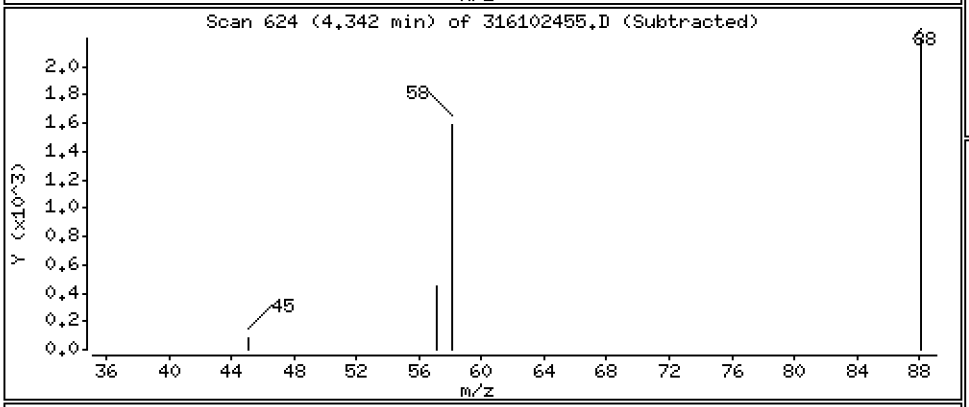
Purge Volume: 5.0 Operator: CJG

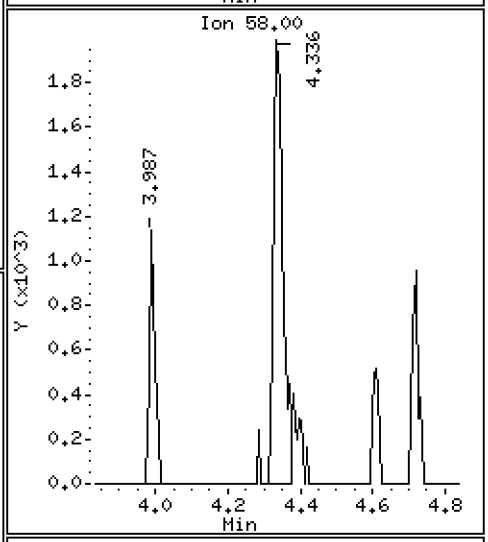
Column phase: DB-VRX Column diameter: 0.25

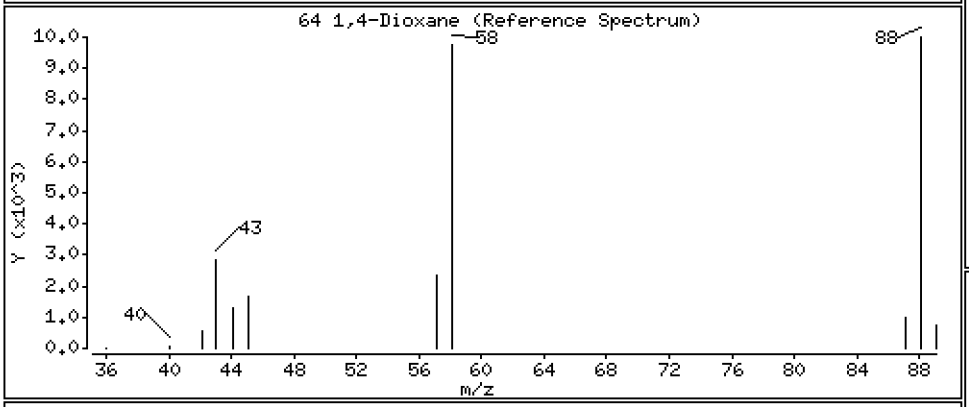
64 1,4-Dioxane Concentration: 120.749 ug/L

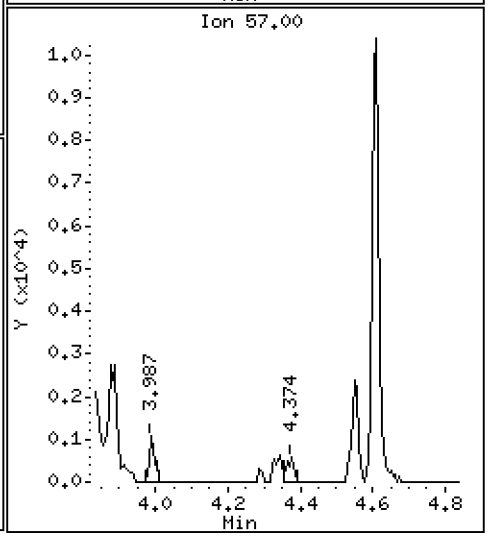


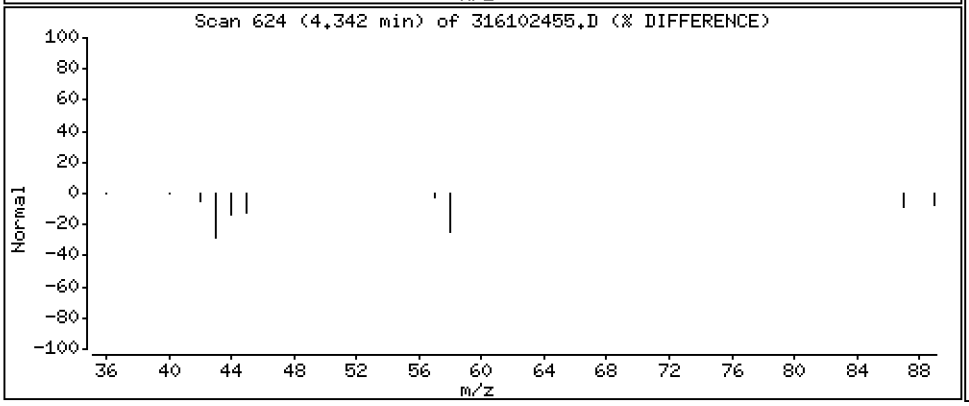












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 70

Date : 25-OCT-2016 00:08

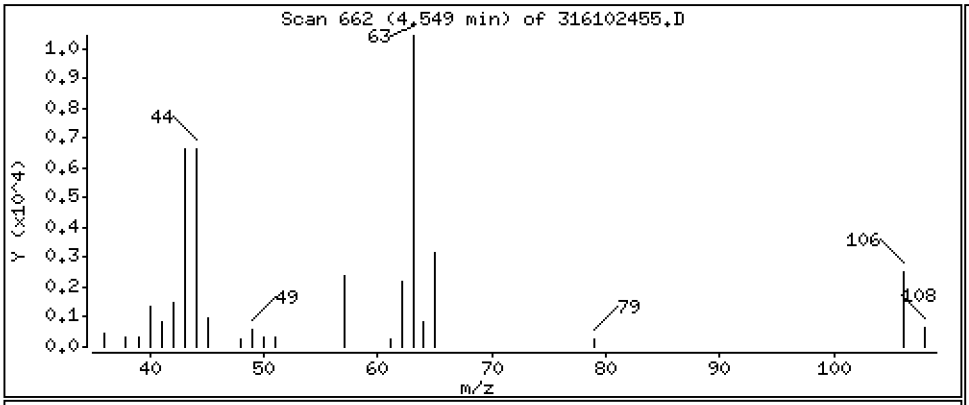
Client ID: Instrument: ms03.i

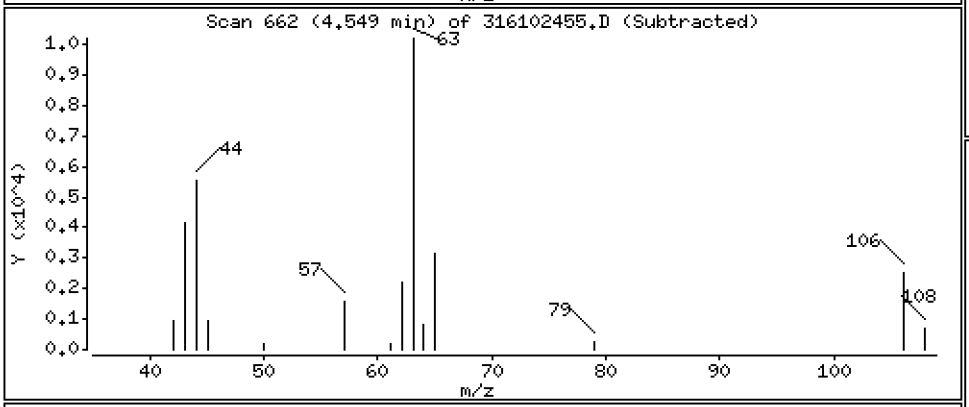
Sample Info: 1235;;1;1;2;;;

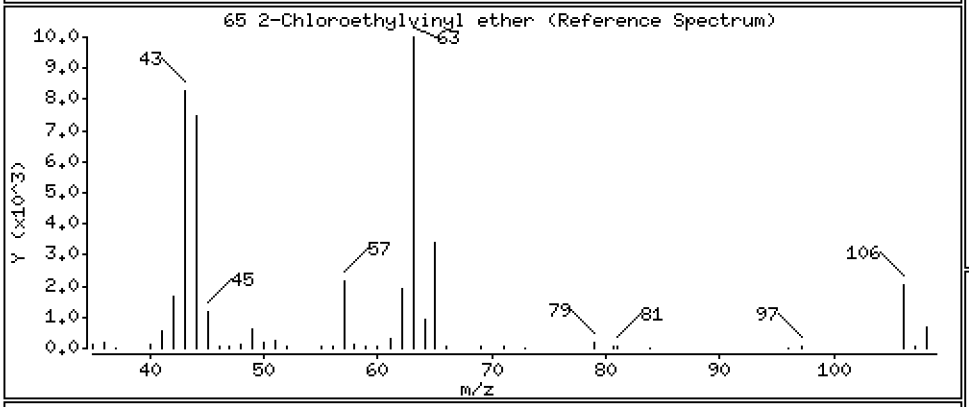
Purge Volume: 5.0 Operator: CJG

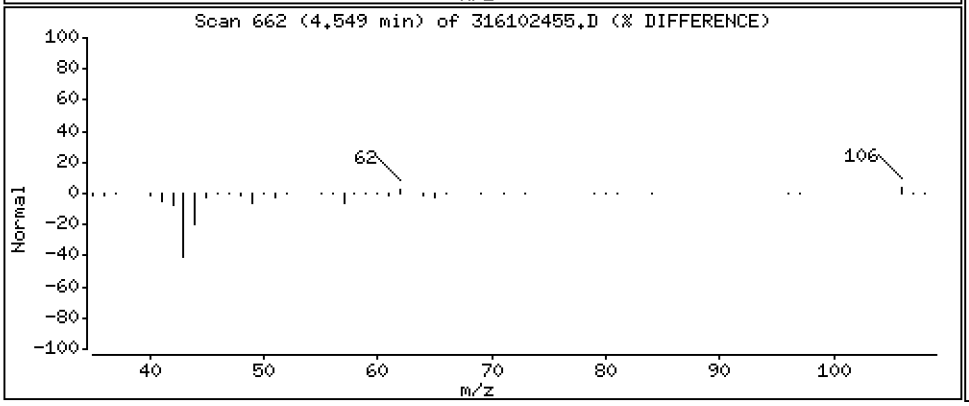
Column phase: DB-VRX Column diameter: 0.25

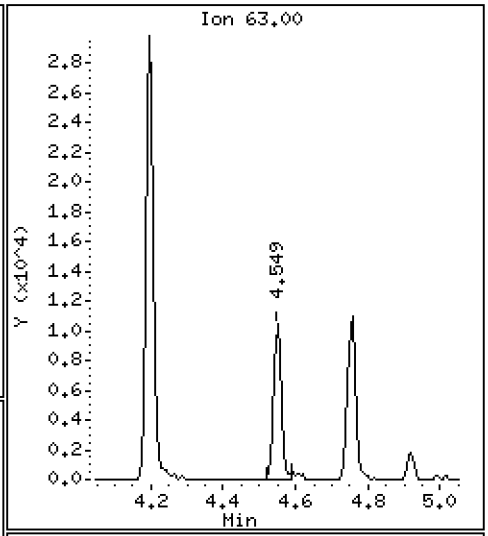
65 2-Chloroethylvinyl ether Concentration: 3.45759 ug/L

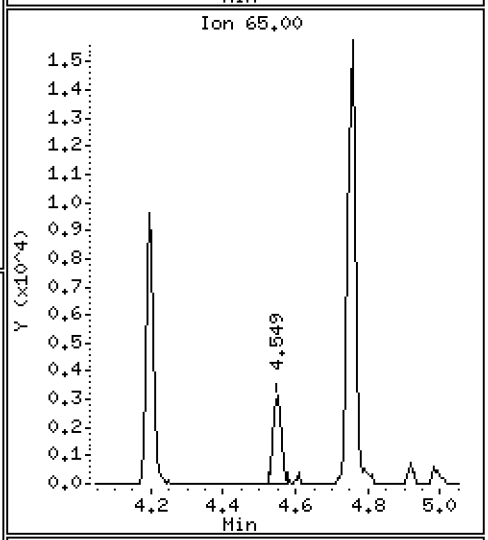


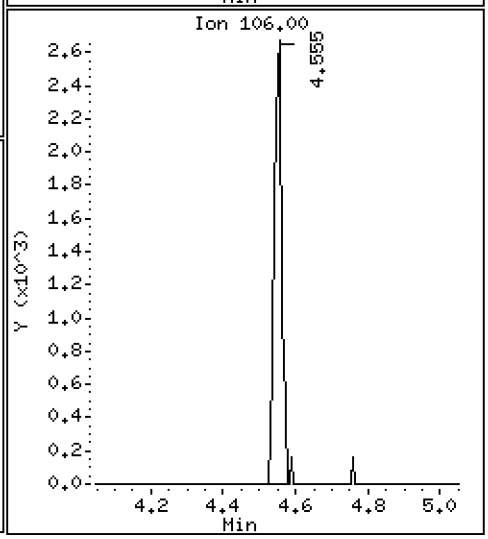












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 71

Date : 25-OCT-2016 00:08

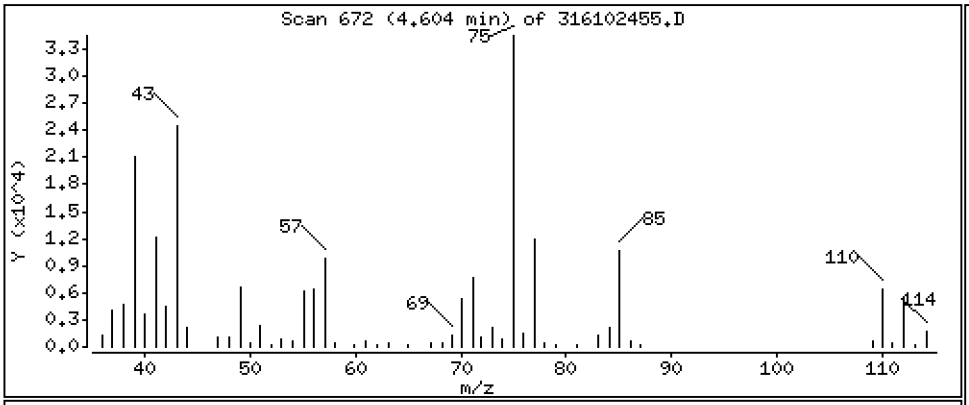
Client ID: Instrument: ms03.i

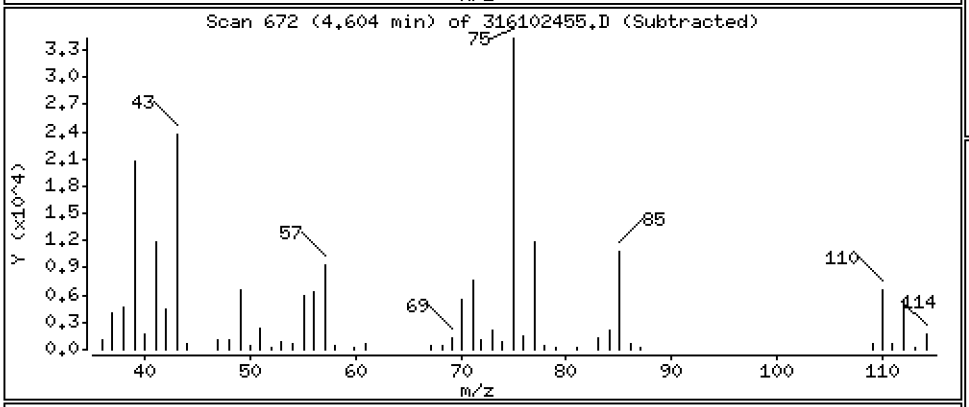
Sample Info: 1235;;1;1;2;;;

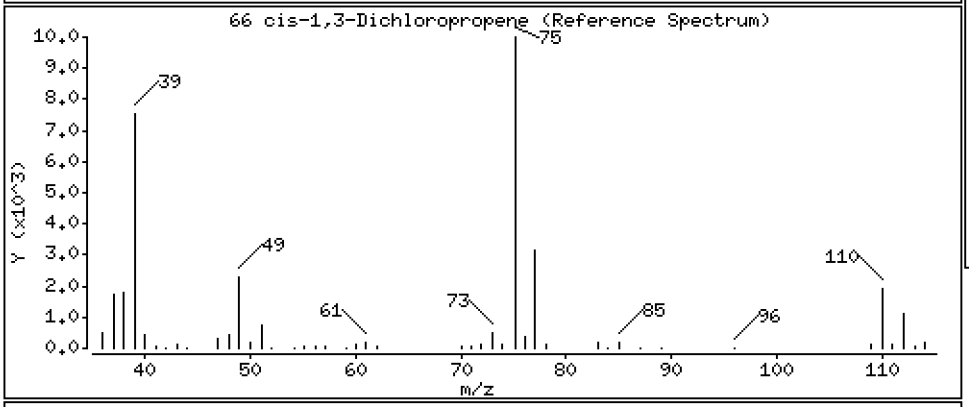
Purge Volume: 5.0 Operator: CJG

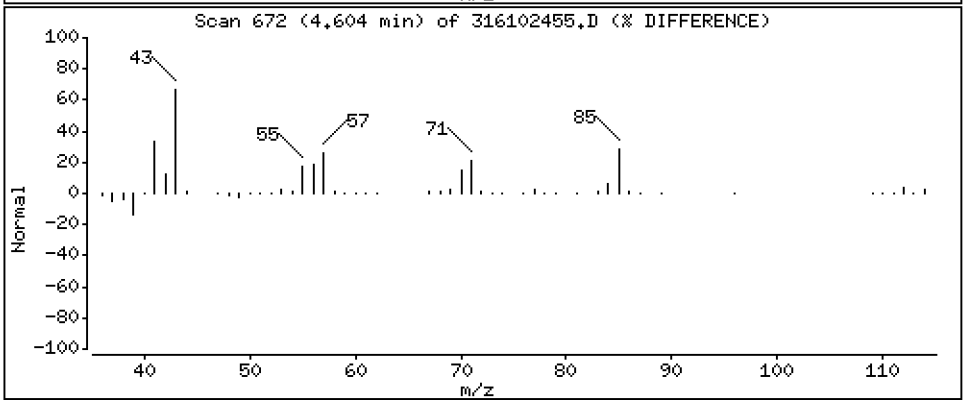
Column phase: DB-VRX Column diameter: 0.25

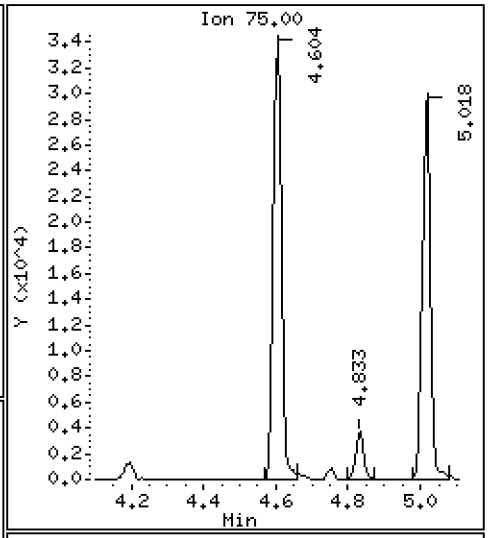
66 cis-1,3-Dichloropropene Concentration: 4.15473 ug/L

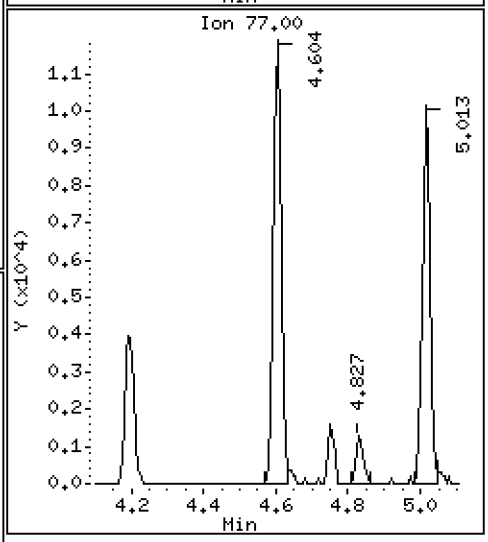












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 72

Date : 25-OCT-2016 00:08

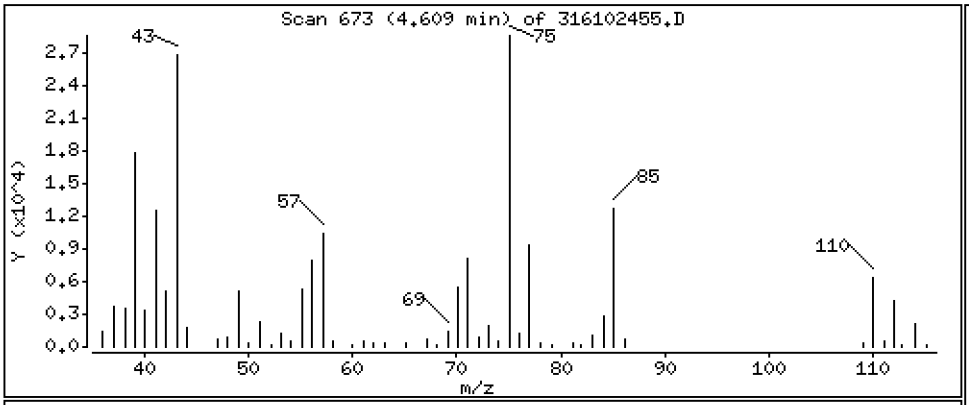
Client ID: Instrument: ms03.i

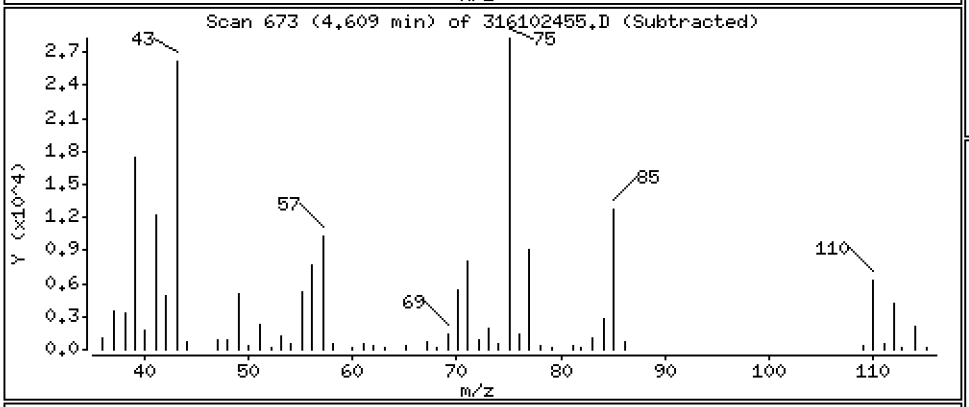
Sample Info: 1235;;1;1;2;;;

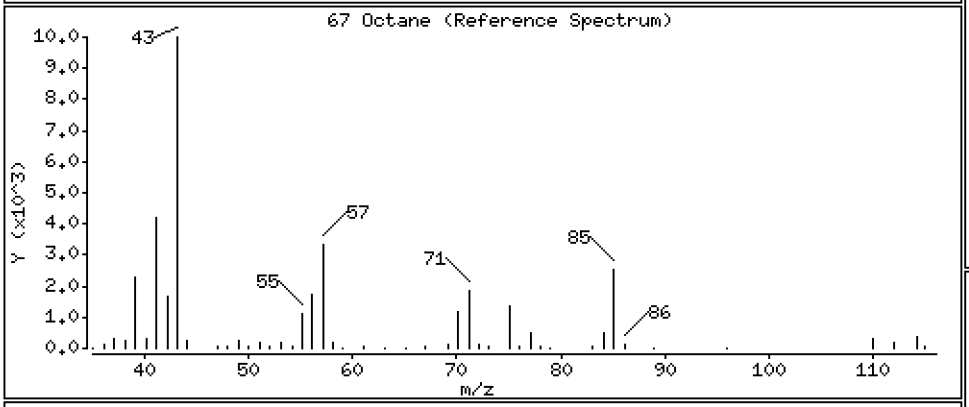
Purge Volume: 5.0 Operator: CJG

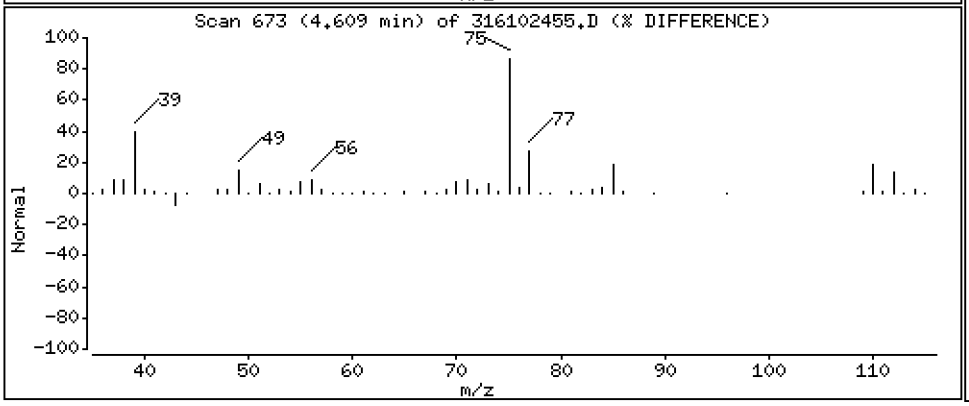
Column phase: DB-VRX Column diameter: 0.25

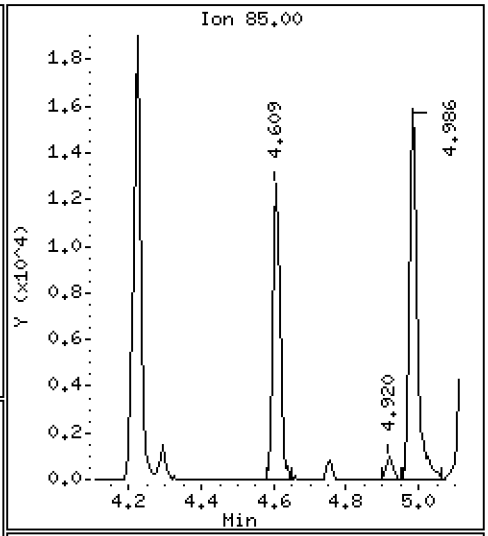
67 Octane Concentration: 4.70949 ug/L

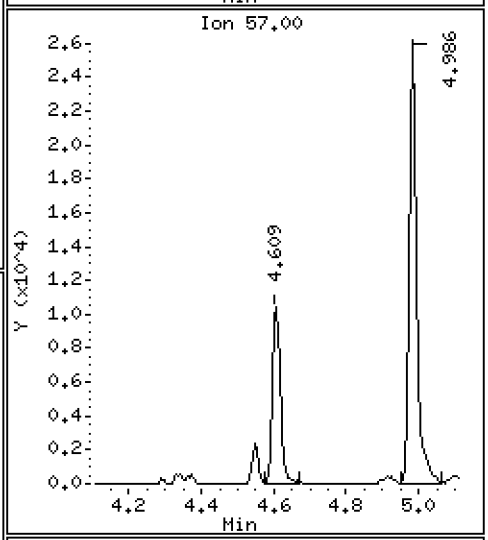


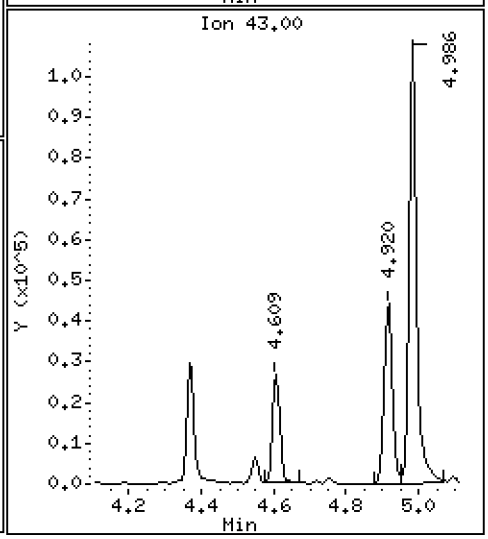












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 73

Date : 25-OCT-2016 00:08

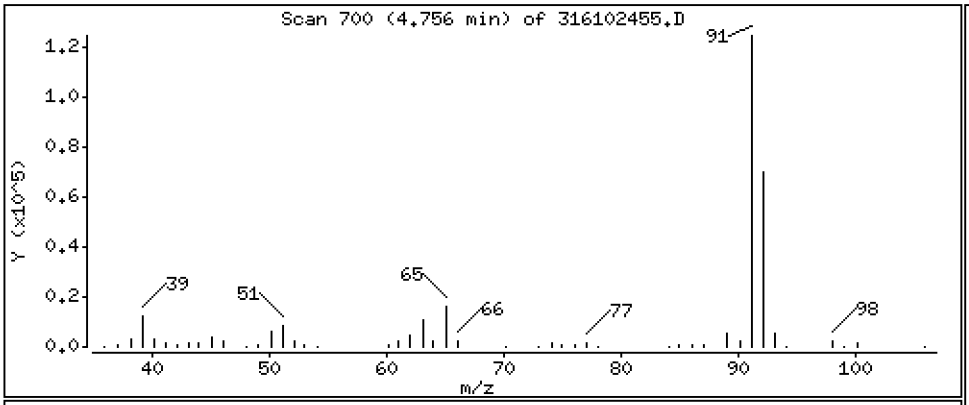
Client ID: Instrument: ms03.i

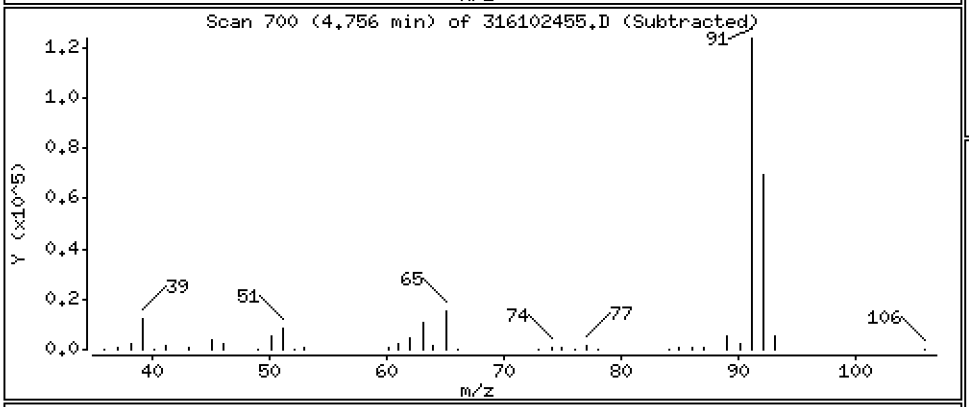
Sample Info: 1235;;1;1;2;;;

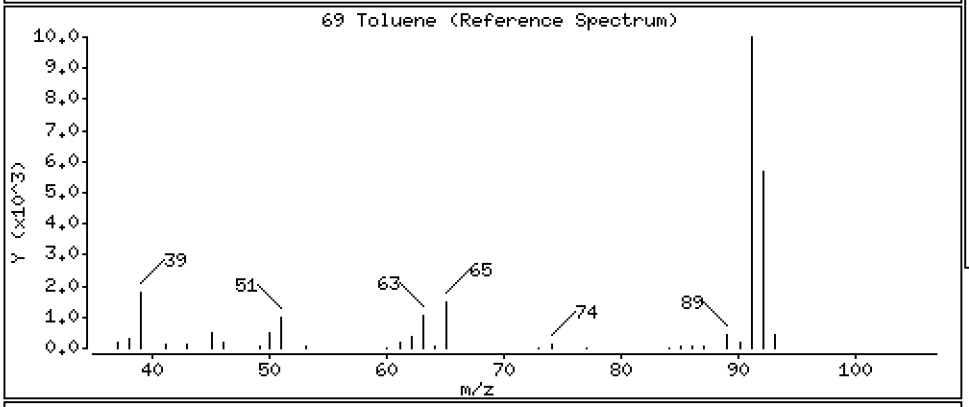
Purge Volume: 5.0 Operator: CJG

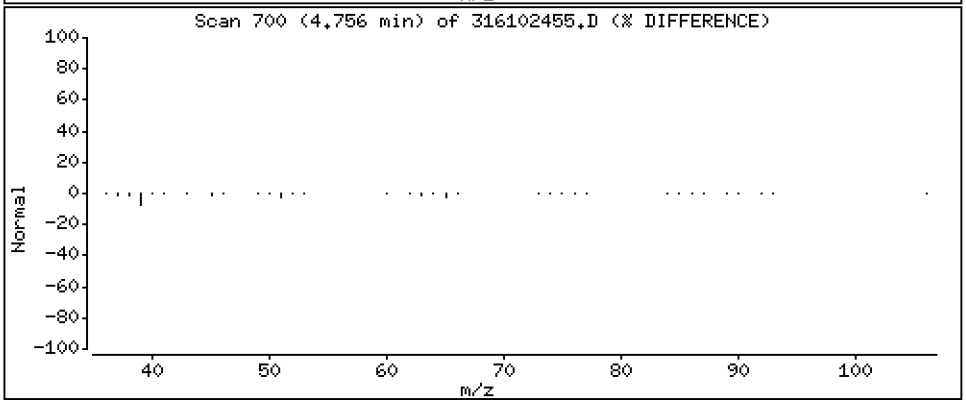
Column phase: DB-VRX Column diameter: 0.25

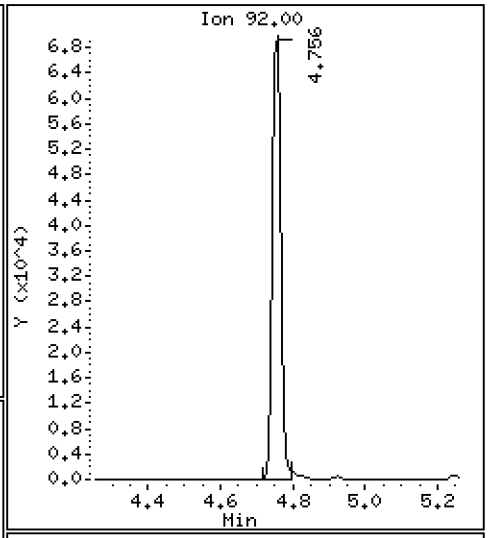
69 Toluene Concentration: 5.39713 ug/L

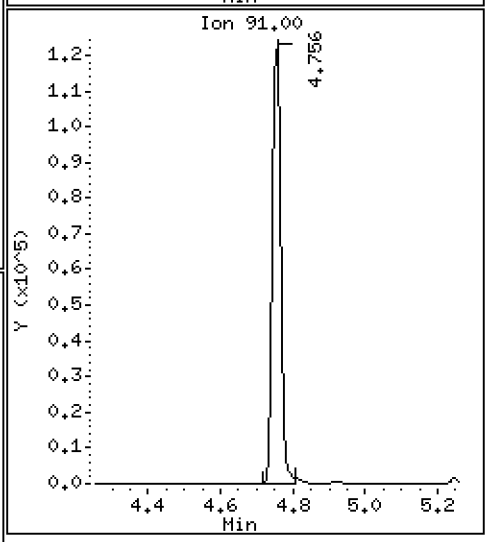












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 74

Date : 25-OCT-2016 00:08

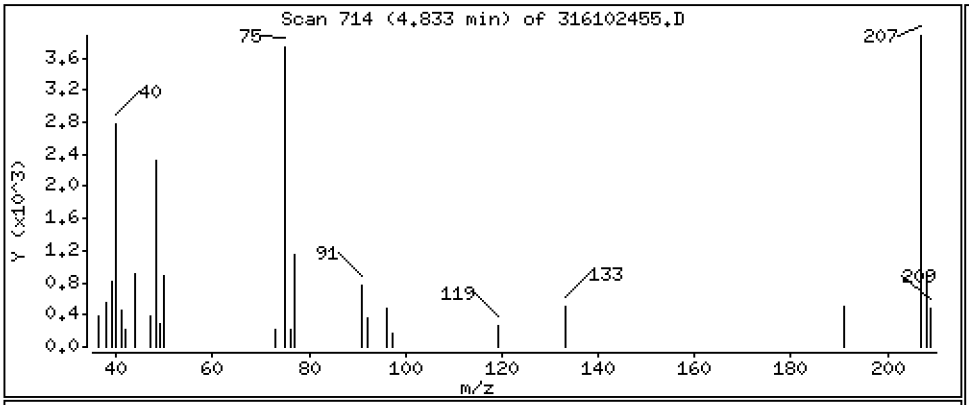
Client ID: Instrument: ms03.i

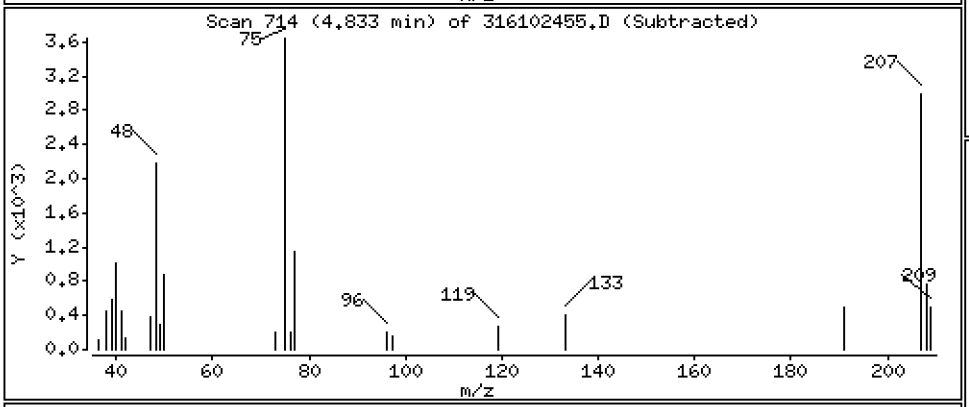
Sample Info: 1235;;1;1;2;;;

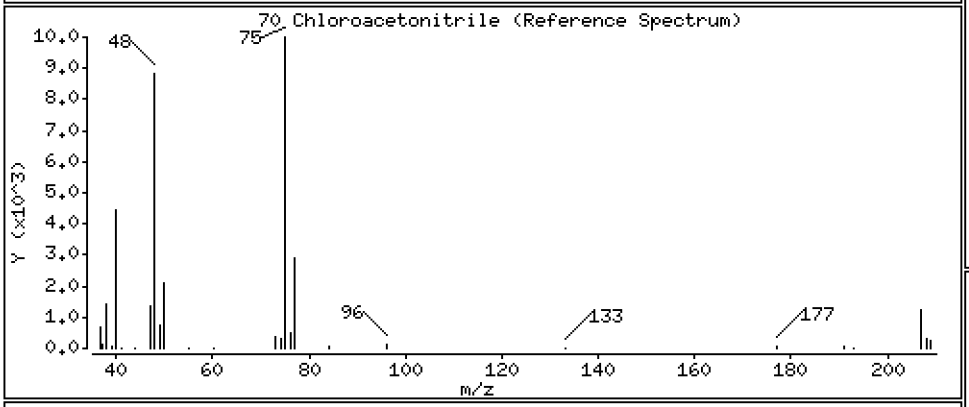
Purge Volume: 5.0 Operator: CJG

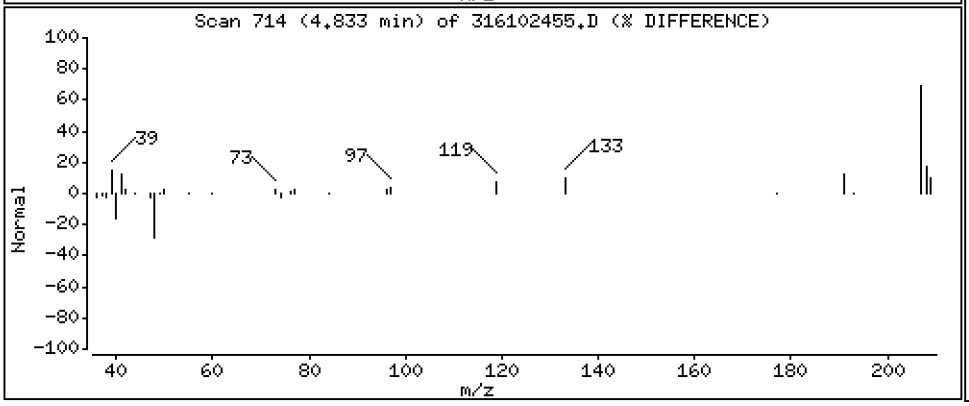
Column phase: DB-VRX Column diameter: 0.25

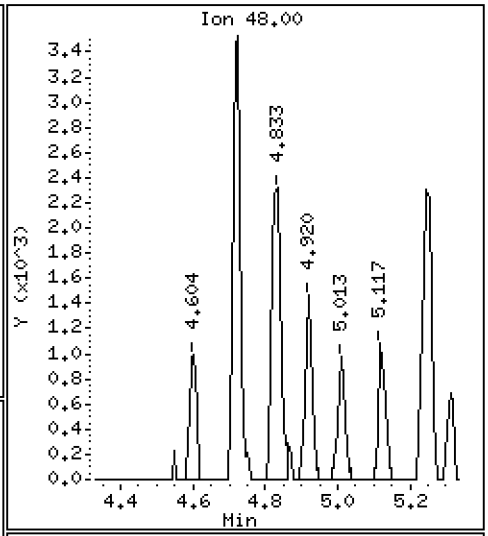
70 Chloroacetonitrile Concentration: 21.0508 ug/L

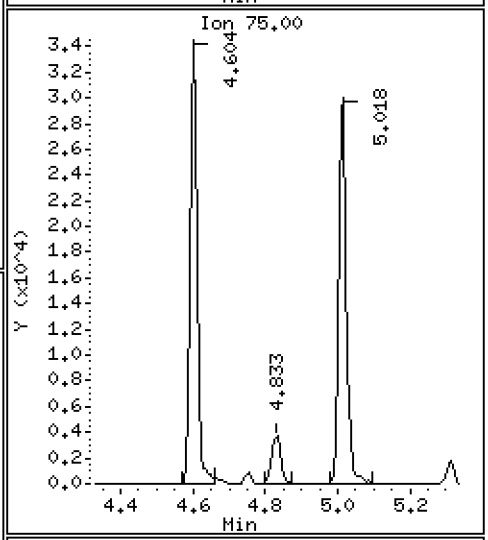


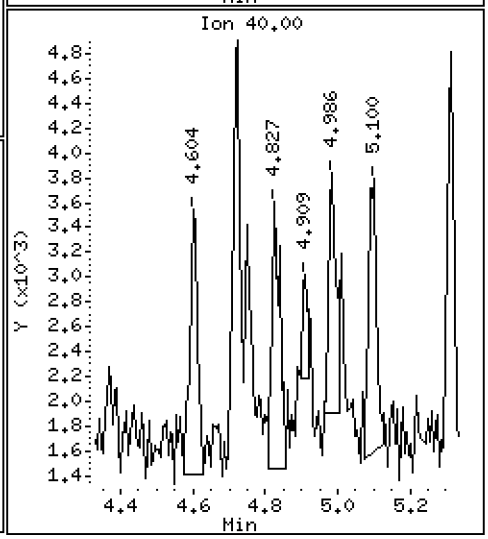












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 75

Date : 25-OCT-2016 00:08

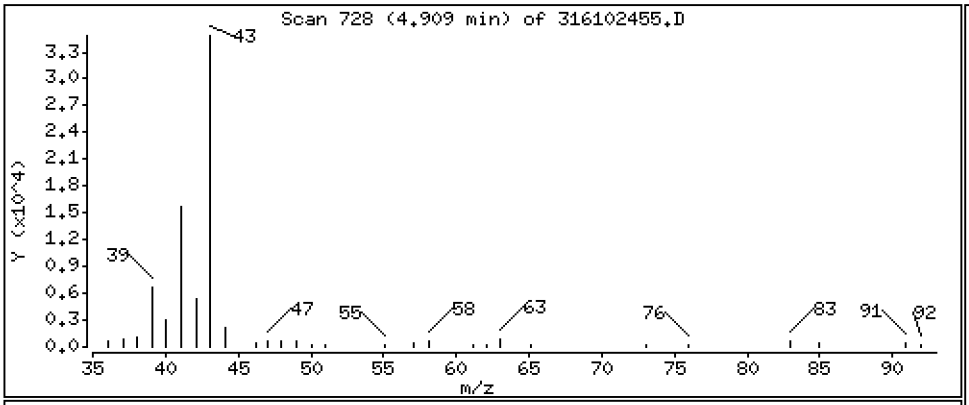
Client ID: Instrument: ms03.i

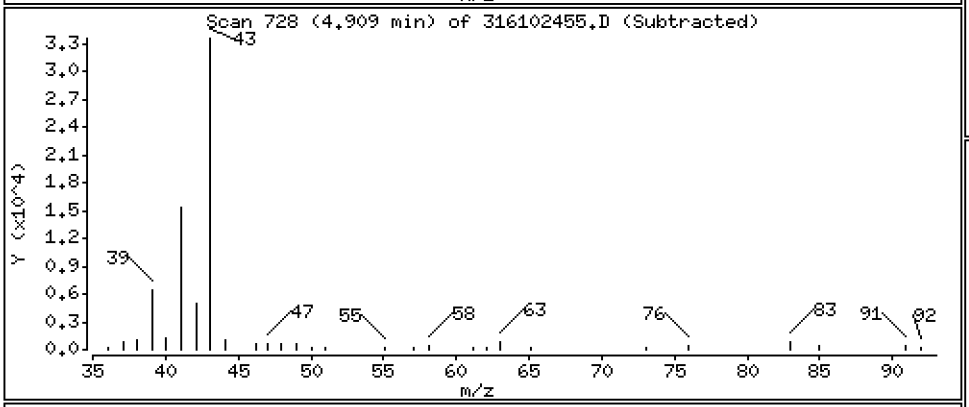
Sample Info: 1235;;1;1;2;;;

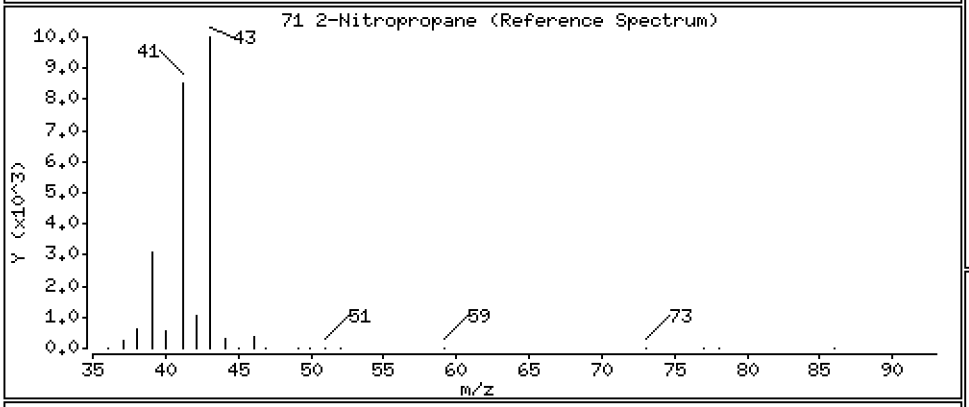
Purge Volume: 5.0 Operator: CJG

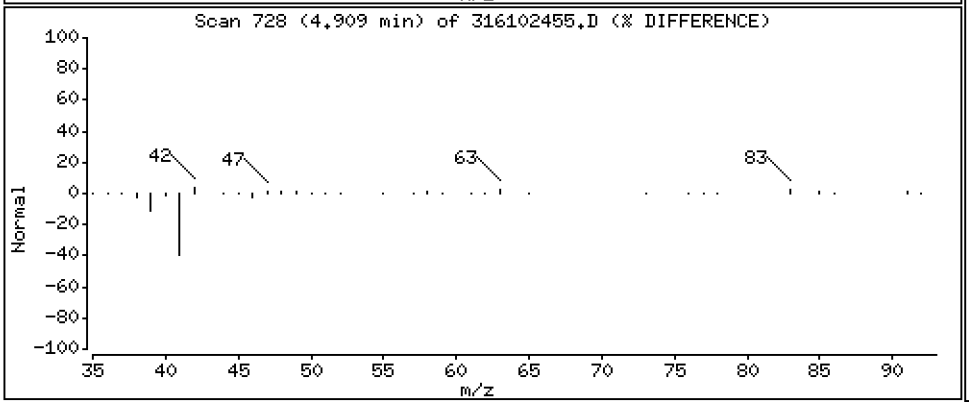
Column phase: DB-VRX Column diameter: 0.25

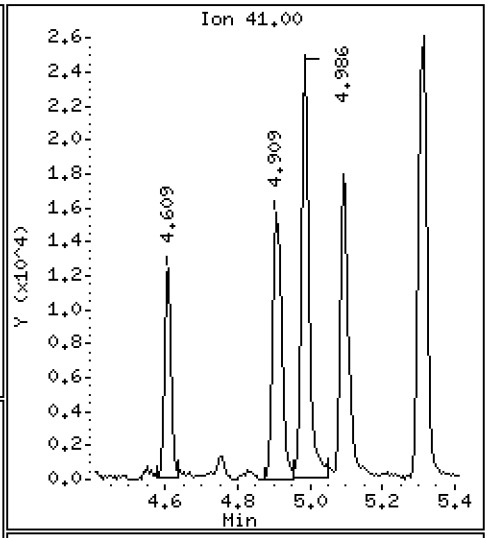
71 2-Nitropropane Concentration: 18.5117 ug/L

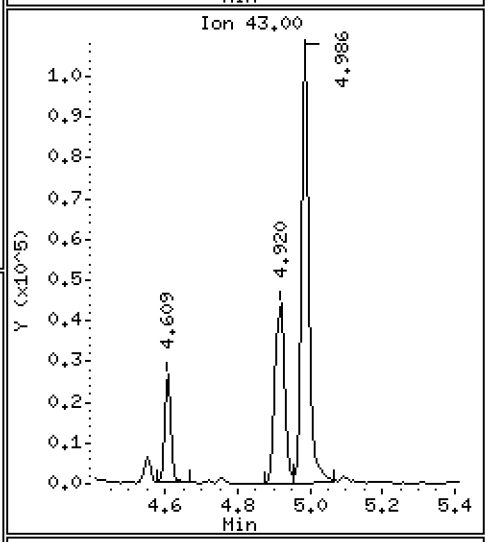


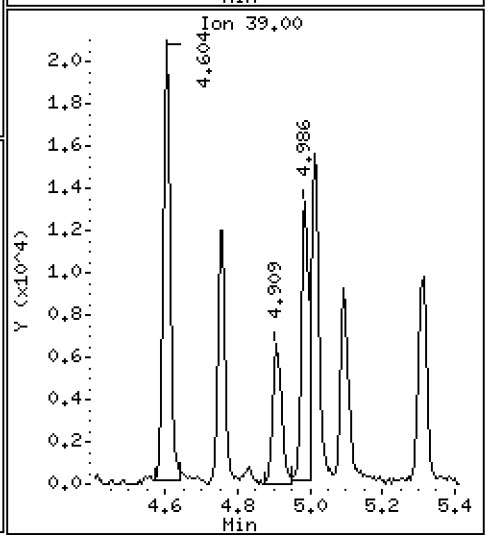












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 76

Date : 25-OCT-2016 00:08

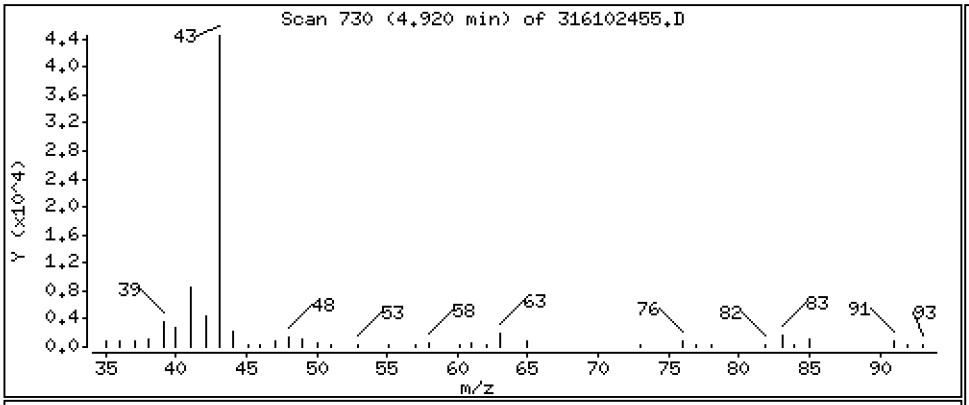
Client ID: Instrument: ms03.i

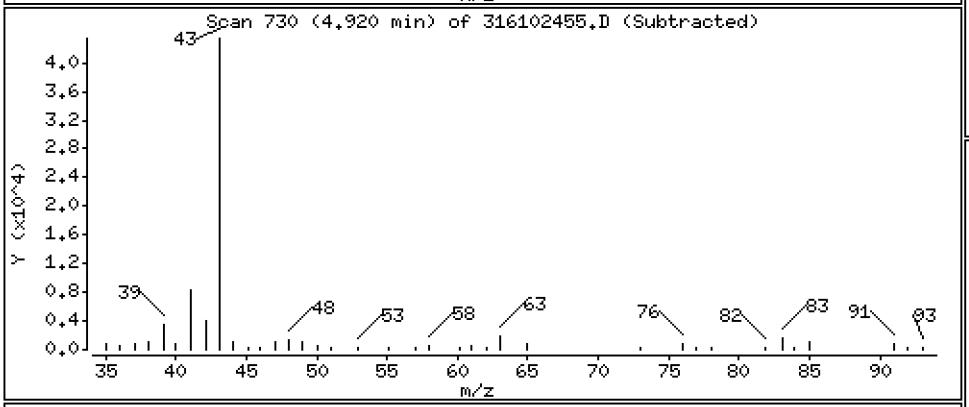
Sample Info: 1235;;1;1;2;;;

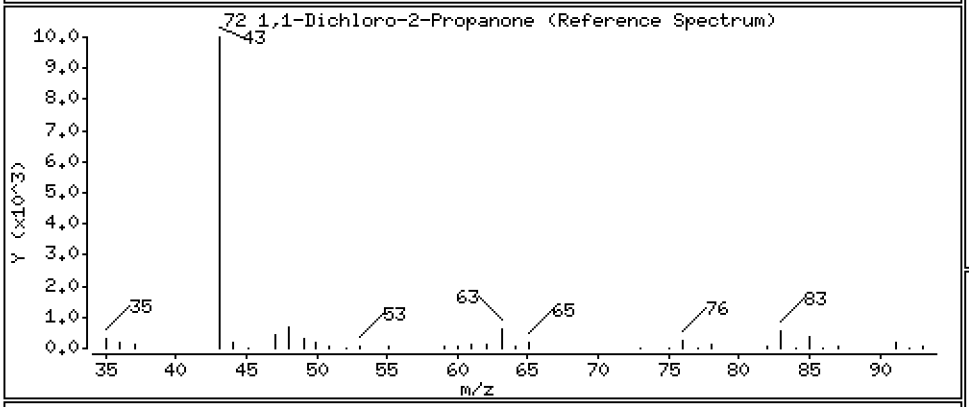
Purge Volume: 5.0 Operator: CJG

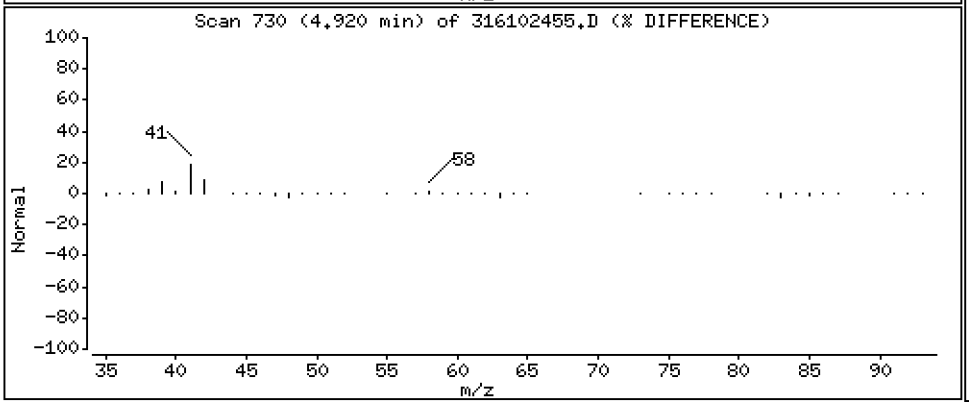
Column phase: DB-VRX Column diameter: 0.25

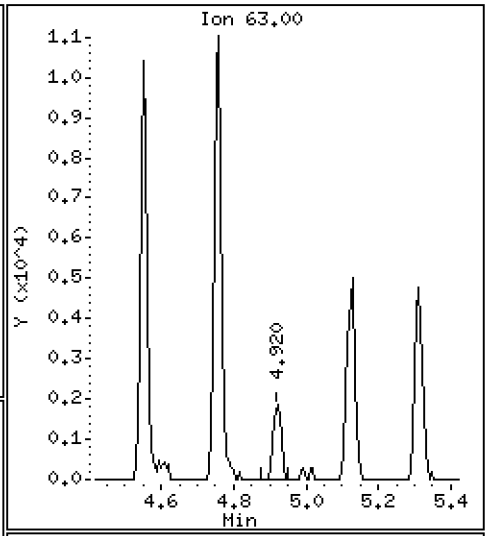
72 1,1-Dichloro-2-Propanone Concentration: 19.7526 ug/L

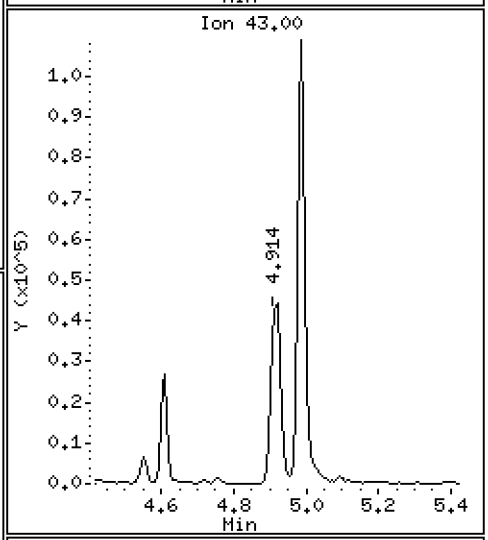


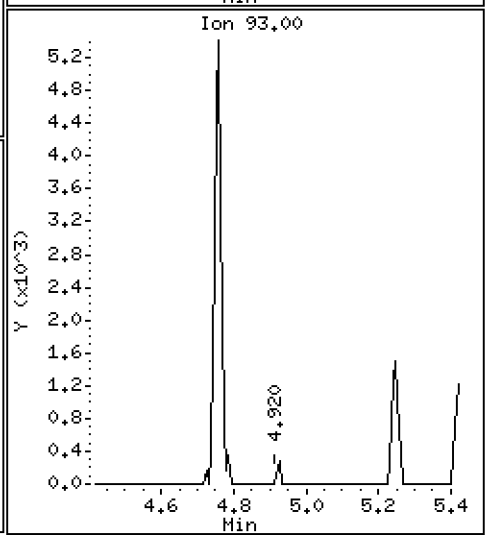












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 77

Date : 25-OCT-2016 00:08

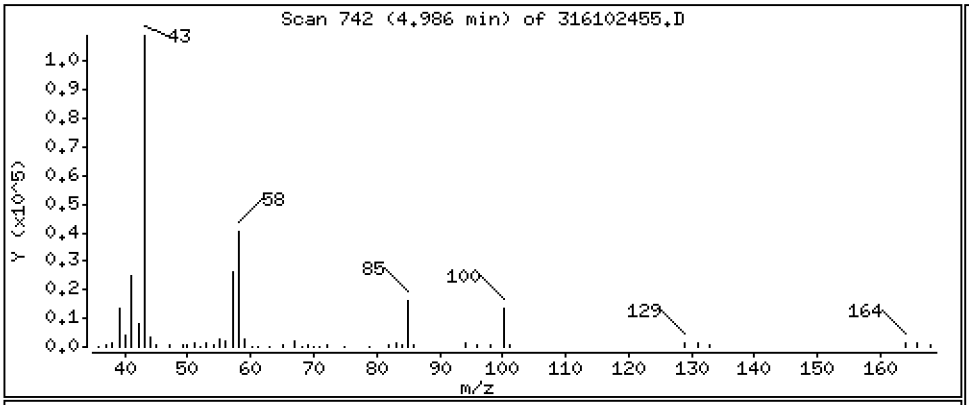
Client ID: Instrument: ms03.i

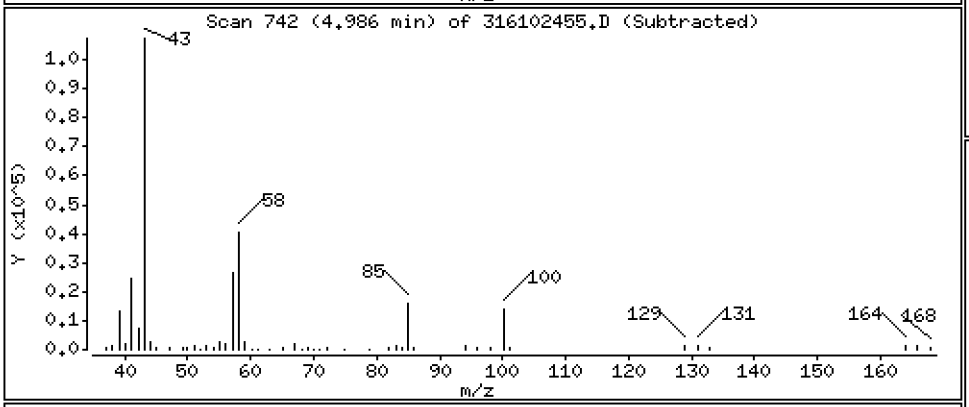
Sample Info: 1235;;1;1;2;;;

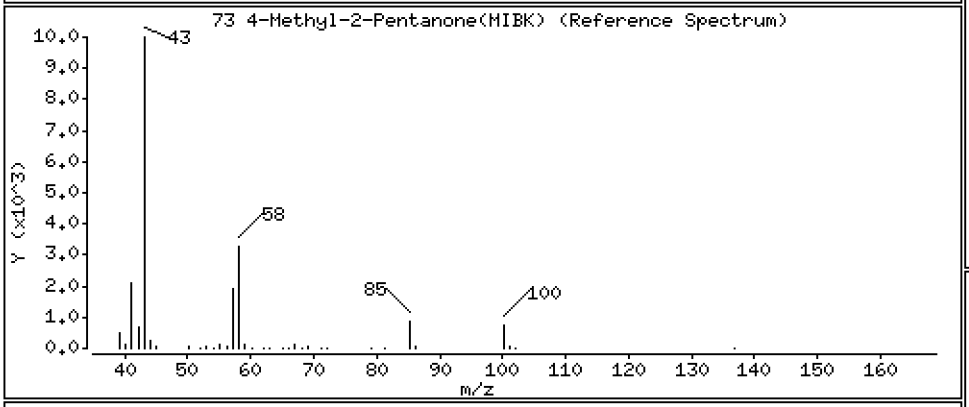
Purge Volume: 5.0 Operator: CJG

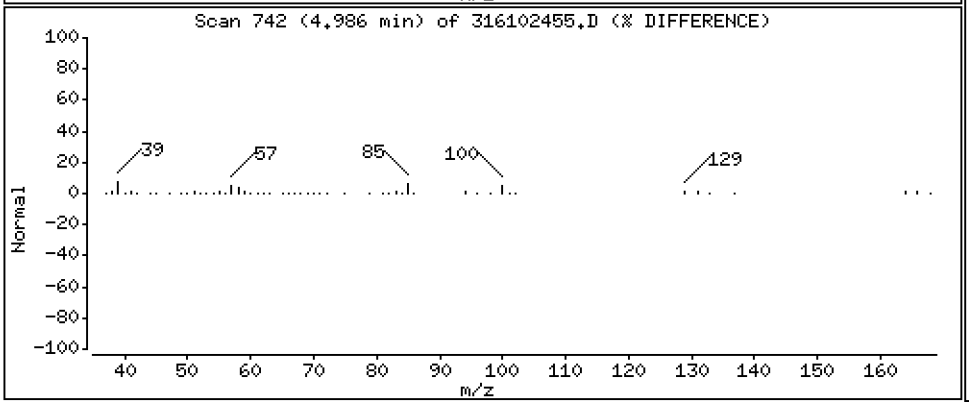
Column phase: DB-VRX Column diameter: 0.25

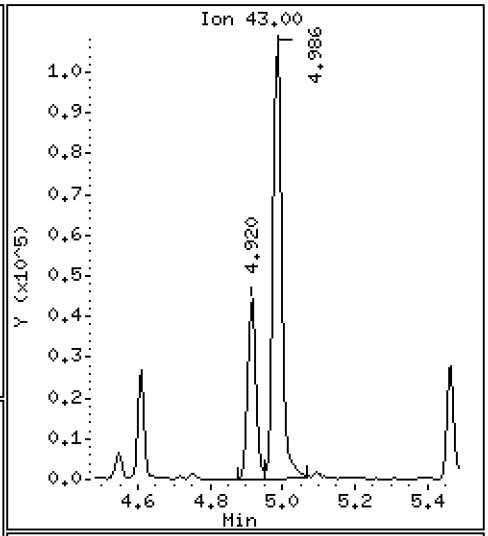
73 4-Methyl-2-Pentanone(MIBK) Concentration: 22.5913 ug/L

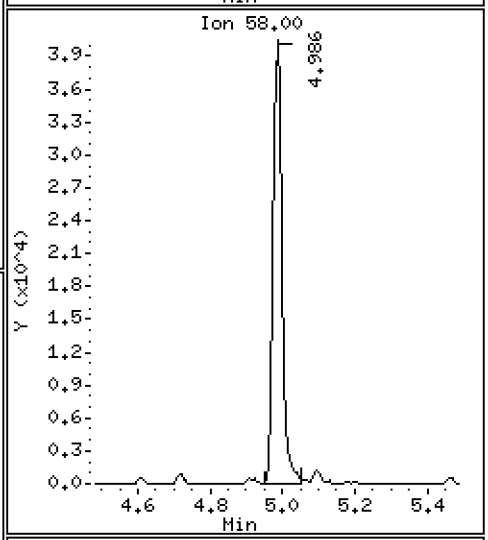


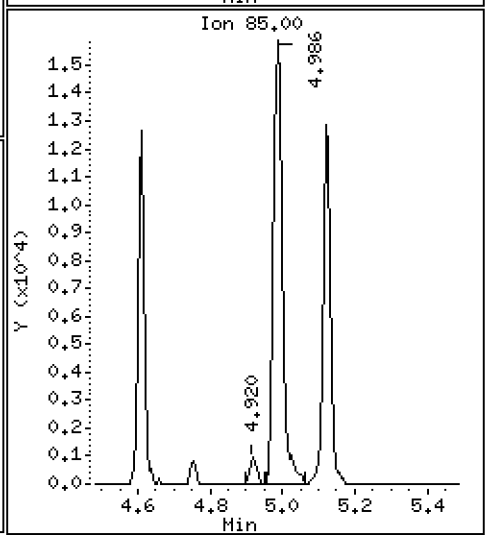












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 78

Date : 25-OCT-2016 00:08

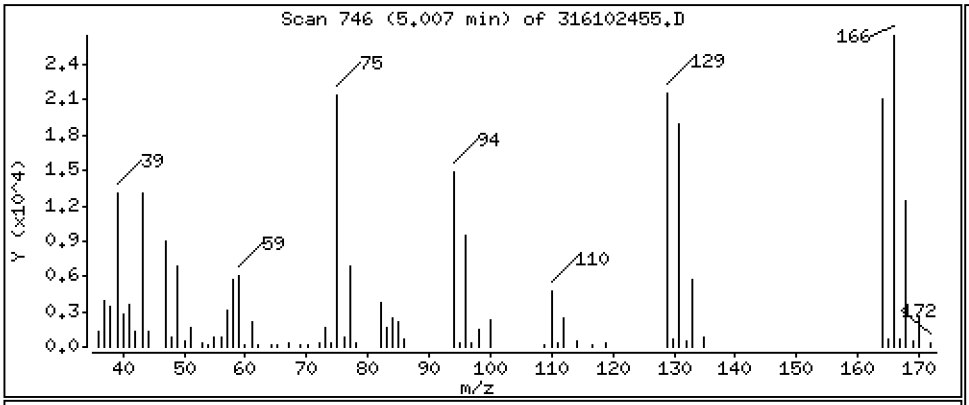
Client ID: Instrument: ms03.i

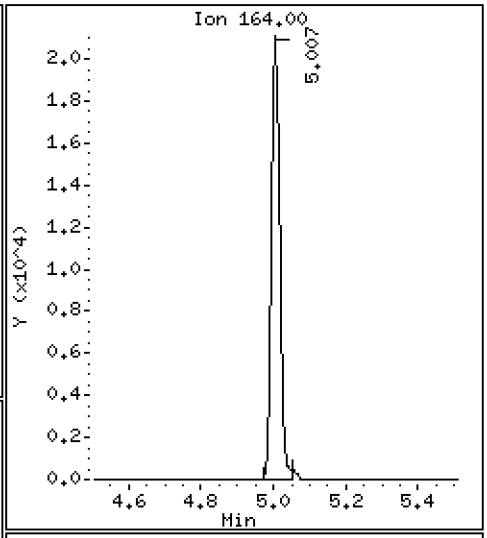
Sample Info: 1235;;1;1;2;;;

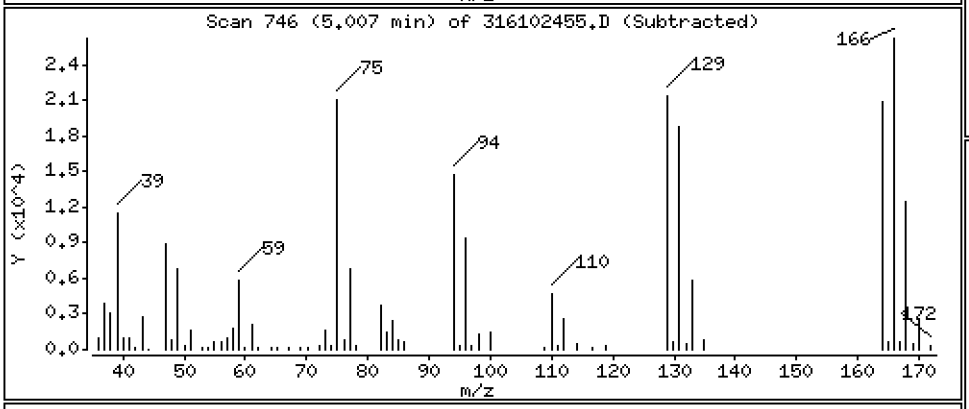
Purge Volume: 5.0 Operator: CJG

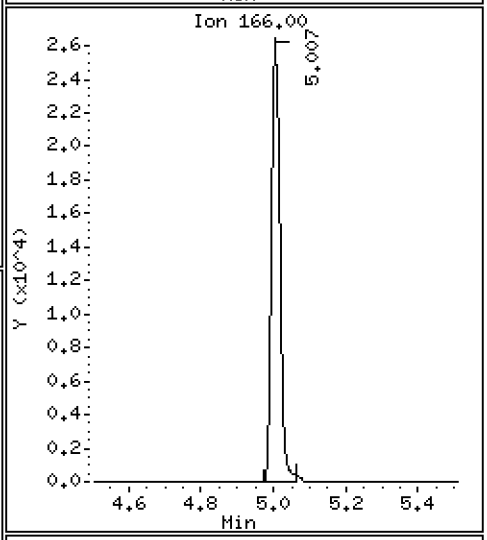
Column phase: DB-VRX Column diameter: 0.25

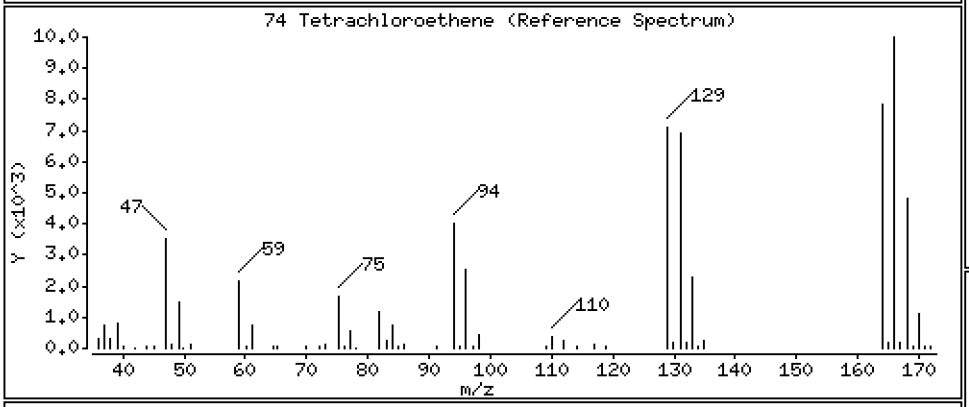
74 Tetrachloroethene Concentration: 6.40061 ug/L

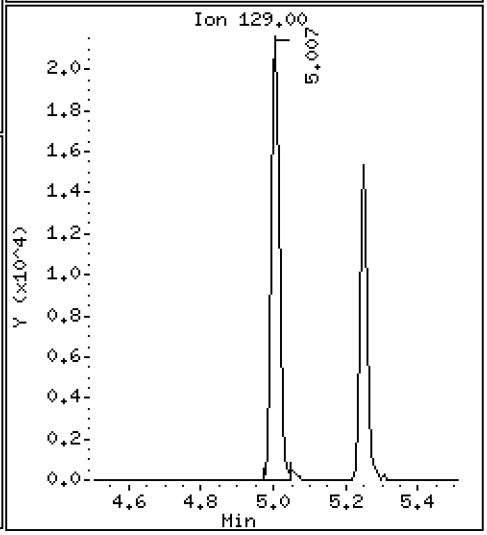


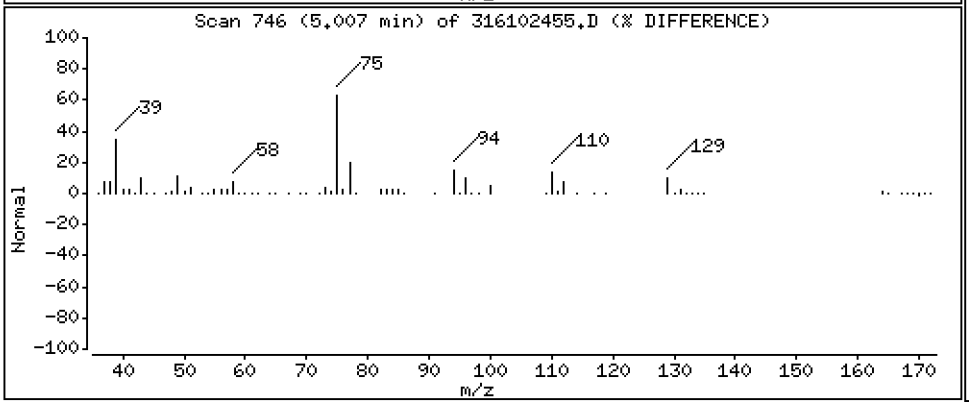












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 79

Date : 25-OCT-2016 00:08

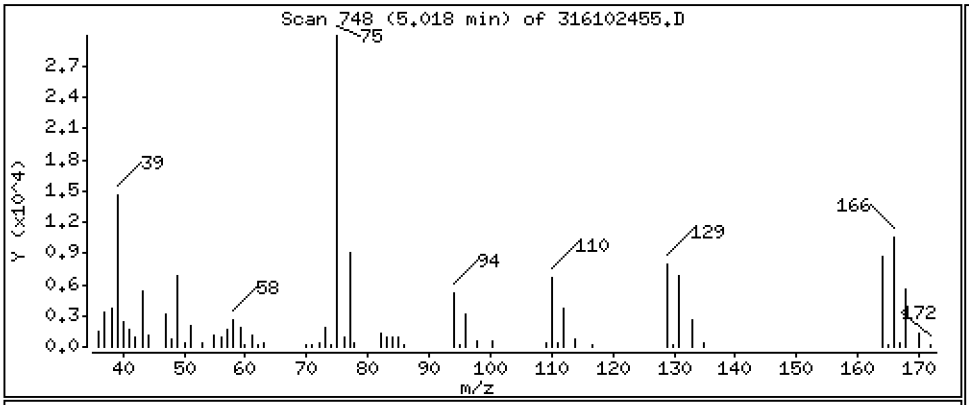
Client ID: Instrument: ms03.i

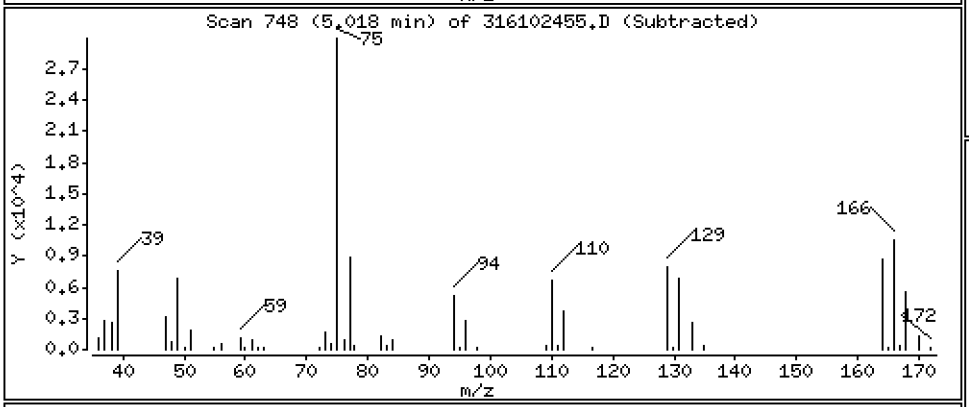
Sample Info: 1235;;1;1;2;;;

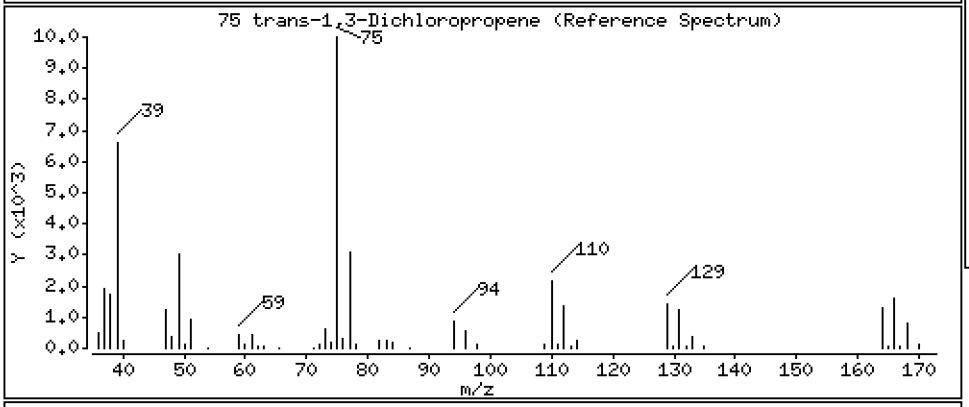
Purge Volume: 5.0 Operator: CJG

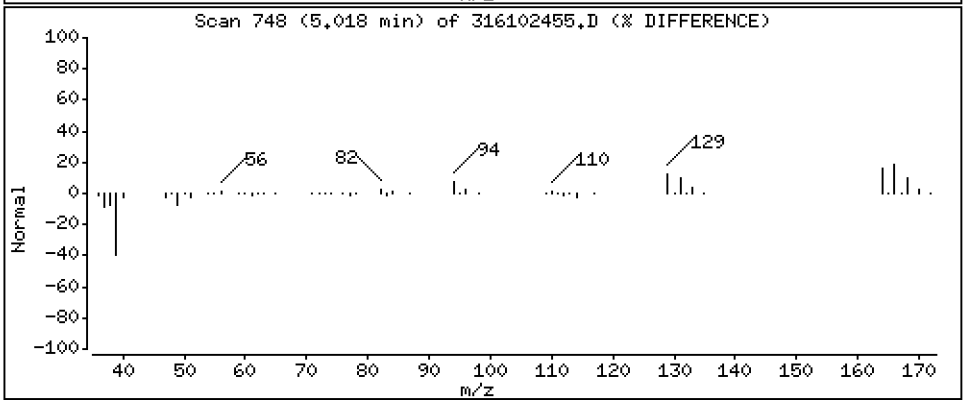
Column phase: DB-VRX Column diameter: 0.25

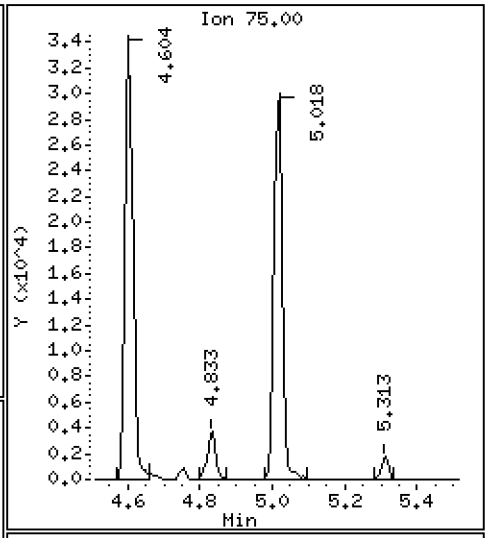
75 trans-1,3-Dichloropropene Concentration: 4.26371 ug/L

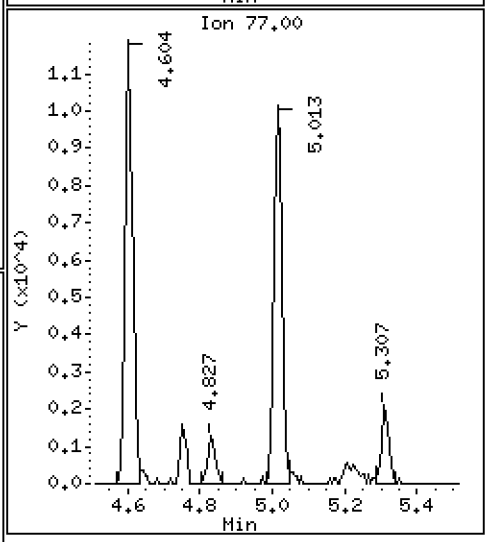












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 80

Date : 25-OCT-2016 00:08

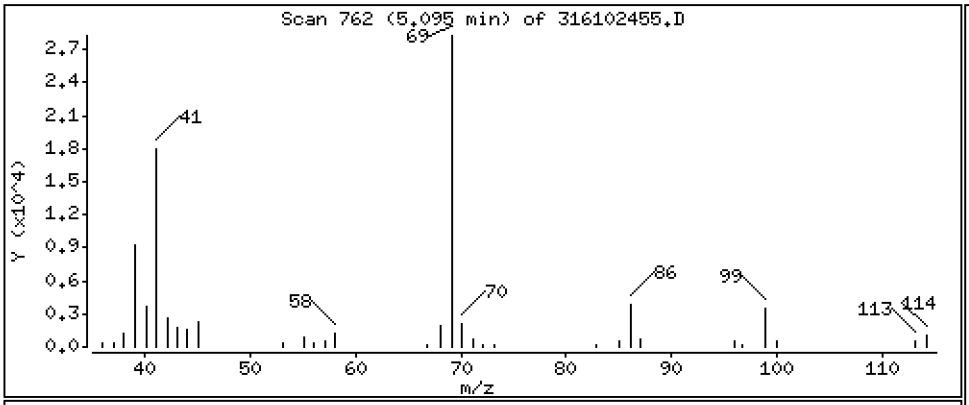
Client ID: Instrument: ms03.i

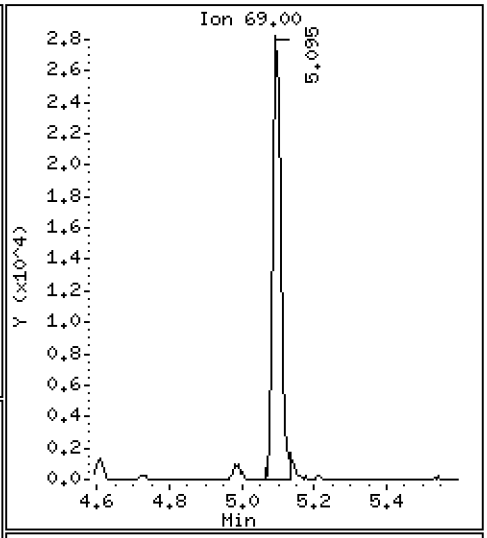
Sample Info: 1235;;1;1;2;;;

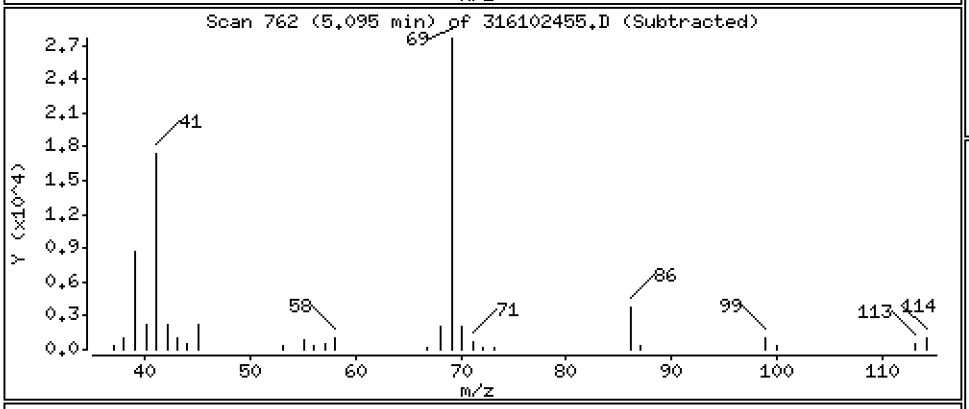
Purge Volume: 5.0 Operator: CJG

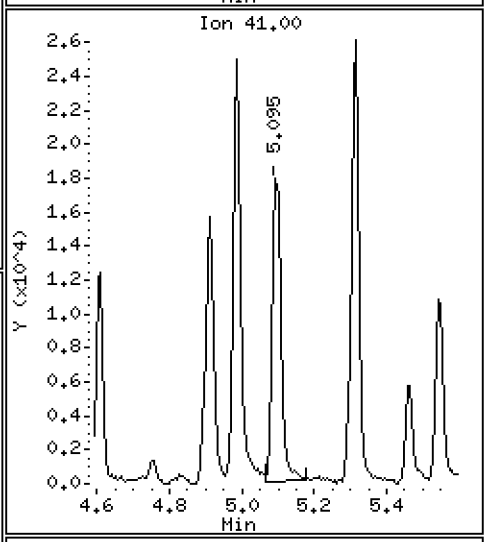
Column phase: DB-VRX Column diameter: 0.25

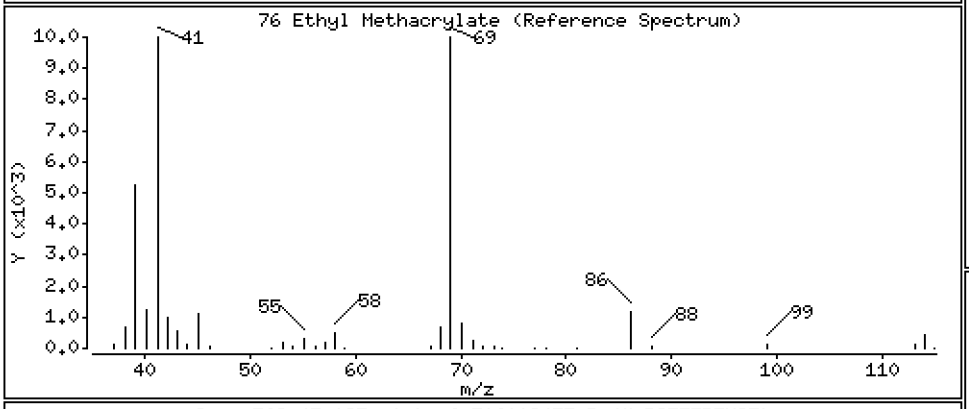
76 Ethyl Methacrylate Concentration: 4.02947 ug/L

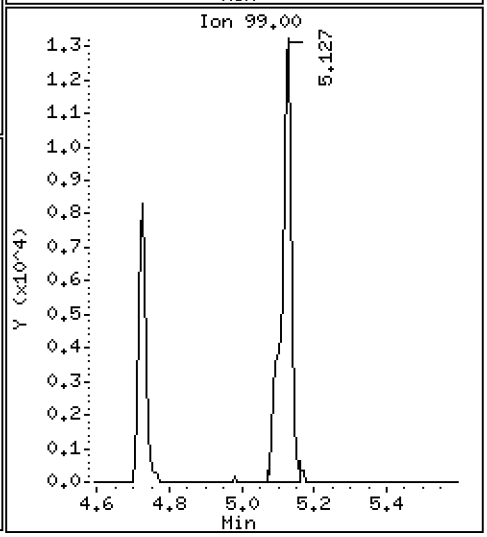


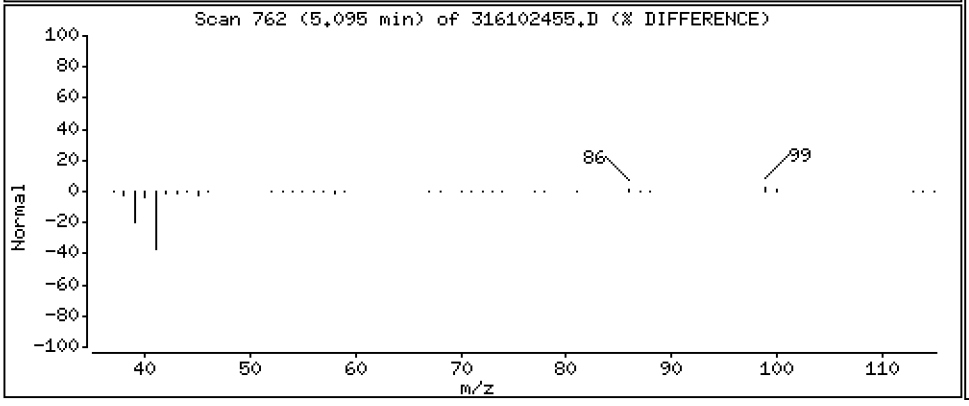












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 81

Date : 25-OCT-2016 00:08

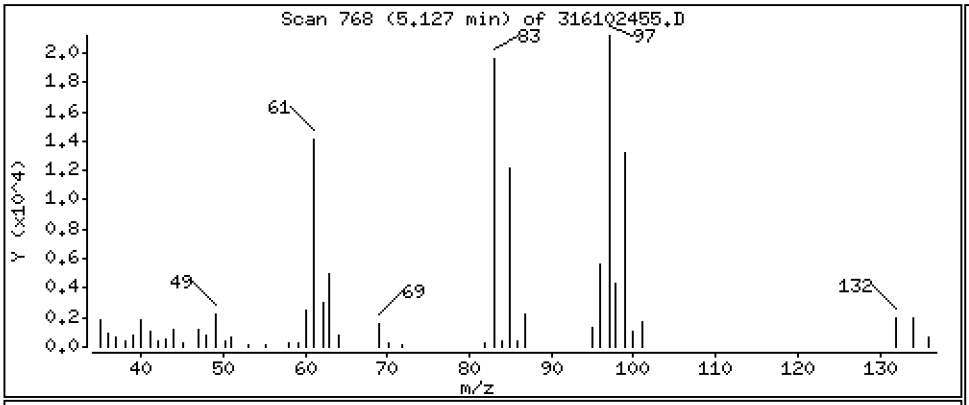
Client ID: Instrument: ms03.i

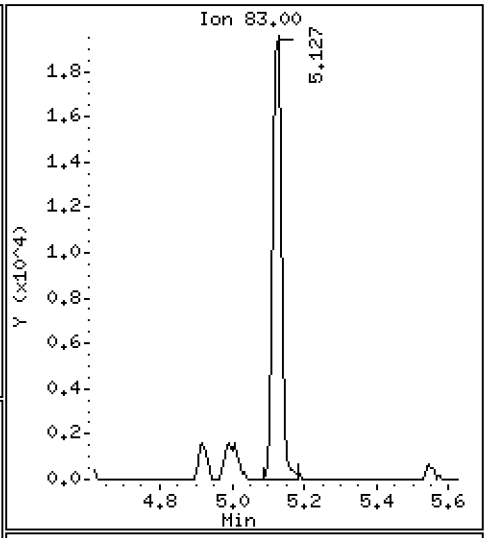
Sample Info: 1235;;1;1;2;;;

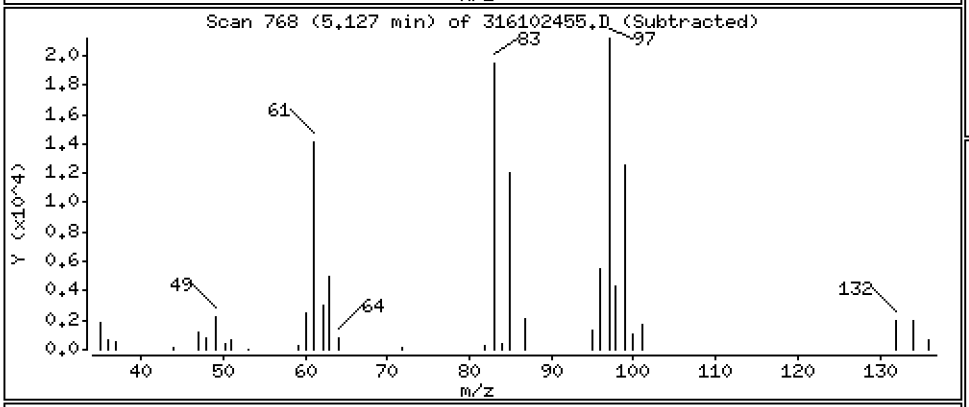
Purge Volume: 5.0 Operator: CJG

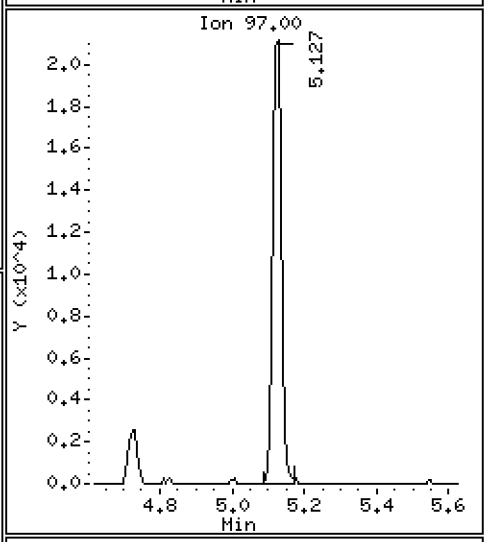
Column phase: DB-VRX Column diameter: 0.25

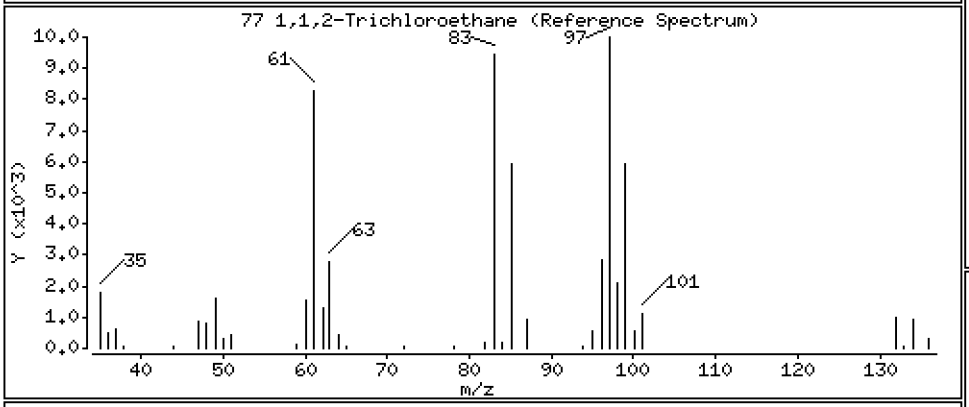
77 1,1,2-Trichloroethane Concentration: 5.39868 ug/L

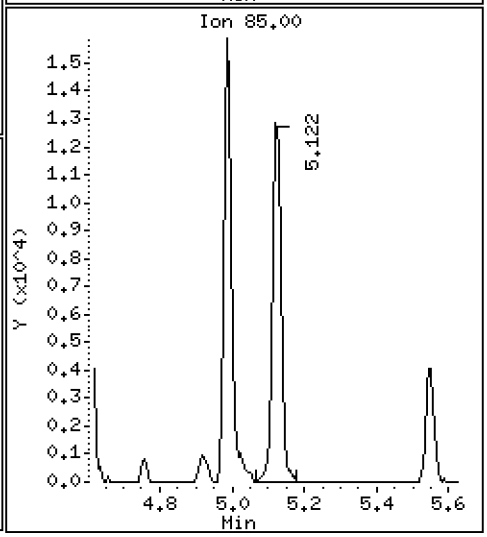


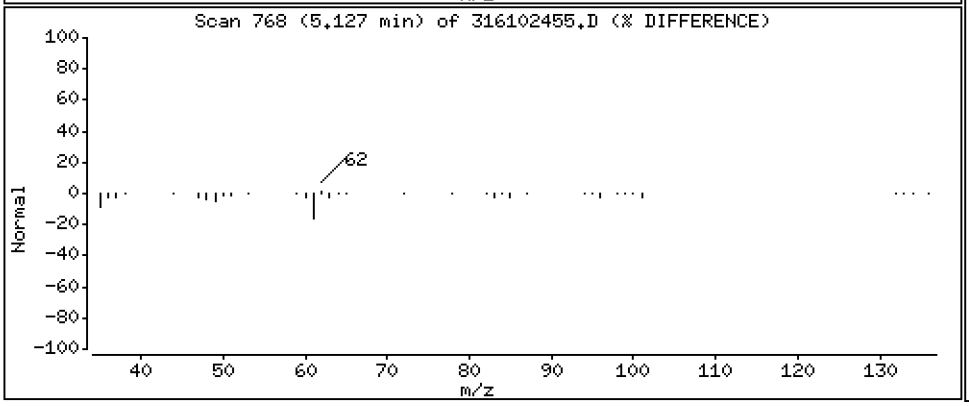












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 82

Date : 25-OCT-2016 00:08

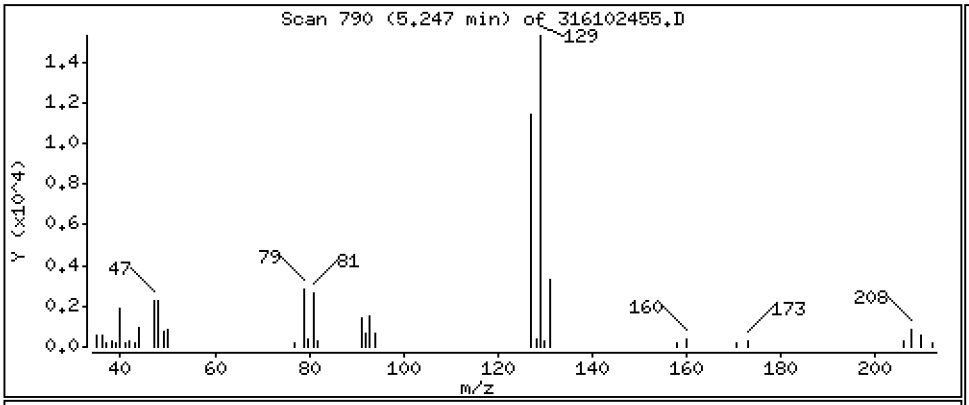
Client ID: Instrument: ms03.i

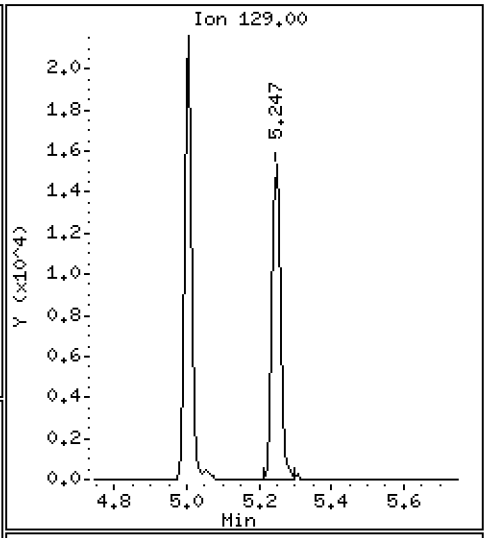
Sample Info: 1235;;1;1;2;;;

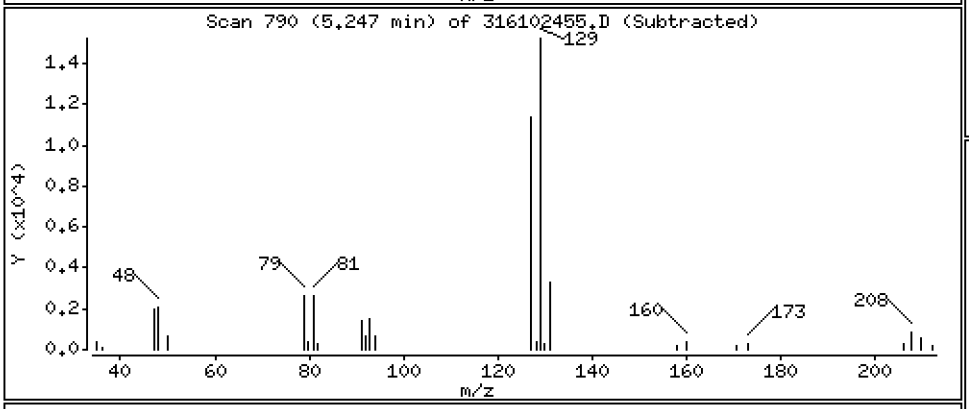
Purge Volume: 5.0 Operator: CJG

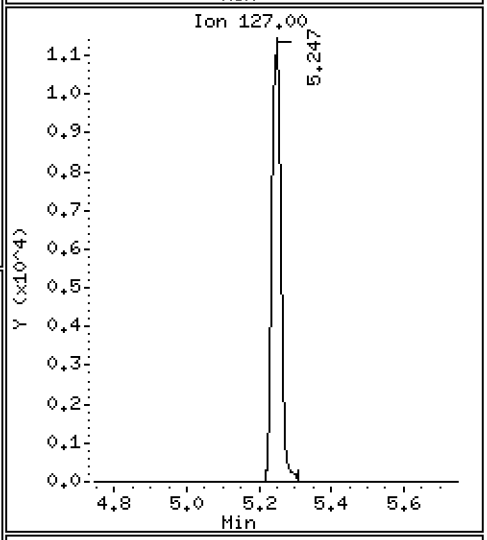
Column phase: DB-VRX Column diameter: 0.25

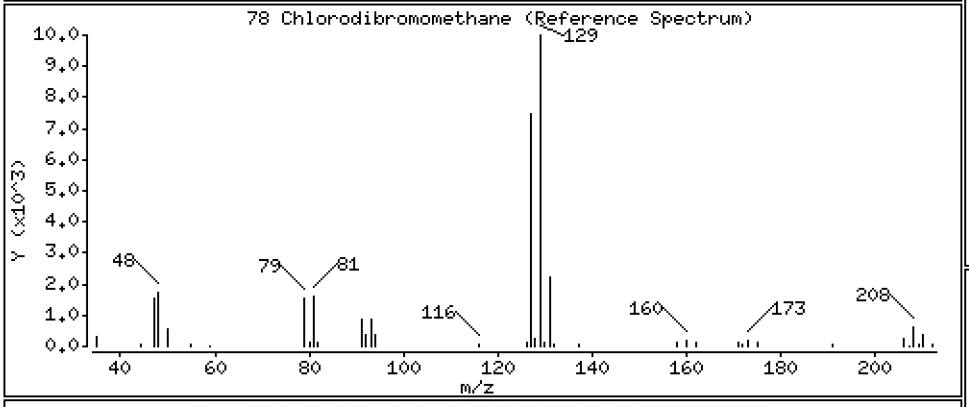
78 Chlorodibromomethane Concentration: 4.20668 ug/L

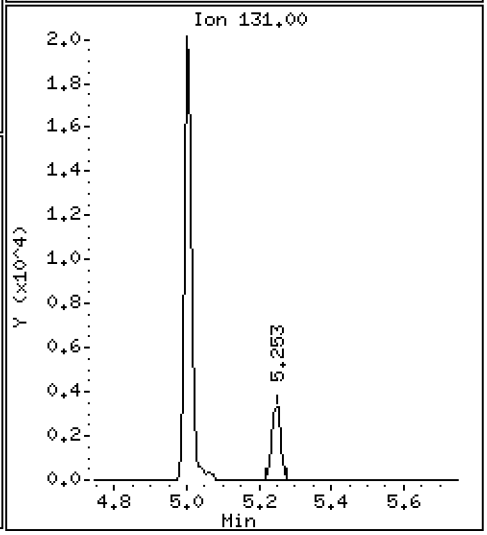


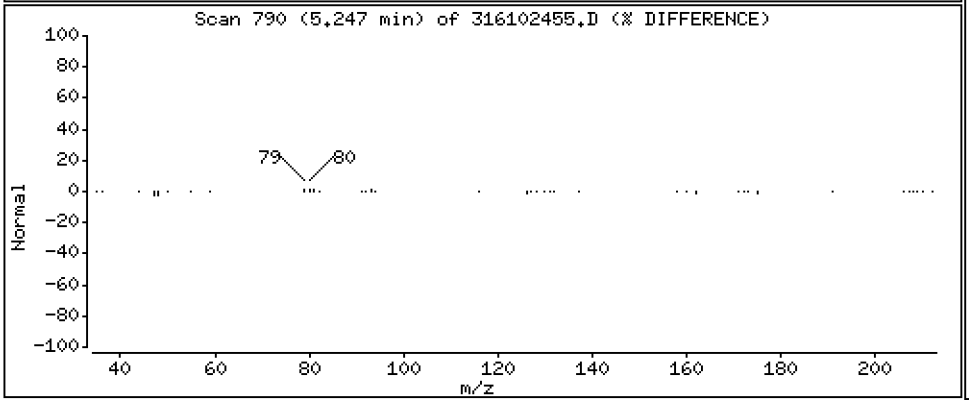












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 83

Date : 25-OCT-2016 00:08

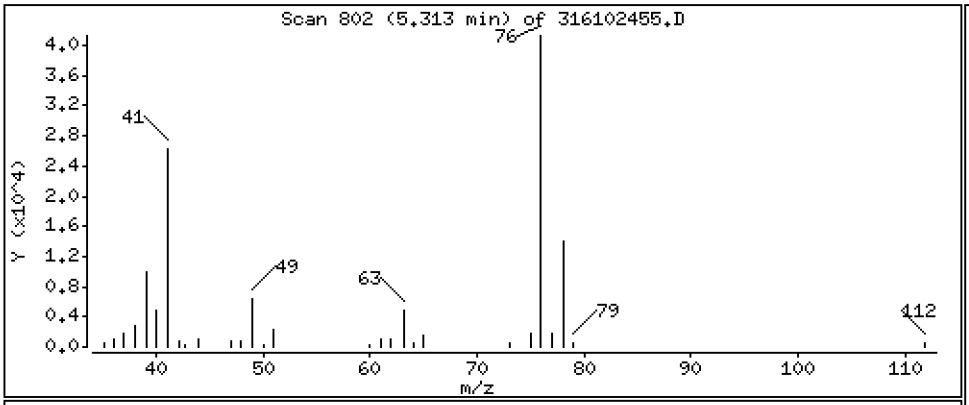
Client ID: Instrument: ms03.i

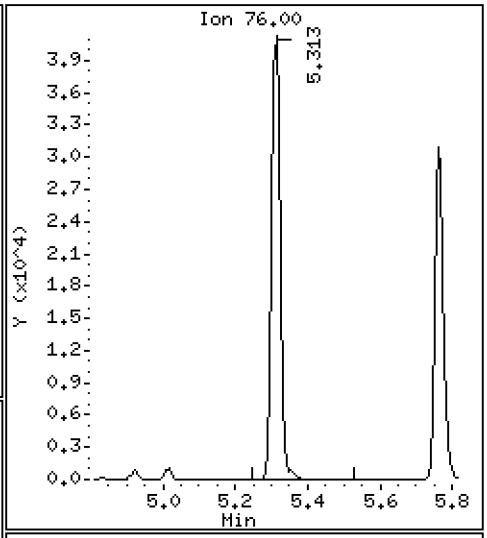
Sample Info: 1235;;1;1;2;;;

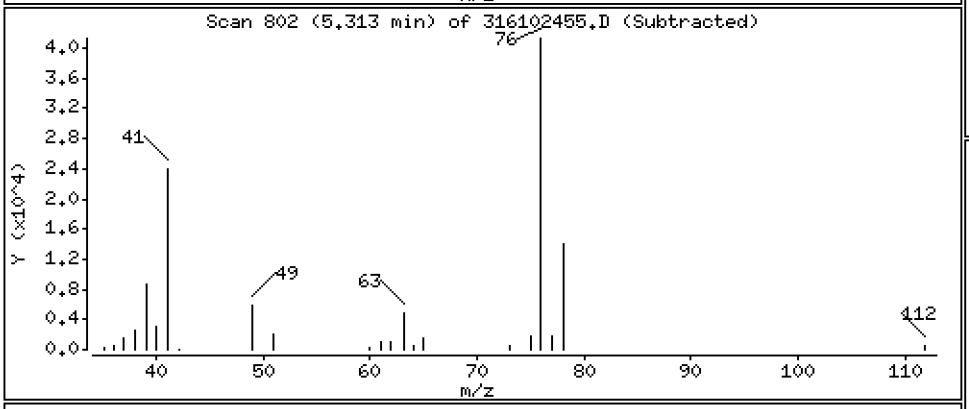
Purge Volume: 5.0 Operator: CJG

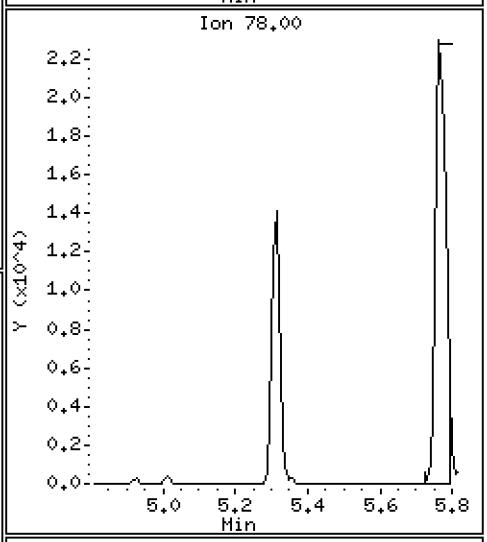
Column phase: DB-VRX Column diameter: 0.25

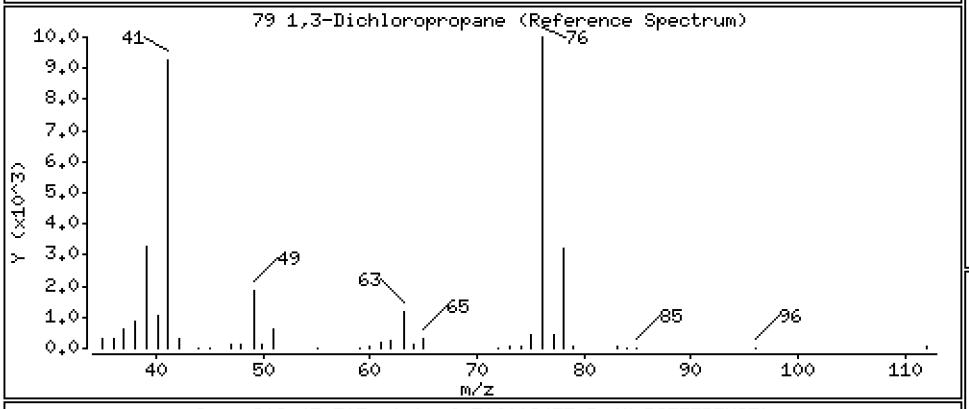
79 1,3-Dichloropropane Concentration: 5.28577 ug/L

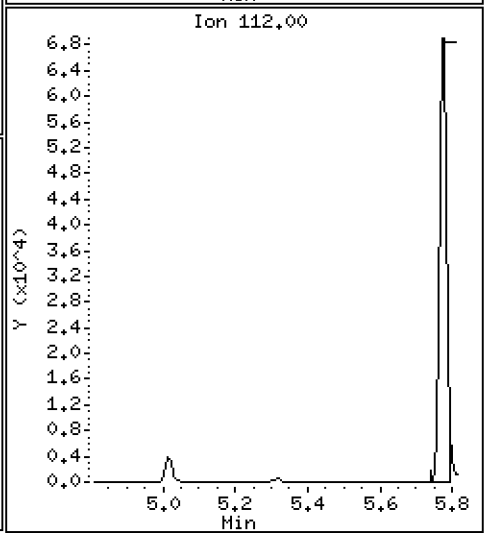


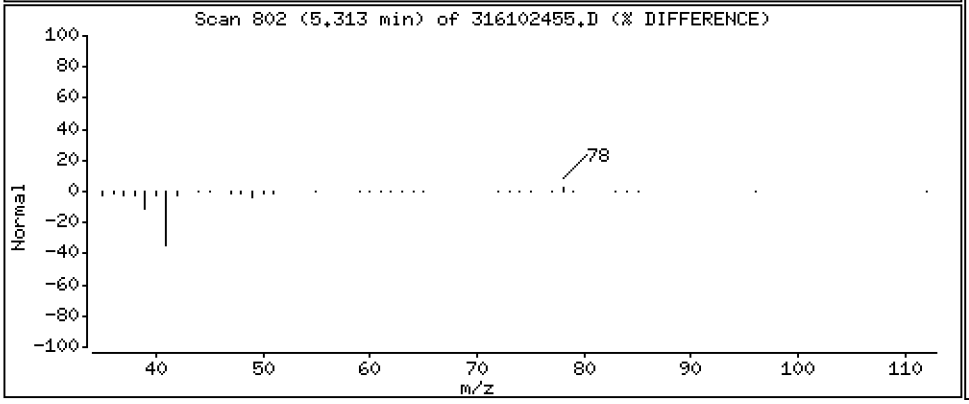












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 84

Date : 25-OCT-2016 00:08

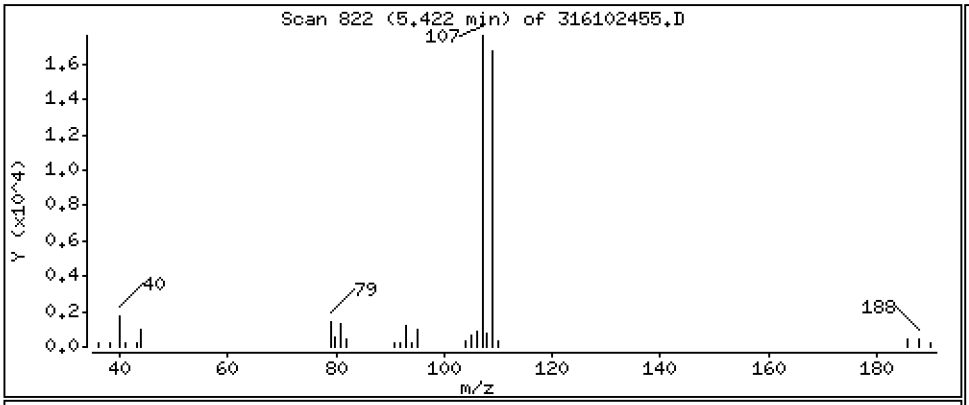
Client ID: Instrument: ms03.i

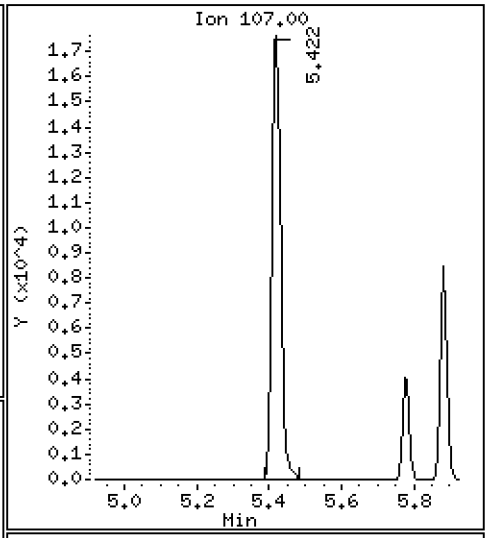
Sample Info: 1235;;1;1;2;;;

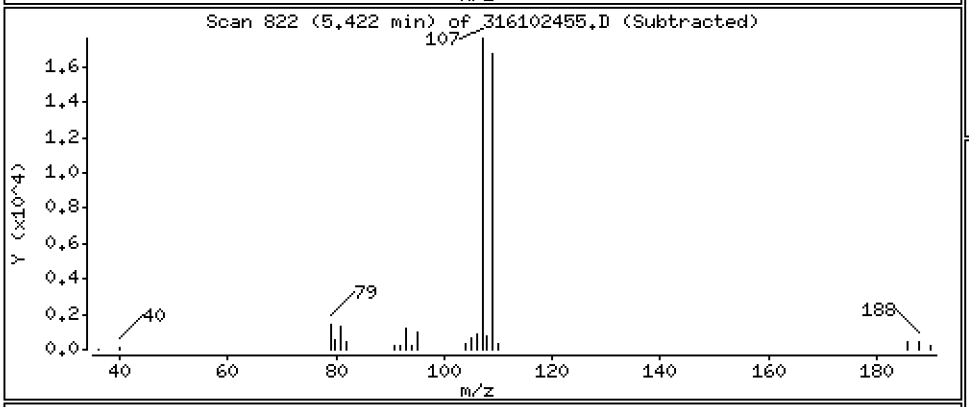
Purge Volume: 5.0 Operator: CJG

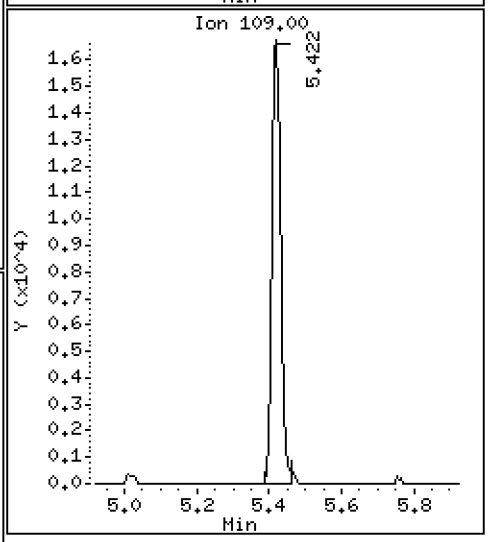
Column phase: DB-VRX Column diameter: 0.25

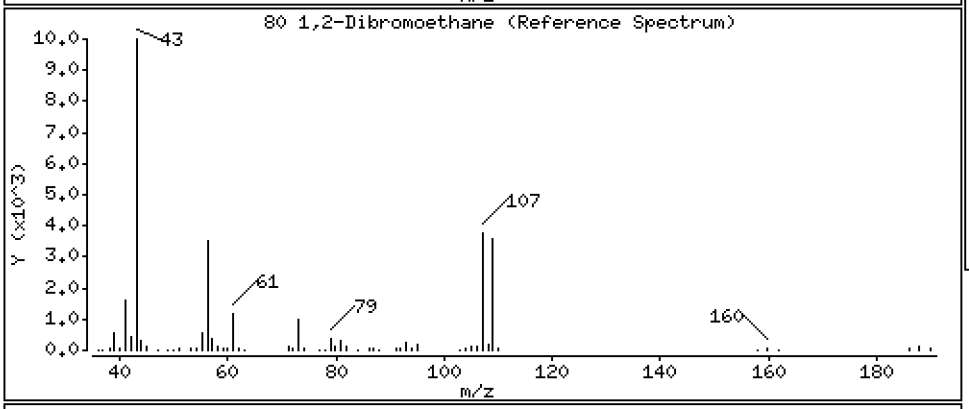
80 1,2-Dibromoethane Concentration: 4.83206 ug/L

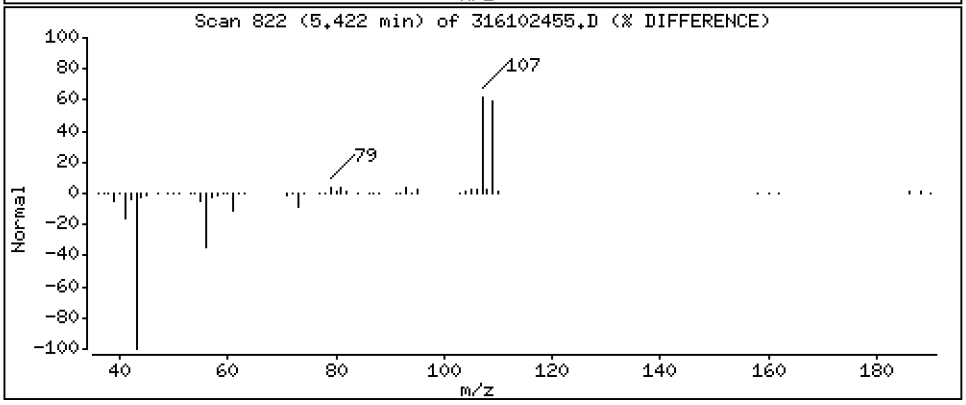












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 85

Date : 25-OCT-2016 00:08

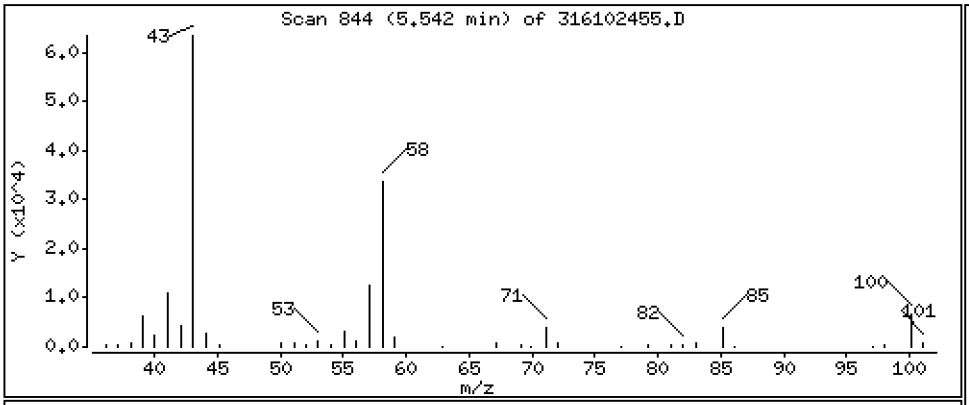
Client ID: Instrument: ms03.i

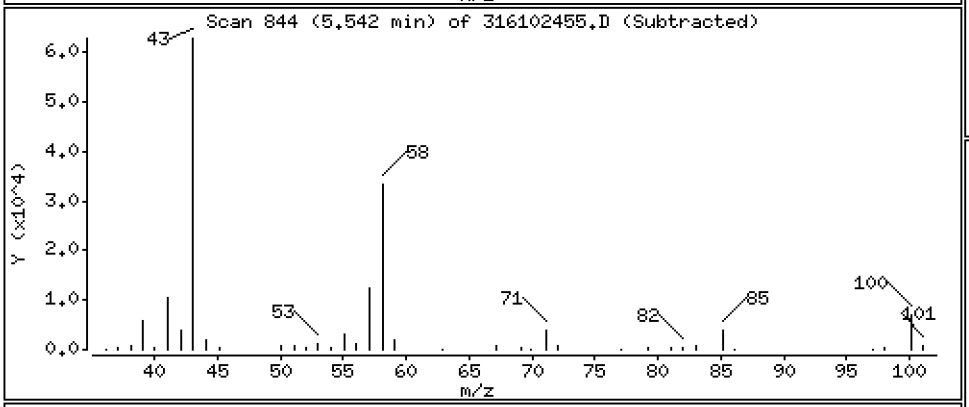
Sample Info: 1235;;1;1;2;;;

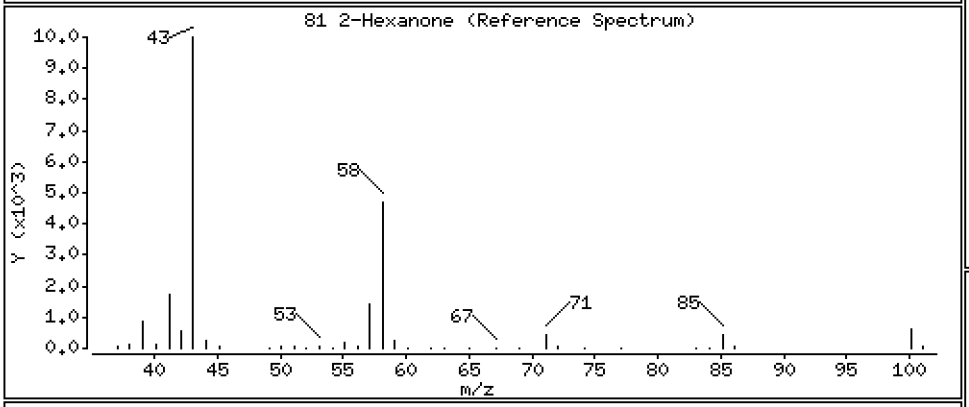
Purge Volume: 5.0 Operator: CJG

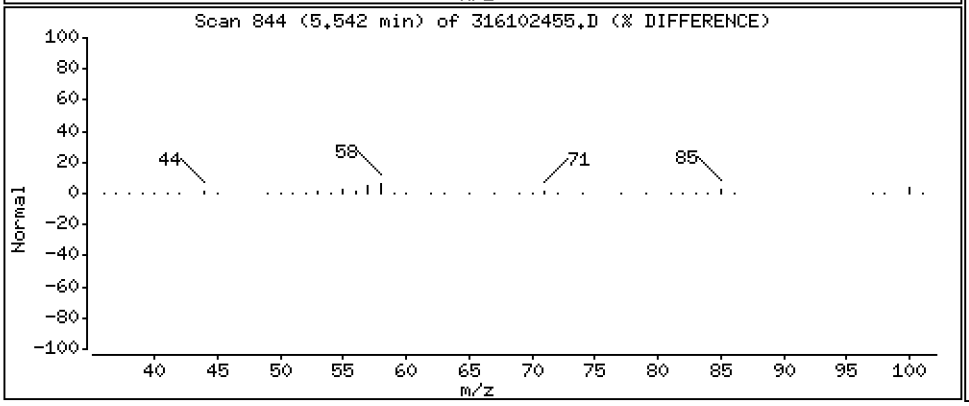
Column phase: DB-VRX Column diameter: 0.25

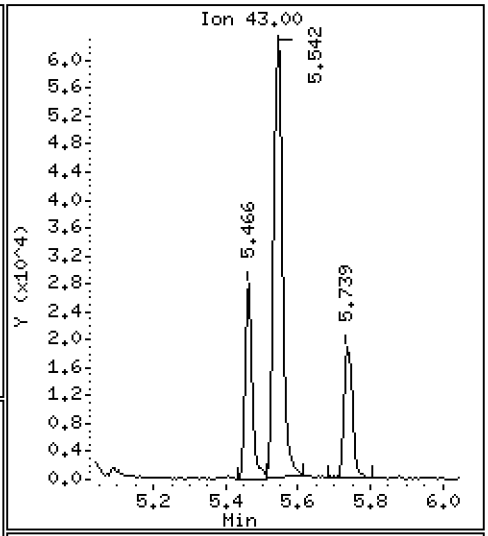
81 2-Hexanone Concentration: 20.5432 ug/L

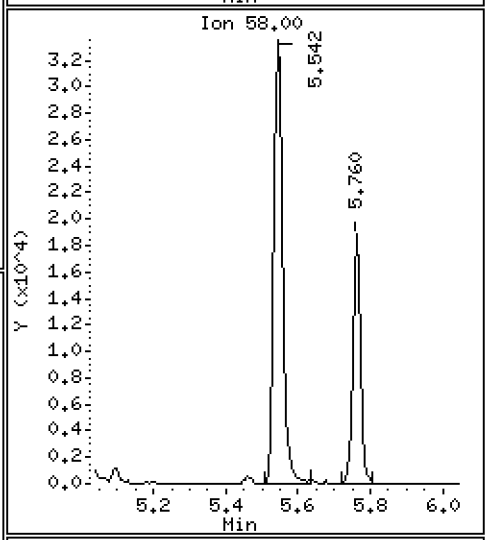


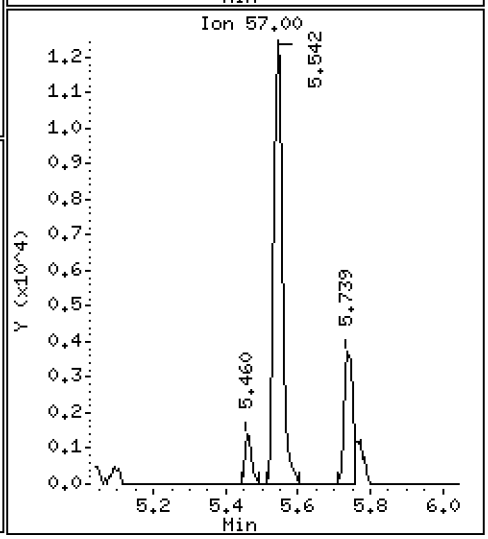












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 86

Date : 25-OCT-2016 00:08

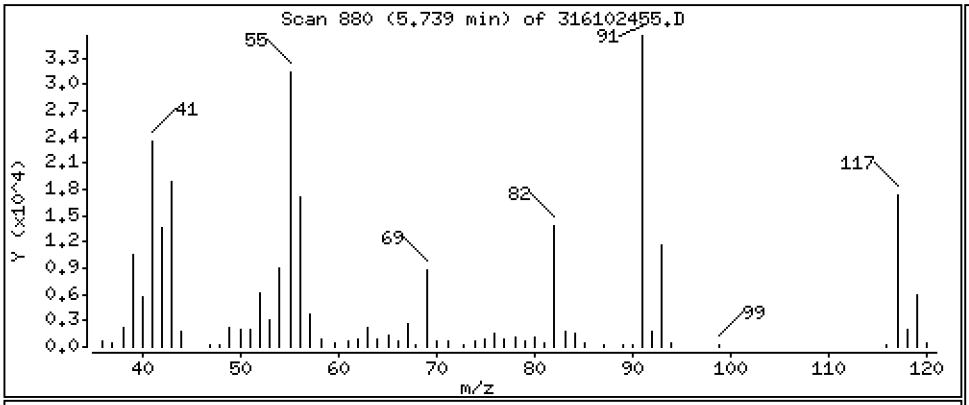
Client ID: Instrument: ms03.i

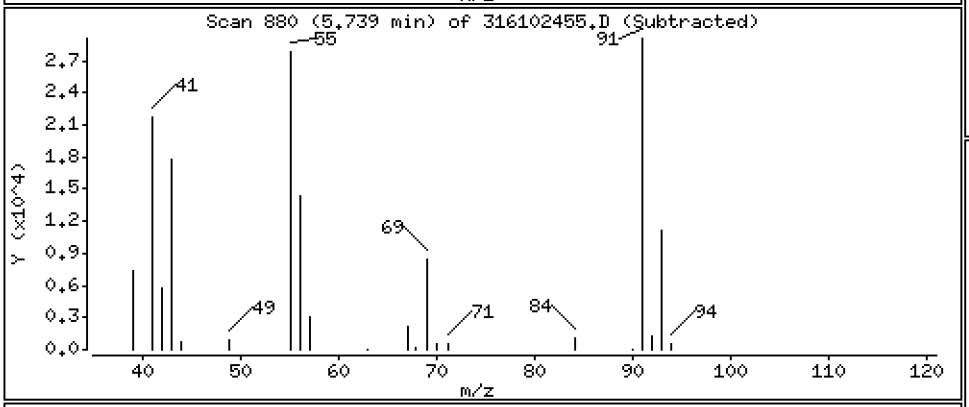
Sample Info: 1235;;1;1;2;;;

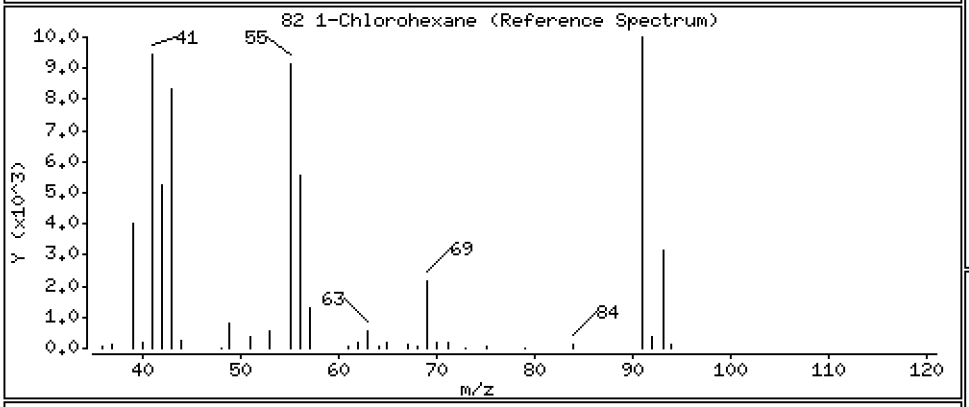
Purge Volume: 5.0 Operator: CJG

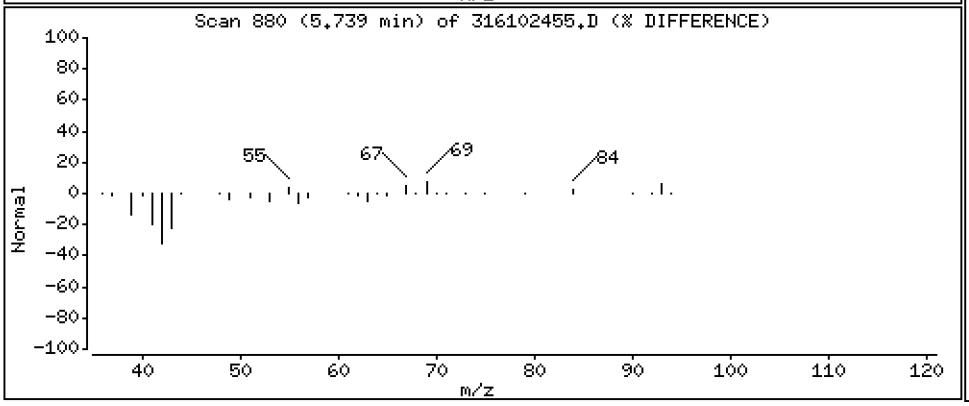
Column phase: DB-VRX Column diameter: 0.25

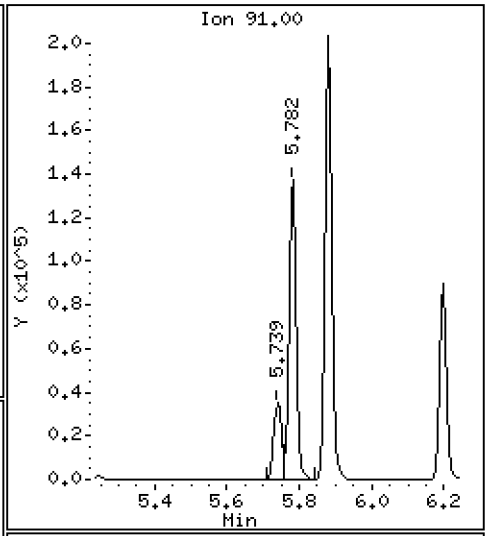
82 1-Chlorohexane Concentration: 5.07295 ug/L

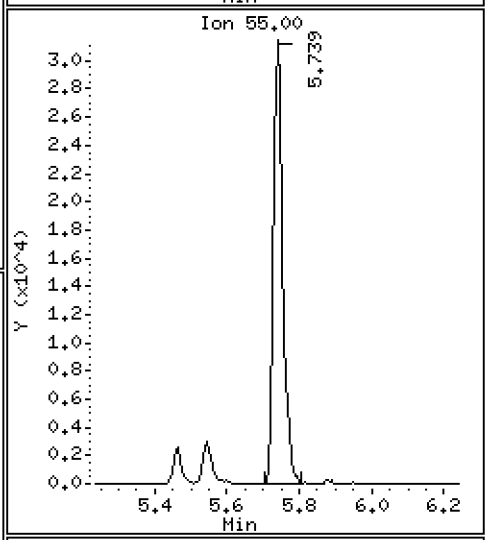


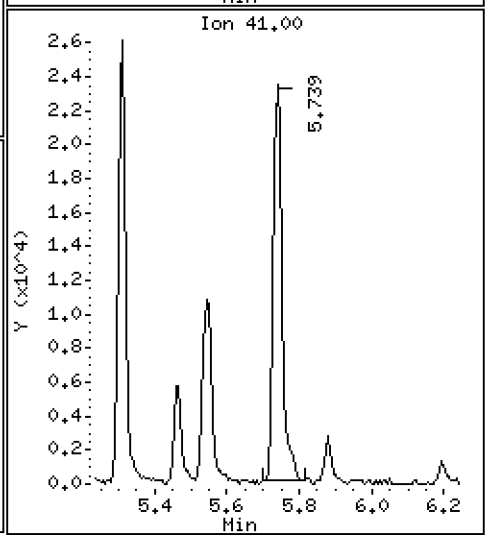












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 87

Date : 25-OCT-2016 00:08

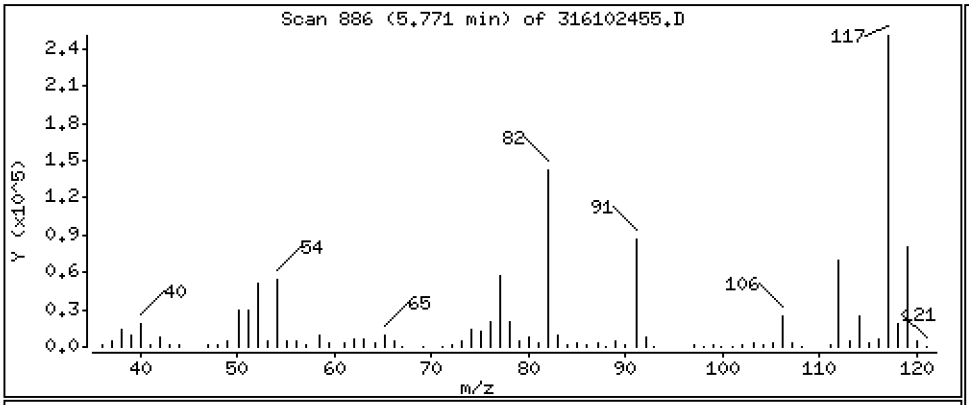
Client ID: Instrument: ms03.i

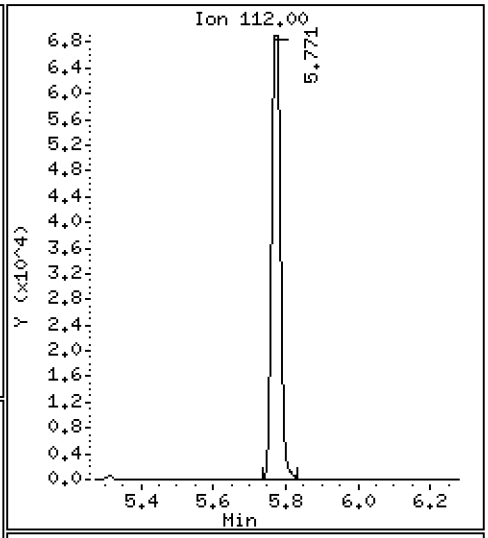
Sample Info: 1235;;1;1;2;;;

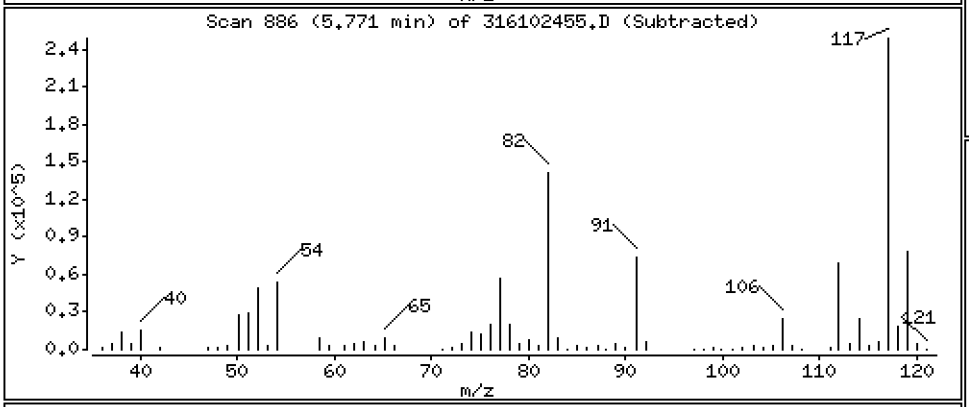
Purge Volume: 5.0 Operator: CJG

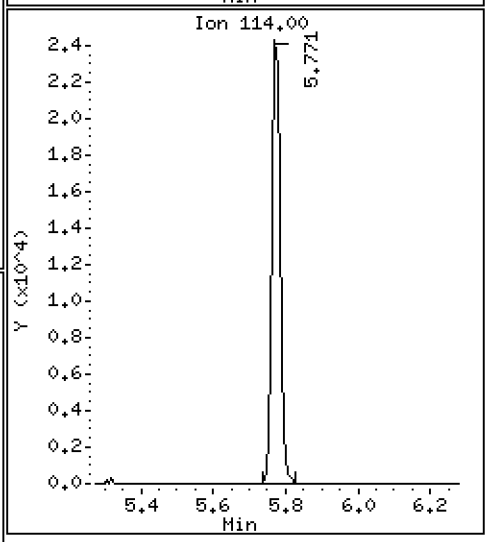
Column phase: DB-VRX Column diameter: 0.25

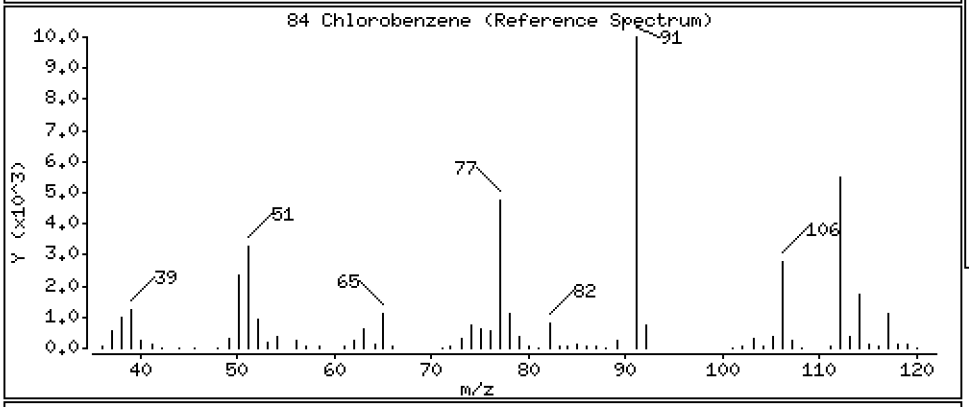
84 Chlorobenzene Concentration: 5.67543 ug/L

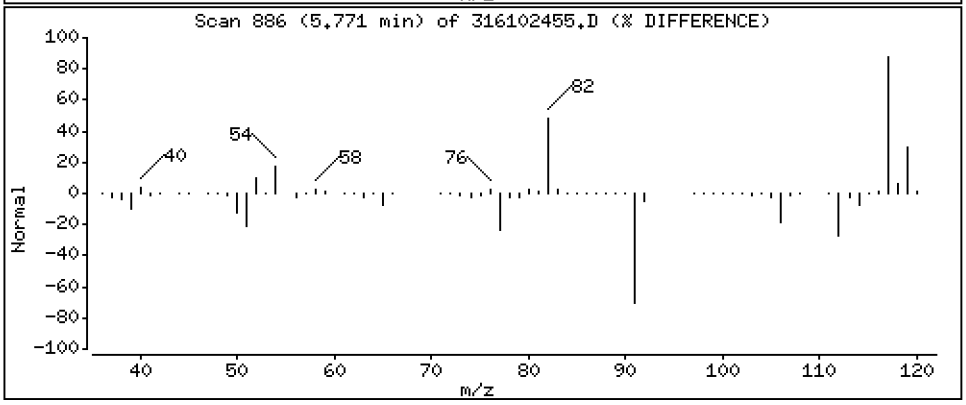












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 88

Date : 25-OCT-2016 00:08

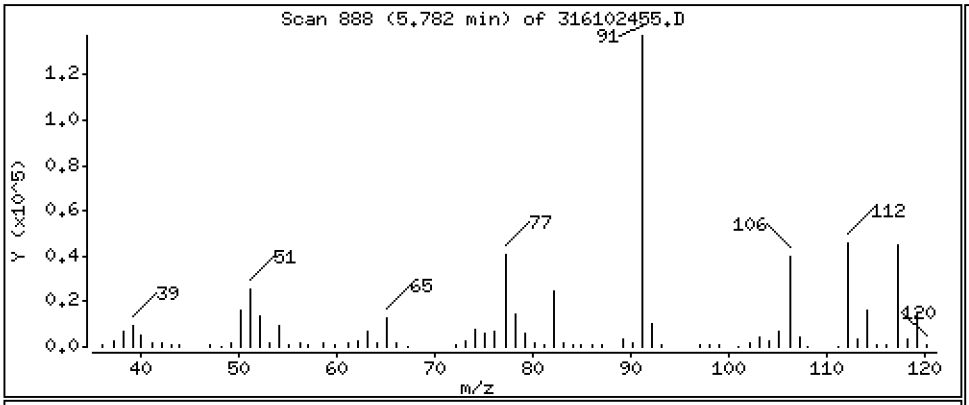
Client ID: Instrument: ms03.i

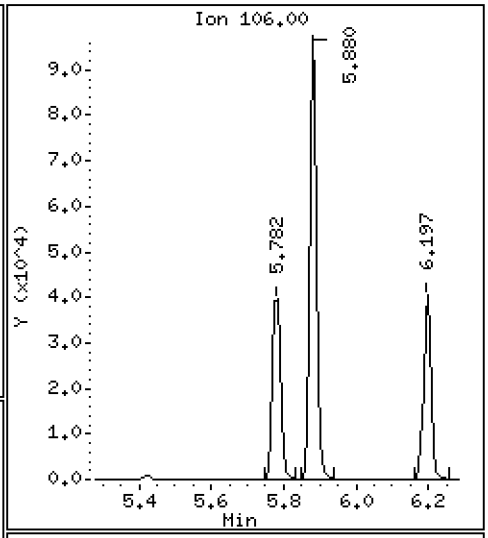
Sample Info: 1235;;1;1;2;;;

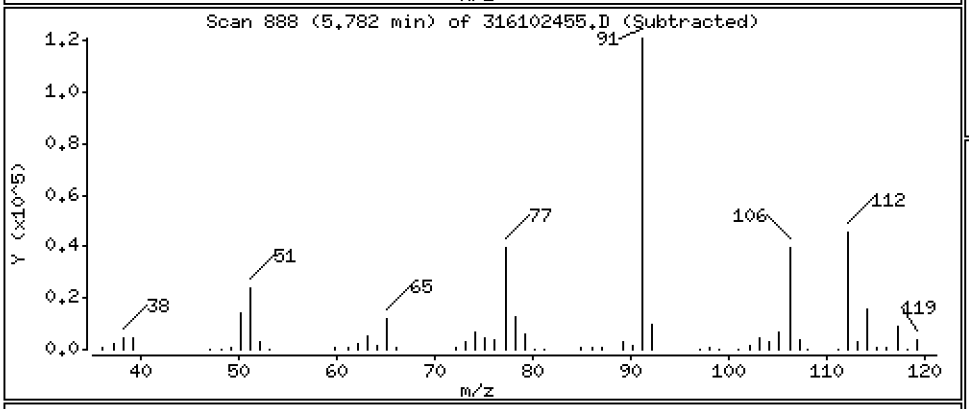
Purge Volume: 5.0 Operator: CJG

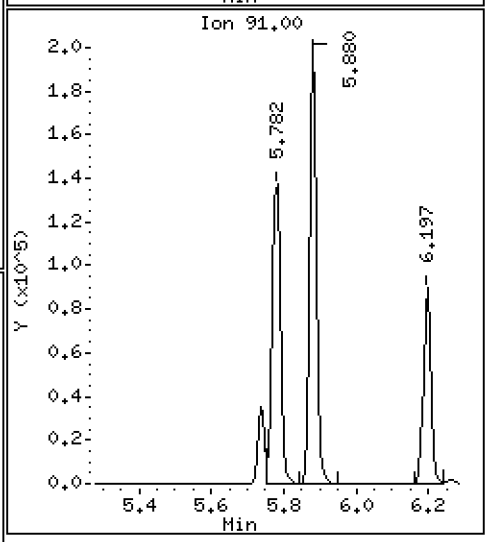
Column phase: DB-VRX Column diameter: 0.25

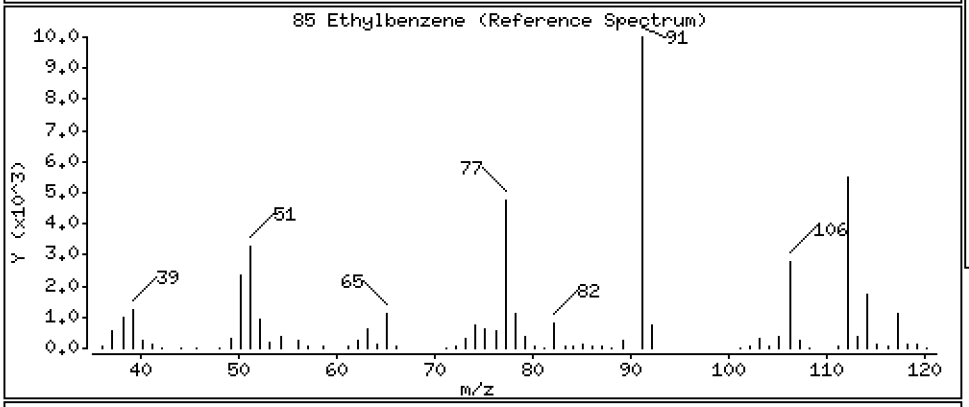
85 Ethylbenzene Concentration: 5.72338 ug/L

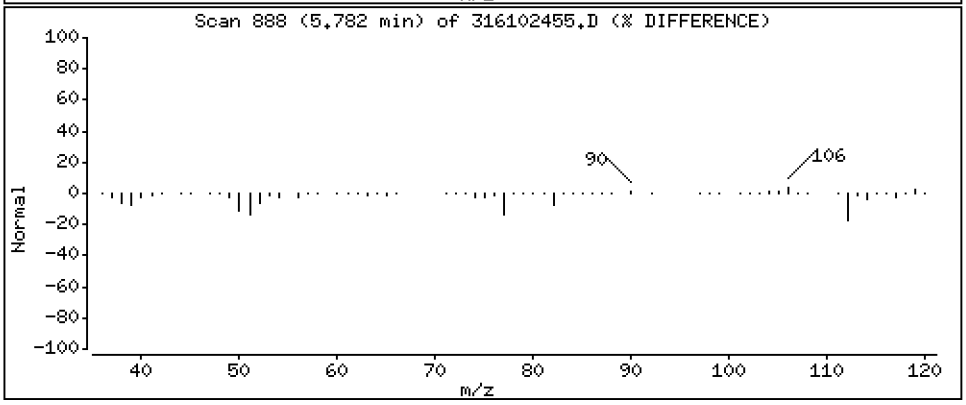












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 89

Date : 25-OCT-2016 00:08

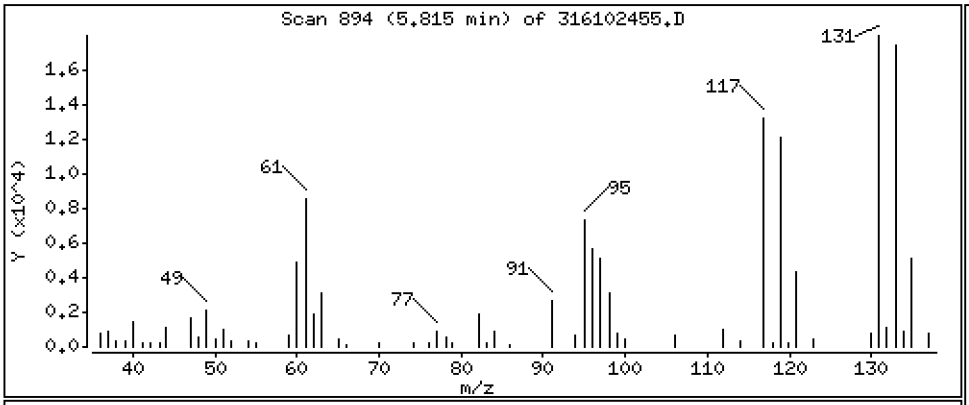
Client ID: Instrument: ms03.i

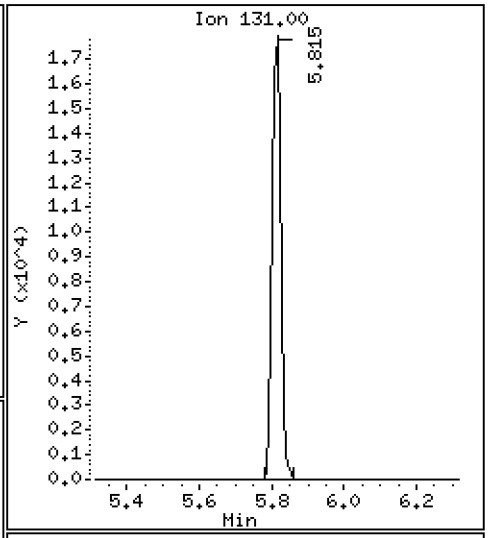
Sample Info: 1235;;1;1;2;;;

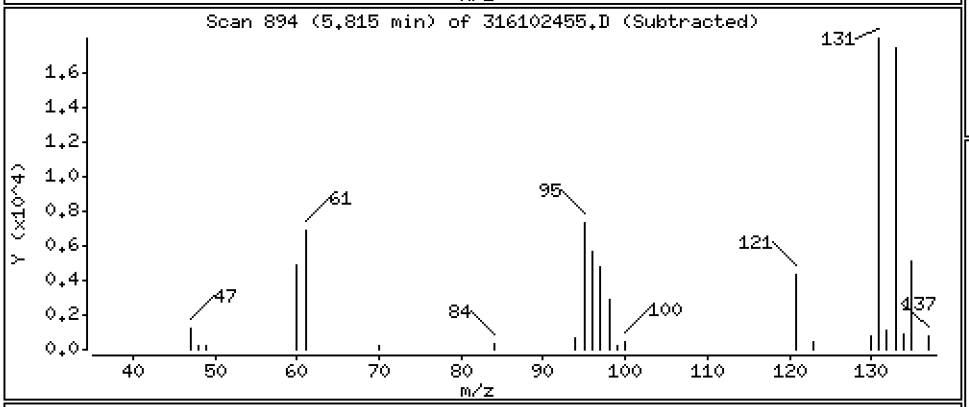
Purge Volume: 5.0 Operator: CJG

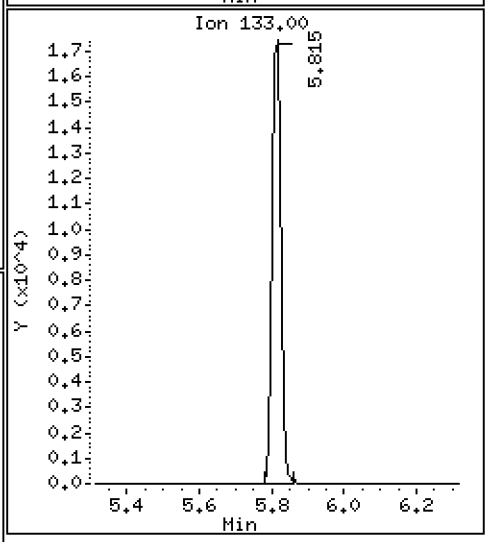
Column phase: DB-VRX Column diameter: 0.25

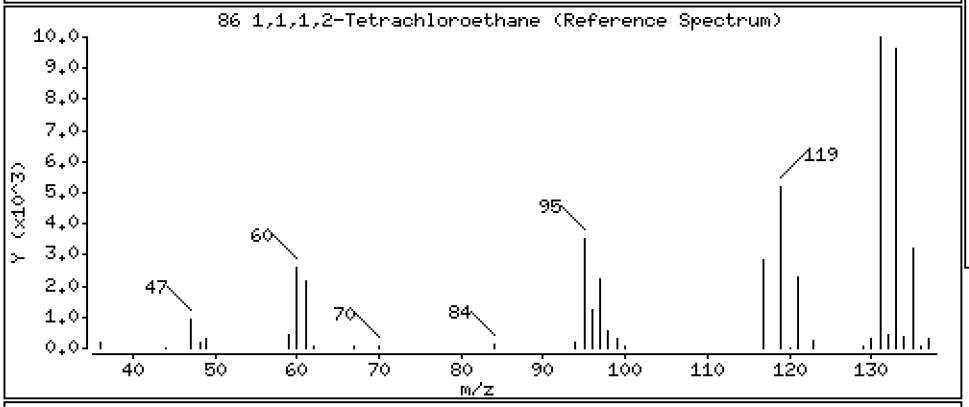
86 1,1,1,2-Tetrachloroethane Concentration: 4.98751 ug/L

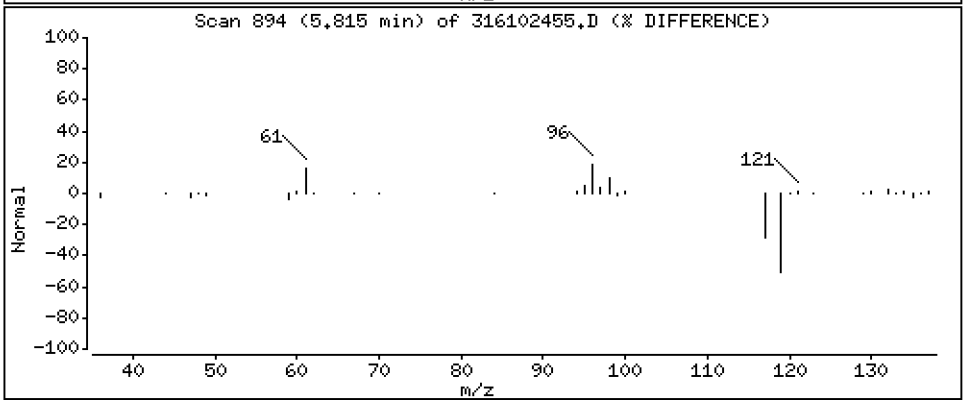












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 90

Date : 25-OCT-2016 00:08

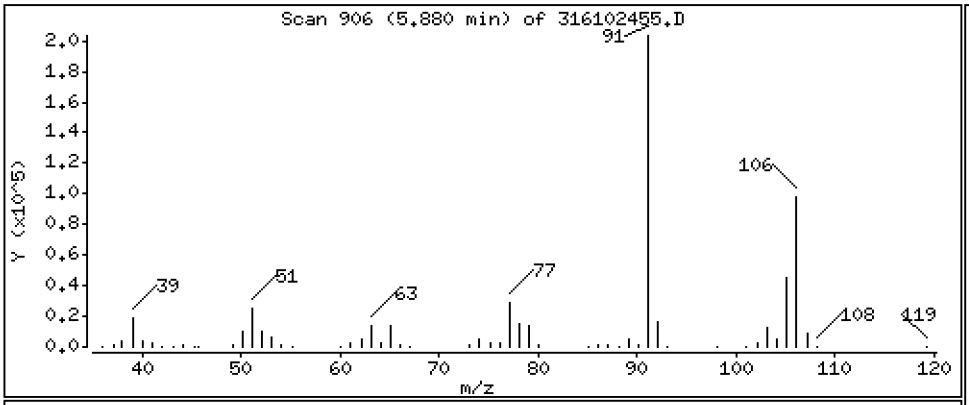
Client ID: Instrument: ms03.i

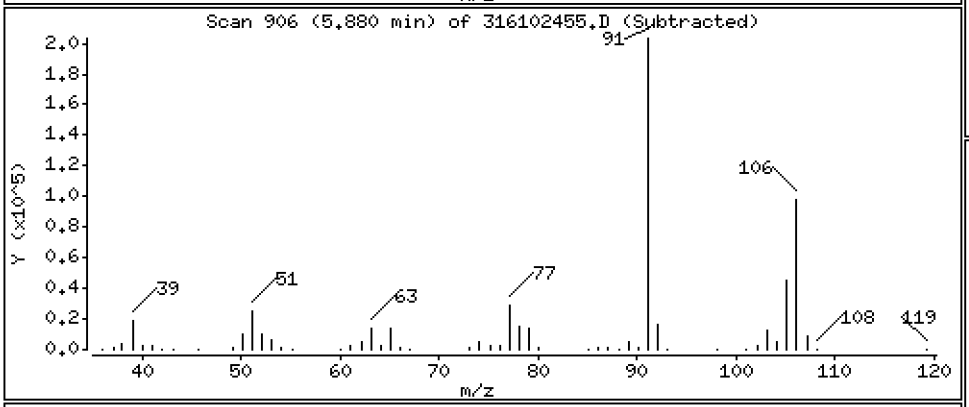
Sample Info: 1235;;1;1;2;;;

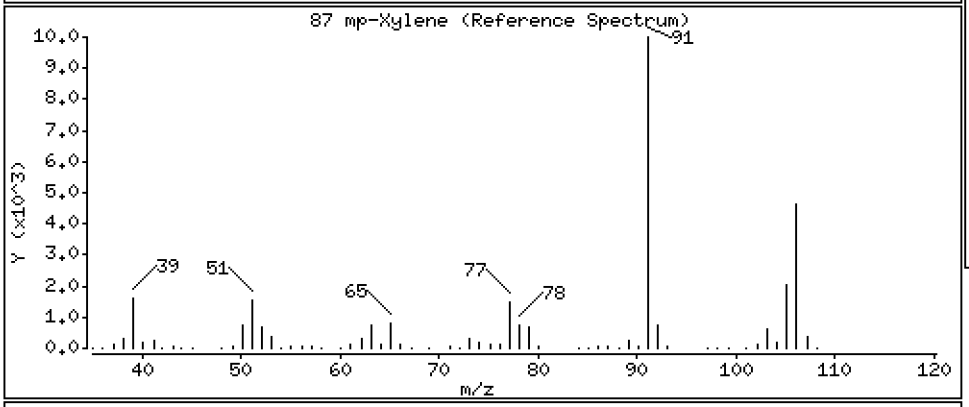
Purge Volume: 5.0 Operator: CJG

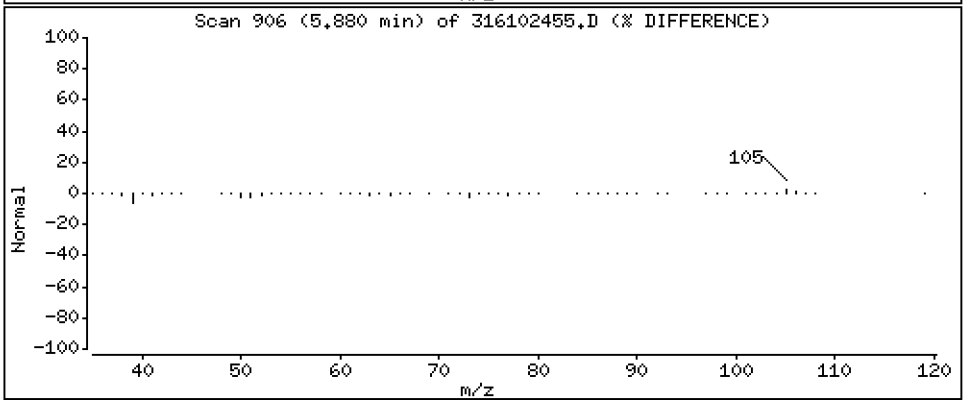
Column phase: DB-VRX Column diameter: 0.25

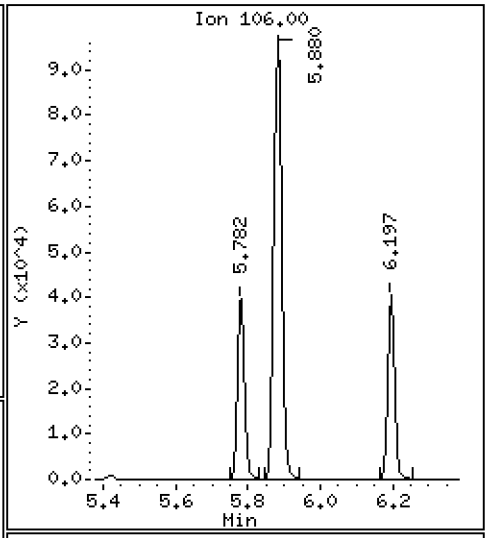
87 mp-Xylene Concentration: 10.9242 ug/L

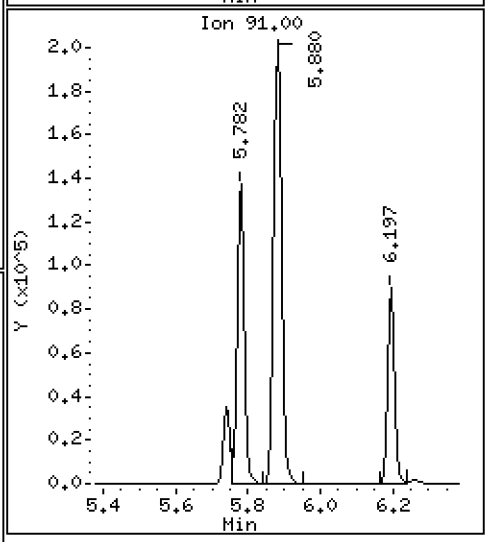












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 91

Date : 25-OCT-2016 00:08

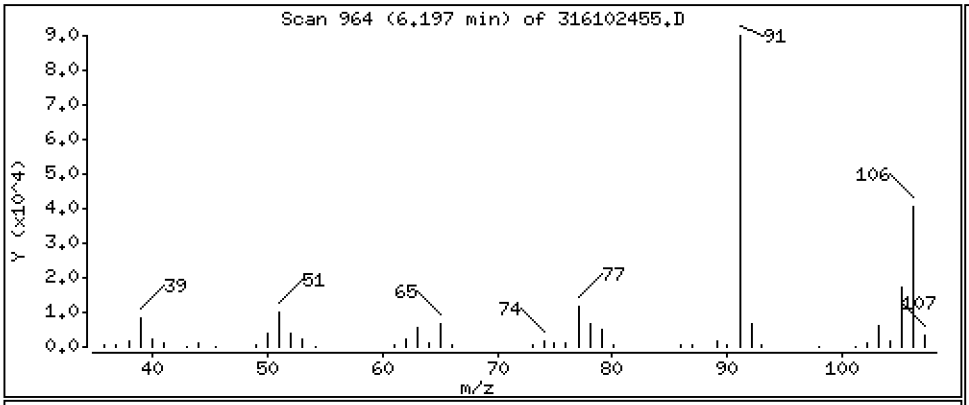
Client ID: Instrument: ms03.i

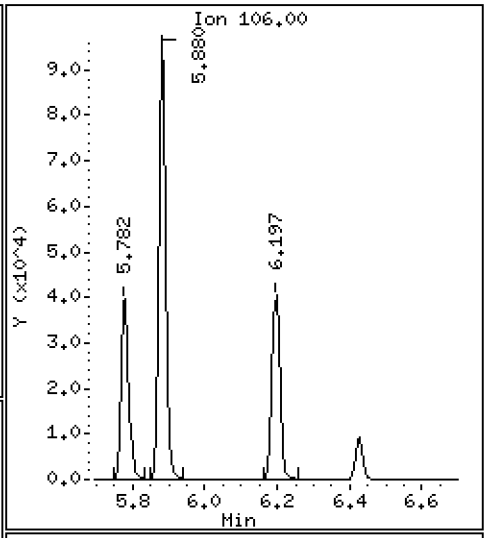
Sample Info: 1235;;1;1;2;;;

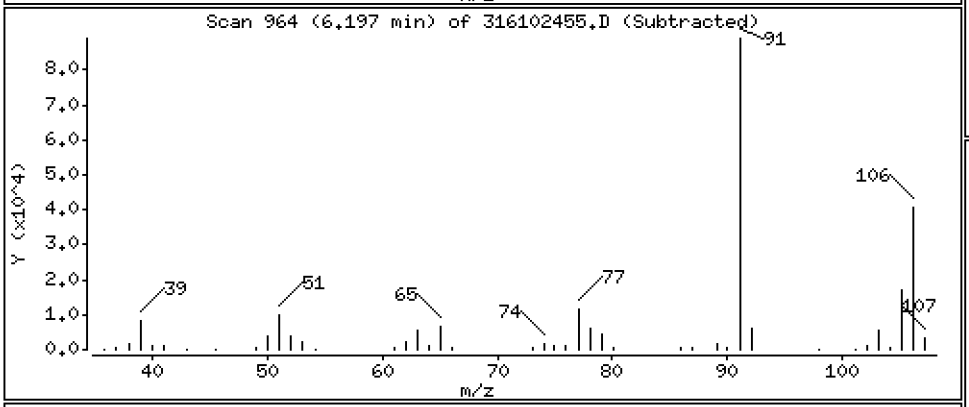
Purge Volume: 5.0 Operator: CJG

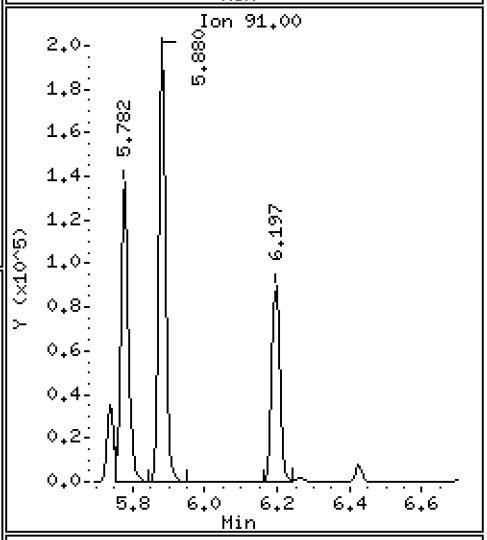
Column phase: DB-VRX Column diameter: 0.25

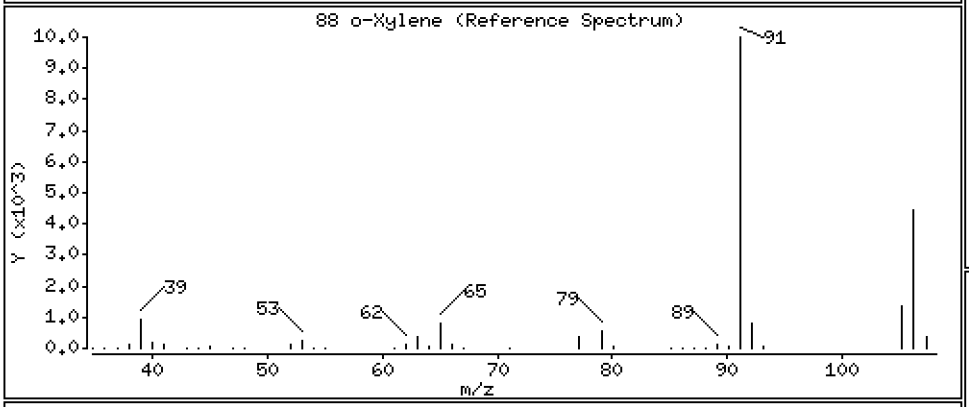
88 o-Xylene Concentration: 4.93441 ug/L

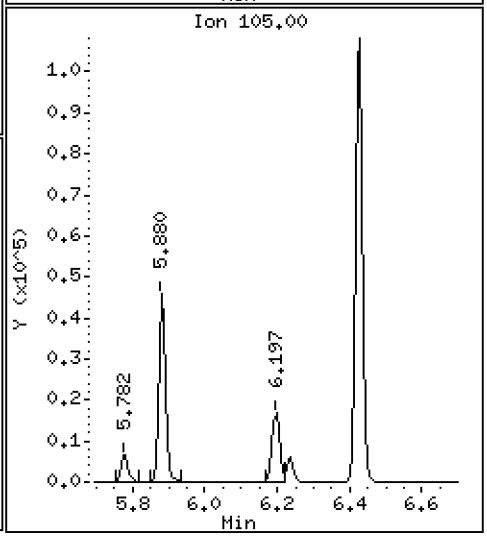


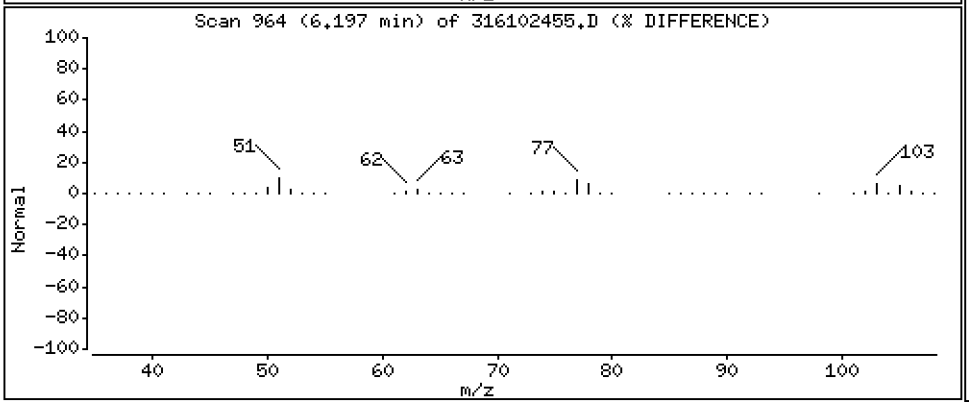












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 92

Date : 25-OCT-2016 00:08

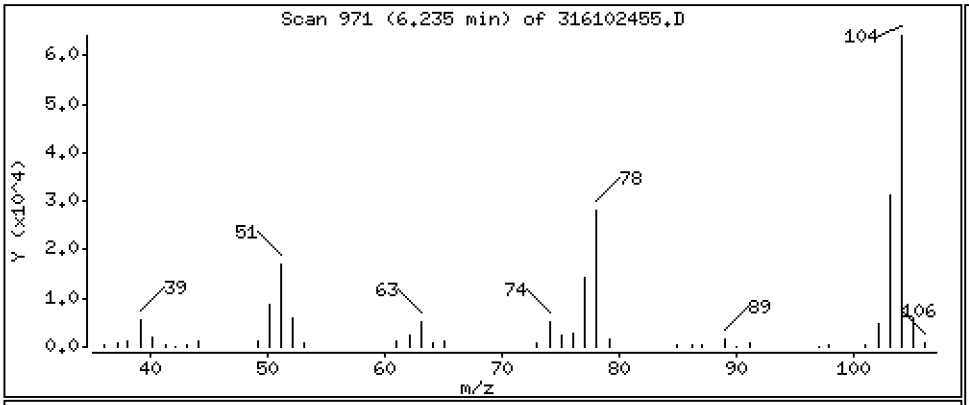
Client ID: Instrument: ms03.i

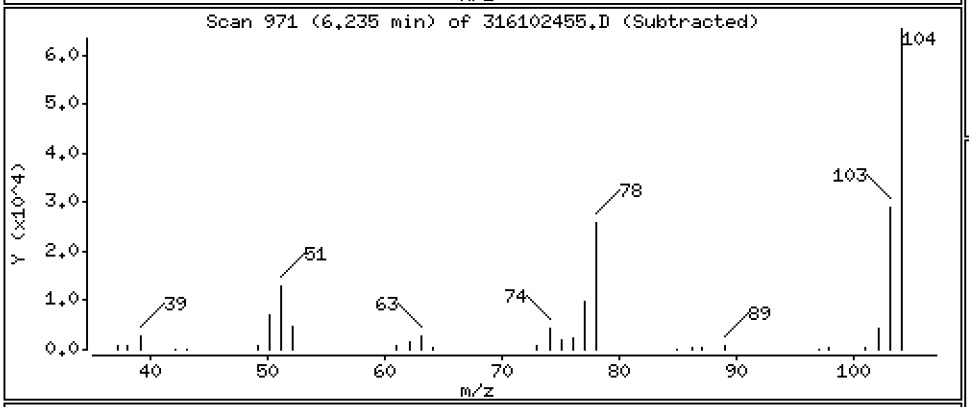
Sample Info: 1235;;1;1;2;;;

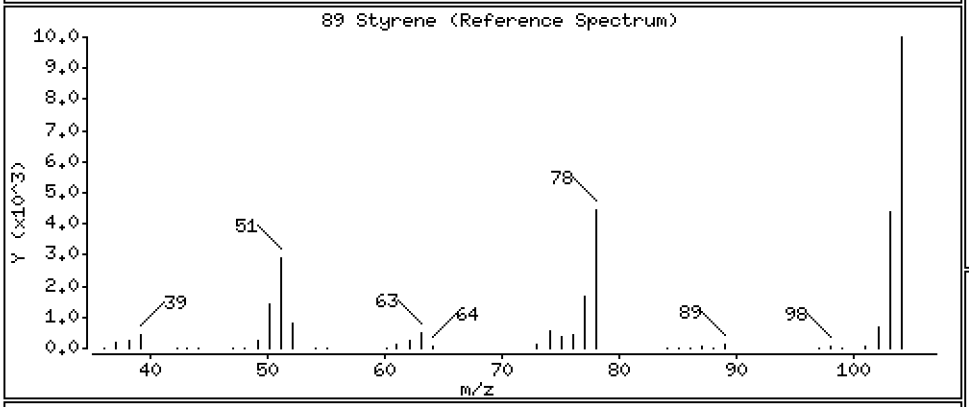
Purge Volume: 5.0 Operator: CJG

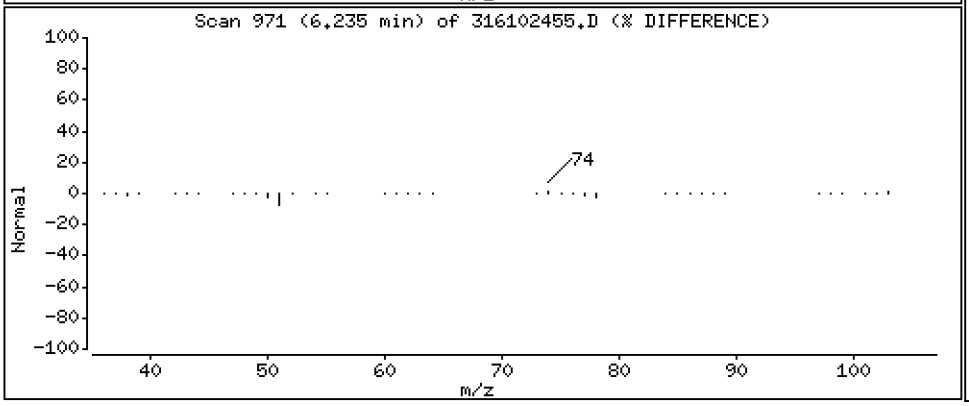
Column phase: DB-VRX Column diameter: 0.25

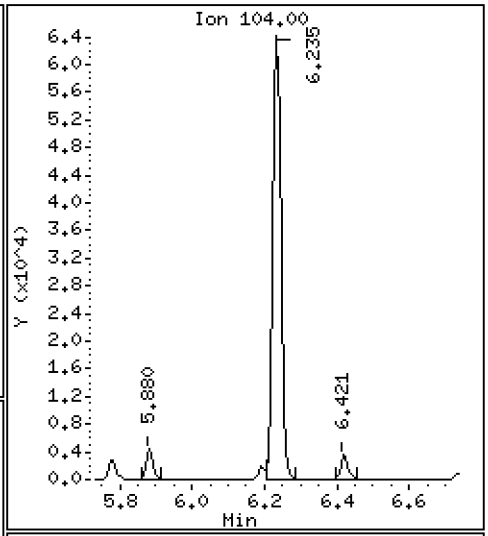
89 Styrene Concentration: 4.91679 ug/L

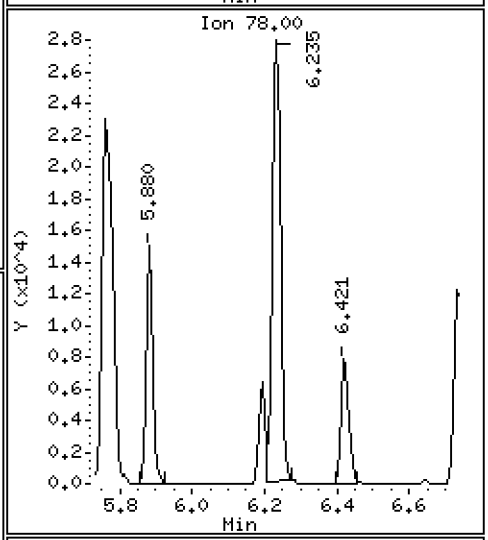


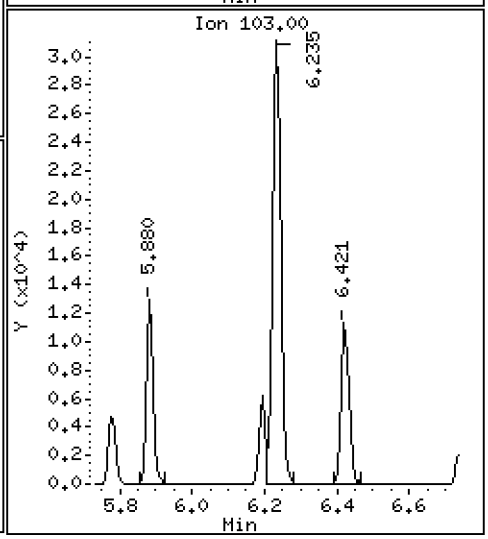












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 93

Date : 25-OCT-2016 00:08

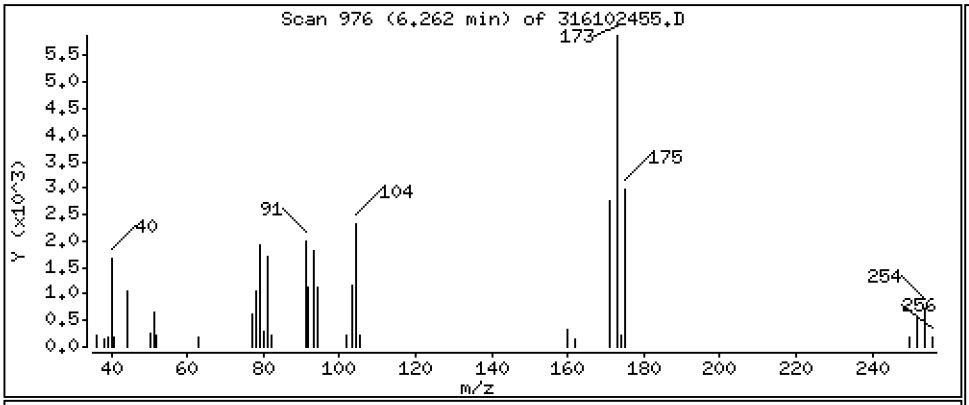
Client ID: Instrument: ms03.i

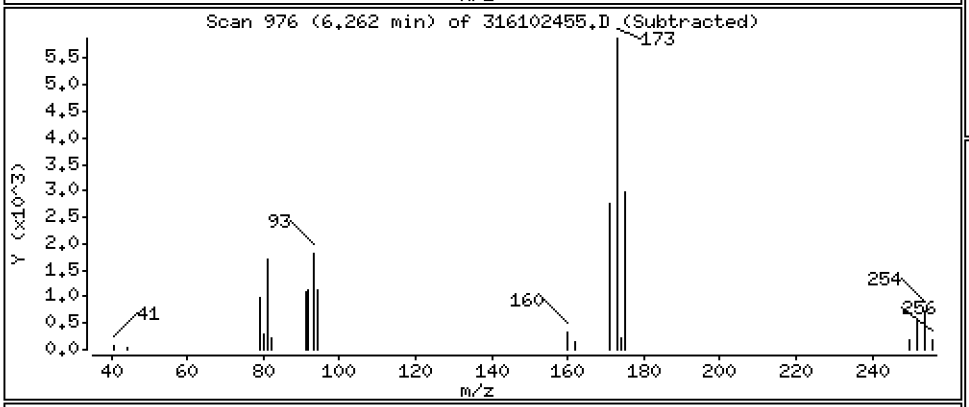
Sample Info: 1235;;1;1;2;;;

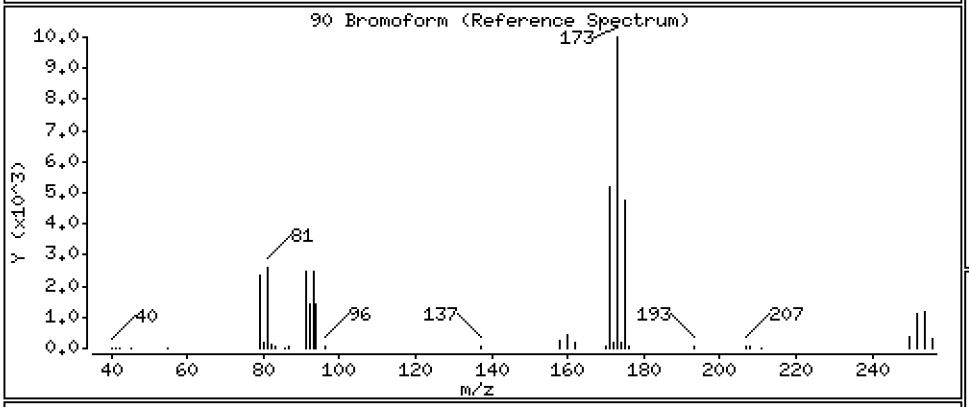
Purge Volume: 5.0 Operator: CJG

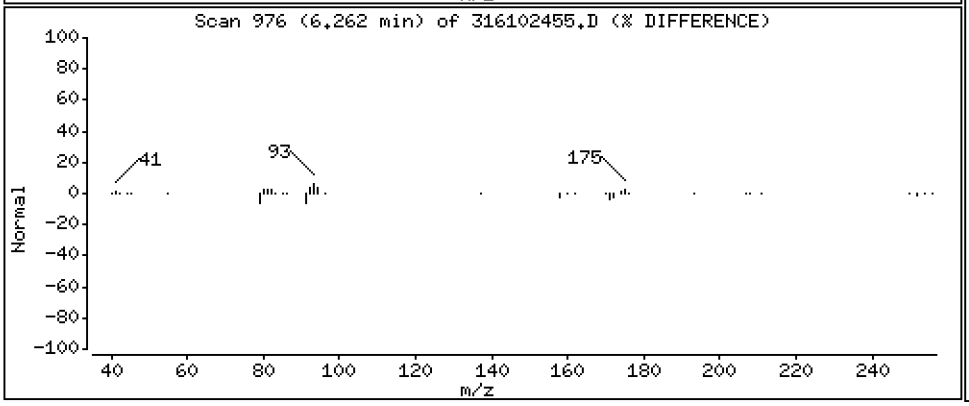
Column phase: DB-VRX Column diameter: 0.25

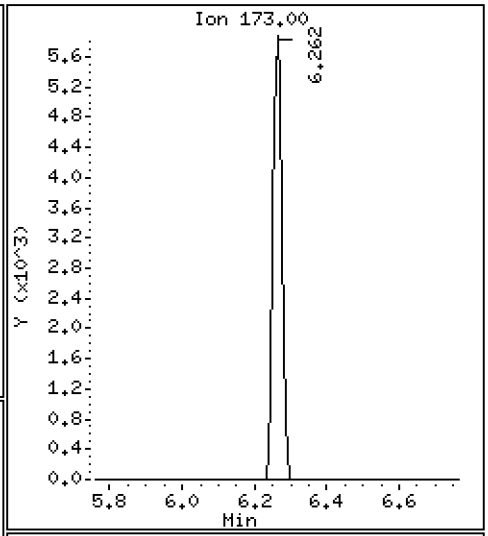
90 Bromoform Concentration: 4.09499 ug/L

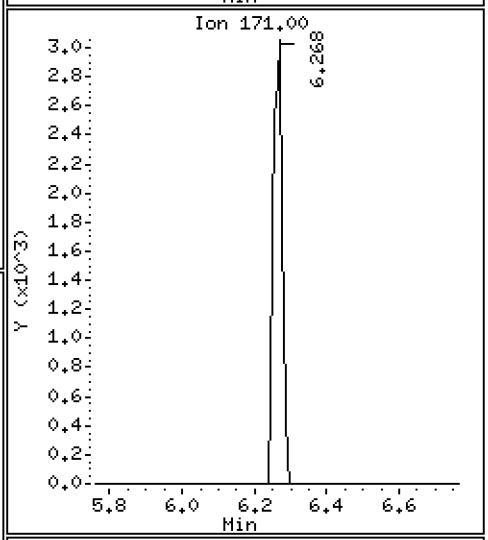


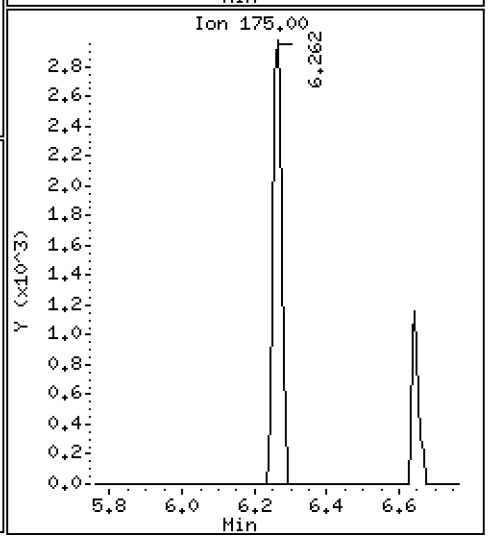












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 94

Date : 25-OCT-2016 00:08

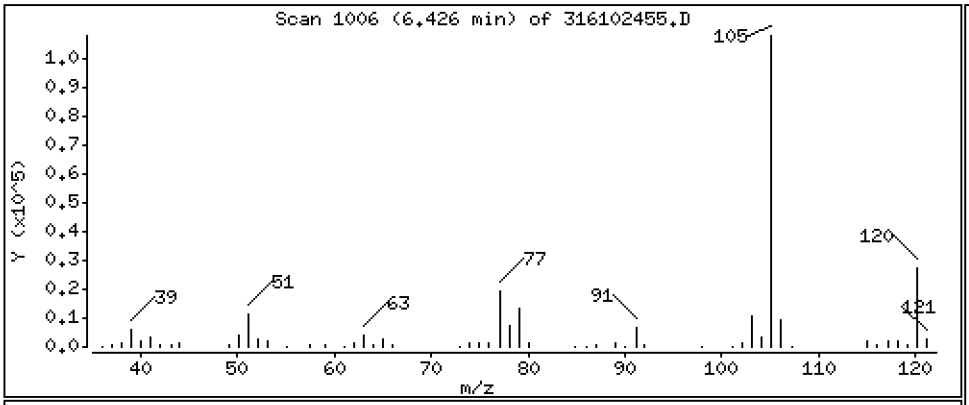
Client ID: Instrument: ms03.i

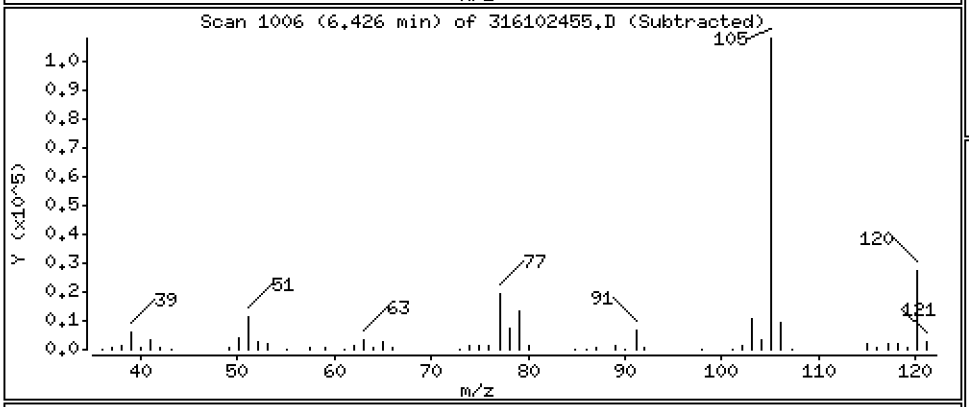
Sample Info: 1235;;1;1;2;;;

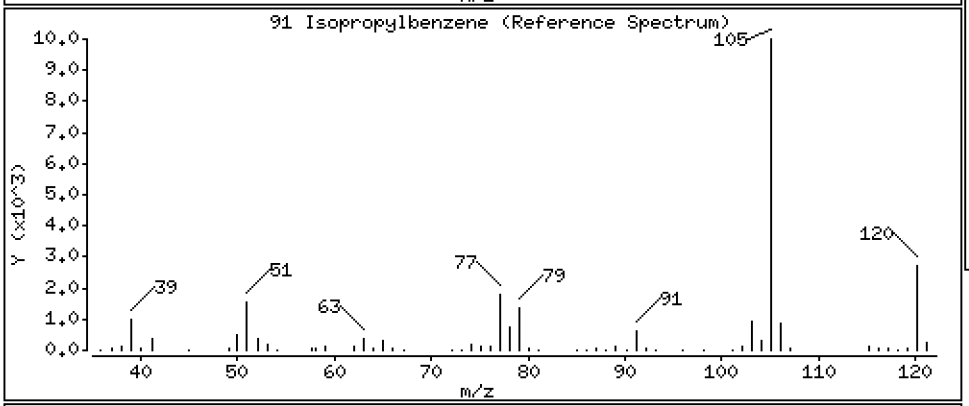
Purge Volume: 5.0 Operator: CJG

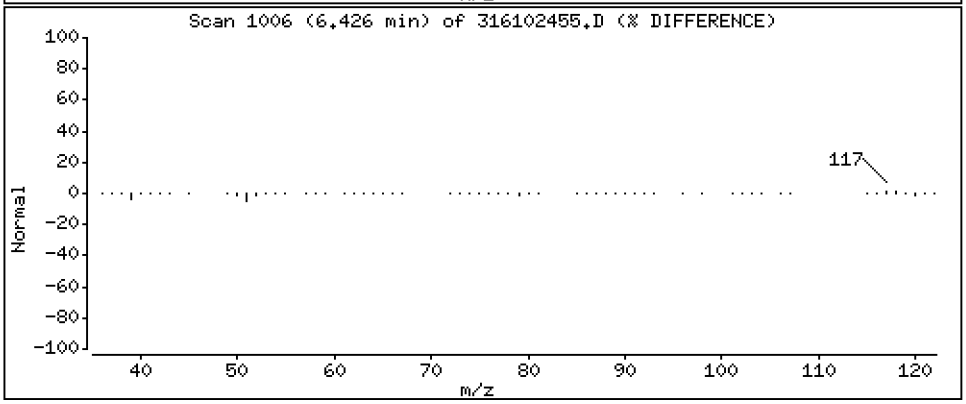
Column phase: DB-VRX Column diameter: 0.25

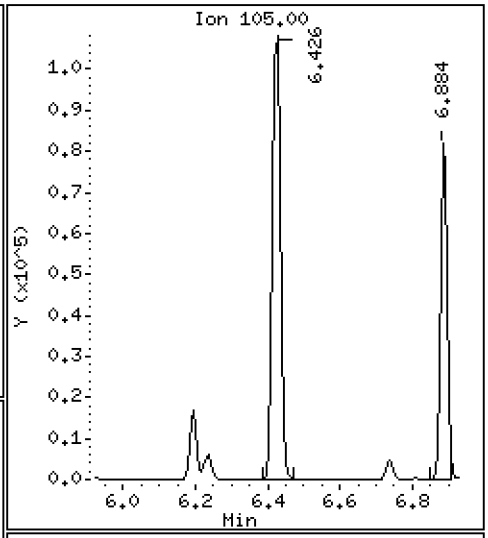
91 Isopropylbenzene Concentration: 5.35267 ug/L

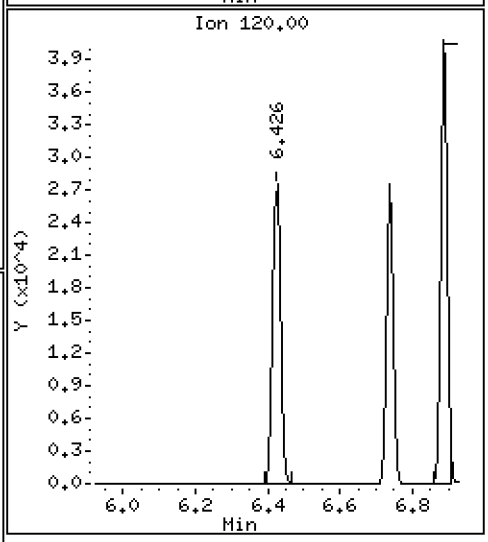












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 95

Date : 25-OCT-2016 00:08

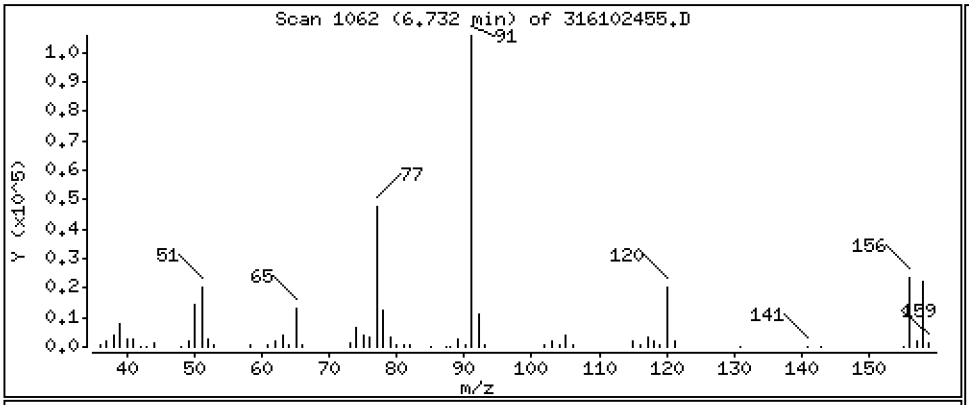
Client ID: Instrument: ms03.i

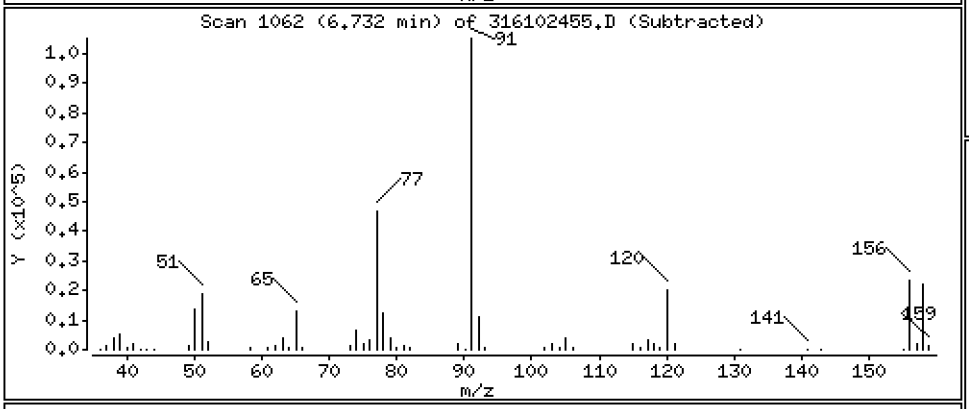
Sample Info: 1235;;1;1;2;;;

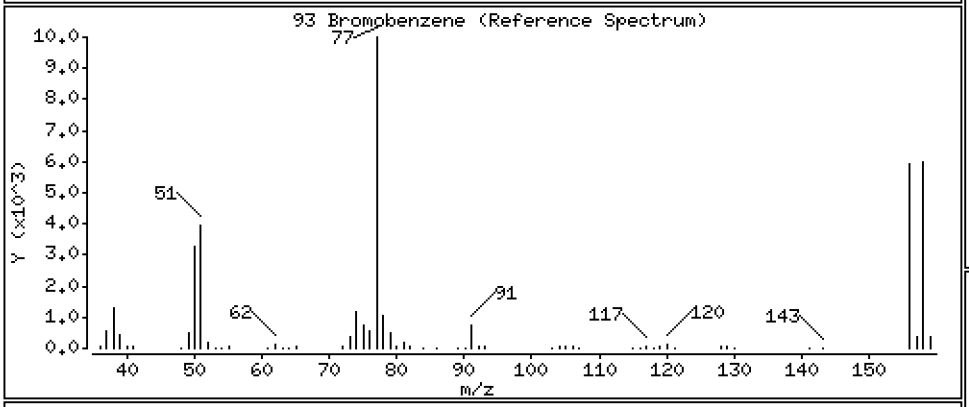
Purge Volume: 5.0 Operator: CJG

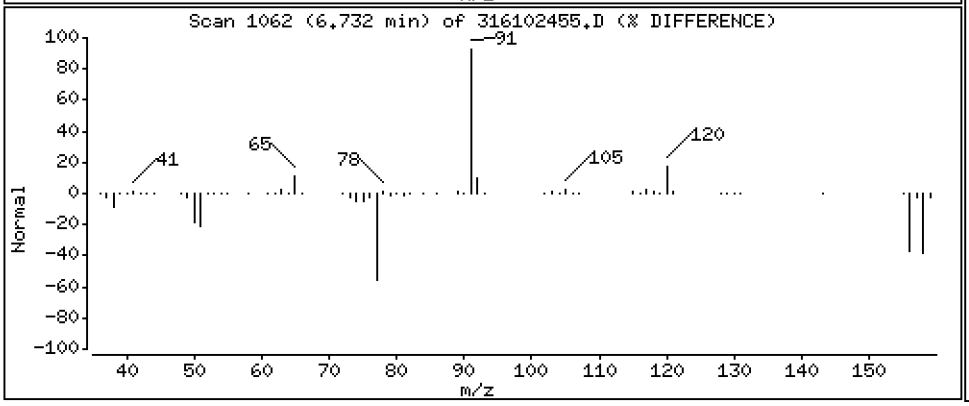
Column phase: DB-VRX Column diameter: 0.25

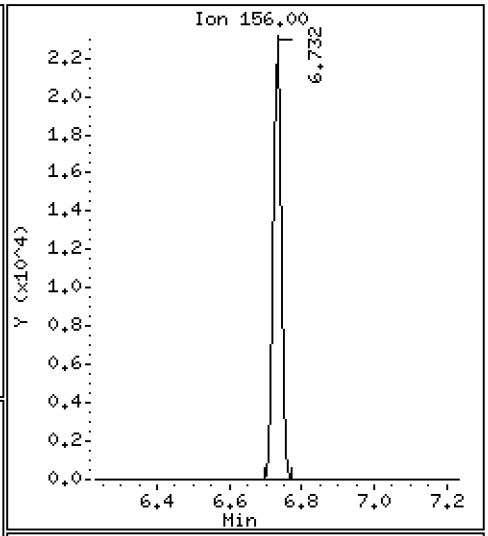
93 Bromobenzene Concentration: 5.47376 ug/L

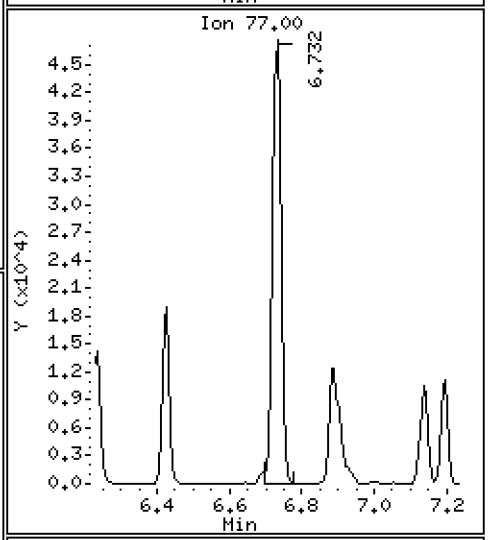


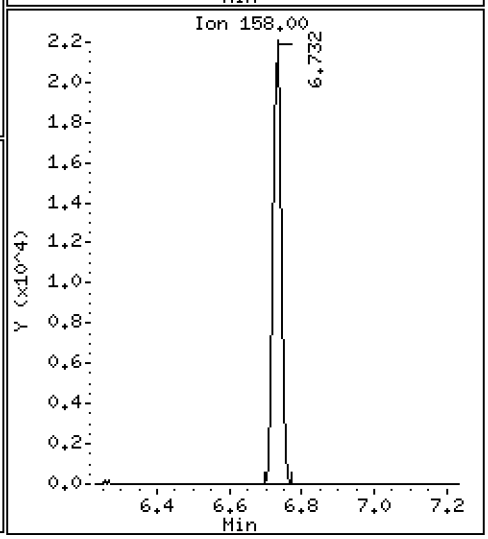












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 96

Date : 25-OCT-2016 00:08

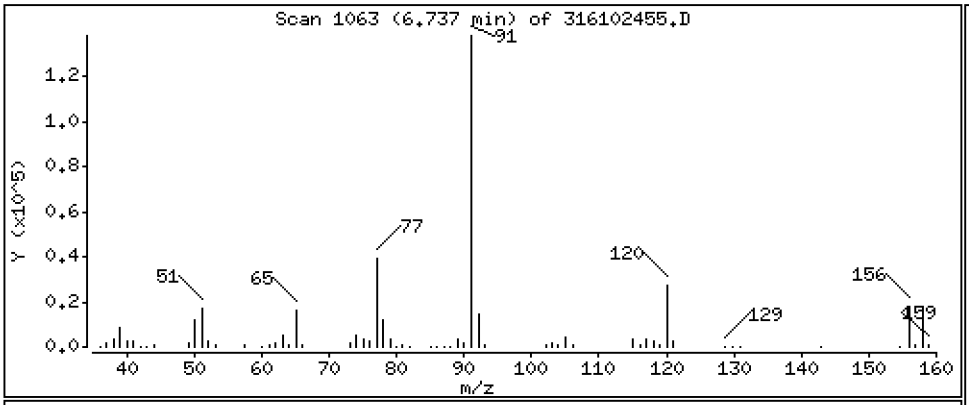
Client ID: Instrument: ms03.i

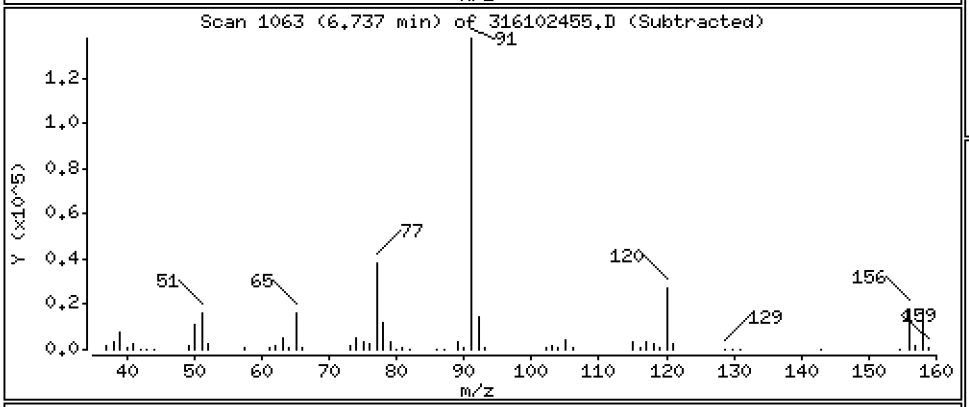
Sample Info: 1235;;1;1;2;;;

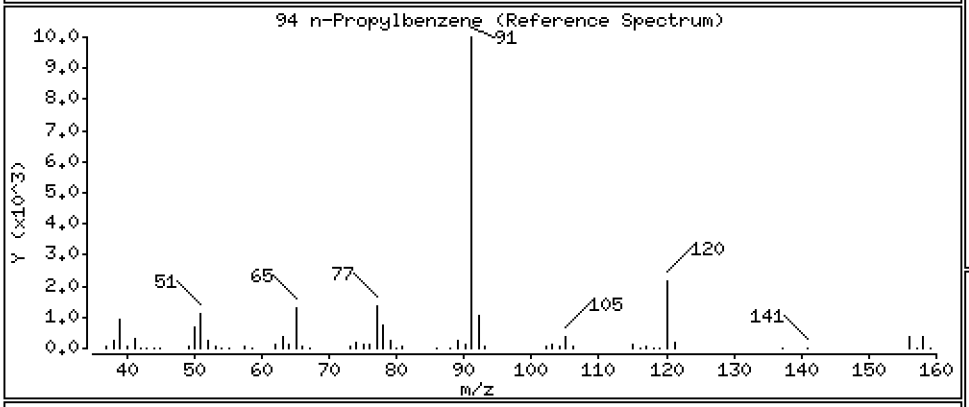
Purge Volume: 5.0 Operator: CJG

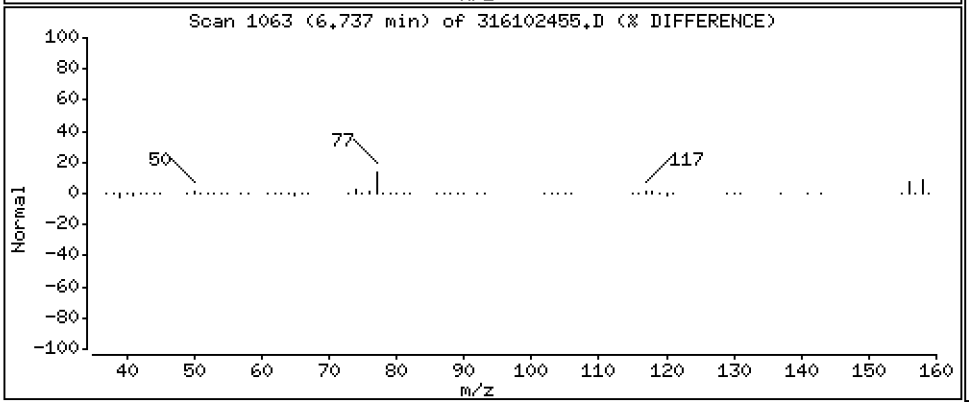
Column phase: DB-VRX Column diameter: 0.25

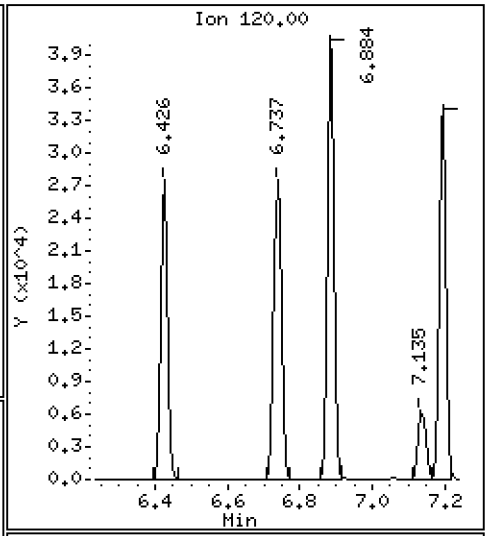
94 n-Propylbenzene Concentration: 5.23707 ug/L

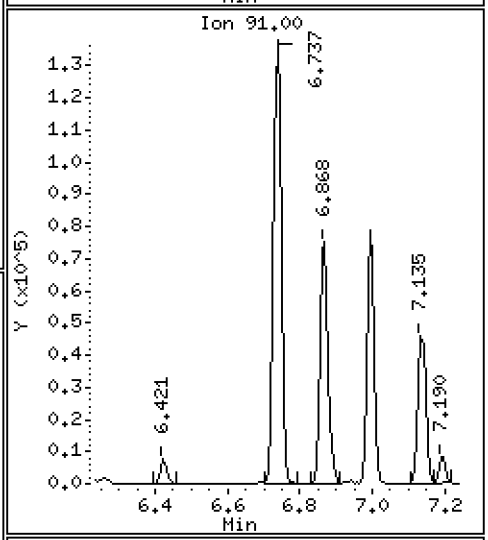


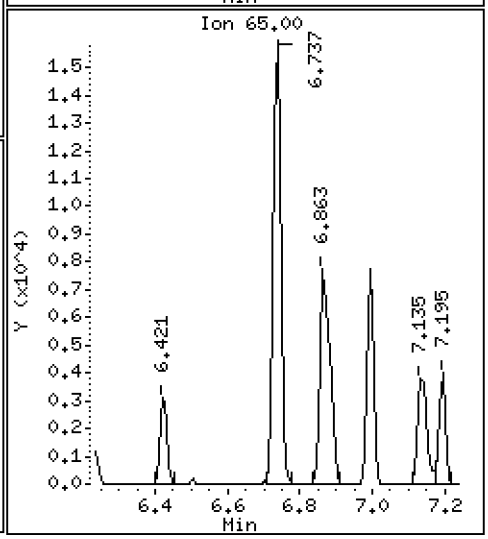












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 97

Date : 25-OCT-2016 00:08

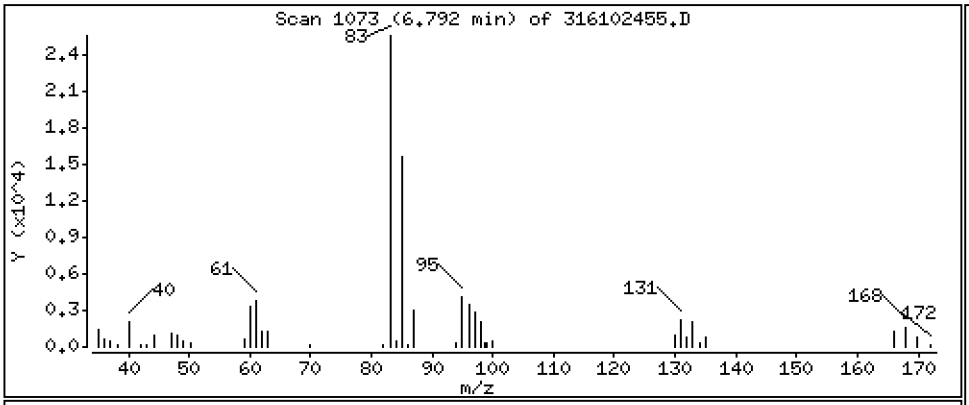
Client ID: Instrument: ms03.i

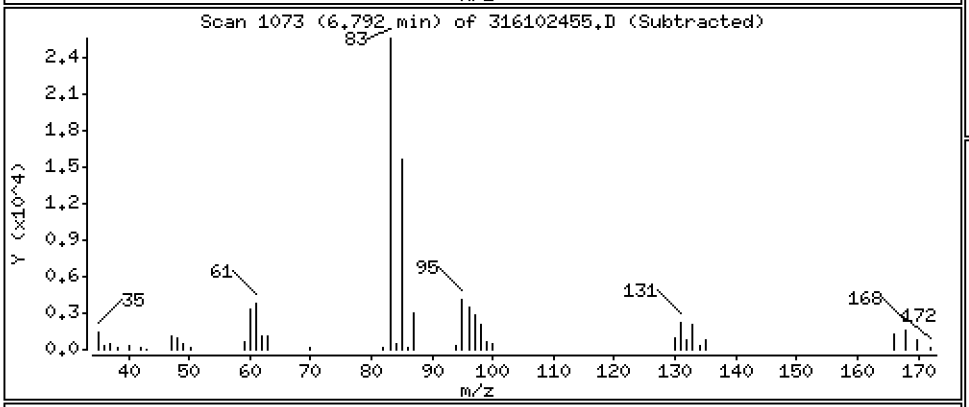
Sample Info: 1235;;1;1;2;;;

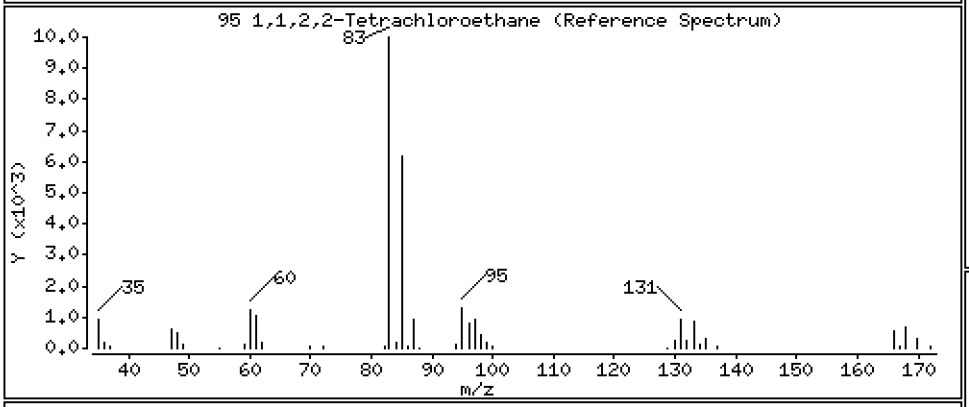
Purge Volume: 5.0 Operator: CJG

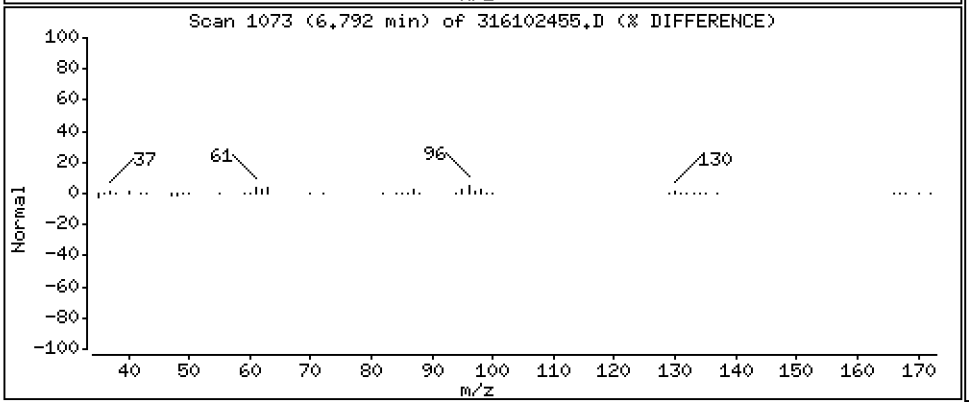
Column phase: DB-VRX Column diameter: 0.25

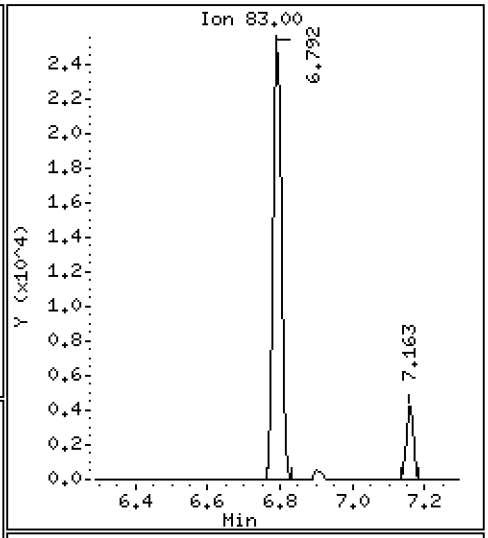
95 1,1,2,2-Tetrachloroethane Concentration: 5.22071 ug/L

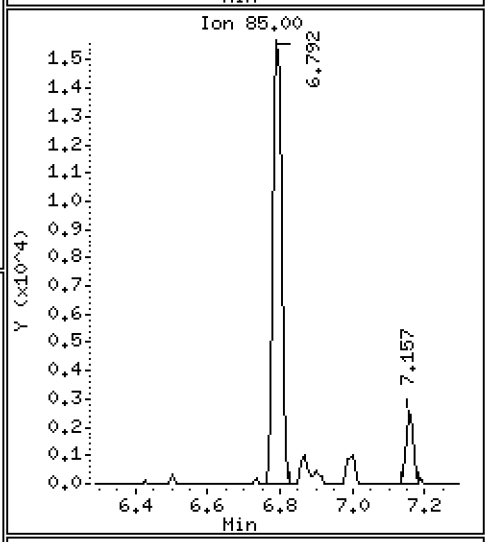


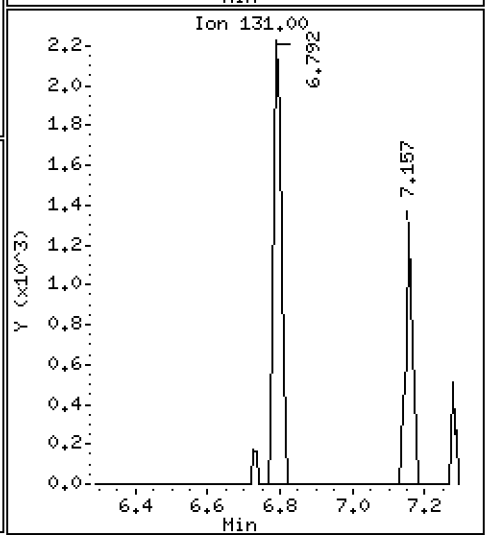












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 98

Date : 25-OCT-2016 00:08

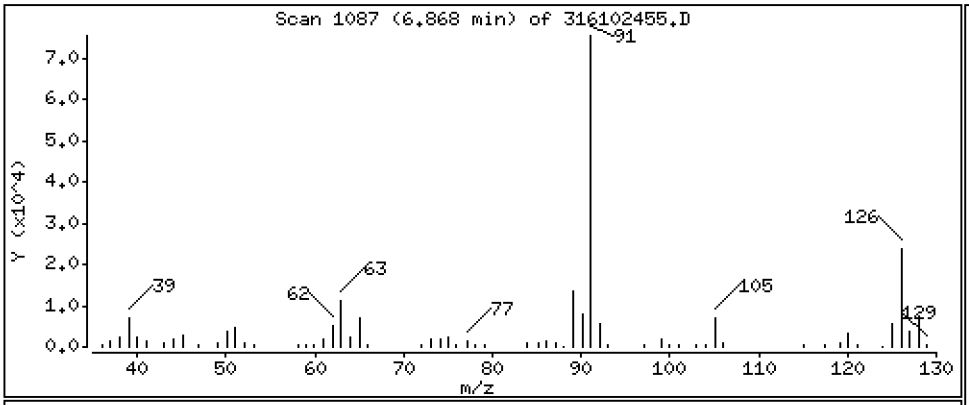
Client ID: Instrument: ms03.i

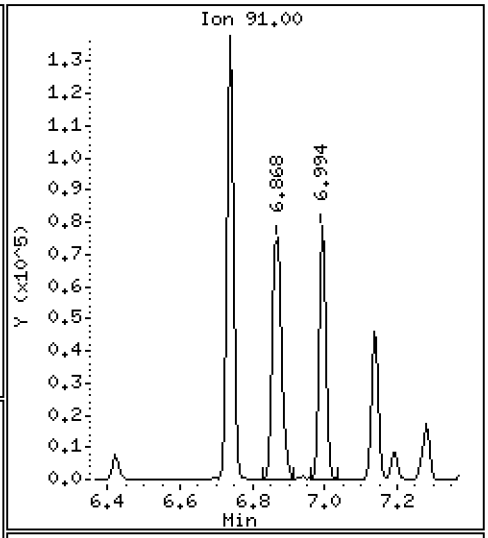
Sample Info: 1235;;1;1;2;;;

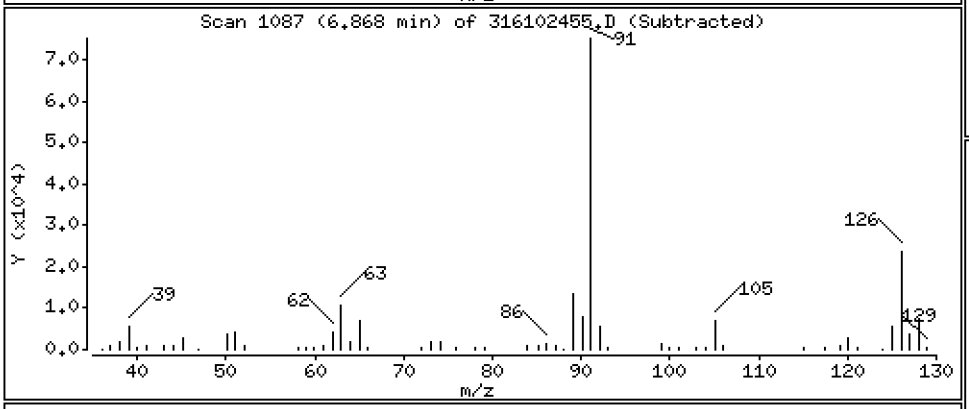
Purge Volume: 5.0 Operator: CJG

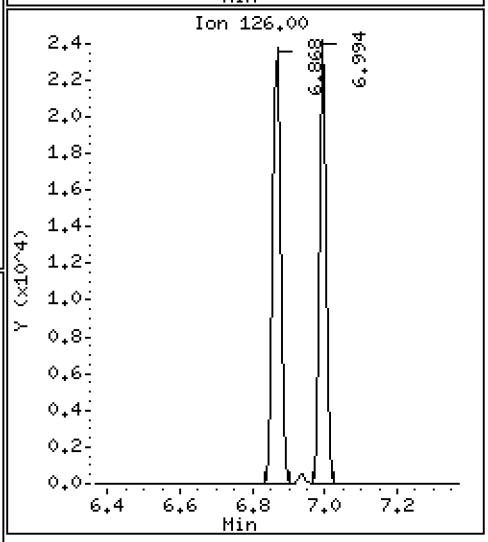
Column phase: DB-VRX Column diameter: 0.25

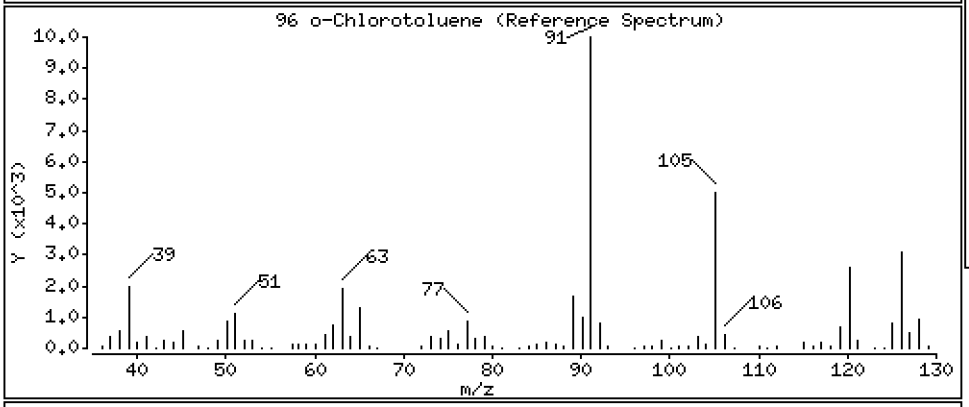
96 o-Chlorotoluene Concentration: 5.47627 ug/L

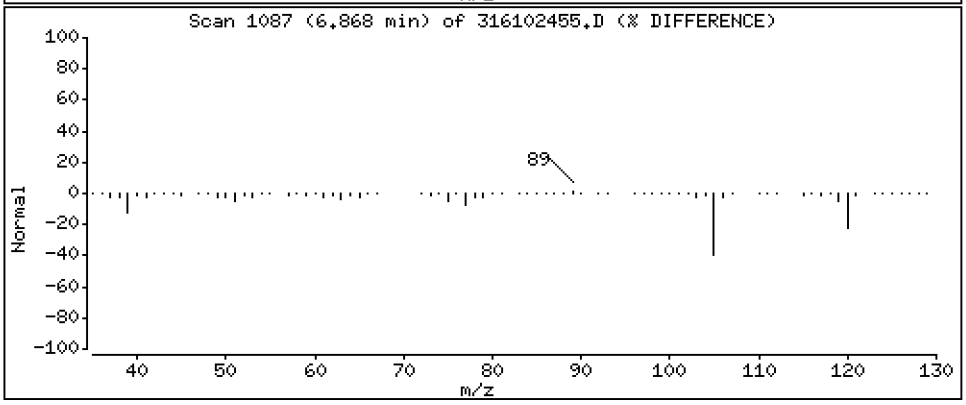












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 99

Date : 25-OCT-2016 00:08

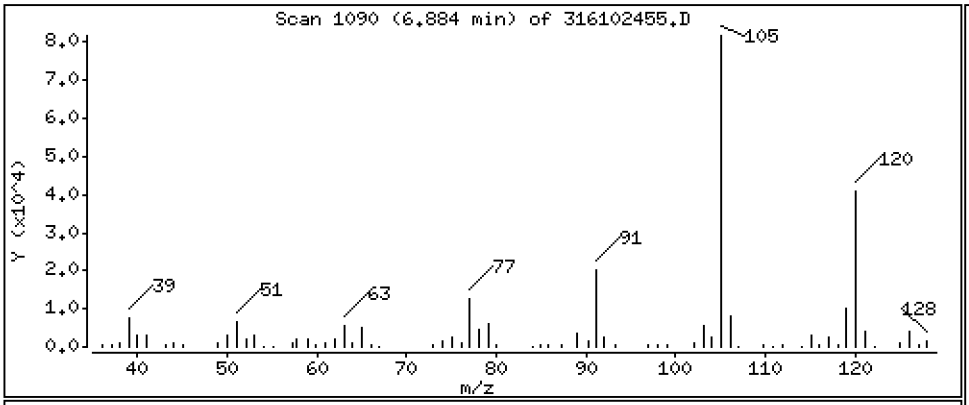
Client ID: Instrument: ms03.i

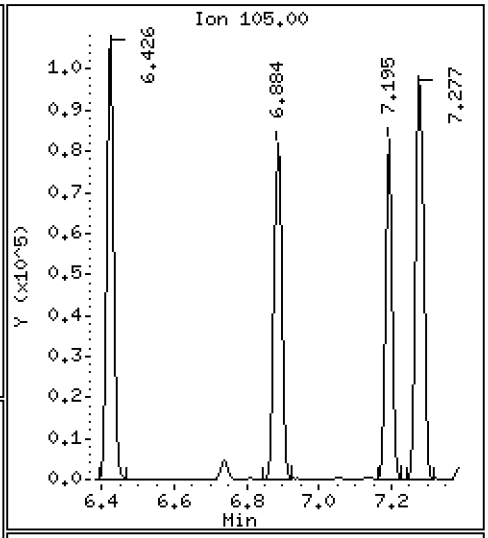
Sample Info: 1235;;1;1;2;;;

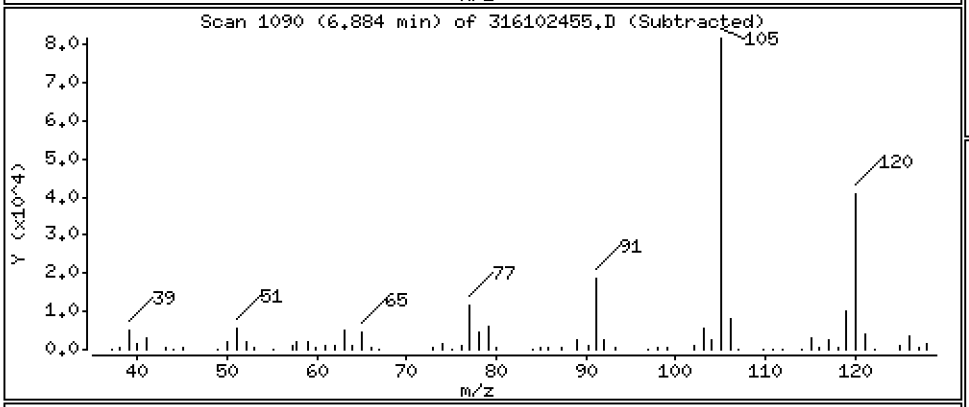
Purge Volume: 5.0 Operator: CJG

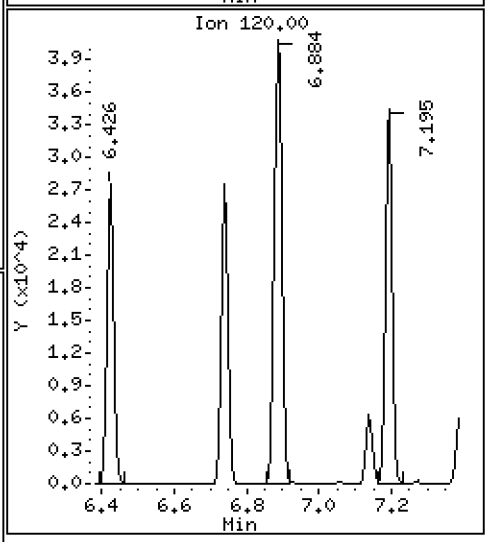
Column phase: DB-VRX Column diameter: 0.25

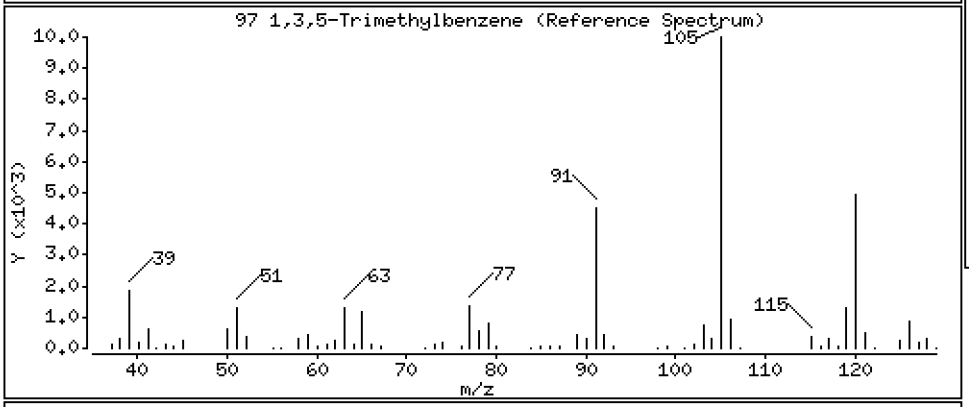
97 1,3,5-Trimethylbenzene Concentration: 5.09809 ug/L

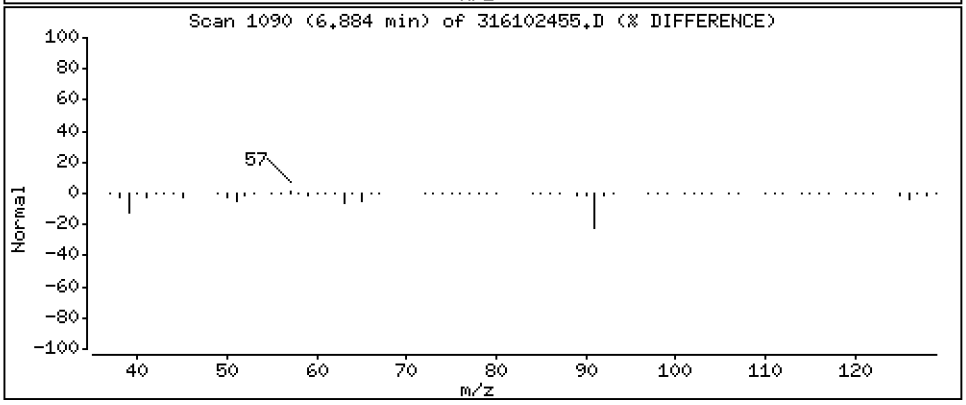












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 100

Date : 25-OCT-2016 00:08

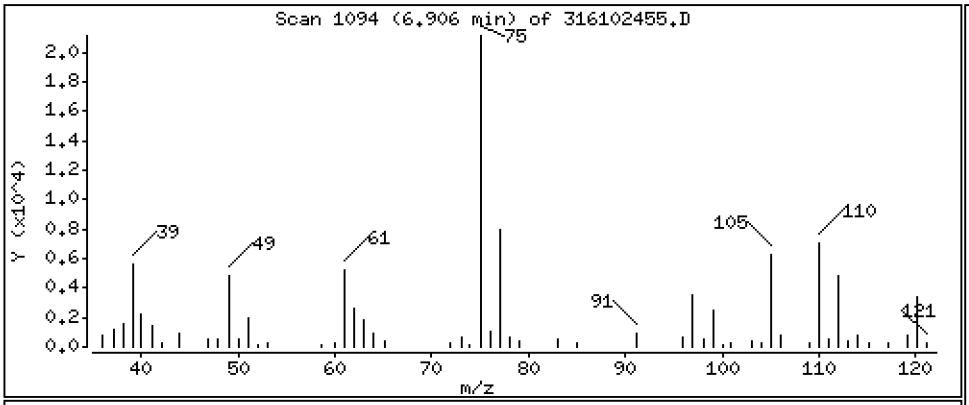
Client ID: Instrument: ms03.i

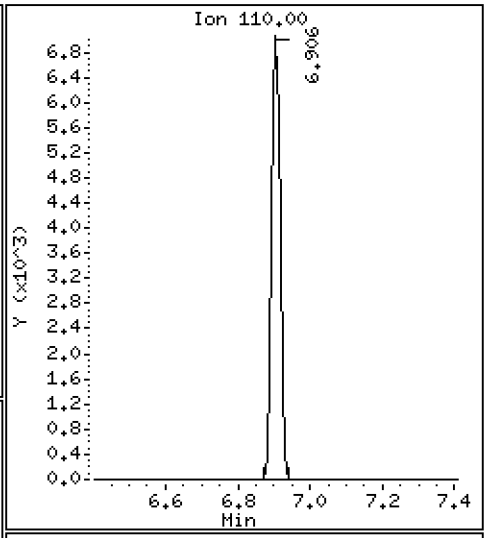
Sample Info: 1235;;1;1;2;;;

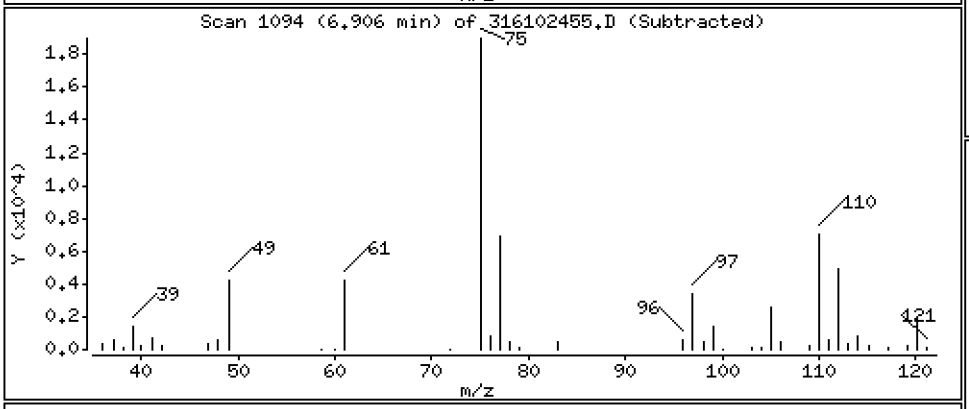
Purge Volume: 5.0 Operator: CJG

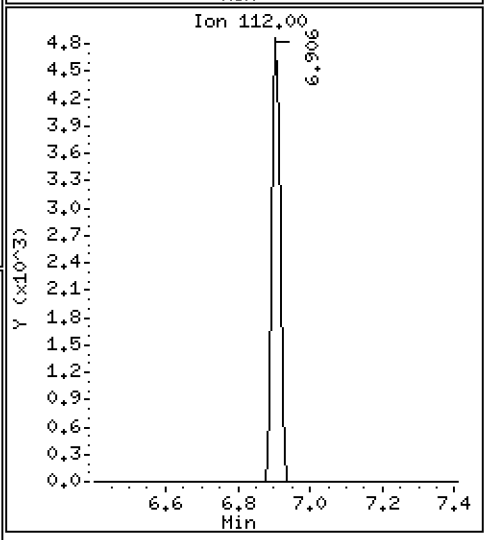
Column phase: DB-VRX Column diameter: 0.25

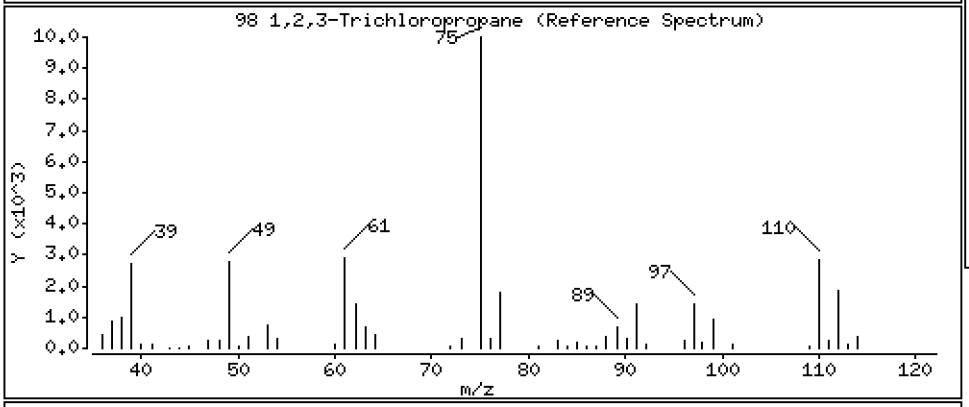
98 1,2,3-Trichloropropane Concentration: 5.32925 ug/L

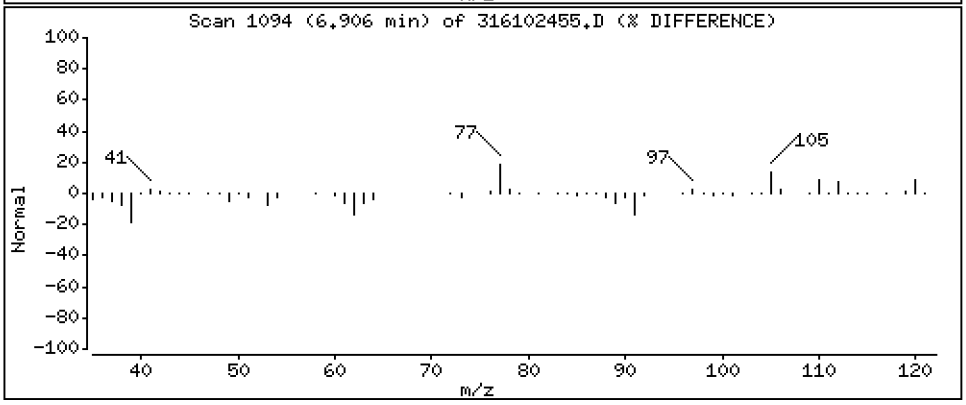












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 101

Date : 25-OCT-2016 00:08

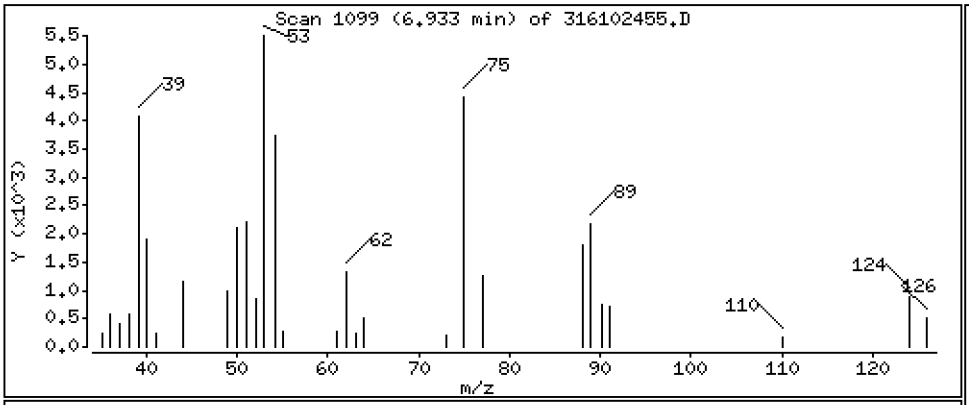
Client ID: Instrument: ms03.i

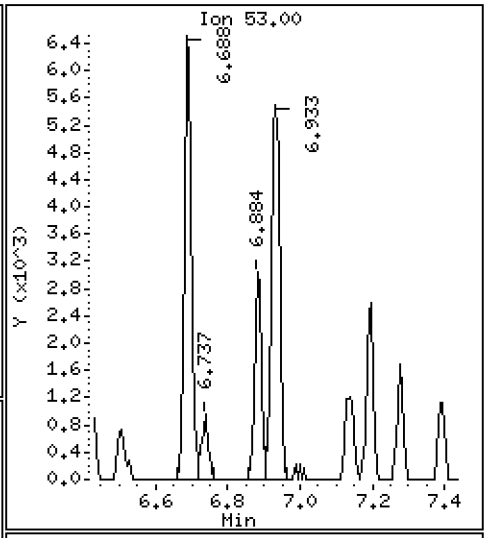
Sample Info: 1235;;1;1;2;;;

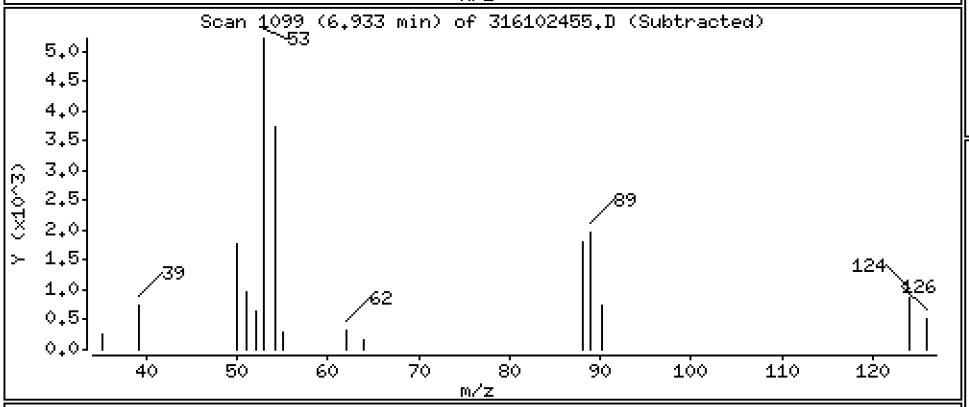
Purge Volume: 5.0 Operator: CJG

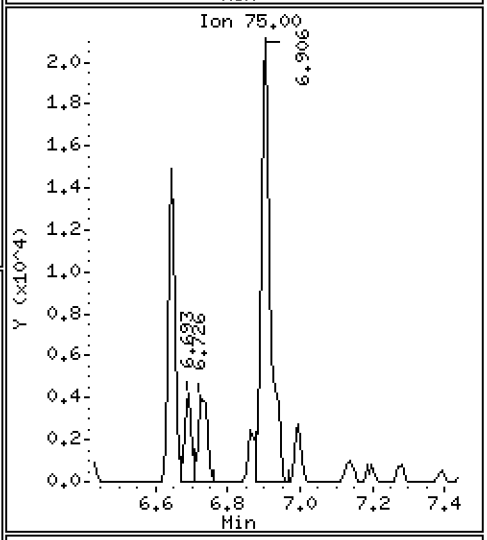
Column phase: DB-VRX Column diameter: 0.25

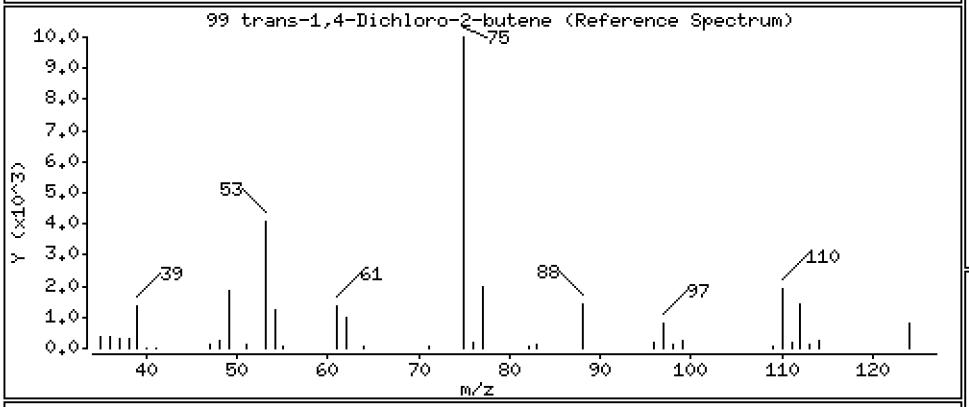
99 trans-1,4-Dichloro-2-butene Concentration: 4.28306 ug/L

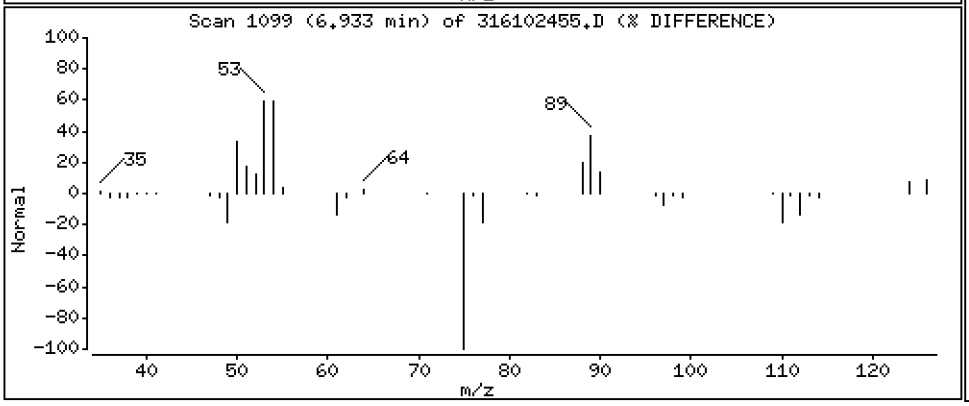


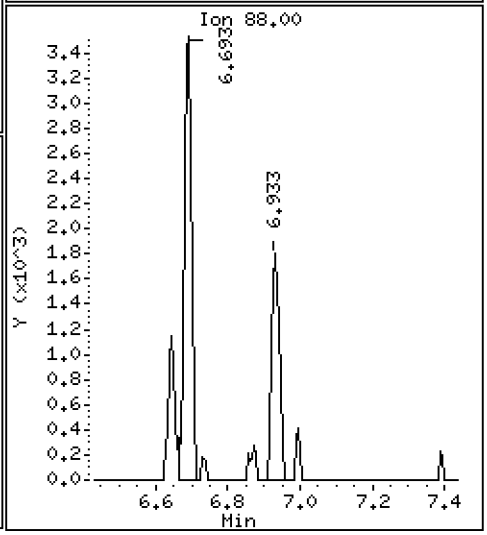












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 102

Date : 25-OCT-2016 00:08

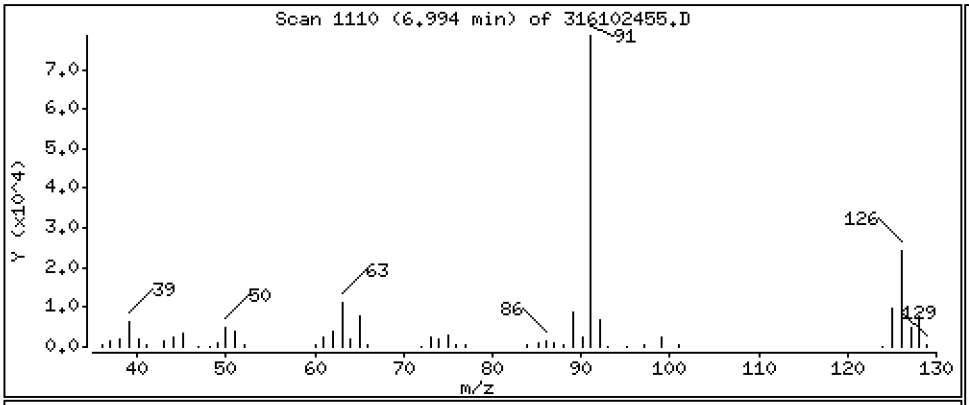
Client ID: Instrument: ms03.i

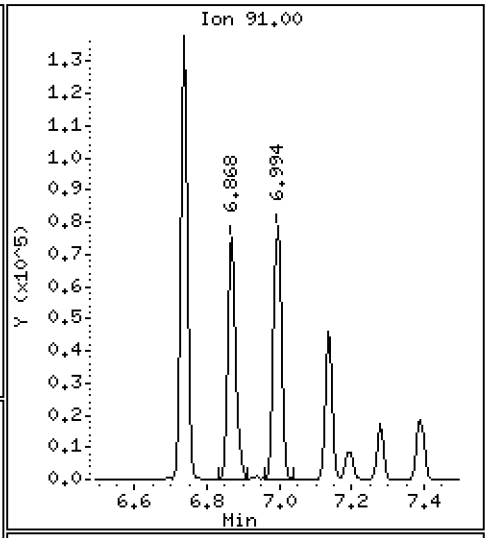
Sample Info: 1235;;1;1;2;;;

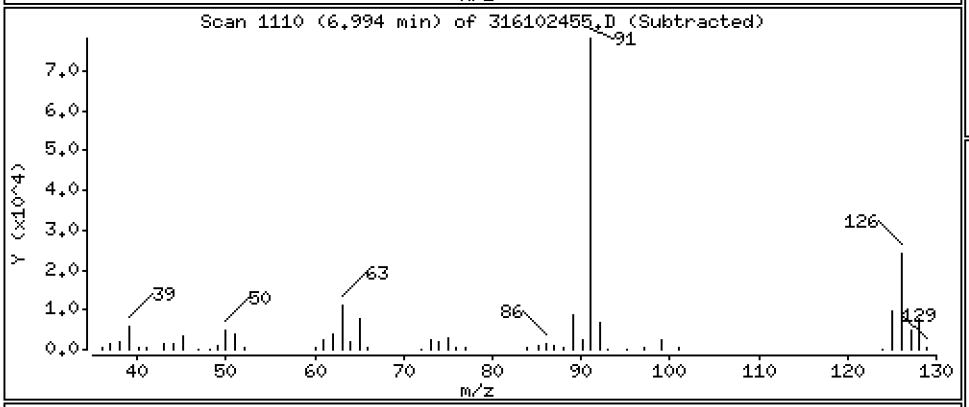
Purge Volume: 5.0 Operator: CJG

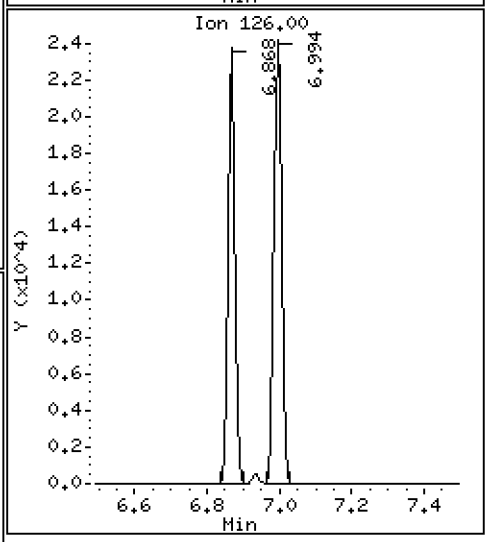
Column phase: DB-VRX Column diameter: 0.25

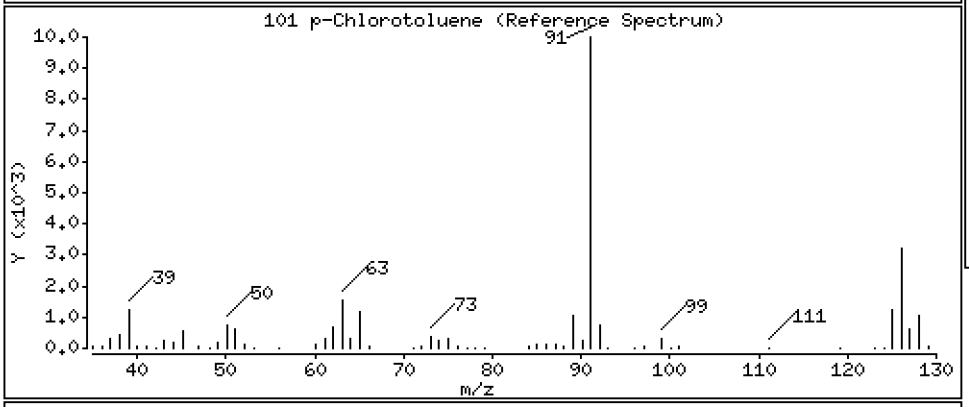
101 p-Chlorotoluene Concentration: 5.34408 ug/L

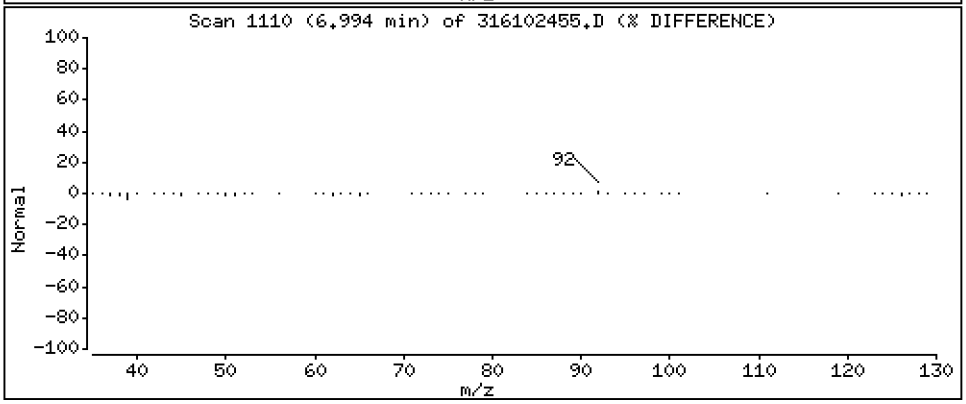












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 103

Date : 25-OCT-2016 00:08

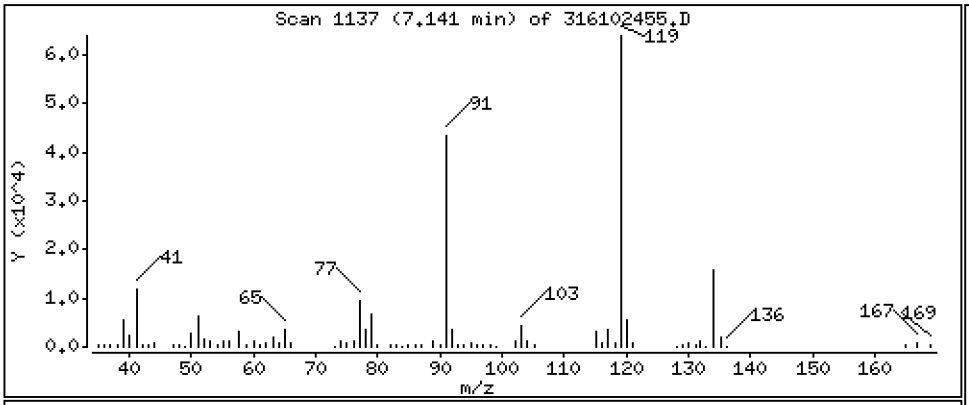
Client ID: Instrument: ms03.i

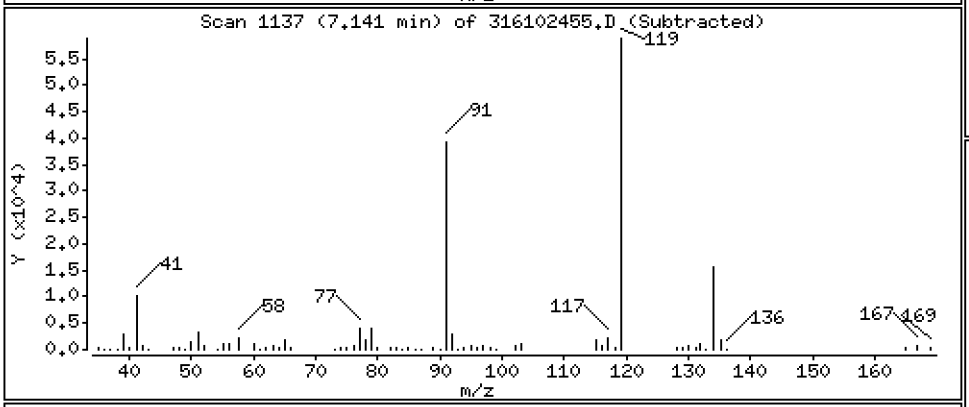
Sample Info: 1235;;1;1;2;;;

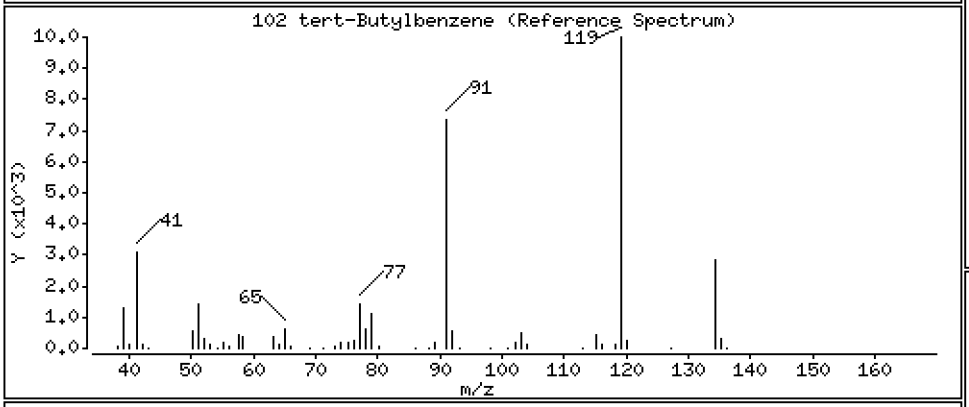
Purge Volume: 5.0 Operator: CJG

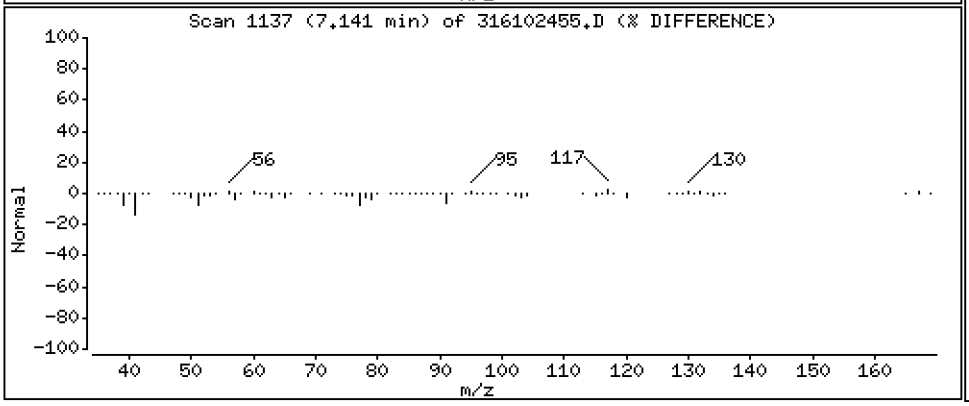
Column phase: DB-VRX Column diameter: 0.25

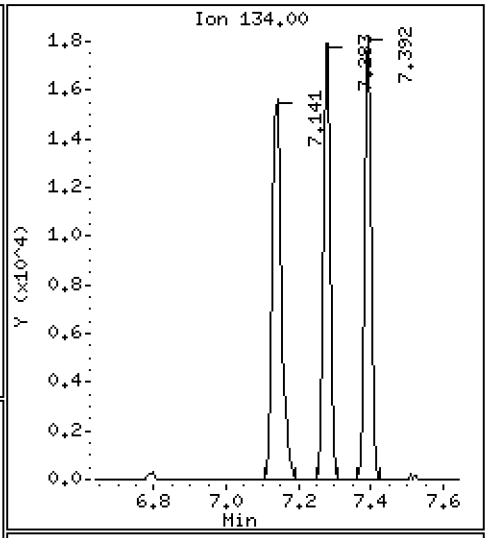
102 tert-Butylbenzene Concentration: 5.41204 ug/L

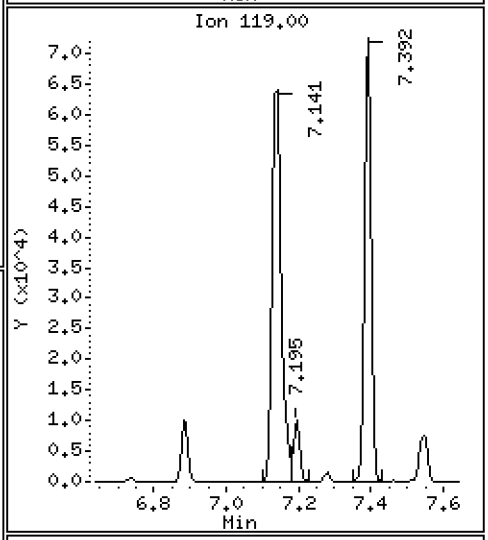


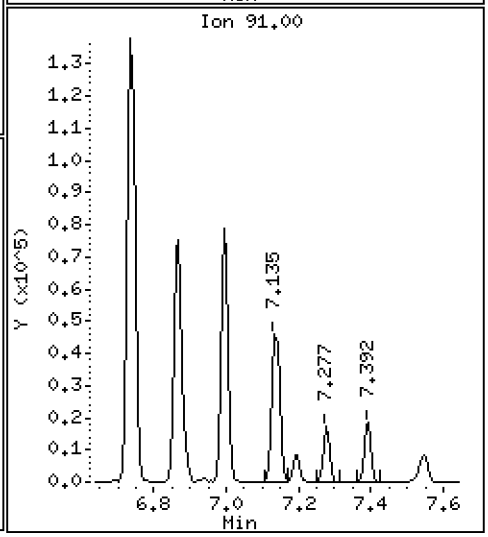












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 104

Date : 25-OCT-2016 00:08

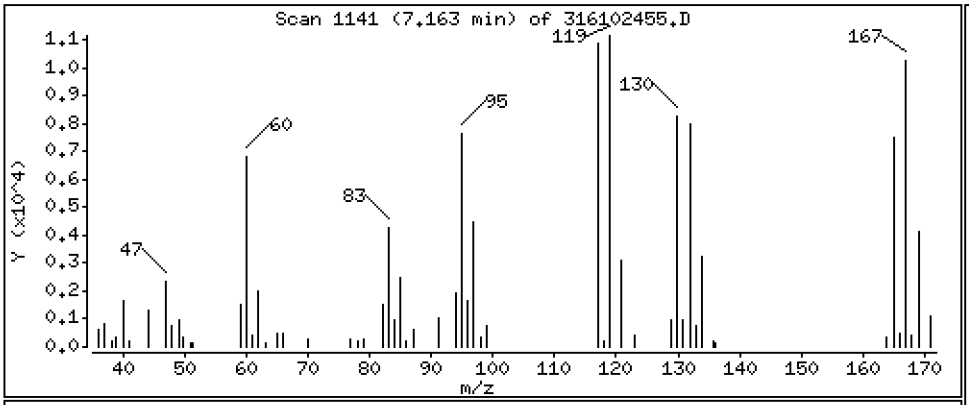
Client ID: Instrument: ms03.i

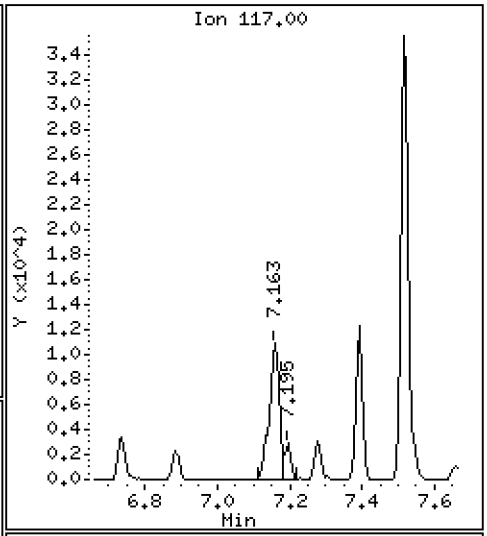
Sample Info: 1235;;1;1;2;;;

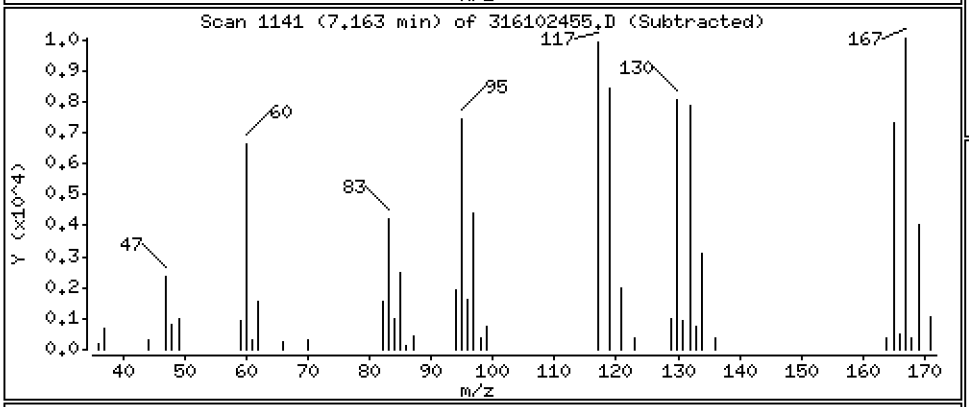
Purge Volume: 5.0 Operator: CJG

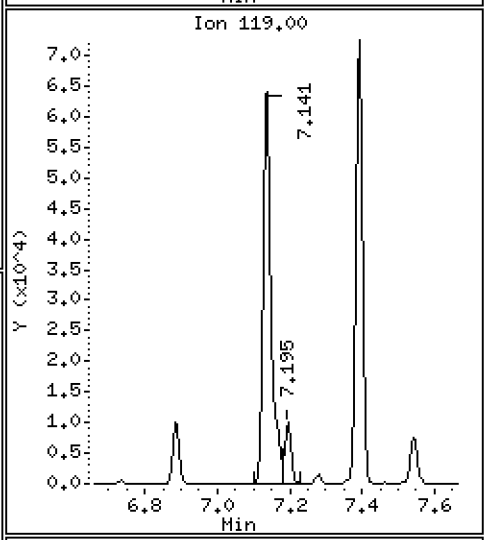
Column phase: DB-VRX Column diameter: 0.25

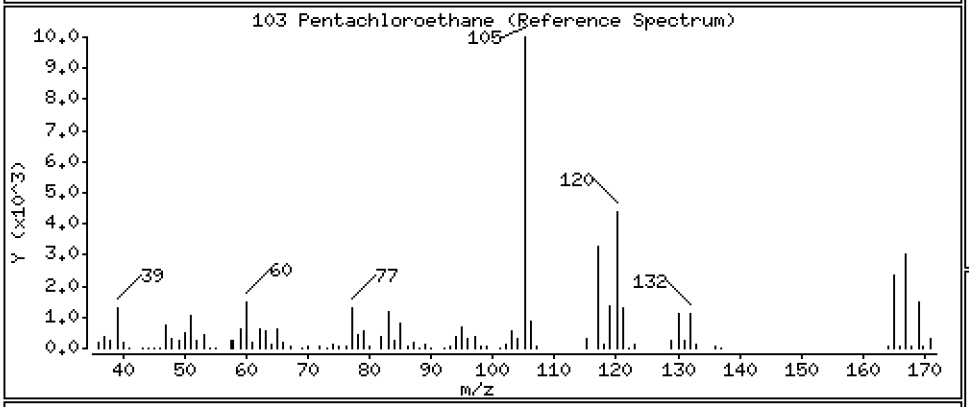
103 Pentachloroethane Concentration: 4.82343 ug/L

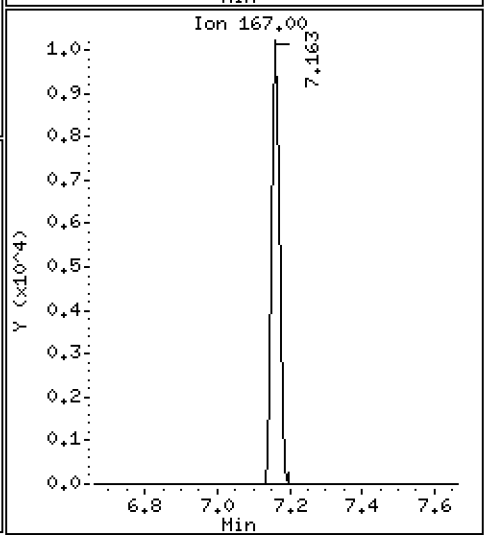


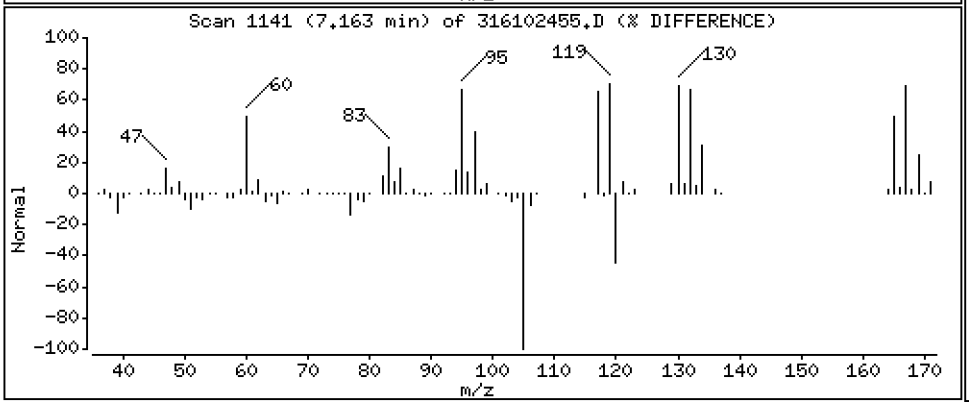












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 105

Date : 25-OCT-2016 00:08

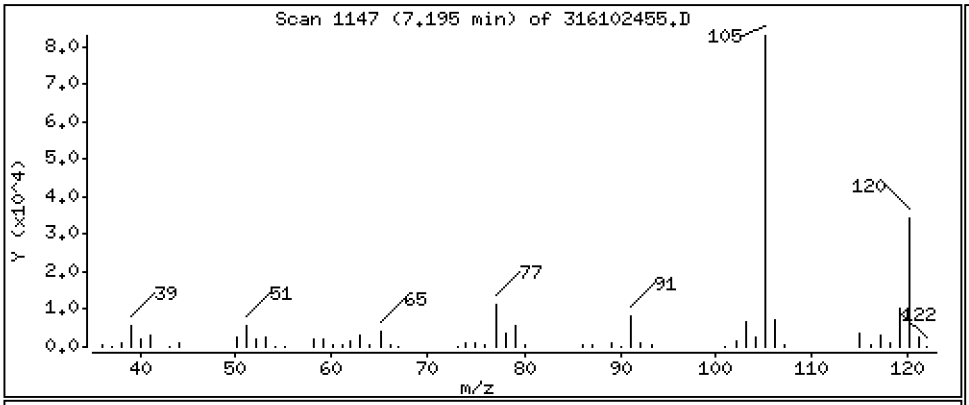
Client ID: Instrument: ms03.i

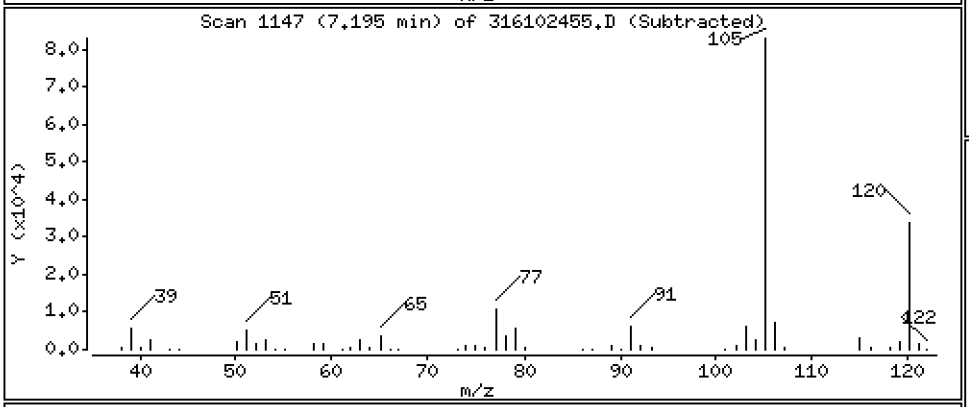
Sample Info: 1235;;1;1;2;;;

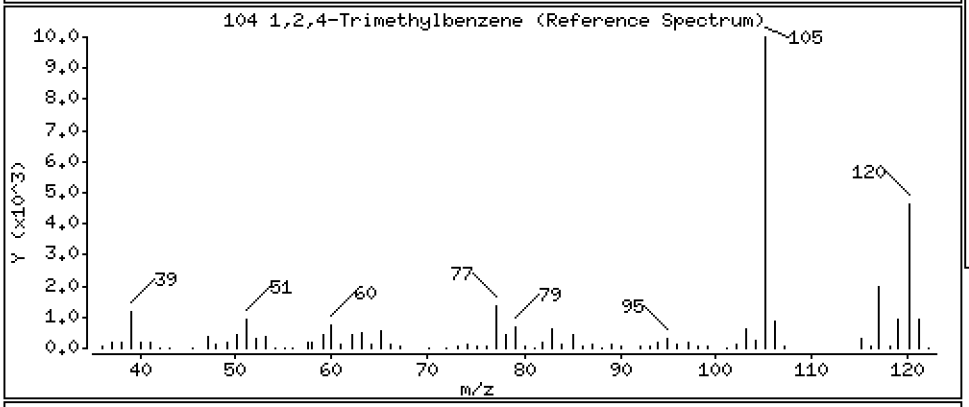
Purge Volume: 5.0 Operator: CJG

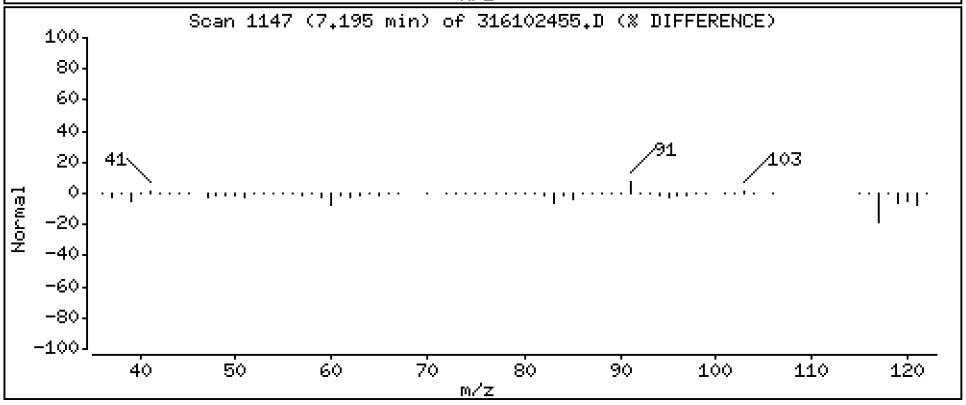
Column phase: DB-VRX Column diameter: 0.25

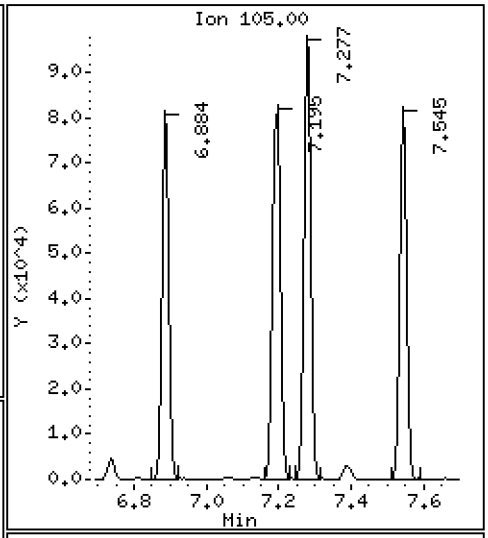
104 1,2,4-Trimethylbenzene Concentration: 5.11496 ug/L

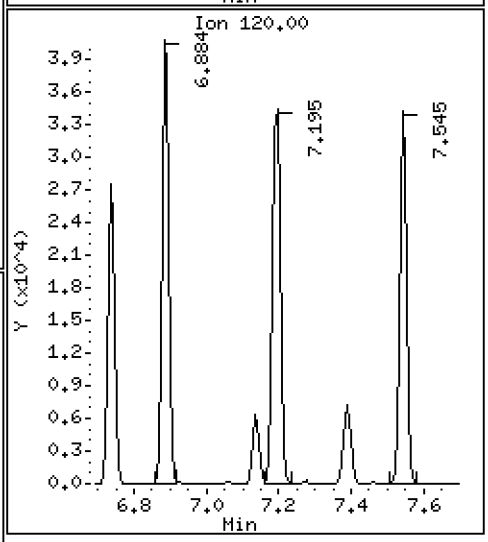












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 106

Date : 25-OCT-2016 00:08

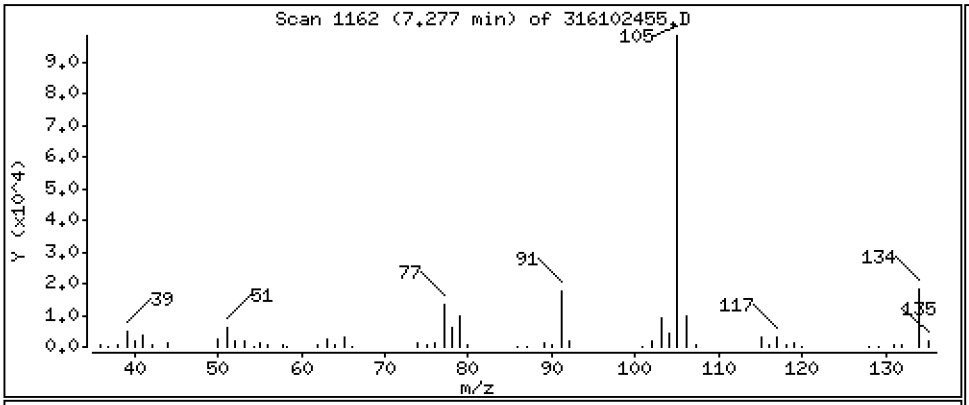
Client ID: Instrument: ms03.i

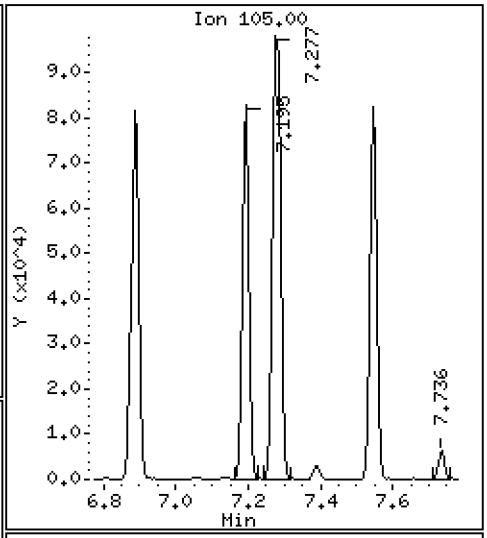
Sample Info: 1235;;1;1;2;;;

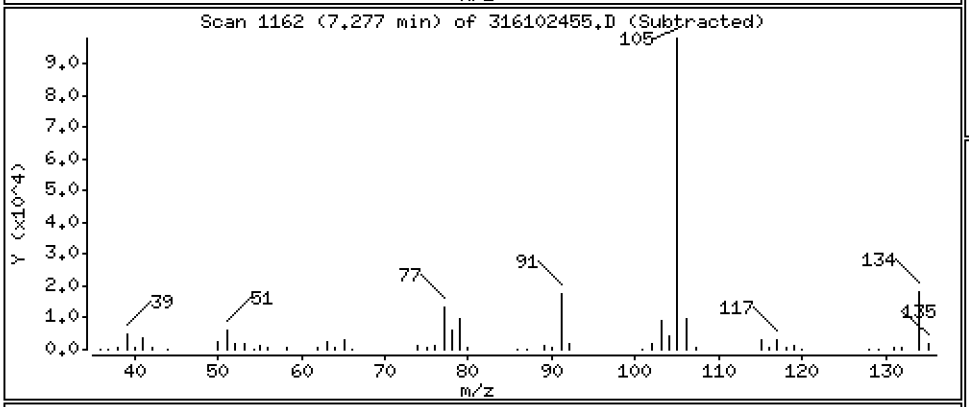
Purge Volume: 5.0 Operator: CJG

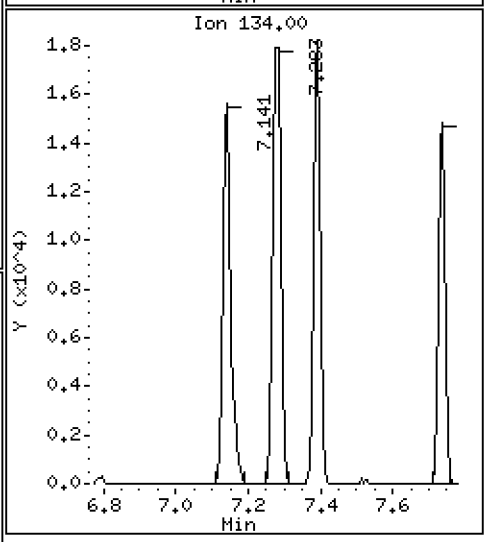
Column phase: DB-VRX Column diameter: 0.25

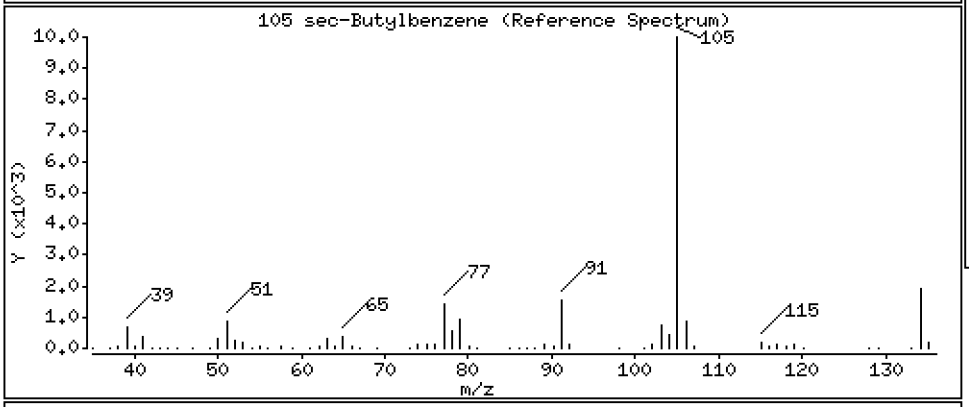
105 sec-Butylbenzene Concentration: 5.18551 ug/L

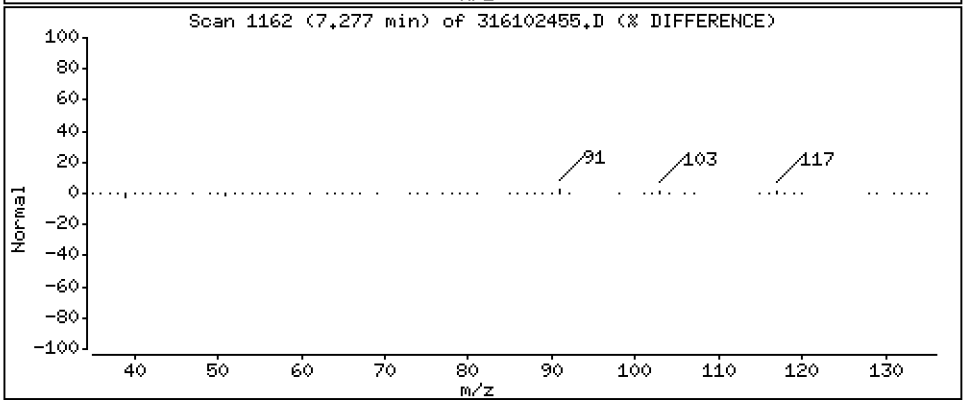












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 107

Date : 25-OCT-2016 00:08

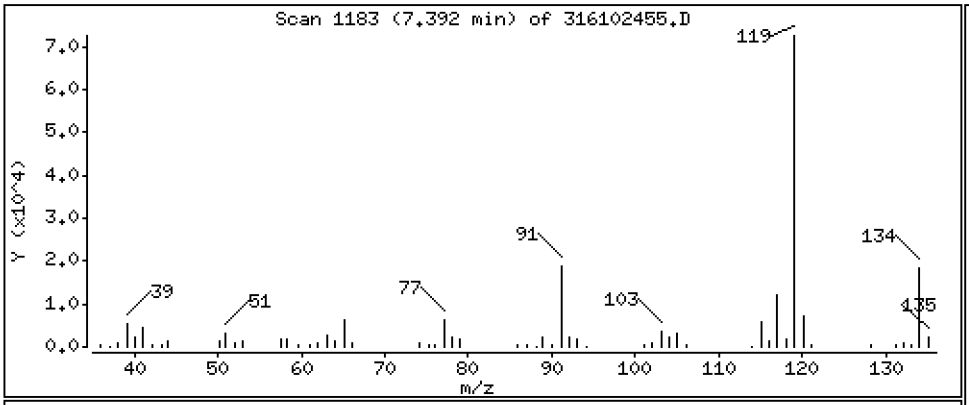
Client ID: Instrument: ms03.i

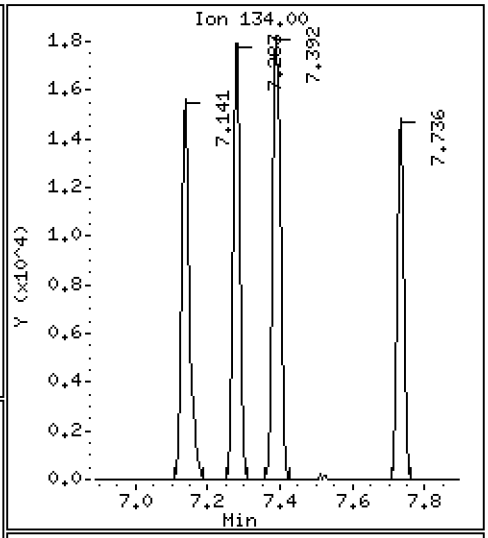
Sample Info: 1235;;1;1;2;;;

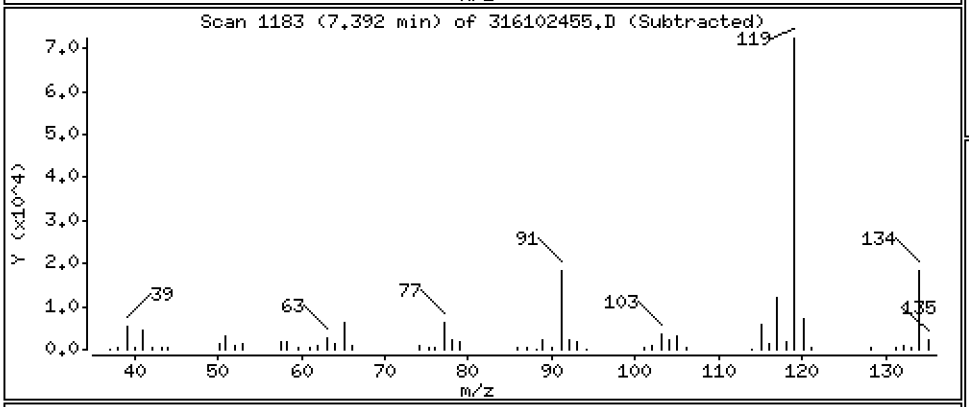
Purge Volume: 5.0 Operator: CJG

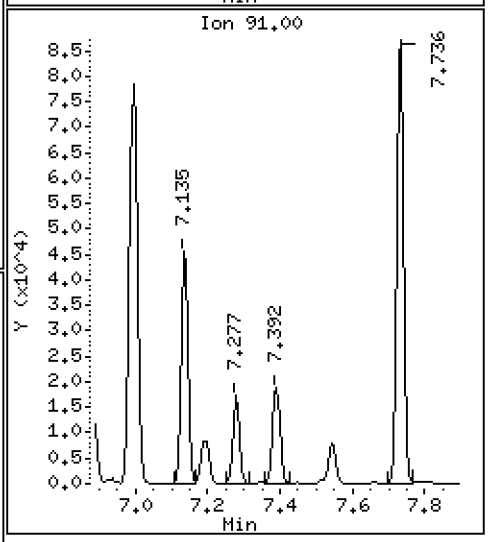
Column phase: DB-VRX Column diameter: 0.25

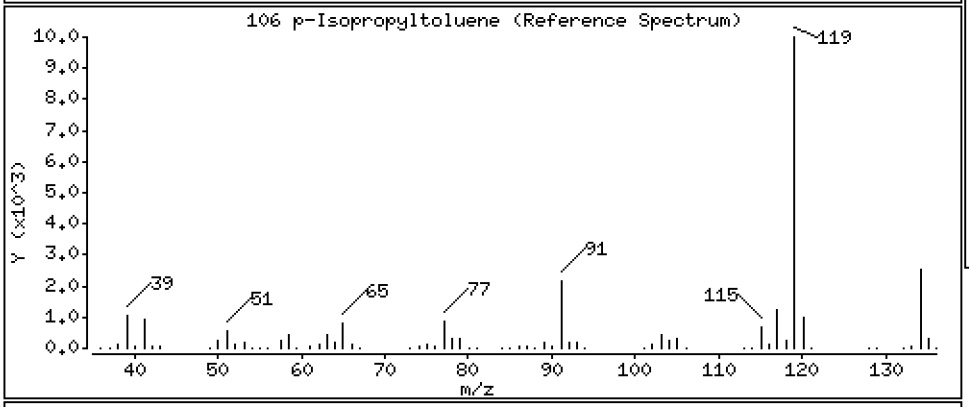
106 p-Isopropyltoluene Concentration: 4.77453 ug/L

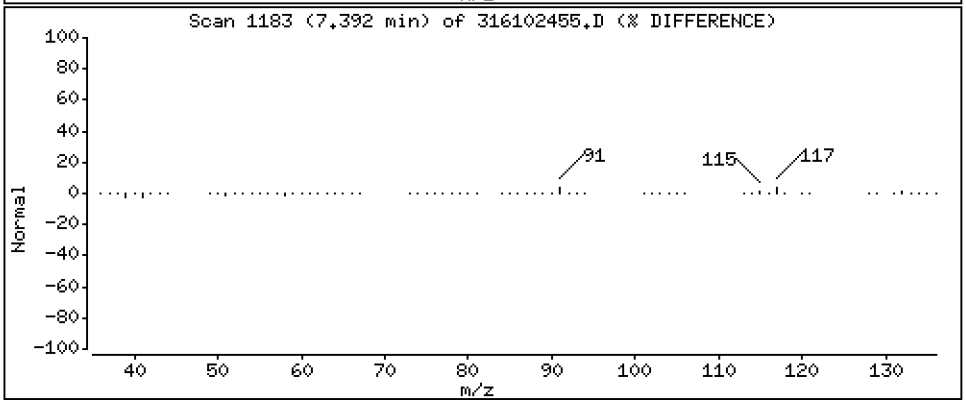












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 108

Date : 25-OCT-2016 00:08

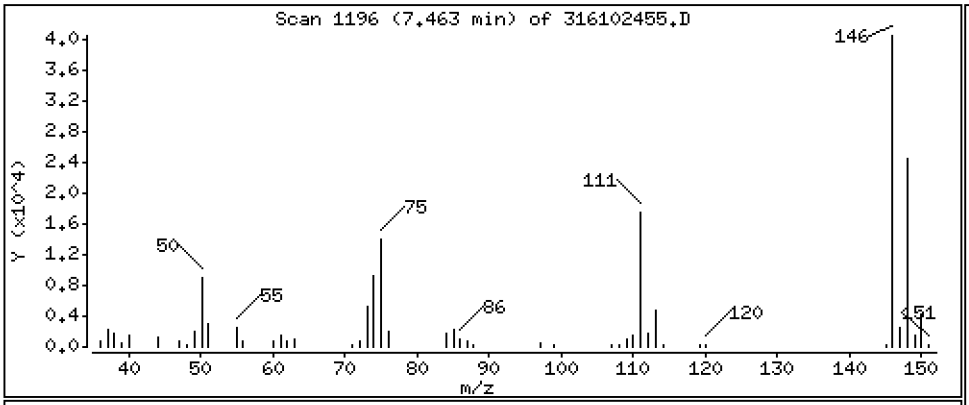
Client ID: Instrument: ms03.i

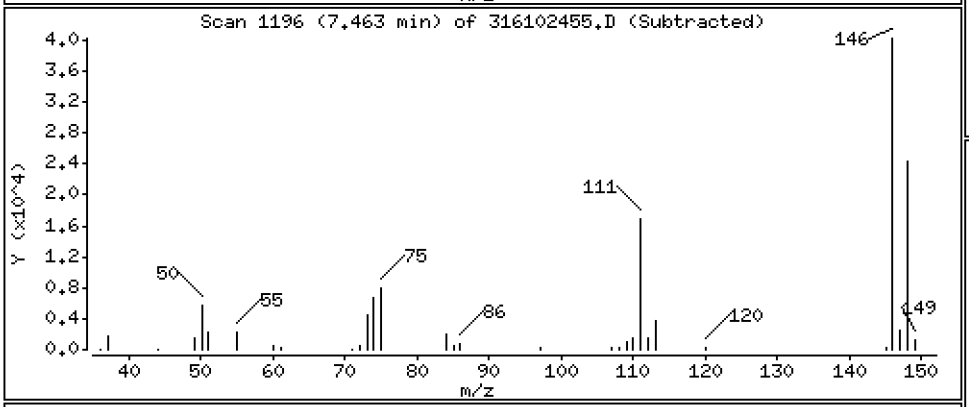
Sample Info: 1235;;1;1;2;;;

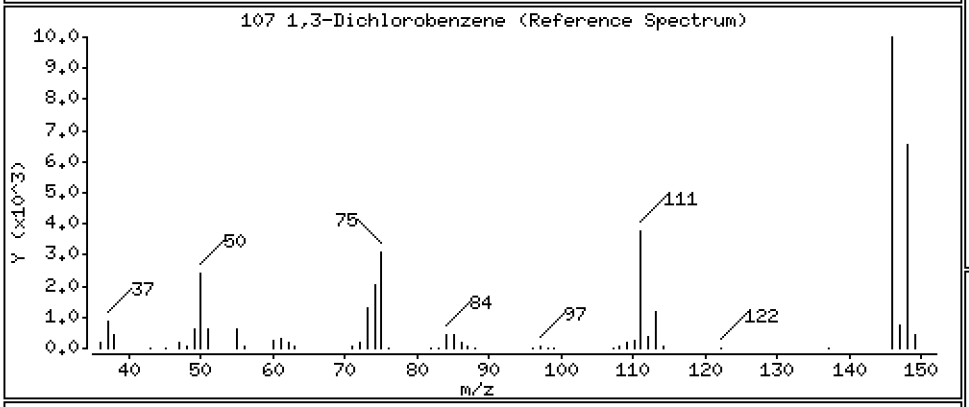
Purge Volume: 5.0 Operator: CJG

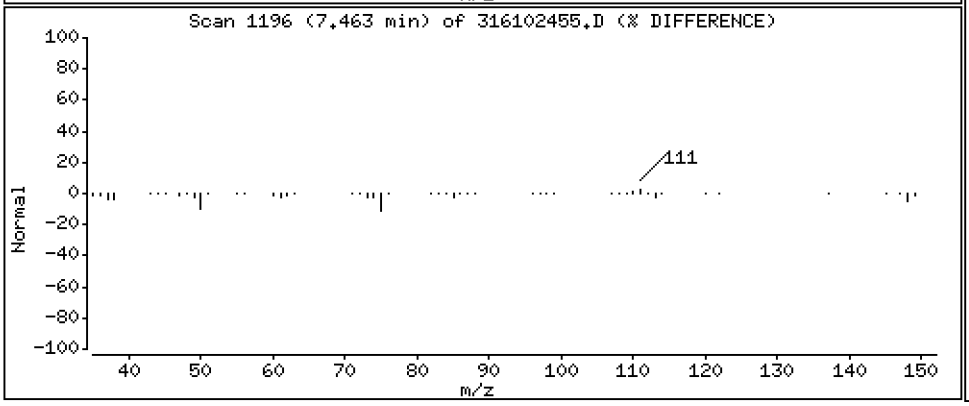
Column phase: DB-VRX Column diameter: 0.25

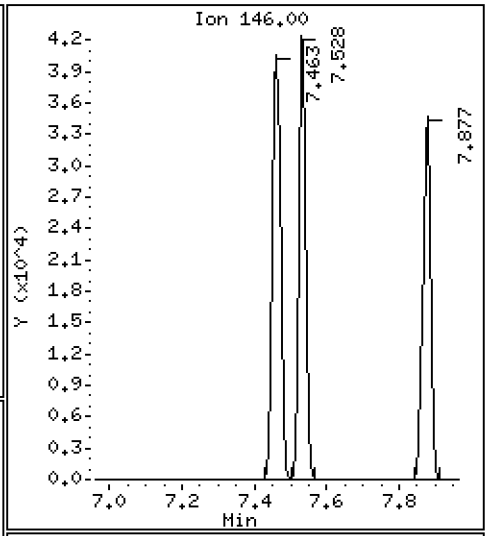
107 1,3-Dichlorobenzene Concentration: 5.73183 ug/L

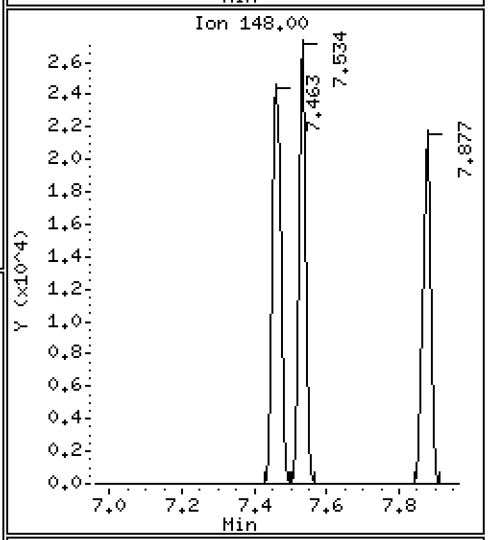


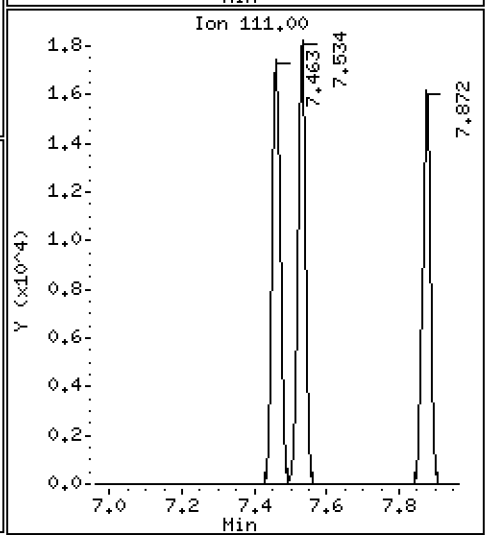












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 109

Date : 25-OCT-2016 00:08

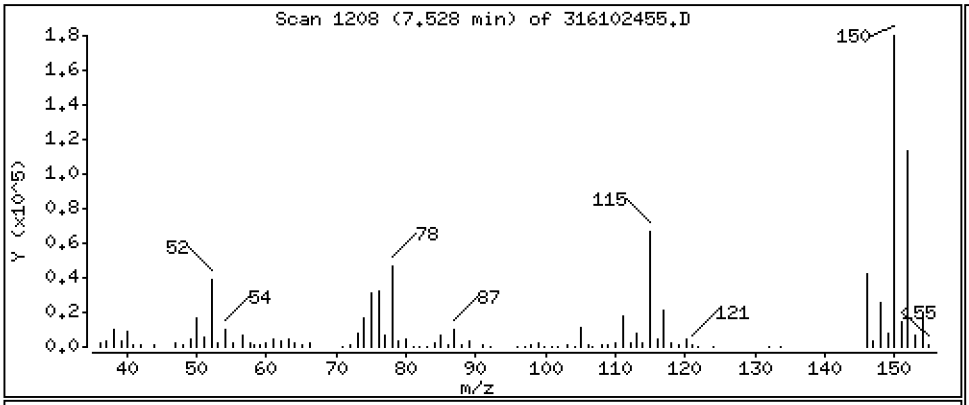
Client ID: Instrument: ms03.i

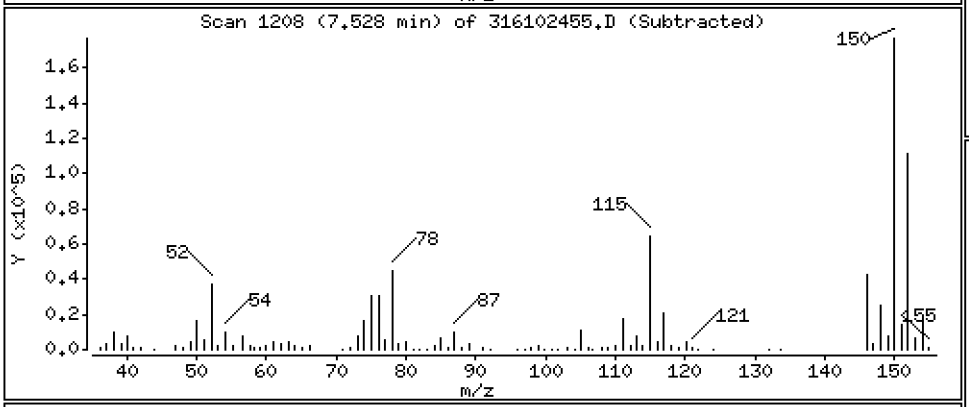
Sample Info: 1235;;1;1;2;;;

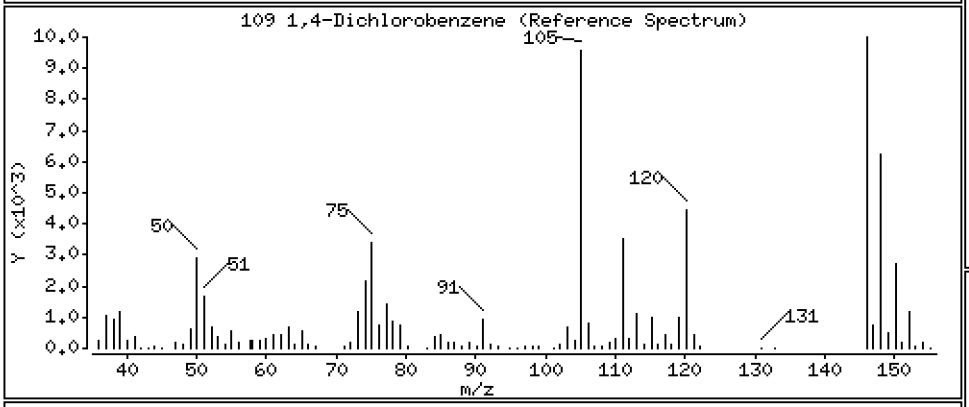
Purge Volume: 5.0 Operator: CJG

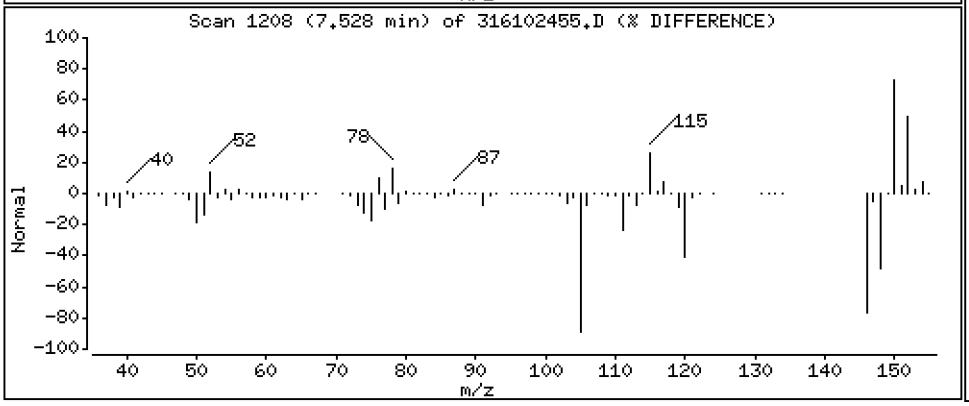
Column phase: DB-VRX Column diameter: 0.25

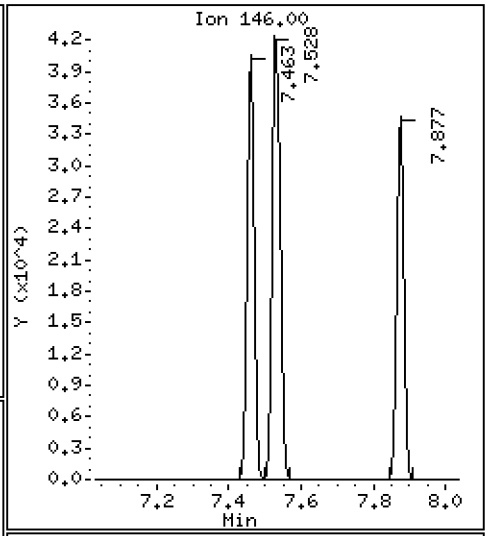
109 1,4-Dichlorobenzene Concentration: 5.77243 ug/L

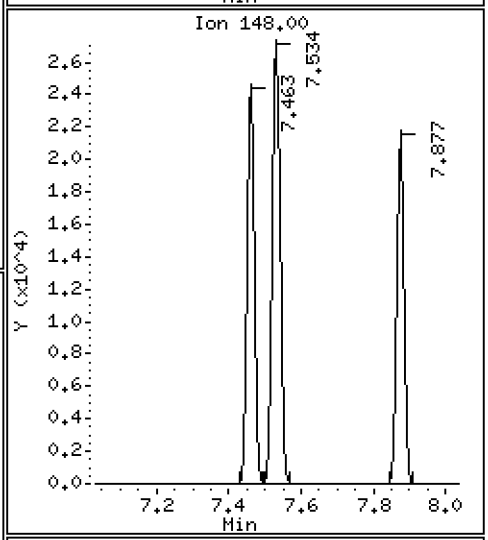


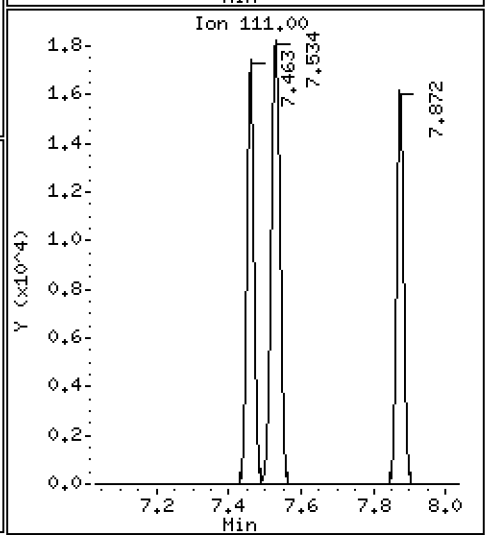












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 110

Date : 25-OCT-2016 00:08

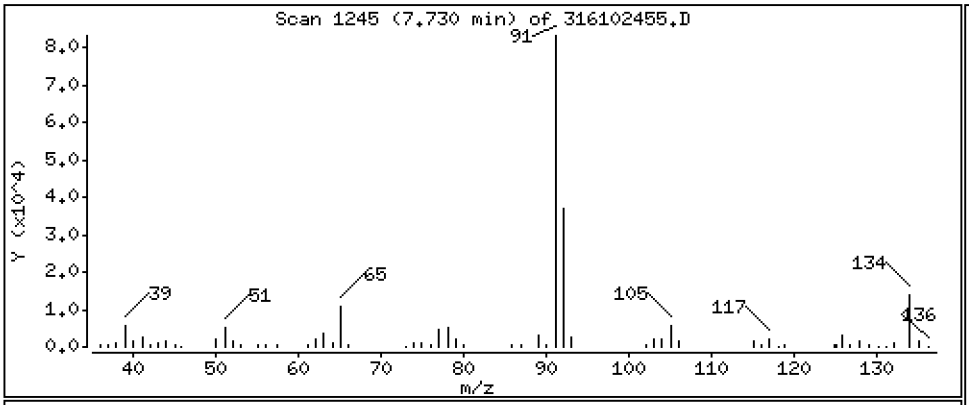
Client ID: Instrument: ms03.i

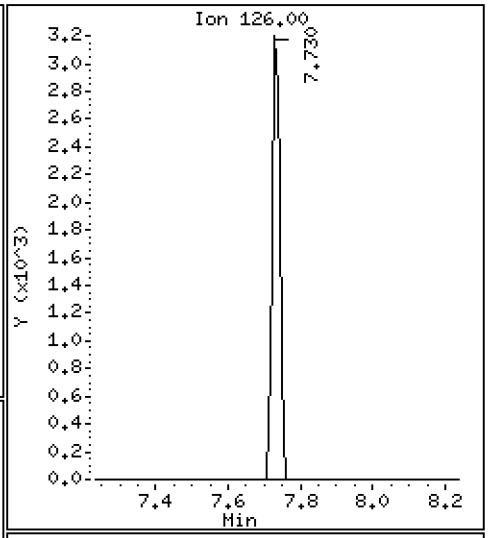
Sample Info: 1235;;1;1;2;;;

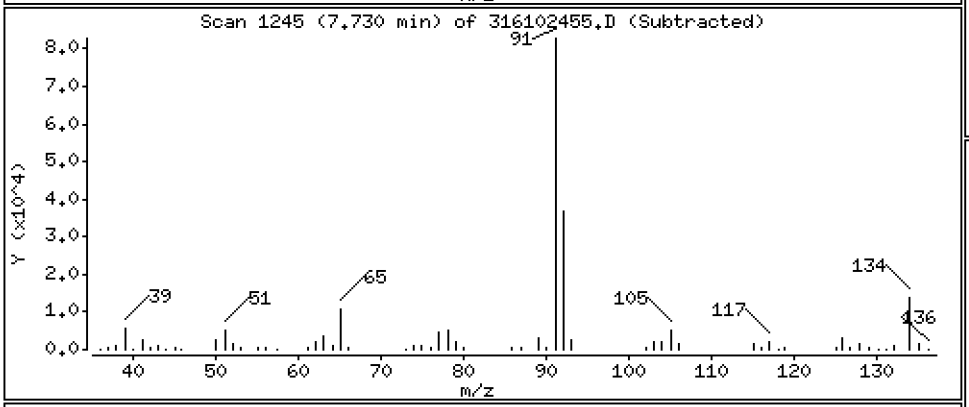
Purge Volume: 5.0 Operator: CJG

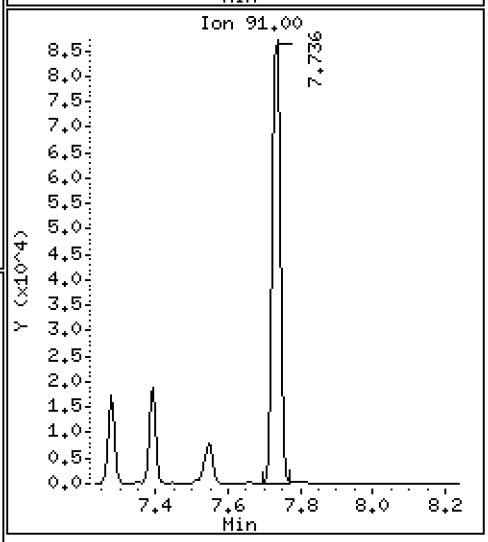
Column phase: DB-VRX Column diameter: 0.25

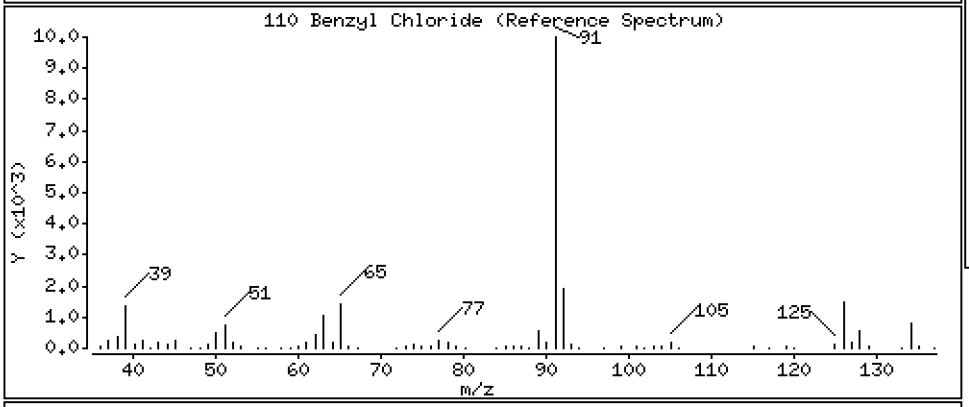
110 Benzyl Chloride Concentration: 3.26328 ug/L

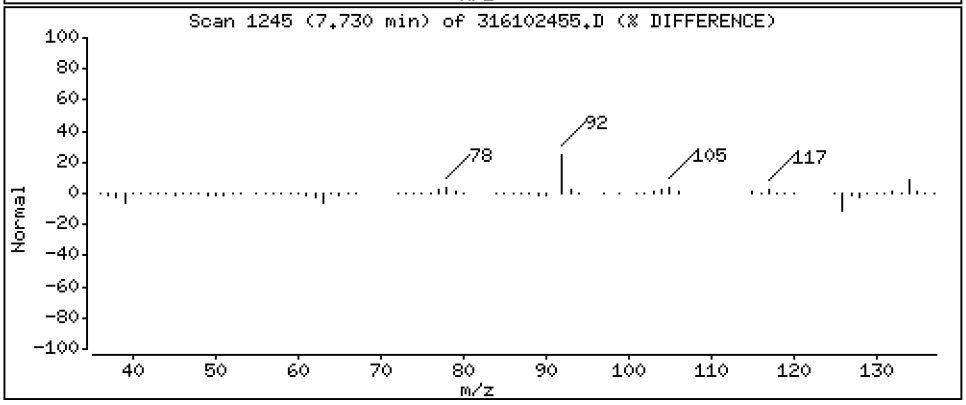












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 111

Date : 25-OCT-2016 00:08

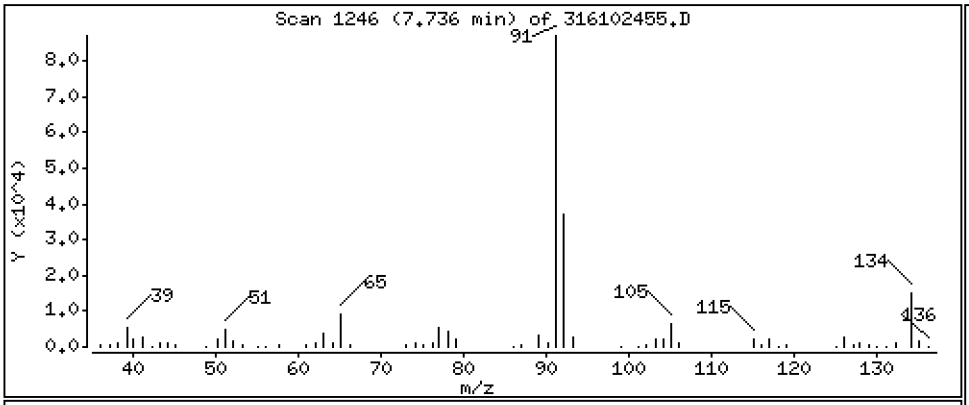
Client ID: Instrument: ms03.i

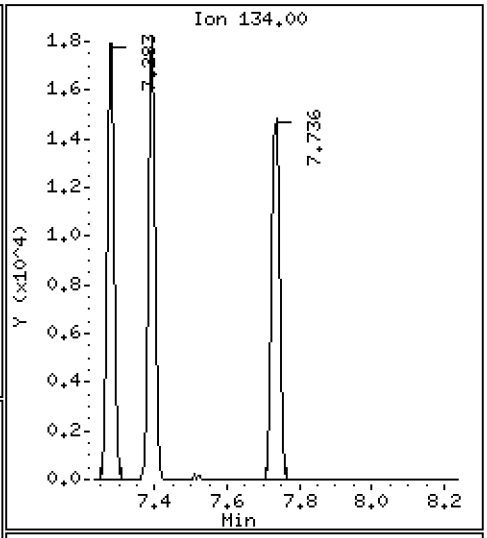
Sample Info: 1235;;1;1;2;;;

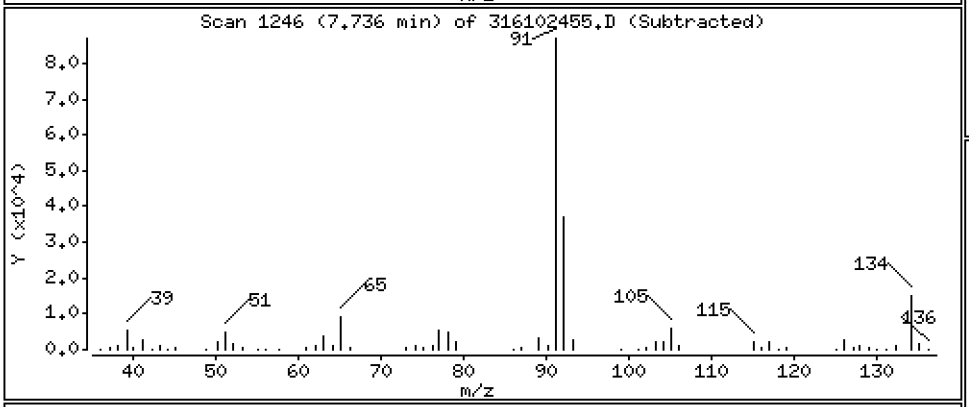
Purge Volume: 5.0 Operator: CJG

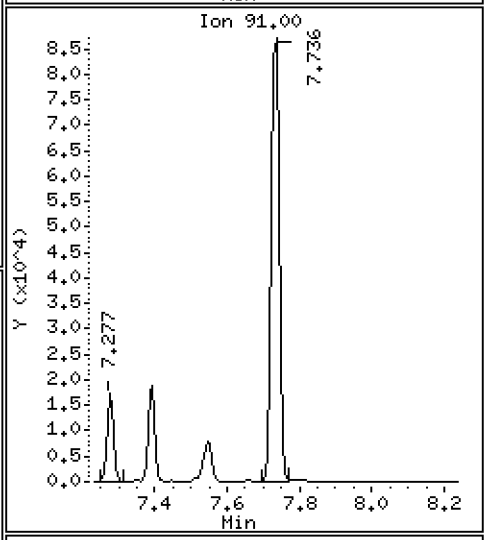
Column phase: DB-VRX Column diameter: 0.25

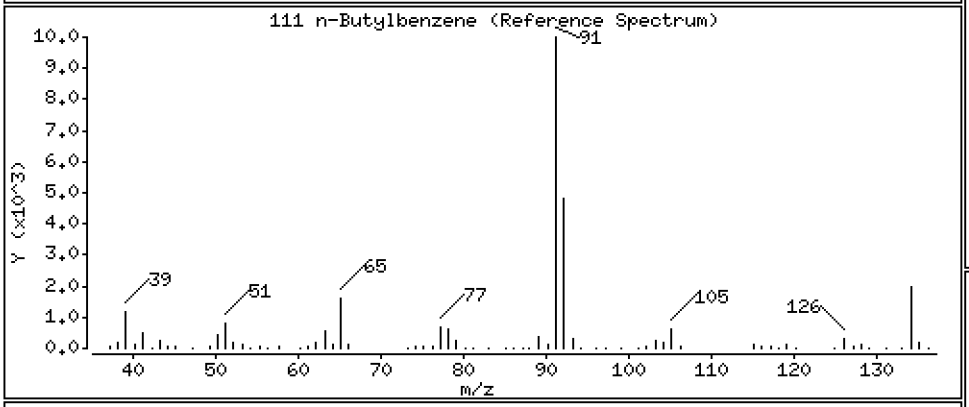
111 n-Butylbenzene Concentration: 4.59482 ug/L

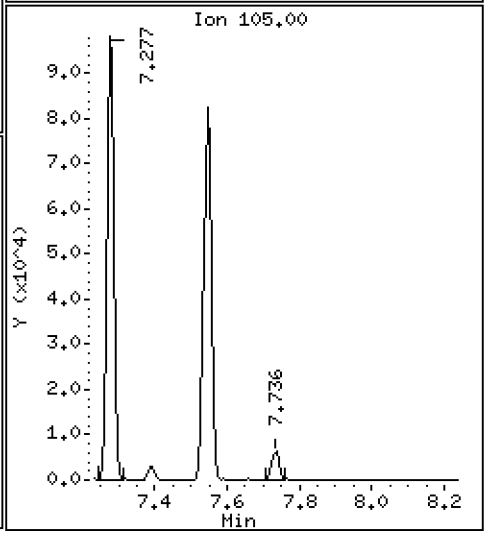


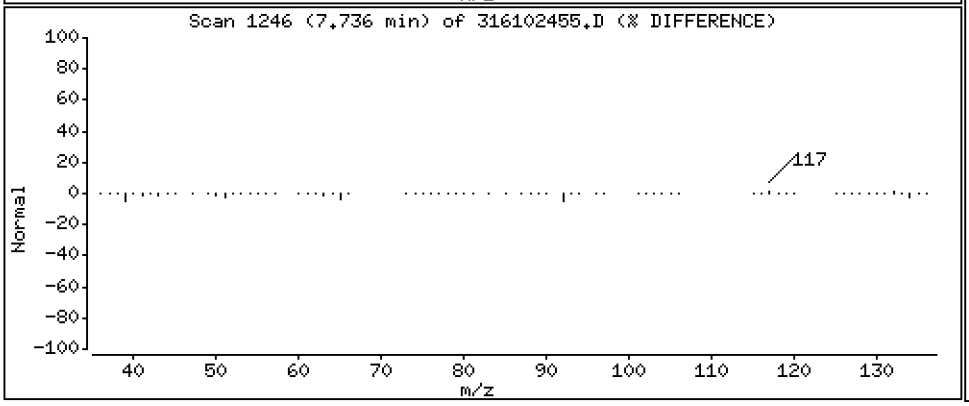












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 112

Date : 25-OCT-2016 00:08

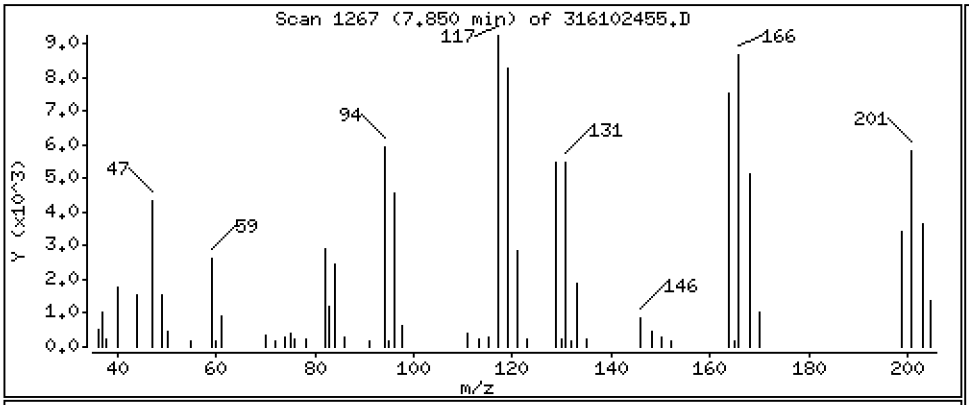
Client ID: Instrument: ms03.i

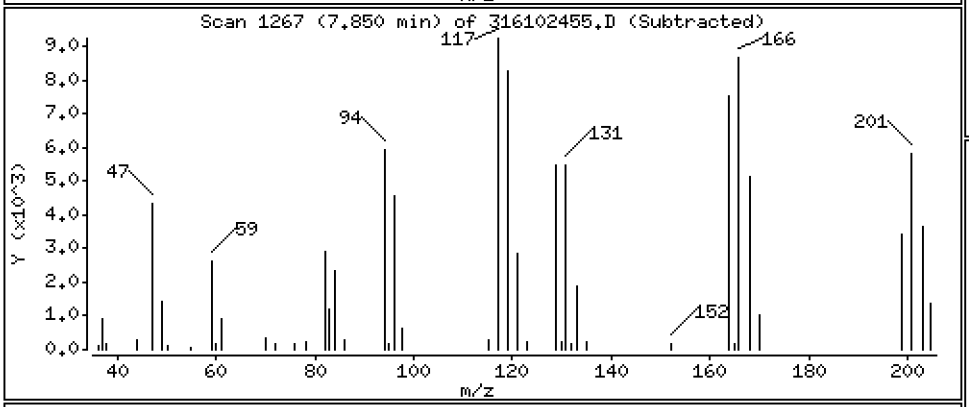
Sample Info: 1235;;1;1;2;;;

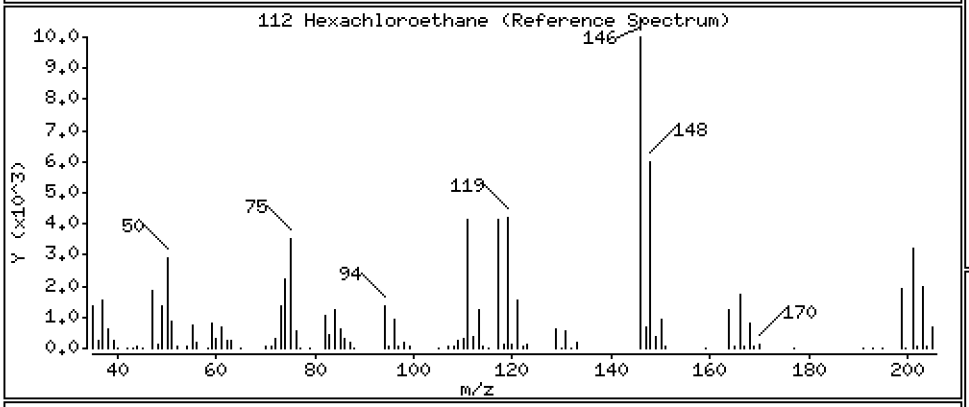
Purge Volume: 5.0 Operator: CJG

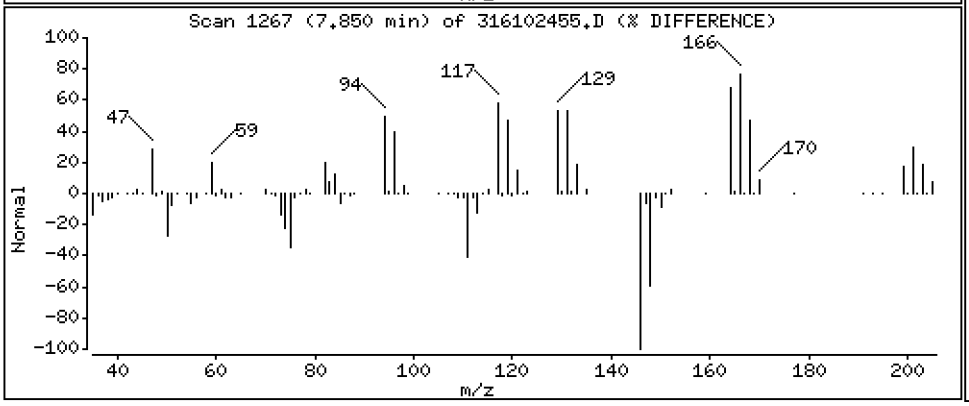
Column phase: DB-VRX Column diameter: 0.25

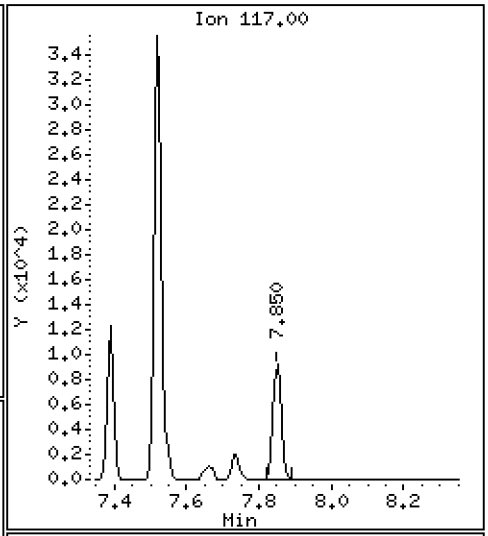
112 Hexachloroethane Concentration: 4.50141 ug/L

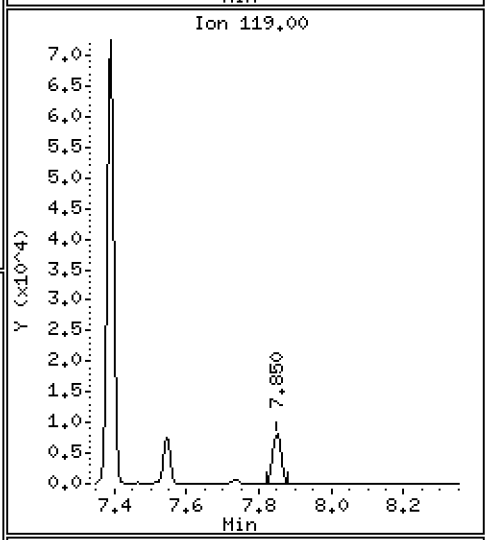


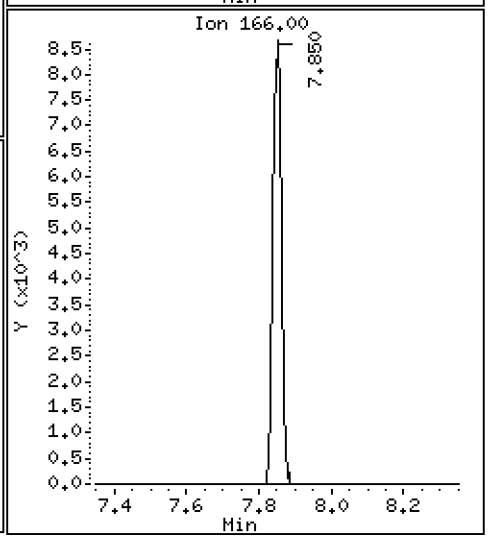












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 113

Date : 25-OCT-2016 00:08

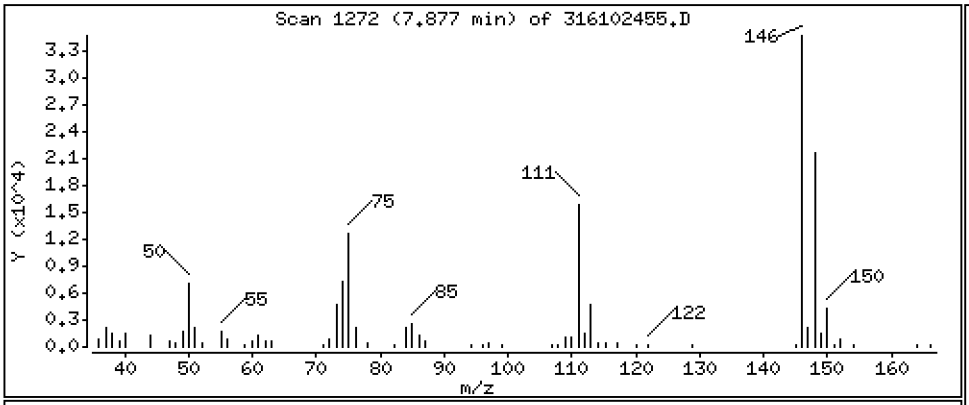
Client ID: Instrument: ms03.i

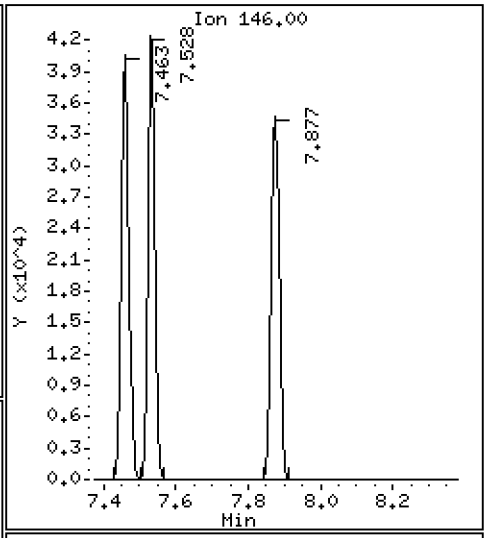
Sample Info: 1235;;1;1;2;;;

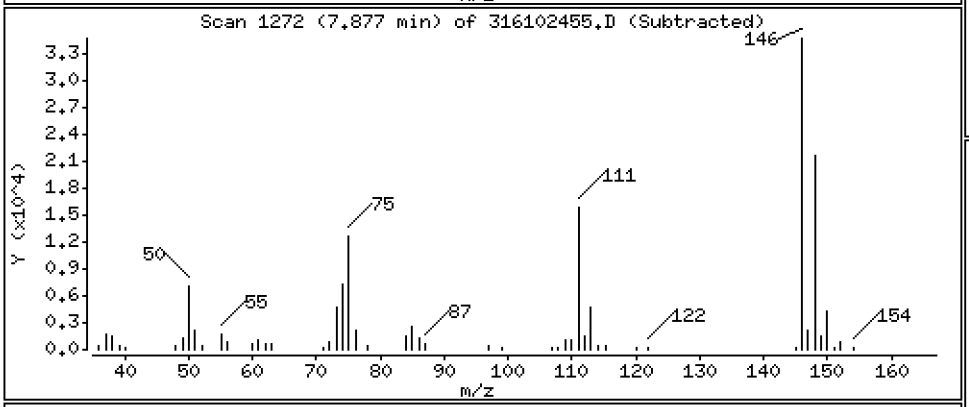
Purge Volume: 5.0 Operator: CJG

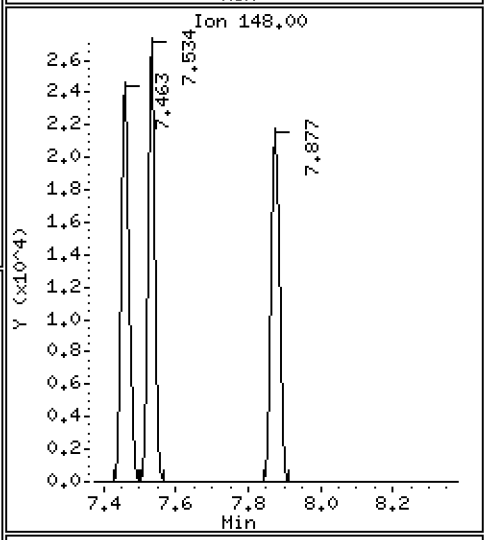
Column phase: DB-VRX Column diameter: 0.25

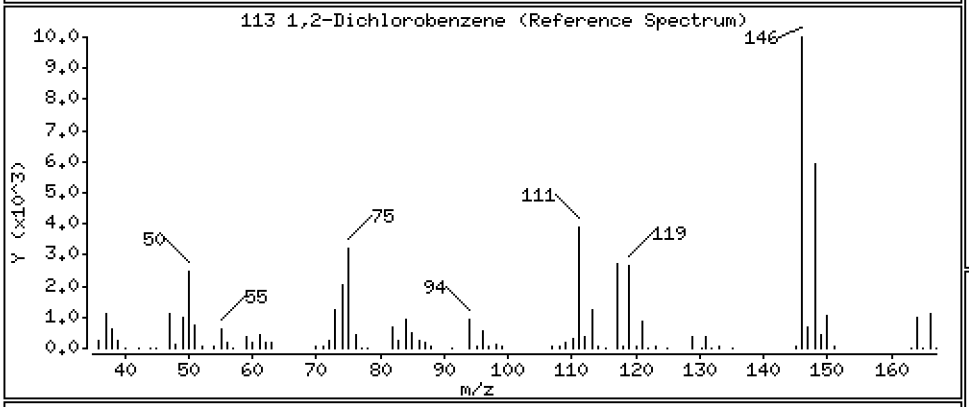
113 1,2-Dichlorobenzene Concentration: 5.44857 ug/L

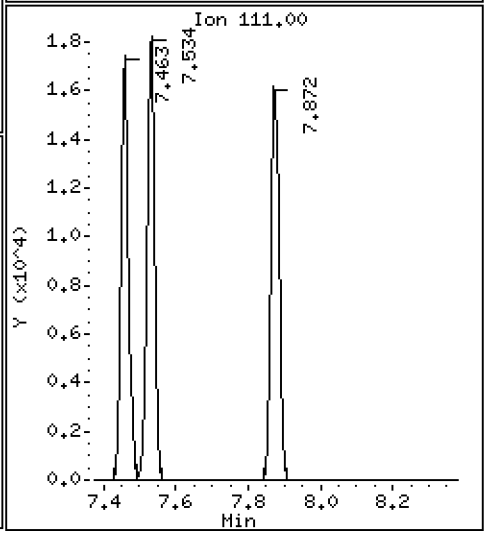


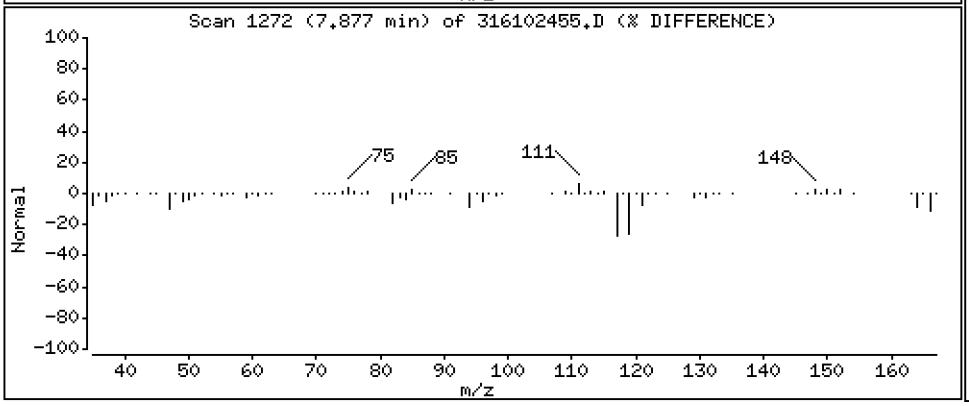












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 114

Date : 25-OCT-2016 00:08

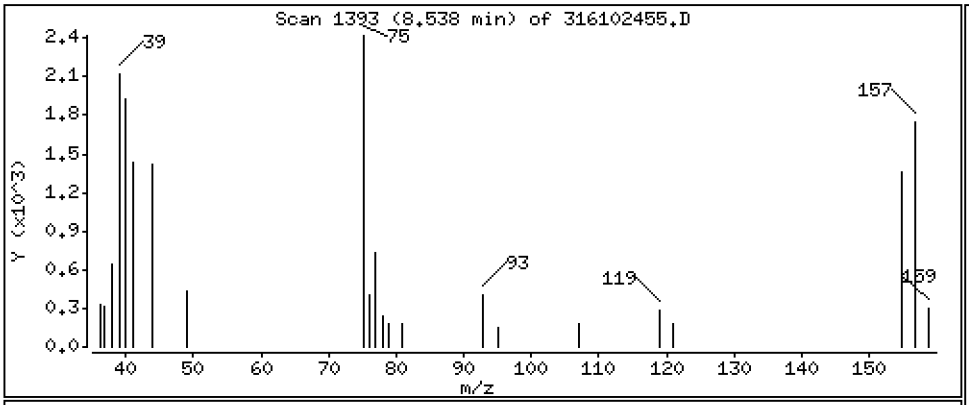
Client ID: Instrument: ms03.i

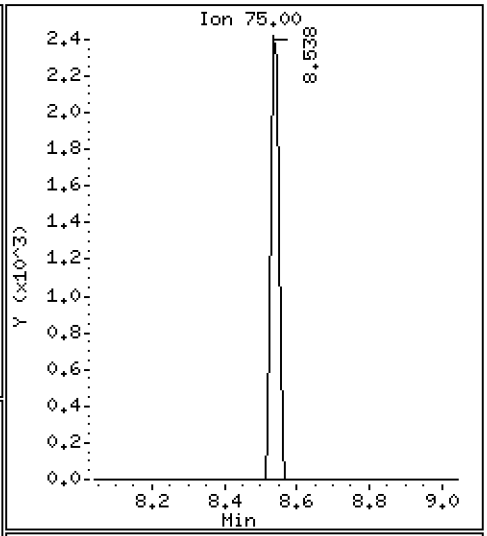
Sample Info: 1235;;1;1;2;;;

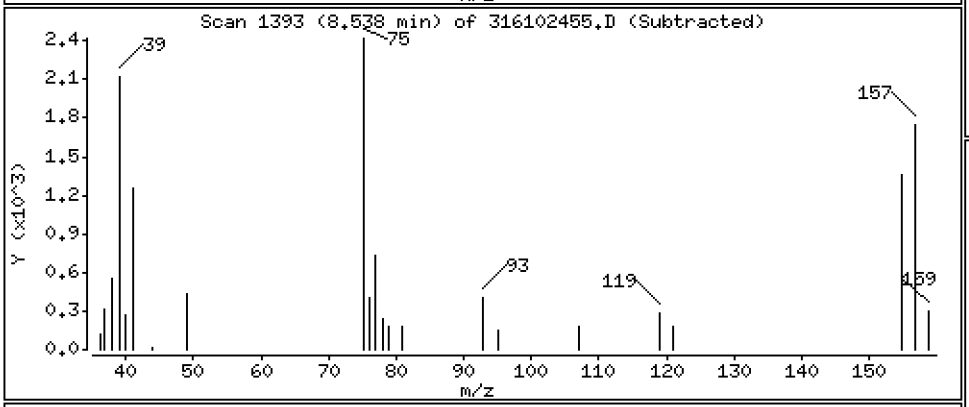
Purge Volume: 5.0 Operator: CJG

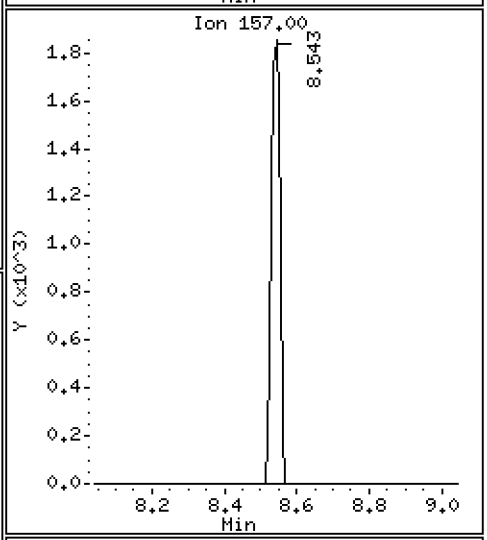
Column phase: DB-VRX Column diameter: 0.25

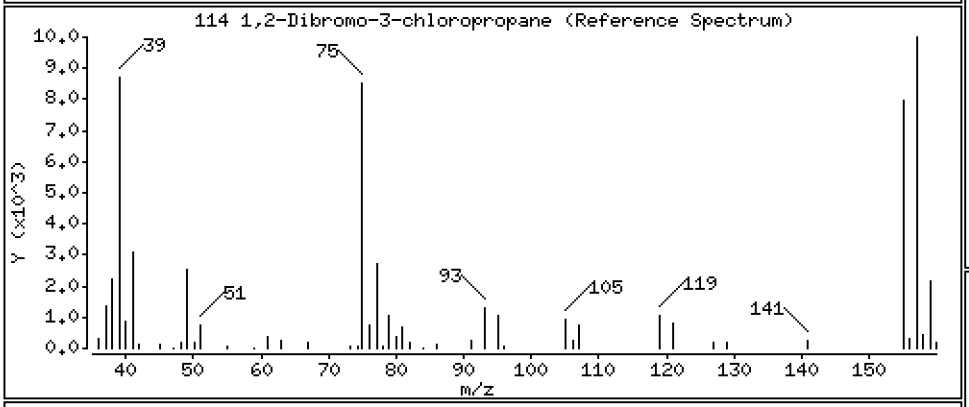
114 1,2-Dibromo-3-chloropropane Concentration: 4.52665 ug/L

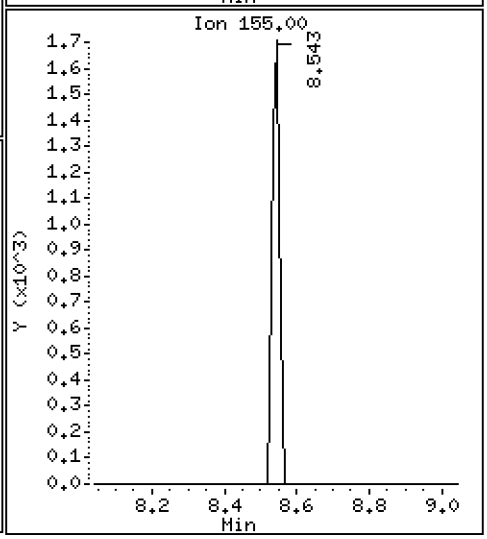


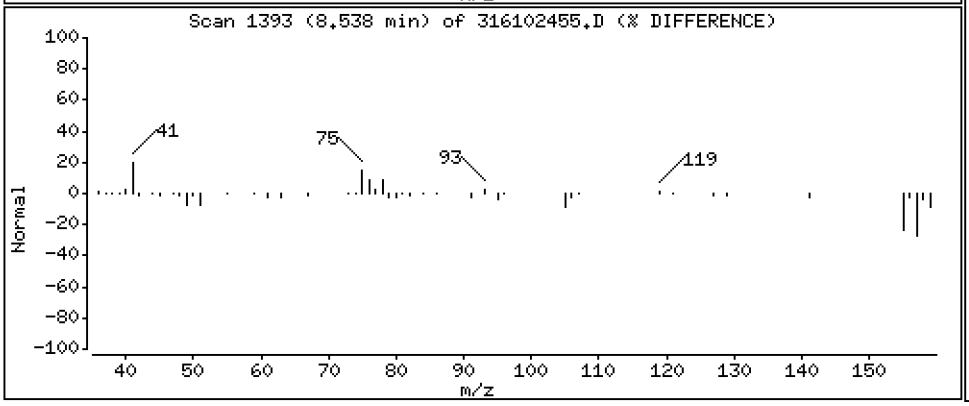












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 115

Date : 25-OCT-2016 00:08

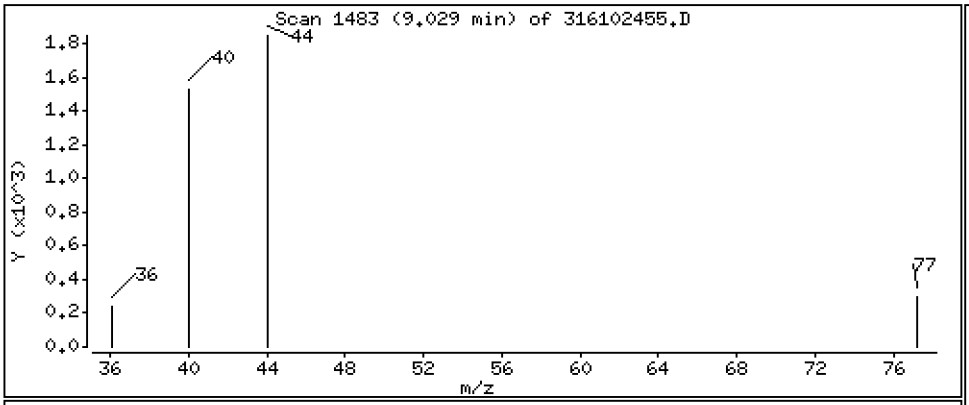
Client ID: Instrument: ms03.i

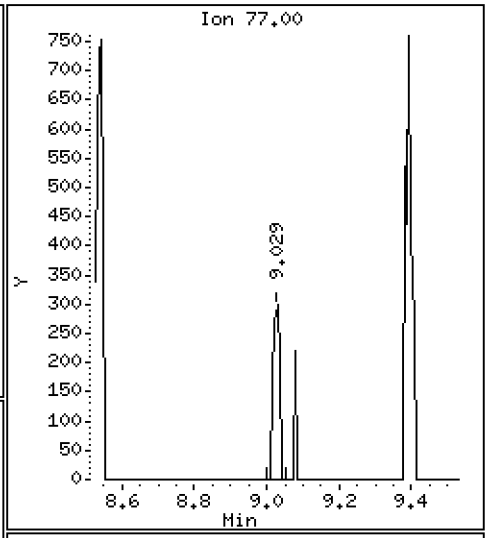
Sample Info: 1235;;1;1;2;;;

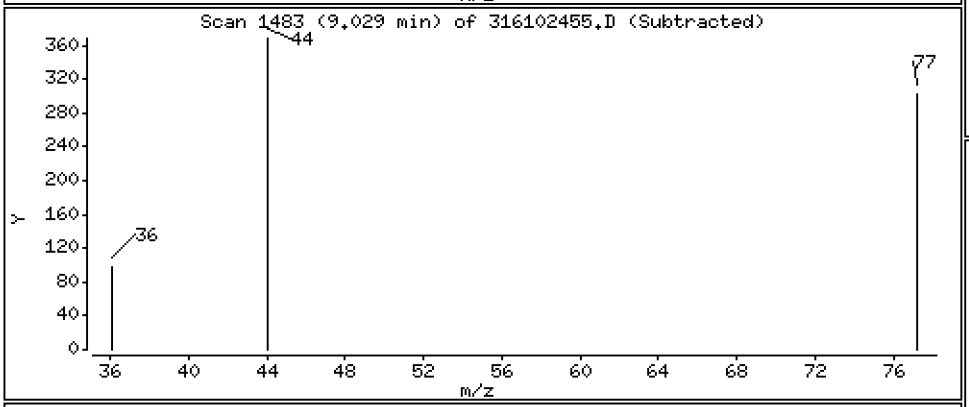
Purge Volume: 5.0 Operator: CJG

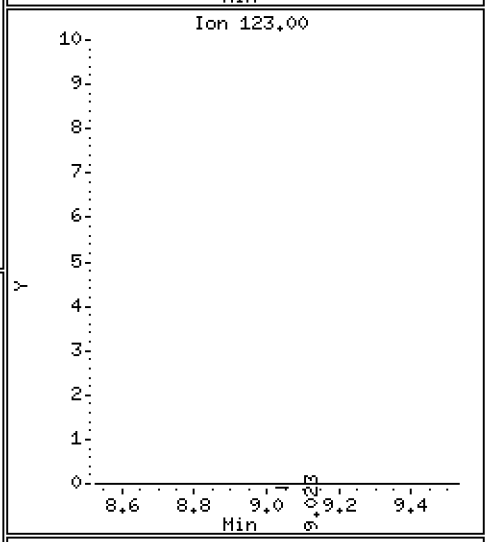
Column phase: DB-VRX Column diameter: 0.25

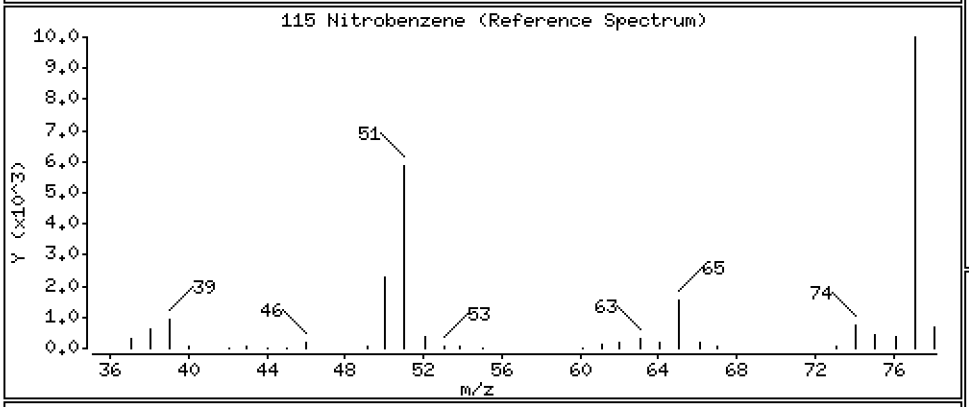
115 Nitrobenzene Concentration: 102.889 ug/L

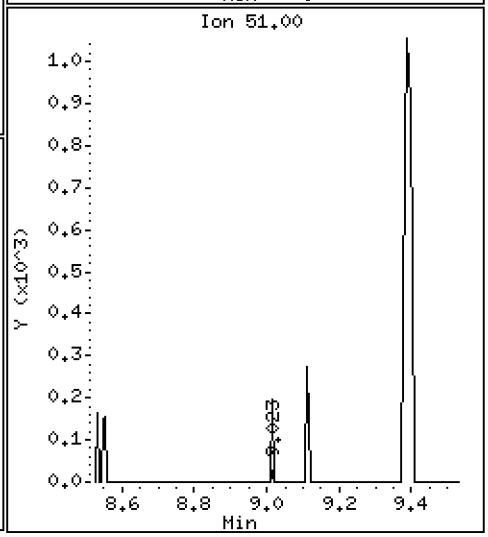


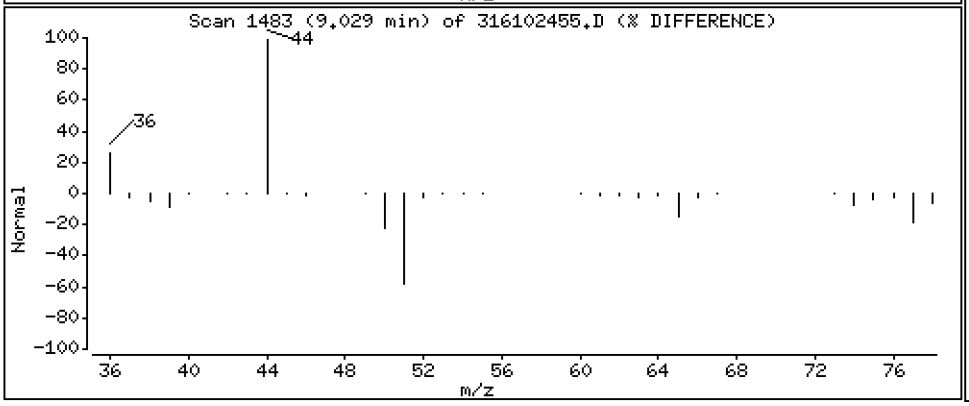












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 116

Date : 25-OCT-2016 00:08

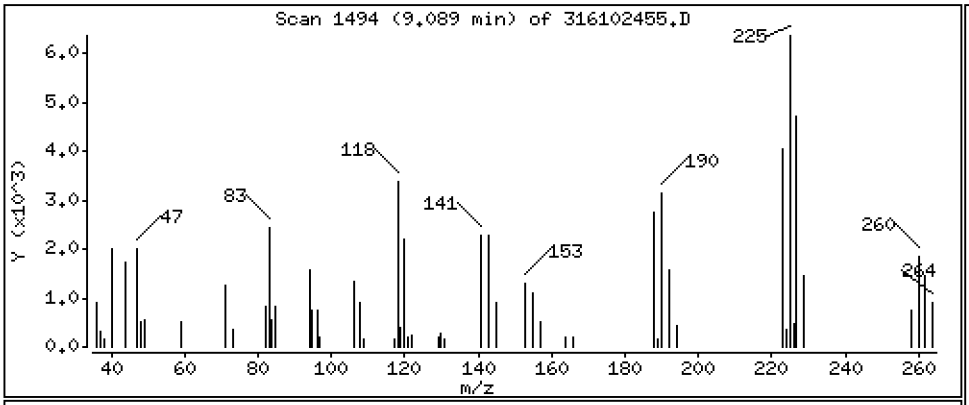
Client ID: Instrument: ms03.i

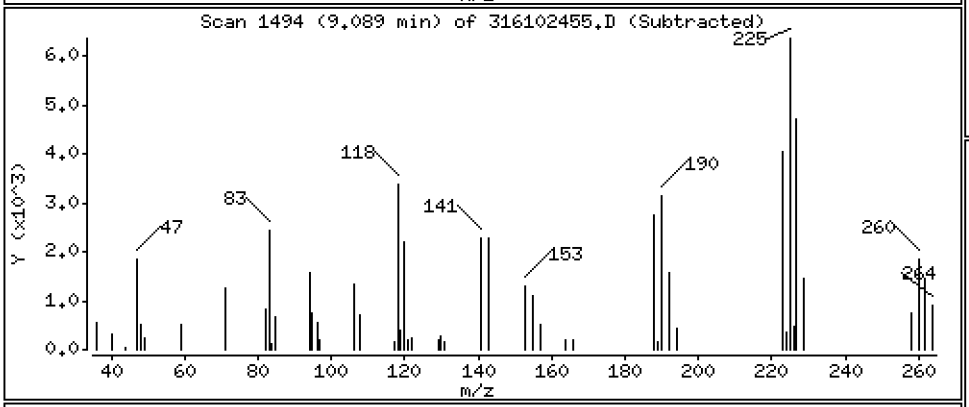
Sample Info: 1235;;1;1;2;;;

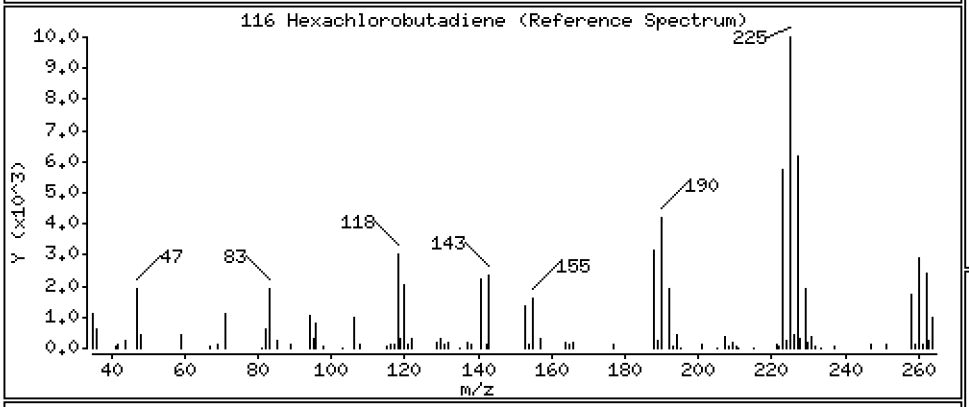
Purge Volume: 5.0 Operator: CJG

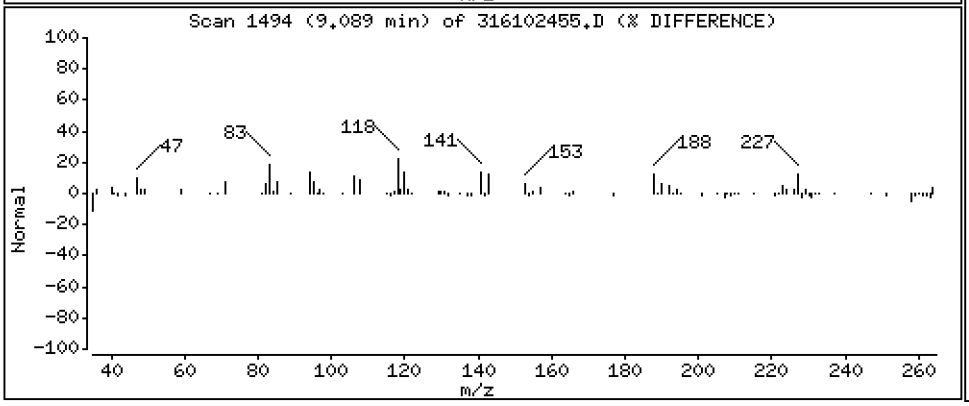
Column phase: DB-VRX Column diameter: 0.25

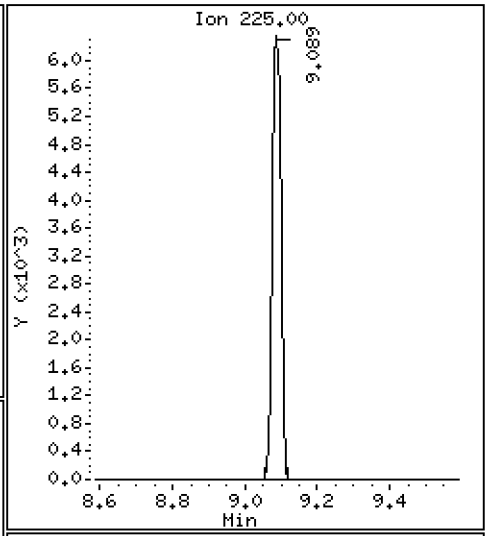
116 Hexachlorobutadiene Concentration: 5.58003 ug/L

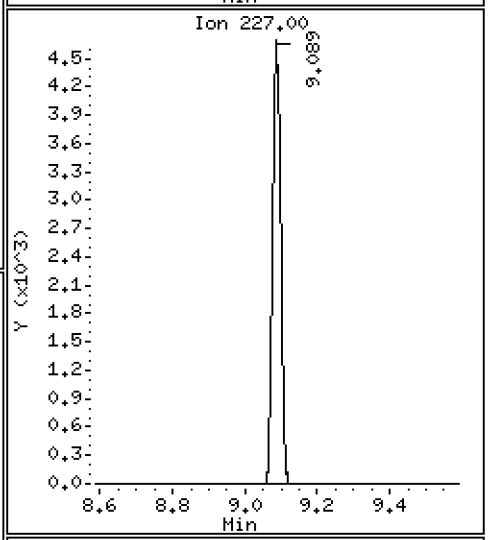


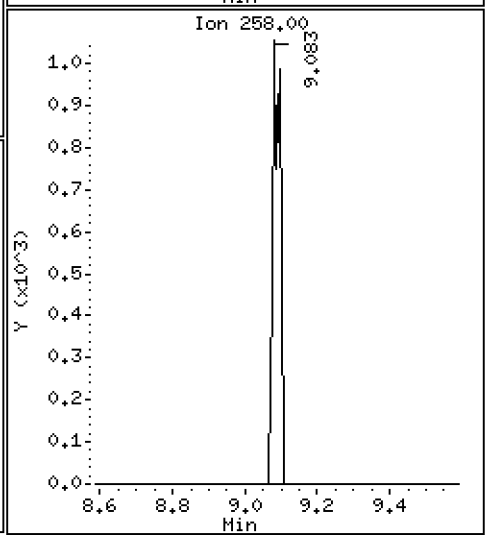












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 117

Date : 25-OCT-2016 00:08

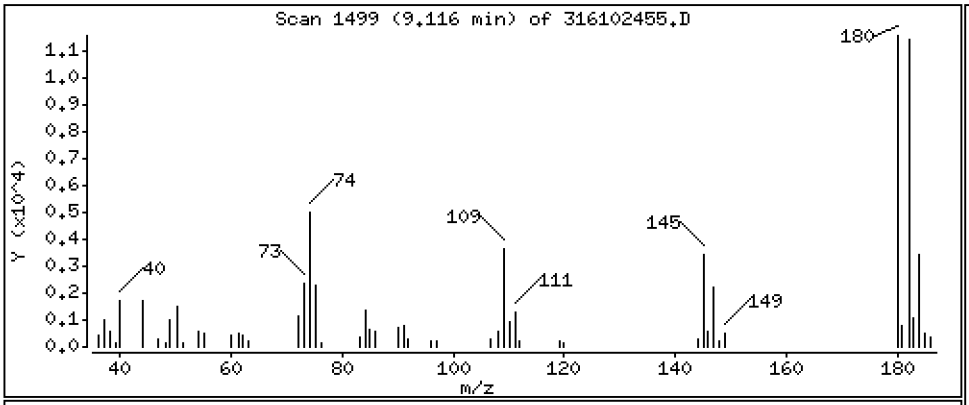
Client ID: Instrument: ms03.i

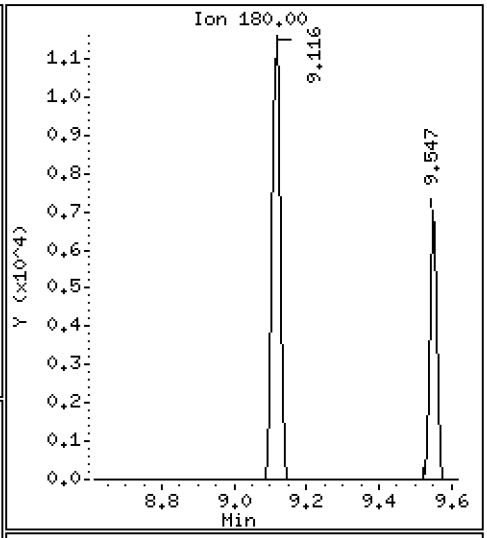
Sample Info: 1235;;1;1;2;;;

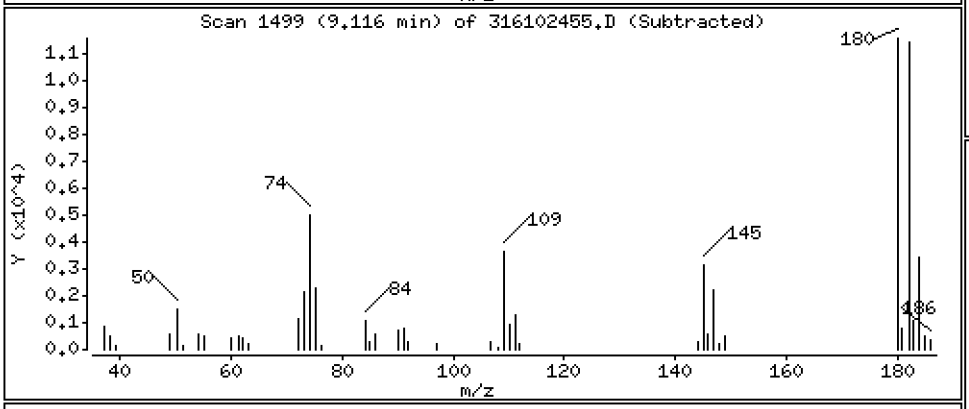
Purge Volume: 5.0 Operator: CJG

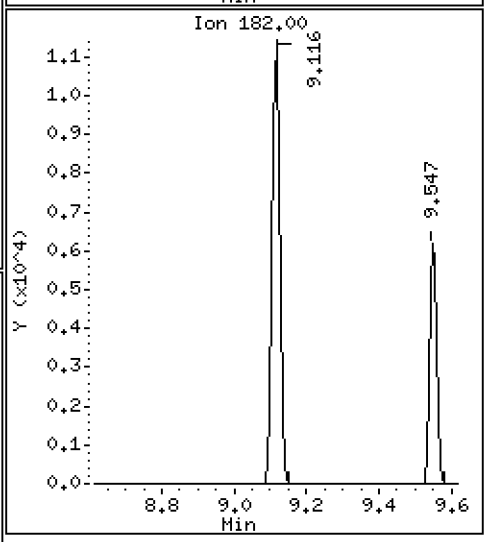
Column phase: DB-VRX Column diameter: 0.25

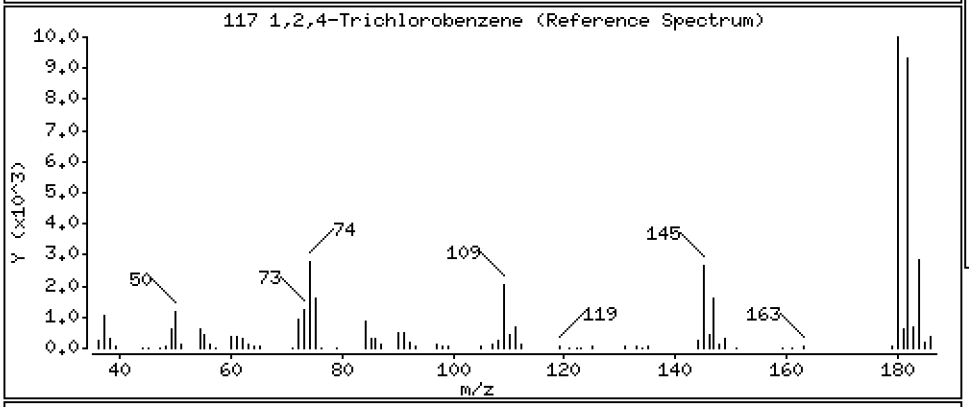
117 1,2,4-Trichlorobenzene Concentration: 4.19371 ug/L

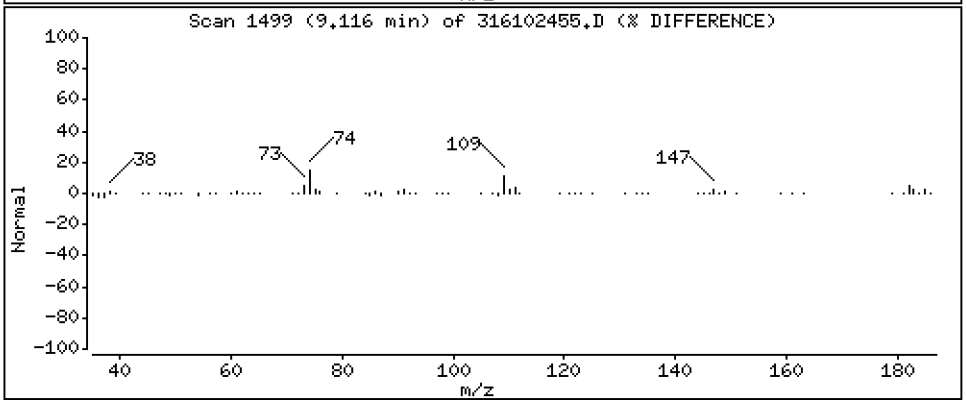












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 118

Date : 25-OCT-2016 00:08

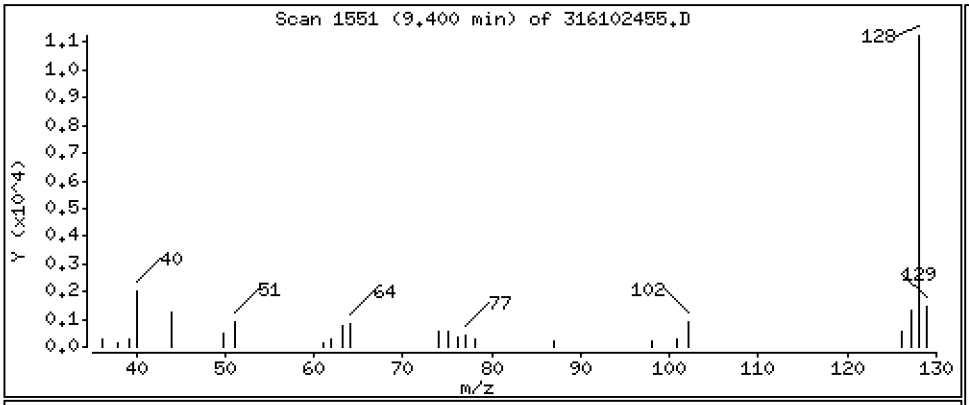
Client ID: Instrument: ms03.i

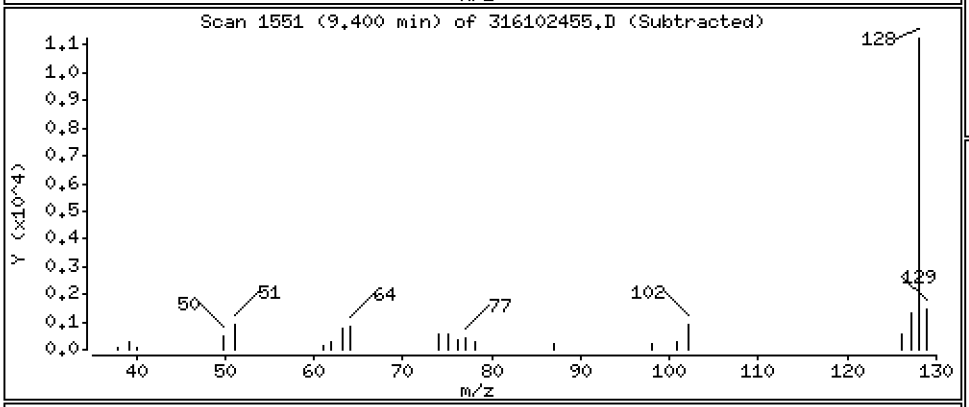
Sample Info: 1235;;1;1;2;;;

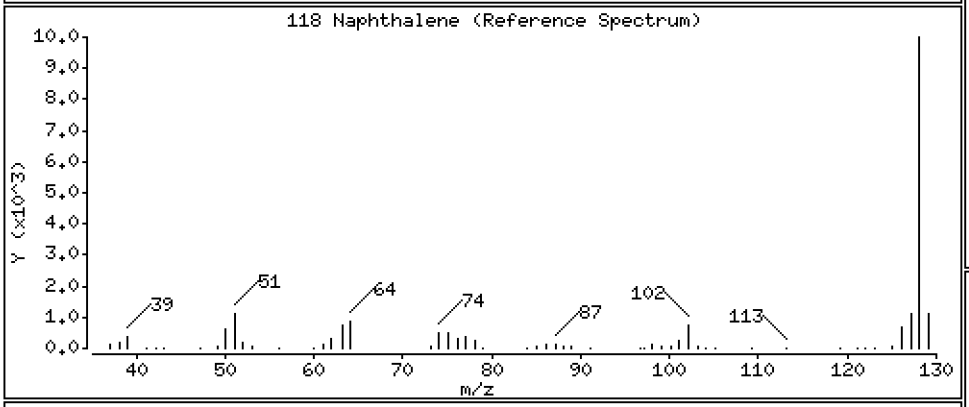
Purge Volume: 5.0 Operator: CJG

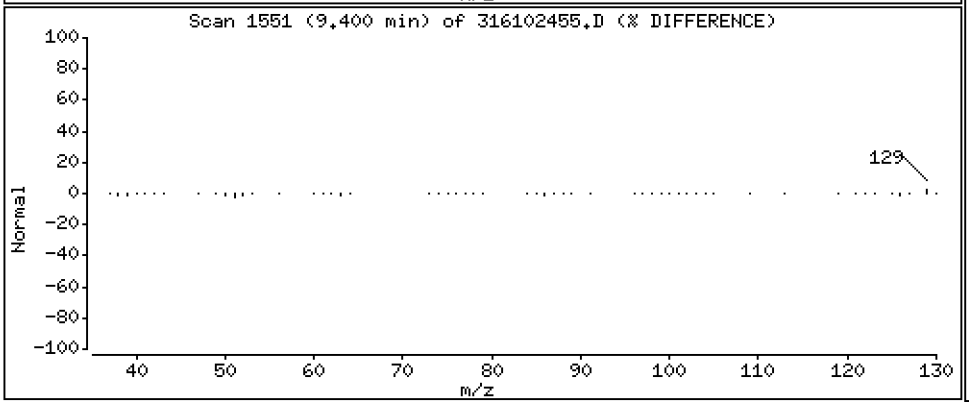
Column phase: DB-VRX Column diameter: 0.25

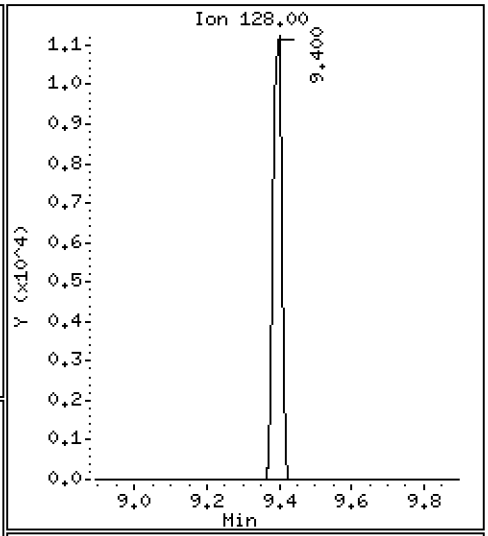
118 Naphthalene Concentration: 2.54318 ug/L

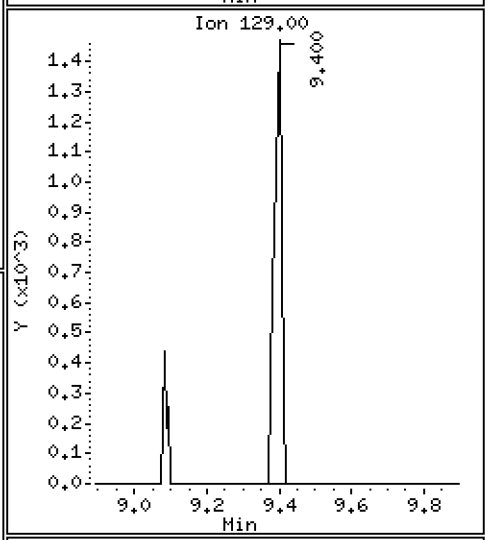


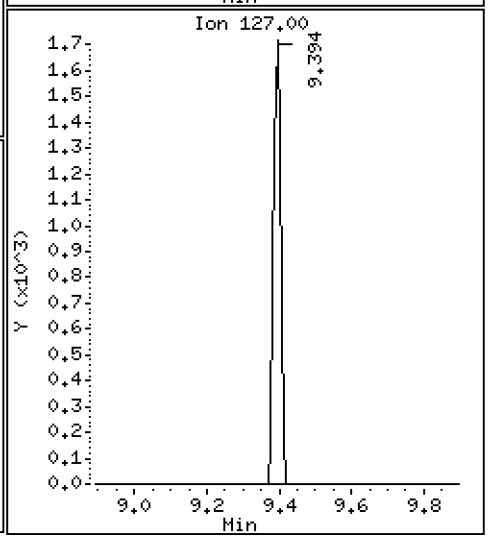












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102455.D Page 119

Date : 25-OCT-2016 00:08

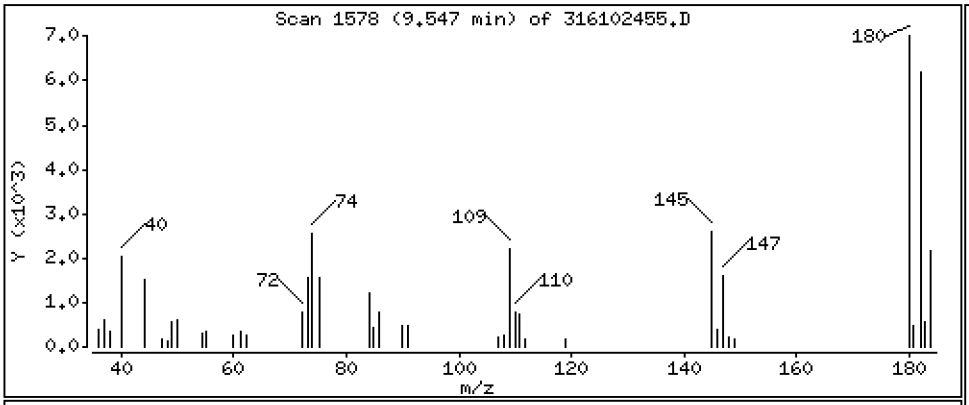
Client ID: Instrument: ms03.i

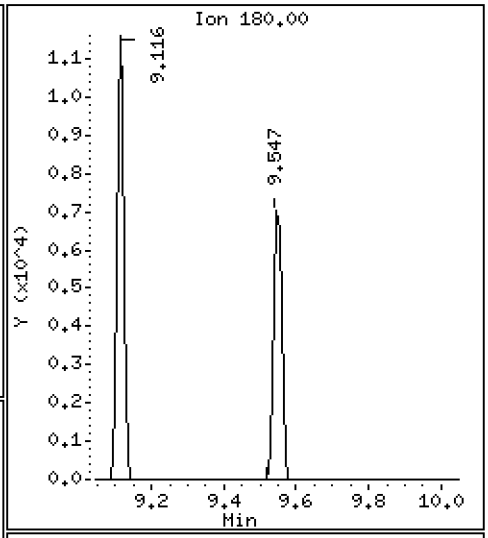
Sample Info: 1235;;1;1;2;;;

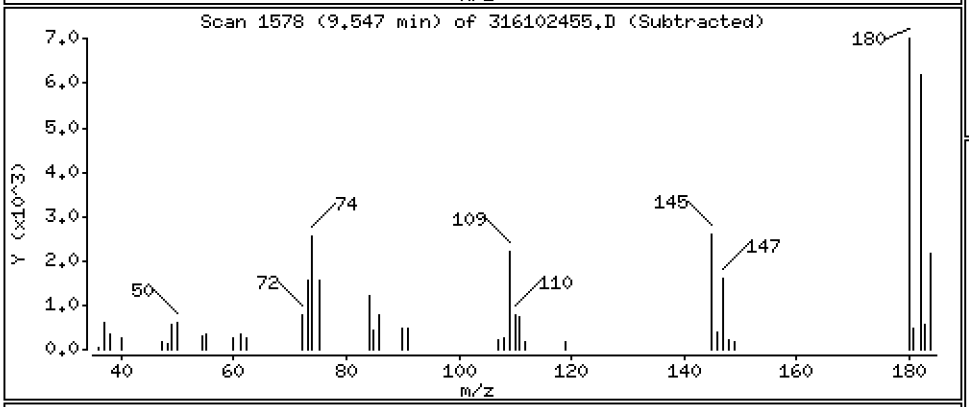
Purge Volume: 5.0 Operator: CJG

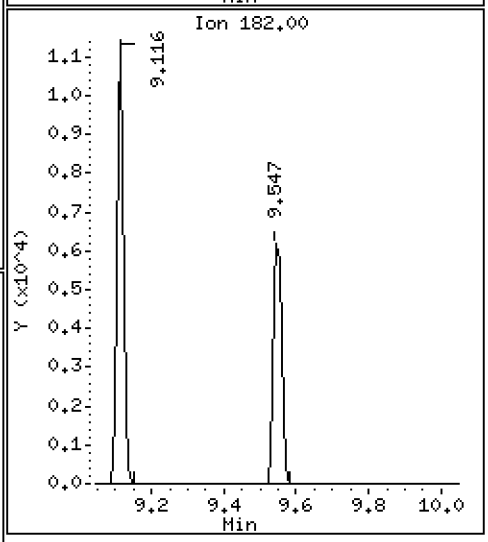
Column phase: DB-VRX Column diameter: 0.25

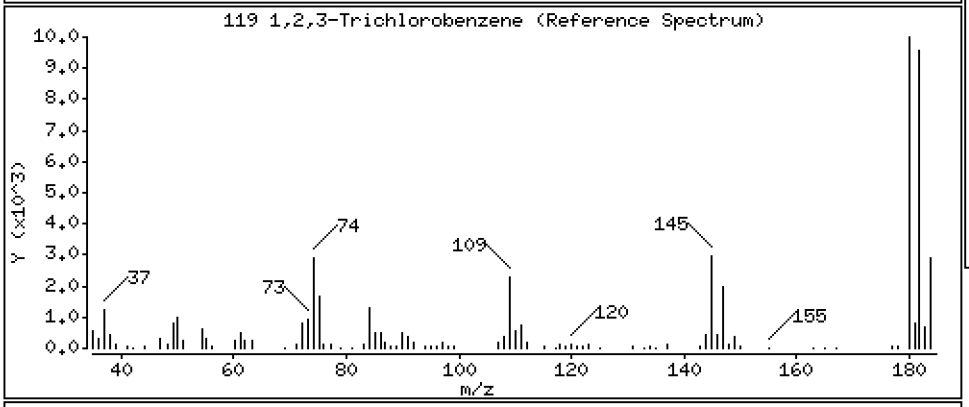
119 1,2,3-Trichlorobenzene Concentration: 4.10567 ug/L

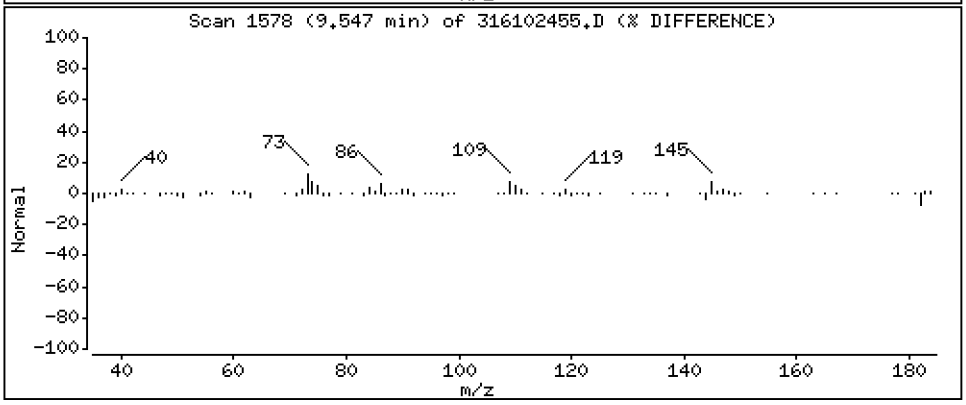








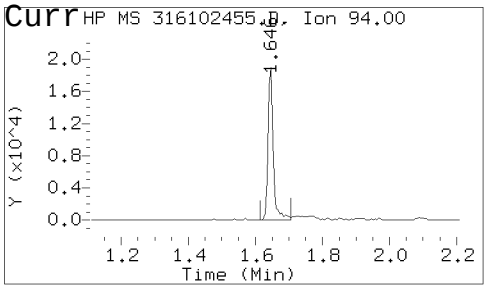


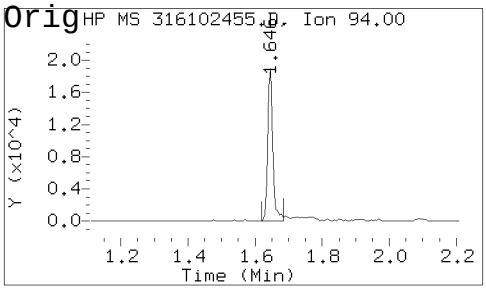


MANUAL INTEGRATION REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1235 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102455.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102455.D
Injection Date: 25-OCT-2016 00:08 Operator: CJG

Bromomethane

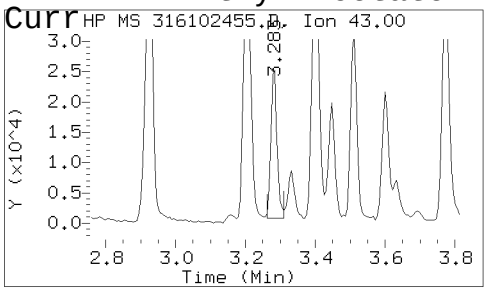


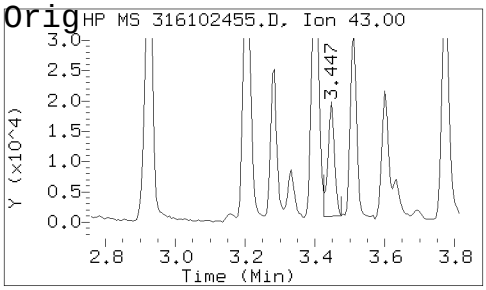


Curr. Area: 20074
Orig. Area: 19441

Curr. ON-COL: 5.27260
Orig. ON-COL: 4.00760

Ethyl Acetate

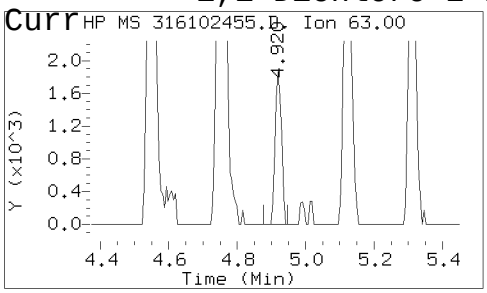


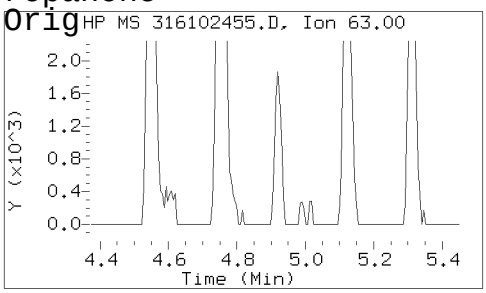


Curr. Area: 31989
Orig. Area: 24590

Curr. ON-COL: 4.63601
Orig. ON-COL: 3.78920

1,1-Dichloro-2-Propanone

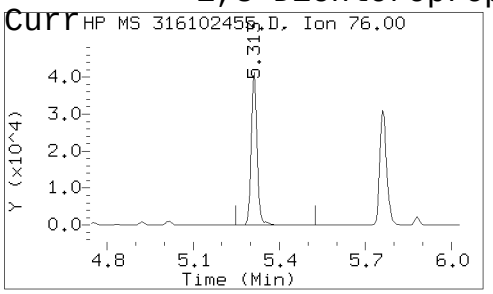


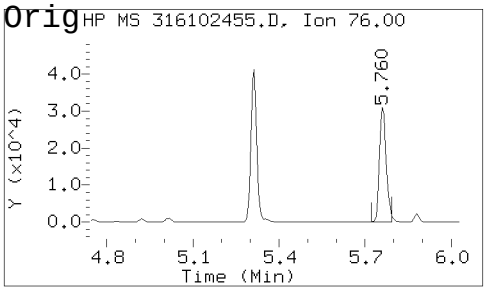


Curr. Area: 2477
Orig. Area: 0

Curr. ON-COL: 19.7526
Orig. ON-COL: 0.000000

1,3-Dichloropropane

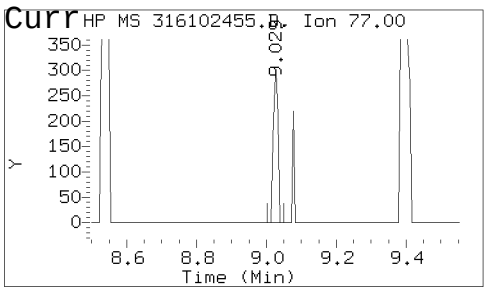


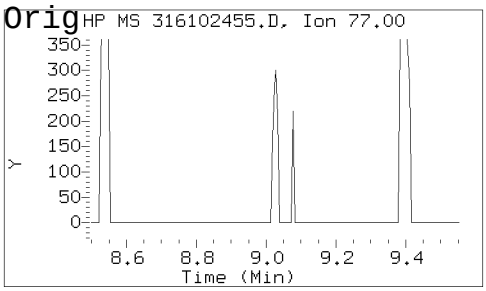


Curr. Area: 59764
Orig. Area: 50441

Curr. ON-COL: 5.28577
Orig. ON-COL: 4.53558

Nitrobenzene





Curr. Area: 308
Orig. Area: 0

Curr. ON-COL: 102.889
Orig. ON-COL: 0.000000

UNASSIGNED PEAK REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1235 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102455.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102455.D
Injection Date: 25-OCT-2016 00:08 Operator: CJG

Data File: 316102456.D Page 1
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610245
Lab Smp Id: 1236
Inj Date : 25-OCT-2016 00:30
Operator : CJG Inst ID: ms03.i
Smp Info : 1236;;1;1;3;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b0
Meth Date : 25-Oct-2016 10:10 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 00:30 Cal File: 316102456.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: ALMDTW7062

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.259	(0.332)	256203	20.0000	21.3503	
2 Chloromethane	50	1.389	1.390	(0.367)	229405	20.0000	21.0472	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	262777	20.0000	21.1524	
4 Bromomethane	94	1.645	1.646	(0.434)	85332	20.0000	20.7079(M)	
5 Chloroethane	64	1.722	1.723	(0.454)	156148	20.0000	20.9403	
6 Pentane	41	1.793	1.794	(0.473)	149216	20.0000	23.1506	
7 Trichlorofluoromethane	101	1.804	1.799	(0.476)	282650	20.0000	22.1313	
8 Dichlorofluoromethane	67	1.831	1.826	(0.483)	341018	20.0000	20.8170	
9 Ethyl Ether	74	1.967	1.968	(0.519)	110070	20.0000	20.3484	
10 1,1-Dichloroethene	61	2.087	2.088	(0.551)	237544	20.0000	20.8694	
11 Freon 113	101	2.104	2.105	(0.555)	137200	20.0000	22.7523	
12 Carbon Disulfide	76	2.120	2.121	(0.559)	394485	20.0000	19.2877	
13 Iodomethane	127	2.180	2.181	(0.575)	19592	20.0000	16.4160(Q)	
14 Acrolein	56	2.273	2.274	(0.600)	219069	200.000	191.614	
15 Isopropyl Alcohol	45	2.333	2.334	(0.616)	26915	100.000	102.011(M)	IH
16 3-Chloro-1-propene	41	2.344	2.345	(0.619)	212411	20.0000	19.3527	
17 Methylene Chloride	84	2.404	2.405	(0.634)	168953	20.0000	20.2759	
18 Acetone	58	2.426	2.427	(0.640)	58582	100.000	98.5274	
19 Methyl acetate	74	2.480	2.481	(0.655)	24024	20.0000	19.6444(Q)	
20 trans-1,2-Dichloroethene	61	2.486	2.487	(0.656)	232119	20.0000	20.6897	
21 Hexane	57	2.519	2.519	(0.665)	344622	20.0000	21.5320	

Data File: 316102456.D Page 2
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.535	2.530	(0.669)	395093	20.0000	19.2907	
	23 tert.- Butyl Alcohol	59	2.568	2.563	(0.678)	38194	100.000	87.0973	
	24 Acetonitrile	41	2.682	2.683	(0.708)	72658	100.000	98.5591	
	25 Diisopropyl ether	45	2.720	2.721	(0.718)	534370	20.0000	19.0405	
	26 Chloroprene	53	2.797	2.798	(0.738)	237701	20.0000	20.7934	
	27 1,1-Dichloroethane	63	2.813	2.814	(0.742)	307491	20.0000	20.8653	
	28 Acrylonitrile	53	2.846	2.841	(0.751)	270722	100.000	97.1648	
	29 Ethyl tert-butyl ether	59	2.911	2.912	(0.768)	448156	20.0000	18.6453	
	30 n-Propanol	41	2.911	2.912	(0.768)	107988	200.000	201.474(aQ)	
	31 Vinyl Acetate	86	2.928	2.929	(0.773)	30464	20.0000	18.5966	
	32 cis-1,2-Dichloroethene	61	3.097	3.098	(0.817)	231200	20.0000	20.2884	
	33 2,2-Dichloropropane	77	3.162	3.158	(0.834)	191410	20.0000	20.2029	
	34 Bromochloromethane	128	3.211	3.207	(0.847)	64972	20.0000	19.1182	
	35 Cyclohexane	84	3.211	3.212	(0.847)	253960	20.0000	22.8562	
	36 Chloroform	83	3.233	3.234	(0.853)	304866	20.0000	21.1711	
	37 Ethyl Acetate	43	3.282	3.278	(0.866)	128967	20.0000	18.3061	
	38 Methyl acrylate	55	3.293	3.294	(0.869)	131648	20.0000	19.5381	
	39 Carbon Tetrachloride	117	3.326	3.321	(0.878)	160959	20.0000	20.8101	
	40 Tetrahydrofuran	42	3.332	3.327	(0.879)	206571	100.000	96.3786	
$	41 Dibromofluoromethane	113	3.337	3.338	(0.881)	121279	20.0000	20.2291	
	42 1,1,1-Trichloroethane	97	3.359	3.360	(0.886)	219413	20.0000	20.5855	
	43 2-Butanone	72	3.402	3.398	(0.898)	83193	100.000	92.2137	
	44 1,1-Dichloropropene	75	3.424	3.425	(0.904)	230580	20.0000	21.6280	
	45 1-Chlorobutane	41	3.446	3.447	(0.909)	189319	20.0000	21.9272	
	46 Heptane	71	3.512	3.512	(0.927)	113625	20.0000	22.6231	
	47 Benzene	78	3.561	3.567	(0.940)	702918	20.0000	20.8952	
	48 Propionitrile	54	3.577	3.578	(0.944)	102179	100.000	99.8274	
	49 Methacrylonitrile	67	3.588	3.583	(0.947)	62847	20.0000	20.2305	
	50 tert-Amyl methyl ether	73	3.599	3.600	(0.950)	361089	20.0000	19.2216	
$	51 1,2-Dichloroethane-d4	65	3.637	3.638	(0.960)	156092	20.0000	19.2375	
	52 1,2-Dichloroethane	62	3.675	3.676	(0.970)	201182	20.0000	19.9189	
	53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	31783	100.000	90.6931	
	54 Isobutyl alcohol	43	3.632	3.632	(0.958)	36016	200.000	218.271(QM)	MP
*	55 Fluorobenzene	96	3.790	3.791	(1.000)	983996	30.0000		
	56 Diisobutylene	57	3.795	3.796	(1.001)	469197	20.0000	23.2009	
	57 Trichloroethene	95	3.883	3.883	(1.024)	160760	20.0000	21.4701	
	58 Methyl cyclohexane	83	3.883	3.883	(0.674)	269021	20.0000	23.2785	
	59 tert-Amyl Ethylether	59	3.992	3.987	(1.053)	319806	20.0000	18.5741	
	60 Dibromomethane	93	4.139	4.139	(1.092)	82164	20.0000	19.4582	
	61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	171861	20.0000	19.7243	
	62 Bromodichloromethane	83	4.221	4.222	(1.114)	172170	20.0000	18.7536	
	63 Methyl methacrylate	41	4.292	4.293	(1.132)	113862	20.0000	17.4378	
	64 1,4-Dioxane	88	4.335	4.336	(1.144)	13279	500.000	418.353	
	65 2-Chloroethylvinyl ether	63	4.548	4.549	(1.200)	68190	20.0000	17.3366	
	66 cis-1,3-Dichloropropene	75	4.603	4.604	(0.799)	220262	20.0000	18.6362	
	67 Octane	85	4.608	4.609	(0.800)	71922	20.0000	21.9779	
$	68 Toluene-d8	98	4.723	4.724	(0.820)	521206	20.0000	20.4707	
	69 Toluene	92	4.756	4.756	(0.826)	390872	20.0000	21.1753	
	70 Chloroacetonitrile	48	4.827	4.833	(0.838)	15902	100.000	90.4287	
	71 2-Nitropropane	41	4.908	4.909	(0.852)	122115	100.000	88.7300	
	72 1,1-Dichloro-2-Propanone	63	4.919	4.920	(0.854)	12224	100.000	92.9587(QM)	IH
	73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.986	(0.865)	692941	100.000	96.8150	
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	106945	20.0000	22.7108	
	75 trans-1,3-Dichloropropene	75	5.012	5.013	(0.870)	193046	20.0000	18.6188	

Data File: 316102456.D Page 3
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.094	5.095	(0.884)	179040	20.0000	18.7051	
	77 1,1,2-Trichloroethane	83	5.127	5.122	(0.890)	110743	20.0000	20.5033	
	78 Chlorodibromomethane	129	5.247	5.247	(0.911)	100836	20.0000	18.5687	
	79 1,3-Dichloropropane	76	5.312	5.313	(0.922)	233036	20.0000	20.1134(M)	IH
	80 1,2-Dibromoethane	107	5.421	5.422	(0.941)	111502	20.0000	20.0089	
	81 2-Hexanone	43	5.541	5.542	(0.962)	433431	100.000	93.0673	
	82 1-Chlorohexane	91	5.738	5.739	(0.996)	196019	20.0000	20.6714	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	412590	30.0000		
	84 Chlorobenzene	112	5.770	5.777	(1.002)	381262	20.0000	20.9713	
	85 Ethylbenzene	106	5.781	5.782	(1.004)	212679	20.0000	21.2382	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.815	(1.009)	107820	20.0000	19.8611	
	87 mp-Xylene	106	5.880	5.880	(1.021)	509525	40.0000	41.9676	
	88 o-Xylene	106	6.196	6.197	(1.076)	226803	20.0000	19.7110	
	89 Styrene	104	6.234	6.235	(0.829)	376725	20.0000	20.1189	
	90 Bromoform	173	6.262	6.262	(0.833)	42057	20.0000	18.1111	
	91 Isopropylbenzene	105	6.425	6.426	(0.855)	602947	20.0000	21.1345	
$	92 4-Bromofluorobenzene	174	6.649	6.650	(0.885)	103913	20.0000	20.1727	
	93 Bromobenzene	156	6.731	6.732	(0.895)	120328	20.0000	20.7845	
	94 n-Propylbenzene	120	6.736	6.737	(0.896)	155840	20.0000	21.3643	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.792	(0.903)	140691	20.0000	20.3832	
	96 o-Chlorotoluene	91	6.867	6.868	(0.914)	470494	20.0000	20.9538	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.916)	462459	20.0000	21.0203	
	98 1,2,3-Trichloropropane	110	6.905	6.906	(0.919)	42045	20.0000	20.9866	
	99 trans-1,4-Dichloro-2-butene	53	6.927	6.933	(0.922)	35891	20.0000	19.1999(Q)	
M	100 1,2-Dichloroethene, Total	61				463319	40.0000	40.9781	
	101 p-Chlorotoluene	91	6.993	6.994	(0.930)	426800	20.0000	20.6400	
	102 tert-Butylbenzene	134	7.140	7.141	(0.950)	100413	20.0000	21.2947	
	103 Pentachloroethane	117	7.156	7.163	(0.952)	80199	20.0000	19.6821(Q)	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.957)	453990	20.0000	20.7071	
	105 sec-Butylbenzene	105	7.276	7.277	(0.968)	565609	20.0000	21.2680	
	106 p-Isopropyltoluene	134	7.391	7.392	(0.983)	108247	20.0000	20.6170	
	107 1,3-Dichlorobenzene	146	7.462	7.463	(0.993)	216121	20.0000	20.8608	
*	108 1,4-Dichlorobenzene-d4	152	7.517	7.523	(1.000)	249307	30.0000		
	109 1,4-Dichlorobenzene	146	7.533	7.534	(1.002)	217075	20.0000	20.8640	
	110 Benzyl Chloride	126	7.735	7.736	(1.029)	20954	20.0000	15.8113(Q)	
	111 n-Butylbenzene	134	7.735	7.736	(1.029)	90469	20.0000	20.2340(Q)	
	112 Hexachloroethane	117	7.849	7.850	(1.044)	56475	20.0000	18.3778	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.048)	190161	20.0000	20.4145	
	114 1,2-Dibromo-3-chloropropane	75	8.542	8.542	(1.136)	13909	20.0000	18.4400	
	115 Nitrobenzene	77	9.028	9.029	(1.201)	3117	200.000	256.981	
	116 Hexachlorobutadiene	225	9.088	9.089	(1.209)	36231	20.0000	20.8798	
	117 1,2,4-Trichlorobenzene	180	9.115	9.116	(1.213)	71562	20.0000	18.3242	
	118 Naphthalene	128	9.394	9.394	(1.250)	101494	20.0000	14.6181	
	119 1,2,3-Trichlorobenzene	180	9.546	9.547	(1.270)	45943	20.0000	18.4824	
M	120 1,3-Dichloropropene, Total	75				413308	40.0000	37.2550	
M	121 Total Xylenes	106				736328	60.0000	61.6785	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 316102456.D Page 4
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 25-OCT-2016
Lab File ID: 316102456.D Calibration Time: 00:52
Lab Smp Id: 1236
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: CJG
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	983996	-2.88
83 Chlorobenzene-d5	432864	216432	865728	412590	-4.68
108 1,4-Dichlorobenze	273837	136919	547674	249307	-8.96

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	-0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	-0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102456.D Page 5
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1236
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	21.3503	
74-87-3	Chloromethane	21.0472	
75-01-4	Vinyl Chloride	21.1524	
74-83-9	Bromomethane	20.7079	
75-00-3	Chloroethane	20.9403	
109-66-0	Pentane	23.1506	
75-69-4	Trichlorofluoromethane	22.1313	
75-43-4	Dichlorofluoromethane	20.8170	
60-29-7	Ethyl Ether	20.3484	
75-35-4	1,1-Dichloroethene	20.8694	
76-13-1	Freon 113	22.7523	
75-15-0	Carbon Disulfide	19.2877	
74-88-4	Iodomethane	16.4160	
107-02-8	Acrolein	191.614	
67-63-0	Isopropyl Alcohol	102.011	
107-05-1	3-Chloro-1-propene	19.3527	
75-09-2	Methylene Chloride	20.2759	
67-64-1	Acetone	98.5274	
79-20-9	Methyl acetate	19.6444	
156-60-5	trans-1,2-Dichloroethene	20.6897	
110-54-3	Hexane	21.5320	
1634-04-4	Methyl t-Butyl Ether	19.2907	
75-65-0	tert.- Butyl Alcohol	87.0973	
75-05-8	Acetonitrile	98.5591	
108-20-3	Diisopropyl ether	19.0405	
126-99-8	Chloroprene	20.7934	
75-34-3	1,1-Dichloroethane	20.8653	
107-13-1	Acrylonitrile	97.1648	
637-92-3	Ethyl tert-butyl ether	18.6453	
71-23-8	n-Propanol	201.474	J
108-05-4	Vinyl Acetate	18.5966	
156-59-2	cis-1,2-Dichloroethene	20.2884	
594-20-7	2,2-Dichloropropane	20.2029	
74-97-5	Bromochloromethane	19.1182	
110-82-7	Cyclohexane	22.8562	
67-66-3	Chloroform	21.1711	
141-78-6	Ethyl Acetate	18.3061	
96-33-3	Methyl acrylate	19.5381	
56-23-5	Carbon Tetrachloride	20.8101	
109-99-9	Tetrahydrofuran	96.3786	
71-55-6	1,1,1-Trichloroethane	20.5855	
78-93-3	2-Butanone	92.2137	

Data File: 316102456.D Page 6
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1236
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
563-58-6	1,1-Dichloropropene	21.6280	
109-69-3	1-Chlorobutane	21.9272	
142-82-5	Heptane	22.6231	
71-43-2	Benzene	20.8952	
107-12-0	Propionitrile	99.8274	
126-98-7	Methacrylonitrile	20.2305	
994-05-8	tert-Amyl methyl ether	19.2216	
107-06-2	1,2-Dichloroethane	19.9189	
75-85-4	tert-Amyl Alcohol	90.6931	
78-83-1	Isobutyl alcohol	218.271	
107-39-1	Diisobutylene	23.2009	
79-01-6	Trichloroethene	21.4701	
108-87-2	Methyl cyclohexane	23.2785	
919-94-8	tert-Amyl Ethylether	18.5741	
74-95-3	Dibromomethane	19.4582	
78-87-5	1,2-Dichloropropane	19.7243	
75-27-4	Bromodichloromethane	18.7536	
80-62-6	Methyl methacrylate	17.4378	
123-91-1	1,4-Dioxane	418.353	
110-75-8	2-Chloroethylvinyl ether	17.3366	
10061-01-5	cis-1,3-Dichloropropene	18.6362	
111-65-9	Octane	21.9779	
108-88-3	Toluene	21.1753	
107-14-2	Chloroacetonitrile	90.4287	
79-46-9	2-Nitropropane	88.7300	
513-88-2	1,1-Dichloro-2-Propanone	92.9587	
108-10-1	4-Methyl-2-Pentanone(MIBK)	96.8150	
127-18-4	Tetrachloroethene	22.7108	
10061-02-6	trans-1,3-Dichloropropene	18.6188	
97-63-2	Ethyl Methacrylate	18.7051	
79-00-5	1,1,2-Trichloroethane	20.5033	
124-48-1	Chlorodibromomethane	18.5687	
142-28-9	1,3-Dichloropropane	20.1134	
106-93-4	1,2-Dibromoethane	20.0089	
591-78-6	2-Hexanone	93.0673	
544-10-5	1-Chlorohexane	20.6714	
108-90-7	Chlorobenzene	20.9713	
100-41-4	Ethylbenzene	21.2382	
630-20-6	1,1,1,2-Tetrachloroethane	19.8611	
108383/106423	m-p-Xylene	41.9676	
95-47-6	o-Xylene	19.7110	
100-42-5	Styrene	20.1189	

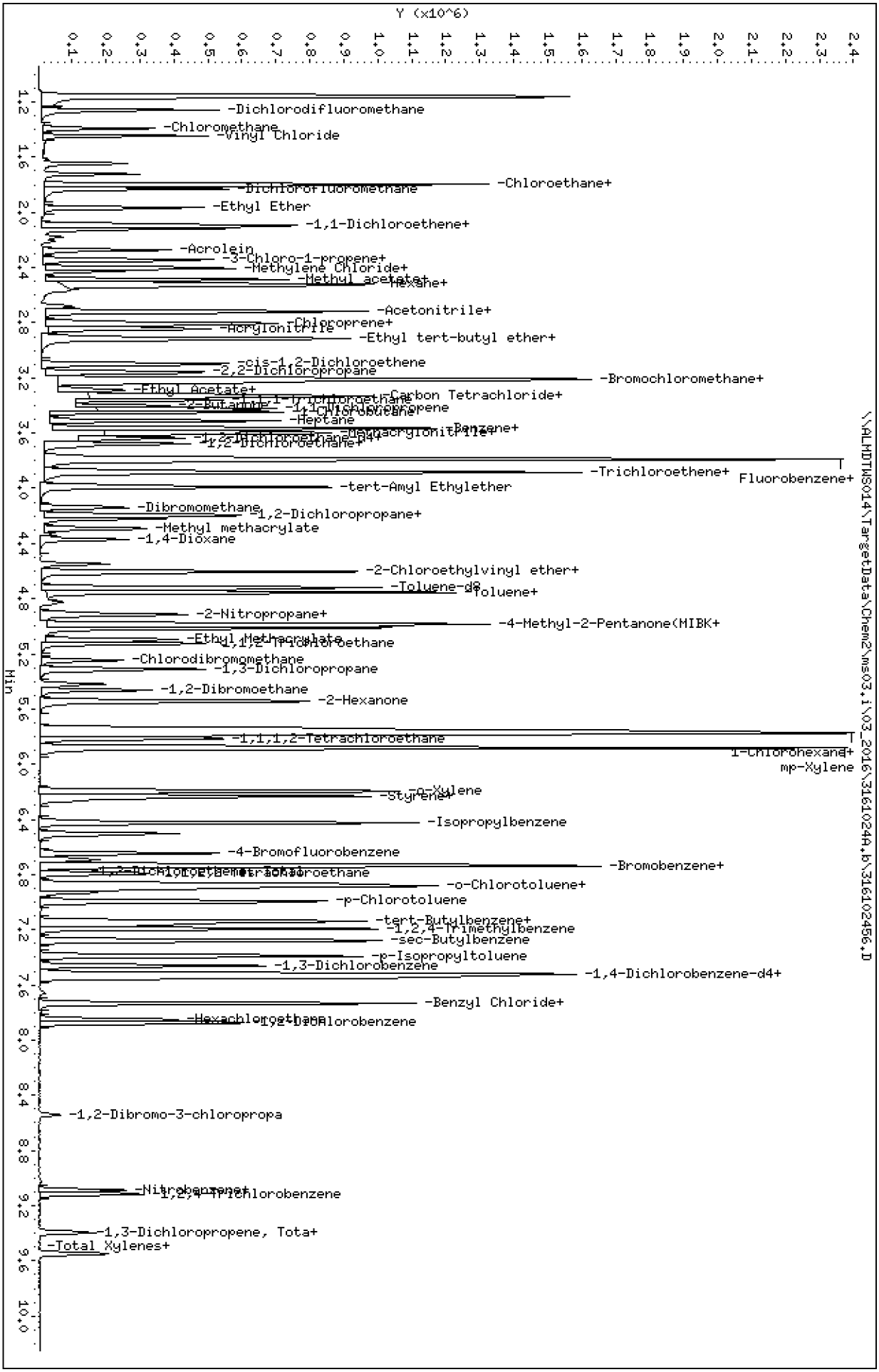
Data File: 316102456.D Page 7
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1236
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-25-2	Bromoform	18.1111	
98-82-8	Isopropylbenzene	21.1345	
108-86-1	Bromobenzene	20.7845	
103-65-1	n-Propylbenzene	21.3643	
79-34-5	1,1,2,2-Tetrachloroethane	20.3832	
95-49-8	o-Chlorotoluene	20.9538	
108-67-8	1,3,5-Trimethylbenzene	21.0203	
96-18-4	1,2,3-Trichloropropane	20.9866	
110-57-6	trans-1,4-Dichloro-2-butene	19.1999	
540-59-0	1,2-Dichloroethene, Total	40.9781	
106-43-4	p-Chlorotoluene	20.6400	
98-06-6	tert-Butylbenzene	21.2947	
76-01-7	Pentachloroethane	19.6821	
95-63-6	1,2,4-Trimethylbenzene	20.7071	
135-98-8	sec-Butylbenzene	21.2680	
99-87-6	p-Isopropyltoluene	20.6170	
541-73-1	1,3-Dichlorobenzene	20.8608	
106-46-7	1,4-Dichlorobenzene	20.8640	
100-44-7	Benzyl Chloride	15.8113	
104-51-8	n-Butylbenzene	20.2340	
67-72-1	Hexachloroethane	18.3778	
95-50-1	1,2-Dichlorobenzene	20.4145	
96-12-8	1,2-Dibromo-3-chloropropane	18.4400	
98-95-3	Nitrobenzene	256.981	
87-68-3	Hexachlorobutadiene	20.8798	
120-82-1	1,2,4-Trichlorobenzene	18.3242	
91-20-3	Naphthalene	14.6181	
87-61-6	1,2,3-Trichlorobenzene	18.4824	
542-75-6	1,3-Dichloropropene, Total	37.2550	
1330-20-7	Total Xylenes	61.6785	
1868-53-7	Dibromofluoromethane	20.2291	
17060-07-0	1,2-Dichloroethane-d4	19.2375	
2037-26-5	Toluene-d8	20.4707	
460-00-4	4-Bromofluorobenzene	20.1727	


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Chloroethane+
-Dichlorofluoromethane
-Ethyl Ether
-1,1-Dichloroethene+
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Acrylonitrile
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Carbon Tetrachloride+
-2-Butanone
-1,1-Dichloropropene
-Chlorobenzene
-Heptane
-Benzene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-Trichloroethene+
Fluorobenzene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1,1,1,2-Tetrachloroethane
1-Chlorohexane+
mp-Xylene
-o-Xylene
-Styrene+
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-1,2-Dichloroethane-d4
-1,1,1,2-Tetrachloroethane
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-Hexachloroethane
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-Nitrobenzene+
-1,2,4-Trichlorobenzene
-1,3-Dichloropropene, Tota+
-Total Xylenes+
Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D
Date : 25-OCT-2016 00:30
Client ID:
Sample Info: 1236;;1;1;3;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S6.D

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 9

Date : 25-OCT-2016 00:30

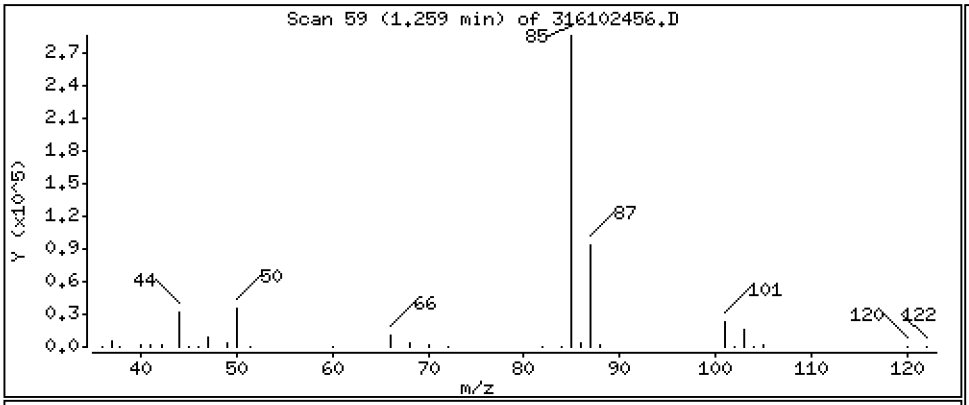
Client ID: Instrument: ms03.i

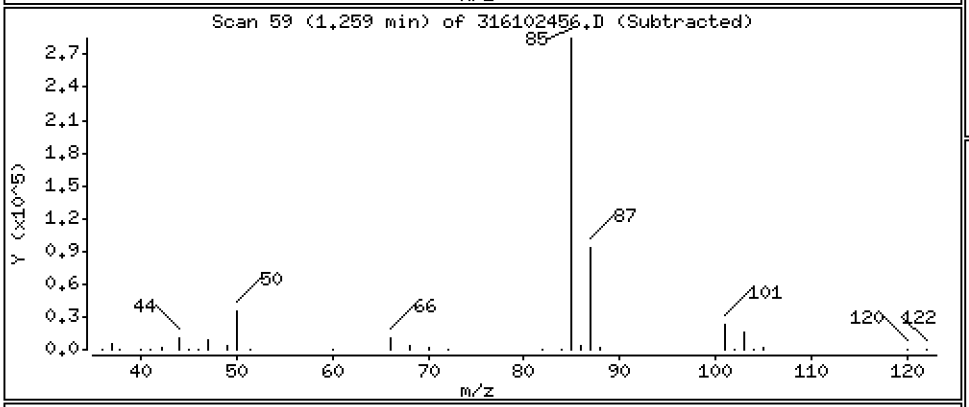
Sample Info: 1236;;1;1;3;;;

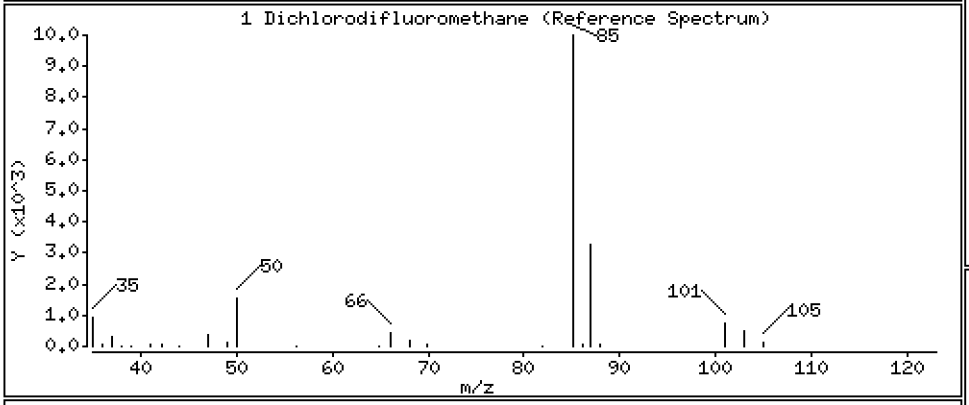
Purge Volume: 5.0 Operator: CJG

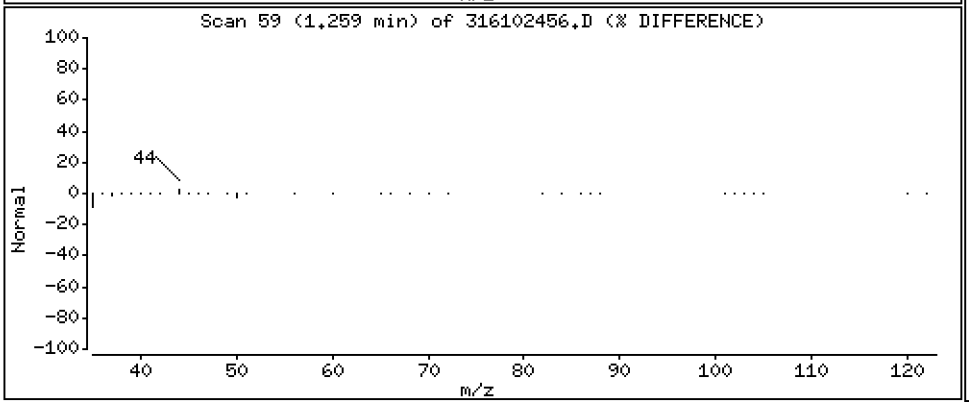
Column phase: DB-VRX Column diameter: 0.25

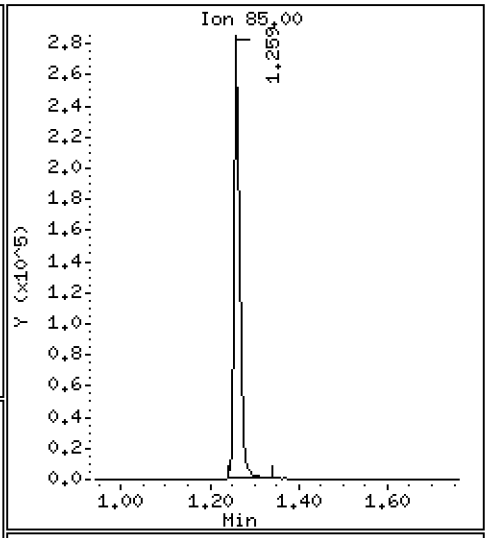
1 Dichlorodifluoromethane Concentration: 21.3503 ug/L

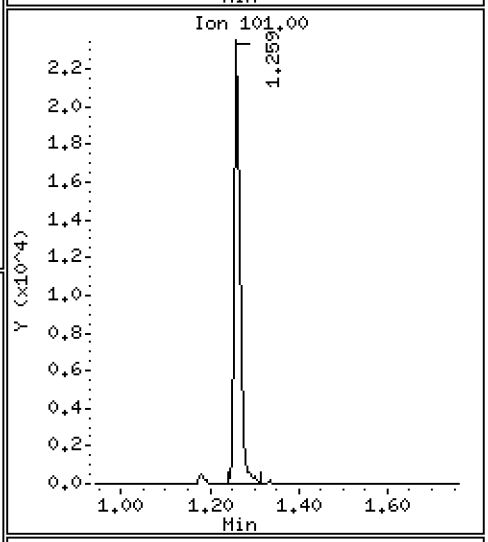


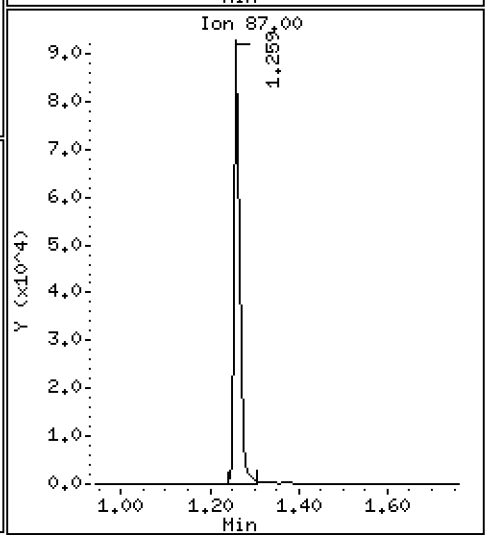












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 10

Date : 25-OCT-2016 00:30

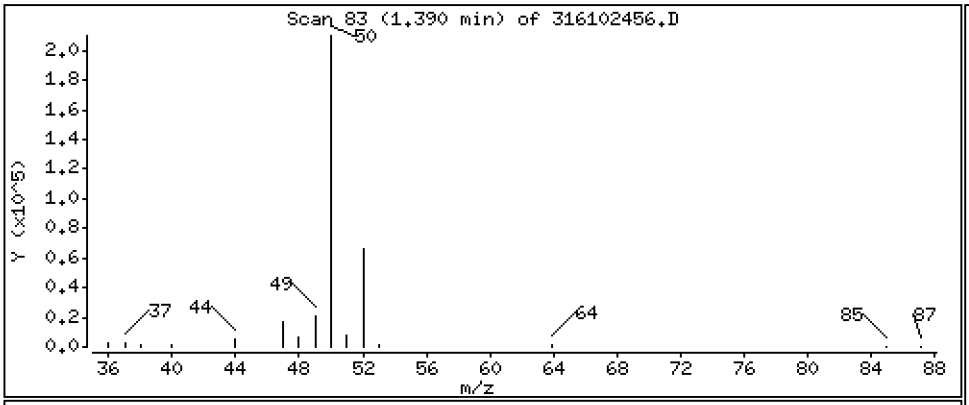
Client ID: Instrument: ms03.i

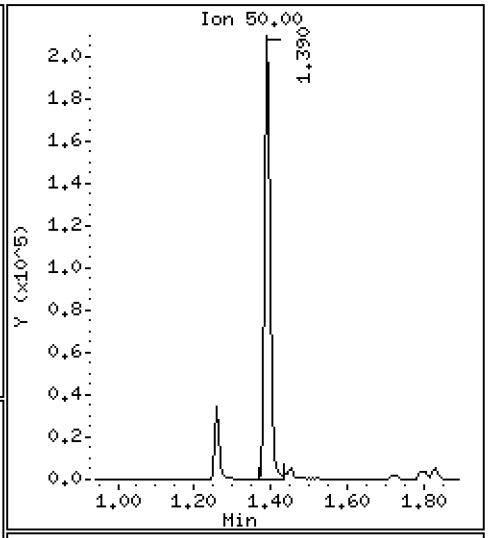
Sample Info: 1236;;1;1;3;;;

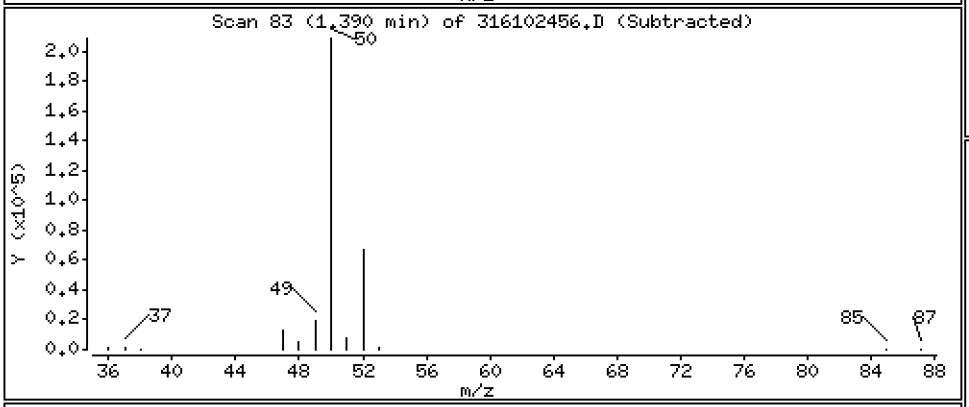
Purge Volume: 5.0 Operator: CJG

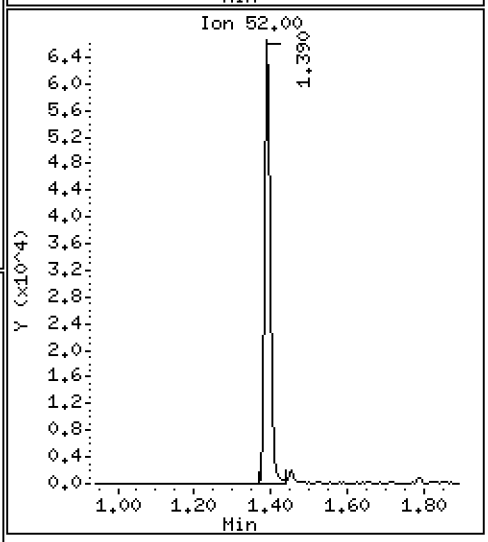
Column phase: DB-VRX Column diameter: 0.25

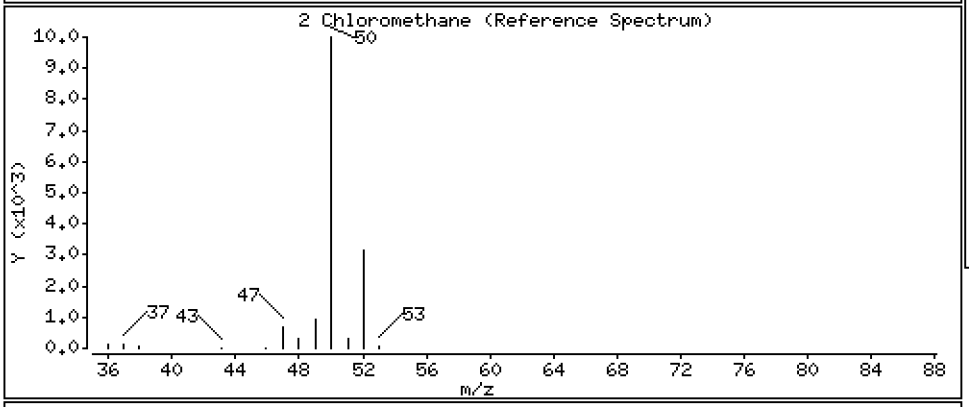
2 Chloromethane Concentration: 21.0472 ug/L

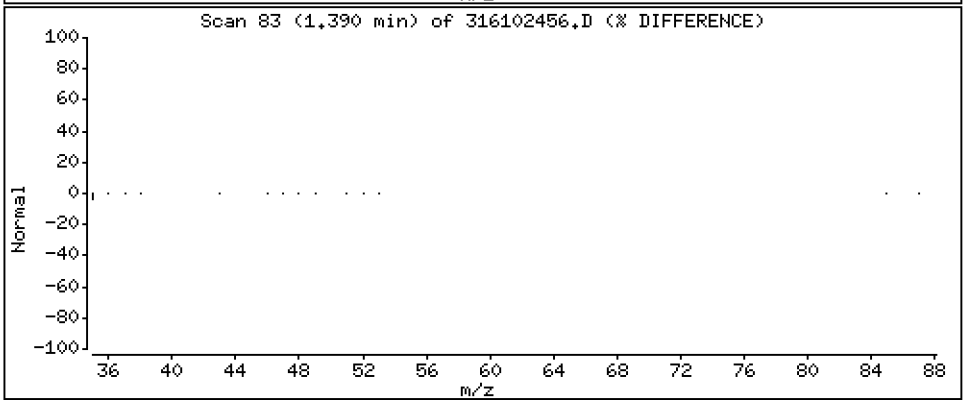












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 11

Date : 25-OCT-2016 00:30

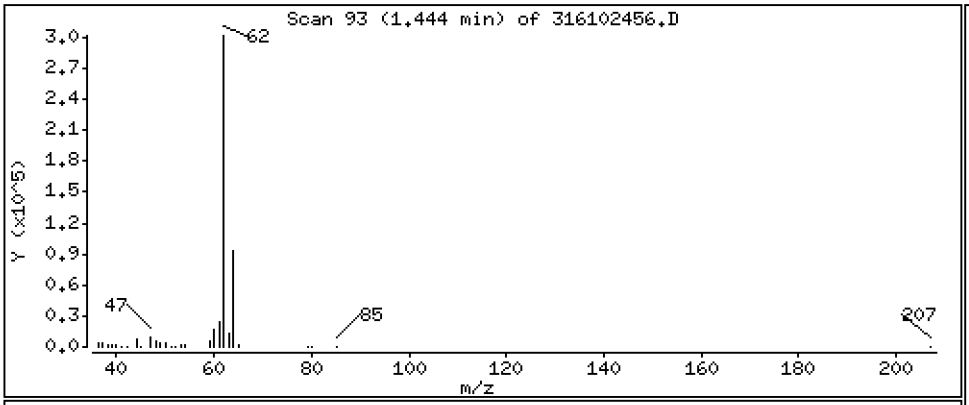
Client ID: Instrument: ms03.i

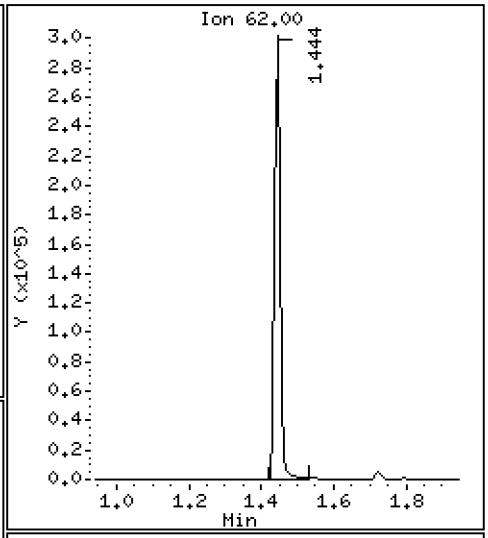
Sample Info: 1236;;1;1;3;;;

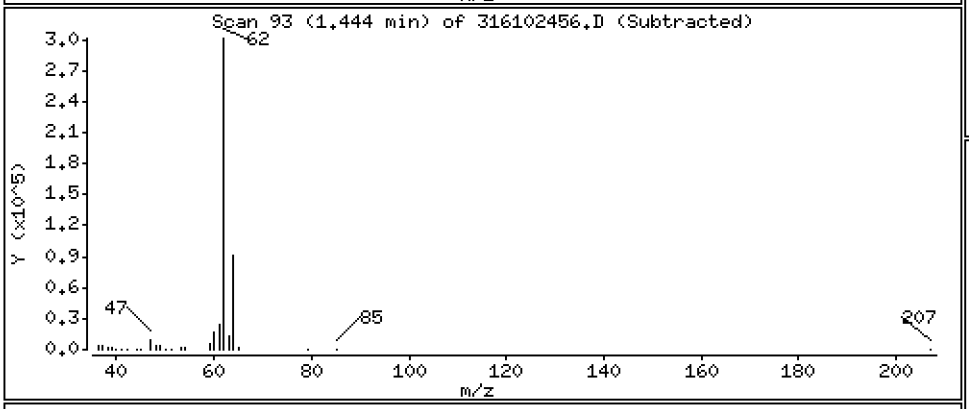
Purge Volume: 5.0 Operator: CJG

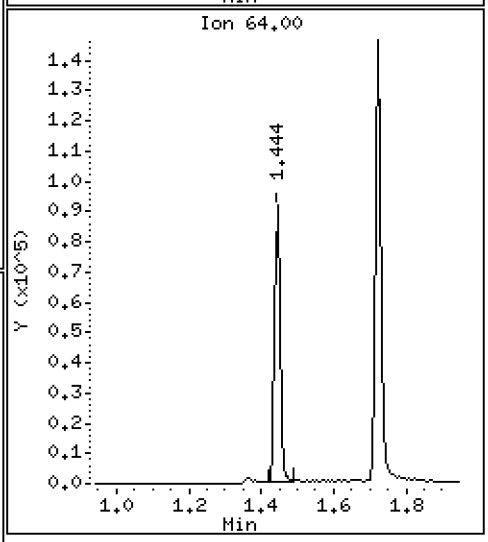
Column phase: DB-VRX Column diameter: 0.25

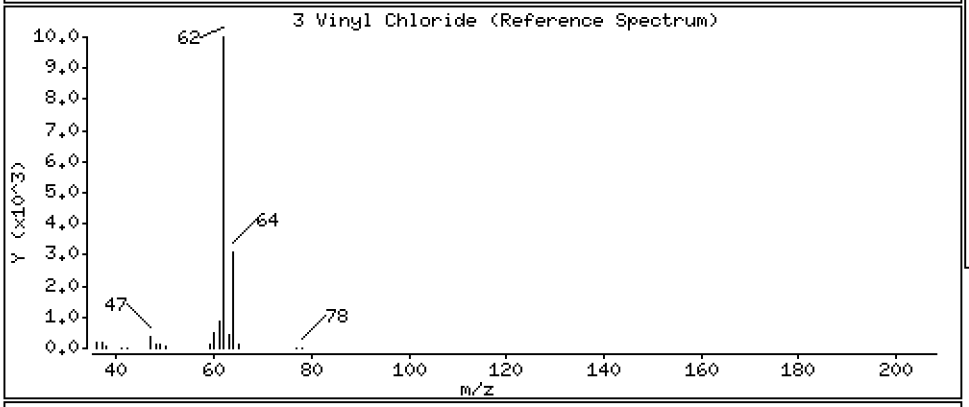
3 Vinyl Chloride Concentration: 21.1524 ug/L

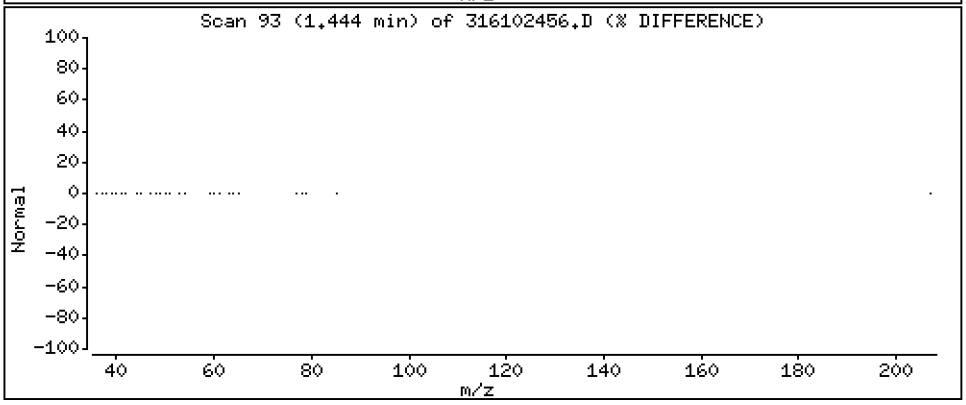












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 12

Date : 25-OCT-2016 00:30

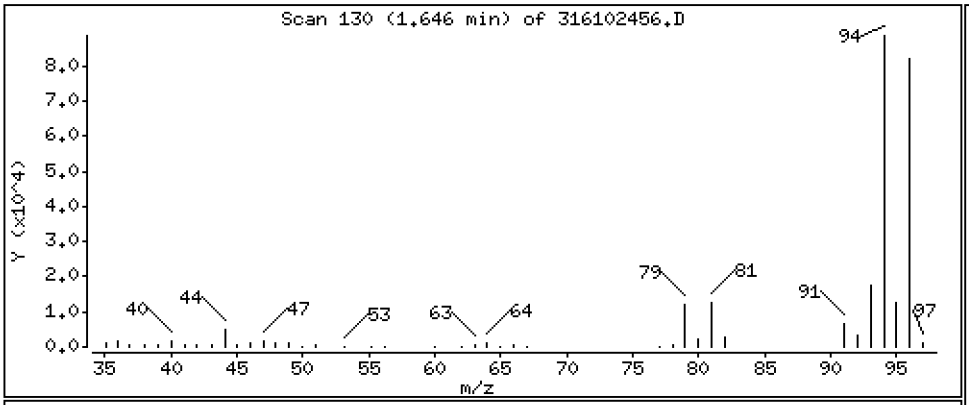
Client ID: Instrument: ms03.i

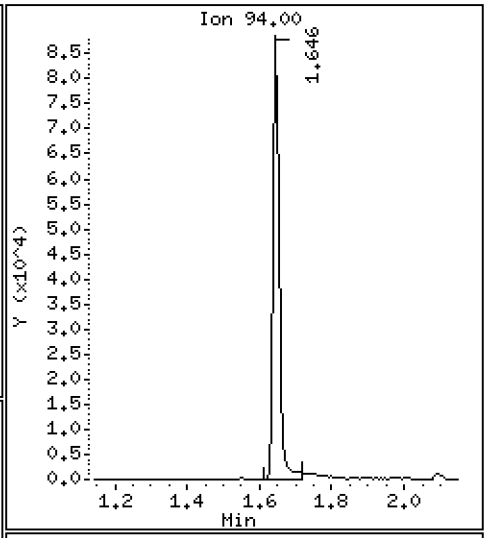
Sample Info: 1236;;1;1;3;;;

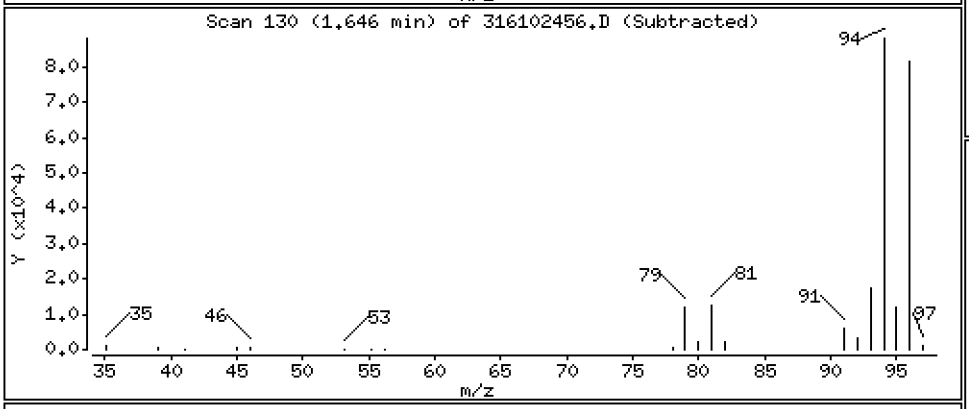
Purge Volume: 5.0 Operator: CJG

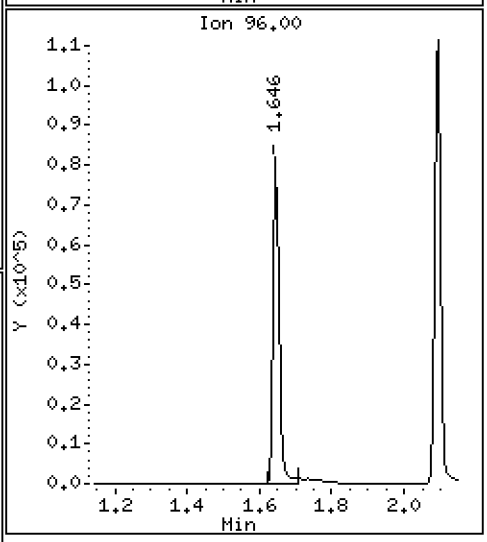
Column phase: DB-VRX Column diameter: 0.25

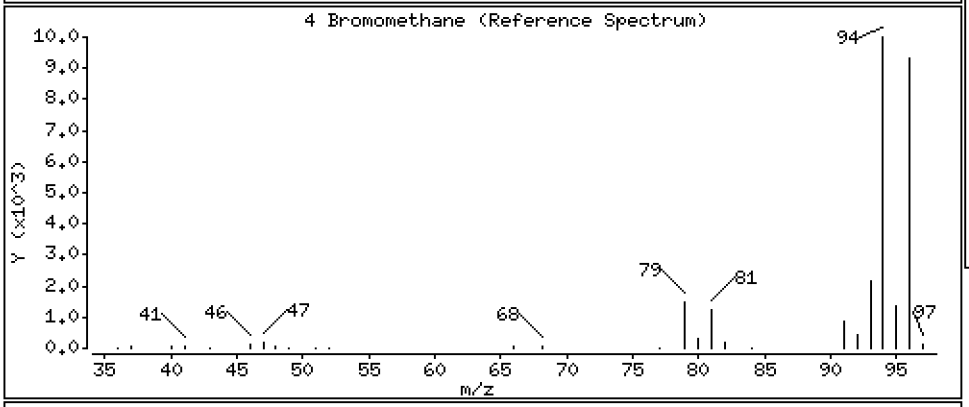
4 Bromomethane Concentration: 20.7079 ug/L

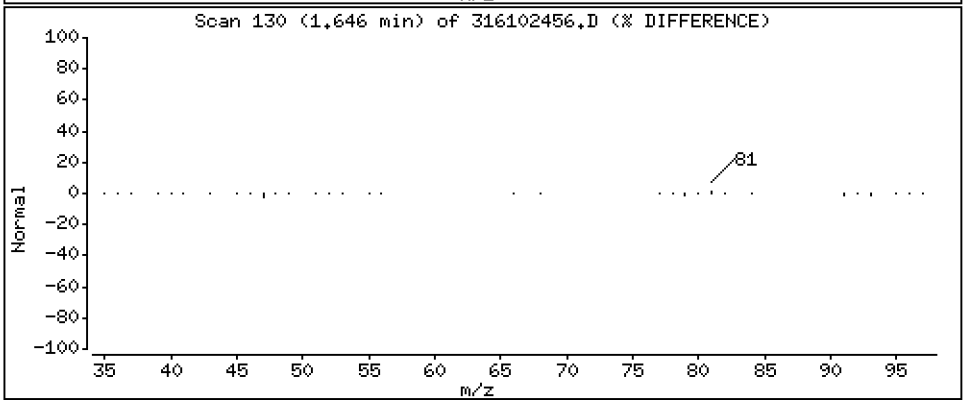












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 13

Date : 25-OCT-2016 00:30

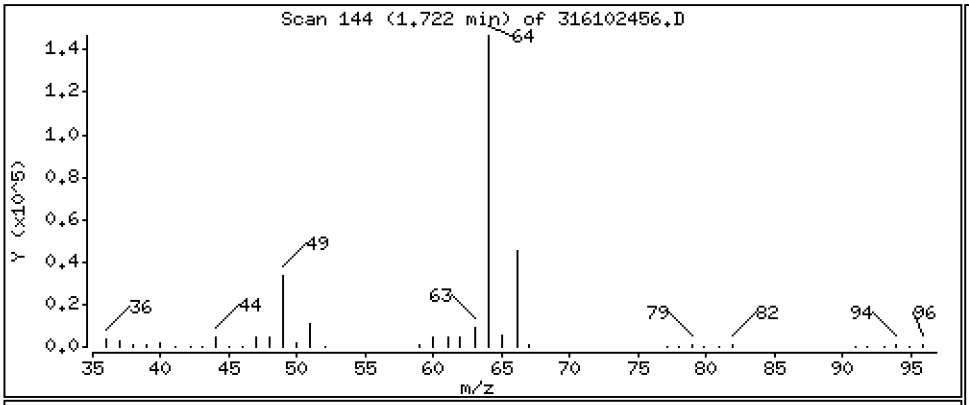
Client ID: Instrument: ms03.i

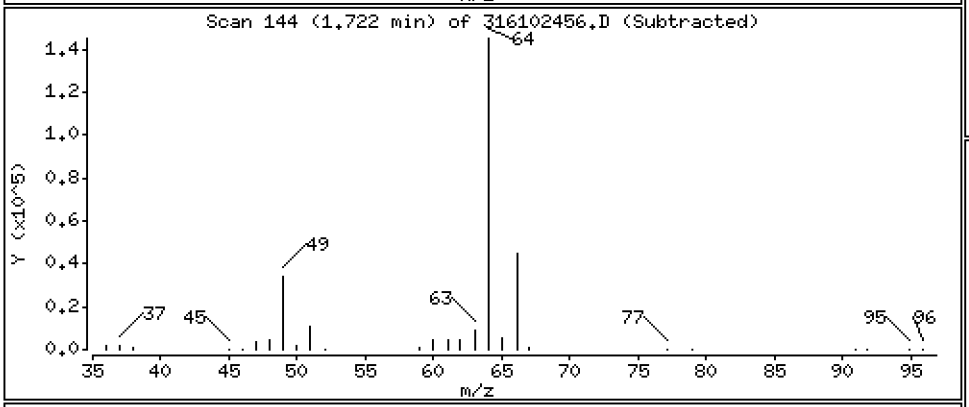
Sample Info: 1236;;1;1;3;;;

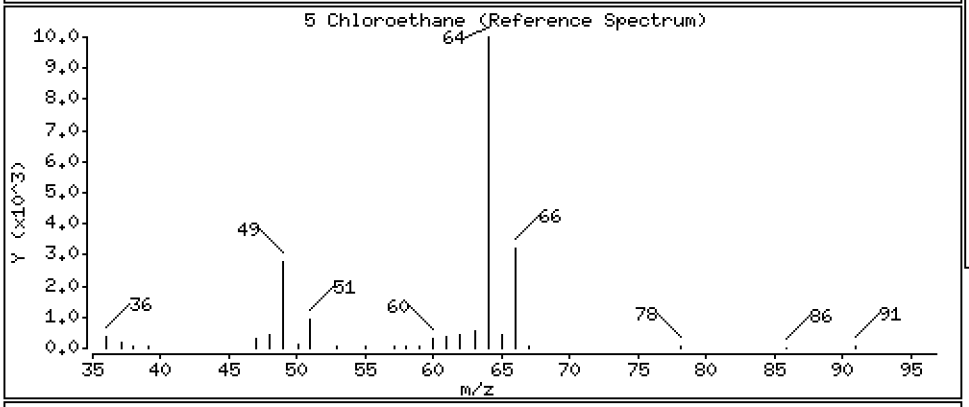
Purge Volume: 5.0 Operator: CJG

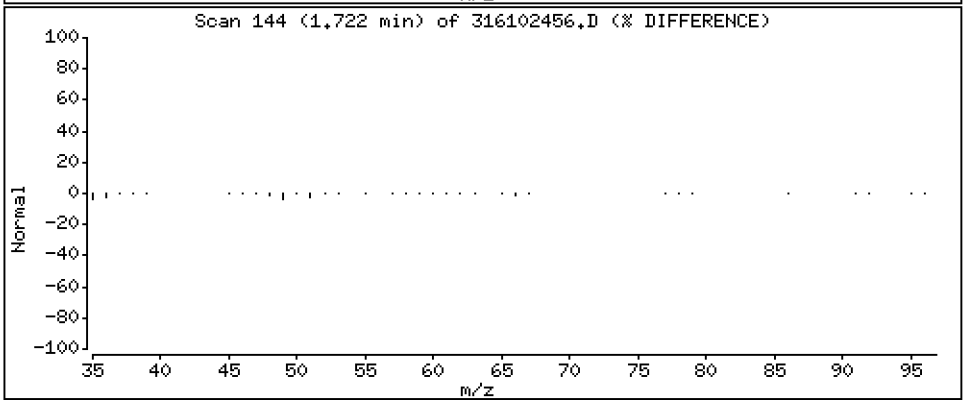
Column phase: DB-VRX Column diameter: 0.25

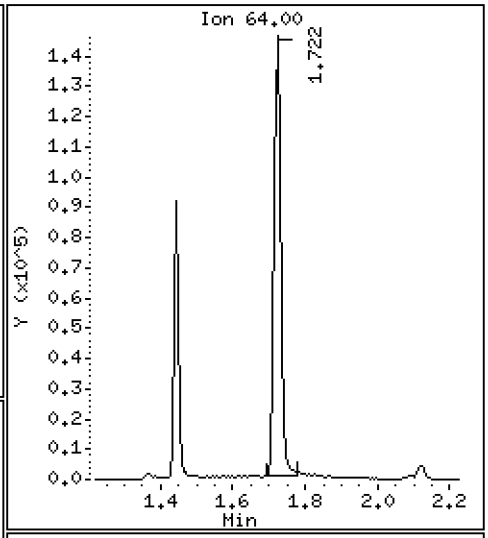
5 Chloroethane Concentration: 20.9403 ug/L

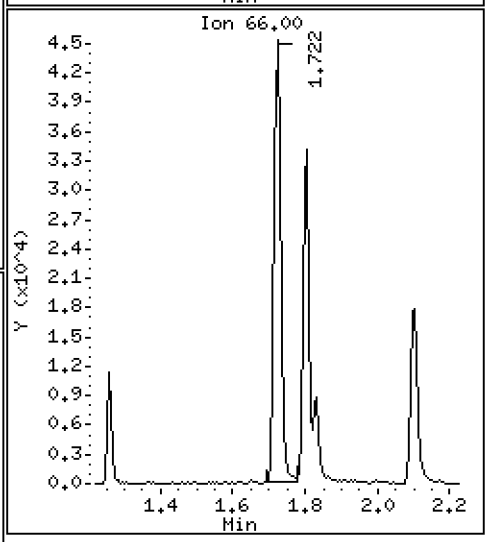












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 14

Date : 25-OCT-2016 00:30

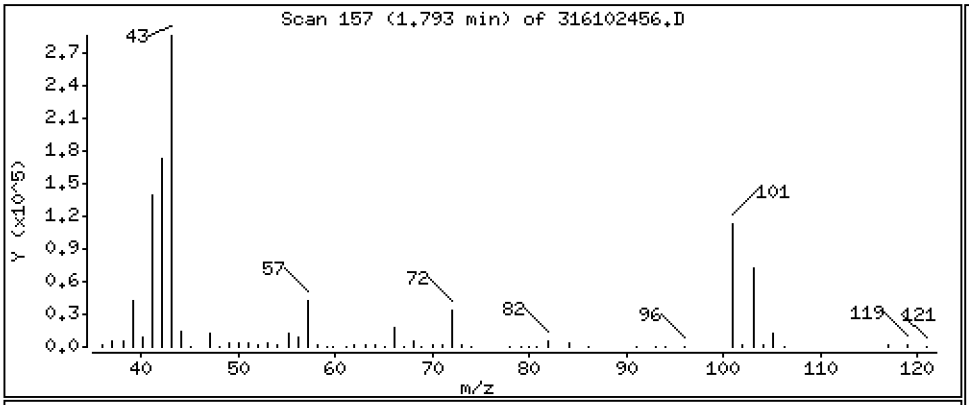
Client ID: Instrument: ms03.i

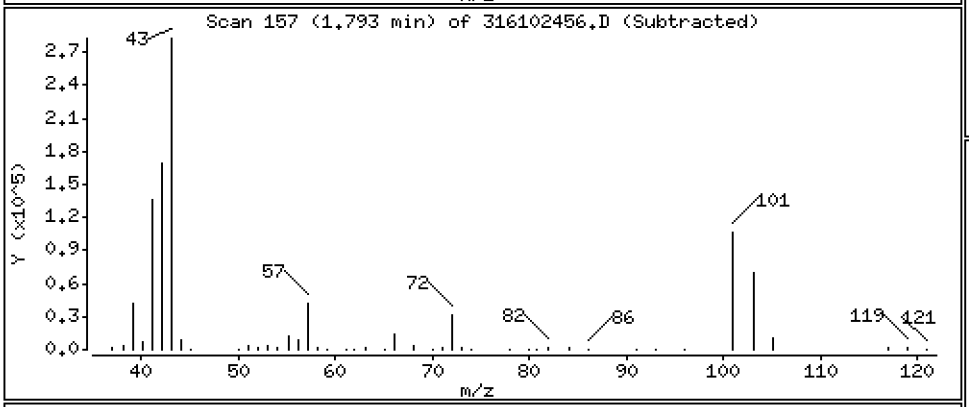
Sample Info: 1236;;1;1;3;;;

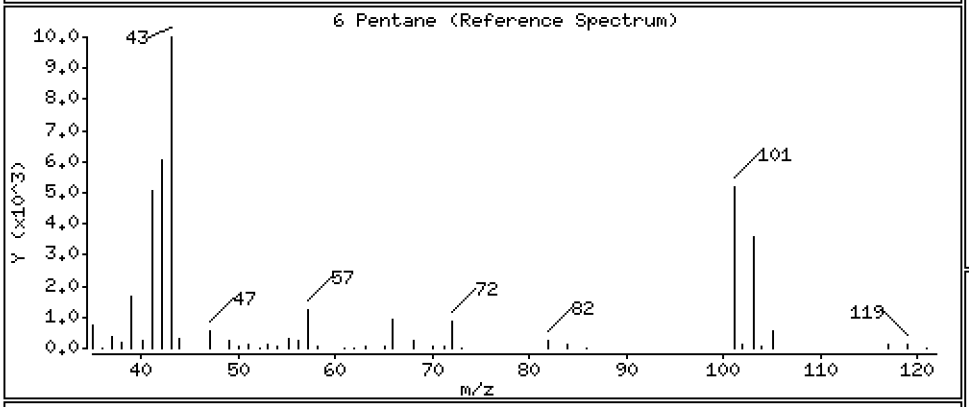
Purge Volume: 5.0 Operator: CJG

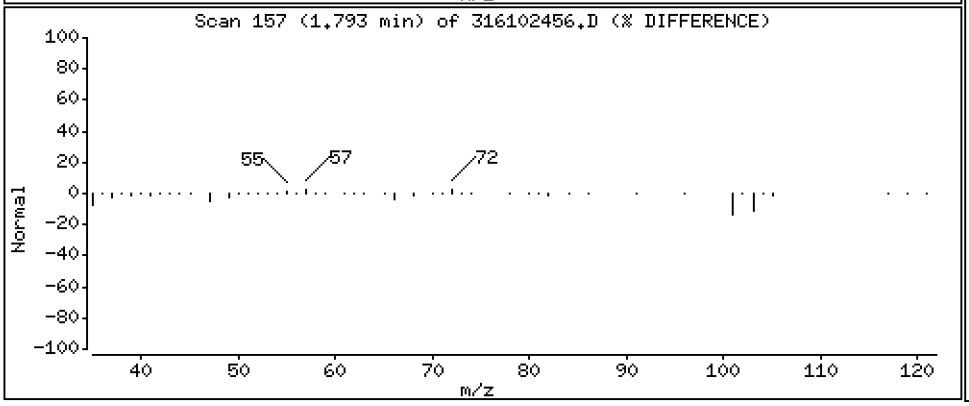
Column phase: DB-VRX Column diameter: 0.25

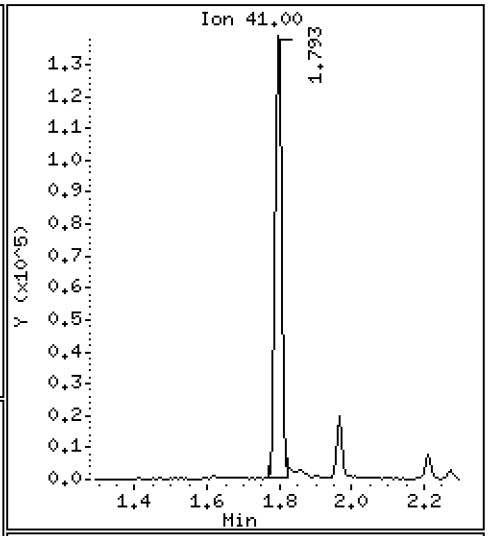
6 Pentane Concentration: 23.1506 ug/L

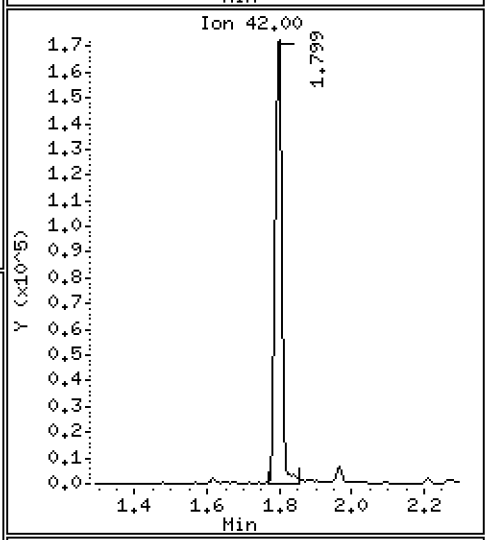


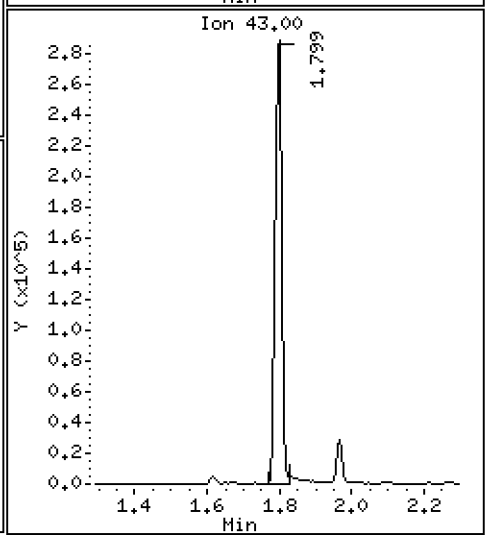












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 15

Date : 25-OCT-2016 00:30

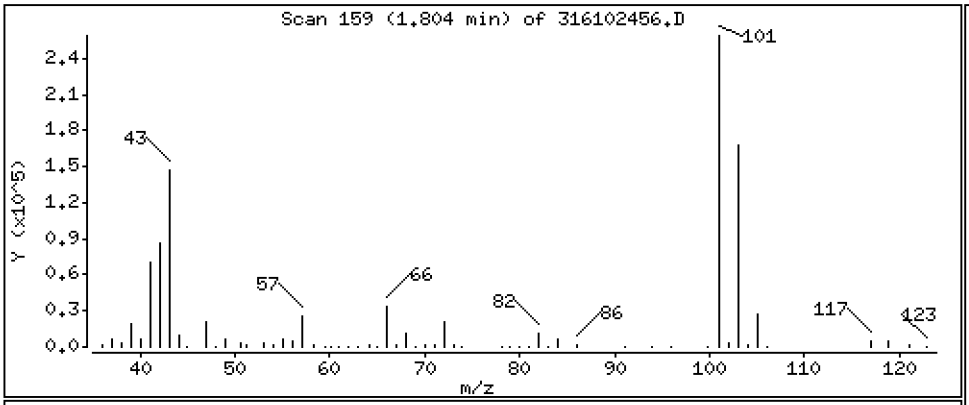
Client ID: Instrument: ms03.i

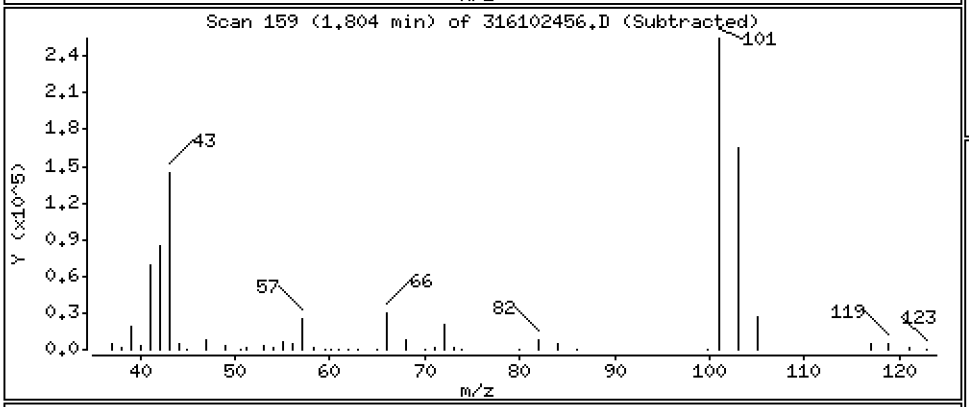
Sample Info: 1236;;1;1;3;;;

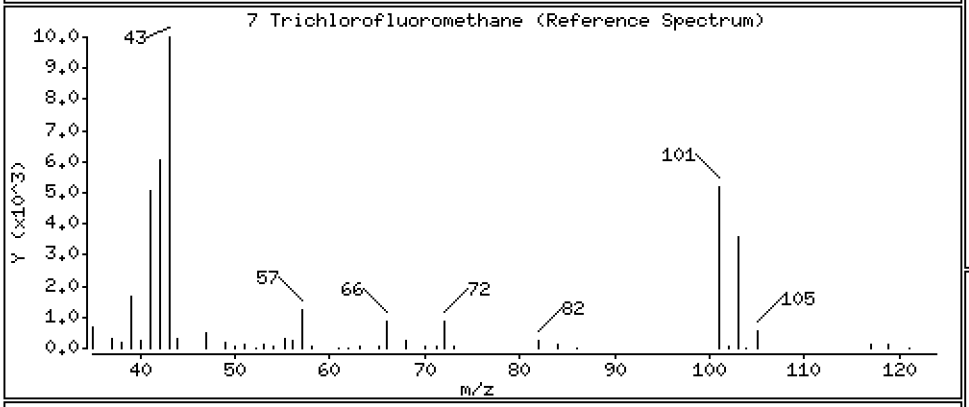
Purge Volume: 5.0 Operator: CJG

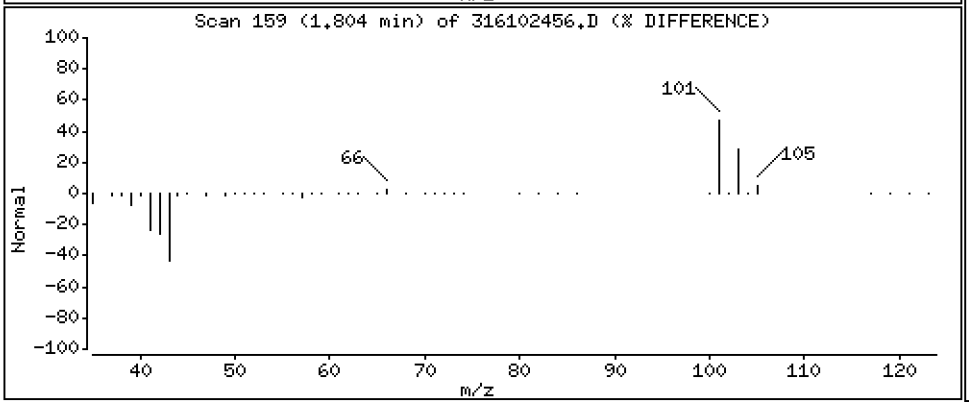
Column phase: DB-VRX Column diameter: 0.25

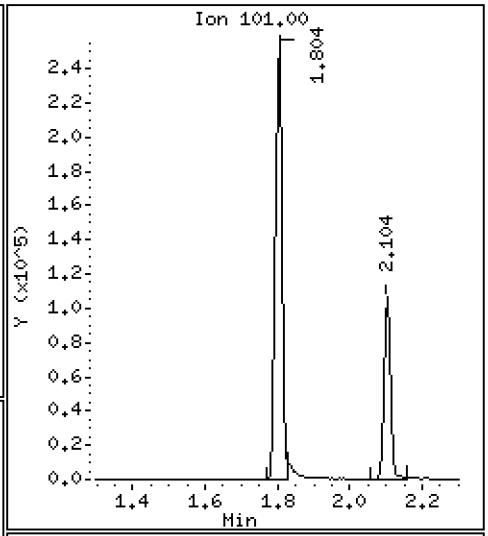
7 Trichlorofluoromethane Concentration: 22.1313 ug/L

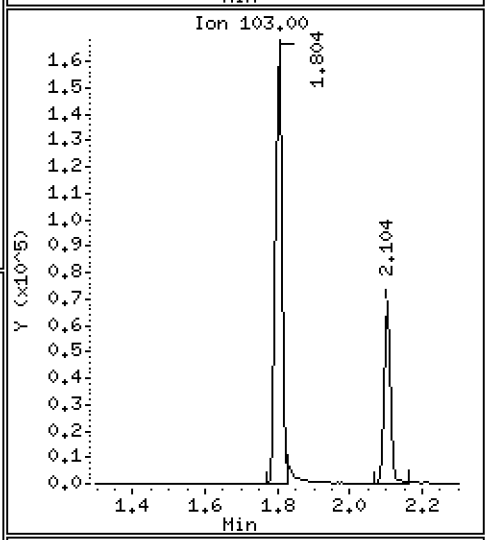


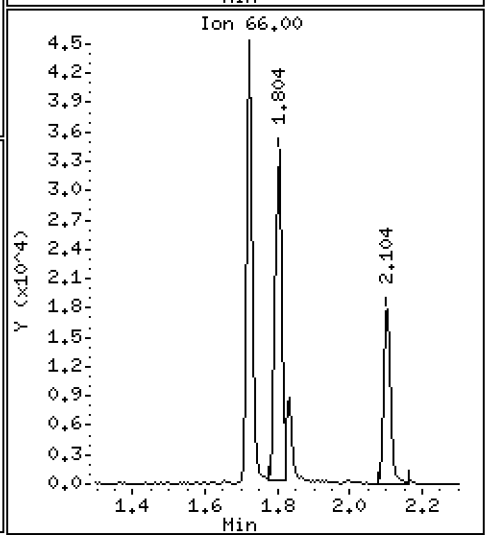












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 16

Date : 25-OCT-2016 00:30

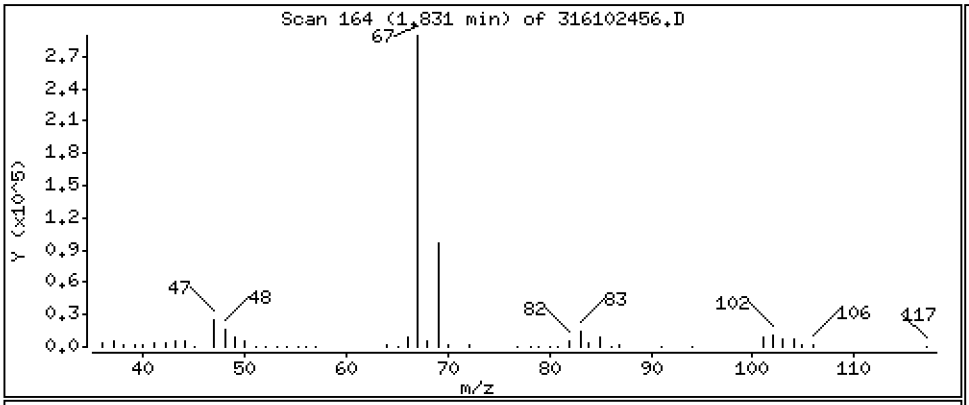
Client ID: Instrument: ms03.i

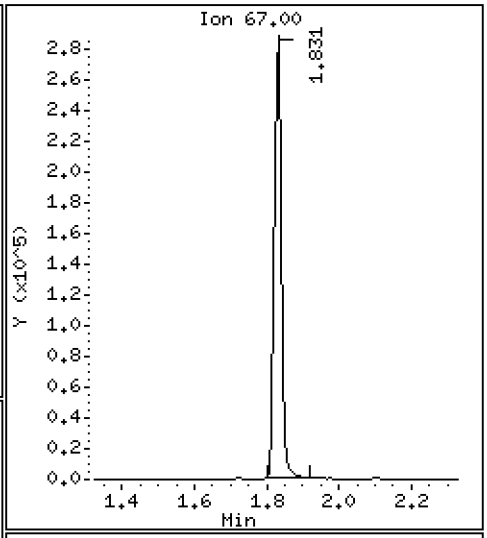
Sample Info: 1236;;1;1;3;;;

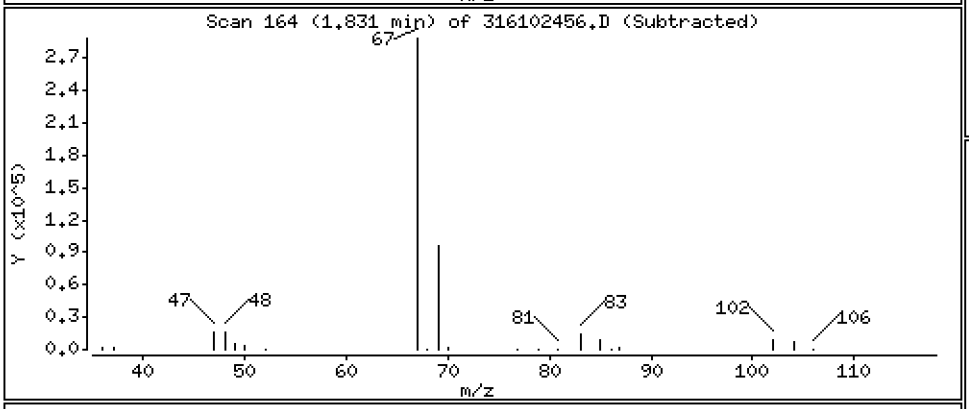
Purge Volume: 5.0 Operator: CJG

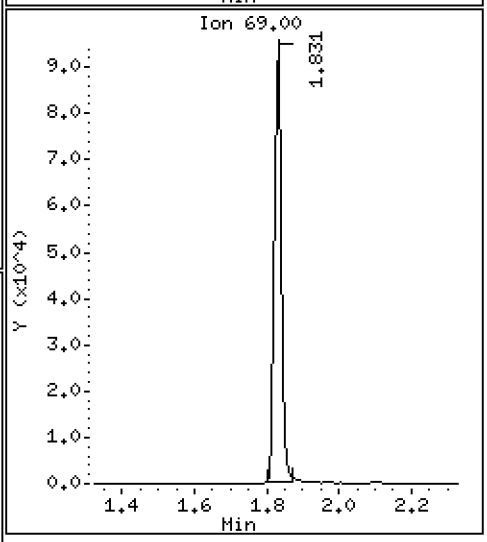
Column phase: DB-VRX Column diameter: 0.25

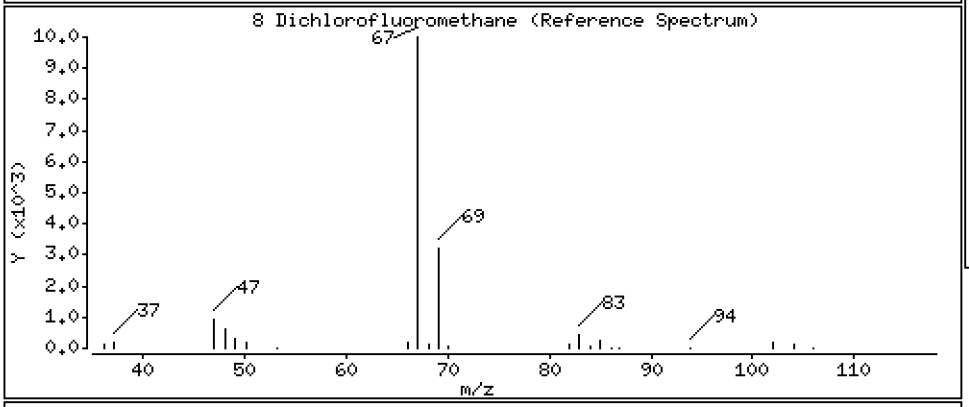
8 Dichlorofluoromethane Concentration: 20.8170 ug/L

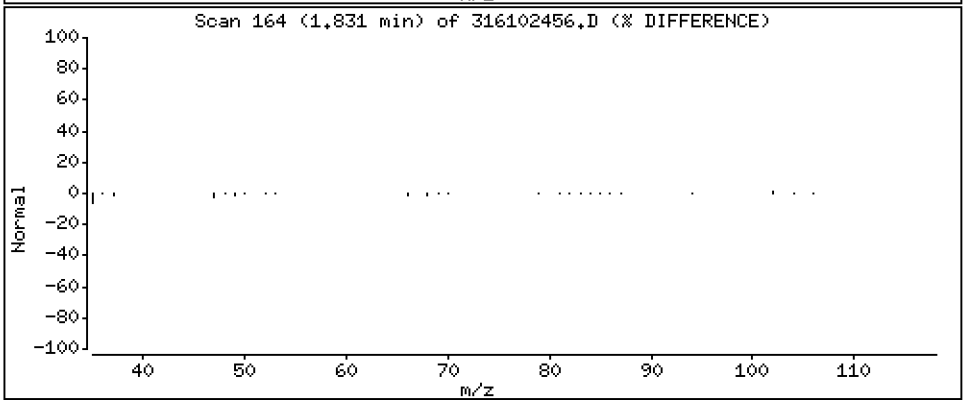












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 17

Date : 25-OCT-2016 00:30

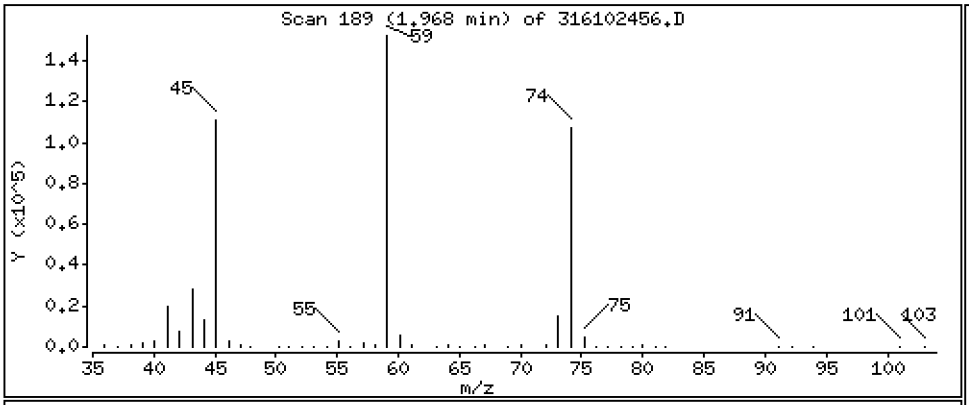
Client ID: Instrument: ms03.i

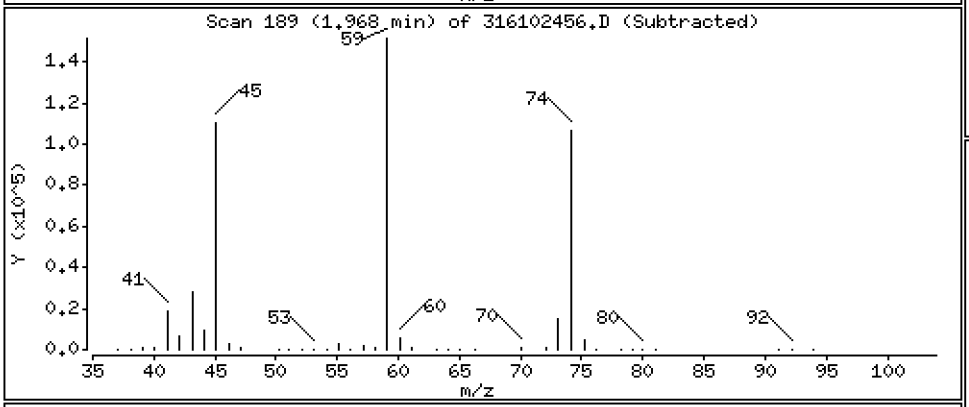
Sample Info: 1236;;1;1;3;;;

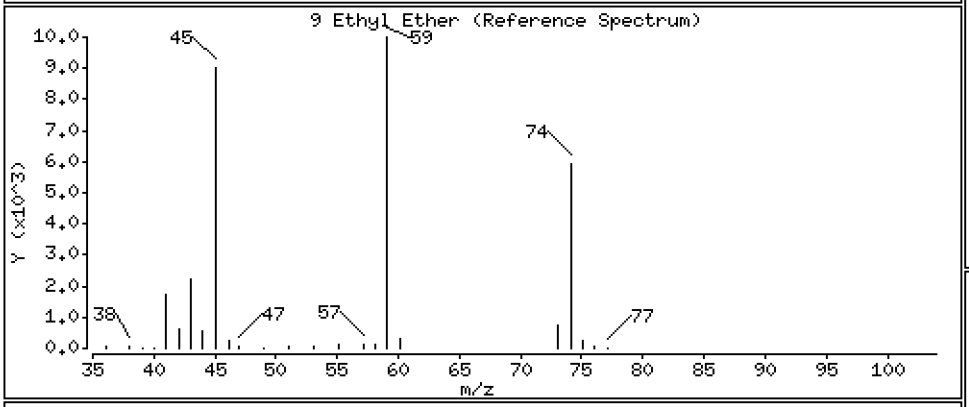
Purge Volume: 5.0 Operator: CJG

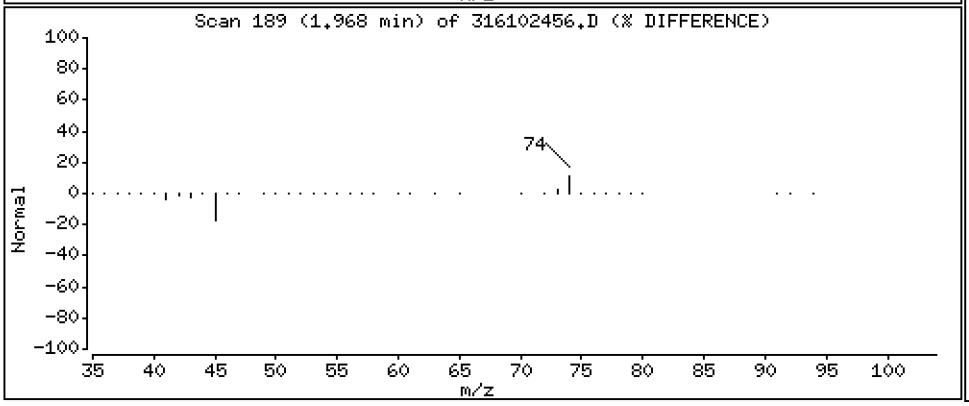
Column phase: DB-VRX Column diameter: 0.25

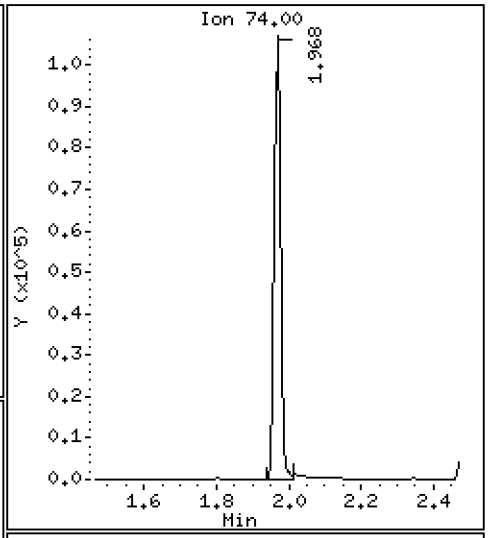
9 Ethyl Ether Concentration: 20.3484 ug/L

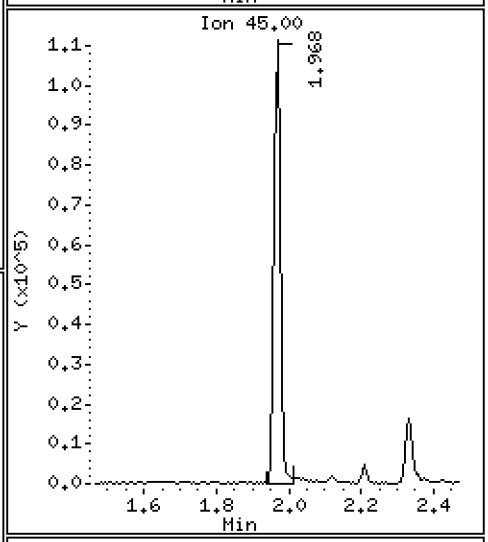


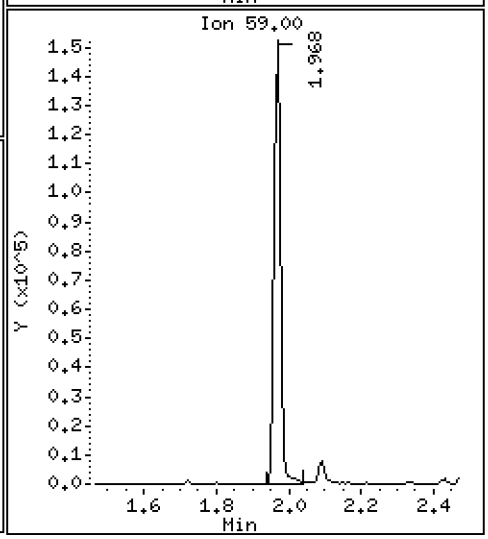












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 18

Date : 25-OCT-2016 00:30

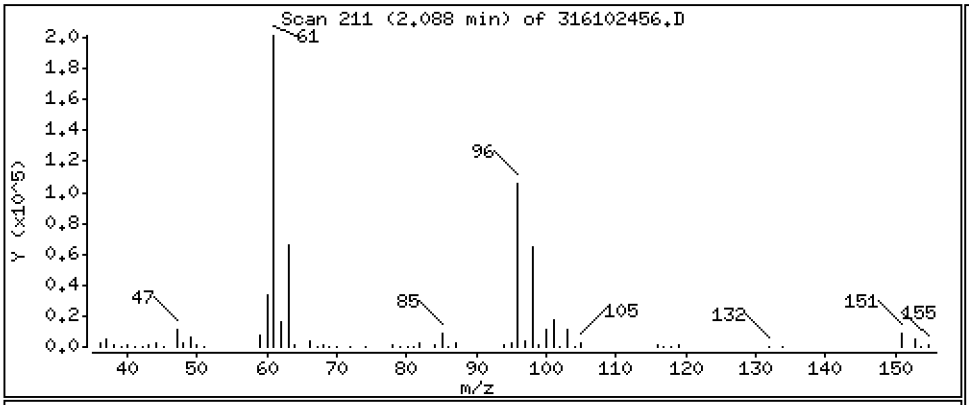
Client ID: Instrument: ms03.i

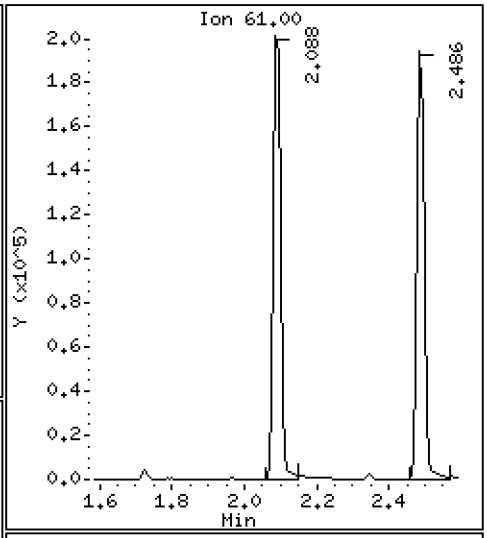
Sample Info: 1236;;1;1;3;;;

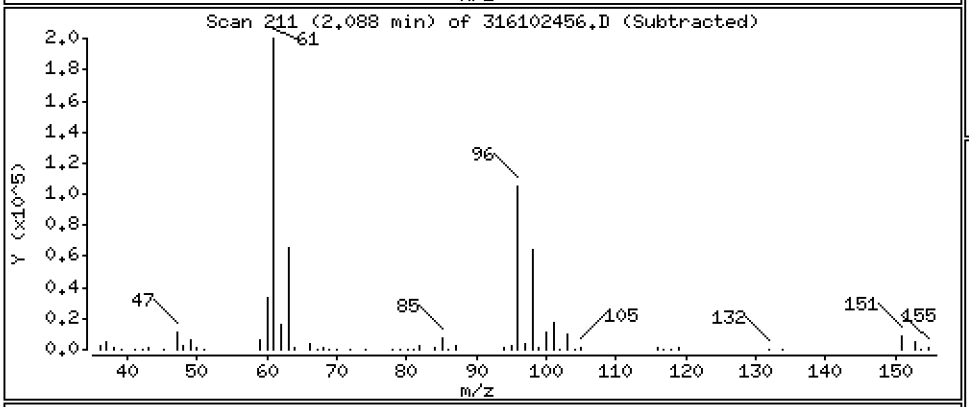
Purge Volume: 5.0 Operator: CJG

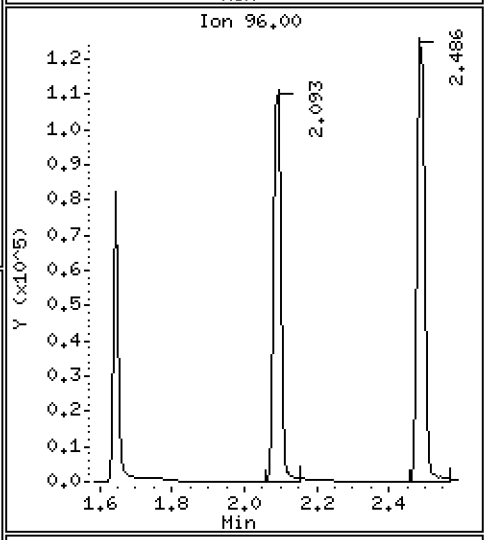
Column phase: DB-VRX Column diameter: 0.25

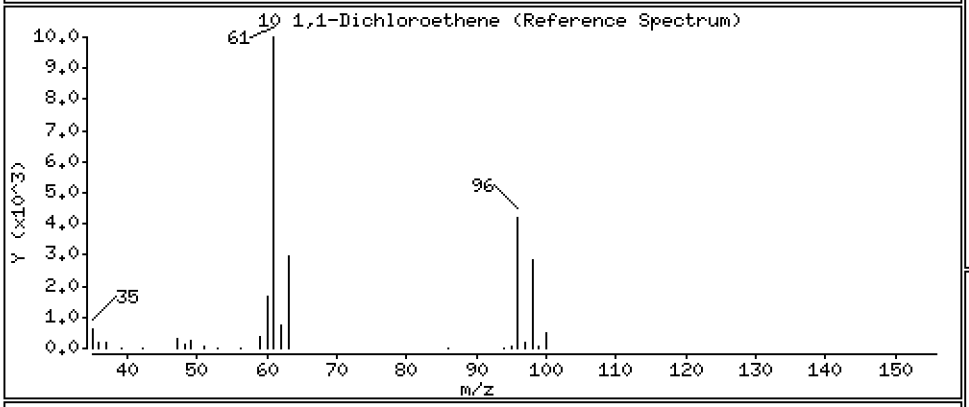
10 1,1-Dichloroethene Concentration: 20.8694 ug/L

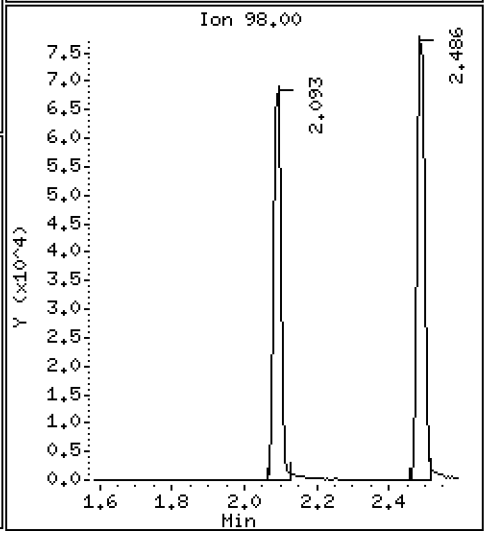


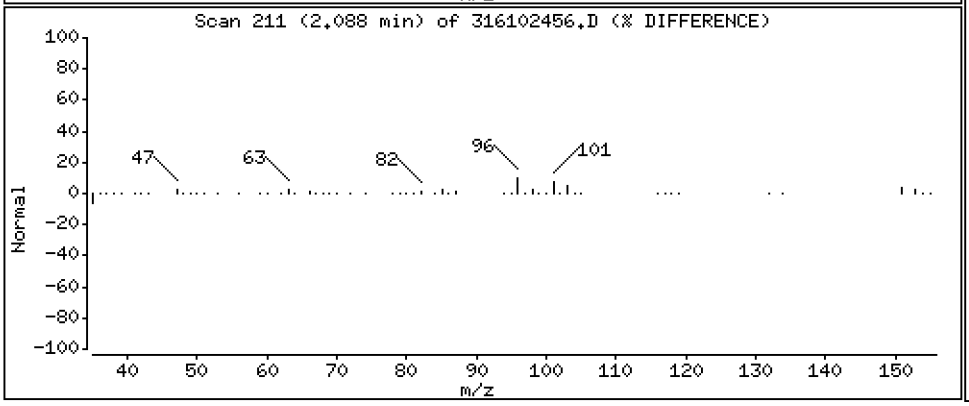












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 19

Date : 25-OCT-2016 00:30

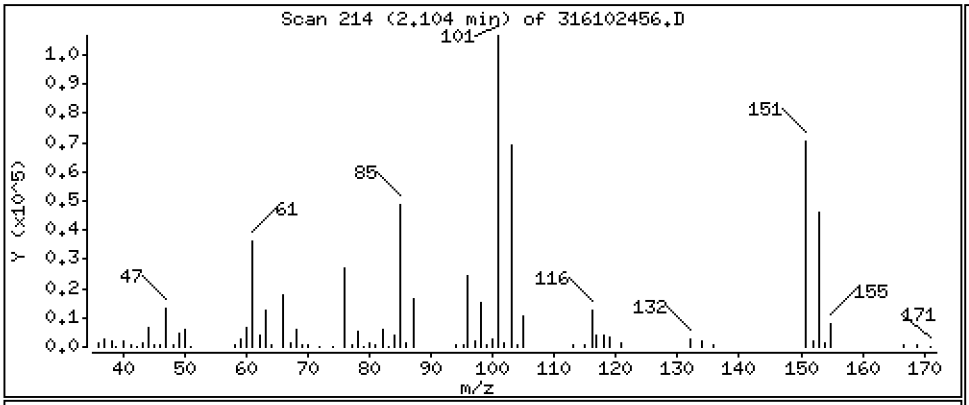
Client ID: Instrument: ms03.i

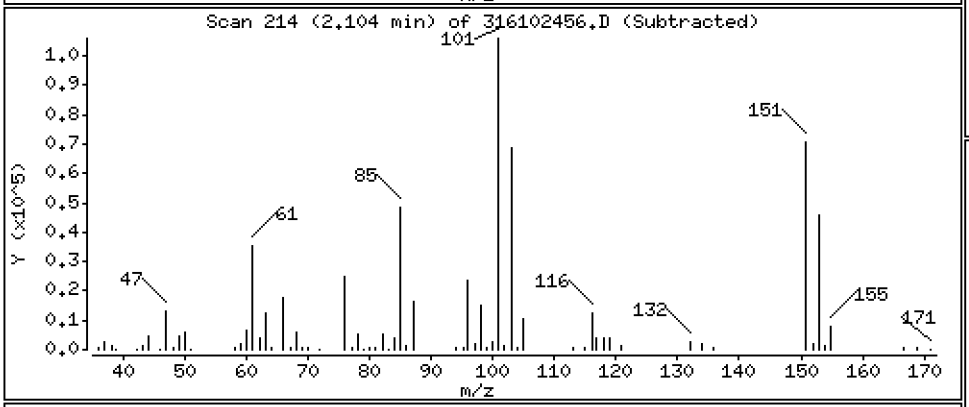
Sample Info: 1236;;1;1;3;;;

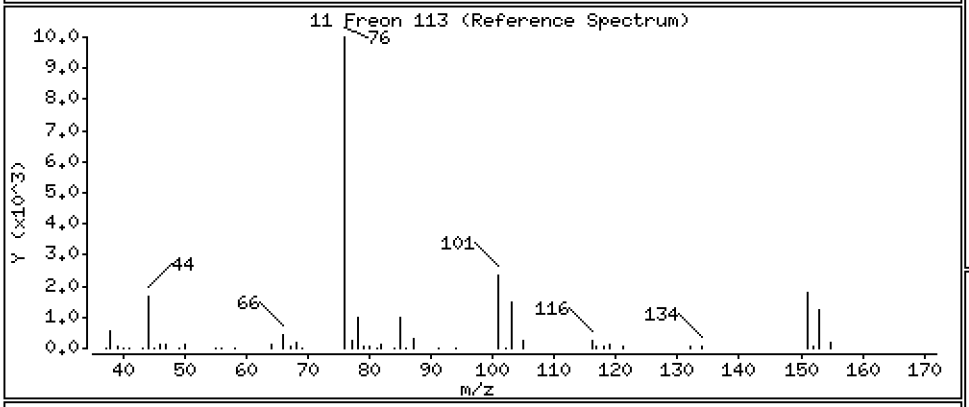
Purge Volume: 5.0 Operator: CJG

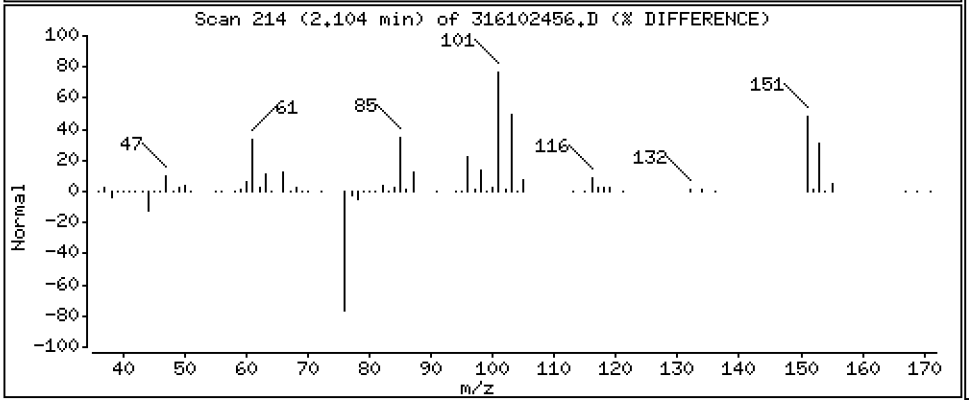
Column phase: DB-VRX Column diameter: 0.25

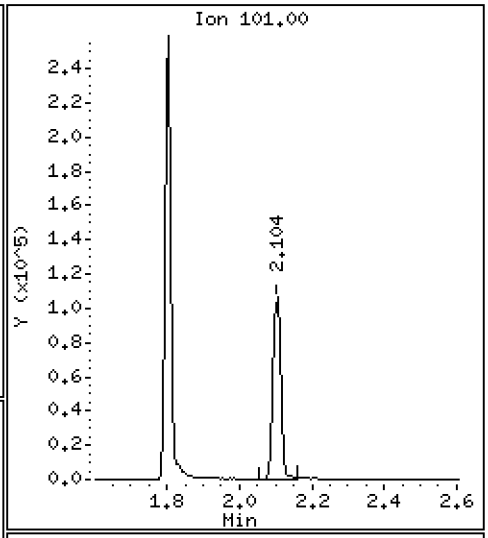
11 Freon 113 Concentration: 22.7523 ug/L

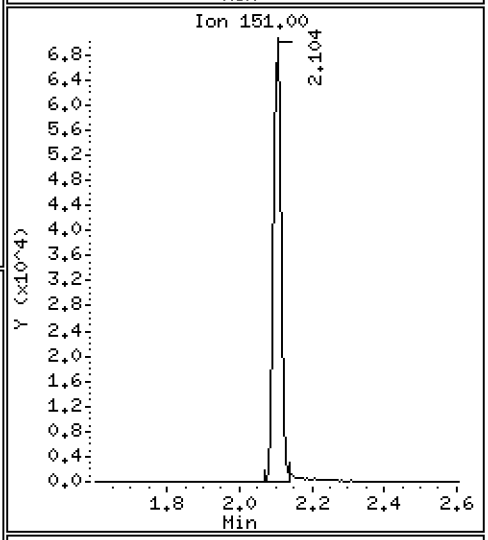


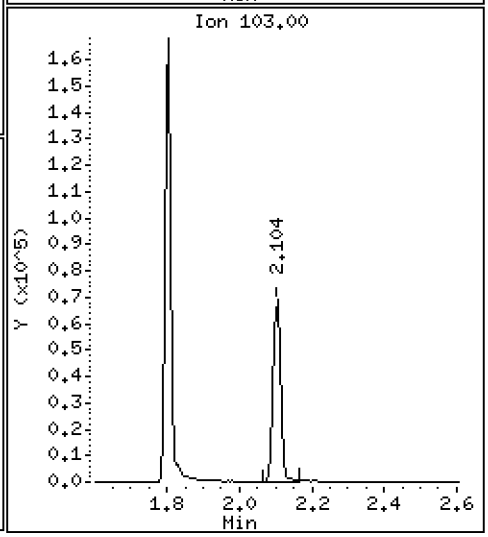












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 20

Date : 25-OCT-2016 00:30

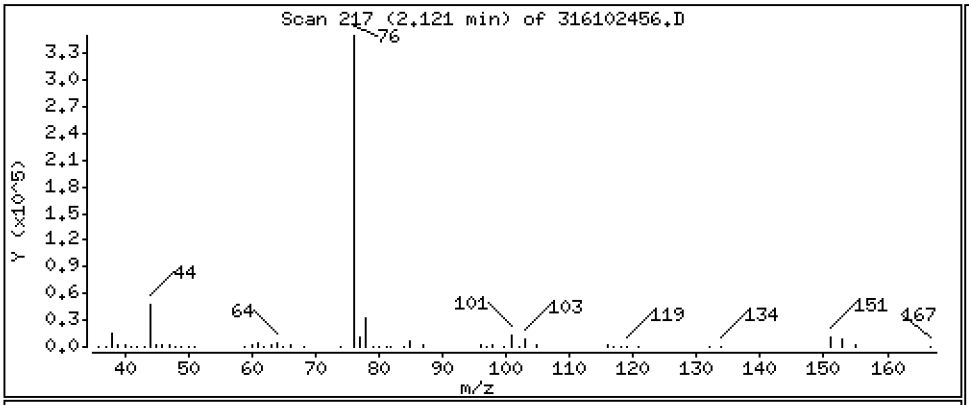
Client ID: Instrument: ms03.i

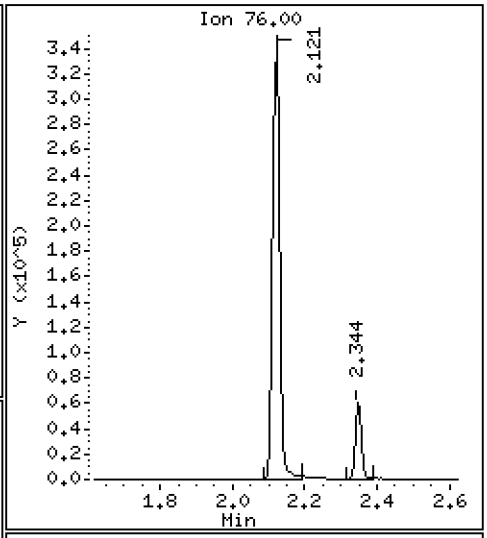
Sample Info: 1236;;1;1;3;;;

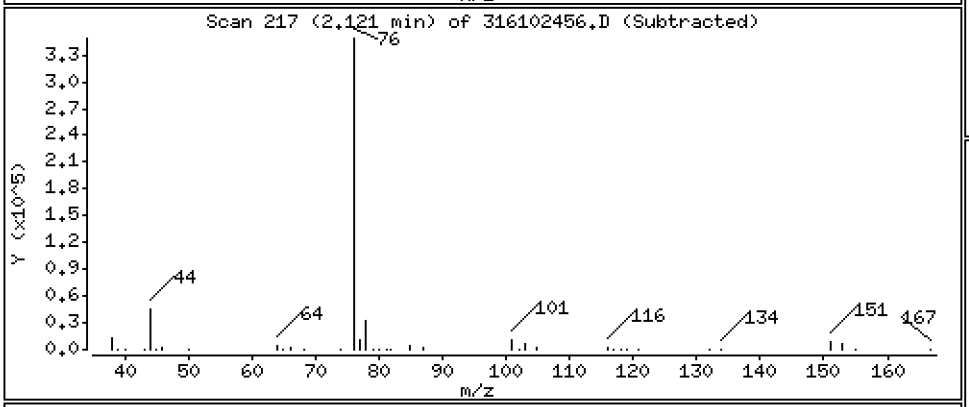
Purge Volume: 5.0 Operator: CJG

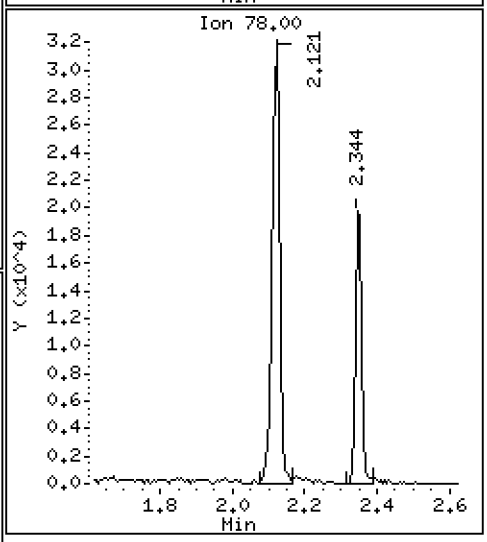
Column phase: DB-VRX Column diameter: 0.25

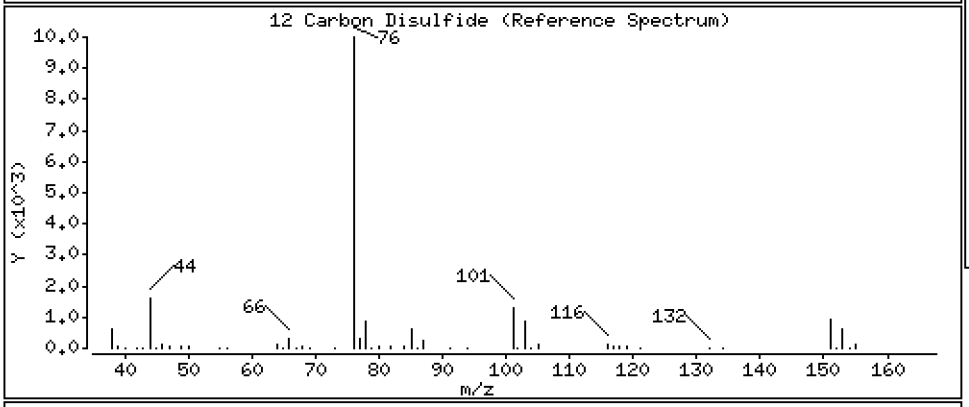
12 Carbon Disulfide Concentration: 19.2877 ug/L

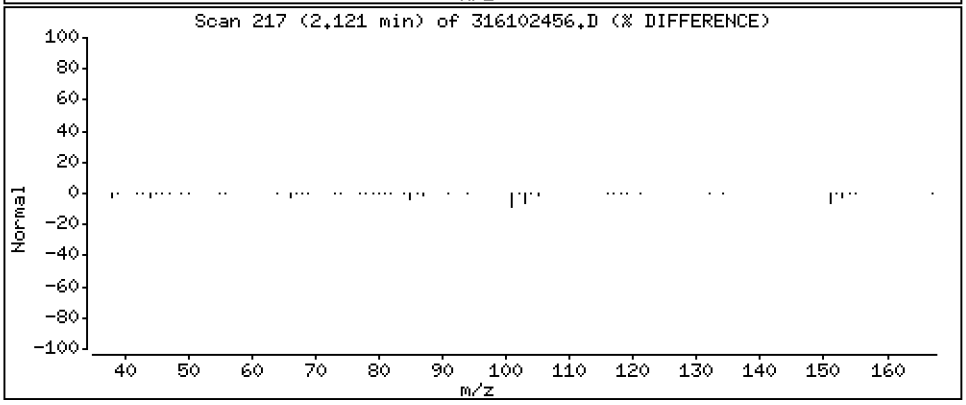












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 21

Date : 25-OCT-2016 00:30

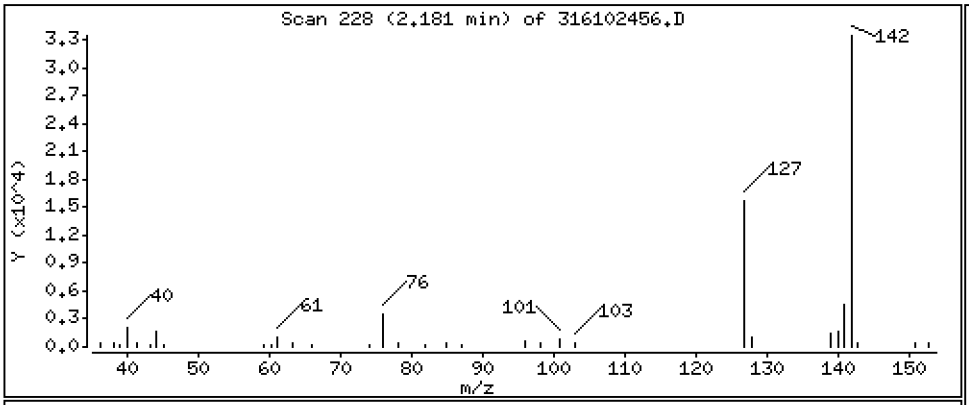
Client ID: Instrument: ms03.i

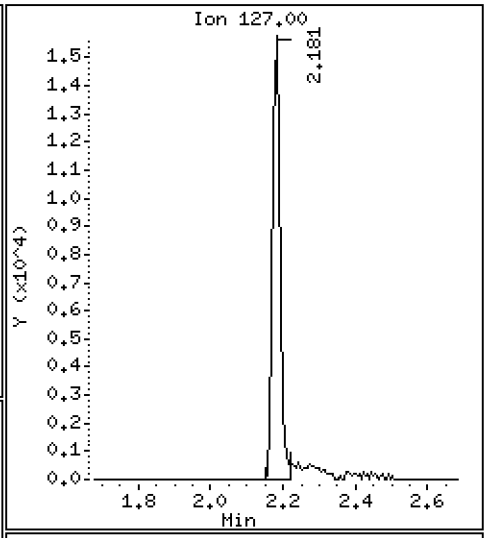
Sample Info: 1236;;1;1;3;;;

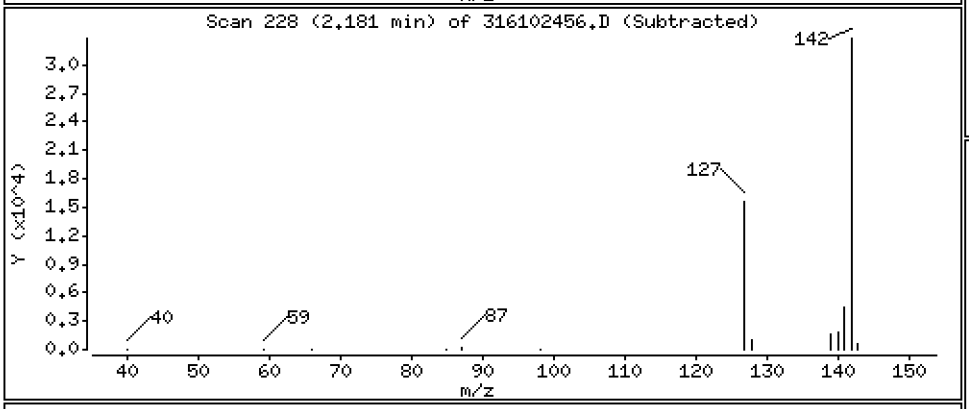
Purge Volume: 5.0 Operator: CJG

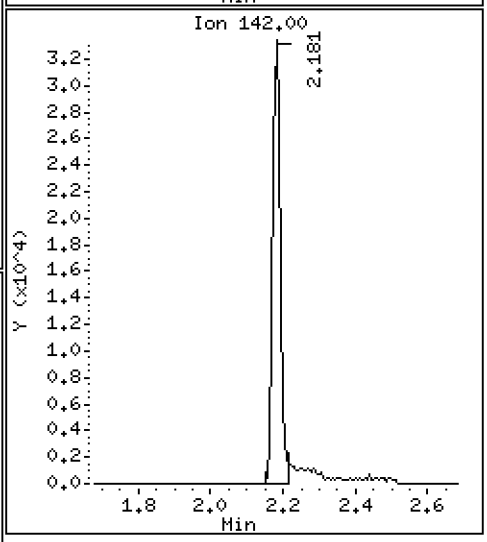
Column phase: DB-VRX Column diameter: 0.25

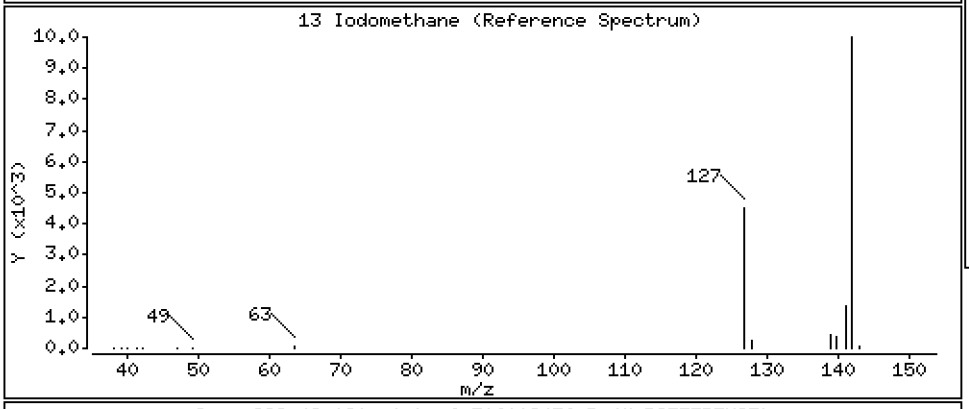
13 Iodomethane Concentration: 16.4160 ug/L

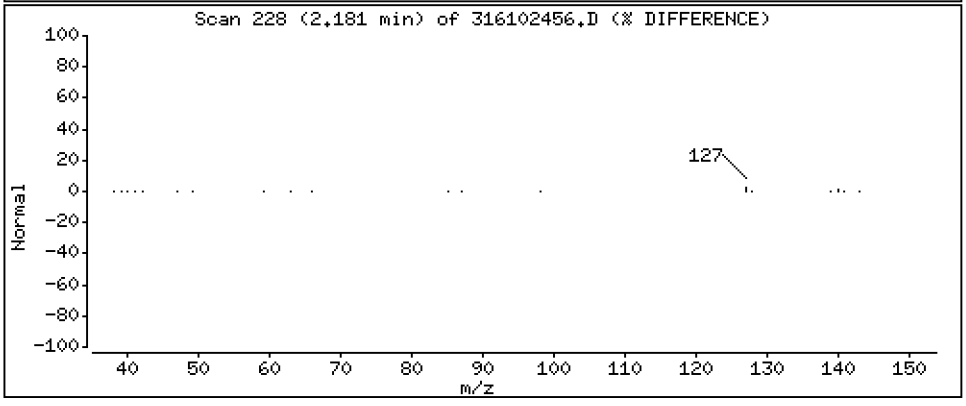












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 22

Date : 25-OCT-2016 00:30

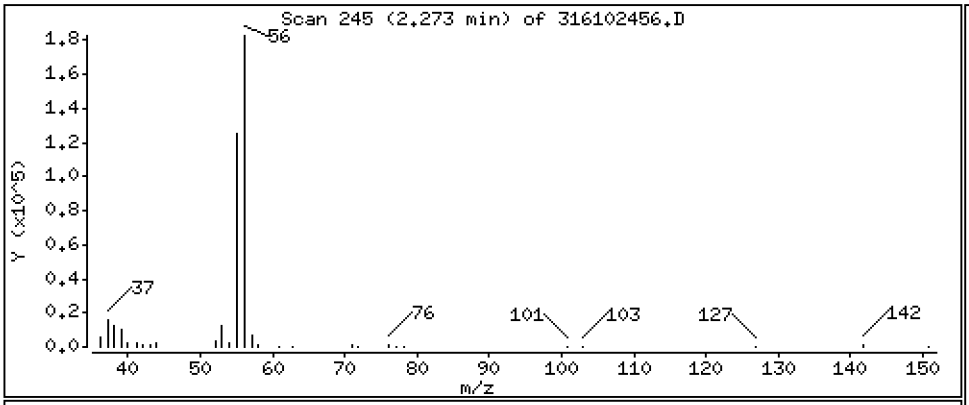
Client ID: Instrument: ms03.i

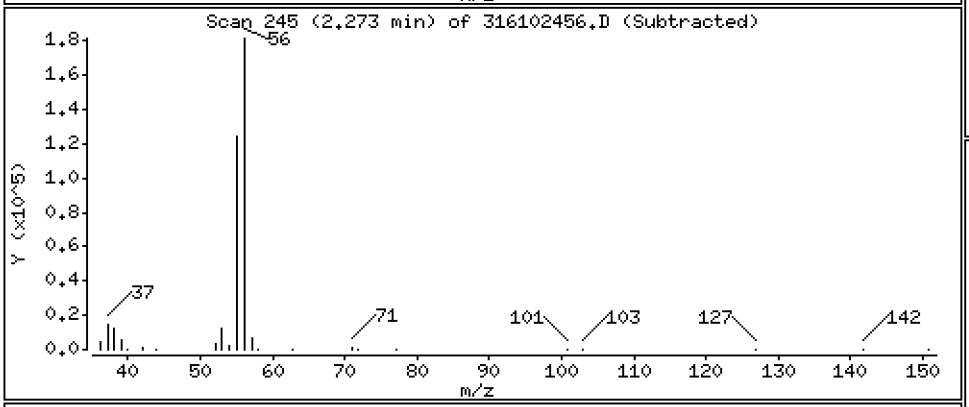
Sample Info: 1236;;1;1;3;;;

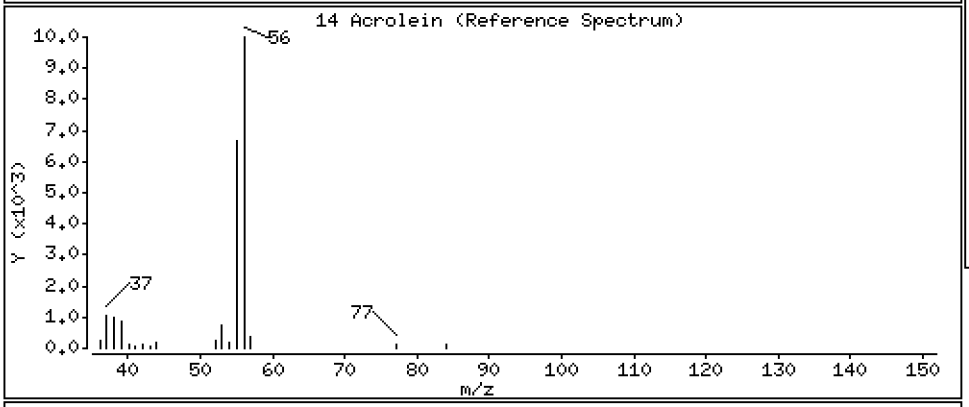
Purge Volume: 5.0 Operator: CJG

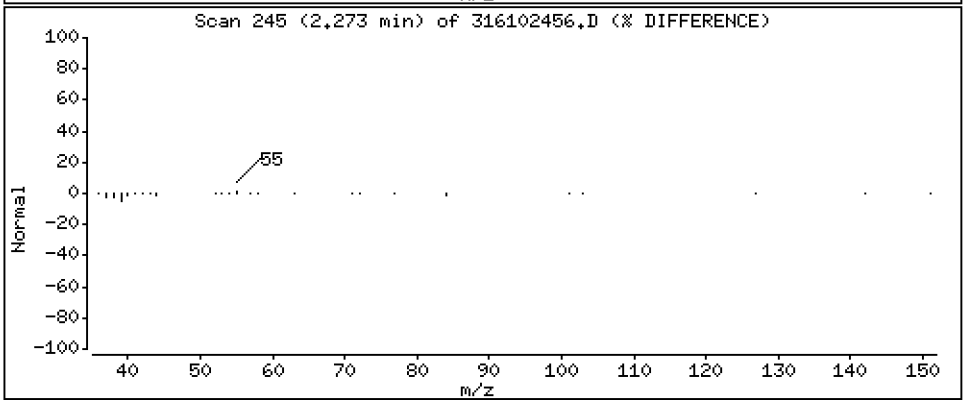
Column phase: DB-VRX Column diameter: 0.25

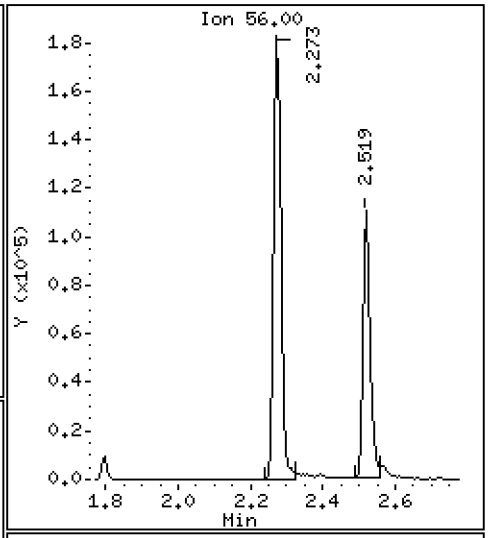
14 Acrolein Concentration: 191.614 ug/L

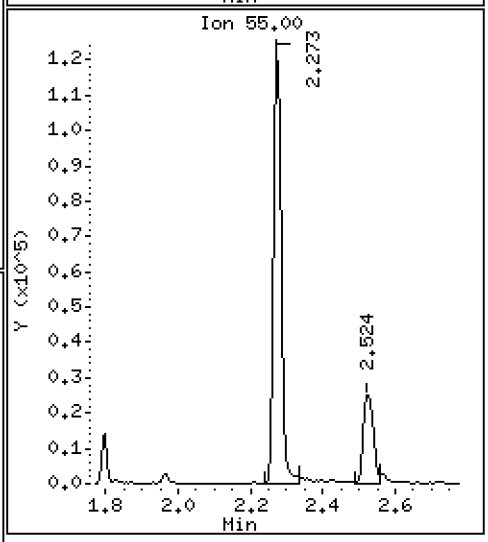












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 23

Date : 25-OCT-2016 00:30

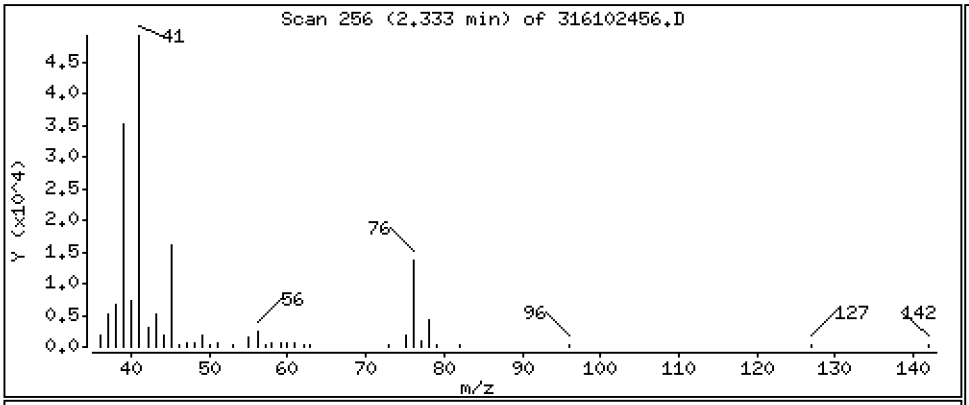
Client ID: Instrument: ms03.i

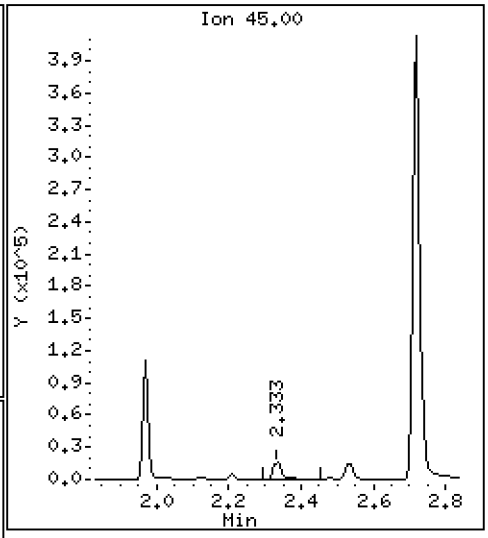
Sample Info: 1236;;1;1;3;;;

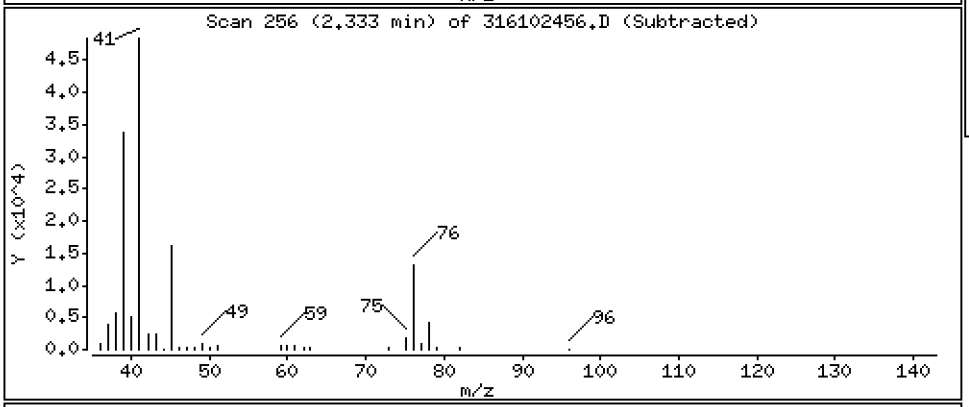
Purge Volume: 5.0 Operator: CJG

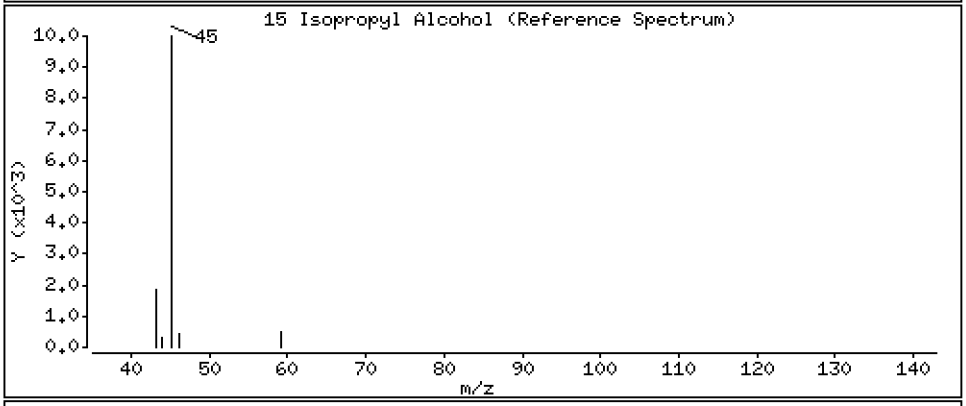
Column phase: DB-VRX Column diameter: 0.25

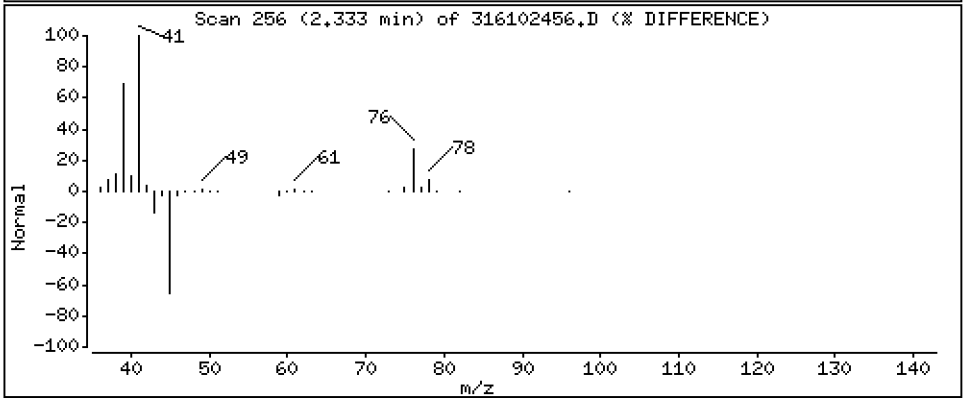
15 Isopropyl Alcohol Concentration: 102.011 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 24

Date : 25-OCT-2016 00:30

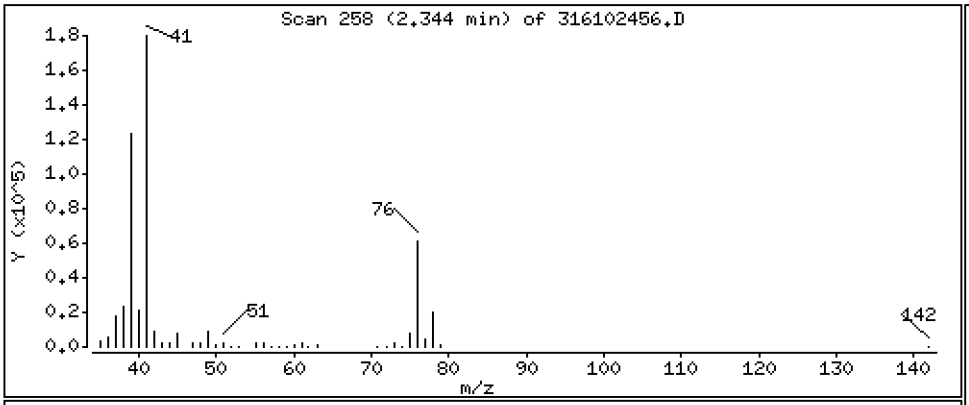
Client ID: Instrument: ms03.i

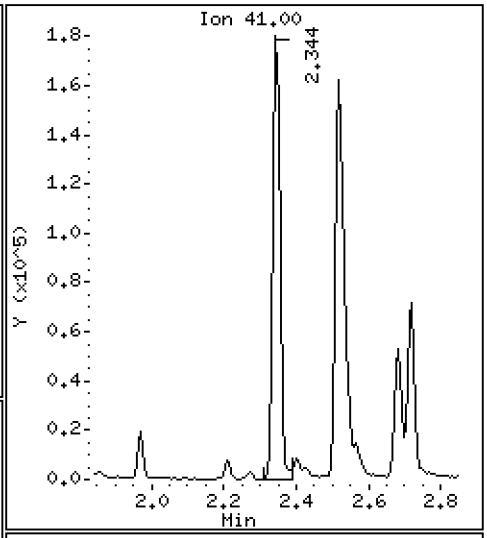
Sample Info: 1236;;1;1;3;;;

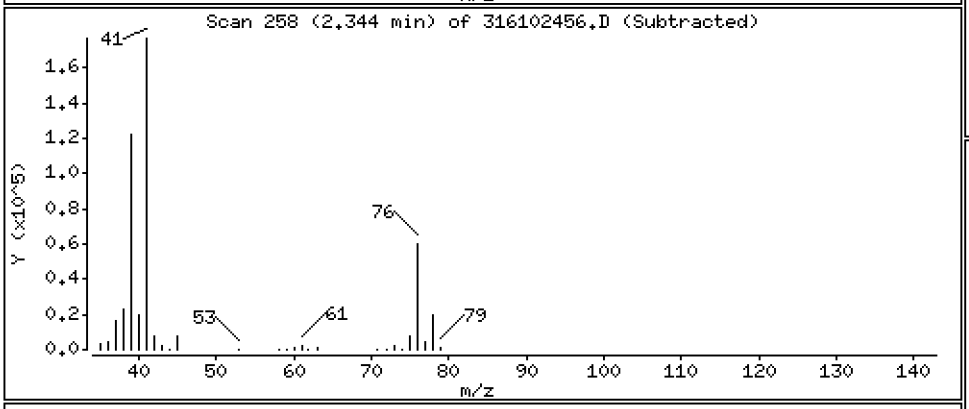
Purge Volume: 5.0 Operator: CJG

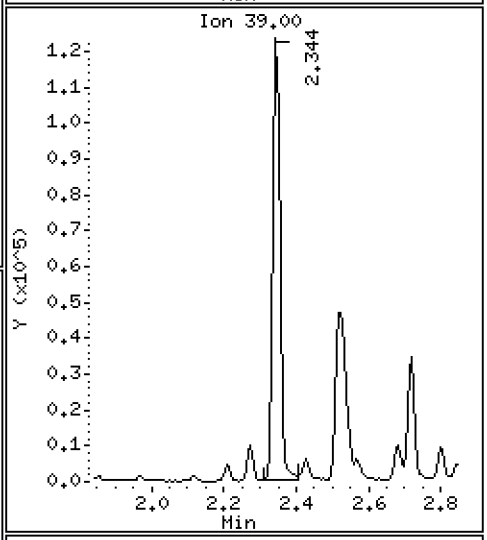
Column phase: DB-VRX Column diameter: 0.25

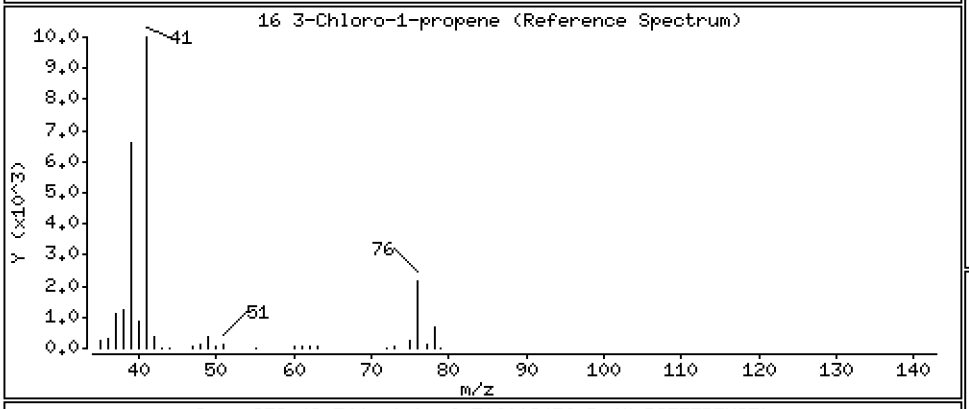
16 3-Chloro-1-propene Concentration: 19.3527 ug/L

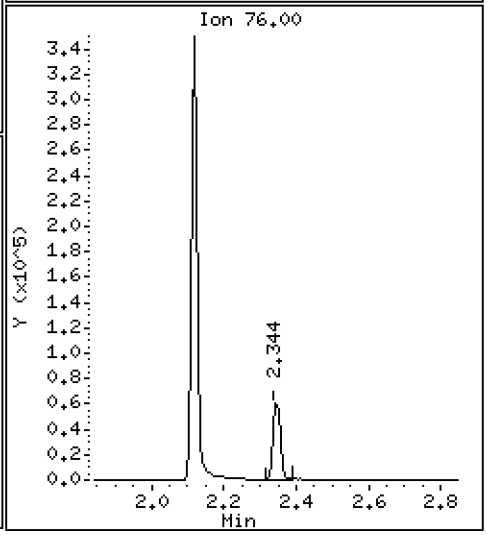


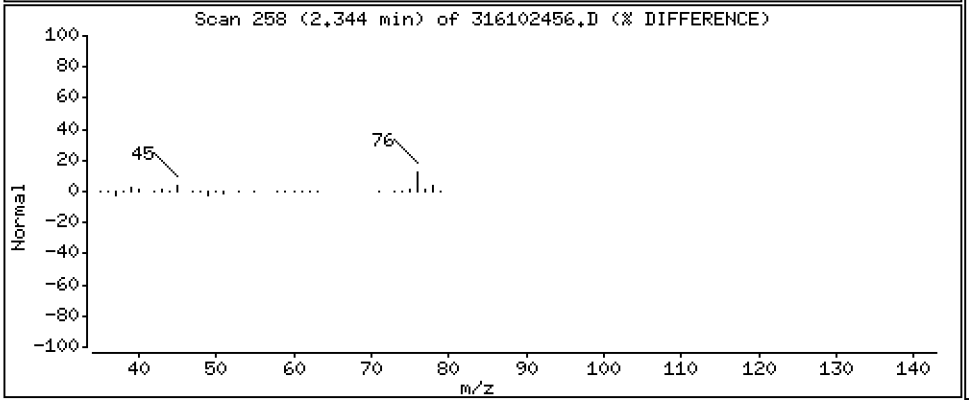












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 25

Date : 25-OCT-2016 00:30

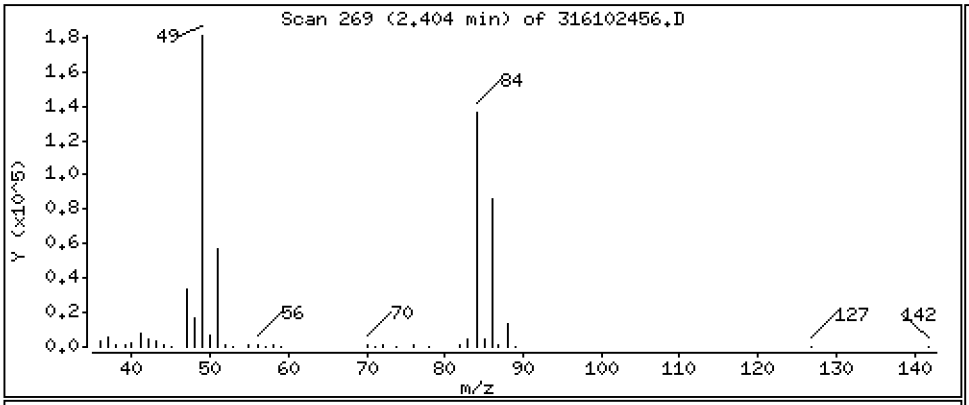
Client ID: Instrument: ms03.i

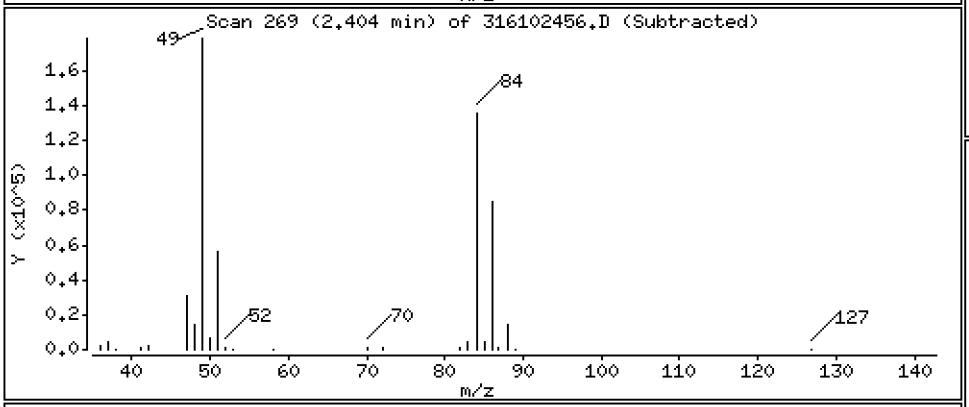
Sample Info: 1236;;1;1;3;;;

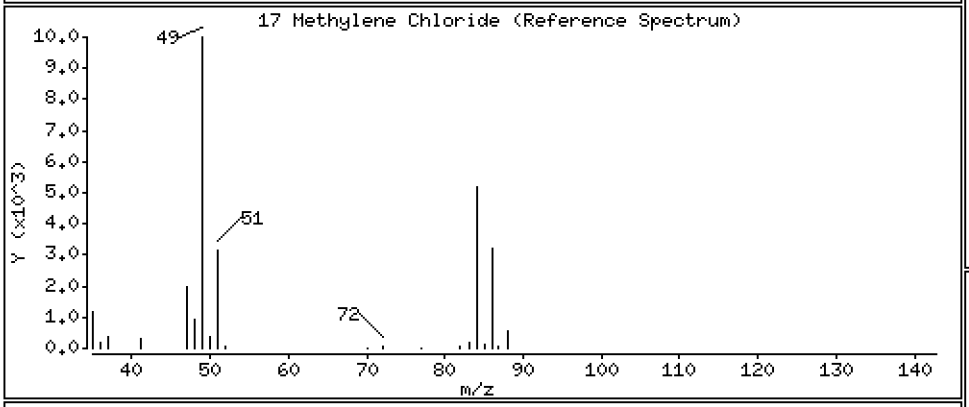
Purge Volume: 5.0 Operator: CJG

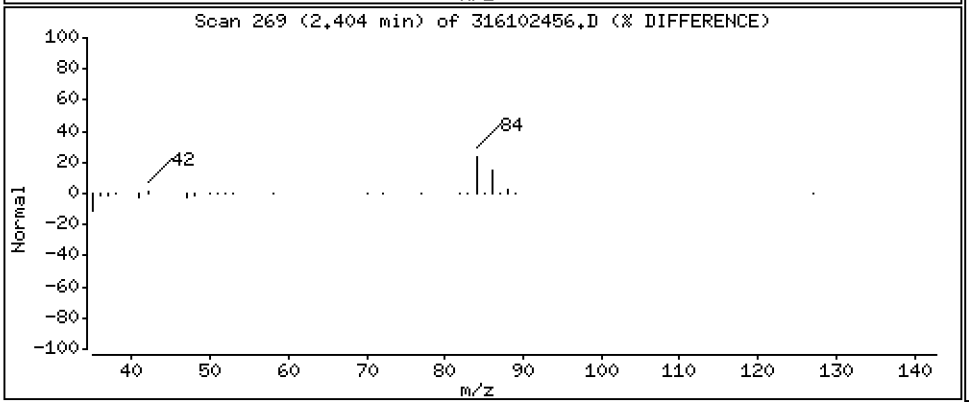
Column phase: DB-VRX Column diameter: 0.25

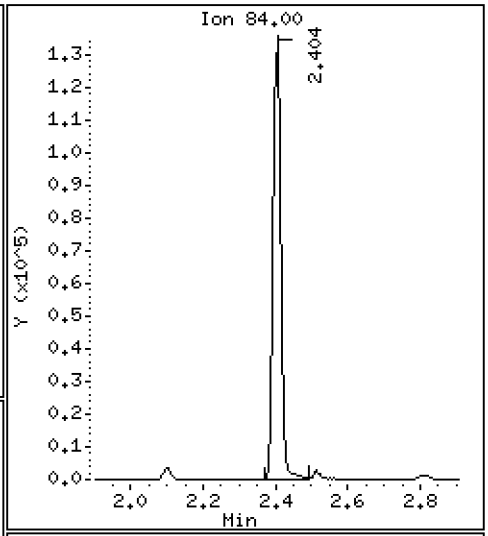
17 Methylene Chloride Concentration: 20.2759 ug/L

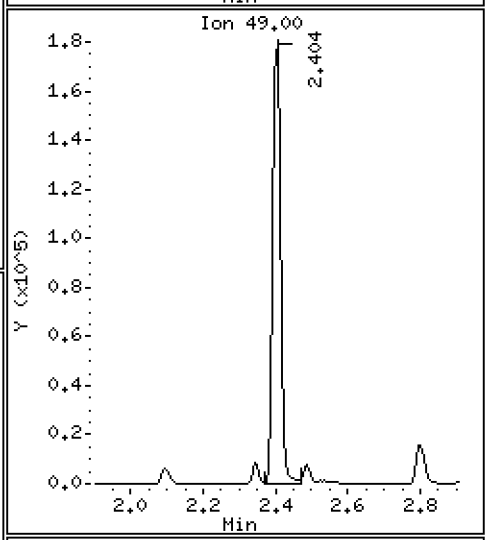


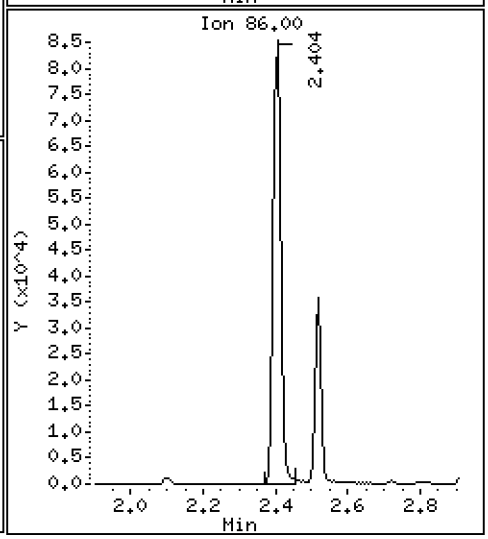












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 26

Date : 25-OCT-2016 00:30

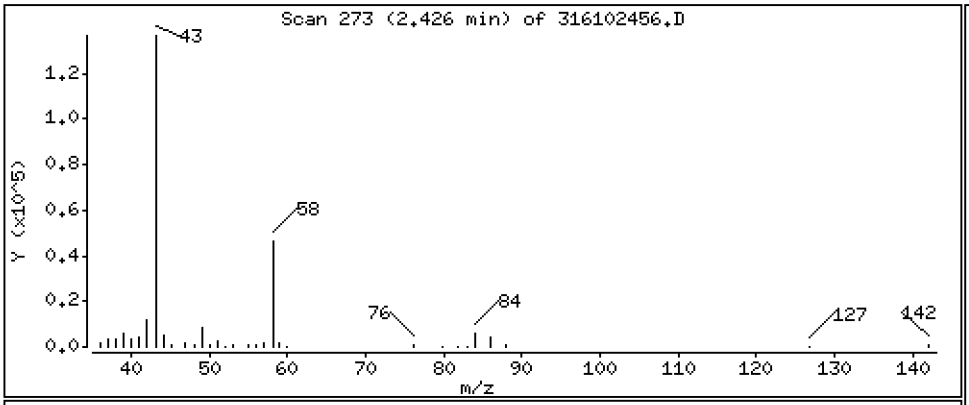
Client ID: Instrument: ms03.i

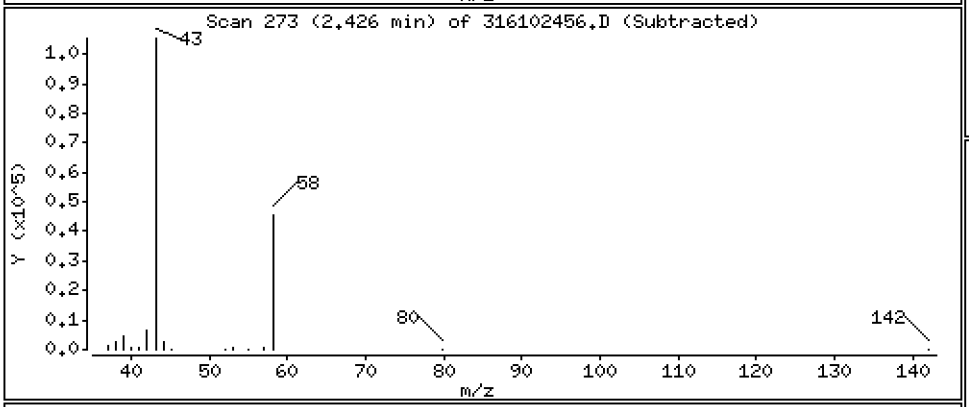
Sample Info: 1236;;1;1;3;;;

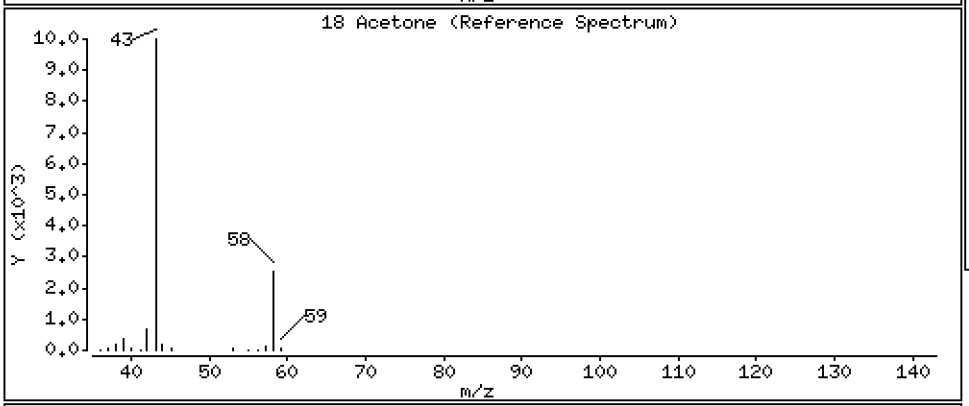
Purge Volume: 5.0 Operator: CJG

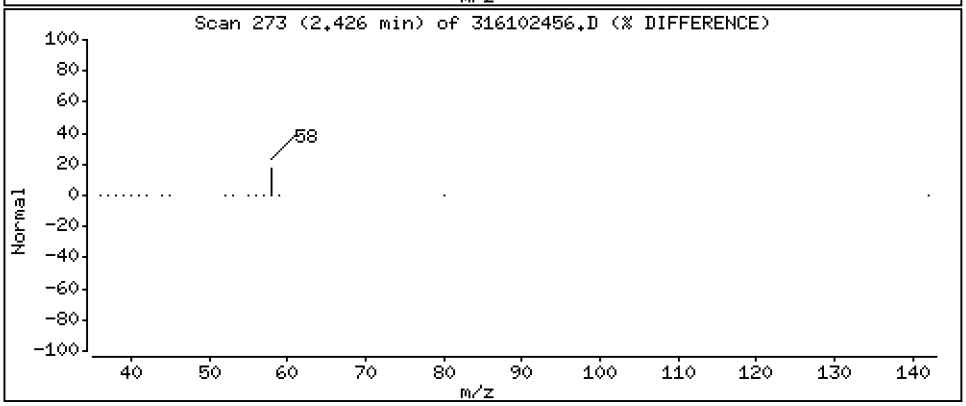
Column phase: DB-VRX Column diameter: 0.25

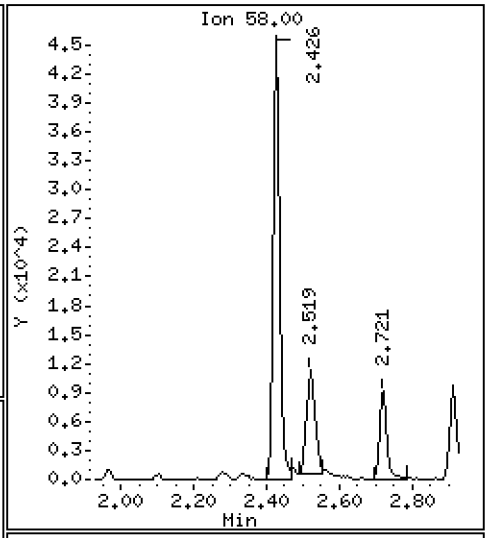
18 Acetone Concentration: 98.5274 ug/L

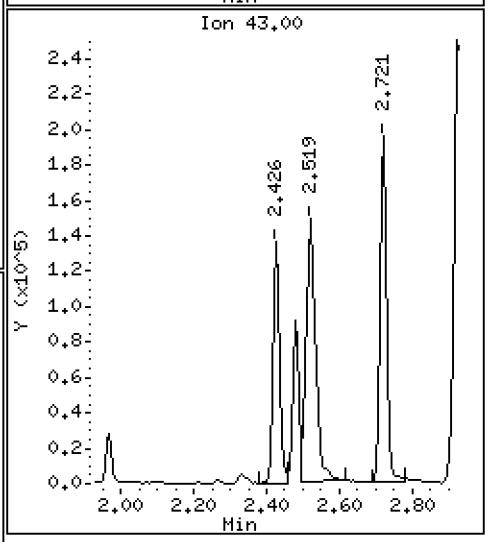












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 27

Date : 25-OCT-2016 00:30

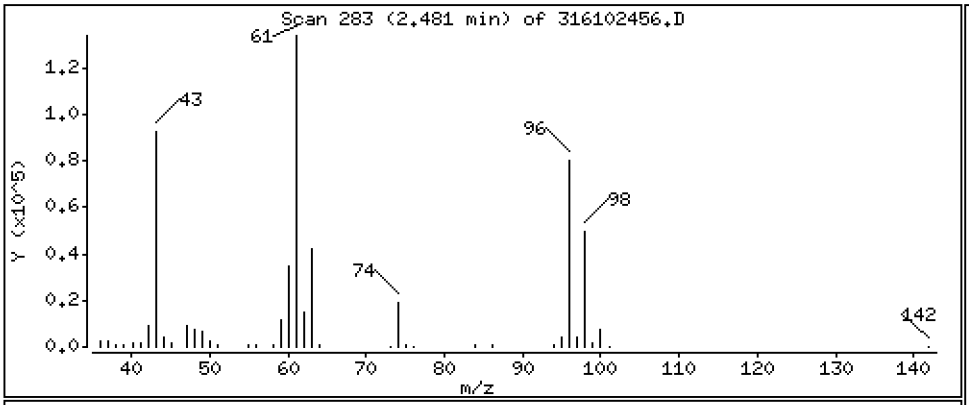
Client ID: Instrument: ms03.i

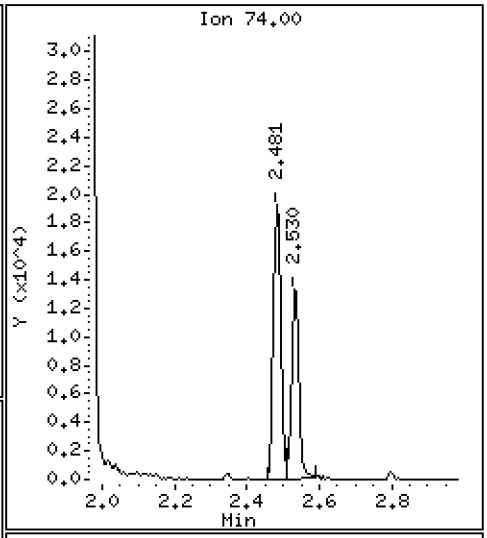
Sample Info: 1236;;1;1;3;;;

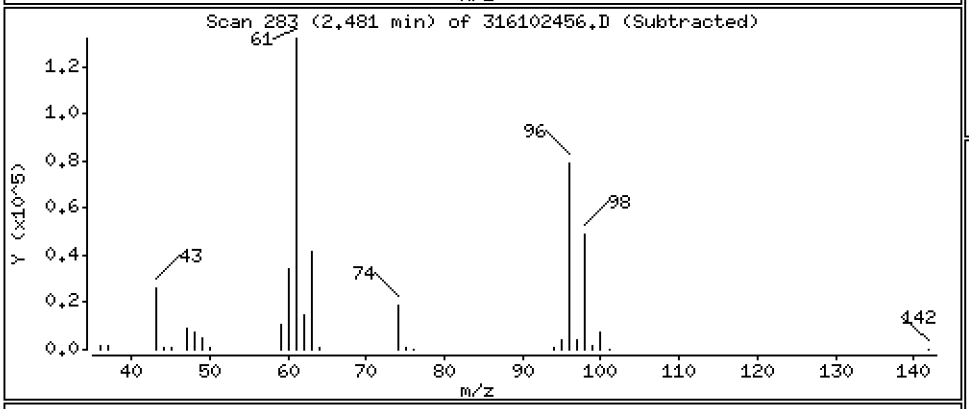
Purge Volume: 5.0 Operator: CJG

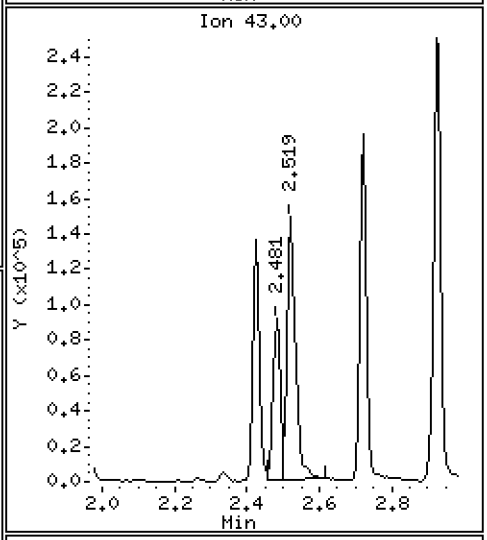
Column phase: DB-VRX Column diameter: 0.25

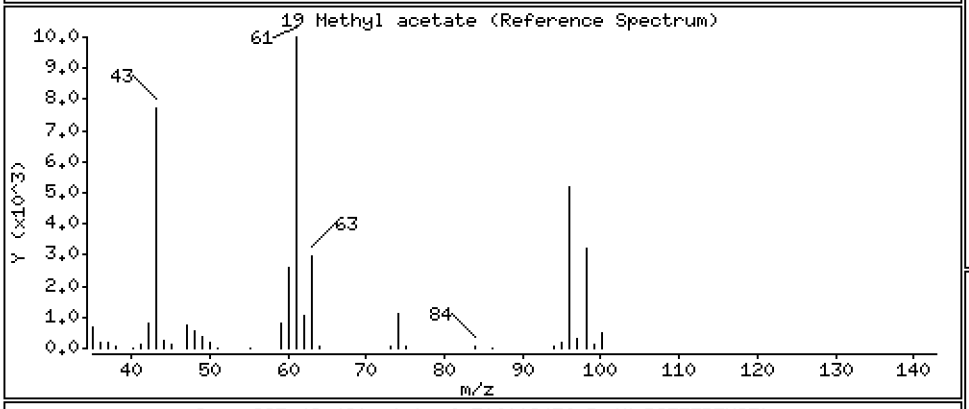
19 Methyl acetate Concentration: 19.6444 ug/L

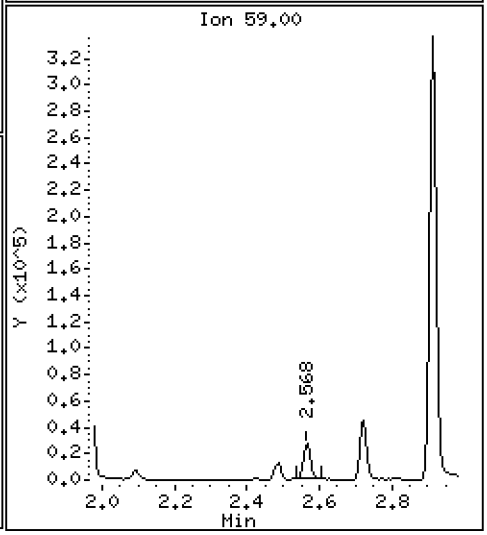


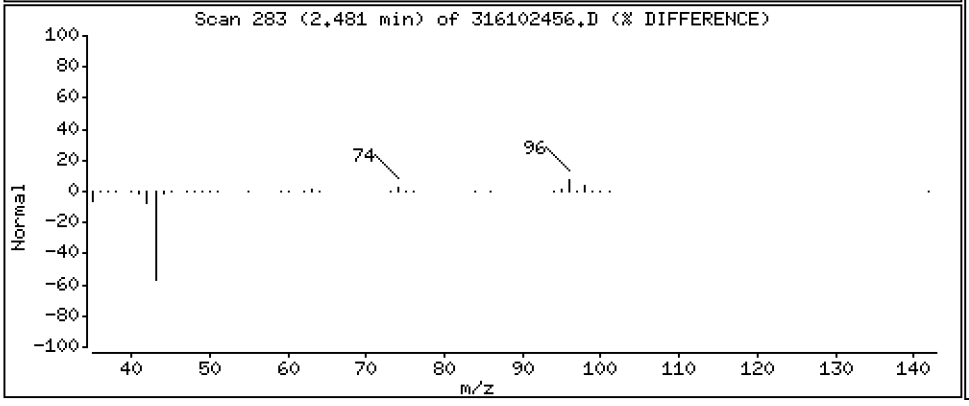












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 28

Date : 25-OCT-2016 00:30

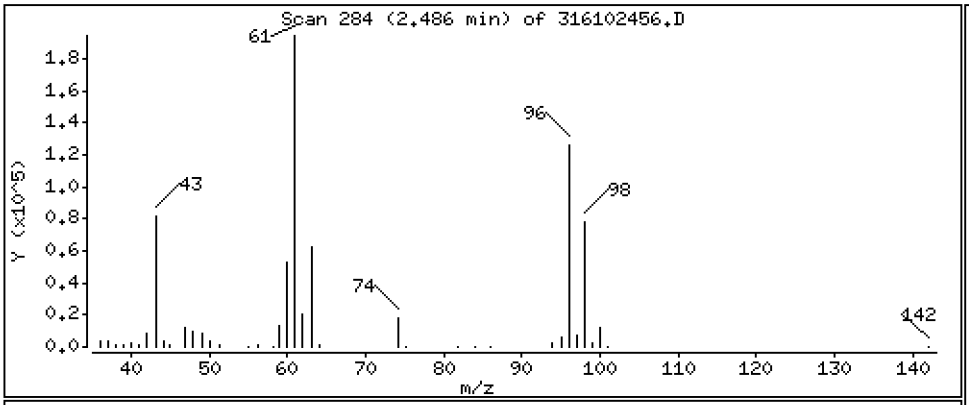
Client ID: Instrument: ms03.i

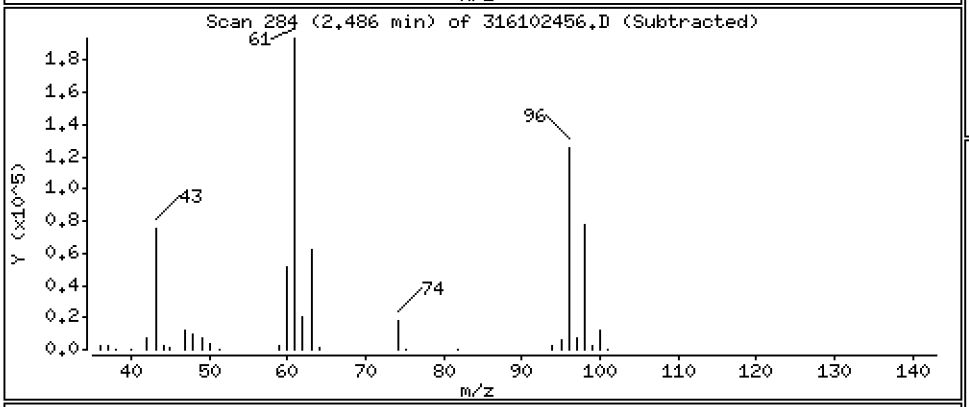
Sample Info: 1236;;1;1;3;;;

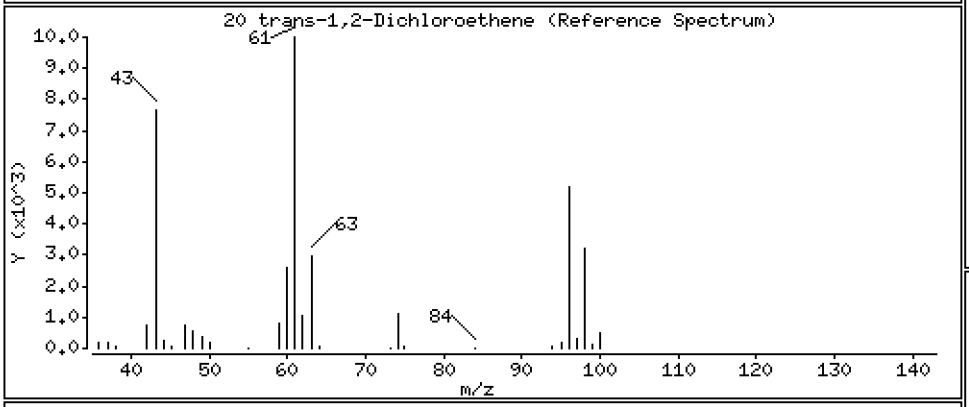
Purge Volume: 5.0 Operator: CJG

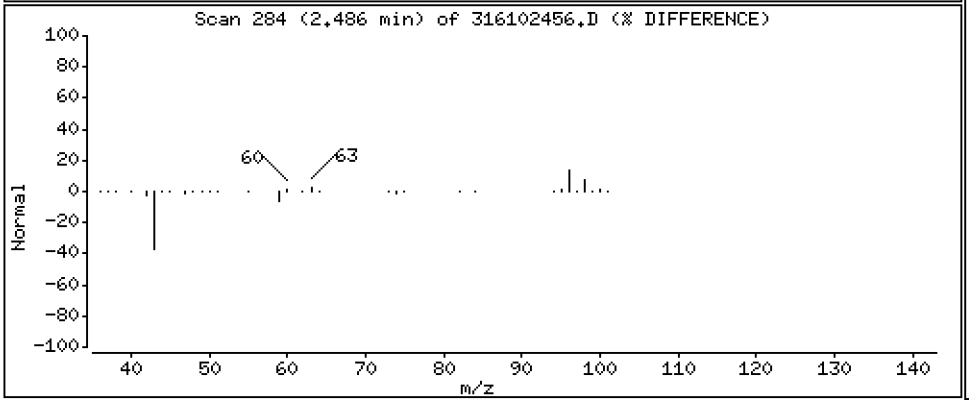
Column phase: DB-VRX Column diameter: 0.25

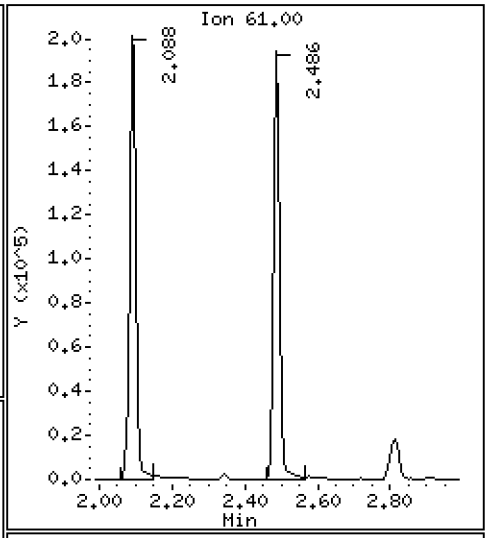
20 trans-1,2-Dichloroethene Concentration: 20.6897 ug/L

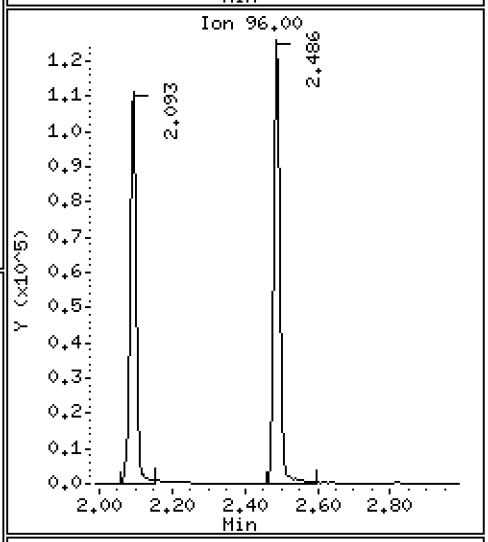


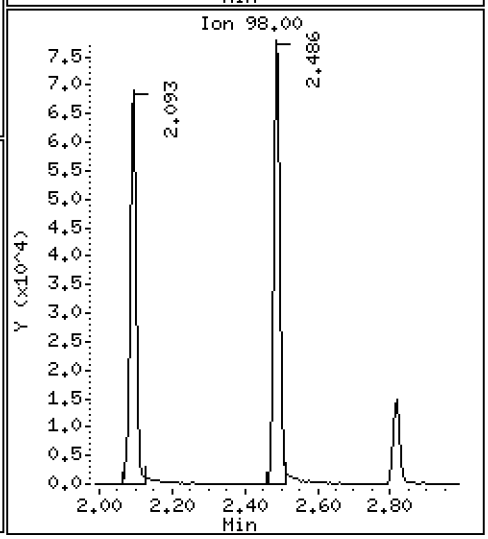












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 29

Date : 25-OCT-2016 00:30

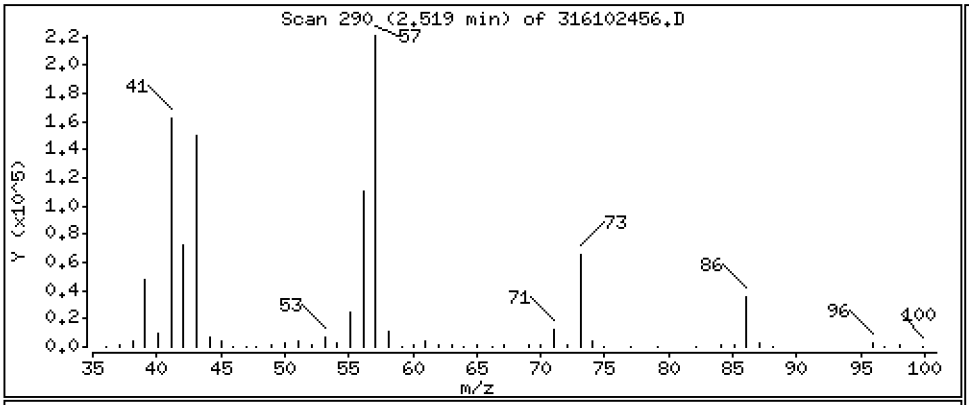
Client ID: Instrument: ms03.i

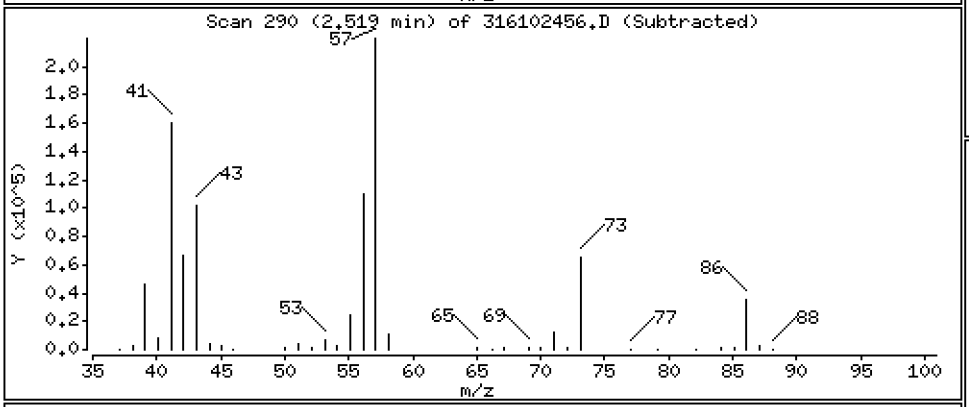
Sample Info: 1236;;1;1;3;;;

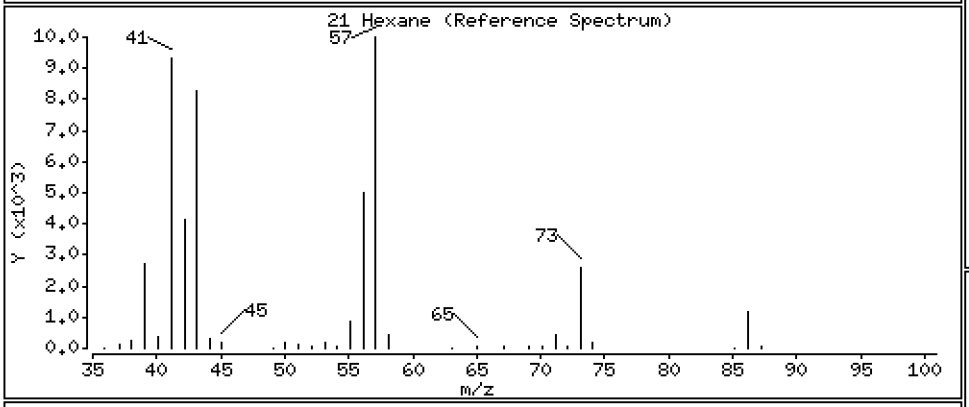
Purge Volume: 5.0 Operator: CJG

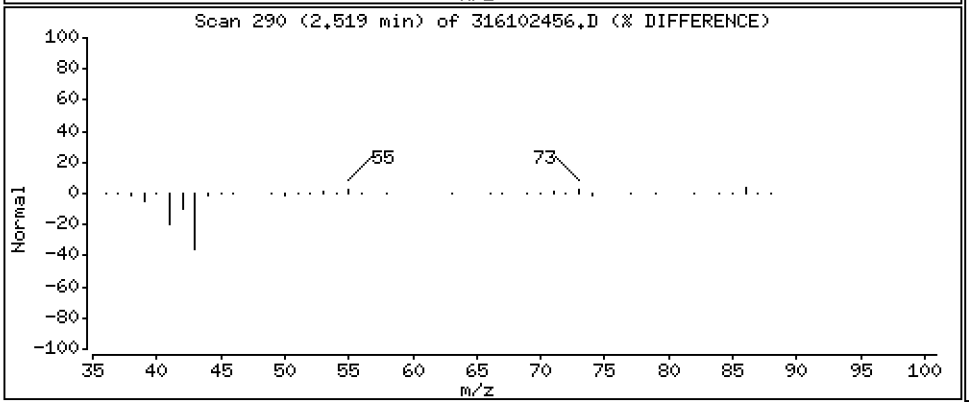
Column phase: DB-VRX Column diameter: 0.25

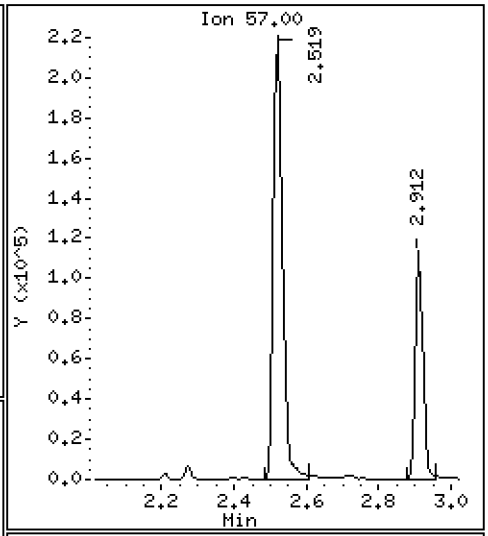
21 Hexane Concentration: 21.5320 ug/L

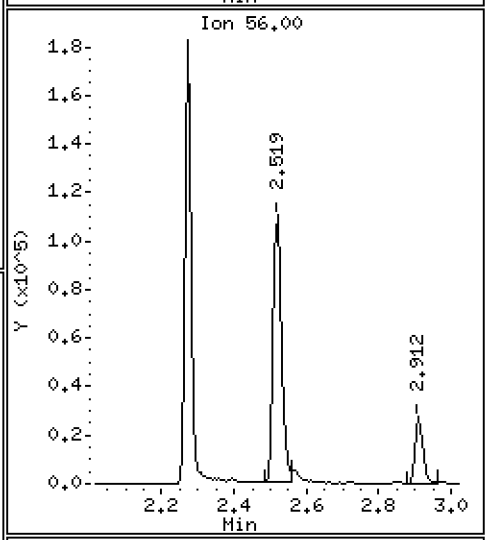


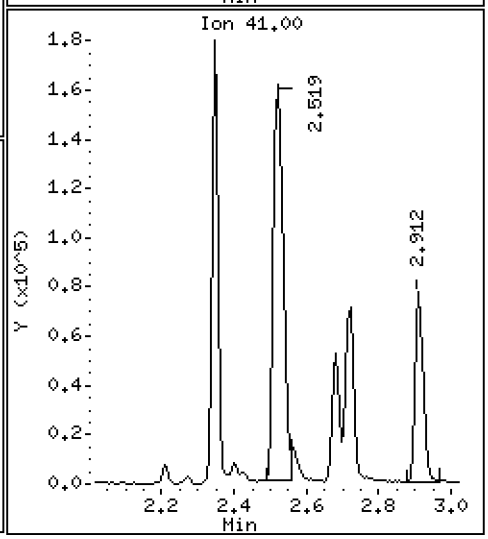












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 30

Date : 25-OCT-2016 00:30

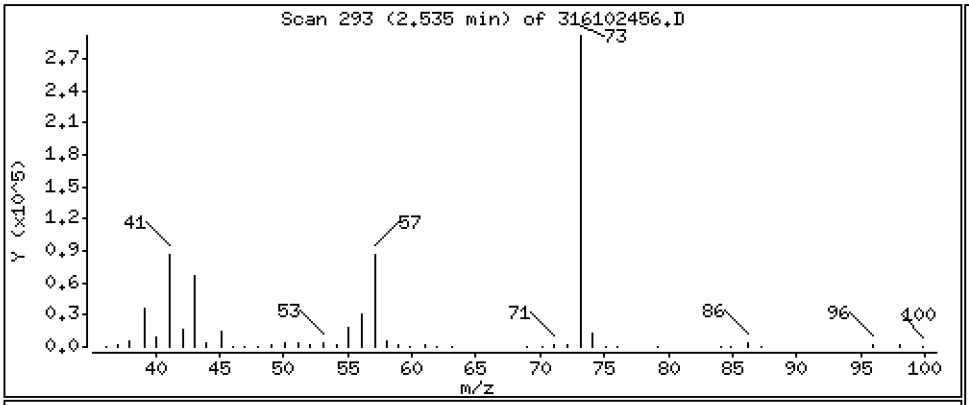
Client ID: Instrument: ms03.i

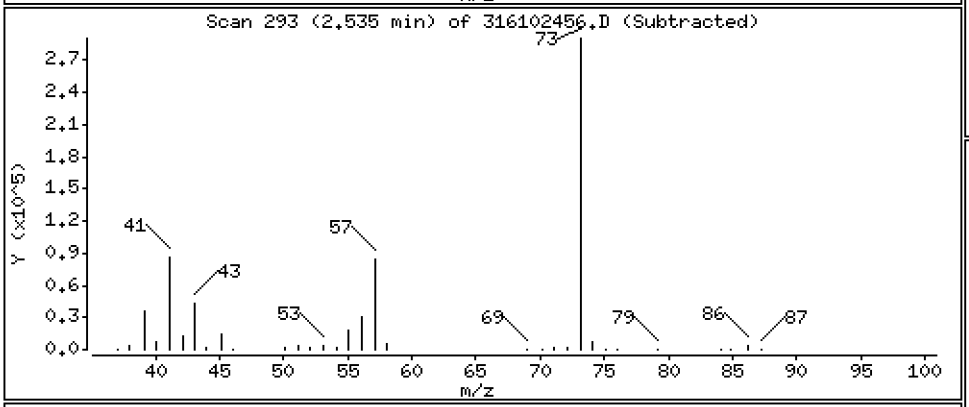
Sample Info: 1236;;1;1;3;;;

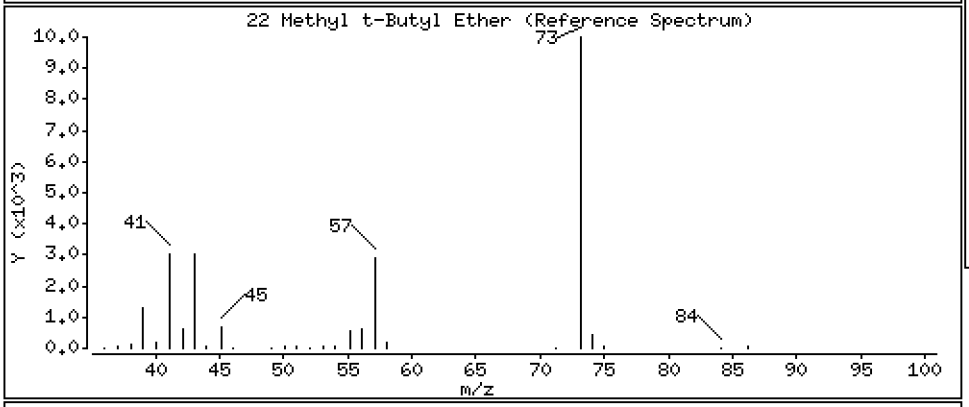
Purge Volume: 5.0 Operator: CJG

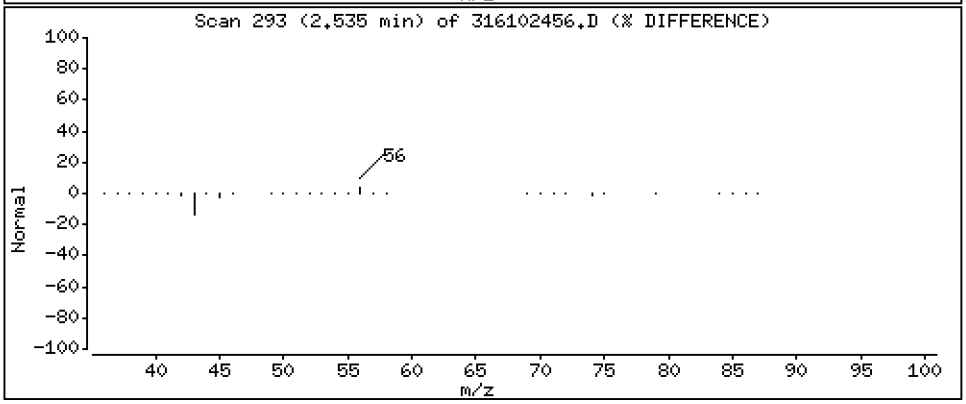
Column phase: DB-VRX Column diameter: 0.25

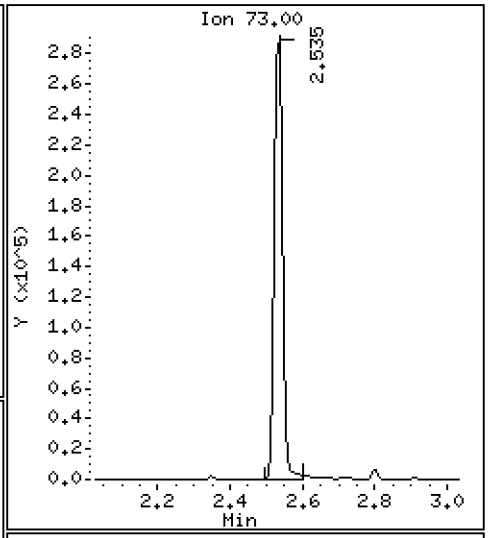
22 Methyl t-Butyl Ether Concentration: 19.2907 ug/L

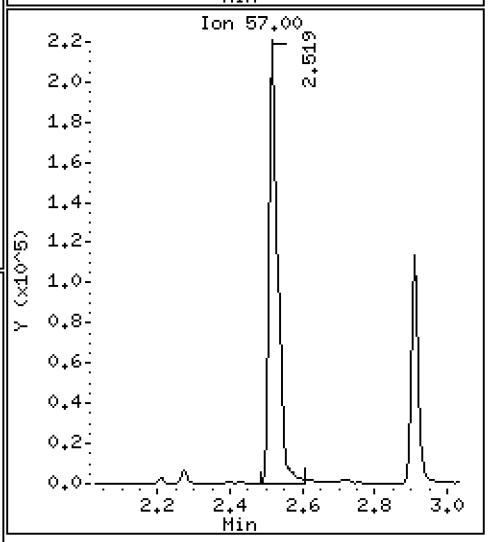












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 31

Date : 25-OCT-2016 00:30

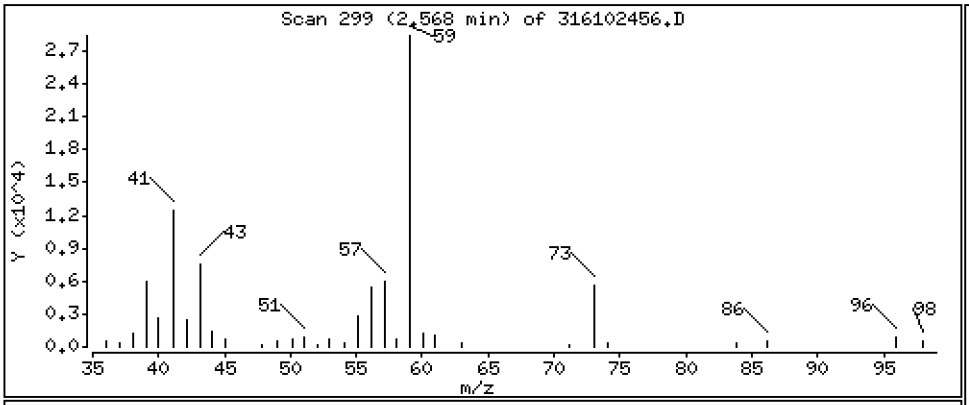
Client ID: Instrument: ms03.i

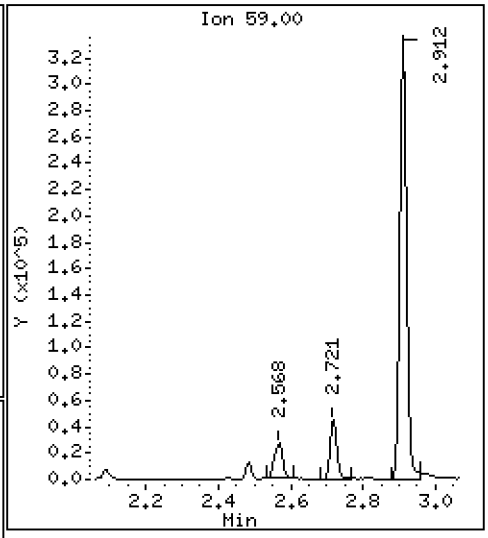
Sample Info: 1236;;1;1;3;;;

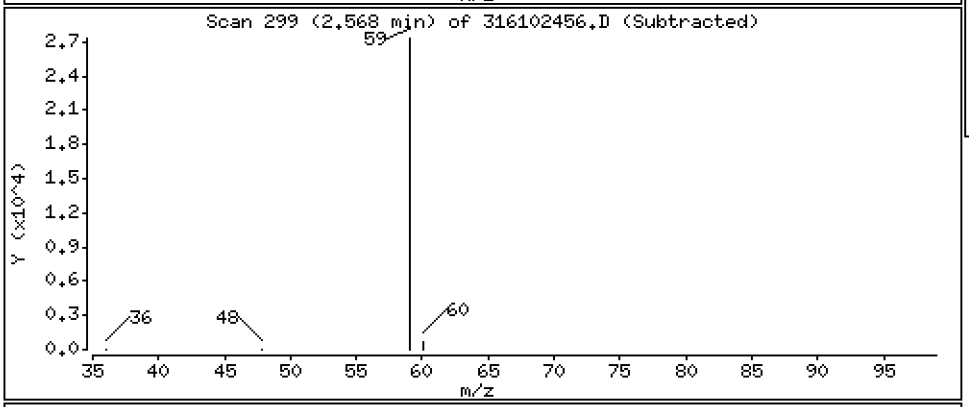
Purge Volume: 5.0 Operator: CJG

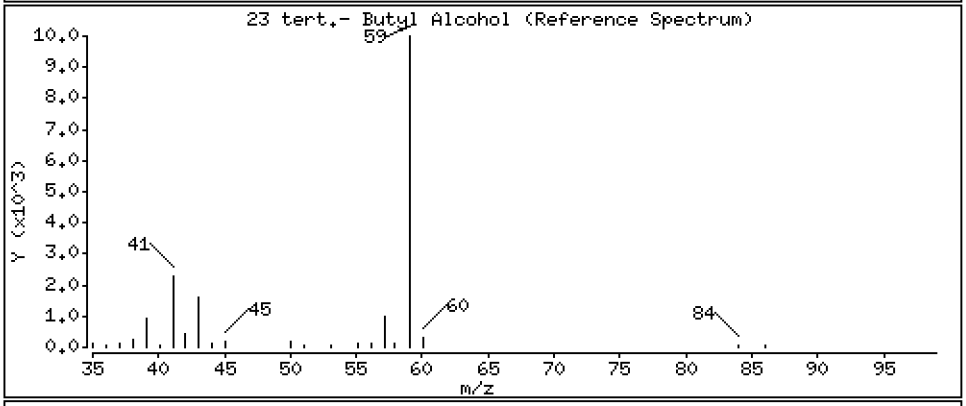
Column phase: DB-VRX Column diameter: 0.25

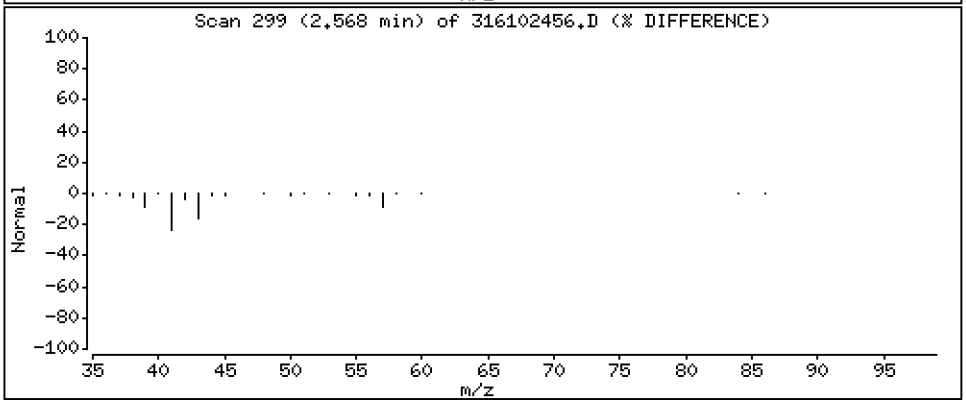
23 tert.- Butyl Alcohol Concentration: 87.0973 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 32

Date : 25-OCT-2016 00:30

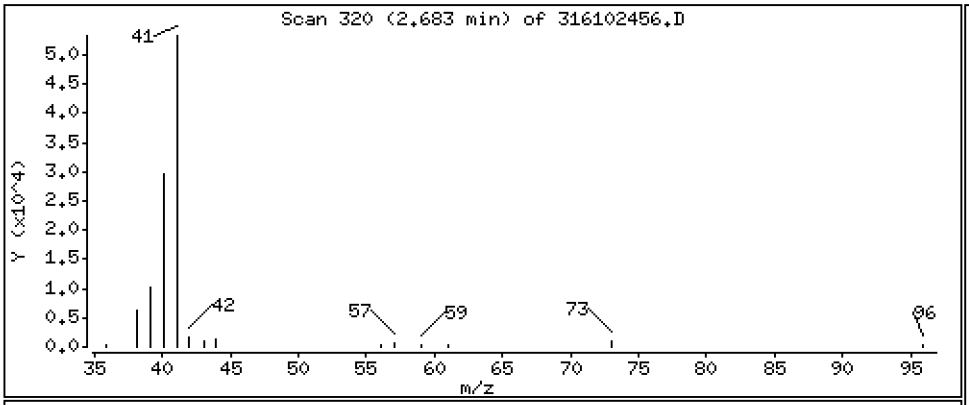
Client ID: Instrument: ms03.i

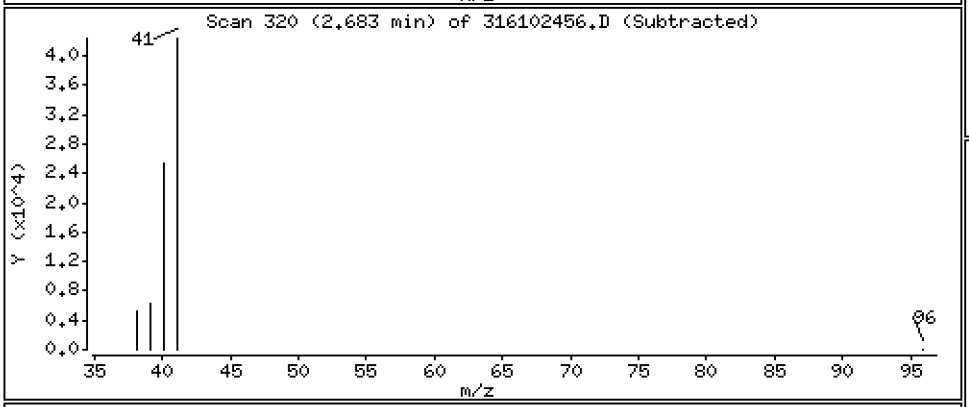
Sample Info: 1236;;1;1;3;;;

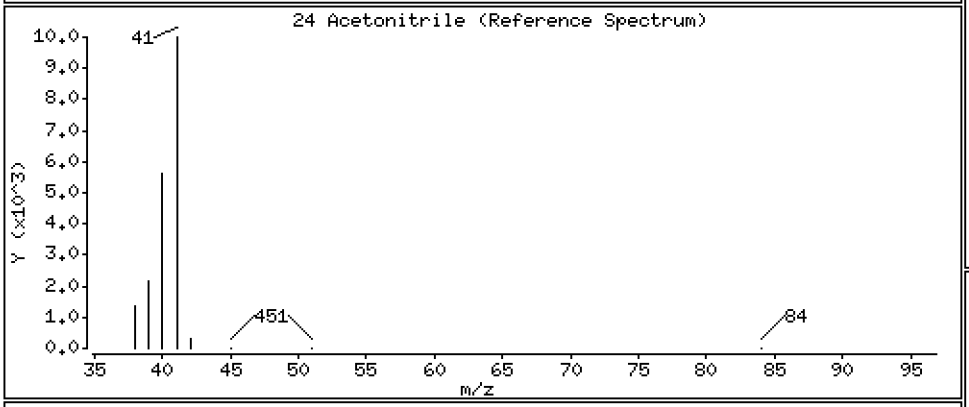
Purge Volume: 5.0 Operator: CJG

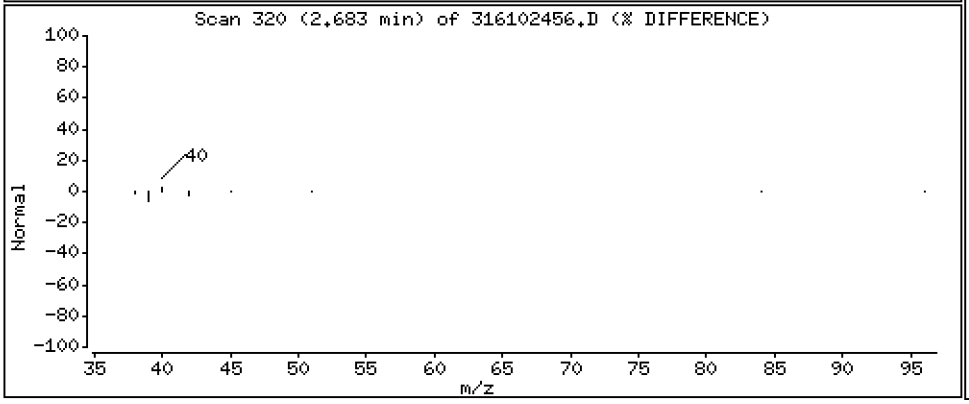
Column phase: DB-VRX Column diameter: 0.25

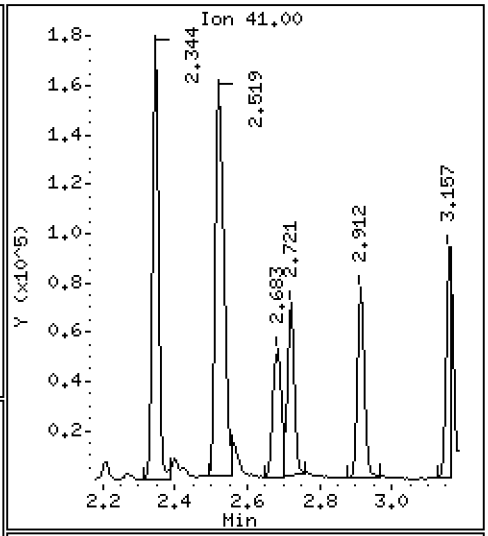
24 Acetonitrile Concentration: 98.5591 ug/L

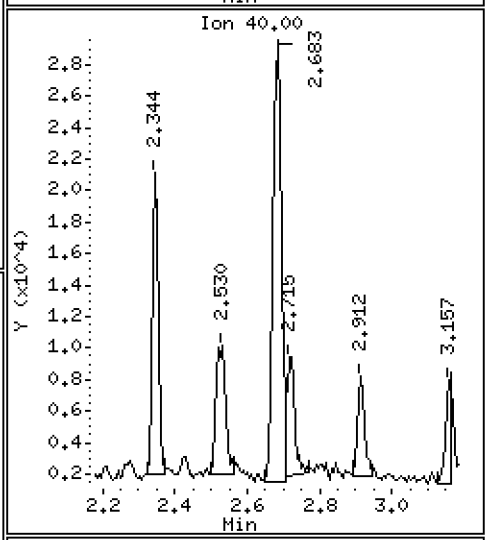


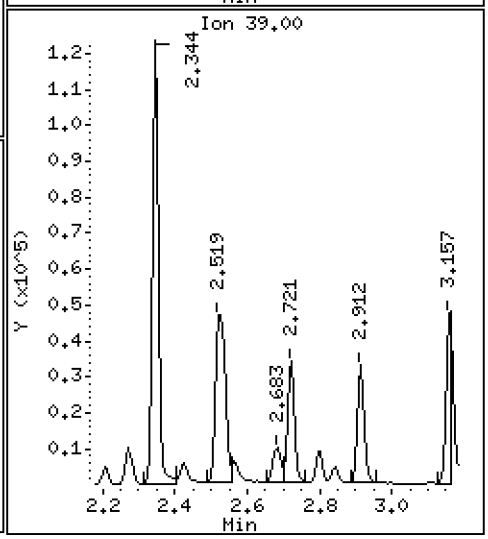












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 33

Date : 25-OCT-2016 00:30

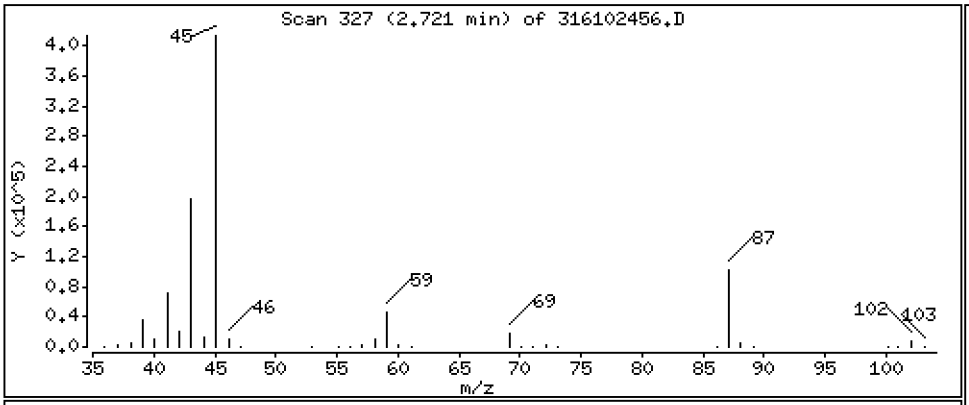
Client ID: Instrument: ms03.i

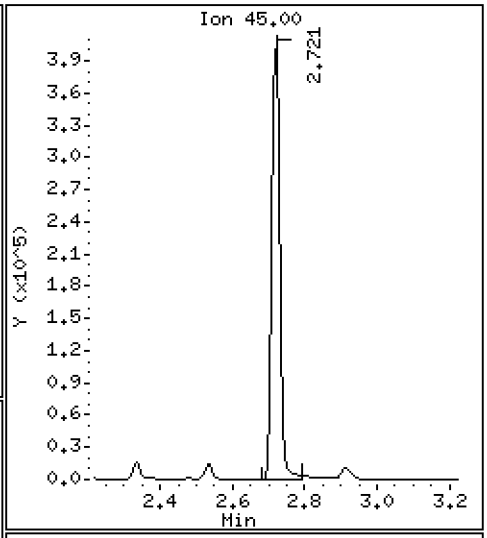
Sample Info: 1236;;1;1;3;;;

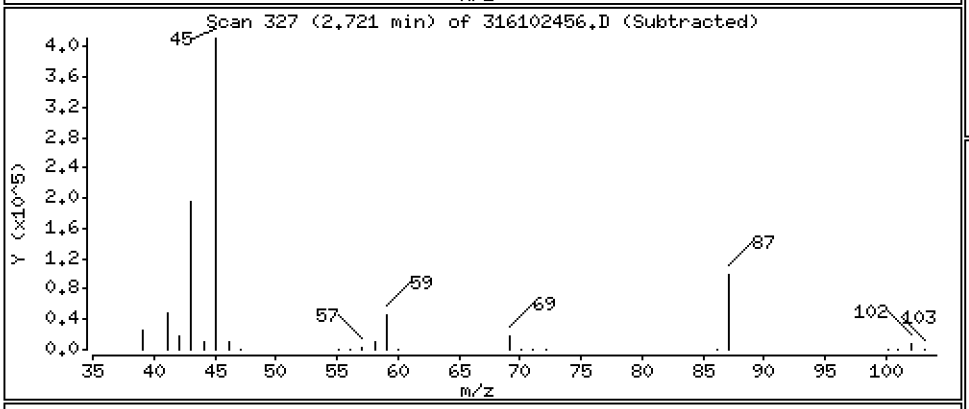
Purge Volume: 5.0 Operator: CJG

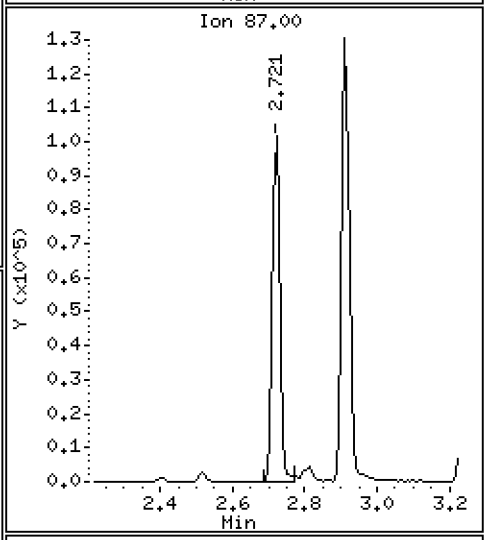
Column phase: DB-VRX Column diameter: 0.25

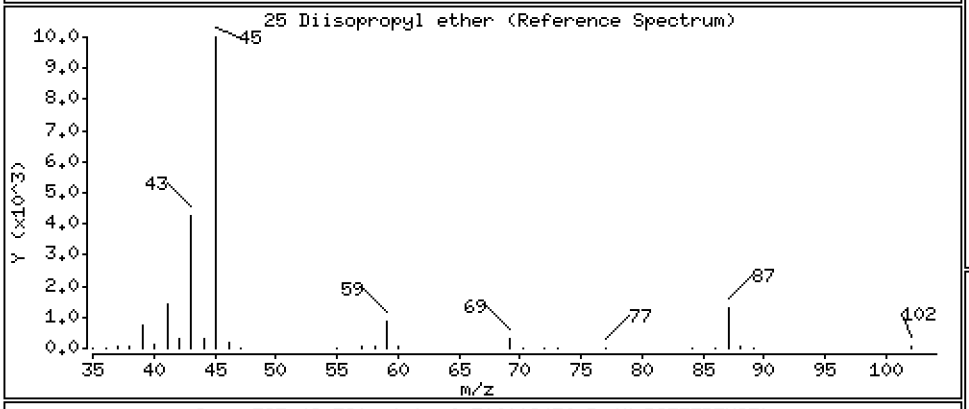
25 Diisopropyl ether Concentration: 19.0405 ug/L

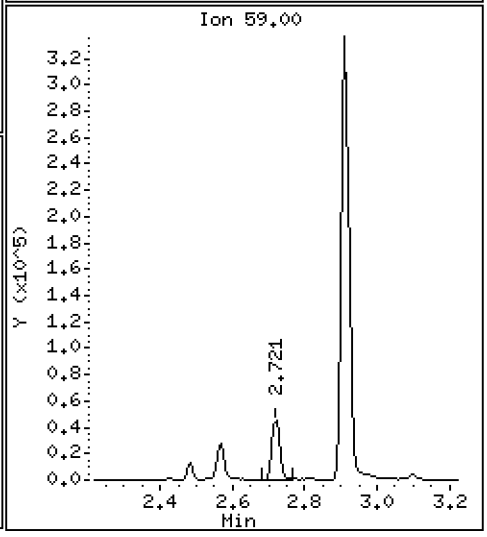


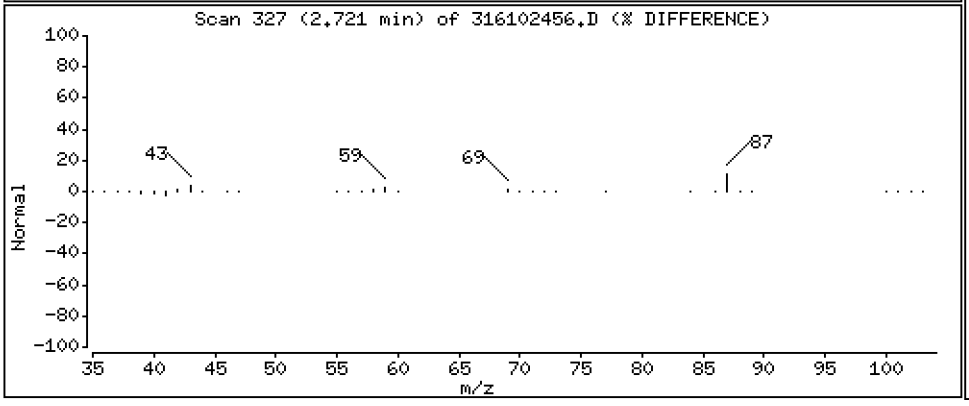












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 34

Date : 25-OCT-2016 00:30

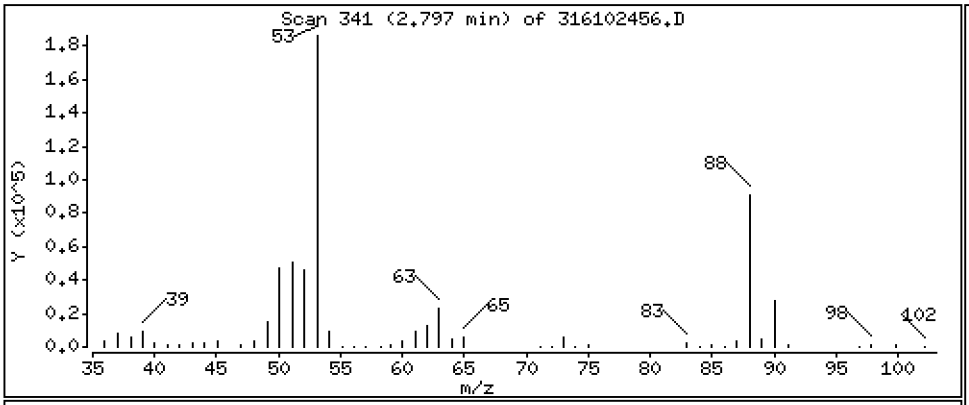
Client ID: Instrument: ms03.i

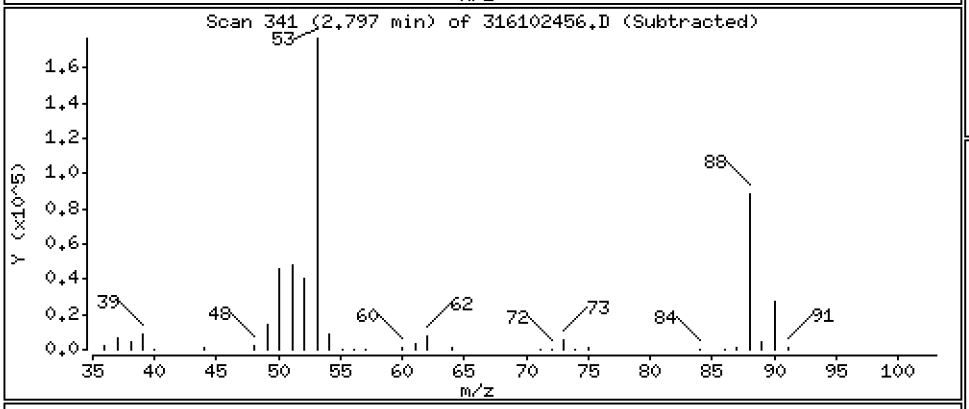
Sample Info: 1236;;1;1;3;;;

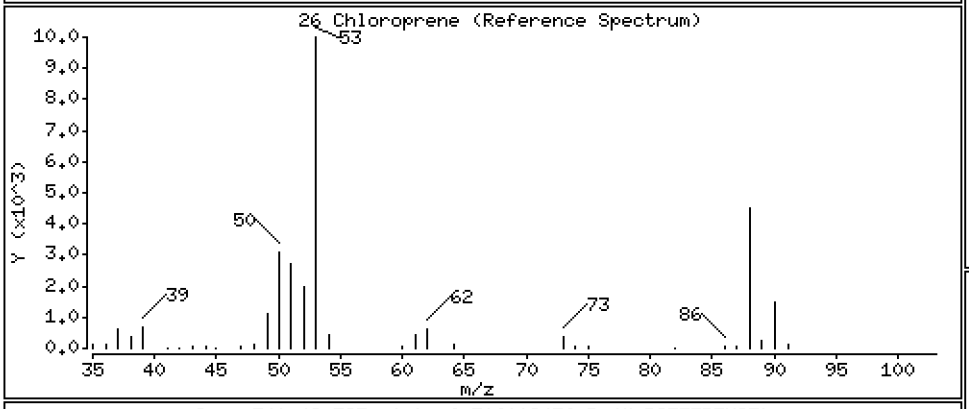
Purge Volume: 5.0 Operator: CJG

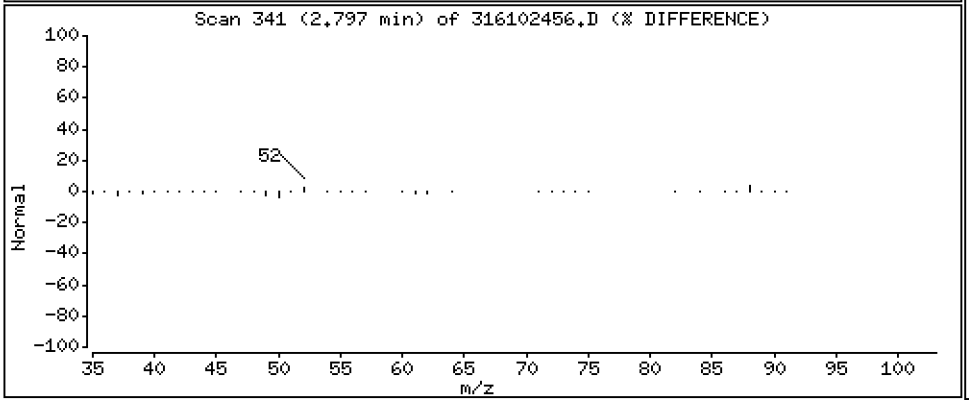
Column phase: DB-VRX Column diameter: 0.25

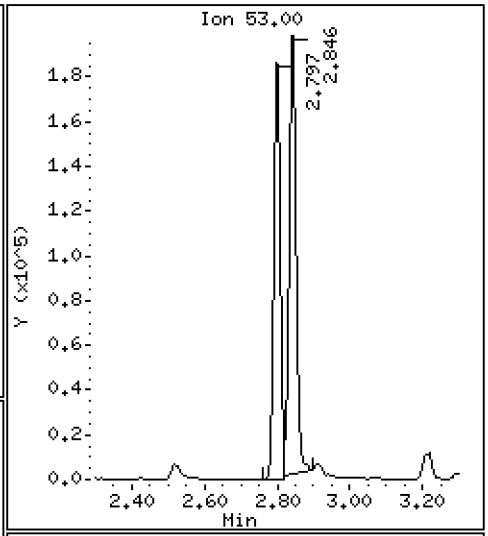
26 Chloroprene Concentration: 20.7934 ug/L

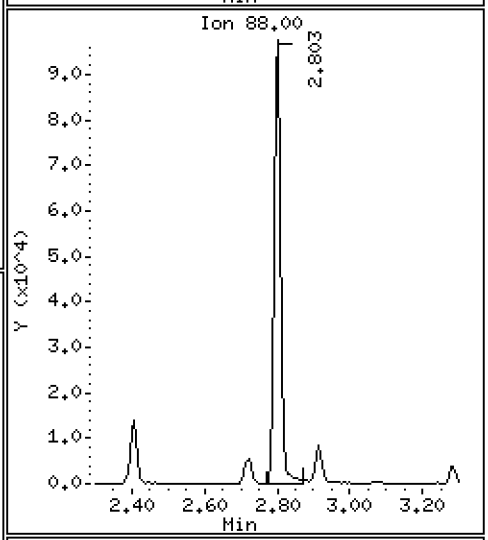


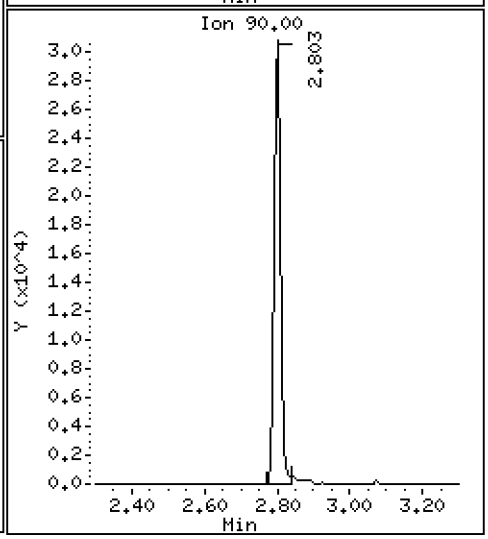












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 35

Date : 25-OCT-2016 00:30

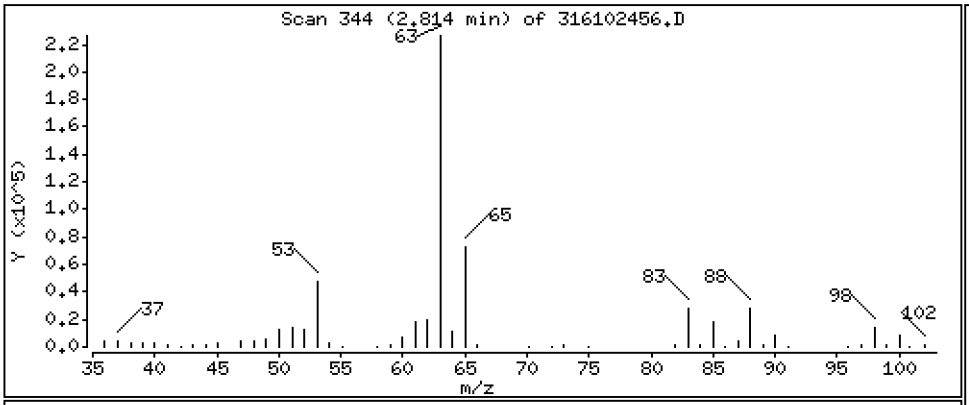
Client ID: Instrument: ms03.i

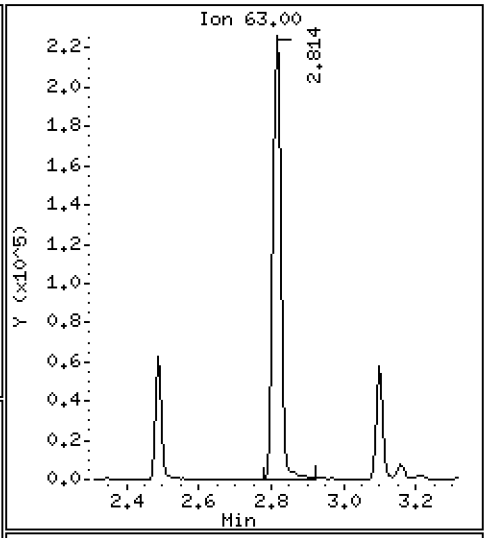
Sample Info: 1236;;1;1;3;;;

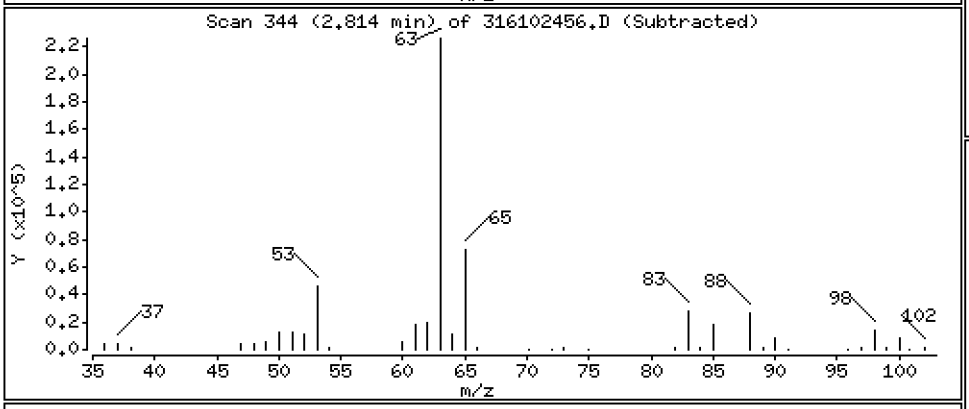
Purge Volume: 5.0 Operator: CJG

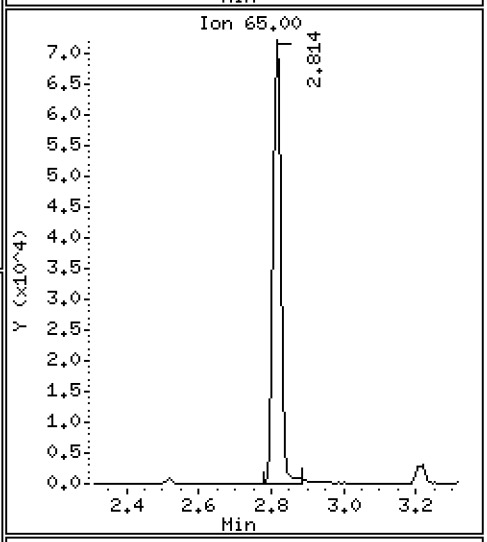
Column phase: DB-VRX Column diameter: 0.25

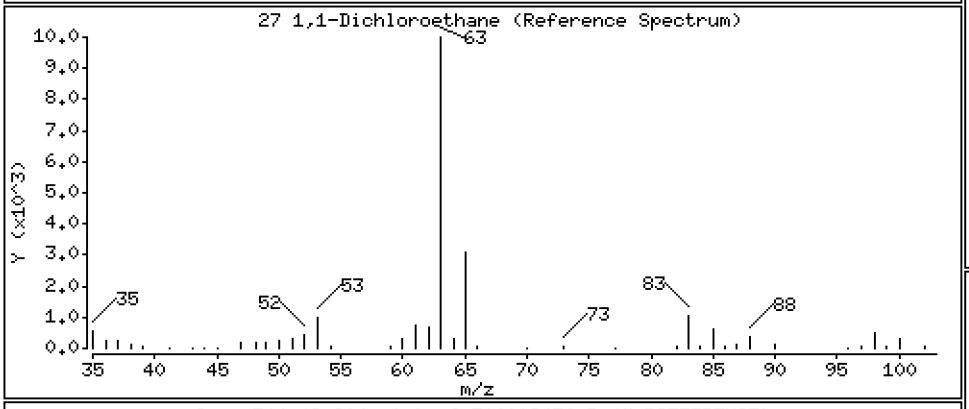
27 1,1-Dichloroethane Concentration: 20.8653 ug/L

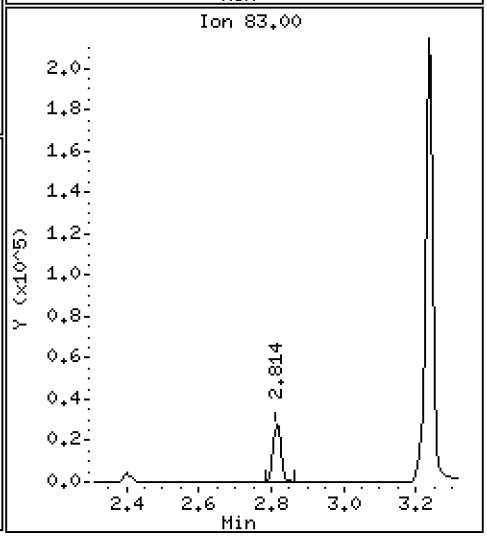


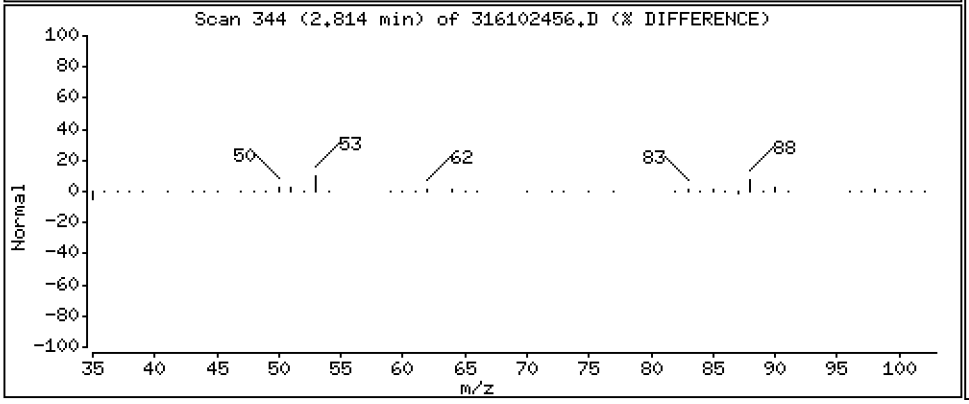












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 36

Date : 25-OCT-2016 00:30

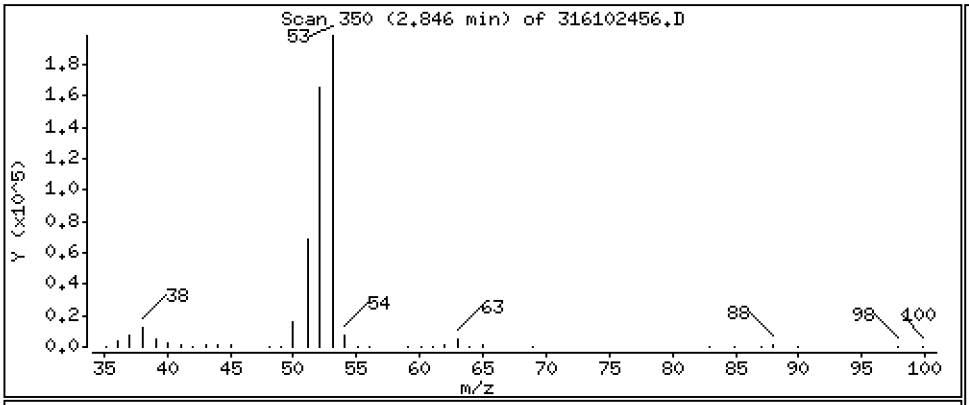
Client ID: Instrument: ms03.i

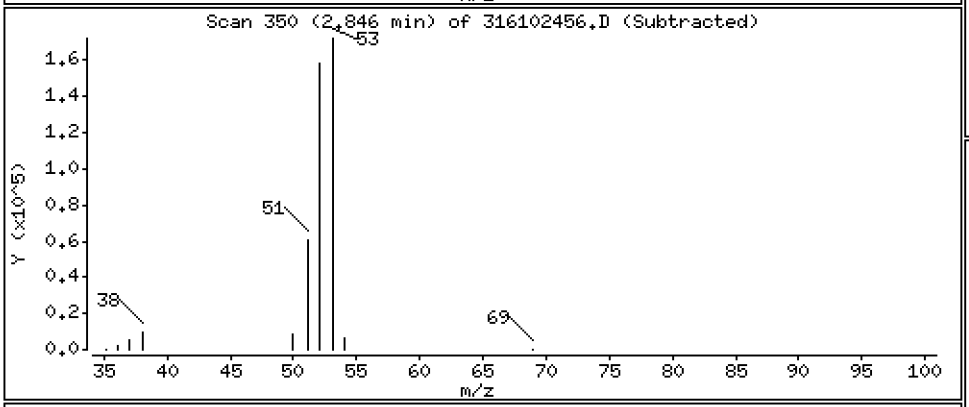
Sample Info: 1236;;1;1;3;;;

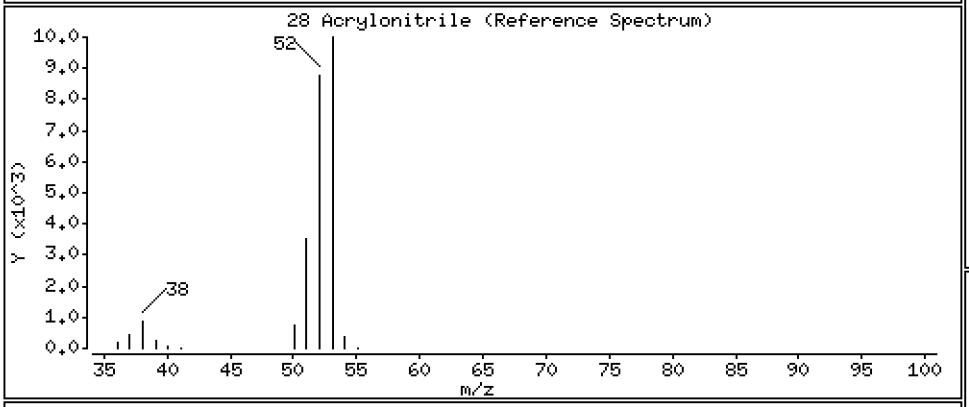
Purge Volume: 5.0 Operator: CJG

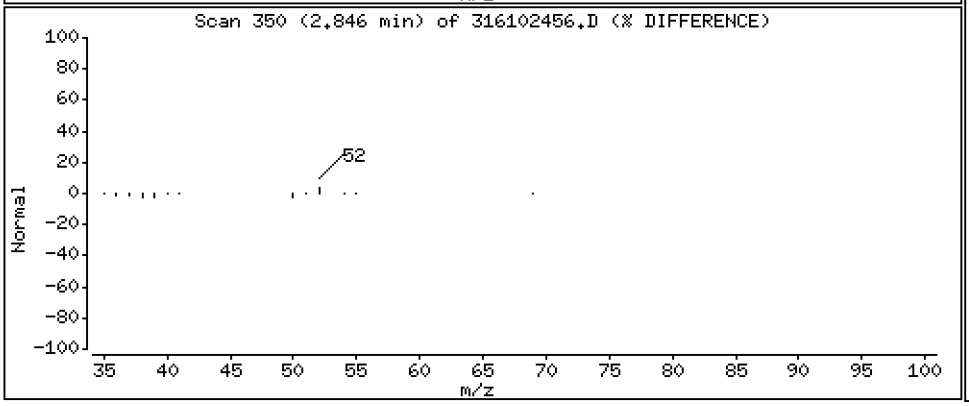
Column phase: DB-VRX Column diameter: 0.25

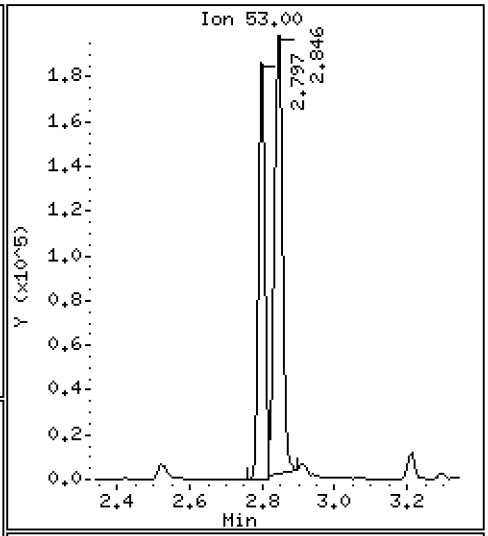
28 Acrylonitrile Concentration: 97.1648 ug/L

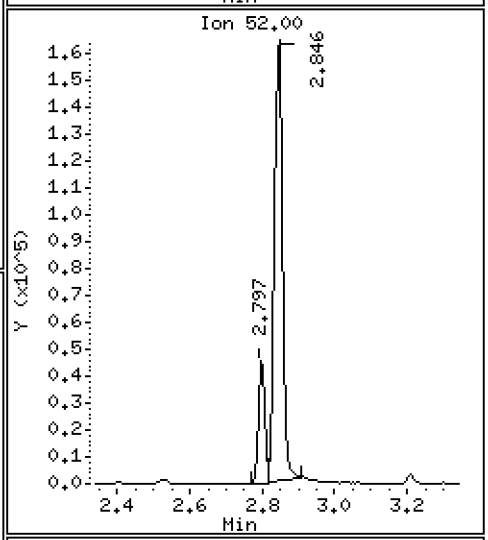


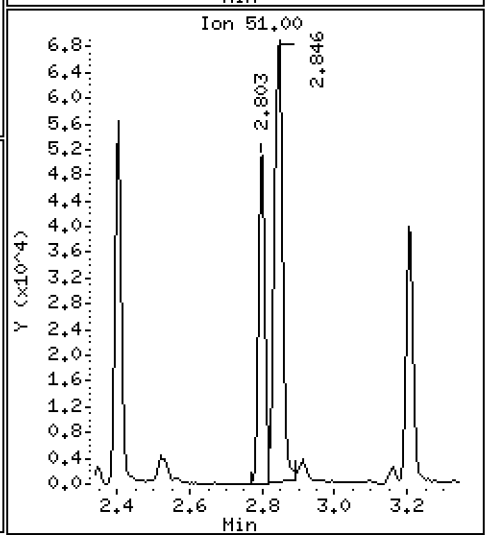












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 37

Date : 25-OCT-2016 00:30

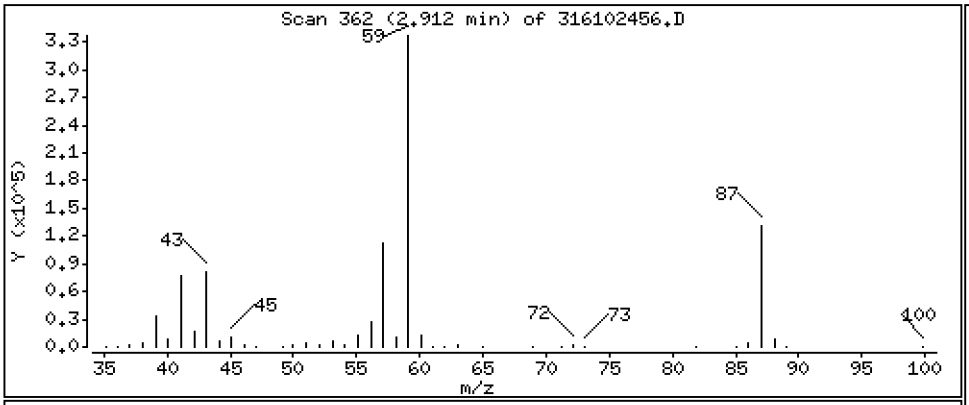
Client ID: Instrument: ms03.i

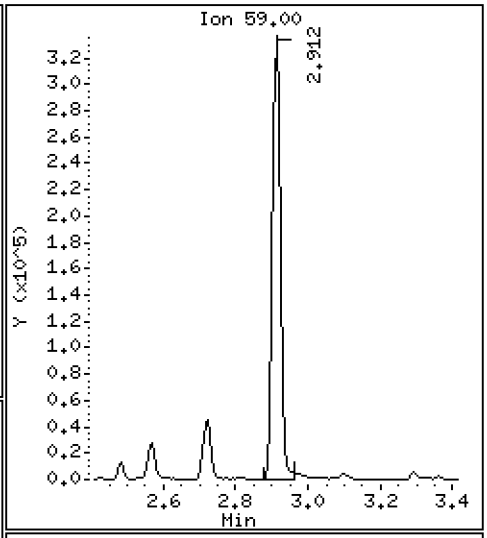
Sample Info: 1236;;1;1;3;;;

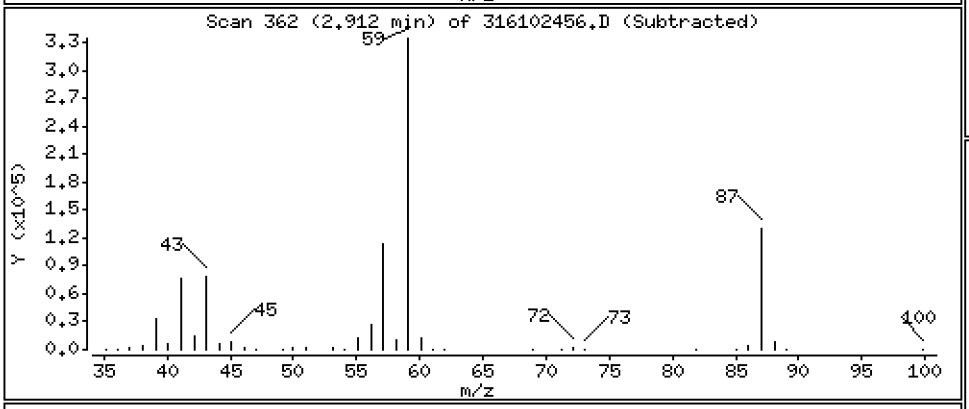
Purge Volume: 5.0 Operator: CJG

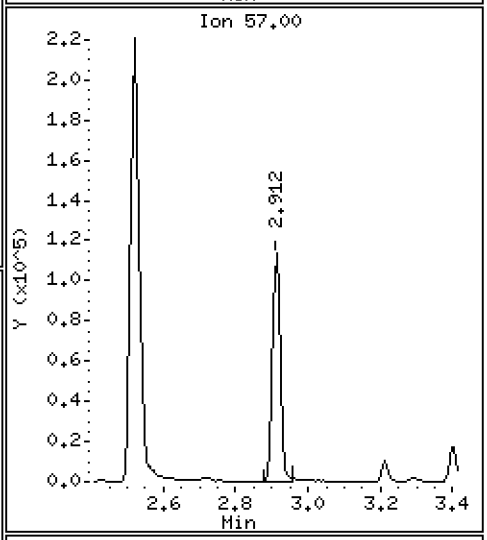
Column phase: DB-VRX Column diameter: 0.25

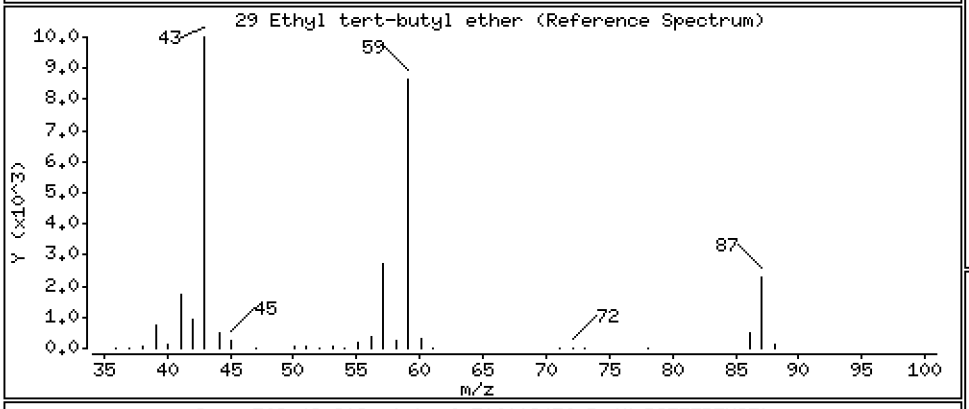
29 Ethyl tert-butyl ether Concentration: 18.6453 ug/L

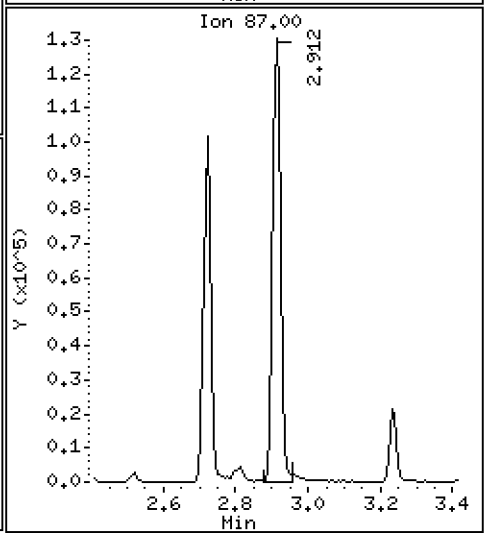


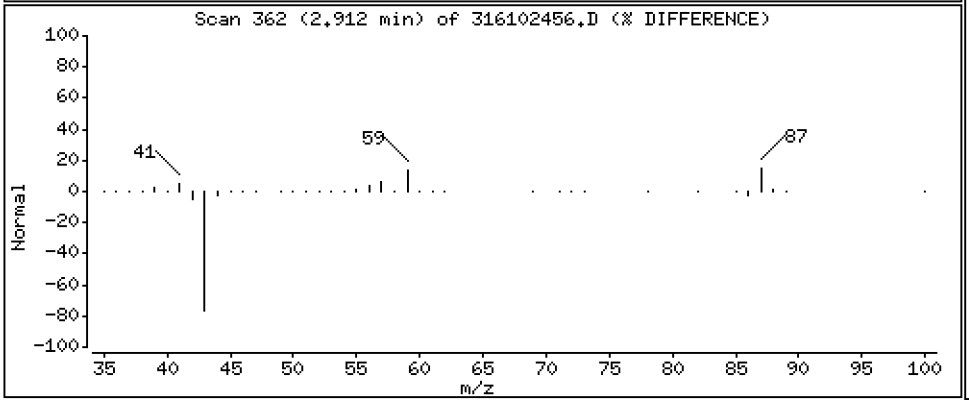












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 38

Date : 25-OCT-2016 00:30

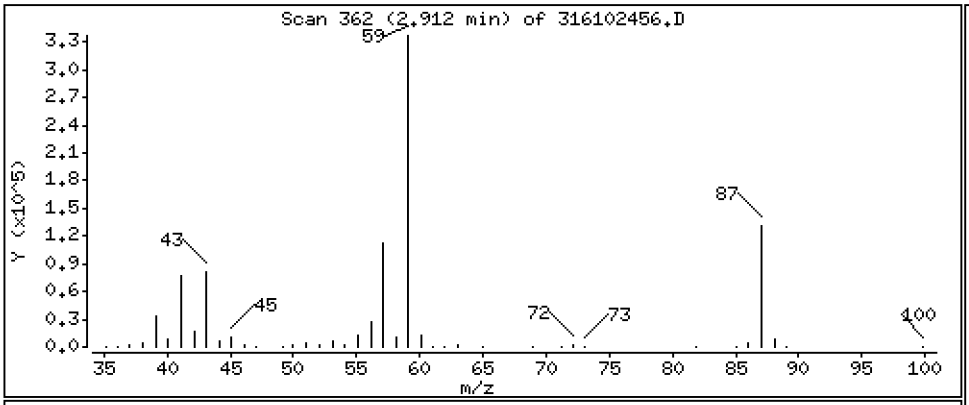
Client ID: Instrument: ms03.i

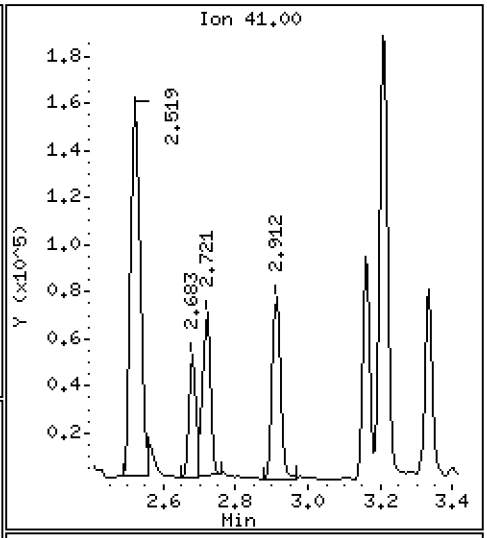
Sample Info: 1236;;1;1;3;;;

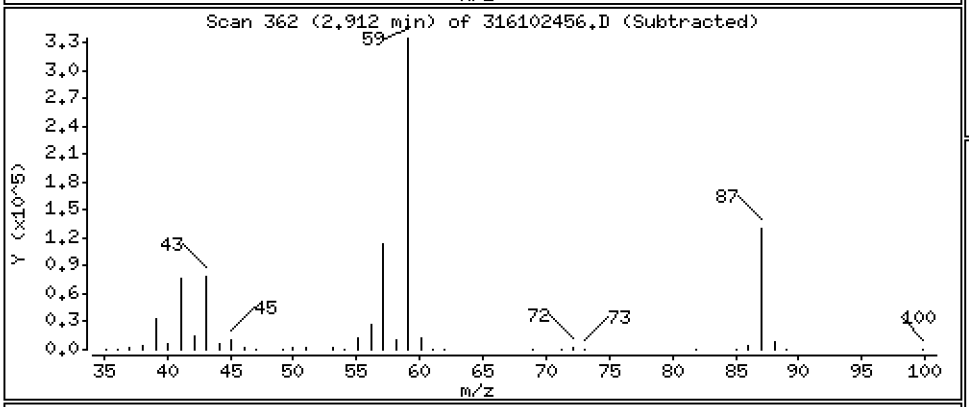
Purge Volume: 5.0 Operator: CJG

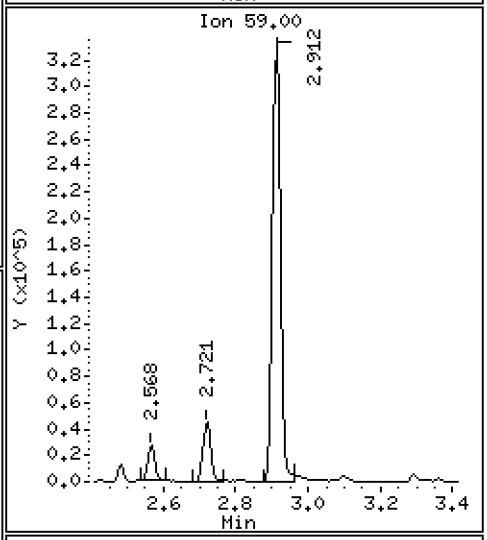
Column phase: DB-VRX Column diameter: 0.25

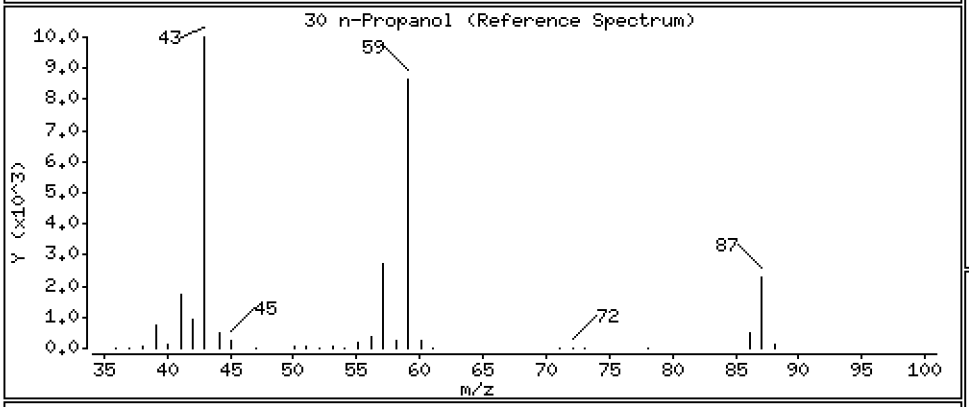
30 n-Propanol Concentration: 201.474 ug/L

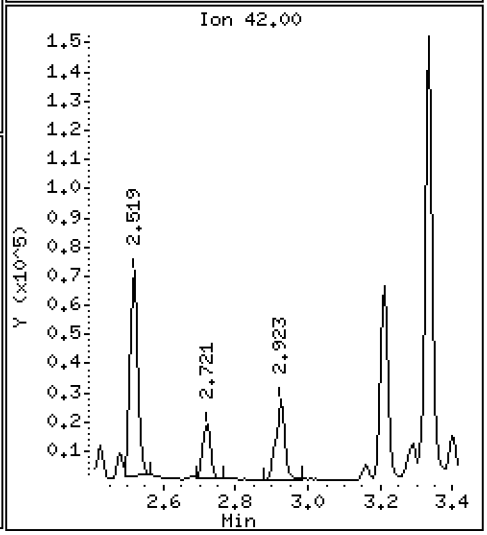


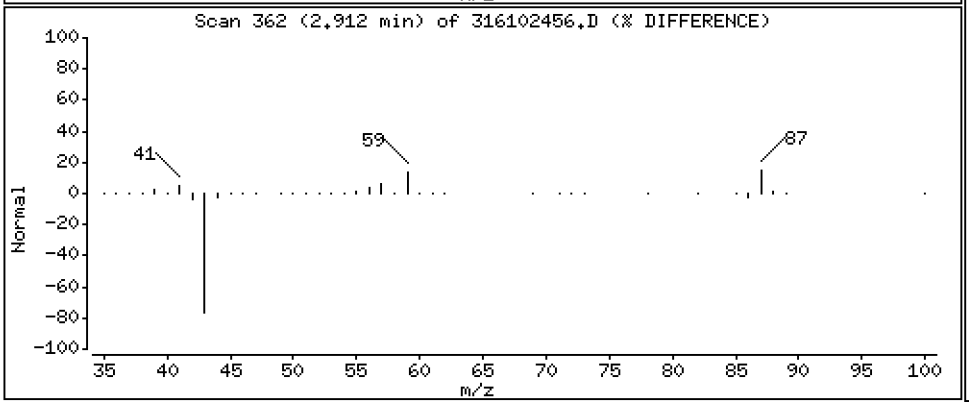












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 39

Date : 25-OCT-2016 00:30

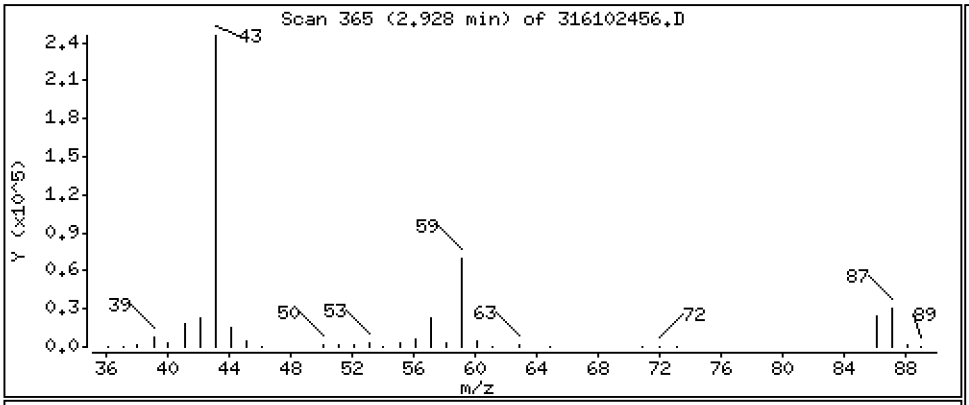
Client ID: Instrument: ms03.i

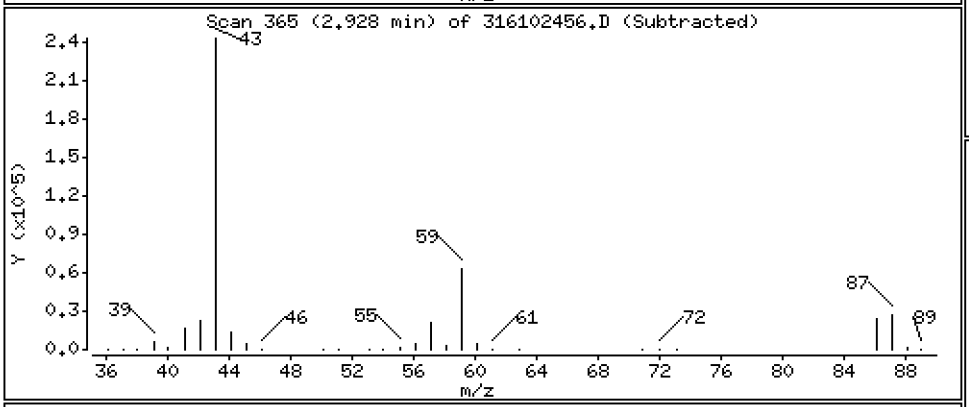
Sample Info: 1236;;1;1;3;;;

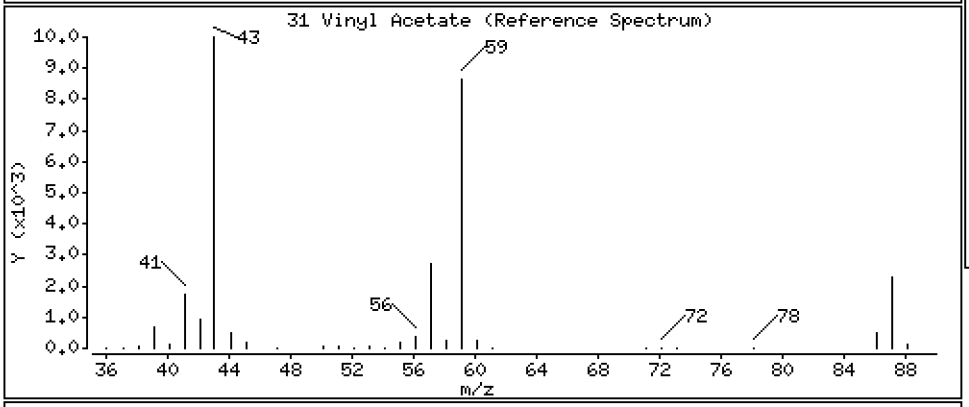
Purge Volume: 5.0 Operator: CJG

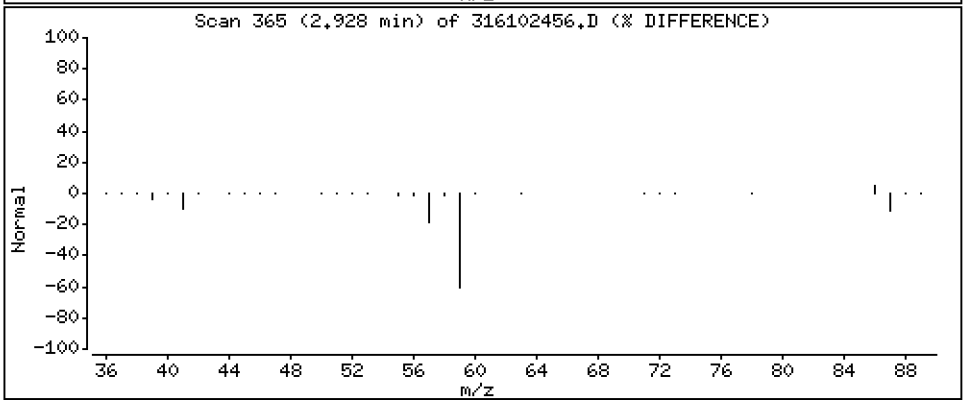
Column phase: DB-VRX Column diameter: 0.25

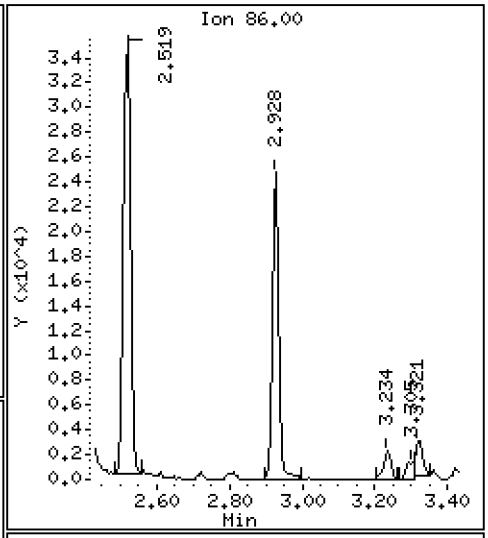
31 Vinyl Acetate Concentration: 18.5966 ug/L

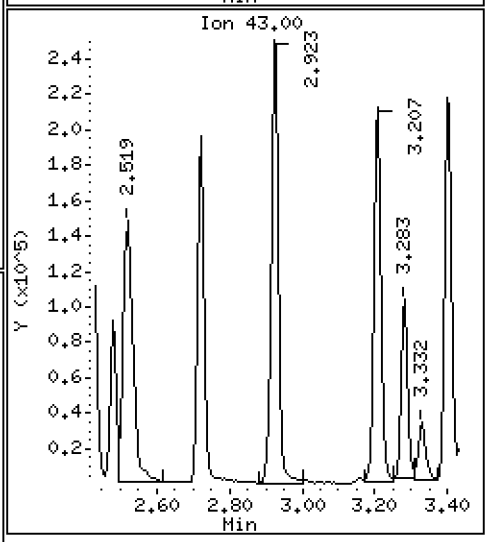












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 40

Date : 25-OCT-2016 00:30

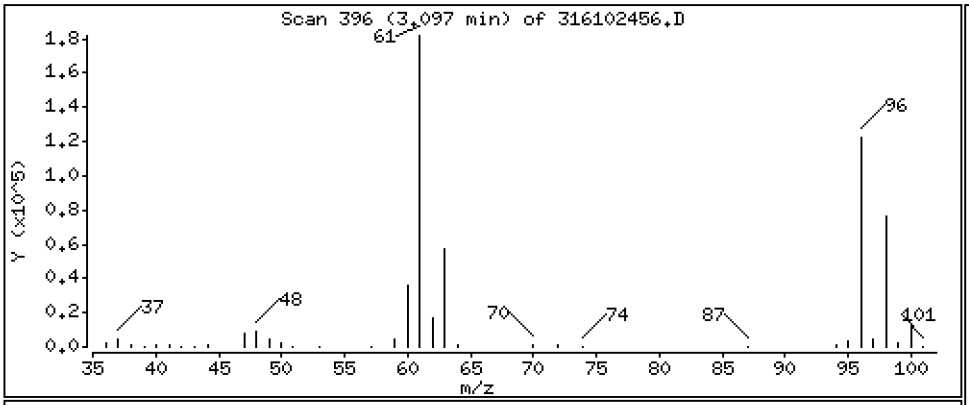
Client ID: Instrument: ms03.i

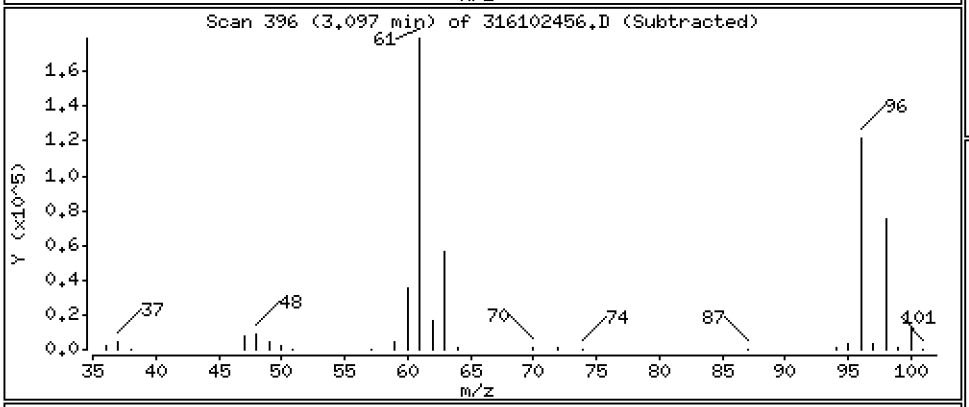
Sample Info: 1236;;1;1;3;;;

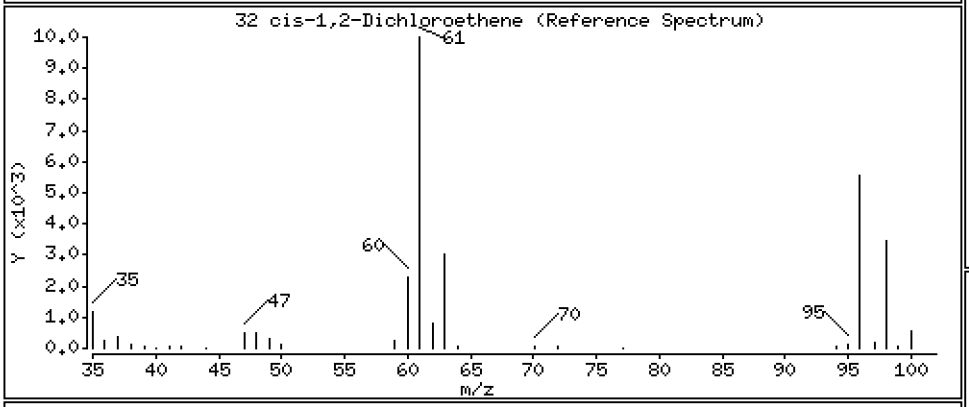
Purge Volume: 5.0 Operator: CJG

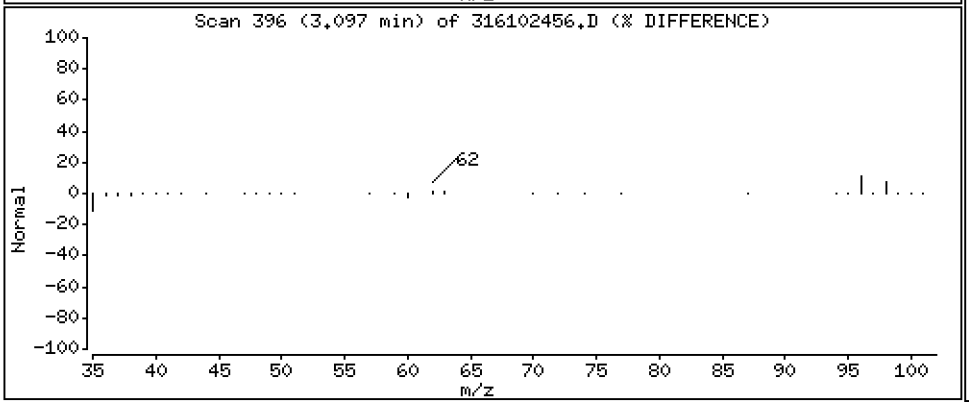
Column phase: DB-VRX Column diameter: 0.25

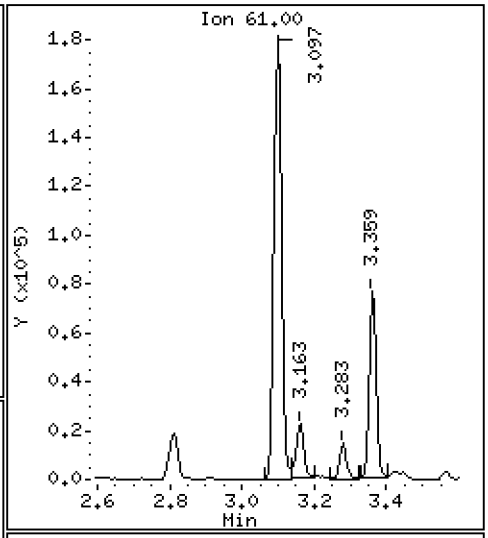
32 cis-1,2-Dichloroethene Concentration: 20.2884 ug/L

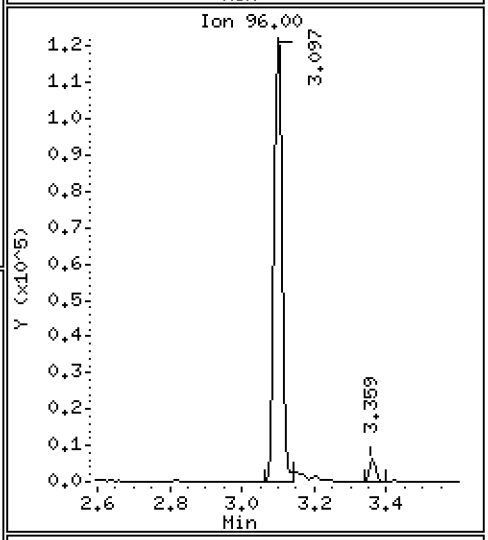


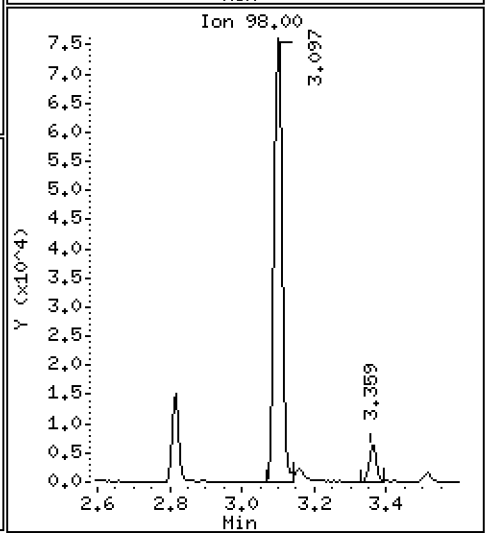












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 41

Date : 25-OCT-2016 00:30

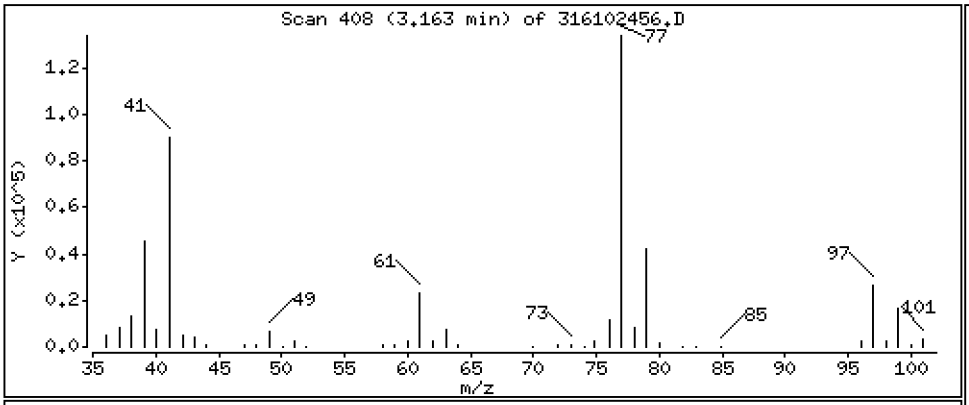
Client ID: Instrument: ms03.i

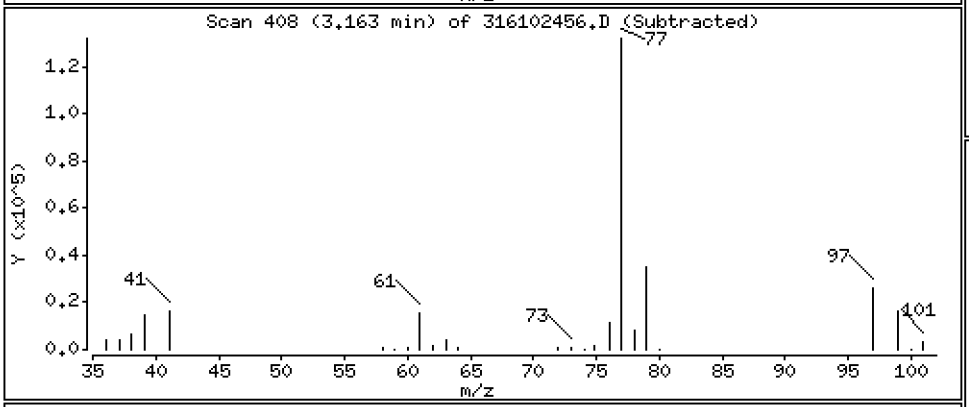
Sample Info: 1236;;1;1;3;;;

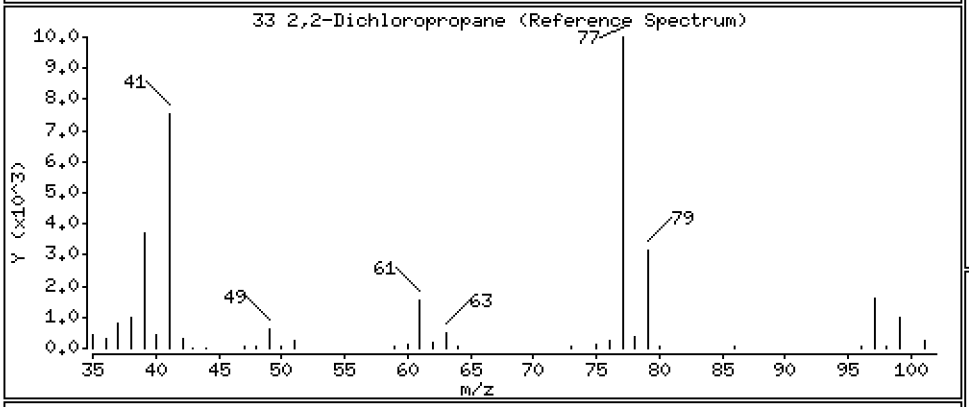
Purge Volume: 5.0 Operator: CJG

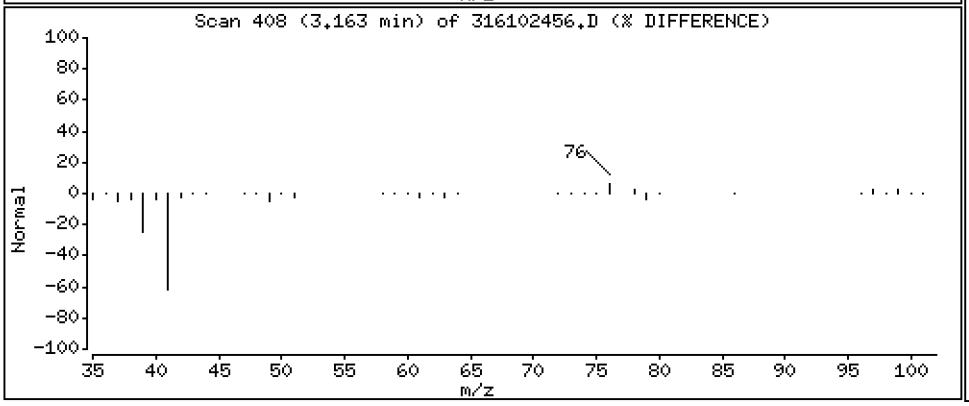
Column phase: DB-VRX Column diameter: 0.25

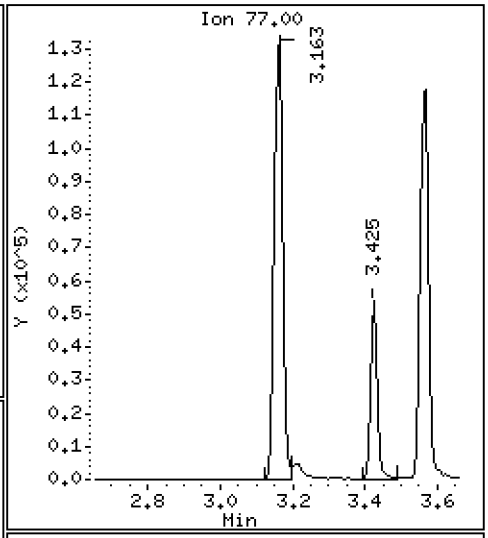
33 2,2-Dichloropropane Concentration: 20.2029 ug/L

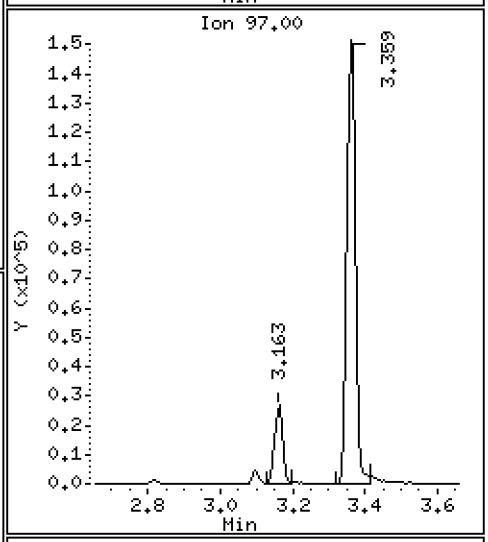


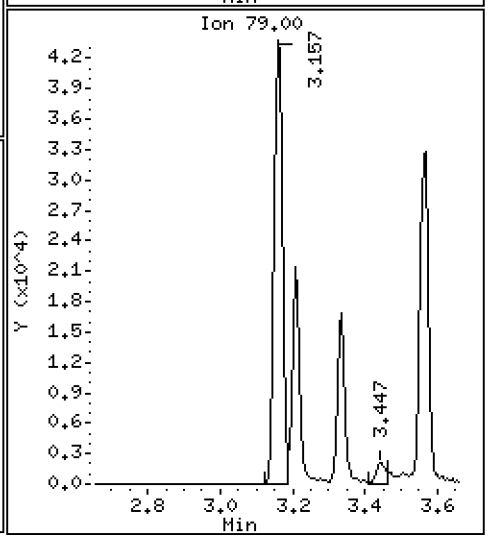












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 42

Date : 25-OCT-2016 00:30

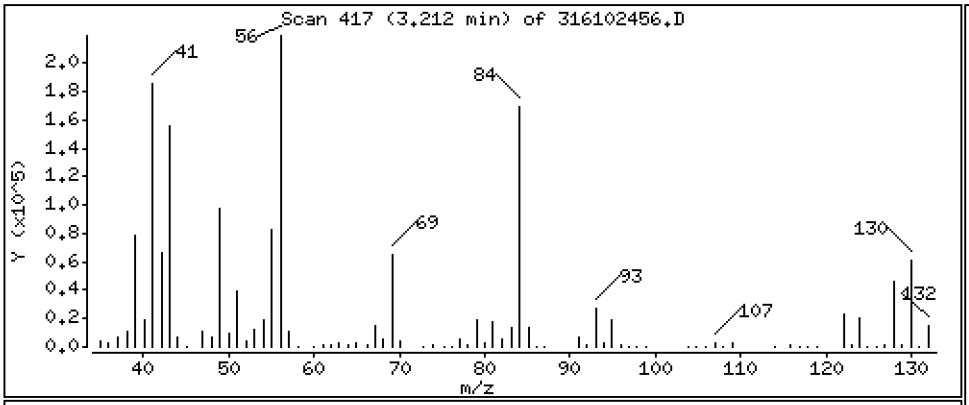
Client ID: Instrument: ms03.i

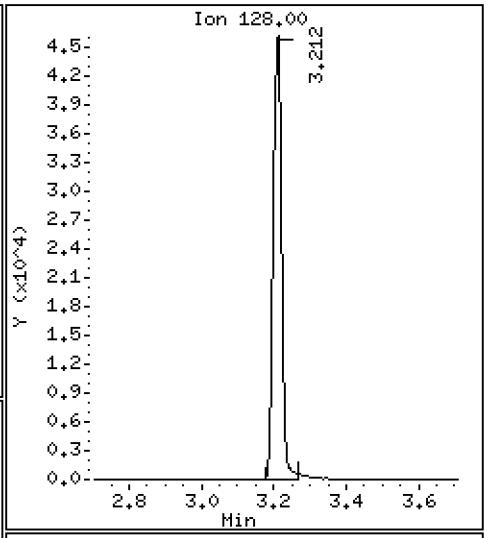
Sample Info: 1236;;1;1;3;;;

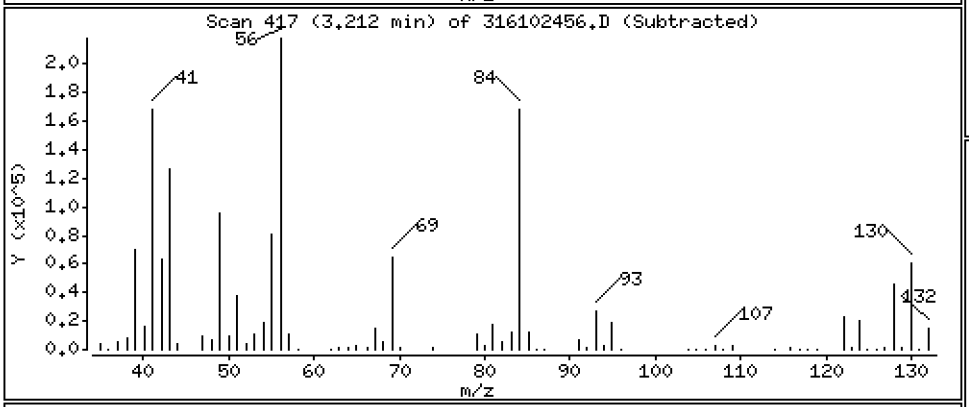
Purge Volume: 5.0 Operator: CJG

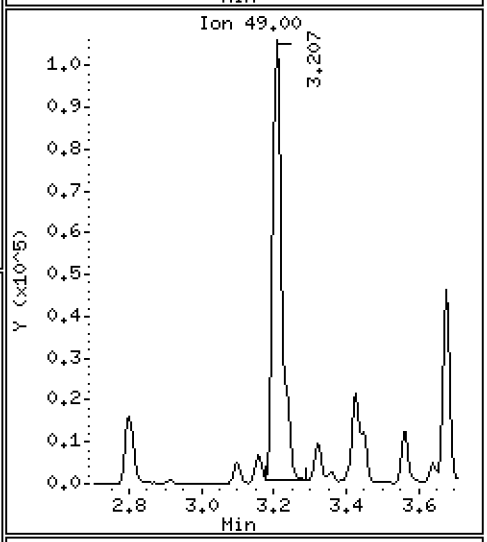
Column phase: DB-VRX Column diameter: 0.25

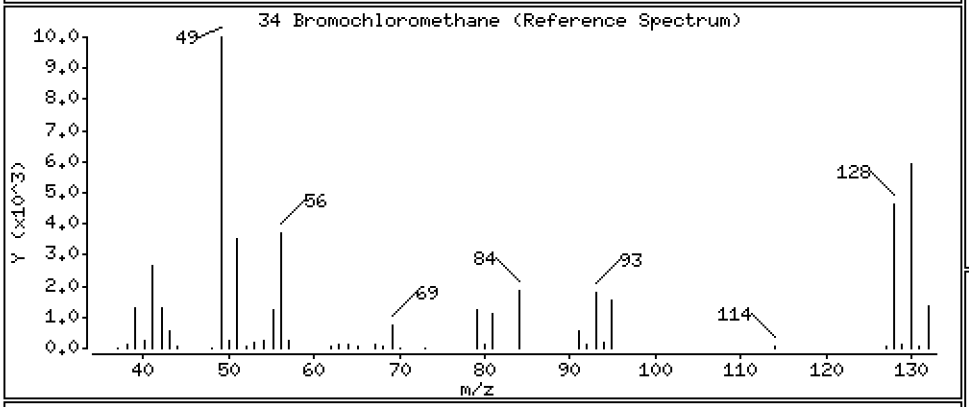
34 Bromochloromethane Concentration: 19.1182 ug/L

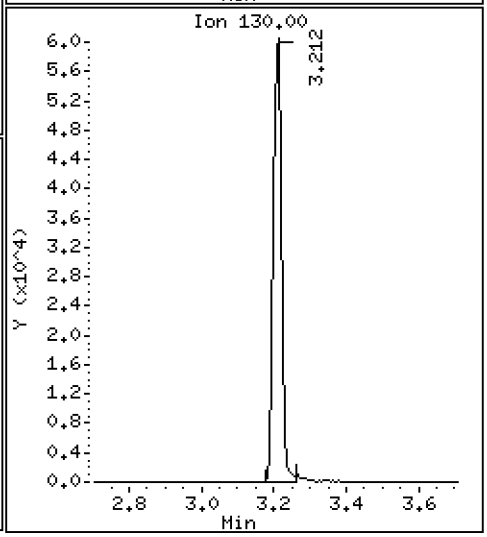


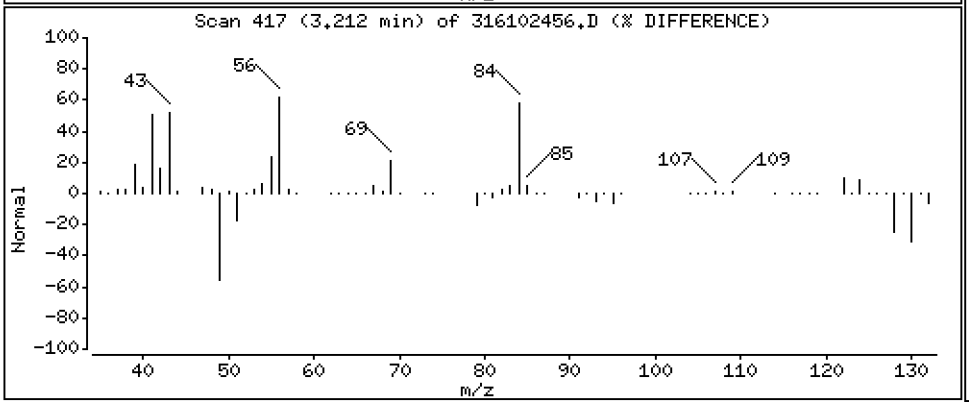












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 43

Date : 25-OCT-2016 00:30

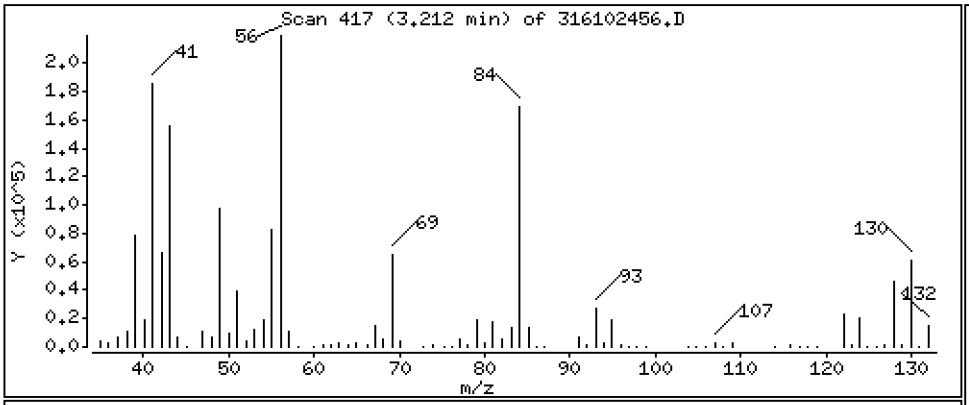
Client ID: Instrument: ms03.i

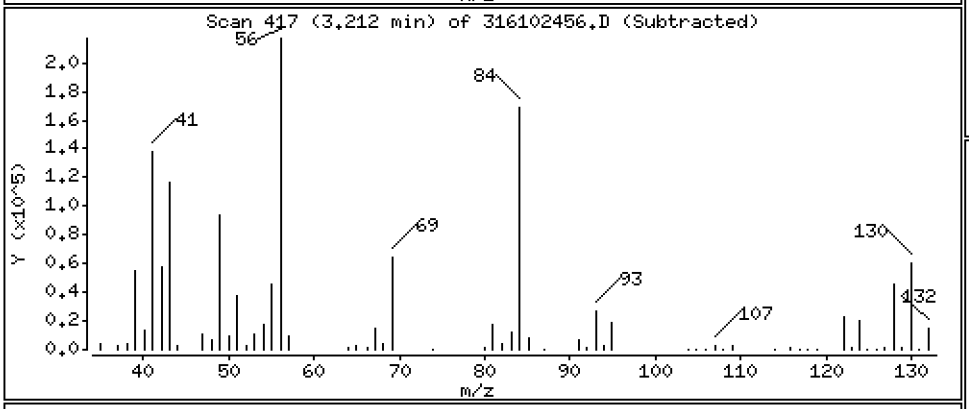
Sample Info: 1236;;1;1;3;;;

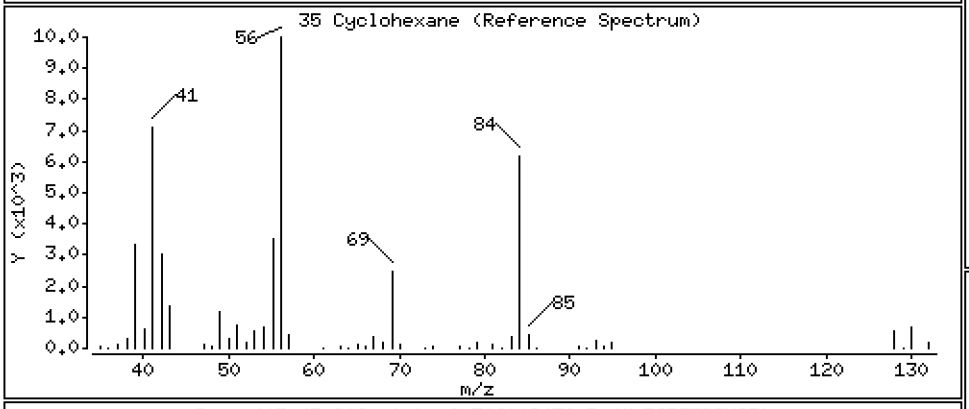
Purge Volume: 5.0 Operator: CJG

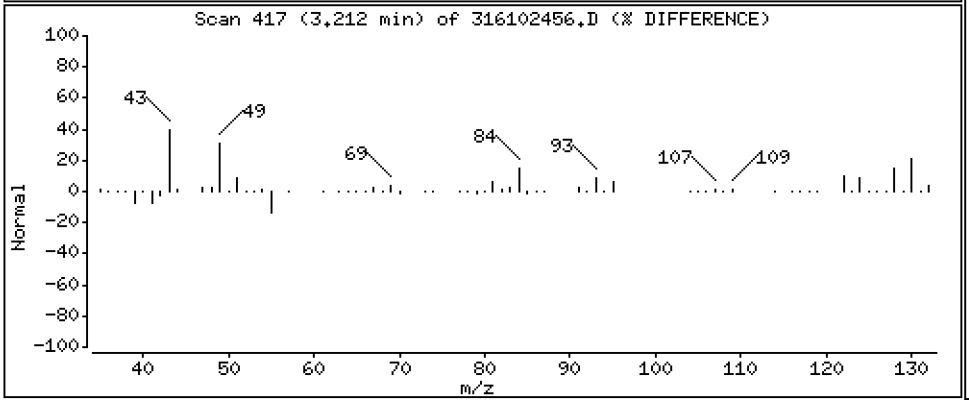
Column phase: DB-VRX Column diameter: 0.25

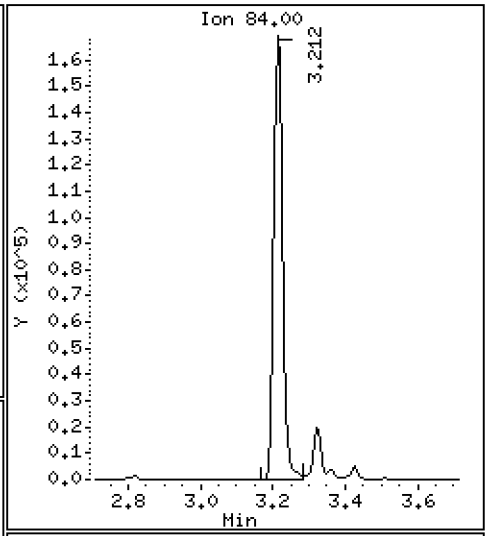
35 Cyclohexane Concentration: 22.8562 ug/L

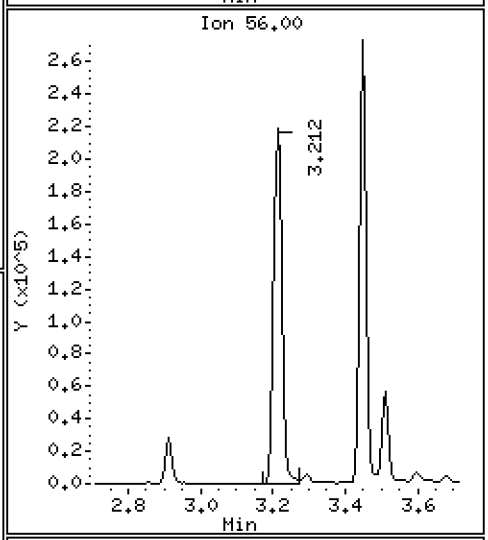


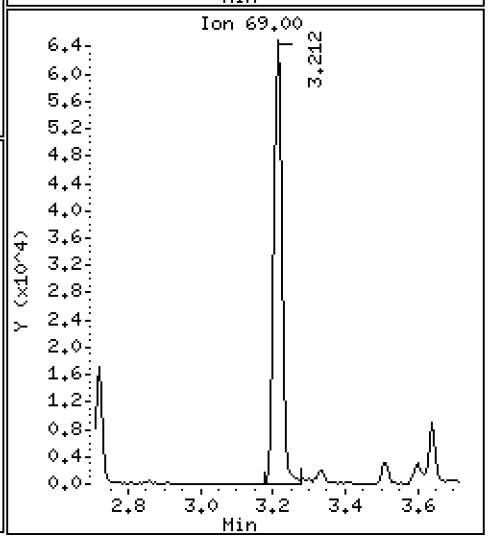












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 44

Date : 25-OCT-2016 00:30

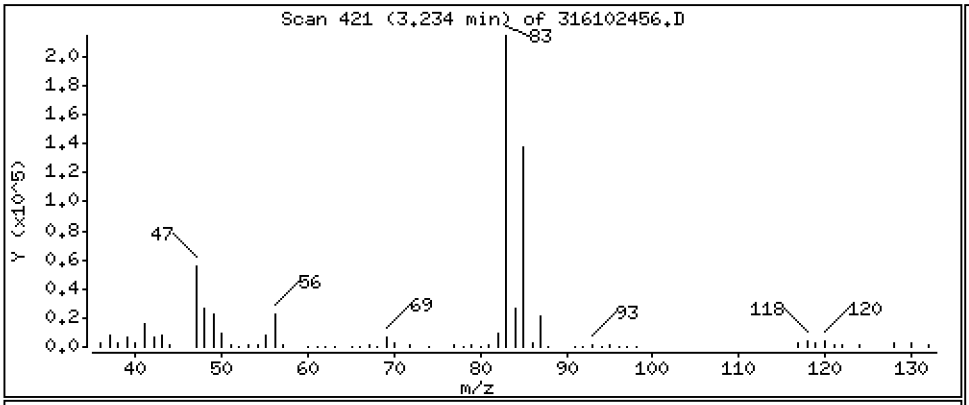
Client ID: Instrument: ms03.i

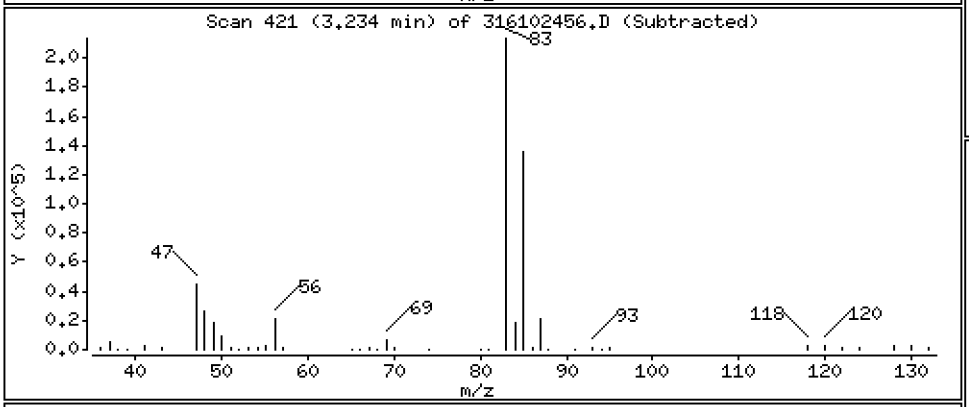
Sample Info: 1236;;1;1;3;;;

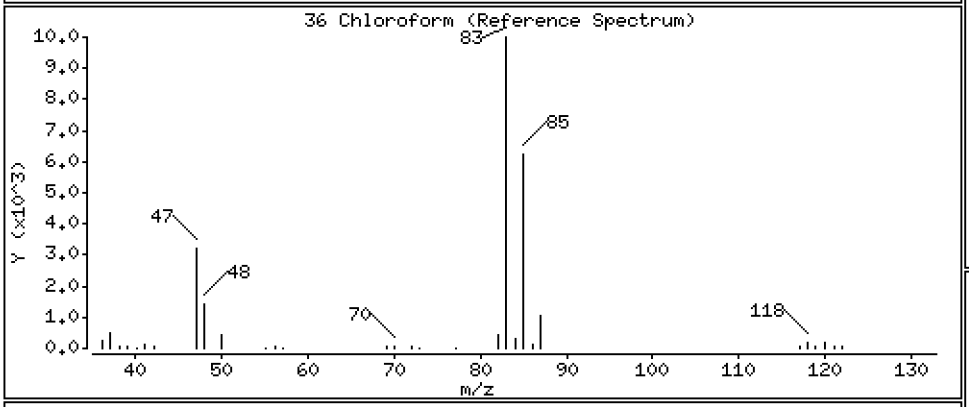
Purge Volume: 5.0 Operator: CJG

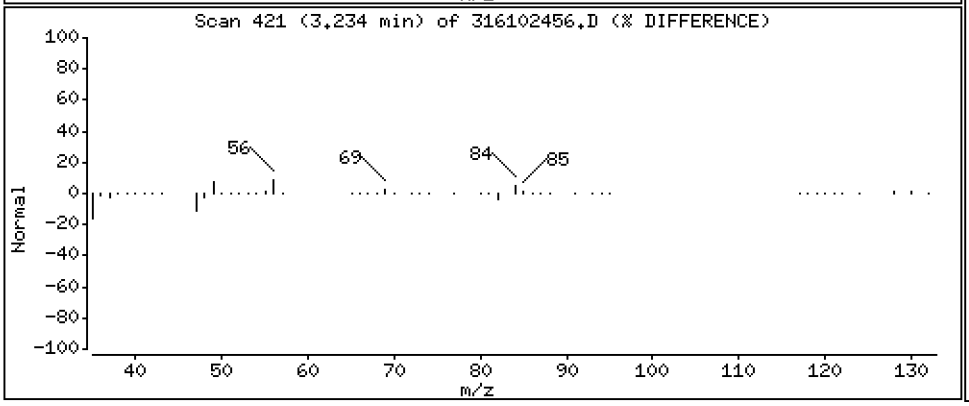
Column phase: DB-VRX Column diameter: 0.25

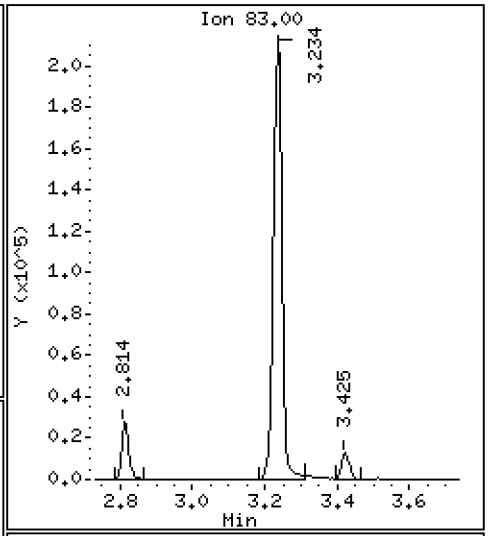
36 Chloroform Concentration: 21.1711 ug/L

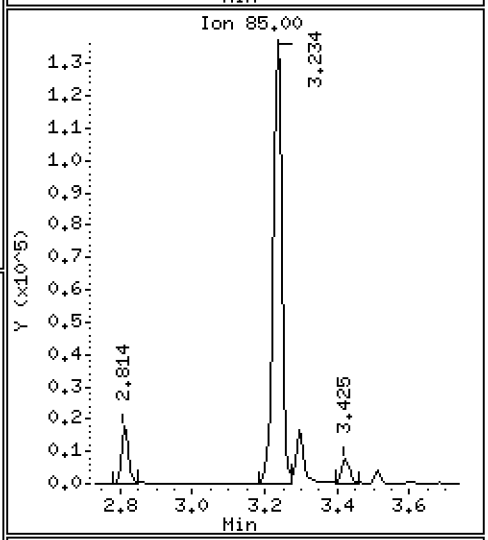


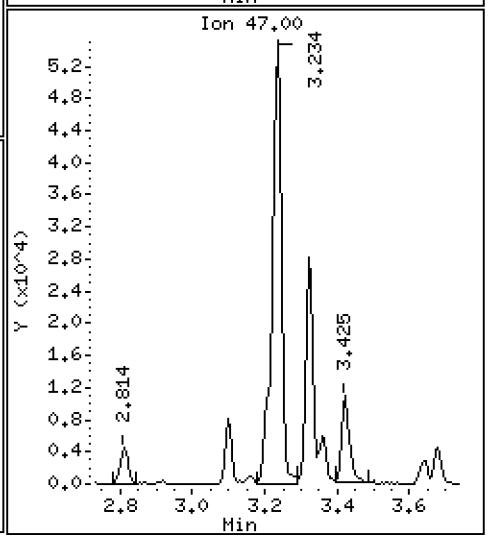












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 45

Date : 25-OCT-2016 00:30

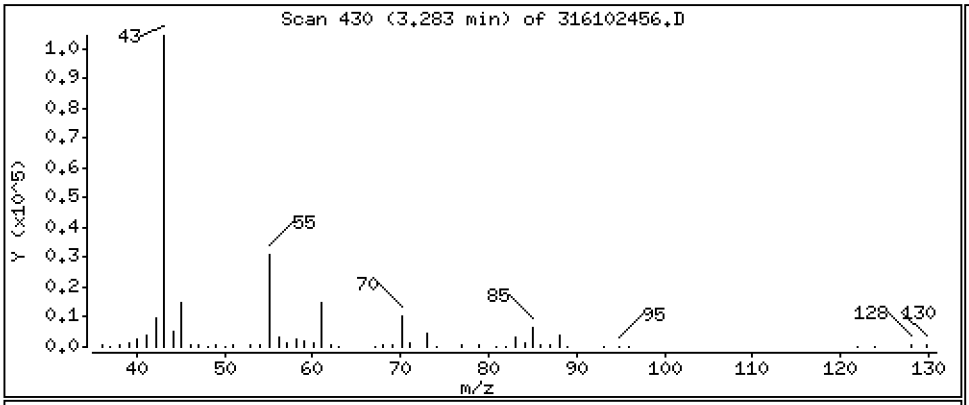
Client ID: Instrument: ms03.i

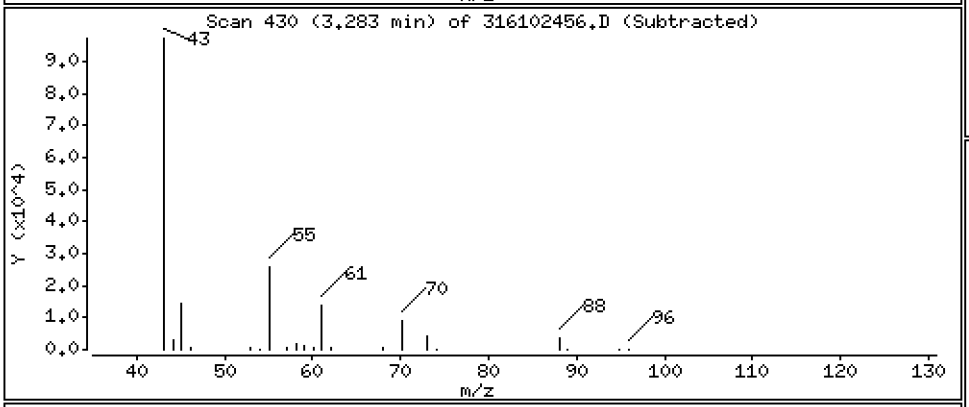
Sample Info: 1236;;1;1;3;;;

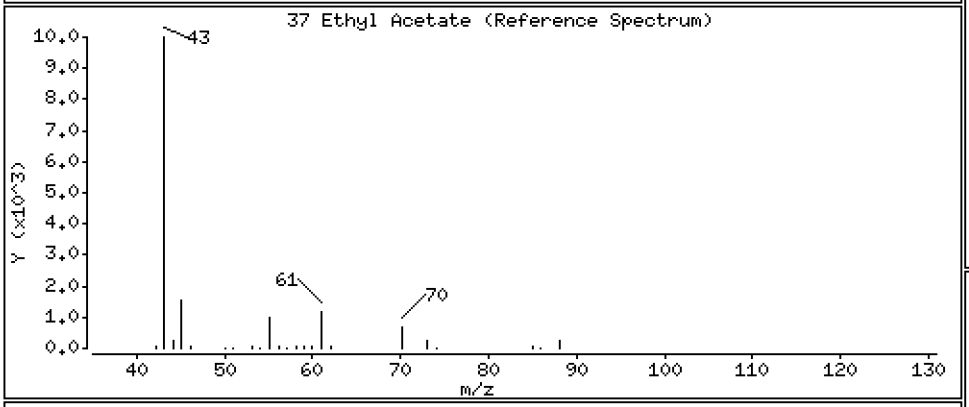
Purge Volume: 5.0 Operator: CJG

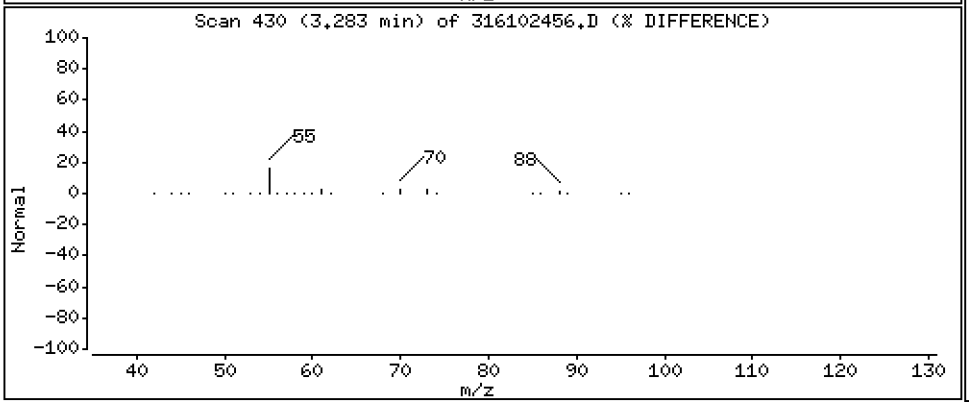
Column phase: DB-VRX Column diameter: 0.25

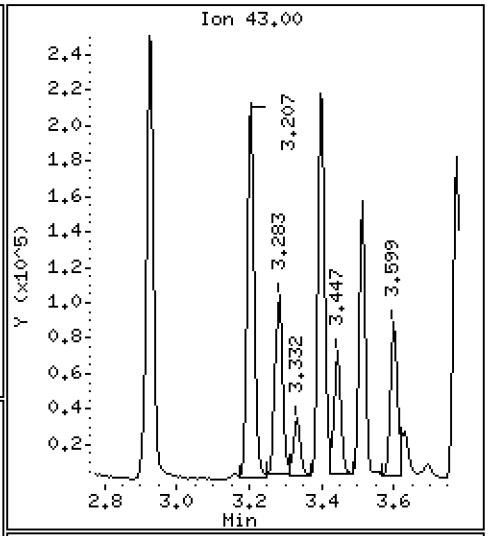
37 Ethyl Acetate Concentration: 18.3061 ug/L

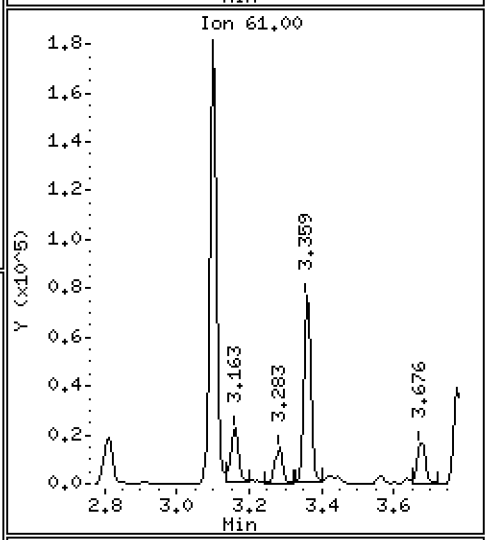


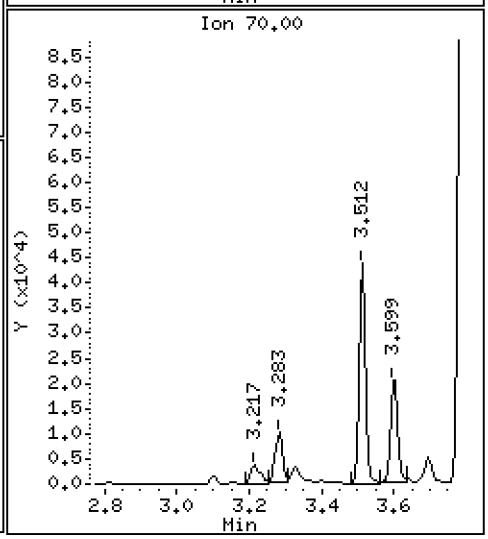












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 46

Date : 25-OCT-2016 00:30

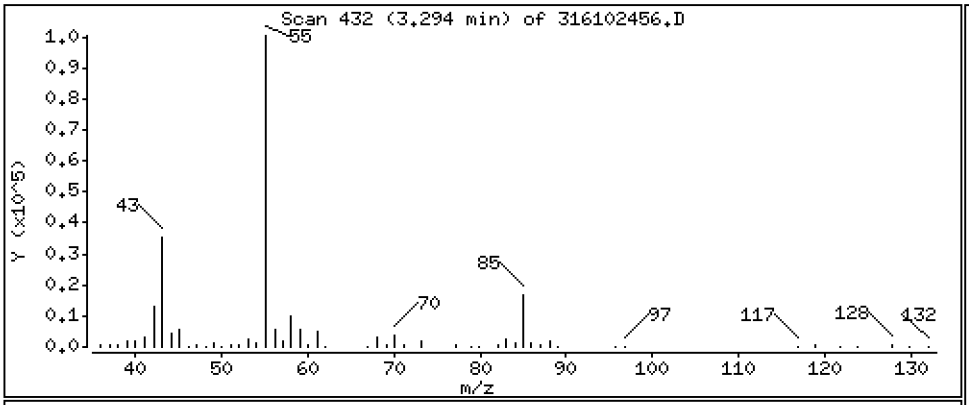
Client ID: Instrument: ms03.i

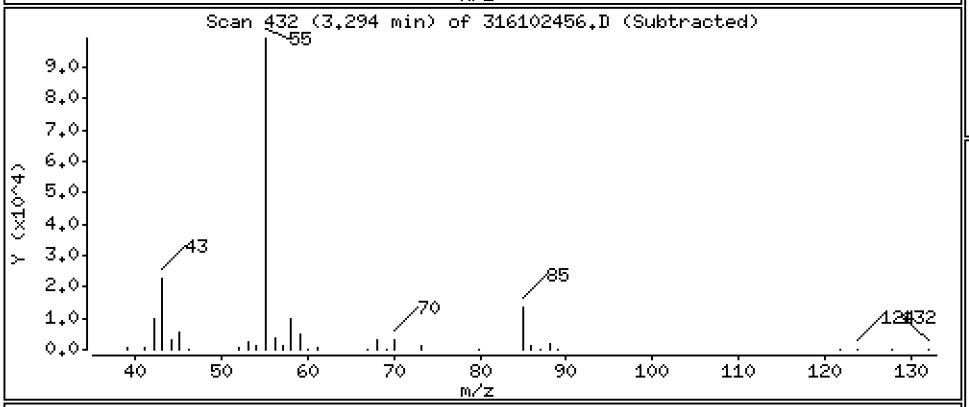
Sample Info: 1236;;1;1;3;;;

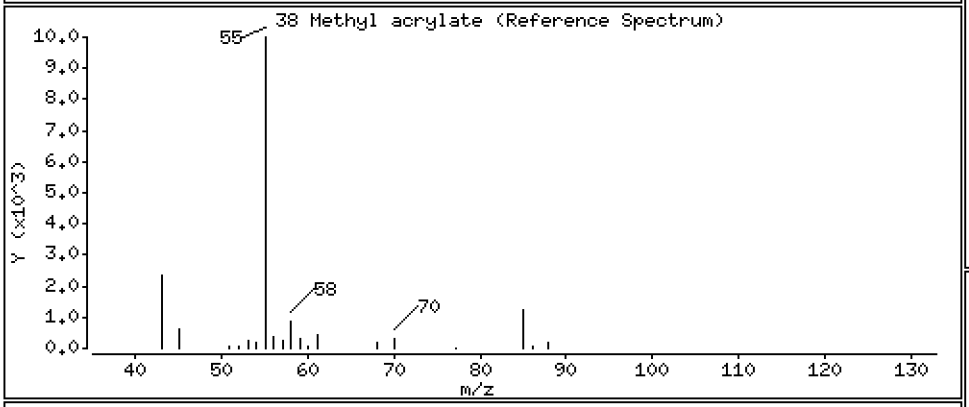
Purge Volume: 5.0 Operator: CJG

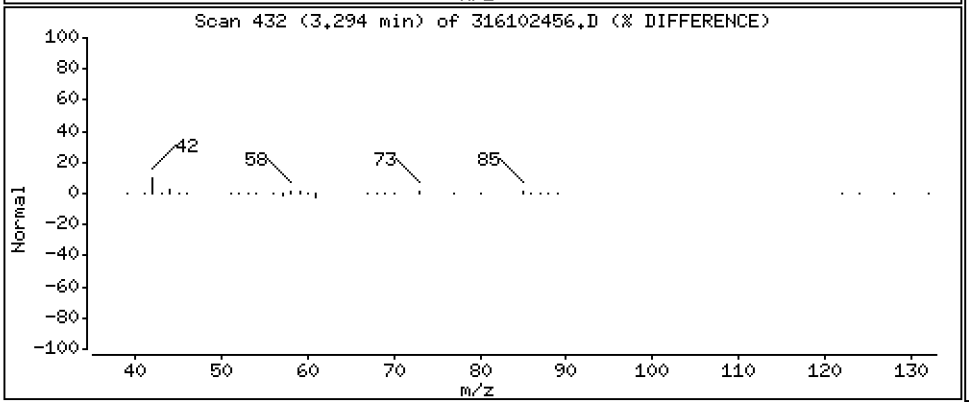
Column phase: DB-VRX Column diameter: 0.25

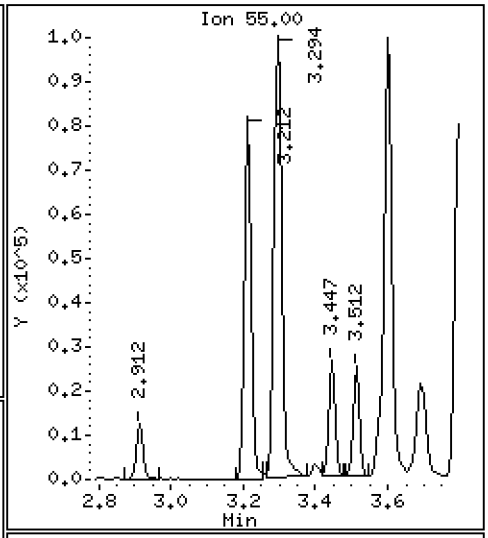
38 Methyl acrylate Concentration: 19.5381 ug/L

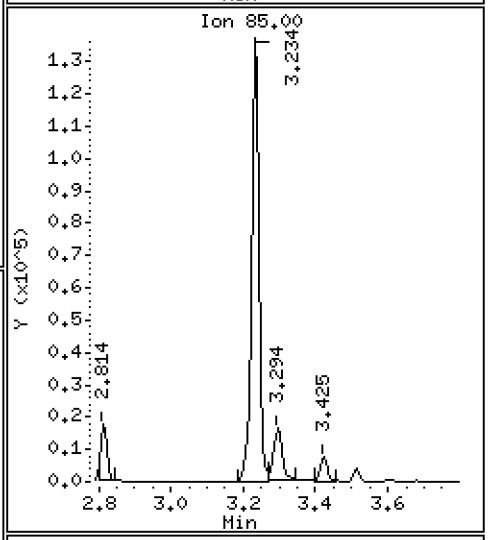


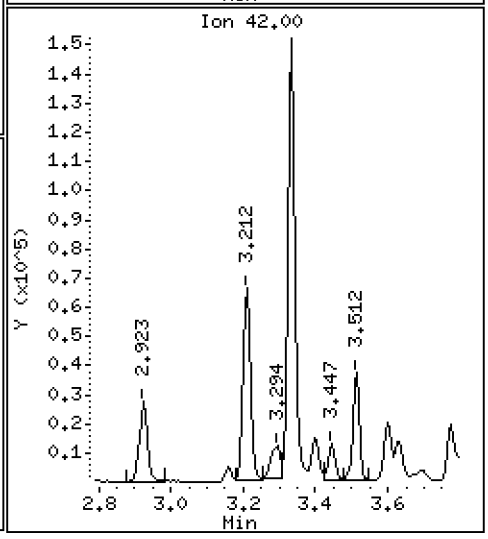












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 47

Date : 25-OCT-2016 00:30

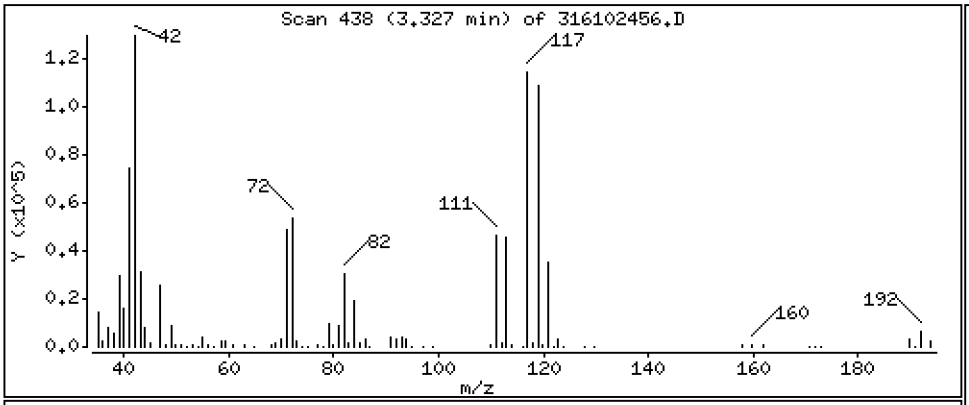
Client ID: Instrument: ms03.i

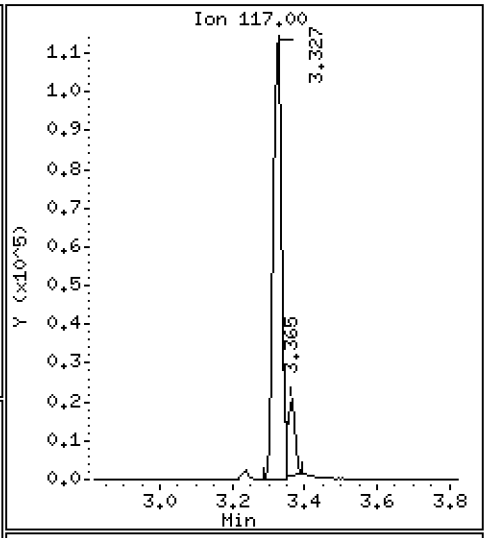
Sample Info: 1236;;1;1;3;;;

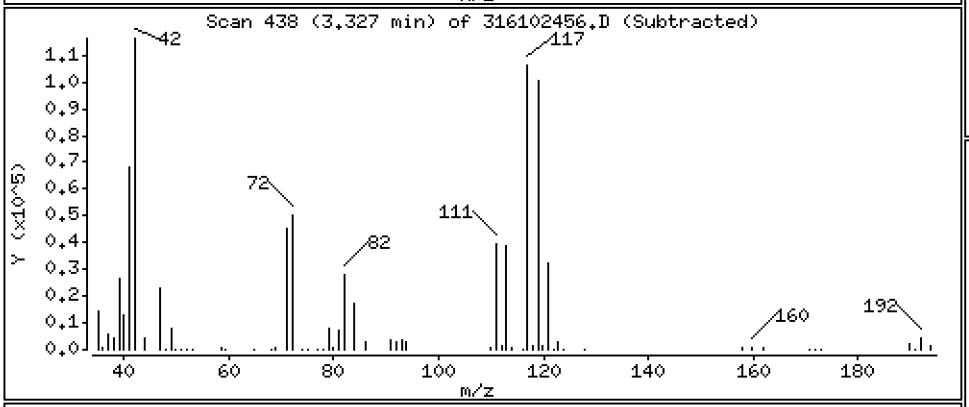
Purge Volume: 5.0 Operator: CJG

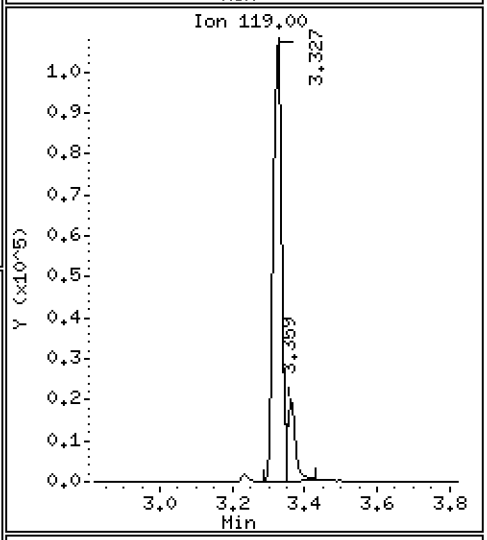
Column phase: DB-VRX Column diameter: 0.25

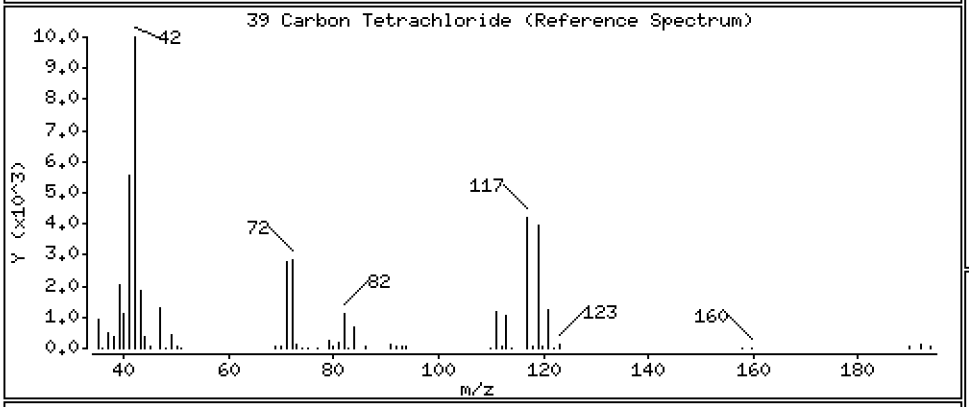
39 Carbon Tetrachloride Concentration: 20.8101 ug/L

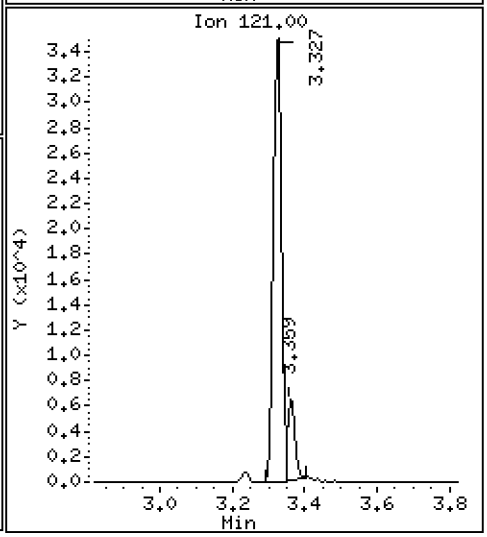


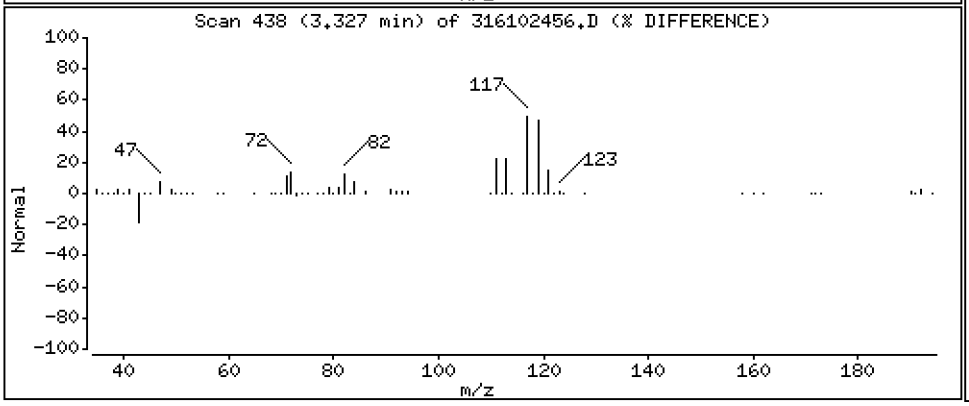












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 48

Date : 25-OCT-2016 00:30

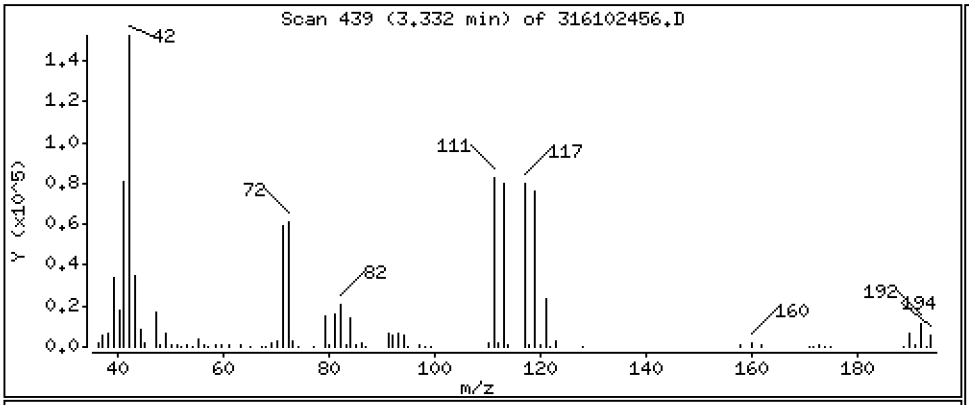
Client ID: Instrument: ms03.i

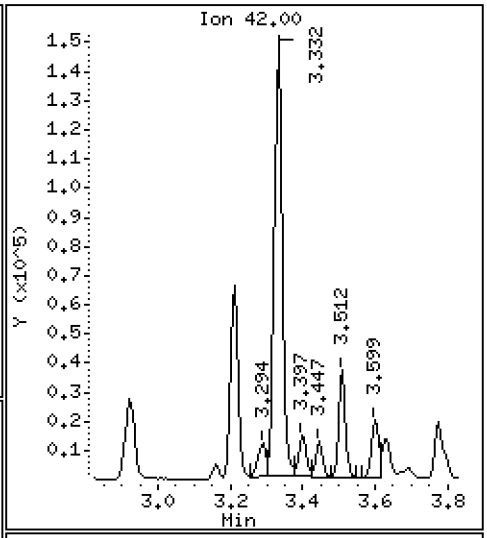
Sample Info: 1236;;1;1;3;;;

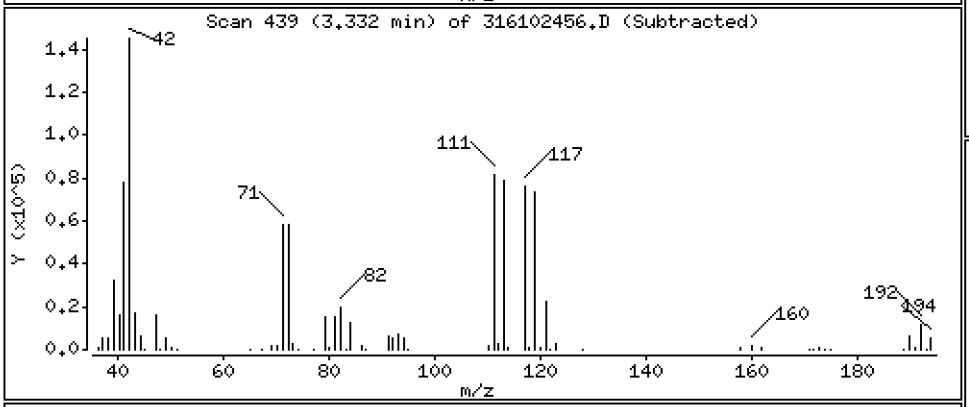
Purge Volume: 5.0 Operator: CJG

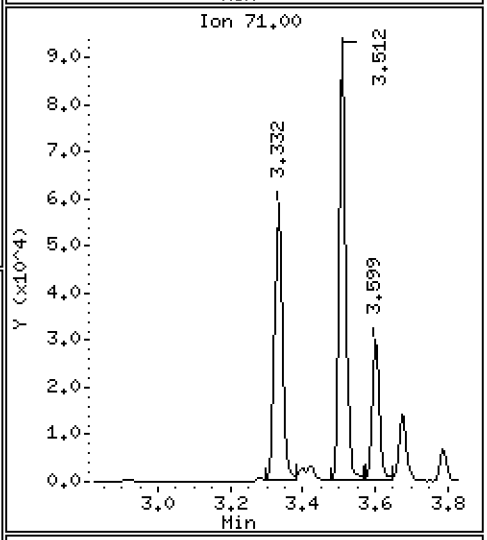
Column phase: DB-VRX Column diameter: 0.25

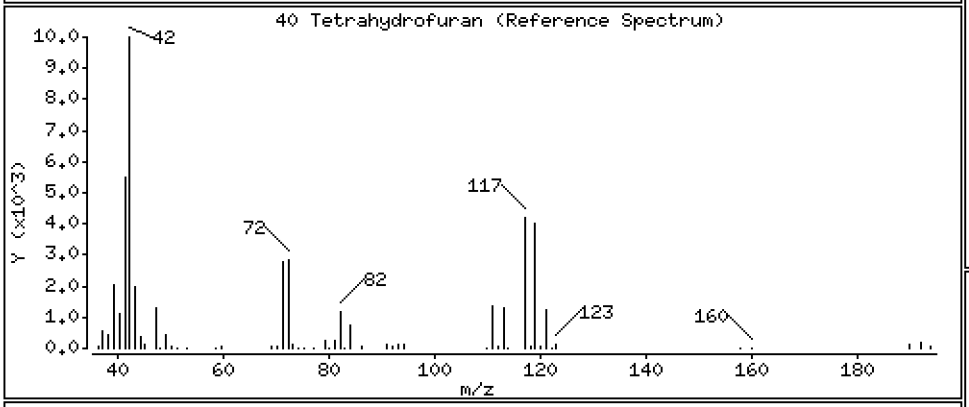
40 Tetrahydrofuran Concentration: 96.3786 ug/L

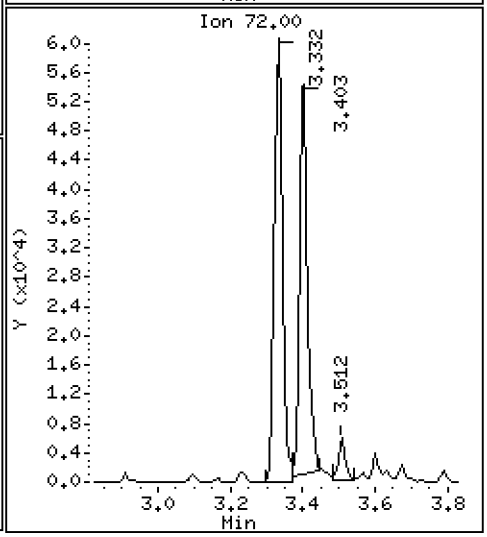


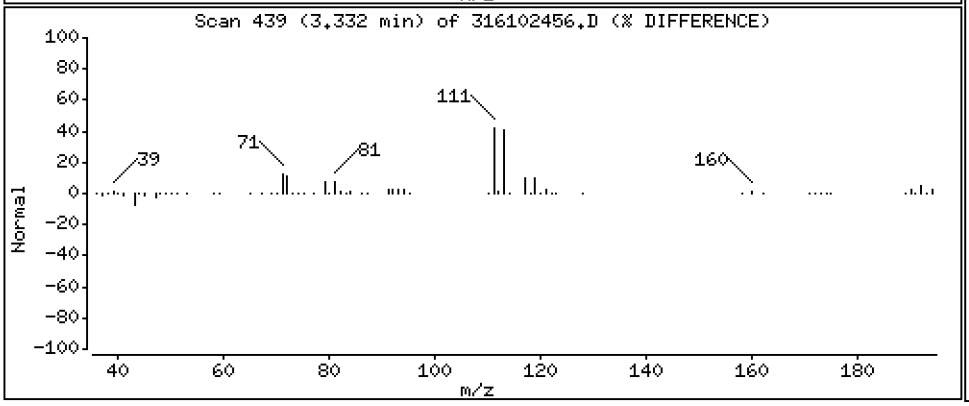












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 49

Date : 25-OCT-2016 00:30

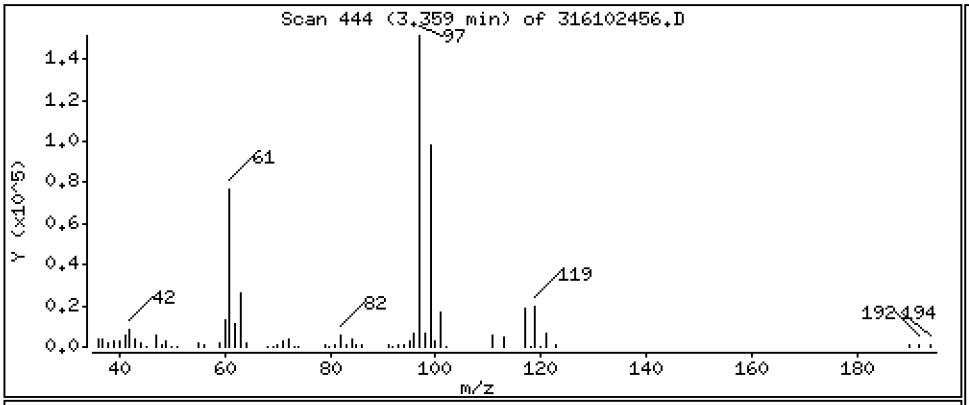
Client ID: Instrument: ms03.i

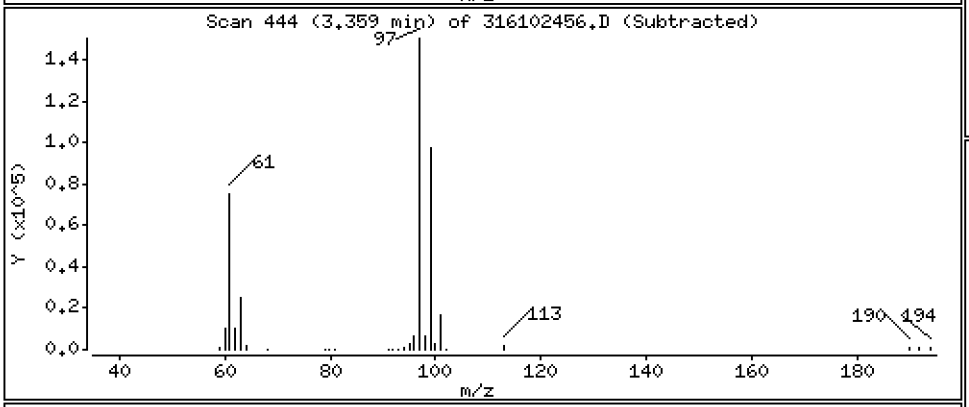
Sample Info: 1236;;1;1;3;;;

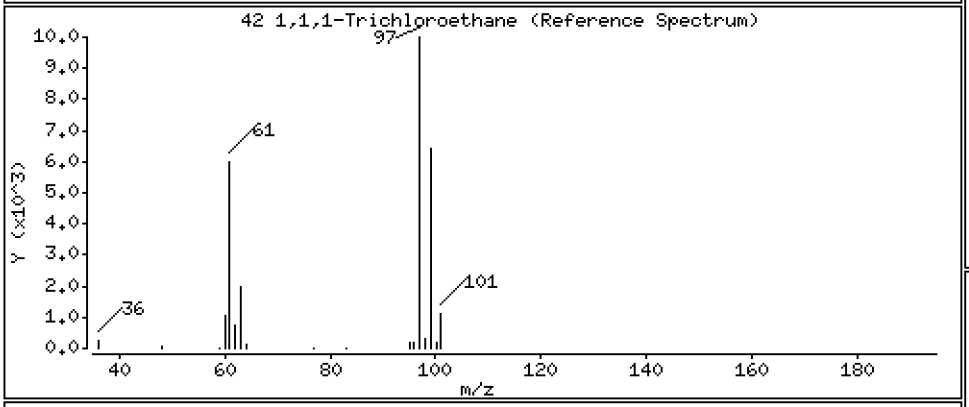
Purge Volume: 5.0 Operator: CJG

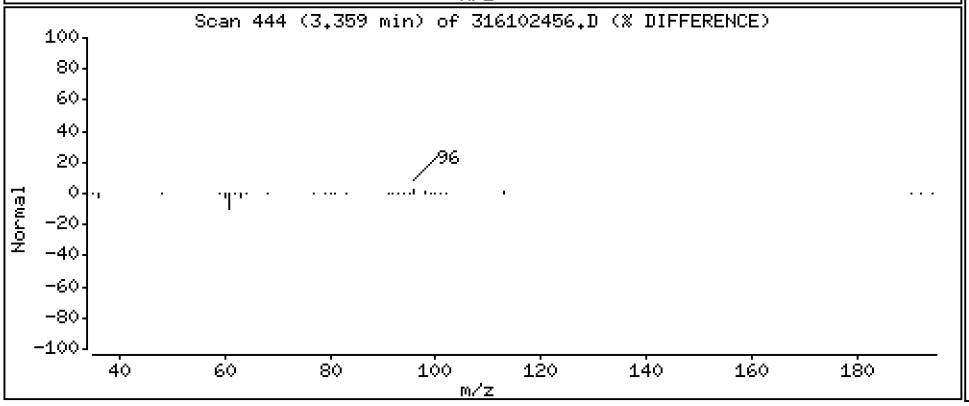
Column phase: DB-VRX Column diameter: 0.25

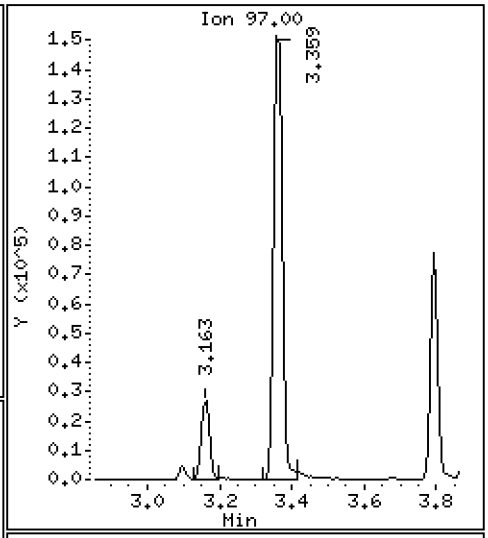
42 1,1,1-Trichloroethane Concentration: 20.5855 ug/L

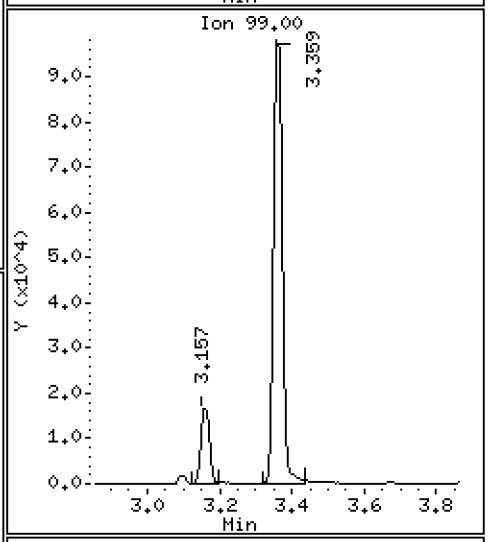


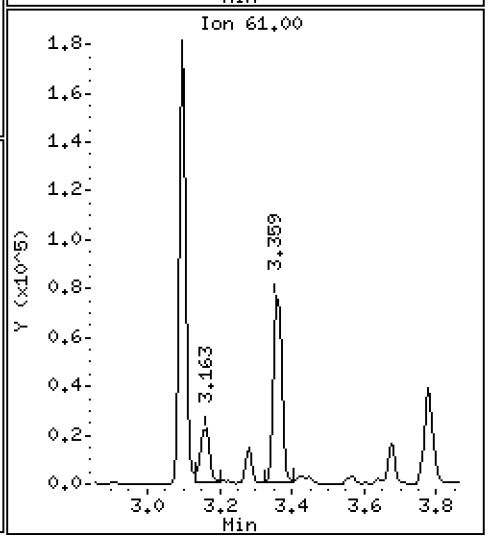












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 50

Date : 25-OCT-2016 00:30

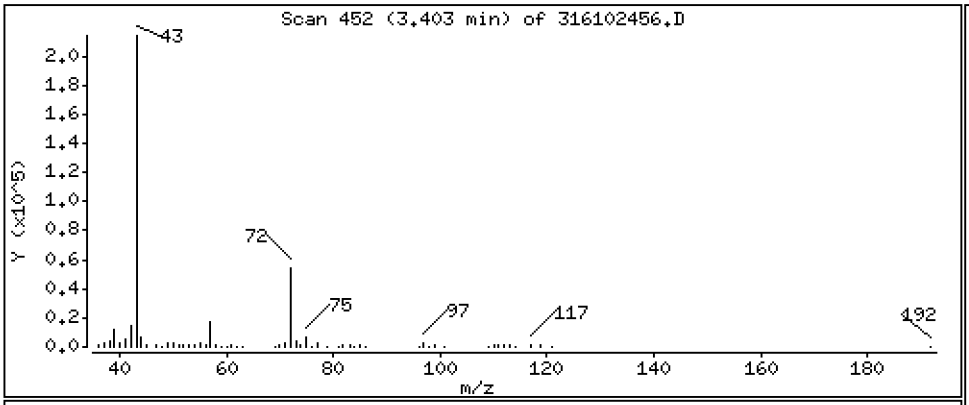
Client ID: Instrument: ms03.i

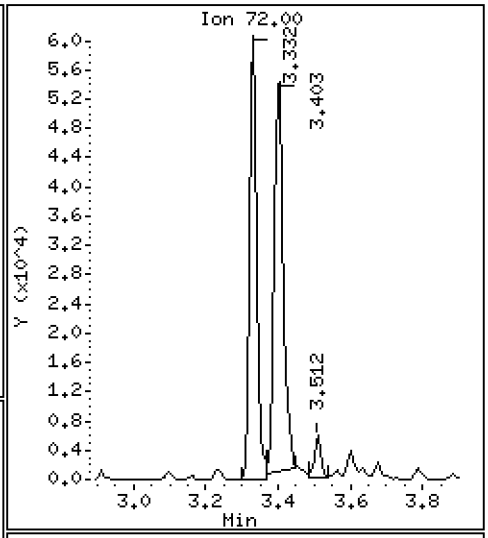
Sample Info: 1236;;1;1;3;;;

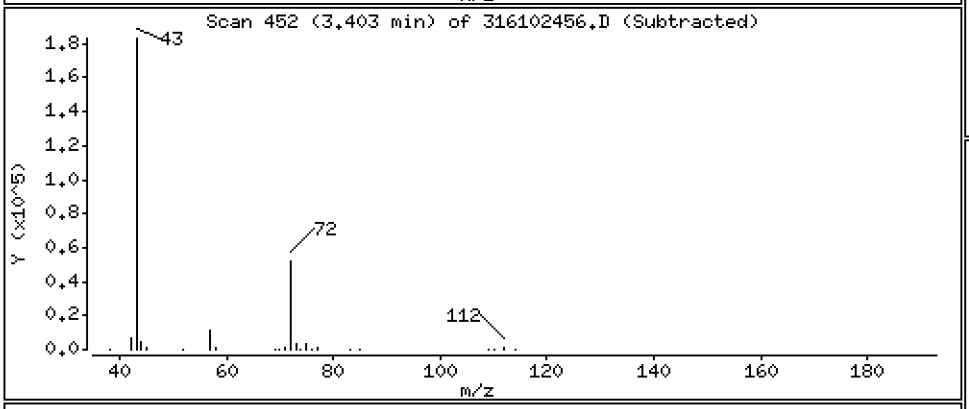
Purge Volume: 5.0 Operator: CJG

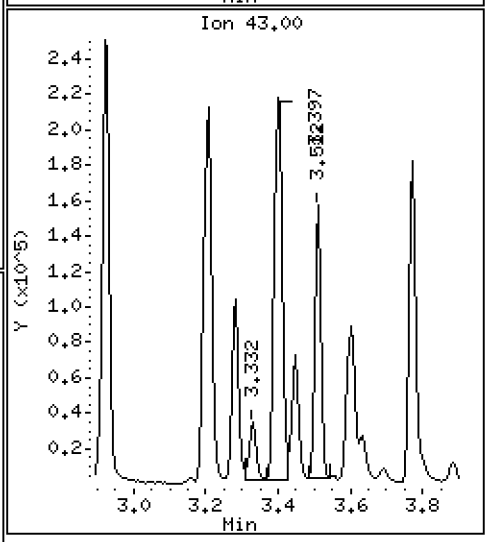
Column phase: DB-VRX Column diameter: 0.25

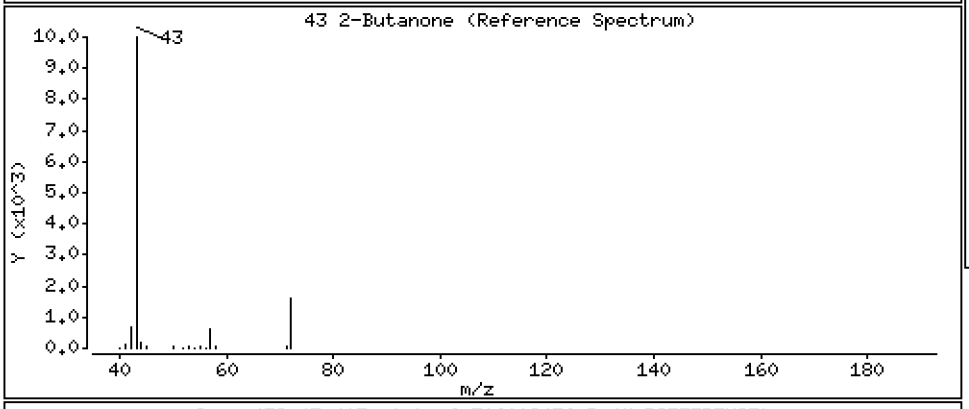
43 2-Butanone Concentration: 92.2137 ug/L

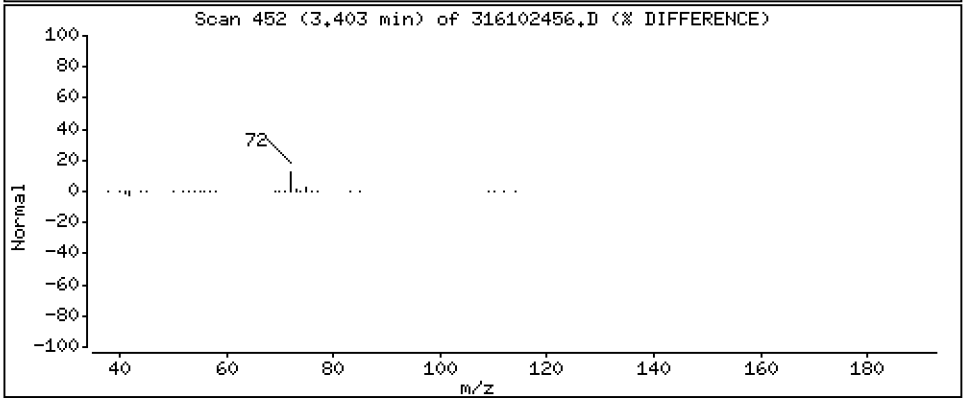












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 51

Date : 25-OCT-2016 00:30

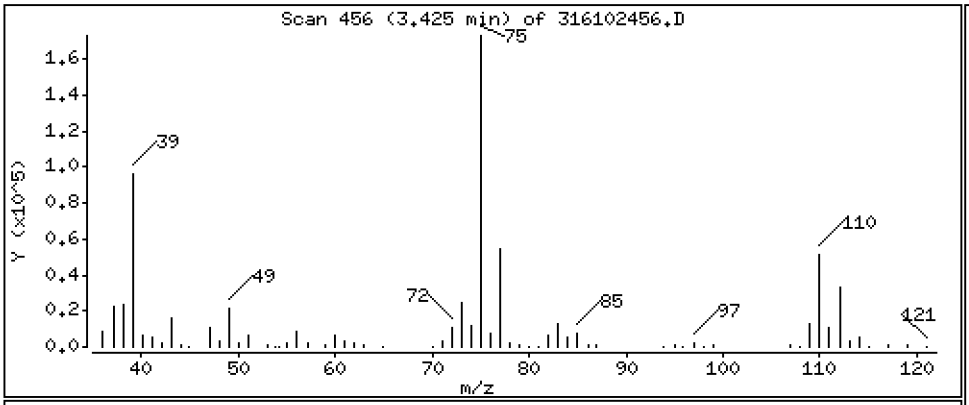
Client ID: Instrument: ms03.i

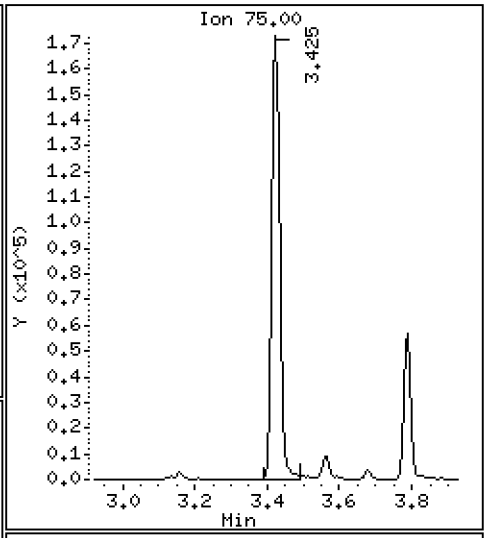
Sample Info: 1236;;1;1;3;;;

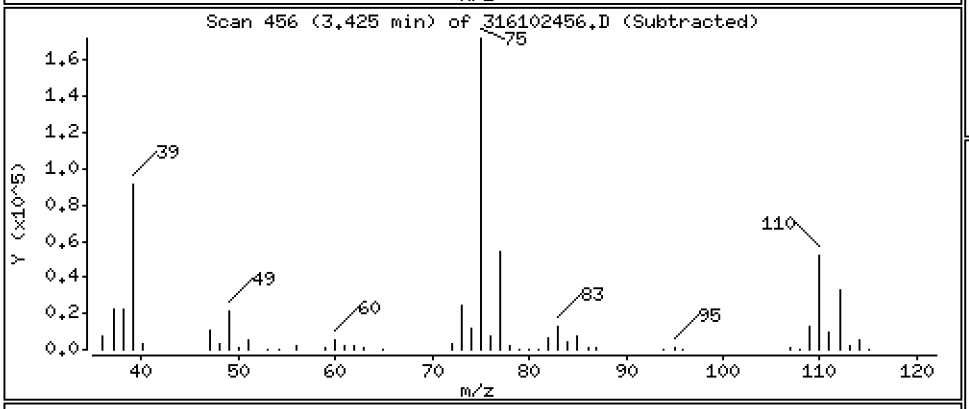
Purge Volume: 5.0 Operator: CJG

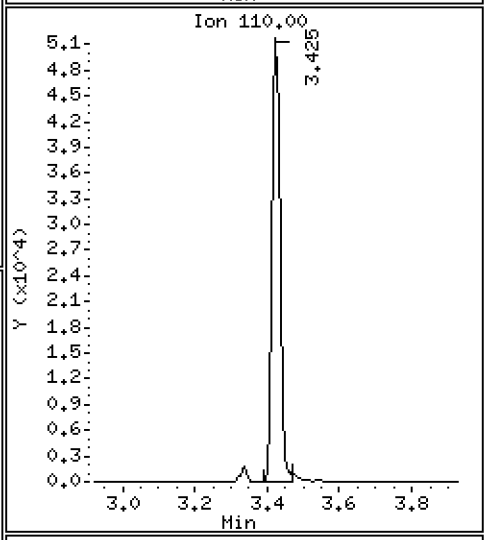
Column phase: DB-VRX Column diameter: 0.25

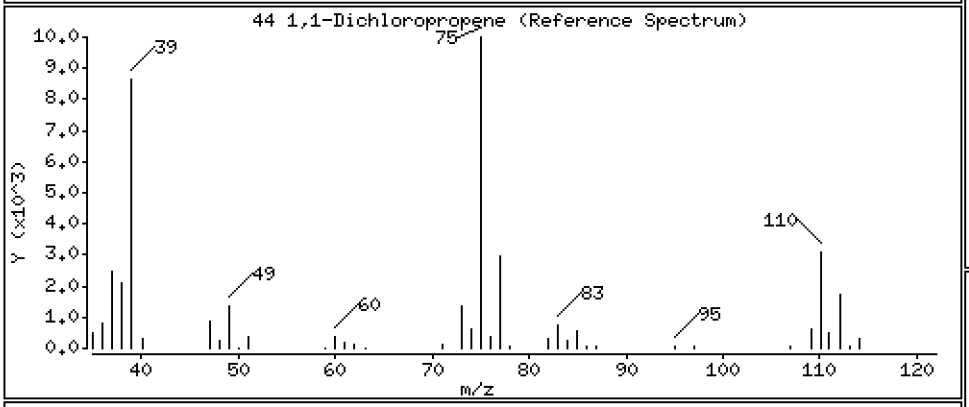
44 1,1-Dichloropropene Concentration: 21.6280 ug/L

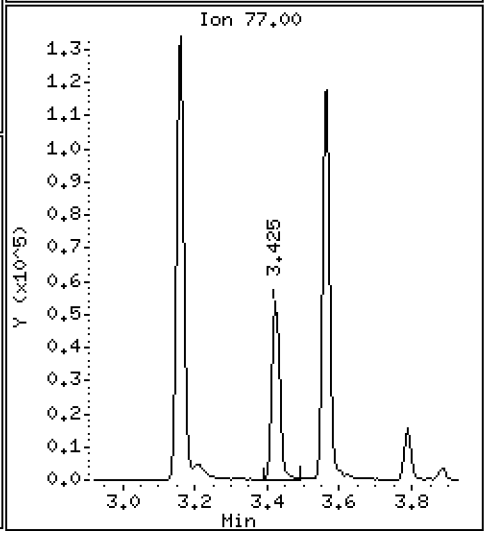


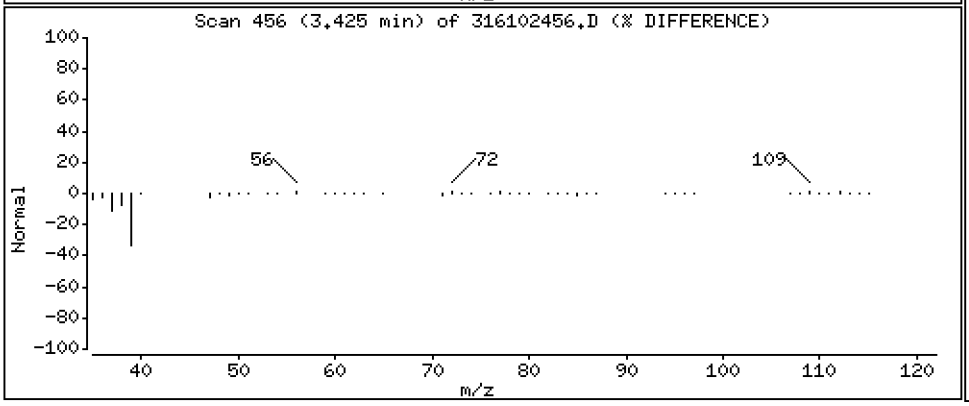












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 52

Date : 25-OCT-2016 00:30

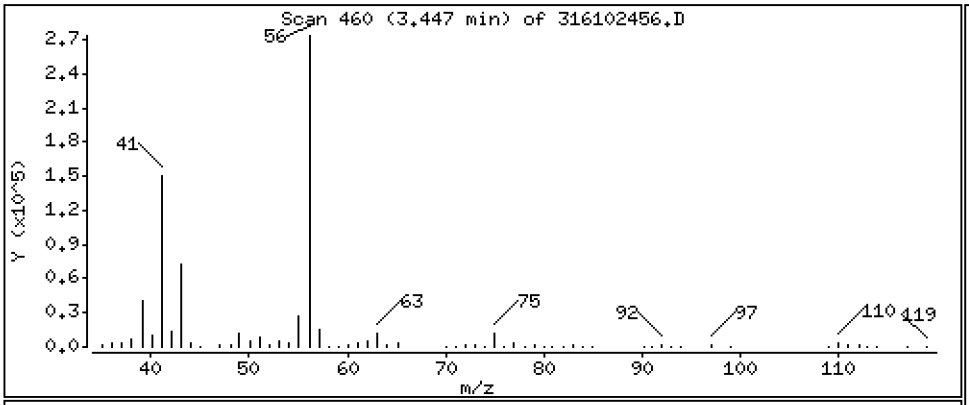
Client ID: Instrument: ms03.i

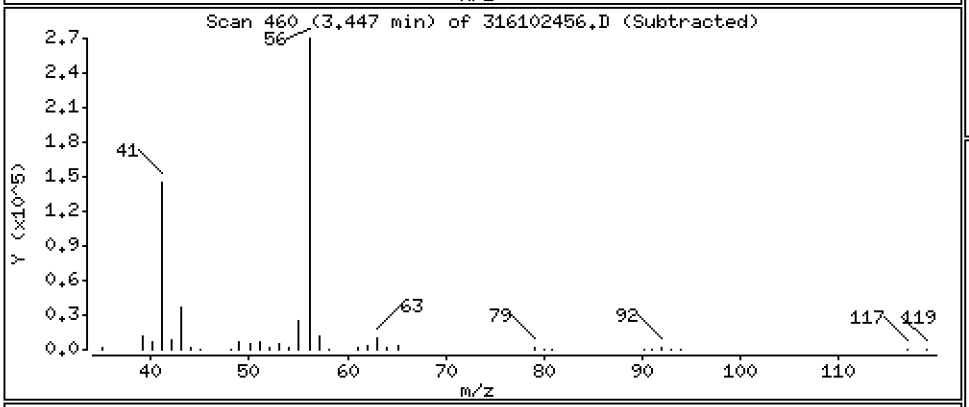
Sample Info: 1236;;1;1;3;;;

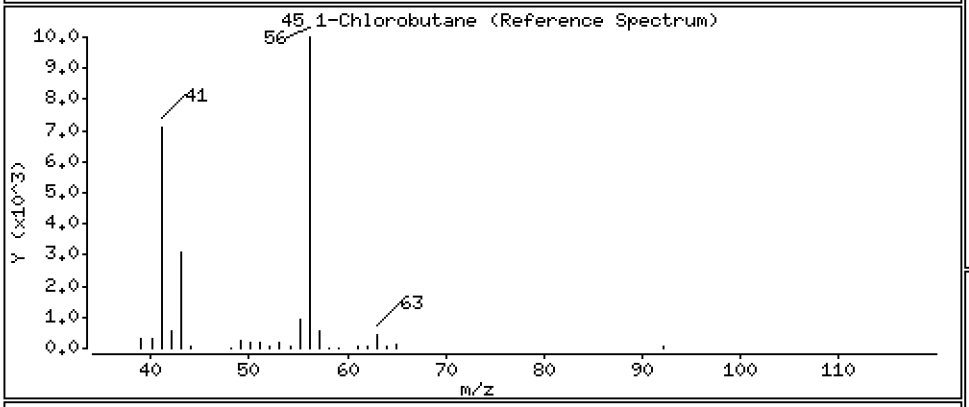
Purge Volume: 5.0 Operator: CJG

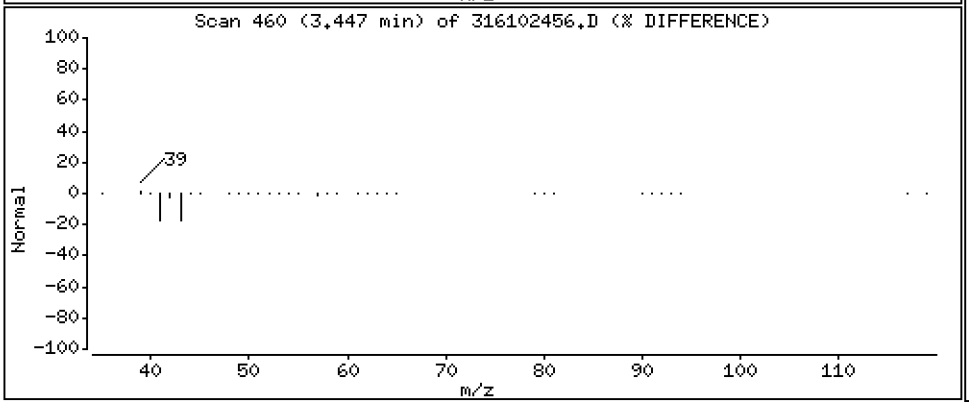
Column phase: DB-VRX Column diameter: 0.25

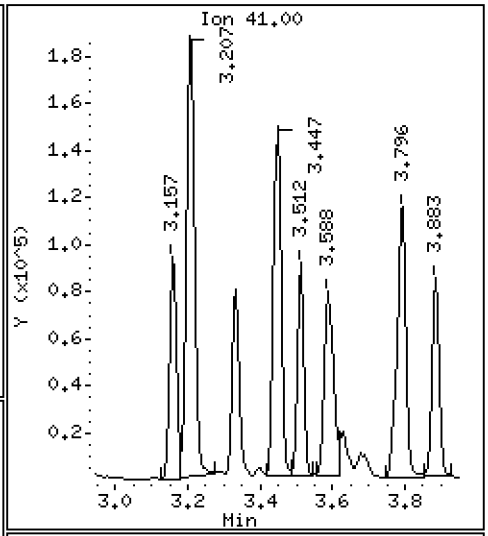
45 1-Chlorobutane Concentration: 21.9272 ug/L

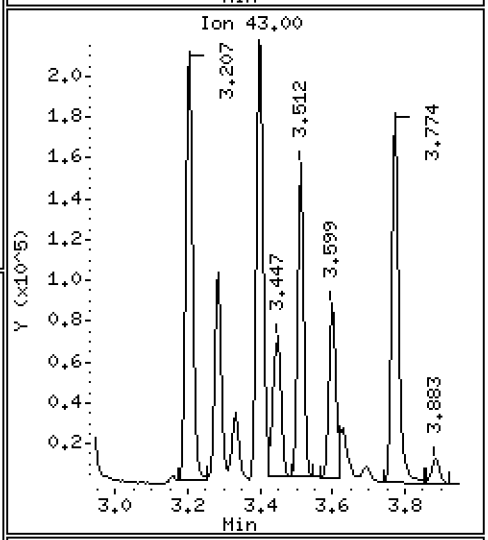


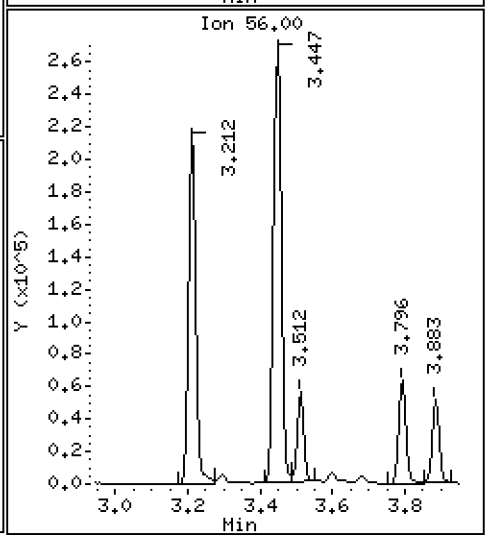












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 53

Date : 25-OCT-2016 00:30

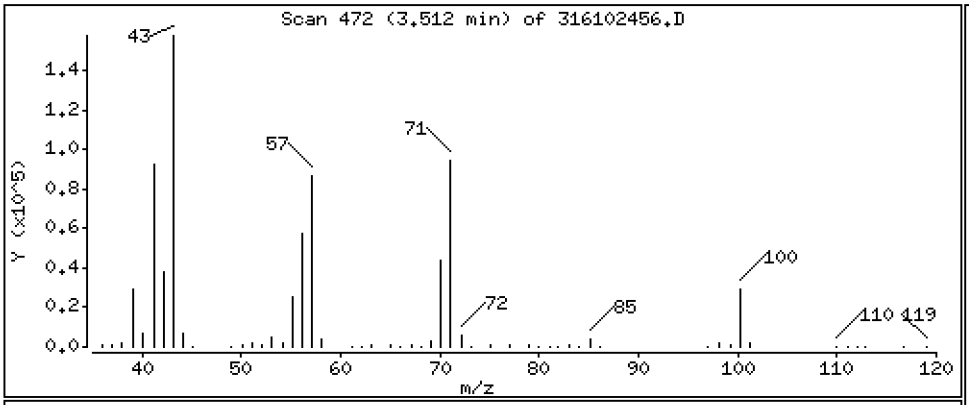
Client ID: Instrument: ms03.i

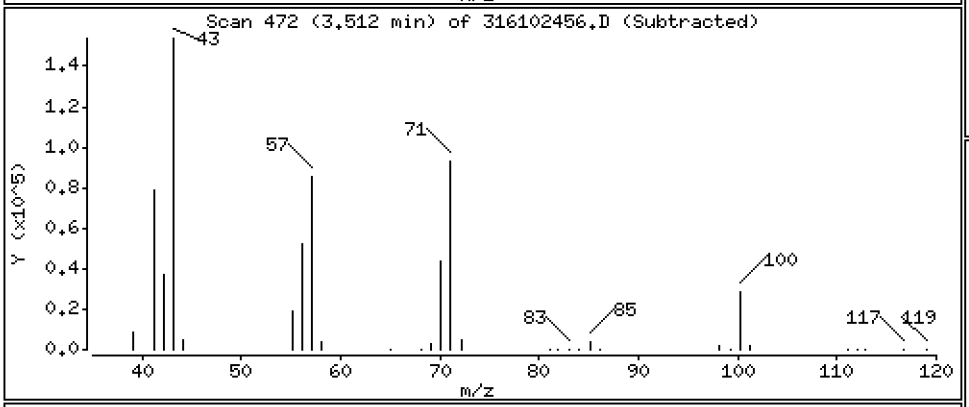
Sample Info: 1236;;1;1;3;;;

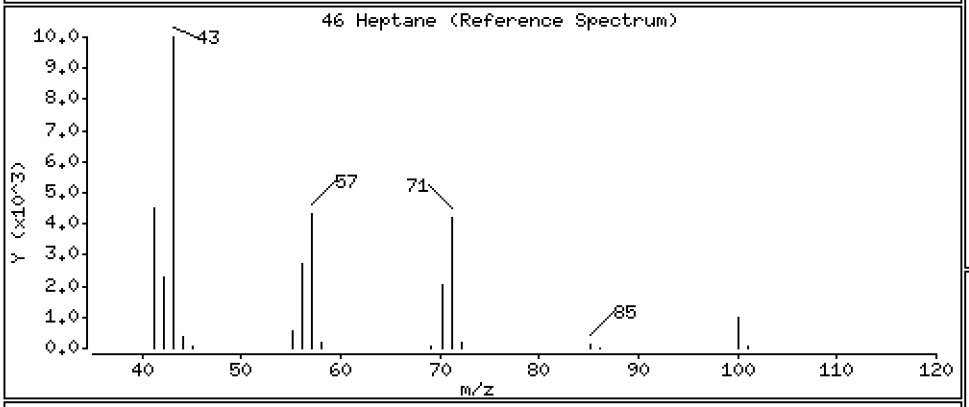
Purge Volume: 5.0 Operator: CJG

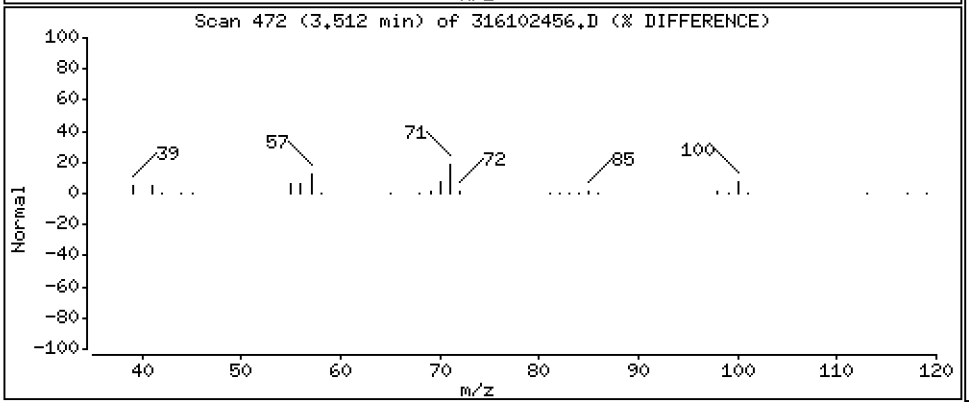
Column phase: DB-VRX Column diameter: 0.25

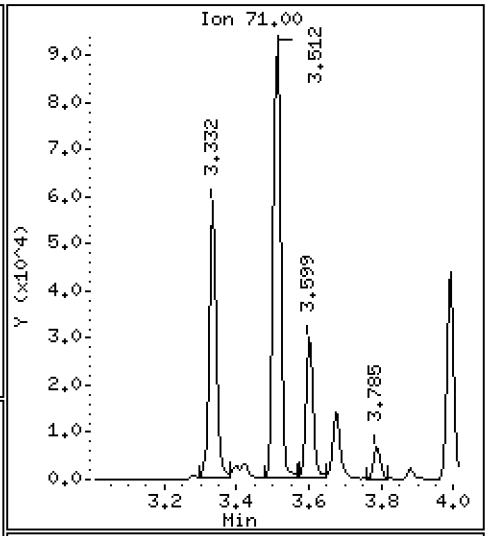
46 Heptane Concentration: 22.6231 ug/L

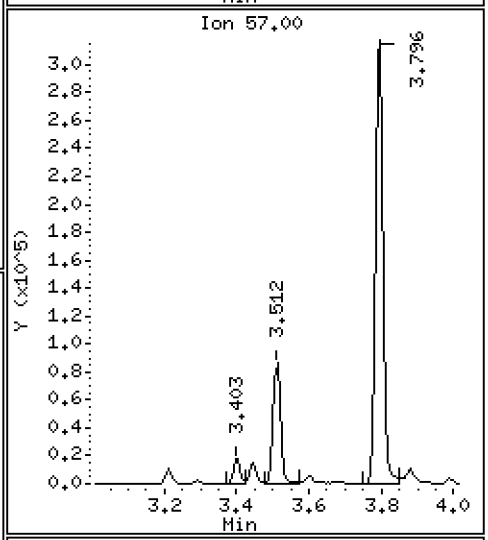


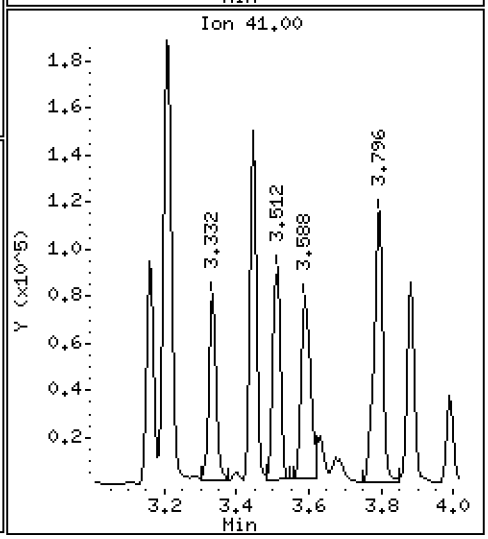












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 54

Date : 25-OCT-2016 00:30

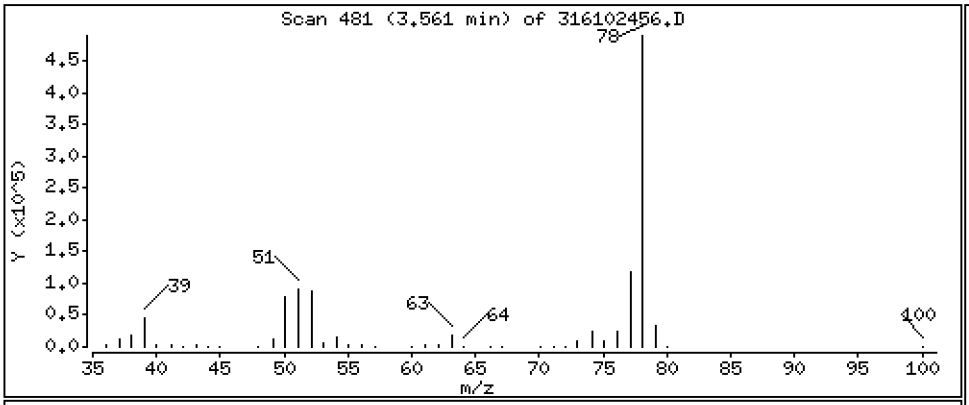
Client ID: Instrument: ms03.i

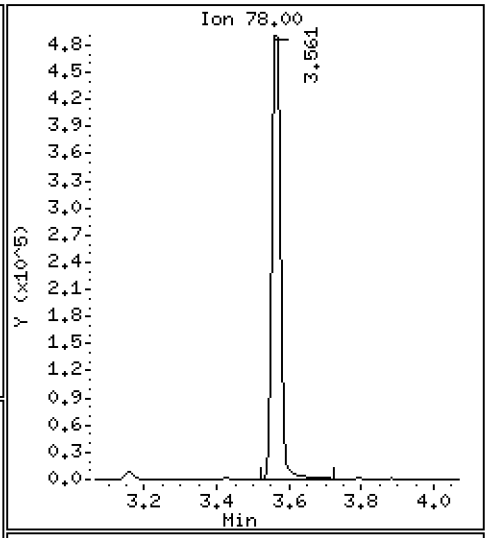
Sample Info: 1236;;1;1;3;;;

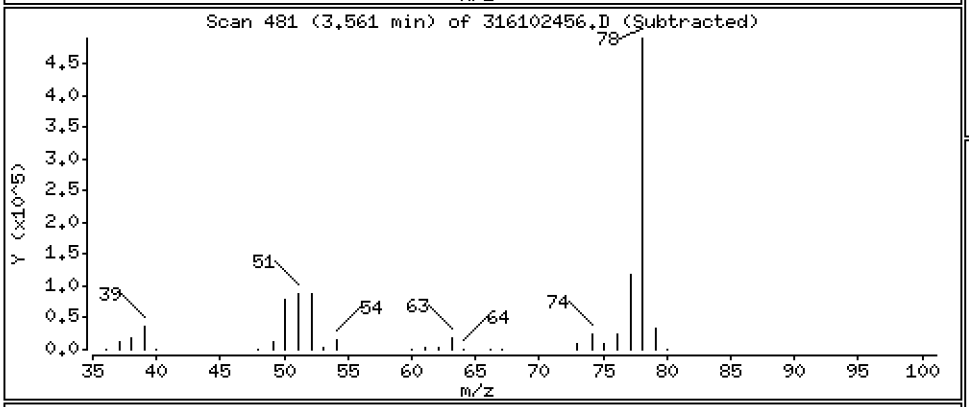
Purge Volume: 5.0 Operator: CJG

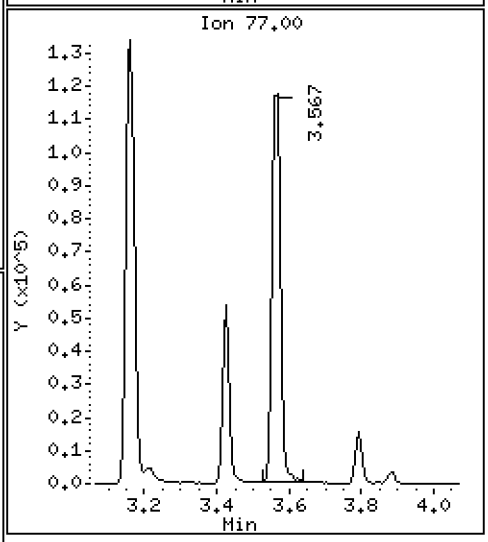
Column phase: DB-VRX Column diameter: 0.25

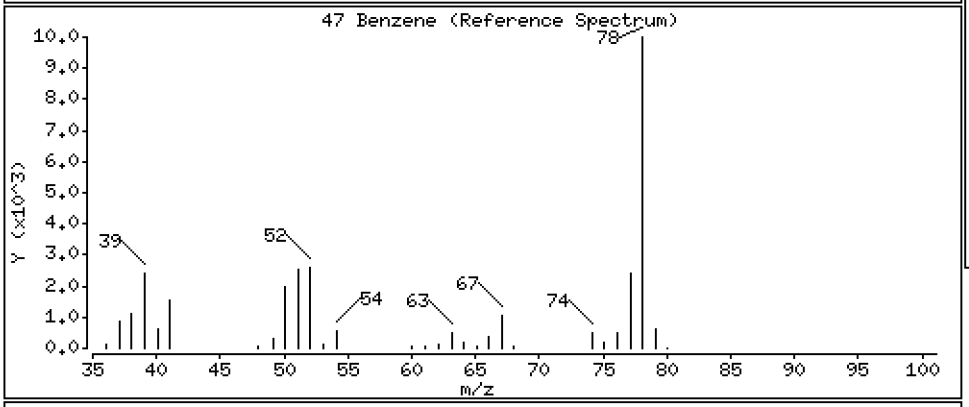
47 Benzene Concentration: 20.8952 ug/L

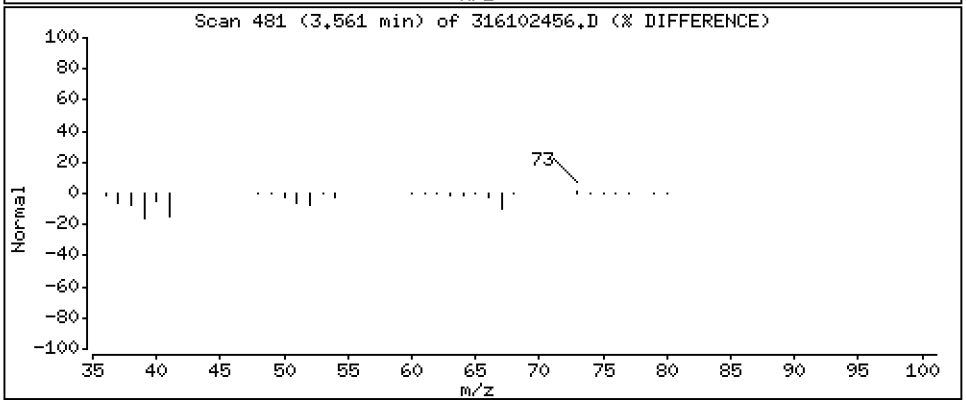












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 55

Date : 25-OCT-2016 00:30

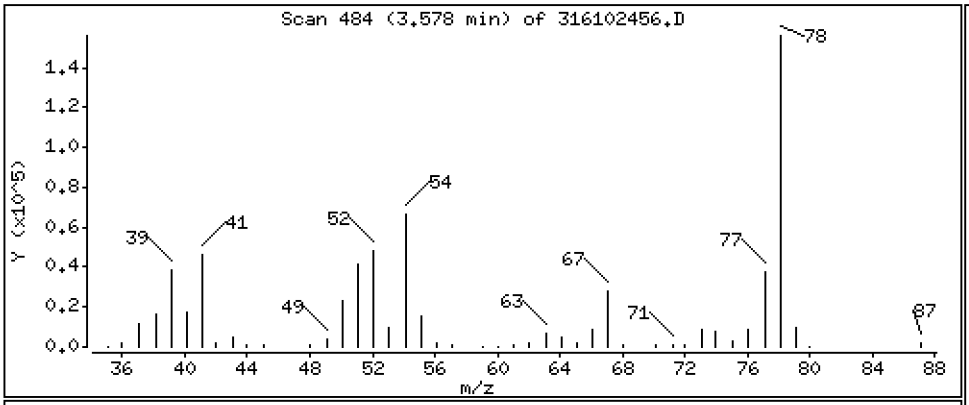
Client ID: Instrument: ms03.i

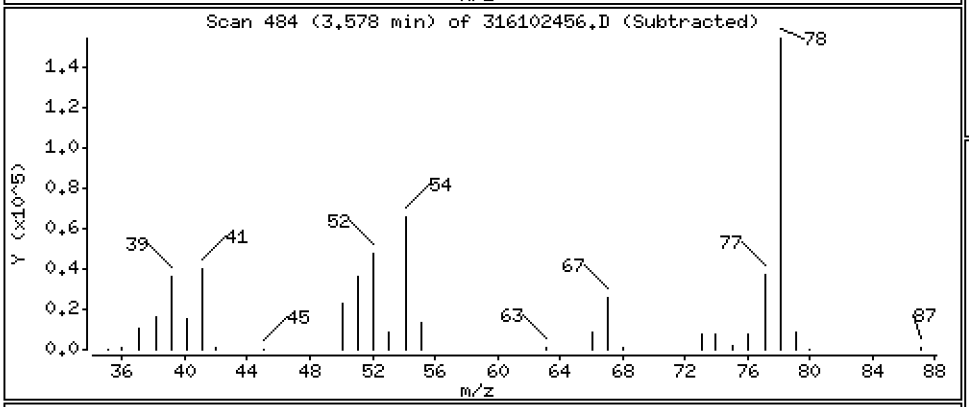
Sample Info: 1236;;1;1;3;;;

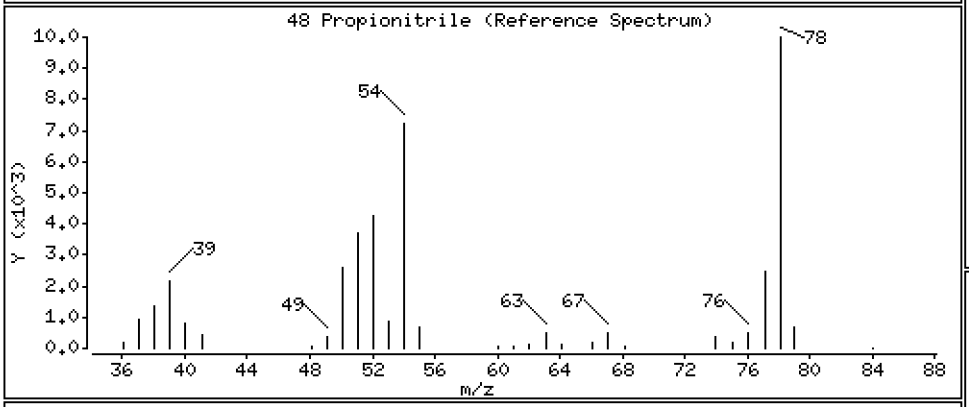
Purge Volume: 5.0 Operator: CJG

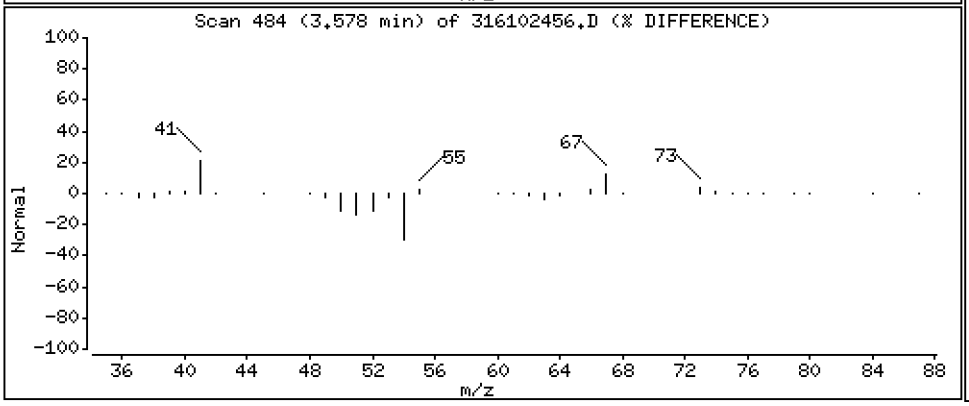
Column phase: DB-VRX Column diameter: 0.25

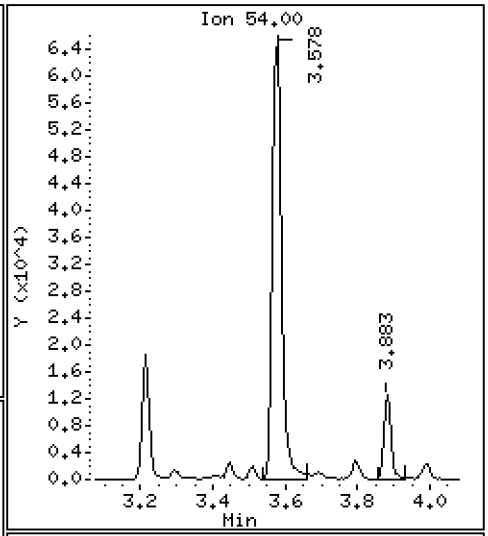
48 Propionitrile Concentration: 99.8274 ug/L

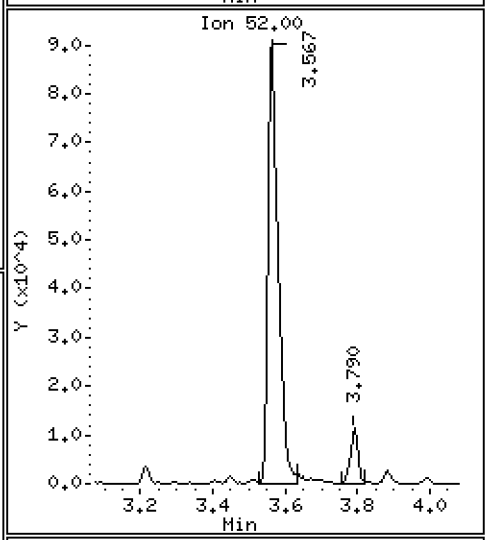


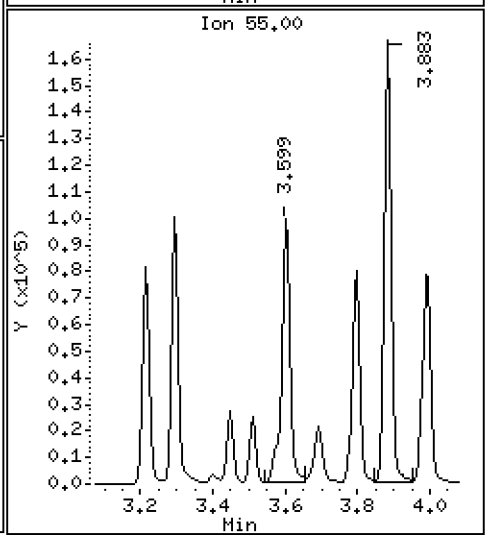












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 56

Date : 25-OCT-2016 00:30

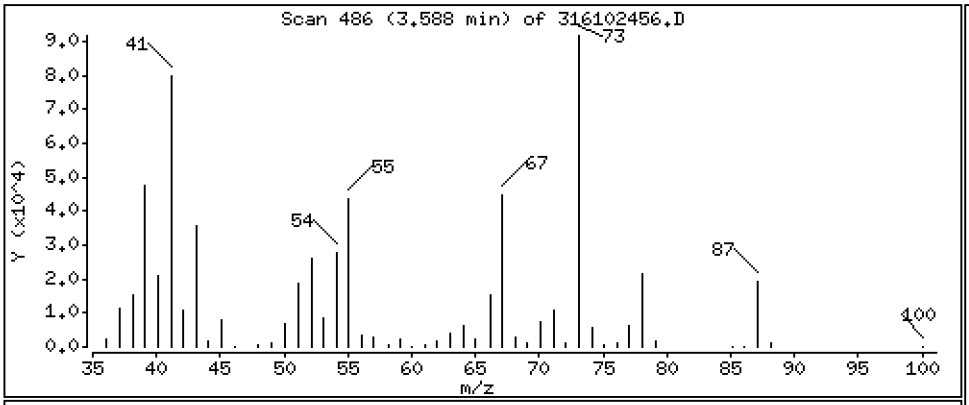
Client ID: Instrument: ms03.i

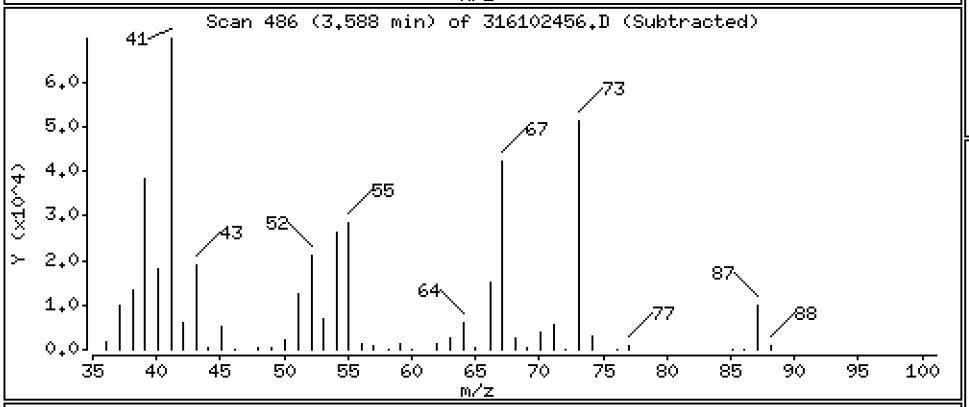
Sample Info: 1236;;1;1;3;;;

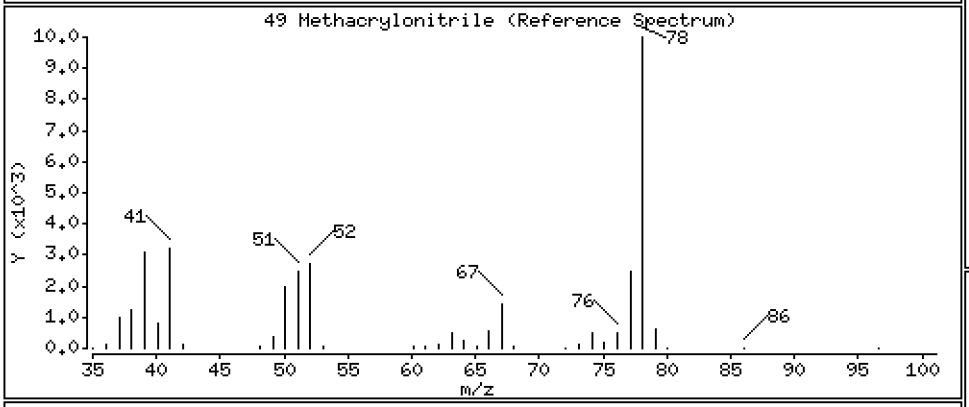
Purge Volume: 5.0 Operator: CJG

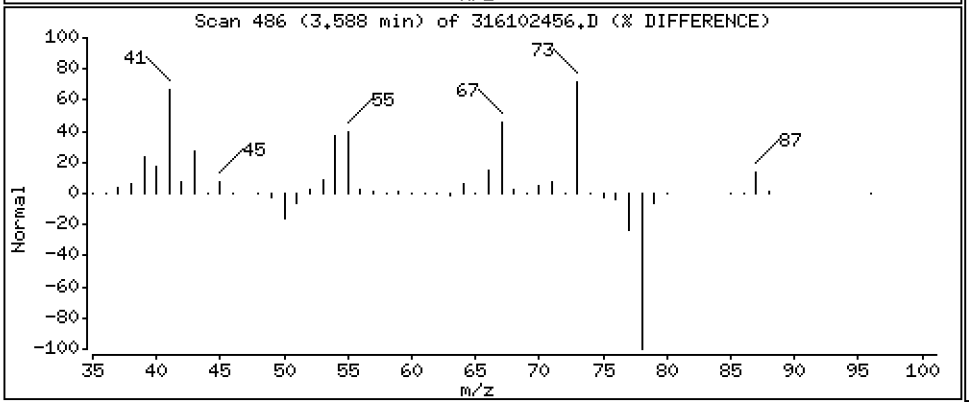
Column phase: DB-VRX Column diameter: 0.25

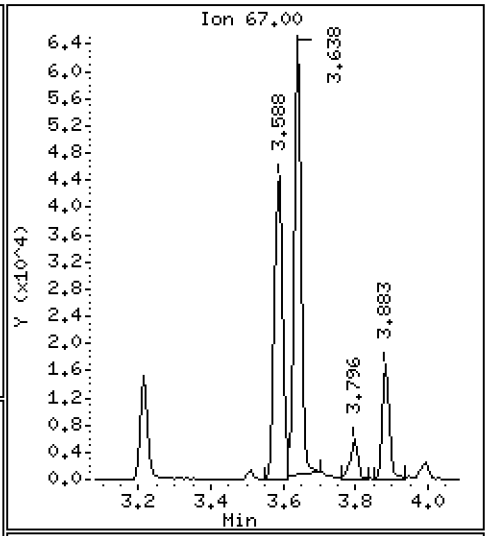
49 Methacrylonitrile Concentration: 20.2305 ug/L

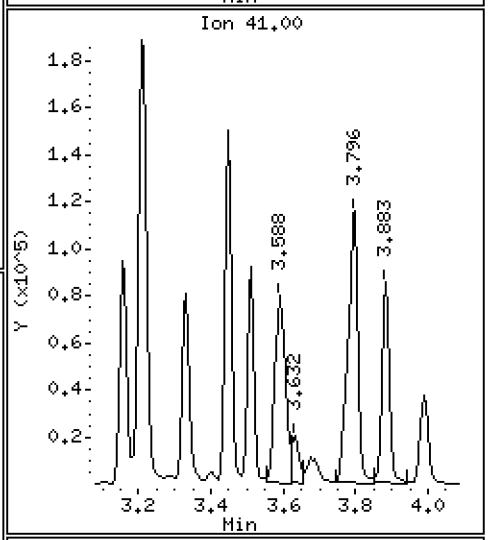


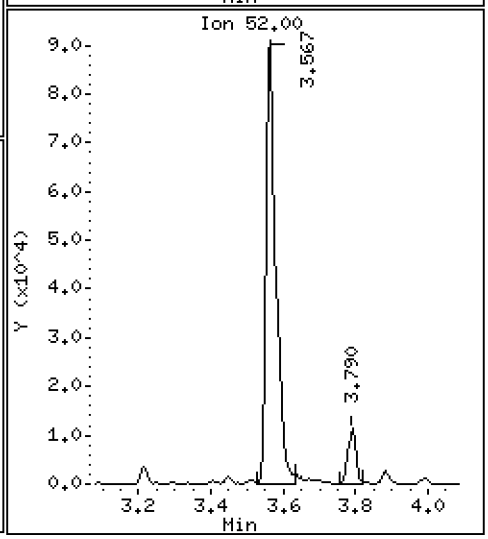












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 57

Date : 25-OCT-2016 00:30

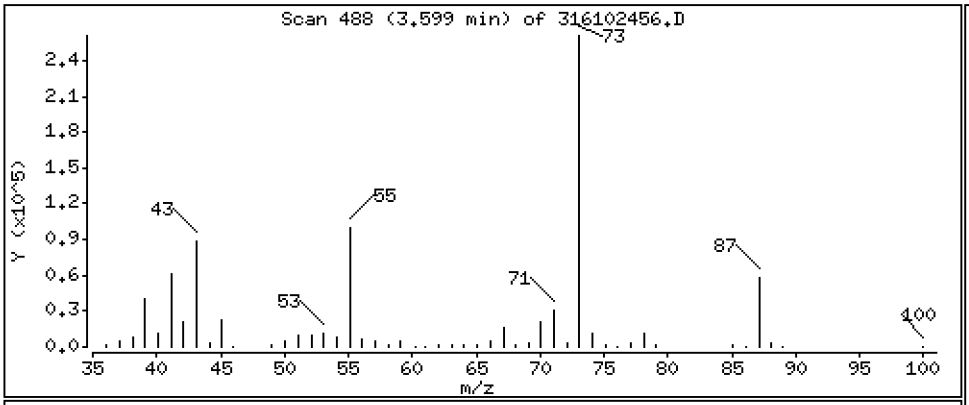
Client ID: Instrument: ms03.i

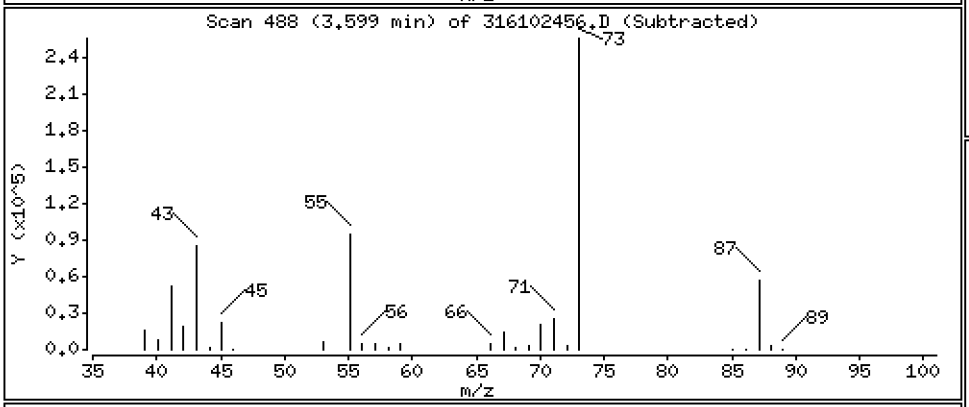
Sample Info: 1236;;1;1;3;;;

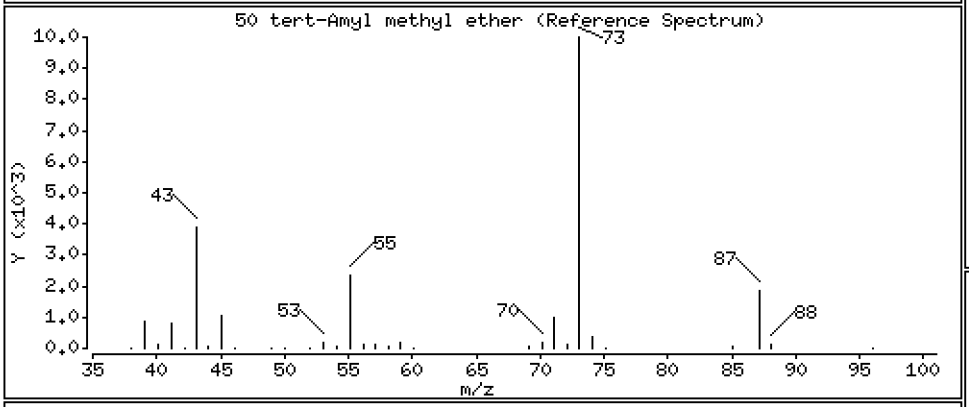
Purge Volume: 5.0 Operator: CJG

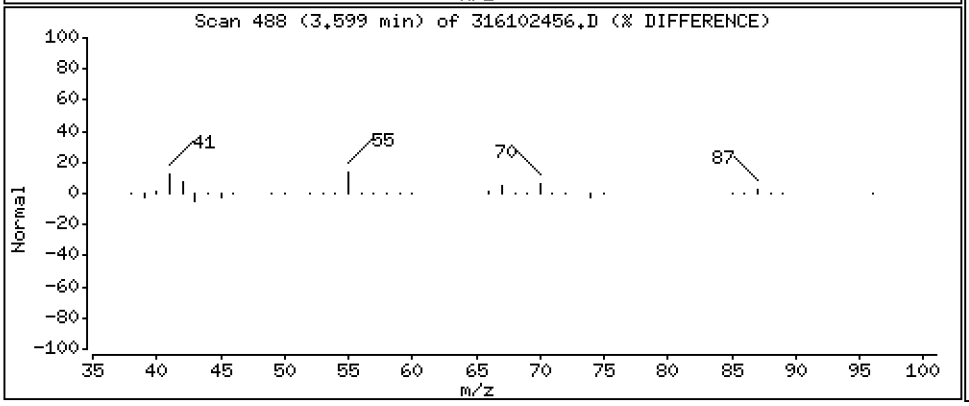
Column phase: DB-VRX Column diameter: 0.25

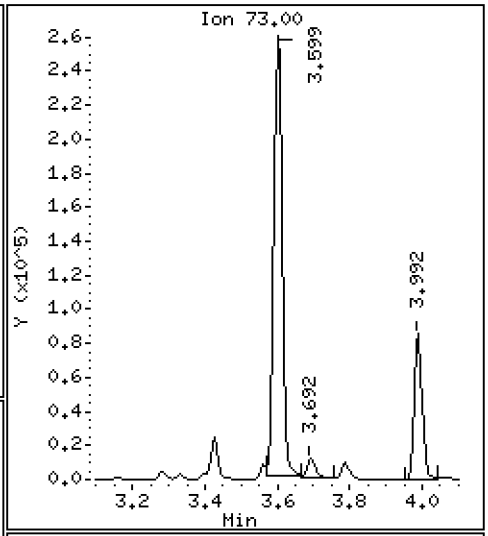
50 tert-Amyl methyl ether Concentration: 19.2216 ug/L

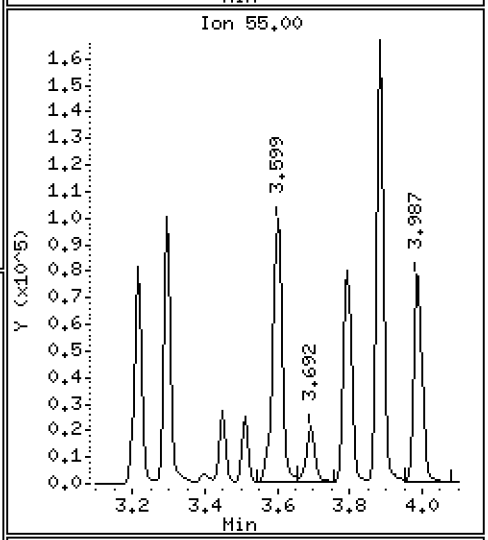


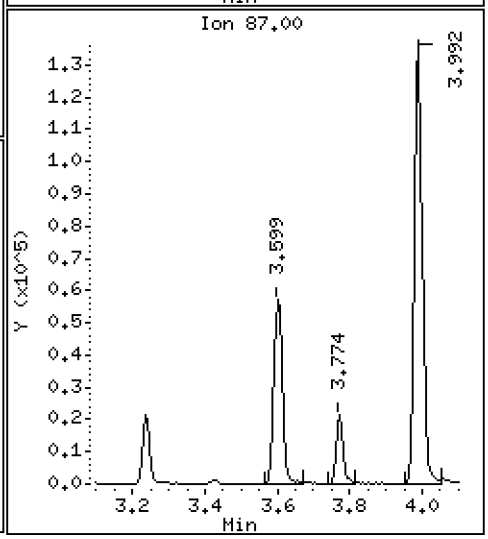












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 58

Date : 25-OCT-2016 00:30

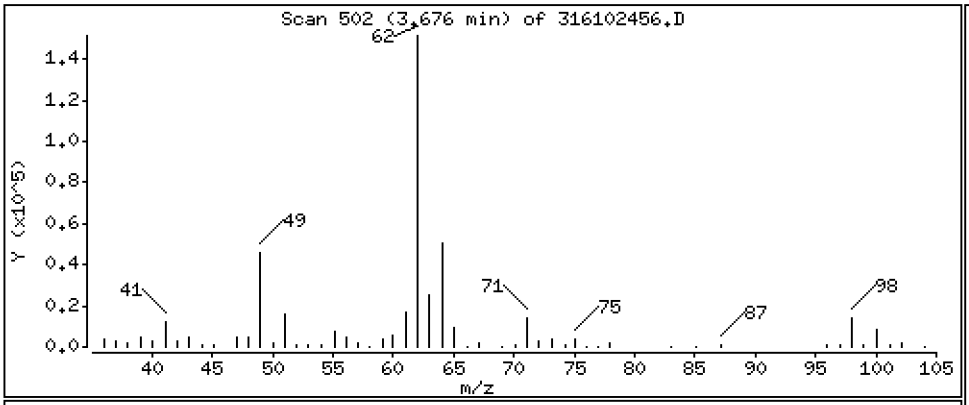
Client ID: Instrument: ms03.i

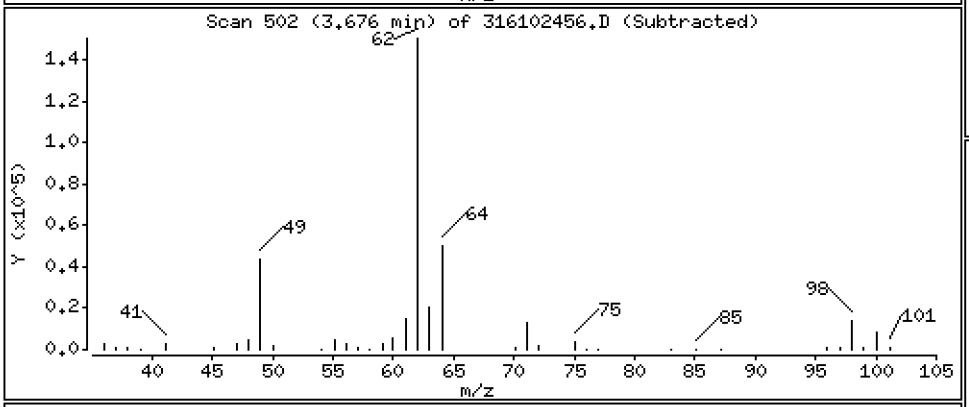
Sample Info: 1236;;1;1;3;;;

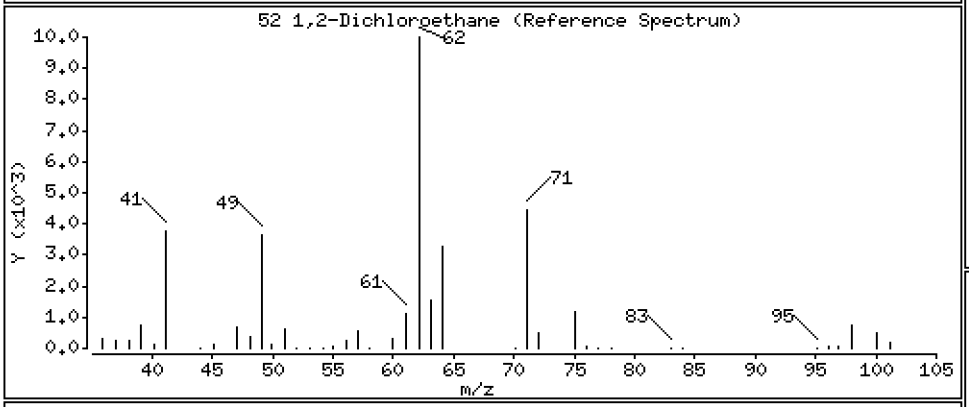
Purge Volume: 5.0 Operator: CJG

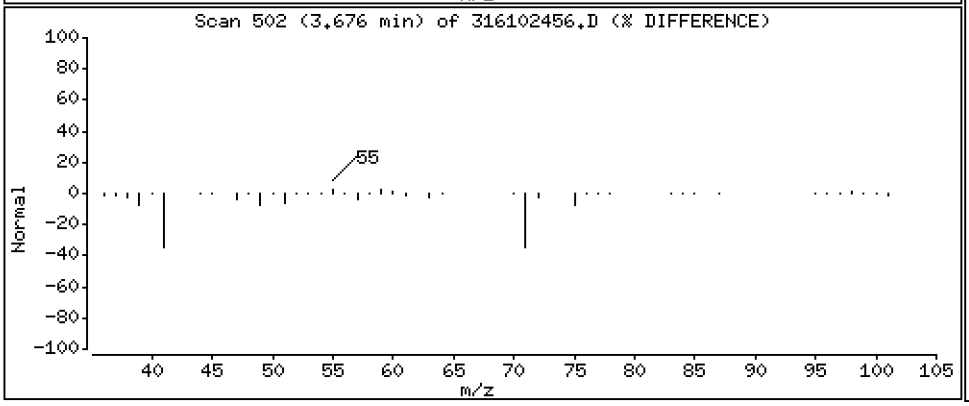
Column phase: DB-VRX Column diameter: 0.25

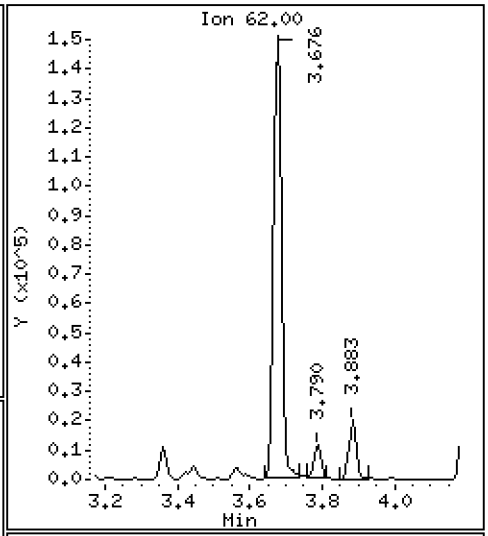
52 1,2-Dichloroethane Concentration: 19.9189 ug/L

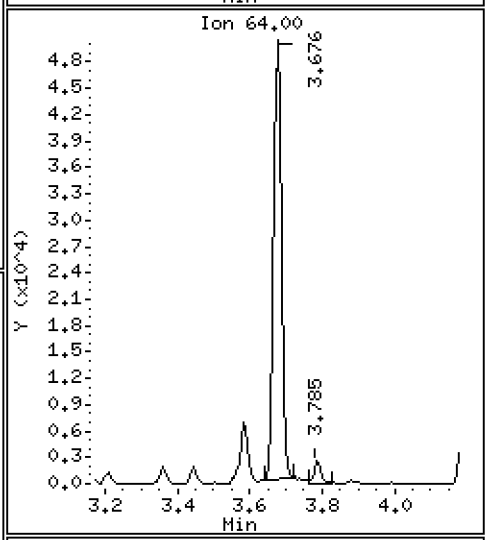


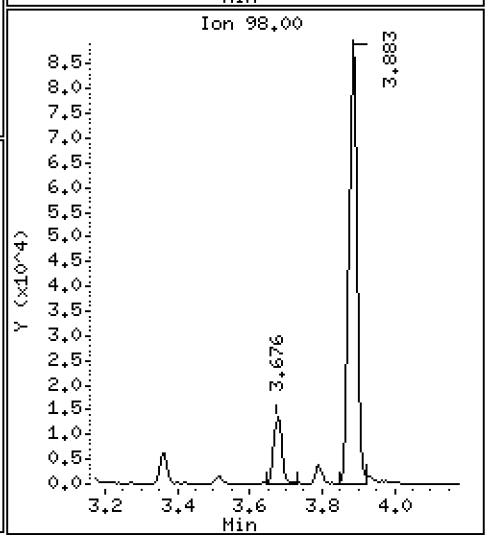












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 59

Date : 25-OCT-2016 00:30

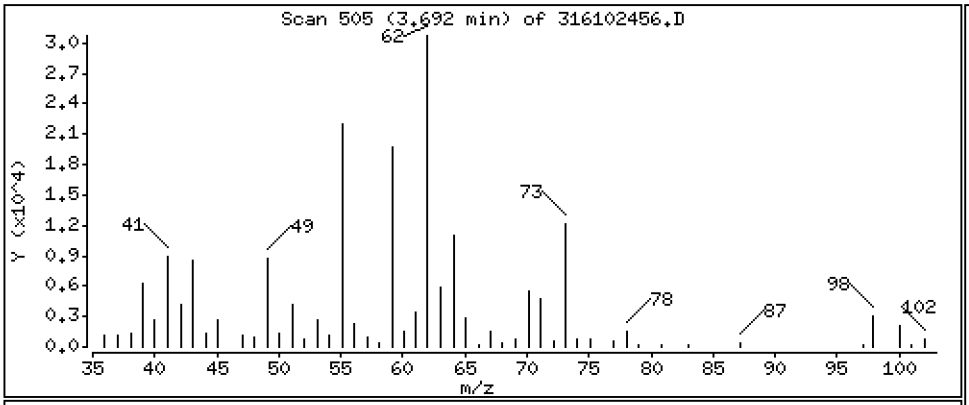
Client ID: Instrument: ms03.i

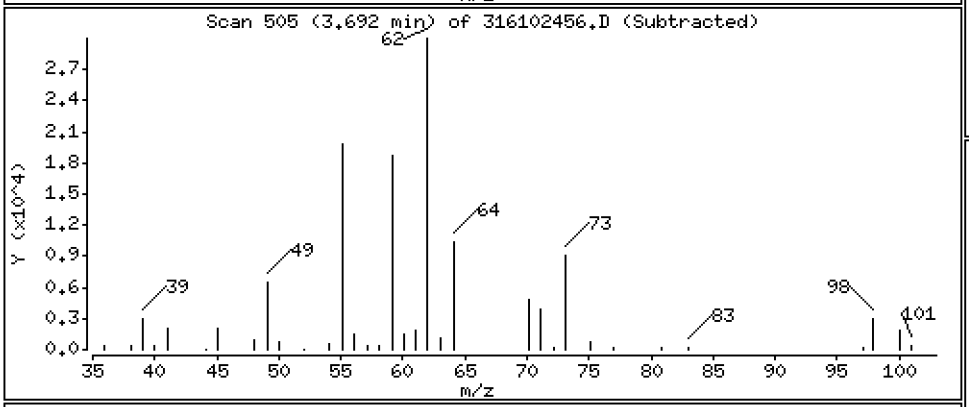
Sample Info: 1236;;1;1;3;;;

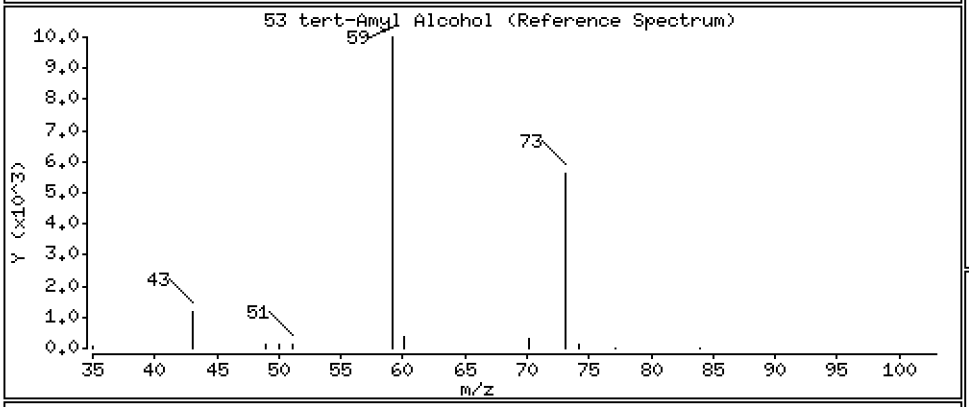
Purge Volume: 5.0 Operator: CJG

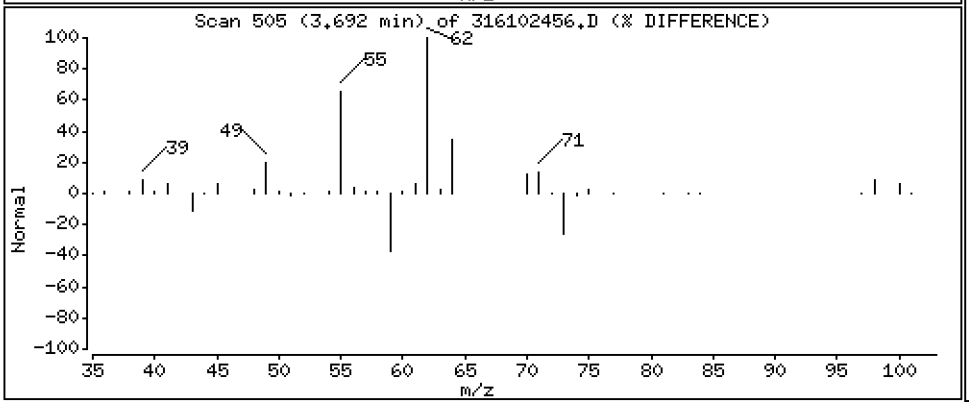
Column phase: DB-VRX Column diameter: 0.25

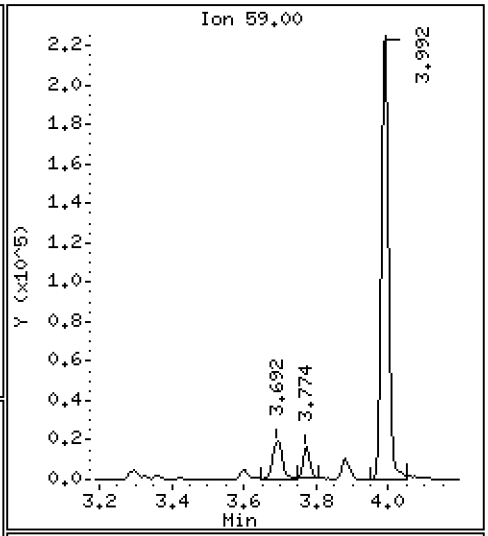
53 tert-Amyl Alcohol Concentration: 90.6931 ug/L

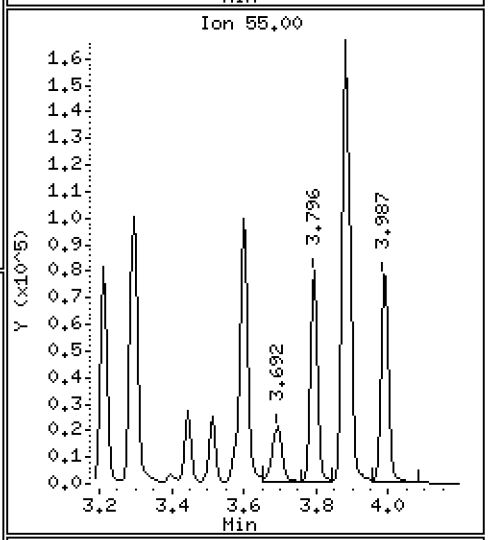


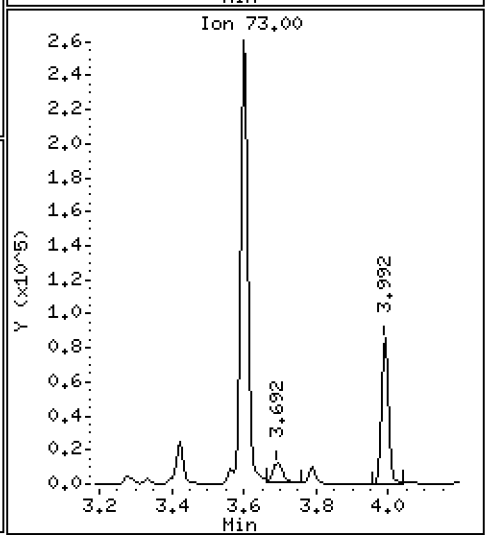












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 60

Date : 25-OCT-2016 00:30

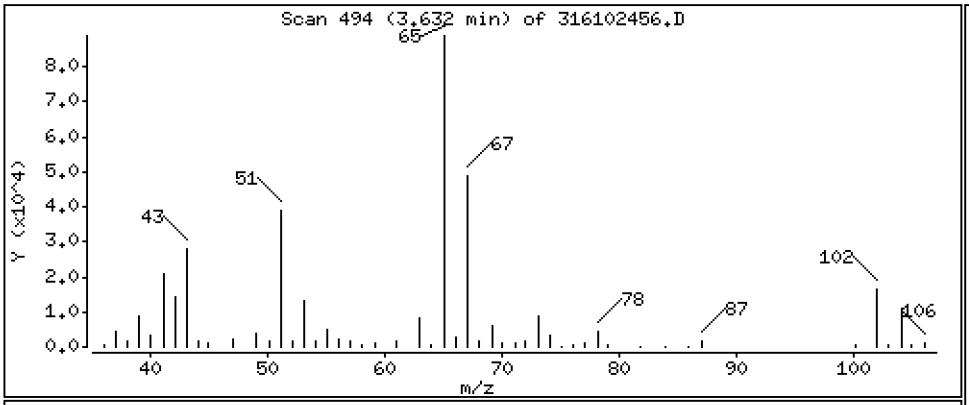
Client ID: Instrument: ms03.i

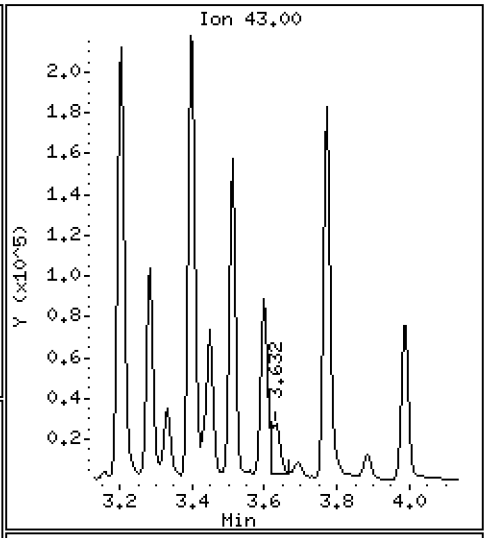
Sample Info: 1236;;1;1;3;;;

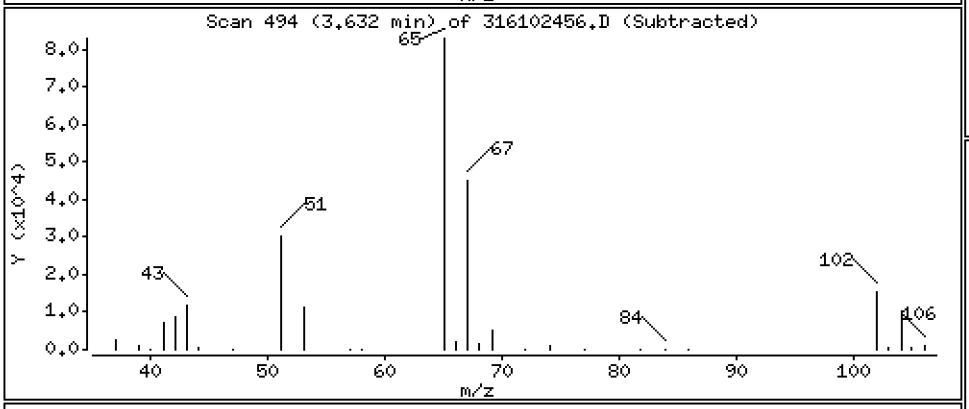
Purge Volume: 5.0 Operator: CJG

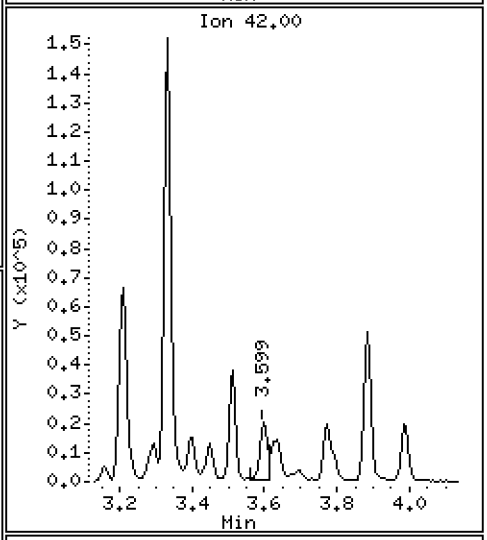
Column phase: DB-VRX Column diameter: 0.25

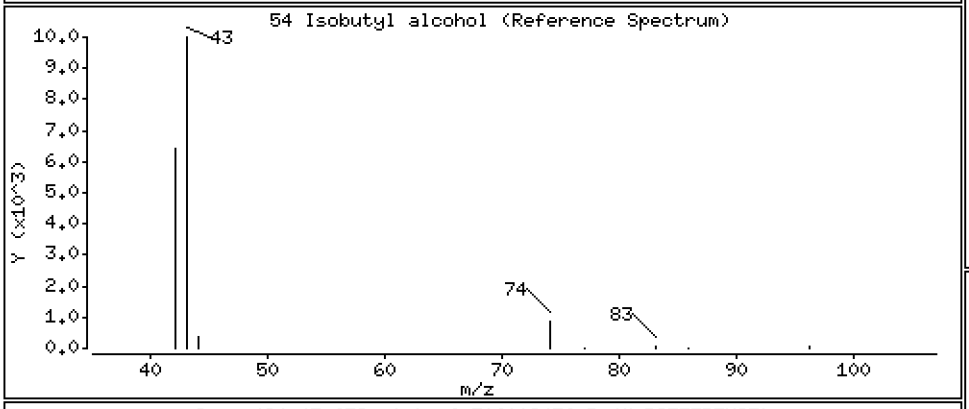
54 Isobutyl alcohol Concentration: 218.271 ug/L

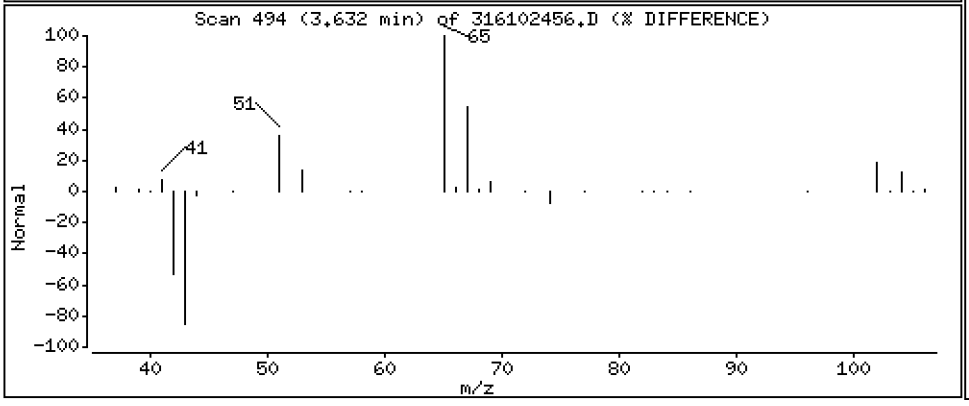


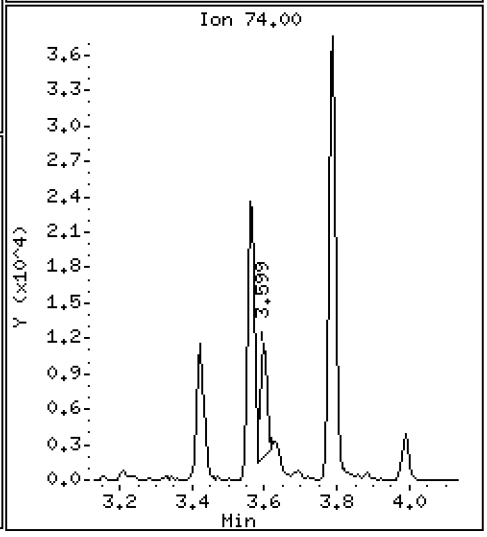












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 61

Date : 25-OCT-2016 00:30

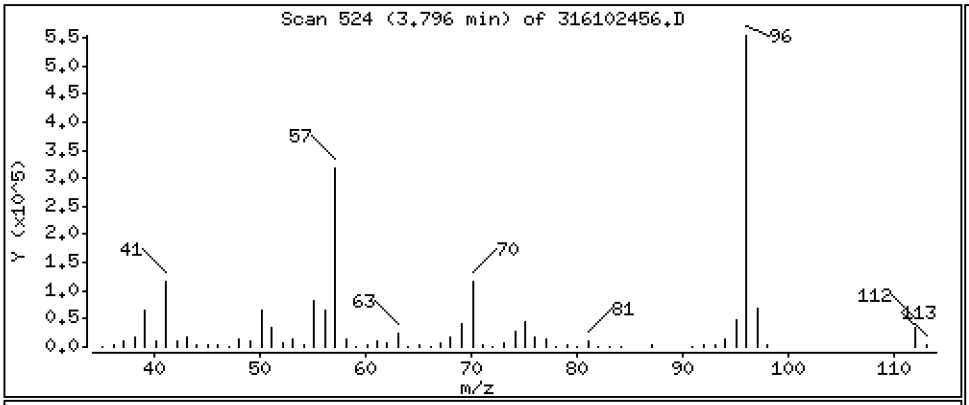
Client ID: Instrument: ms03.i

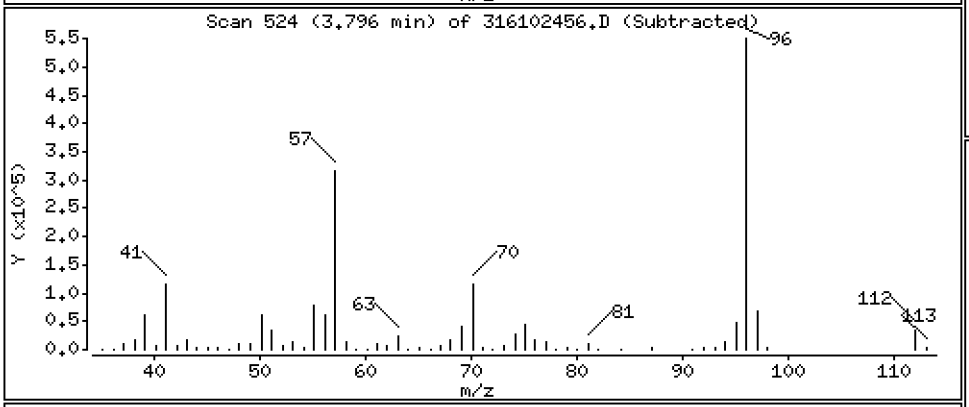
Sample Info: 1236;;1;1;3;;;

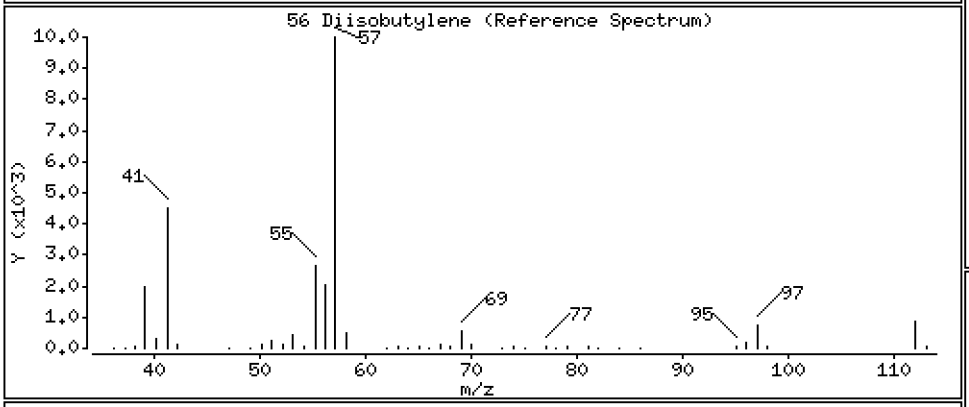
Purge Volume: 5.0 Operator: CJG

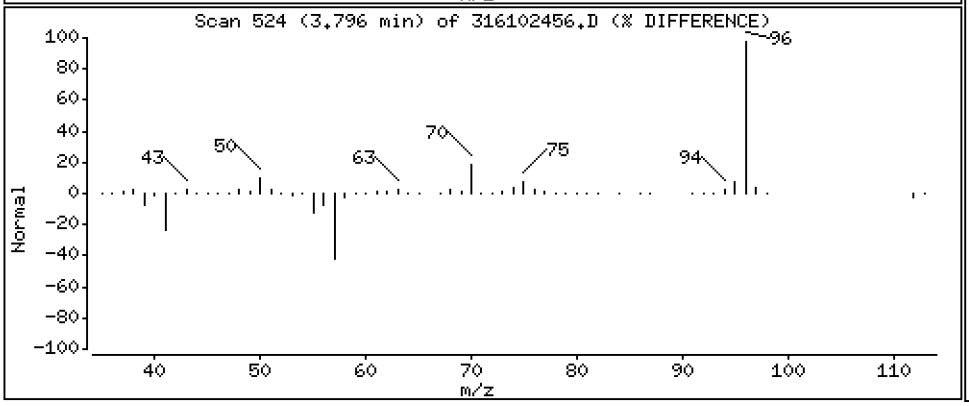
Column phase: DB-VRX Column diameter: 0.25

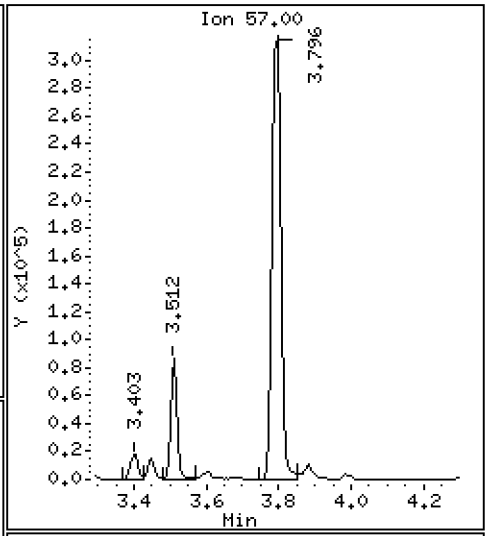
56 Diisobutylene Concentration: 23.2009 ug/L

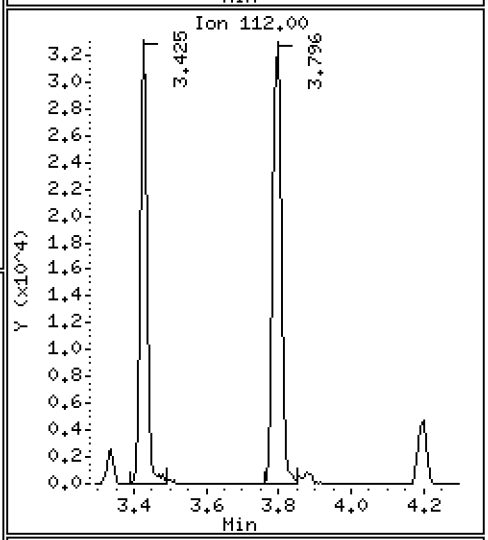


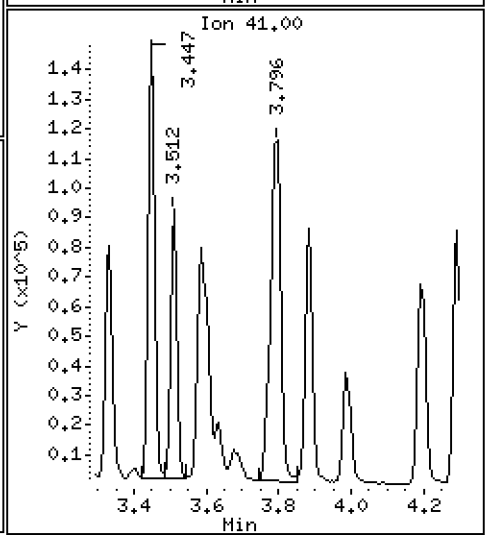












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 62

Date : 25-OCT-2016 00:30

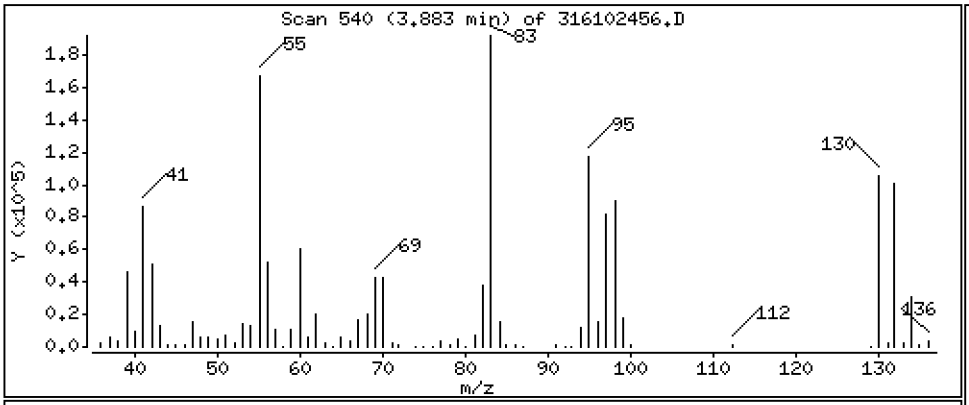
Client ID: Instrument: ms03.i

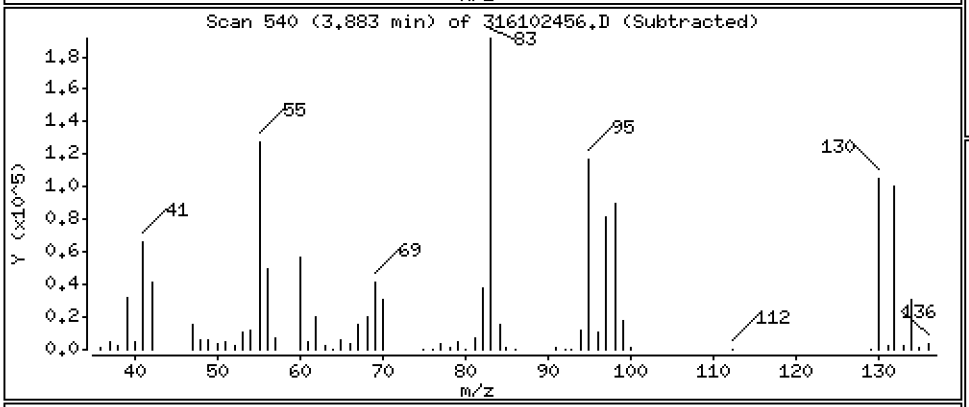
Sample Info: 1236;;1;1;3;;;

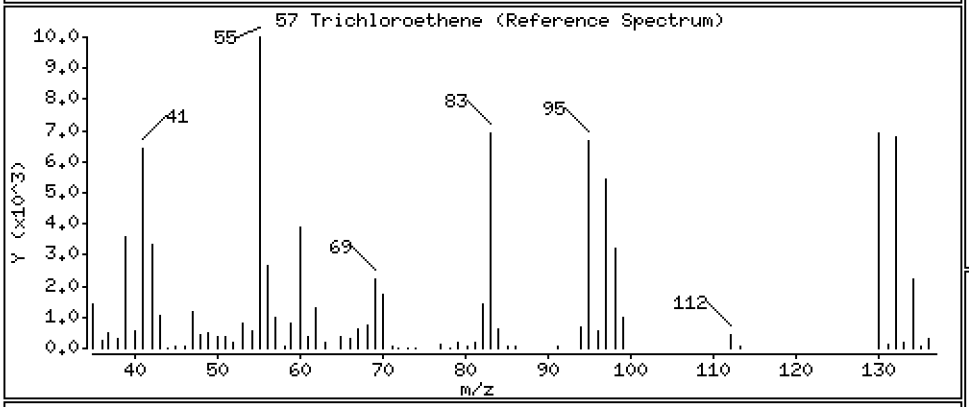
Purge Volume: 5.0 Operator: CJG

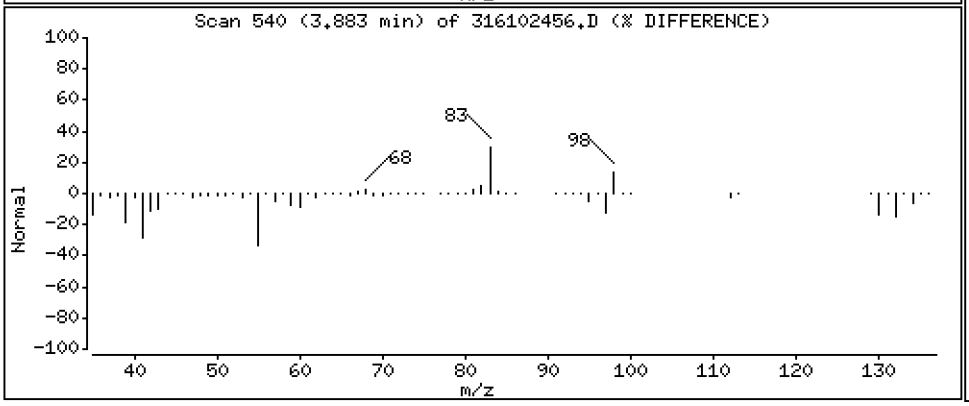
Column phase: DB-VRX Column diameter: 0.25

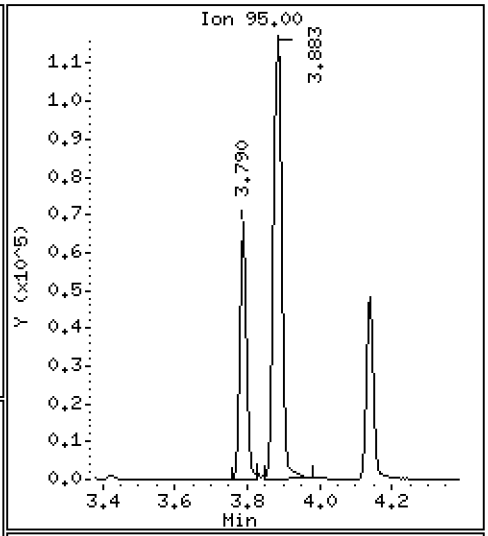
57 Trichloroethene Concentration: 21.4701 ug/L

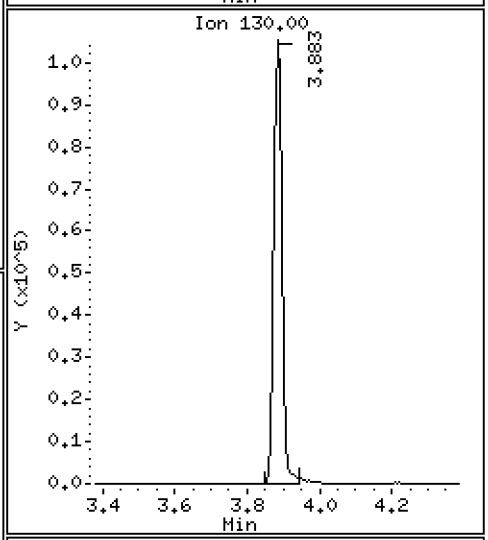


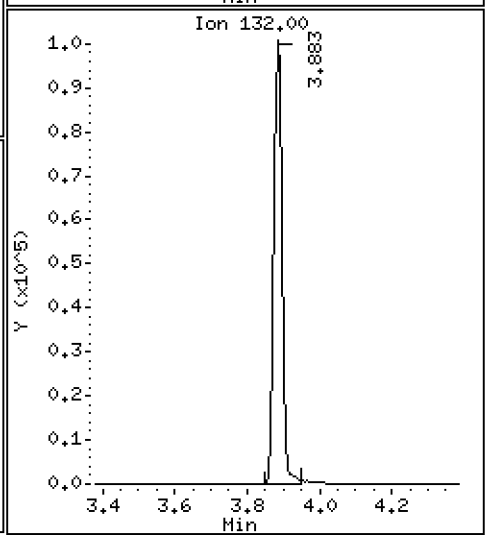












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 63

Date : 25-OCT-2016 00:30

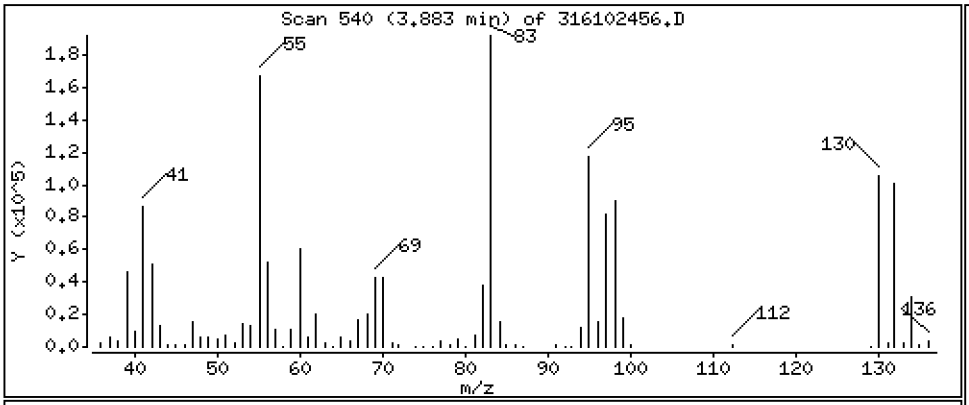
Client ID: Instrument: ms03.i

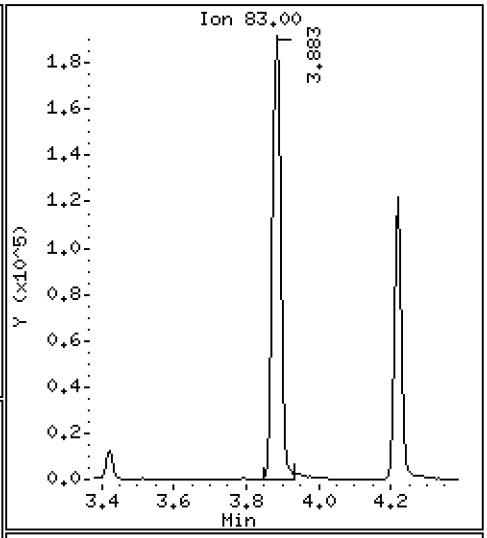
Sample Info: 1236;;1;1;3;;;

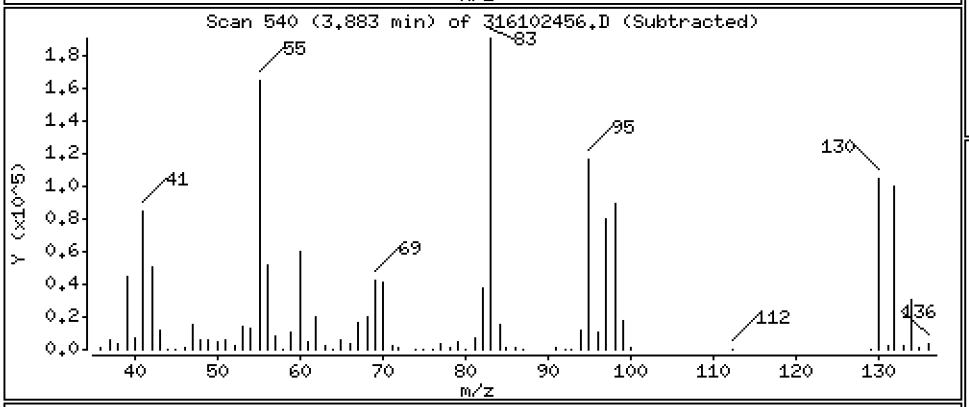
Purge Volume: 5.0 Operator: CJG

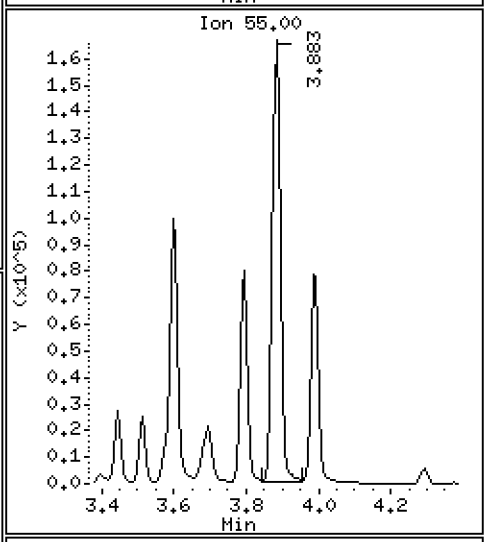
Column phase: DB-VRX Column diameter: 0.25

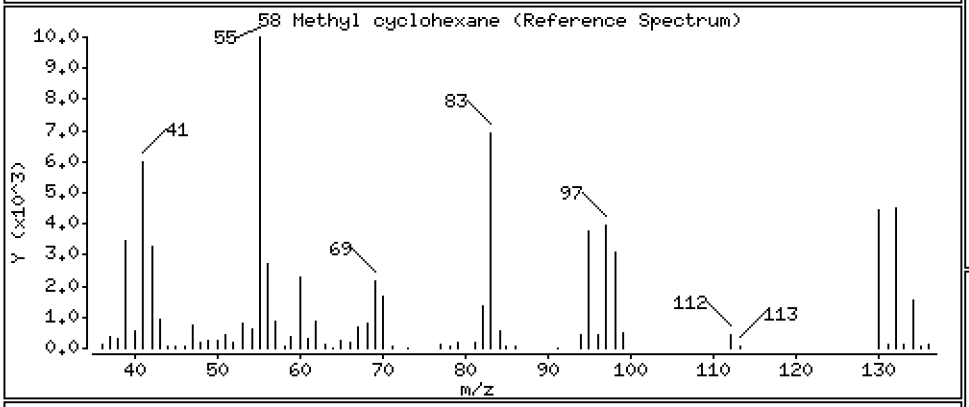
58 Methyl cyclohexane Concentration: 23.2785 ug/L

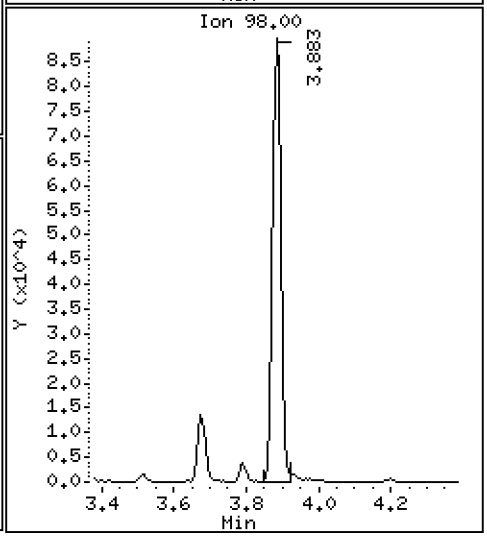


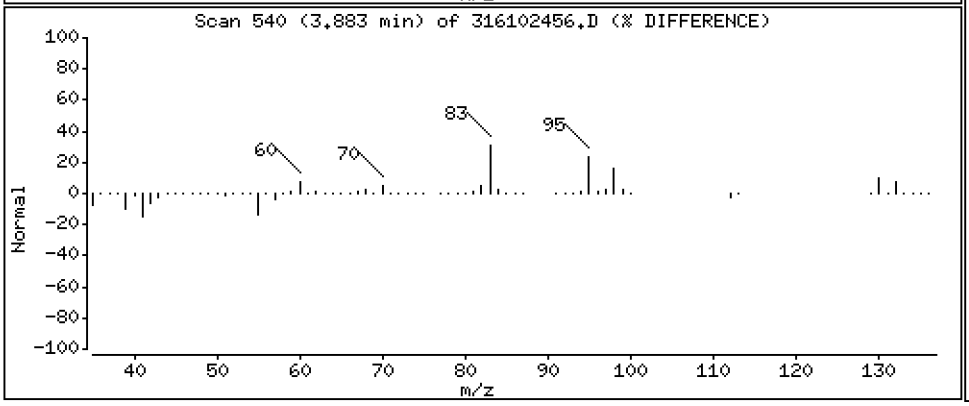












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 64

Date : 25-OCT-2016 00:30

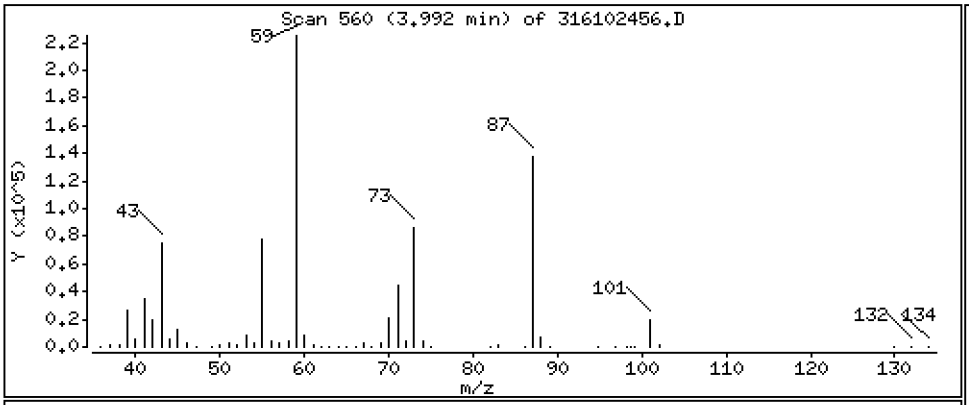
Client ID: Instrument: ms03.i

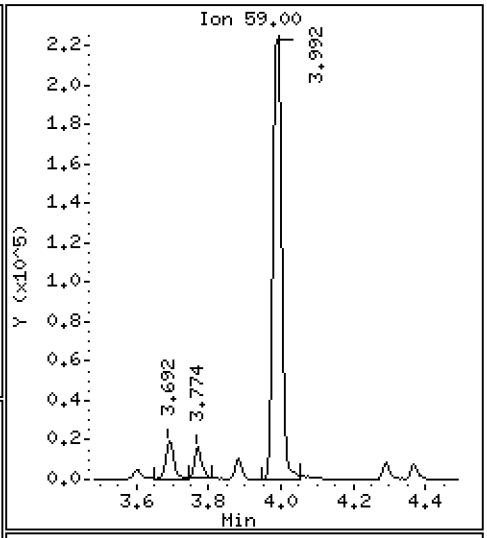
Sample Info: 1236;;1;1;3;;;

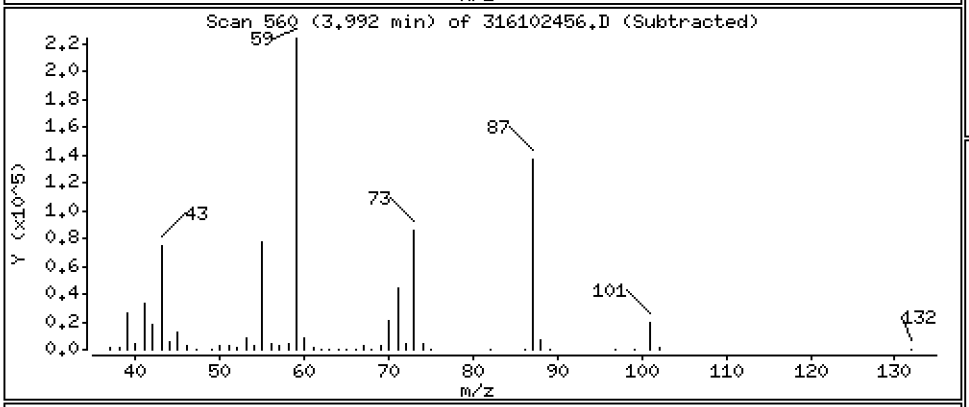
Purge Volume: 5.0 Operator: CJG

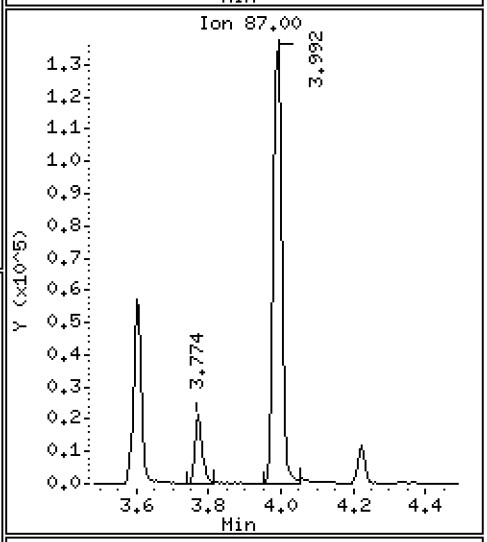
Column phase: DB-VRX Column diameter: 0.25

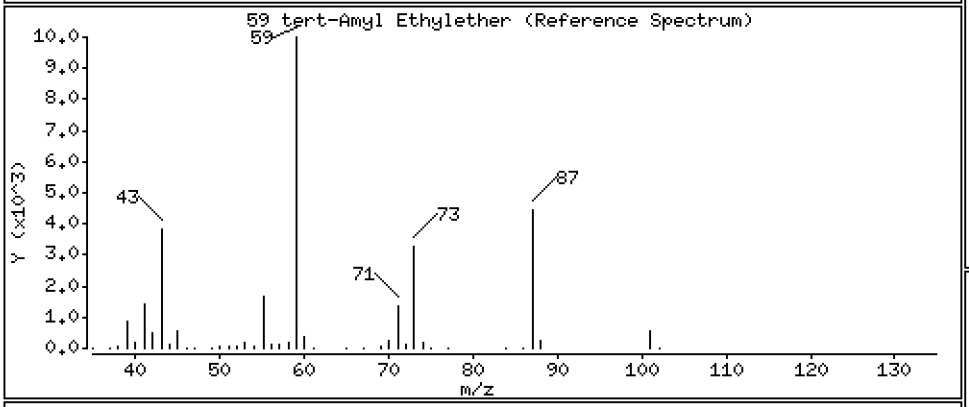
59 tert-Amyl Ethylether Concentration: 18.5741 ug/L

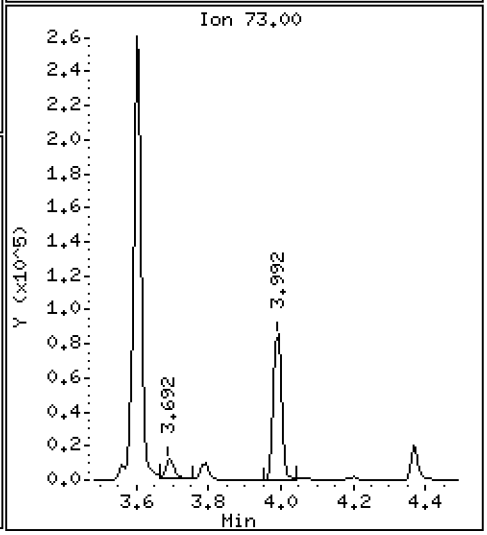


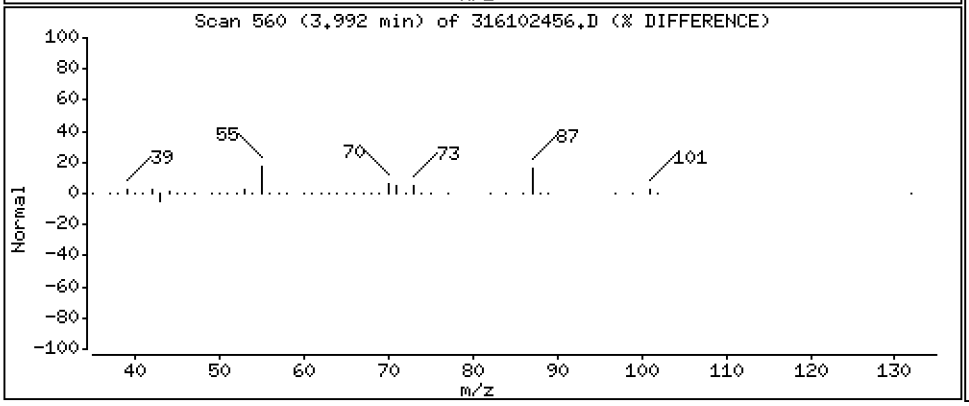












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 65

Date : 25-OCT-2016 00:30

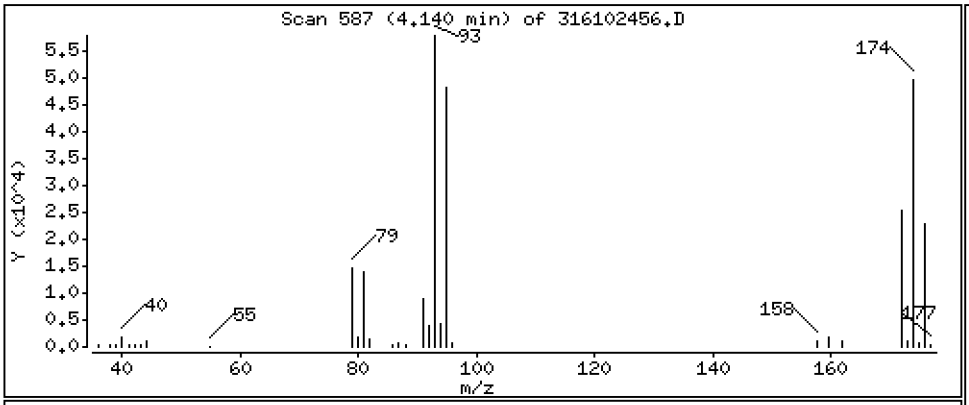
Client ID: Instrument: ms03.i

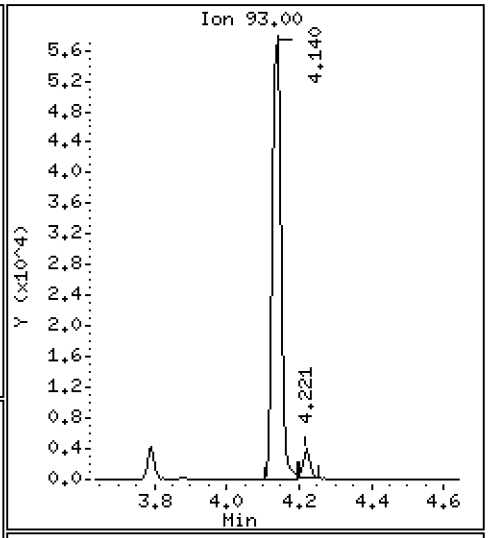
Sample Info: 1236;;1;1;3;;;

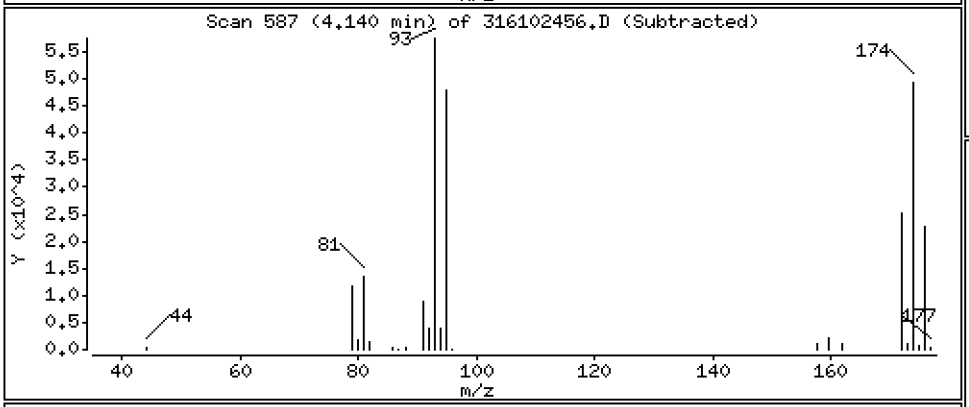
Purge Volume: 5.0 Operator: CJG

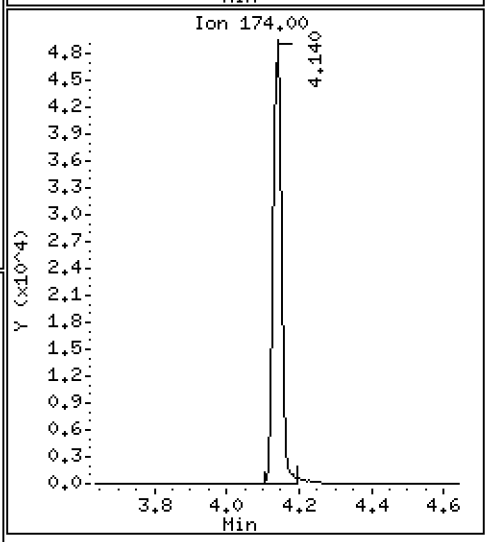
Column phase: DB-VRX Column diameter: 0.25

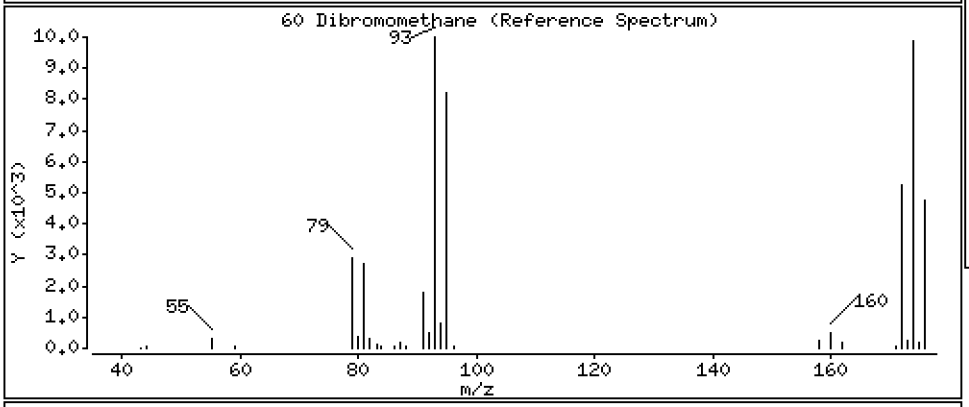
60 Dibromomethane Concentration: 19.4582 ug/L

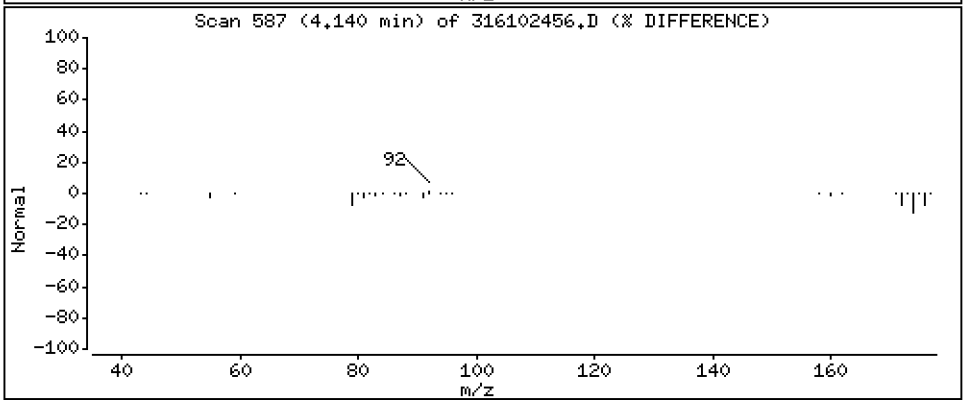












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 66

Date : 25-OCT-2016 00:30

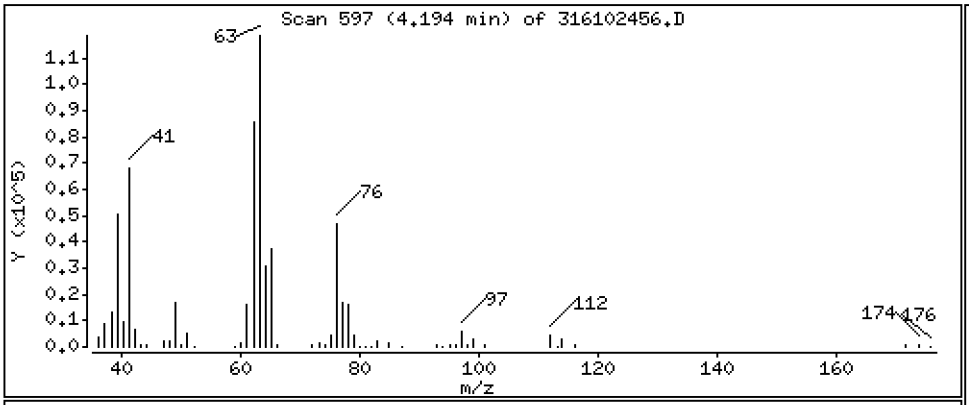
Client ID: Instrument: ms03.i

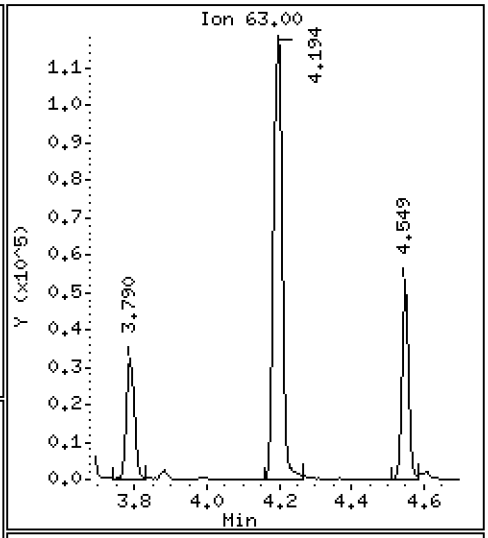
Sample Info: 1236;;1;1;3;;;

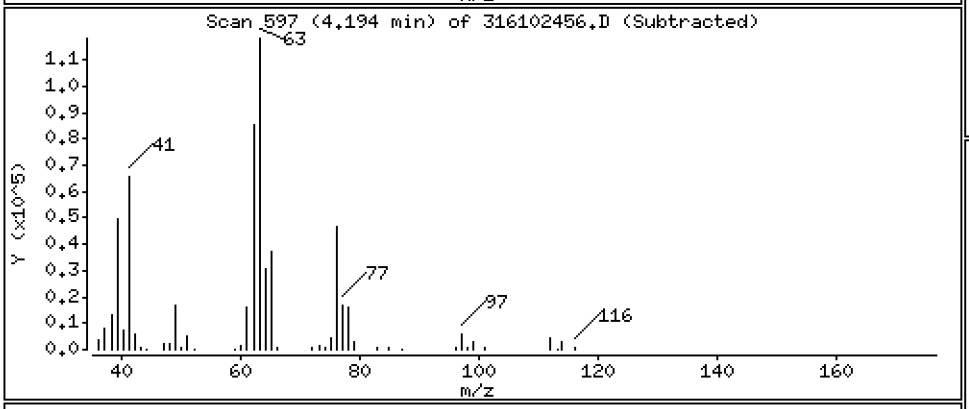
Purge Volume: 5.0 Operator: CJG

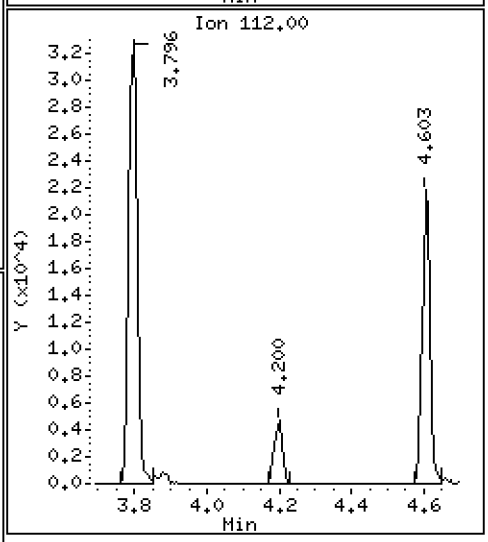
Column phase: DB-VRX Column diameter: 0.25

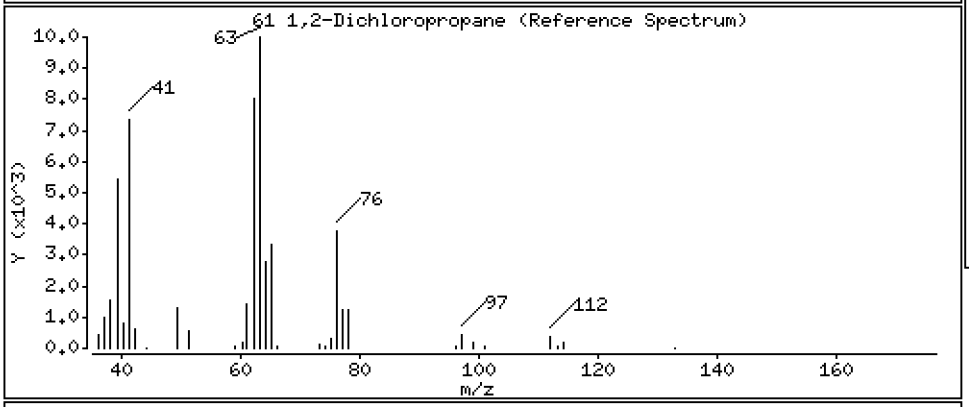
61 1,2-Dichloropropane Concentration: 19.7243 ug/L

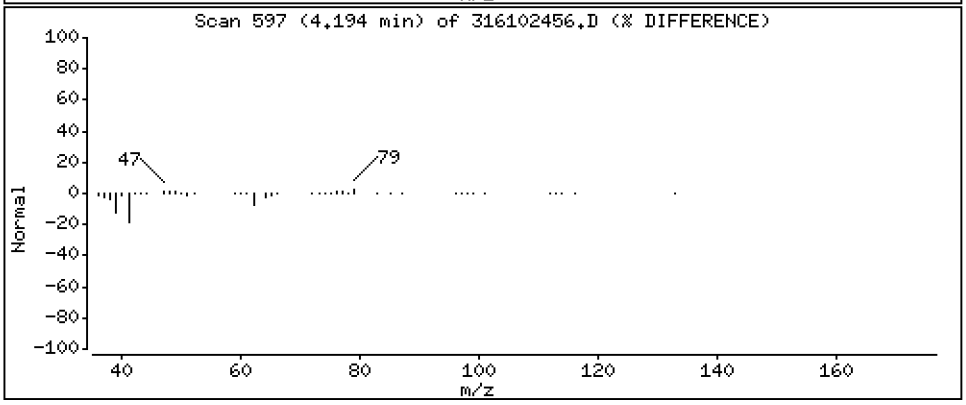












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 67

Date : 25-OCT-2016 00:30

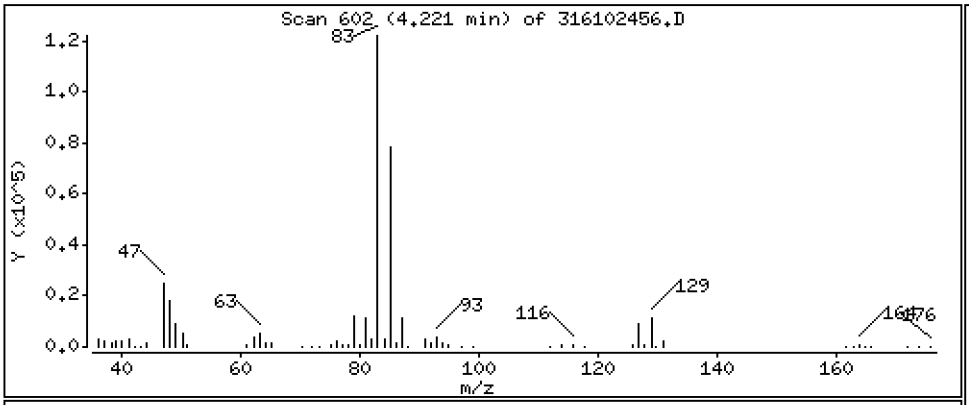
Client ID: Instrument: ms03.i

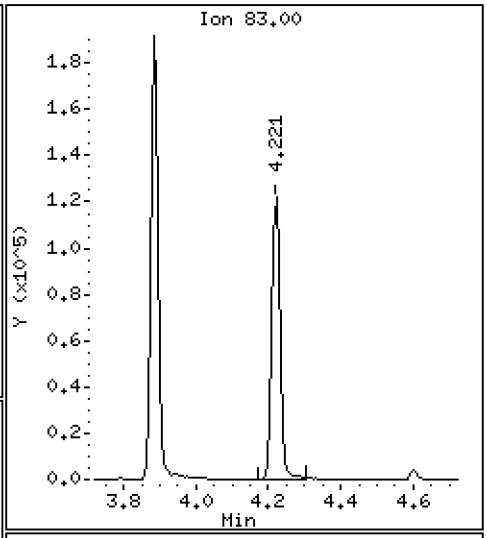
Sample Info: 1236;;1;1;3;;;

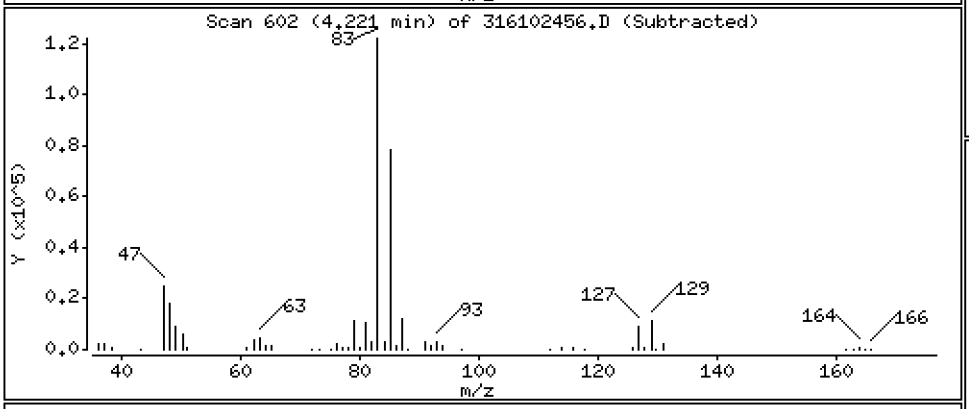
Purge Volume: 5.0 Operator: CJG

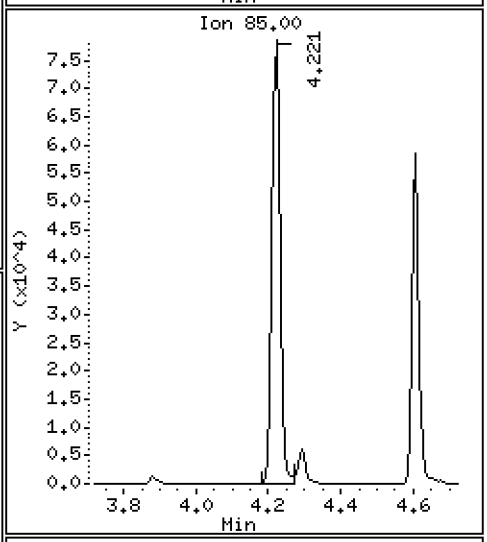
Column phase: DB-VRX Column diameter: 0.25

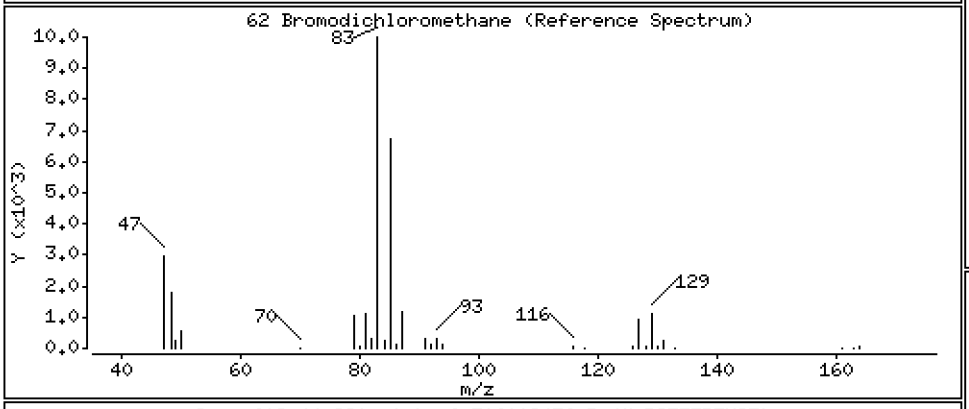
62 Bromodichloromethane Concentration: 18.7536 ug/L

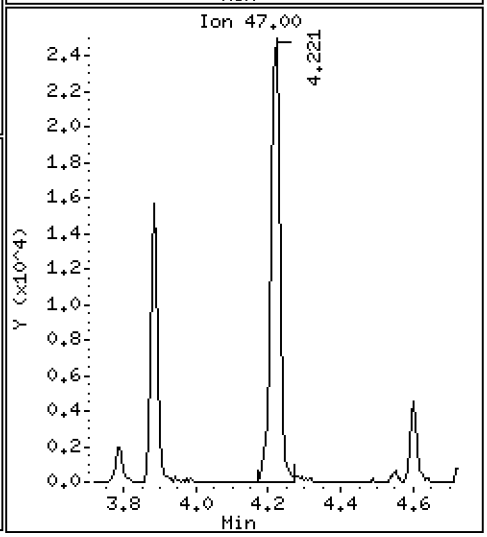


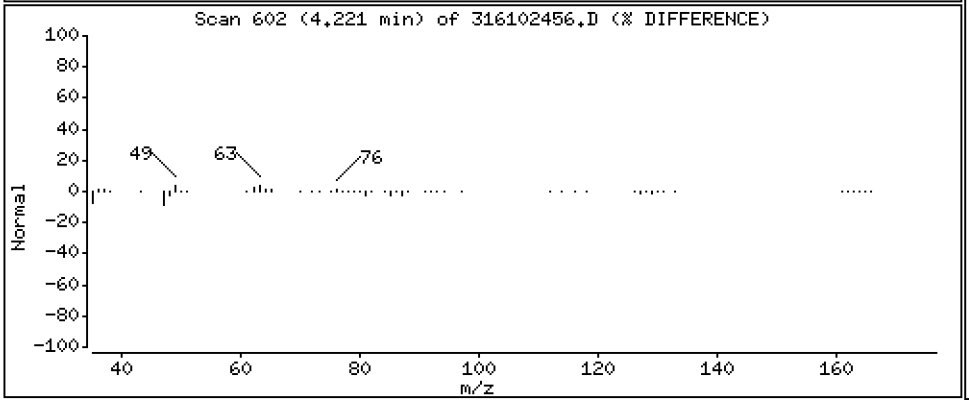












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 68

Date : 25-OCT-2016 00:30

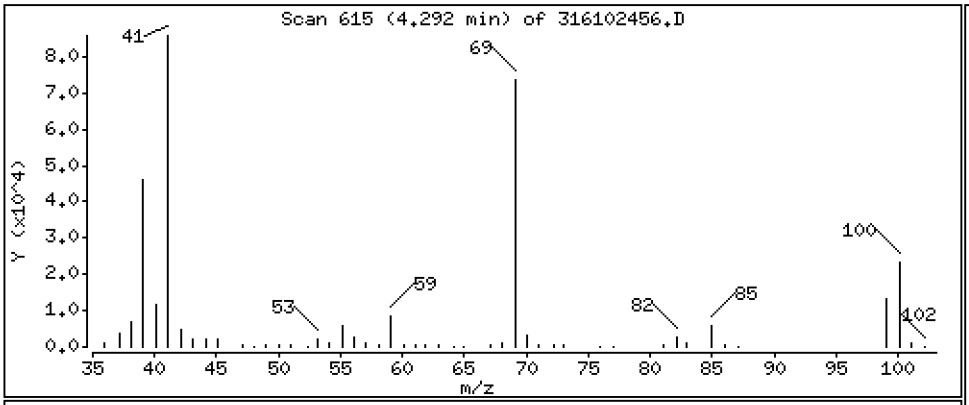
Client ID: Instrument: ms03.i

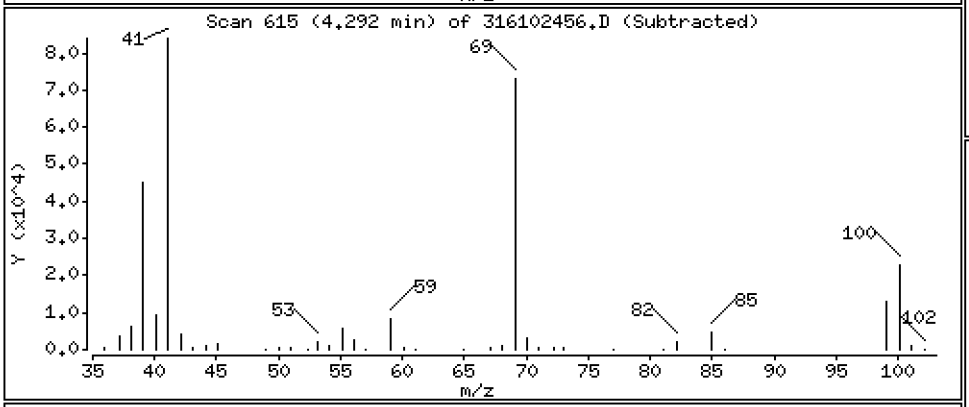
Sample Info: 1236;;1;1;3;;;

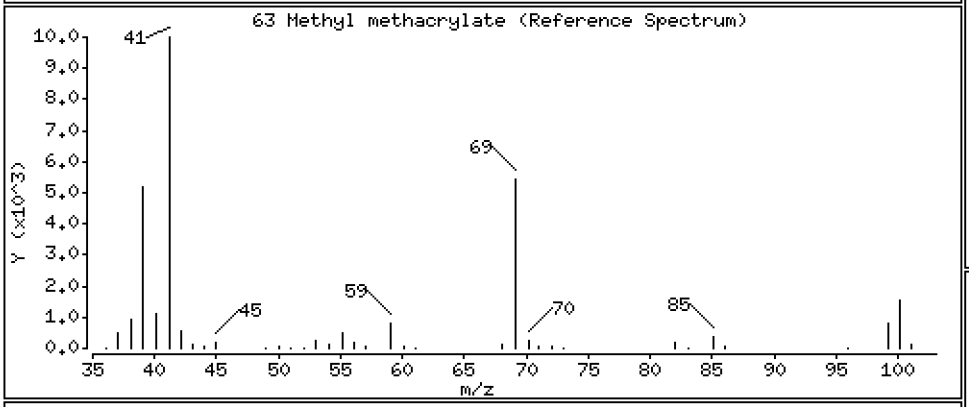
Purge Volume: 5.0 Operator: CJG

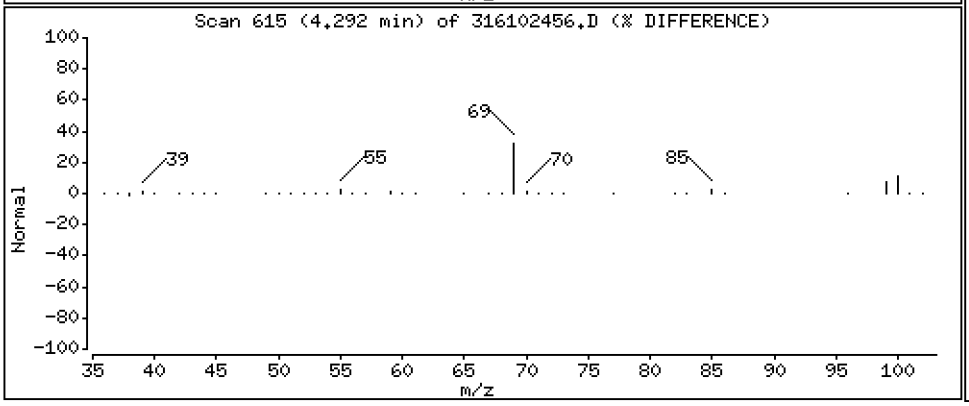
Column phase: DB-VRX Column diameter: 0.25

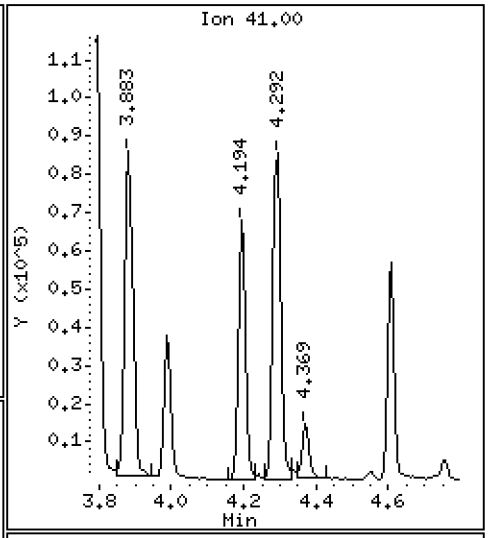
63 Methyl methacrylate Concentration: 17.4378 ug/L

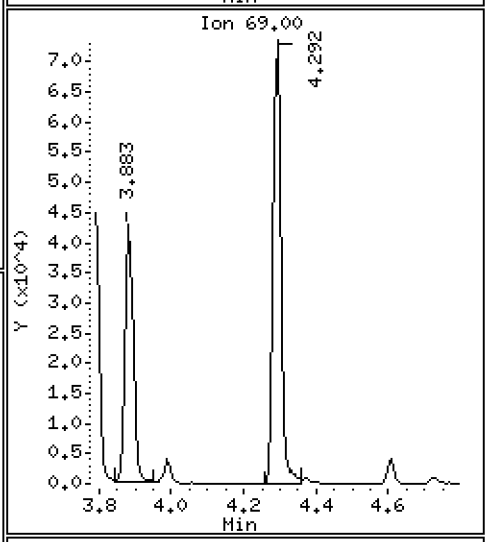


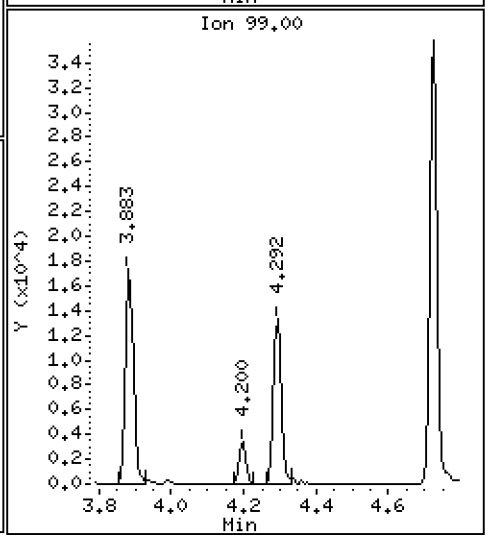












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 69

Date : 25-OCT-2016 00:30

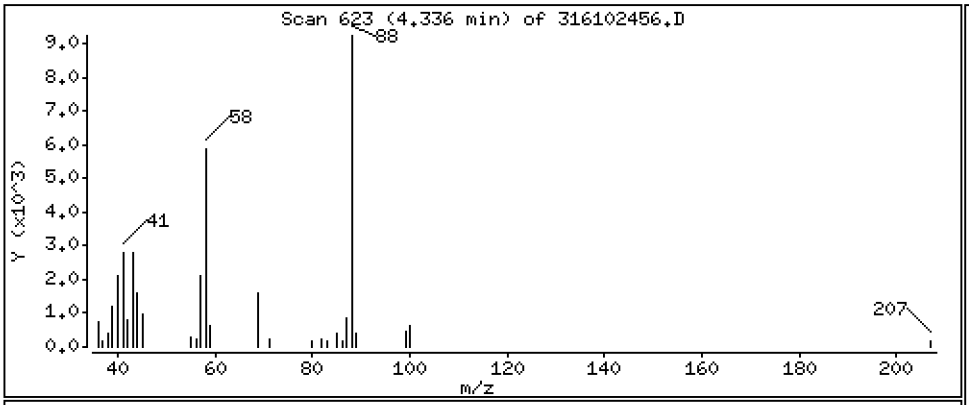
Client ID: Instrument: ms03.i

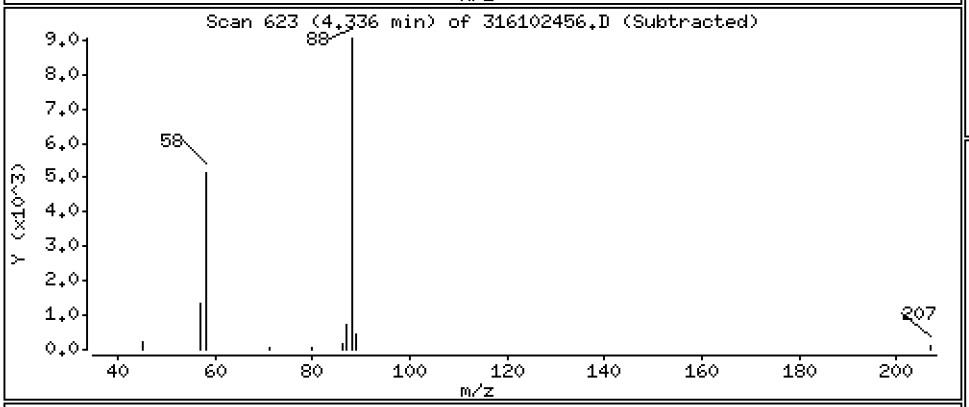
Sample Info: 1236;;1;1;3;;;

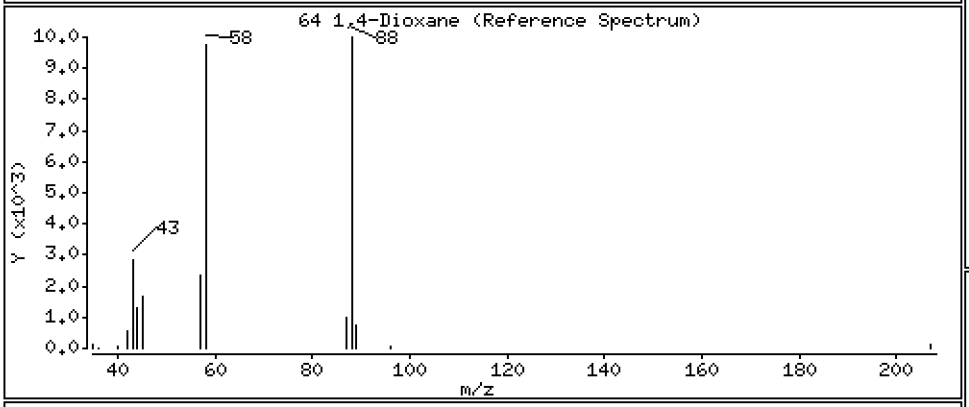
Purge Volume: 5.0 Operator: CJG

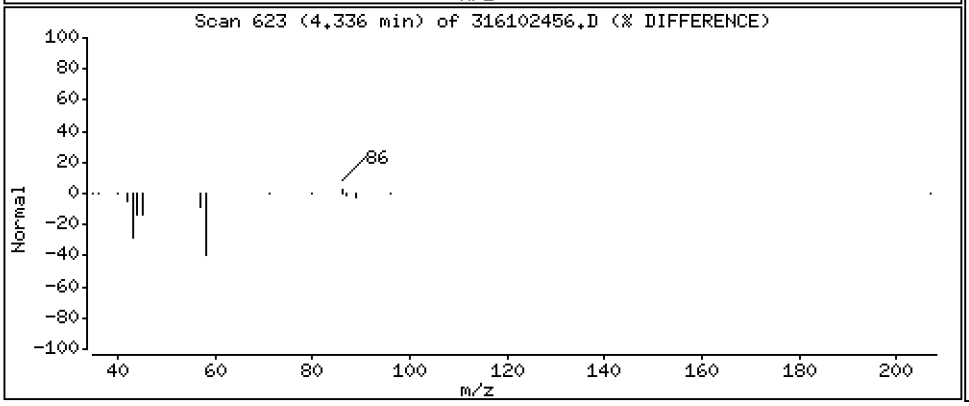
Column phase: DB-VRX Column diameter: 0.25

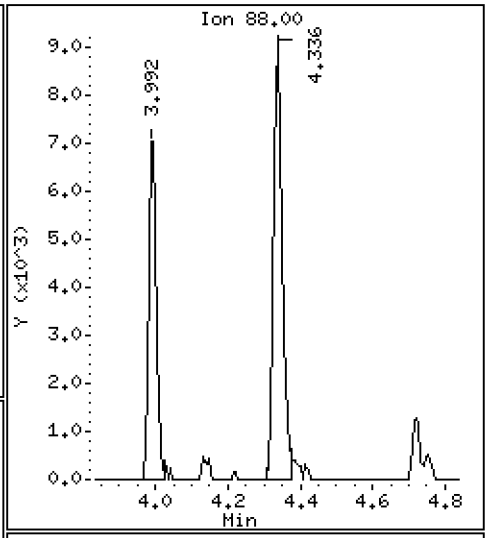
64 1,4-Dioxane Concentration: 418.353 ug/L

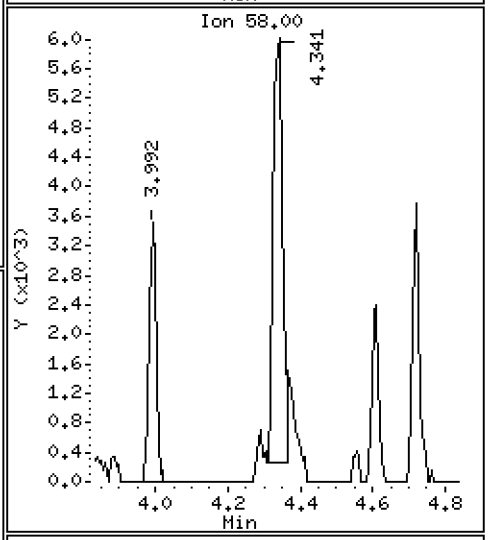


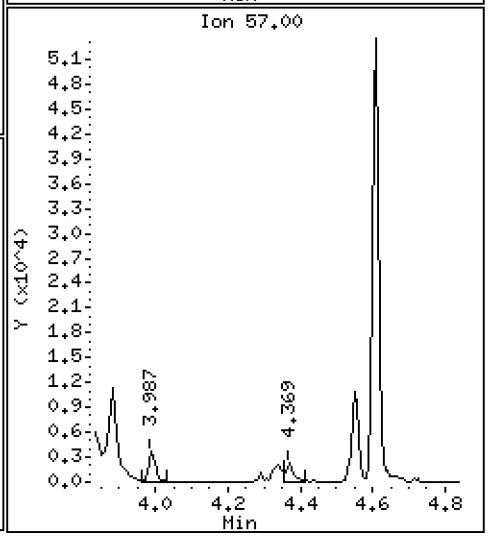












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 70

Date : 25-OCT-2016 00:30

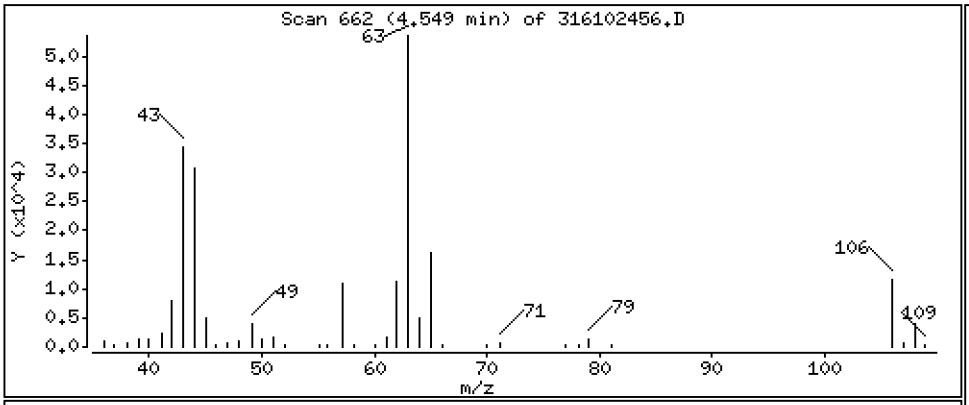
Client ID: Instrument: ms03.i

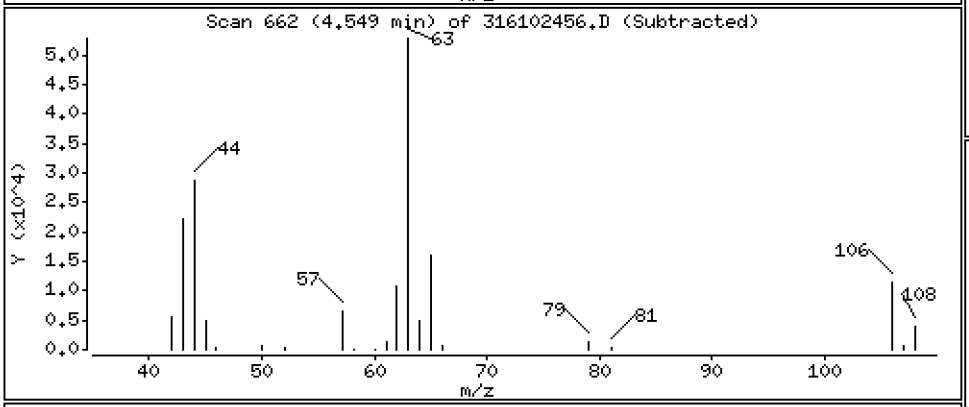
Sample Info: 1236;;1;1;3;;;

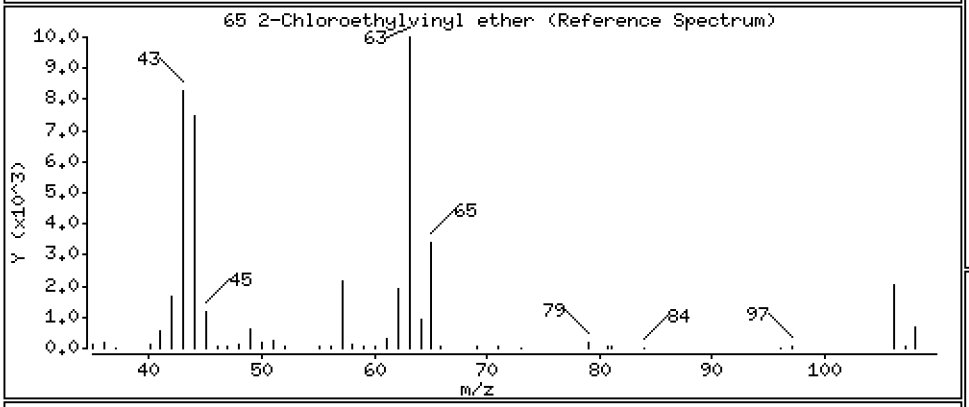
Purge Volume: 5.0 Operator: CJG

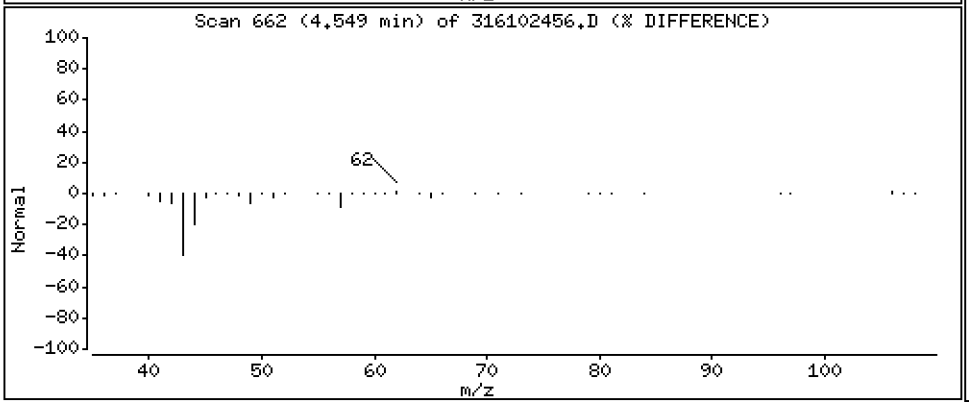
Column phase: DB-VRX Column diameter: 0.25

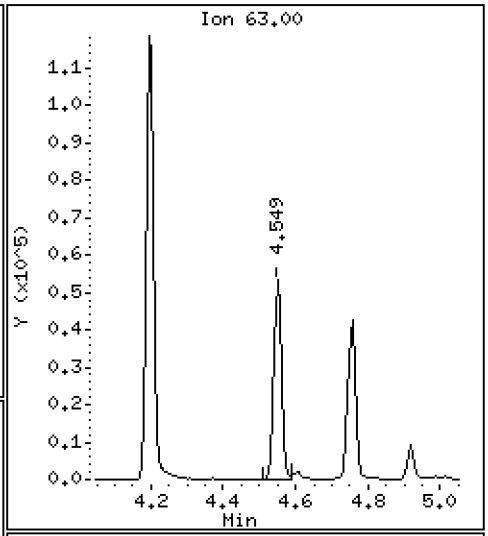
65 2-Chloroethylvinyl ether Concentration: 17.3366 ug/L

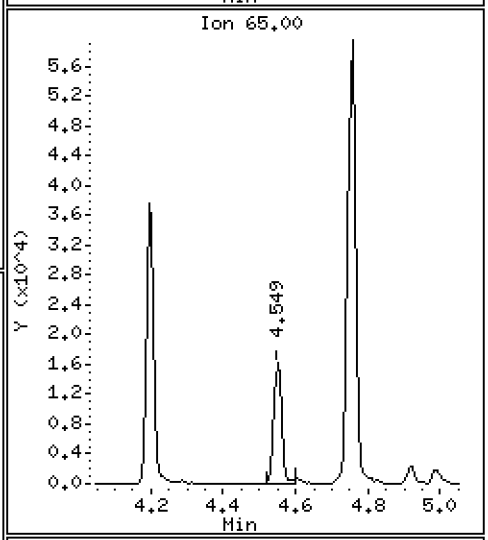


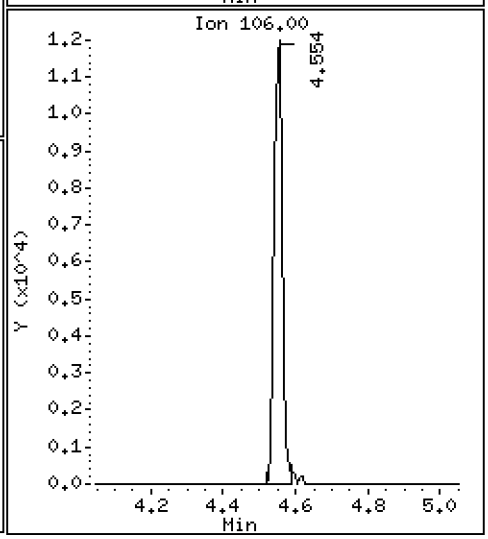












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 71

Date : 25-OCT-2016 00:30

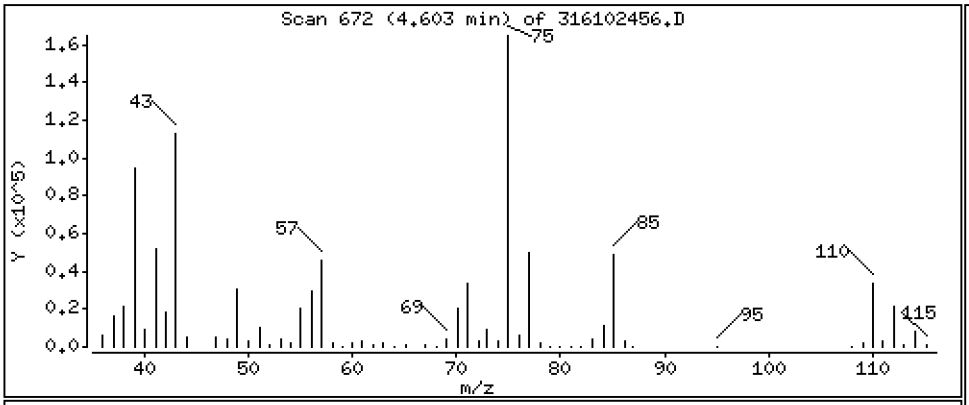
Client ID: Instrument: ms03.i

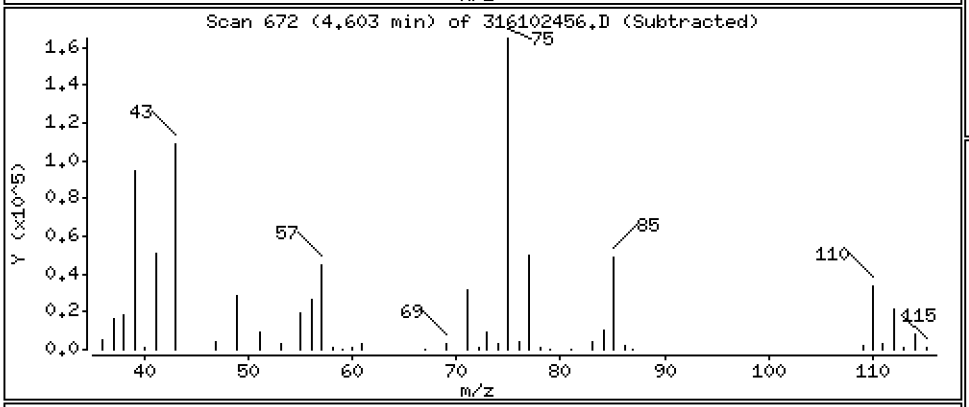
Sample Info: 1236;;1;1;3;;;

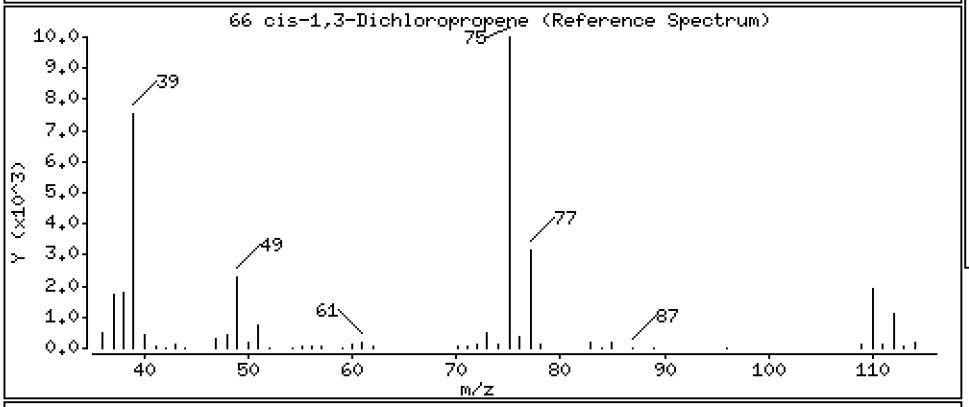
Purge Volume: 5.0 Operator: CJG

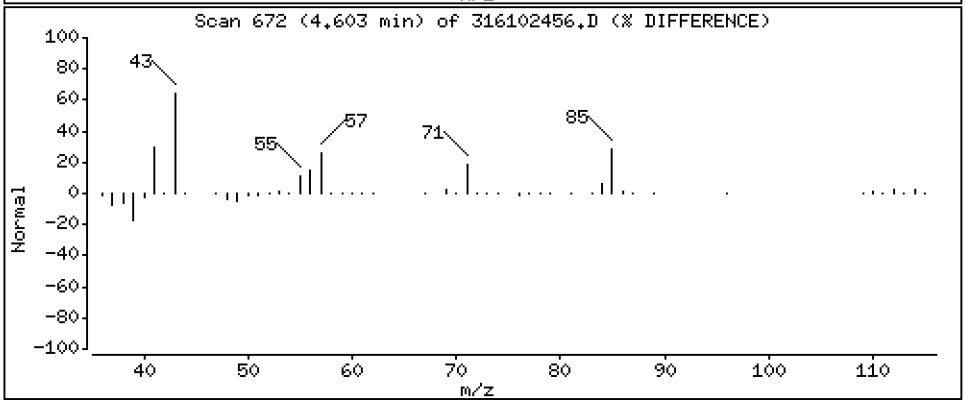
Column phase: DB-VRX Column diameter: 0.25

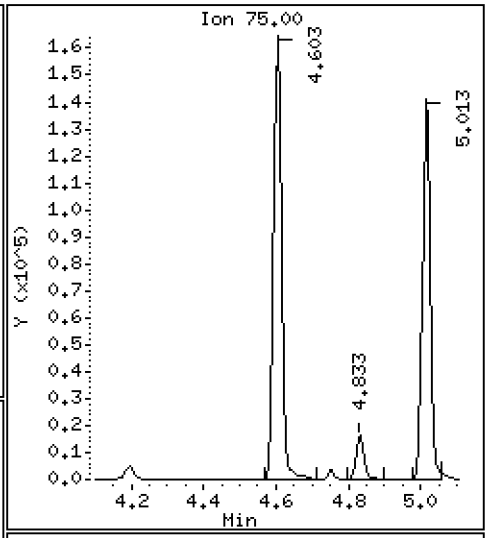
66 cis-1,3-Dichloropropene Concentration: 18.6362 ug/L

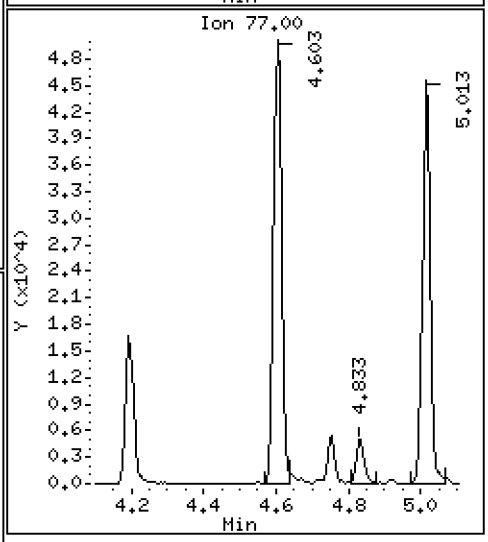












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 72

Date : 25-OCT-2016 00:30

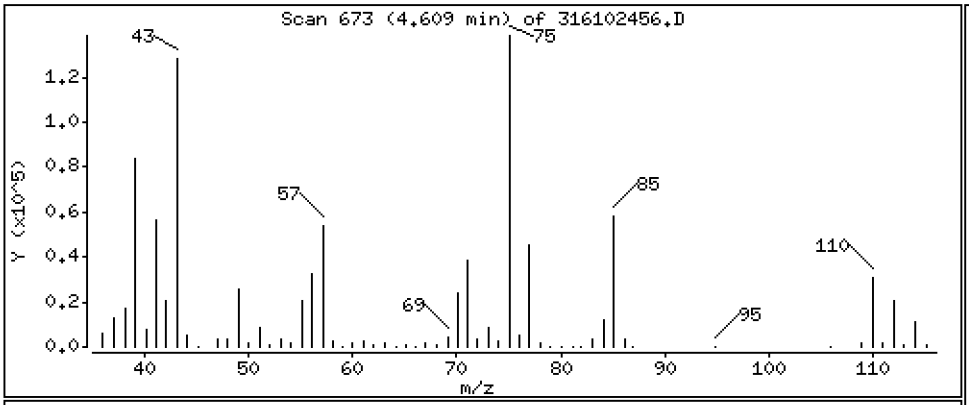
Client ID: Instrument: ms03.i

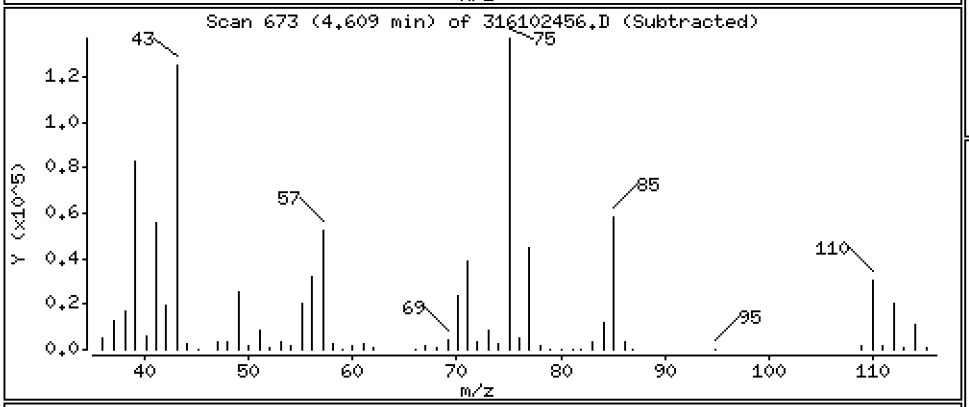
Sample Info: 1236;;1;1;3;;;

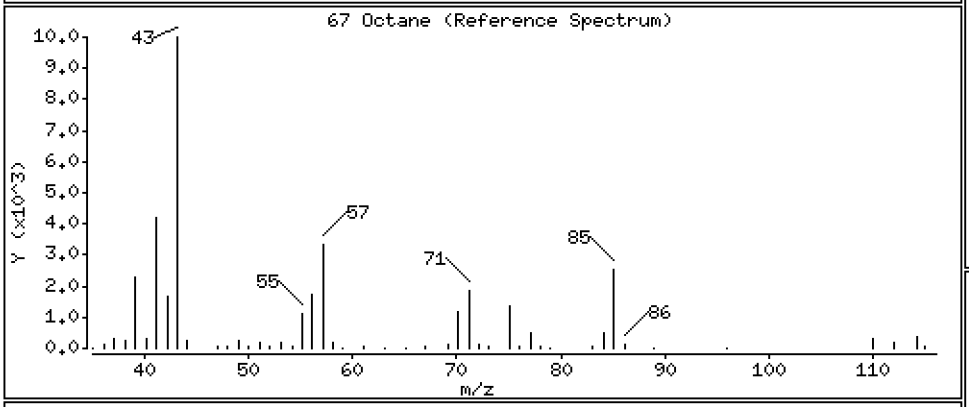
Purge Volume: 5.0 Operator: CJG

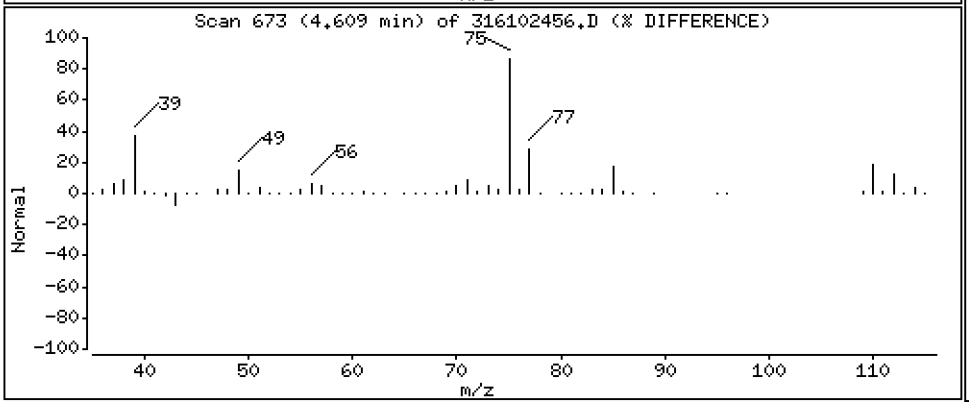
Column phase: DB-VRX Column diameter: 0.25

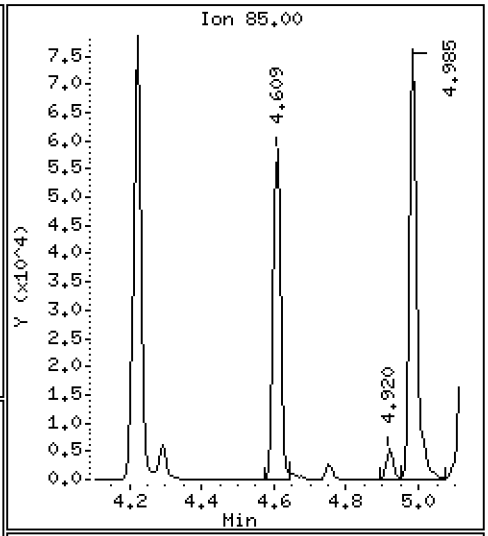
67 Octane Concentration: 21.9779 ug/L

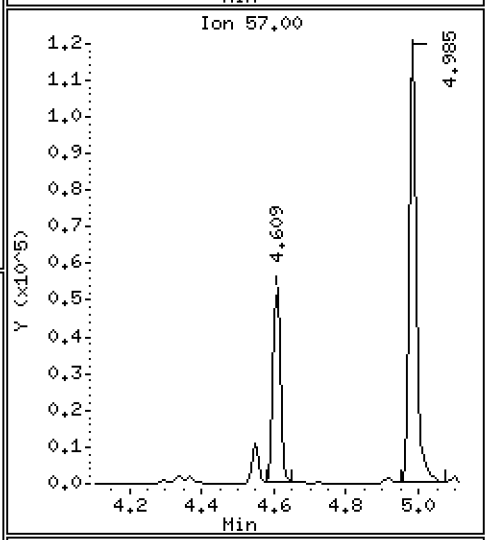


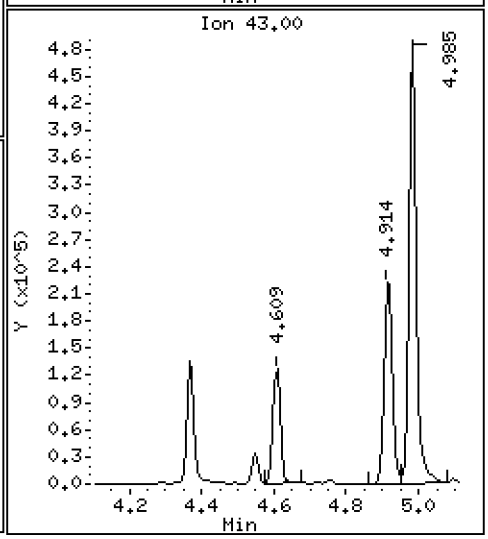












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 73

Date : 25-OCT-2016 00:30

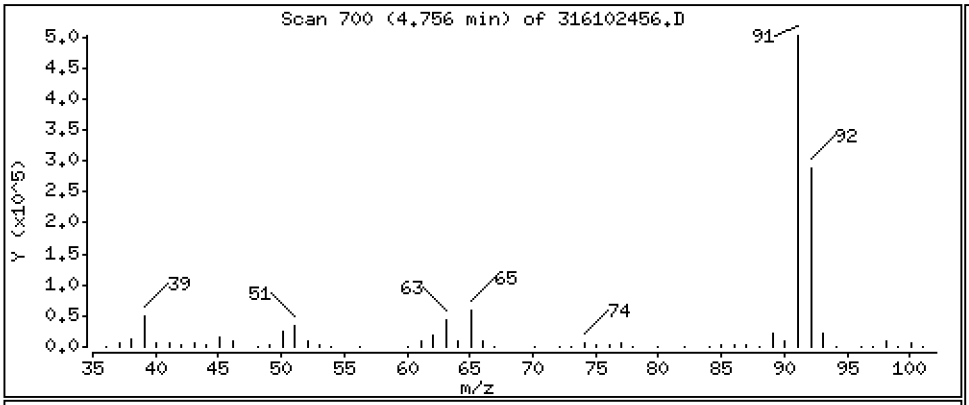
Client ID: Instrument: ms03.i

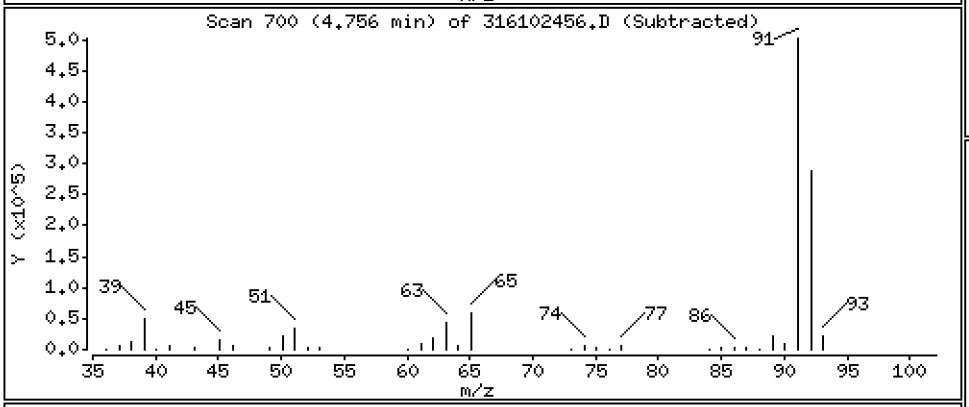
Sample Info: 1236;;1;1;3;;;

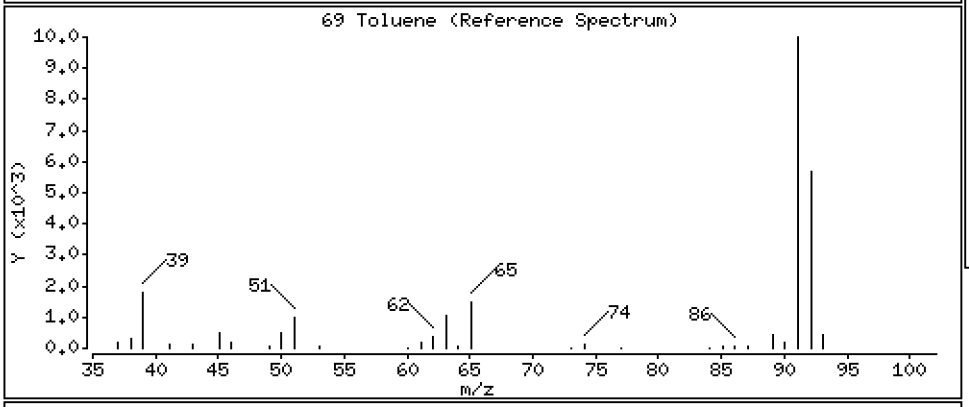
Purge Volume: 5.0 Operator: CJG

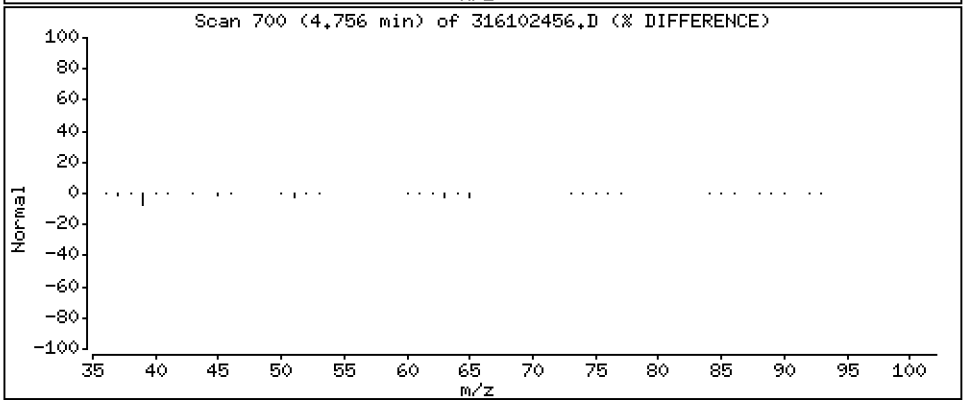
Column phase: DB-VRX Column diameter: 0.25

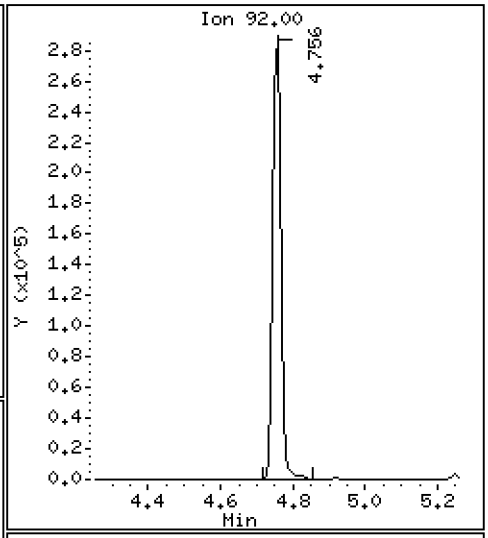
69 Toluene Concentration: 21.1753 ug/L

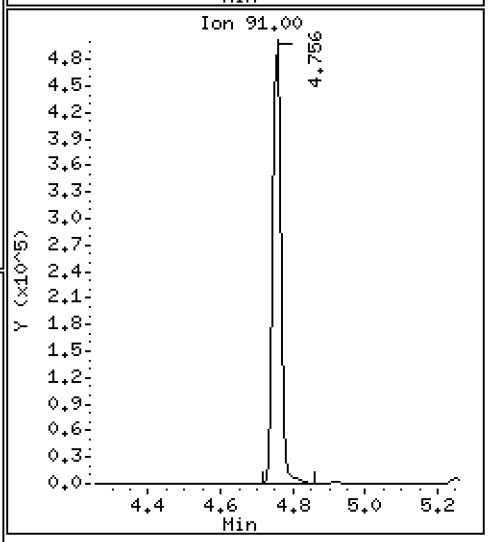












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 74

Date : 25-OCT-2016 00:30

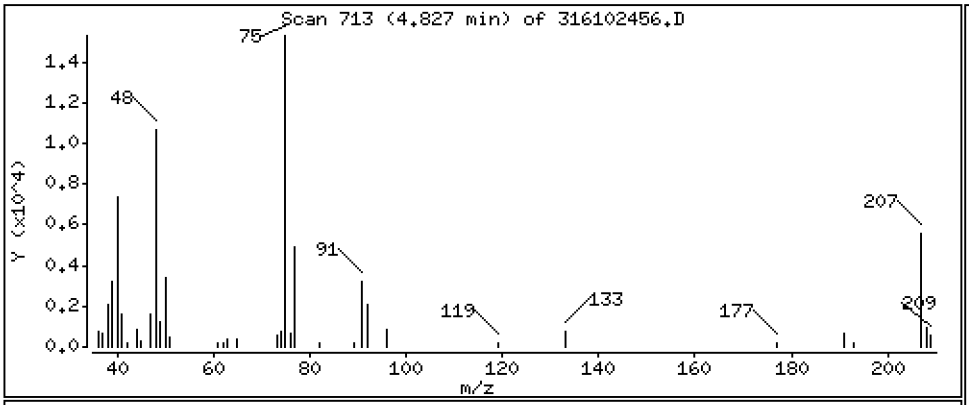
Client ID: Instrument: ms03.i

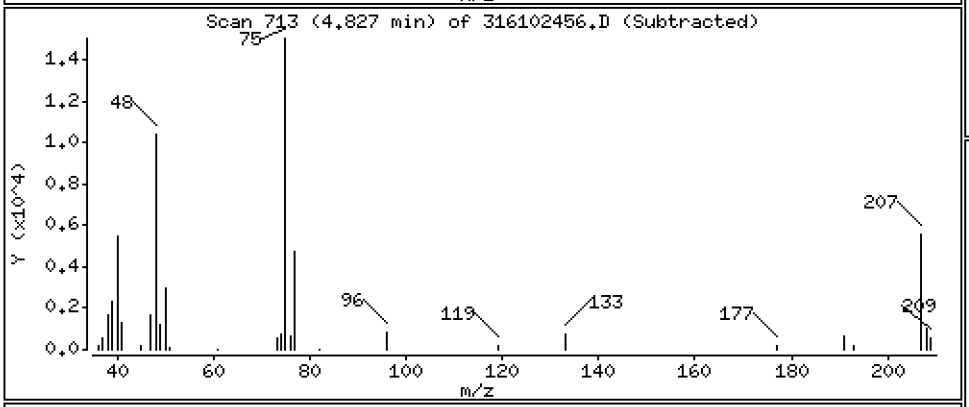
Sample Info: 1236;;1;1;3;;;

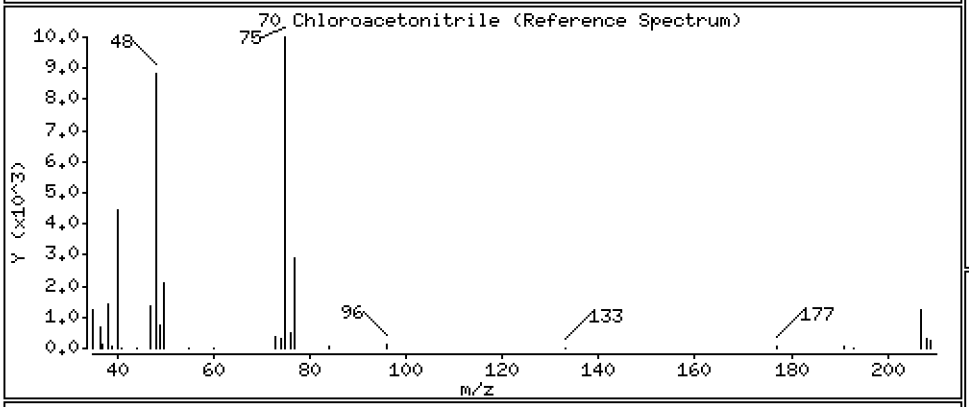
Purge Volume: 5.0 Operator: CJG

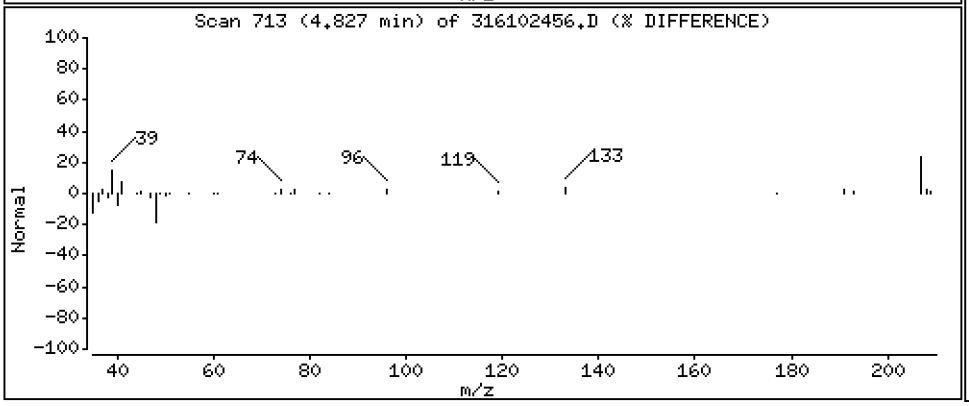
Column phase: DB-VRX Column diameter: 0.25

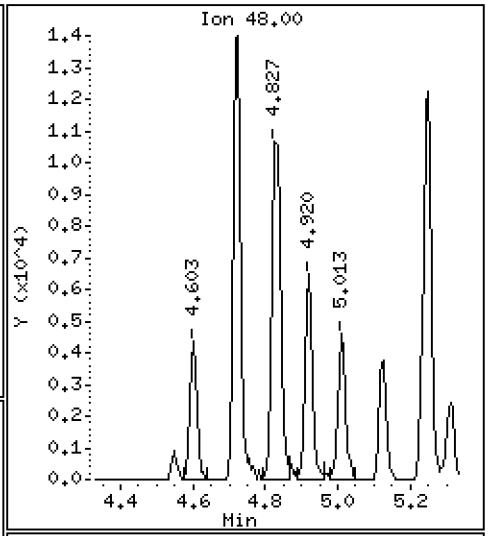
70 Chloroacetonitrile Concentration: 90.4287 ug/L

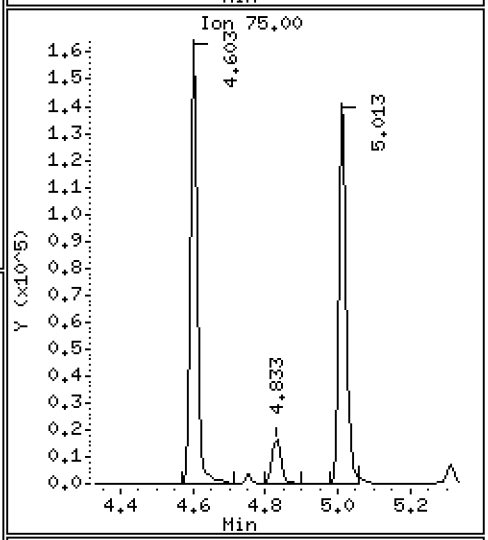


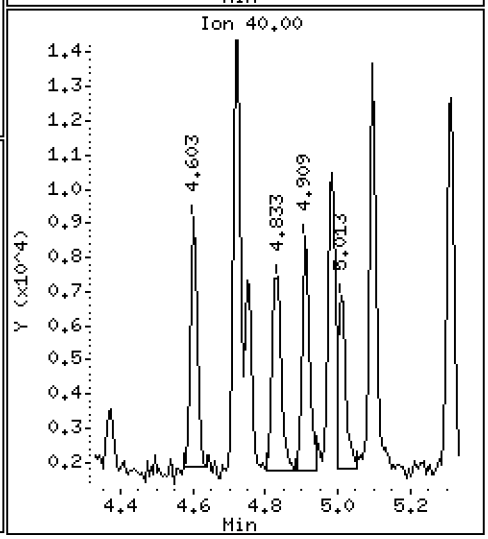












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 75

Date : 25-OCT-2016 00:30

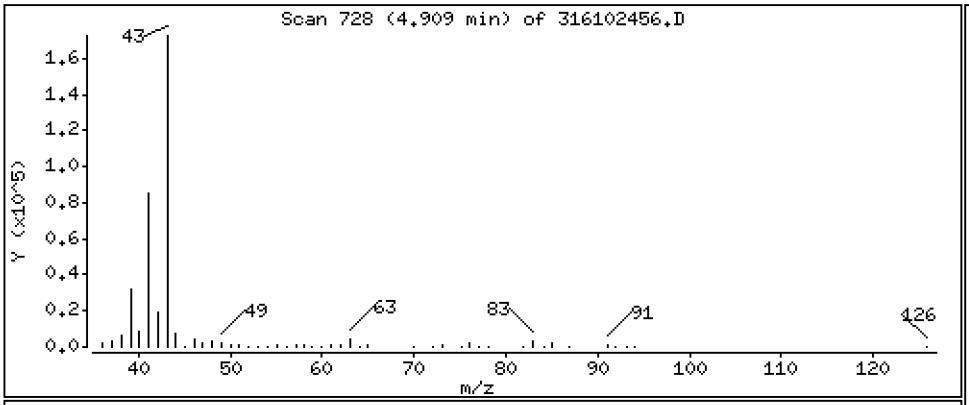
Client ID: Instrument: ms03.i

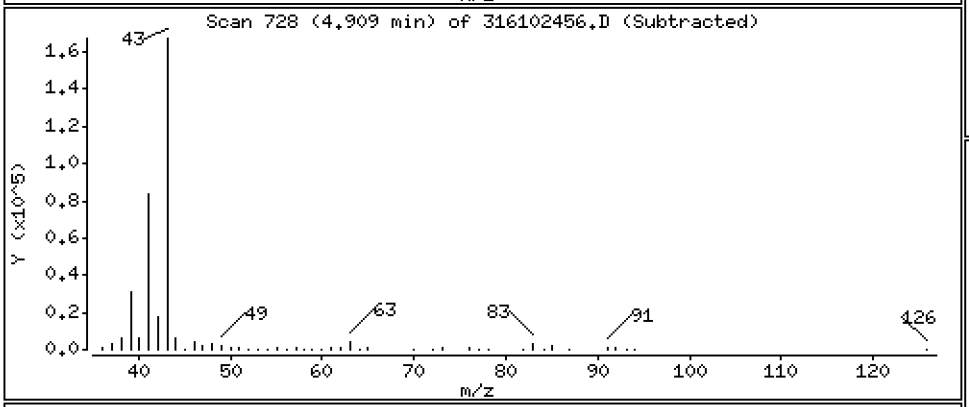
Sample Info: 1236;;1;1;3;;;

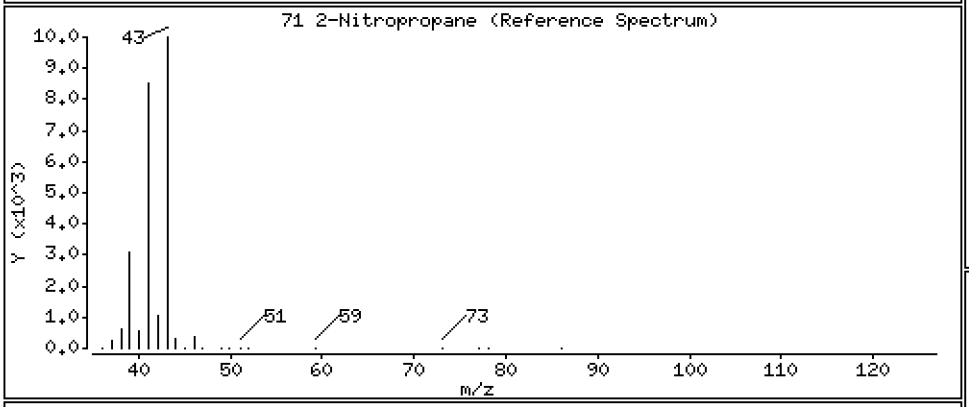
Purge Volume: 5.0 Operator: CJG

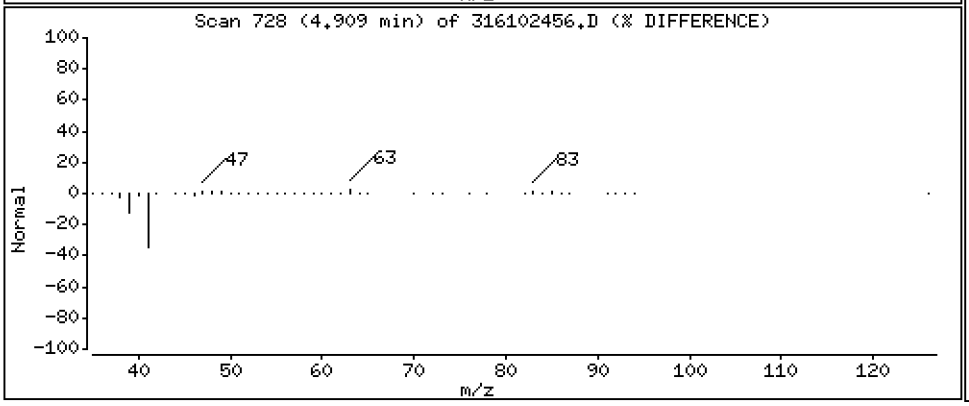
Column phase: DB-VRX Column diameter: 0.25

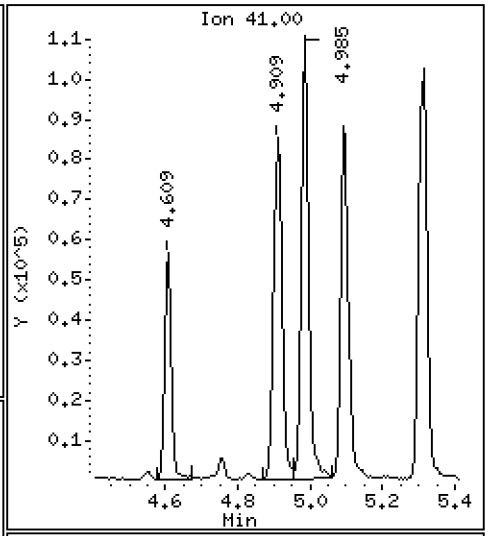
71 2-Nitropropane Concentration: 88.7300 ug/L

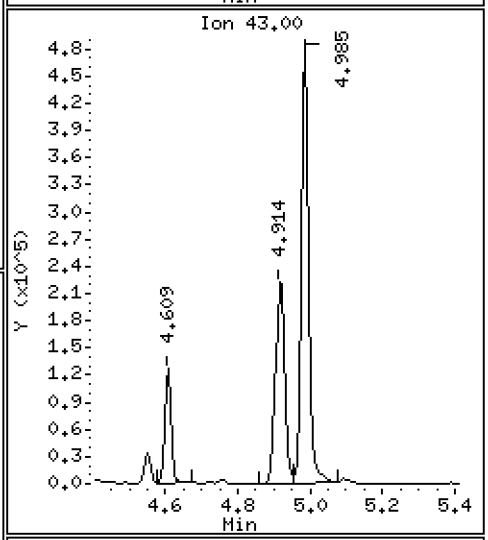


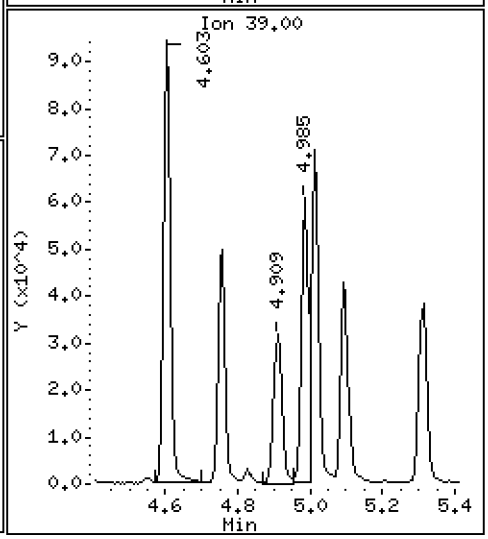












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 76

Date : 25-OCT-2016 00:30

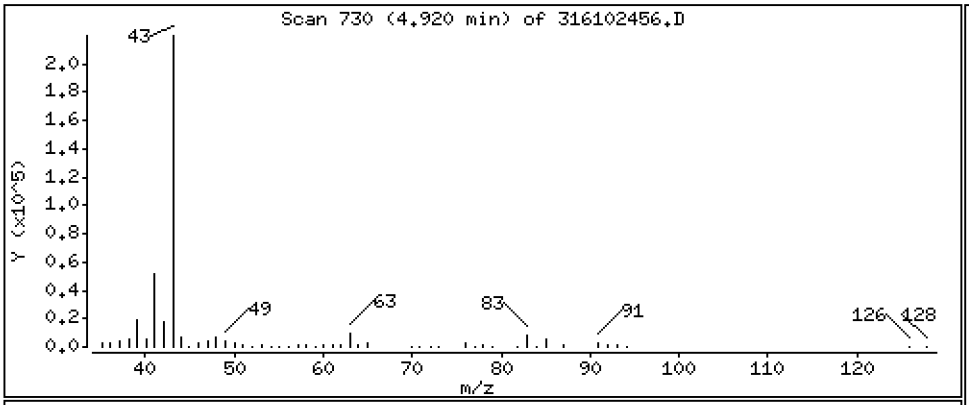
Client ID: Instrument: ms03.i

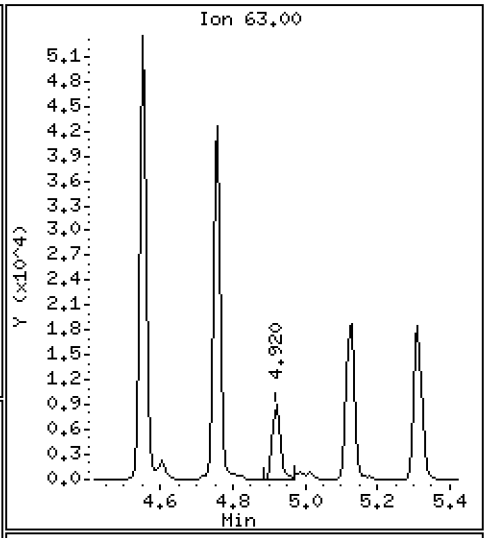
Sample Info: 1236;;1;1;3;;;

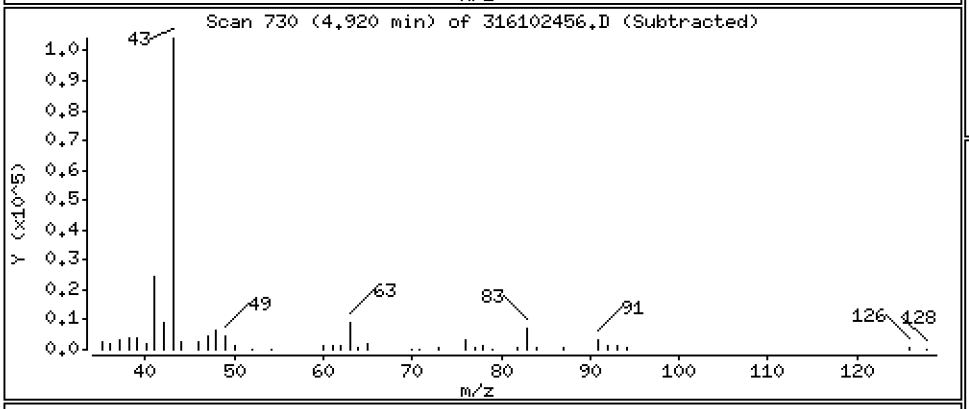
Purge Volume: 5.0 Operator: CJG

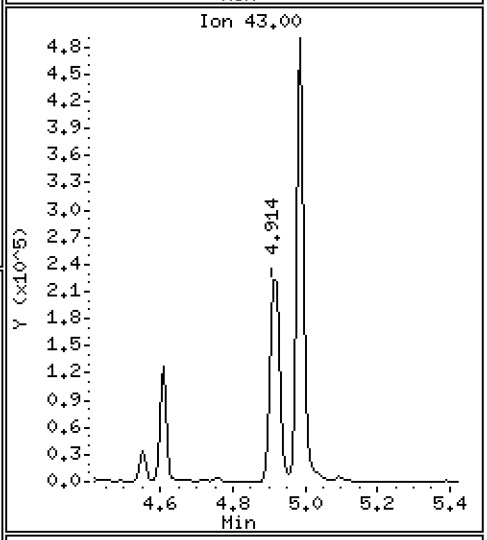
Column phase: DB-VRX Column diameter: 0.25

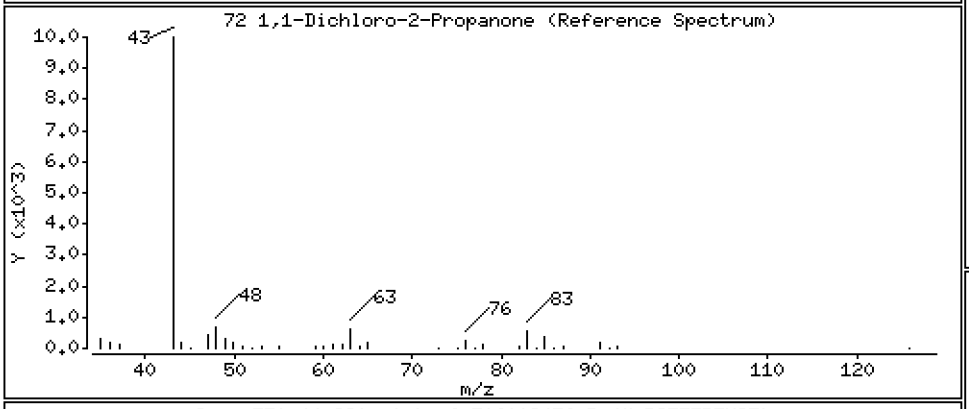
72 1,1-Dichloro-2-Propanone Concentration: 92.9587 ug/L

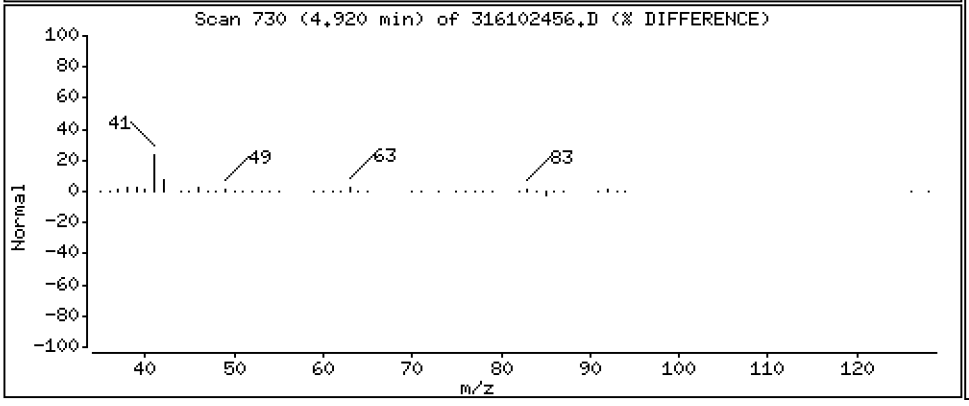


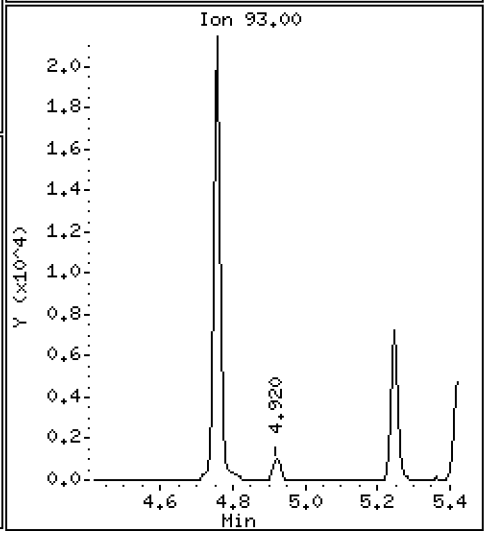












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 77

Date : 25-OCT-2016 00:30

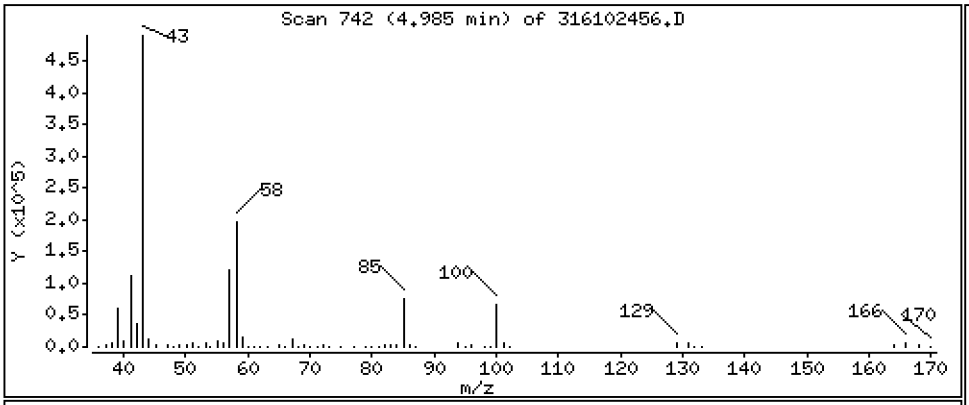
Client ID: Instrument: ms03.i

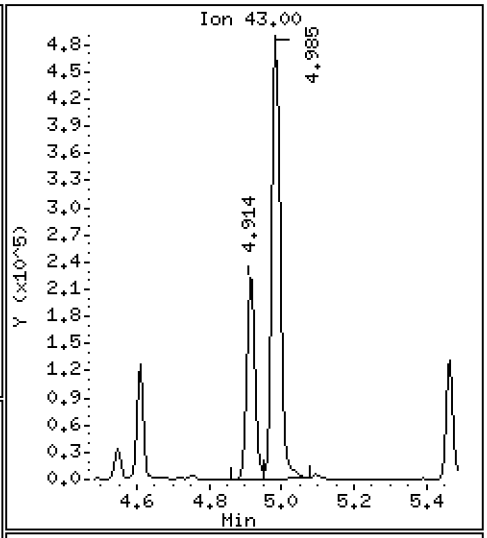
Sample Info: 1236;;1;1;3;;;

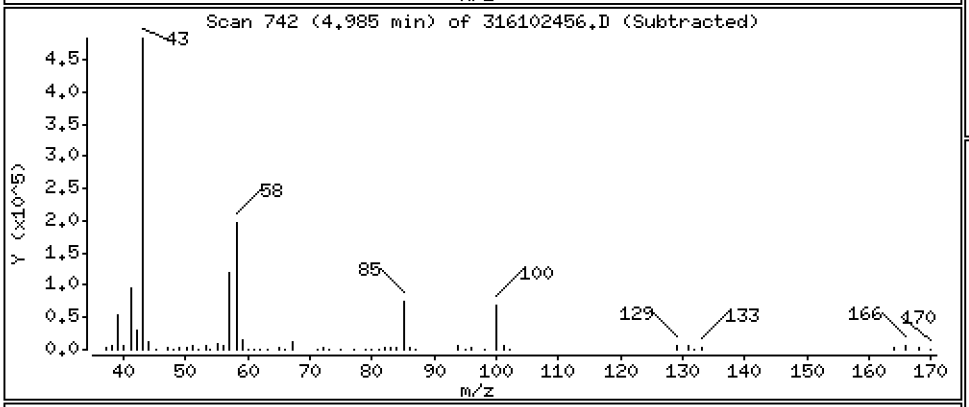
Purge Volume: 5.0 Operator: CJG

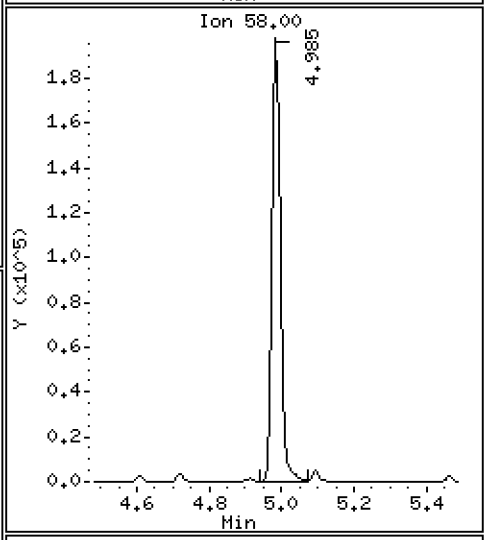
Column phase: DB-VRX Column diameter: 0.25

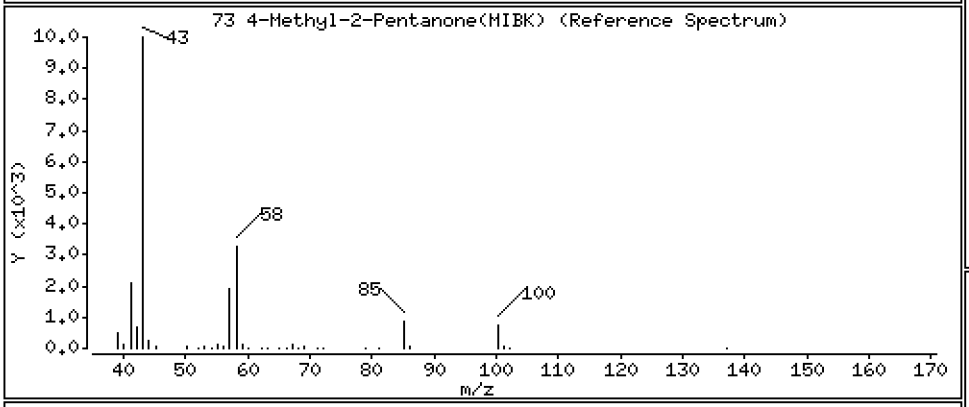
73 4-Methyl-2-Pentanone(MIBK) Concentration: 96.8150 ug/L

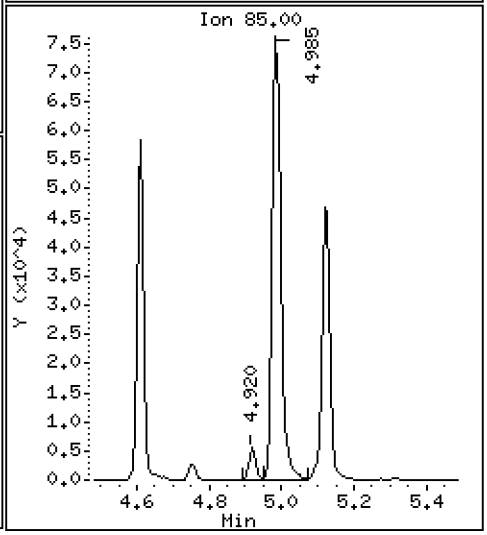


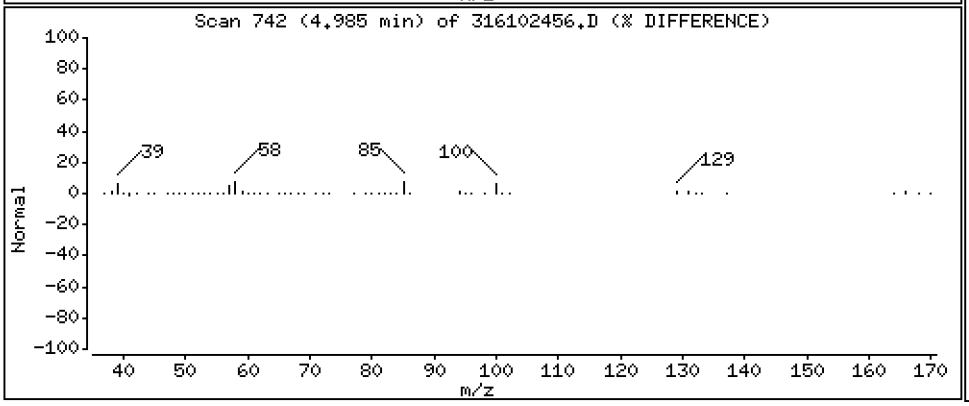












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 78

Date : 25-OCT-2016 00:30

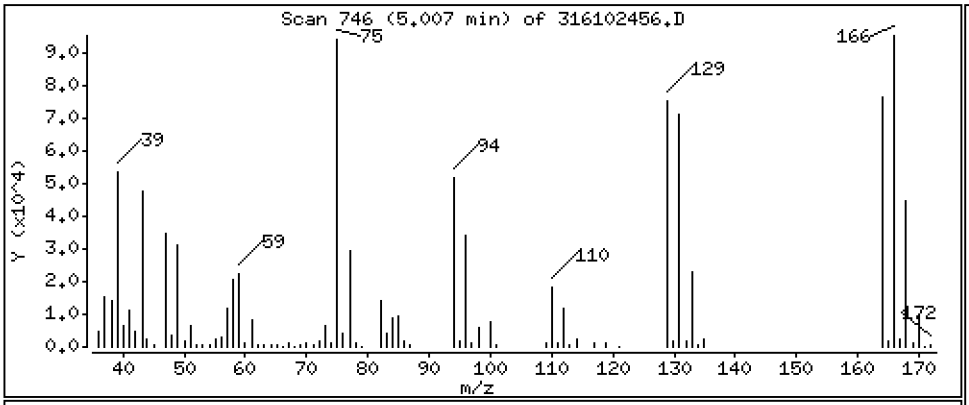
Client ID: Instrument: ms03.i

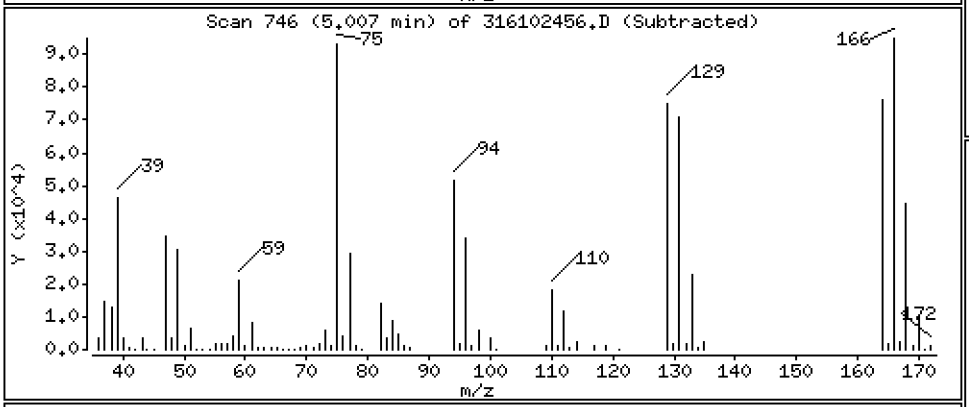
Sample Info: 1236;;1;1;3;;;

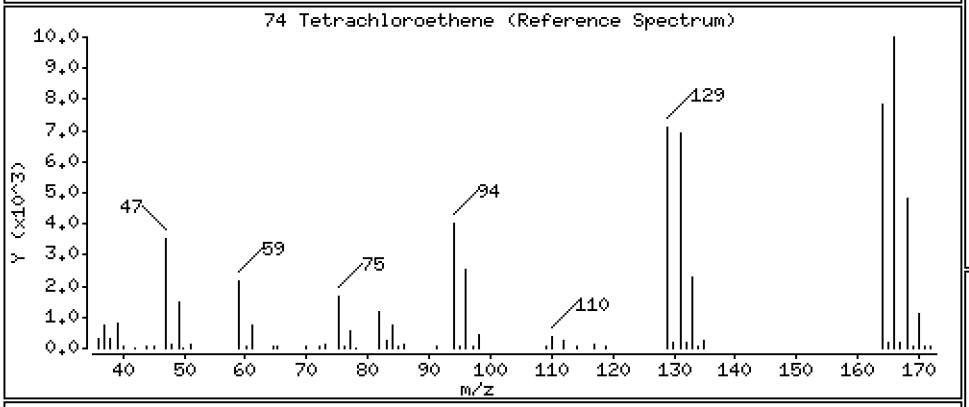
Purge Volume: 5.0 Operator: CJG

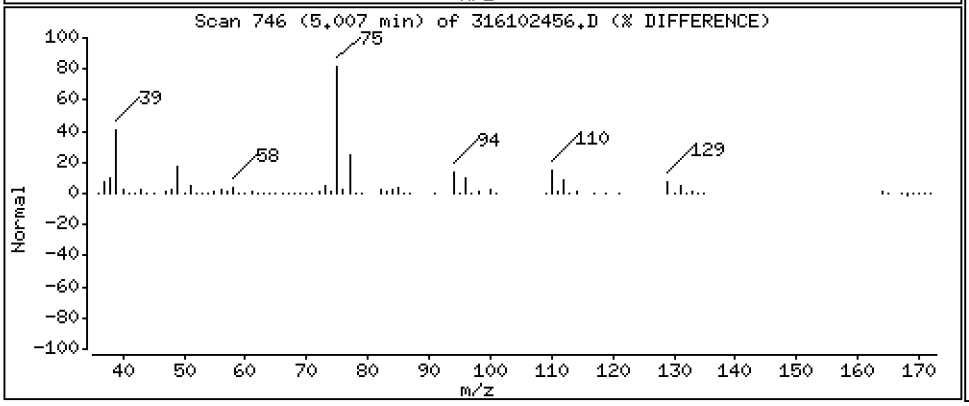
Column phase: DB-VRX Column diameter: 0.25

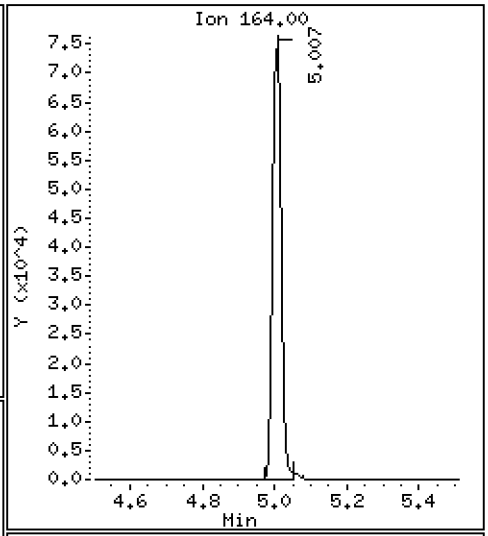
74 Tetrachloroethene Concentration: 22.7108 ug/L

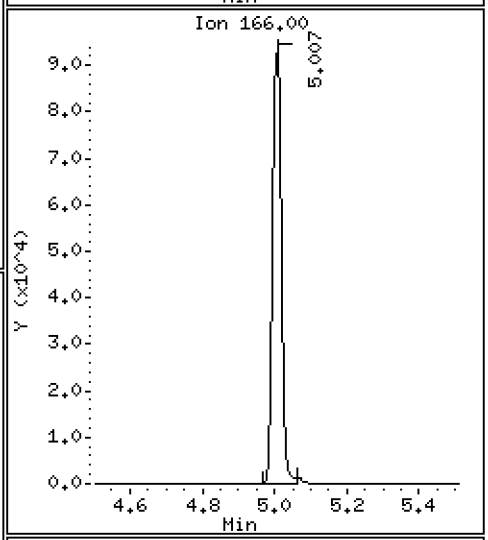


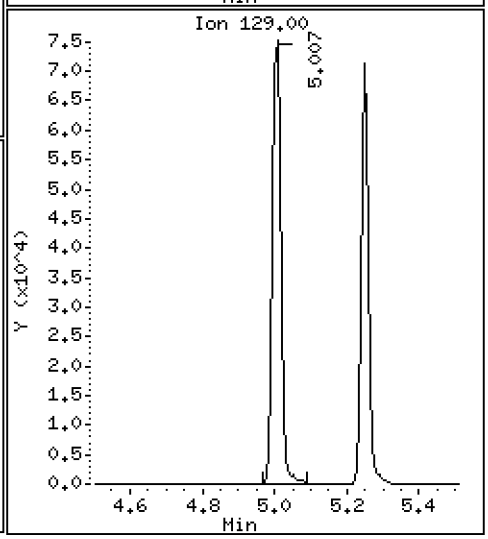












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 79

Date : 25-OCT-2016 00:30

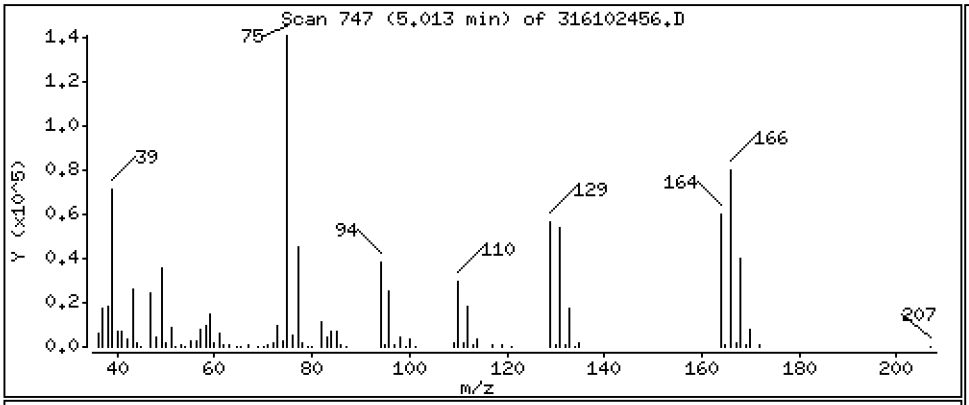
Client ID: Instrument: ms03.i

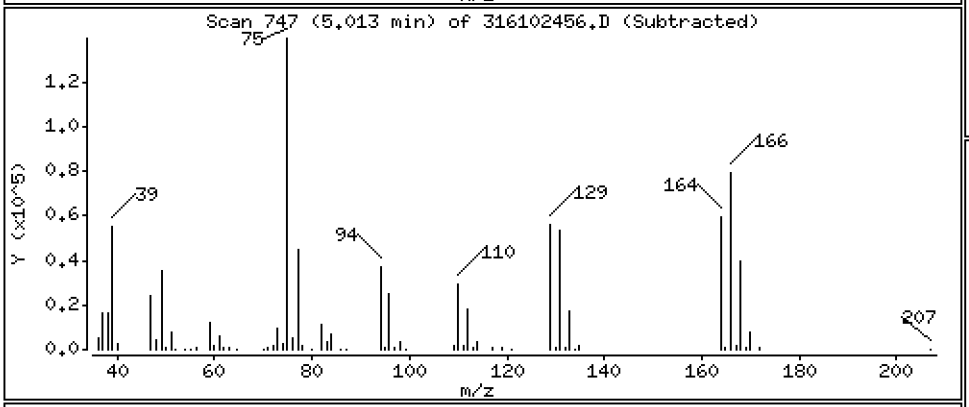
Sample Info: 1236;;1;1;3;;;

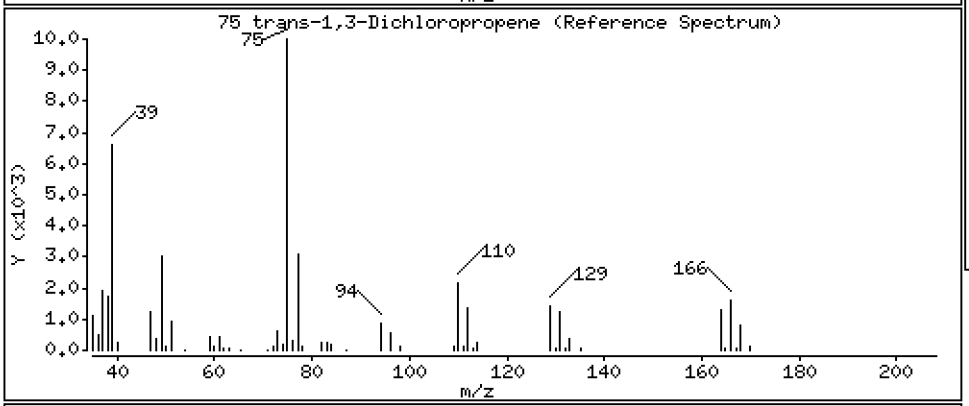
Purge Volume: 5.0 Operator: CJG

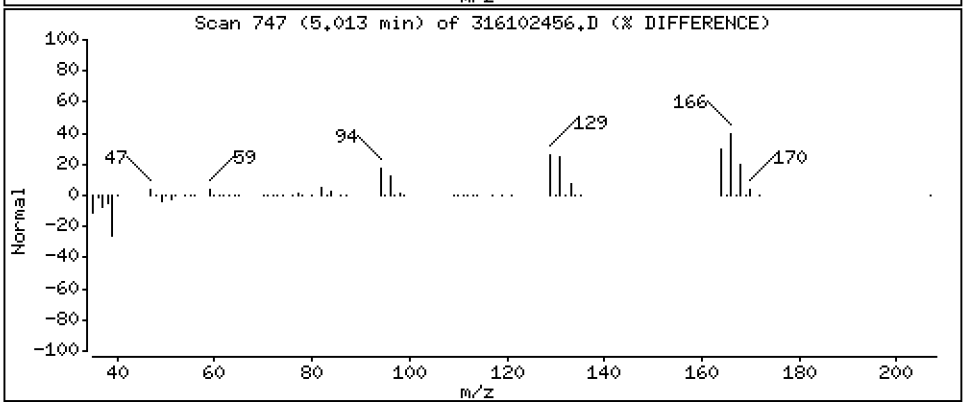
Column phase: DB-VRX Column diameter: 0.25

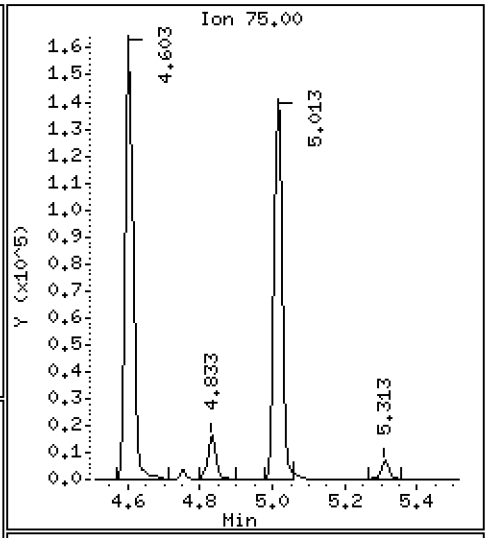
75 trans-1,3-Dichloropropene Concentration: 18.6188 ug/L

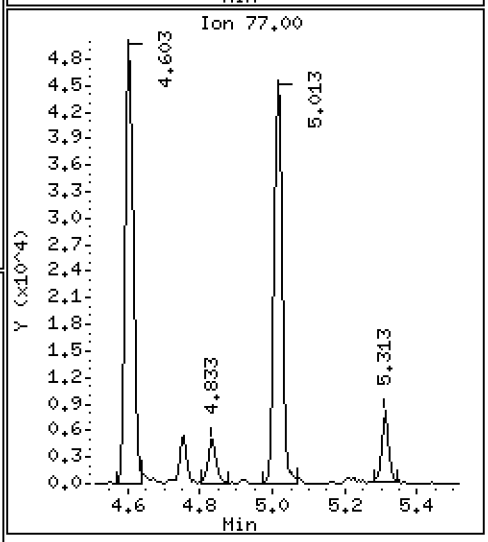












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 80

Date : 25-OCT-2016 00:30

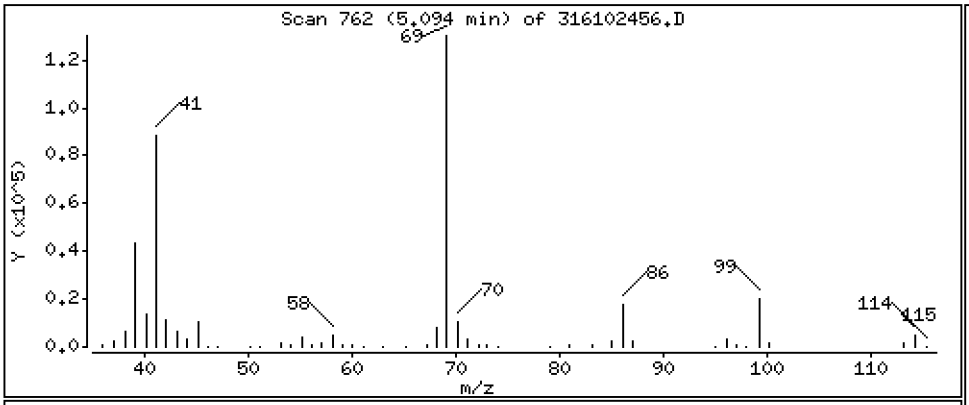
Client ID: Instrument: ms03.i

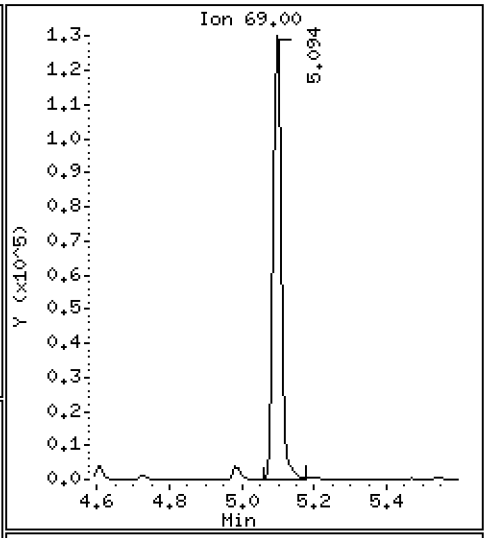
Sample Info: 1236;;1;1;3;;;

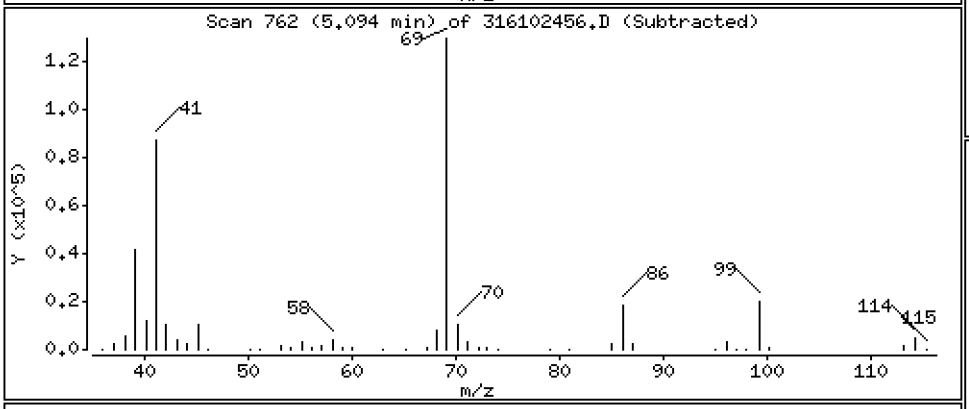
Purge Volume: 5.0 Operator: CJG

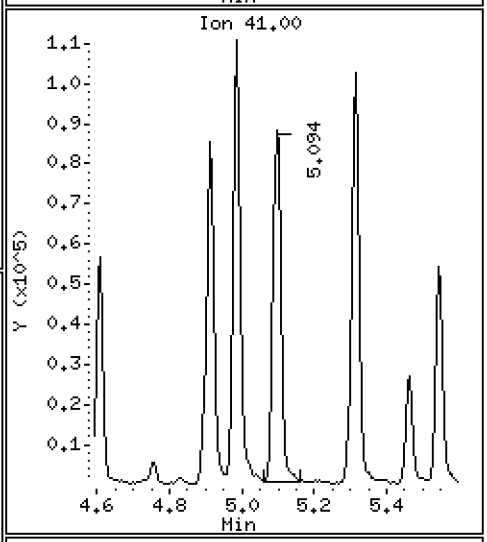
Column phase: DB-VRX Column diameter: 0.25

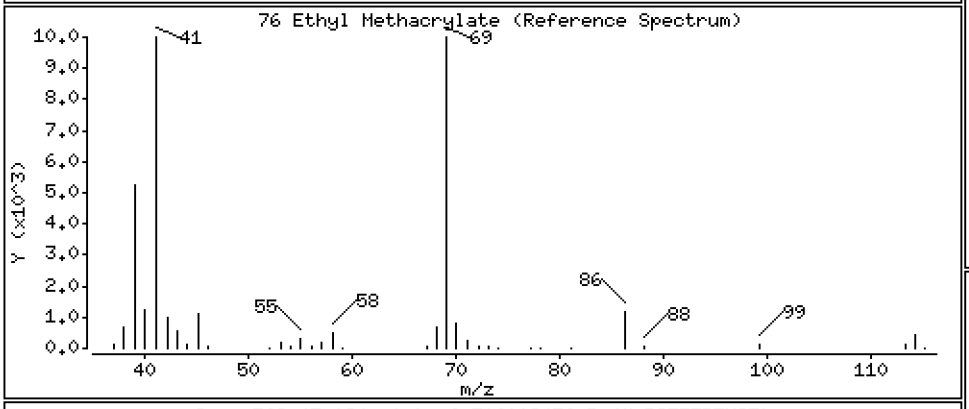
76 Ethyl Methacrylate Concentration: 18.7051 ug/L

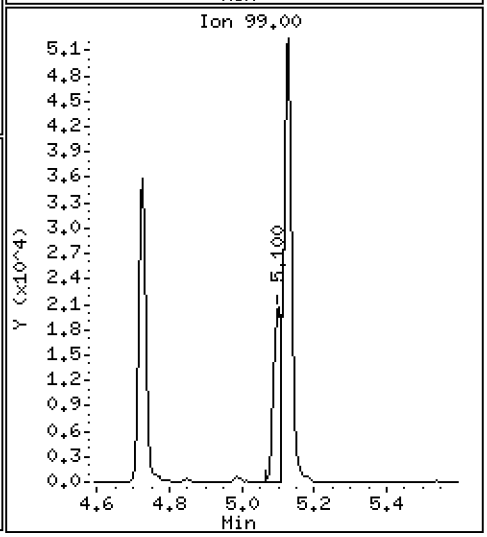


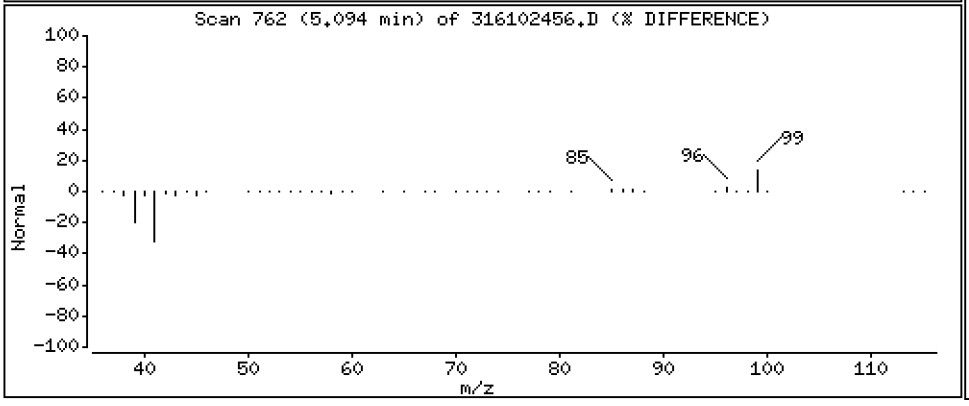












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 81

Date : 25-OCT-2016 00:30

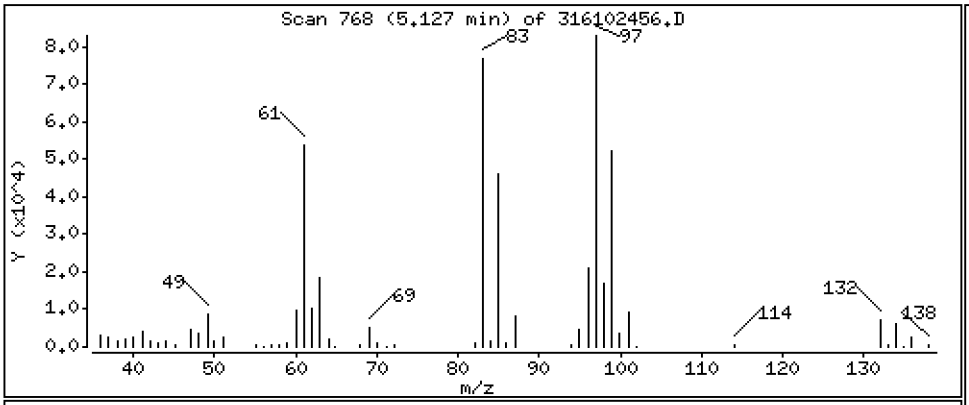
Client ID: Instrument: ms03.i

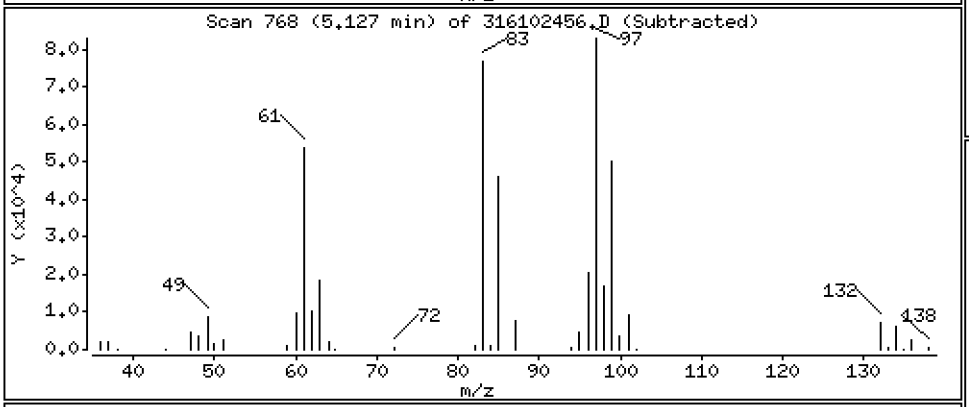
Sample Info: 1236;;1;1;3;;;

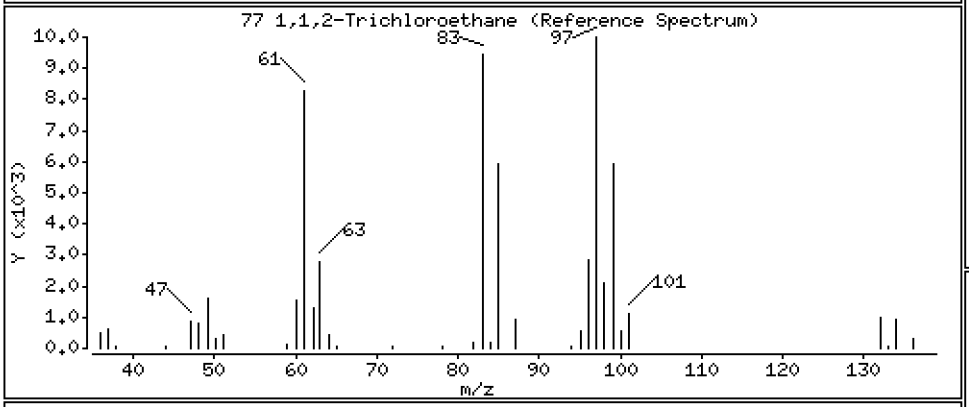
Purge Volume: 5.0 Operator: CJG

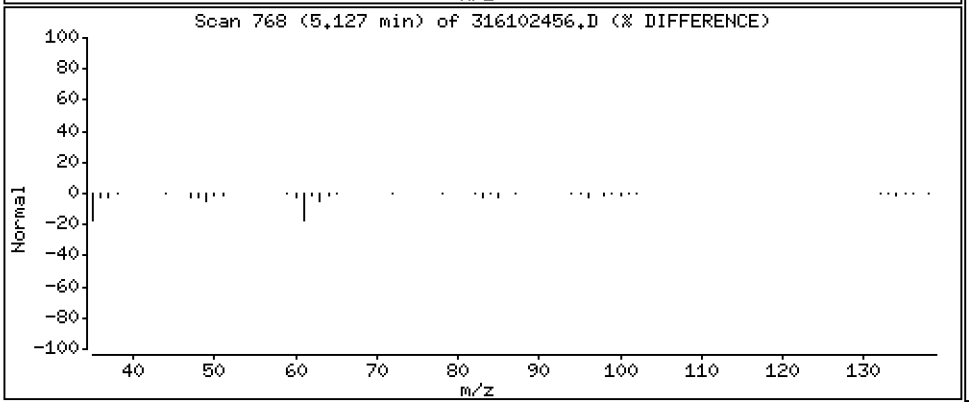
Column phase: DB-VRX Column diameter: 0.25

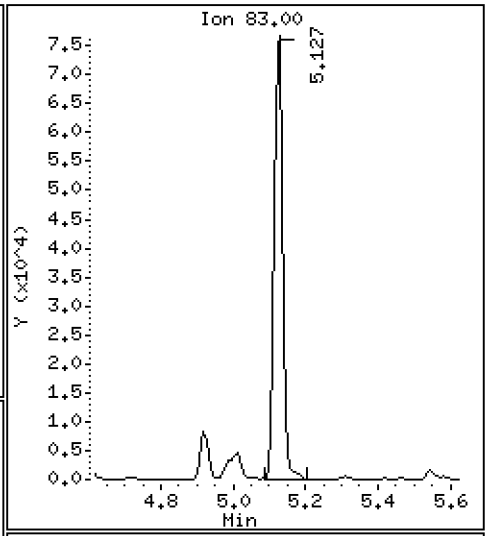
77 1,1,2-Trichloroethane Concentration: 20.5033 ug/L

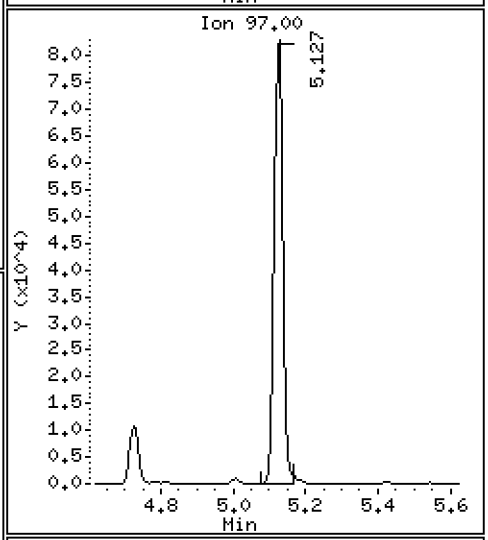


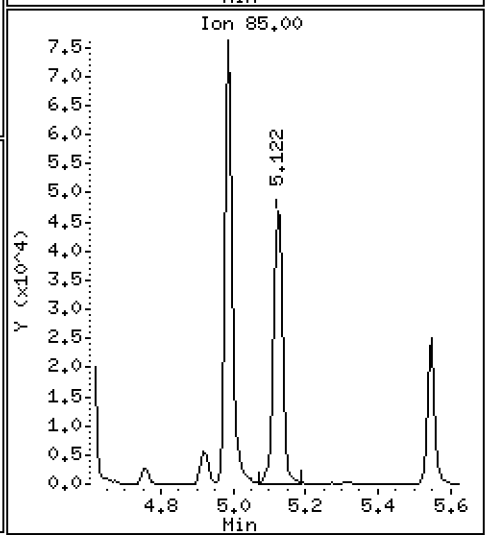












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 82

Date : 25-OCT-2016 00:30

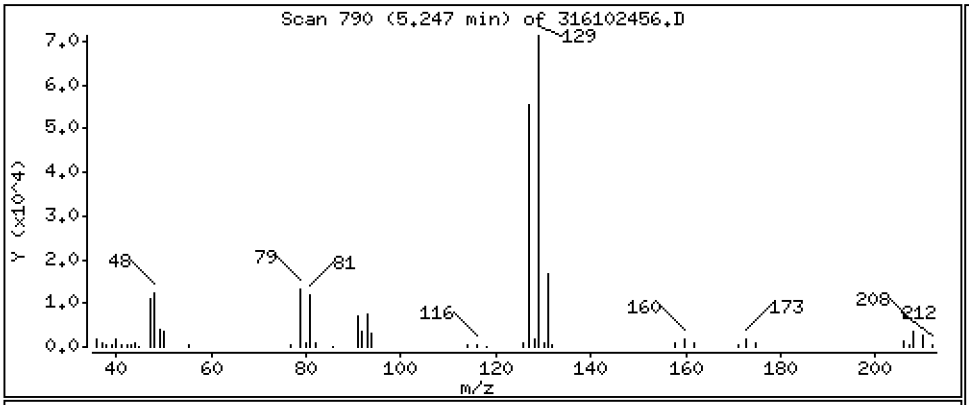
Client ID: Instrument: ms03.i

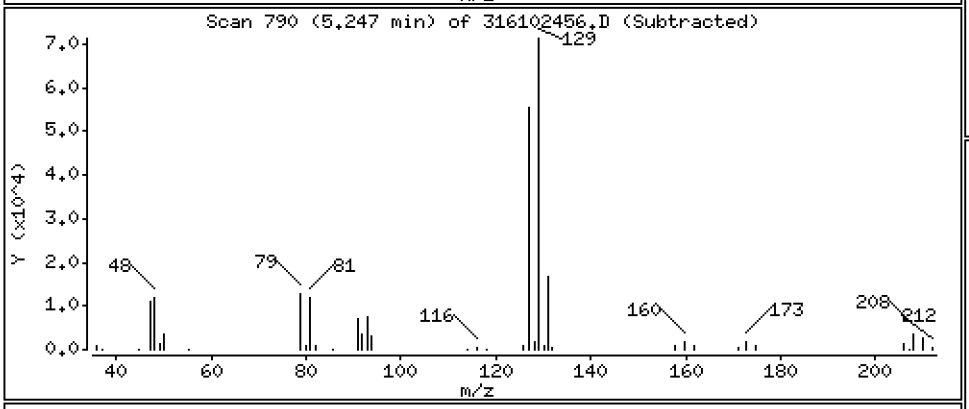
Sample Info: 1236;;1;1;3;;;

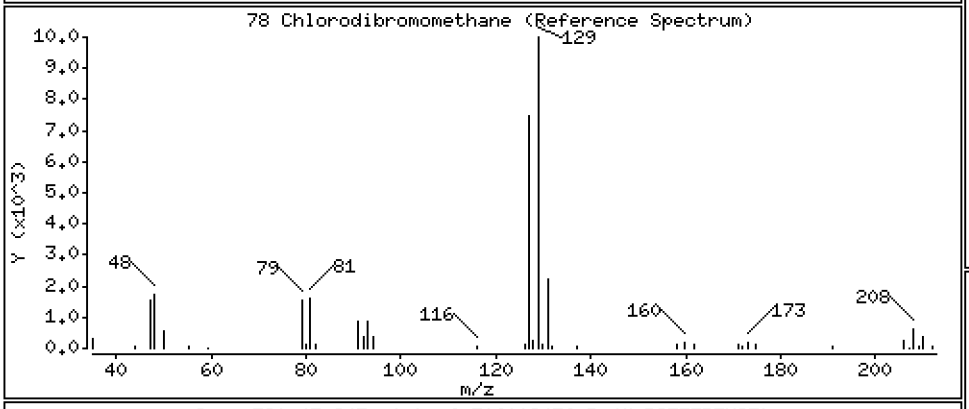
Purge Volume: 5.0 Operator: CJG

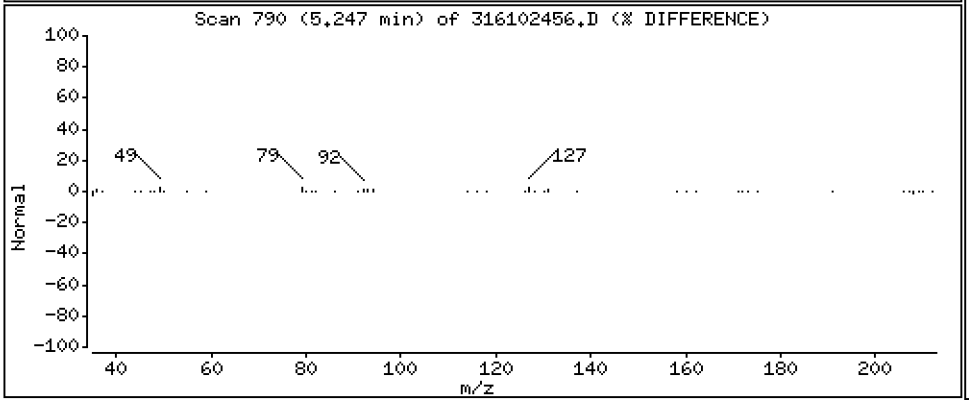
Column phase: DB-VRX Column diameter: 0.25

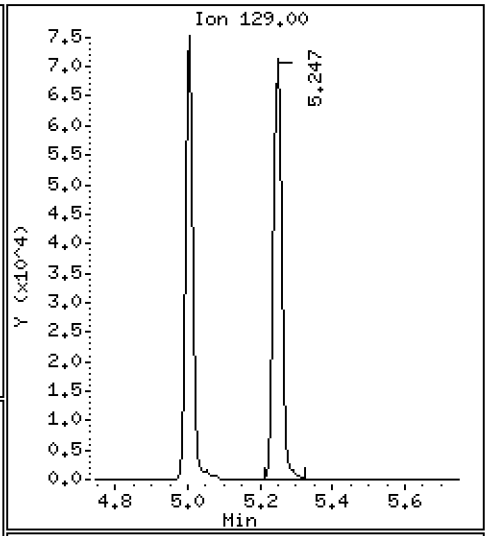
78 Chlorodibromomethane Concentration: 18.5687 ug/L

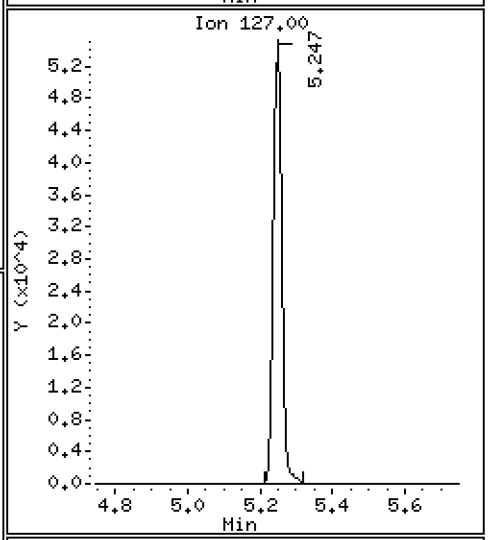


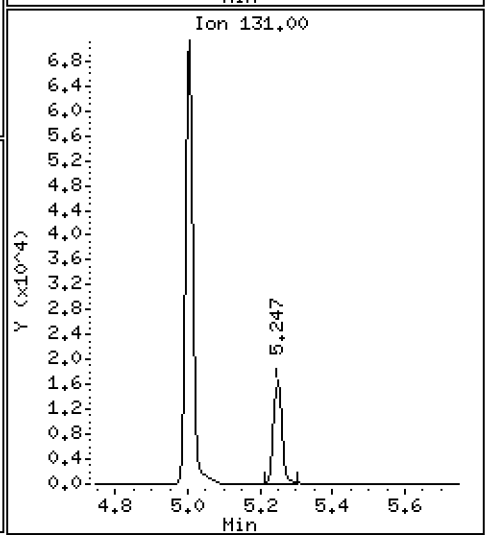












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 83

Date : 25-OCT-2016 00:30

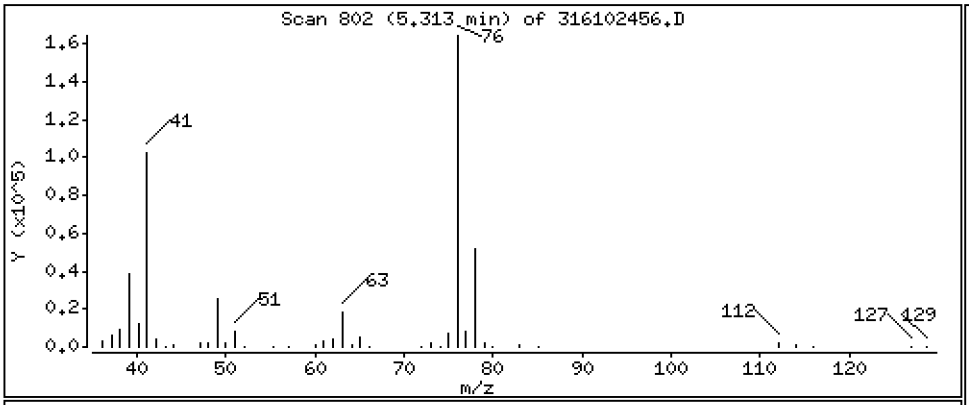
Client ID: Instrument: ms03.i

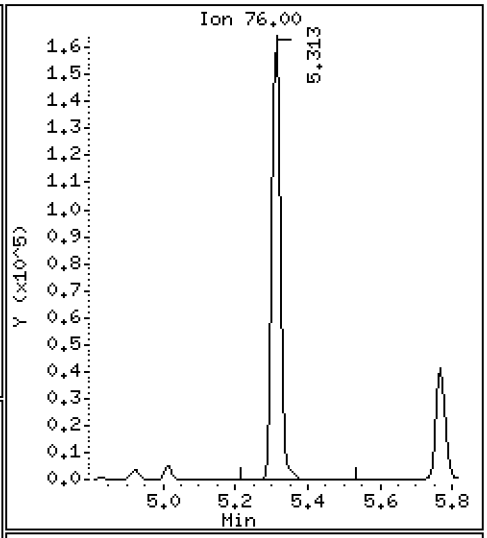
Sample Info: 1236;;1;1;3;;;

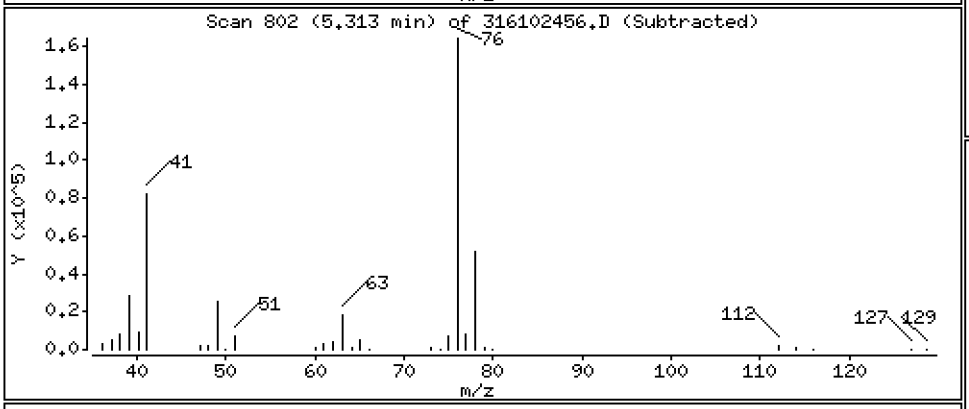
Purge Volume: 5.0 Operator: CJG

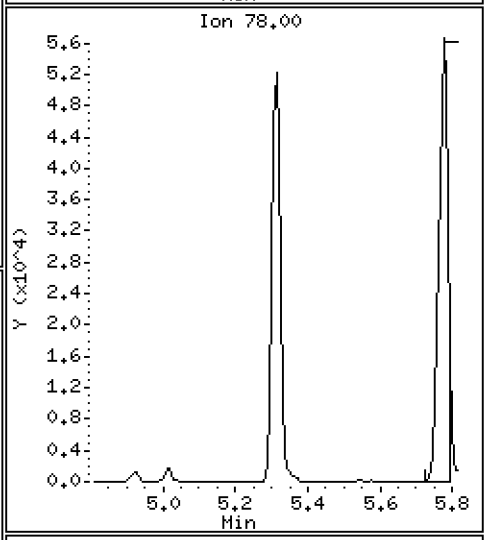
Column phase: DB-VRX Column diameter: 0.25

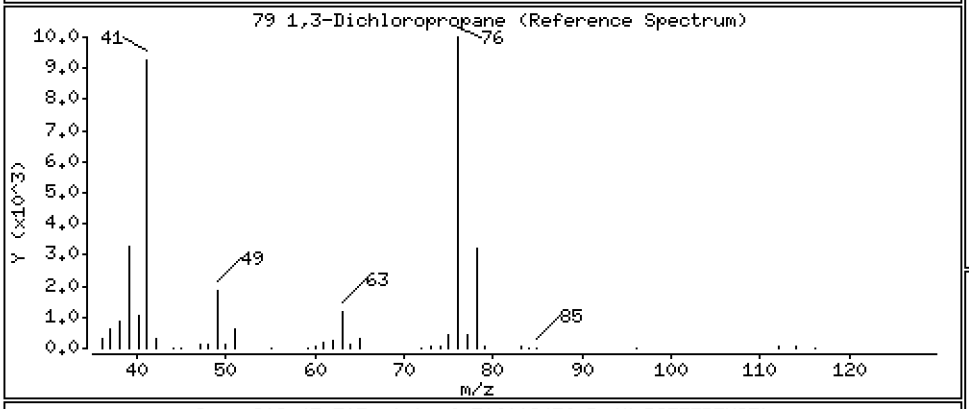
79 1,3-Dichloropropane Concentration: 20.1134 ug/L

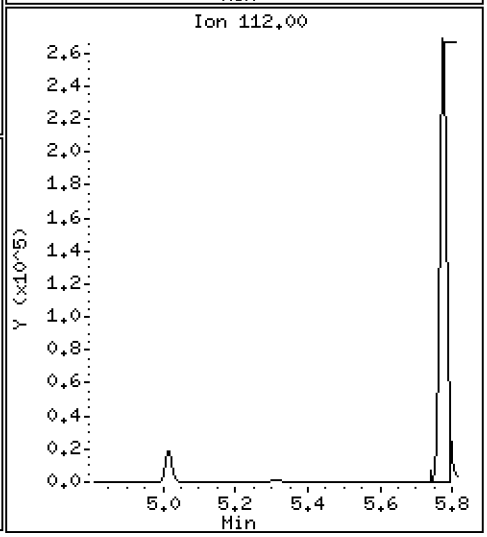


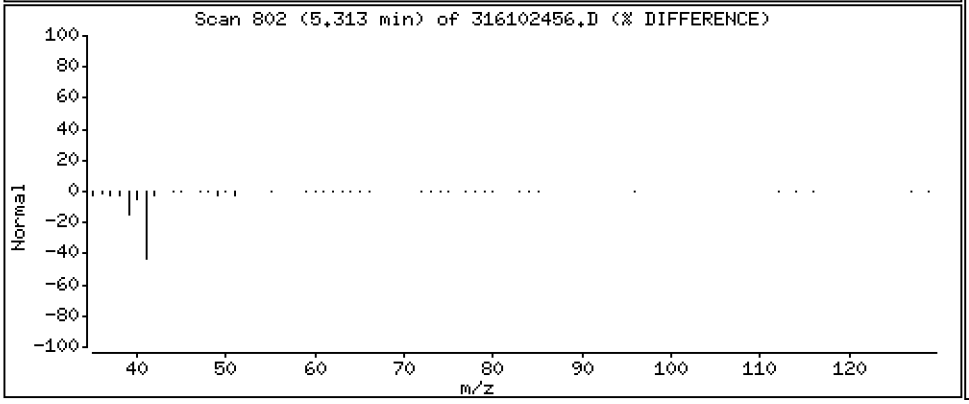












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 84

Date : 25-OCT-2016 00:30

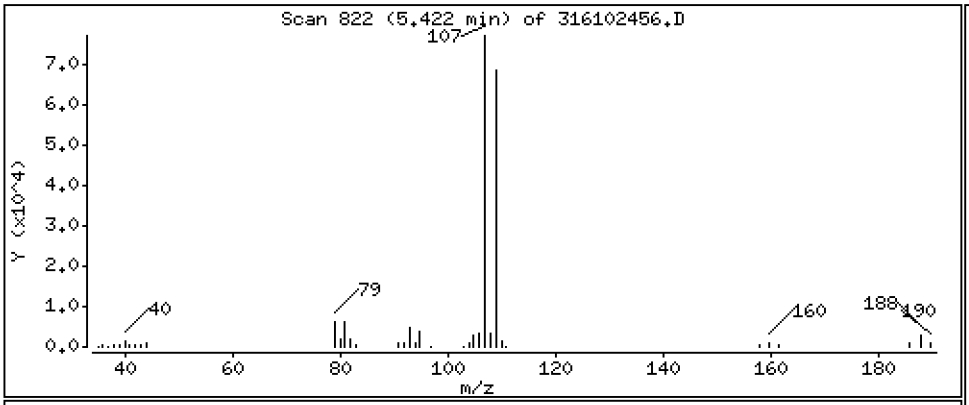
Client ID: Instrument: ms03.i

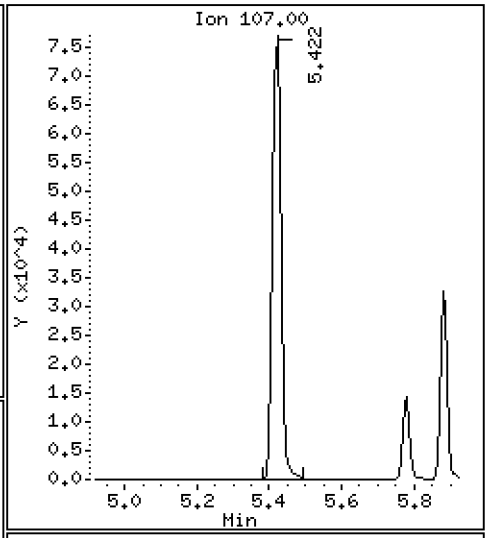
Sample Info: 1236;;1;1;3;;;

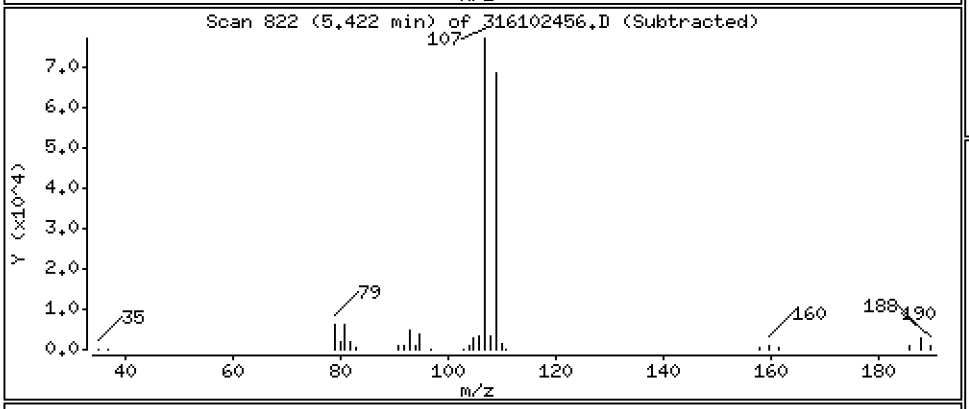
Purge Volume: 5.0 Operator: CJG

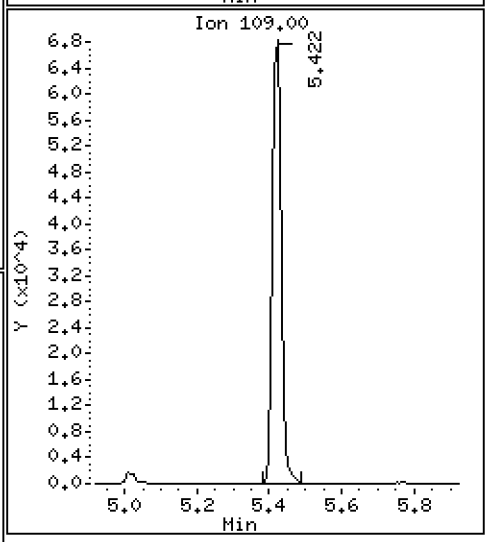
Column phase: DB-VRX Column diameter: 0.25

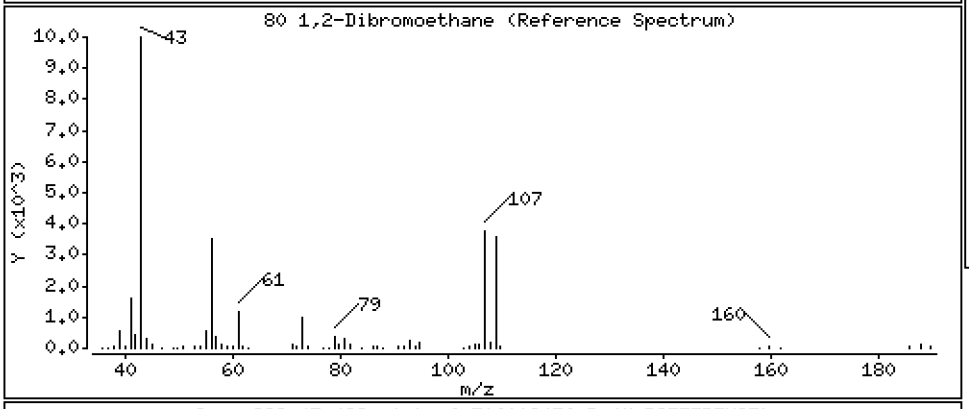
80 1,2-Dibromoethane Concentration: 20.0089 ug/L

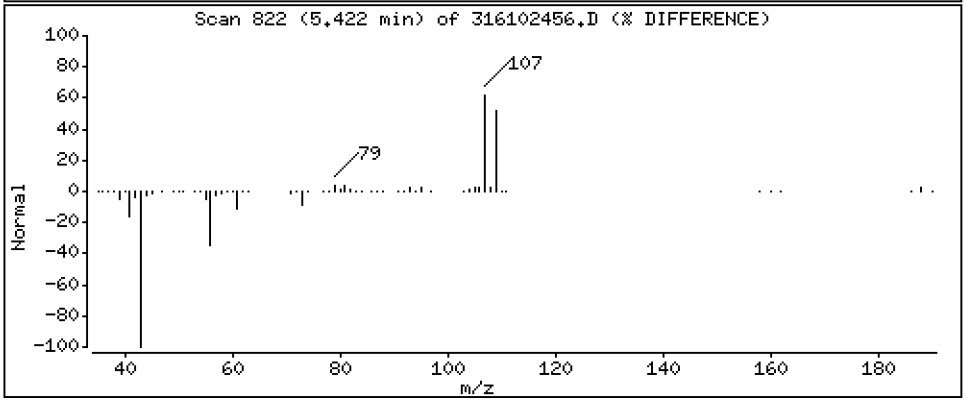












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 85

Date : 25-OCT-2016 00:30

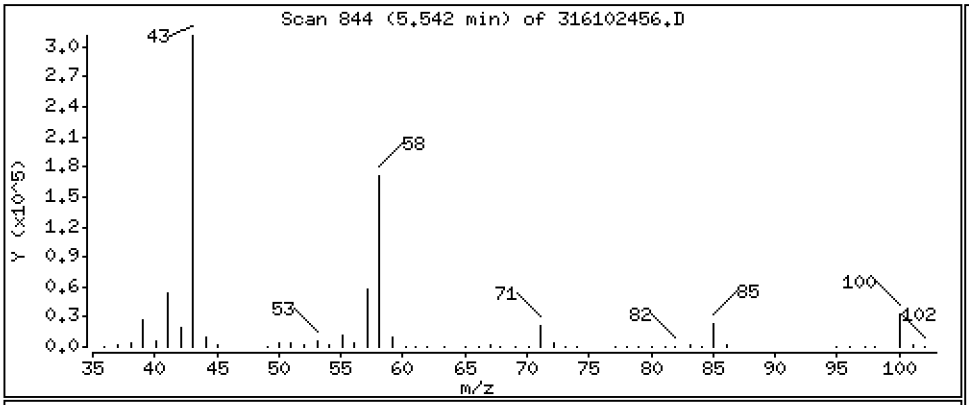
Client ID: Instrument: ms03.i

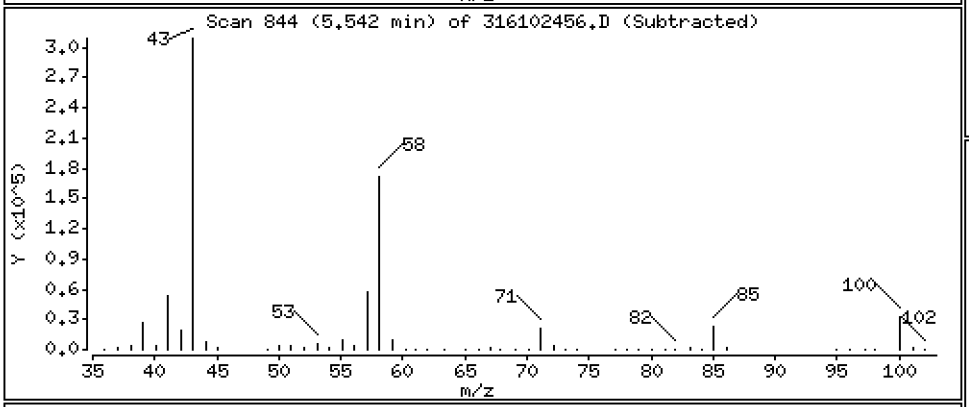
Sample Info: 1236;;1;1;3;;;

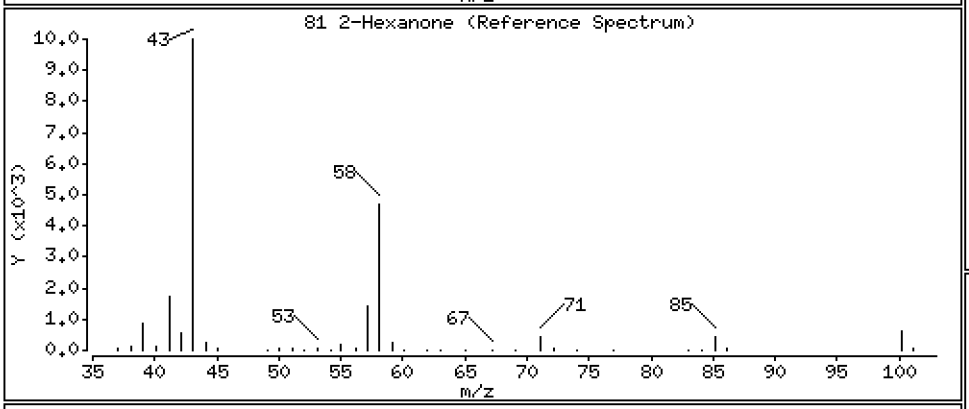
Purge Volume: 5.0 Operator: CJG

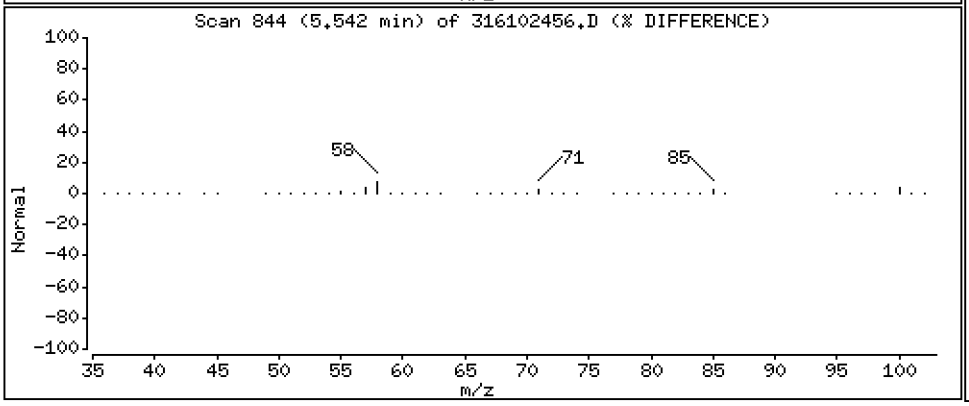
Column phase: DB-VRX Column diameter: 0.25

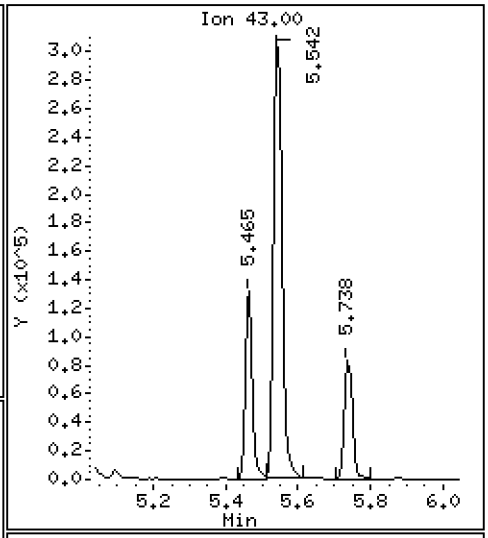
81 2-Hexanone Concentration: 93.0673 ug/L

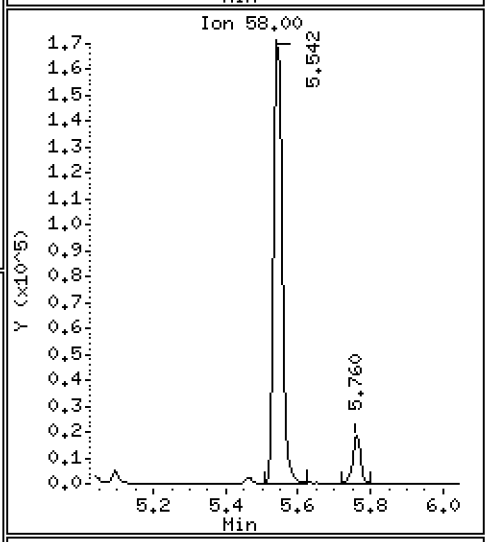


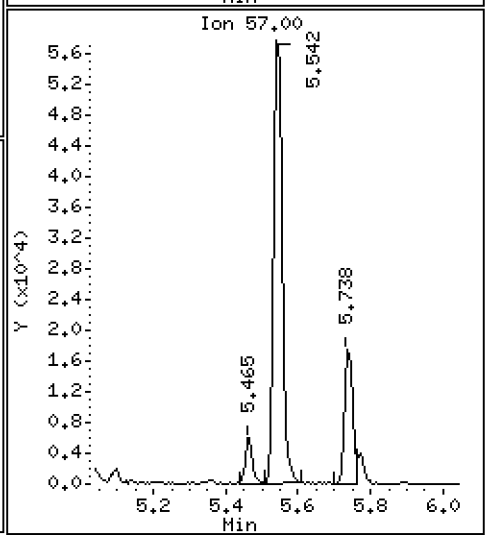












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 86

Date : 25-OCT-2016 00:30

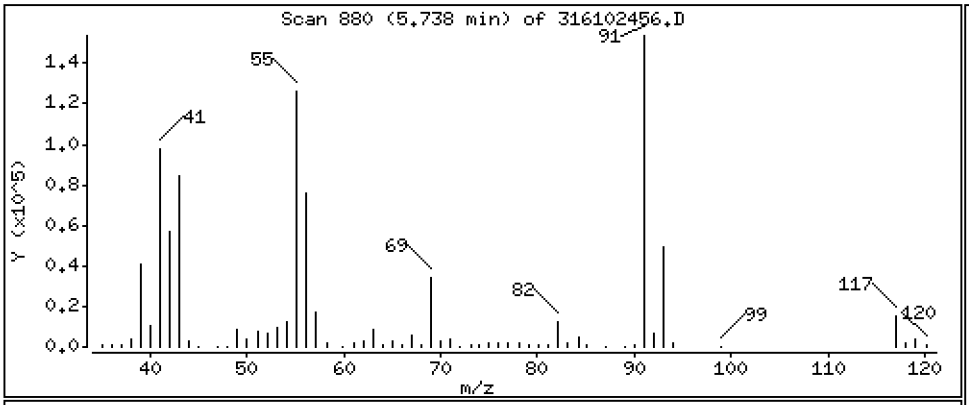
Client ID: Instrument: ms03.i

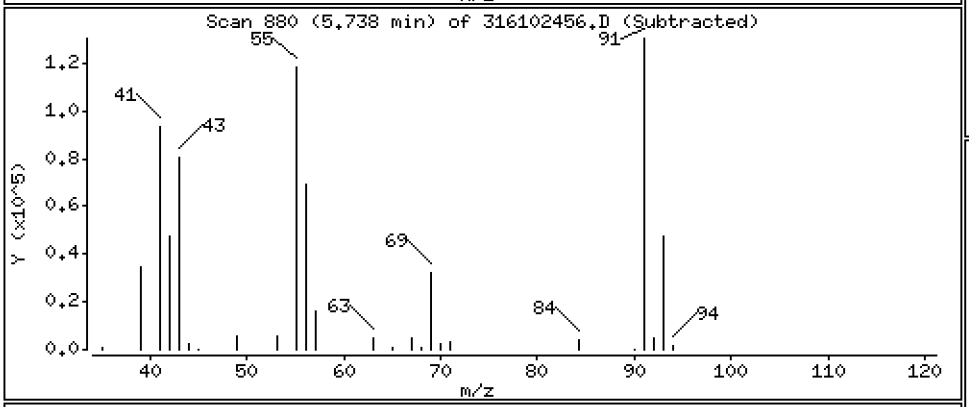
Sample Info: 1236;;1;1;3;;;

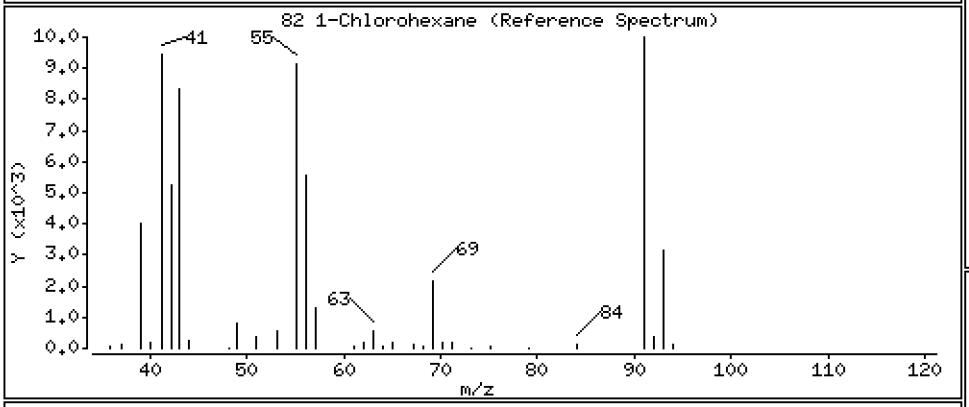
Purge Volume: 5.0 Operator: CJG

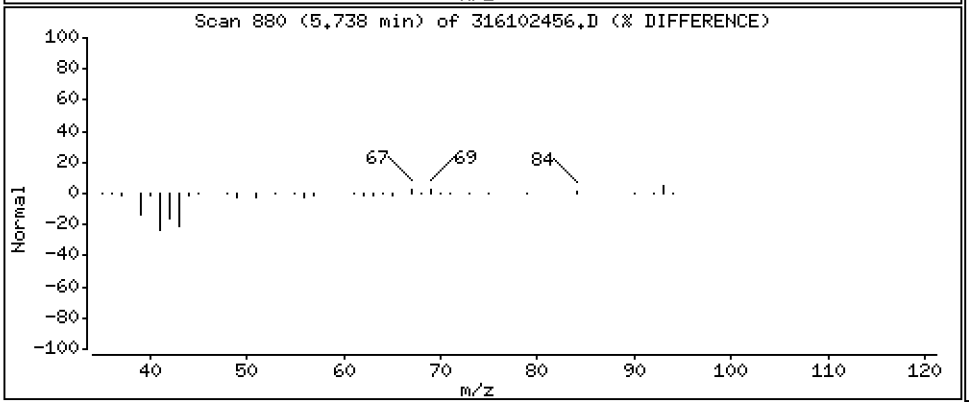
Column phase: DB-VRX Column diameter: 0.25

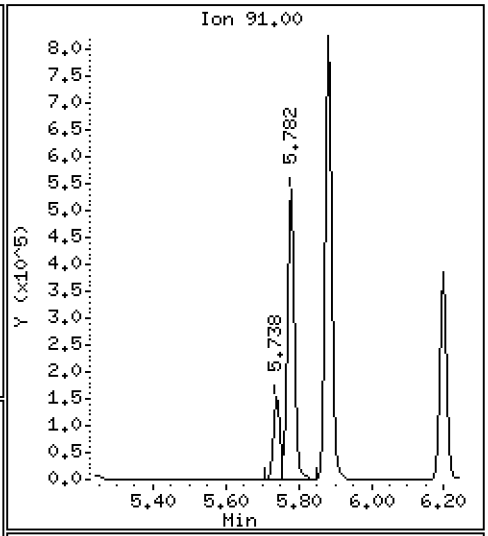
82 1-Chlorohexane Concentration: 20.6714 ug/L

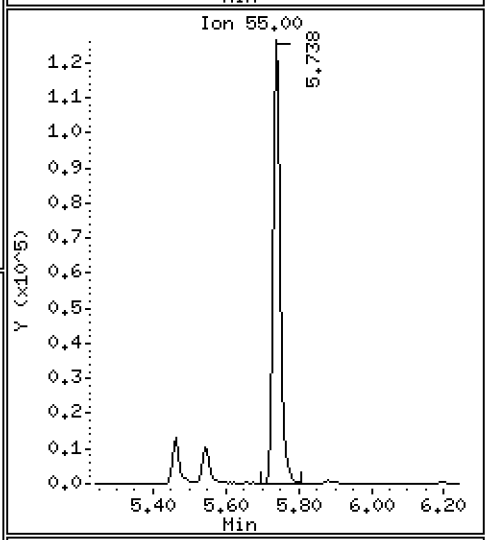


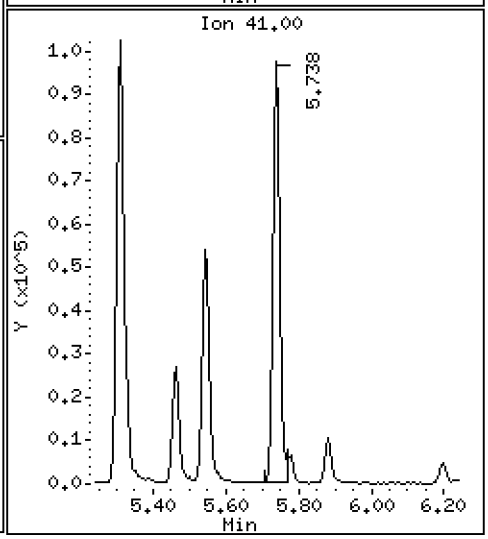












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 87

Date : 25-OCT-2016 00:30

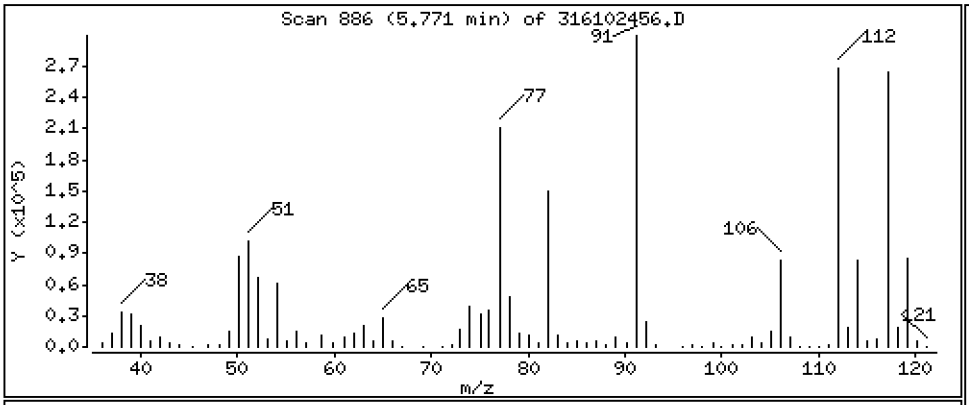
Client ID: Instrument: ms03.i

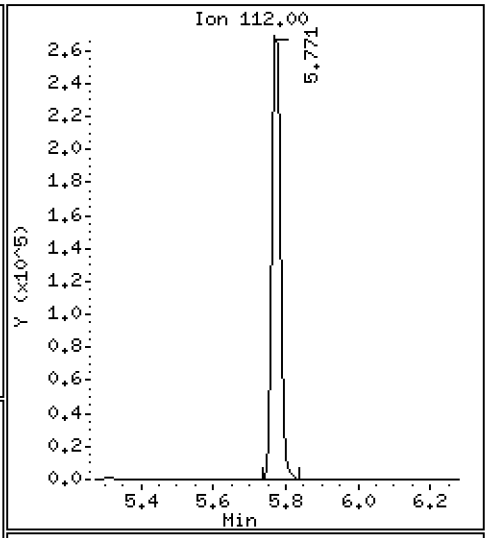
Sample Info: 1236;;1;1;3;;;

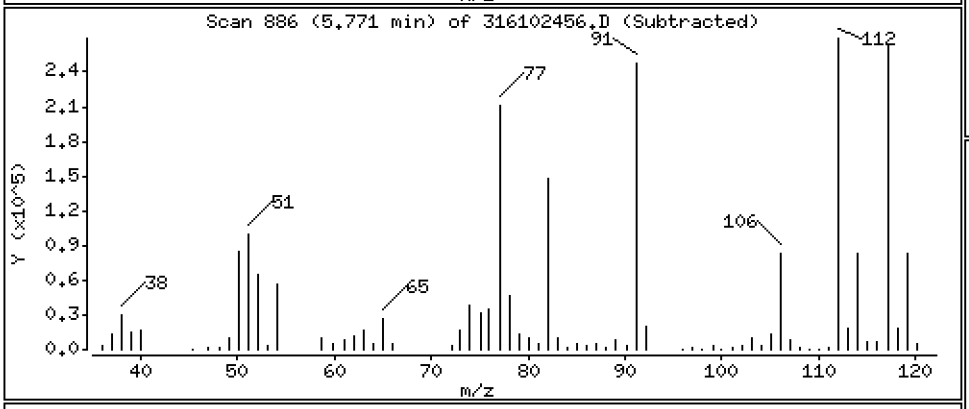
Purge Volume: 5.0 Operator: CJG

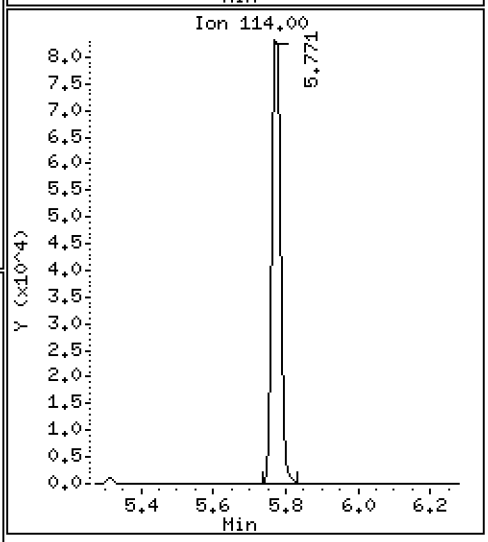
Column phase: DB-VRX Column diameter: 0.25

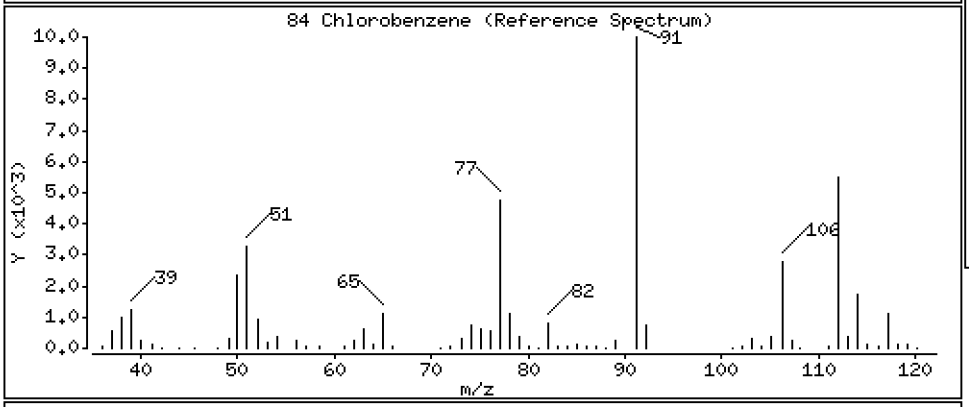
84 Chlorobenzene Concentration: 20.9713 ug/L

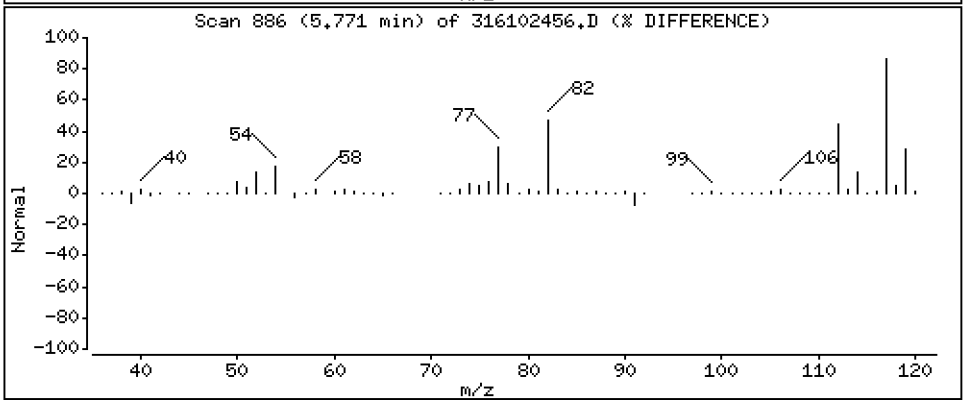












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 88

Date : 25-OCT-2016 00:30

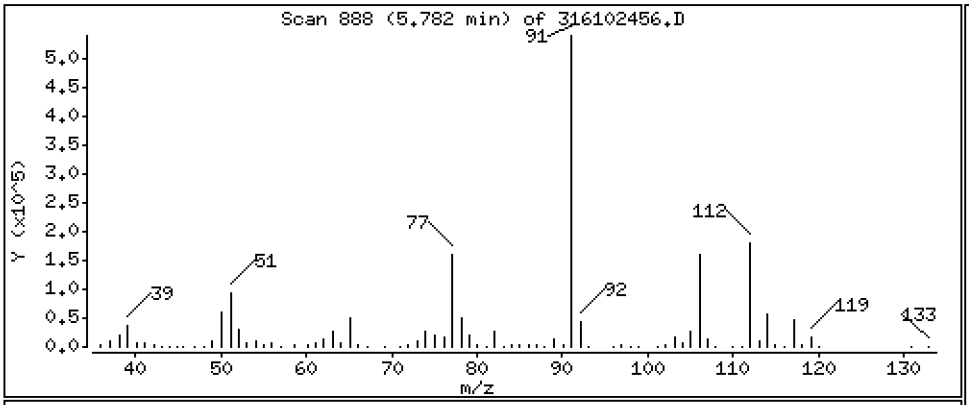
Client ID: Instrument: ms03.i

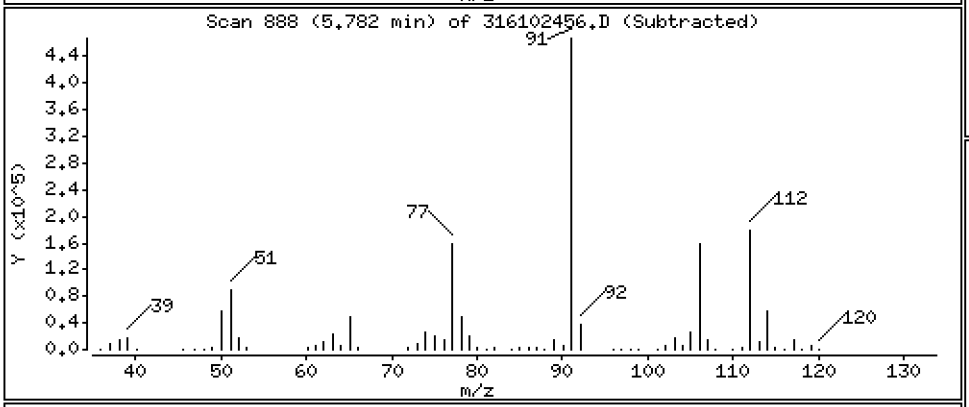
Sample Info: 1236;;1;1;3;;;

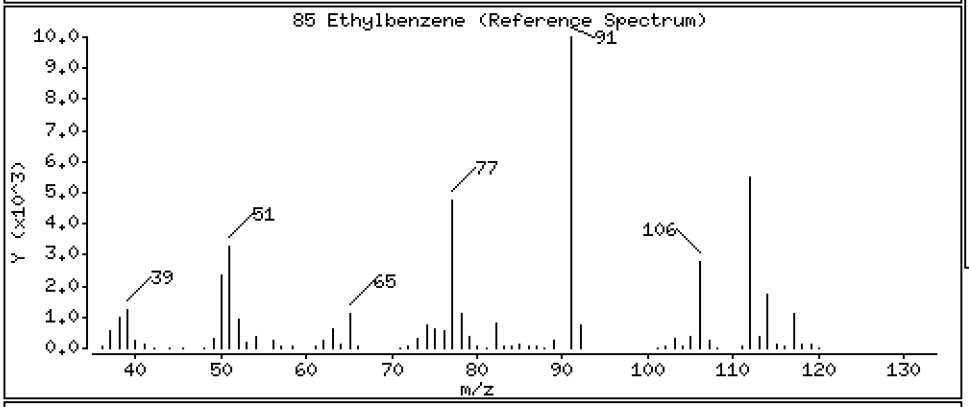
Purge Volume: 5.0 Operator: CJG

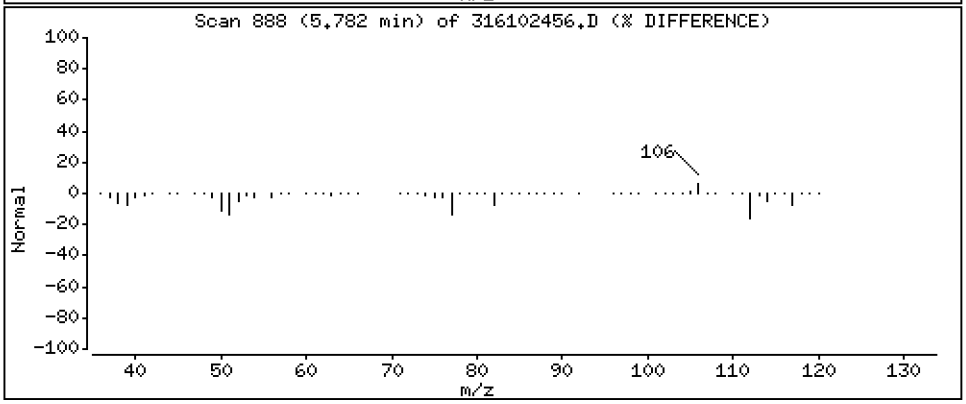
Column phase: DB-VRX Column diameter: 0.25

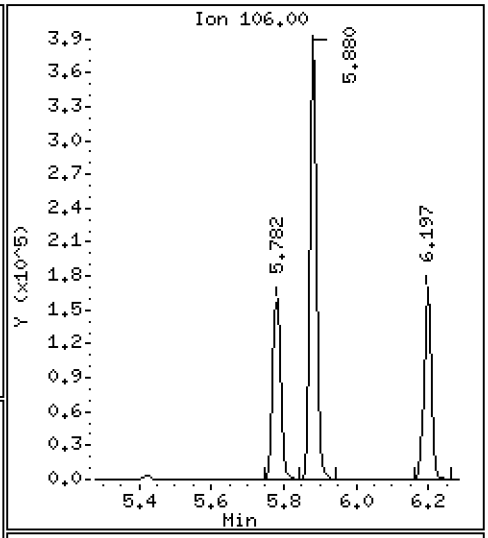
85 Ethylbenzene Concentration: 21.2382 ug/L

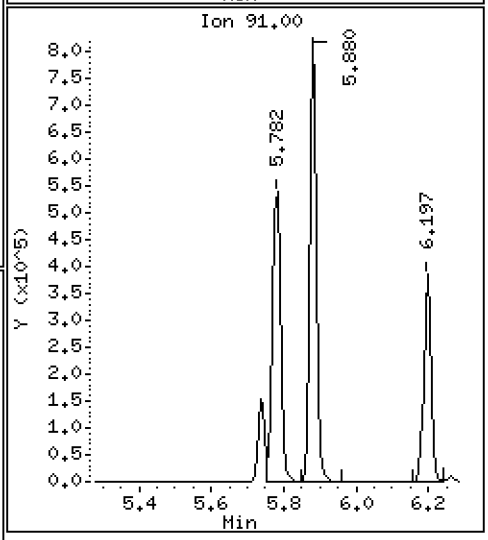












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 89

Date : 25-OCT-2016 00:30

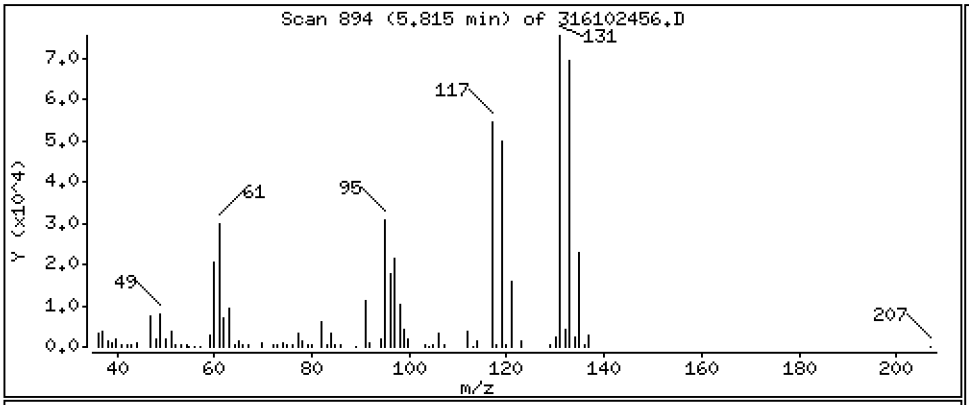
Client ID: Instrument: ms03.i

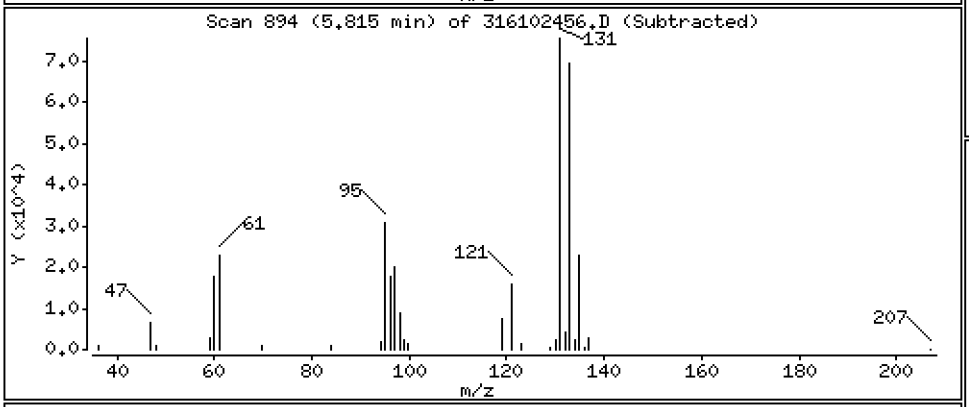
Sample Info: 1236;;1;1;3;;;

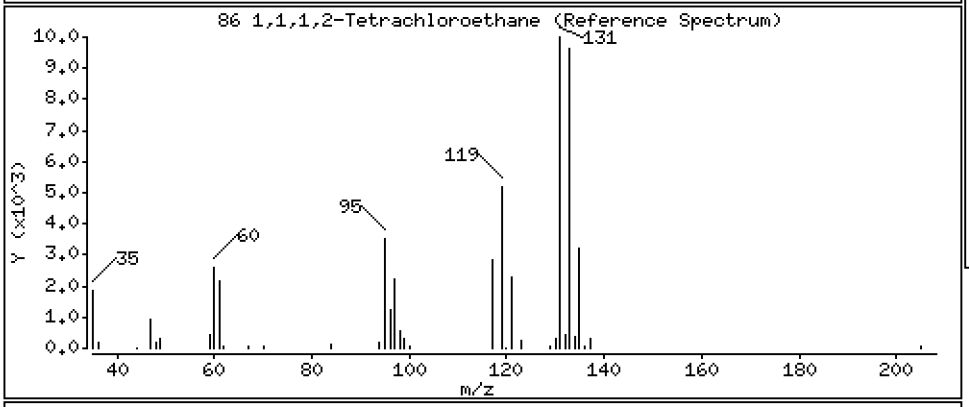
Purge Volume: 5.0 Operator: CJG

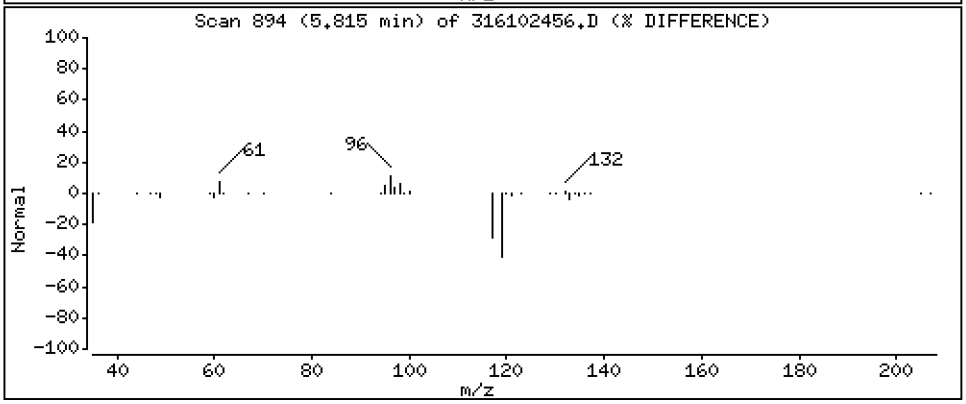
Column phase: DB-VRX Column diameter: 0.25

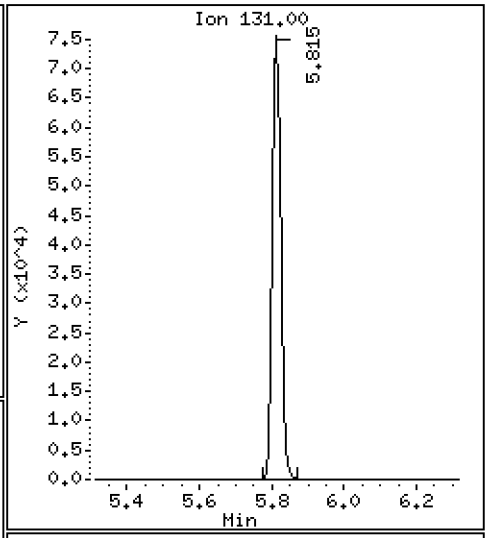
86 1,1,1,2-Tetrachloroethane Concentration: 19.8611 ug/L

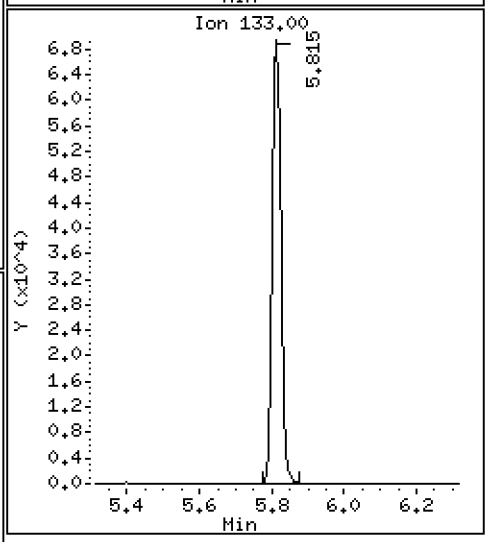












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 90

Date : 25-OCT-2016 00:30

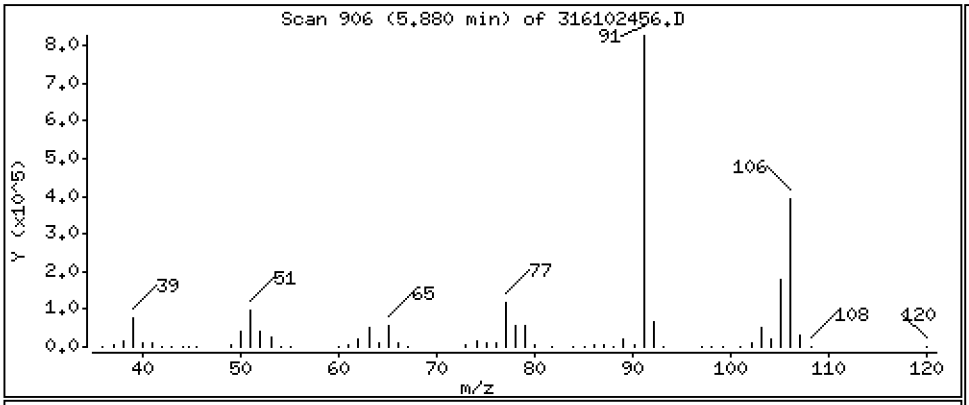
Client ID: Instrument: ms03.i

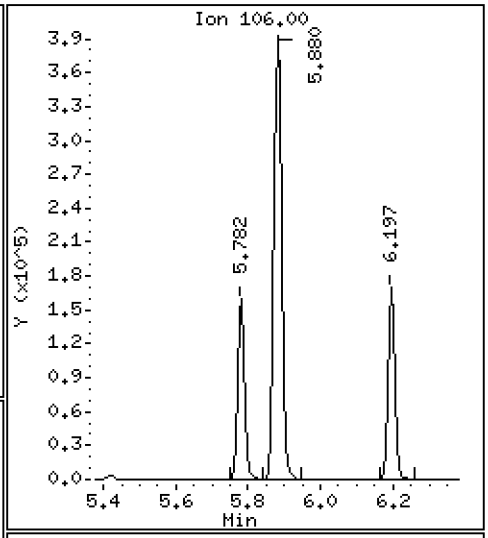
Sample Info: 1236;;1;1;3;;;

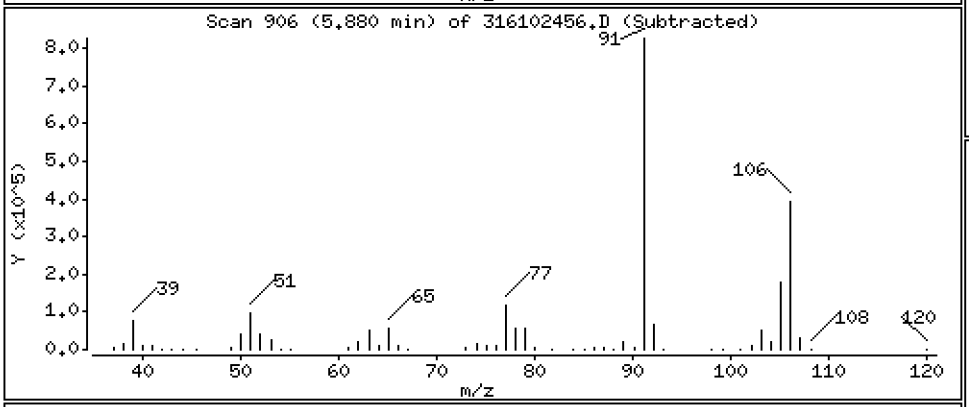
Purge Volume: 5.0 Operator: CJG

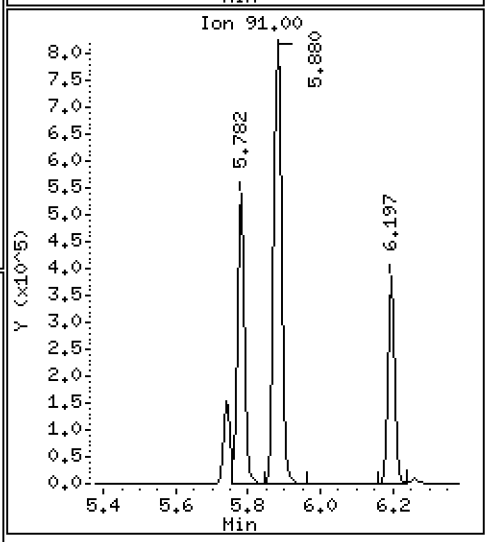
Column phase: DB-VRX Column diameter: 0.25

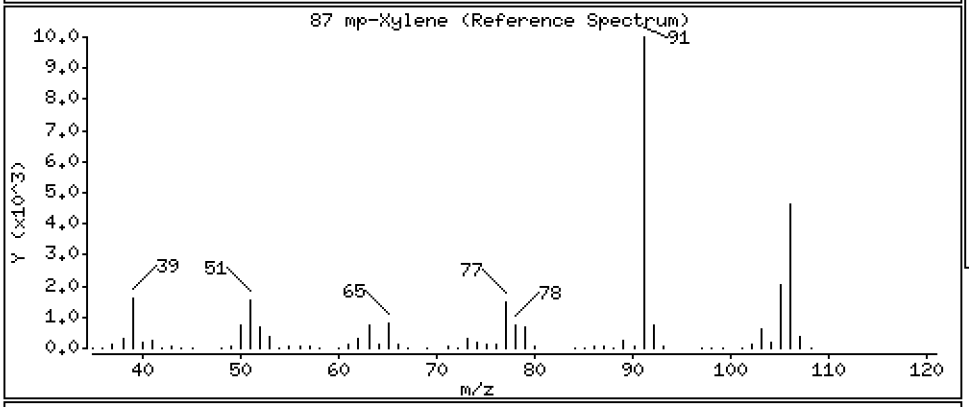
87 mp-Xylene Concentration: 41.9676 ug/L

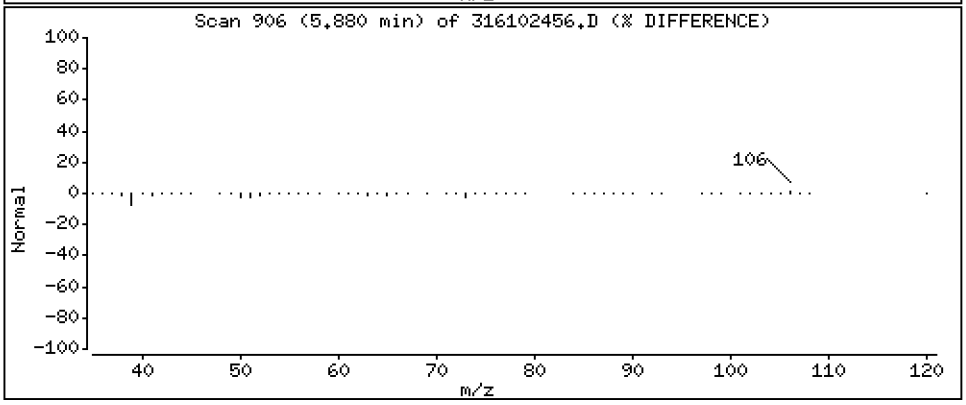












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 91

Date : 25-OCT-2016 00:30

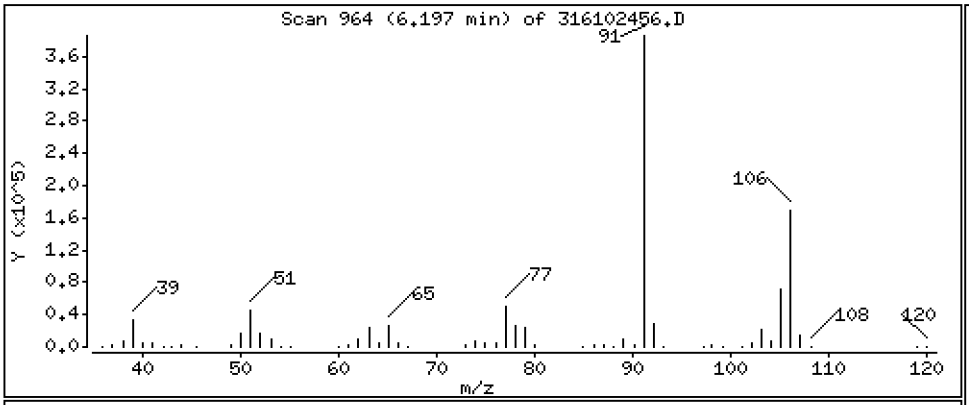
Client ID: Instrument: ms03.i

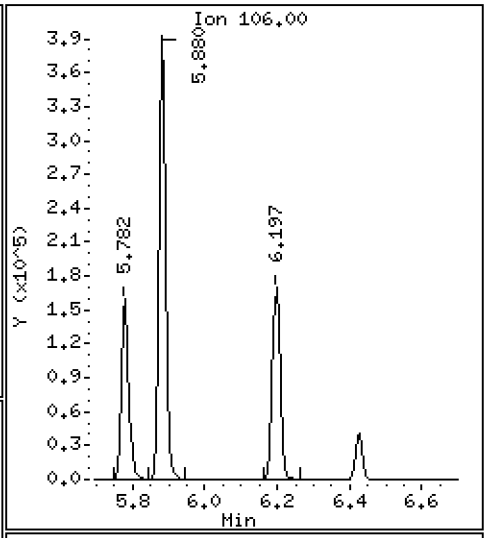
Sample Info: 1236;;1;1;3;;;

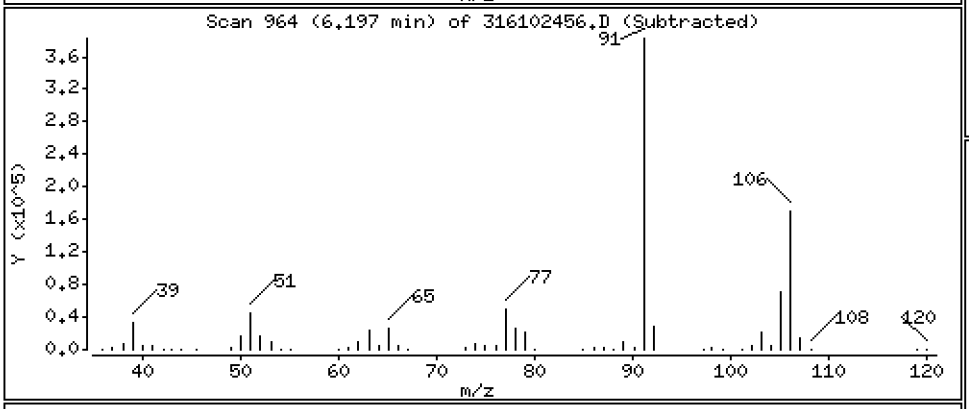
Purge Volume: 5.0 Operator: CJG

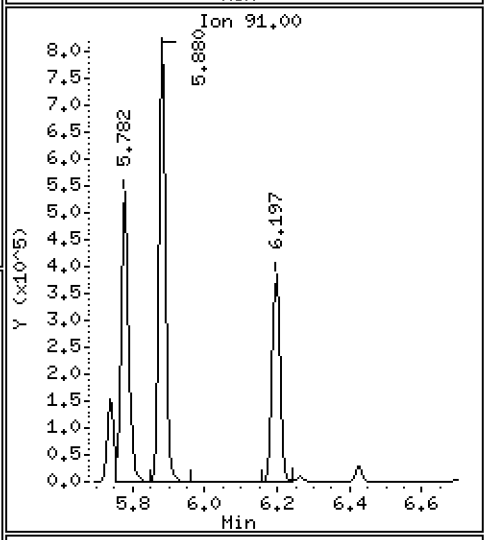
Column phase: DB-VRX Column diameter: 0.25

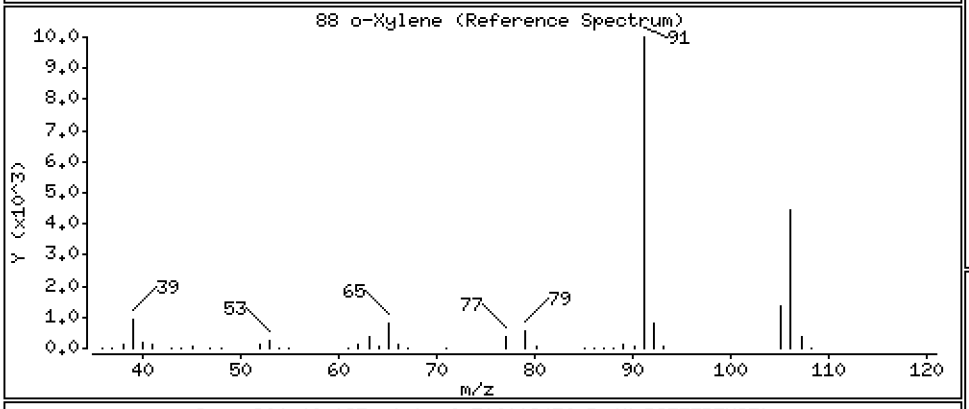
88 o-Xylene Concentration: 19.7110 ug/L

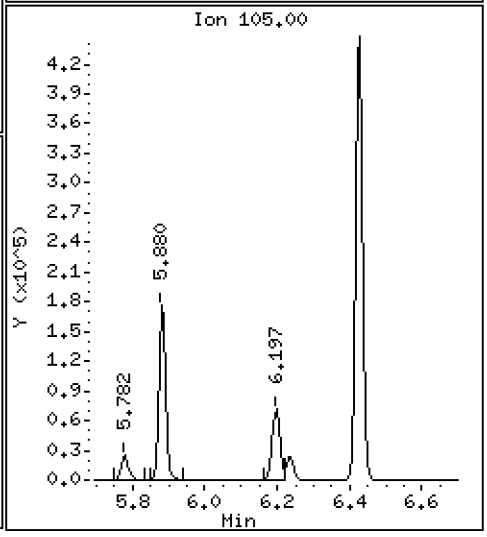


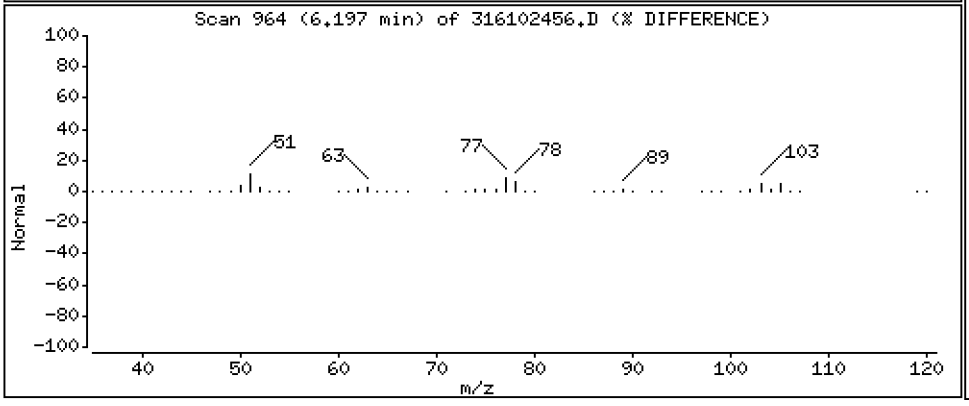












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 92

Date : 25-OCT-2016 00:30

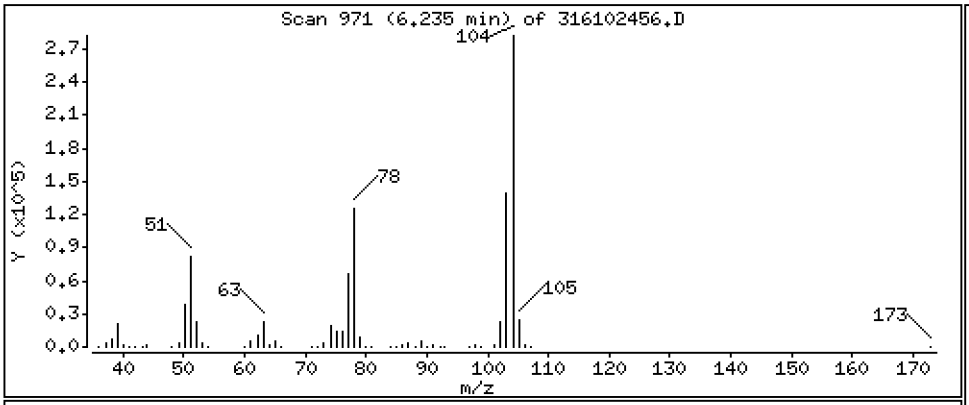
Client ID: Instrument: ms03.i

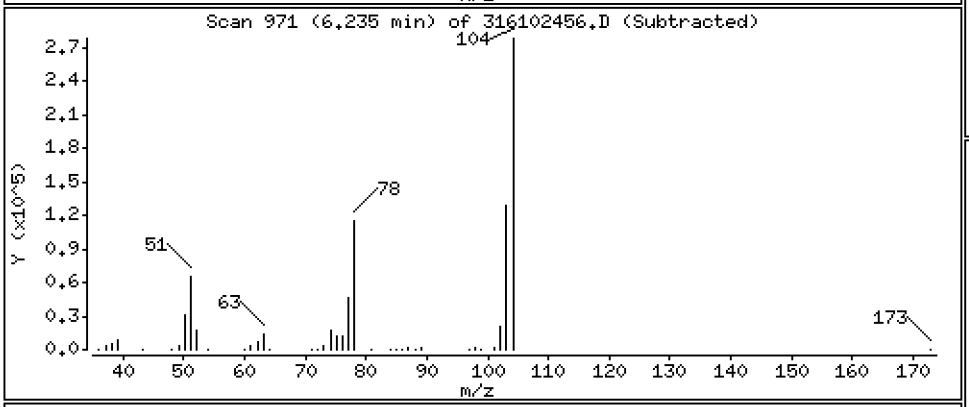
Sample Info: 1236;;1;1;3;;;

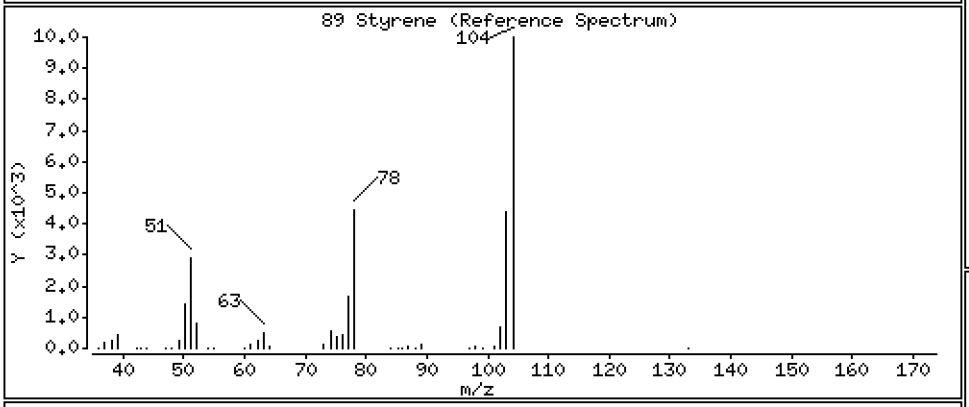
Purge Volume: 5.0 Operator: CJG

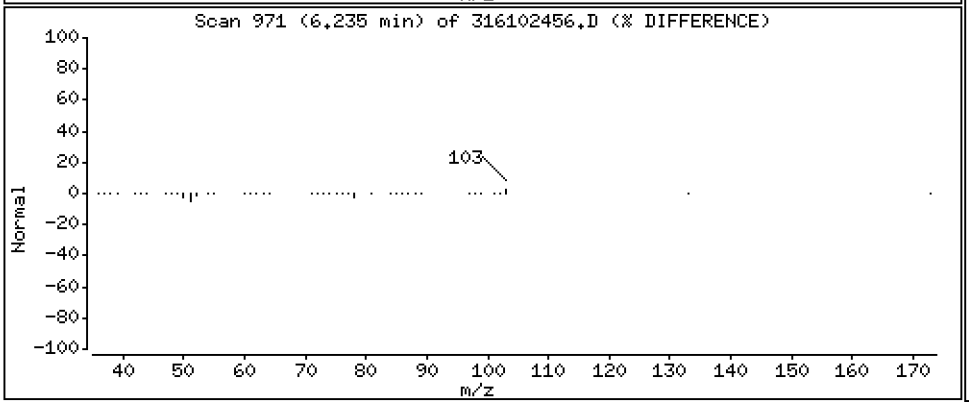
Column phase: DB-VRX Column diameter: 0.25

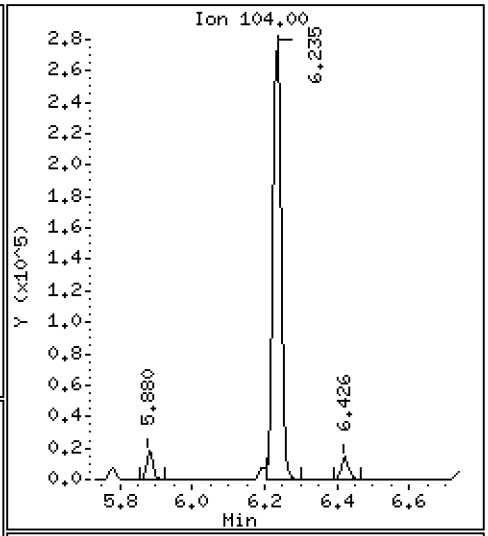
89 Styrene Concentration: 20.1189 ug/L

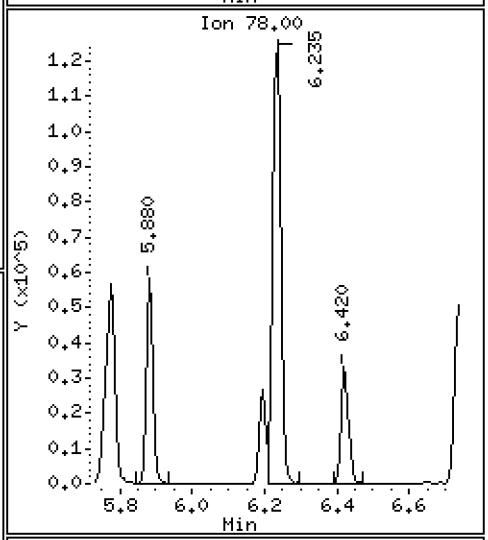


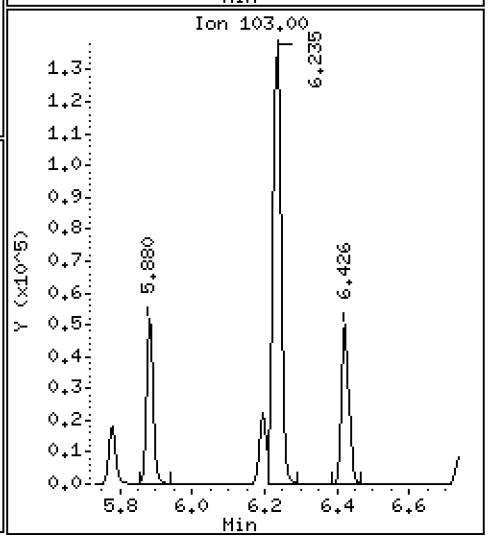












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 93

Date : 25-OCT-2016 00:30

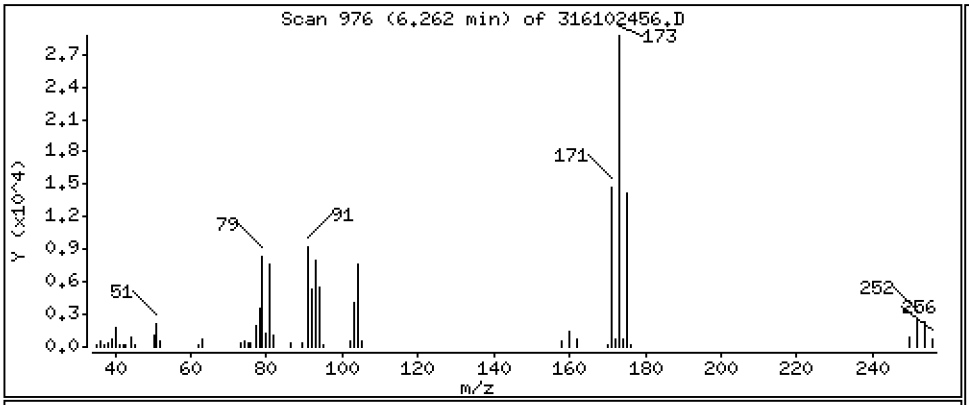
Client ID: Instrument: ms03.i

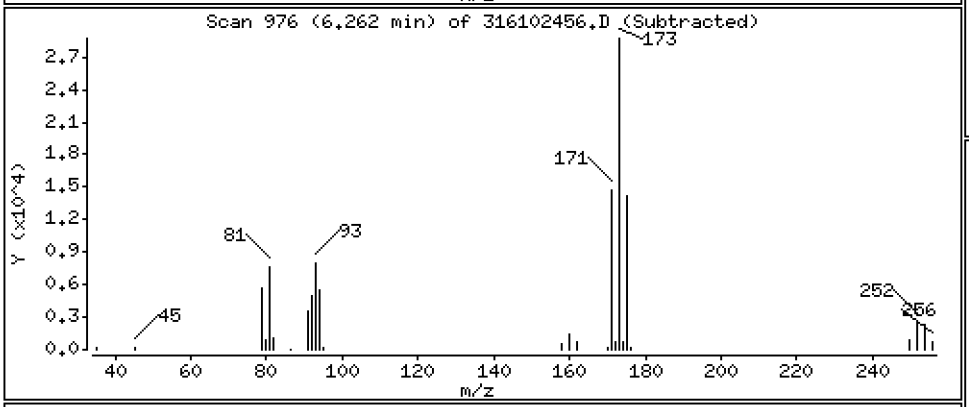
Sample Info: 1236;;1;1;3;;;

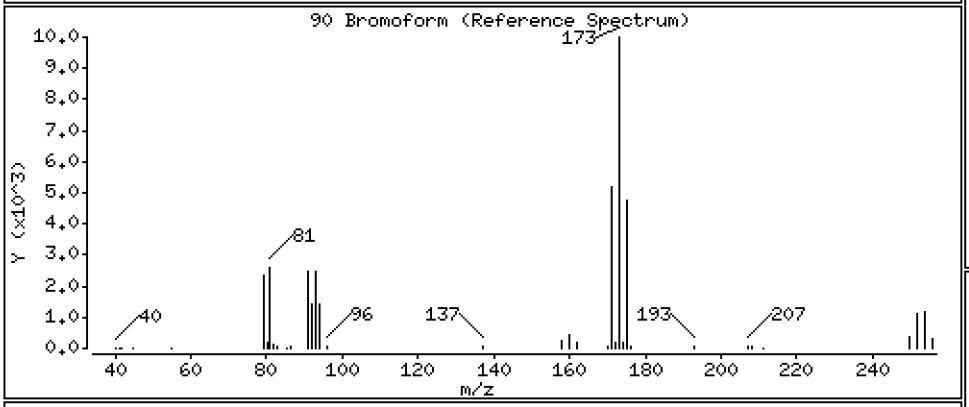
Purge Volume: 5.0 Operator: CJG

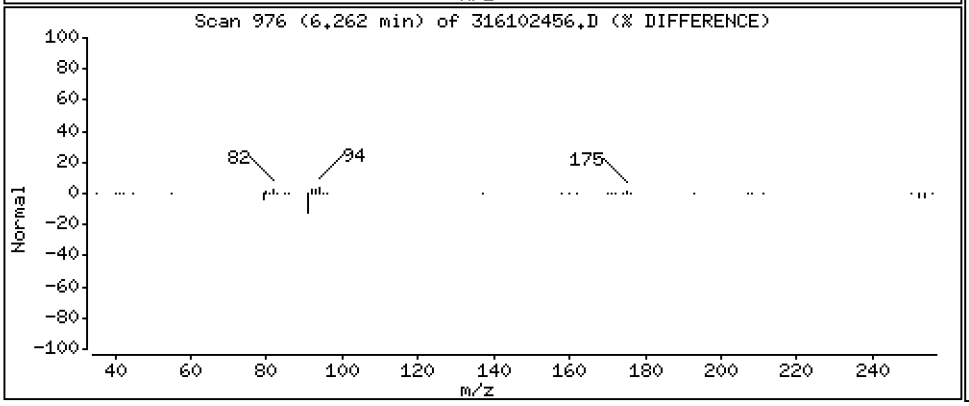
Column phase: DB-VRX Column diameter: 0.25

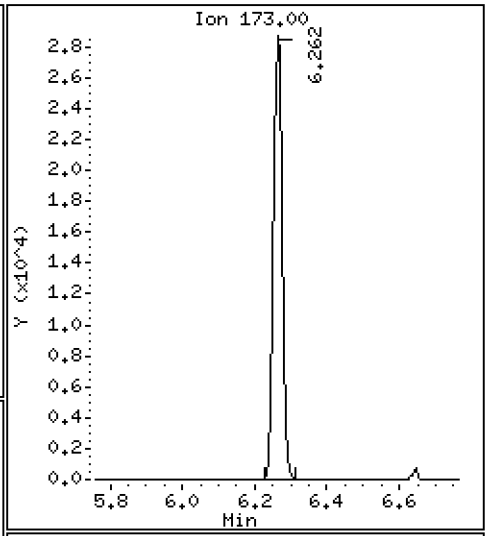
90 Bromoform Concentration: 18.1111 ug/L

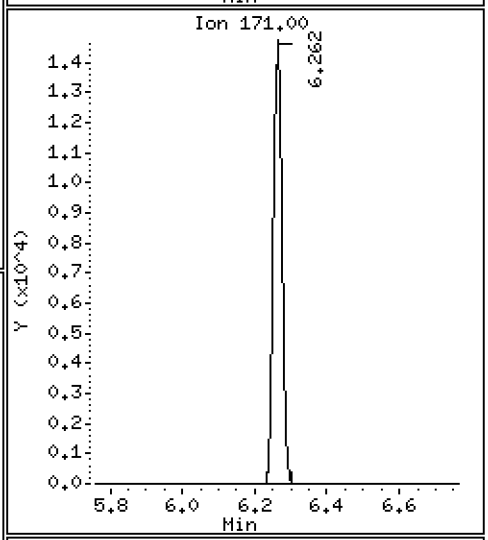


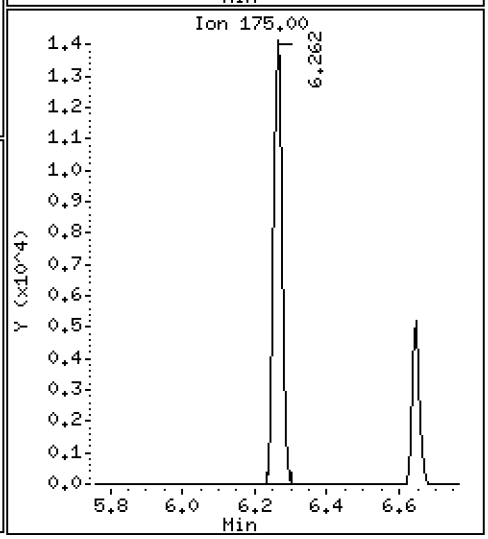












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 94

Date : 25-OCT-2016 00:30

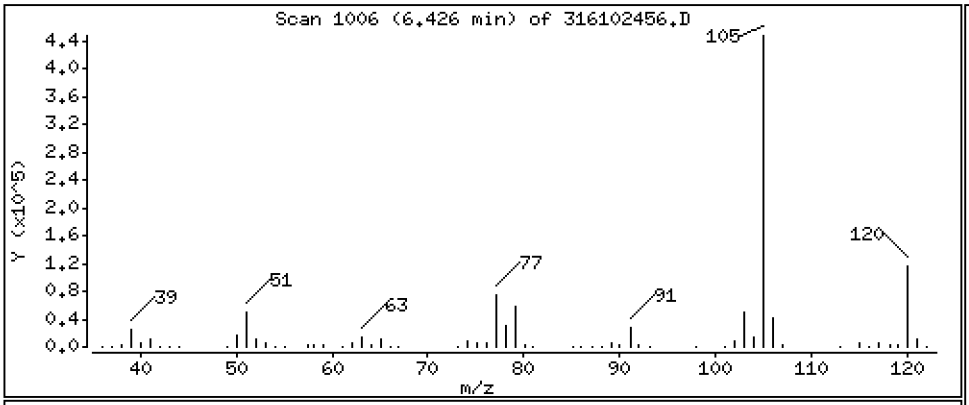
Client ID: Instrument: ms03.i

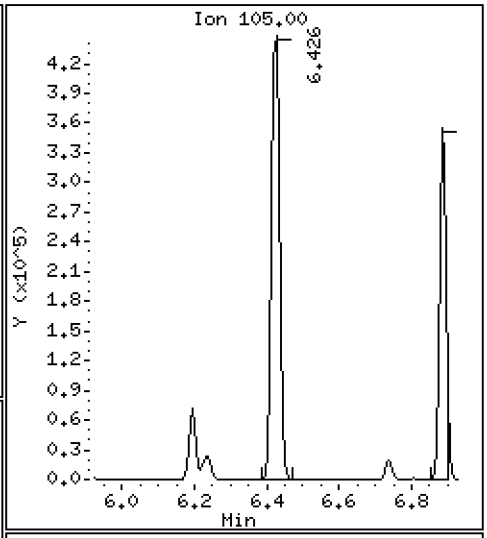
Sample Info: 1236;;1;1;3;;;

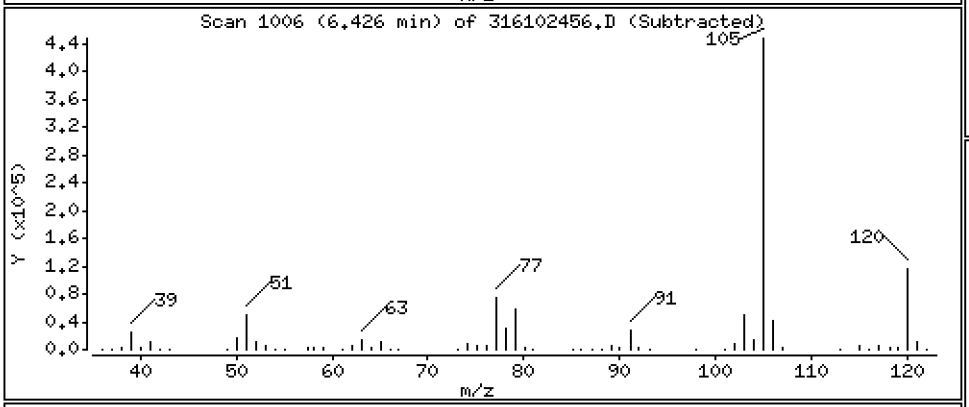
Purge Volume: 5.0 Operator: CJG

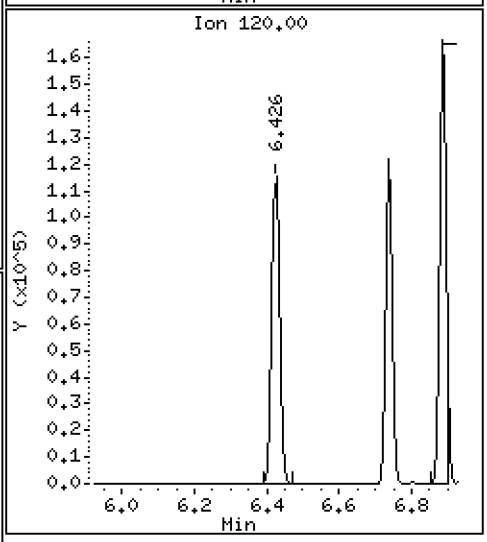
Column phase: DB-VRX Column diameter: 0.25

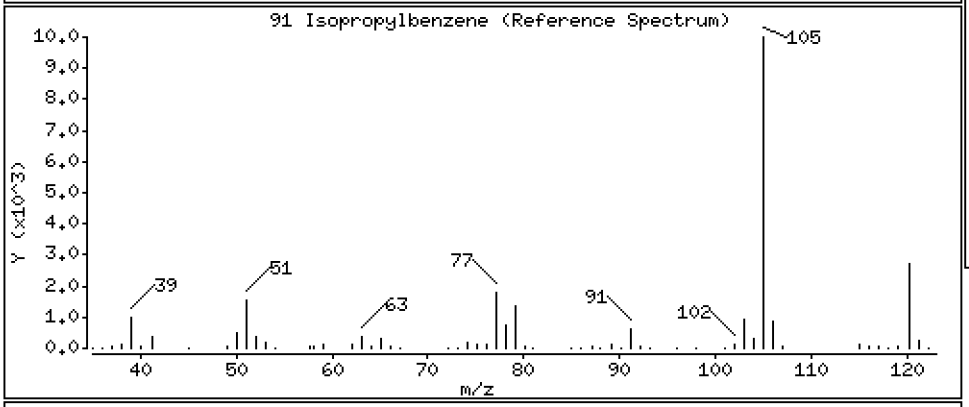
91 Isopropylbenzene Concentration: 21.1345 ug/L

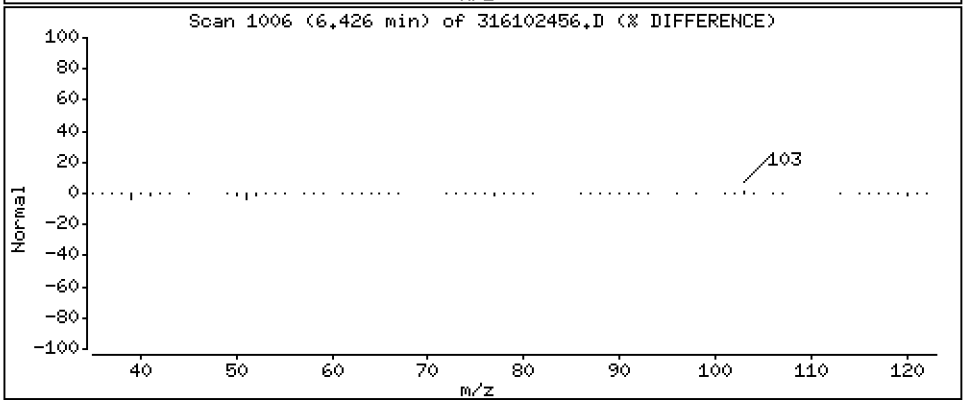












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 95

Date : 25-OCT-2016 00:30

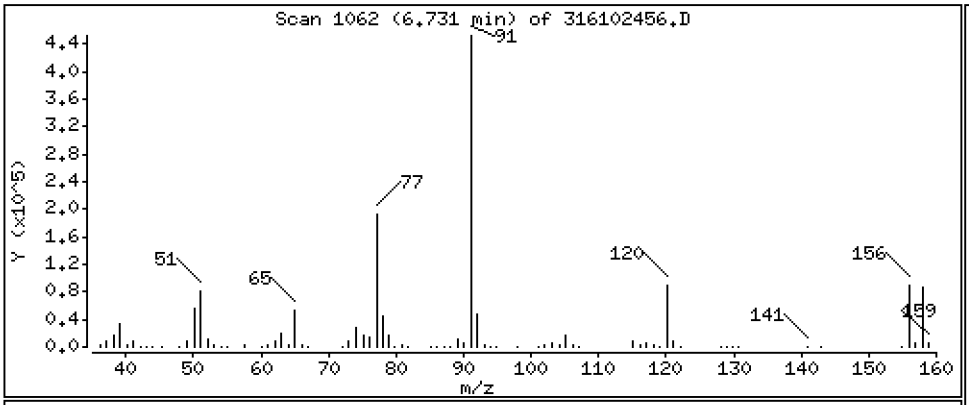
Client ID: Instrument: ms03.i

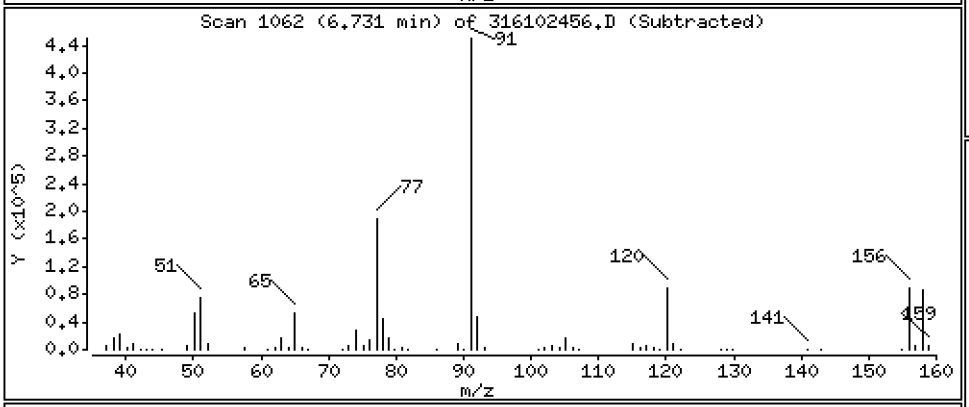
Sample Info: 1236;;1;1;3;;;

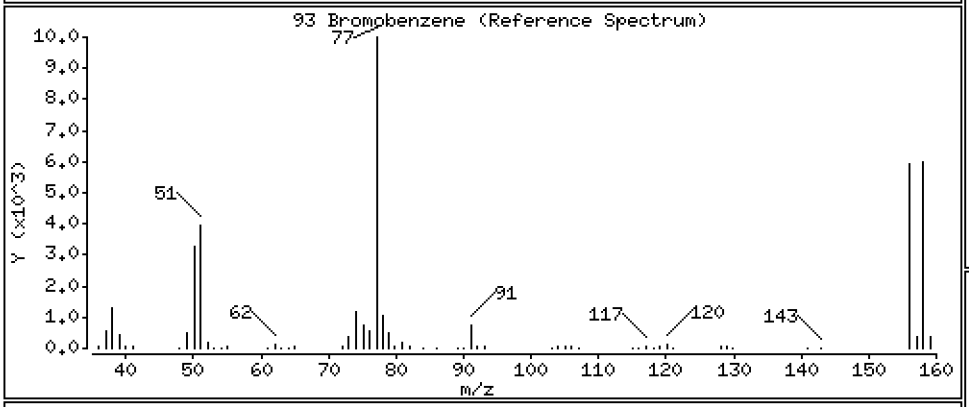
Purge Volume: 5.0 Operator: CJG

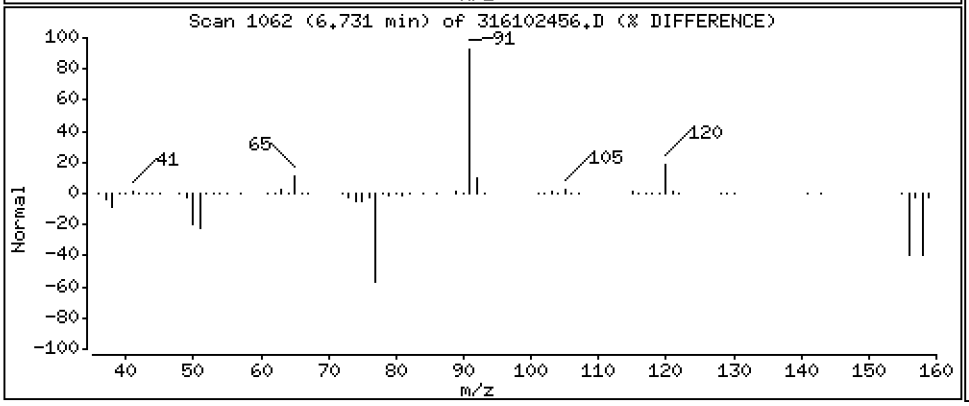
Column phase: DB-VRX Column diameter: 0.25

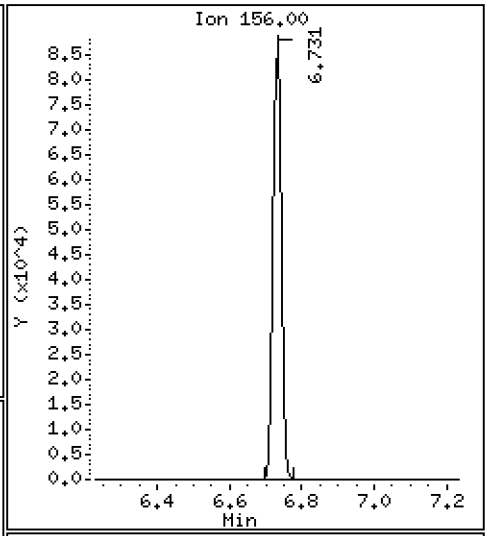
93 Bromobenzene Concentration: 20.7845 ug/L

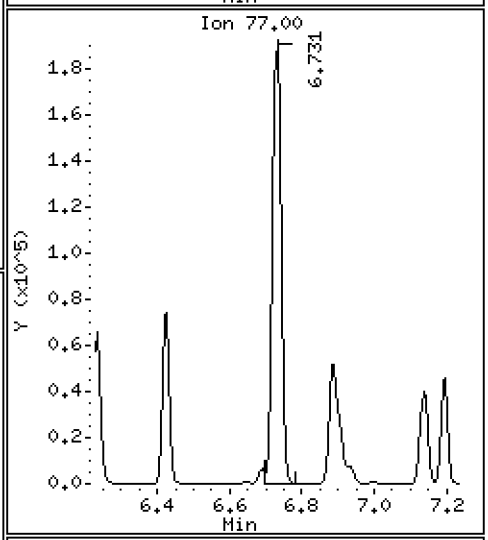


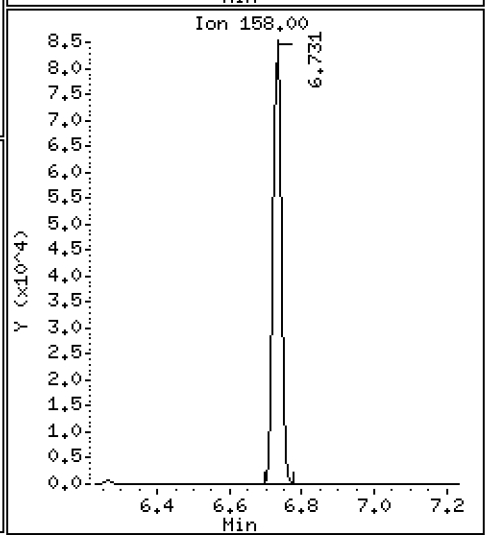












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 96

Date : 25-OCT-2016 00:30

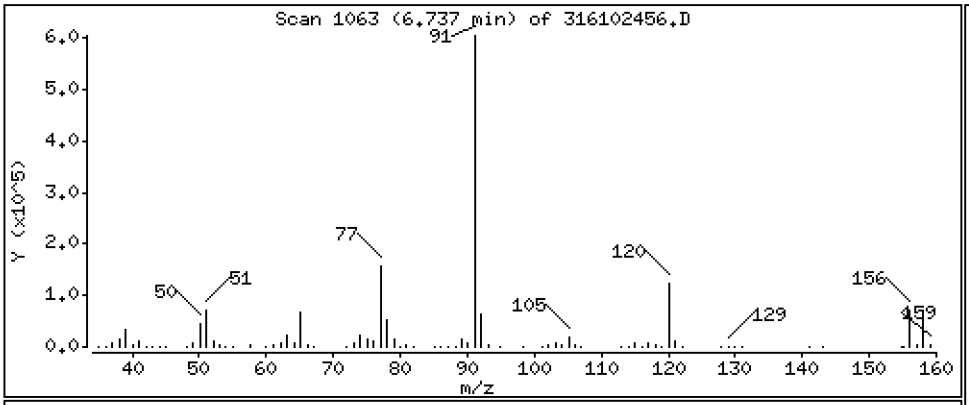
Client ID: Instrument: ms03.i

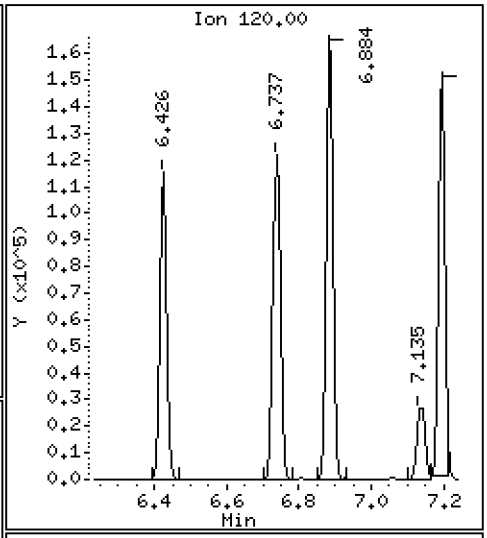
Sample Info: 1236;;1;1;3;;;

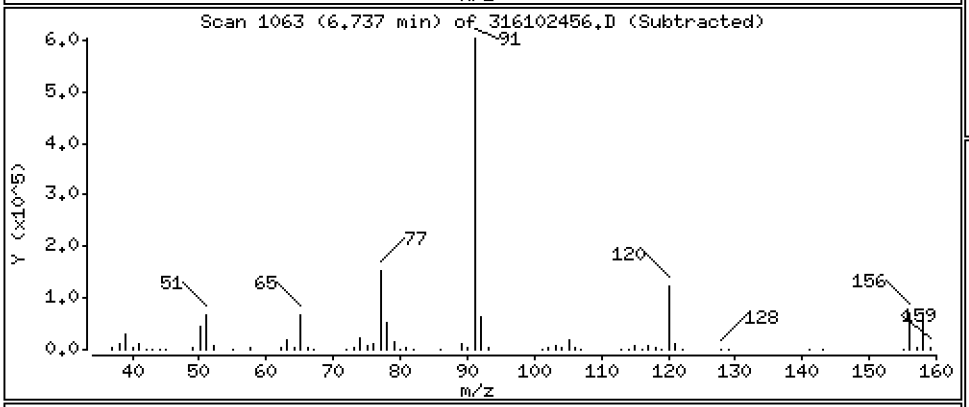
Purge Volume: 5.0 Operator: CJG

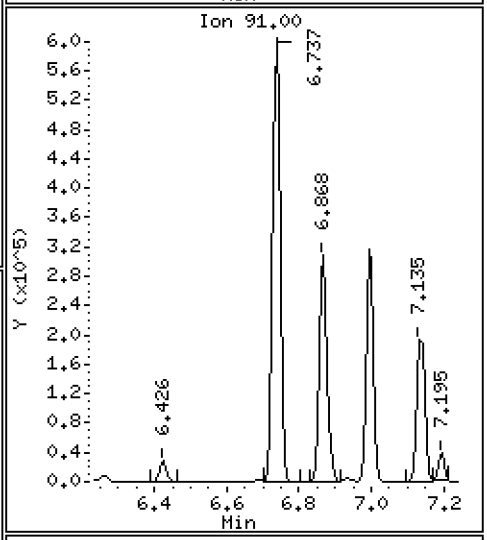
Column phase: DB-VRX Column diameter: 0.25

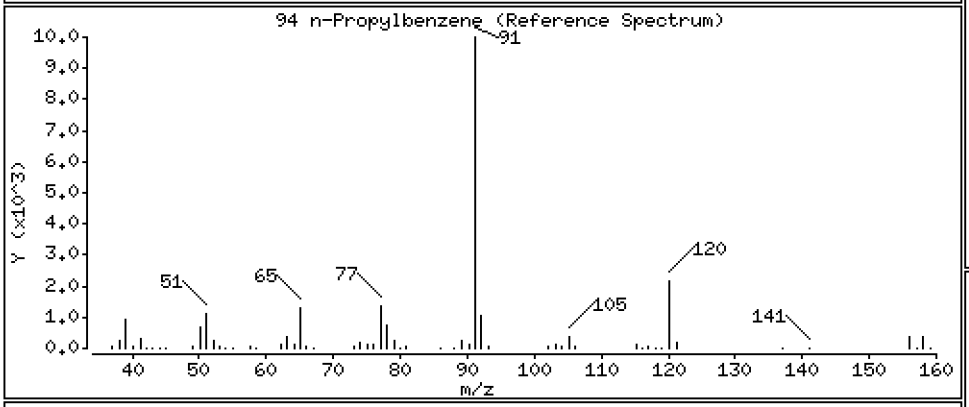
94 n-Propylbenzene Concentration: 21.3643 ug/L

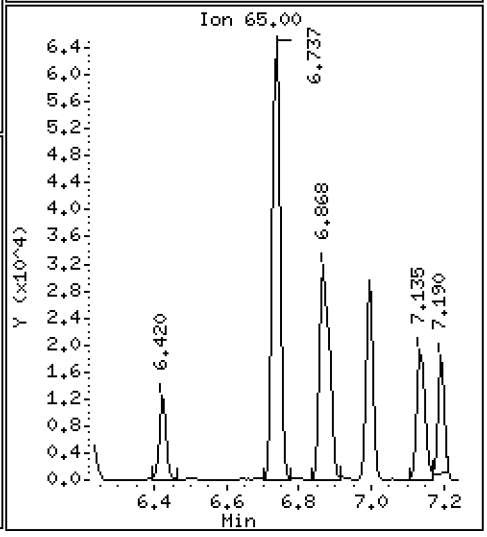


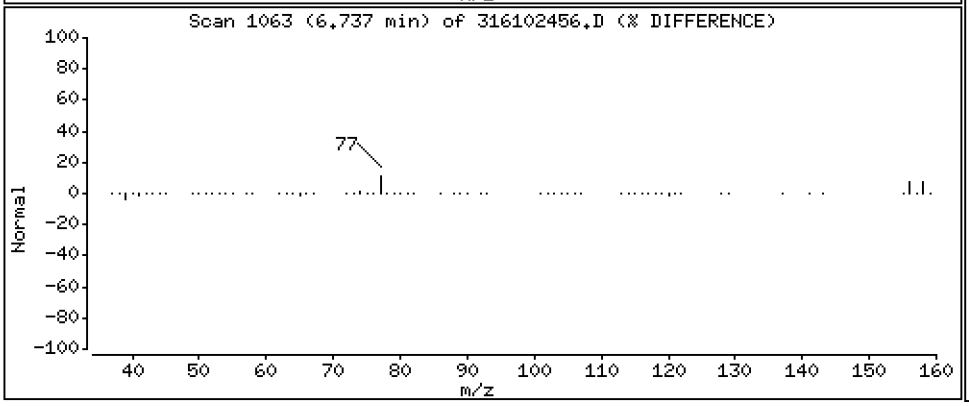












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 97

Date : 25-OCT-2016 00:30

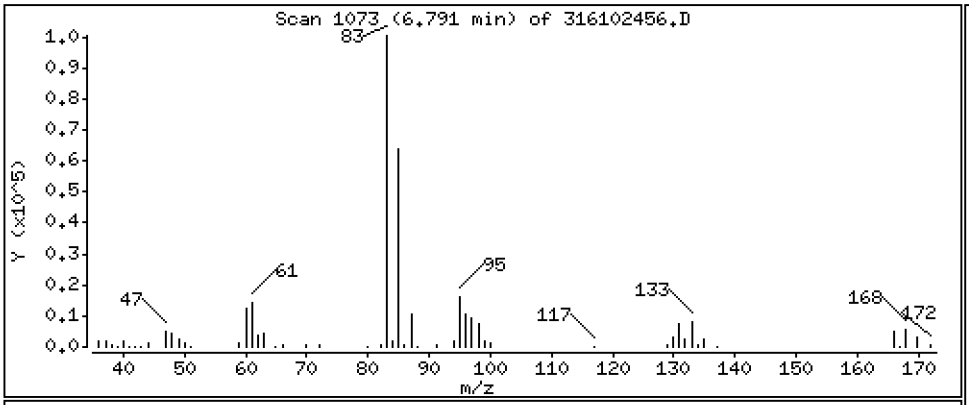
Client ID: Instrument: ms03.i

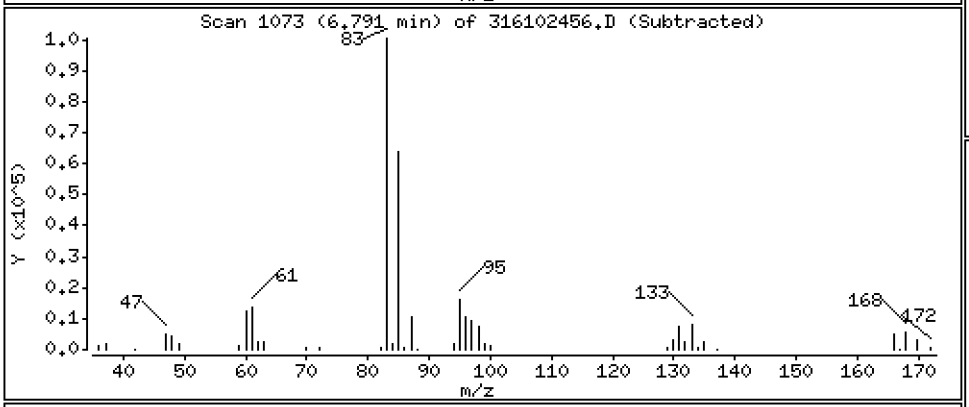
Sample Info: 1236;;1;1;3;;;

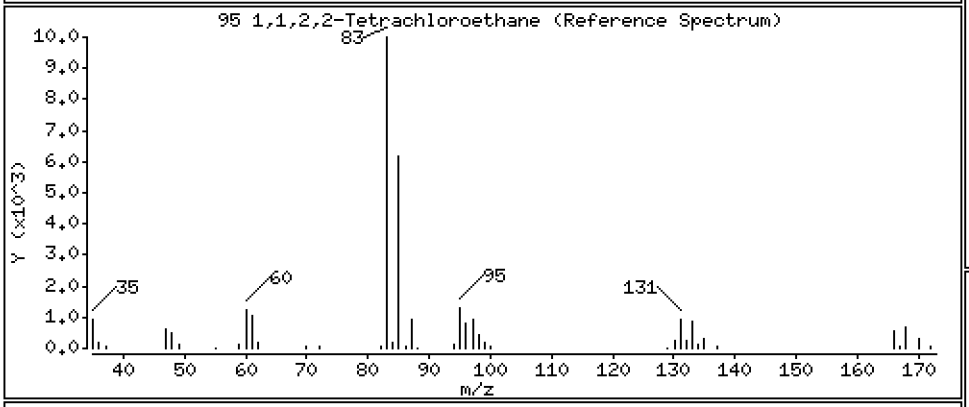
Purge Volume: 5.0 Operator: CJG

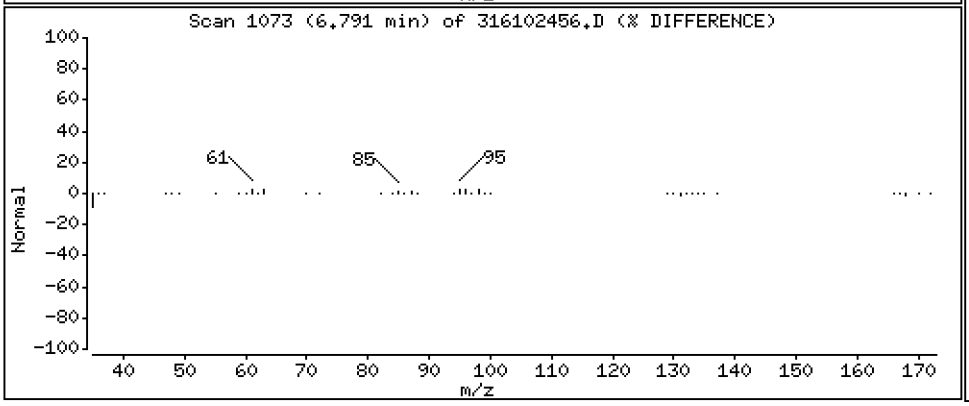
Column phase: DB-VRX Column diameter: 0.25

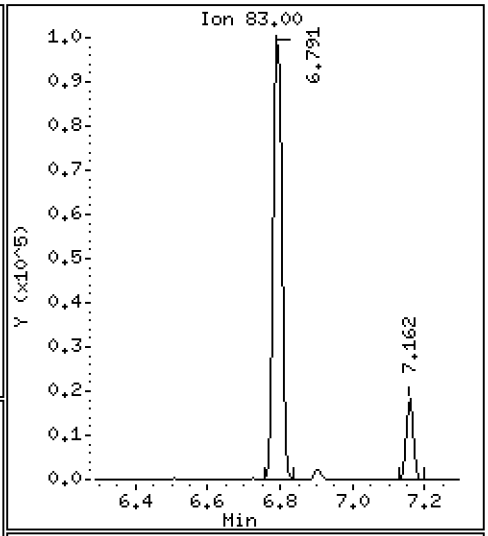
95 1,1,2,2-Tetrachloroethane Concentration: 20.3832 ug/L

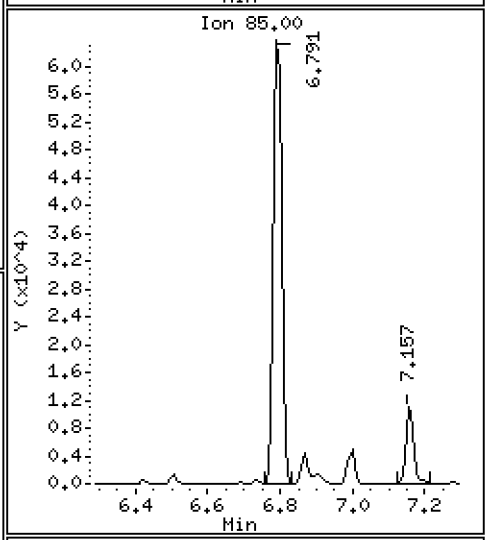


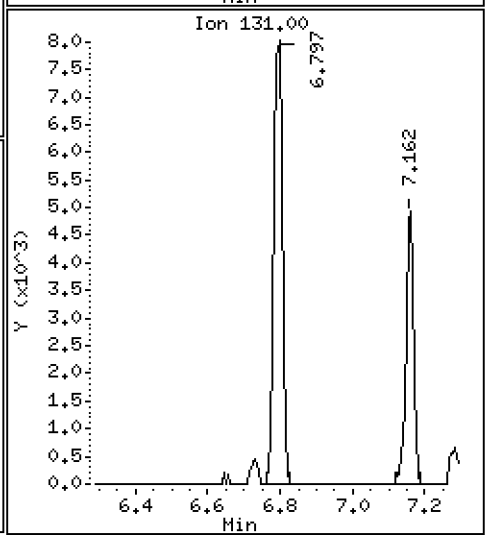












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 98

Date : 25-OCT-2016 00:30

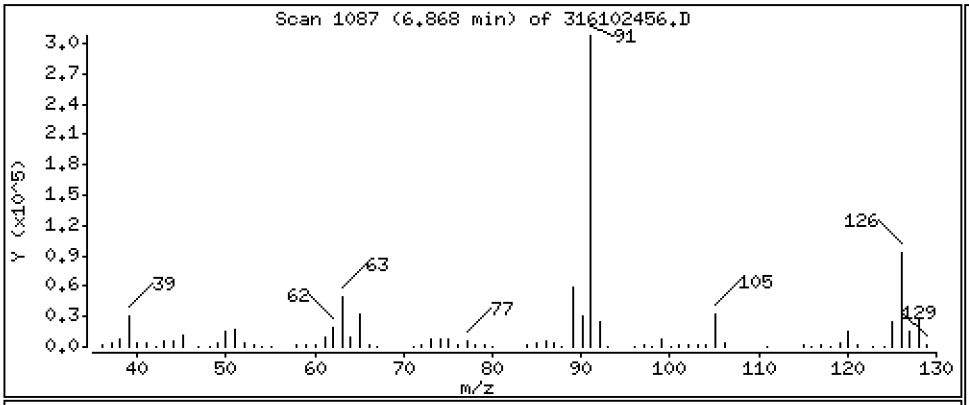
Client ID: Instrument: ms03.i

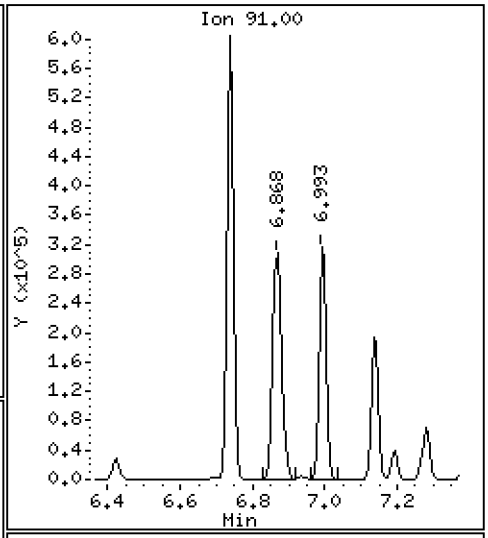
Sample Info: 1236;;1;1;3;;;

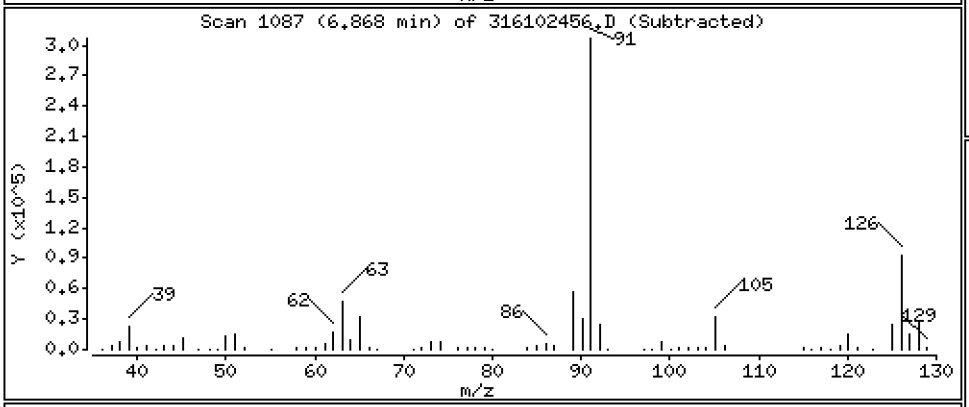
Purge Volume: 5.0 Operator: CJG

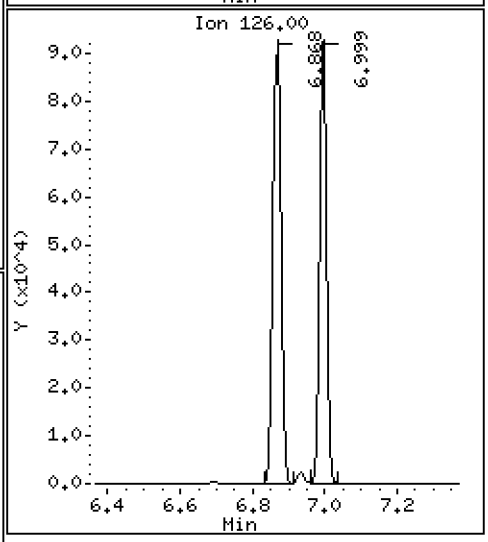
Column phase: DB-VRX Column diameter: 0.25

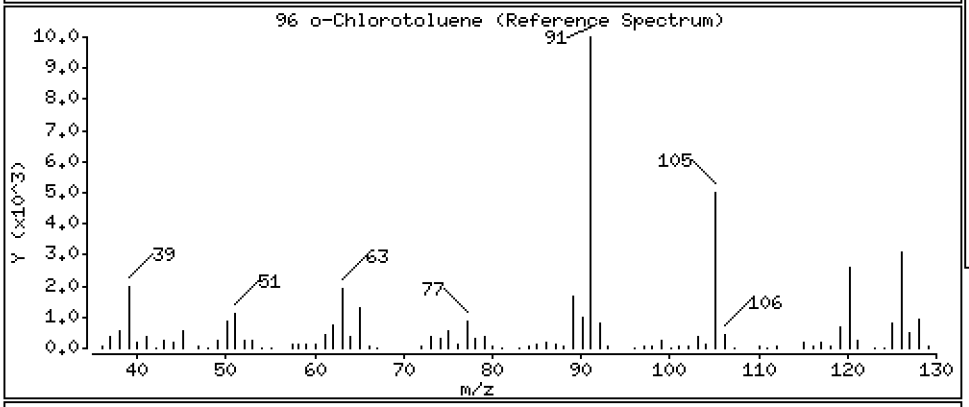
96 o-Chlorotoluene Concentration: 20.9538 ug/L

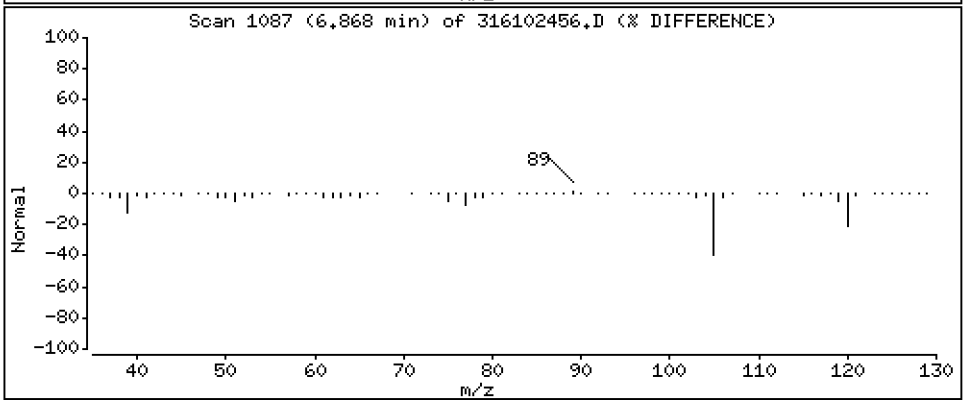












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 99

Date : 25-OCT-2016 00:30

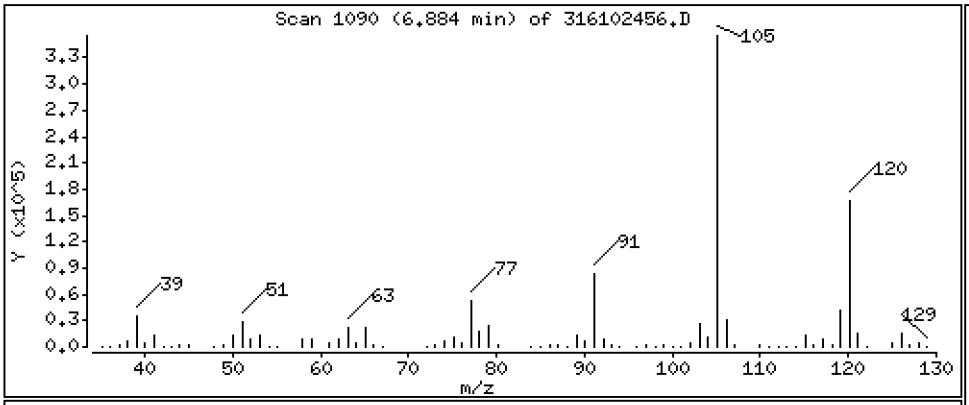
Client ID: Instrument: ms03.i

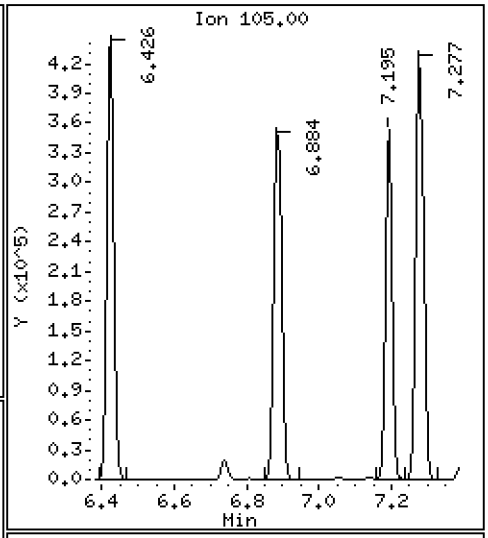
Sample Info: 1236;;1;1;3;;;

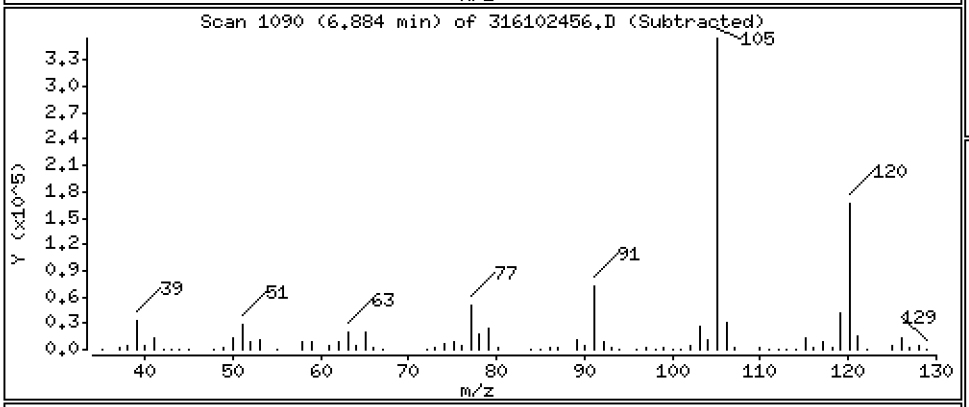
Purge Volume: 5.0 Operator: CJG

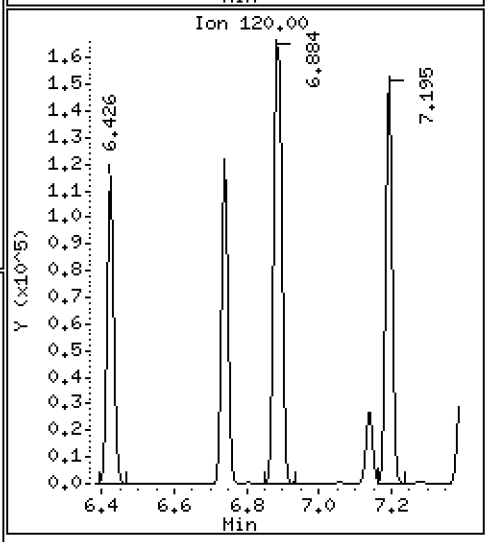
Column phase: DB-VRX Column diameter: 0.25

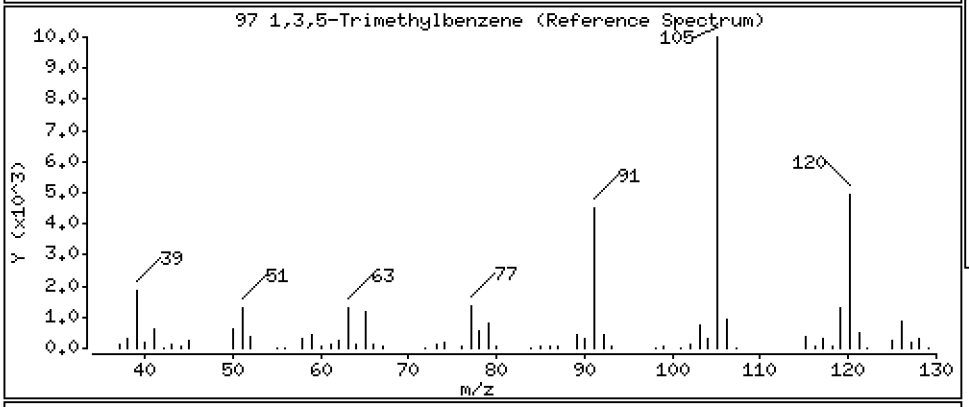
97 1,3,5-Trimethylbenzene Concentration: 21.0203 ug/L

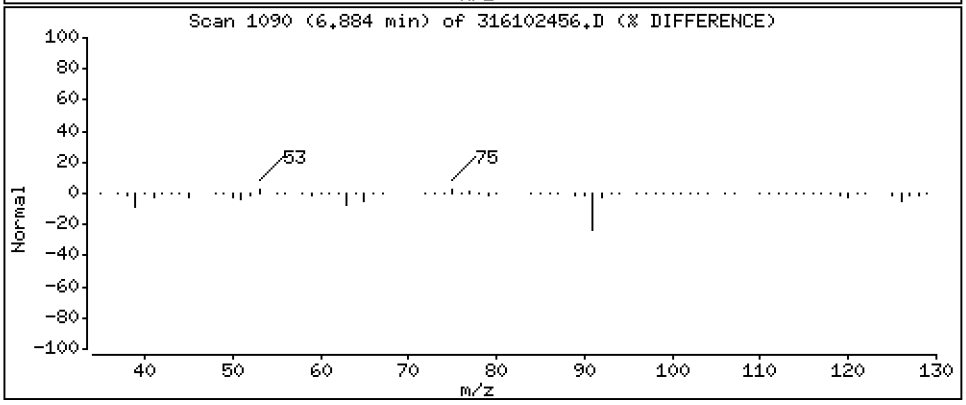












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 100

Date : 25-OCT-2016 00:30

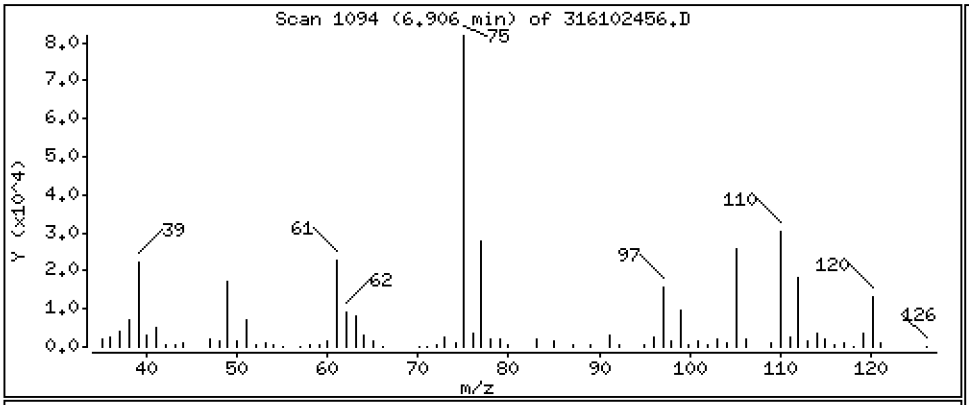
Client ID: Instrument: ms03.i

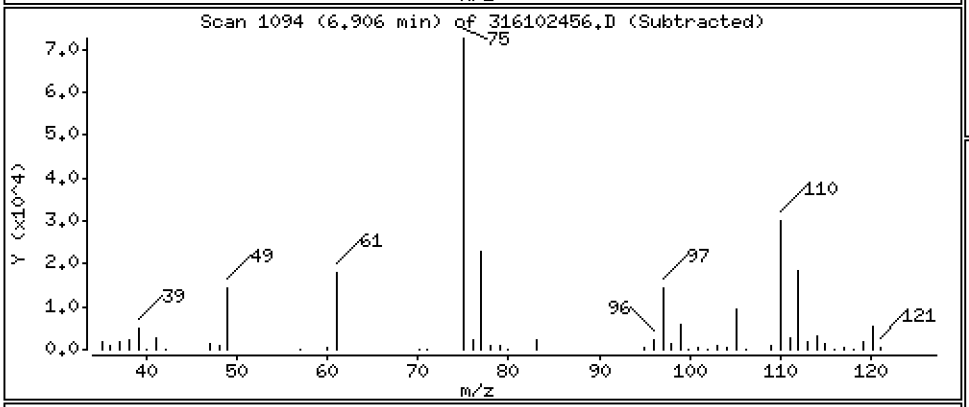
Sample Info: 1236;;1;1;3;;;

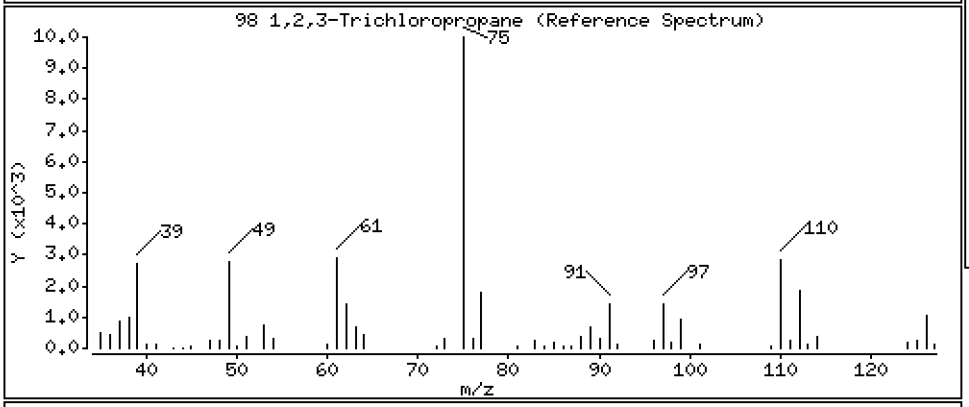
Purge Volume: 5.0 Operator: CJG

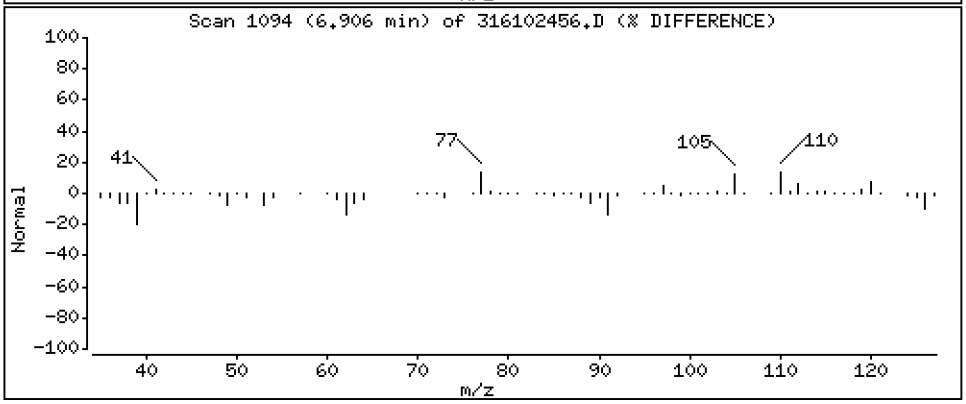
Column phase: DB-VRX Column diameter: 0.25

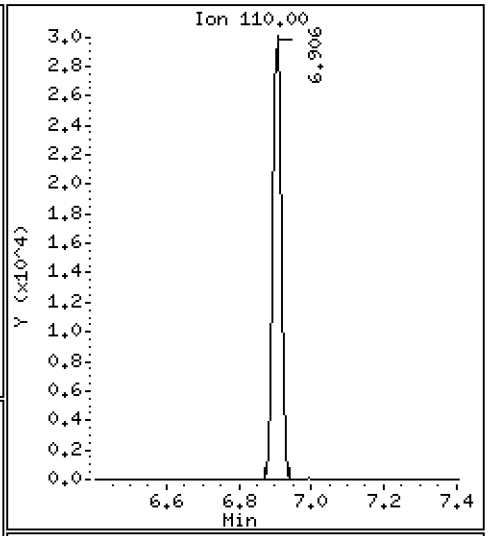
98 1,2,3-Trichloropropane Concentration: 20.9866 ug/L

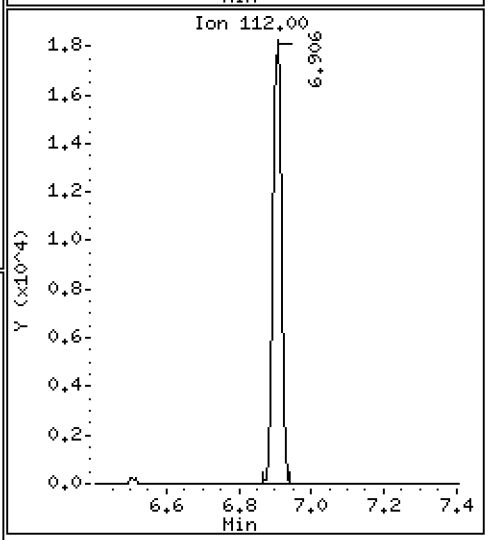












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 101

Date : 25-OCT-2016 00:30

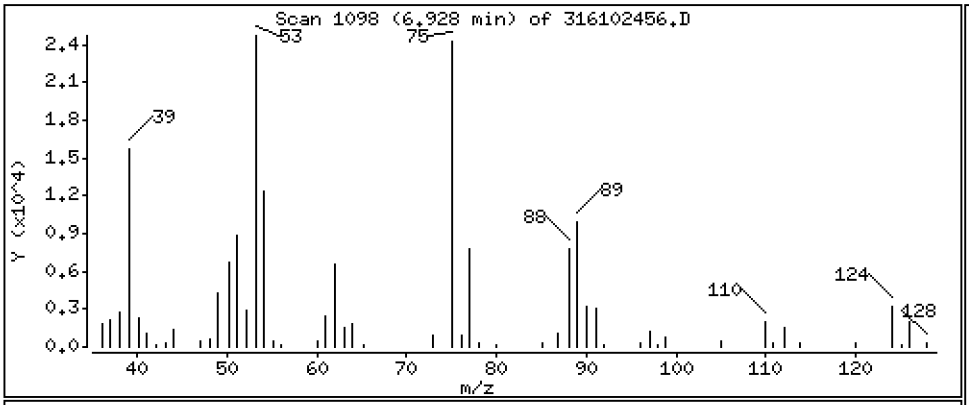
Client ID: Instrument: ms03.i

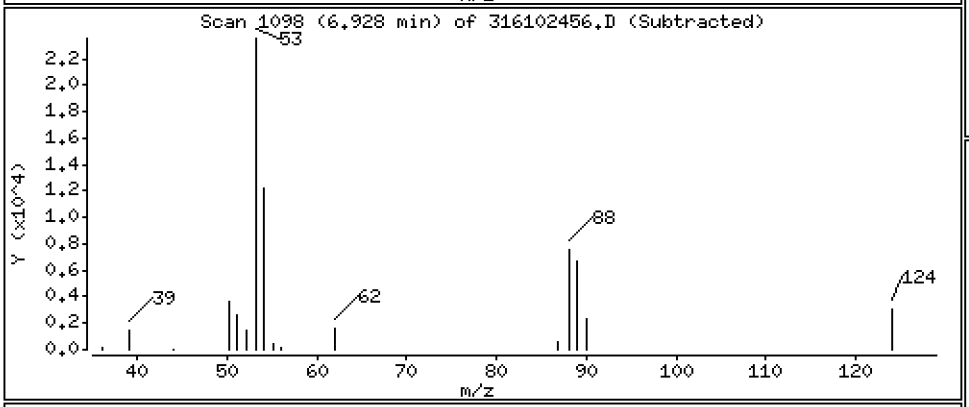
Sample Info: 1236;;1;1;3;;;

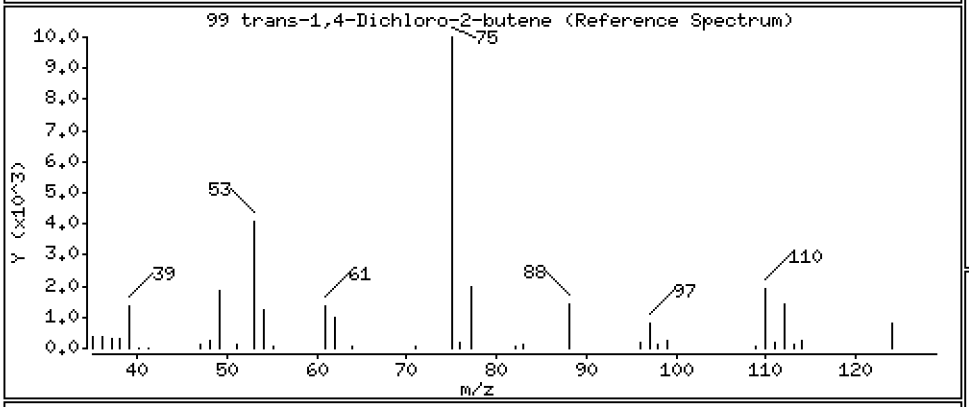
Purge Volume: 5.0 Operator: CJG

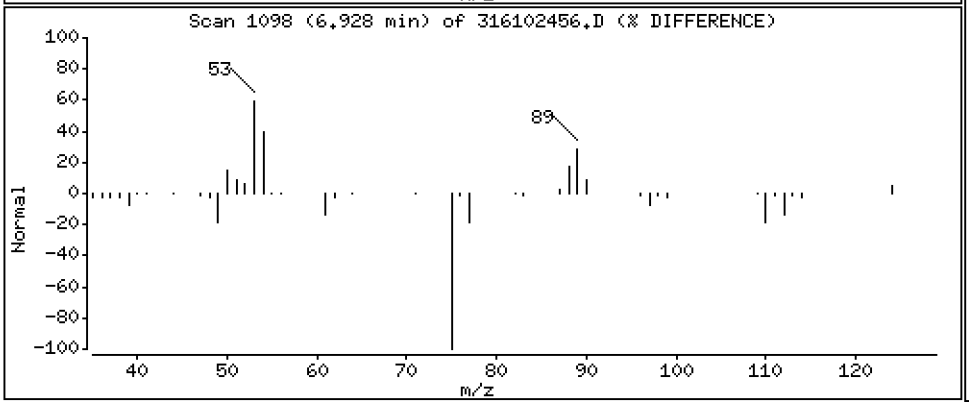
Column phase: DB-VRX Column diameter: 0.25

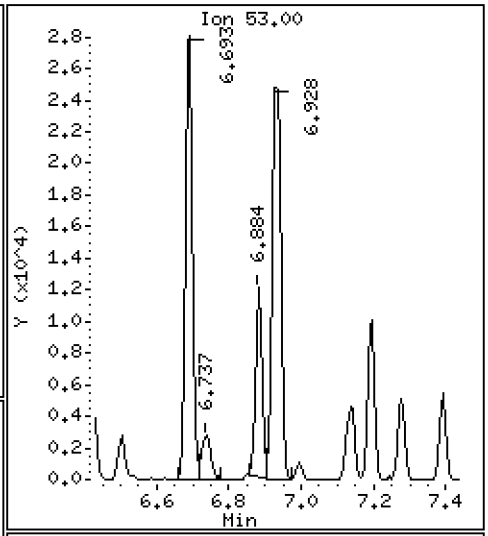
99 trans-1,4-Dichloro-2-butene Concentration: 19.1999 ug/L

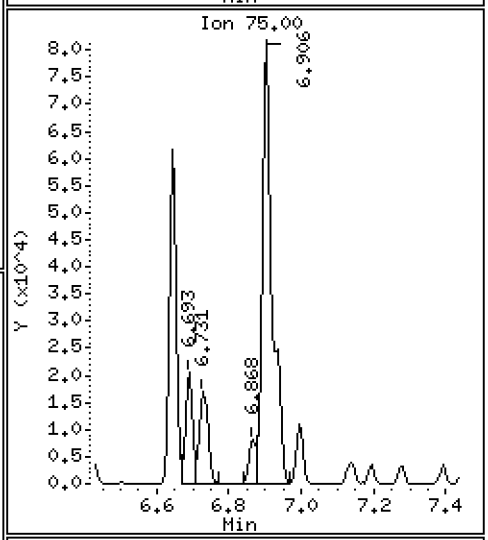


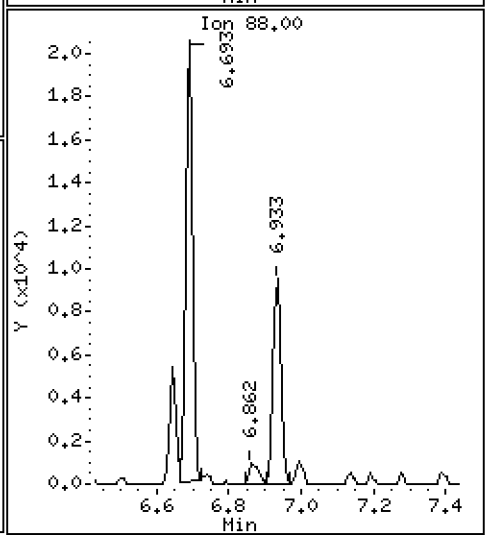












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 102

Date : 25-OCT-2016 00:30

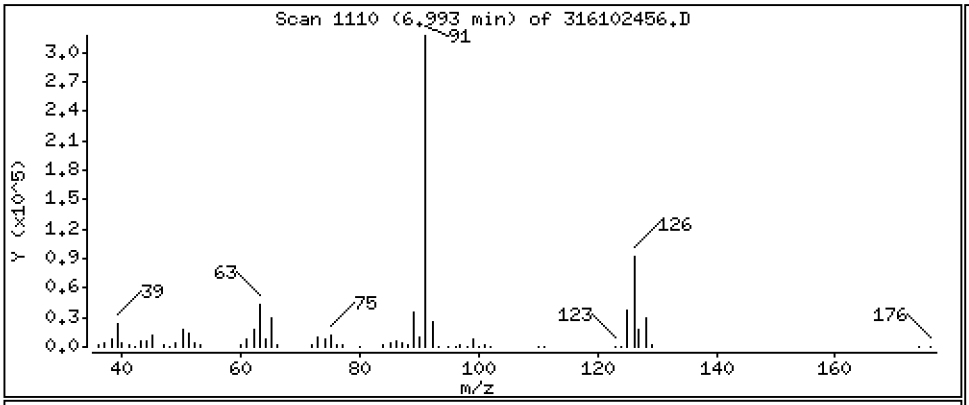
Client ID: Instrument: ms03.i

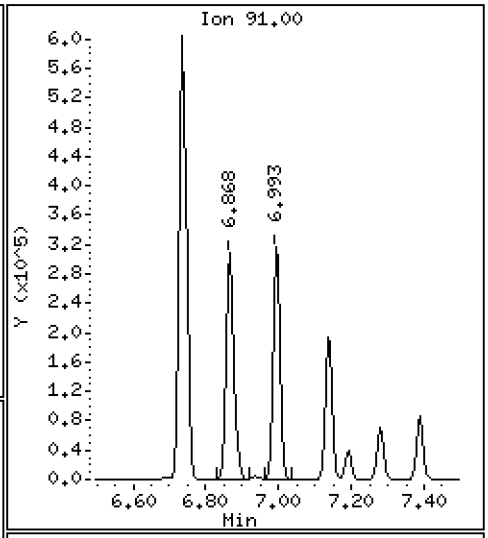
Sample Info: 1236;;1;1;3;;;

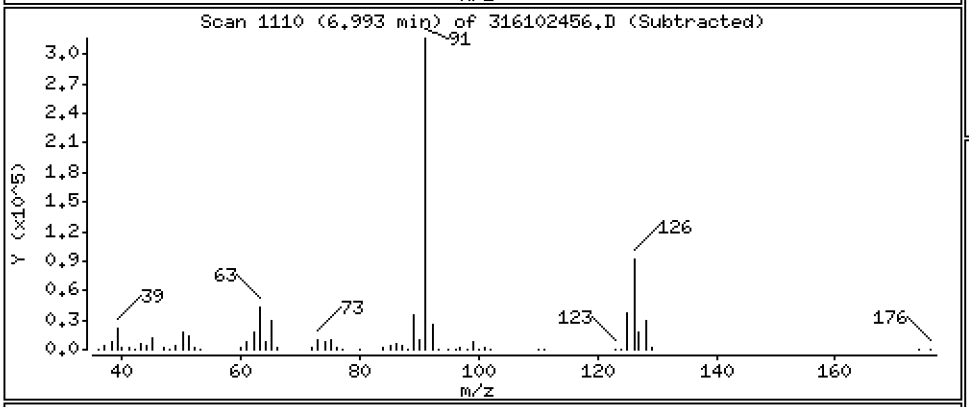
Purge Volume: 5.0 Operator: CJG

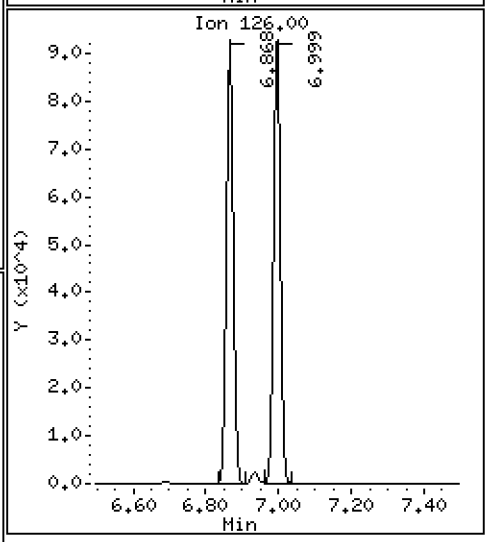
Column phase: DB-VRX Column diameter: 0.25

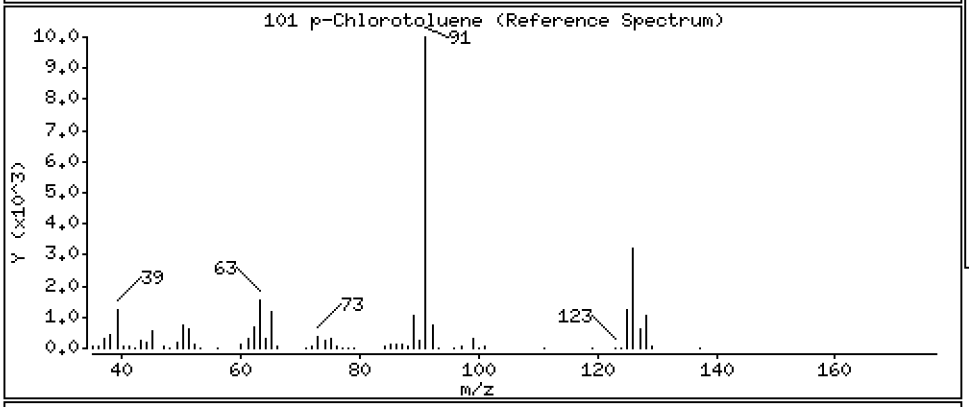
101 p-Chlorotoluene Concentration: 20.6400 ug/L

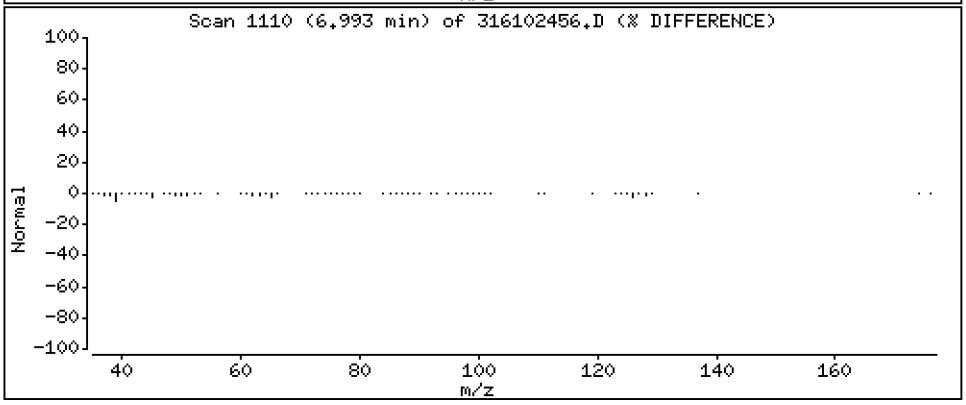












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 103

Date : 25-OCT-2016 00:30

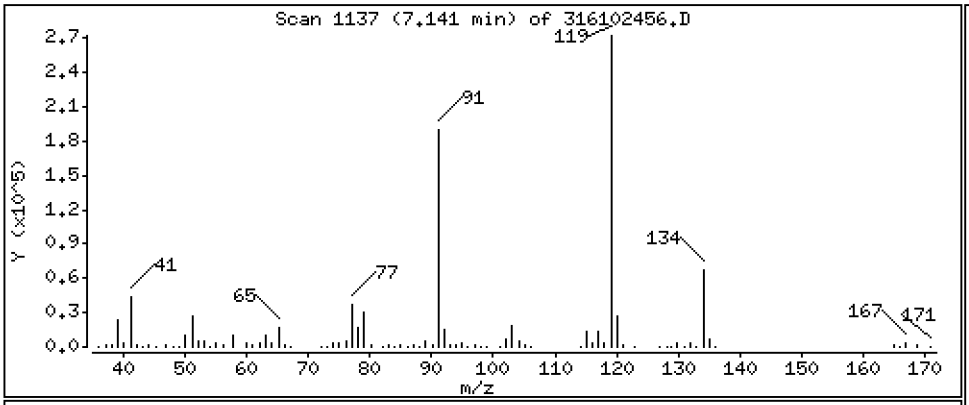
Client ID: Instrument: ms03.i

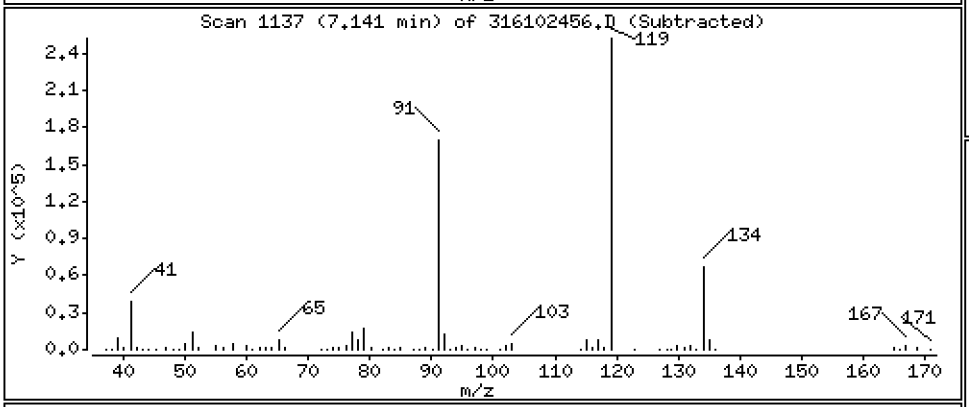
Sample Info: 1236;;1;1;3;;;

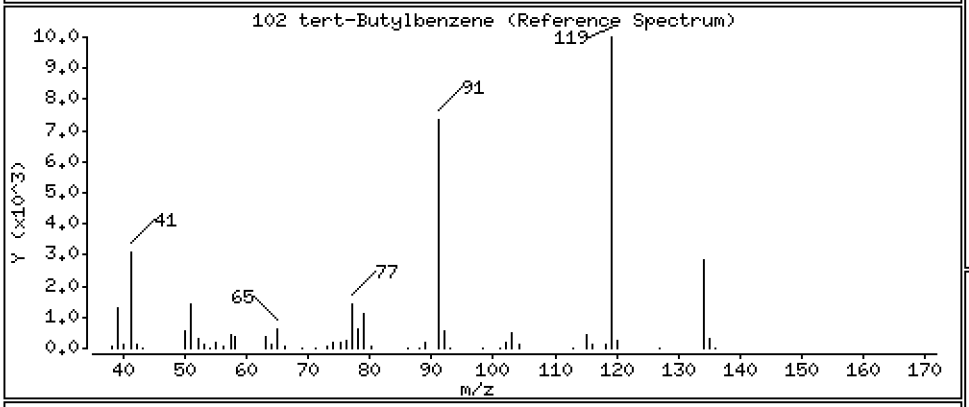
Purge Volume: 5.0 Operator: CJG

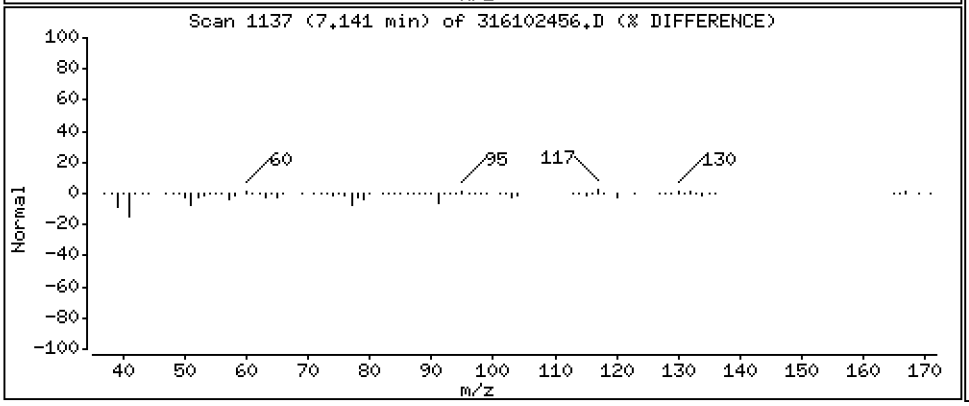
Column phase: DB-VRX Column diameter: 0.25

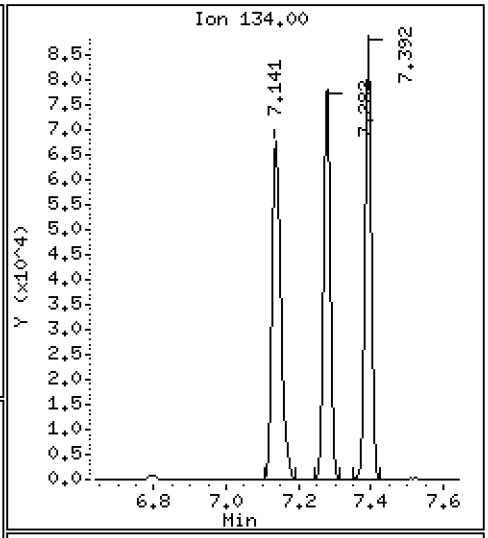
102 tert-Butylbenzene Concentration: 21.2947 ug/L

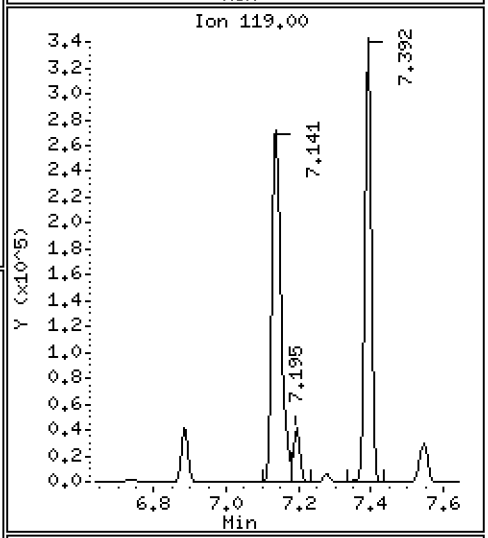


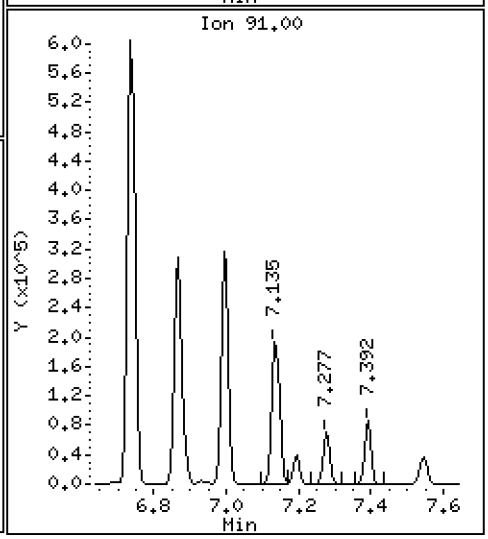












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 104

Date : 25-OCT-2016 00:30

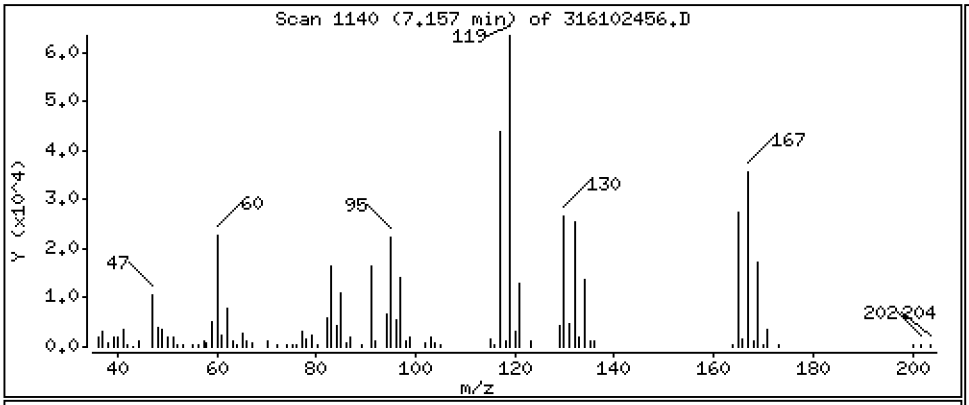
Client ID: Instrument: ms03.i

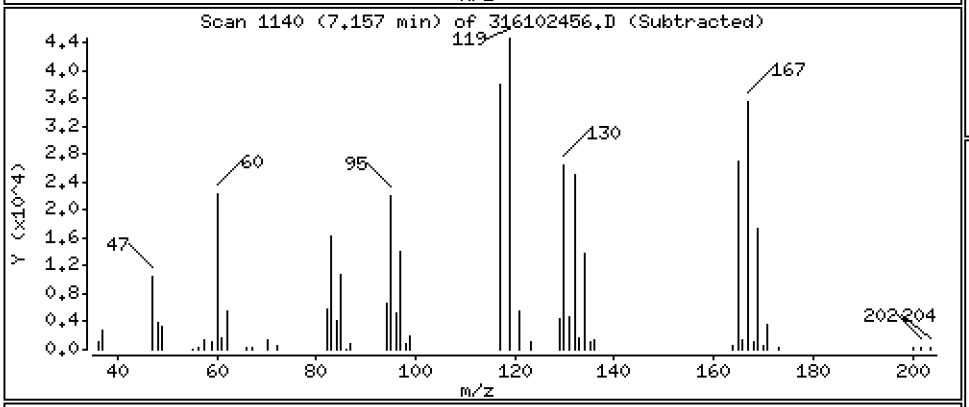
Sample Info: 1236;;1;1;3;;;

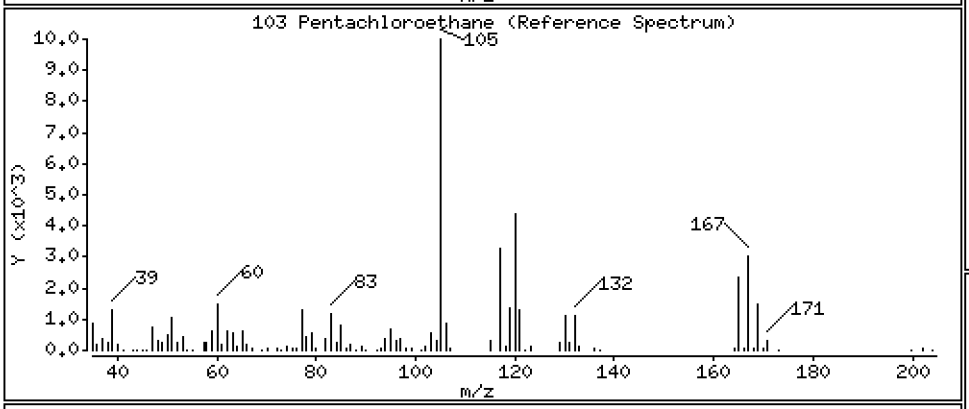
Purge Volume: 5.0 Operator: CJG

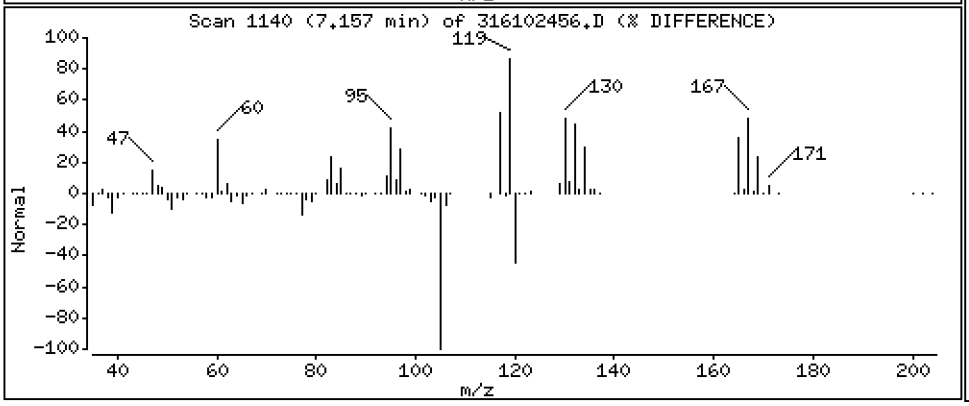
Column phase: DB-VRX Column diameter: 0.25

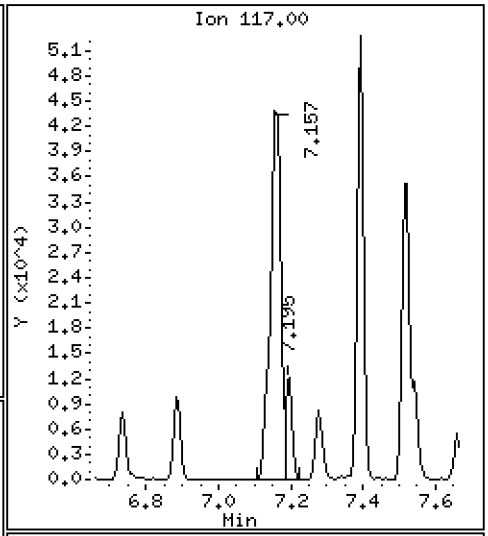
103 Pentachloroethane Concentration: 19.6821 ug/L

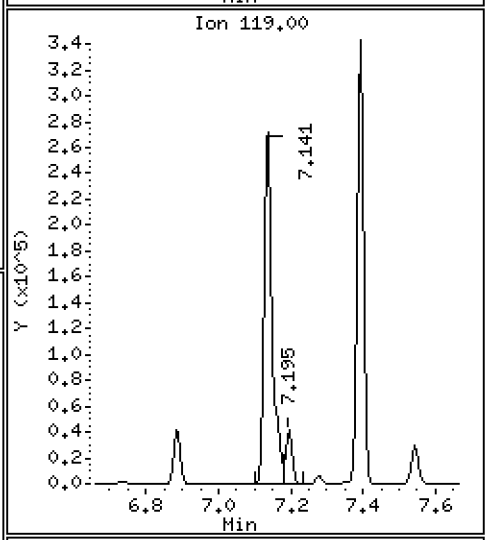


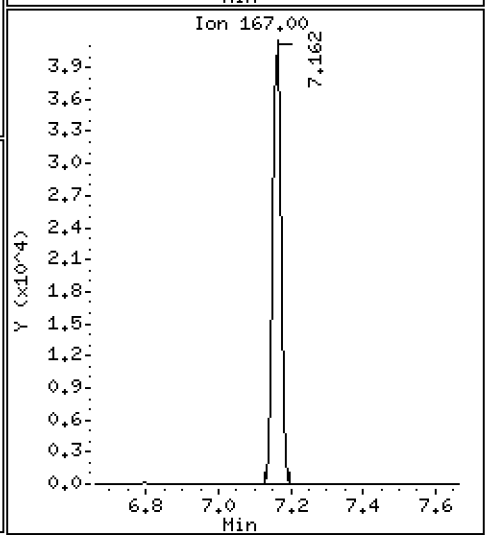












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 105

Date : 25-OCT-2016 00:30

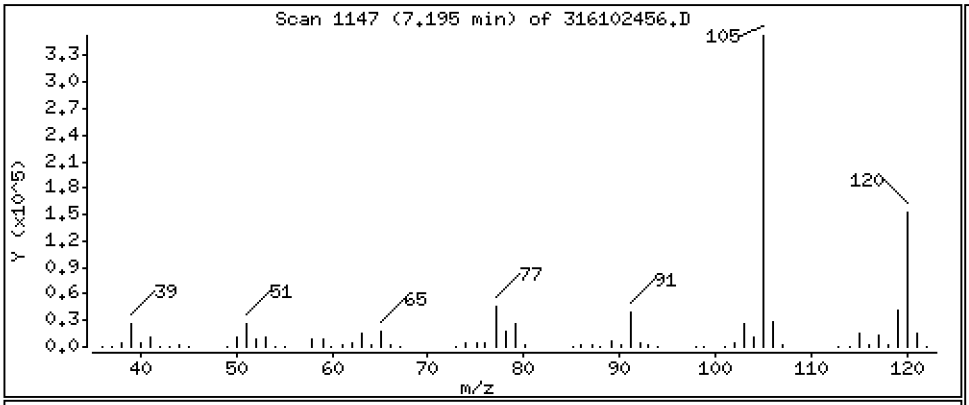
Client ID: Instrument: ms03.i

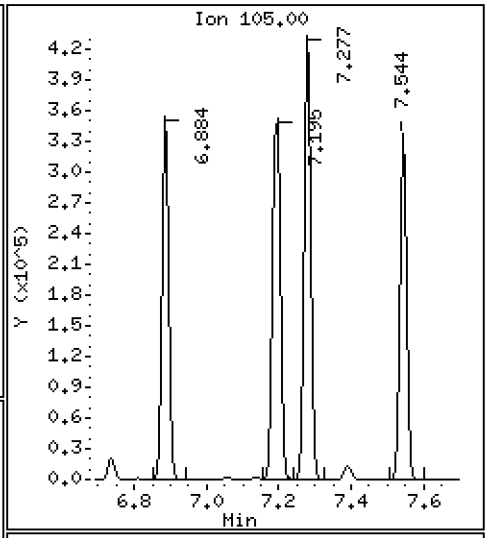
Sample Info: 1236;;1;1;3;;;

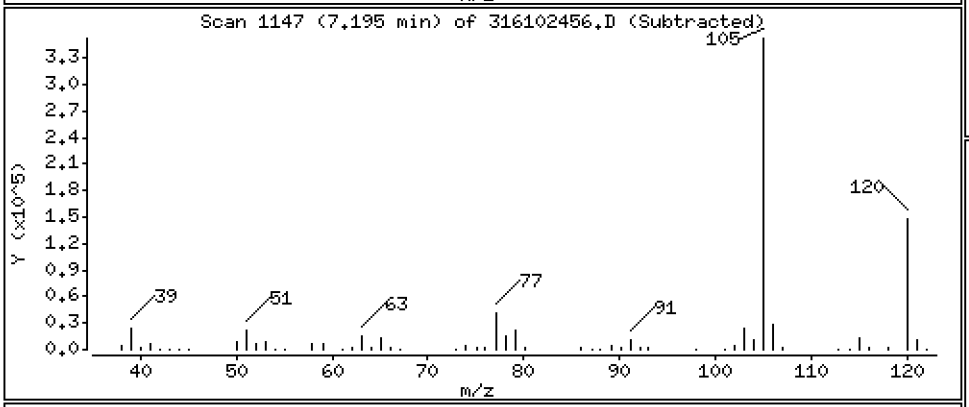
Purge Volume: 5.0 Operator: CJG

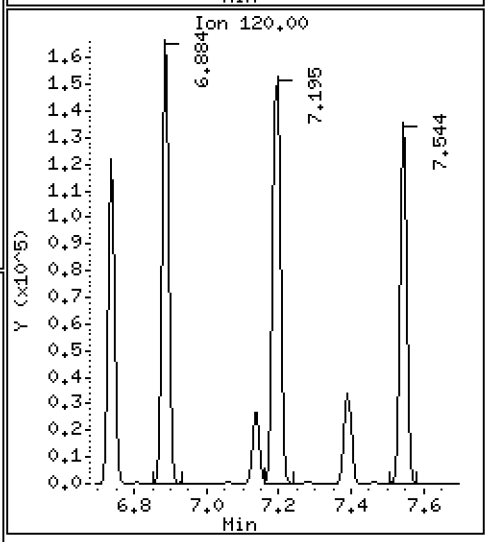
Column phase: DB-VRX Column diameter: 0.25

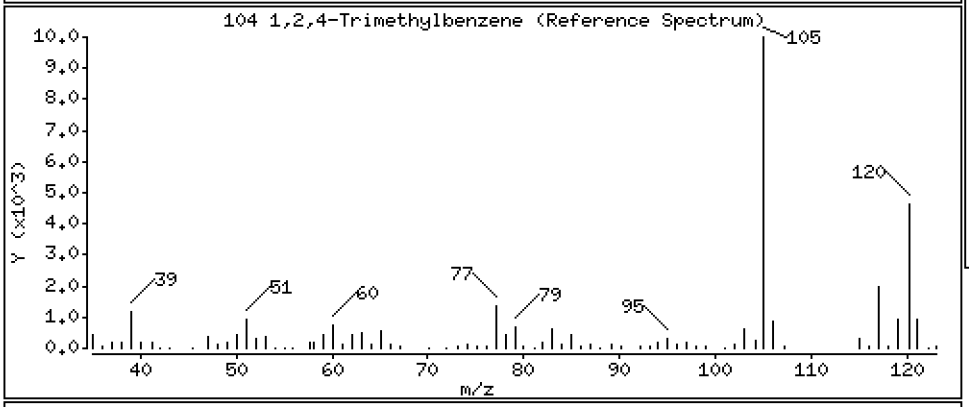
104 1,2,4-Trimethylbenzene Concentration: 20.7071 ug/L

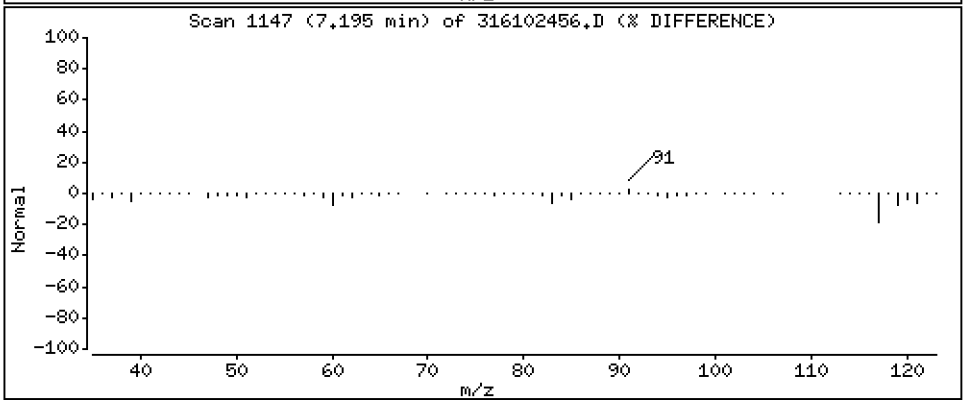












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 106

Date : 25-OCT-2016 00:30

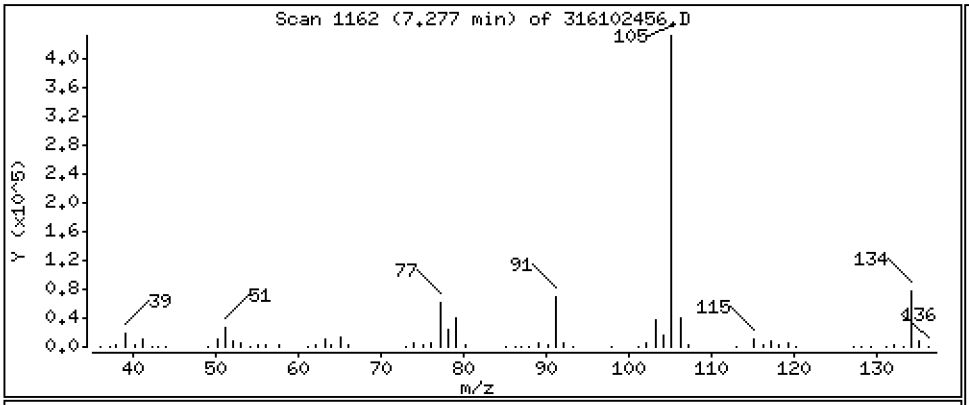
Client ID: Instrument: ms03.i

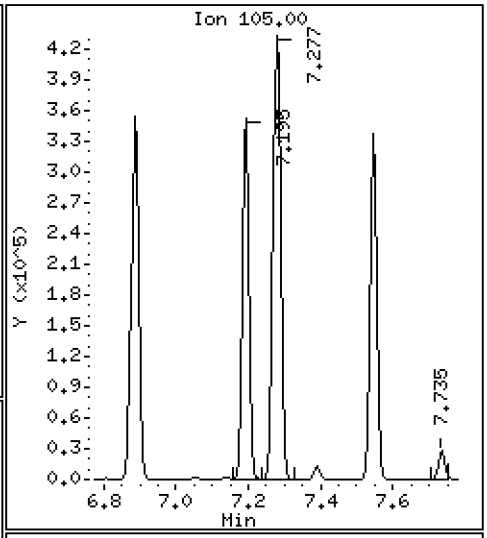
Sample Info: 1236;;1;1;3;;;

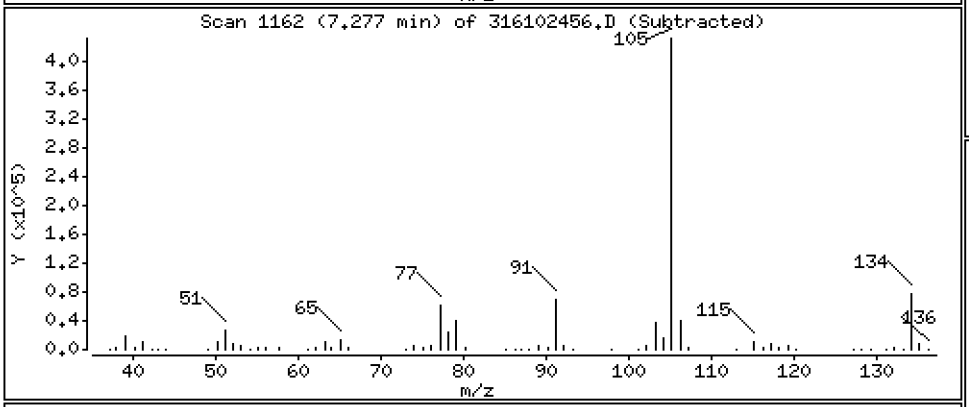
Purge Volume: 5.0 Operator: CJG

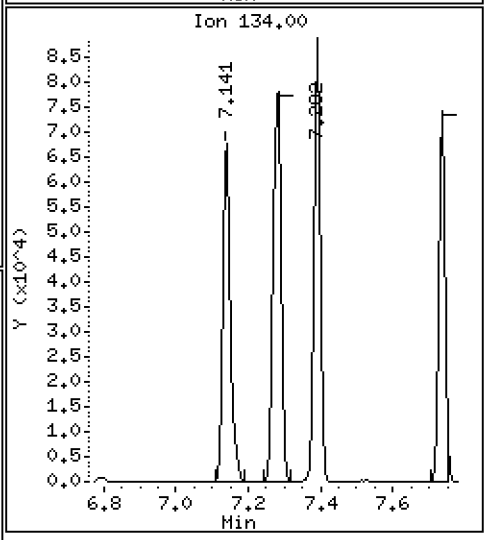
Column phase: DB-VRX Column diameter: 0.25

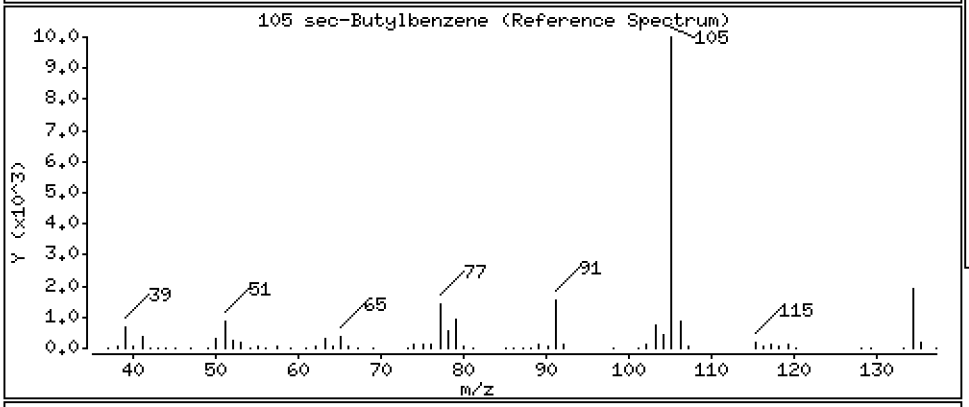
105 sec-Butylbenzene Concentration: 21.2680 ug/L

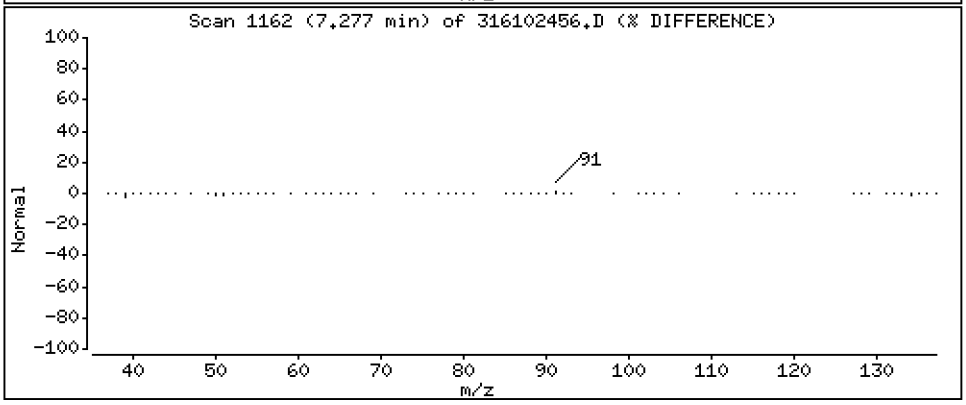












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 107

Date : 25-OCT-2016 00:30

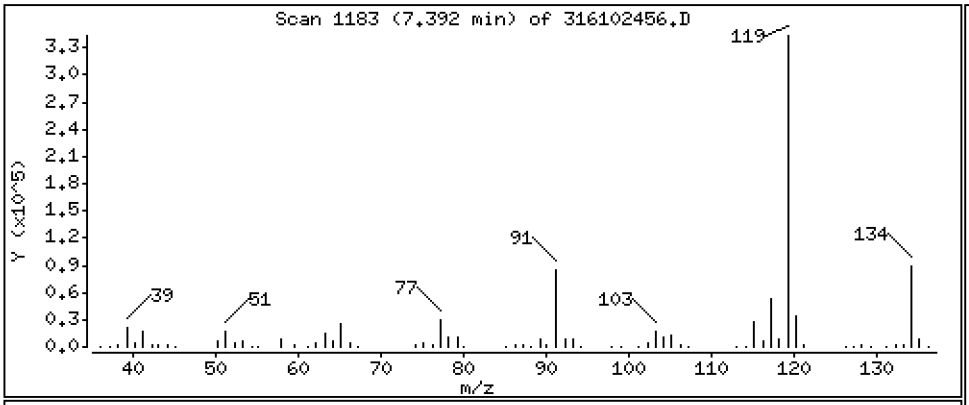
Client ID: Instrument: ms03.i

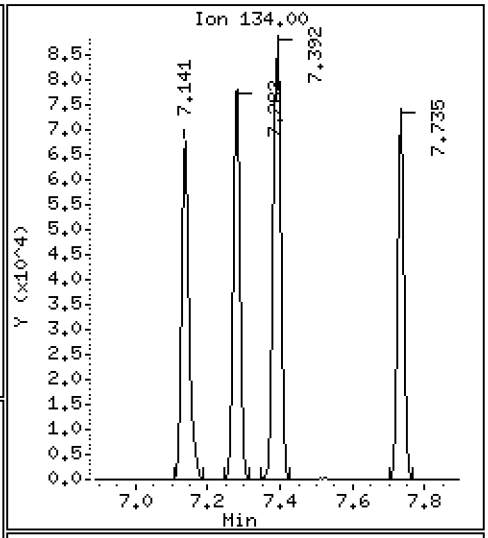
Sample Info: 1236;;1;1;3;;;

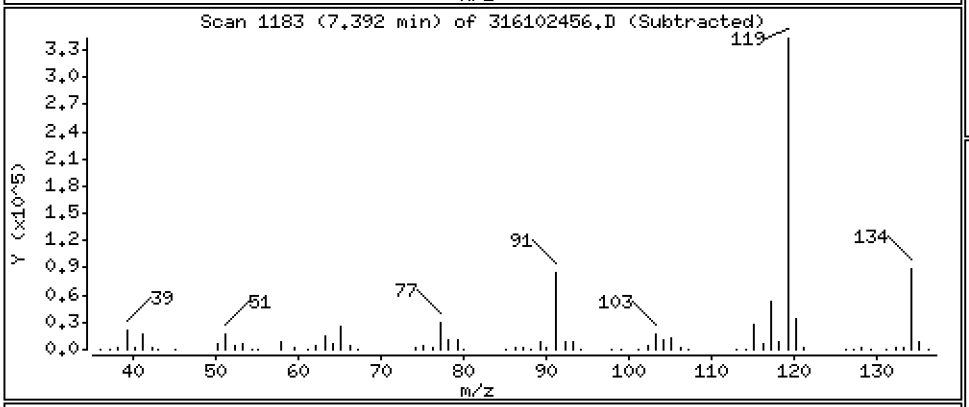
Purge Volume: 5.0 Operator: CJG

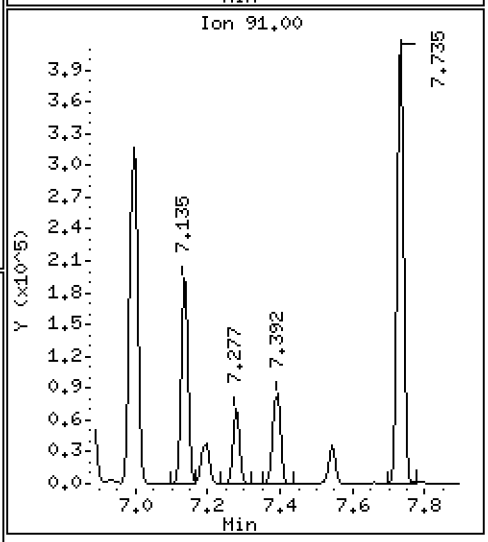
Column phase: DB-VRX Column diameter: 0.25

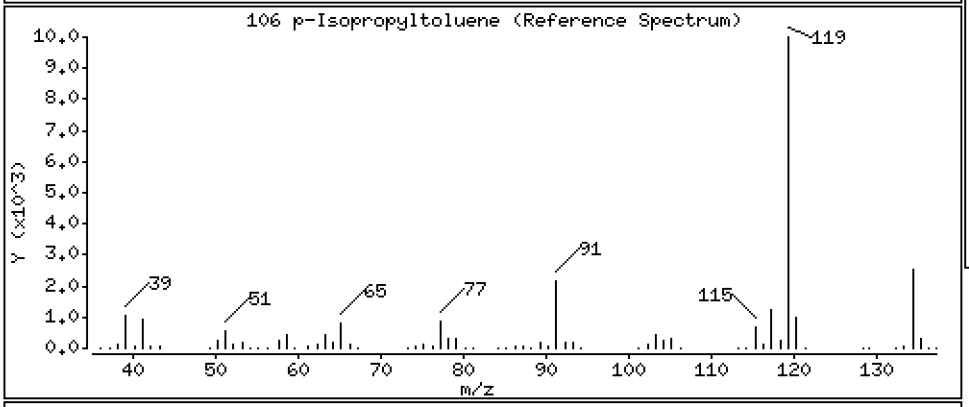
106 p-Isopropyltoluene Concentration: 20.6170 ug/L

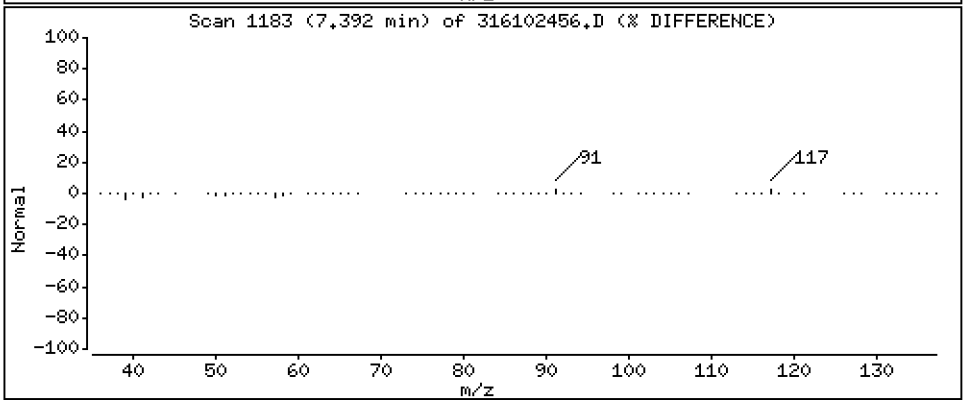












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 108

Date : 25-OCT-2016 00:30

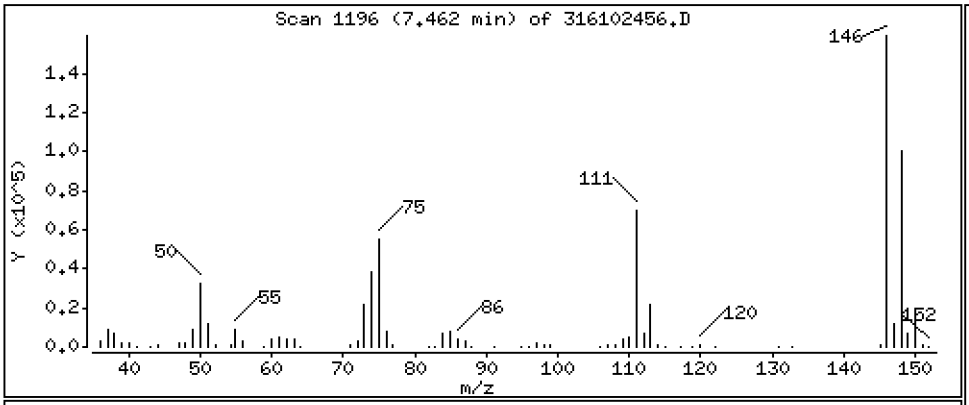
Client ID: Instrument: ms03.i

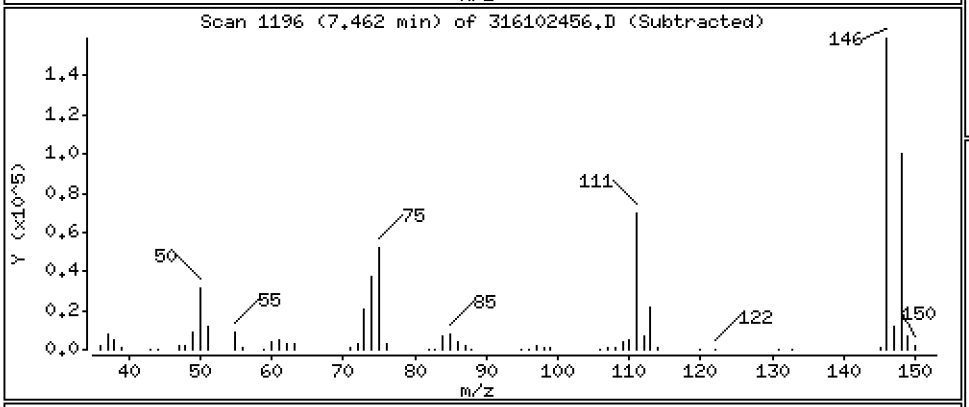
Sample Info: 1236;;1;1;3;;;

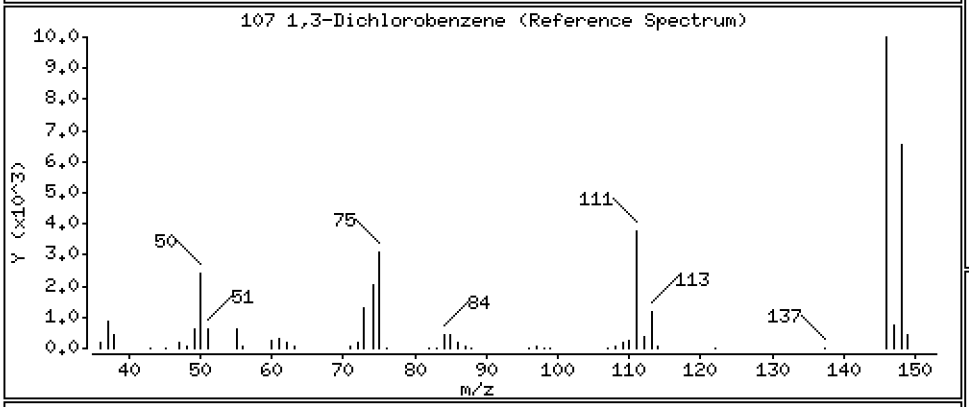
Purge Volume: 5.0 Operator: CJG

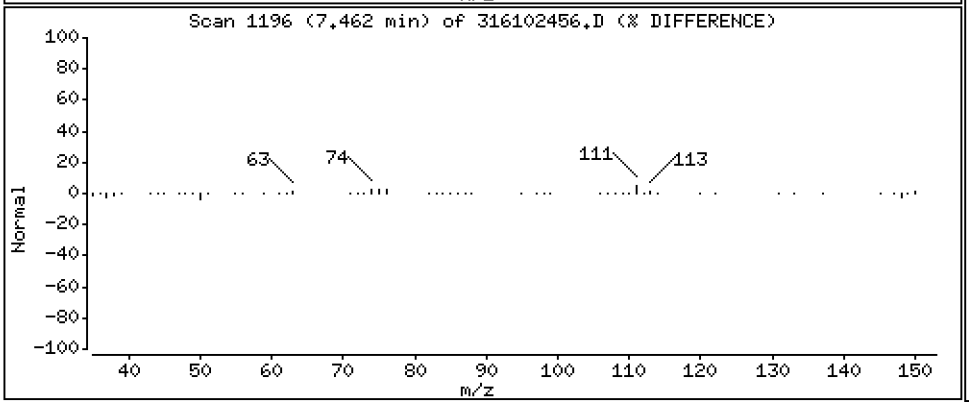
Column phase: DB-VRX Column diameter: 0.25

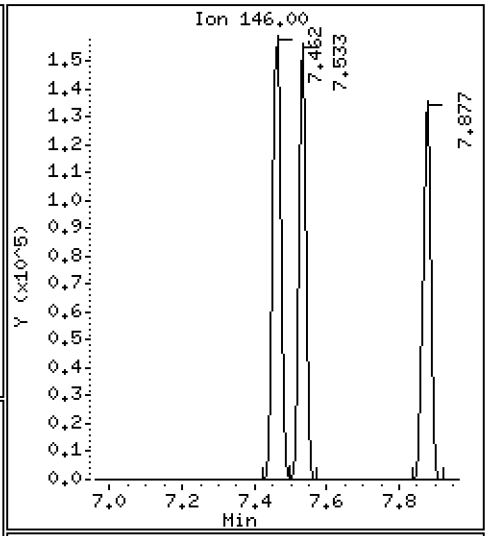
107 1,3-Dichlorobenzene Concentration: 20.8608 ug/L

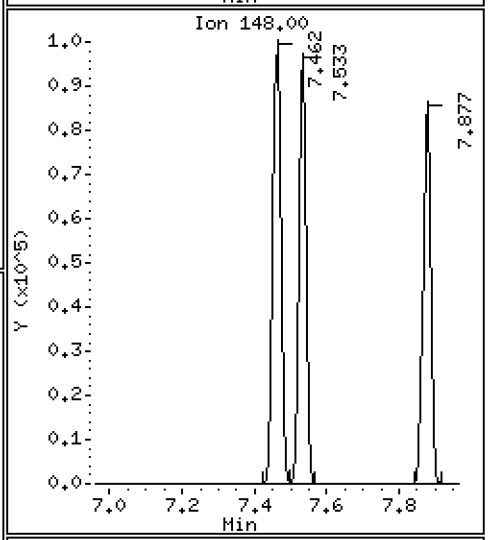


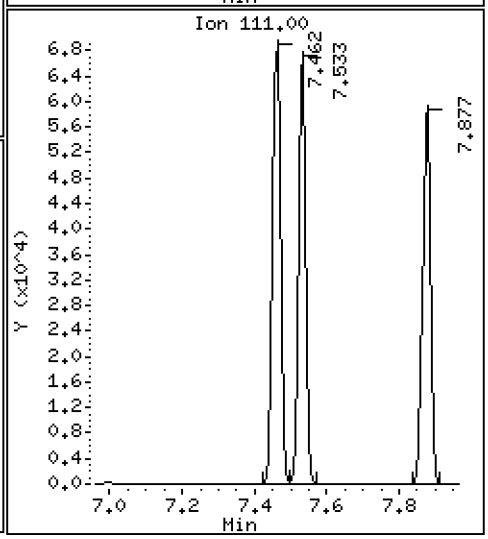












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 109

Date : 25-OCT-2016 00:30

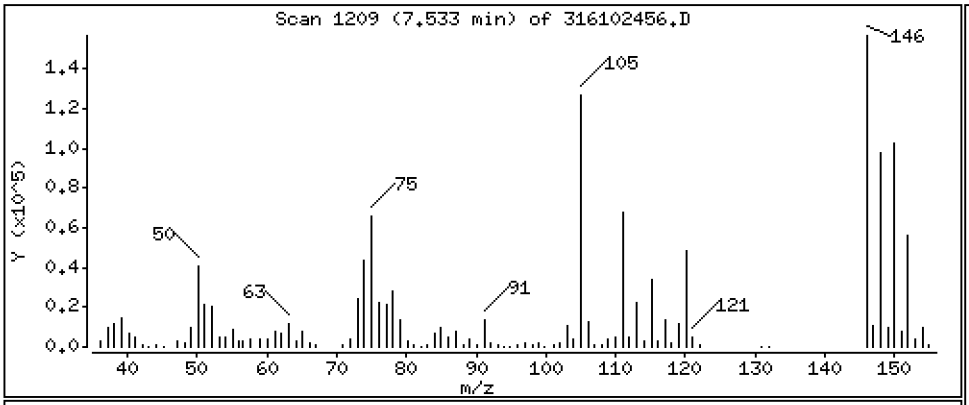
Client ID: Instrument: ms03.i

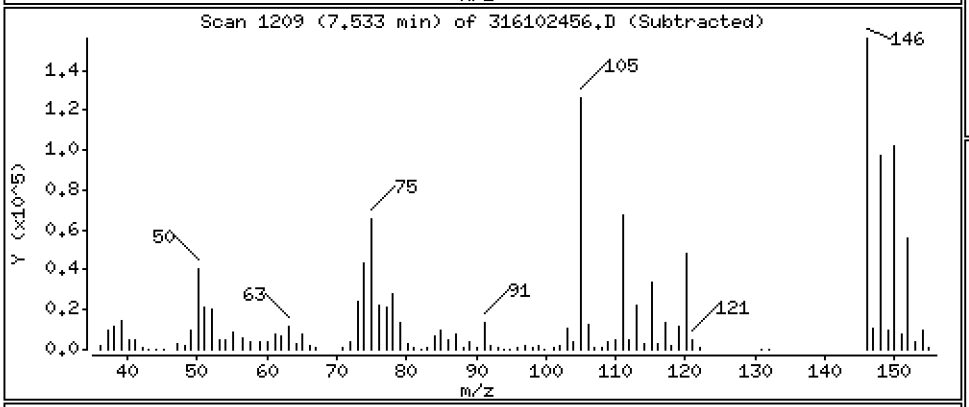
Sample Info: 1236;;1;1;3;;;

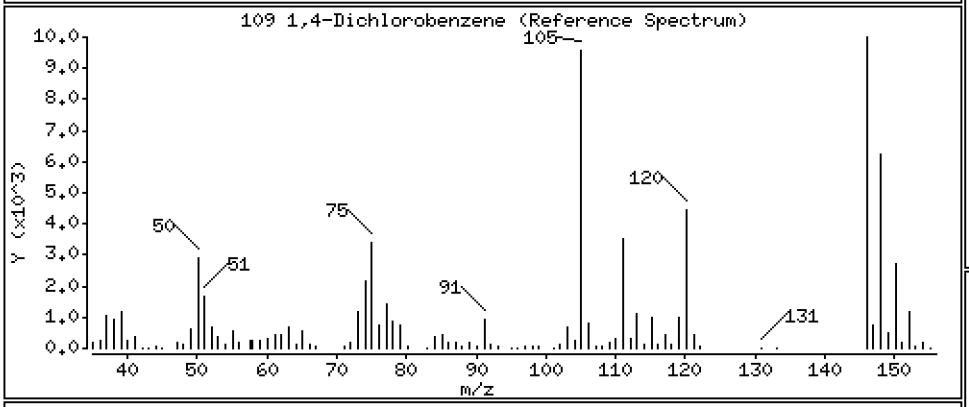
Purge Volume: 5.0 Operator: CJG

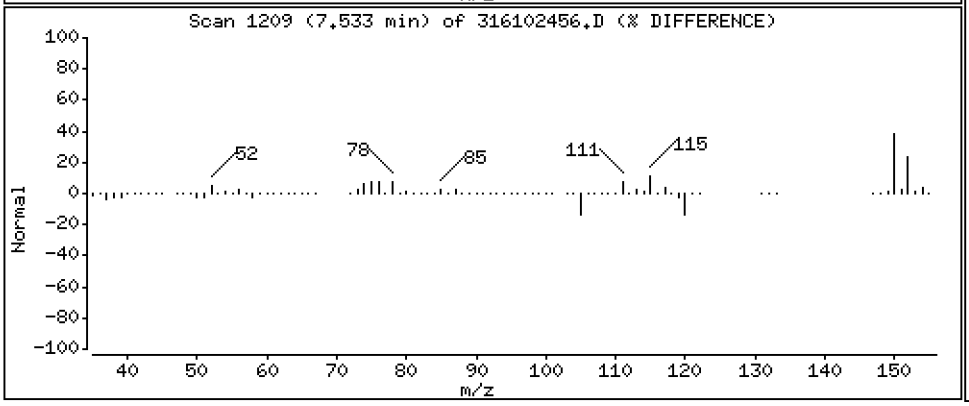
Column phase: DB-VRX Column diameter: 0.25

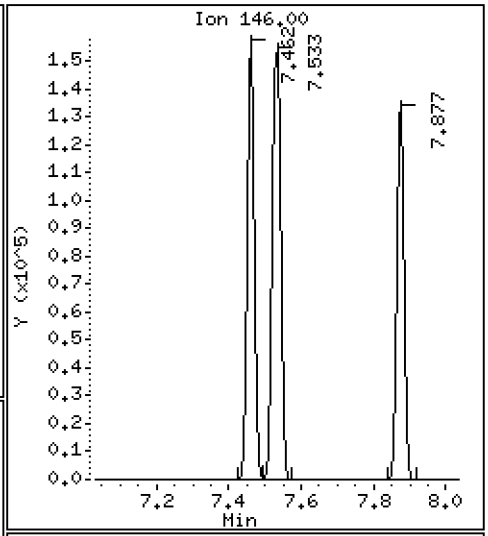
109 1,4-Dichlorobenzene Concentration: 20.8640 ug/L

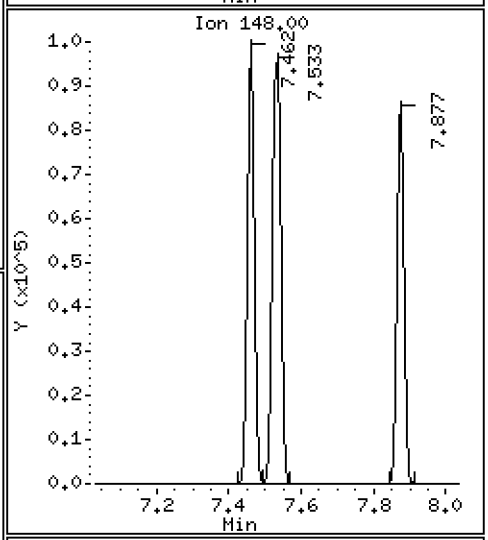


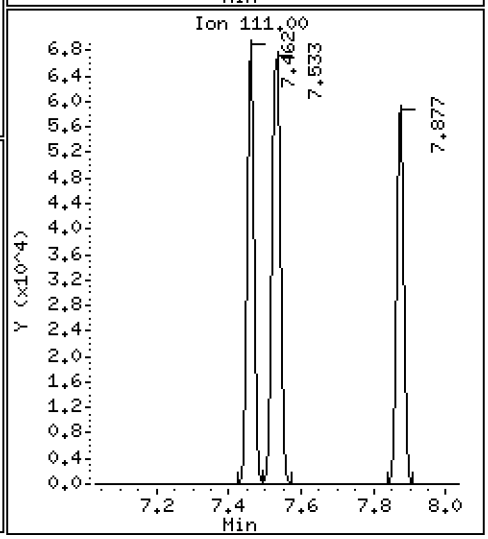












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 110

Date : 25-OCT-2016 00:30

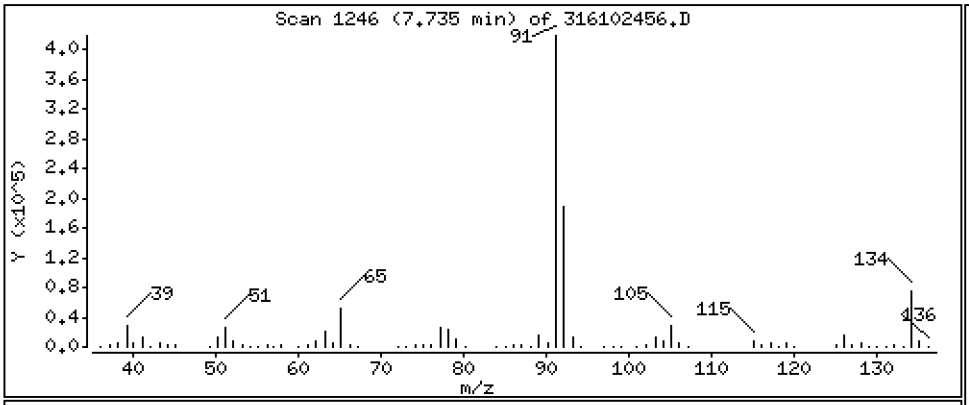
Client ID: Instrument: ms03.i

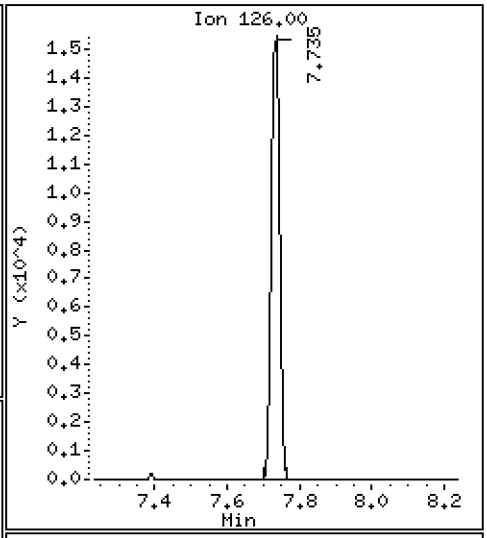
Sample Info: 1236;;1;1;3;;;

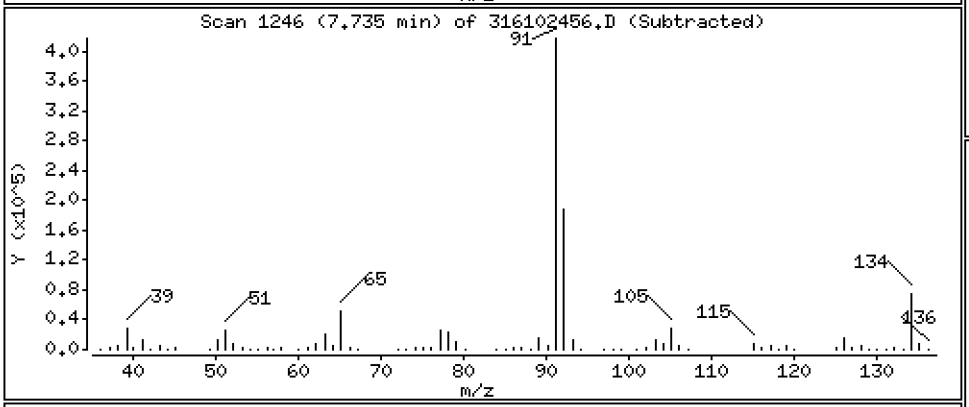
Purge Volume: 5.0 Operator: CJG

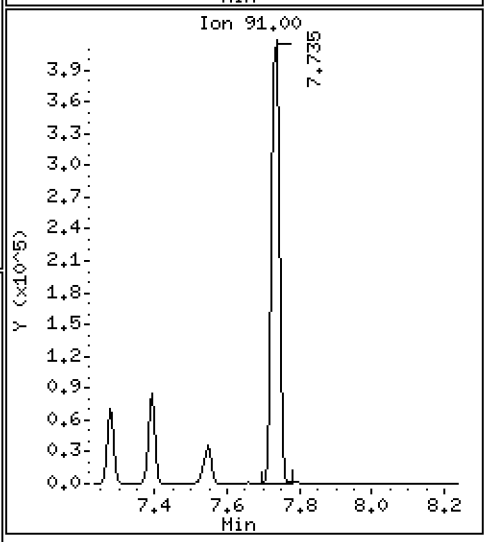
Column phase: DB-VRX Column diameter: 0.25

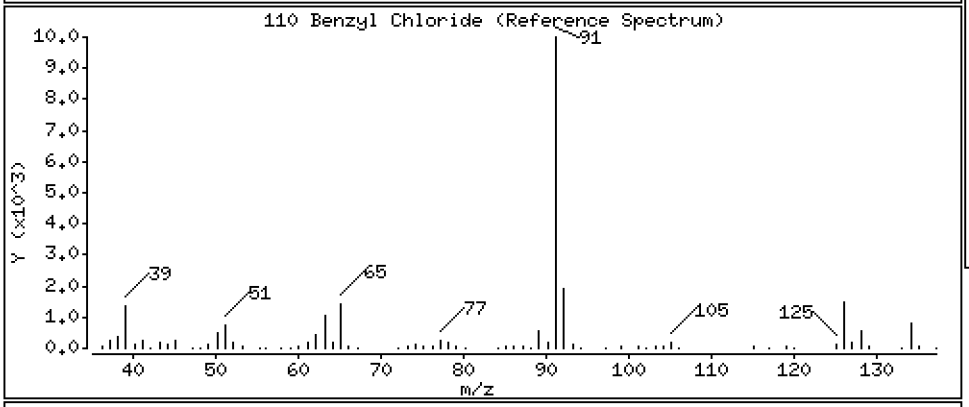
110 Benzyl Chloride Concentration: 15.8113 ug/L

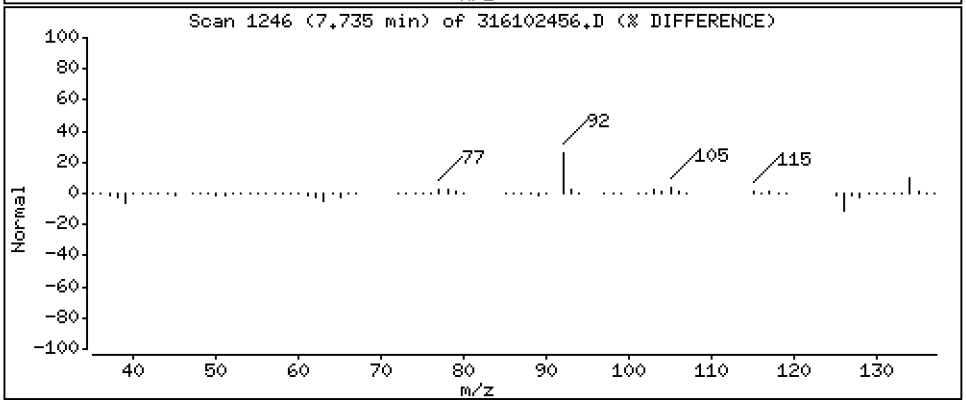












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 111

Date : 25-OCT-2016 00:30

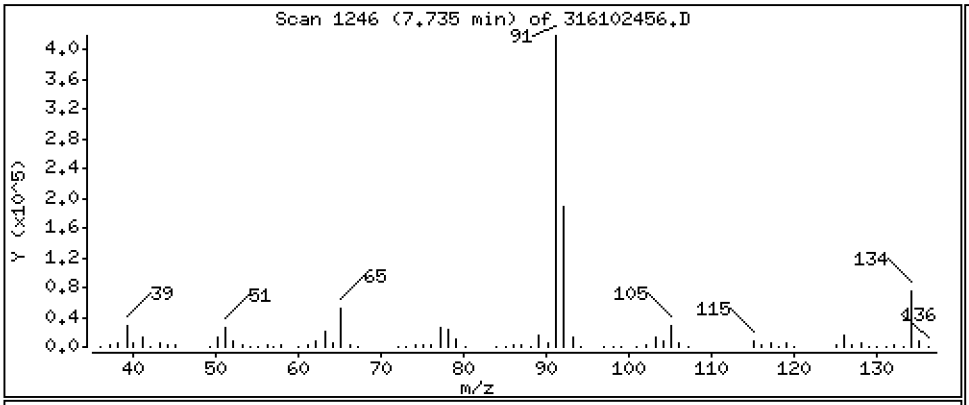
Client ID: Instrument: ms03.i

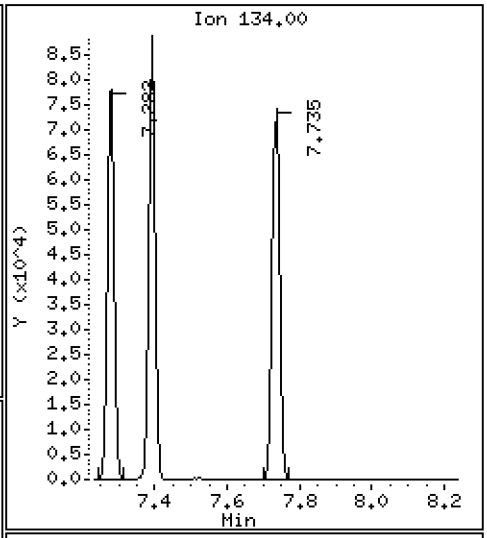
Sample Info: 1236;;1;1;3;;;

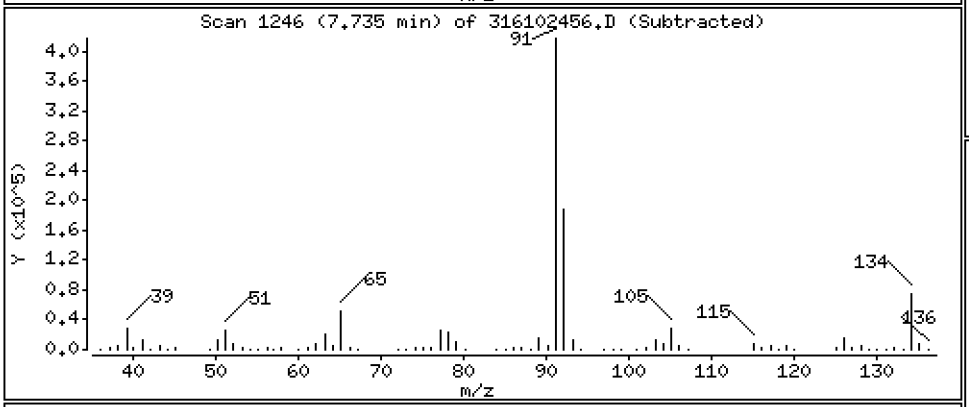
Purge Volume: 5.0 Operator: CJG

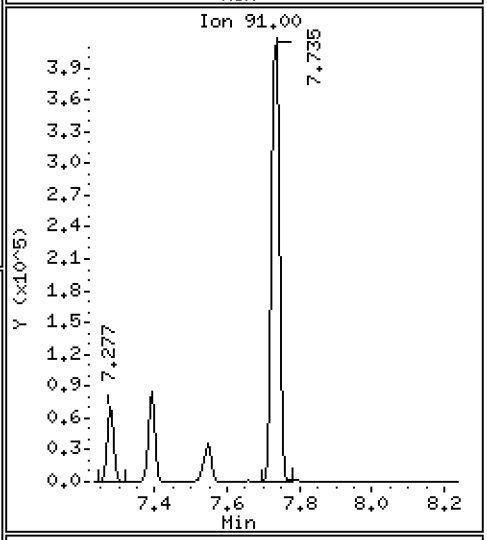
Column phase: DB-VRX Column diameter: 0.25

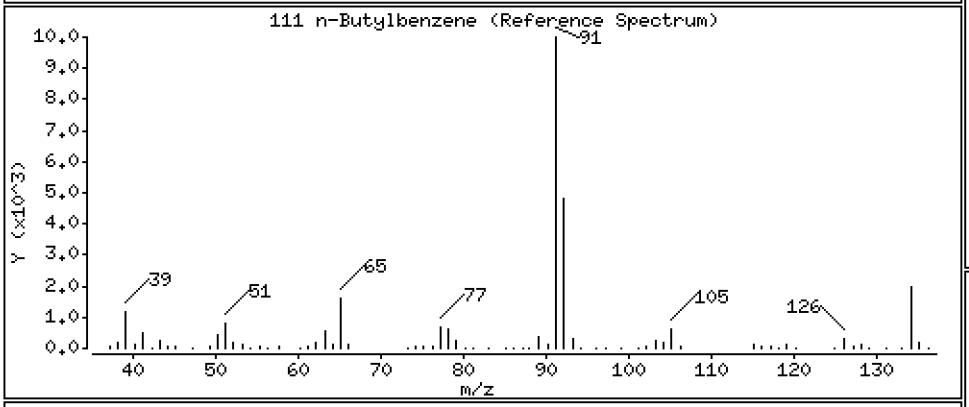
111 n-Butylbenzene Concentration: 20.2340 ug/L

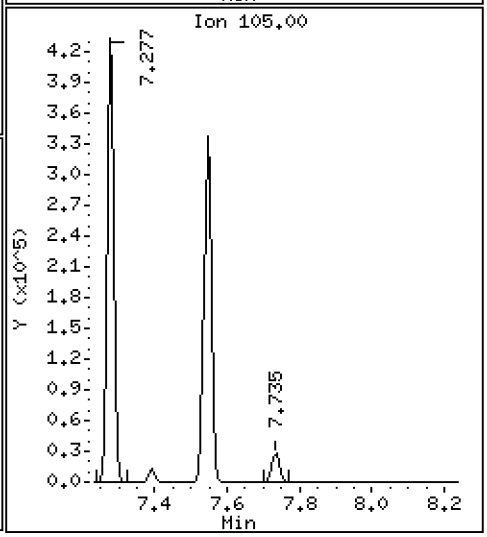


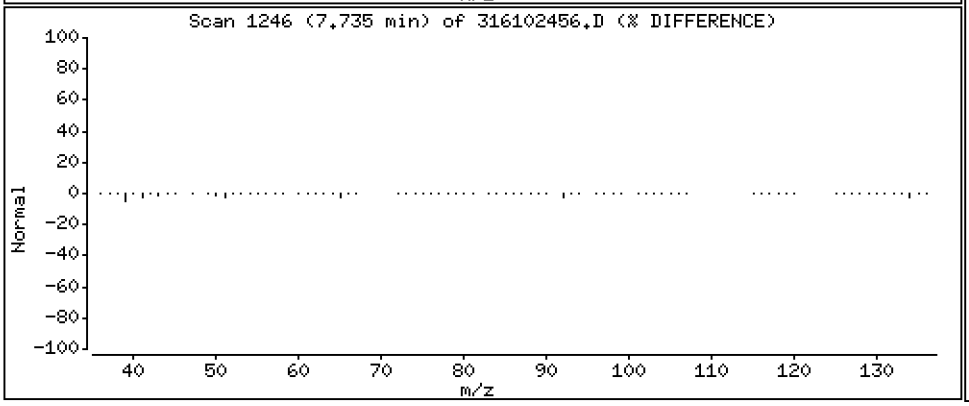












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 112

Date : 25-OCT-2016 00:30

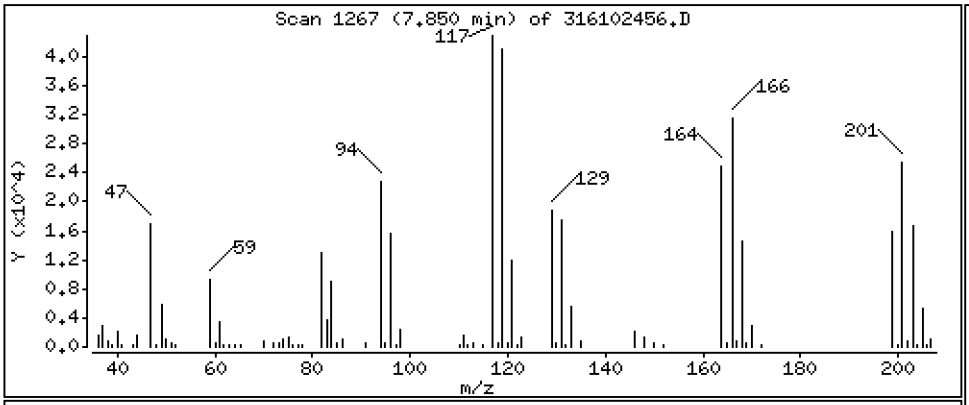
Client ID: Instrument: ms03.i

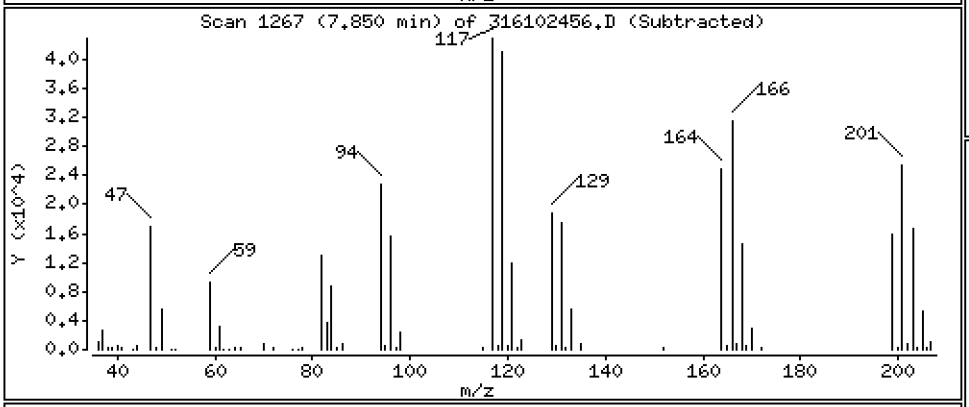
Sample Info: 1236;;1;1;3;;;

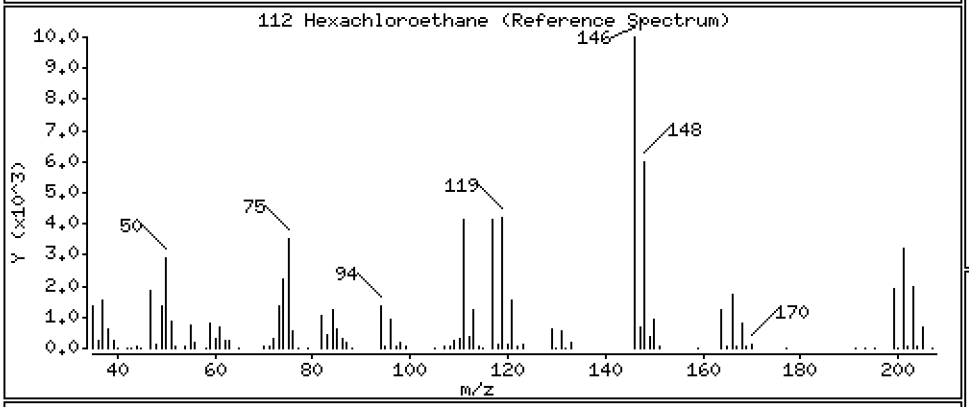
Purge Volume: 5.0 Operator: CJG

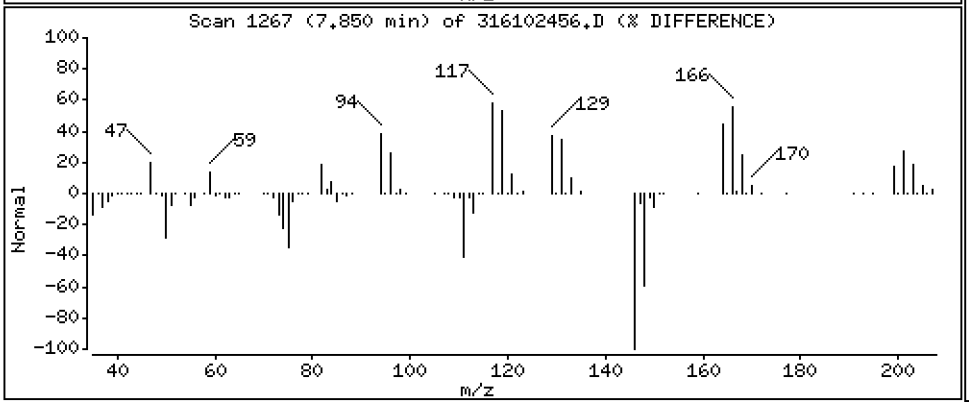
Column phase: DB-VRX Column diameter: 0.25

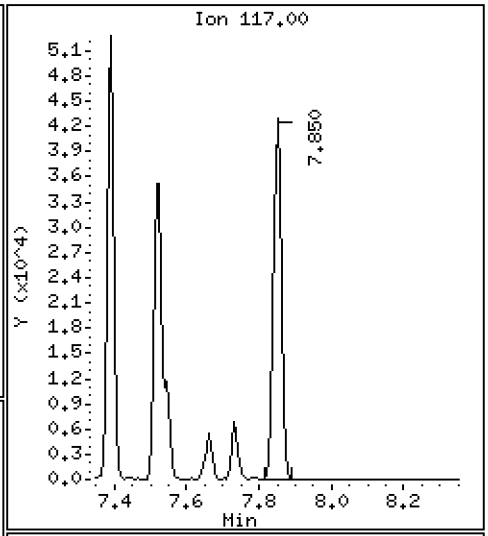
112 Hexachloroethane Concentration: 18.3778 ug/L

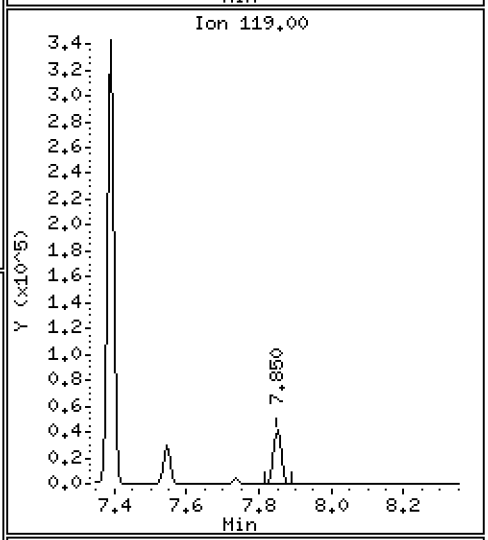


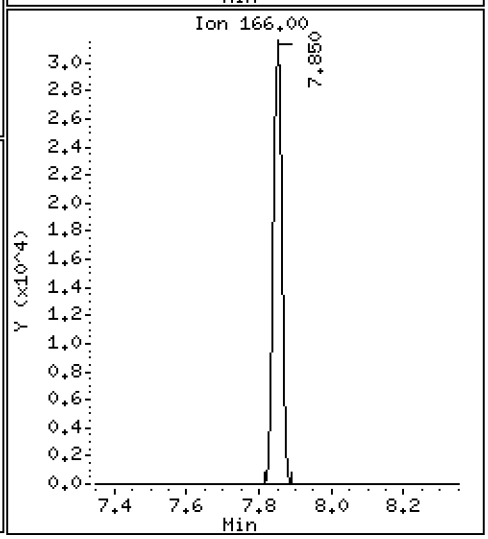












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 113

Date : 25-OCT-2016 00:30

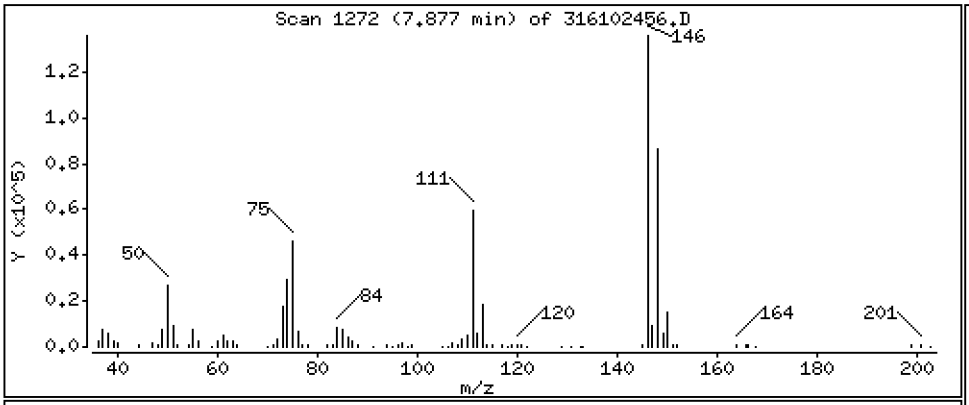
Client ID: Instrument: ms03.i

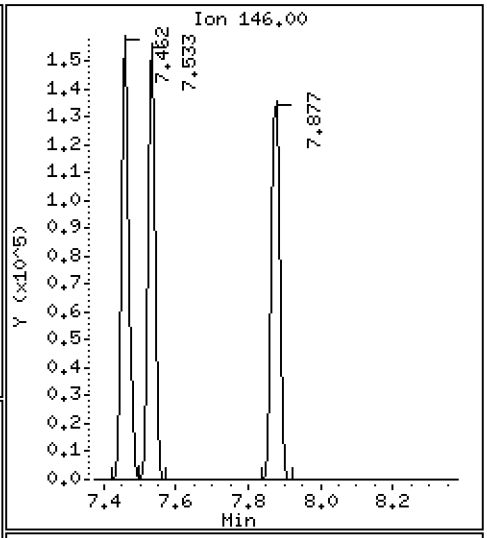
Sample Info: 1236;;1;1;3;;;

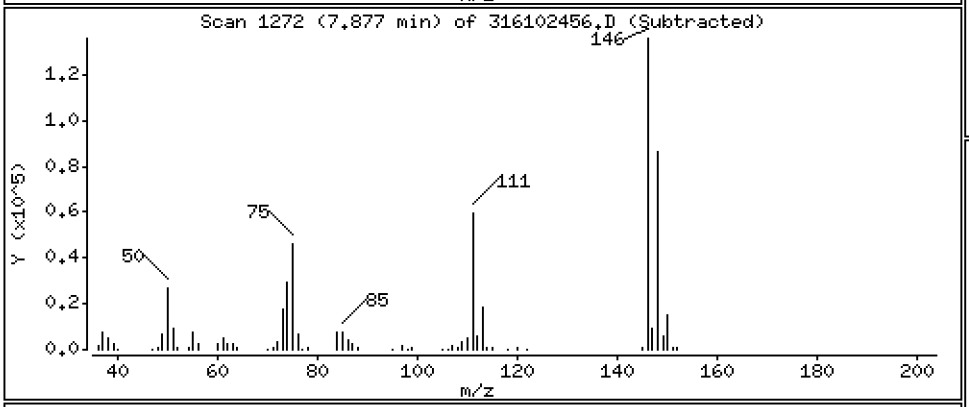
Purge Volume: 5.0 Operator: CJG

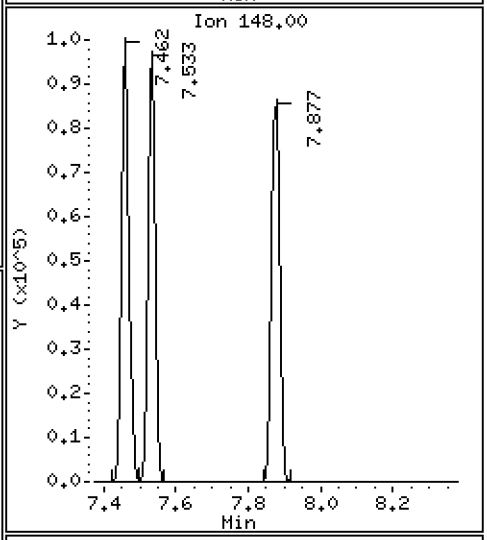
Column phase: DB-VRX Column diameter: 0.25

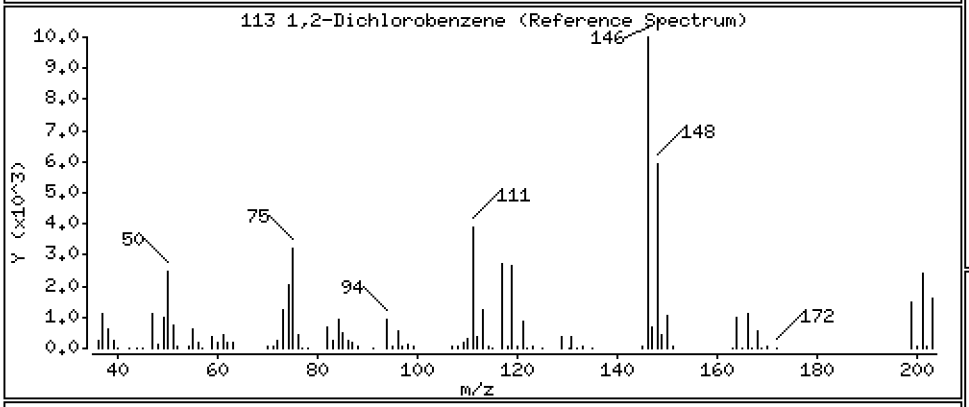
113 1,2-Dichlorobenzene Concentration: 20.4145 ug/L

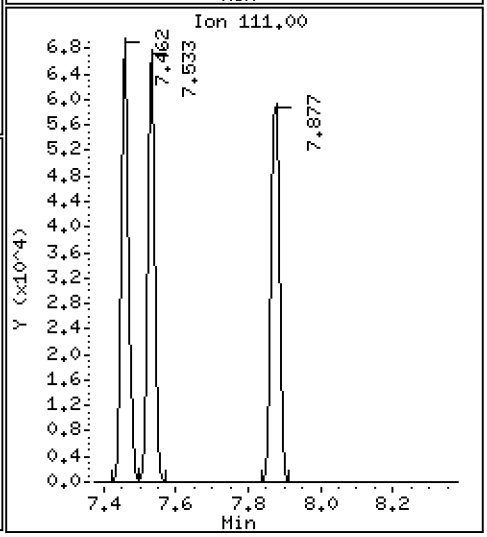


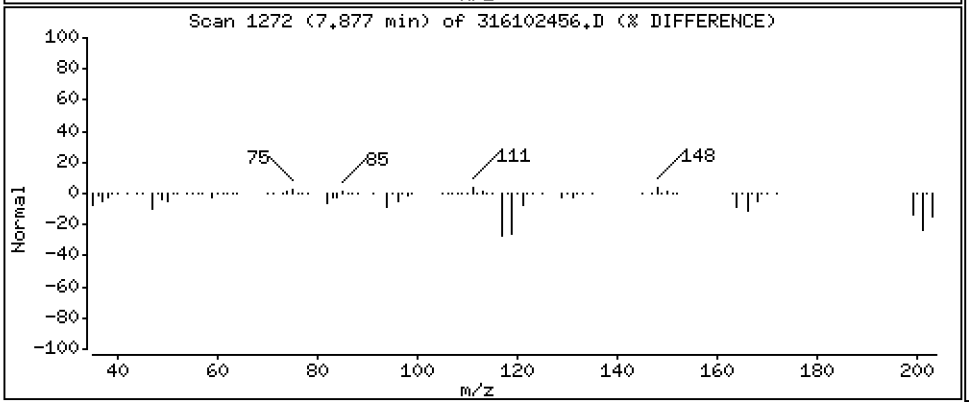












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 114

Date : 25-OCT-2016 00:30

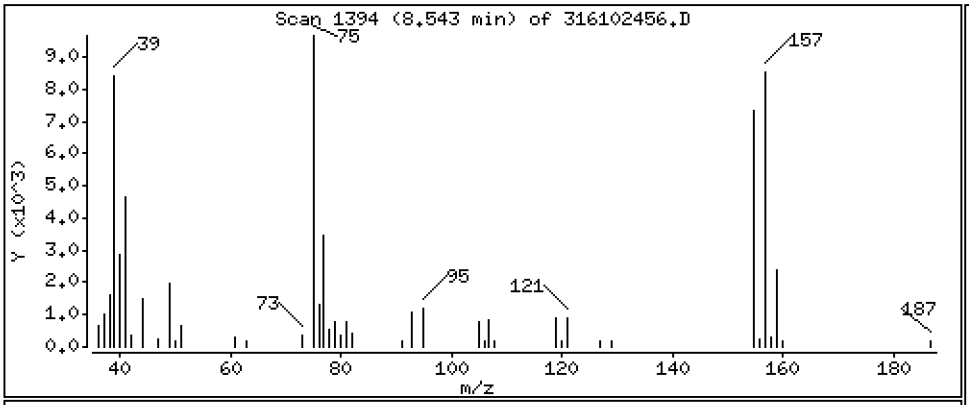
Client ID: Instrument: ms03.i

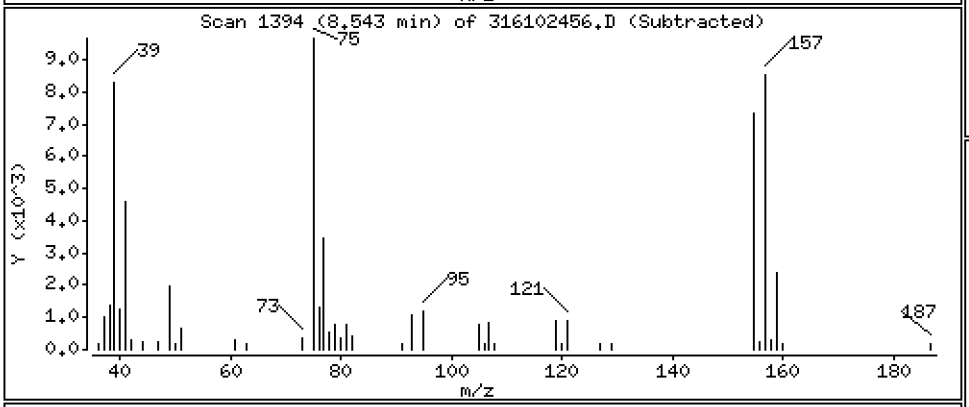
Sample Info: 1236;;1;1;3;;;

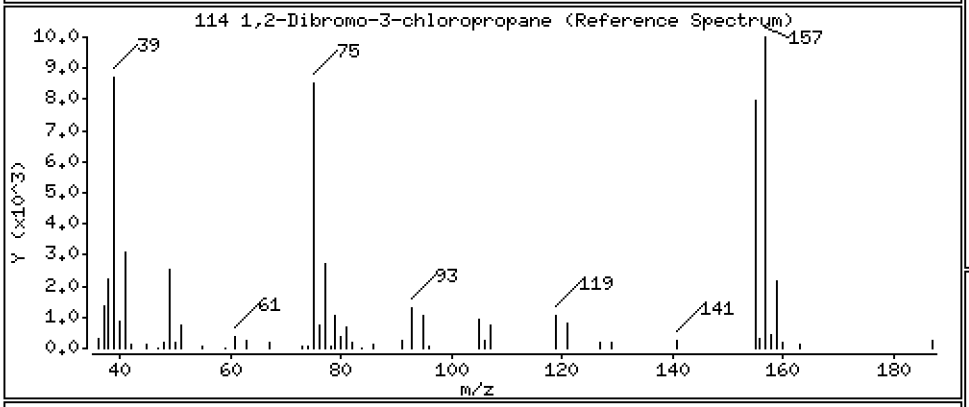
Purge Volume: 5.0 Operator: CJG

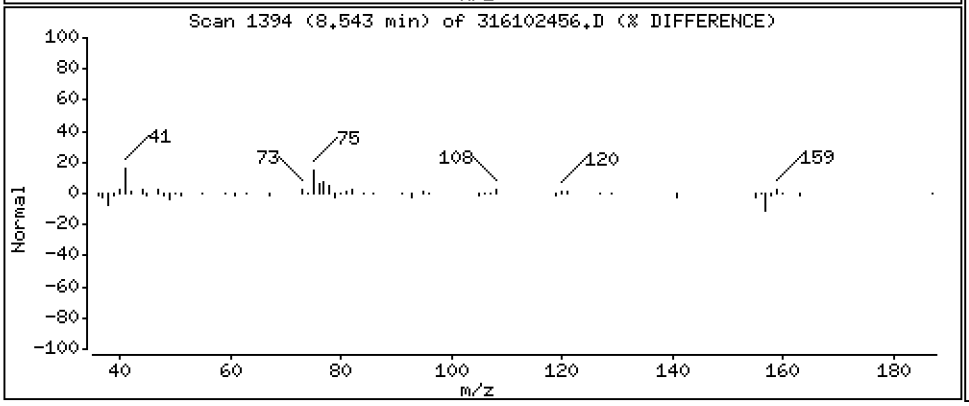
Column phase: DB-VRX Column diameter: 0.25

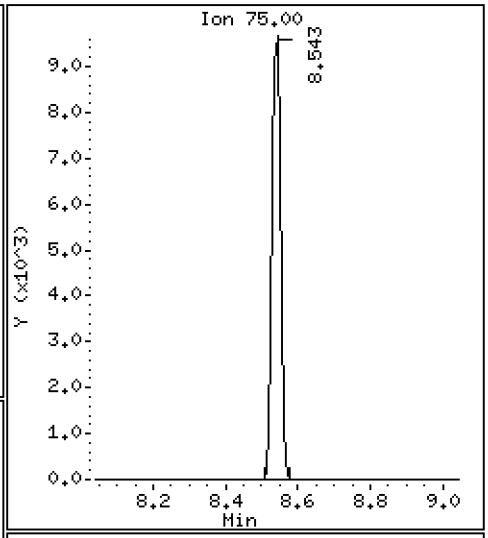
114 1,2-Dibromo-3-chloropropane Concentration: 18.4400 ug/L

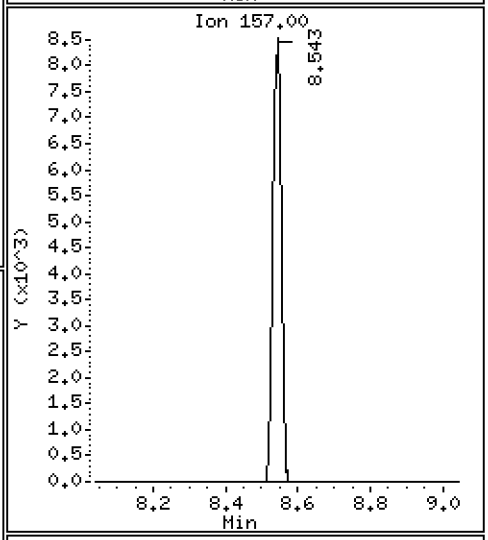


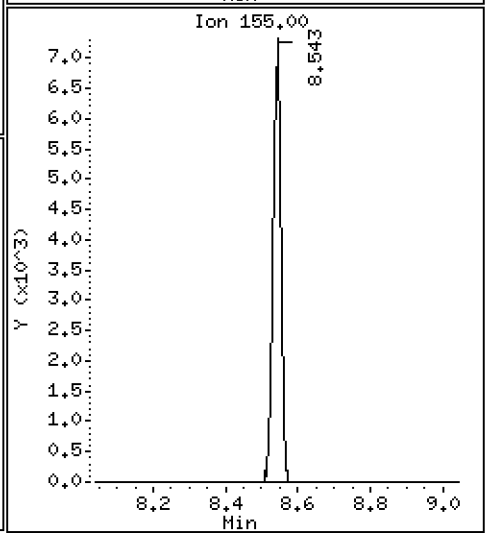












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 115

Date : 25-OCT-2016 00:30

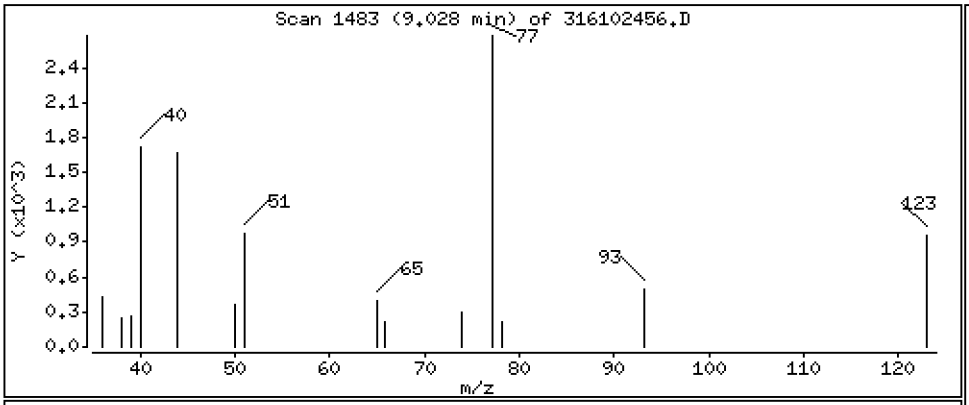
Client ID: Instrument: ms03.i

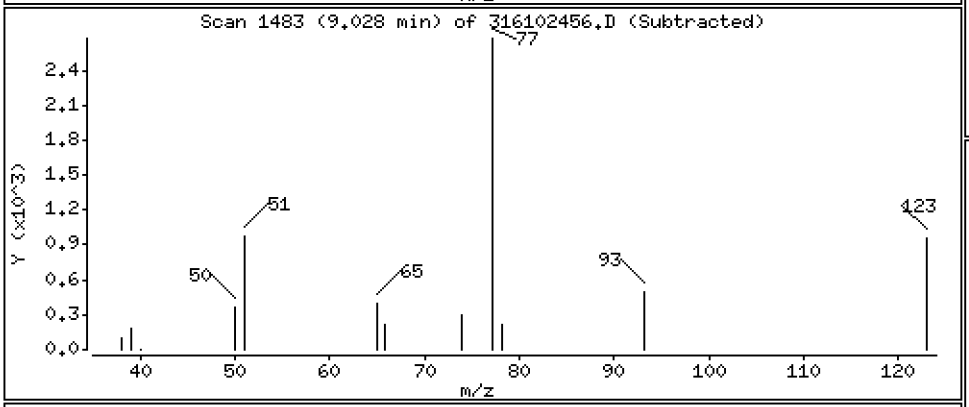
Sample Info: 1236;;1;1;3;;;

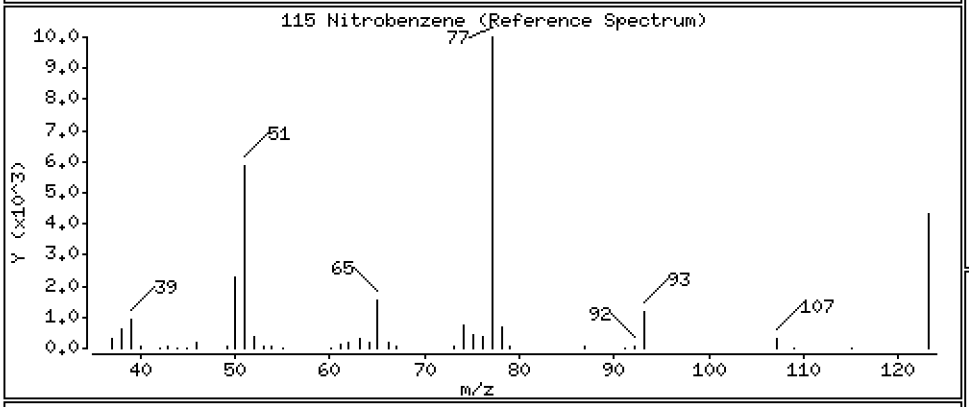
Purge Volume: 5.0 Operator: CJG

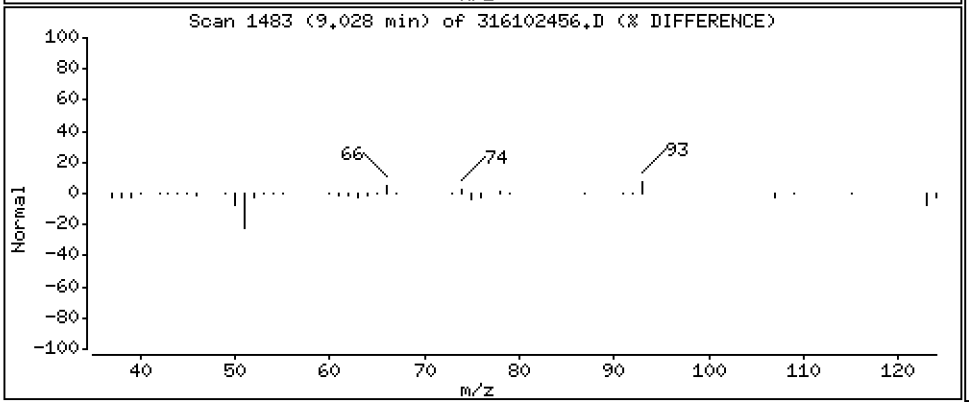
Column phase: DB-VRX Column diameter: 0.25

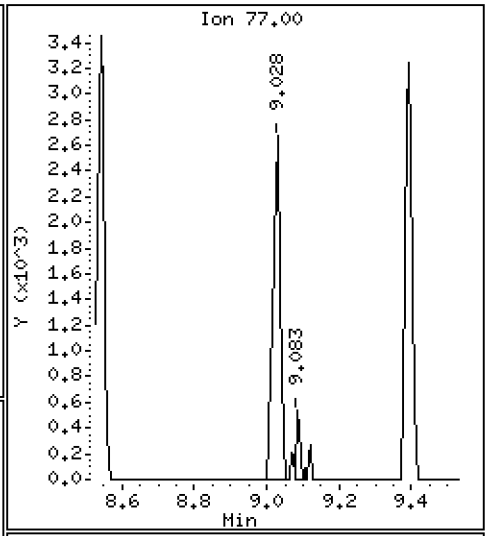
115 Nitrobenzene Concentration: 256.981 ug/L

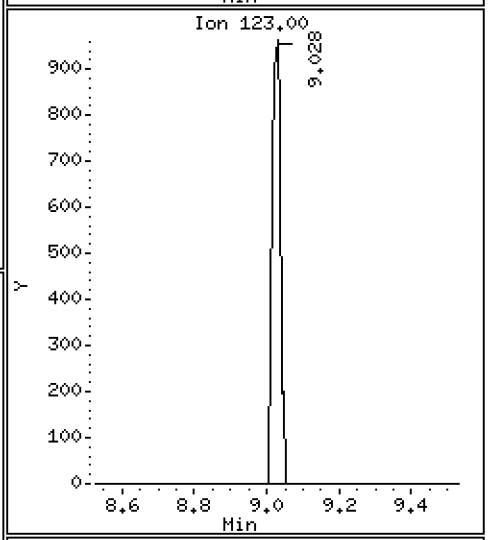


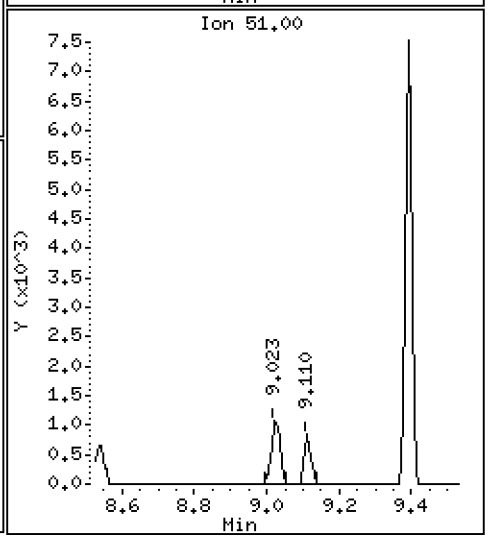












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 116

Date : 25-OCT-2016 00:30

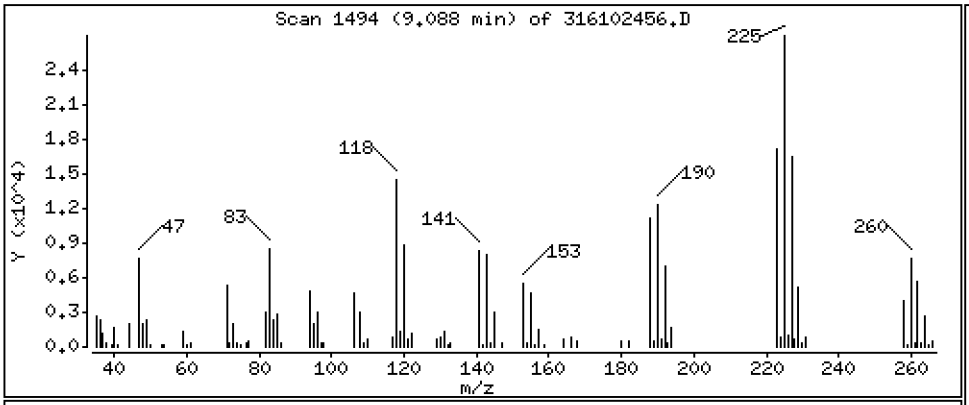
Client ID: Instrument: ms03.i

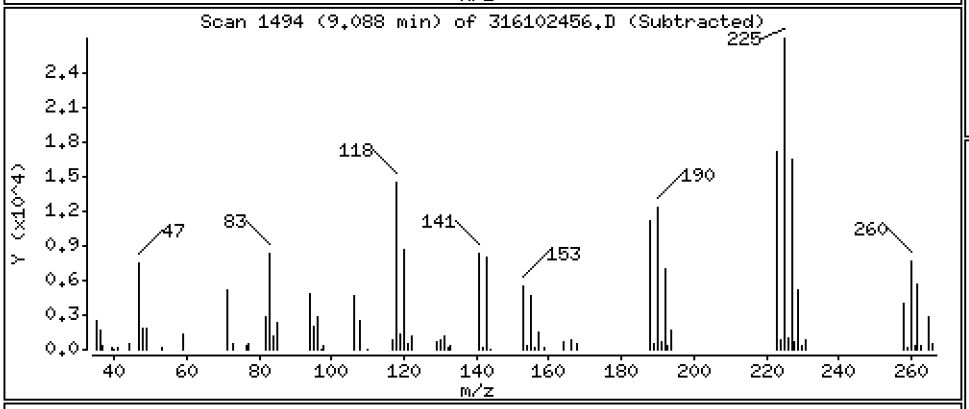
Sample Info: 1236;;1;1;3;;;

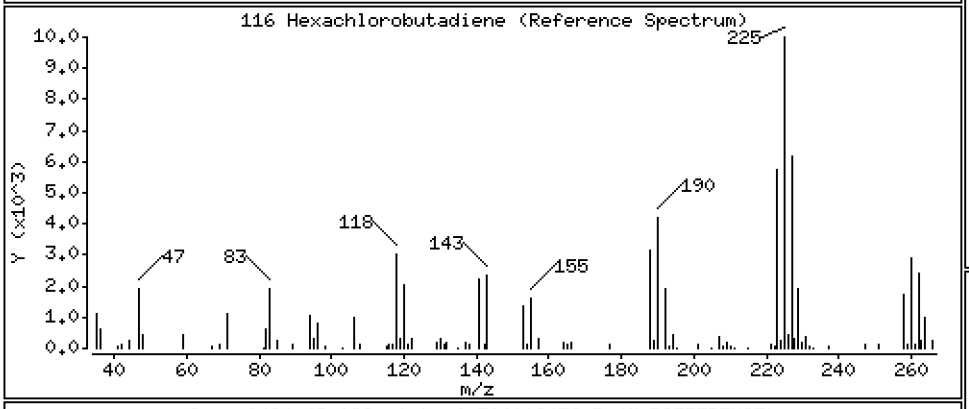
Purge Volume: 5.0 Operator: CJG

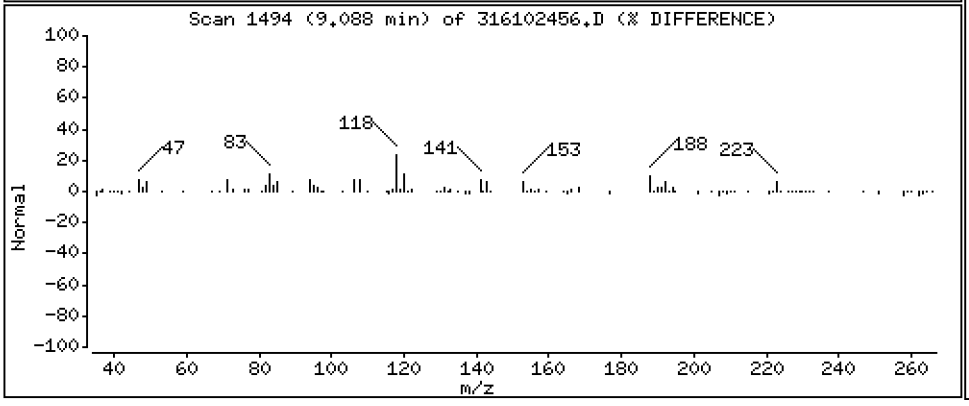
Column phase: DB-VRX Column diameter: 0.25

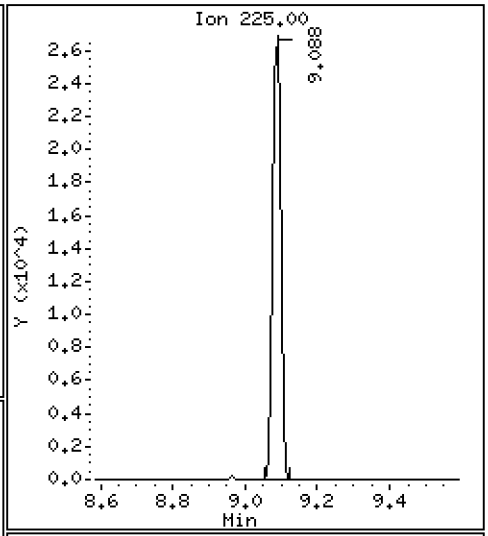
116 Hexachlorobutadiene Concentration: 20.8798 ug/L

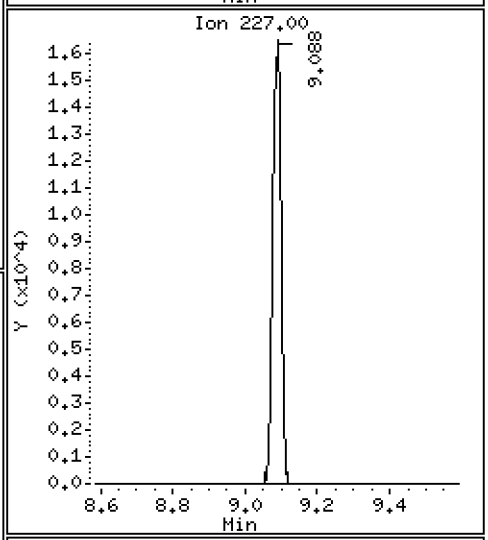


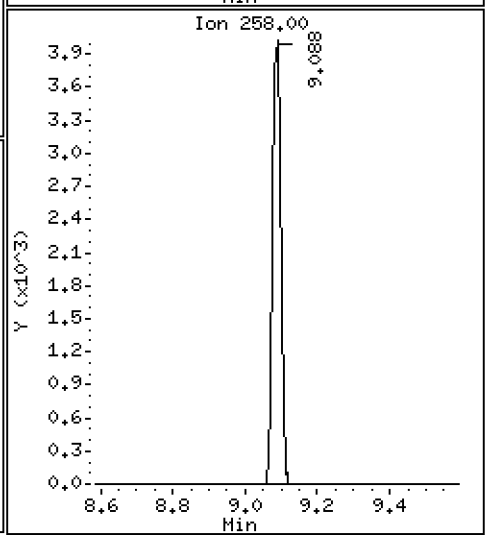












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 117

Date : 25-OCT-2016 00:30

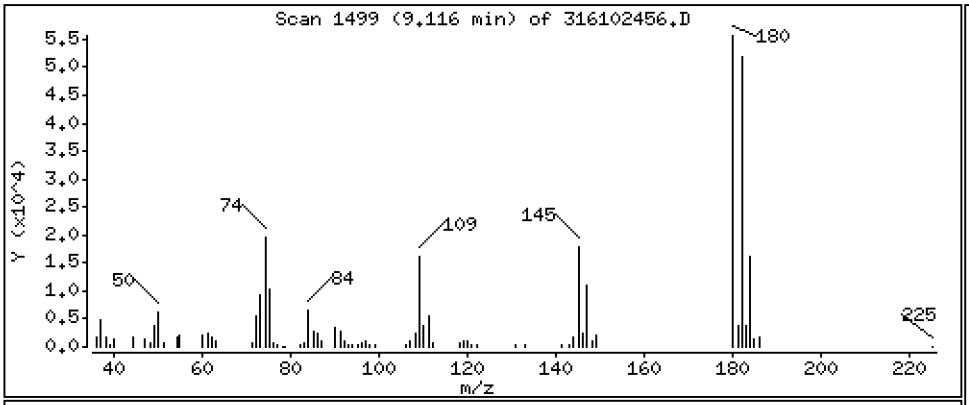
Client ID: Instrument: ms03.i

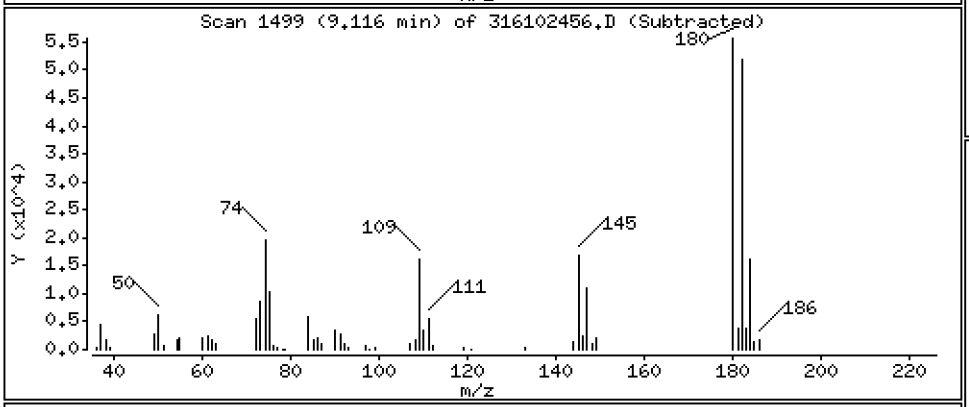
Sample Info: 1236;;1;1;3;;;

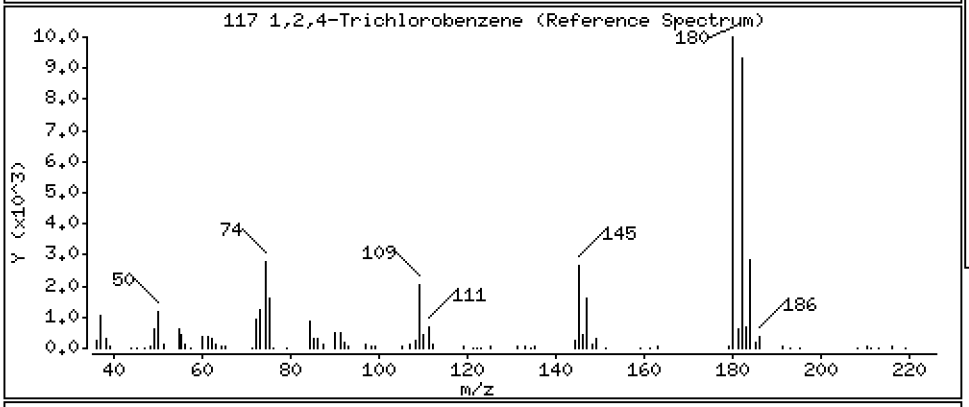
Purge Volume: 5.0 Operator: CJG

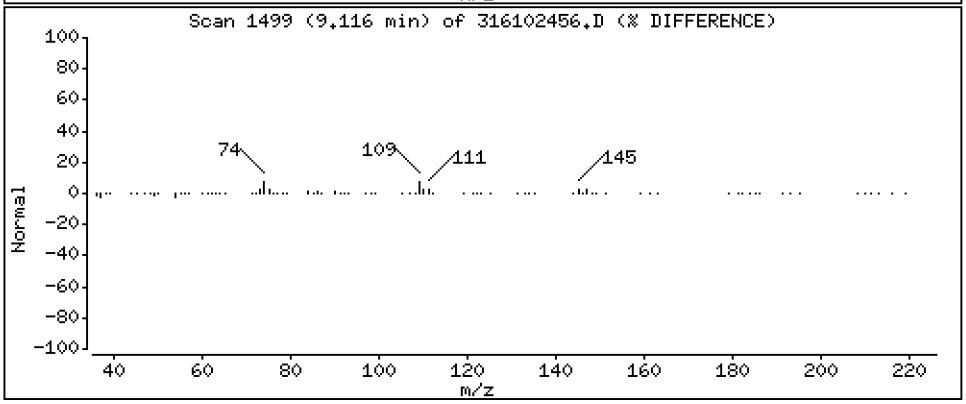
Column phase: DB-VRX Column diameter: 0.25

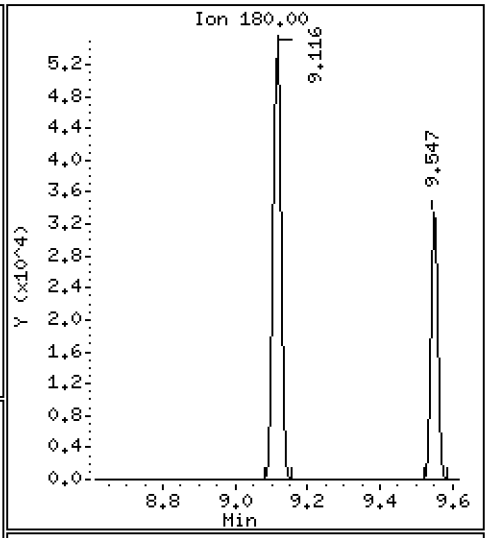
117 1,2,4-Trichlorobenzene Concentration: 18.3242 ug/L

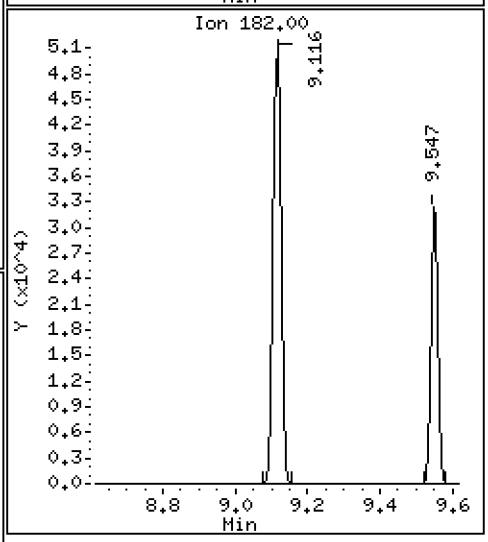












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 118

Date : 25-OCT-2016 00:30

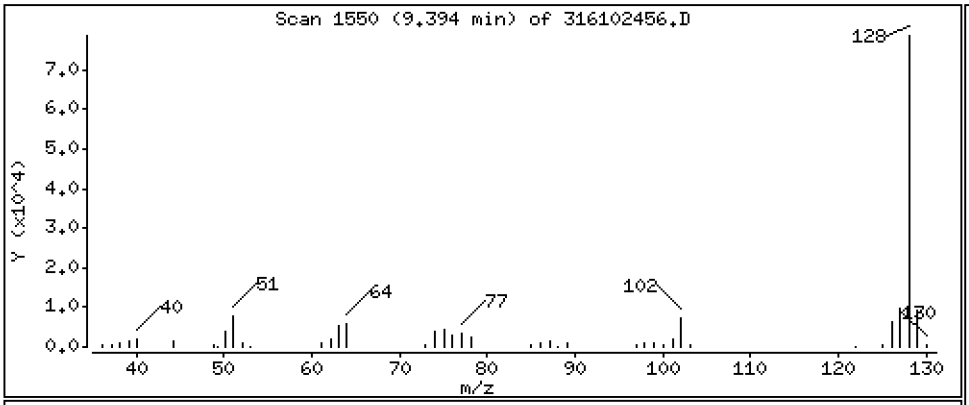
Client ID: Instrument: ms03.i

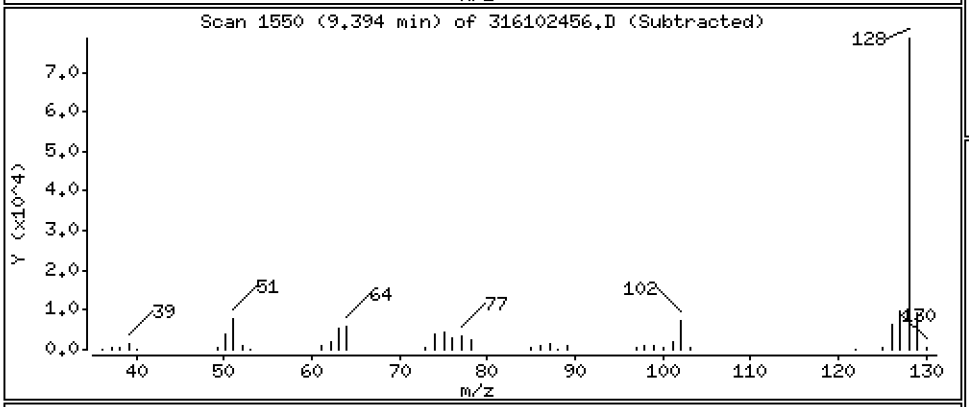
Sample Info: 1236;;1;1;3;;;

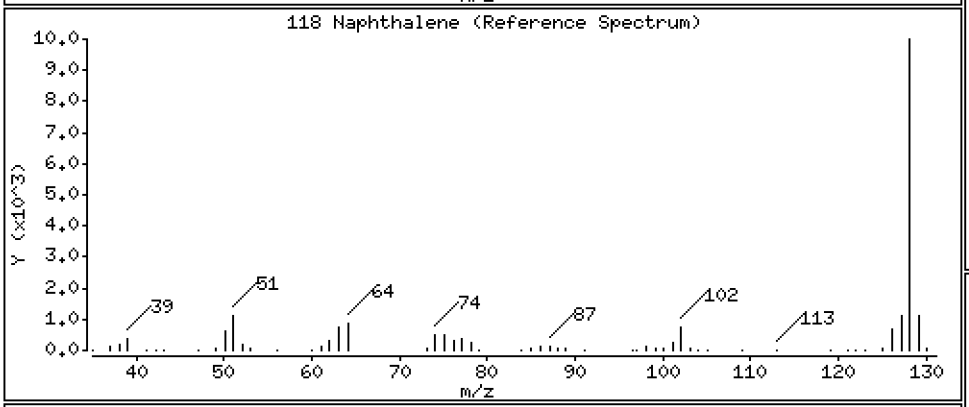
Purge Volume: 5.0 Operator: CJG

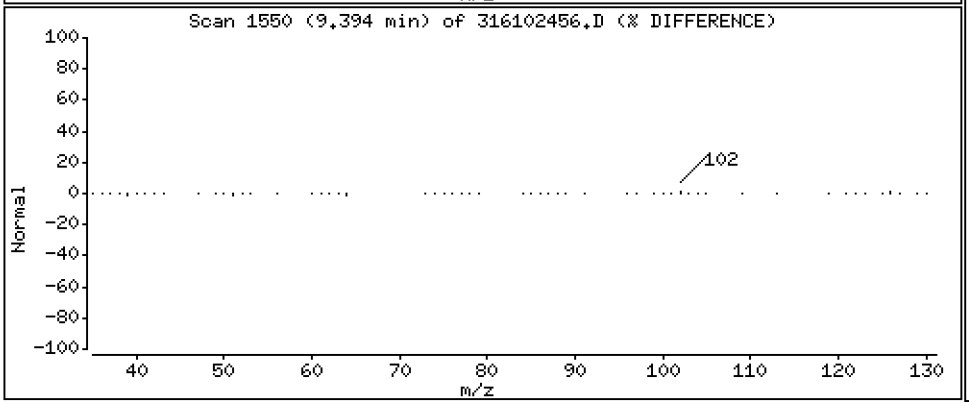
Column phase: DB-VRX Column diameter: 0.25

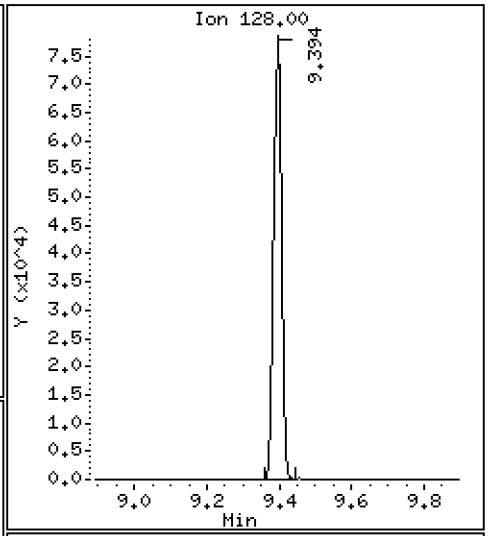
118 Naphthalene Concentration: 14.6181 ug/L

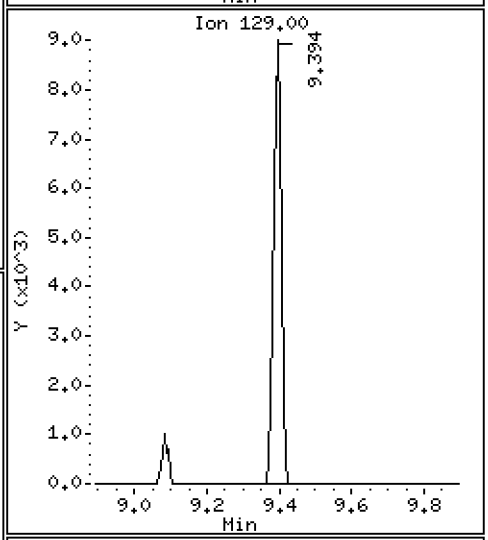


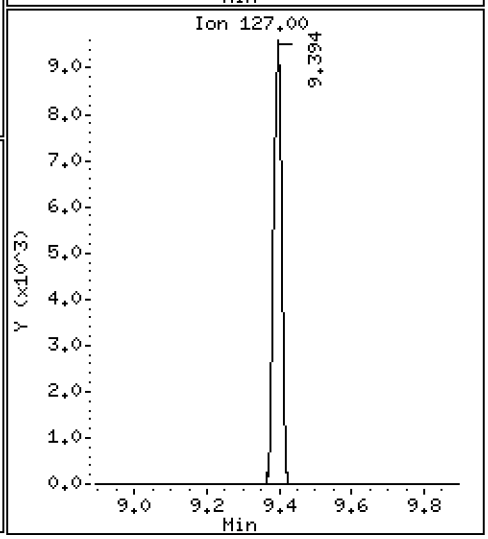












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102456.D Page 119

Date : 25-OCT-2016 00:30

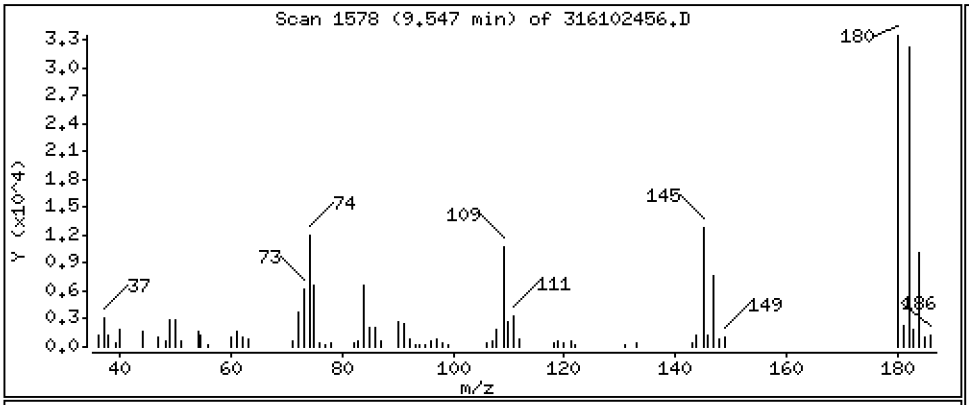
Client ID: Instrument: ms03.i

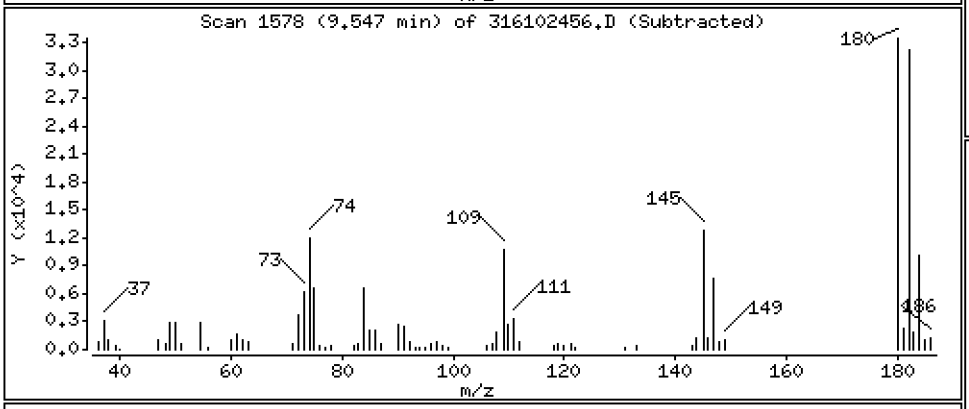
Sample Info: 1236;;1;1;3;;;

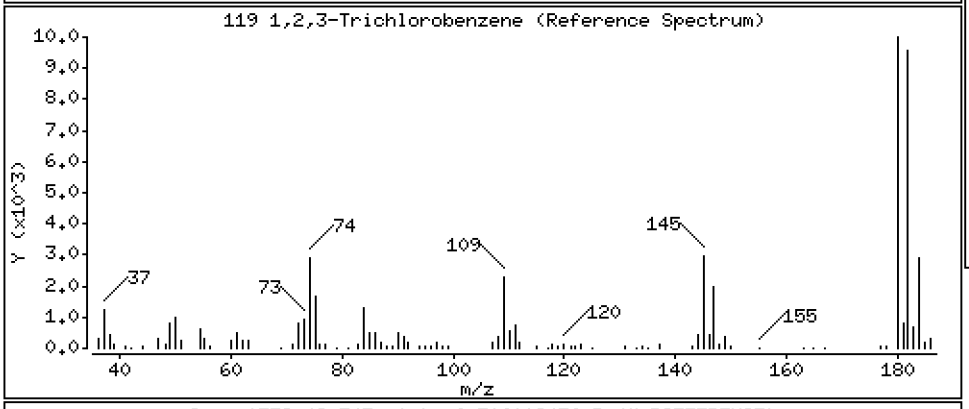
Purge Volume: 5.0 Operator: CJG

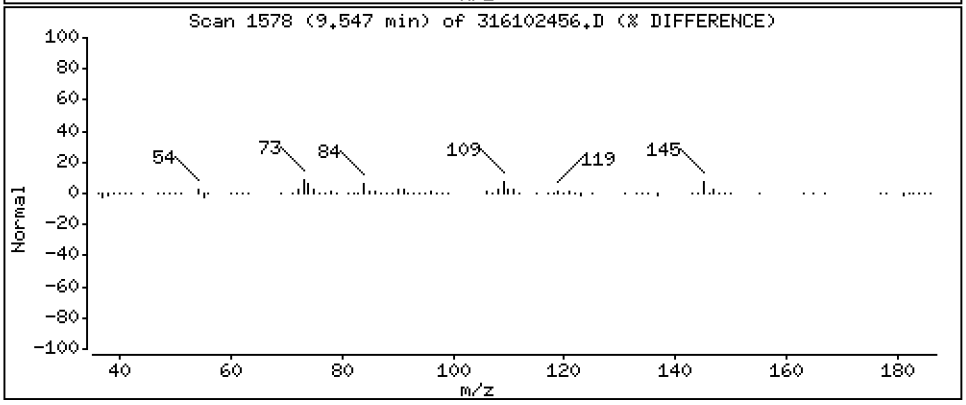
Column phase: DB-VRX Column diameter: 0.25

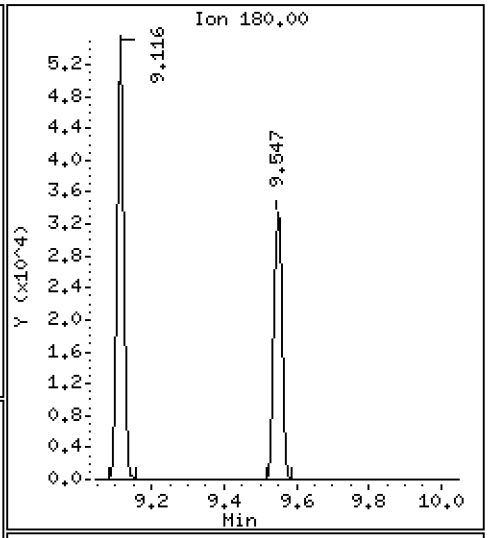
119 1,2,3-Trichlorobenzene Concentration: 18.4824 ug/L

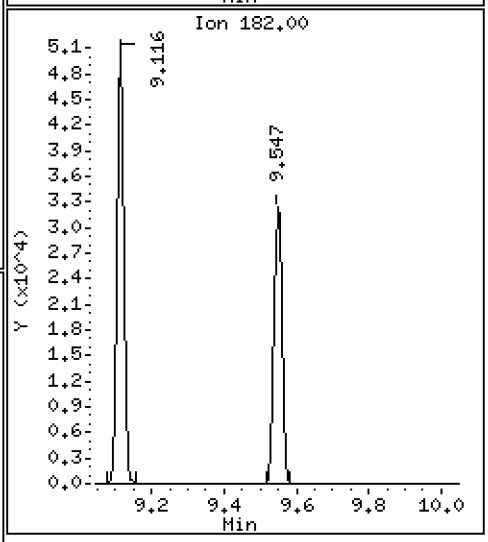








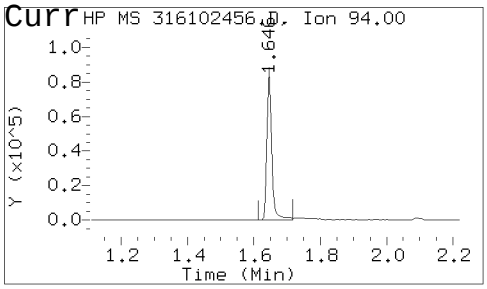


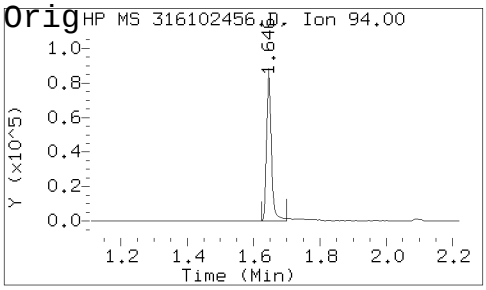


MANUAL INTEGRATION REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1236 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102456.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102456.D
Injection Date: 25-OCT-2016 00:30 Operator: CJG

Bromomethane

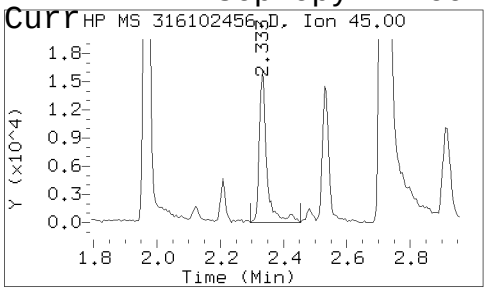


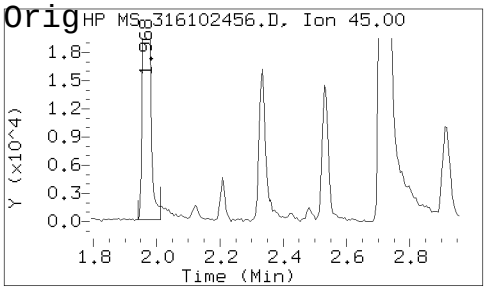


Curr. Area: 85332
Orig. Area: 84063

Curr. ON-COL: 20.7079
Orig. ON-COL: 16.2028

Isopropyl Alcohol

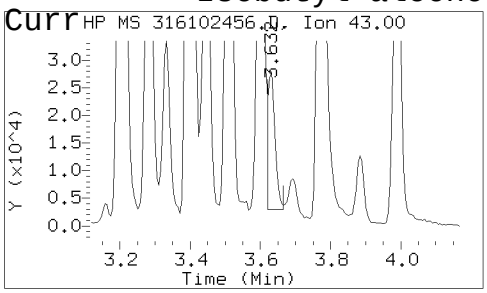


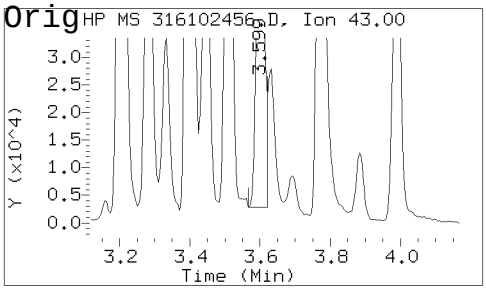


Curr. Area: 26915
Orig. Area: 114127

Curr. ON-COL: 102.011
Orig. ON-COL: 237.773

Isobutyl alcohol

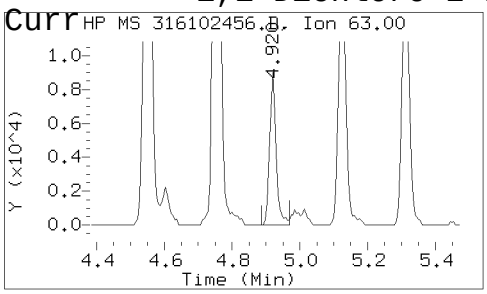


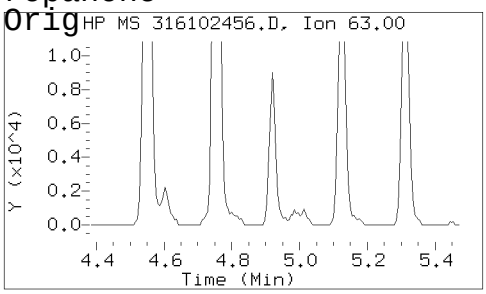


Curr. Area: 36016
Orig. Area: 120428

Curr. ON-COL: 218.271
Orig. ON-COL: 365.392

1,1-Dichloro-2-Propanone

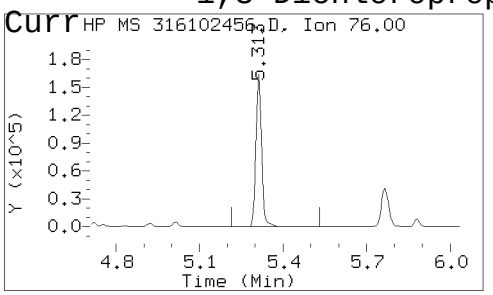


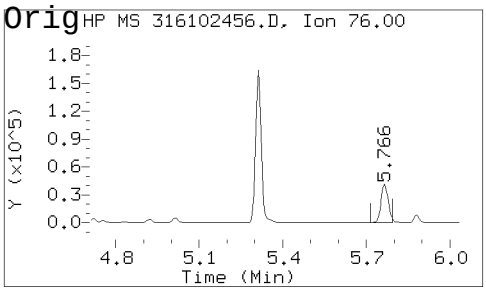


Curr. Area: 12224
Orig. Area: 0

Curr. ON-COL: 92.9587
Orig. ON-COL: 0.000000

1,3-Dichloropropane





Curr. Area: 233036
Orig. Area: 74592

Curr. ON-COL: 20.1134
Orig. ON-COL: 7.70992

UNASSIGNED PEAK REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1236 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102456.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102456.D
Injection Date: 25-OCT-2016 00:30 Operator: CJG

Data File: 316102457.D Page 1
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610245
Lab Smp Id: 1237
Inj Date : 25-OCT-2016 00:52
Operator : CJG Inst ID: ms03.i
Smp Info : 1237;;1;1;4;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b0
Meth Date : 25-Oct-2016 10:10 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 00:52 Cal File: 316102457.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: ALMDTW7062

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.259	(0.332)	604509	50.0000	49.1284	
2 Chloromethane	50	1.389	1.390	(0.367)	548264	50.0000	49.2994	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	622872	50.0000	49.0250	
4 Bromomethane	94	1.646	1.646	(0.434)	214551	50.0000	46.7273(M)	
5 Chloroethane	64	1.722	1.723	(0.454)	377249	50.0000	49.2161	
6 Pentane	41	1.793	1.794	(0.473)	326250	50.0000	49.2576	
7 Trichlorofluoromethane	101	1.804	1.799	(0.476)	661336	50.0000	49.7918	
8 Dichlorofluoromethane	67	1.831	1.826	(0.483)	830366	50.0000	49.4376	
9 Ethyl Ether	74	1.968	1.968	(0.519)	292497	50.0000	51.8611	
10 1,1-Dichloroethene	61	2.088	2.088	(0.551)	580548	50.0000	49.5928	
11 Freon 113	101	2.104	2.105	(0.555)	306743	50.0000	49.2609	
12 Carbon Disulfide	76	2.120	2.121	(0.560)	1028404	50.0000	48.4615	
13 Iodomethane	127	2.180	2.181	(0.575)	87895	50.0000	44.8691(M)	H
14 Acrolein	56	2.273	2.274	(0.600)	597096	500.000	503.843	
15 Isopropyl Alcohol	45	2.333	2.334	(0.616)	71076	250.000	262.088(M)	IH
16 3-Chloro-1-propene	41	2.344	2.345	(0.619)	533596	50.0000	48.5297	
17 Methylene Chloride	84	2.404	2.405	(0.634)	411186	50.0000	49.7290	
18 Acetone	58	2.426	2.427	(0.640)	157172	250.000	259.021	
19 Methyl acetate	74	2.480	2.481	(0.655)	64940	50.0000	51.5206	
20 trans-1,2-Dichloroethene	61	2.486	2.487	(0.656)	565467	50.0000	48.9962	
21 Hexane	57	2.519	2.519	(0.665)	798937	50.0000	48.6868	

Data File: 316102457.D Page 2
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.530	2.530	(0.667)	1065798	50.0000	50.2513	
	23 tert.- Butyl Alcohol	59	2.562	2.563	(0.676)	115099	250.000	249.972	
	24 Acetonitrile	41	2.682	2.683	(0.708)	191016	250.000	255.971	
	25 Diisopropyl ether	45	2.721	2.721	(0.718)	1434069	50.0000	49.8459	
	26 Chloroprene	53	2.797	2.798	(0.738)	586109	50.0000	49.6179	
	27 1,1-Dichloroethane	63	2.813	2.814	(0.742)	759304	50.0000	50.1512	
	28 Acrylonitrile	53	2.846	2.841	(0.751)	716761	250.000	250.124	
	29 Ethyl tert-butyl ether	59	2.912	2.912	(0.768)	1232428	50.0000	49.5113	
	30 n-Propanol	41	2.912	2.912	(0.768)	270517	500.000	499.266(a)	
	31 Vinyl Acetate	86	2.928	2.929	(0.773)	84581	50.0000	49.6409	
	32 cis-1,2-Dichloroethene	61	3.097	3.098	(0.817)	584868	50.0000	49.9502	
	33 2,2-Dichloropropane	77	3.163	3.158	(0.834)	485464	50.0000	49.1882	
	34 Bromochloromethane	128	3.206	3.207	(0.846)	167569	50.0000	48.3446	
	35 Cyclohexane	84	3.212	3.212	(0.847)	569743	50.0000	49.0909	
	36 Chloroform	83	3.233	3.234	(0.853)	740177	50.0000	50.0466	
	37 Ethyl Acetate	43	3.283	3.278	(0.866)	373747	50.0000	51.2737	
	38 Methyl acrylate	55	3.293	3.294	(0.869)	350736	50.0000	50.2316	
	39 Carbon Tetrachloride	117	3.326	3.321	(0.878)	399016	50.0000	49.1660	
	40 Tetrahydrofuran	42	3.332	3.327	(0.879)	571135	250.000	257.770	
$	41 Dibromofluoromethane	113	3.337	3.338	(0.881)	311950	50.0000	49.8272	
	42 1,1,1-Trichloroethane	97	3.359	3.360	(0.886)	534736	50.0000	48.5141	
	43 2-Butanone	72	3.397	3.398	(0.896)	242560	250.000	259.022	
	44 1,1-Dichloropropene	75	3.424	3.425	(0.904)	547661	50.0000	49.6954	
	45 1-Chlorobutane	41	3.446	3.447	(0.909)	439659	50.0000	49.6444	
	46 Heptane	71	3.512	3.512	(0.927)	243123	50.0000	46.9197	
	47 Benzene	78	3.561	3.567	(0.940)	1728908	50.0000	49.9488	
	48 Propionitrile	54	3.577	3.578	(0.944)	270956	250.000	257.569	
	49 Methacrylonitrile	67	3.588	3.583	(0.947)	165533	50.0000	51.2907	
	50 tert-Amyl methyl ether	73	3.599	3.600	(0.950)	973407	50.0000	49.5983	
$	51 1,2-Dichloroethane-d4	65	3.637	3.638	(0.960)	432919	50.0000	52.3714	
	52 1,2-Dichloroethane	62	3.675	3.676	(0.970)	518349	50.0000	50.0493	
	53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	98439	250.000	258.795	
	54 Isobutyl alcohol	43	3.632	3.632	(0.958)	105297	500.000	554.161(M)	
*	55 Fluorobenzene	96	3.790	3.791	(1.000)	1013164	30.0000		
	56 Diisobutylene	57	3.795	3.796	(1.001)	1002264	50.0000	48.1486	
	57 Trichloroethene	95	3.883	3.883	(1.024)	387285	50.0000	49.6362	
	58 Methyl cyclohexane	83	3.883	3.883	(0.674)	605169	50.0000	49.0502	
	59 tert-Amyl Ethylether	59	3.992	3.987	(1.053)	885470	50.0000	49.1298	
	60 Dibromomethane	93	4.139	4.139	(1.092)	216754	50.0000	49.5857	
	61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	444932	50.0000	49.6392	
	62 Bromodichloromethane	83	4.221	4.222	(1.114)	476823	50.0000	49.7277	
	63 Methyl methacrylate	41	4.292	4.293	(1.132)	335247	50.0000	49.4509	
	64 1,4-Dioxane	88	4.336	4.336	(1.144)	41985	1250.00	1304.81	
	65 2-Chloroethylvinyl ether	63	4.548	4.549	(1.200)	204686	50.0000	49.5586	
	66 cis-1,3-Dichloropropene	75	4.603	4.604	(0.799)	622591	50.0000	49.3887	
	67 Octane	85	4.608	4.609	(0.800)	161179	50.0000	46.7771	
$	68 Toluene-d8	98	4.723	4.724	(0.820)	1337772	50.0000	49.8375	
	69 Toluene	92	4.756	4.756	(0.826)	975477	50.0000	50.2185	
	70 Chloroacetonitrile	48	4.827	4.833	(0.838)	48185	250.000	256.720	
	71 2-Nitropropane	41	4.909	4.909	(0.852)	396365	250.000	257.525	
	72 1,1-Dichloro-2-Propanone	63	4.919	4.920	(0.854)	36699	250.000	257.360	
	73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.986	(0.865)	1932929	250.000	256.899	
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	254146	50.0000	50.5599	
	75 trans-1,3-Dichloropropene	75	5.012	5.013	(0.870)	547073	50.0000	49.5767	

Data File: 316102457.D Page 3
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.094	5.095	(0.884)	511373	50.0000	50.2242	
	77 1,1,2-Trichloroethane	83	5.121	5.122	(0.889)	285720	50.0000	50.5445	
	78 Chlorodibromomethane	129	5.247	5.247	(0.911)	288610	50.0000	49.3791	
	79 1,3-Dichloropropane	76	5.312	5.313	(0.922)	617496	50.0000	50.7518(M)	IH
	80 1,2-Dibromoethane	107	5.421	5.422	(0.941)	294636	50.0000	50.0352	
	81 2-Hexanone	43	5.541	5.542	(0.962)	1256478	250.000	255.973	
	82 1-Chlorohexane	91	5.738	5.739	(0.996)	479440	50.0000	47.2656	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	432864	30.0000		
	84 Chlorobenzene	112	5.771	5.777	(1.002)	962913	50.0000	50.0179	
	85 Ethylbenzene	106	5.782	5.782	(1.004)	528841	50.0000	49.7156	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.815	(1.009)	286379	50.0000	49.6438	
	87 mp-Xylene	106	5.880	5.880	(1.021)	1284852	100.000	99.5592	
	88 o-Xylene	106	6.196	6.197	(1.076)	598592	50.0000	49.1045	
	89 Styrene	104	6.234	6.235	(0.829)	1006811	50.0000	49.0855	
	90 Bromoform	173	6.262	6.262	(0.832)	129434	50.0000	49.1427	
	91 Isopropylbenzene	105	6.425	6.426	(0.854)	1529344	50.0000	48.9168	
$	92 4-Bromofluorobenzene	174	6.649	6.650	(0.884)	273260	50.0000	48.2809	
	93 Bromobenzene	156	6.731	6.732	(0.895)	314214	50.0000	49.2609	
	94 n-Propylbenzene	120	6.736	6.737	(0.896)	393218	50.0000	48.9344	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.792	(0.903)	380909	50.0000	50.6198	
	96 o-Chlorotoluene	91	6.867	6.868	(0.913)	1202947	50.0000	48.9687	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.915)	1176337	50.0000	48.8489	
	98 1,2,3-Trichloropropane	110	6.906	6.906	(0.918)	110760	50.0000	50.6977	
	99 trans-1,4-Dichloro-2-butene	53	6.933	6.933	(0.922)	101545	50.0000	49.3615	
M	100 1,2-Dichloroethene, Total	61				1150335	100.000	98.9464	
	101 p-Chlorotoluene	91	6.993	6.994	(0.930)	1101498	50.0000	48.7605	
	102 tert-Butylbenzene	134	7.140	7.141	(0.949)	252111	50.0000	48.5825	
	103 Pentachloroethane	117	7.162	7.163	(0.952)	218721	50.0000	48.6575	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.956)	1170245	50.0000	48.7715	
	105 sec-Butylbenzene	105	7.277	7.277	(0.967)	1401051	50.0000	48.1786	
	106 p-Isopropyltoluene	134	7.391	7.392	(0.983)	280188	50.0000	48.3429	
	107 1,3-Dichlorobenzene	146	7.462	7.463	(0.992)	551580	50.0000	48.4938	
*	108 1,4-Dichlorobenzene-d4	152	7.522	7.523	(1.000)	273837	30.0000		
	109 1,4-Dichlorobenzene	146	7.533	7.534	(1.001)	561432	50.0000	48.8968	
	110 Benzyl Chloride	126	7.735	7.736	(1.028)	75313	50.0000	48.1619	
	111 n-Butylbenzene	134	7.735	7.736	(1.028)	236744	50.0000	47.9123	
	112 Hexachloroethane	117	7.850	7.850	(1.044)	162166	50.0000	47.1132	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.047)	502959	50.0000	49.1431	
	114 1,2-Dibromo-3-chloropropane	75	8.542	8.542	(1.136)	43484	50.0000	50.4790	
	115 Nitrobenzene	77	9.023	9.029	(1.199)	19403	500.000	575.592	
	116 Hexachlorobutadiene	225	9.088	9.089	(1.208)	91411	50.0000	47.9736	
	117 1,2,4-Trichlorobenzene	180	9.115	9.116	(1.212)	216240	50.0000	49.3009	
	118 Naphthalene	128	9.394	9.394	(1.249)	415226	50.0000	50.5177	
	119 1,2,3-Trichlorobenzene	180	9.546	9.547	(1.269)	146462	50.0000	51.7359	
M	120 1,3-Dichloropropene, Total	75				1169664	100.000	98.9654	
M	121 Total Xylenes	106				1883444	150.000	148.664	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: 316102457.D Page 4
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 25-OCT-2016
Lab File ID: 316102457.D Calibration Time: 00:52
Lab Smp Id: 1237
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: CJG
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	1013164	0.00
83 Chlorobenzene-d5	432864	216432	865728	432864	0.00
108 1,4-Dichlorobenze	273837	136919	547674	273837	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102457.D Page 5
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1237
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	49.1284	
74-87-3	Chloromethane	49.2994	
75-01-4	Vinyl Chloride	49.0250	
74-83-9	Bromomethane	46.7273	
75-00-3	Chloroethane	49.2161	
109-66-0	Pentane	49.2576	
75-69-4	Trichlorofluoromethane	49.7918	
75-43-4	Dichlorofluoromethane	49.4376	
60-29-7	Ethyl Ether	51.8611	
75-35-4	1,1-Dichloroethene	49.5928	
76-13-1	Freon 113	49.2609	
75-15-0	Carbon Disulfide	48.4615	
74-88-4	Iodomethane	44.8691	
107-02-8	Acrolein	503.843	
67-63-0	Isopropyl Alcohol	262.088	
107-05-1	3-Chloro-1-propene	48.5297	
75-09-2	Methylene Chloride	49.7290	
67-64-1	Acetone	259.021	
79-20-9	Methyl acetate	51.5206	
156-60-5	trans-1,2-Dichloroethene	48.9962	
110-54-3	Hexane	48.6868	
1634-04-4	Methyl t-Butyl Ether	50.2513	
75-65-0	tert.- Butyl Alcohol	249.972	
75-05-8	Acetonitrile	255.971	
108-20-3	Diisopropyl ether	49.8459	
126-99-8	Chloroprene	49.6179	
75-34-3	1,1-Dichloroethane	50.1512	
107-13-1	Acrylonitrile	250.124	
637-92-3	Ethyl tert-butyl ether	49.5113	
71-23-8	n-Propanol	499.266	J
108-05-4	Vinyl Acetate	49.6409	
156-59-2	cis-1,2-Dichloroethene	49.9502	
594-20-7	2,2-Dichloropropane	49.1882	
74-97-5	Bromochloromethane	48.3446	
110-82-7	Cyclohexane	49.0909	
67-66-3	Chloroform	50.0466	
141-78-6	Ethyl Acetate	51.2737	
96-33-3	Methyl acrylate	50.2316	
56-23-5	Carbon Tetrachloride	49.1660	
109-99-9	Tetrahydrofuran	257.770	
71-55-6	1,1,1-Trichloroethane	48.5141	
78-93-3	2-Butanone	259.022	

Data File: 316102457.D Page 6
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1237
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
563-58-6	1,1-Dichloropropene	49.6954	
109-69-3	1-Chlorobutane	49.6444	
142-82-5	Heptane	46.9197	
71-43-2	Benzene	49.9488	
107-12-0	Propionitrile	257.569	
126-98-7	Methacrylonitrile	51.2907	
994-05-8	tert-Amyl methyl ether	49.5983	
107-06-2	1,2-Dichloroethane	50.0493	
75-85-4	tert-Amyl Alcohol	258.795	
78-83-1	Isobutyl alcohol	554.161	
107-39-1	Diisobutylene	48.1486	
79-01-6	Trichloroethene	49.6362	
108-87-2	Methyl cyclohexane	49.0502	
919-94-8	tert-Amyl Ethylether	49.1298	
74-95-3	Dibromomethane	49.5857	
78-87-5	1,2-Dichloropropane	49.6392	
75-27-4	Bromodichloromethane	49.7277	
80-62-6	Methyl methacrylate	49.4509	
123-91-1	1,4-Dioxane	1304.81	
110-75-8	2-Chloroethylvinyl ether	49.5586	
10061-01-5	cis-1,3-Dichloropropene	49.3887	
111-65-9	Octane	46.7771	
108-88-3	Toluene	50.2185	
107-14-2	Chloroacetonitrile	256.720	
79-46-9	2-Nitropropane	257.525	
513-88-2	1,1-Dichloro-2-Propanone	257.360	
108-10-1	4-Methyl-2-Pentanone(MIBK)	256.899	
127-18-4	Tetrachloroethene	50.5599	
10061-02-6	trans-1,3-Dichloropropene	49.5767	
97-63-2	Ethyl Methacrylate	50.2242	
79-00-5	1,1,2-Trichloroethane	50.5445	
124-48-1	Chlorodibromomethane	49.3791	
142-28-9	1,3-Dichloropropane	50.7518	
106-93-4	1,2-Dibromoethane	50.0352	
591-78-6	2-Hexanone	255.973	
544-10-5	1-Chlorohexane	47.2656	
108-90-7	Chlorobenzene	50.0179	
100-41-4	Ethylbenzene	49.7156	
630-20-6	1,1,1,2-Tetrachloroethane	49.6438	
108383/106423	m-p-Xylene	99.5592	
95-47-6	o-Xylene	49.1045	
100-42-5	Styrene	49.0855	

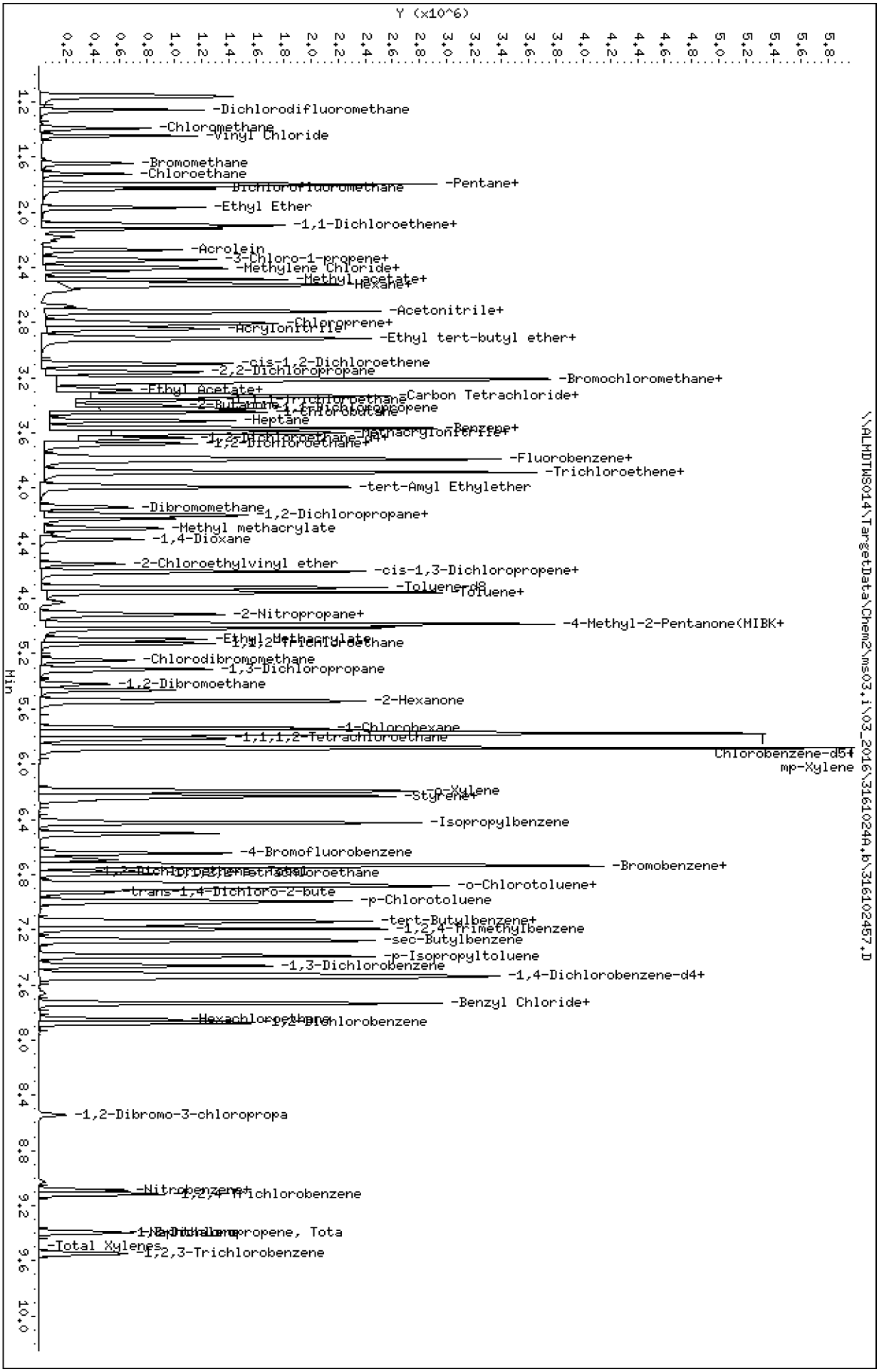
Data File: 316102457.D Page 7
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1237
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-25-2	Bromoform	49.1427	
98-82-8	Isopropylbenzene	48.9168	
108-86-1	Bromobenzene	49.2609	
103-65-1	n-Propylbenzene	48.9344	
79-34-5	1,1,2,2-Tetrachloroethane	50.6198	
95-49-8	o-Chlorotoluene	48.9687	
108-67-8	1,3,5-Trimethylbenzene	48.8489	
96-18-4	1,2,3-Trichloropropane	50.6977	
110-57-6	trans-1,4-Dichloro-2-butene	49.3615	
540-59-0	1,2-Dichloroethene, Total	98.9464	
106-43-4	p-Chlorotoluene	48.7605	
98-06-6	tert-Butylbenzene	48.5825	
76-01-7	Pentachloroethane	48.6575	
95-63-6	1,2,4-Trimethylbenzene	48.7715	
135-98-8	sec-Butylbenzene	48.1786	
99-87-6	p-Isopropyltoluene	48.3429	
541-73-1	1,3-Dichlorobenzene	48.4938	
106-46-7	1,4-Dichlorobenzene	48.8968	
100-44-7	Benzyl Chloride	48.1619	
104-51-8	n-Butylbenzene	47.9123	
67-72-1	Hexachloroethane	47.1132	
95-50-1	1,2-Dichlorobenzene	49.1431	
96-12-8	1,2-Dibromo-3-chloropropane	50.4790	
98-95-3	Nitrobenzene	575.592	
87-68-3	Hexachlorobutadiene	47.9736	
120-82-1	1,2,4-Trichlorobenzene	49.3009	
91-20-3	Naphthalene	50.5177	
87-61-6	1,2,3-Trichlorobenzene	51.7359	
542-75-6	1,3-Dichloropropene, Total	98.9654	
1330-20-7	Total Xylenes	148.664	
1868-53-7	Dibromofluoromethane	49.8272	
17060-07-0	1,2-Dichloroethane-d4	52.3714	
2037-26-5	Toluene-d8	49.8375	
460-00-4	4-Bromofluorobenzene	48.2809	


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Hexane+
-Acetonitrile+
-Acrylonitrile
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Carbon Tetrachloride+
-Heptane
-Benzene+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK+
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-o-Xylene
-Styrene+
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-Total Xylenes
-1,2,3-Trichlorobenzene
Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S7.D
Date : 25-OCT-2016 00:52
Client ID:
Sample Info: 1237;;1;1;4;;;
Purge Volume: 5.0
Column phase: DB-VRX
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S7.D
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
Page 8

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 9

Date : 25-OCT-2016 00:52

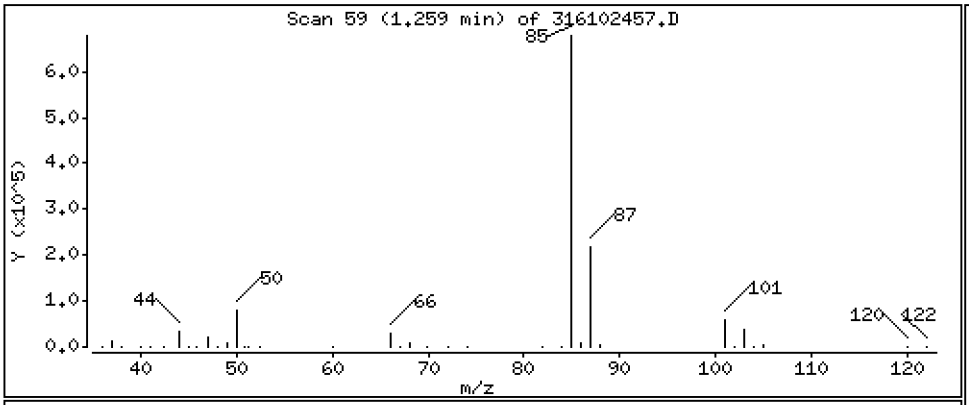
Client ID: Instrument: ms03.i

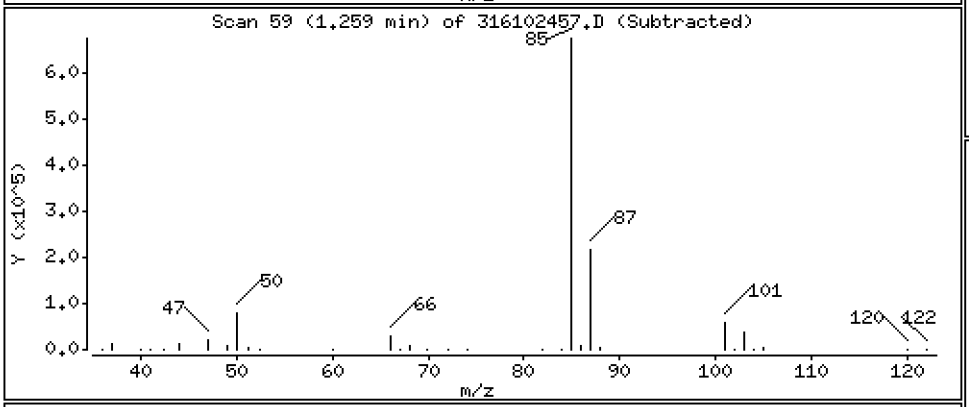
Sample Info: 1237;;1;1;4;;;

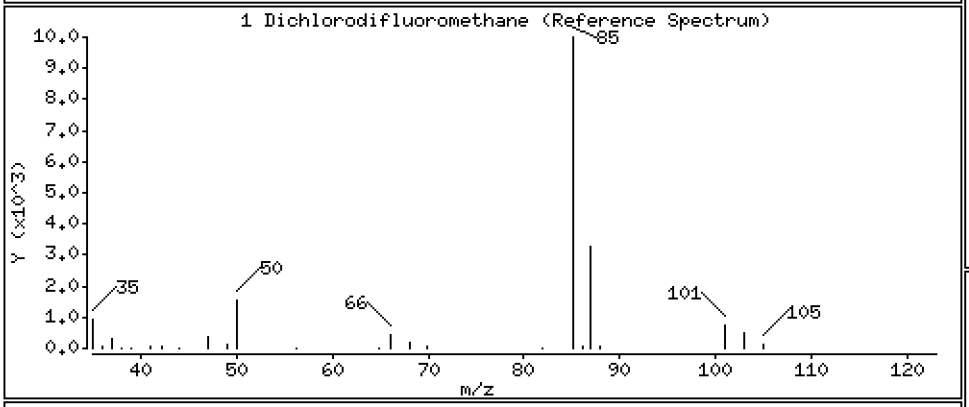
Purge Volume: 5.0 Operator: CJG

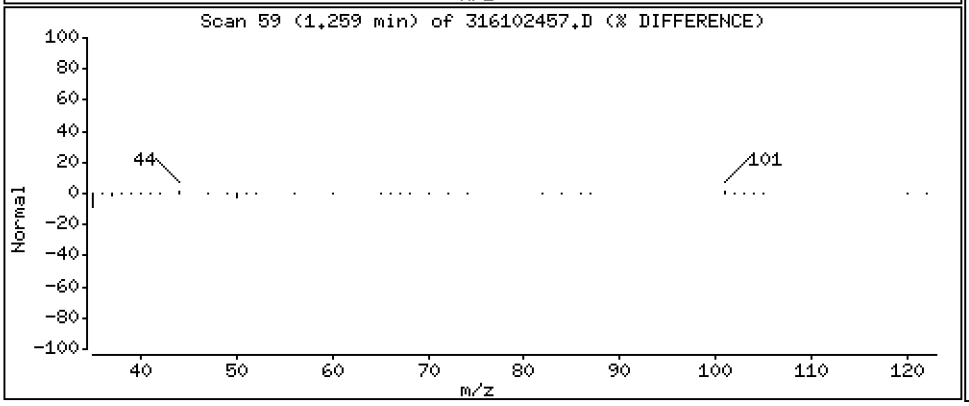
Column phase: DB-VRX Column diameter: 0.25

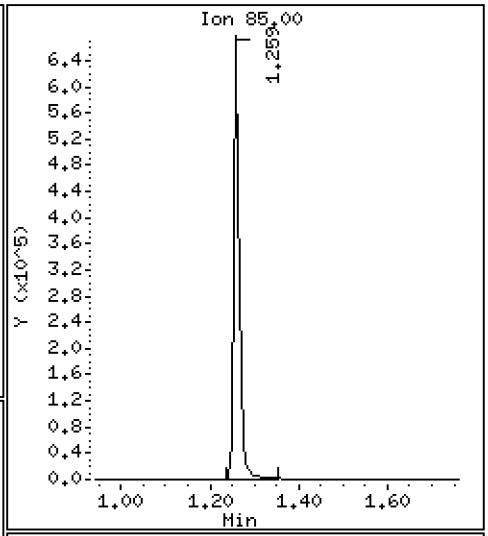
1 Dichlorodifluoromethane Concentration: 49.1284 ug/L

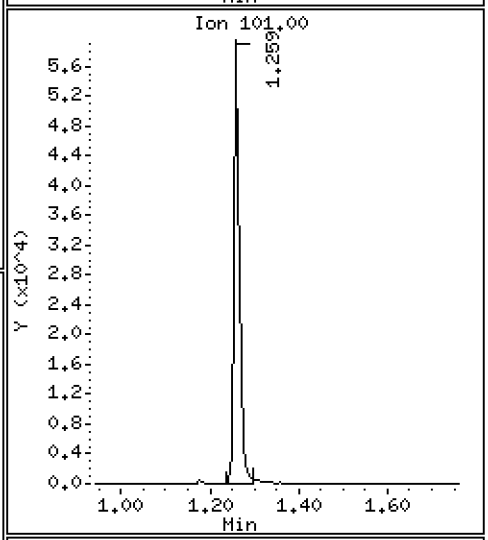


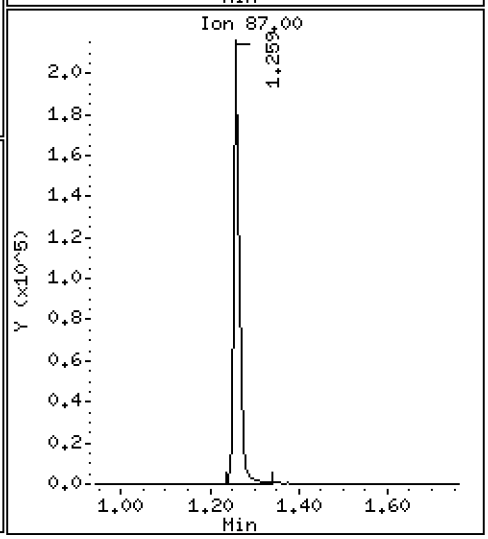












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 10

Date : 25-OCT-2016 00:52

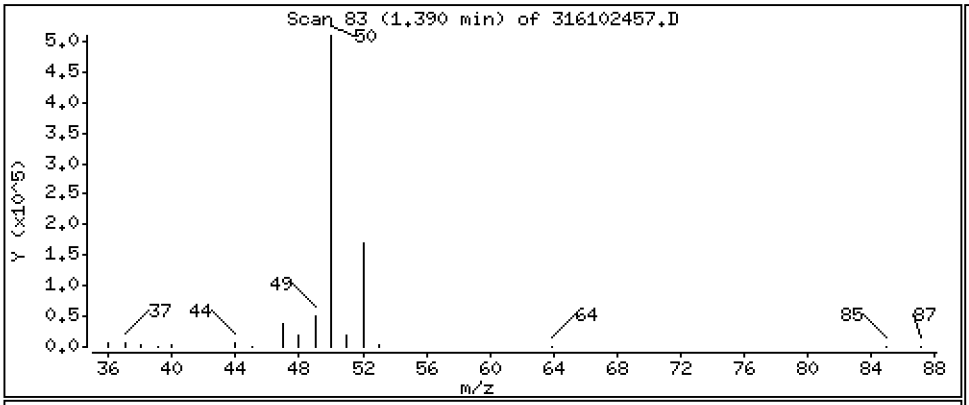
Client ID: Instrument: ms03.i

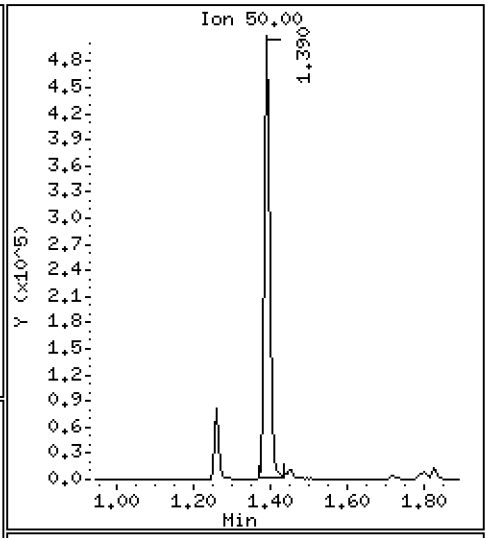
Sample Info: 1237;;1;1;4;;;

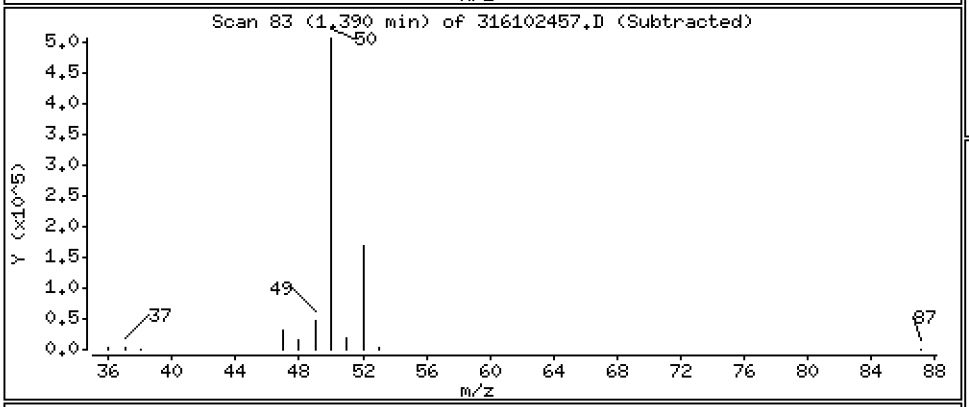
Purge Volume: 5.0 Operator: CJG

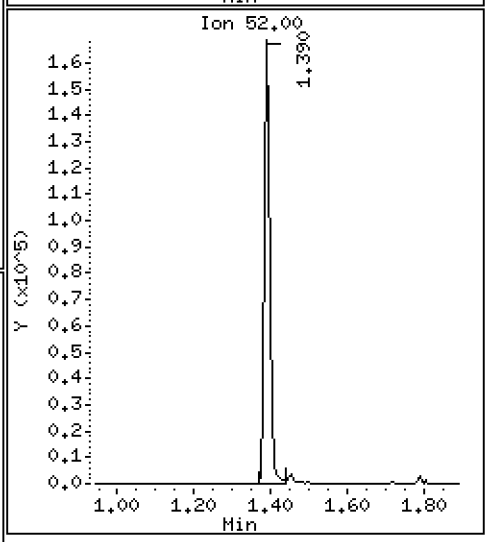
Column phase: DB-VRX Column diameter: 0.25

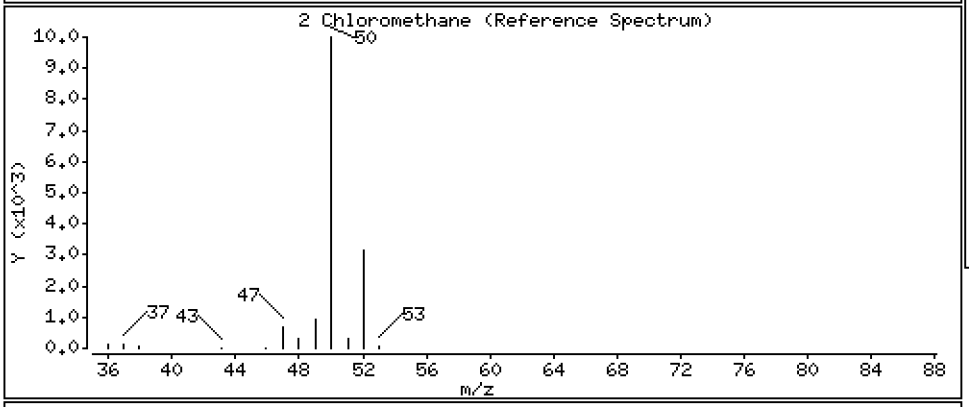
2 Chloromethane Concentration: 49.2994 ug/L

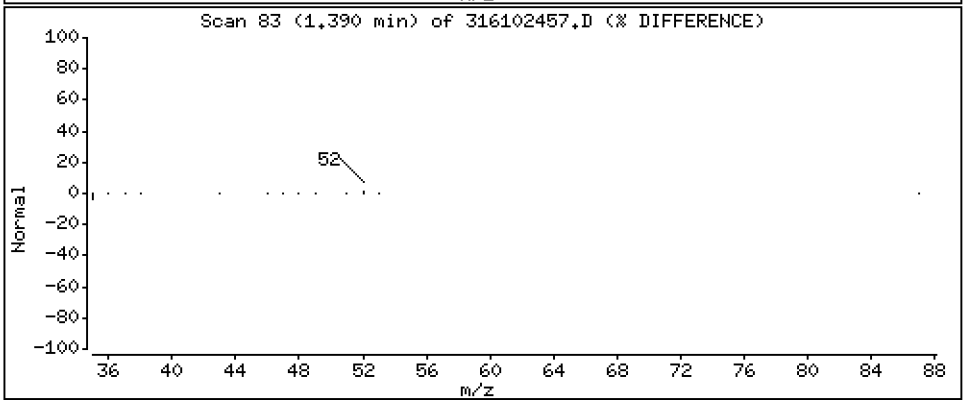












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 11

Date : 25-OCT-2016 00:52

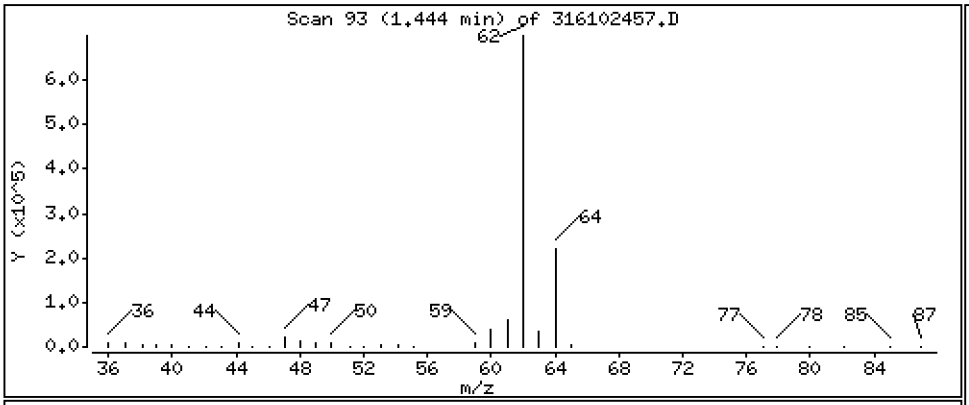
Client ID: Instrument: ms03.i

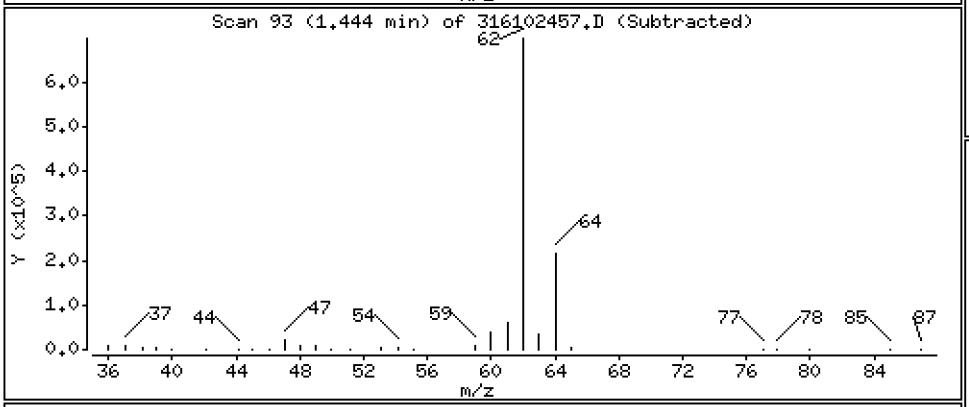
Sample Info: 1237;;1;1;4;;;

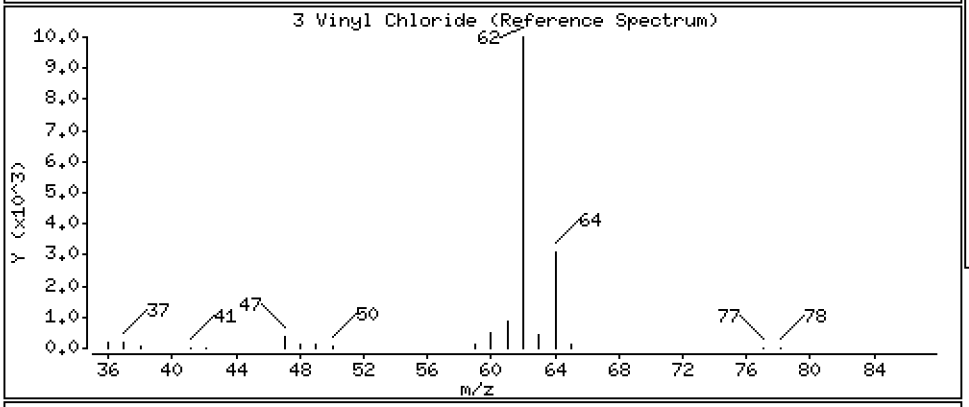
Purge Volume: 5.0 Operator: CJG

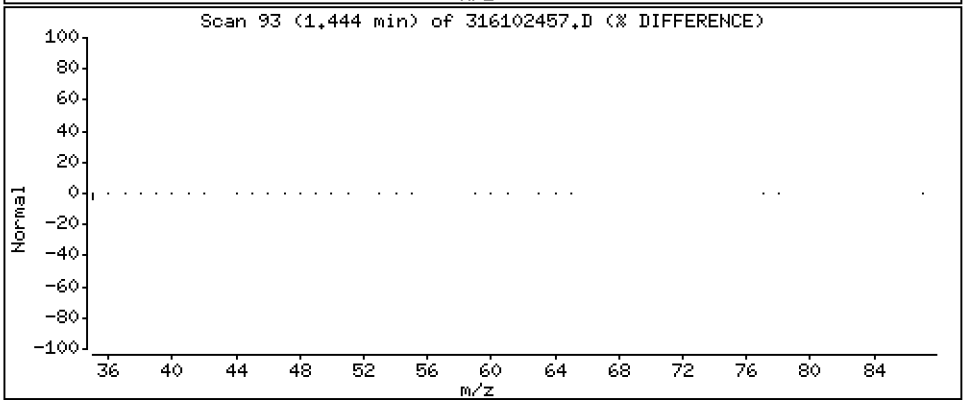
Column phase: DB-VRX Column diameter: 0.25

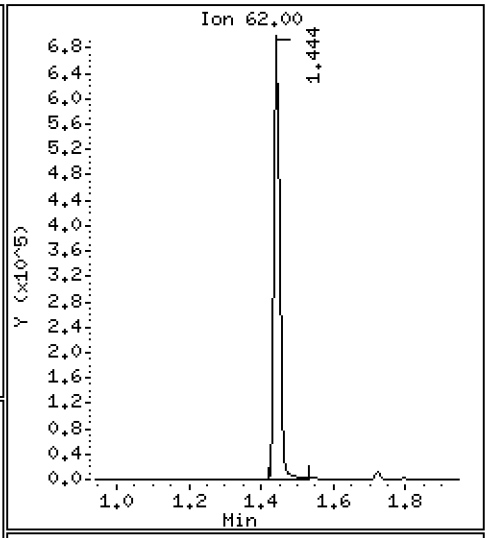
3 Vinyl Chloride Concentration: 49.0250 ug/L

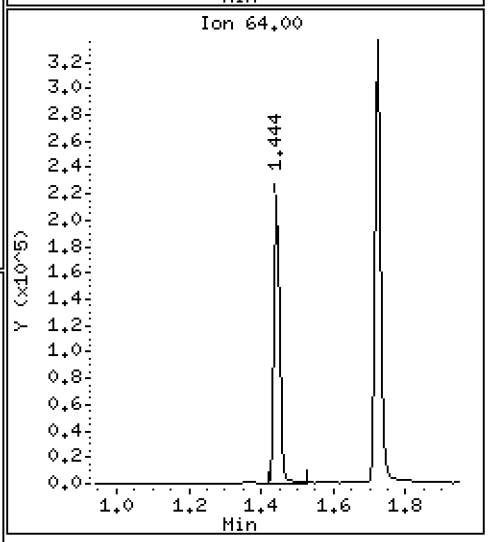












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 12

Date : 25-OCT-2016 00:52

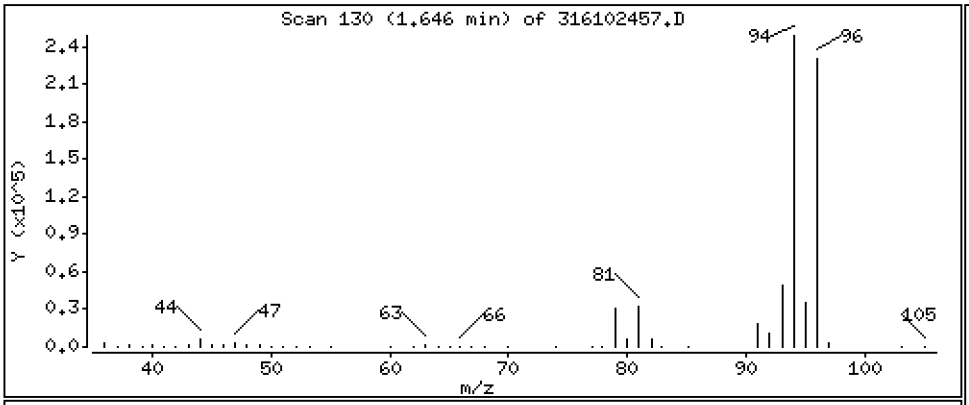
Client ID: Instrument: ms03.i

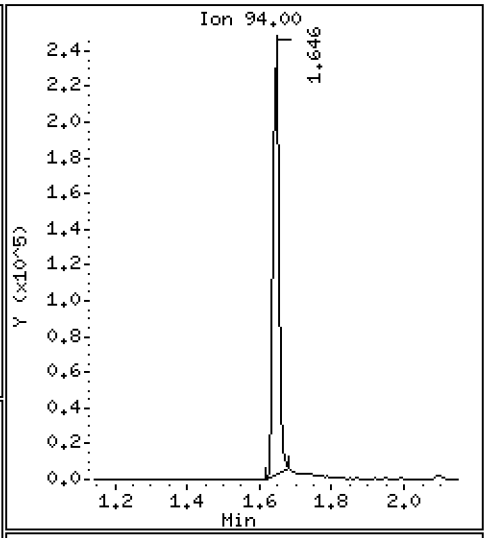
Sample Info: 1237;;1;1;4;;;

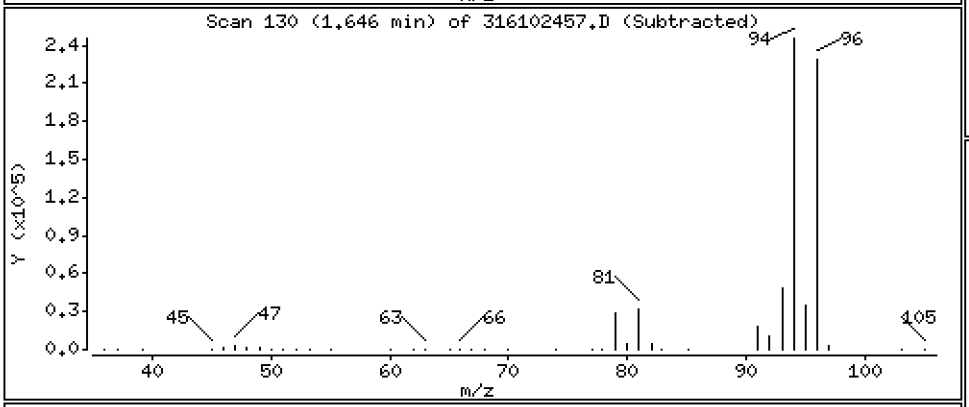
Purge Volume: 5.0 Operator: CJG

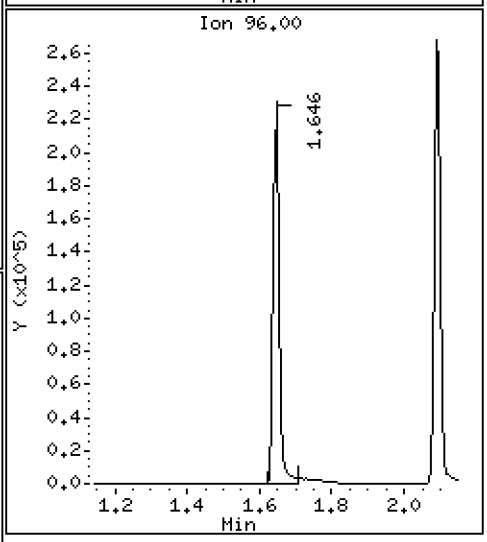
Column phase: DB-VRX Column diameter: 0.25

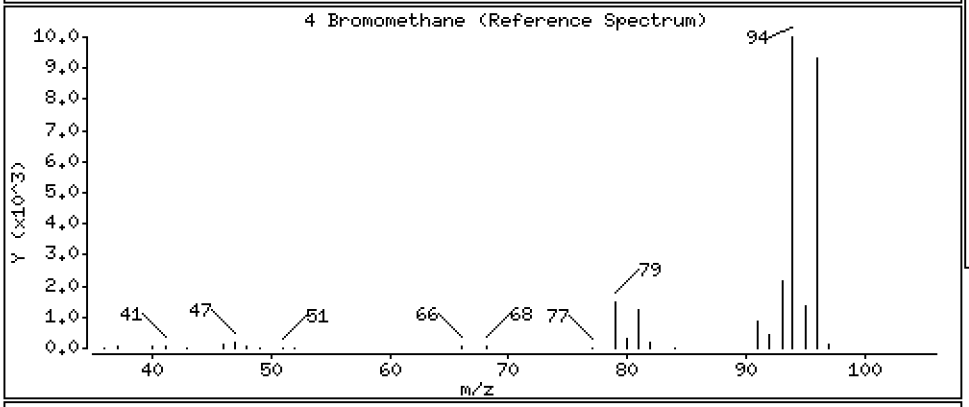
4 Bromomethane Concentration: 46.7273 ug/L

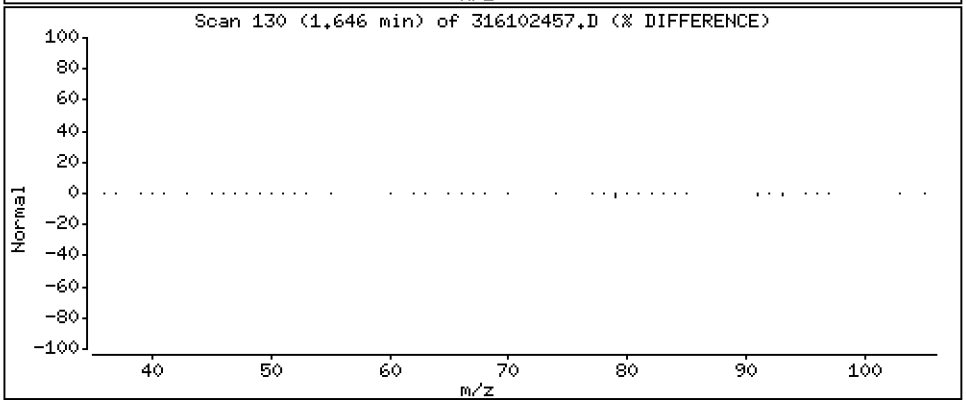












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 13

Date : 25-OCT-2016 00:52

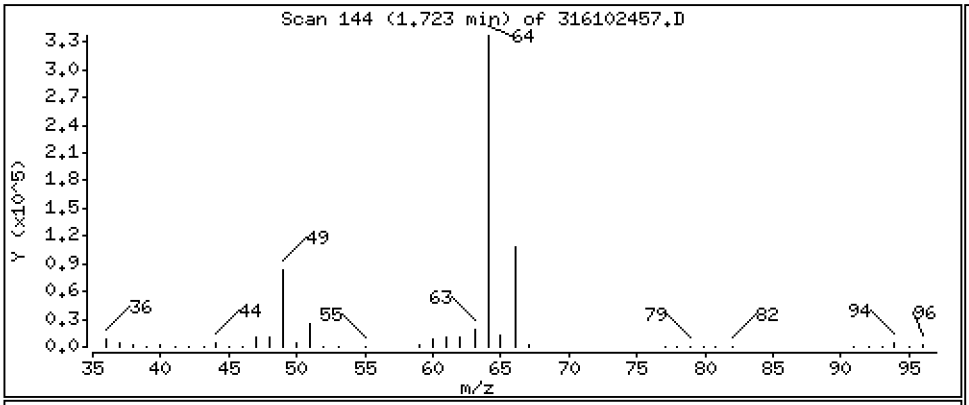
Client ID: Instrument: ms03.i

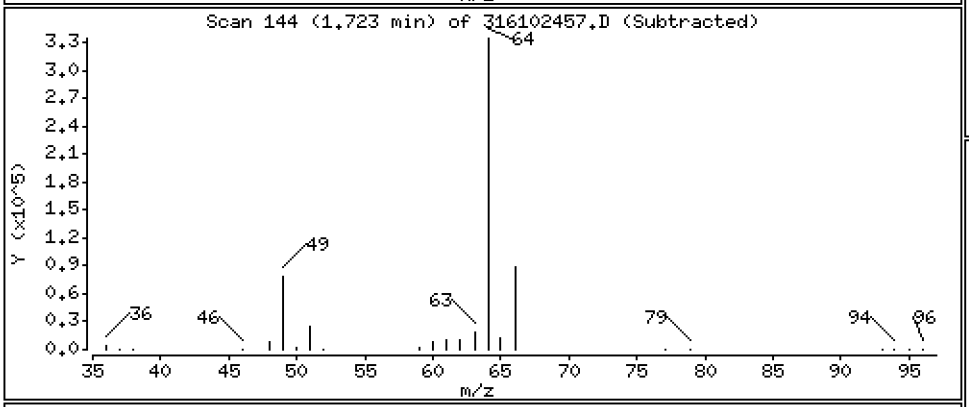
Sample Info: 1237;;1;1;4;;;

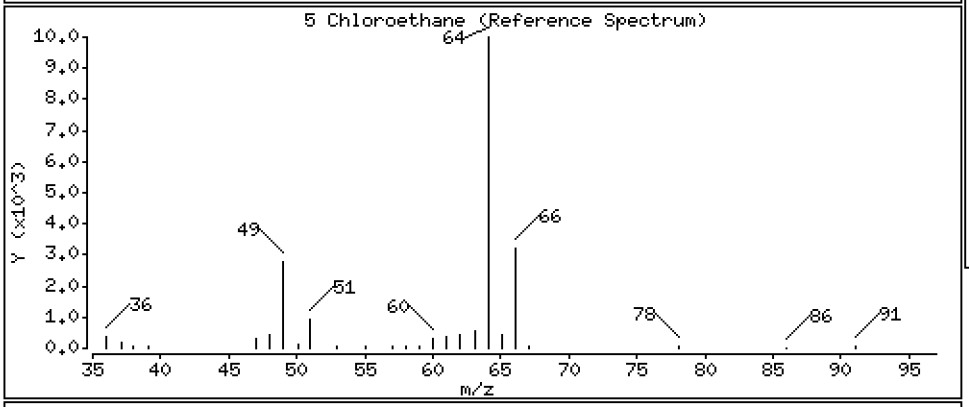
Purge Volume: 5.0 Operator: CJG

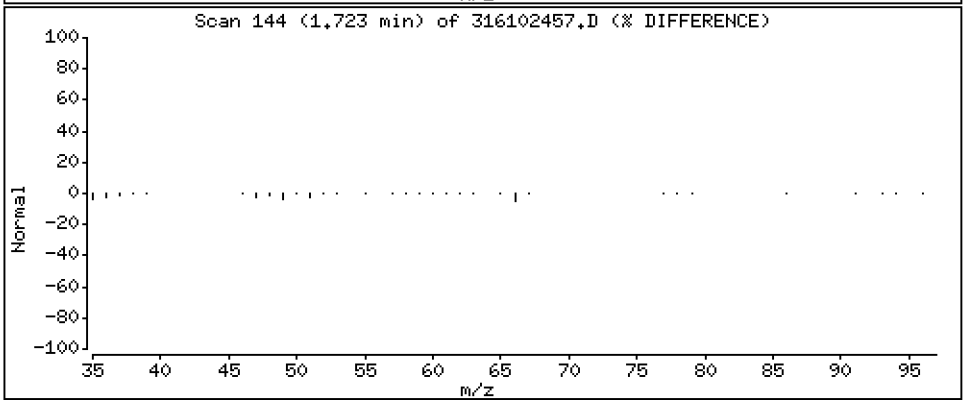
Column phase: DB-VRX Column diameter: 0.25

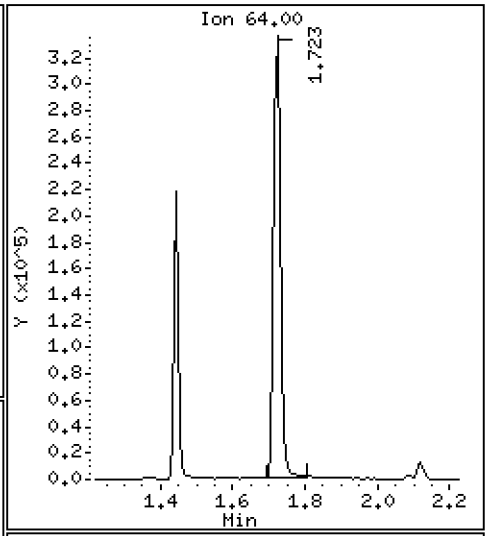
5 Chloroethane Concentration: 49.2161 ug/L

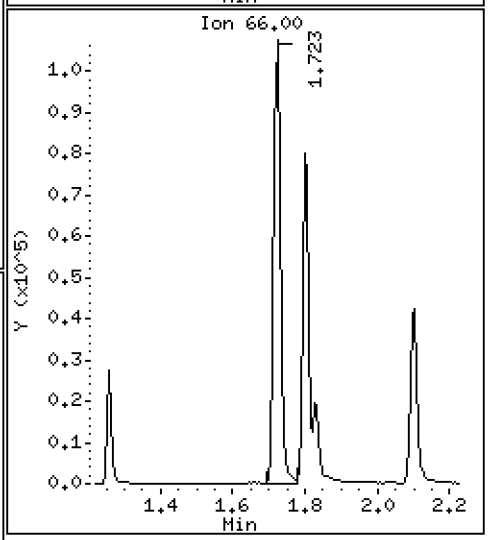












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 14

Date : 25-OCT-2016 00:52

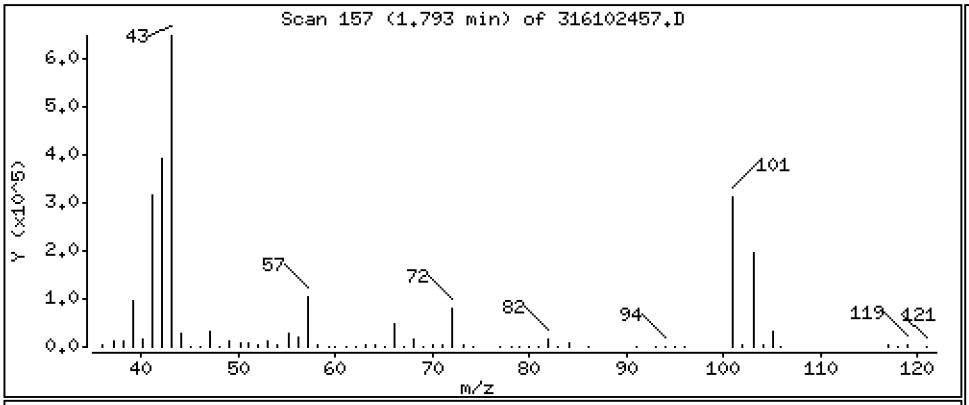
Client ID: Instrument: ms03.i

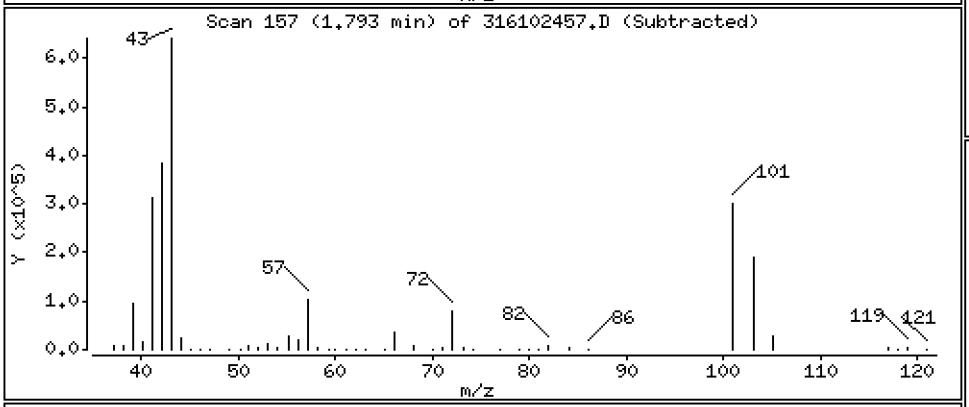
Sample Info: 1237;;1;1;4;;;

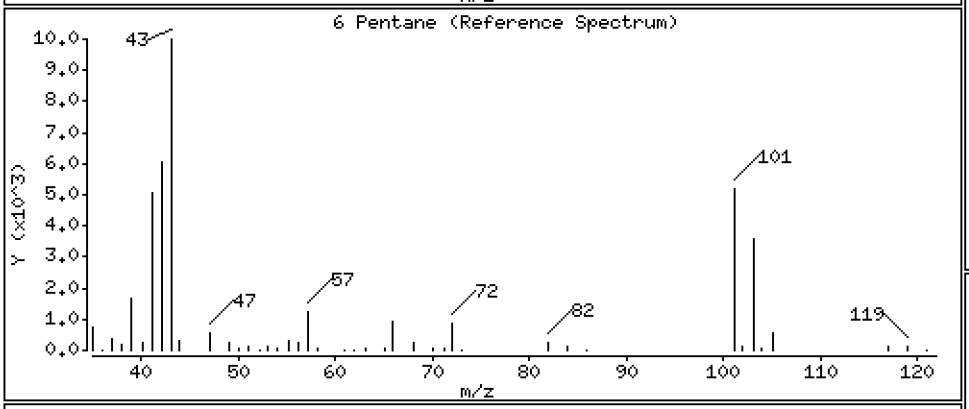
Purge Volume: 5.0 Operator: CJG

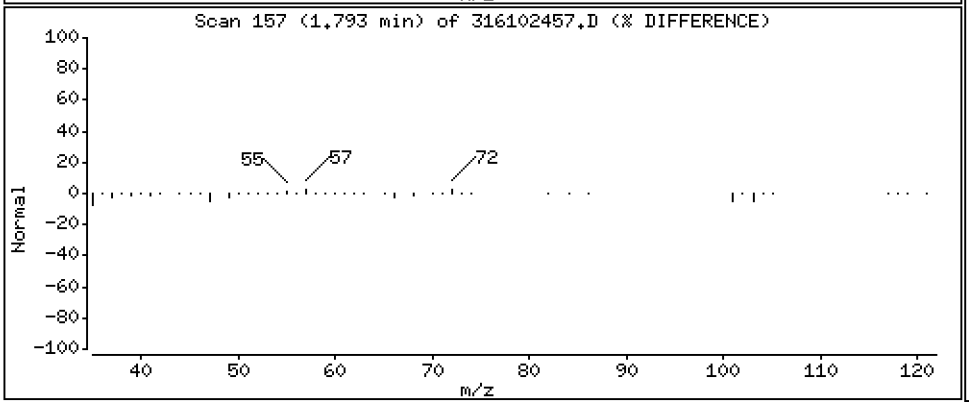
Column phase: DB-VRX Column diameter: 0.25

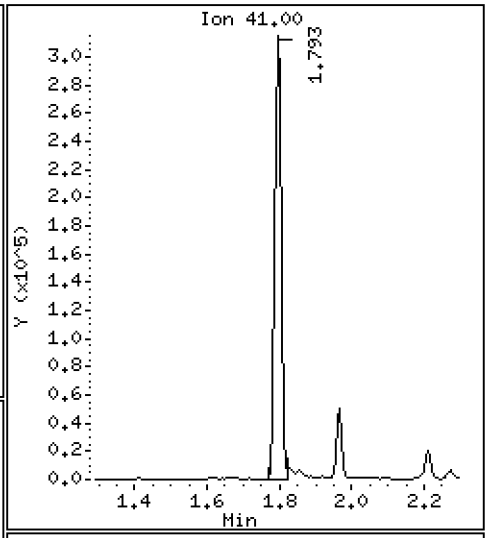
6 Pentane Concentration: 49.2576 ug/L

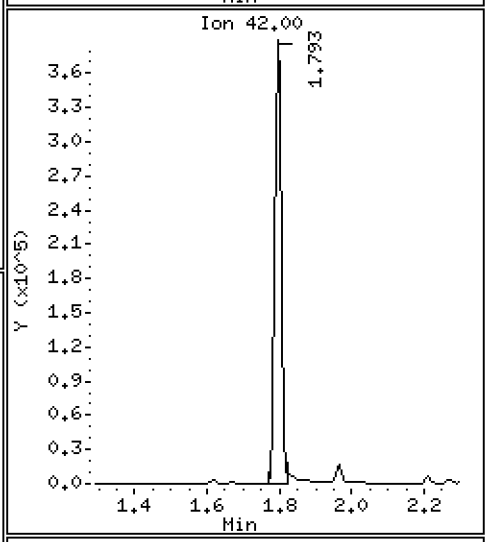


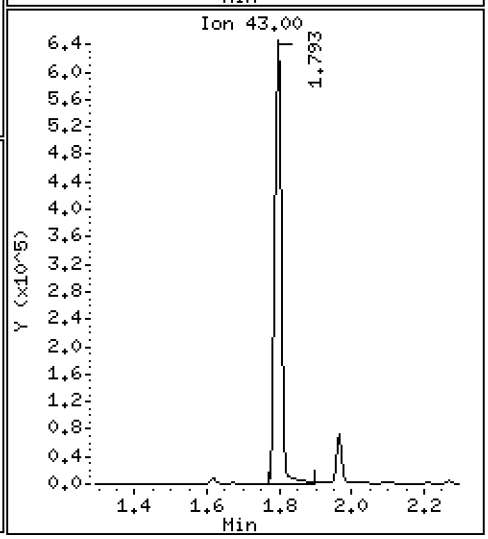












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 15

Date : 25-OCT-2016 00:52

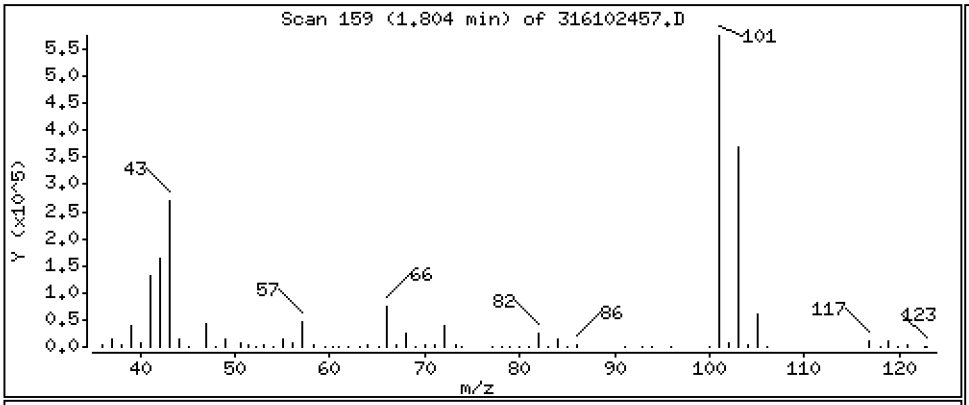
Client ID: Instrument: ms03.i

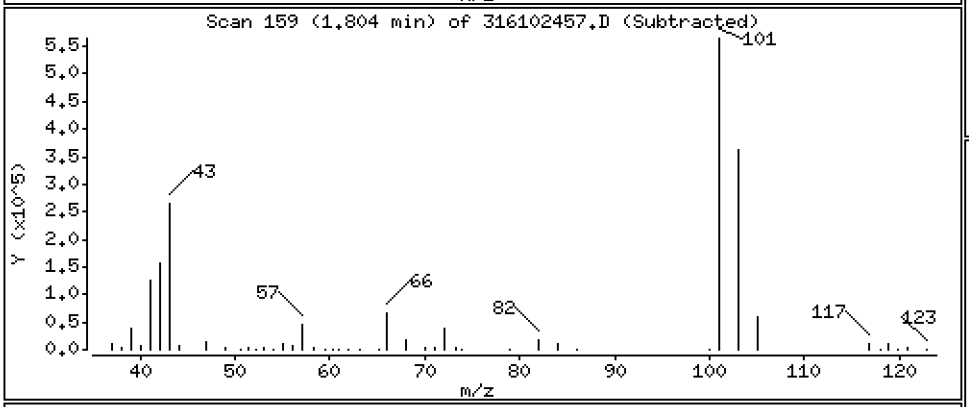
Sample Info: 1237;;1;1;4;;;

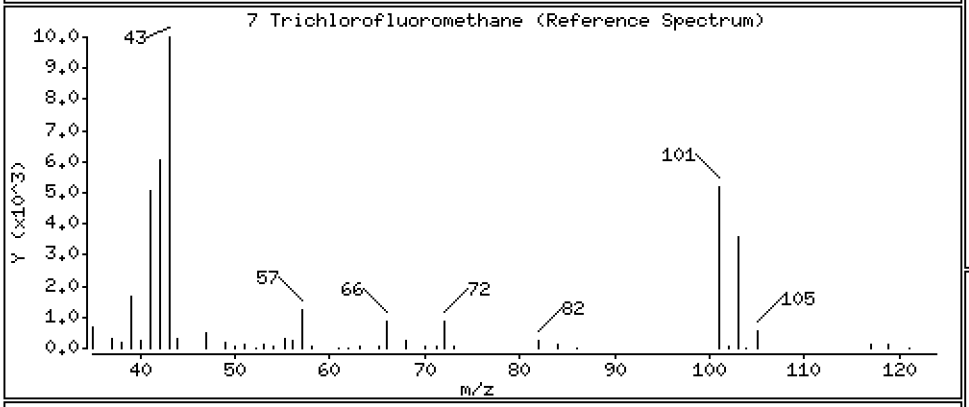
Purge Volume: 5.0 Operator: CJG

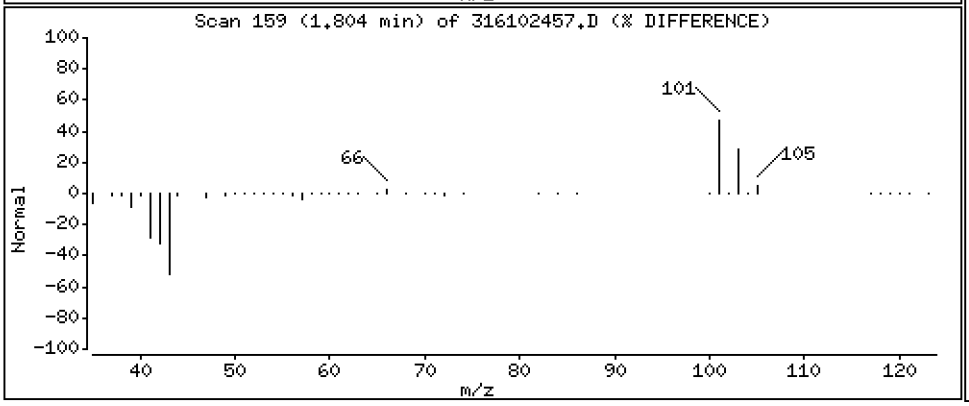
Column phase: DB-VRX Column diameter: 0.25

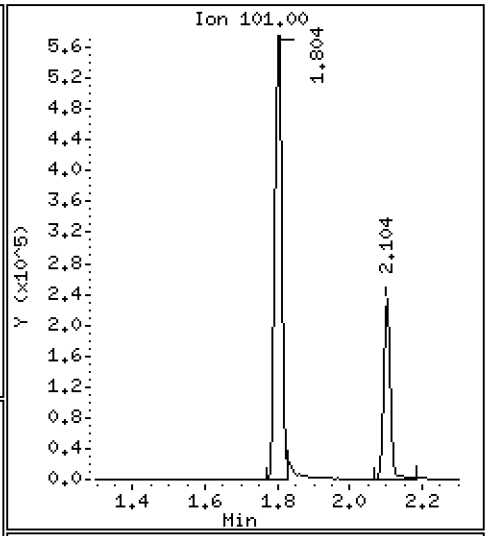
7 Trichlorofluoromethane Concentration: 49.7918 ug/L

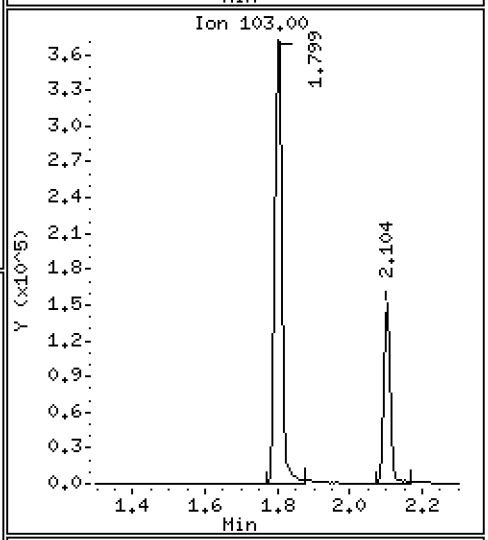


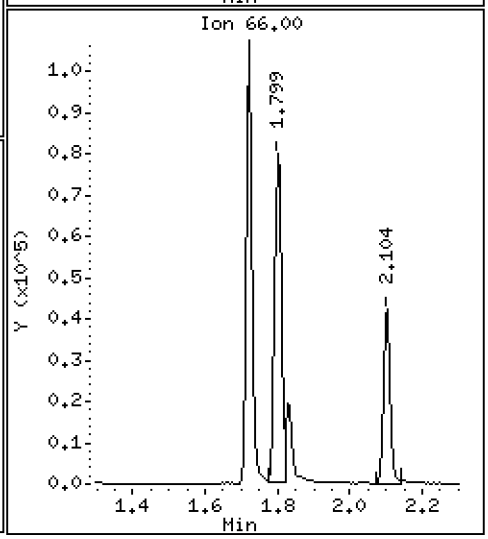












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 16

Date : 25-OCT-2016 00:52

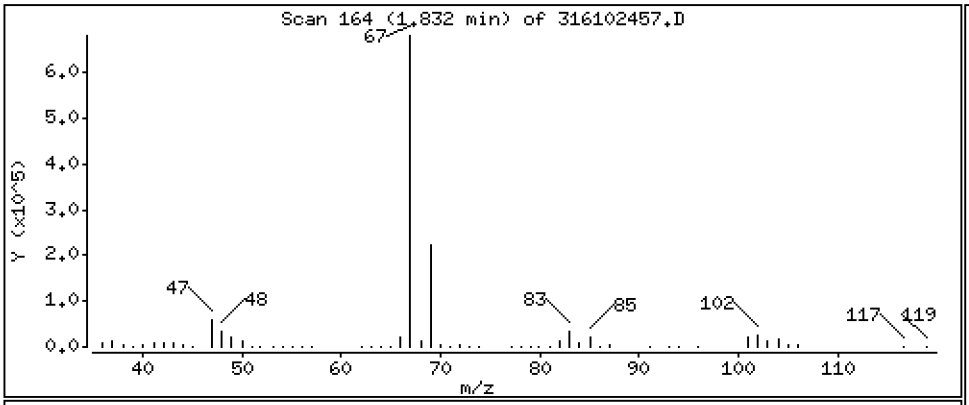
Client ID: Instrument: ms03.i

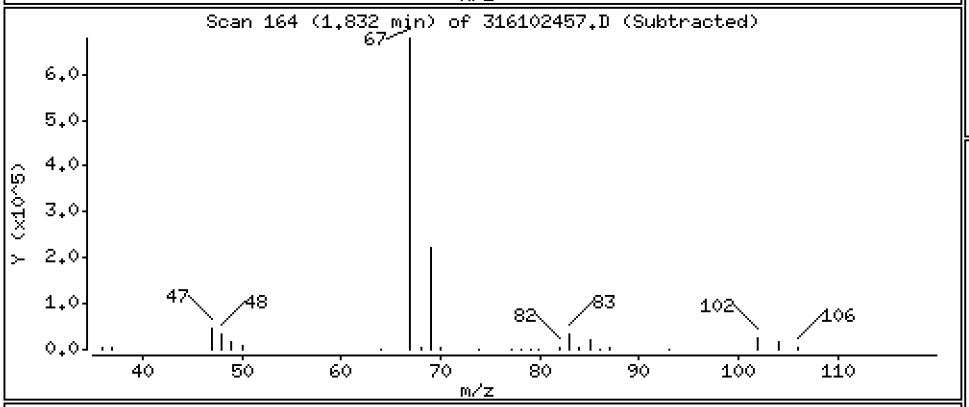
Sample Info: 1237;;1;1;4;;;

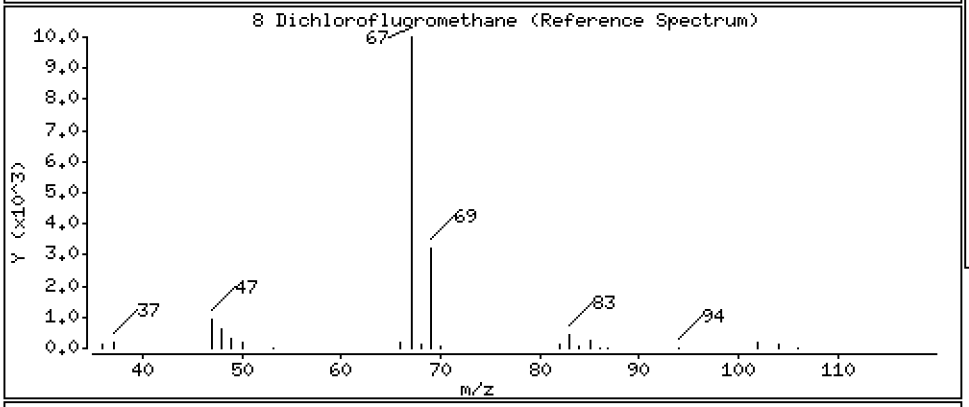
Purge Volume: 5.0 Operator: CJG

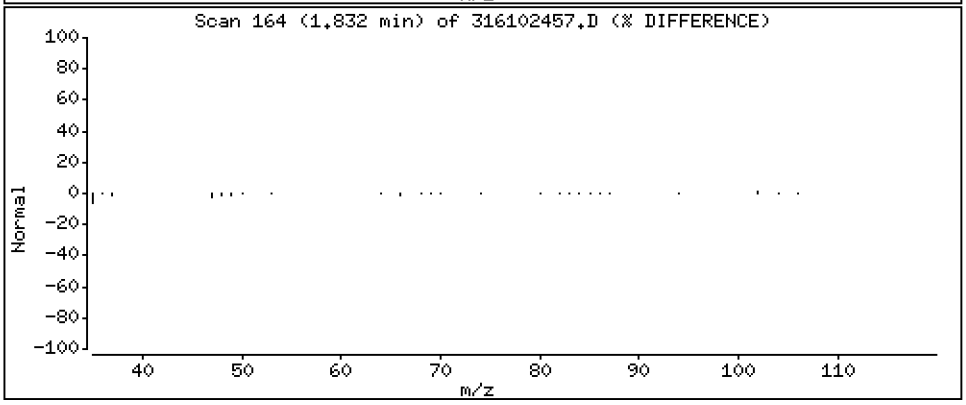
Column phase: DB-VRX Column diameter: 0.25

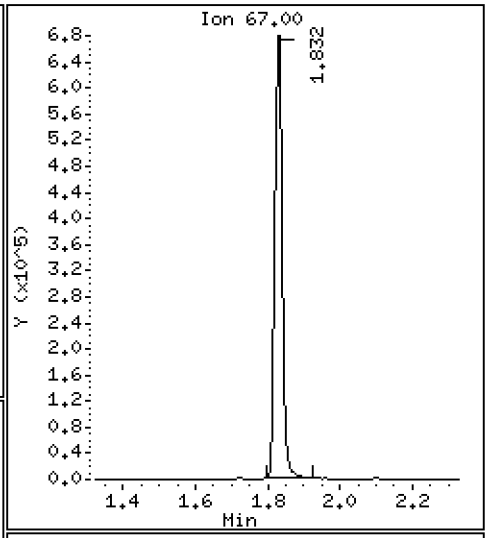
8 Dichlorofluoromethane Concentration: 49.4376 ug/L

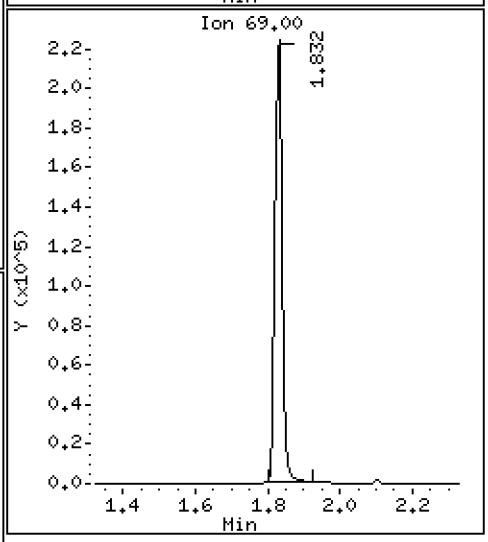












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 17

Date : 25-OCT-2016 00:52

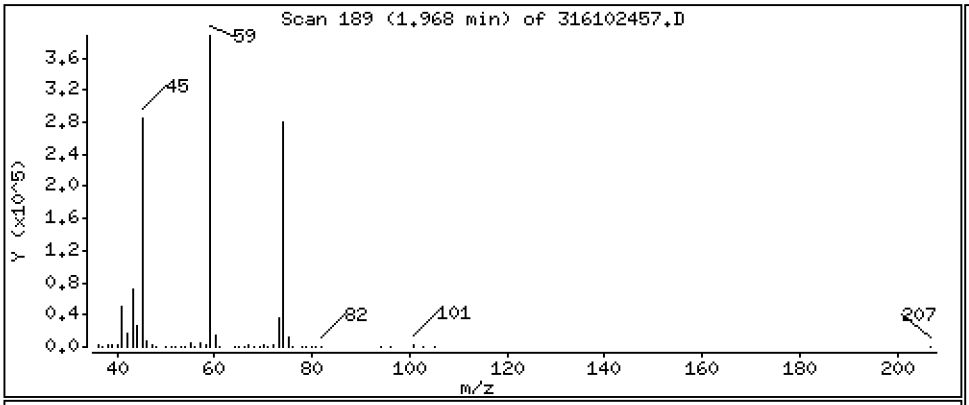
Client ID: Instrument: ms03.i

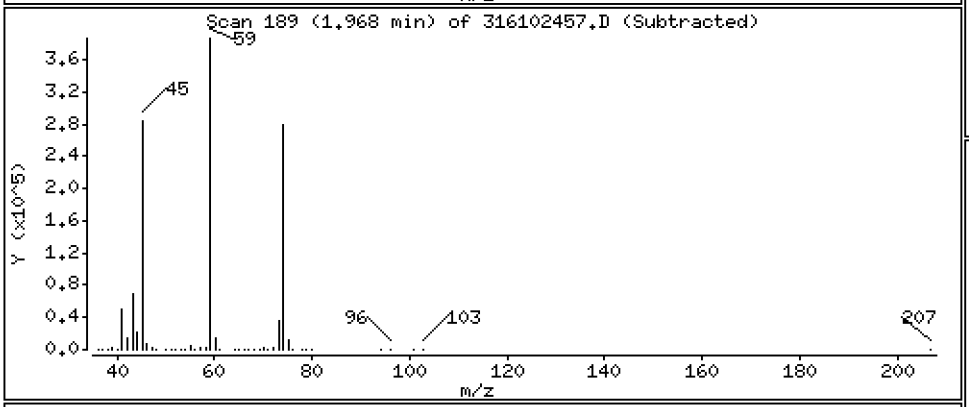
Sample Info: 1237;;1;1;4;;;

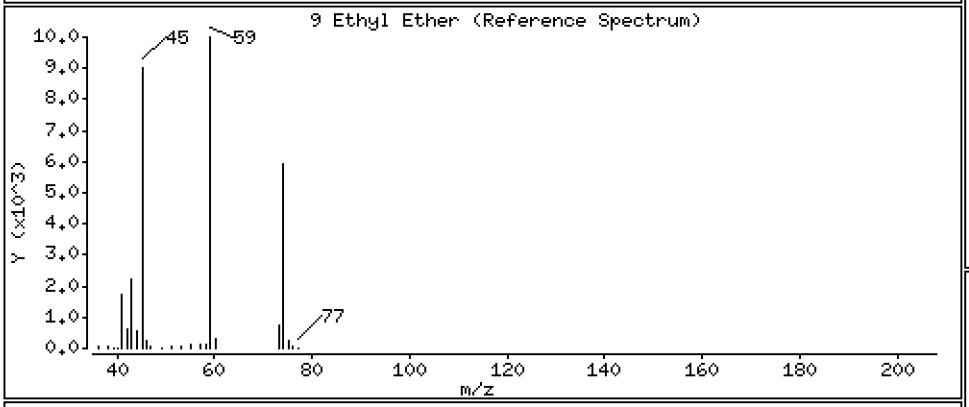
Purge Volume: 5.0 Operator: CJG

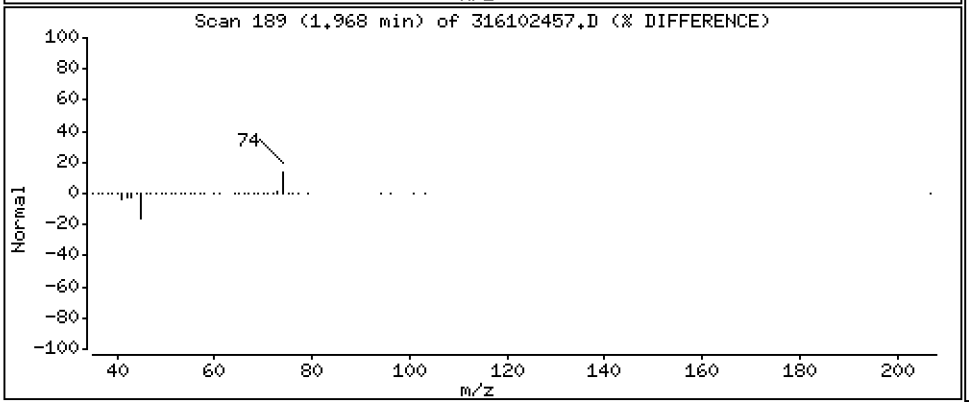
Column phase: DB-VRX Column diameter: 0.25

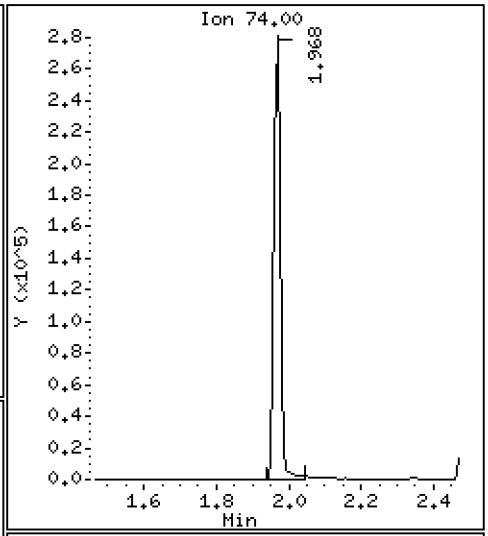
9 Ethyl Ether Concentration: 51.8611 ug/L

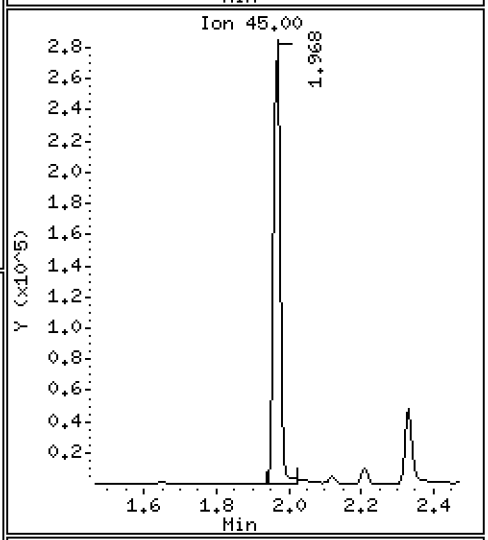


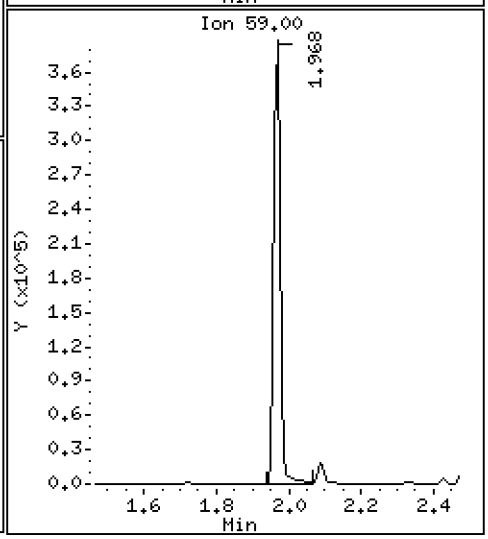












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 18

Date : 25-OCT-2016 00:52

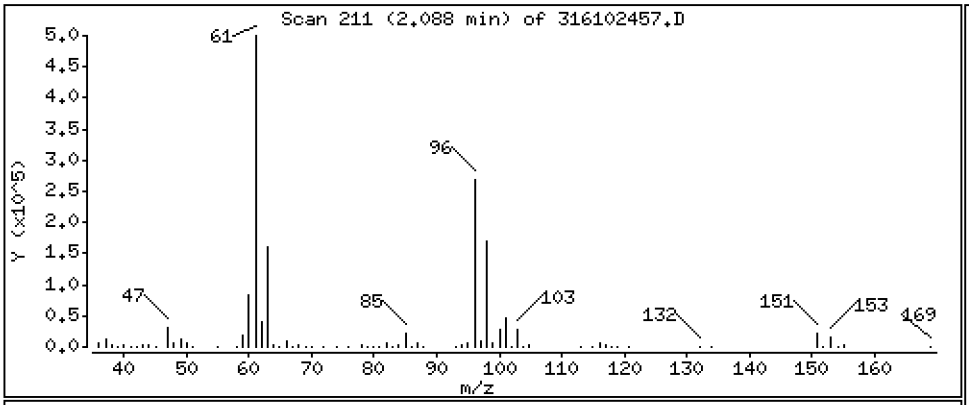
Client ID: Instrument: ms03.i

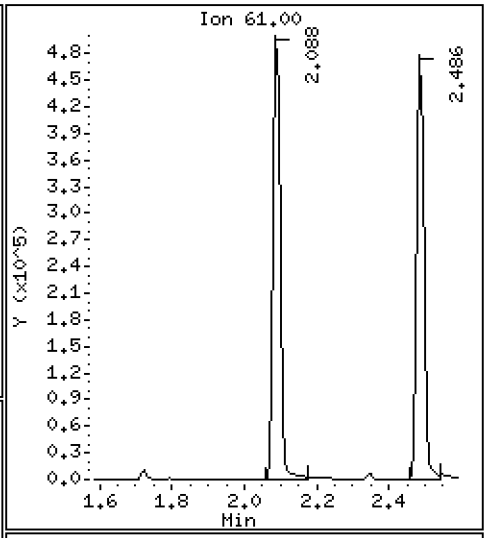
Sample Info: 1237;;1;1;4;;;

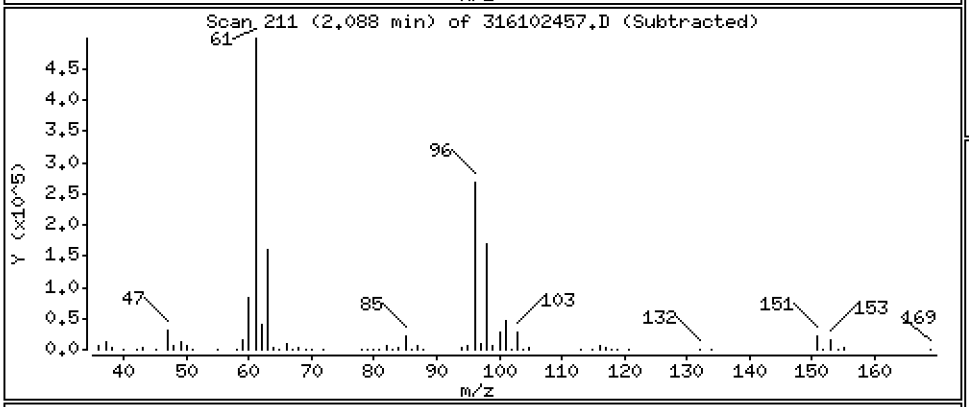
Purge Volume: 5.0 Operator: CJG

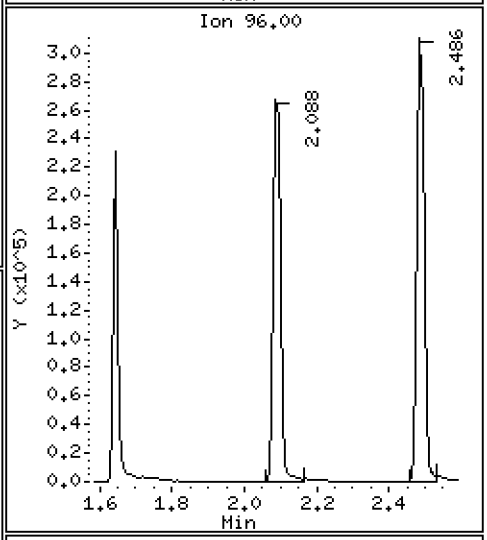
Column phase: DB-VRX Column diameter: 0.25

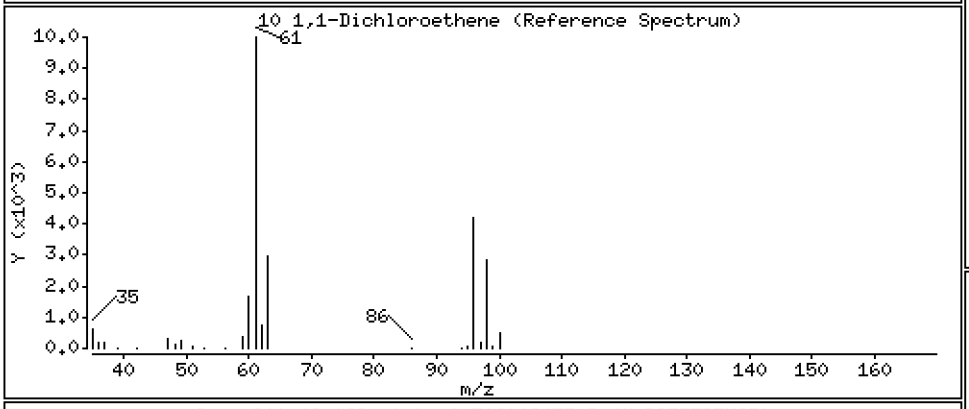
10 1,1-Dichloroethene Concentration: 49.5928 ug/L

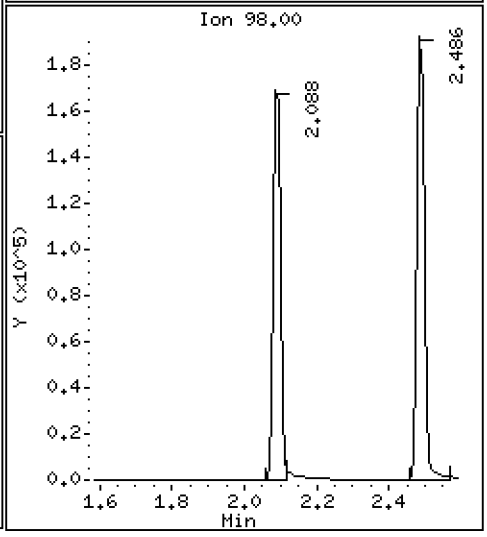


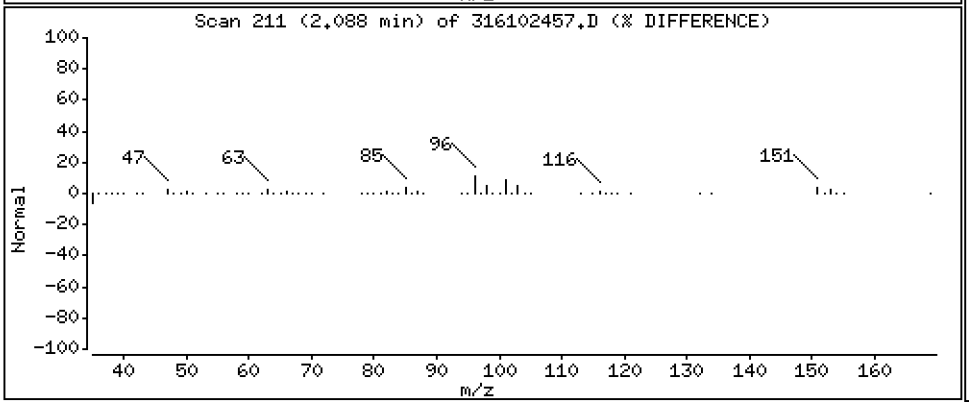












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 19

Date : 25-OCT-2016 00:52

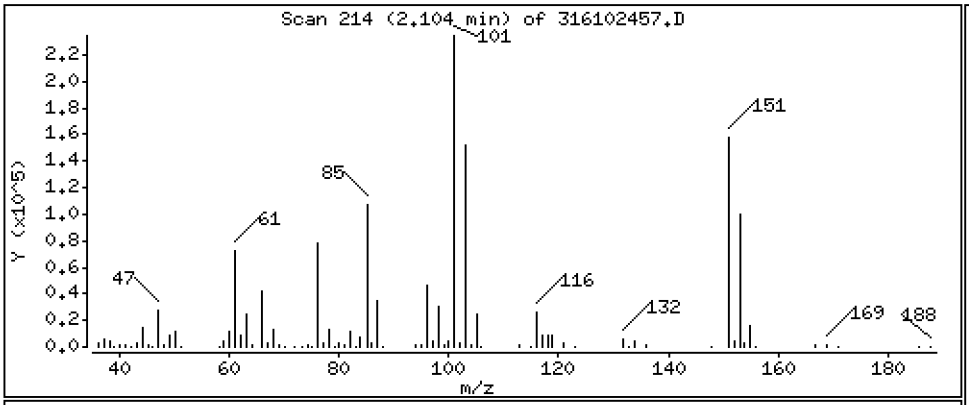
Client ID: Instrument: ms03.i

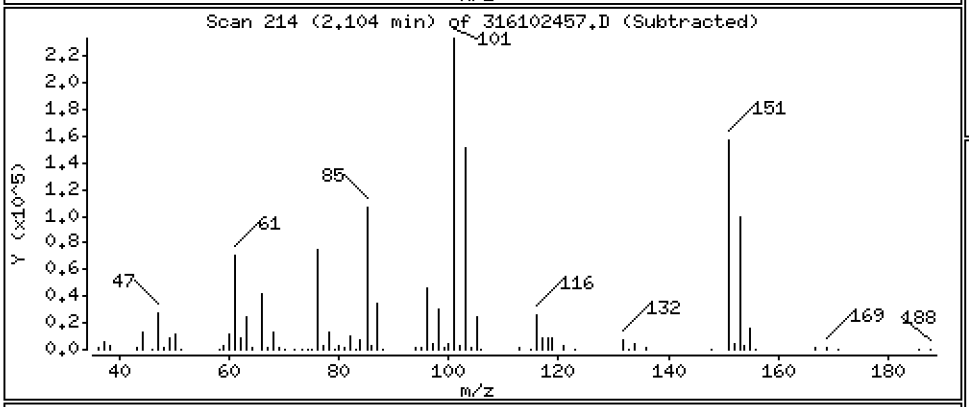
Sample Info: 1237;;1;1;4;;;

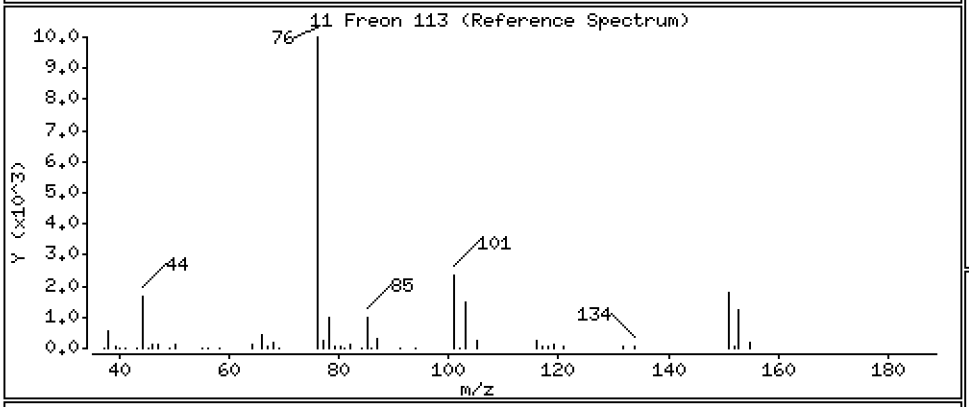
Purge Volume: 5.0 Operator: CJG

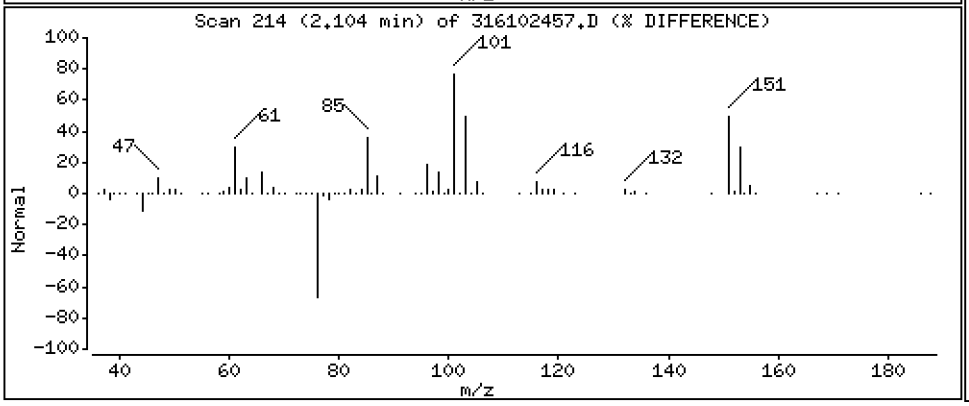
Column phase: DB-VRX Column diameter: 0.25

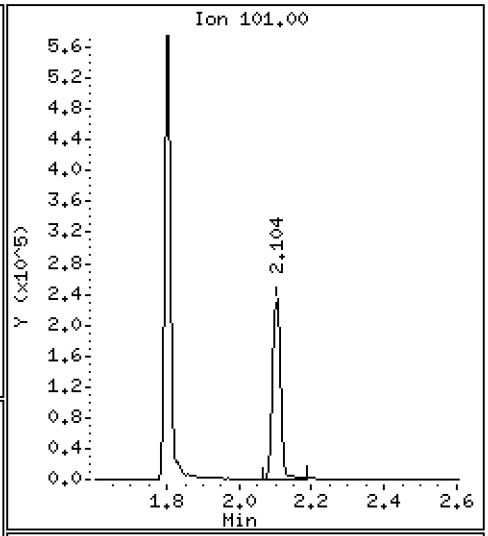
11 Freon 113 Concentration: 49.2609 ug/L

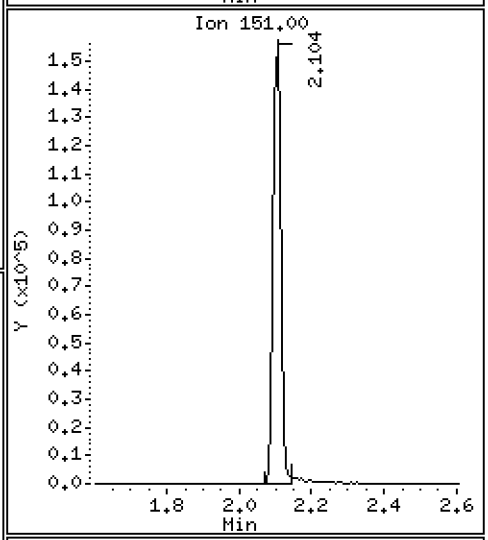


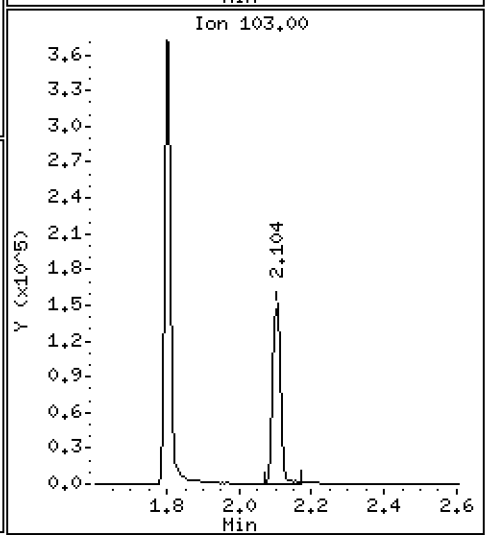












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 20

Date : 25-OCT-2016 00:52

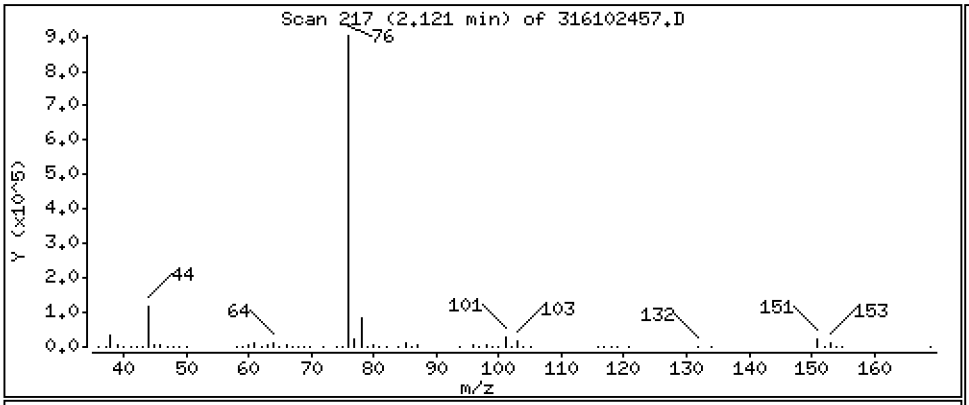
Client ID: Instrument: ms03.i

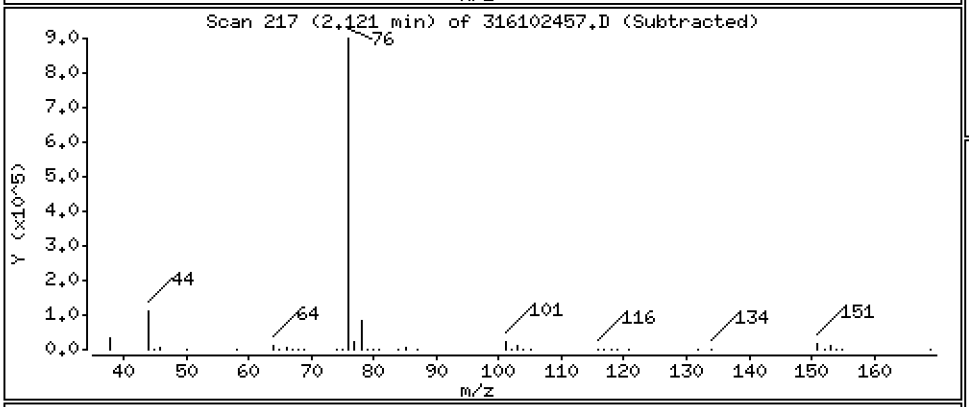
Sample Info: 1237;;1;1;4;;;

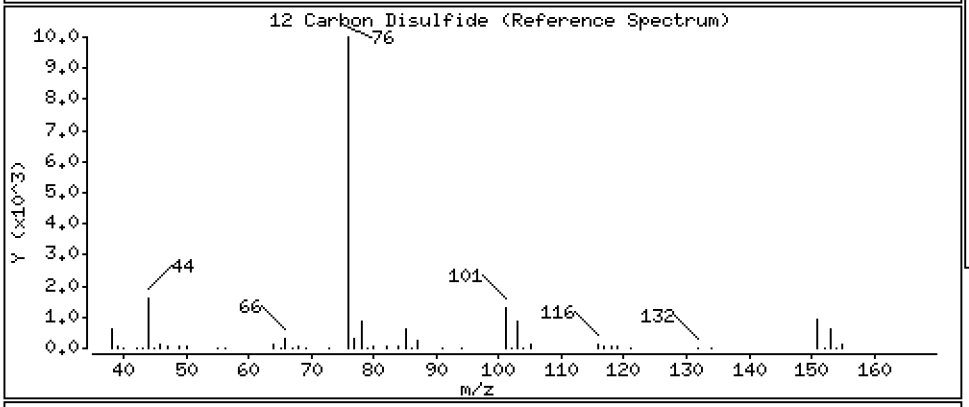
Purge Volume: 5.0 Operator: CJG

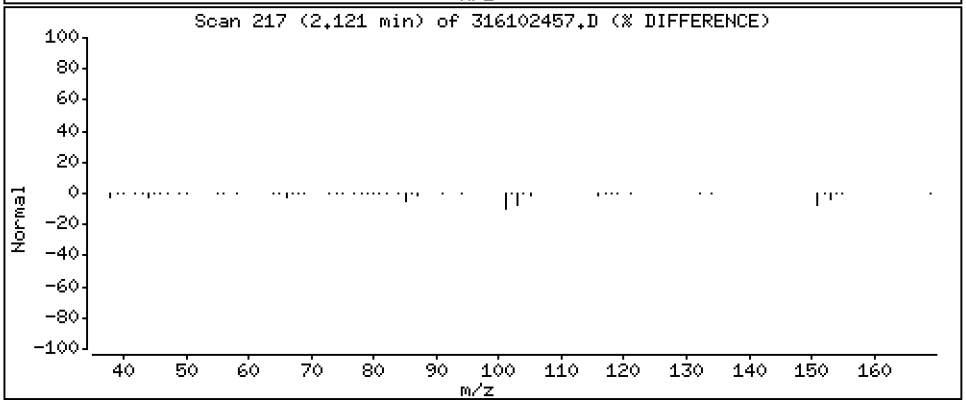
Column phase: DB-VRX Column diameter: 0.25

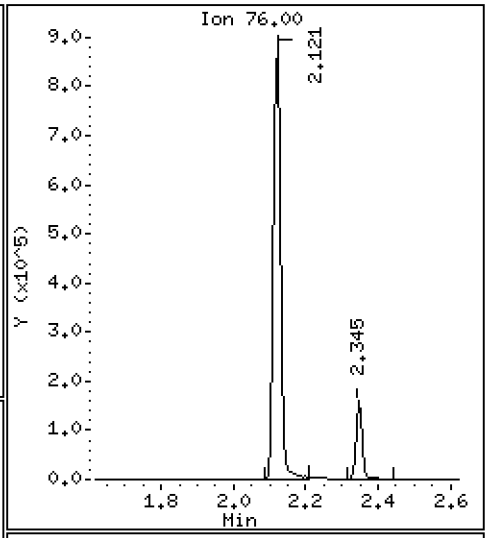
12 Carbon Disulfide Concentration: 48.4615 ug/L

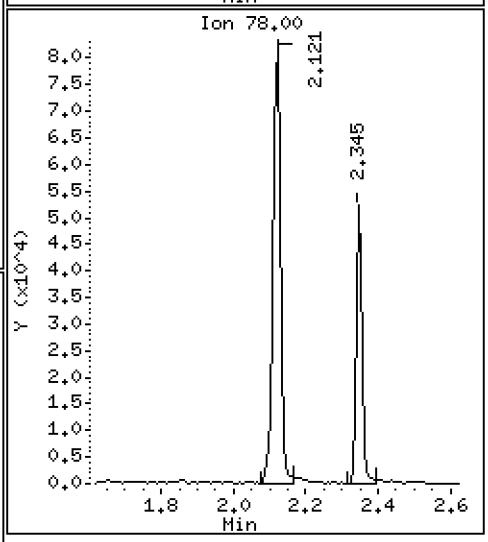












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 21

Date : 25-OCT-2016 00:52

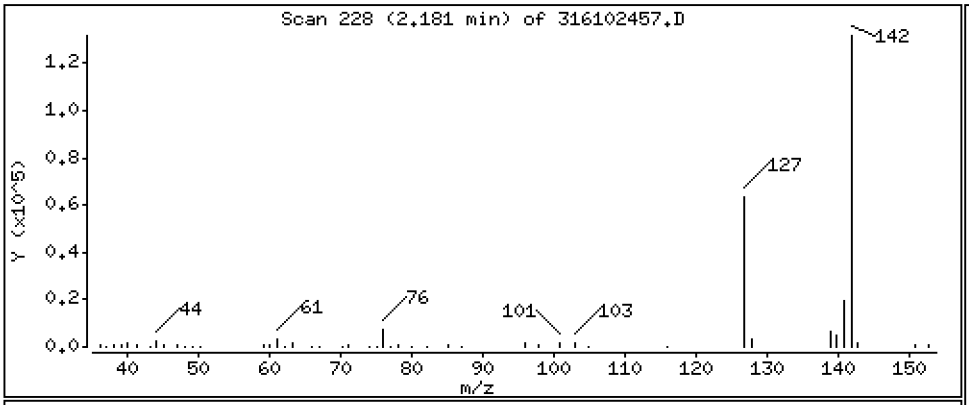
Client ID: Instrument: ms03.i

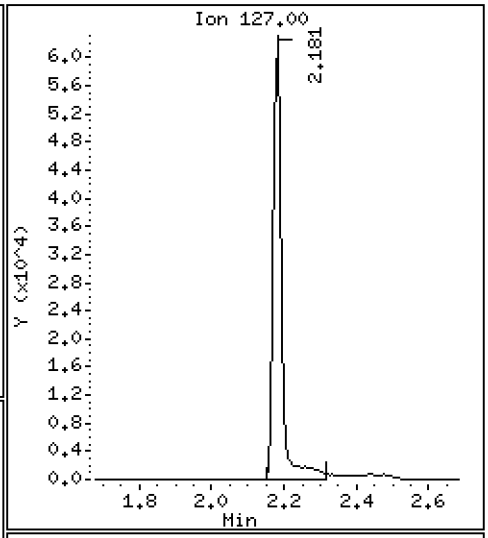
Sample Info: 1237;;1;1;4;;;

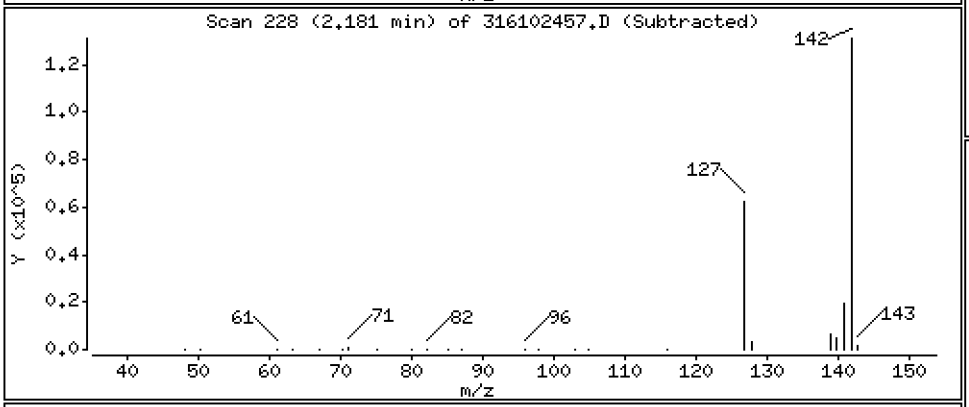
Purge Volume: 5.0 Operator: CJG

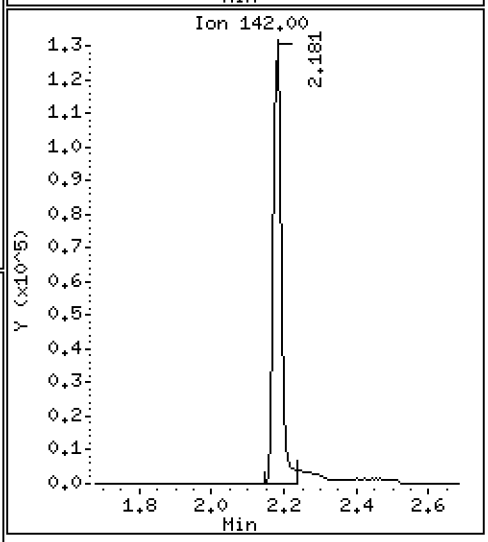
Column phase: DB-VRX Column diameter: 0.25

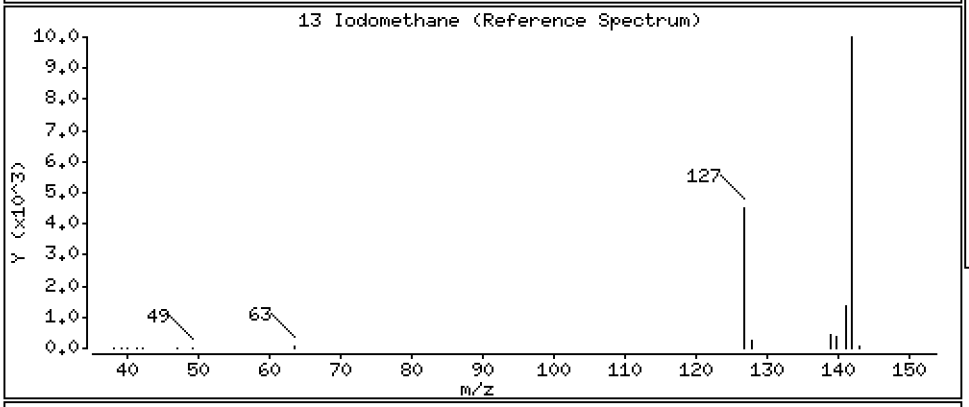
13 Iodomethane Concentration: 44.8691 ug/L

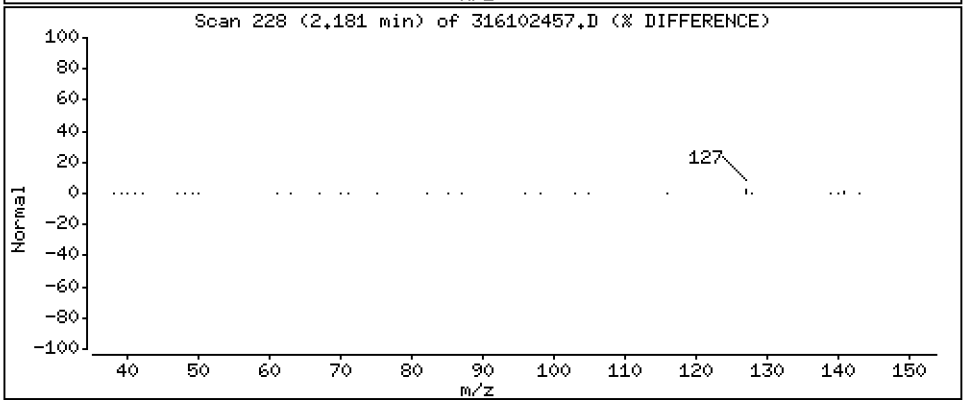












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 22

Date : 25-OCT-2016 00:52

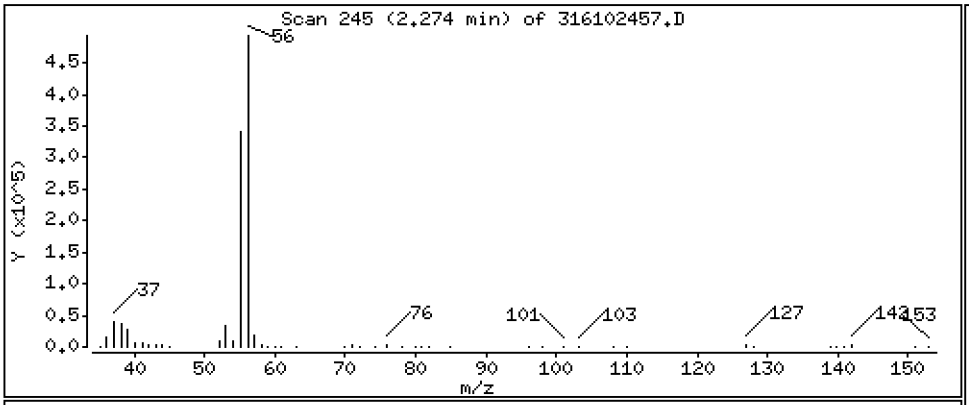
Client ID: Instrument: ms03.i

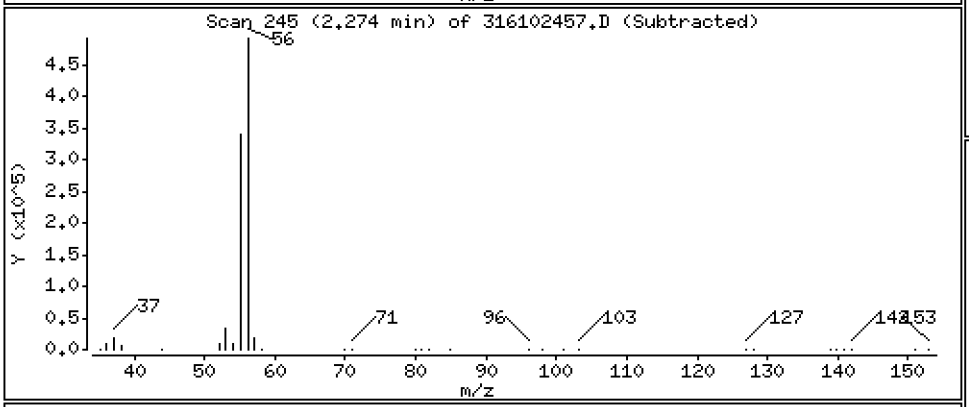
Sample Info: 1237;;1;1;4;;;

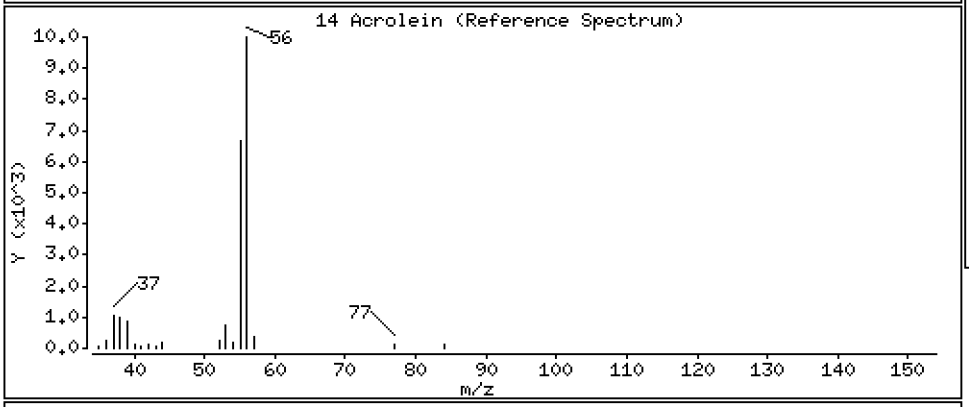
Purge Volume: 5.0 Operator: CJG

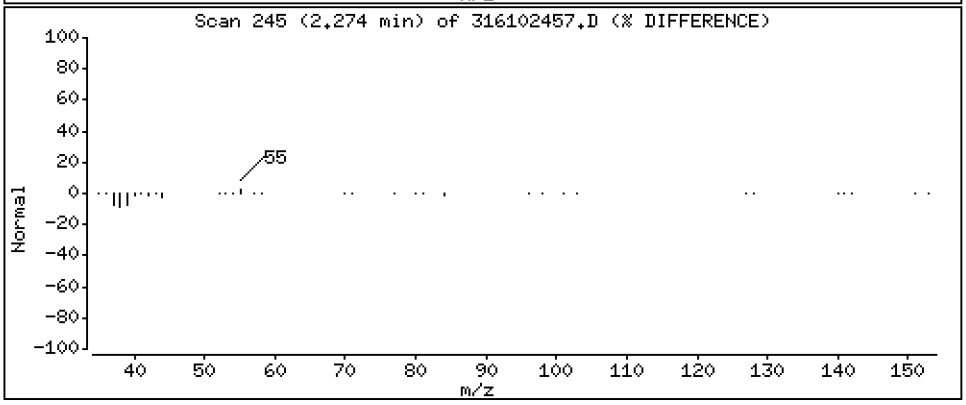
Column phase: DB-VRX Column diameter: 0.25

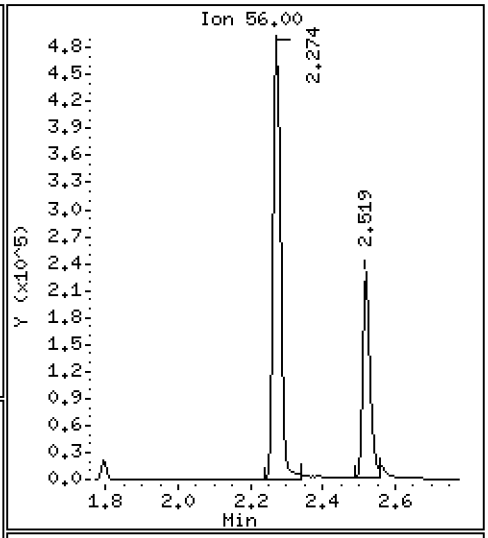
14 Acrolein Concentration: 503.843 ug/L

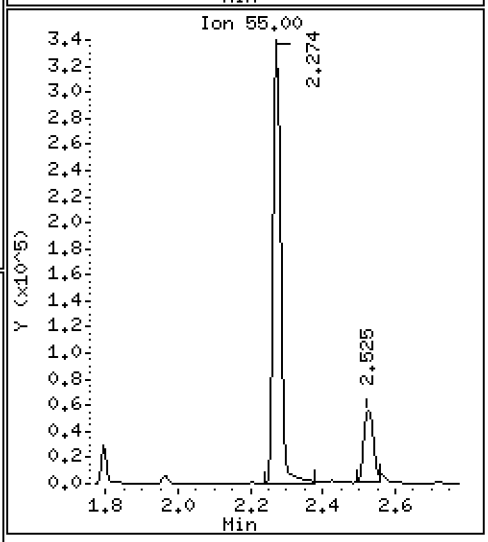












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 23

Date : 25-OCT-2016 00:52

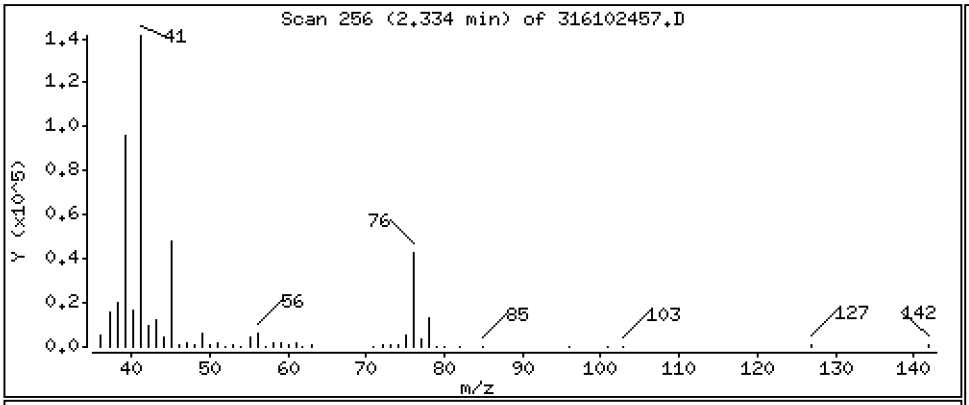
Client ID: Instrument: ms03.i

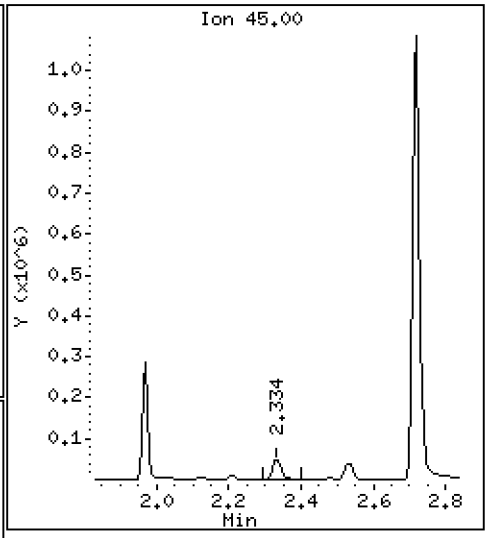
Sample Info: 1237;;1;1;4;;;

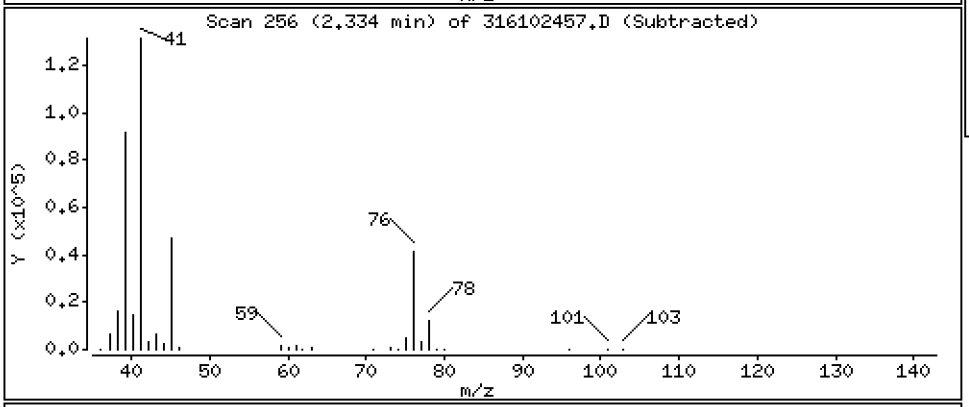
Purge Volume: 5.0 Operator: CJG

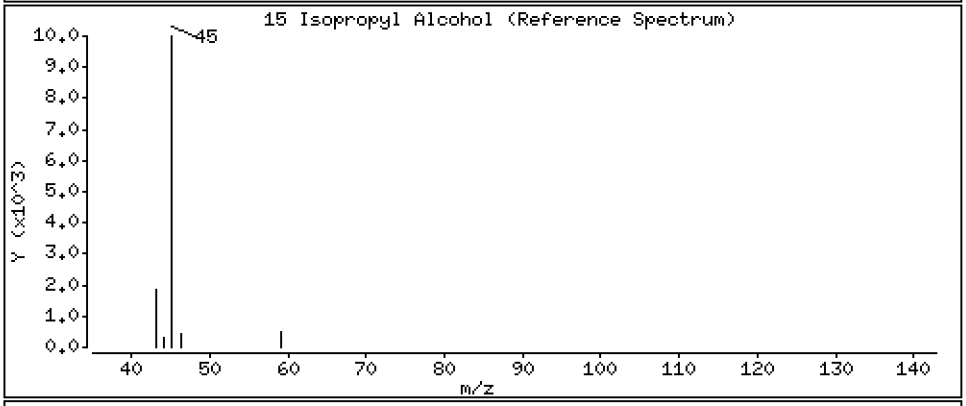
Column phase: DB-VRX Column diameter: 0.25

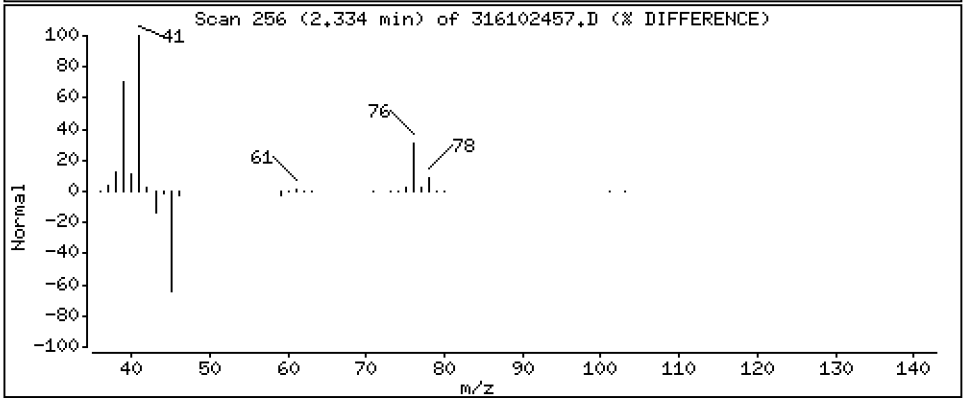
15 Isopropyl Alcohol Concentration: 262.088 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 24

Date : 25-OCT-2016 00:52

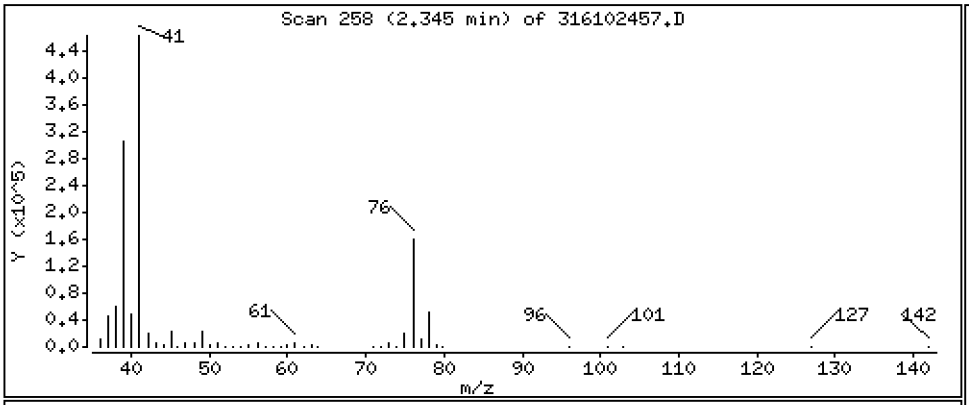
Client ID: Instrument: ms03.i

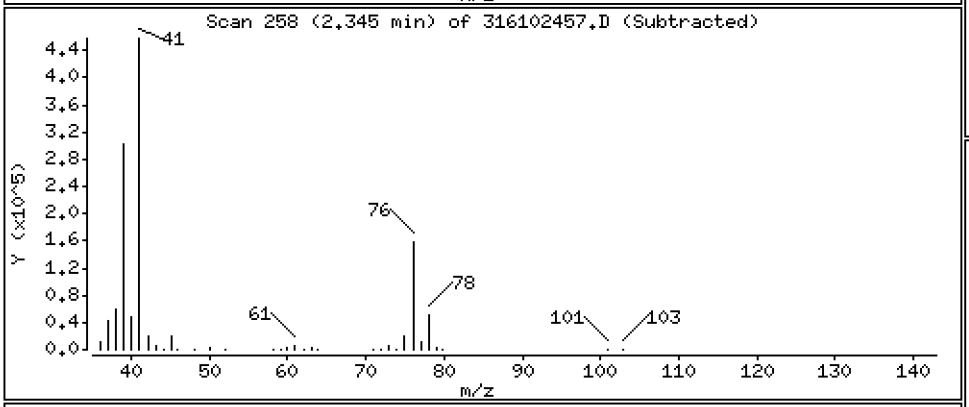
Sample Info: 1237;;1;1;4;;;

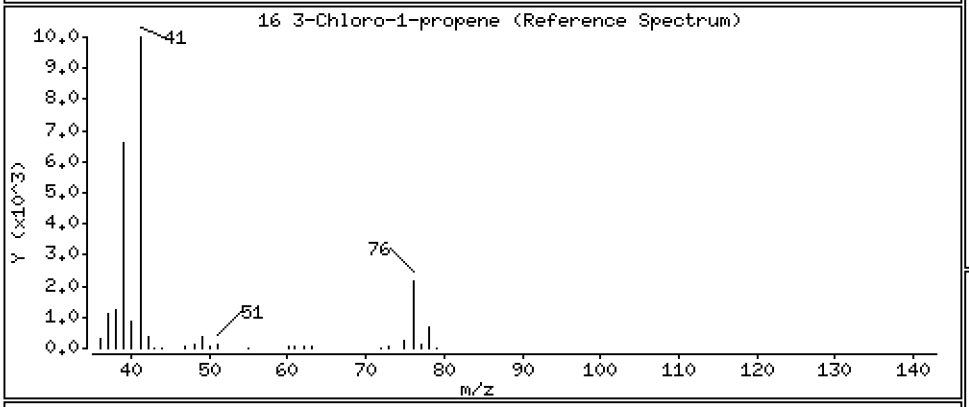
Purge Volume: 5.0 Operator: CJG

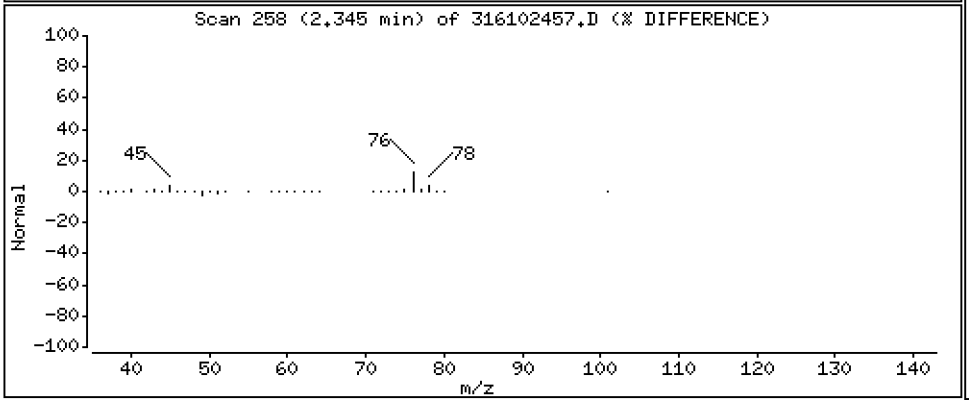
Column phase: DB-VRX Column diameter: 0.25

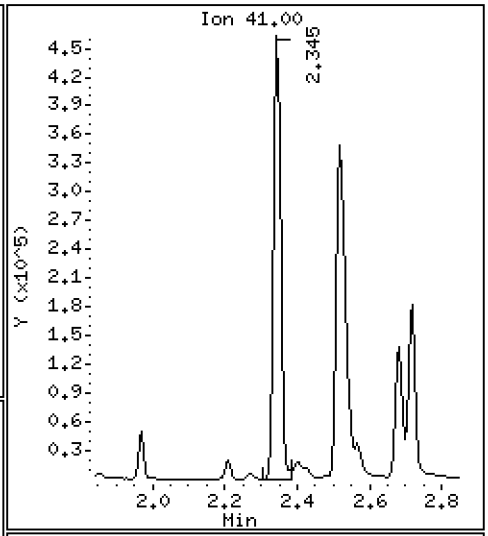
16 3-Chloro-1-propene Concentration: 48.5297 ug/L

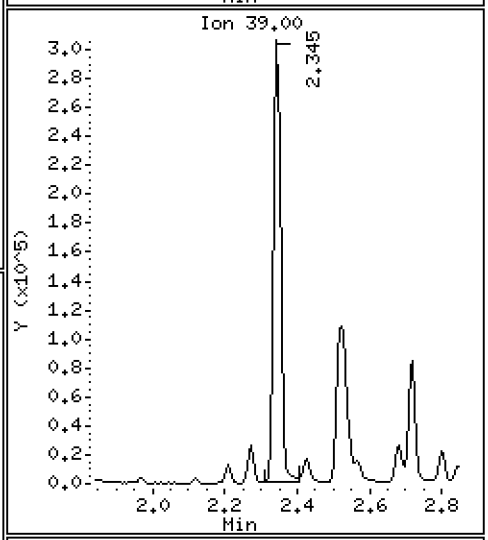


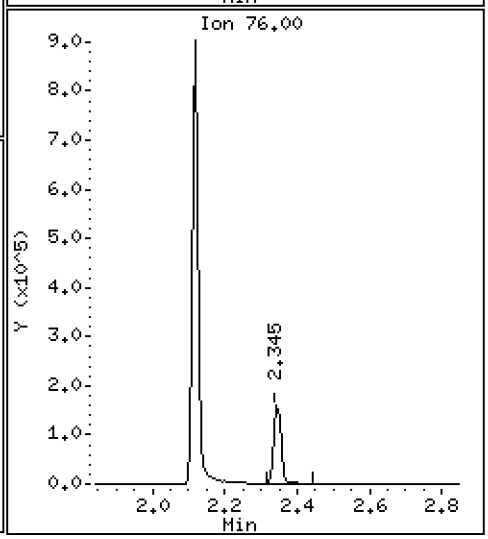












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 25

Date : 25-OCT-2016 00:52

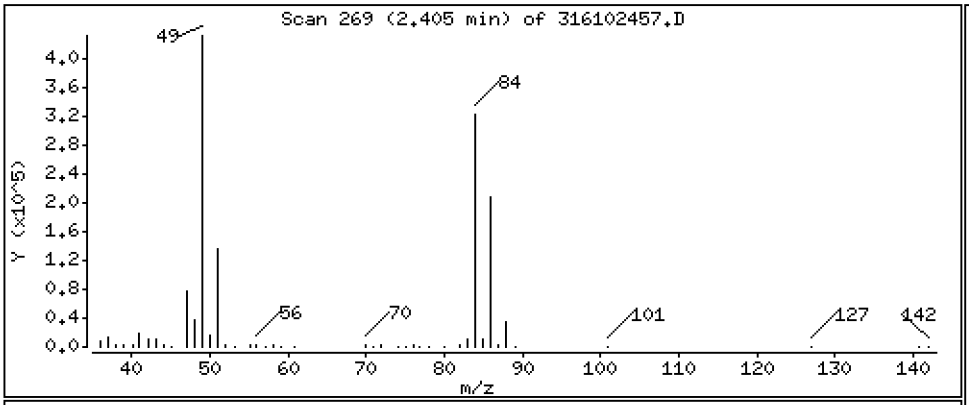
Client ID: Instrument: ms03.i

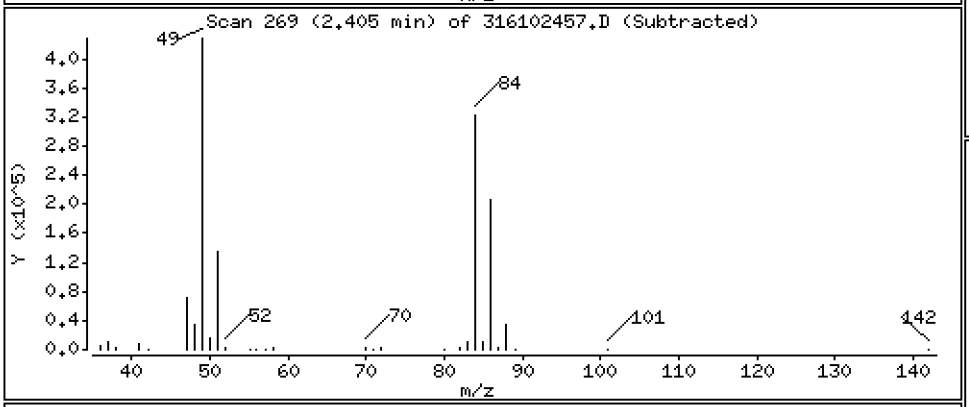
Sample Info: 1237;;1;1;4;;;

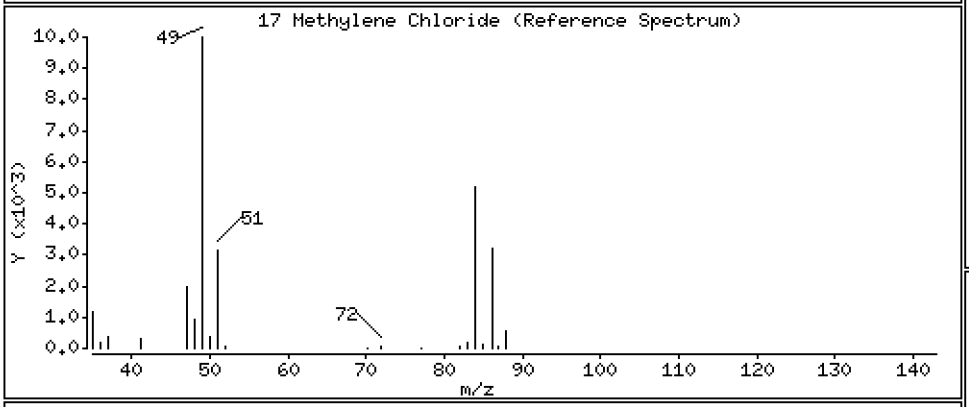
Purge Volume: 5.0 Operator: CJG

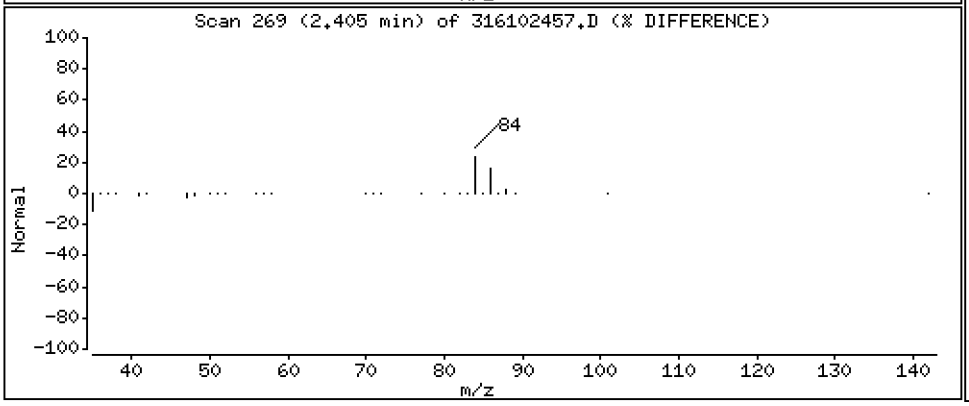
Column phase: DB-VRX Column diameter: 0.25

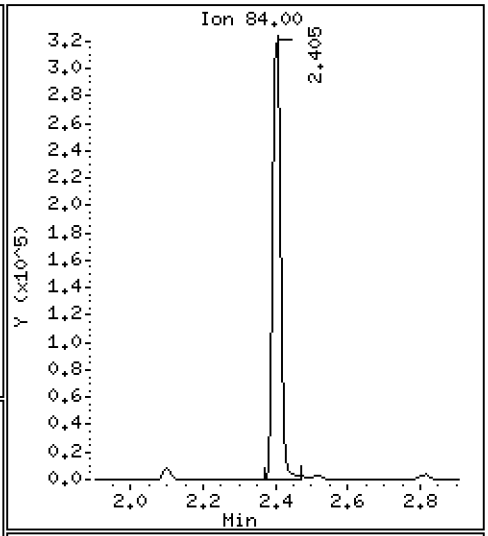
17 Methylene Chloride Concentration: 49.7290 ug/L

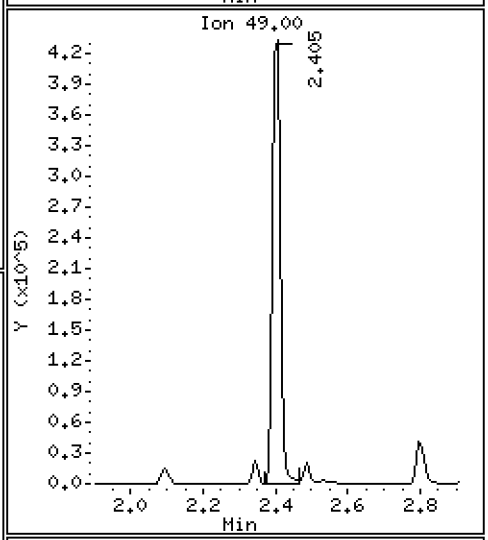


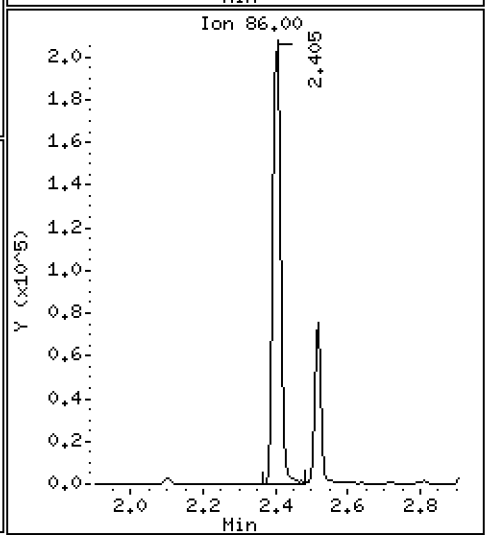












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 26

Date : 25-OCT-2016 00:52

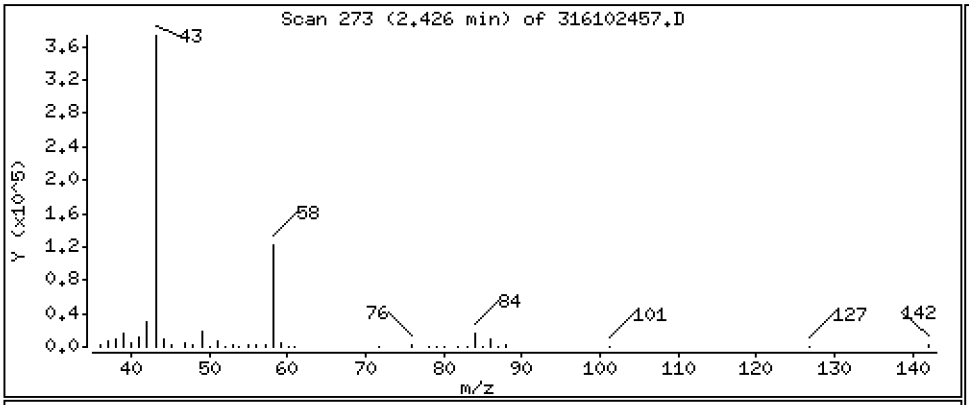
Client ID: Instrument: ms03.i

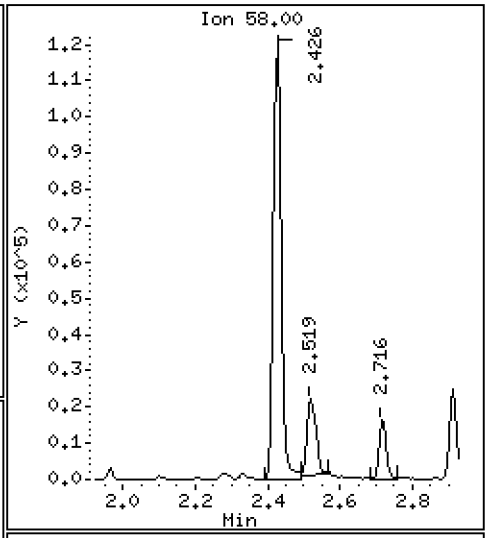
Sample Info: 1237;;1;1;4;;;

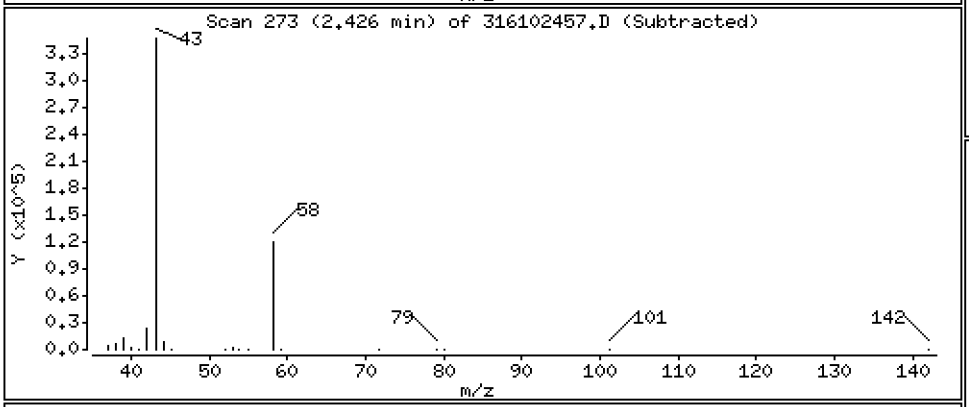
Purge Volume: 5.0 Operator: CJG

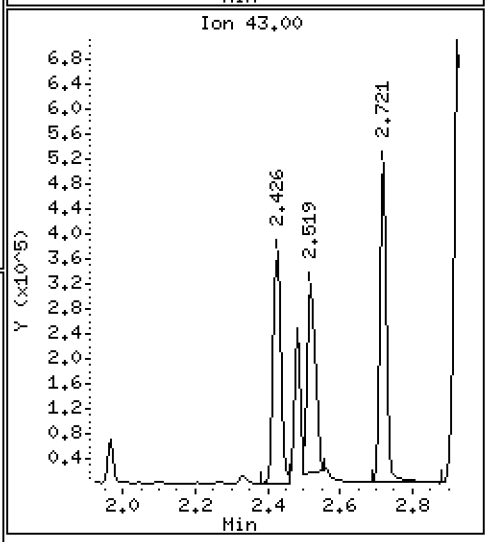
Column phase: DB-VRX Column diameter: 0.25

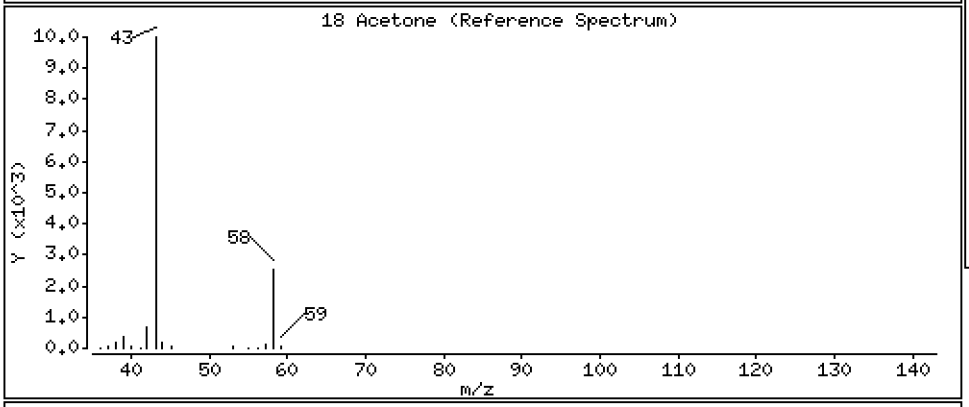
18 Acetone Concentration: 259.021 ug/L

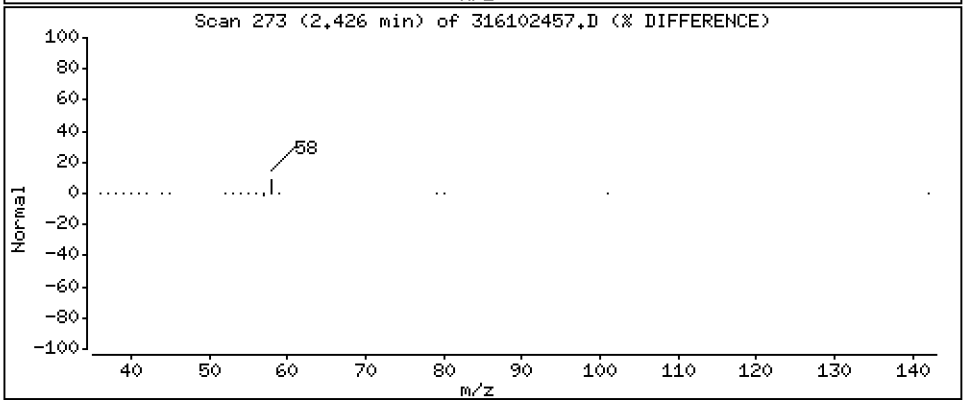












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 27

Date : 25-OCT-2016 00:52

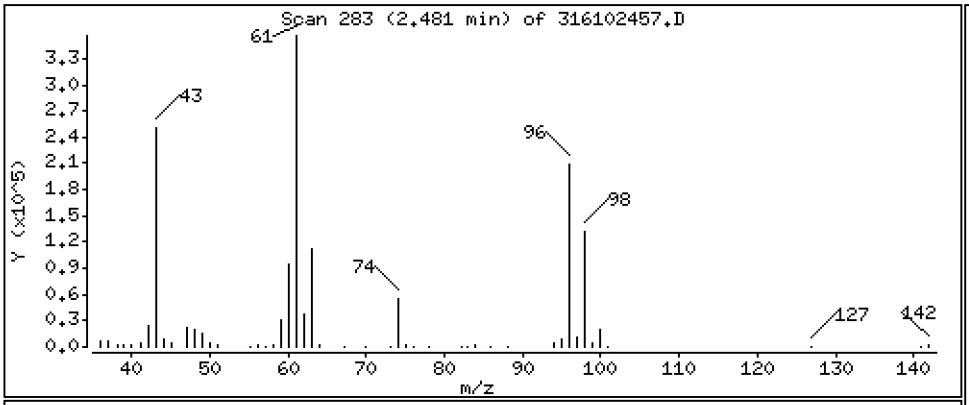
Client ID: Instrument: ms03.i

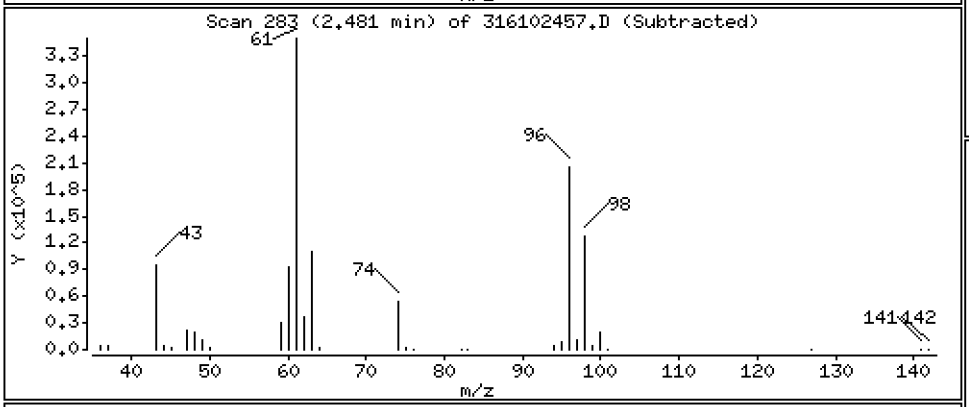
Sample Info: 1237;;1;1;4;;;

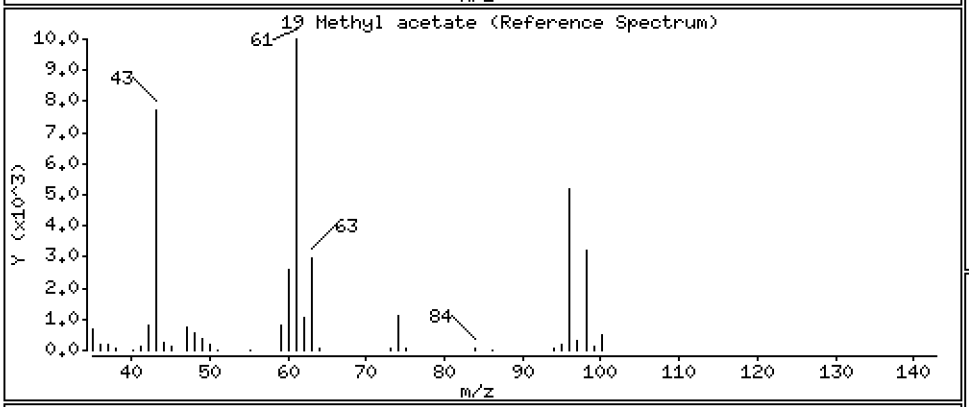
Purge Volume: 5.0 Operator: CJG

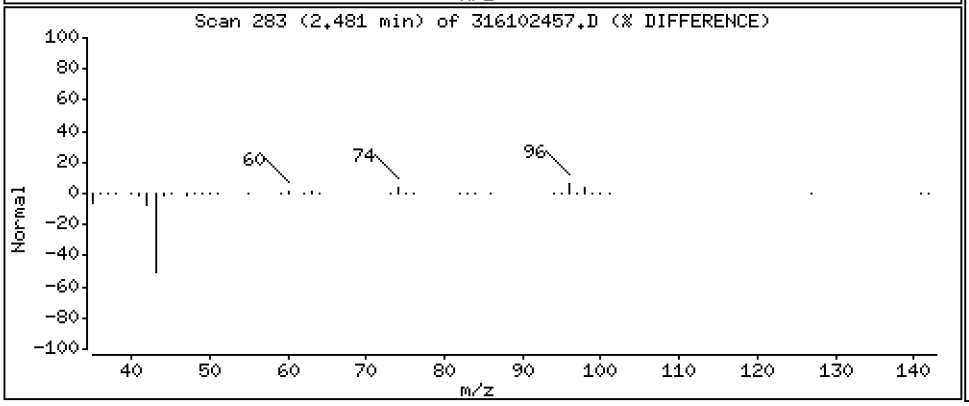
Column phase: DB-VRX Column diameter: 0.25

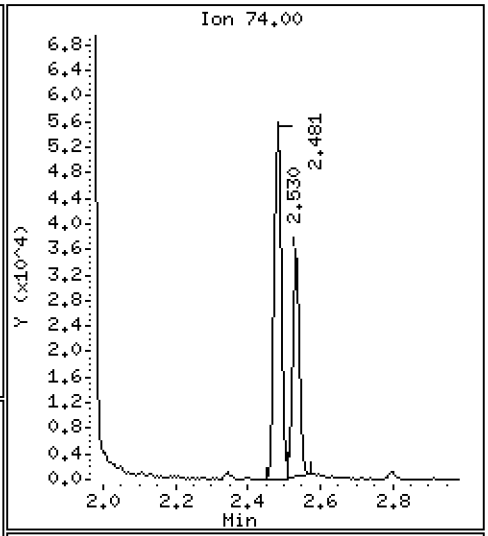
19 Methyl acetate Concentration: 51.5206 ug/L

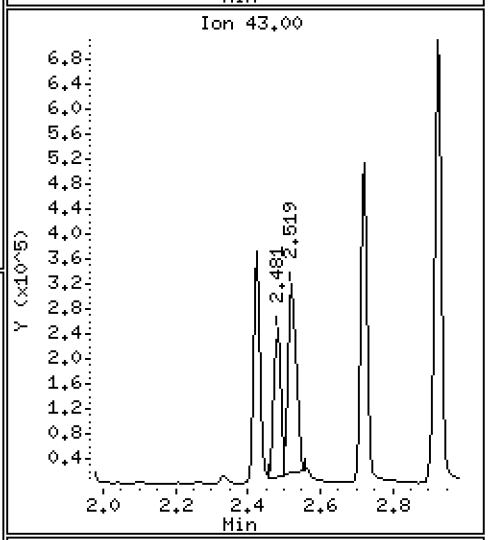


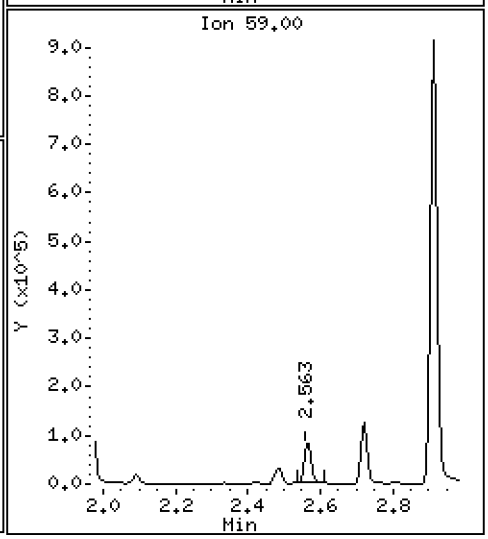












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 28

Date : 25-OCT-2016 00:52

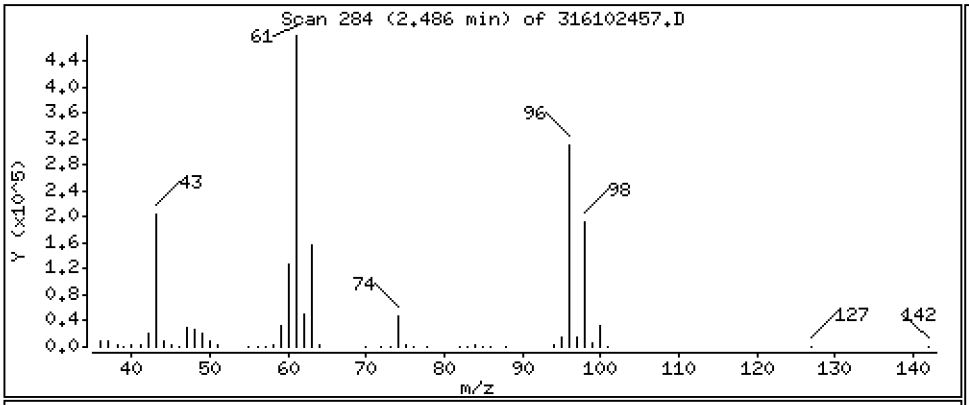
Client ID: Instrument: ms03.i

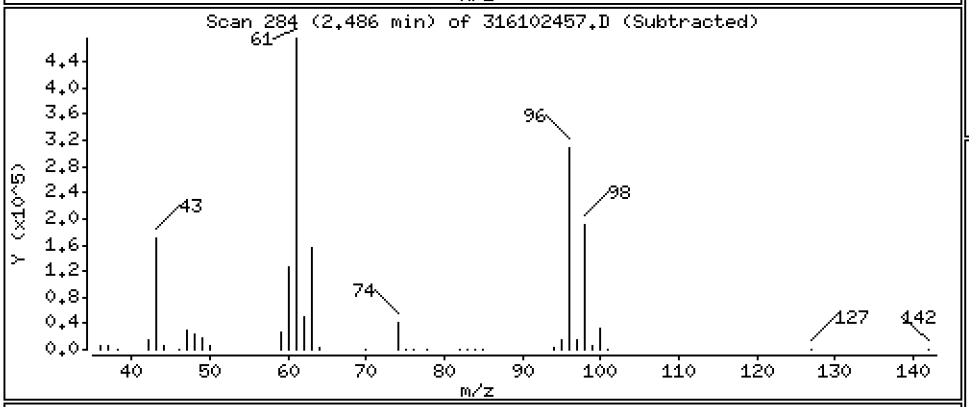
Sample Info: 1237;;1;1;4;;;

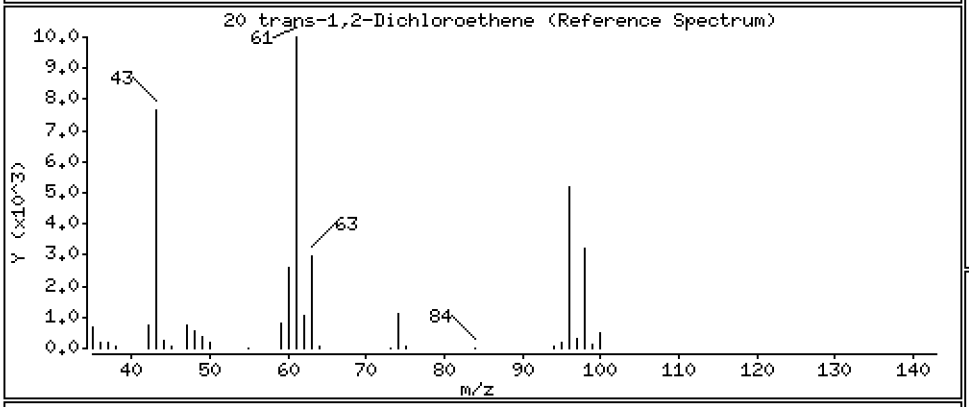
Purge Volume: 5.0 Operator: CJG

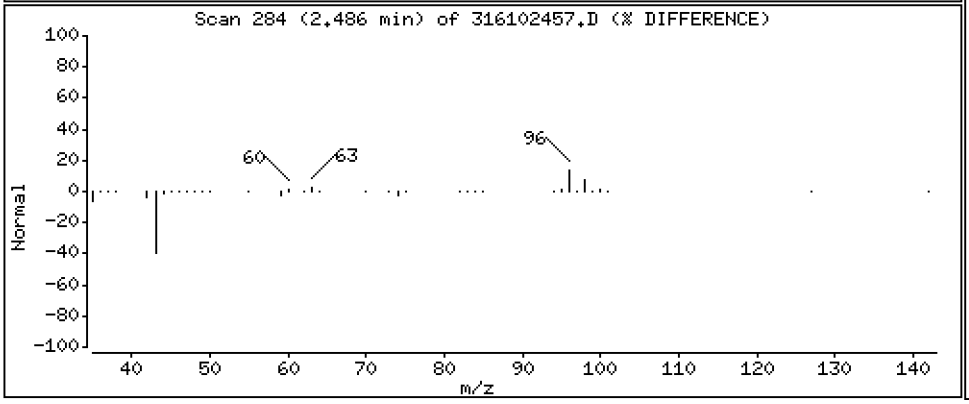
Column phase: DB-VRX Column diameter: 0.25

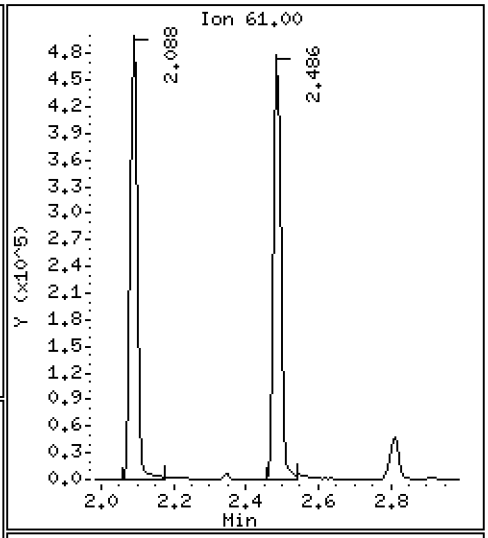
20 trans-1,2-Dichloroethene Concentration: 48.9962 ug/L

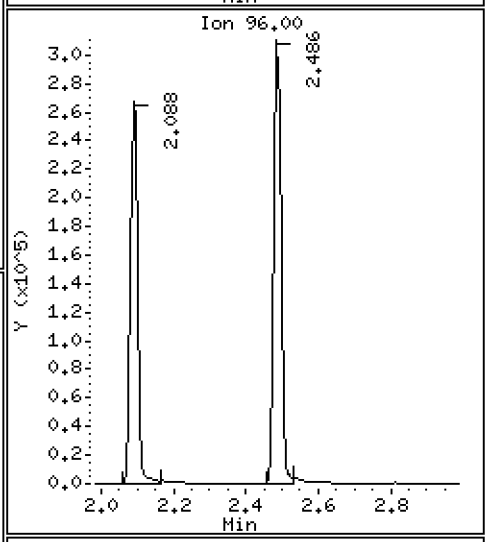


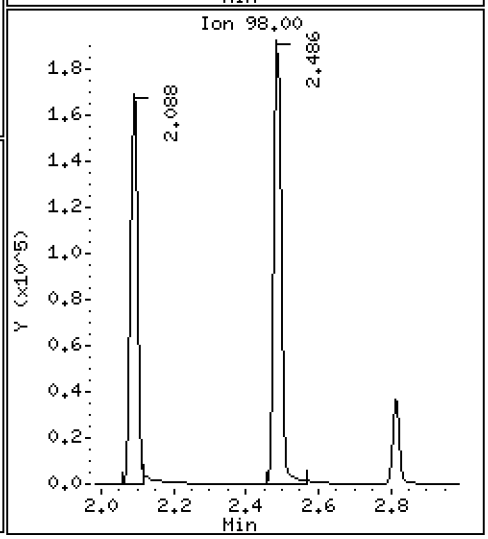












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 29

Date : 25-OCT-2016 00:52

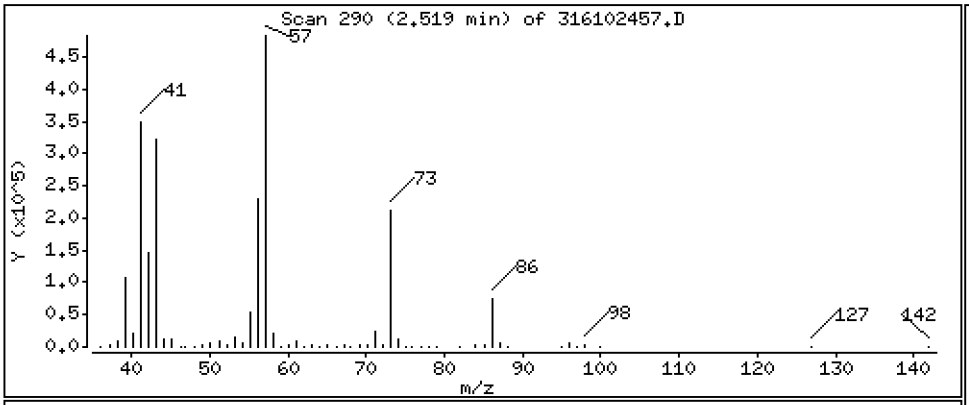
Client ID: Instrument: ms03.i

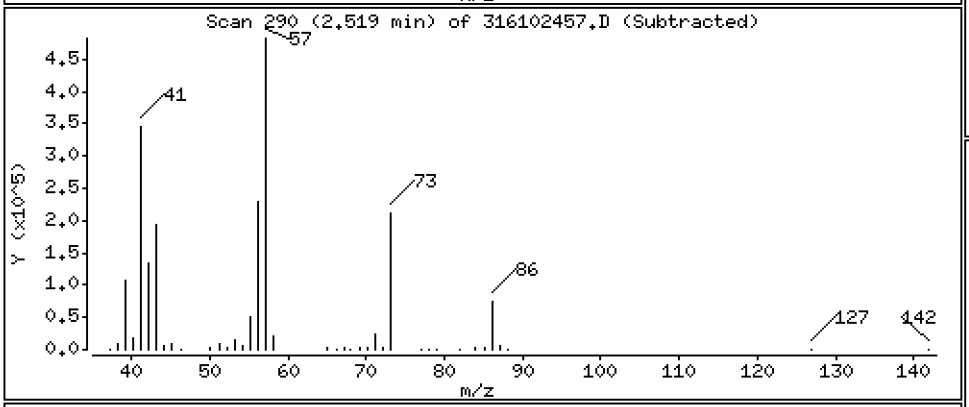
Sample Info: 1237;;1;1;4;;;

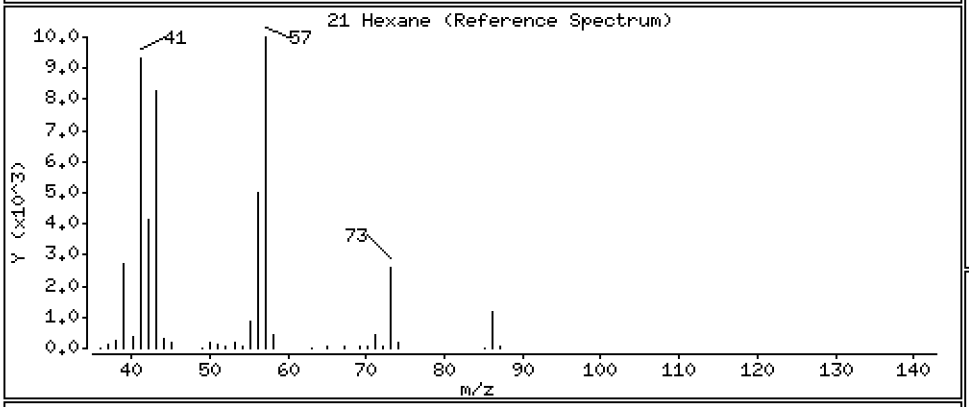
Purge Volume: 5.0 Operator: CJG

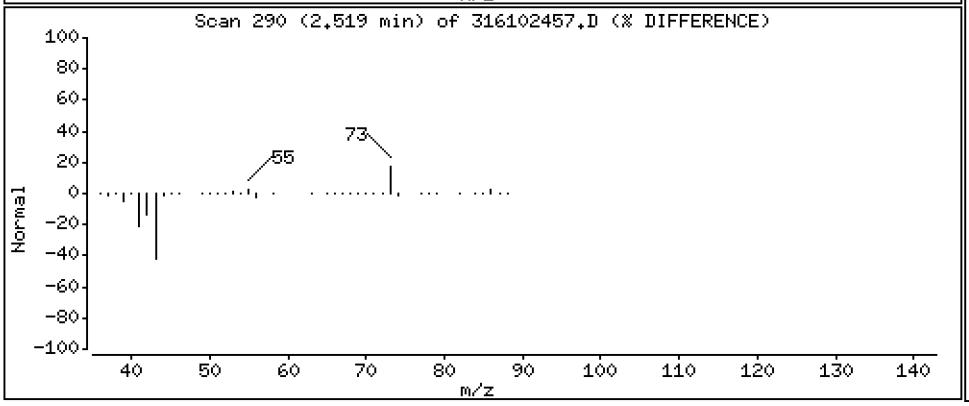
Column phase: DB-VRX Column diameter: 0.25

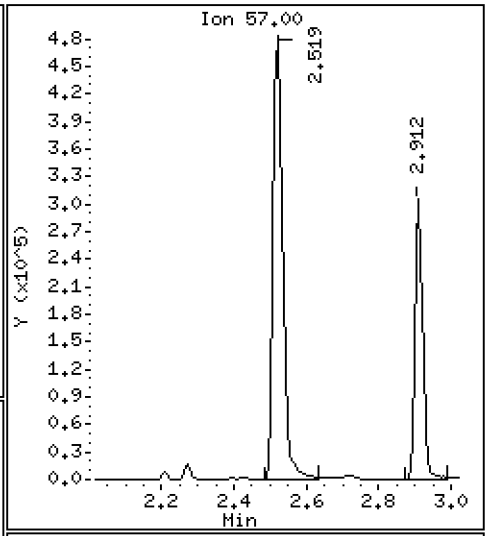
21 Hexane Concentration: 48.6868 ug/L

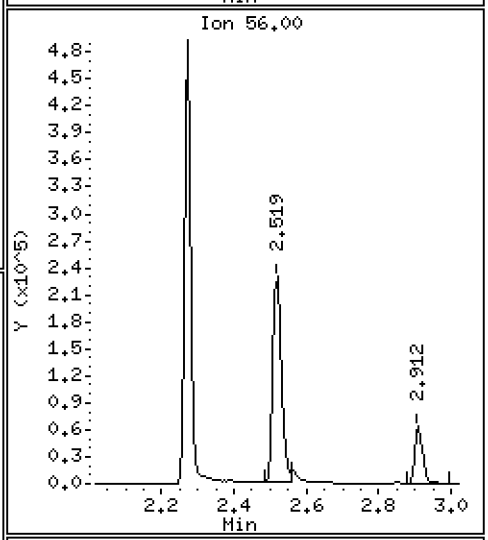


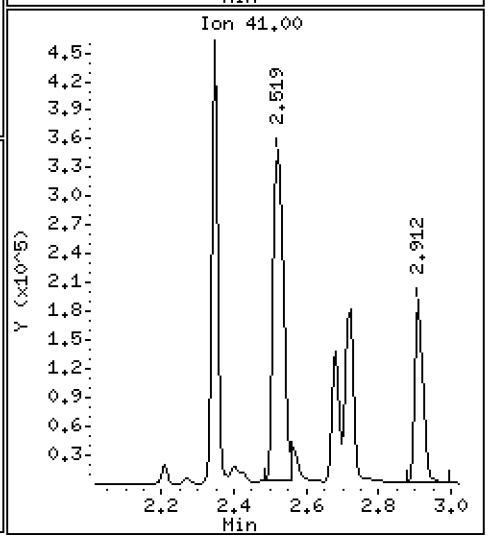












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 30

Date : 25-OCT-2016 00:52

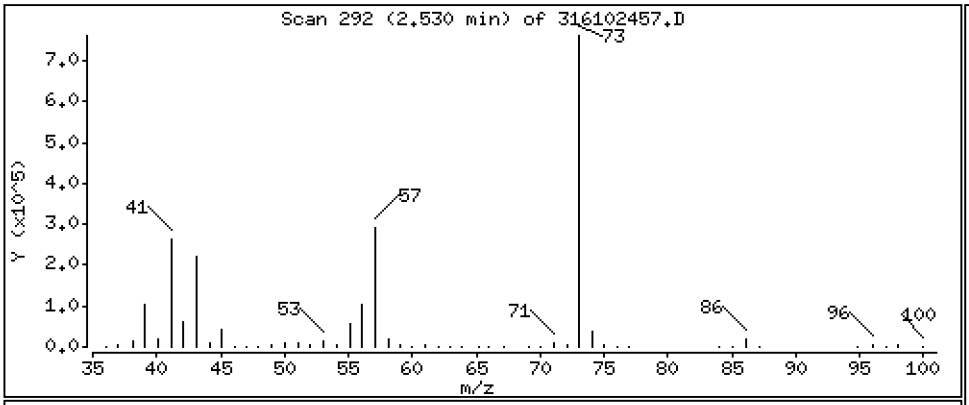
Client ID: Instrument: ms03.i

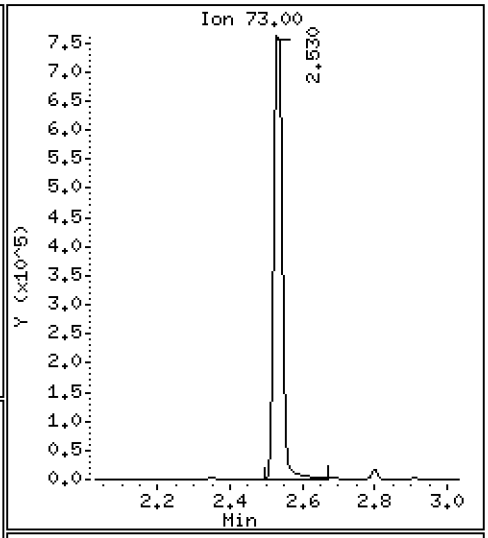
Sample Info: 1237;;1;1;4;;;

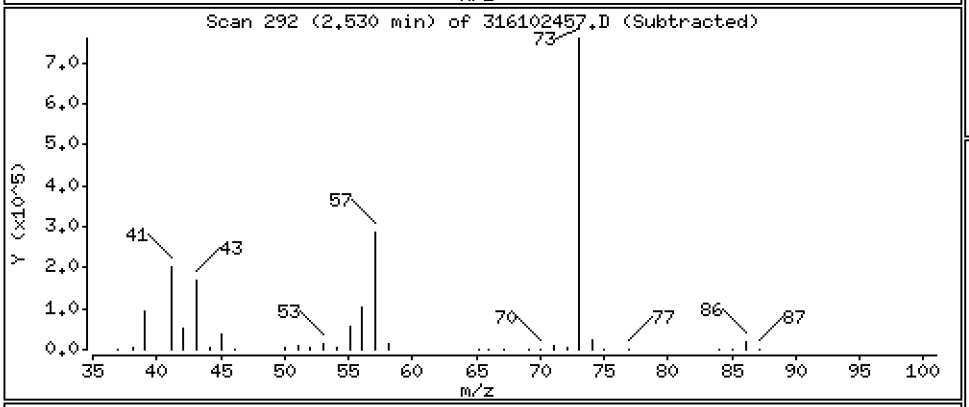
Purge Volume: 5.0 Operator: CJG

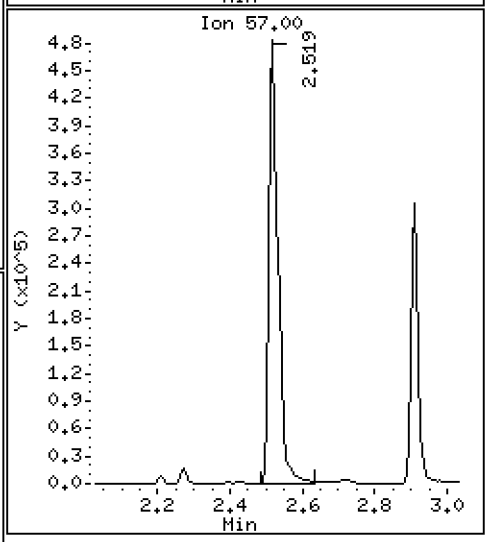
Column phase: DB-VRX Column diameter: 0.25

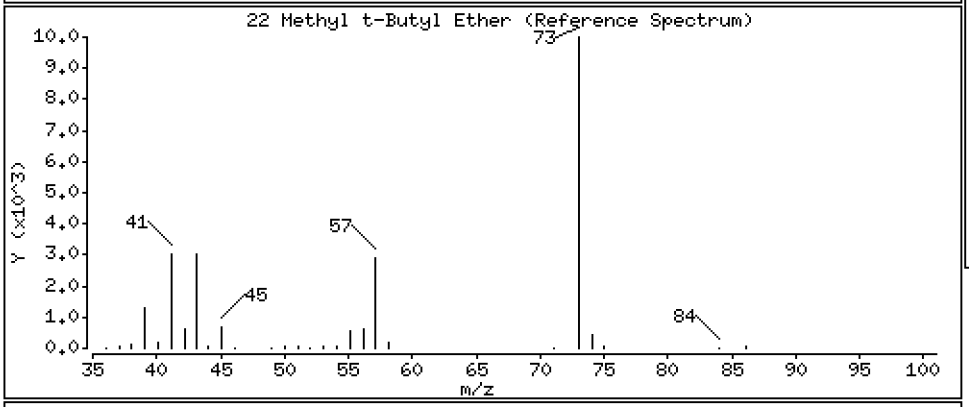
22 Methyl t-Butyl Ether Concentration: 50.2513 ug/L

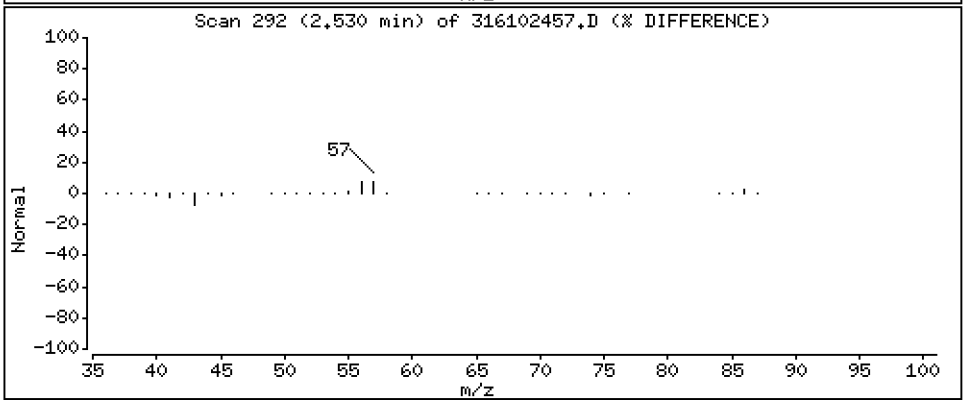












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 31

Date : 25-OCT-2016 00:52

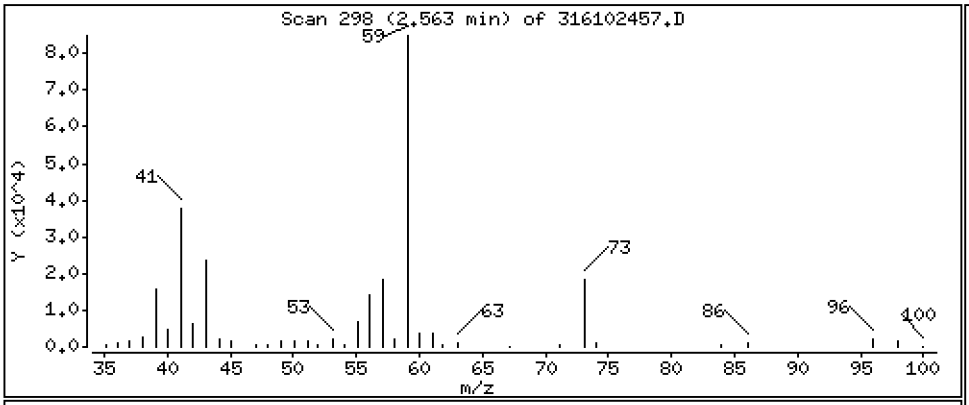
Client ID: Instrument: ms03.i

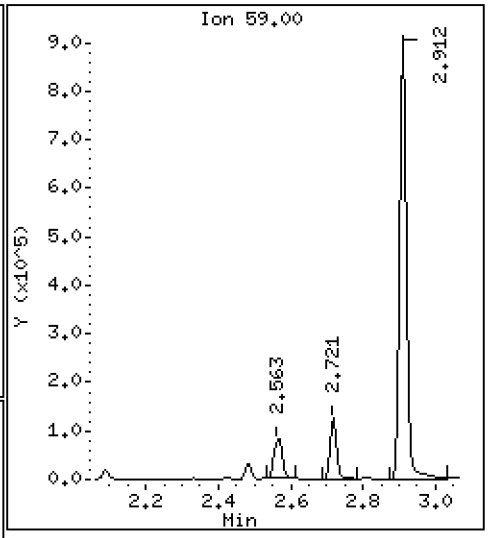
Sample Info: 1237;;1;1;4;;;

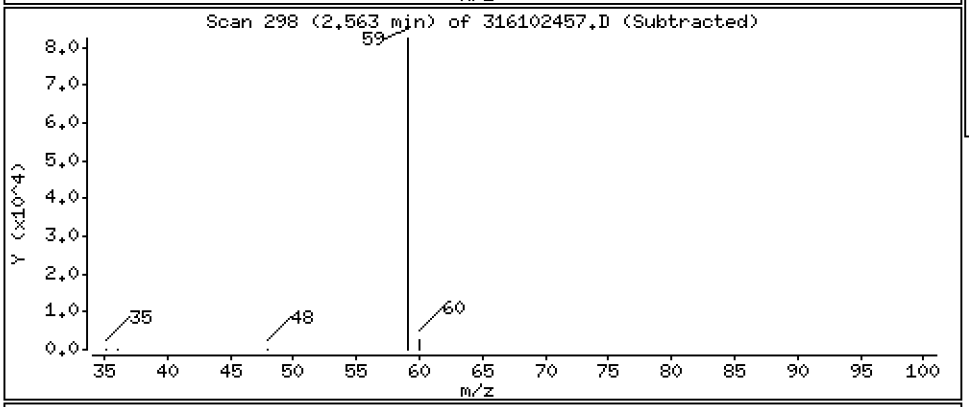
Purge Volume: 5.0 Operator: CJG

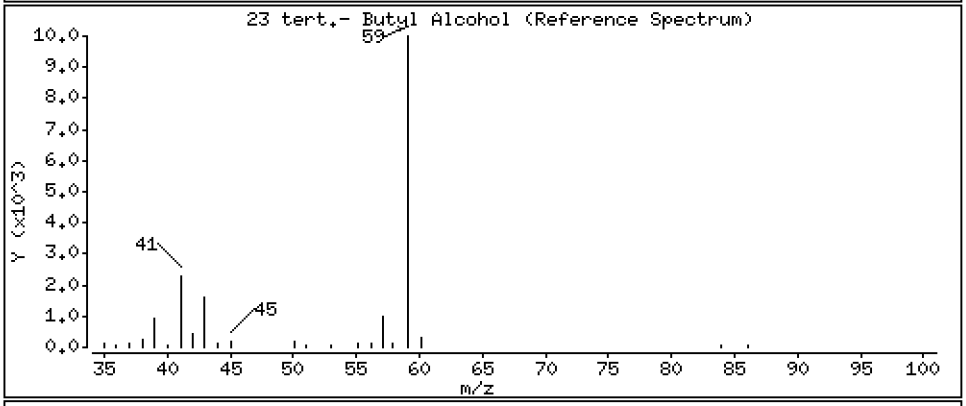
Column phase: DB-VRX Column diameter: 0.25

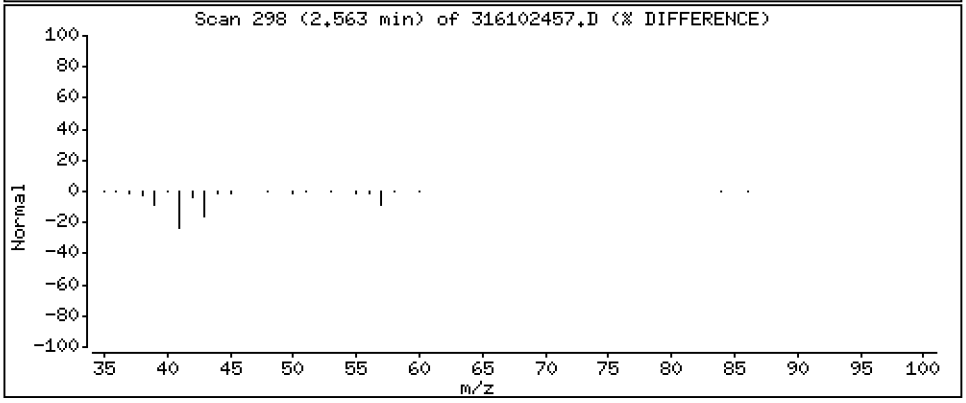
23 tert.- Butyl Alcohol Concentration: 249.972 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 32

Date : 25-OCT-2016 00:52

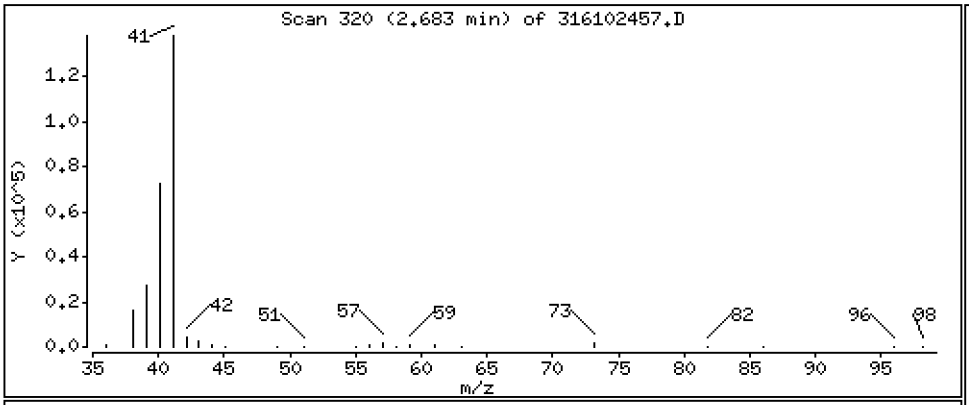
Client ID: Instrument: ms03.i

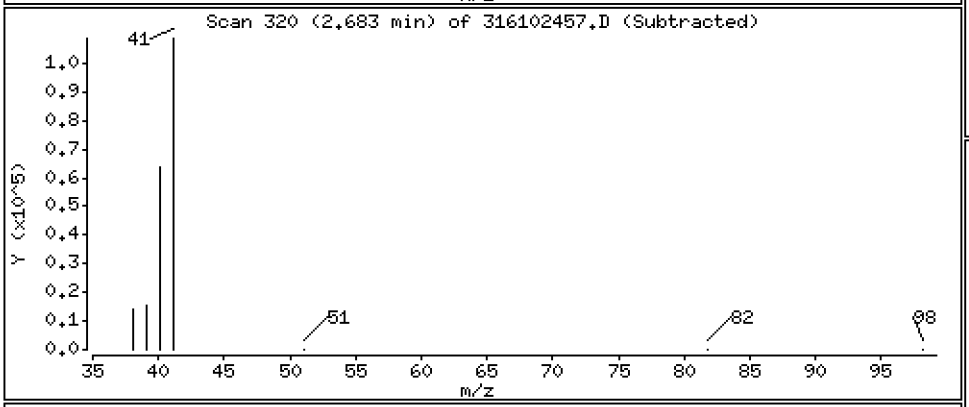
Sample Info: 1237;;1;1;4;;;

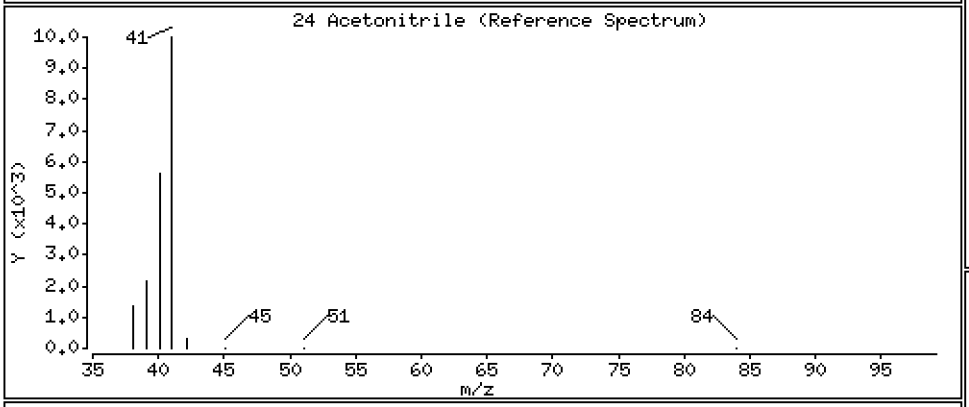
Purge Volume: 5.0 Operator: CJG

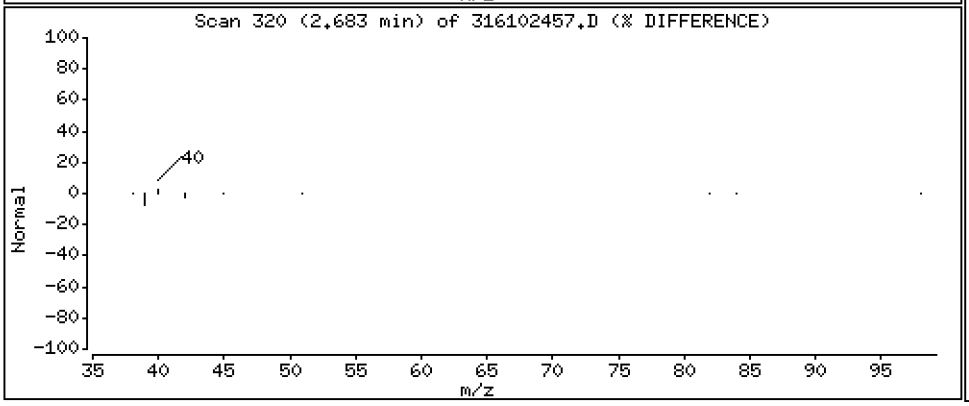
Column phase: DB-VRX Column diameter: 0.25

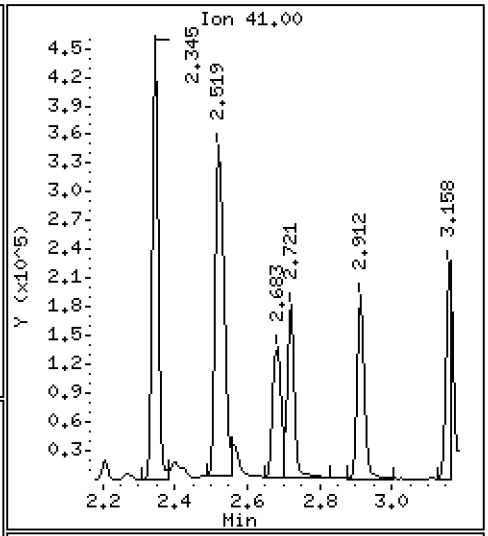
24 Acetonitrile Concentration: 255.971 ug/L

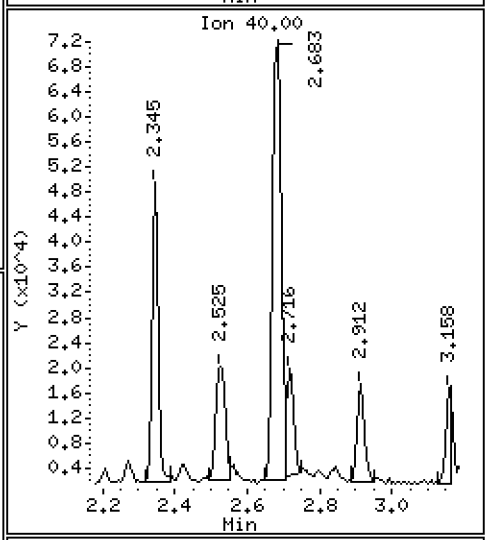


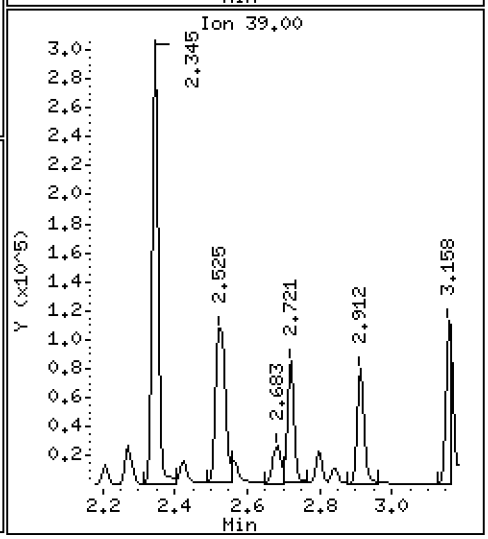












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 33

Date : 25-OCT-2016 00:52

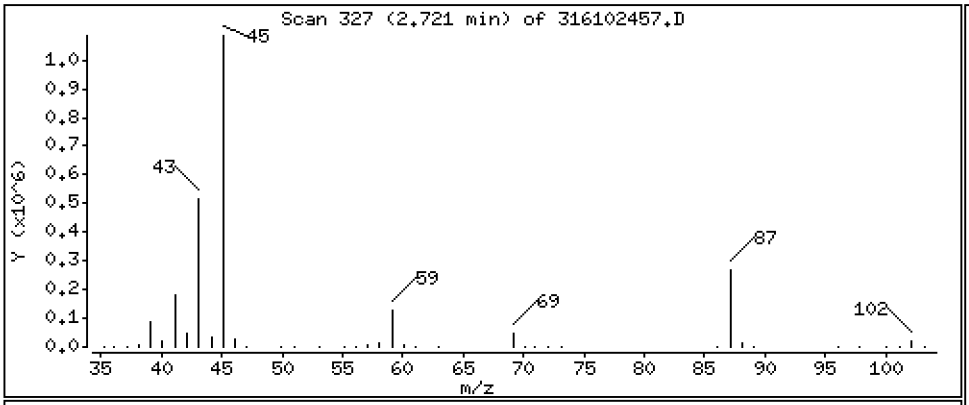
Client ID: Instrument: ms03.i

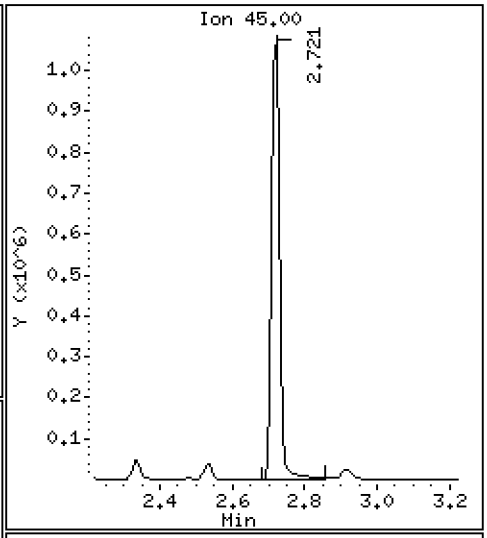
Sample Info: 1237;;1;1;4;;;

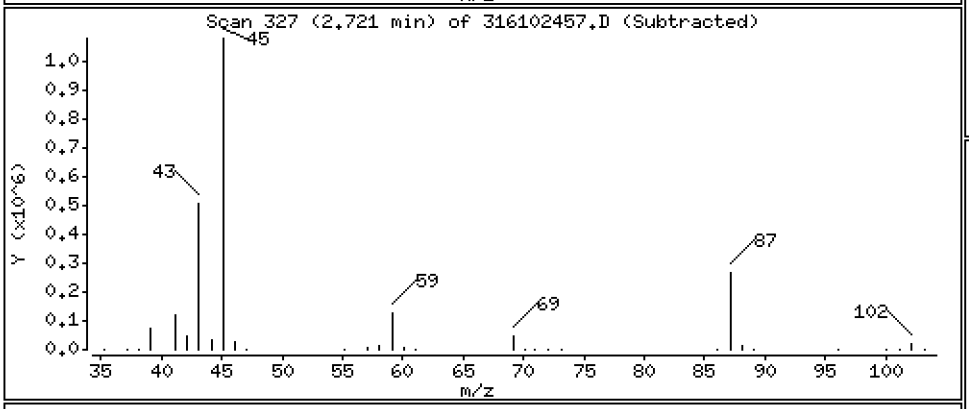
Purge Volume: 5.0 Operator: CJG

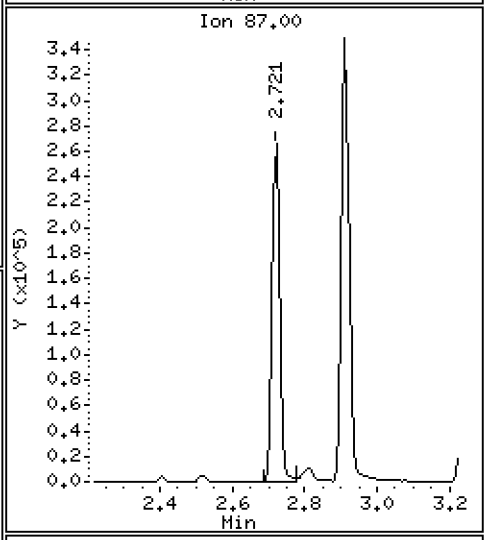
Column phase: DB-VRX Column diameter: 0.25

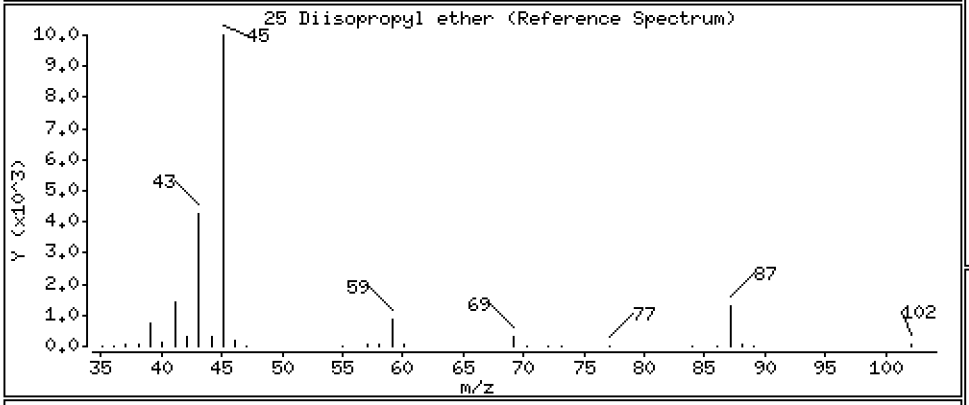
25 Diisopropyl ether Concentration: 49.8459 ug/L

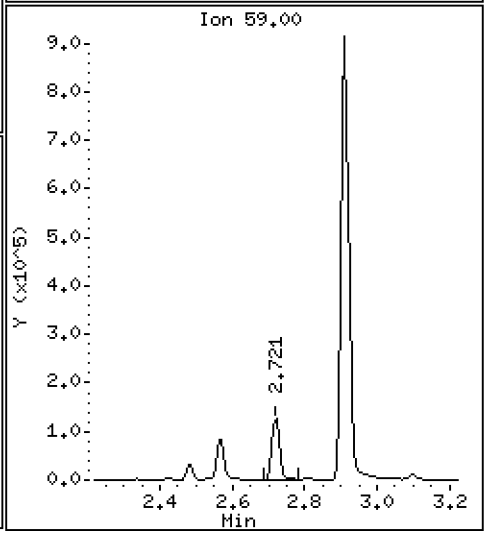


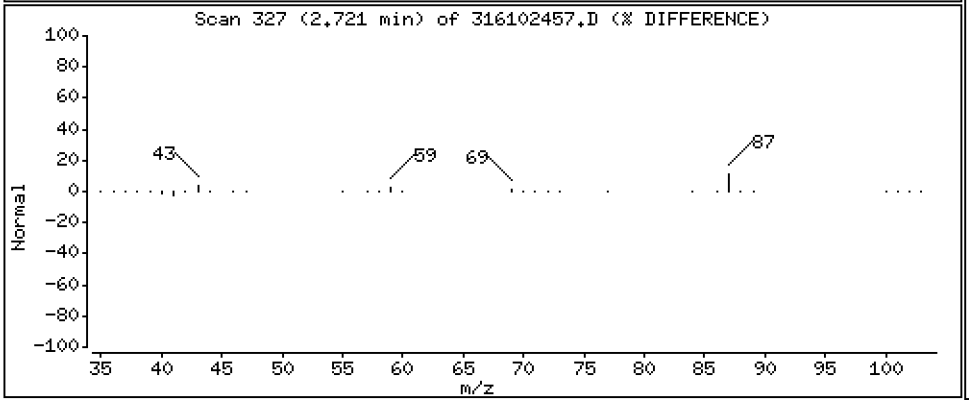












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 34

Date : 25-OCT-2016 00:52

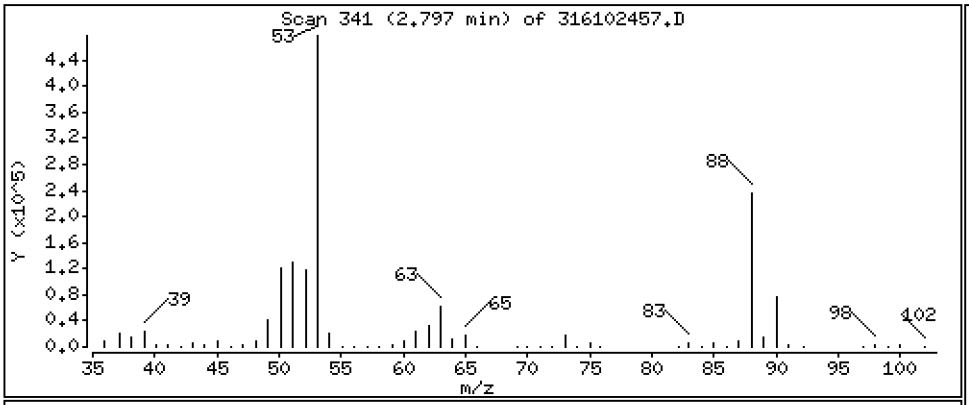
Client ID: Instrument: ms03.i

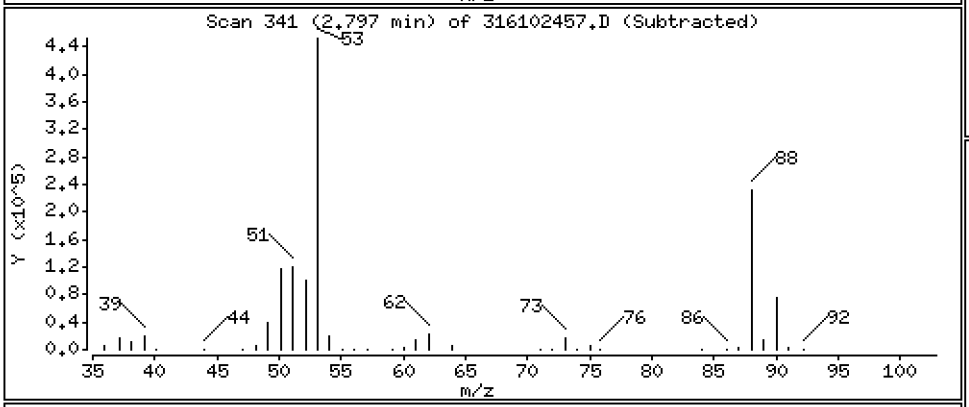
Sample Info: 1237;;1;1;4;;;

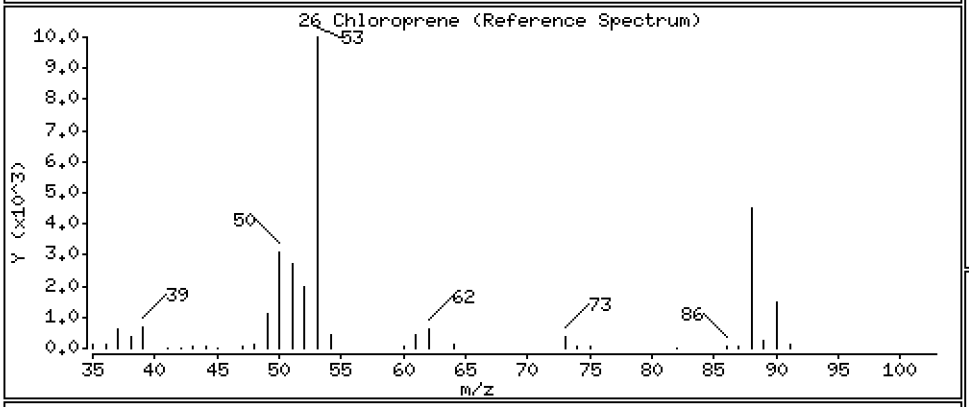
Purge Volume: 5.0 Operator: CJG

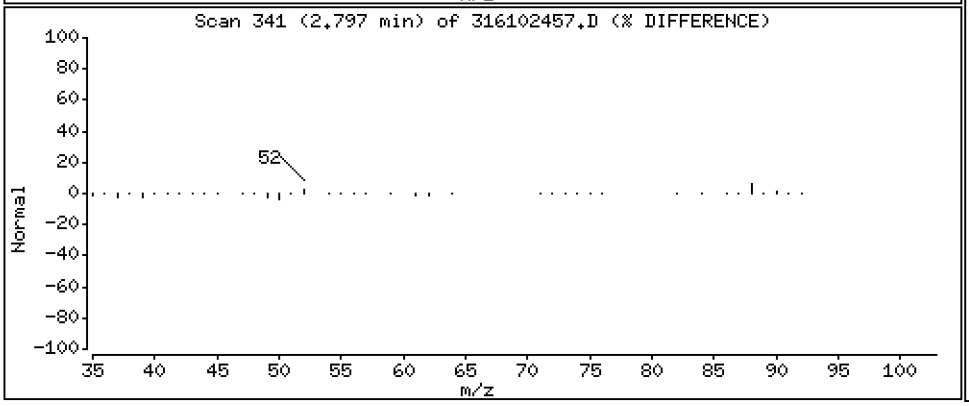
Column phase: DB-VRX Column diameter: 0.25

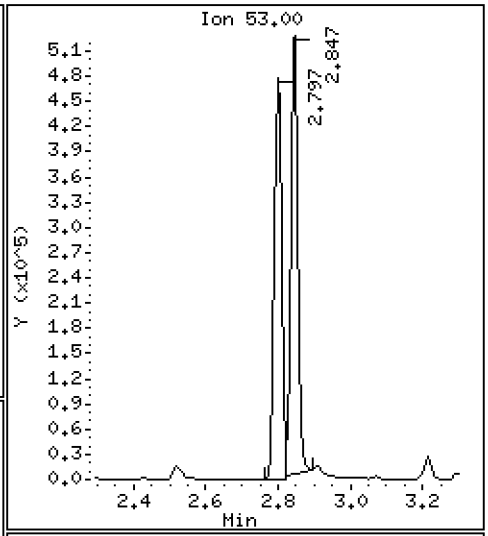
26 Chloroprene Concentration: 49.6179 ug/L

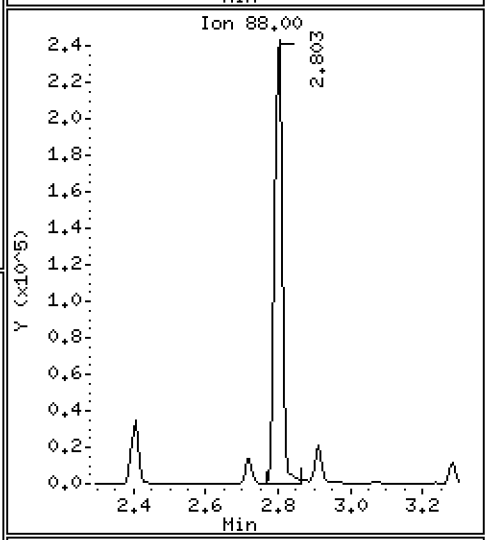


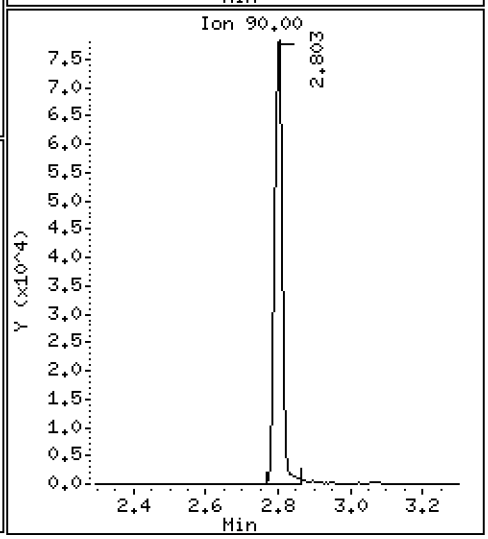












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 35

Date : 25-OCT-2016 00:52

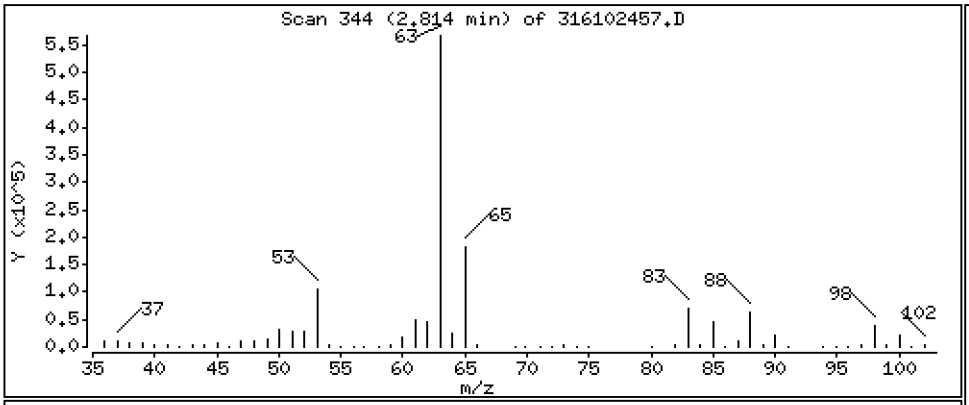
Client ID: Instrument: ms03.i

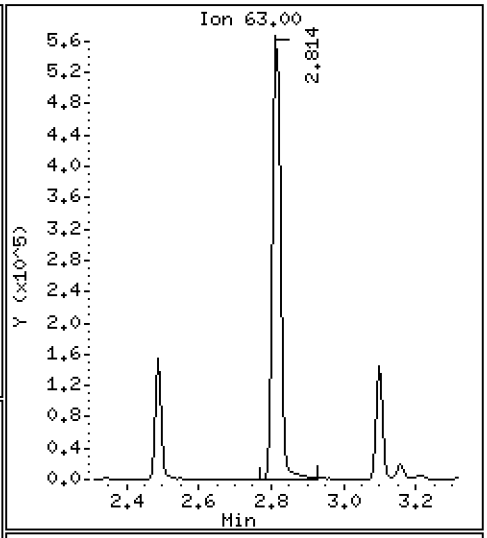
Sample Info: 1237;;1;1;4;;;

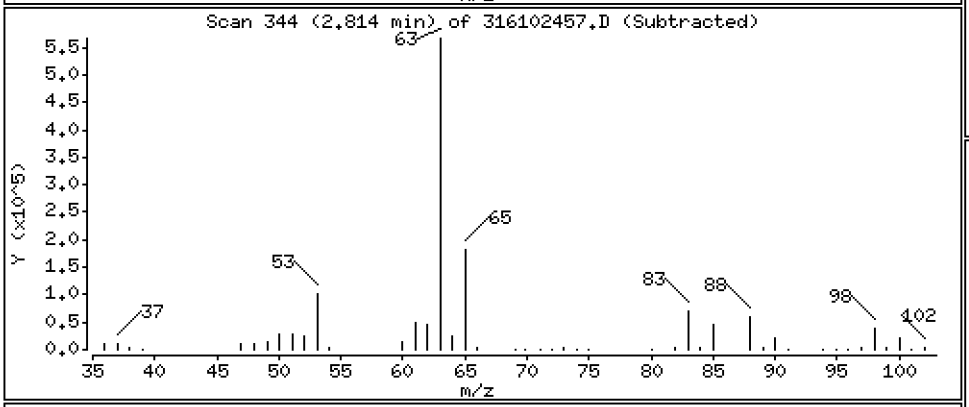
Purge Volume: 5.0 Operator: CJG

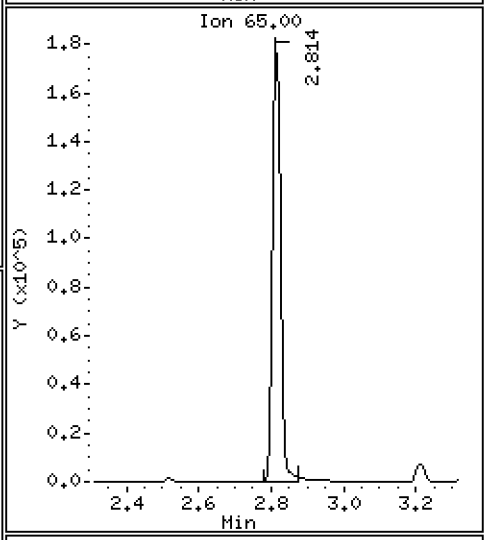
Column phase: DB-VRX Column diameter: 0.25

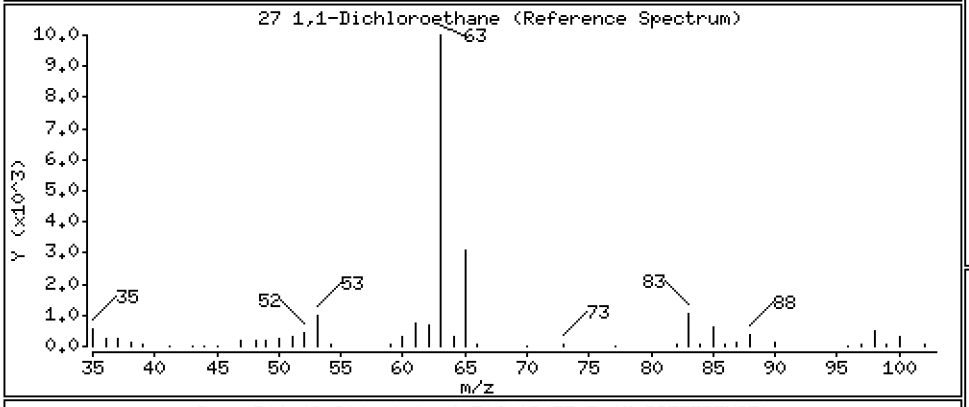
27 1,1-Dichloroethane Concentration: 50.1512 ug/L

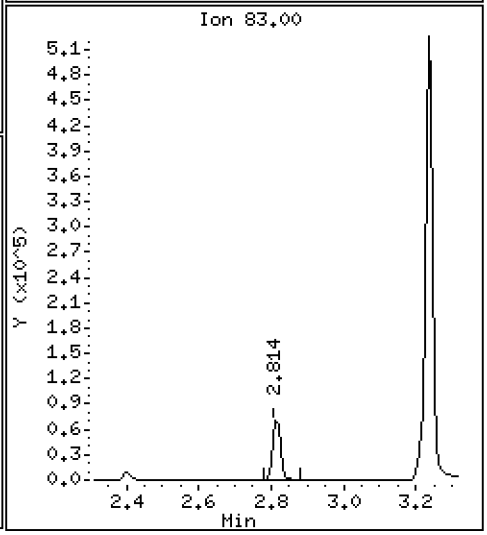


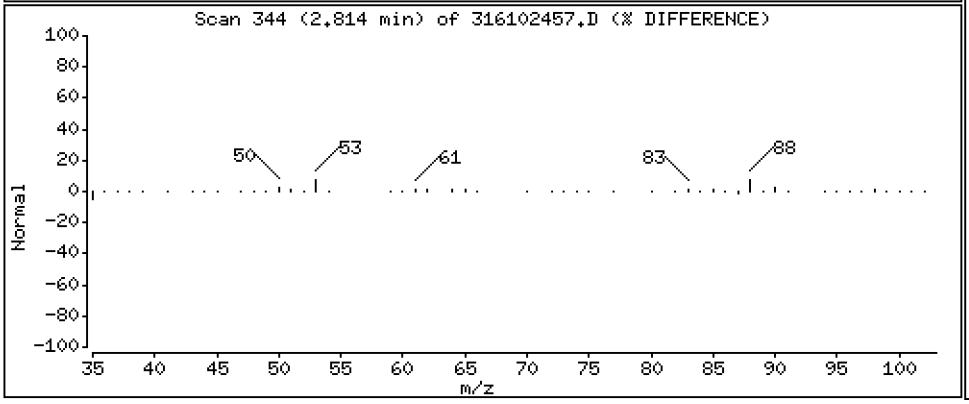












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 36

Date : 25-OCT-2016 00:52

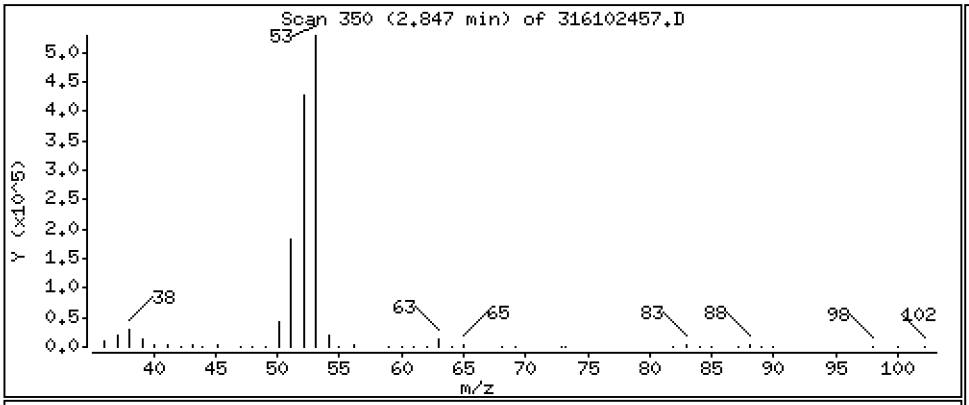
Client ID: Instrument: ms03.i

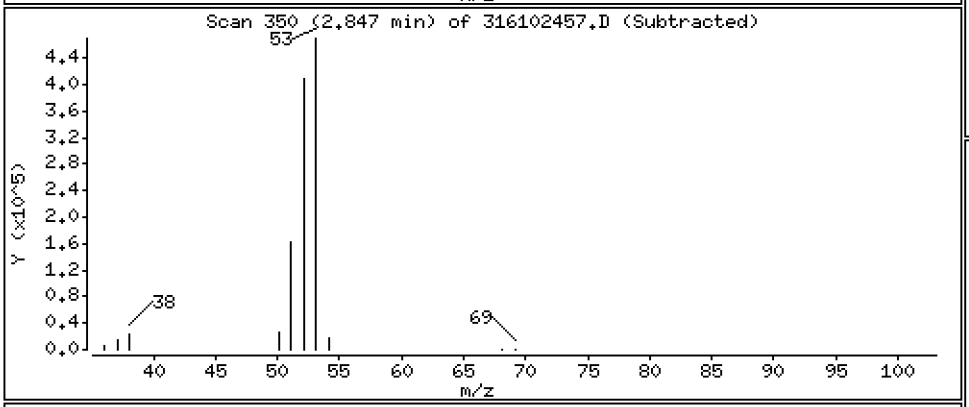
Sample Info: 1237;;1;1;4;;;

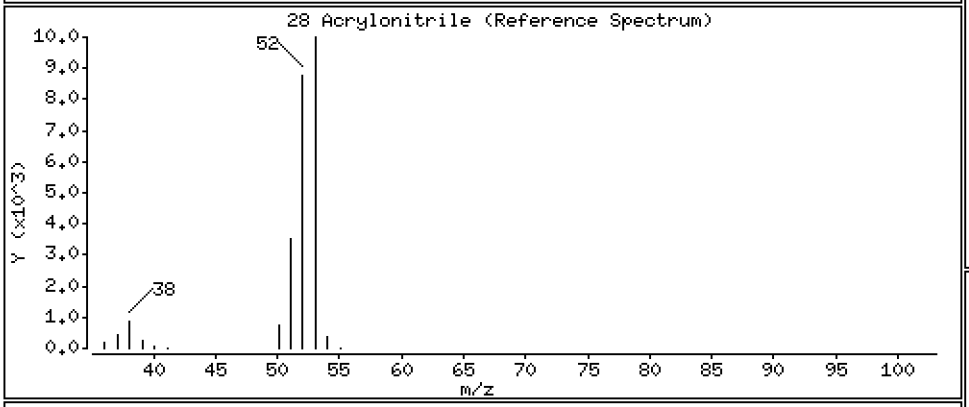
Purge Volume: 5.0 Operator: CJG

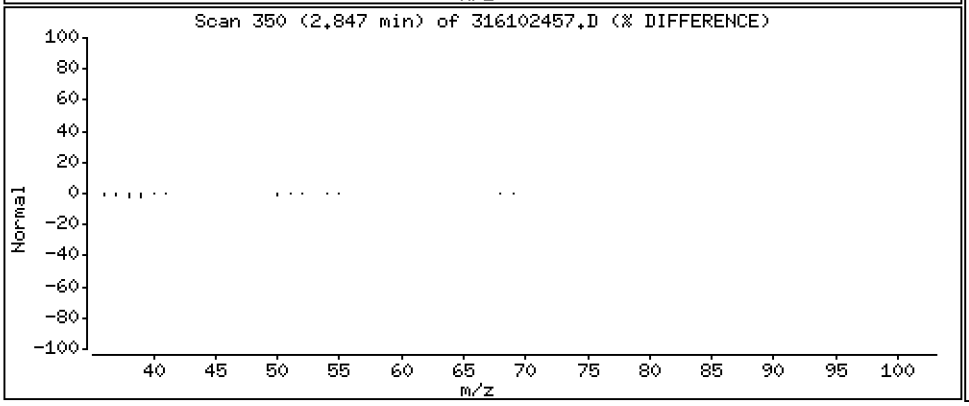
Column phase: DB-VRX Column diameter: 0.25

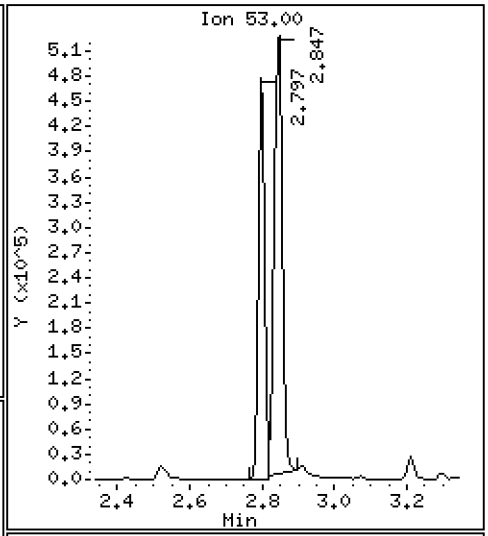
28 Acrylonitrile Concentration: 250.124 ug/L

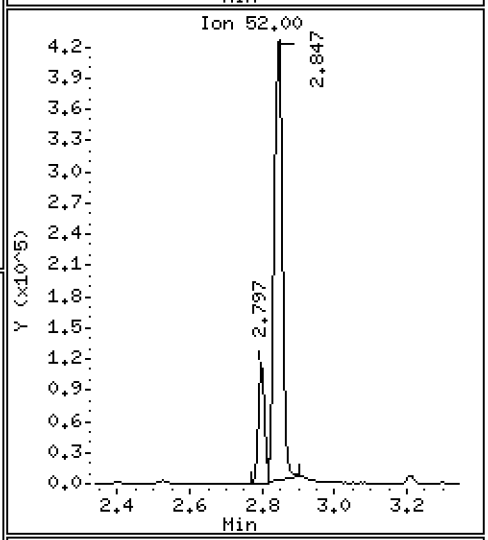


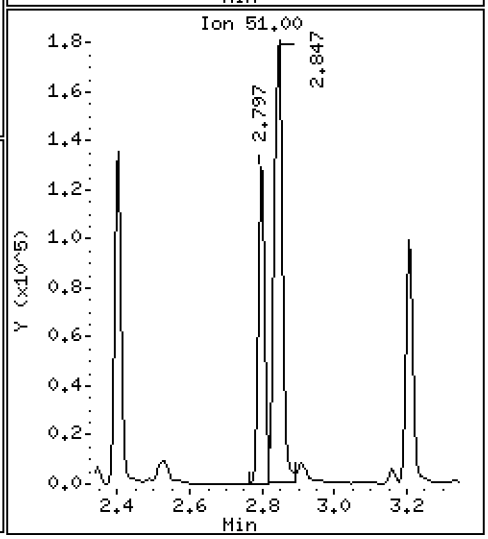












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 37

Date : 25-OCT-2016 00:52

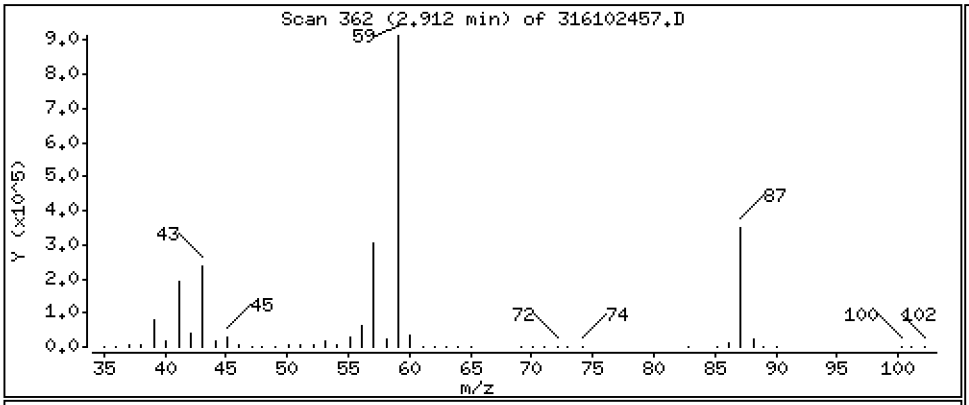
Client ID: Instrument: ms03.i

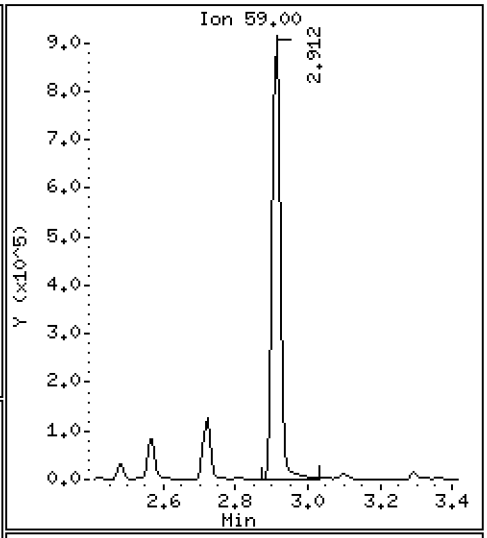
Sample Info: 1237;;1;1;4;;;

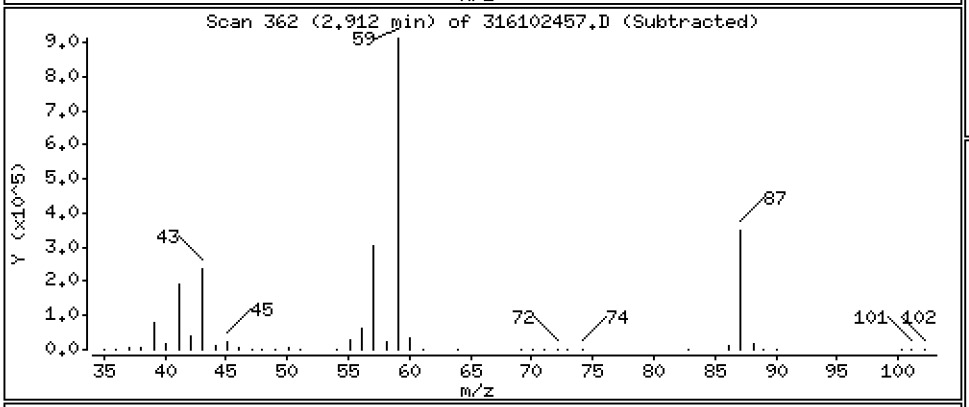
Purge Volume: 5.0 Operator: CJG

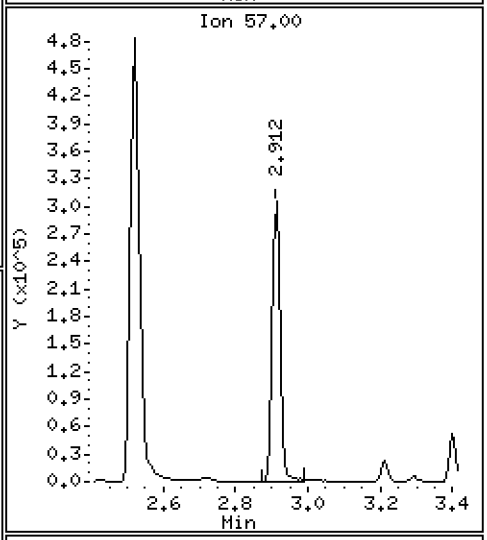
Column phase: DB-VRX Column diameter: 0.25

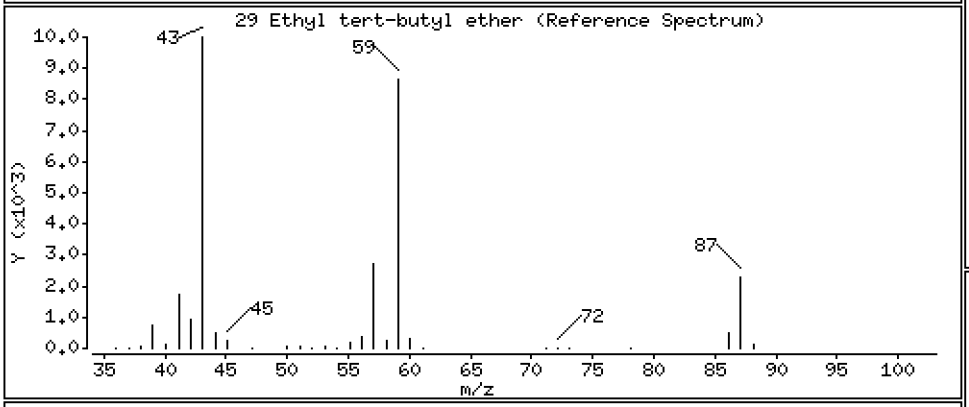
29 Ethyl tert-butyl ether Concentration: 49.5113 ug/L

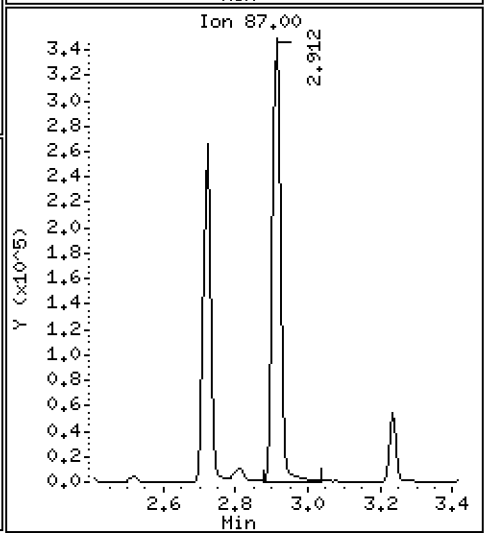


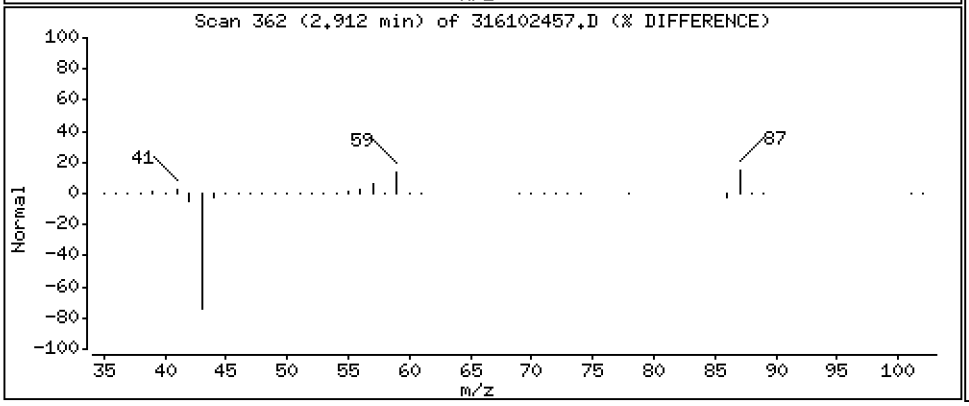












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 38

Date : 25-OCT-2016 00:52

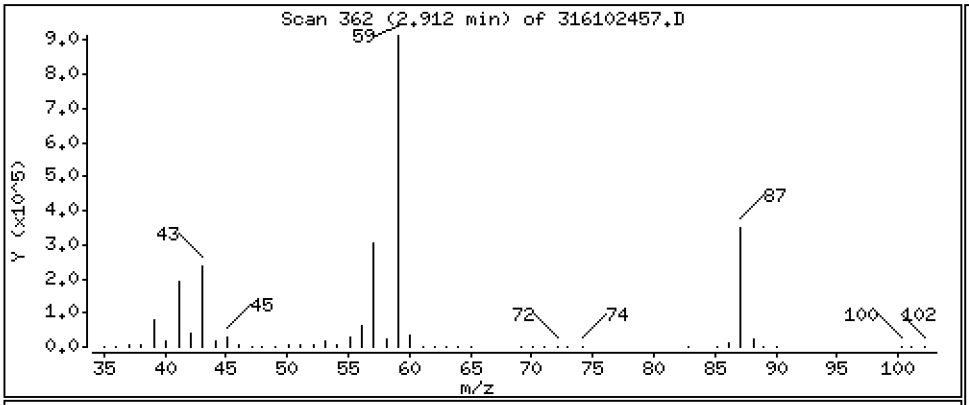
Client ID: Instrument: ms03.i

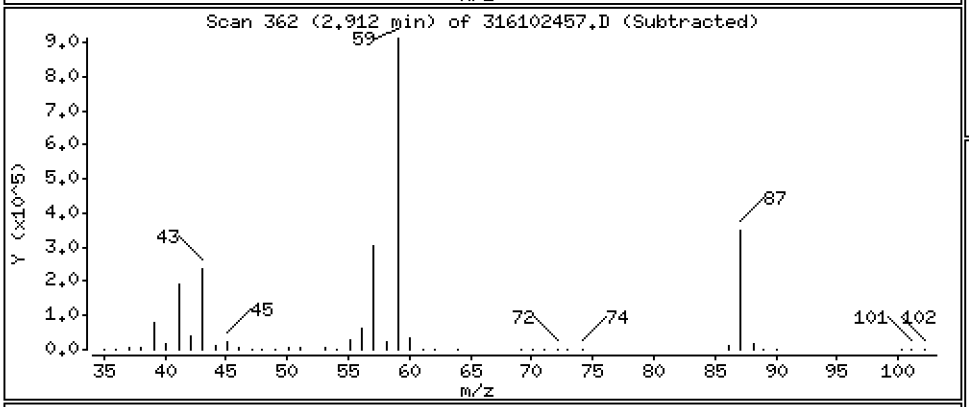
Sample Info: 1237;;1;1;4;;;

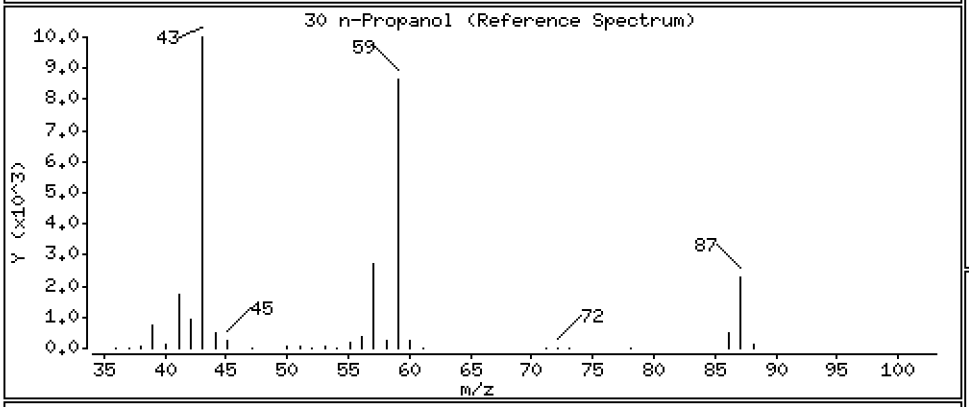
Purge Volume: 5.0 Operator: CJG

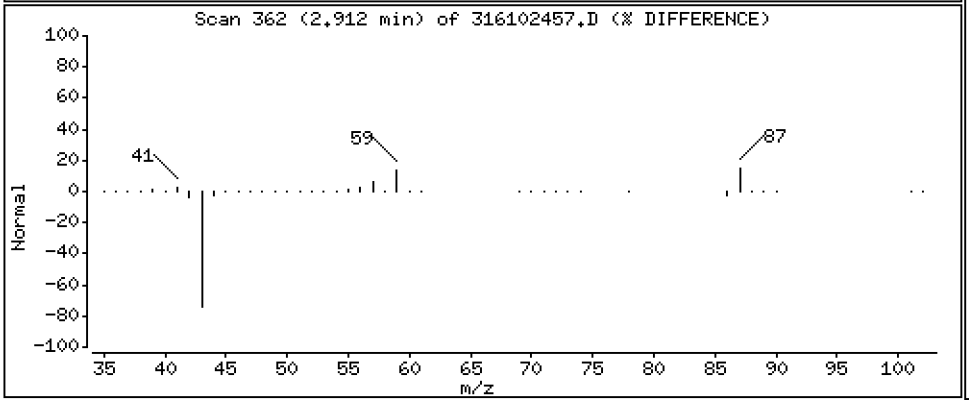
Column phase: DB-VRX Column diameter: 0.25

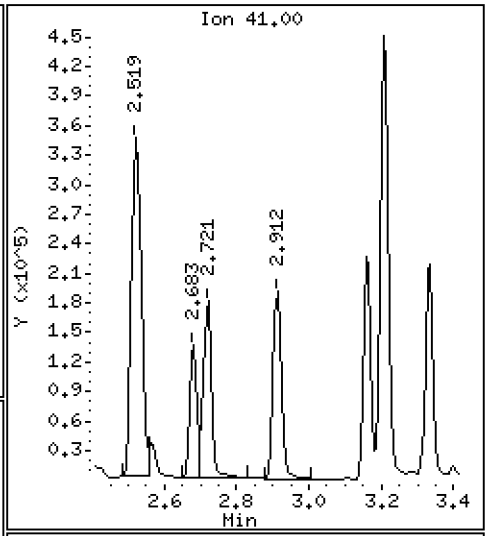
30 n-Propanol Concentration: 499.266 ug/L

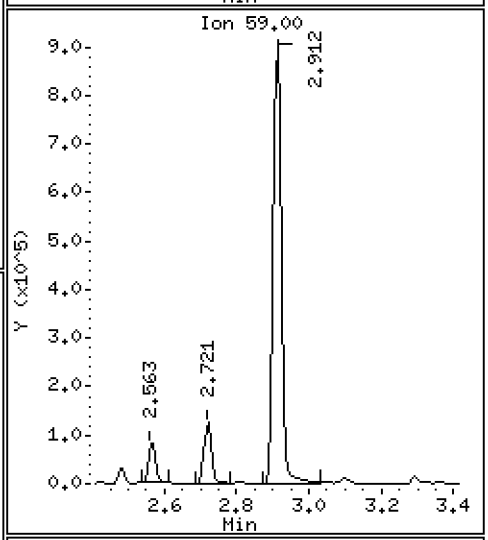


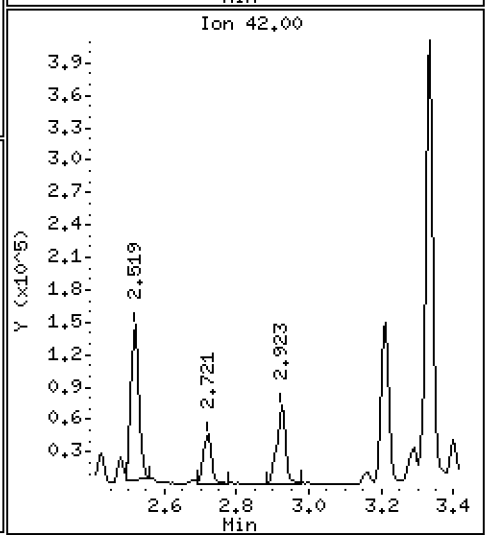












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 39

Date : 25-OCT-2016 00:52

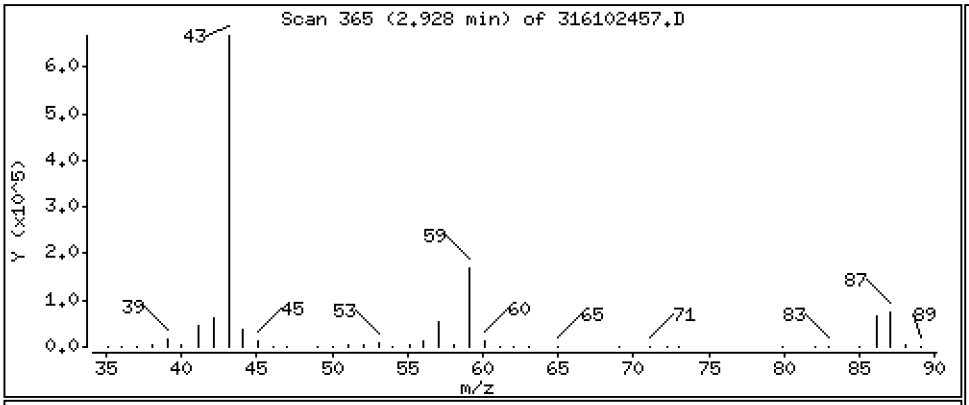
Client ID: Instrument: ms03.i

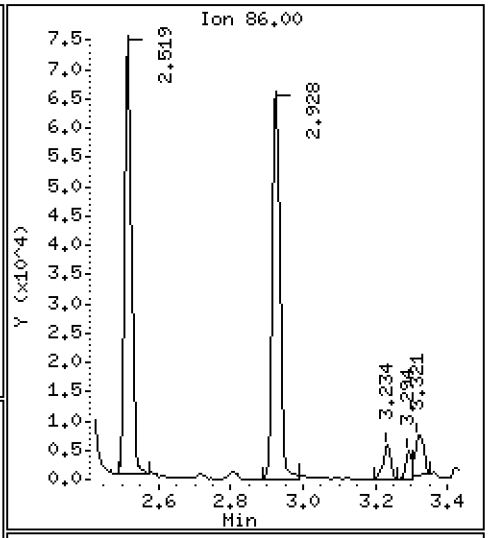
Sample Info: 1237;;1;1;4;;;

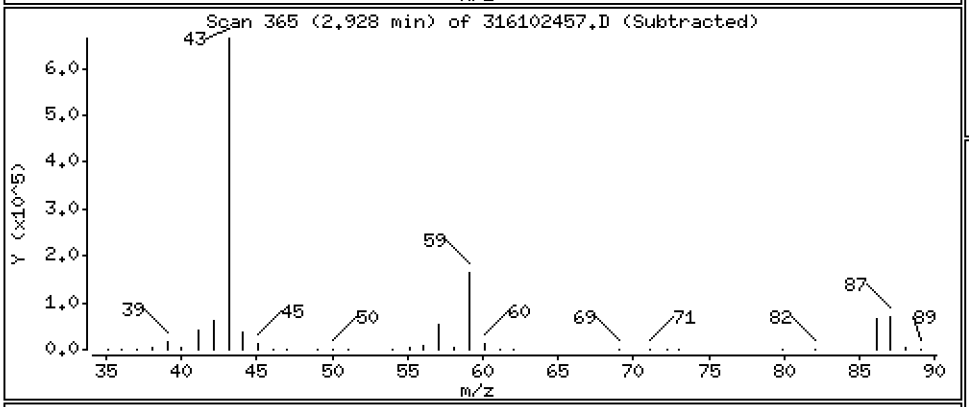
Purge Volume: 5.0 Operator: CJG

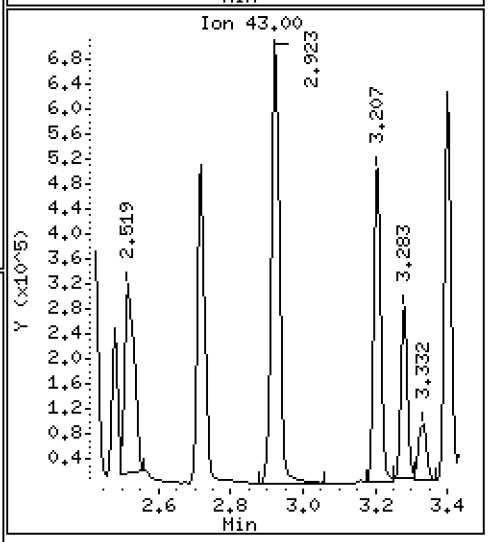
Column phase: DB-VRX Column diameter: 0.25

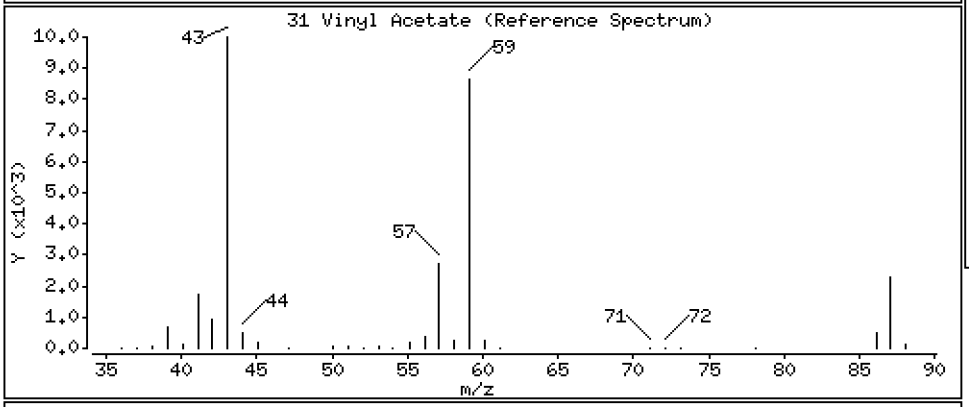
31 Vinyl Acetate Concentration: 49.6409 ug/L

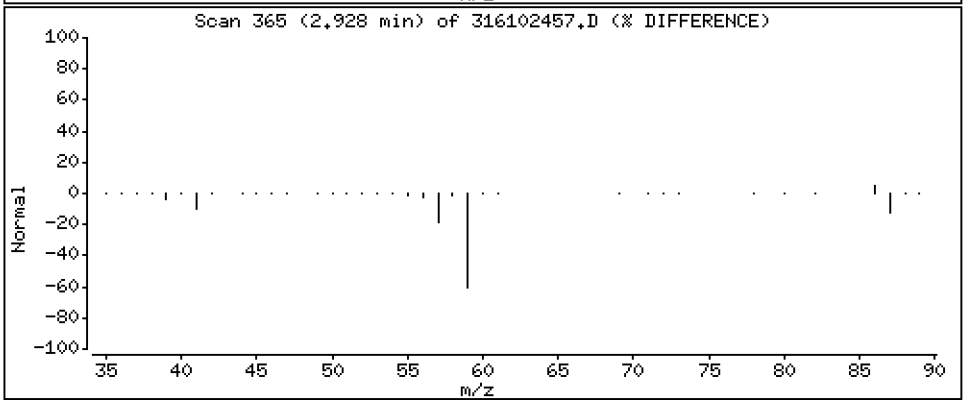












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 40

Date : 25-OCT-2016 00:52

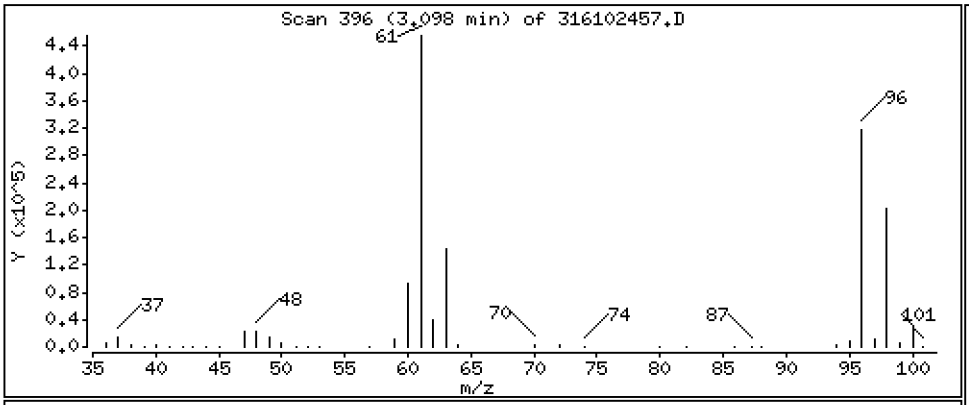
Client ID: Instrument: ms03.i

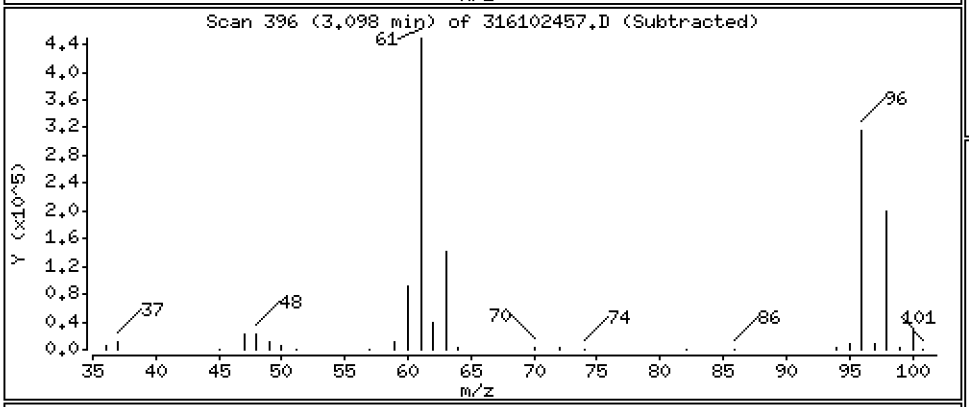
Sample Info: 1237;;1;1;4;;;

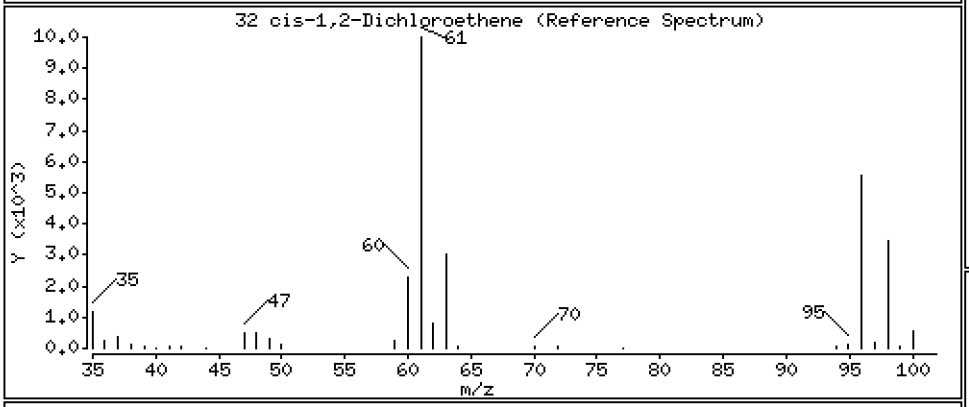
Purge Volume: 5.0 Operator: CJG

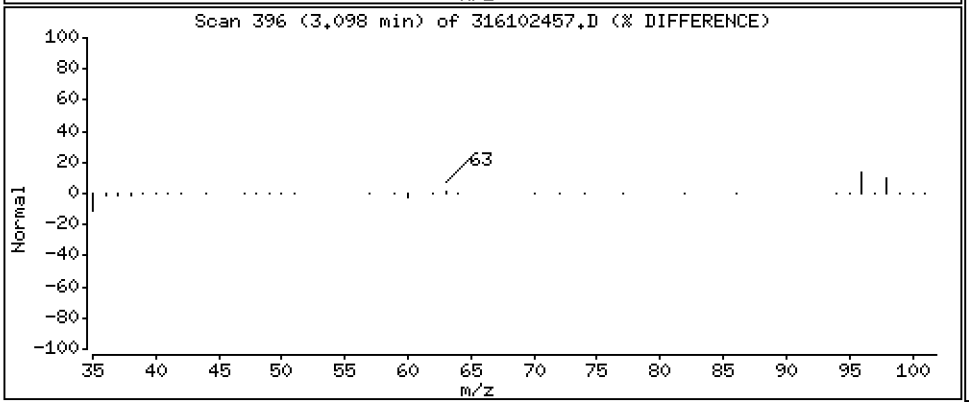
Column phase: DB-VRX Column diameter: 0.25

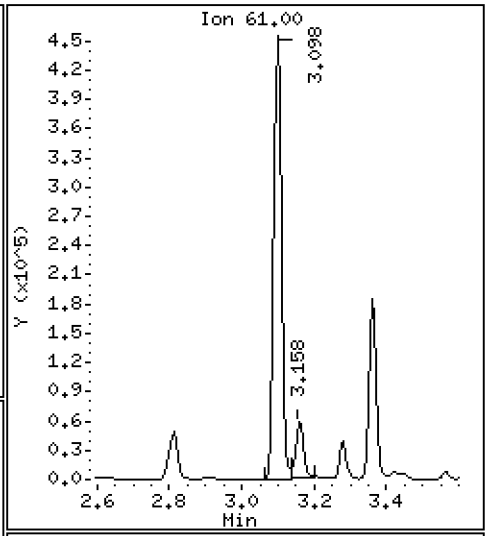
32 cis-1,2-Dichloroethene Concentration: 49.9502 ug/L

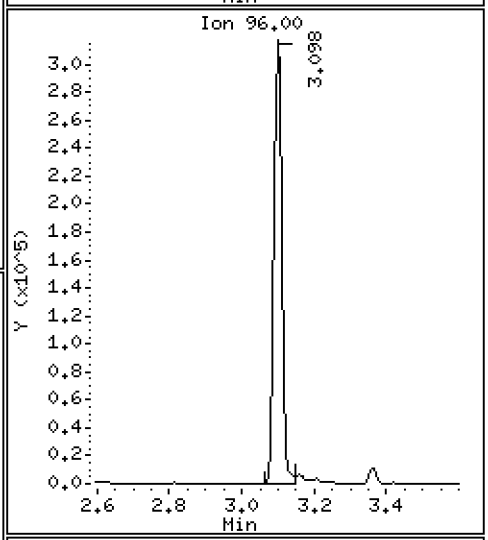


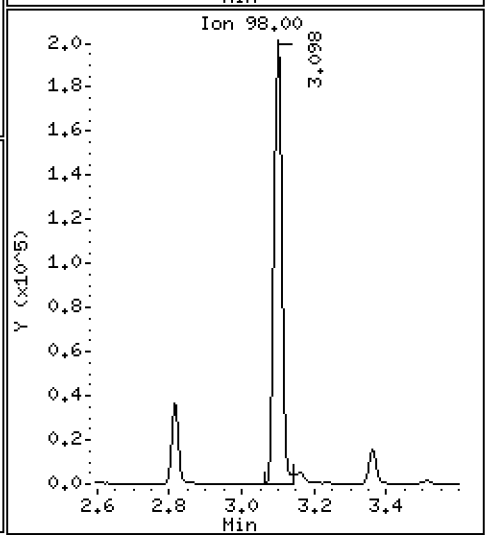












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 41

Date : 25-OCT-2016 00:52

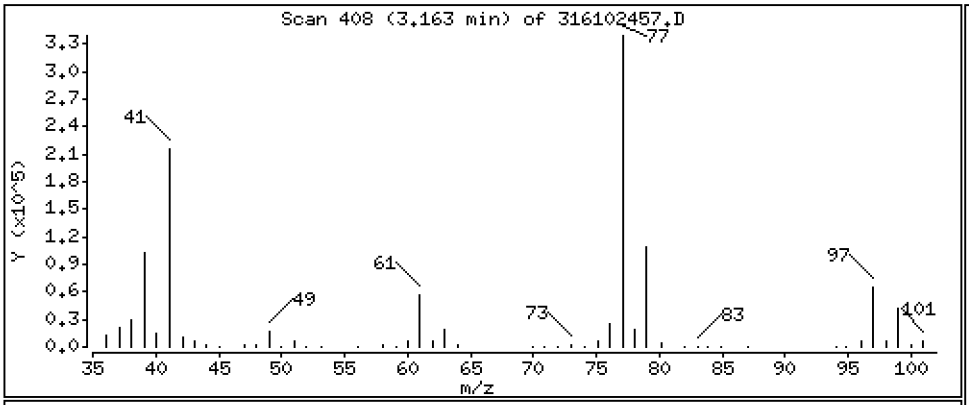
Client ID: Instrument: ms03.i

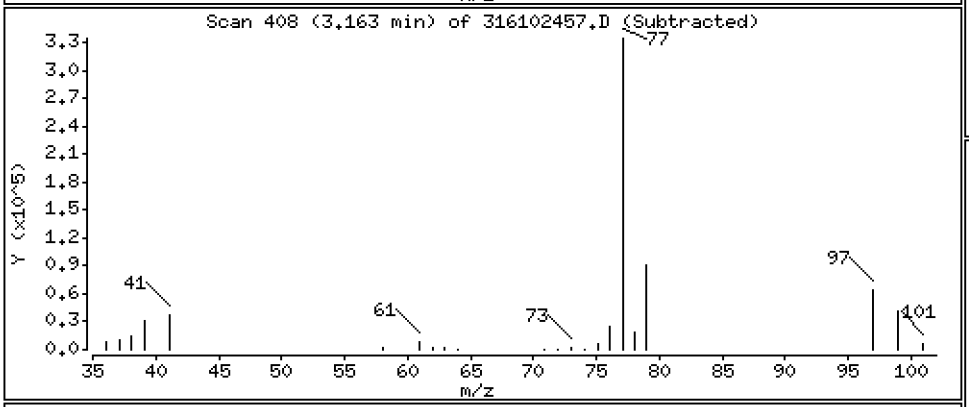
Sample Info: 1237;;1;1;4;;;

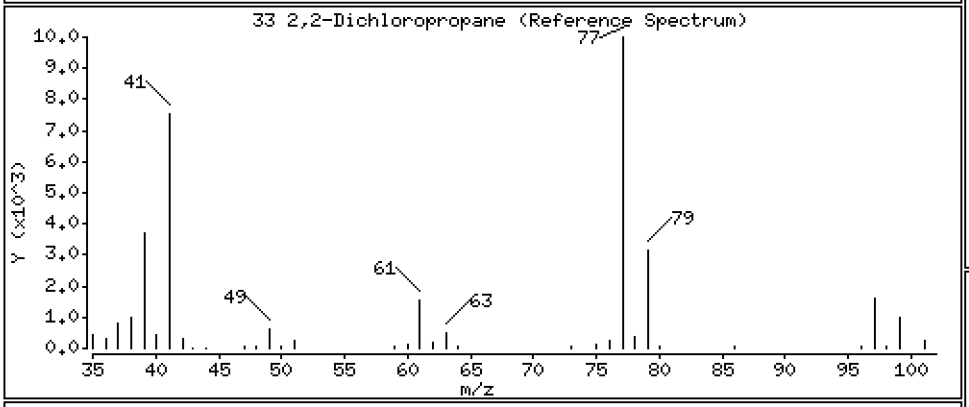
Purge Volume: 5.0 Operator: CJG

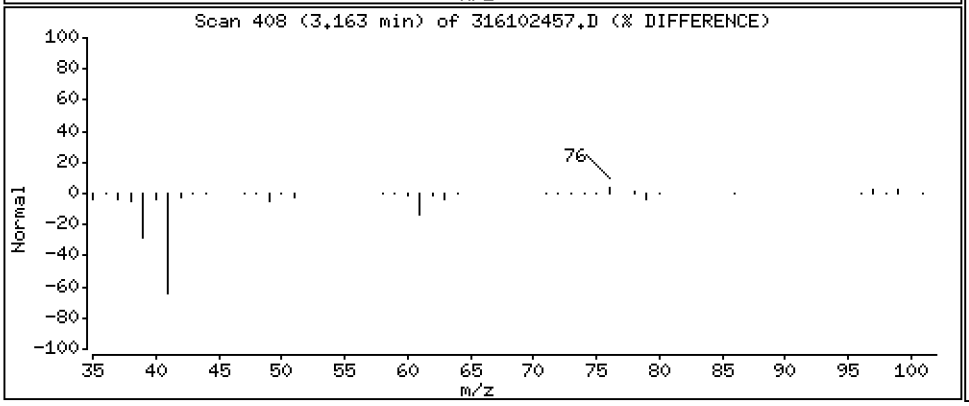
Column phase: DB-VRX Column diameter: 0.25

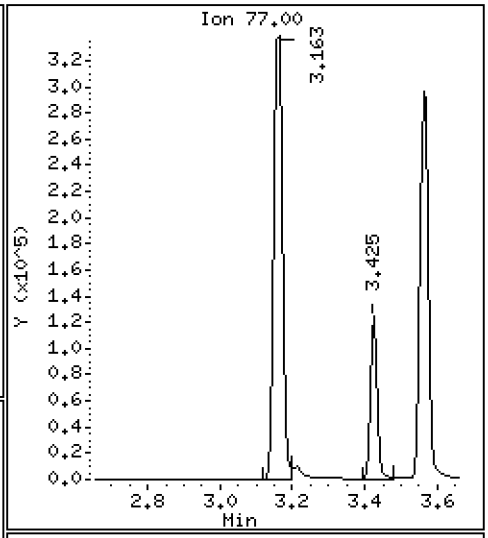
33 2,2-Dichloropropane Concentration: 49.1882 ug/L

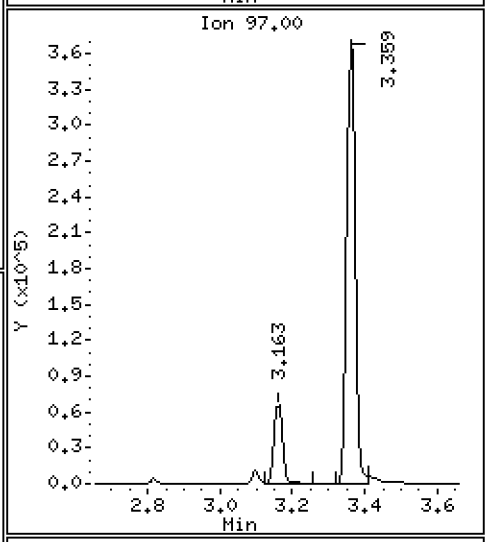


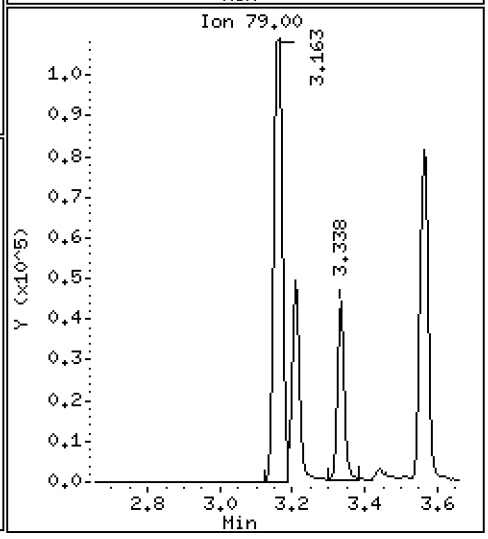












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 42

Date : 25-OCT-2016 00:52

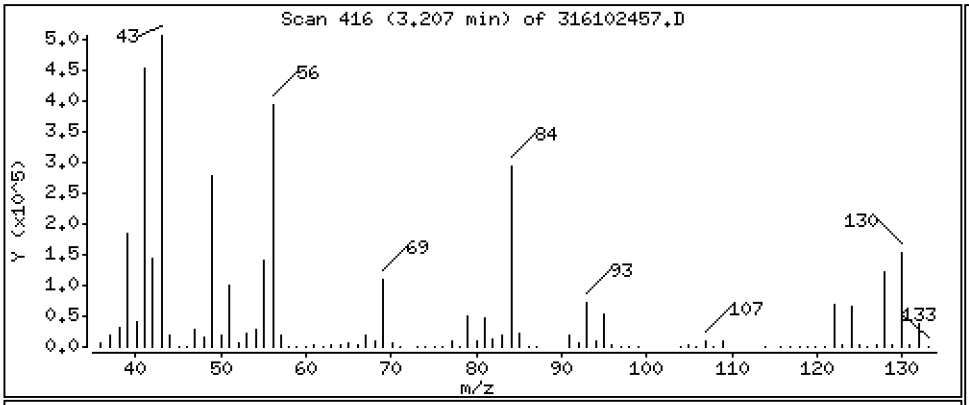
Client ID: Instrument: ms03.i

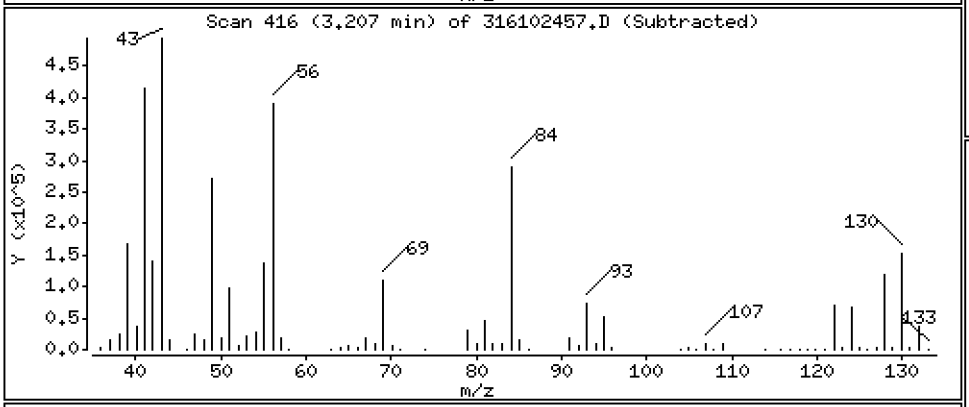
Sample Info: 1237;;1;1;4;;;

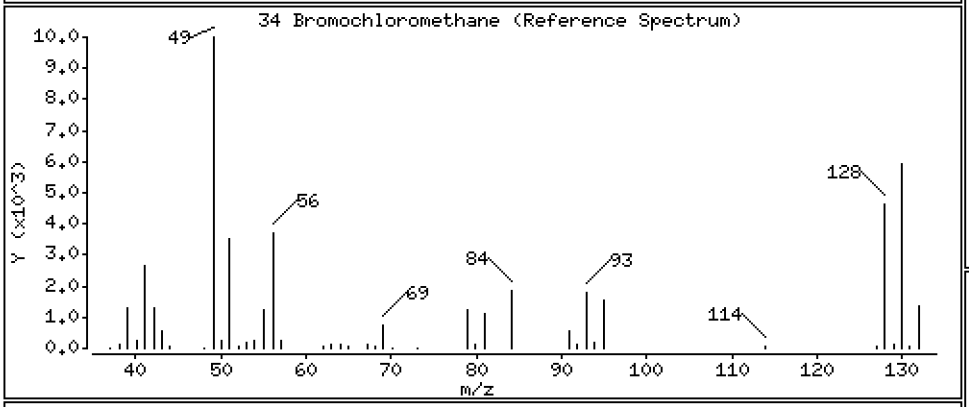
Purge Volume: 5.0 Operator: CJG

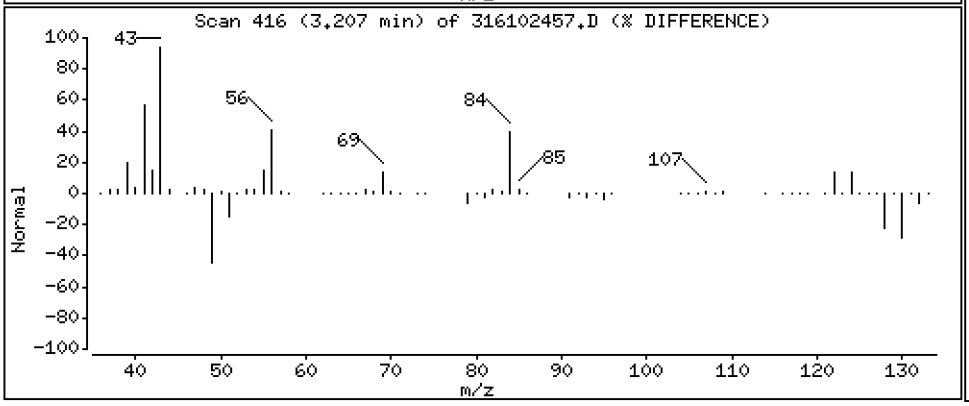
Column phase: DB-VRX Column diameter: 0.25

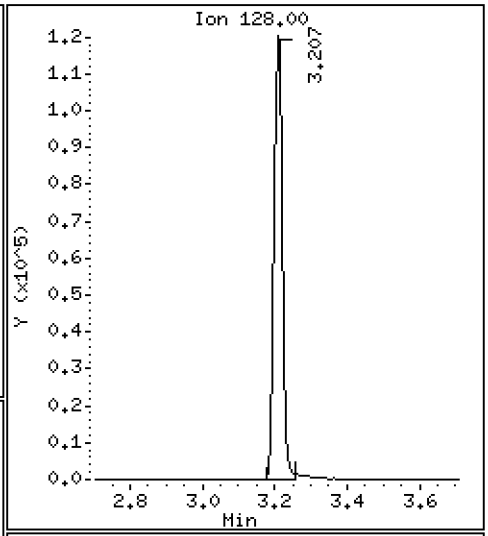
34 Bromochloromethane Concentration: 48.3446 ug/L

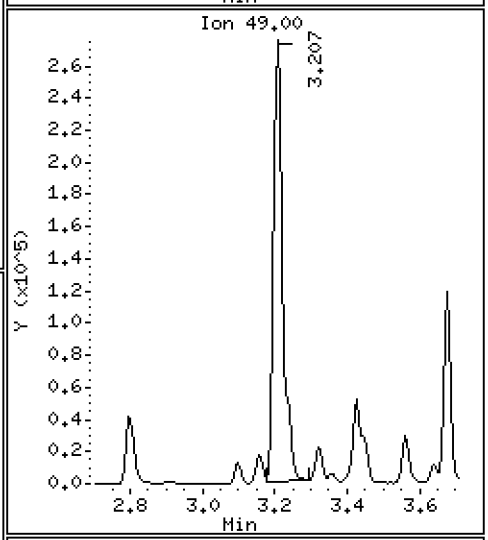


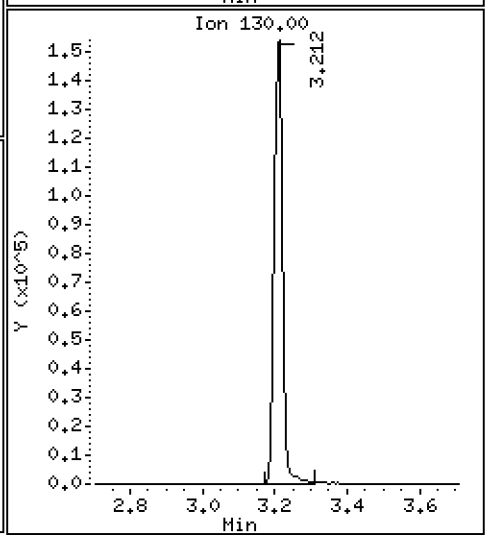












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 43

Date : 25-OCT-2016 00:52

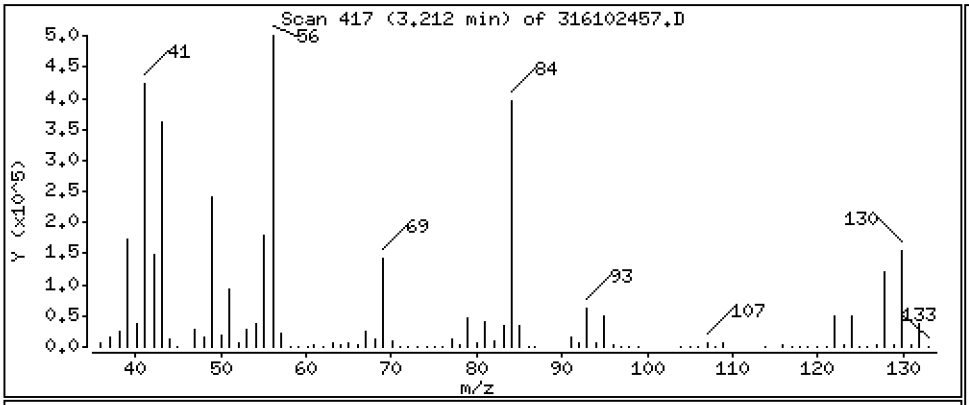
Client ID: Instrument: ms03.i

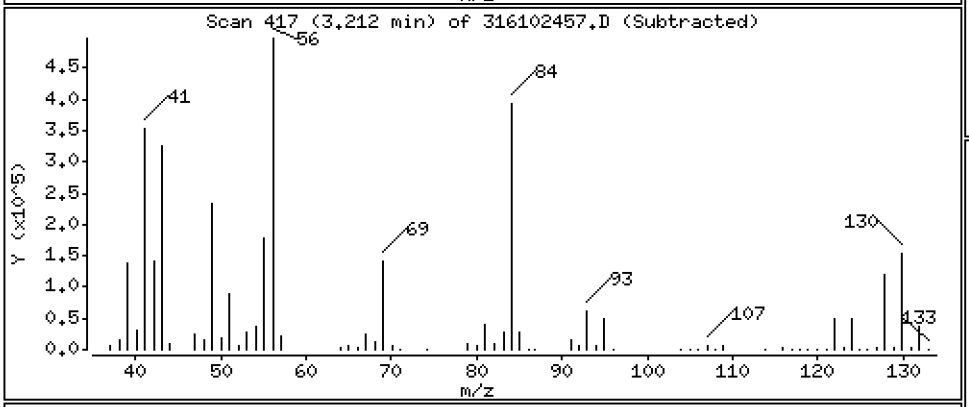
Sample Info: 1237;;1;1;4;;;

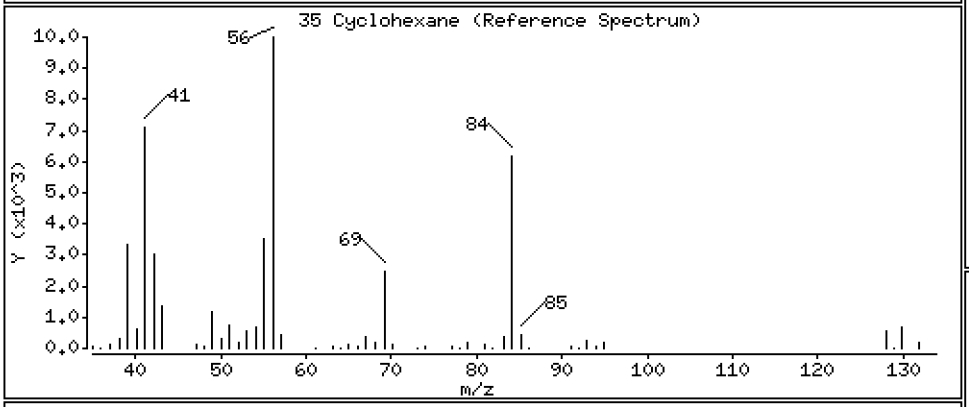
Purge Volume: 5.0 Operator: CJG

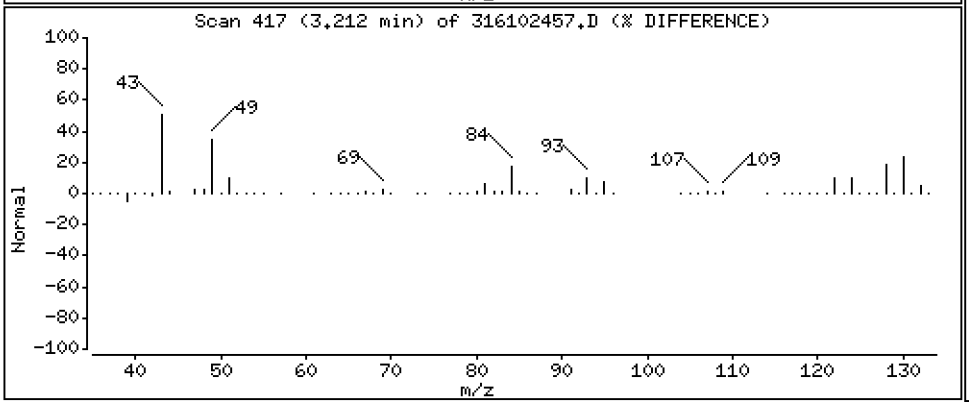
Column phase: DB-VRX Column diameter: 0.25

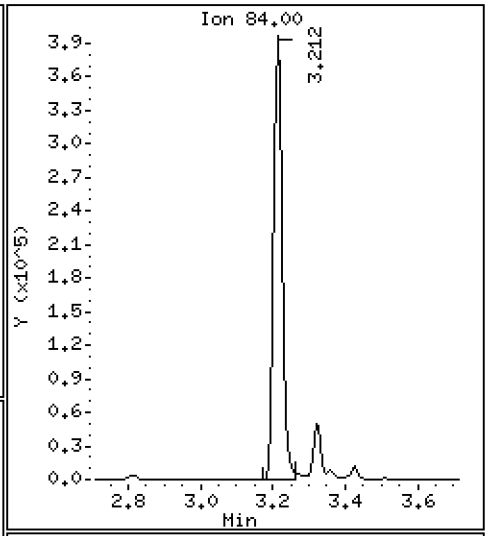
35 Cyclohexane Concentration: 49.0909 ug/L

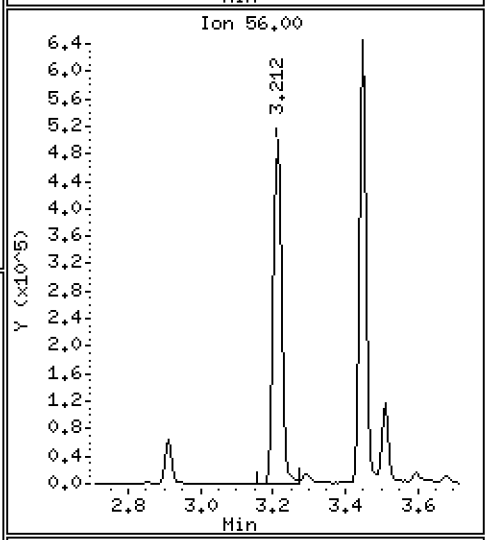


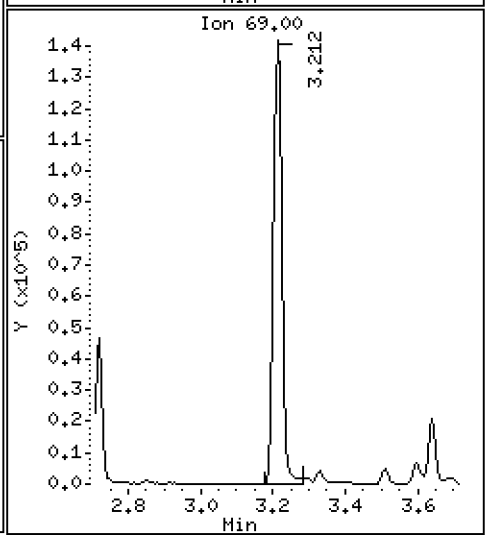












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 44

Date : 25-OCT-2016 00:52

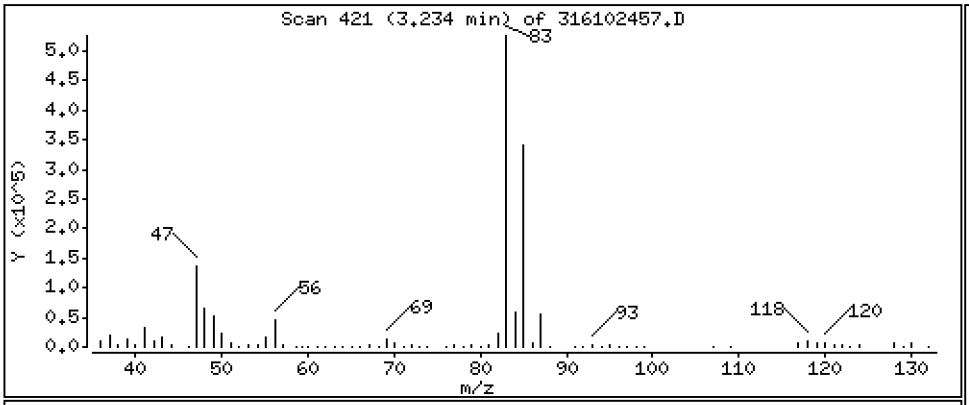
Client ID: Instrument: ms03.i

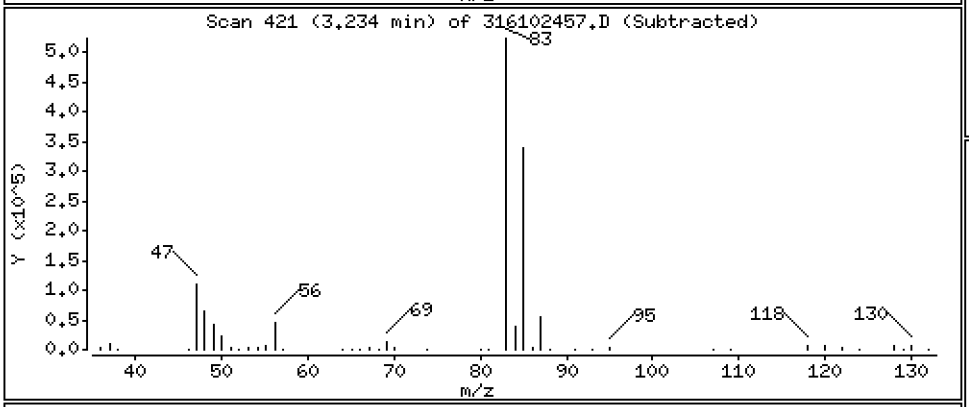
Sample Info: 1237;;1;1;4;;;

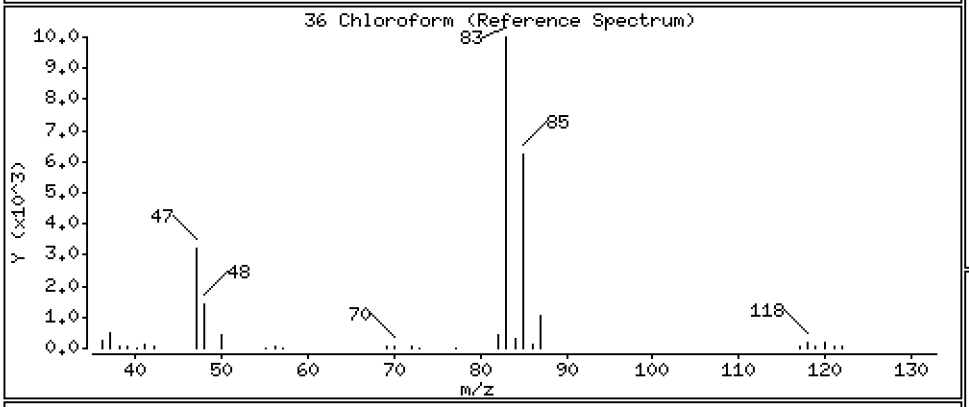
Purge Volume: 5.0 Operator: CJG

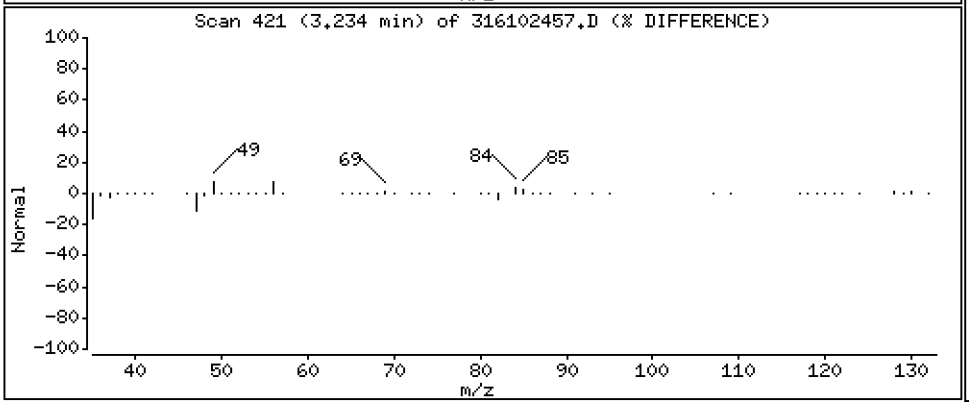
Column phase: DB-VRX Column diameter: 0.25

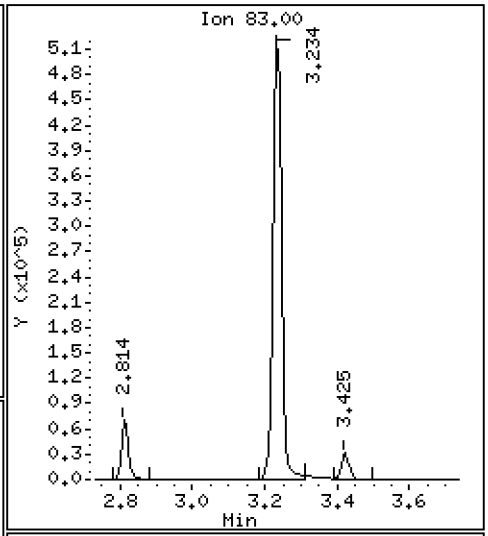
36 Chloroform Concentration: 50.0466 ug/L

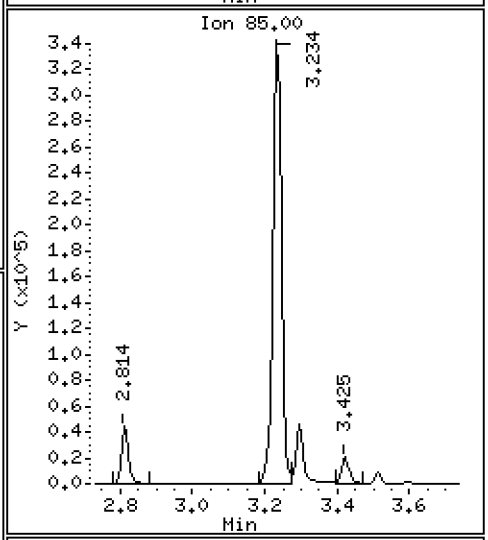


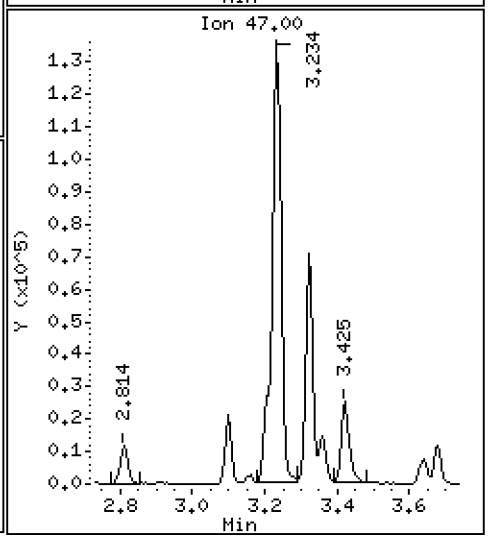












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 45

Date : 25-OCT-2016 00:52

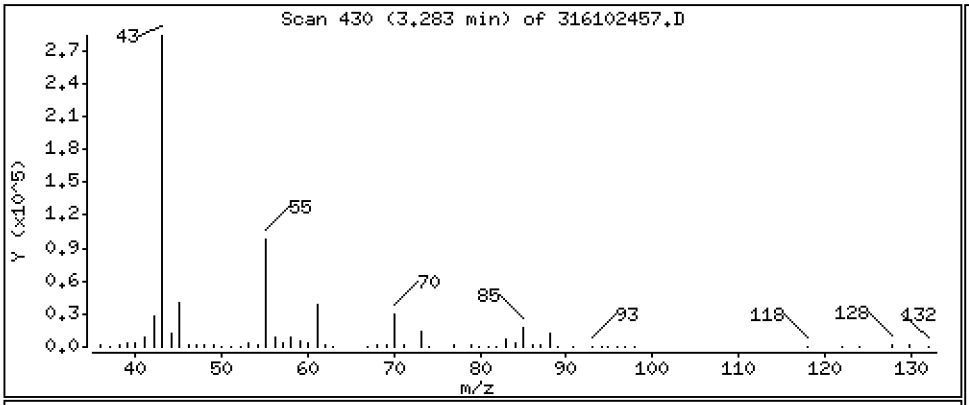
Client ID: Instrument: ms03.i

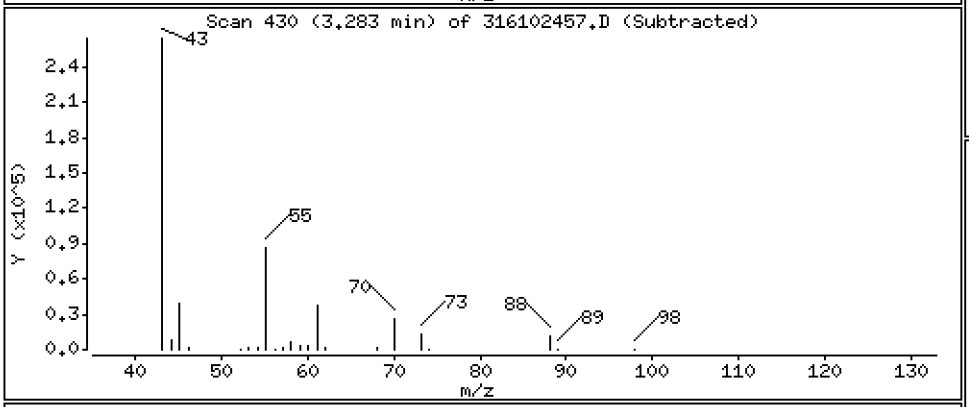
Sample Info: 1237;;1;1;4;;;

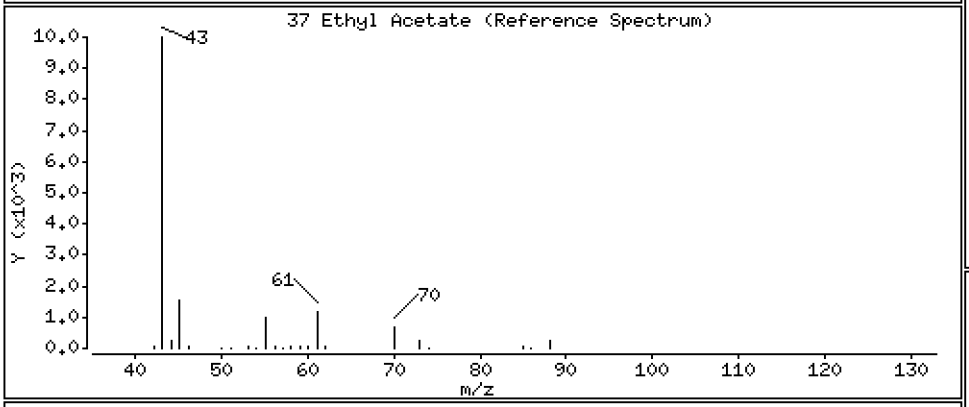
Purge Volume: 5.0 Operator: CJG

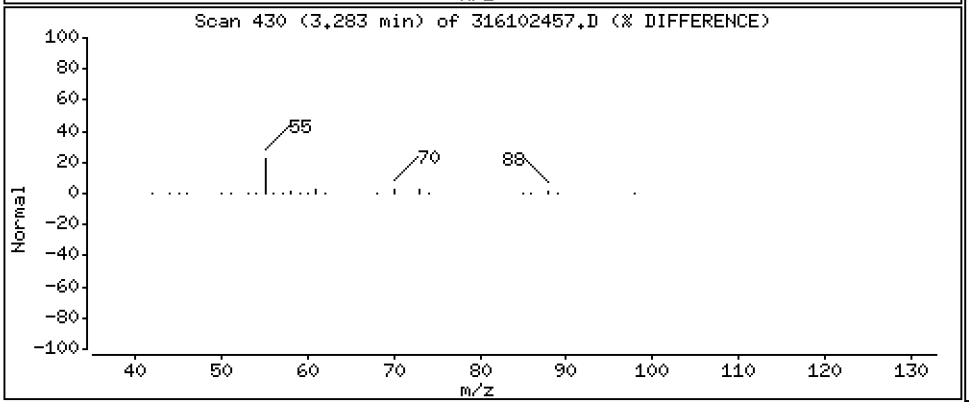
Column phase: DB-VRX Column diameter: 0.25

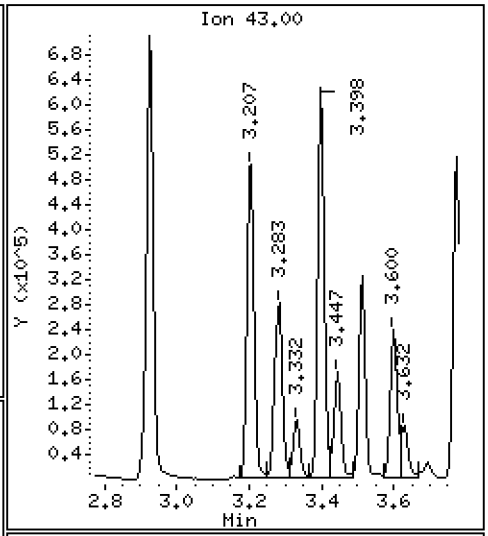
37 Ethyl Acetate Concentration: 51.2737 ug/L

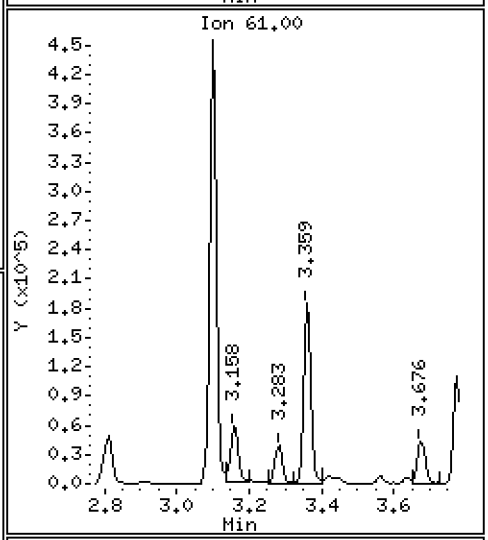


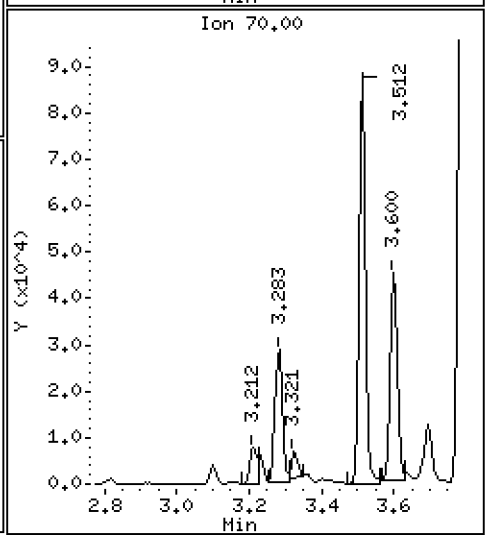












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 46

Date : 25-OCT-2016 00:52

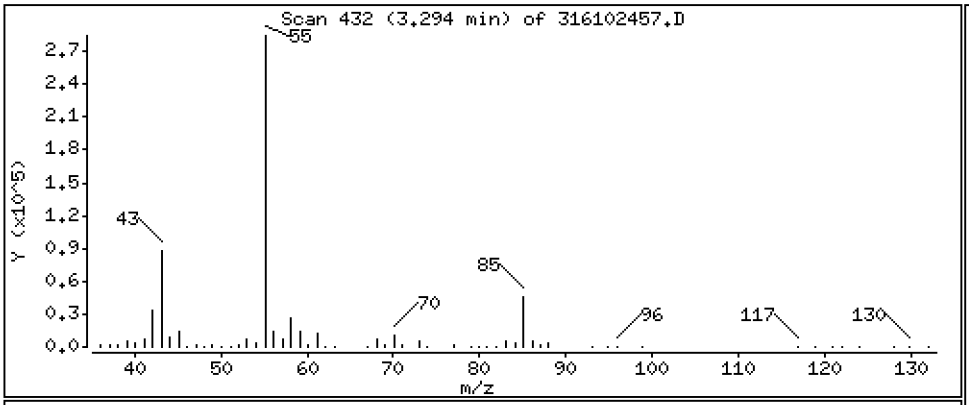
Client ID: Instrument: ms03.i

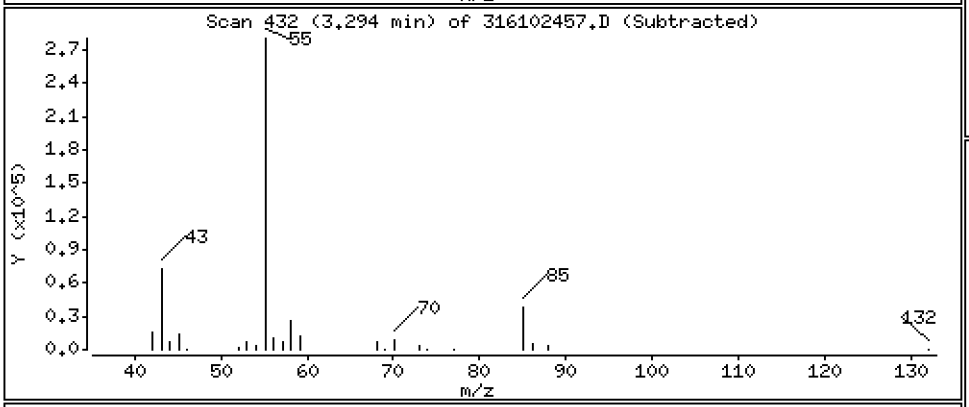
Sample Info: 1237;;1;1;4;;;

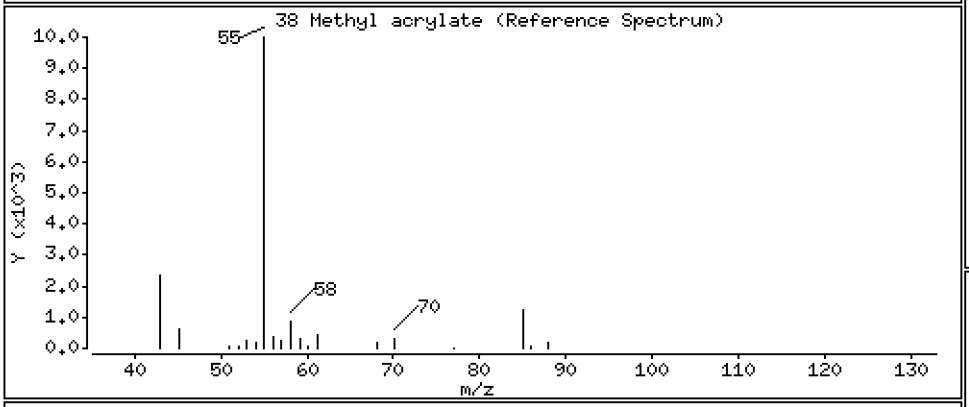
Purge Volume: 5.0 Operator: CJG

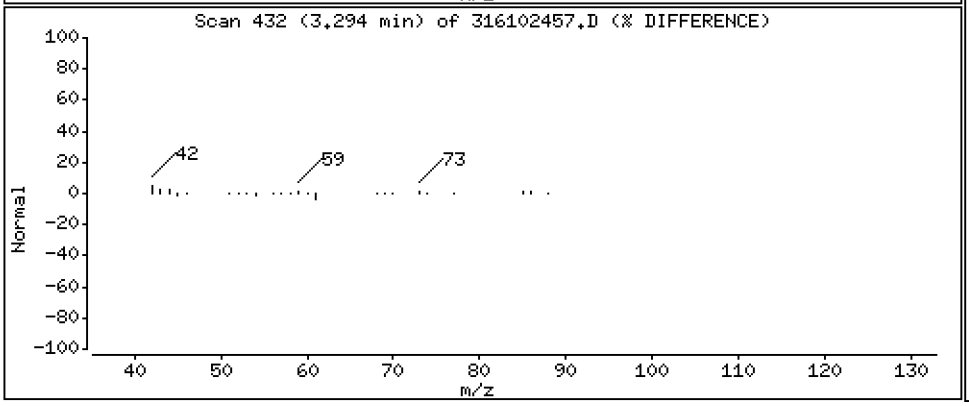
Column phase: DB-VRX Column diameter: 0.25

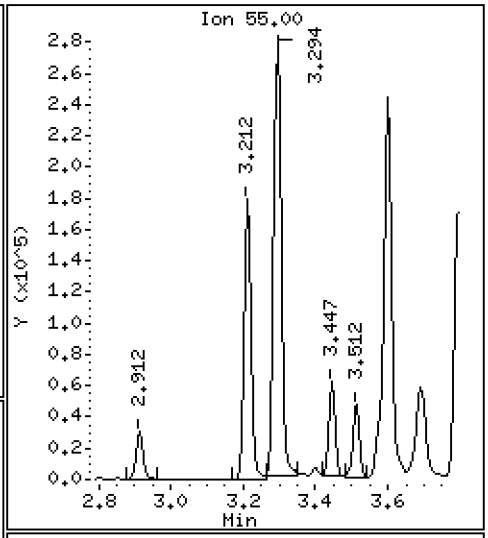
38 Methyl acrylate Concentration: 50.2316 ug/L

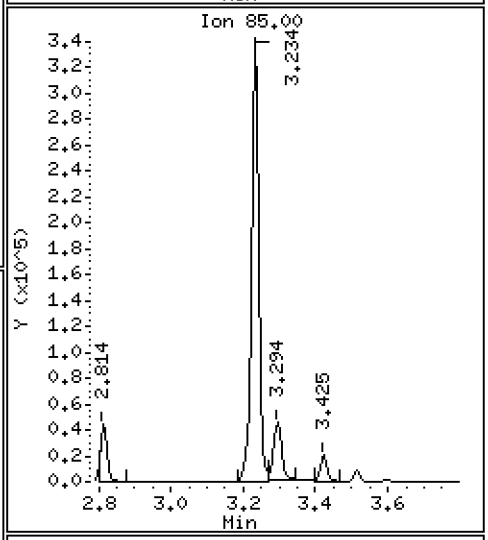


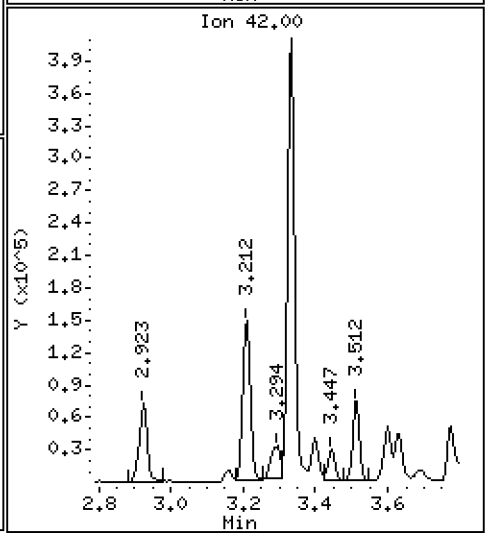












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 47

Date : 25-OCT-2016 00:52

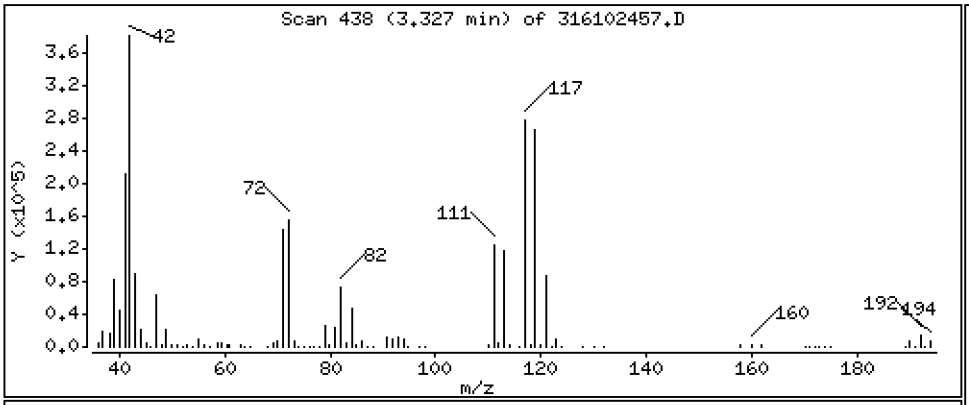
Client ID: Instrument: ms03.i

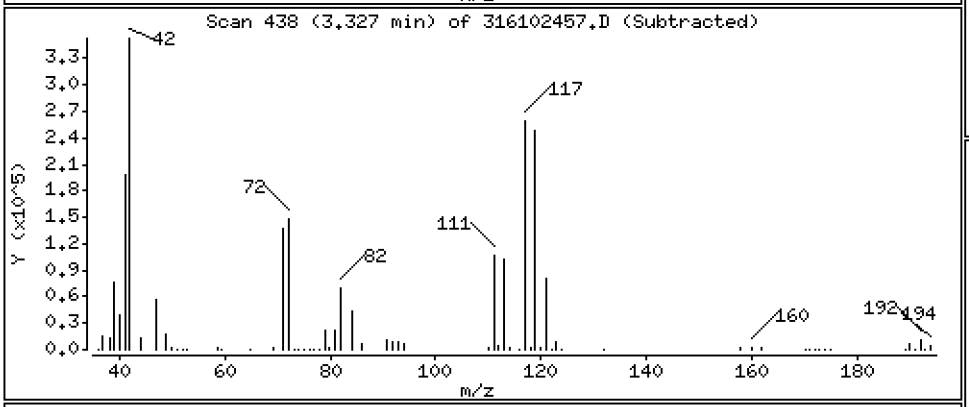
Sample Info: 1237;;1;1;4;;;

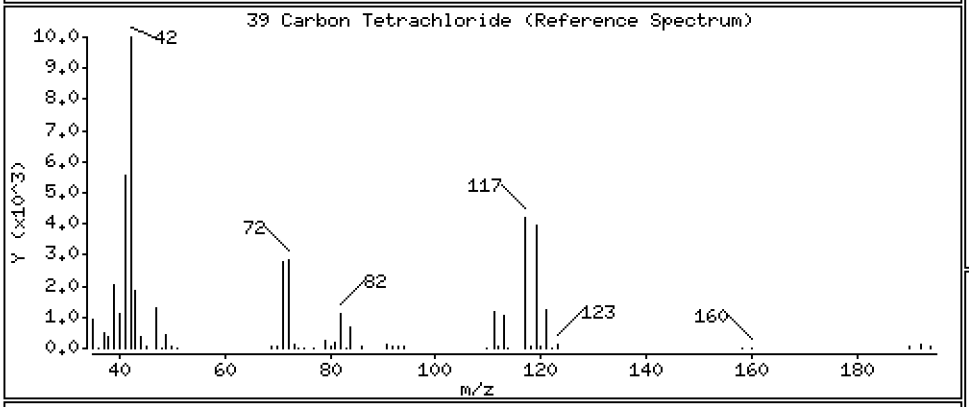
Purge Volume: 5.0 Operator: CJG

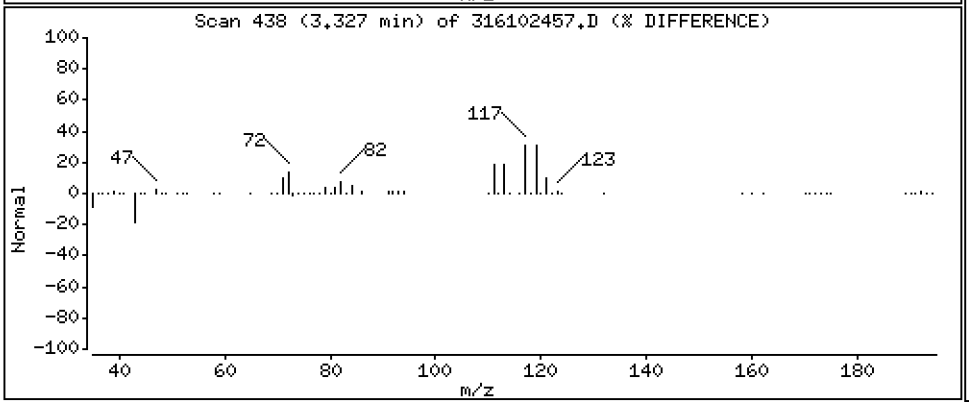
Column phase: DB-VRX Column diameter: 0.25

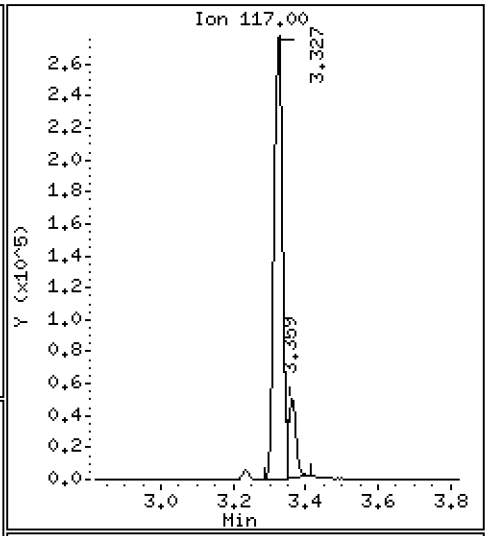
39 Carbon Tetrachloride Concentration: 49.1660 ug/L

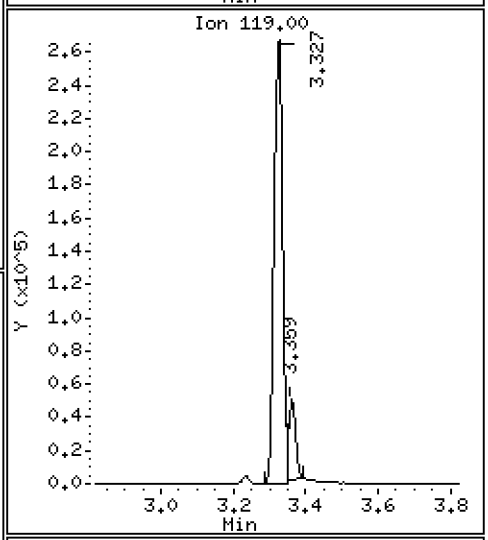


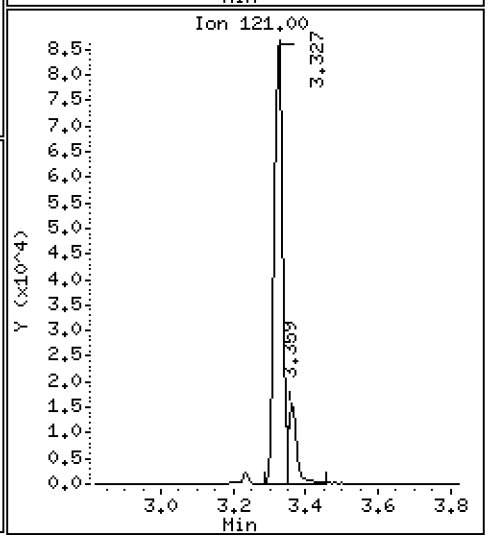












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 48

Date : 25-OCT-2016 00:52

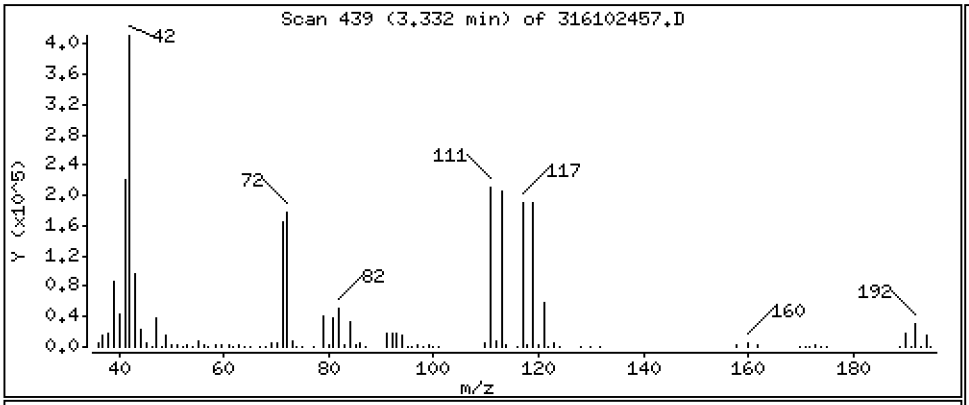
Client ID: Instrument: ms03.i

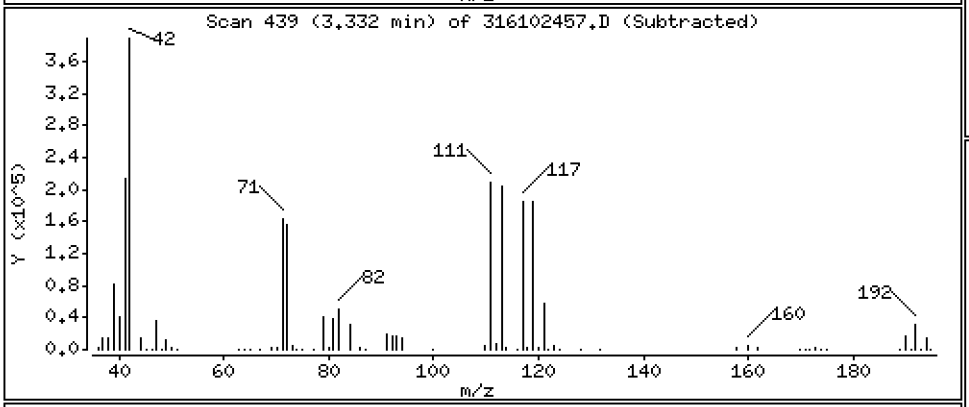
Sample Info: 1237;;1;1;4;;;

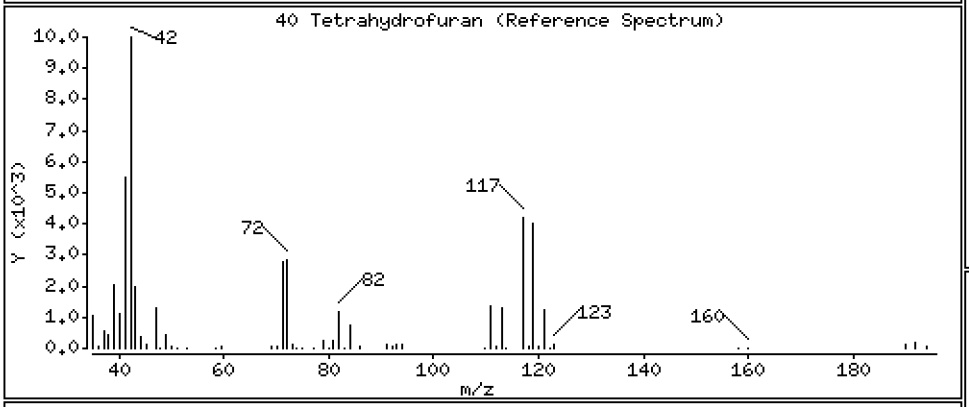
Purge Volume: 5.0 Operator: CJG

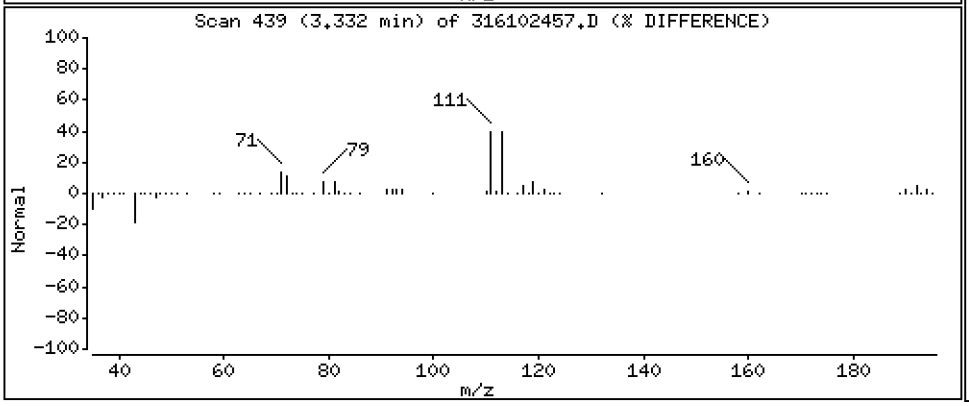
Column phase: DB-VRX Column diameter: 0.25

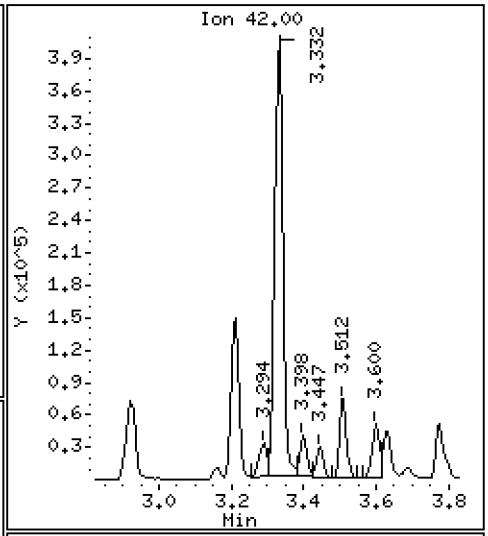
40 Tetrahydrofuran Concentration: 257.770 ug/L

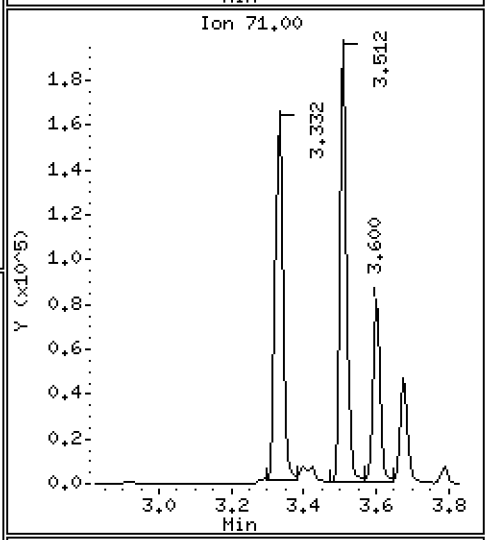


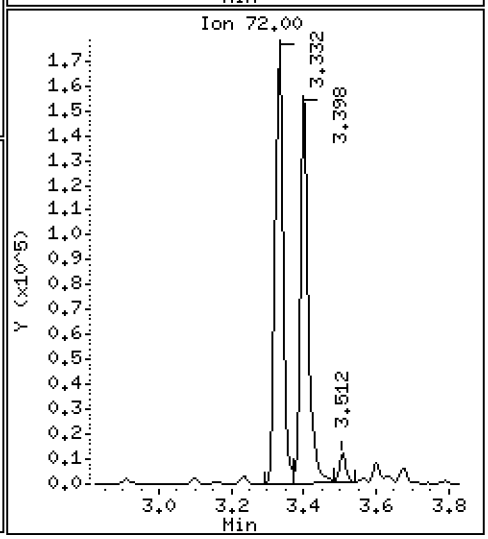












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 49

Date : 25-OCT-2016 00:52

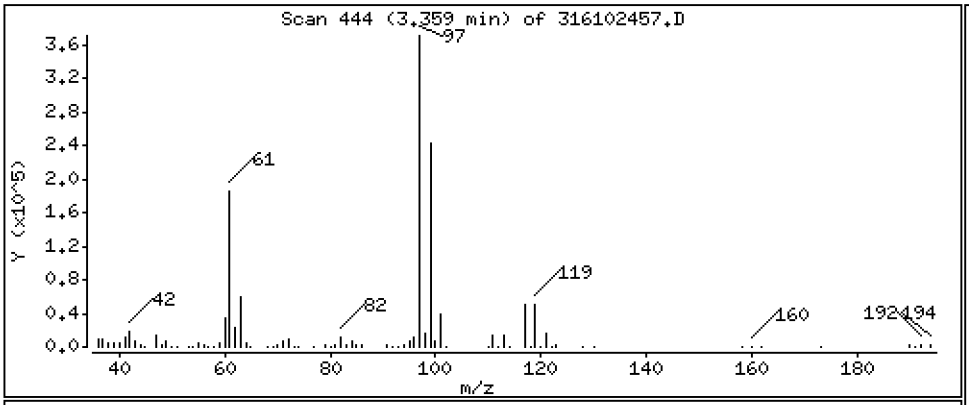
Client ID: Instrument: ms03.i

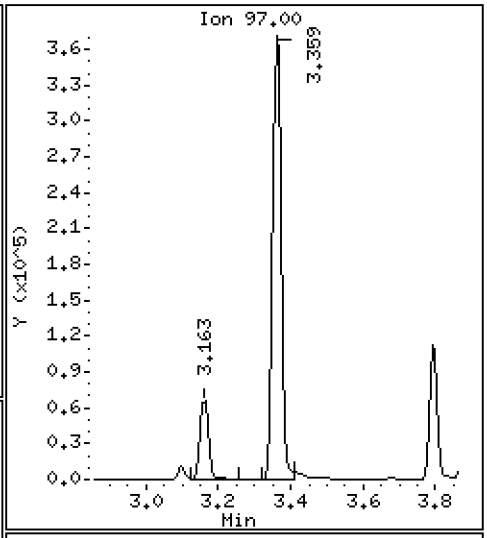
Sample Info: 1237;;1;1;4;;;

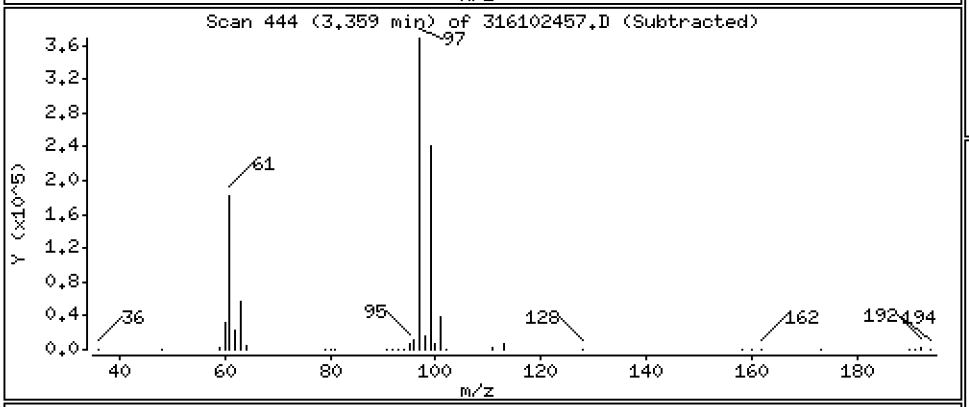
Purge Volume: 5.0 Operator: CJG

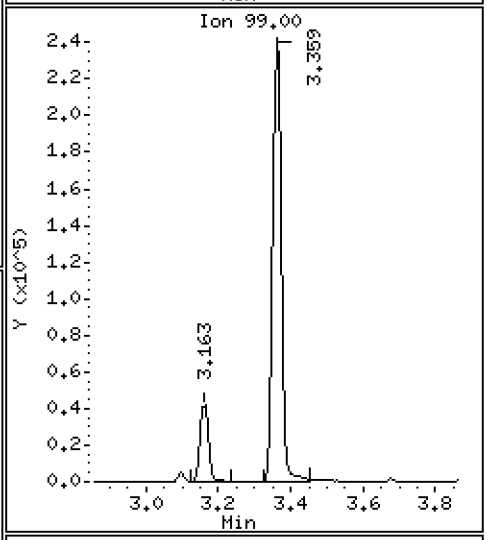
Column phase: DB-VRX Column diameter: 0.25

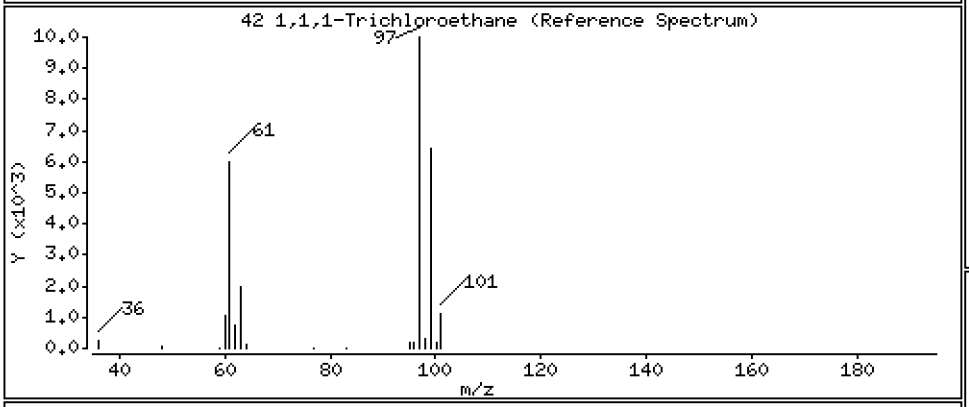
42 1,1,1-Trichloroethane Concentration: 48.5141 ug/L

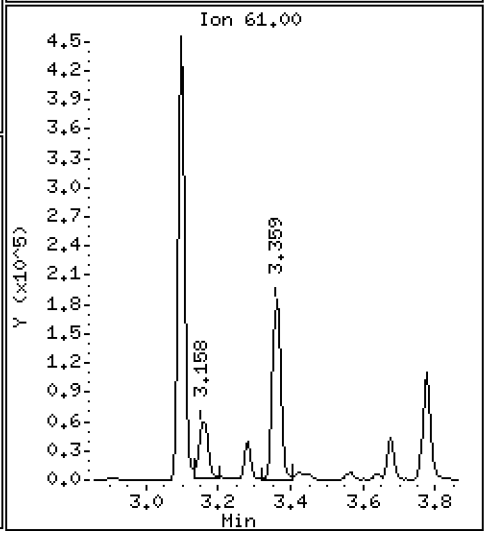


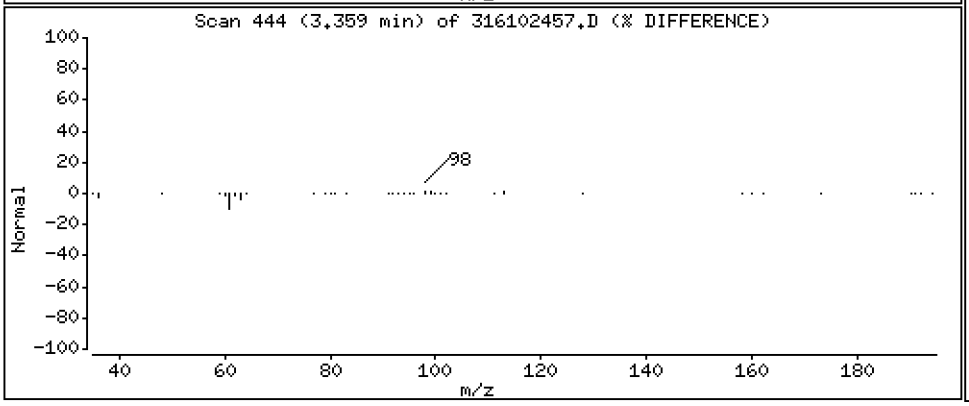












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 50

Date : 25-OCT-2016 00:52

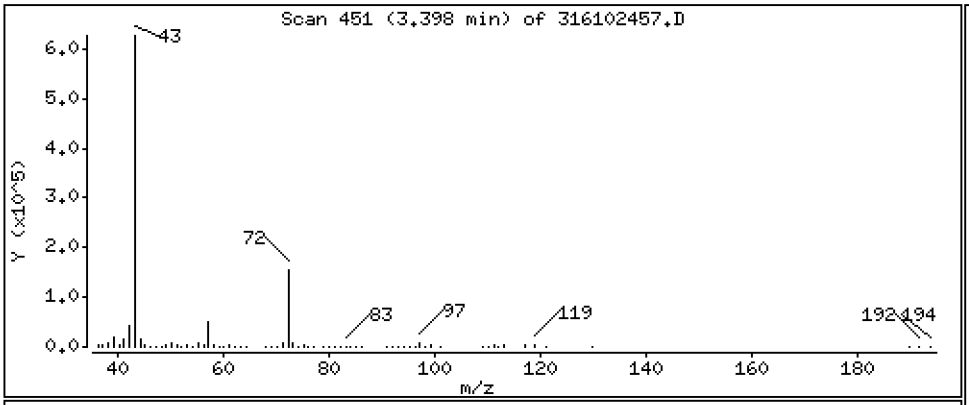
Client ID: Instrument: ms03.i

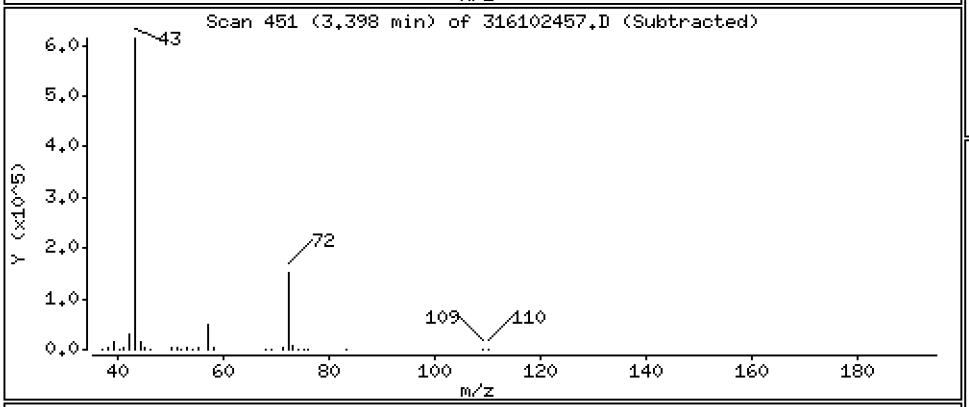
Sample Info: 1237;;1;1;4;;;

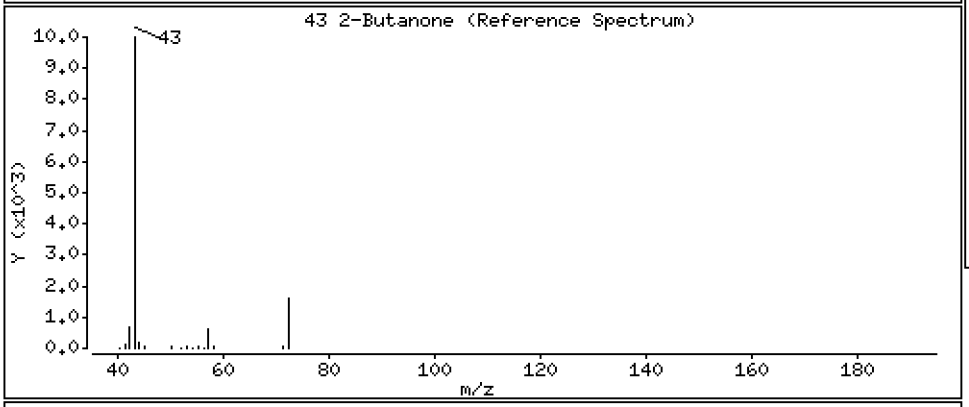
Purge Volume: 5.0 Operator: CJG

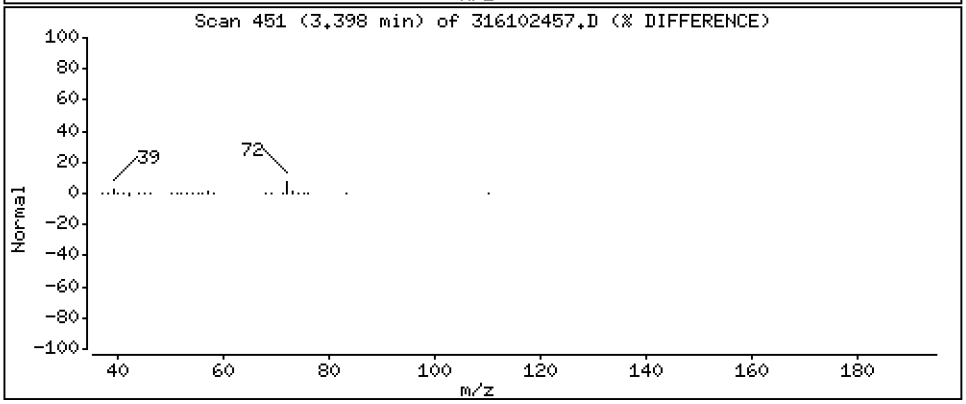
Column phase: DB-VRX Column diameter: 0.25

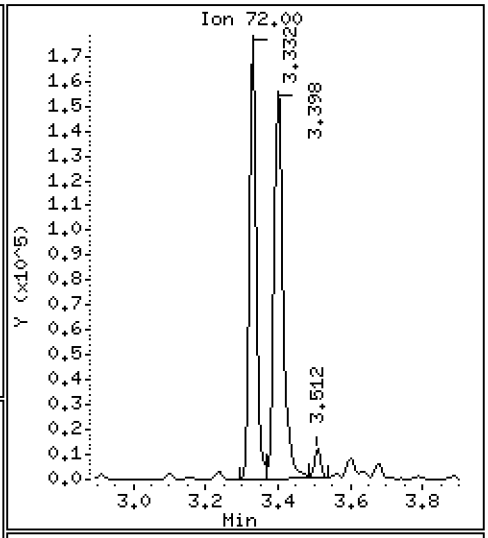
43 2-Butanone Concentration: 259.022 ug/L

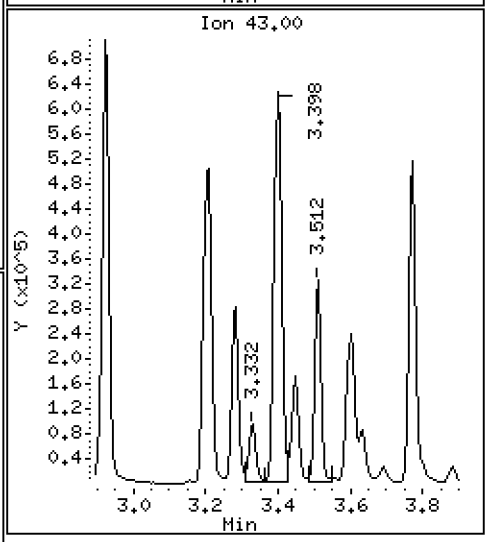












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 51

Date : 25-OCT-2016 00:52

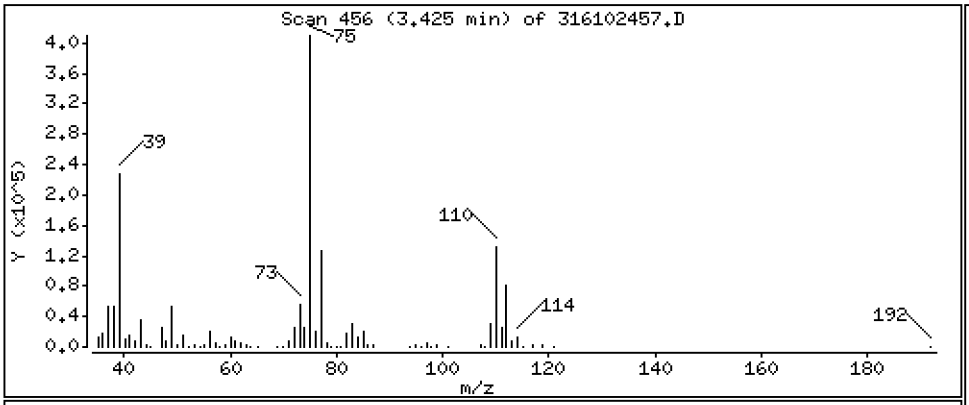
Client ID: Instrument: ms03.i

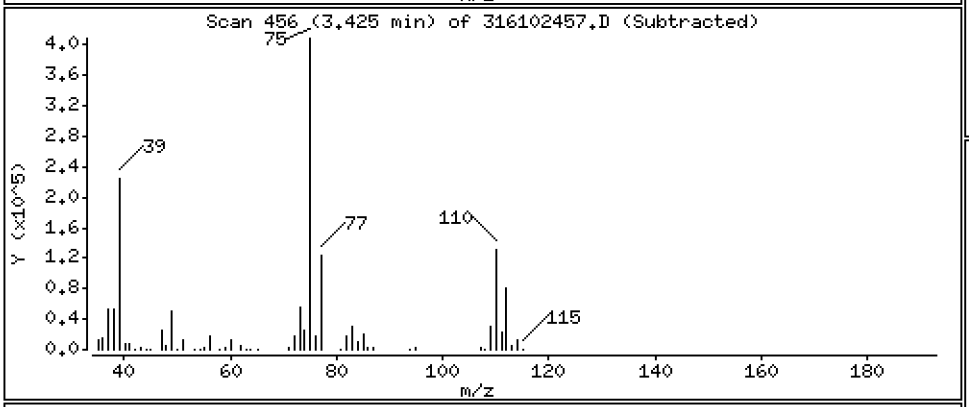
Sample Info: 1237;;1;1;4;;;

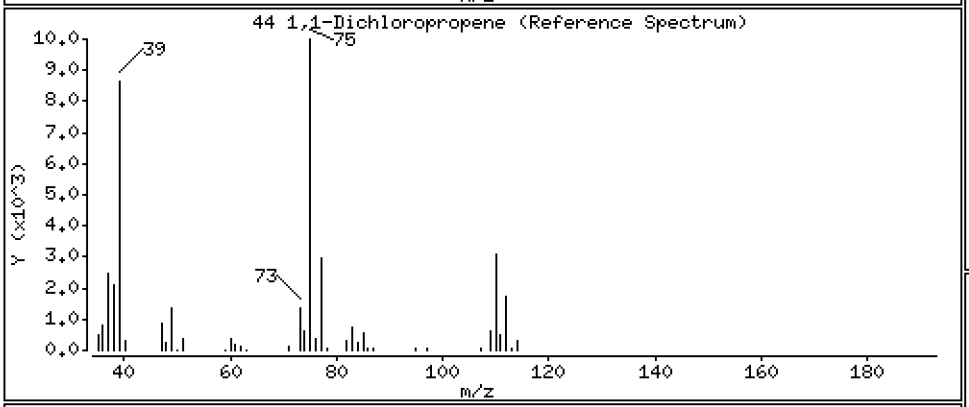
Purge Volume: 5.0 Operator: CJG

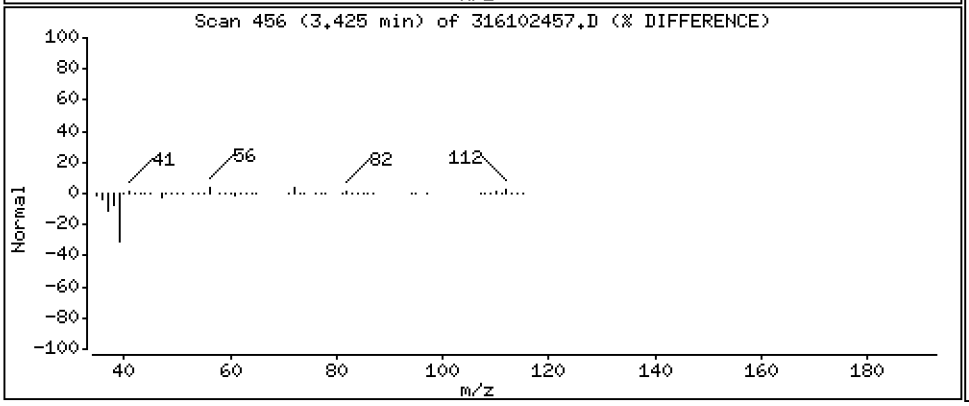
Column phase: DB-VRX Column diameter: 0.25

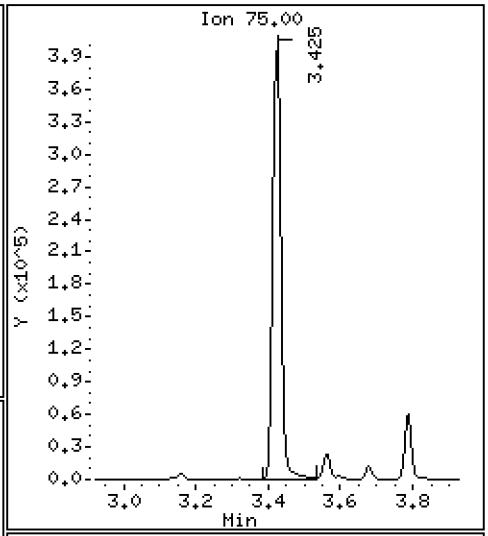
44 1,1-Dichloropropene Concentration: 49.6954 ug/L

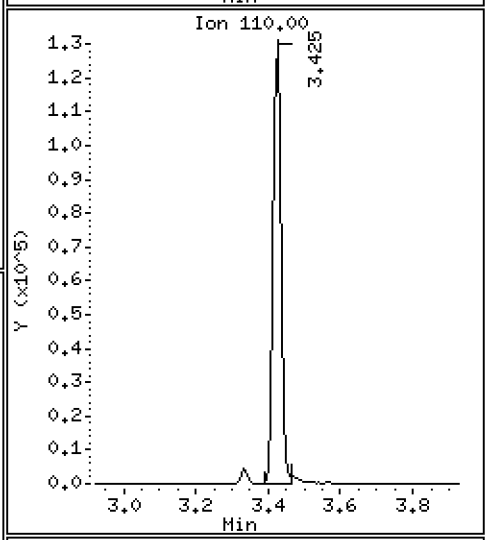


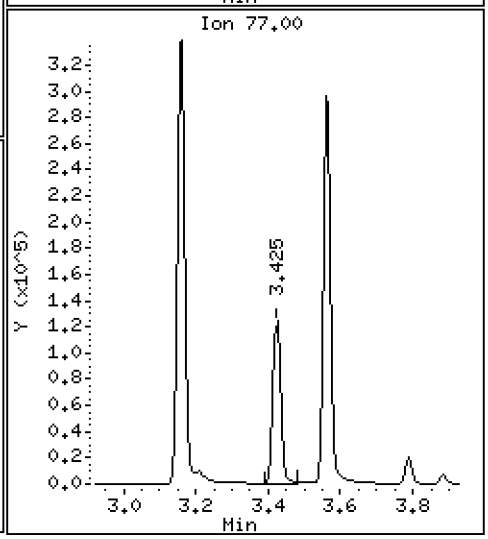












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 52

Date : 25-OCT-2016 00:52

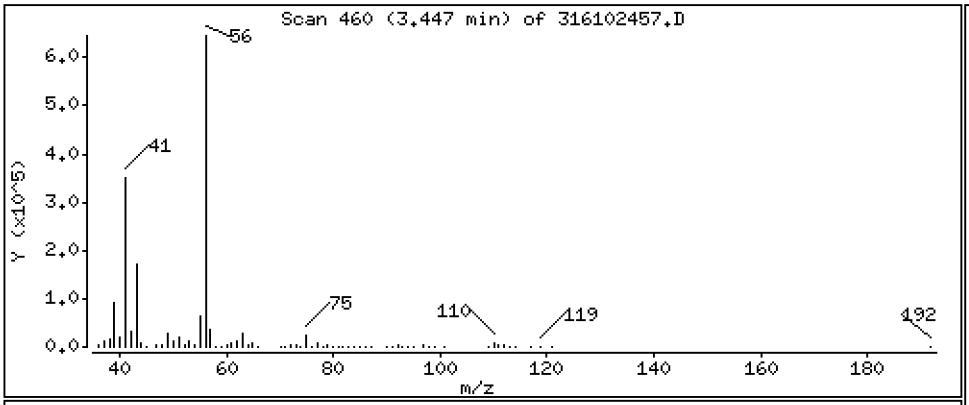
Client ID: Instrument: ms03.i

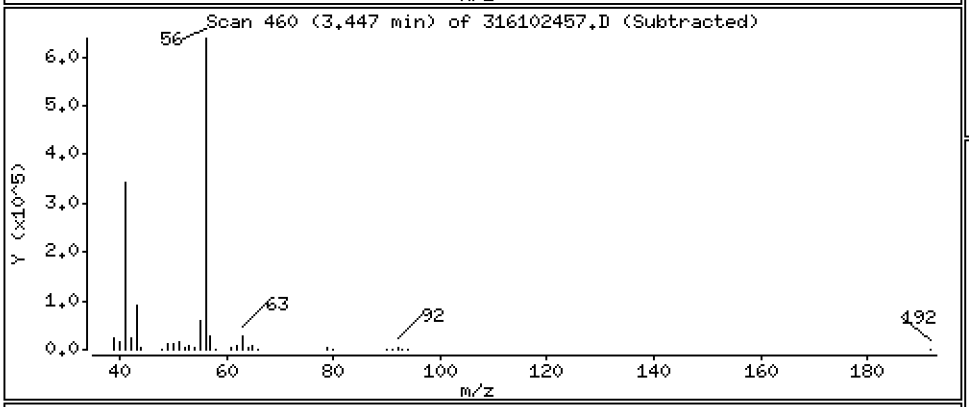
Sample Info: 1237;;1;1;4;;;

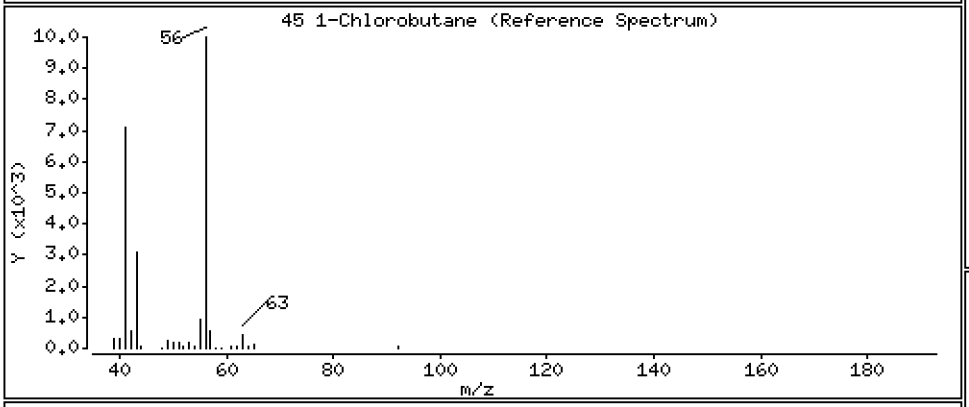
Purge Volume: 5.0 Operator: CJG

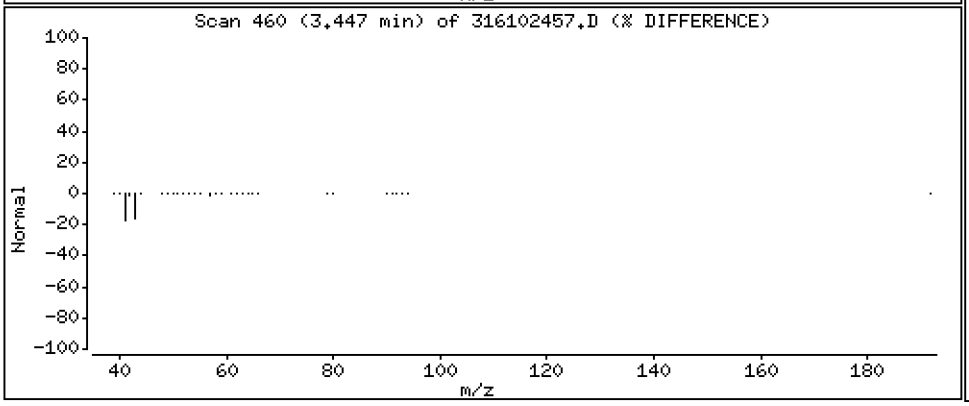
Column phase: DB-VRX Column diameter: 0.25

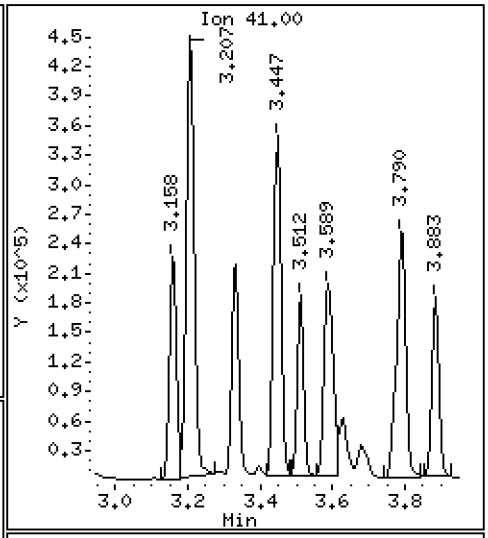
45 1-Chlorobutane Concentration: 49.6444 ug/L

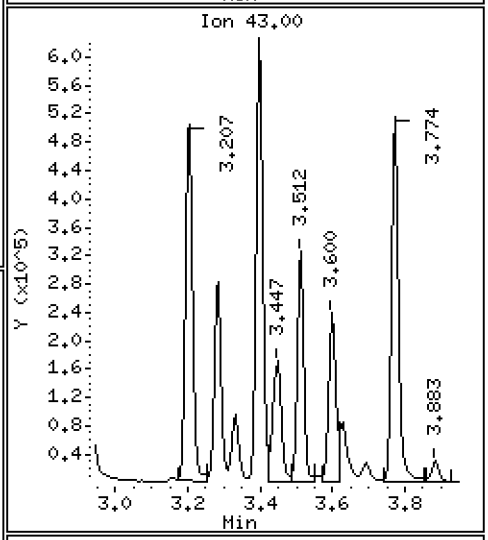


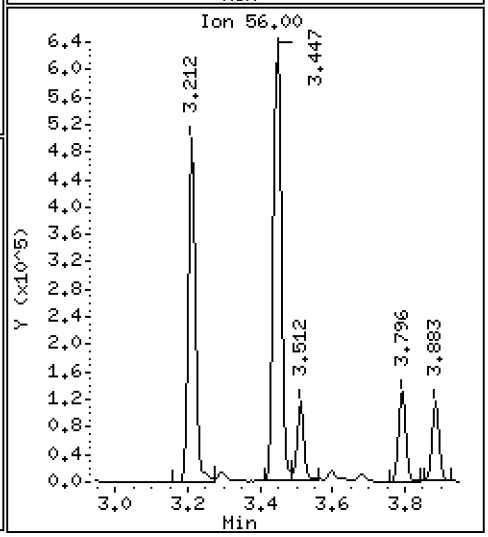












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 53

Date : 25-OCT-2016 00:52

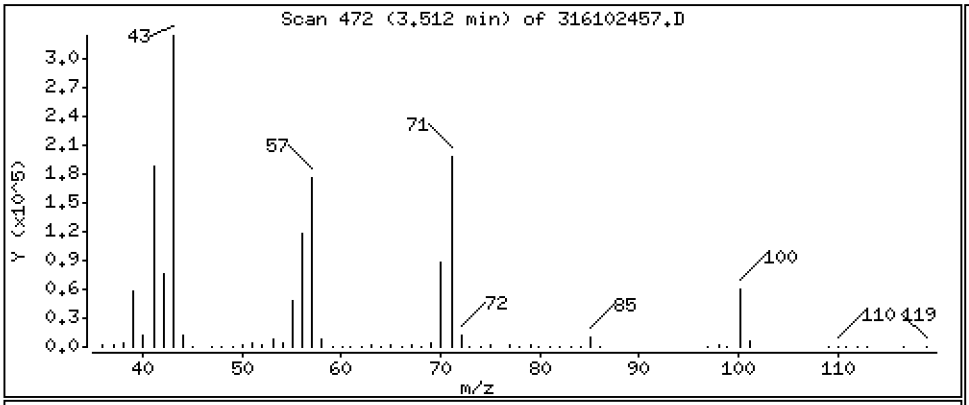
Client ID: Instrument: ms03.i

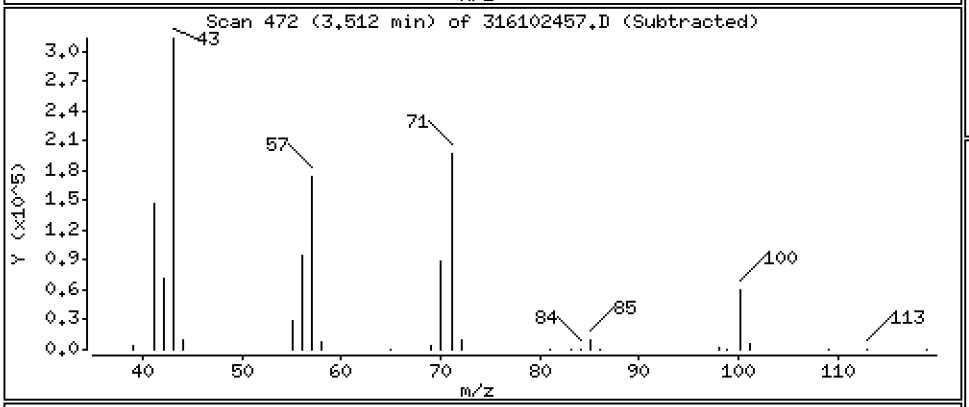
Sample Info: 1237;;1;1;4;;;

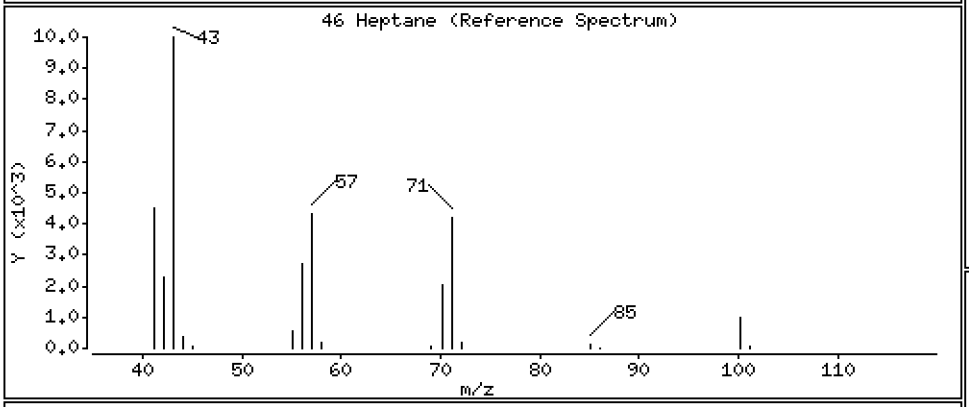
Purge Volume: 5.0 Operator: CJG

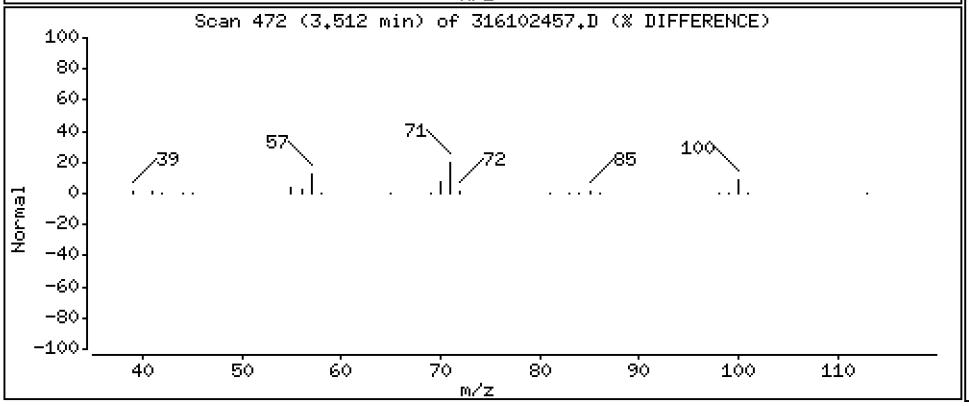
Column phase: DB-VRX Column diameter: 0.25

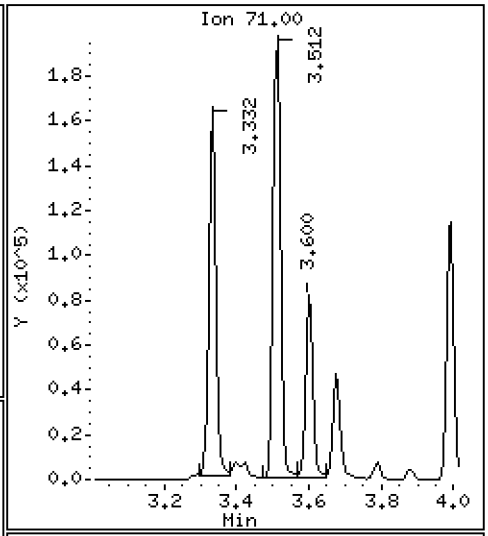
46 Heptane Concentration: 46.9197 ug/L

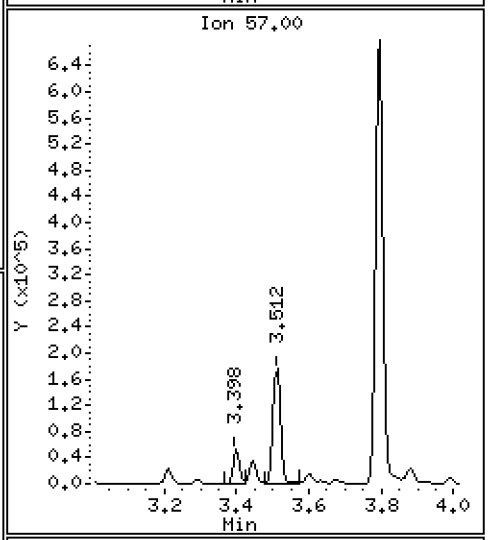


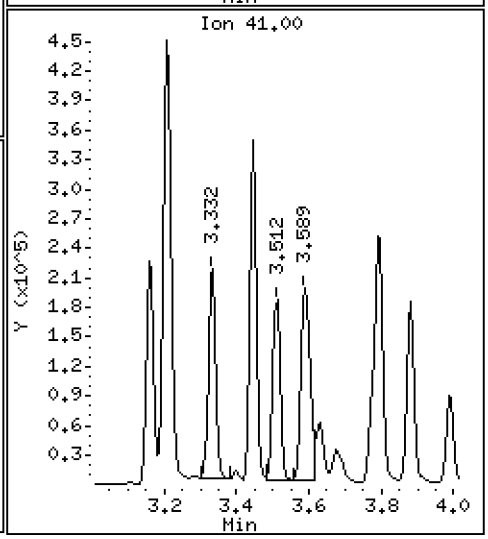












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 54

Date : 25-OCT-2016 00:52

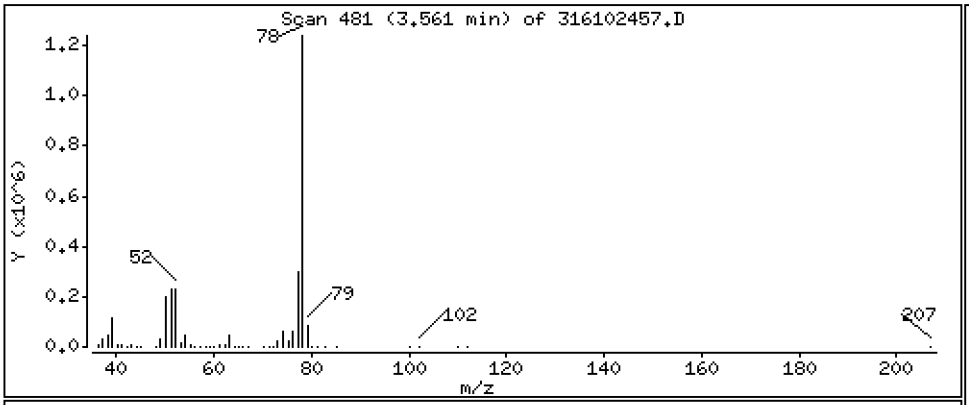
Client ID: Instrument: ms03.i

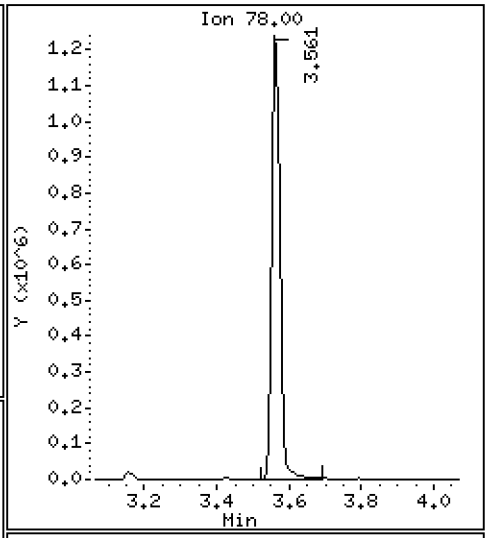
Sample Info: 1237;;1;1;4;;;

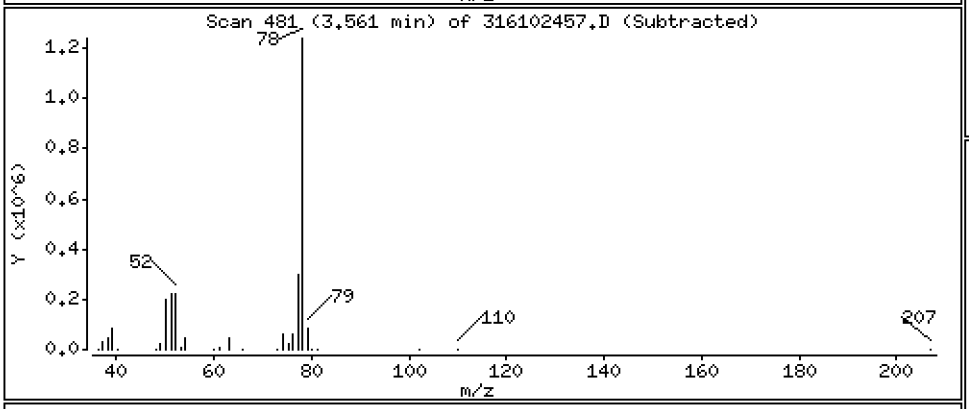
Purge Volume: 5.0 Operator: CJG

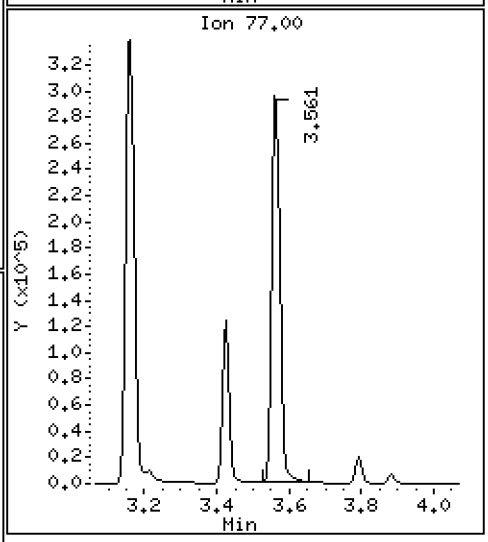
Column phase: DB-VRX Column diameter: 0.25

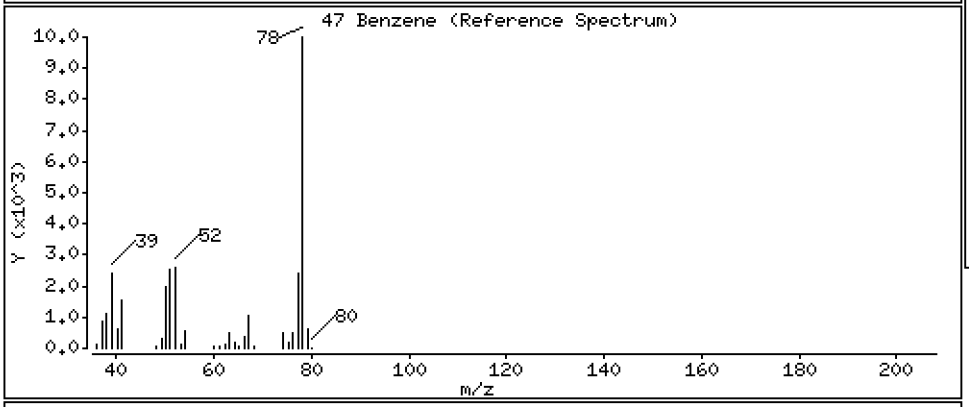
47 Benzene Concentration: 49.9488 ug/L

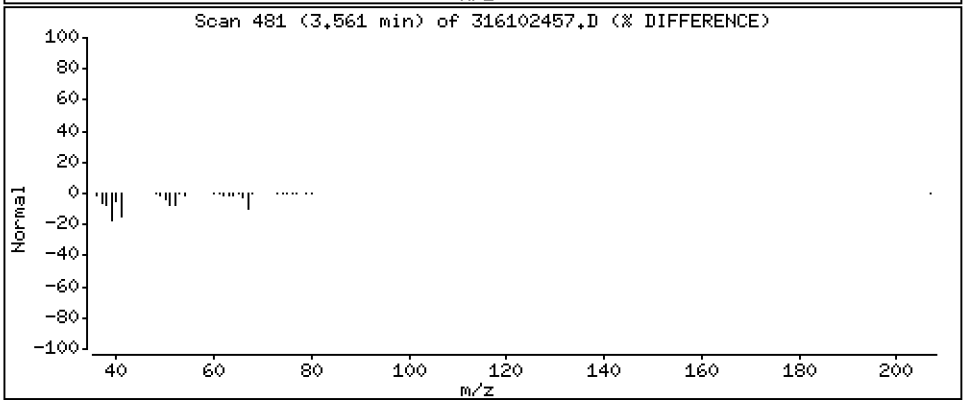












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 55

Date : 25-OCT-2016 00:52

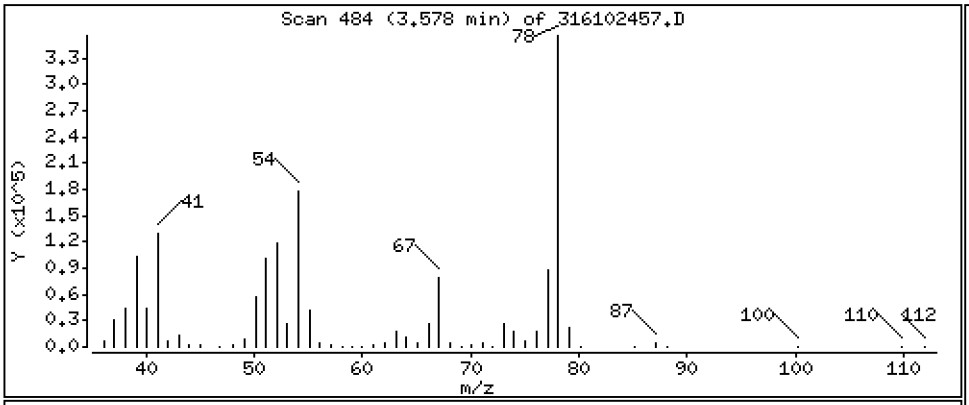
Client ID: Instrument: ms03.i

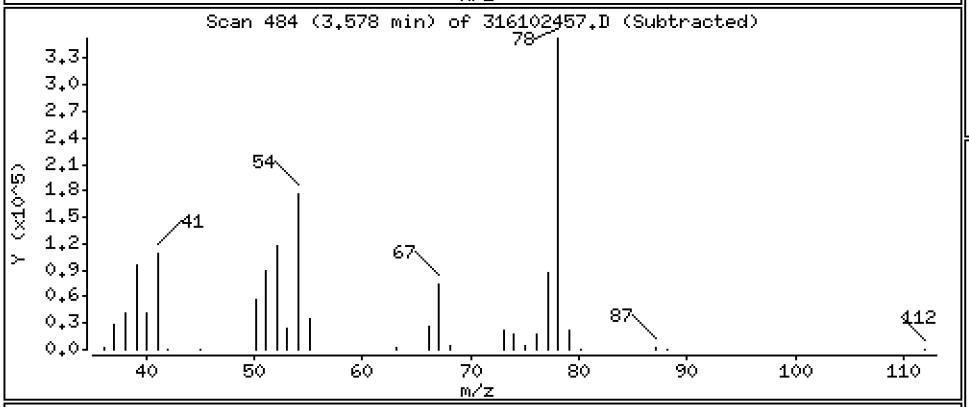
Sample Info: 1237;;1;1;4;;;

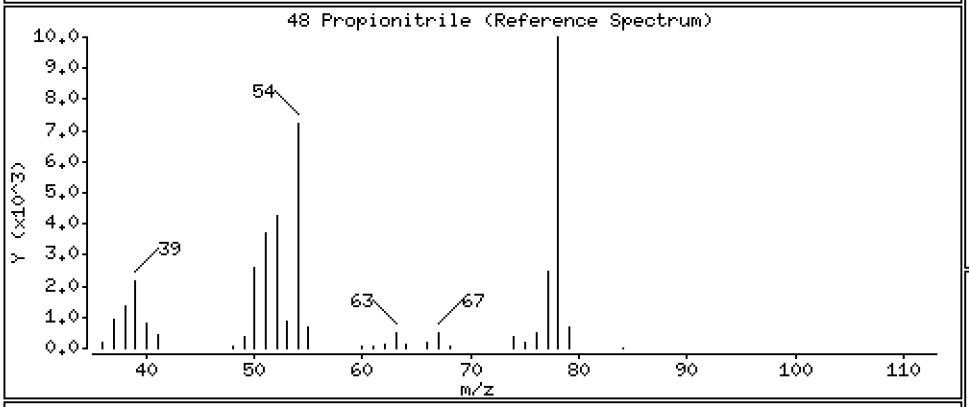
Purge Volume: 5.0 Operator: CJG

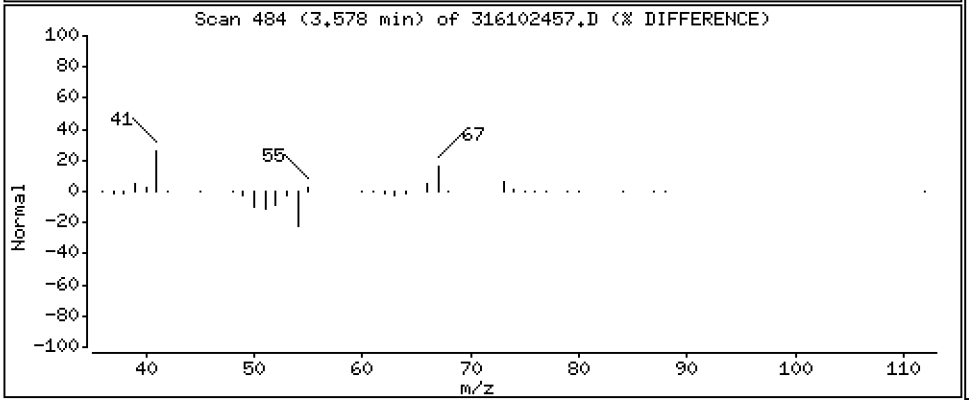
Column phase: DB-VRX Column diameter: 0.25

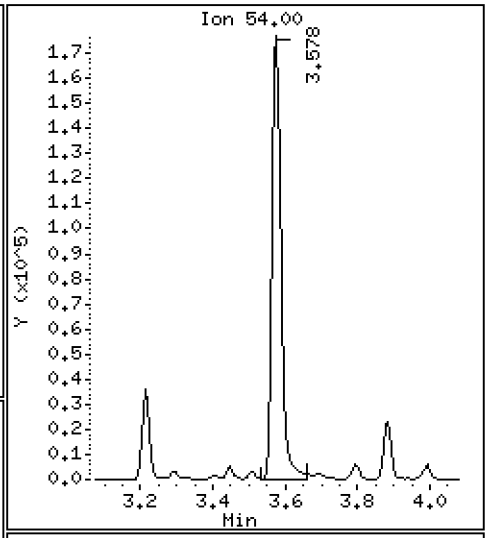
48 Propionitrile Concentration: 257.569 ug/L

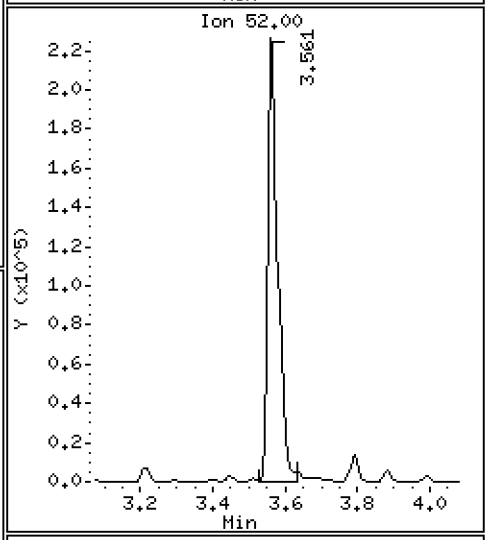


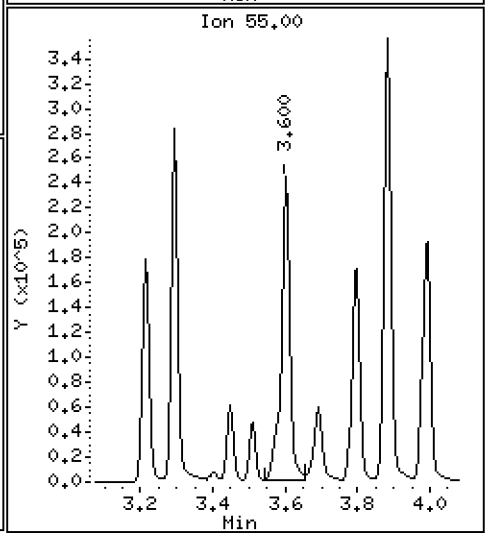












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 56

Date : 25-OCT-2016 00:52

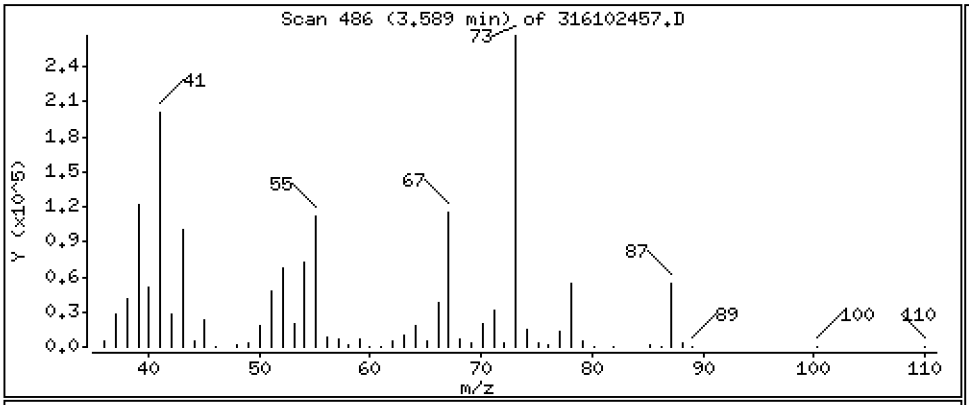
Client ID: Instrument: ms03.i

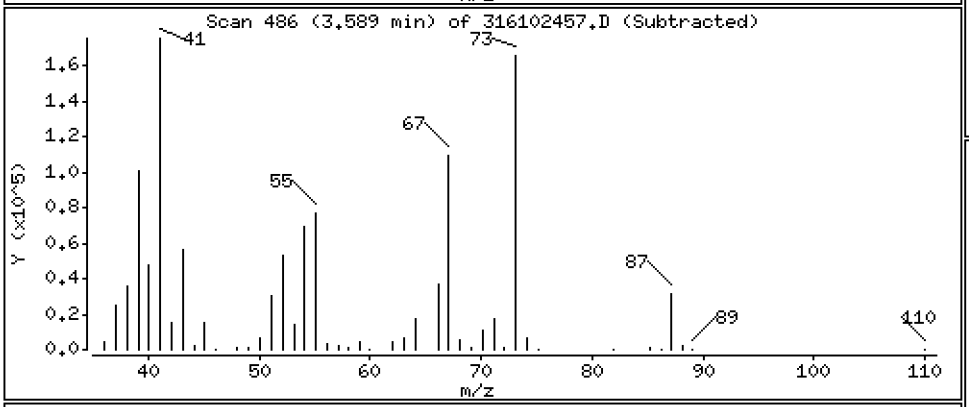
Sample Info: 1237;;1;1;4;;;

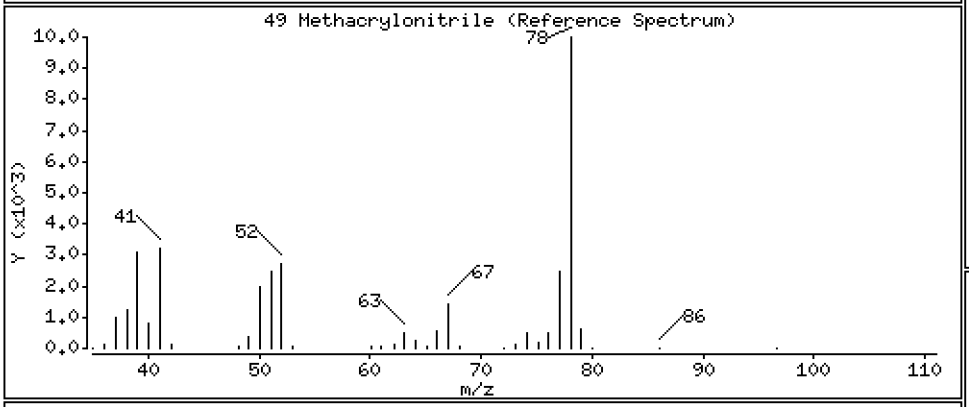
Purge Volume: 5.0 Operator: CJG

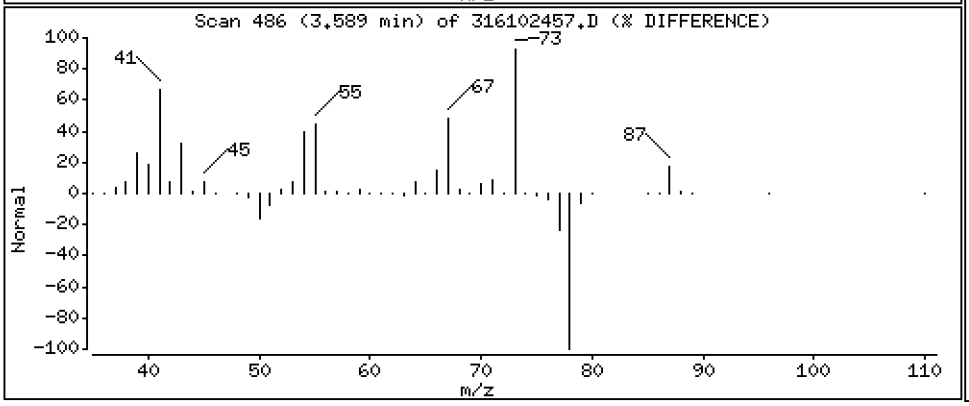
Column phase: DB-VRX Column diameter: 0.25

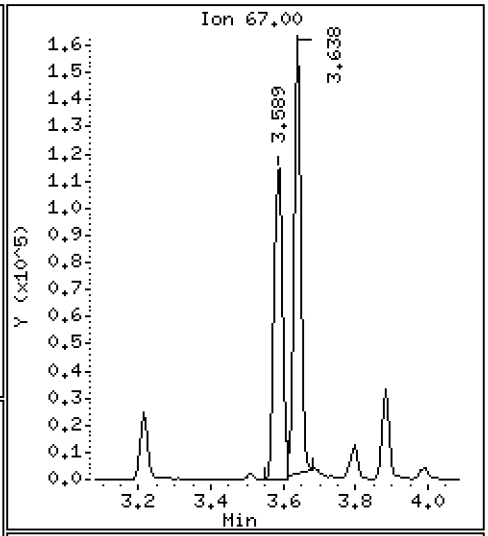
49 Methacrylonitrile Concentration: 51.2907 ug/L

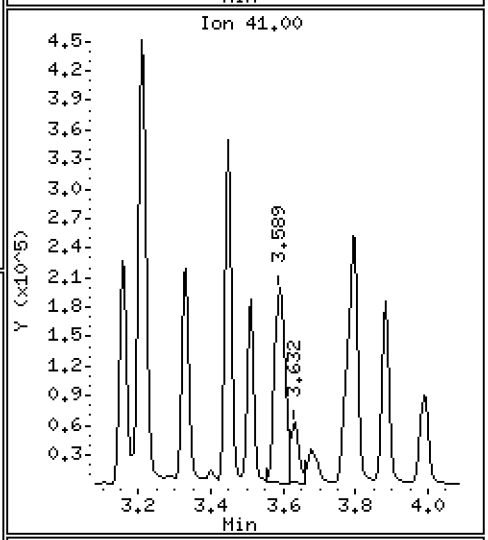


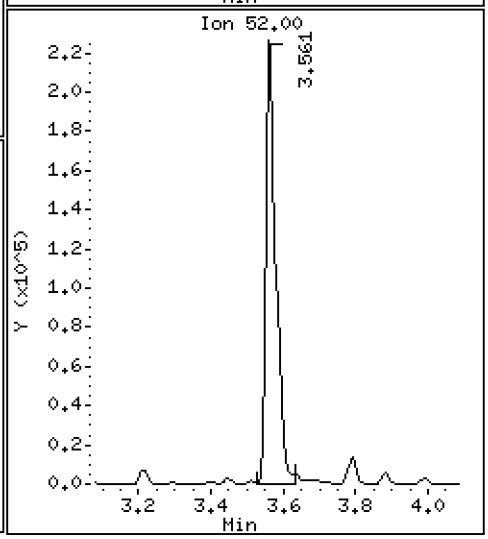












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 57

Date : 25-OCT-2016 00:52

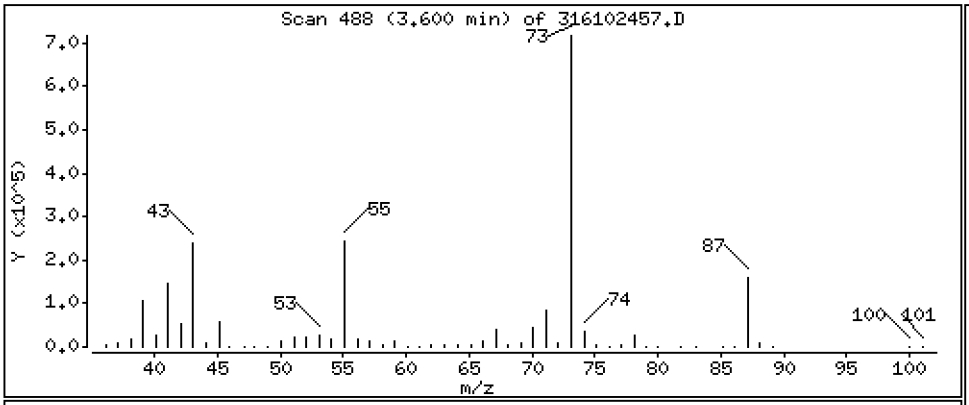
Client ID: Instrument: ms03.i

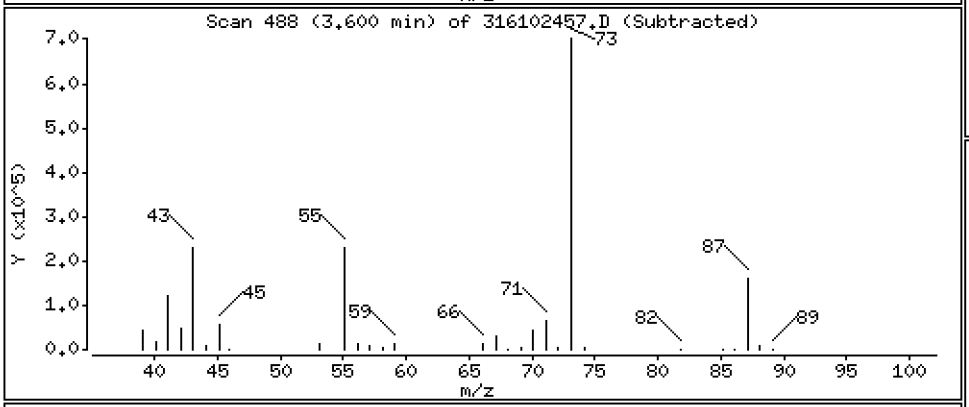
Sample Info: 1237;;1;1;4;;;

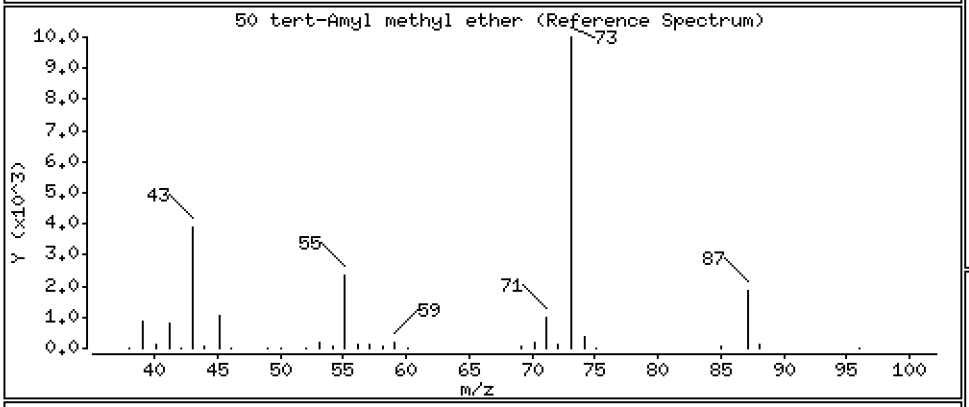
Purge Volume: 5.0 Operator: CJG

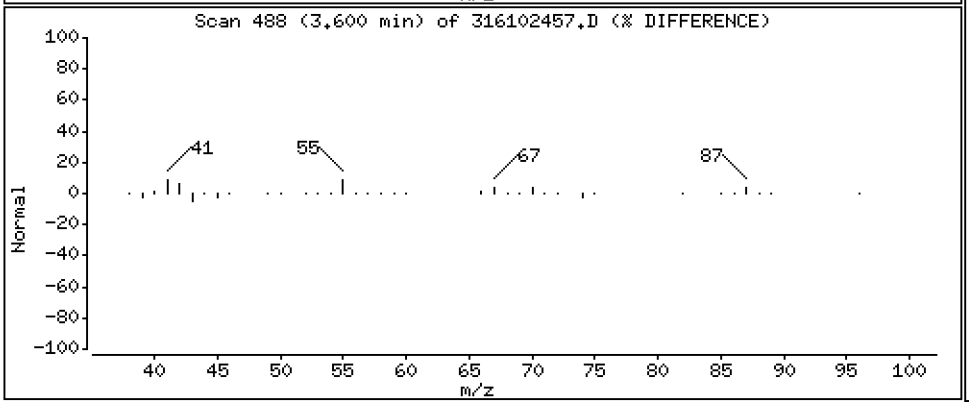
Column phase: DB-VRX Column diameter: 0.25

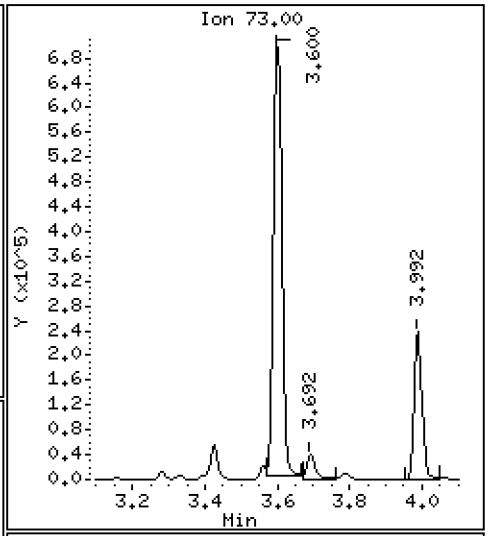
50 tert-Amyl methyl ether Concentration: 49.5983 ug/L

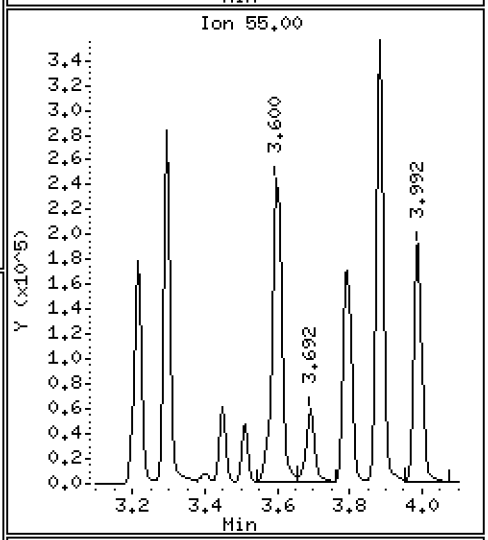


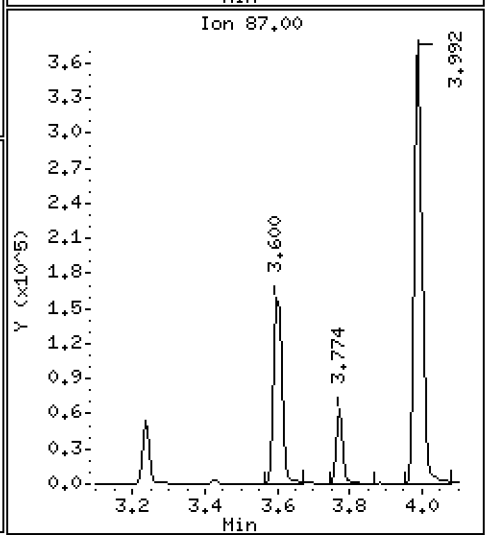












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 58

Date : 25-OCT-2016 00:52

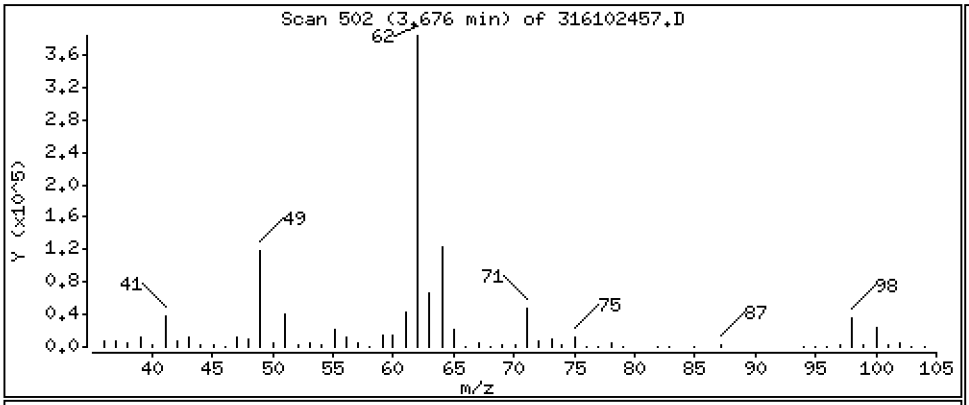
Client ID: Instrument: ms03.i

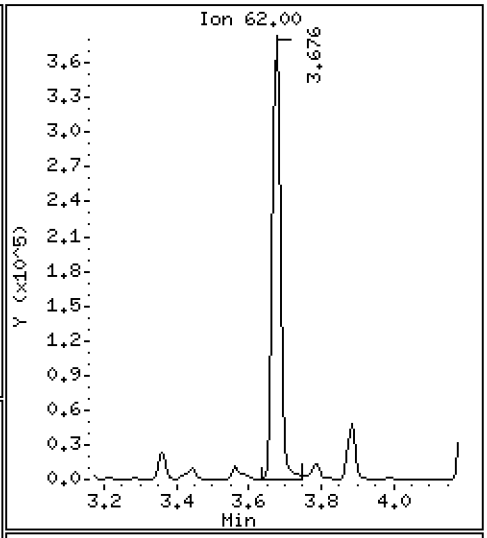
Sample Info: 1237;;1;1;4;;;

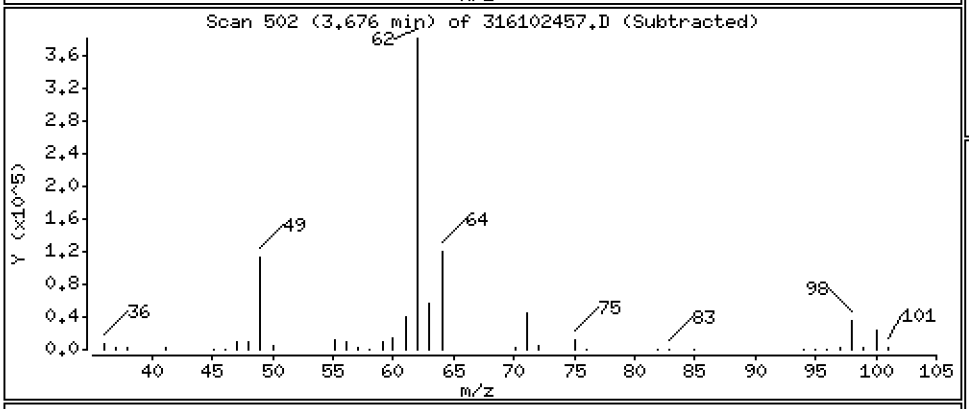
Purge Volume: 5.0 Operator: CJG

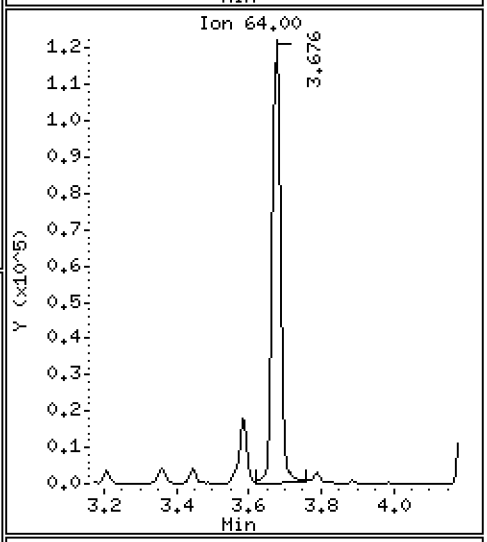
Column phase: DB-VRX Column diameter: 0.25

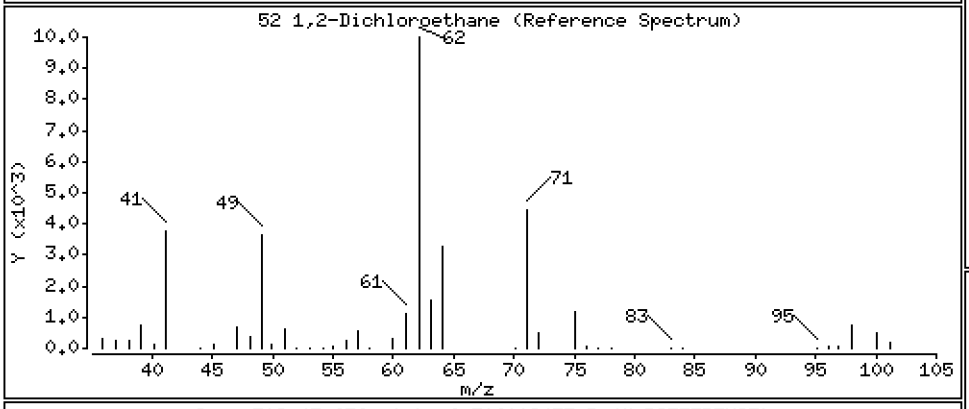
52 1,2-Dichloroethane Concentration: 50.0493 ug/L

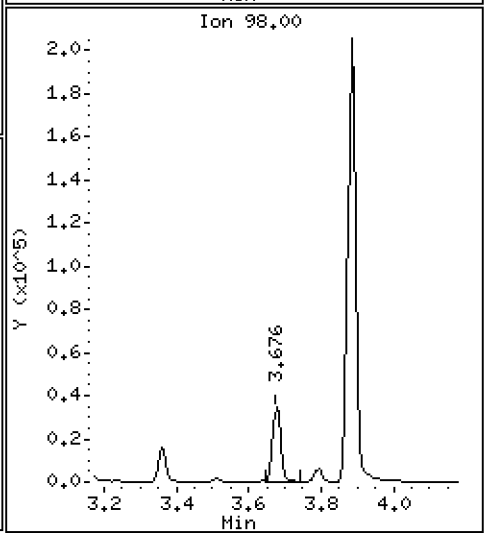


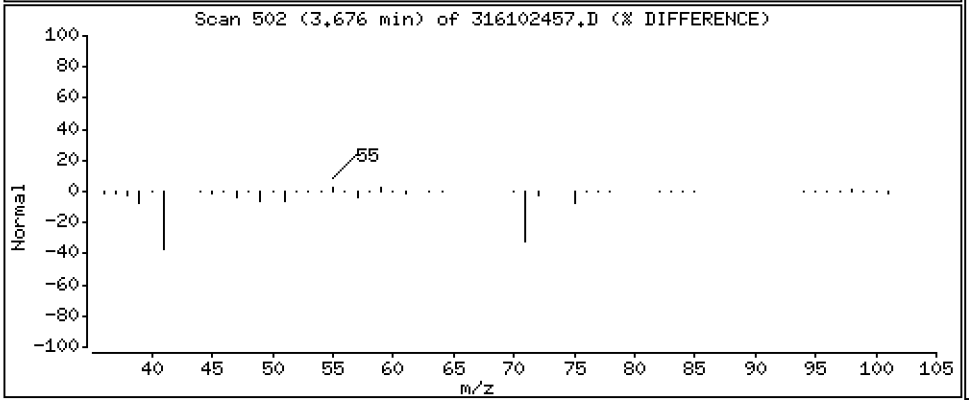












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 59

Date : 25-OCT-2016 00:52

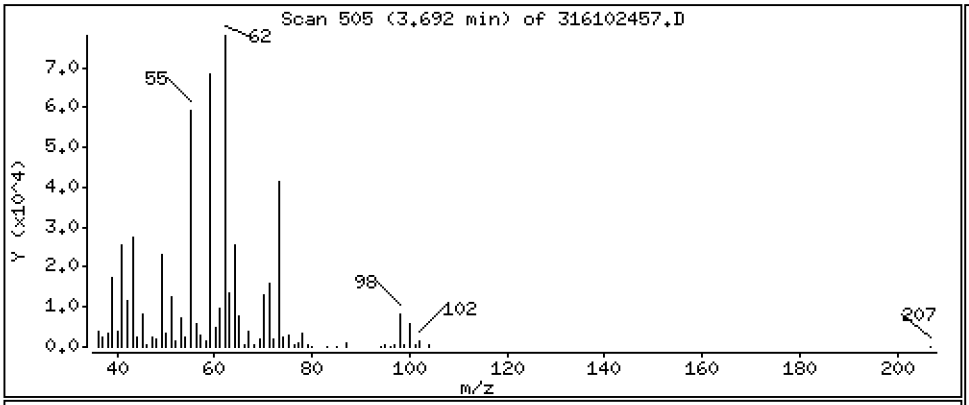
Client ID: Instrument: ms03.i

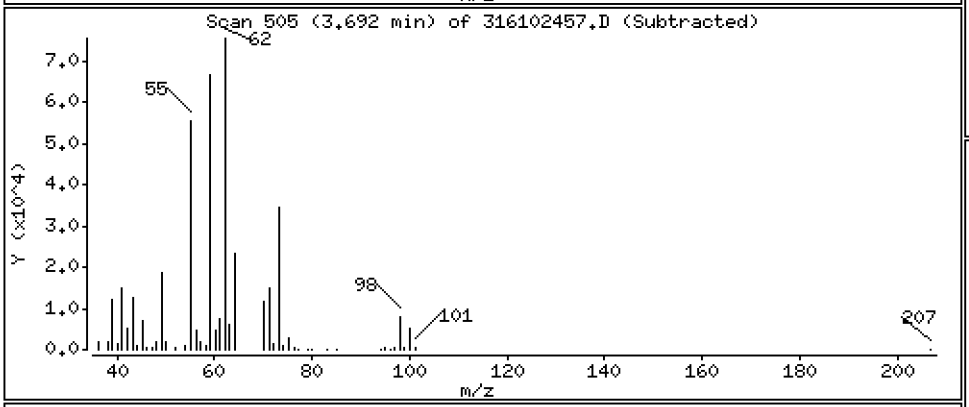
Sample Info: 1237;;1;1;4;;;

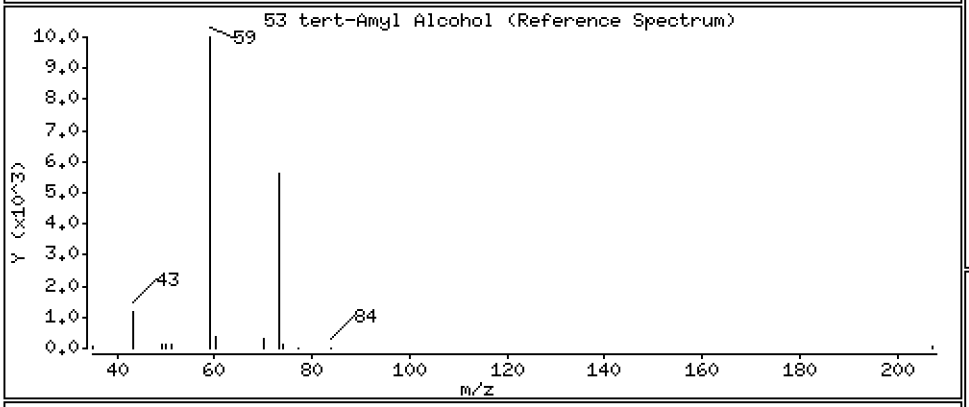
Purge Volume: 5.0 Operator: CJG

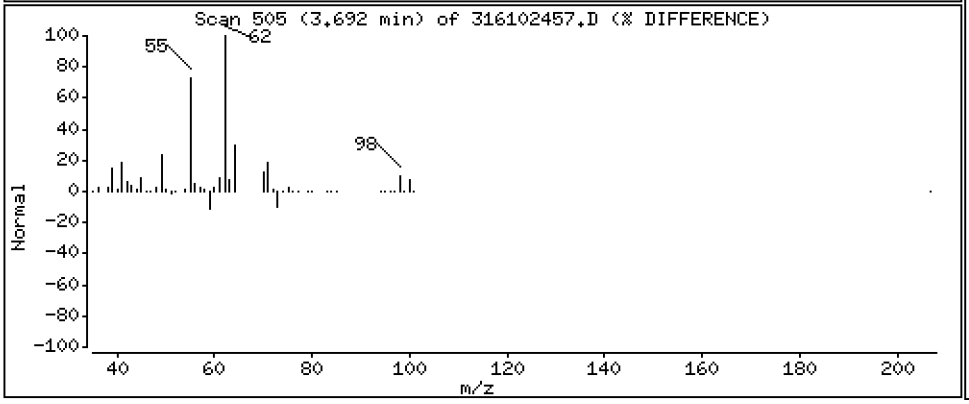
Column phase: DB-VRX Column diameter: 0.25

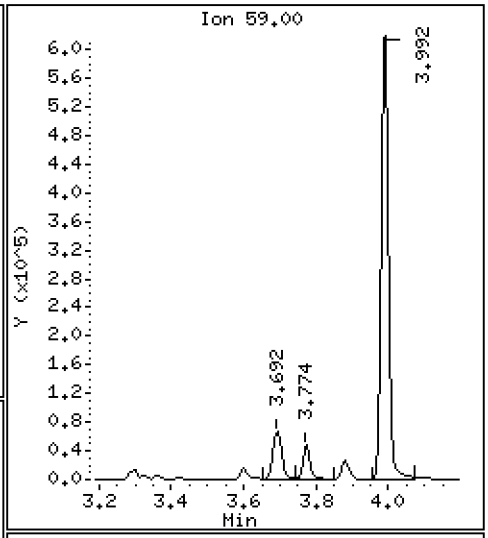
53 tert-Amyl Alcohol Concentration: 258.795 ug/L

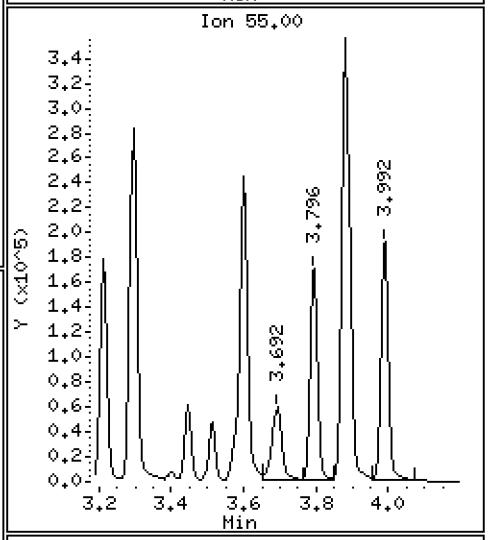


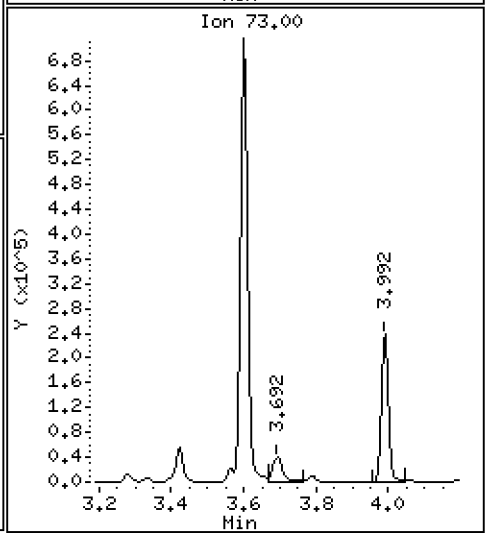












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 60

Date : 25-OCT-2016 00:52

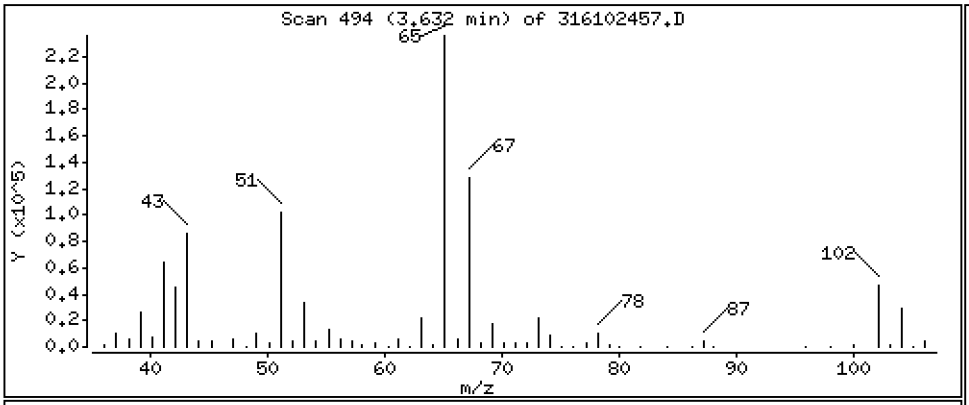
Client ID: Instrument: ms03.i

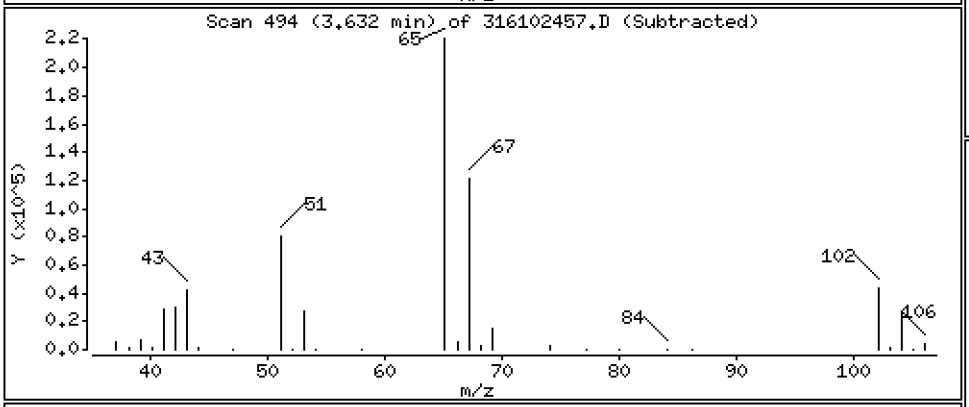
Sample Info: 1237;;1;1;4;;;

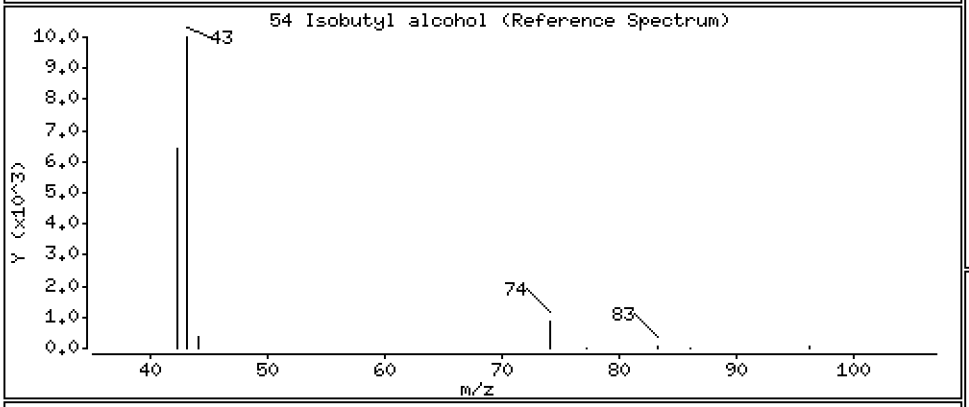
Purge Volume: 5.0 Operator: CJG

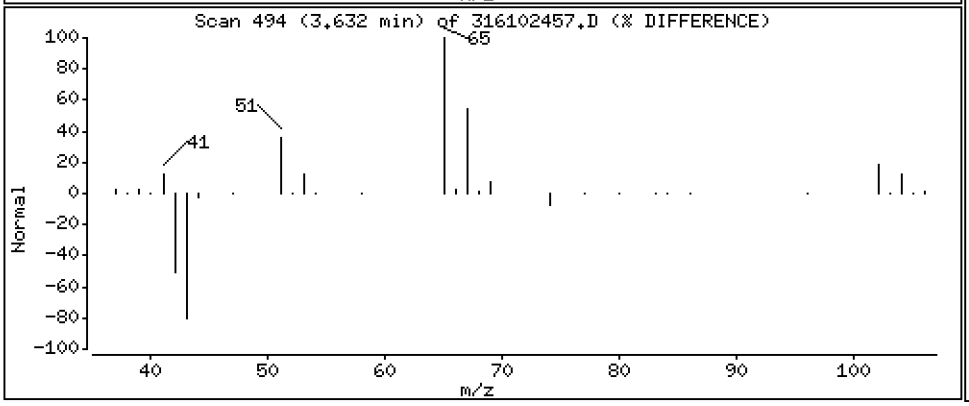
Column phase: DB-VRX Column diameter: 0.25

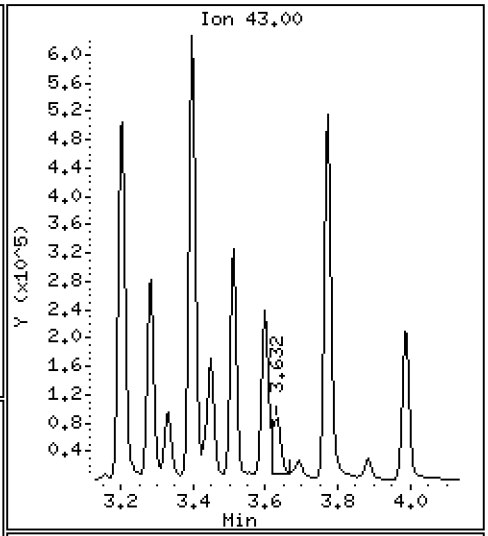
54 Isobutyl alcohol Concentration: 554.161 ug/L

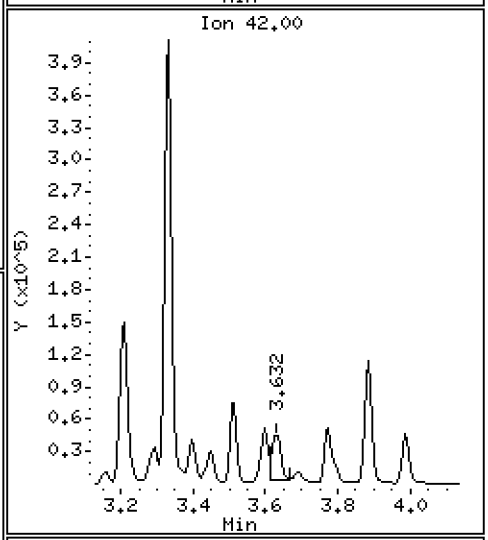


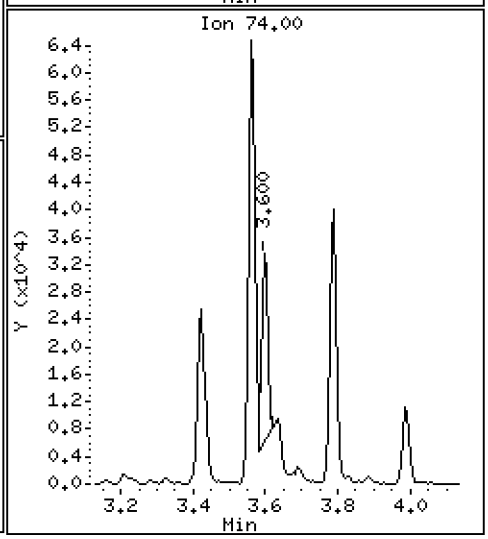












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 61

Date : 25-OCT-2016 00:52

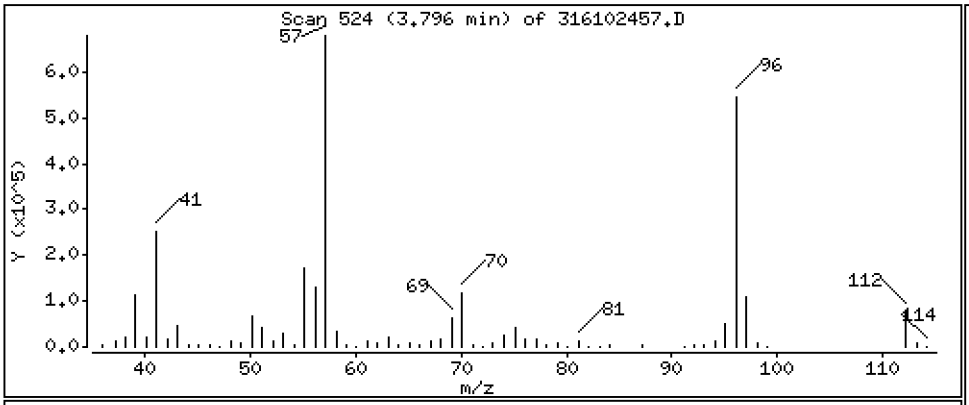
Client ID: Instrument: ms03.i

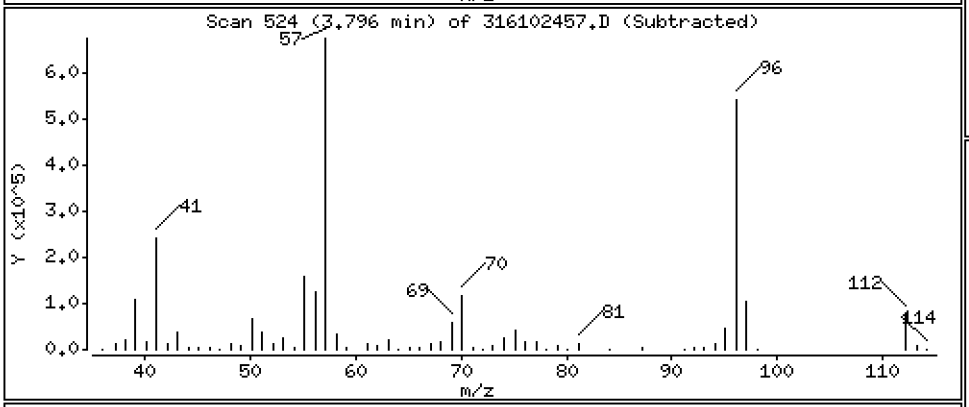
Sample Info: 1237;;1;1;4;;;

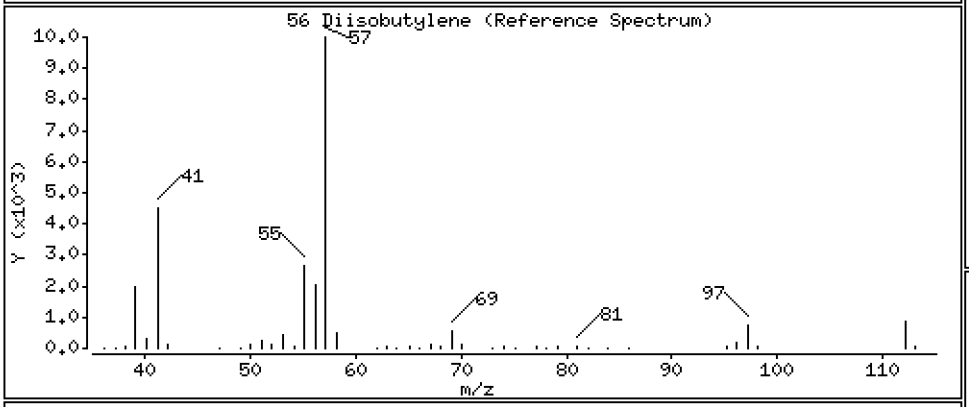
Purge Volume: 5.0 Operator: CJG

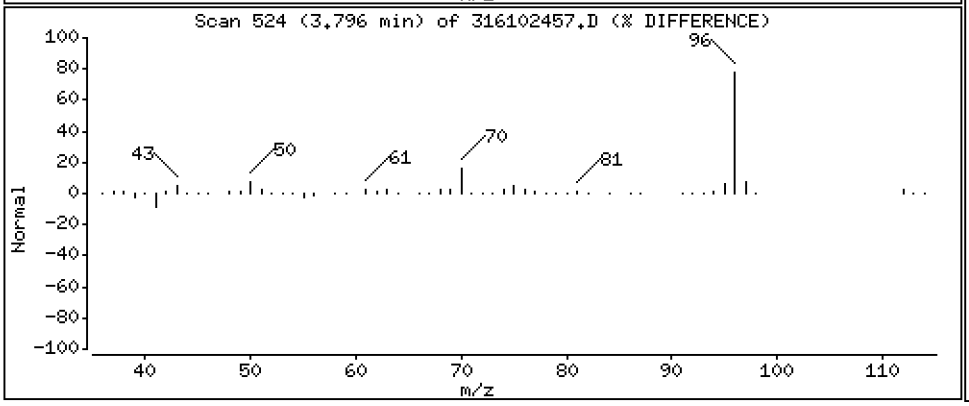
Column phase: DB-VRX Column diameter: 0.25

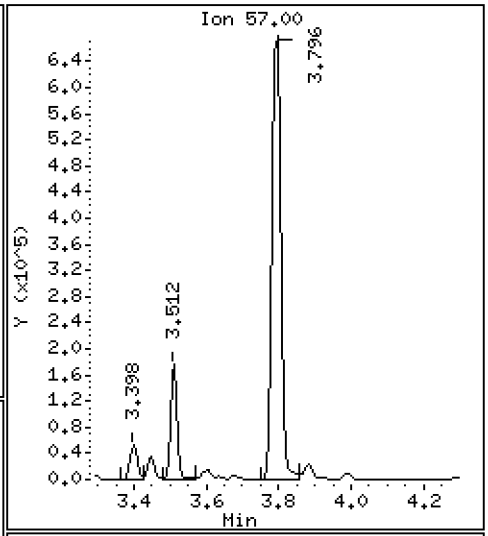
56 Diisobutylene Concentration: 48.1486 ug/L

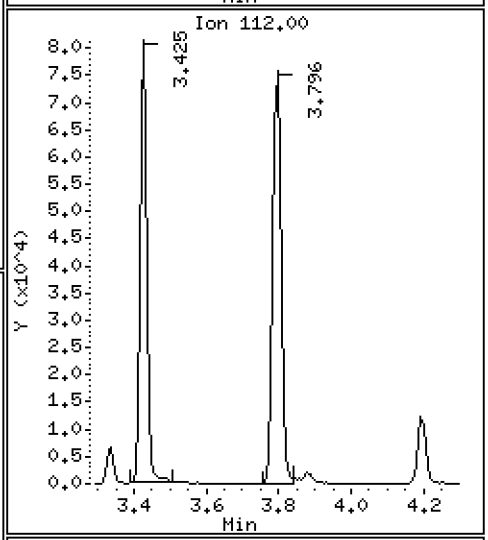


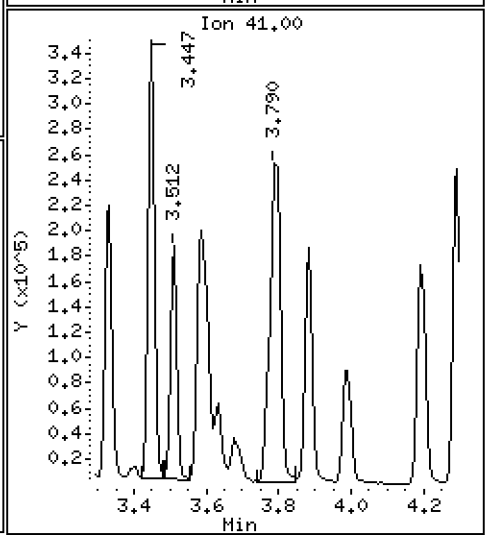












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 62

Date : 25-OCT-2016 00:52

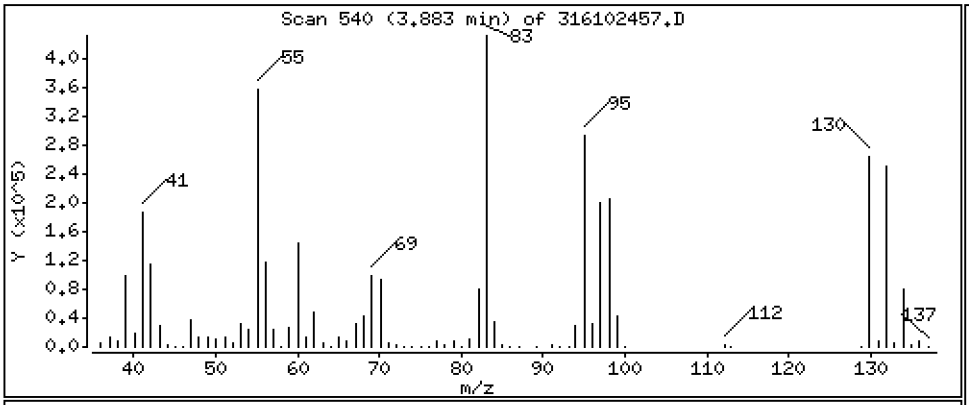
Client ID: Instrument: ms03.i

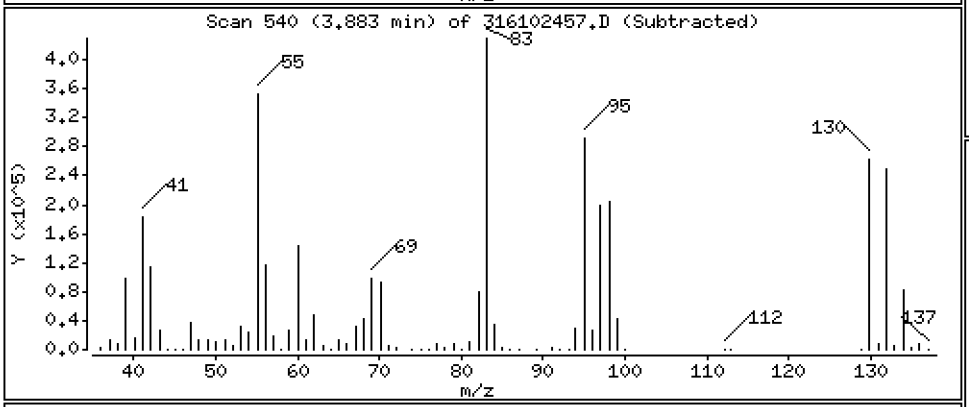
Sample Info: 1237;;1;1;4;;;

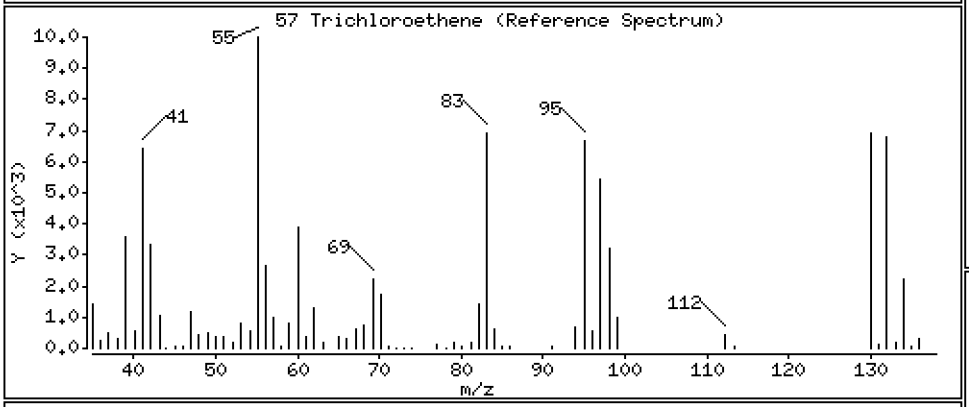
Purge Volume: 5.0 Operator: CJG

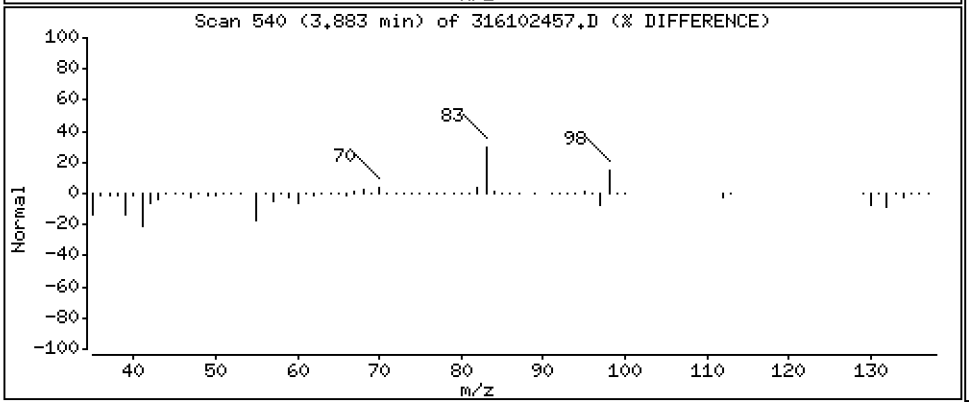
Column phase: DB-VRX Column diameter: 0.25

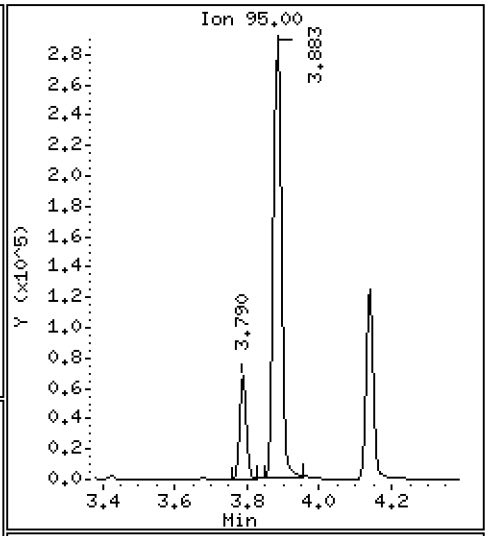
57 Trichloroethene Concentration: 49.6362 ug/L

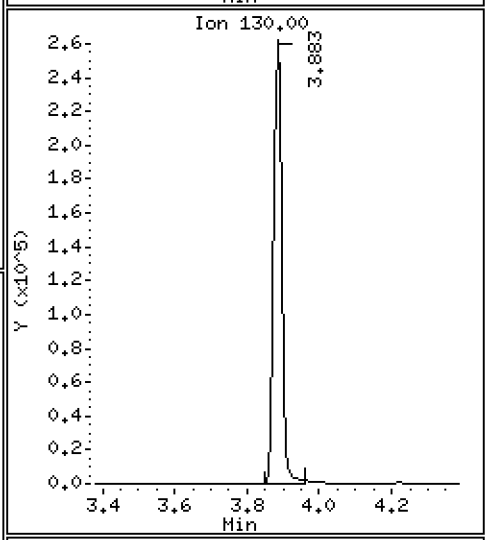


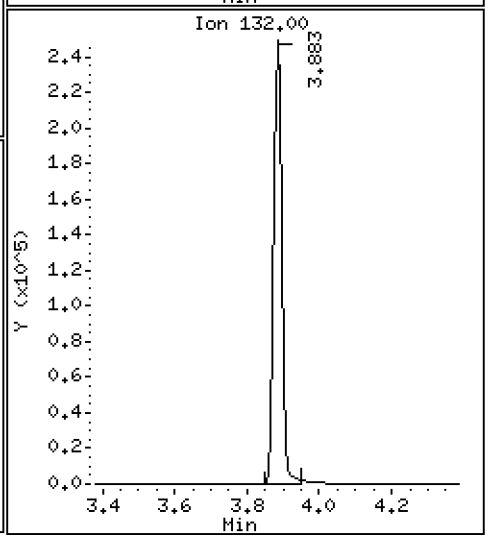












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 63

Date : 25-OCT-2016 00:52

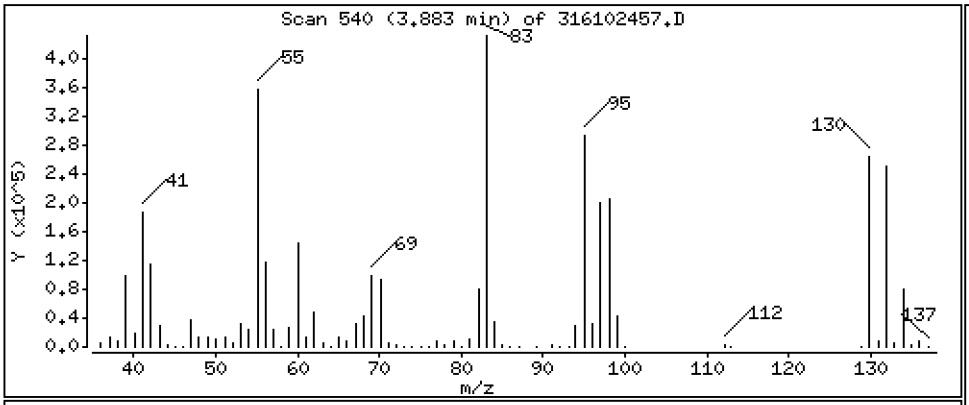
Client ID: Instrument: ms03.i

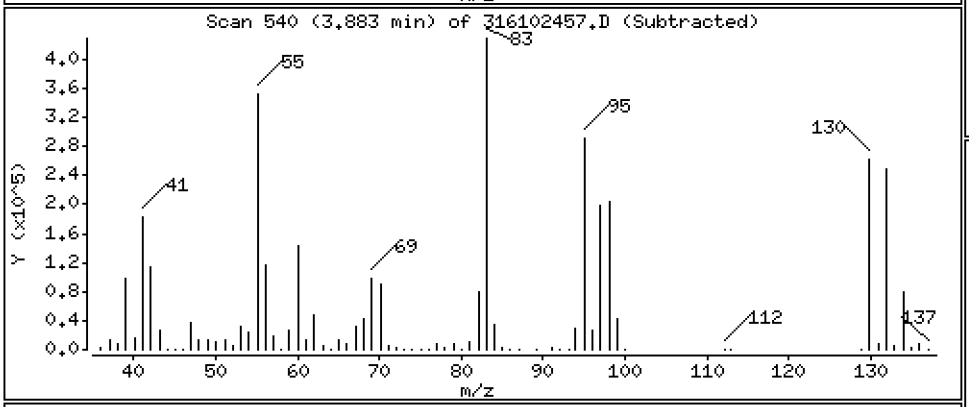
Sample Info: 1237;;1;1;4;;;

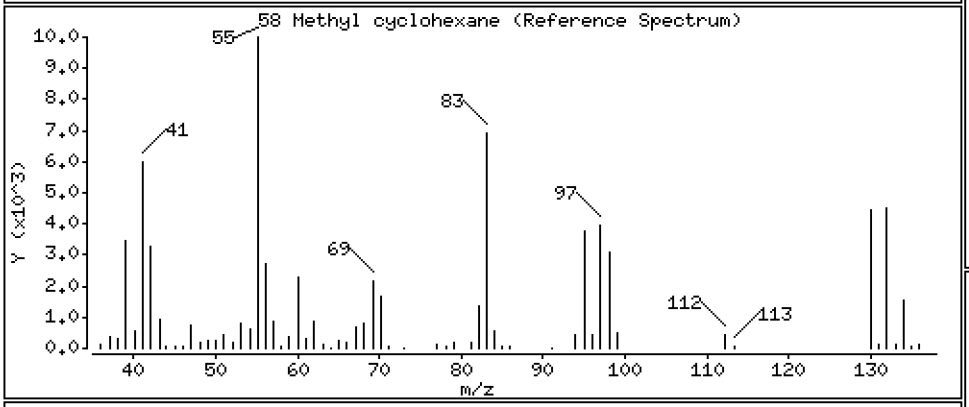
Purge Volume: 5.0 Operator: CJG

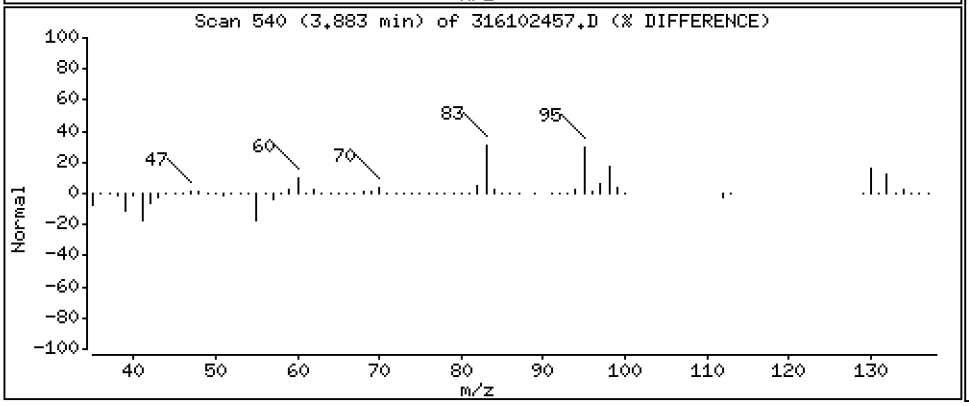
Column phase: DB-VRX Column diameter: 0.25

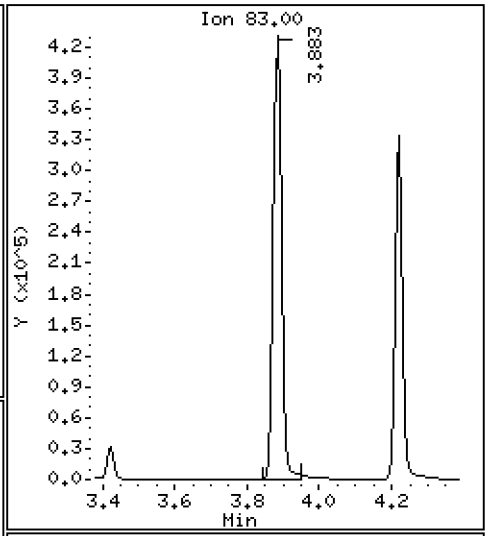
58 Methyl cyclohexane Concentration: 49.0502 ug/L

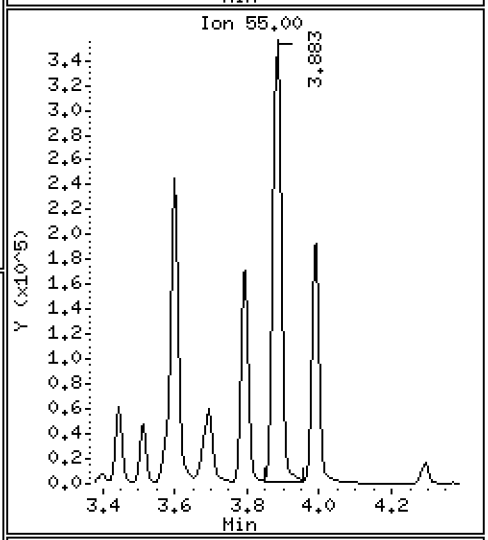


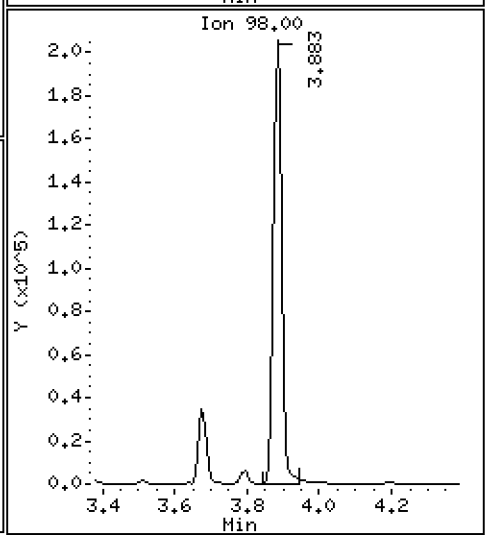












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 64

Date : 25-OCT-2016 00:52

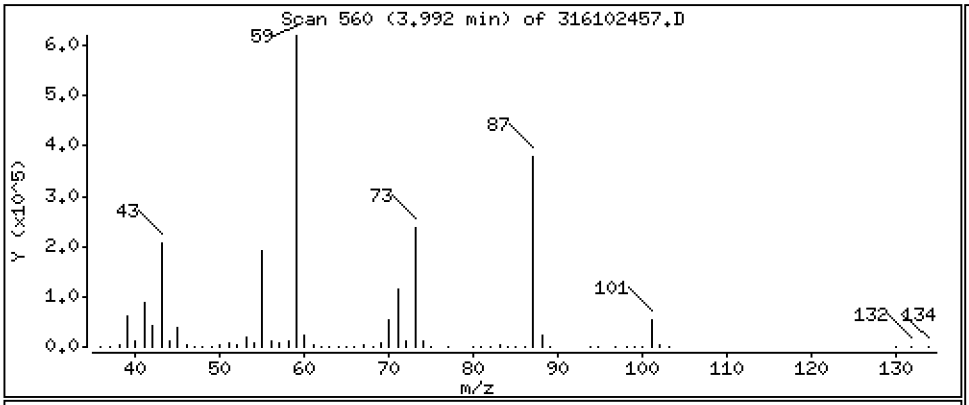
Client ID: Instrument: ms03.i

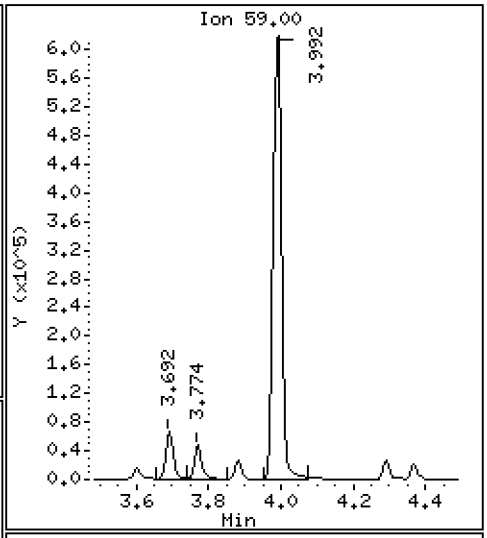
Sample Info: 1237;;1;1;4;;;

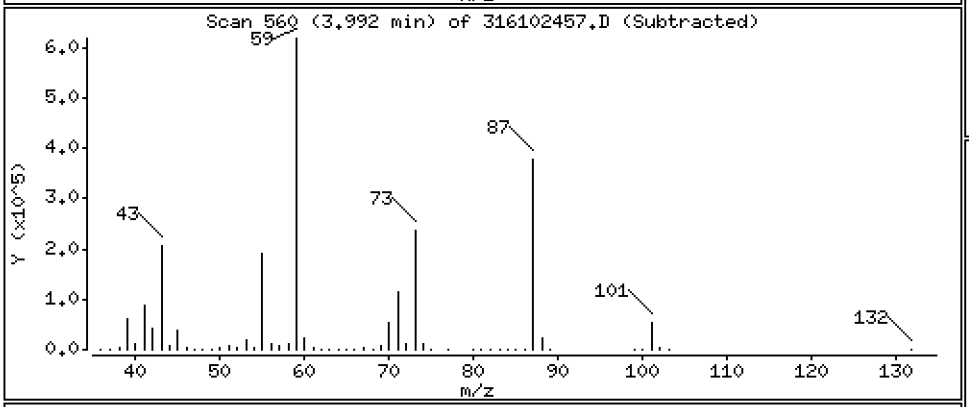
Purge Volume: 5.0 Operator: CJG

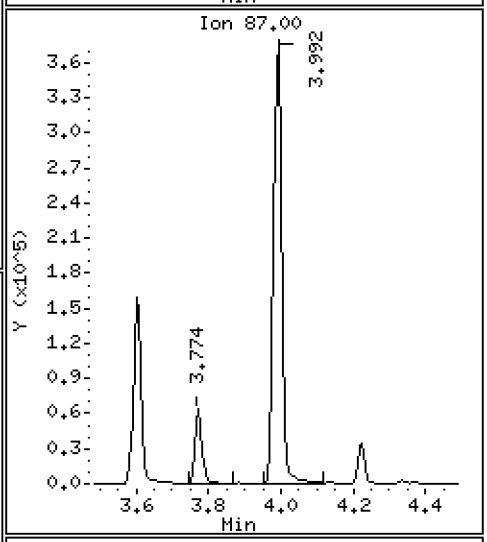
Column phase: DB-VRX Column diameter: 0.25

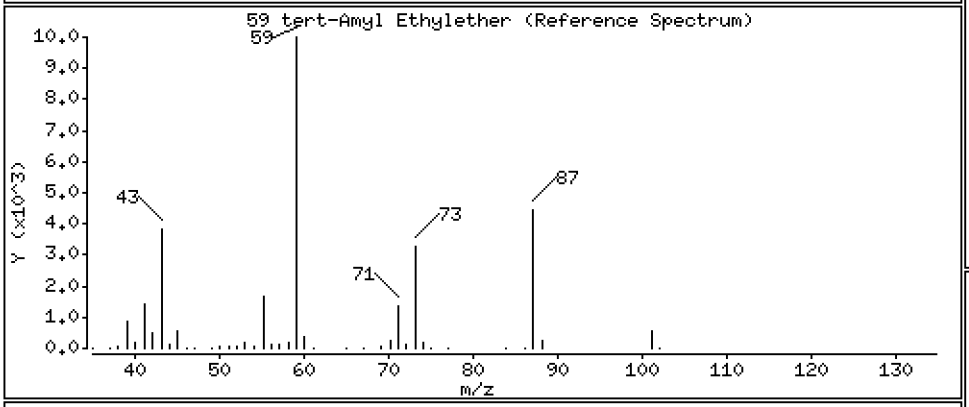
59 tert-Amyl Ethylether Concentration: 49.1298 ug/L

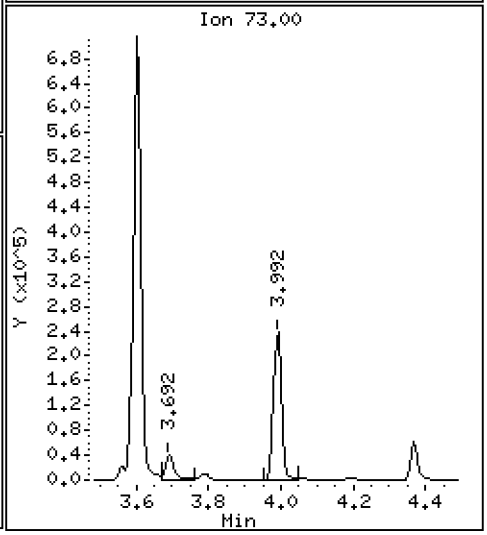


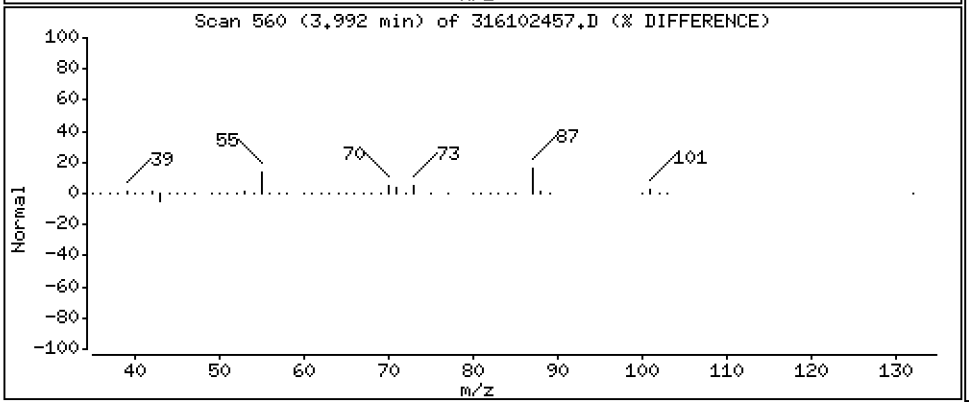












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 65

Date : 25-OCT-2016 00:52

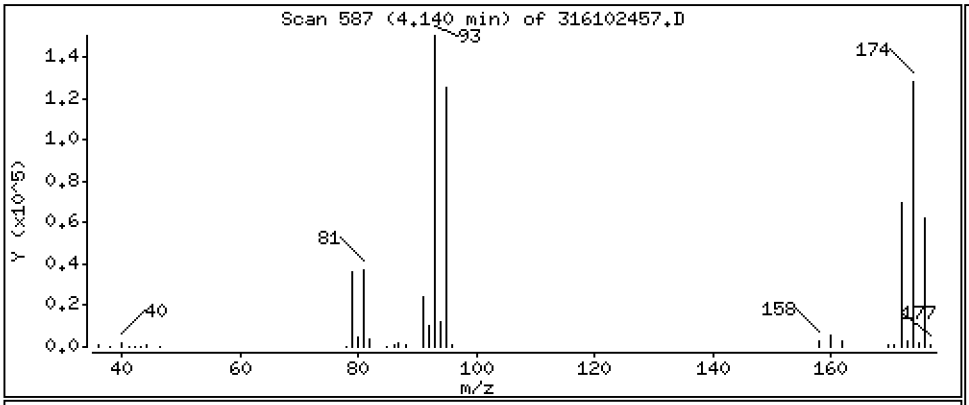
Client ID: Instrument: ms03.i

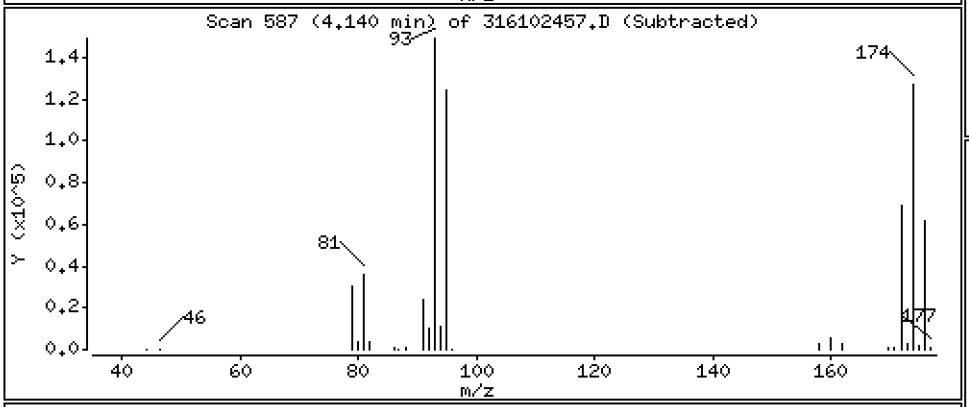
Sample Info: 1237;;1;1;4;;;

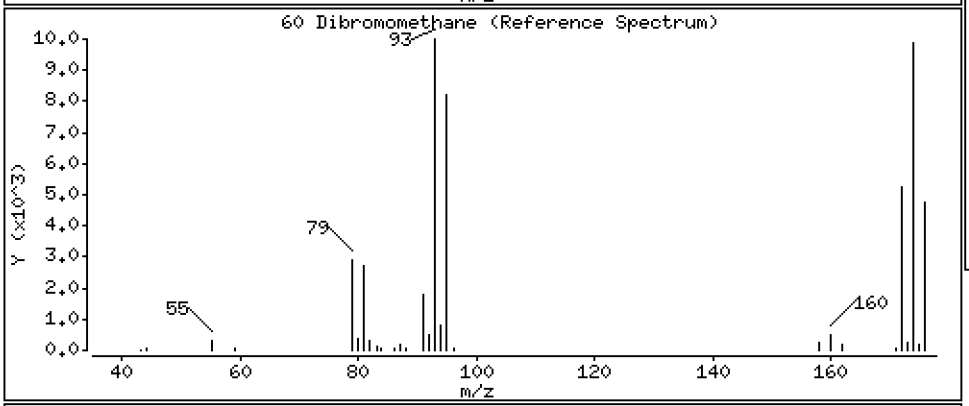
Purge Volume: 5.0 Operator: CJG

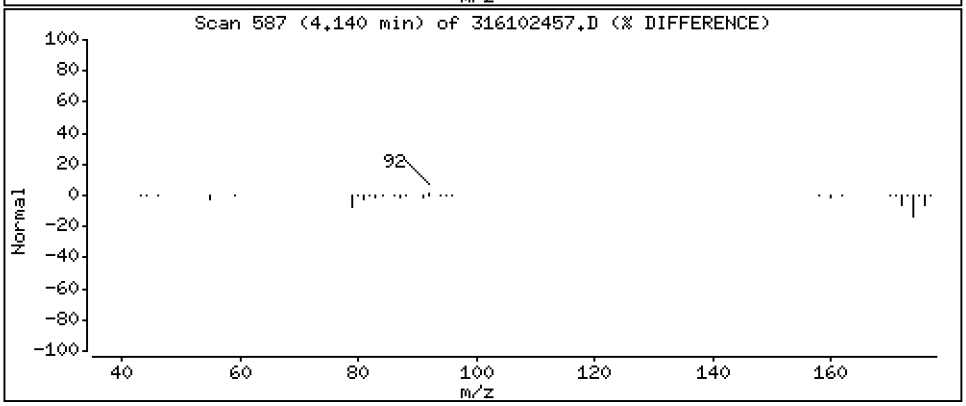
Column phase: DB-VRX Column diameter: 0.25

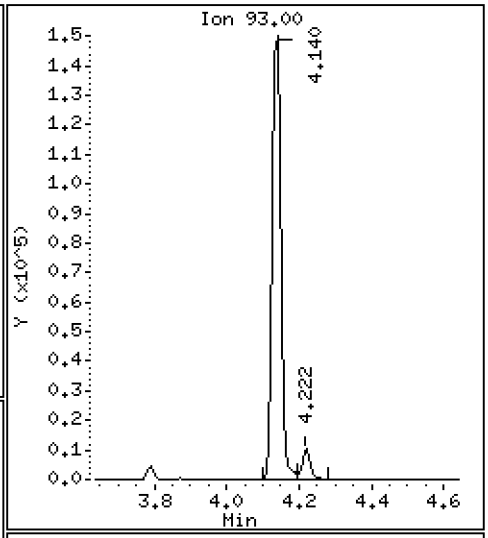
60 Dibromomethane Concentration: 49.5857 ug/L

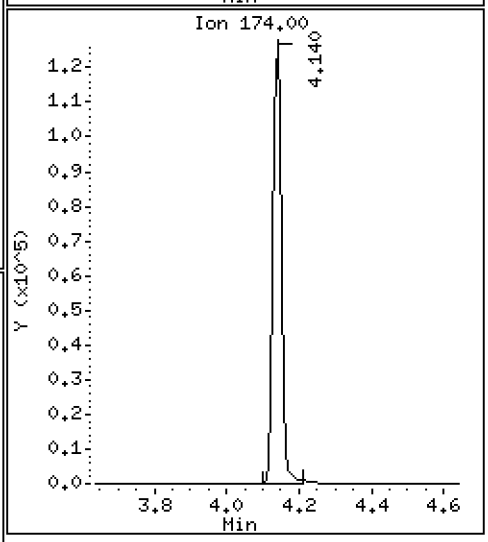












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 66

Date : 25-OCT-2016 00:52

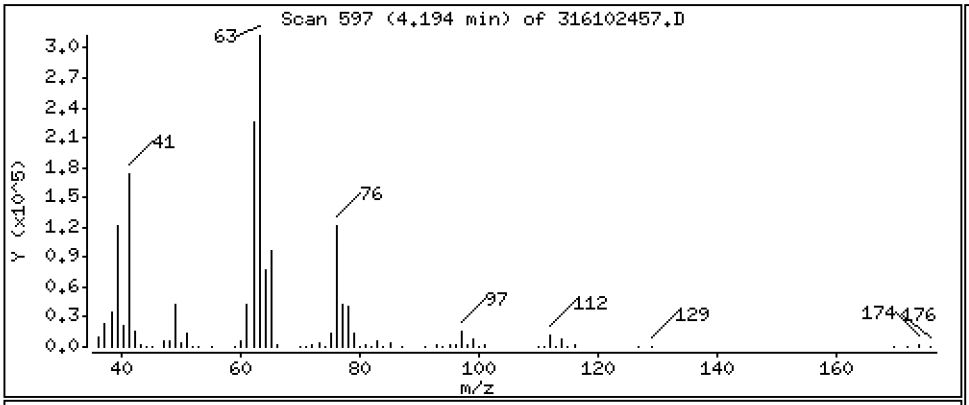
Client ID: Instrument: ms03.i

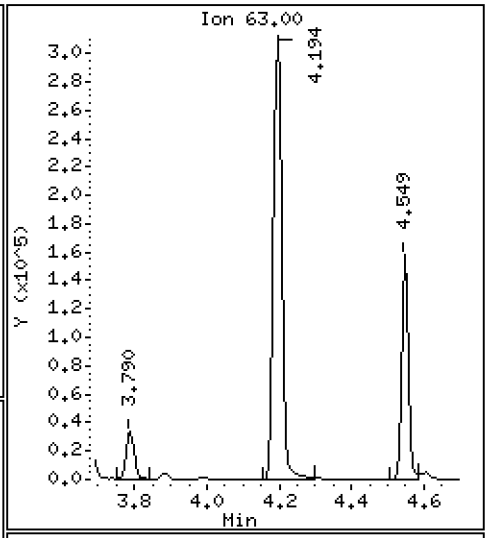
Sample Info: 1237;;1;1;4;;;

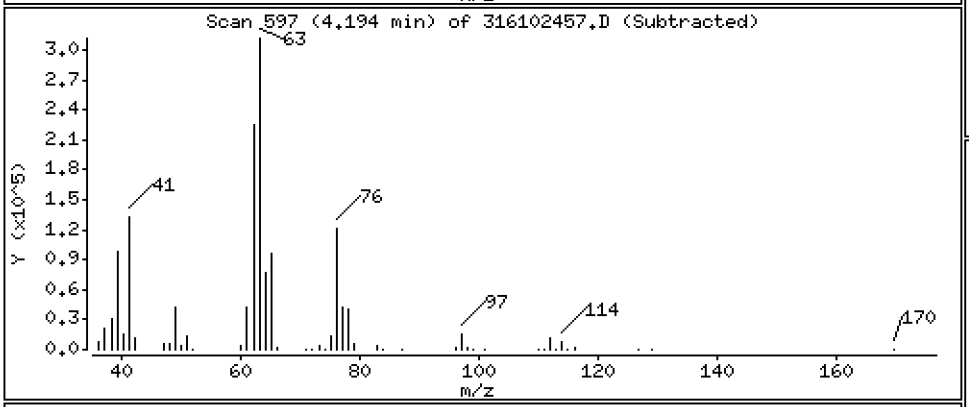
Purge Volume: 5.0 Operator: CJG

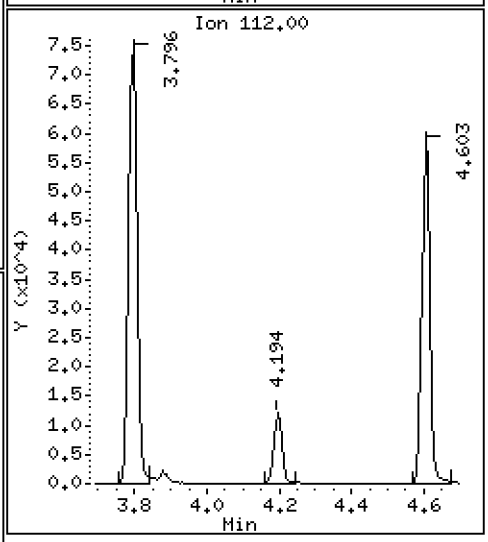
Column phase: DB-VRX Column diameter: 0.25

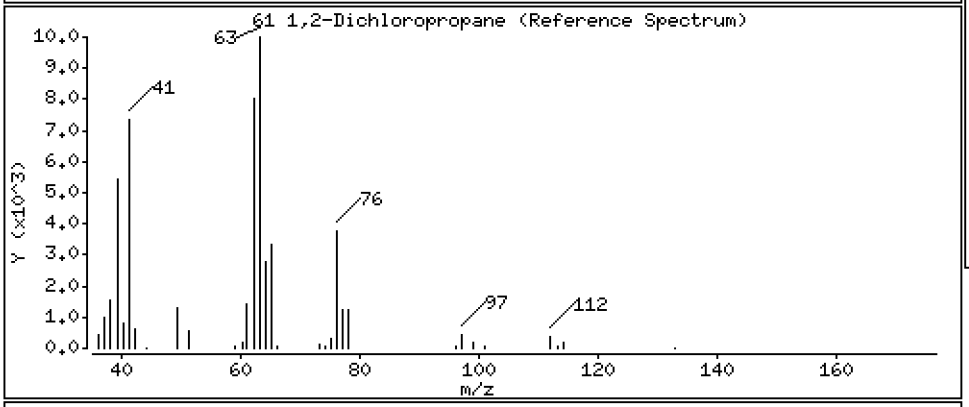
61 1,2-Dichloropropane Concentration: 49.6392 ug/L

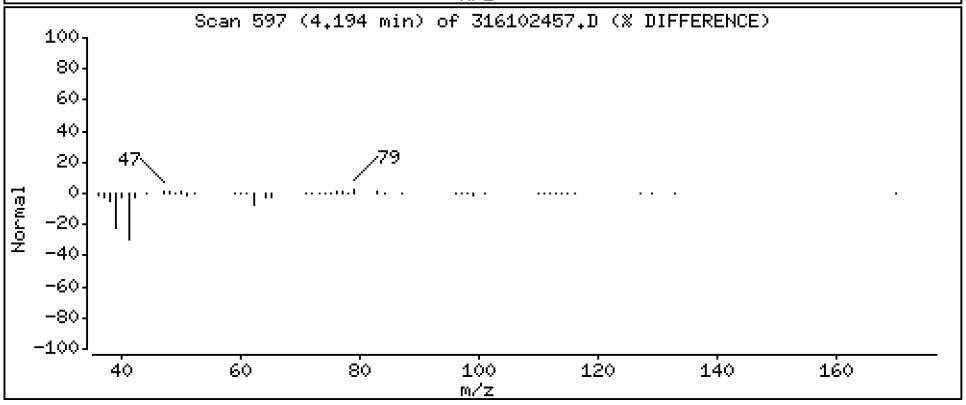












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 67

Date : 25-OCT-2016 00:52

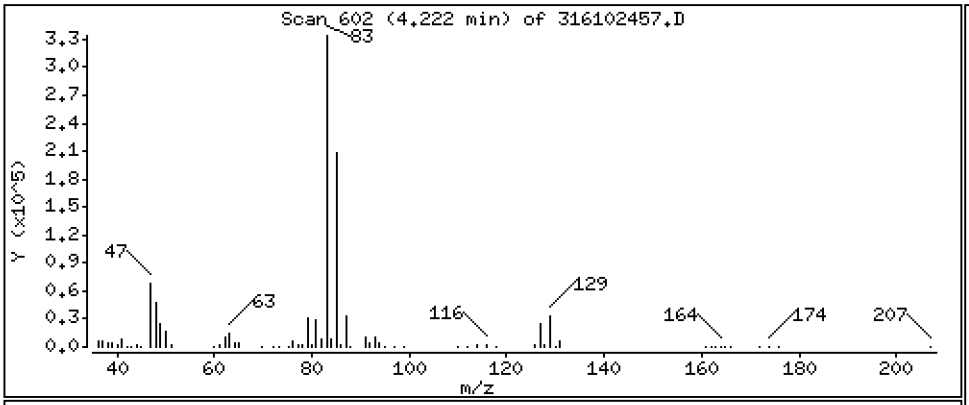
Client ID: Instrument: ms03.i

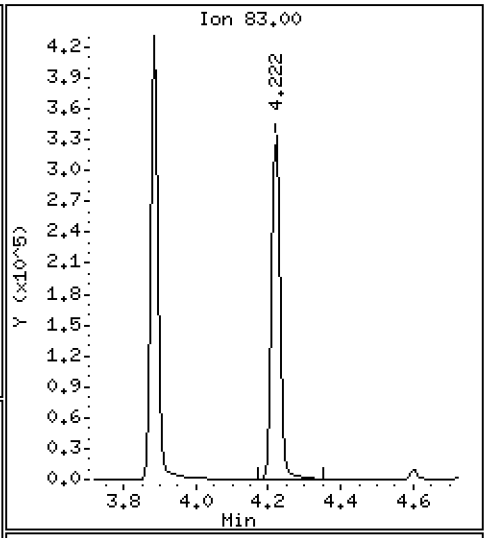
Sample Info: 1237;;1;1;4;;;

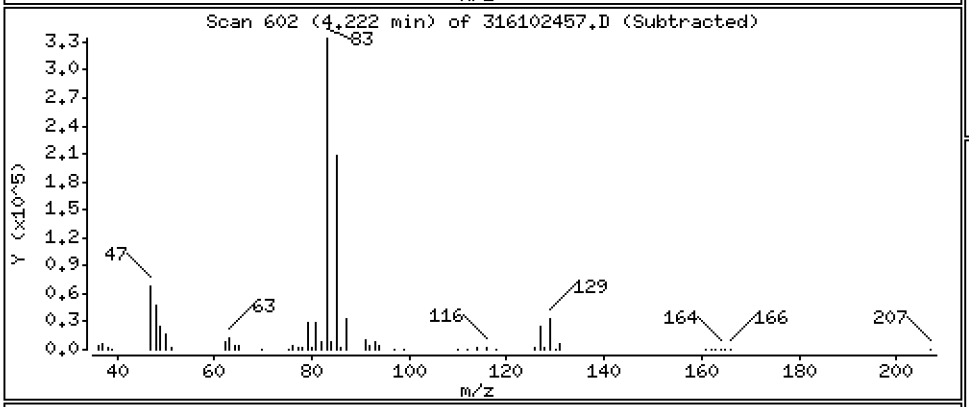
Purge Volume: 5.0 Operator: CJG

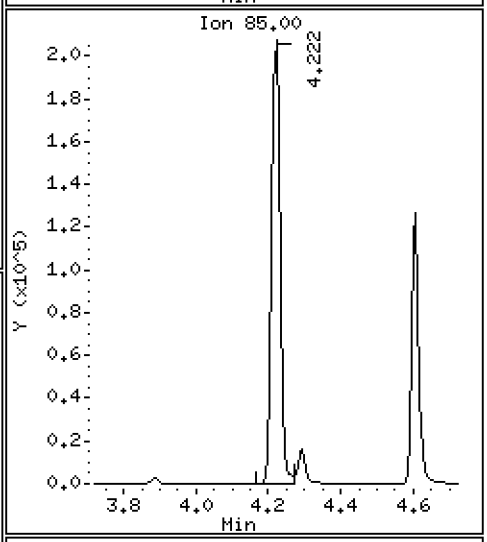
Column phase: DB-VRX Column diameter: 0.25

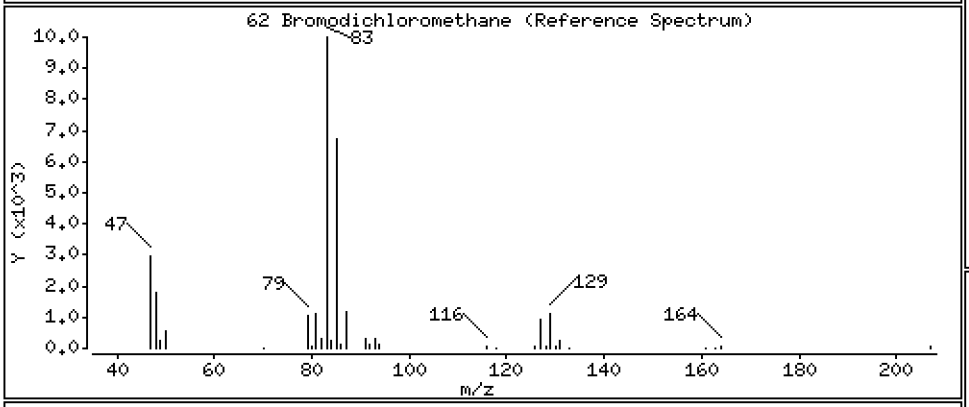
62 Bromodichloromethane Concentration: 49.7277 ug/L

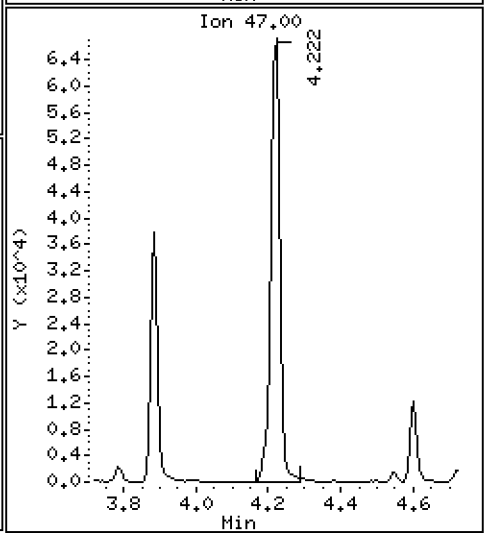


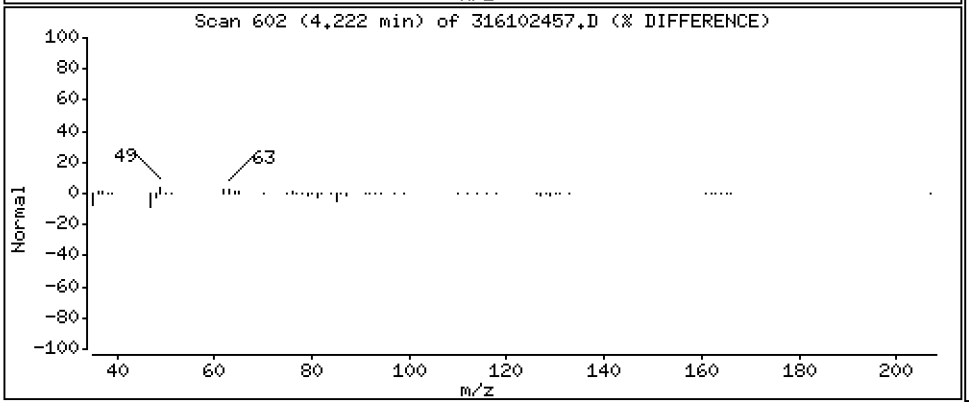












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 68

Date : 25-OCT-2016 00:52

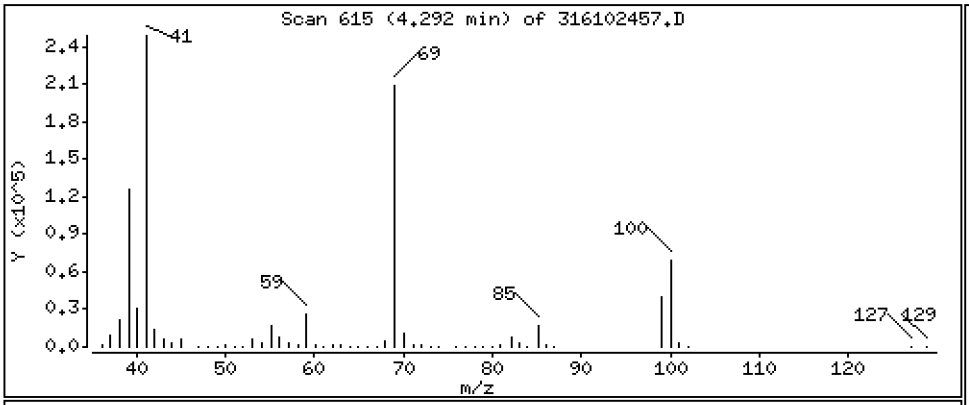
Client ID: Instrument: ms03.i

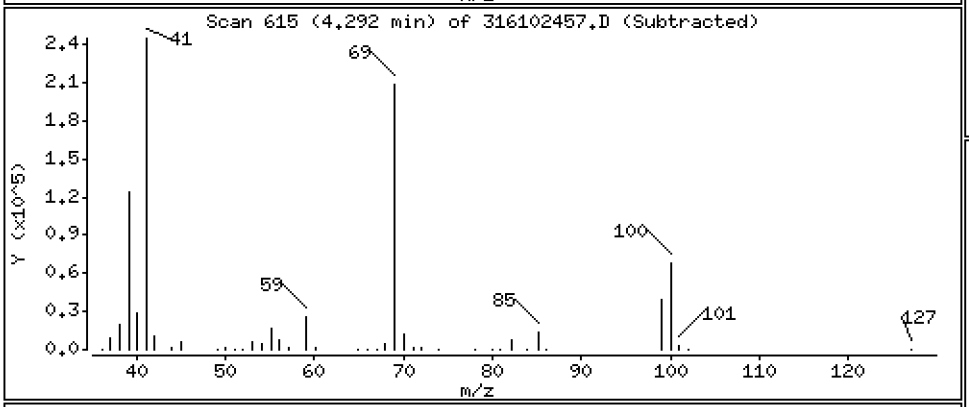
Sample Info: 1237;;1;1;4;;;

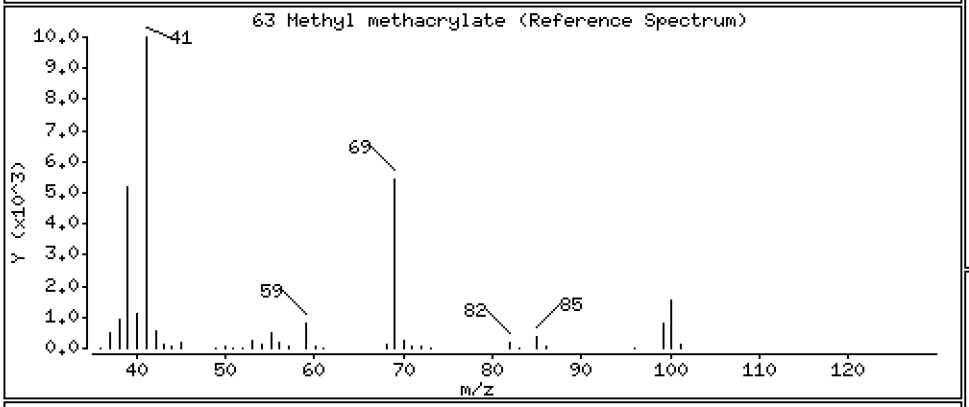
Purge Volume: 5.0 Operator: CJG

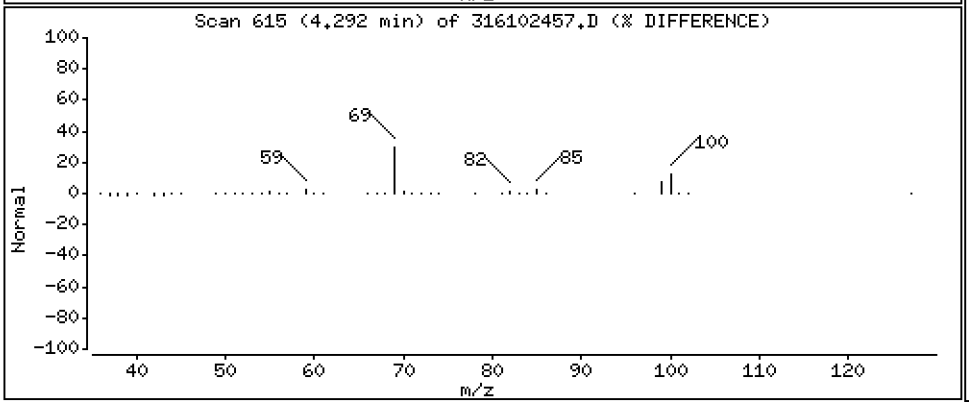
Column phase: DB-VRX Column diameter: 0.25

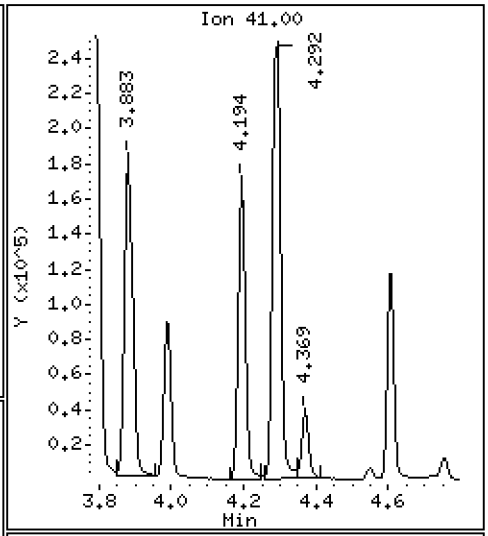
63 Methyl methacrylate Concentration: 49.4509 ug/L

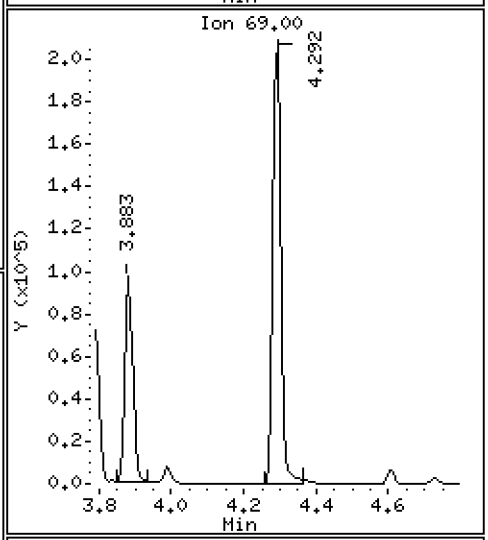


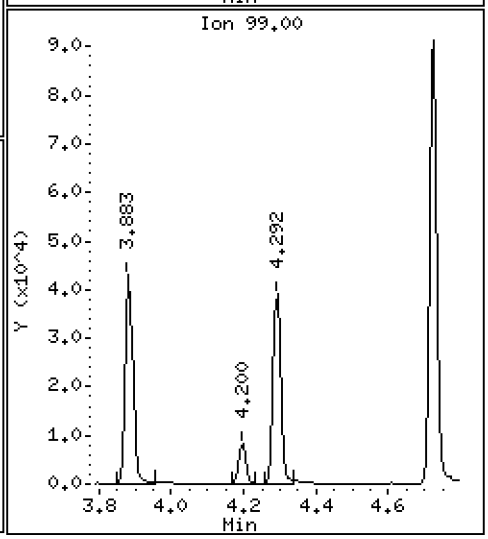












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 69

Date : 25-OCT-2016 00:52

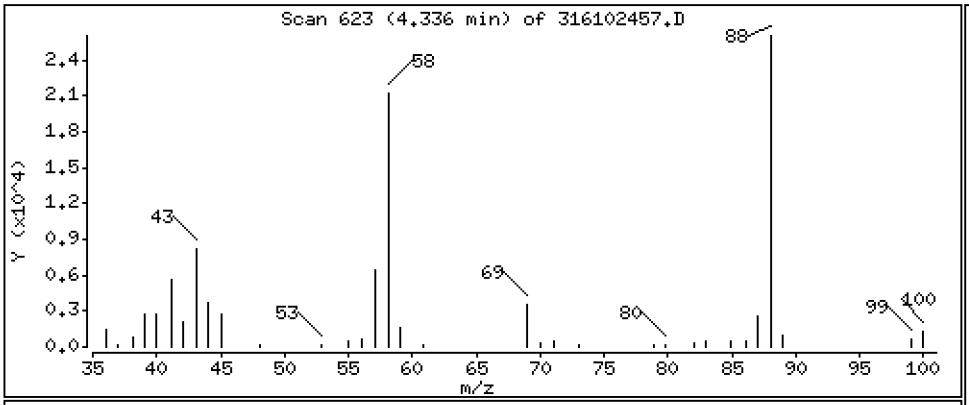
Client ID: Instrument: ms03.i

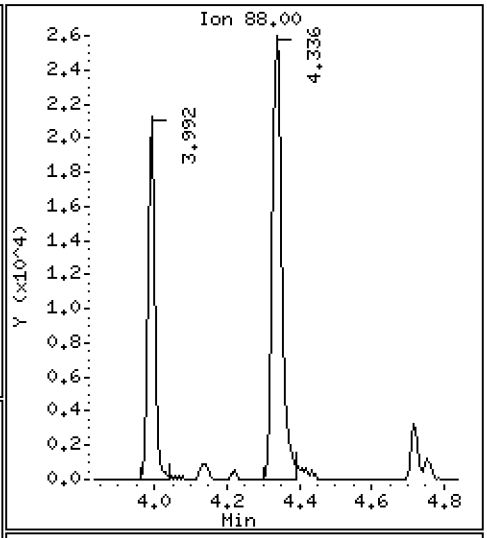
Sample Info: 1237;;1;1;4;;;

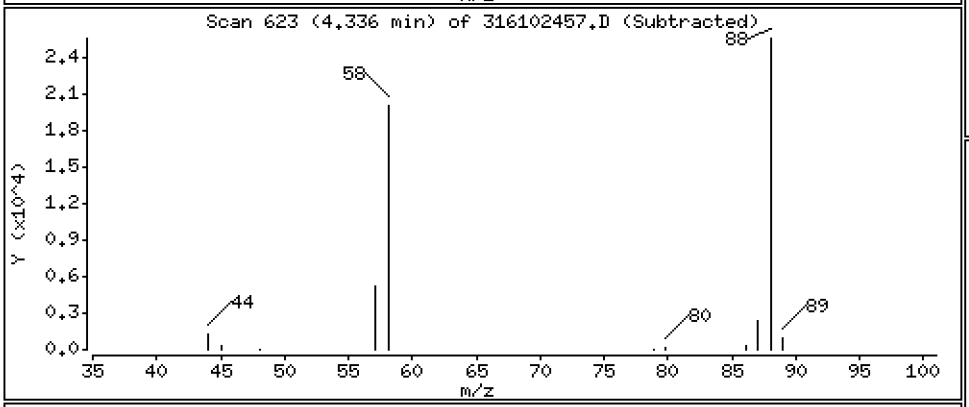
Purge Volume: 5.0 Operator: CJG

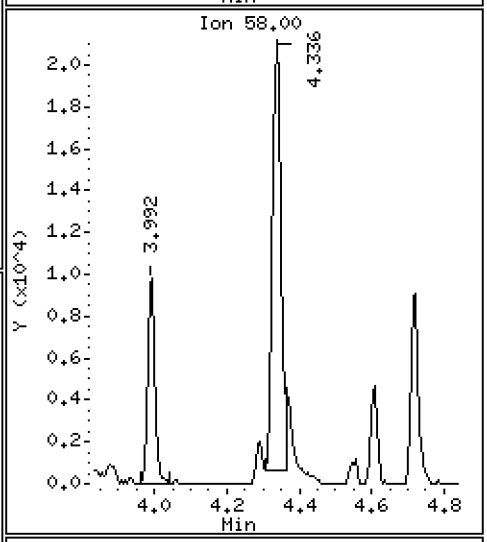
Column phase: DB-VRX Column diameter: 0.25

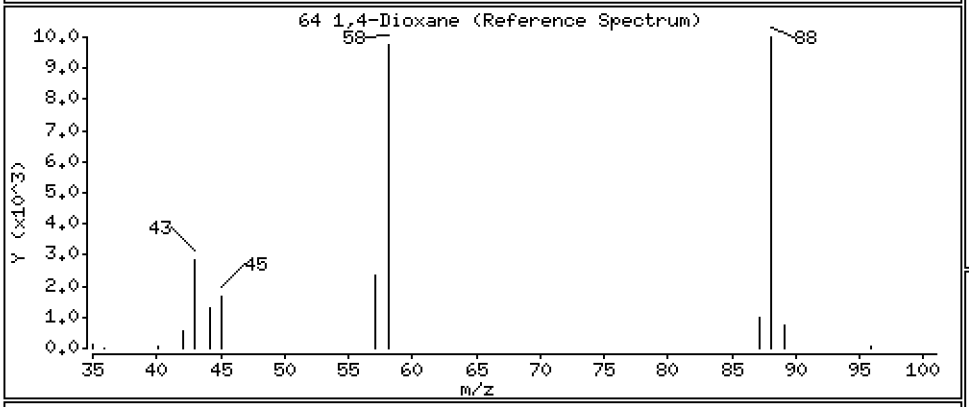
64 1,4-Dioxane Concentration: 1304.81 ug/L

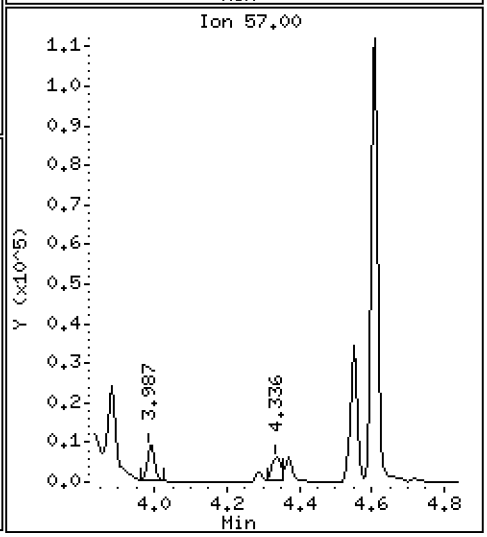


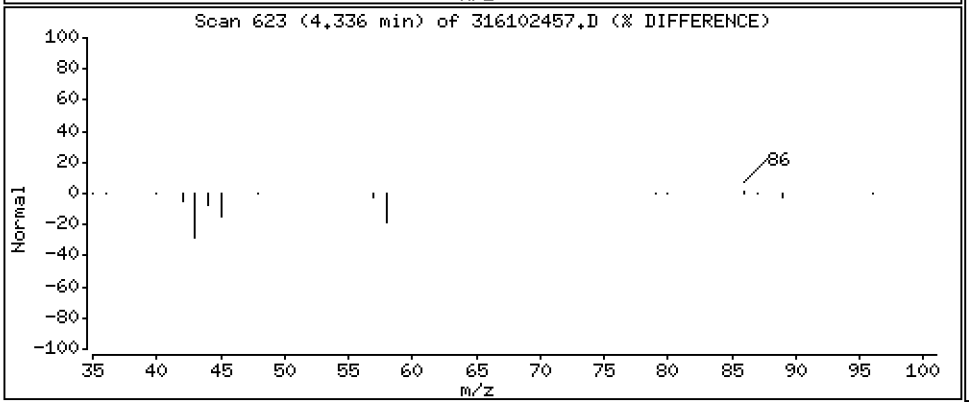












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 70

Date : 25-OCT-2016 00:52

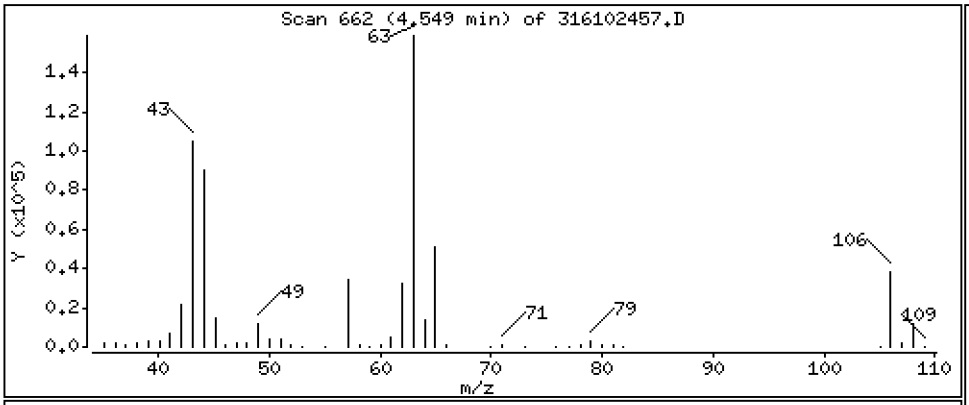
Client ID: Instrument: ms03.i

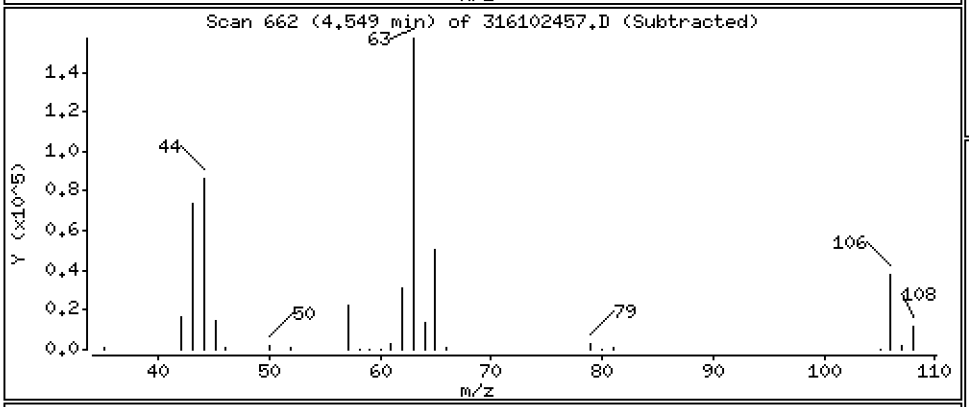
Sample Info: 1237;;1;1;4;;;

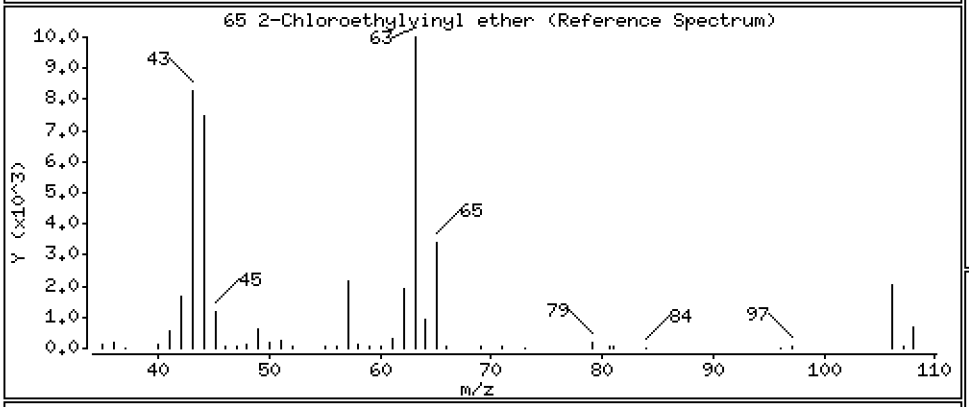
Purge Volume: 5.0 Operator: CJG

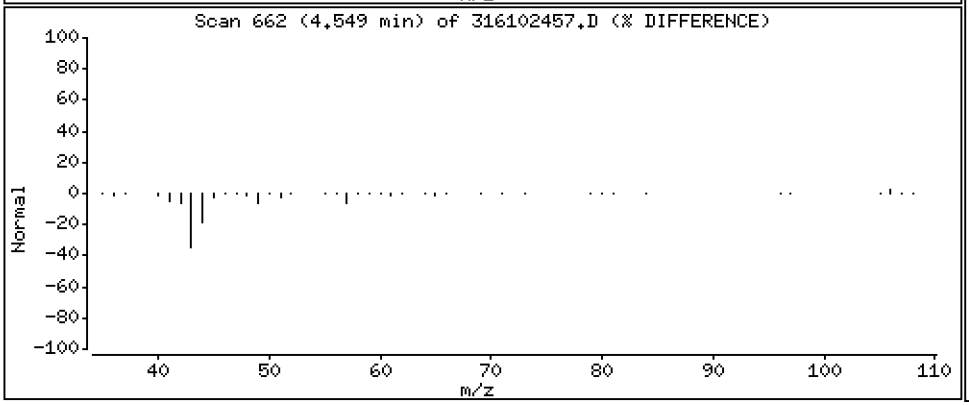
Column phase: DB-VRX Column diameter: 0.25

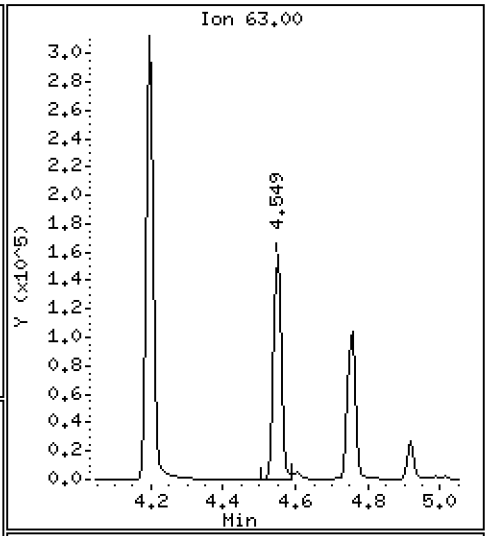
65 2-Chloroethylvinyl ether Concentration: 49.5586 ug/L

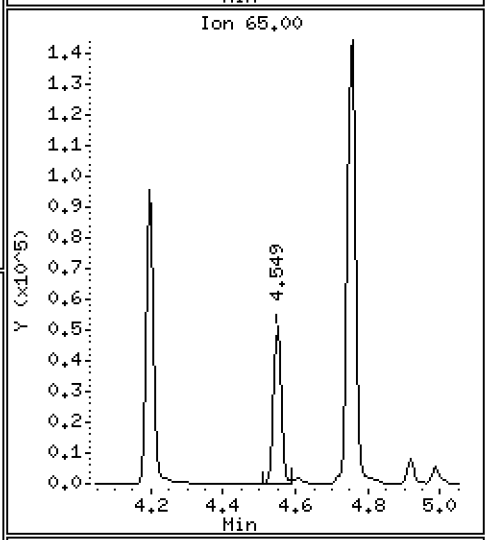


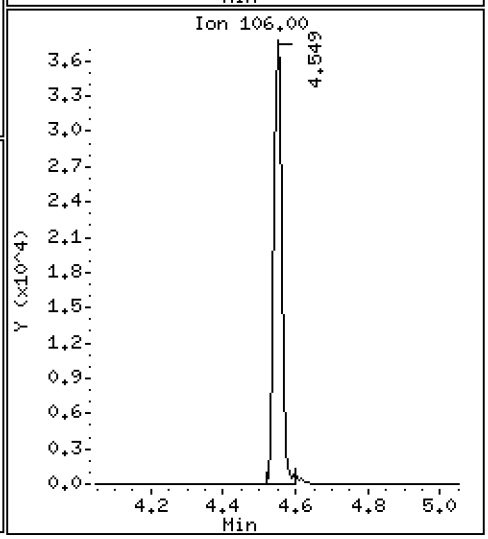












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 71

Date : 25-OCT-2016 00:52

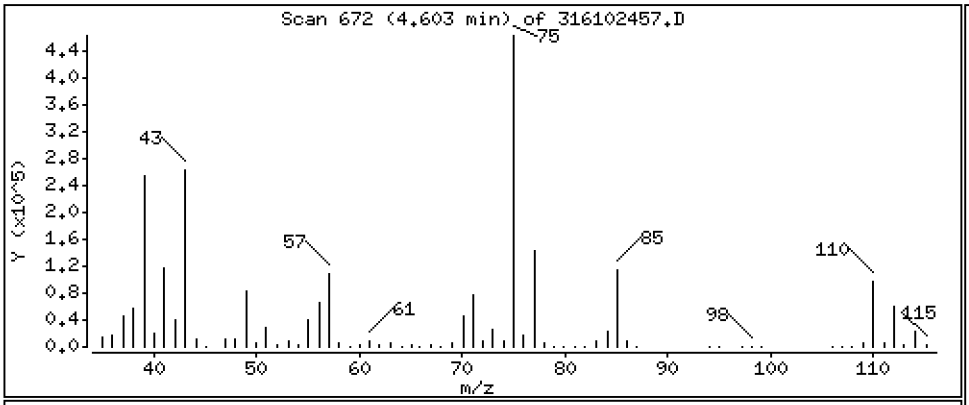
Client ID: Instrument: ms03.i

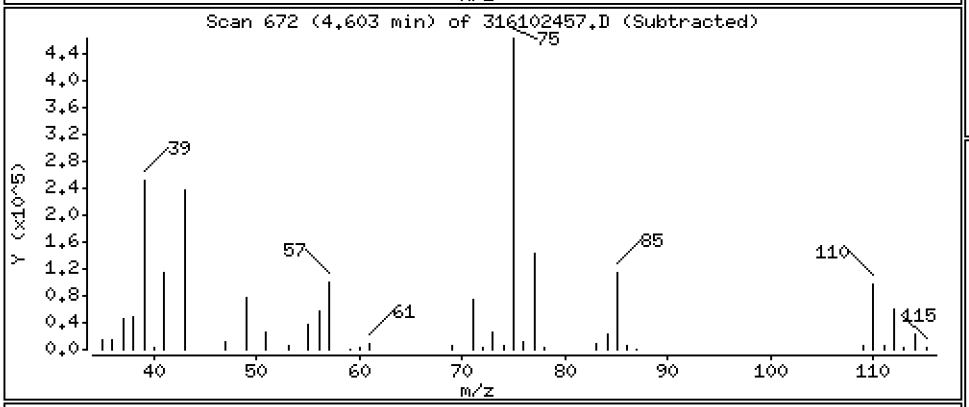
Sample Info: 1237;;1;1;4;;;

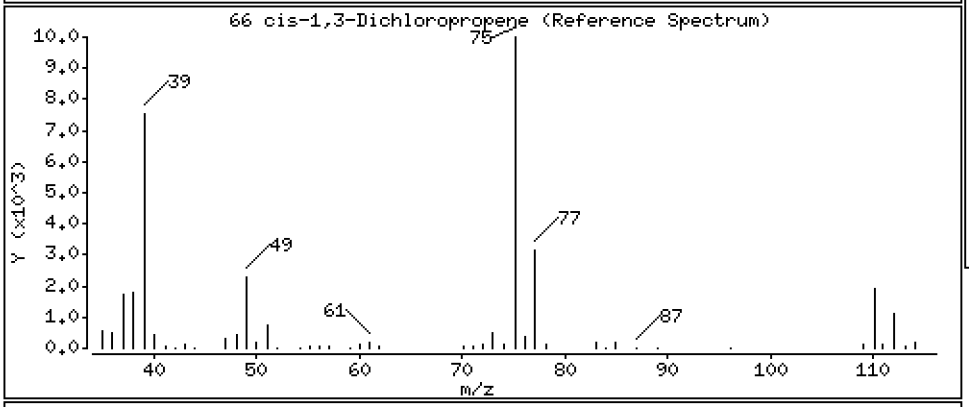
Purge Volume: 5.0 Operator: CJG

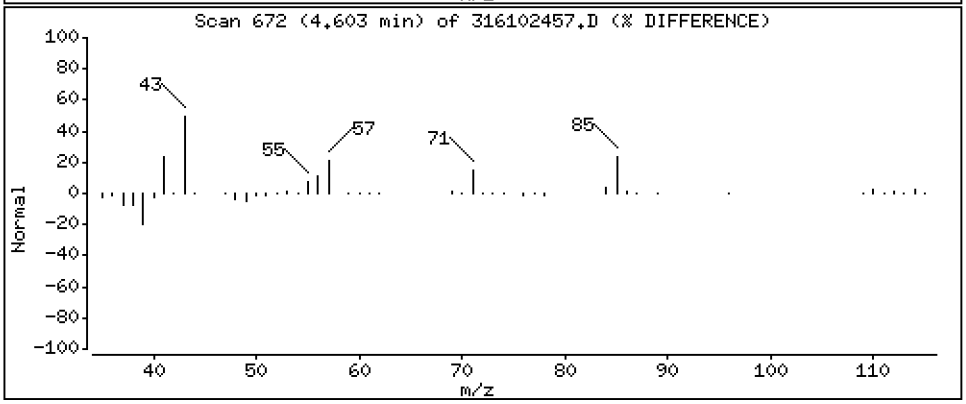
Column phase: DB-VRX Column diameter: 0.25

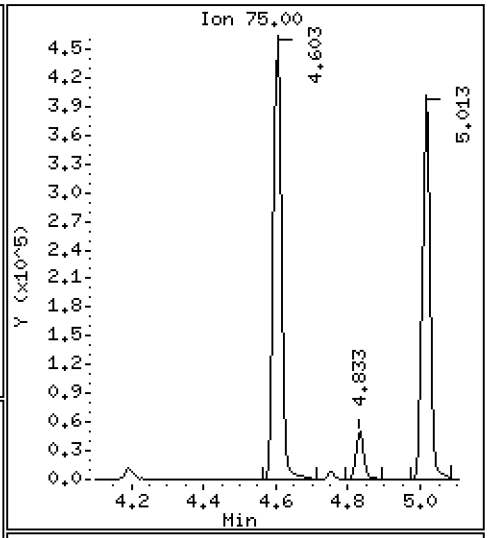
66 cis-1,3-Dichloropropene Concentration: 49.3887 ug/L

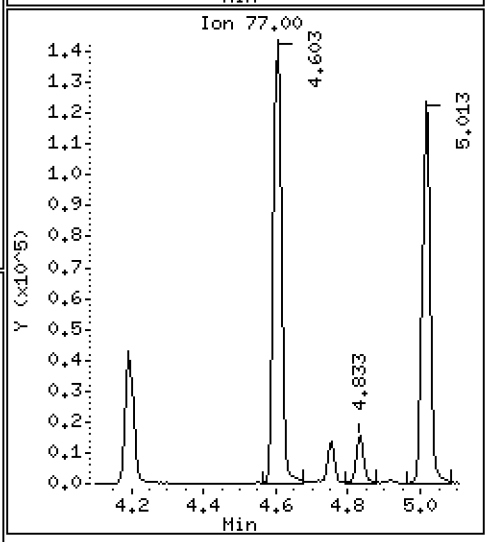












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 72

Date : 25-OCT-2016 00:52

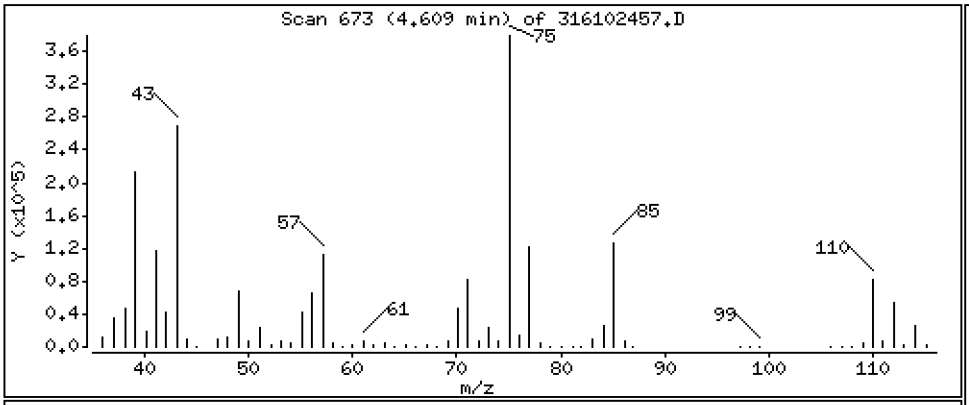
Client ID: Instrument: ms03.i

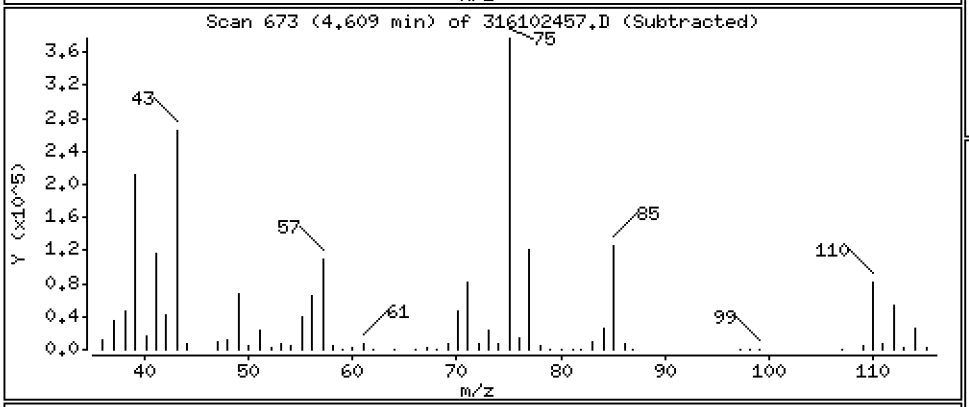
Sample Info: 1237;;1;1;4;;;

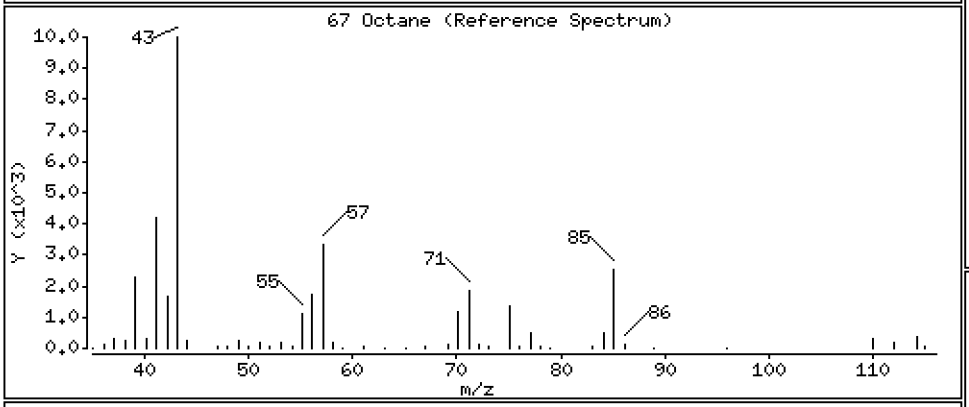
Purge Volume: 5.0 Operator: CJG

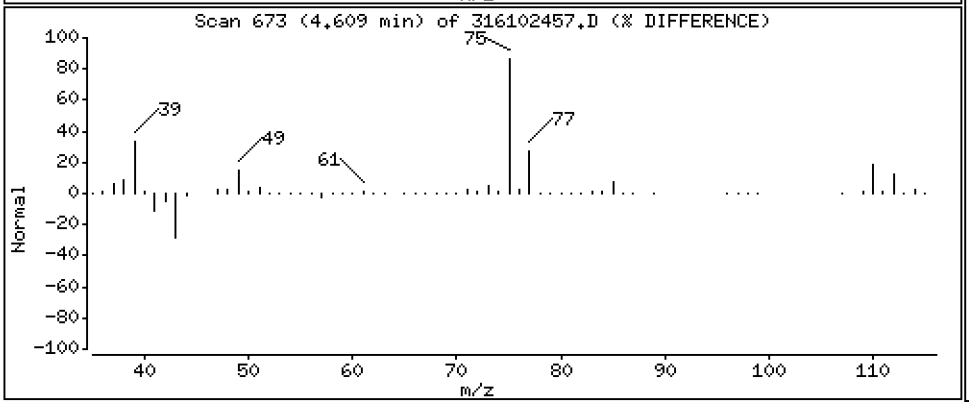
Column phase: DB-VRX Column diameter: 0.25

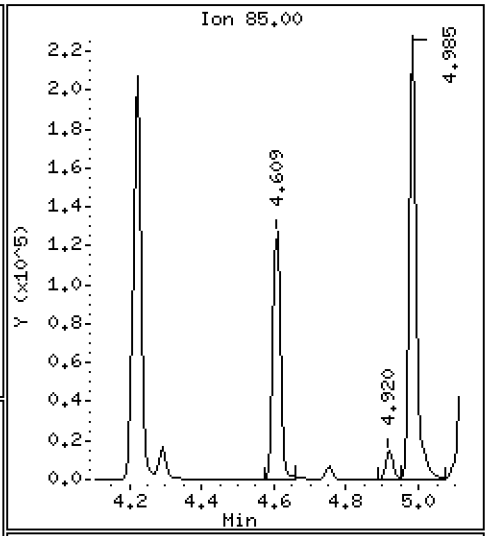
67 Octane Concentration: 46.7771 ug/L

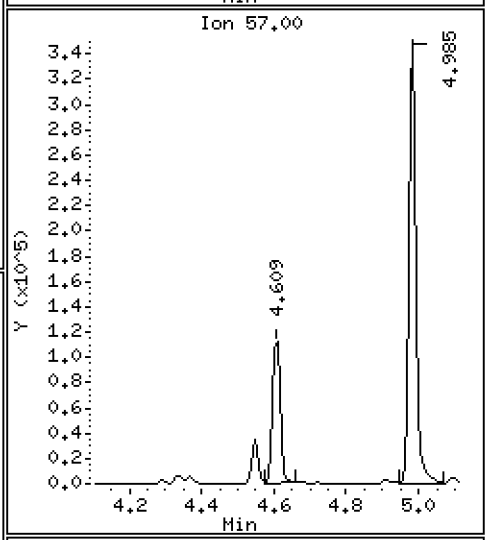


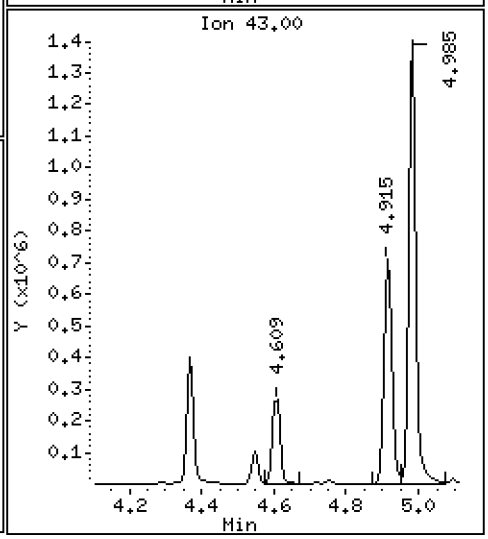












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 73

Date : 25-OCT-2016 00:52

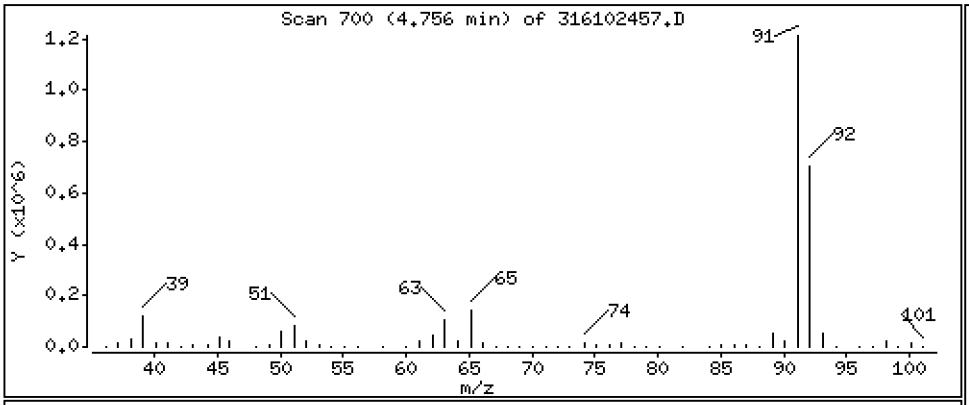
Client ID: Instrument: ms03.i

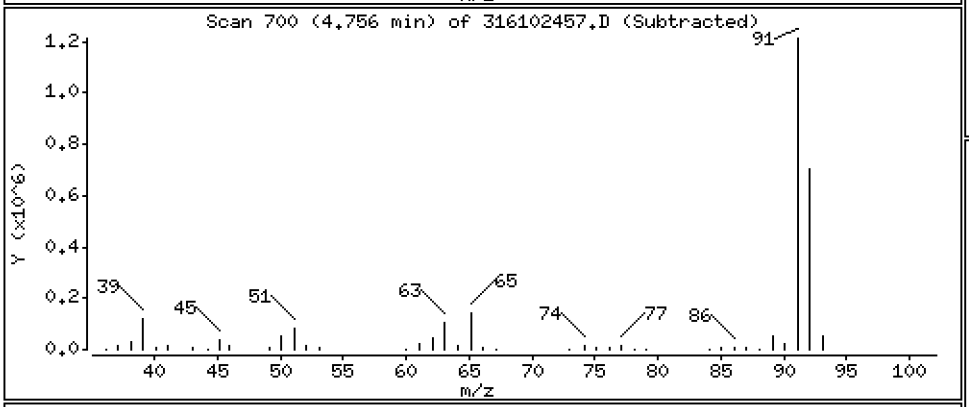
Sample Info: 1237;;1;1;4;;;

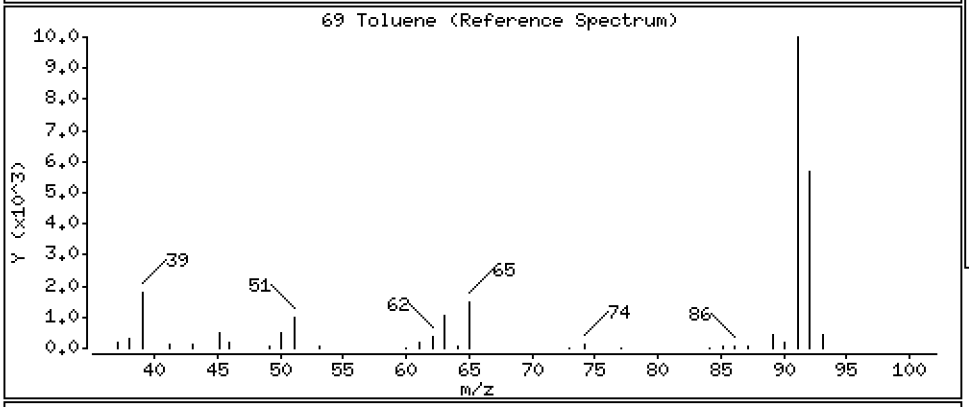
Purge Volume: 5.0 Operator: CJG

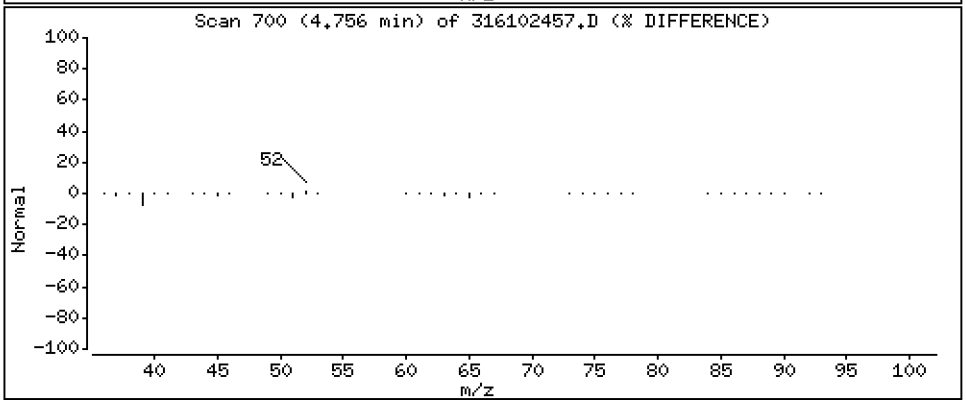
Column phase: DB-VRX Column diameter: 0.25

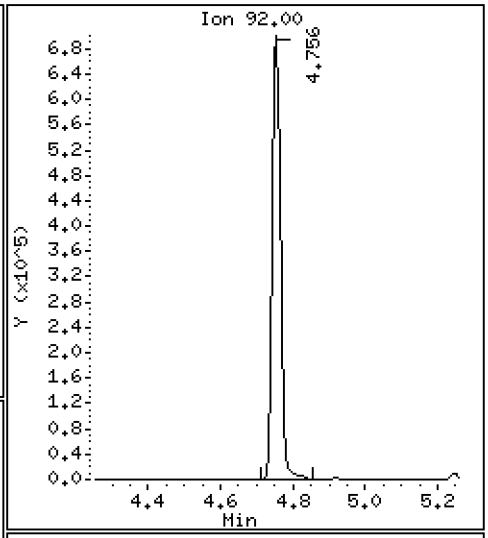
69 Toluene Concentration: 50.2185 ug/L

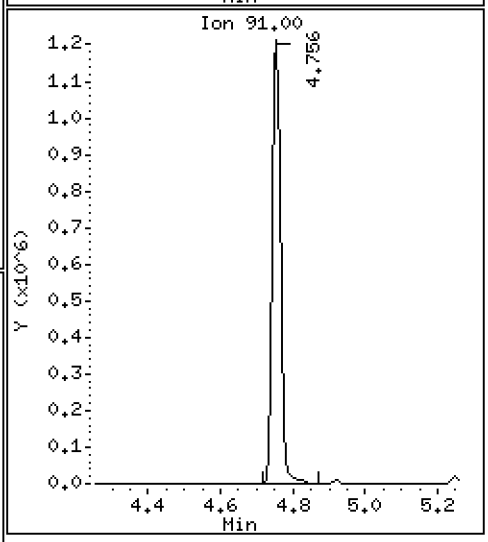












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 74

Date : 25-OCT-2016 00:52

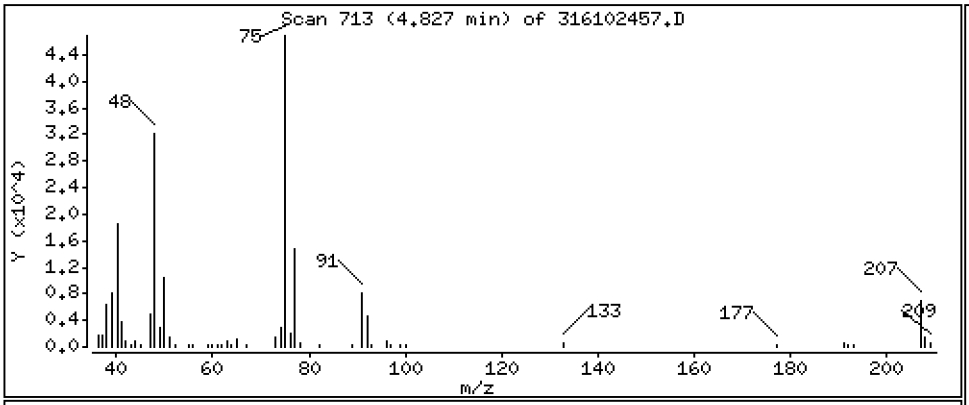
Client ID: Instrument: ms03.i

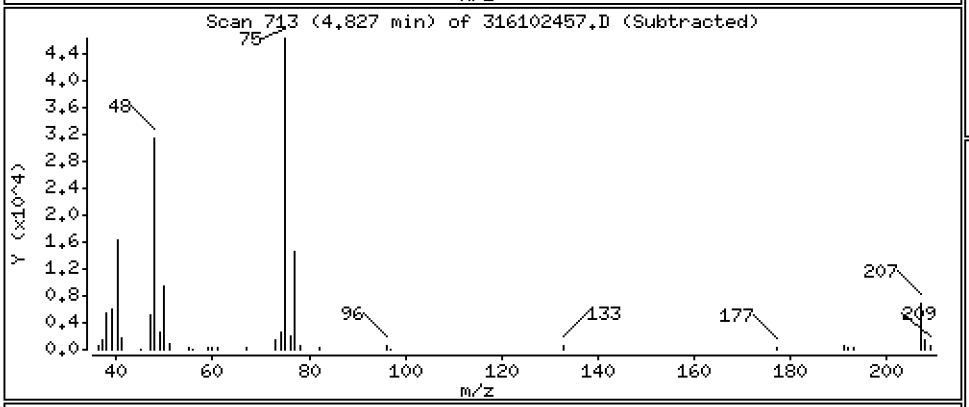
Sample Info: 1237;;1;1;4;;;

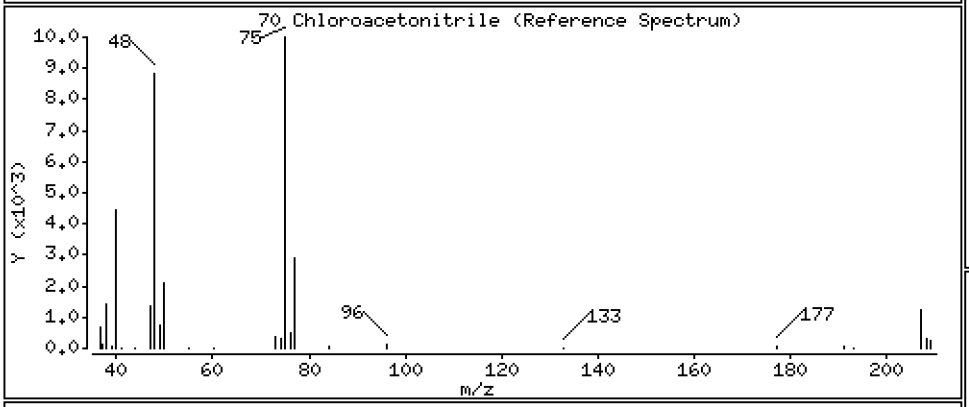
Purge Volume: 5.0 Operator: CJG

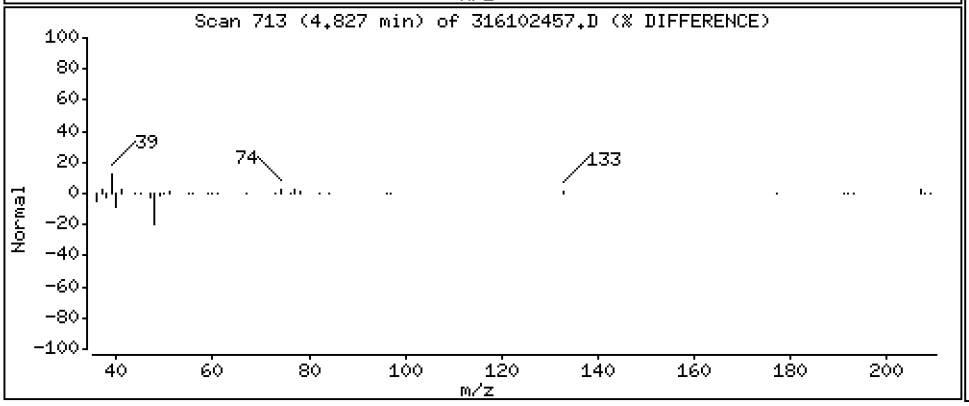
Column phase: DB-VRX Column diameter: 0.25

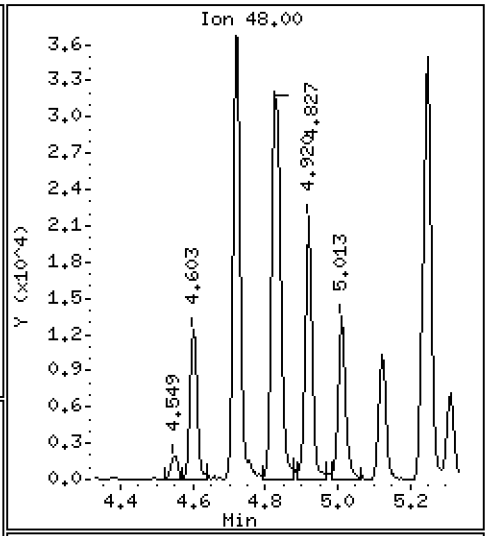
70 Chloroacetonitrile Concentration: 256.720 ug/L

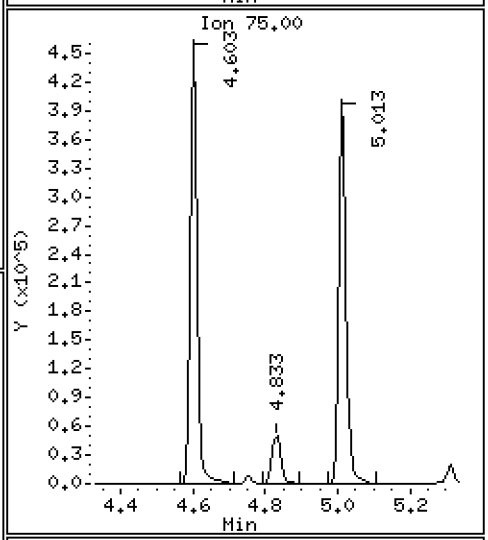


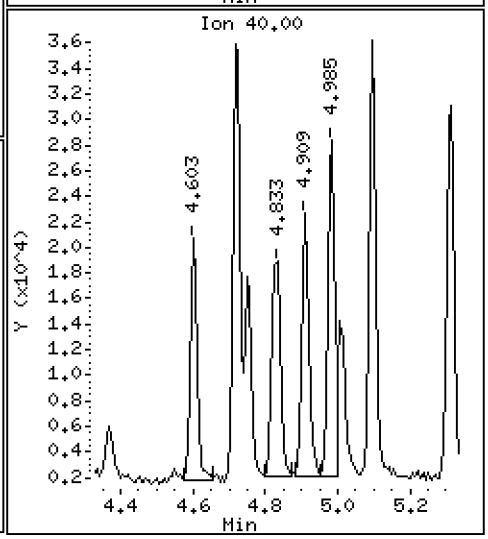












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 75

Date : 25-OCT-2016 00:52

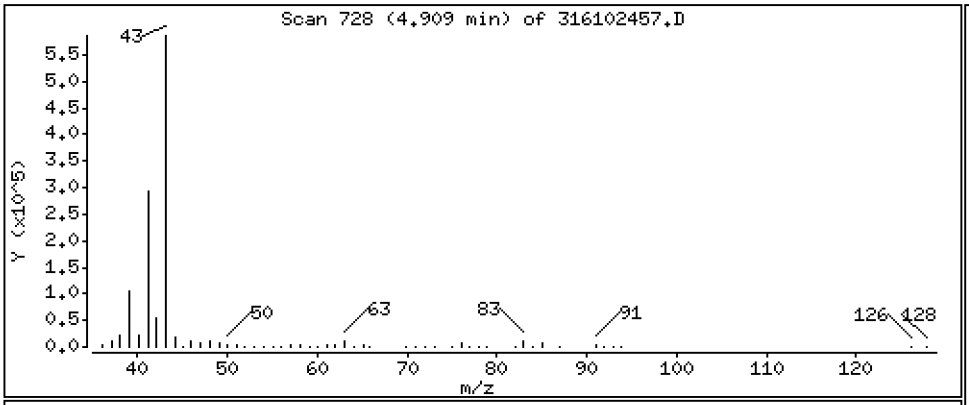
Client ID: Instrument: ms03.i

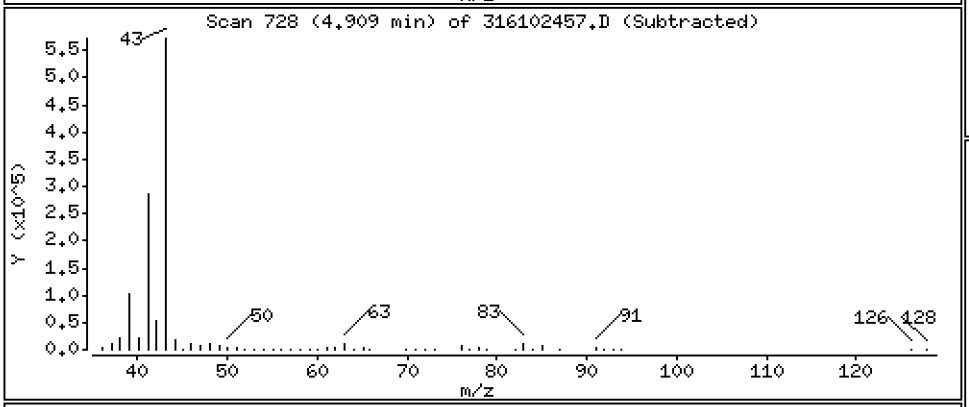
Sample Info: 1237;;1;1;4;;;

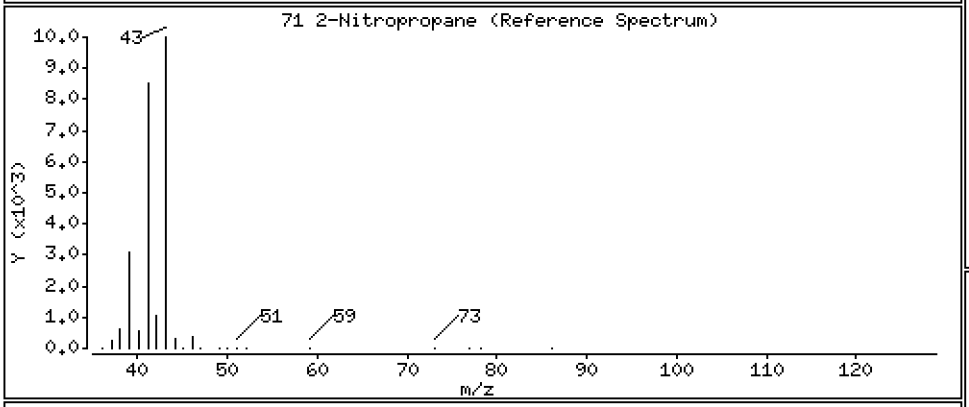
Purge Volume: 5.0 Operator: CJG

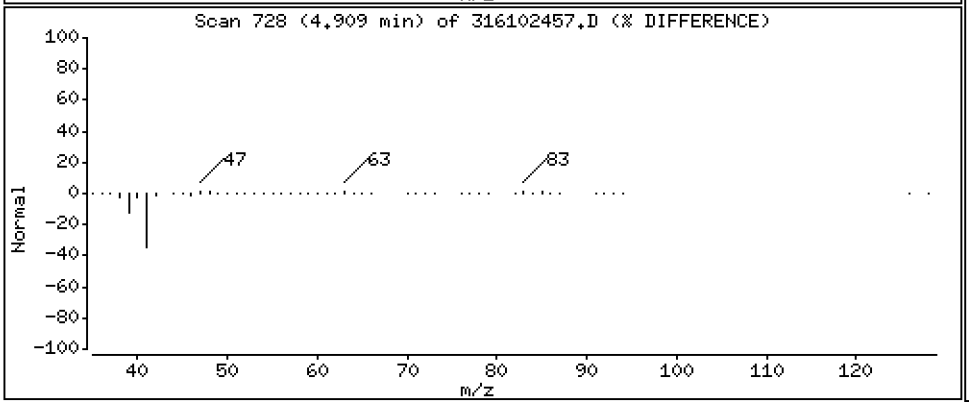
Column phase: DB-VRX Column diameter: 0.25

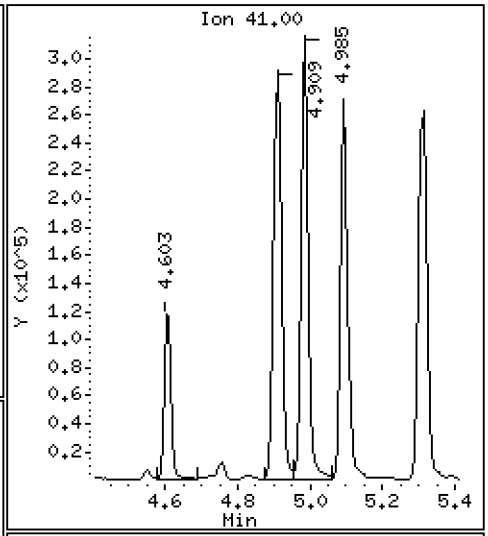
71 2-Nitropropane Concentration: 257.525 ug/L

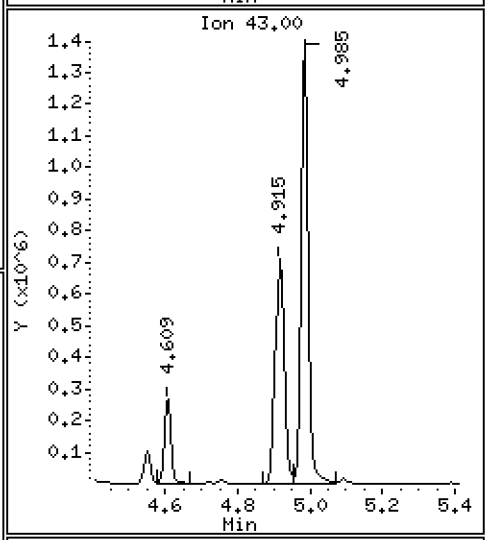


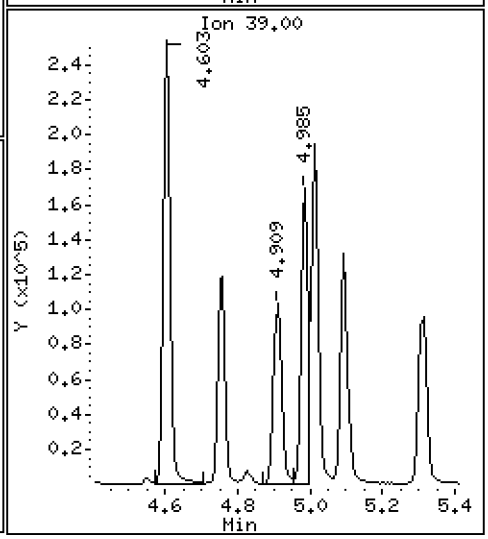












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 76

Date : 25-OCT-2016 00:52

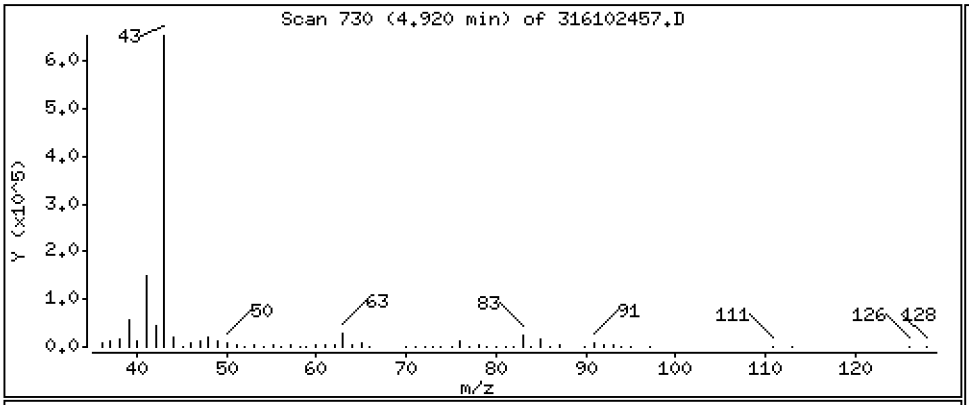
Client ID: Instrument: ms03.i

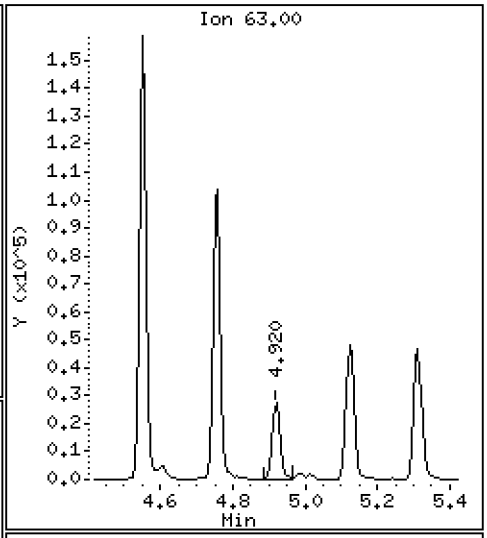
Sample Info: 1237;;1;1;4;;;

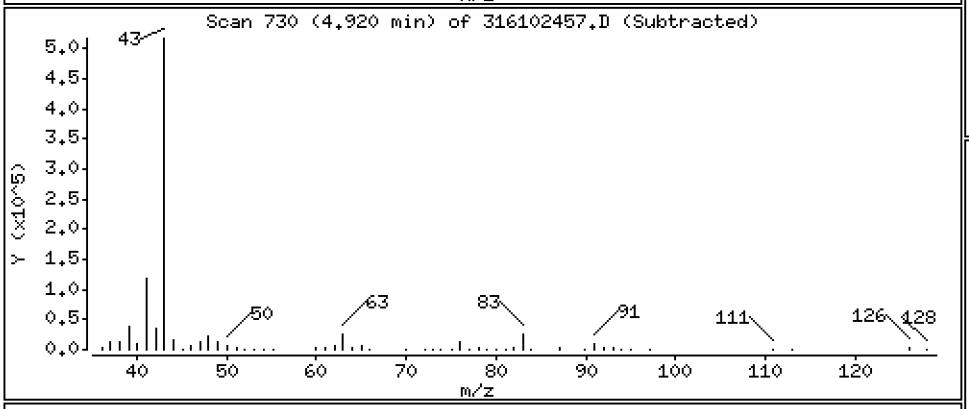
Purge Volume: 5.0 Operator: CJG

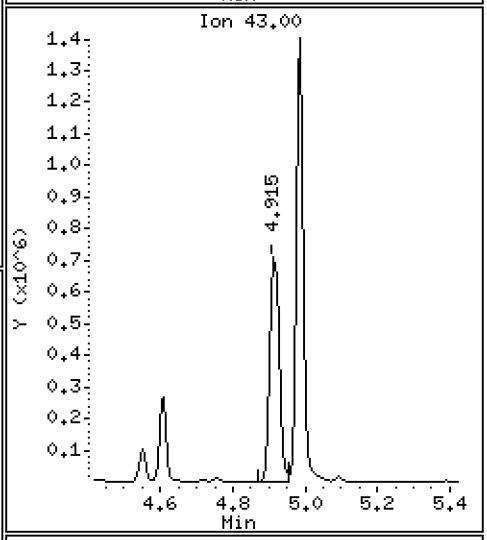
Column phase: DB-VRX Column diameter: 0.25

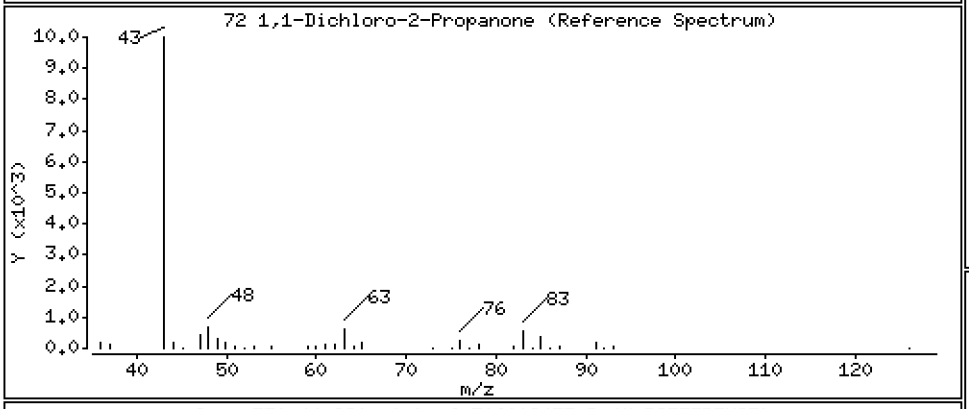
72 1,1-Dichloro-2-Propanone Concentration: 257.360 ug/L

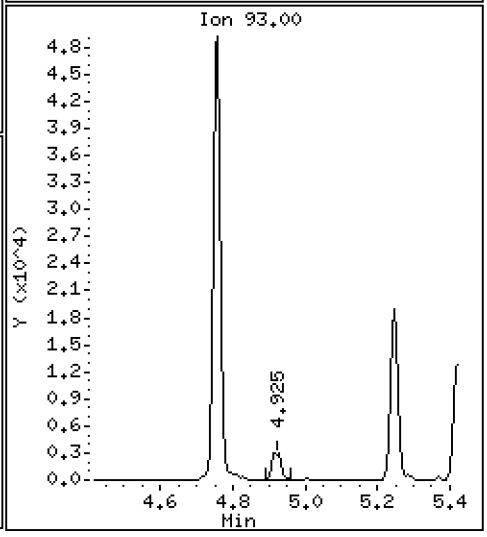


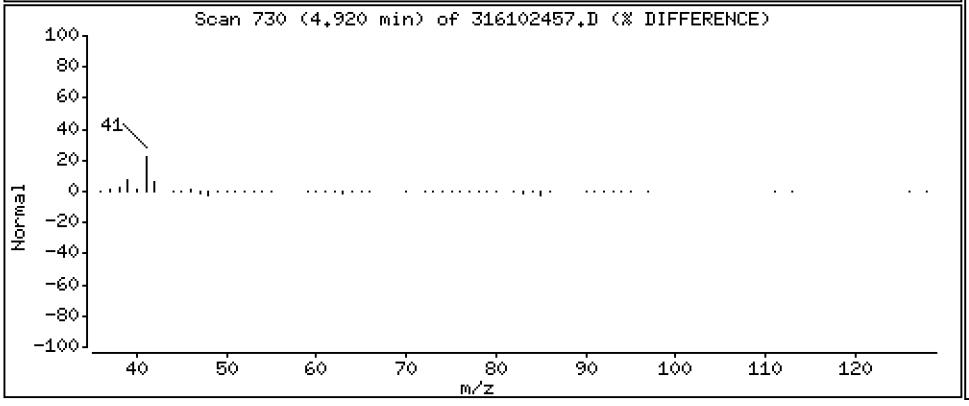












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 77

Date : 25-OCT-2016 00:52

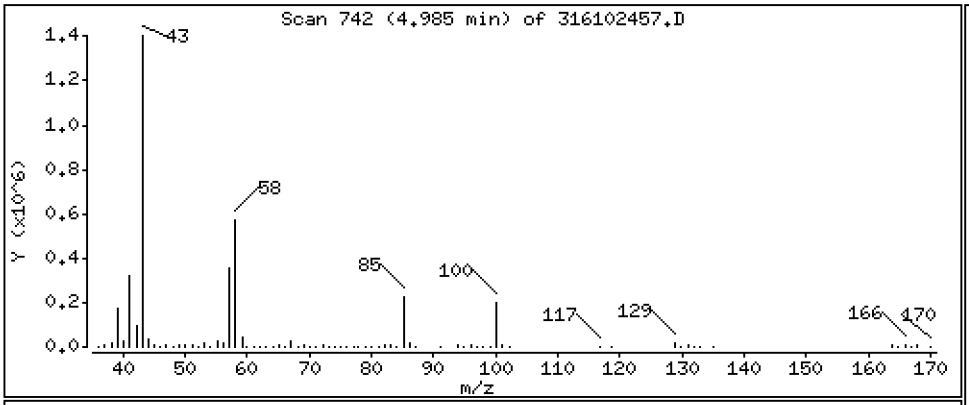
Client ID: Instrument: ms03.i

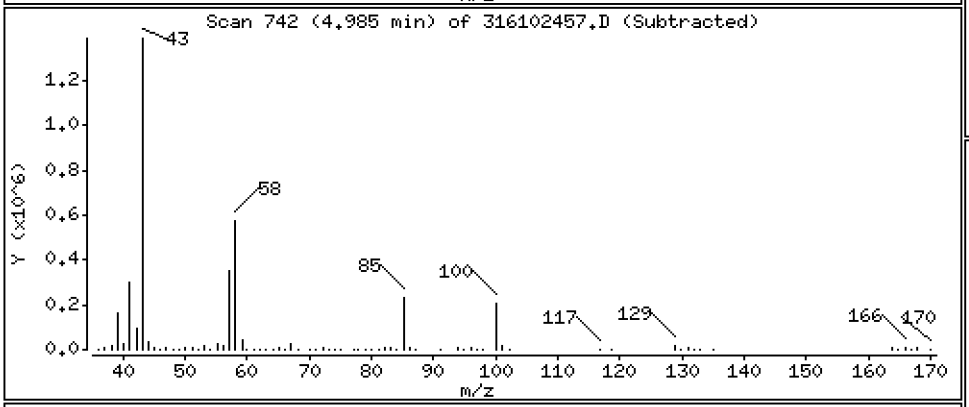
Sample Info: 1237;;1;1;4;;;

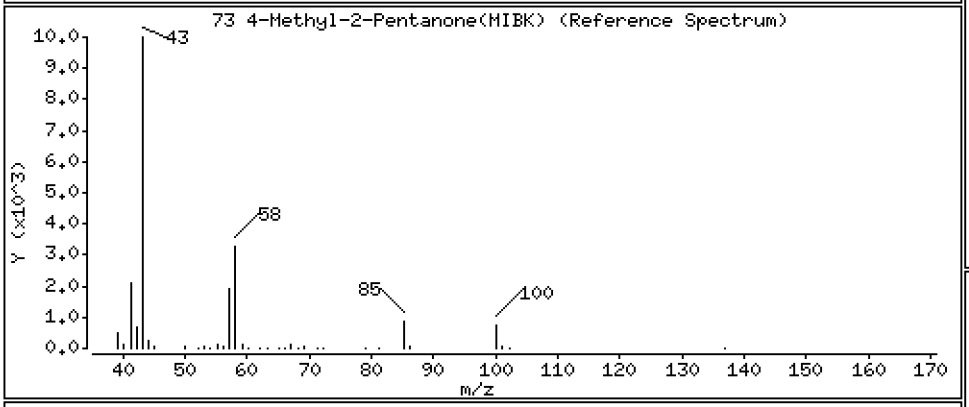
Purge Volume: 5.0 Operator: CJG

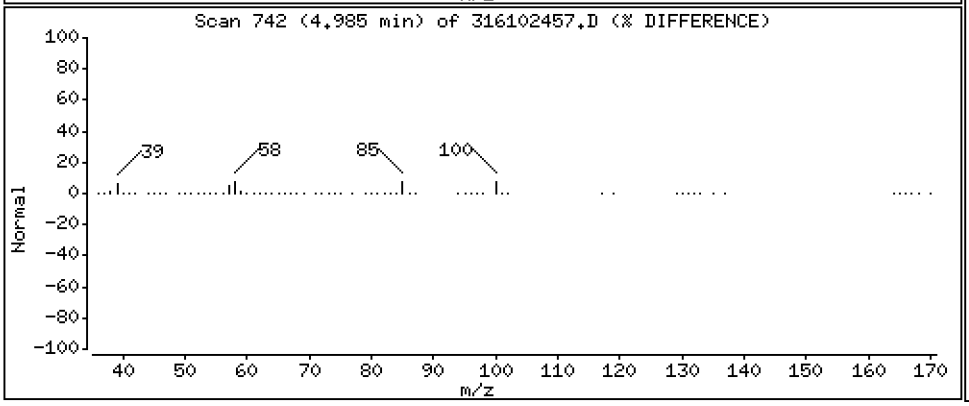
Column phase: DB-VRX Column diameter: 0.25

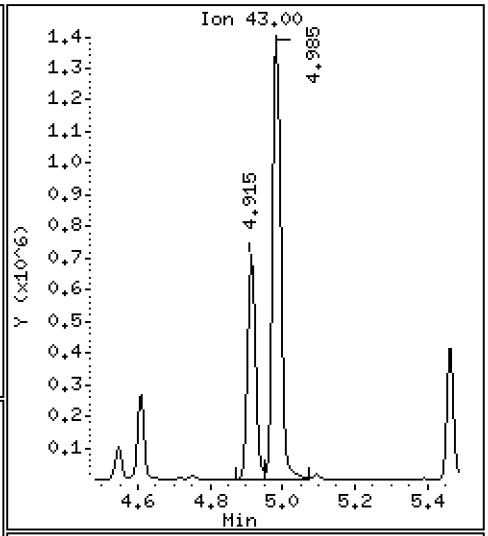
73 4-Methyl-2-Pentanone(MIBK) Concentration: 256.899 ug/L

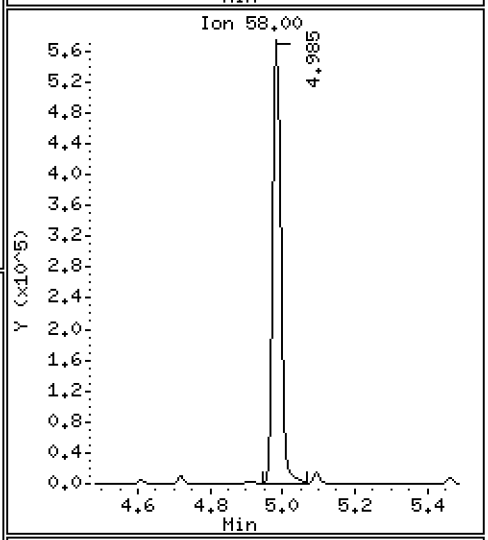


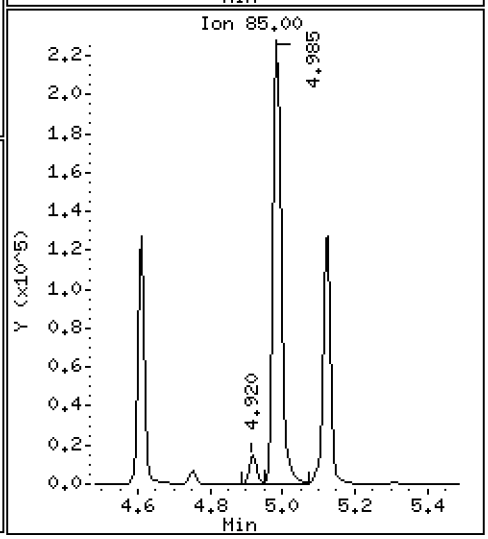












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 78

Date : 25-OCT-2016 00:52

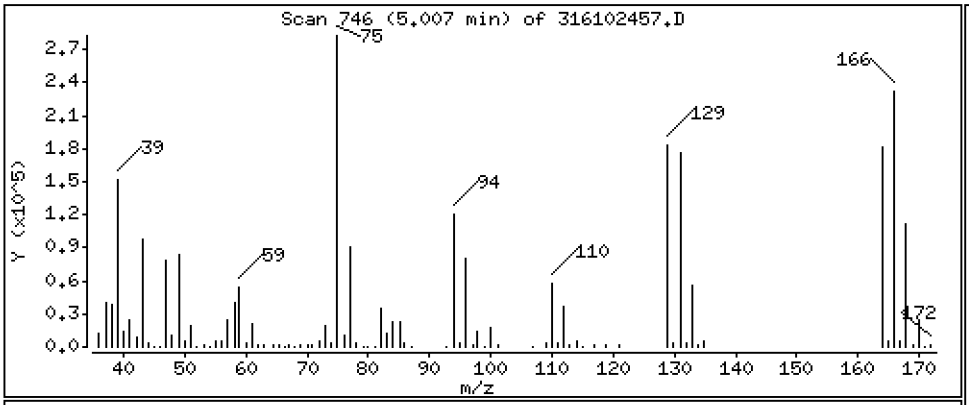
Client ID: Instrument: ms03.i

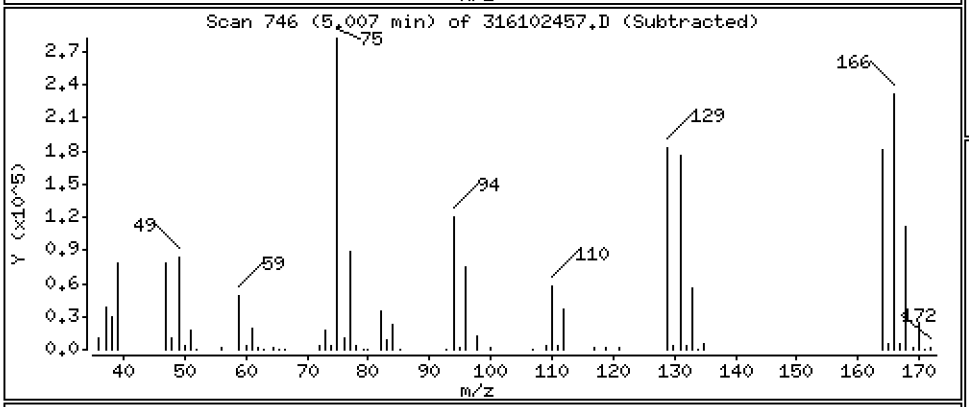
Sample Info: 1237;;1;1;4;;;

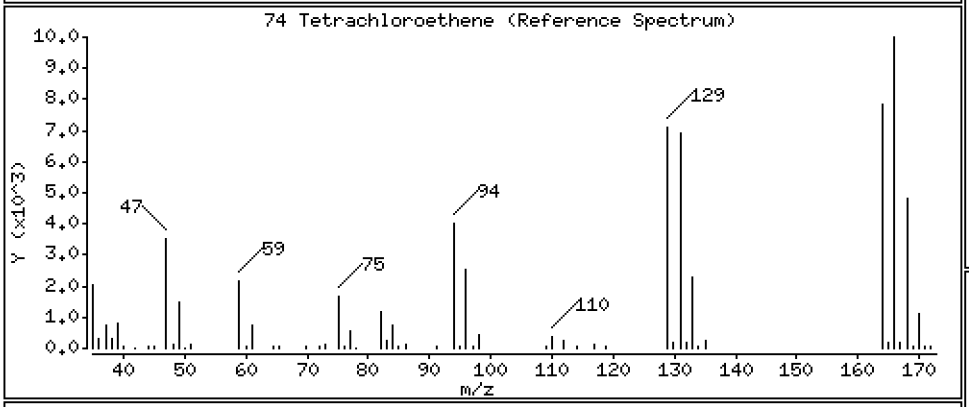
Purge Volume: 5.0 Operator: CJG

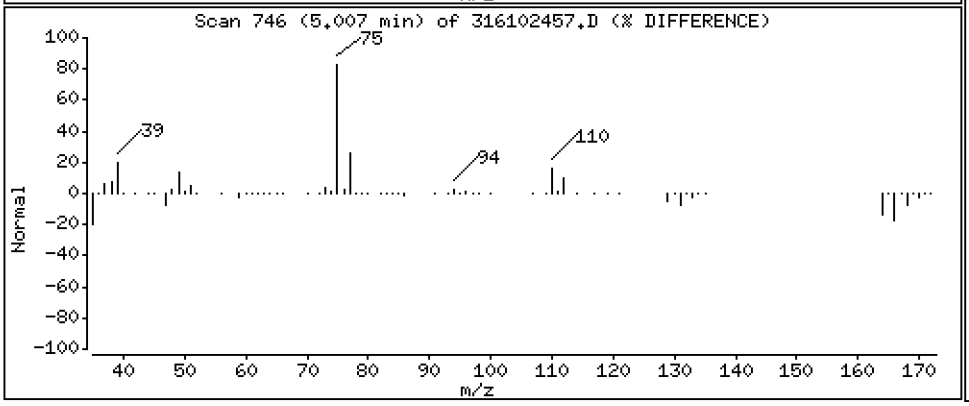
Column phase: DB-VRX Column diameter: 0.25

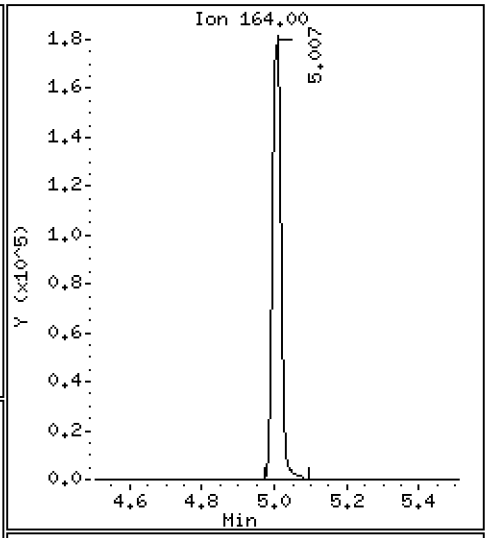
74 Tetrachloroethene Concentration: 50.5599 ug/L

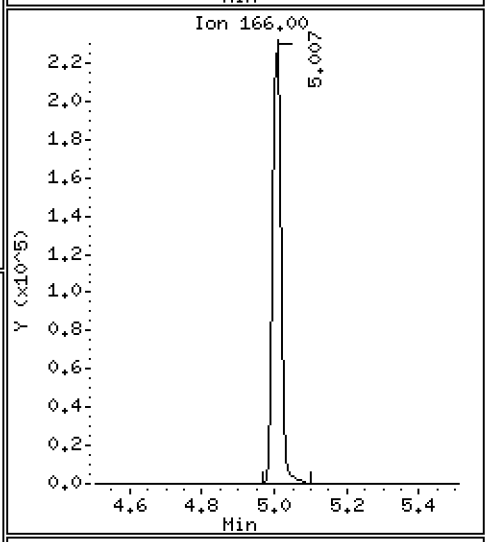


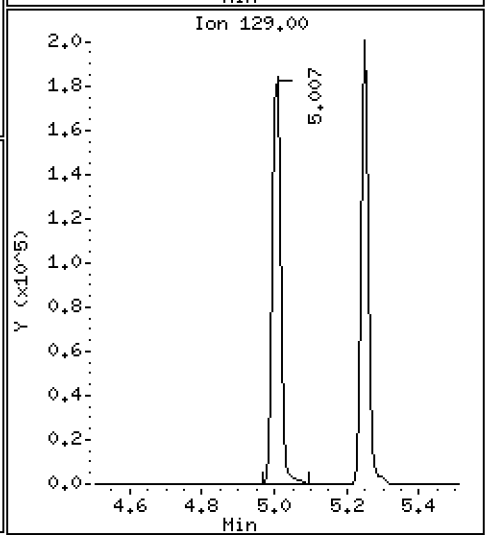












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 79

Date : 25-OCT-2016 00:52

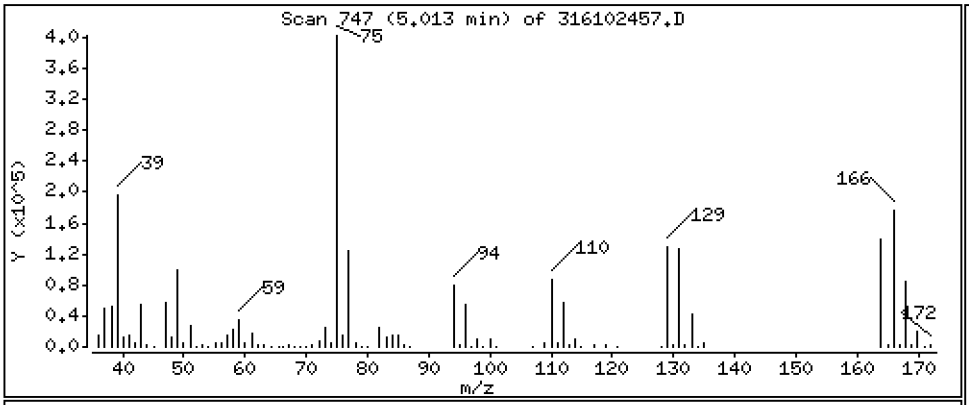
Client ID: Instrument: ms03.i

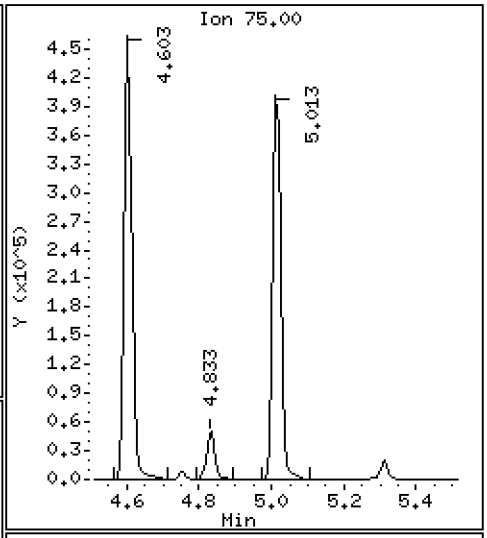
Sample Info: 1237;;1;1;4;;;

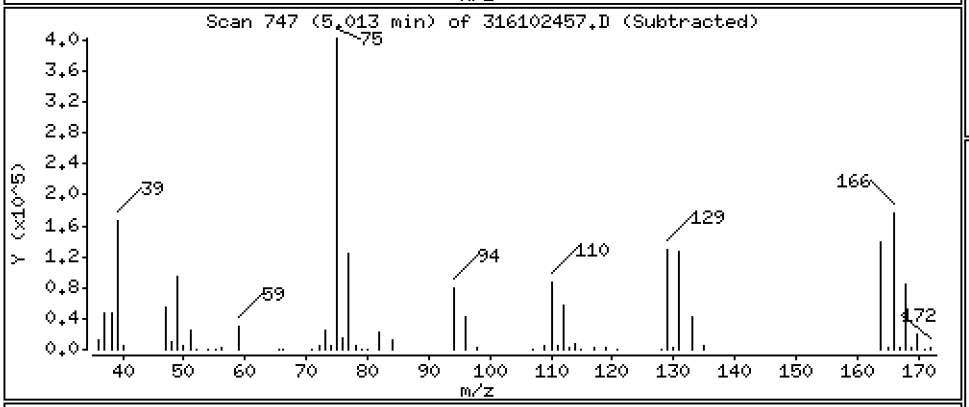
Purge Volume: 5.0 Operator: CJG

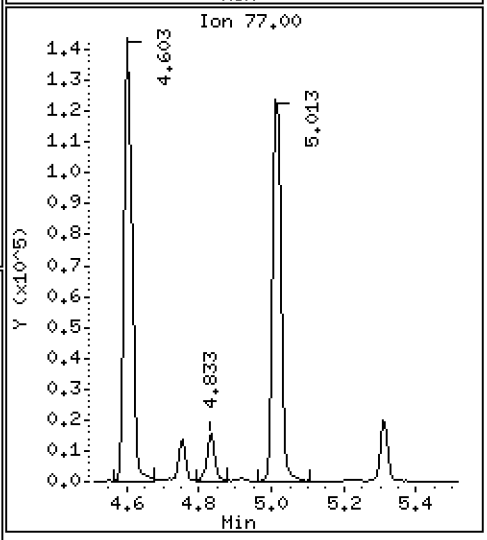
Column phase: DB-VRX Column diameter: 0.25

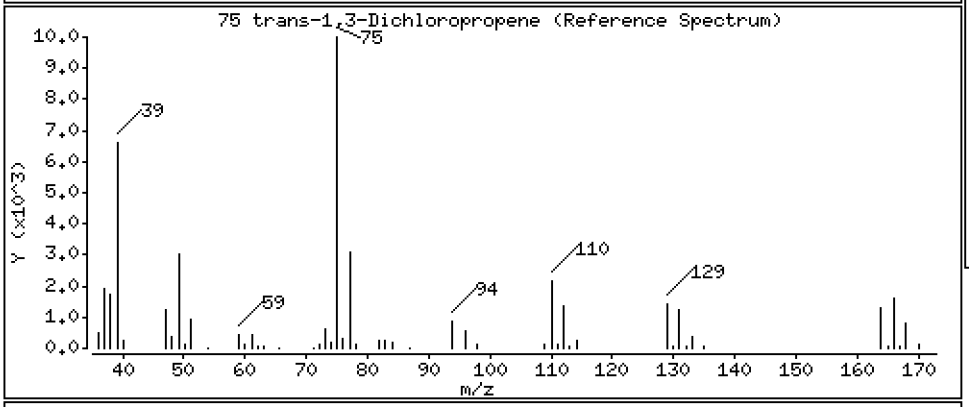
75 trans-1,3-Dichloropropene Concentration: 49.5767 ug/L

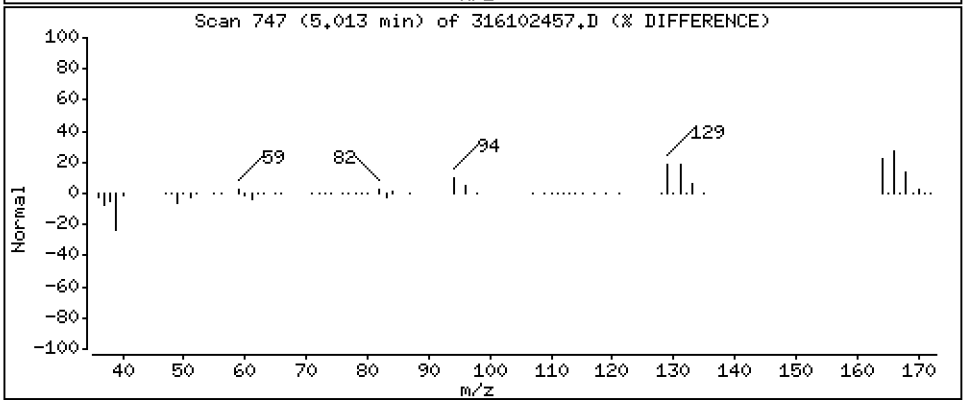












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 80

Date : 25-OCT-2016 00:52

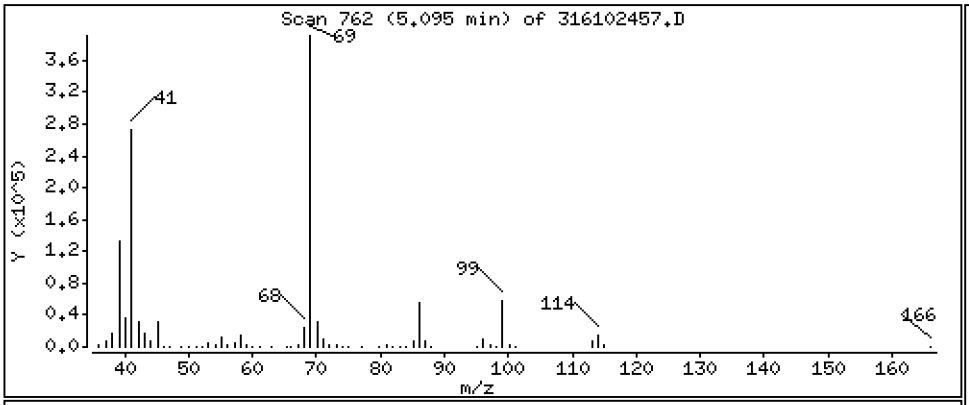
Client ID: Instrument: ms03.i

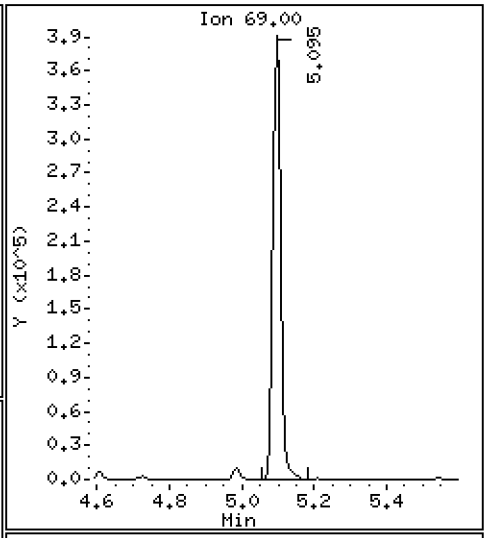
Sample Info: 1237;;1;1;4;;;

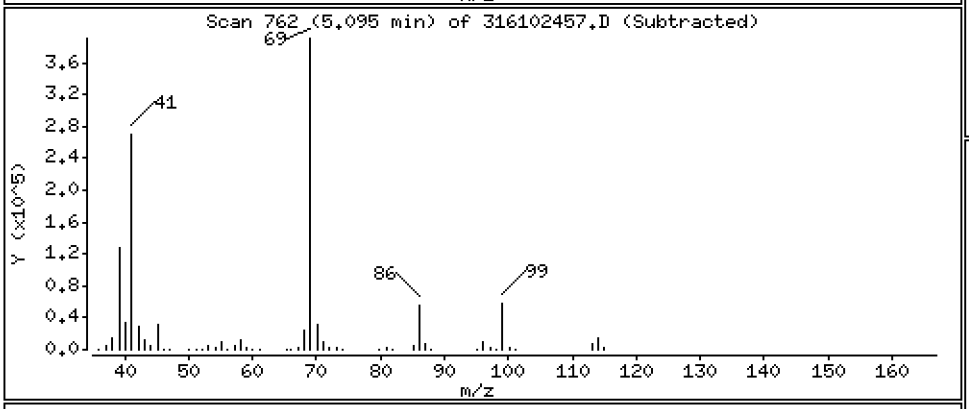
Purge Volume: 5.0 Operator: CJG

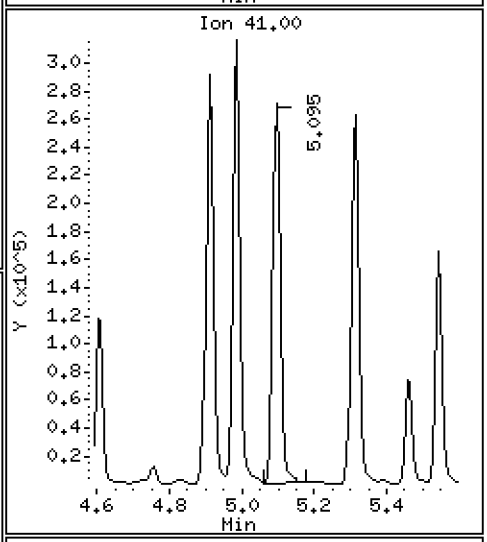
Column phase: DB-VRX Column diameter: 0.25

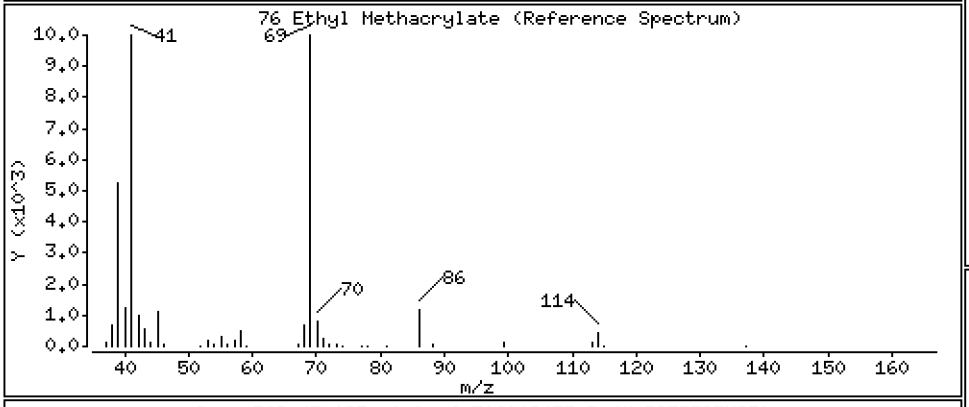
76 Ethyl Methacrylate Concentration: 50.2242 ug/L

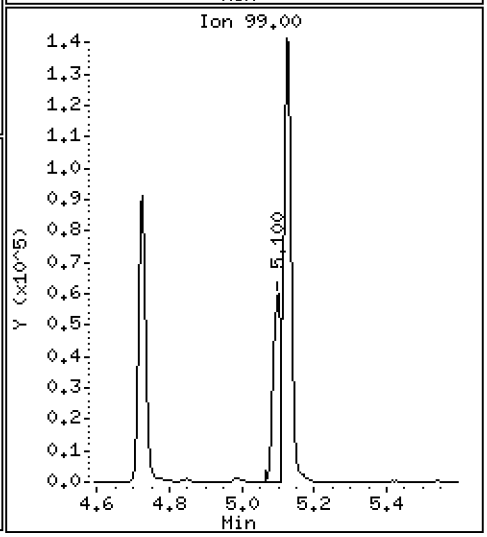


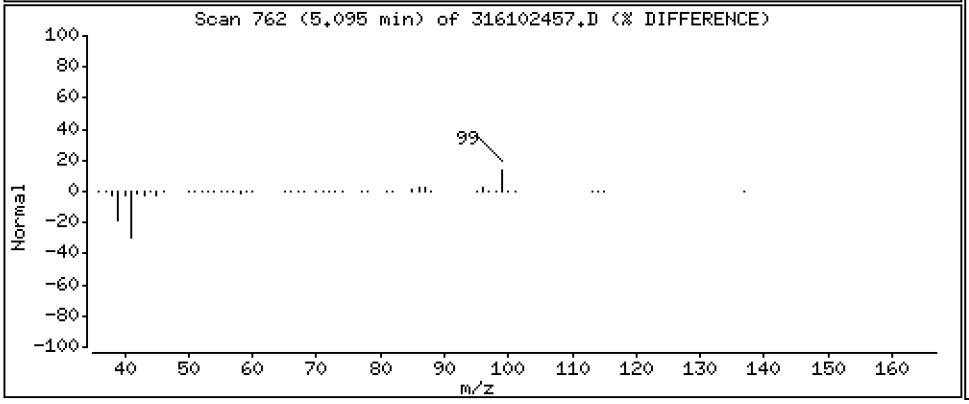












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 81

Date : 25-OCT-2016 00:52

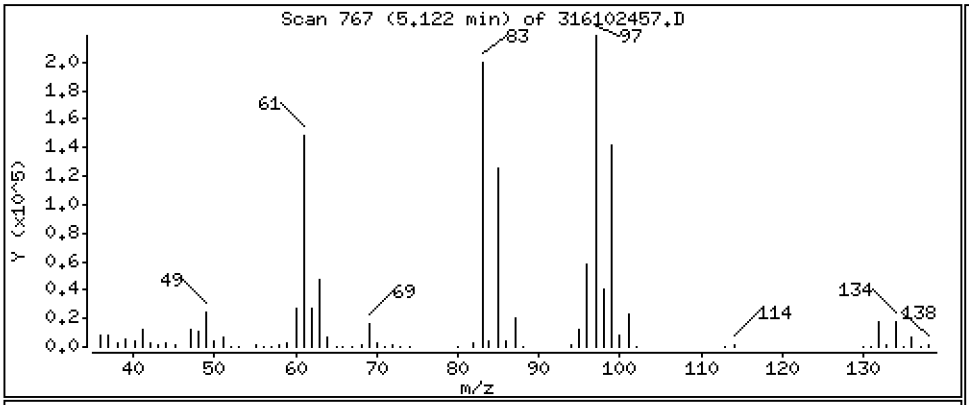
Client ID: Instrument: ms03.i

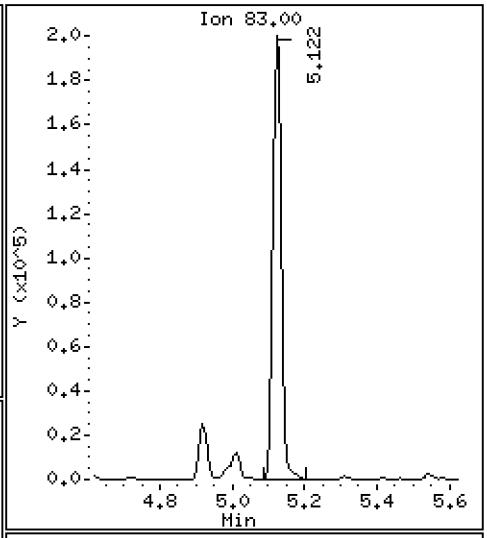
Sample Info: 1237;;1;1;4;;;

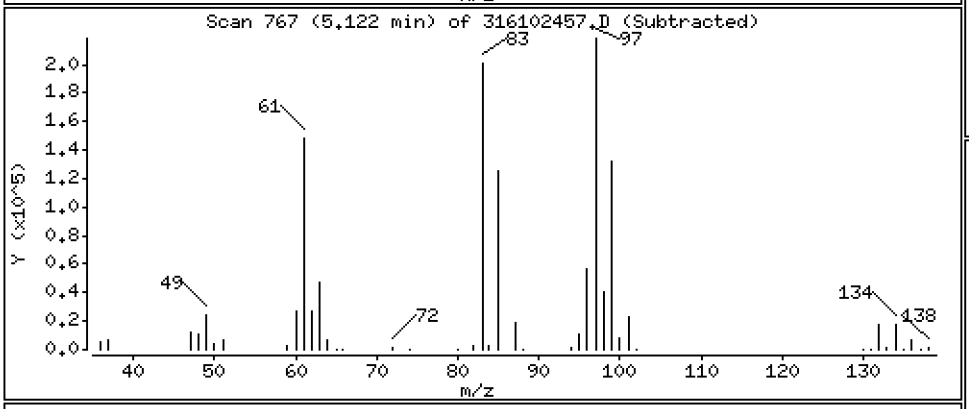
Purge Volume: 5.0 Operator: CJG

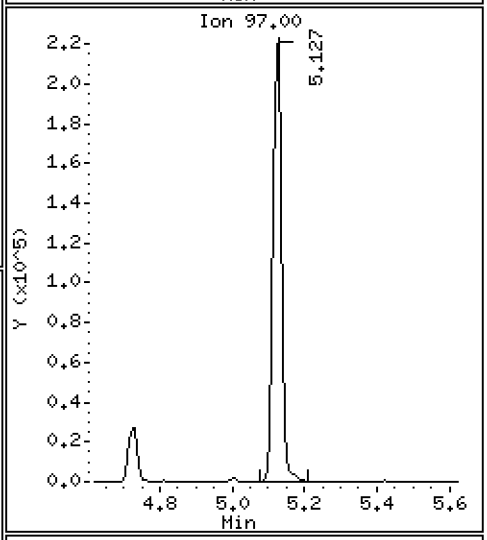
Column phase: DB-VRX Column diameter: 0.25

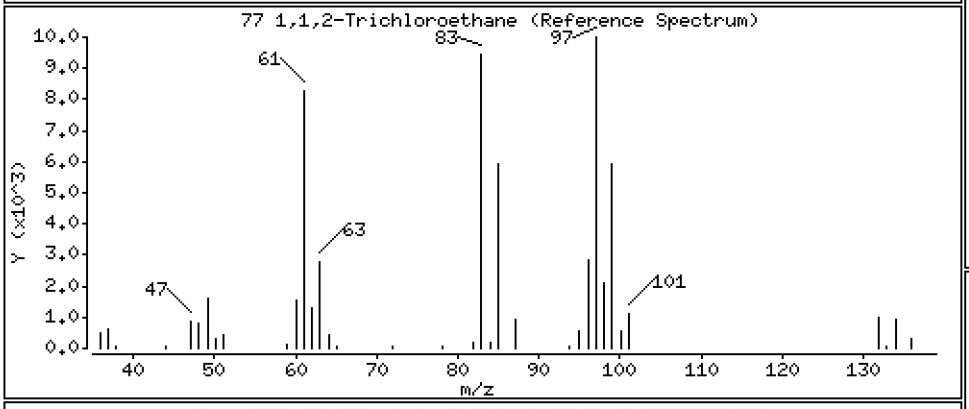
77 1,1,2-Trichloroethane Concentration: 50.5445 ug/L

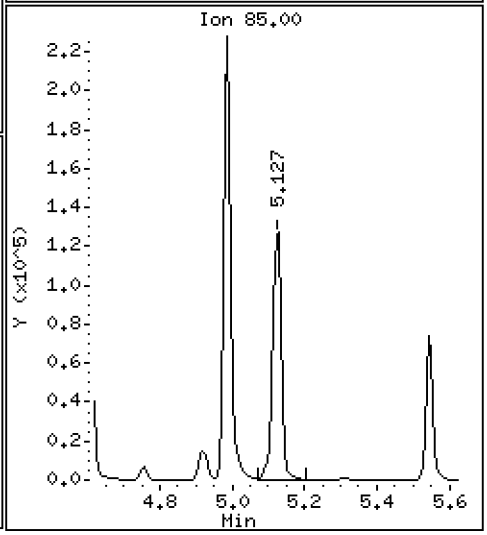


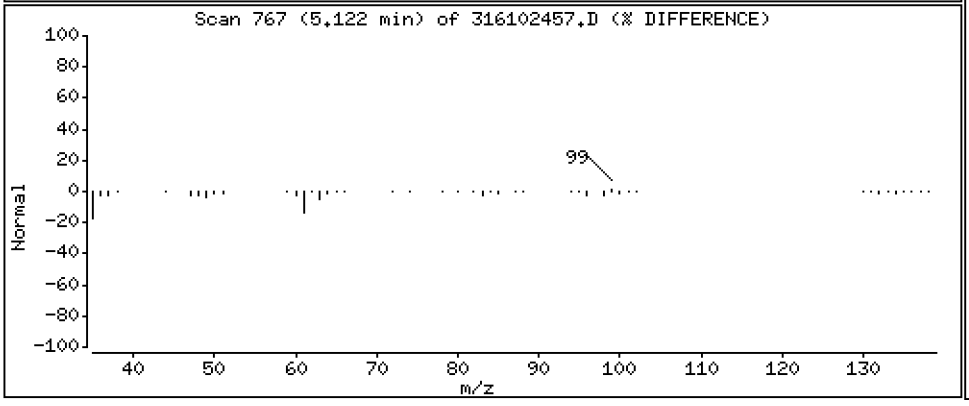












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 82

Date : 25-OCT-2016 00:52

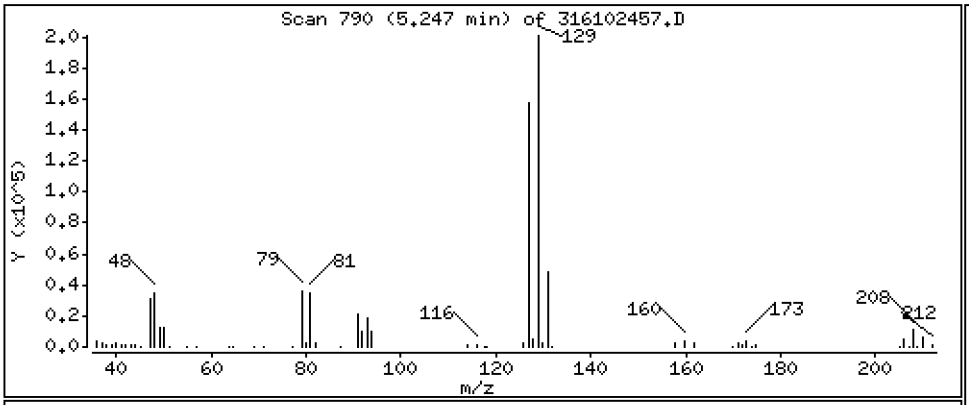
Client ID: Instrument: ms03.i

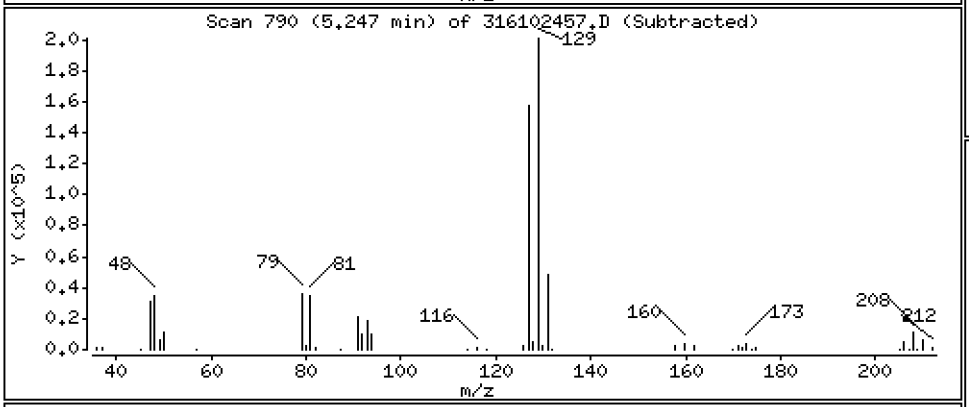
Sample Info: 1237;;1;1;4;;;

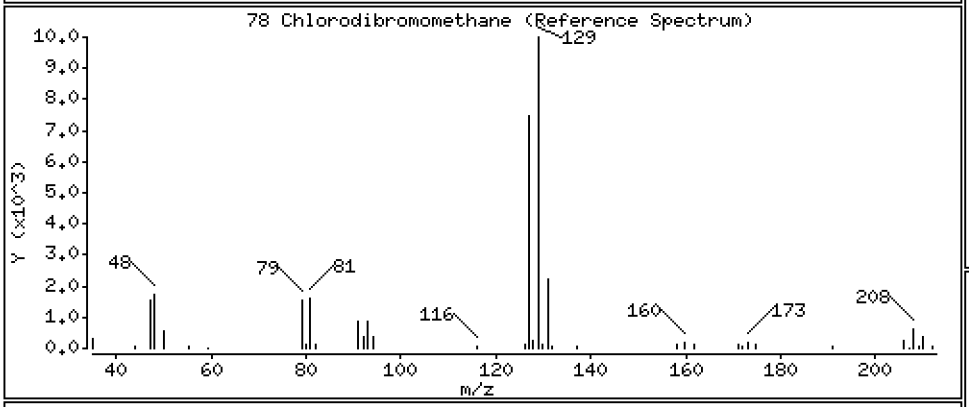
Purge Volume: 5.0 Operator: CJG

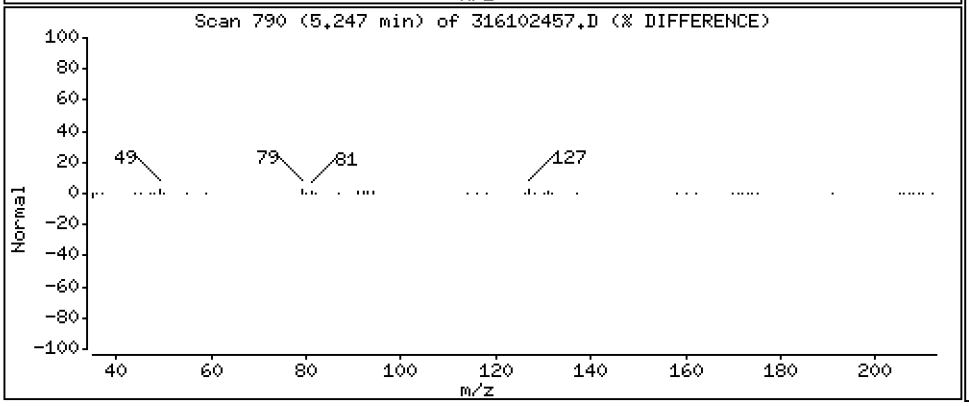
Column phase: DB-VRX Column diameter: 0.25

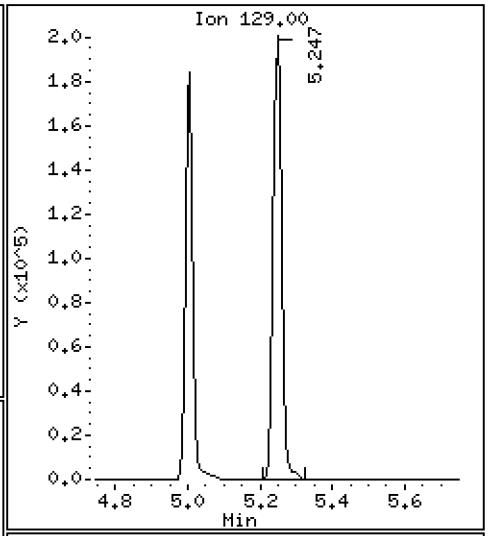
78 Chlorodibromomethane Concentration: 49.3791 ug/L

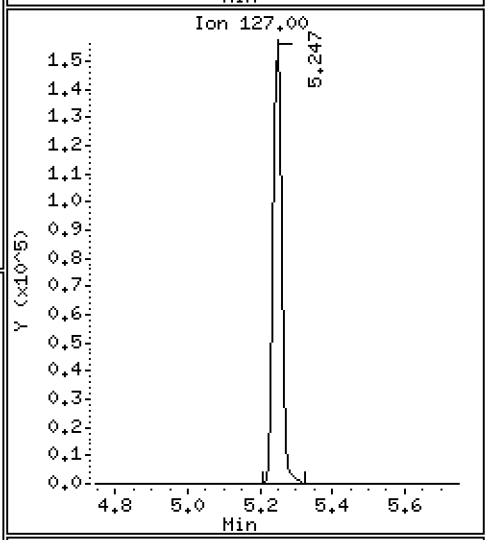


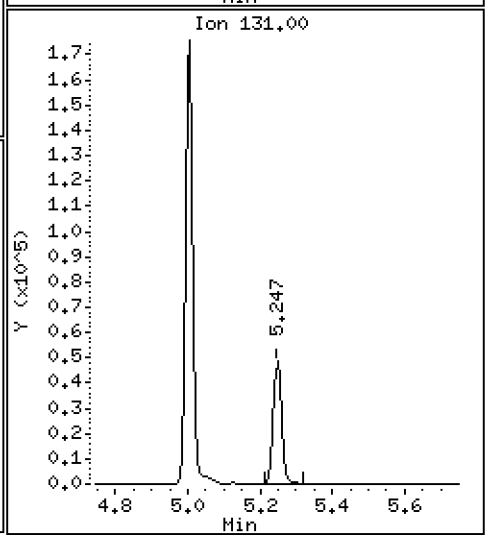












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 83

Date : 25-OCT-2016 00:52

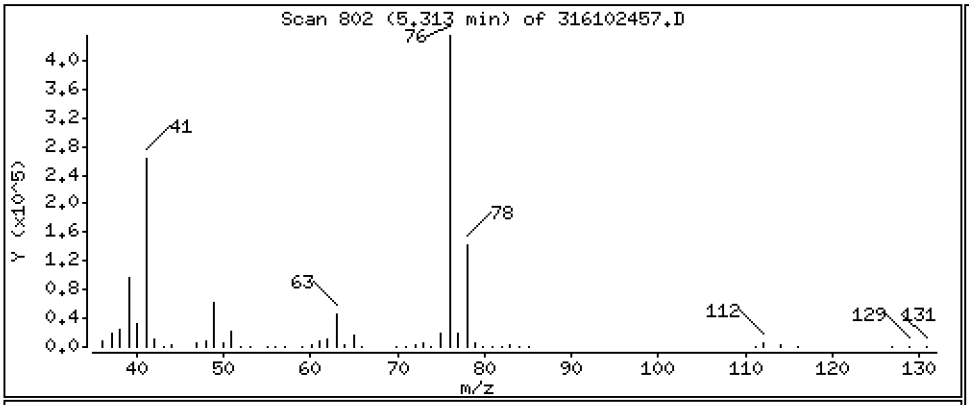
Client ID: Instrument: ms03.i

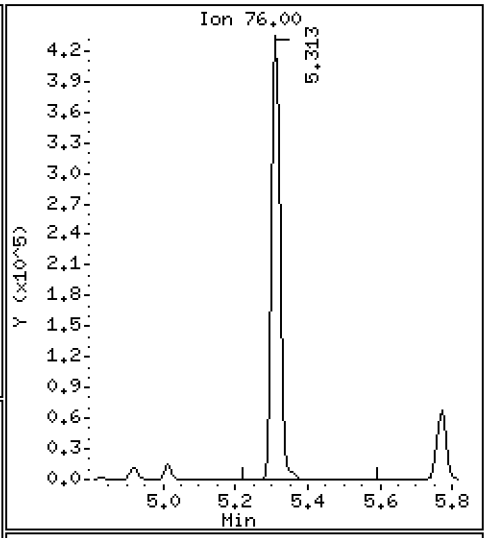
Sample Info: 1237;;1;1;4;;;

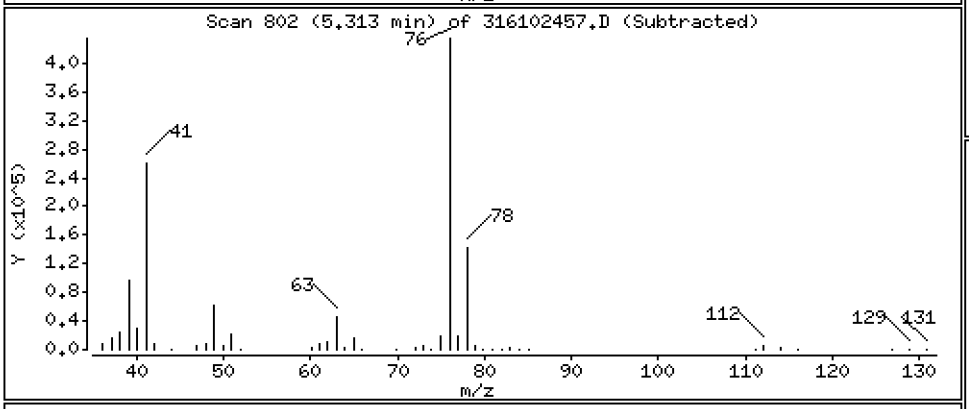
Purge Volume: 5.0 Operator: CJG

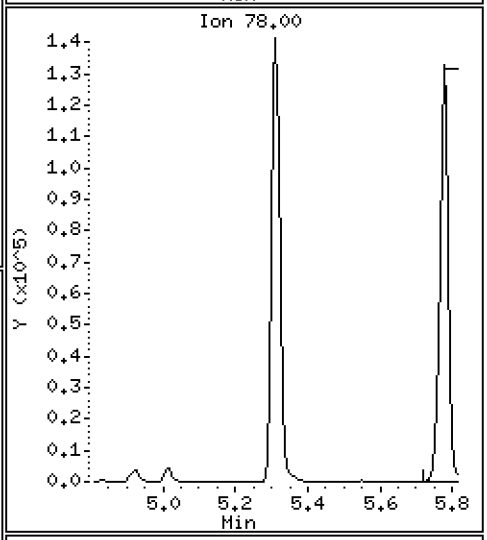
Column phase: DB-VRX Column diameter: 0.25

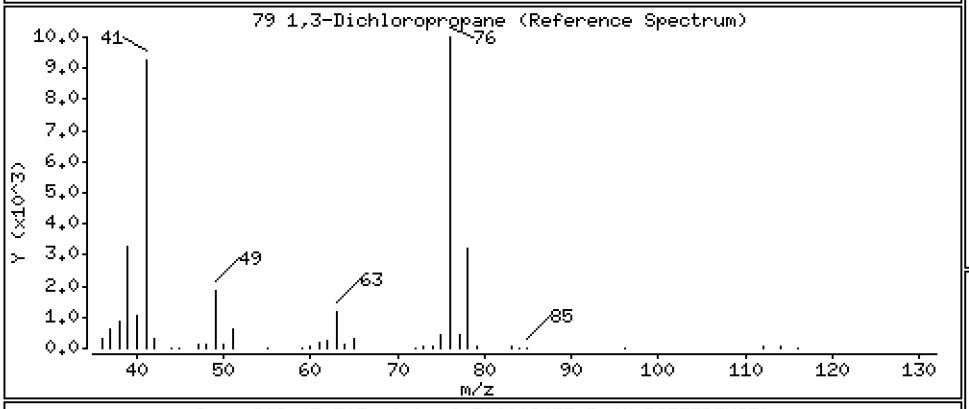
79 1,3-Dichloropropane Concentration: 50.7518 ug/L

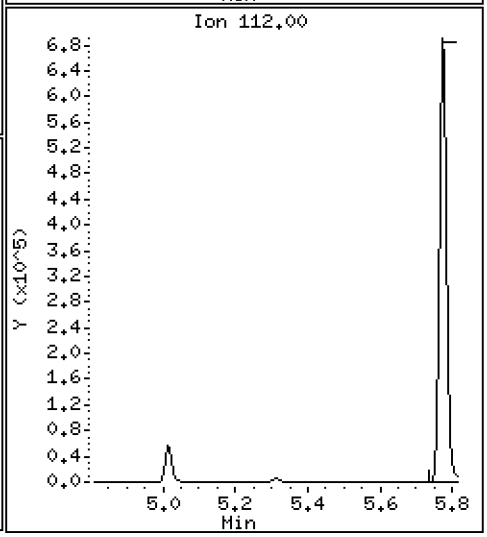


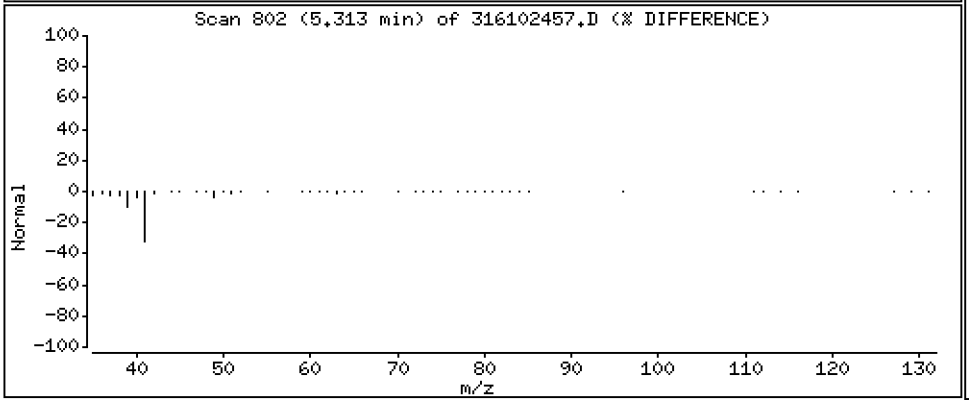












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 84

Date : 25-OCT-2016 00:52

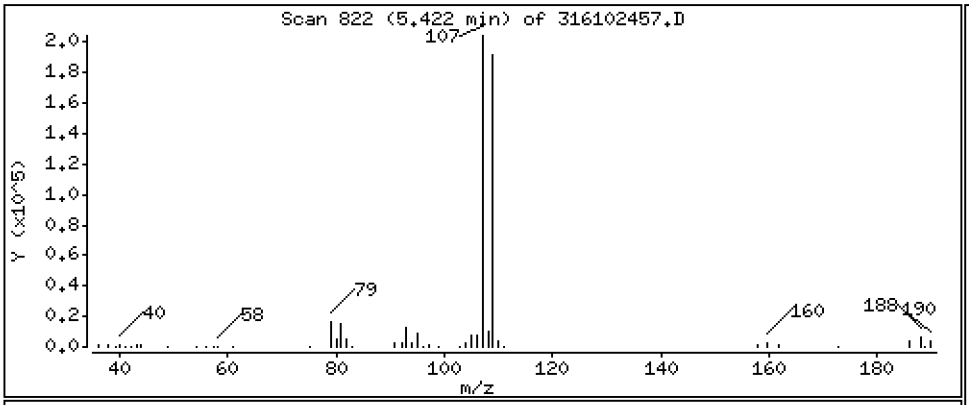
Client ID: Instrument: ms03.i

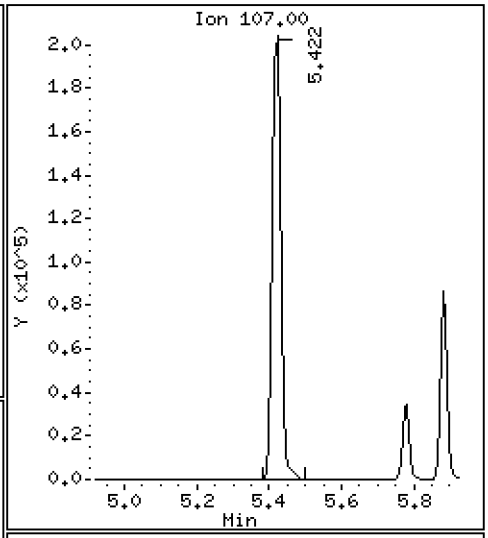
Sample Info: 1237;;1;1;4;;;

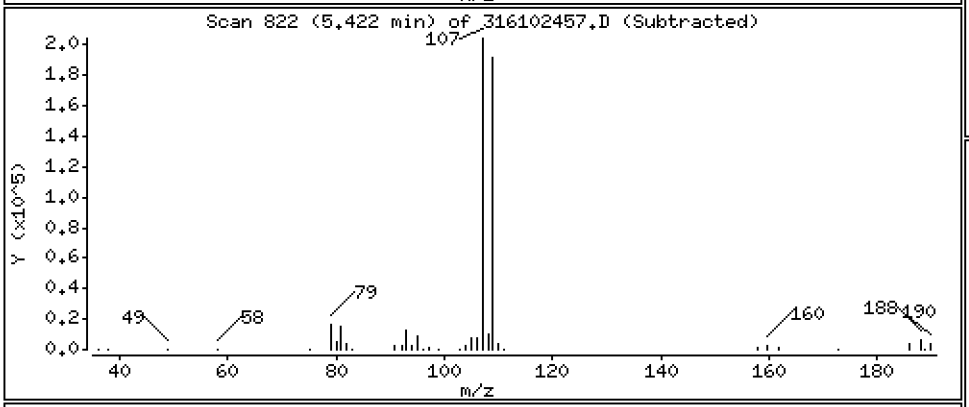
Purge Volume: 5.0 Operator: CJG

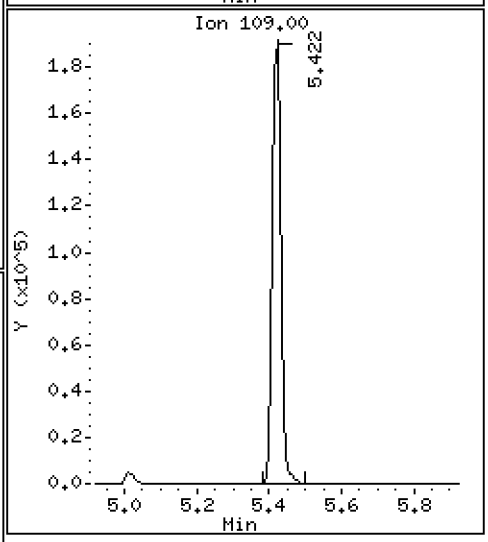
Column phase: DB-VRX Column diameter: 0.25

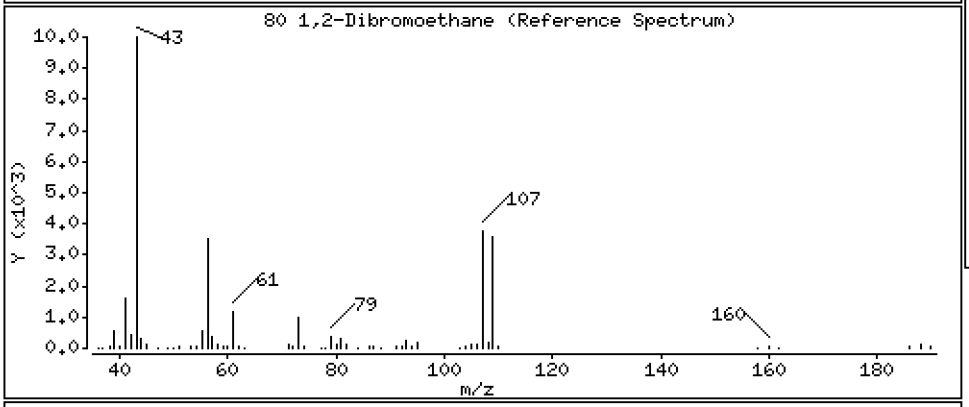
80 1,2-Dibromoethane Concentration: 50.0352 ug/L

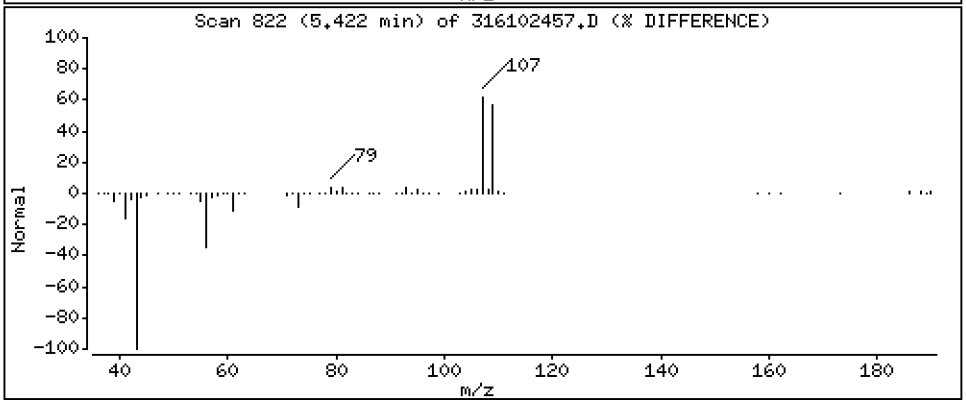












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 85

Date : 25-OCT-2016 00:52

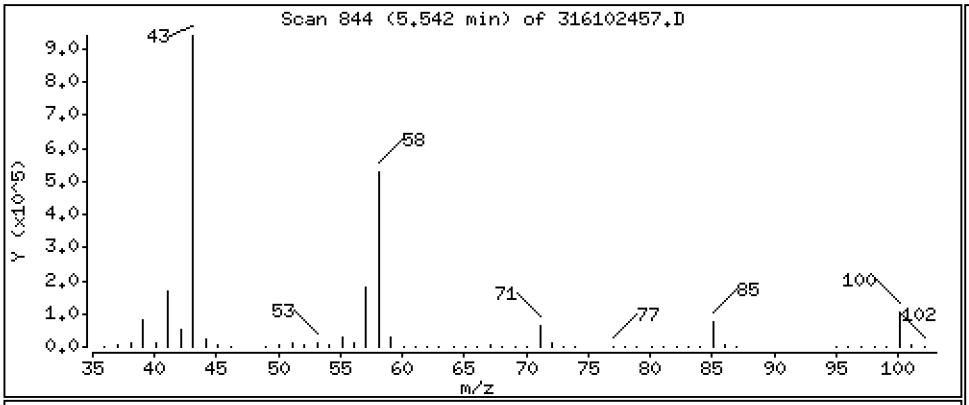
Client ID: Instrument: ms03.i

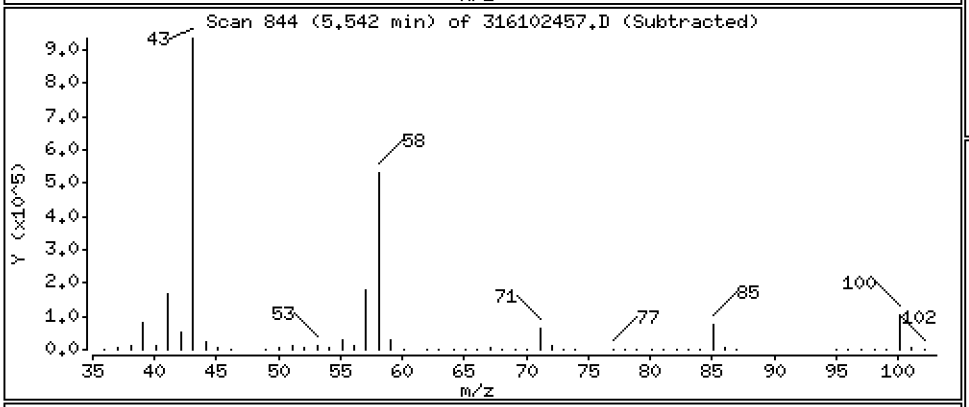
Sample Info: 1237;;1;1;4;;;

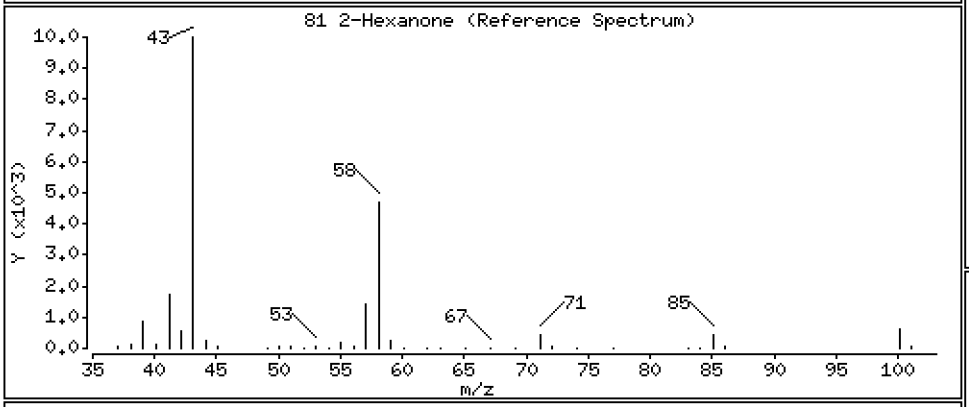
Purge Volume: 5.0 Operator: CJG

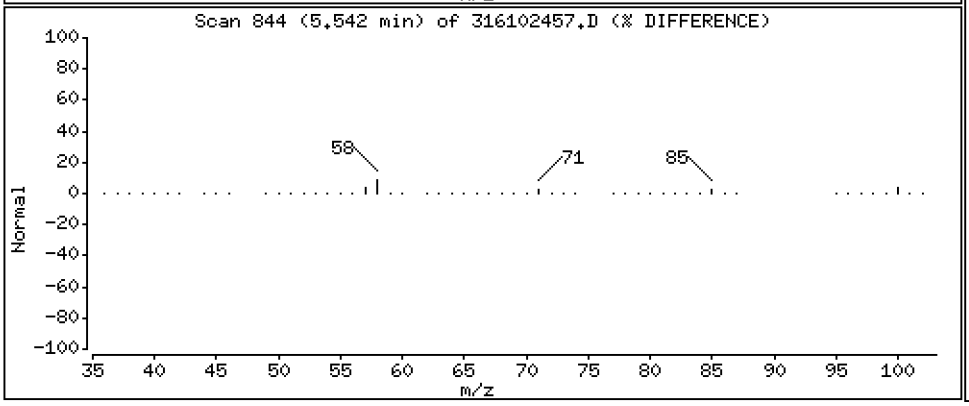
Column phase: DB-VRX Column diameter: 0.25

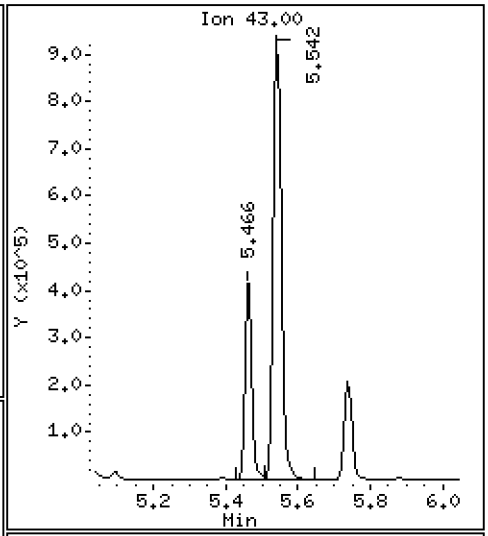
81 2-Hexanone Concentration: 255.973 ug/L

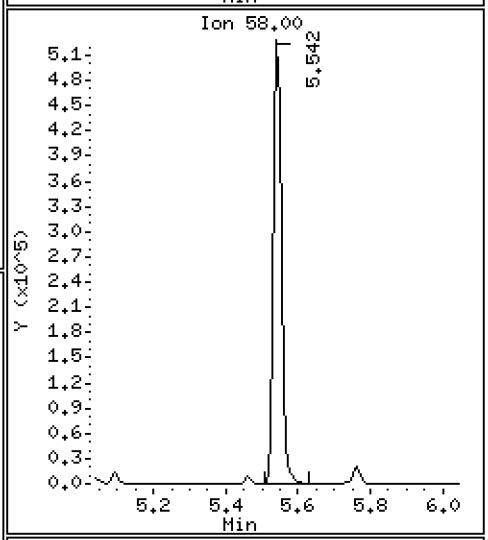


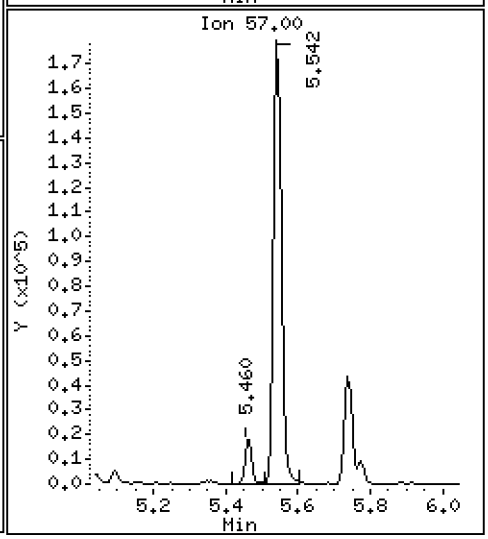












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 86

Date : 25-OCT-2016 00:52

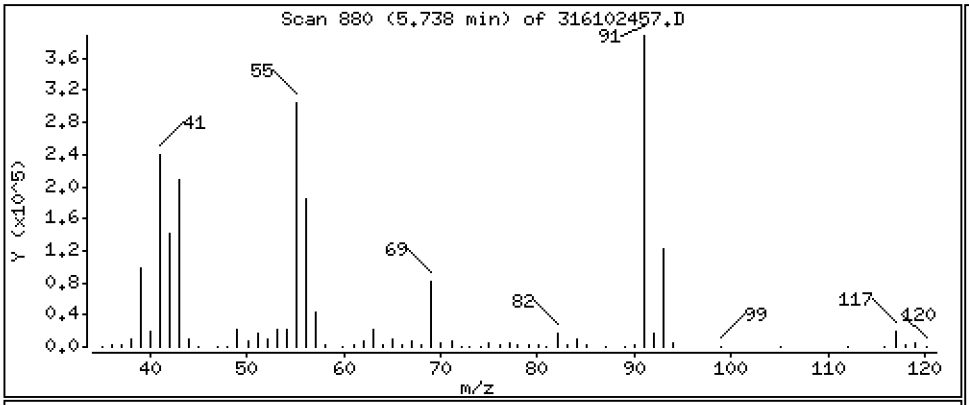
Client ID: Instrument: ms03.i

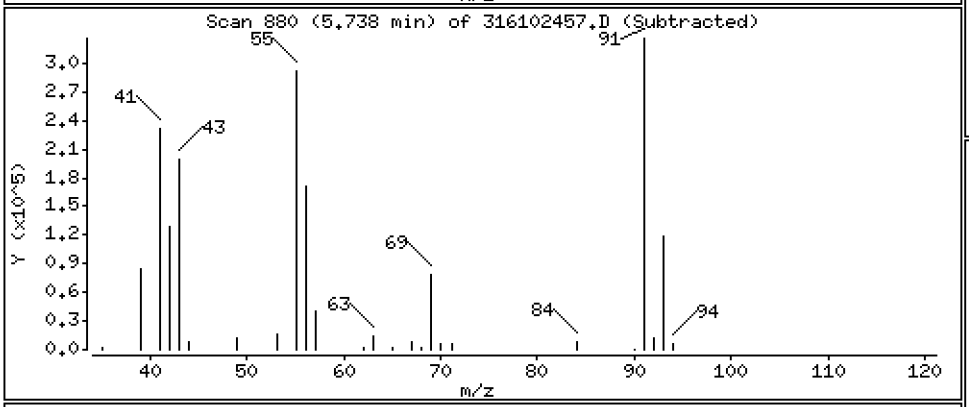
Sample Info: 1237;;1;1;4;;;

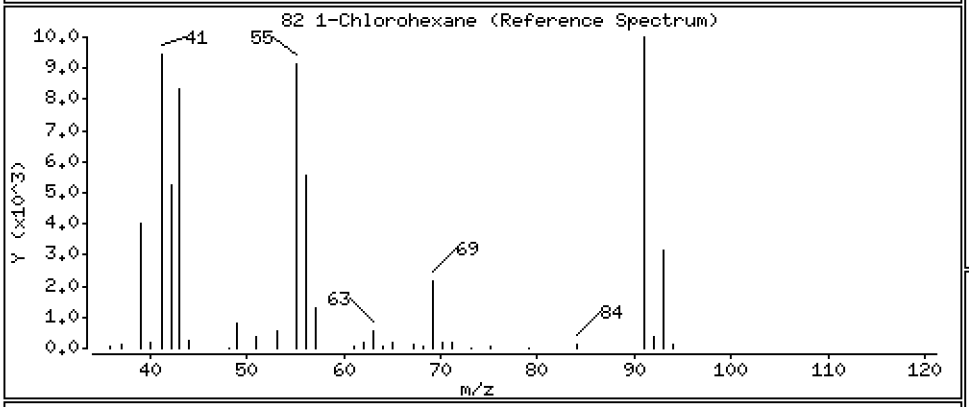
Purge Volume: 5.0 Operator: CJG

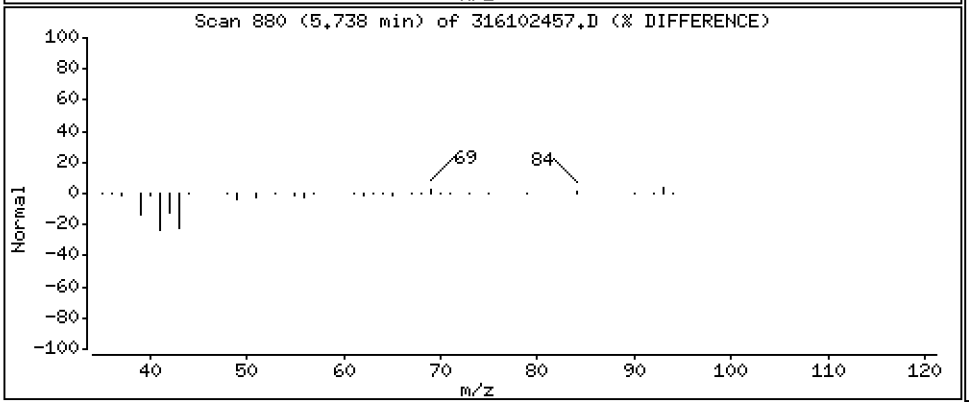
Column phase: DB-VRX Column diameter: 0.25

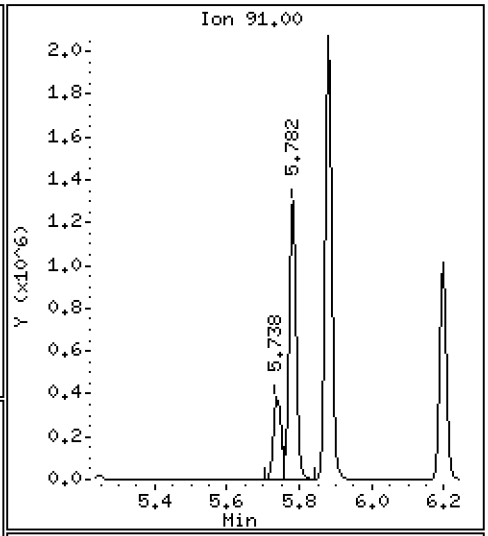
82 1-Chlorohexane Concentration: 47.2656 ug/L

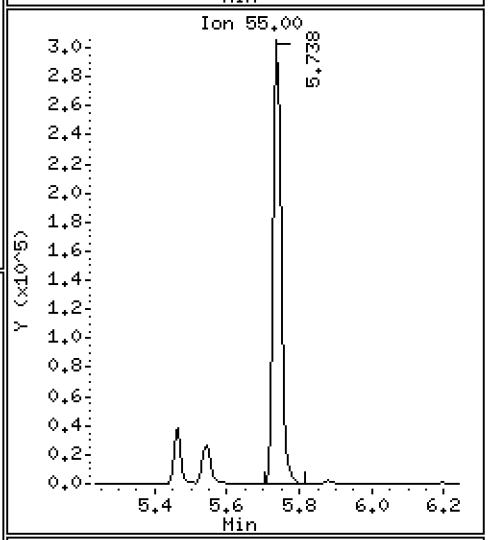


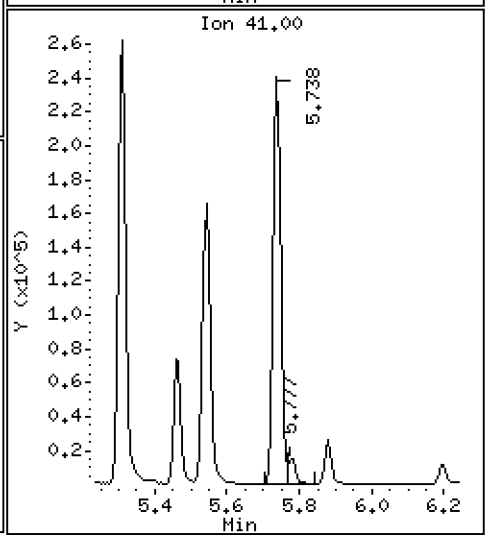












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 87

Date : 25-OCT-2016 00:52

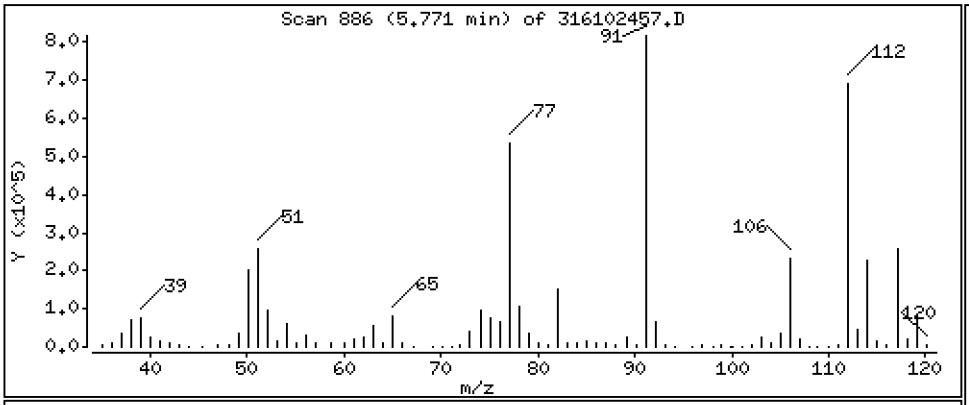
Client ID: Instrument: ms03.i

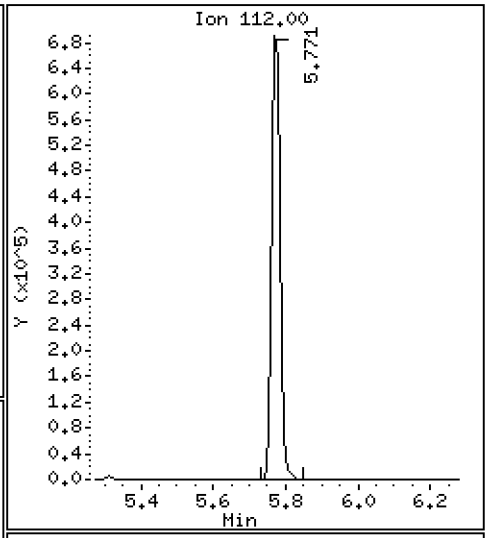
Sample Info: 1237;;1;1;4;;;

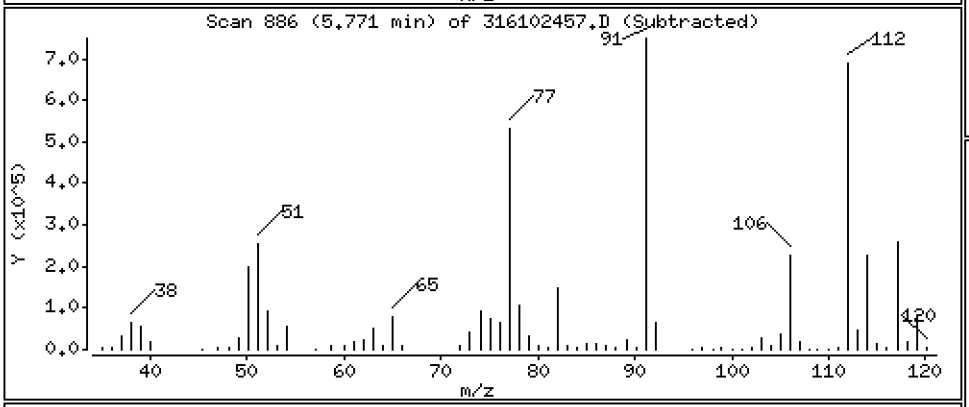
Purge Volume: 5.0 Operator: CJG

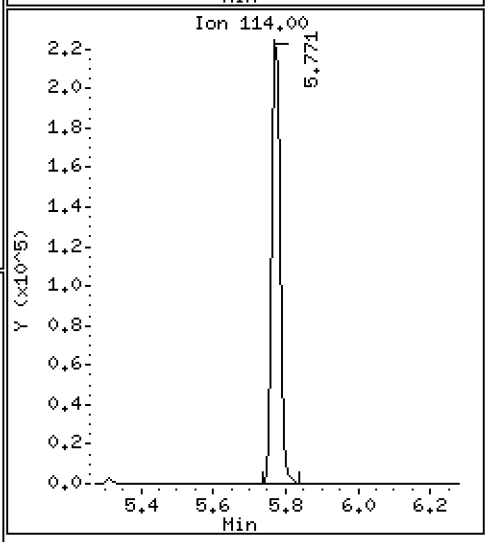
Column phase: DB-VRX Column diameter: 0.25

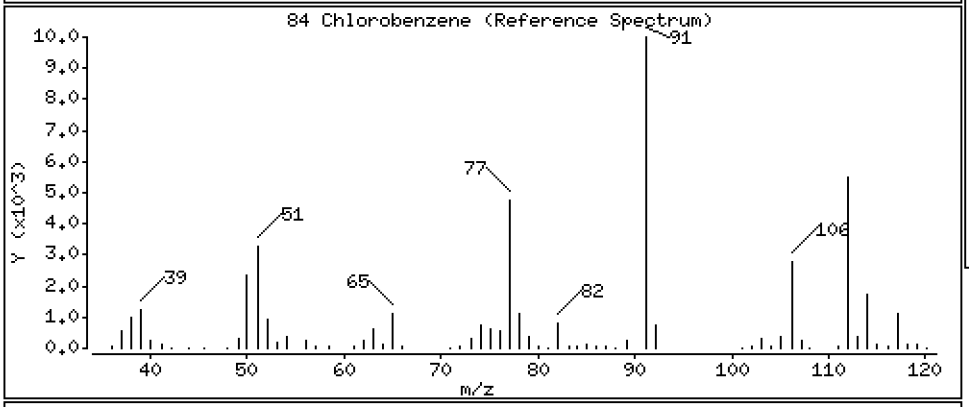
84 Chlorobenzene Concentration: 50.0179 ug/L

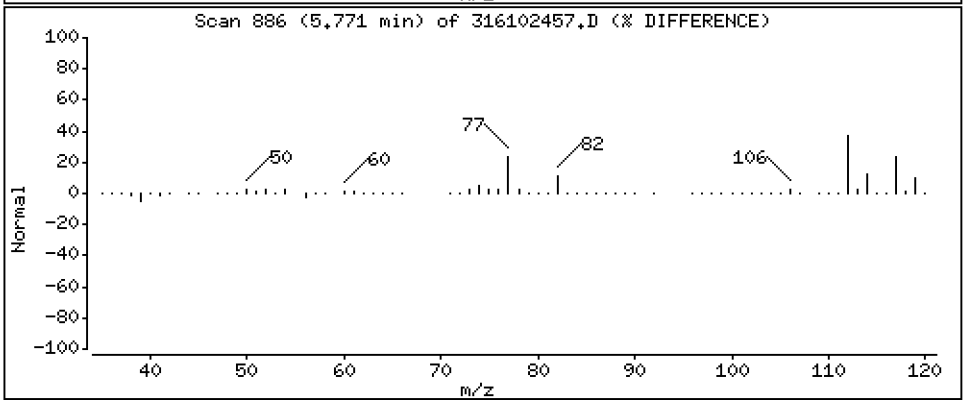












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 88

Date : 25-OCT-2016 00:52

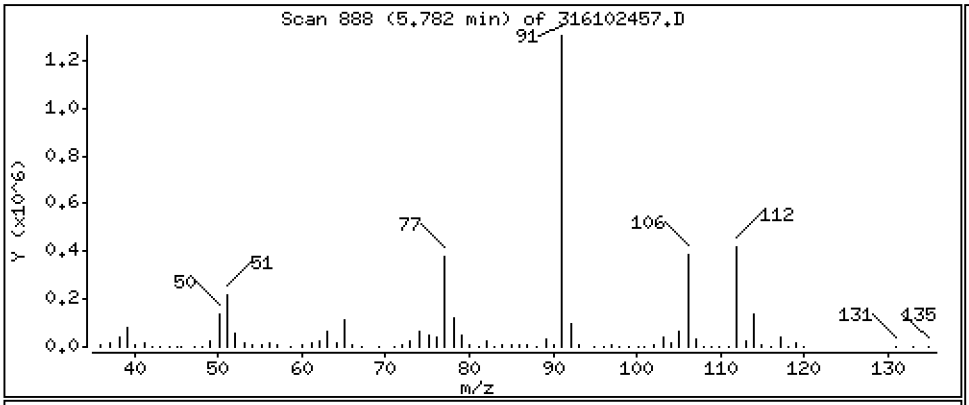
Client ID: Instrument: ms03.i

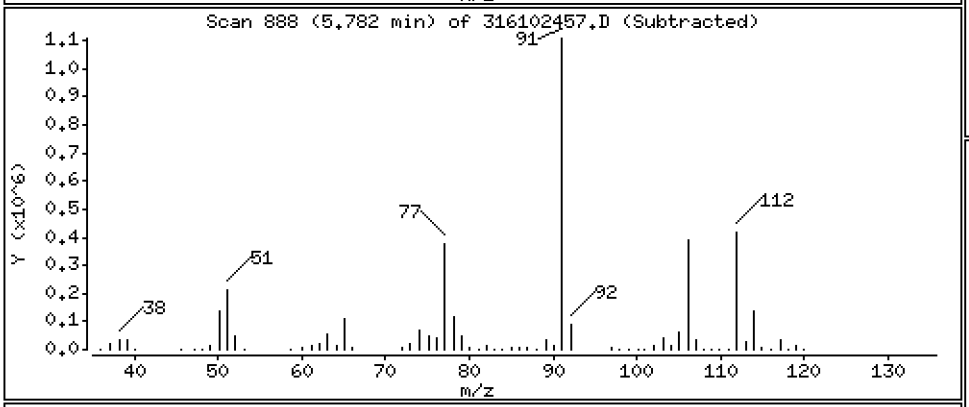
Sample Info: 1237;;1;1;4;;;

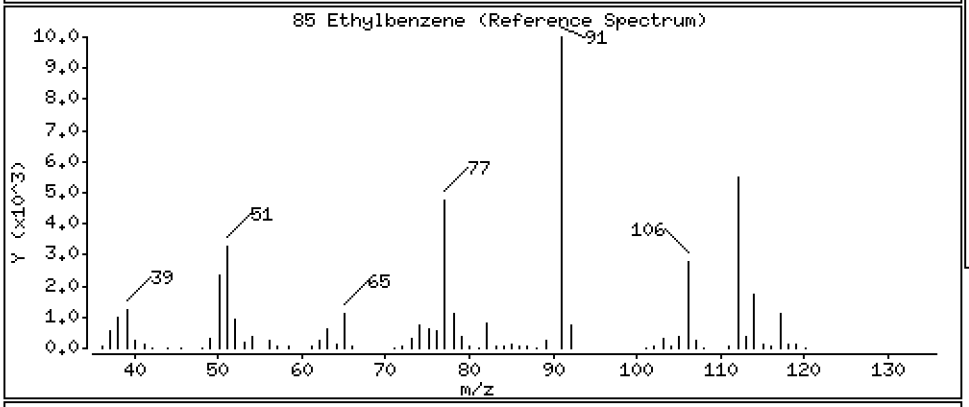
Purge Volume: 5.0 Operator: CJG

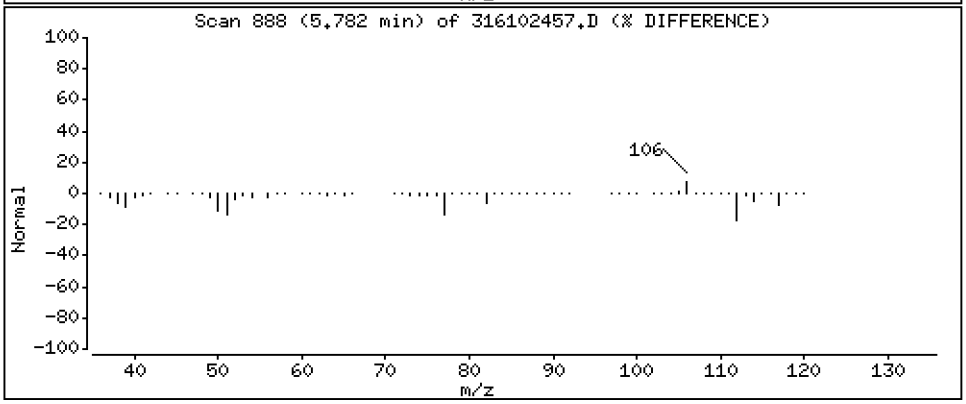
Column phase: DB-VRX Column diameter: 0.25

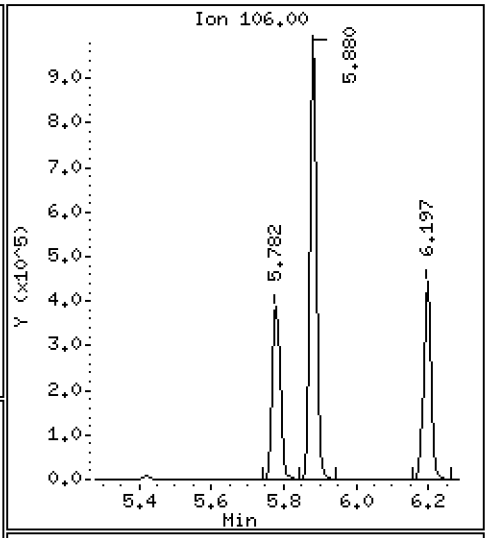
85 Ethylbenzene Concentration: 49.7156 ug/L

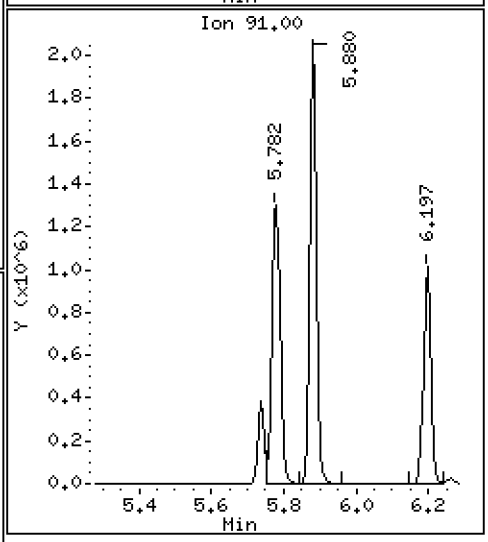












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 89

Date : 25-OCT-2016 00:52

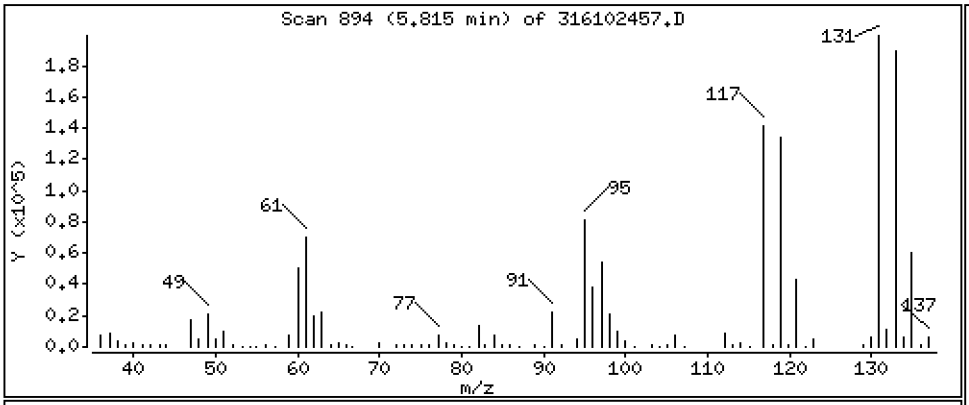
Client ID: Instrument: ms03.i

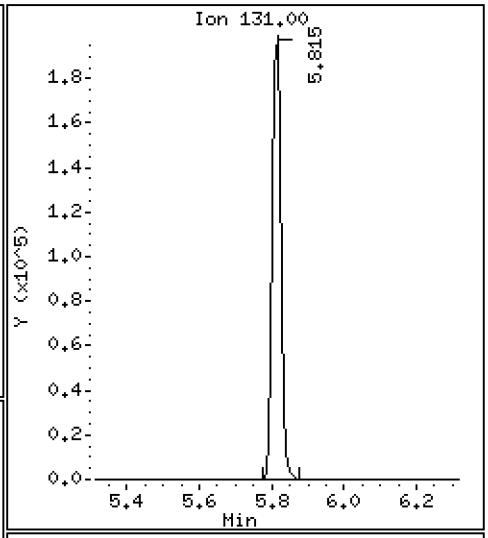
Sample Info: 1237;;1;1;4;;;

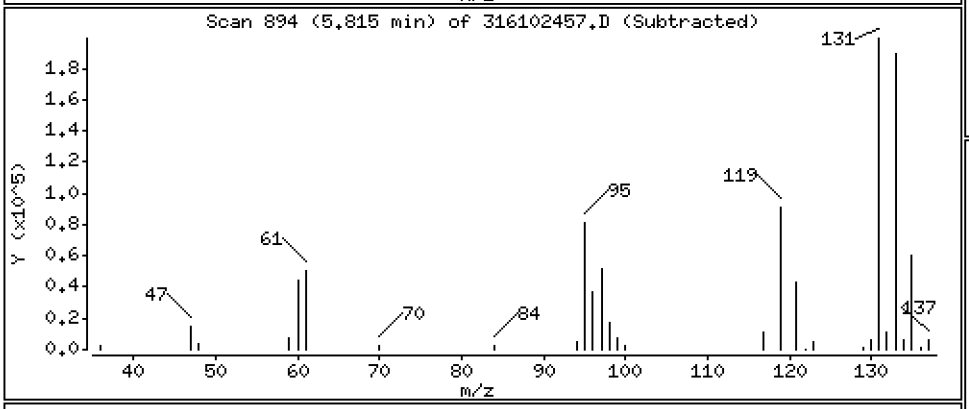
Purge Volume: 5.0 Operator: CJG

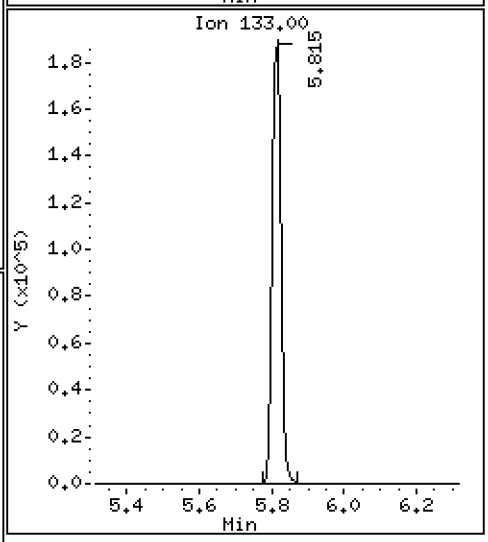
Column phase: DB-VRX Column diameter: 0.25

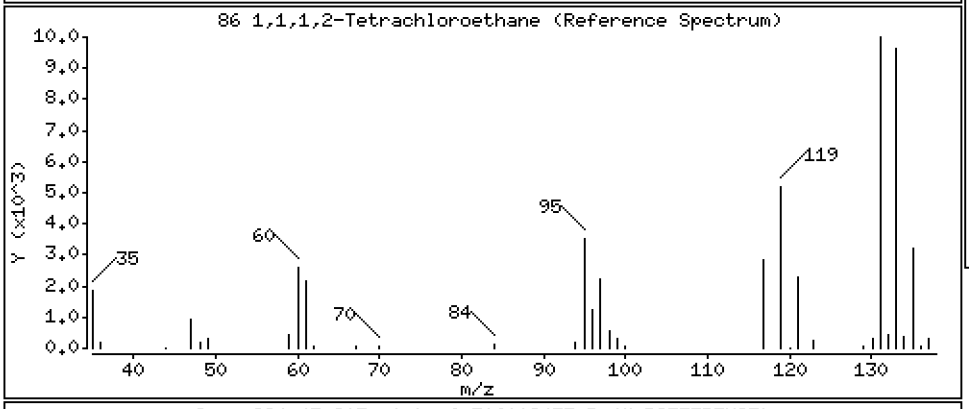
86 1,1,1,2-Tetrachloroethane Concentration: 49.6438 ug/L

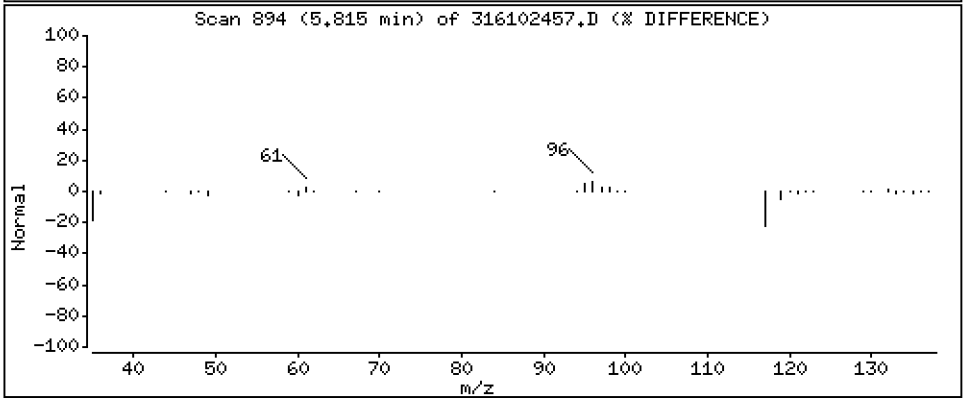












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 90

Date : 25-OCT-2016 00:52

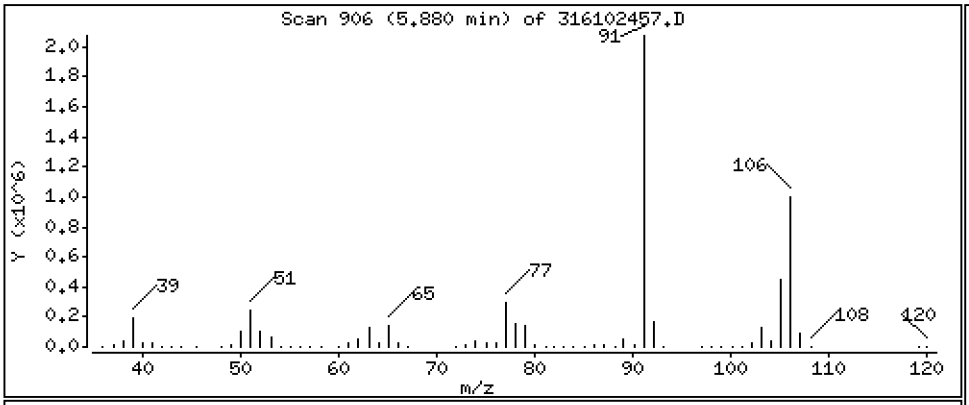
Client ID: Instrument: ms03.i

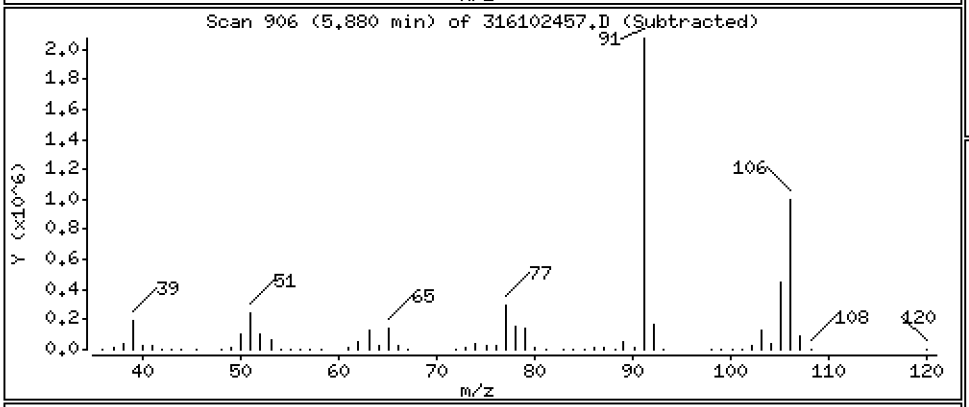
Sample Info: 1237;;1;1;4;;;

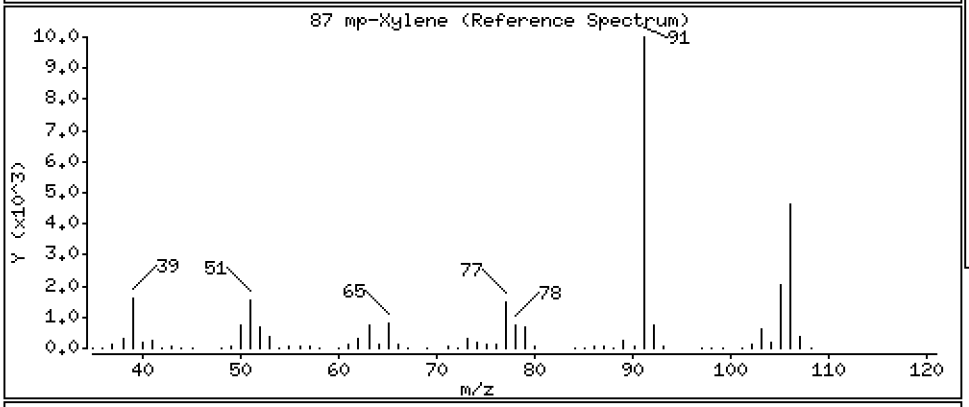
Purge Volume: 5.0 Operator: CJG

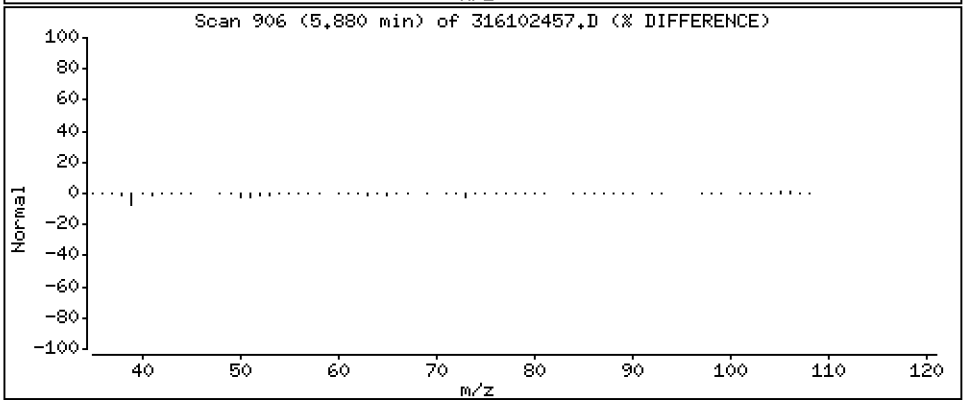
Column phase: DB-VRX Column diameter: 0.25

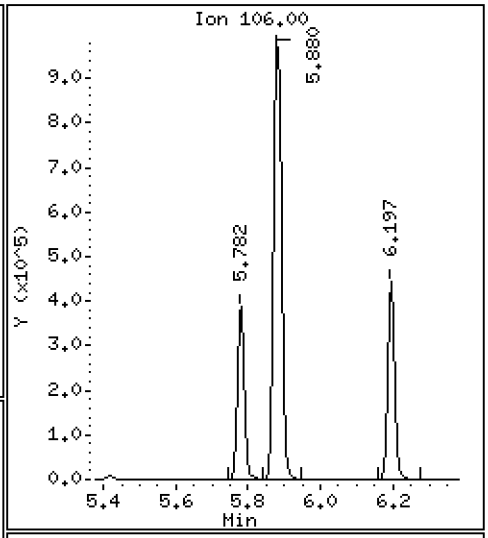
87 mp-Xylene Concentration: 99.5592 ug/L

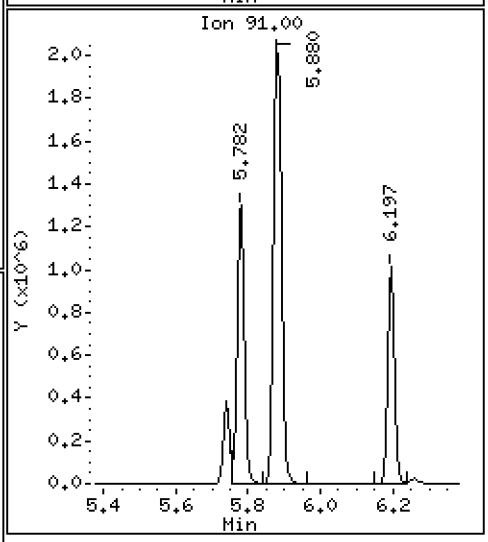












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 91

Date : 25-OCT-2016 00:52

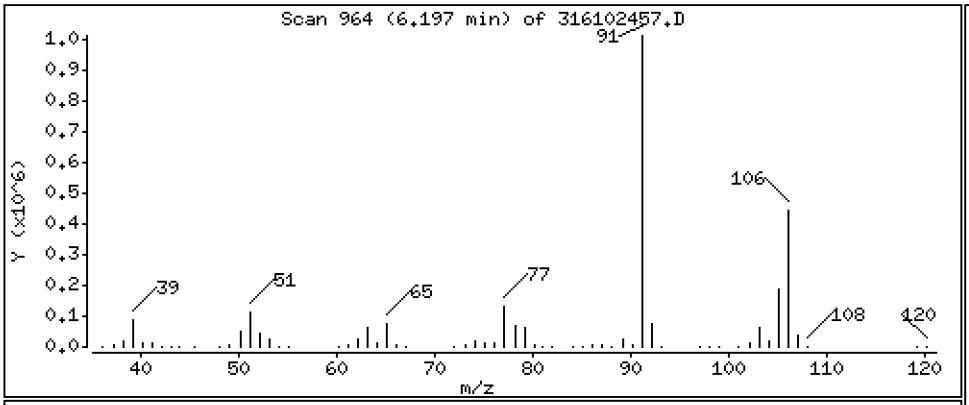
Client ID: Instrument: ms03.i

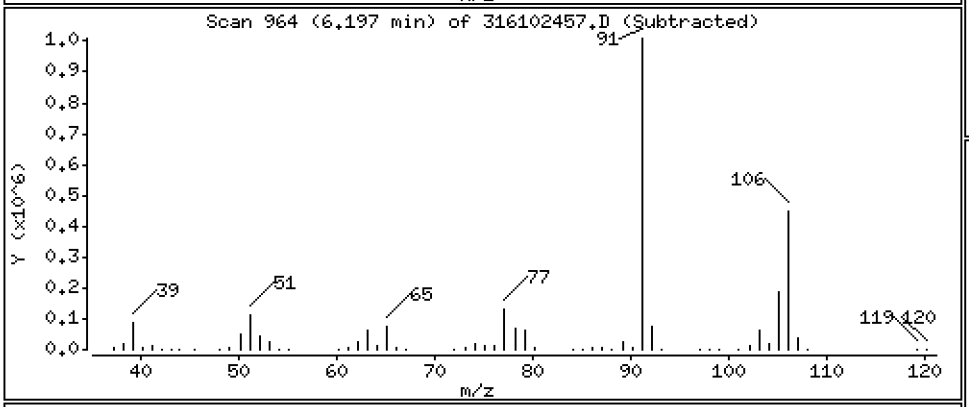
Sample Info: 1237;;1;1;4;;;

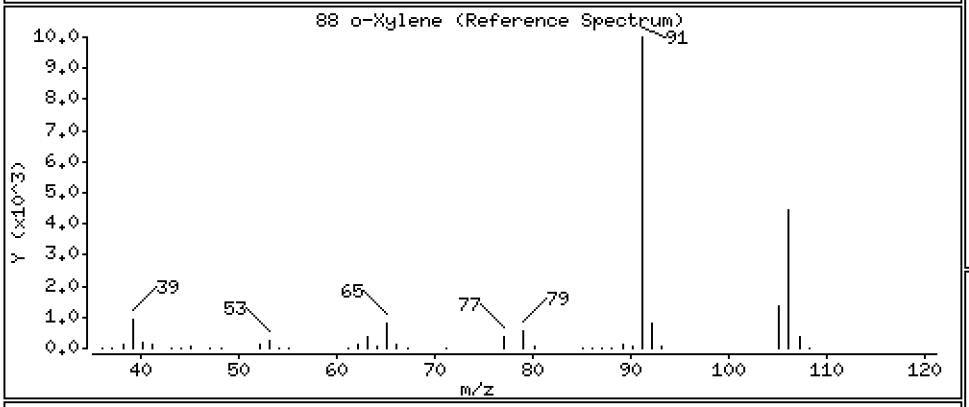
Purge Volume: 5.0 Operator: CJG

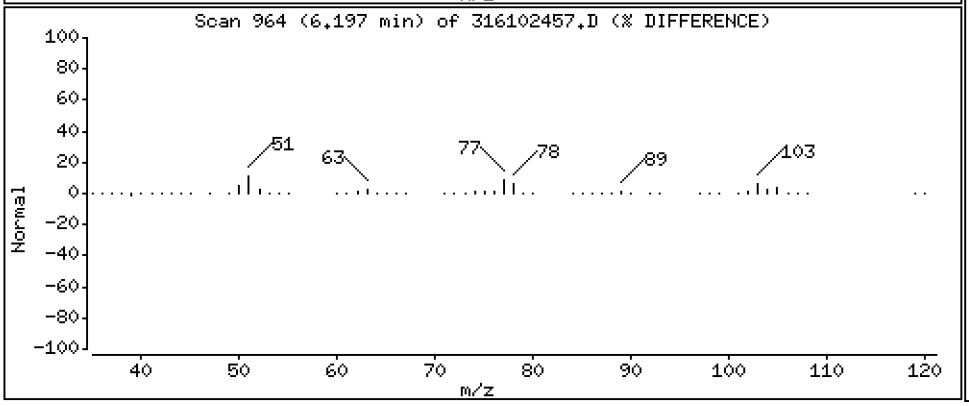
Column phase: DB-VRX Column diameter: 0.25

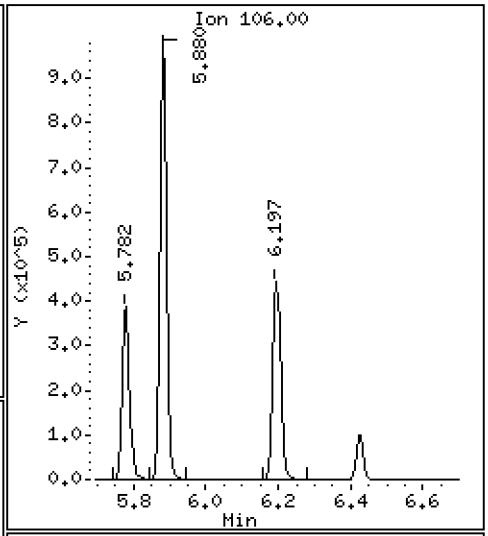
88 o-Xylene Concentration: 49.1045 ug/L

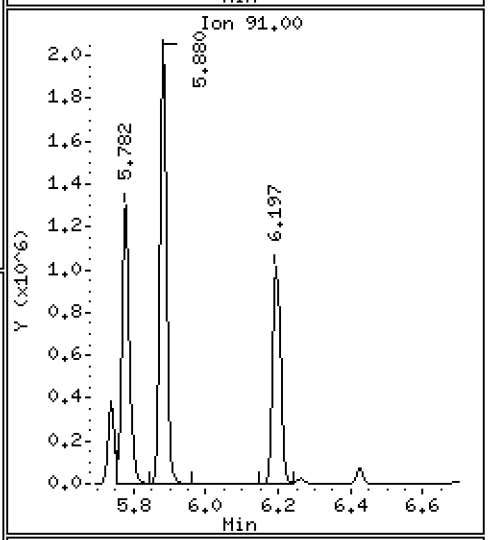


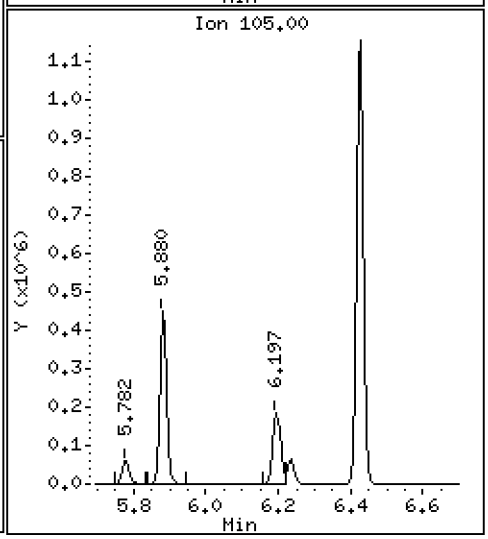












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 92

Date : 25-OCT-2016 00:52

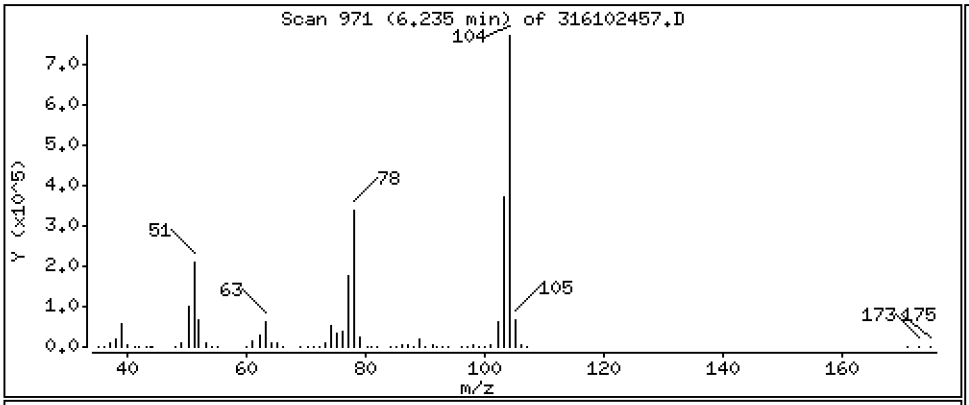
Client ID: Instrument: ms03.i

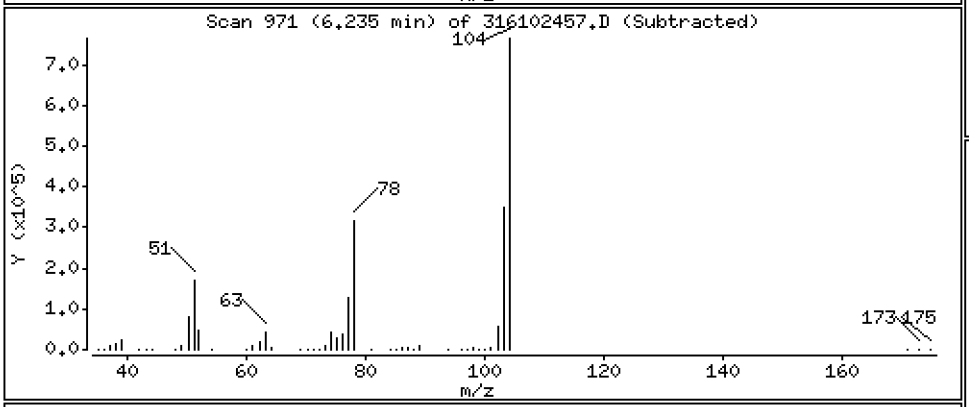
Sample Info: 1237;;1;1;4;;;

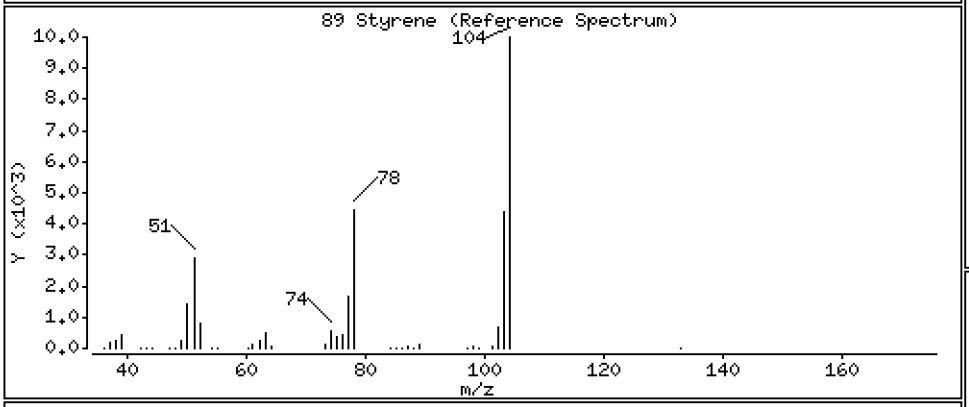
Purge Volume: 5.0 Operator: CJG

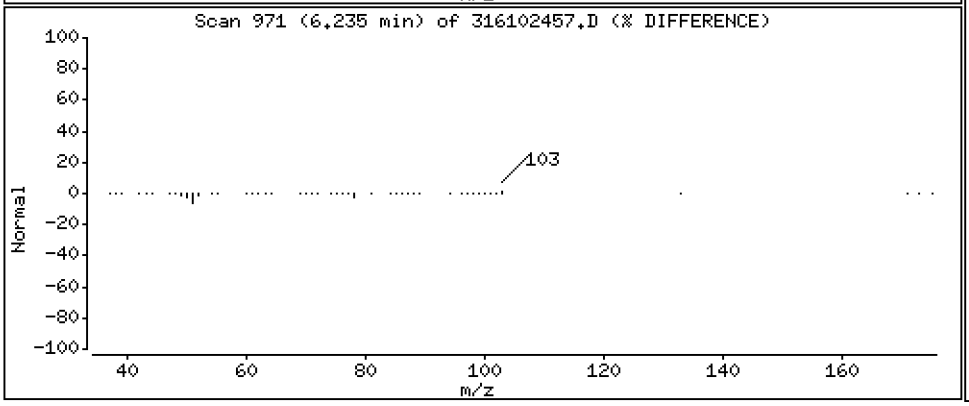
Column phase: DB-VRX Column diameter: 0.25

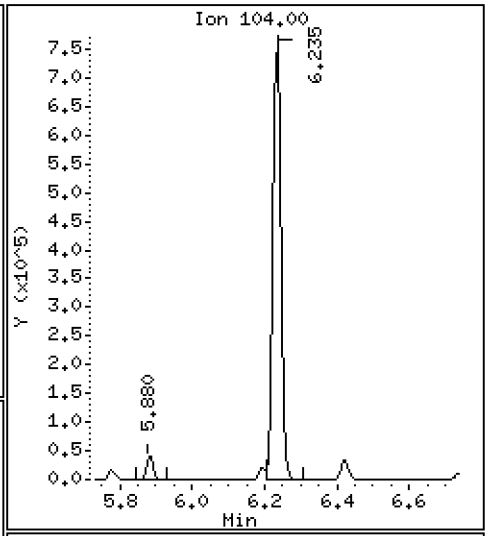
89 Styrene Concentration: 49.0855 ug/L

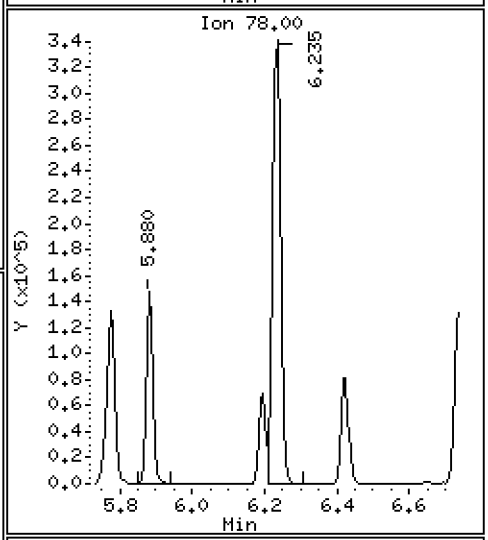


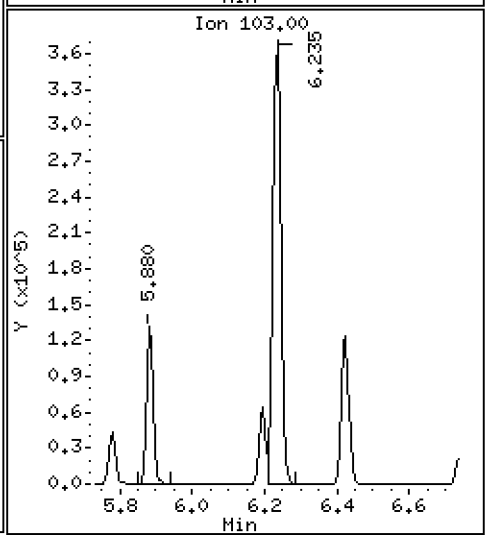












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 93

Date : 25-OCT-2016 00:52

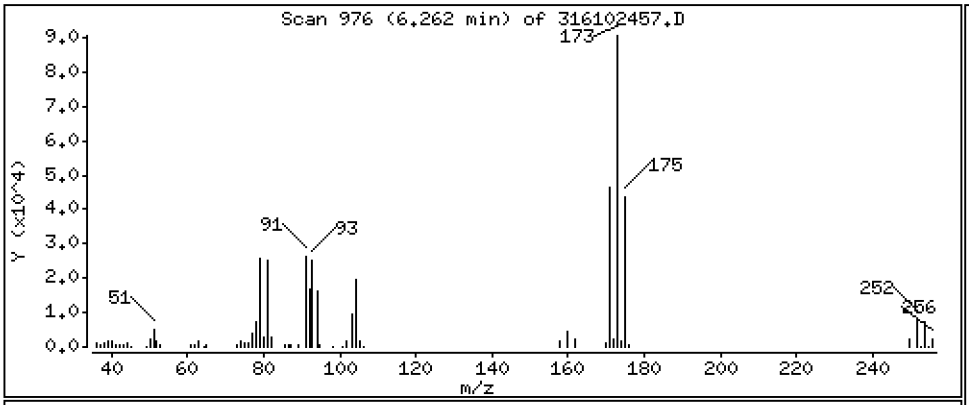
Client ID: Instrument: ms03.i

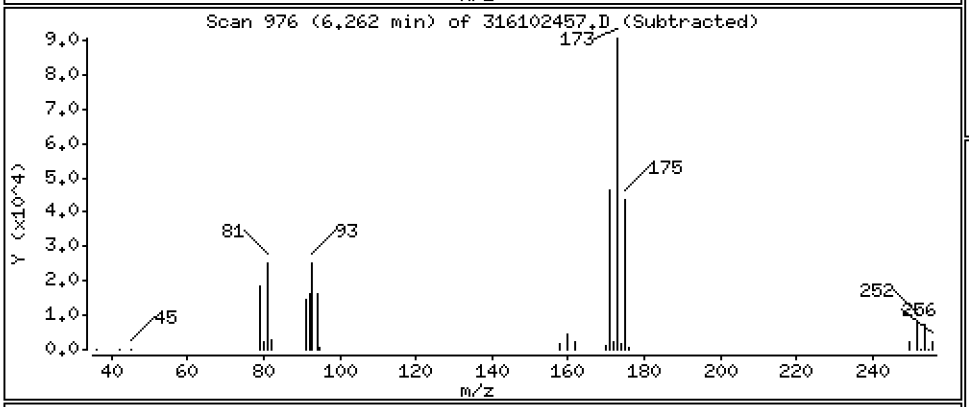
Sample Info: 1237;;1;1;4;;;

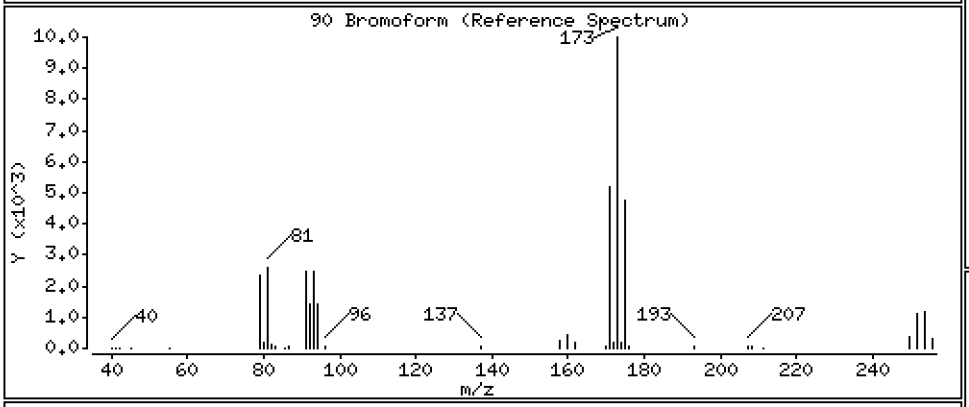
Purge Volume: 5.0 Operator: CJG

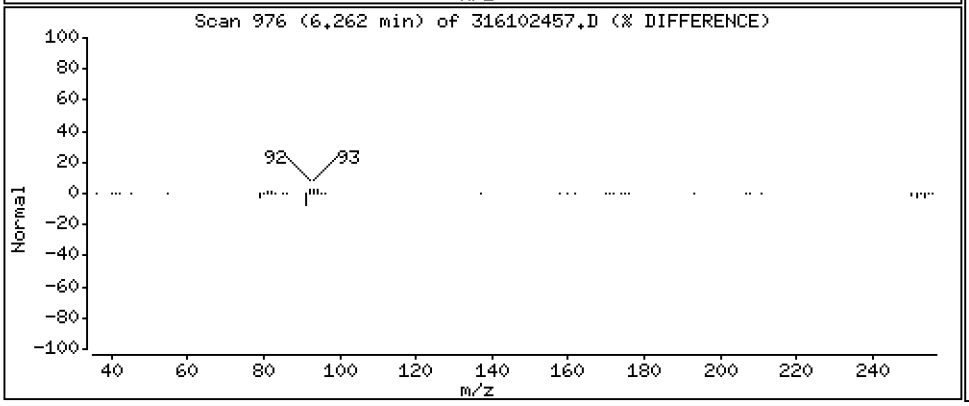
Column phase: DB-VRX Column diameter: 0.25

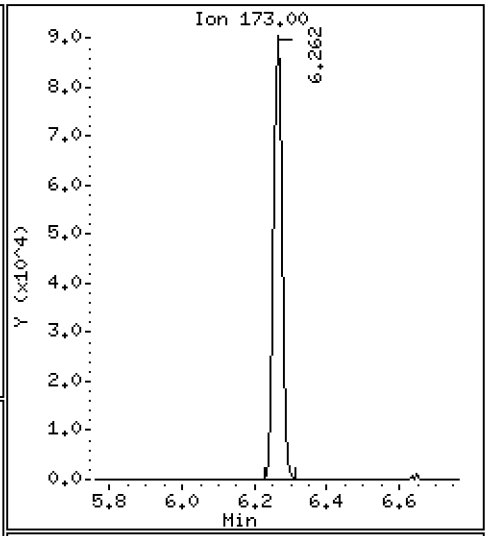
90 Bromoform Concentration: 49.1427 ug/L

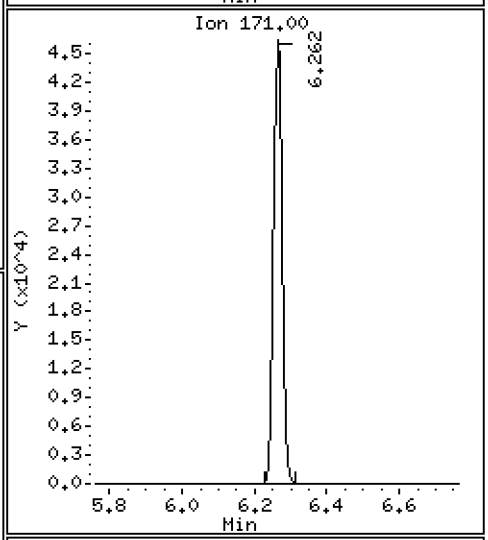


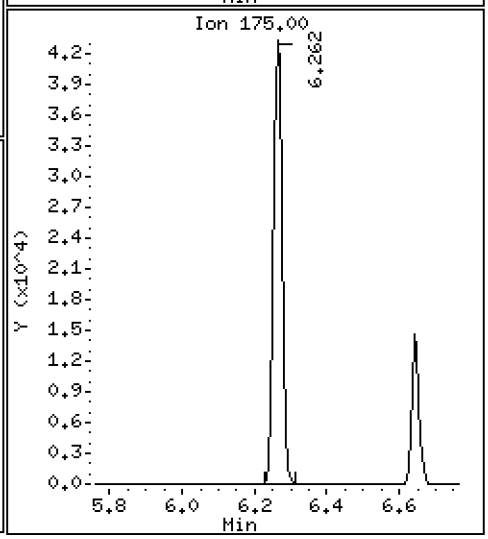












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 94

Date : 25-OCT-2016 00:52

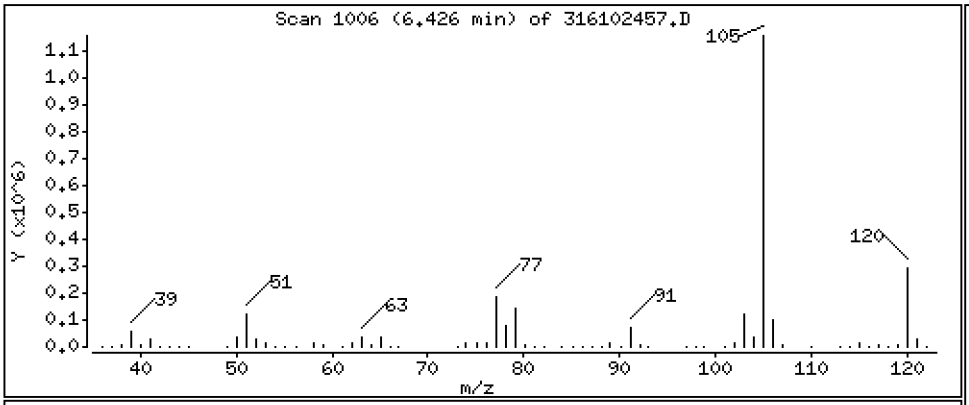
Client ID: Instrument: ms03.i

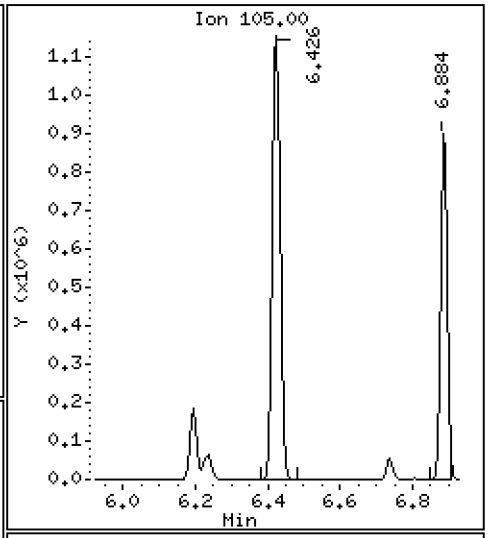
Sample Info: 1237;;1;1;4;;;

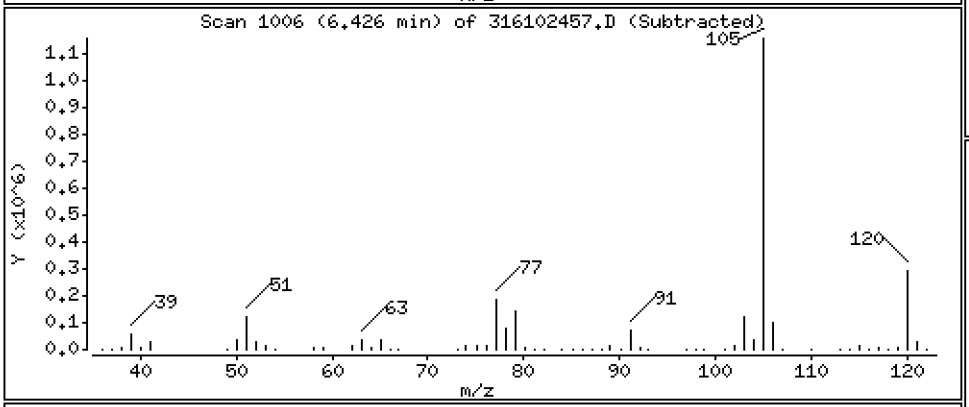
Purge Volume: 5.0 Operator: CJG

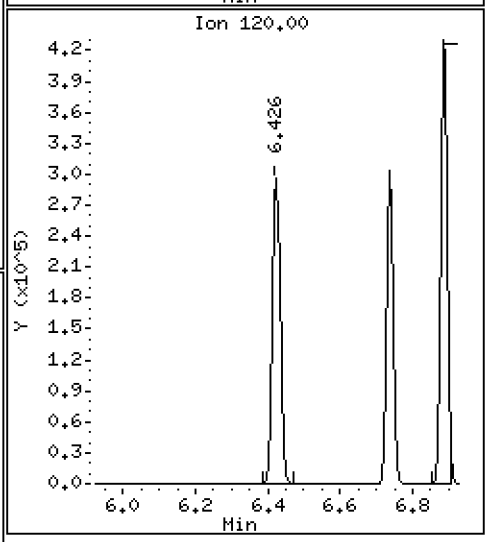
Column phase: DB-VRX Column diameter: 0.25

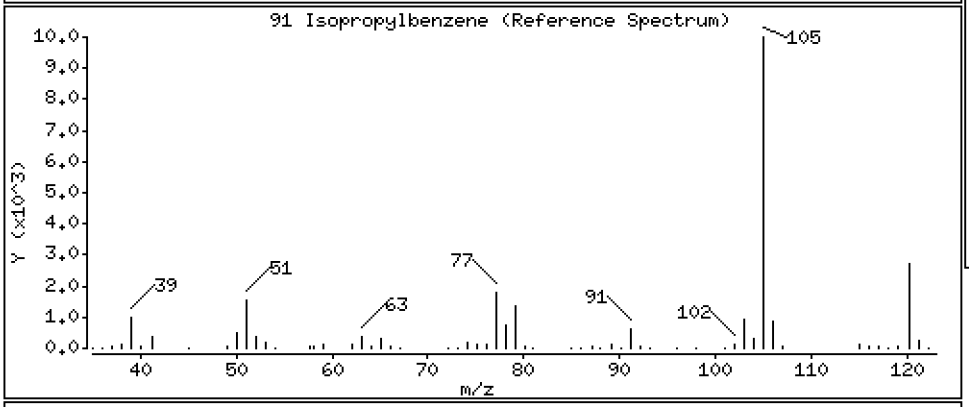
91 Isopropylbenzene Concentration: 48.9168 ug/L

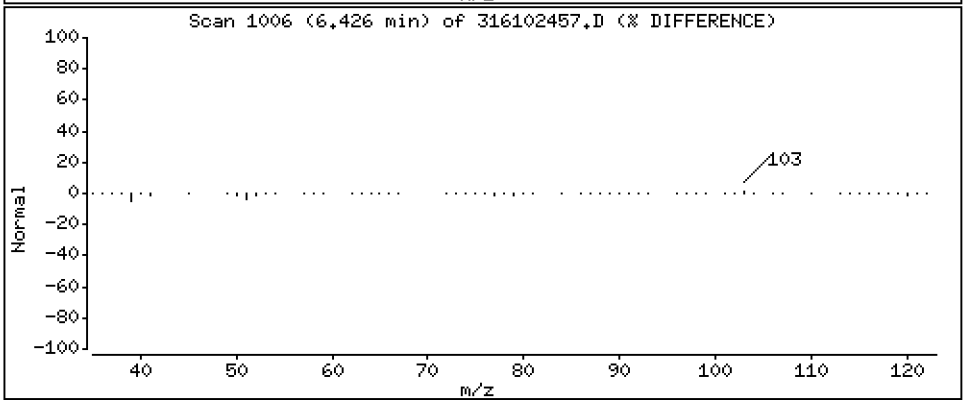












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 95

Date : 25-OCT-2016 00:52

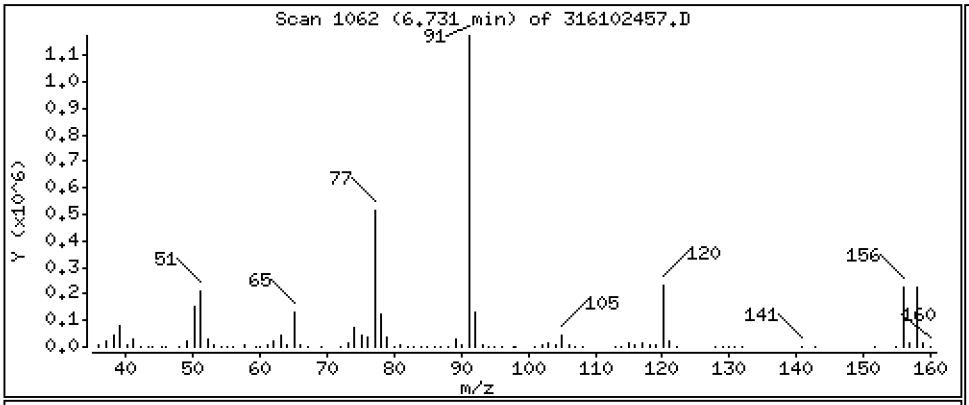
Client ID: Instrument: ms03.i

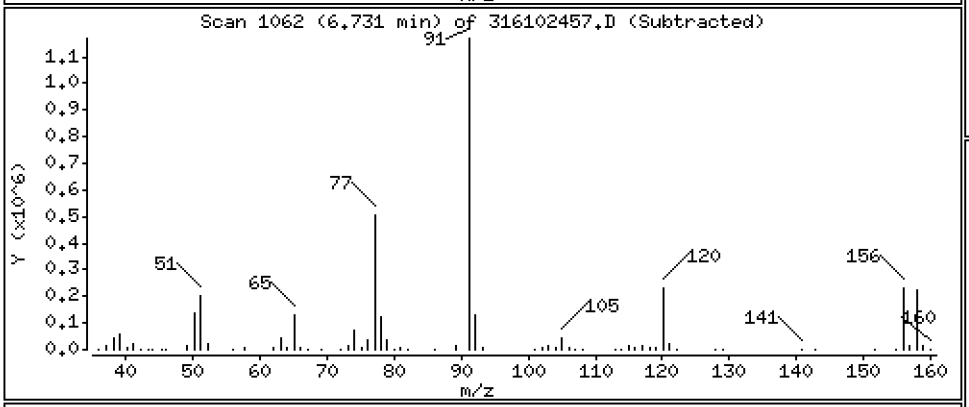
Sample Info: 1237;;1;1;4;;;

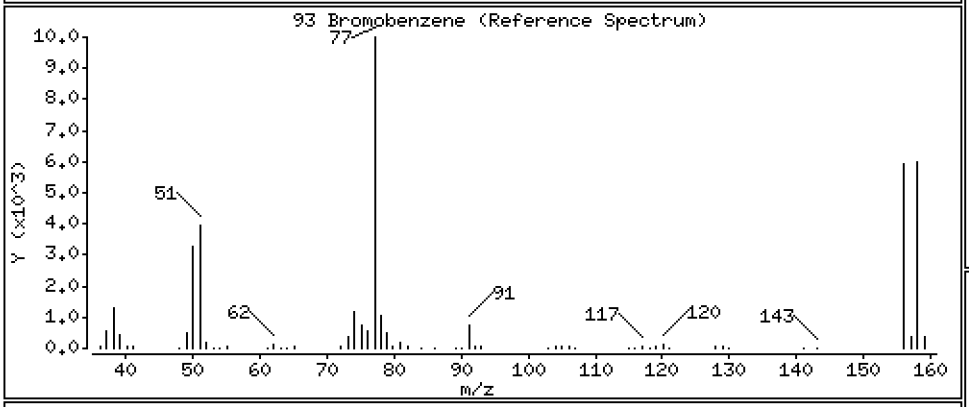
Purge Volume: 5.0 Operator: CJG

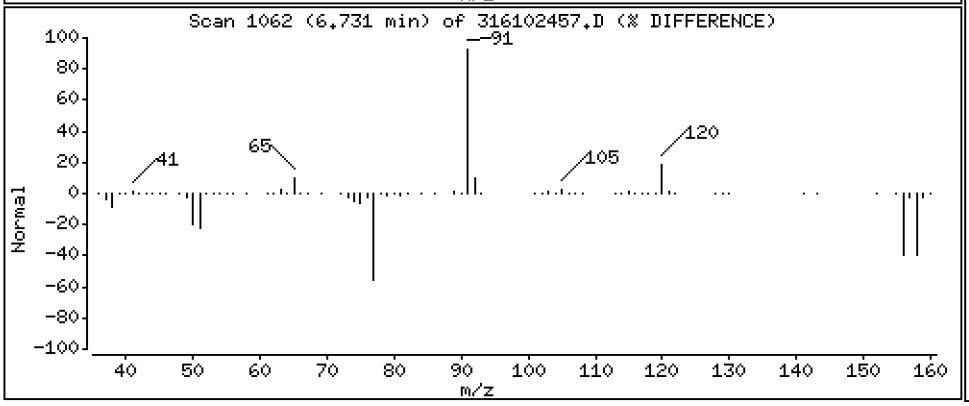
Column phase: DB-VRX Column diameter: 0.25

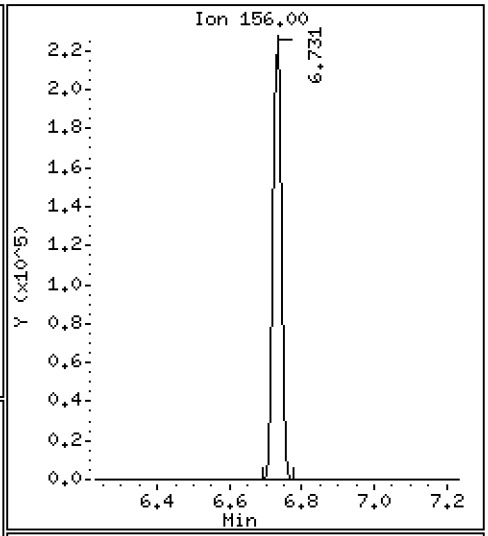
93 Bromobenzene Concentration: 49.2609 ug/L

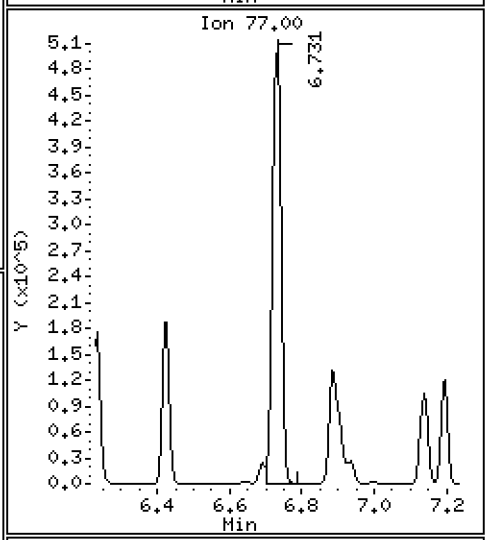


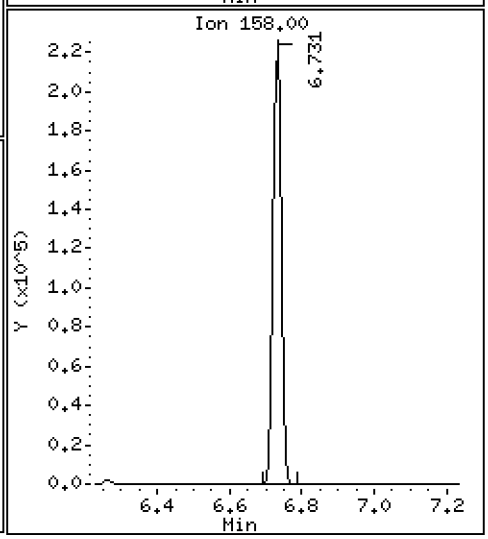












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 96

Date : 25-OCT-2016 00:52

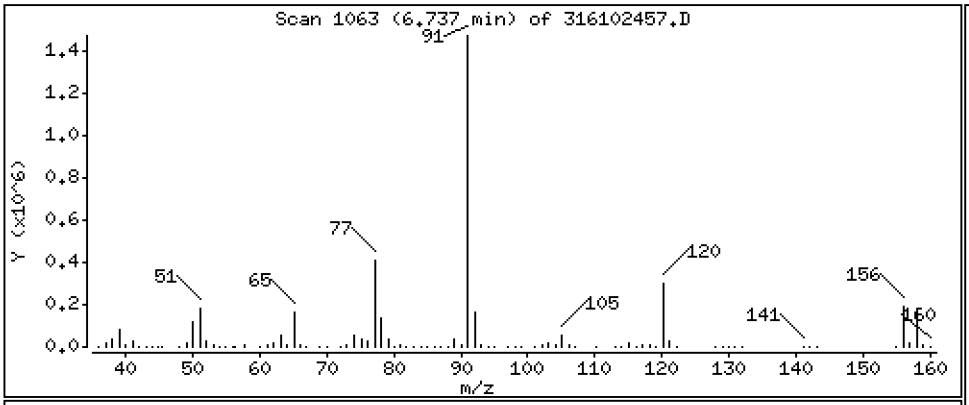
Client ID: Instrument: ms03.i

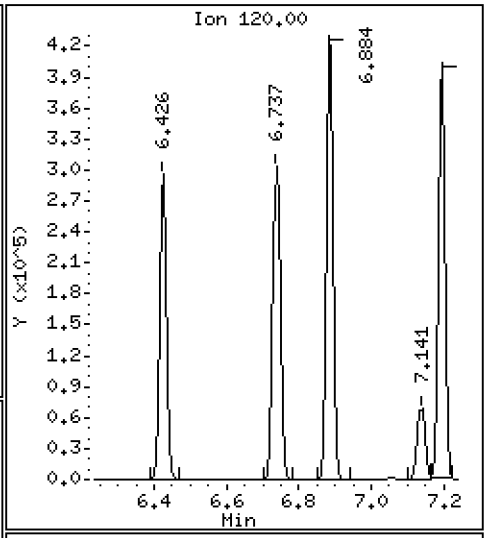
Sample Info: 1237;;1;1;4;;;

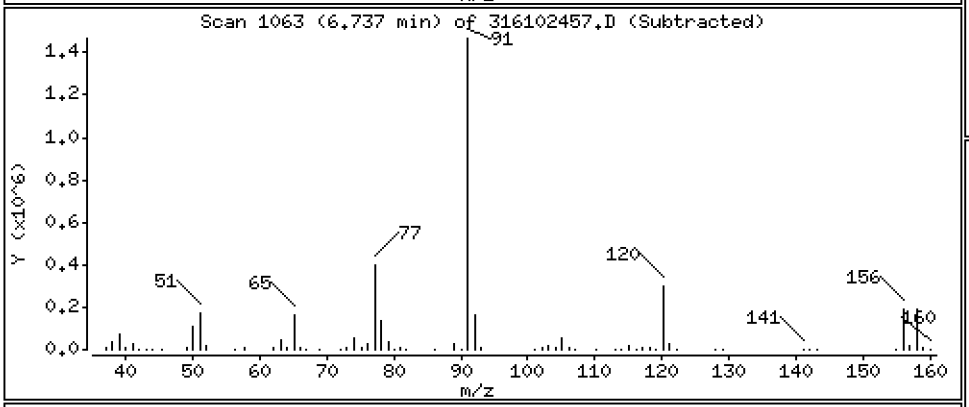
Purge Volume: 5.0 Operator: CJG

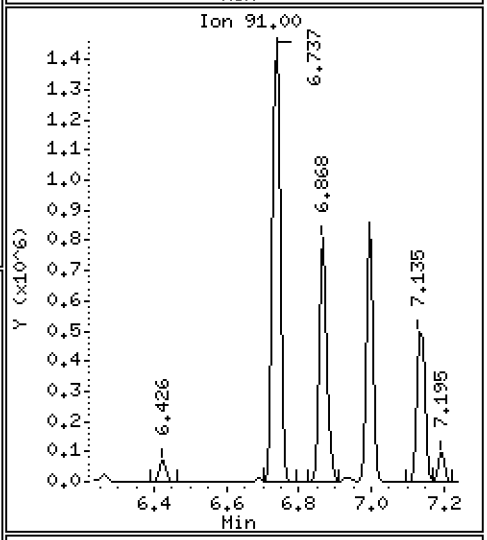
Column phase: DB-VRX Column diameter: 0.25

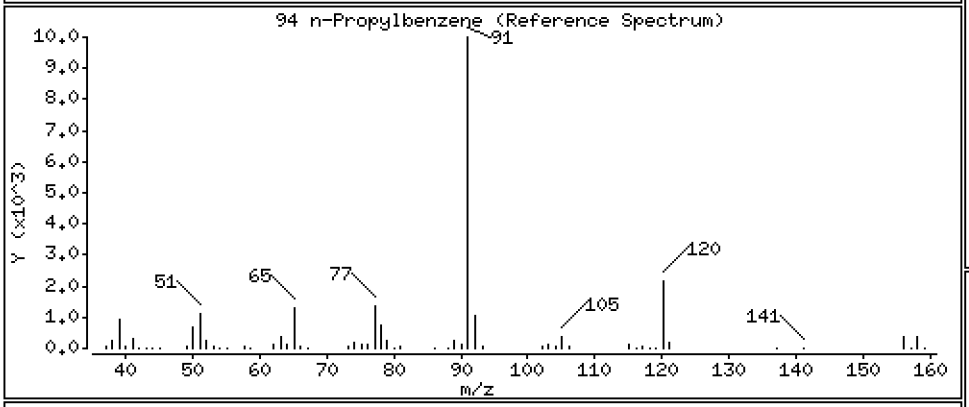
94 n-Propylbenzene Concentration: 48.9344 ug/L

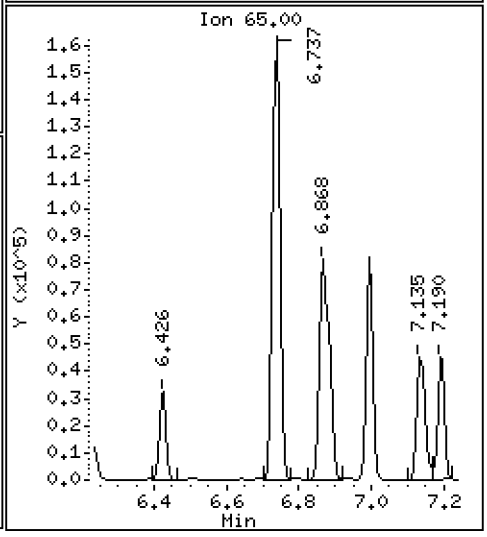


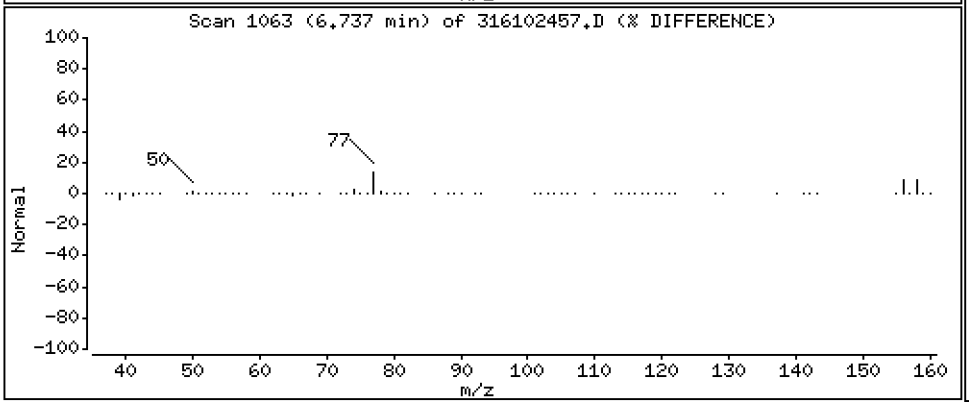












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 97

Date : 25-OCT-2016 00:52

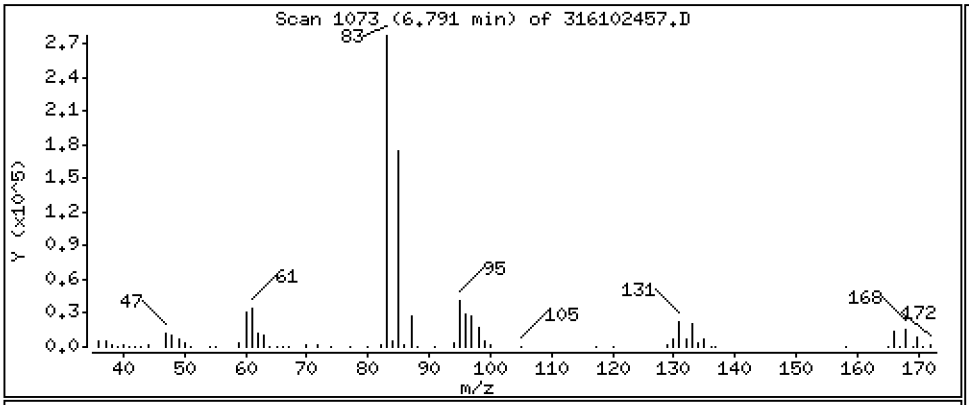
Client ID: Instrument: ms03.i

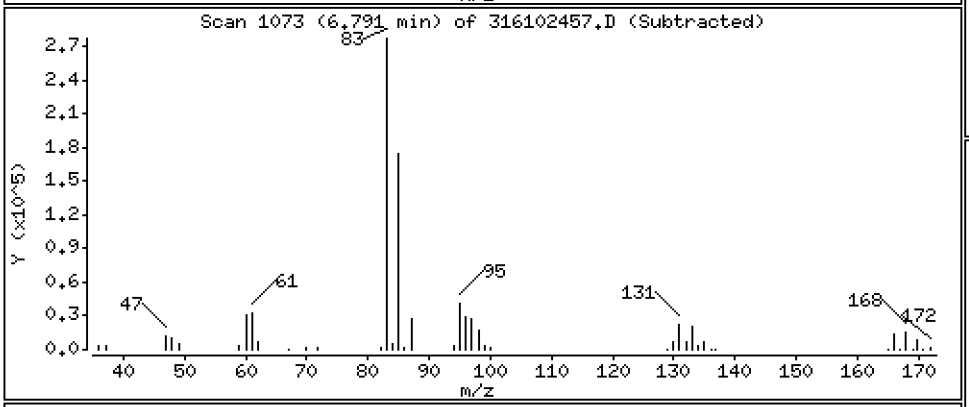
Sample Info: 1237;;1;1;4;;;

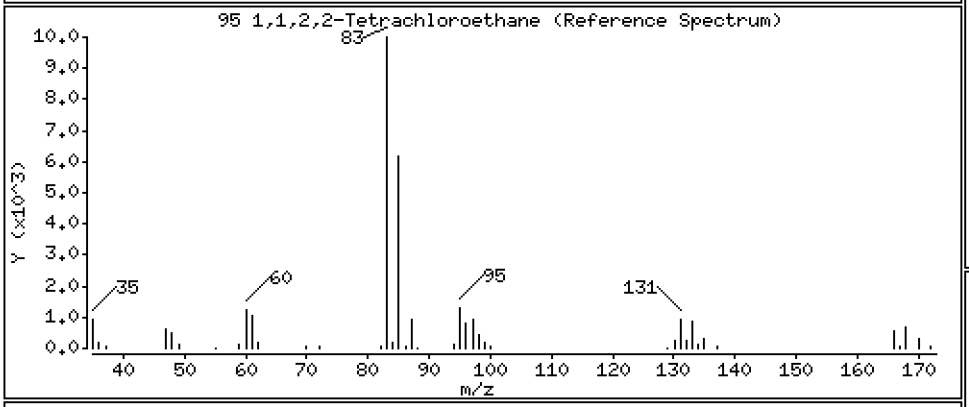
Purge Volume: 5.0 Operator: CJG

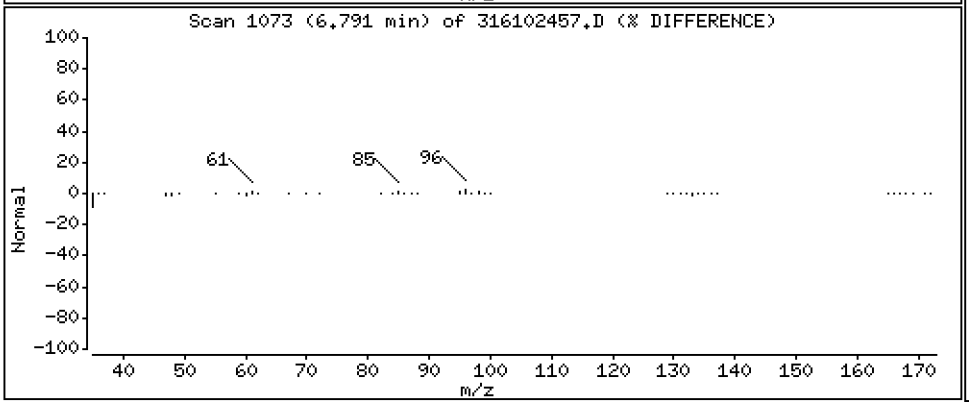
Column phase: DB-VRX Column diameter: 0.25

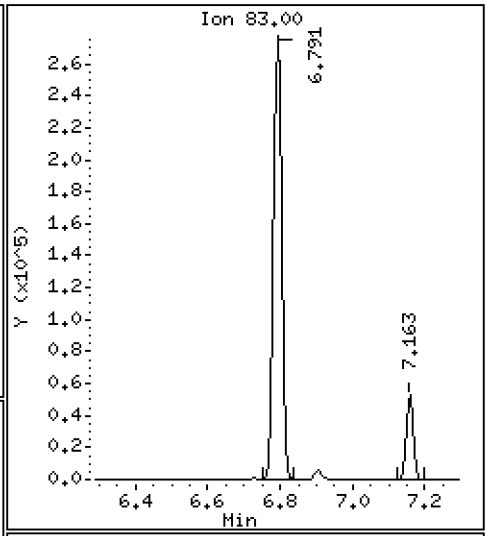
95 1,1,2,2-Tetrachloroethane Concentration: 50.6198 ug/L

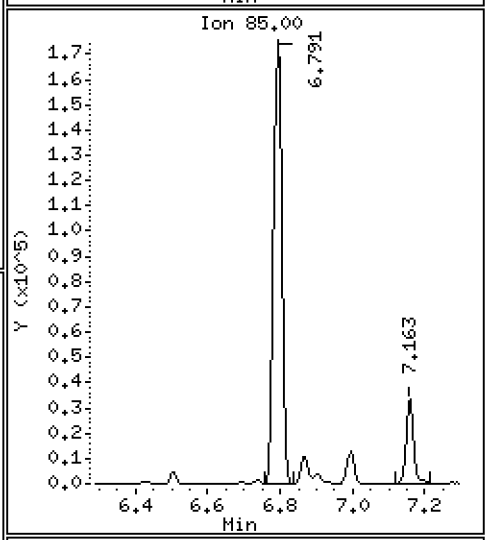


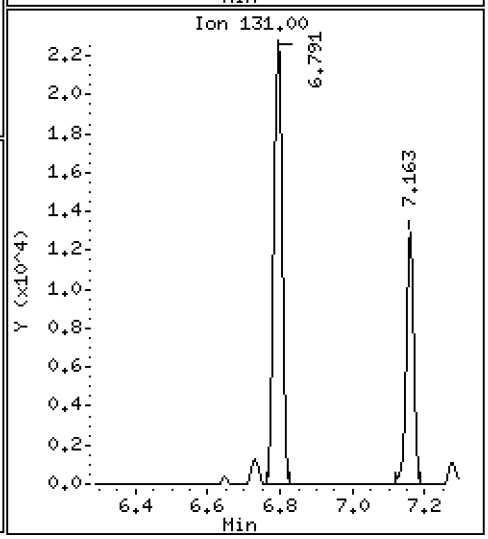












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 98

Date : 25-OCT-2016 00:52

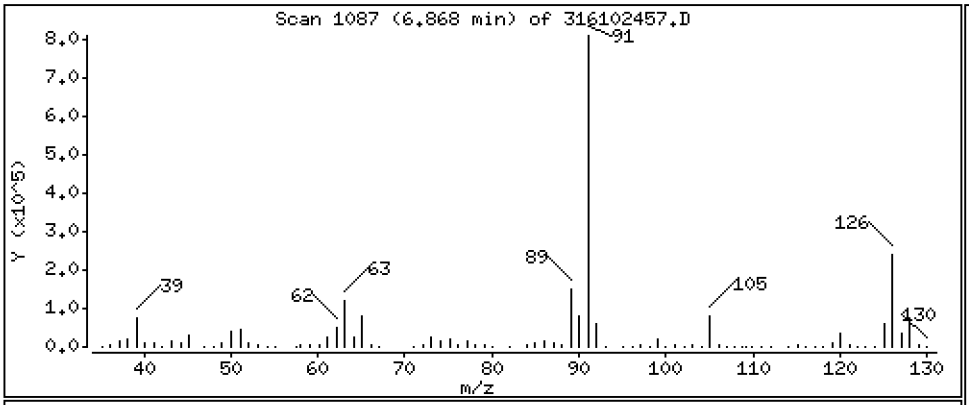
Client ID: Instrument: ms03.i

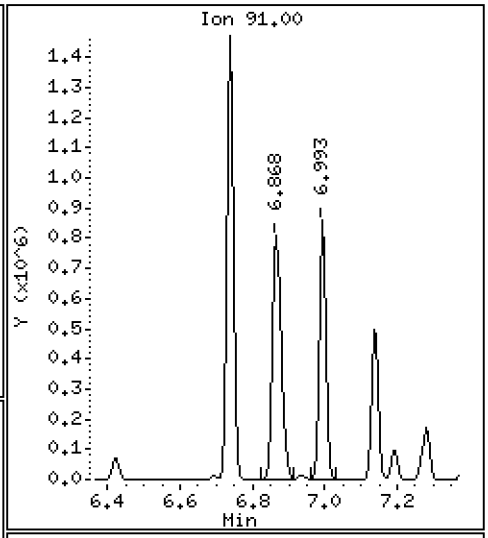
Sample Info: 1237;;1;1;4;;;

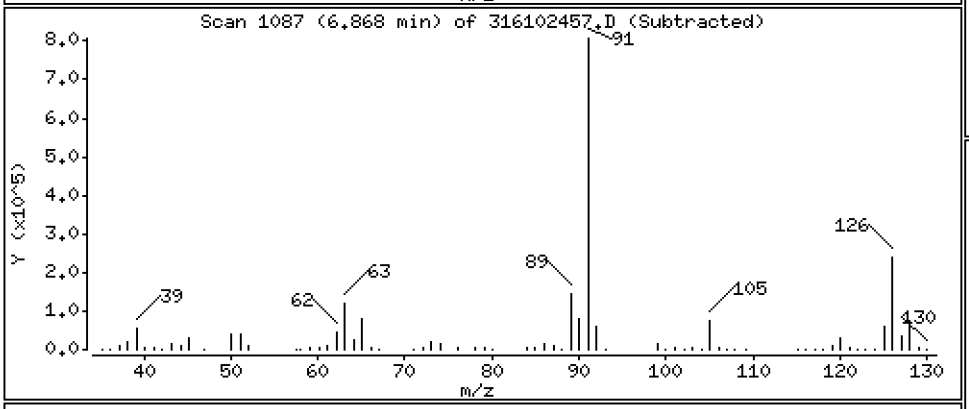
Purge Volume: 5.0 Operator: CJG

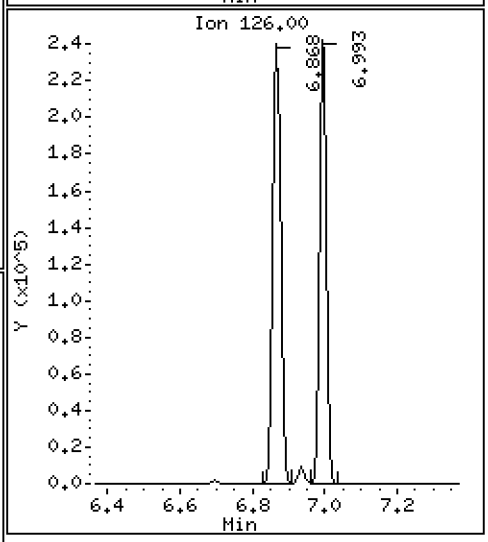
Column phase: DB-VRX Column diameter: 0.25

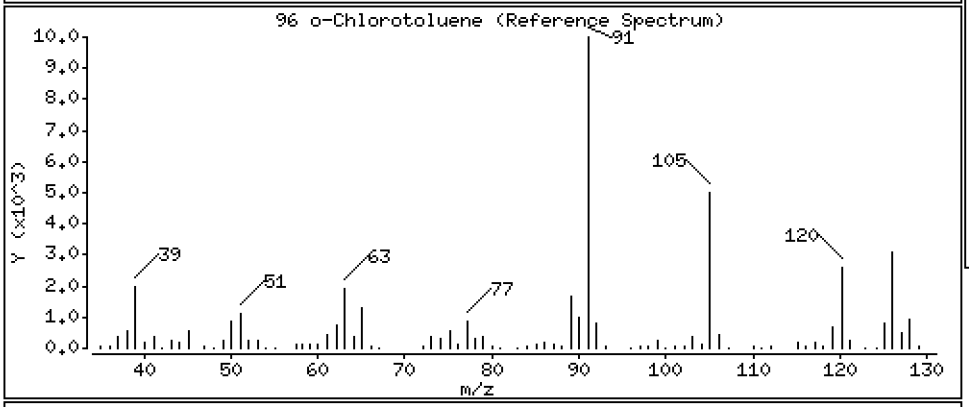
96 o-Chlorotoluene Concentration: 48.9687 ug/L

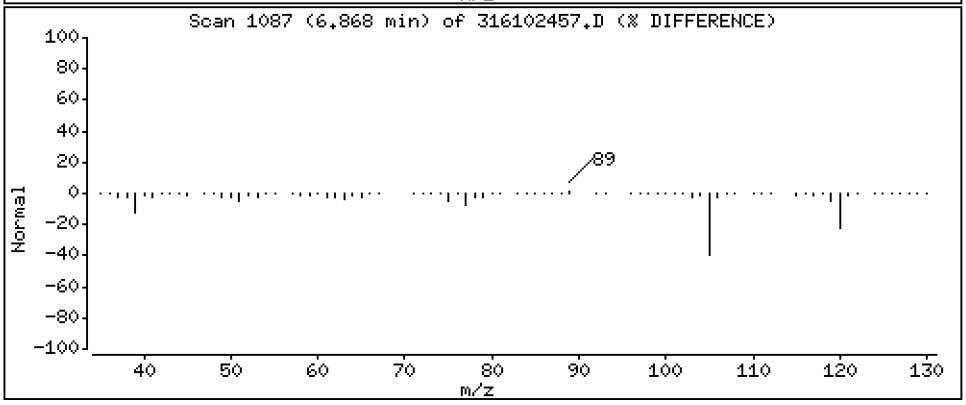












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 99

Date : 25-OCT-2016 00:52

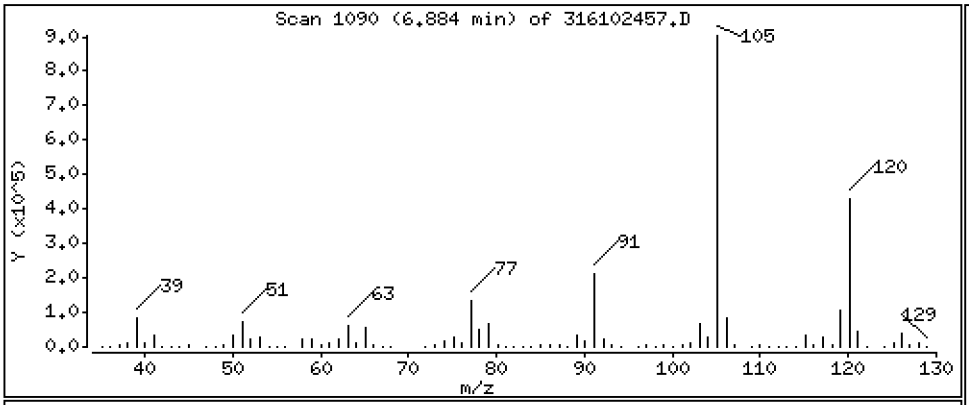
Client ID: Instrument: ms03.i

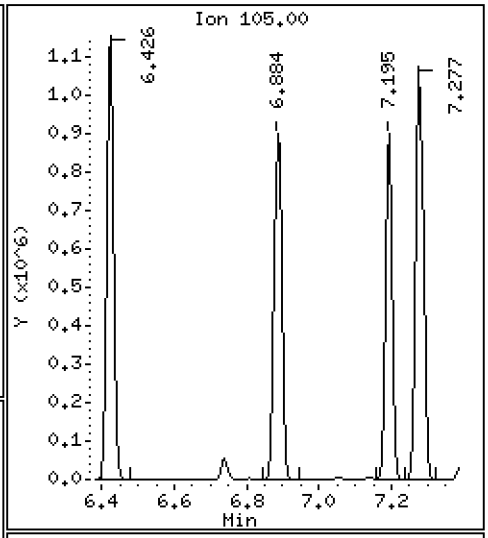
Sample Info: 1237;;1;1;4;;;

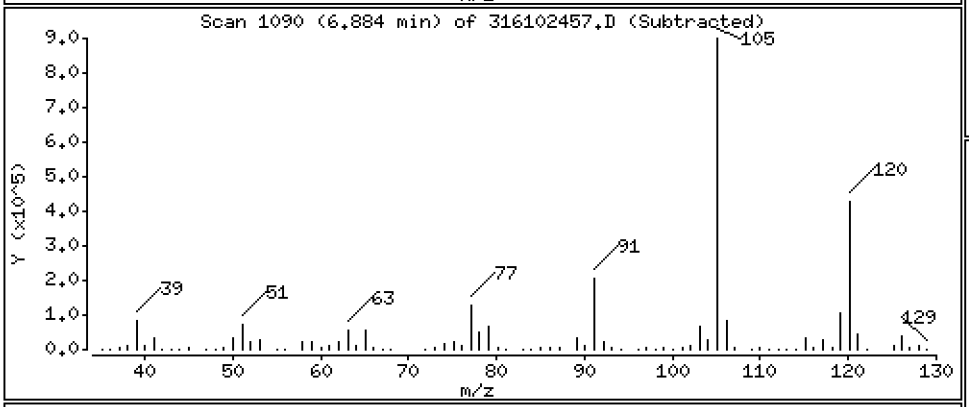
Purge Volume: 5.0 Operator: CJG

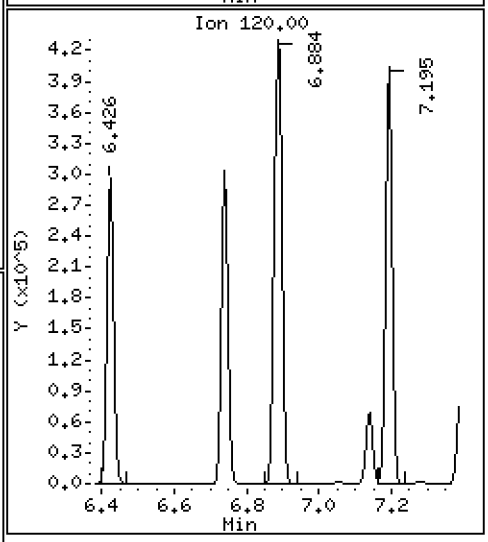
Column phase: DB-VRX Column diameter: 0.25

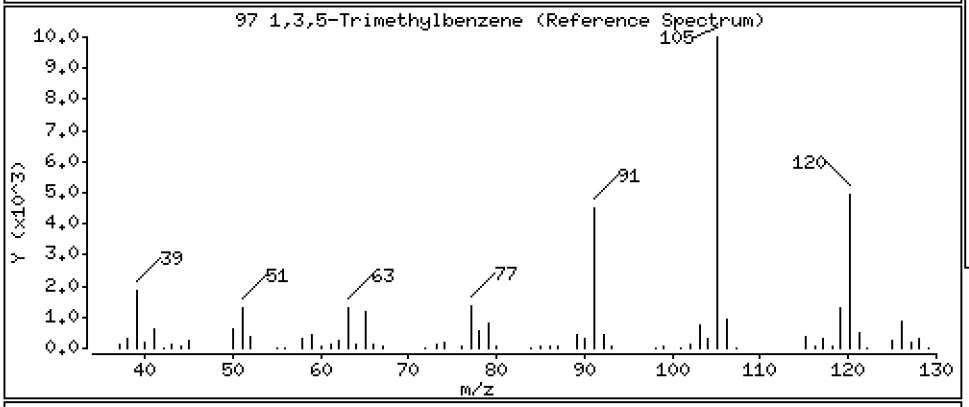
97 1,3,5-Trimethylbenzene Concentration: 48.8489 ug/L

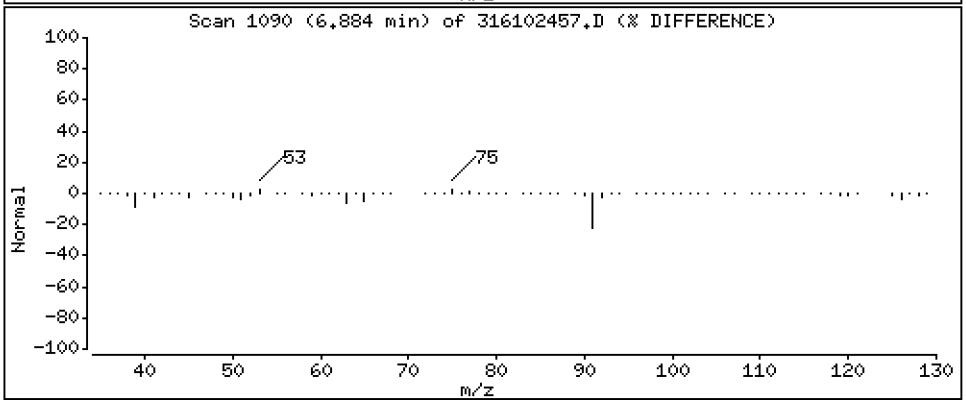












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 100

Date : 25-OCT-2016 00:52

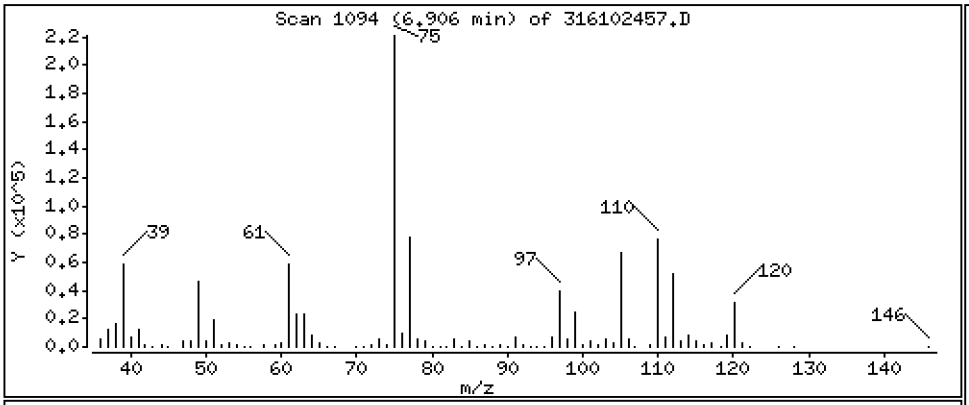
Client ID: Instrument: ms03.i

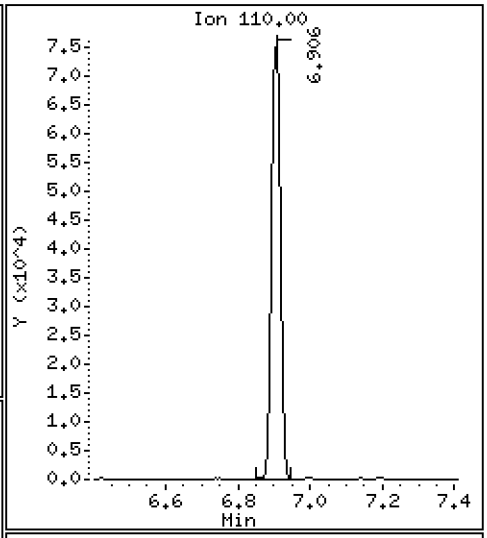
Sample Info: 1237;;1;1;4;;;

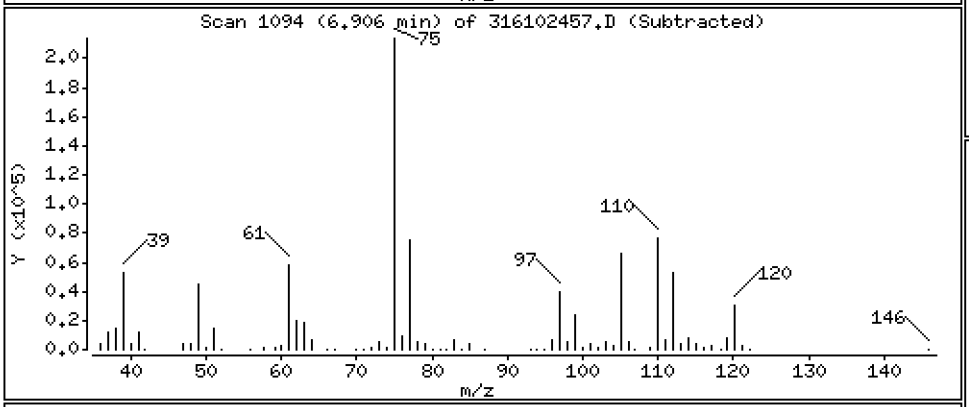
Purge Volume: 5.0 Operator: CJG

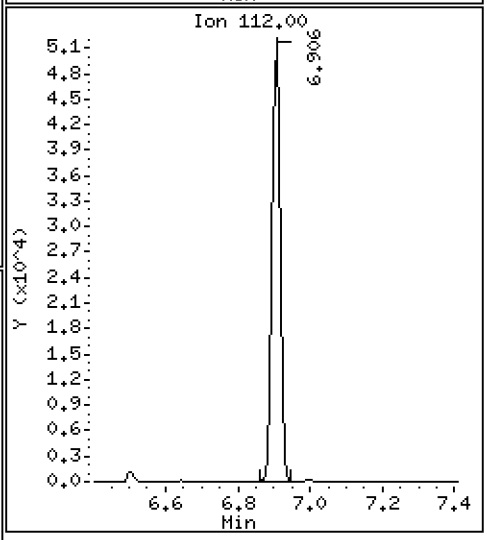
Column phase: DB-VRX Column diameter: 0.25

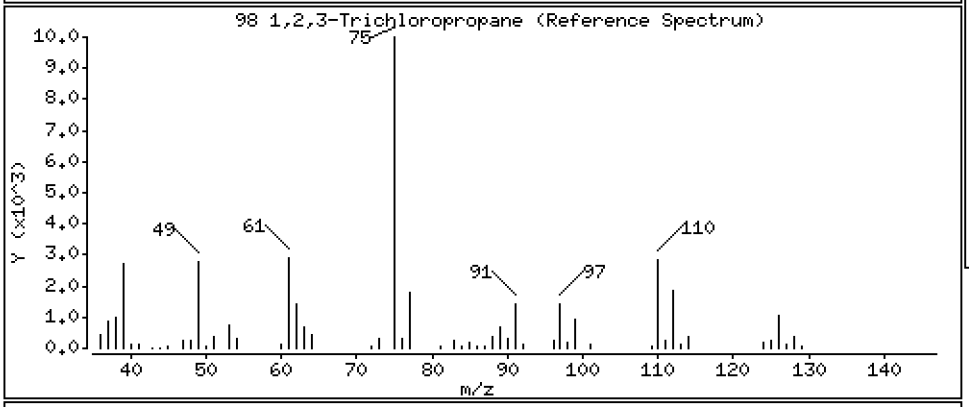
98 1,2,3-Trichloropropane Concentration: 50.6977 ug/L

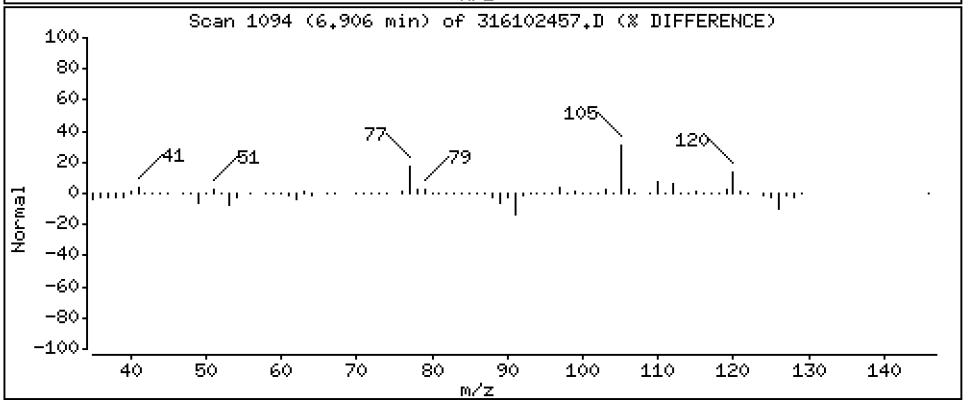












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 101

Date : 25-OCT-2016 00:52

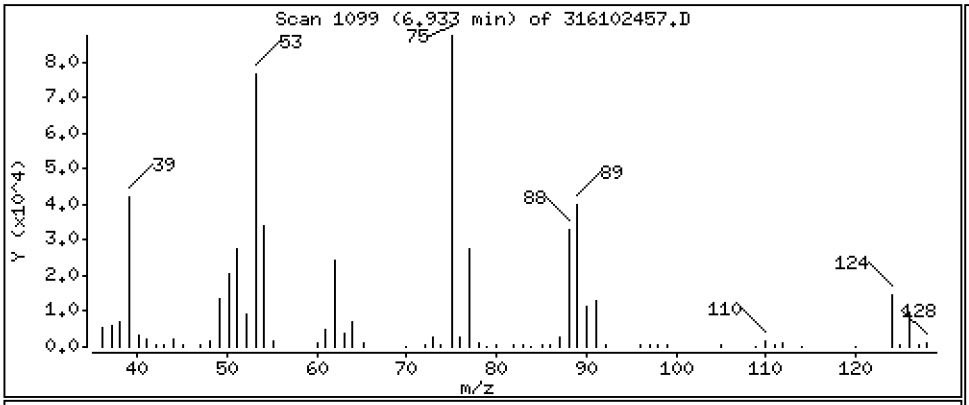
Client ID: Instrument: ms03.i

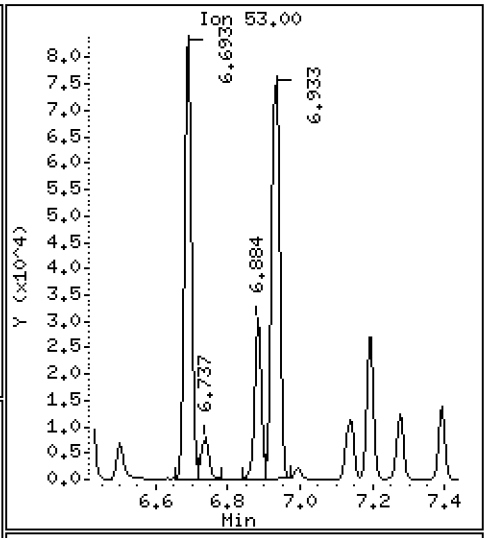
Sample Info: 1237;;1;1;4;;;

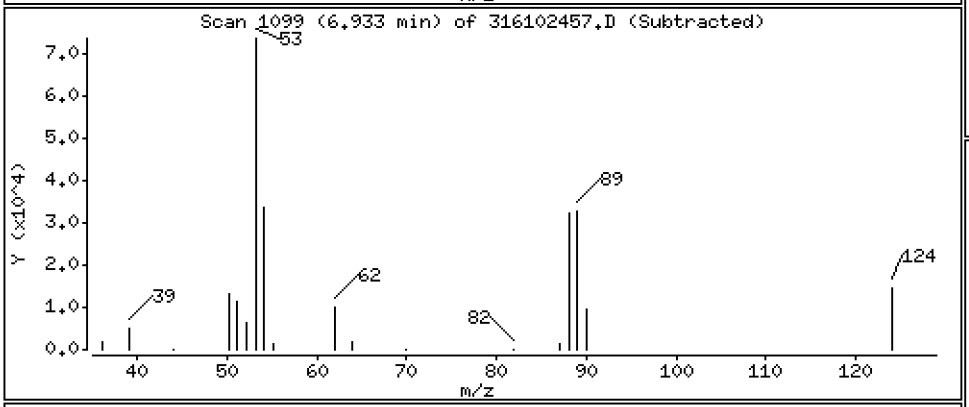
Purge Volume: 5.0 Operator: CJG

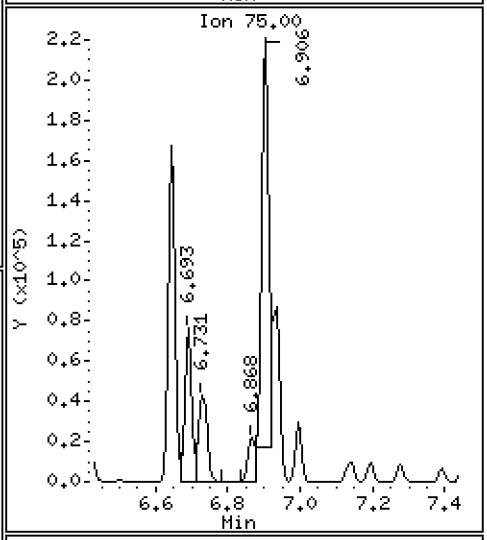
Column phase: DB-VRX Column diameter: 0.25

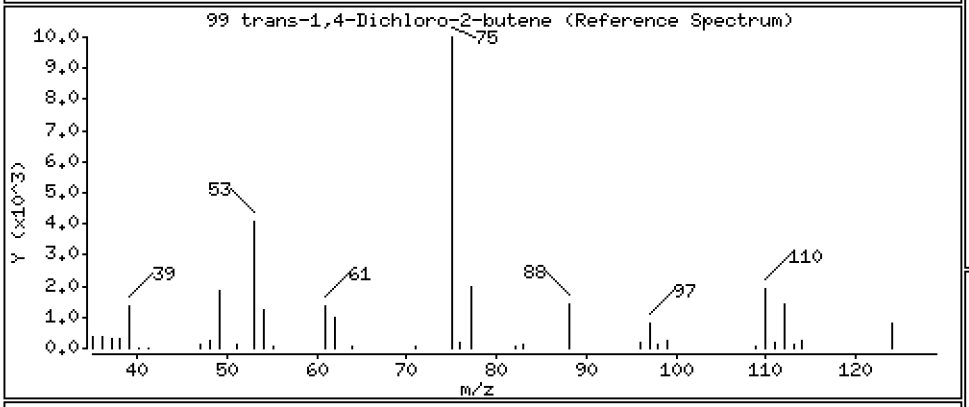
99 trans-1,4-Dichloro-2-butene Concentration: 49.3615 ug/L

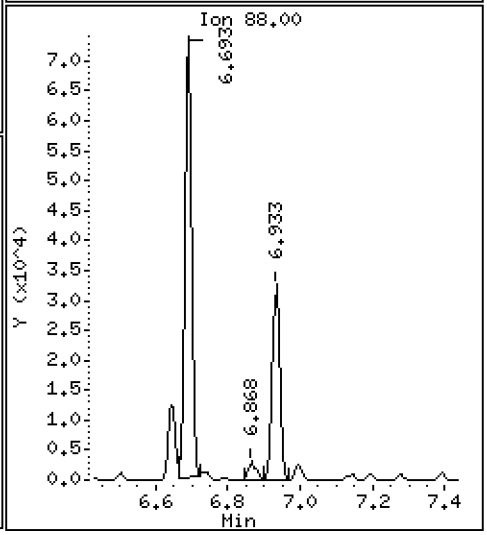


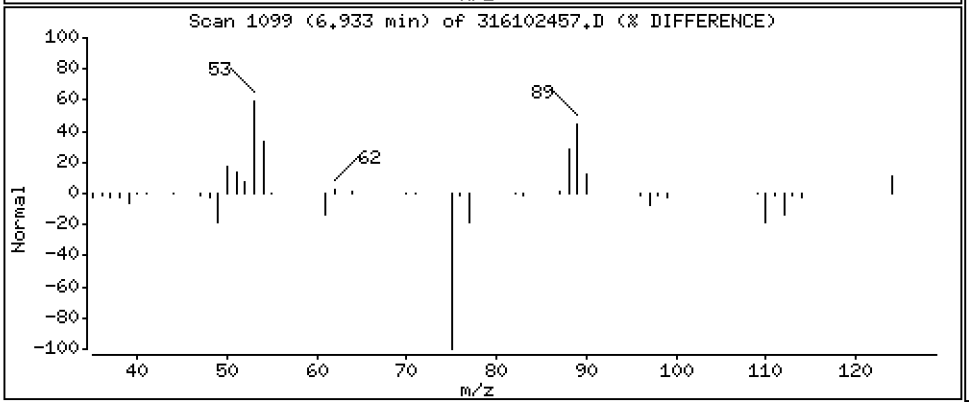












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 102

Date : 25-OCT-2016 00:52

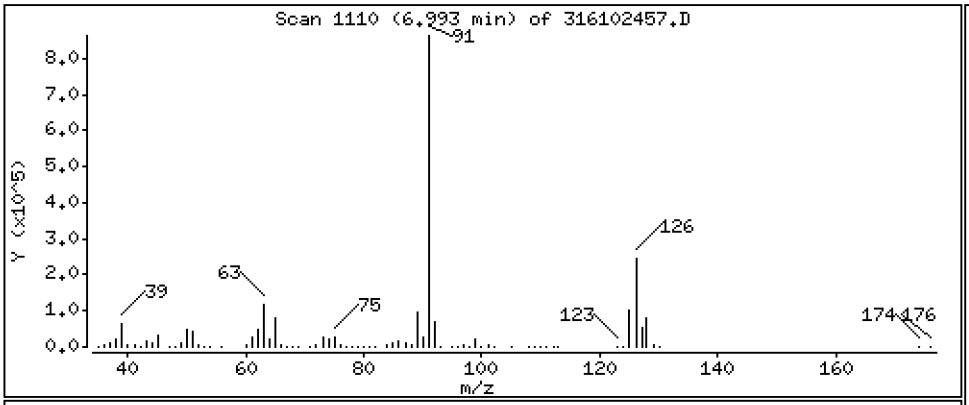
Client ID: Instrument: ms03.i

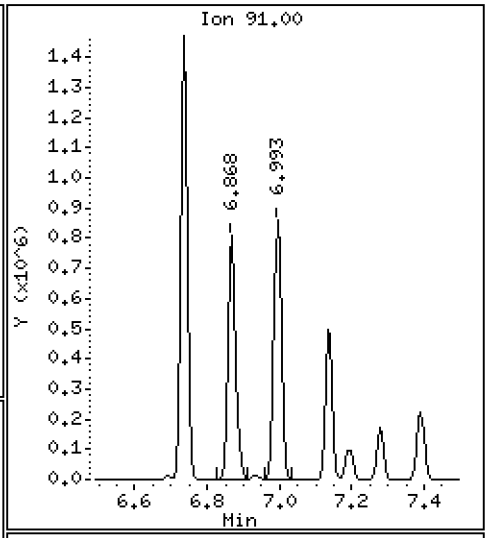
Sample Info: 1237;;1;1;4;;;

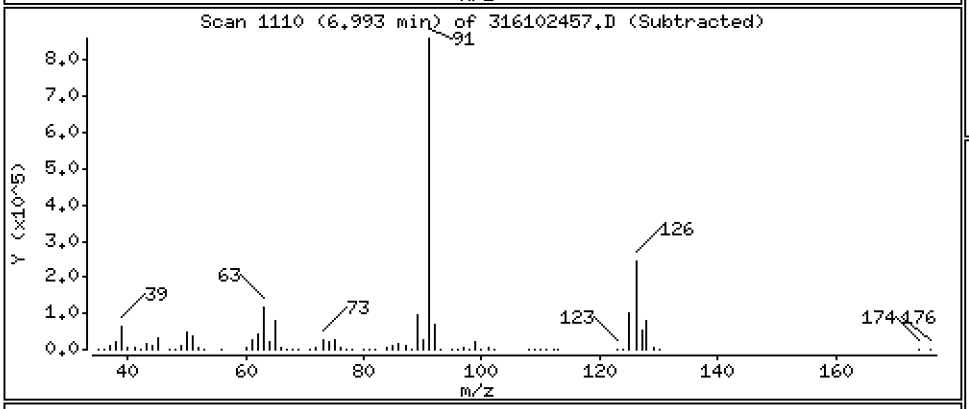
Purge Volume: 5.0 Operator: CJG

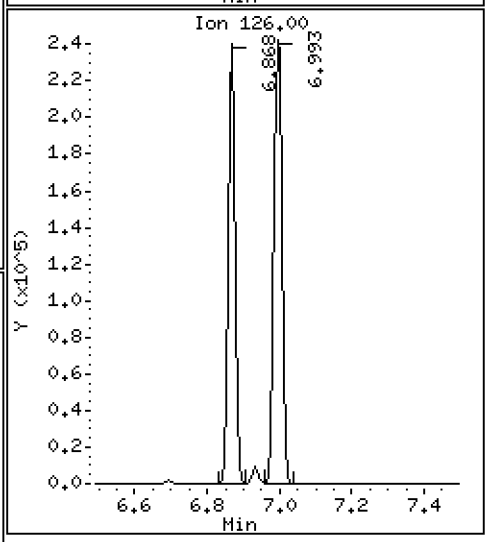
Column phase: DB-VRX Column diameter: 0.25

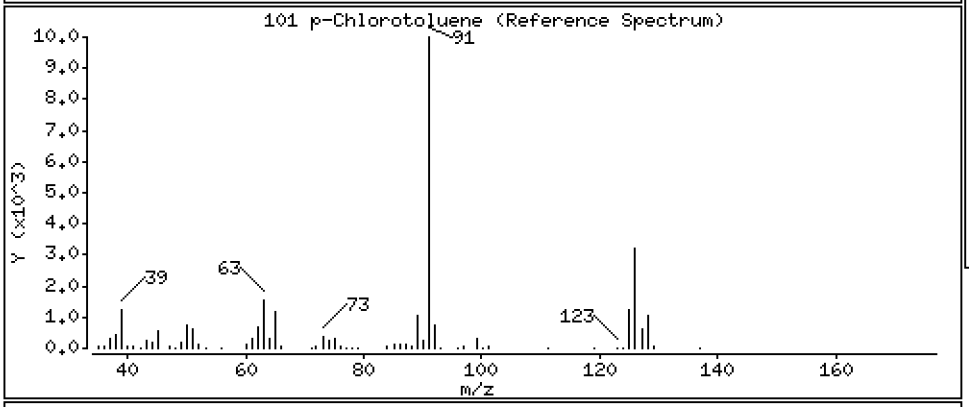
101 p-Chlorotoluene Concentration: 48.7605 ug/L

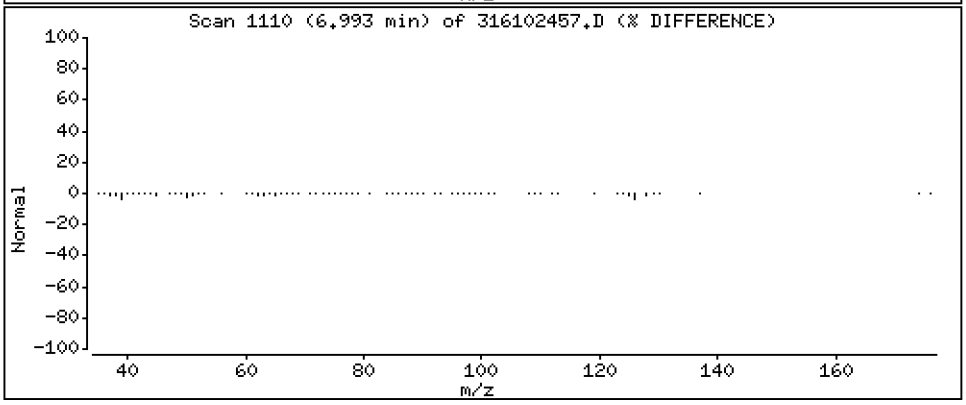












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 103

Date : 25-OCT-2016 00:52

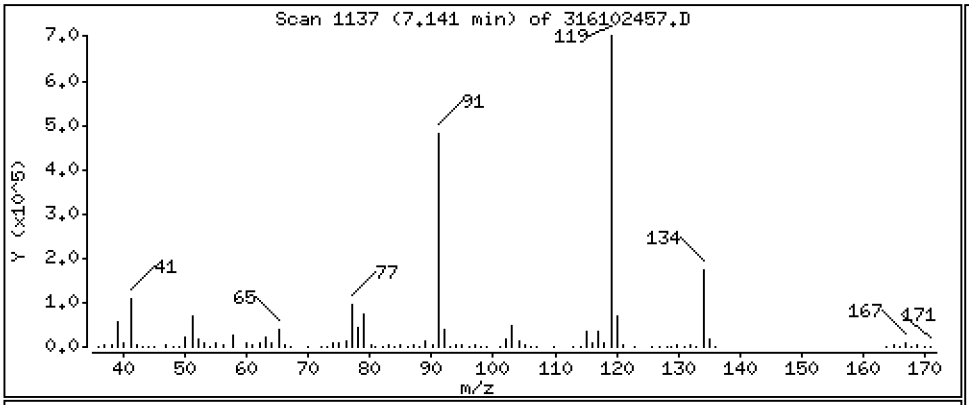
Client ID: Instrument: ms03.i

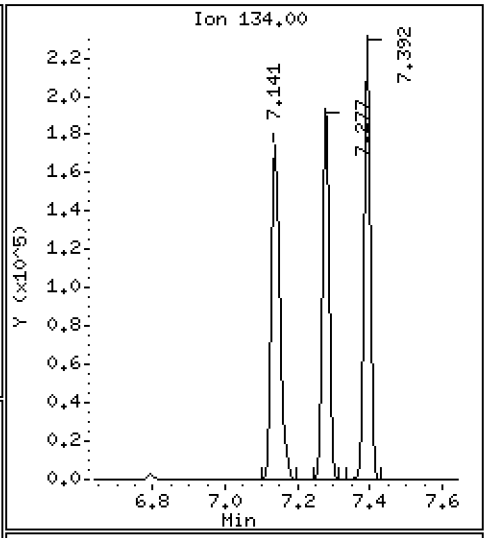
Sample Info: 1237;;1;1;4;;;

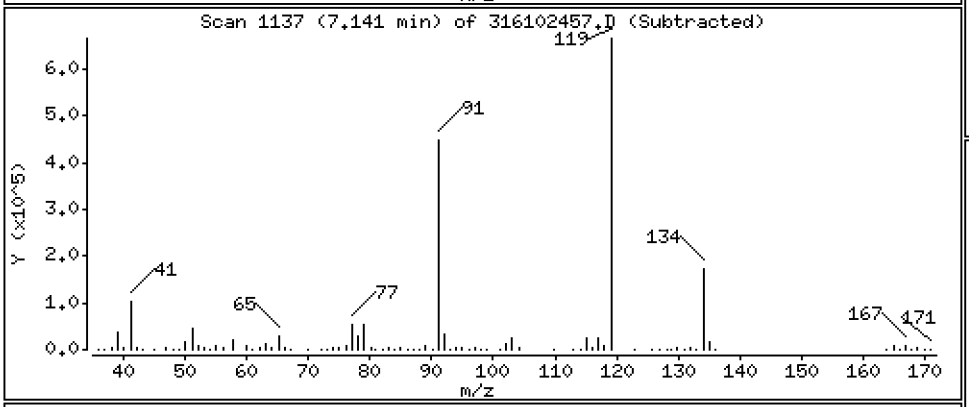
Purge Volume: 5.0 Operator: CJG

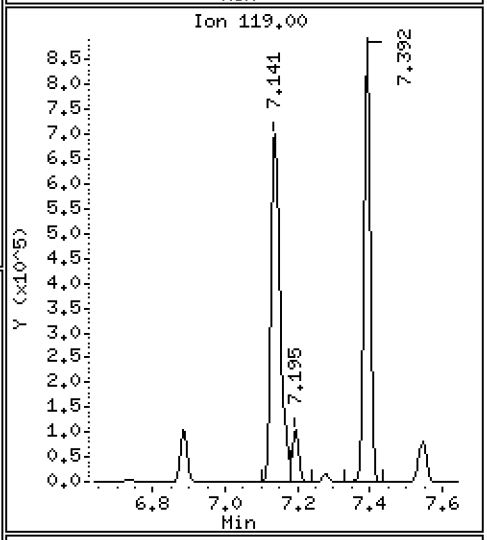
Column phase: DB-VRX Column diameter: 0.25

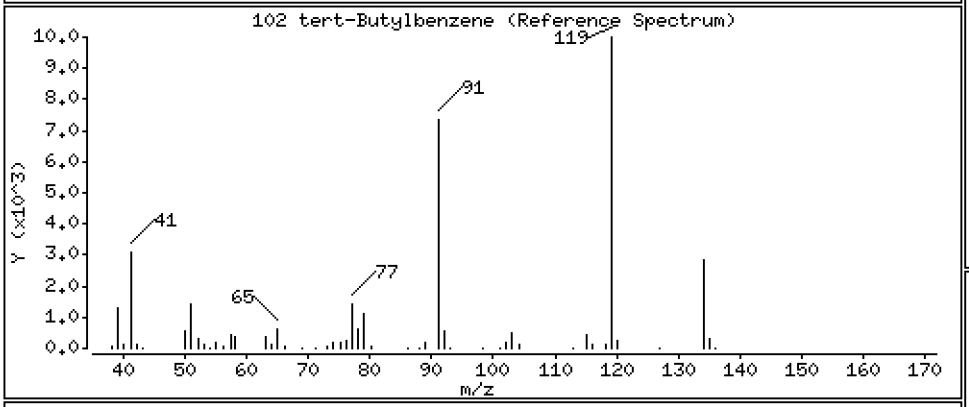
102 tert-Butylbenzene Concentration: 48.5825 ug/L

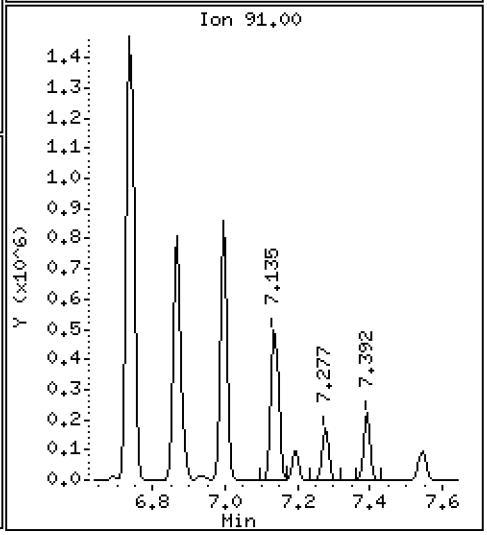


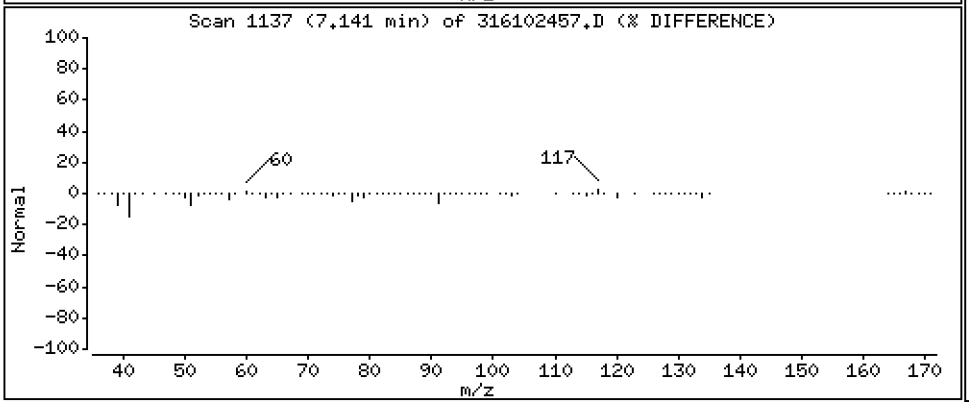












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 104

Date : 25-OCT-2016 00:52

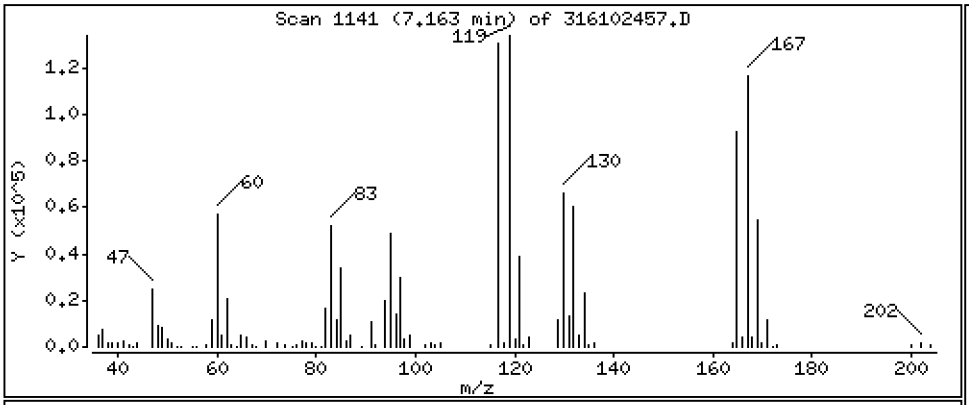
Client ID: Instrument: ms03.i

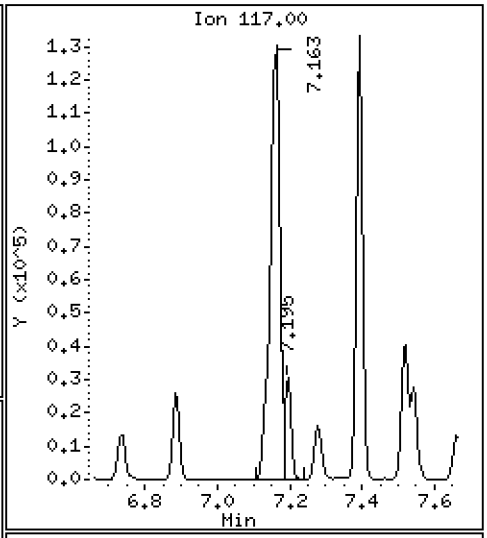
Sample Info: 1237;;1;1;4;;;

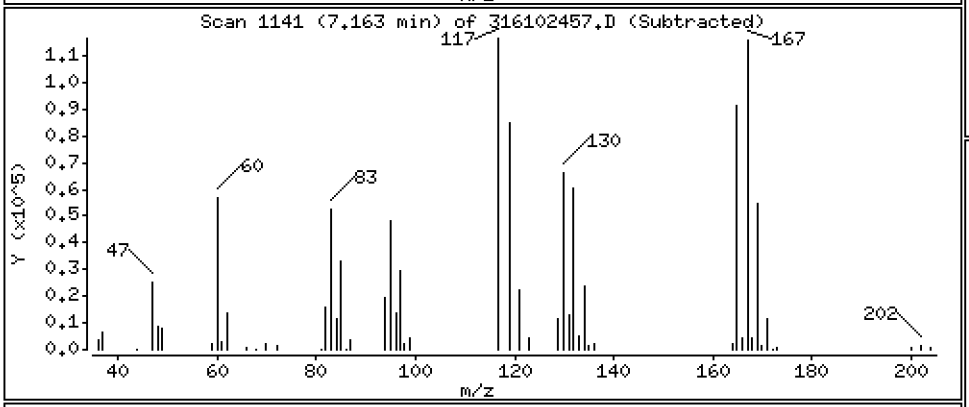
Purge Volume: 5.0 Operator: CJG

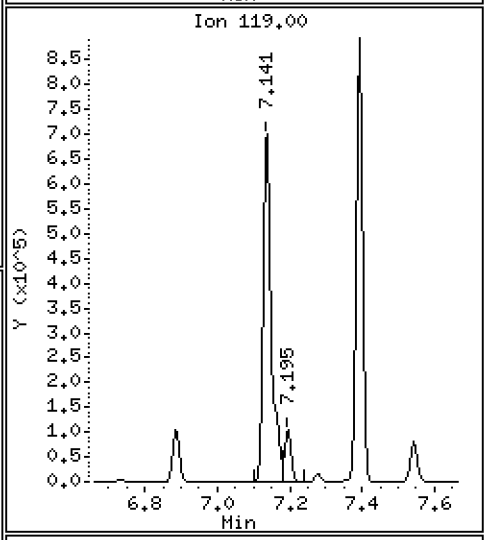
Column phase: DB-VRX Column diameter: 0.25

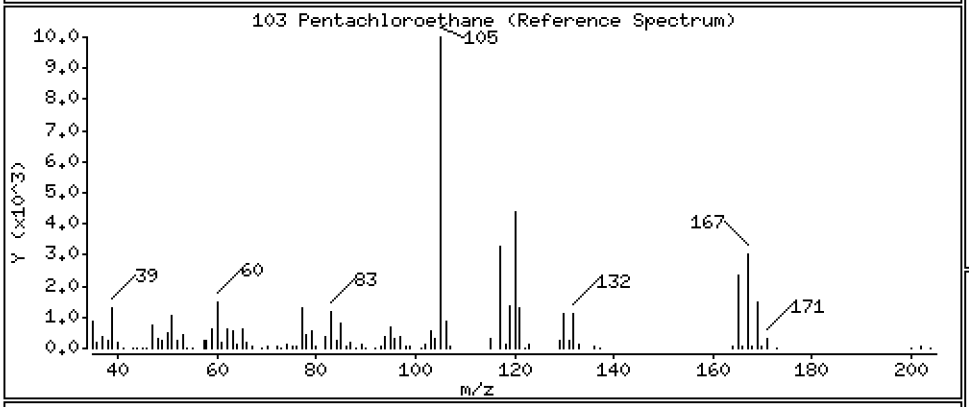
103 Pentachloroethane Concentration: 48.6575 ug/L

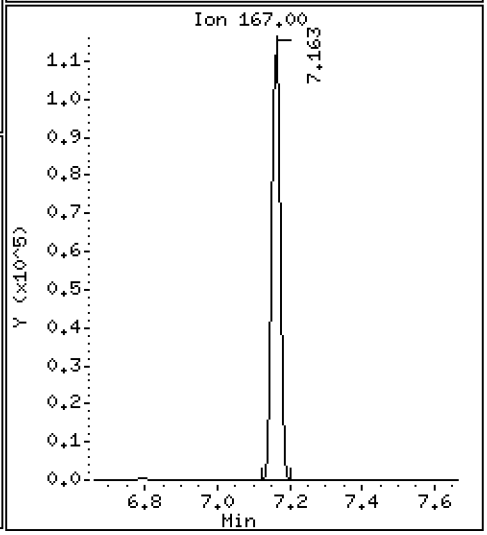


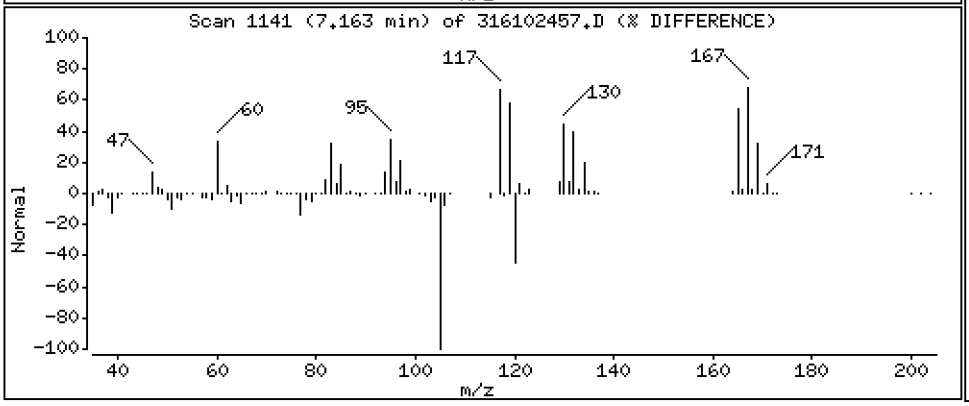












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 105

Date : 25-OCT-2016 00:52

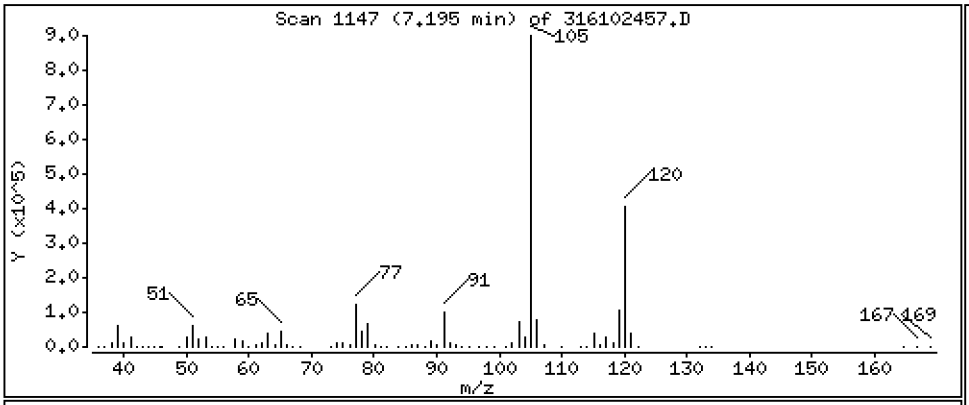
Client ID: Instrument: ms03.i

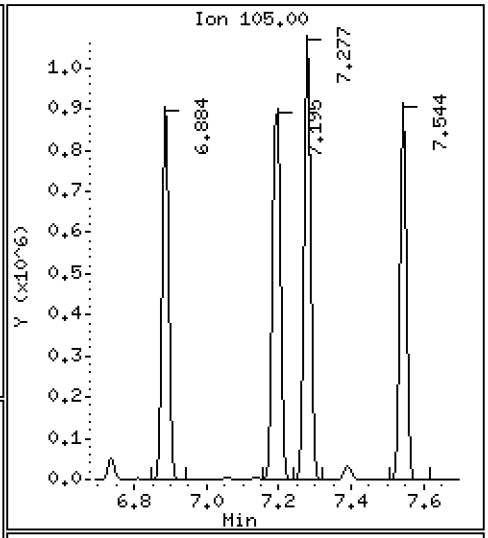
Sample Info: 1237;;1;1;4;;;

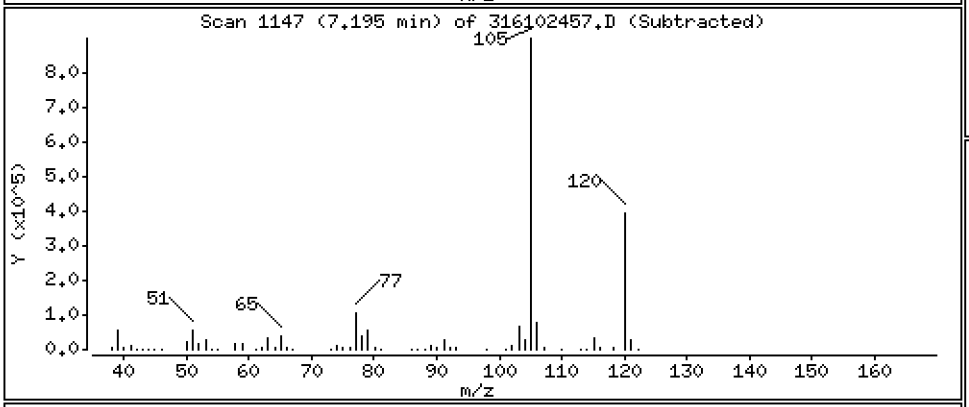
Purge Volume: 5.0 Operator: CJG

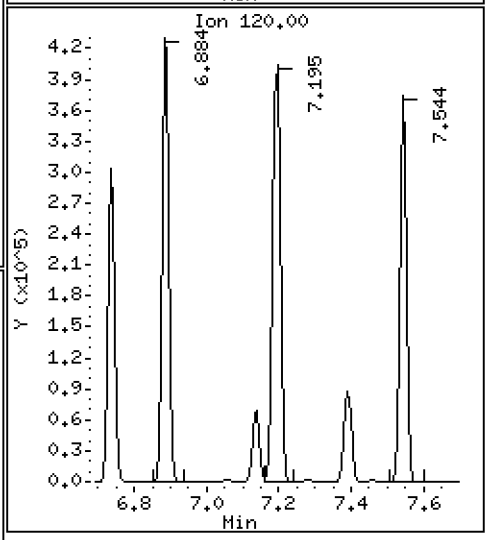
Column phase: DB-VRX Column diameter: 0.25

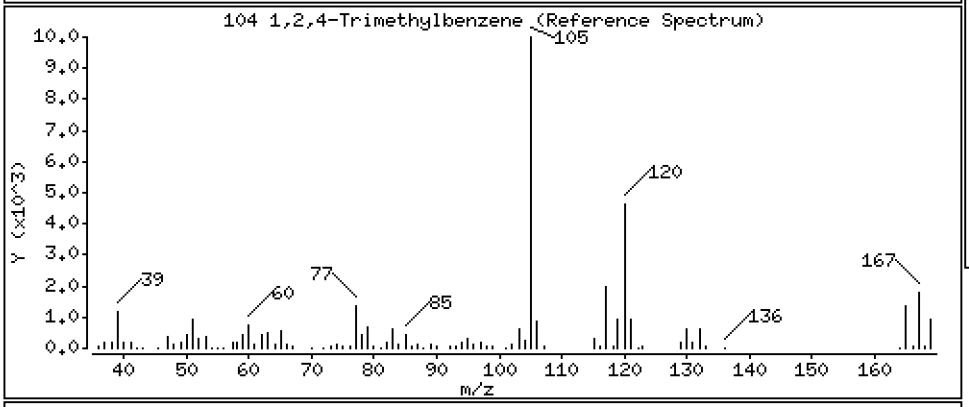
104 1,2,4-Trimethylbenzene Concentration: 48.7715 ug/L

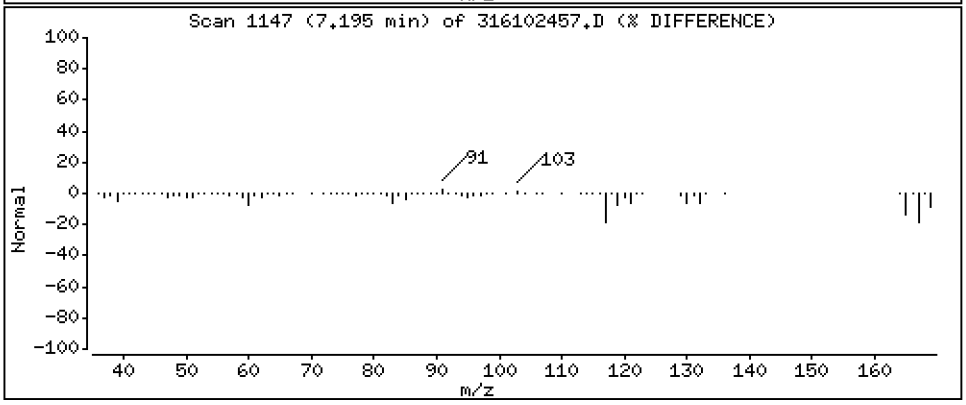












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 106

Date : 25-OCT-2016 00:52

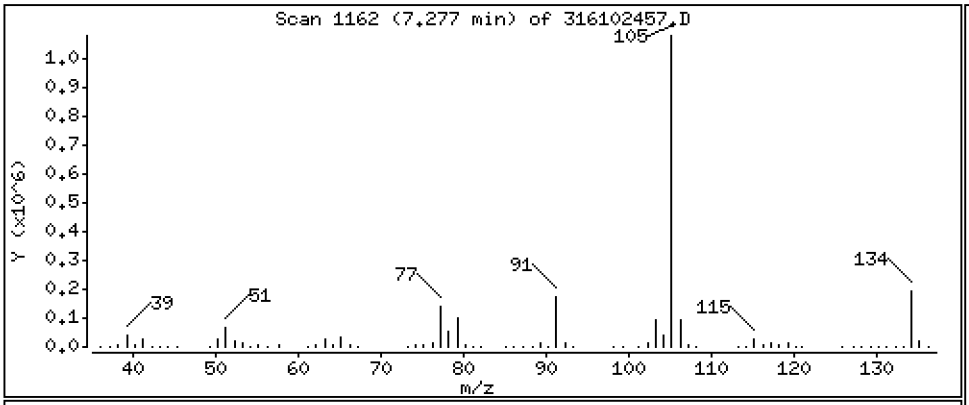
Client ID: Instrument: ms03.i

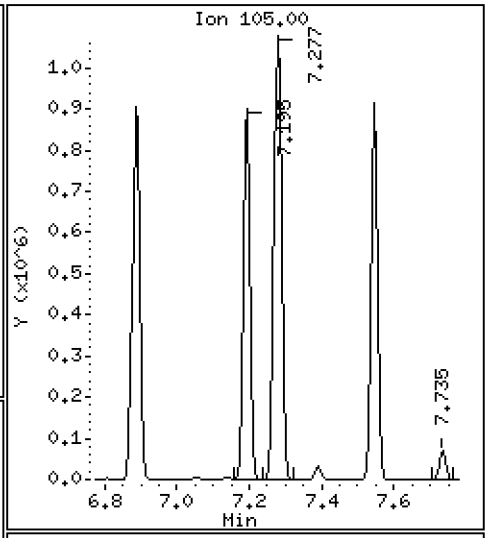
Sample Info: 1237;;1;1;4;;;

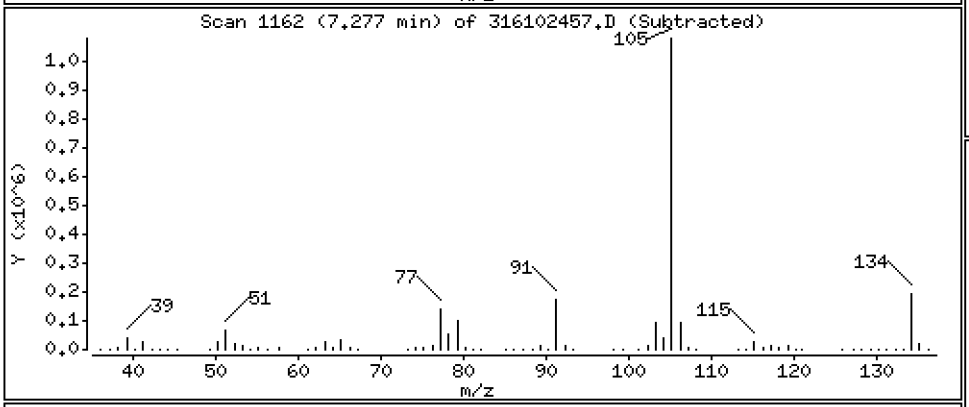
Purge Volume: 5.0 Operator: CJG

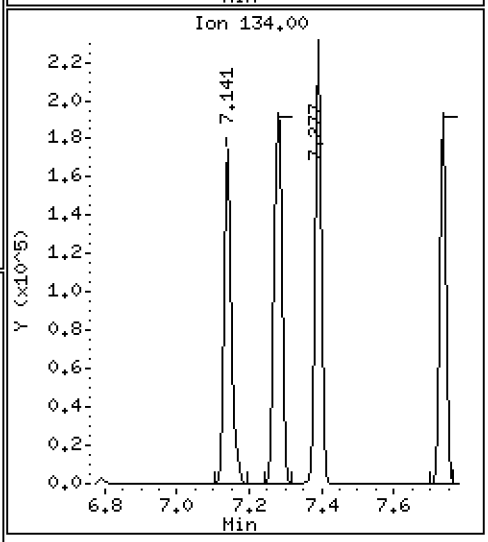
Column phase: DB-VRX Column diameter: 0.25

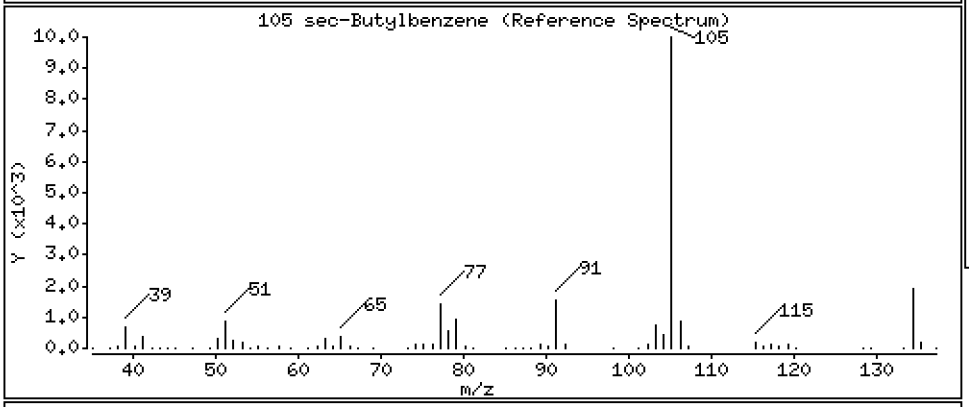
105 sec-Butylbenzene Concentration: 48.1786 ug/L

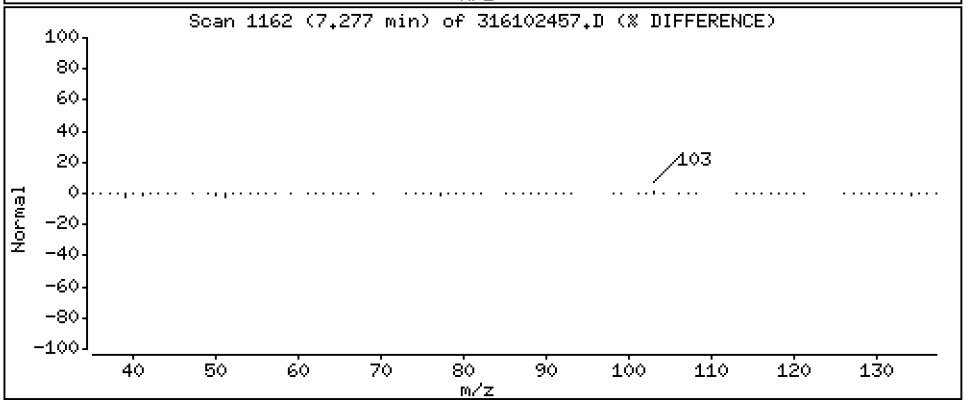












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 107

Date : 25-OCT-2016 00:52

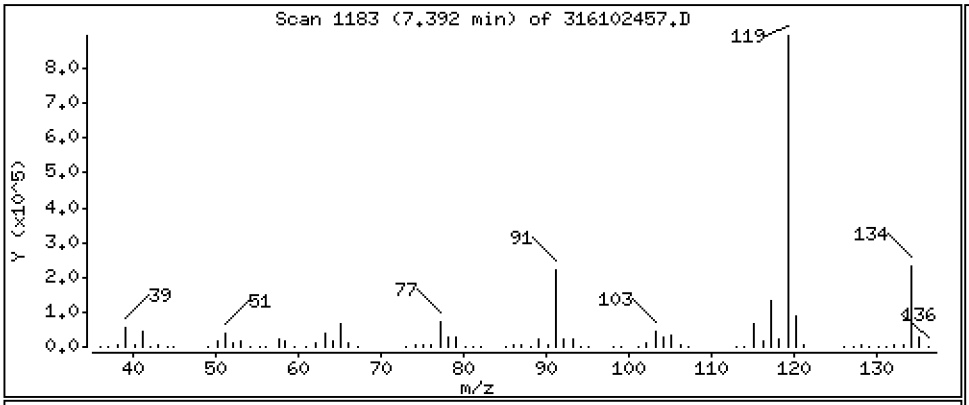
Client ID: Instrument: ms03.i

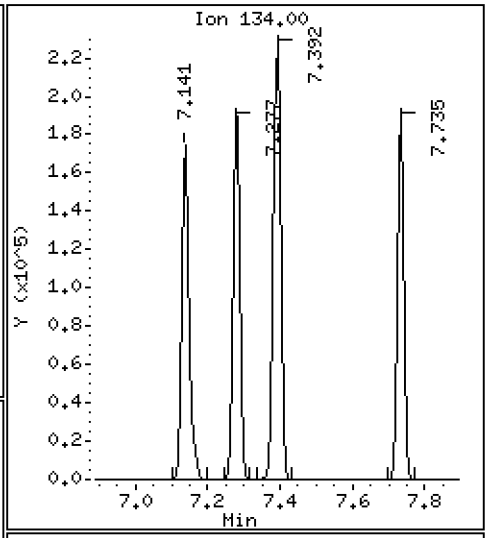
Sample Info: 1237;;1;1;4;;;

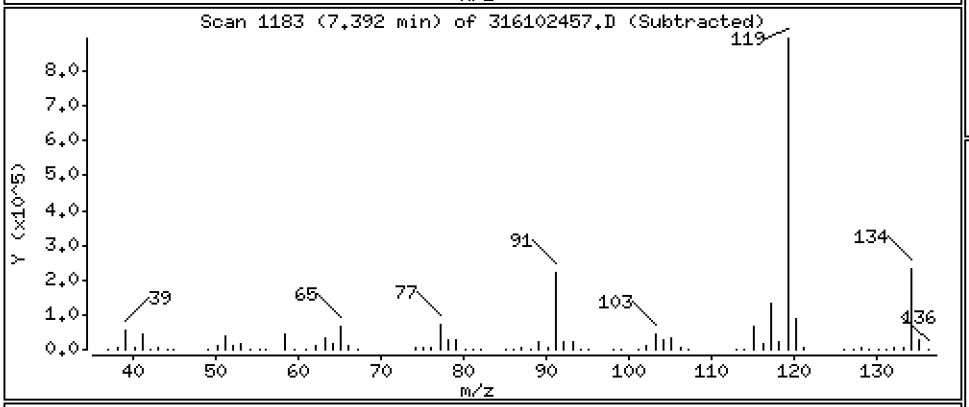
Purge Volume: 5.0 Operator: CJG

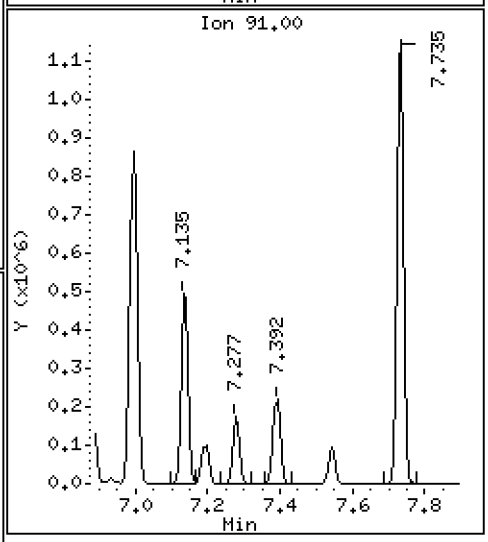
Column phase: DB-VRX Column diameter: 0.25

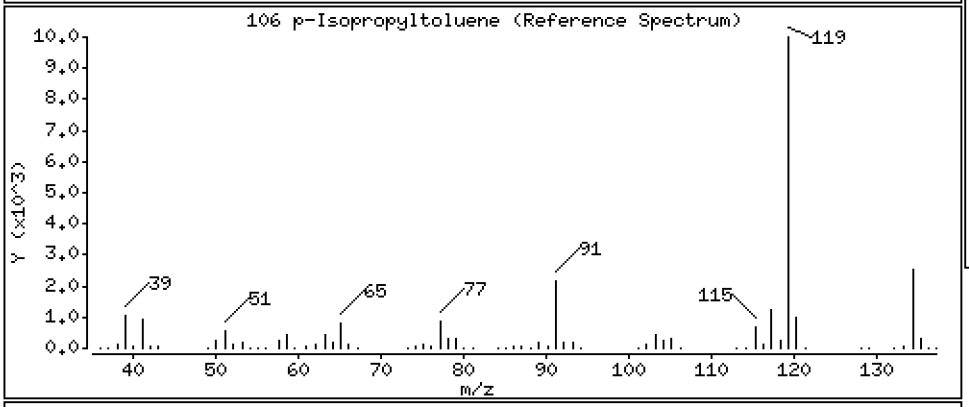
106 p-Isopropyltoluene Concentration: 48.3429 ug/L

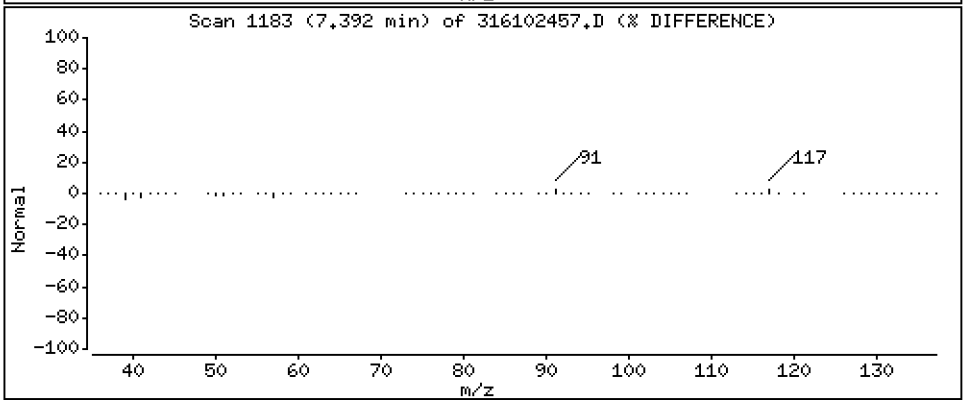












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 108

Date : 25-OCT-2016 00:52

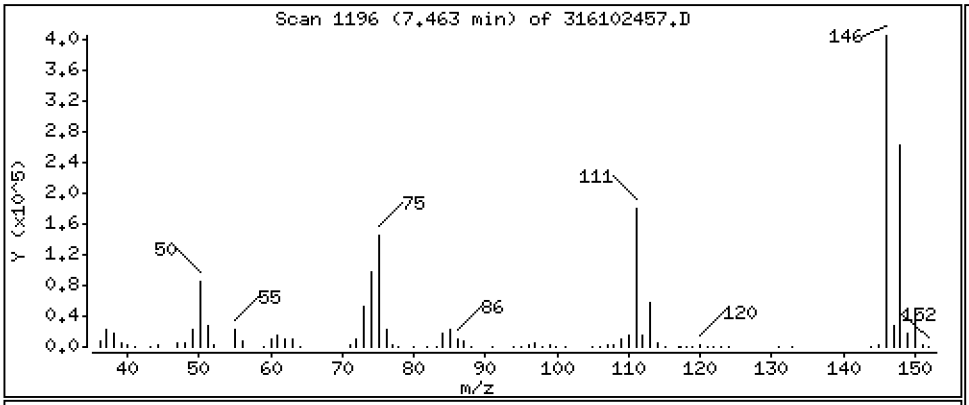
Client ID: Instrument: ms03.i

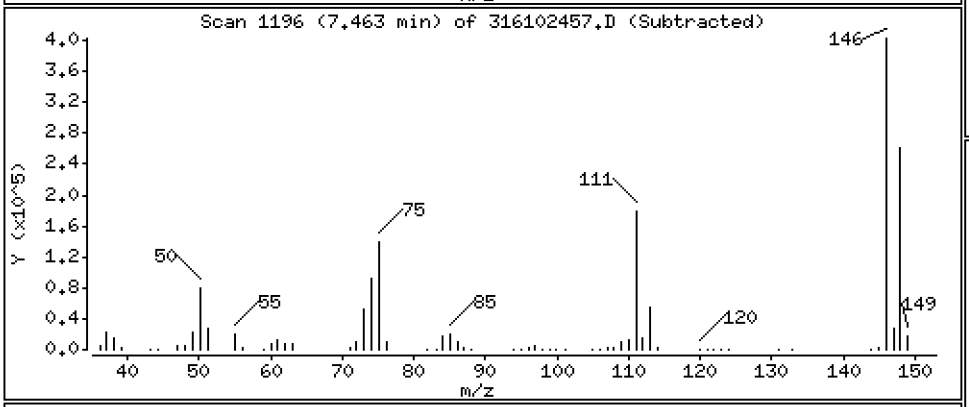
Sample Info: 1237;;1;1;4;;;

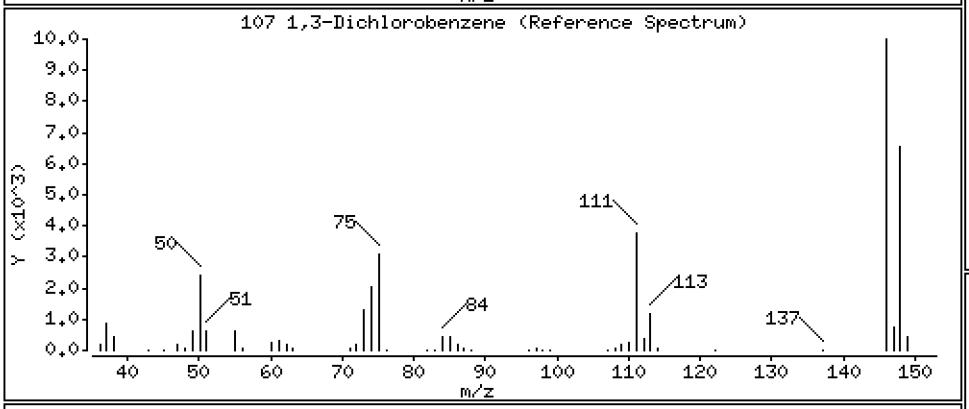
Purge Volume: 5.0 Operator: CJG

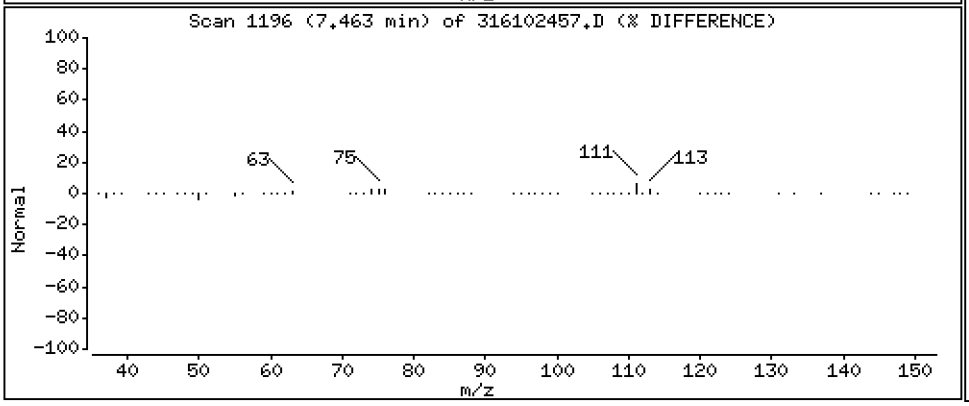
Column phase: DB-VRX Column diameter: 0.25

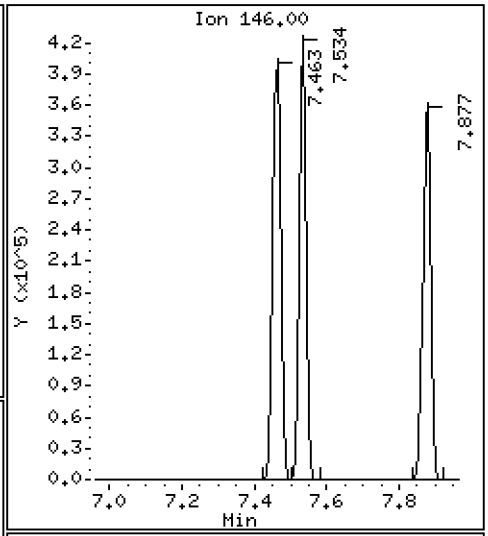
107 1,3-Dichlorobenzene Concentration: 48.4938 ug/L

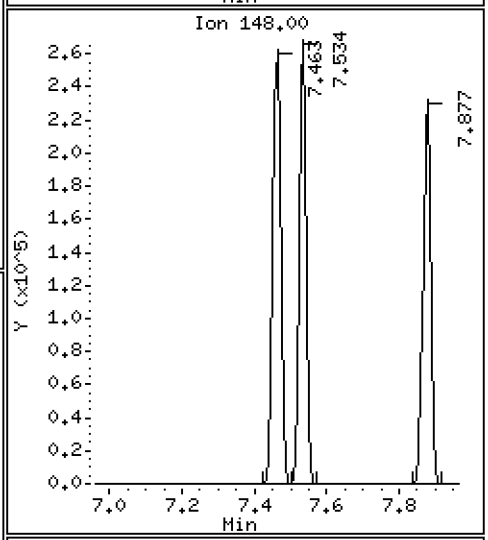


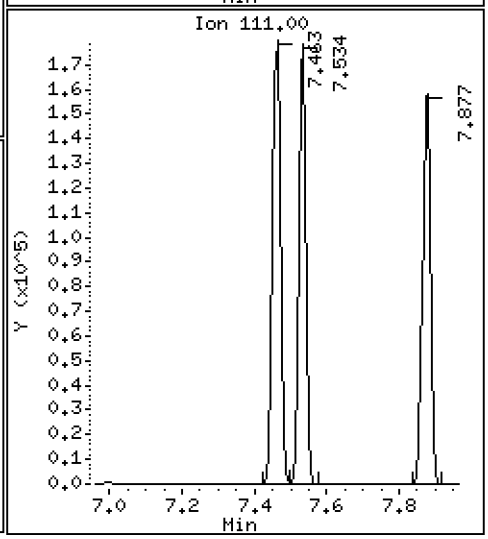












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 109

Date : 25-OCT-2016 00:52

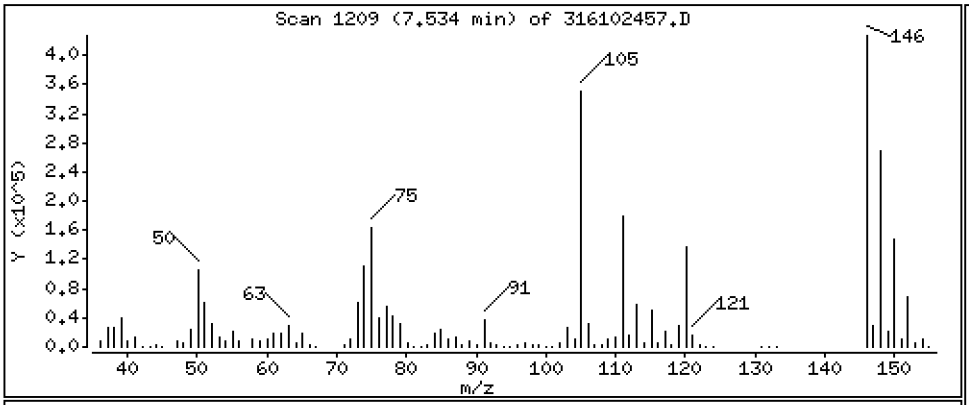
Client ID: Instrument: ms03.i

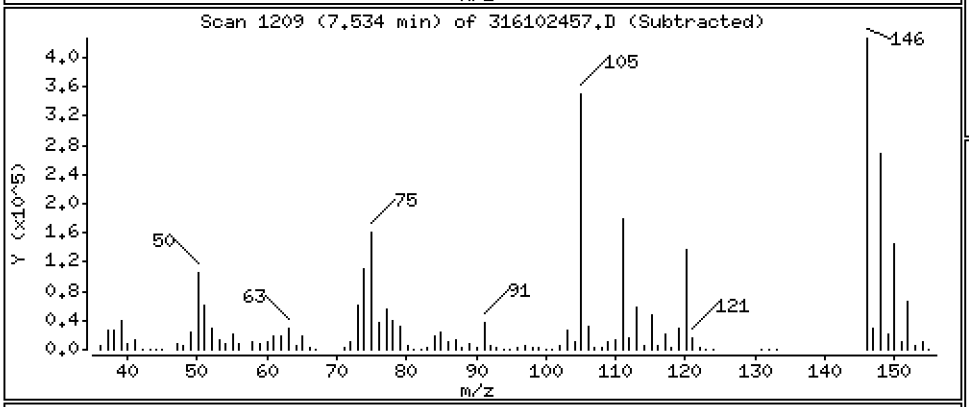
Sample Info: 1237;;1;1;4;;;

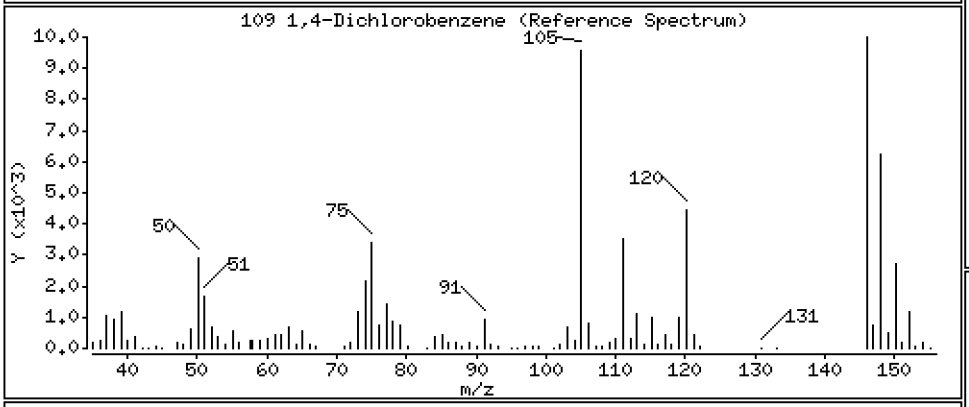
Purge Volume: 5.0 Operator: CJG

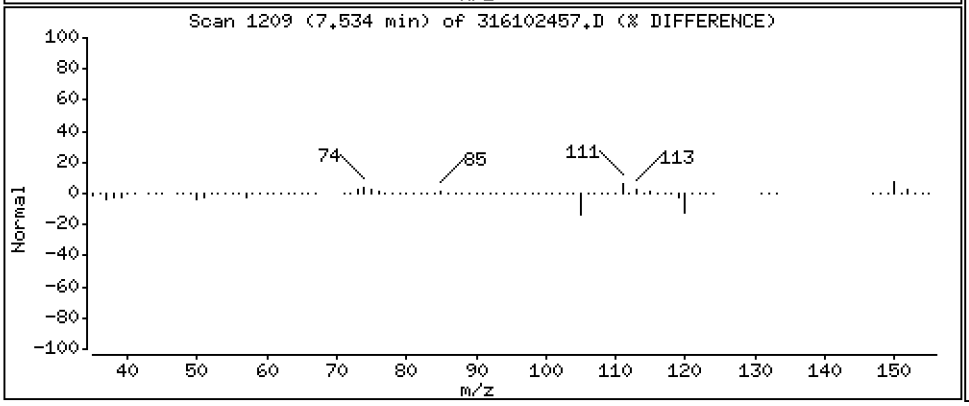
Column phase: DB-VRX Column diameter: 0.25

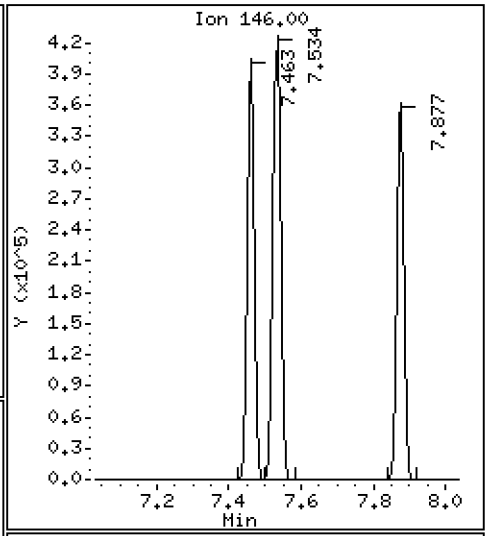
109 1,4-Dichlorobenzene Concentration: 48.8968 ug/L

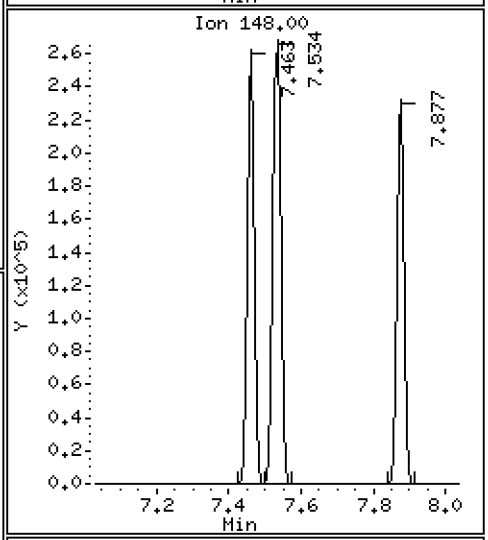


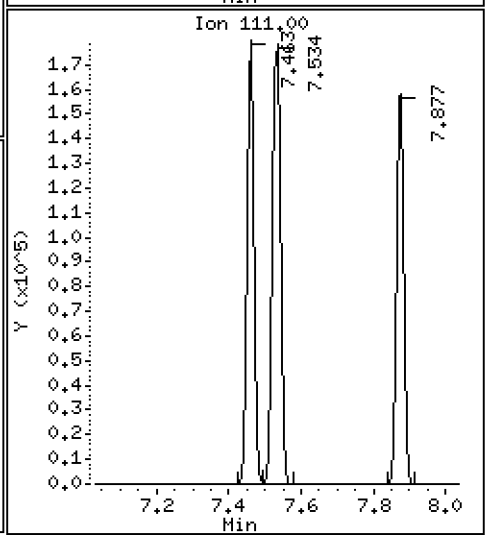












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 110

Date : 25-OCT-2016 00:52

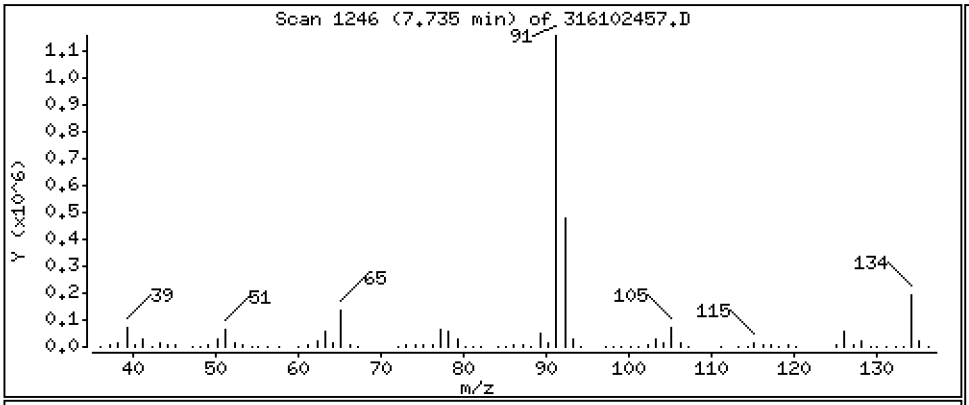
Client ID: Instrument: ms03.i

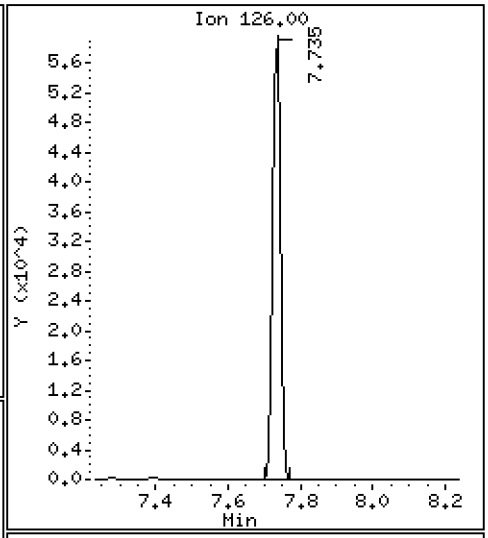
Sample Info: 1237;;1;1;4;;;

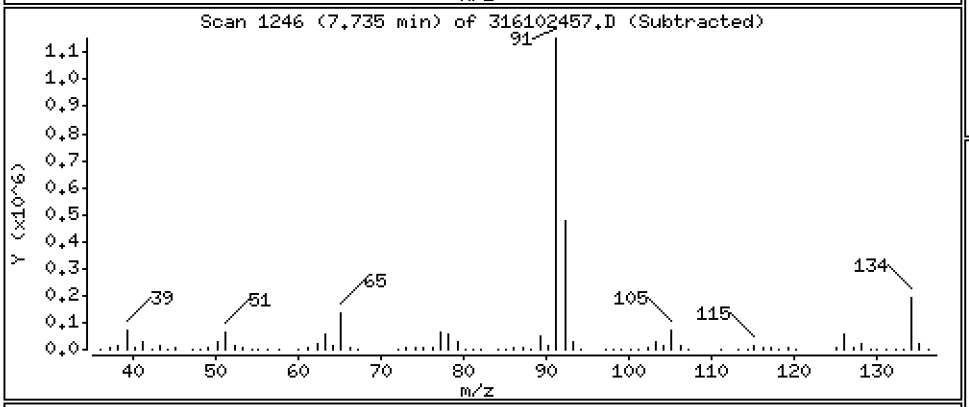
Purge Volume: 5.0 Operator: CJG

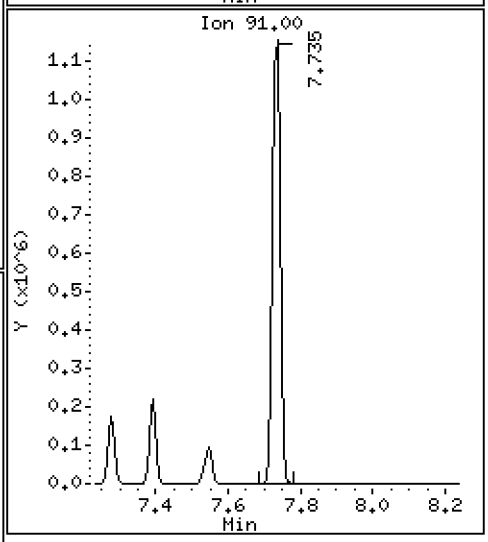
Column phase: DB-VRX Column diameter: 0.25

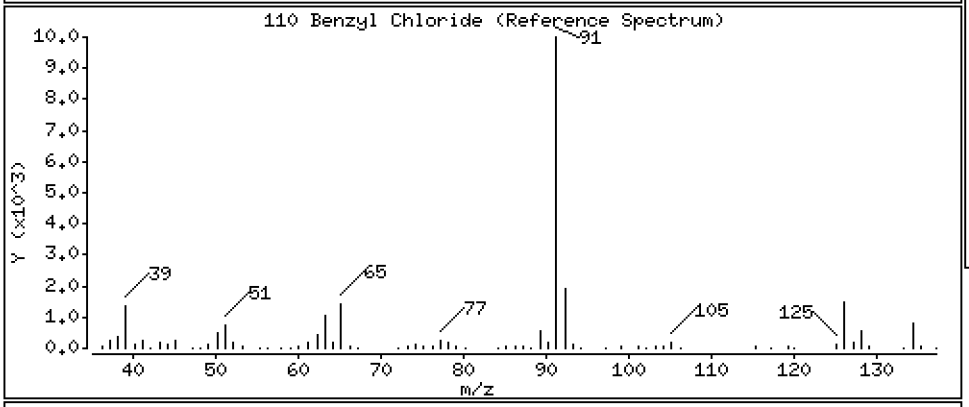
110 Benzyl Chloride Concentration: 48.1619 ug/L

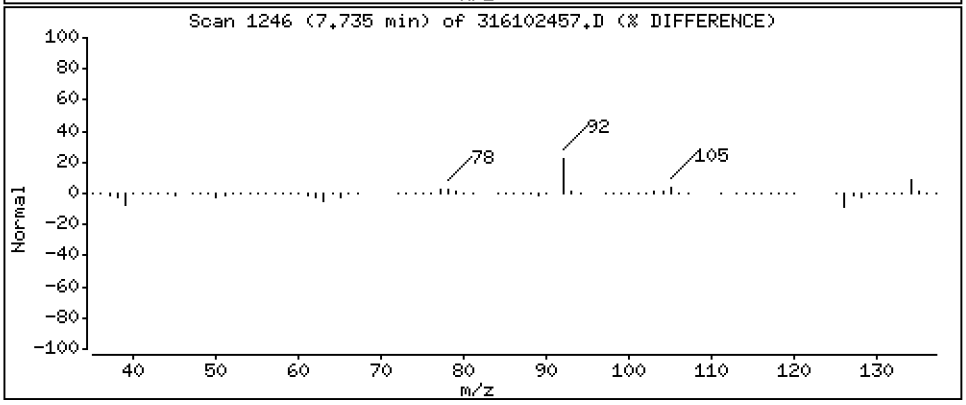












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 111

Date : 25-OCT-2016 00:52

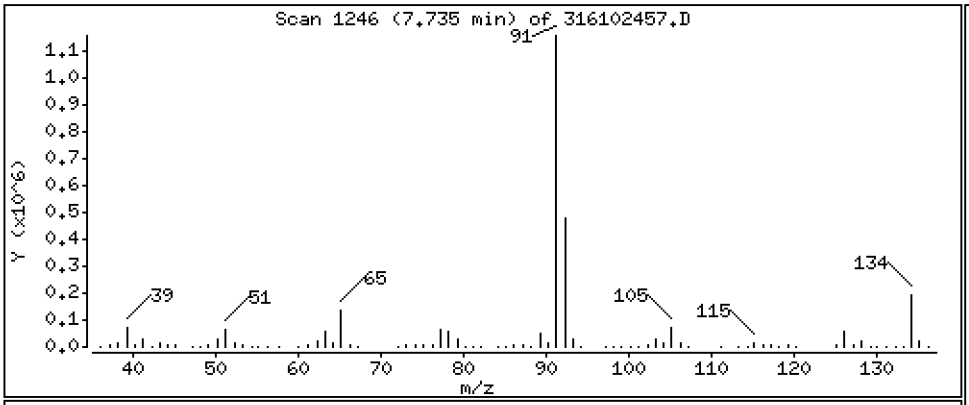
Client ID: Instrument: ms03.i

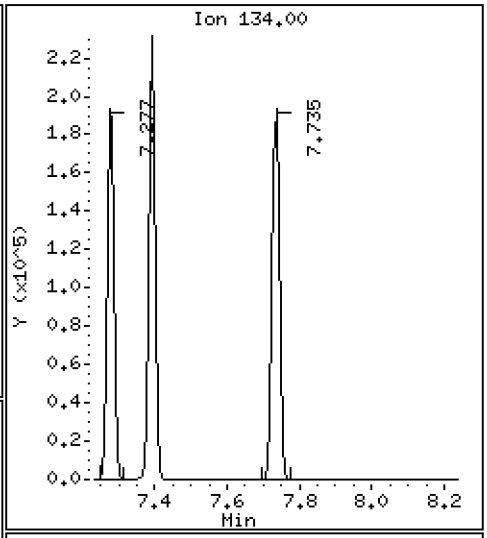
Sample Info: 1237;;1;1;4;;;

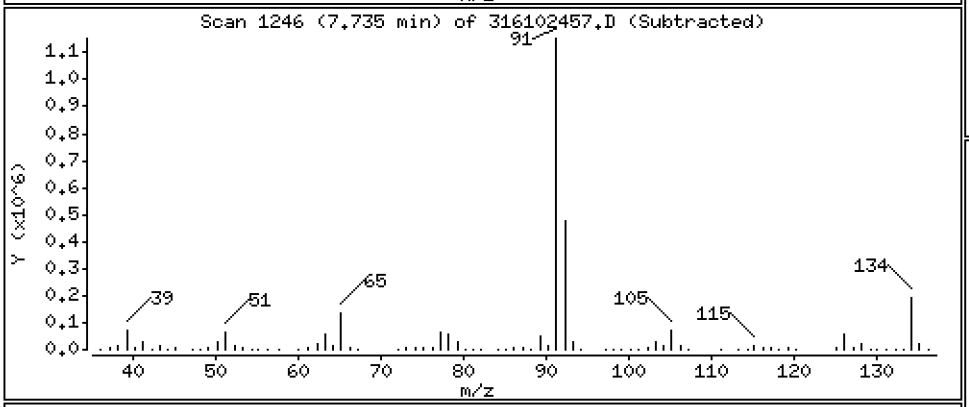
Purge Volume: 5.0 Operator: CJG

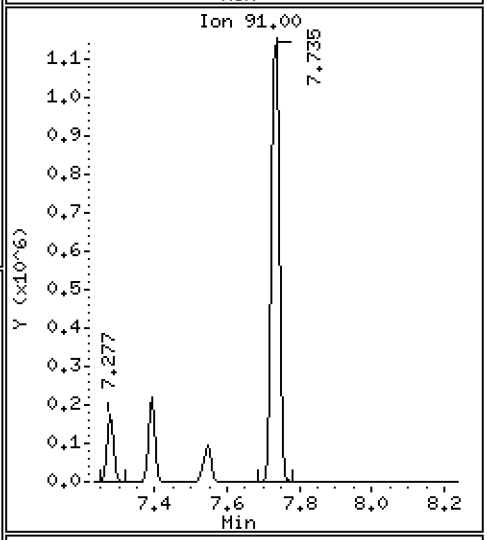
Column phase: DB-VRX Column diameter: 0.25

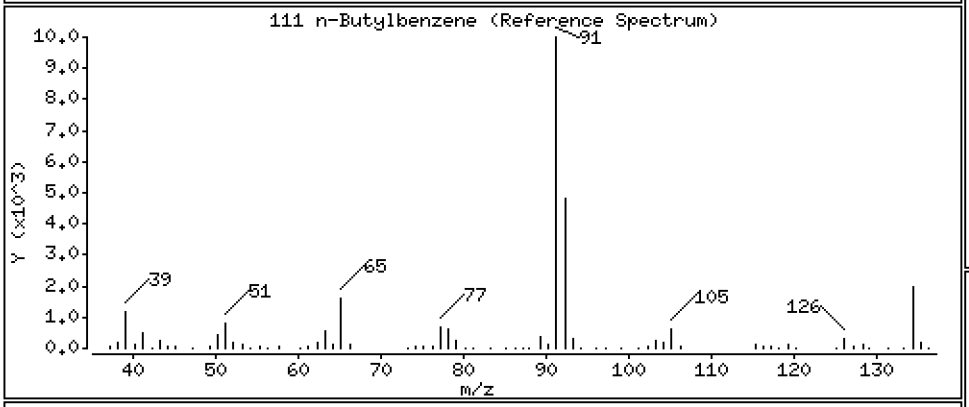
111 n-Butylbenzene Concentration: 47.9123 ug/L

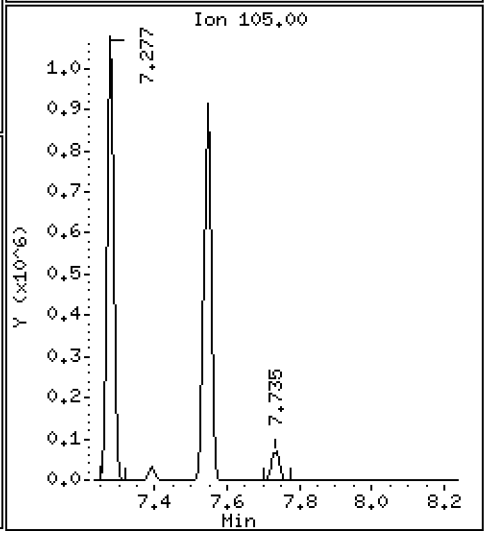


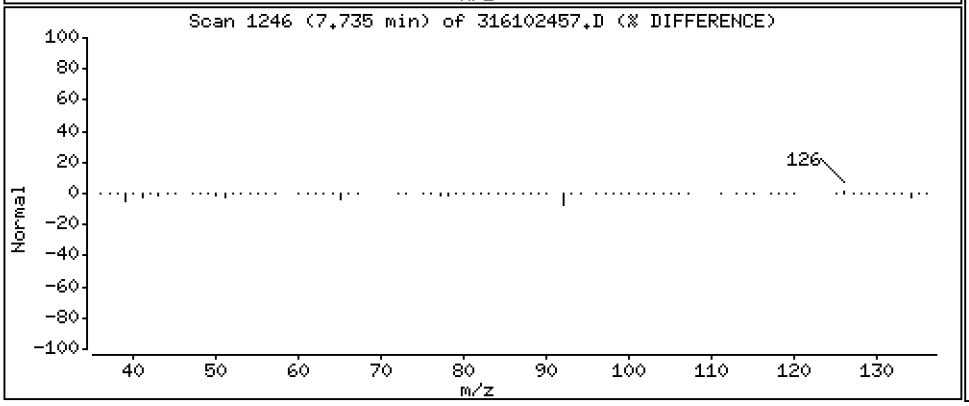












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 112

Date : 25-OCT-2016 00:52

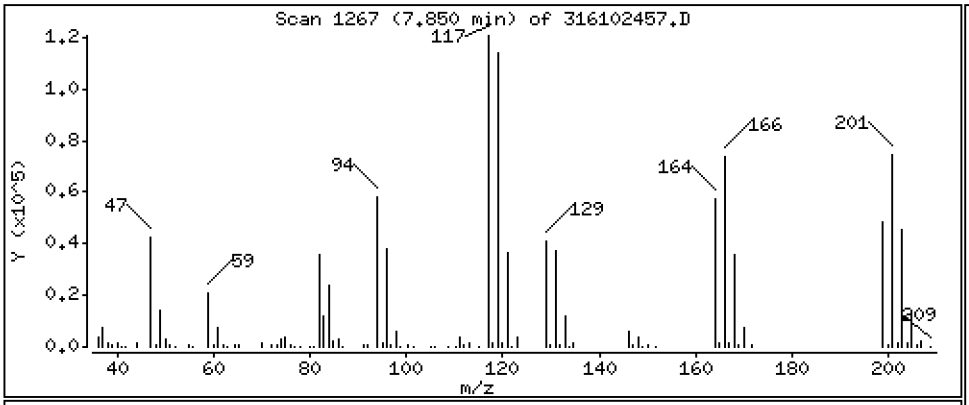
Client ID: Instrument: ms03.i

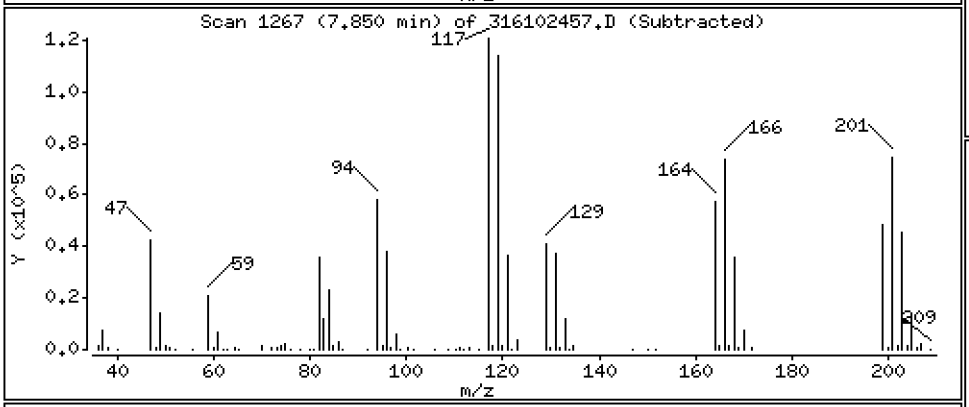
Sample Info: 1237;;1;1;4;;;

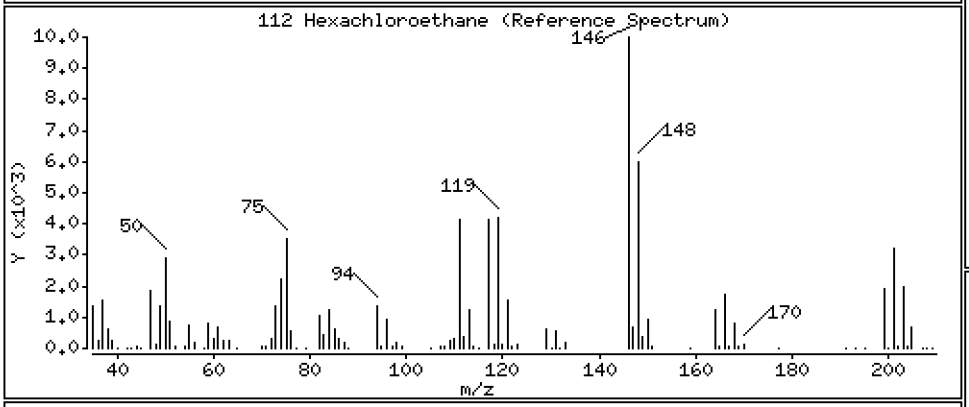
Purge Volume: 5.0 Operator: CJG

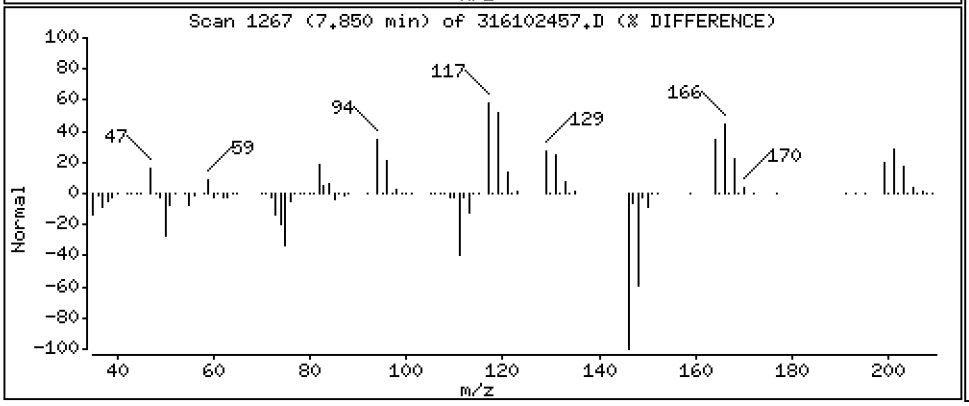
Column phase: DB-VRX Column diameter: 0.25

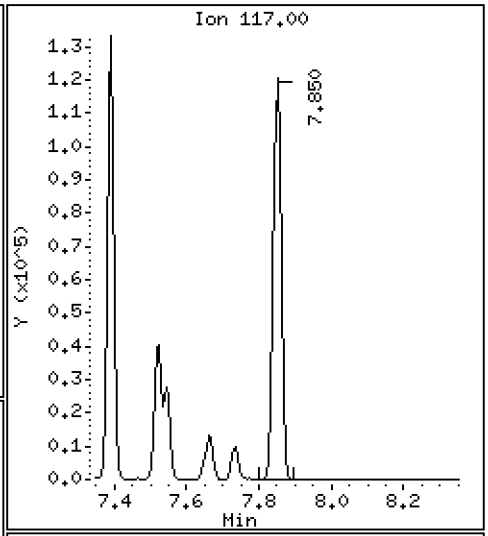
112 Hexachloroethane Concentration: 47.1132 ug/L

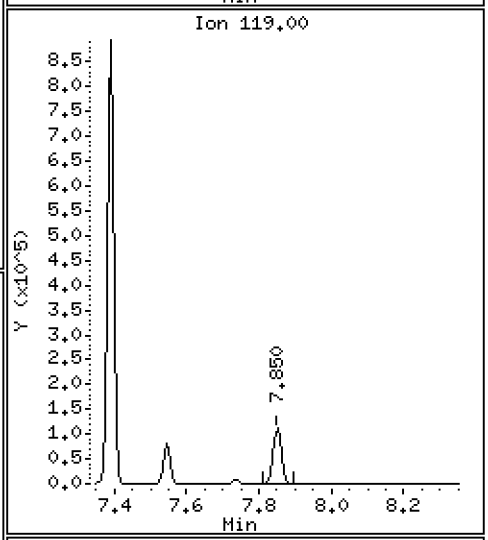


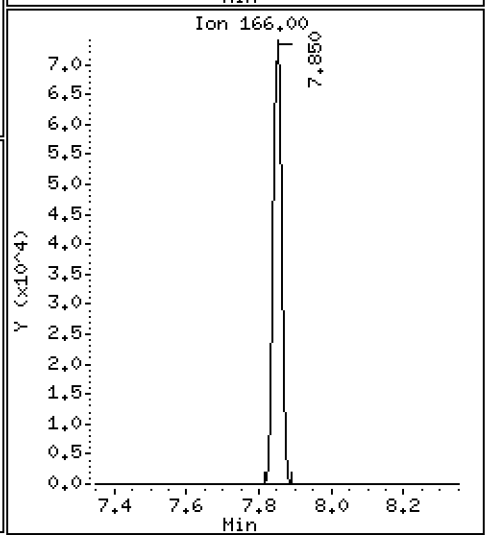












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 113

Date : 25-OCT-2016 00:52

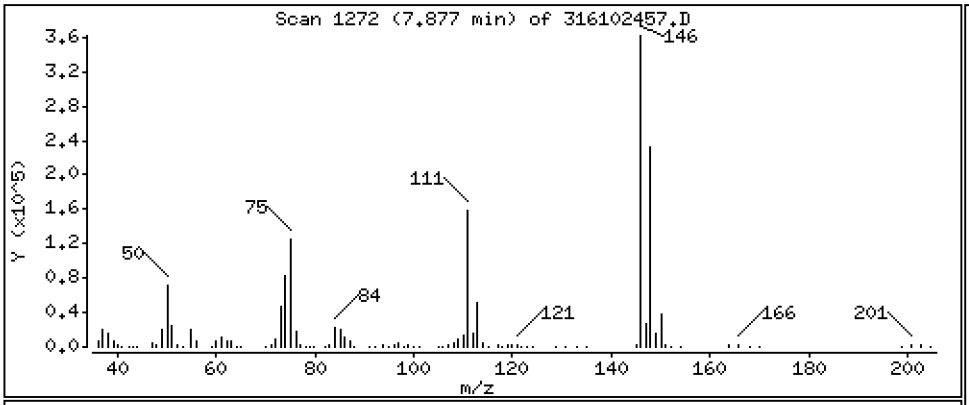
Client ID: Instrument: ms03.i

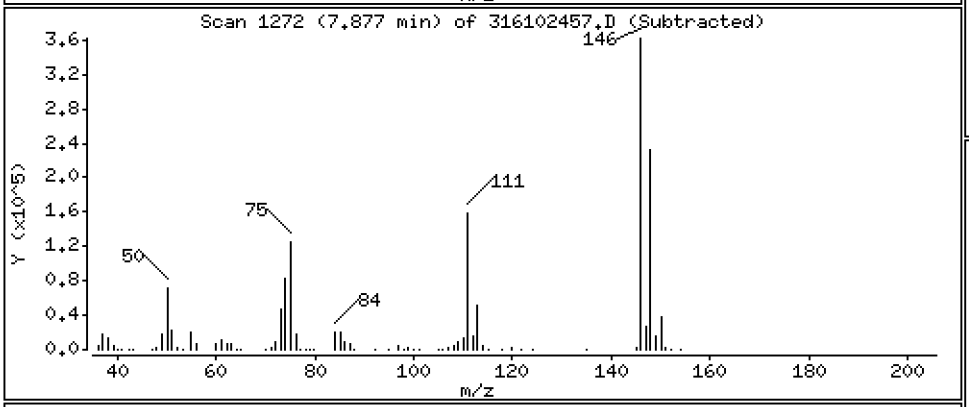
Sample Info: 1237;;1;1;4;;;

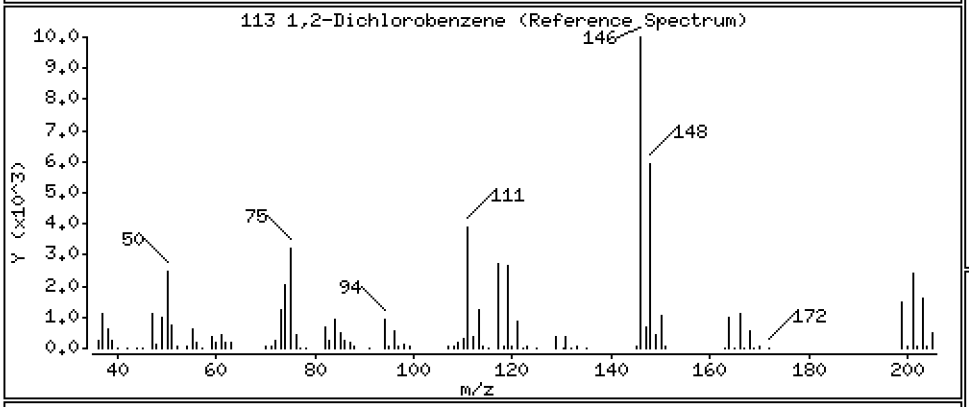
Purge Volume: 5.0 Operator: CJG

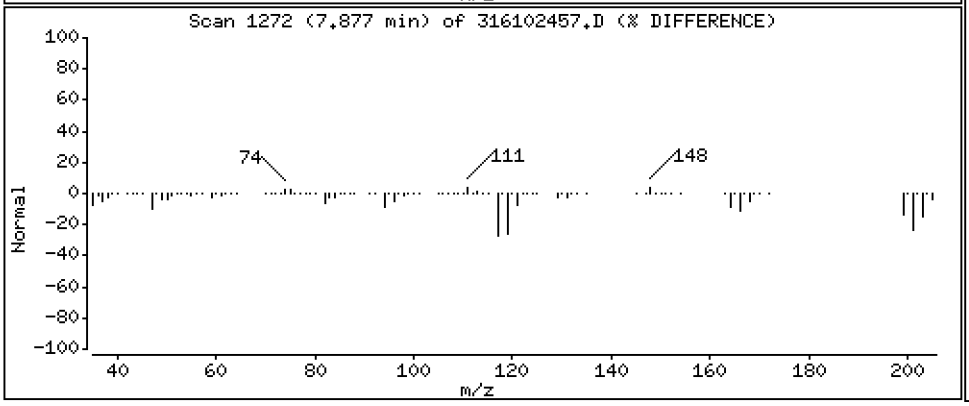
Column phase: DB-VRX Column diameter: 0.25

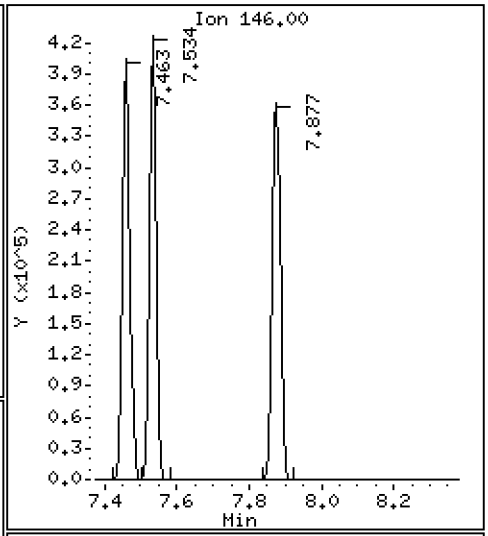
113 1,2-Dichlorobenzene Concentration: 49.1431 ug/L

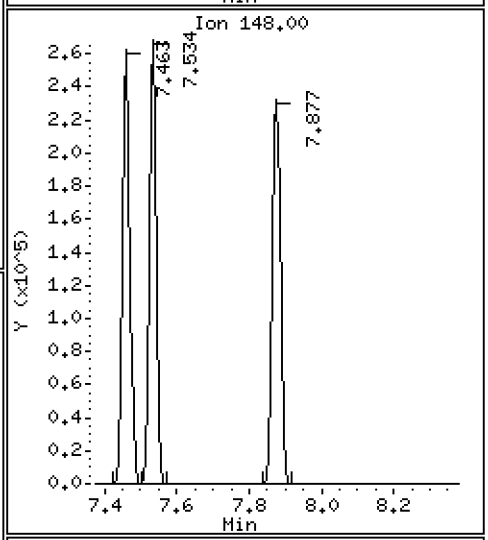


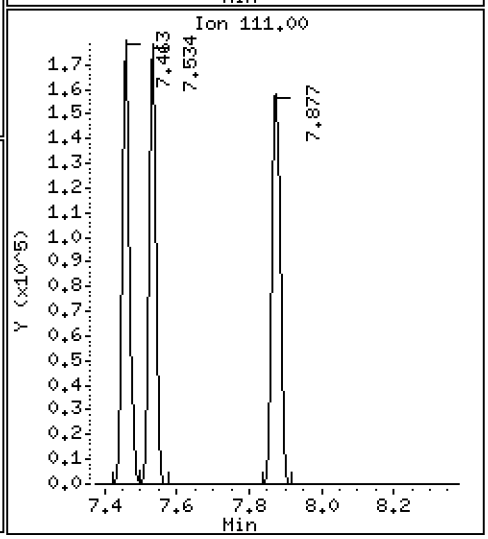












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 114

Date : 25-OCT-2016 00:52

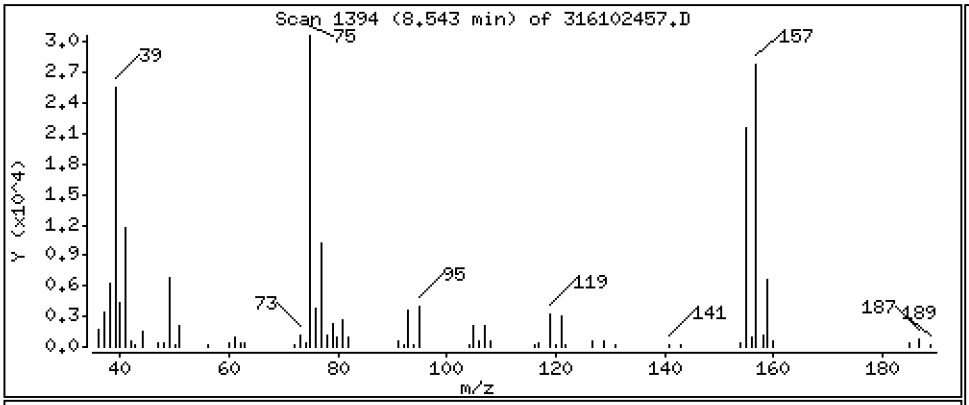
Client ID: Instrument: ms03.i

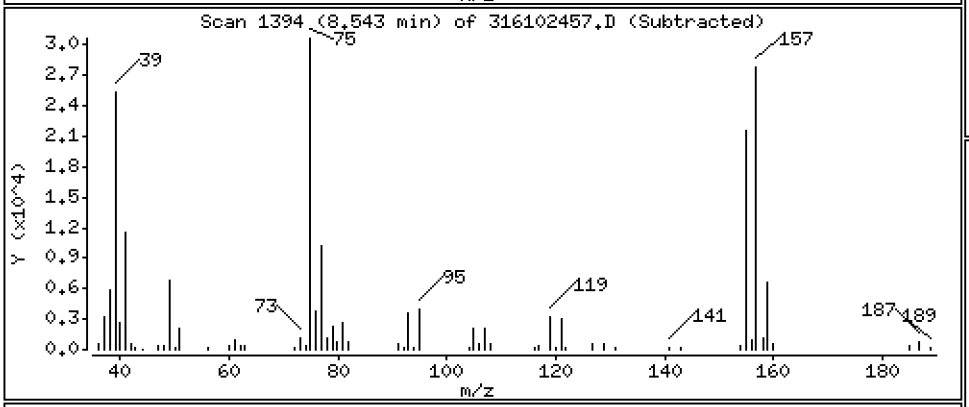
Sample Info: 1237;;1;1;4;;;

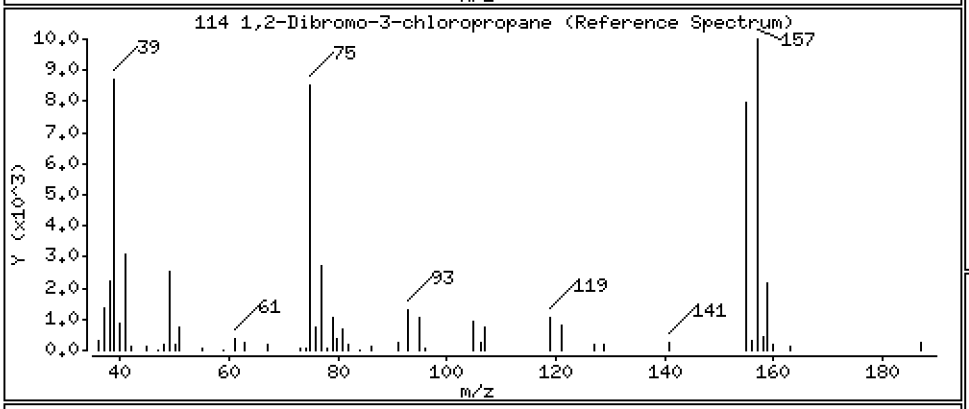
Purge Volume: 5.0 Operator: CJG

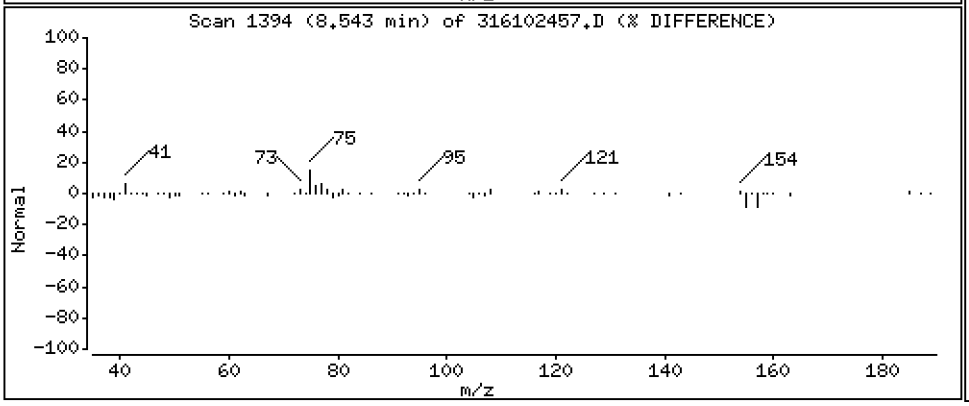
Column phase: DB-VRX Column diameter: 0.25

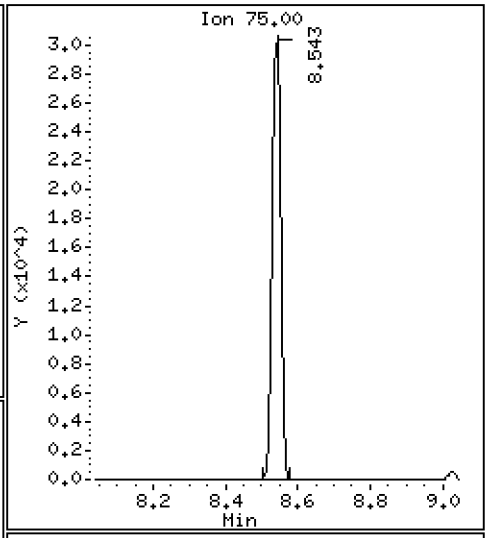
114 1,2-Dibromo-3-chloropropane Concentration: 50.4790 ug/L

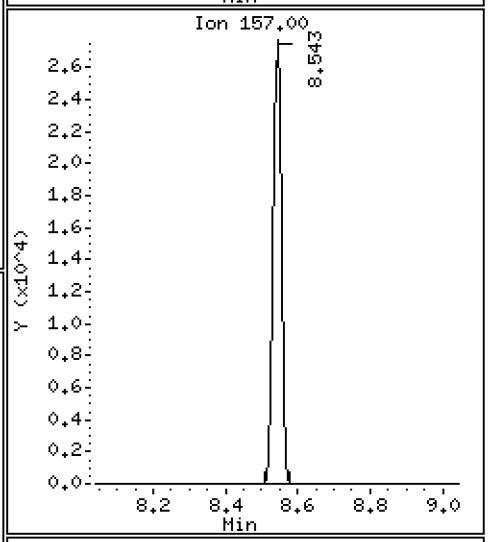


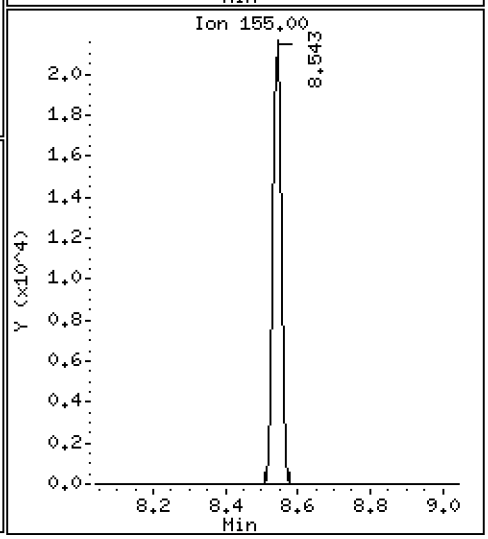












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 115

Date : 25-OCT-2016 00:52

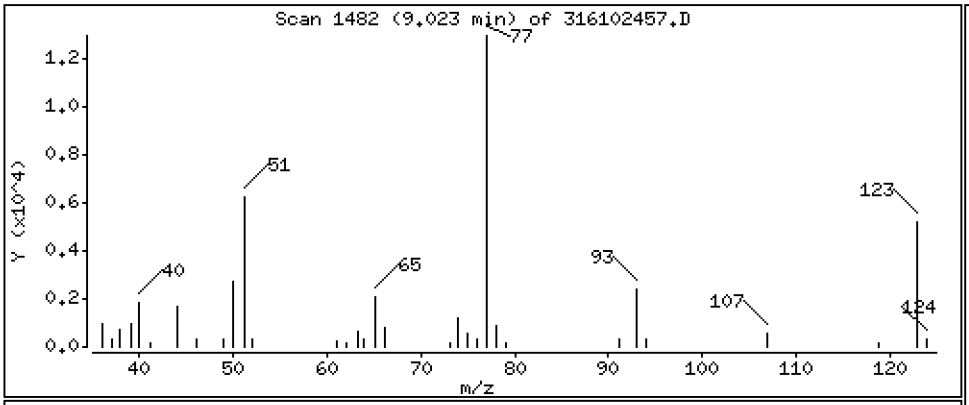
Client ID: Instrument: ms03.i

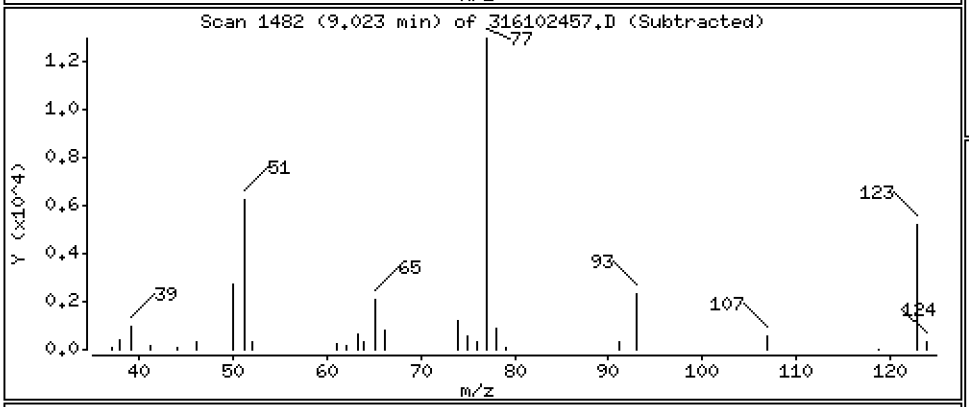
Sample Info: 1237;;1;1;4;;;

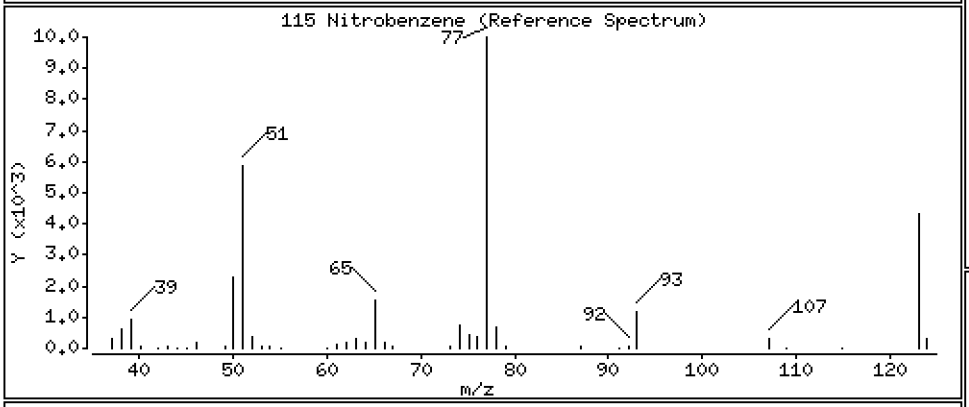
Purge Volume: 5.0 Operator: CJG

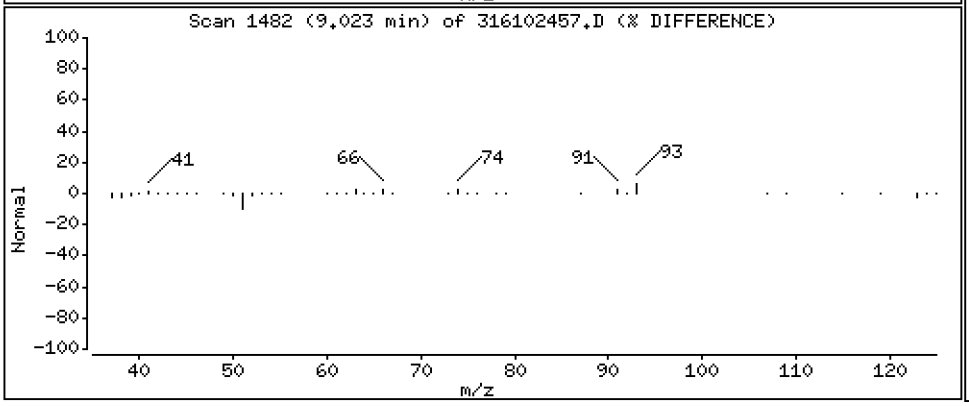
Column phase: DB-VRX Column diameter: 0.25

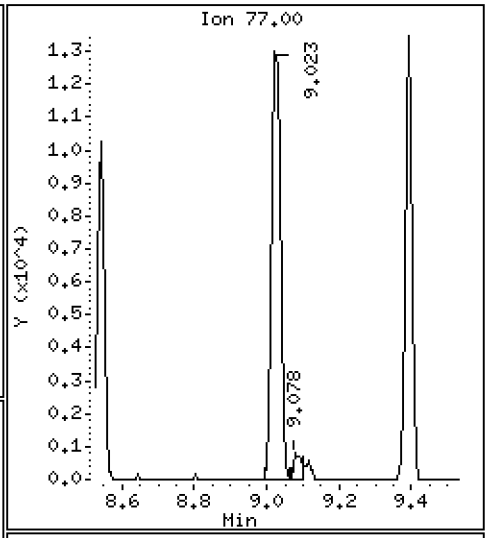
115 Nitrobenzene Concentration: 575.592 ug/L

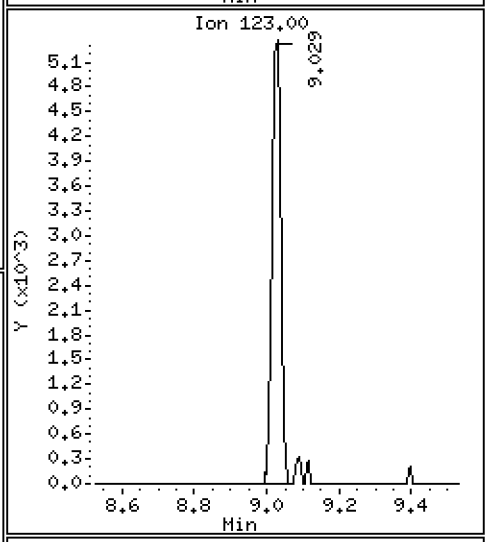


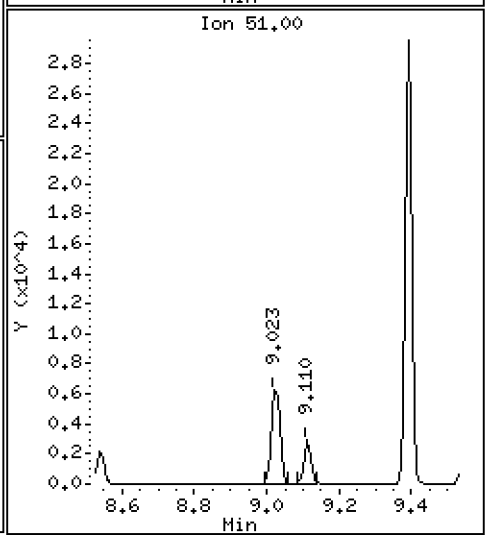












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 116

Date : 25-OCT-2016 00:52

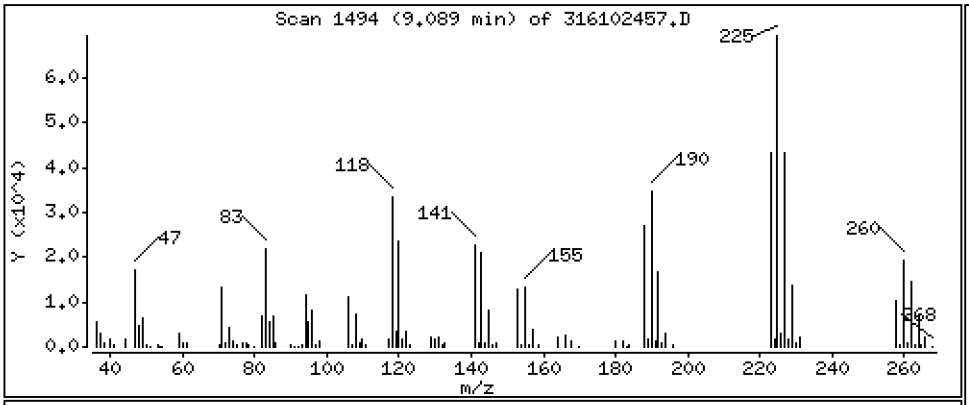
Client ID: Instrument: ms03.i

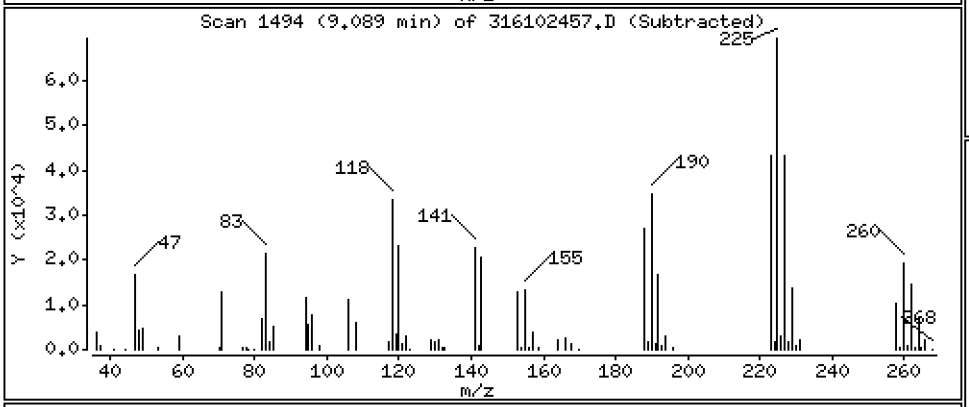
Sample Info: 1237;;1;1;4;;;

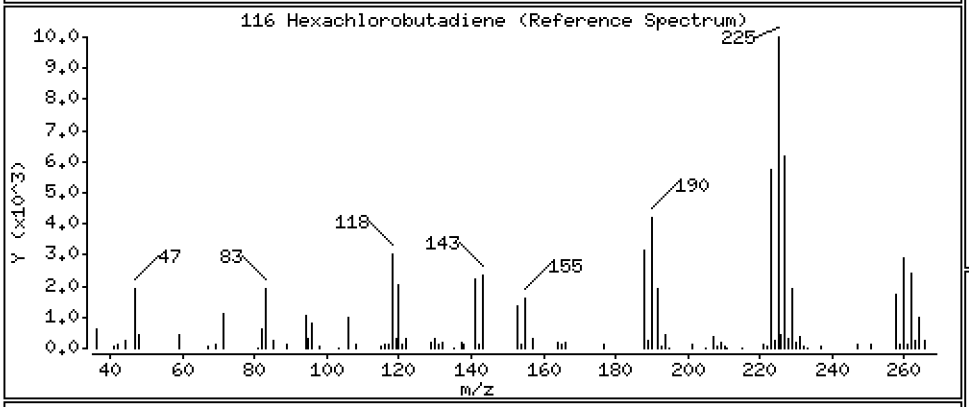
Purge Volume: 5.0 Operator: CJG

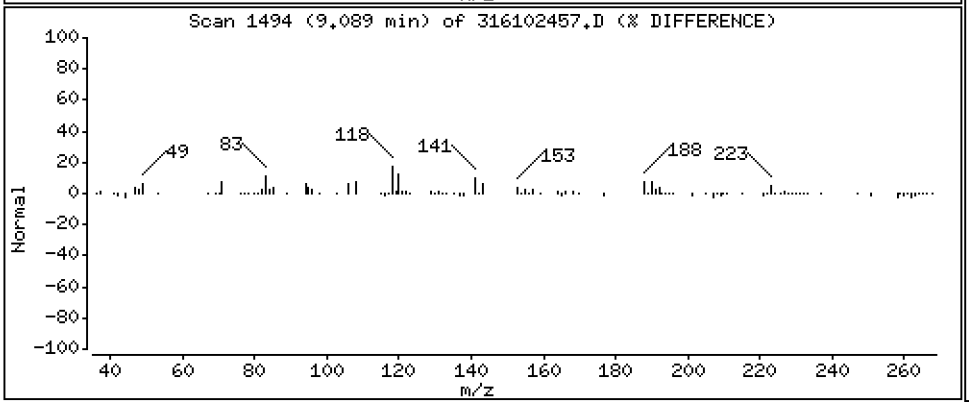
Column phase: DB-VRX Column diameter: 0.25

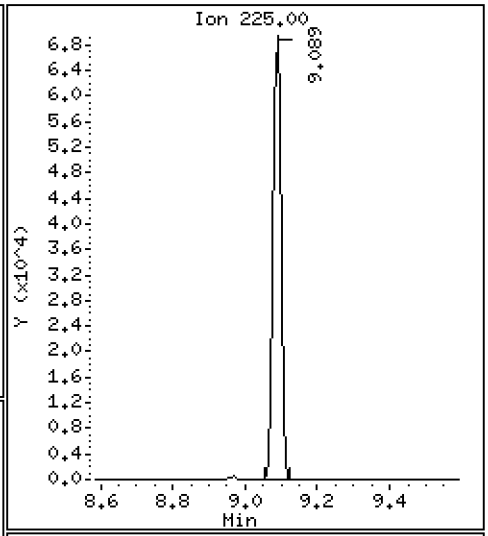
116 Hexachlorobutadiene Concentration: 47.9736 ug/L

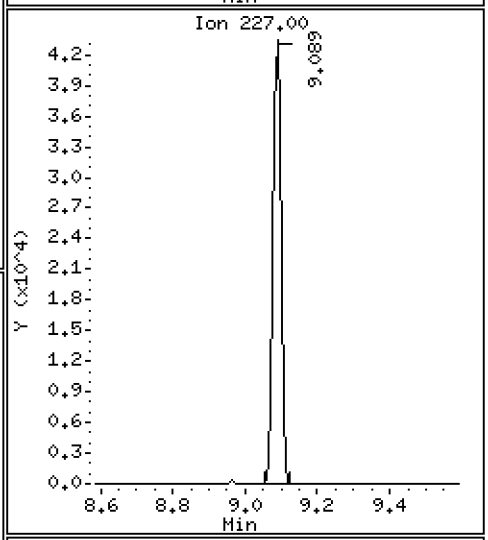


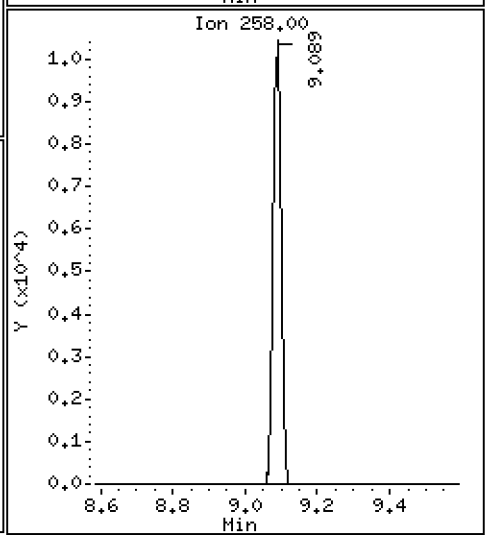












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 117

Date : 25-OCT-2016 00:52

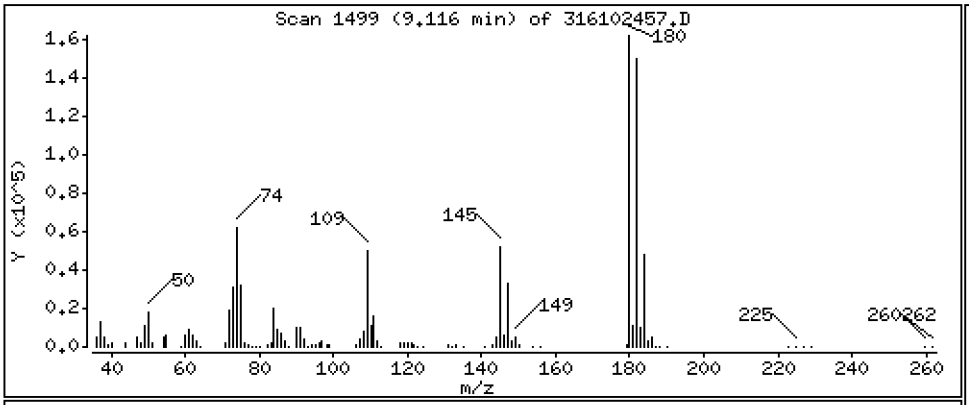
Client ID: Instrument: ms03.i

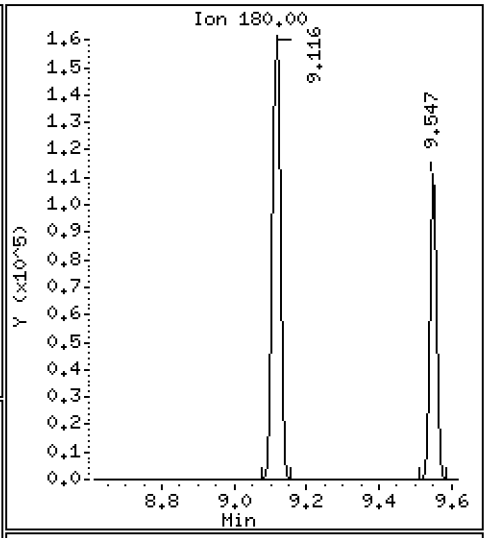
Sample Info: 1237;;1;1;4;;;

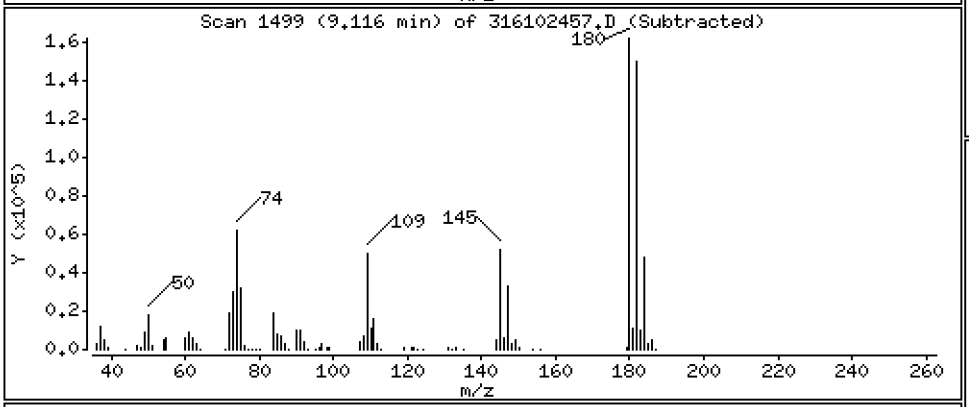
Purge Volume: 5.0 Operator: CJG

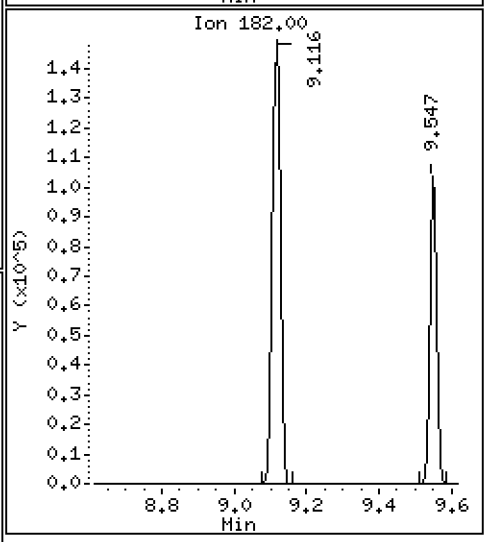
Column phase: DB-VRX Column diameter: 0.25

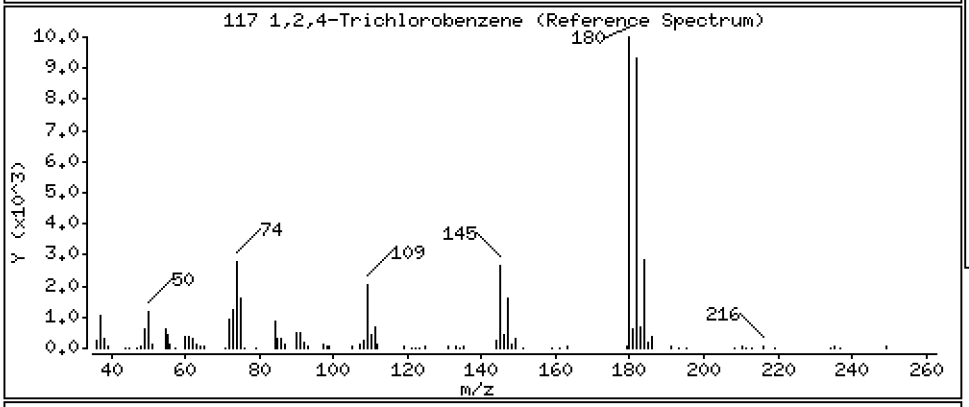
117 1,2,4-Trichlorobenzene Concentration: 49.3009 ug/L

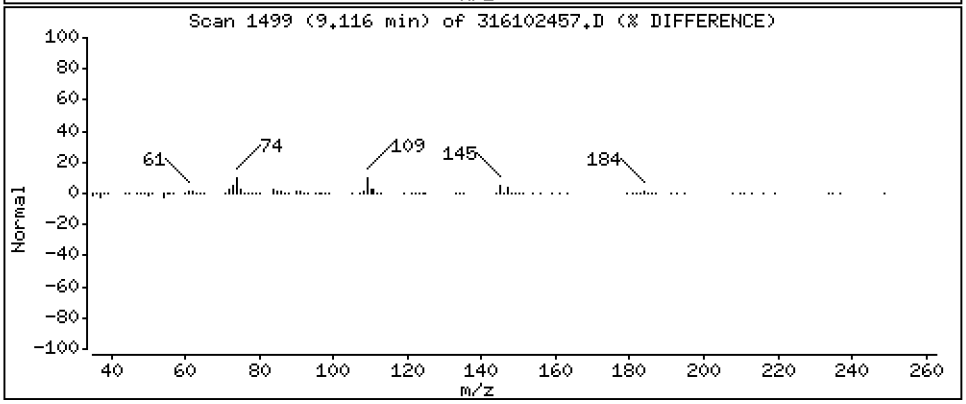












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 118

Date : 25-OCT-2016 00:52

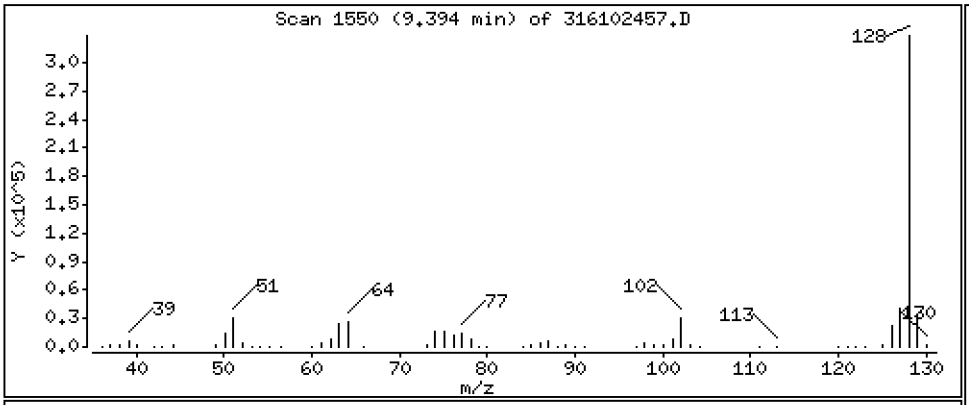
Client ID: Instrument: ms03.i

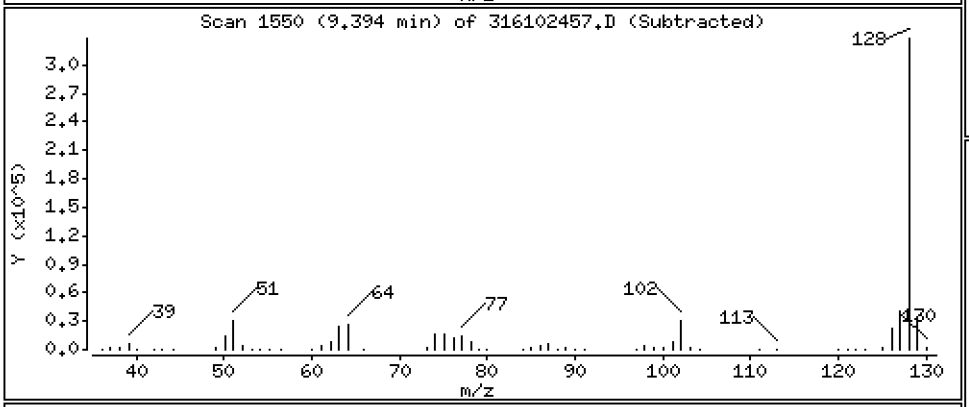
Sample Info: 1237;;1;1;4;;;

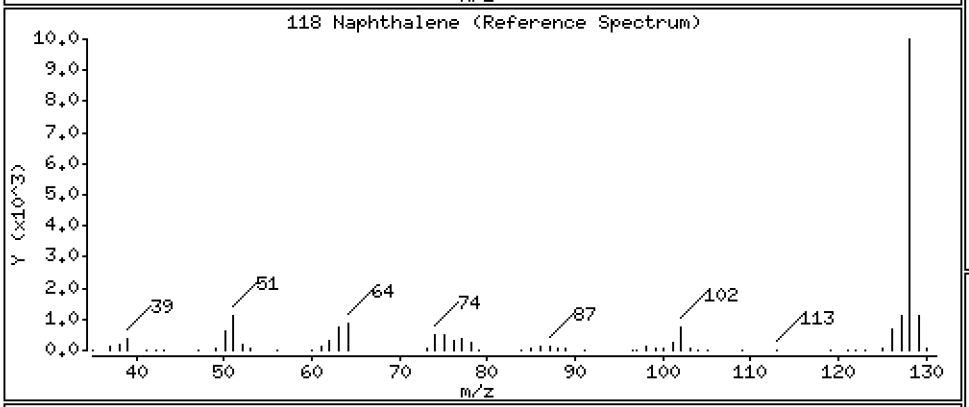
Purge Volume: 5.0 Operator: CJG

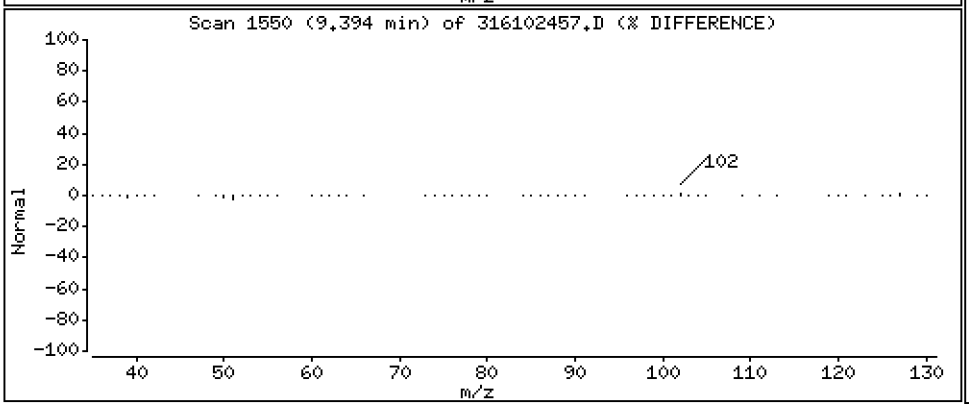
Column phase: DB-VRX Column diameter: 0.25

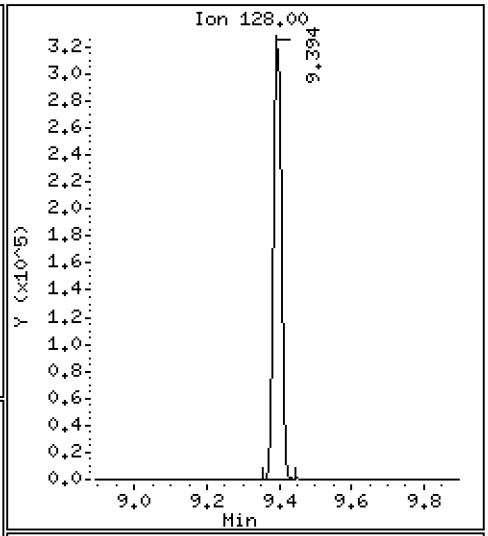
118 Naphthalene Concentration: 50.5177 ug/L

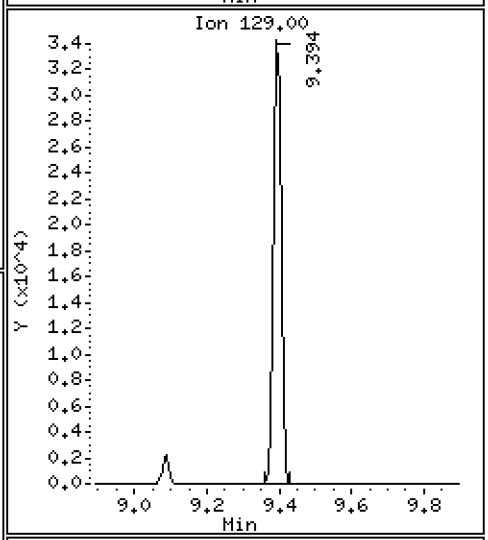


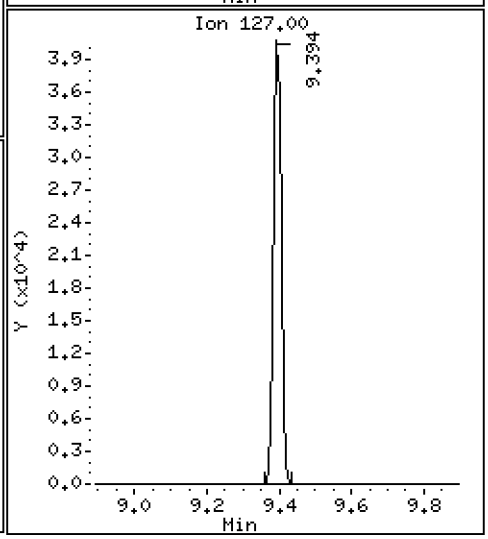












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102457.D Page 119

Date : 25-OCT-2016 00:52

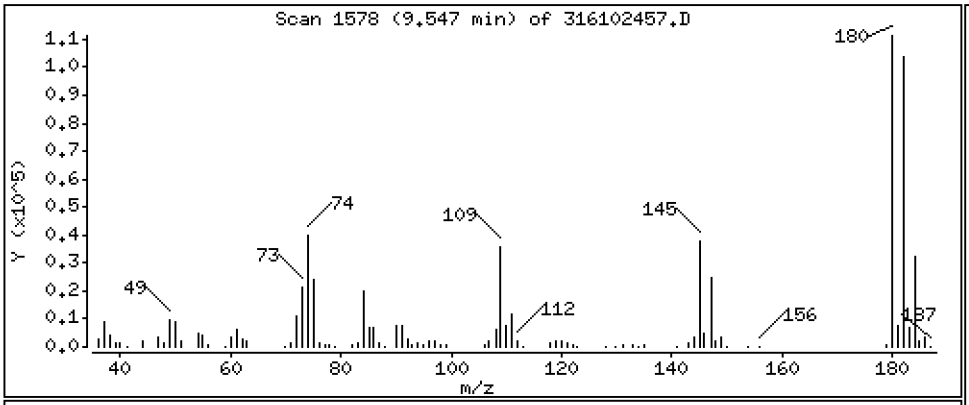
Client ID: Instrument: ms03.i

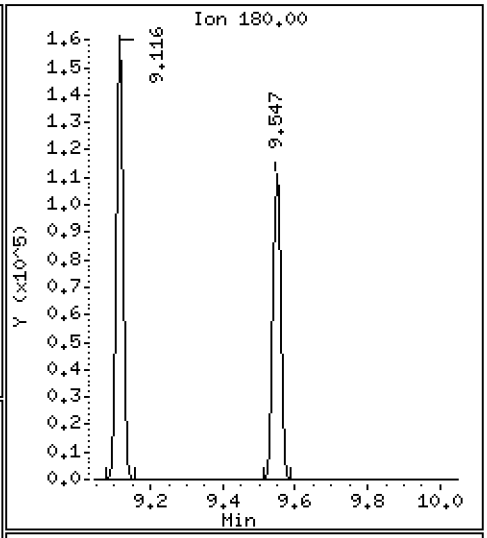
Sample Info: 1237;;1;1;4;;;

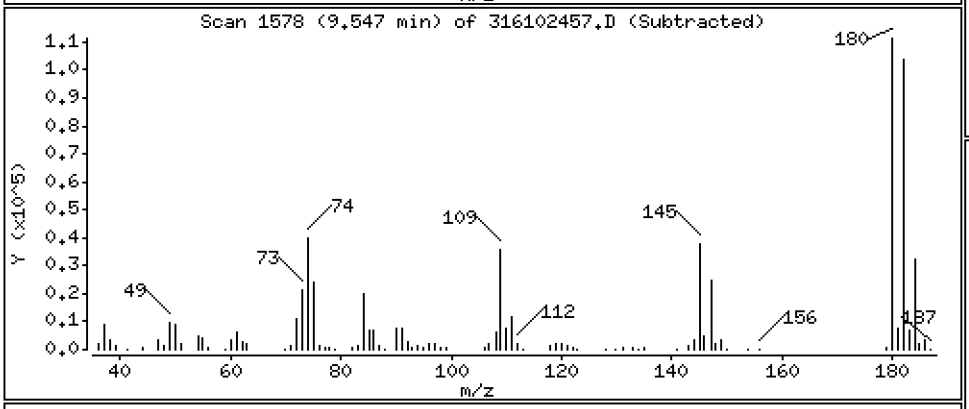
Purge Volume: 5.0 Operator: CJG

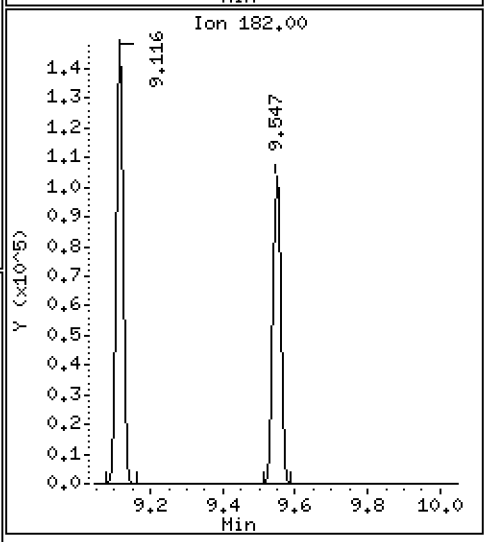
Column phase: DB-VRX Column diameter: 0.25

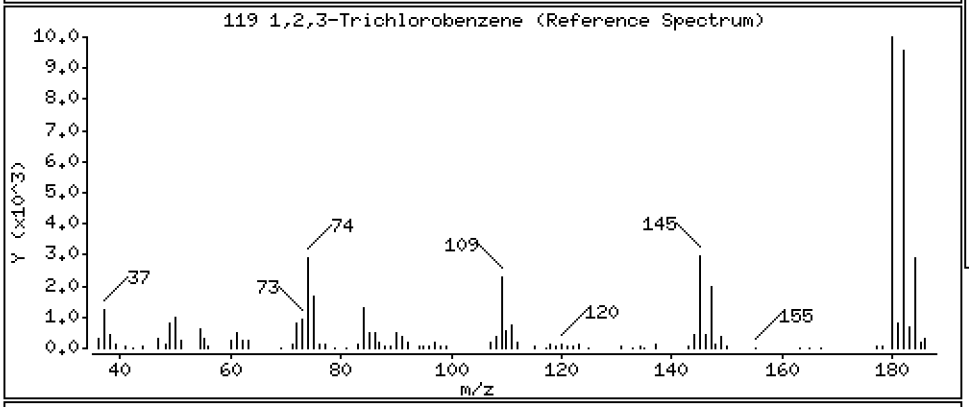
119 1,2,3-Trichlorobenzene Concentration: 51.7359 ug/L

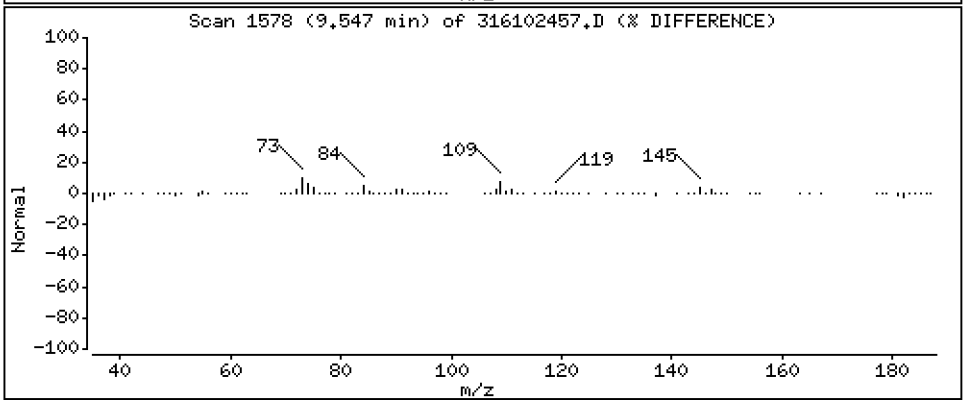








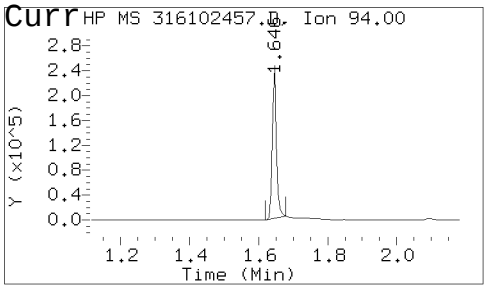


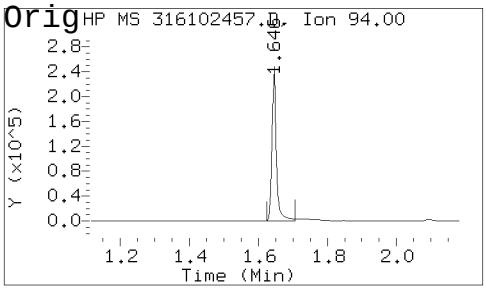


MANUAL INTEGRATION REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1237 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102457.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102457.D
Injection Date: 25-OCT-2016 00:52 Operator: CJG

Bromomethane

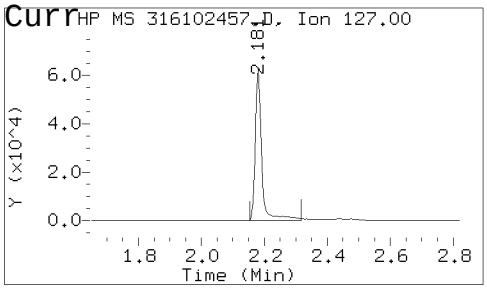
Curr 

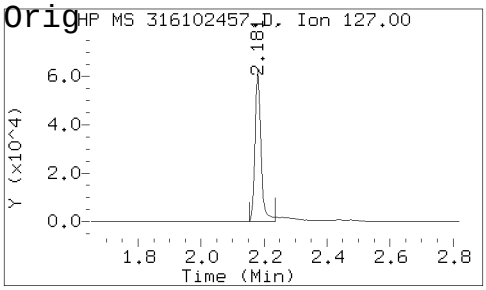
Orig 

Curr. Area: 214551
Orig. Area: 233224

Curr. ON-COL: 46.7273
Orig. ON-COL: 50.0000

Iodomethane

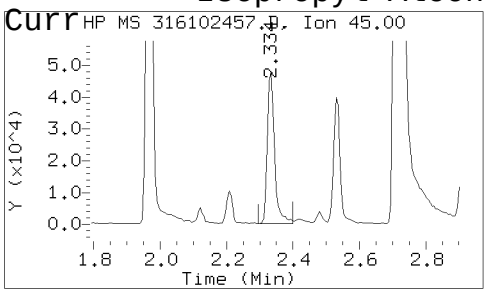
Curr 

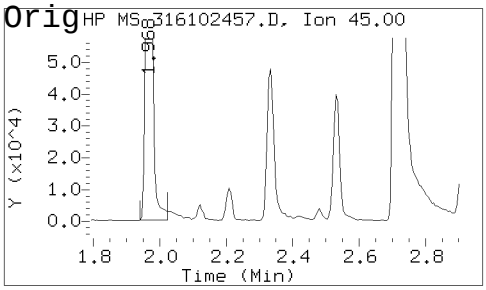
Orig 

Curr. Area: 87895
Orig. Area: 81015

Curr. ON-COL: 44.8691
Orig. ON-COL: 50.0000

Isopropyl Alcohol

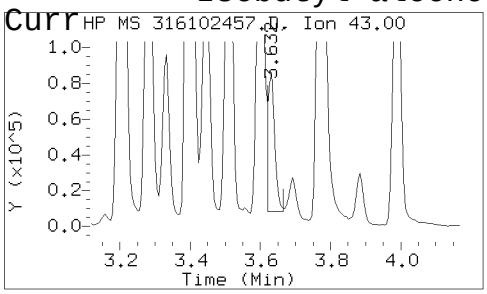
Curr 

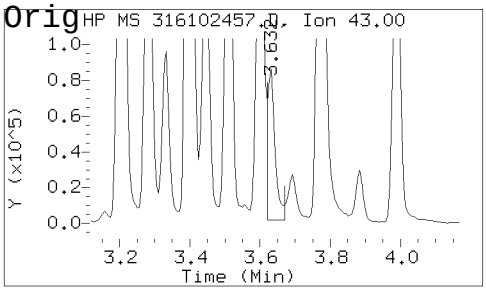
Orig 

Curr. Area: 71076
Orig. Area: 295344

Curr. ON-COL: 262.088
Orig. ON-COL: 250.000

Isobutyl alcohol

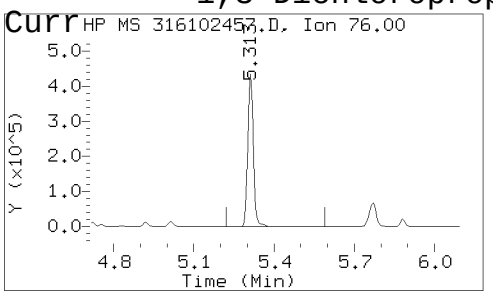
Curr 

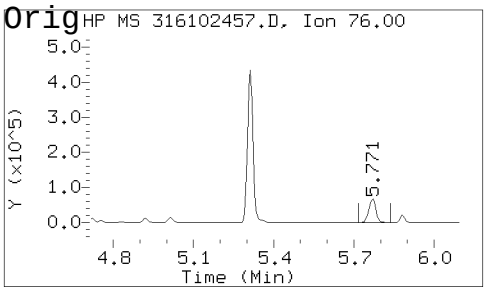
Orig 

Curr. Area: 105297
Orig. Area: 126729

Curr. ON-COL: 554.161
Orig. ON-COL: 500.000

1,3-Dichloropropane

Curr 

Orig 

Curr. Area: 617496
Orig. Area: 126307

Curr. ON-COL: 50.7518
Orig. ON-COL: 50.0000

UNASSIGNED PEAK REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1237 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102457.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102457.D
Injection Date: 25-OCT-2016 00:52 Operator: CJG

Data File: 316102458.D Page 1
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610245
Lab Smp Id: 1238
Inj Date : 25-OCT-2016 01:14
Operator : CJG Inst ID: ms03.i
Smp Info : 1238;;1;1;5;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b0
Meth Date : 25-Oct-2016 10:10 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: ALMDTW7062

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.259	(0.332)	1285315	100.000	100.069	
2 Chloromethane	50	1.389	1.390	(0.367)	1151305	100.000	100.063	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	1323102	100.000	100.254	
4 Bromomethane	94	1.646	1.646	(0.434)	611189	100.000	104.093(M)	H
5 Chloroethane	64	1.722	1.723	(0.454)	805220	100.000	100.170	
6 Pentane	41	1.793	1.794	(0.473)	688898	100.000	99.2612	
7 Trichlorofluoromethane	101	1.799	1.799	(0.475)	1412223	100.000	99.3173	
8 Dichlorofluoromethane	67	1.826	1.826	(0.482)	1754645	100.000	100.065	
9 Ethyl Ether	74	1.968	1.968	(0.519)	595032	100.000	98.4824	
10 1,1-Dichloroethene	61	2.088	2.088	(0.551)	1228154	100.000	99.9438	
11 Freon 113	101	2.104	2.105	(0.555)	655003	100.000	99.4589	
12 Carbon Disulfide	76	2.120	2.121	(0.560)	2294590	100.000	101.392	
13 Iodomethane	127	2.180	2.181	(0.575)	235374	100.000	105.804(M)	
14 Acrolein	56	2.273	2.274	(0.600)	1260046	1000.00	1000.23	
15 Isopropyl Alcohol	45	2.333	2.334	(0.616)	143587	500.000	495.120(M)	IH
16 3-Chloro-1-propene	41	2.344	2.345	(0.619)	1115226	100.000	101.564	
17 Methylene Chloride	84	2.404	2.405	(0.634)	852055	100.000	100.085	
18 Acetone	58	2.426	2.427	(0.640)	310795	500.000	493.364	
19 Methyl acetate	74	2.481	2.481	(0.655)	131421	100.000	98.9751	
20 trans-1,2-Dichloroethene	61	2.486	2.487	(0.656)	1217528	100.000	100.462	
21 Hexane	57	2.519	2.519	(0.665)	1719441	100.000	100.431	

Data File: 316102458.D Page 2
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.530	2.530	(0.667)	2253328	100.000	100.084	
	23 tert.- Butyl Alcohol	59	2.562	2.563	(0.676)	251552	500.000	504.132	
	24 Acetonitrile	41	2.682	2.683	(0.708)	378852	500.000	495.610	
	25 Diisopropyl ether	45	2.721	2.721	(0.718)	3019485	100.000	100.507	
	26 Chloroprene	53	2.797	2.798	(0.738)	1250175	100.000	99.9955	
	27 1,1-Dichloroethane	63	2.813	2.814	(0.742)	1578909	100.000	99.5155	
	28 Acrylonitrile	53	2.841	2.841	(0.750)	1507194	500.000	500.938	
	29 Ethyl tert-butyl ether	59	2.912	2.912	(0.768)	2666771	100.000	100.885	
	30 n-Propanol	41	2.912	2.912	(0.768)	551945	1000.00	999.591(Q)	
	31 Vinyl Acetate	86	2.928	2.929	(0.773)	183691	100.000	100.821(Q)	
	32 cis-1,2-Dichloroethene	61	3.097	3.098	(0.817)	1226049	100.000	99.8989	
	33 2,2-Dichloropropane	77	3.157	3.158	(0.833)	1064710	100.000	100.500	
	34 Bromochloromethane	128	3.206	3.207	(0.846)	364141	100.000	101.645	
	35 Cyclohexane	84	3.212	3.212	(0.847)	1249288	100.000	99.6048	
	36 Chloroform	83	3.234	3.234	(0.853)	1540194	100.000	99.4325	
	37 Ethyl Acetate	43	3.277	3.278	(0.865)	769797	100.000	99.6902	
	38 Methyl acrylate	55	3.294	3.294	(0.869)	742211	100.000	100.020	
	39 Carbon Tetrachloride	117	3.321	3.321	(0.876)	885031	100.000	100.294	
	40 Tetrahydrofuran	42	3.326	3.327	(0.878)	1161705	500.000	495.562	
$	41 Dibromofluoromethane	113	3.337	3.338	(0.881)	674384	100.000	100.032	
	42 1,1,1-Trichloroethane	97	3.359	3.360	(0.886)	1179004	100.000	100.874	
	43 2-Butanone	72	3.397	3.398	(0.896)	494064	500.000	495.926	
	44 1,1-Dichloropropene	75	3.425	3.425	(0.904)	1162417	100.000	99.5864	
	45 1-Chlorobutane	41	3.446	3.447	(0.909)	920244	100.000	99.4689	
	46 Heptane	71	3.512	3.512	(0.927)	554933	100.000	101.365	
	47 Benzene	78	3.566	3.567	(0.941)	3624552	100.000	99.6693	
	48 Propionitrile	54	3.577	3.578	(0.944)	545446	500.000	494.292	
	49 Methacrylonitrile	67	3.583	3.583	(0.945)	340572	100.000	98.9728	
	50 tert-Amyl methyl ether	73	3.599	3.600	(0.950)	2126212	100.000	100.561	
$	51 1,2-Dichloroethane-d4	65	3.637	3.638	(0.960)	842996	100.000	98.4101	
	52 1,2-Dichloroethane	62	3.676	3.676	(0.970)	1081520	100.000	99.9602	
	53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	213389	500.000	497.132	
	54 Isobutyl alcohol	43	3.632	3.632	(0.958)	217197	1000.00	962.747(M)	
*	55 Fluorobenzene	96	3.790	3.791	(1.000)	1065701	30.0000		
	56 Diisobutylene	57	3.796	3.796	(1.001)	2188173	100.000	100.003	
	57 Trichloroethene	95	3.883	3.883	(1.024)	835664	100.000	99.7120	
	58 Methyl cyclohexane	83	3.883	3.883	(0.674)	1359316	100.000	99.5157	
	59 tert-Amyl Ethylether	59	3.987	3.987	(1.052)	1970754	100.000	101.139	
	60 Dibromomethane	93	4.139	4.139	(1.092)	466237	100.000	100.487	
	61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	944849	100.000	100.371	
	62 Bromodichloromethane	83	4.221	4.222	(1.114)	1038921	100.000	100.661	
	63 Methyl methacrylate	41	4.292	4.293	(1.132)	732609	100.000	101.373	
	64 1,4-Dioxane	88	4.336	4.336	(1.144)	82482	2500.00	2489.20	
	65 2-Chloroethylvinyl ether	63	4.549	4.549	(1.200)	453946	100.000	101.327	
	66 cis-1,3-Dichloropropene	75	4.603	4.604	(0.799)	1400358	100.000	100.966	
	67 Octane	85	4.609	4.609	(0.800)	378288	100.000	101.709	
$	68 Toluene-d8	98	4.723	4.724	(0.820)	2897024	100.000	99.9538	
	69 Toluene	92	4.756	4.756	(0.826)	2077837	100.000	99.3807	
	70 Chloroacetonitrile	48	4.832	4.833	(0.839)	102739	500.000	498.761	
	71 2-Nitropropane	41	4.909	4.909	(0.852)	894738	500.000	498.743	
	72 1,1-Dichloro-2-Propanone	63	4.920	4.920	(0.854)	79599	500.000	497.614	
	73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.986	(0.865)	4010355	500.000	496.247	
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	546355	100.000	98.5816	
	75 trans-1,3-Dichloropropene	75	5.012	5.013	(0.870)	1219667	100.000	100.837	

Data File: 316102458.D Page 3
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.094	5.095	(0.884)	1118231	100.000	100.367	
	77 1,1,2-Trichloroethane	83	5.121	5.122	(0.889)	599100	100.000	99.3617	
	78 Chlorodibromomethane	129	5.247	5.247	(0.911)	658585	100.000	100.956	
	79 1,3-Dichloropropane	76	5.312	5.313	(0.922)	1296618	100.000	99.3658(M)	IH
	80 1,2-Dibromoethane	107	5.422	5.422	(0.941)	638011	100.000	99.9865	
	81 2-Hexanone	43	5.542	5.542	(0.962)	2638187	500.000	498.469	
	82 1-Chlorohexane	91	5.738	5.739	(0.996)	1148028	100.000	101.688	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	463543	30.0000		
	84 Chlorobenzene	112	5.776	5.777	(1.003)	2085403	100.000	99.5856	
	85 Ethylbenzene	106	5.782	5.782	(1.004)	1160517	100.000	99.7172	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.815	(1.009)	633015	100.000	100.305	
	87 mp-Xylene	106	5.880	5.880	(1.021)	2820349	200.000	199.568	
	88 o-Xylene	106	6.196	6.197	(1.076)	1337713	100.000	100.756	
	89 Styrene	104	6.235	6.235	(0.829)	2229709	100.000	100.659	
	90 Bromoform	173	6.262	6.262	(0.832)	304730	100.000	101.244	
	91 Isopropylbenzene	105	6.426	6.426	(0.854)	3390813	100.000	100.368	
$	92 4-Bromofluorobenzene	174	6.649	6.650	(0.884)	622168	100.000	101.236	
	93 Bromobenzene	156	6.731	6.732	(0.895)	697559	100.000	100.220	
	94 n-Propylbenzene	120	6.737	6.737	(0.896)	879265	100.000	100.283	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.792	(0.903)	801505	100.000	99.3529	
	96 o-Chlorotoluene	91	6.868	6.868	(0.913)	2656626	100.000	100.384	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.915)	2609136	100.000	100.491	
	98 1,2,3-Trichloropropane	110	6.906	6.906	(0.918)	232074	100.000	99.0532	
	99 trans-1,4-Dichloro-2-butene	53	6.933	6.933	(0.922)	225836	100.000	100.833(Q)	
M	100 1,2-Dichloroethene, Total	61				2443577	200.000	200.361	
	101 p-Chlorotoluene	91	6.993	6.994	(0.930)	2443215	100.000	100.674	
	102 tert-Butylbenzene	134	7.140	7.141	(0.949)	568338	100.000	100.552	
	103 Pentachloroethane	117	7.162	7.163	(0.952)	497140	100.000	101.119	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.956)	2603624	100.000	100.665	
	105 sec-Butylbenzene	105	7.277	7.277	(0.967)	3156254	100.000	100.901	
	106 p-Isopropyltoluene	134	7.391	7.392	(0.983)	641449	100.000	101.027	
	107 1,3-Dichlorobenzene	146	7.462	7.463	(0.992)	1242422	100.000	100.742	
*	108 1,4-Dichlorobenzene-d4	152	7.522	7.523	(1.000)	297172	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	7.533	7.534	(1.001)	1262196	100.000	100.428	
	110 Benzyl Chloride	126	7.735	7.736	(1.028)	193855	100.000	102.375(Q)	
	111 n-Butylbenzene	134	7.735	7.736	(1.028)	550620	100.000	101.487	
	112 Hexachloroethane	117	7.850	7.850	(1.044)	397551	100.000	102.592	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.047)	1116181	100.000	100.443	
	114 1,2-Dibromo-3-chloropropane	75	8.543	8.542	(1.136)	99214	100.000	100.188	
	115 Nitrobenzene	77	9.028	9.029	(1.200)	61429	1000.00	965.255	
	116 Hexachlorobutadiene	225	9.088	9.089	(1.208)	208989	100.000	101.121	
	117 1,2,4-Trichlorobenzene	180	9.116	9.116	(1.212)	498925	100.000	101.097	
	118 Naphthalene	128	9.394	9.394	(1.249)	995682	100.000	101.287	
	119 1,2,3-Trichlorobenzene	180	9.547	9.547	(1.269)	320758	100.000	99.3515	
M	120 1,3-Dichloropropene, Total	75				2620025	200.000	201.803	
M	121 Total Xylenes	106				4158062	300.000	300.324	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 316102458.D Page 4
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 25-OCT-2016
Lab File ID: 316102458.D Calibration Time: 00:52
Lab Smp Id: 1238
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: CJG
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	1065701	5.19
83 Chlorobenzene-d5	432864	216432	865728	463543	7.09
108 1,4-Dichlorobenze	273837	136919	547674	297172	8.52

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102458.D Page 5
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1238
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	100.069	
74-87-3	Chloromethane	100.063	
75-01-4	Vinyl Chloride	100.254	
74-83-9	Bromomethane	104.093	
75-00-3	Chloroethane	100.170	
109-66-0	Pentane	99.2612	
75-69-4	Trichlorofluoromethane	99.3173	
75-43-4	Dichlorofluoromethane	100.065	
60-29-7	Ethyl Ether	98.4824	
75-35-4	1,1-Dichloroethene	99.9438	
76-13-1	Freon 113	99.4589	
75-15-0	Carbon Disulfide	101.392	
74-88-4	Iodomethane	105.804	
107-02-8	Acrolein	1000.23	
67-63-0	Isopropyl Alcohol	495.120	
107-05-1	3-Chloro-1-propene	101.564	
75-09-2	Methylene Chloride	100.085	
67-64-1	Acetone	493.364	
79-20-9	Methyl acetate	98.9751	
156-60-5	trans-1,2-Dichloroethene	100.462	
110-54-3	Hexane	100.431	
1634-04-4	Methyl t-Butyl Ether	100.084	
75-65-0	tert.- Butyl Alcohol	504.132	
75-05-8	Acetonitrile	495.610	
108-20-3	Diisopropyl ether	100.507	
126-99-8	Chloroprene	99.9955	
75-34-3	1,1-Dichloroethane	99.5155	
107-13-1	Acrylonitrile	500.938	
637-92-3	Ethyl tert-butyl ether	100.885	
71-23-8	n-Propanol	999.591	
108-05-4	Vinyl Acetate	100.821	
156-59-2	cis-1,2-Dichloroethene	99.8989	
594-20-7	2,2-Dichloropropane	100.500	
74-97-5	Bromochloromethane	101.645	
110-82-7	Cyclohexane	99.6048	
67-66-3	Chloroform	99.4325	
141-78-6	Ethyl Acetate	99.6902	
96-33-3	Methyl acrylate	100.020	
56-23-5	Carbon Tetrachloride	100.294	
109-99-9	Tetrahydrofuran	495.562	
71-55-6	1,1,1-Trichloroethane	100.874	
78-93-3	2-Butanone	495.926	

Data File: 316102458.D Page 6
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1238
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
563-58-6	1,1-Dichloropropene	99.5864	
109-69-3	1-Chlorobutane	99.4689	
142-82-5	Heptane	101.365	
71-43-2	Benzene	99.6693	
107-12-0	Propionitrile	494.292	
126-98-7	Methacrylonitrile	98.9728	
994-05-8	tert-Amyl methyl ether	100.561	
107-06-2	1,2-Dichloroethane	99.9602	
75-85-4	tert-Amyl Alcohol	497.132	
78-83-1	Isobutyl alcohol	962.747	
107-39-1	Diisobutylene	100.003	
79-01-6	Trichloroethene	99.7120	
108-87-2	Methyl cyclohexane	99.5157	
919-94-8	tert-Amyl Ethylether	101.139	
74-95-3	Dibromomethane	100.487	
78-87-5	1,2-Dichloropropane	100.371	
75-27-4	Bromodichloromethane	100.661	
80-62-6	Methyl methacrylate	101.373	
123-91-1	1,4-Dioxane	2489.20	
110-75-8	2-Chloroethylvinyl ether	101.327	
10061-01-5	cis-1,3-Dichloropropene	100.966	
111-65-9	Octane	101.709	
108-88-3	Toluene	99.3807	
107-14-2	Chloroacetonitrile	498.761	
79-46-9	2-Nitropropane	498.743	
513-88-2	1,1-Dichloro-2-Propanone	497.614	
108-10-1	4-Methyl-2-Pentanone(MIBK)	496.247	
127-18-4	Tetrachloroethene	98.5816	
10061-02-6	trans-1,3-Dichloropropene	100.837	
97-63-2	Ethyl Methacrylate	100.367	
79-00-5	1,1,2-Trichloroethane	99.3617	
124-48-1	Chlorodibromomethane	100.956	
142-28-9	1,3-Dichloropropane	99.3658	
106-93-4	1,2-Dibromoethane	99.9865	
591-78-6	2-Hexanone	498.469	
544-10-5	1-Chlorohexane	101.688	
108-90-7	Chlorobenzene	99.5856	
100-41-4	Ethylbenzene	99.7172	
630-20-6	1,1,1,2-Tetrachloroethane	100.305	
108383/106423	mp-Xylene	199.568	
95-47-6	o-Xylene	100.756	
100-42-5	Styrene	100.659	

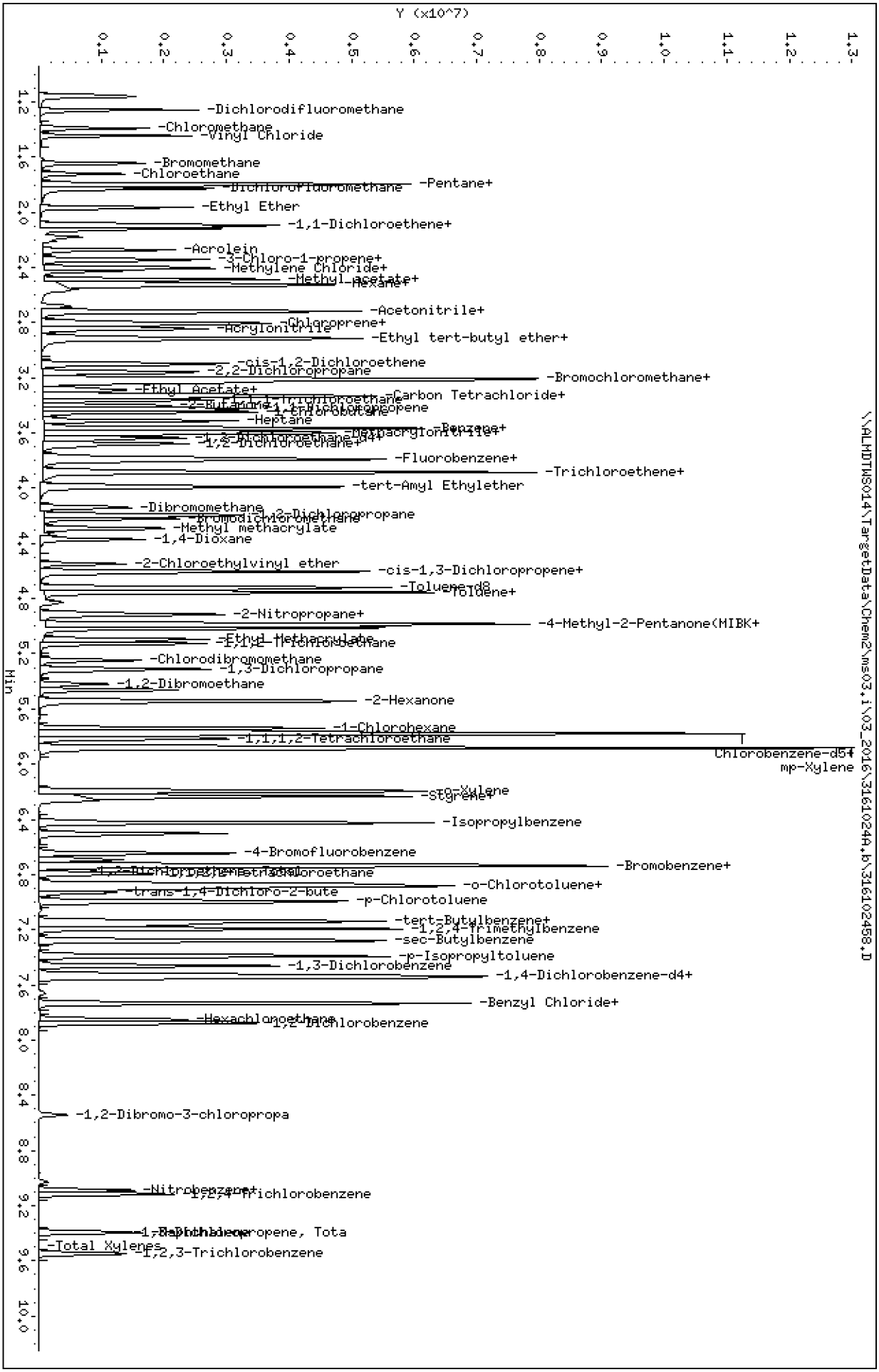
Data File: 316102458.D Page 7
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1238
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-25-2	Bromoform	101.244	
98-82-8	Isopropylbenzene	100.368	
108-86-1	Bromobenzene	100.220	
103-65-1	n-Propylbenzene	100.283	
79-34-5	1,1,2,2-Tetrachloroethane	99.3529	
95-49-8	o-Chlorotoluene	100.384	
108-67-8	1,3,5-Trimethylbenzene	100.491	
96-18-4	1,2,3-Trichloropropane	99.0532	
110-57-6	trans-1,4-Dichloro-2-butene	100.833	
540-59-0	1,2-Dichloroethene, Total	200.361	
106-43-4	p-Chlorotoluene	100.674	
98-06-6	tert-Butylbenzene	100.552	
76-01-7	Pentachloroethane	101.119	
95-63-6	1,2,4-Trimethylbenzene	100.665	
135-98-8	sec-Butylbenzene	100.901	
99-87-6	p-Isopropyltoluene	101.027	
541-73-1	1,3-Dichlorobenzene	100.742	
106-46-7	1,4-Dichlorobenzene	100.428	
100-44-7	Benzyl Chloride	102.375	
104-51-8	n-Butylbenzene	101.487	
67-72-1	Hexachloroethane	102.592	
95-50-1	1,2-Dichlorobenzene	100.443	
96-12-8	1,2-Dibromo-3-chloropropane	100.188	
98-95-3	Nitrobenzene	965.255	
87-68-3	Hexachlorobutadiene	101.121	
120-82-1	1,2,4-Trichlorobenzene	101.097	
91-20-3	Naphthalene	101.287	
87-61-6	1,2,3-Trichlorobenzene	99.3515	
542-75-6	1,3-Dichloropropene, Total	201.803	
1330-20-7	Total Xylenes	300.324	
1868-53-7	Dibromofluoromethane	100.032	
17060-07-0	1,2-Dichloroethane-d4	98.4101	
2037-26-5	Toluene-d8	99.9538	
460-00-4	4-Bromofluorobenzene	101.236	


Y (x10^7)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
Min
1.2
1.6
2.0
2.4
2.8
3.2
3.6
4.0
4.4
4.8
5.2
5.6
6.0
6.4
6.8
7.2
7.6
8.0
8.4
8.8
9.2
9.6
10.0
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Acrylonitrile
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Carbon Tetrachloride+
-Heptane
-Benzene+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK+
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-o-Chlorotoluene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-Nitrobenzene+
-1,2,4-Trichlorobenzene
-Total Xylenes
-1,2,3-Trichlorobenzene
Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D
Date : 25-OCT-2016 01:14
Client ID:
Sample Info: 1238;;1;1;5;;;
Purge Volume: 5.0
Column phase: DB-VRX
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S8.D
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
Page 8

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 9

Date : 25-OCT-2016 01:14

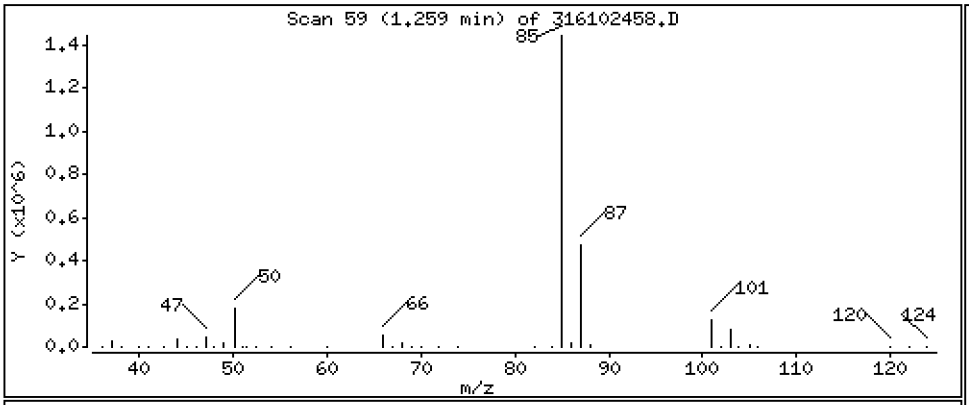
Client ID: Instrument: ms03.i

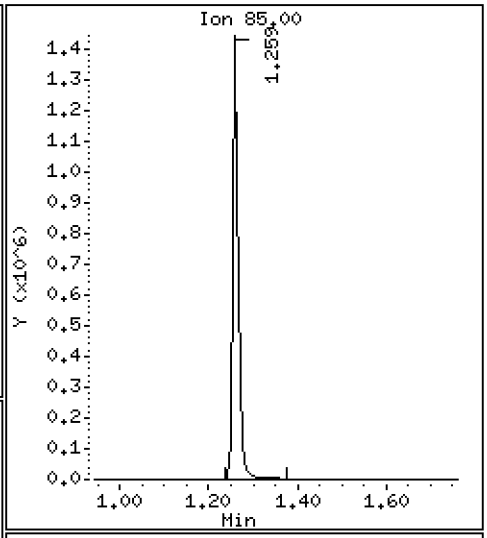
Sample Info: 1238;;1;1;5;;;

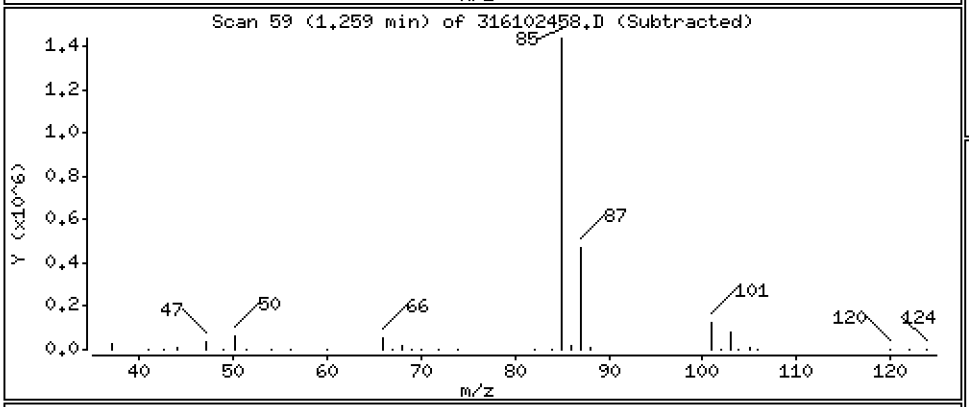
Purge Volume: 5.0 Operator: CJG

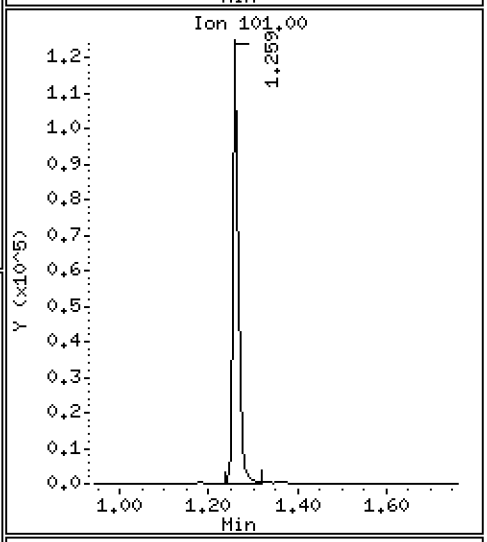
Column phase: DB-VRX Column diameter: 0.25

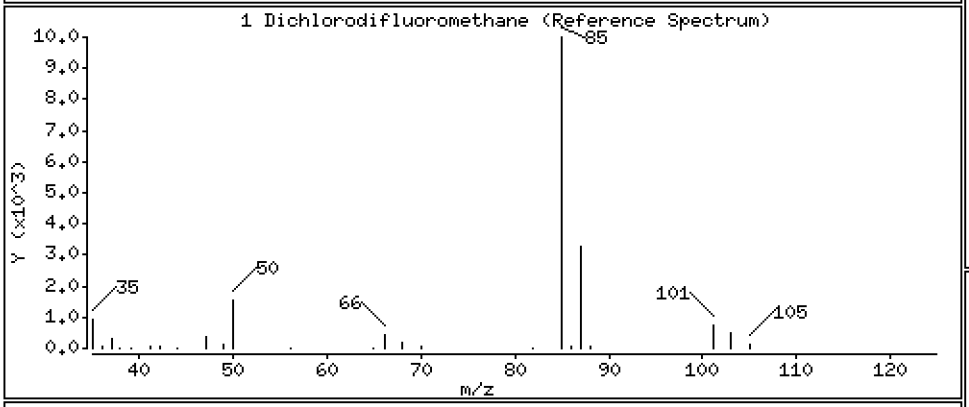
1 Dichlorodifluoromethane Concentration: 100.069 ug/L

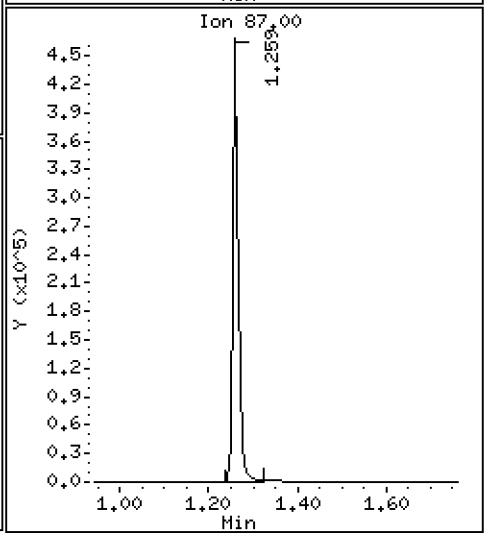


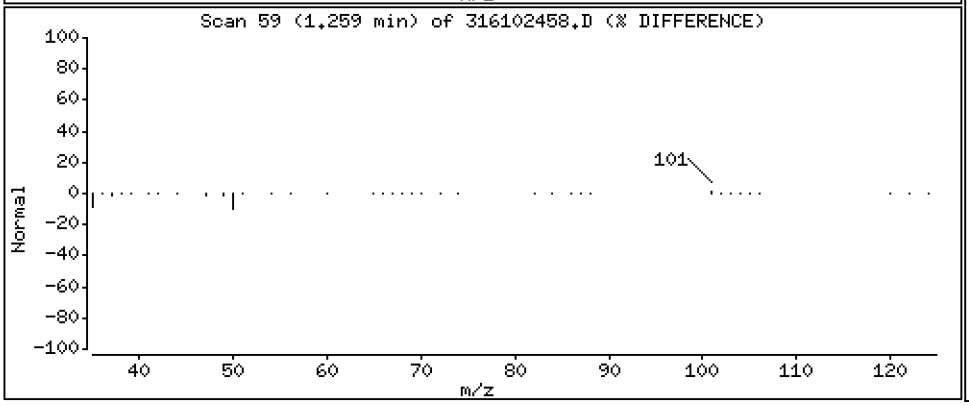












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 10

Date : 25-OCT-2016 01:14

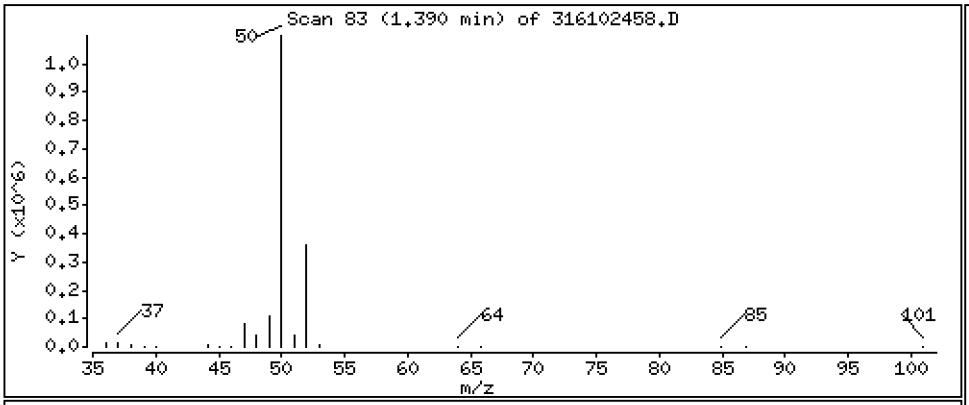
Client ID: Instrument: ms03.i

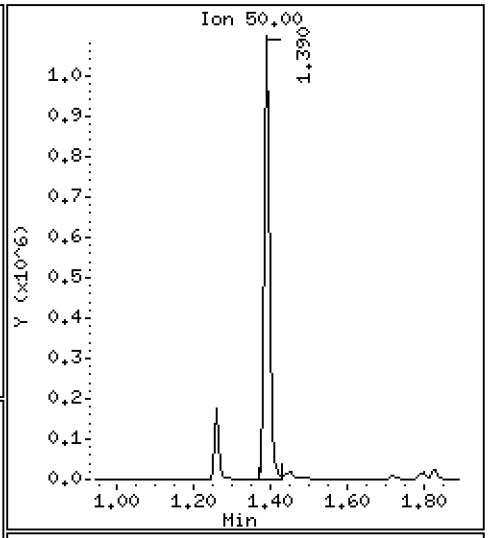
Sample Info: 1238;;1;1;5;;;

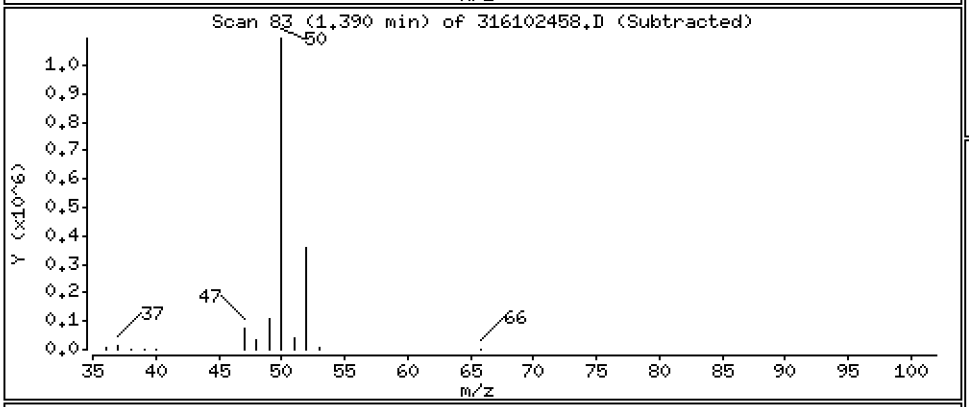
Purge Volume: 5.0 Operator: CJG

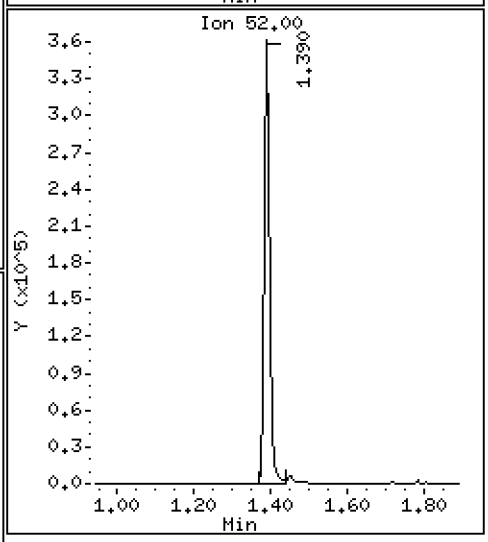
Column phase: DB-VRX Column diameter: 0.25

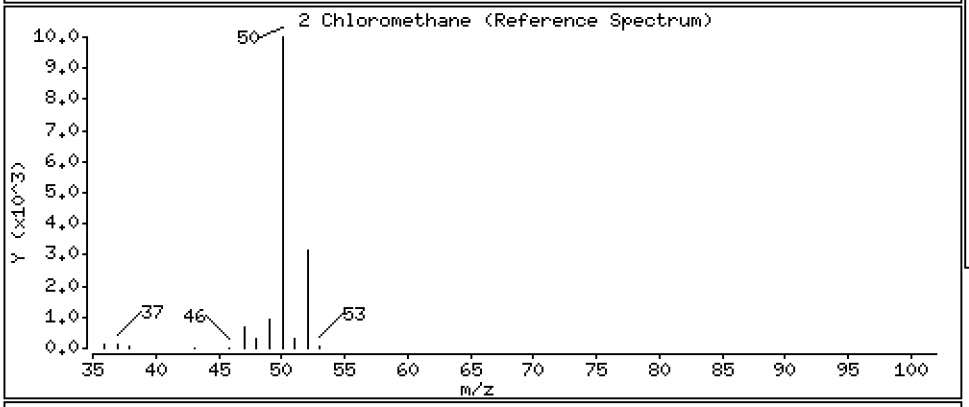
2 Chloromethane Concentration: 100.063 ug/L

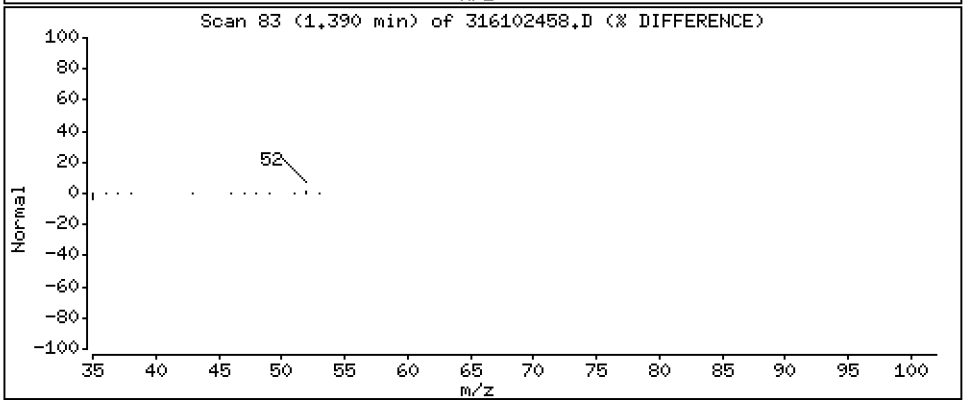












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 11

Date : 25-OCT-2016 01:14

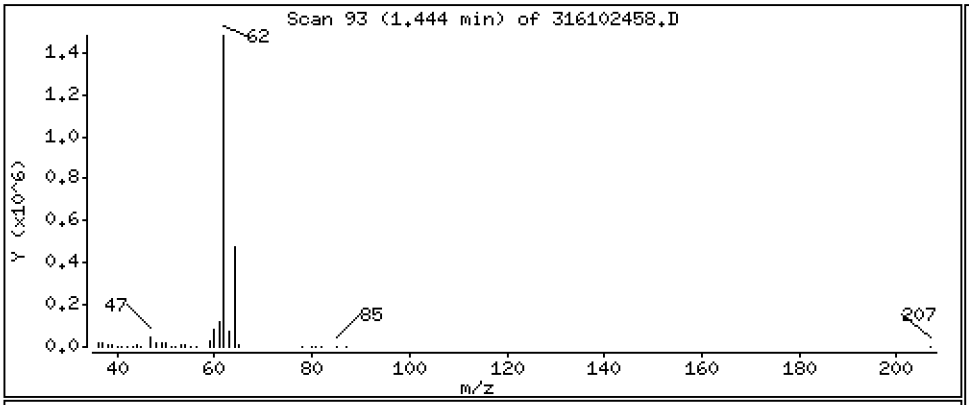
Client ID: Instrument: ms03.i

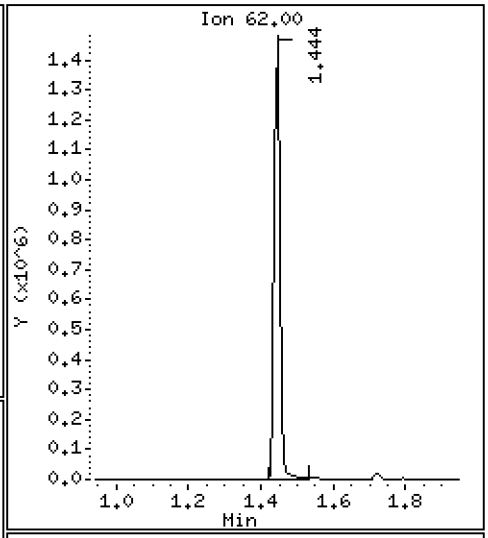
Sample Info: 1238;;1;1;5;;;

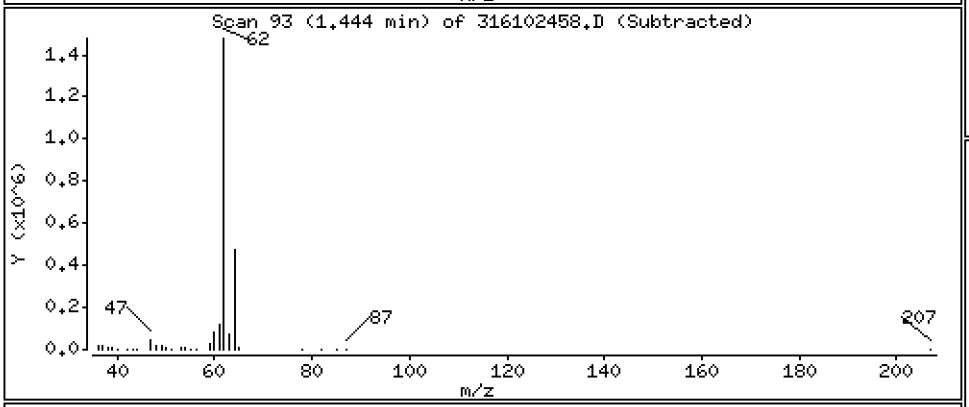
Purge Volume: 5.0 Operator: CJG

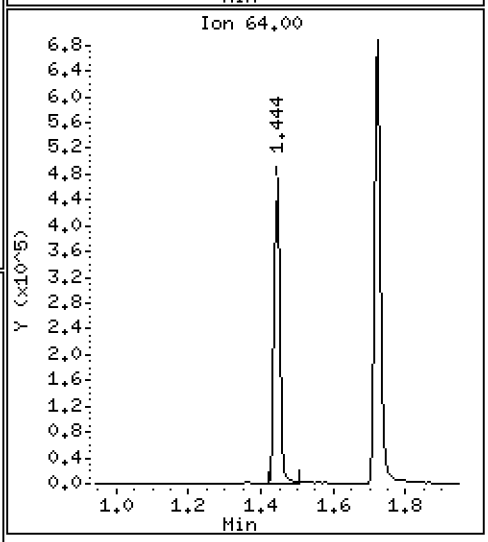
Column phase: DB-VRX Column diameter: 0.25

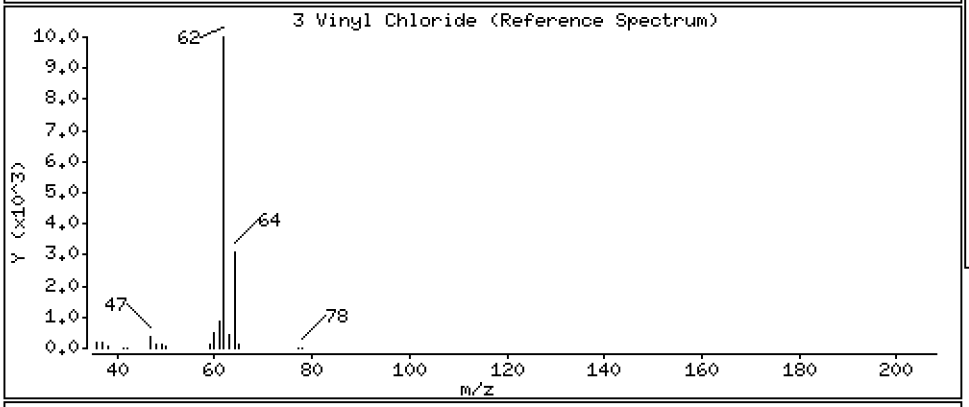
3 Vinyl Chloride Concentration: 100.254 ug/L

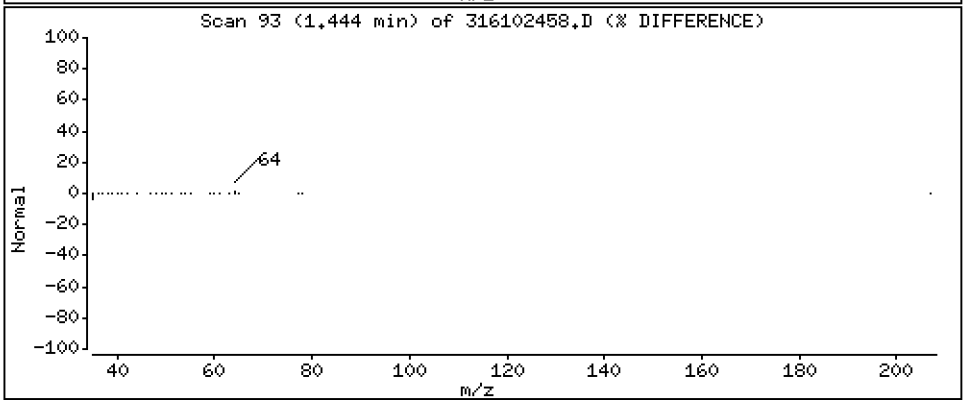












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 12

Date : 25-OCT-2016 01:14

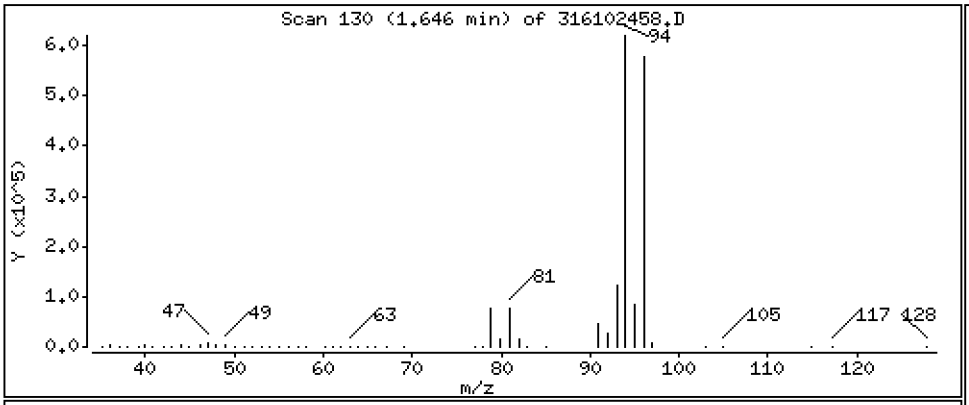
Client ID: Instrument: ms03.i

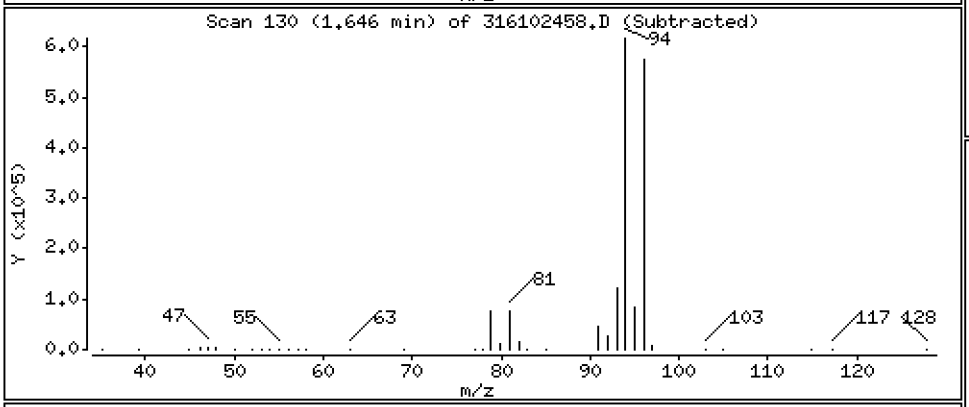
Sample Info: 1238;;1;1;5;;;

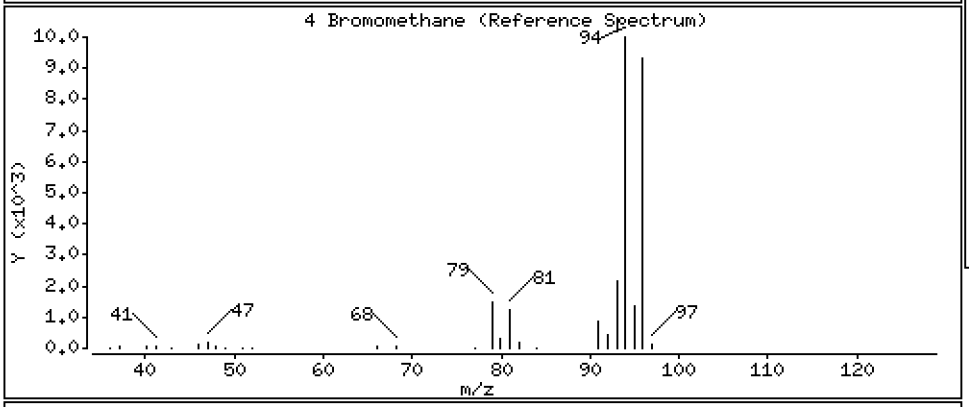
Purge Volume: 5.0 Operator: CJG

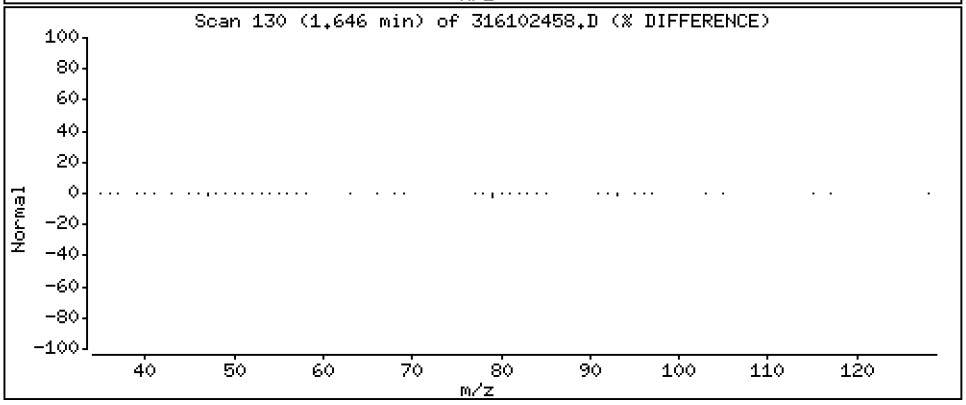
Column phase: DB-VRX Column diameter: 0.25

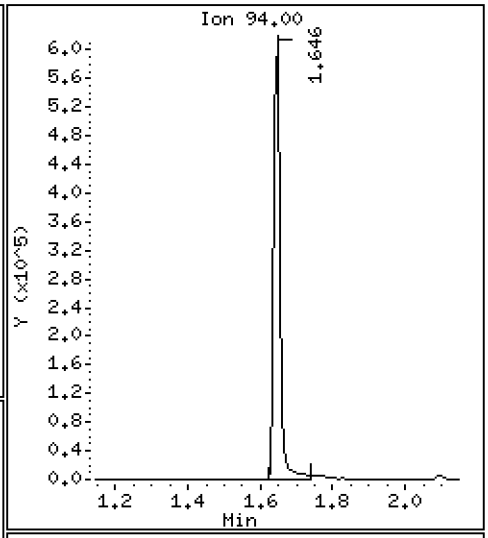
4 Bromomethane Concentration: 104.093 ug/L

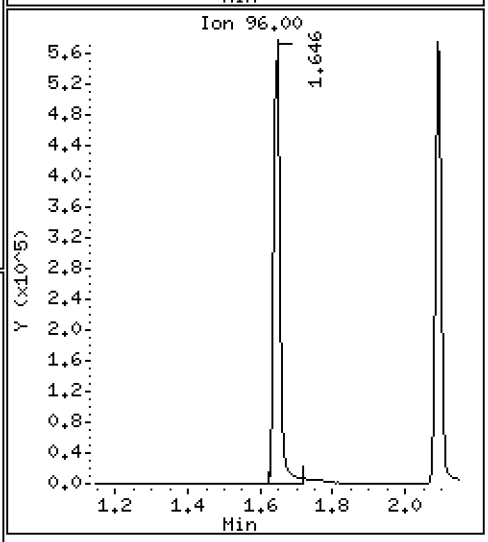












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 13

Date : 25-OCT-2016 01:14

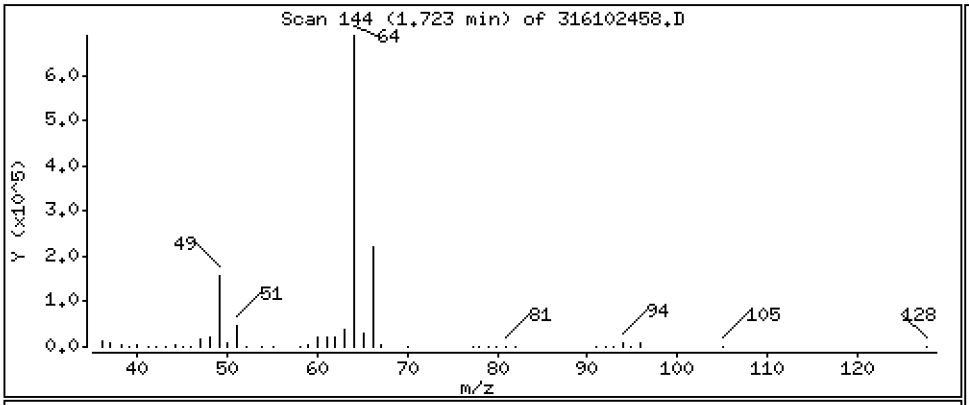
Client ID: Instrument: ms03.i

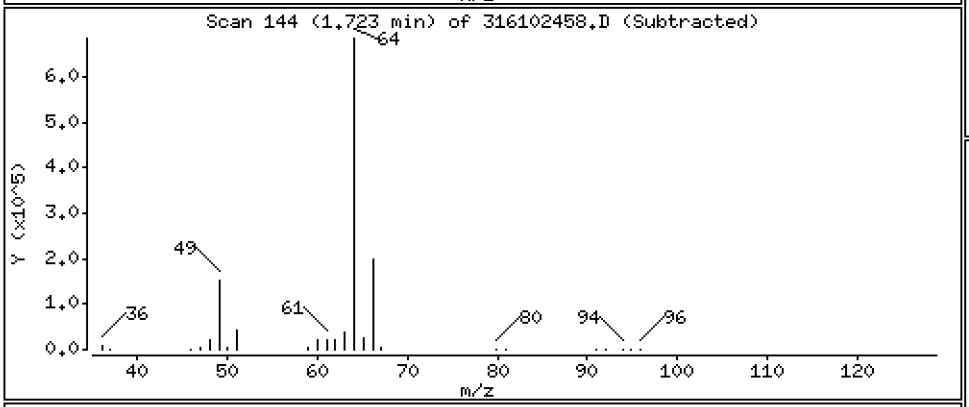
Sample Info: 1238;;1;1;5;;;

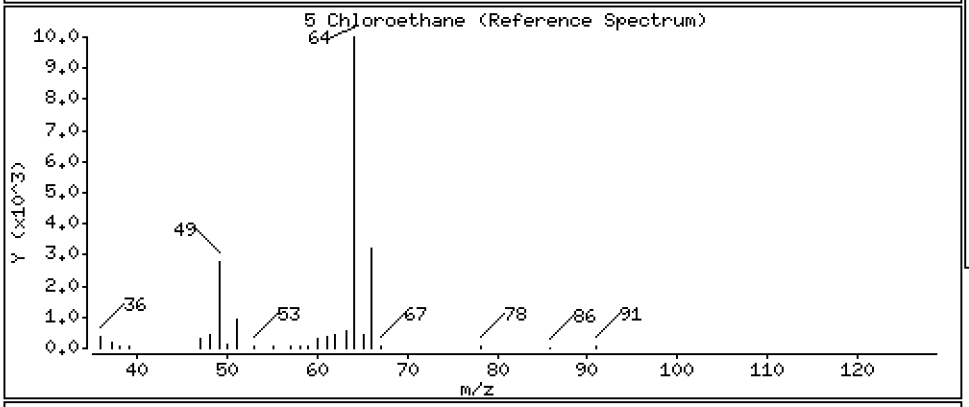
Purge Volume: 5.0 Operator: CJG

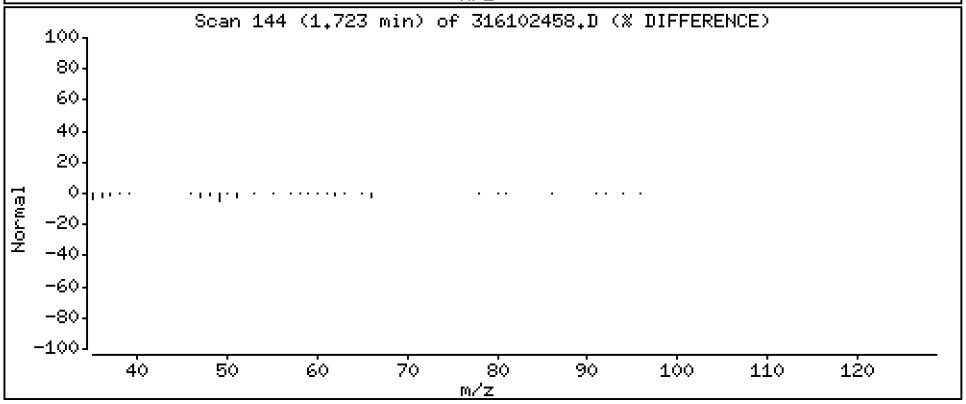
Column phase: DB-VRX Column diameter: 0.25

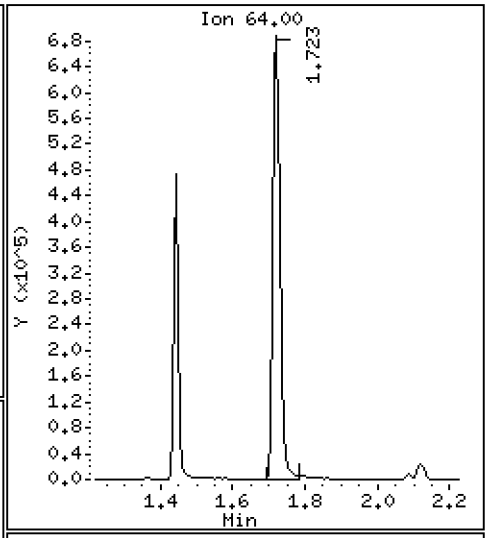
5 Chloroethane Concentration: 100.170 ug/L

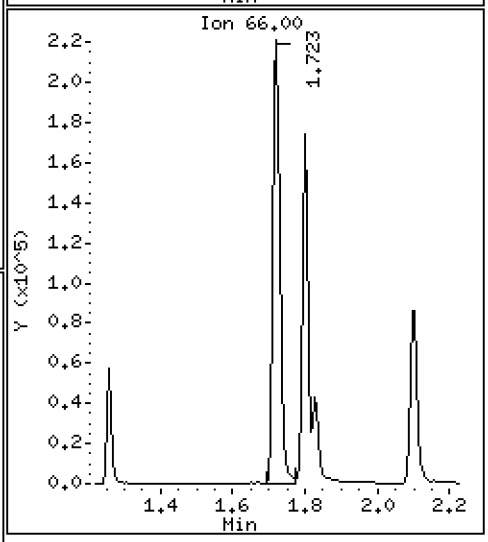












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 14

Date : 25-OCT-2016 01:14

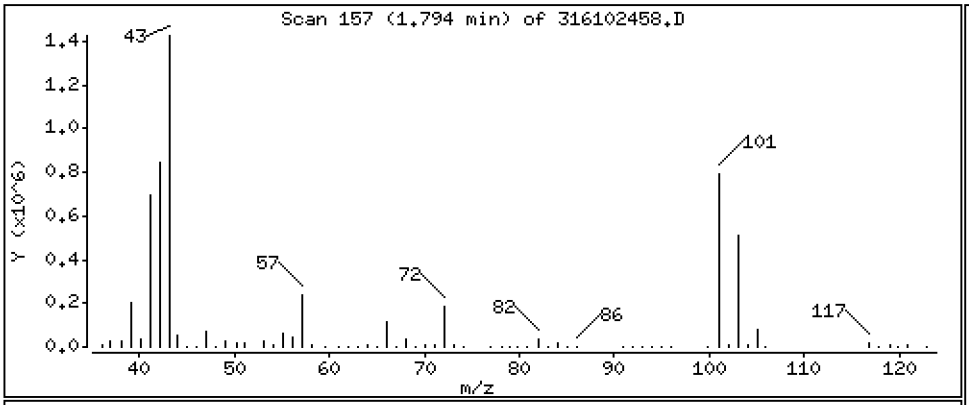
Client ID: Instrument: ms03.i

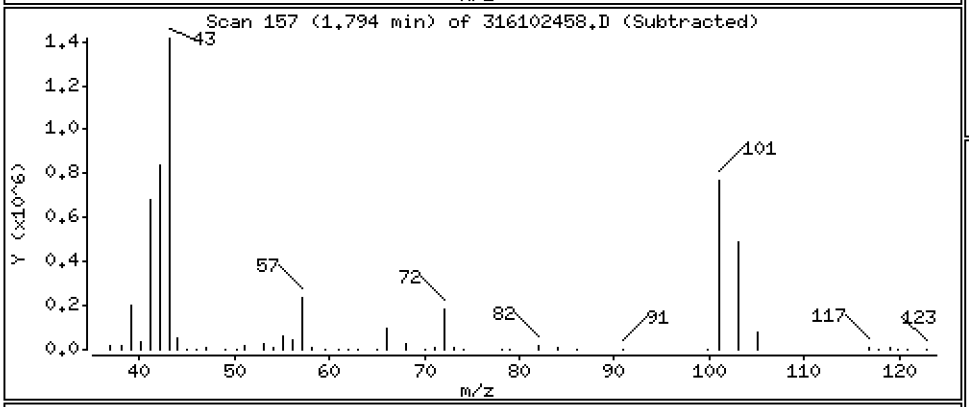
Sample Info: 1238;;1;1;5;;;

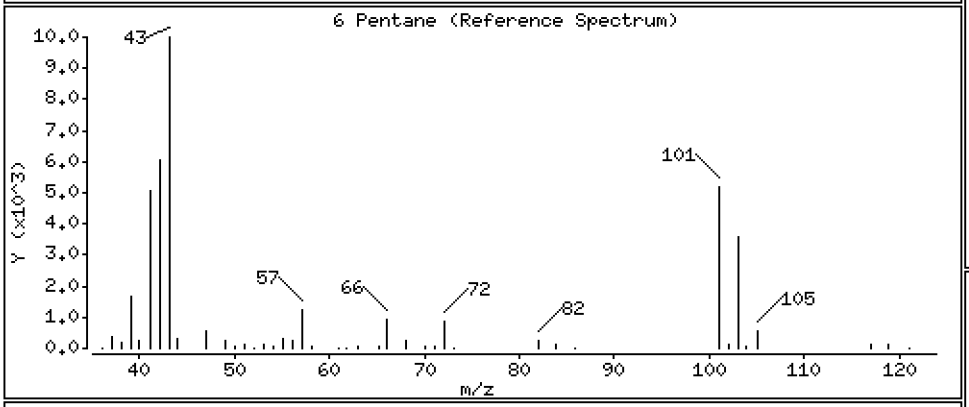
Purge Volume: 5.0 Operator: CJG

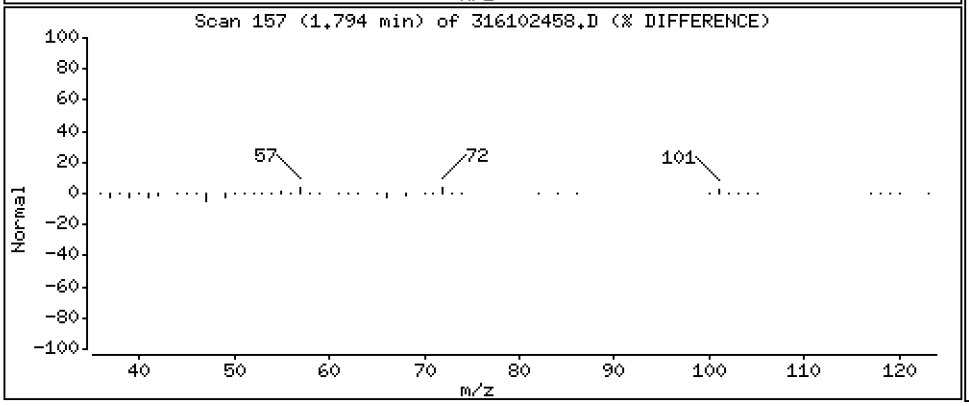
Column phase: DB-VRX Column diameter: 0.25

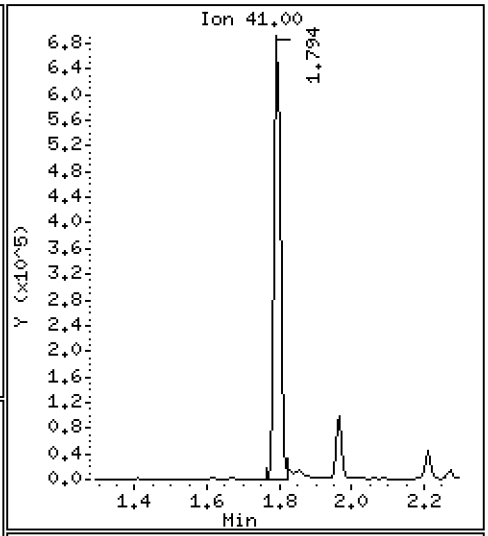
6 Pentane Concentration: 99.2612 ug/L

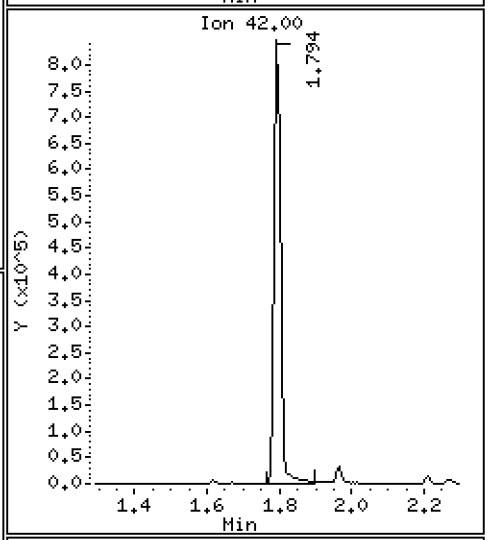


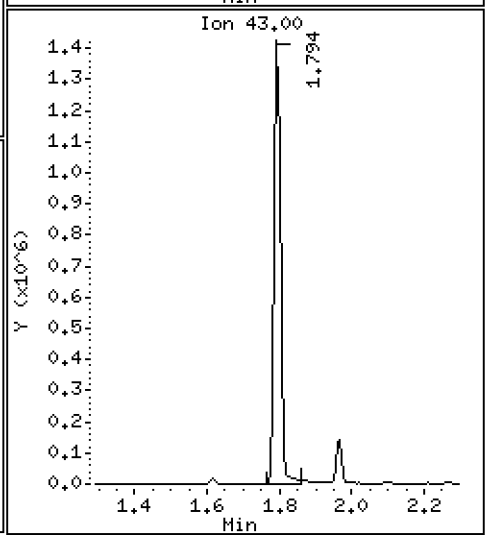












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 15

Date : 25-OCT-2016 01:14

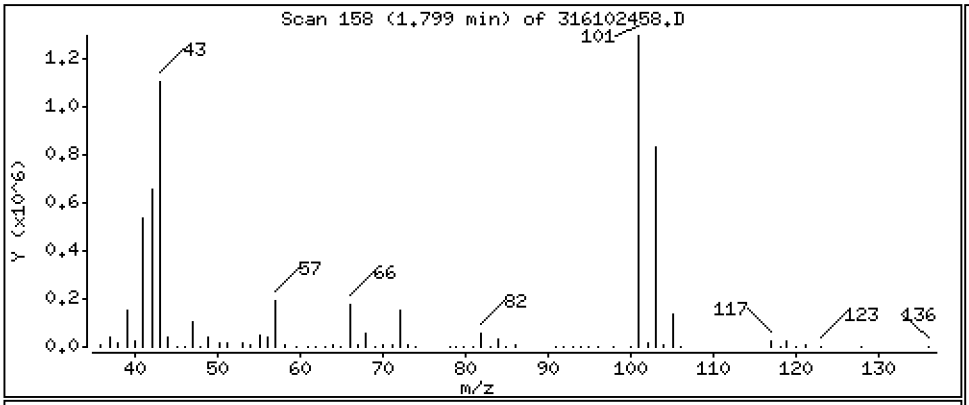
Client ID: Instrument: ms03.i

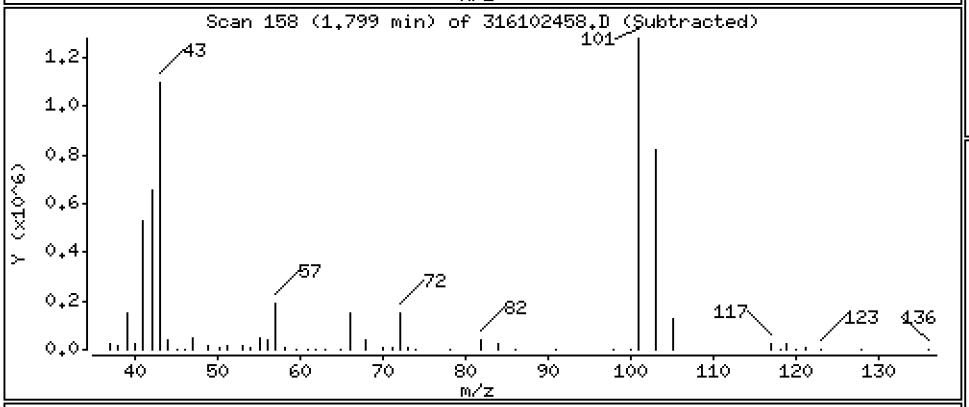
Sample Info: 1238;;1;1;5;;;

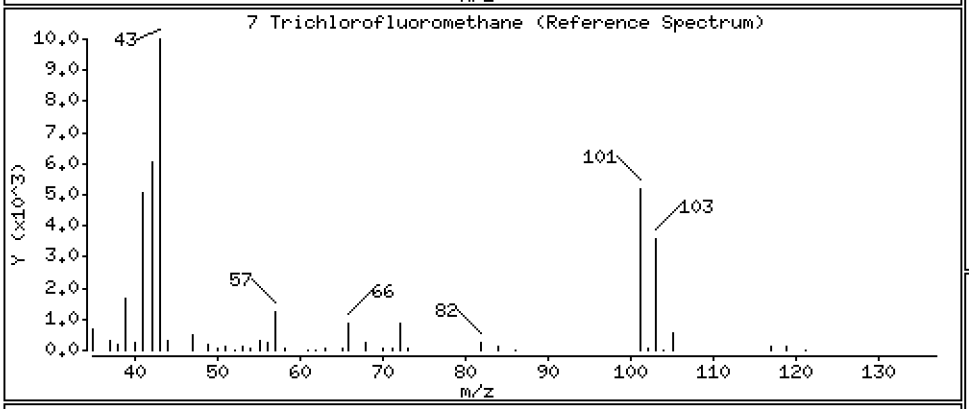
Purge Volume: 5.0 Operator: CJG

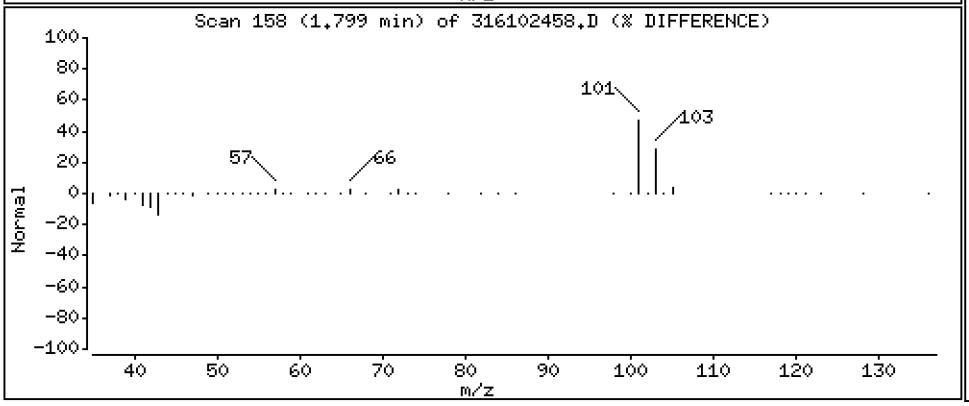
Column phase: DB-VRX Column diameter: 0.25

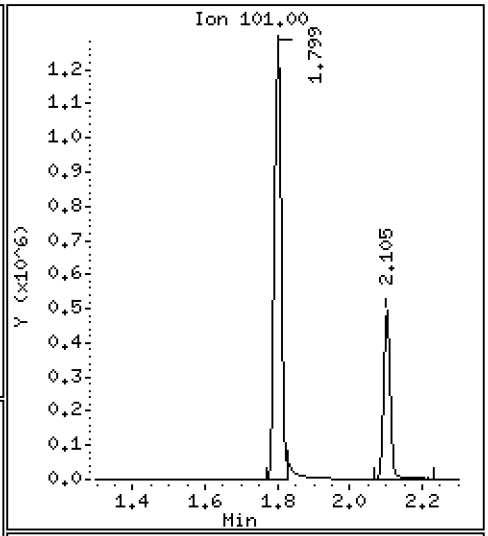
7 Trichlorofluoromethane Concentration: 99.3173 ug/L

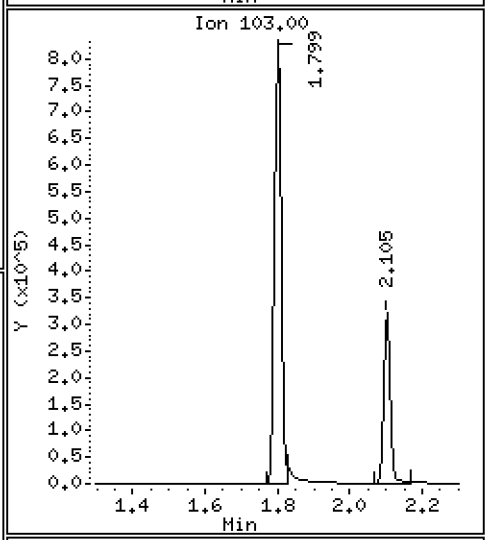


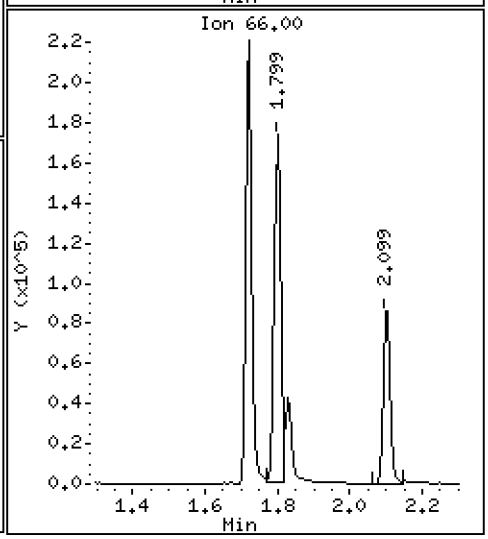












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 16

Date : 25-OCT-2016 01:14

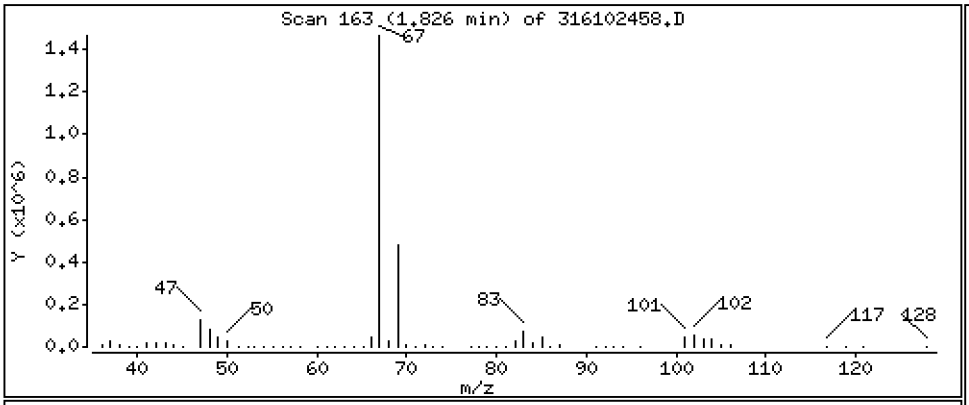
Client ID: Instrument: ms03.i

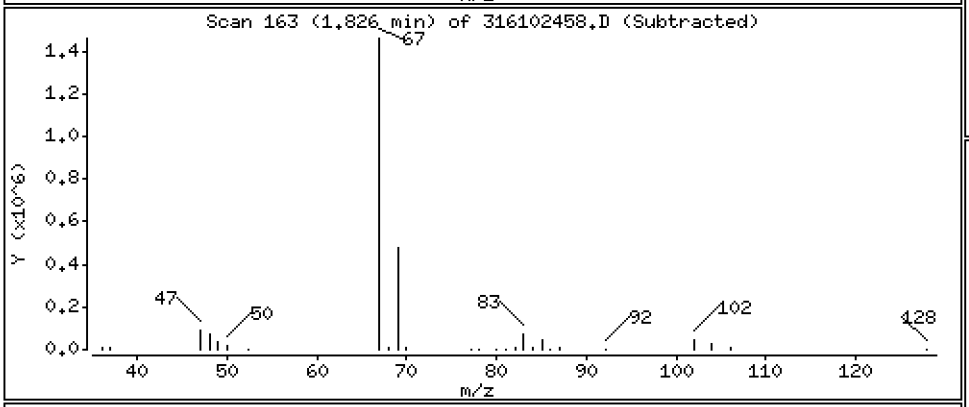
Sample Info: 1238;;1;1;5;;;

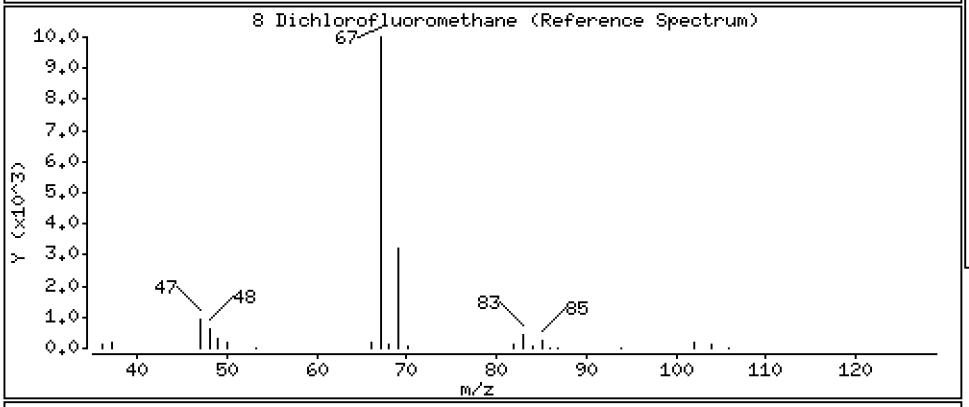
Purge Volume: 5.0 Operator: CJG

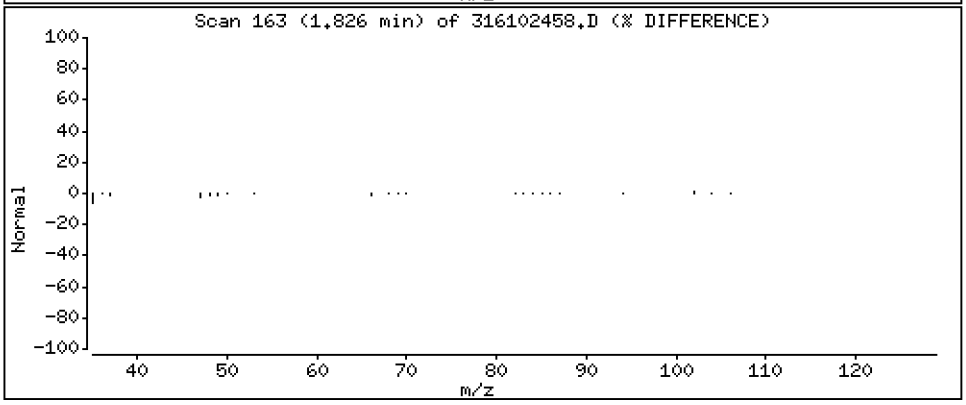
Column phase: DB-VRX Column diameter: 0.25

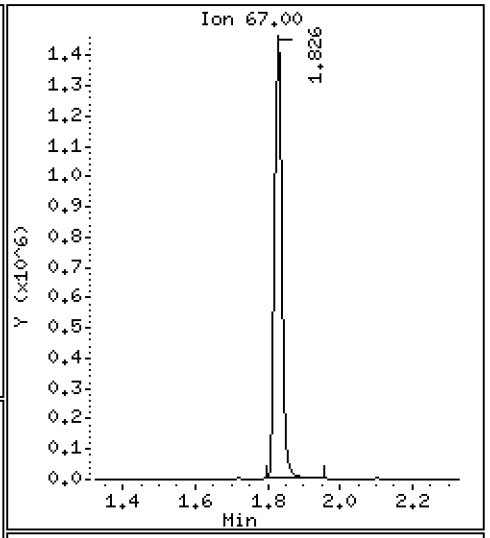
8 Dichlorofluoromethane Concentration: 100.065 ug/L

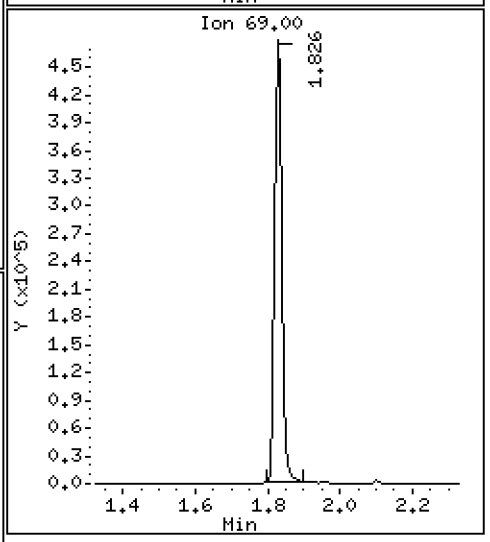












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 17

Date : 25-OCT-2016 01:14

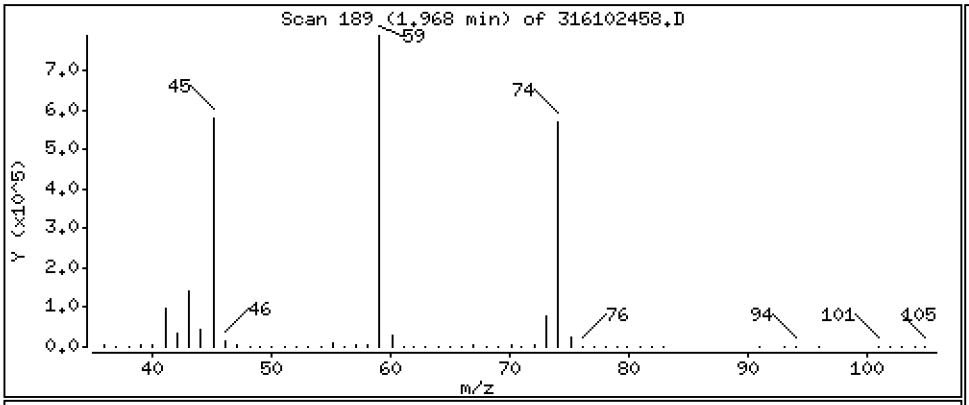
Client ID: Instrument: ms03.i

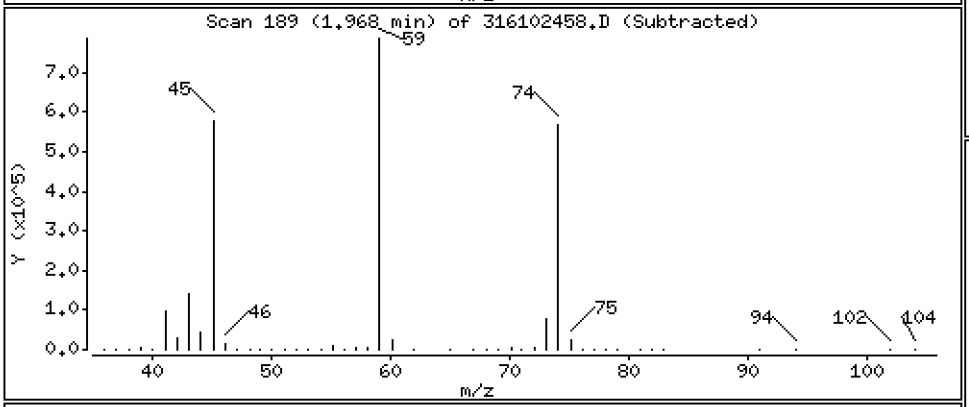
Sample Info: 1238;;1;1;5;;;

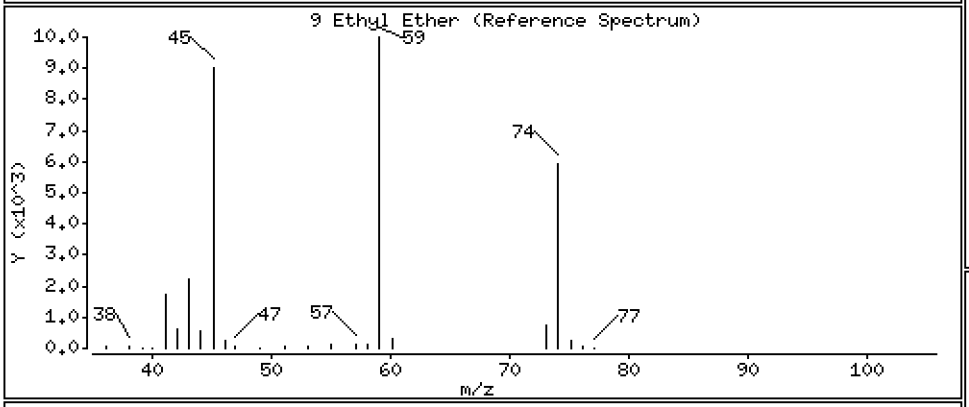
Purge Volume: 5.0 Operator: CJG

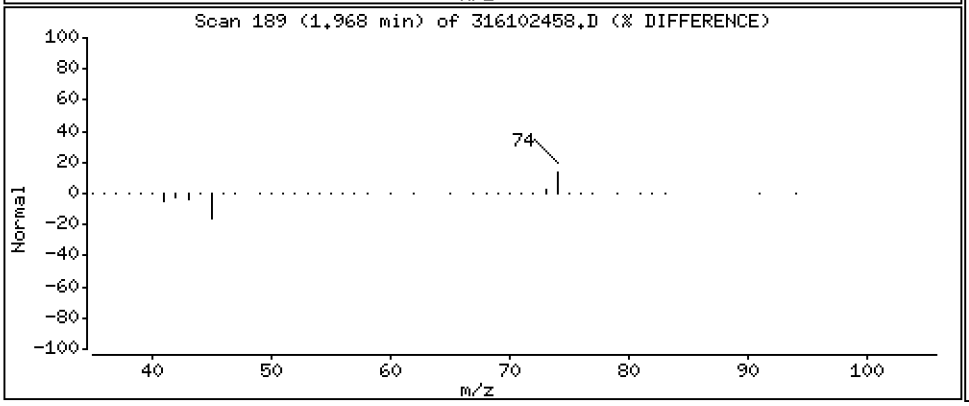
Column phase: DB-VRX Column diameter: 0.25

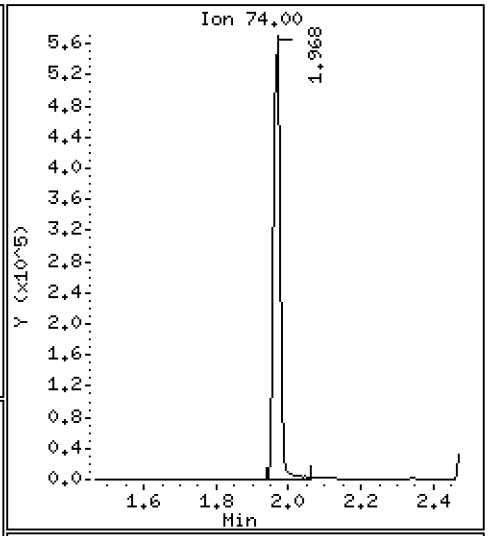
9 Ethyl Ether Concentration: 98.4824 ug/L

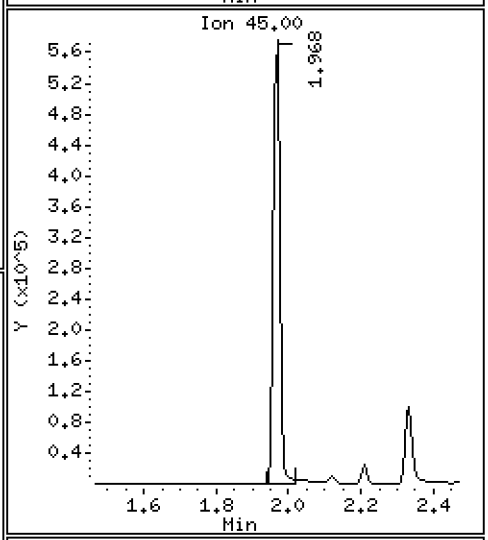


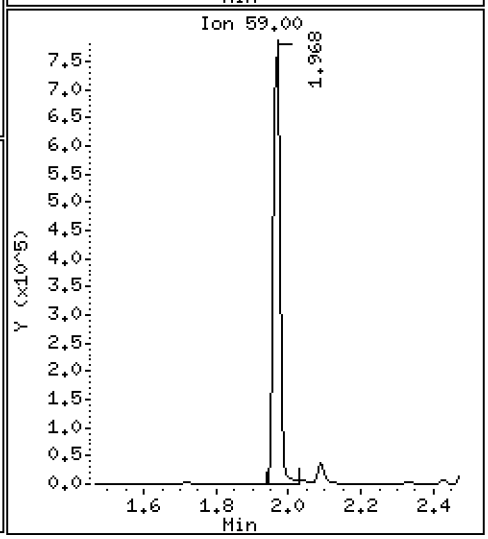












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 18

Date : 25-OCT-2016 01:14

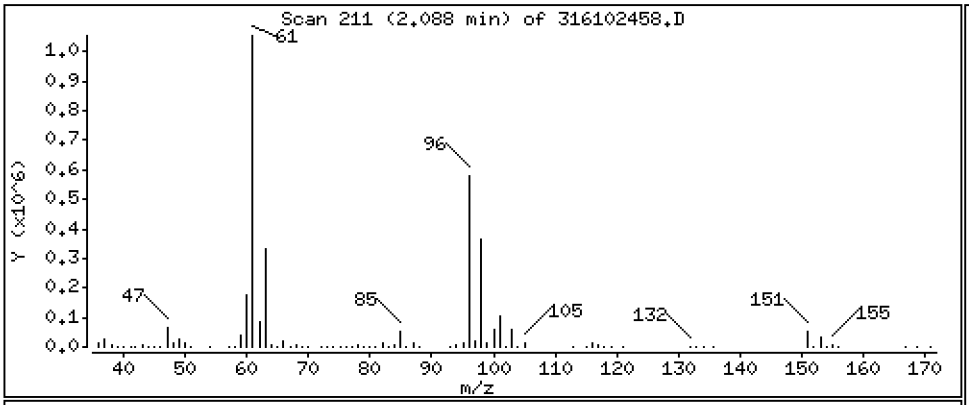
Client ID: Instrument: ms03.i

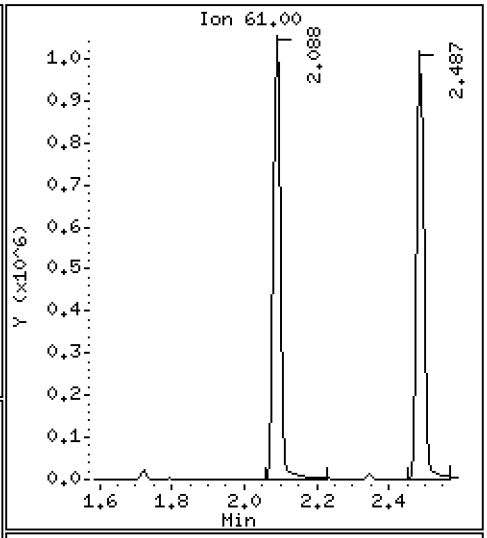
Sample Info: 1238;;1;1;5;;;

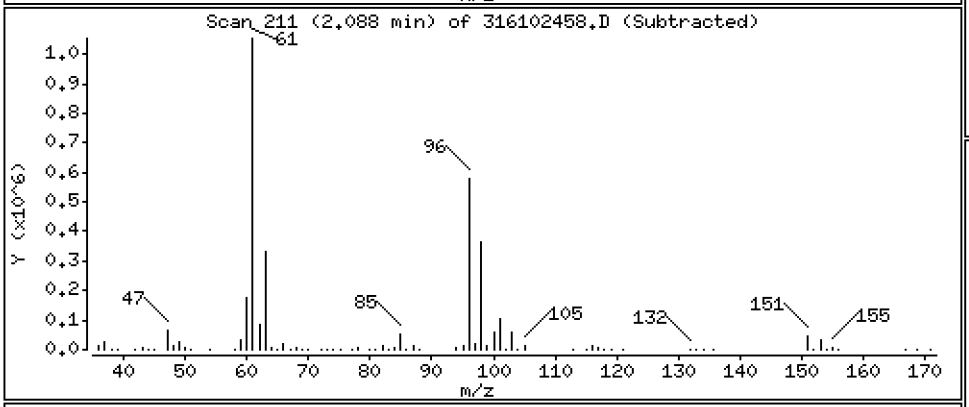
Purge Volume: 5.0 Operator: CJG

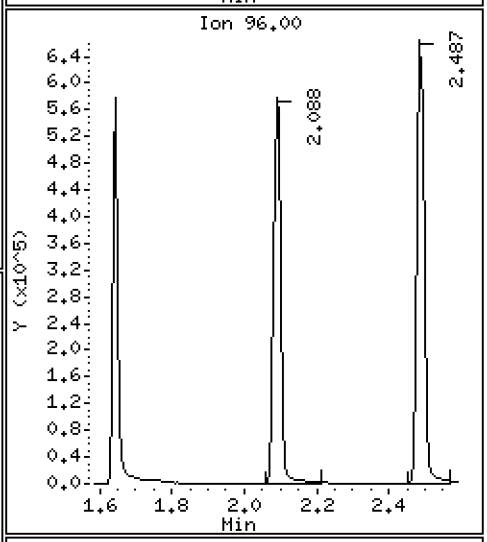
Column phase: DB-VRX Column diameter: 0.25

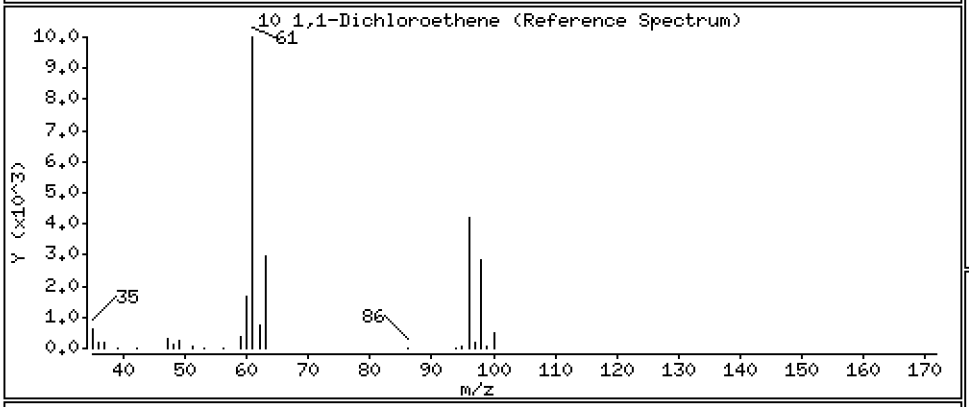
10 1,1-Dichloroethene Concentration: 99.9438 ug/L

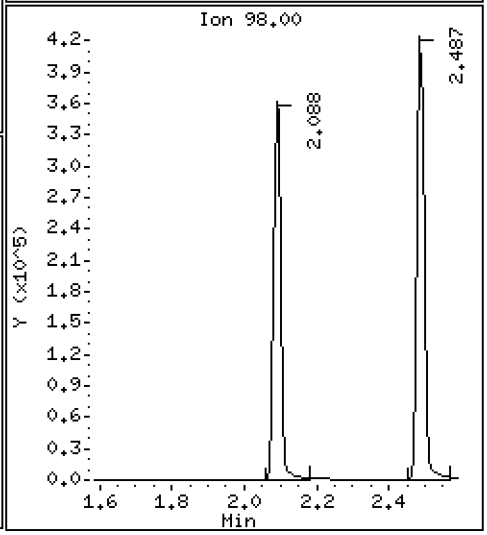


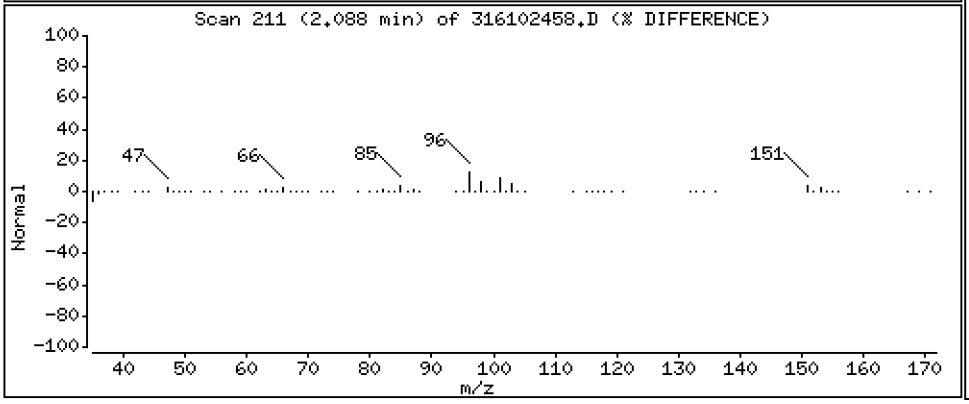












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 19

Date : 25-OCT-2016 01:14

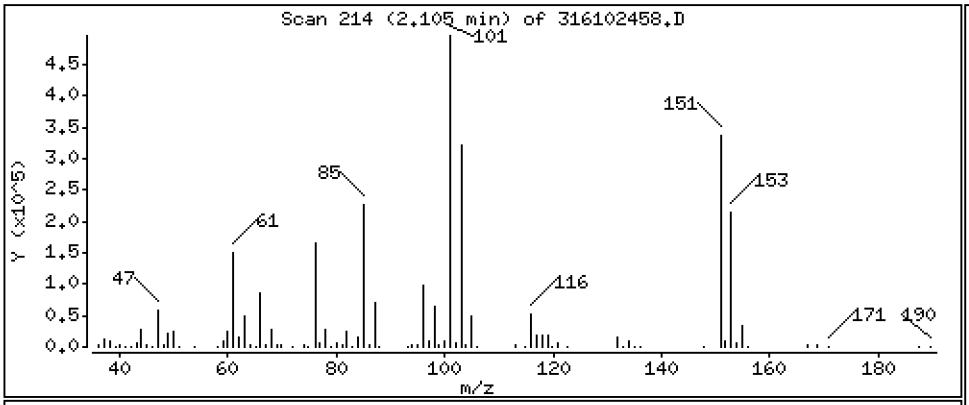
Client ID: Instrument: ms03.i

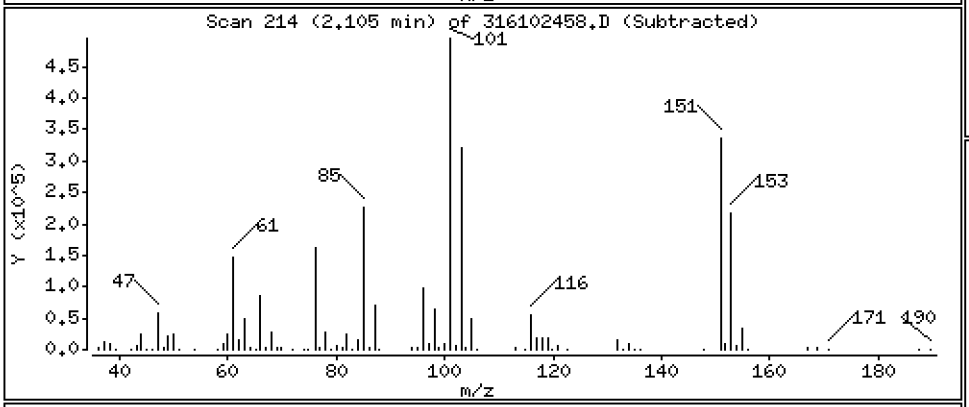
Sample Info: 1238;;1;1;5;;;

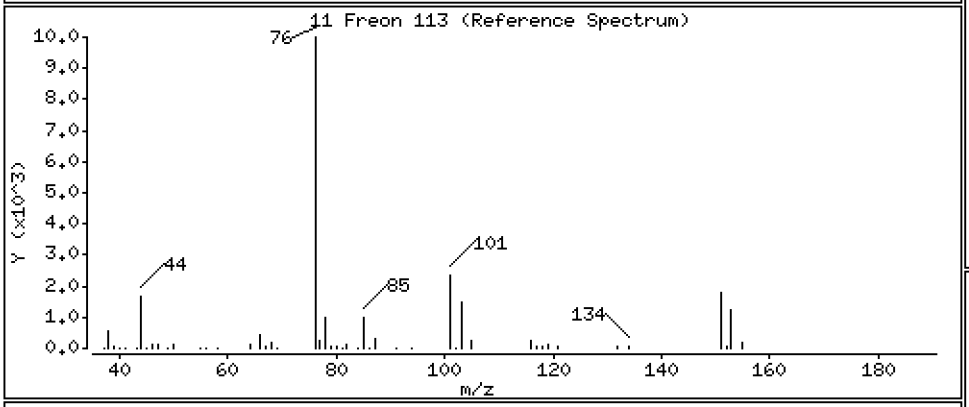
Purge Volume: 5.0 Operator: CJG

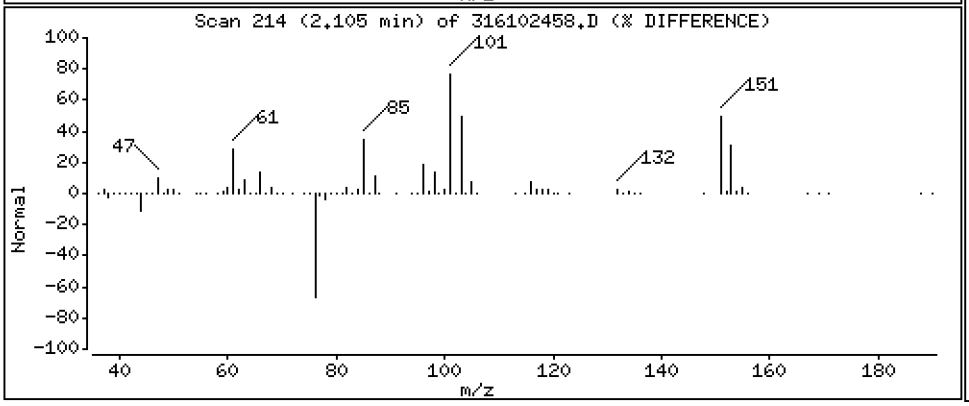
Column phase: DB-VRX Column diameter: 0.25

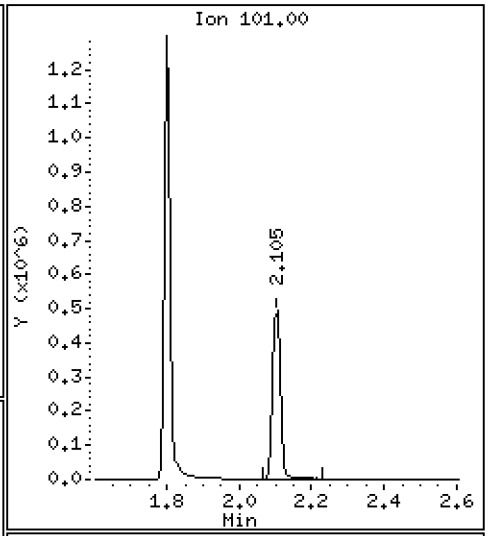
11 Freon 113 Concentration: 99.4589 ug/L

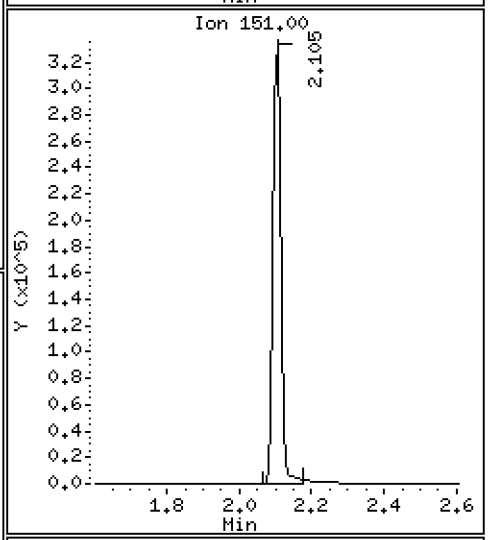


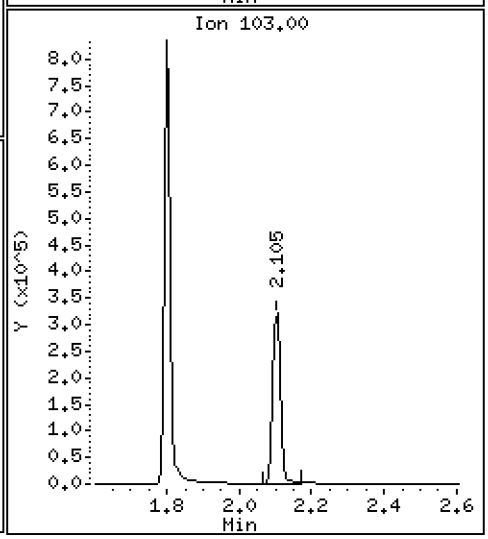












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 20

Date : 25-OCT-2016 01:14

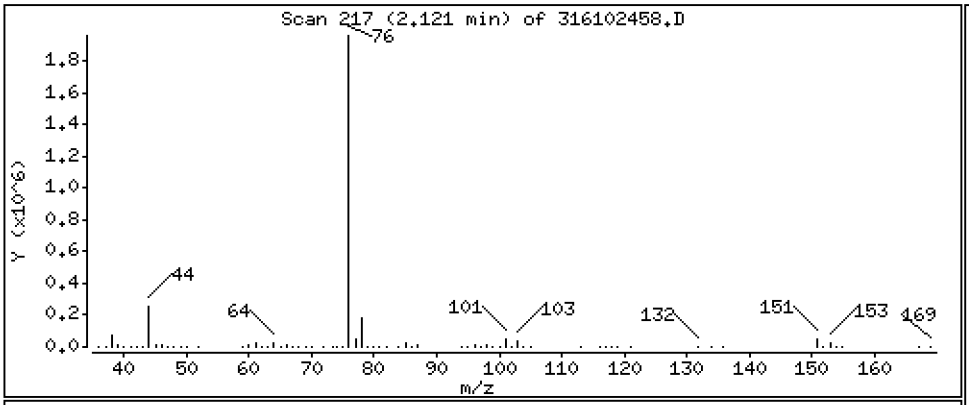
Client ID: Instrument: ms03.i

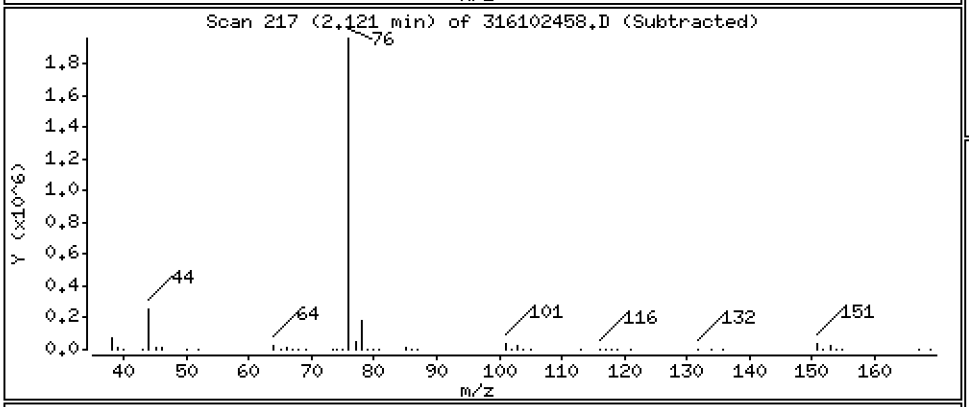
Sample Info: 1238;;1;1;5;;;

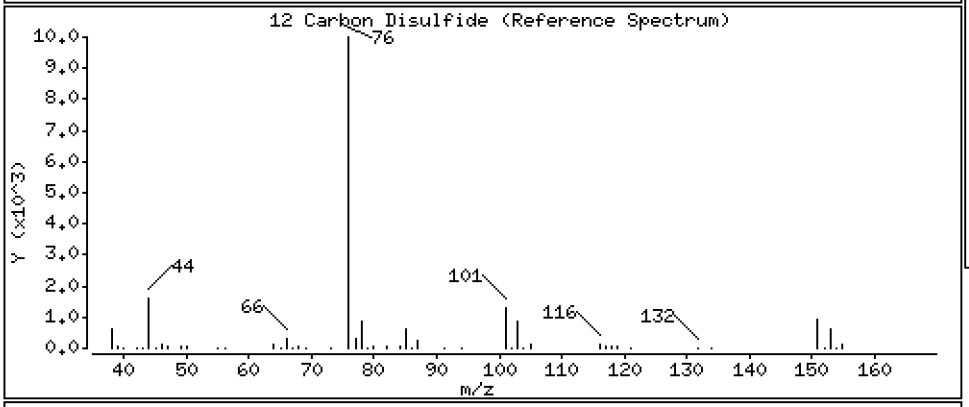
Purge Volume: 5.0 Operator: CJG

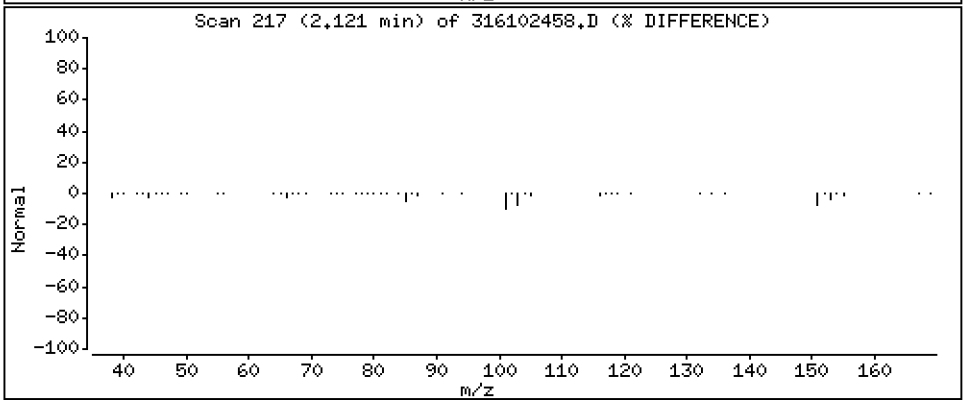
Column phase: DB-VRX Column diameter: 0.25

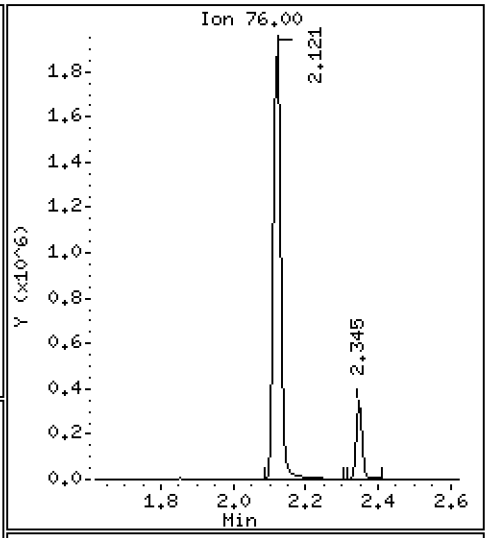
12 Carbon Disulfide Concentration: 101.392 ug/L

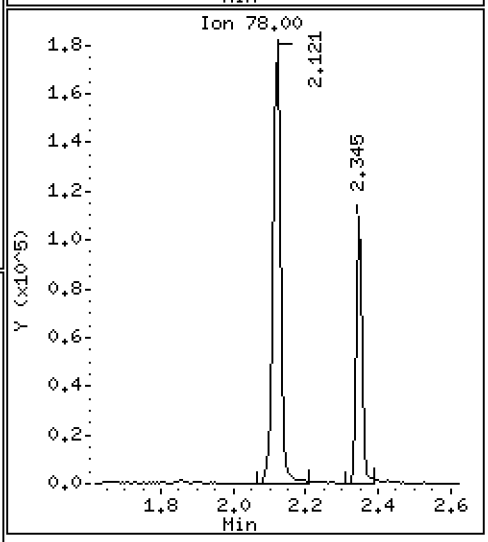












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 21

Date : 25-OCT-2016 01:14

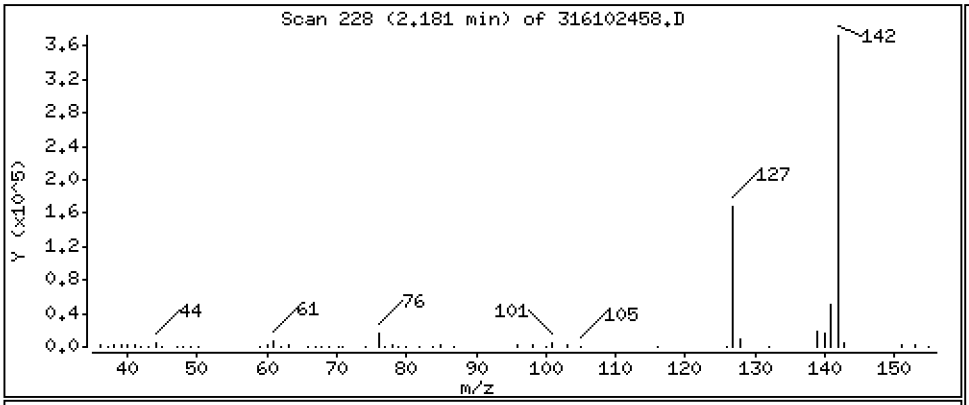
Client ID: Instrument: ms03.i

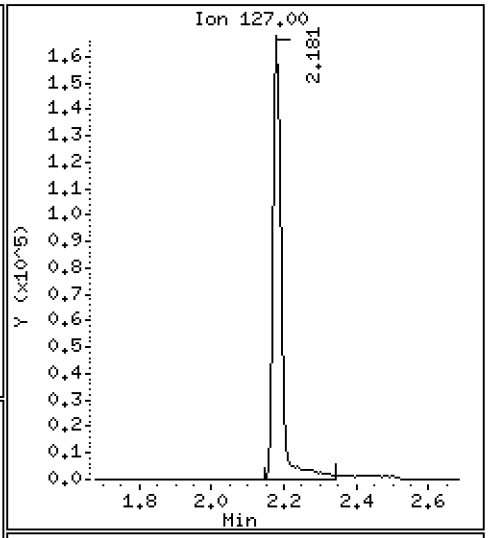
Sample Info: 1238;;1;1;5;;;

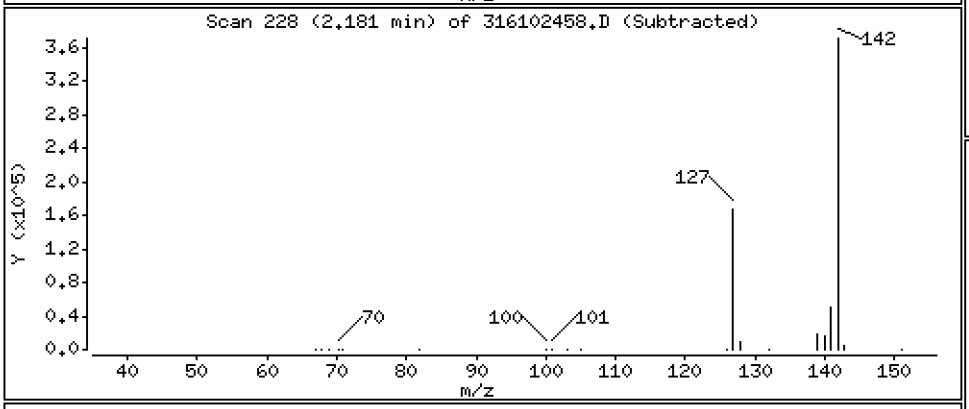
Purge Volume: 5.0 Operator: CJG

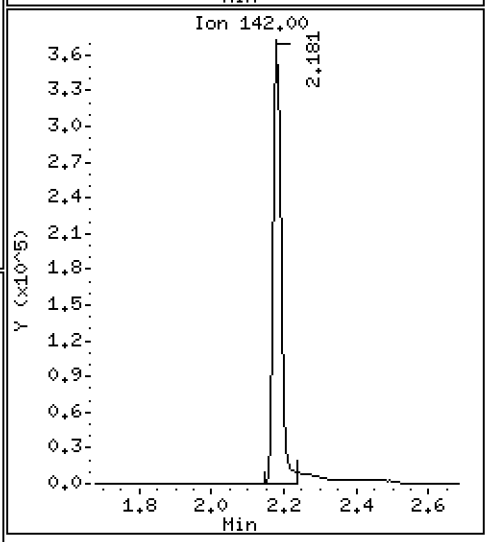
Column phase: DB-VRX Column diameter: 0.25

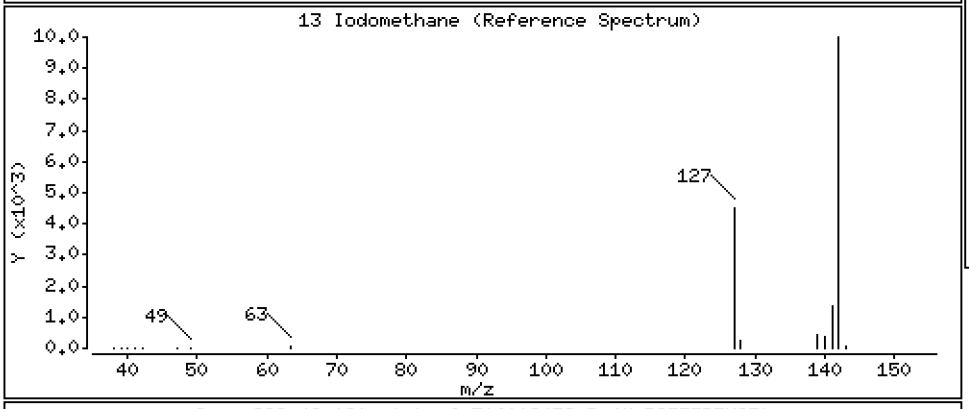
13 Iodomethane Concentration: 105.804 ug/L

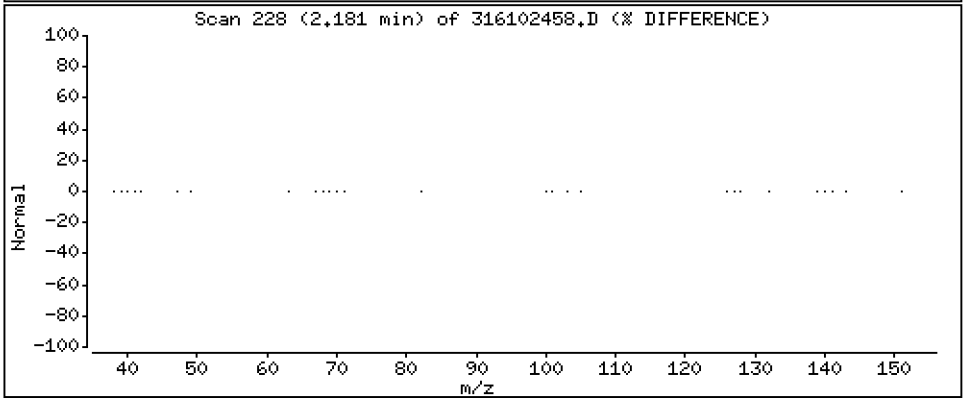












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 22

Date : 25-OCT-2016 01:14

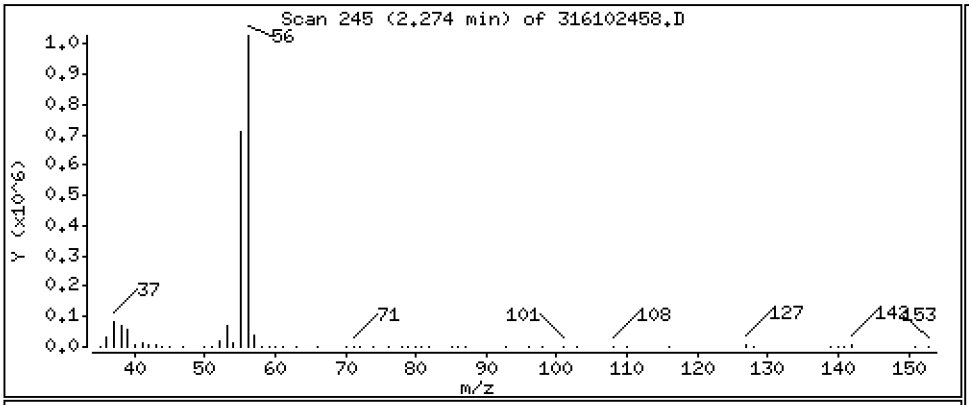
Client ID: Instrument: ms03.i

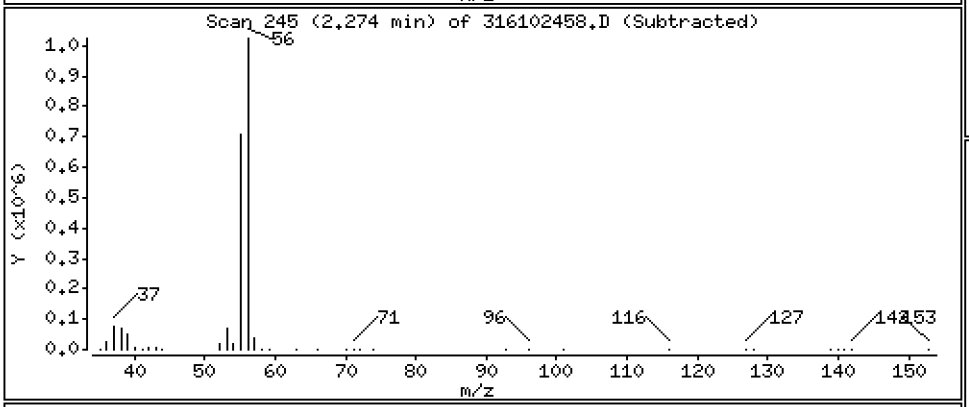
Sample Info: 1238;;1;1;5;;;

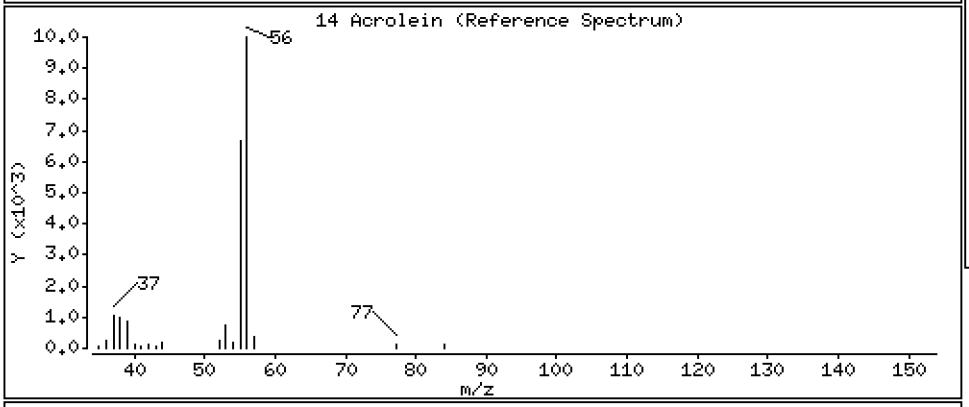
Purge Volume: 5.0 Operator: CJG

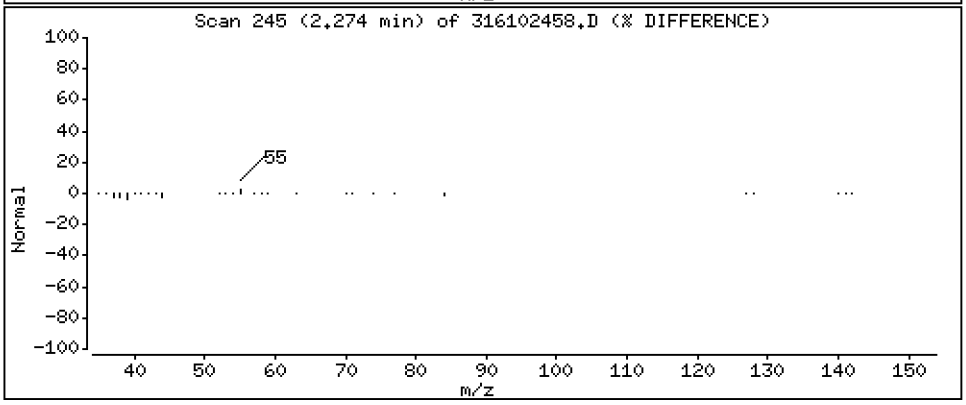
Column phase: DB-VRX Column diameter: 0.25

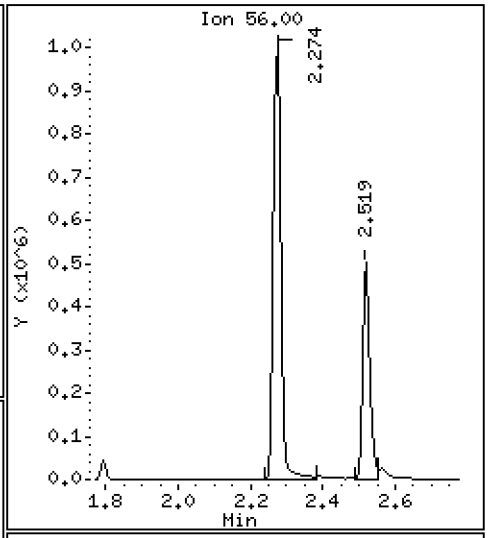
14 Acrolein Concentration: 1000.23 ug/L

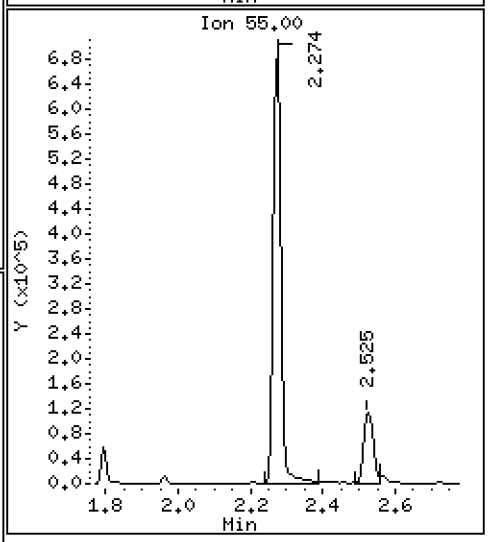












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 23

Date : 25-OCT-2016 01:14

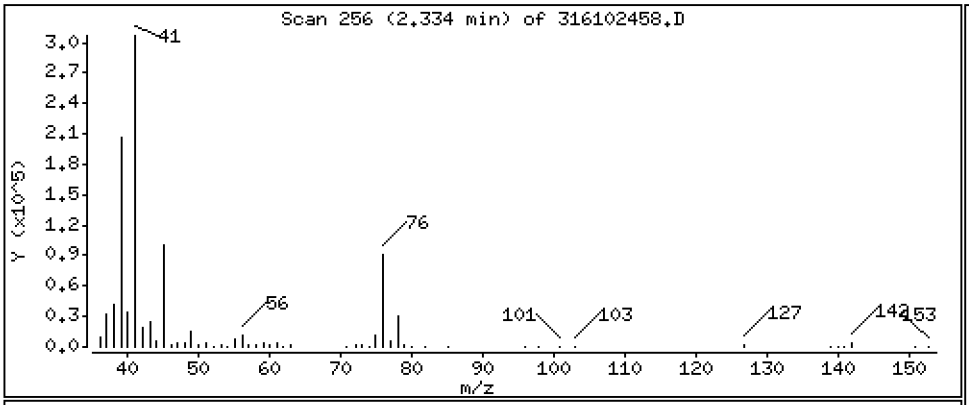
Client ID: Instrument: ms03.i

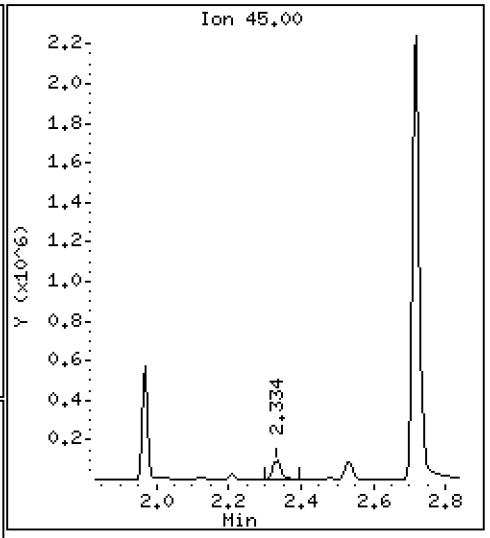
Sample Info: 1238;;1;1;5;;;

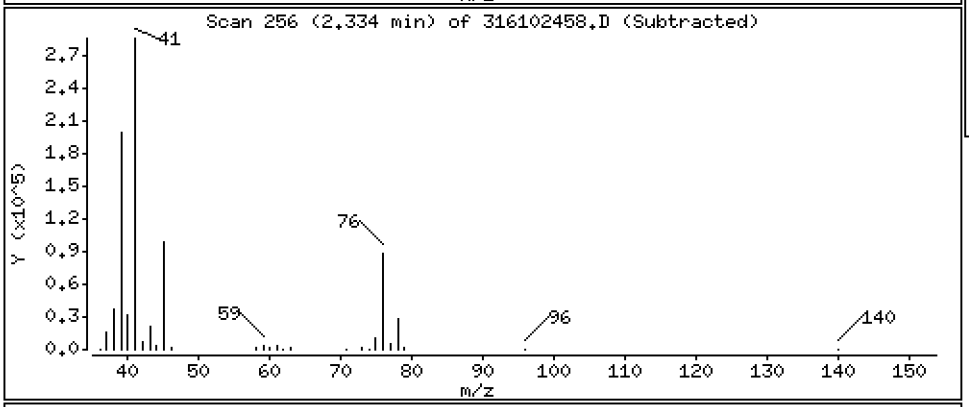
Purge Volume: 5.0 Operator: CJG

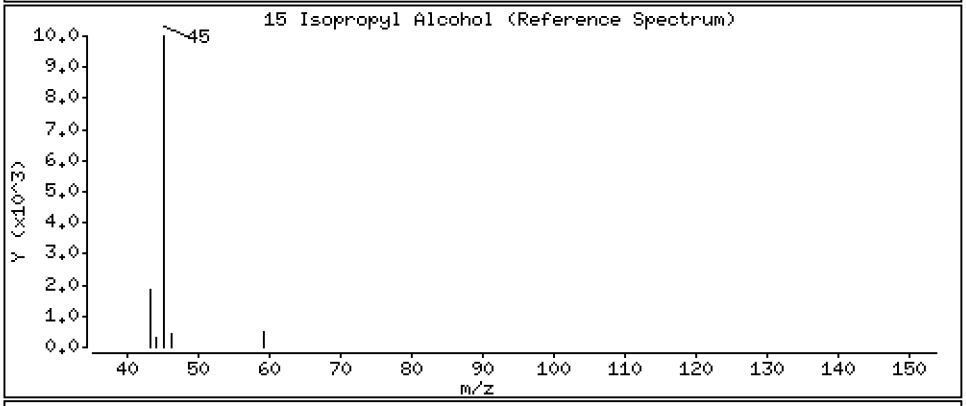
Column phase: DB-VRX Column diameter: 0.25

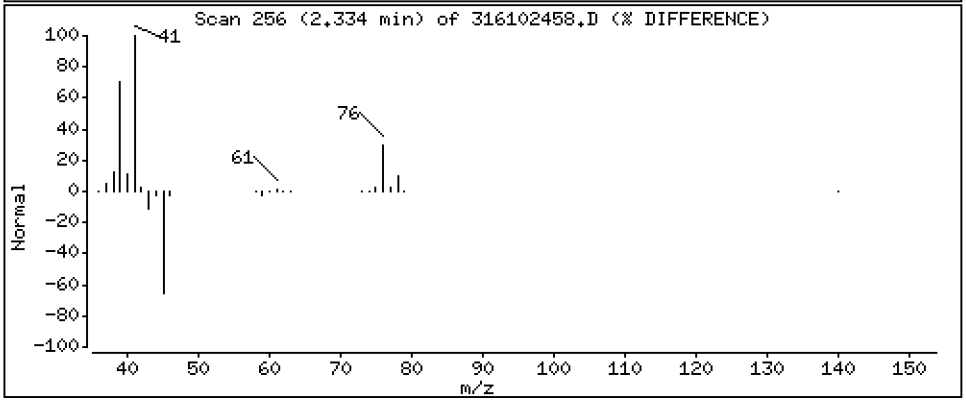
15 Isopropyl Alcohol Concentration: 495.120 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 24

Date : 25-OCT-2016 01:14

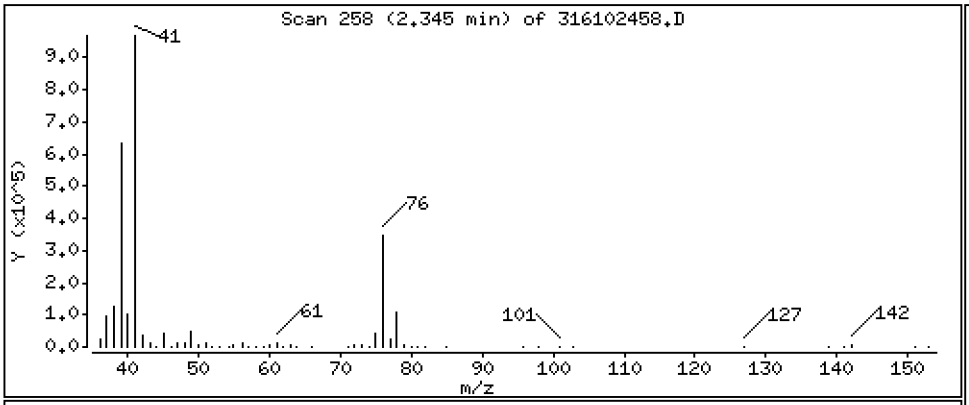
Client ID: Instrument: ms03.i

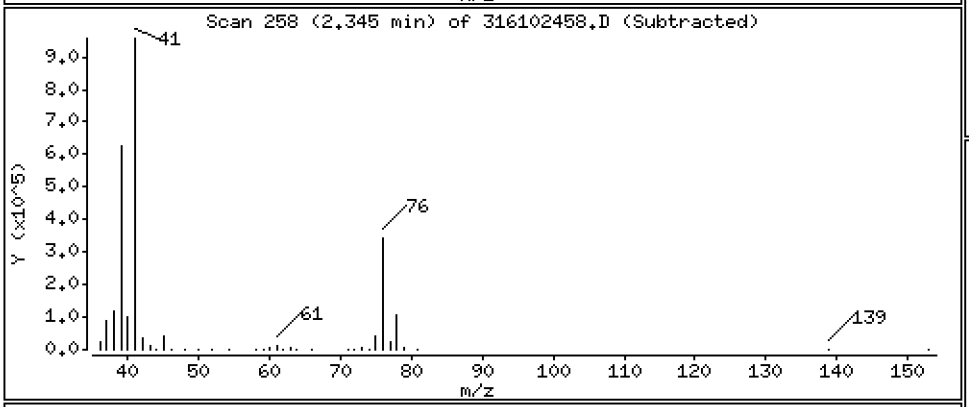
Sample Info: 1238;;1;1;5;;;

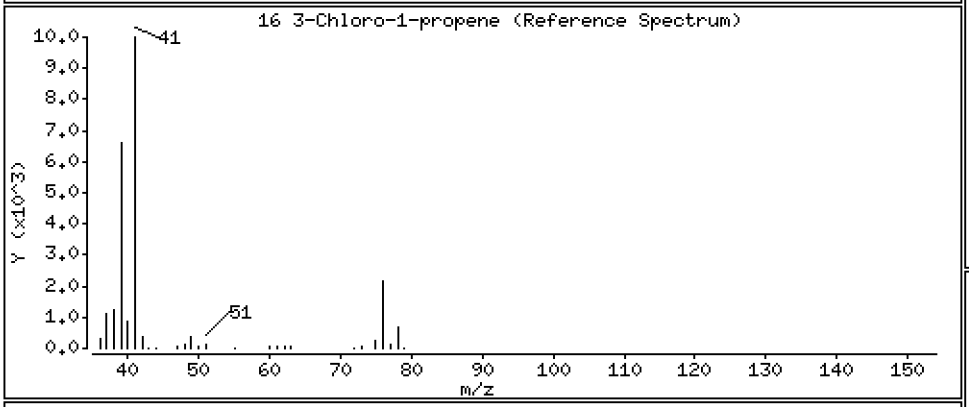
Purge Volume: 5.0 Operator: CJG

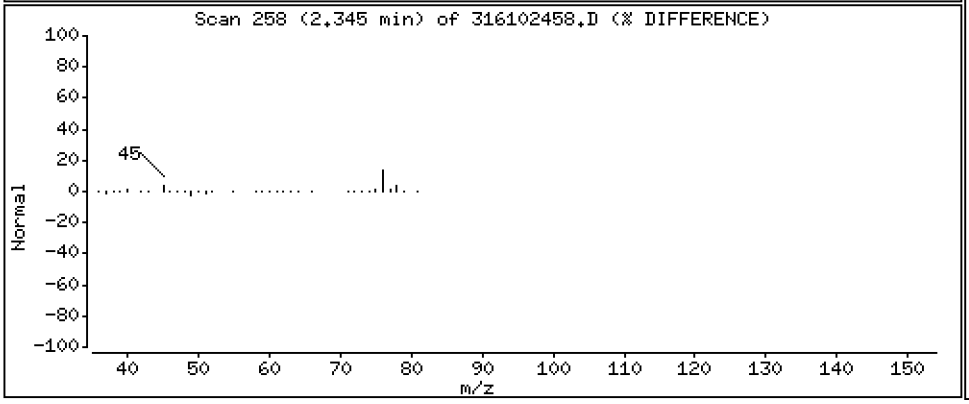
Column phase: DB-VRX Column diameter: 0.25

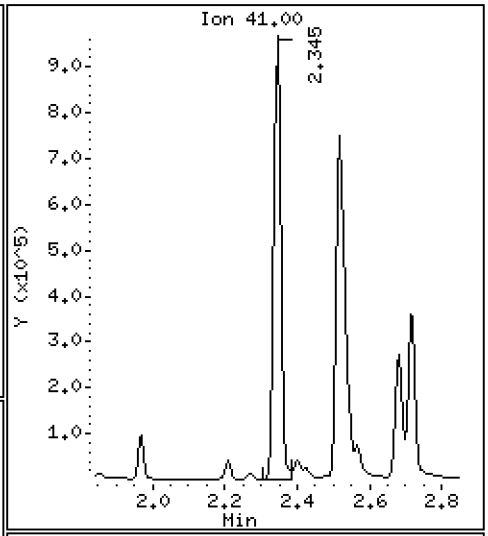
16 3-Chloro-1-propene Concentration: 101.564 ug/L

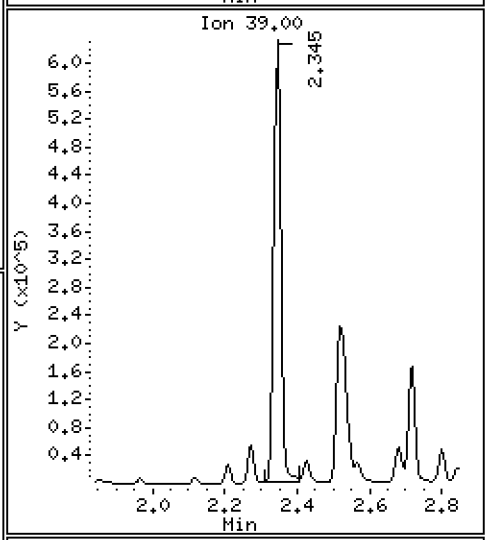


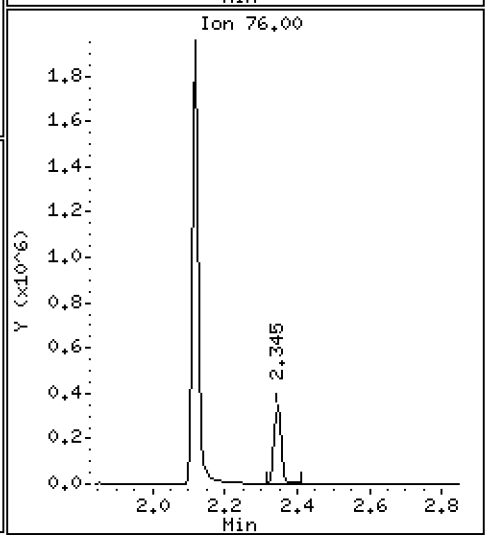












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 25

Date : 25-OCT-2016 01:14

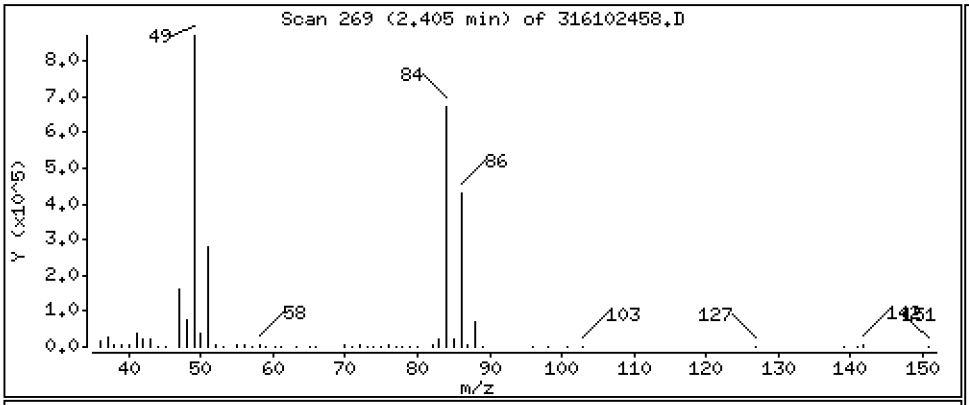
Client ID: Instrument: ms03.i

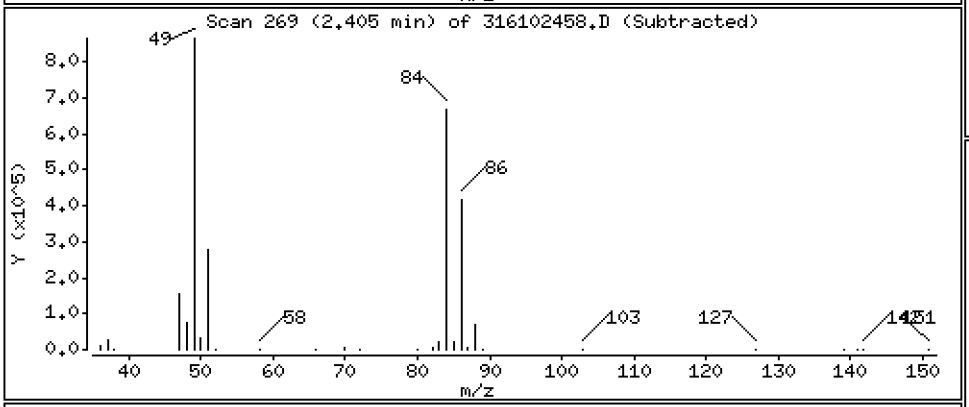
Sample Info: 1238;;1;1;5;;;

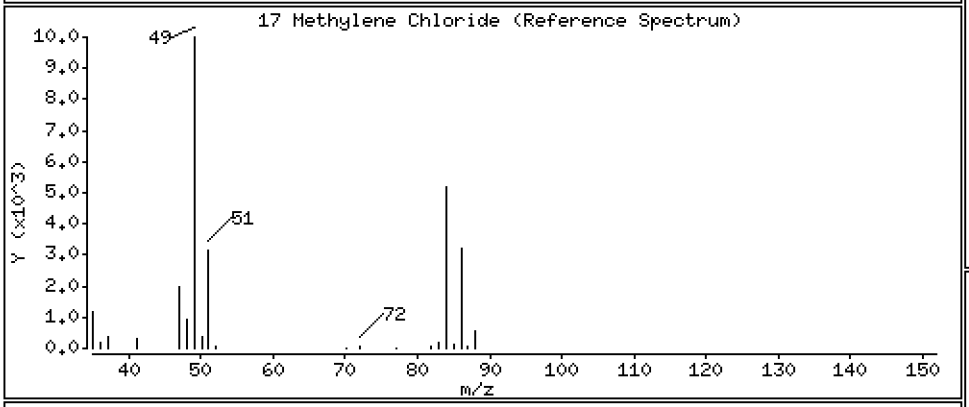
Purge Volume: 5.0 Operator: CJG

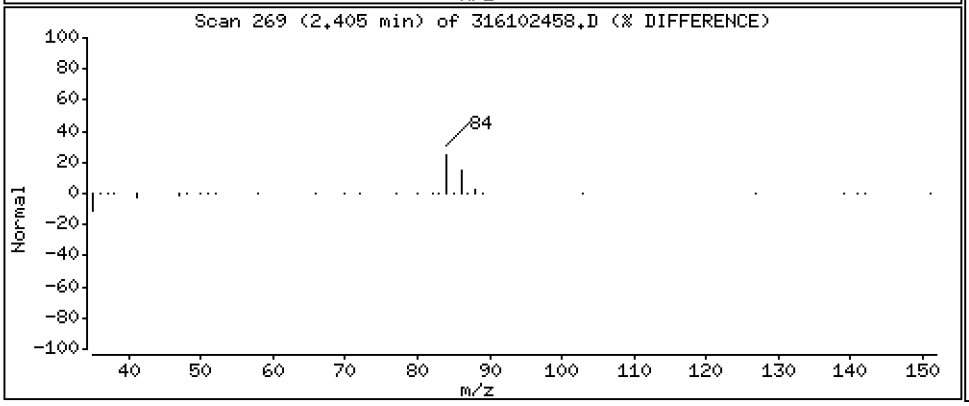
Column phase: DB-VRX Column diameter: 0.25

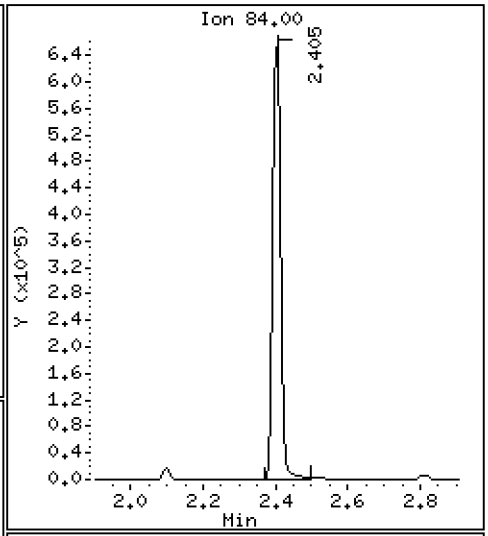
17 Methylene Chloride Concentration: 100.085 ug/L

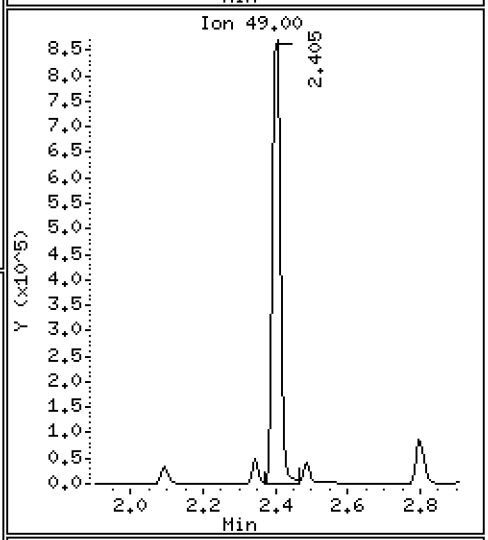


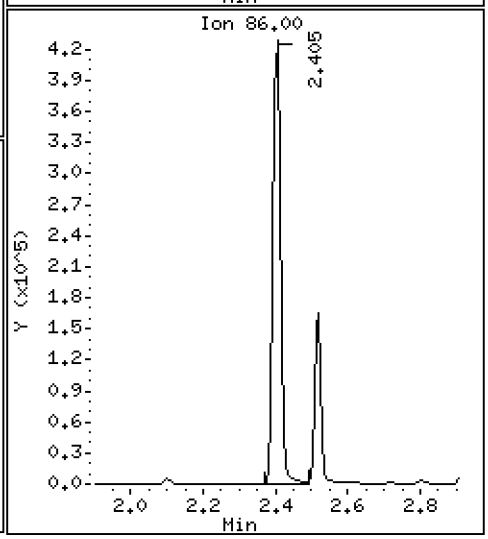












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 26

Date : 25-OCT-2016 01:14

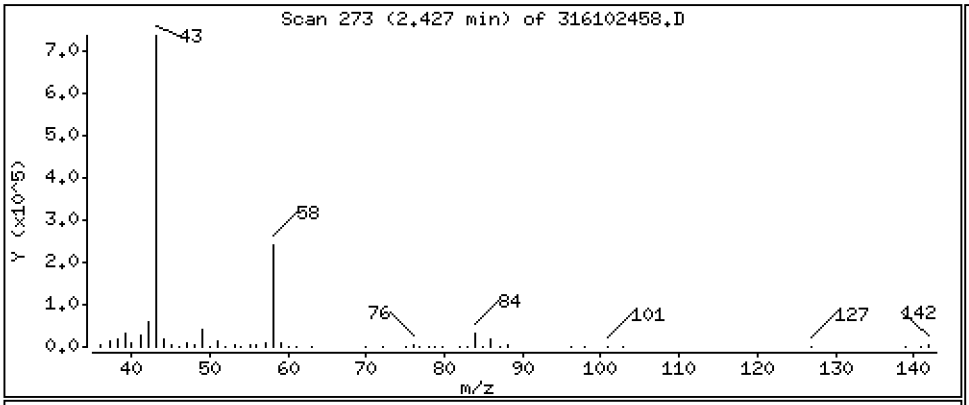
Client ID: Instrument: ms03.i

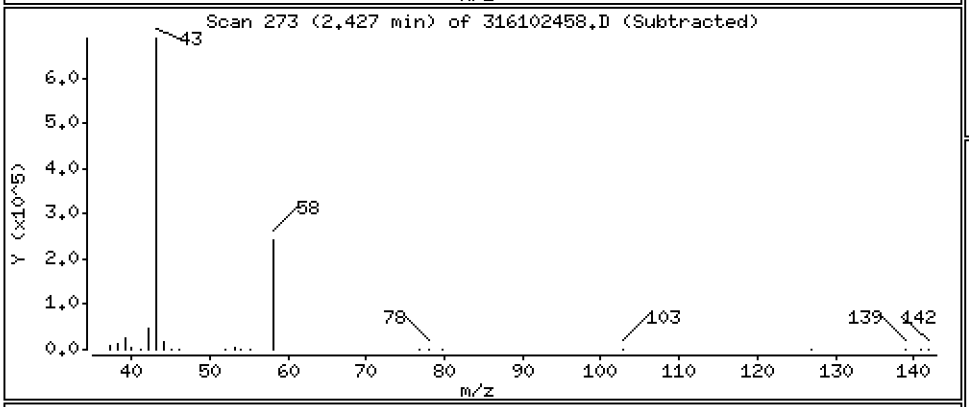
Sample Info: 1238;;1;1;5;;;

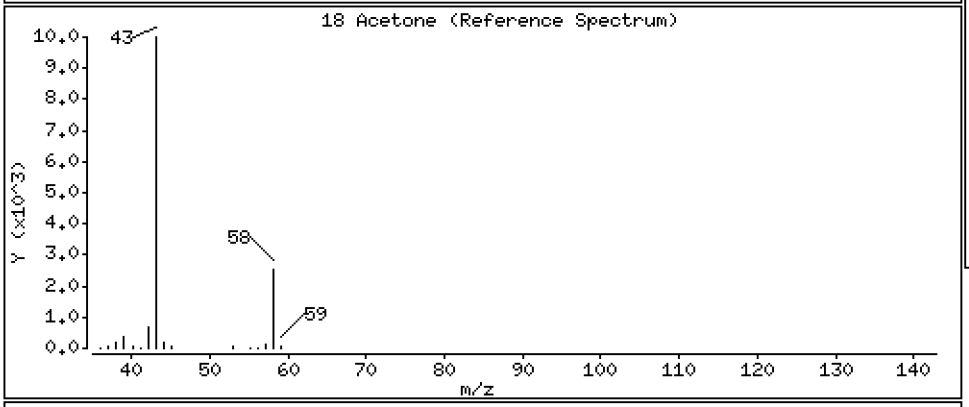
Purge Volume: 5.0 Operator: CJG

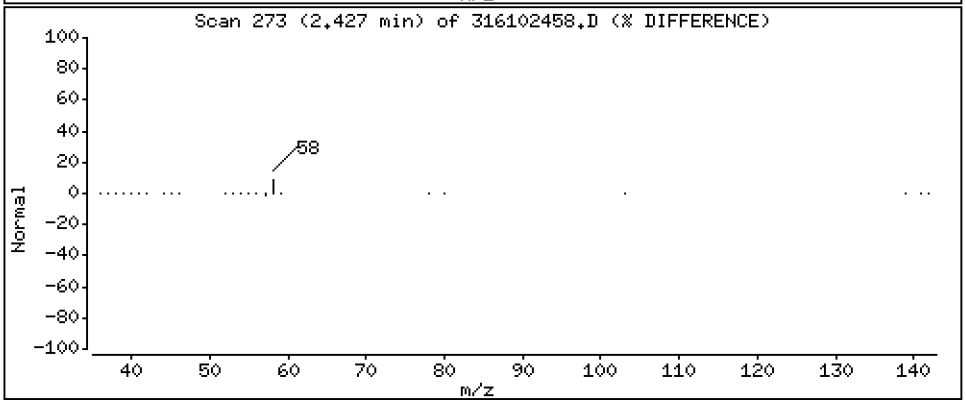
Column phase: DB-VRX Column diameter: 0.25

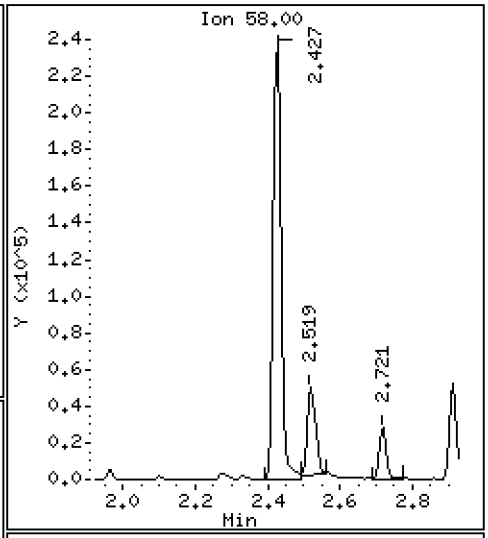
18 Acetone Concentration: 493.364 ug/L

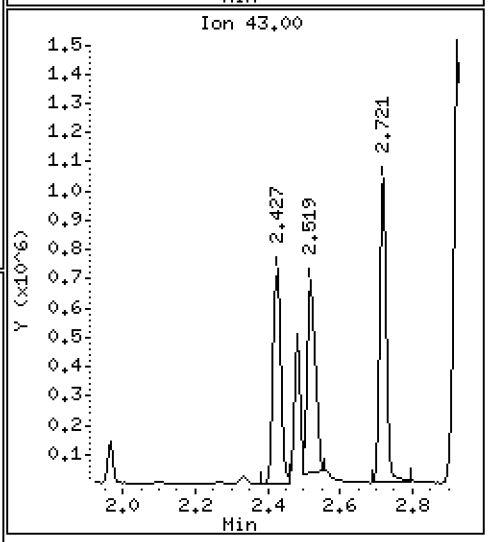












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 27

Date : 25-OCT-2016 01:14

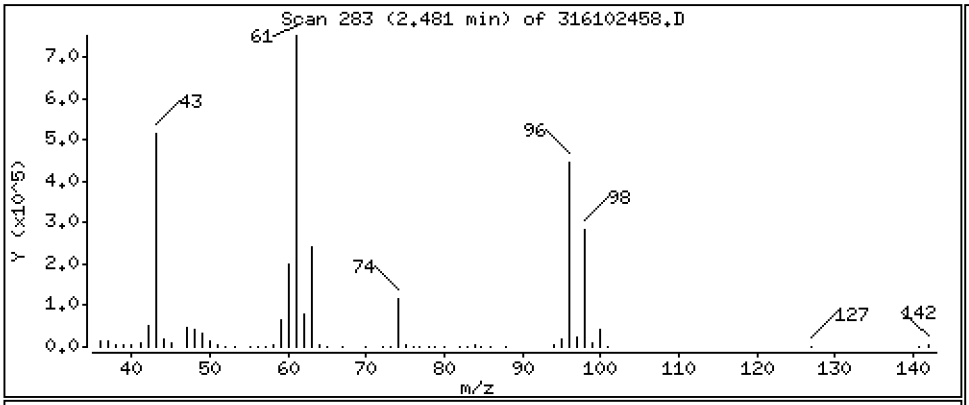
Client ID: Instrument: ms03.i

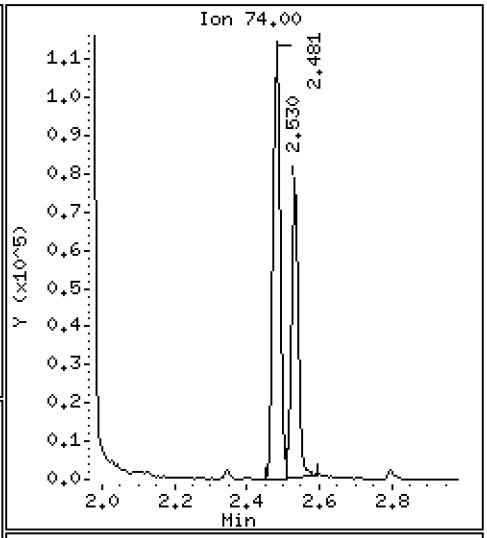
Sample Info: 1238;;1;1;5;;;

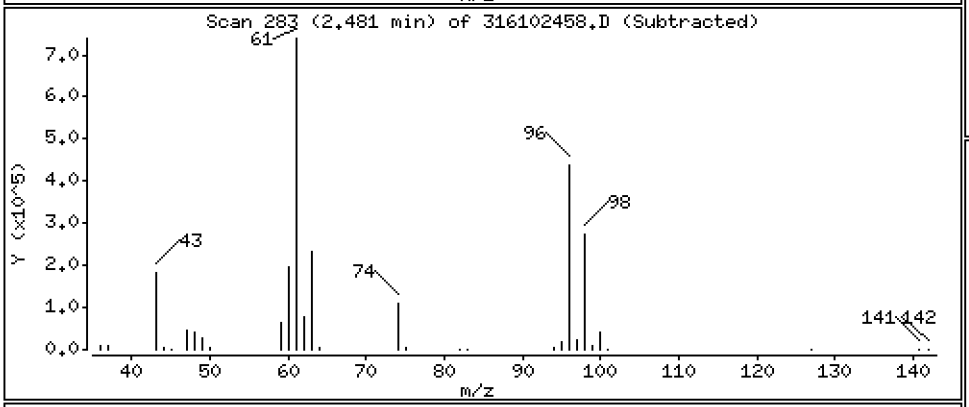
Purge Volume: 5.0 Operator: CJG

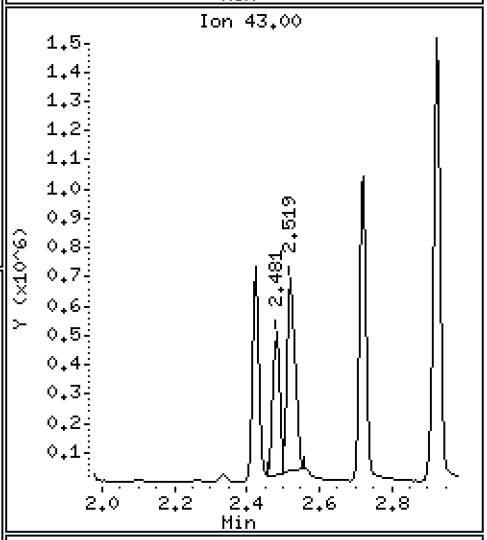
Column phase: DB-VRX Column diameter: 0.25

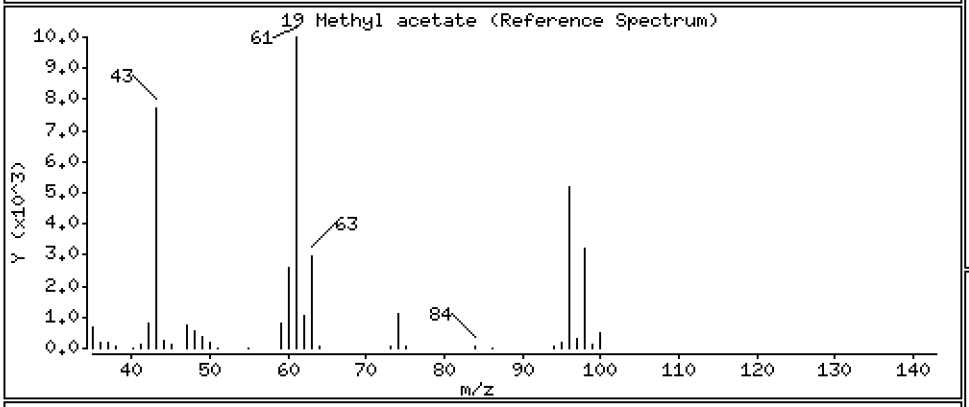
19 Methyl acetate Concentration: 98.9751 ug/L

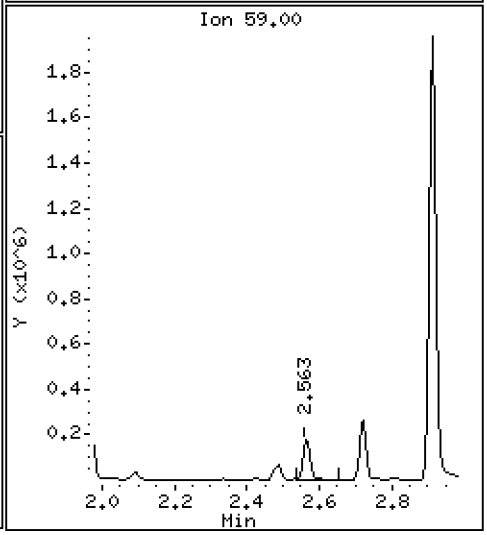


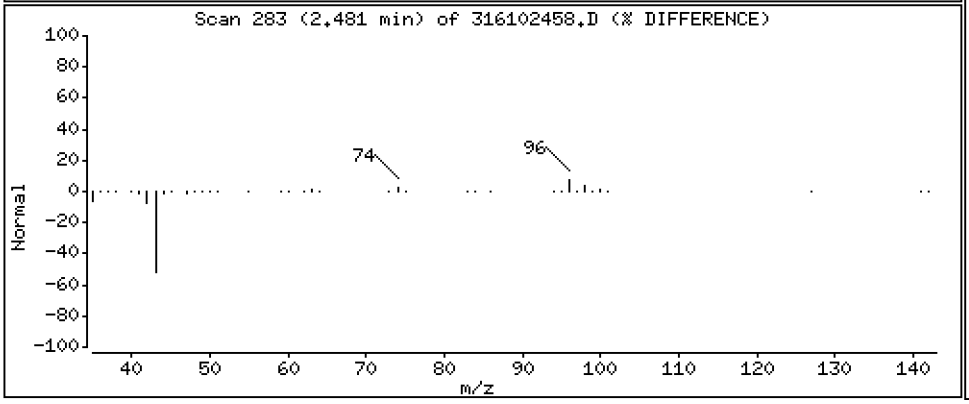












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 28

Date : 25-OCT-2016 01:14

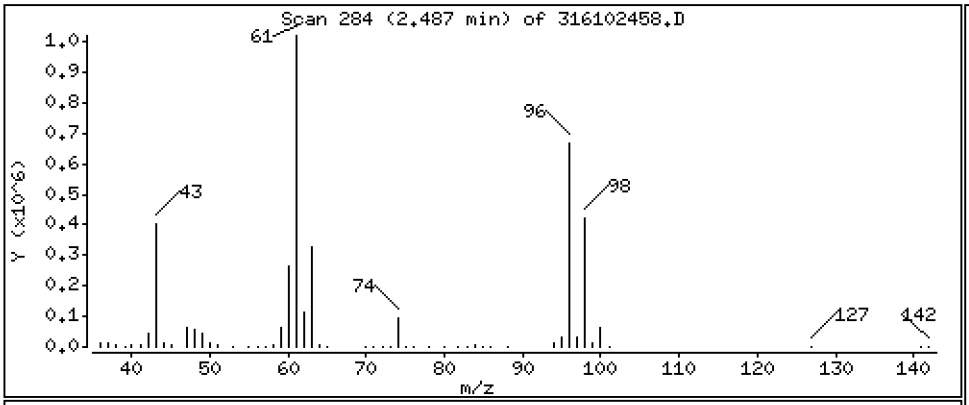
Client ID: Instrument: ms03.i

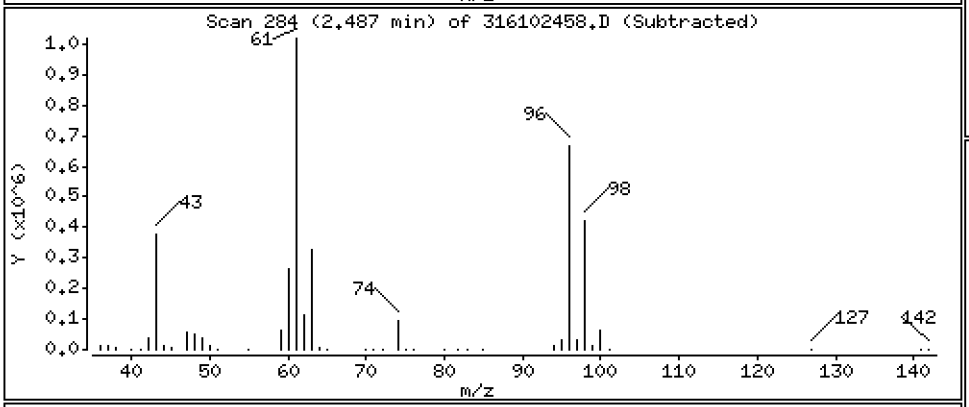
Sample Info: 1238;;1;1;5;;;

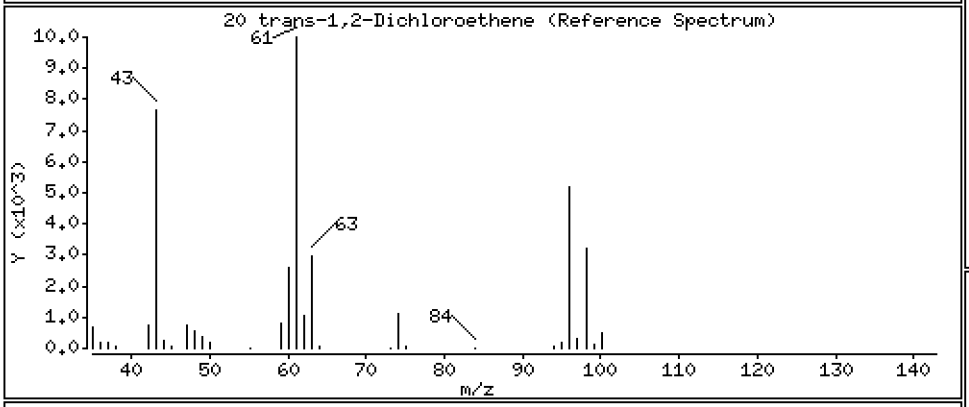
Purge Volume: 5.0 Operator: CJG

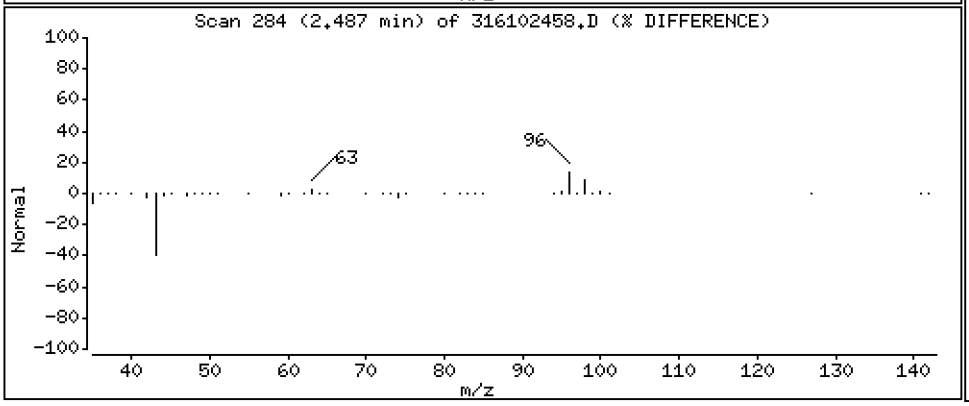
Column phase: DB-VRX Column diameter: 0.25

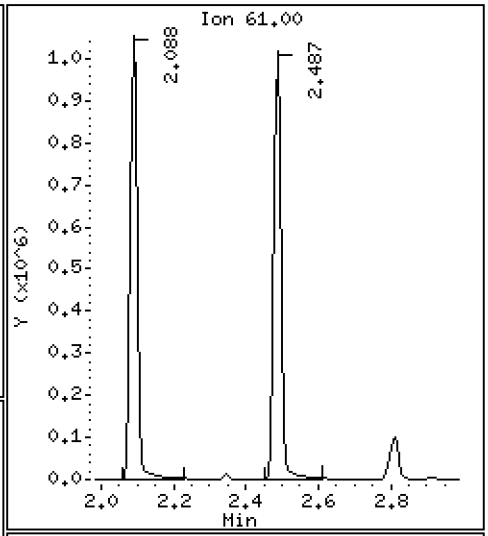
20 trans-1,2-Dichloroethene Concentration: 100.462 ug/L

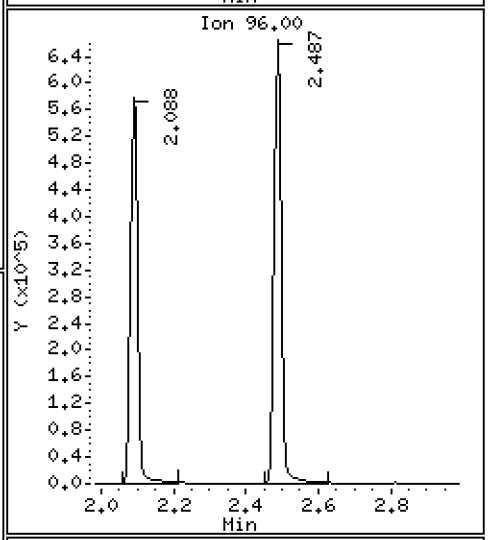


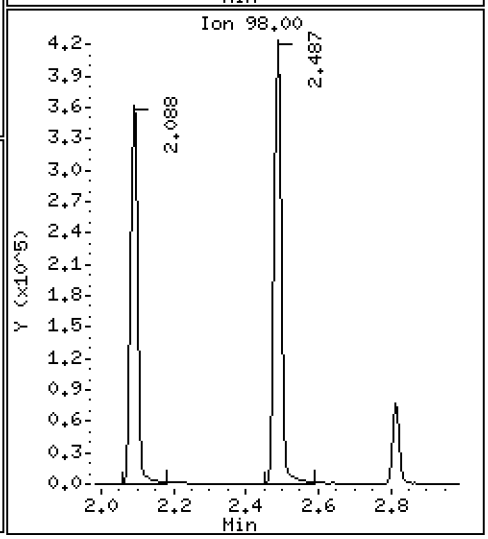












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 29

Date : 25-OCT-2016 01:14

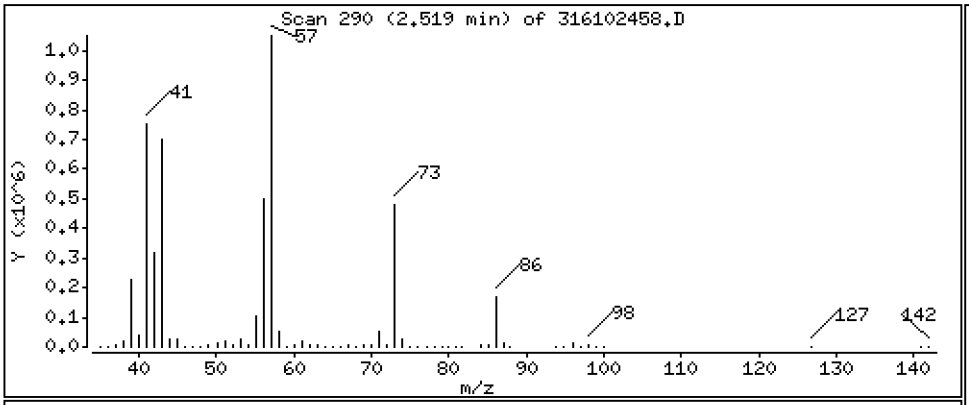
Client ID: Instrument: ms03.i

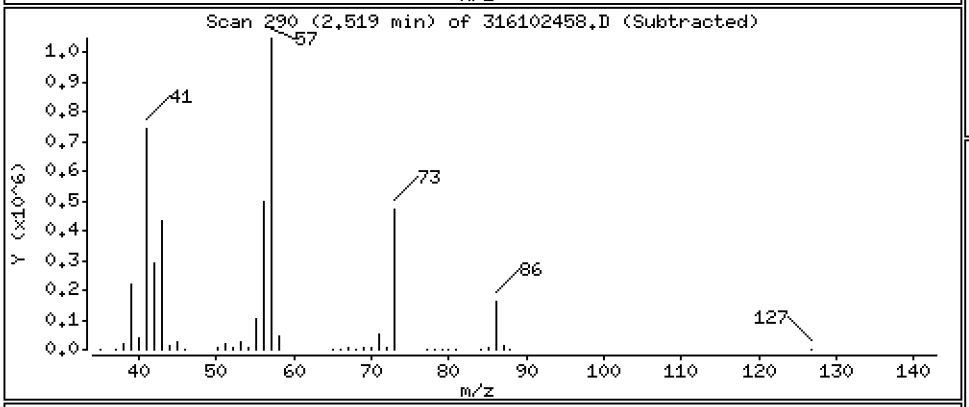
Sample Info: 1238;;1;1;5;;;

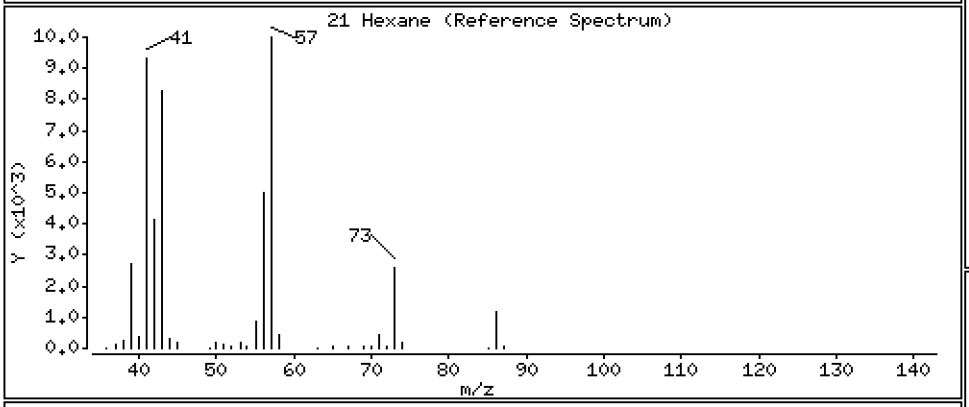
Purge Volume: 5.0 Operator: CJG

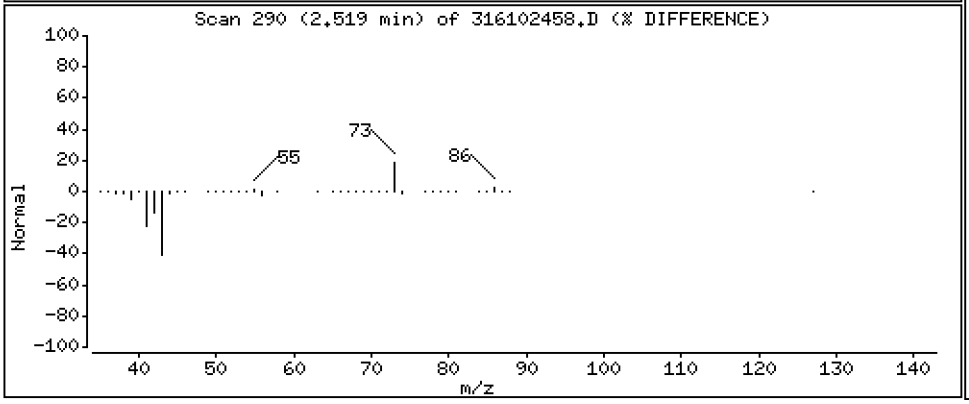
Column phase: DB-VRX Column diameter: 0.25

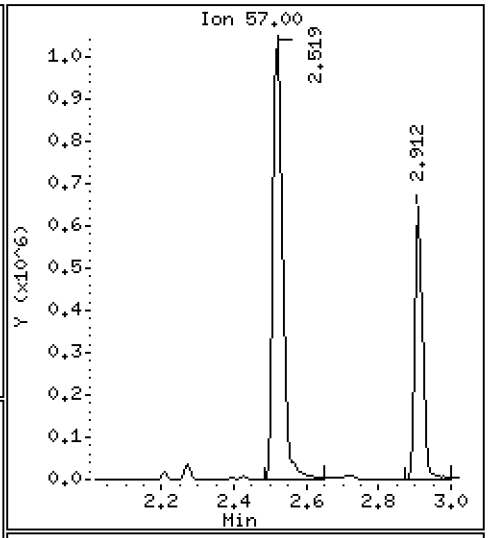
21 Hexane Concentration: 100.431 ug/L

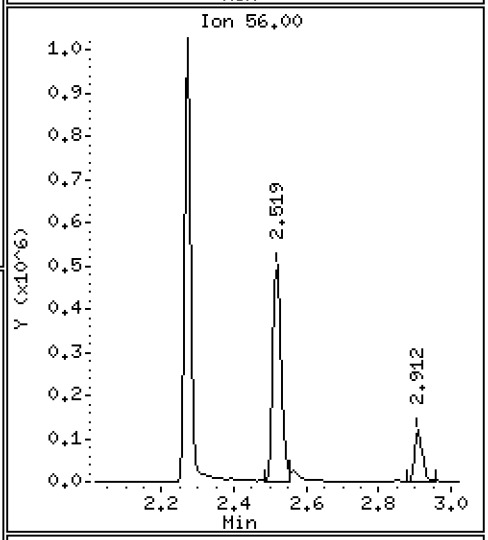


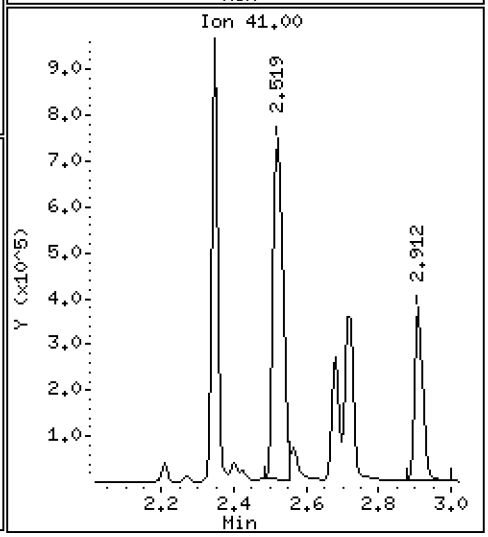












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 30

Date : 25-OCT-2016 01:14

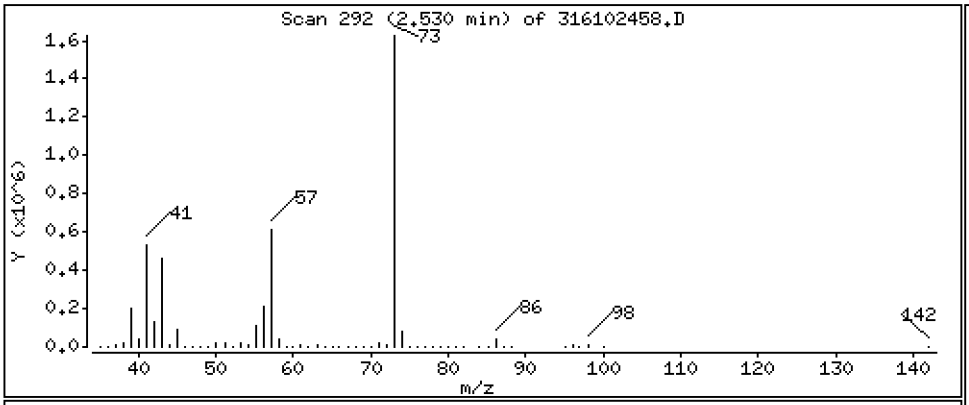
Client ID: Instrument: ms03.i

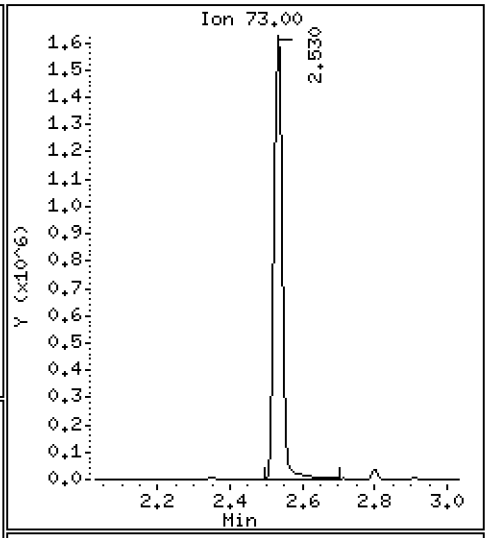
Sample Info: 1238;;1;1;5;;;

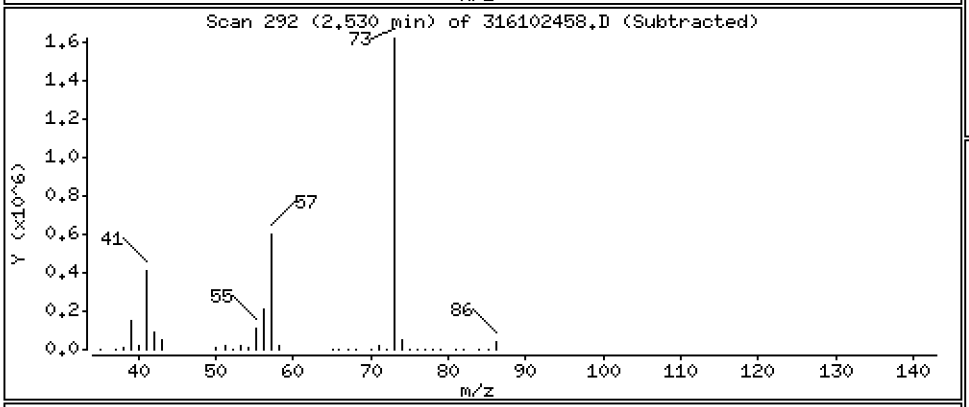
Purge Volume: 5.0 Operator: CJG

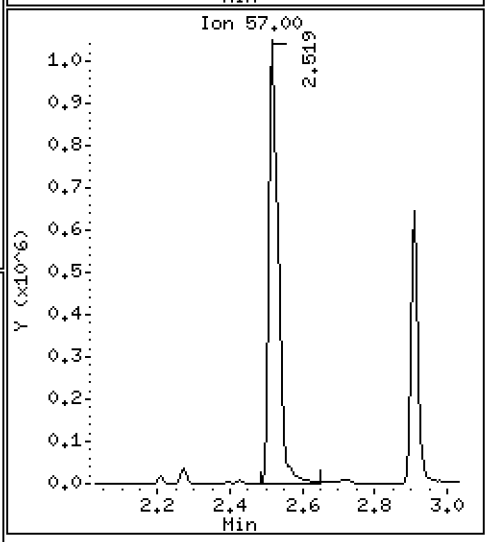
Column phase: DB-VRX Column diameter: 0.25

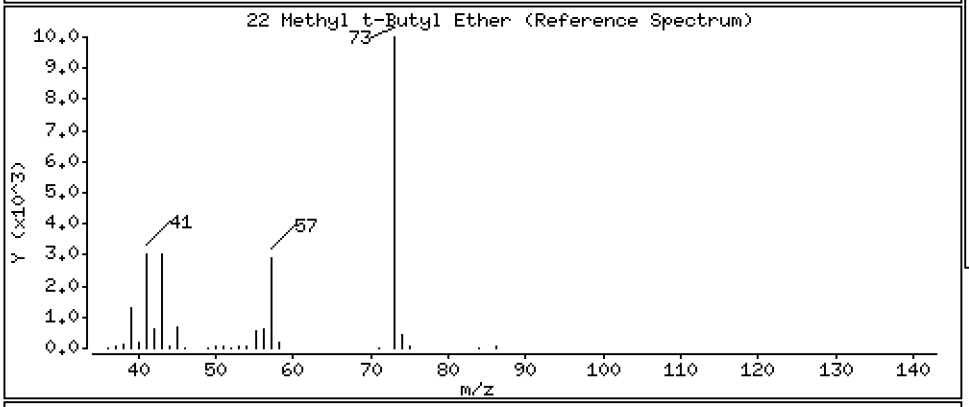
22 Methyl t-Butyl Ether Concentration: 100.084 ug/L

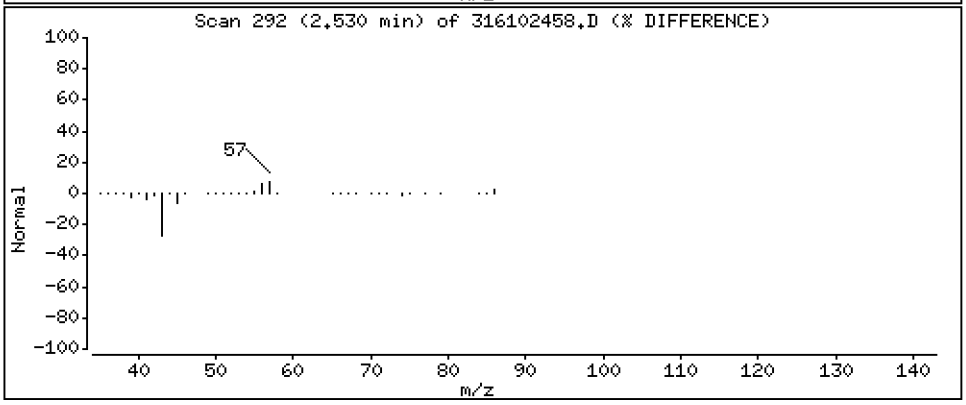












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 31

Date : 25-OCT-2016 01:14

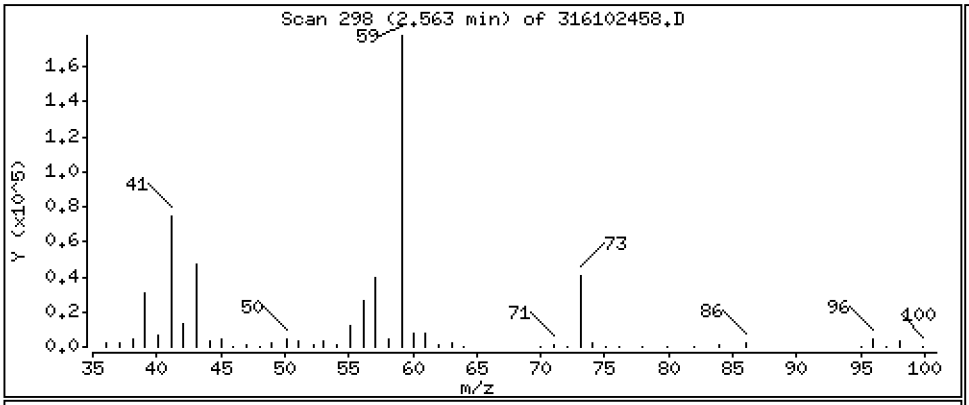
Client ID: Instrument: ms03.i

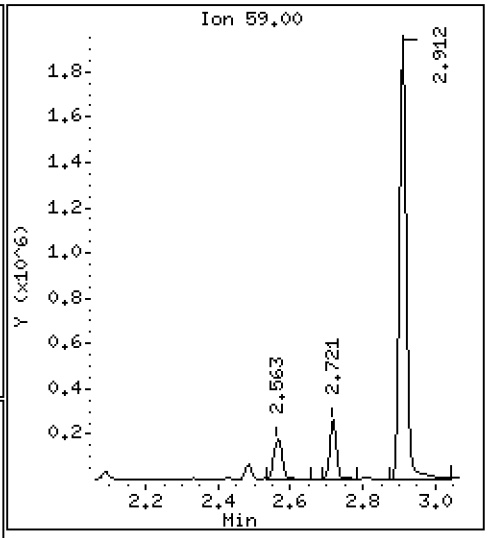
Sample Info: 1238;;1;1;5;;;

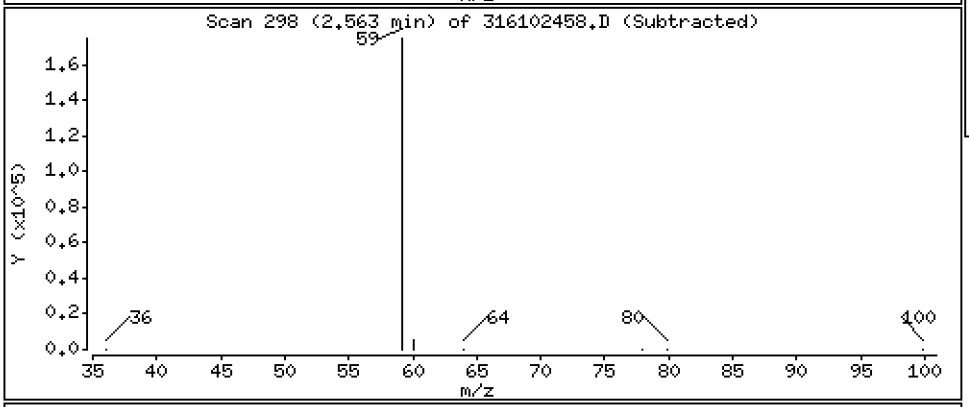
Purge Volume: 5.0 Operator: CJG

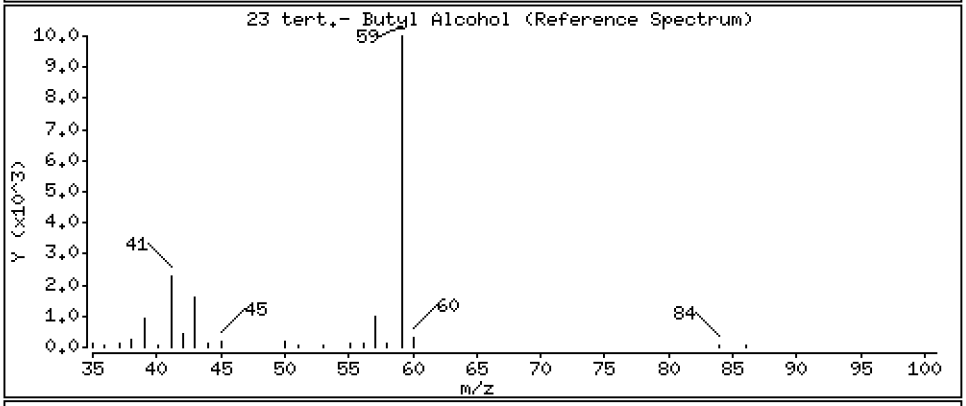
Column phase: DB-VRX Column diameter: 0.25

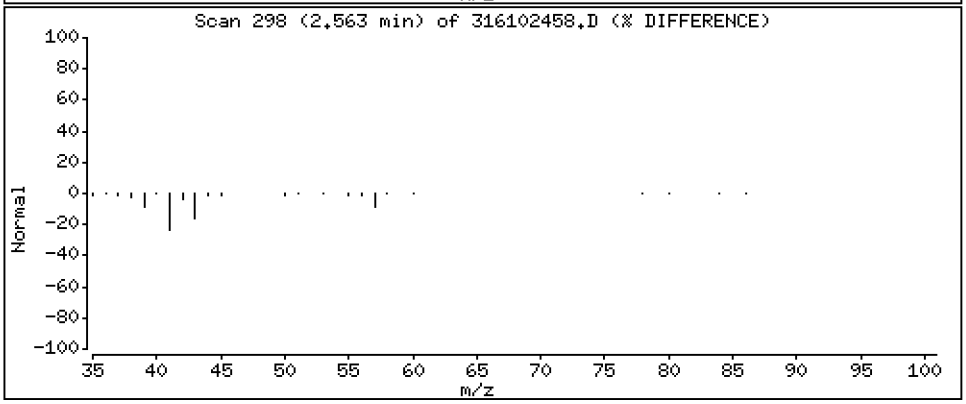
23 tert.- Butyl Alcohol Concentration: 504.132 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 32

Date : 25-OCT-2016 01:14

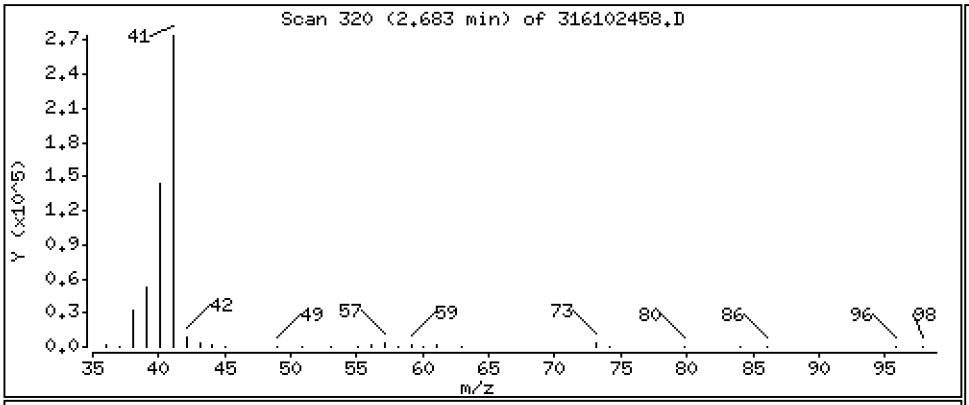
Client ID: Instrument: ms03.i

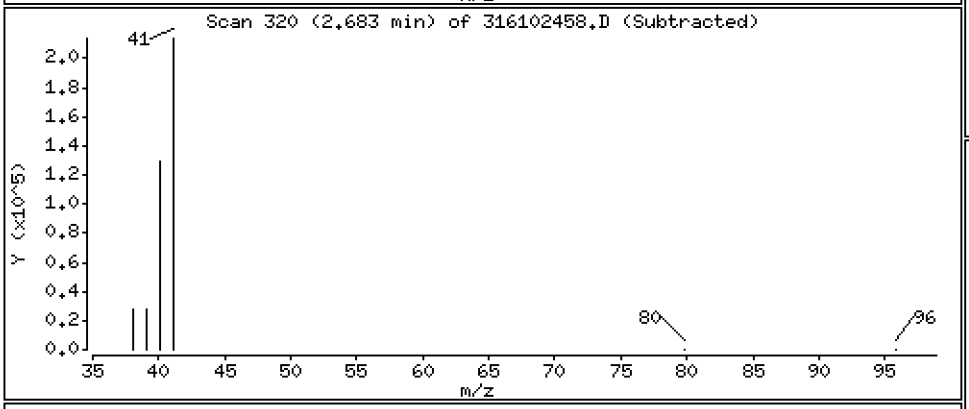
Sample Info: 1238;;1;1;5;;;

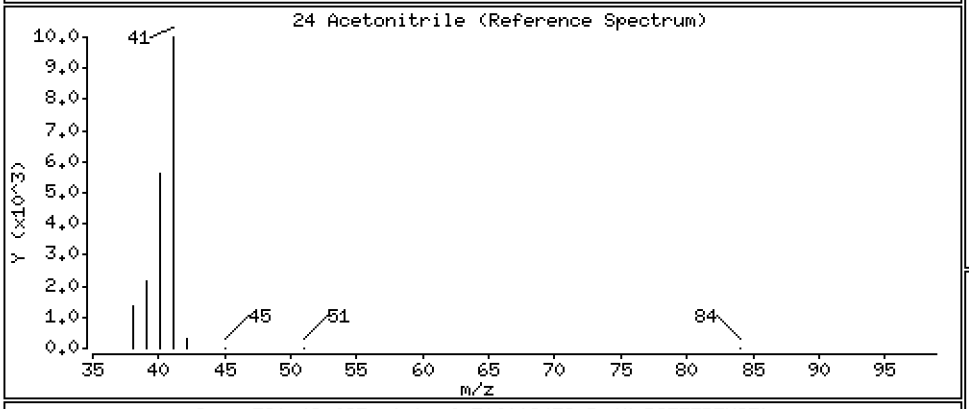
Purge Volume: 5.0 Operator: CJG

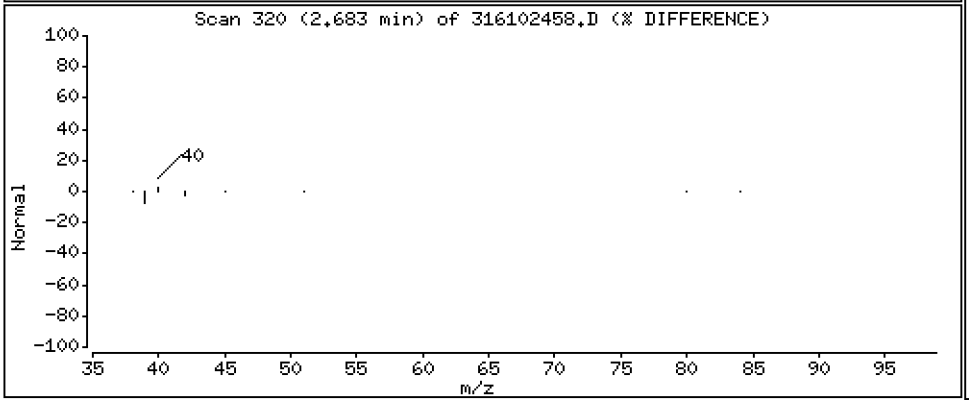
Column phase: DB-VRX Column diameter: 0.25

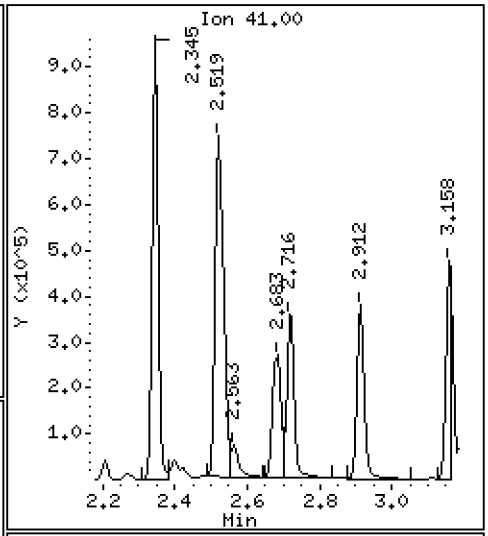
24 Acetonitrile Concentration: 495.610 ug/L

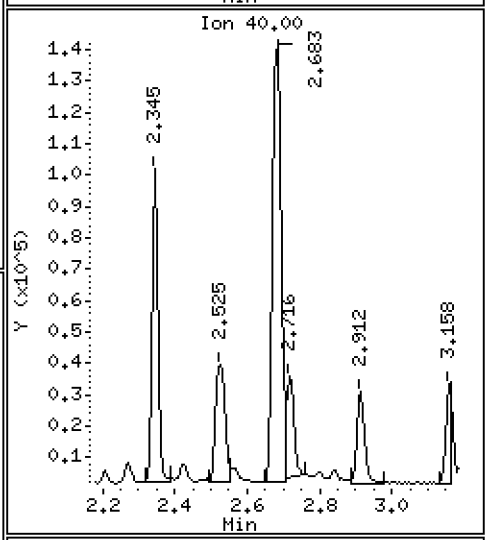


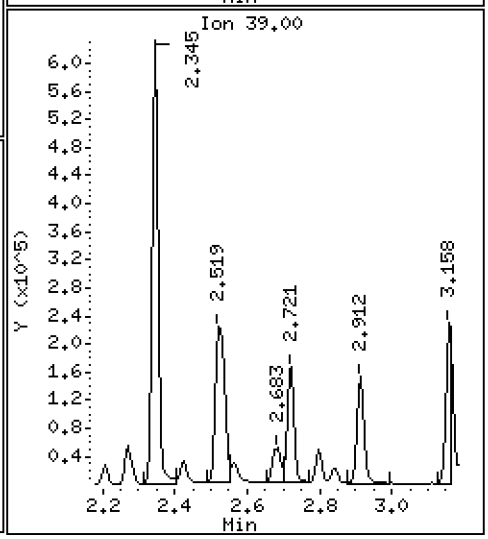












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 33

Date : 25-OCT-2016 01:14

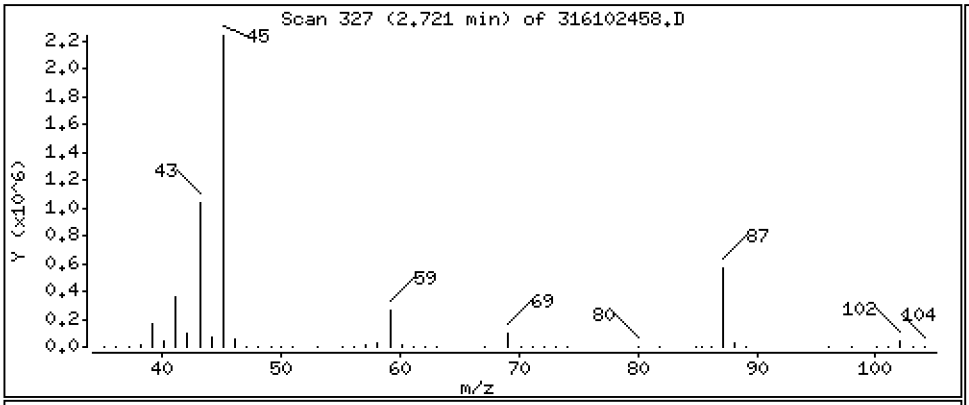
Client ID: Instrument: ms03.i

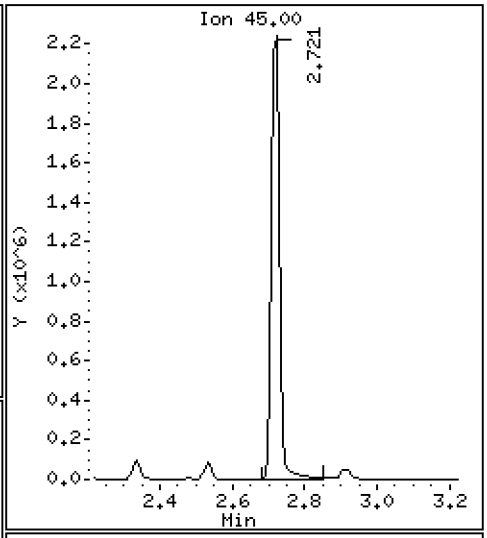
Sample Info: 1238;;1;1;5;;;

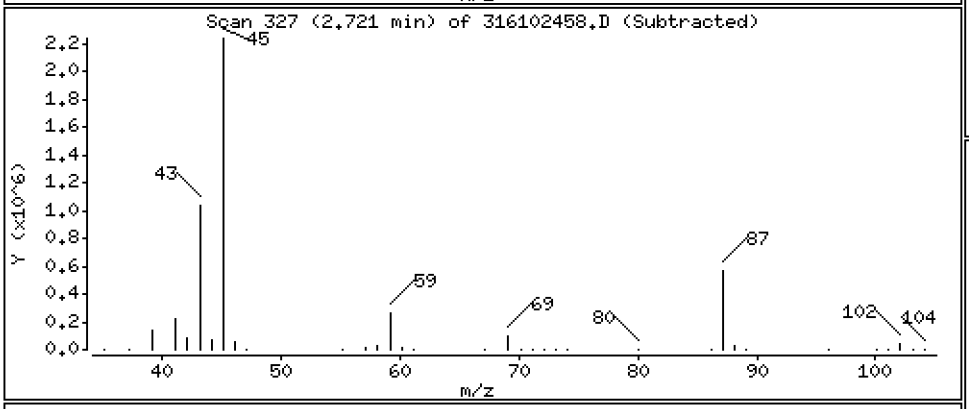
Purge Volume: 5.0 Operator: CJG

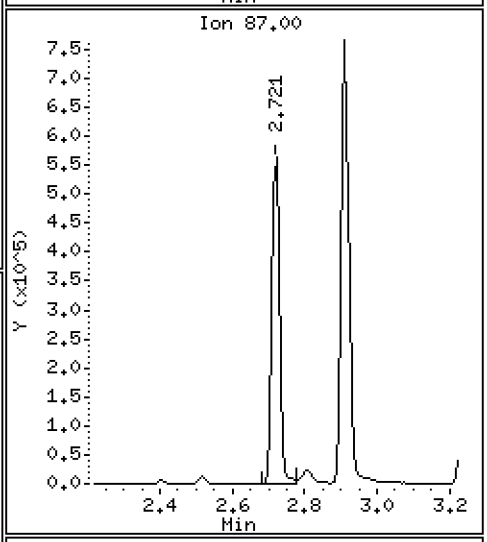
Column phase: DB-VRX Column diameter: 0.25

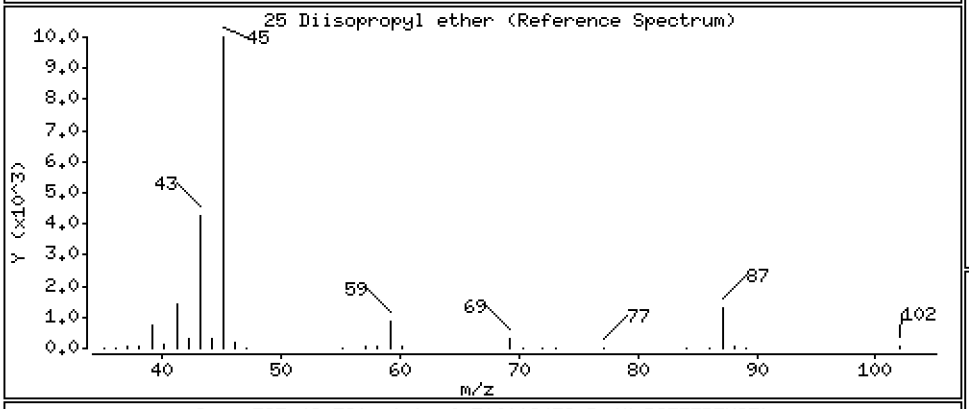
25 Diisopropyl ether Concentration: 100.507 ug/L

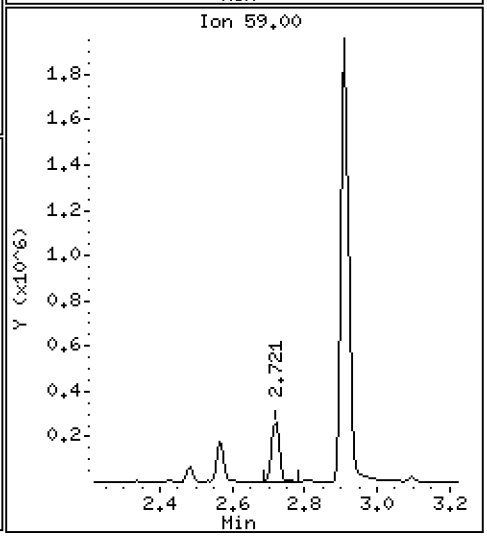


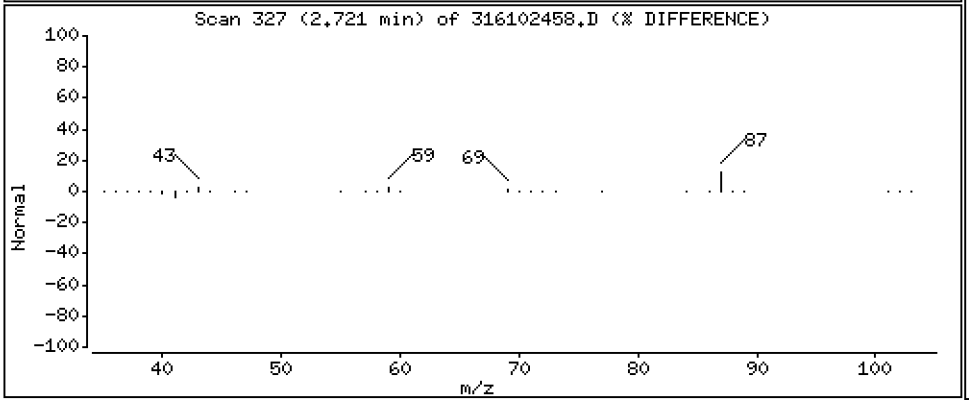












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 34

Date : 25-OCT-2016 01:14

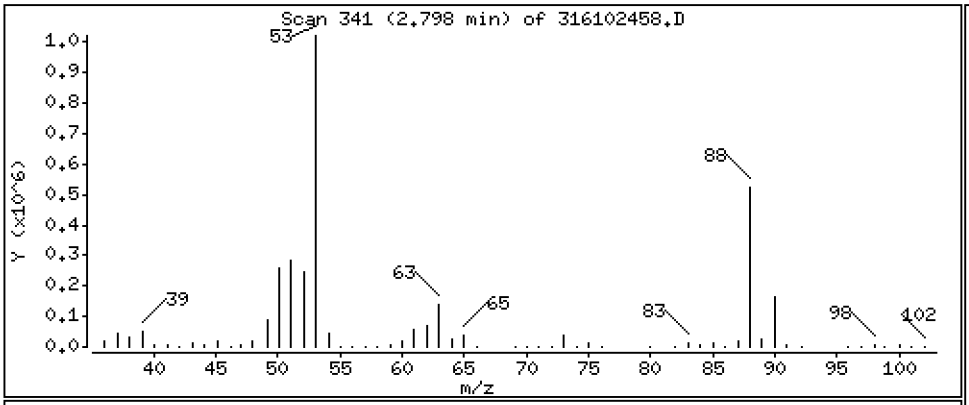
Client ID: Instrument: ms03.i

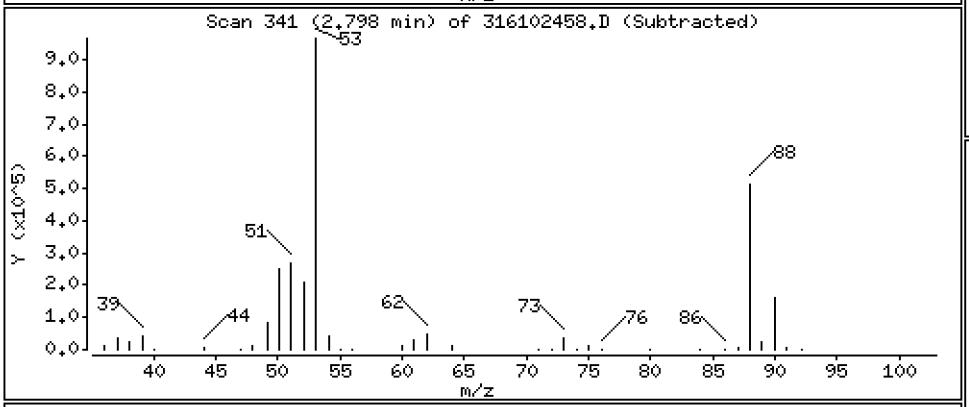
Sample Info: 1238;;1;1;5;;;

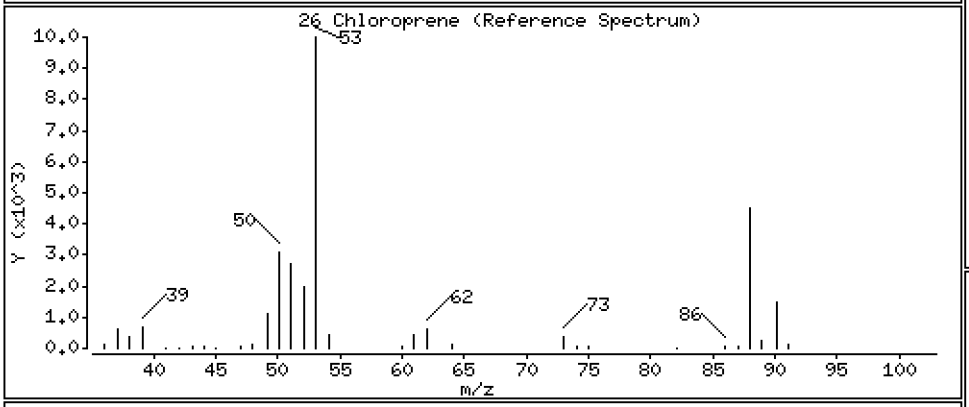
Purge Volume: 5.0 Operator: CJG

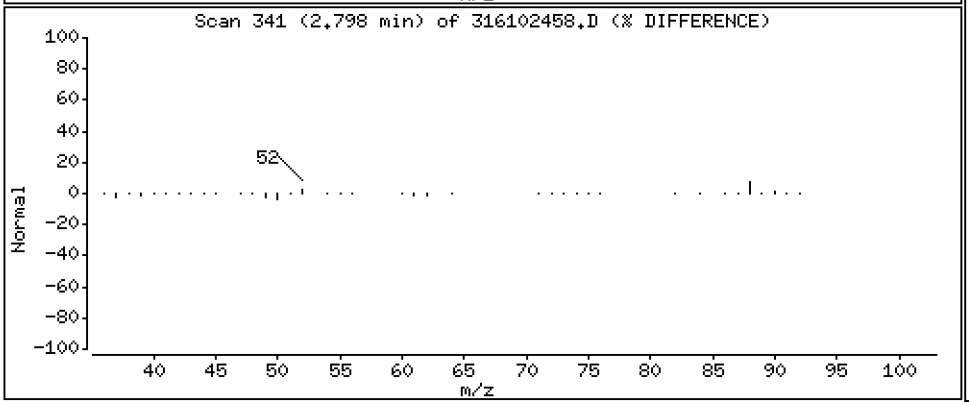
Column phase: DB-VRX Column diameter: 0.25

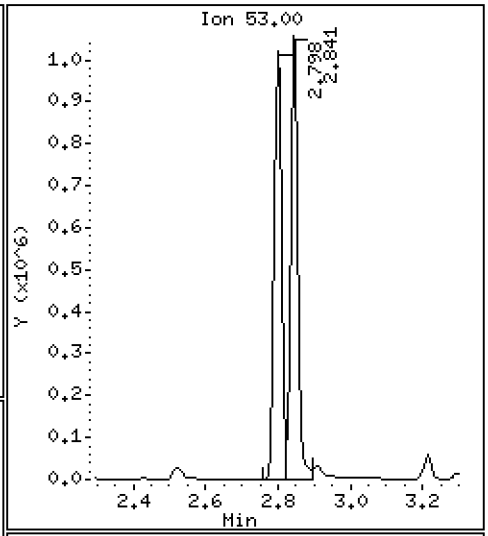
26 Chloroprene Concentration: 99.9955 ug/L

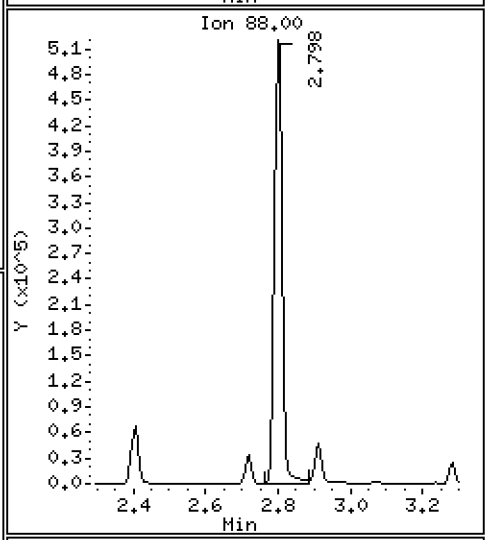


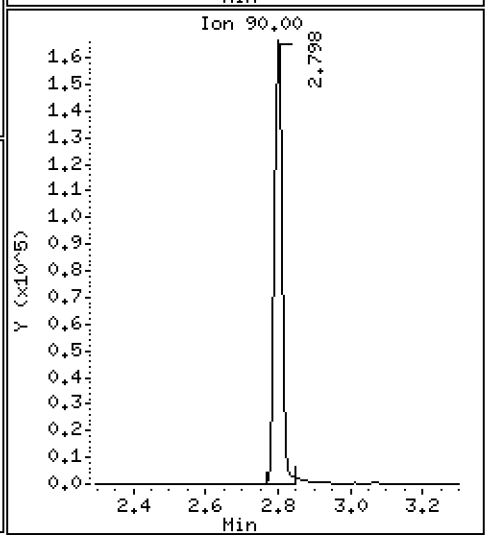












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 35

Date : 25-OCT-2016 01:14

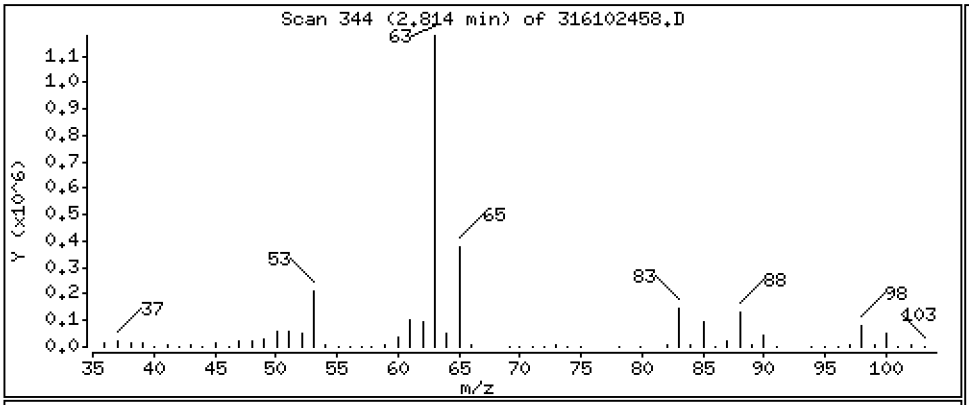
Client ID: Instrument: ms03.i

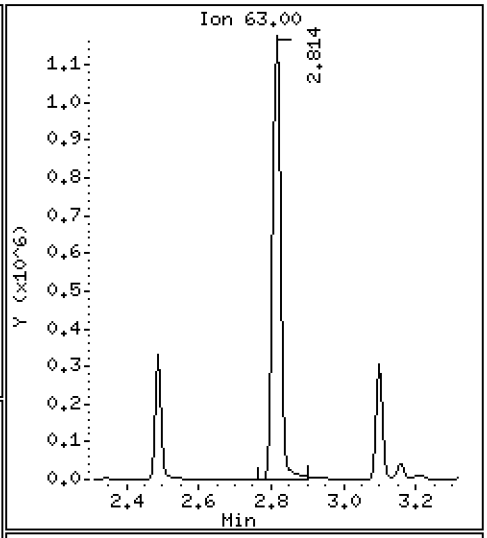
Sample Info: 1238;;1;1;5;;;

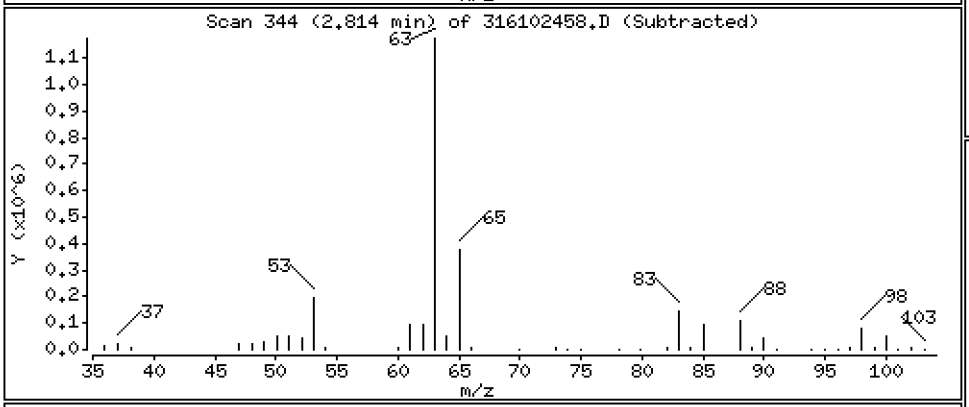
Purge Volume: 5.0 Operator: CJG

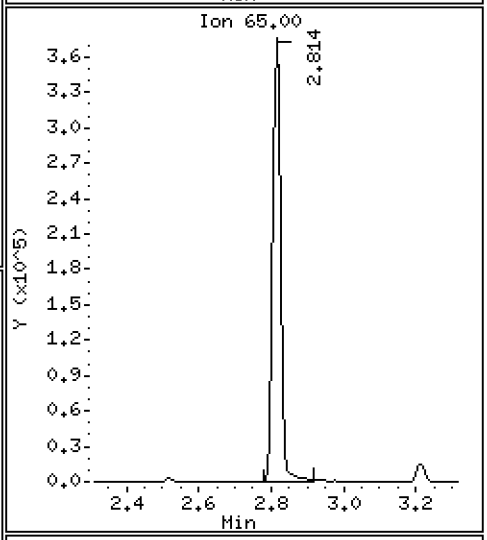
Column phase: DB-VRX Column diameter: 0.25

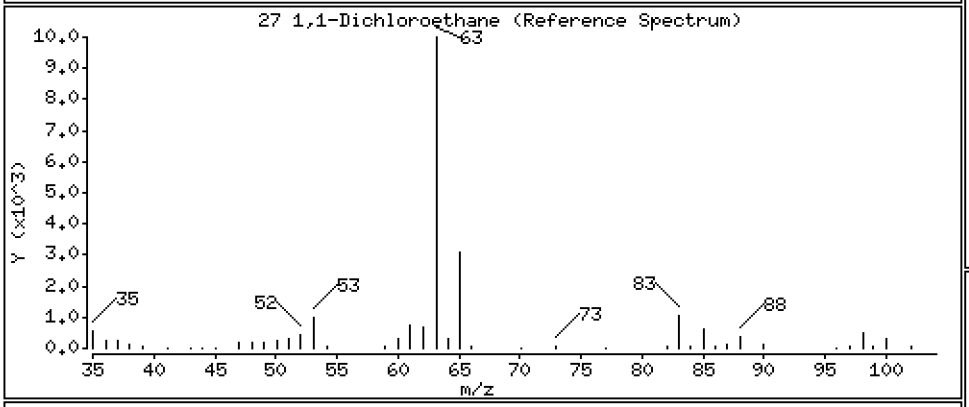
27 1,1-Dichloroethane Concentration: 99.5155 ug/L

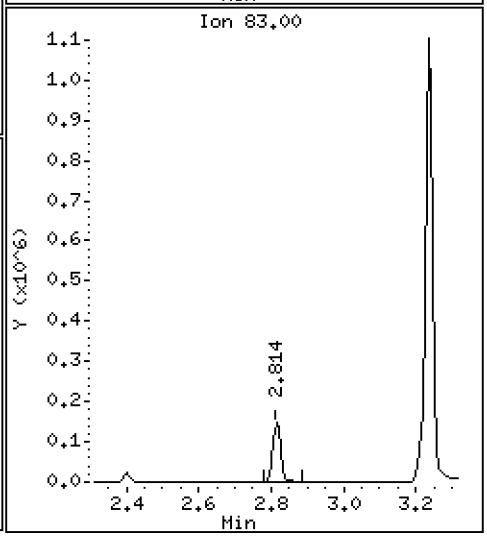


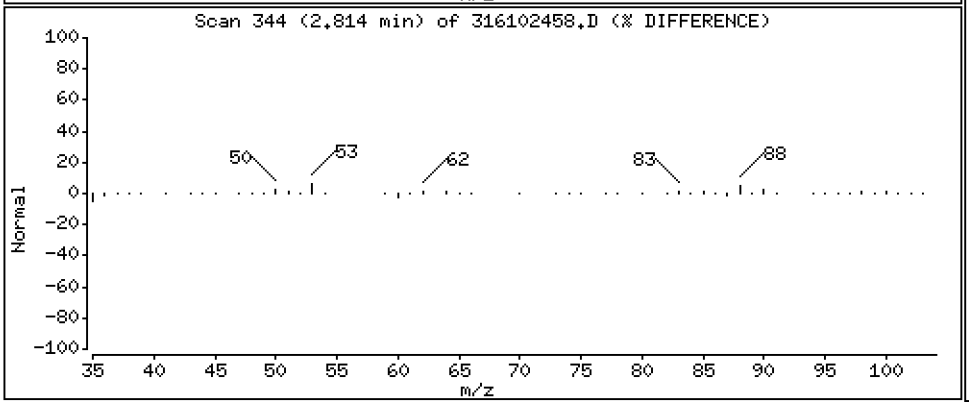












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 36

Date : 25-OCT-2016 01:14

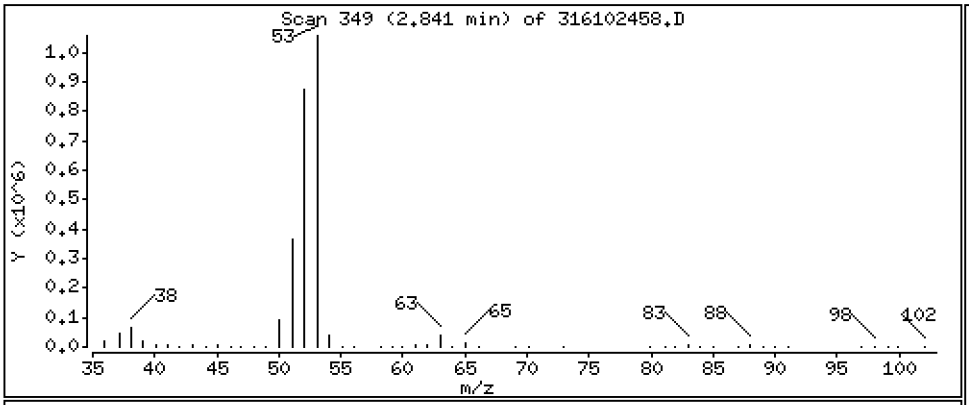
Client ID: Instrument: ms03.i

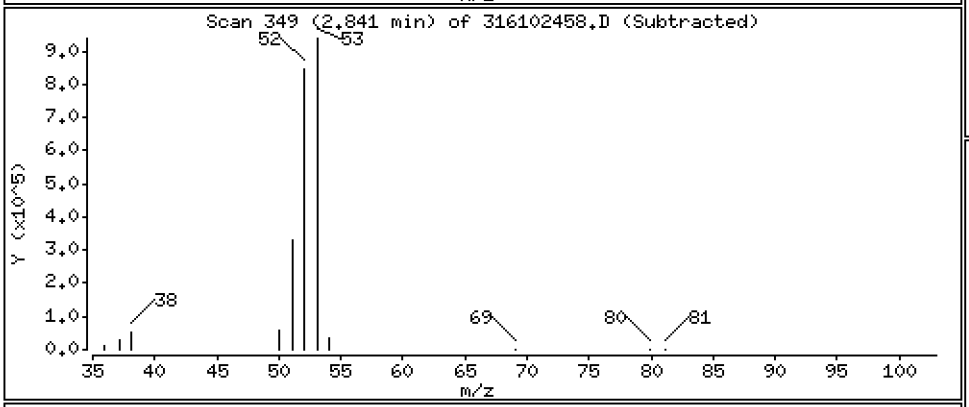
Sample Info: 1238;;1;1;5;;;

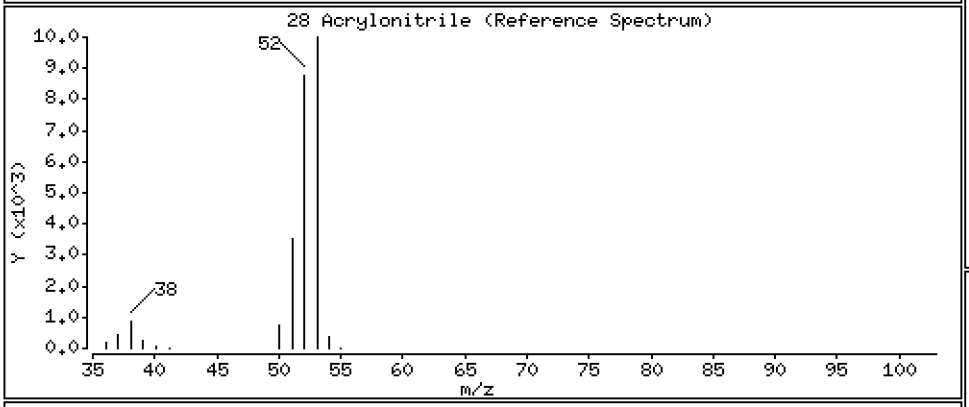
Purge Volume: 5.0 Operator: CJG

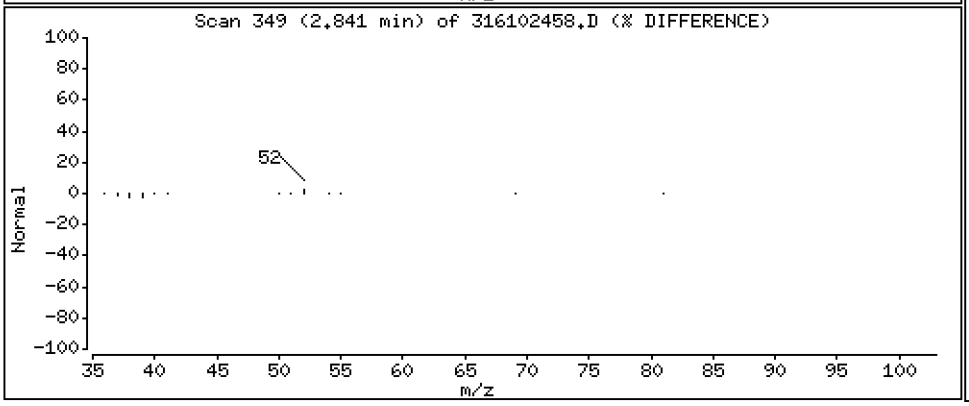
Column phase: DB-VRX Column diameter: 0.25

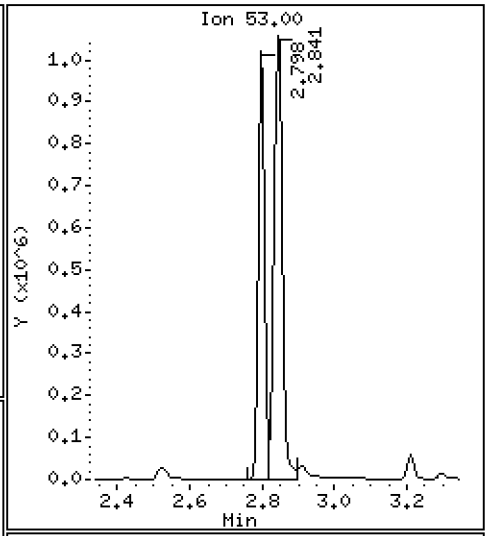
28 Acrylonitrile Concentration: 500.938 ug/L

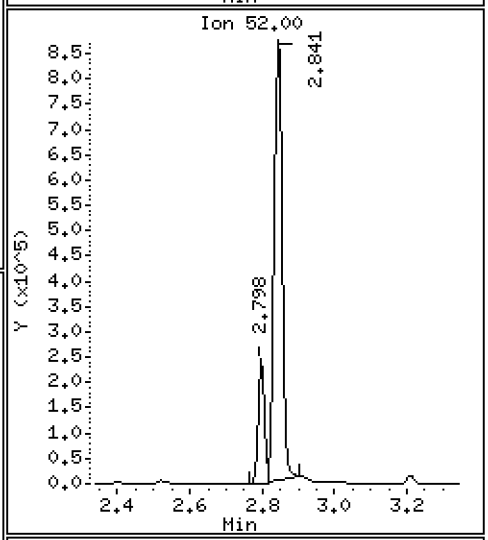


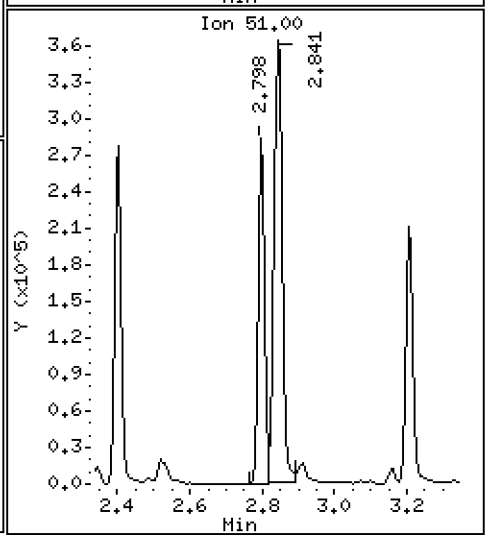












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 37

Date : 25-OCT-2016 01:14

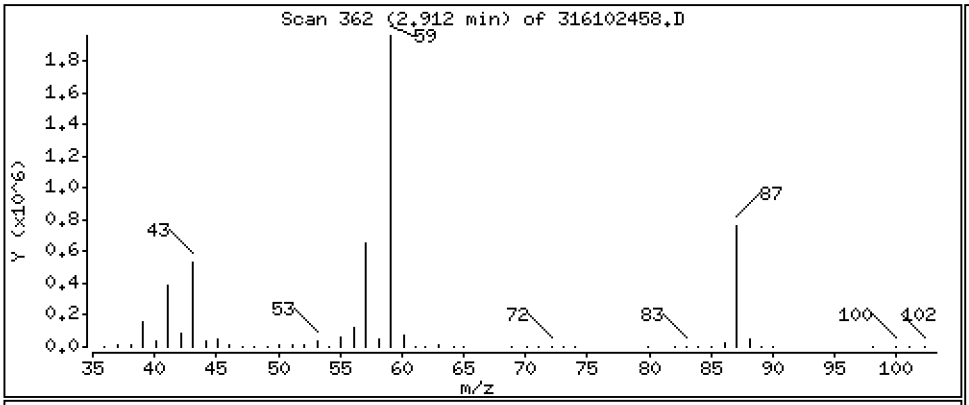
Client ID: Instrument: ms03.i

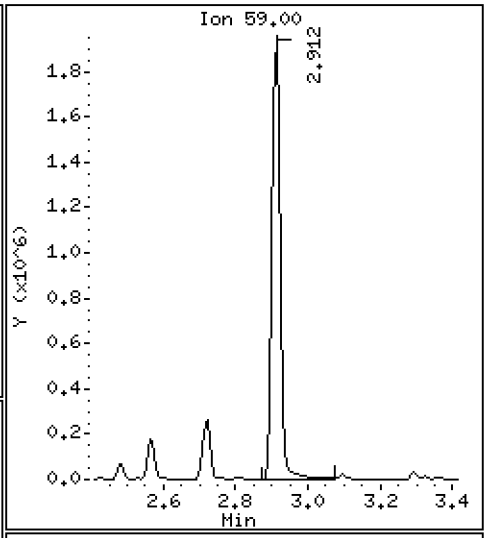
Sample Info: 1238;;1;1;5;;;

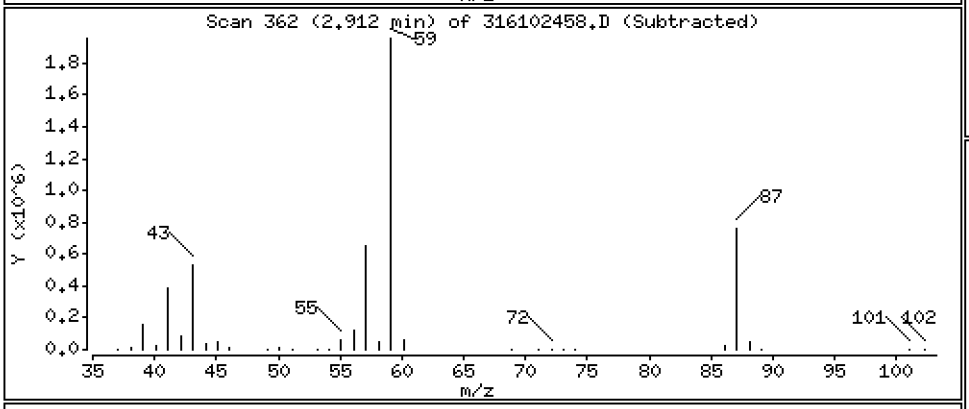
Purge Volume: 5.0 Operator: CJG

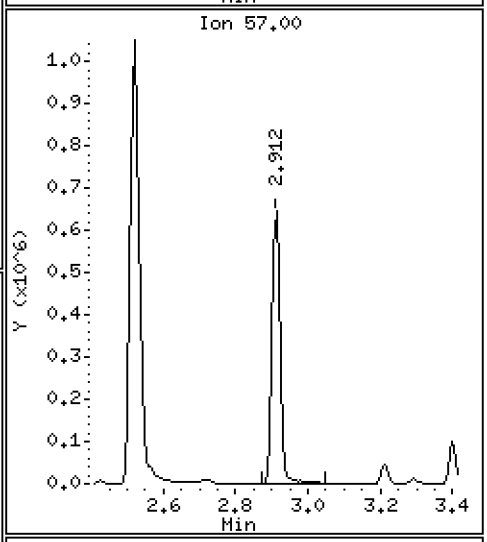
Column phase: DB-VRX Column diameter: 0.25

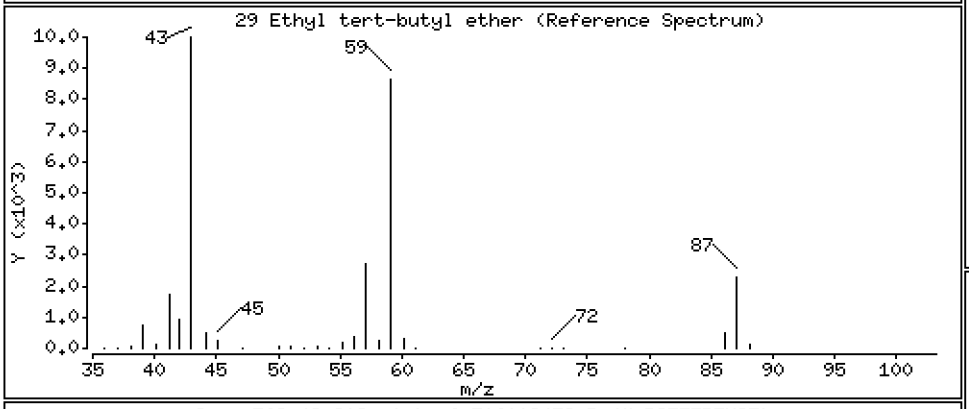
29 Ethyl tert-butyl ether Concentration: 100.885 ug/L

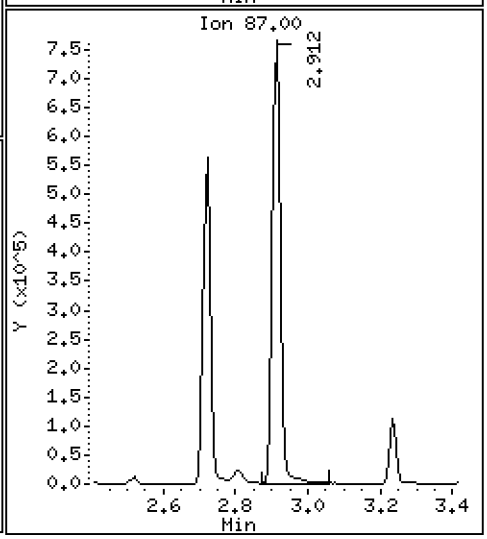


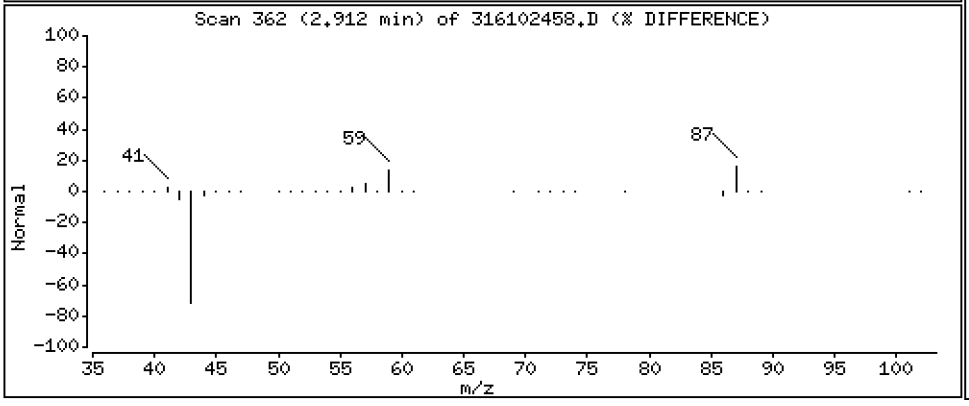












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 38

Date : 25-OCT-2016 01:14

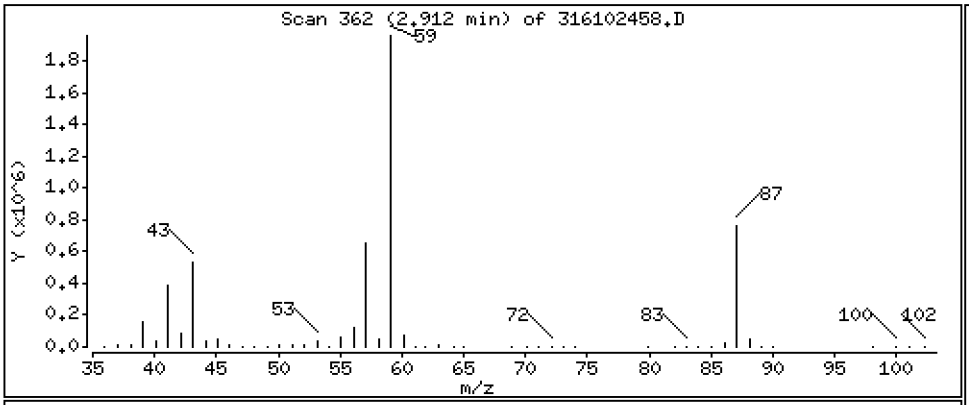
Client ID: Instrument: ms03.i

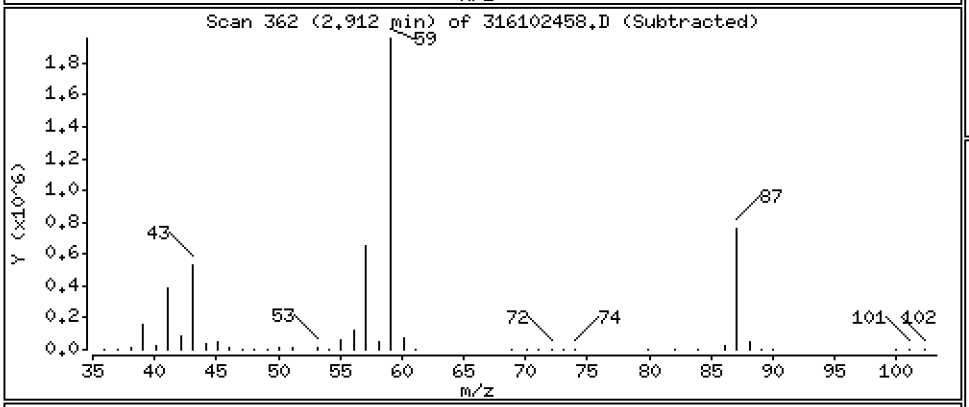
Sample Info: 1238;;1;1;5;;;

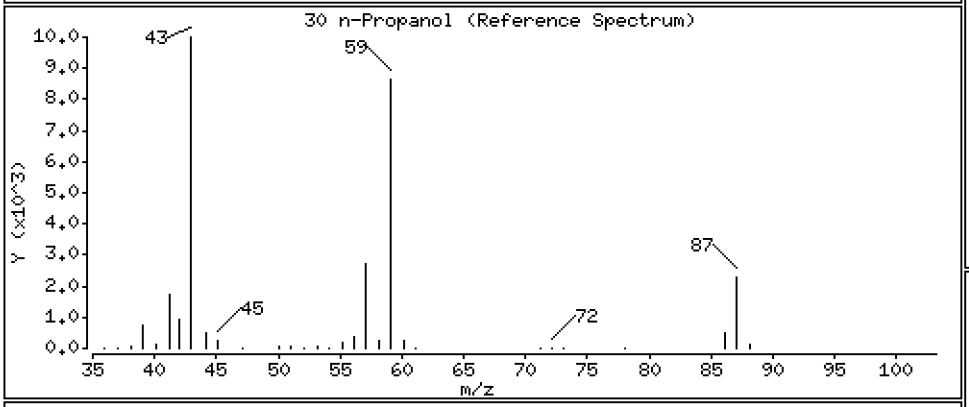
Purge Volume: 5.0 Operator: CJG

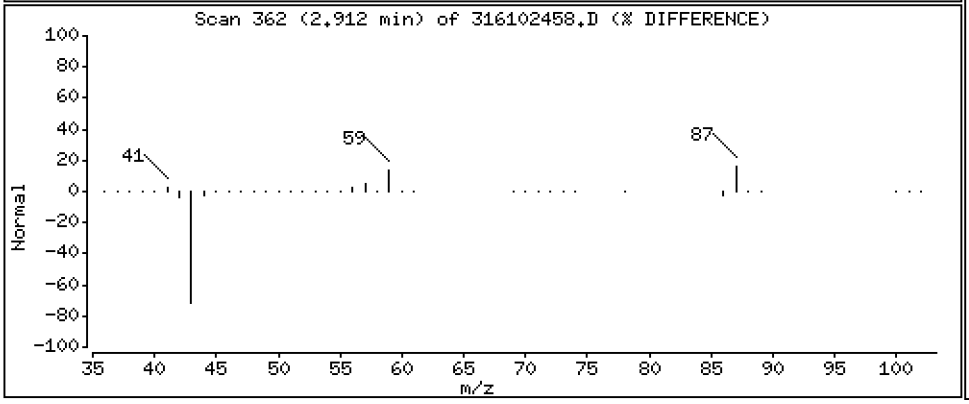
Column phase: DB-VRX Column diameter: 0.25

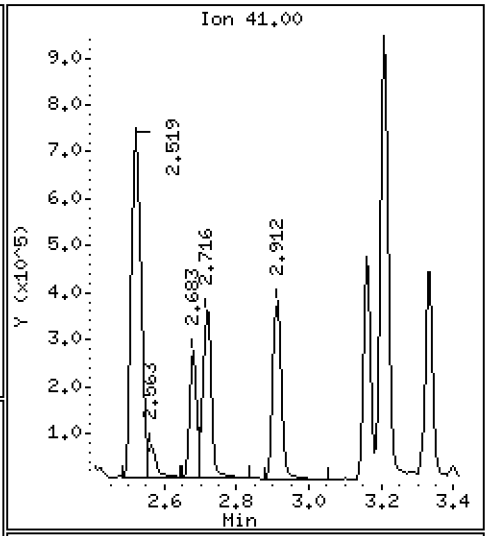
30 n-Propanol Concentration: 999.591 ug/L

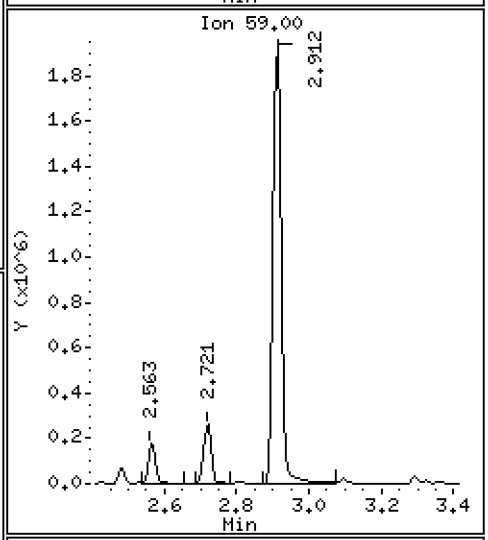


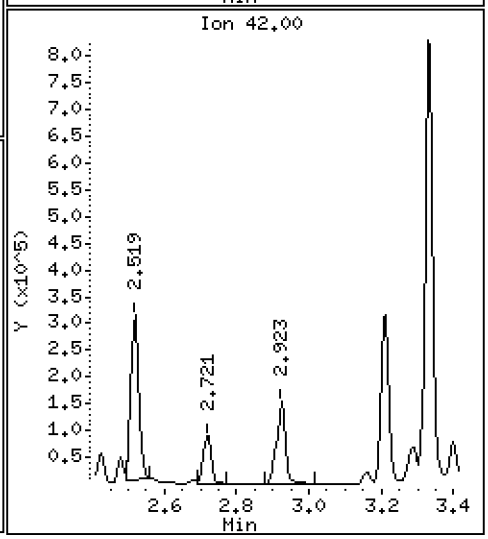












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 39

Date : 25-OCT-2016 01:14

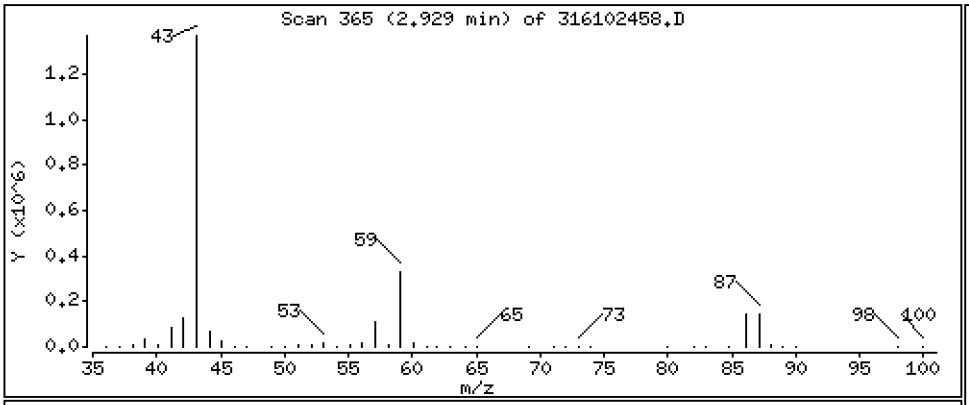
Client ID: Instrument: ms03.i

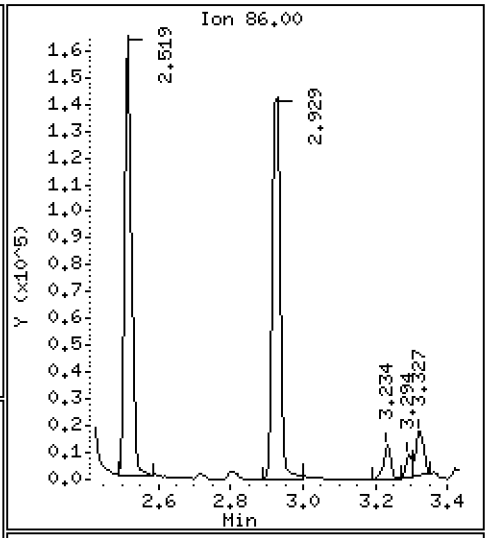
Sample Info: 1238;;1;1;5;;;

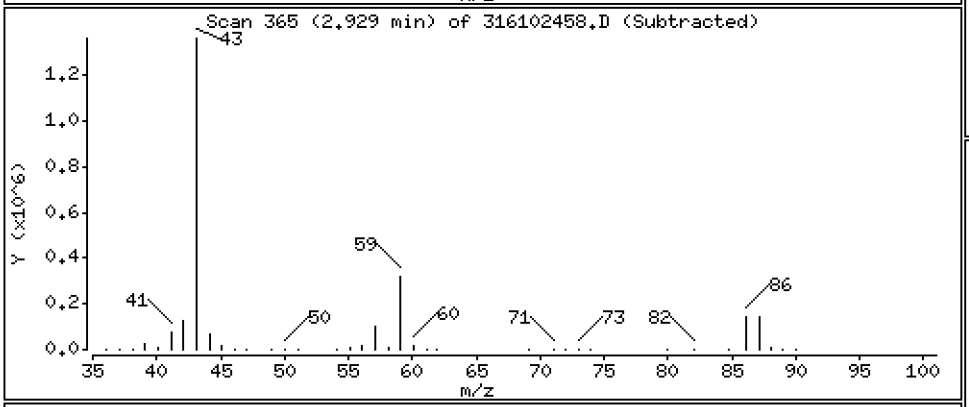
Purge Volume: 5.0 Operator: CJG

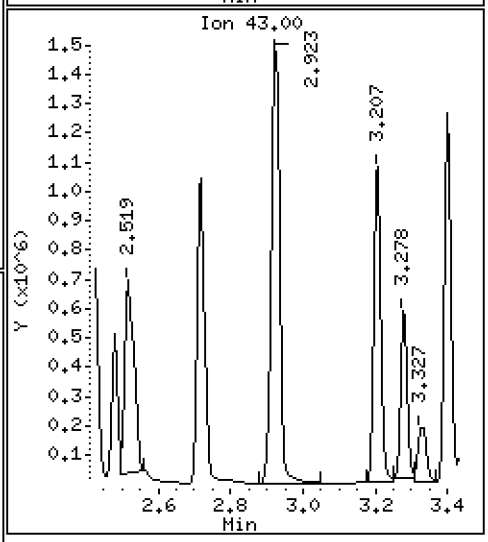
Column phase: DB-VRX Column diameter: 0.25

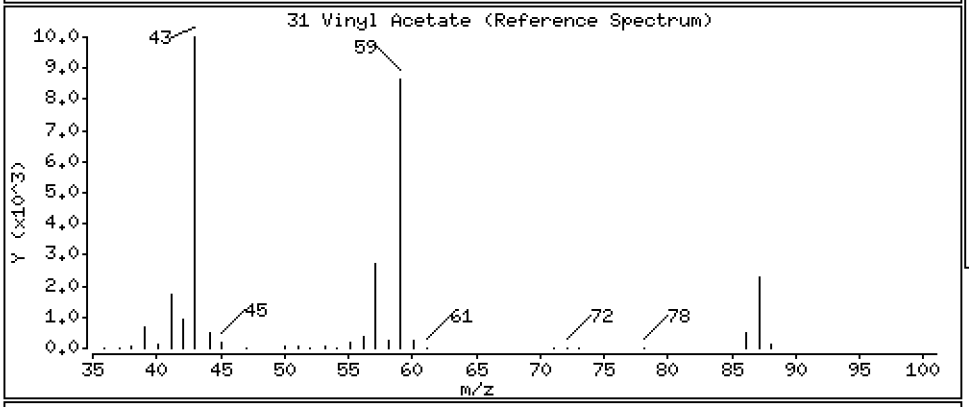
31 Vinyl Acetate Concentration: 100.821 ug/L

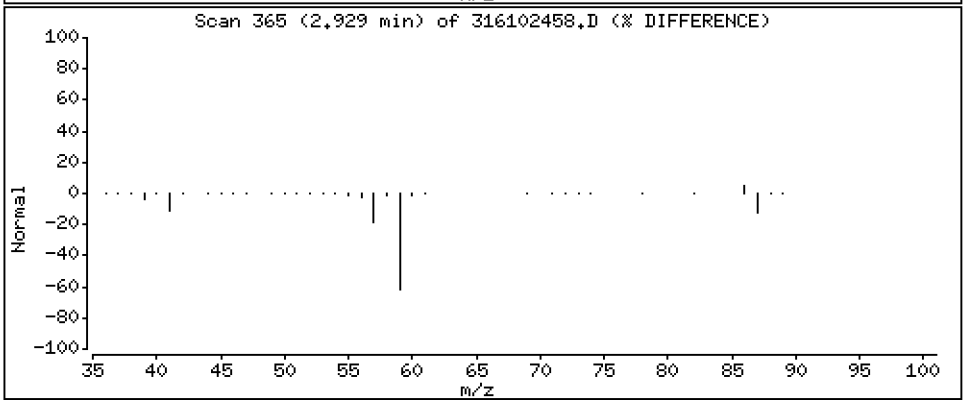












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 40

Date : 25-OCT-2016 01:14

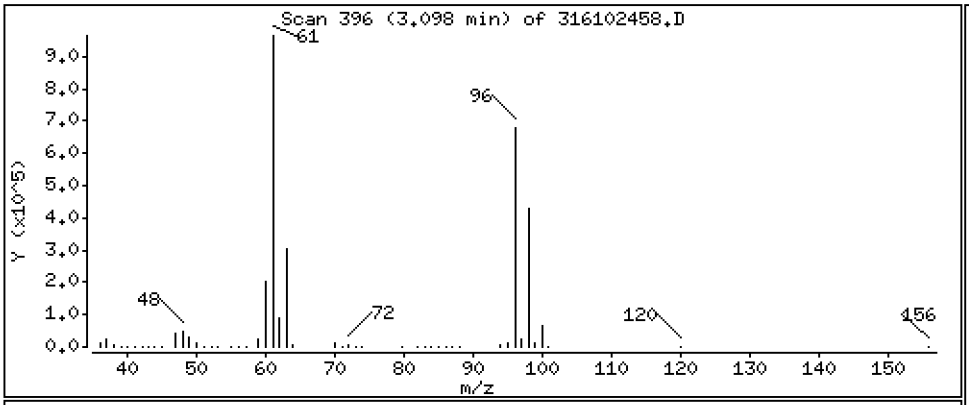
Client ID: Instrument: ms03.i

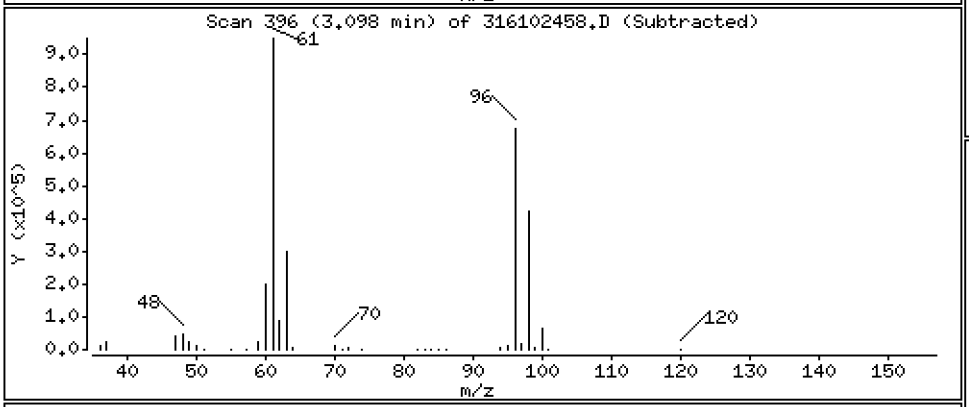
Sample Info: 1238;;1;1;5;;;

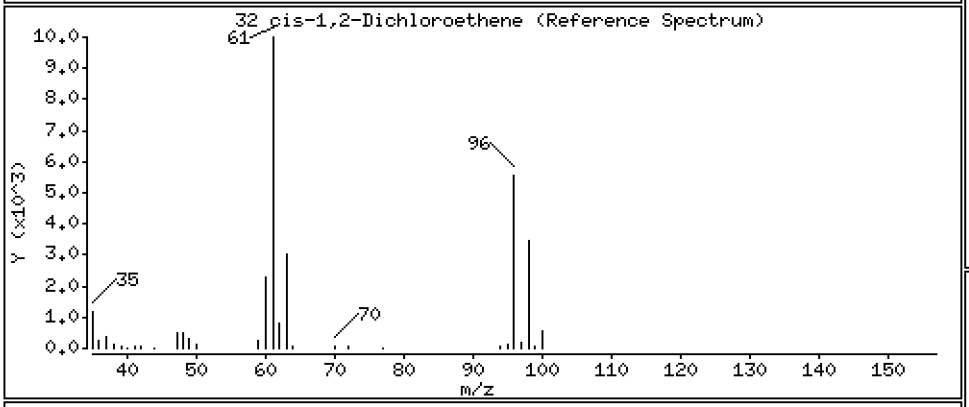
Purge Volume: 5.0 Operator: CJG

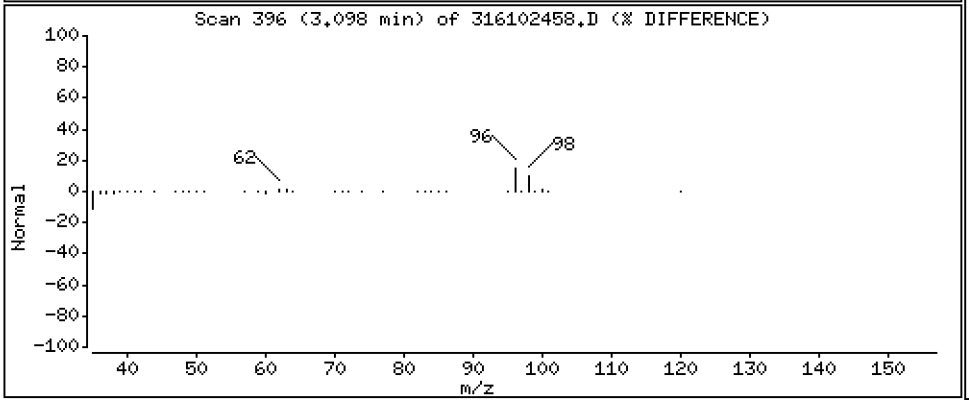
Column phase: DB-VRX Column diameter: 0.25

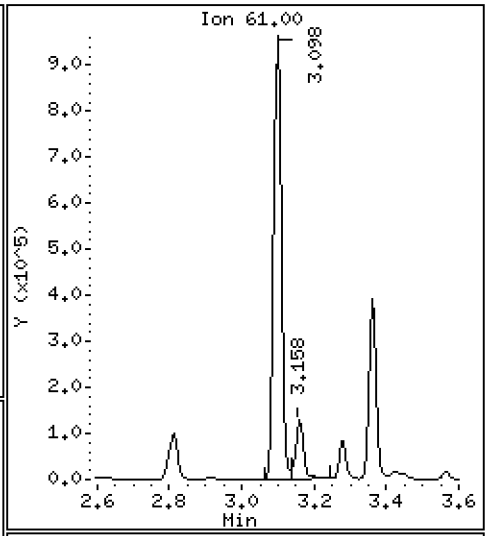
32 cis-1,2-Dichloroethene Concentration: 99.8989 ug/L

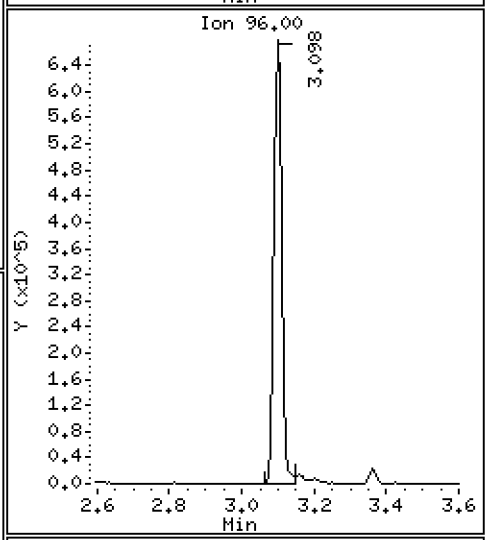


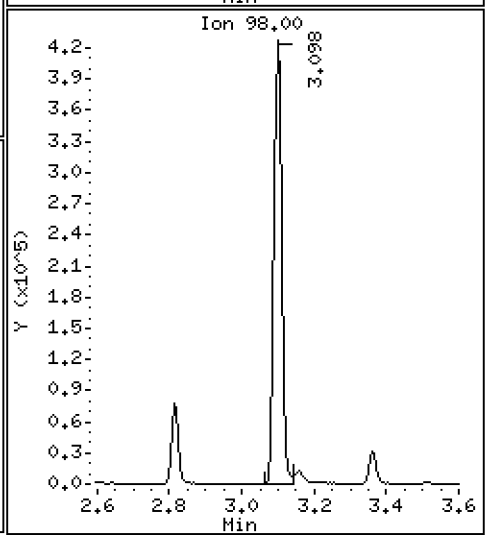












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 41

Date : 25-OCT-2016 01:14

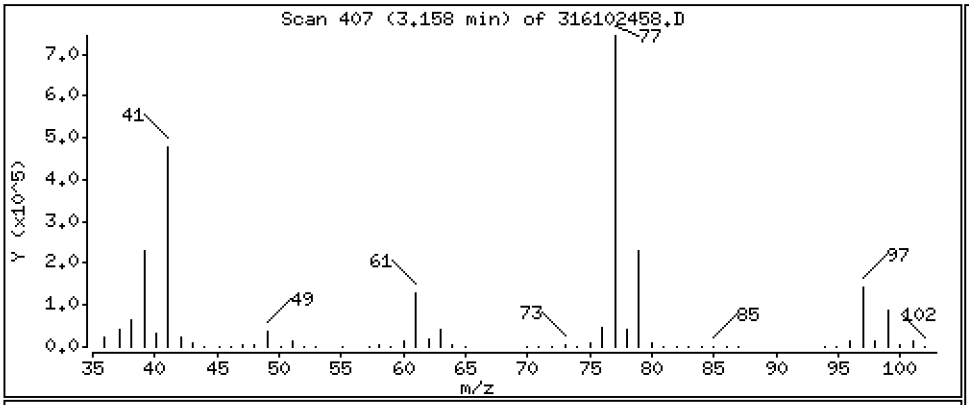
Client ID: Instrument: ms03.i

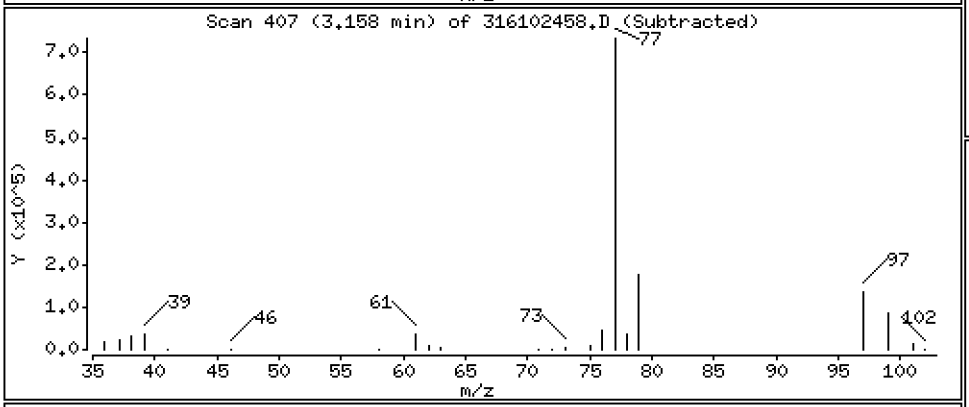
Sample Info: 1238;;1;1;5;;;

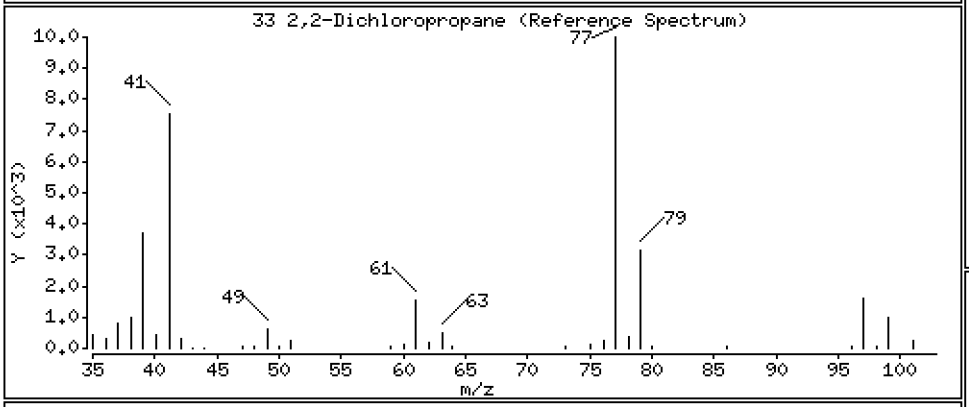
Purge Volume: 5.0 Operator: CJG

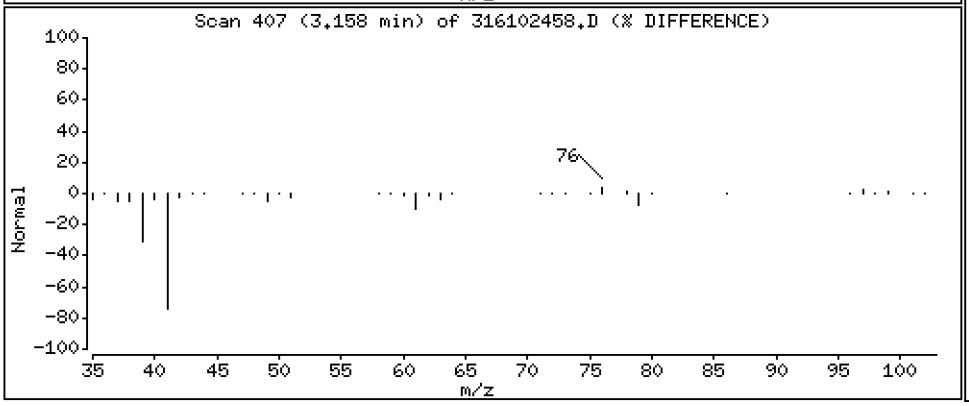
Column phase: DB-VRX Column diameter: 0.25

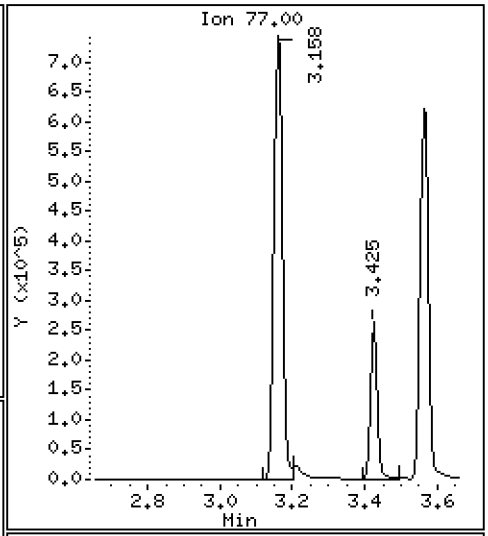
33 2,2-Dichloropropane Concentration: 100.500 ug/L

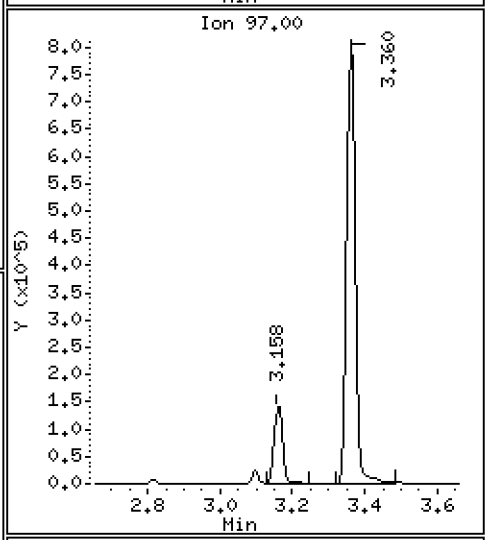


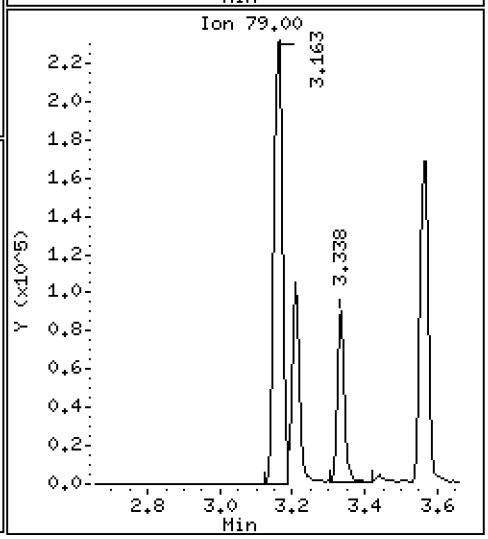












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 42

Date : 25-OCT-2016 01:14

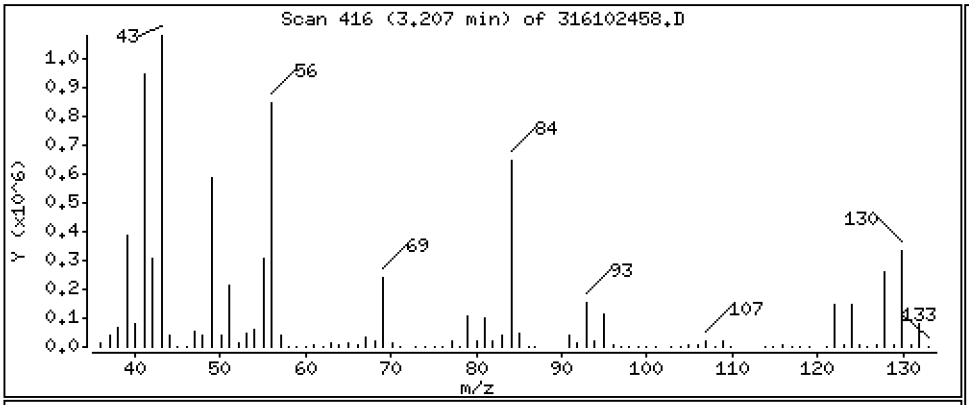
Client ID: Instrument: ms03.i

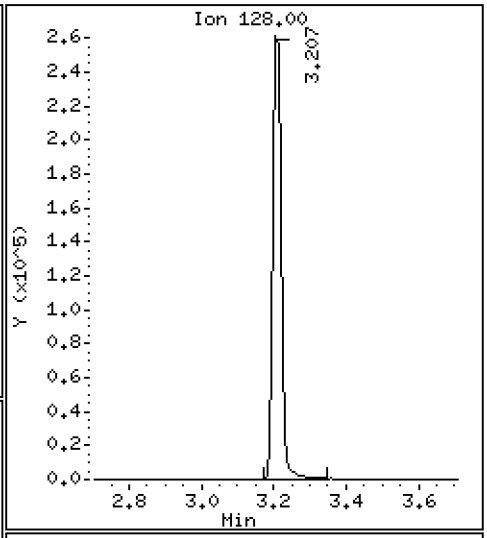
Sample Info: 1238;;1;1;5;;;

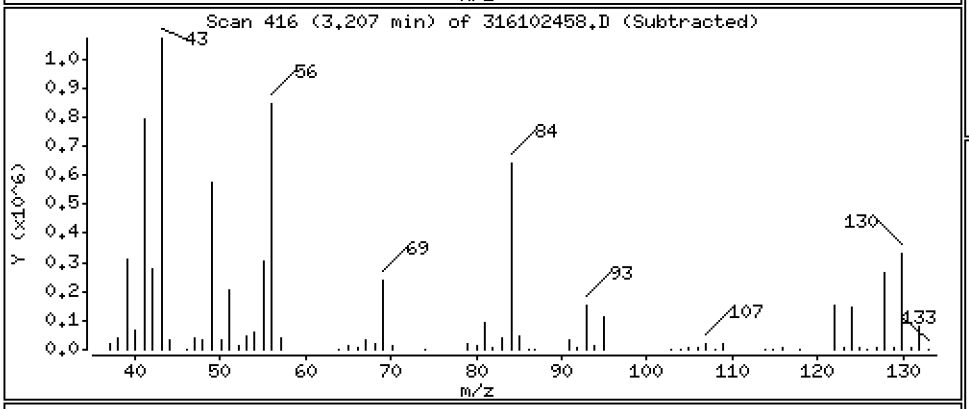
Purge Volume: 5.0 Operator: CJG

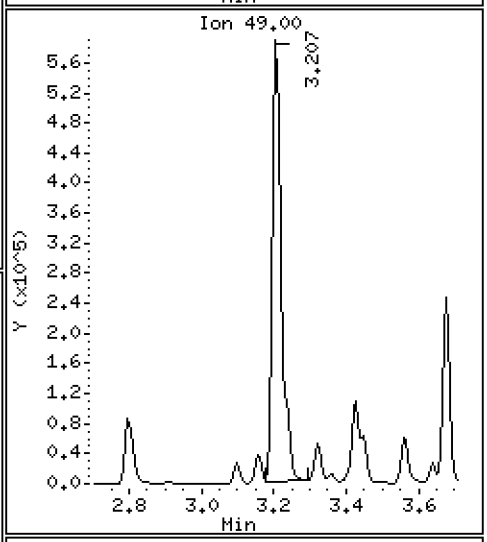
Column phase: DB-VRX Column diameter: 0.25

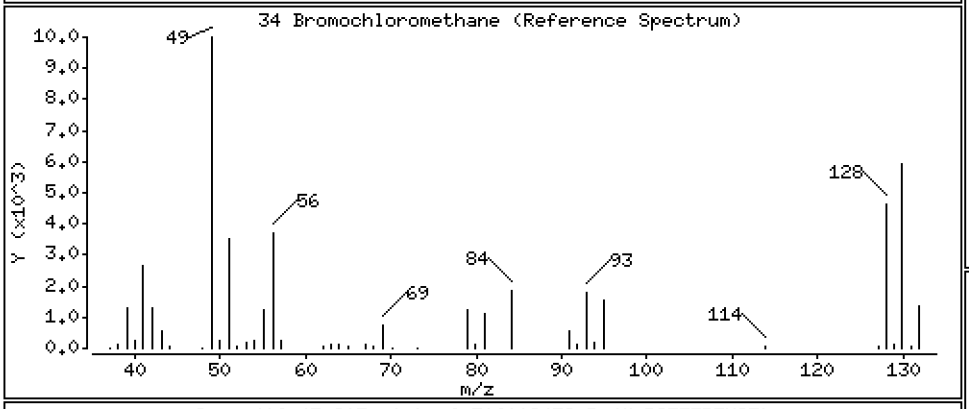
34 Bromochloromethane Concentration: 101.645 ug/L

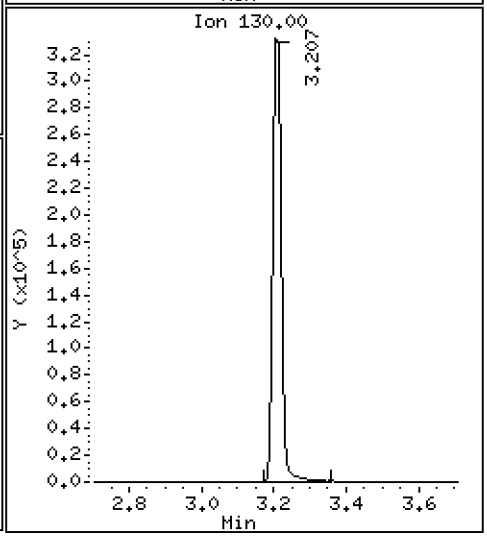


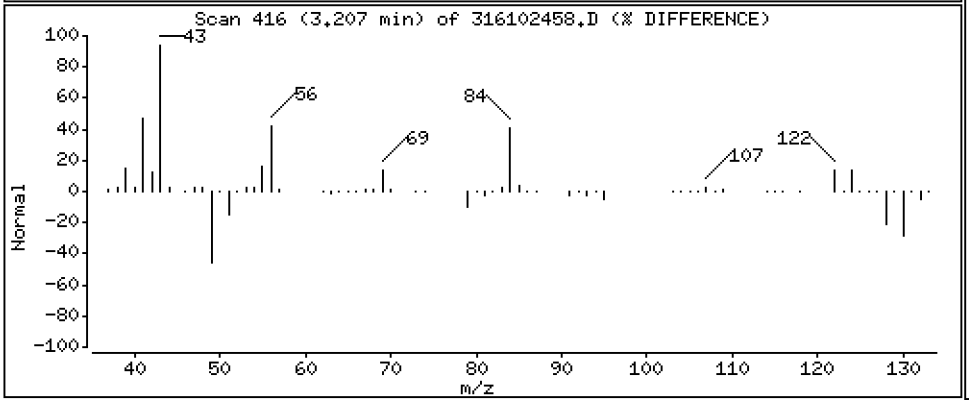












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 43

Date : 25-OCT-2016 01:14

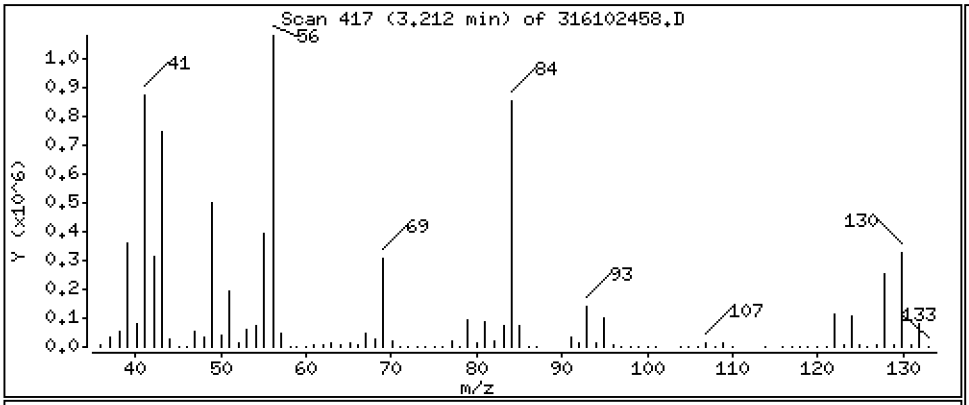
Client ID: Instrument: ms03.i

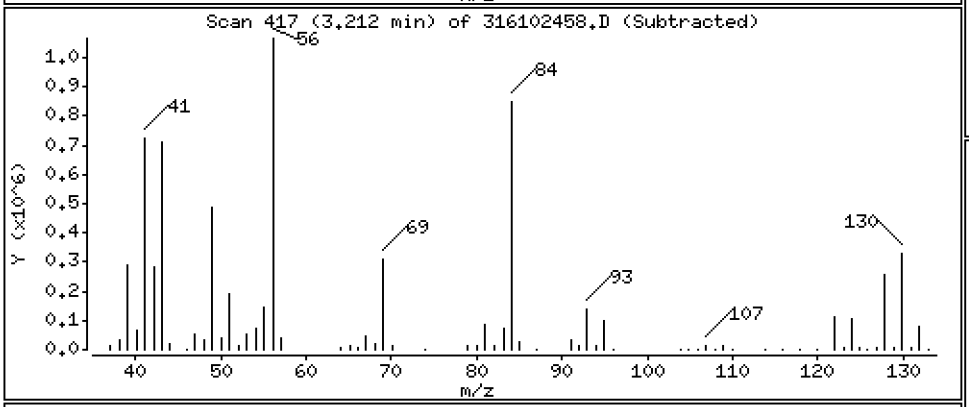
Sample Info: 1238;;1;1;5;;;

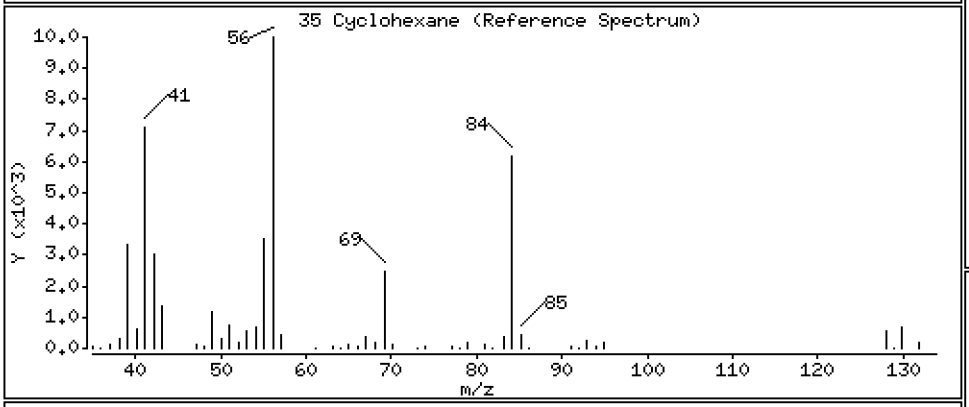
Purge Volume: 5.0 Operator: CJG

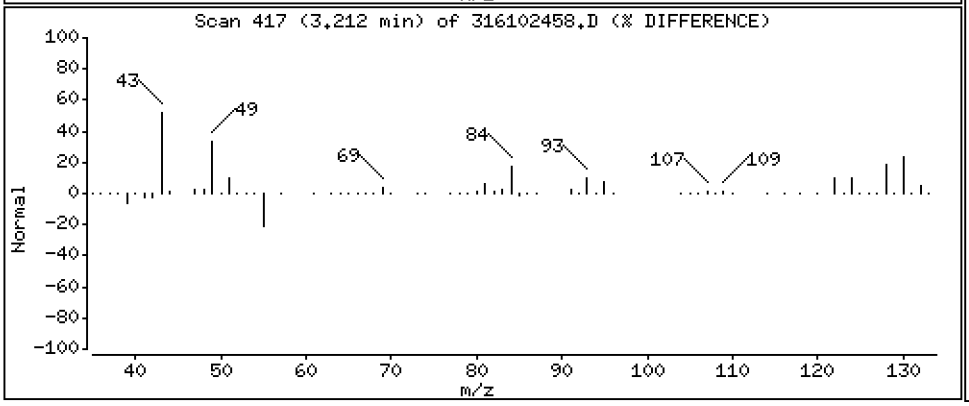
Column phase: DB-VRX Column diameter: 0.25

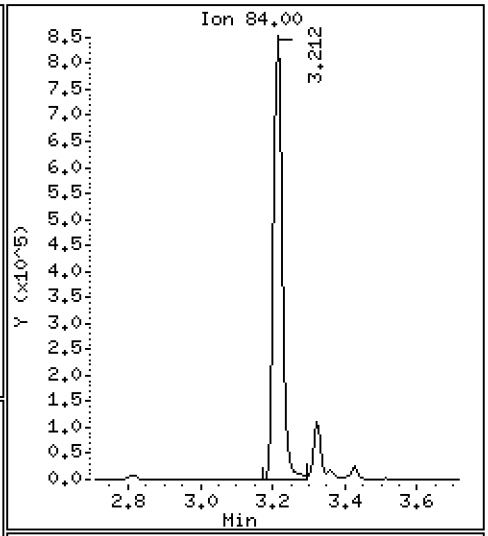
35 Cyclohexane Concentration: 99.6048 ug/L

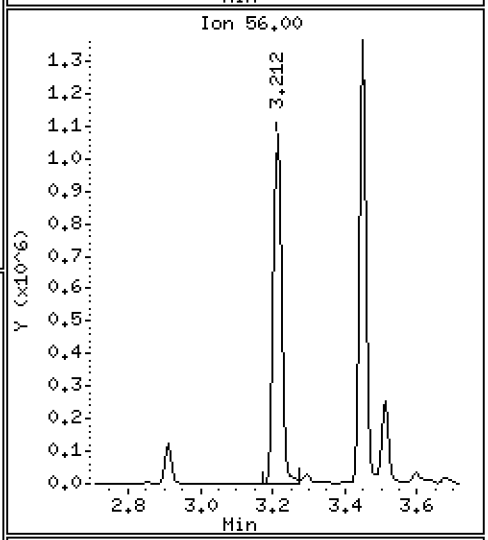


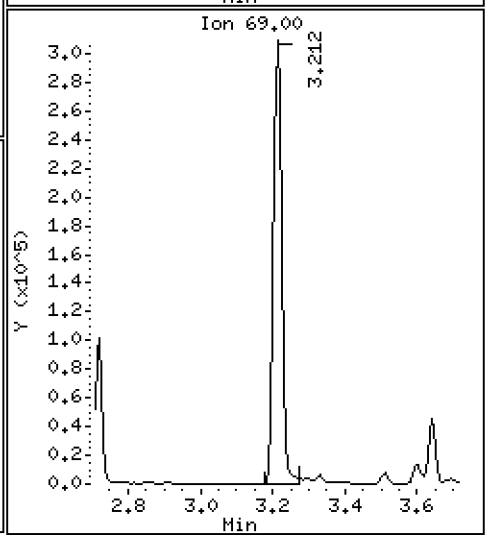












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 44

Date : 25-OCT-2016 01:14

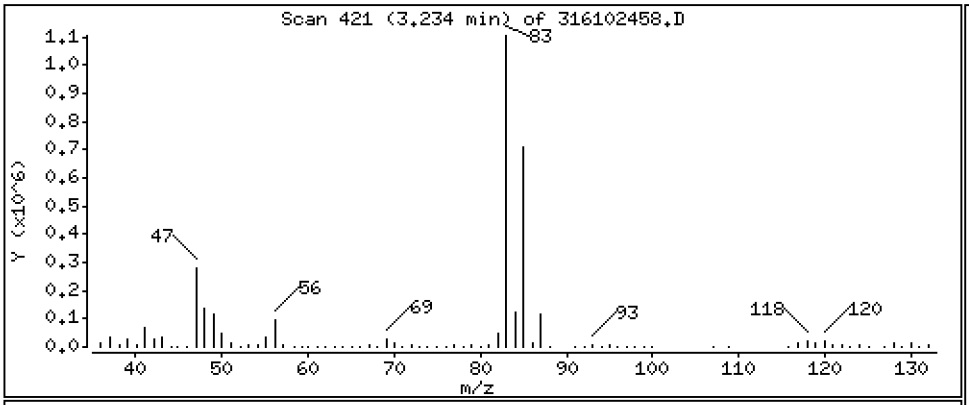
Client ID: Instrument: ms03.i

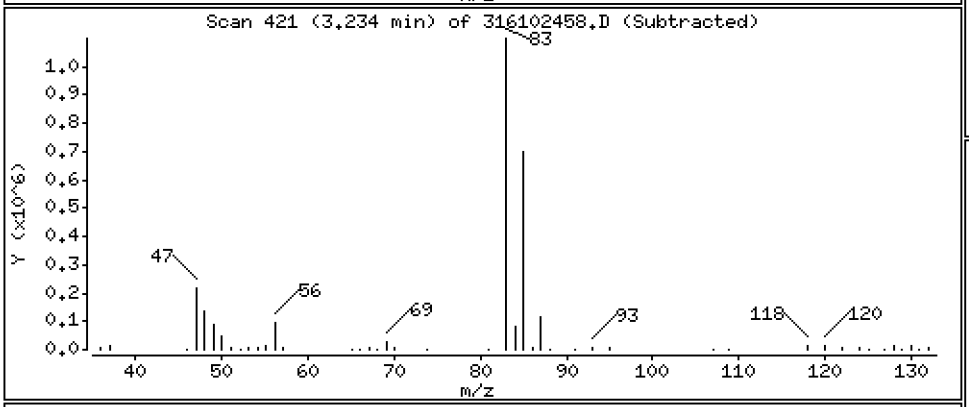
Sample Info: 1238;;1;1;5;;;

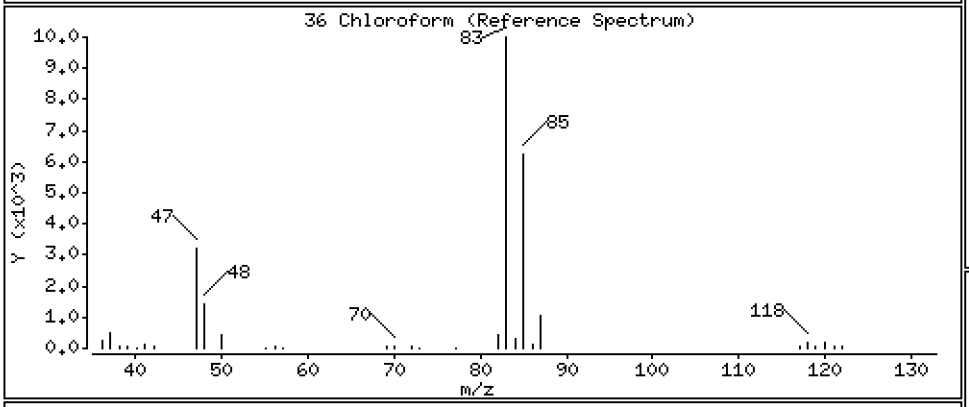
Purge Volume: 5.0 Operator: CJG

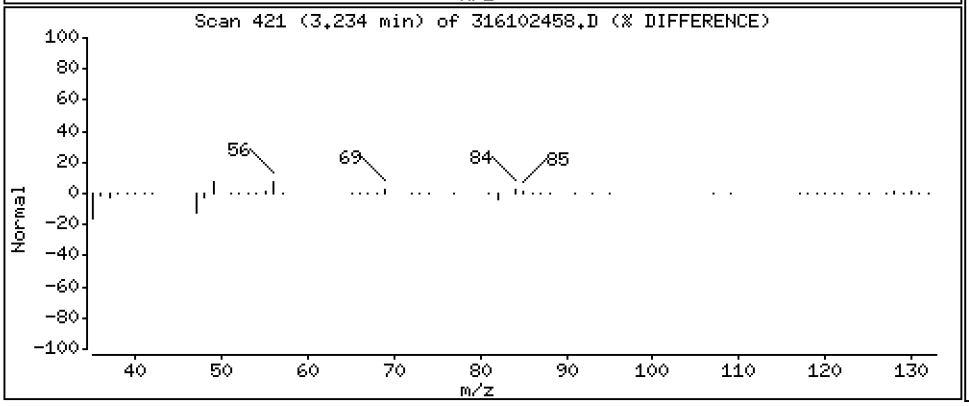
Column phase: DB-VRX Column diameter: 0.25

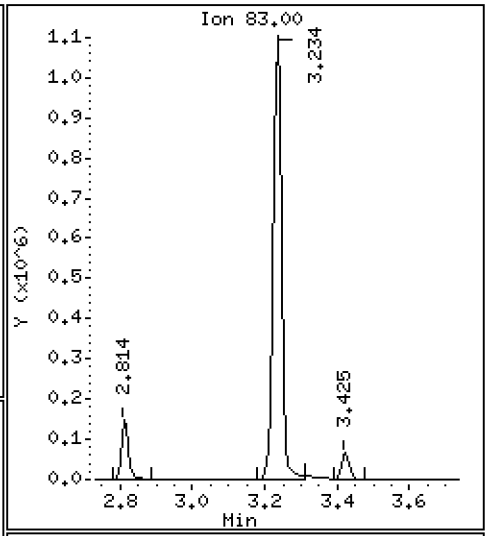
36 Chloroform Concentration: 99.4325 ug/L

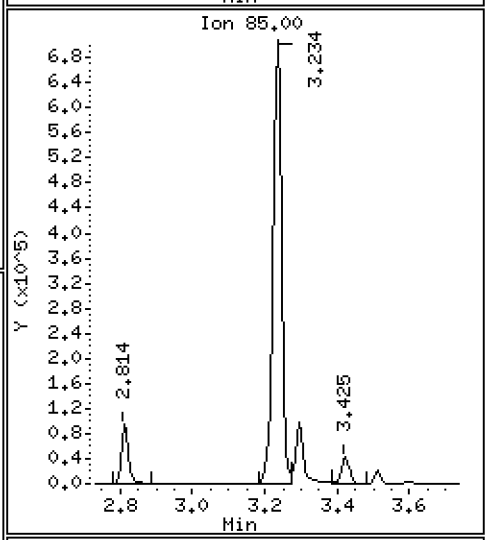


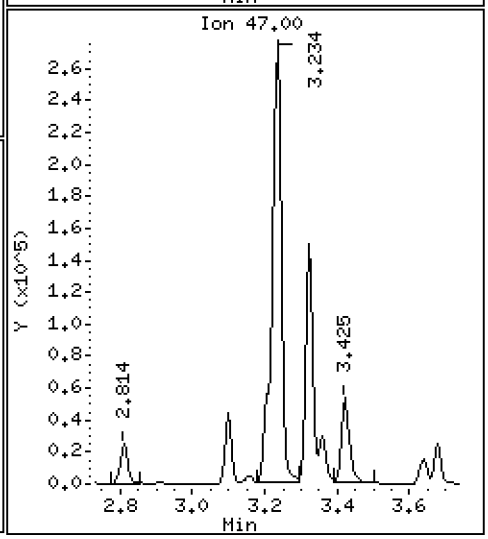












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 45

Date : 25-OCT-2016 01:14

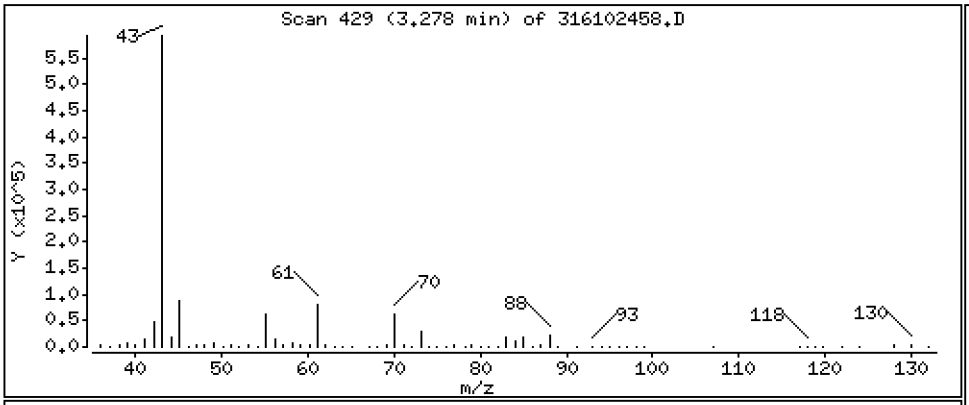
Client ID: Instrument: ms03.i

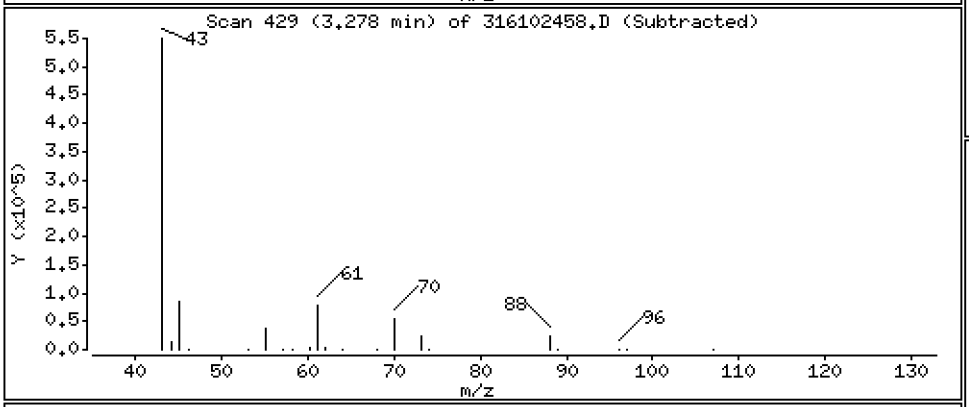
Sample Info: 1238;;1;1;5;;;

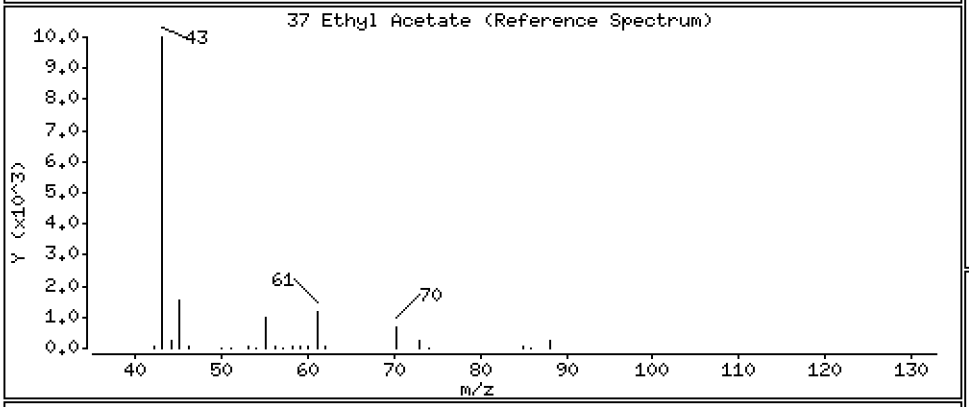
Purge Volume: 5.0 Operator: CJG

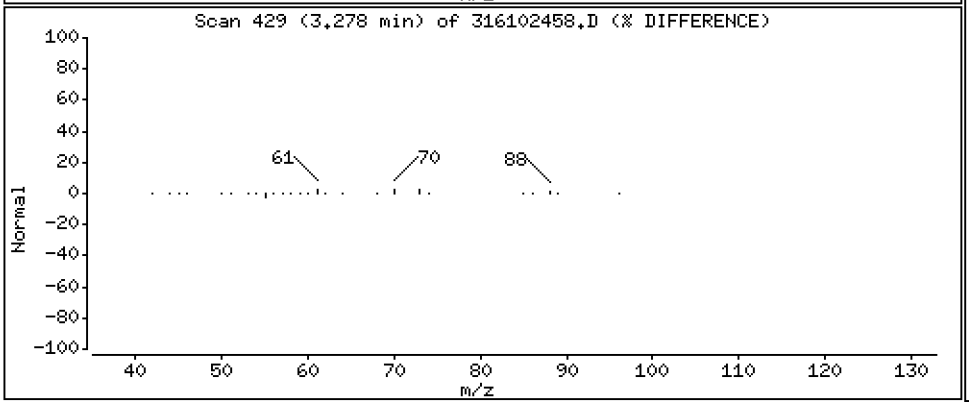
Column phase: DB-VRX Column diameter: 0.25

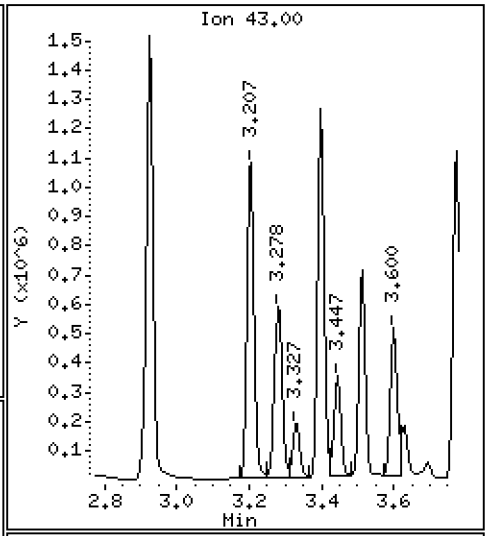
37 Ethyl Acetate Concentration: 99.6902 ug/L

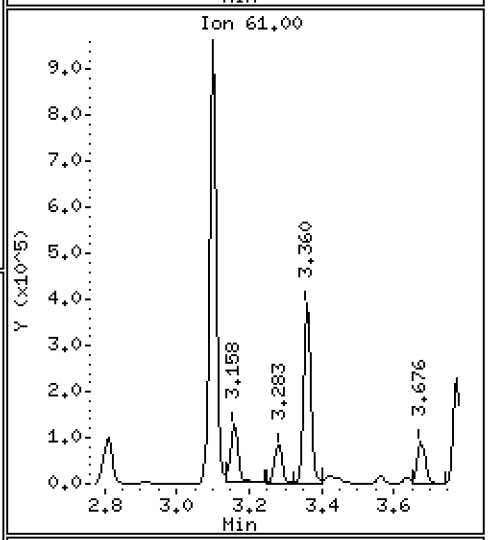


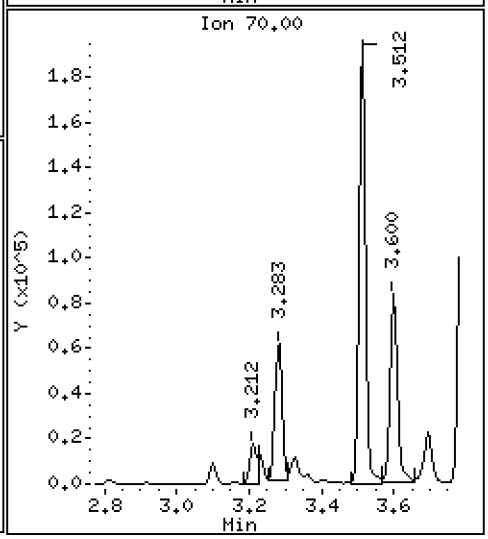












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 46

Date : 25-OCT-2016 01:14

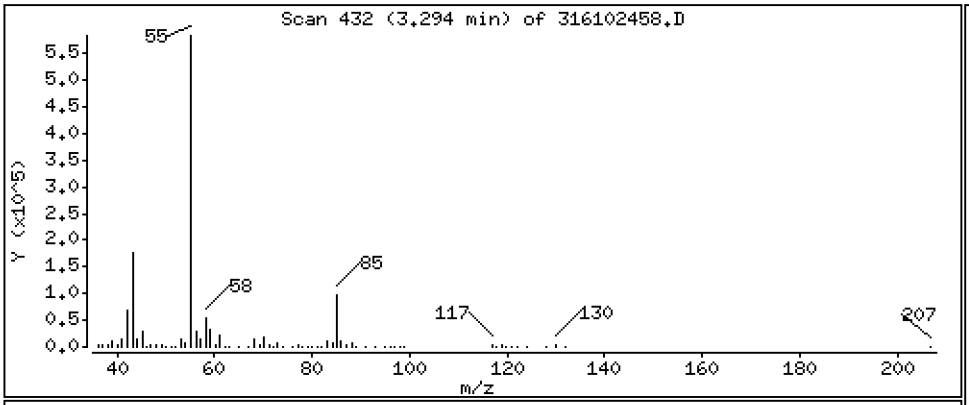
Client ID: Instrument: ms03.i

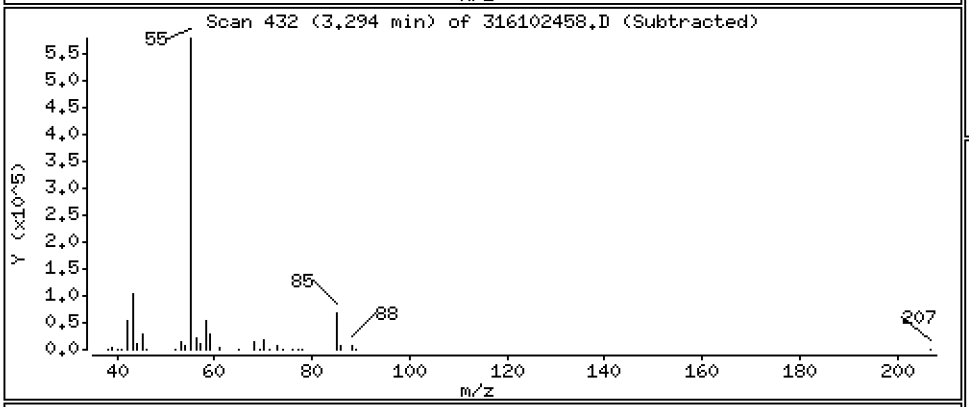
Sample Info: 1238;;1;1;5;;;

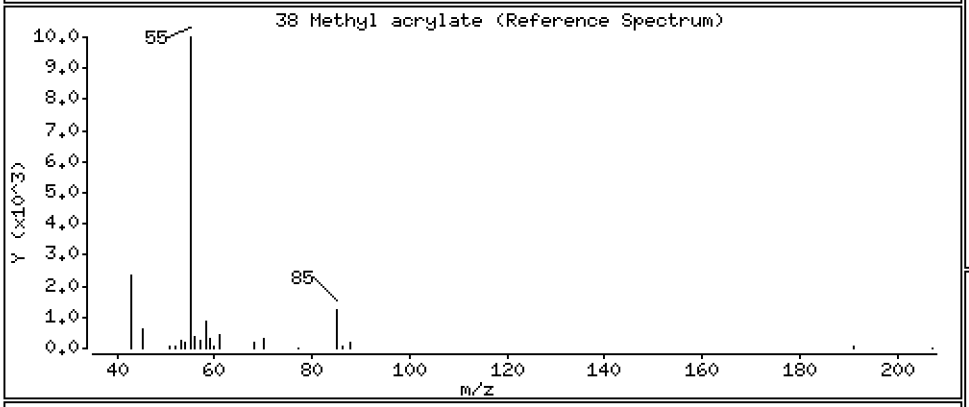
Purge Volume: 5.0 Operator: CJG

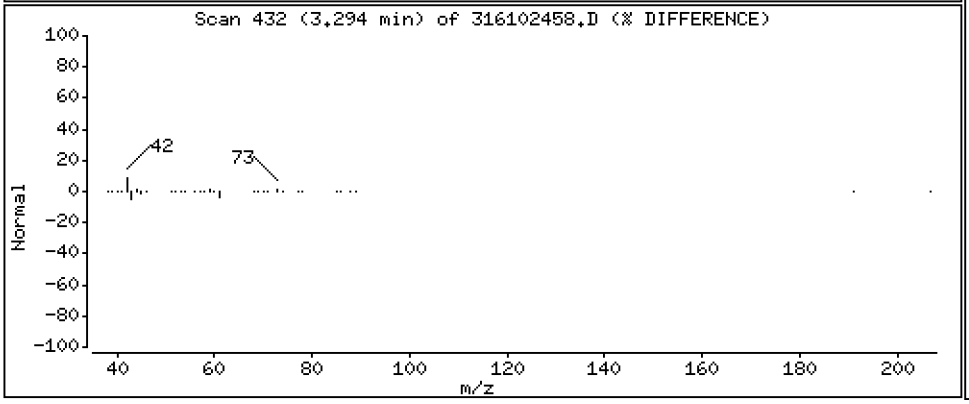
Column phase: DB-VRX Column diameter: 0.25

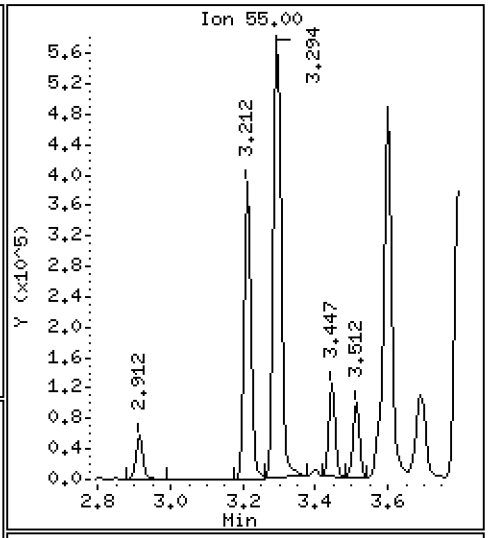
38 Methyl acrylate Concentration: 100.020 ug/L

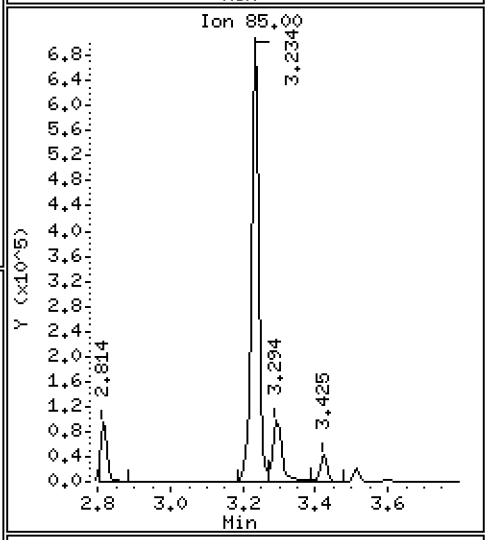


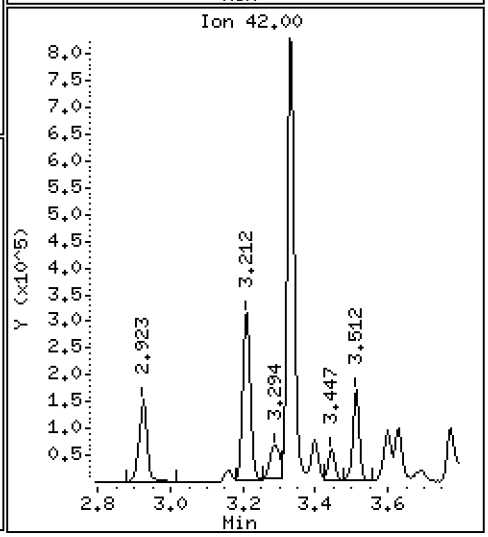












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 47

Date : 25-OCT-2016 01:14

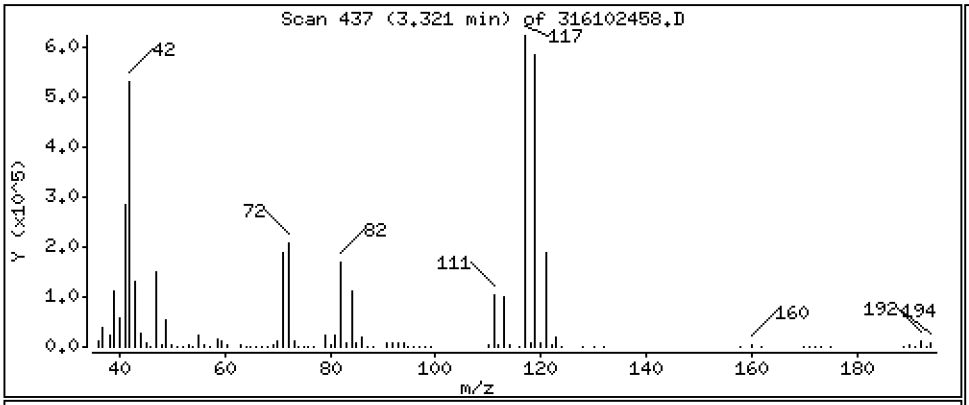
Client ID: Instrument: ms03.i

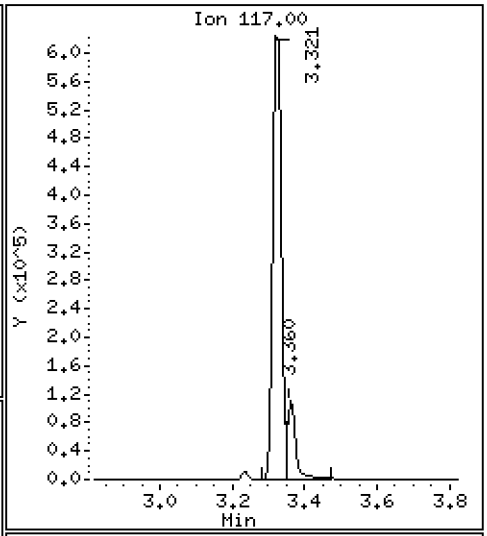
Sample Info: 1238;;1;1;5;;;

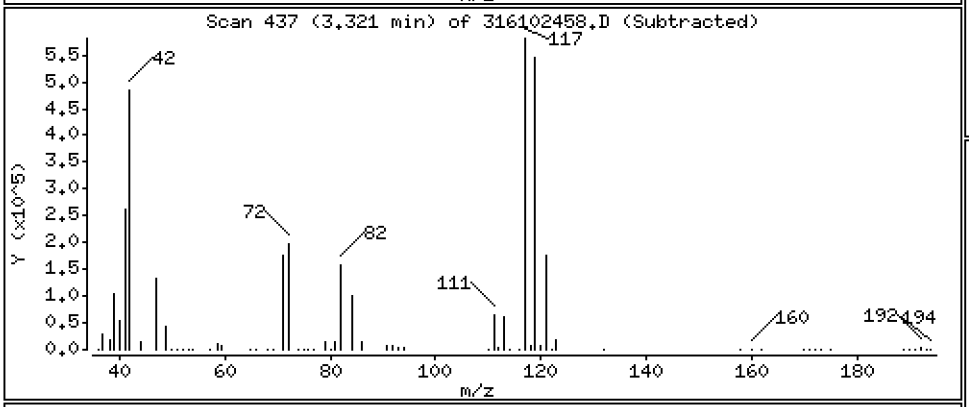
Purge Volume: 5.0 Operator: CJG

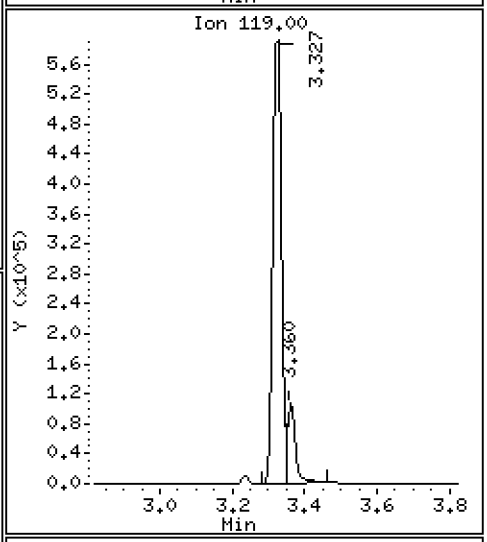
Column phase: DB-VRX Column diameter: 0.25

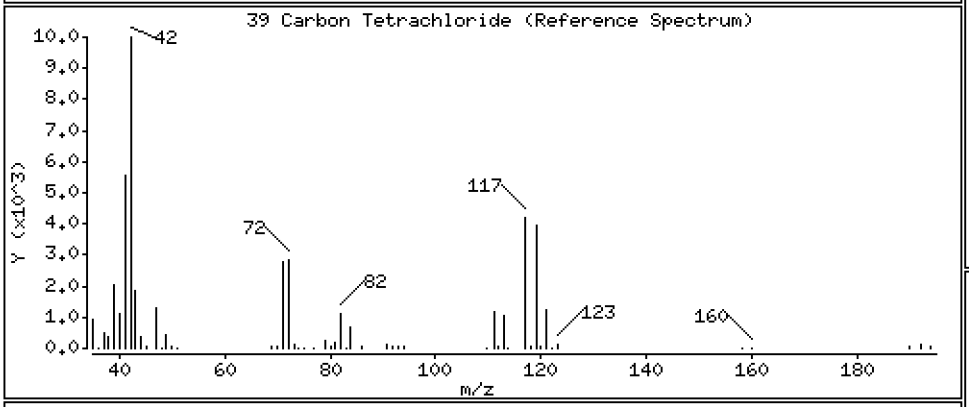
39 Carbon Tetrachloride Concentration: 100.294 ug/L

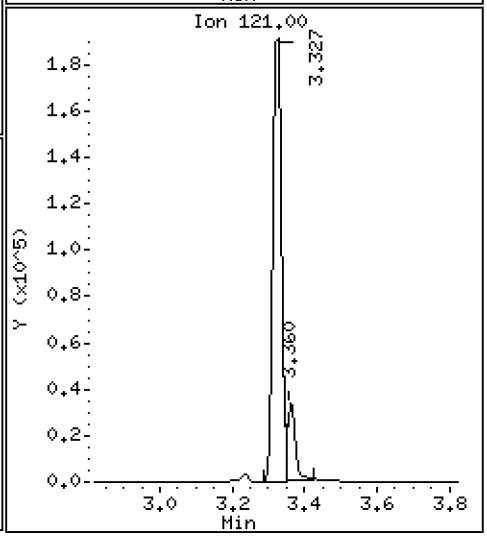


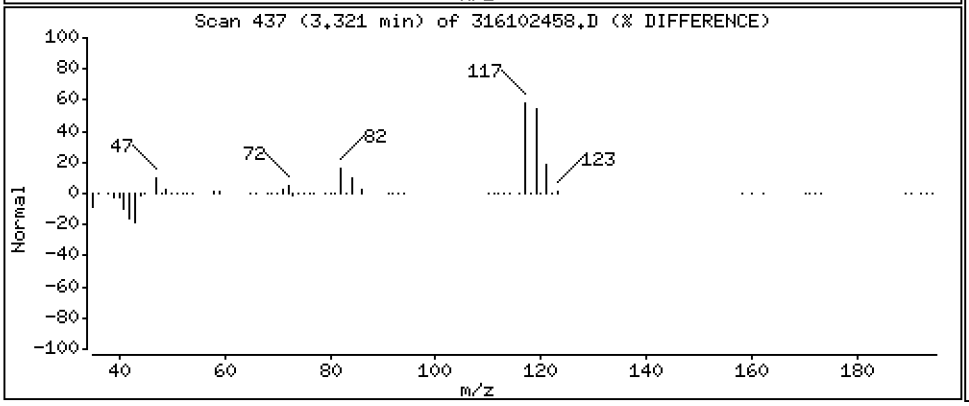












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 48

Date : 25-OCT-2016 01:14

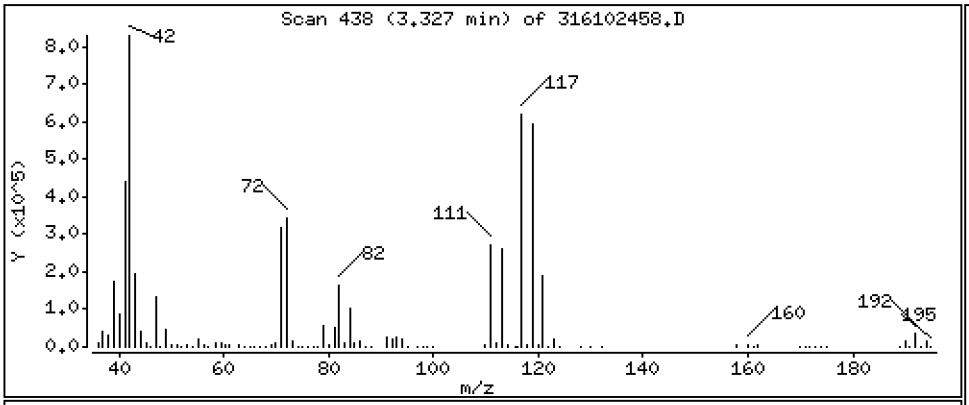
Client ID: Instrument: ms03.i

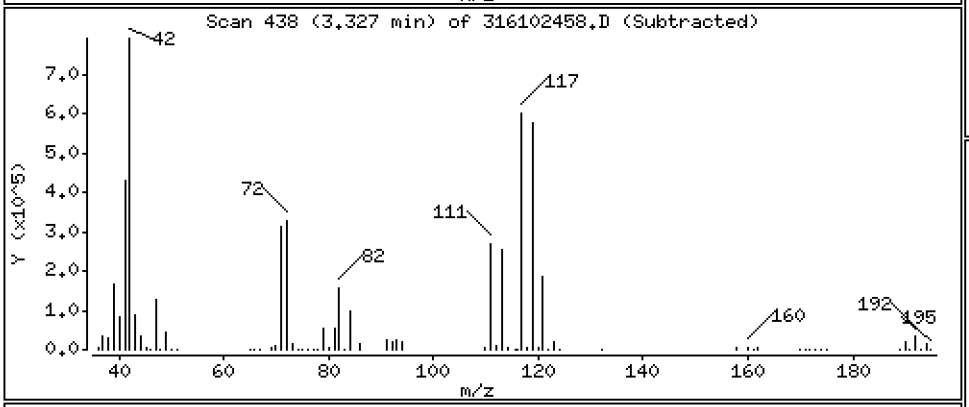
Sample Info: 1238;;1;1;5;;;

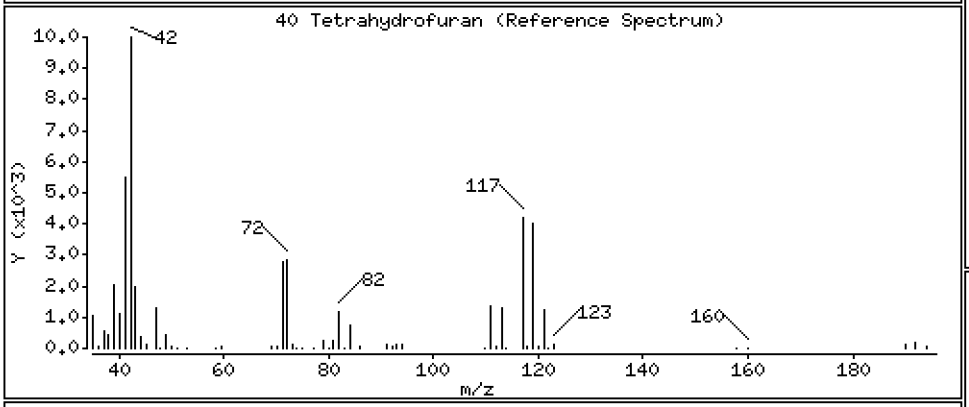
Purge Volume: 5.0 Operator: CJG

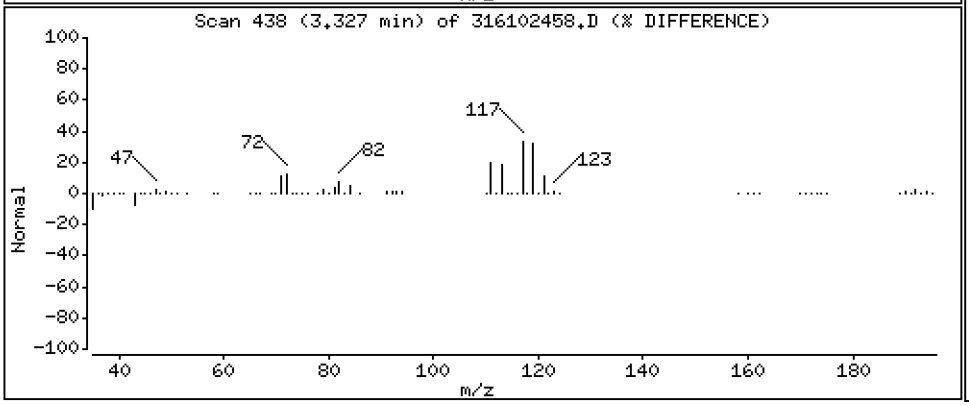
Column phase: DB-VRX Column diameter: 0.25

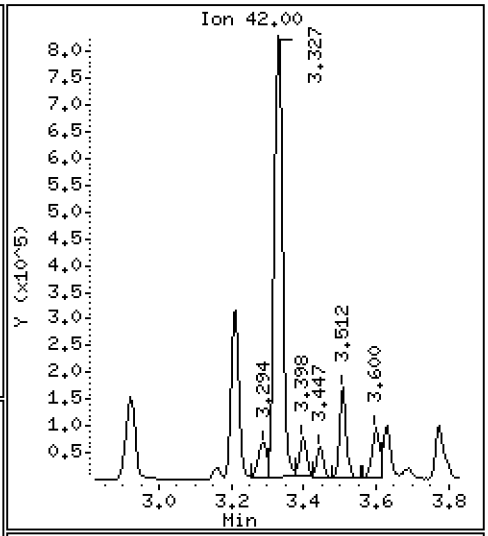
40 Tetrahydrofuran Concentration: 495.562 ug/L

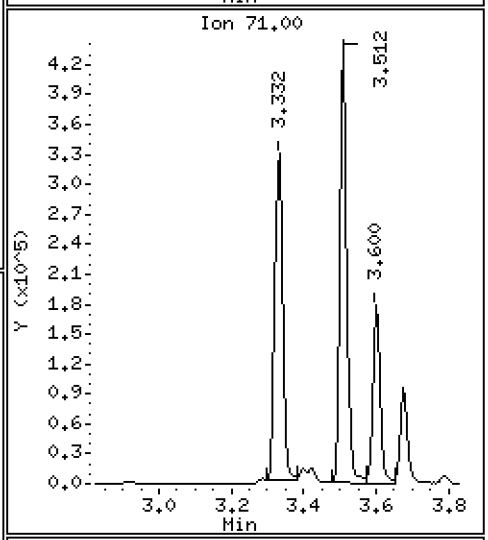


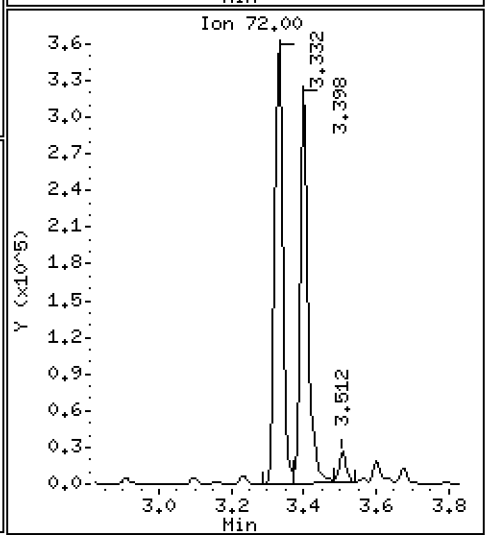












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 49

Date : 25-OCT-2016 01:14

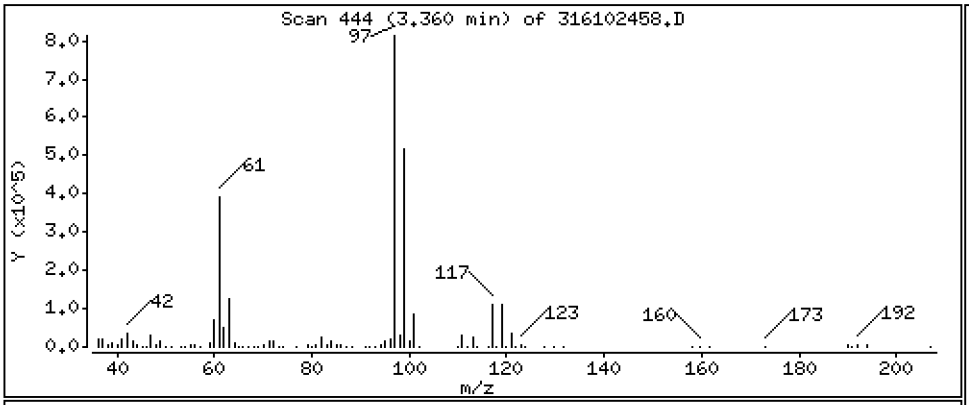
Client ID: Instrument: ms03.i

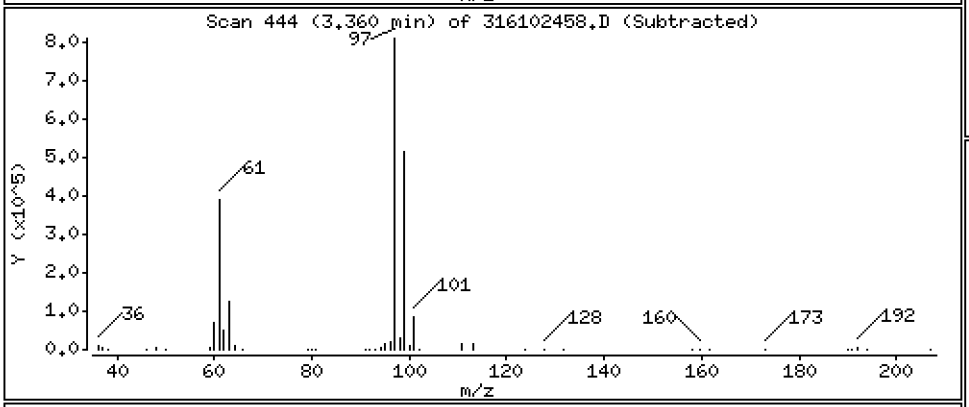
Sample Info: 1238;;1;1;5;;;

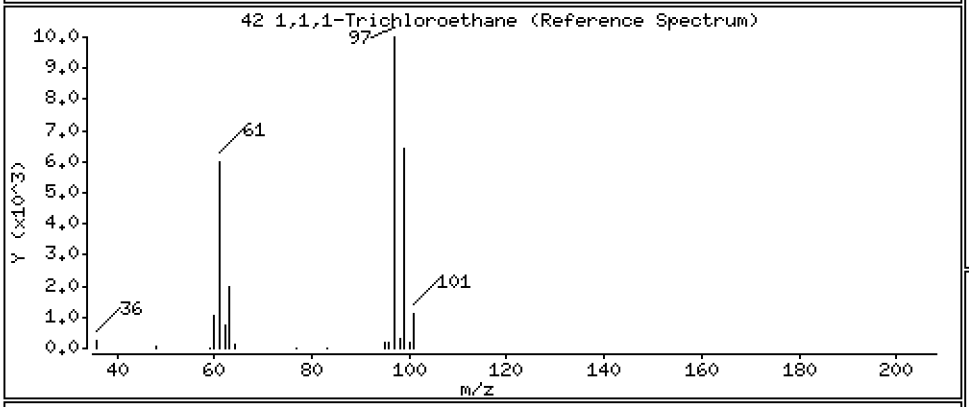
Purge Volume: 5.0 Operator: CJG

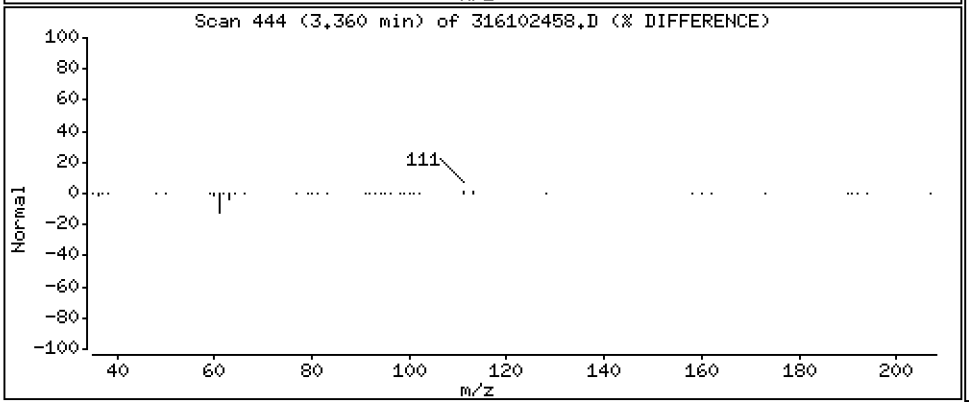
Column phase: DB-VRX Column diameter: 0.25

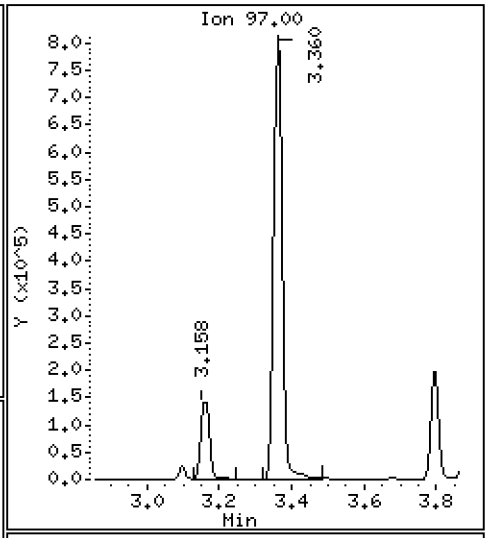
42 1,1,1-Trichloroethane Concentration: 100.874 ug/L

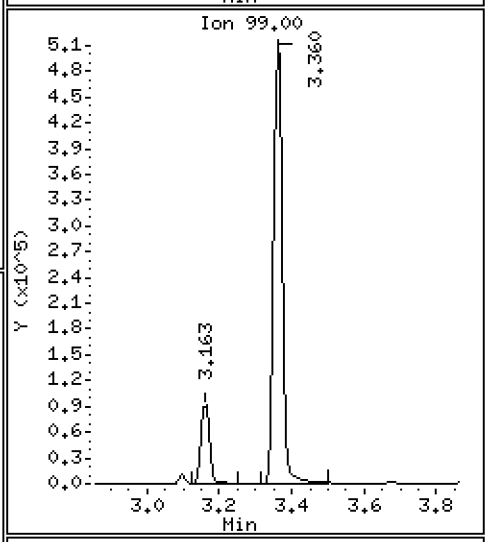


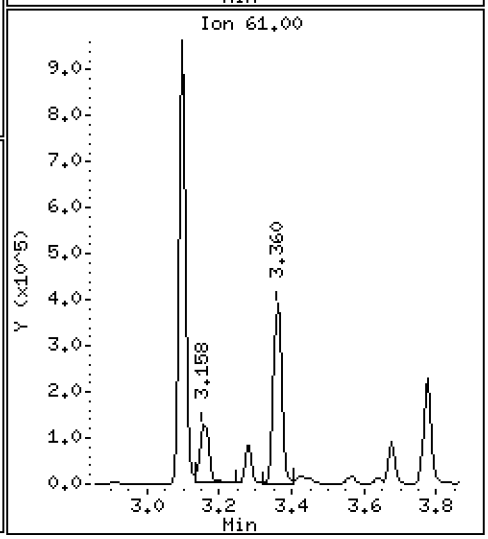












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 50

Date : 25-OCT-2016 01:14

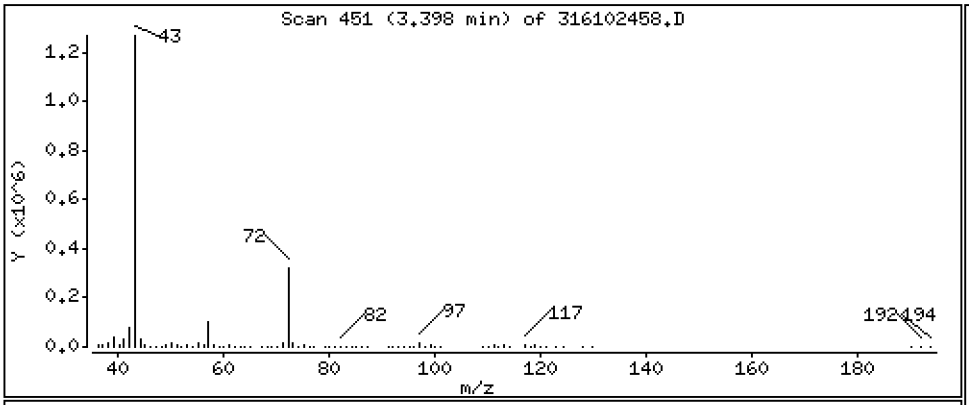
Client ID: Instrument: ms03.i

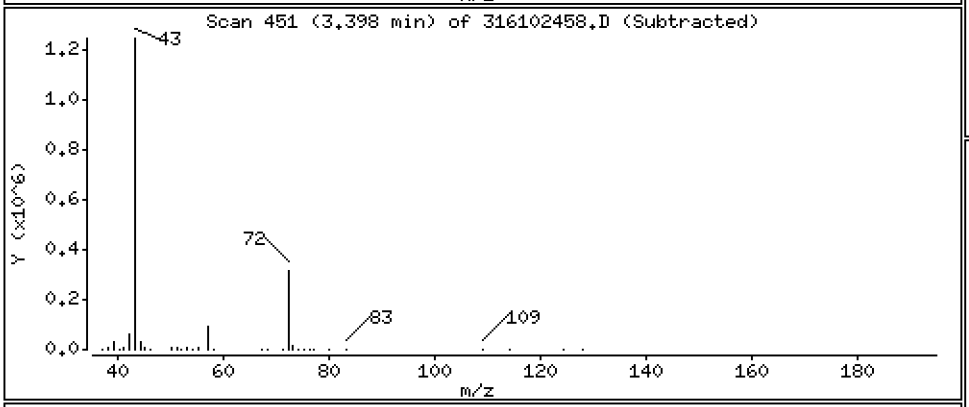
Sample Info: 1238;;1;1;5;;;

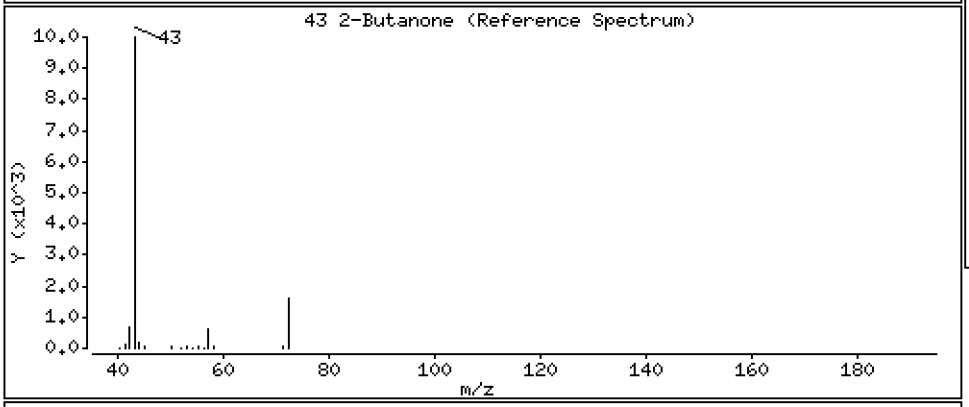
Purge Volume: 5.0 Operator: CJG

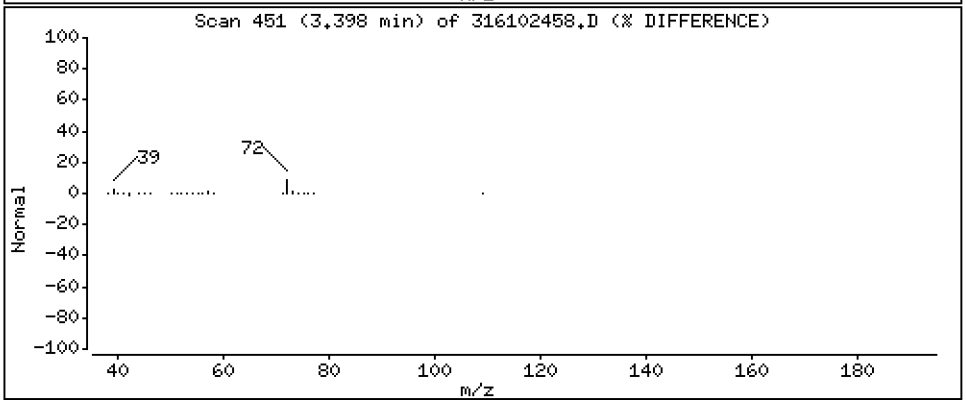
Column phase: DB-VRX Column diameter: 0.25

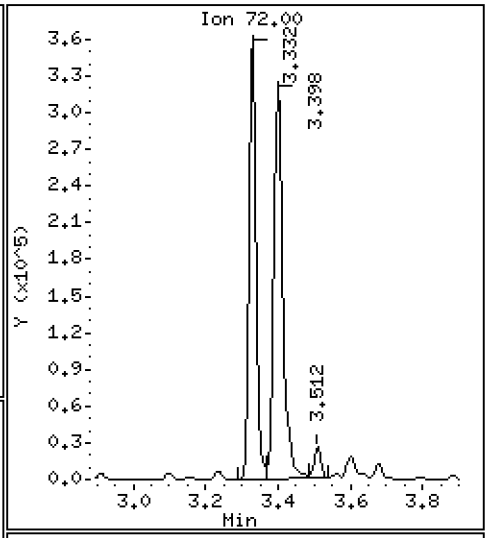
43 2-Butanone Concentration: 495.926 ug/L

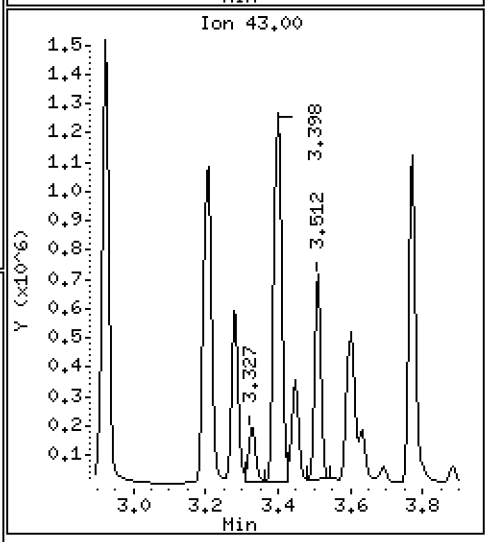












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 51

Date : 25-OCT-2016 01:14

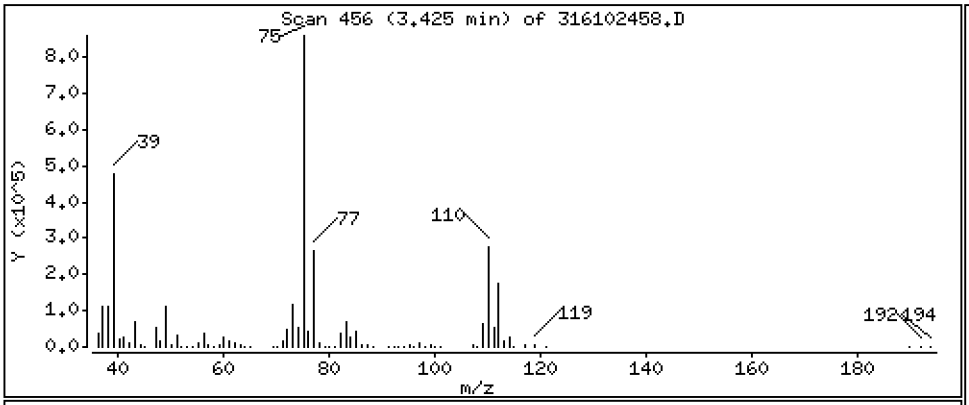
Client ID: Instrument: ms03.i

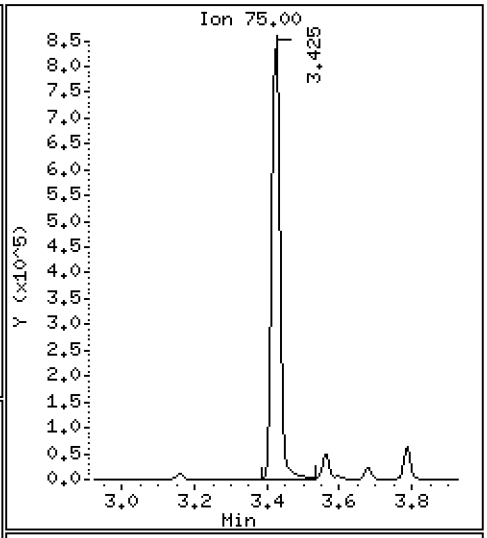
Sample Info: 1238;;1;1;5;;;

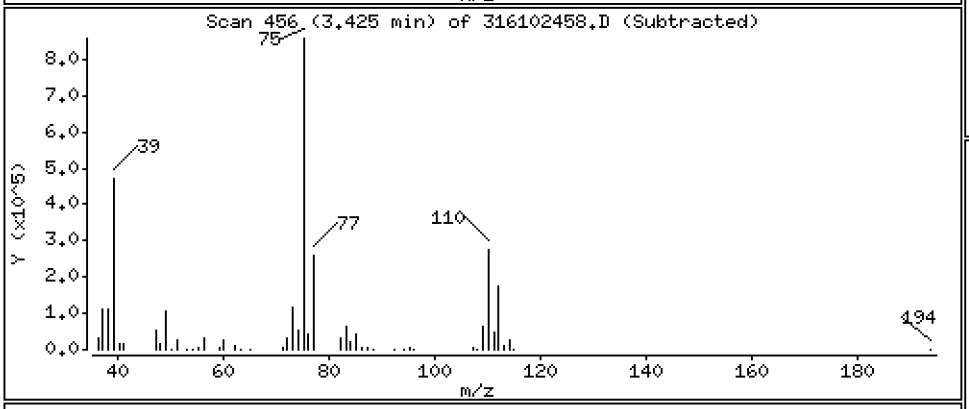
Purge Volume: 5.0 Operator: CJG

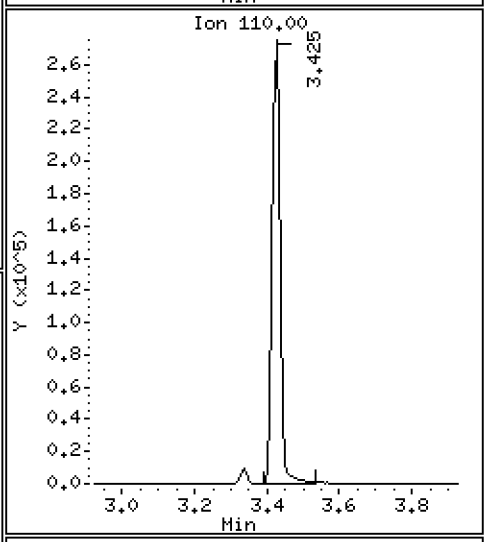
Column phase: DB-VRX Column diameter: 0.25

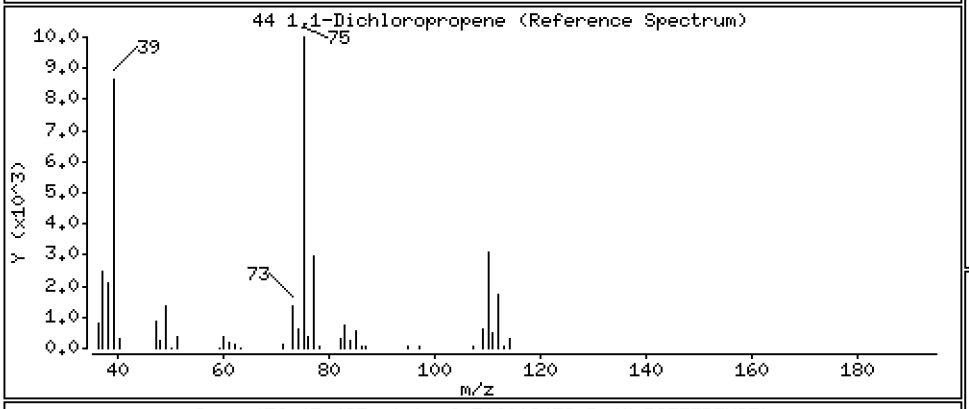
44 1,1-Dichloropropene Concentration: 99.5864 ug/L

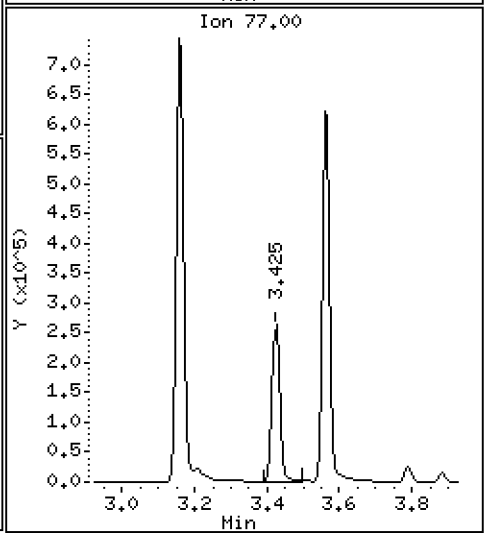


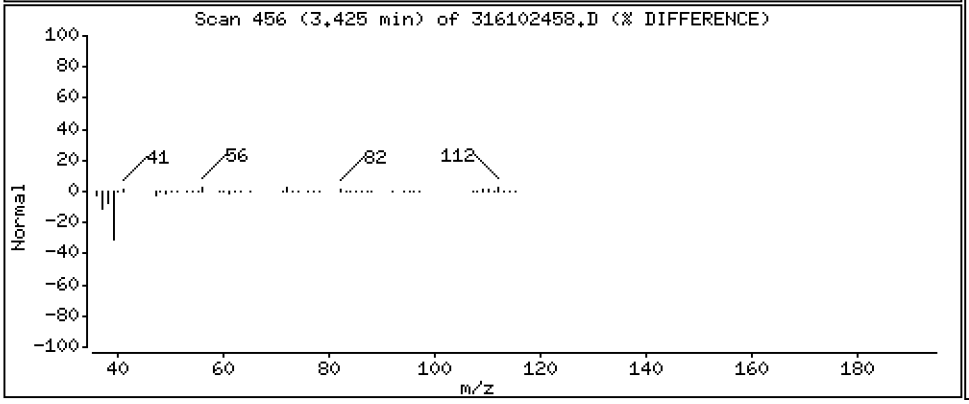












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 52

Date : 25-OCT-2016 01:14

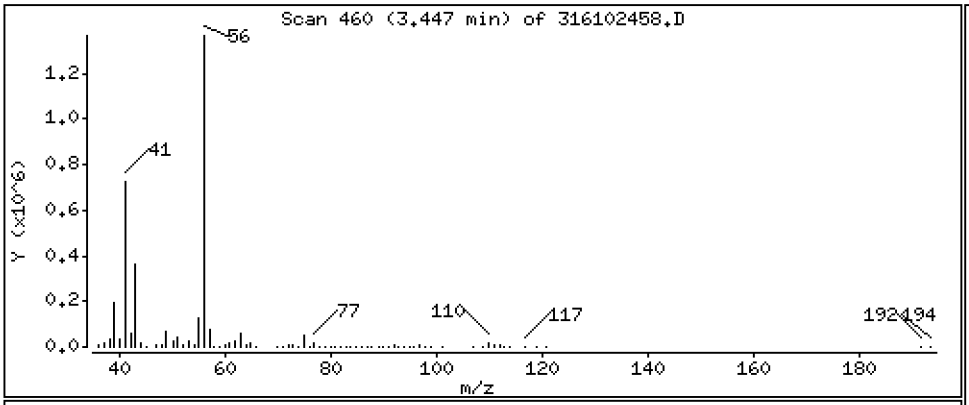
Client ID: Instrument: ms03.i

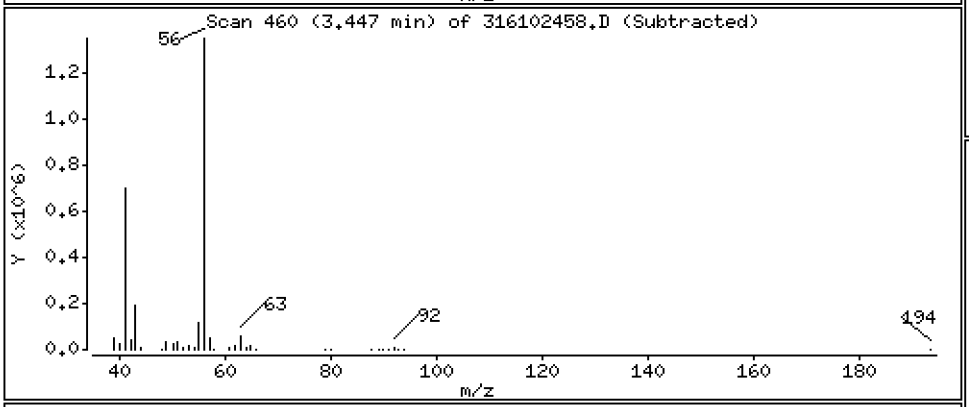
Sample Info: 1238;;1;1;5;;;

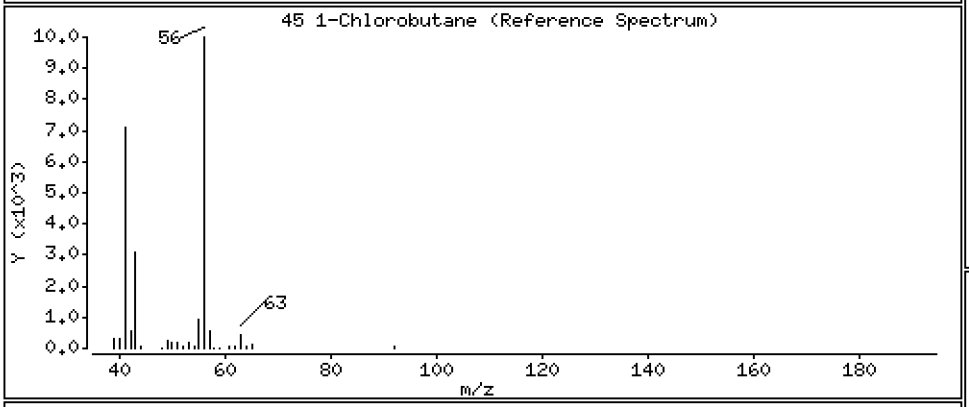
Purge Volume: 5.0 Operator: CJG

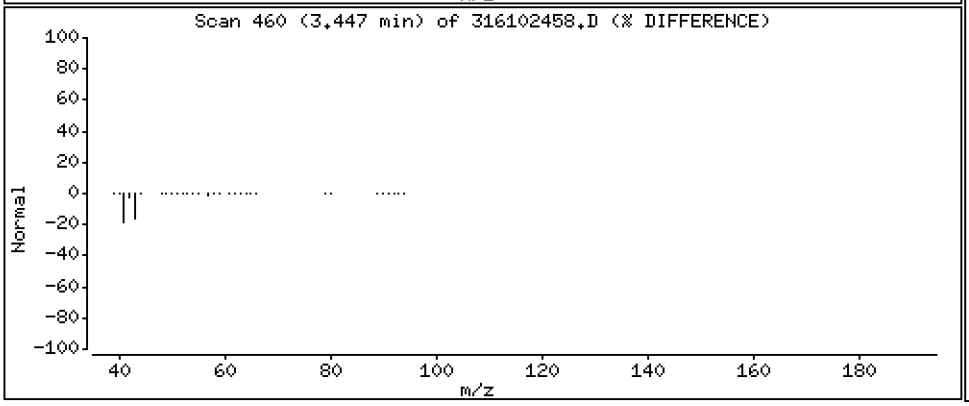
Column phase: DB-VRX Column diameter: 0.25

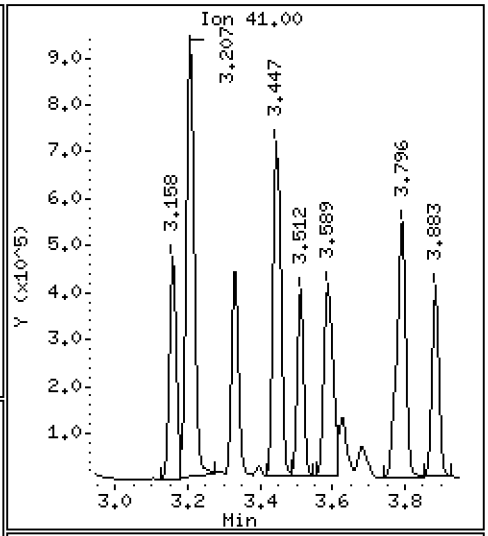
45 1-Chlorobutane Concentration: 99.4689 ug/L

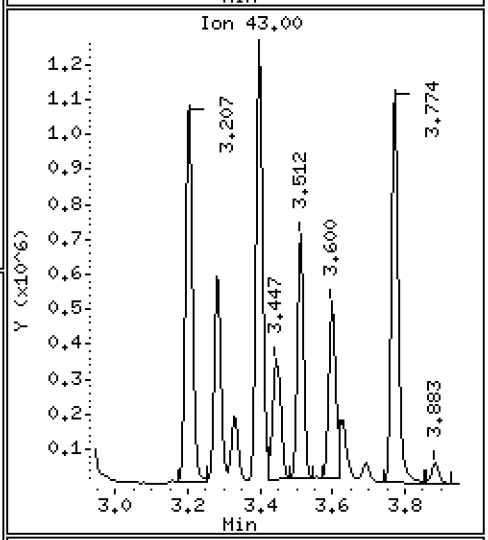


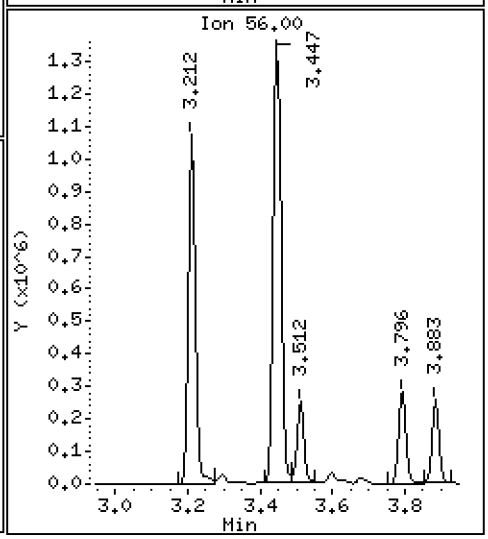












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 53

Date : 25-OCT-2016 01:14

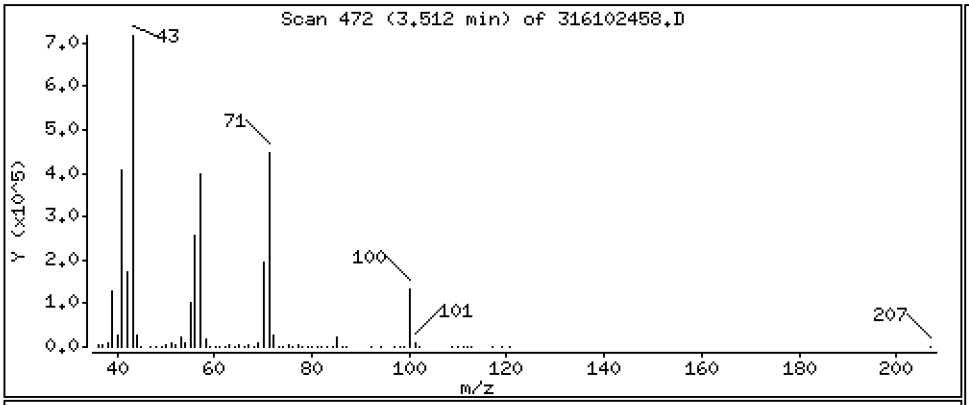
Client ID: Instrument: ms03.i

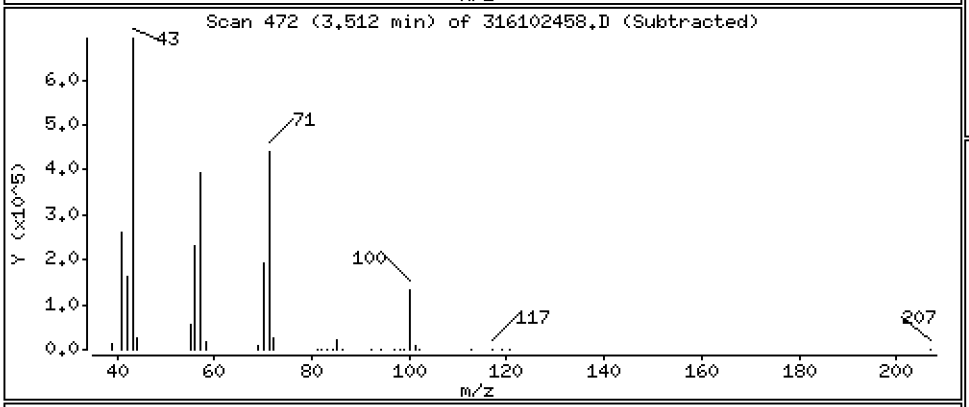
Sample Info: 1238;;1;1;5;;;

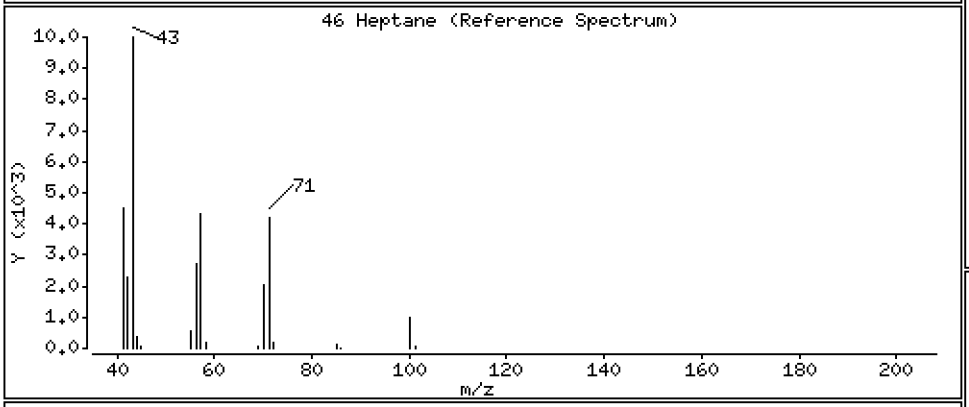
Purge Volume: 5.0 Operator: CJG

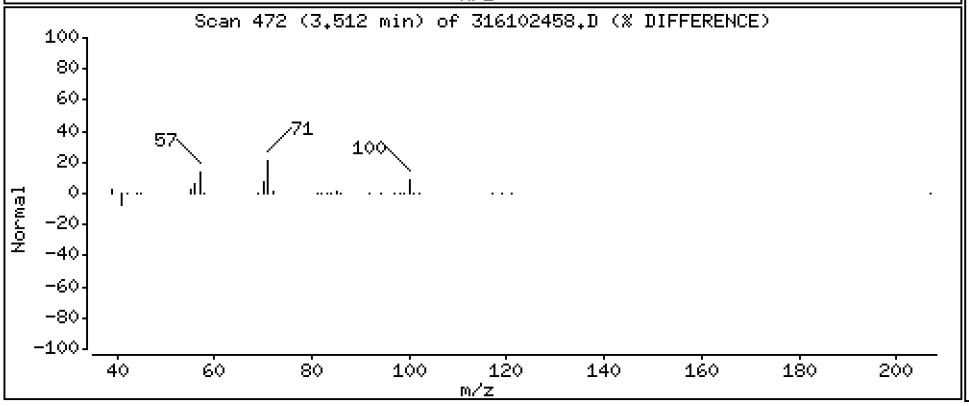
Column phase: DB-VRX Column diameter: 0.25

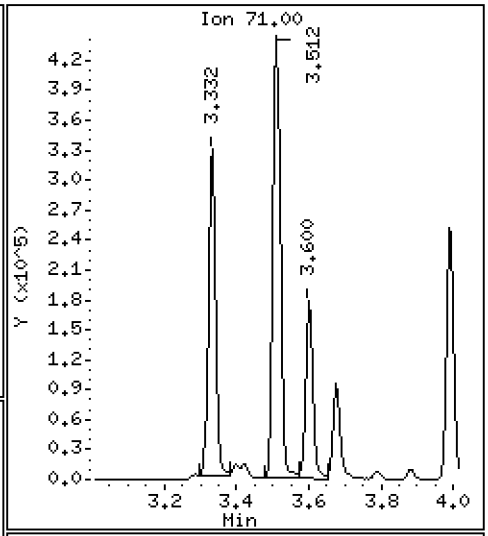
46 Heptane Concentration: 101.365 ug/L

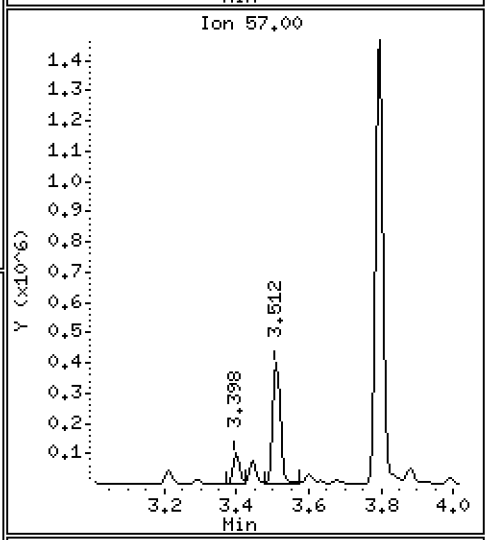


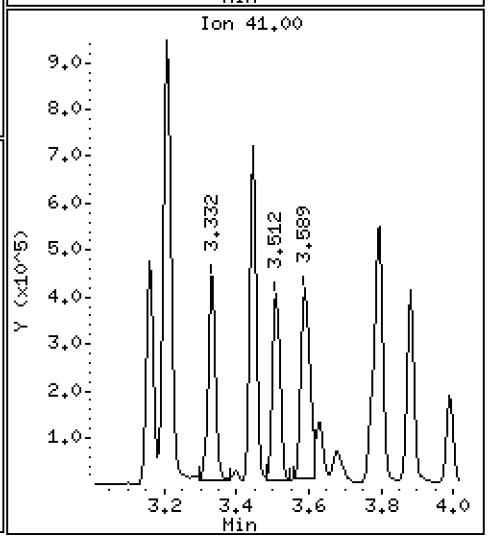












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 54

Date : 25-OCT-2016 01:14

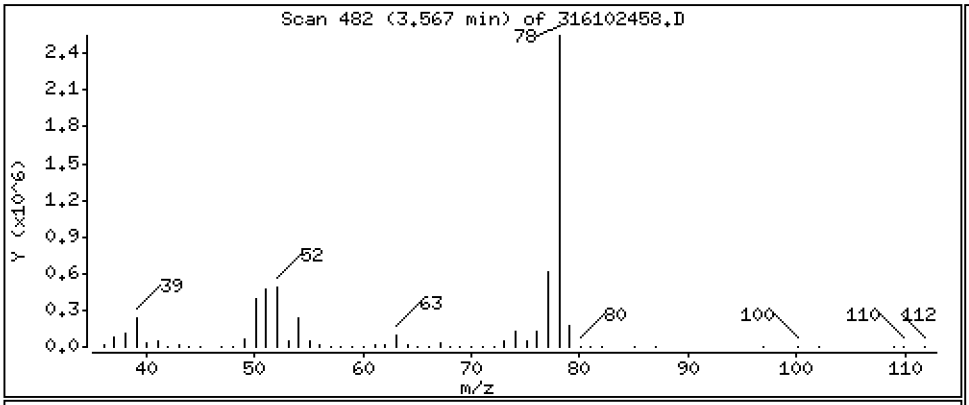
Client ID: Instrument: ms03.i

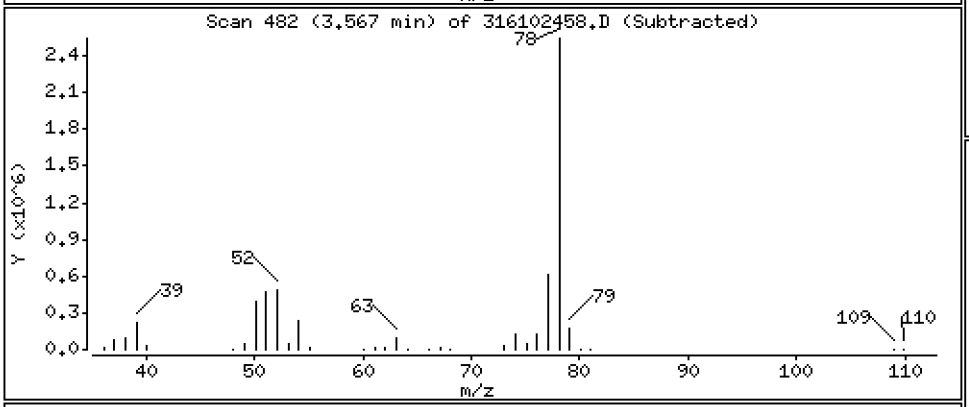
Sample Info: 1238;;1;1;5;;;

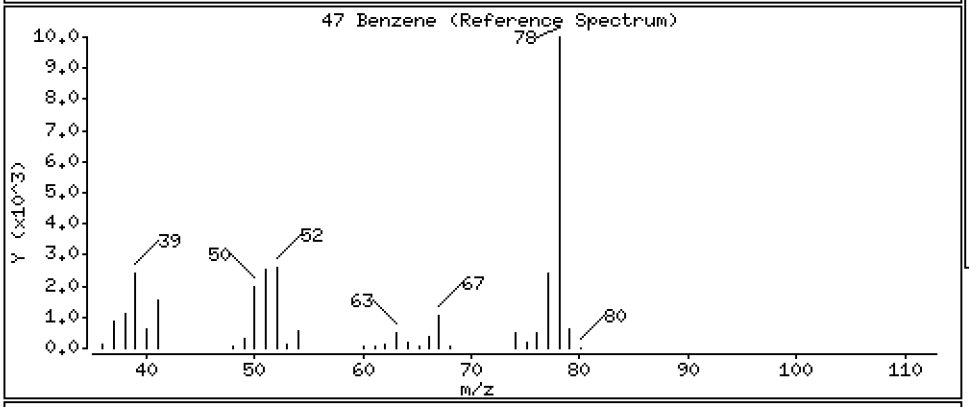
Purge Volume: 5.0 Operator: CJG

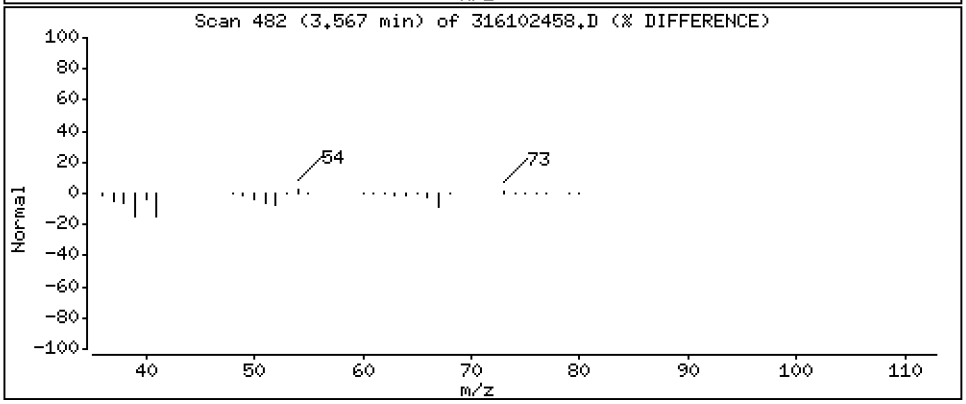
Column phase: DB-VRX Column diameter: 0.25

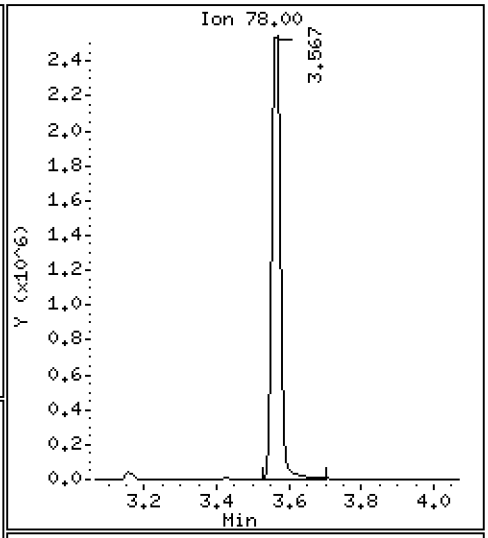
47 Benzene Concentration: 99.6693 ug/L

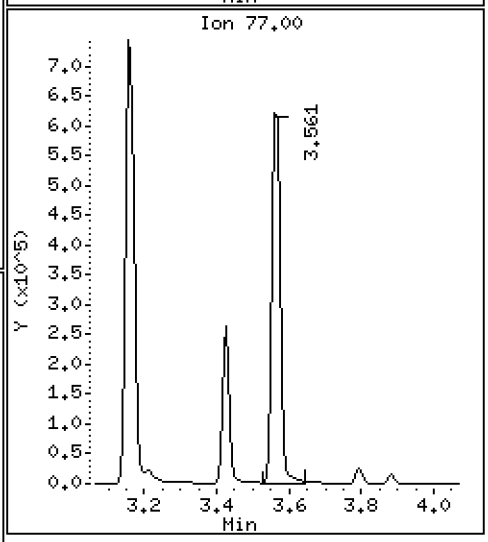












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 55

Date : 25-OCT-2016 01:14

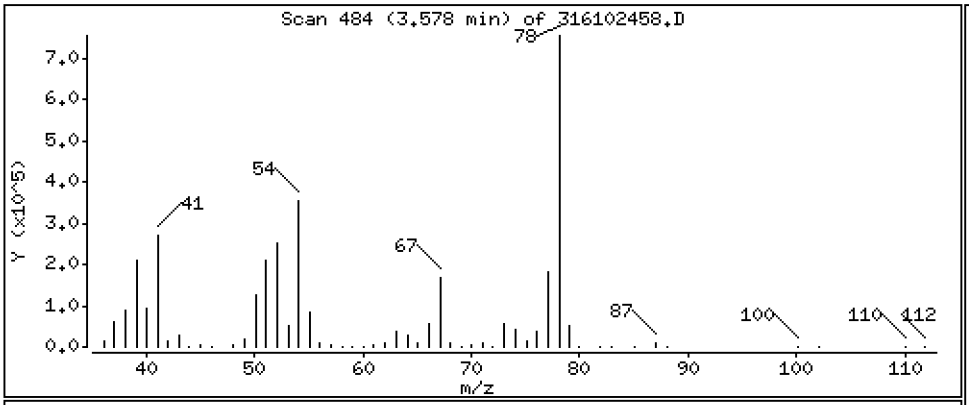
Client ID: Instrument: ms03.i

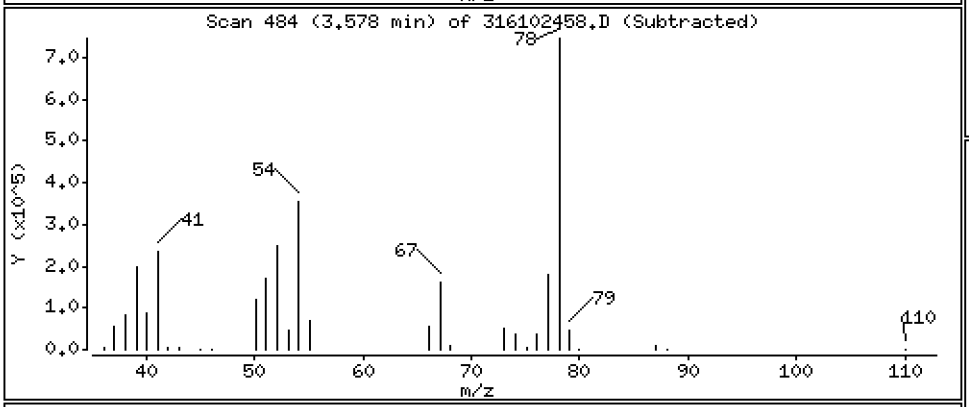
Sample Info: 1238;;1;1;5;;;

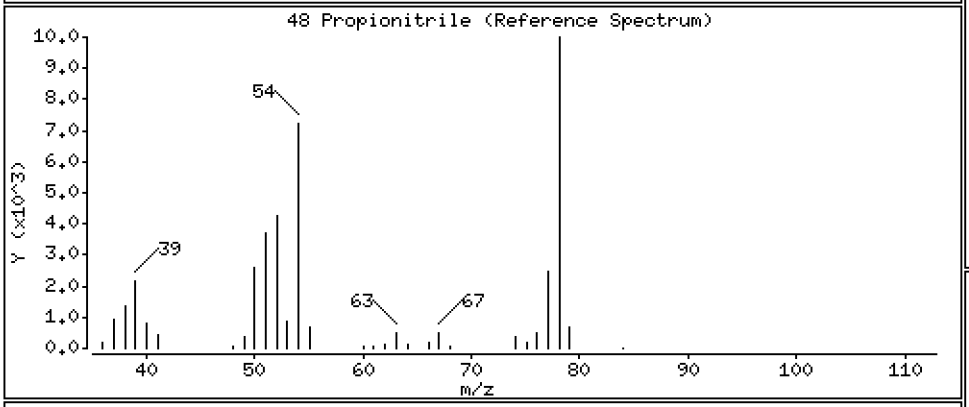
Purge Volume: 5.0 Operator: CJG

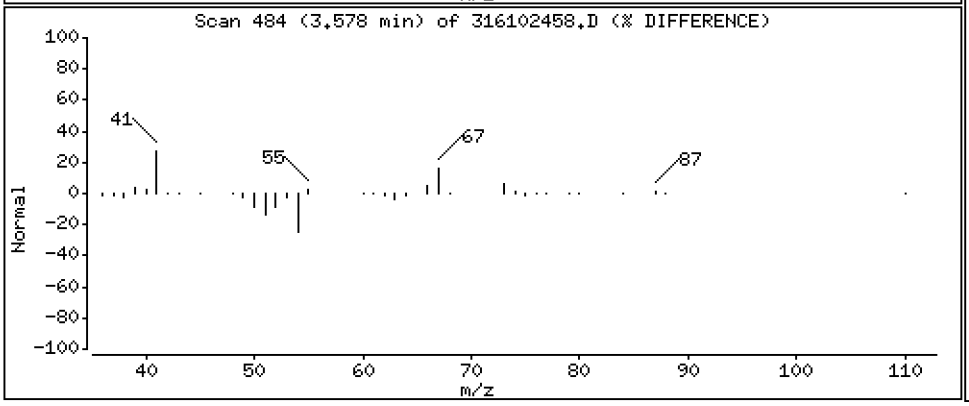
Column phase: DB-VRX Column diameter: 0.25

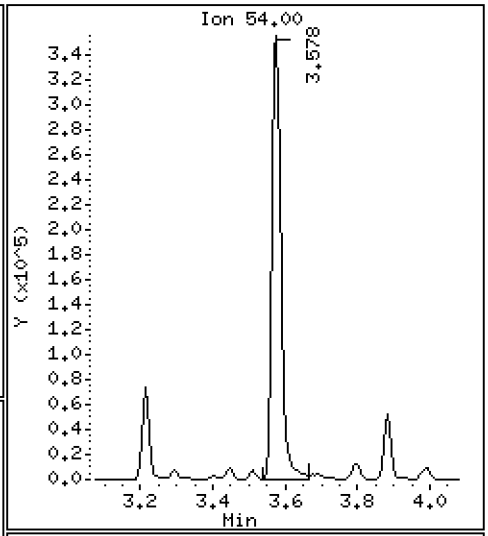
48 Propionitrile Concentration: 494.292 ug/L

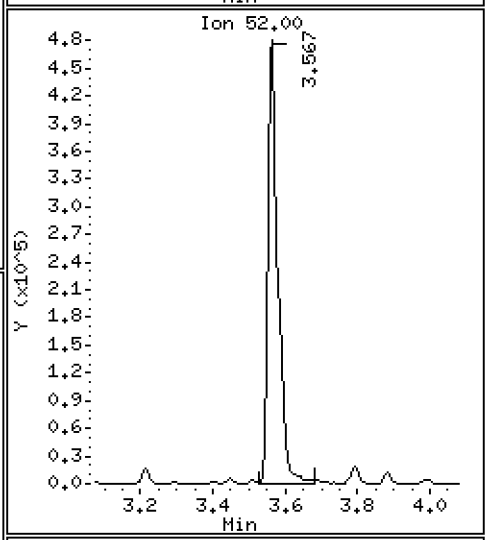


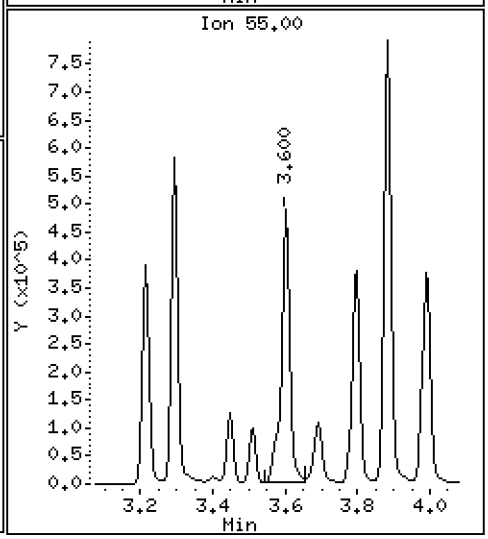












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 56

Date : 25-OCT-2016 01:14

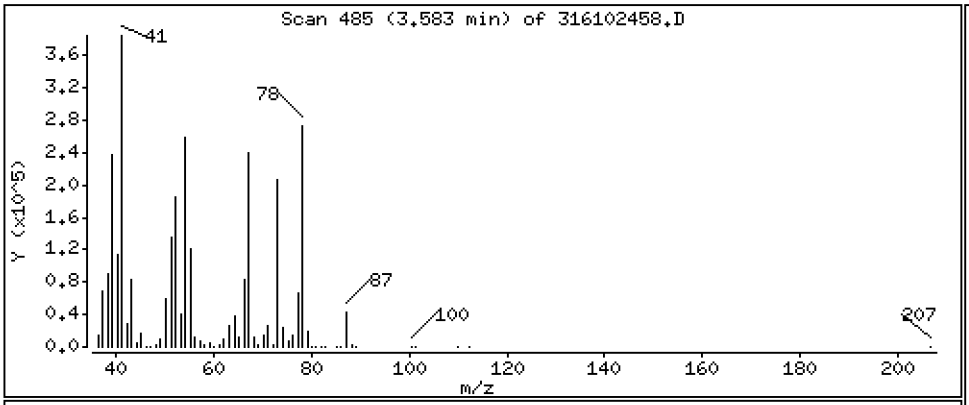
Client ID: Instrument: ms03.i

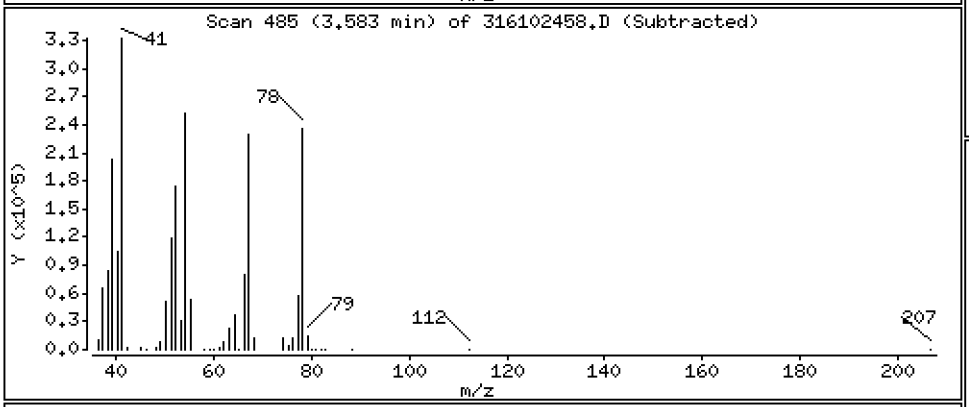
Sample Info: 1238;;1;1;5;;;

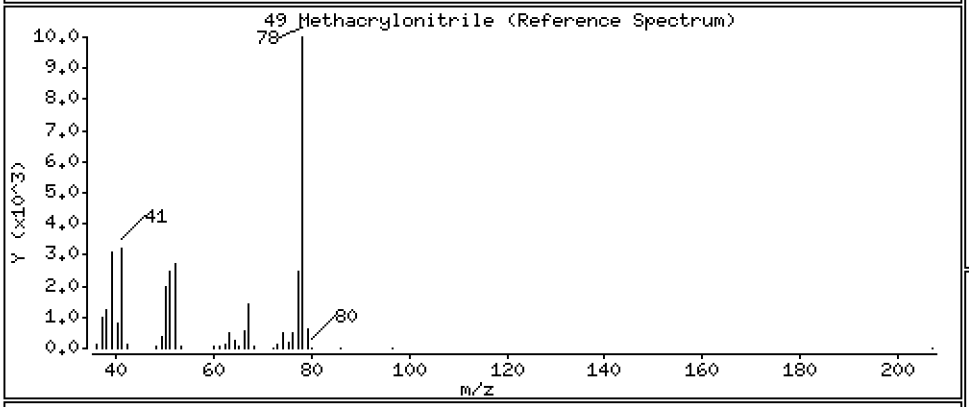
Purge Volume: 5.0 Operator: CJG

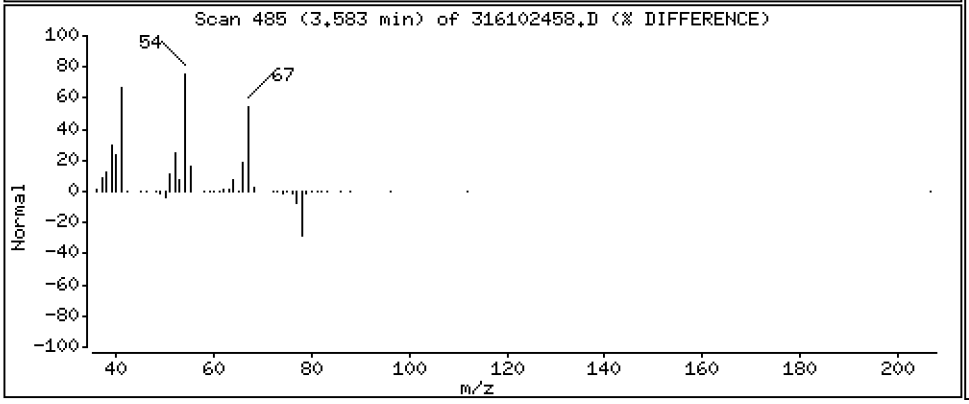
Column phase: DB-VRX Column diameter: 0.25

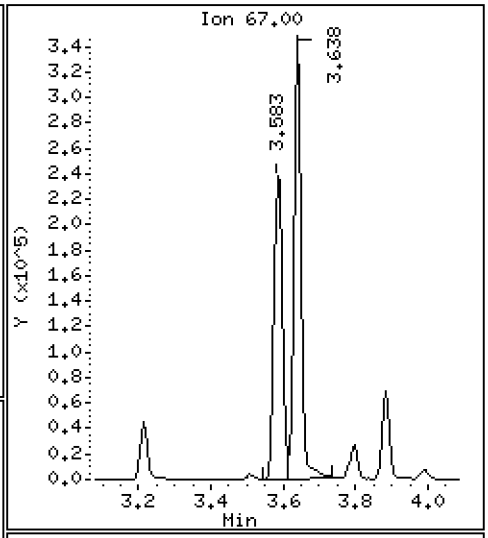
49 Methacrylonitrile Concentration: 98.9728 ug/L

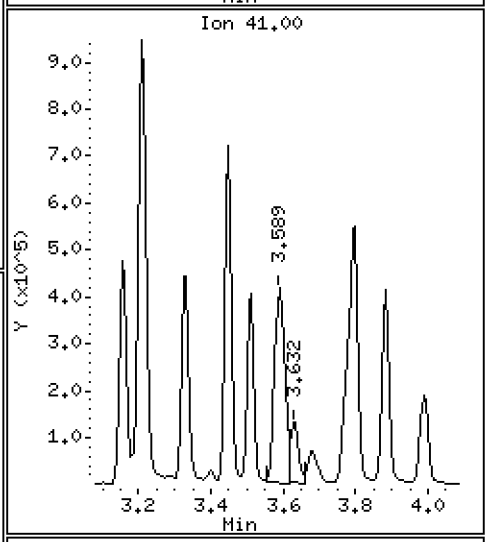


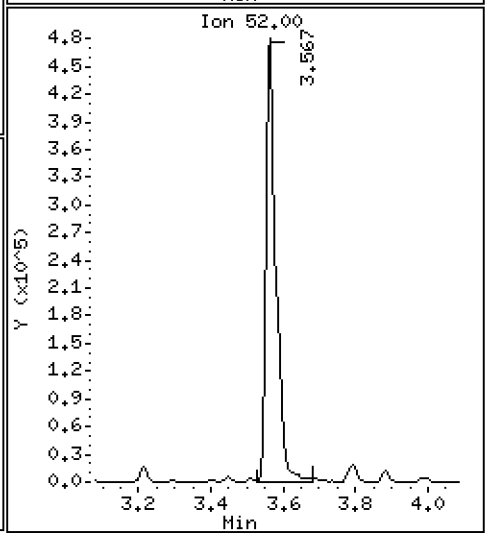












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 57

Date : 25-OCT-2016 01:14

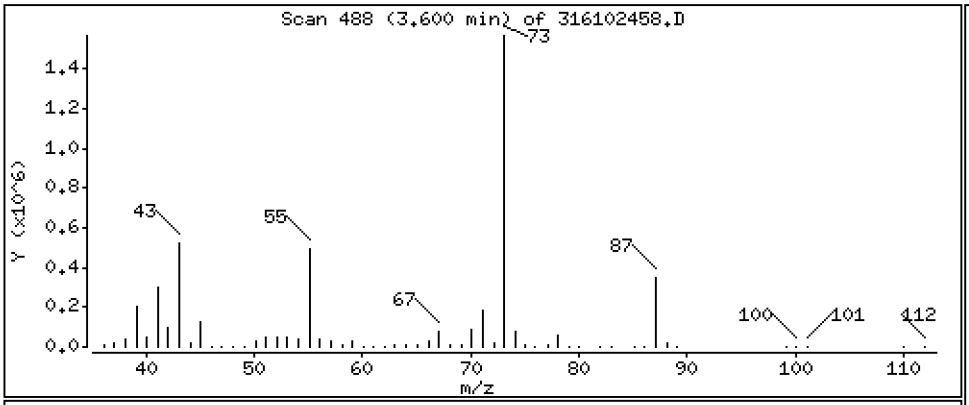
Client ID: Instrument: ms03.i

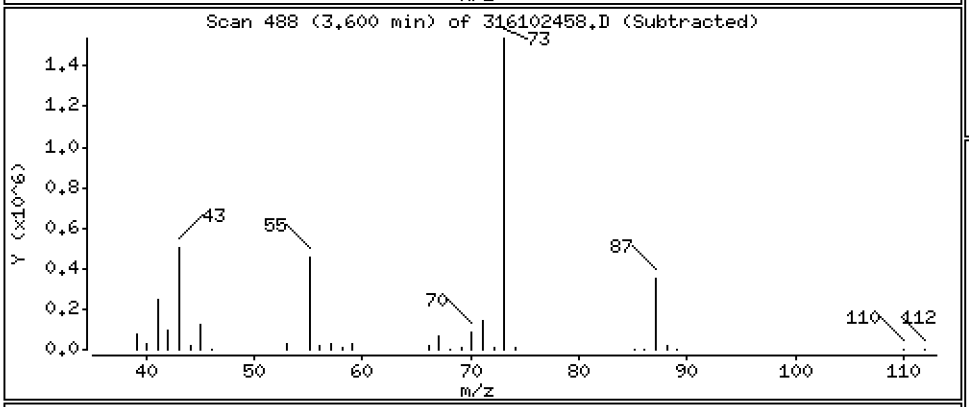
Sample Info: 1238;;1;1;5;;;

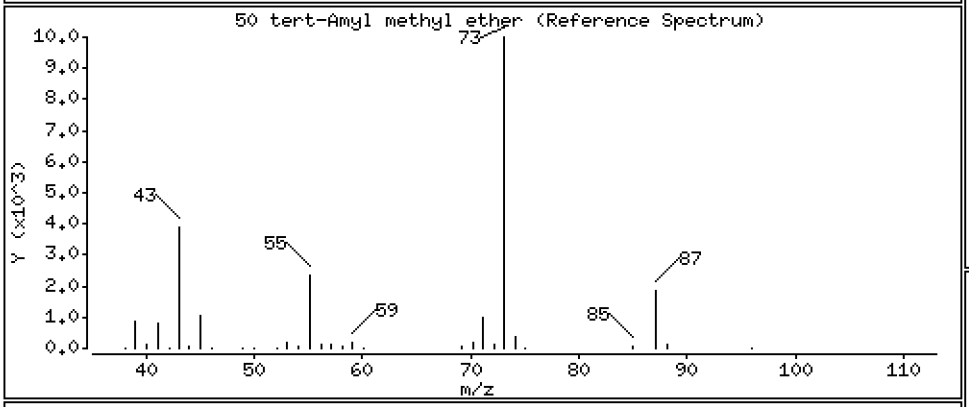
Purge Volume: 5.0 Operator: CJG

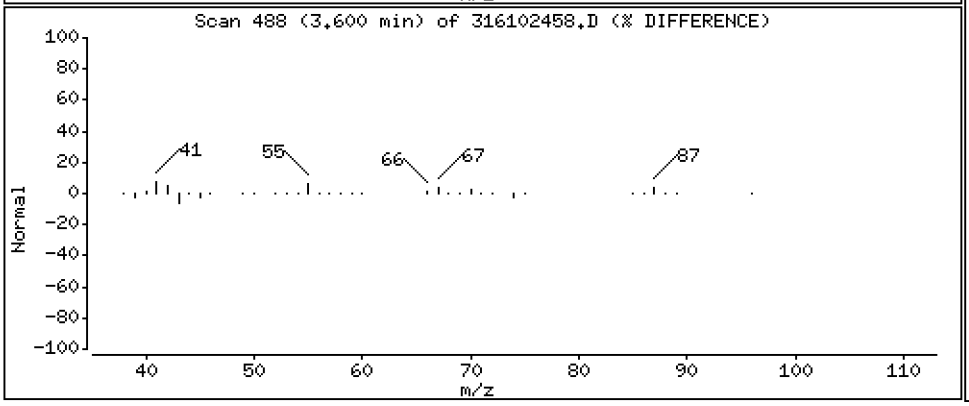
Column phase: DB-VRX Column diameter: 0.25

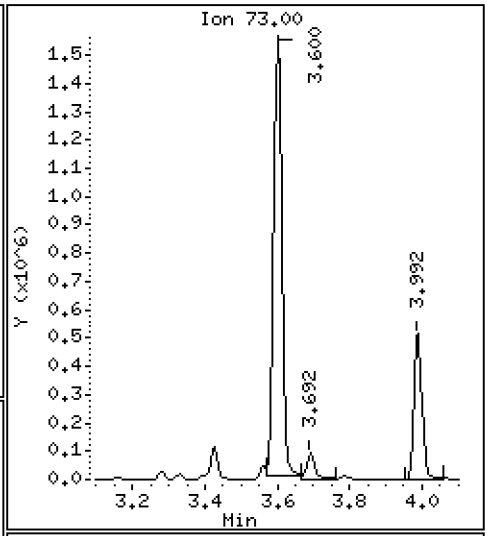
50 tert-Amyl methyl ether Concentration: 100.561 ug/L

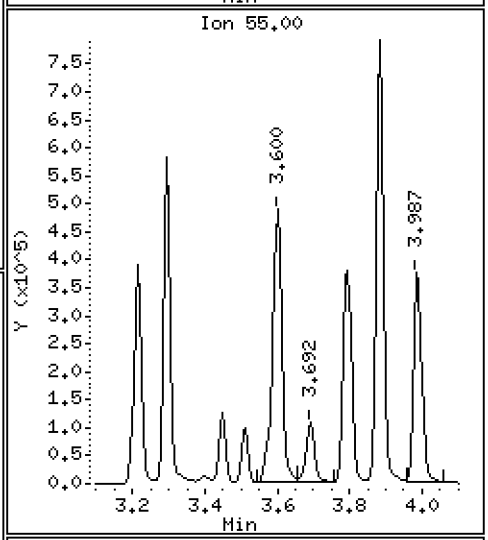


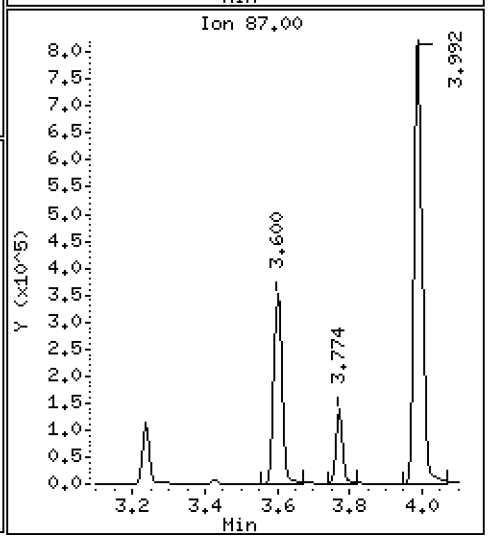












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 58

Date : 25-OCT-2016 01:14

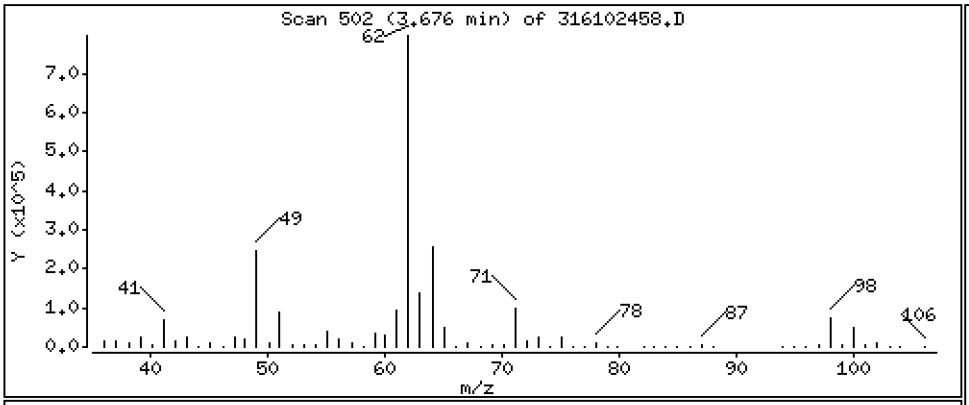
Client ID: Instrument: ms03.i

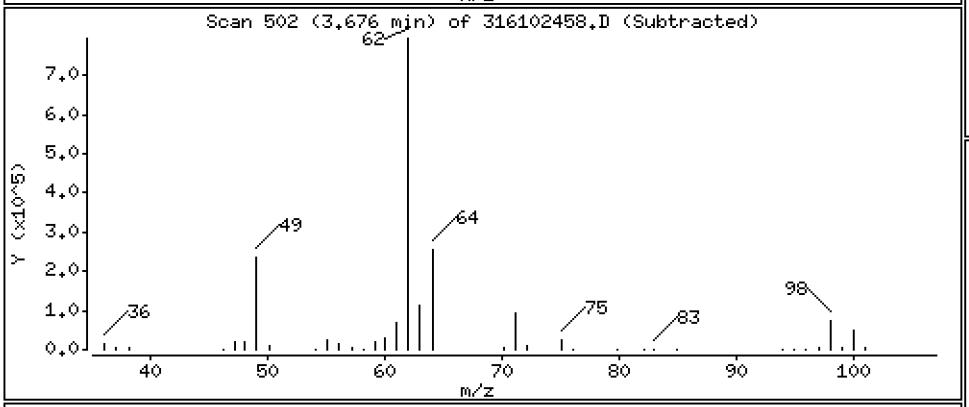
Sample Info: 1238;;1;1;5;;;

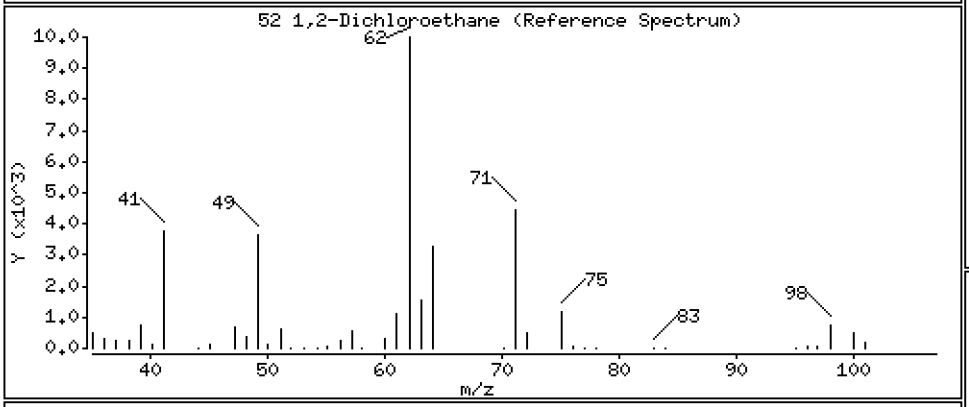
Purge Volume: 5.0 Operator: CJG

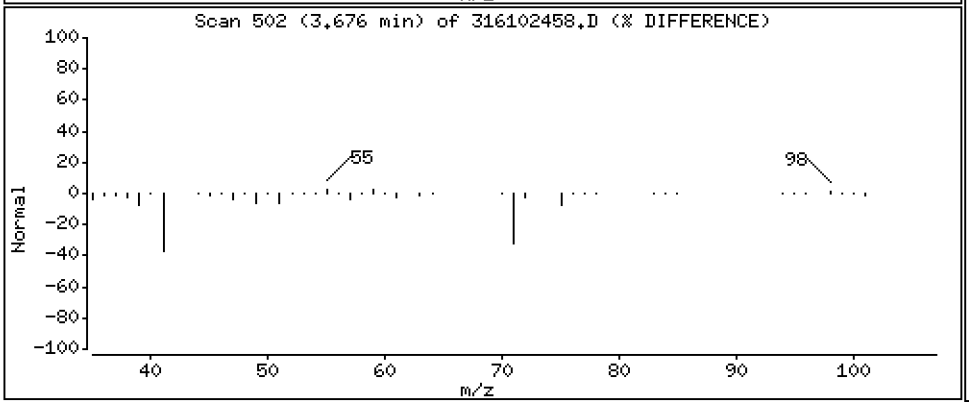
Column phase: DB-VRX Column diameter: 0.25

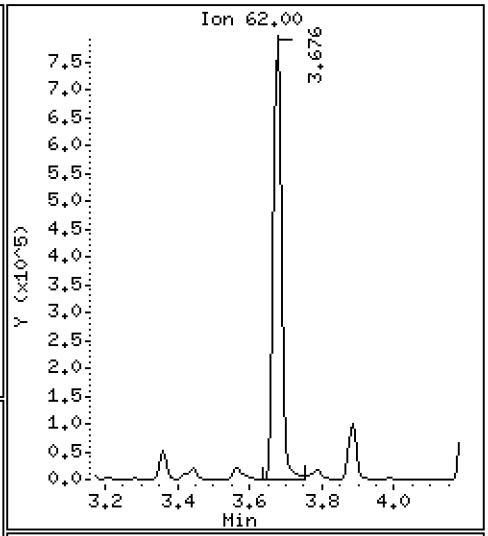
52 1,2-Dichloroethane Concentration: 99.9602 ug/L

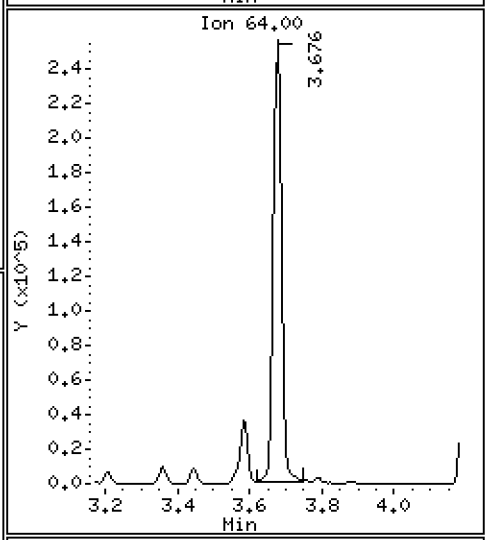


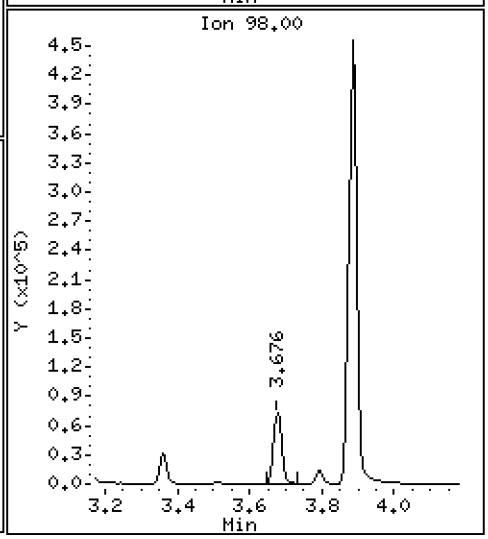












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 59

Date : 25-OCT-2016 01:14

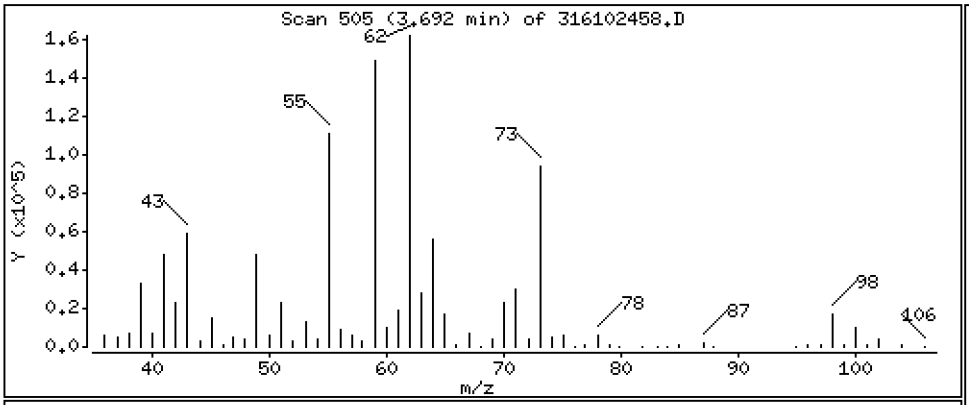
Client ID: Instrument: ms03.i

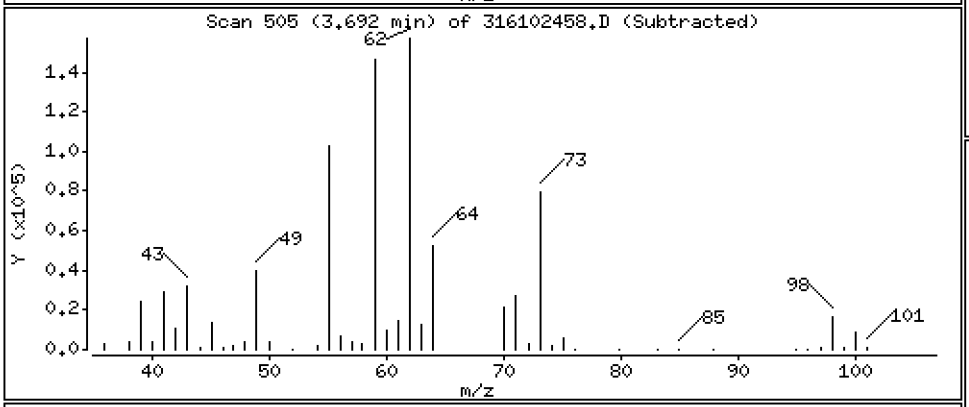
Sample Info: 1238;;1;1;5;;;

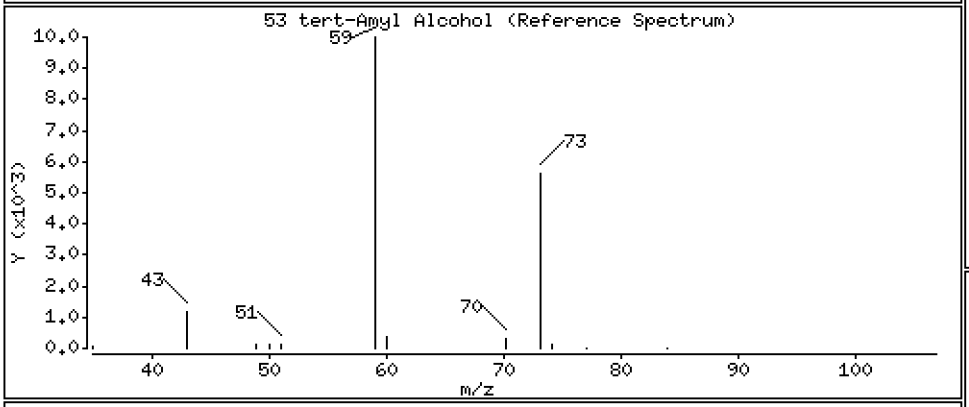
Purge Volume: 5.0 Operator: CJG

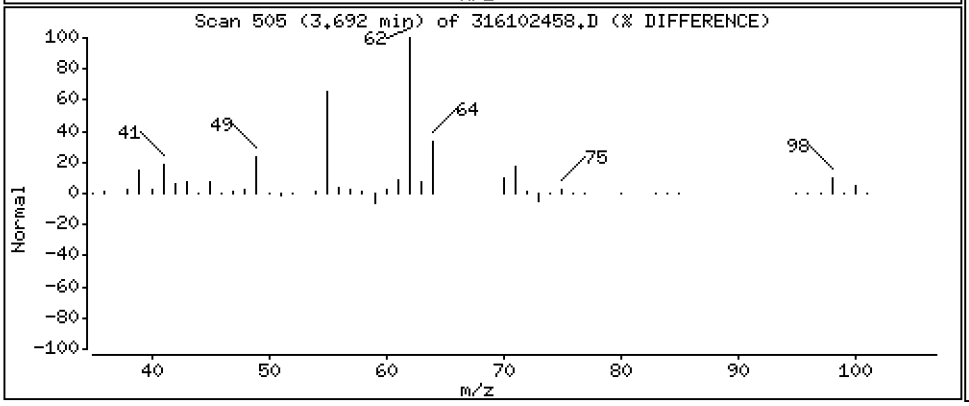
Column phase: DB-VRX Column diameter: 0.25

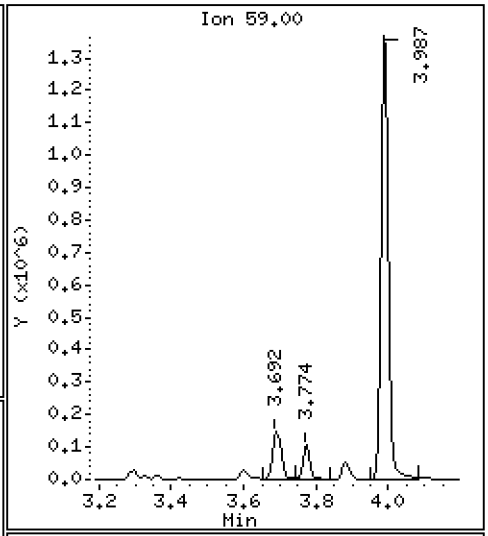
53 tert-Amyl Alcohol Concentration: 497.132 ug/L

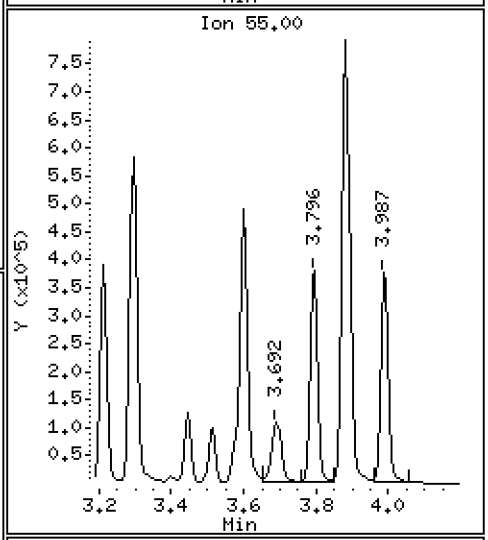


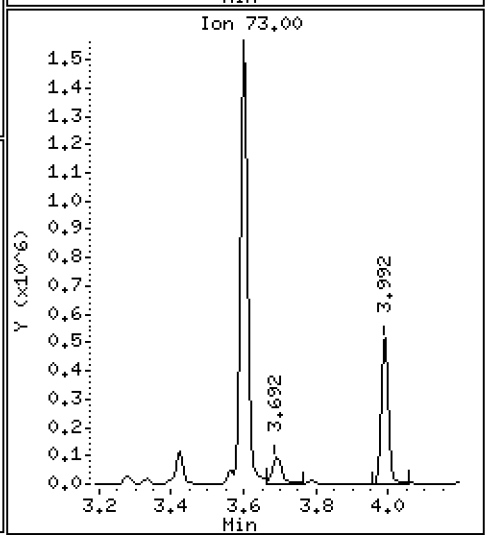












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 60

Date : 25-OCT-2016 01:14

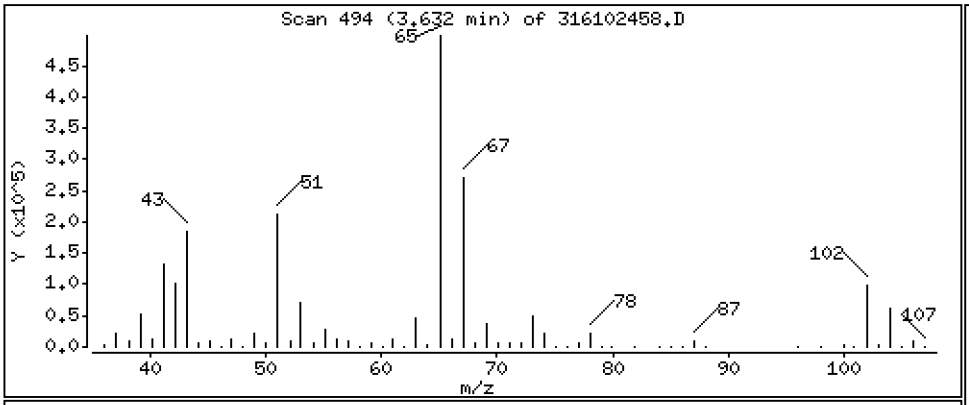
Client ID: Instrument: ms03.i

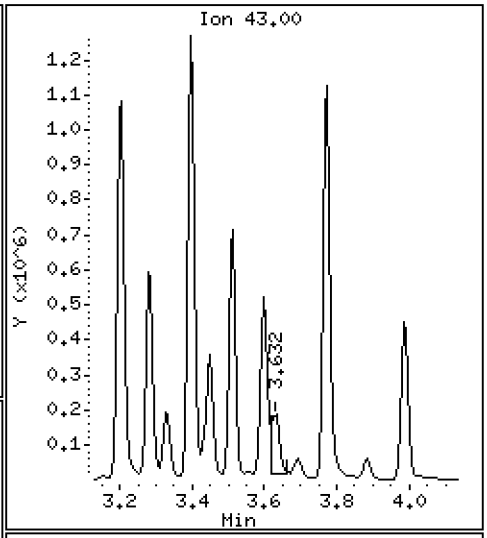
Sample Info: 1238;;1;1;5;;;

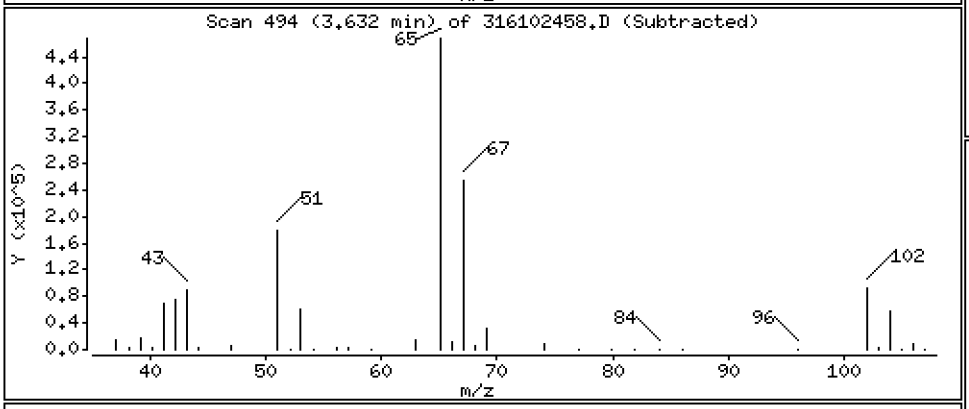
Purge Volume: 5.0 Operator: CJG

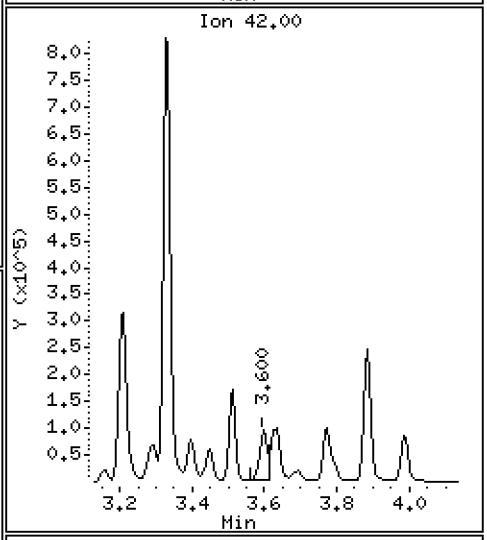
Column phase: DB-VRX Column diameter: 0.25

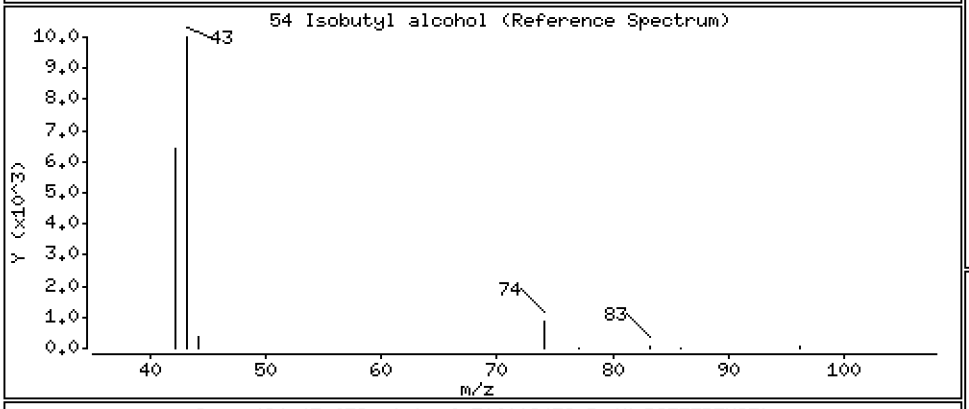
54 Isobutyl alcohol Concentration: 962.747 ug/L

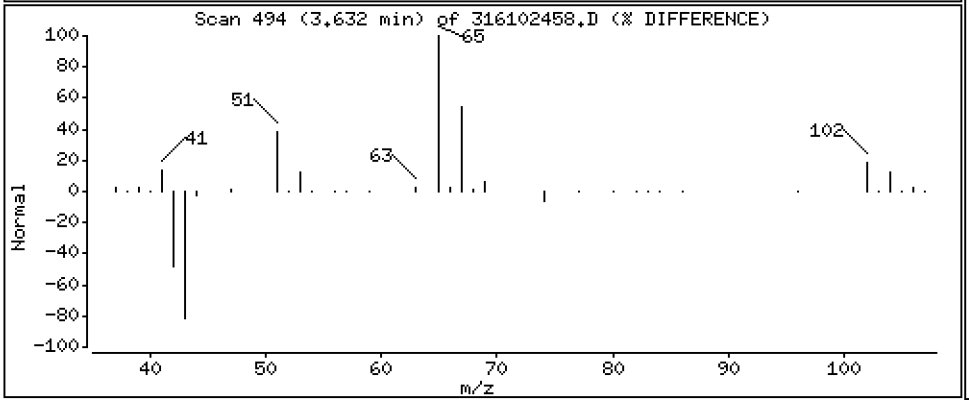


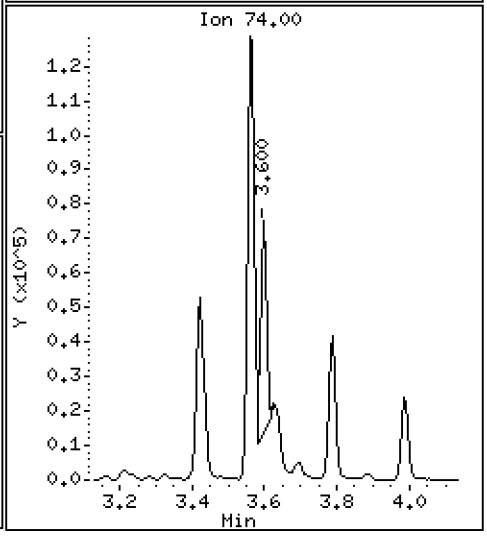












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 61

Date : 25-OCT-2016 01:14

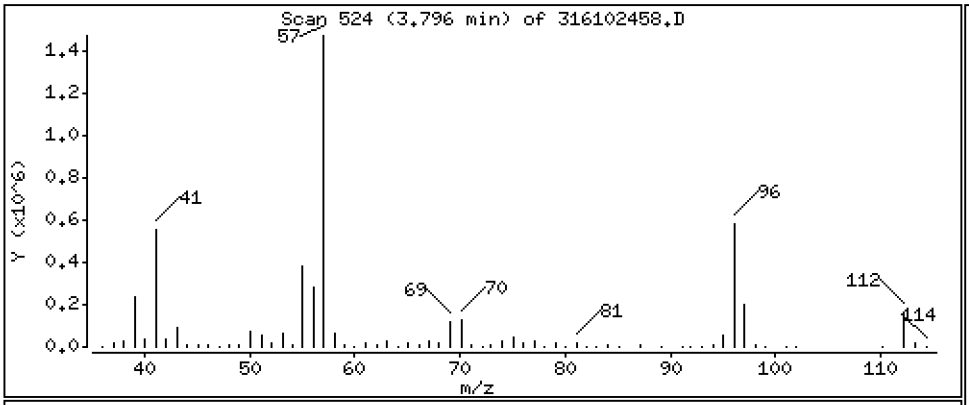
Client ID: Instrument: ms03.i

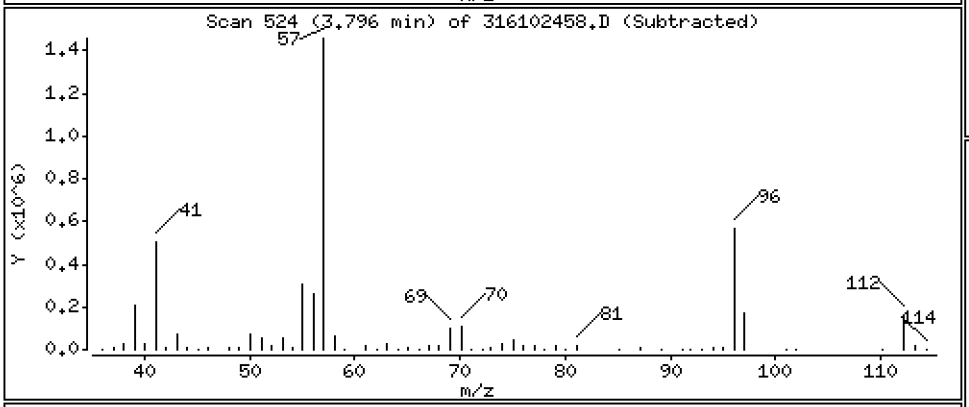
Sample Info: 1238;;1;1;5;;;

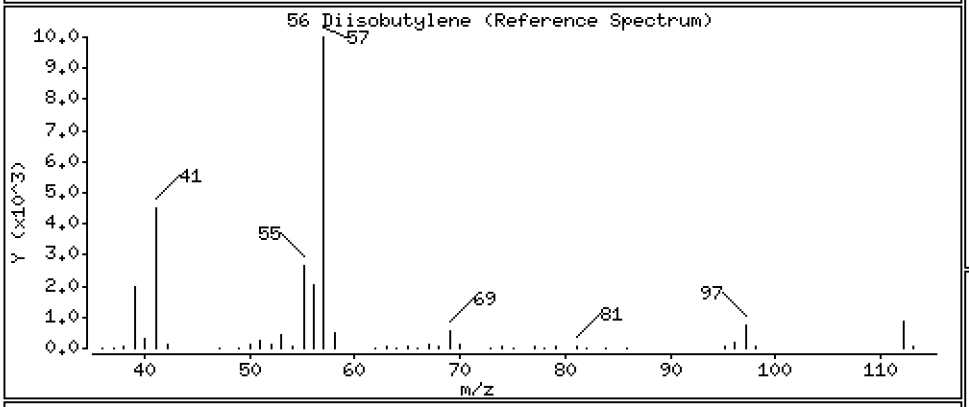
Purge Volume: 5.0 Operator: CJG

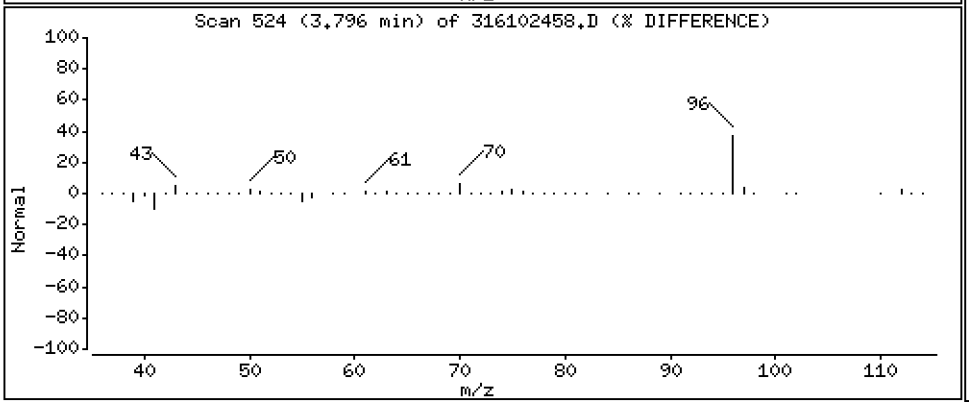
Column phase: DB-VRX Column diameter: 0.25

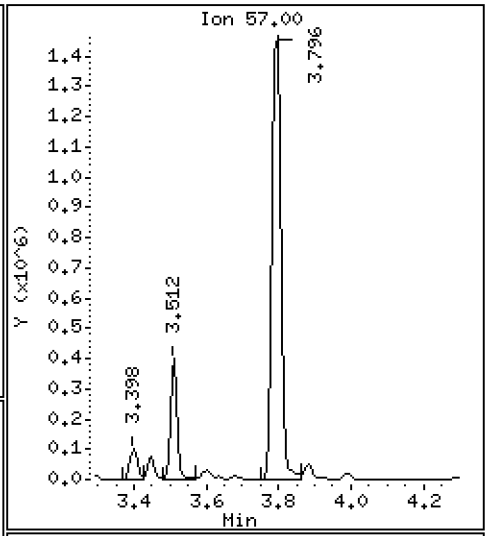
56 Diisobutylene Concentration: 100.003 ug/L

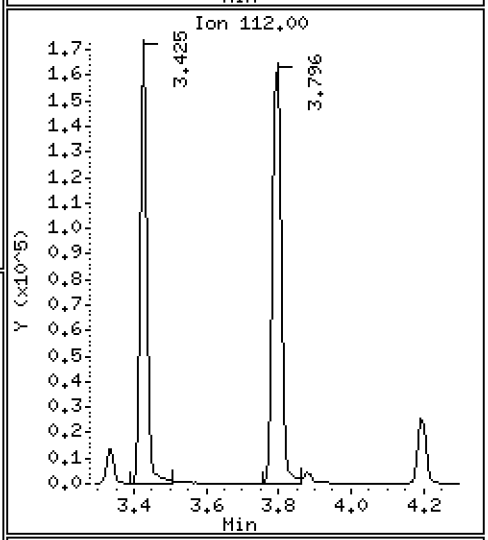


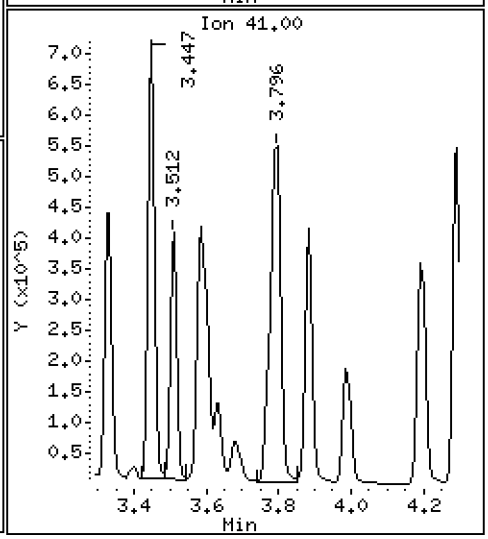












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 62

Date : 25-OCT-2016 01:14

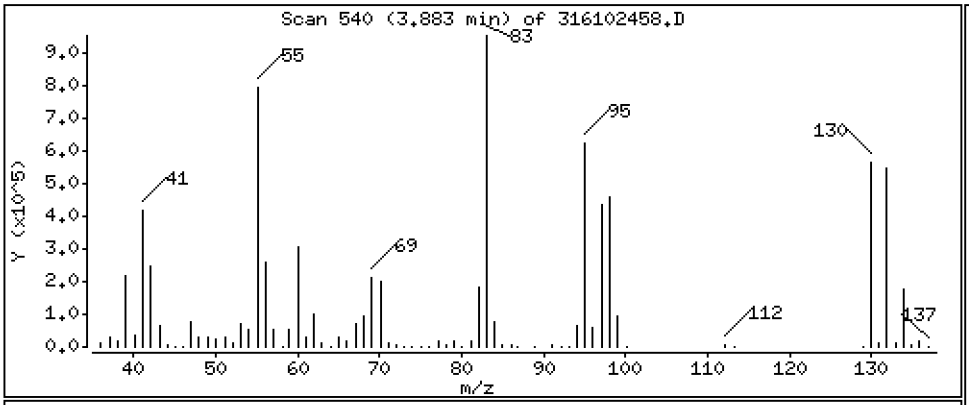
Client ID: Instrument: ms03.i

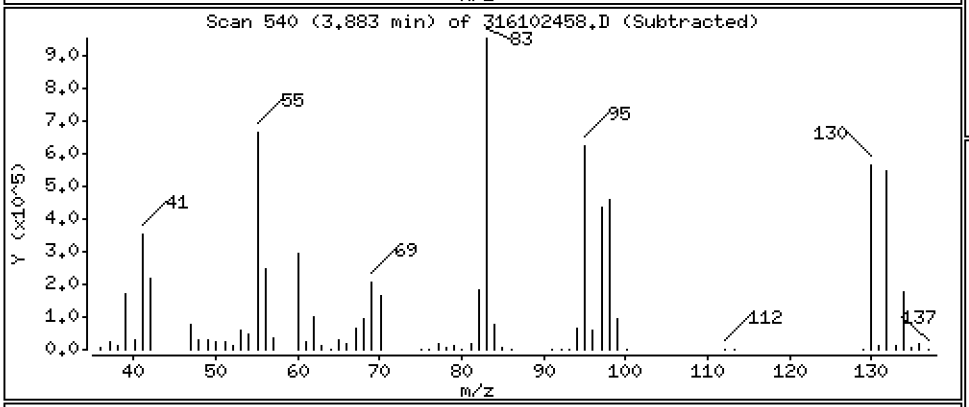
Sample Info: 1238;;1;1;5;;;

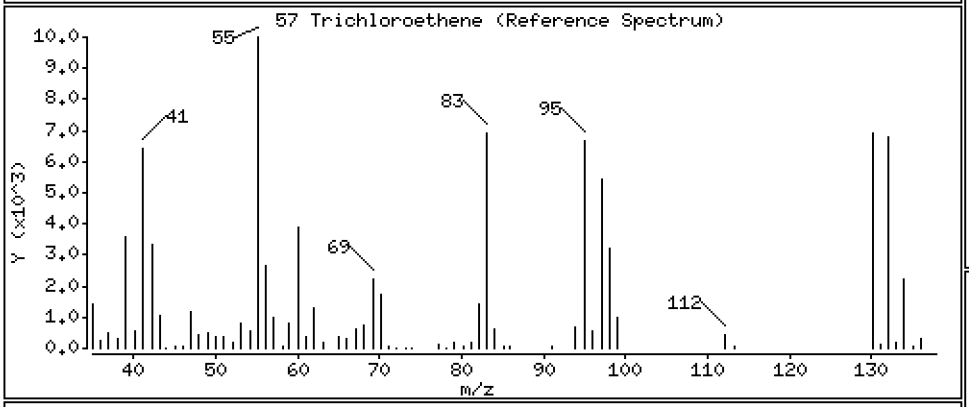
Purge Volume: 5.0 Operator: CJG

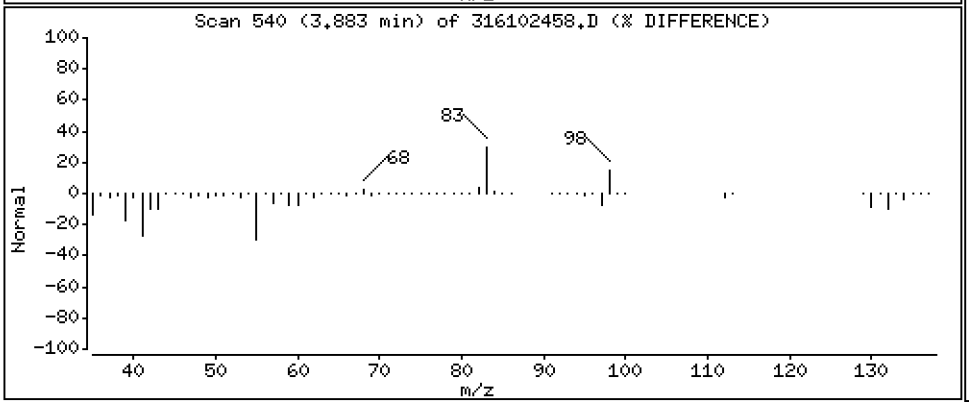
Column phase: DB-VRX Column diameter: 0.25

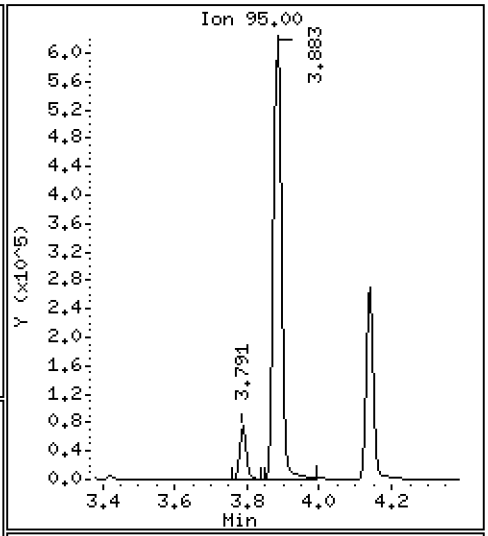
57 Trichloroethene Concentration: 99.7120 ug/L

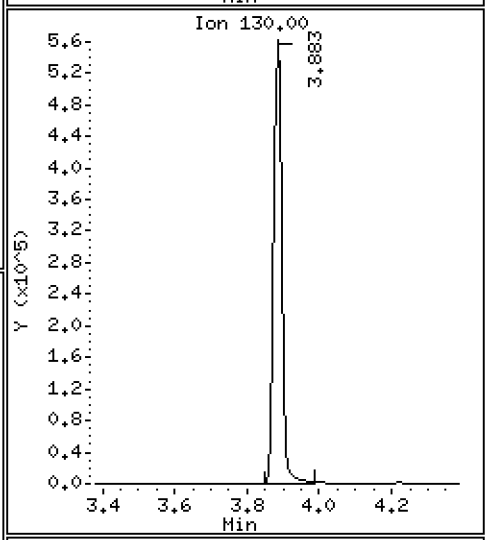


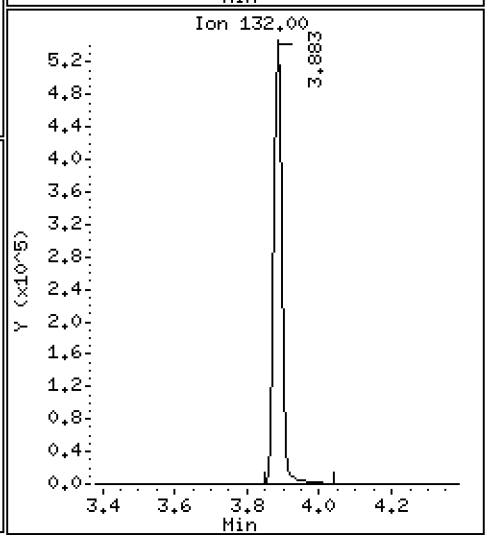












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 63

Date : 25-OCT-2016 01:14

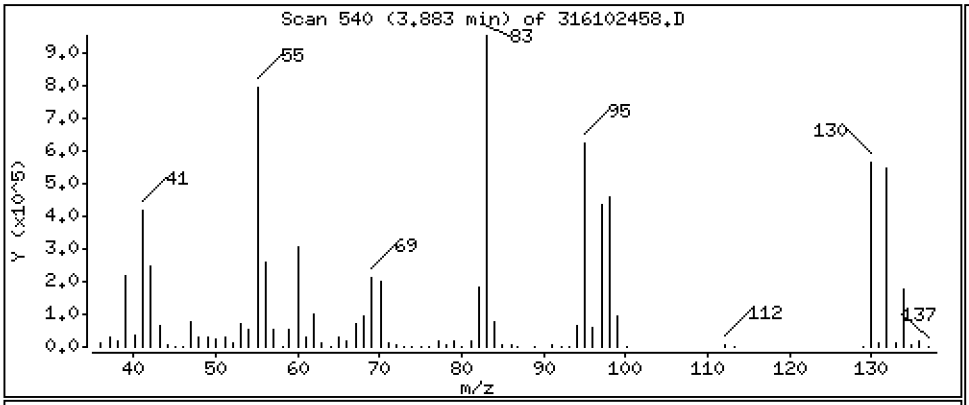
Client ID: Instrument: ms03.i

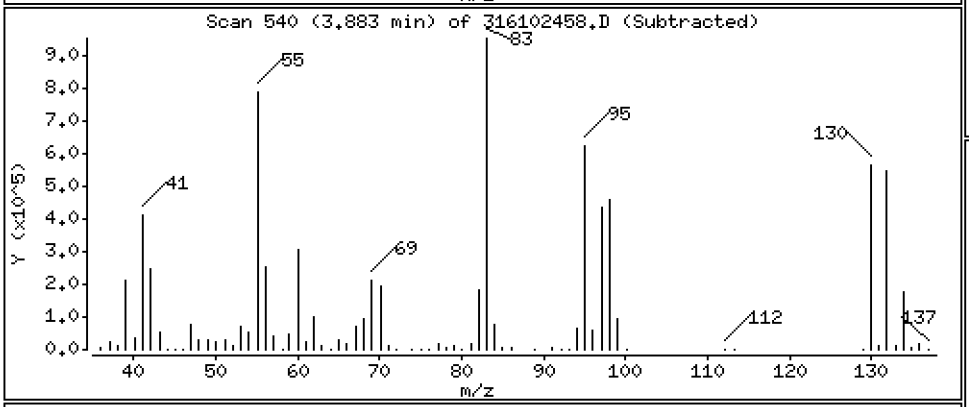
Sample Info: 1238;;1;1;5;;;

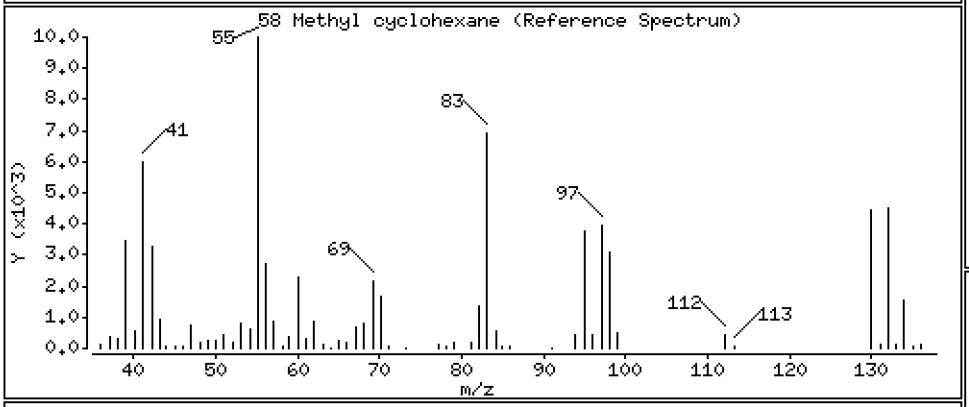
Purge Volume: 5.0 Operator: CJG

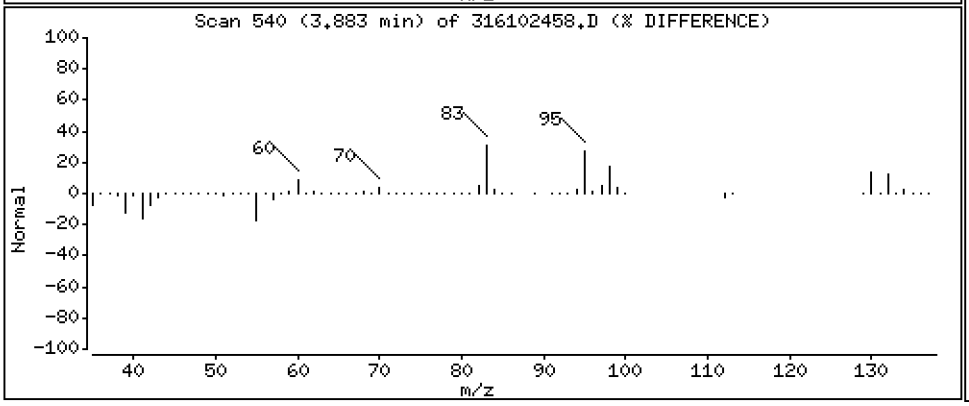
Column phase: DB-VRX Column diameter: 0.25

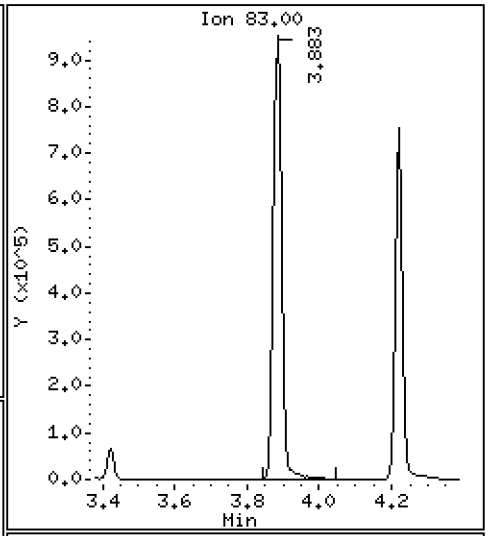
58 Methyl cyclohexane Concentration: 99.5157 ug/L

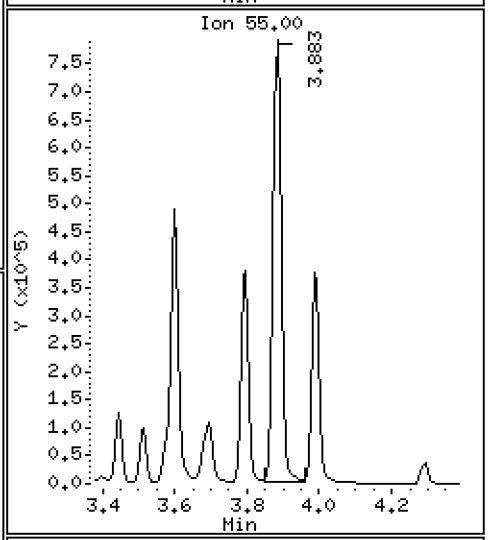


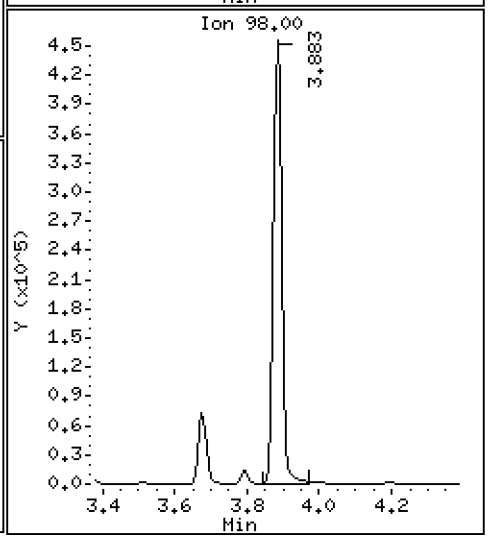












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 64

Date : 25-OCT-2016 01:14

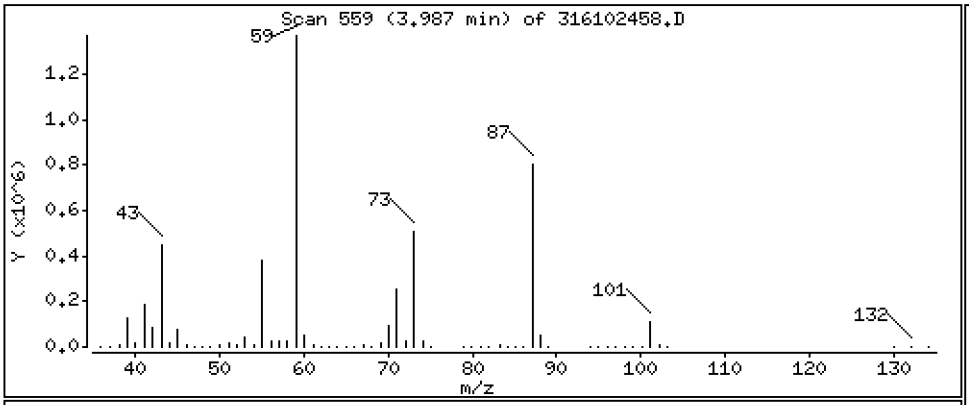
Client ID: Instrument: ms03.i

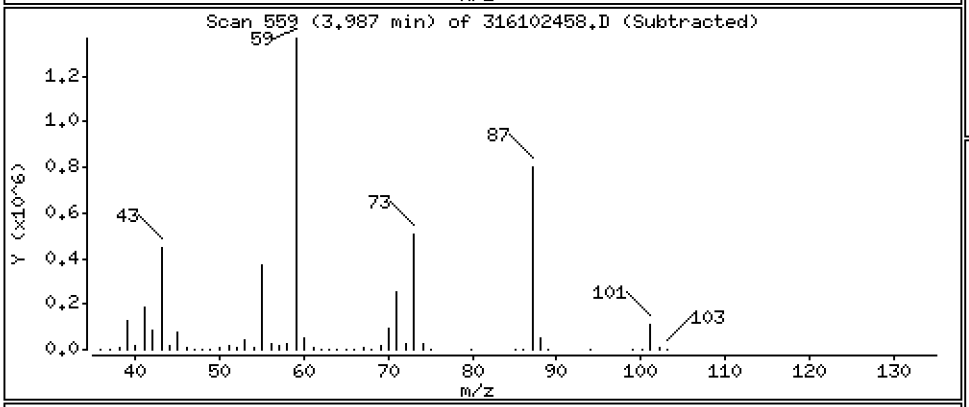
Sample Info: 1238;;1;1;5;;;

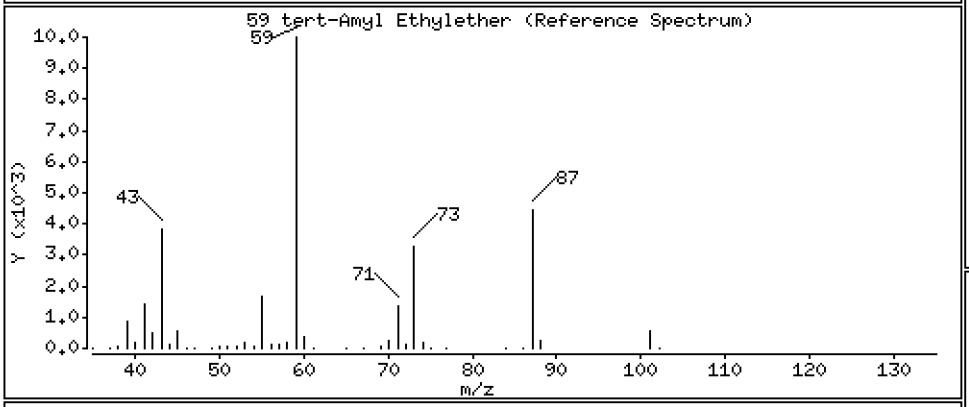
Purge Volume: 5.0 Operator: CJG

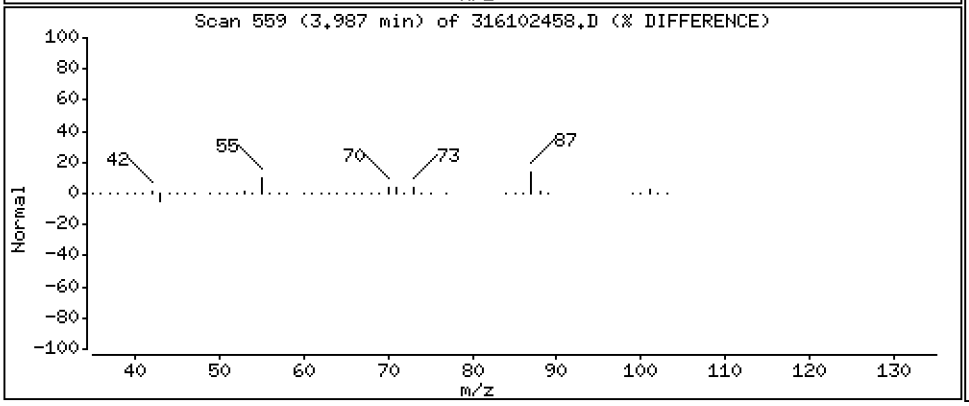
Column phase: DB-VRX Column diameter: 0.25

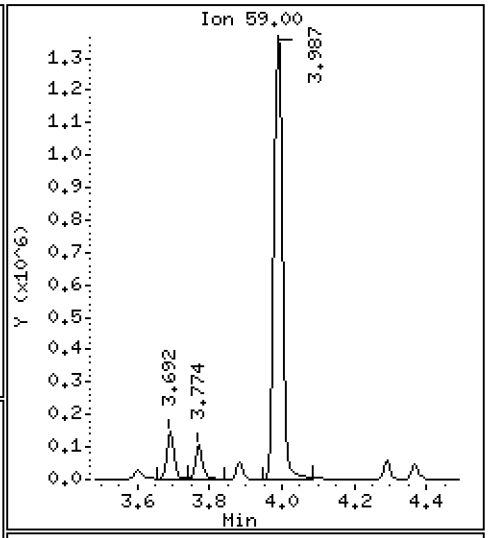
59 tert-Amyl Ethylether Concentration: 101.139 ug/L

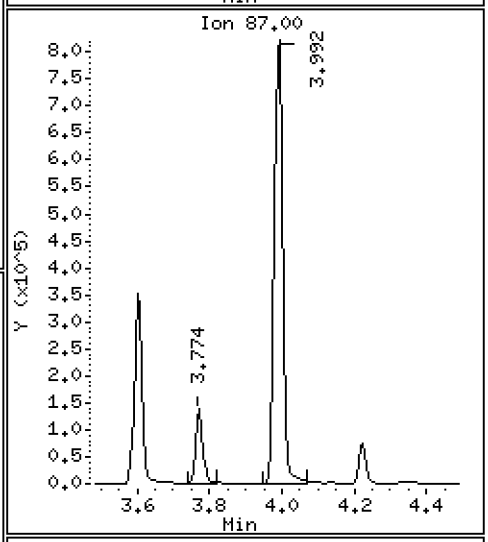


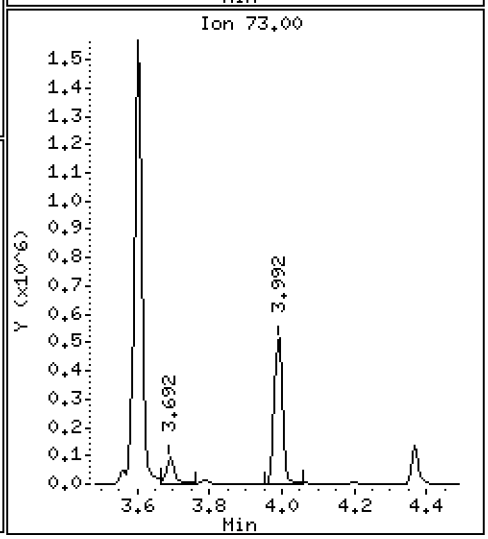












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 65

Date : 25-OCT-2016 01:14

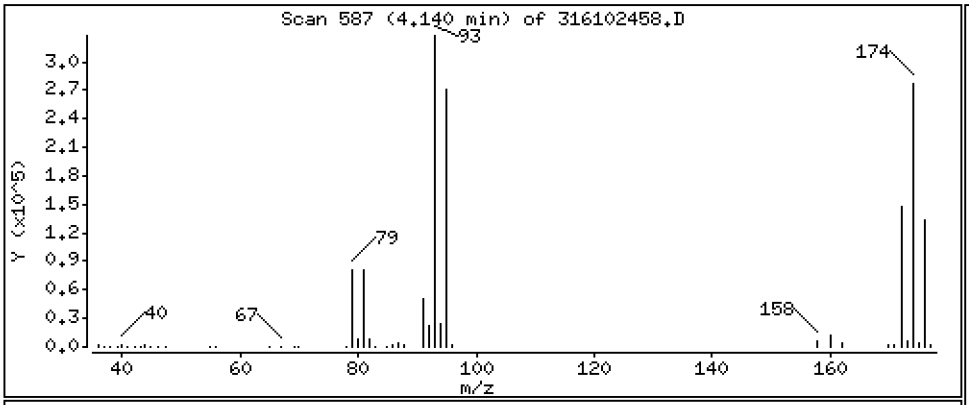
Client ID: Instrument: ms03.i

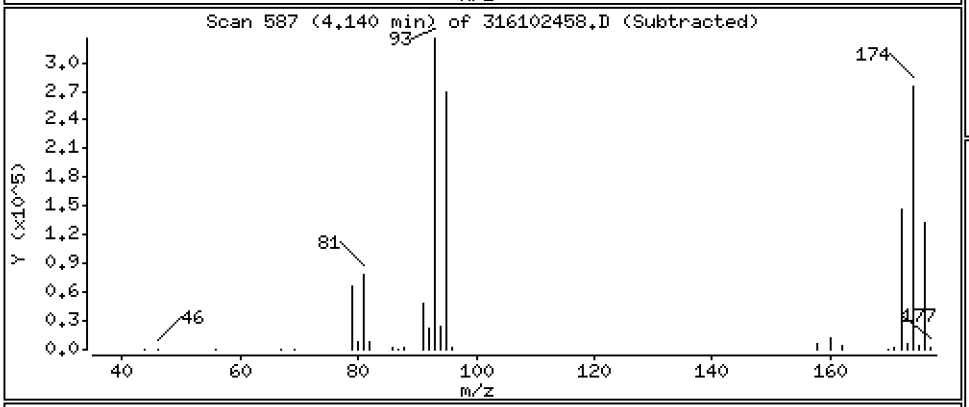
Sample Info: 1238;;1;1;5;;;

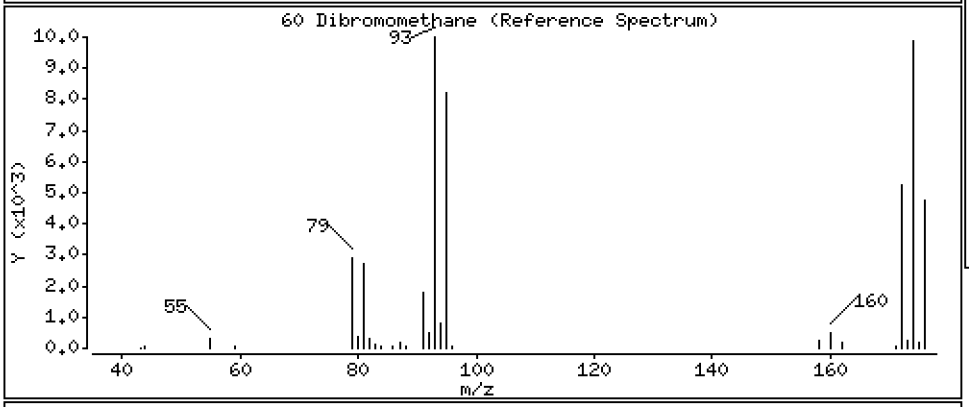
Purge Volume: 5.0 Operator: CJG

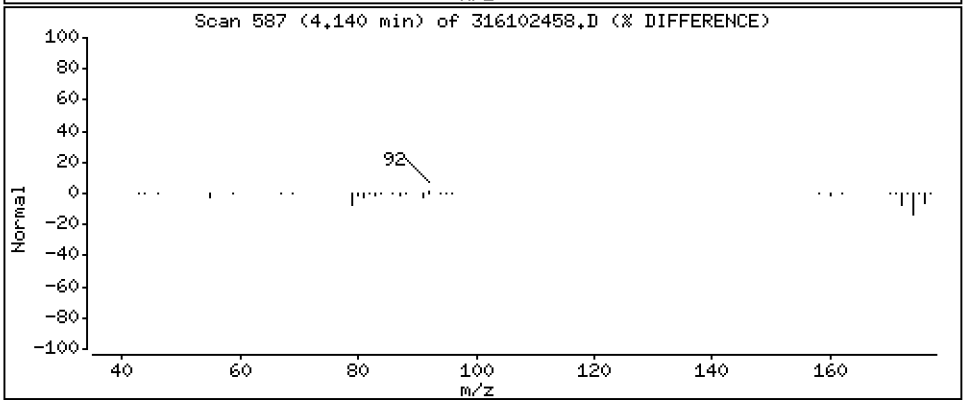
Column phase: DB-VRX Column diameter: 0.25

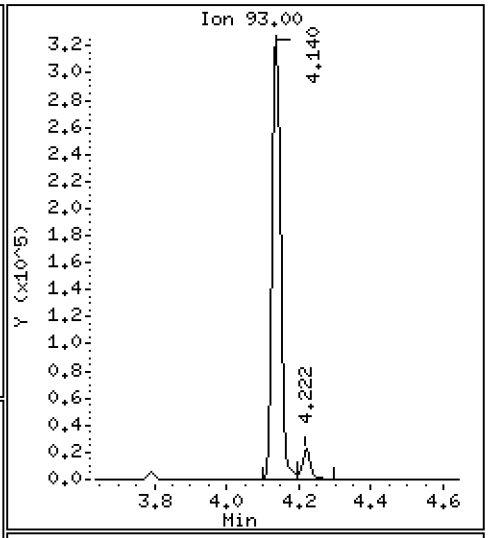
60 Dibromomethane Concentration: 100.487 ug/L

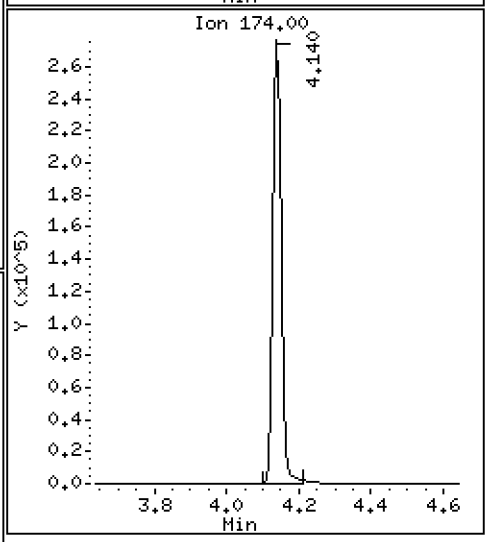












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 66

Date : 25-OCT-2016 01:14

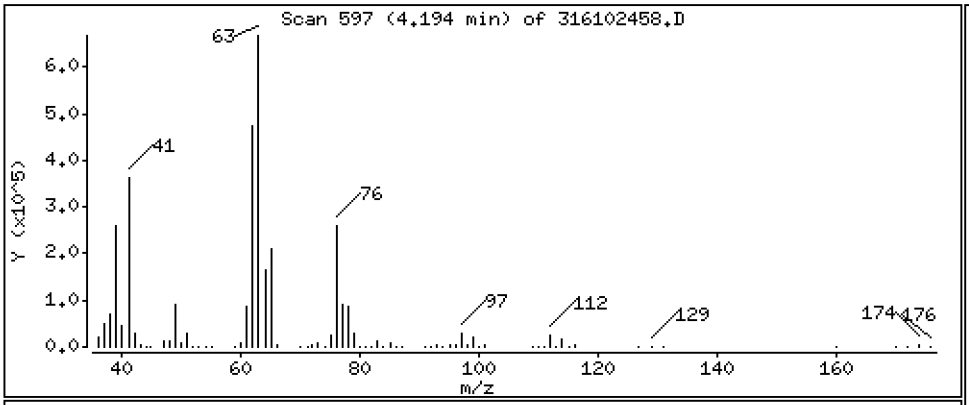
Client ID: Instrument: ms03.i

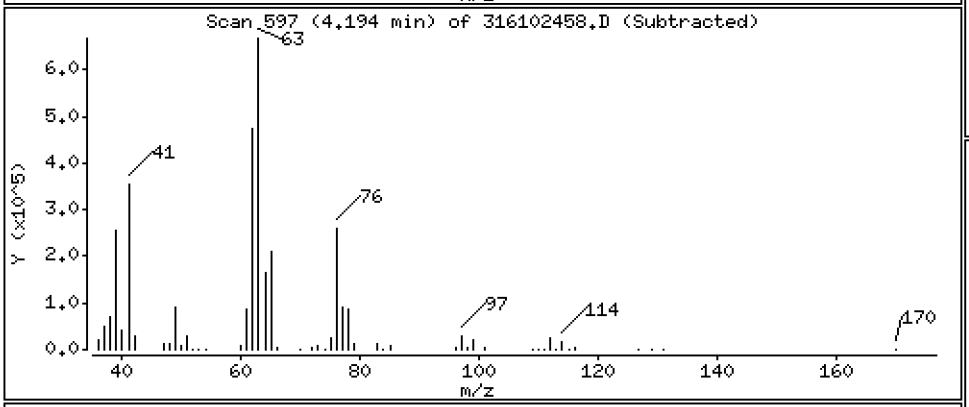
Sample Info: 1238;;1;1;5;;;

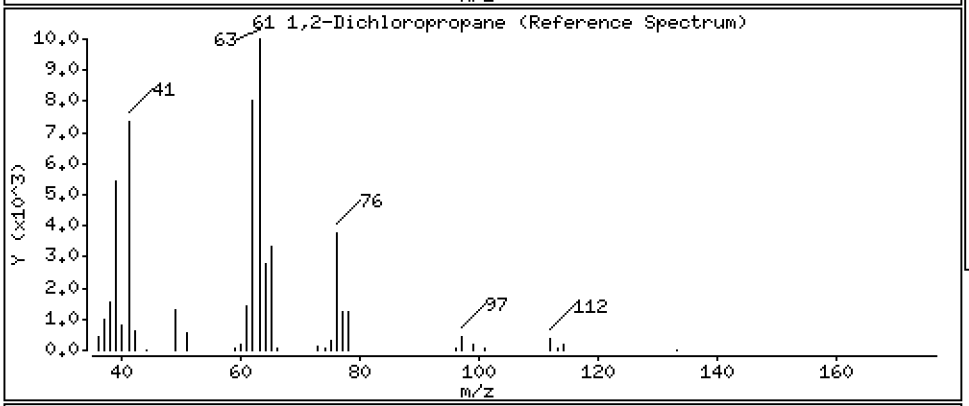
Purge Volume: 5.0 Operator: CJG

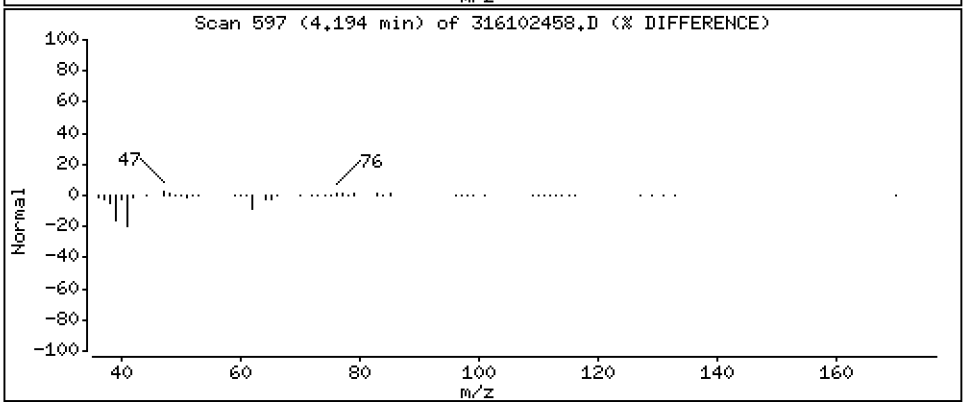
Column phase: DB-VRX Column diameter: 0.25

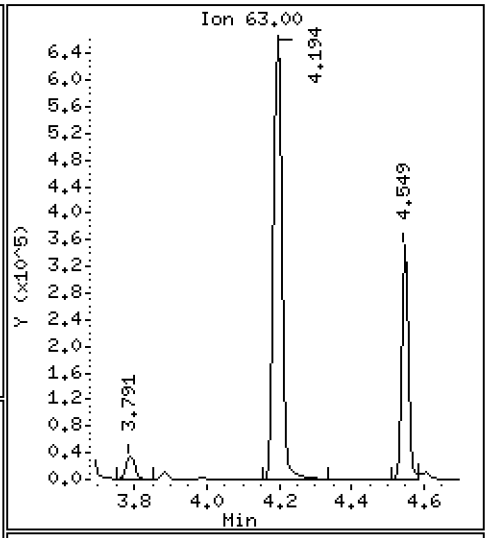
61 1,2-Dichloropropane Concentration: 100.371 ug/L

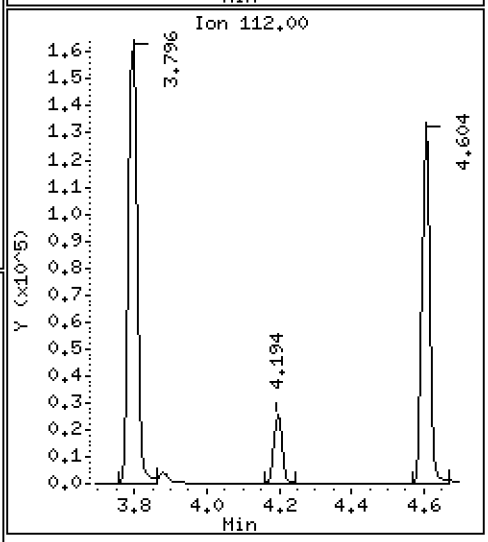












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 67

Date : 25-OCT-2016 01:14

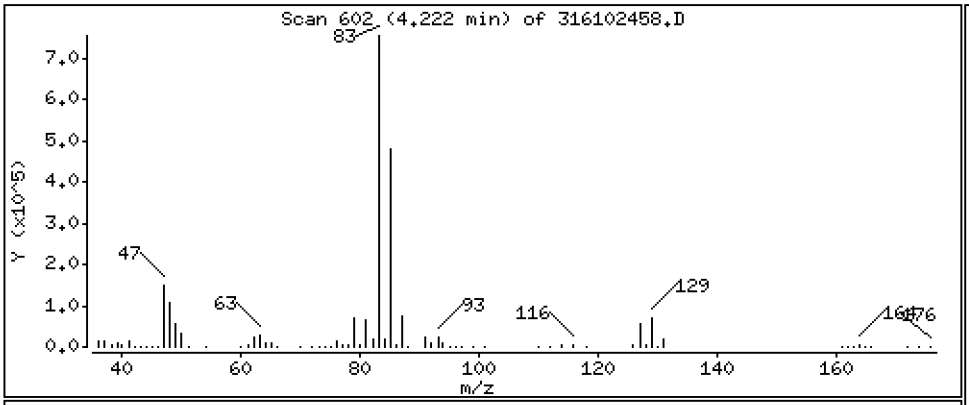
Client ID: Instrument: ms03.i

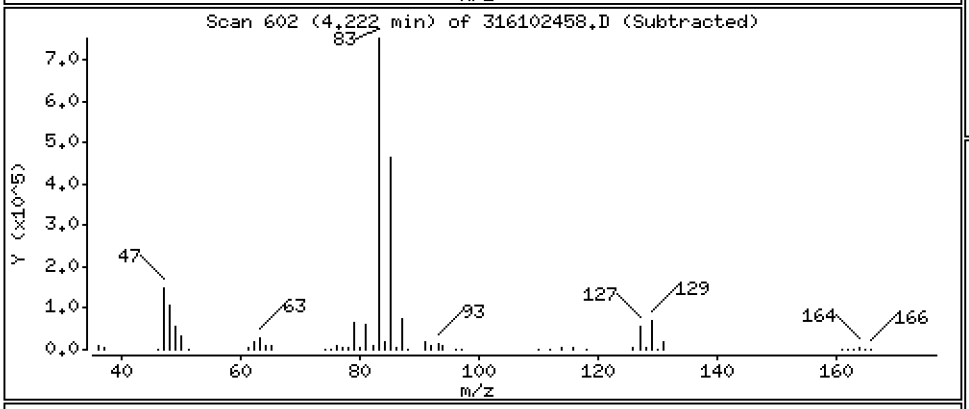
Sample Info: 1238;;1;1;5;;;

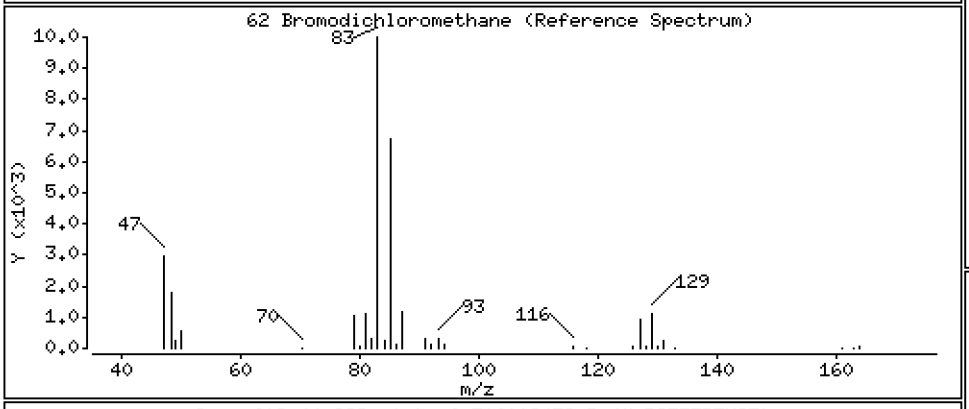
Purge Volume: 5.0 Operator: CJG

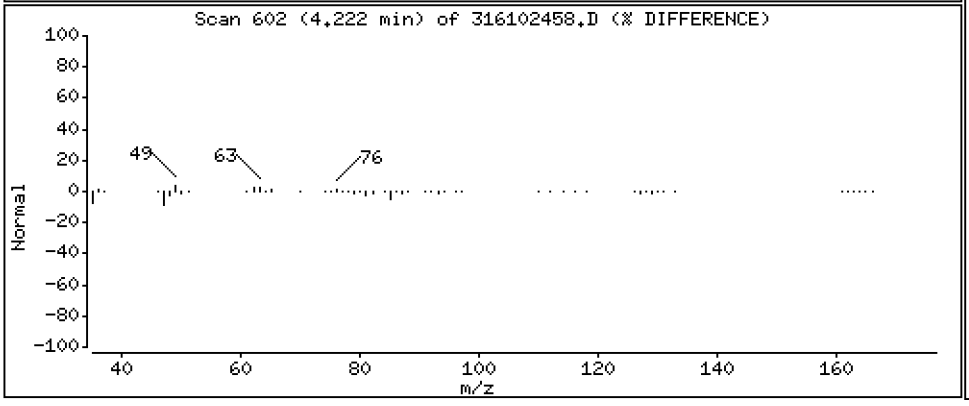
Column phase: DB-VRX Column diameter: 0.25

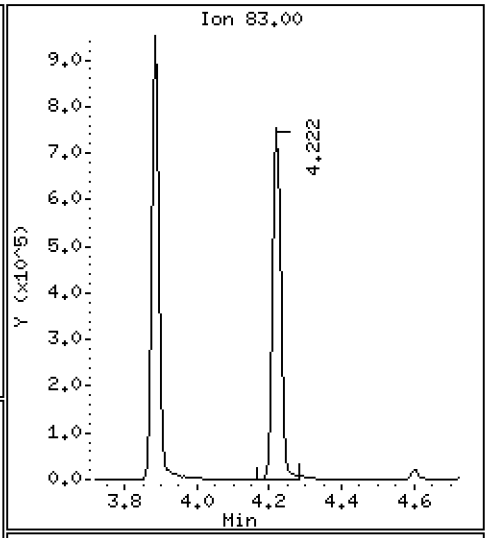
62 Bromodichloromethane Concentration: 100.661 ug/L

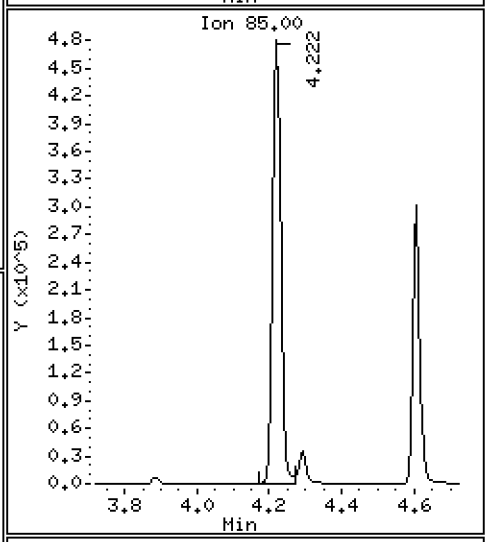


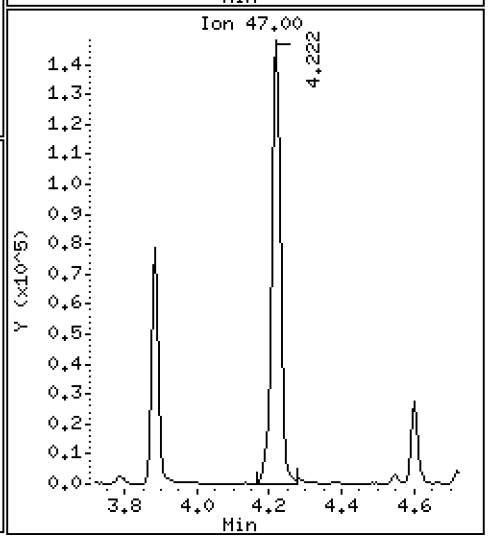












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 68

Date : 25-OCT-2016 01:14

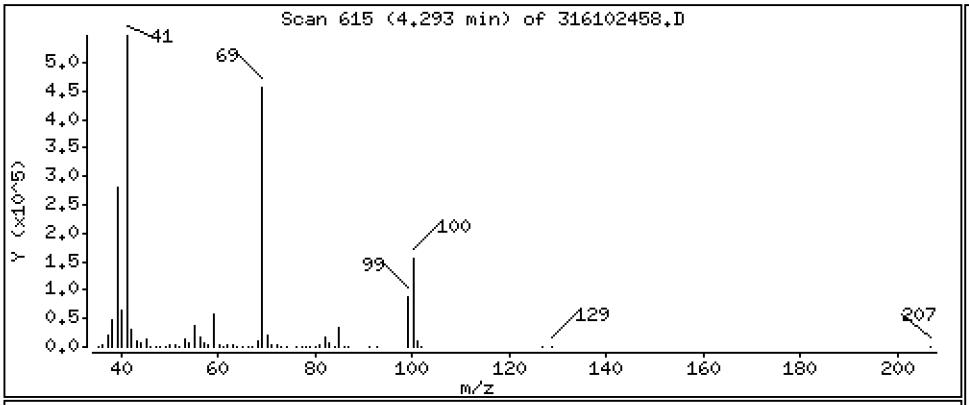
Client ID: Instrument: ms03.i

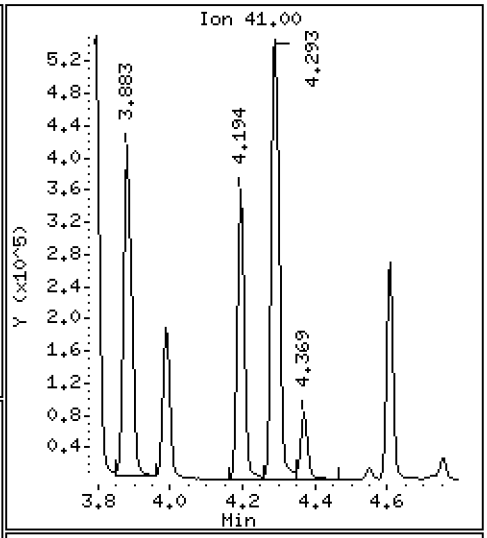
Sample Info: 1238;;1;1;5;;;

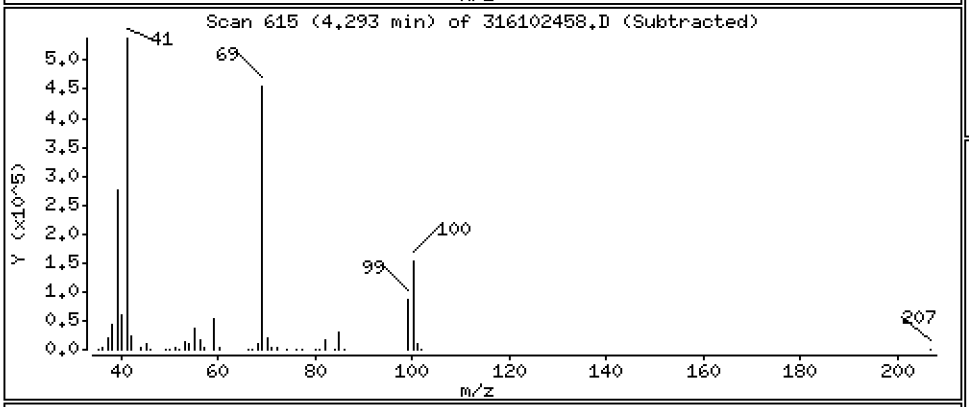
Purge Volume: 5.0 Operator: CJG

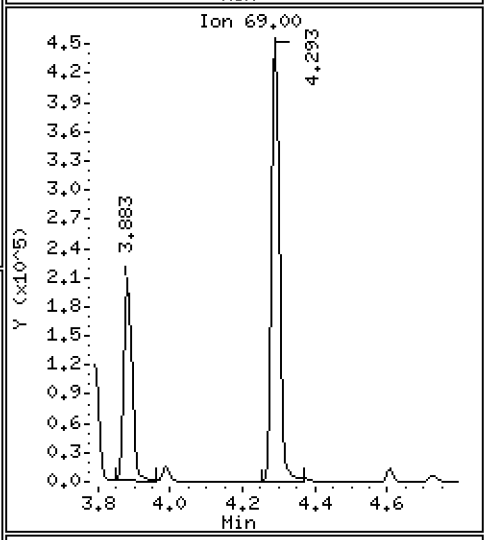
Column phase: DB-VRX Column diameter: 0.25

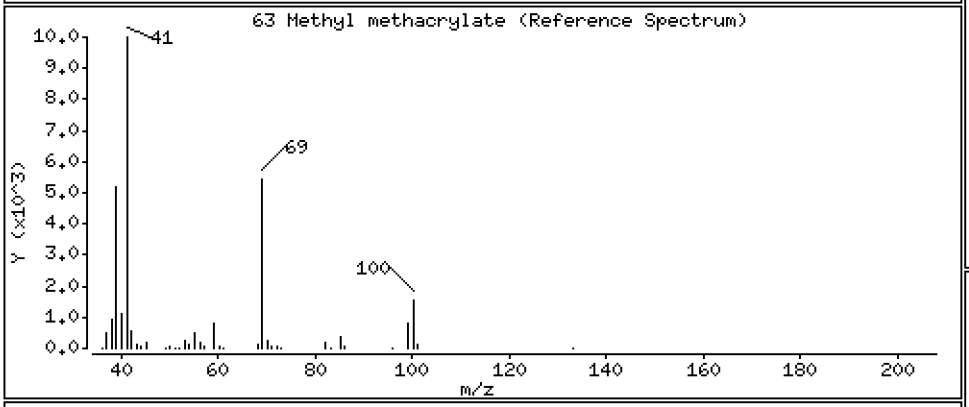
63 Methyl methacrylate Concentration: 101.373 ug/L

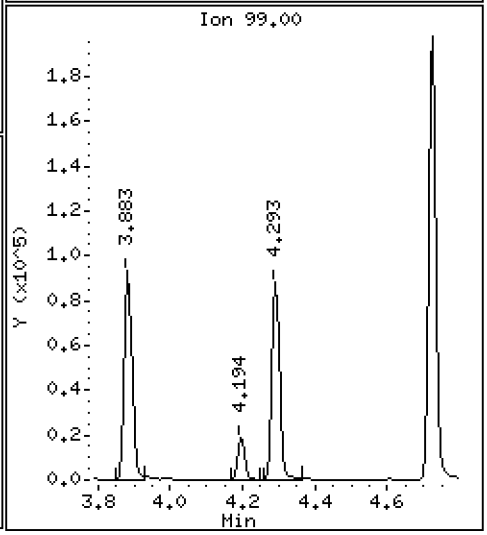


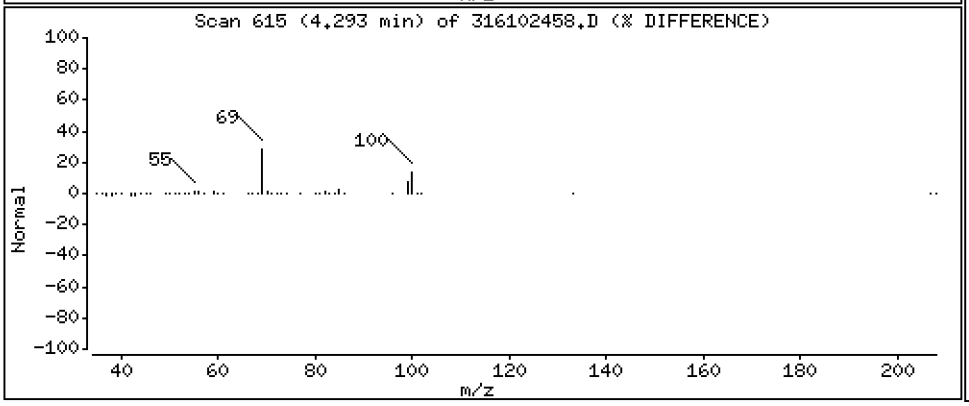












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 69

Date : 25-OCT-2016 01:14

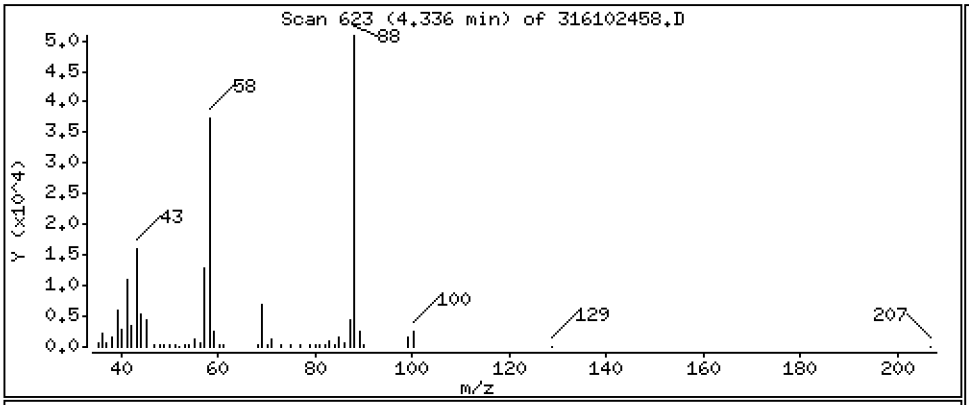
Client ID: Instrument: ms03.i

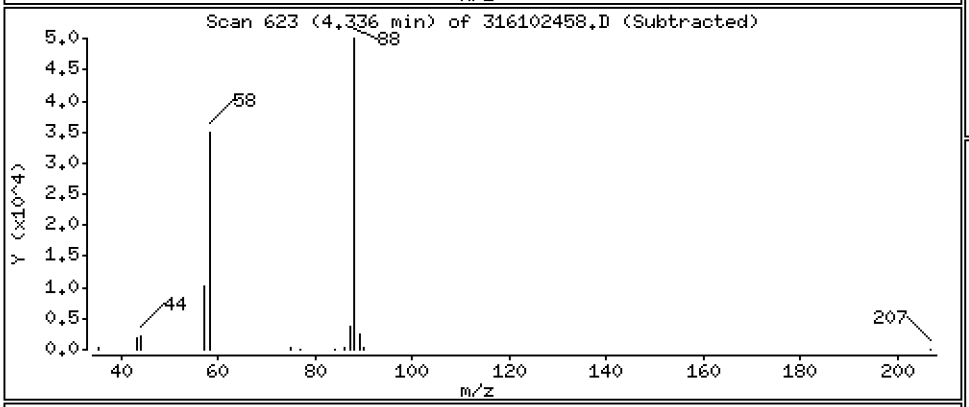
Sample Info: 1238;;1;1;5;;;

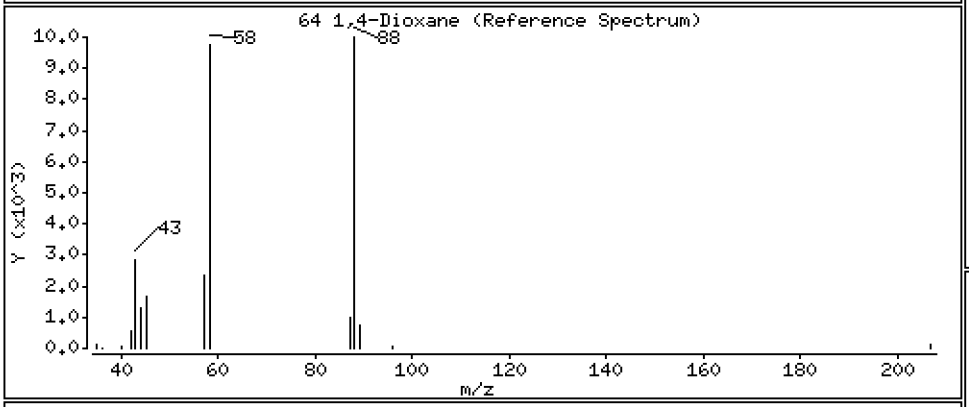
Purge Volume: 5.0 Operator: CJG

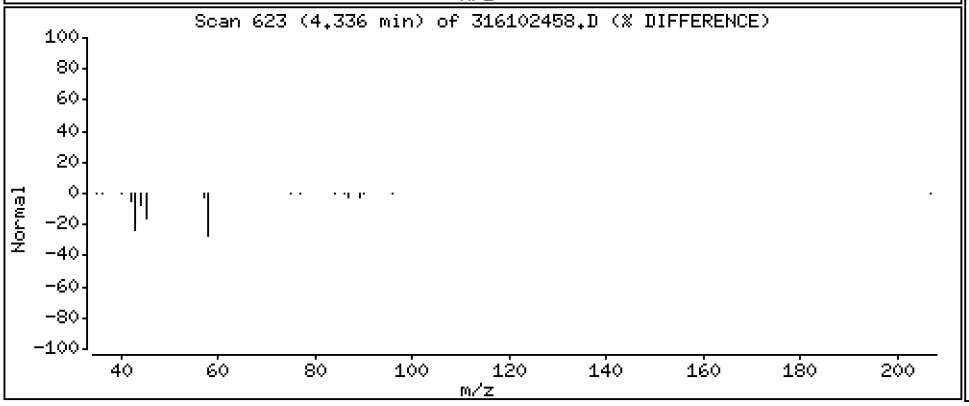
Column phase: DB-VRX Column diameter: 0.25

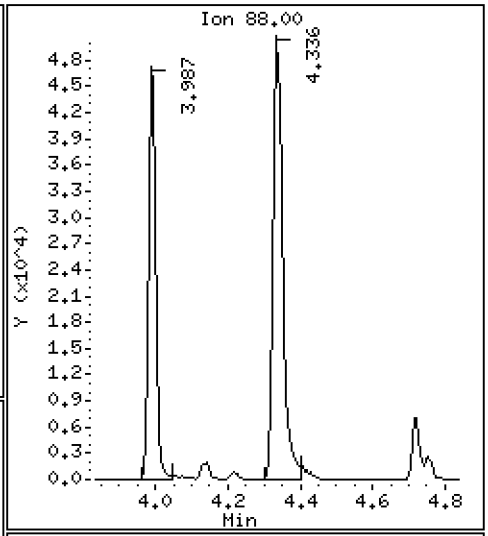
64 1,4-Dioxane Concentration: 2489.20 ug/L

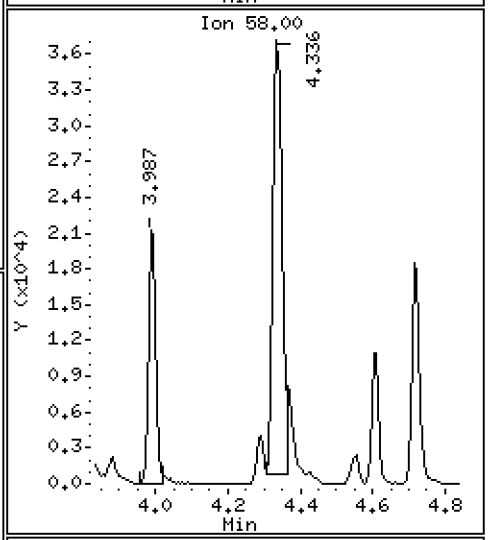


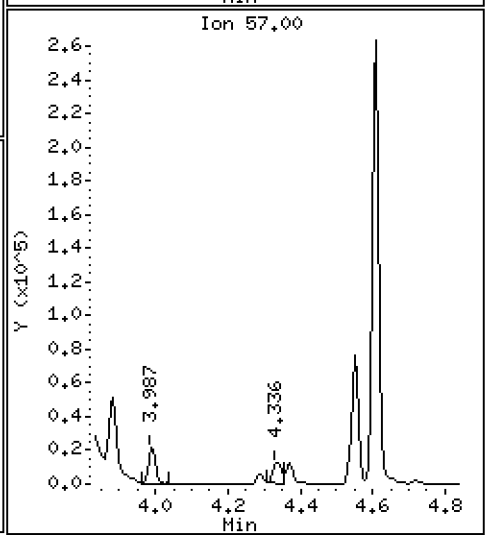












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 70

Date : 25-OCT-2016 01:14

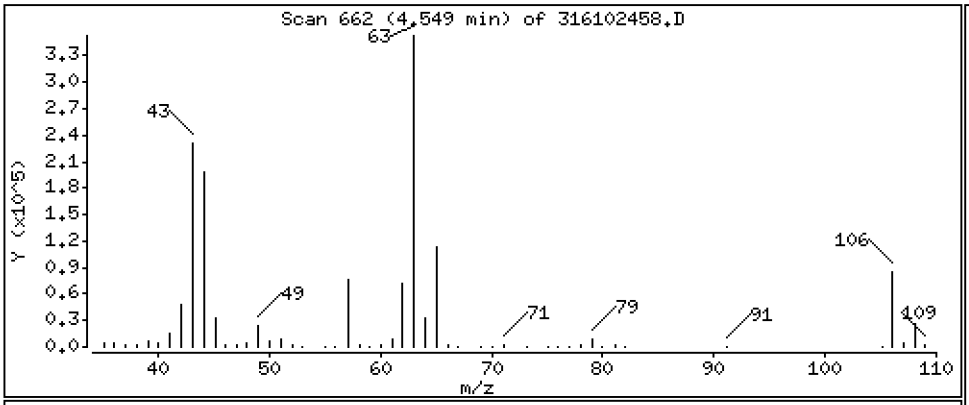
Client ID: Instrument: ms03.i

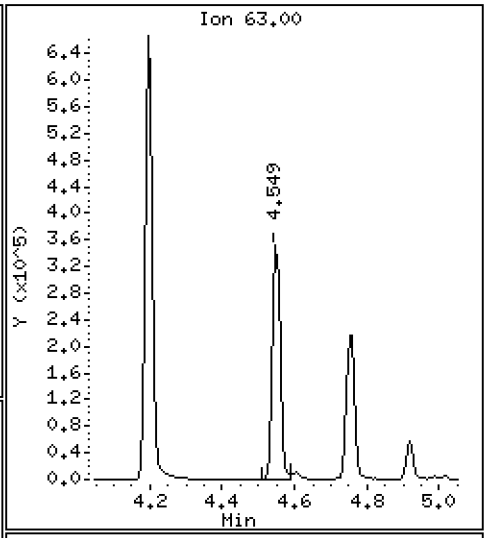
Sample Info: 1238;;1;1;5;;;

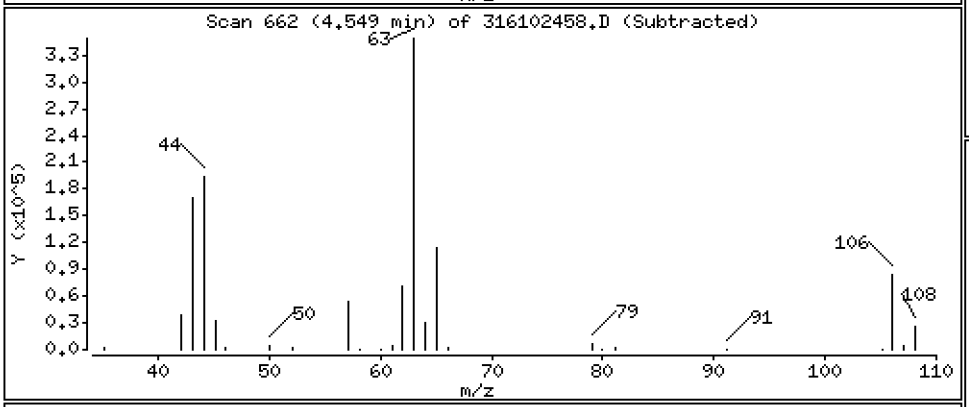
Purge Volume: 5.0 Operator: CJG

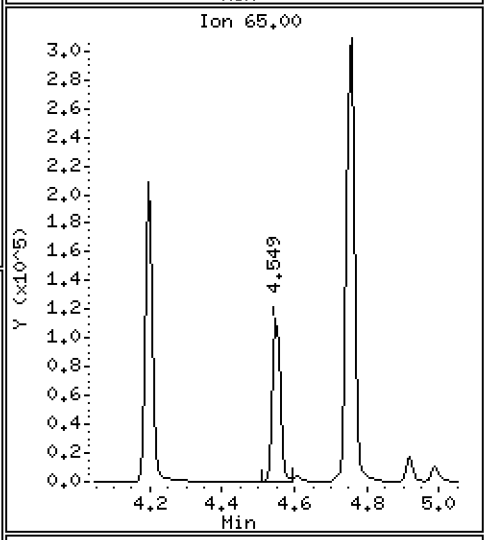
Column phase: DB-VRX Column diameter: 0.25

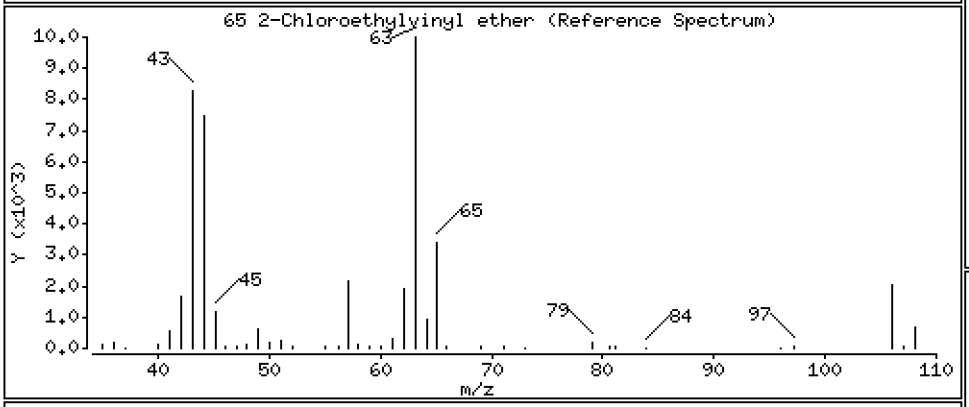
65 2-Chloroethylvinyl ether Concentration: 101.327 ug/L

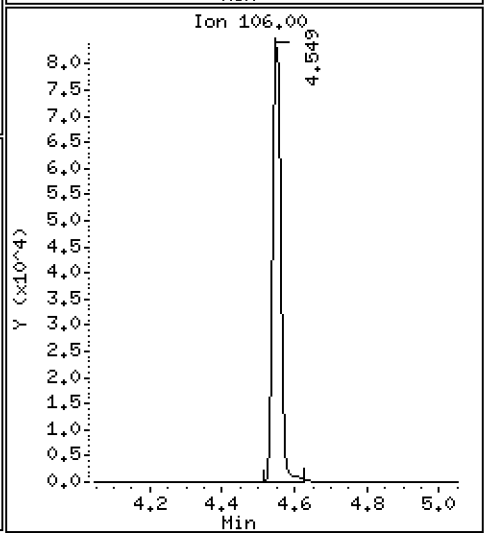


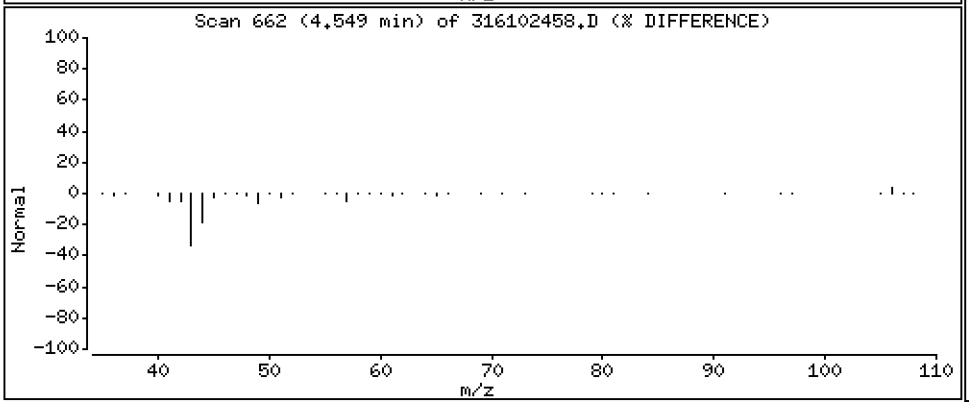












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 71

Date : 25-OCT-2016 01:14

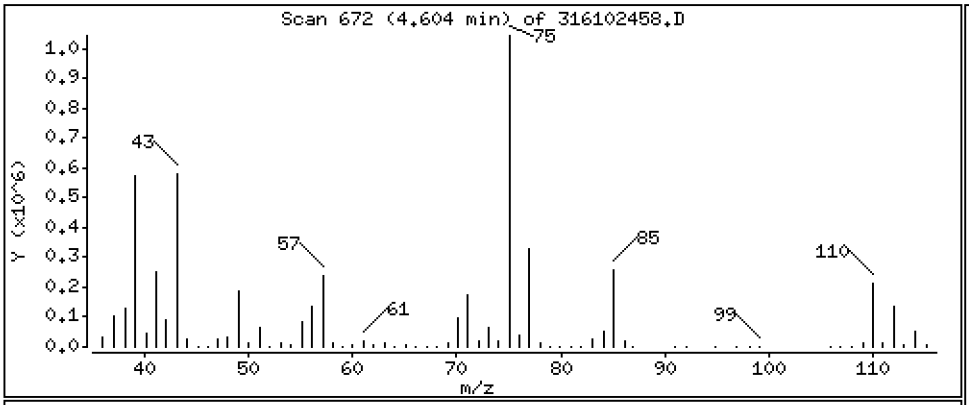
Client ID: Instrument: ms03.i

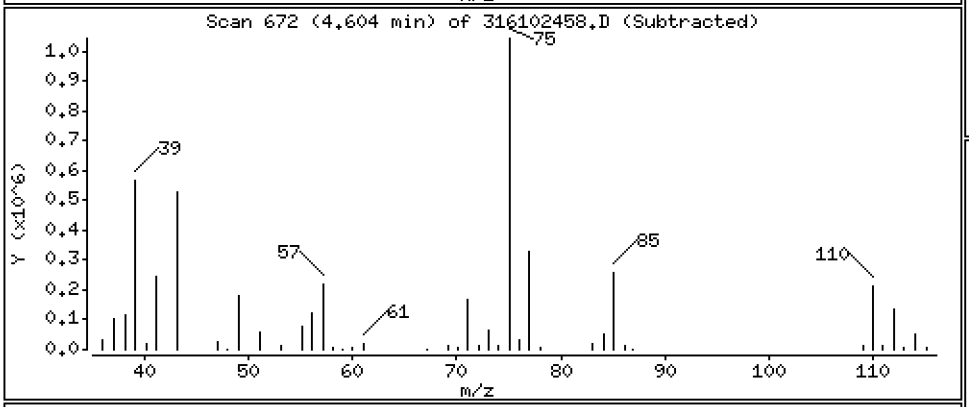
Sample Info: 1238;;1;1;5;;;

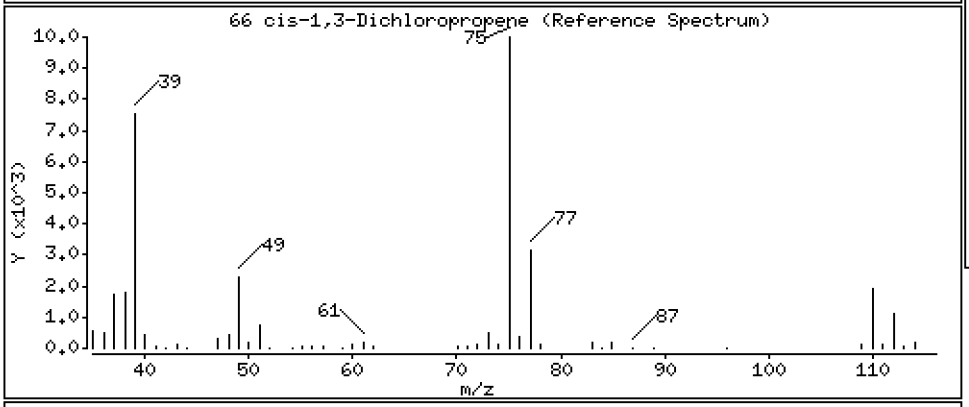
Purge Volume: 5.0 Operator: CJG

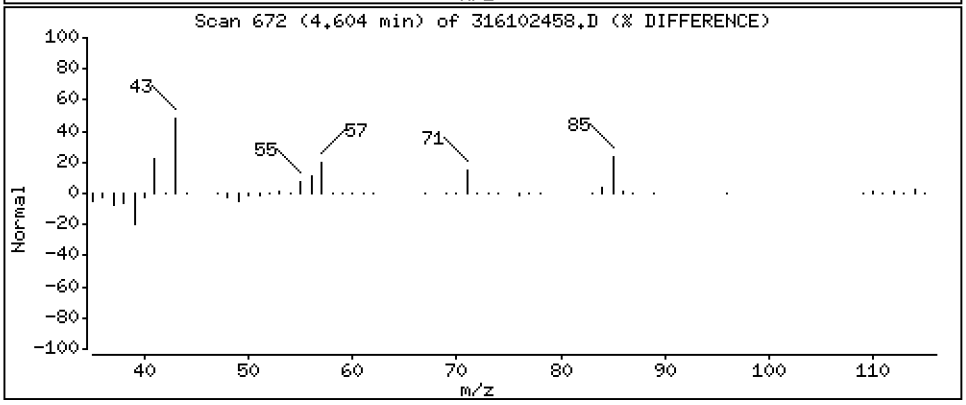
Column phase: DB-VRX Column diameter: 0.25

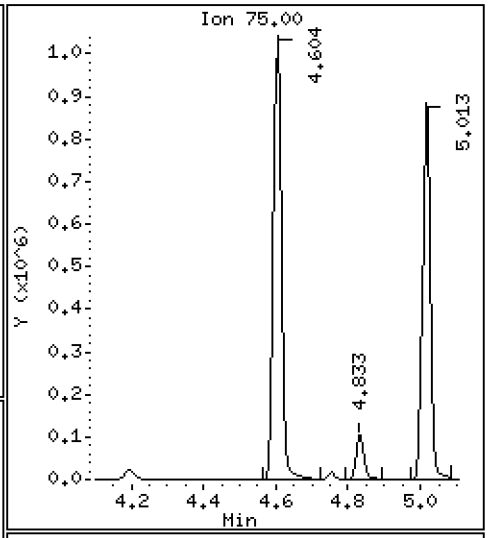
66 cis-1,3-Dichloropropene Concentration: 100.966 ug/L

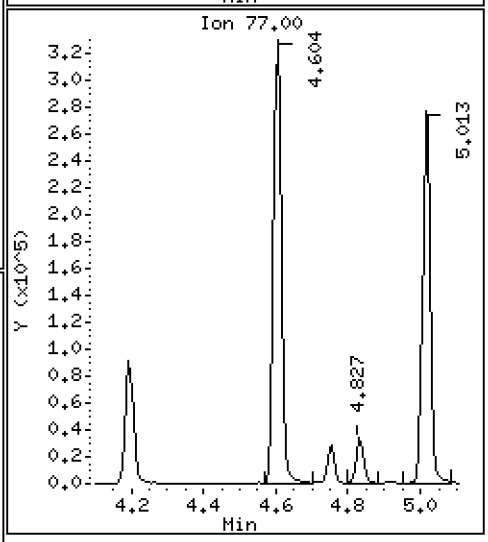












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 72

Date : 25-OCT-2016 01:14

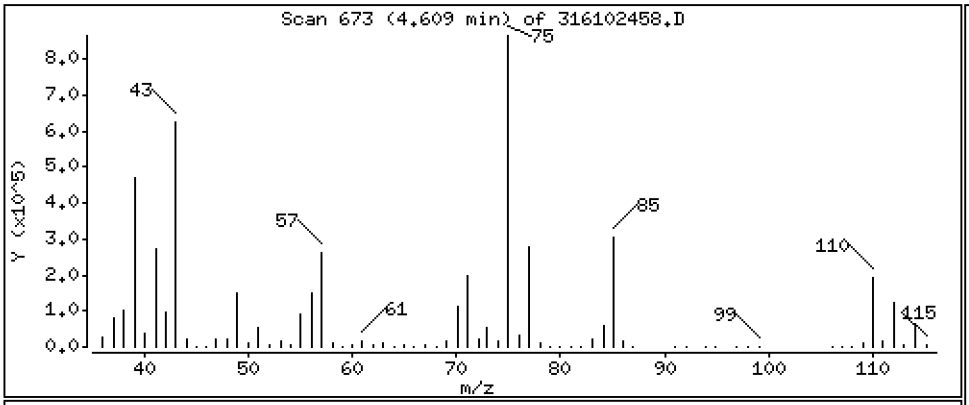
Client ID: Instrument: ms03.i

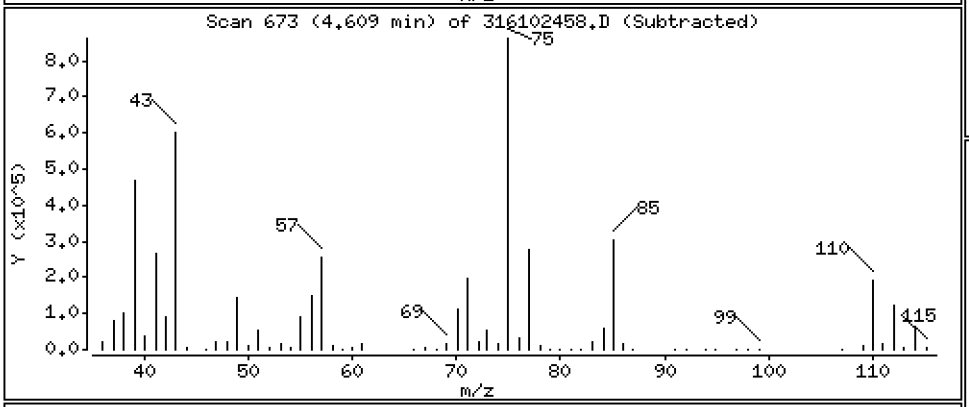
Sample Info: 1238;;1;1;5;;;

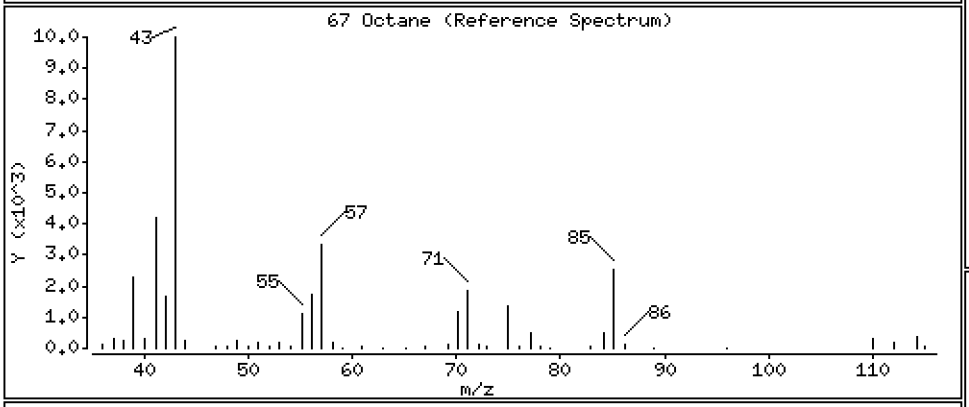
Purge Volume: 5.0 Operator: CJG

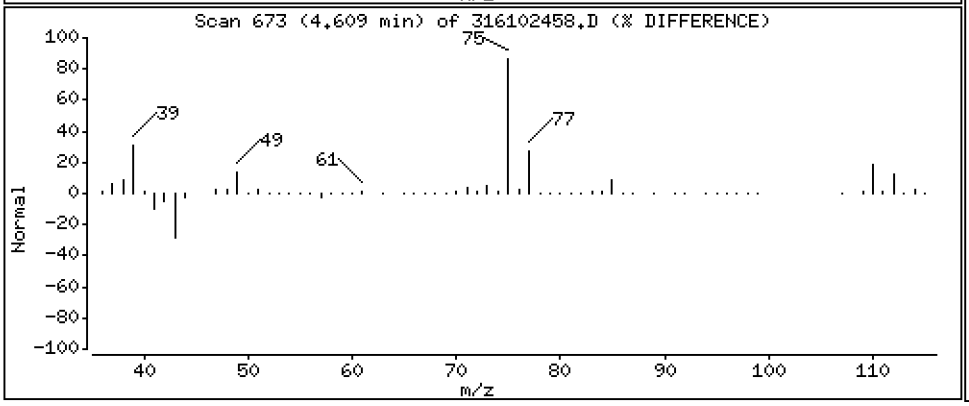
Column phase: DB-VRX Column diameter: 0.25

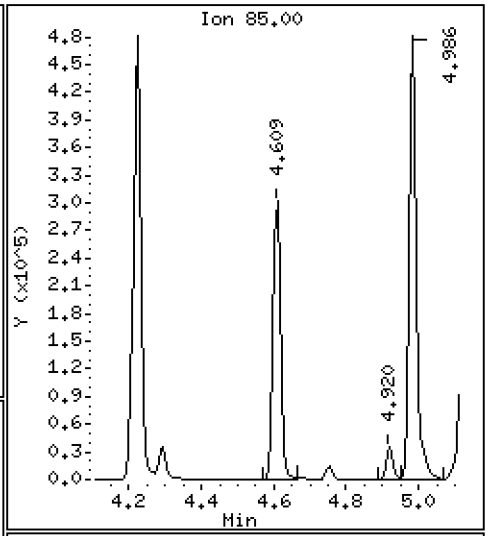
67 Octane Concentration: 101.709 ug/L

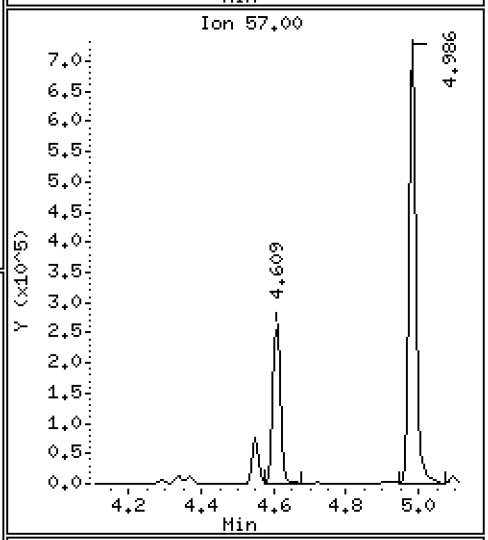


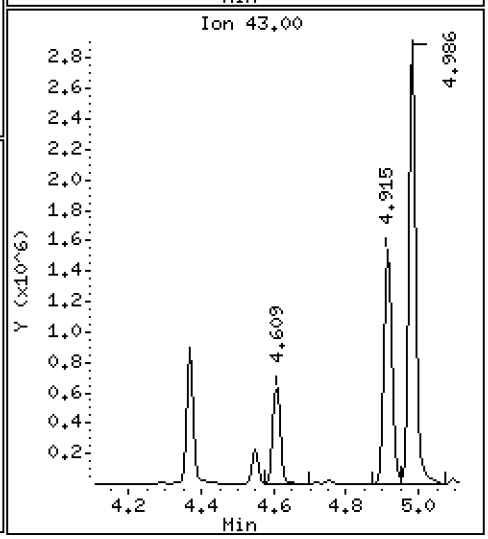












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 73

Date : 25-OCT-2016 01:14

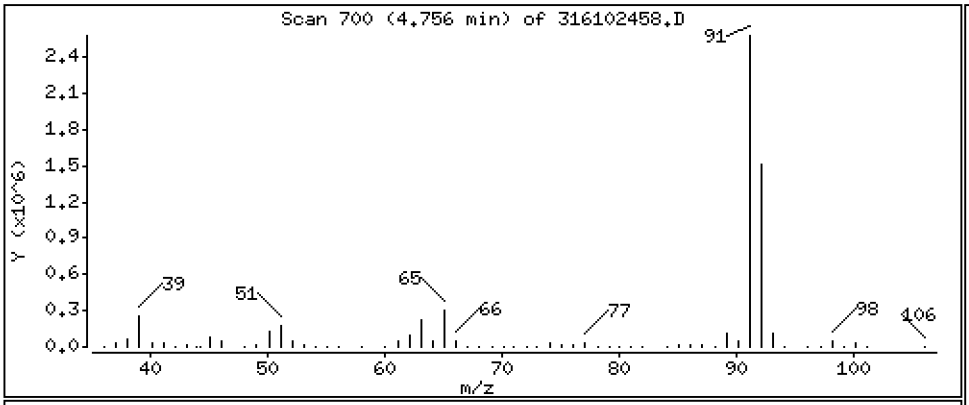
Client ID: Instrument: ms03.i

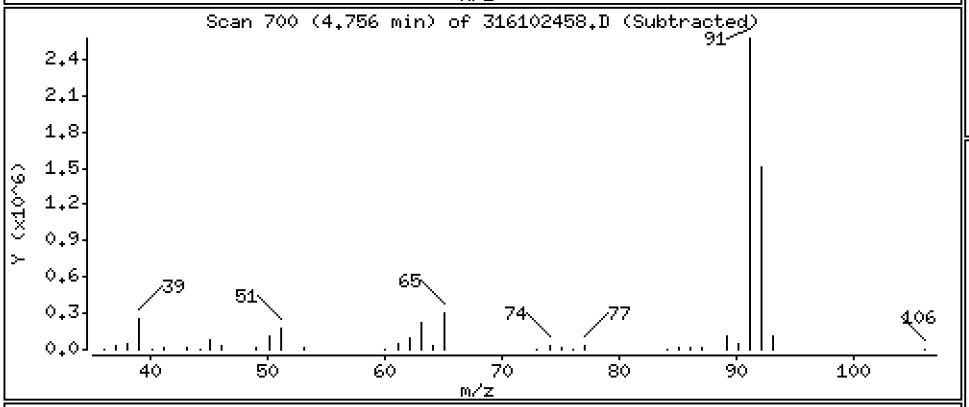
Sample Info: 1238;;1;1;5;;;

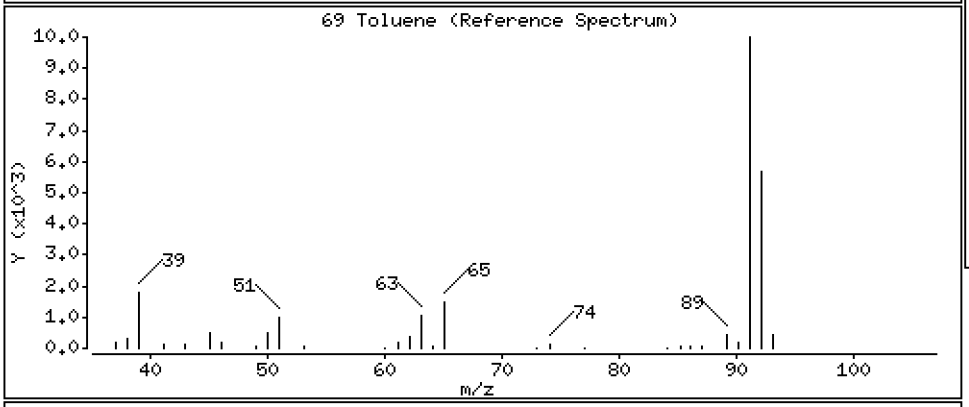
Purge Volume: 5.0 Operator: CJG

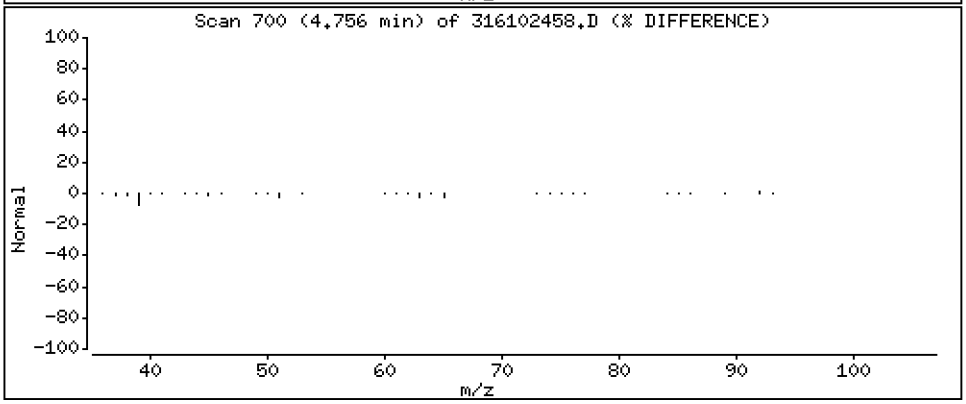
Column phase: DB-VRX Column diameter: 0.25

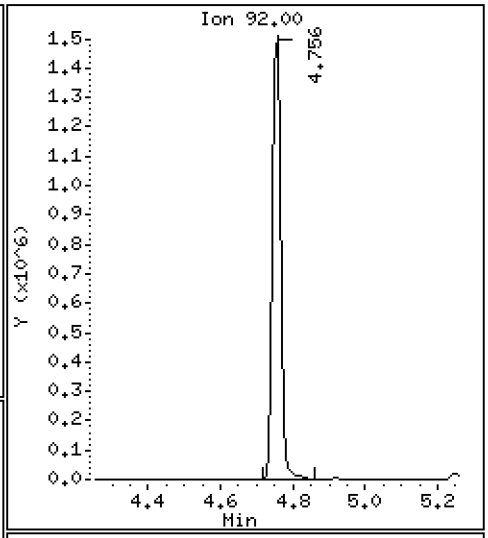
69 Toluene Concentration: 99.3807 ug/L

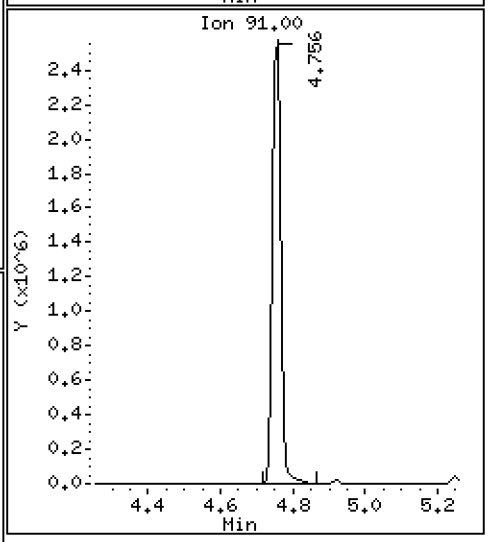












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 74

Date : 25-OCT-2016 01:14

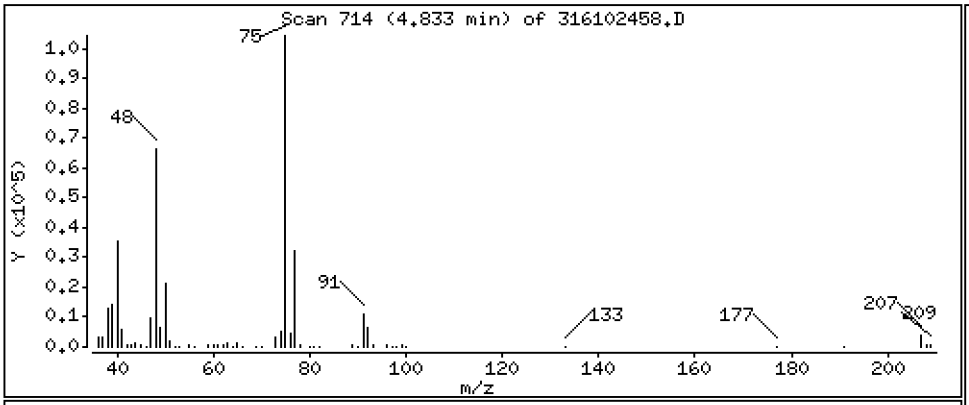
Client ID: Instrument: ms03.i

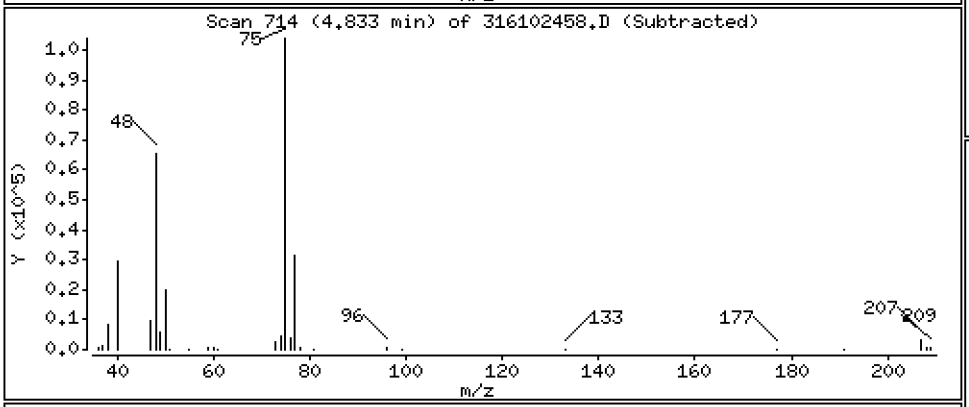
Sample Info: 1238;;1;1;5;;;

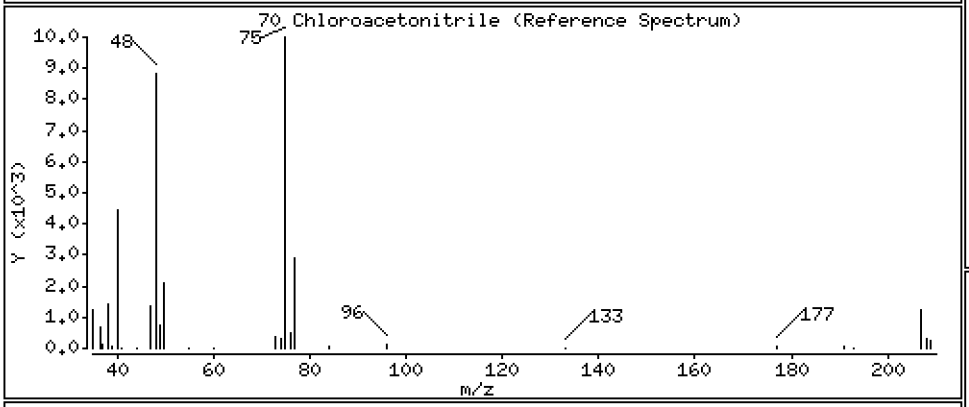
Purge Volume: 5.0 Operator: CJG

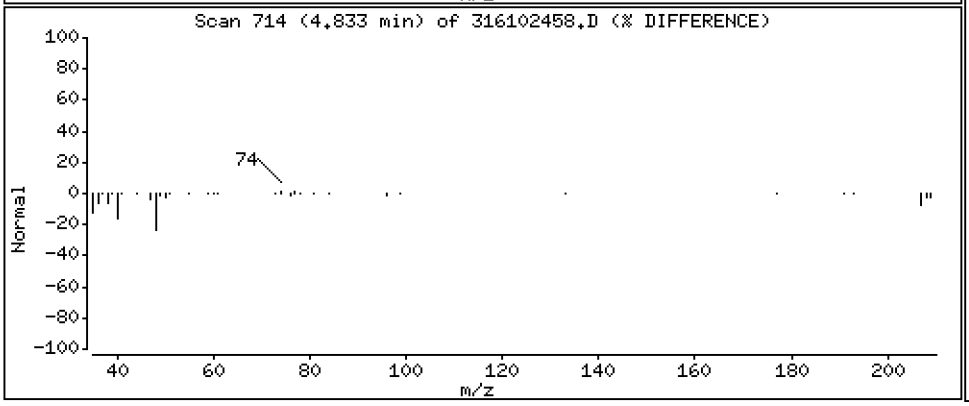
Column phase: DB-VRX Column diameter: 0.25

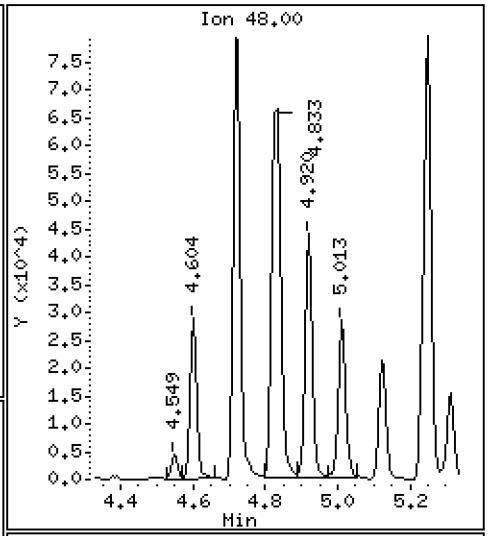
70 Chloroacetonitrile Concentration: 498.761 ug/L

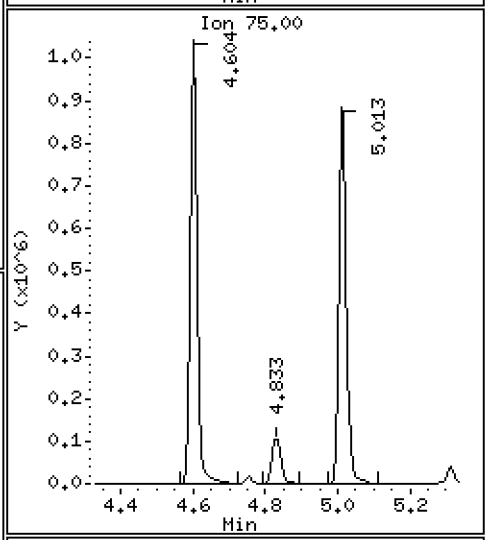


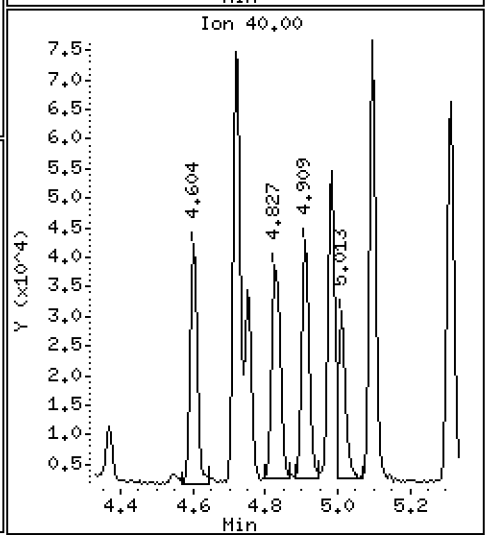












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 75

Date : 25-OCT-2016 01:14

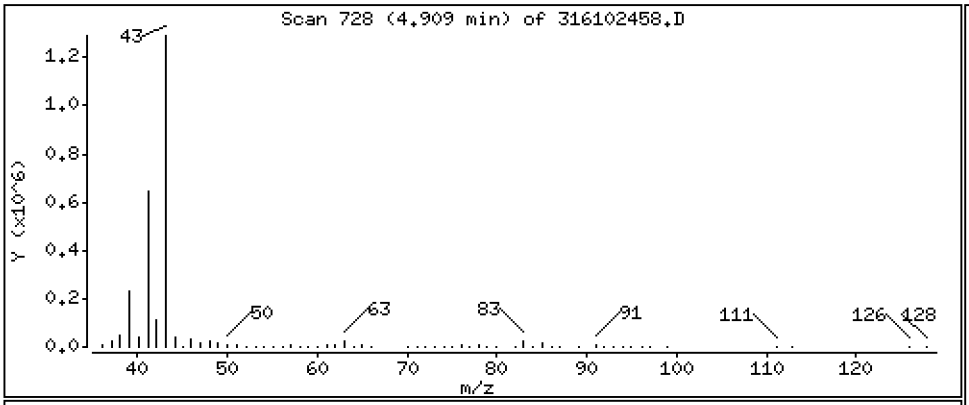
Client ID: Instrument: ms03.i

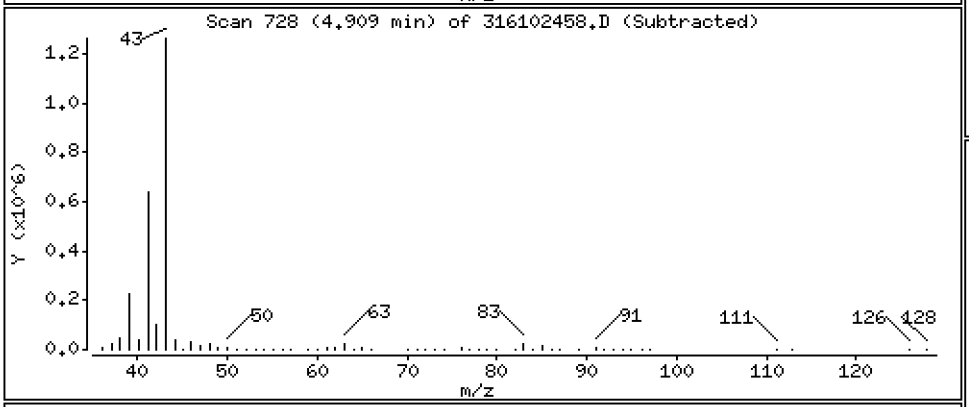
Sample Info: 1238;;1;1;5;;;

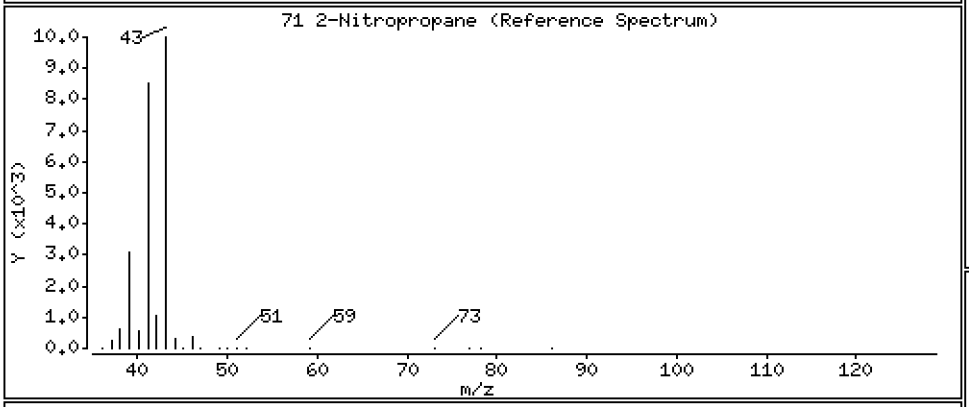
Purge Volume: 5.0 Operator: CJG

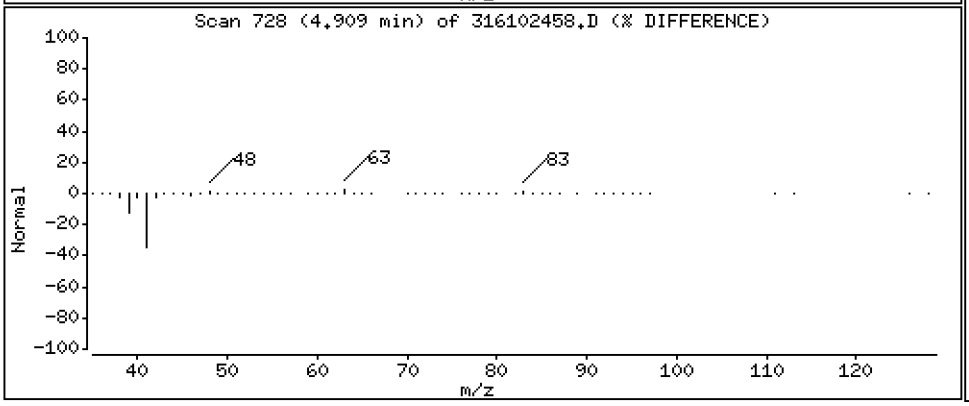
Column phase: DB-VRX Column diameter: 0.25

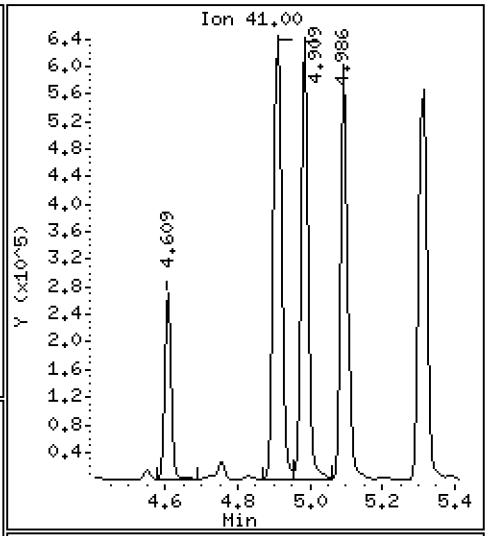
71 2-Nitropropane Concentration: 498.743 ug/L

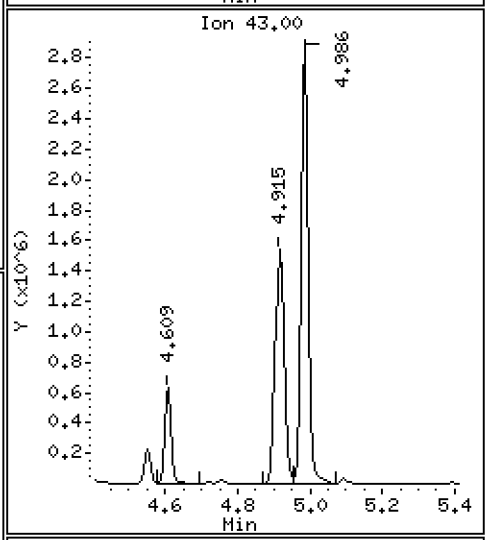


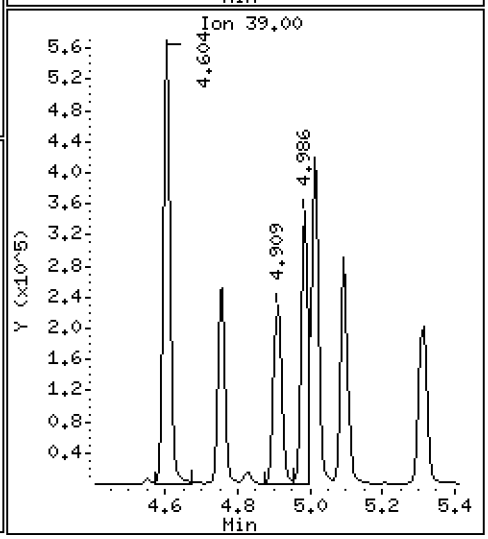












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 76

Date : 25-OCT-2016 01:14

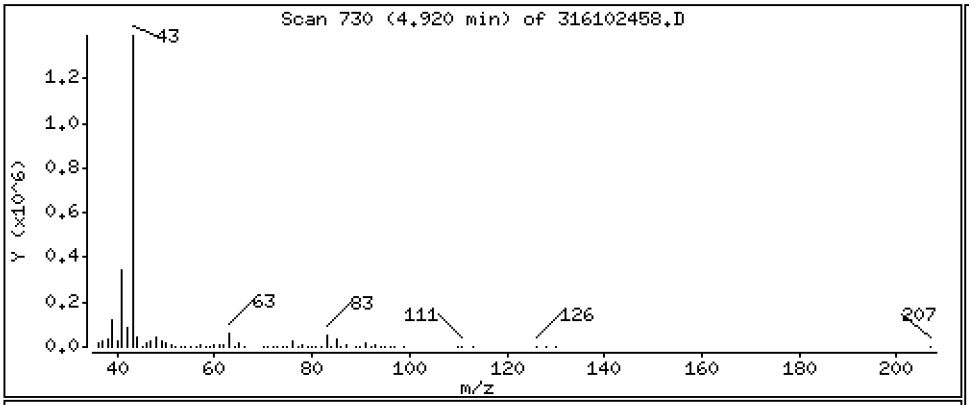
Client ID: Instrument: ms03.i

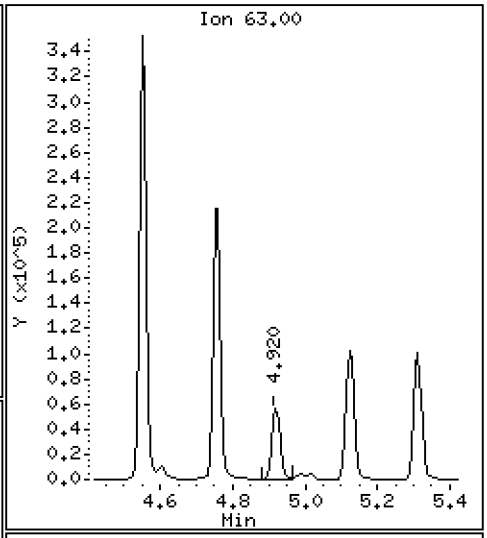
Sample Info: 1238;;1;1;5;;;

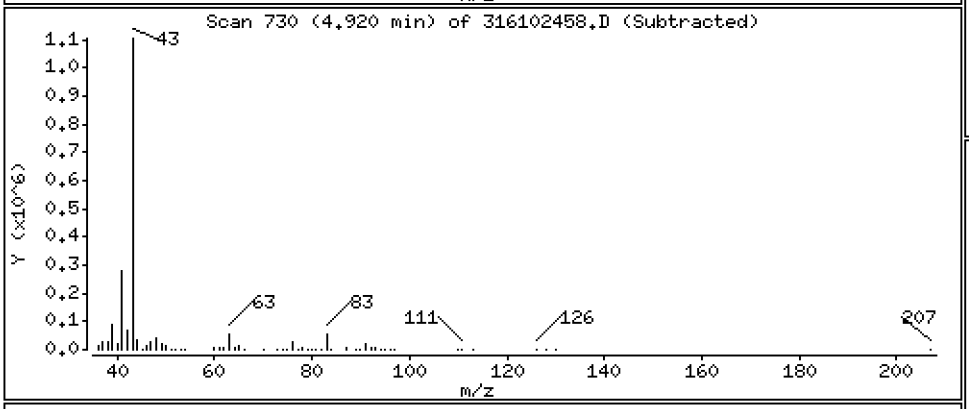
Purge Volume: 5.0 Operator: CJG

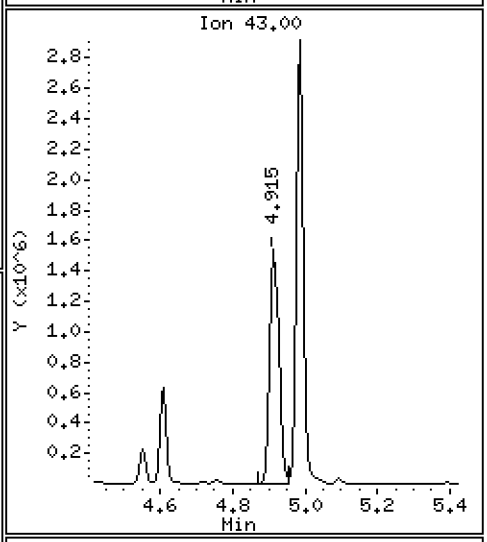
Column phase: DB-VRX Column diameter: 0.25

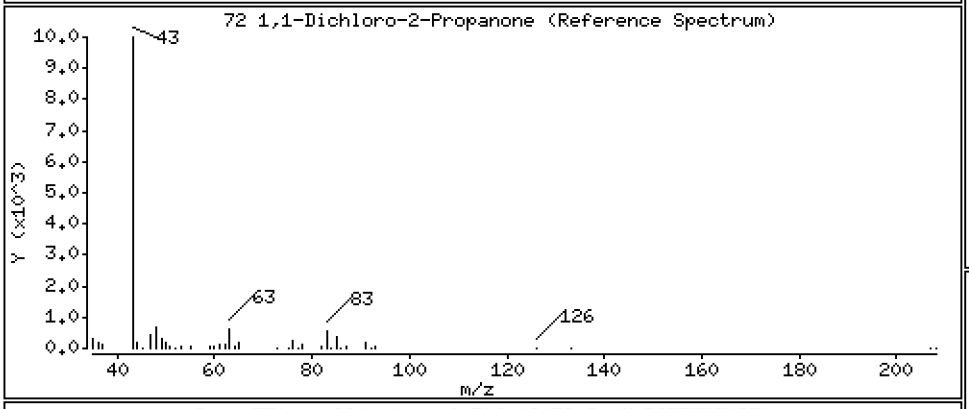
72 1,1-Dichloro-2-Propanone Concentration: 497.614 ug/L

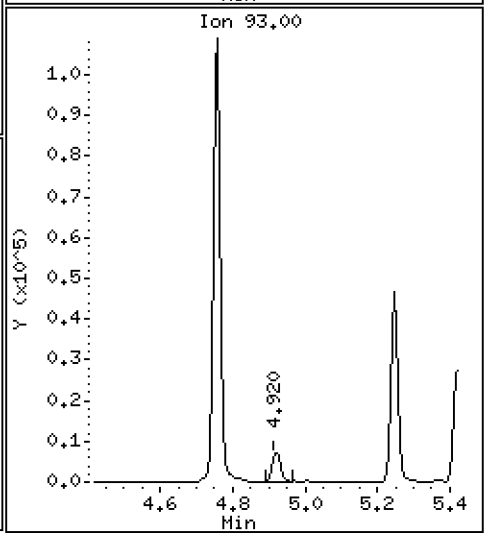


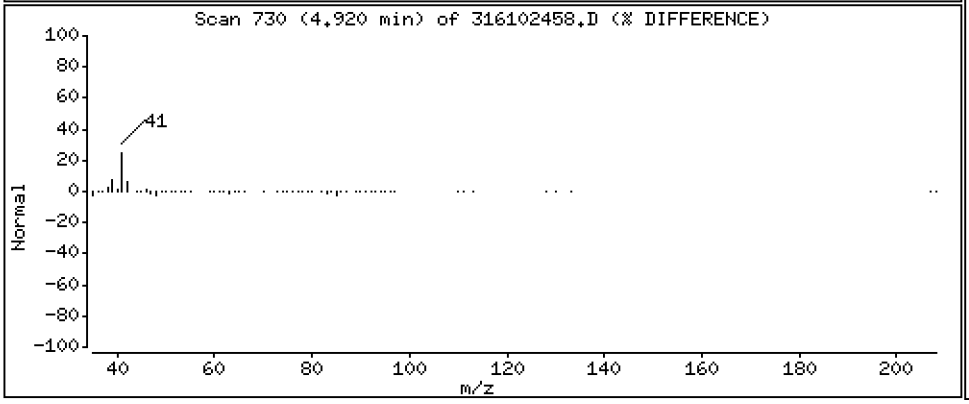












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 77

Date : 25-OCT-2016 01:14

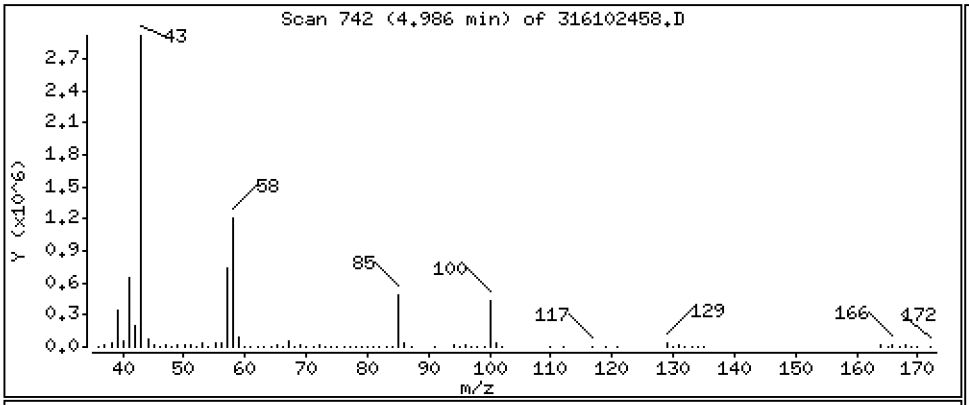
Client ID: Instrument: ms03.i

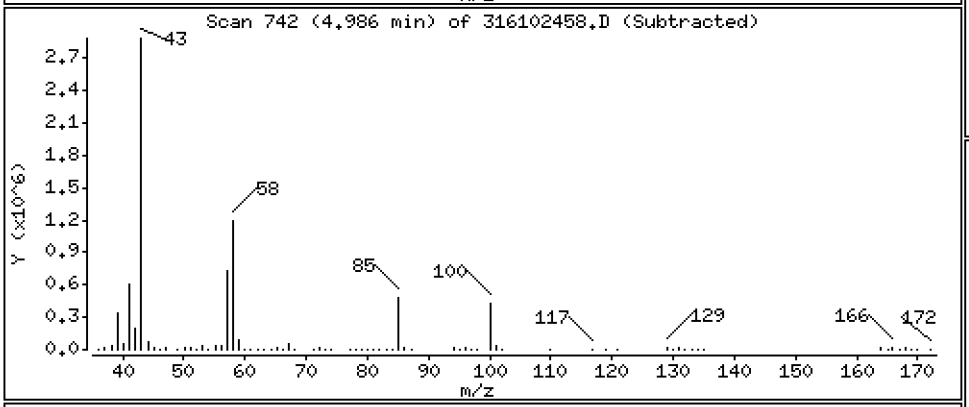
Sample Info: 1238;;1;1;5;;;

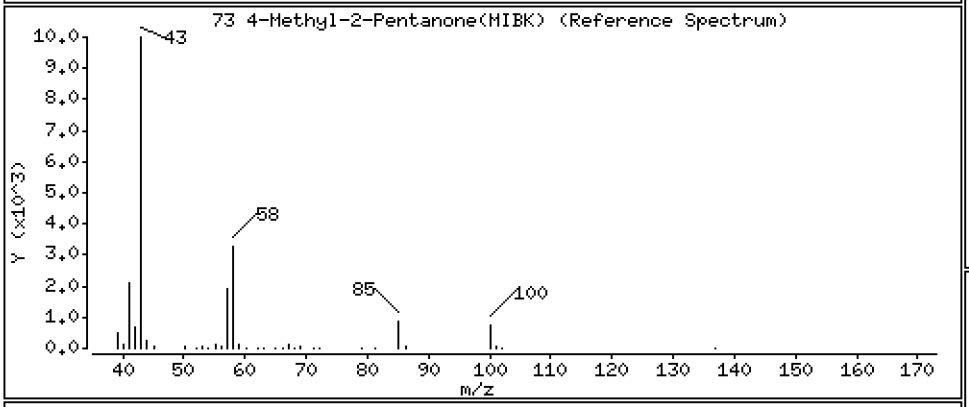
Purge Volume: 5.0 Operator: CJG

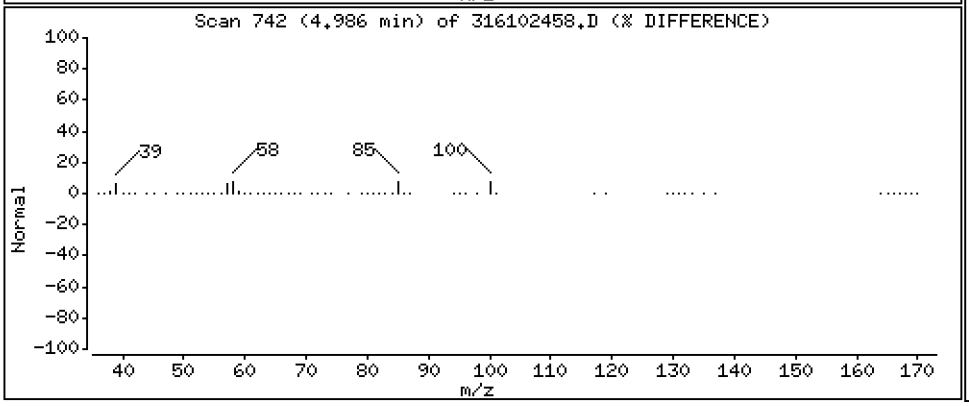
Column phase: DB-VRX Column diameter: 0.25

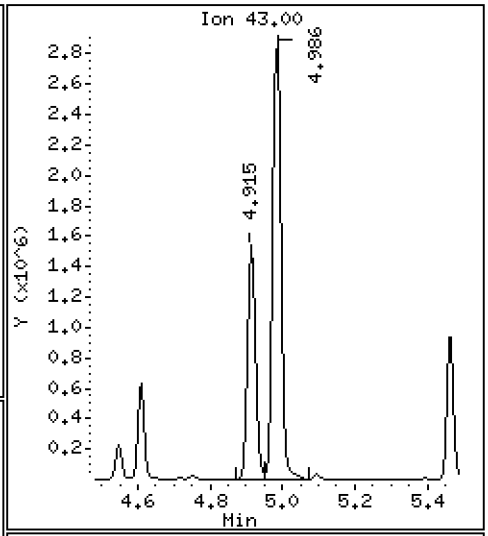
73 4-Methyl-2-Pentanone(MIBK) Concentration: 496.247 ug/L

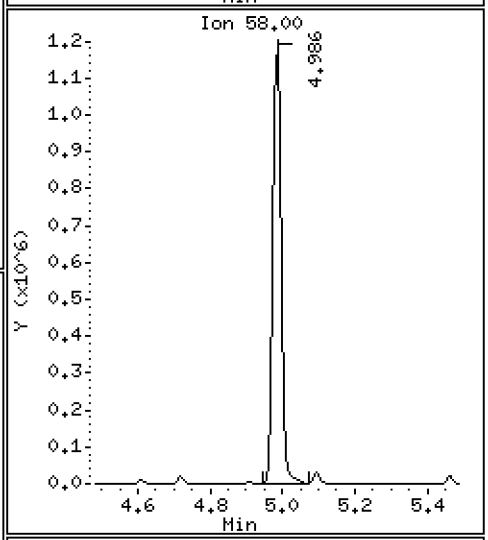


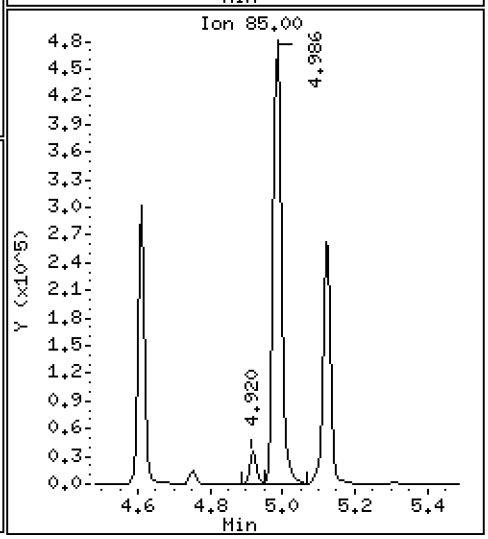












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 78

Date : 25-OCT-2016 01:14

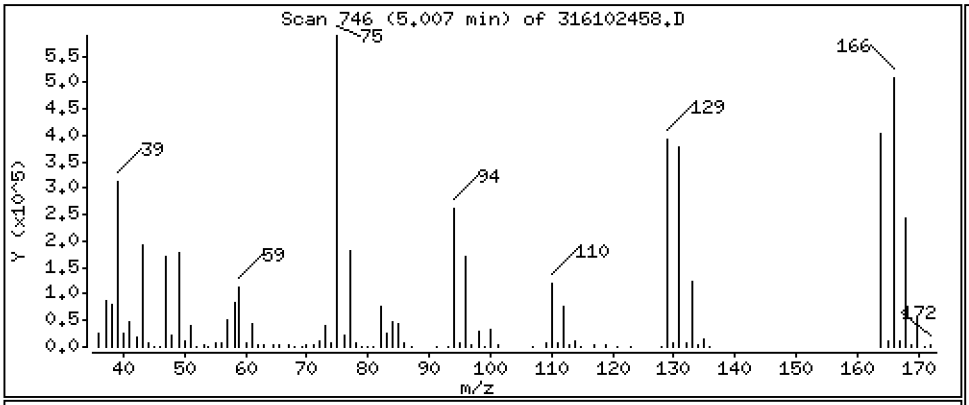
Client ID: Instrument: ms03.i

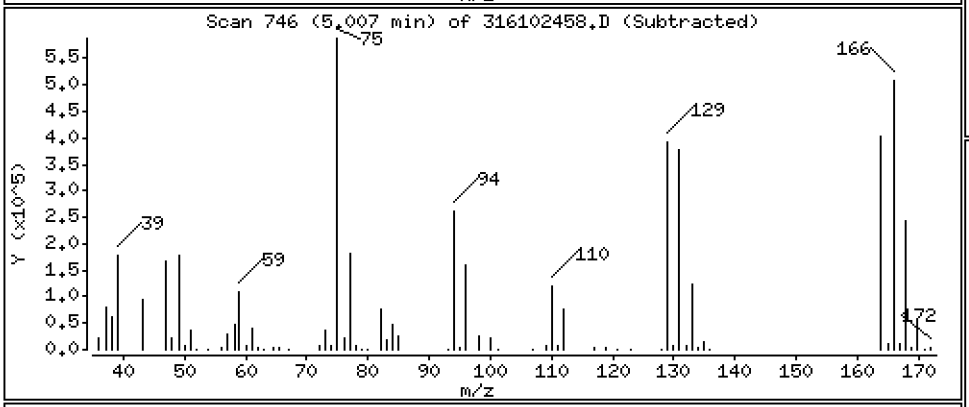
Sample Info: 1238;;1;1;5;;;

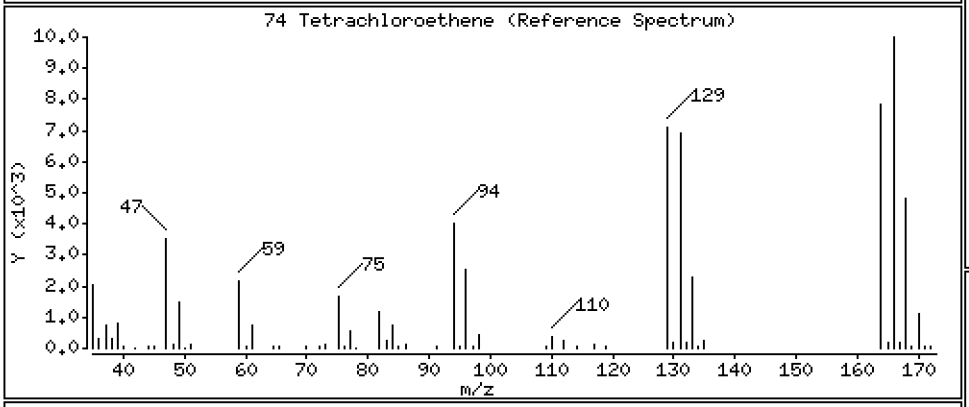
Purge Volume: 5.0 Operator: CJG

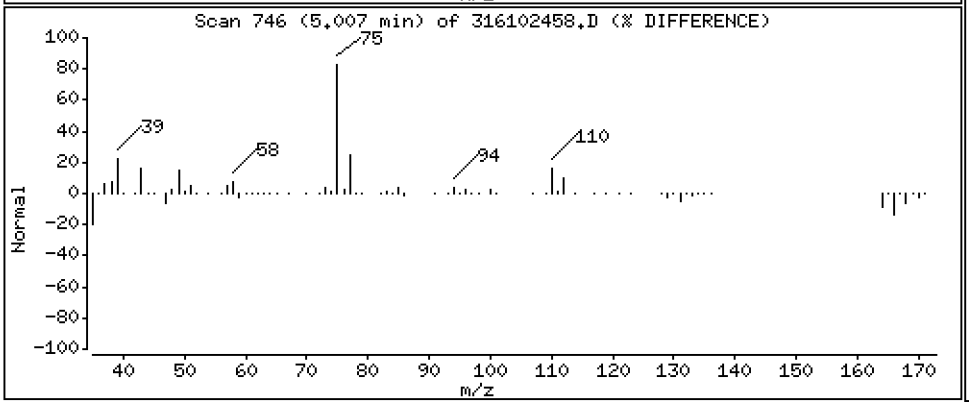
Column phase: DB-VRX Column diameter: 0.25

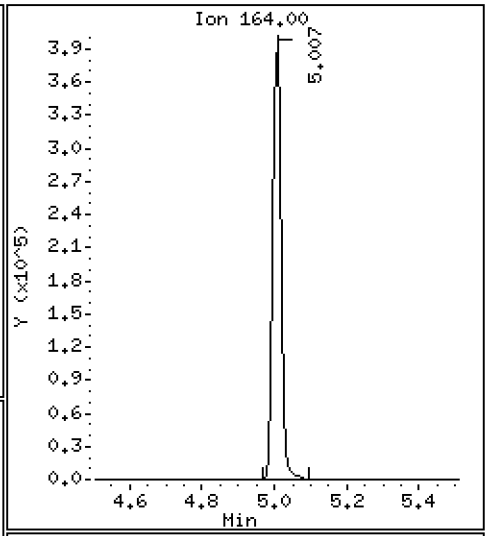
74 Tetrachloroethene Concentration: 98.5816 ug/L

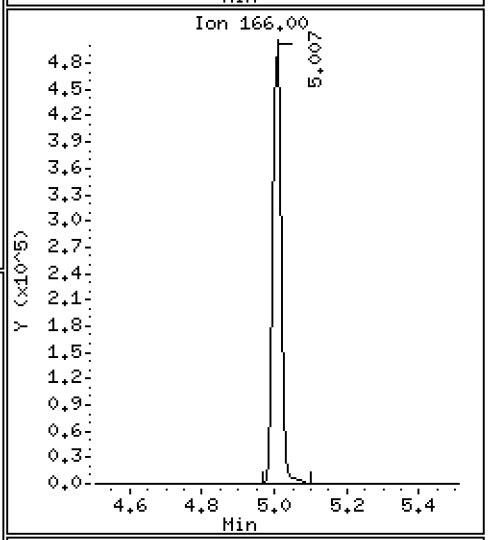


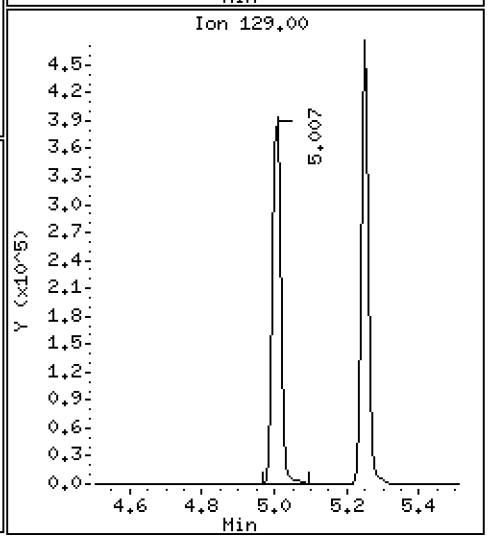












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 79

Date : 25-OCT-2016 01:14

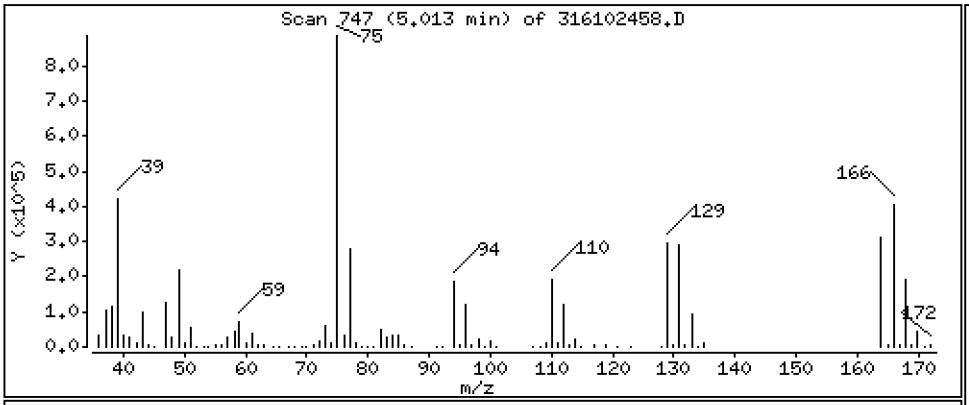
Client ID: Instrument: ms03.i

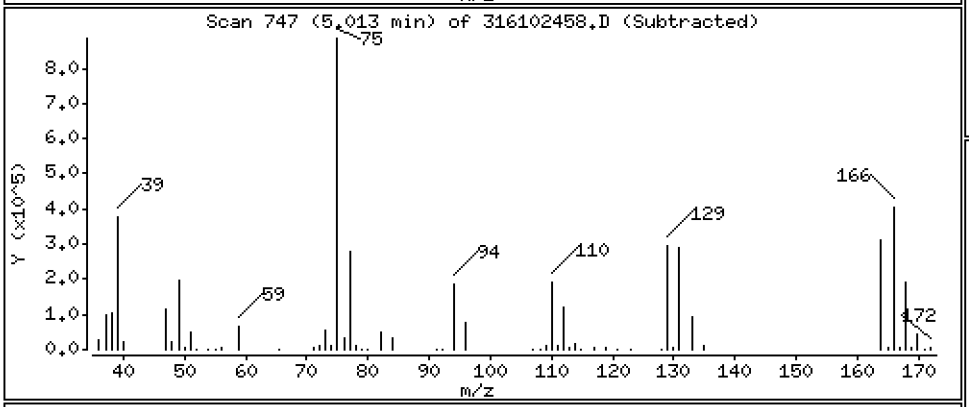
Sample Info: 1238;;1;1;5;;;

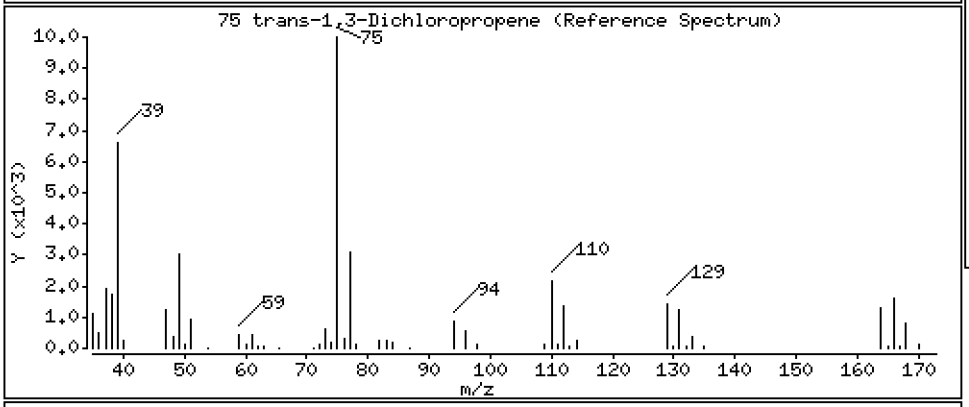
Purge Volume: 5.0 Operator: CJG

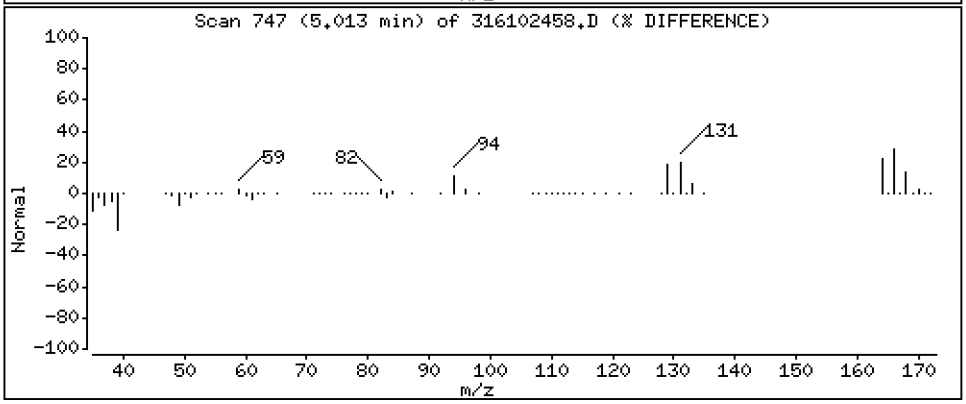
Column phase: DB-VRX Column diameter: 0.25

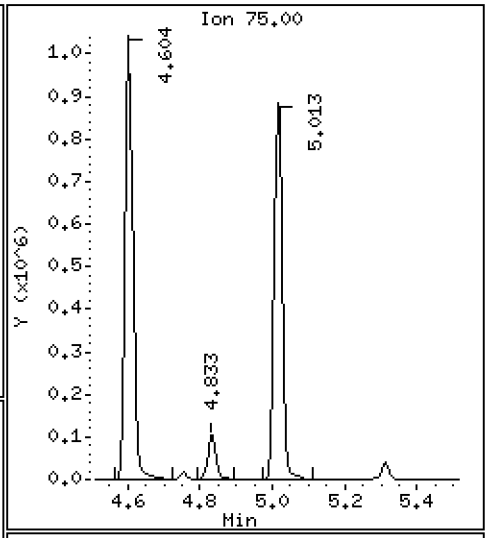
75 trans-1,3-Dichloropropene Concentration: 100.837 ug/L

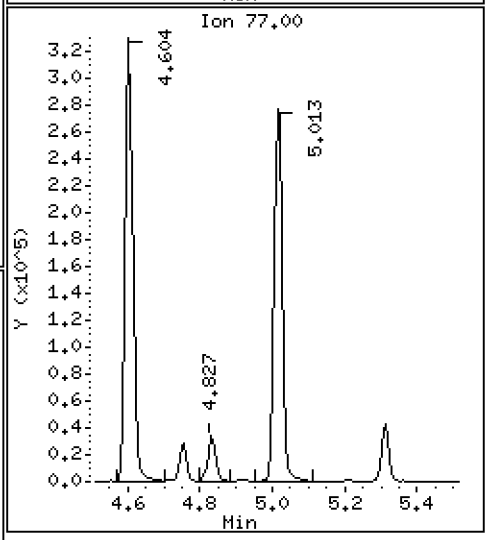












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 80

Date : 25-OCT-2016 01:14

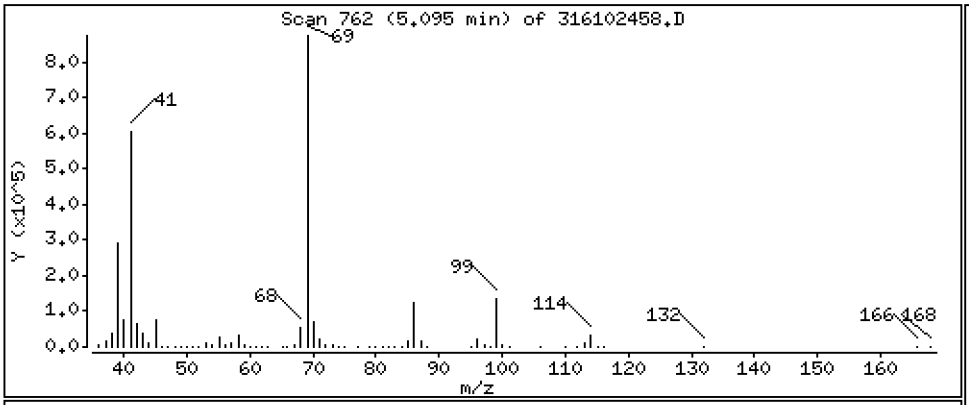
Client ID: Instrument: ms03.i

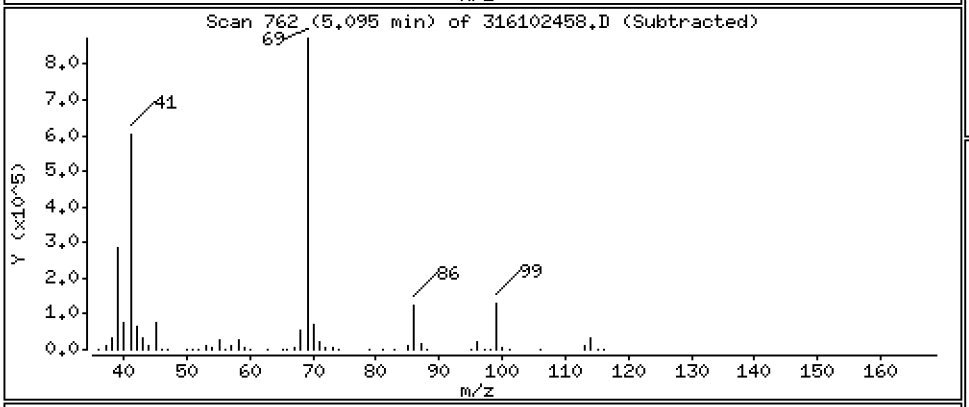
Sample Info: 1238;;1;1;5;;;

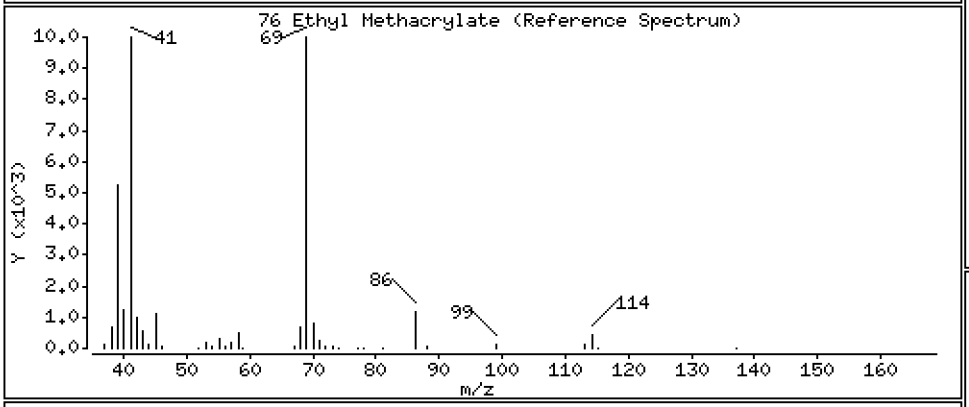
Purge Volume: 5.0 Operator: CJG

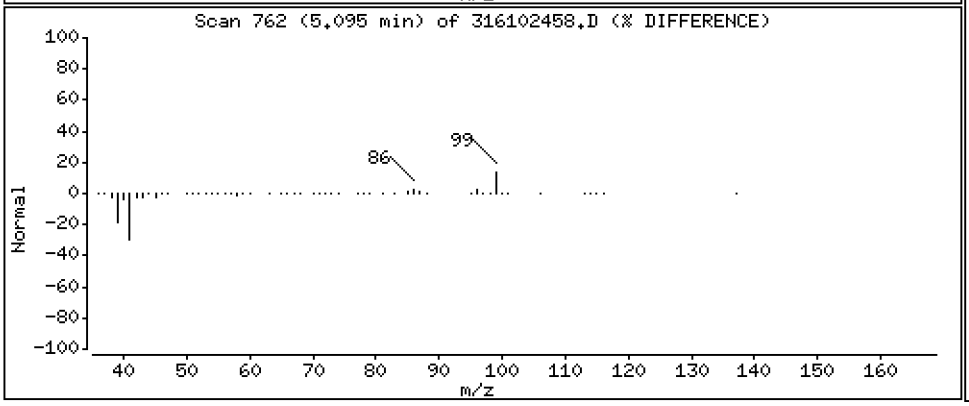
Column phase: DB-VRX Column diameter: 0.25

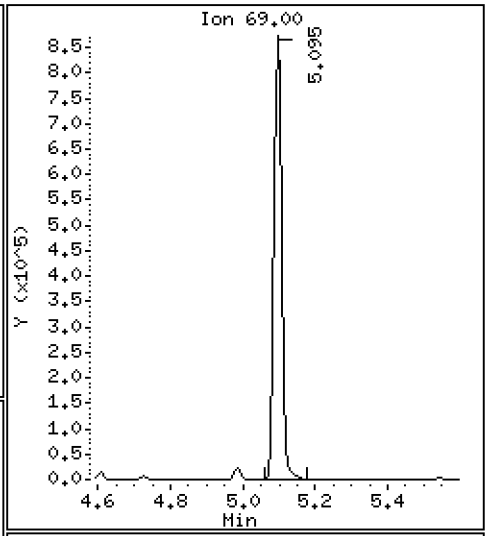
76 Ethyl Methacrylate Concentration: 100.367 ug/L

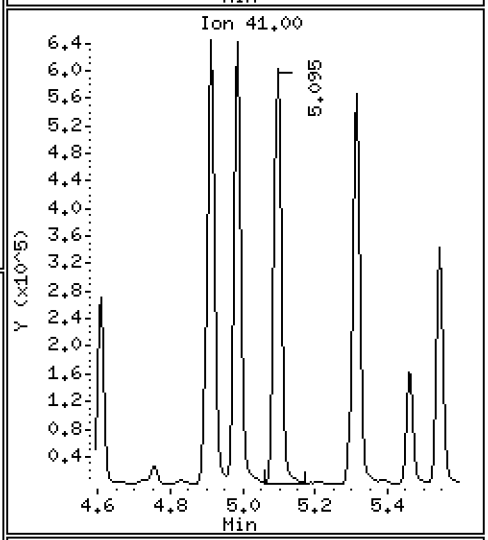


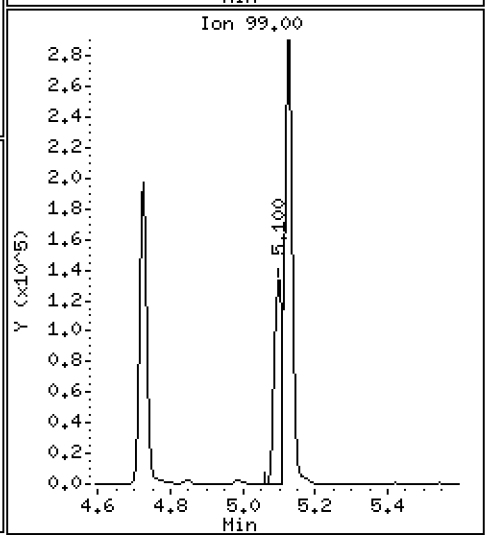












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 81

Date : 25-OCT-2016 01:14

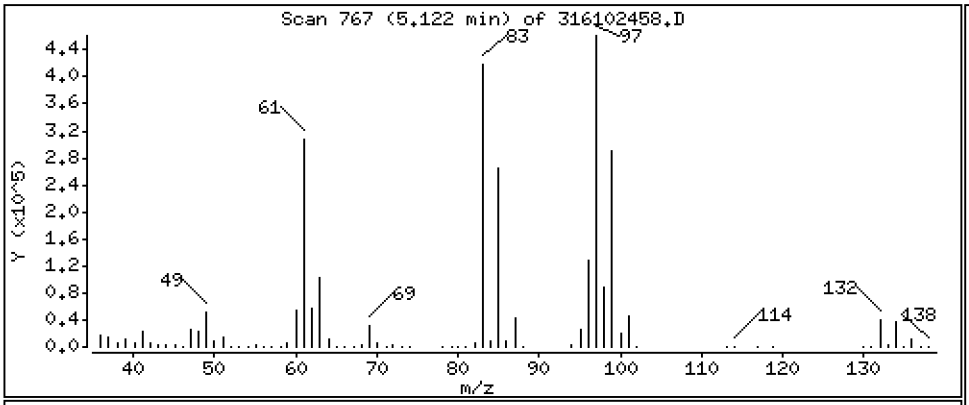
Client ID: Instrument: ms03.i

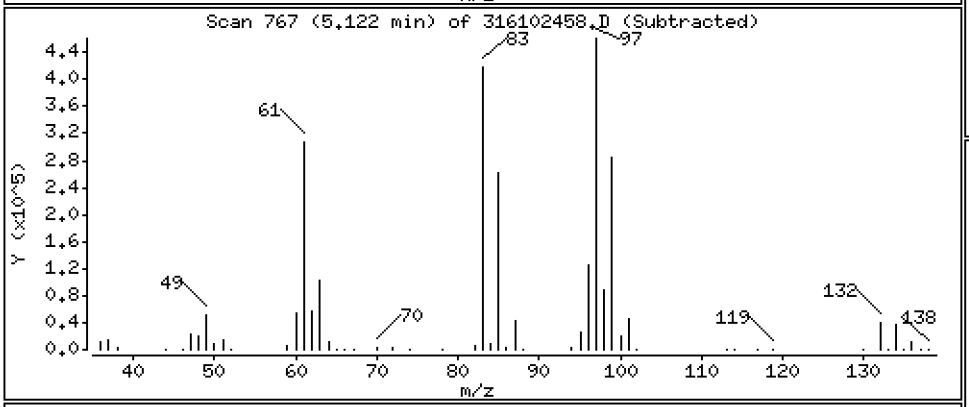
Sample Info: 1238;;1;1;5;;;

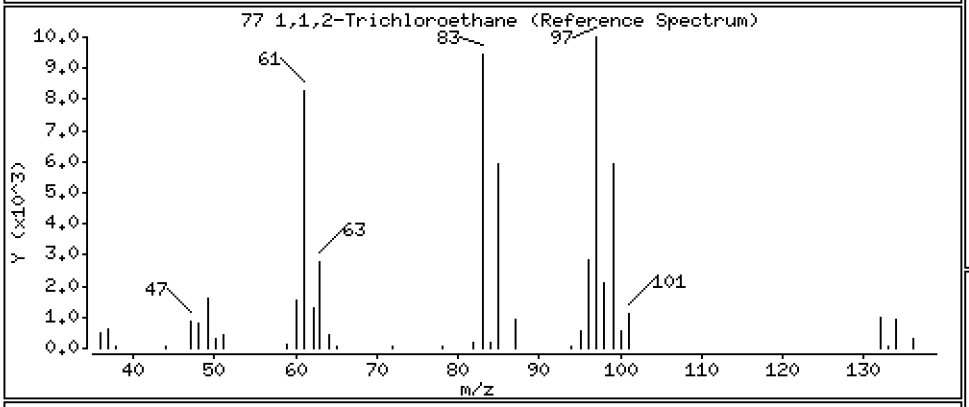
Purge Volume: 5.0 Operator: CJG

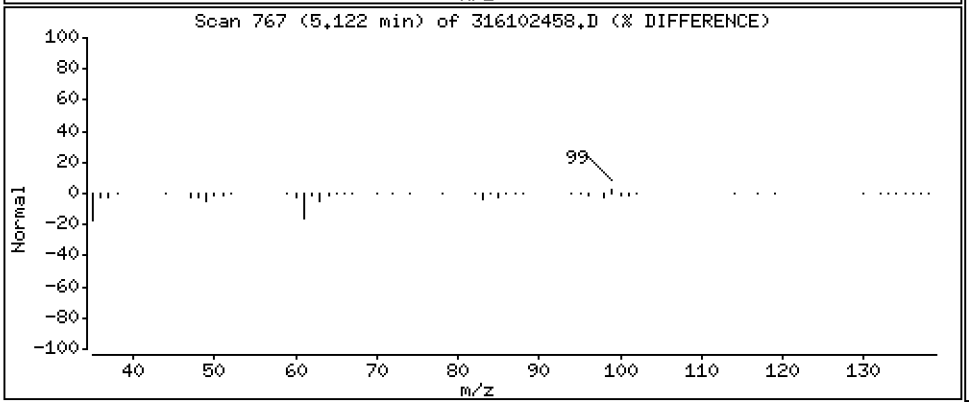
Column phase: DB-VRX Column diameter: 0.25

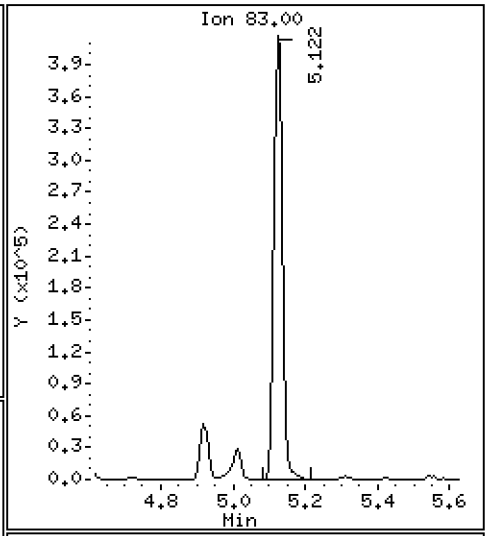
77 1,1,2-Trichloroethane Concentration: 99.3617 ug/L

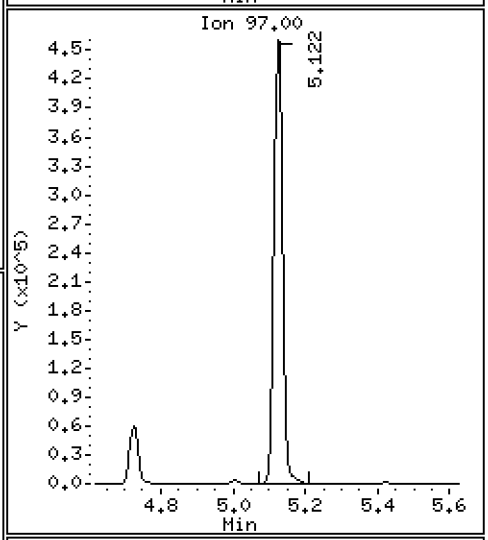


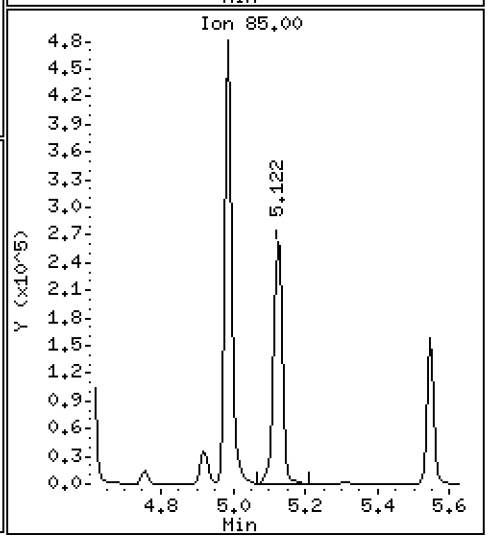












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 82

Date : 25-OCT-2016 01:14

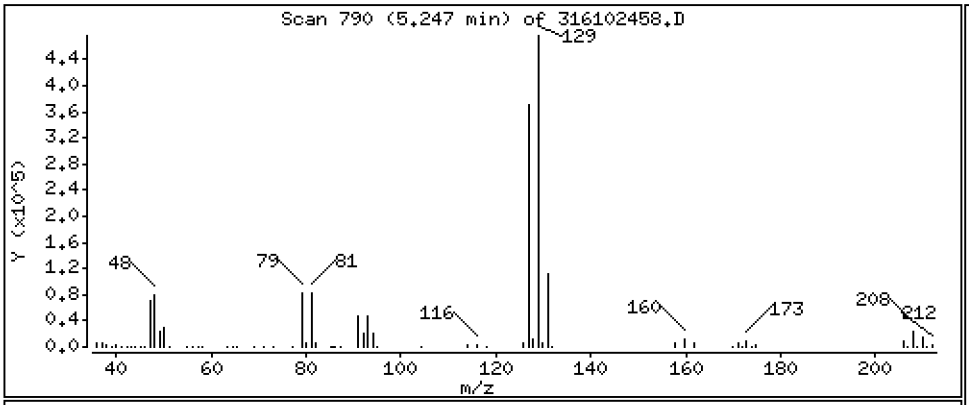
Client ID: Instrument: ms03.i

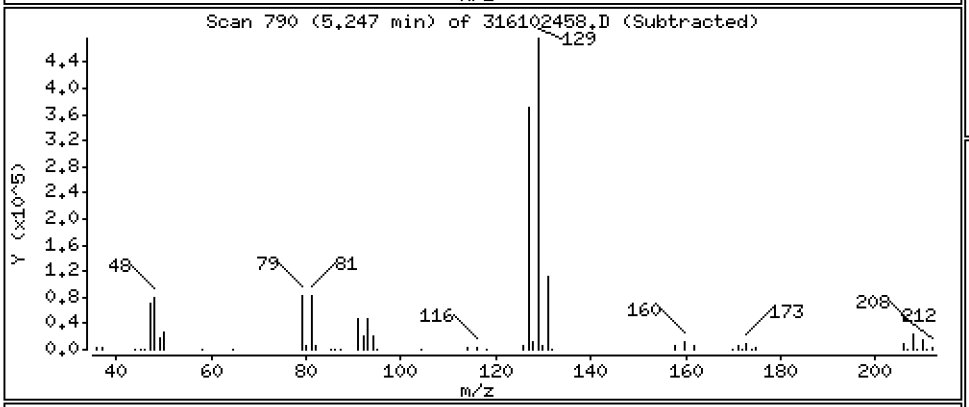
Sample Info: 1238;;1;1;5;;;

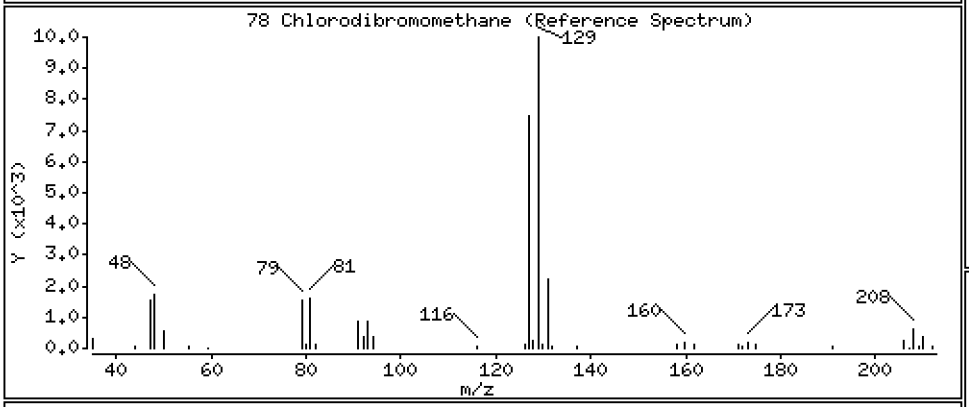
Purge Volume: 5.0 Operator: CJG

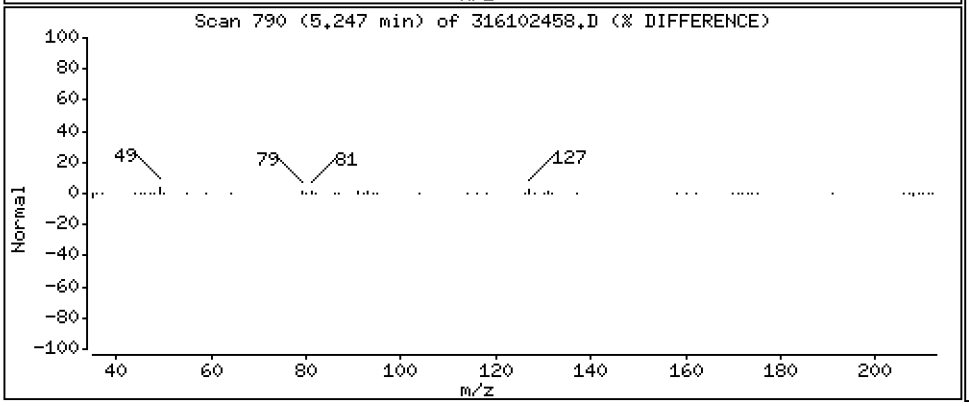
Column phase: DB-VRX Column diameter: 0.25

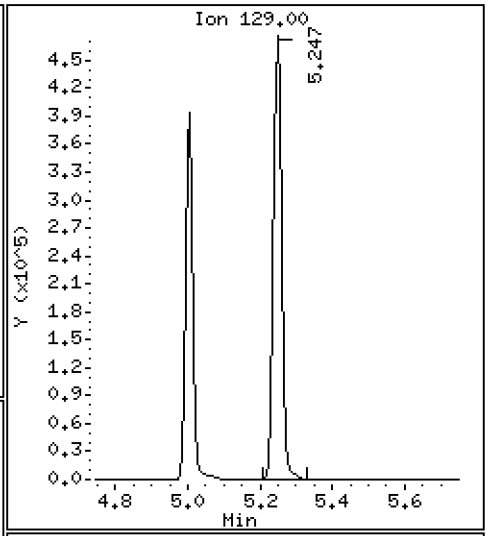
78 Chlorodibromomethane Concentration: 100.956 ug/L

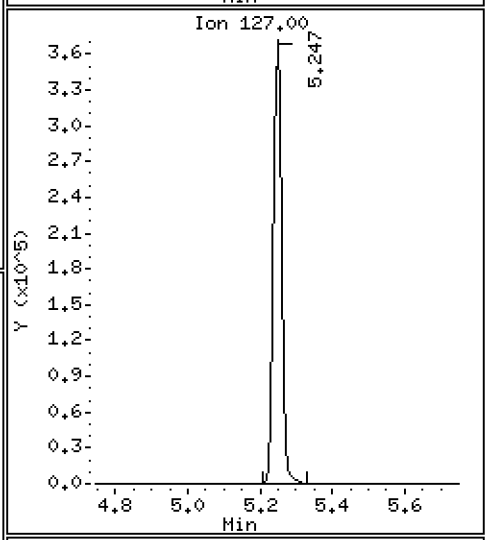


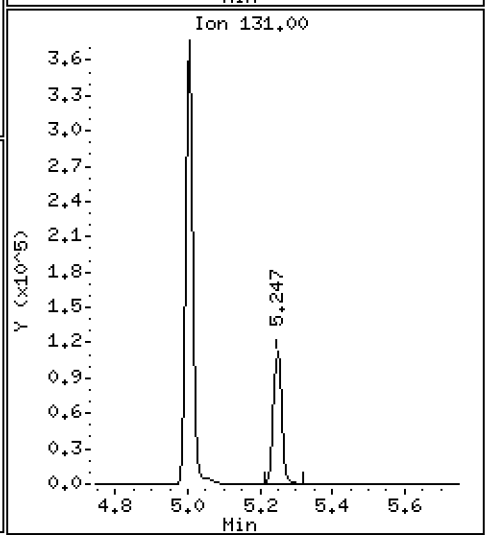












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 83

Date : 25-OCT-2016 01:14

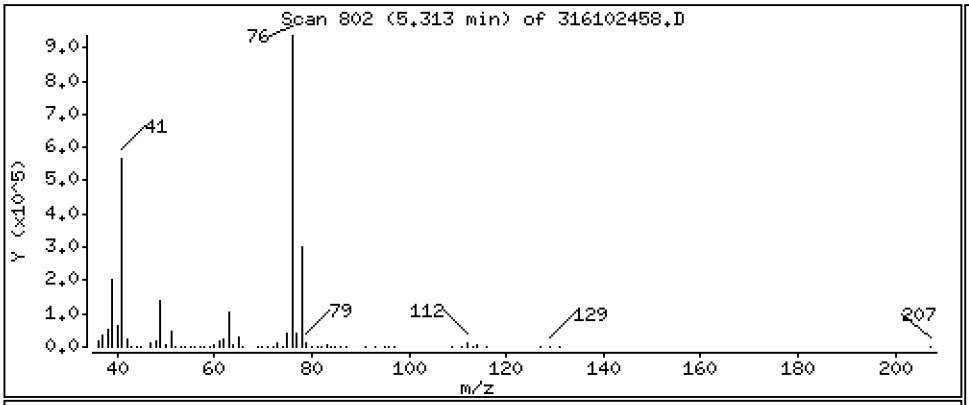
Client ID: Instrument: ms03.i

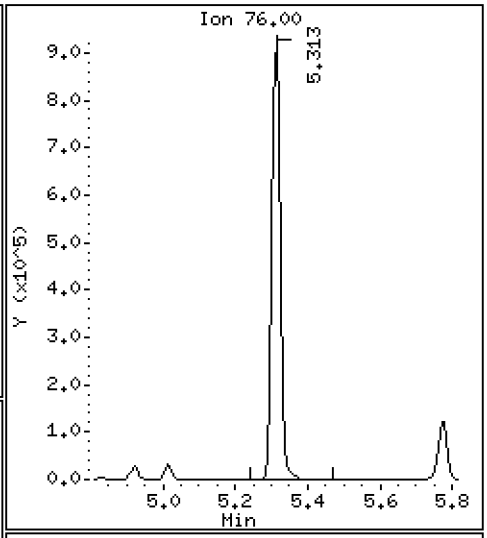
Sample Info: 1238;;1;1;5;;;

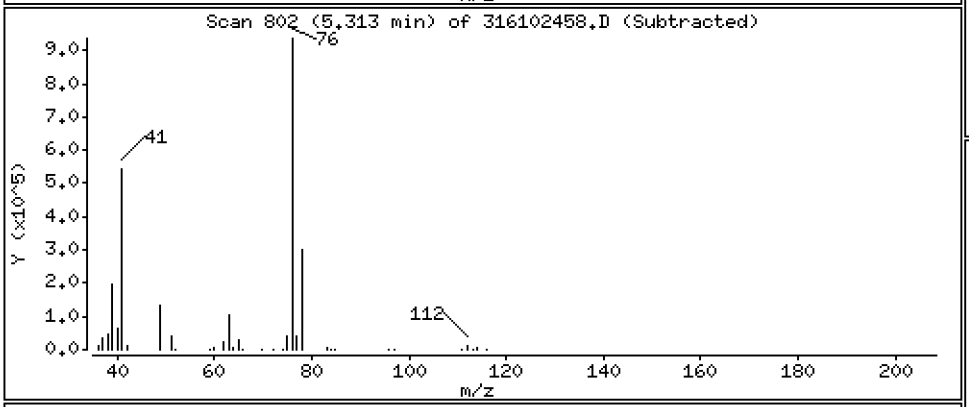
Purge Volume: 5.0 Operator: CJG

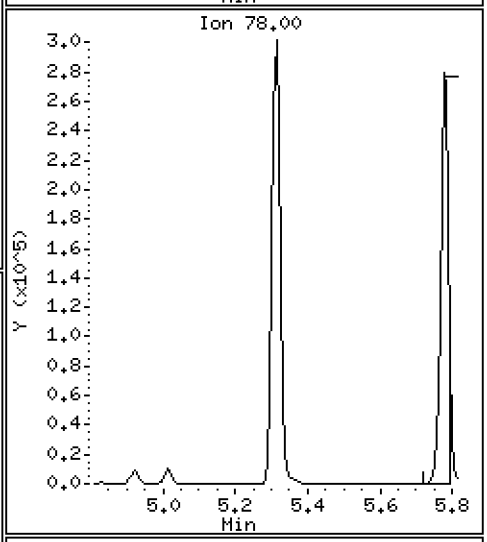
Column phase: DB-VRX Column diameter: 0.25

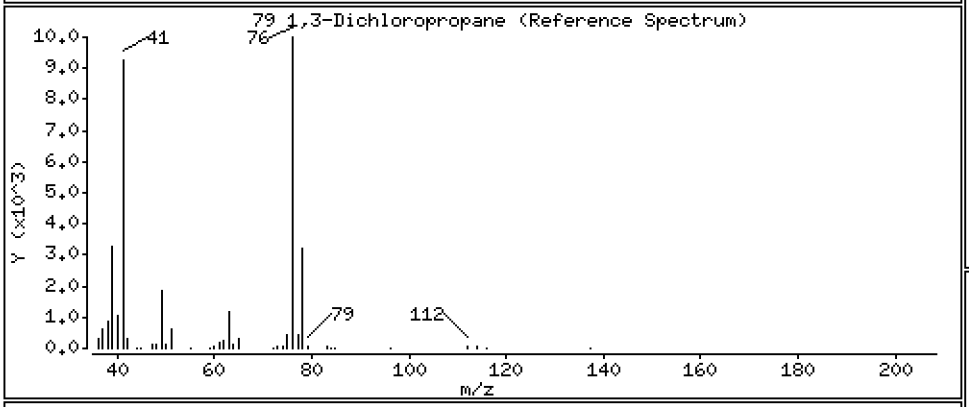
79 1,3-Dichloropropane Concentration: 99.3658 ug/L

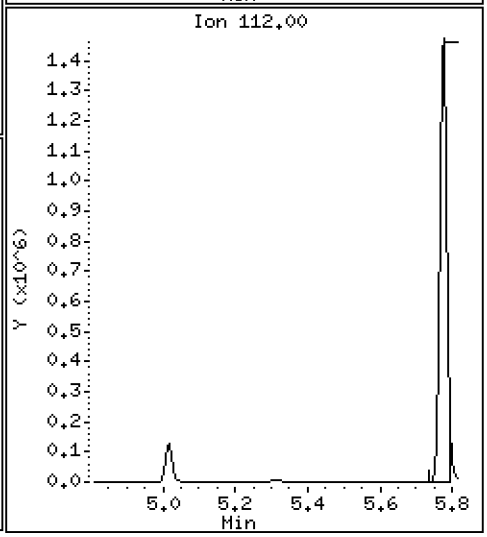


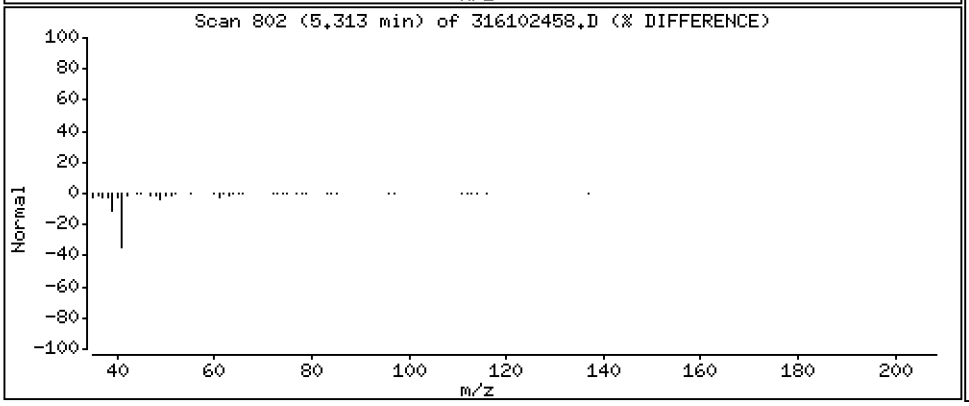












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 84

Date : 25-OCT-2016 01:14

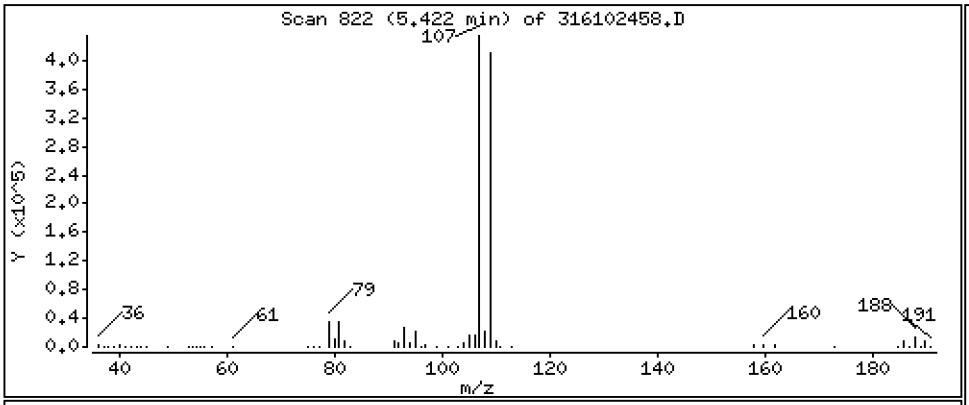
Client ID: Instrument: ms03.i

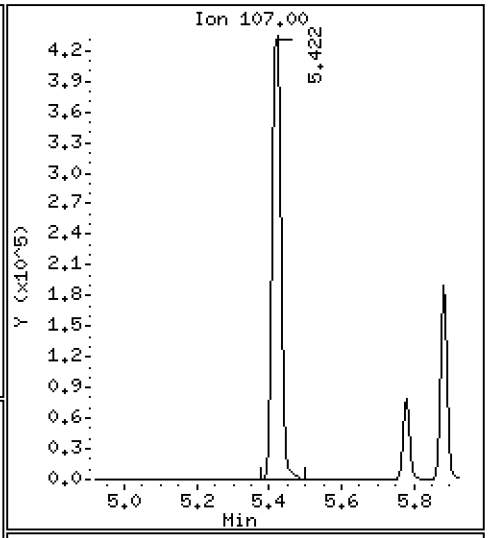
Sample Info: 1238;;1;1;5;;;

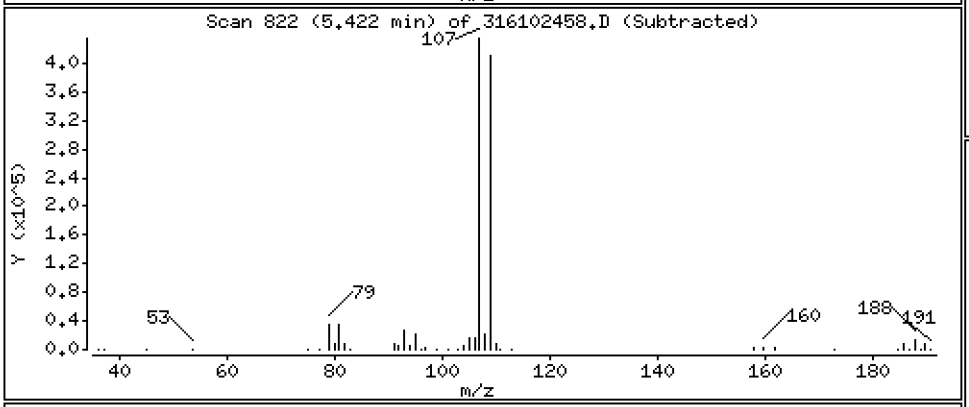
Purge Volume: 5.0 Operator: CJG

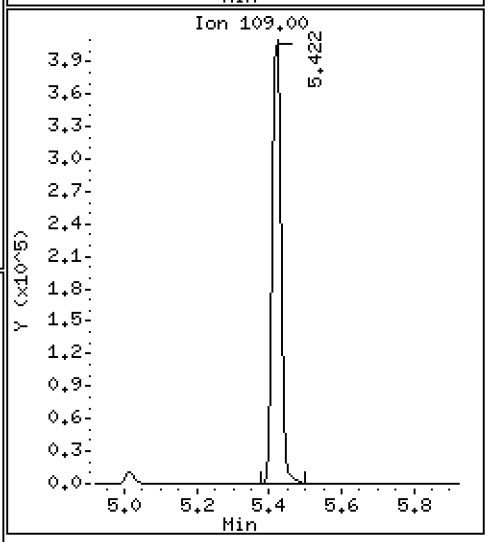
Column phase: DB-VRX Column diameter: 0.25

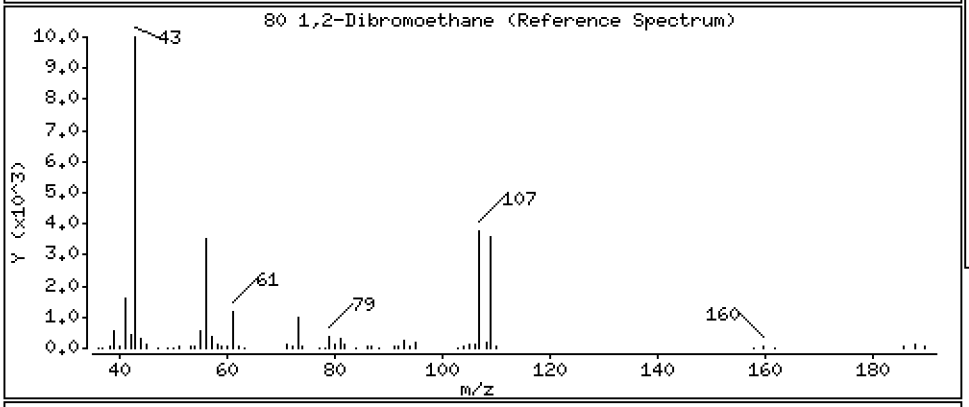
80 1,2-Dibromoethane Concentration: 99.9865 ug/L

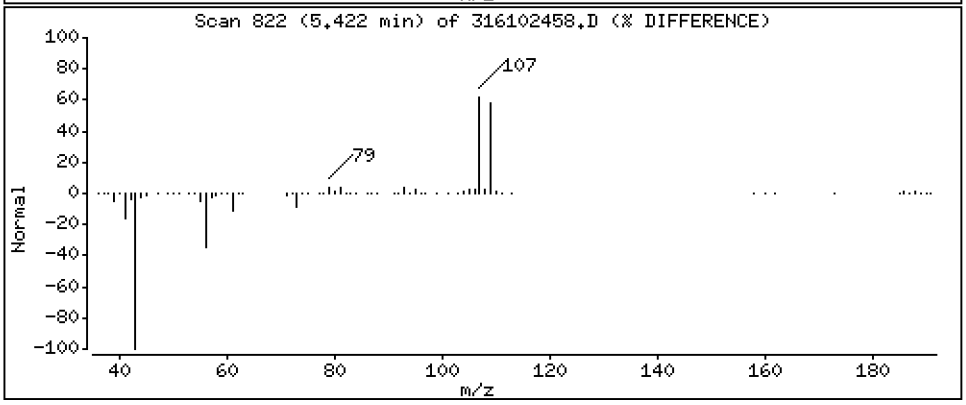












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 85

Date : 25-OCT-2016 01:14

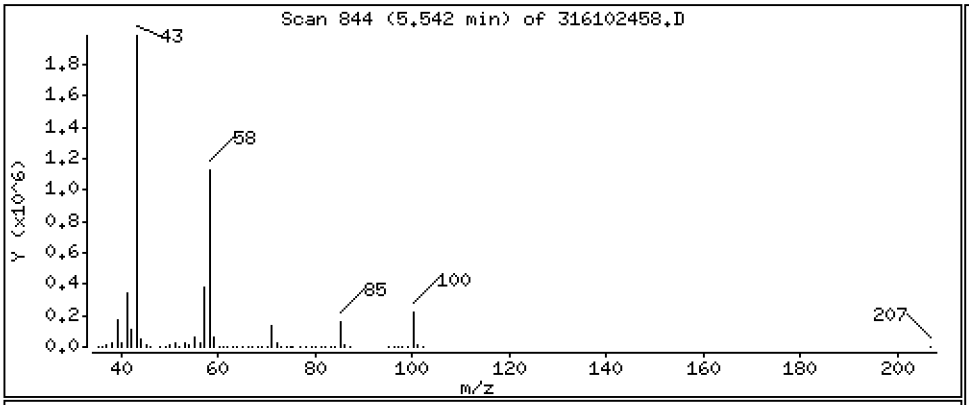
Client ID: Instrument: ms03.i

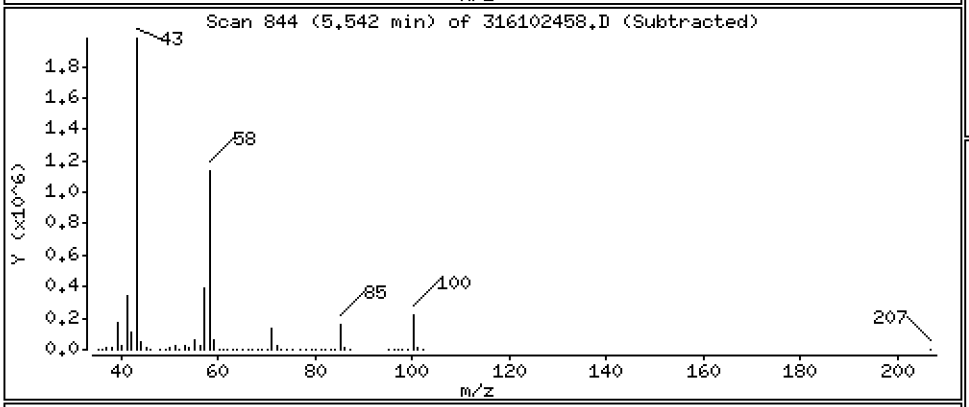
Sample Info: 1238;;1;1;5;;;

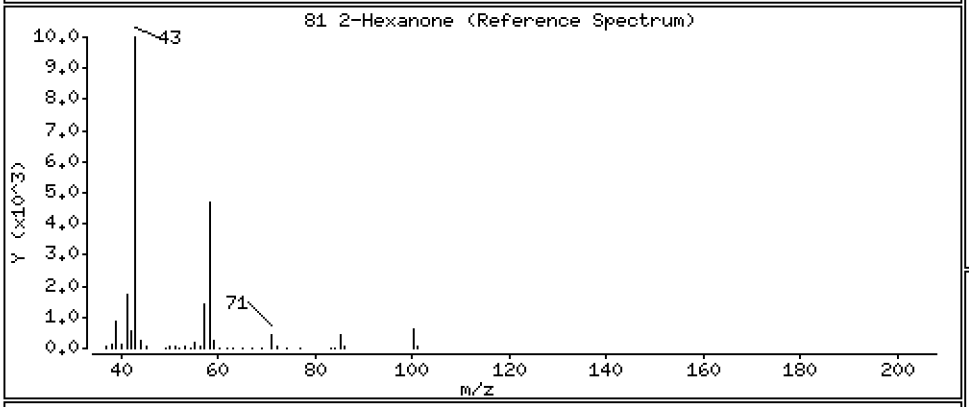
Purge Volume: 5.0 Operator: CJG

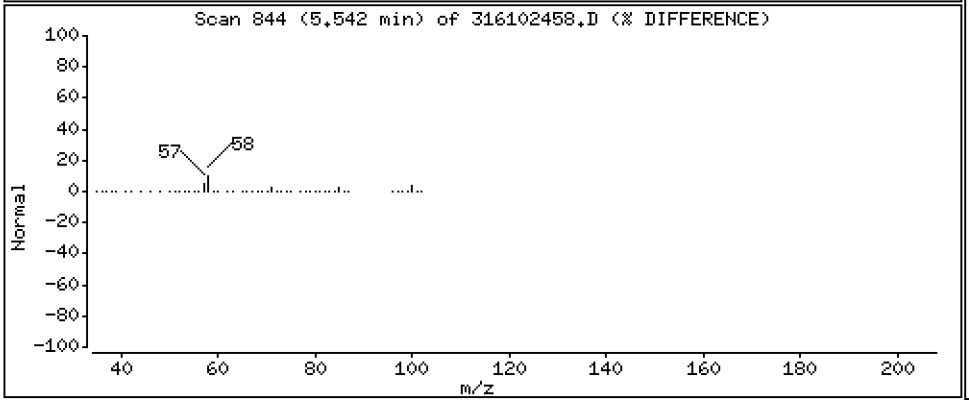
Column phase: DB-VRX Column diameter: 0.25

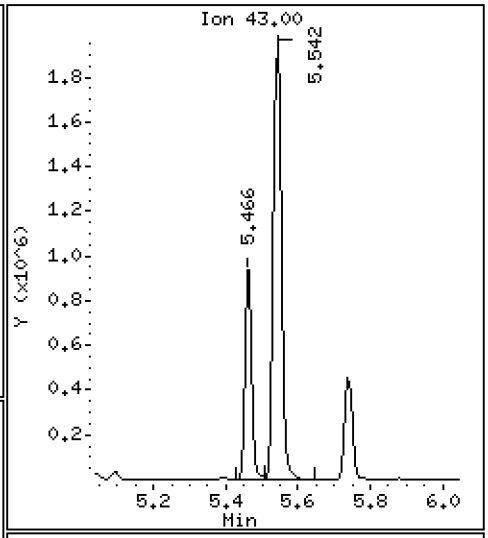
81 2-Hexanone Concentration: 498.469 ug/L

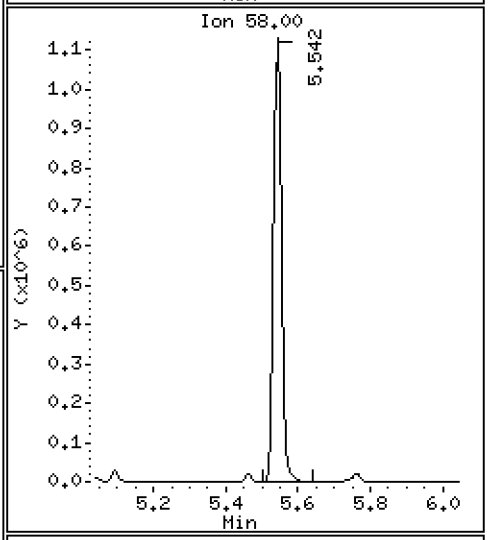


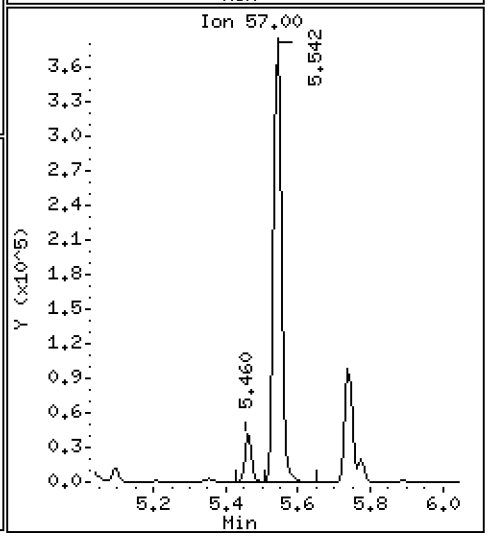












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 86

Date : 25-OCT-2016 01:14

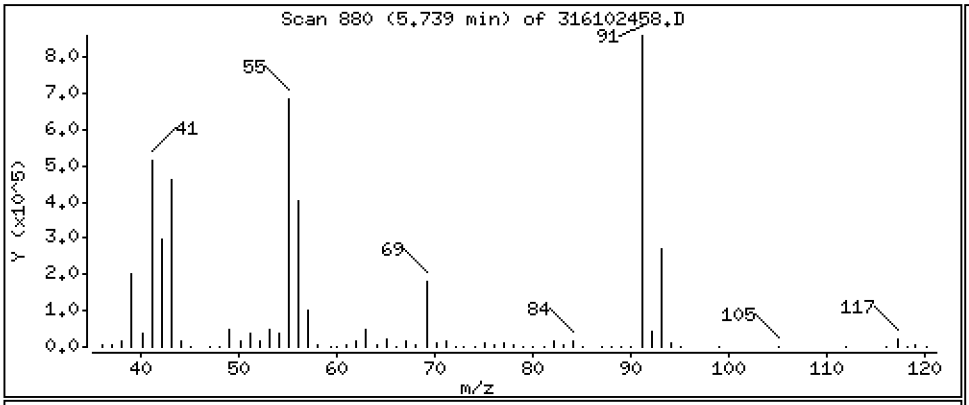
Client ID: Instrument: ms03.i

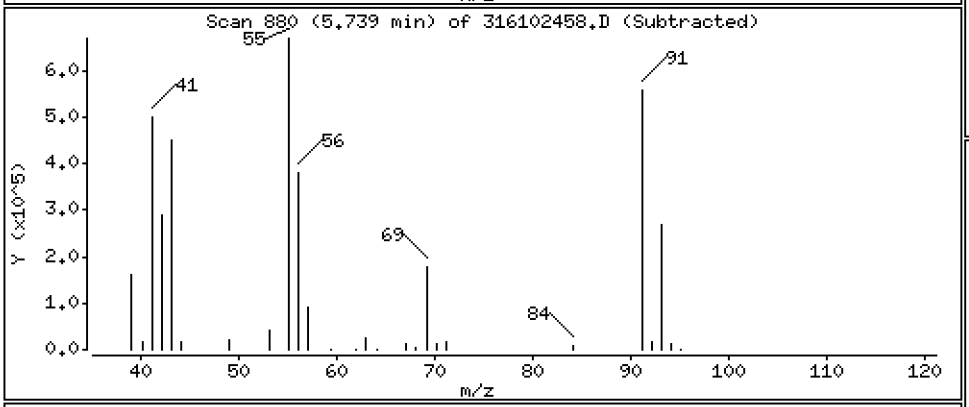
Sample Info: 1238;;1;1;5;;;

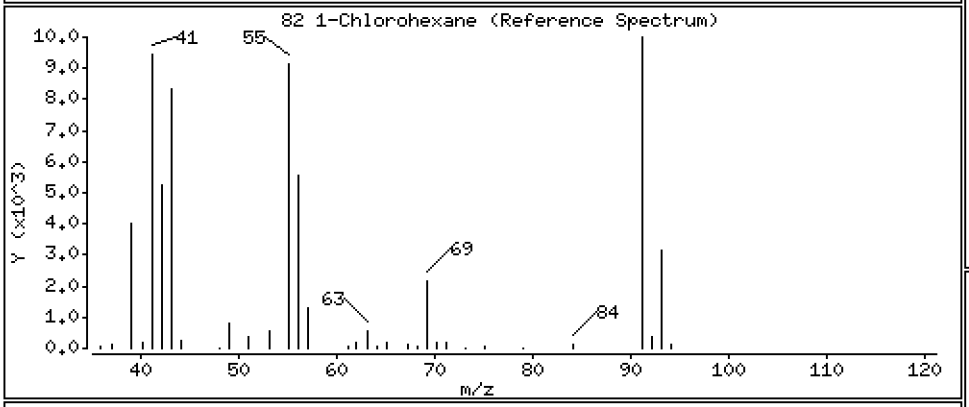
Purge Volume: 5.0 Operator: CJG

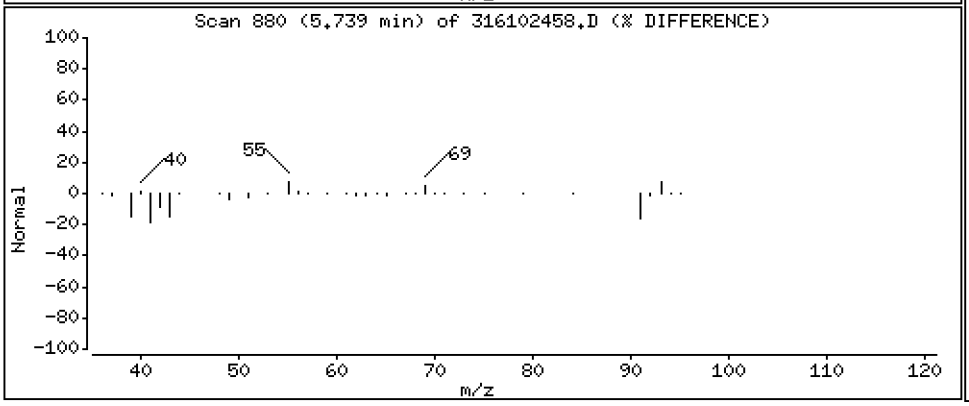
Column phase: DB-VRX Column diameter: 0.25

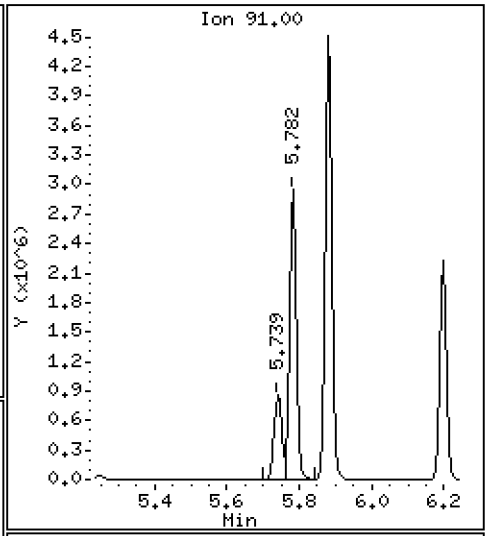
82 1-Chlorohexane Concentration: 101.688 ug/L

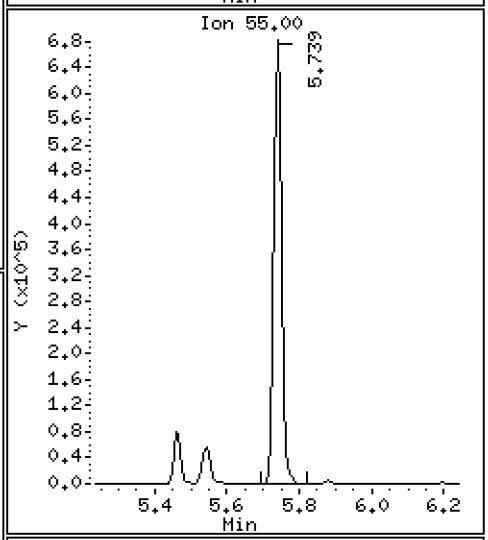


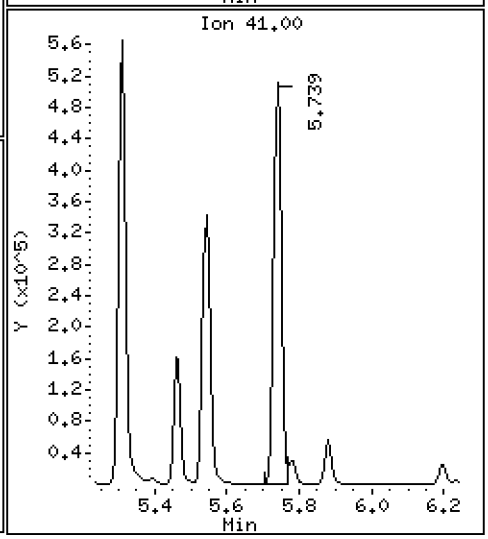












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 87

Date : 25-OCT-2016 01:14

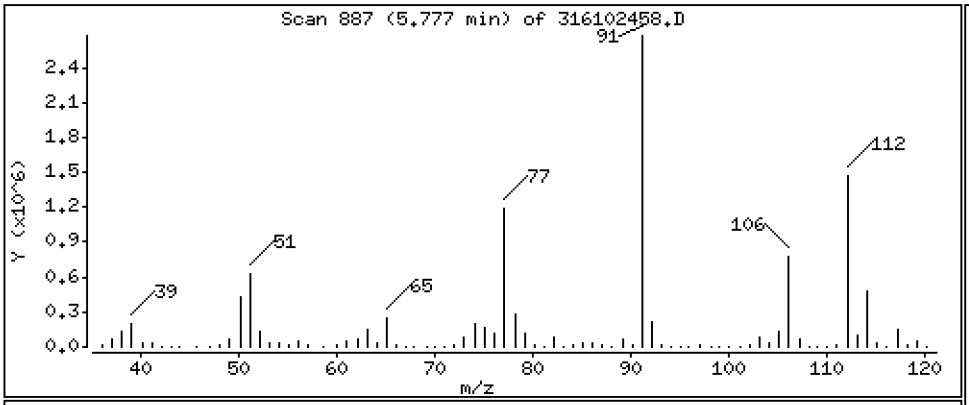
Client ID: Instrument: ms03.i

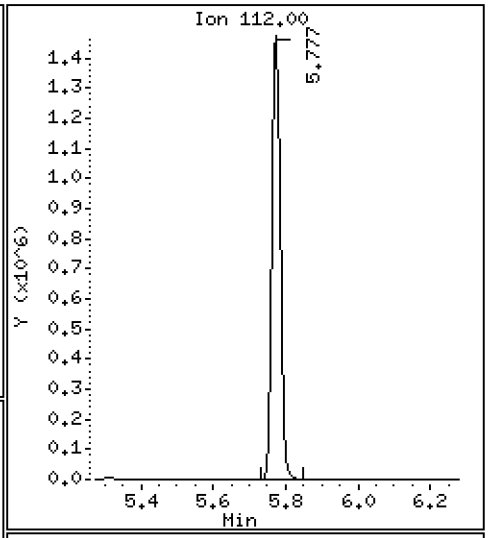
Sample Info: 1238;;1;1;5;;;

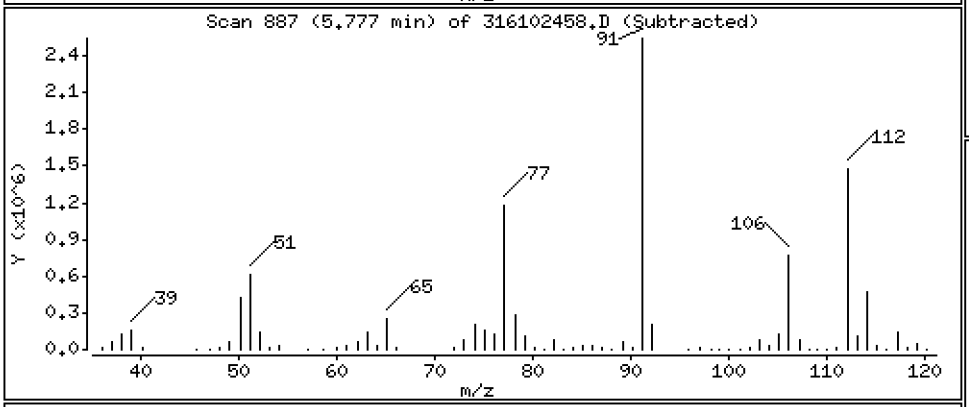
Purge Volume: 5.0 Operator: CJG

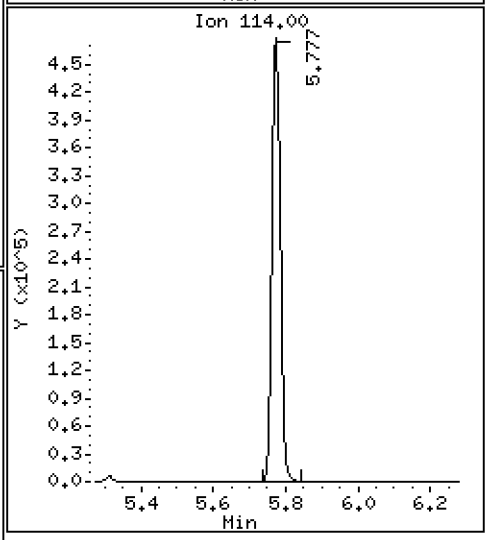
Column phase: DB-VRX Column diameter: 0.25

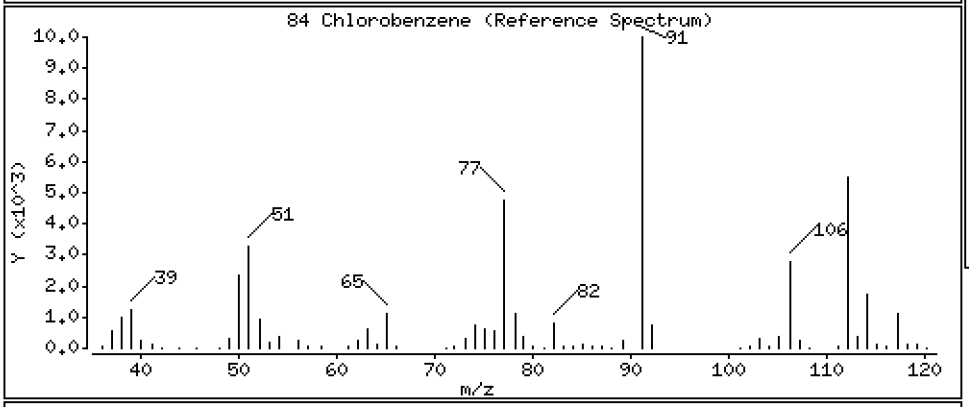
84 Chlorobenzene Concentration: 99.5856 ug/L

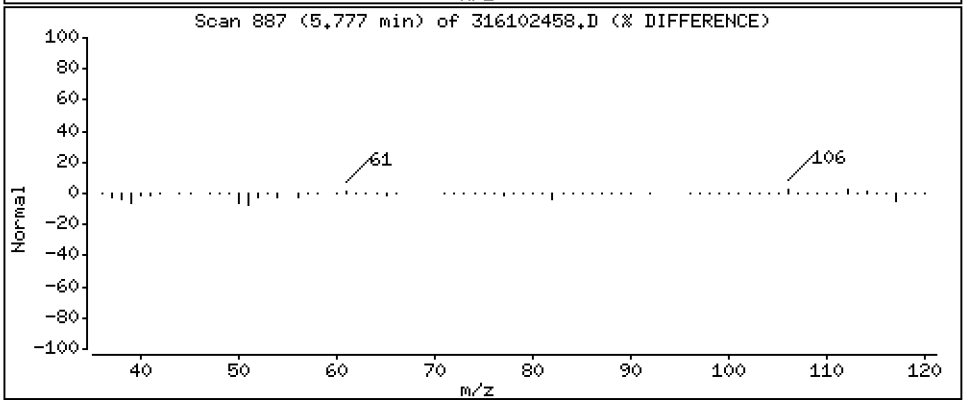












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 88

Date : 25-OCT-2016 01:14

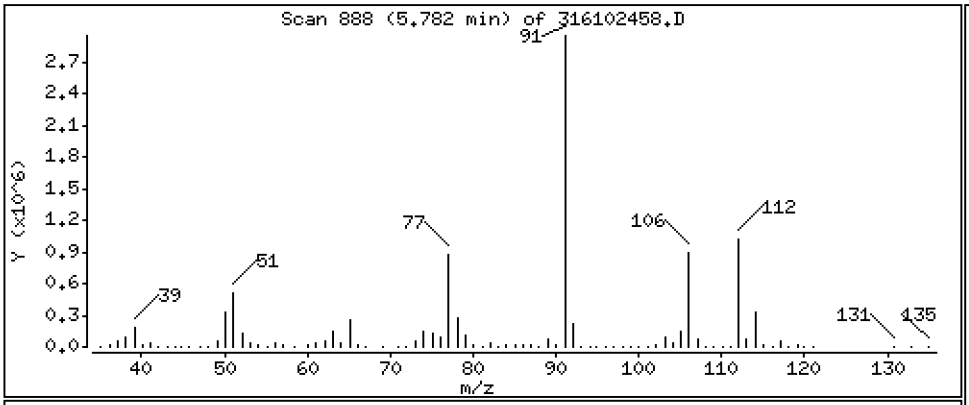
Client ID: Instrument: ms03.i

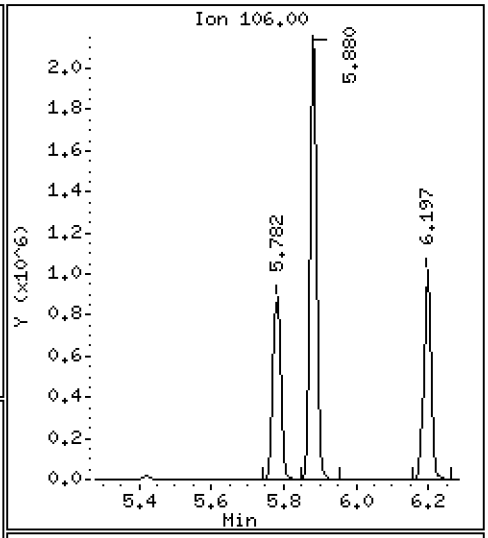
Sample Info: 1238;;1;1;5;;;

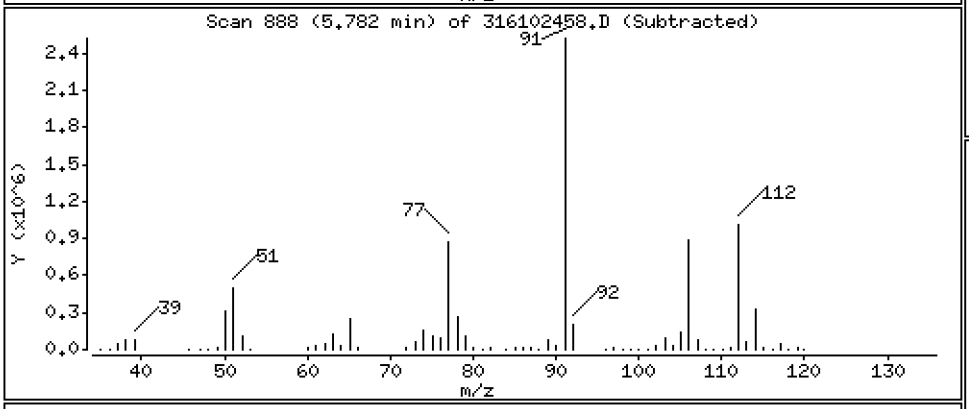
Purge Volume: 5.0 Operator: CJG

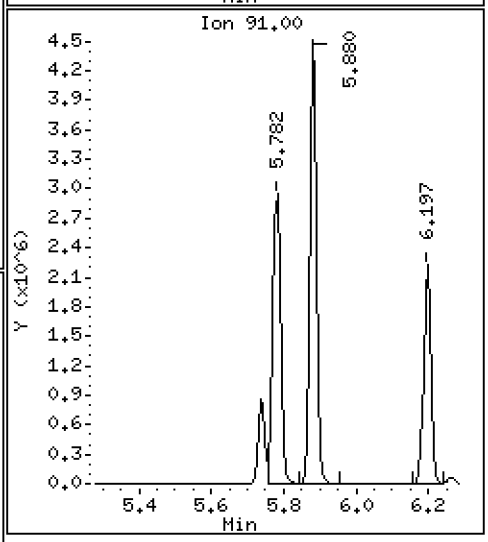
Column phase: DB-VRX Column diameter: 0.25

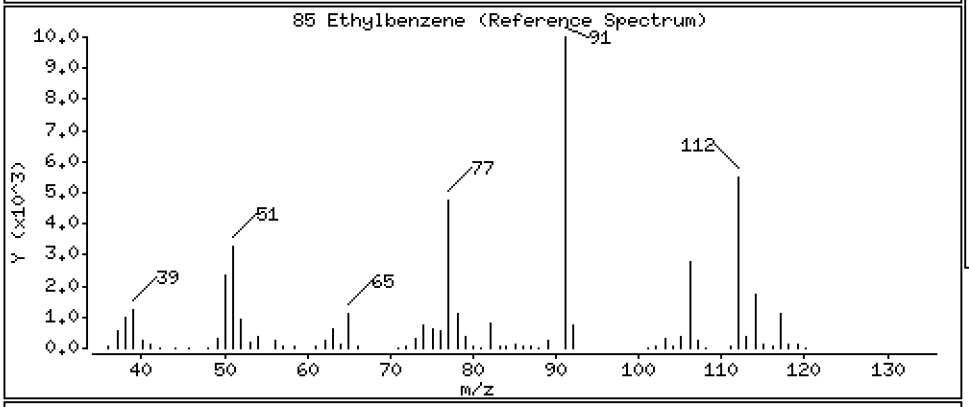
85 Ethylbenzene Concentration: 99.7172 ug/L

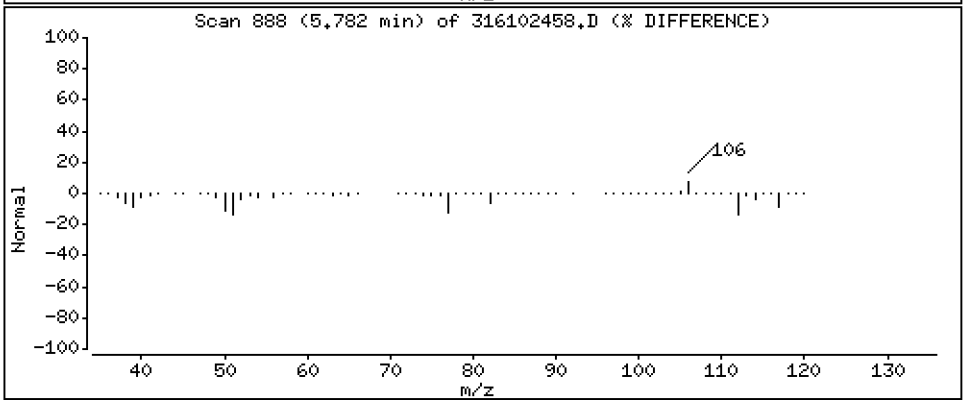












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 89

Date : 25-OCT-2016 01:14

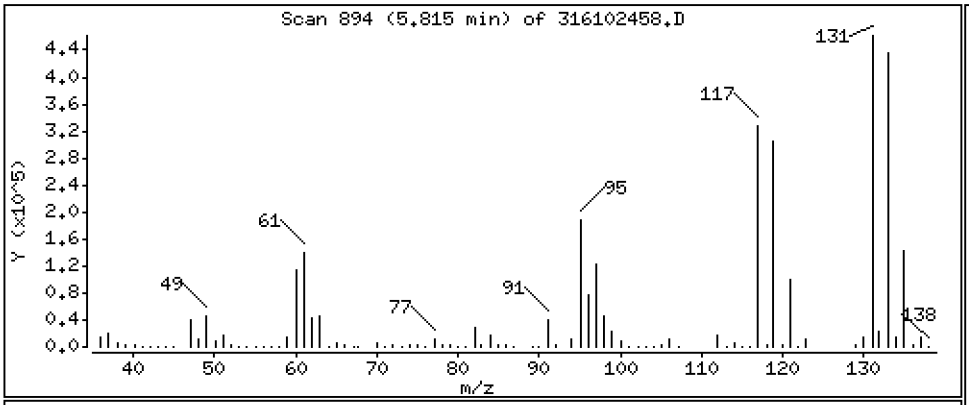
Client ID: Instrument: ms03.i

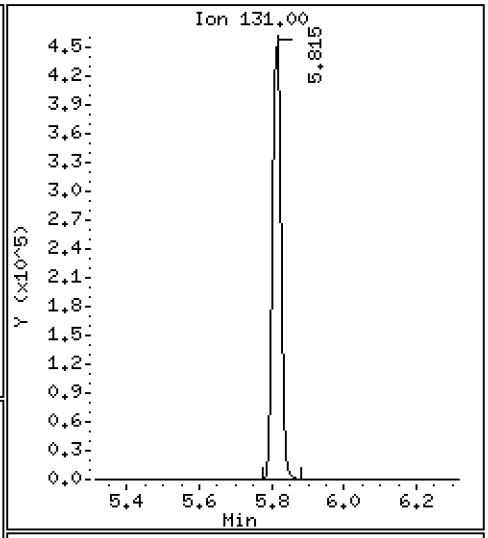
Sample Info: 1238;;1;1;5;;;

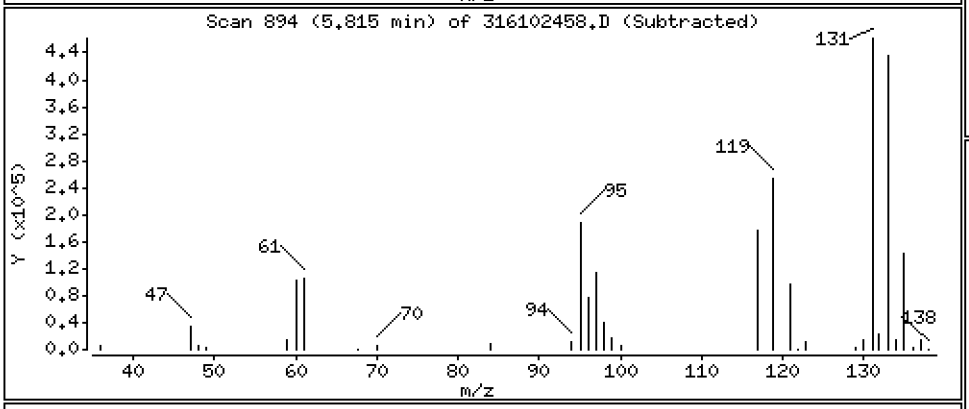
Purge Volume: 5.0 Operator: CJG

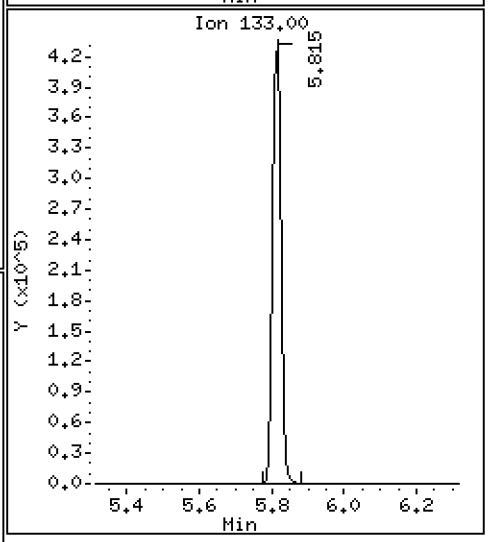
Column phase: DB-VRX Column diameter: 0.25

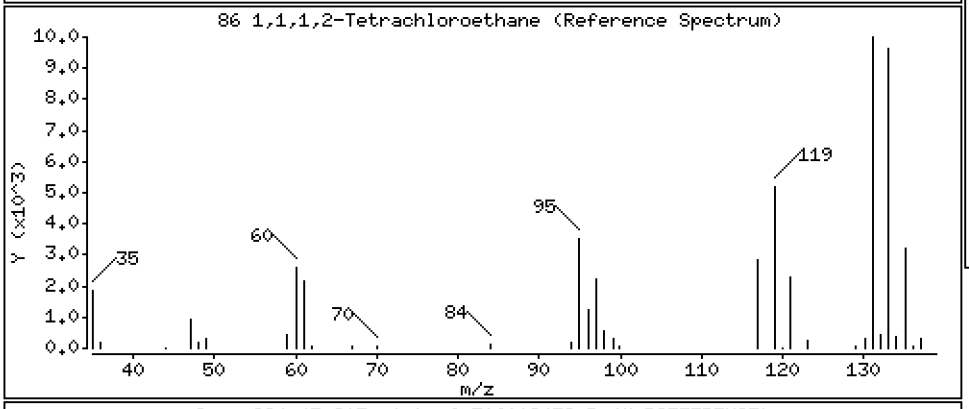
86 1,1,1,2-Tetrachloroethane Concentration: 100.305 ug/L

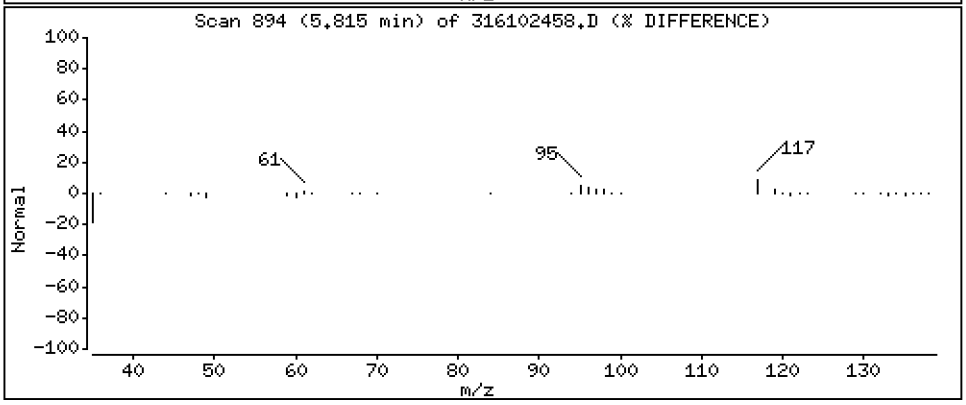












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 90

Date : 25-OCT-2016 01:14

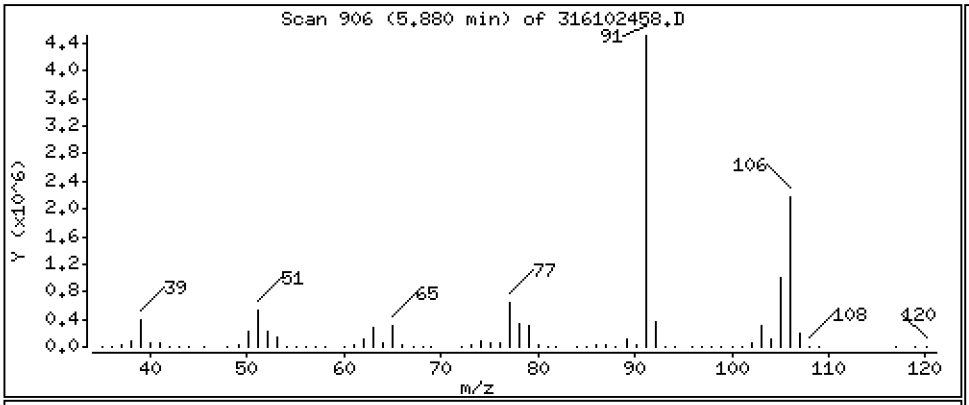
Client ID: Instrument: ms03.i

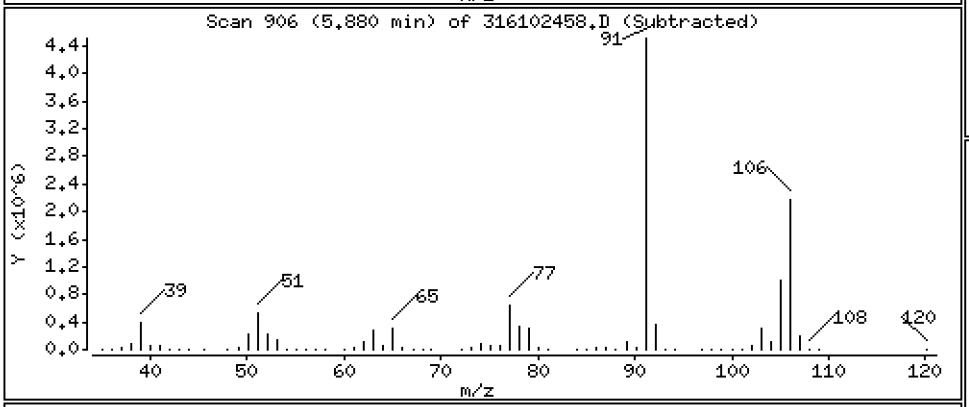
Sample Info: 1238;;1;1;5;;;

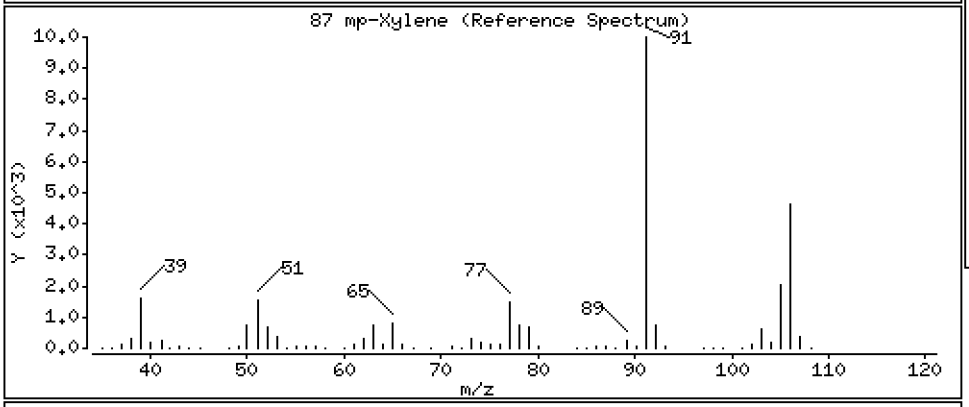
Purge Volume: 5.0 Operator: CJG

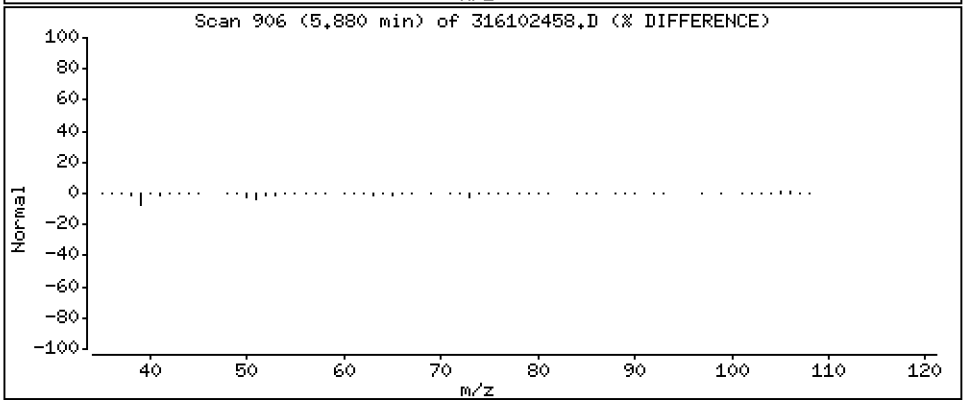
Column phase: DB-VRX Column diameter: 0.25

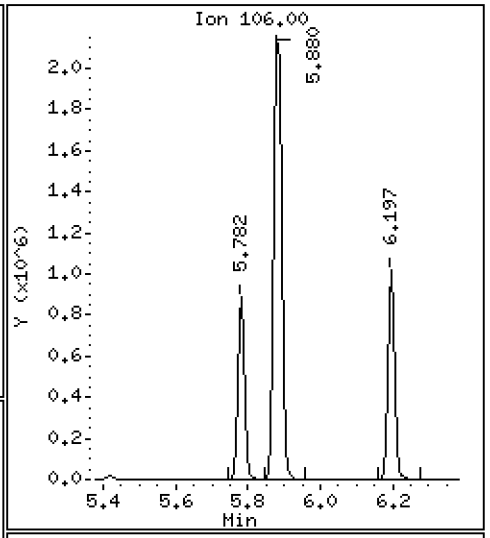
87 mp-Xylene Concentration: 199.568 ug/L

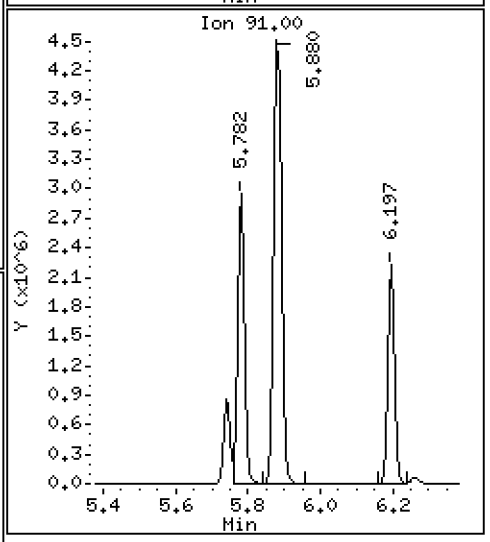












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 91

Date : 25-OCT-2016 01:14

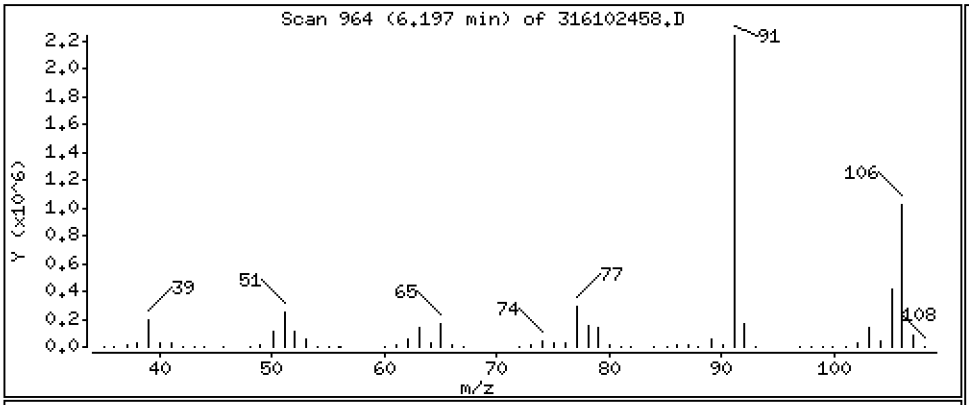
Client ID: Instrument: ms03.i

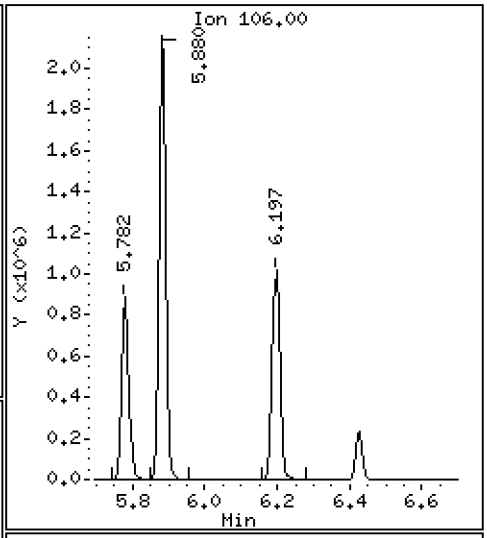
Sample Info: 1238;;1;1;5;;;

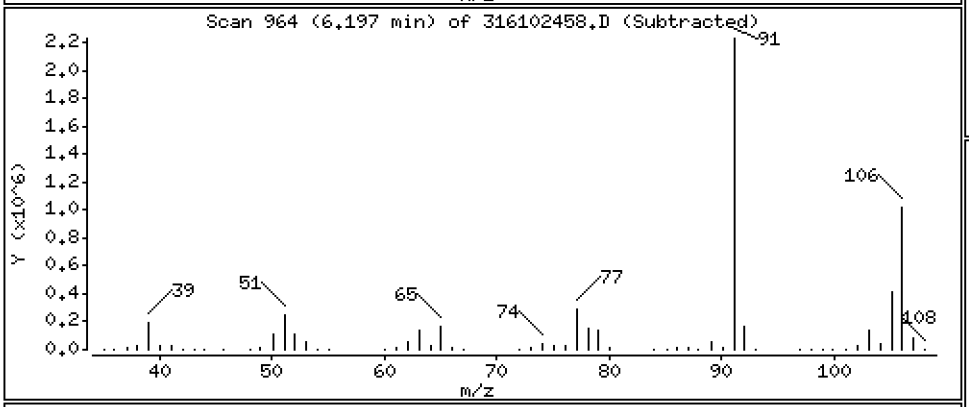
Purge Volume: 5.0 Operator: CJG

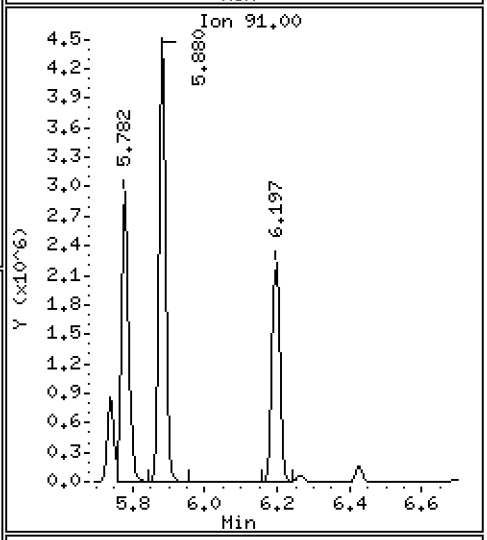
Column phase: DB-VRX Column diameter: 0.25

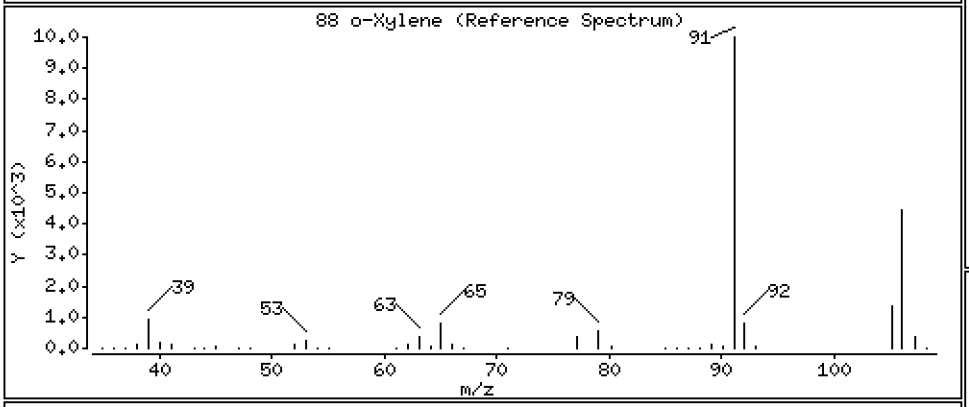
88 o-Xylene Concentration: 100.756 ug/L

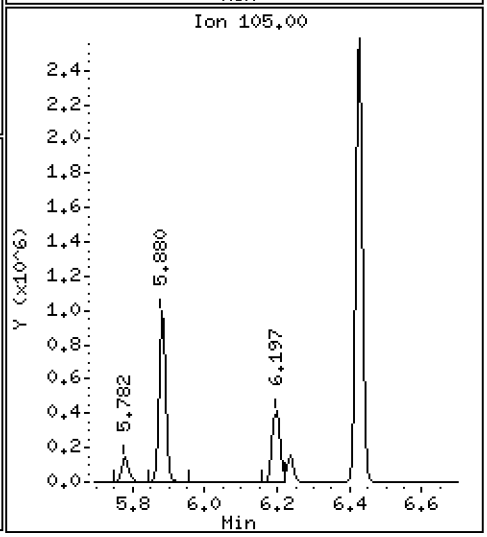


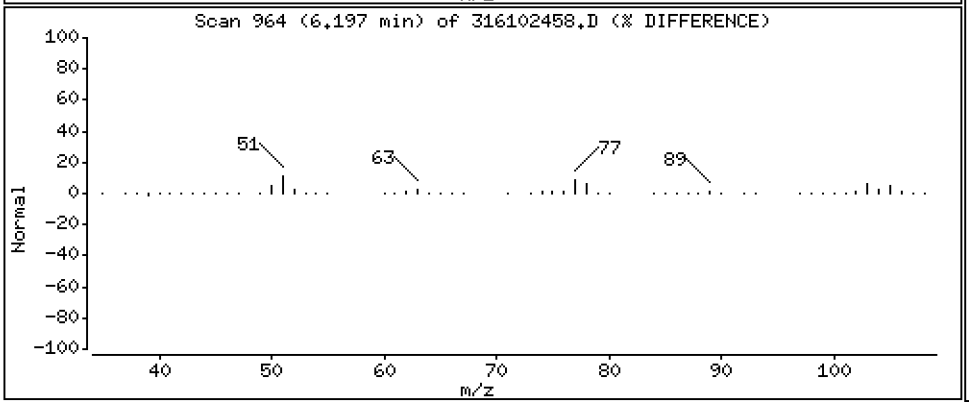












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 92

Date : 25-OCT-2016 01:14

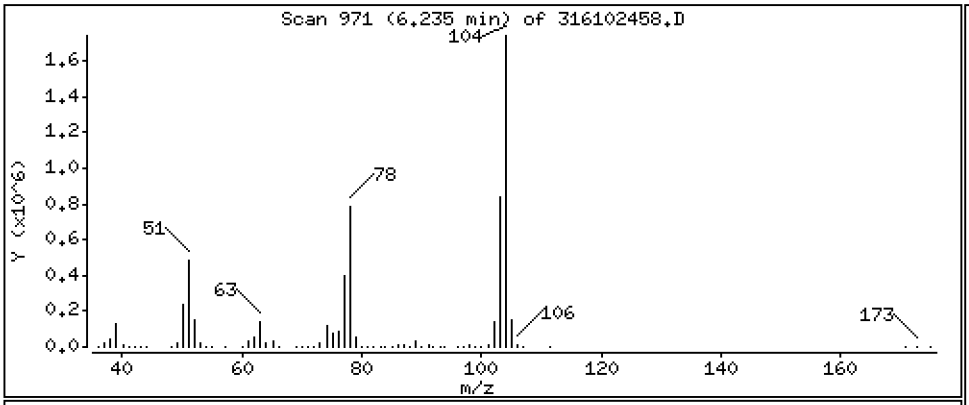
Client ID: Instrument: ms03.i

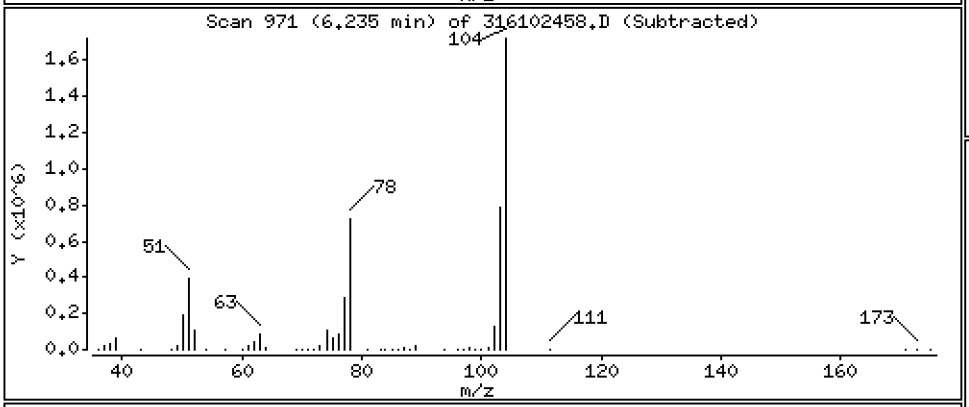
Sample Info: 1238;;1;1;5;;;

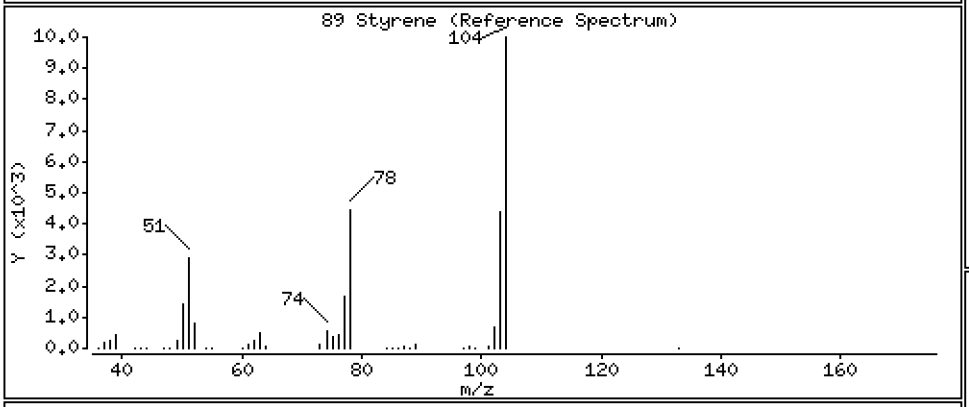
Purge Volume: 5.0 Operator: CJG

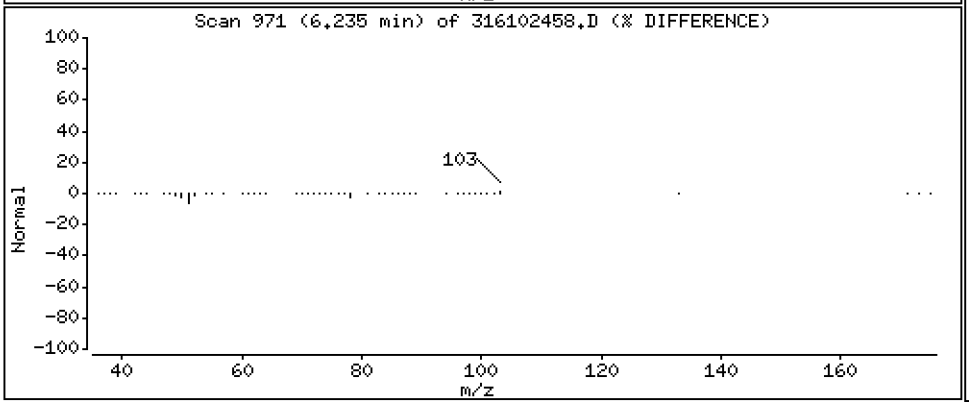
Column phase: DB-VRX Column diameter: 0.25

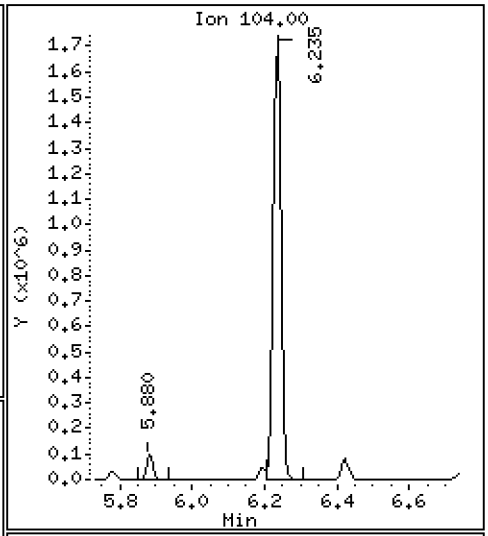
89 Styrene Concentration: 100.659 ug/L

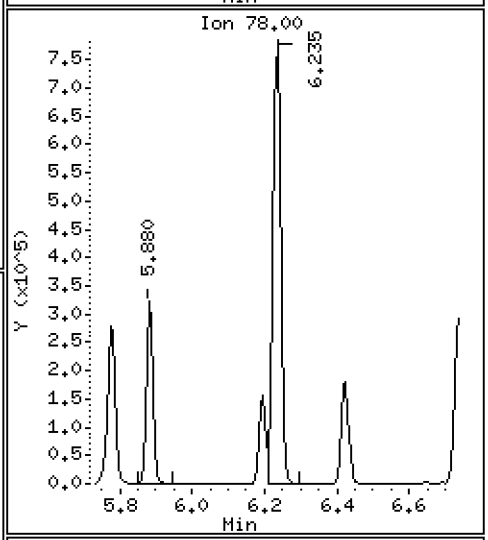


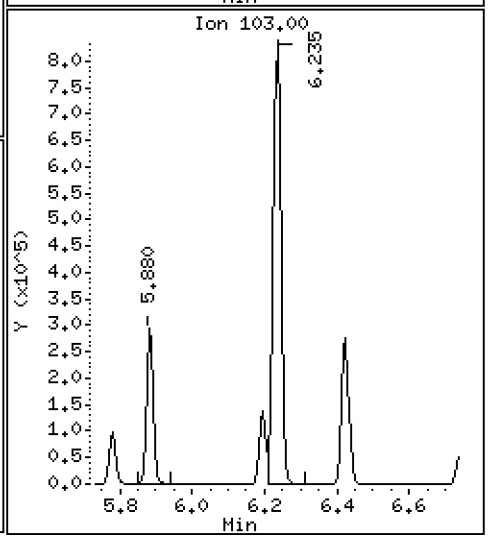












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 93

Date : 25-OCT-2016 01:14

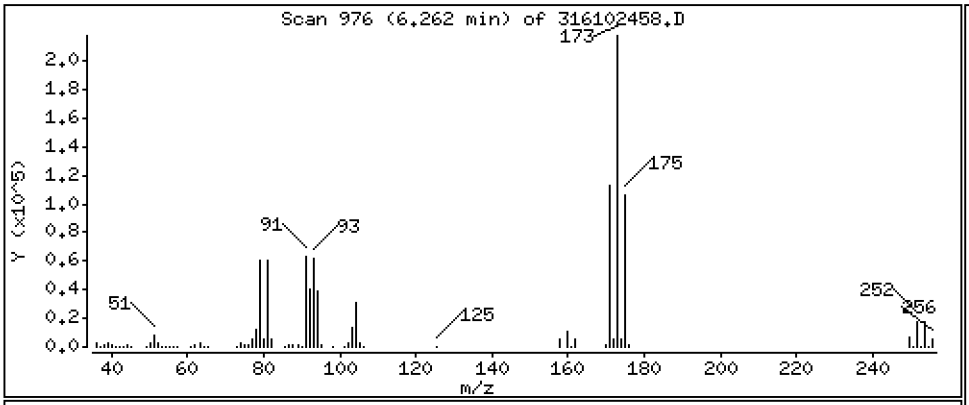
Client ID: Instrument: ms03.i

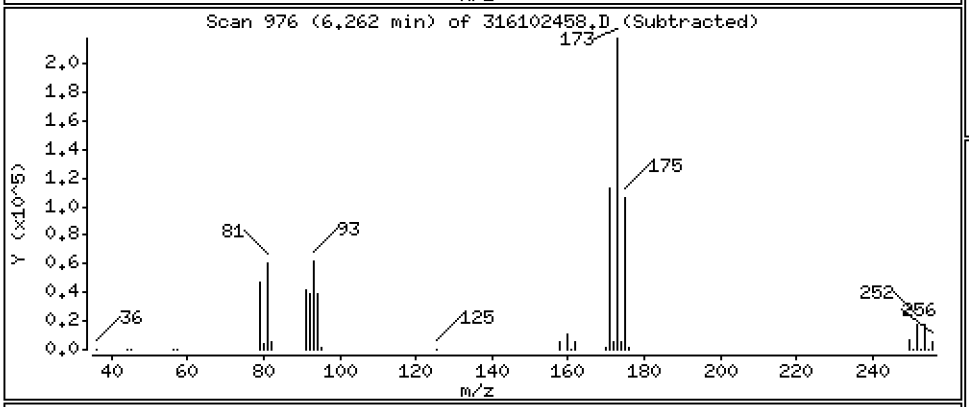
Sample Info: 1238;;1;1;5;;;

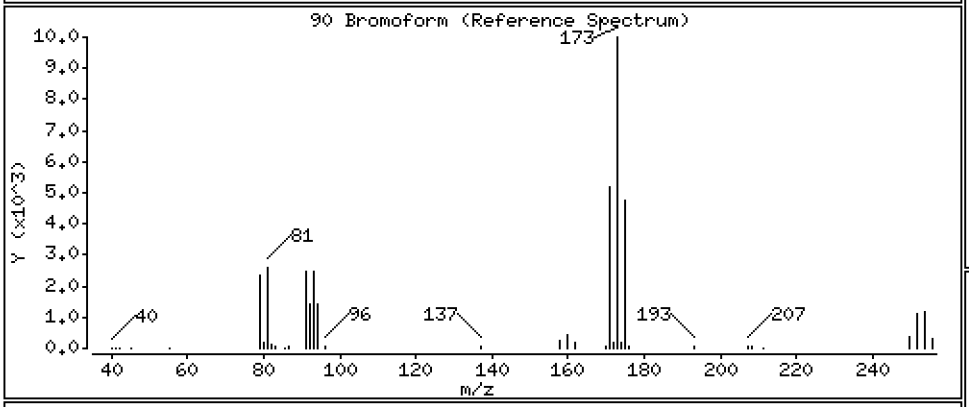
Purge Volume: 5.0 Operator: CJG

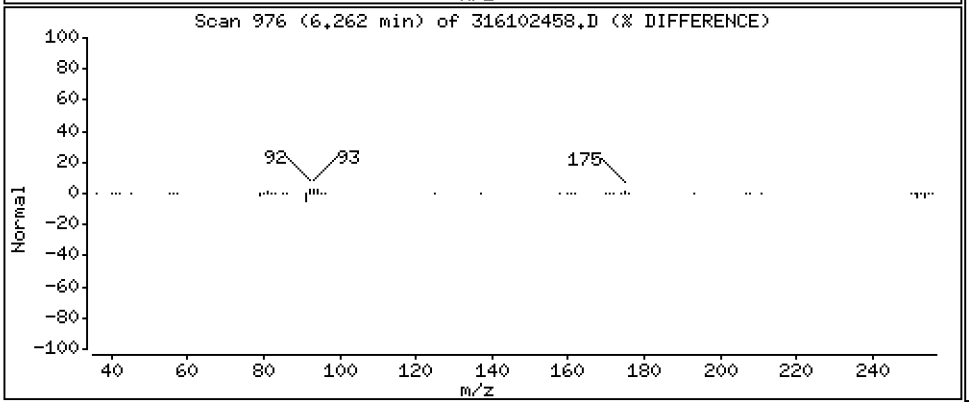
Column phase: DB-VRX Column diameter: 0.25

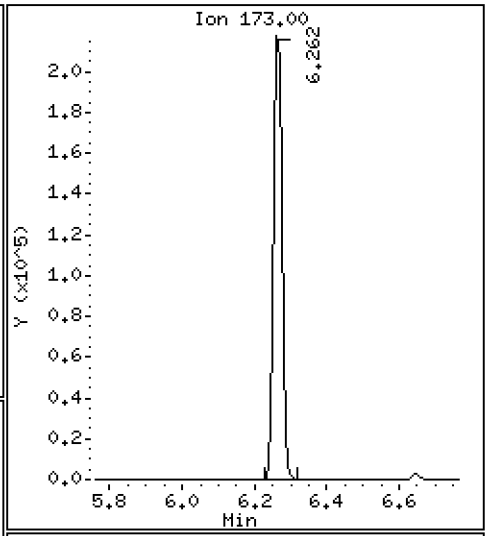
90 Bromoform Concentration: 101.244 ug/L

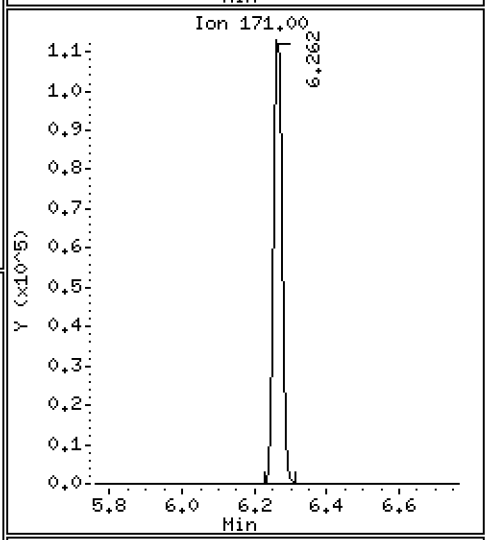


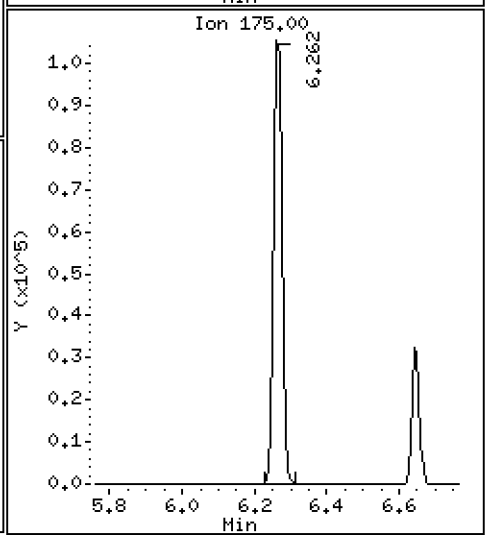












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 94

Date : 25-OCT-2016 01:14

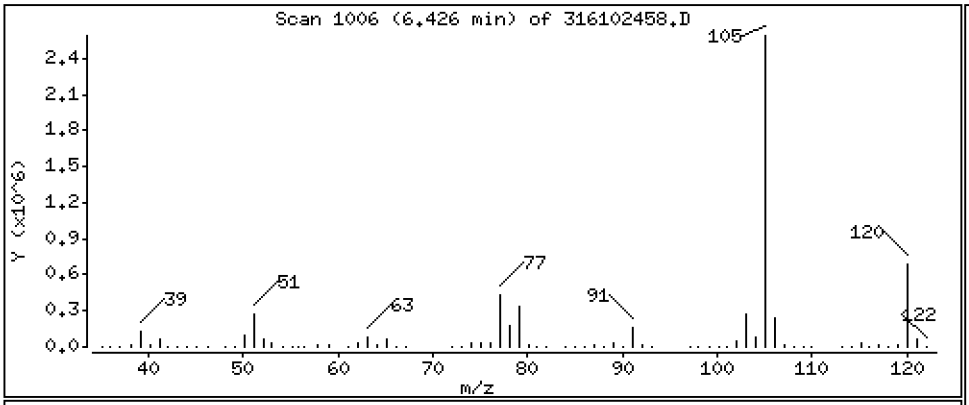
Client ID: Instrument: ms03.i

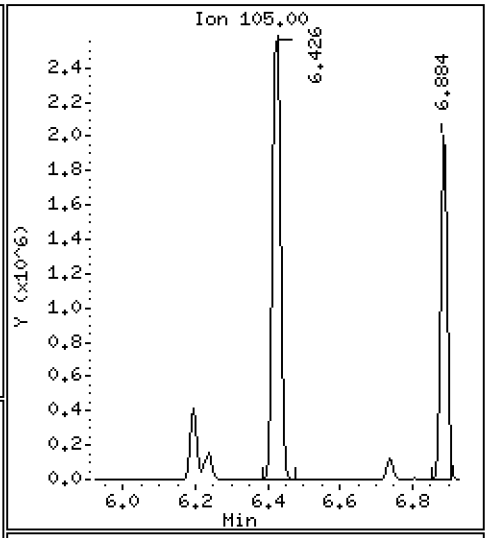
Sample Info: 1238;;1;1;5;;;

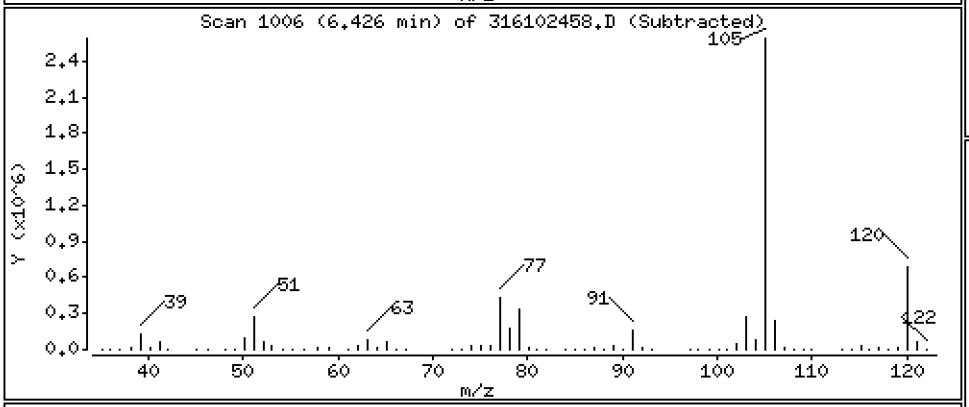
Purge Volume: 5.0 Operator: CJG

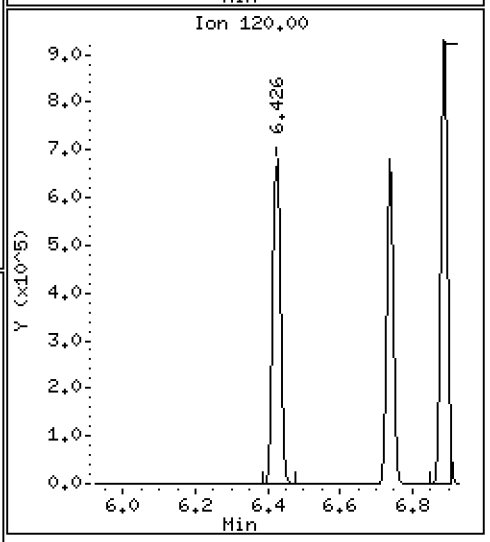
Column phase: DB-VRX Column diameter: 0.25

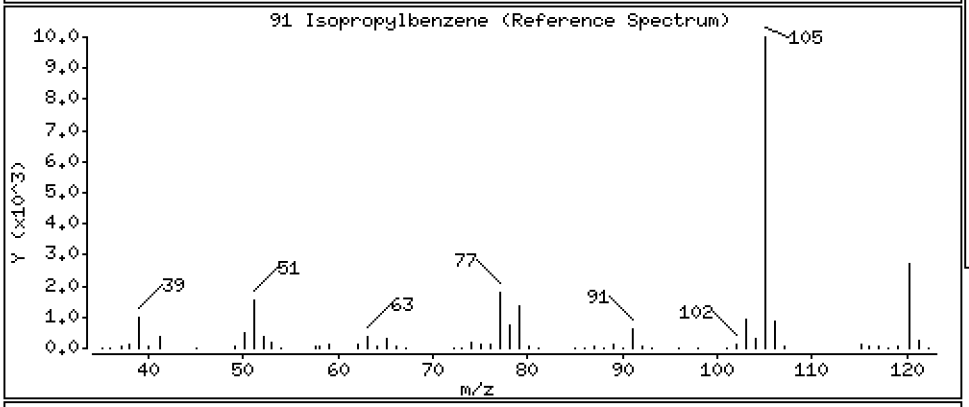
91 Isopropylbenzene Concentration: 100.368 ug/L

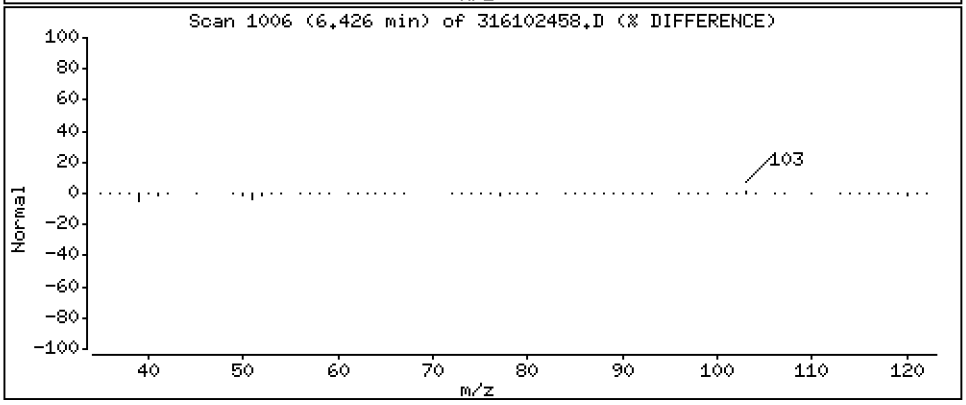












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 95

Date : 25-OCT-2016 01:14

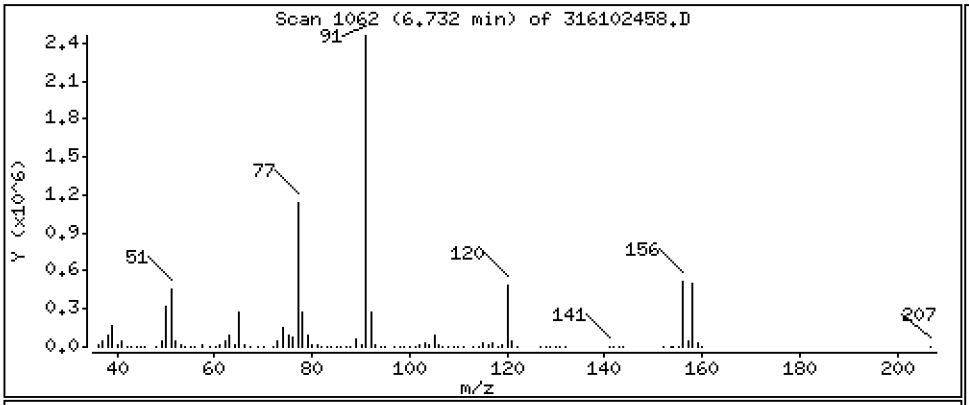
Client ID: Instrument: ms03.i

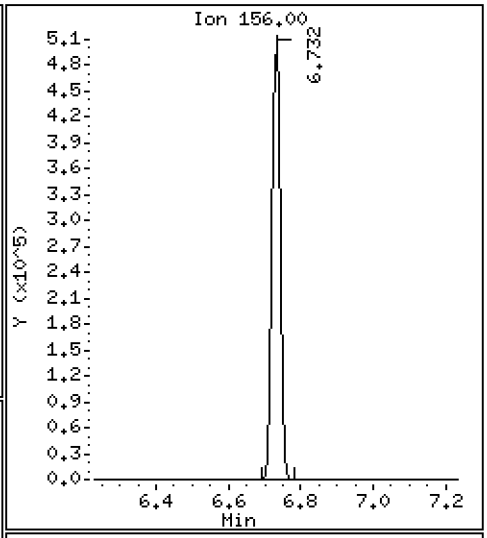
Sample Info: 1238;;1;1;5;;;

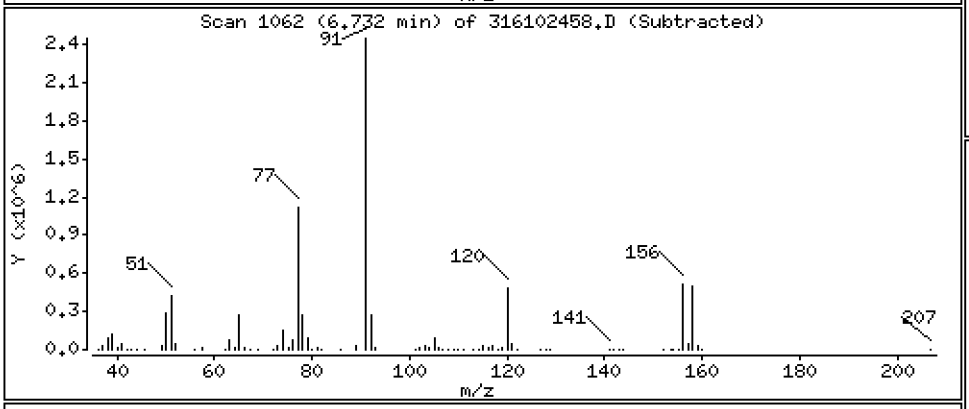
Purge Volume: 5.0 Operator: CJG

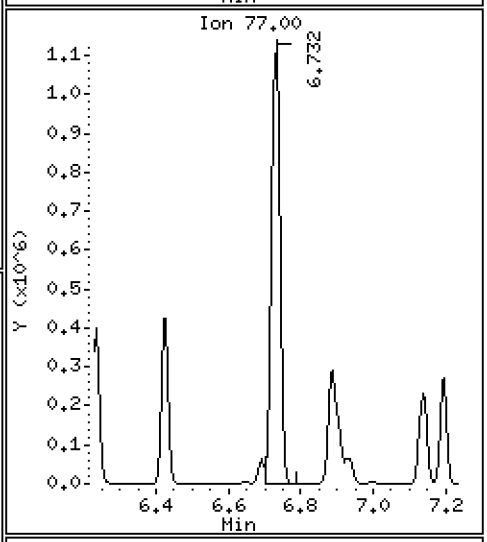
Column phase: DB-VRX Column diameter: 0.25

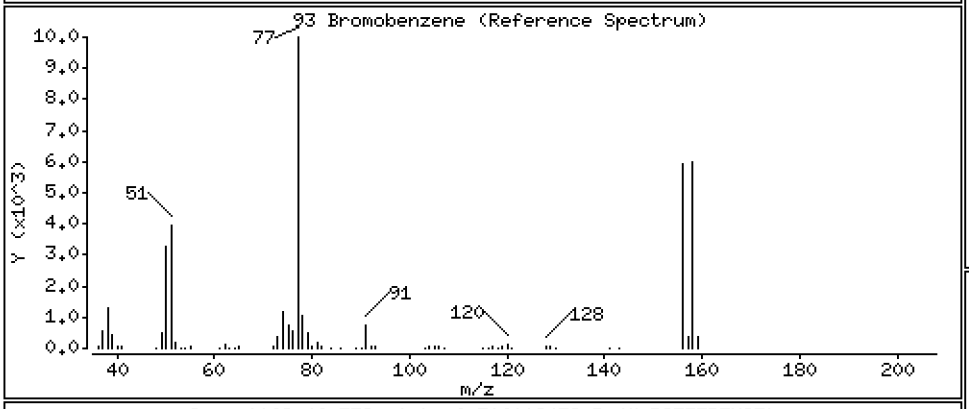
93 Bromobenzene Concentration: 100.220 ug/L

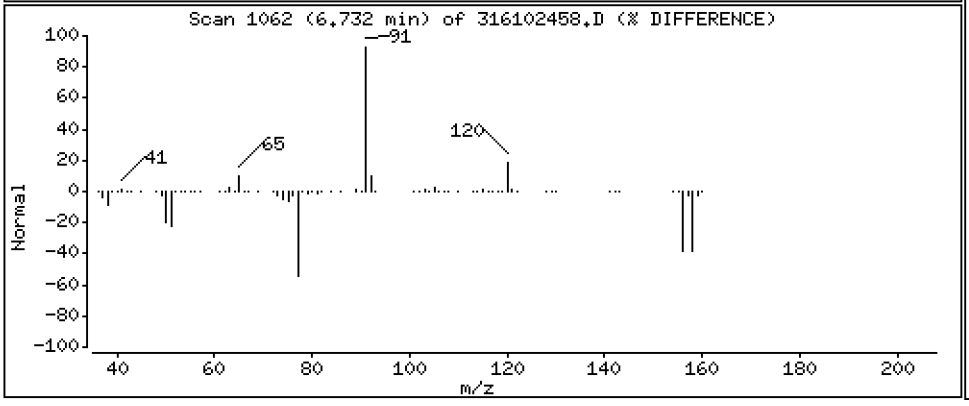


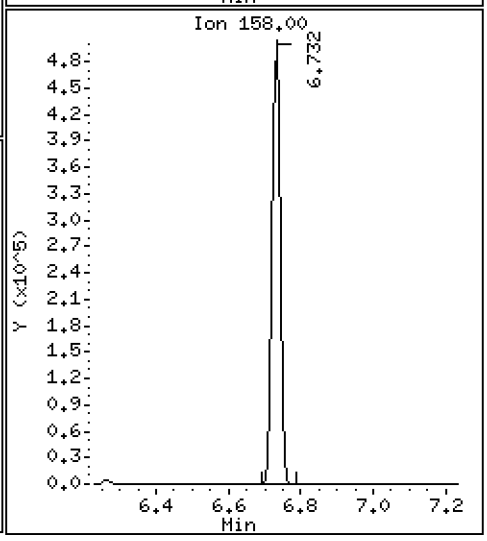












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 96

Date : 25-OCT-2016 01:14

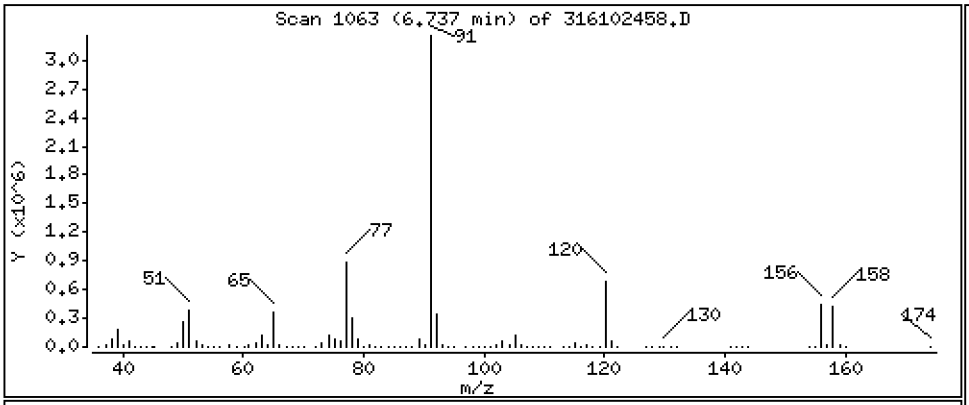
Client ID: Instrument: ms03.i

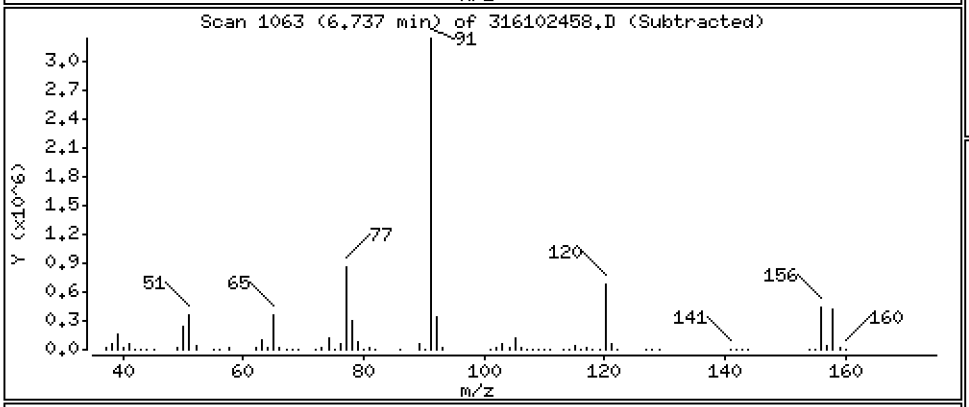
Sample Info: 1238;;1;1;5;;;

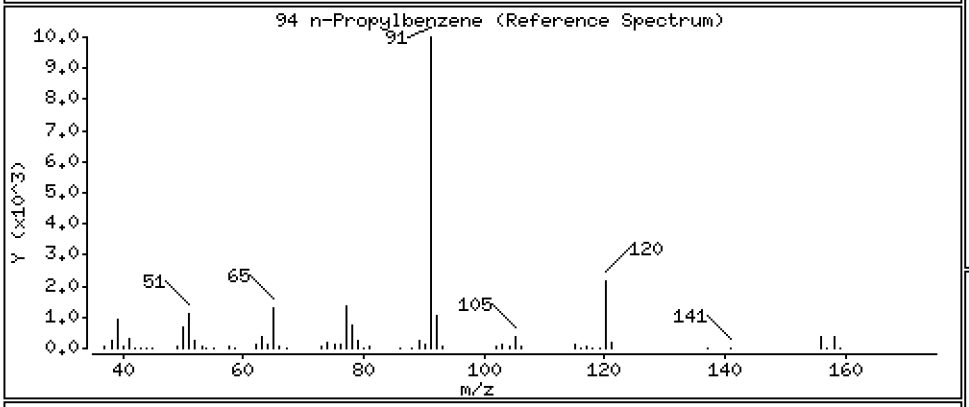
Purge Volume: 5.0 Operator: CJG

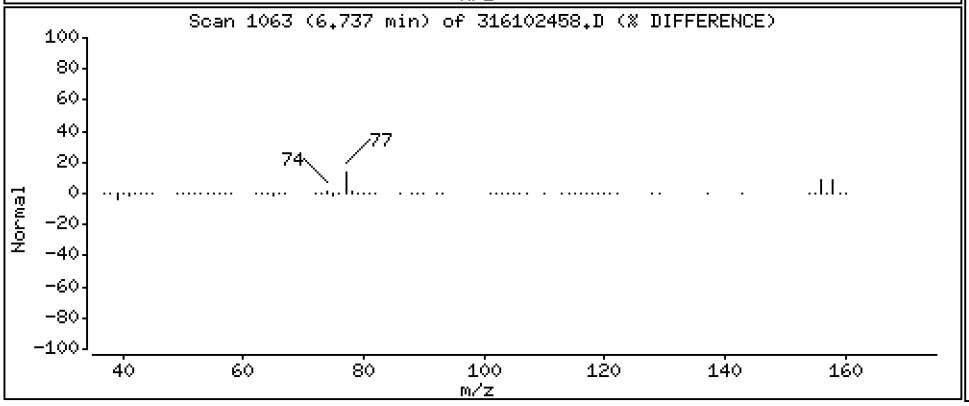
Column phase: DB-VRX Column diameter: 0.25

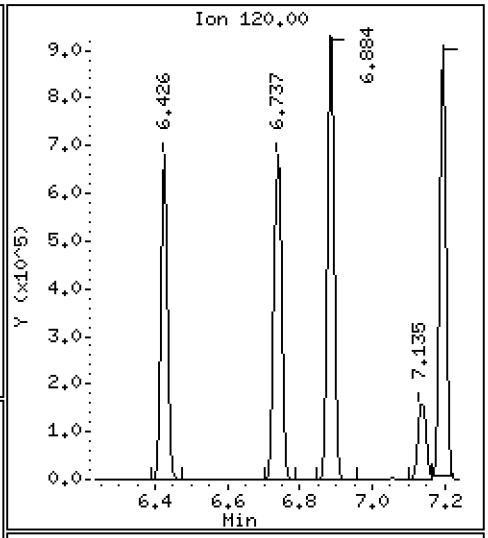
94 n-Propylbenzene Concentration: 100.283 ug/L

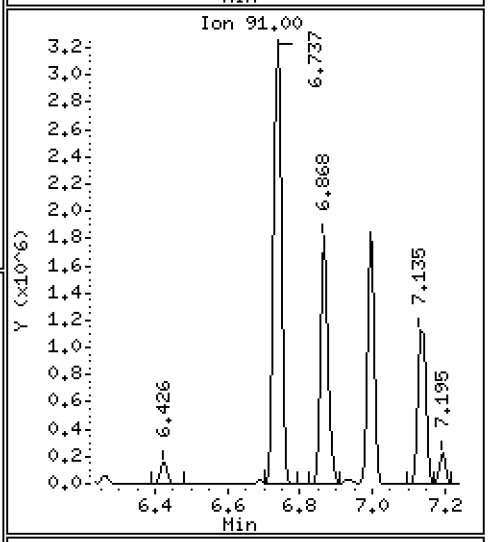


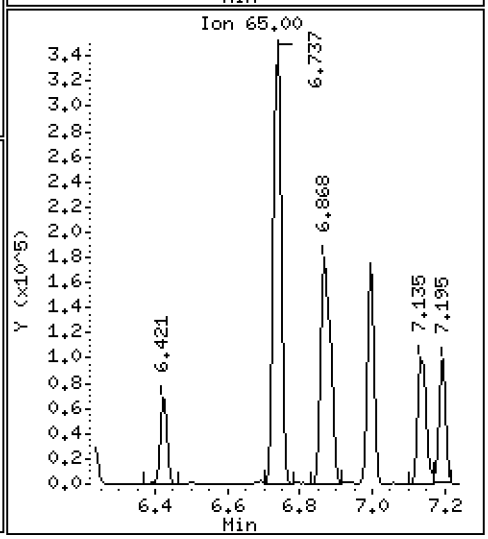












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 97

Date : 25-OCT-2016 01:14

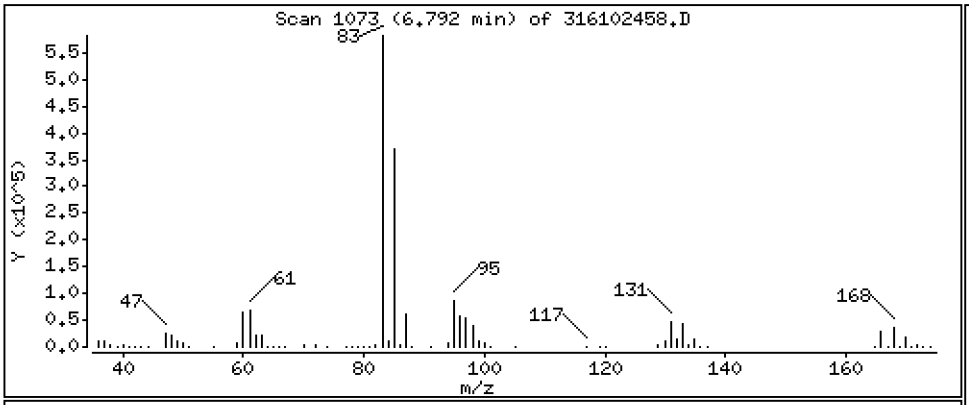
Client ID: Instrument: ms03.i

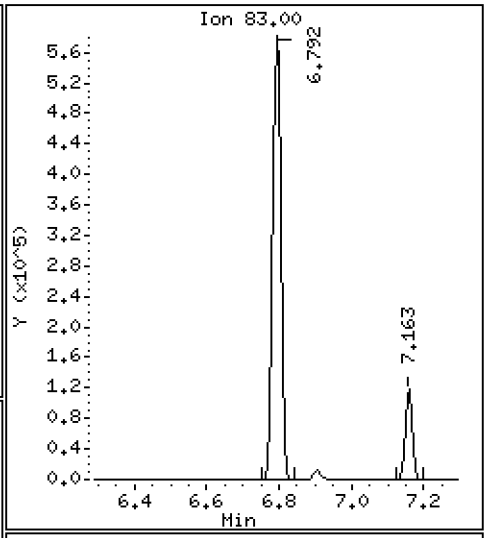
Sample Info: 1238;;1;1;5;;;

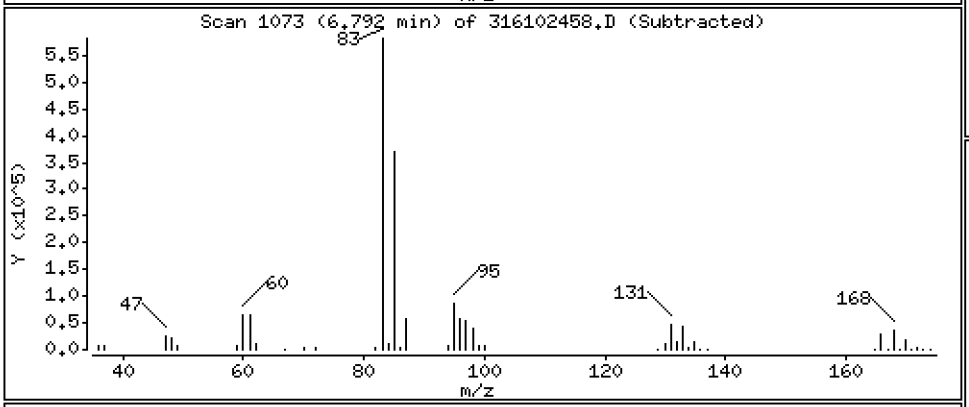
Purge Volume: 5.0 Operator: CJG

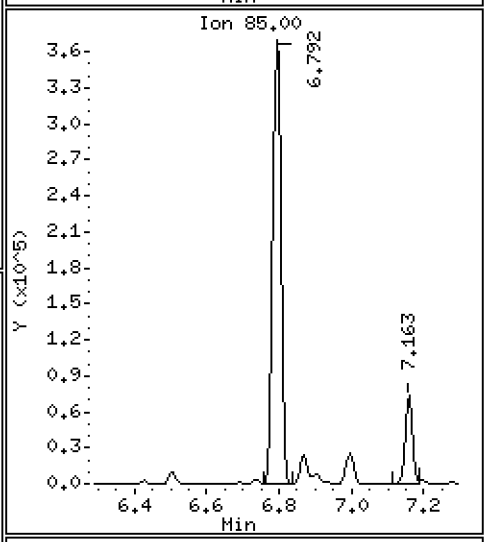
Column phase: DB-VRX Column diameter: 0.25

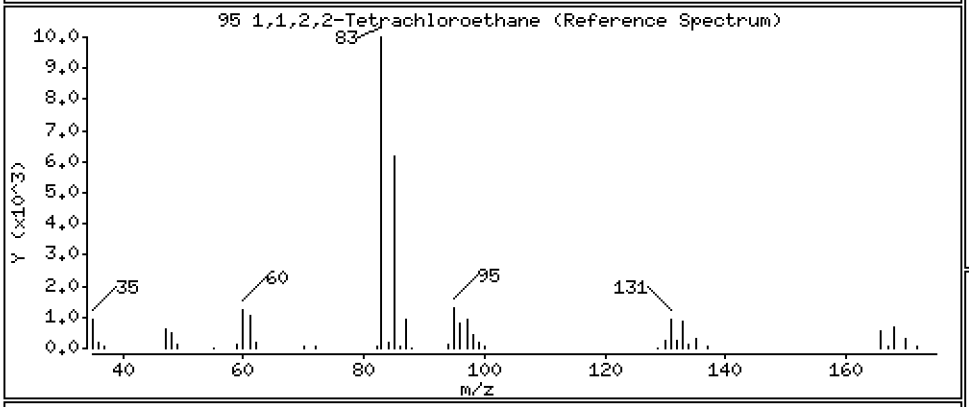
95 1,1,2,2-Tetrachloroethane Concentration: 99.3529 ug/L

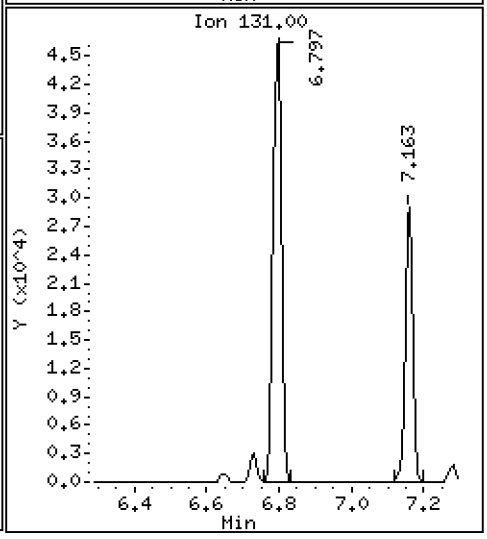


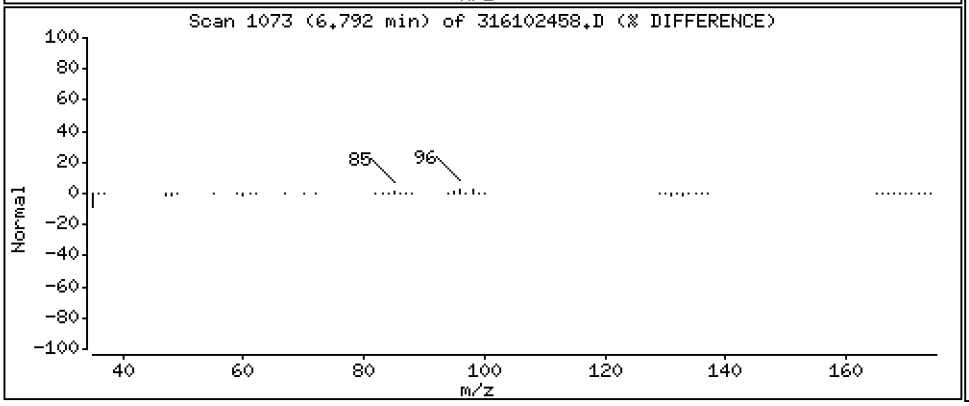












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 98

Date : 25-OCT-2016 01:14

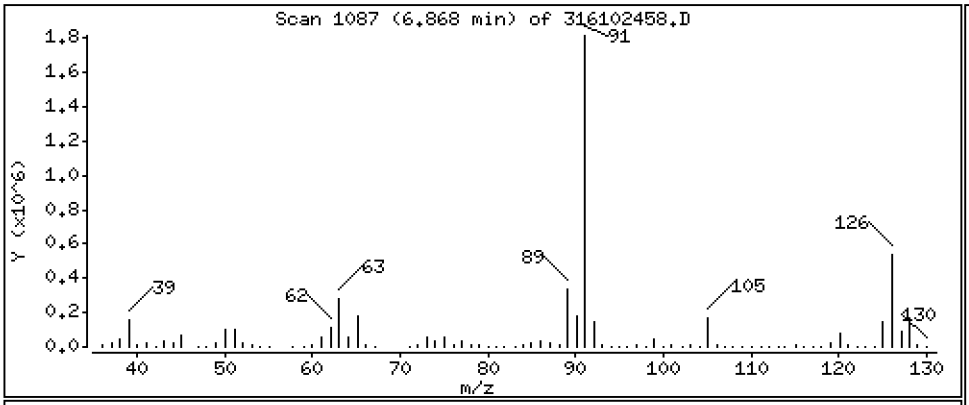
Client ID: Instrument: ms03.i

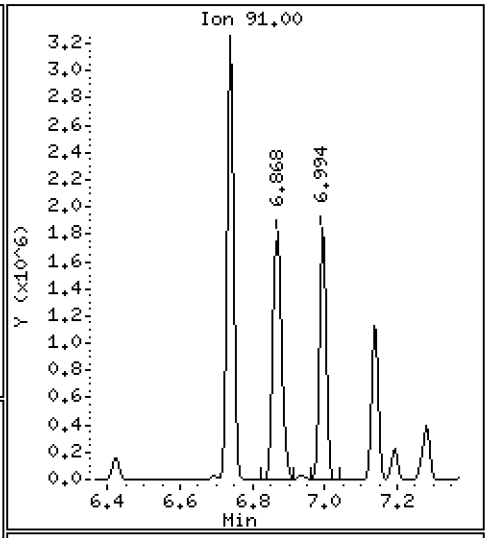
Sample Info: 1238;;1;1;5;;;

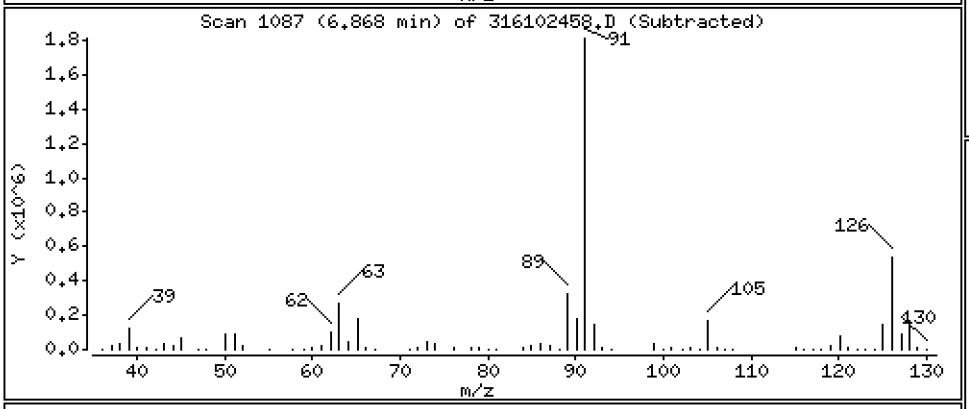
Purge Volume: 5.0 Operator: CJG

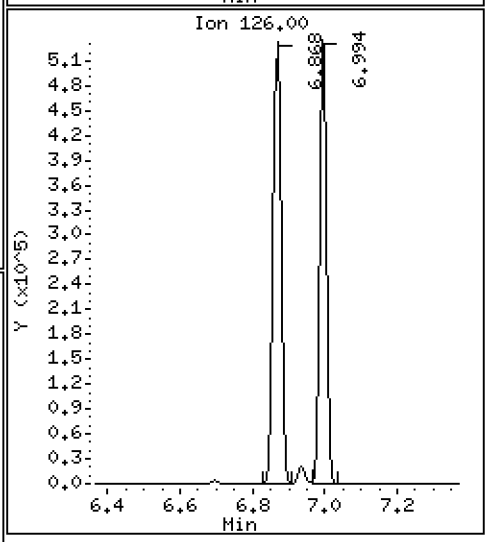
Column phase: DB-VRX Column diameter: 0.25

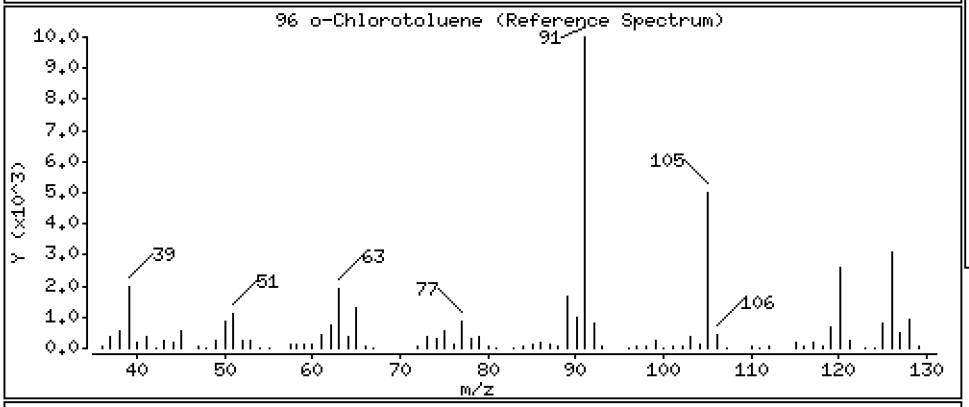
96 o-Chlorotoluene Concentration: 100.384 ug/L

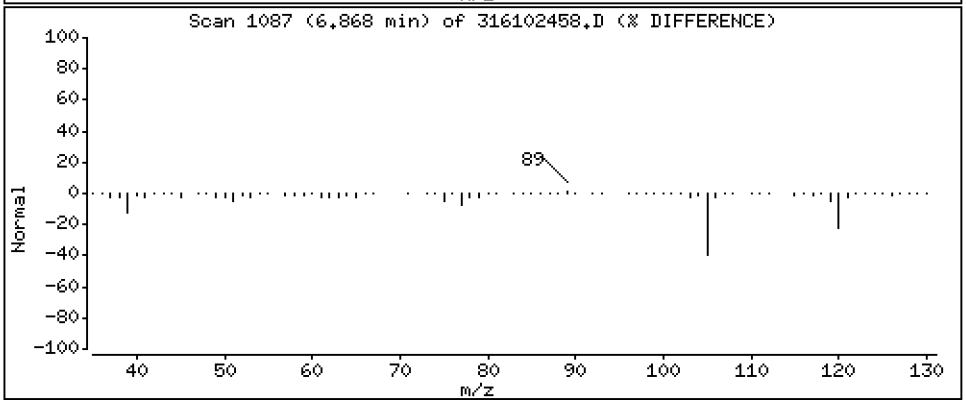












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 99

Date : 25-OCT-2016 01:14

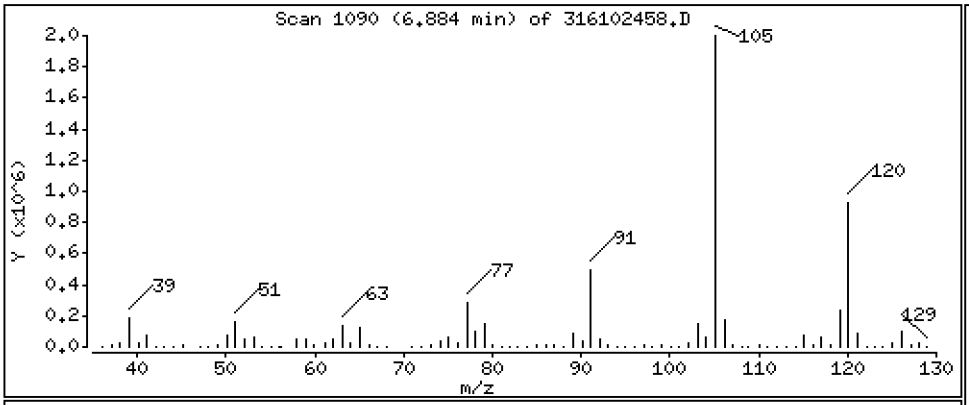
Client ID: Instrument: ms03.i

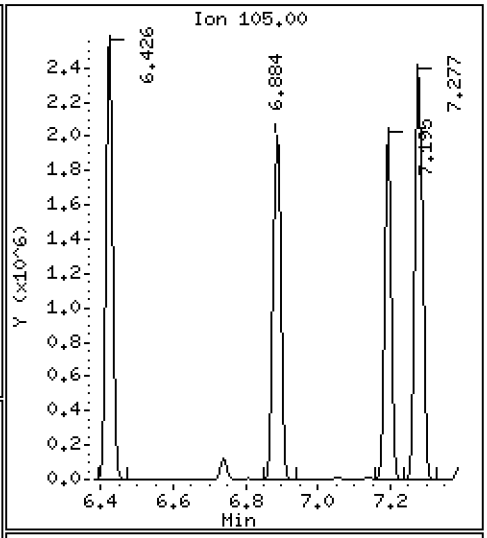
Sample Info: 1238;;1;1;5;;;

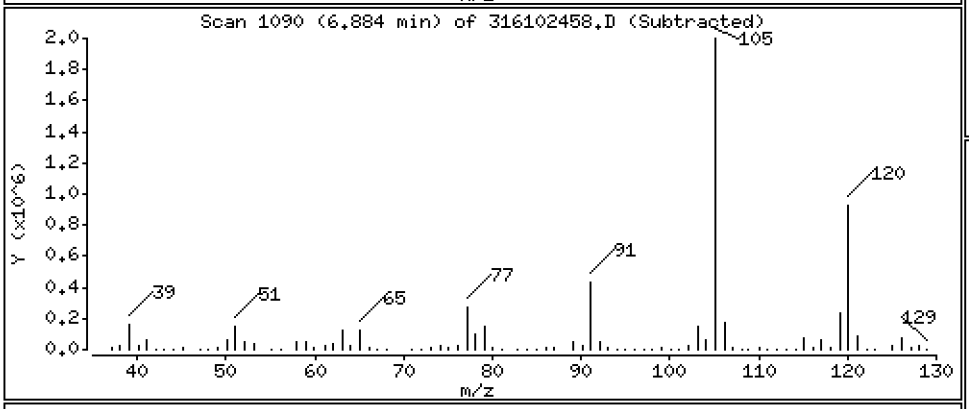
Purge Volume: 5.0 Operator: CJG

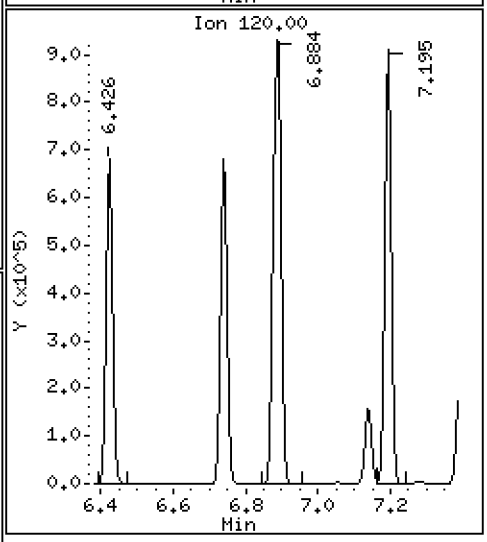
Column phase: DB-VRX Column diameter: 0.25

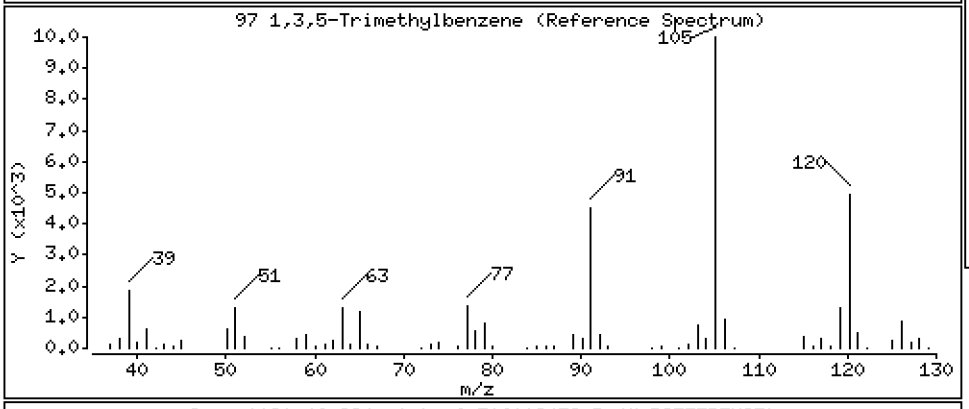
97 1,3,5-Trimethylbenzene Concentration: 100.491 ug/L

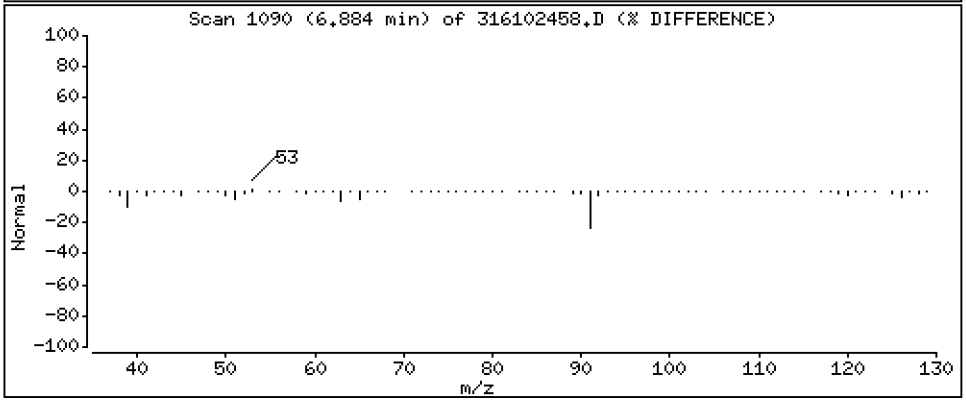












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 100

Date : 25-OCT-2016 01:14

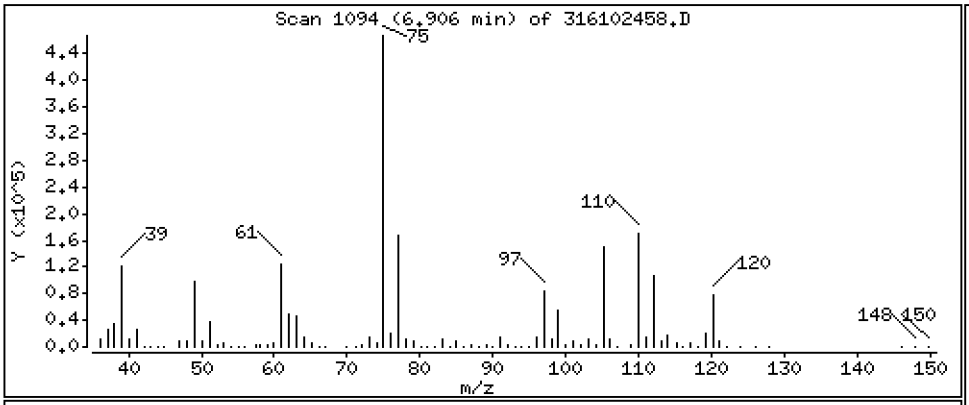
Client ID: Instrument: ms03.i

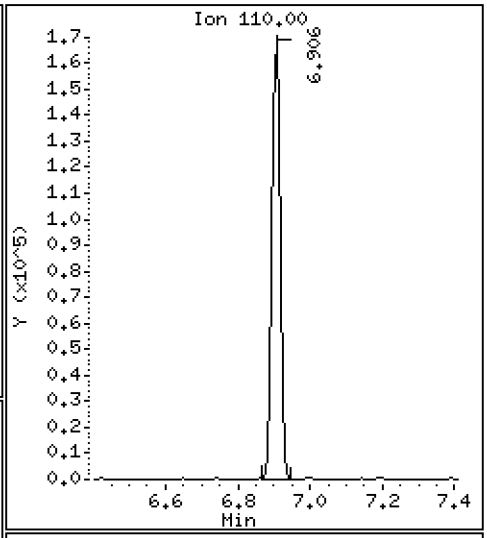
Sample Info: 1238;;1;1;5;;;

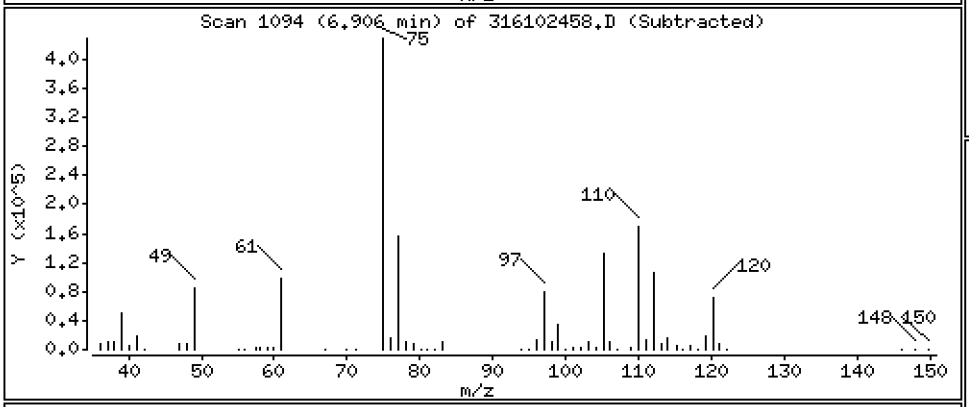
Purge Volume: 5.0 Operator: CJG

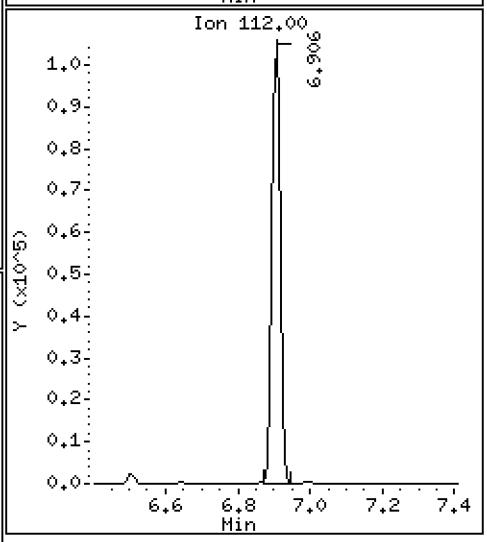
Column phase: DB-VRX Column diameter: 0.25

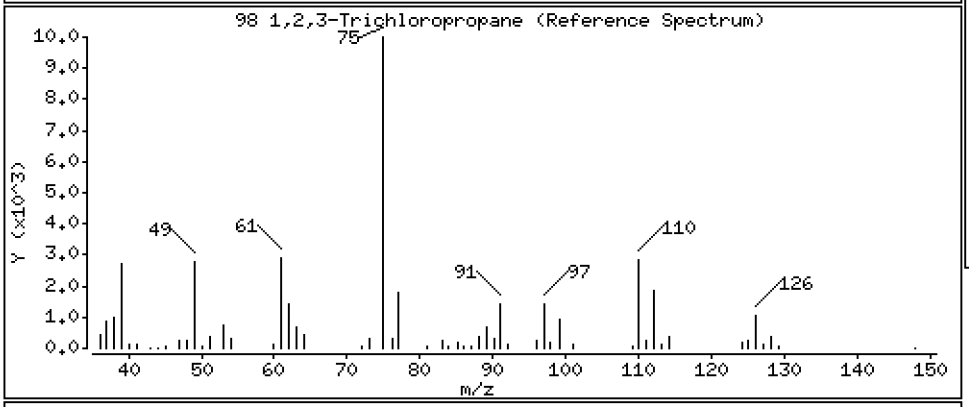
98 1,2,3-Trichloropropane Concentration: 99.0532 ug/L

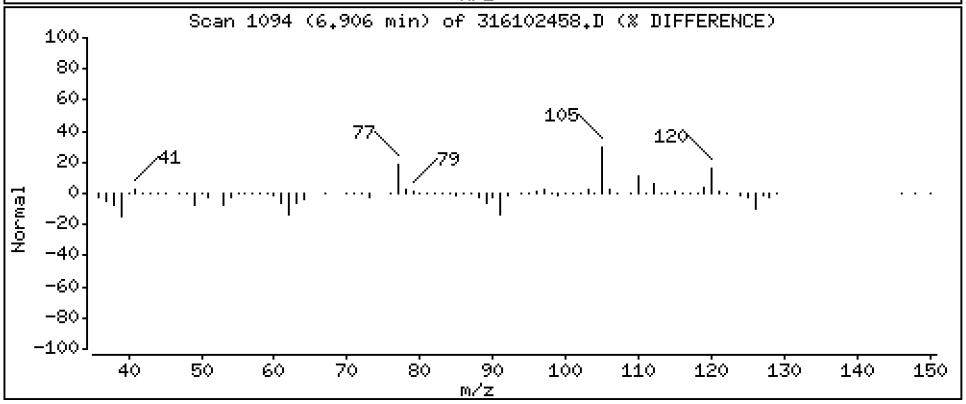












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 101

Date : 25-OCT-2016 01:14

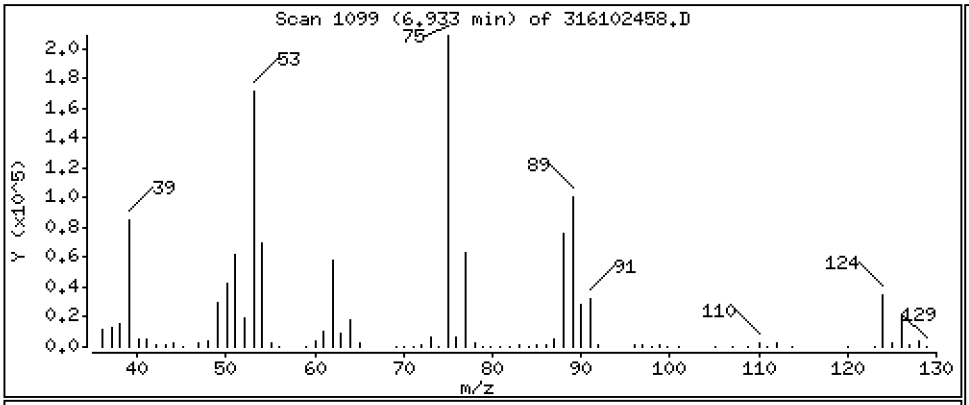
Client ID: Instrument: ms03.i

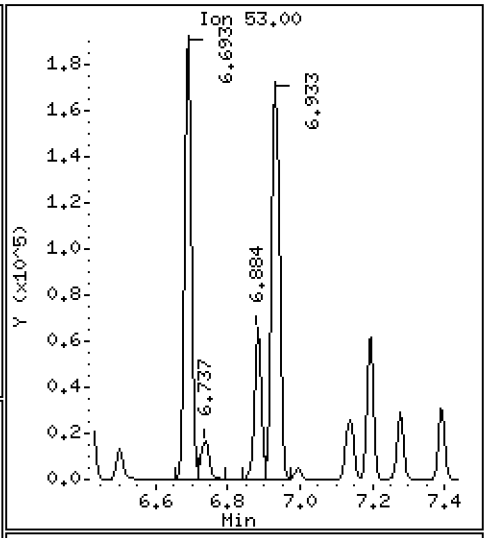
Sample Info: 1238;;1;1;5;;;

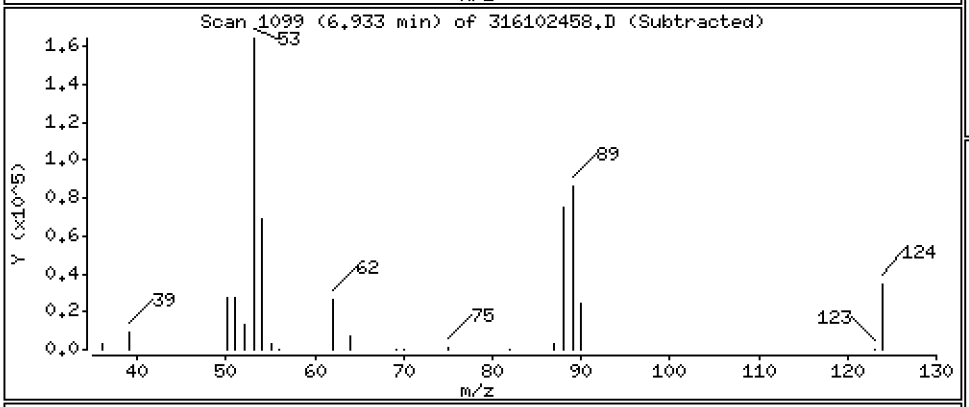
Purge Volume: 5.0 Operator: CJG

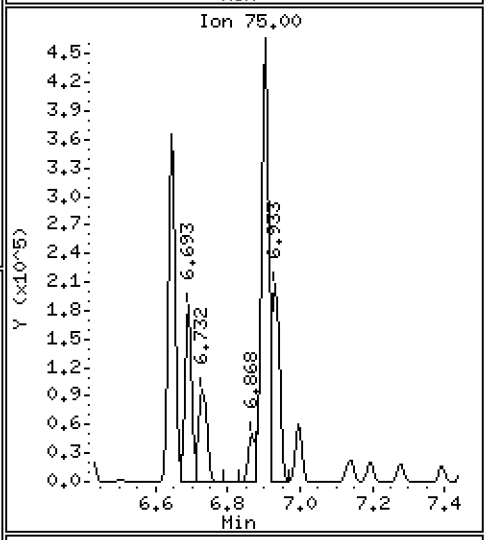
Column phase: DB-VRX Column diameter: 0.25

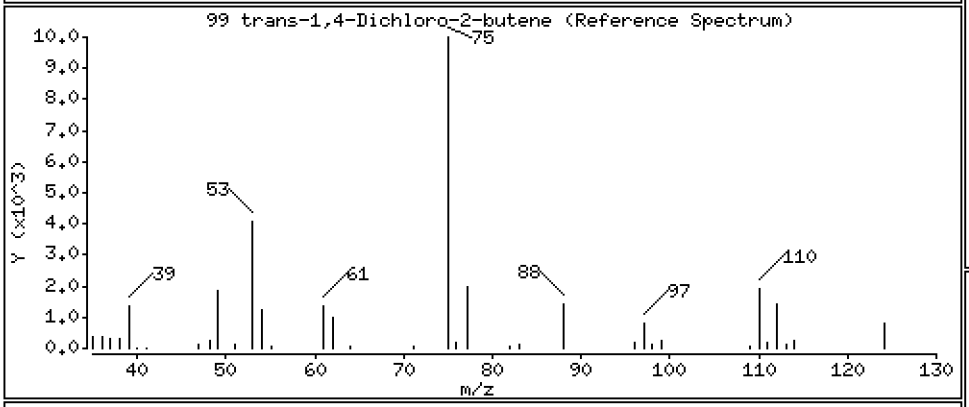
99 trans-1,4-Dichloro-2-butene Concentration: 100.833 ug/L

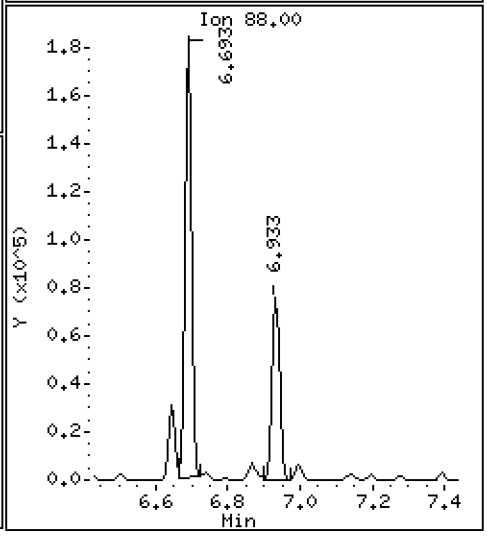


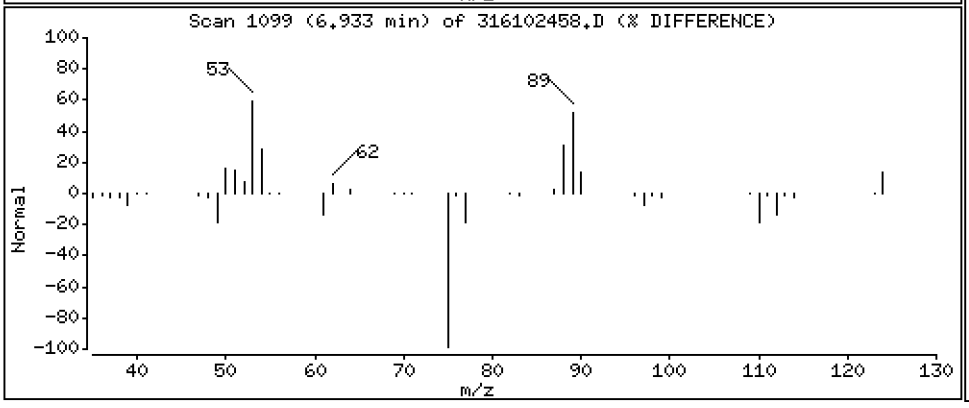












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 102

Date : 25-OCT-2016 01:14

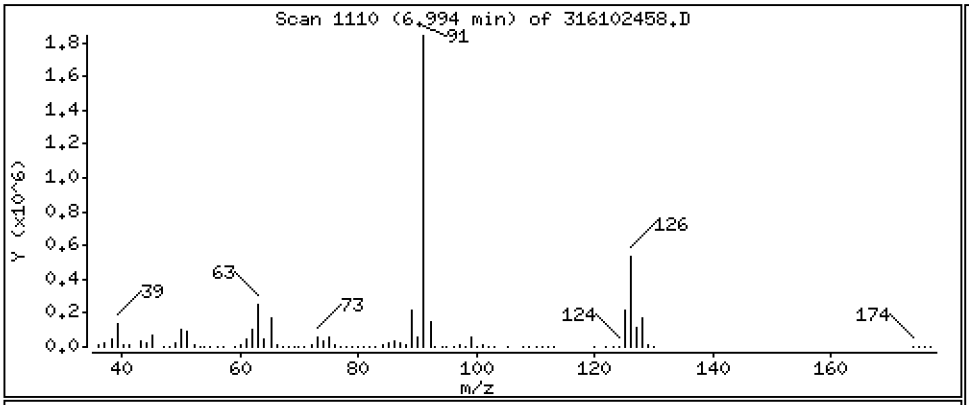
Client ID: Instrument: ms03.i

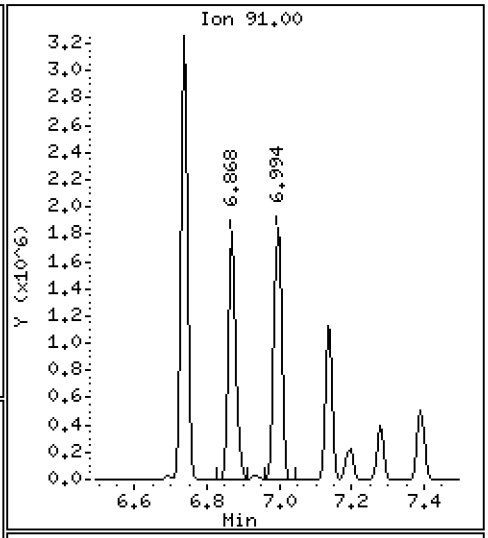
Sample Info: 1238;;1;1;5;;;

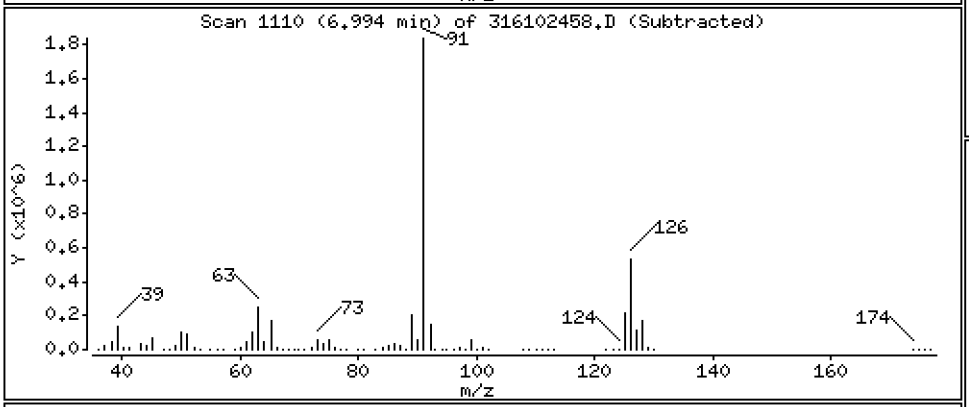
Purge Volume: 5.0 Operator: CJG

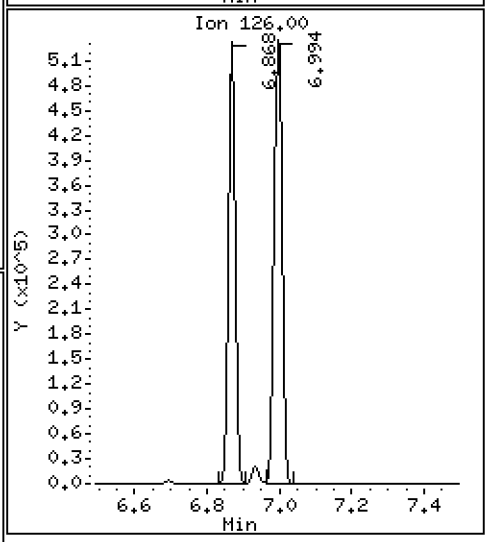
Column phase: DB-VRX Column diameter: 0.25

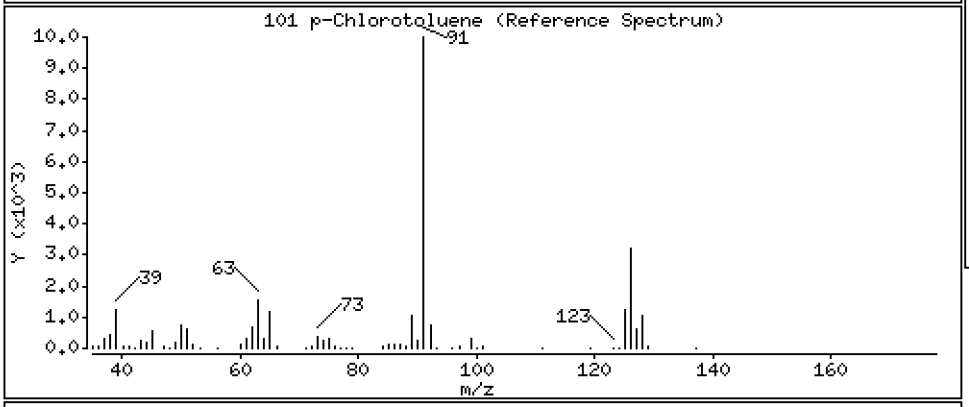
101 p-Chlorotoluene Concentration: 100.674 ug/L

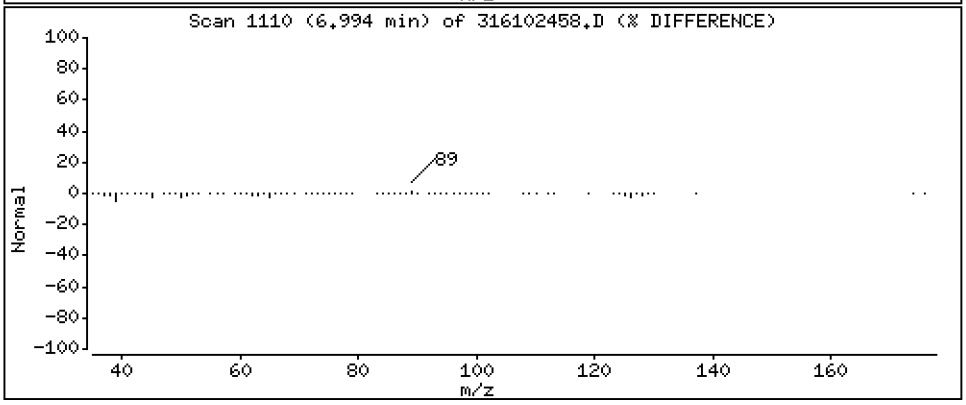












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 103

Date : 25-OCT-2016 01:14

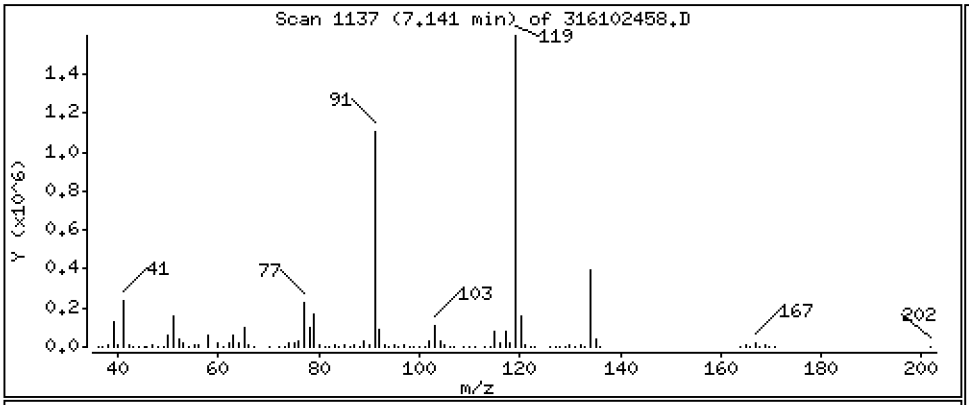
Client ID: Instrument: ms03.i

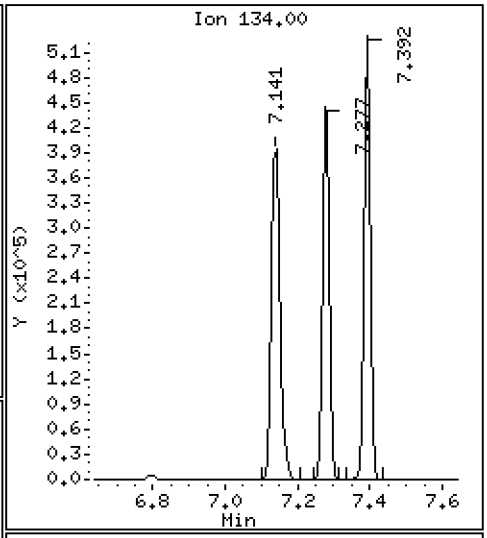
Sample Info: 1238;;1;1;5;;;

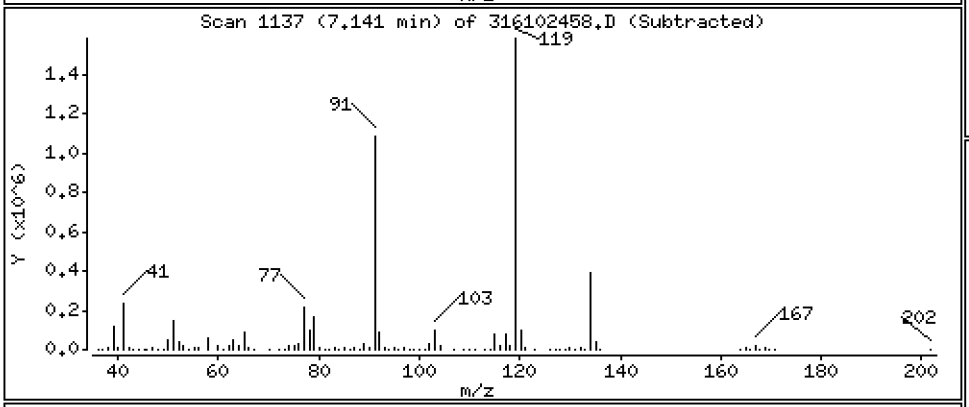
Purge Volume: 5.0 Operator: CJG

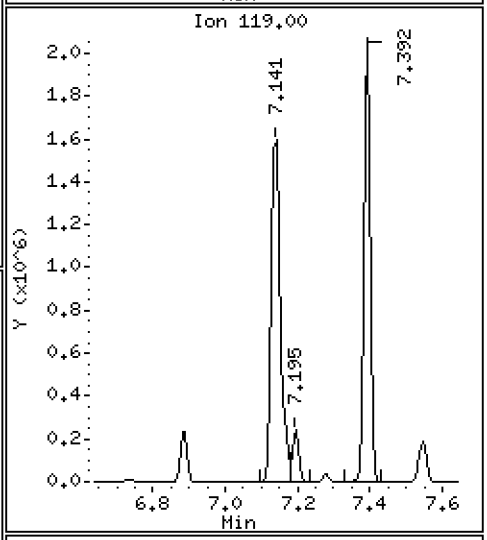
Column phase: DB-VRX Column diameter: 0.25

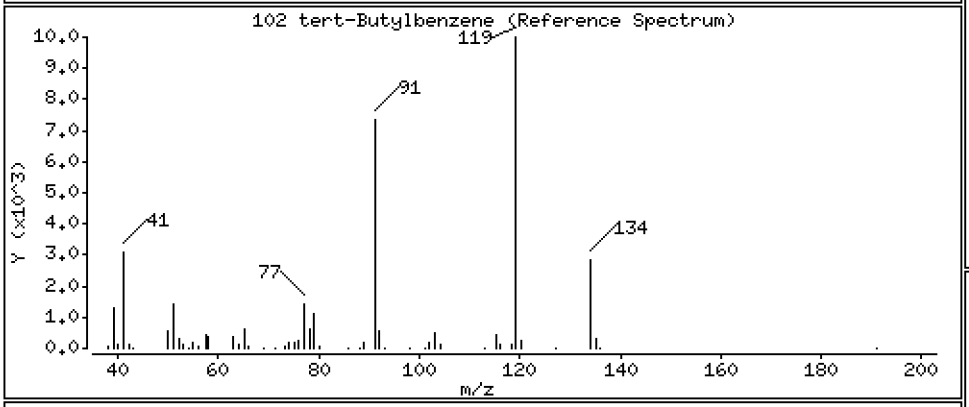
102 tert-Butylbenzene Concentration: 100.552 ug/L

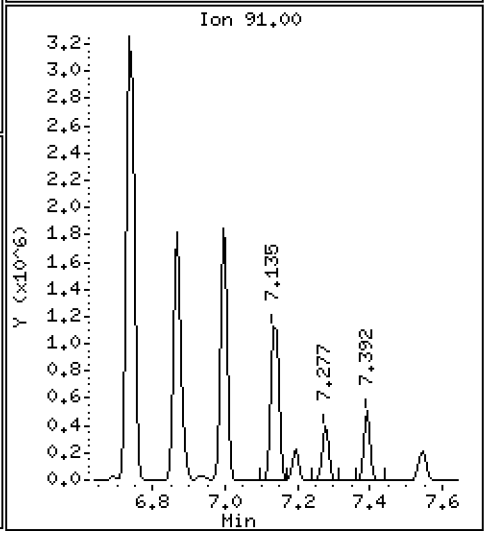


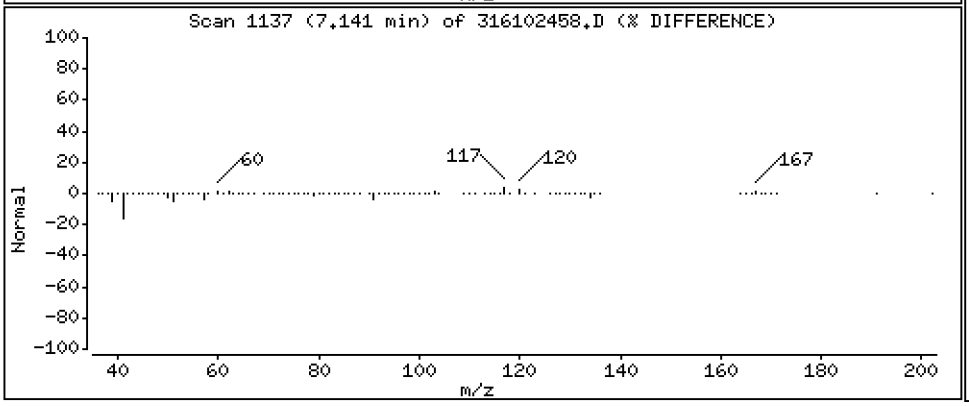












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 104

Date : 25-OCT-2016 01:14

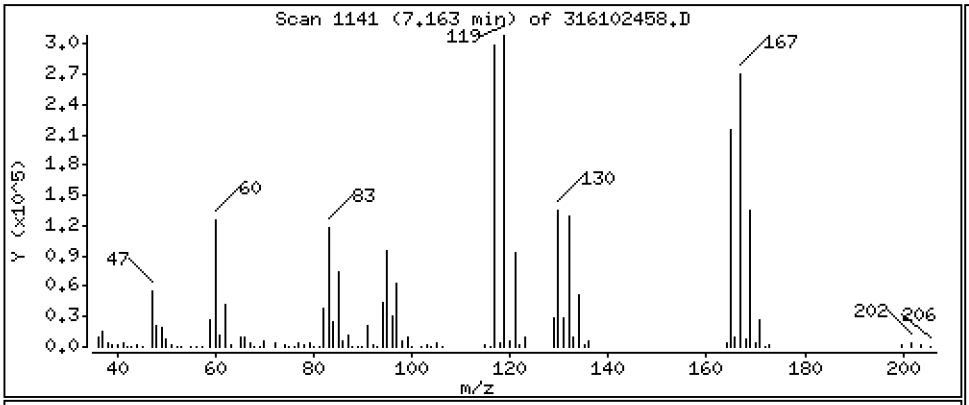
Client ID: Instrument: ms03.i

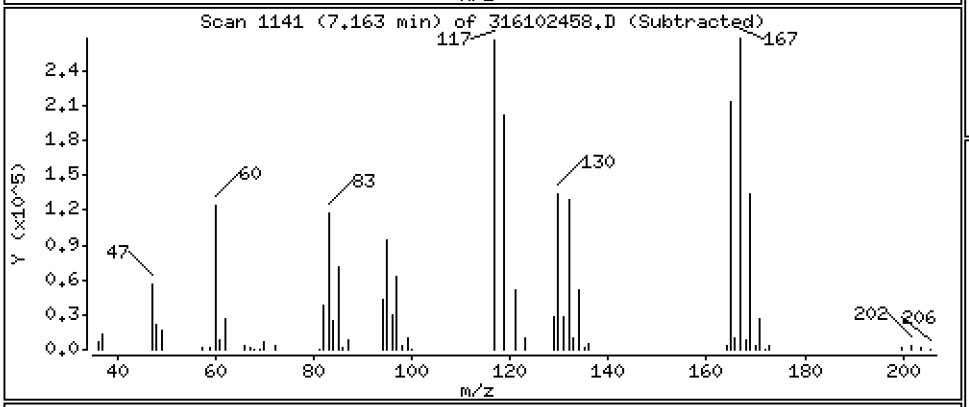
Sample Info: 1238;;1;1;5;;;

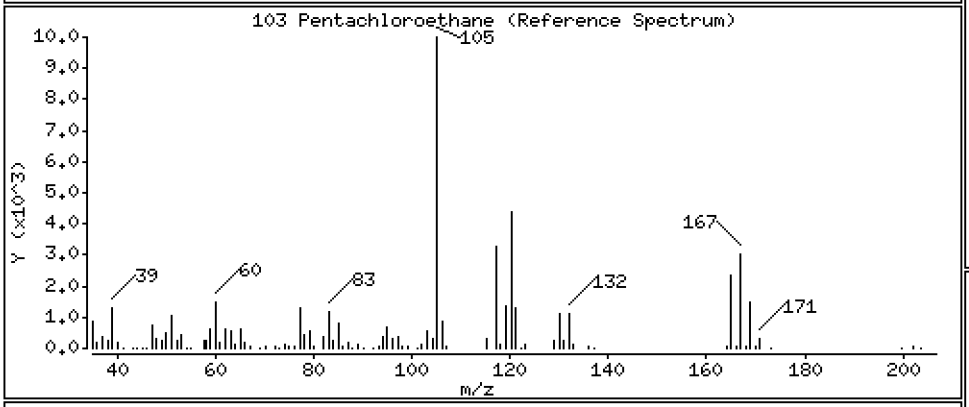
Purge Volume: 5.0 Operator: CJG

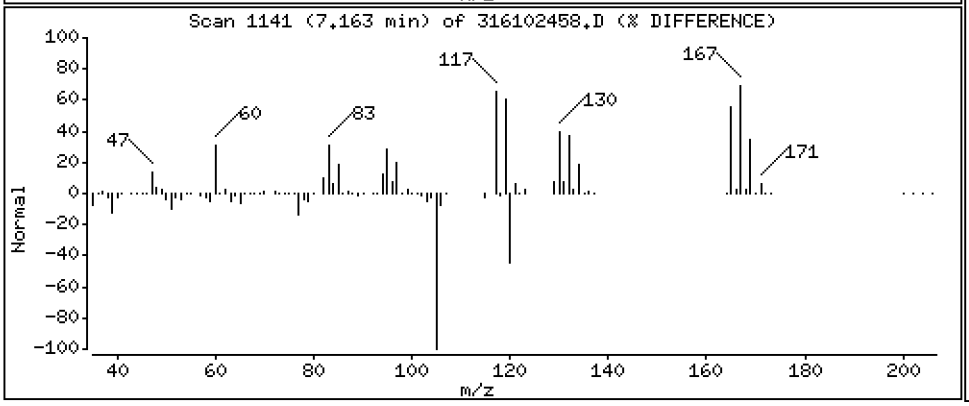
Column phase: DB-VRX Column diameter: 0.25

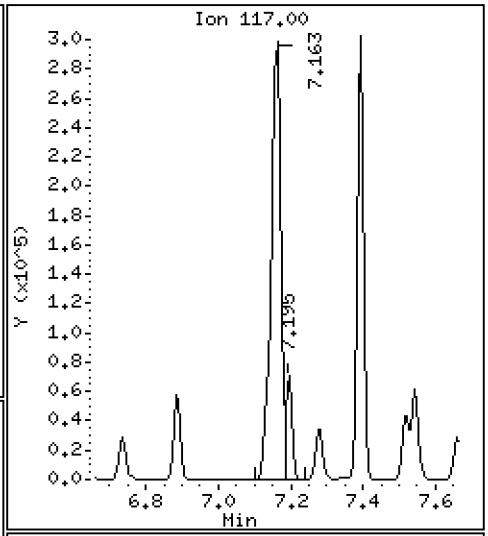
103 Pentachloroethane Concentration: 101.119 ug/L

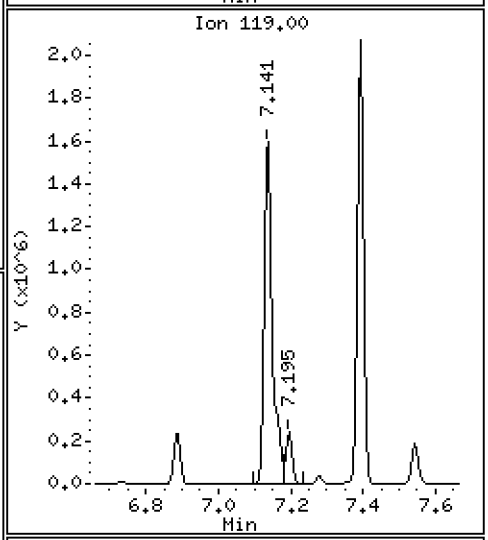


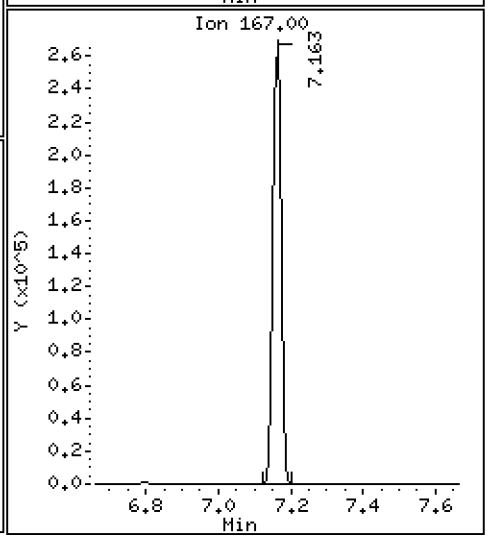












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 105

Date : 25-OCT-2016 01:14

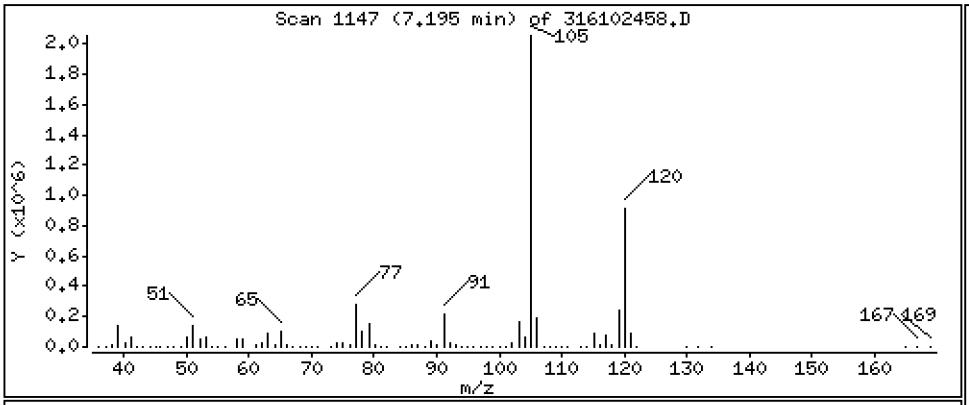
Client ID: Instrument: ms03.i

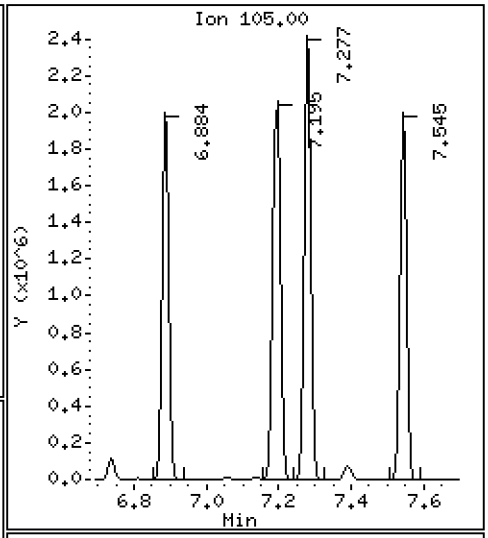
Sample Info: 1238;;1;1;5;;;

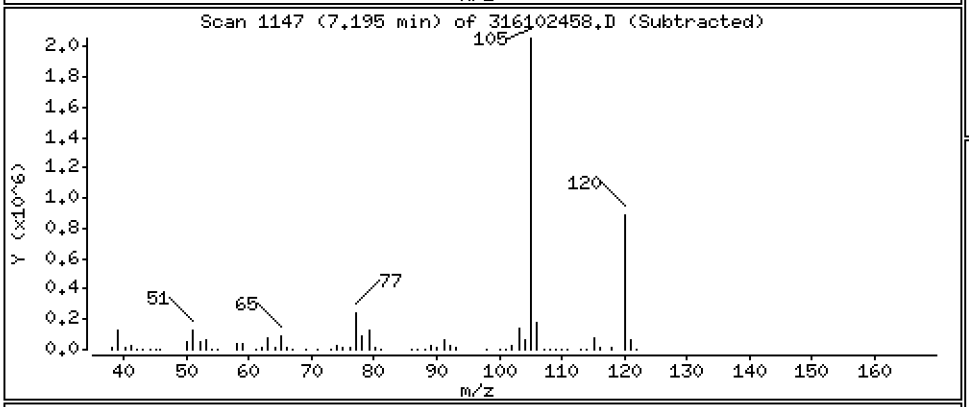
Purge Volume: 5.0 Operator: CJG

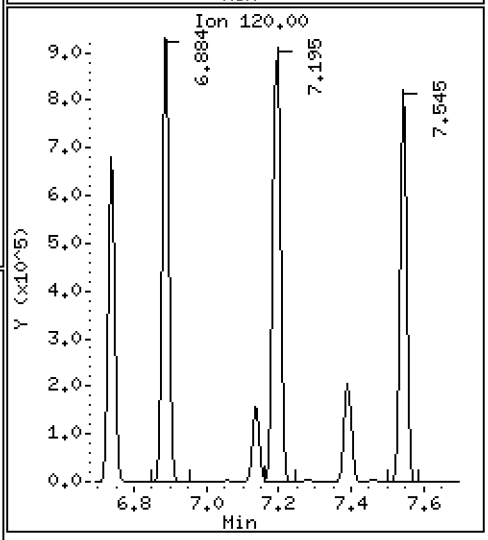
Column phase: DB-VRX Column diameter: 0.25

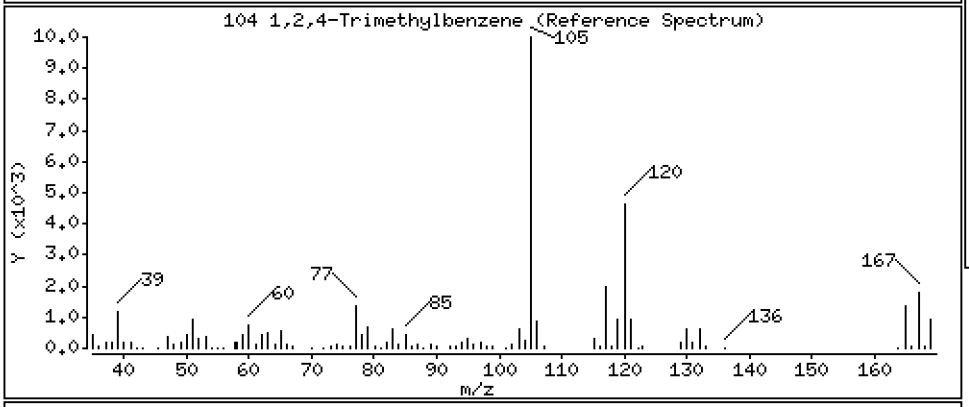
104 1,2,4-Trimethylbenzene Concentration: 100.665 ug/L

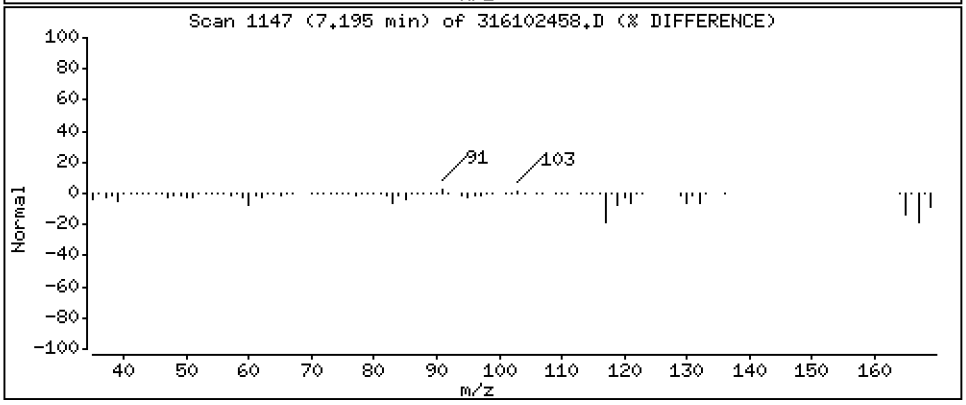












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 106

Date : 25-OCT-2016 01:14

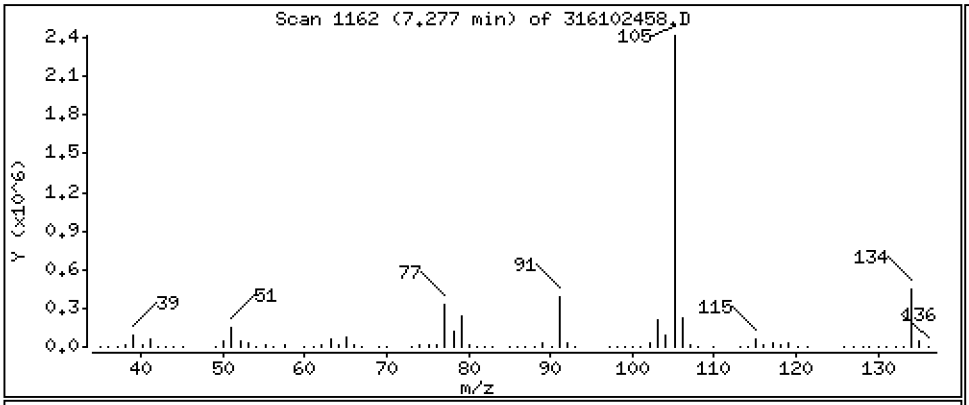
Client ID: Instrument: ms03.i

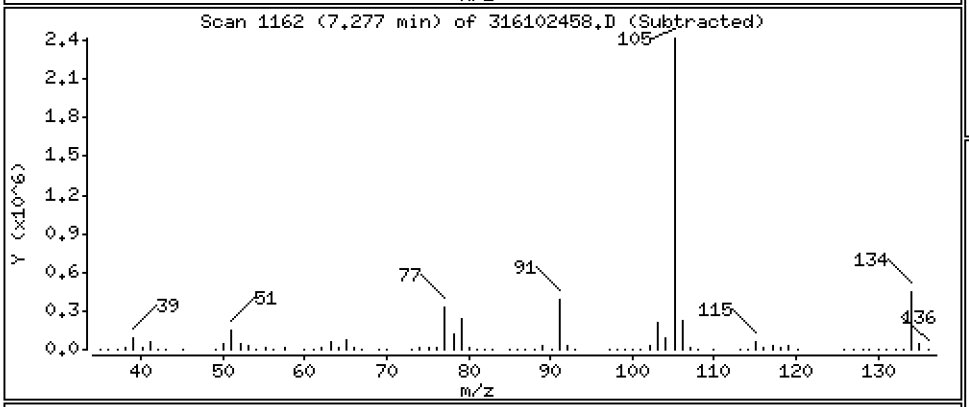
Sample Info: 1238;;1;1;5;;;

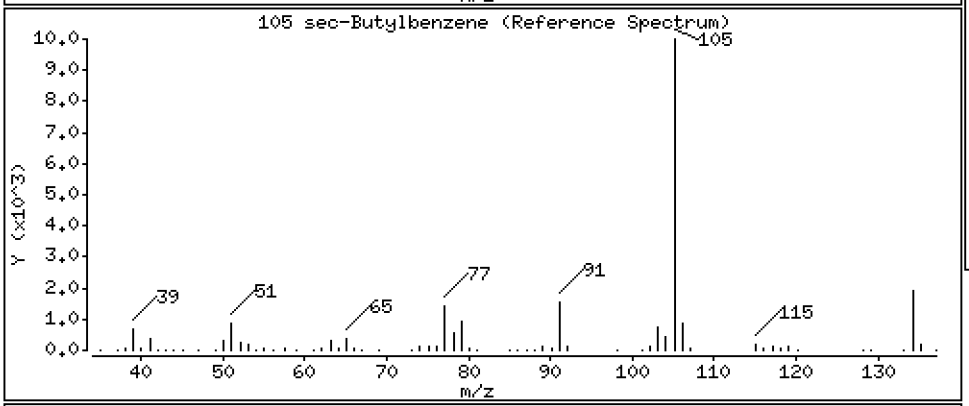
Purge Volume: 5.0 Operator: CJG

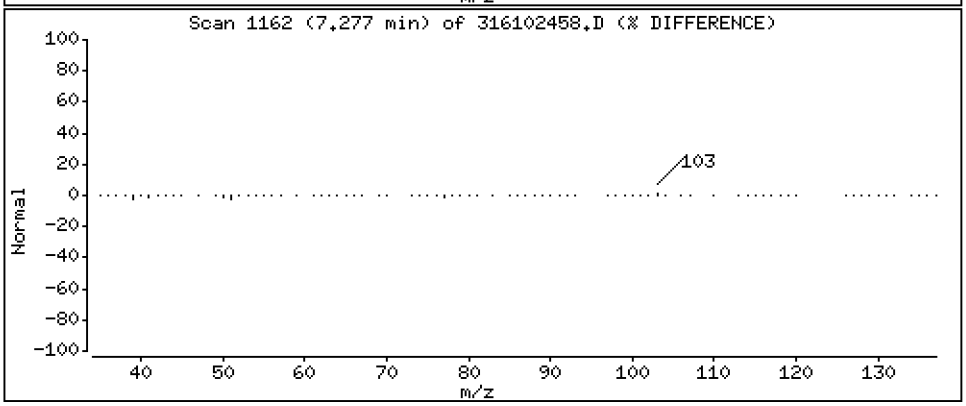
Column phase: DB-VRX Column diameter: 0.25

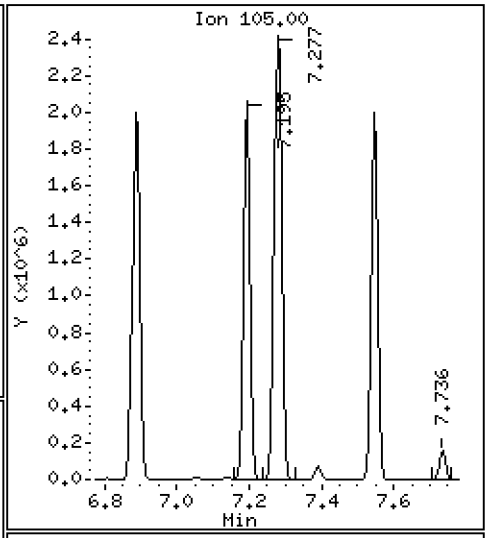
105 sec-Butylbenzene Concentration: 100.901 ug/L

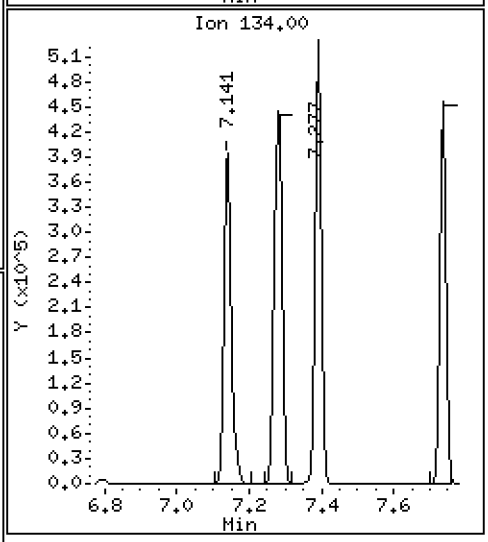












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 107

Date : 25-OCT-2016 01:14

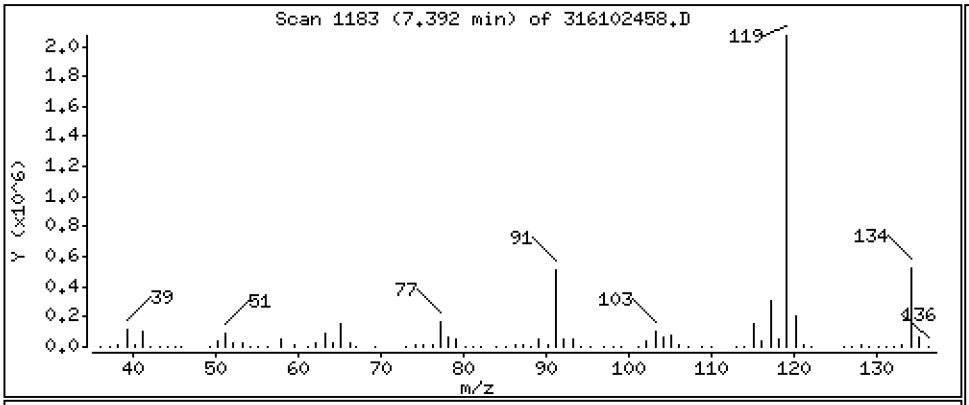
Client ID: Instrument: ms03.i

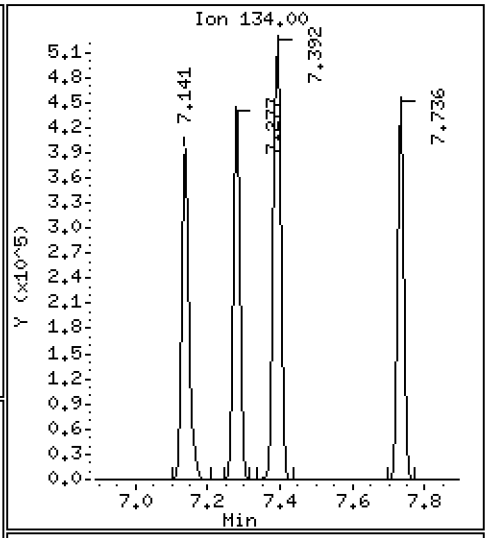
Sample Info: 1238;;1;1;5;;;

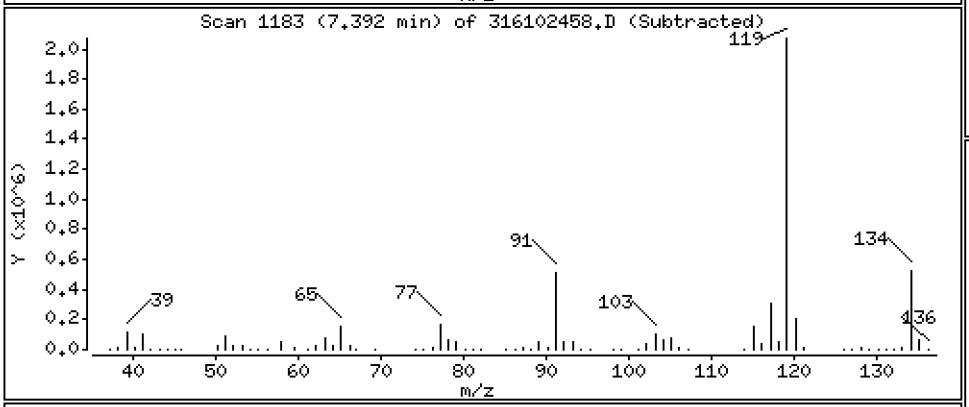
Purge Volume: 5.0 Operator: CJG

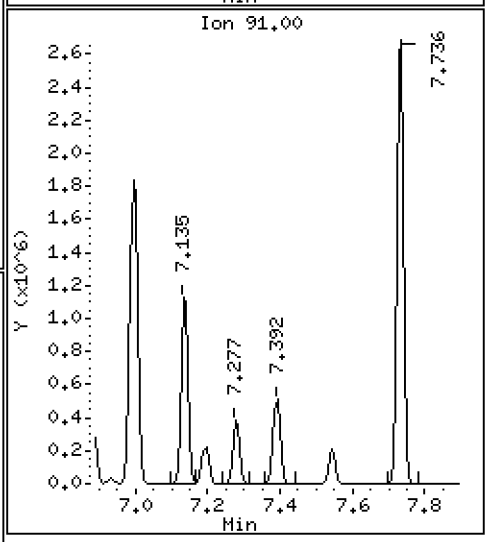
Column phase: DB-VRX Column diameter: 0.25

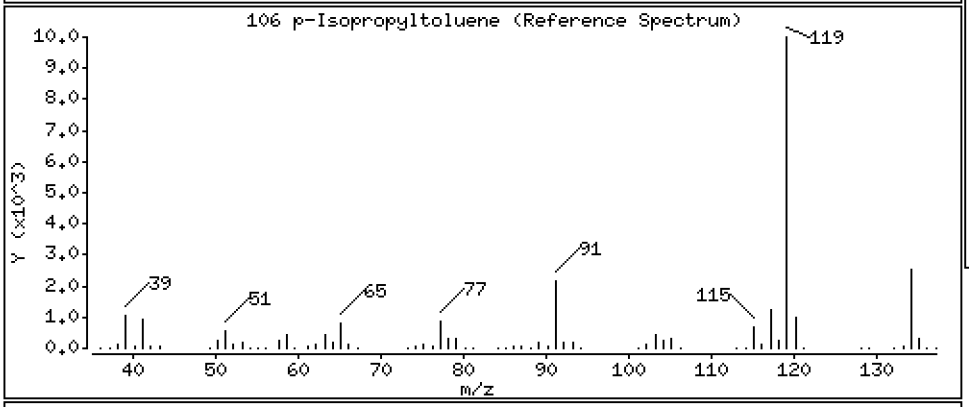
106 p-Isopropyltoluene Concentration: 101.027 ug/L

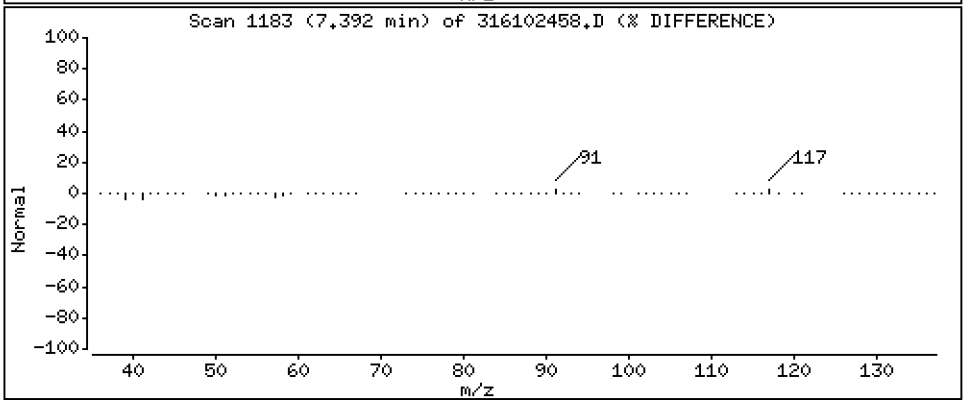












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 108

Date : 25-OCT-2016 01:14

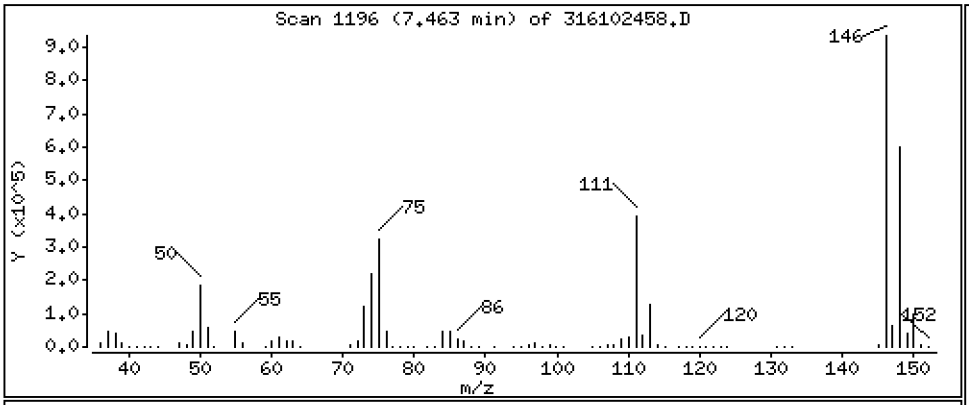
Client ID: Instrument: ms03.i

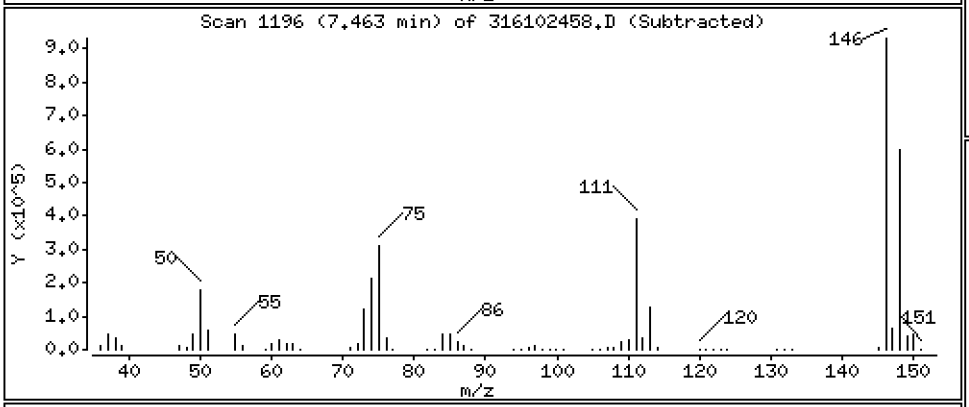
Sample Info: 1238;;1;1;5;;;

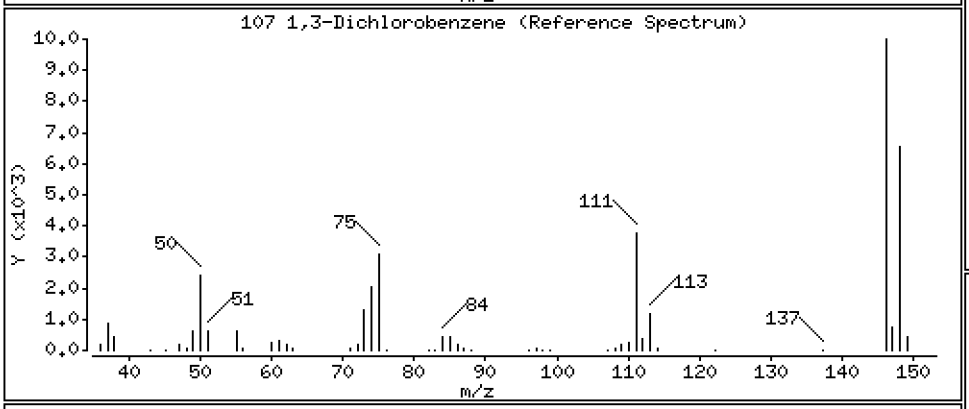
Purge Volume: 5.0 Operator: CJG

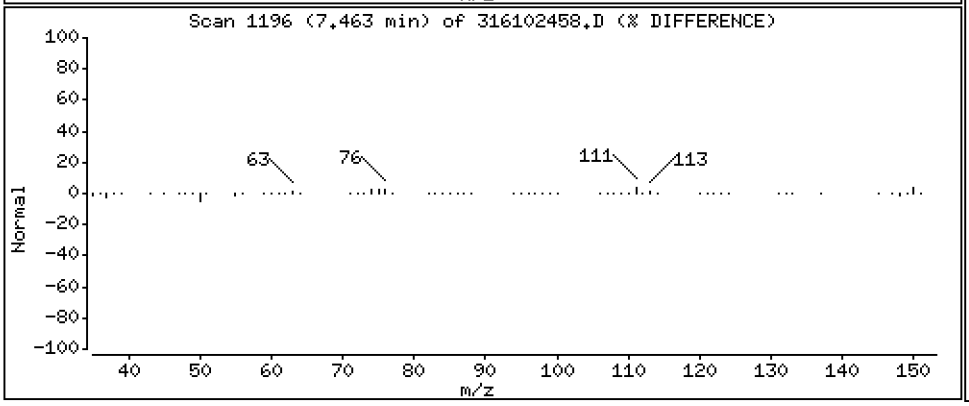
Column phase: DB-VRX Column diameter: 0.25

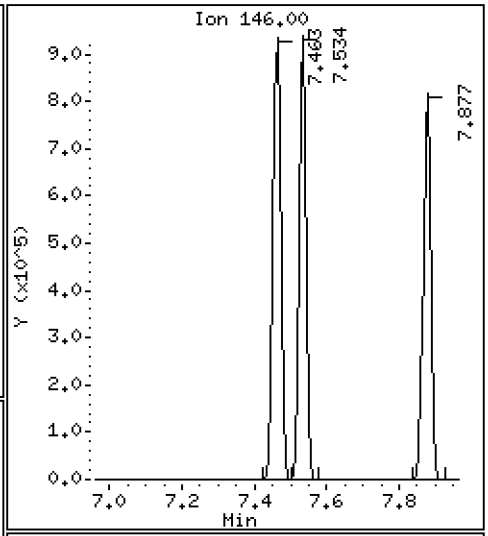
107 1,3-Dichlorobenzene Concentration: 100.742 ug/L

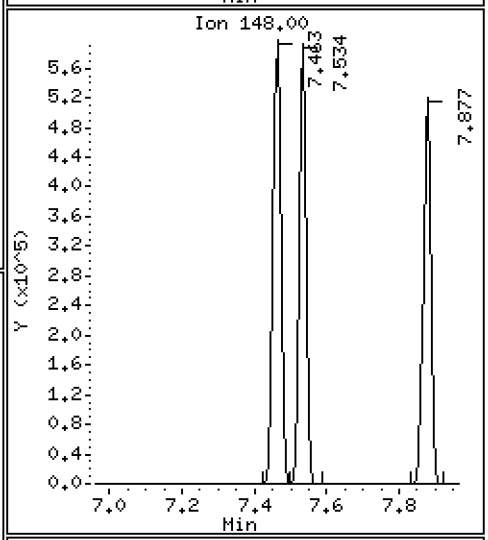


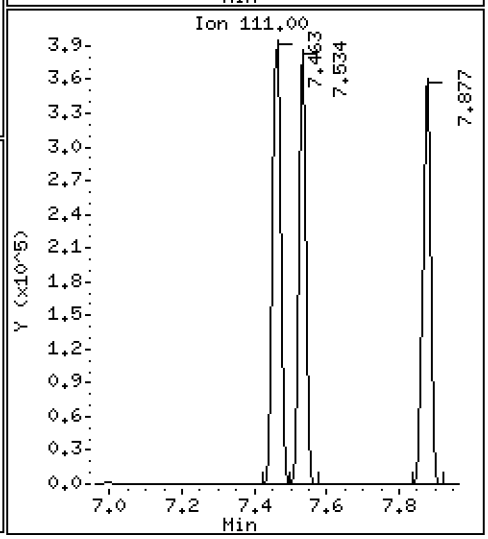












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 109

Date : 25-OCT-2016 01:14

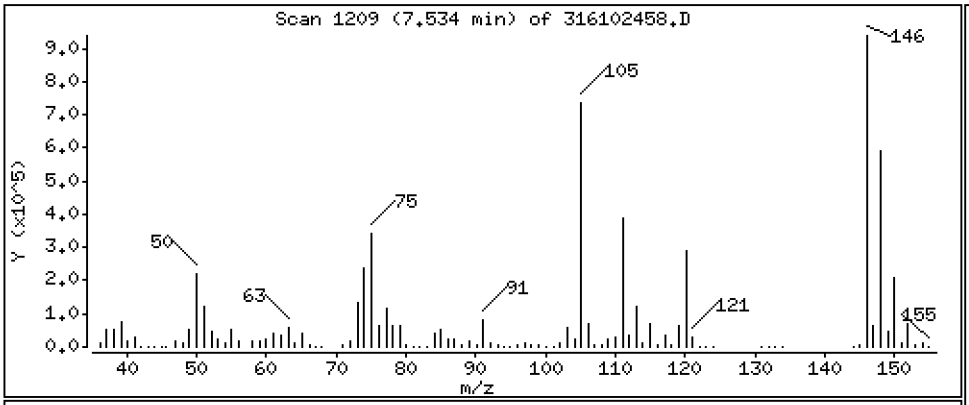
Client ID: Instrument: ms03.i

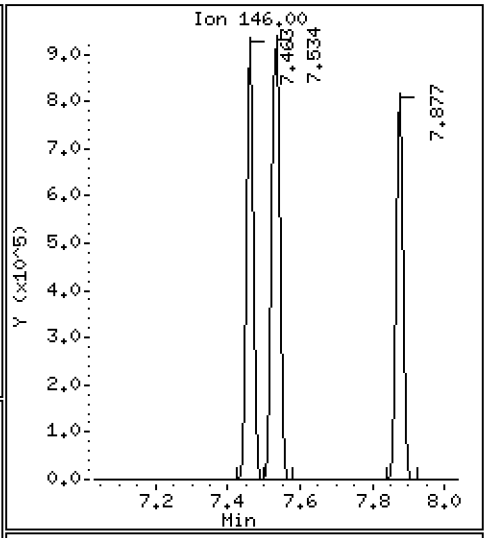
Sample Info: 1238;;1;1;5;;;

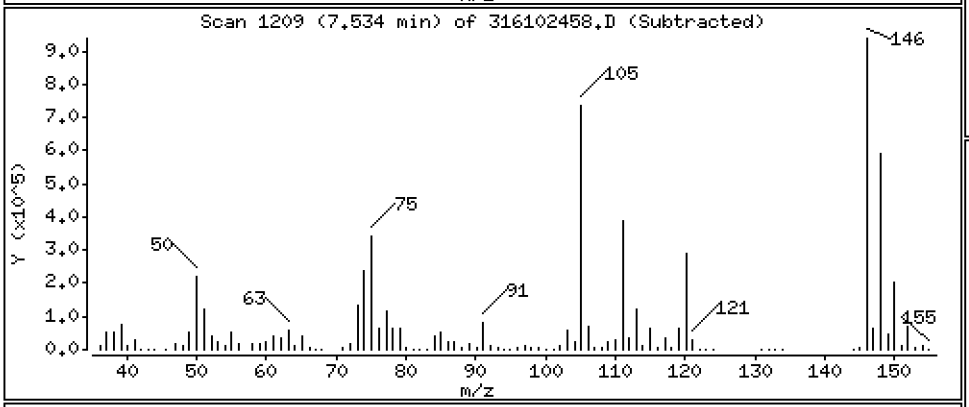
Purge Volume: 5.0 Operator: CJG

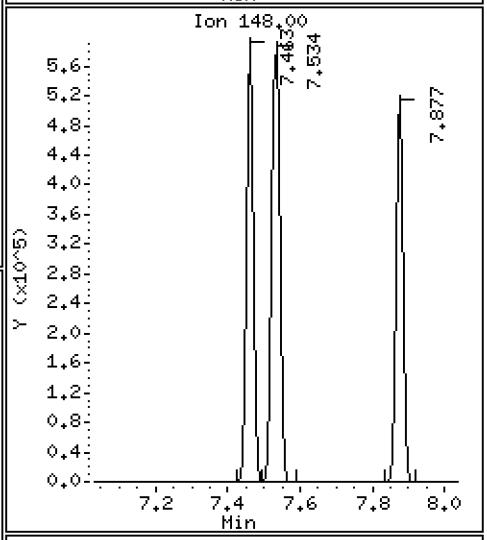
Column phase: DB-VRX Column diameter: 0.25

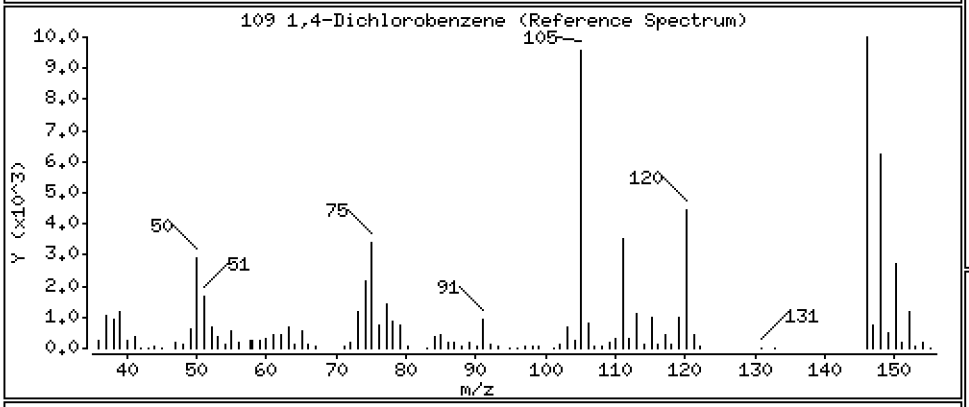
109 1,4-Dichlorobenzene Concentration: 100.428 ug/L

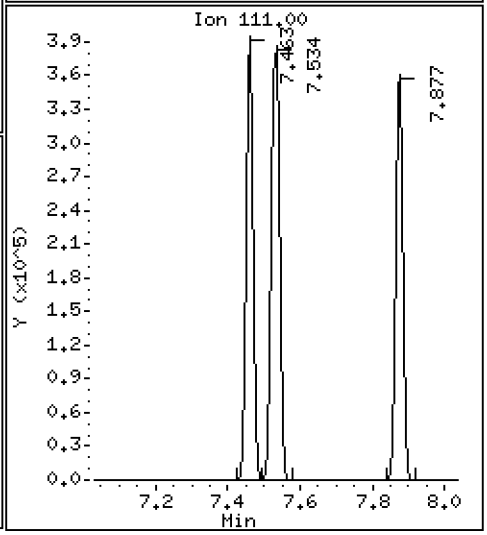


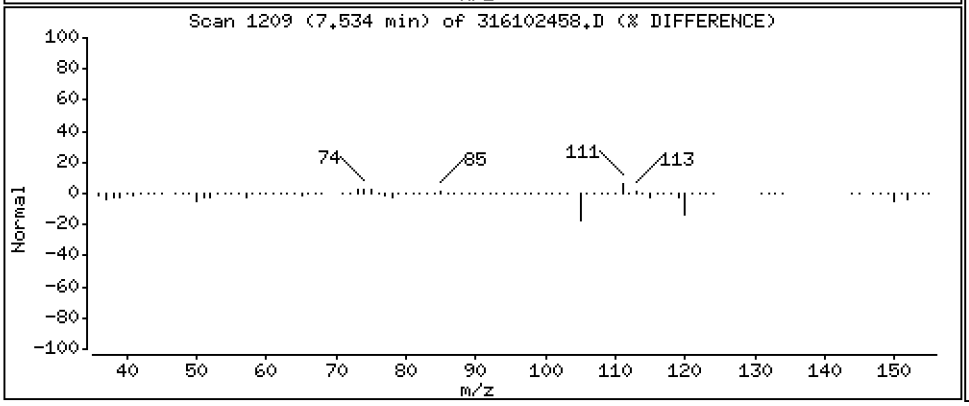












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 110

Date : 25-OCT-2016 01:14

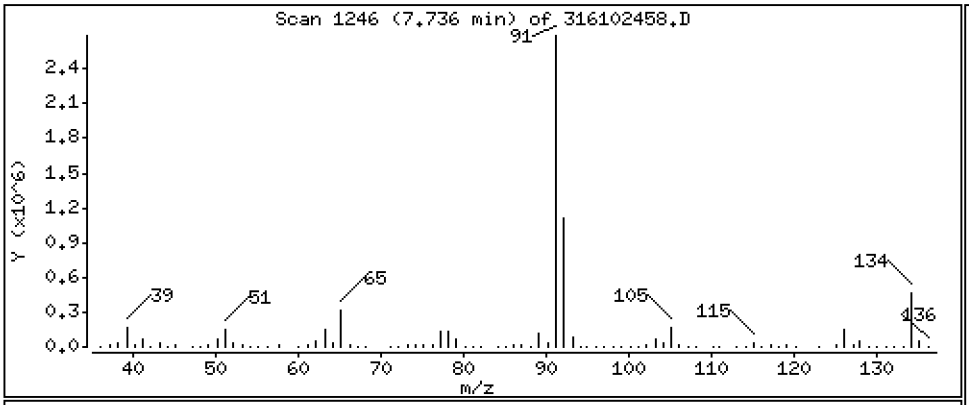
Client ID: Instrument: ms03.i

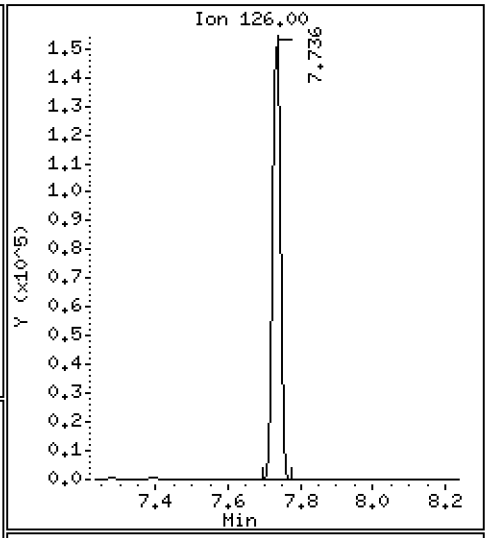
Sample Info: 1238;;1;1;5;;;

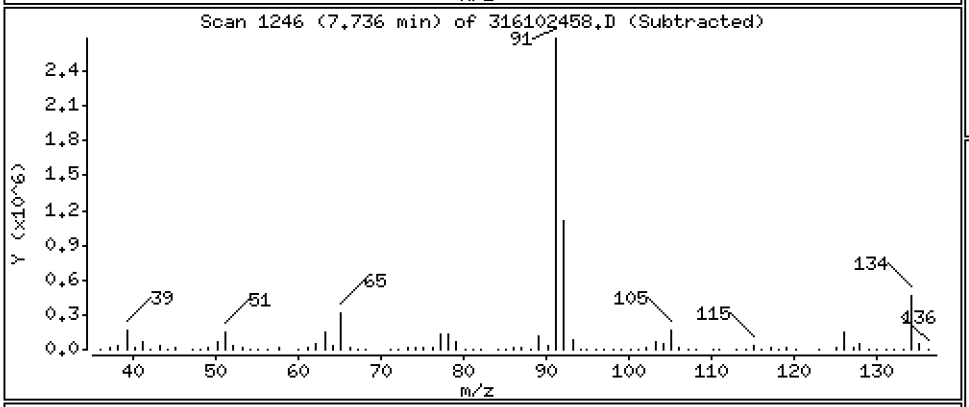
Purge Volume: 5.0 Operator: CJG

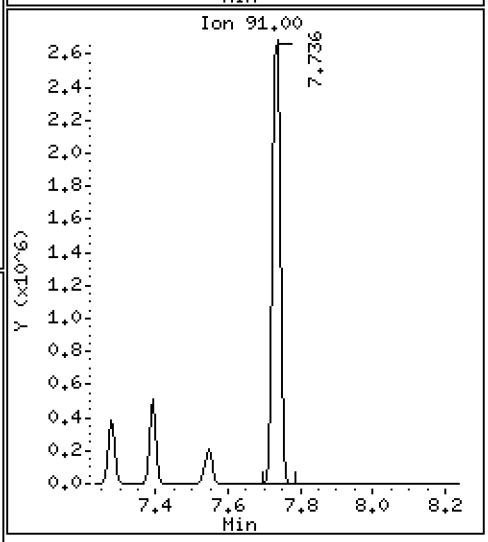
Column phase: DB-VRX Column diameter: 0.25

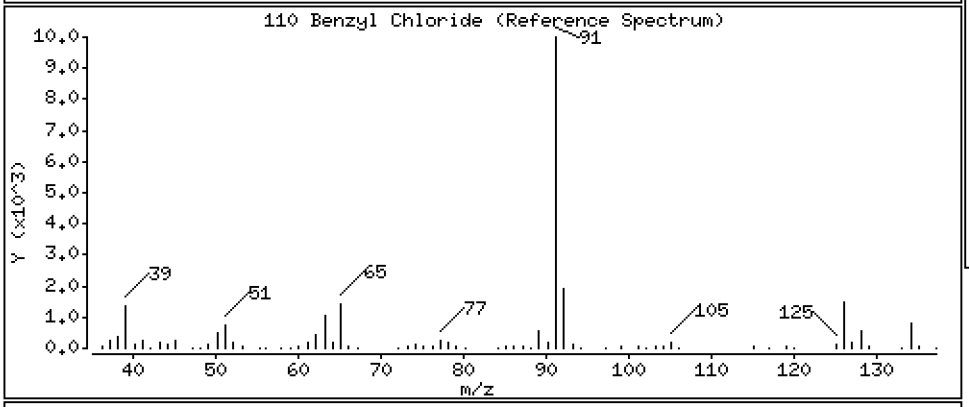
110 Benzyl Chloride Concentration: 102.375 ug/L

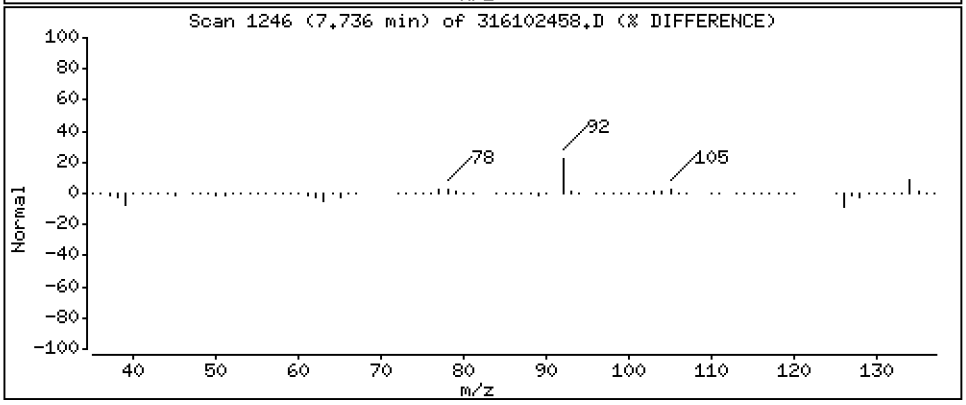












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 111

Date : 25-OCT-2016 01:14

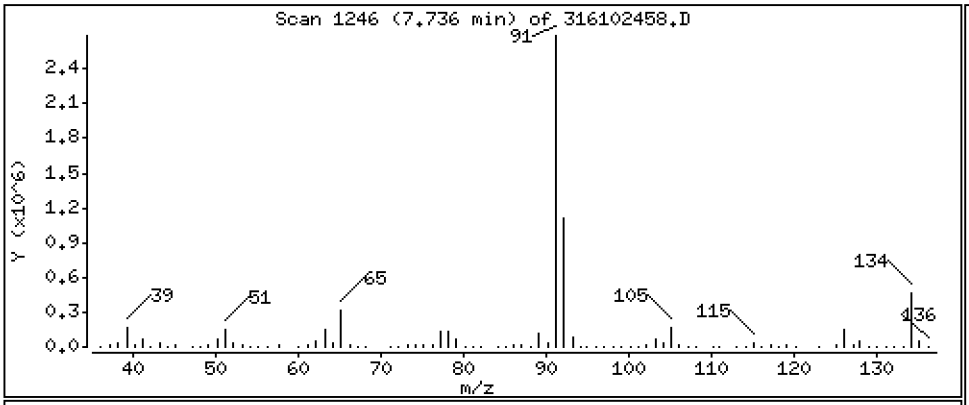
Client ID: Instrument: ms03.i

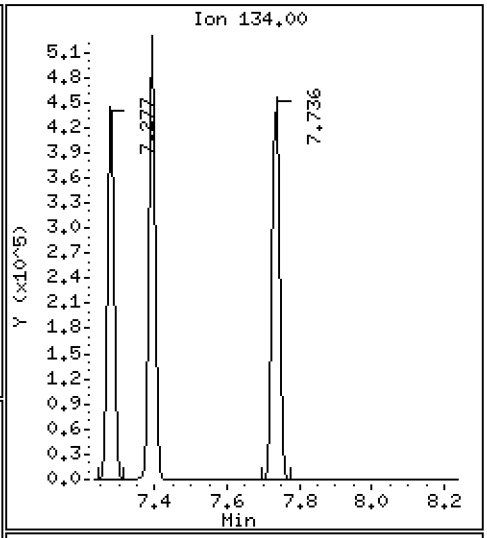
Sample Info: 1238;;1;1;5;;;

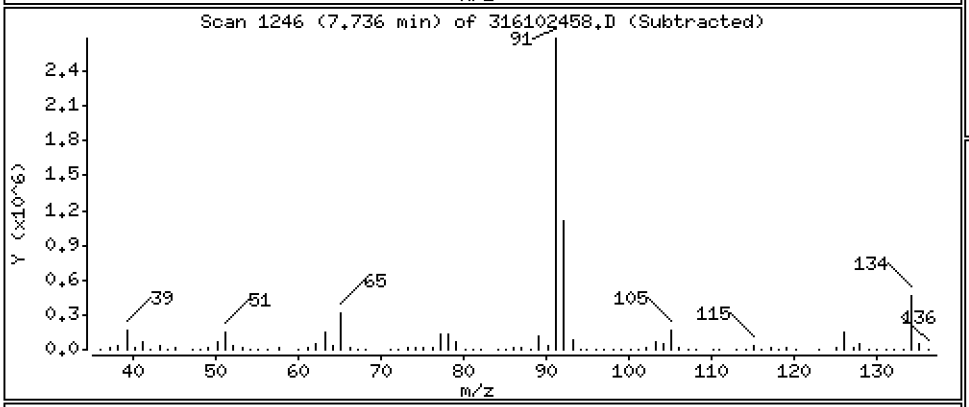
Purge Volume: 5.0 Operator: CJG

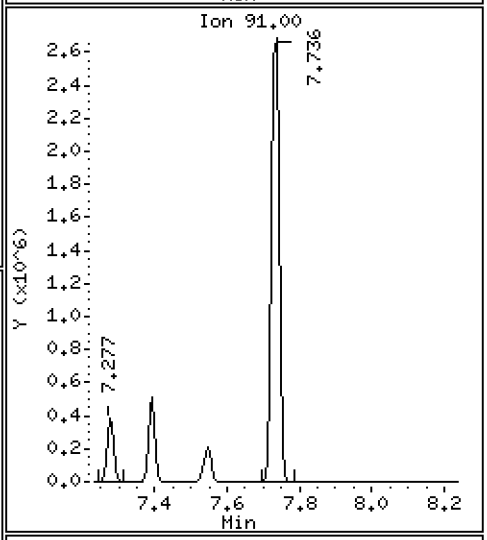
Column phase: DB-VRX Column diameter: 0.25

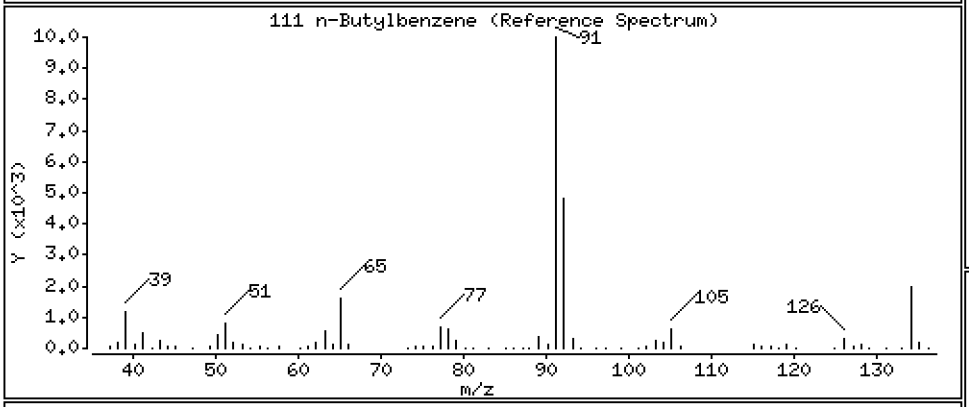
111 n-Butylbenzene Concentration: 101.487 ug/L

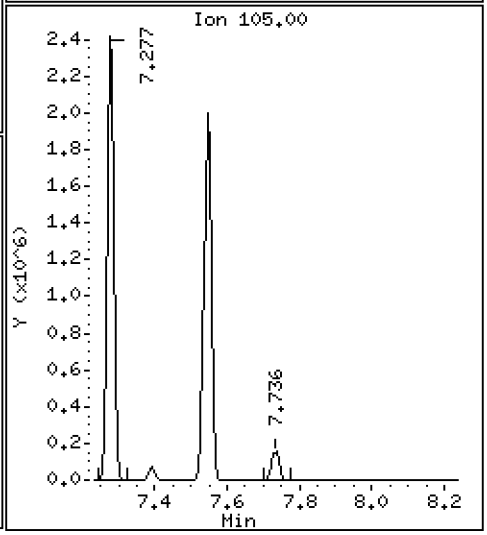


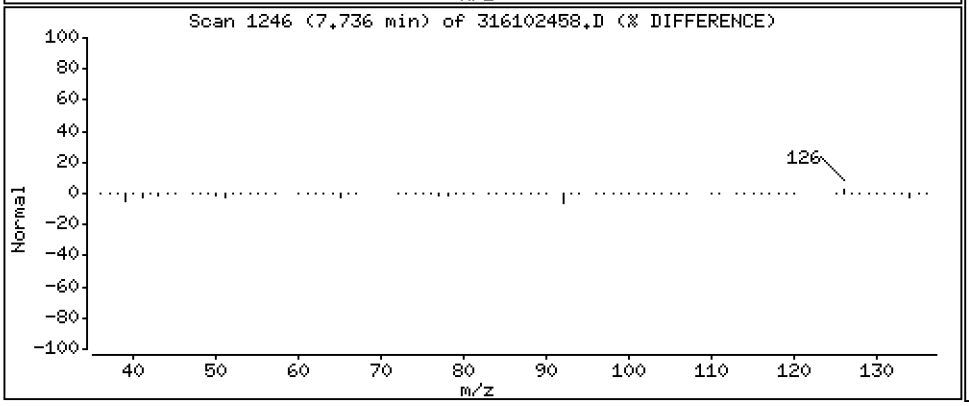












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 112

Date : 25-OCT-2016 01:14

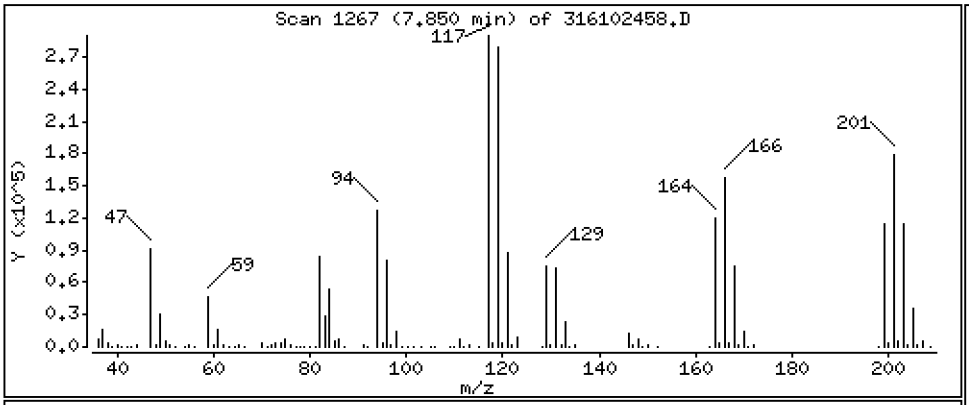
Client ID: Instrument: ms03.i

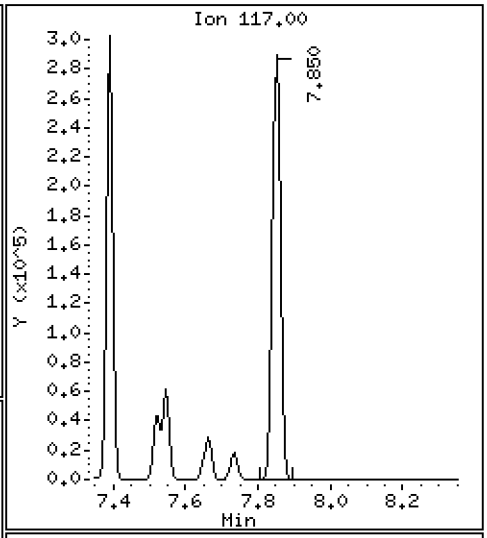
Sample Info: 1238;;1;1;5;;;

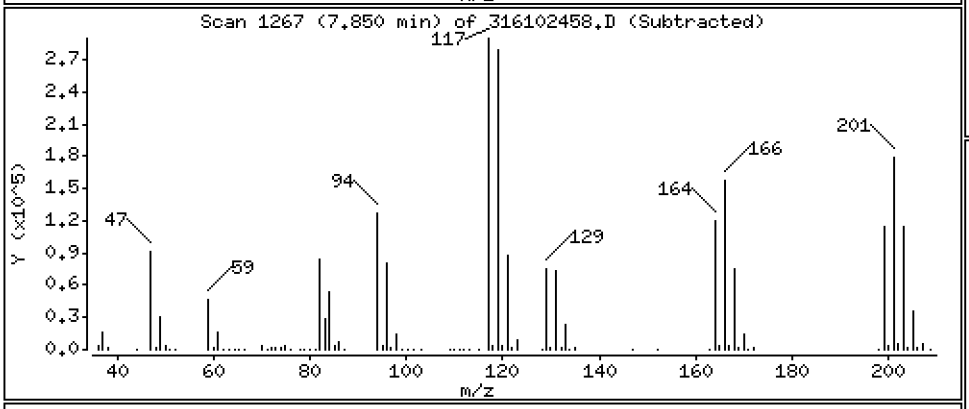
Purge Volume: 5.0 Operator: CJG

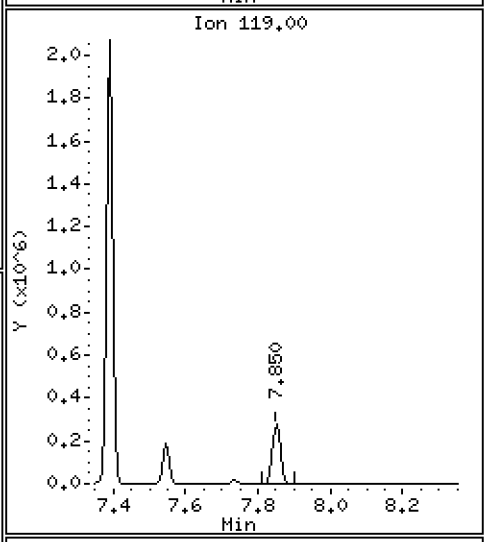
Column phase: DB-VRX Column diameter: 0.25

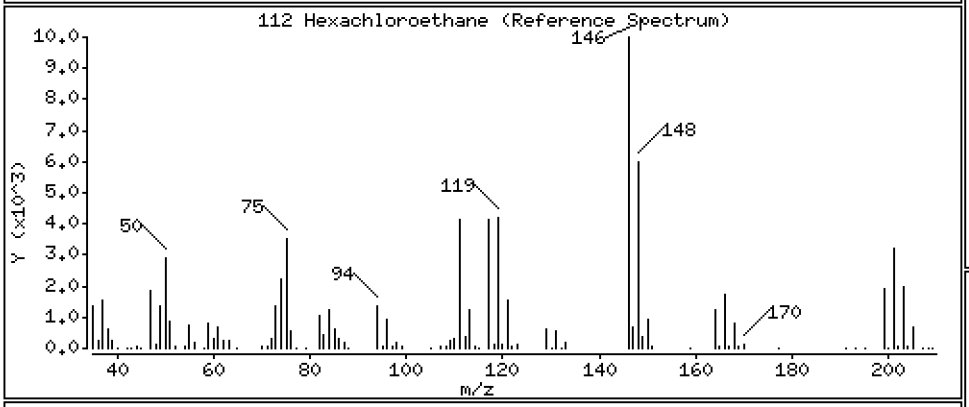
112 Hexachloroethane Concentration: 102.592 ug/L

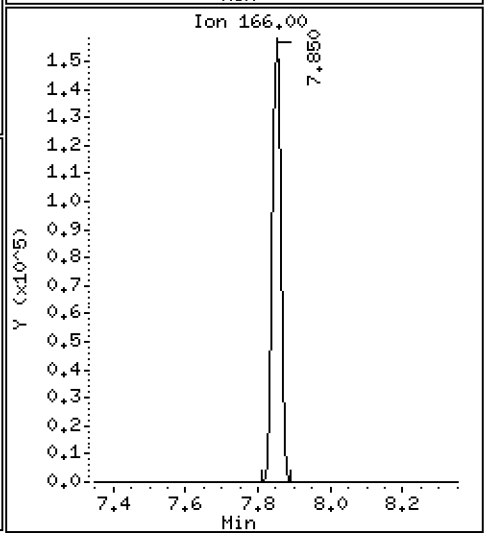


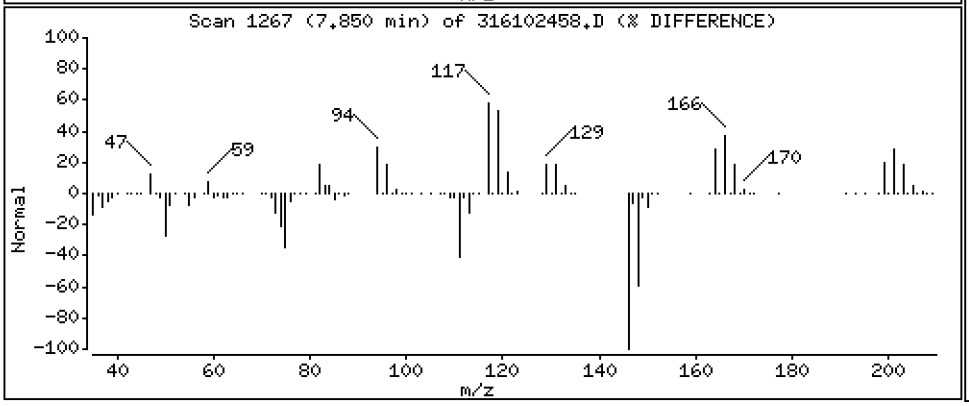












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 113

Date : 25-OCT-2016 01:14

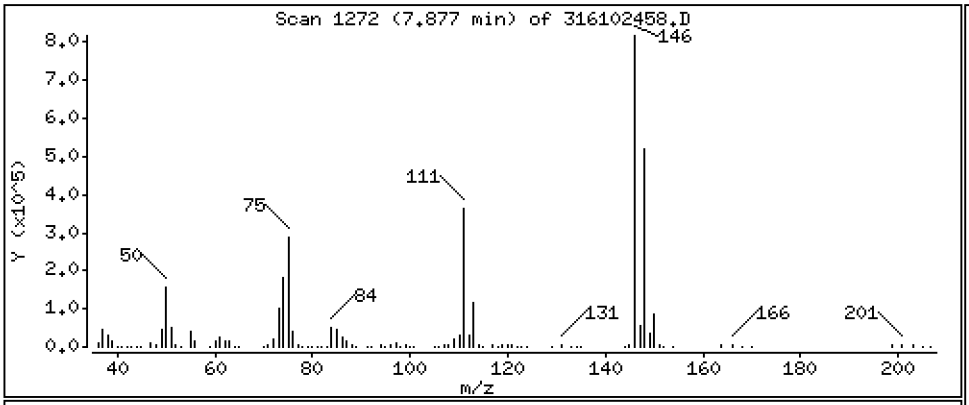
Client ID: Instrument: ms03.i

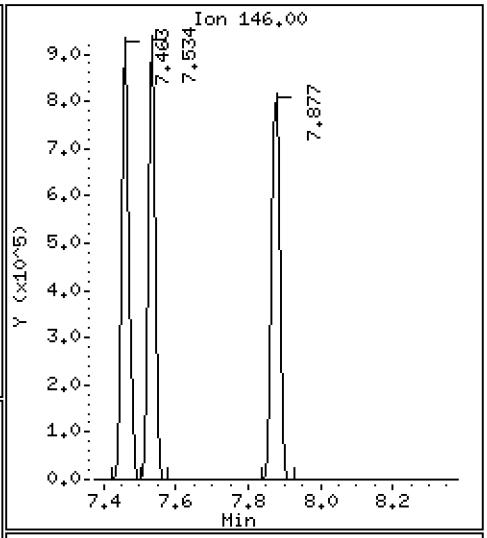
Sample Info: 1238;;1;1;5;;;

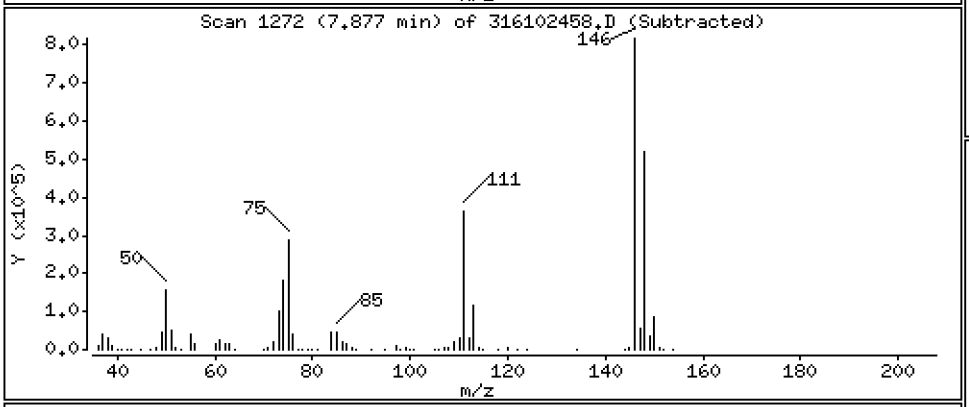
Purge Volume: 5.0 Operator: CJG

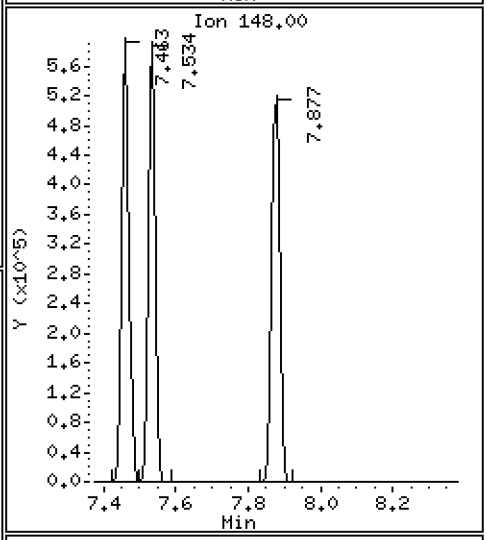
Column phase: DB-VRX Column diameter: 0.25

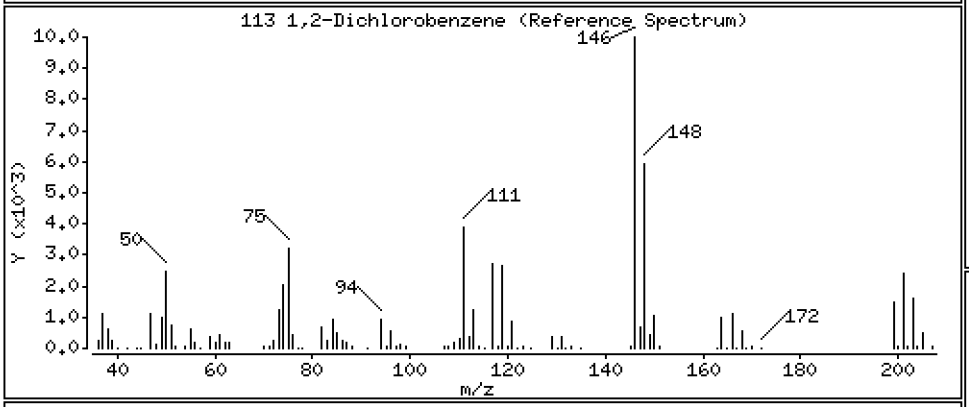
113 1,2-Dichlorobenzene Concentration: 100.443 ug/L

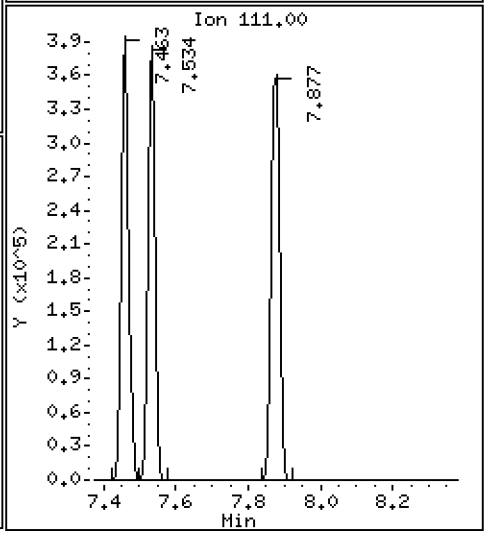


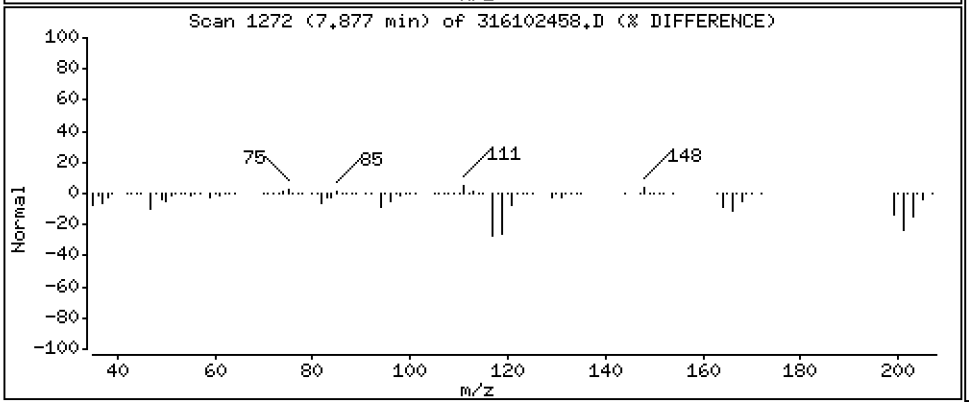












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 114

Date : 25-OCT-2016 01:14

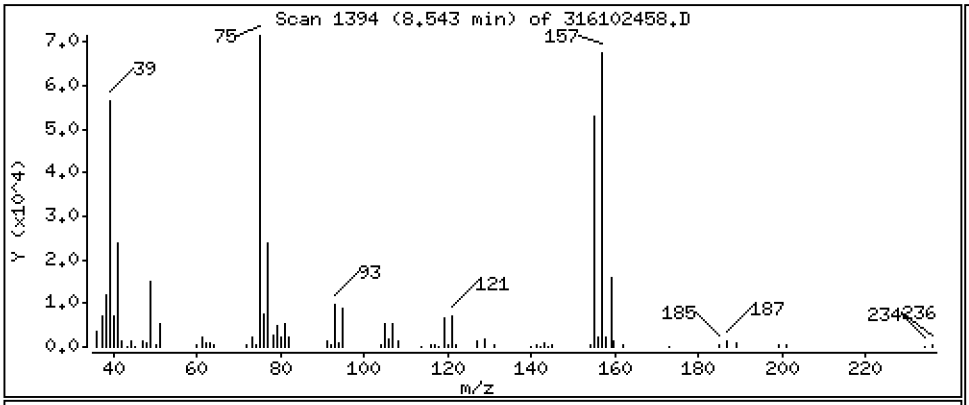
Client ID: Instrument: ms03.i

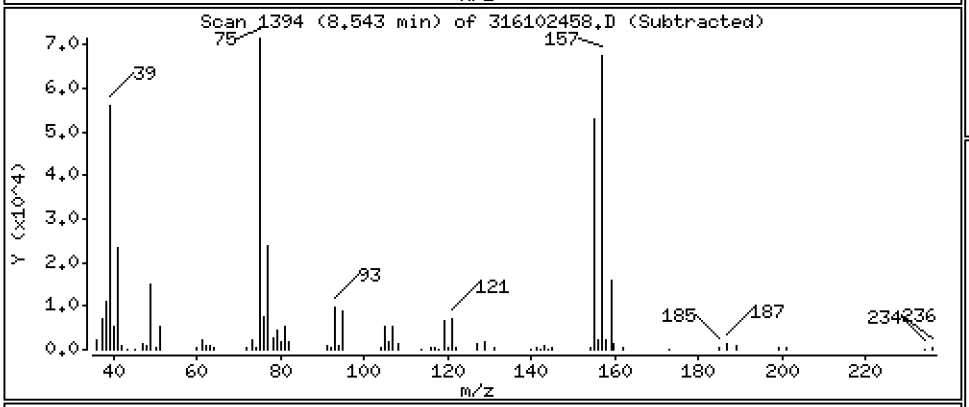
Sample Info: 1238;;1;1;5;;;

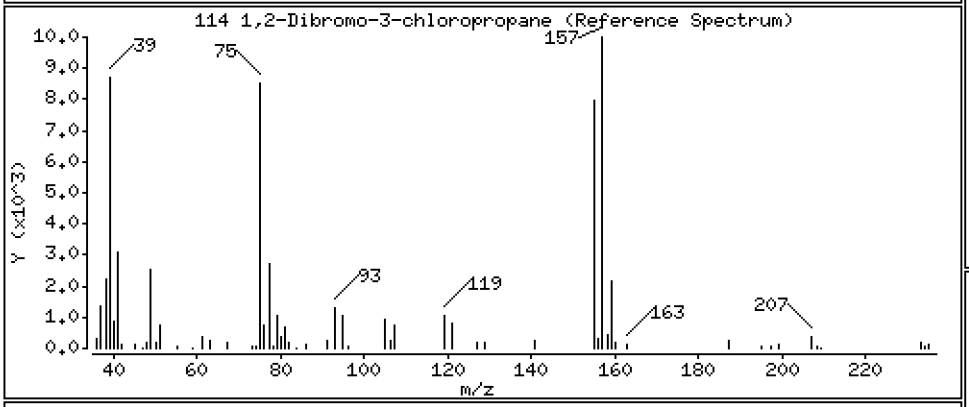
Purge Volume: 5.0 Operator: CJG

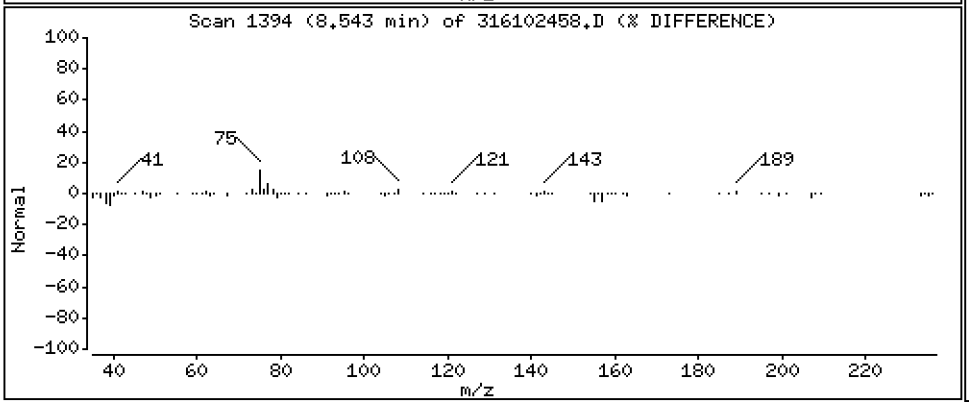
Column phase: DB-VRX Column diameter: 0.25

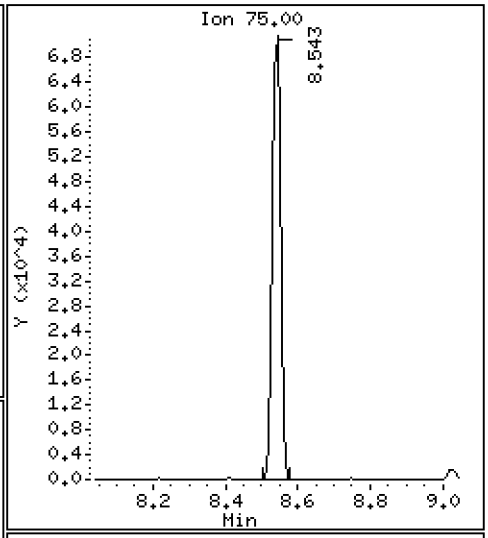
114 1,2-Dibromo-3-chloropropane Concentration: 100.188 ug/L

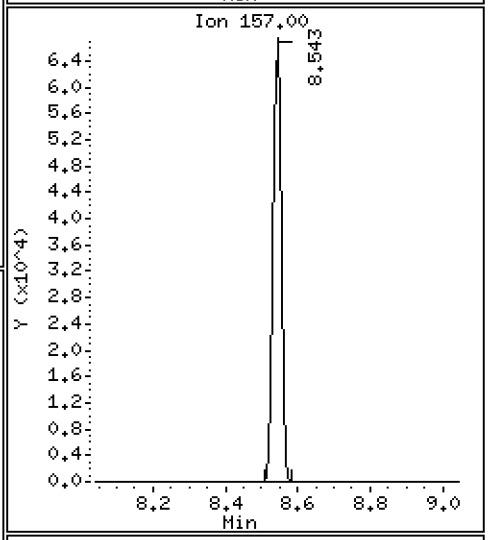


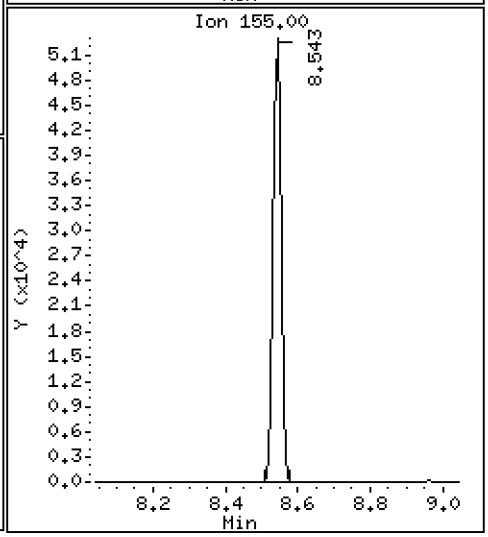












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 115

Date : 25-OCT-2016 01:14

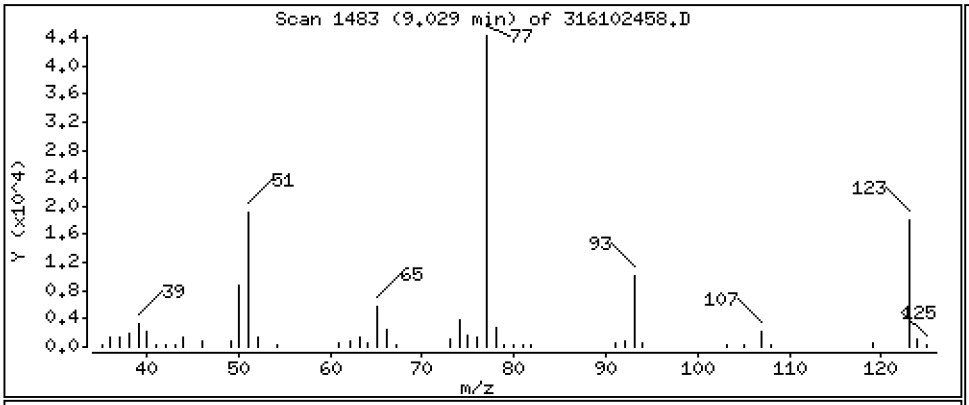
Client ID: Instrument: ms03.i

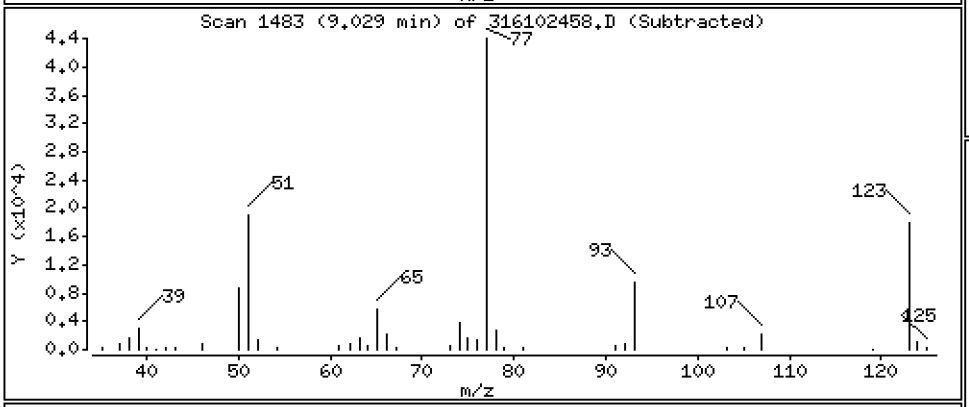
Sample Info: 1238;;1;1;5;;;

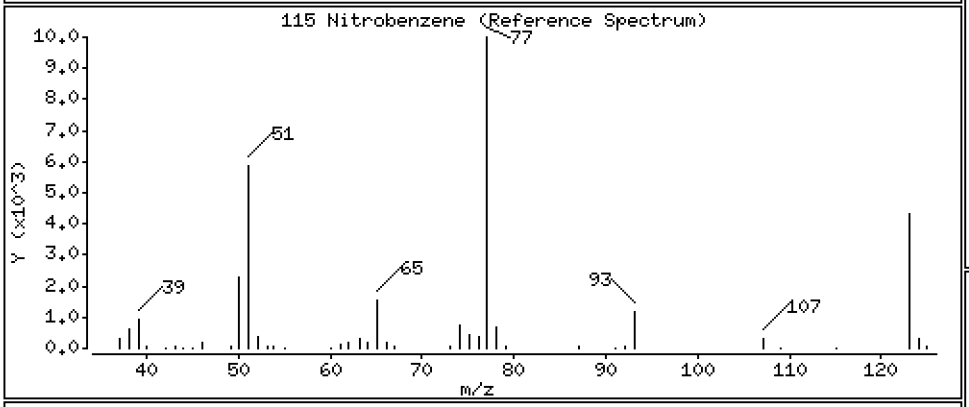
Purge Volume: 5.0 Operator: CJG

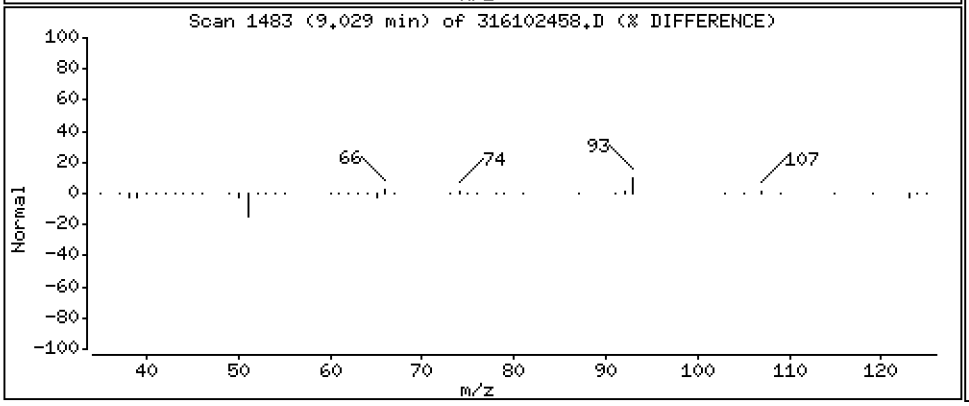
Column phase: DB-VRX Column diameter: 0.25

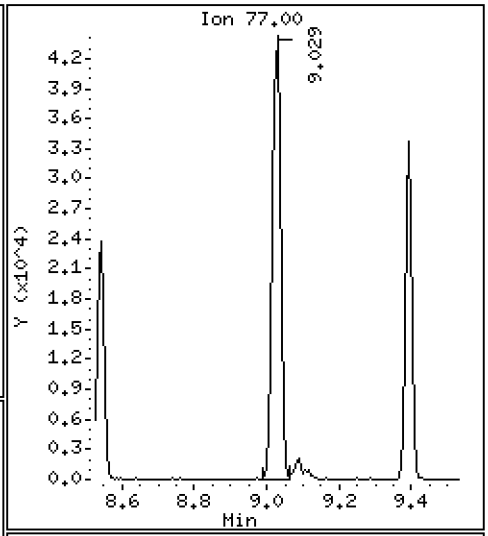
115 Nitrobenzene Concentration: 965.255 ug/L

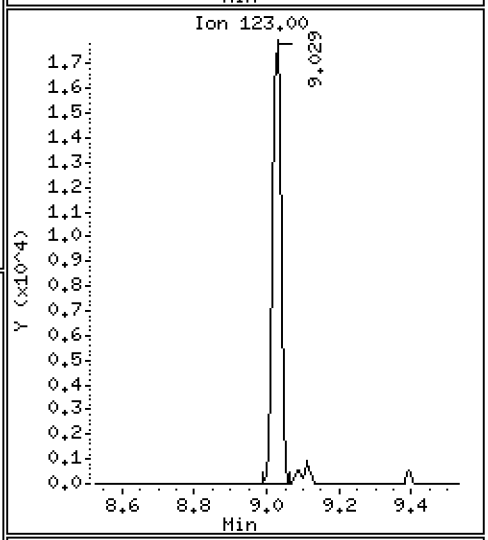


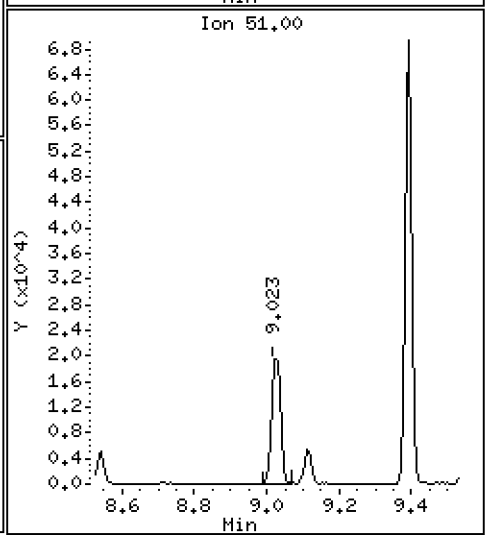












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 116

Date : 25-OCT-2016 01:14

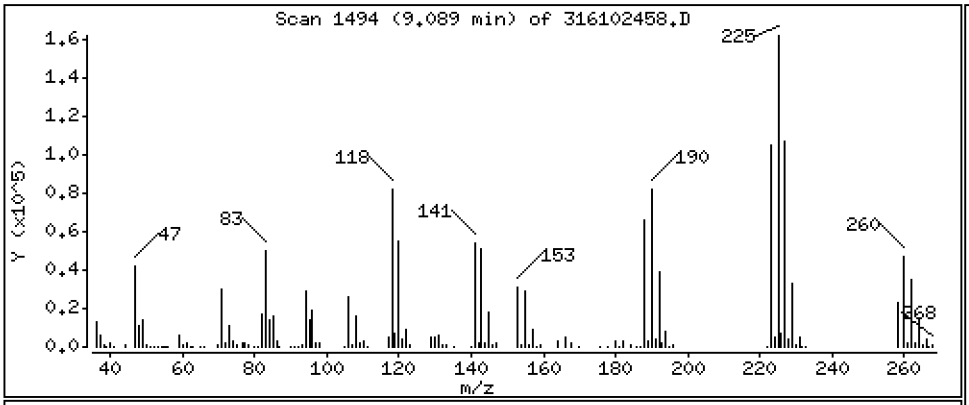
Client ID: Instrument: ms03.i

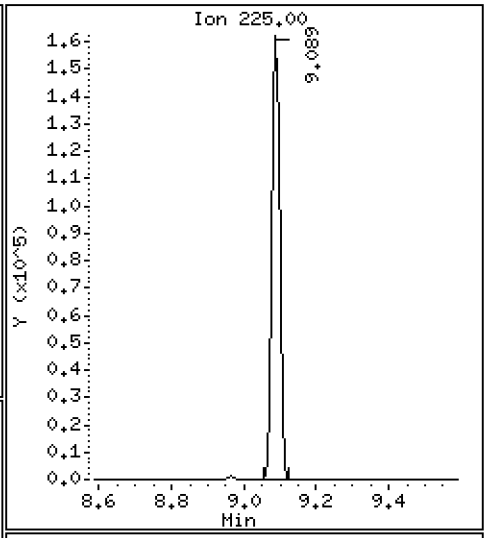
Sample Info: 1238;;1;1;5;;;

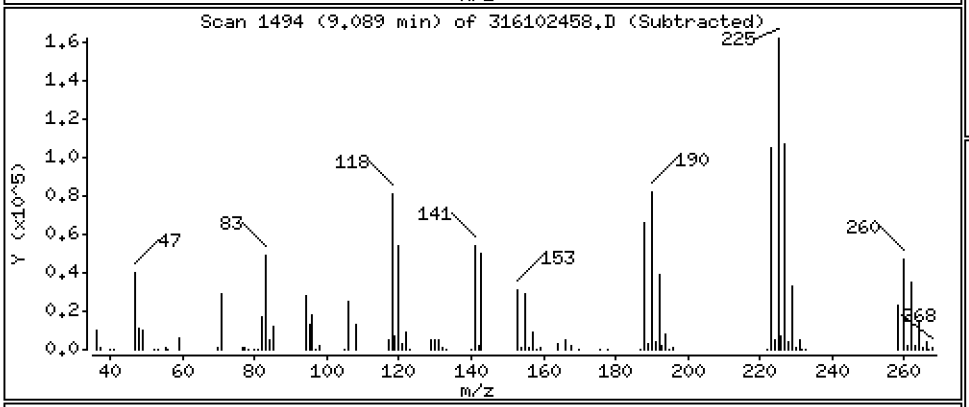
Purge Volume: 5.0 Operator: CJG

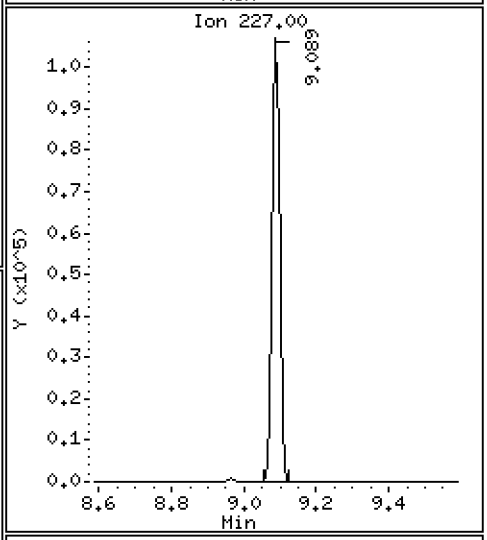
Column phase: DB-VRX Column diameter: 0.25

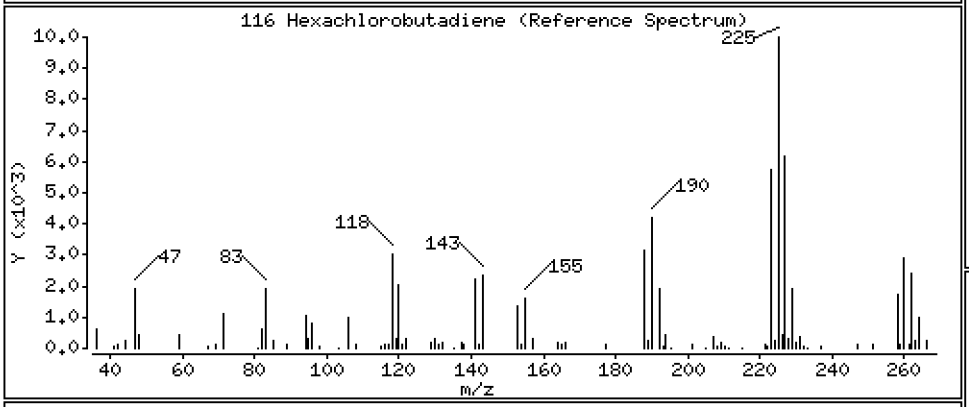
116 Hexachlorobutadiene Concentration: 101.121 ug/L

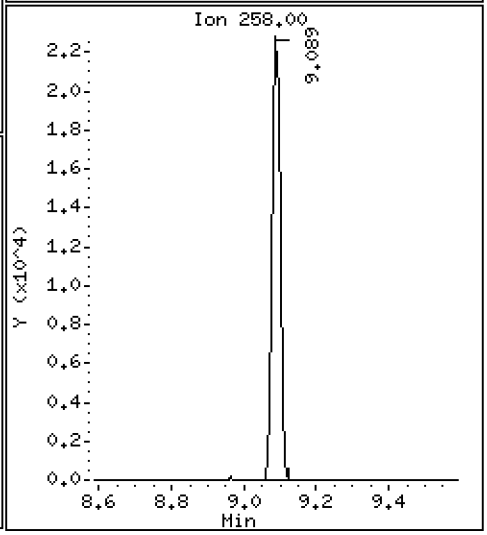


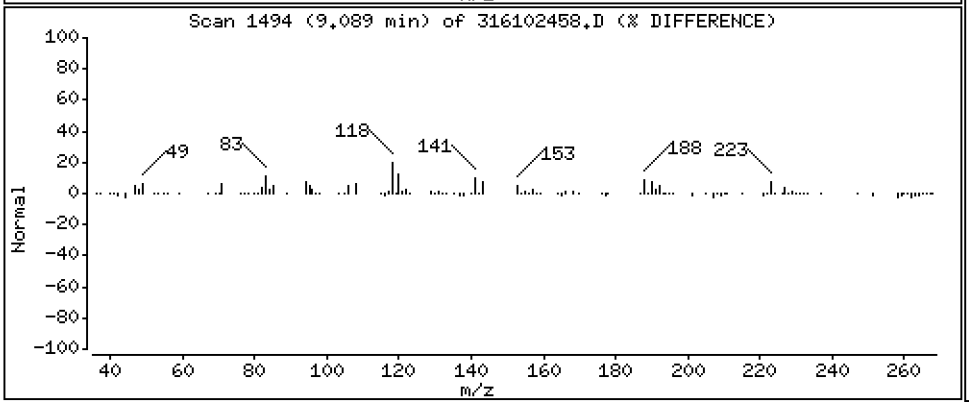












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 117

Date : 25-OCT-2016 01:14

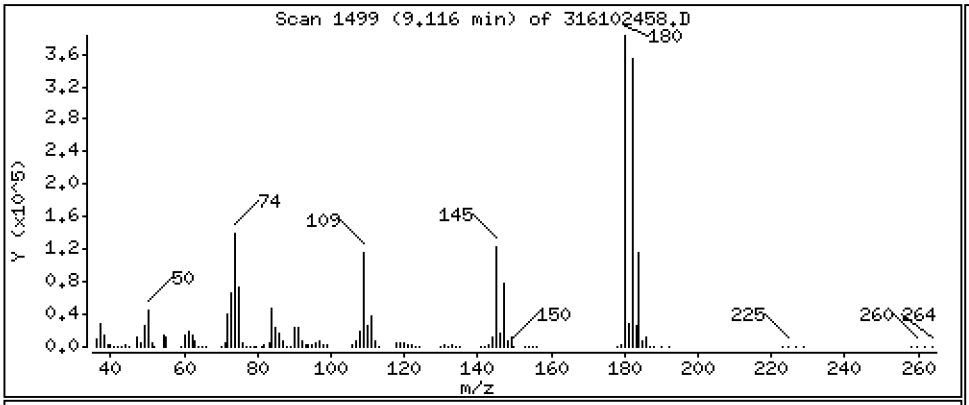
Client ID: Instrument: ms03.i

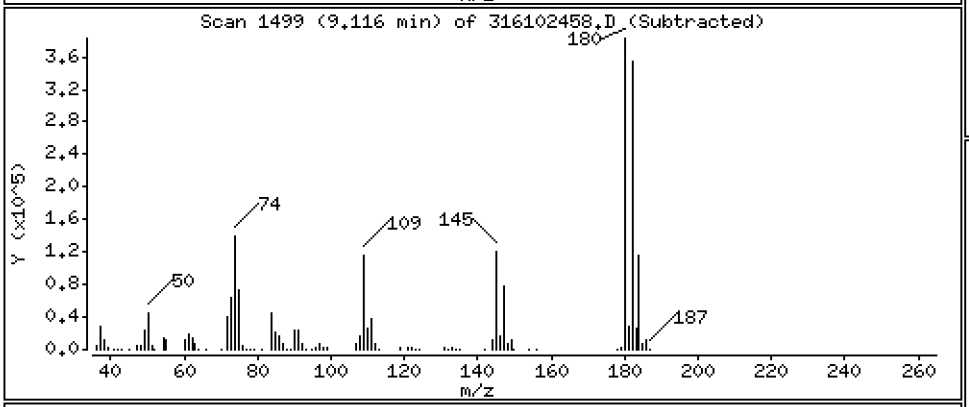
Sample Info: 1238;;1;1;5;;;

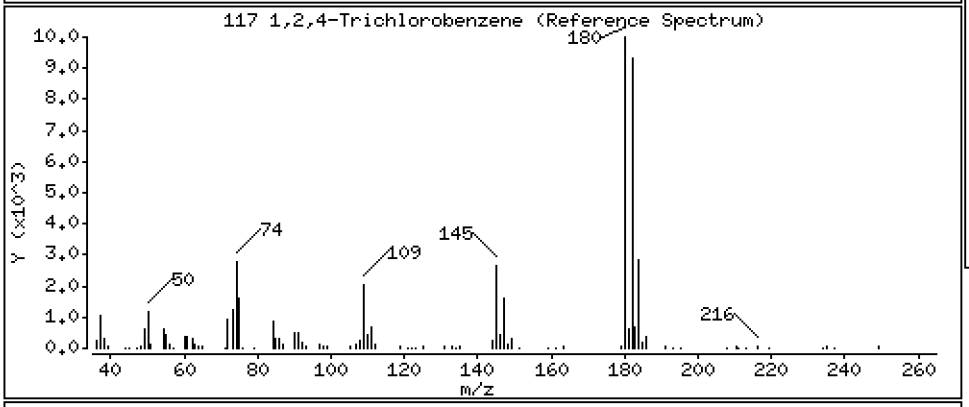
Purge Volume: 5.0 Operator: CJG

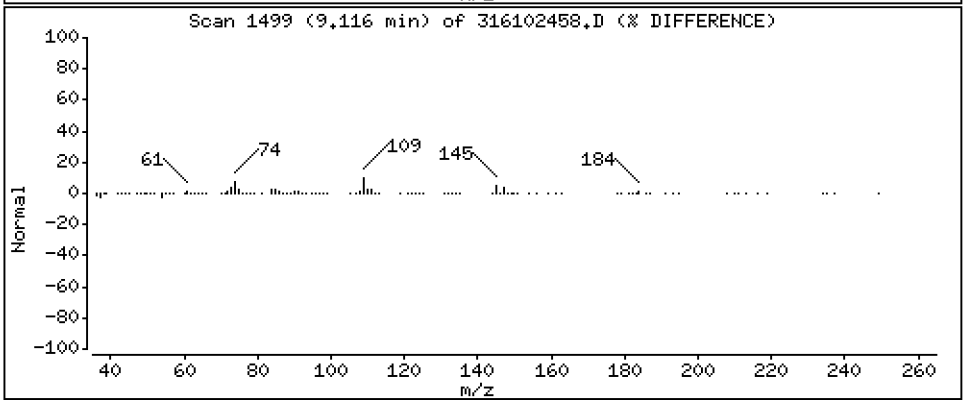
Column phase: DB-VRX Column diameter: 0.25

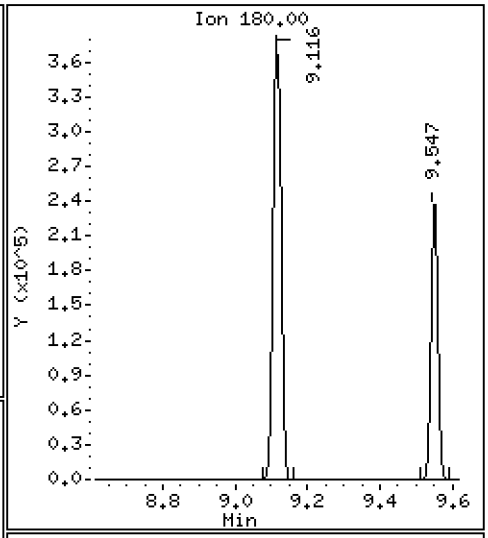
117 1,2,4-Trichlorobenzene Concentration: 101.097 ug/L

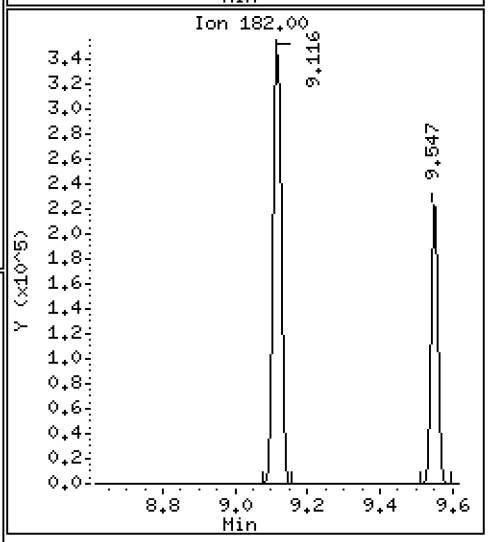












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 118

Date : 25-OCT-2016 01:14

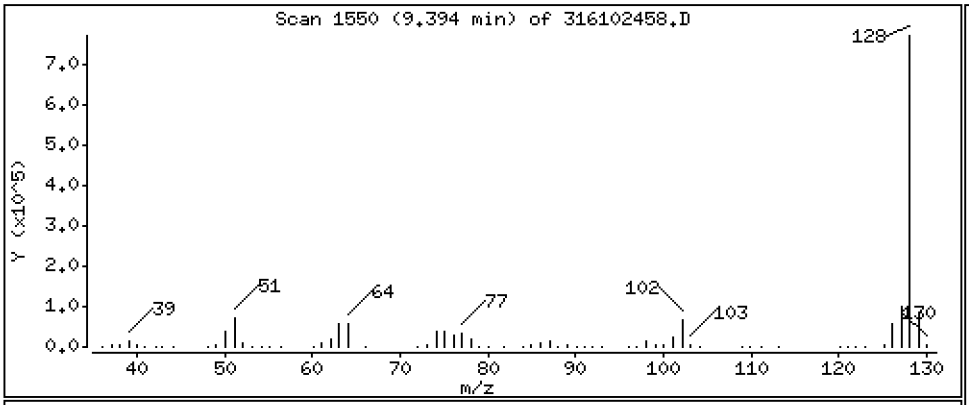
Client ID: Instrument: ms03.i

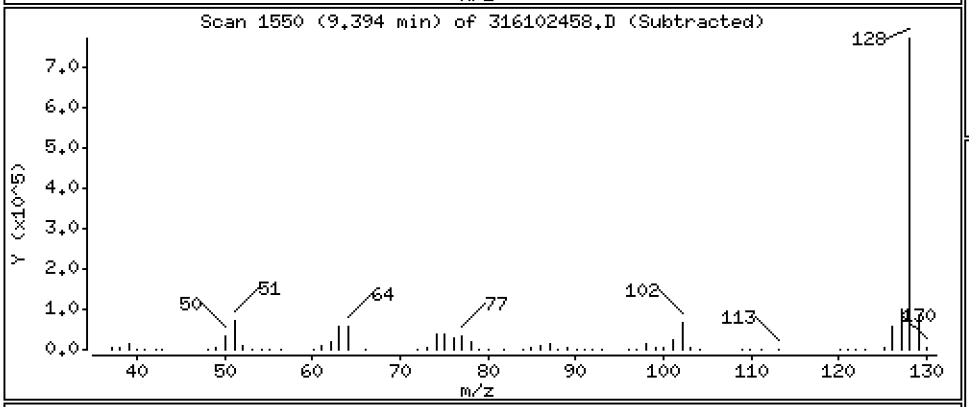
Sample Info: 1238;;1;1;5;;;

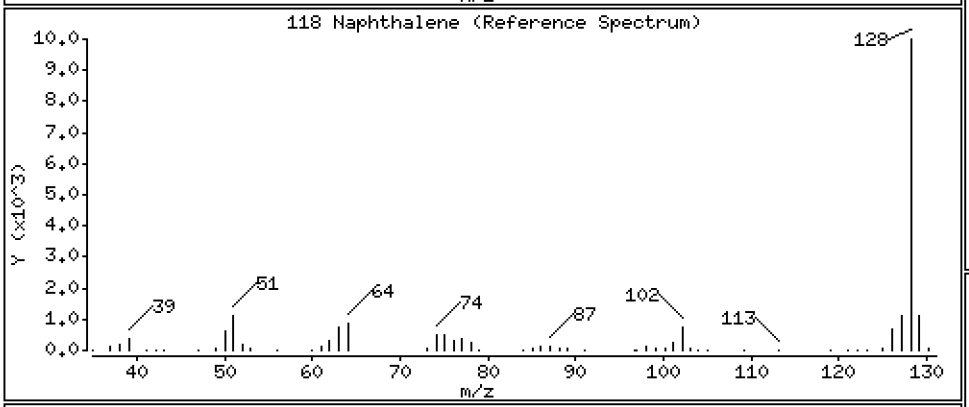
Purge Volume: 5.0 Operator: CJG

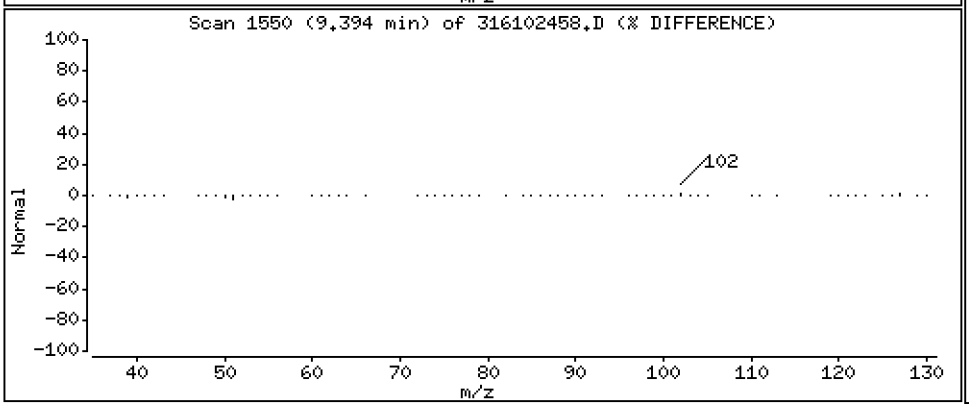
Column phase: DB-VRX Column diameter: 0.25

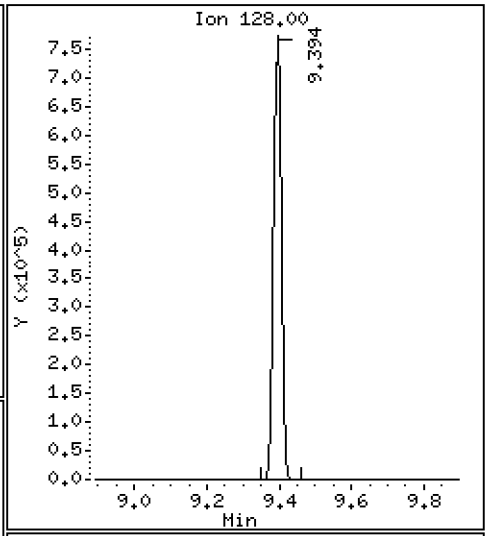
118 Naphthalene Concentration: 101.287 ug/L

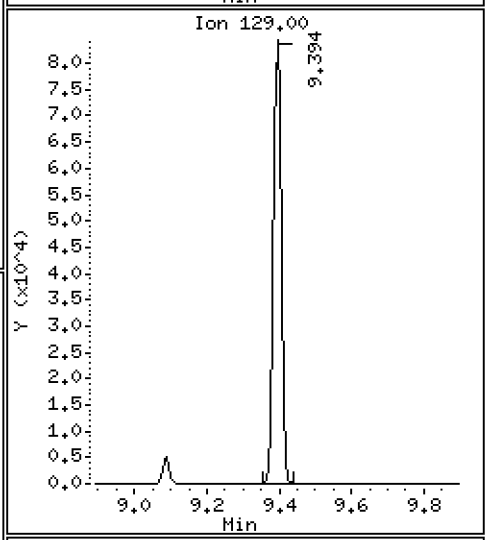


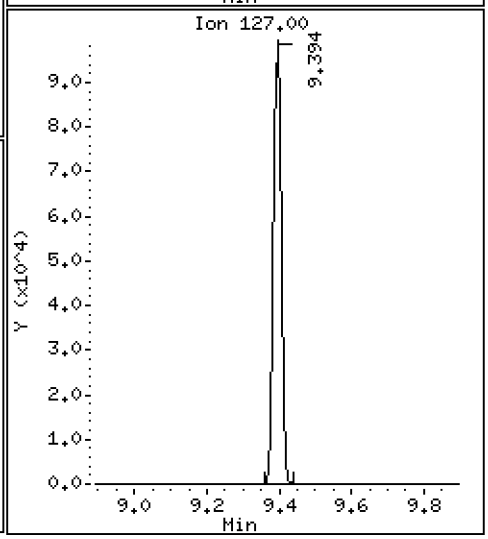












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102458.D Page 119

Date : 25-OCT-2016 01:14

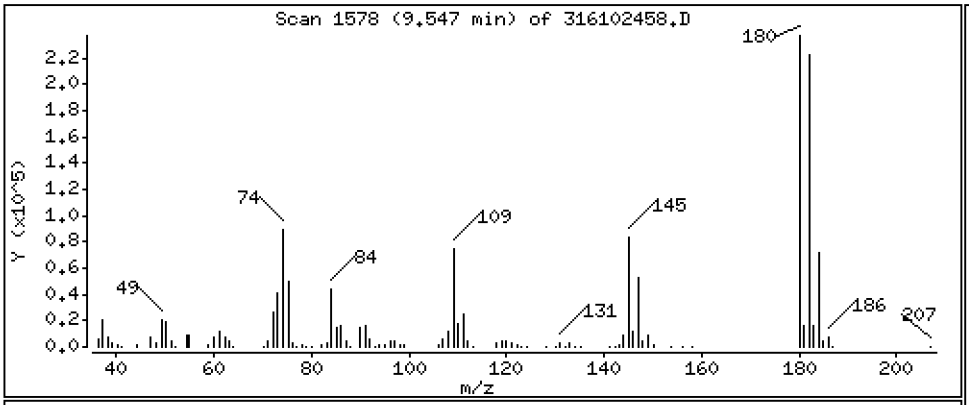
Client ID: Instrument: ms03.i

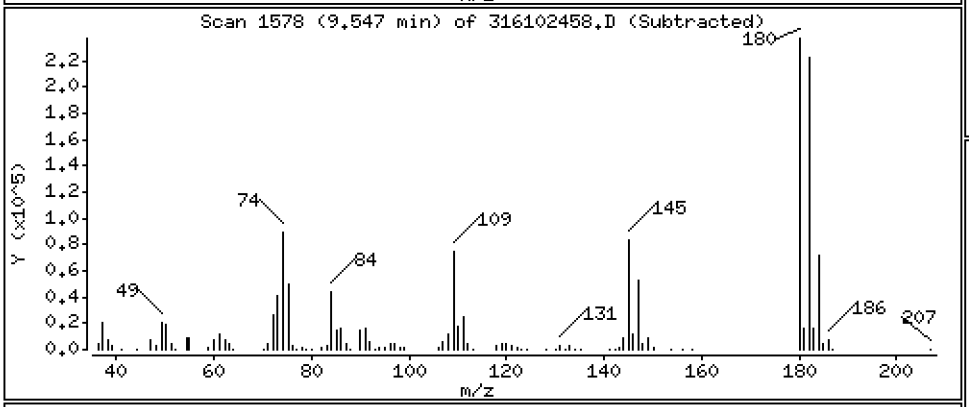
Sample Info: 1238;;1;1;5;;;

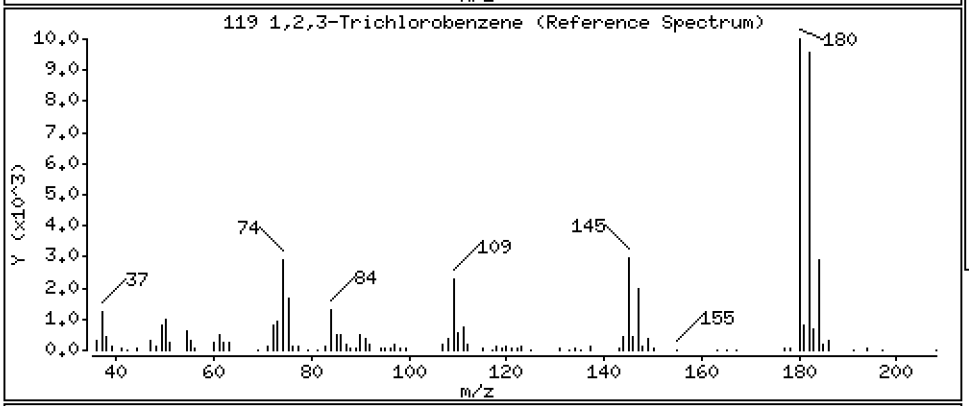
Purge Volume: 5.0 Operator: CJG

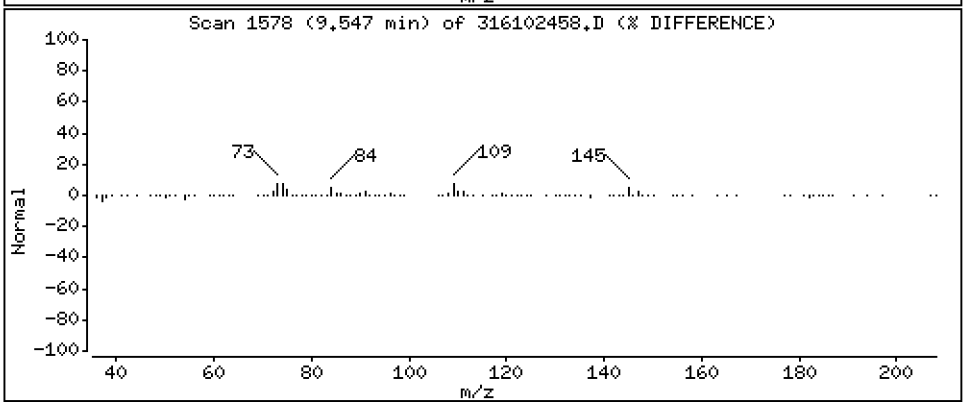
Column phase: DB-VRX Column diameter: 0.25

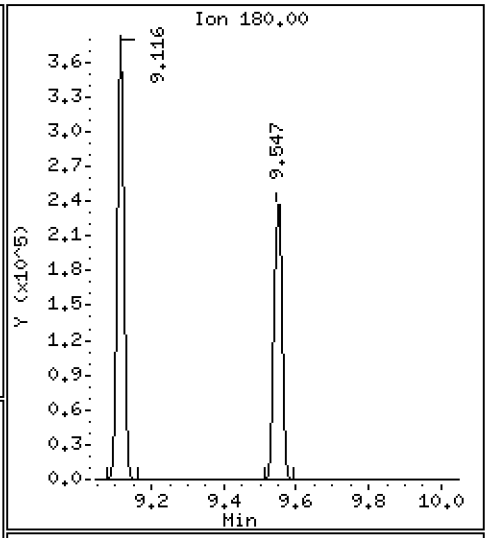
119 1,2,3-Trichlorobenzene Concentration: 99.3515 ug/L

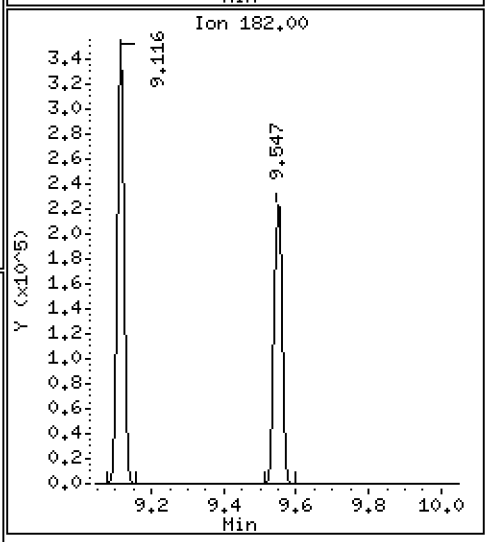








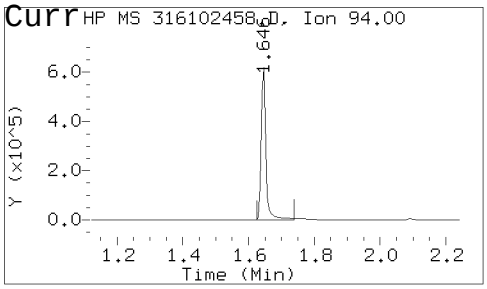


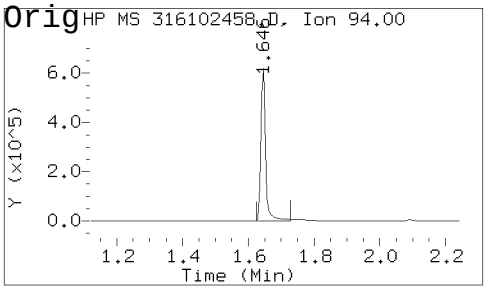


MANUAL INTEGRATION REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1238 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102458.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102458.D
Injection Date: 25-OCT-2016 01:14 Operator: CJG

Bromomethane

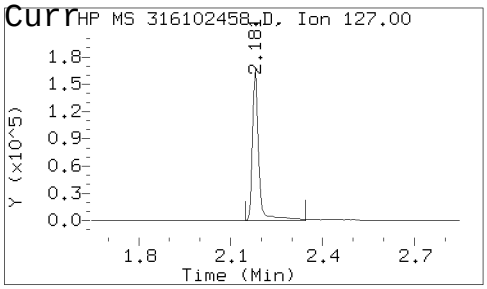
Curr 

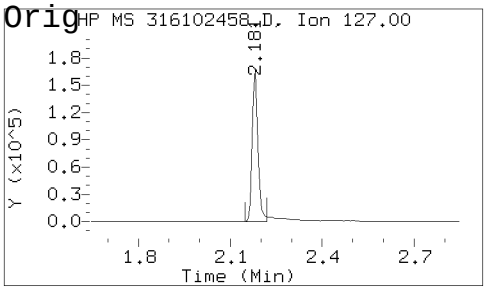
Orig 

Curr. Area: 611189
Orig. Area: 603715

Curr. ON-COL: 104.093
Orig. ON-COL: 110.333

Iodomethane

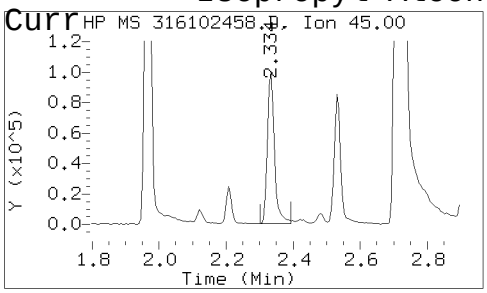
Curr 

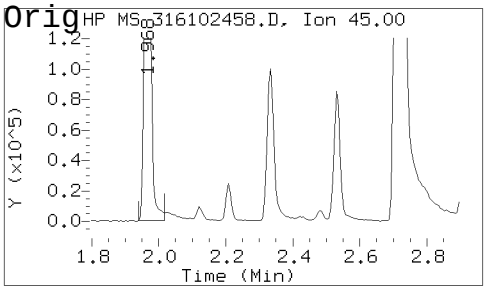
Orig 

Curr. Area: 235374
Orig. Area: 213676

Curr. ON-COL: 105.804
Orig. ON-COL: 111.258

Isopropyl Alcohol

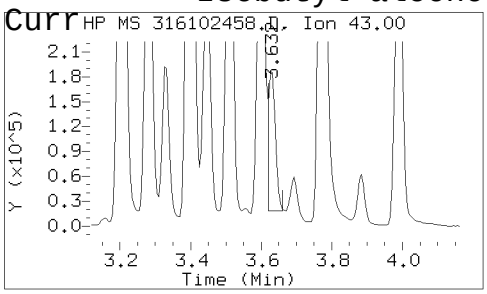
Curr 

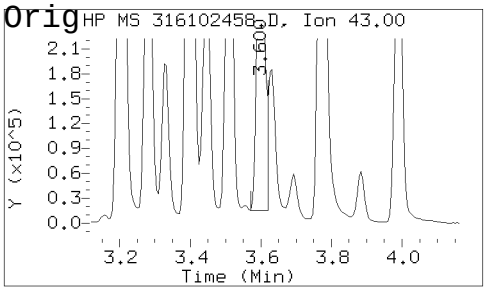
Orig 

Curr. Area: 143587
Orig. Area: 593753

Curr. ON-COL: 495.120
Orig. ON-COL: 805.400

Isobutyl alcohol

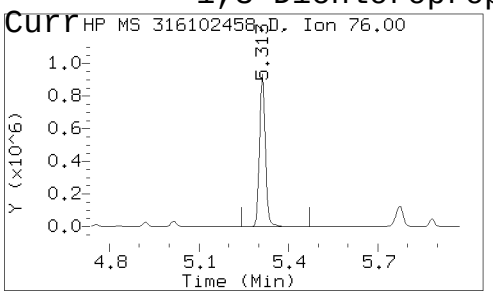
Curr 

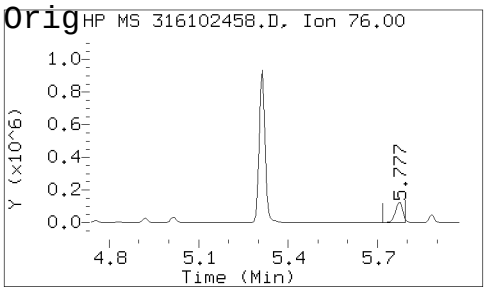
Orig 

Curr. Area: 217197
Orig. Area: 713537

Curr. ON-COL: 962.747
Orig. ON-COL: 1455.99

1,3-Dichloropropane

Curr 

Orig 

Curr. Area: 1296618
Orig. Area: 212767

Curr. ON-COL: 99.3658
Orig. ON-COL: 27.7169

UNASSIGNED PEAK REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1238 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102458.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102458.D
Injection Date: 25-OCT-2016 01:14 Operator: CJG

Data File: 316102459.D Page 1
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610245
Lab Smp Id: 1239
Inj Date : 25-OCT-2016 01:36
Operator : CJG Inst ID: ms03.i
Smp Info : 1239;;1;1;6;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b0
Meth Date : 25-Oct-2016 10:10 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:36 Cal File: 316102459.D
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: ALMDTW7062

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.259	(0.332)	2684578	200.000	200.025(A)	
2 Chloromethane	50	1.389	1.390	(0.367)	2361293	200.000	200.020(A)	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	2731229	200.000	199.986	
4 Bromomethane	94	1.646	1.646	(0.434)	1481026	200.000	199.801	
5 Chloroethane	64	1.722	1.723	(0.454)	1695539	200.000	199.997	
6 Pentane	41	1.793	1.794	(0.473)	1462656	200.000	200.202(A)	
7 Trichlorofluoromethane	101	1.798	1.799	(0.475)	3126719	200.000	200.152(A)	
8 Dichlorofluoromethane	67	1.831	1.826	(0.483)	3665357	200.000	200.011(A)	
9 Ethyl Ether	74	1.967	1.968	(0.519)	1334329	200.000	200.245(A)	
10 1,1-Dichloroethene	61	2.088	2.088	(0.551)	2597207	200.000	200.031(A)	
11 Freon 113	101	2.104	2.105	(0.555)	1413630	200.000	200.150(A)	
12 Carbon Disulfide	76	2.120	2.121	(0.560)	4917931	200.000	199.764	
13 Iodomethane	127	2.180	2.181	(0.575)	494749	200.000	199.511(M)	H
14 Acrolein	56	2.273	2.274	(0.600)	2729113	2000.00	1999.80	
15 Isopropyl Alcohol	45	2.333	2.334	(0.616)	304769	1000.00	1000.95(AM)	H
16 3-Chloro-1-propene	41	2.344	2.345	(0.619)	2096510	200.000	199.640	
17 Methylene Chloride	84	2.404	2.405	(0.634)	1758964	200.000	199.993	
18 Acetone	58	2.426	2.427	(0.640)	649958	1000.00	1001.16(A)	
19 Methyl acetate	74	2.480	2.481	(0.655)	282862	200.000	200.164(AQ)	
20 trans-1,2-Dichloroethene	61	2.486	2.487	(0.656)	2562342	200.000	199.940	
21 Hexane	57	2.519	2.519	(0.665)	3574705	200.000	199.959	

Data File: 316102459.D Page 2
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.530	2.530	(0.667)	4863634	200.000	199.972	
	23 tert.- Butyl Alcohol	59	2.568	2.563	(0.678)	559175	1000.00	999.175	
	24 Acetonitrile	41	2.682	2.683	(0.708)	765676	1000.00	1000.81(A)	
	25 Diisopropyl ether	45	2.720	2.721	(0.718)	6279504	200.000	199.890	
	26 Chloroprene	53	2.797	2.798	(0.738)	2685469	200.000	200.016(A)	
	27 1,1-Dichloroethane	63	2.813	2.814	(0.742)	3342399	200.000	200.104(A)	
	28 Acrylonitrile	53	2.846	2.841	(0.751)	3179646	1000.00	999.785	
	29 Ethyl tert-butyl ether	59	2.911	2.912	(0.768)	5706389	200.000	199.829	
	30 n-Propanol	41	2.911	2.912	(0.768)	1096313	2000.00	2000.15(AQ)	
	31 Vinyl Acetate	86	2.928	2.929	(0.773)	398460	200.000	199.840(Q)	
	32 cis-1,2-Dichloroethene	61	3.097	3.098	(0.817)	2585918	200.000	200.026(A)	
	33 2,2-Dichloropropane	77	3.162	3.158	(0.834)	2334464	200.000	199.927	
	34 Bromochloromethane	128	3.212	3.207	(0.847)	734217	200.000	199.684	
	35 Cyclohexane	84	3.212	3.212	(0.847)	2804116	200.000	200.114(A)	
	36 Chloroform	83	3.233	3.234	(0.853)	3259733	200.000	200.129(A)	
	37 Ethyl Acetate	43	3.282	3.278	(0.866)	1662545	200.000	200.015(A)	
	38 Methyl acrylate	55	3.293	3.294	(0.869)	1606800	200.000	199.986	
	39 Carbon Tetrachloride	117	3.326	3.321	(0.878)	1991078	200.000	199.971	
	40 Tetrahydrofuran	42	3.332	3.327	(0.879)	2519321	1000.00	1000.65(A)	
$	41 Dibromofluoromethane	113	3.337	3.338	(0.881)	1452376	200.000	194.573	
	42 1,1,1-Trichloroethane	97	3.359	3.360	(0.886)	2515975	200.000	199.871	
	43 2-Butanone	72	3.397	3.398	(0.896)	1082853	1000.00	1000.52(A)	
	44 1,1-Dichloropropene	75	3.424	3.425	(0.904)	2512363	200.000	200.103(A)	
	45 1-Chlorobutane	41	3.446	3.447	(0.909)	1936940	200.000	200.139(A)	
	46 Heptane	71	3.512	3.512	(0.927)	1169855	200.000	199.827	
	47 Benzene	78	3.566	3.567	(0.941)	7700557	200.000	200.077(A)	
	48 Propionitrile	54	3.577	3.578	(0.944)	1164895	1000.00	1000.96(A)	
	49 Methacrylonitrile	67	3.588	3.583	(0.947)	751610	200.000	200.167(A)	
	50 tert-Amyl methyl ether	73	3.599	3.600	(0.950)	4690624	200.000	199.900	
$	51 1,2-Dichloroethane-d4	65	3.637	3.638	(0.960)	1759427	200.000	200.271(A)	
	52 1,2-Dichloroethane	62	3.675	3.676	(0.970)	2264105	200.000	200.008(A)	
	53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	520760	1000.00	1000.25(AQ)	
	54 Isobutyl alcohol	43	3.632	3.632	(0.958)	619279	2000.00	2004.48(A)	
*	55 Fluorobenzene	96	3.790	3.791	(1.000)	1130573	30.0000		
	56 Diisobutylene	57	3.795	3.796	(1.001)	4638559	200.000	200.082(A)	
	57 Trichloroethene	95	3.883	3.883	(1.024)	1852740	200.000	200.074(A)	
	58 Methyl cyclohexane	83	3.883	3.883	(0.674)	3043988	200.000	200.131(A)	
	59 tert-Amyl Ethylether	59	3.992	3.987	(1.053)	4342458	200.000	199.800	
	60 Dibromomethane	93	4.139	4.139	(1.092)	1001342	200.000	199.912	
	61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	1990610	200.000	199.932	
	62 Bromodichloromethane	83	4.221	4.222	(1.114)	2285565	200.000	199.874	
	63 Methyl methacrylate	41	4.292	4.293	(1.132)	1569773	200.000	199.729	
	64 1,4-Dioxane	88	4.336	4.336	(1.144)	159760	5000.00	4737.25	
	65 2-Chloroethylvinyl ether	63	4.548	4.549	(1.200)	1004011	200.000	199.747	
	66 cis-1,3-Dichloropropene	75	4.603	4.604	(0.799)	3045282	200.000	199.825	
	67 Octane	85	4.608	4.609	(0.800)	787585	200.000	199.759	
$	68 Toluene-d8	98	4.723	4.724	(0.820)	6159407	200.000	200.016(A)	
	69 Toluene	92	4.756	4.756	(0.826)	4419448	200.000	200.127(A)	
	70 Chloroacetonitrile	48	4.832	4.833	(0.839)	217651	1000.00	965.683	
	71 2-Nitropropane	41	4.908	4.909	(0.852)	2024040	1000.00	939.738	
	72 1,1-Dichloro-2-Propanone	63	4.919	4.920	(0.854)	183114	1000.00	1000.20(AQ)	
	73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.986	(0.865)	8504978	1000.00	1000.54(A)	
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	1230785	200.000	200.266(A)	
	75 trans-1,3-Dichloropropene	75	5.018	5.013	(0.871)	2639052	200.000	199.843	

Data File: 316102459.D Page 3
Report Date: 25-Oct-2016 10:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.094	5.095	(0.884)	2427009	200.000	199.915	
	77 1,1,2-Trichloroethane	83	5.127	5.122	(0.890)	1250936	200.000	200.122(A)	
	78 Chlorodibromomethane	129	5.247	5.247	(0.911)	1468576	200.000	199.834	
	79 1,3-Dichloropropane	76	5.312	5.313	(0.922)	2738035	200.000	200.110(AM)	
	80 1,2-Dibromoethane	107	5.421	5.422	(0.941)	1365433	200.000	200.001(A)	
	81 2-Hexanone	43	5.541	5.542	(0.962)	5610777	1000.00	1000.08(A)	
	82 1-Chlorohexane	91	5.738	5.739	(0.996)	2518197	200.000	199.762	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	484544	30.0000		
	84 Chlorobenzene	112	5.776	5.777	(1.003)	4517655	200.000	200.088(A)	
	85 Ethylbenzene	106	5.781	5.782	(1.004)	2537524	200.000	200.070(A)	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.815	(1.009)	1373862	200.000	199.950	
	87 mp-Xylene	106	5.885	5.880	(1.022)	6172417	400.000	400.106(A)	
	88 o-Xylene	106	6.196	6.197	(1.076)	2863228	200.000	199.876	
	89 Styrene	104	6.234	6.235	(0.829)	4716658	200.000	199.890	
	90 Bromoform	173	6.267	6.262	(0.833)	708243	200.000	199.791	
	91 Isopropylbenzene	105	6.425	6.426	(0.854)	7204298	200.000	199.964	
$	92 4-Bromofluorobenzene	174	6.649	6.650	(0.884)	1321853	200.000	199.797	
	93 Bromobenzene	156	6.731	6.732	(0.895)	1512840	200.000	199.983	
	94 n-Propylbenzene	120	6.736	6.737	(0.896)	1905307	200.000	199.982(Q)	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.792	(0.903)	1692076	200.000	200.124(A)	
	96 o-Chlorotoluene	91	6.867	6.868	(0.913)	5609598	200.000	199.958	
	97 1,3,5-Trimethylbenzene	105	6.889	6.884	(0.916)	5512068	200.000	199.938	
	98 1,2,3-Trichloropropane	110	6.906	6.906	(0.918)	491777	200.000	200.191(A)	
	99 trans-1,4-Dichloro-2-butene	53	6.933	6.933	(0.922)	484295	200.000	199.842(Q)	
M	100 1,2-Dichloroethene, Total	61				5148260	400.000	399.966	
	101 p-Chlorotoluene	91	6.993	6.994	(0.930)	5115561	200.000	199.900	
	102 tert-Butylbenzene	134	7.140	7.141	(0.949)	1223687	200.000	199.938	
	103 Pentachloroethane	117	7.162	7.163	(0.952)	1071817	200.000	199.812	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.956)	5487957	200.000	199.902	
	105 sec-Butylbenzene	105	7.277	7.277	(0.967)	6611086	200.000	199.873	
	106 p-Isopropyltoluene	134	7.391	7.392	(0.983)	1388464	200.000	199.845	
	107 1,3-Dichlorobenzene	146	7.462	7.463	(0.992)	2646613	200.000	199.899	
*	108 1,4-Dichlorobenzene-d4	152	7.522	7.523	(1.000)	319559	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	7.533	7.534	(1.001)	2747083	200.000	199.953	
	110 Benzyl Chloride	126	7.735	7.736	(1.028)	482251	200.000	199.646(Q)	
	111 n-Butylbenzene	134	7.735	7.736	(1.028)	1190411	200.000	199.764	
	112 Hexachloroethane	117	7.849	7.850	(1.044)	884099	200.000	199.586	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.047)	2391672	200.000	199.939	
	114 1,2-Dibromo-3-chloropropane	75	8.542	8.542	(1.136)	236845	200.000	199.950	
	115 Nitrobenzene	77	9.028	9.029	(1.200)	292262	2000.00	2002.92(A)	
	116 Hexachlorobutadiene	225	9.088	9.089	(1.208)	443687	200.000	199.837	
	117 1,2,4-Trichlorobenzene	180	9.115	9.116	(1.212)	1132094	200.000	199.807	
	118 Naphthalene	128	9.394	9.394	(1.249)	2491026	200.000	199.764	
	119 1,2,3-Trichlorobenzene	180	9.546	9.547	(1.269)	765705	200.000	200.065(A)	
M	120 1,3-Dichloropropene, Total	75				5684334	400.000	399.668	
M	121 Total Xylenes	106				9035645	600.000	599.982	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 316102459.D Page 4
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 25-OCT-2016
Lab File ID: 316102459.D Calibration Time: 00:52
Lab Smp Id: 1239
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: CJG
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	1130573	11.59
83 Chlorobenzene-d5	432864	216432	865728	484544	11.94
108 1,4-Dichlorobenze	273837	136919	547674	319559	16.70

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	-0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	-0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102459.D Page 5
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1239
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	200.025	E
74-87-3	Chloromethane	200.020	E
75-01-4	Vinyl Chloride	199.986	
74-83-9	Bromomethane	199.801	
75-00-3	Chloroethane	199.997	
109-66-0	Pentane	200.202	E
75-69-4	Trichlorofluoromethane	200.152	E
75-43-4	Dichlorofluoromethane	200.011	E
60-29-7	Ethyl Ether	200.245	E
75-35-4	1,1-Dichloroethene	200.031	E
76-13-1	Freon 113	200.150	E
75-15-0	Carbon Disulfide	199.764	
74-88-4	Iodomethane	199.511	
107-02-8	Acrolein	1999.80	
67-63-0	Isopropyl Alcohol	1000.95	E
107-05-1	3-Chloro-1-propene	199.640	
75-09-2	Methylene Chloride	199.993	
67-64-1	Acetone	1001.16	E
79-20-9	Methyl acetate	200.164	E
156-60-5	trans-1,2-Dichloroethene	199.940	
110-54-3	Hexane	199.959	
1634-04-4	Methyl t-Butyl Ether	199.972	
75-65-0	tert.- Butyl Alcohol	999.175	
75-05-8	Acetonitrile	1000.81	E
108-20-3	Diisopropyl ether	199.890	
126-99-8	Chloroprene	200.016	E
75-34-3	1,1-Dichloroethane	200.104	E
107-13-1	Acrylonitrile	999.785	
637-92-3	Ethyl tert-butyl ether	199.829	
71-23-8	n-Propanol	2000.15	E
108-05-4	Vinyl Acetate	199.840	
156-59-2	cis-1,2-Dichloroethene	200.026	E
594-20-7	2,2-Dichloropropane	199.927	
74-97-5	Bromochloromethane	199.684	
110-82-7	Cyclohexane	200.114	E
67-66-3	Chloroform	200.129	E
141-78-6	Ethyl Acetate	200.015	E
96-33-3	Methyl acrylate	199.986	
56-23-5	Carbon Tetrachloride	199.971	
109-99-9	Tetrahydrofuran	1000.65	E
71-55-6	1,1,1-Trichloroethane	199.871	
78-93-3	2-Butanone	1000.52	E

Data File: 316102459.D Page 6
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1239
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
563-58-6	1,1-Dichloropropene	200.103	E
109-69-3	1-Chlorobutane	200.139	E
142-82-5	Heptane	199.827	
71-43-2	Benzene	200.077	E
107-12-0	Propionitrile	1000.96	E
126-98-7	Methacrylonitrile	200.167	E
994-05-8	tert-Amyl methyl ether	199.900	
107-06-2	1,2-Dichloroethane	200.008	E
75-85-4	tert-Amyl Alcohol	1000.25	E
78-83-1	Isobutyl alcohol	2004.48	E
107-39-1	Diisobutylene	200.082	E
79-01-6	Trichloroethene	200.074	E
108-87-2	Methyl cyclohexane	200.131	E
919-94-8	tert-Amyl Ethylether	199.800	
74-95-3	Dibromomethane	199.912	
78-87-5	1,2-Dichloropropane	199.932	
75-27-4	Bromodichloromethane	199.874	
80-62-6	Methyl methacrylate	199.729	
123-91-1	1,4-Dioxane	4737.25	
110-75-8	2-Chloroethylvinyl ether	199.747	
10061-01-5	cis-1,3-Dichloropropene	199.825	
111-65-9	Octane	199.759	
108-88-3	Toluene	200.127	E
107-14-2	Chloroacetonitrile	965.683	
79-46-9	2-Nitropropane	939.738	
513-88-2	1,1-Dichloro-2-Propanone	1000.20	E
108-10-1	4-Methyl-2-Pentanone(MIBK)	1000.54	E
127-18-4	Tetrachloroethene	200.266	E
10061-02-6	trans-1,3-Dichloropropene	199.843	
97-63-2	Ethyl Methacrylate	199.915	
79-00-5	1,1,2-Trichloroethane	200.122	E
124-48-1	Chlorodibromomethane	199.834	
142-28-9	1,3-Dichloropropane	200.110	E
106-93-4	1,2-Dibromoethane	200.001	E
591-78-6	2-Hexanone	1000.08	E
544-10-5	1-Chlorohexane	199.762	
108-90-7	Chlorobenzene	200.088	E
100-41-4	Ethylbenzene	200.070	E
630-20-6	1,1,1,2-Tetrachloroethane	199.950	
108383/106423	m-p-Xylene	400.106	E
95-47-6	o-Xylene	199.876	
100-42-5	Styrene	199.890	

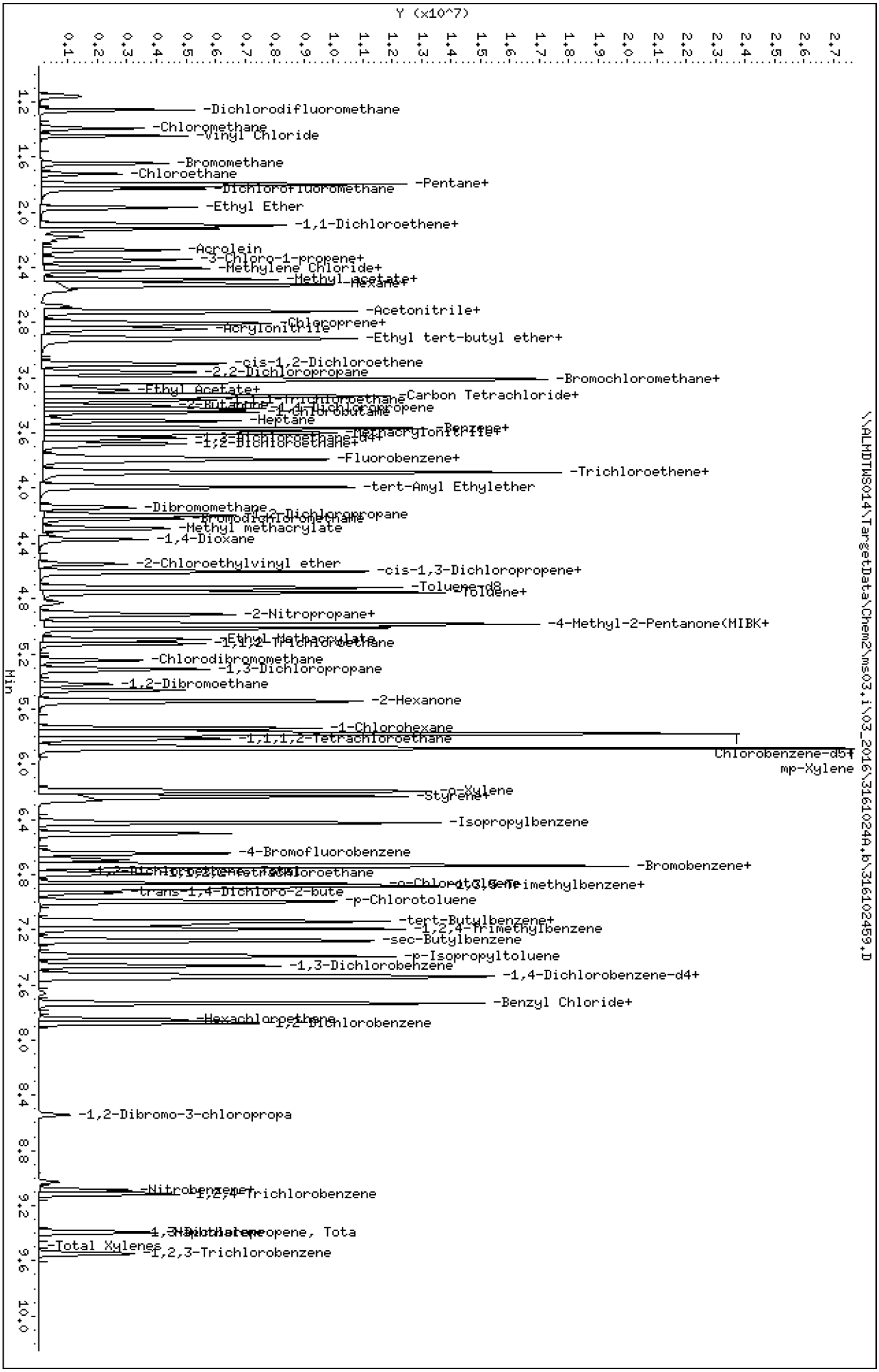
Data File: 316102459.D Page 7
Report Date: 25-Oct-2016 10:12

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1239
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-25-2	Bromoform	199.791	
98-82-8	Isopropylbenzene	199.964	
108-86-1	Bromobenzene	199.983	
103-65-1	n-Propylbenzene	199.982	
79-34-5	1,1,2,2-Tetrachloroethane	200.124	E
95-49-8	o-Chlorotoluene	199.958	
108-67-8	1,3,5-Trimethylbenzene	199.938	
96-18-4	1,2,3-Trichloropropane	200.191	E
110-57-6	trans-1,4-Dichloro-2-butene	199.842	
540-59-0	1,2-Dichloroethene, Total	399.966	
106-43-4	p-Chlorotoluene	199.900	
98-06-6	tert-Butylbenzene	199.938	
76-01-7	Pentachloroethane	199.812	
95-63-6	1,2,4-Trimethylbenzene	199.902	
135-98-8	sec-Butylbenzene	199.873	
99-87-6	p-Isopropyltoluene	199.845	
541-73-1	1,3-Dichlorobenzene	199.899	
106-46-7	1,4-Dichlorobenzene	199.953	
100-44-7	Benzyl Chloride	199.646	
104-51-8	n-Butylbenzene	199.764	
67-72-1	Hexachloroethane	199.586	
95-50-1	1,2-Dichlorobenzene	199.939	
96-12-8	1,2-Dibromo-3-chloropropane	199.950	
98-95-3	Nitrobenzene	2002.92	E
87-68-3	Hexachlorobutadiene	199.837	
120-82-1	1,2,4-Trichlorobenzene	199.807	
91-20-3	Naphthalene	199.764	
87-61-6	1,2,3-Trichlorobenzene	200.065	E
542-75-6	1,3-Dichloropropene, Total	399.668	
1330-20-7	Total Xylenes	599.982	
1868-53-7	Dibromofluoromethane	194.573	
17060-07-0	1,2-Dichloroethane-d4	200.271	E
2037-26-5	Toluene-d8	200.016	E
460-00-4	4-Bromofluorobenzene	199.797	


Y (x10^7)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Acrylonitrile
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Carbon Tetrachloride+
-Heptane
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK+
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-Styrene+
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-trans-1,4-Dichloro-2-bute
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-Total Xylenes
-1,2,3-Trichlorobenzene
Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S9.D
Date : 25-OCT-2016 01:36
Client ID:
Sample Info: 1239;;1;1;6;;;;
Purge Volume: 5.0
Column phase: DB-VRX
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024S9.D
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
Page 8

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 9

Date : 25-OCT-2016 01:36

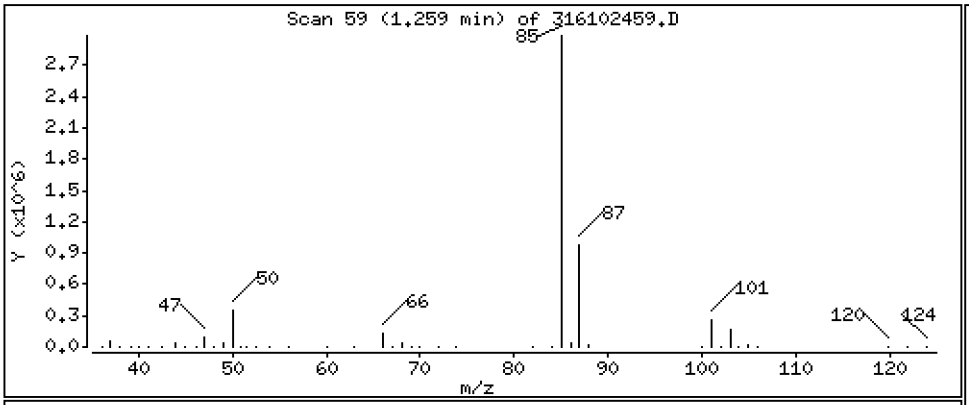
Client ID: Instrument: ms03.i

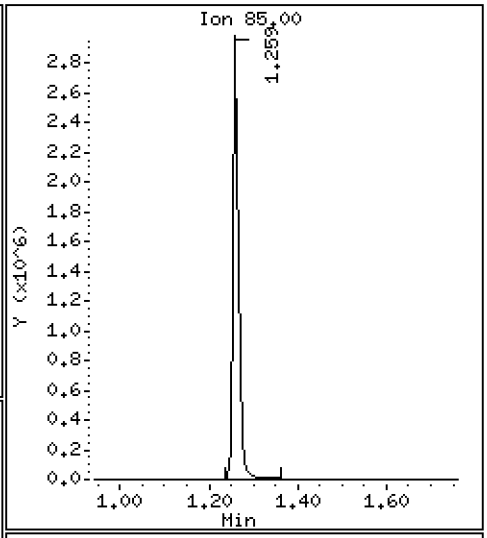
Sample Info: 1239;;1;1;6;;;

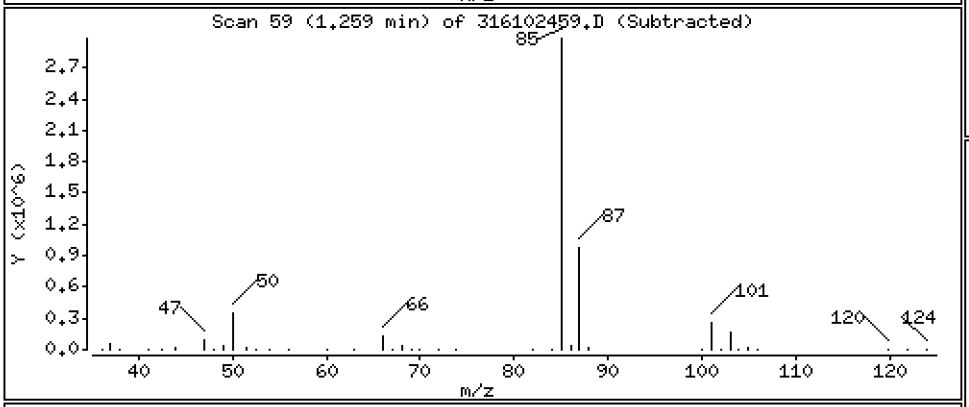
Purge Volume: 5.0 Operator: CJG

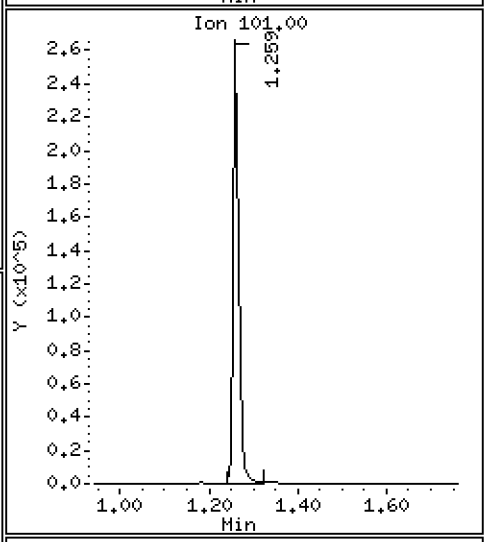
Column phase: DB-VRX Column diameter: 0.25

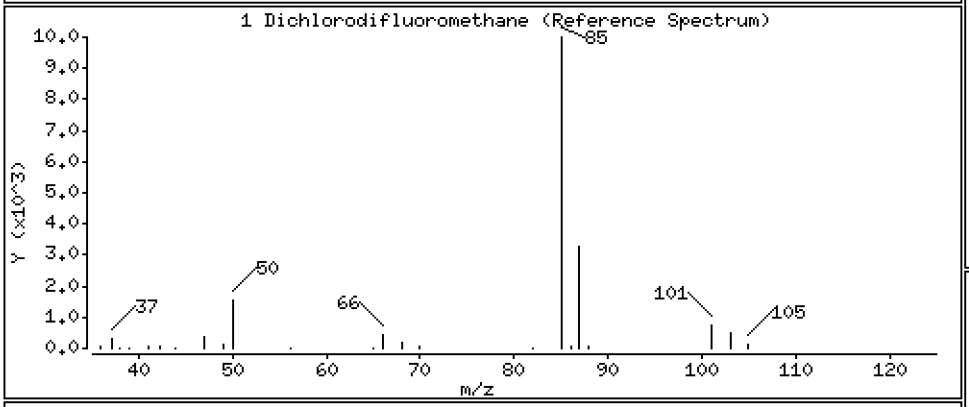
1 Dichlorodifluoromethane Concentration: 200.025 ug/L

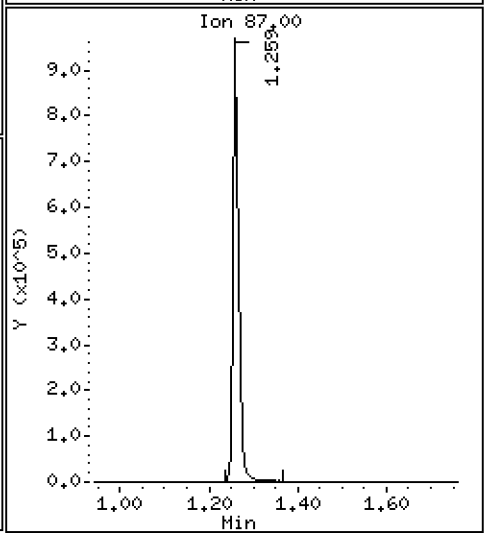


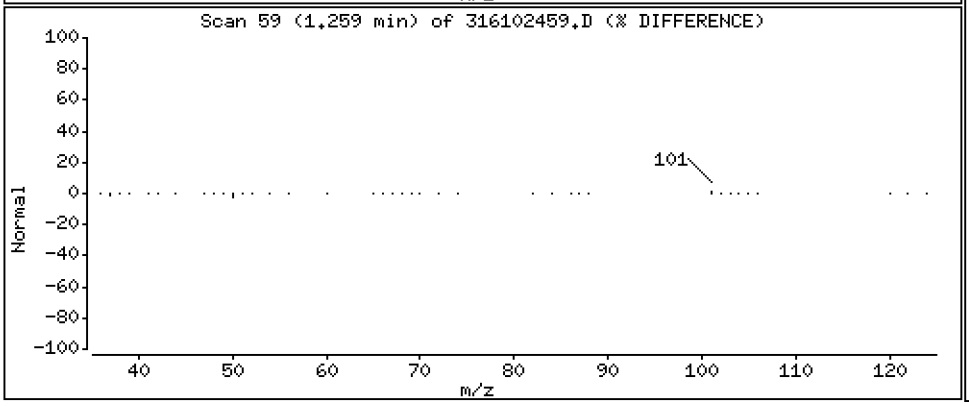












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 10

Date : 25-OCT-2016 01:36

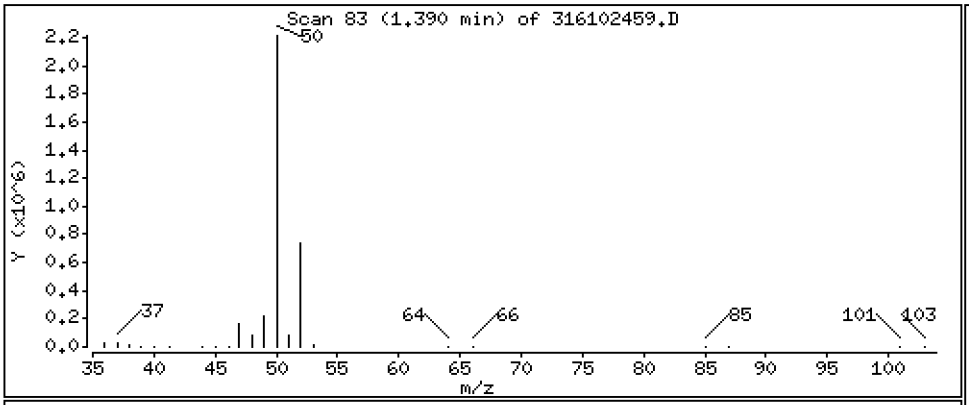
Client ID: Instrument: ms03.i

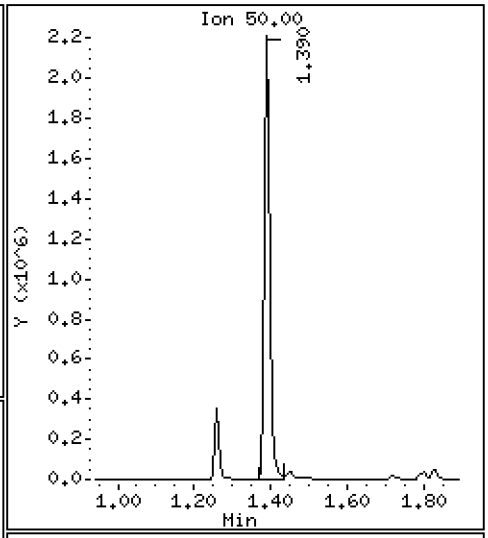
Sample Info: 1239;;1;1;6;;;

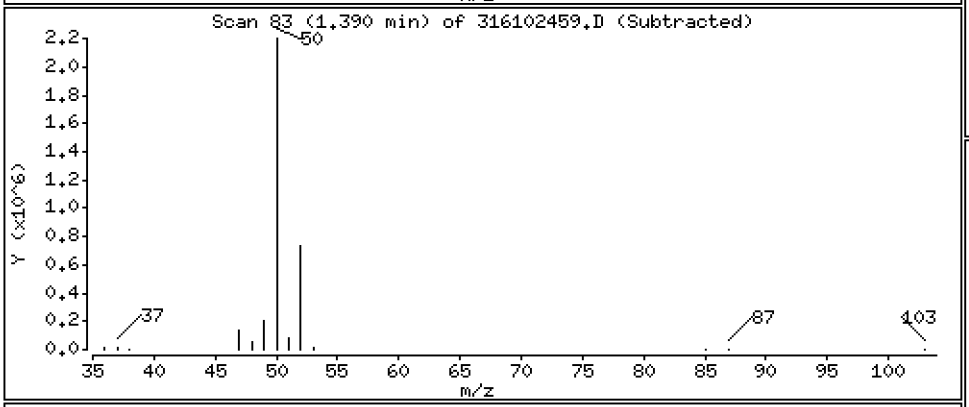
Purge Volume: 5.0 Operator: CJG

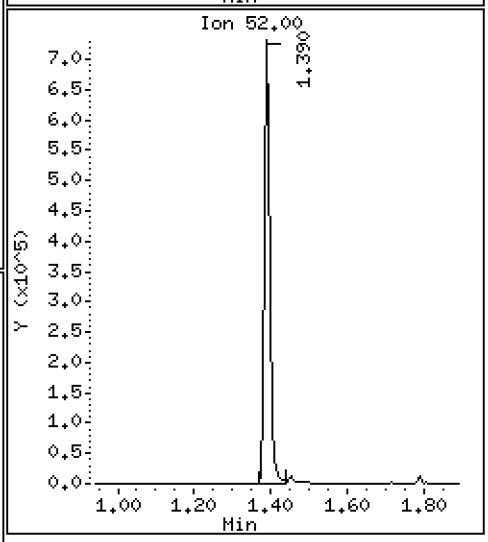
Column phase: DB-VRX Column diameter: 0.25

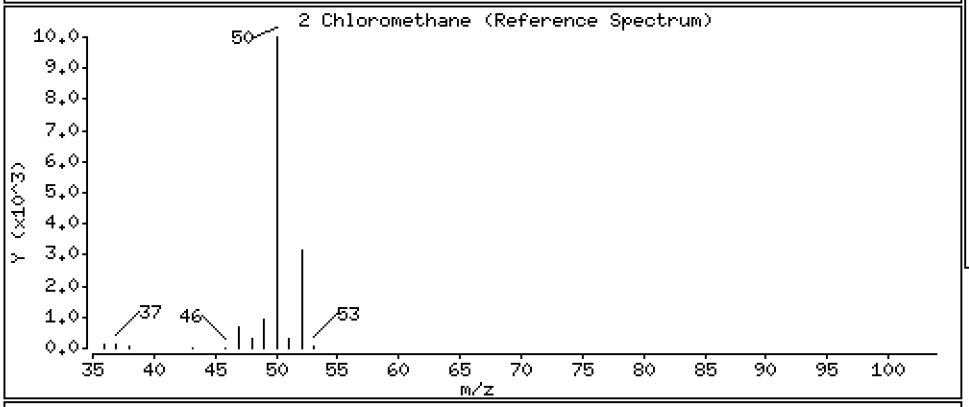
2 Chloromethane Concentration: 200.020 ug/L

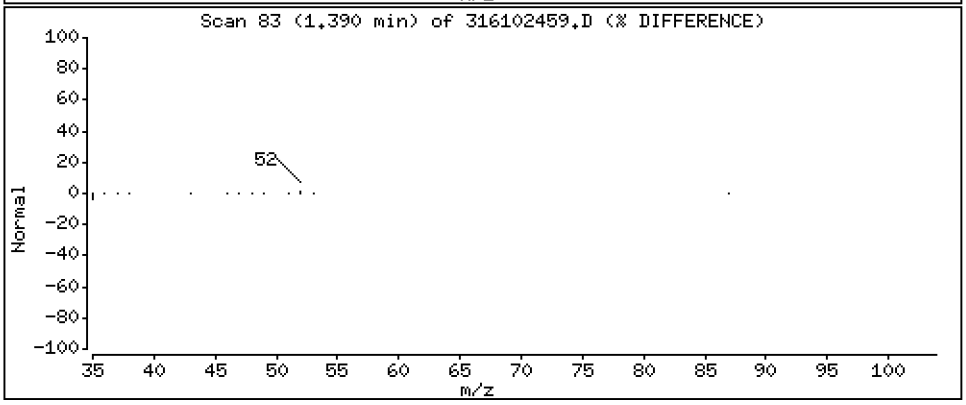












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 11

Date : 25-OCT-2016 01:36

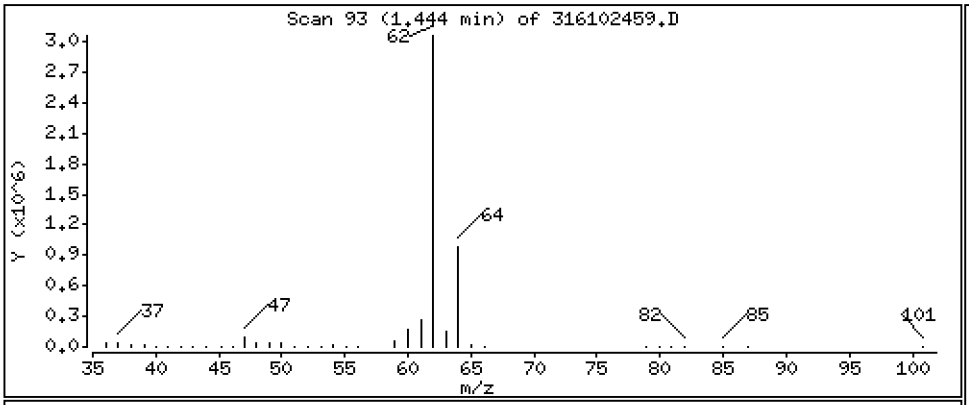
Client ID: Instrument: ms03.i

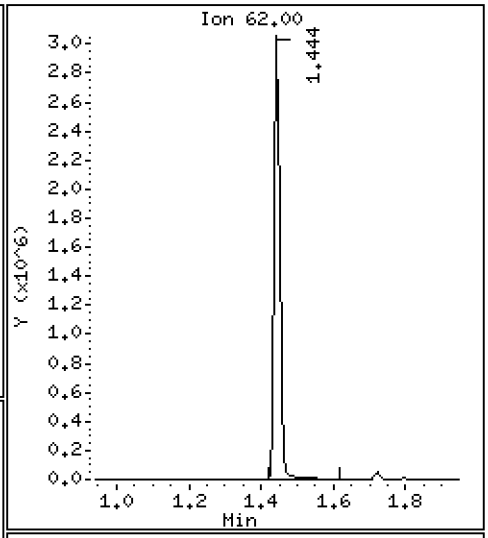
Sample Info: 1239;;1;1;6;;;

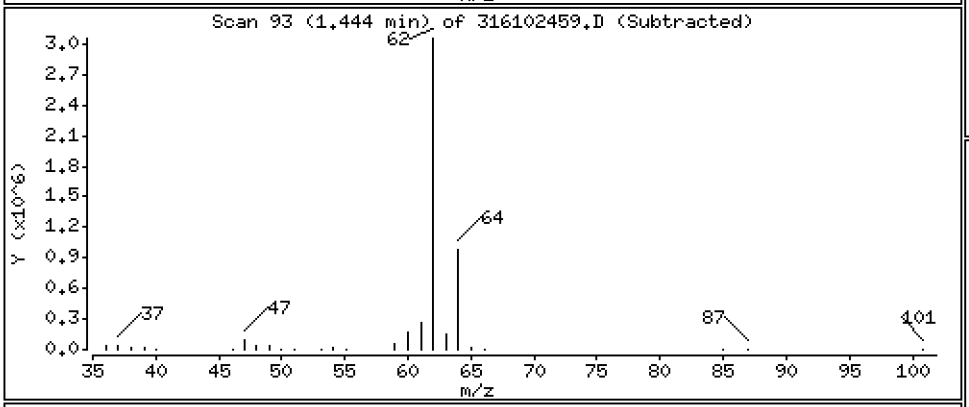
Purge Volume: 5.0 Operator: CJG

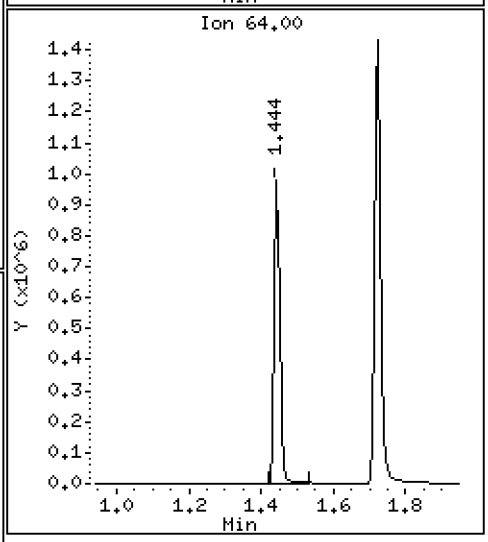
Column phase: DB-VRX Column diameter: 0.25

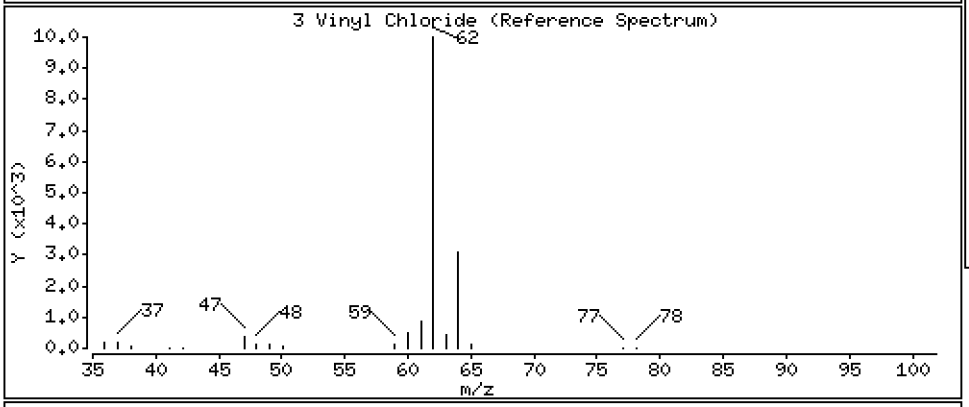
3 Vinyl Chloride Concentration: 199.986 ug/L

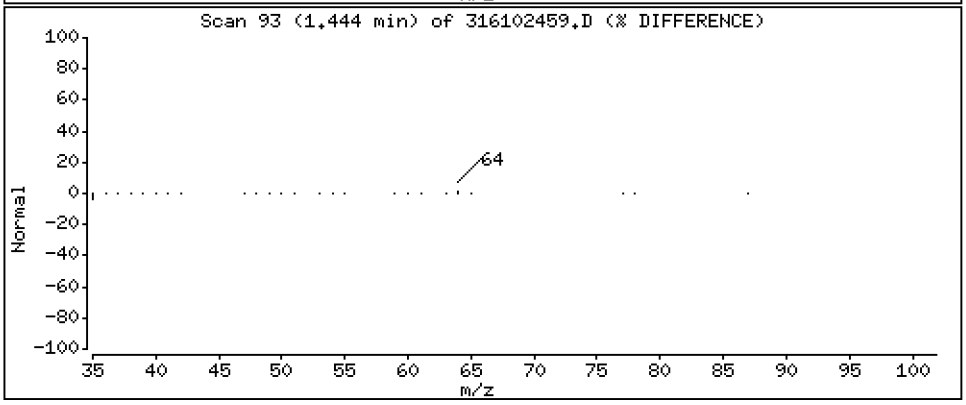












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 12

Date : 25-OCT-2016 01:36

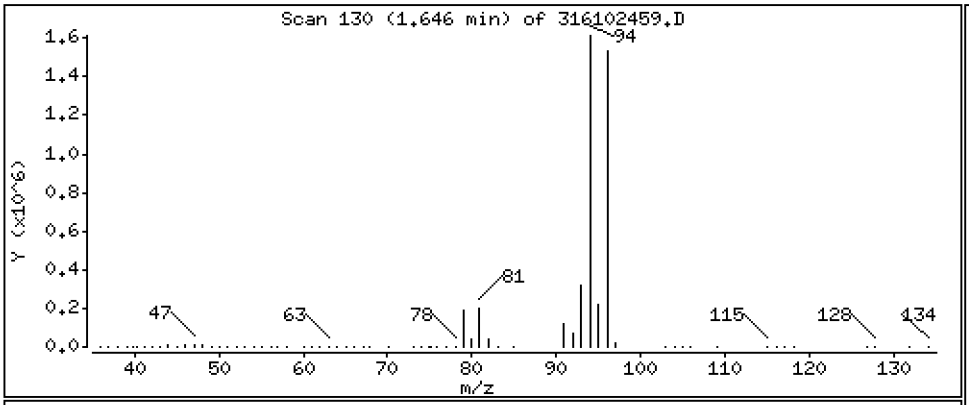
Client ID: Instrument: ms03.i

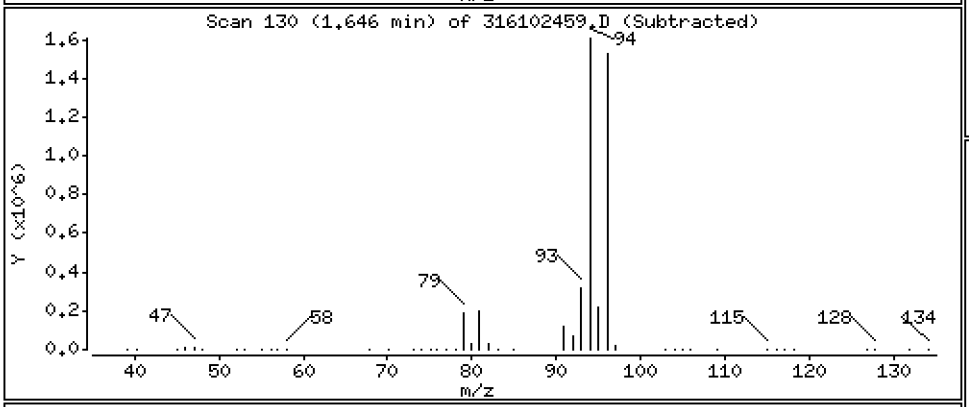
Sample Info: 1239;;1;1;6;;;

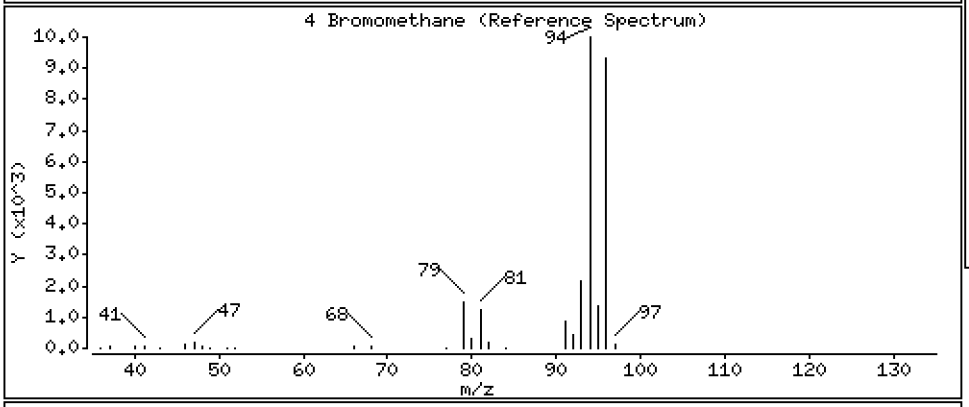
Purge Volume: 5.0 Operator: CJG

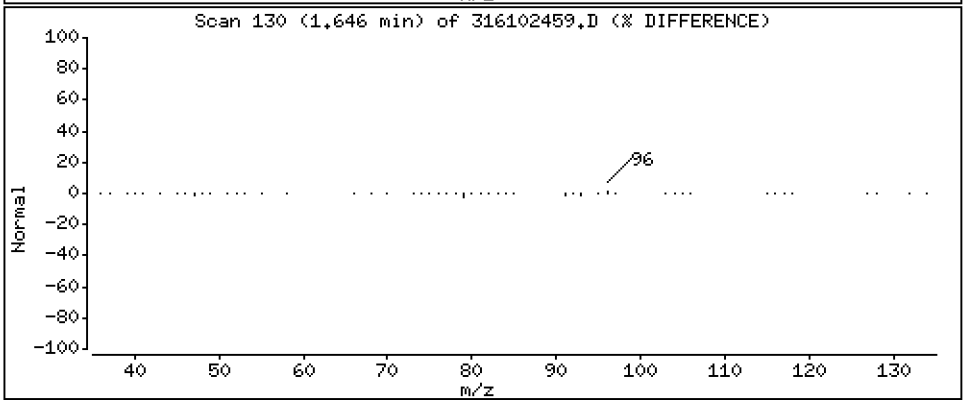
Column phase: DB-VRX Column diameter: 0.25

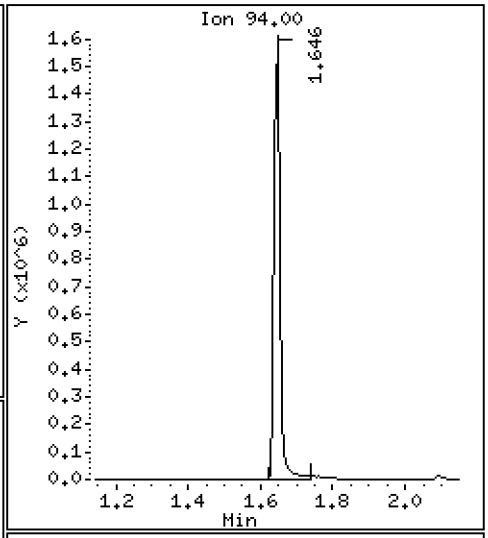
4 Bromomethane Concentration: 199.801 ug/L

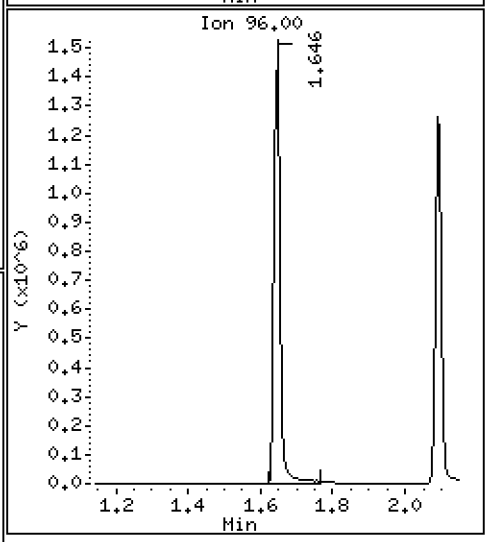












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 13

Date : 25-OCT-2016 01:36

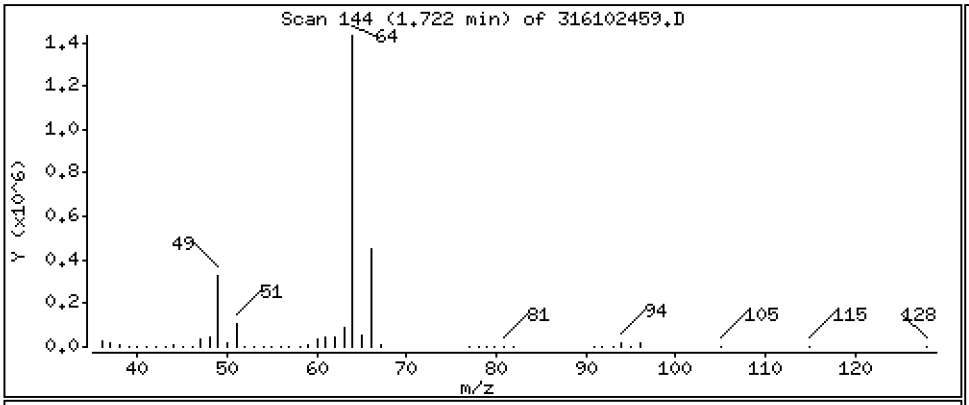
Client ID: Instrument: ms03.i

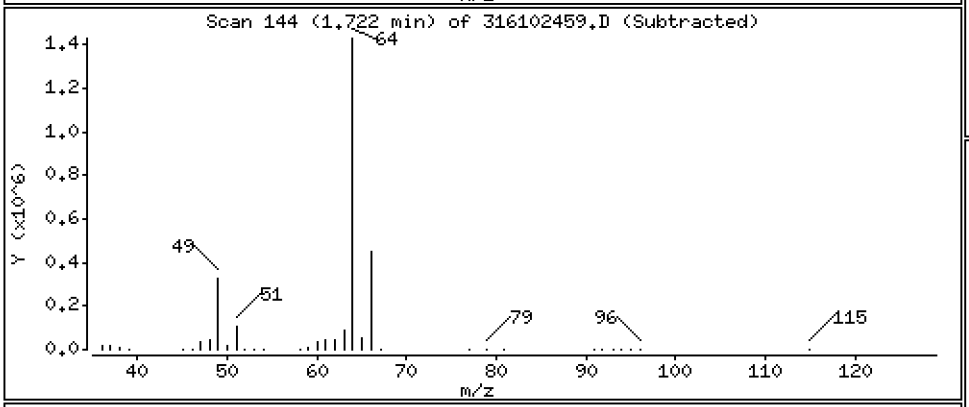
Sample Info: 1239;;1;1;6;;;

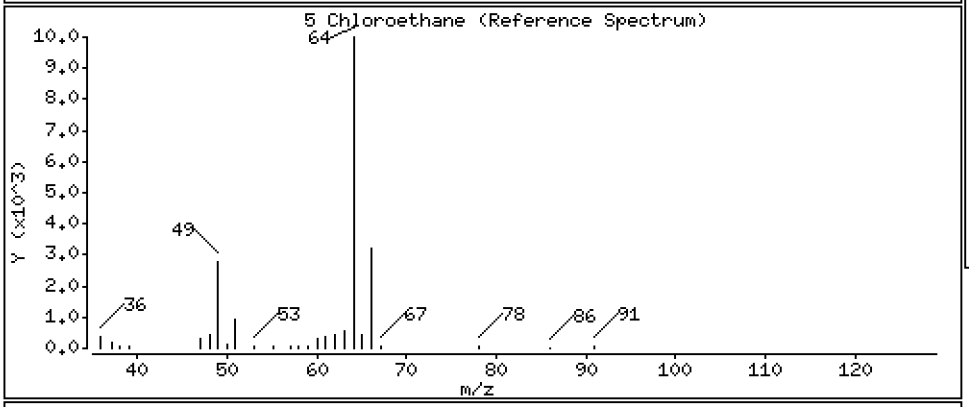
Purge Volume: 5.0 Operator: CJG

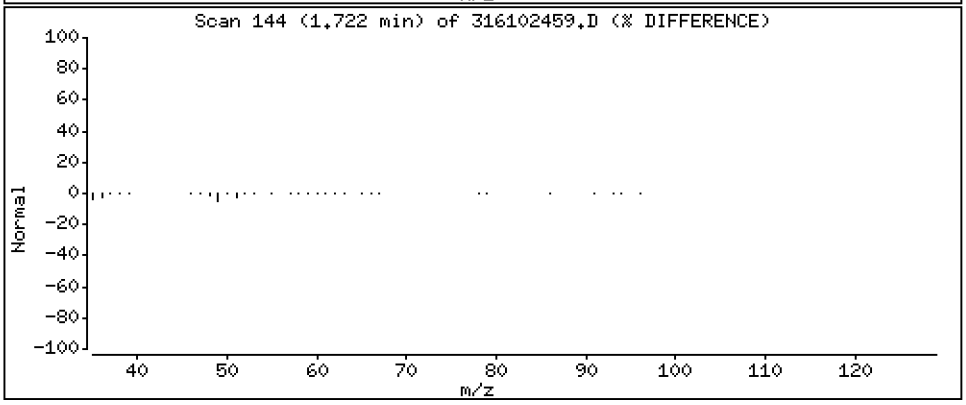
Column phase: DB-VRX Column diameter: 0.25

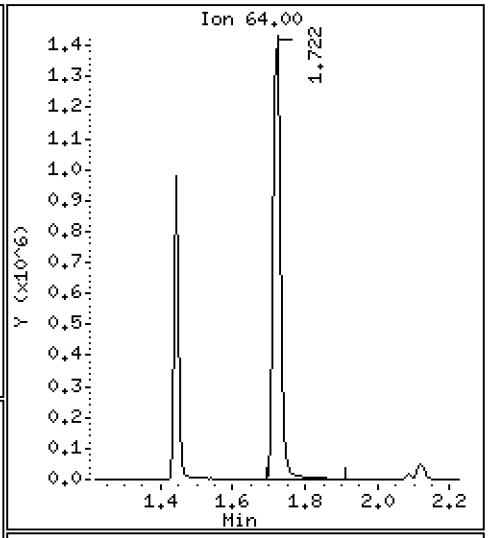
5 Chloroethane Concentration: 199.997 ug/L

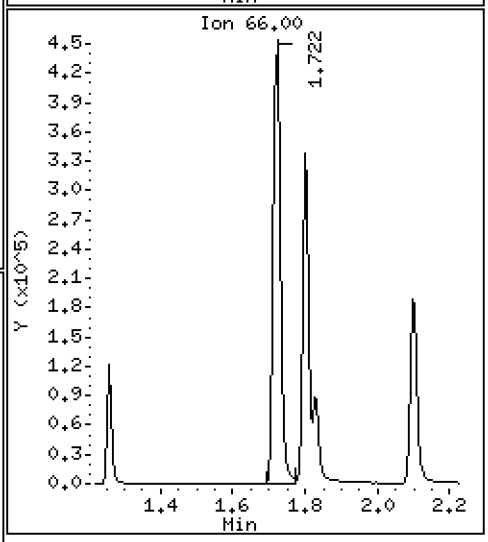












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 14

Date : 25-OCT-2016 01:36

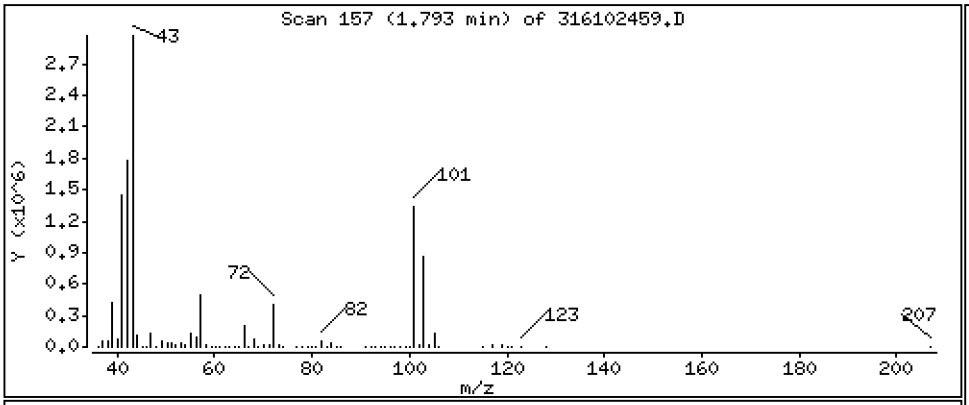
Client ID: Instrument: ms03.i

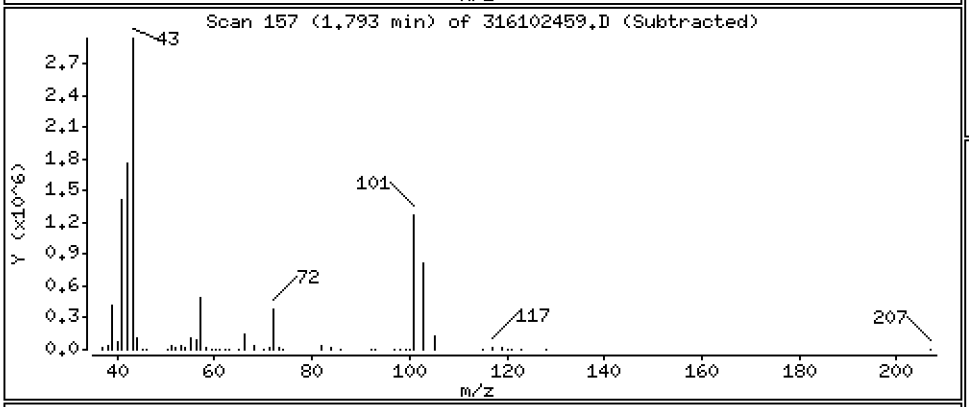
Sample Info: 1239;;1;1;6;;;

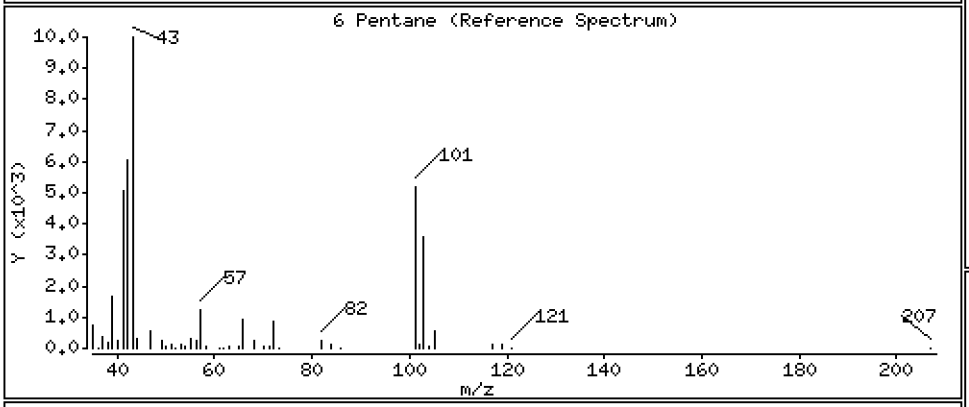
Purge Volume: 5.0 Operator: CJG

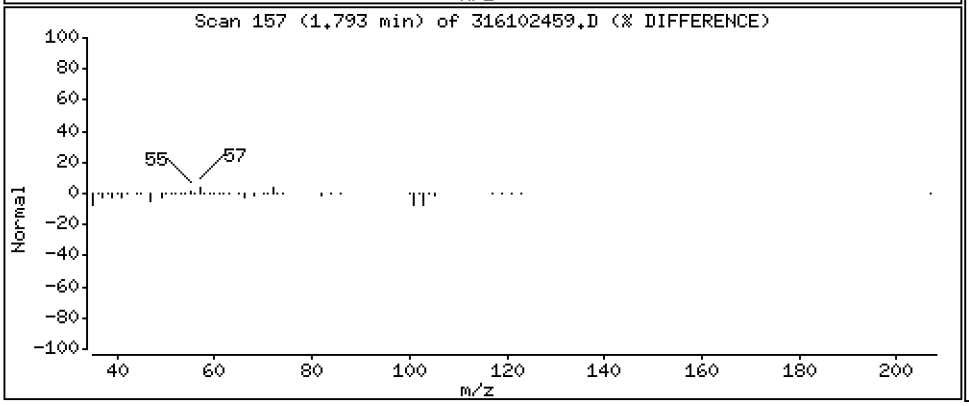
Column phase: DB-VRX Column diameter: 0.25

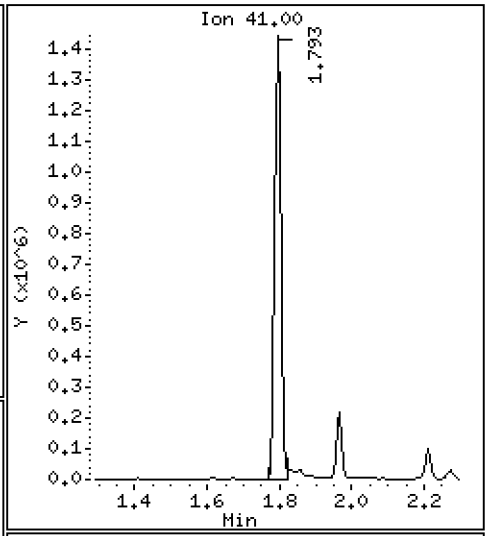
6 Pentane Concentration: 200.202 ug/L

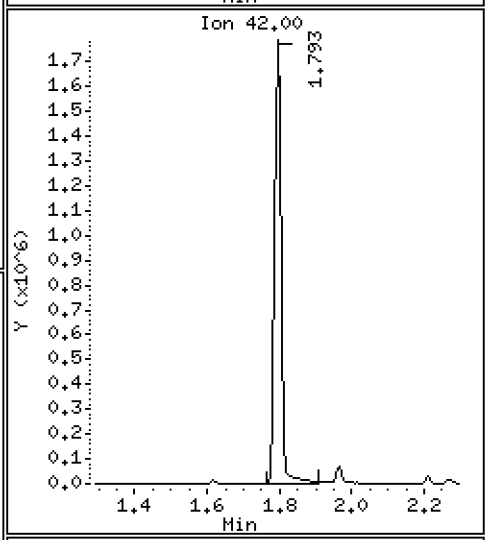


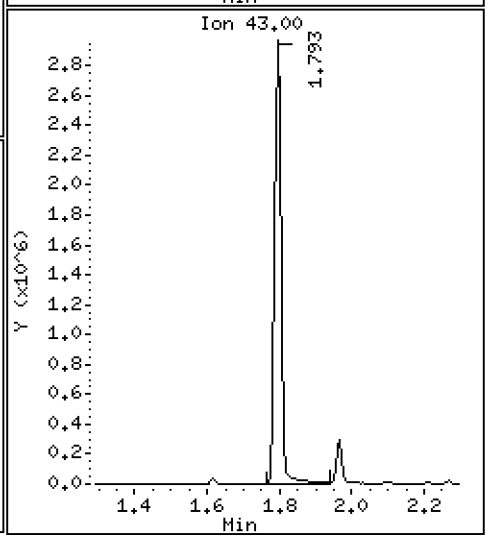












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 15

Date : 25-OCT-2016 01:36

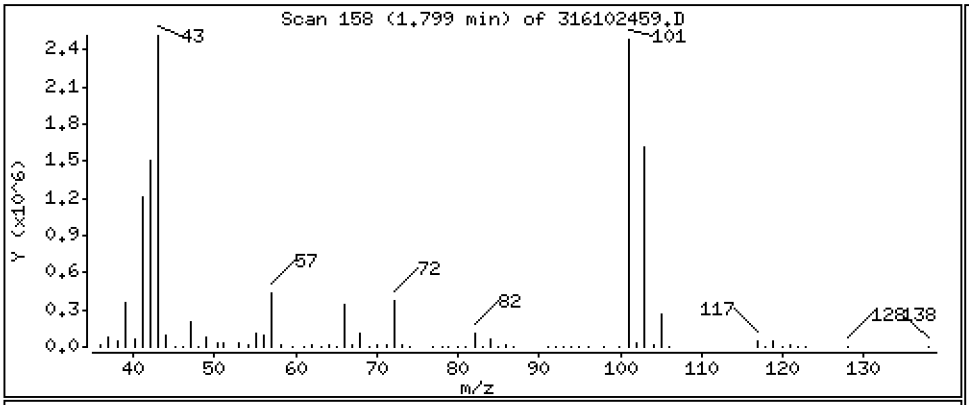
Client ID: Instrument: ms03.i

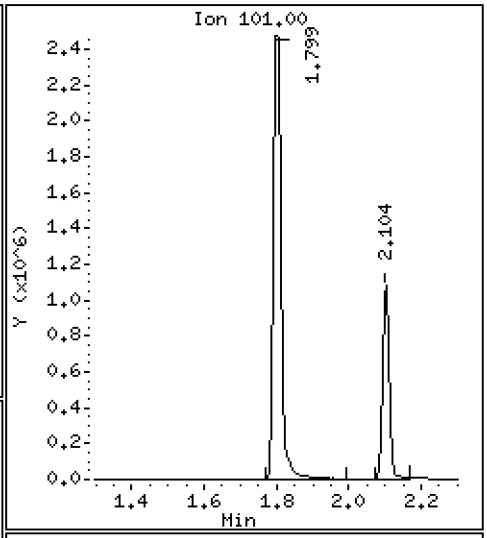
Sample Info: 1239;;1;1;6;;;

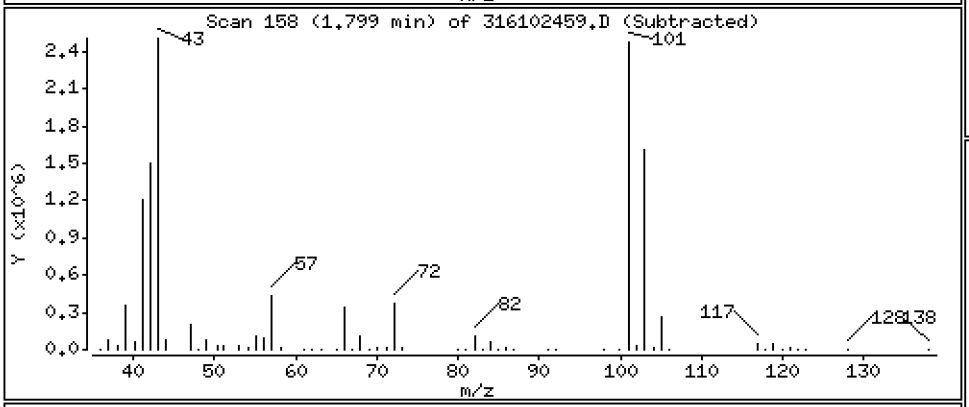
Purge Volume: 5.0 Operator: CJG

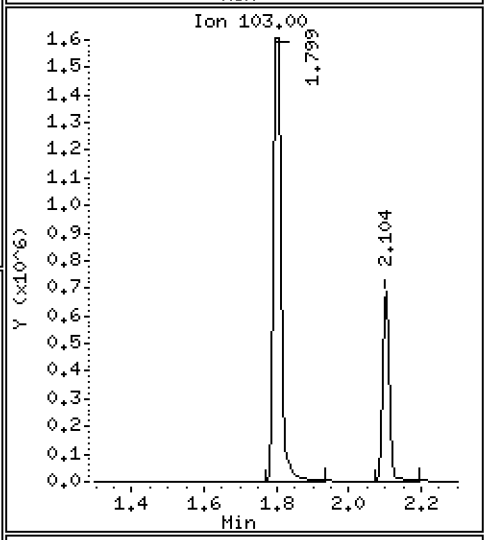
Column phase: DB-VRX Column diameter: 0.25

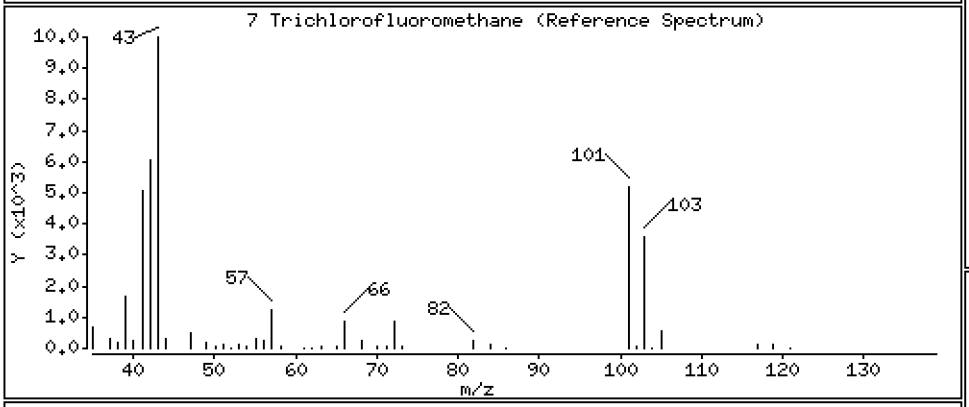
7 Trichlorofluoromethane Concentration: 200.152 ug/L

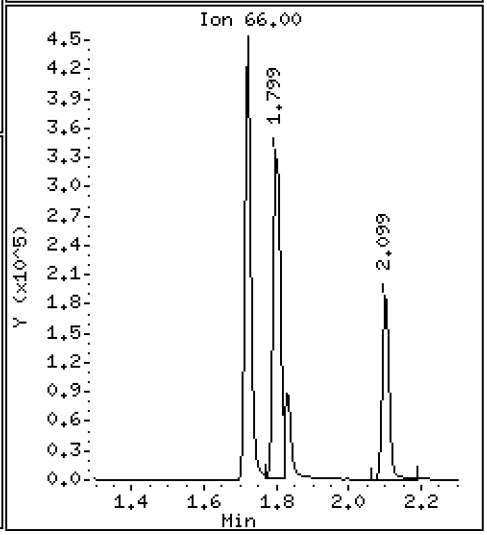


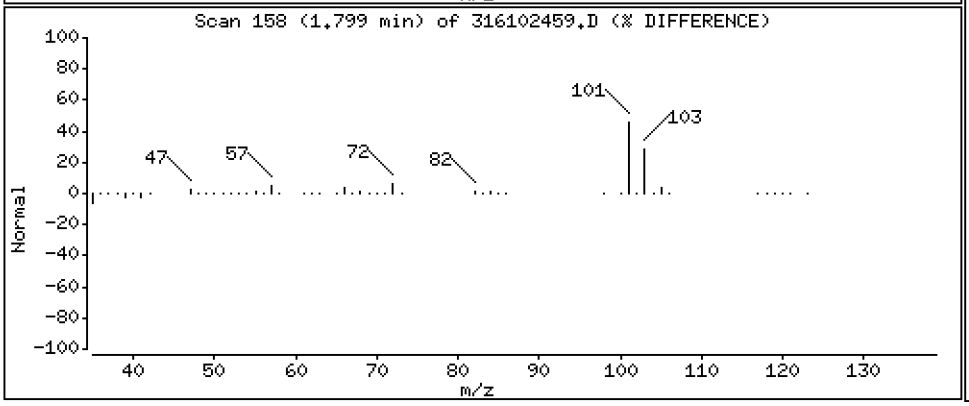












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 16

Date : 25-OCT-2016 01:36

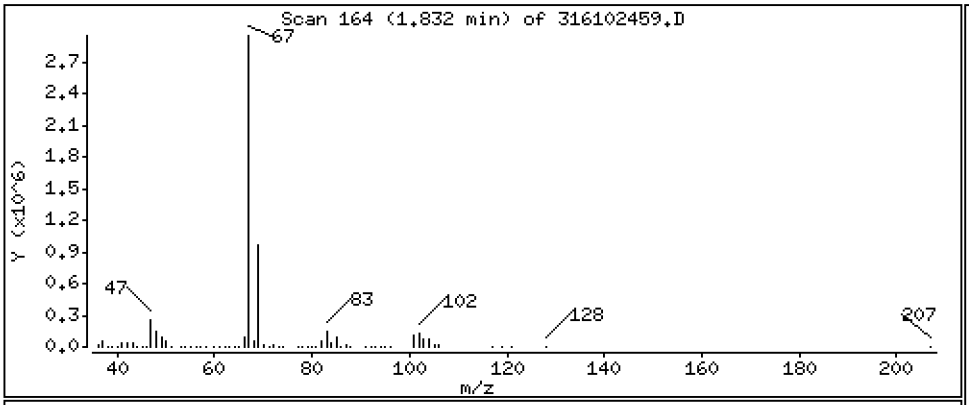
Client ID: Instrument: ms03.i

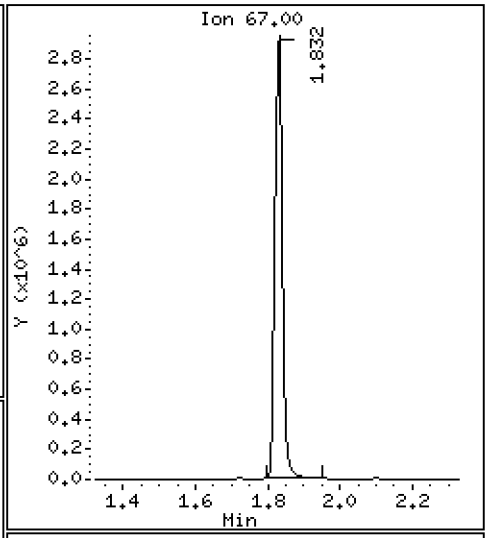
Sample Info: 1239;;1;1;6;;;

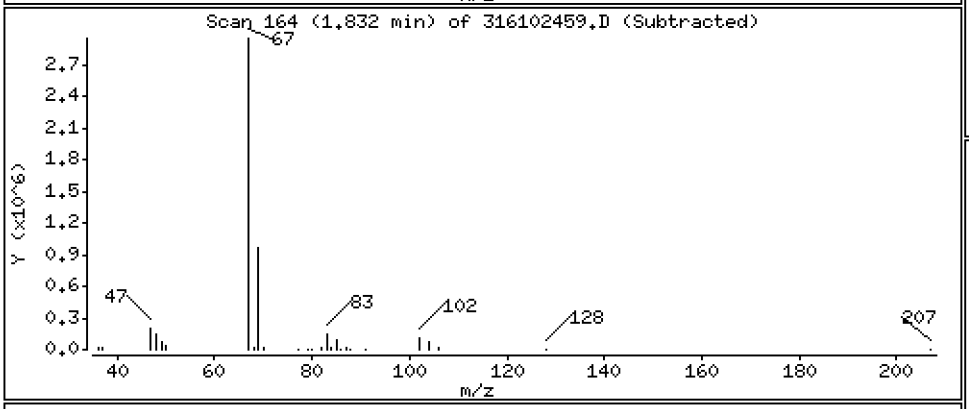
Purge Volume: 5.0 Operator: CJG

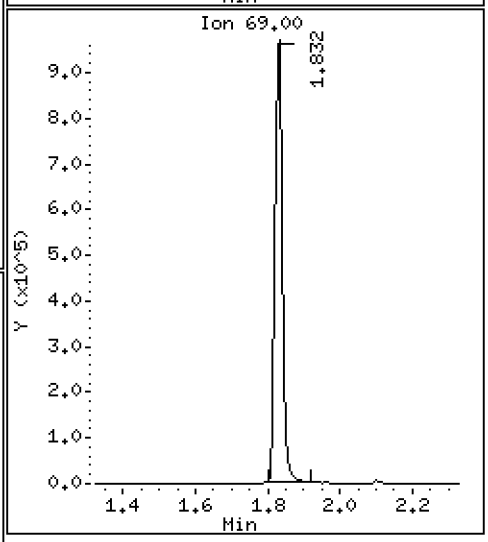
Column phase: DB-VRX Column diameter: 0.25

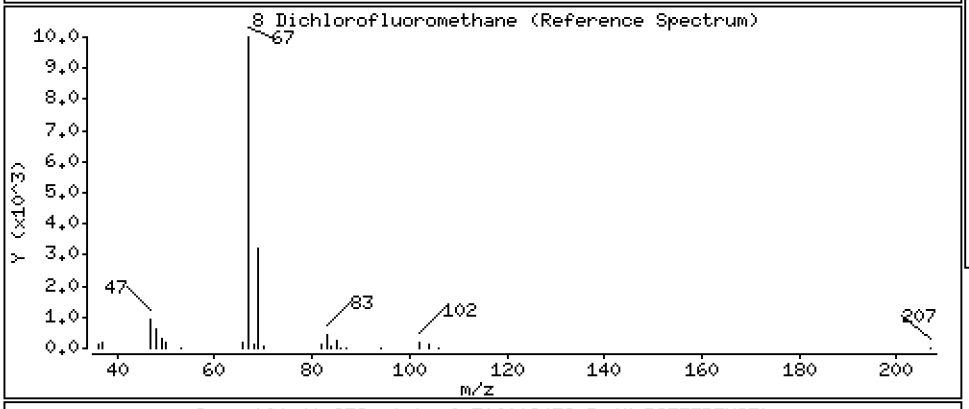
8 Dichlorofluoromethane Concentration: 200.011 ug/L

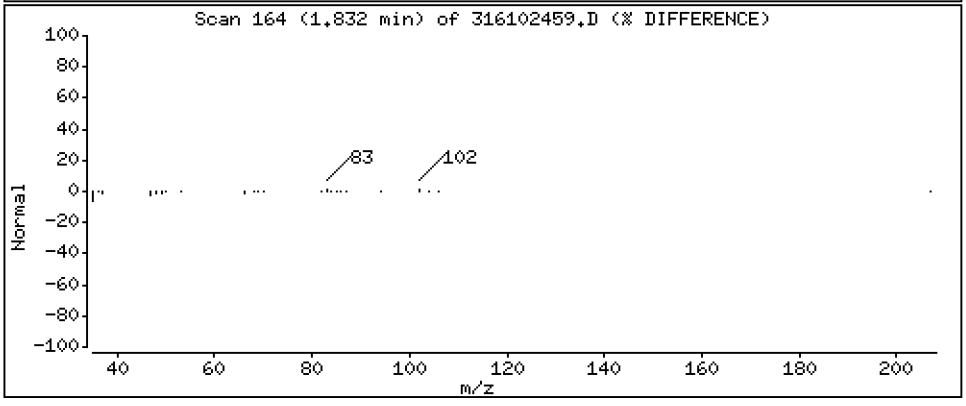












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 17

Date : 25-OCT-2016 01:36

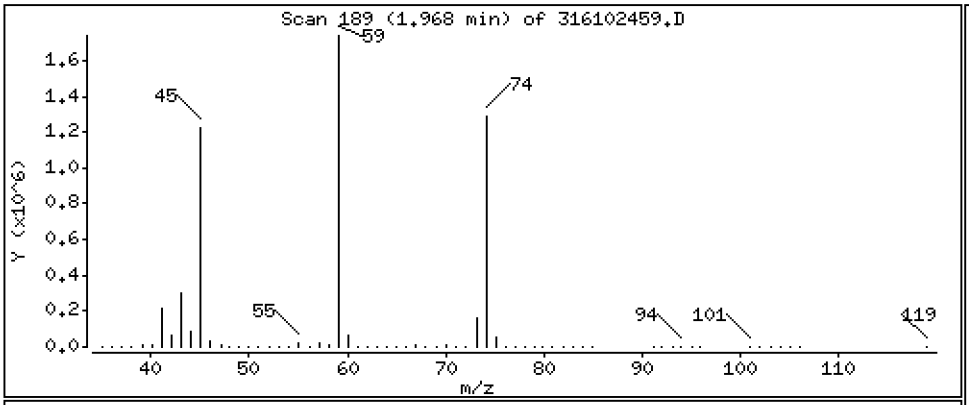
Client ID: Instrument: ms03.i

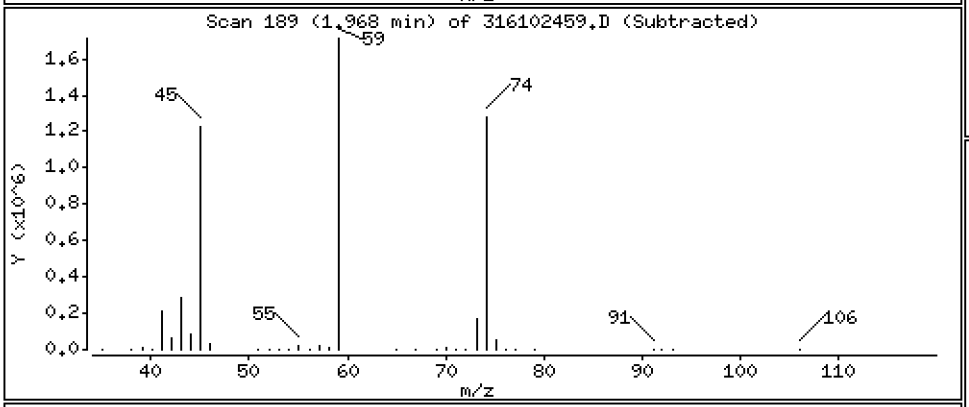
Sample Info: 1239;;1;1;6;;;

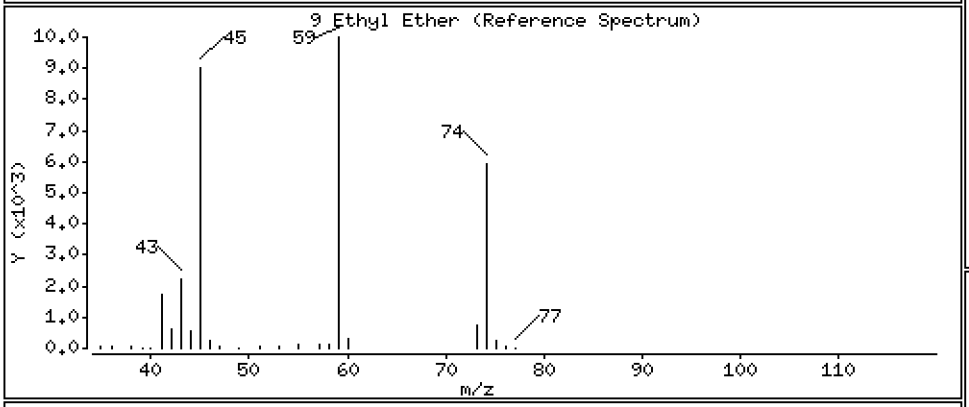
Purge Volume: 5.0 Operator: CJG

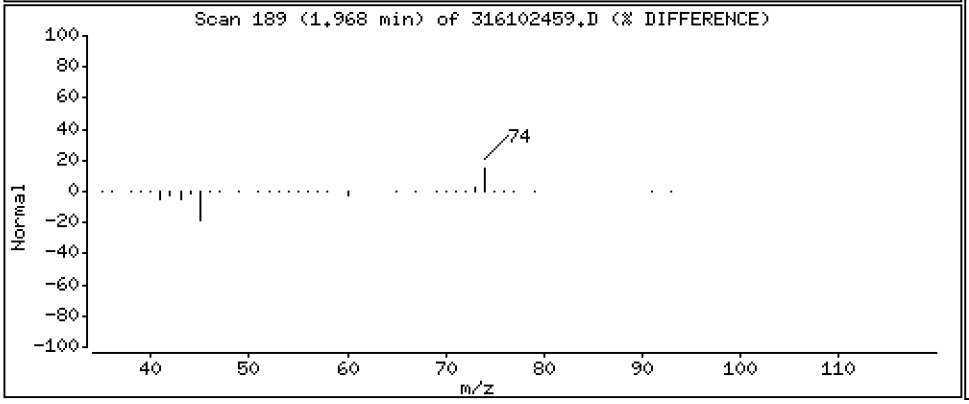
Column phase: DB-VRX Column diameter: 0.25

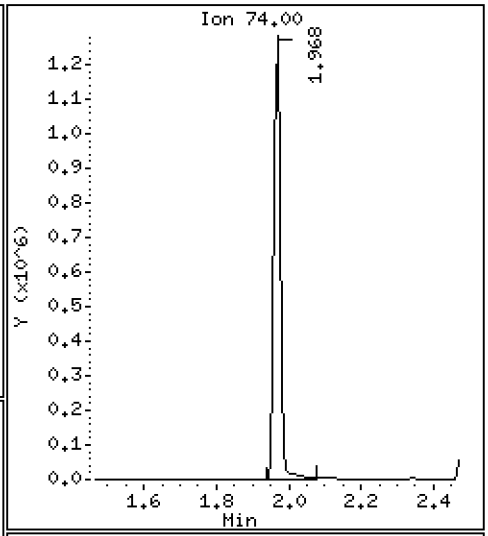
9 Ethyl Ether Concentration: 200.245 ug/L

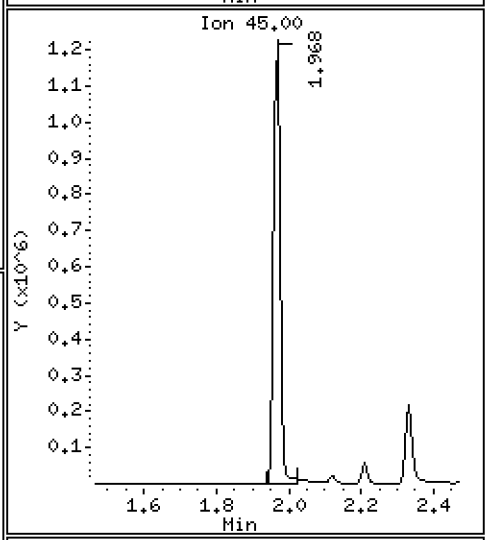


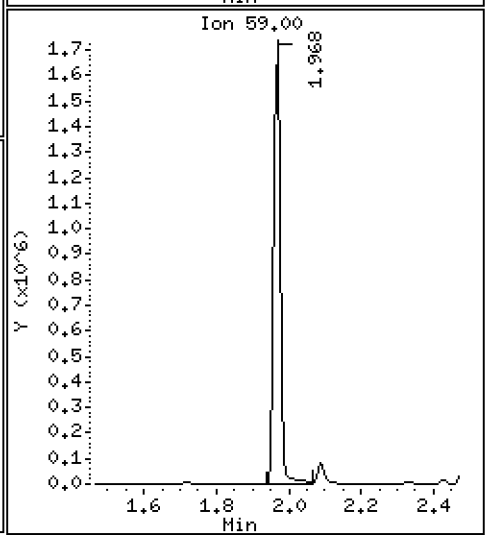












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 18

Date : 25-OCT-2016 01:36

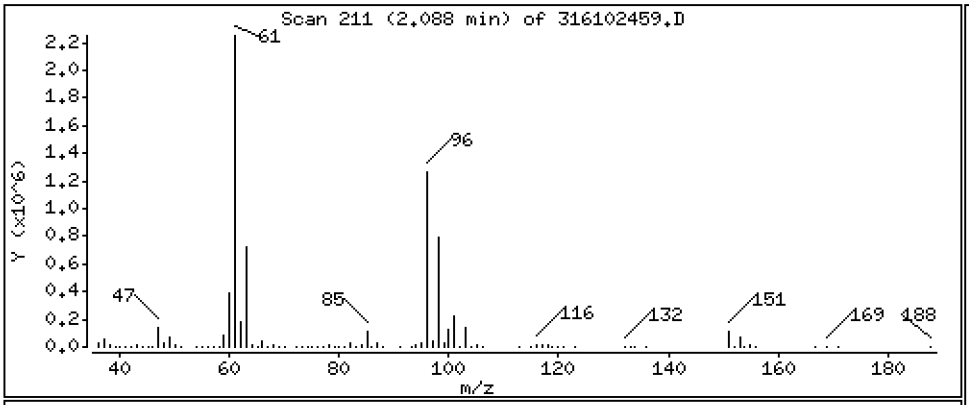
Client ID: Instrument: ms03.i

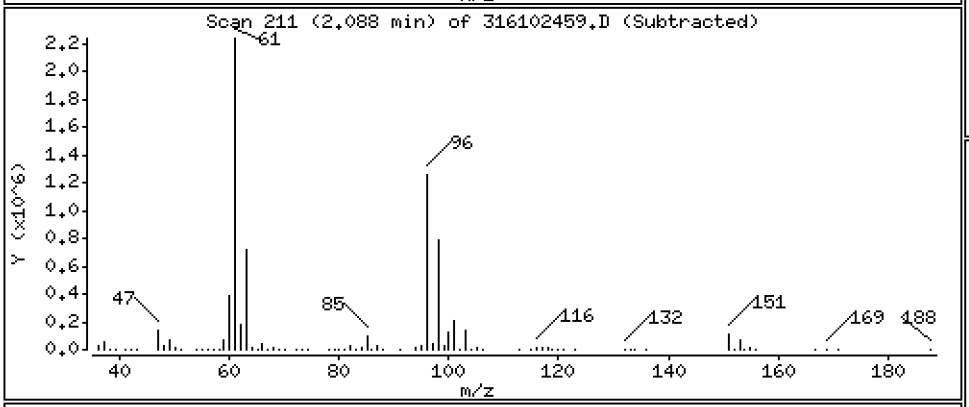
Sample Info: 1239;;1;1;6;;;

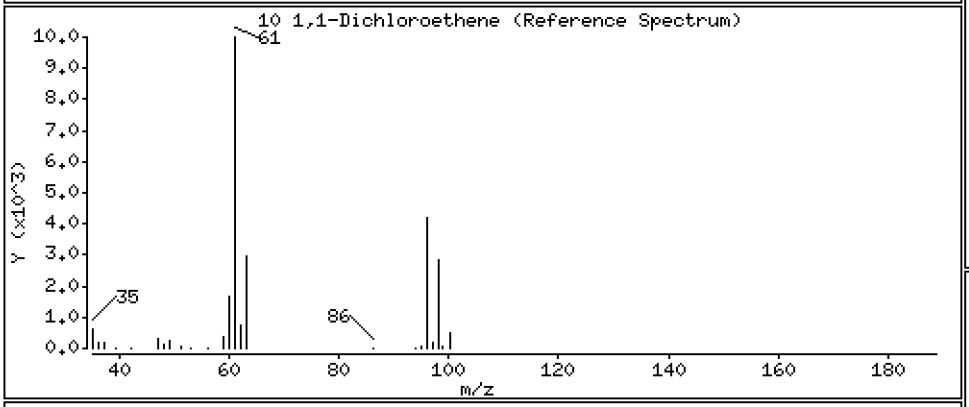
Purge Volume: 5.0 Operator: CJG

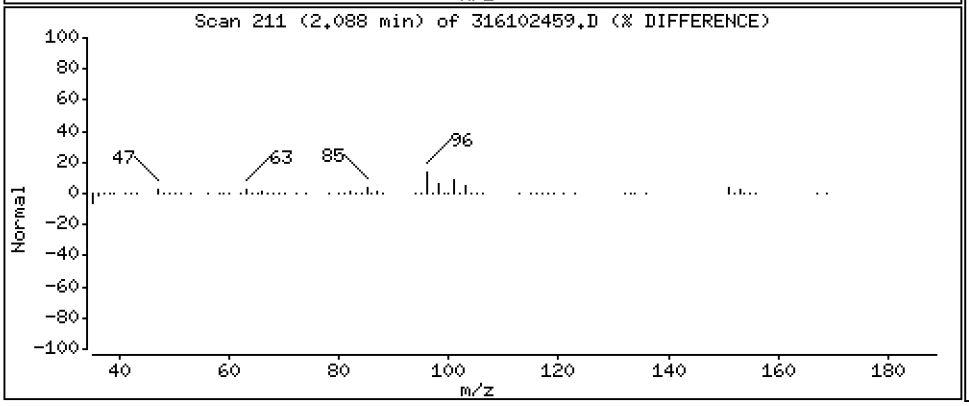
Column phase: DB-VRX Column diameter: 0.25

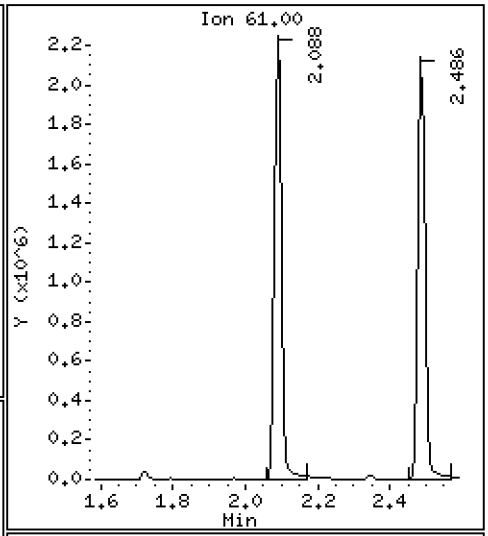
10 1,1-Dichloroethene Concentration: 200.031 ug/L

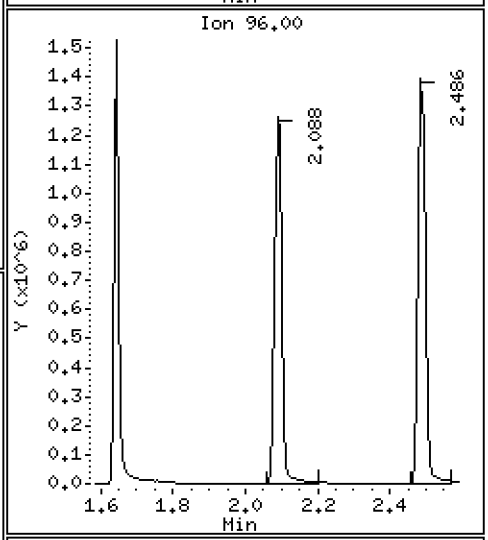


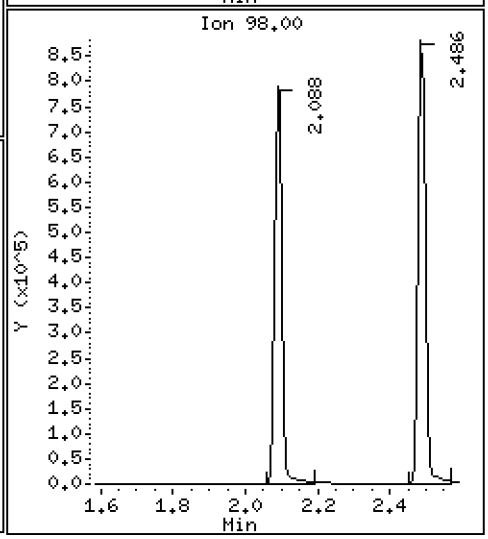












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 19

Date : 25-OCT-2016 01:36

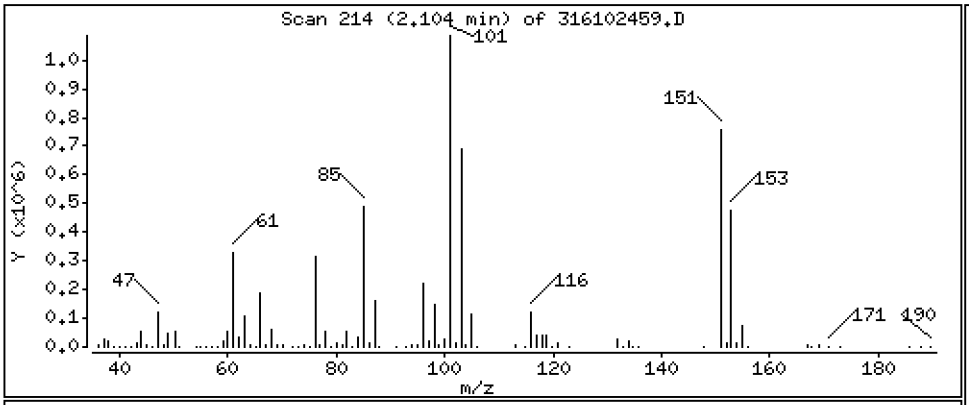
Client ID: Instrument: ms03.i

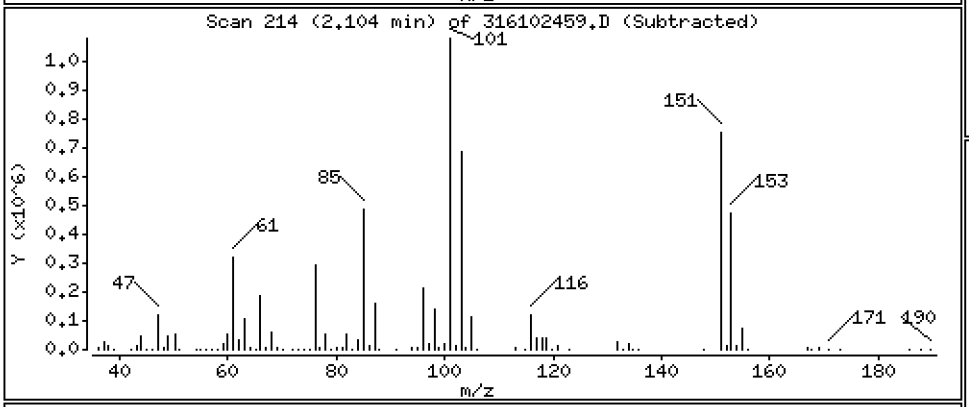
Sample Info: 1239;;1;1;6;;;

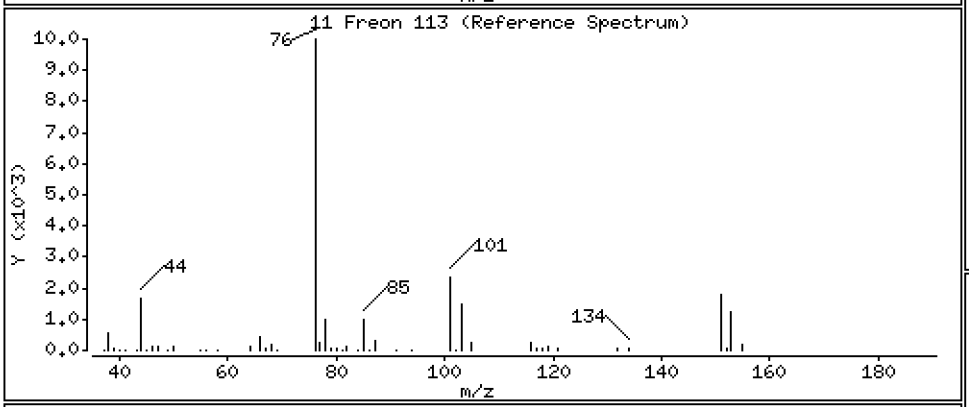
Purge Volume: 5.0 Operator: CJG

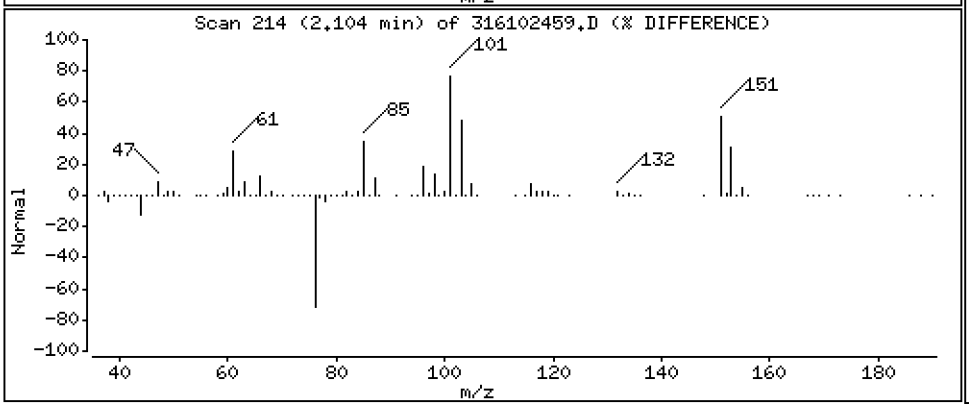
Column phase: DB-VRX Column diameter: 0.25

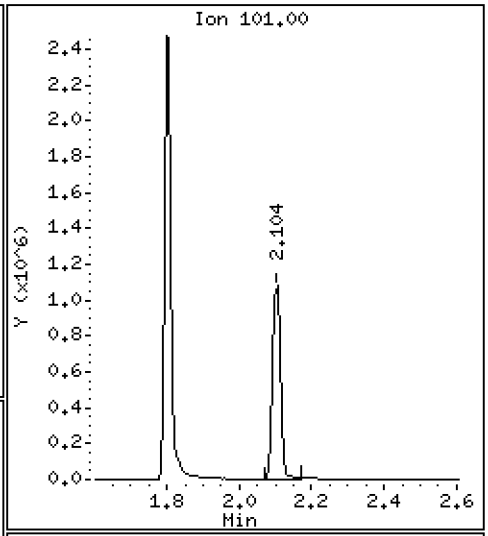
11 Freon 113 Concentration: 200.150 ug/L

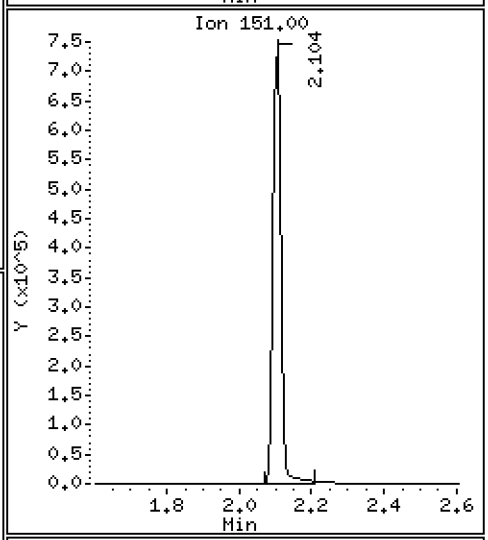


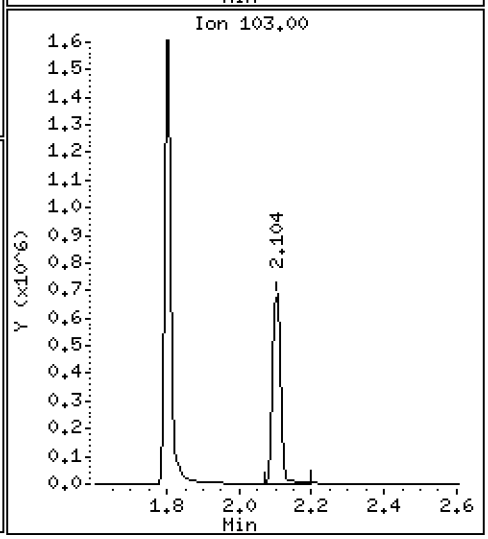












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 20

Date : 25-OCT-2016 01:36

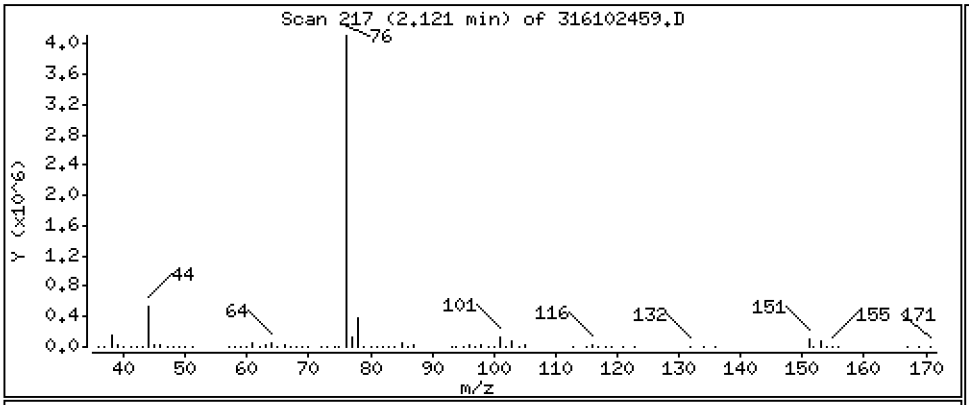
Client ID: Instrument: ms03.i

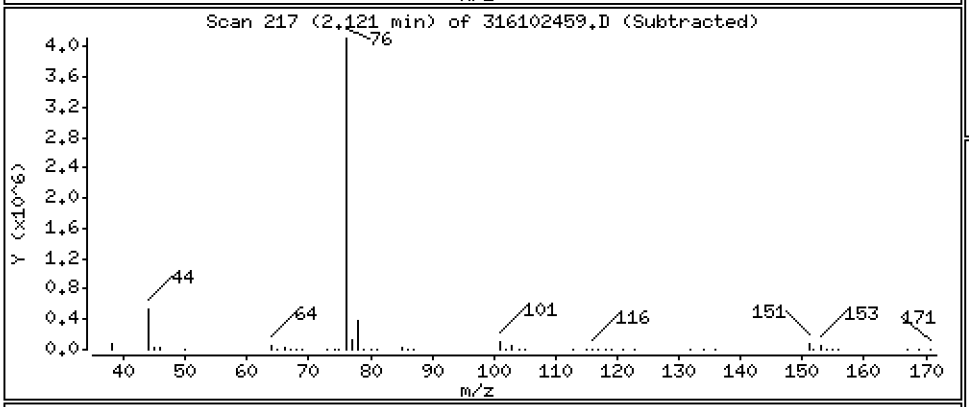
Sample Info: 1239;;1;1;6;;;

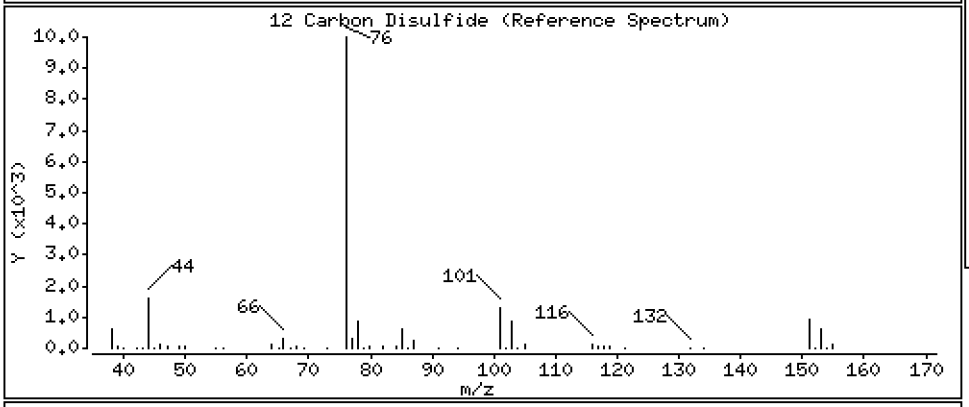
Purge Volume: 5.0 Operator: CJG

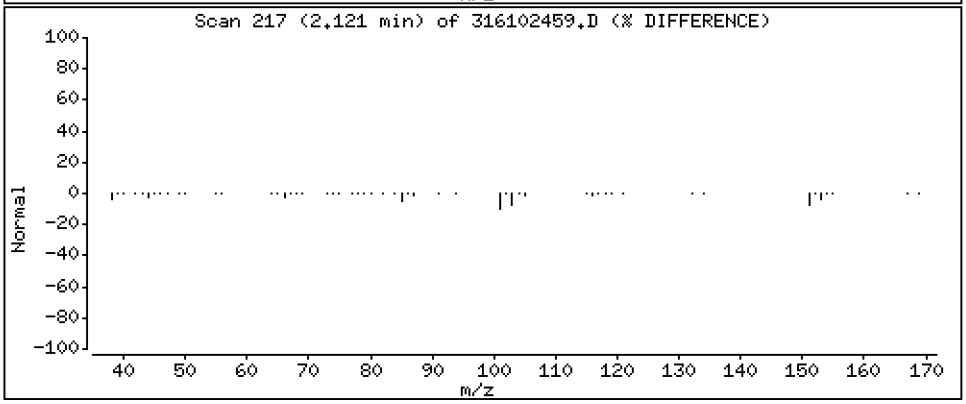
Column phase: DB-VRX Column diameter: 0.25

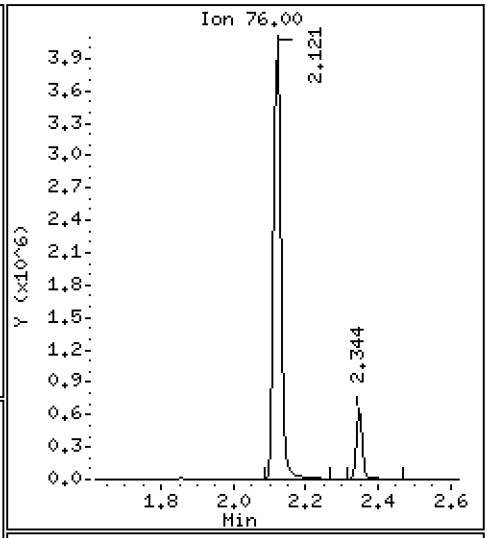
12 Carbon Disulfide Concentration: 199.764 ug/L

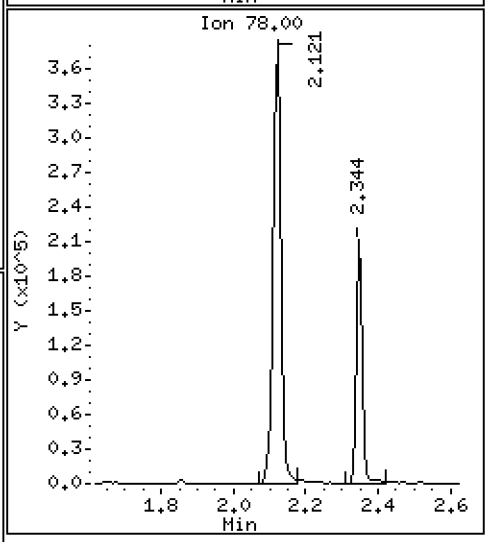












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 21

Date : 25-OCT-2016 01:36

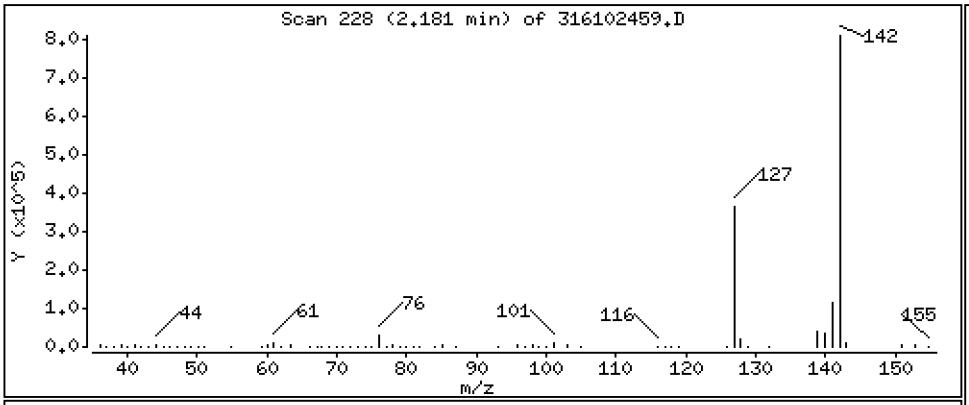
Client ID: Instrument: ms03.i

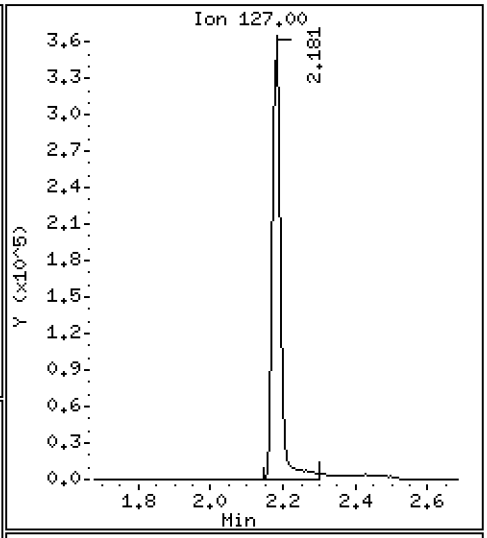
Sample Info: 1239;;1;1;6;;;

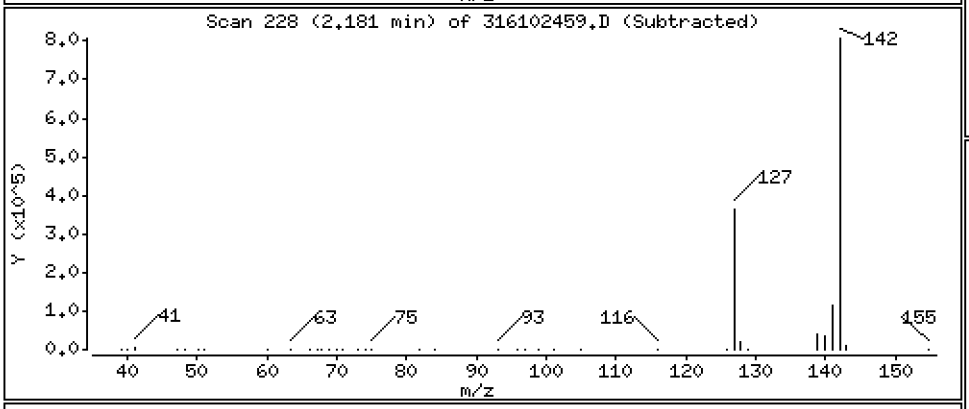
Purge Volume: 5.0 Operator: CJG

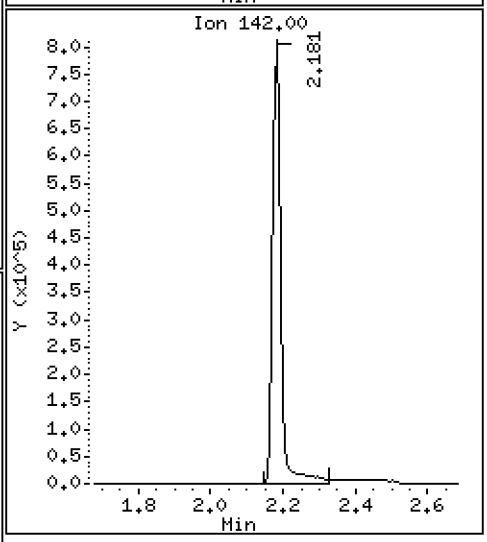
Column phase: DB-VRX Column diameter: 0.25

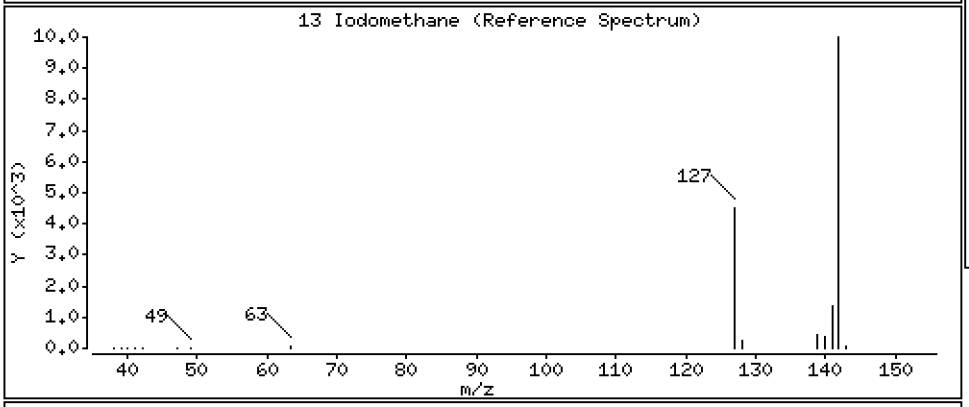
13 Iodomethane Concentration: 199.511 ug/L

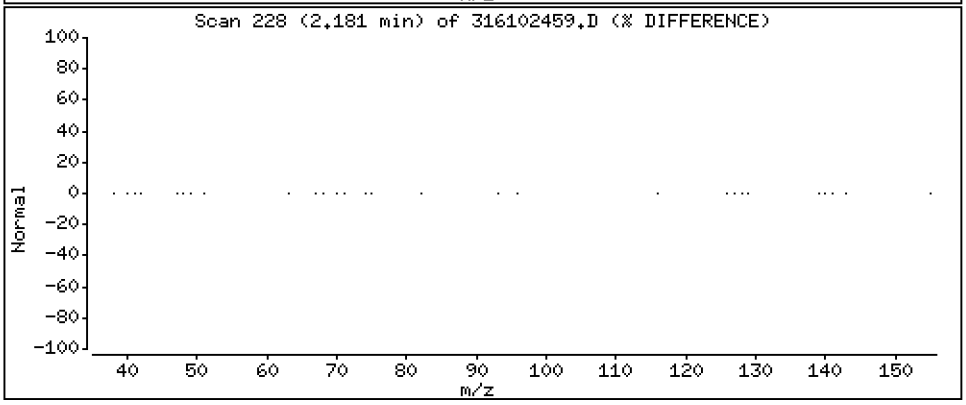












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 22

Date : 25-OCT-2016 01:36

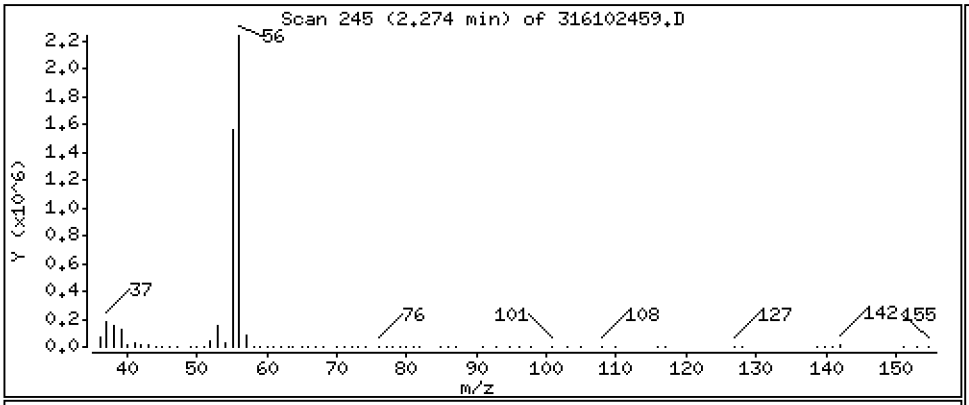
Client ID: Instrument: ms03.i

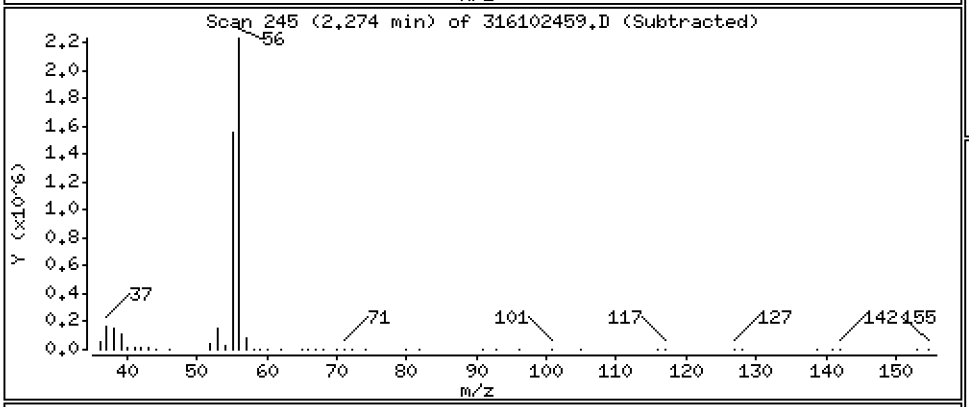
Sample Info: 1239;;1;1;6;;;

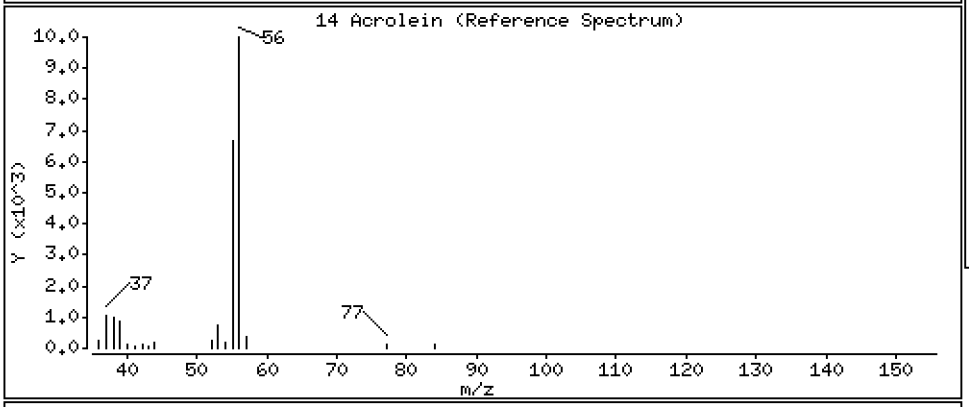
Purge Volume: 5.0 Operator: CJG

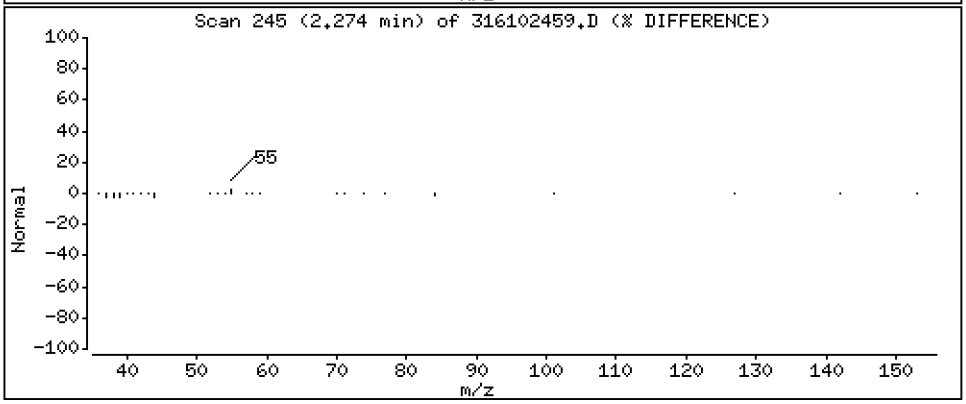
Column phase: DB-VRX Column diameter: 0.25

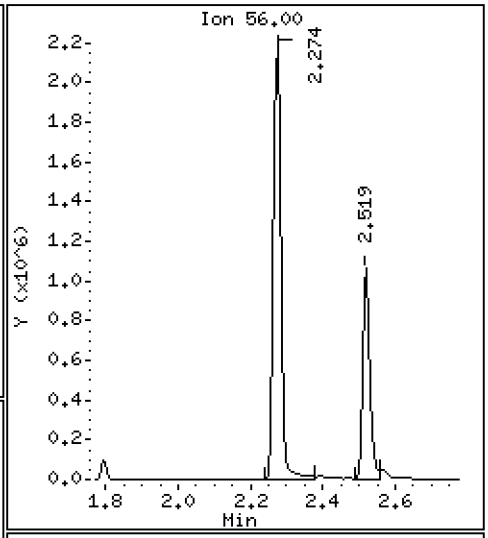
14 Acrolein Concentration: 1999.80 ug/L

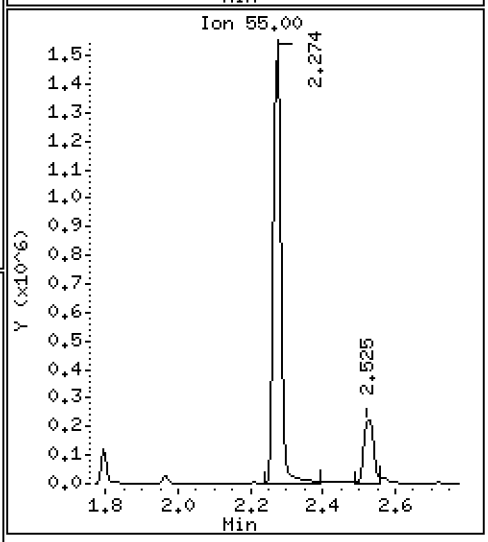












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 23

Date : 25-OCT-2016 01:36

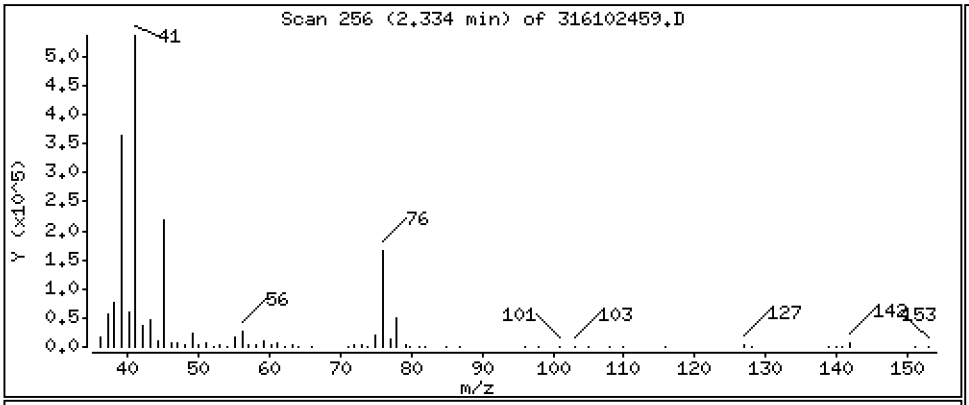
Client ID: Instrument: ms03.i

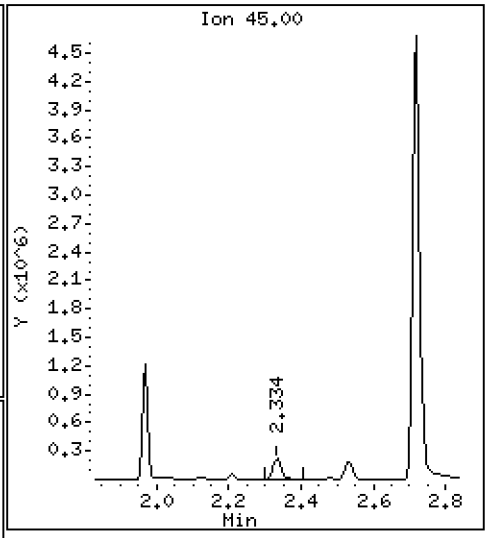
Sample Info: 1239;;1;1;6;;;

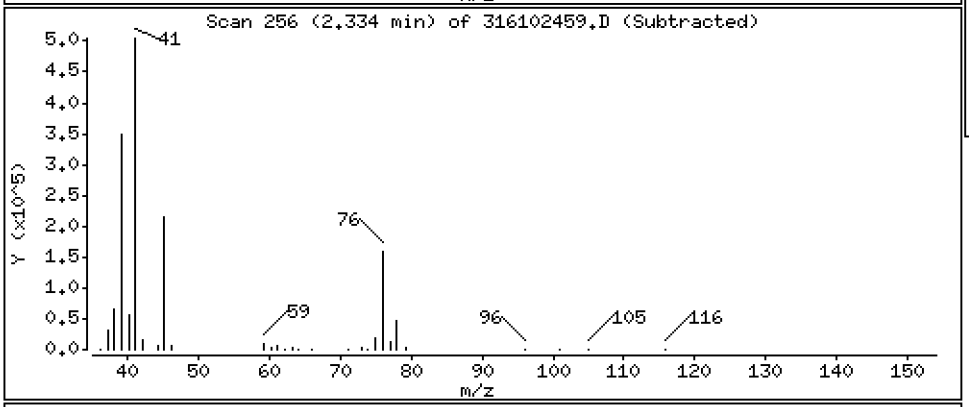
Purge Volume: 5.0 Operator: CJG

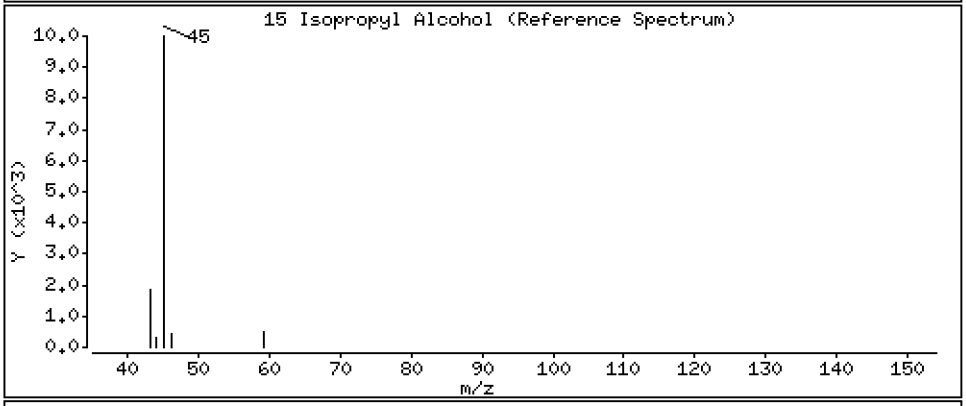
Column phase: DB-VRX Column diameter: 0.25

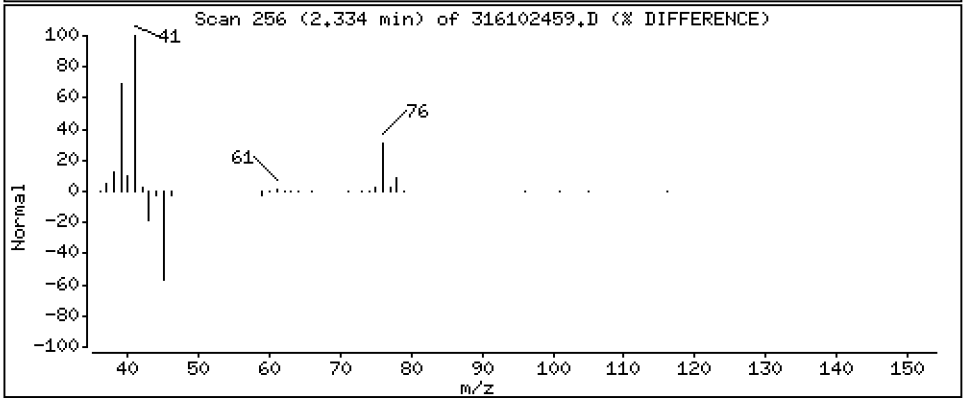
15 Isopropyl Alcohol Concentration: 1000.95 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 24

Date : 25-OCT-2016 01:36

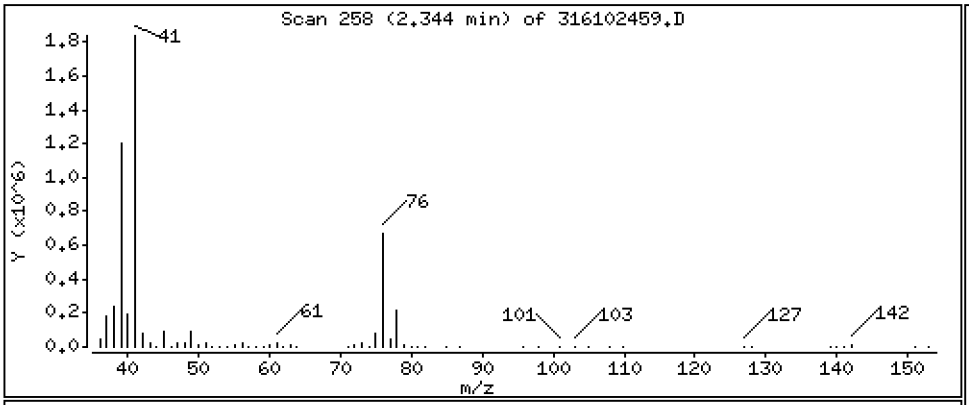
Client ID: Instrument: ms03.i

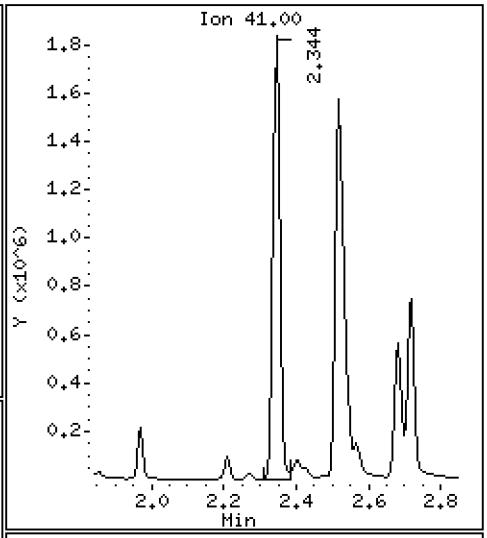
Sample Info: 1239;;1;1;6;;;

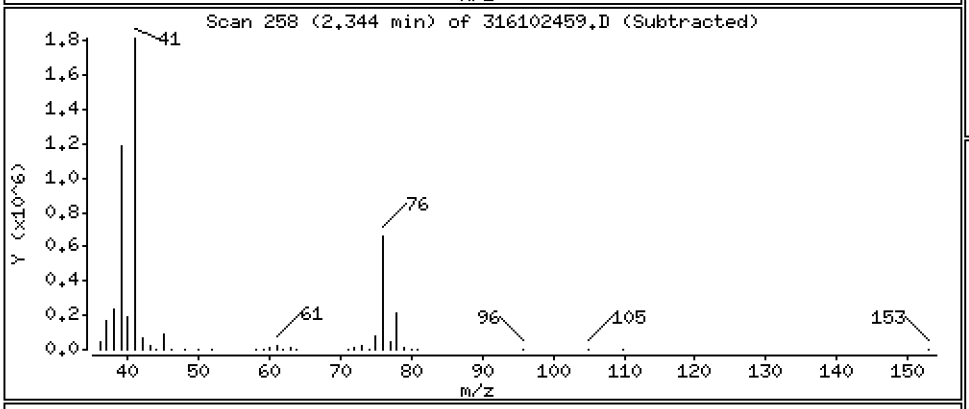
Purge Volume: 5.0 Operator: CJG

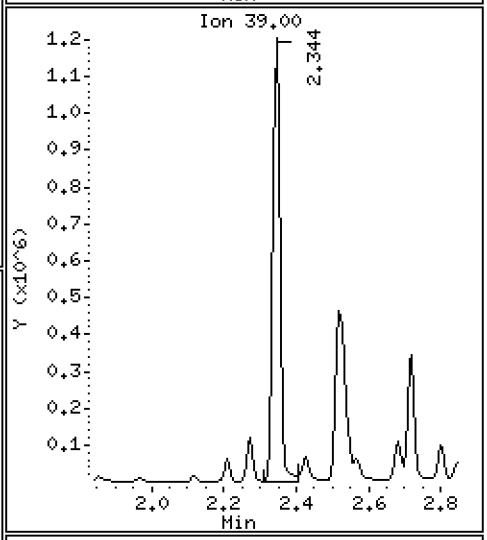
Column phase: DB-VRX Column diameter: 0.25

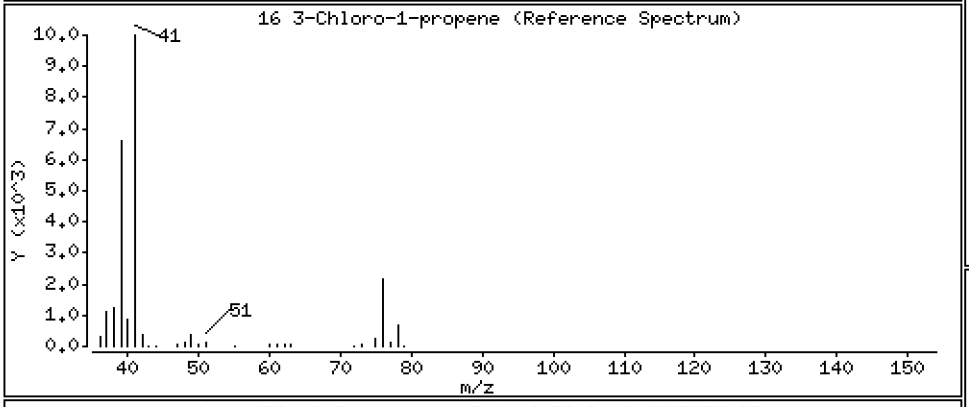
16 3-Chloro-1-propene Concentration: 199.640 ug/L

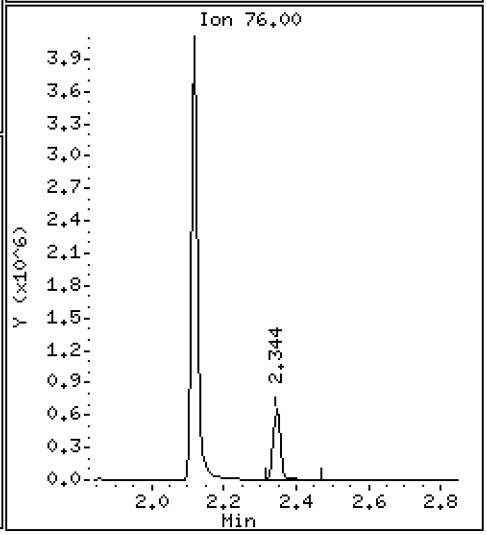


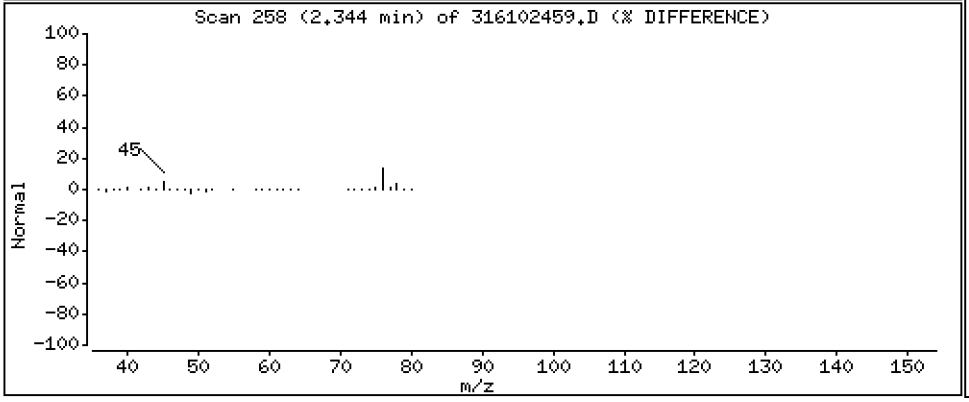












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 25

Date : 25-OCT-2016 01:36

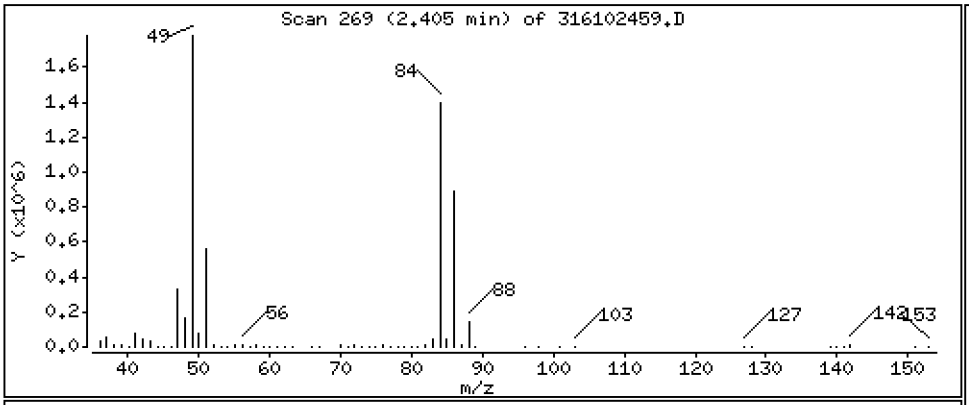
Client ID: Instrument: ms03.i

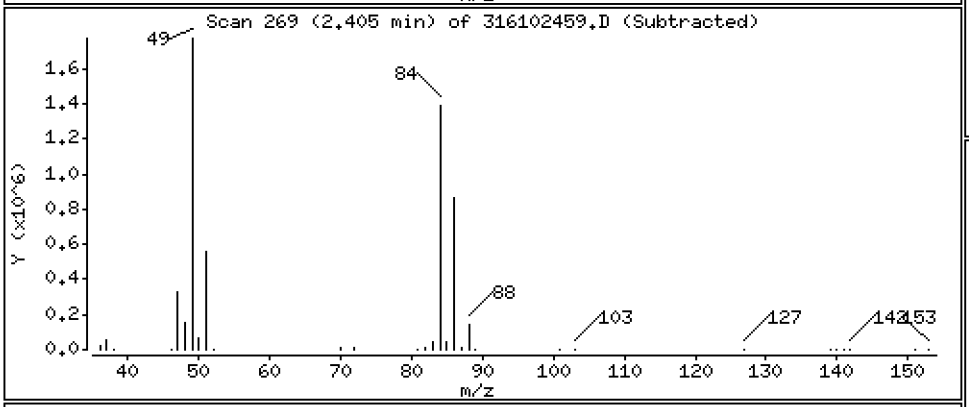
Sample Info: 1239;;1;1;6;;;

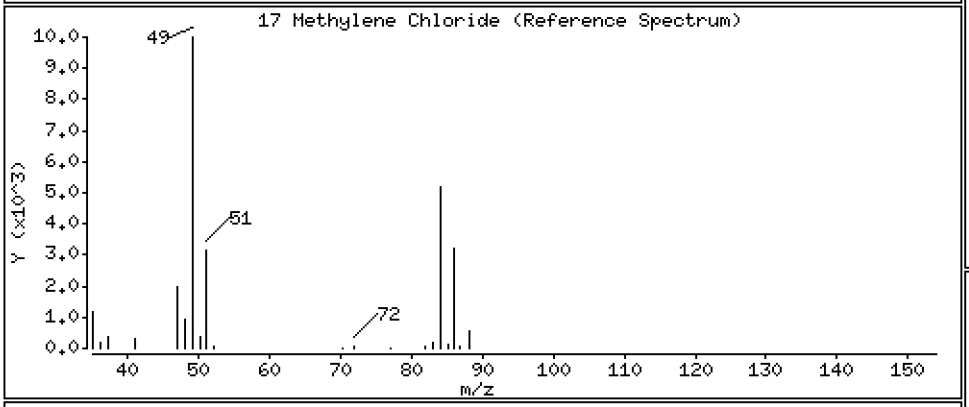
Purge Volume: 5.0 Operator: CJG

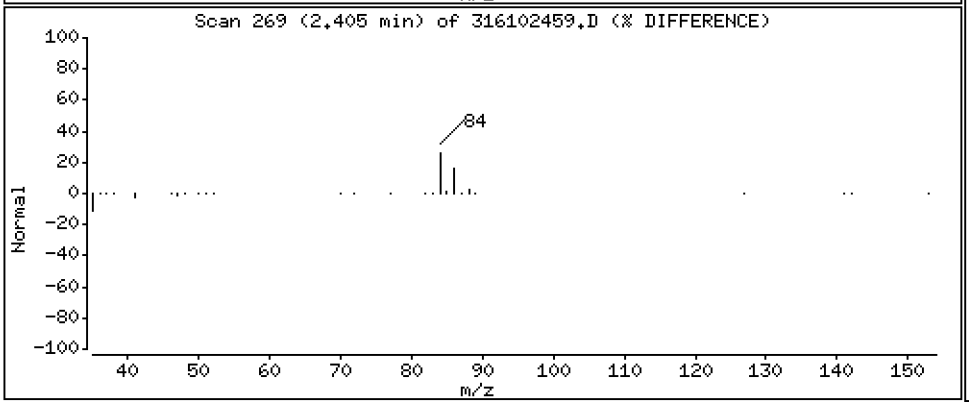
Column phase: DB-VRX Column diameter: 0.25

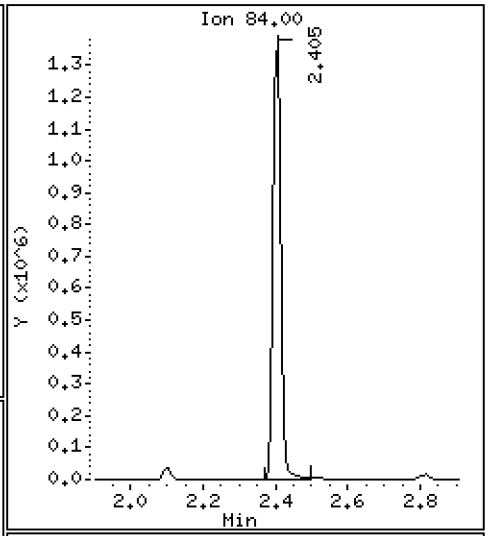
17 Methylene Chloride Concentration: 199.993 ug/L

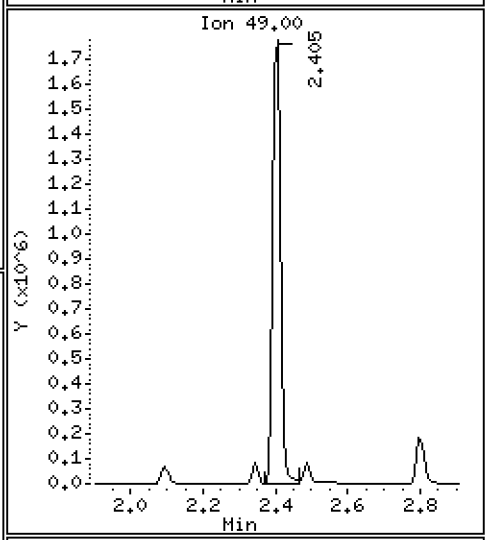


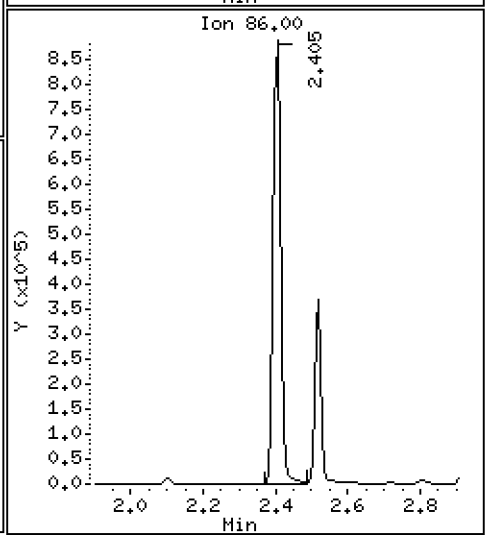












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 26

Date : 25-OCT-2016 01:36

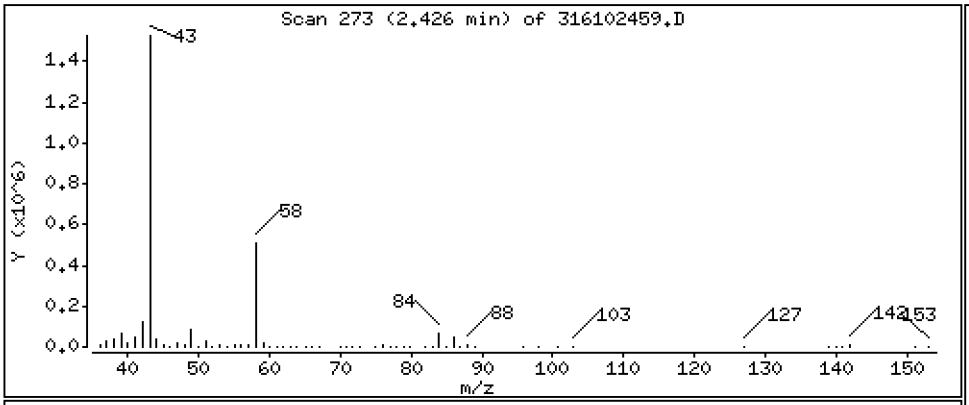
Client ID: Instrument: ms03.i

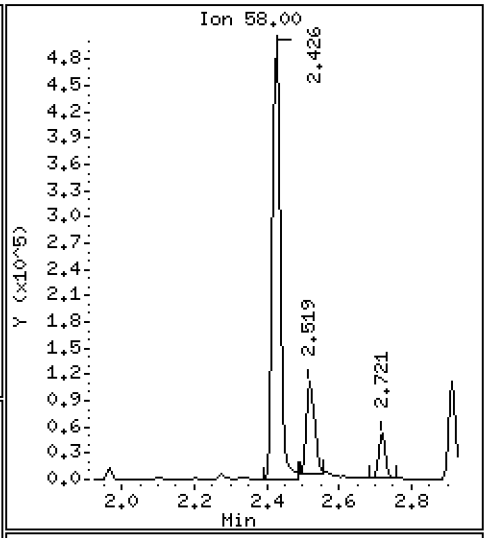
Sample Info: 1239;;1;1;6;;;

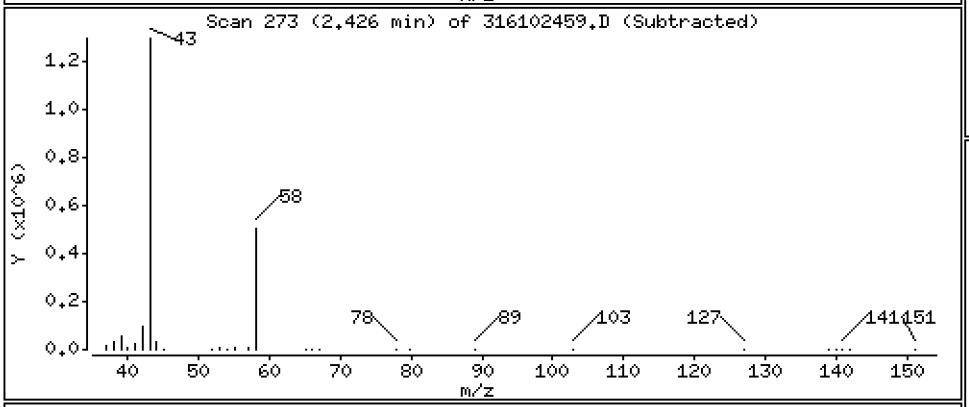
Purge Volume: 5.0 Operator: CJG

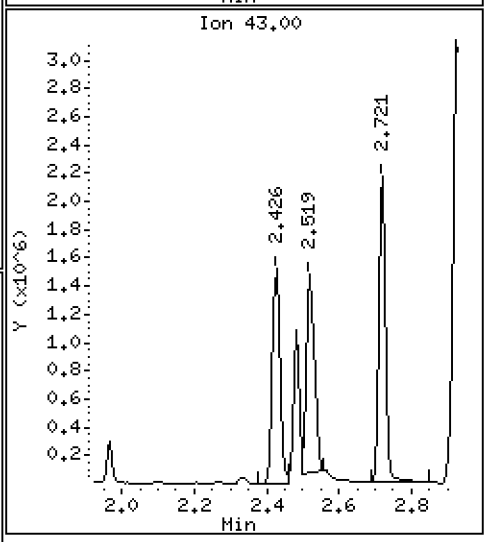
Column phase: DB-VRX Column diameter: 0.25

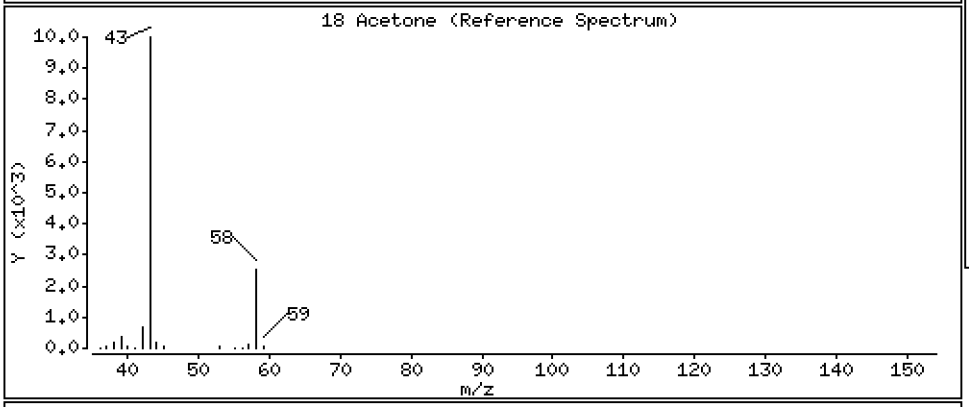
18 Acetone Concentration: 1001.16 ug/L

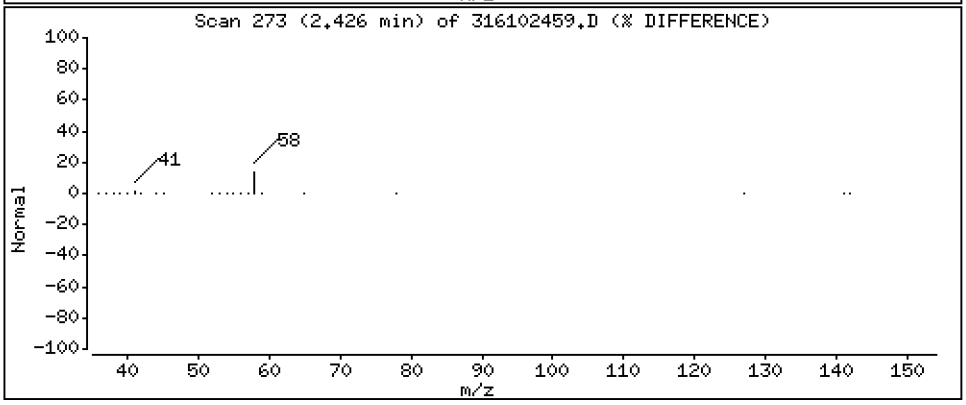












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 27

Date : 25-OCT-2016 01:36

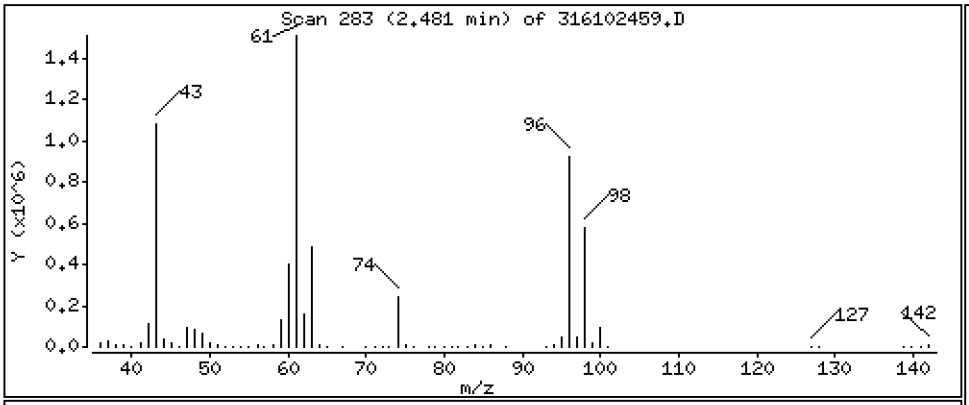
Client ID: Instrument: ms03.i

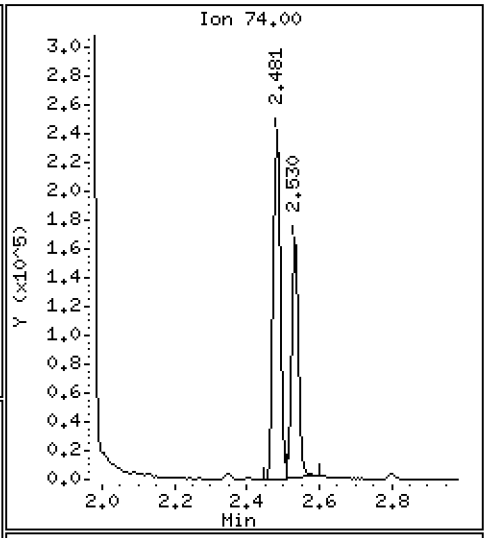
Sample Info: 1239;;1;1;6;;;

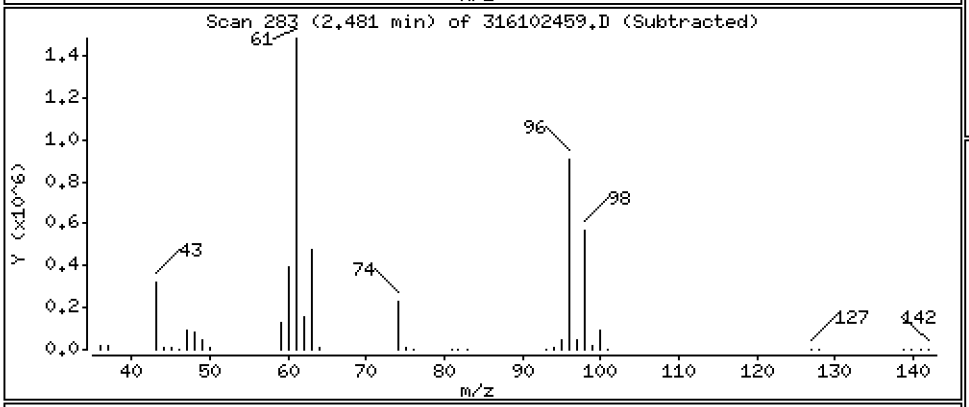
Purge Volume: 5.0 Operator: CJG

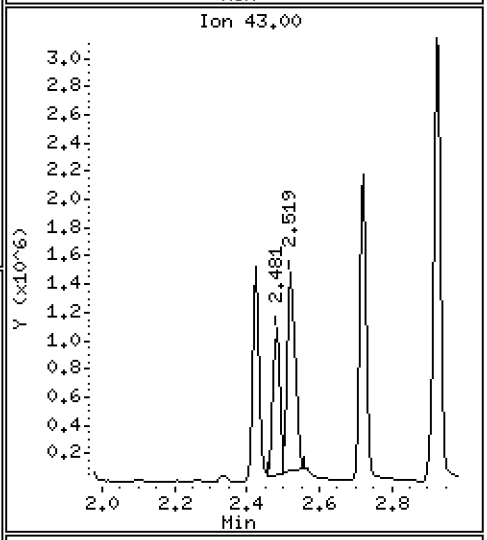
Column phase: DB-VRX Column diameter: 0.25

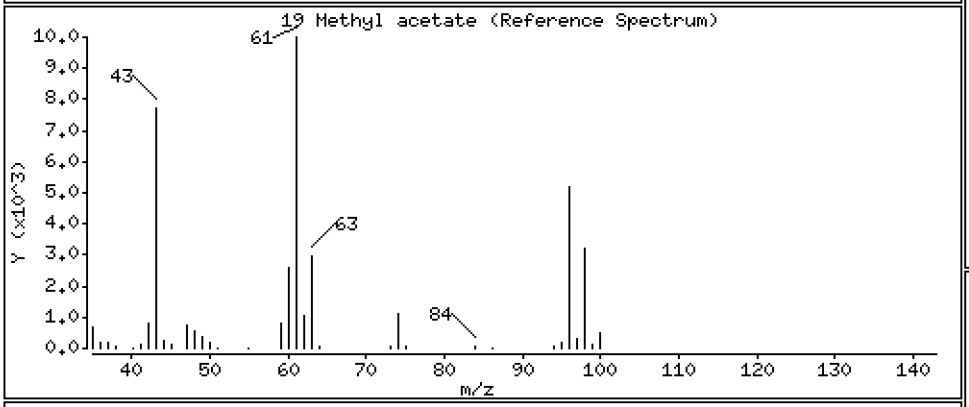
19 Methyl acetate Concentration: 200.164 ug/L

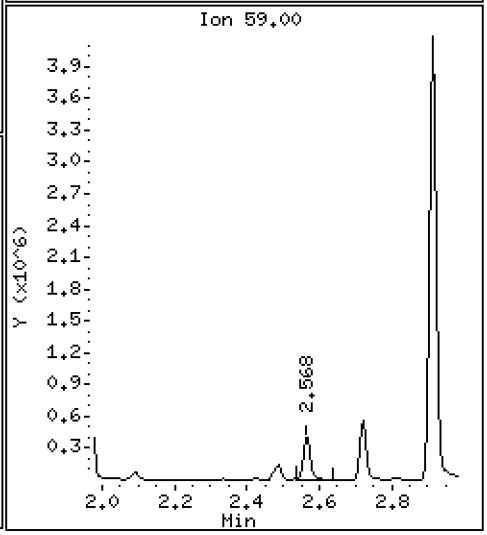


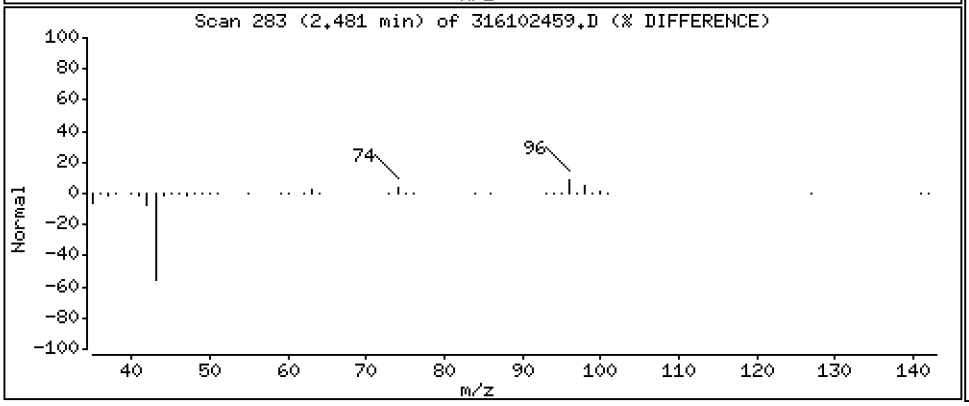












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 28

Date : 25-OCT-2016 01:36

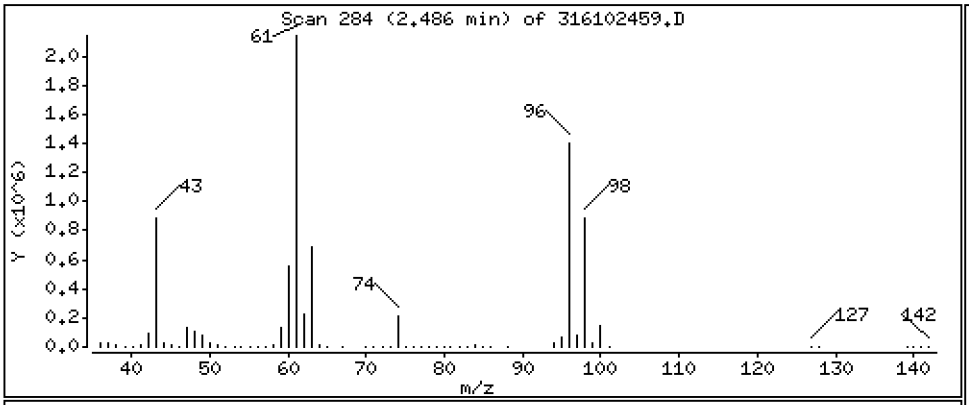
Client ID: Instrument: ms03.i

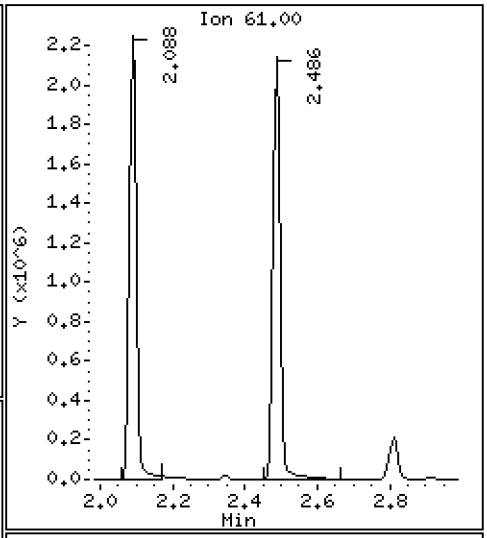
Sample Info: 1239;;1;1;6;;;

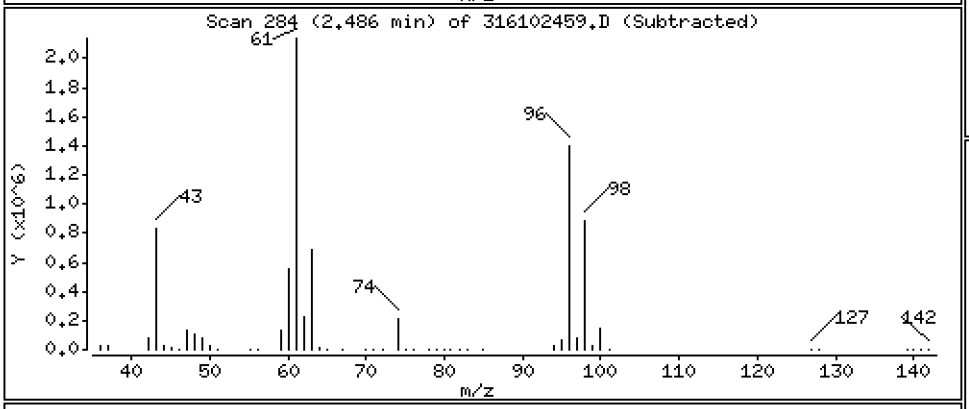
Purge Volume: 5.0 Operator: CJG

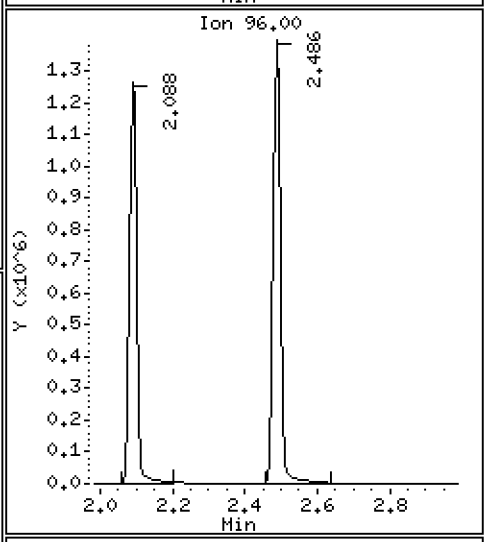
Column phase: DB-VRX Column diameter: 0.25

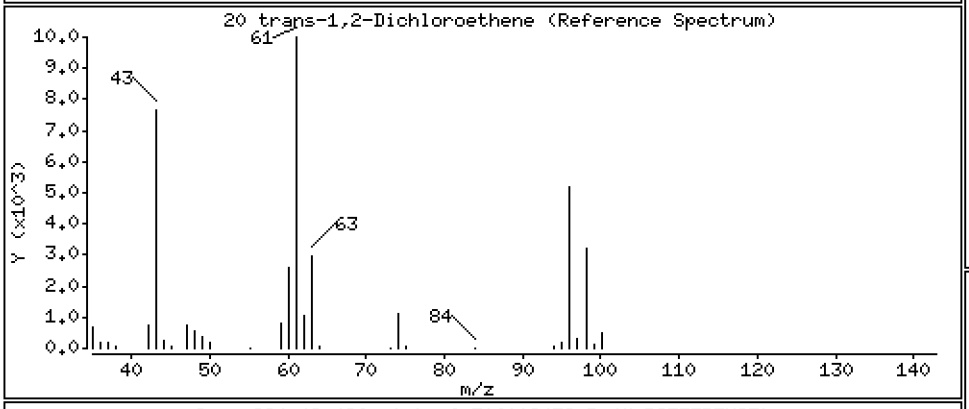
20 trans-1,2-Dichloroethene Concentration: 199.940 ug/L

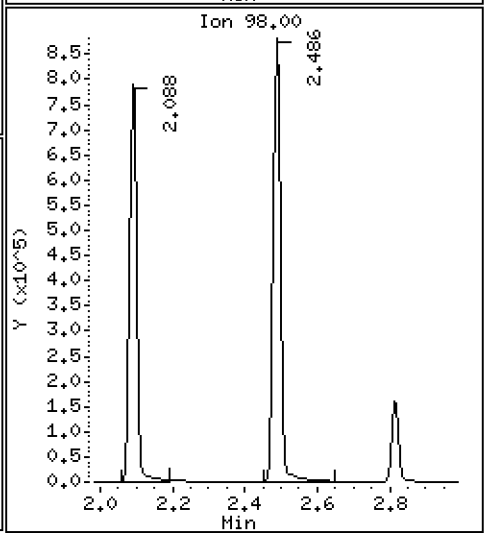


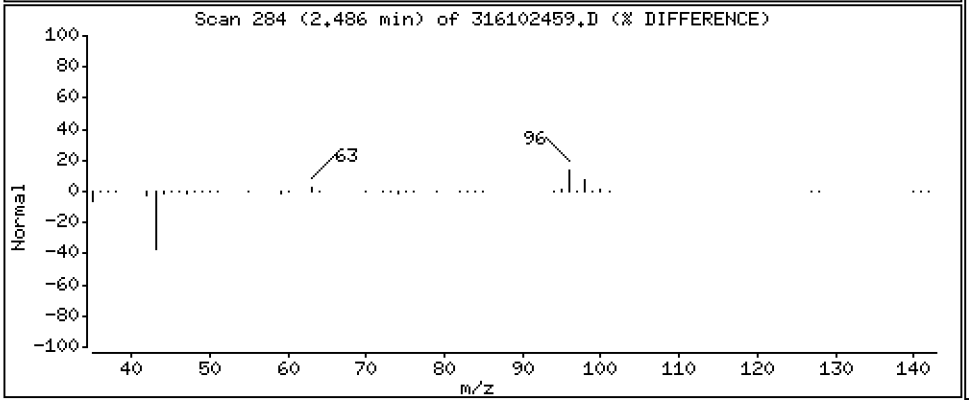












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 29

Date : 25-OCT-2016 01:36

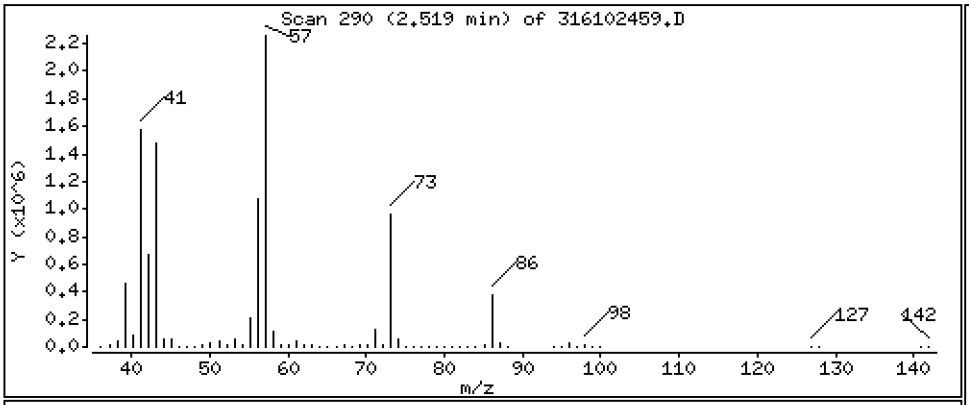
Client ID: Instrument: ms03.i

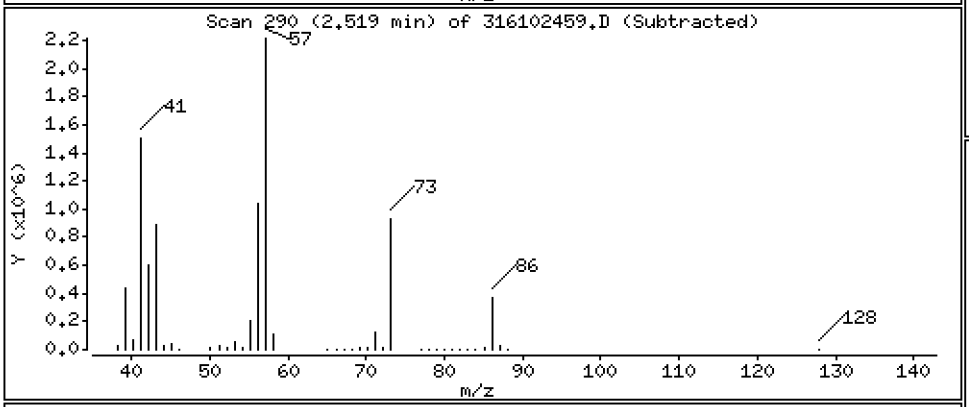
Sample Info: 1239;;1;1;6;;;

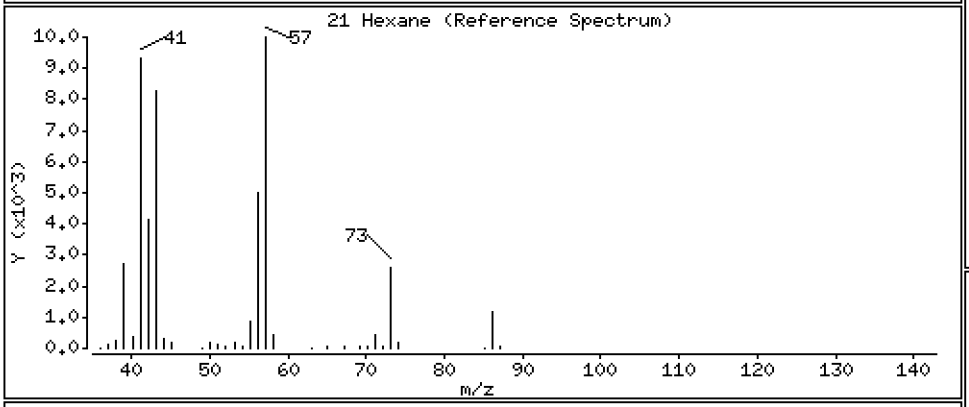
Purge Volume: 5.0 Operator: CJG

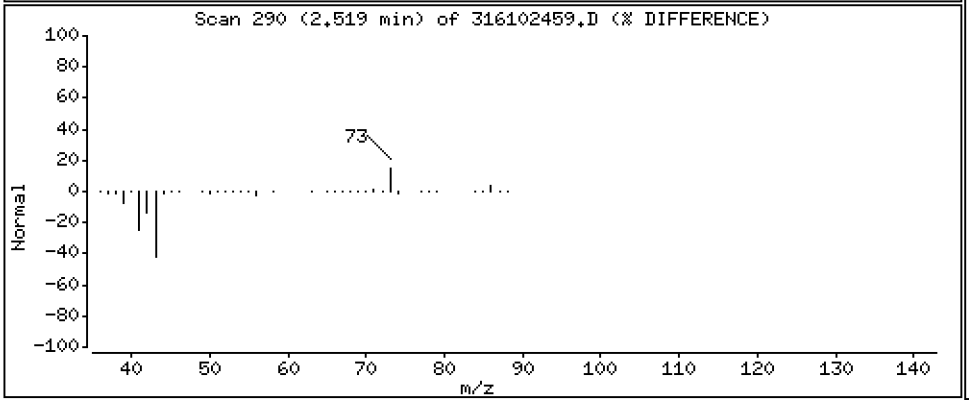
Column phase: DB-VRX Column diameter: 0.25

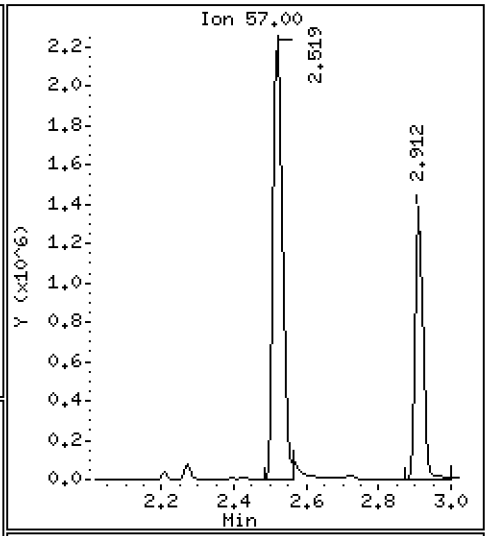
21 Hexane Concentration: 199.959 ug/L

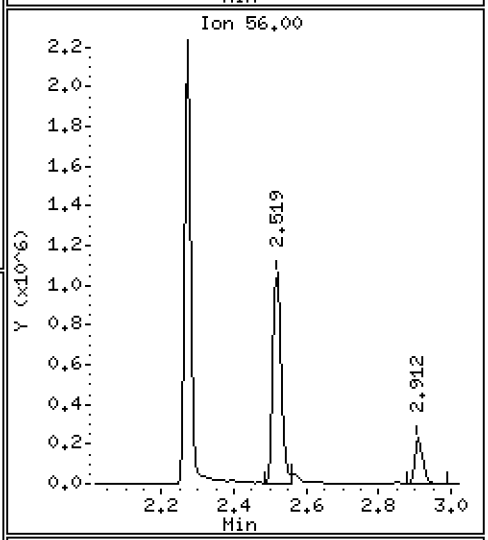


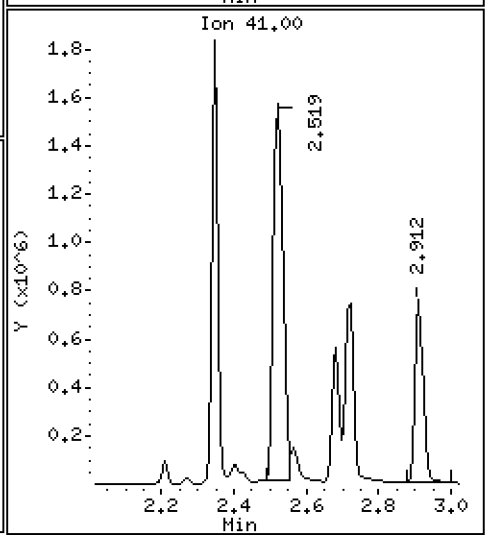












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 30

Date : 25-OCT-2016 01:36

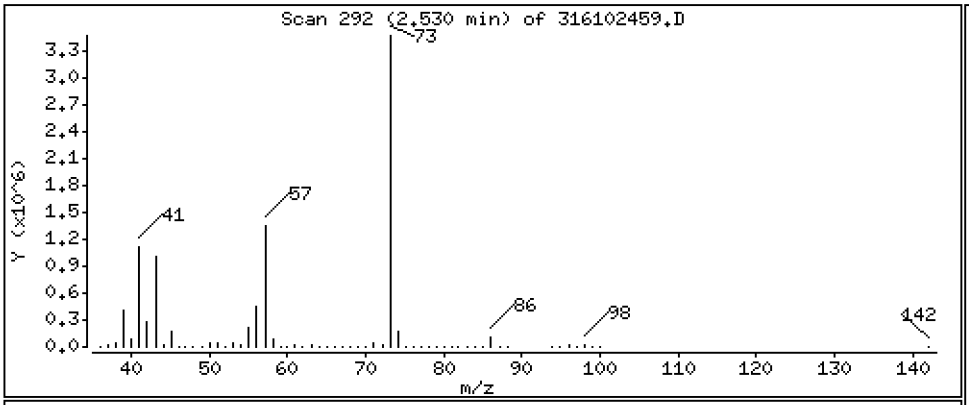
Client ID: Instrument: ms03.i

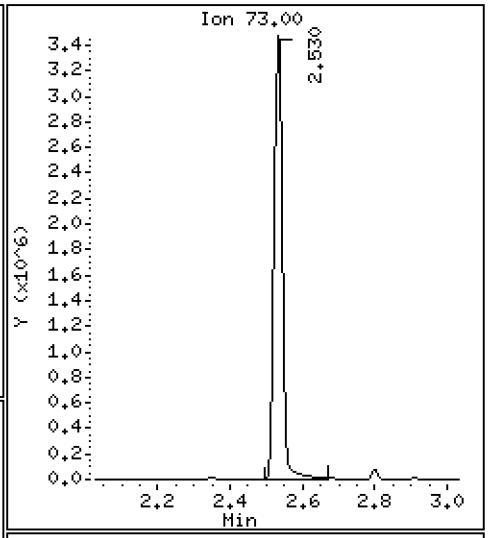
Sample Info: 1239;;1;1;6;;;

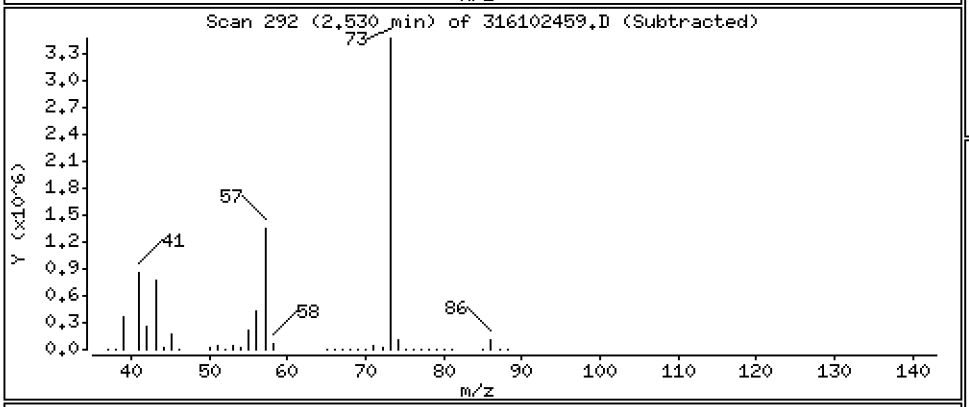
Purge Volume: 5.0 Operator: CJG

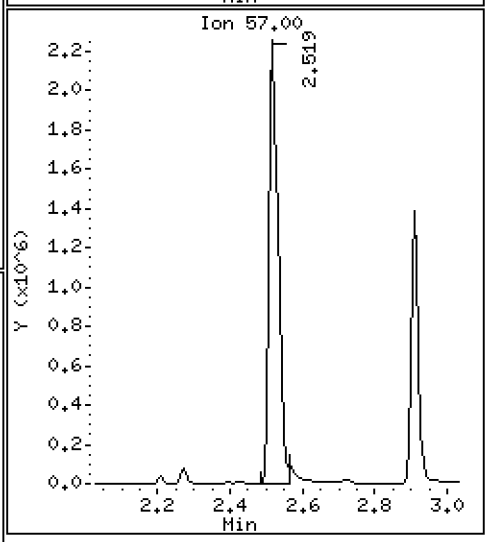
Column phase: DB-VRX Column diameter: 0.25

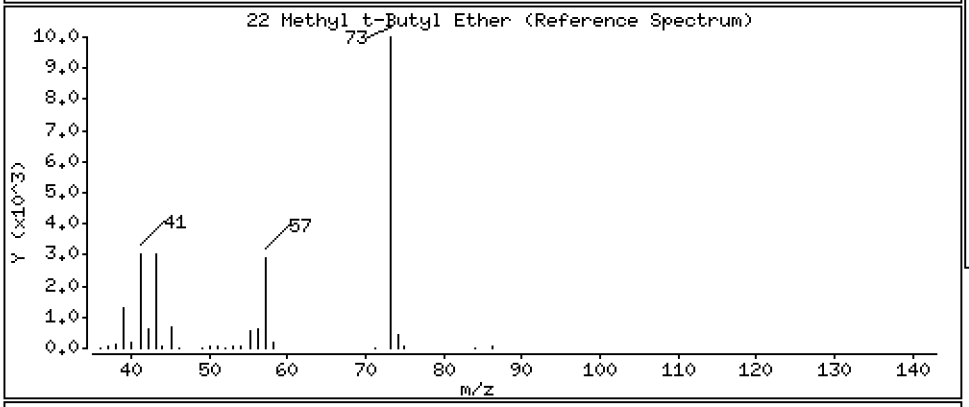
22 Methyl t-Butyl Ether Concentration: 199.972 ug/L

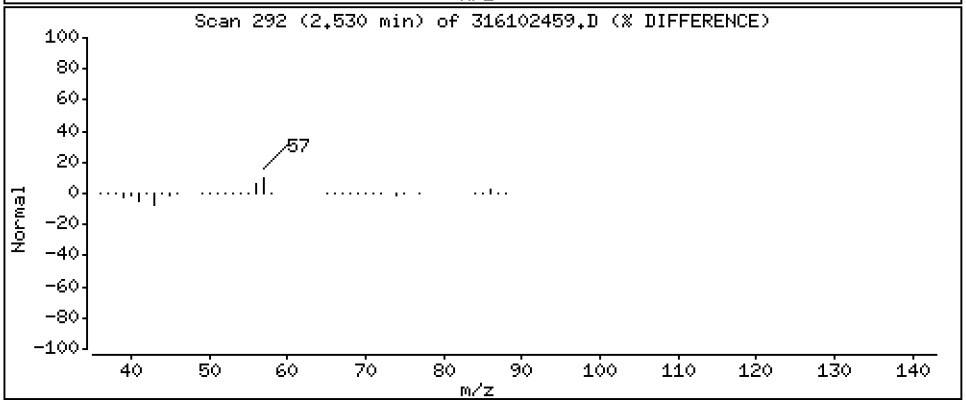












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 31

Date : 25-OCT-2016 01:36

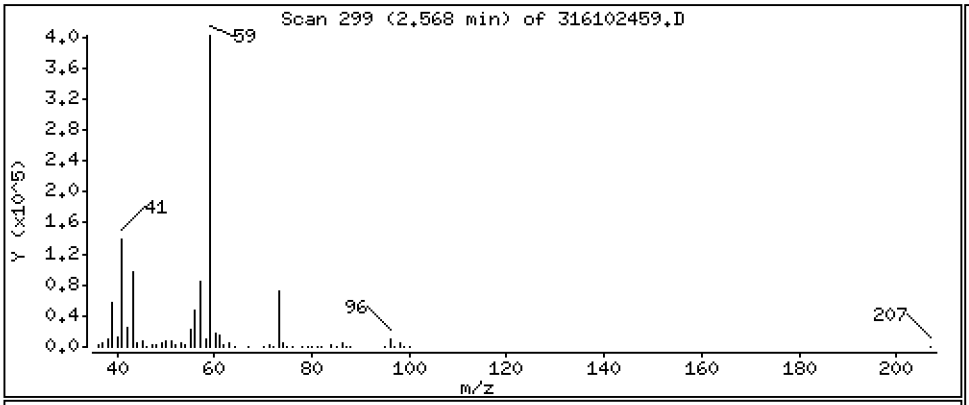
Client ID: Instrument: ms03.i

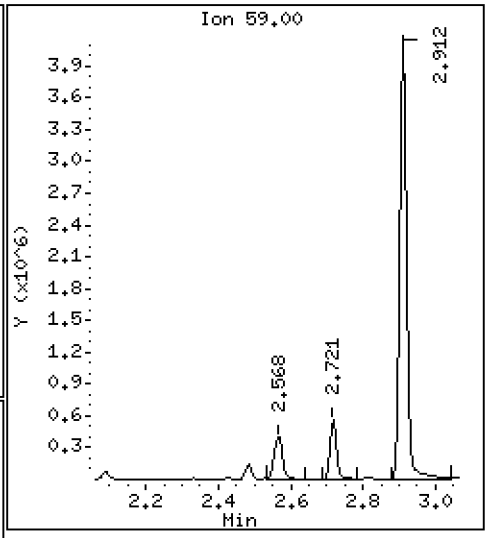
Sample Info: 1239;;1;1;6;;;

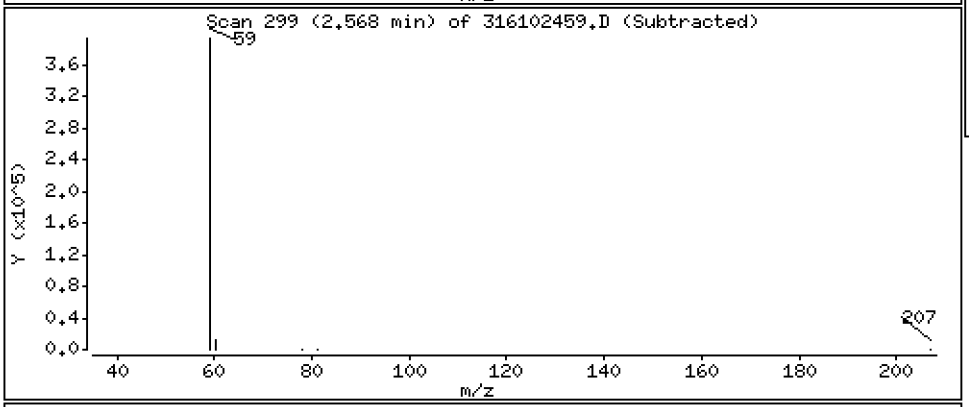
Purge Volume: 5.0 Operator: CJG

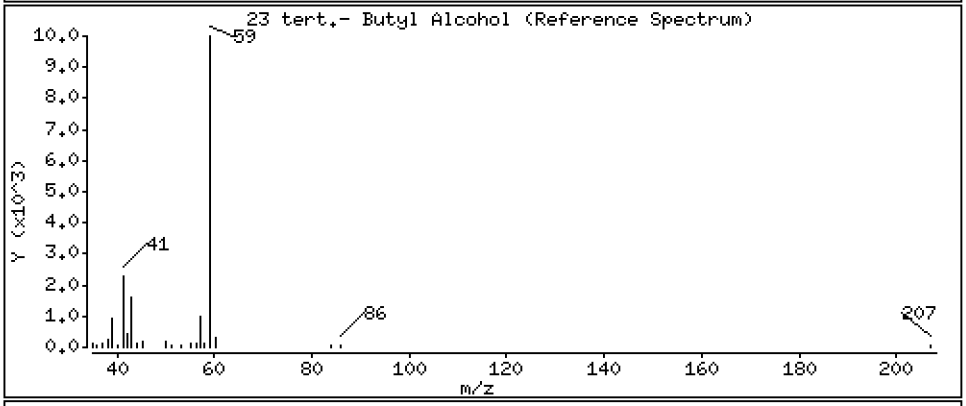
Column phase: DB-VRX Column diameter: 0.25

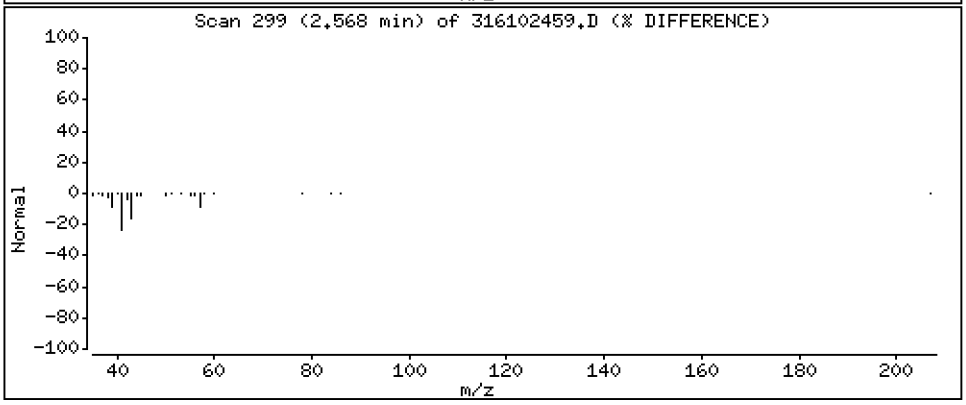
23 tert.- Butyl Alcohol Concentration: 999.175 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 32

Date : 25-OCT-2016 01:36

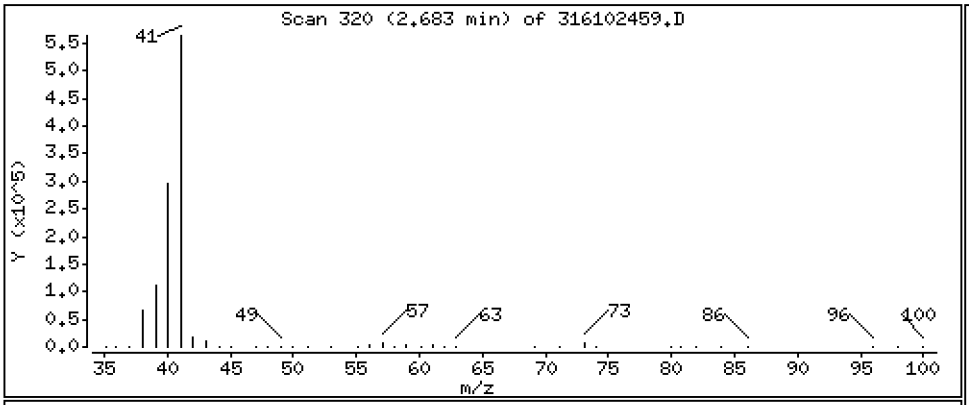
Client ID: Instrument: ms03.i

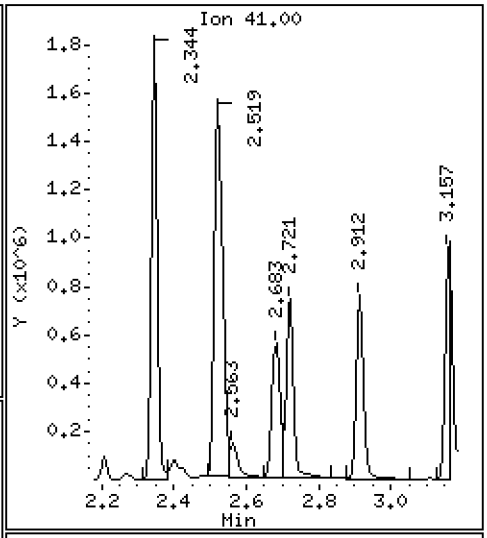
Sample Info: 1239;;1;1;6;;;

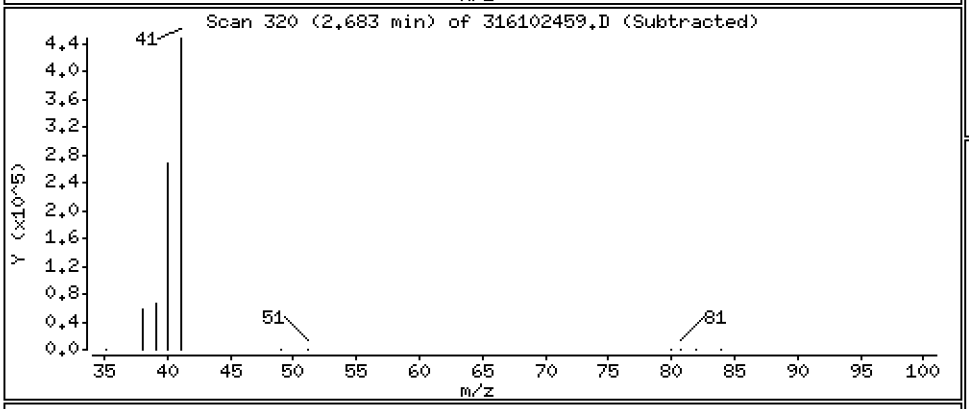
Purge Volume: 5.0 Operator: CJG

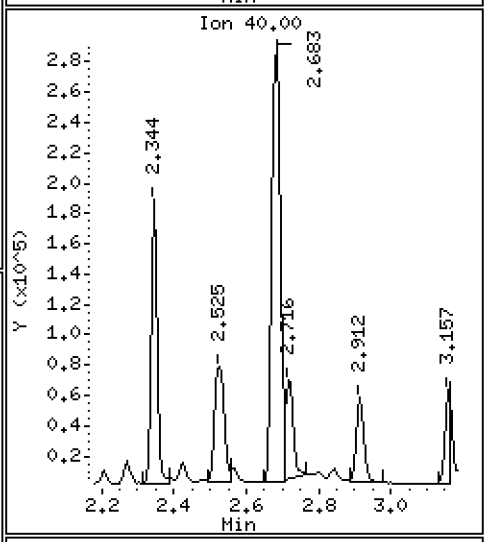
Column phase: DB-VRX Column diameter: 0.25

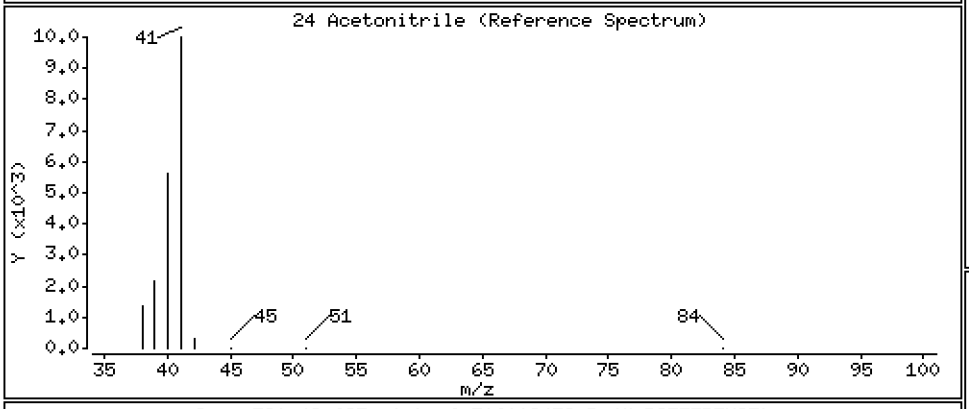
24 Acetonitrile Concentration: 1000.81 ug/L

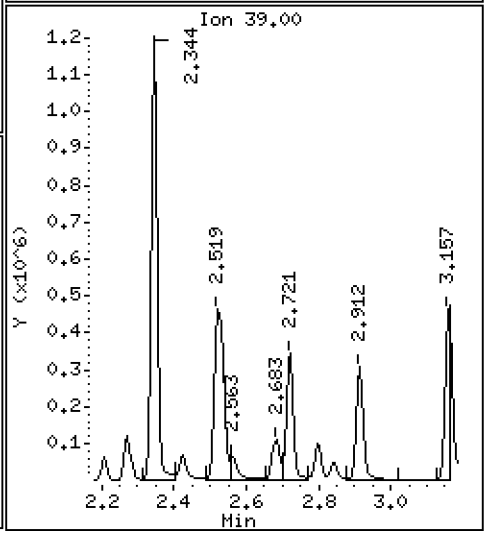


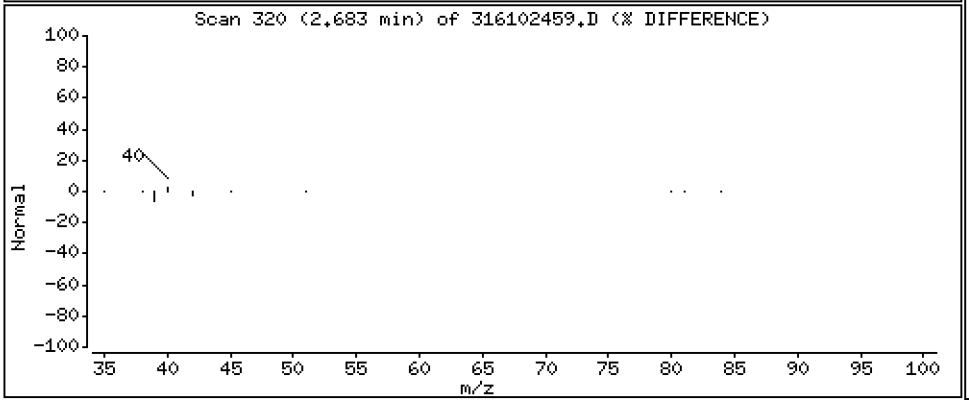












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 33

Date : 25-OCT-2016 01:36

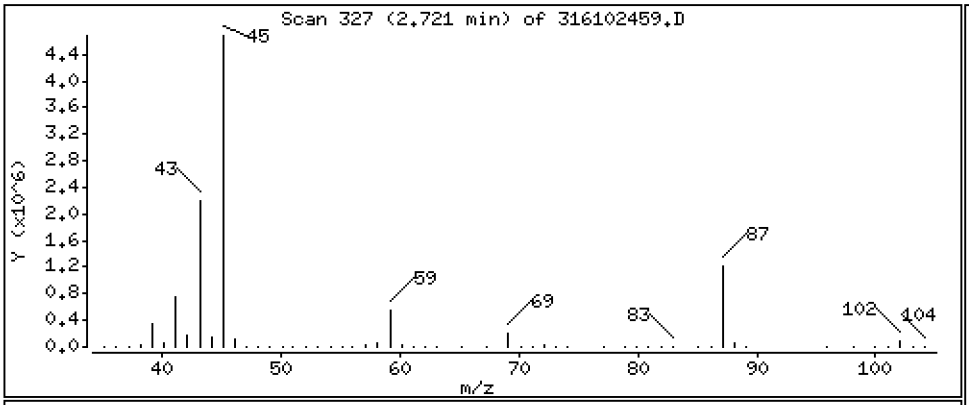
Client ID: Instrument: ms03.i

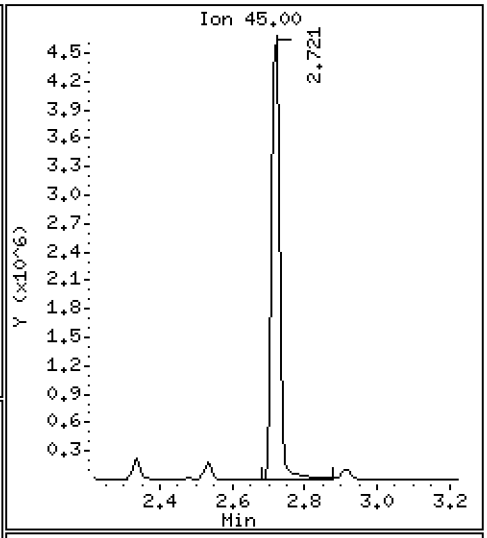
Sample Info: 1239;;1;1;6;;;

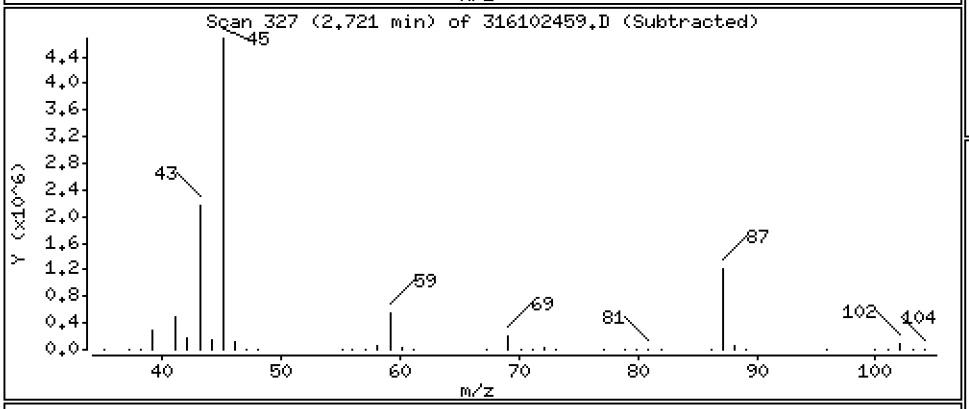
Purge Volume: 5.0 Operator: CJG

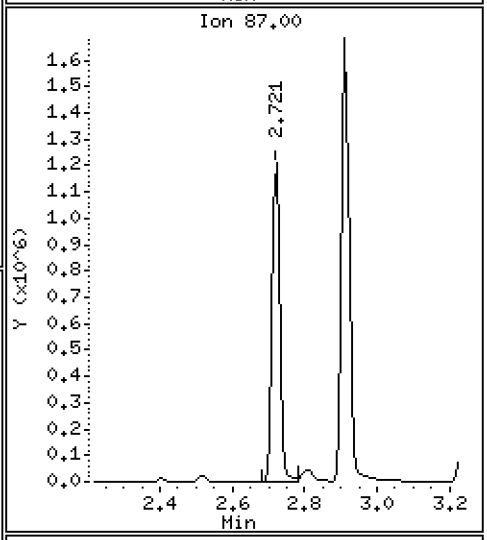
Column phase: DB-VRX Column diameter: 0.25

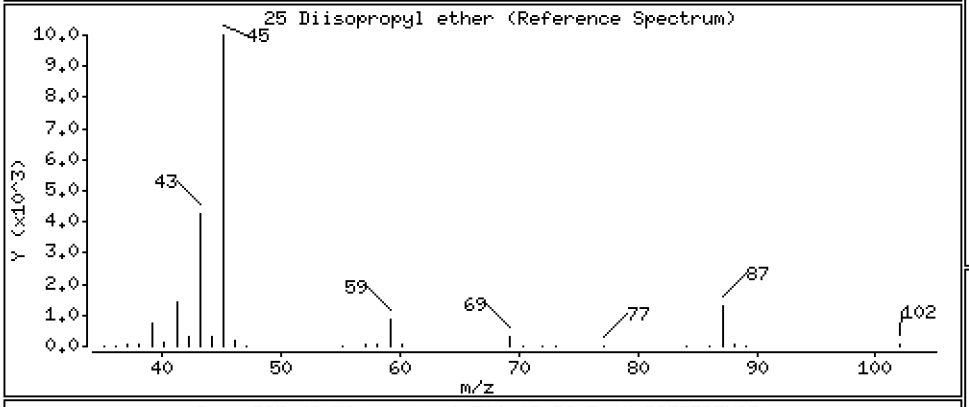
25 Diisopropyl ether Concentration: 199.890 ug/L

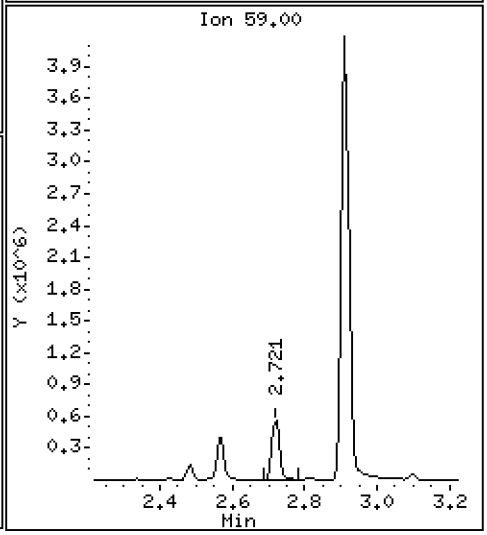


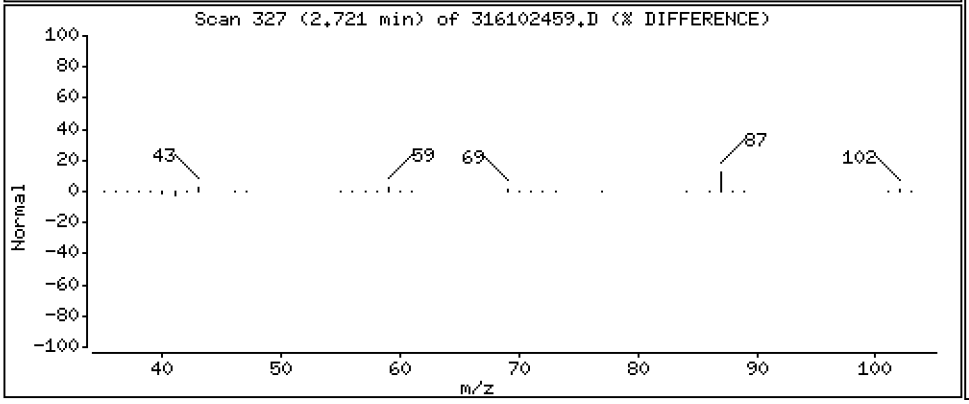












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 34

Date : 25-OCT-2016 01:36

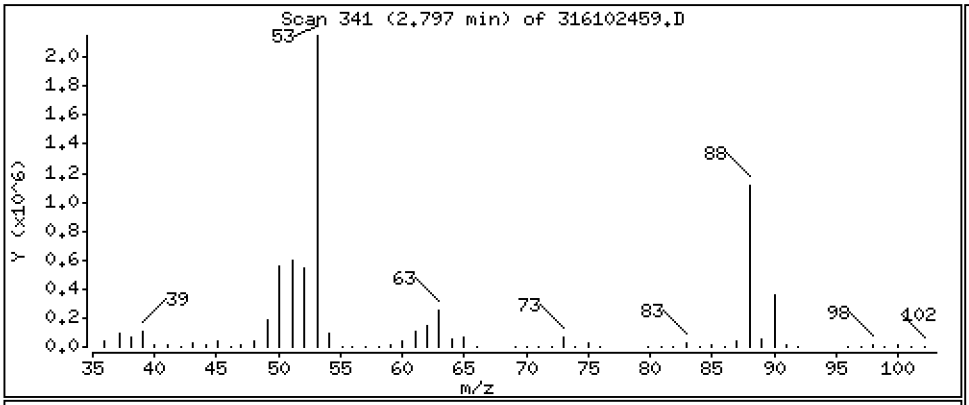
Client ID: Instrument: ms03.i

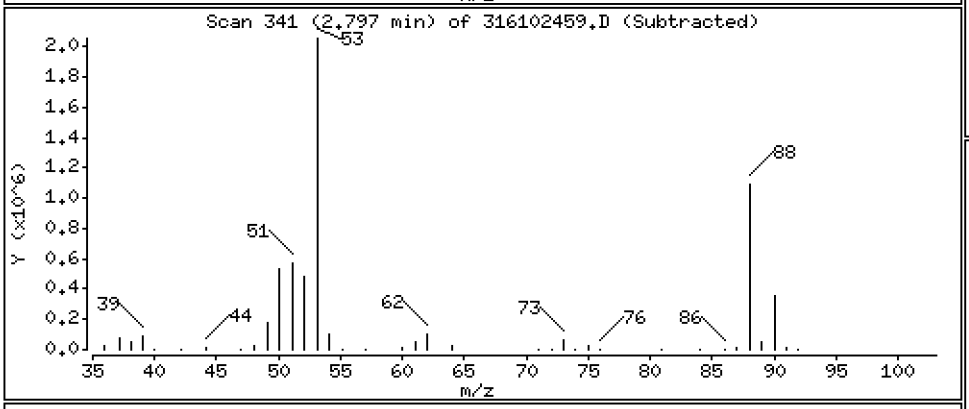
Sample Info: 1239;;1;1;6;;;

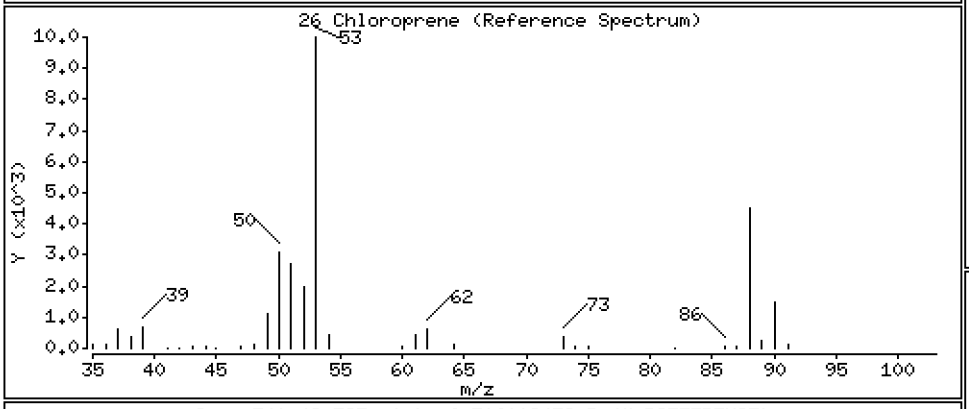
Purge Volume: 5.0 Operator: CJG

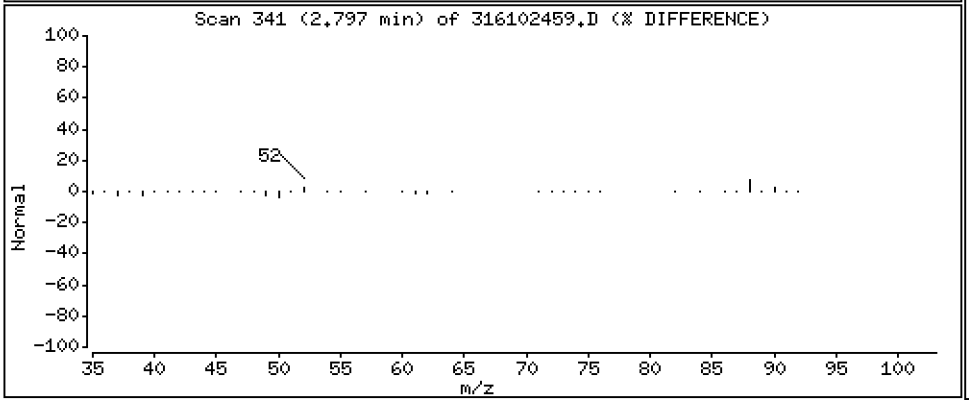
Column phase: DB-VRX Column diameter: 0.25

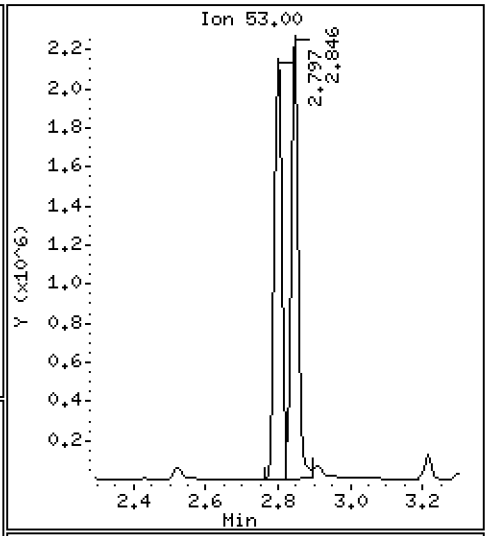
26 Chloroprene Concentration: 200.016 ug/L

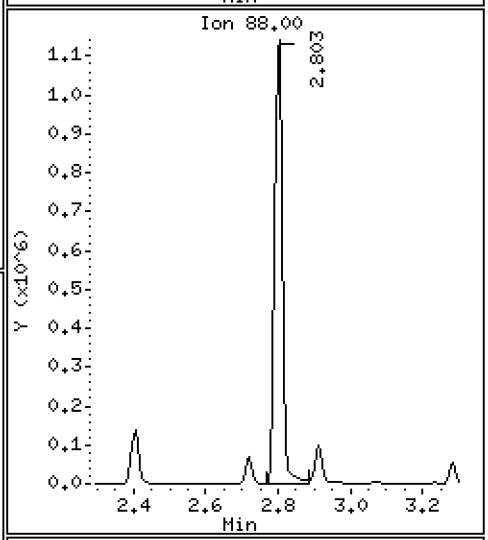


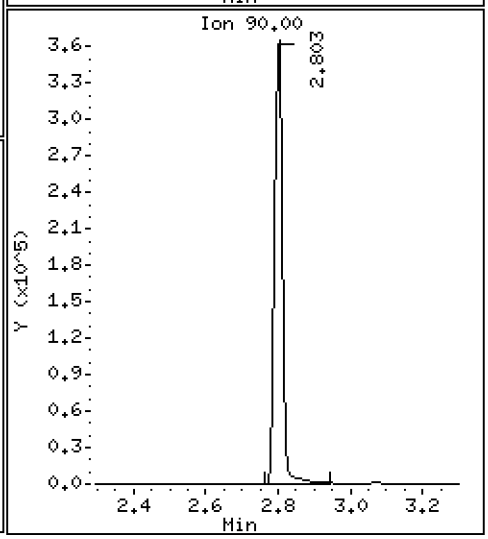












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 35

Date : 25-OCT-2016 01:36

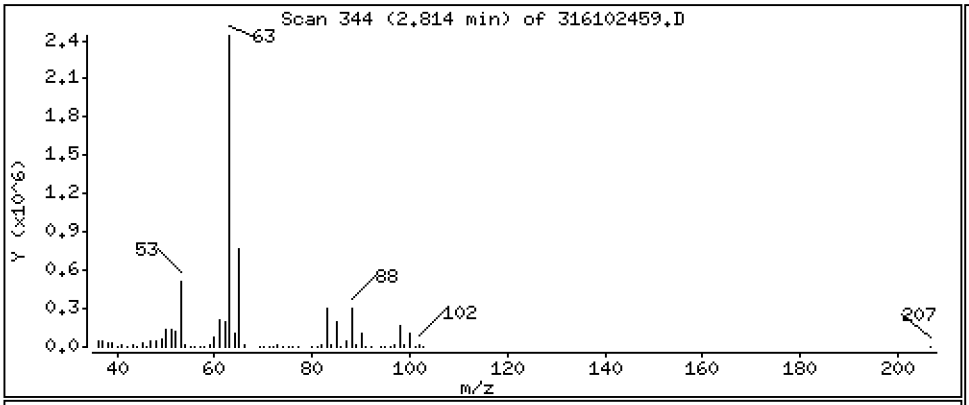
Client ID: Instrument: ms03.i

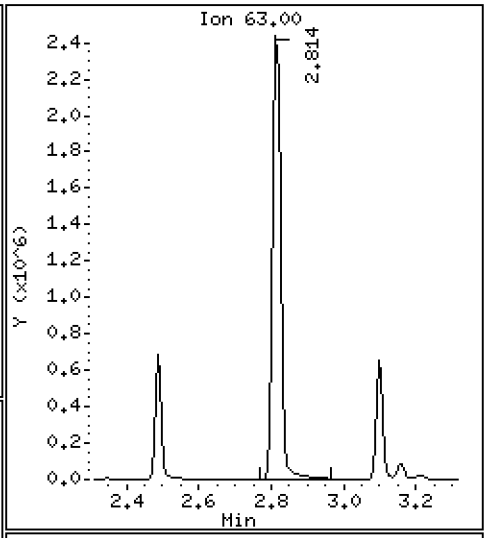
Sample Info: 1239;;1;1;6;;;

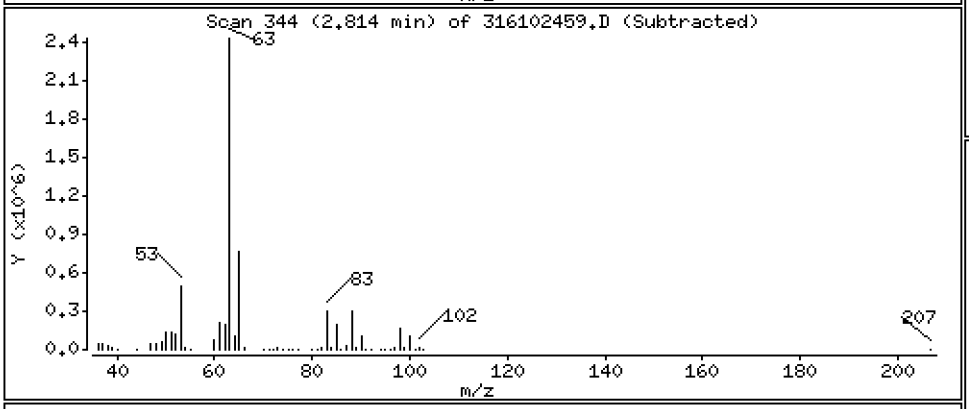
Purge Volume: 5.0 Operator: CJG

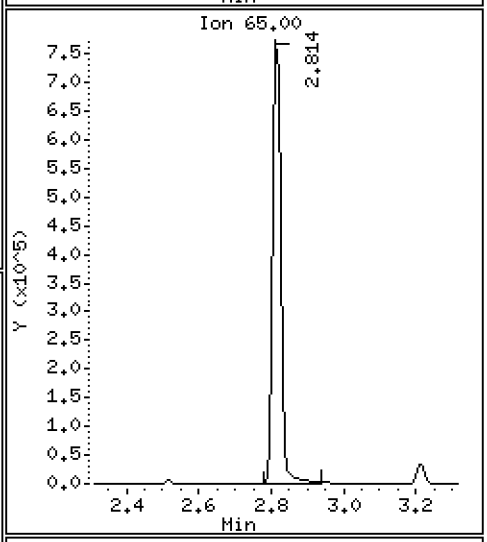
Column phase: DB-VRX Column diameter: 0.25

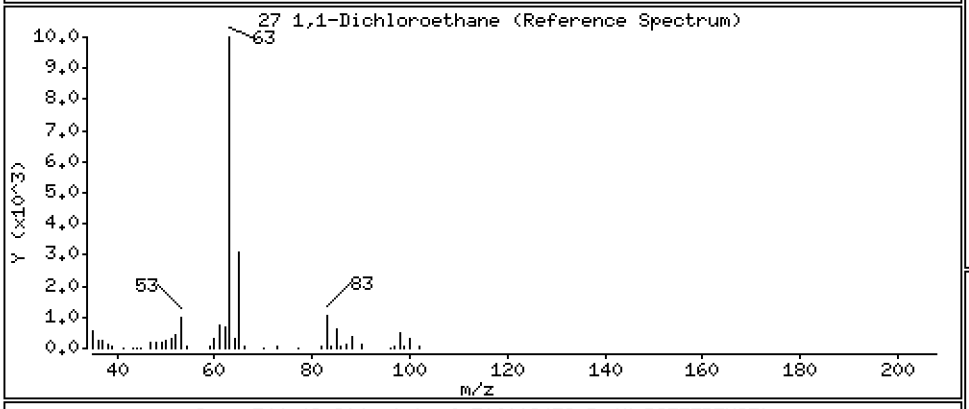
27 1,1-Dichloroethane Concentration: 200.104 ug/L

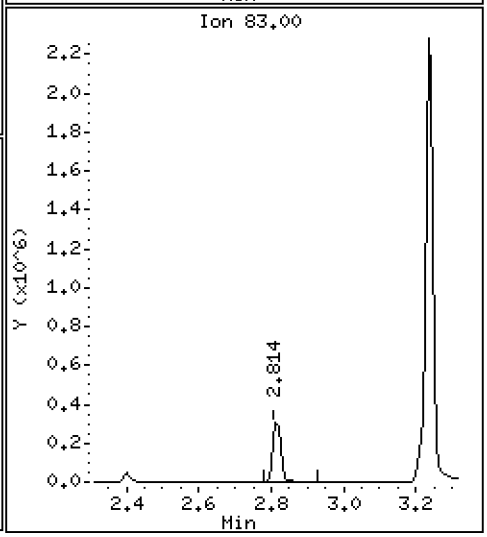


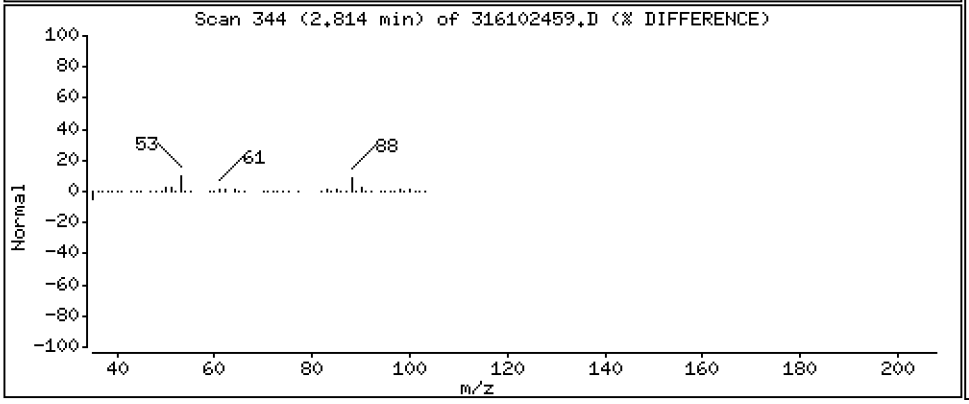












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 36

Date : 25-OCT-2016 01:36

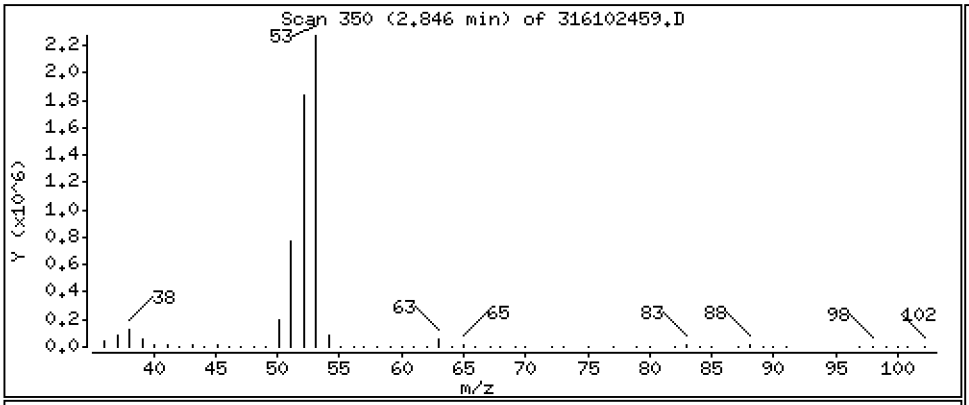
Client ID: Instrument: ms03.i

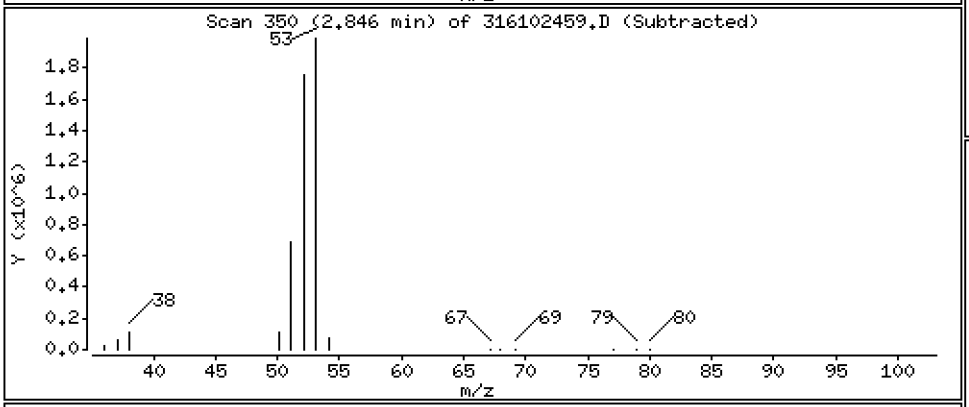
Sample Info: 1239;;1;1;6;;;

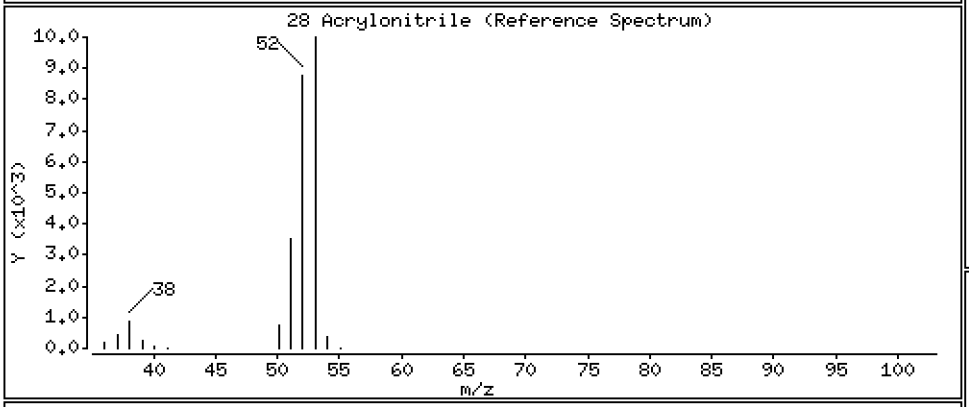
Purge Volume: 5.0 Operator: CJG

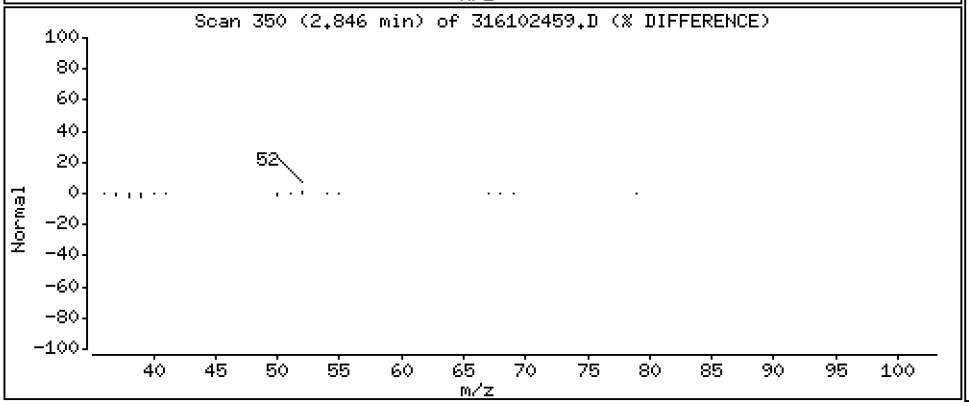
Column phase: DB-VRX Column diameter: 0.25

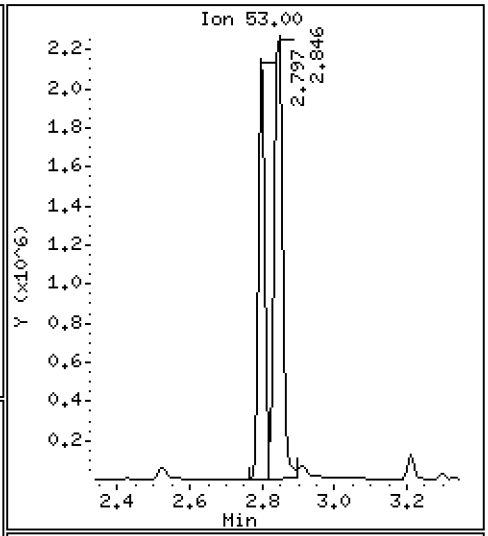
28 Acrylonitrile Concentration: 999.785 ug/L

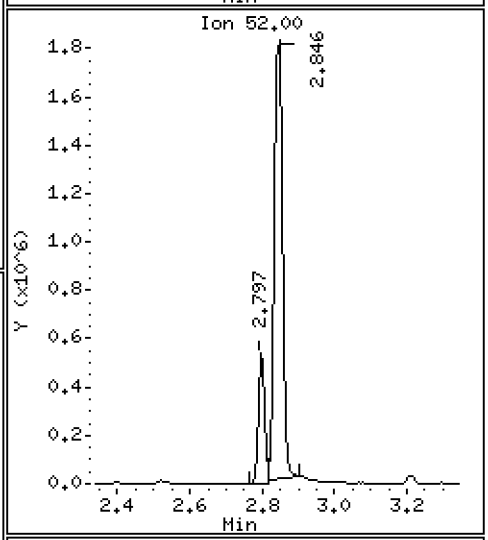


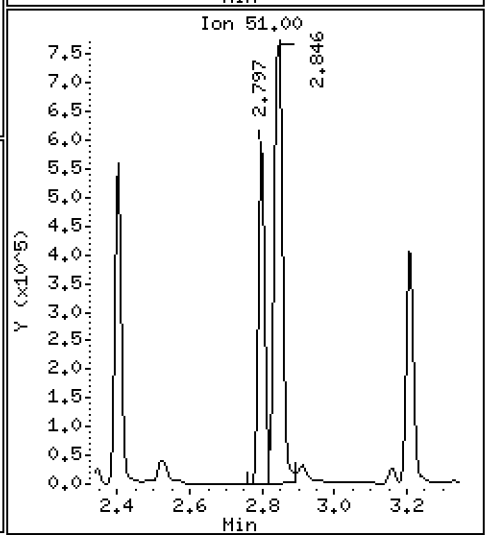












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 37

Date : 25-OCT-2016 01:36

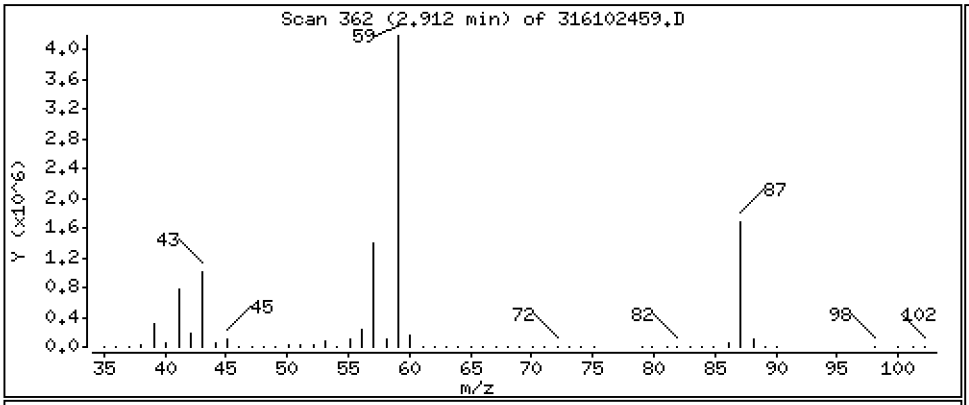
Client ID: Instrument: ms03.i

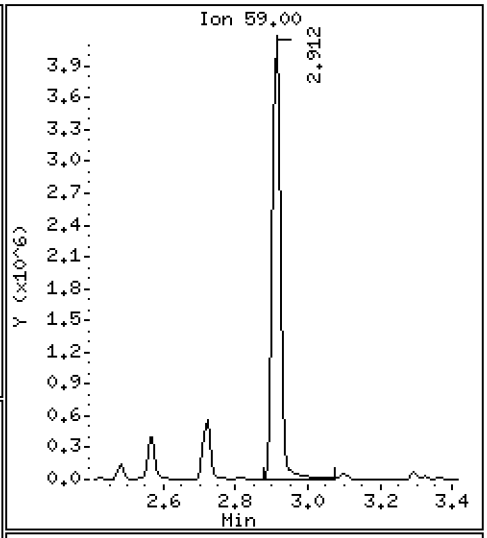
Sample Info: 1239;;1;1;6;;;

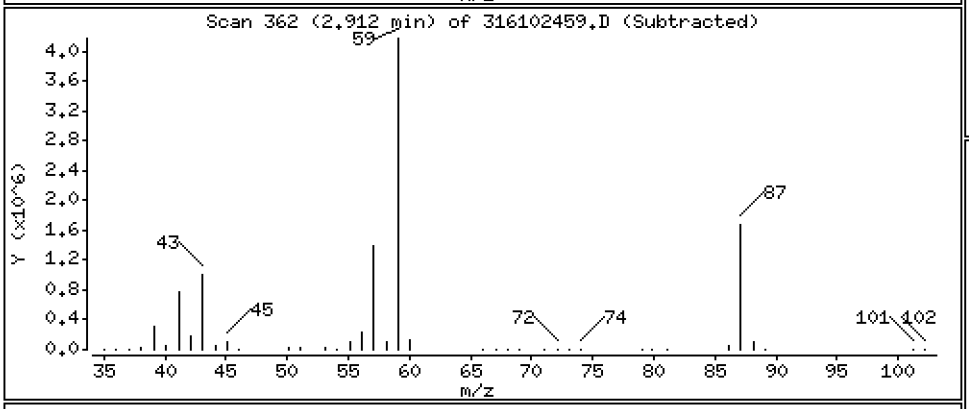
Purge Volume: 5.0 Operator: CJG

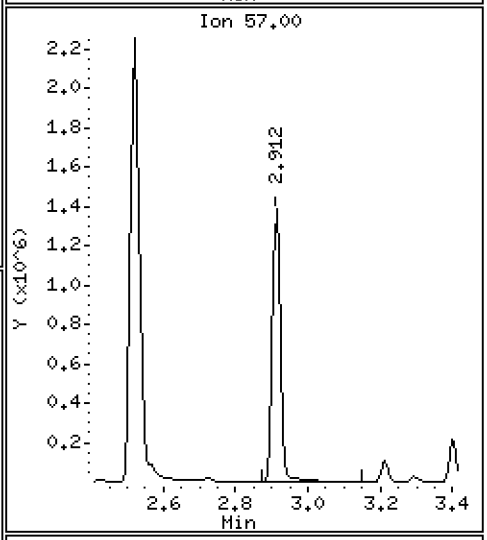
Column phase: DB-VRX Column diameter: 0.25

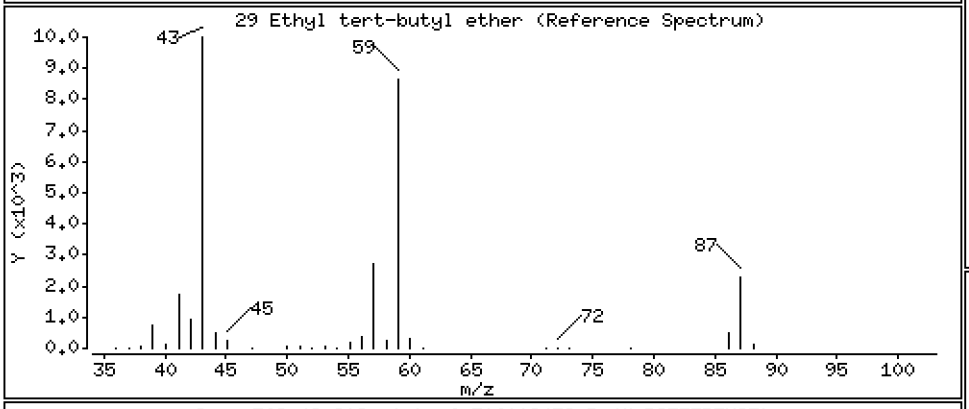
29 Ethyl tert-butyl ether Concentration: 199.829 ug/L

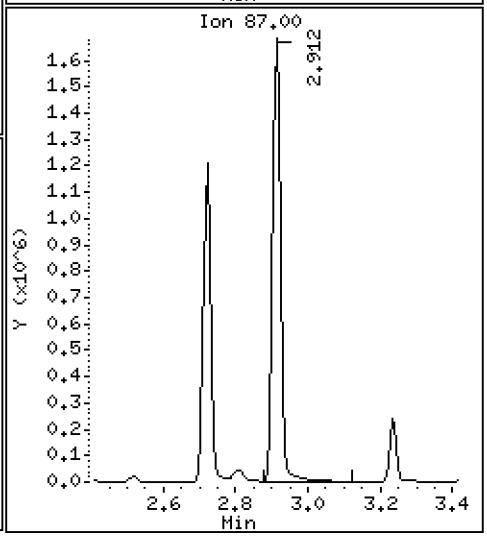


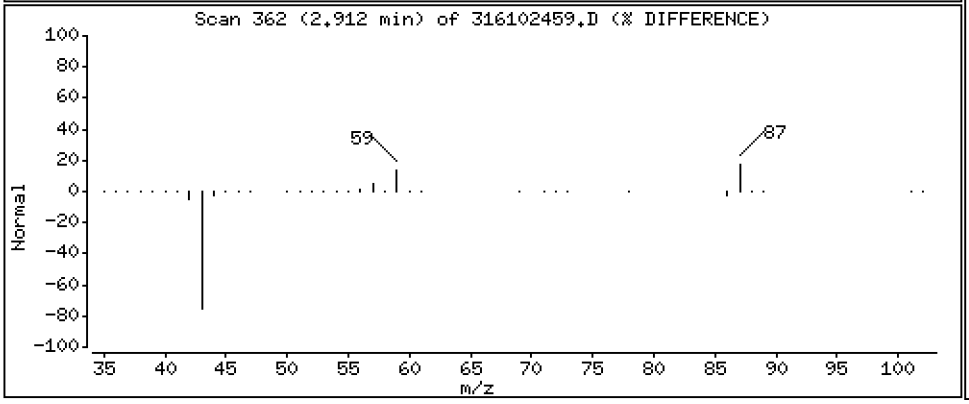












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 38

Date : 25-OCT-2016 01:36

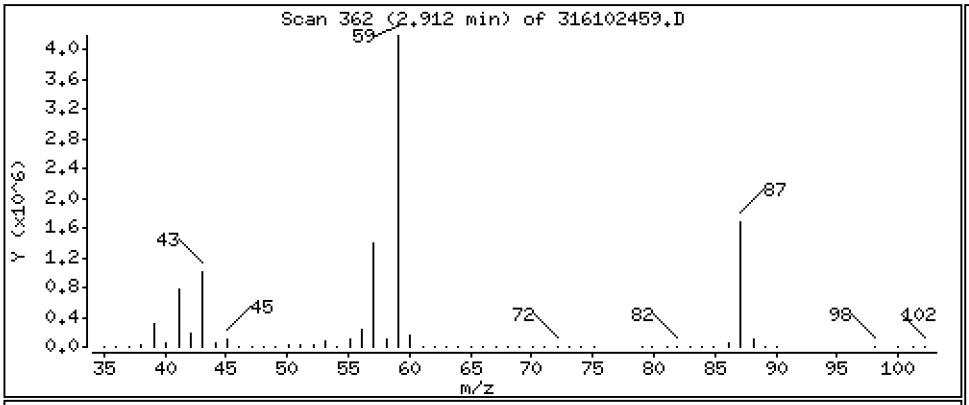
Client ID: Instrument: ms03.i

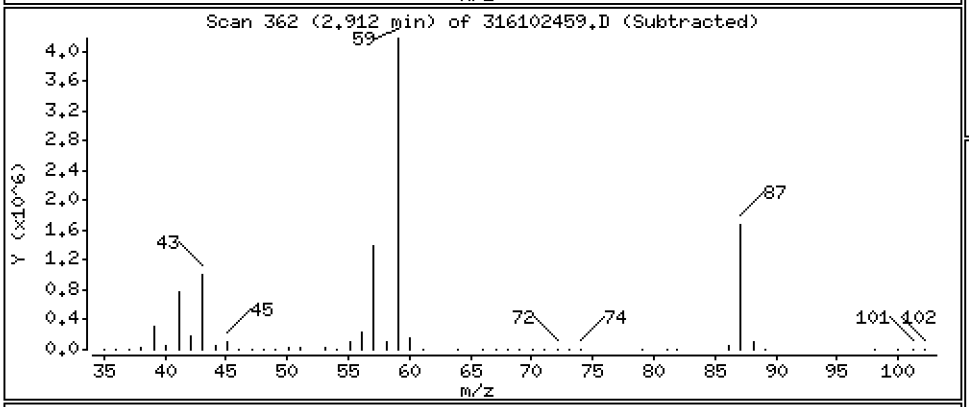
Sample Info: 1239;;1;1;6;;;

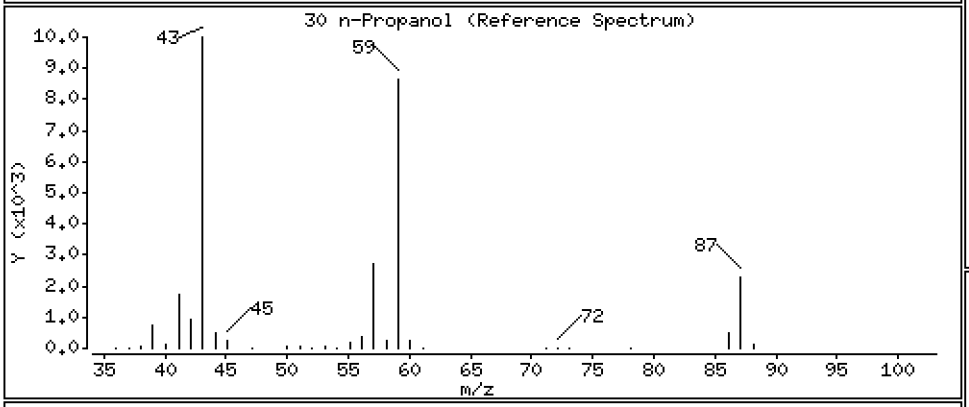
Purge Volume: 5.0 Operator: CJG

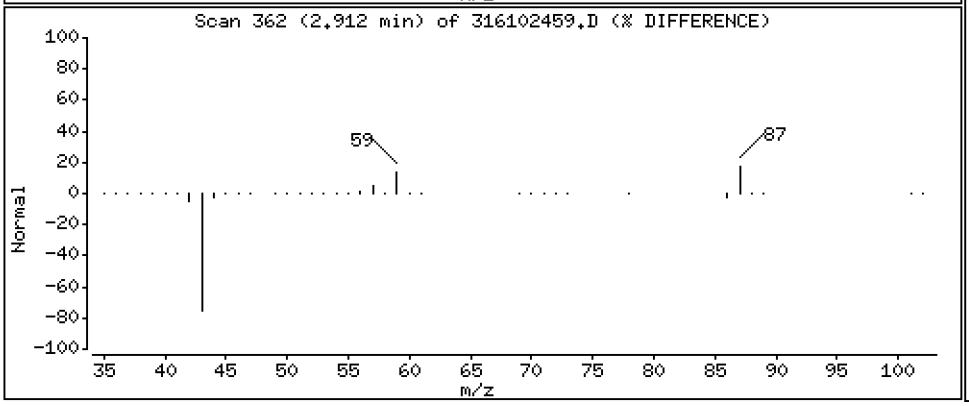
Column phase: DB-VRX Column diameter: 0.25

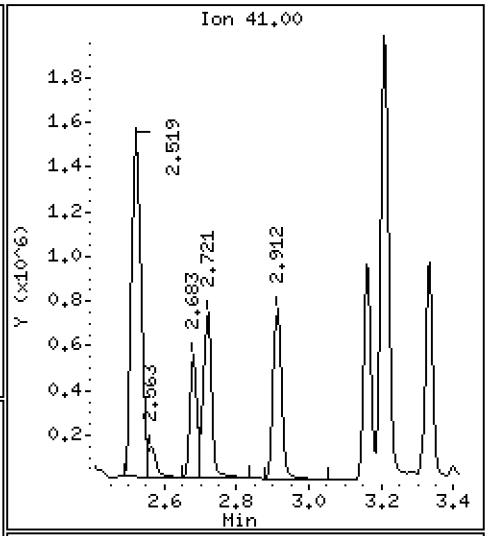
30 n-Propanol Concentration: 2000.15 ug/L

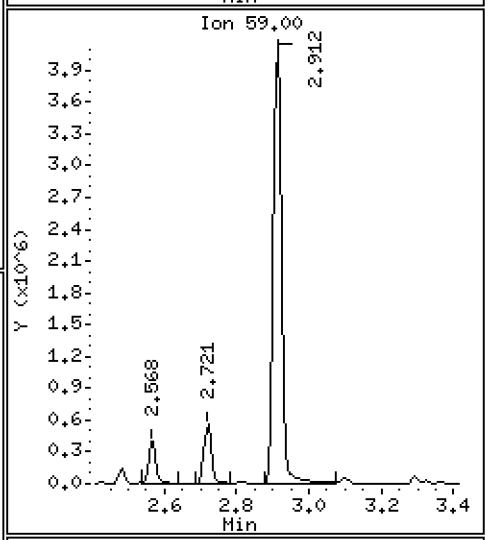


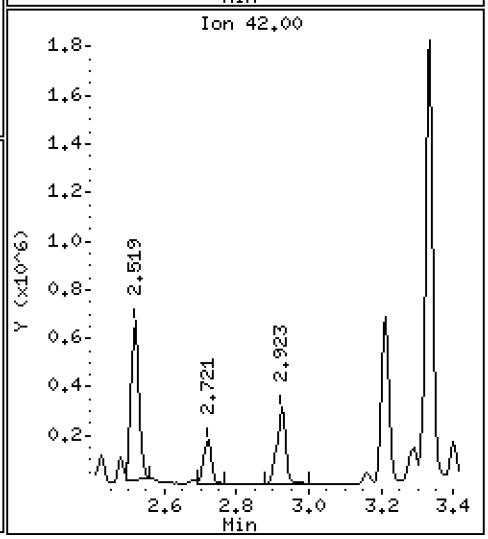












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 39

Date : 25-OCT-2016 01:36

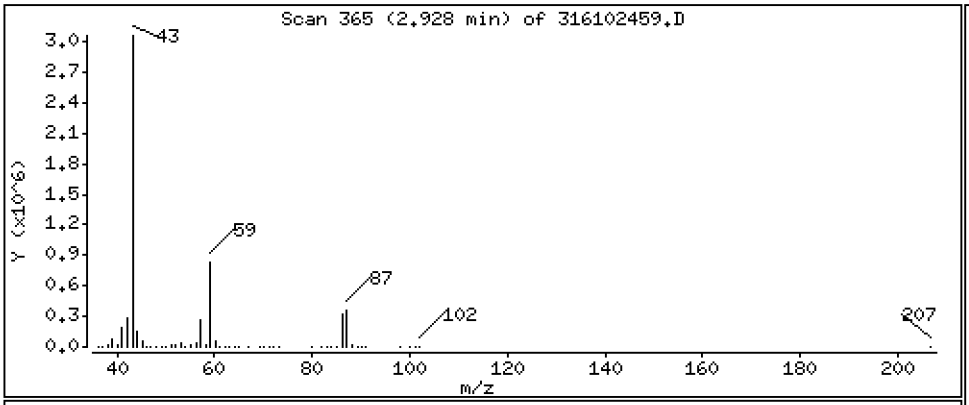
Client ID: Instrument: ms03.i

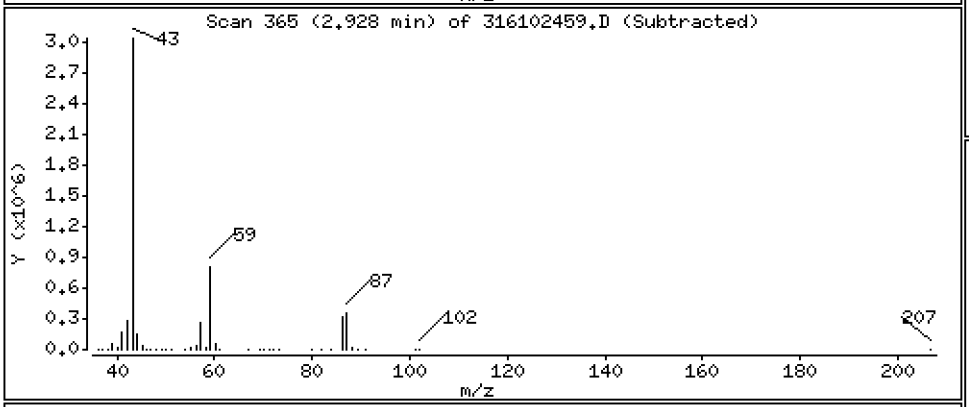
Sample Info: 1239;;1;1;6;;;

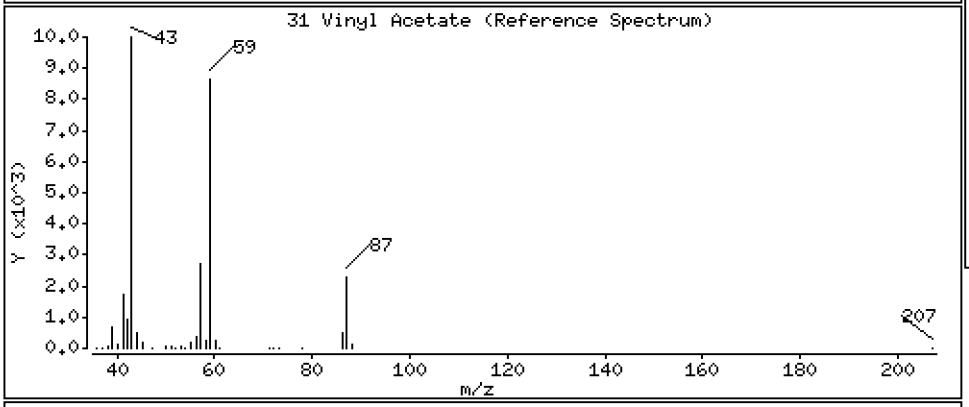
Purge Volume: 5.0 Operator: CJG

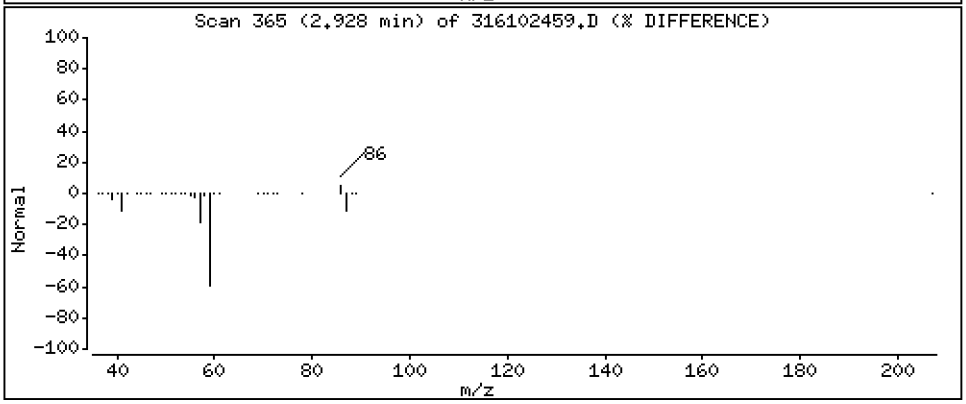
Column phase: DB-VRX Column diameter: 0.25

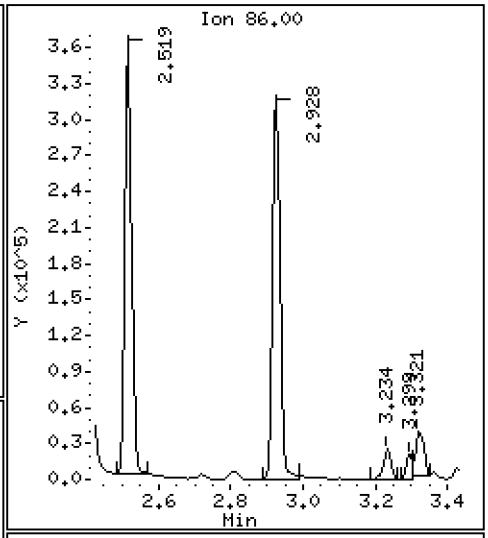
31 Vinyl Acetate Concentration: 199.840 ug/L

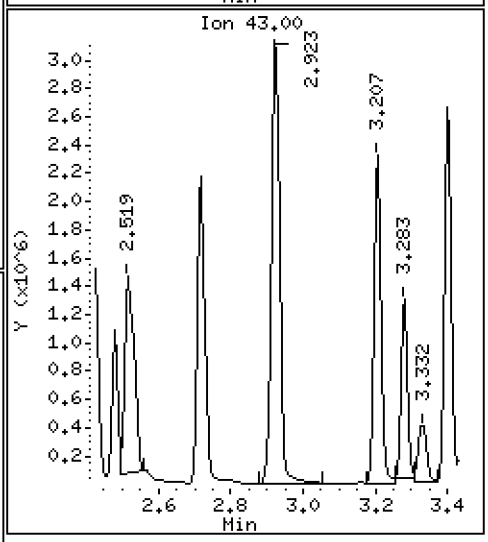












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 40

Date : 25-OCT-2016 01:36

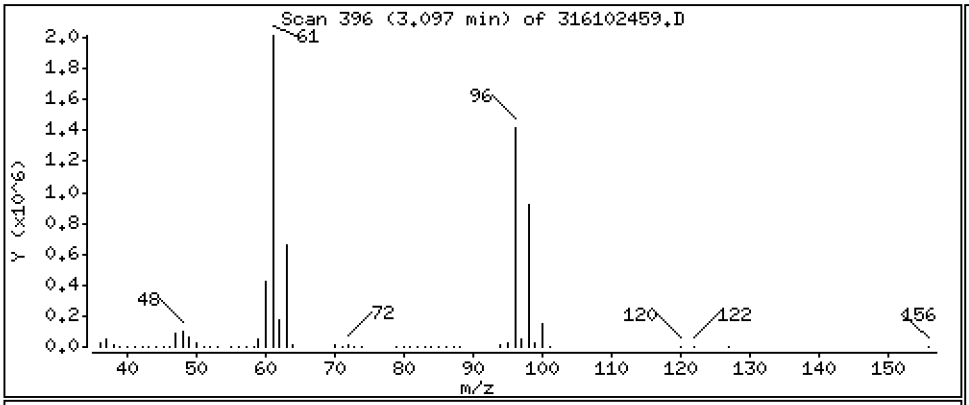
Client ID: Instrument: ms03.i

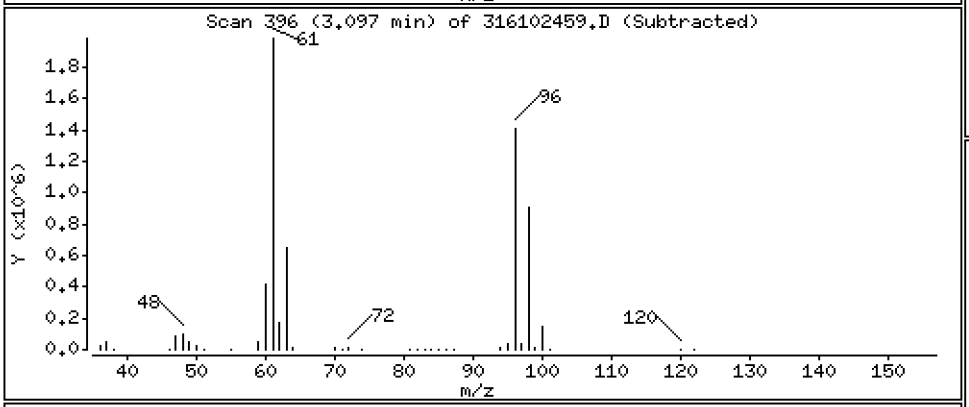
Sample Info: 1239;;1;1;6;;;

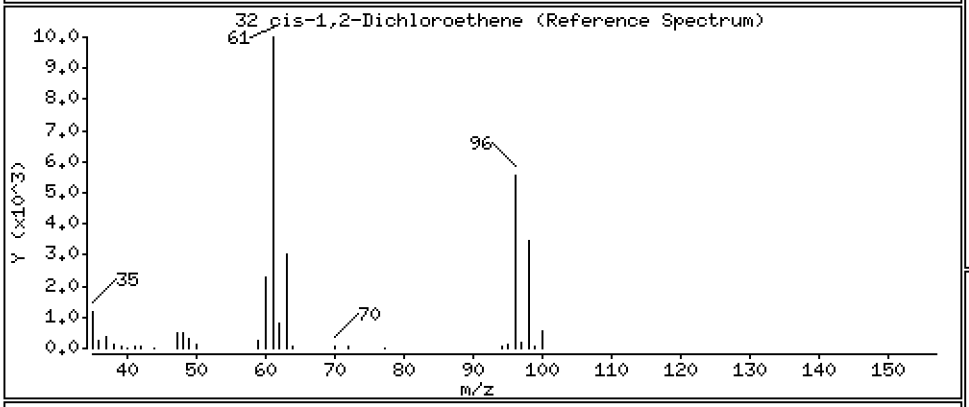
Purge Volume: 5.0 Operator: CJG

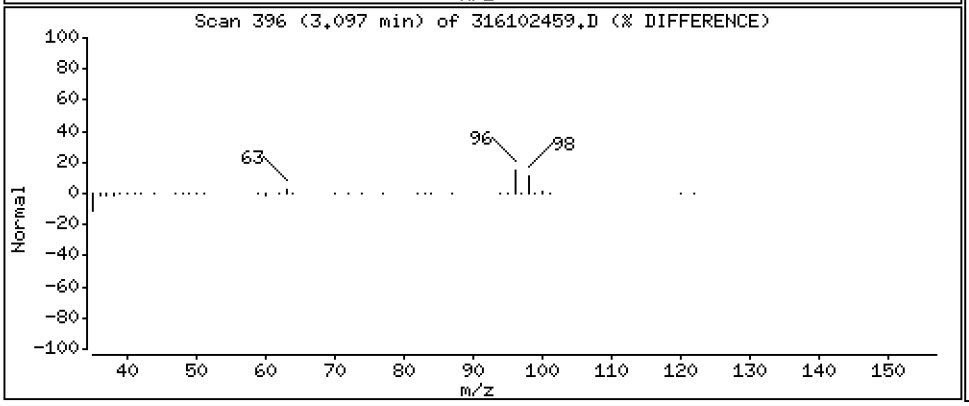
Column phase: DB-VRX Column diameter: 0.25

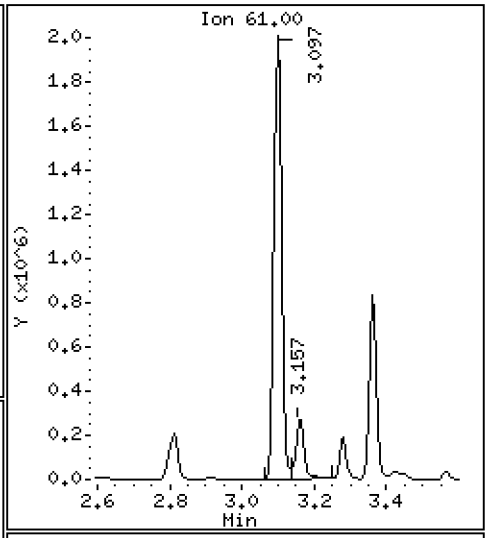
32 cis-1,2-Dichloroethene Concentration: 200.026 ug/L

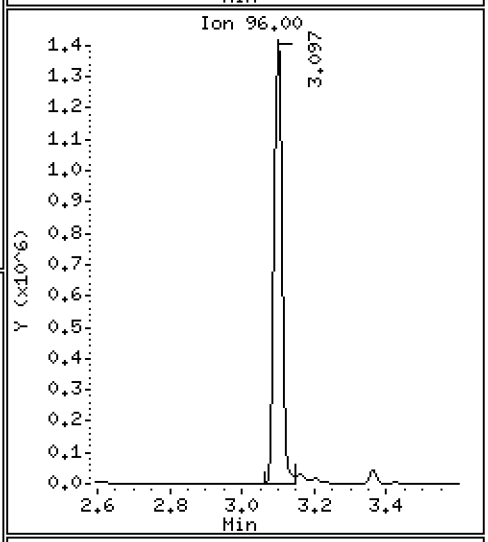


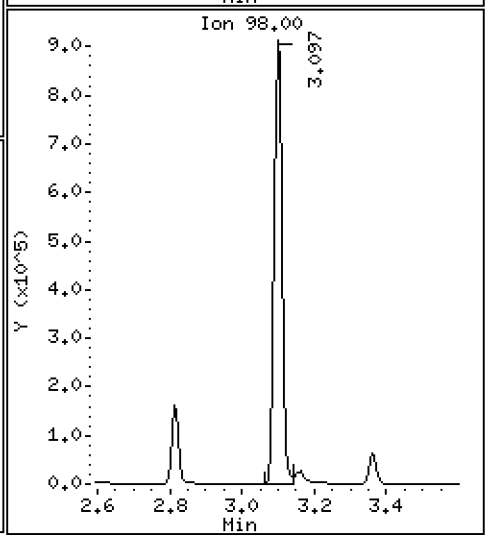












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 41

Date : 25-OCT-2016 01:36

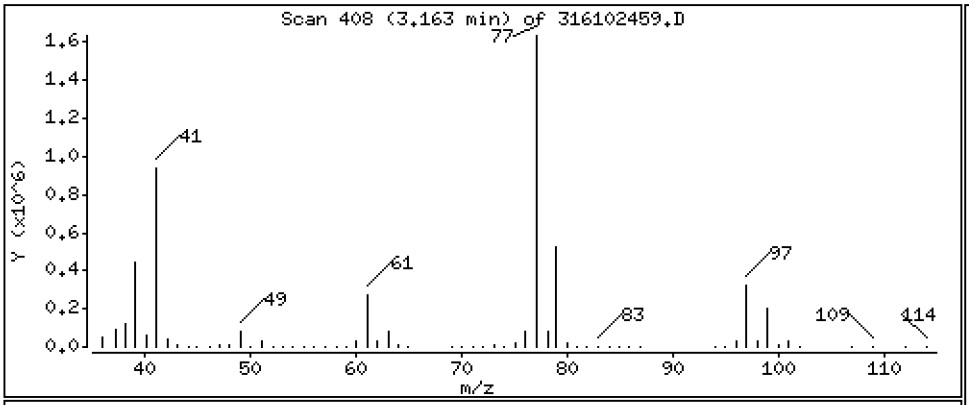
Client ID: Instrument: ms03.i

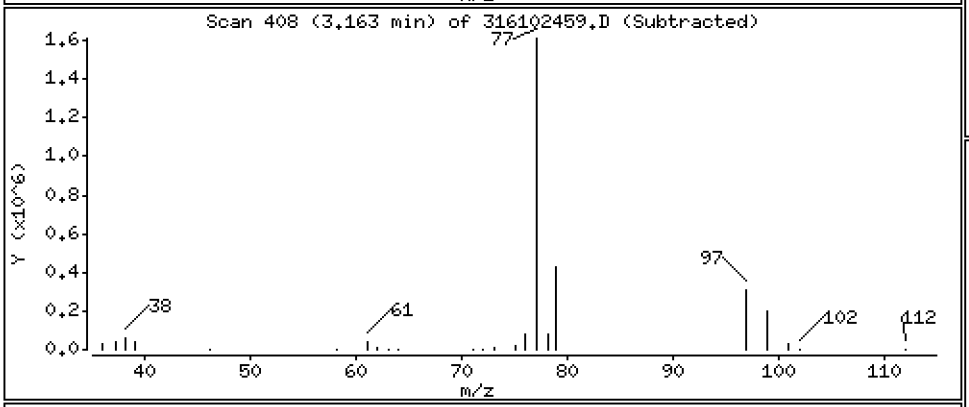
Sample Info: 1239;;1;1;6;;;

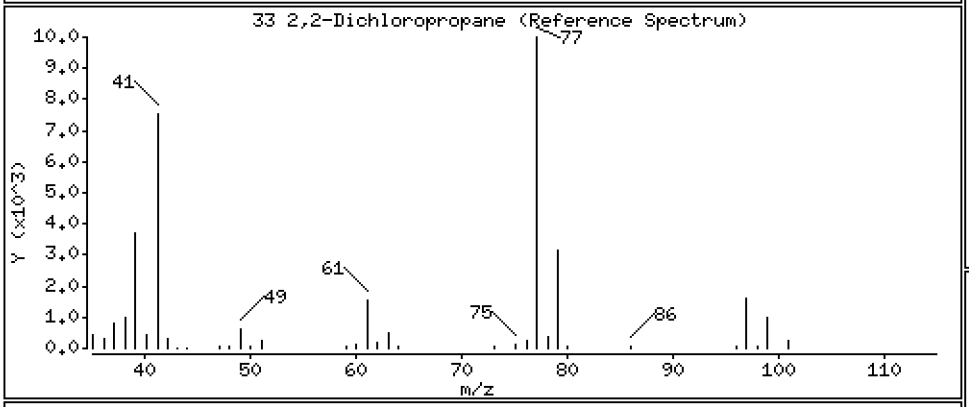
Purge Volume: 5.0 Operator: CJG

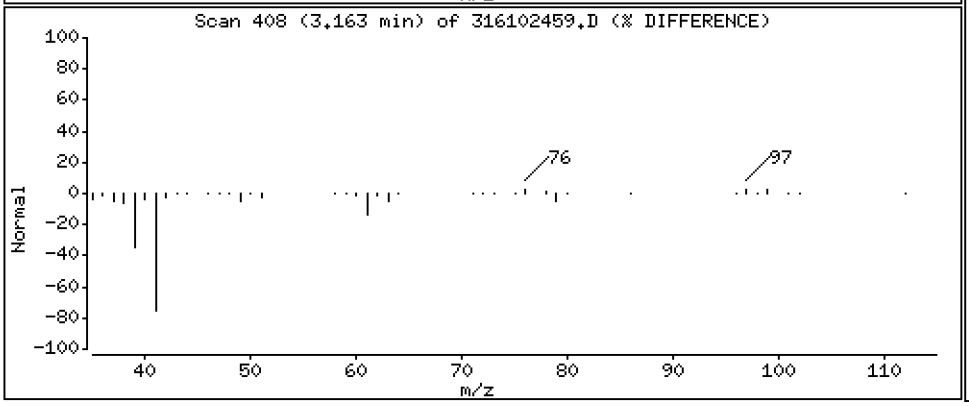
Column phase: DB-VRX Column diameter: 0.25

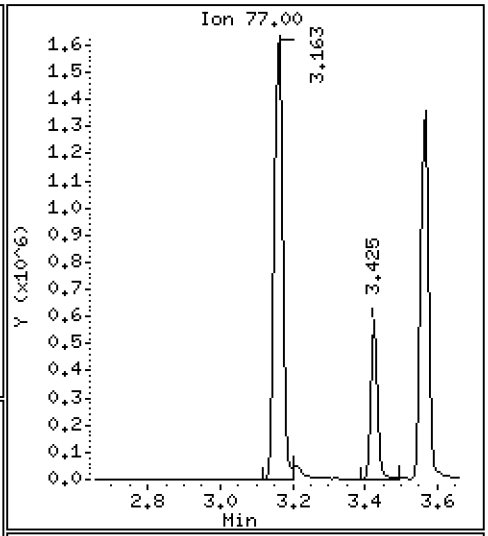
33 2,2-Dichloropropane Concentration: 199.927 ug/L

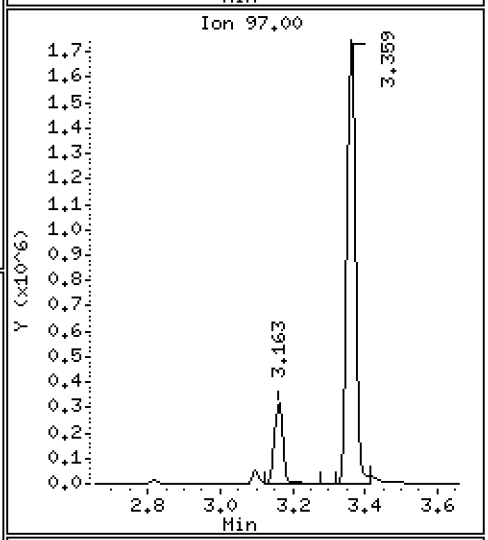


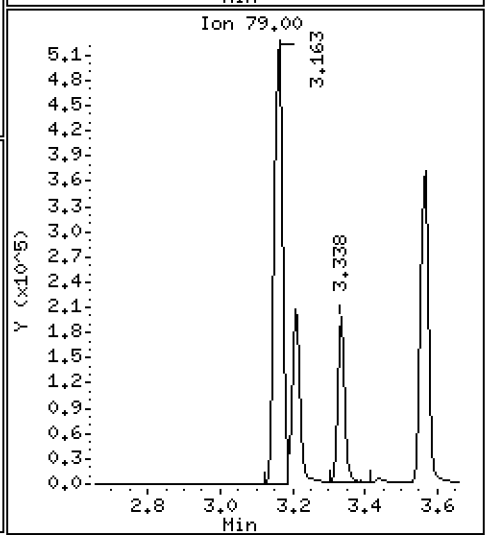












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 42

Date : 25-OCT-2016 01:36

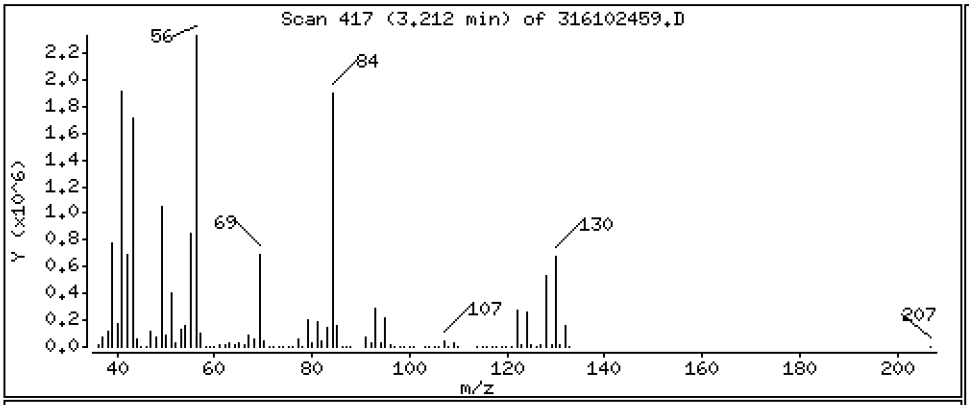
Client ID: Instrument: ms03.i

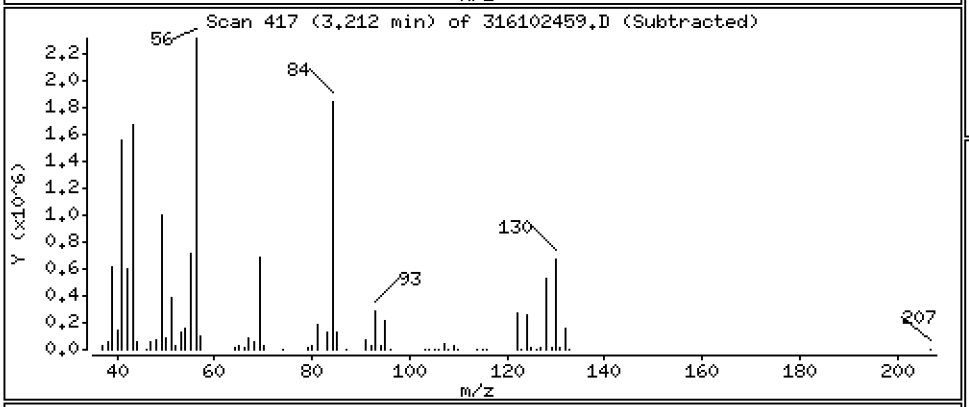
Sample Info: 1239;;1;1;6;;;

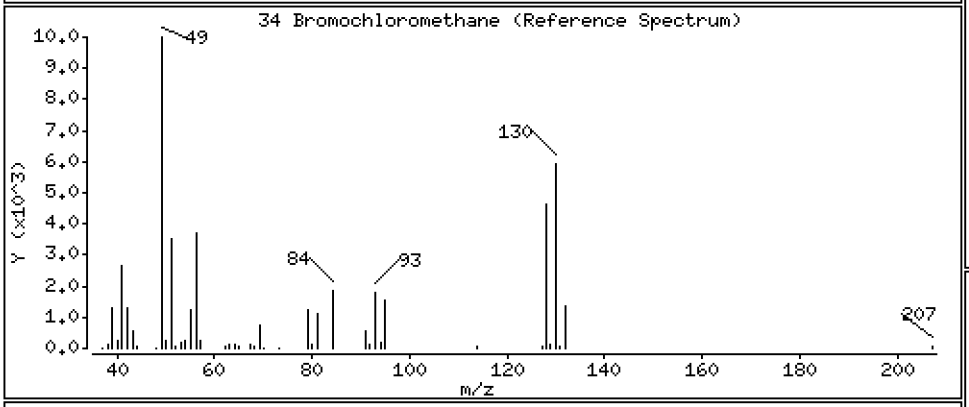
Purge Volume: 5.0 Operator: CJG

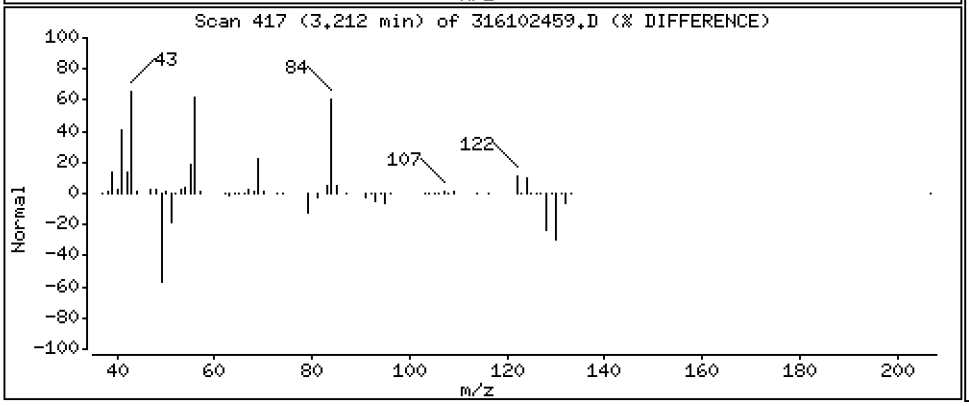
Column phase: DB-VRX Column diameter: 0.25

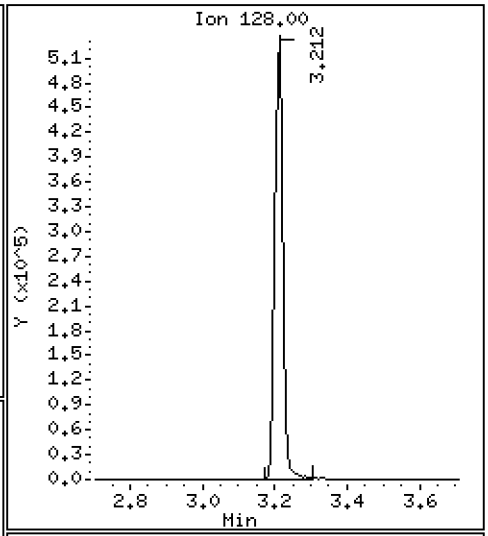
34 Bromochloromethane Concentration: 199.684 ug/L

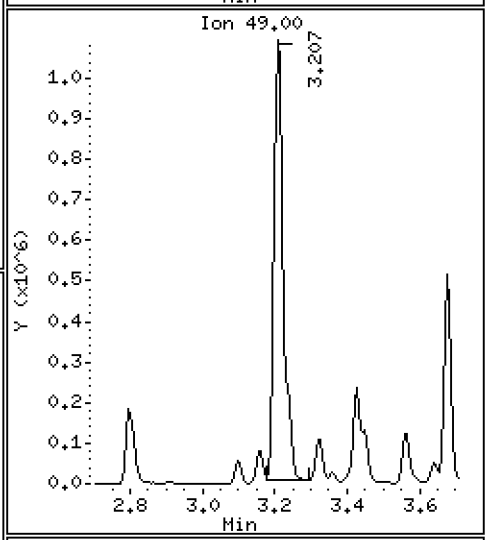


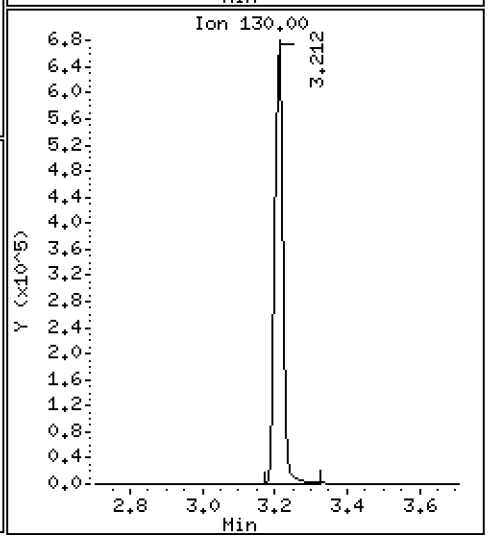












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 43

Date : 25-OCT-2016 01:36

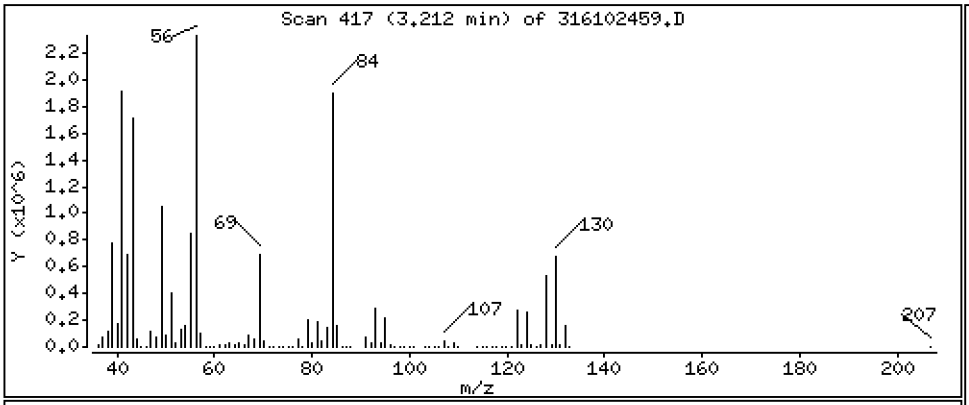
Client ID: Instrument: ms03.i

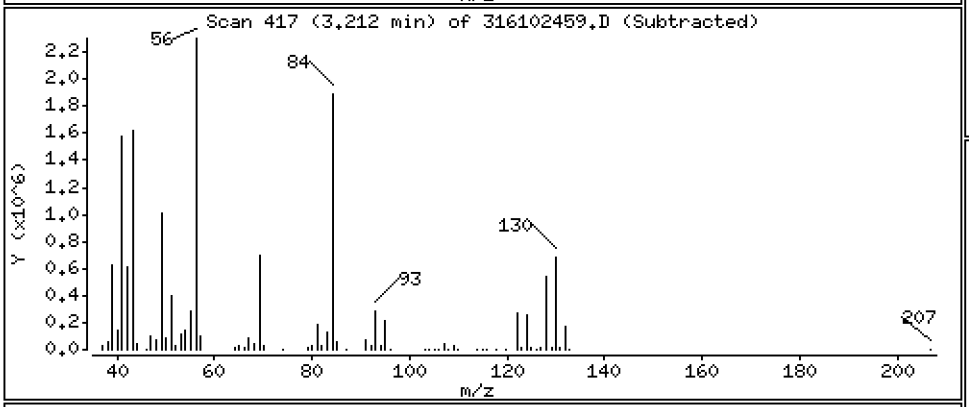
Sample Info: 1239;;1;1;6;;;

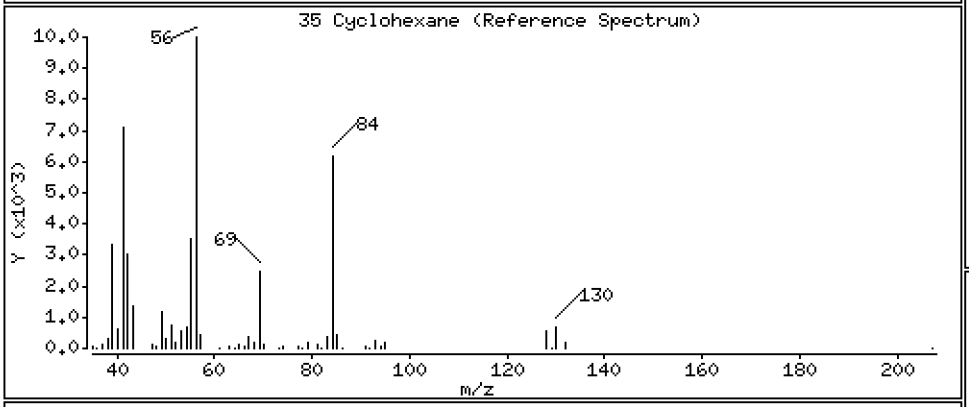
Purge Volume: 5.0 Operator: CJG

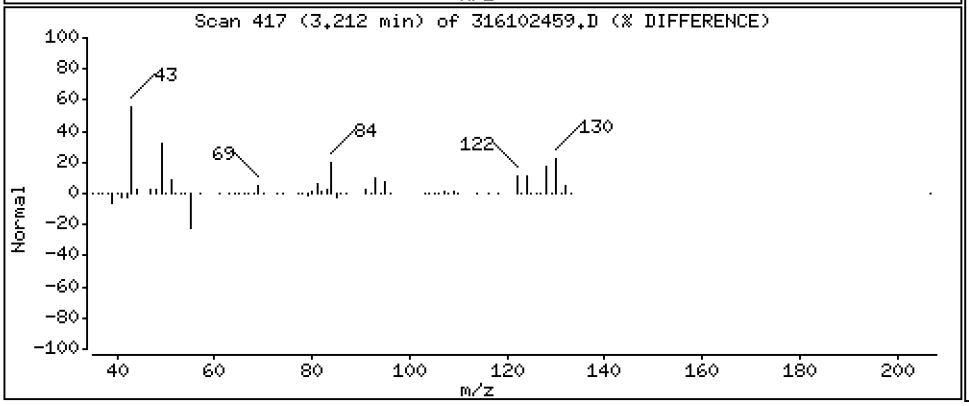
Column phase: DB-VRX Column diameter: 0.25

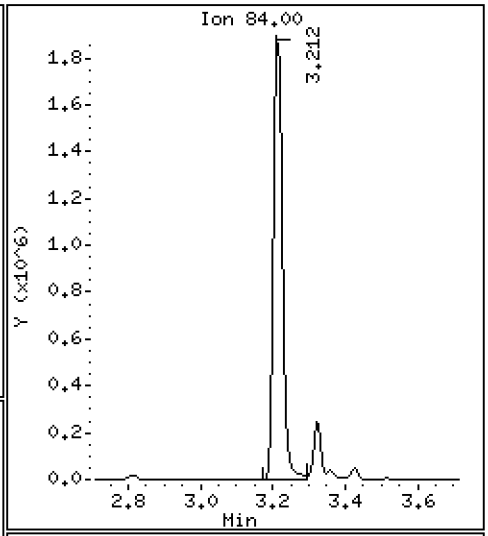
35 Cyclohexane Concentration: 200.114 ug/L

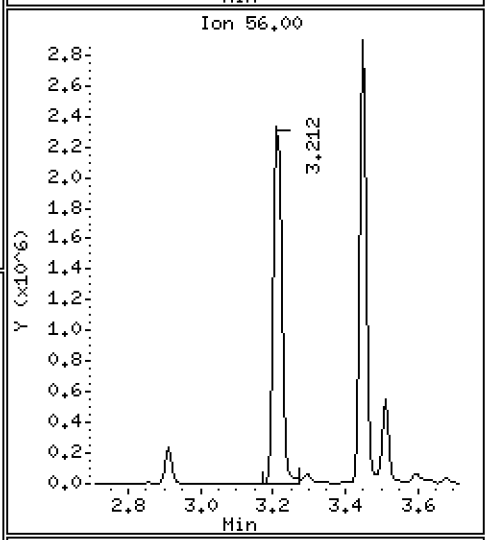


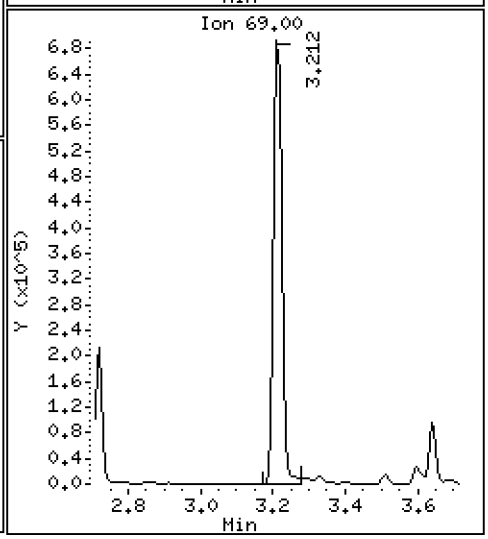












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 44

Date : 25-OCT-2016 01:36

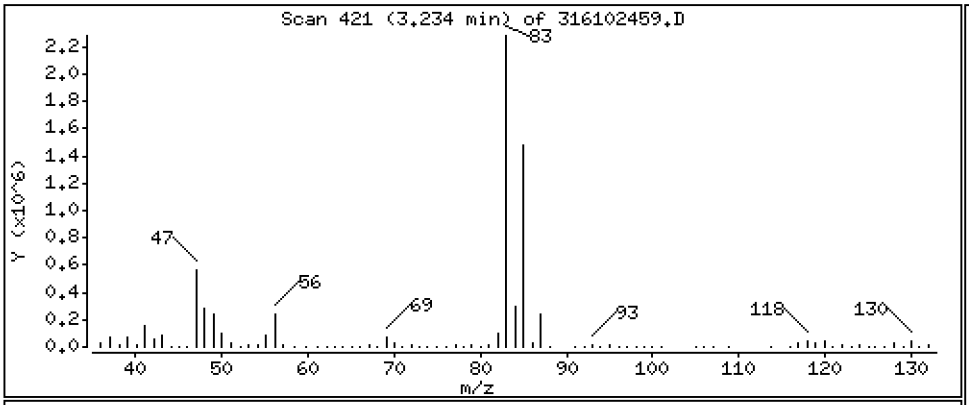
Client ID: Instrument: ms03.i

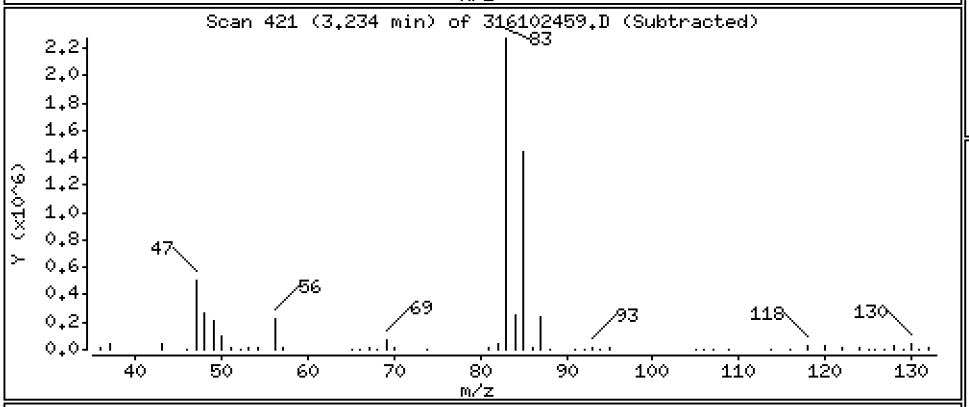
Sample Info: 1239;;1;1;6;;;

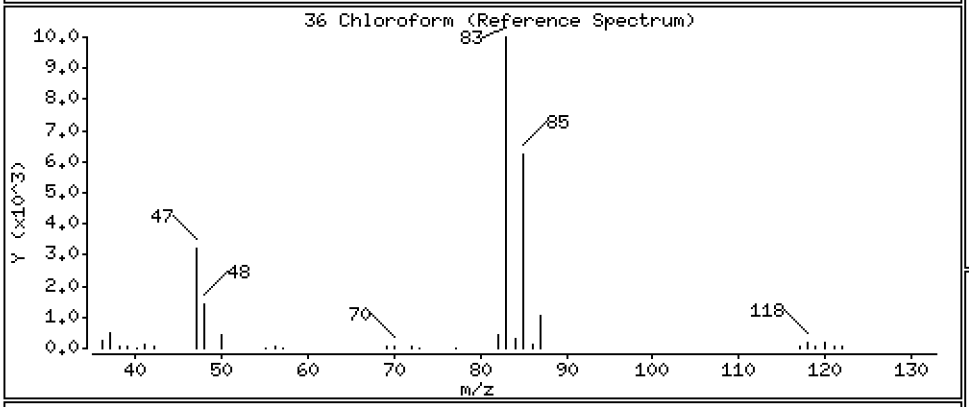
Purge Volume: 5.0 Operator: CJG

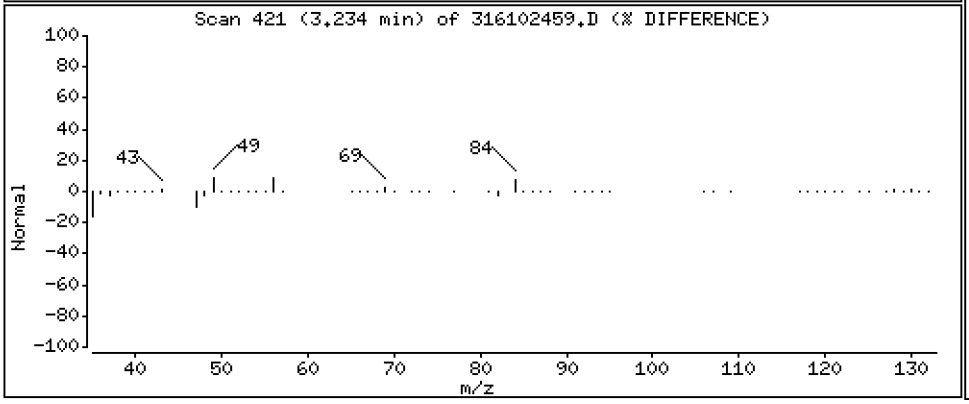
Column phase: DB-VRX Column diameter: 0.25

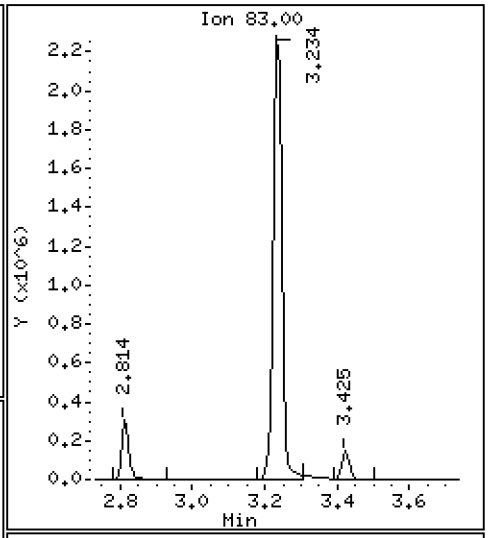
36 Chloroform Concentration: 200.129 ug/L

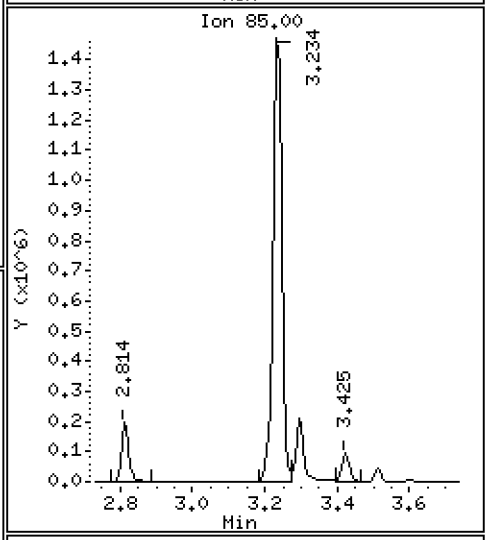


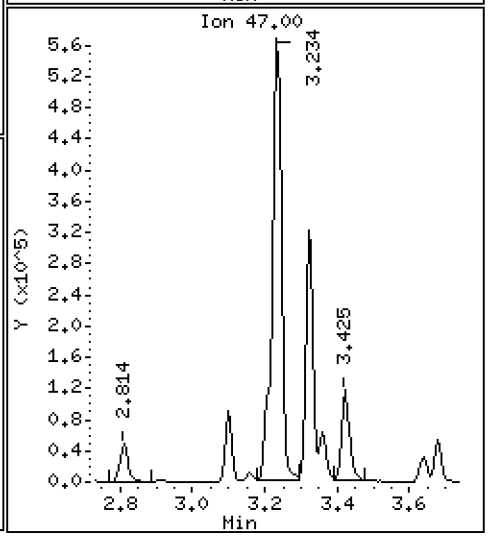












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 45

Date : 25-OCT-2016 01:36

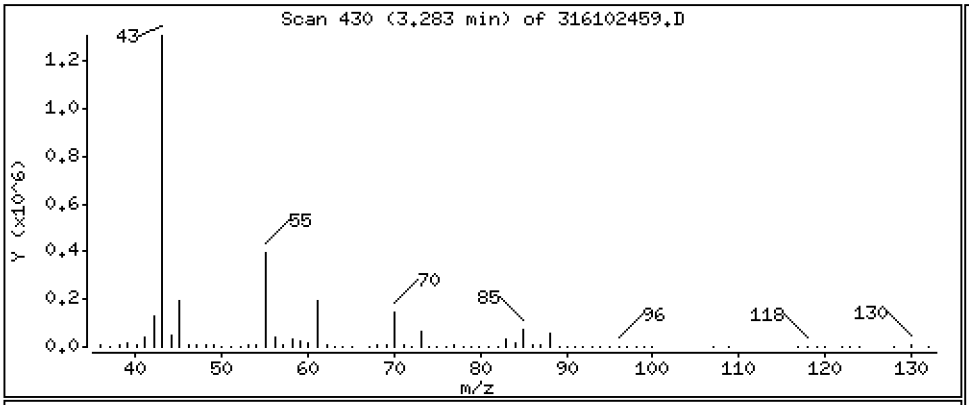
Client ID: Instrument: ms03.i

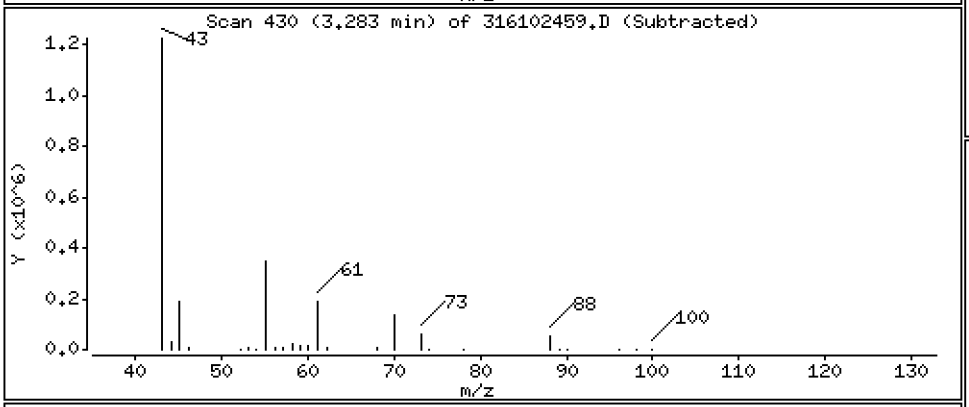
Sample Info: 1239;;1;1;6;;;

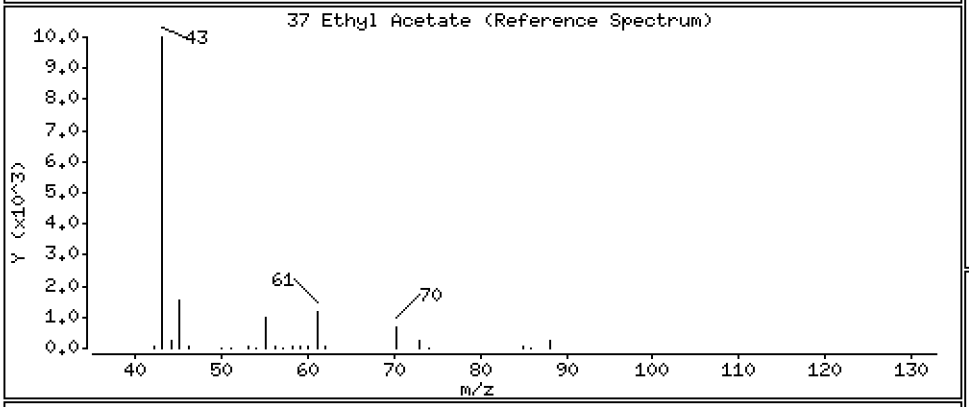
Purge Volume: 5.0 Operator: CJG

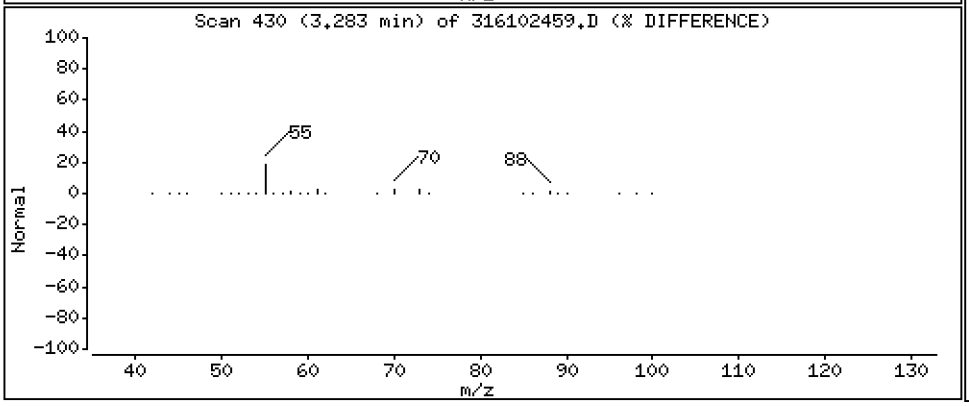
Column phase: DB-VRX Column diameter: 0.25

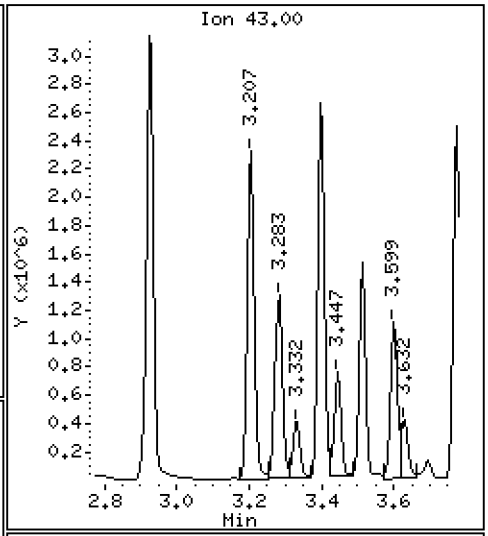
37 Ethyl Acetate Concentration: 200.015 ug/L

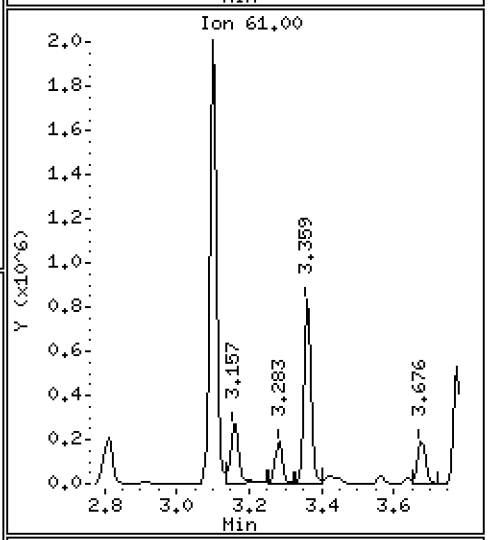


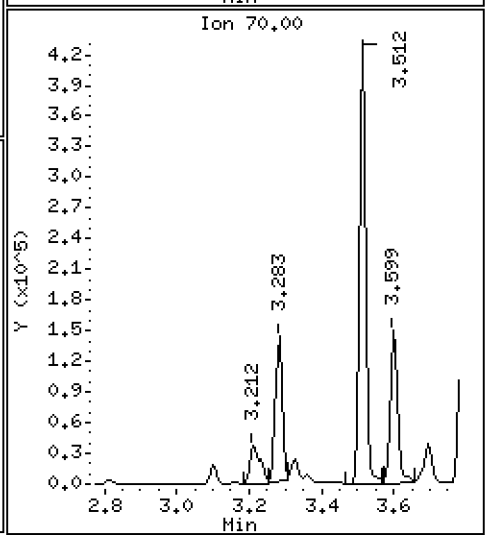












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 46

Date : 25-OCT-2016 01:36

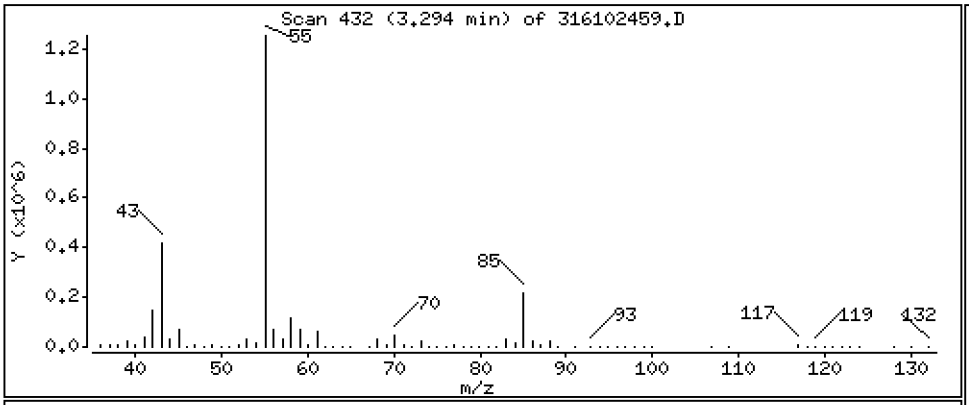
Client ID: Instrument: ms03.i

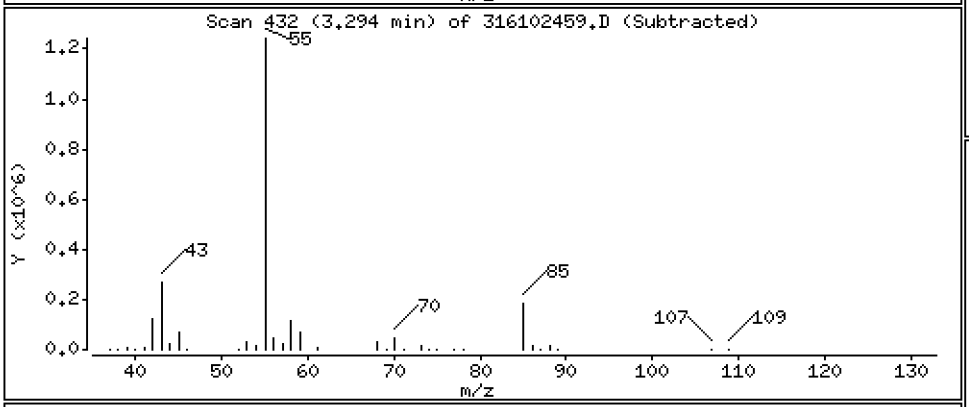
Sample Info: 1239;;1;1;6;;;

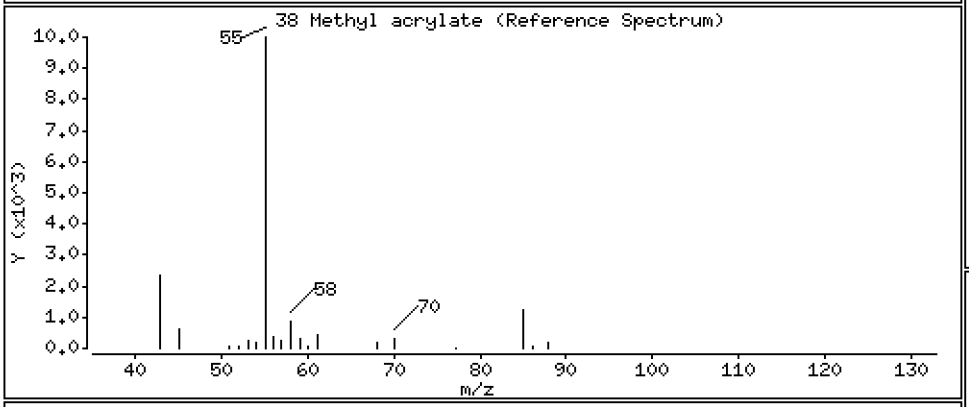
Purge Volume: 5.0 Operator: CJG

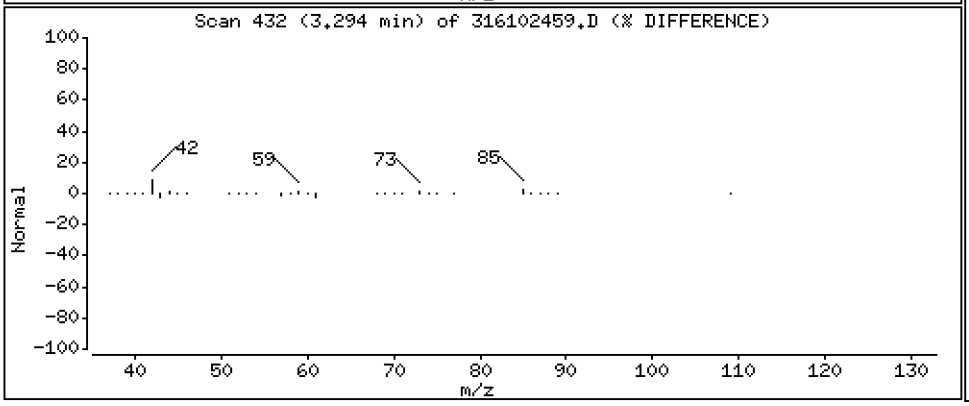
Column phase: DB-VRX Column diameter: 0.25

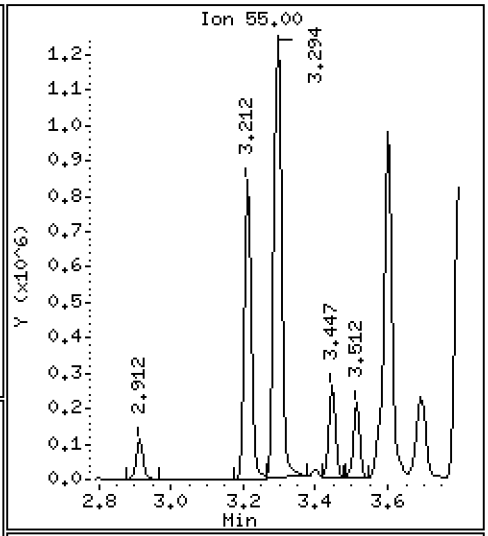
38 Methyl acrylate Concentration: 199.986 ug/L

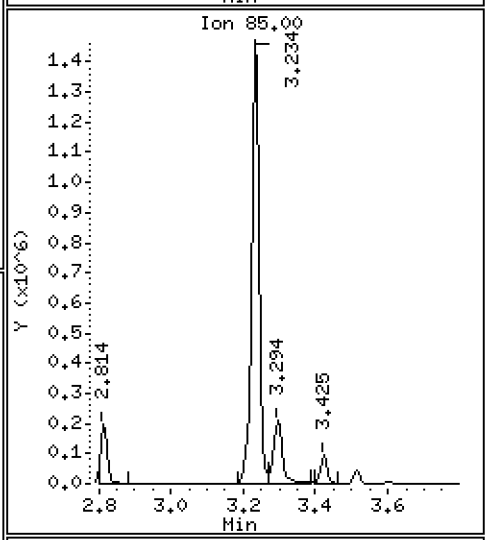


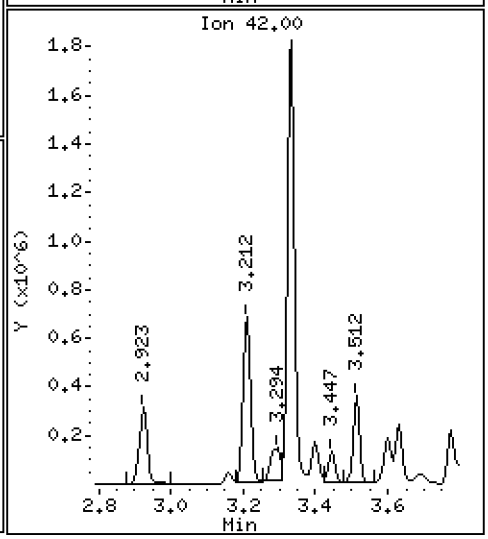












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 47

Date : 25-OCT-2016 01:36

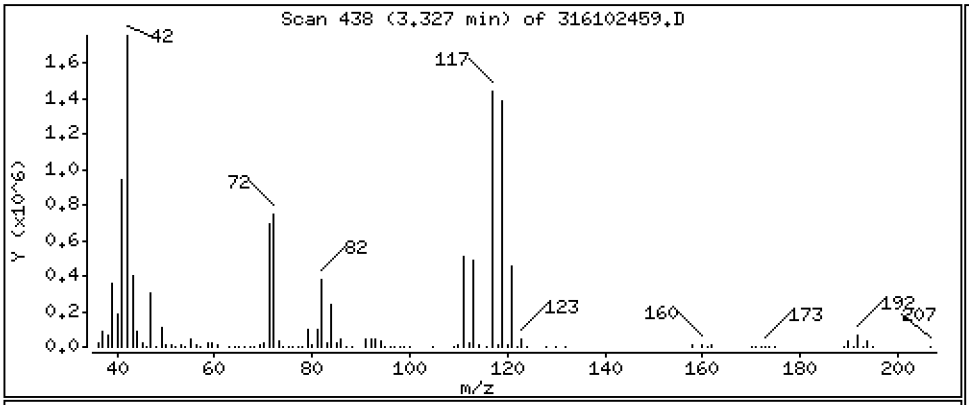
Client ID: Instrument: ms03.i

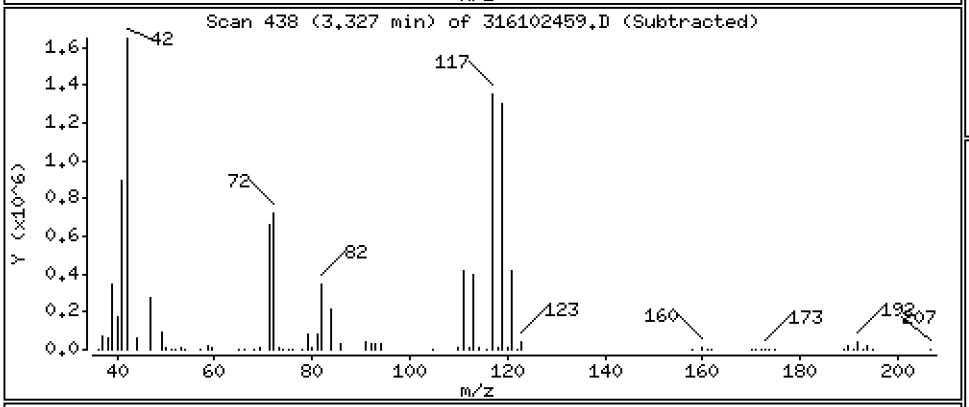
Sample Info: 1239;;1;1;6;;;

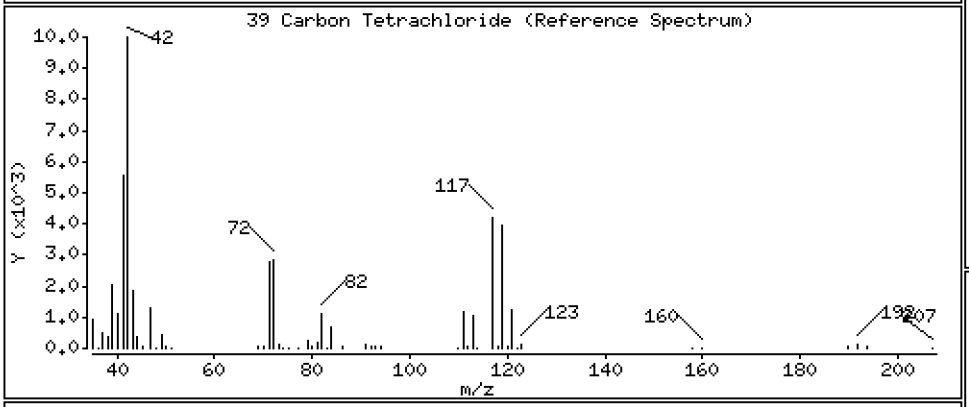
Purge Volume: 5.0 Operator: CJG

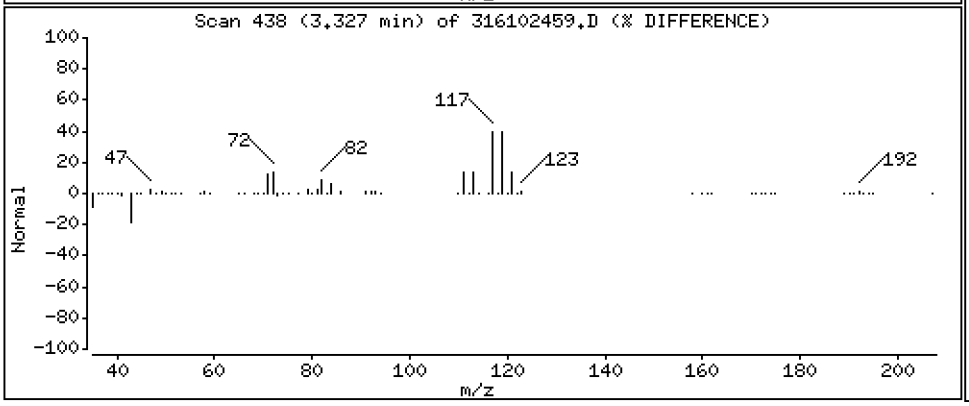
Column phase: DB-VRX Column diameter: 0.25

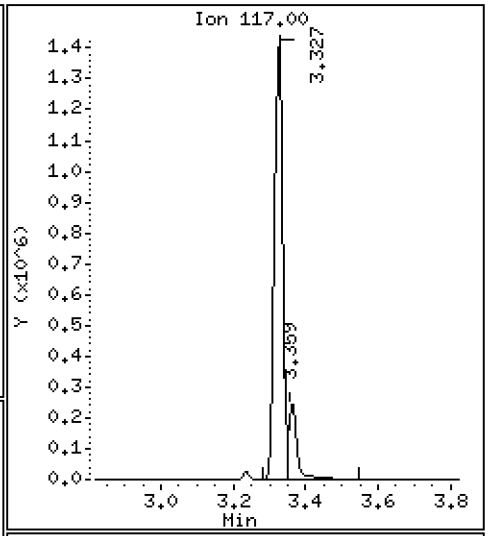
39 Carbon Tetrachloride Concentration: 199.971 ug/L

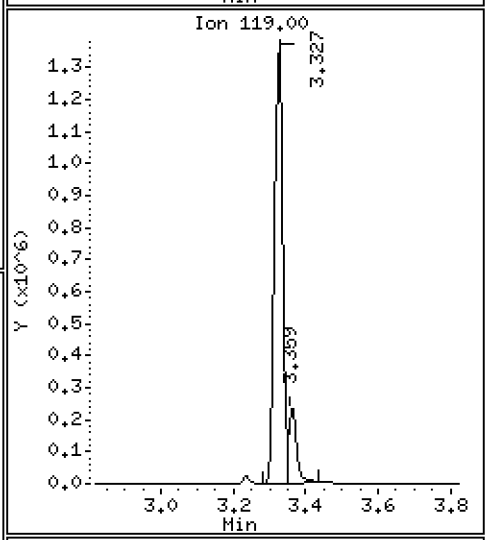


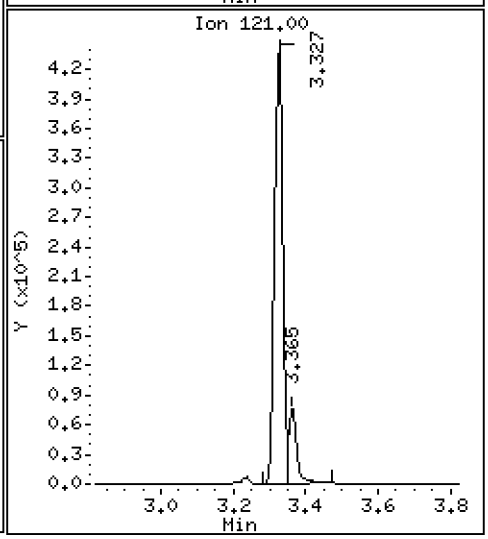












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 48

Date : 25-OCT-2016 01:36

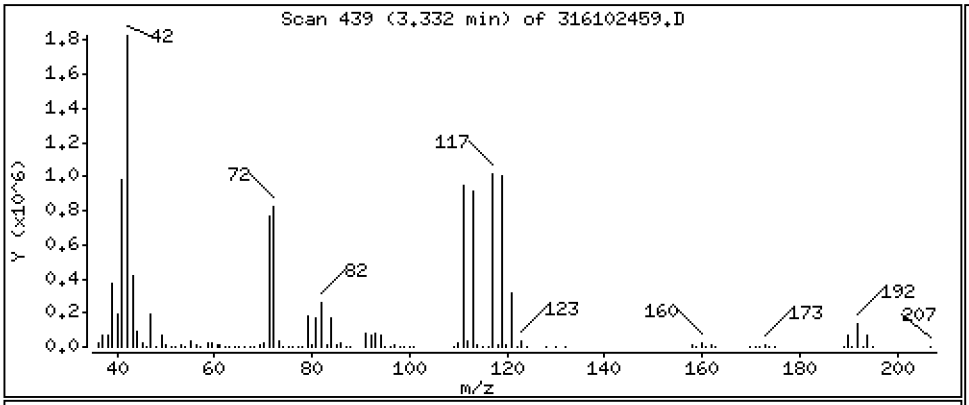
Client ID: Instrument: ms03.i

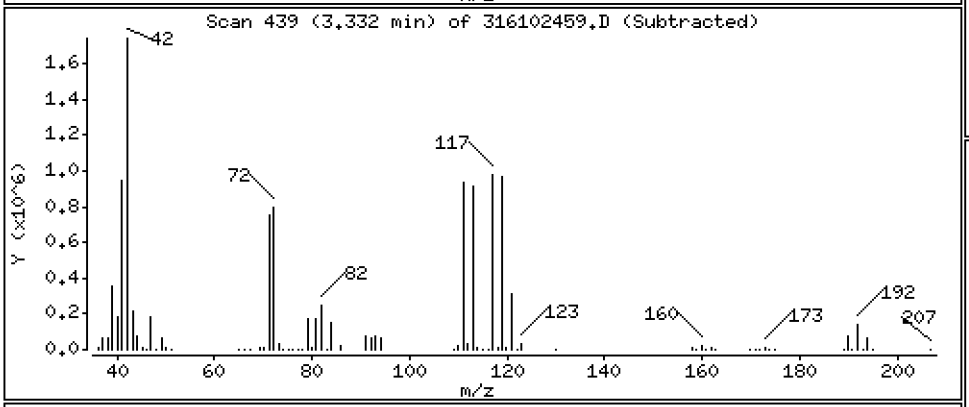
Sample Info: 1239;;1;1;6;;;

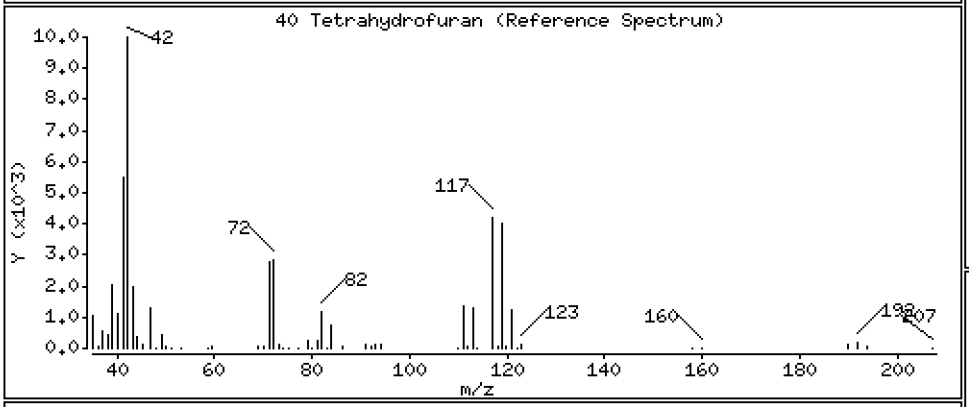
Purge Volume: 5.0 Operator: CJG

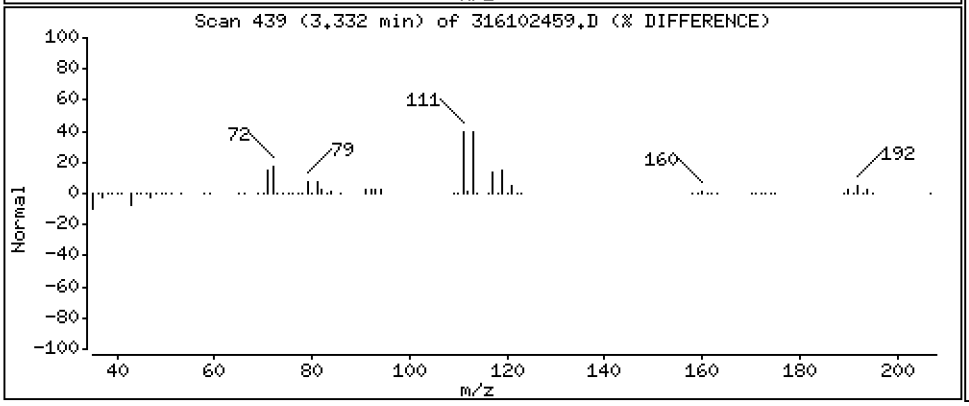
Column phase: DB-VRX Column diameter: 0.25

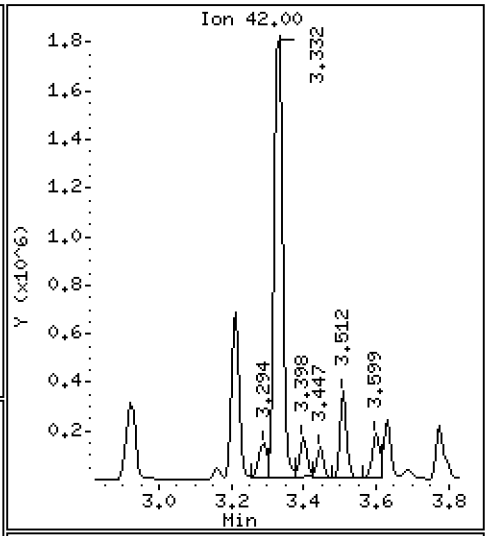
40 Tetrahydrofuran Concentration: 1000.65 ug/L

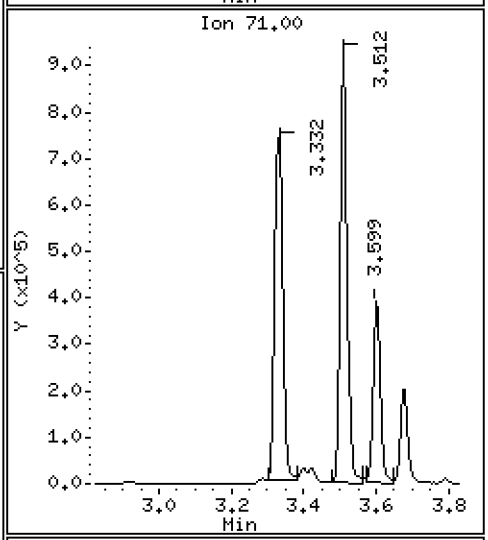


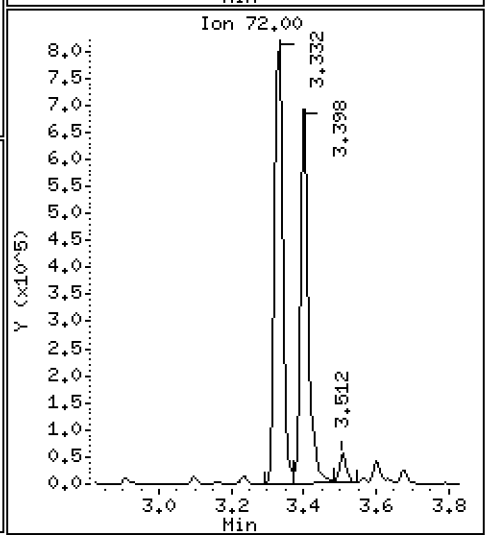












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 49

Date : 25-OCT-2016 01:36

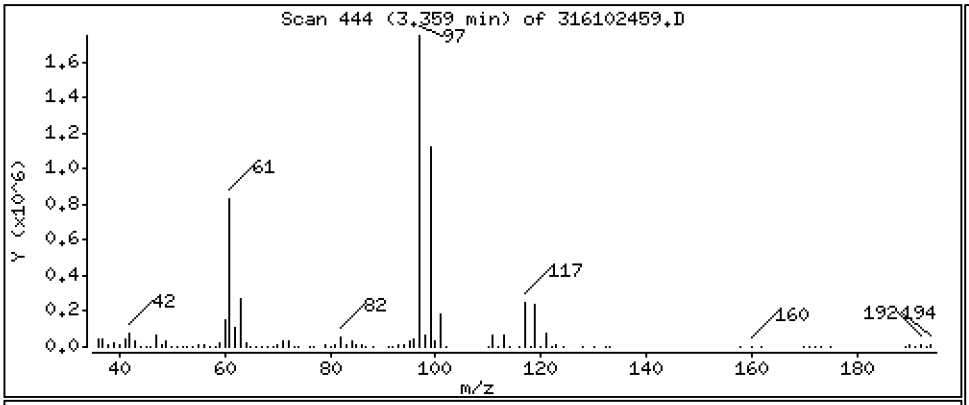
Client ID: Instrument: ms03.i

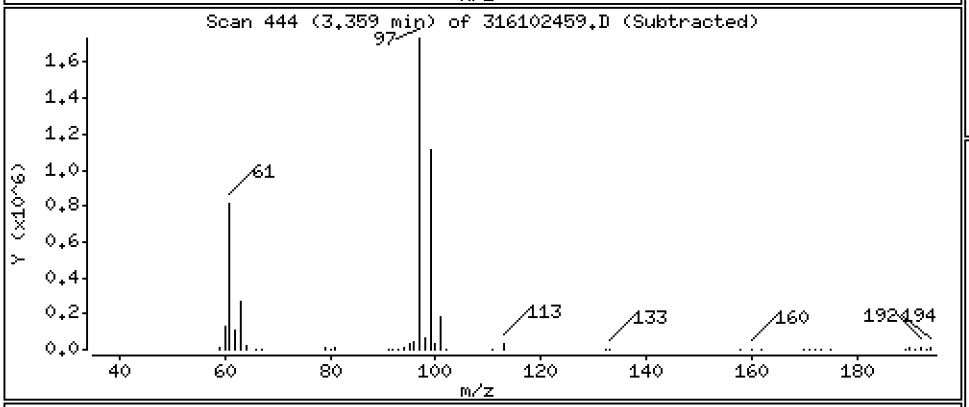
Sample Info: 1239;;1;1;6;;;

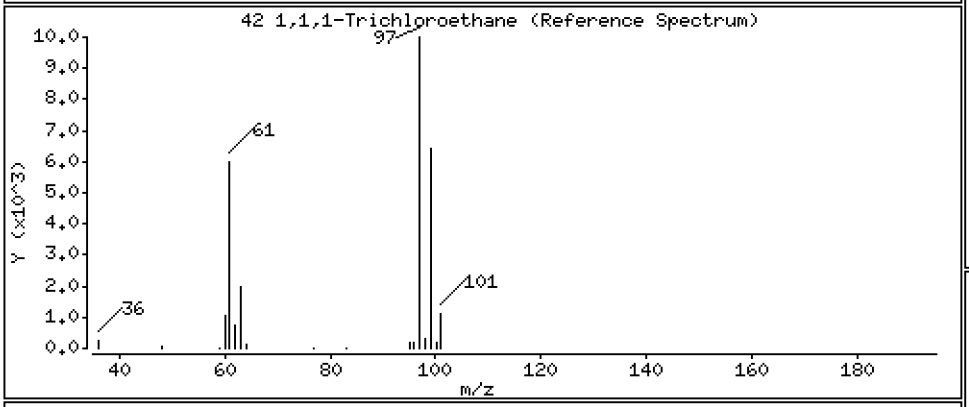
Purge Volume: 5.0 Operator: CJG

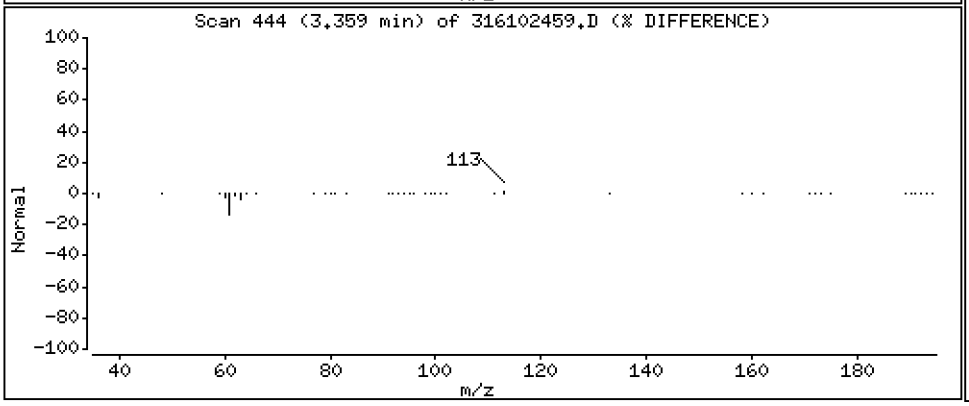
Column phase: DB-VRX Column diameter: 0.25

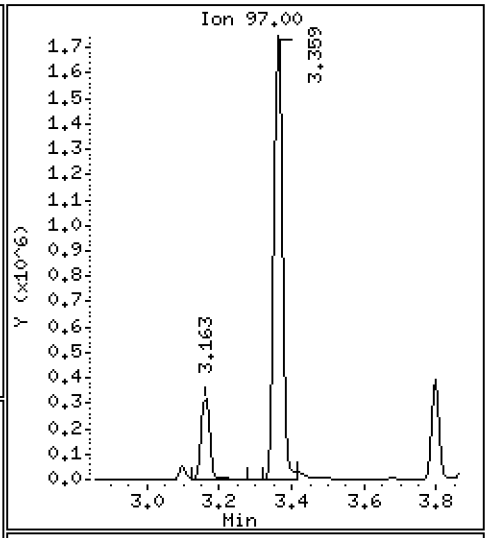
42 1,1,1-Trichloroethane Concentration: 199.871 ug/L

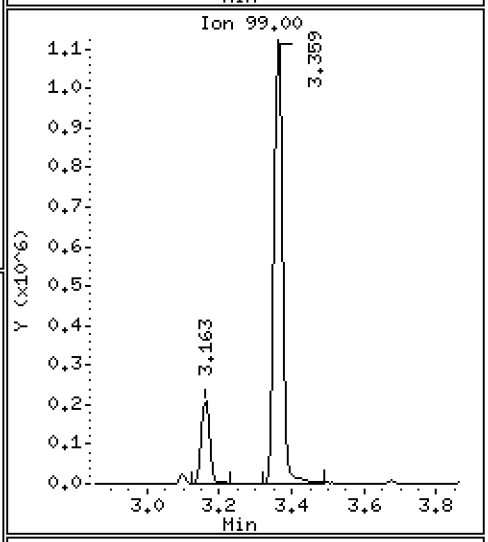


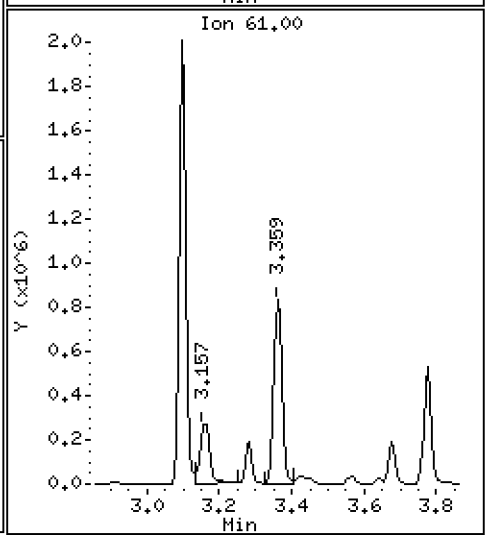












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 50

Date : 25-OCT-2016 01:36

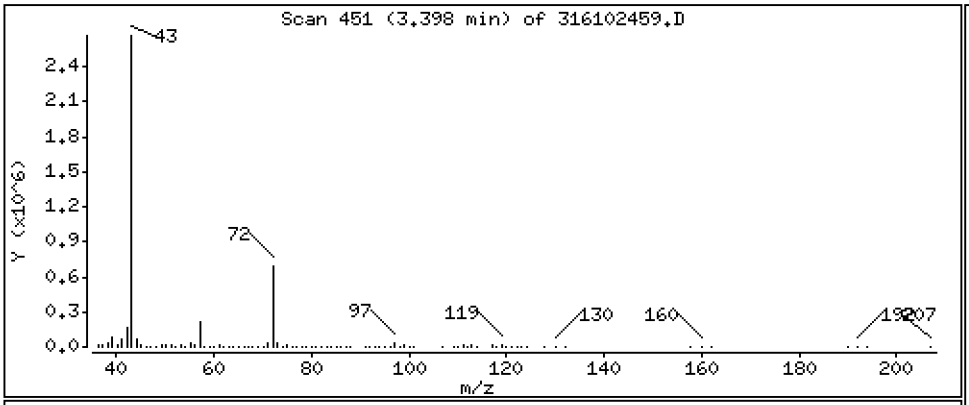
Client ID: Instrument: ms03.i

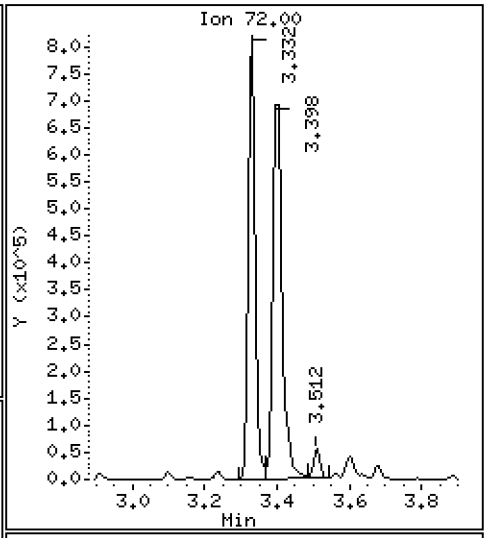
Sample Info: 1239;;1;1;6;;;

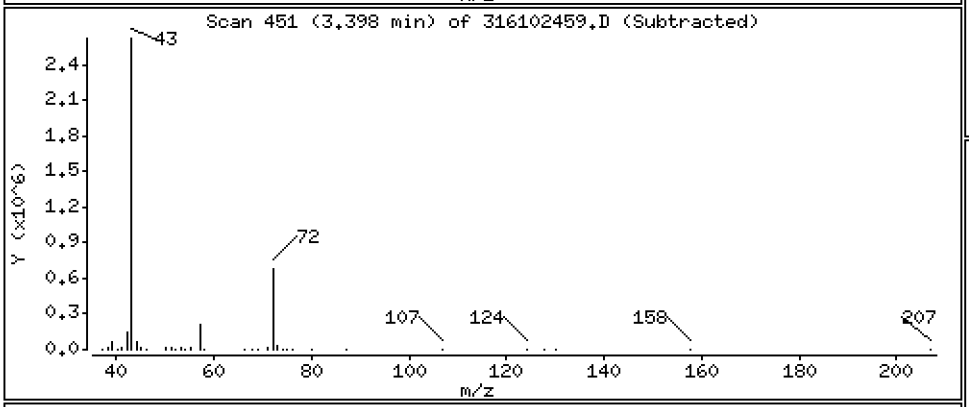
Purge Volume: 5.0 Operator: CJG

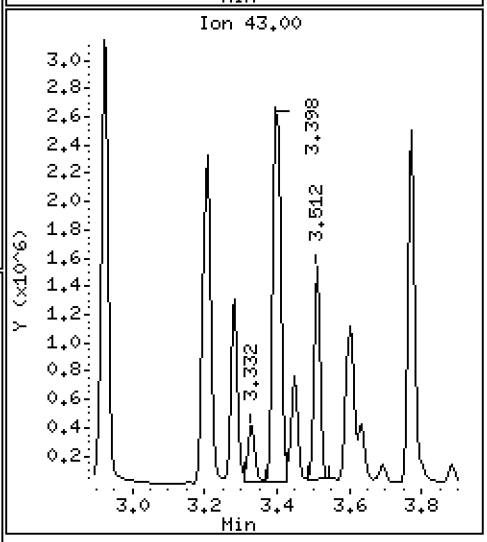
Column phase: DB-VRX Column diameter: 0.25

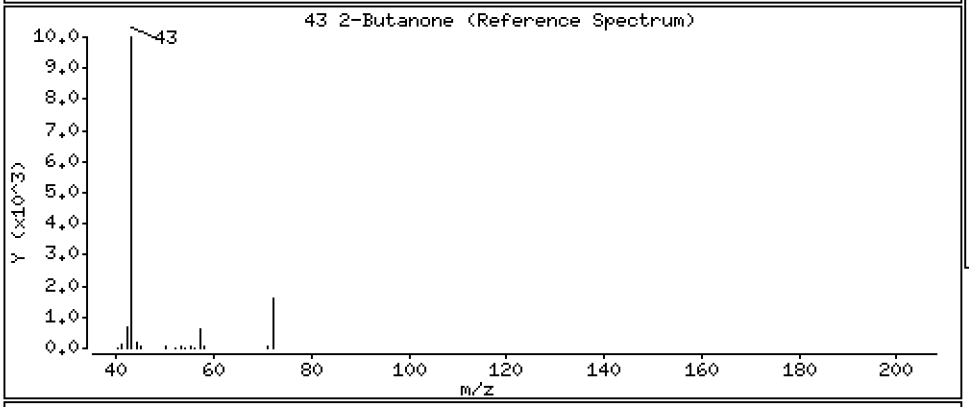
43 2-Butanone Concentration: 1000.52 ug/L

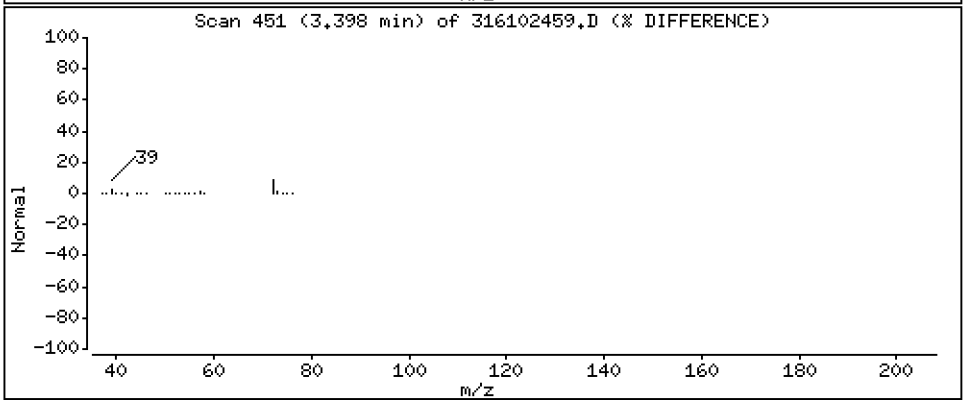












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 51

Date : 25-OCT-2016 01:36

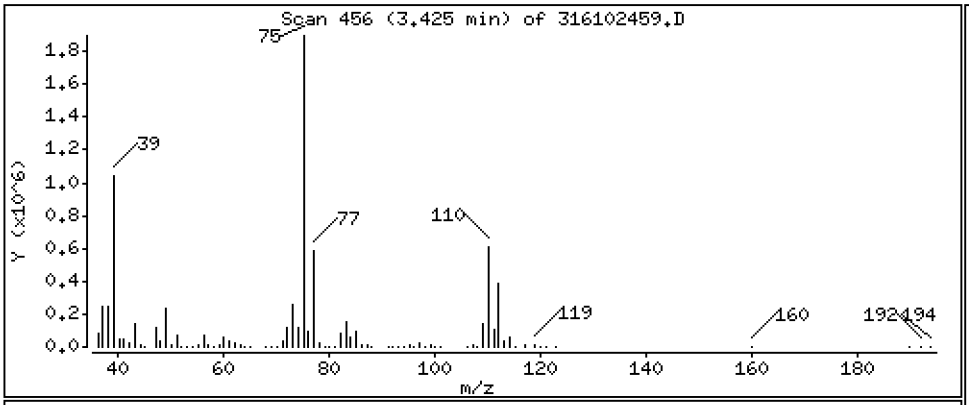
Client ID: Instrument: ms03.i

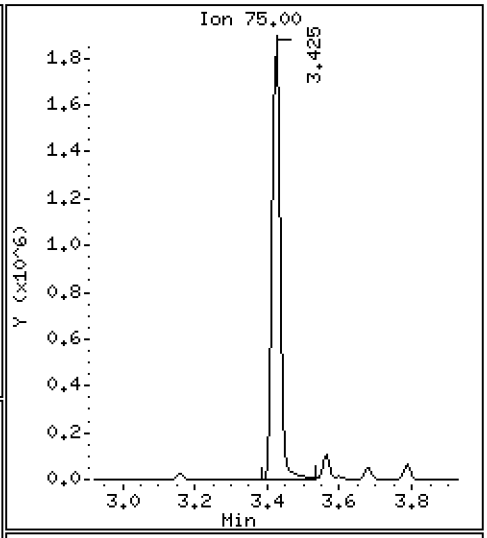
Sample Info: 1239;;1;1;6;;;

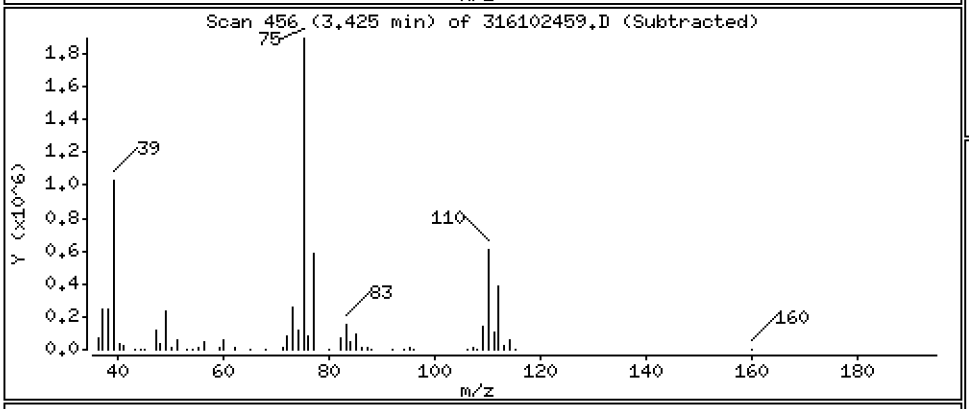
Purge Volume: 5.0 Operator: CJG

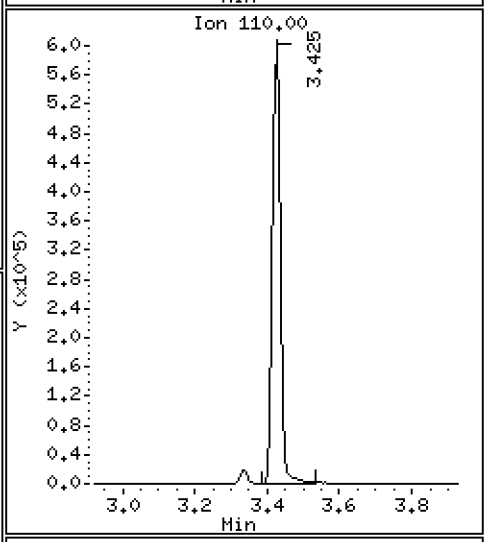
Column phase: DB-VRX Column diameter: 0.25

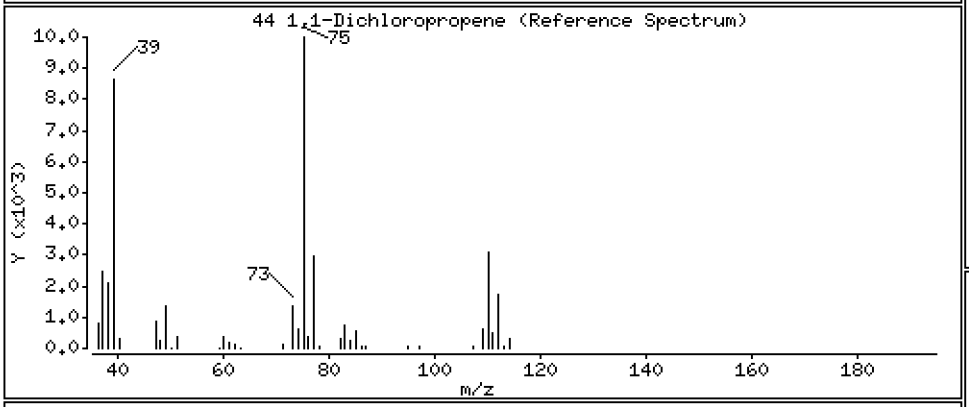
44 1,1-Dichloropropene Concentration: 200.103 ug/L

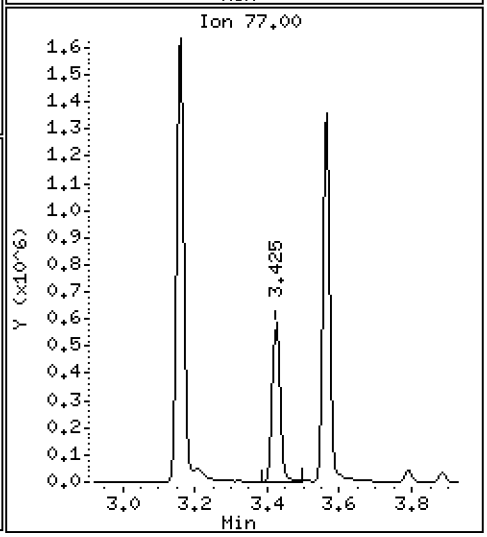


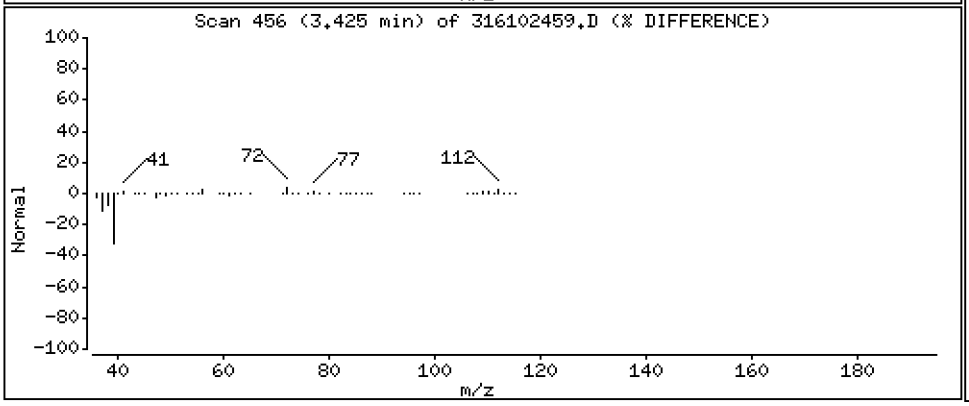












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 52

Date : 25-OCT-2016 01:36

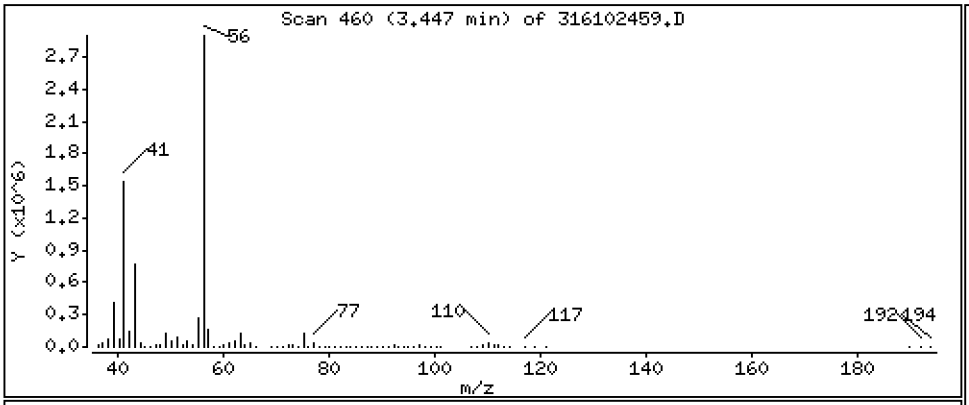
Client ID: Instrument: ms03.i

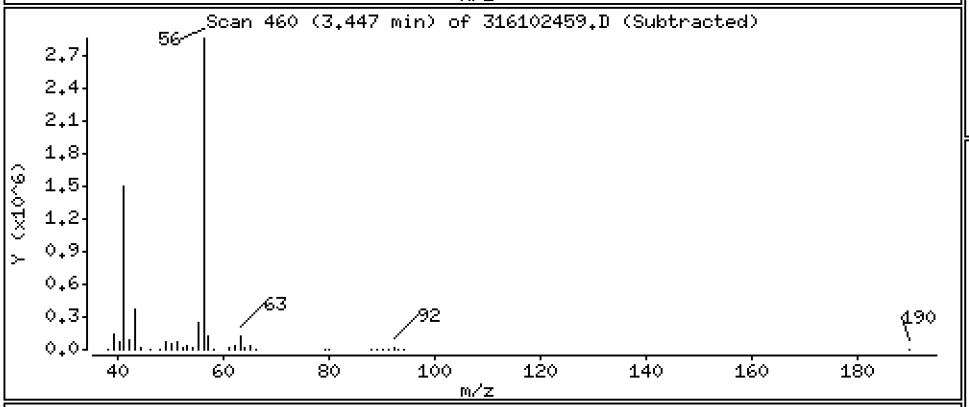
Sample Info: 1239;;1;1;6;;;

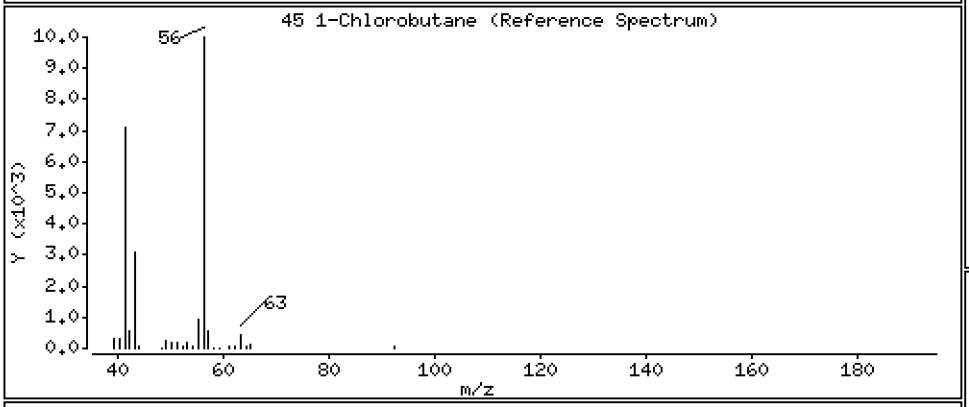
Purge Volume: 5.0 Operator: CJG

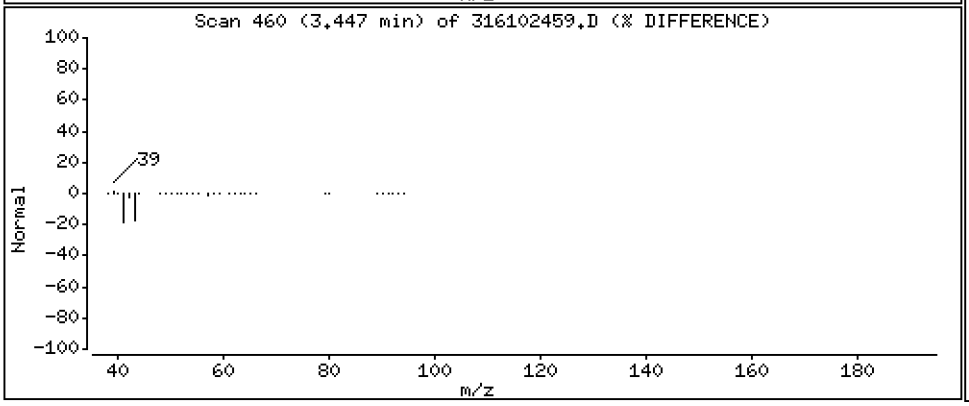
Column phase: DB-VRX Column diameter: 0.25

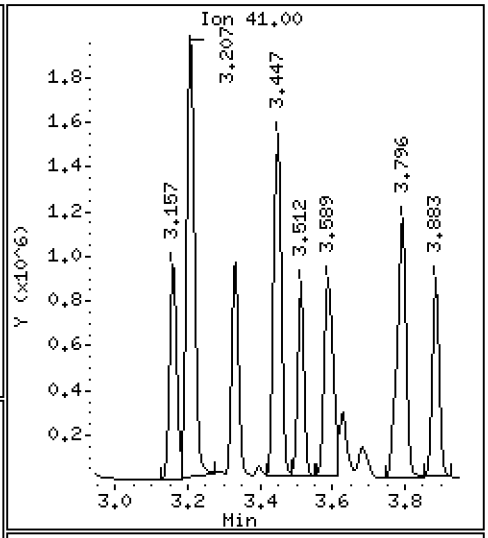
45 1-Chlorobutane Concentration: 200.139 ug/L

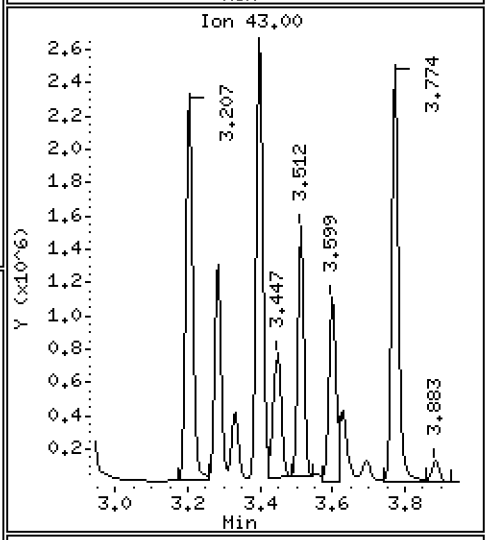


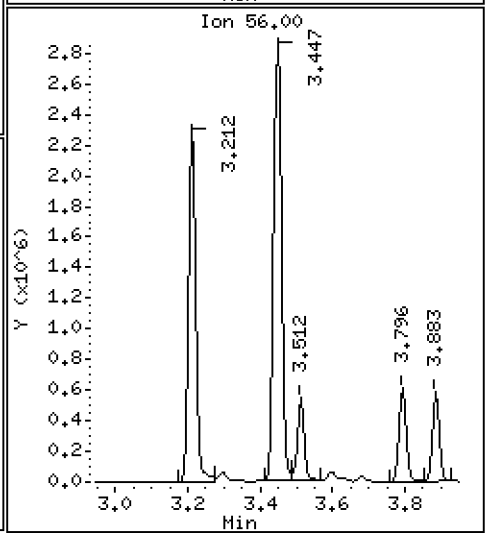












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 53

Date : 25-OCT-2016 01:36

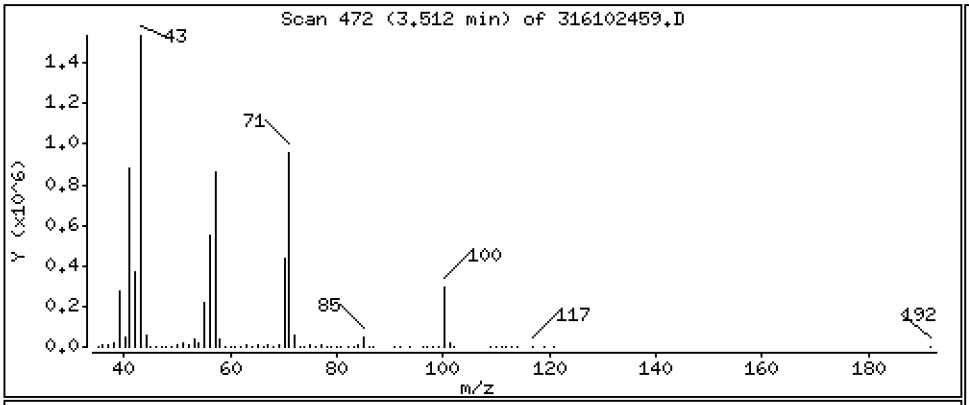
Client ID: Instrument: ms03.i

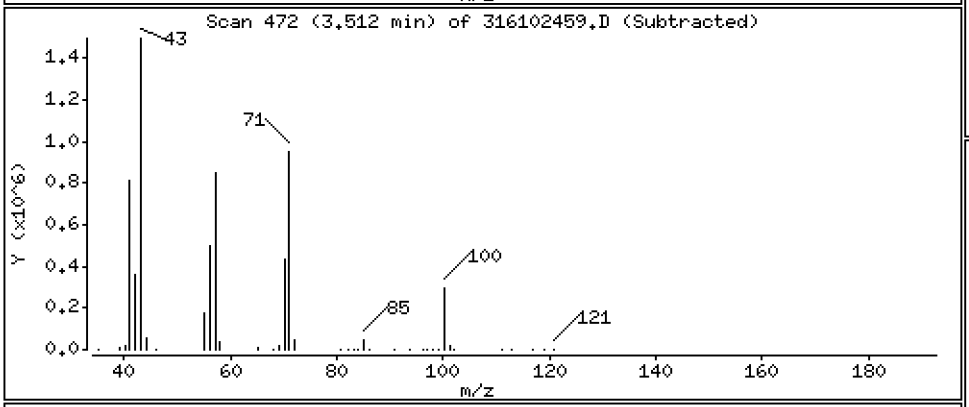
Sample Info: 1239;;1;1;6;;;

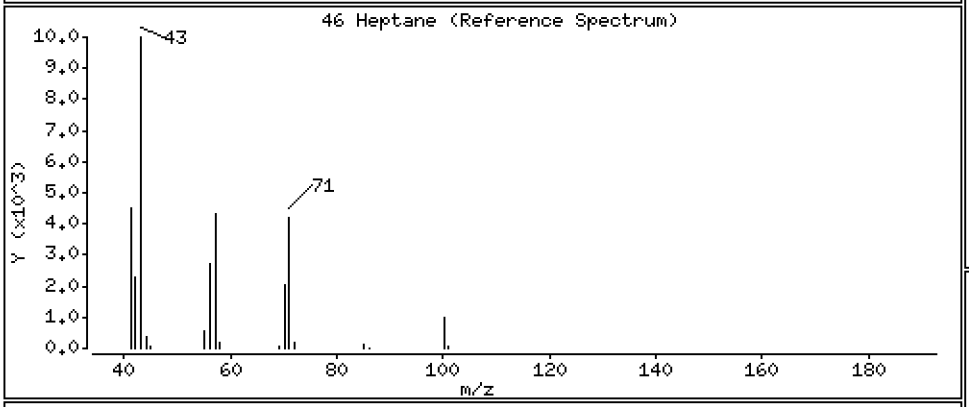
Purge Volume: 5.0 Operator: CJG

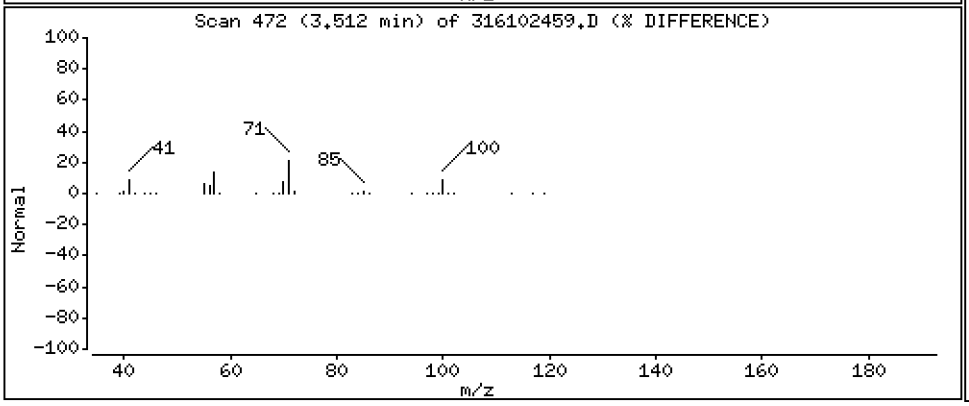
Column phase: DB-VRX Column diameter: 0.25

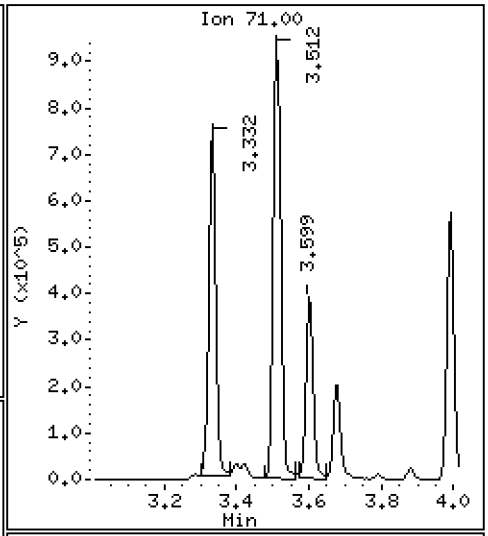
46 Heptane Concentration: 199.827 ug/L

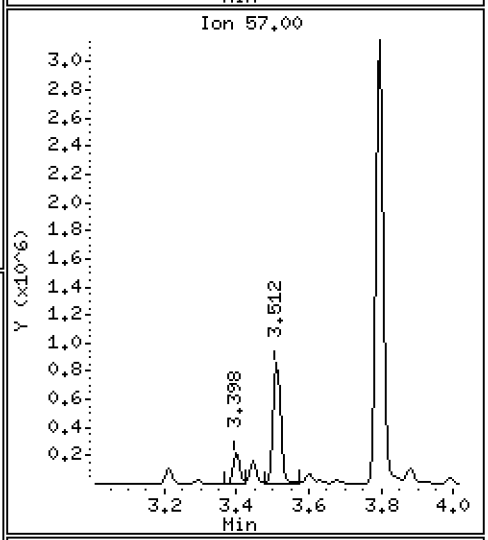


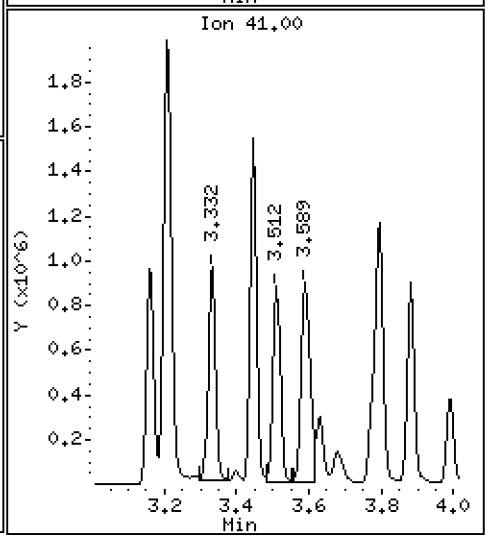












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 54

Date : 25-OCT-2016 01:36

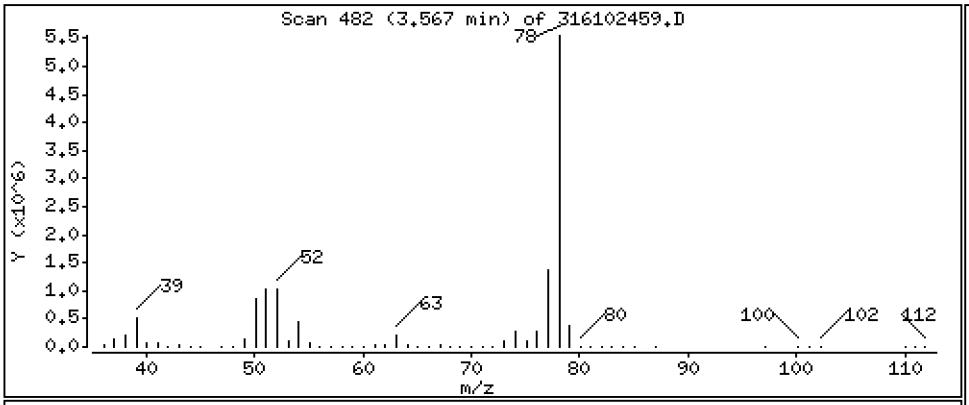
Client ID: Instrument: ms03.i

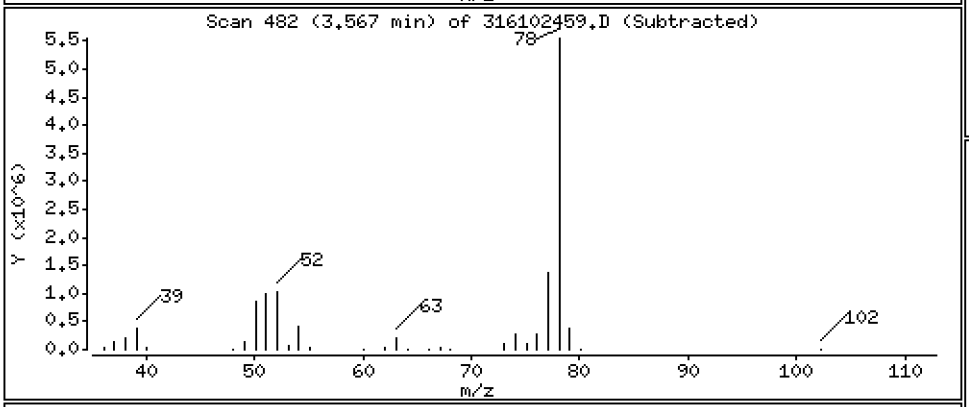
Sample Info: 1239;;1;1;6;;;

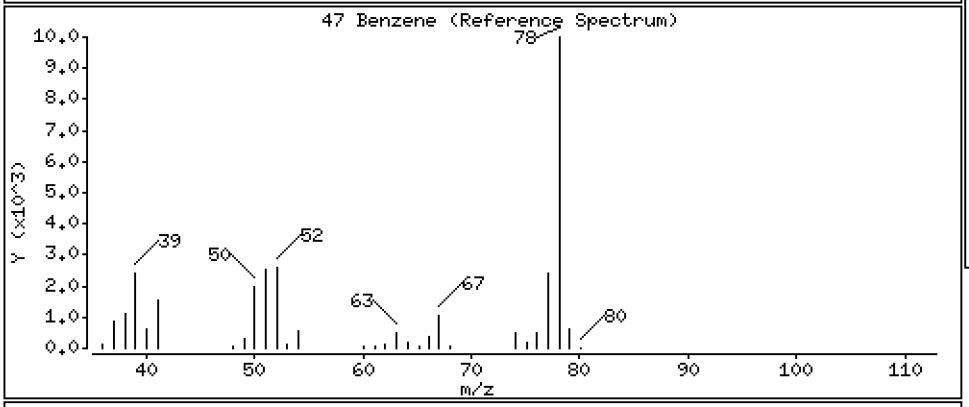
Purge Volume: 5.0 Operator: CJG

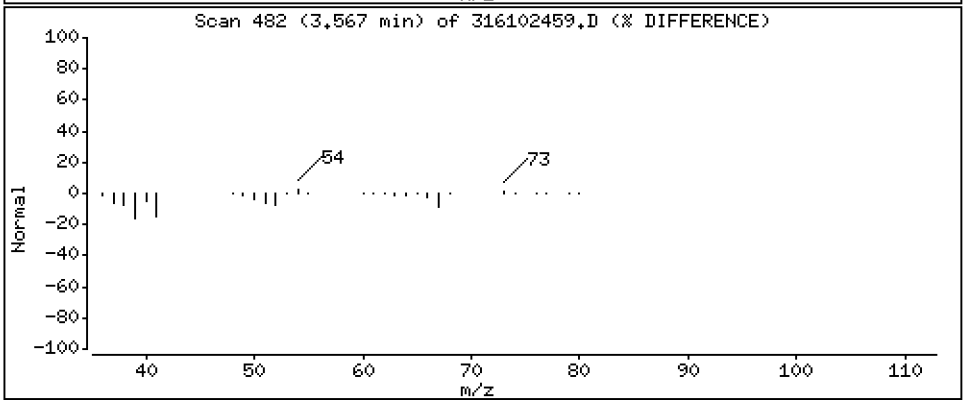
Column phase: DB-VRX Column diameter: 0.25

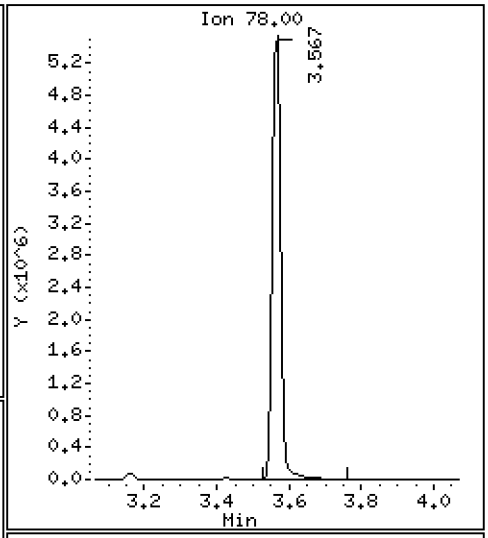
47 Benzene Concentration: 200.077 ug/L

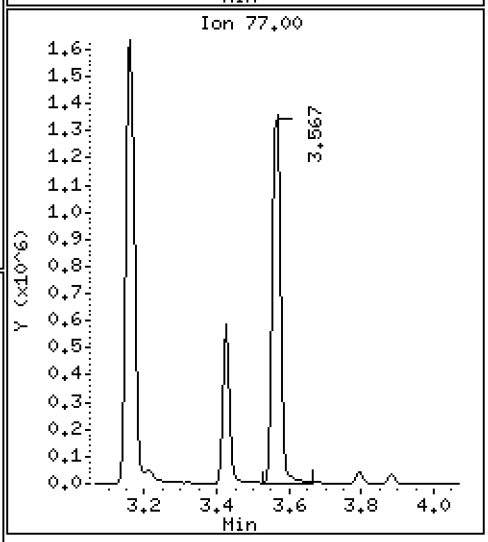












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 55

Date : 25-OCT-2016 01:36

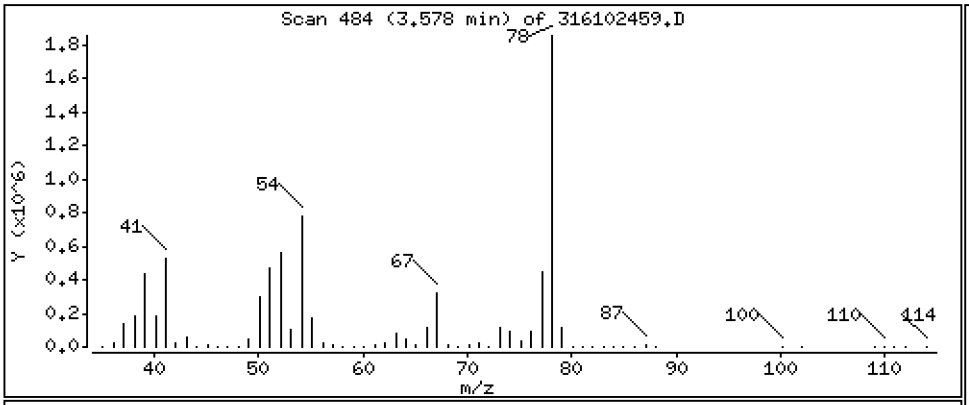
Client ID: Instrument: ms03.i

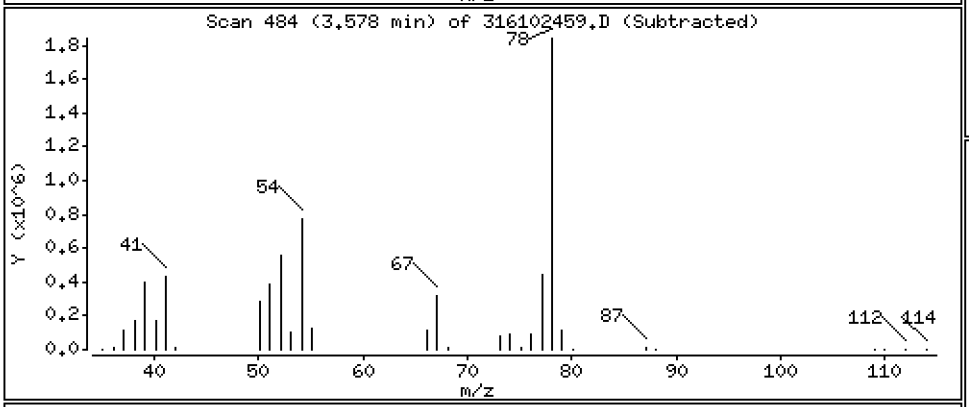
Sample Info: 1239;;1;1;6;;;

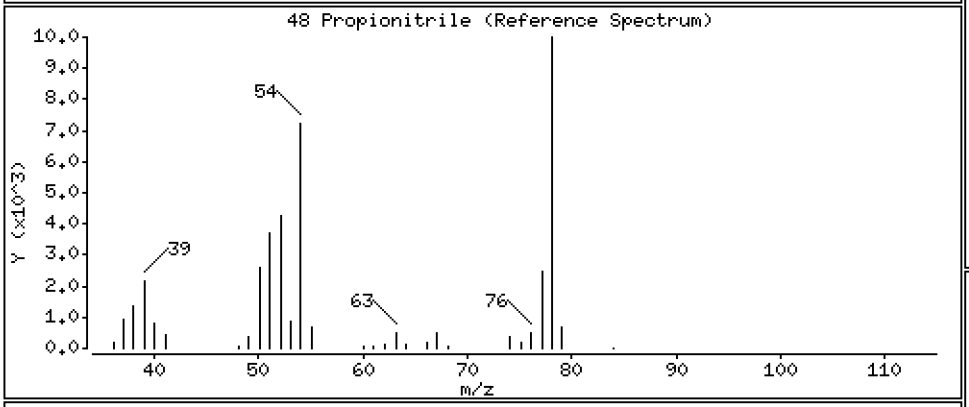
Purge Volume: 5.0 Operator: CJG

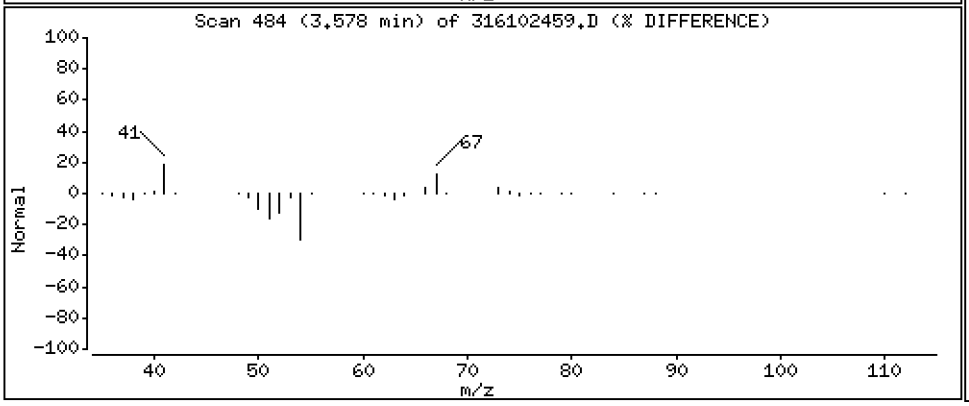
Column phase: DB-VRX Column diameter: 0.25

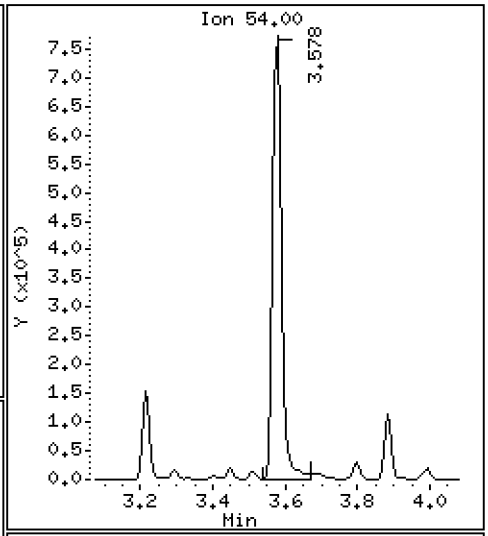
48 Propionitrile Concentration: 1000.96 ug/L

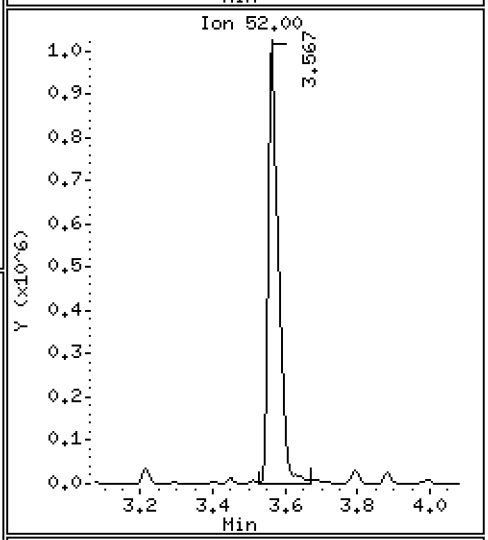


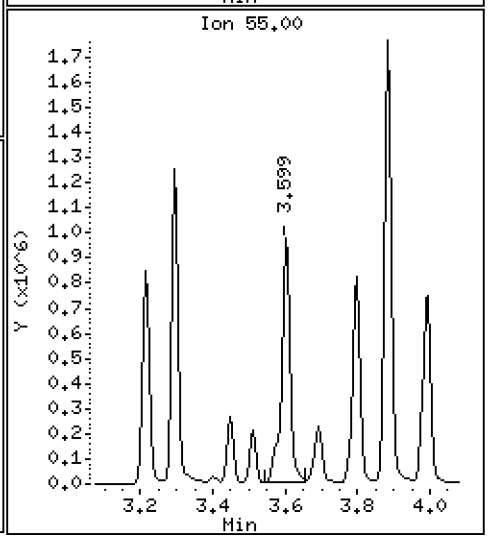












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 56

Date : 25-OCT-2016 01:36

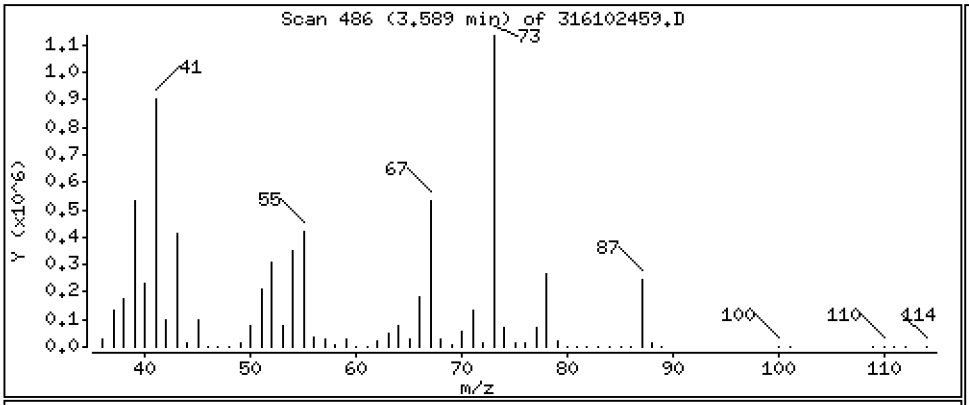
Client ID: Instrument: ms03.i

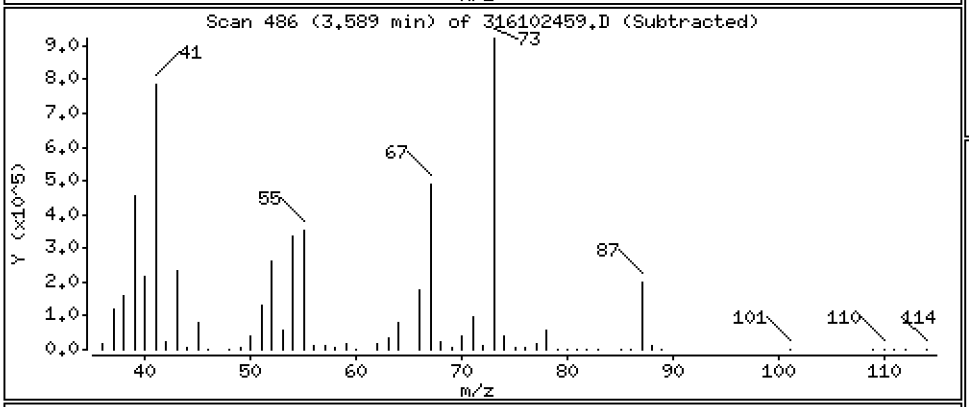
Sample Info: 1239;;1;1;6;;;

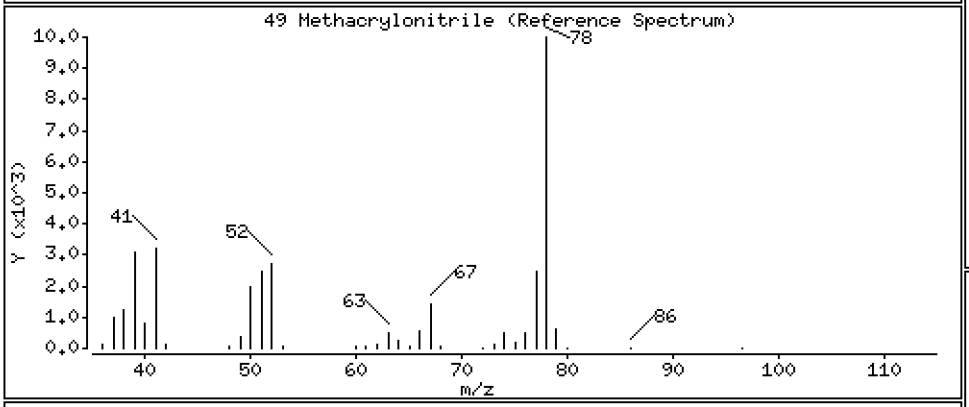
Purge Volume: 5.0 Operator: CJG

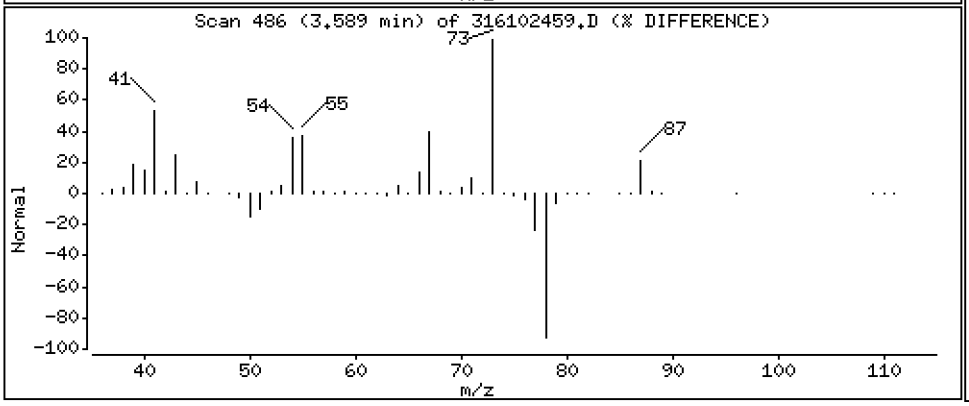
Column phase: DB-VRX Column diameter: 0.25

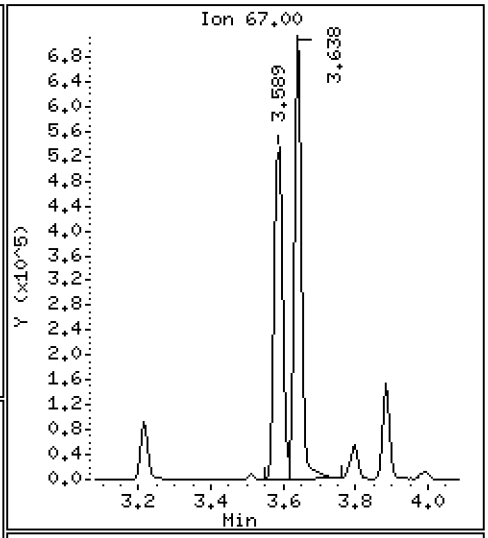
49 Methacrylonitrile Concentration: 200.167 ug/L

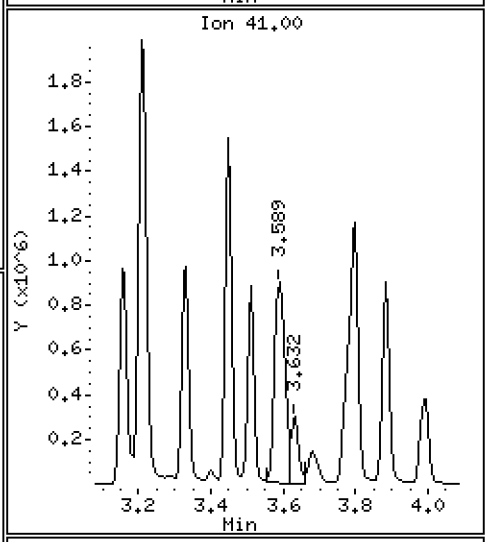


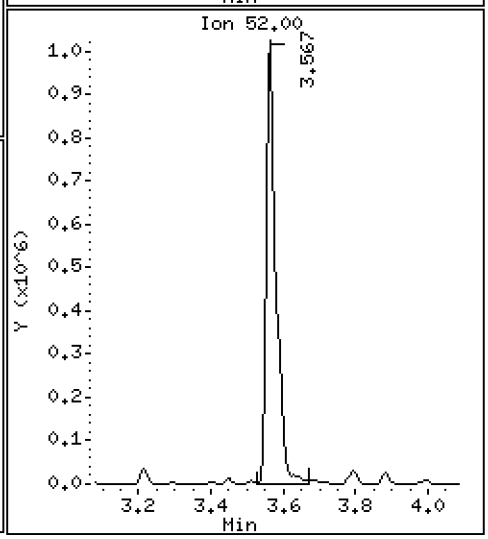












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 57

Date : 25-OCT-2016 01:36

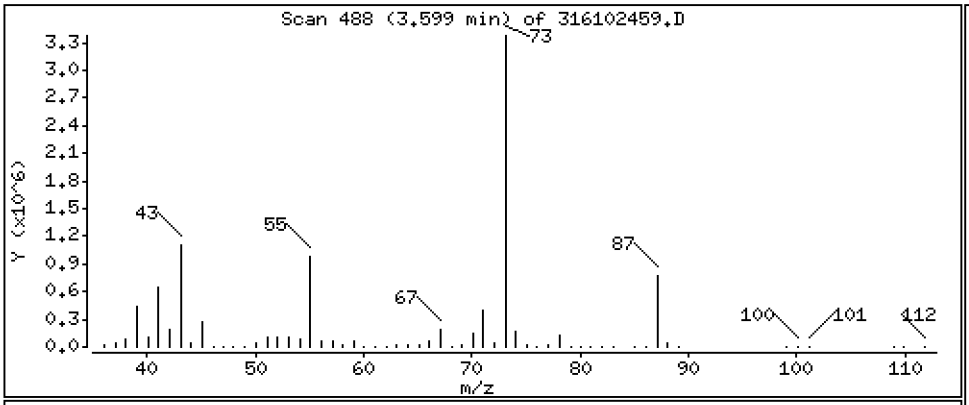
Client ID: Instrument: ms03.i

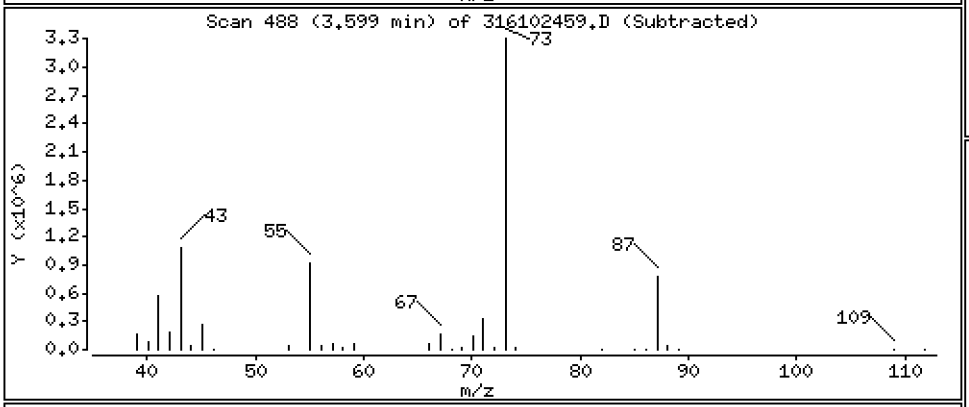
Sample Info: 1239;;1;1;6;;;

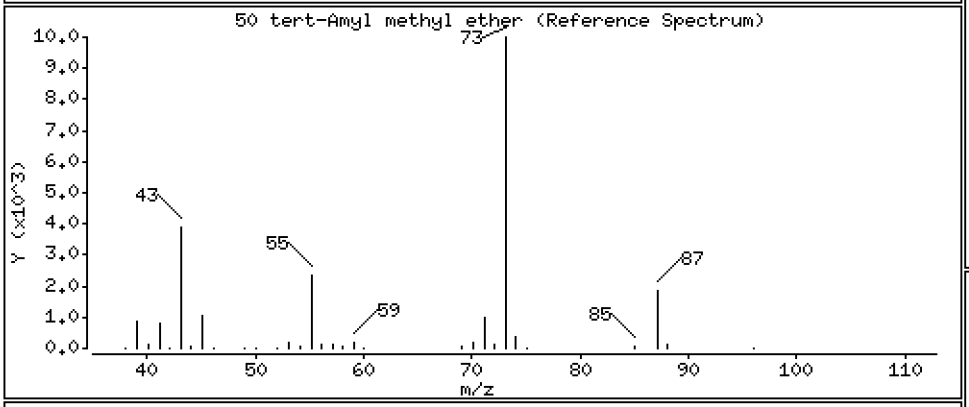
Purge Volume: 5.0 Operator: CJG

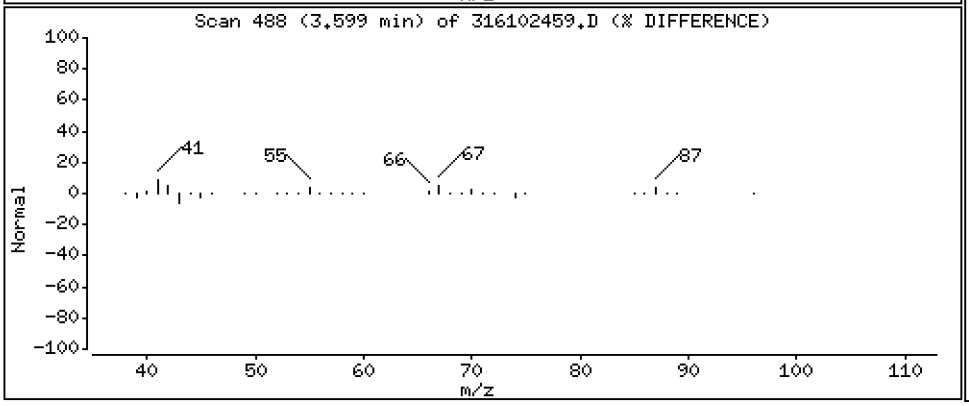
Column phase: DB-VRX Column diameter: 0.25

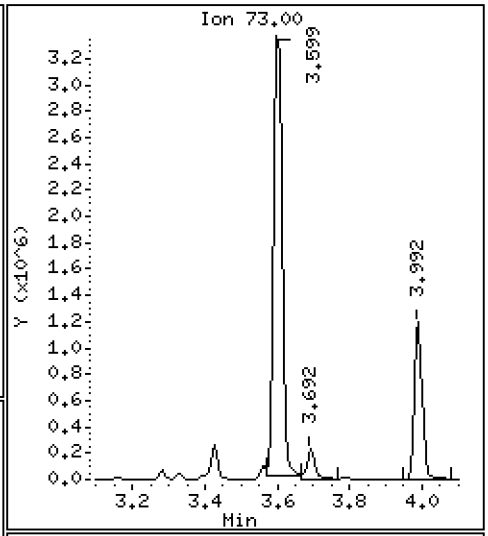
50 tert-Amyl methyl ether Concentration: 199.900 ug/L

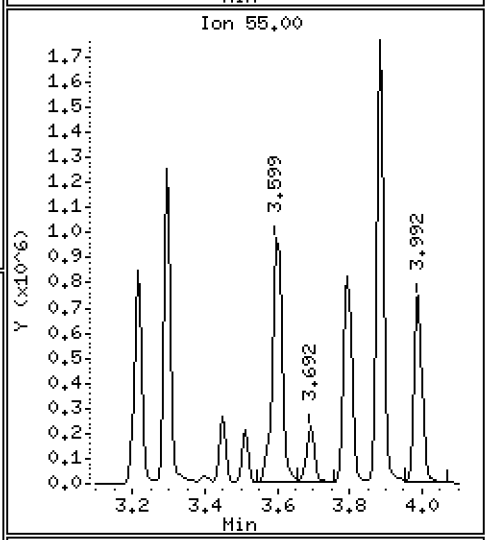


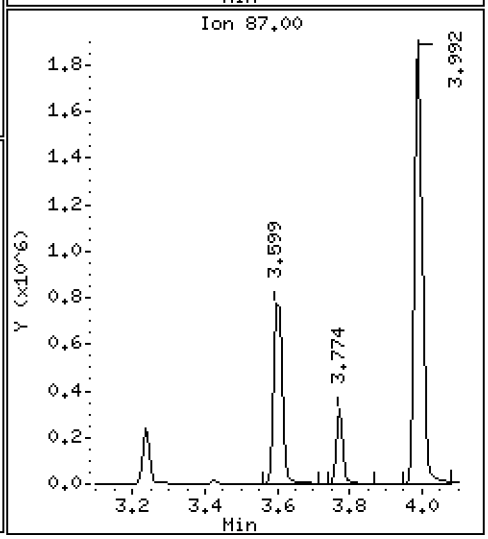












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 58

Date : 25-OCT-2016 01:36

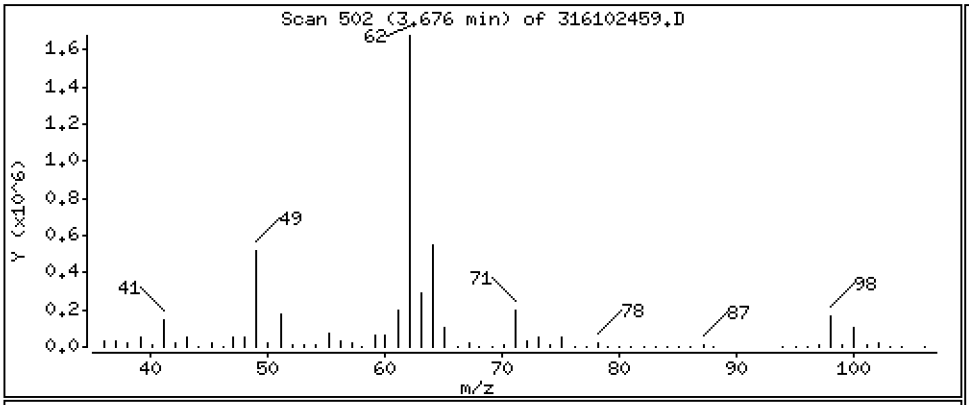
Client ID: Instrument: ms03.i

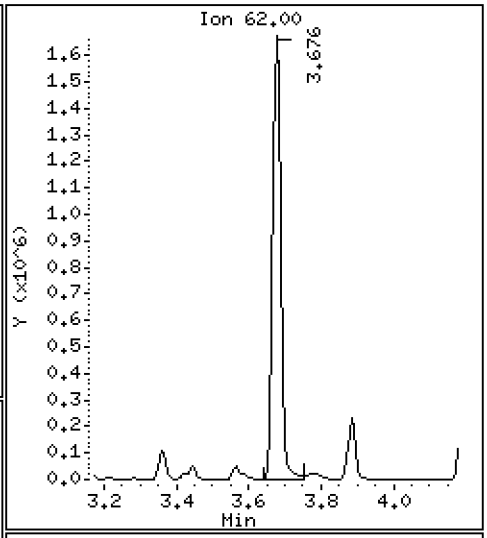
Sample Info: 1239;;1;1;6;;;

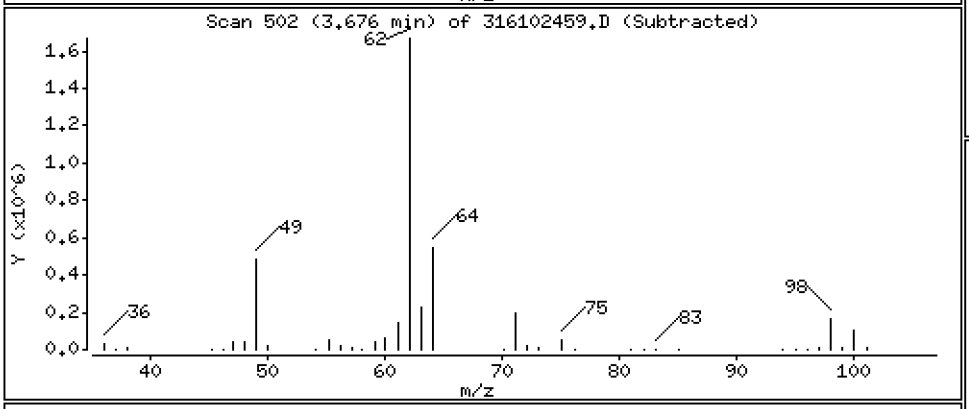
Purge Volume: 5.0 Operator: CJG

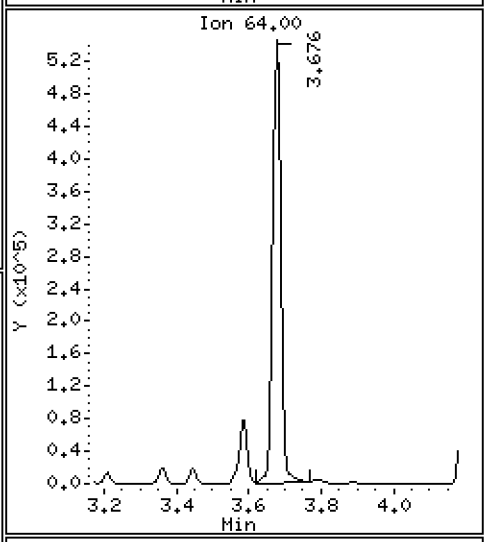
Column phase: DB-VRX Column diameter: 0.25

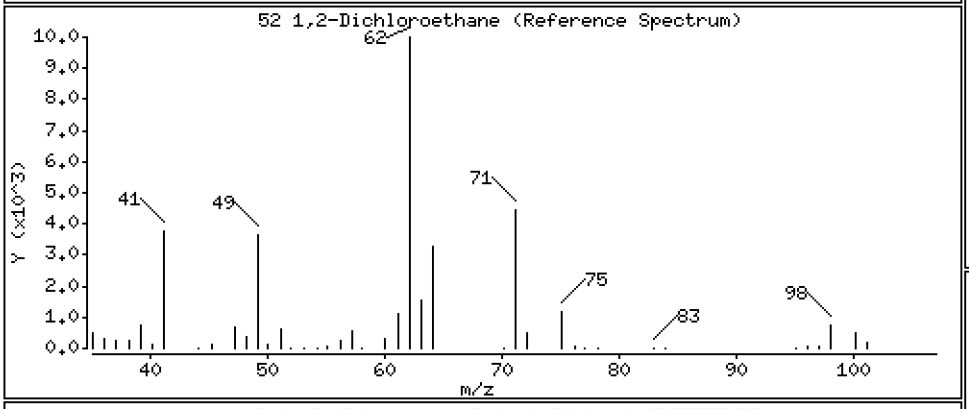
52 1,2-Dichloroethane Concentration: 200.008 ug/L

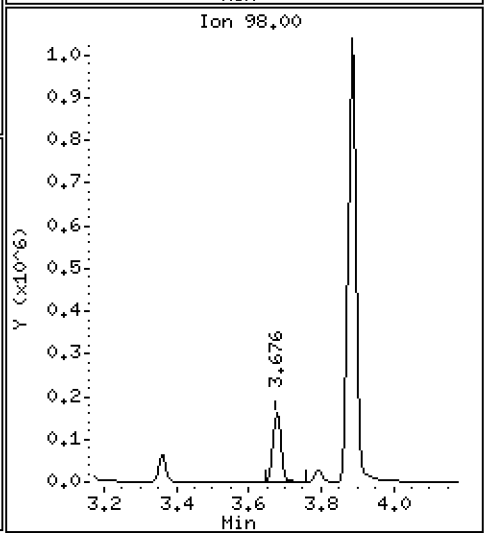


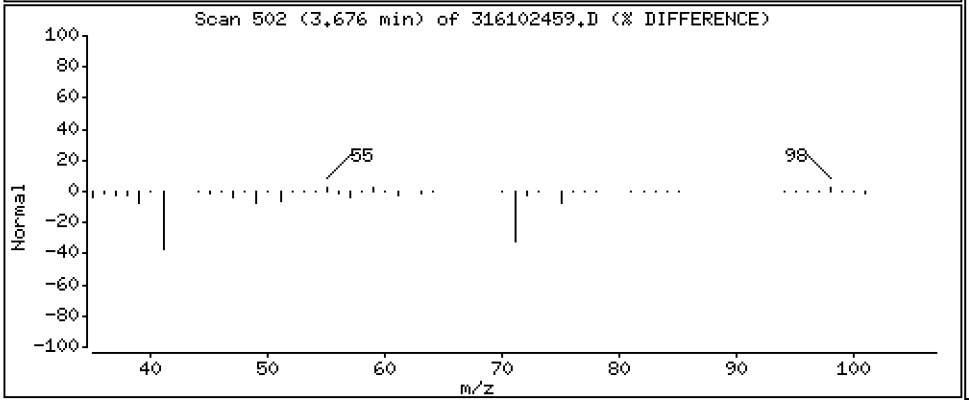












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 59

Date : 25-OCT-2016 01:36

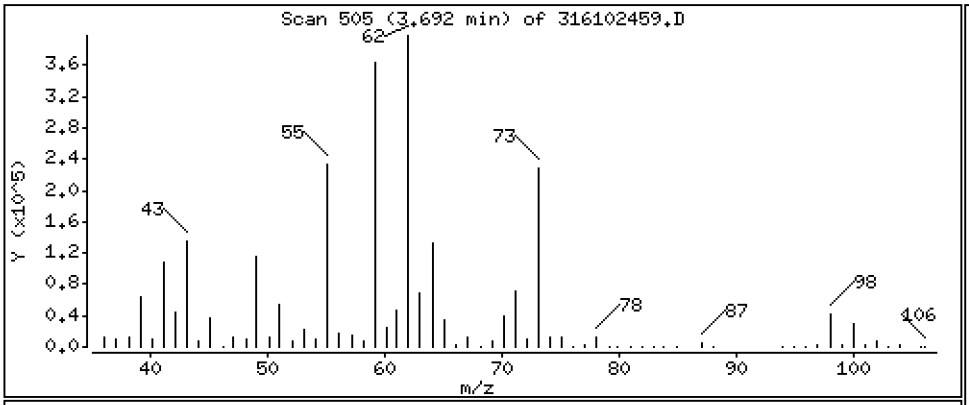
Client ID: Instrument: ms03.i

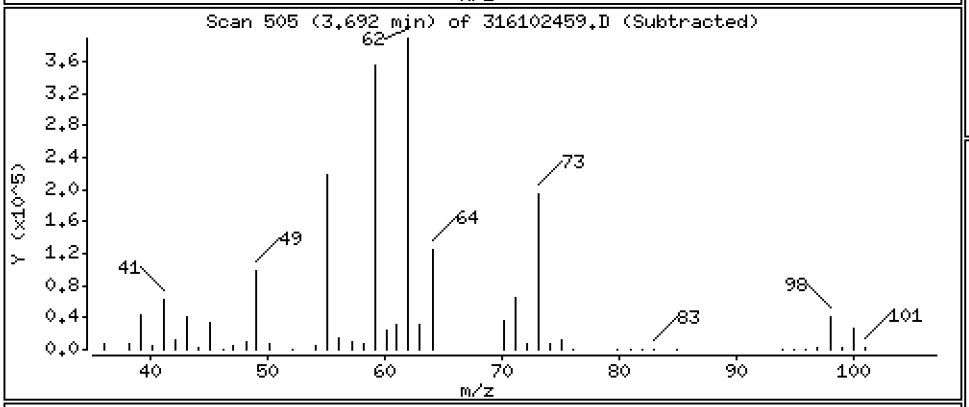
Sample Info: 1239;;1;1;6;;;

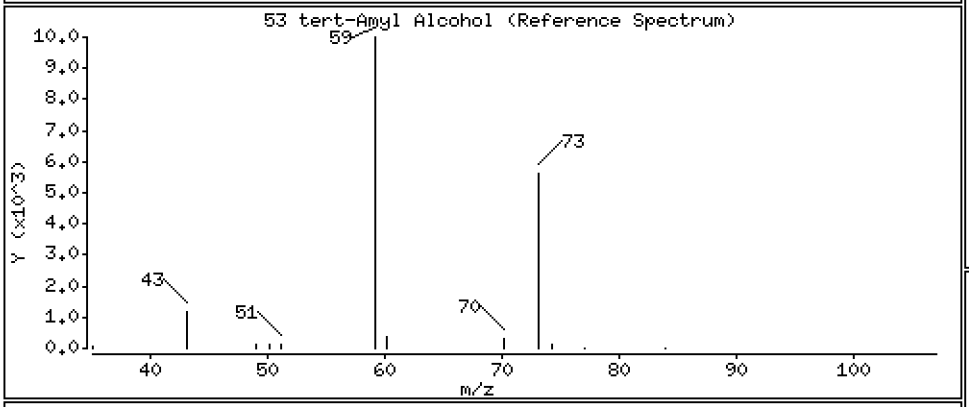
Purge Volume: 5.0 Operator: CJG

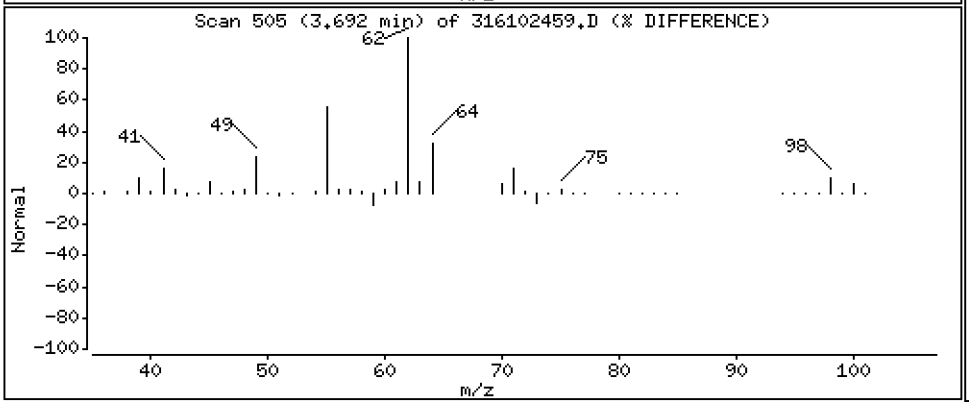
Column phase: DB-VRX Column diameter: 0.25

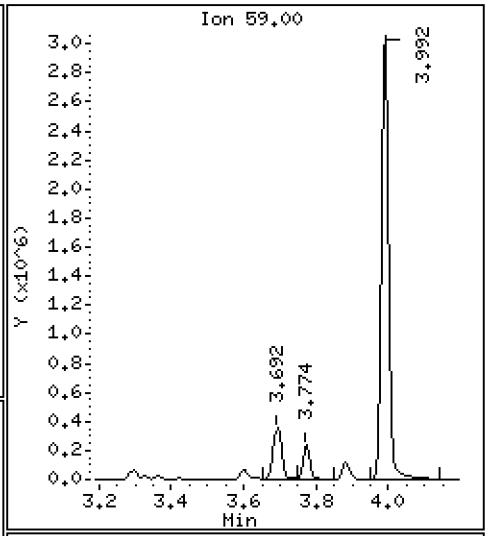
53 tert-Amyl Alcohol Concentration: 1000.25 ug/L

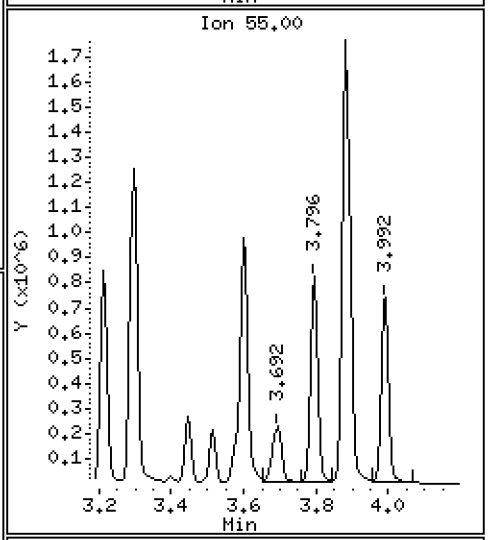


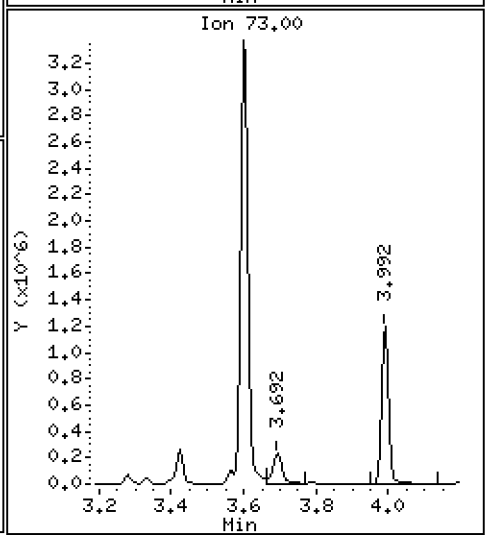












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 60

Date : 25-OCT-2016 01:36

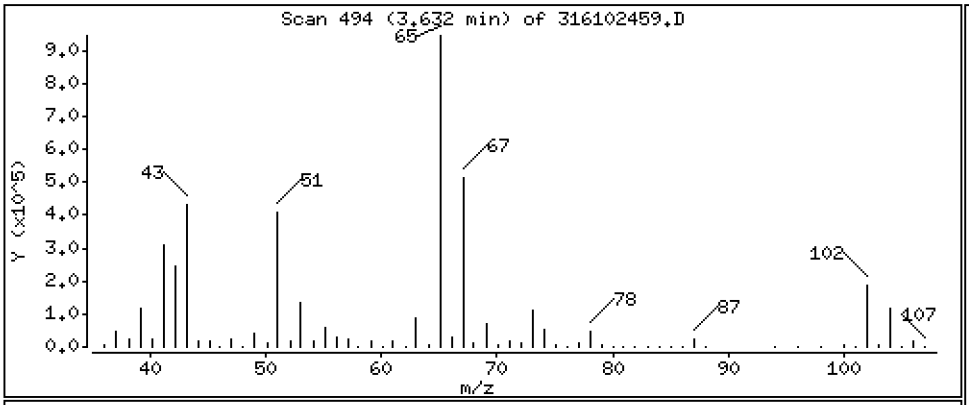
Client ID: Instrument: ms03.i

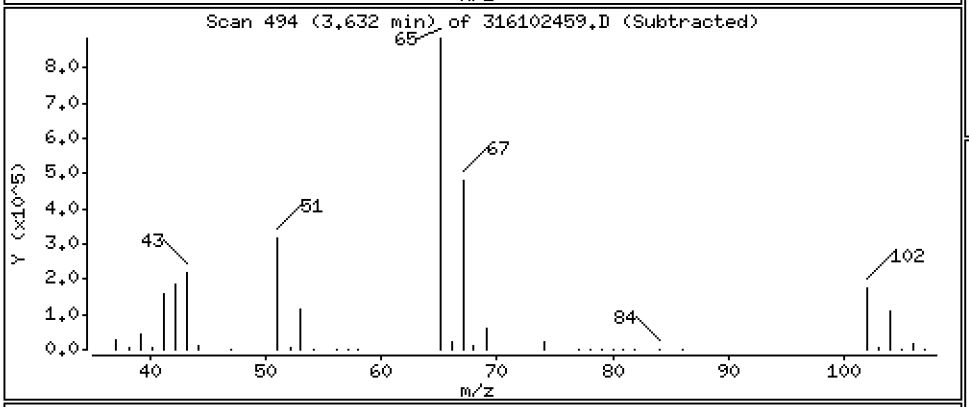
Sample Info: 1239;;1;1;6;;;

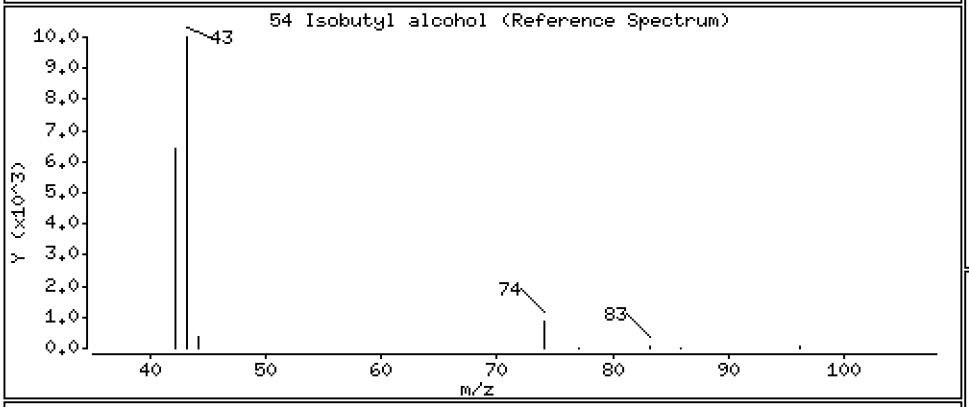
Purge Volume: 5.0 Operator: CJG

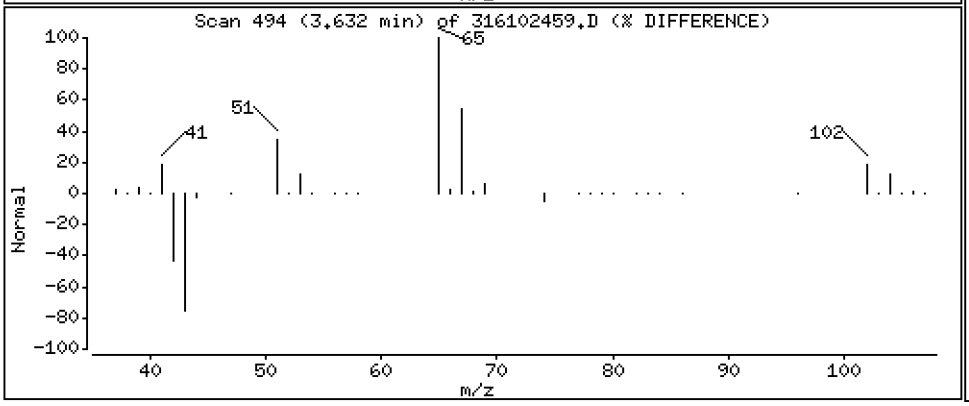
Column phase: DB-VRX Column diameter: 0.25

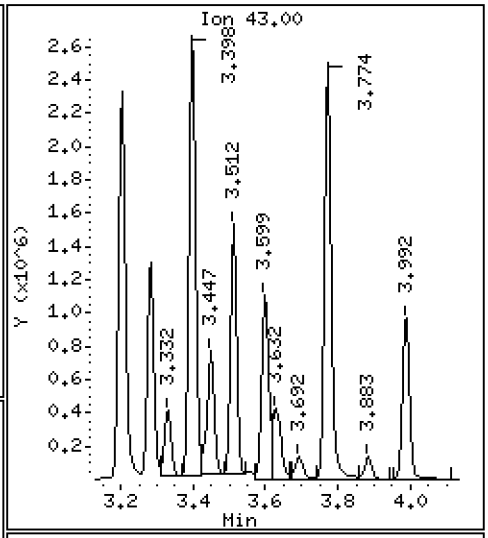
54 Isobutyl alcohol Concentration: 2004.48 ug/L

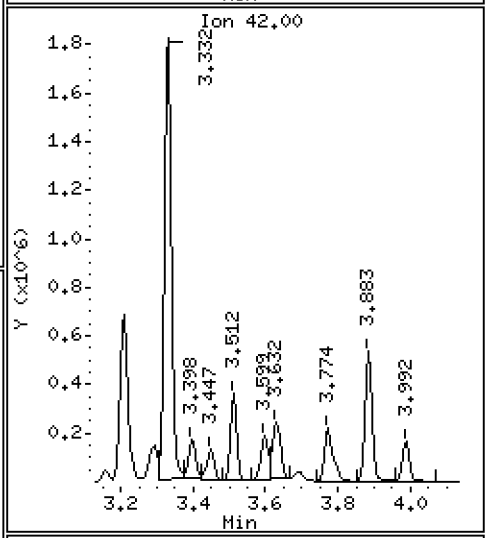


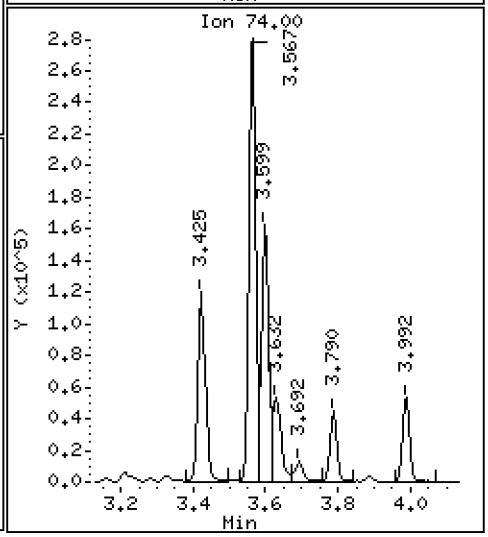












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 61

Date : 25-OCT-2016 01:36

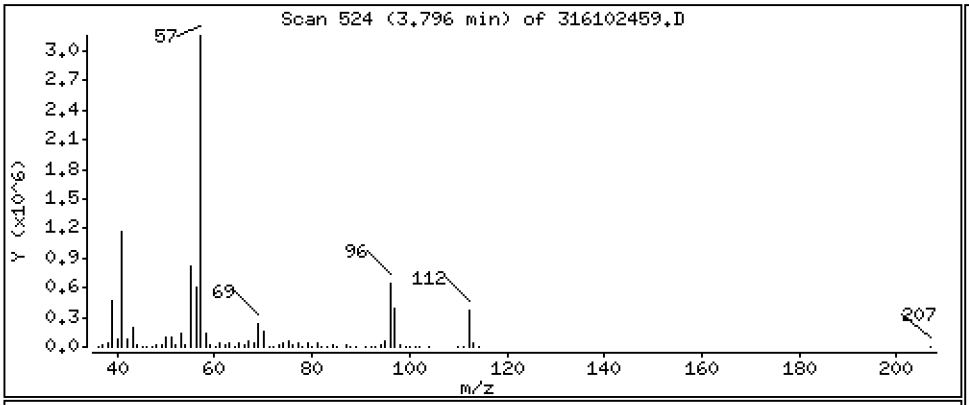
Client ID: Instrument: ms03.i

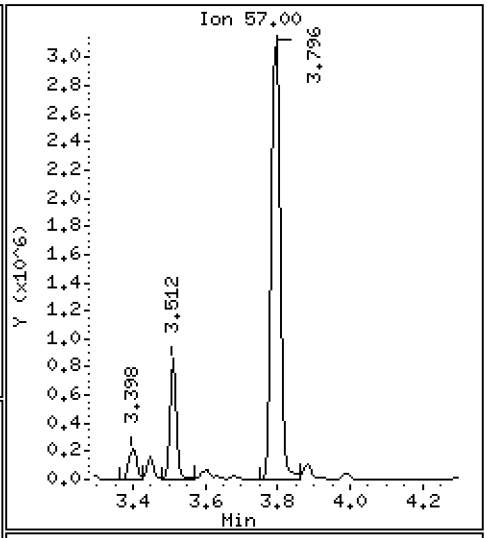
Sample Info: 1239;;1;1;6;;;

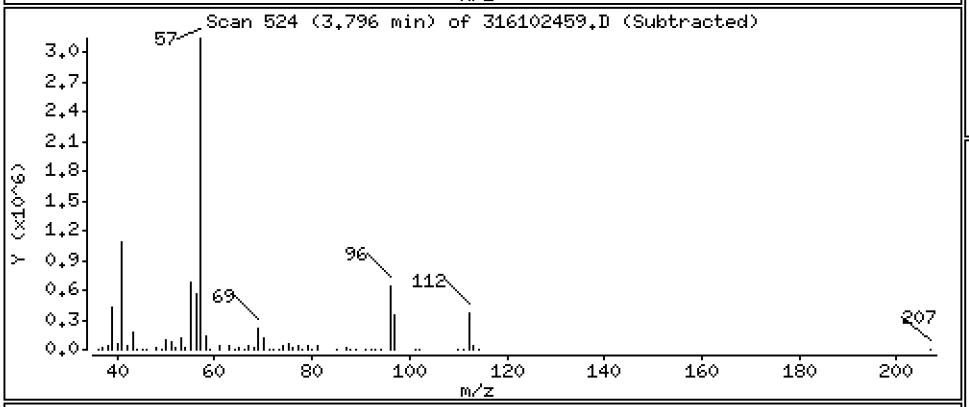
Purge Volume: 5.0 Operator: CJG

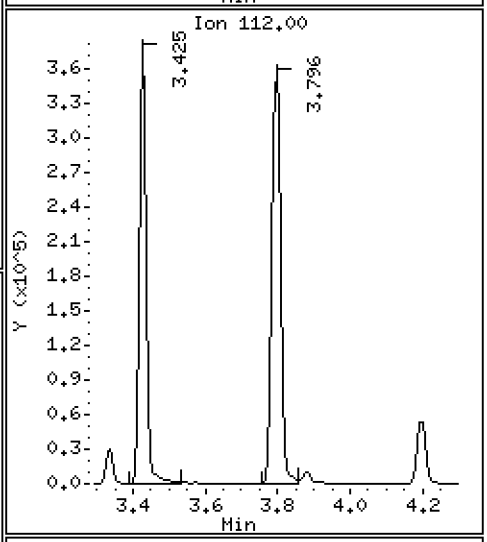
Column phase: DB-VRX Column diameter: 0.25

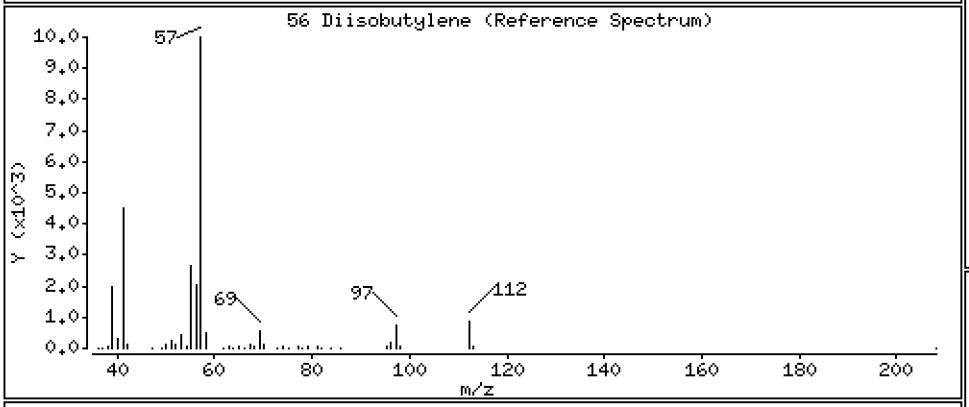
56 Diisobutylene Concentration: 200.082 ug/L

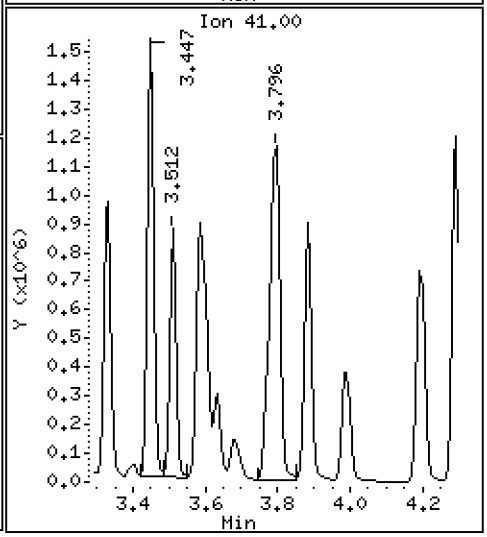


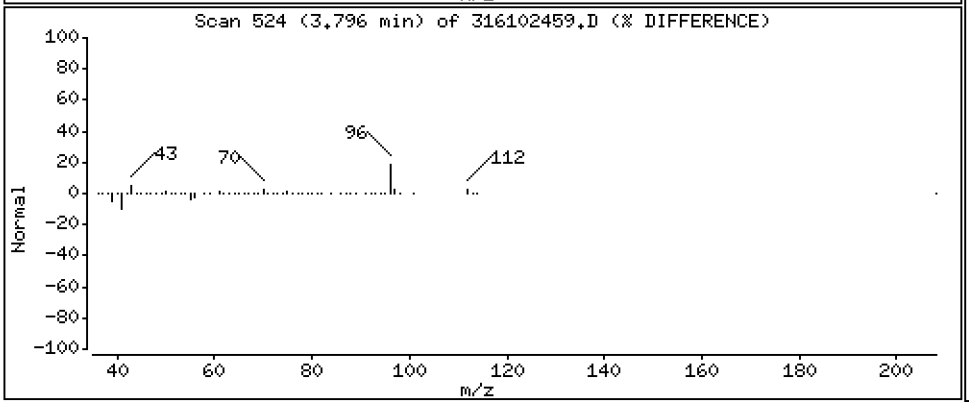












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 62

Date : 25-OCT-2016 01:36

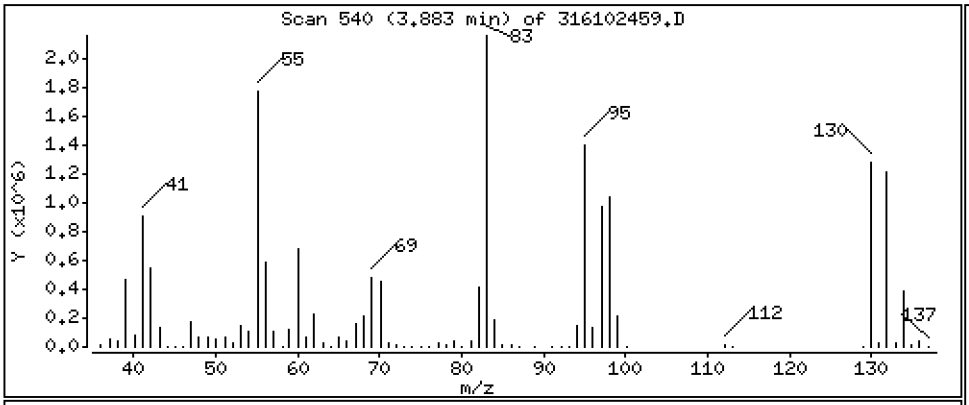
Client ID: Instrument: ms03.i

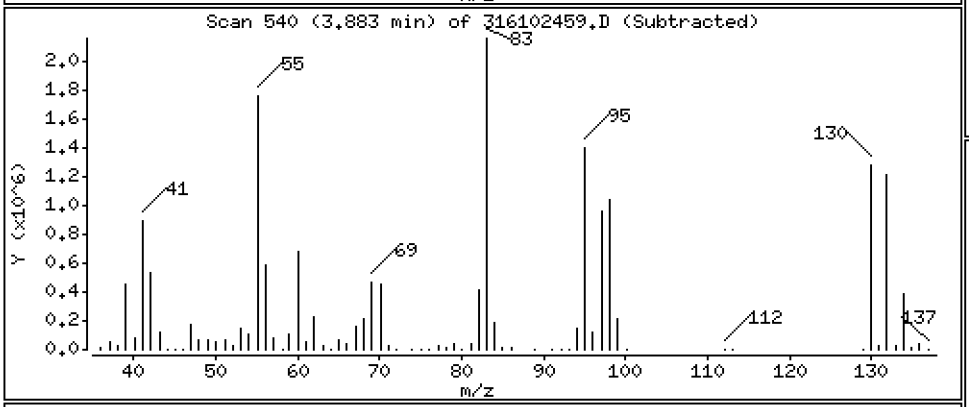
Sample Info: 1239;;1;1;6;;;

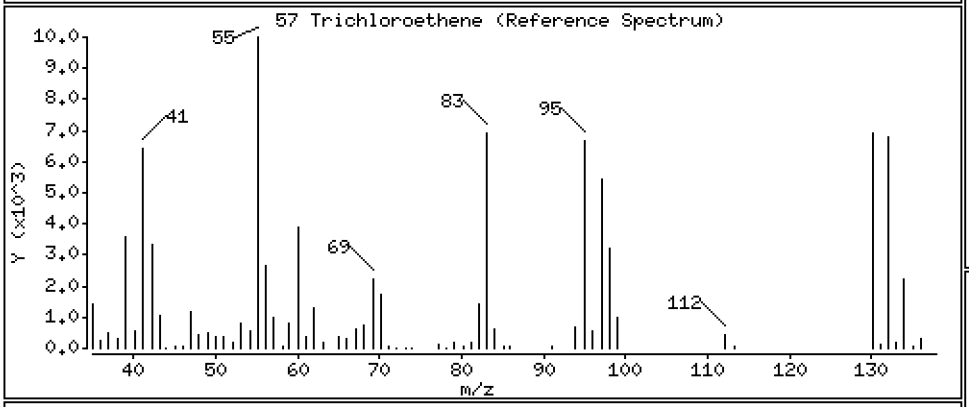
Purge Volume: 5.0 Operator: CJG

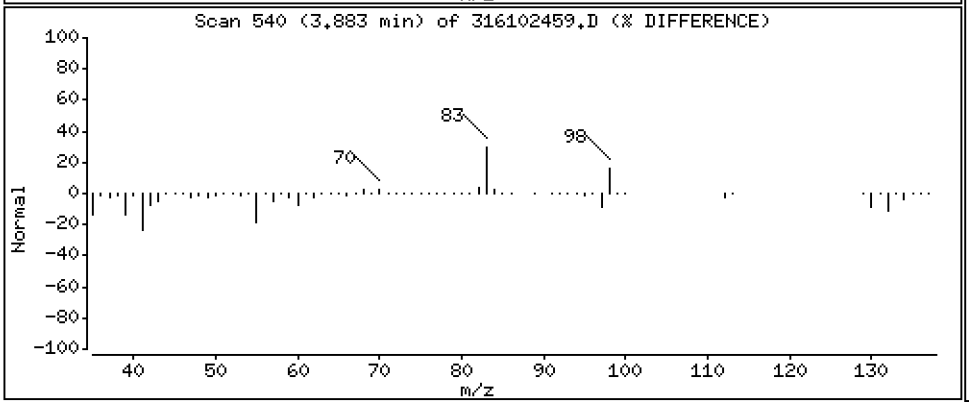
Column phase: DB-VRX Column diameter: 0.25

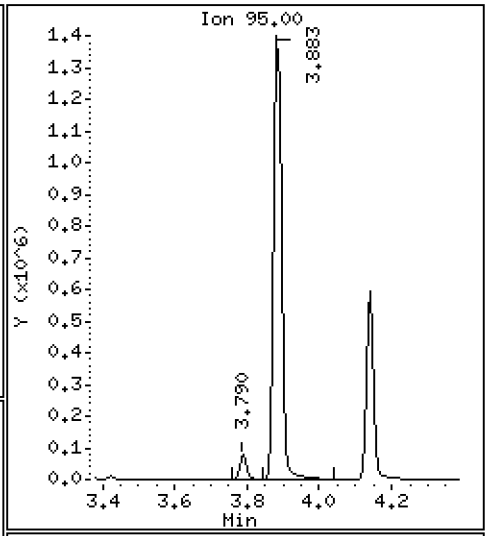
57 Trichloroethene Concentration: 200.074 ug/L

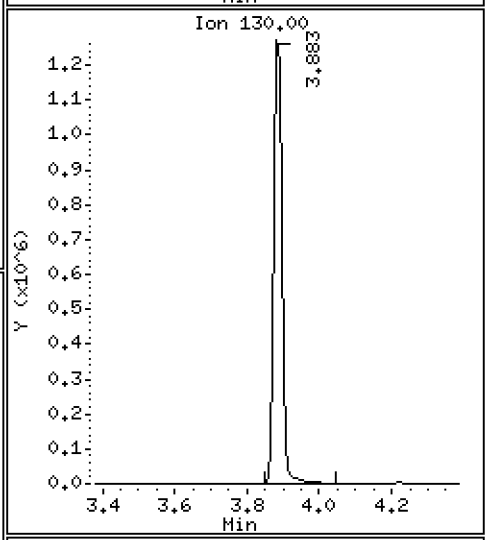


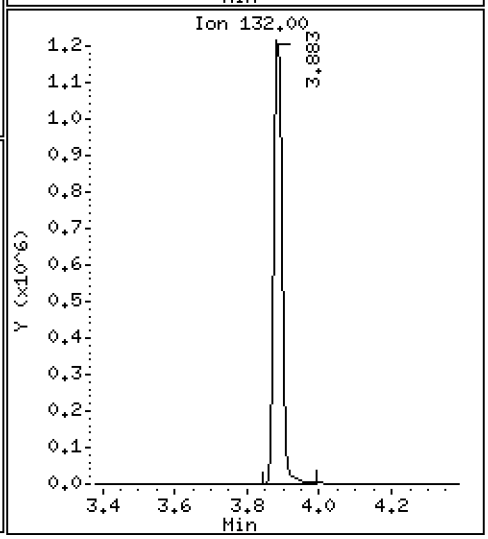












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 63

Date : 25-OCT-2016 01:36

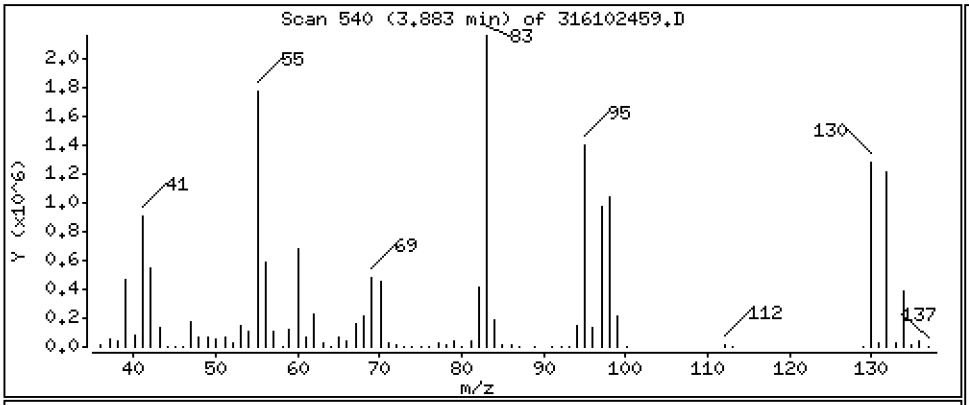
Client ID: Instrument: ms03.i

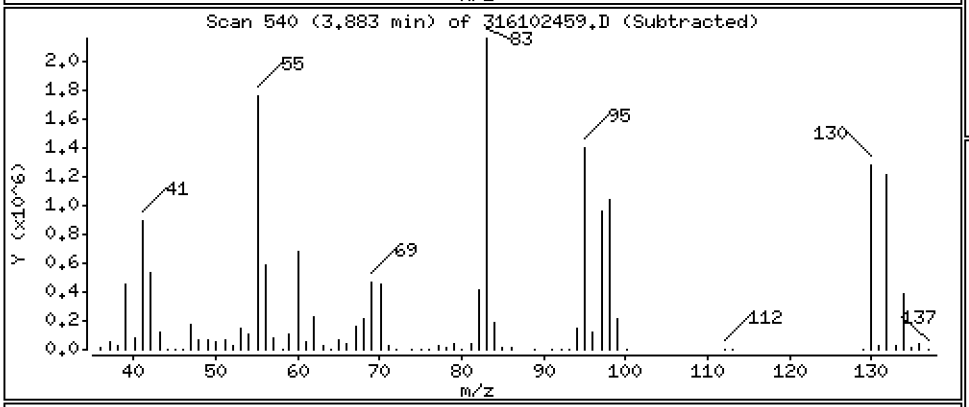
Sample Info: 1239;;1;1;6;;;

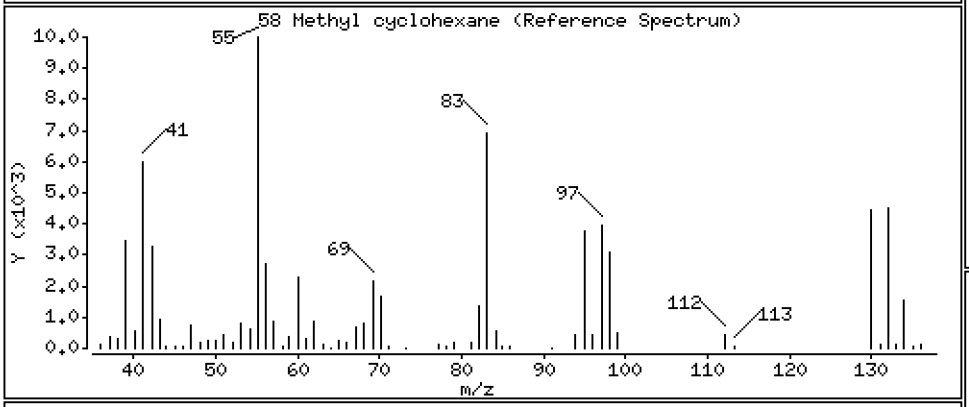
Purge Volume: 5.0 Operator: CJG

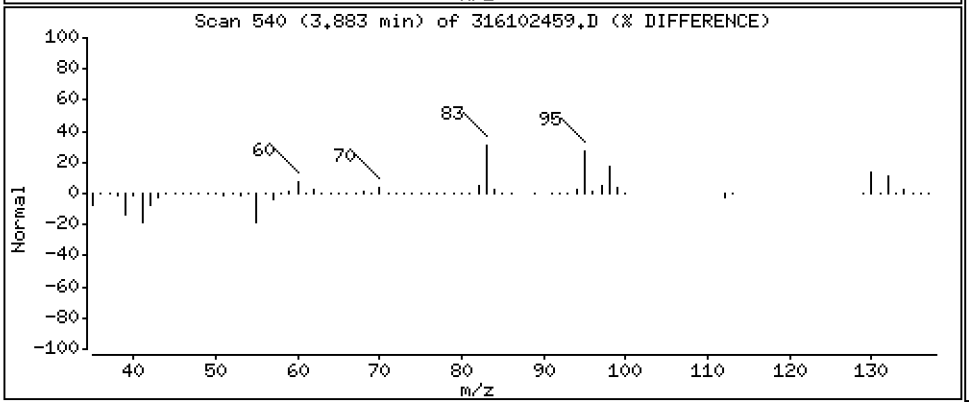
Column phase: DB-VRX Column diameter: 0.25

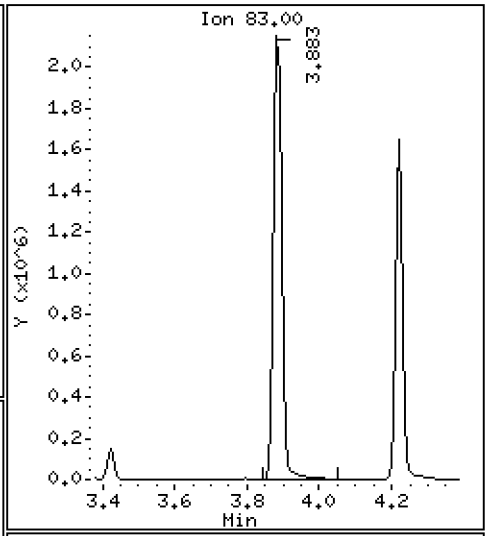
58 Methyl cyclohexane Concentration: 200.131 ug/L

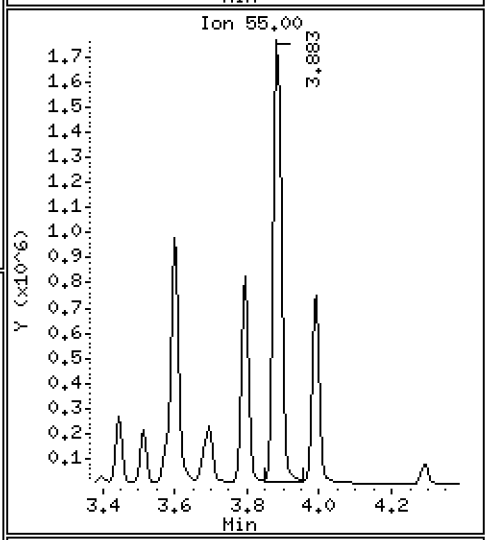


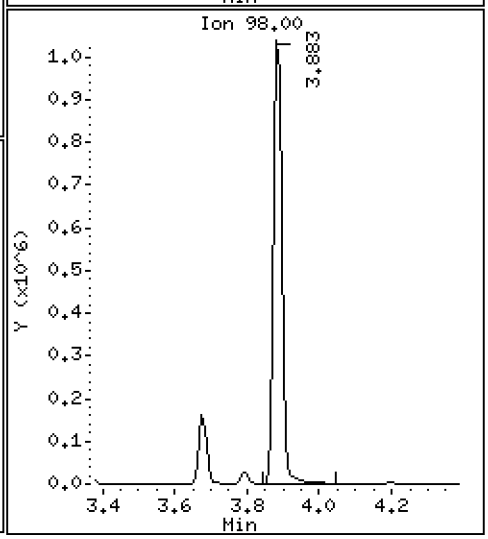












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 64

Date : 25-OCT-2016 01:36

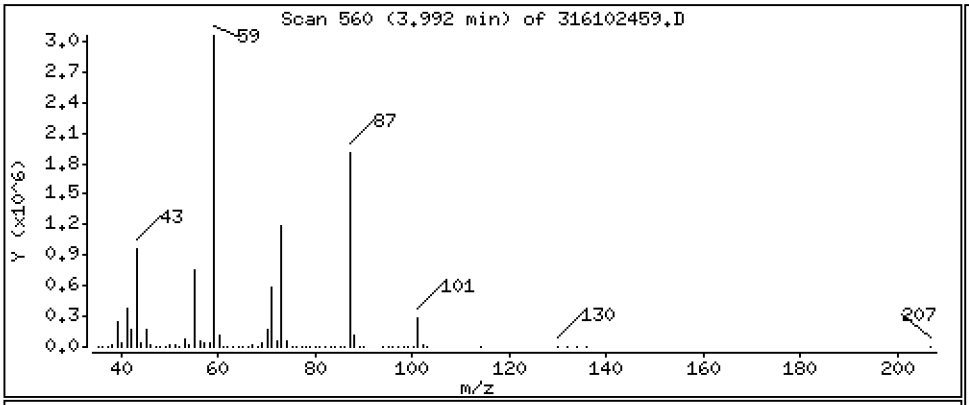
Client ID: Instrument: ms03.i

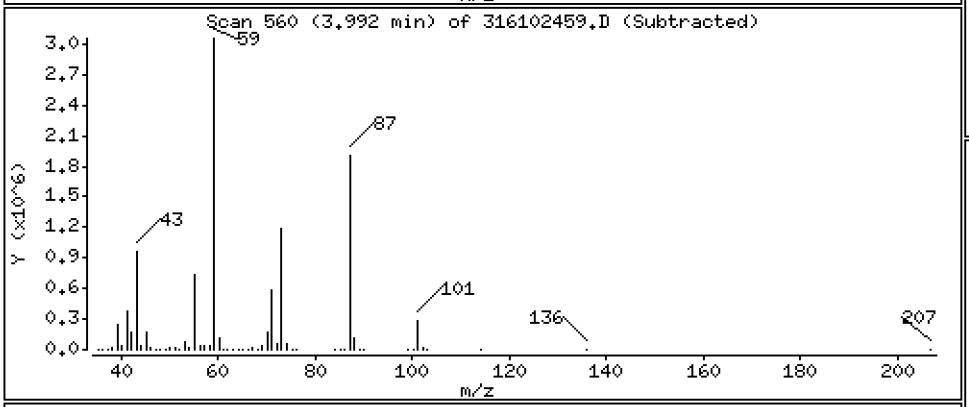
Sample Info: 1239;;1;1;6;;;

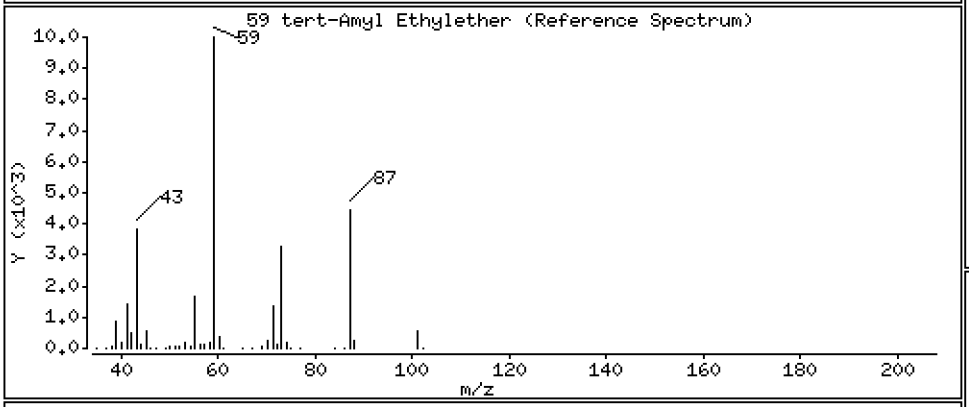
Purge Volume: 5.0 Operator: CJG

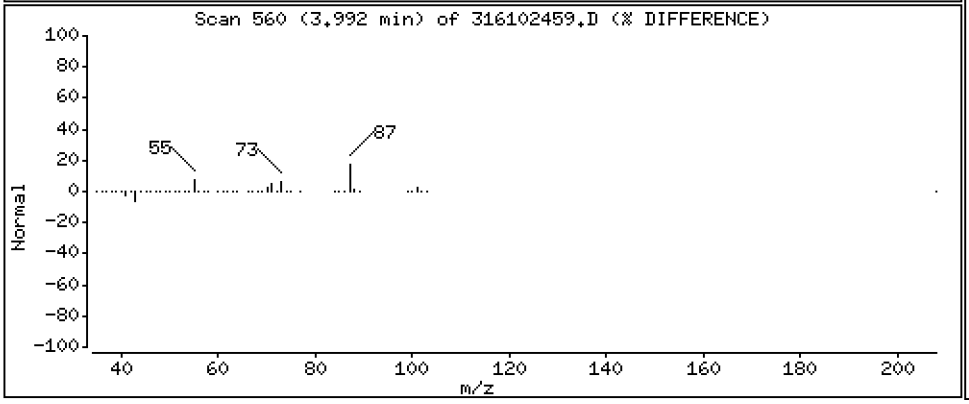
Column phase: DB-VRX Column diameter: 0.25

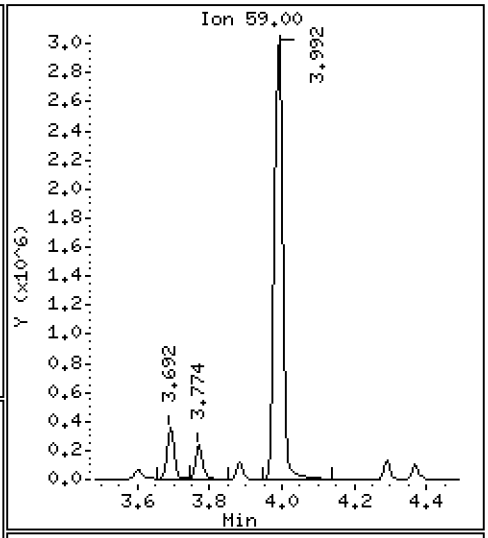
59 tert-Amyl Ethylether Concentration: 199.800 ug/L

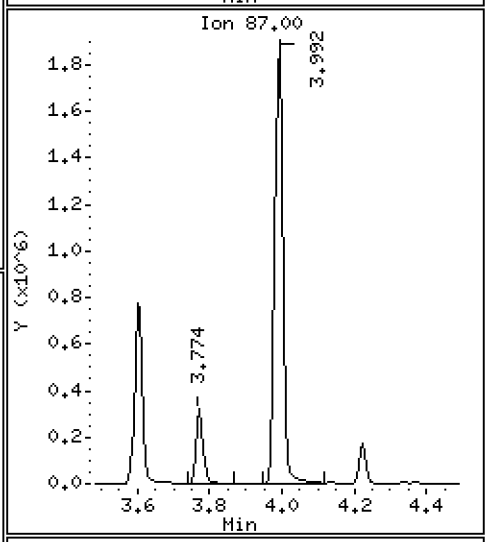


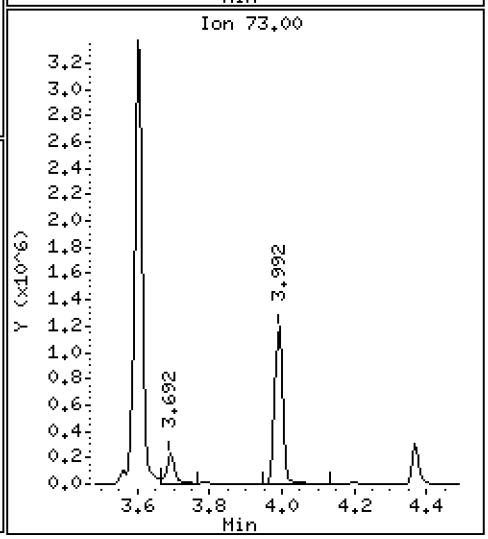












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 65

Date : 25-OCT-2016 01:36

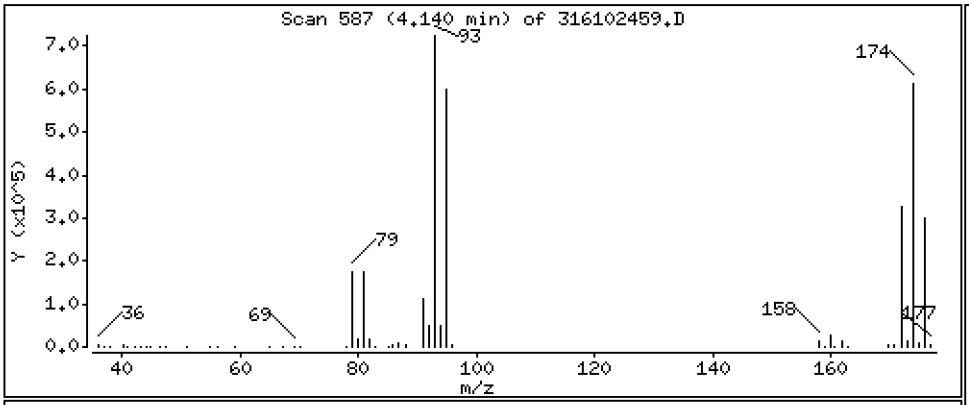
Client ID: Instrument: ms03.i

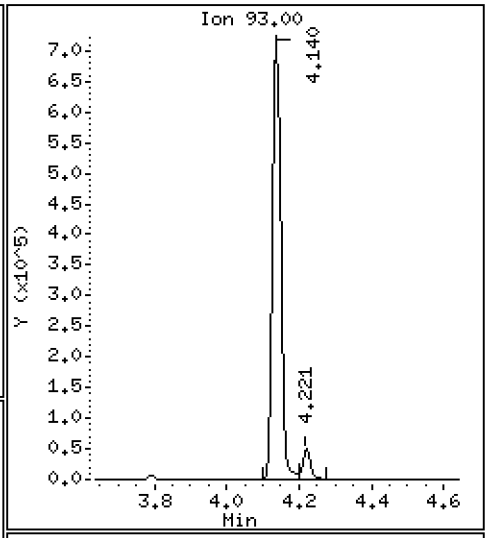
Sample Info: 1239;;1;1;6;;;

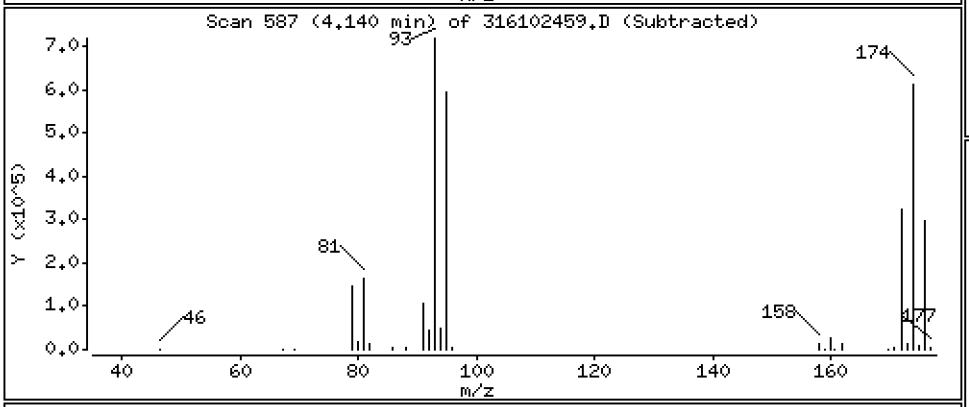
Purge Volume: 5.0 Operator: CJG

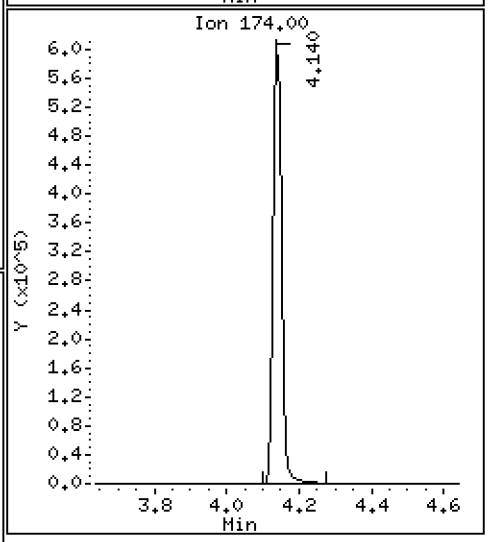
Column phase: DB-VRX Column diameter: 0.25

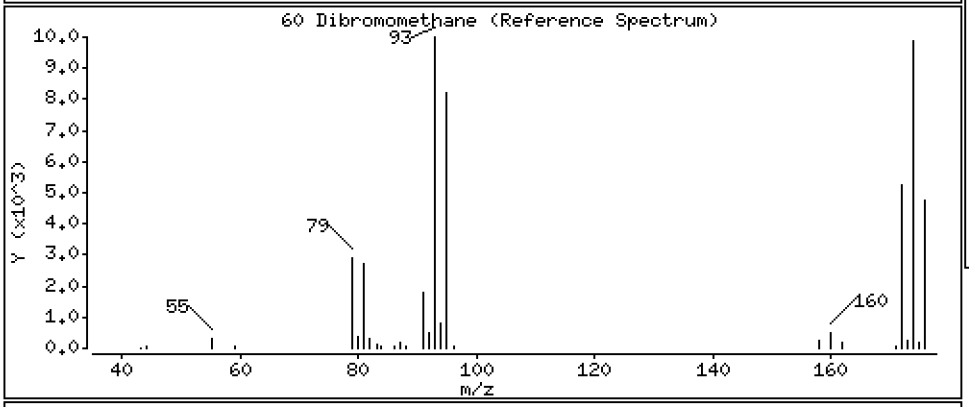
60 Dibromomethane Concentration: 199.912 ug/L

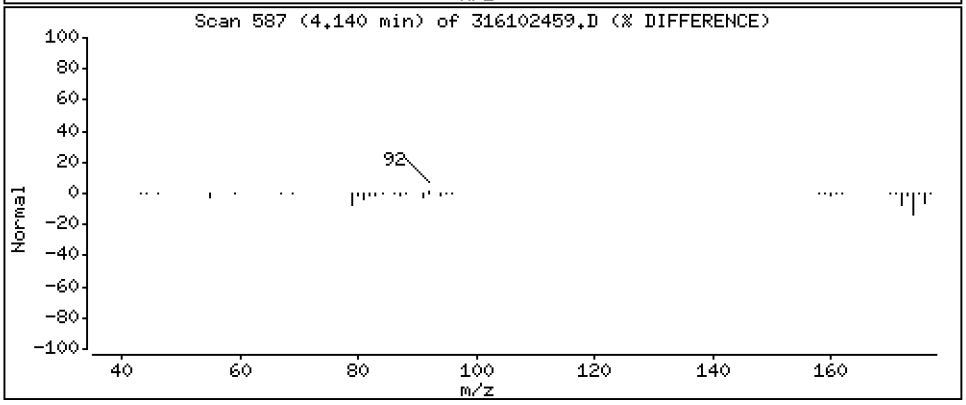












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 66

Date : 25-OCT-2016 01:36

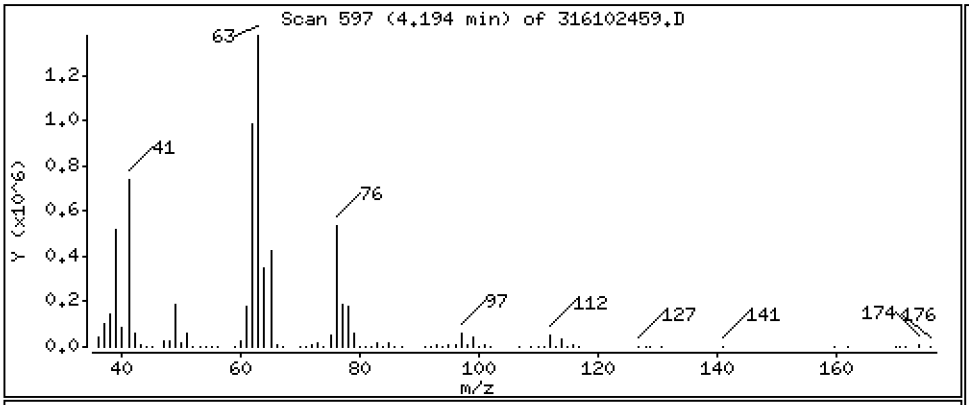
Client ID: Instrument: ms03.i

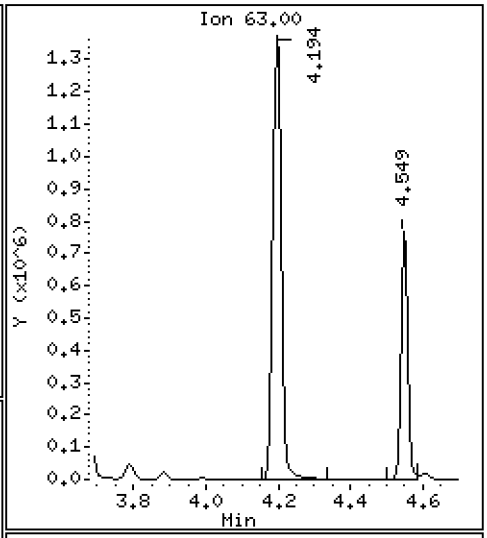
Sample Info: 1239;;1;1;6;;;

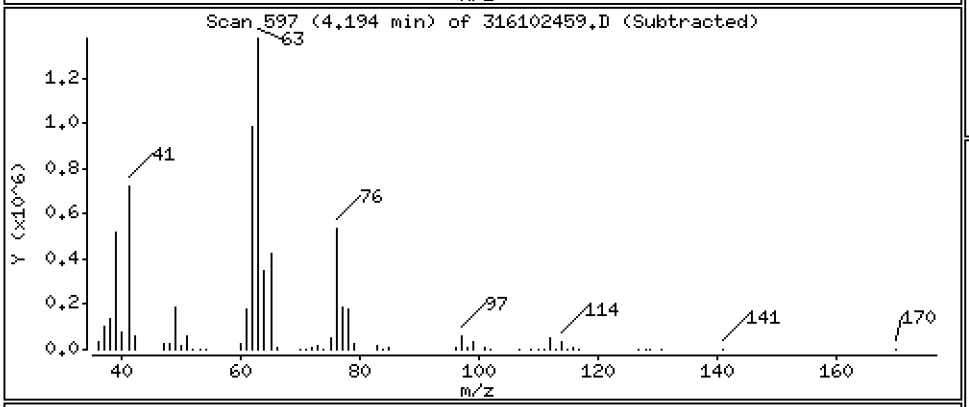
Purge Volume: 5.0 Operator: CJG

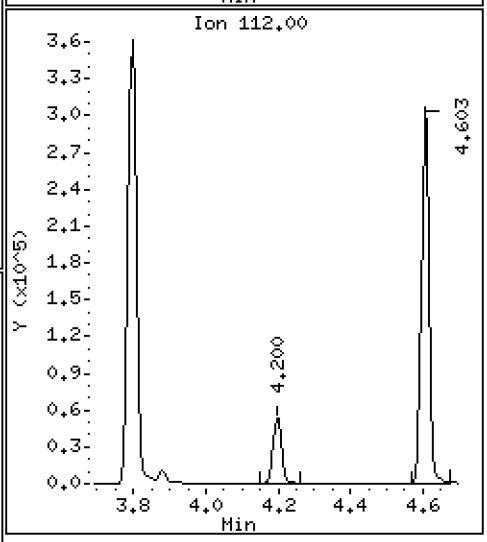
Column phase: DB-VRX Column diameter: 0.25

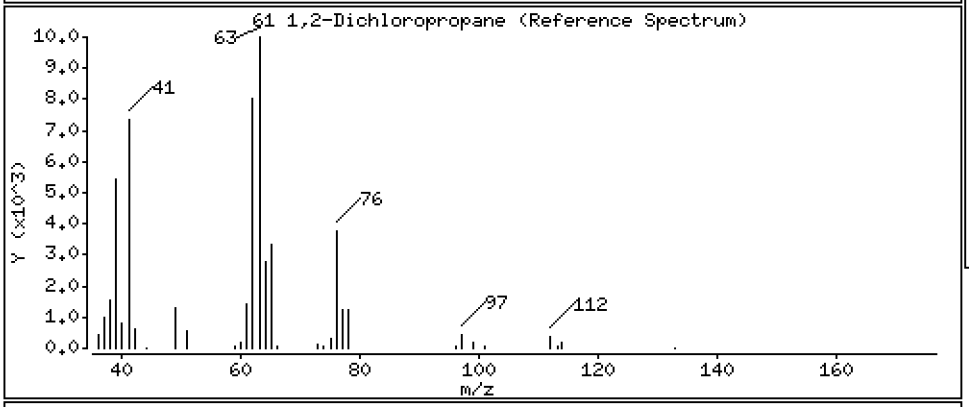
61 1,2-Dichloropropane Concentration: 199.932 ug/L

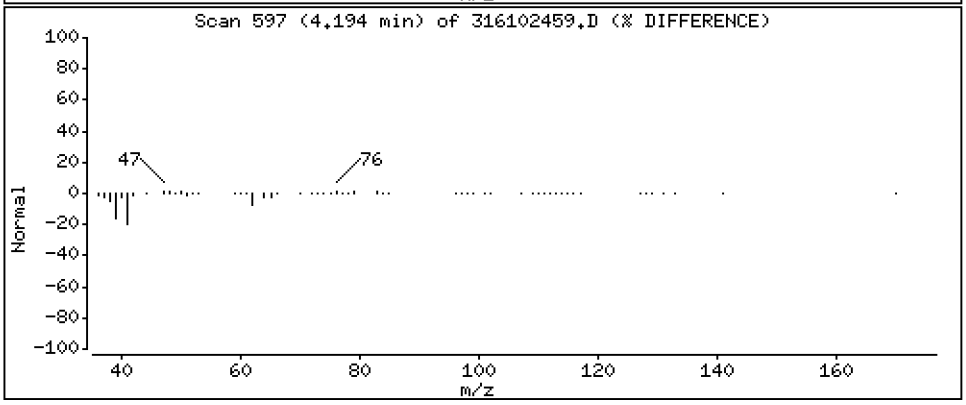












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 67

Date : 25-OCT-2016 01:36

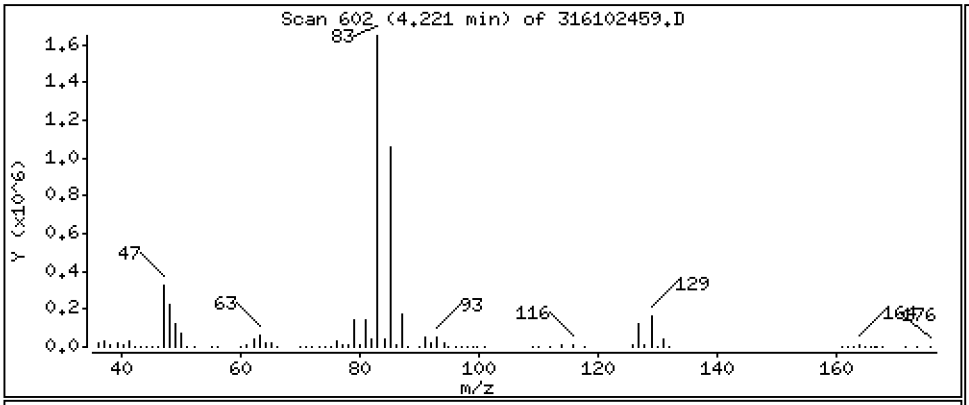
Client ID: Instrument: ms03.i

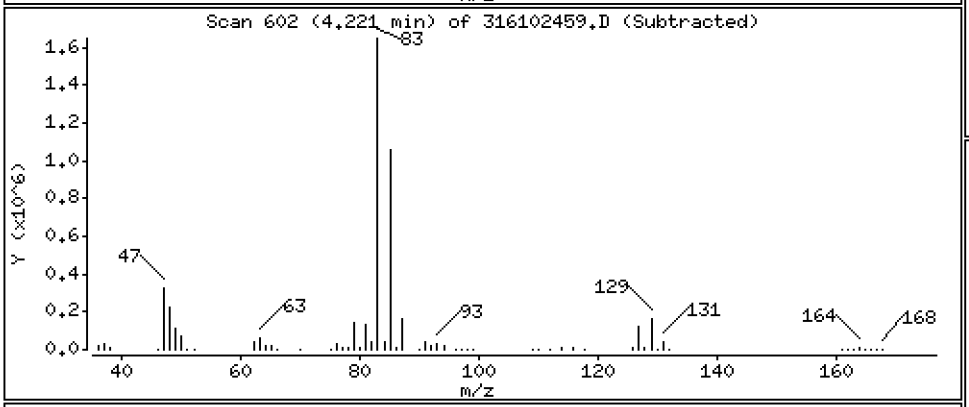
Sample Info: 1239;;1;1;6;;;

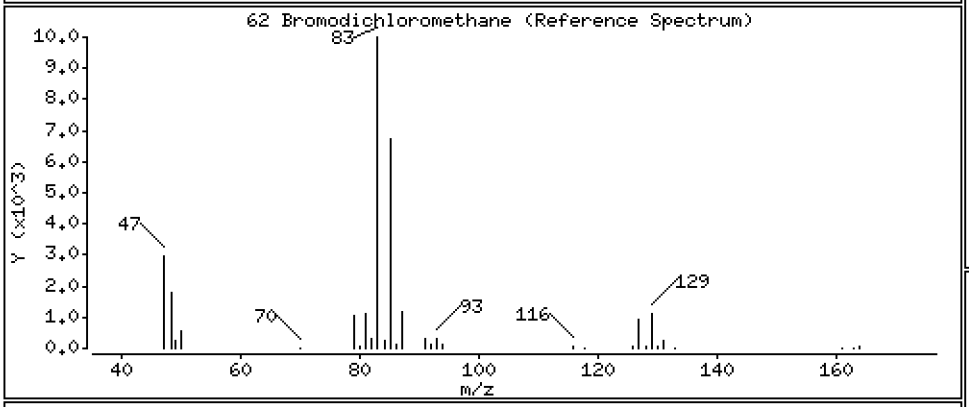
Purge Volume: 5.0 Operator: CJG

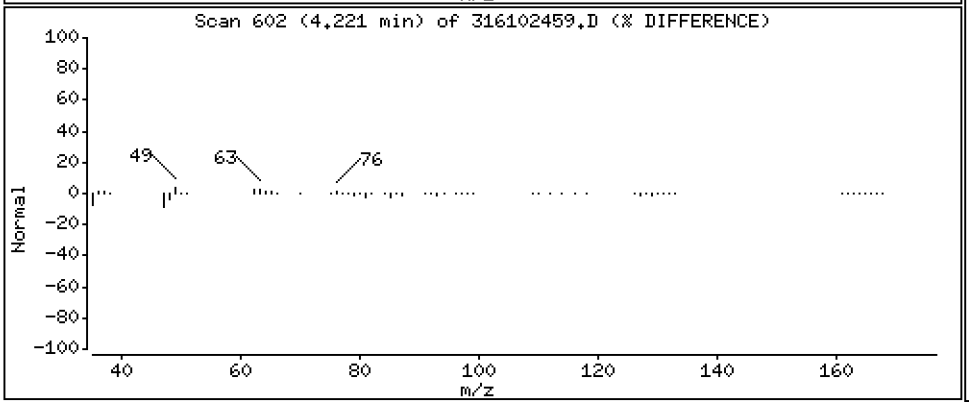
Column phase: DB-VRX Column diameter: 0.25

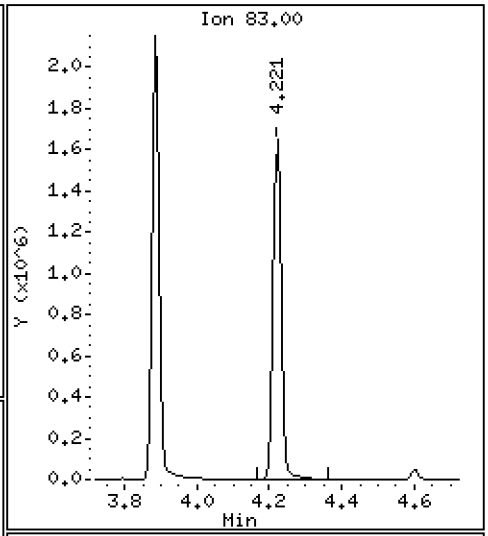
62 Bromodichloromethane Concentration: 199.874 ug/L

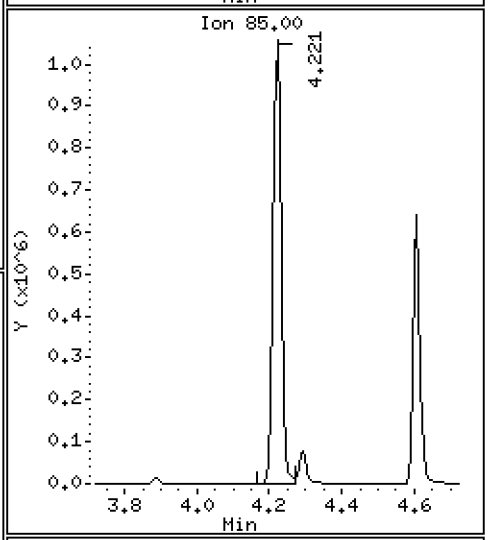


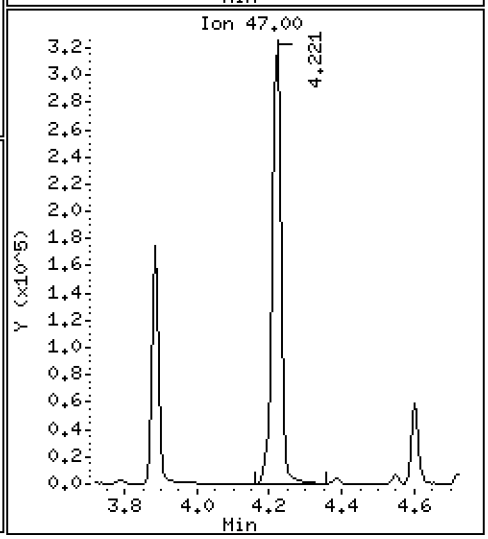












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 68

Date : 25-OCT-2016 01:36

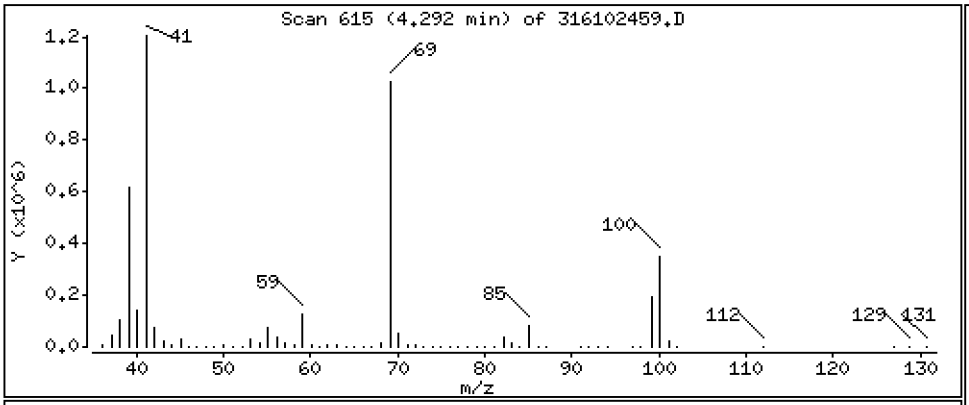
Client ID: Instrument: ms03.i

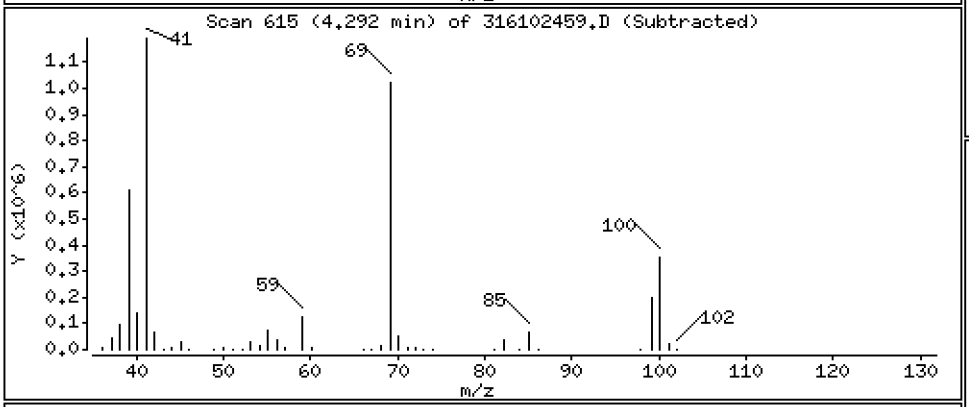
Sample Info: 1239;;1;1;6;;;

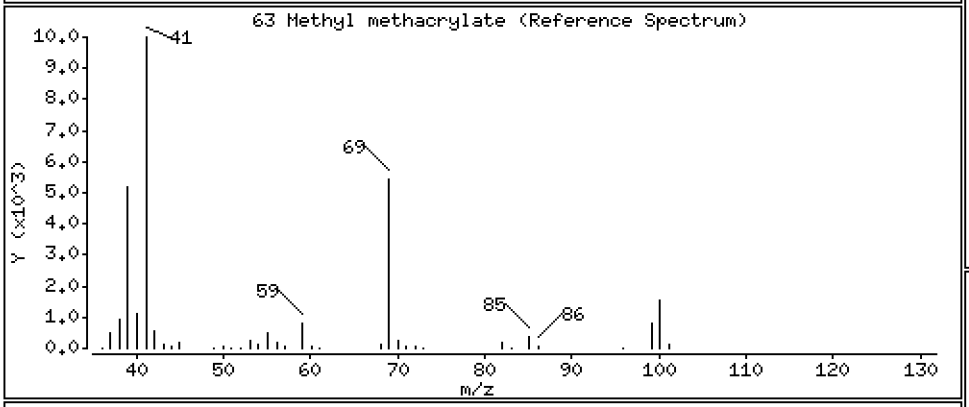
Purge Volume: 5.0 Operator: CJG

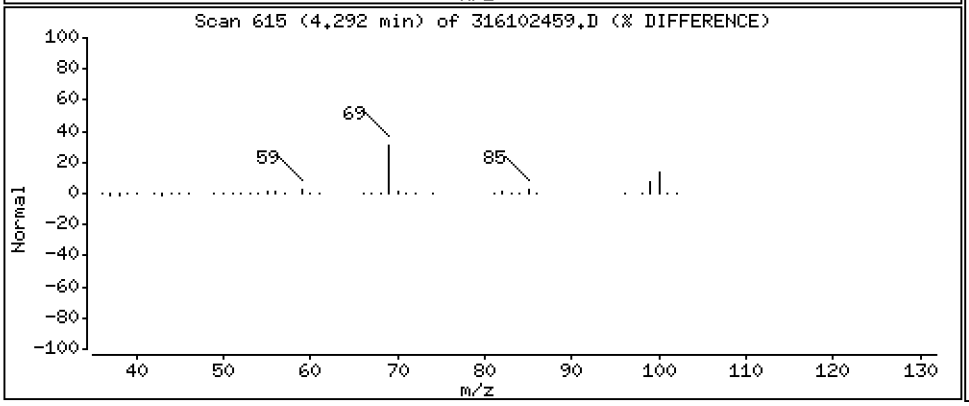
Column phase: DB-VRX Column diameter: 0.25

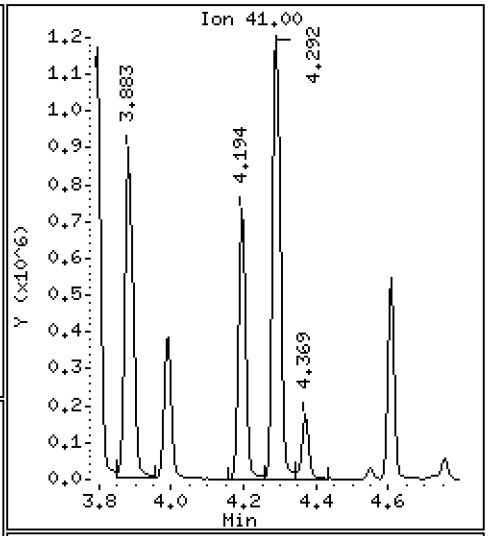
63 Methyl methacrylate Concentration: 199.729 ug/L

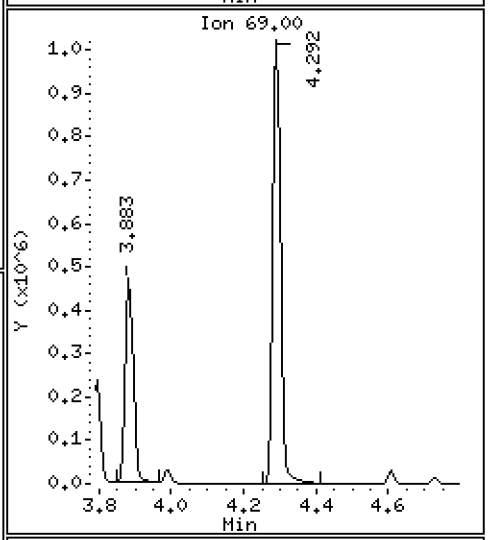


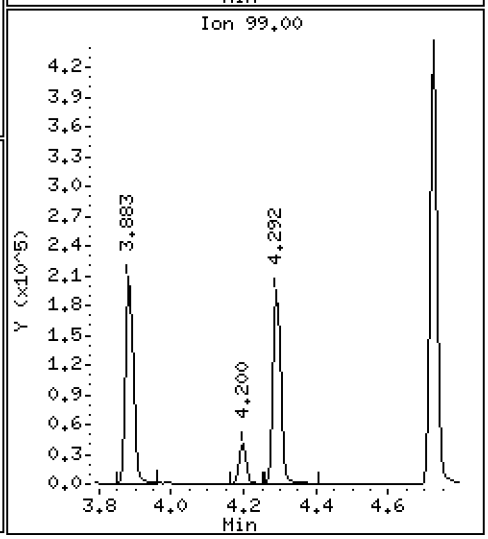












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 69

Date : 25-OCT-2016 01:36

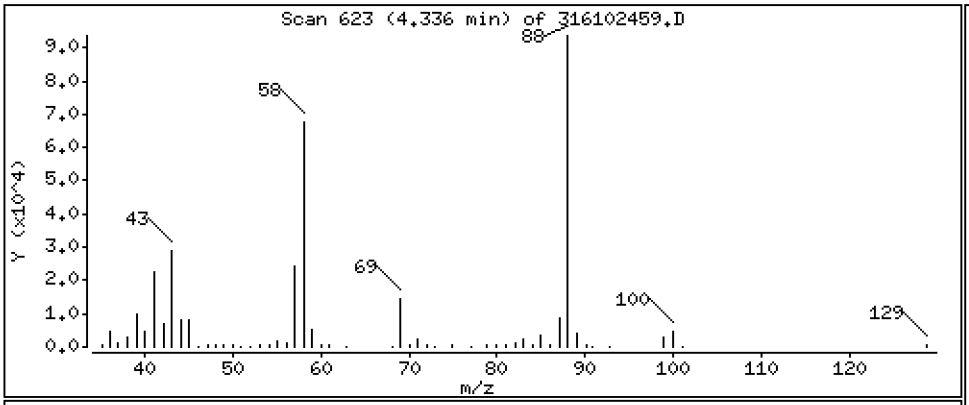
Client ID: Instrument: ms03.i

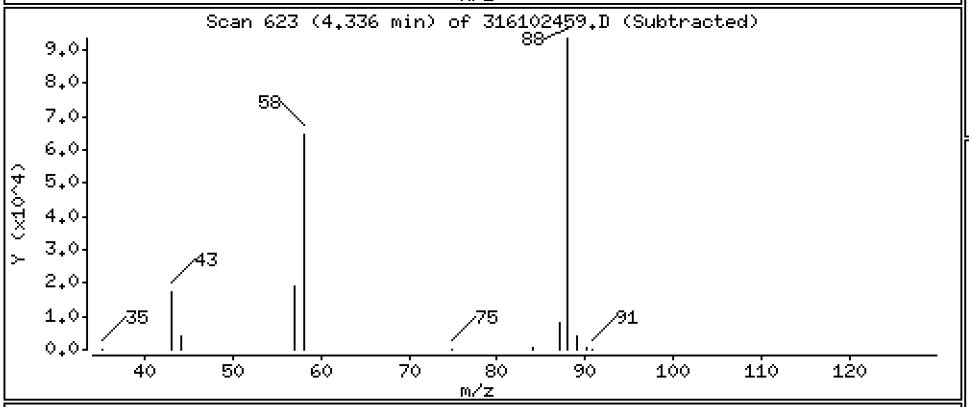
Sample Info: 1239;;1;1;6;;;

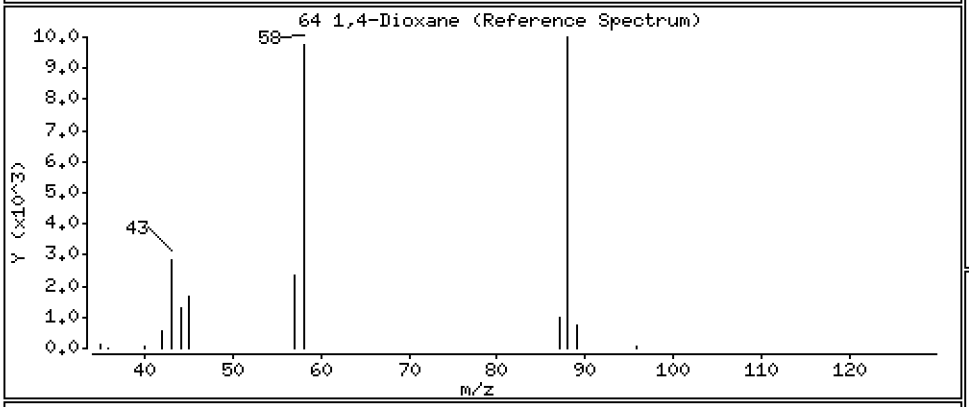
Purge Volume: 5.0 Operator: CJG

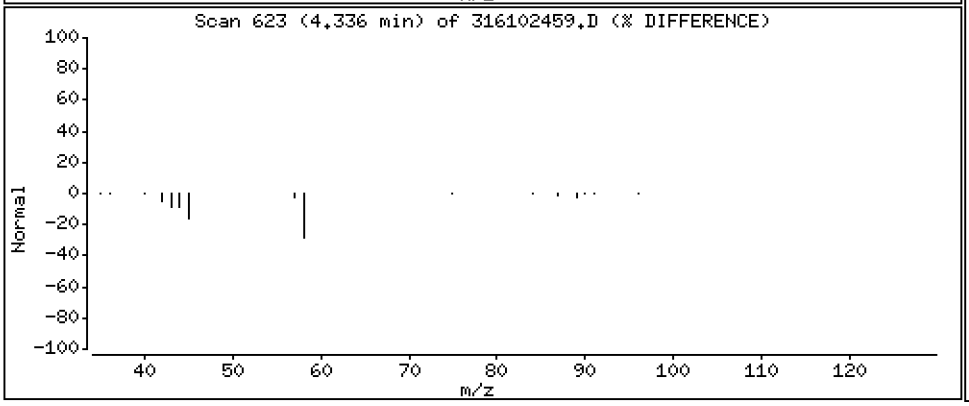
Column phase: DB-VRX Column diameter: 0.25

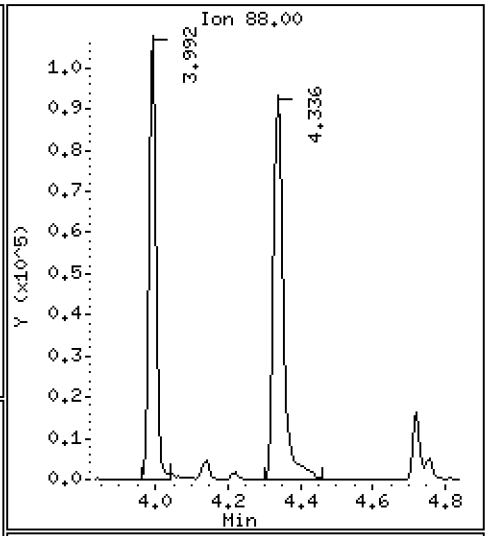
64 1,4-Dioxane Concentration: 4737.25 ug/L

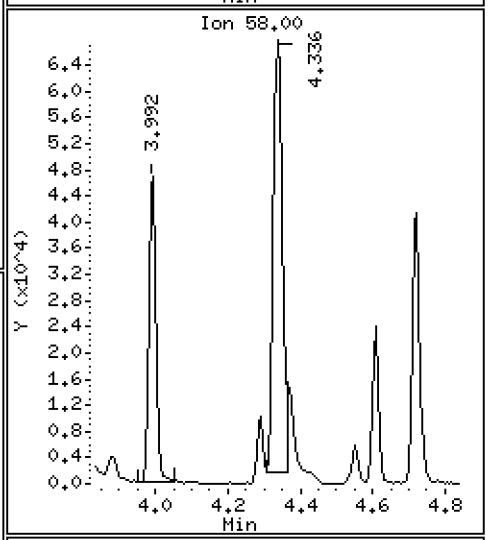


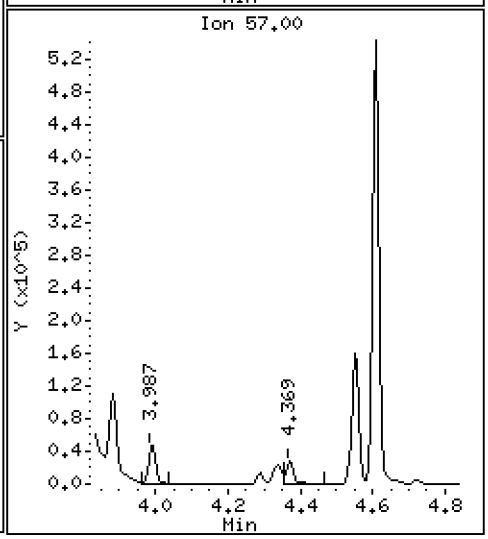












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 70

Date : 25-OCT-2016 01:36

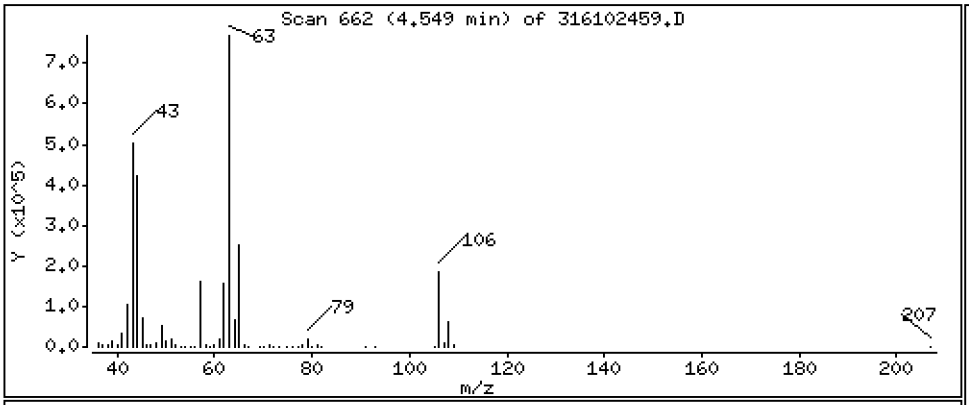
Client ID: Instrument: ms03.i

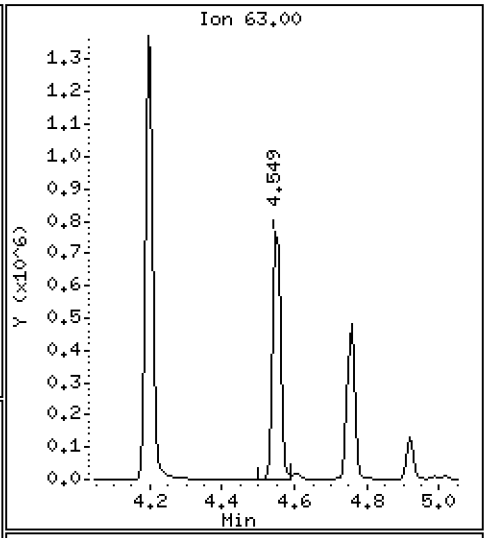
Sample Info: 1239;;1;1;6;;;

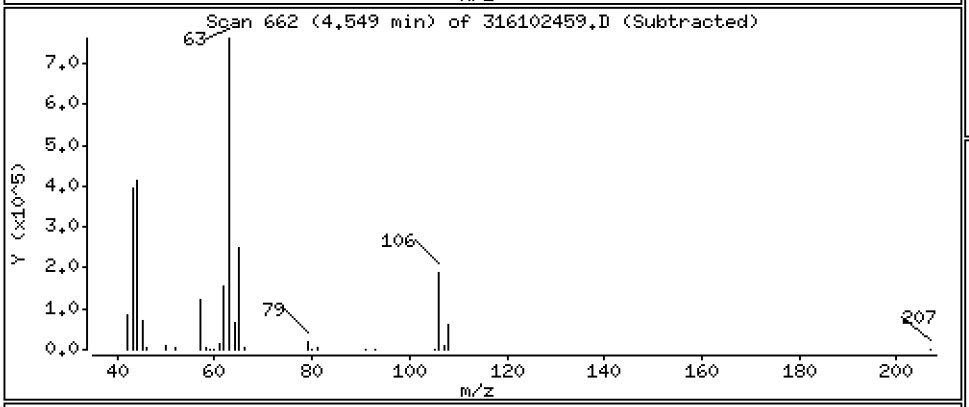
Purge Volume: 5.0 Operator: CJG

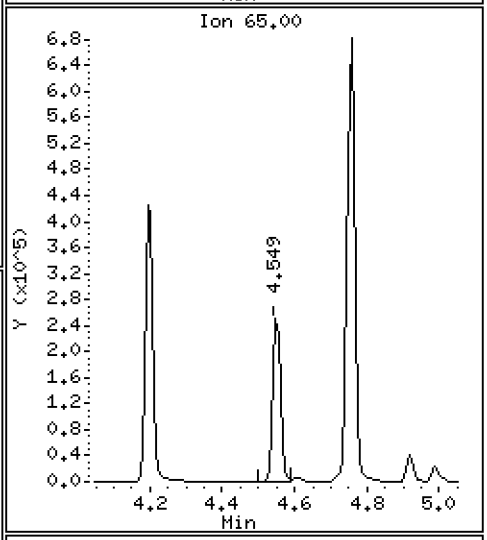
Column phase: DB-VRX Column diameter: 0.25

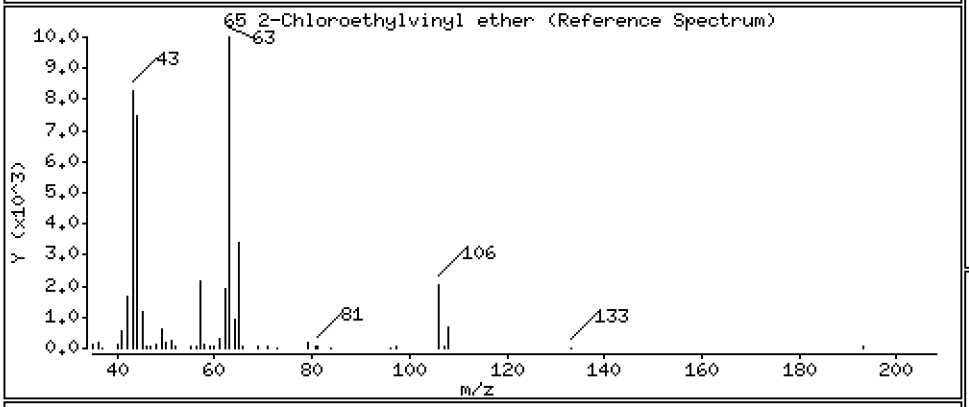
65 2-Chloroethylvinyl ether Concentration: 199.747 ug/L

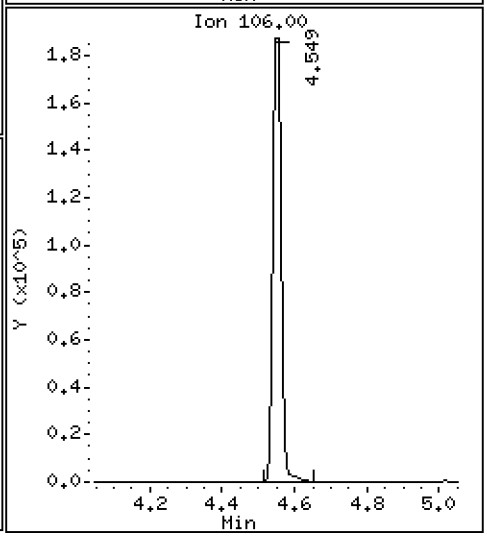


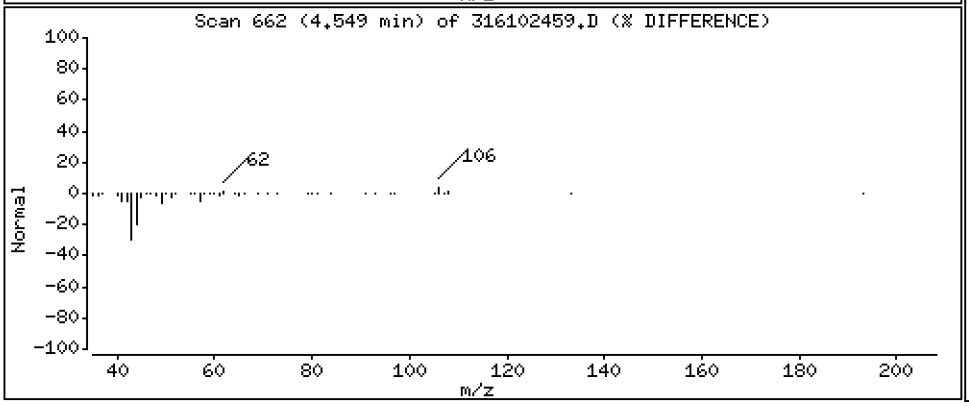












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 71

Date : 25-OCT-2016 01:36

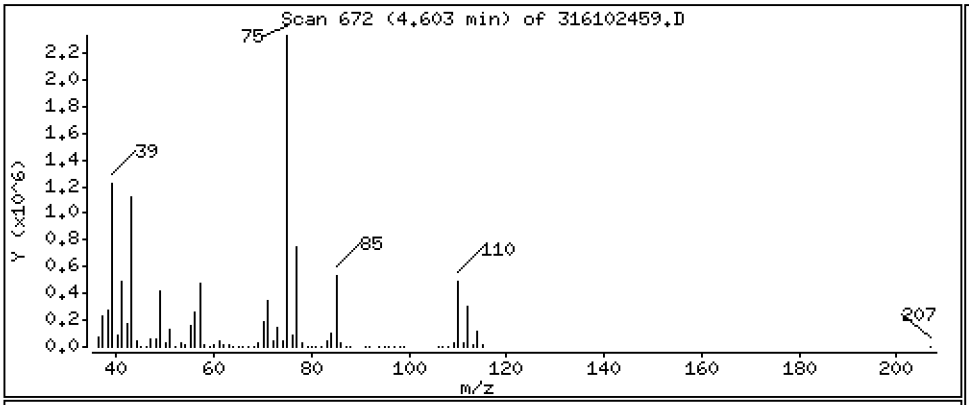
Client ID: Instrument: ms03.i

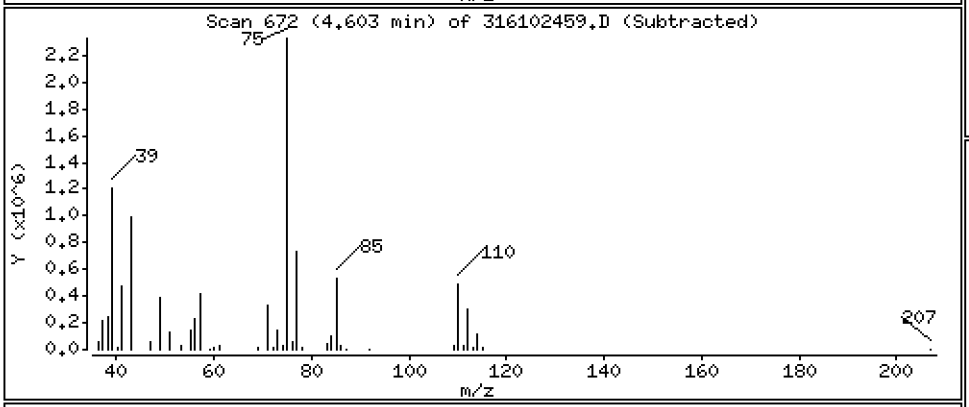
Sample Info: 1239;;1;1;6;;;

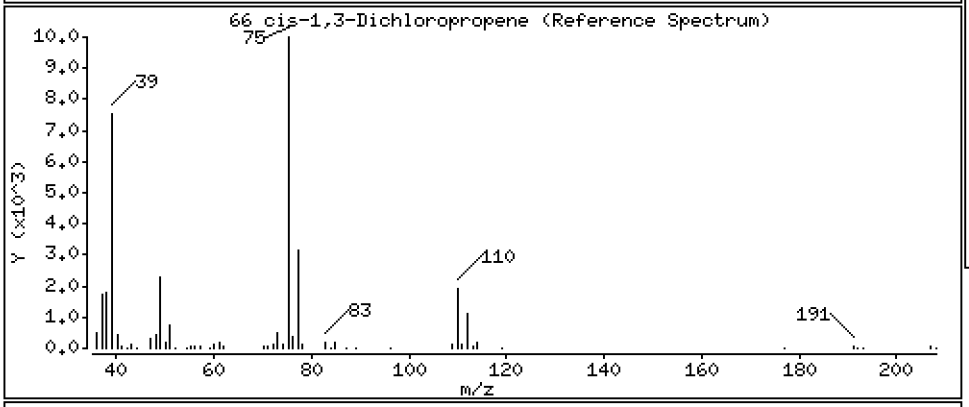
Purge Volume: 5.0 Operator: CJG

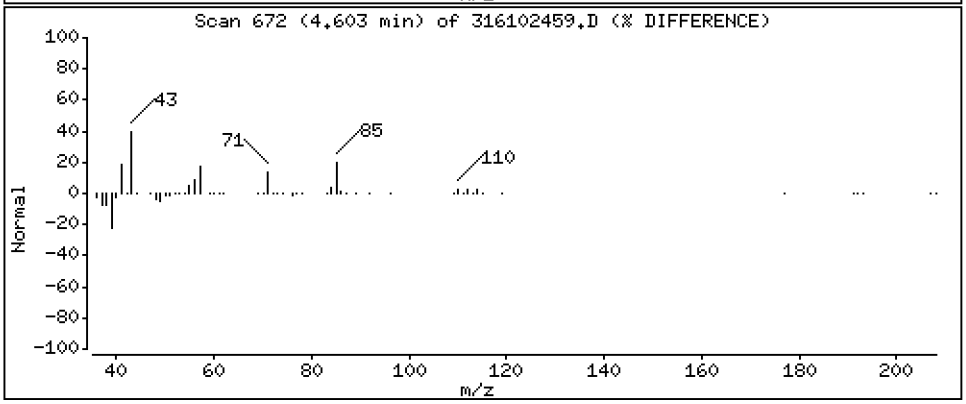
Column phase: DB-VRX Column diameter: 0.25

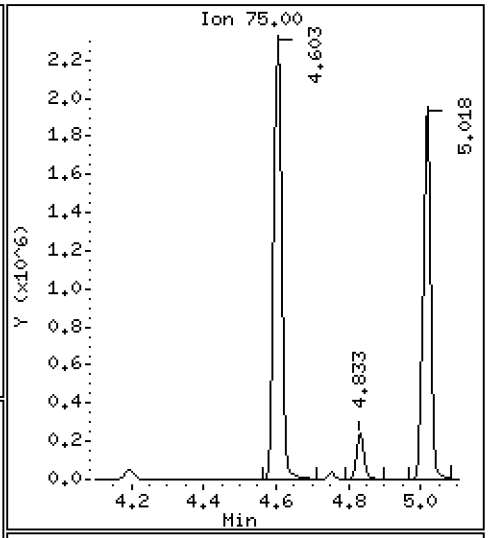
66 cis-1,3-Dichloropropene Concentration: 199.825 ug/L

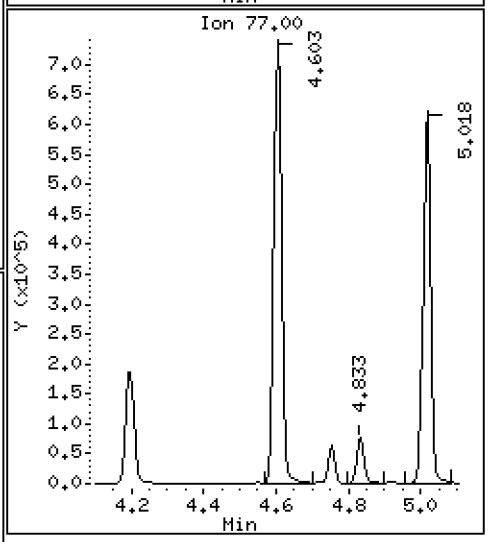












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 72

Date : 25-OCT-2016 01:36

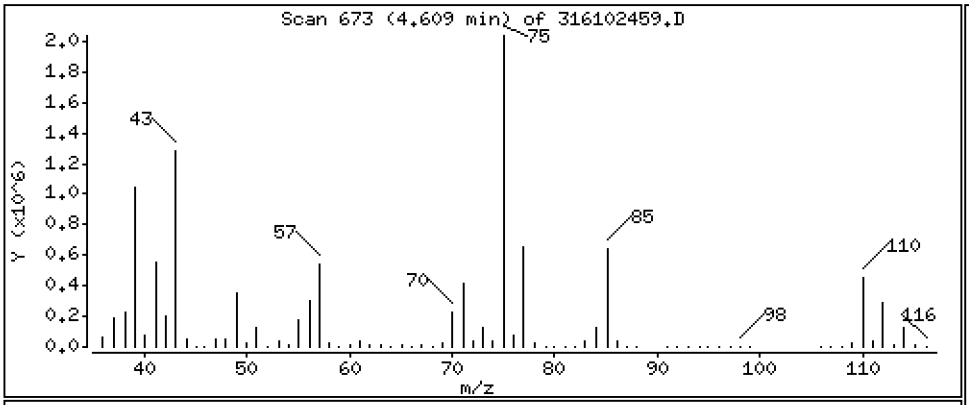
Client ID: Instrument: ms03.i

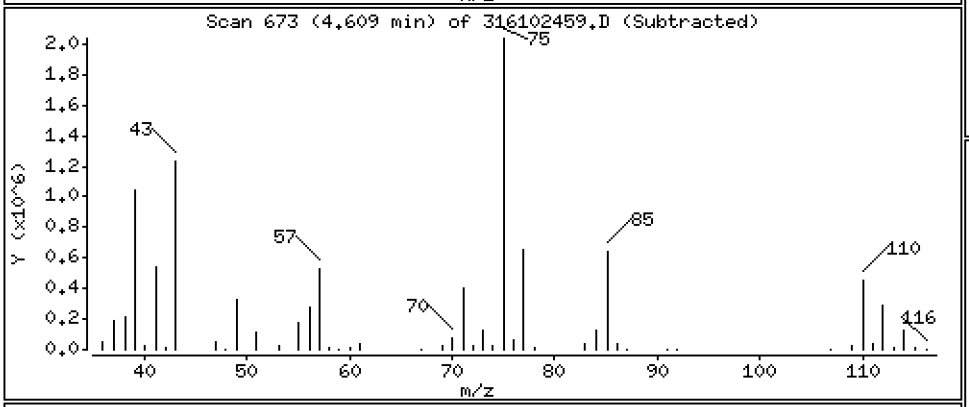
Sample Info: 1239;;1;1;6;;;

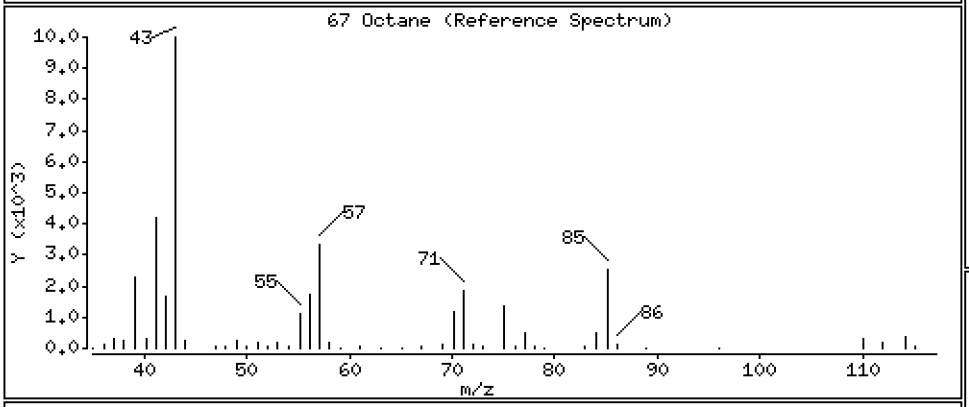
Purge Volume: 5.0 Operator: CJG

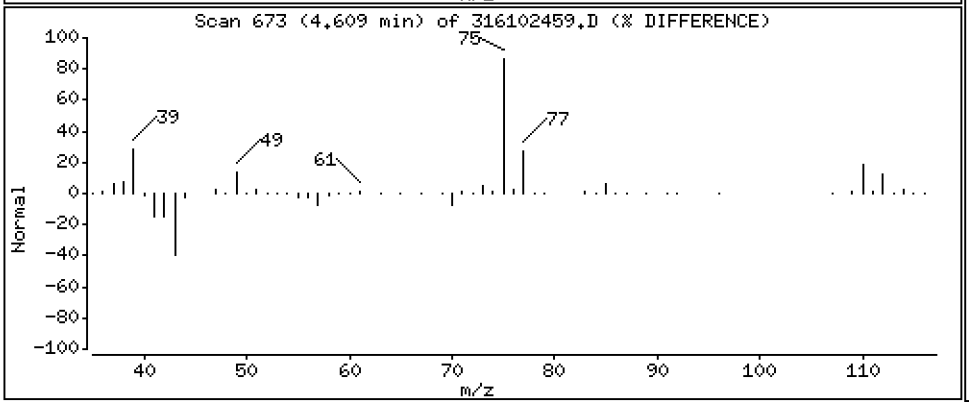
Column phase: DB-VRX Column diameter: 0.25

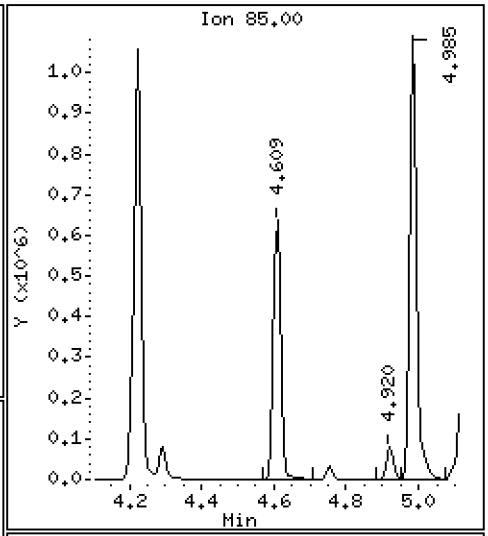
67 Octane Concentration: 199.759 ug/L

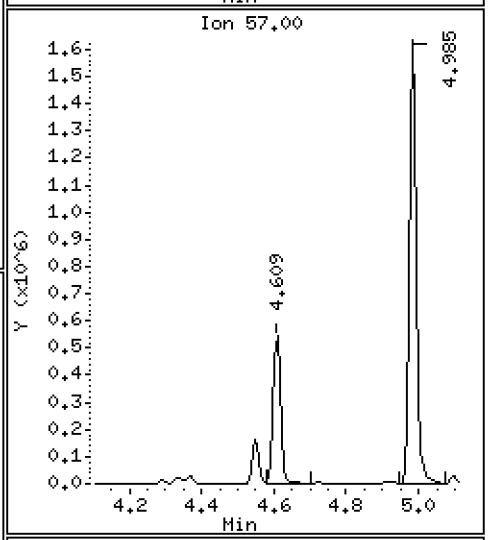


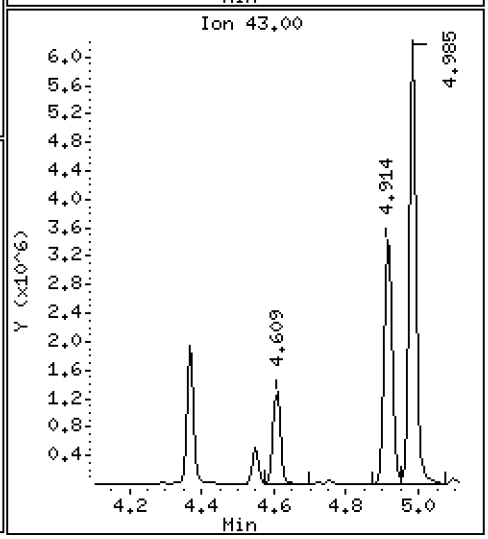












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 73

Date : 25-OCT-2016 01:36

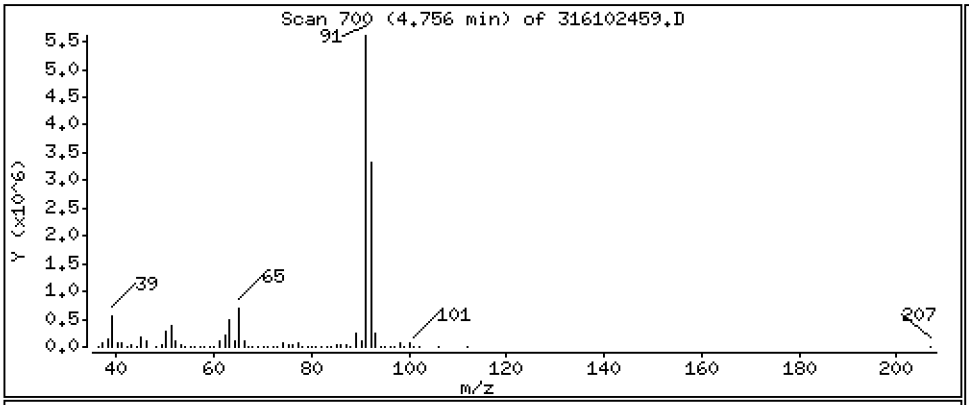
Client ID: Instrument: ms03.i

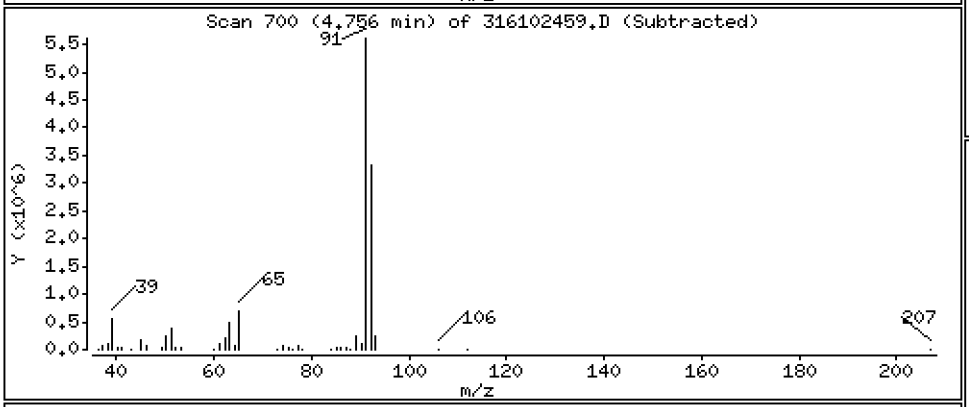
Sample Info: 1239;;1;1;6;;;

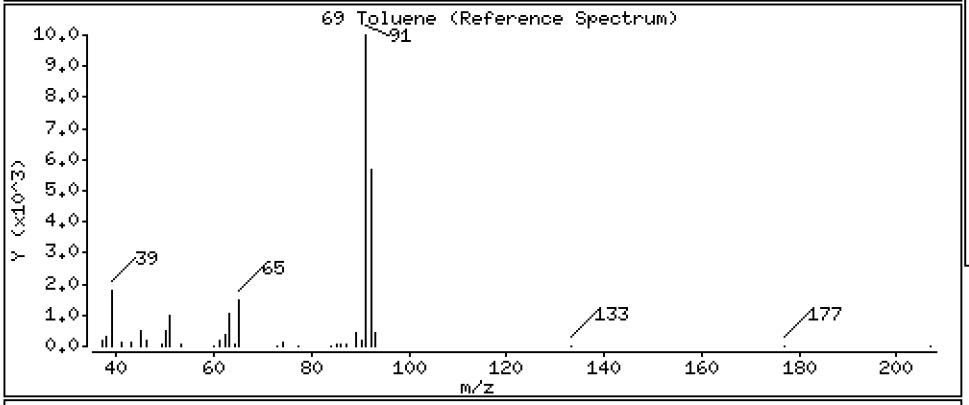
Purge Volume: 5.0 Operator: CJG

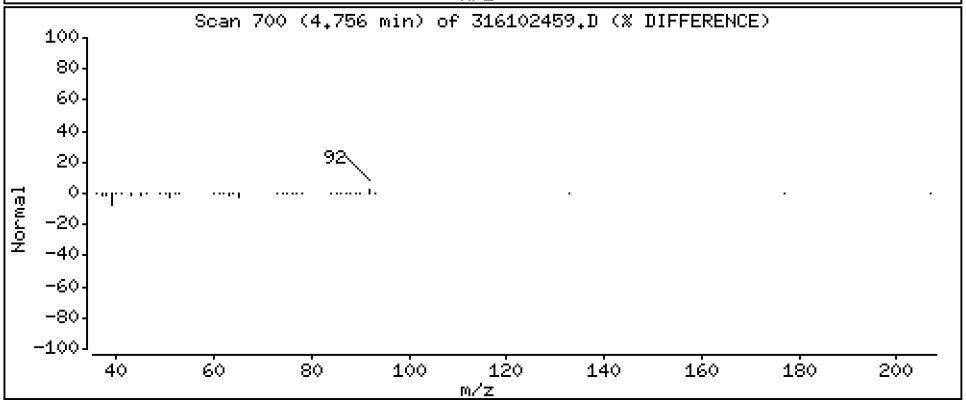
Column phase: DB-VRX Column diameter: 0.25

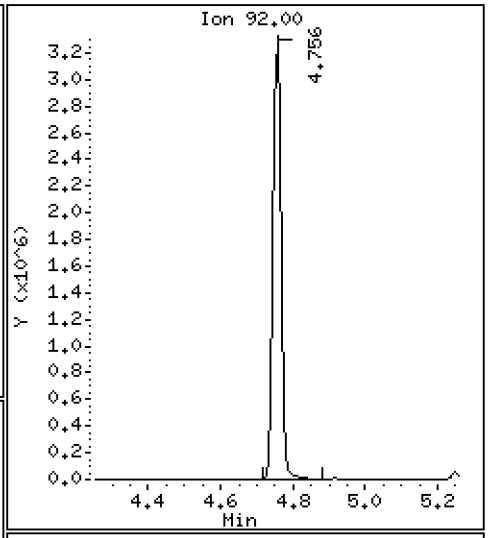
69 Toluene Concentration: 200.127 ug/L

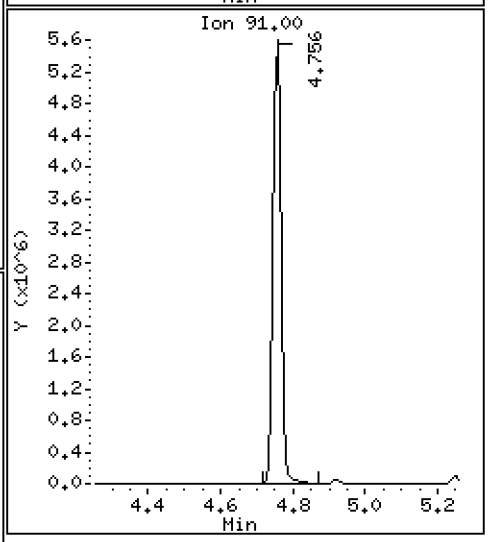












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 74

Date : 25-OCT-2016 01:36

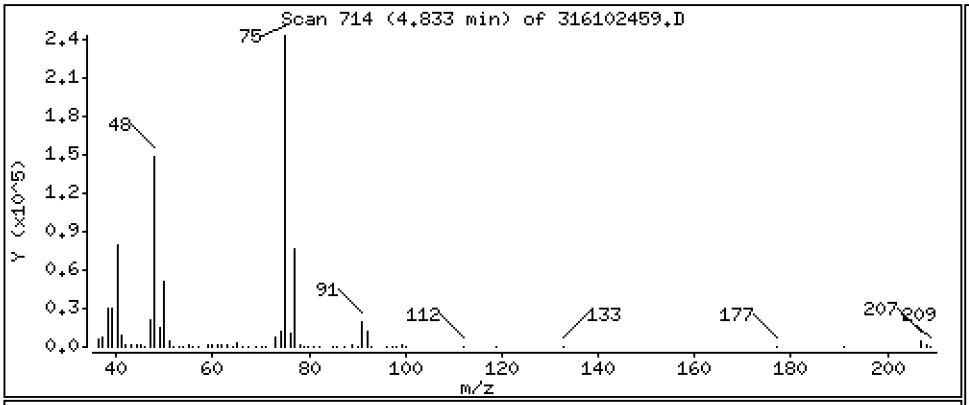
Client ID: Instrument: ms03.i

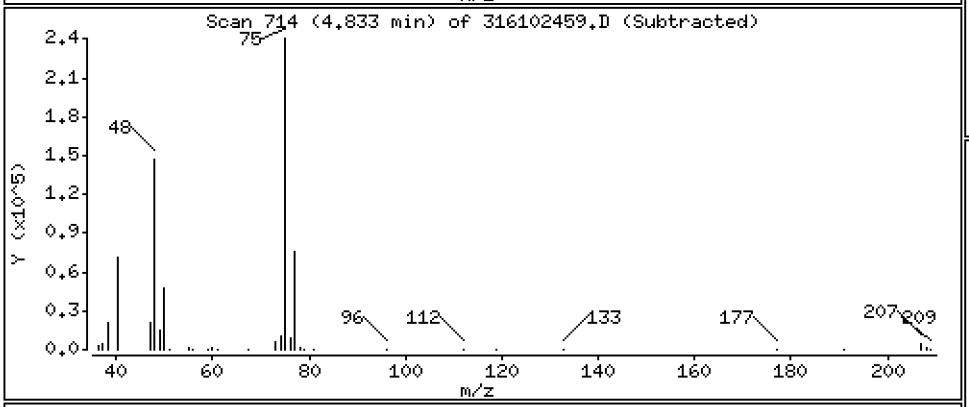
Sample Info: 1239;;1;1;6;;;

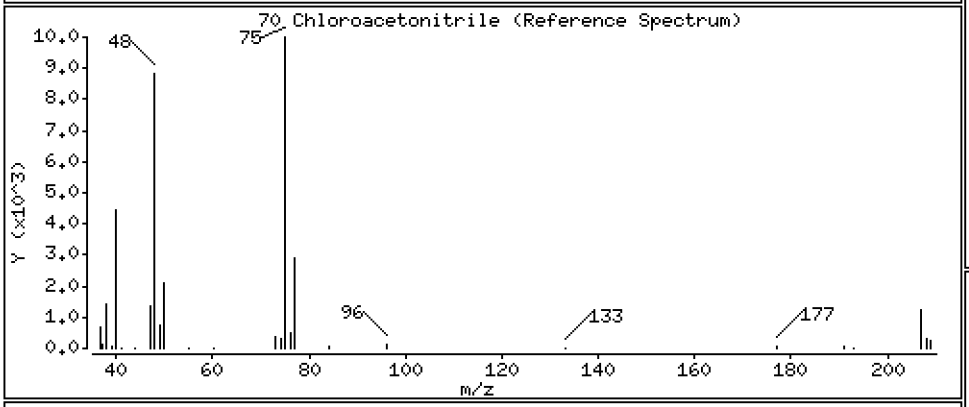
Purge Volume: 5.0 Operator: CJG

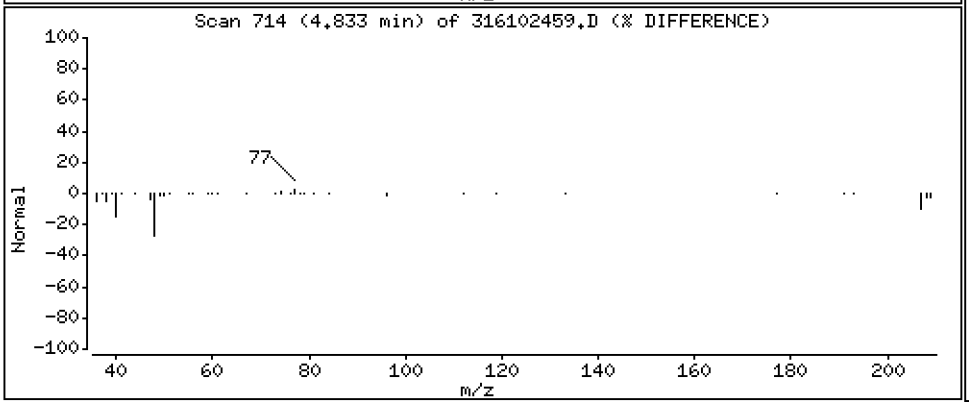
Column phase: DB-VRX Column diameter: 0.25

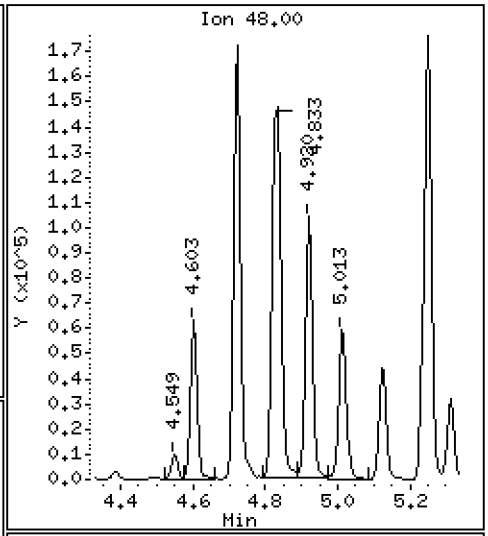
70 Chloroacetonitrile Concentration: 965.683 ug/L

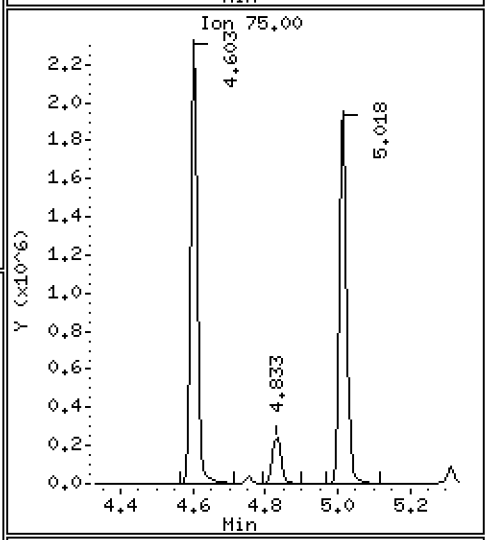


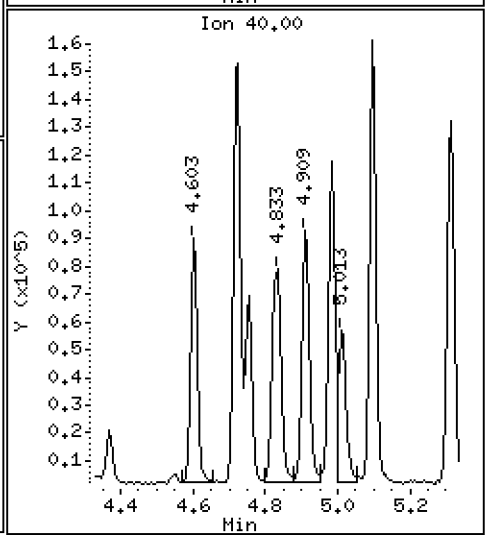












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 75

Date : 25-OCT-2016 01:36

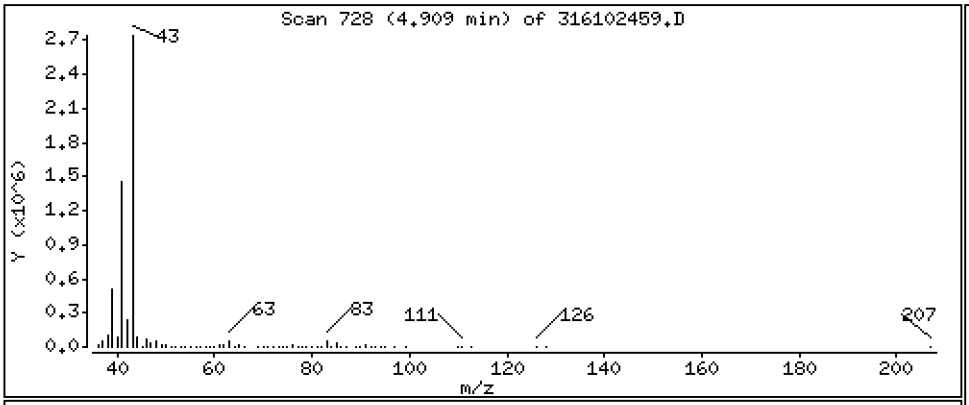
Client ID: Instrument: ms03.i

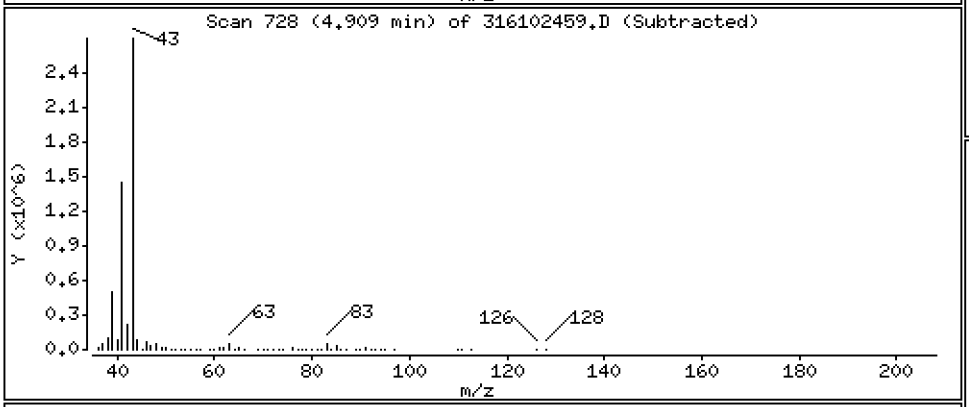
Sample Info: 1239;;1;1;6;;;

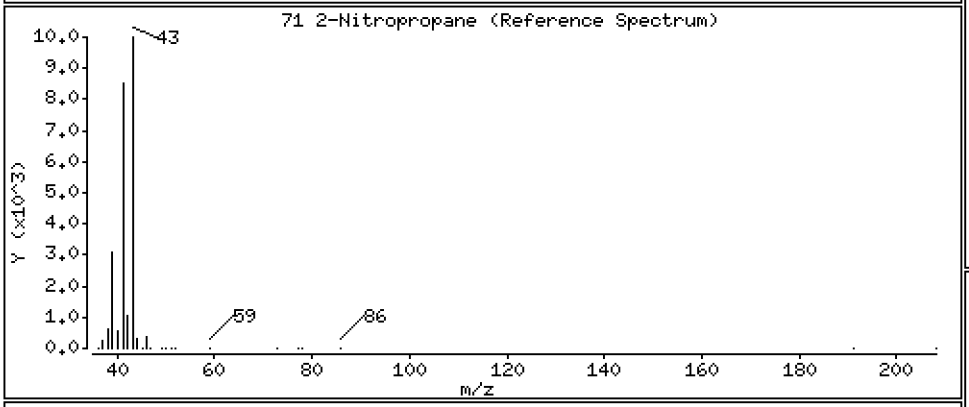
Purge Volume: 5.0 Operator: CJG

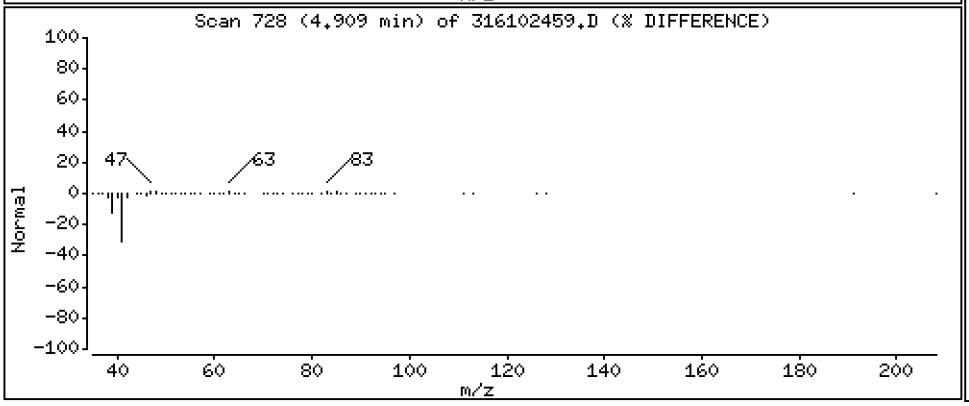
Column phase: DB-VRX Column diameter: 0.25

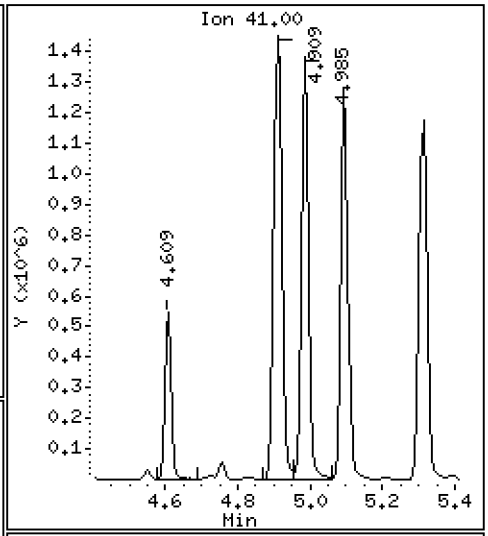
71 2-Nitropropane Concentration: 939.738 ug/L

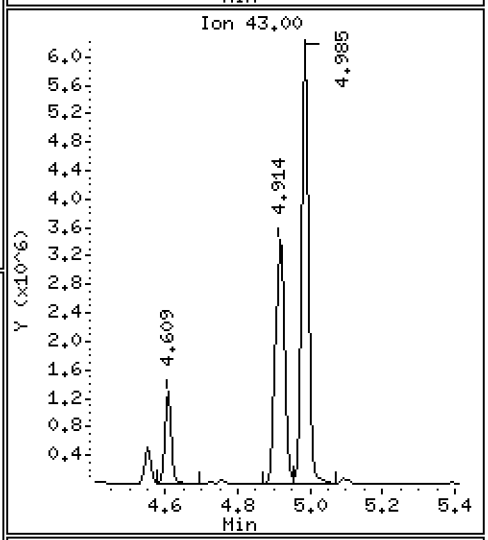


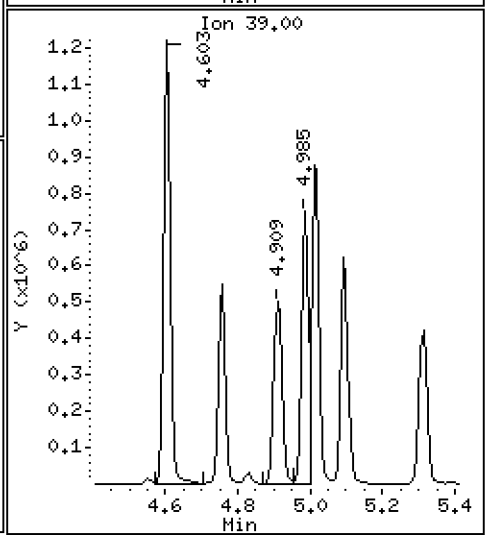












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 76

Date : 25-OCT-2016 01:36

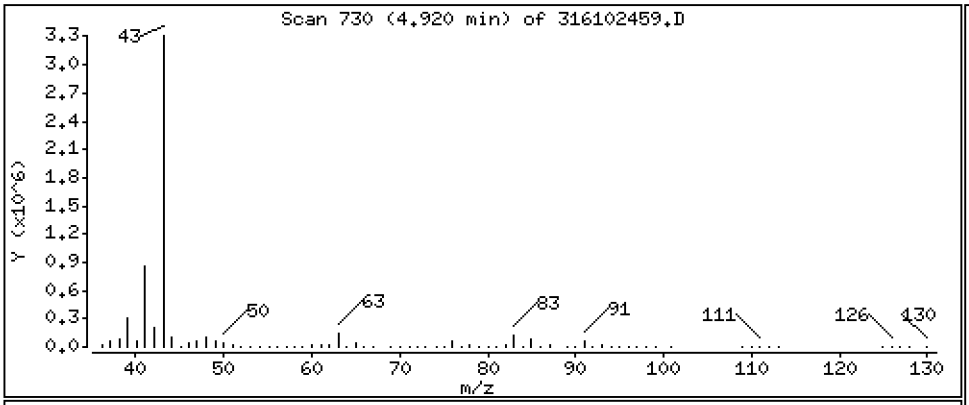
Client ID: Instrument: ms03.i

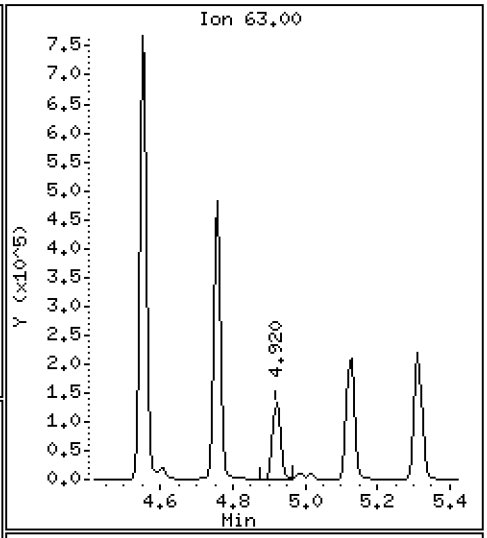
Sample Info: 1239;;1;1;6;;;

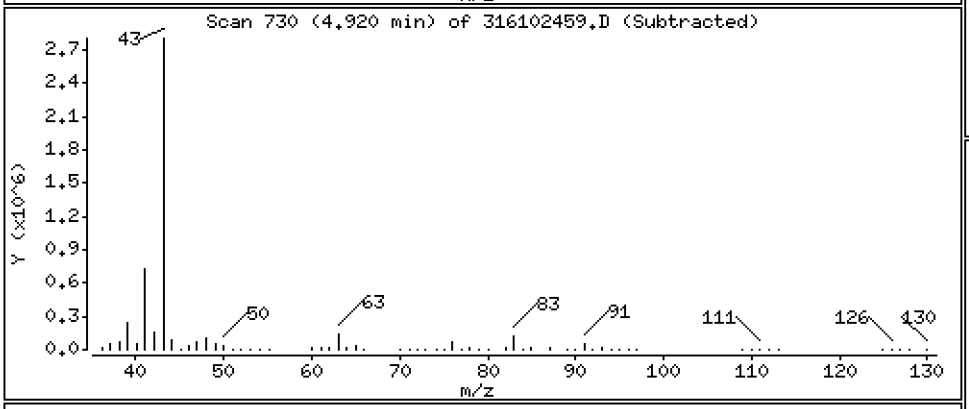
Purge Volume: 5.0 Operator: CJG

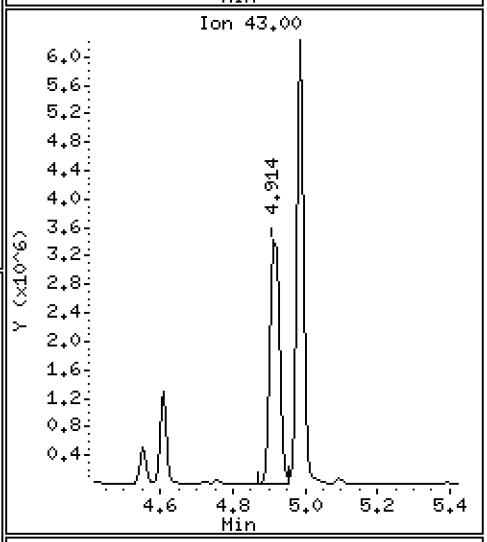
Column phase: DB-VRX Column diameter: 0.25

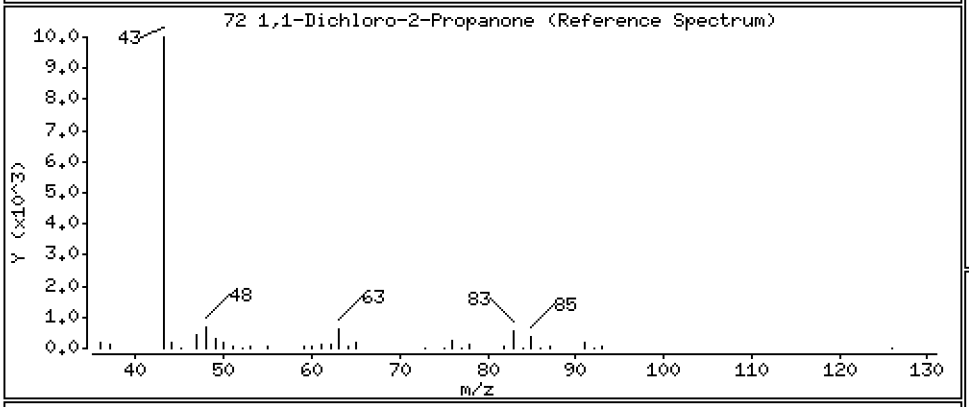
72 1,1-Dichloro-2-Propanone Concentration: 1000.20 ug/L

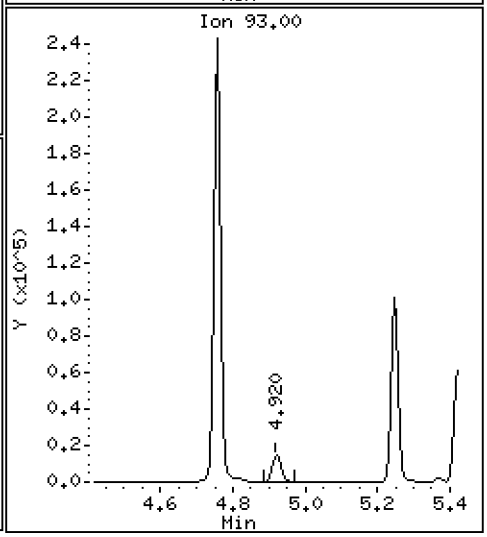


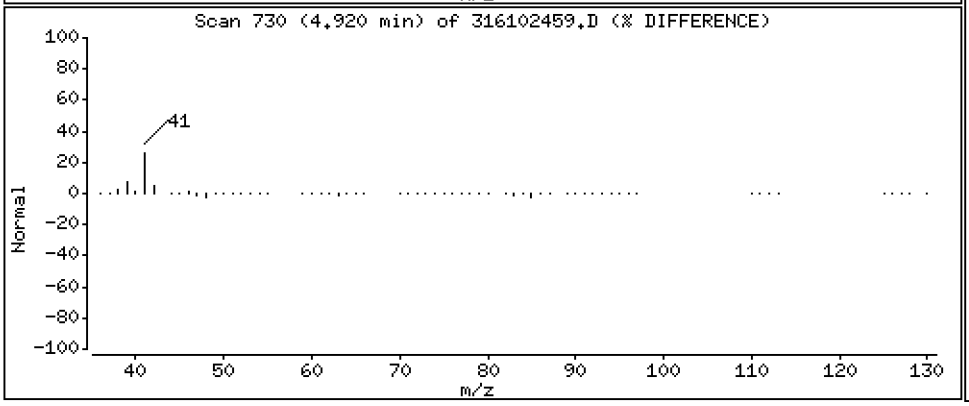












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 77

Date : 25-OCT-2016 01:36

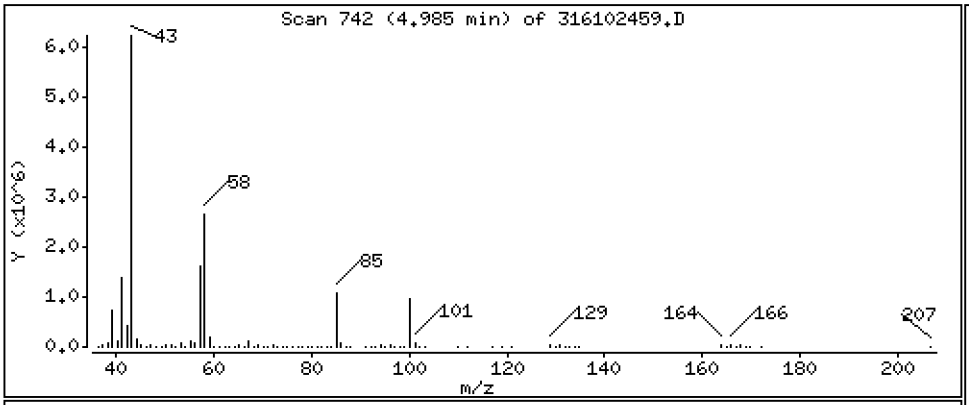
Client ID: Instrument: ms03.i

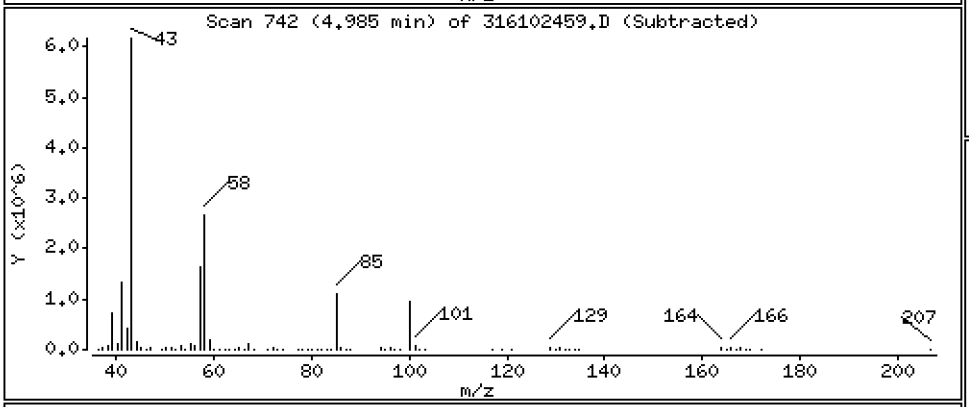
Sample Info: 1239;;1;1;6;;;

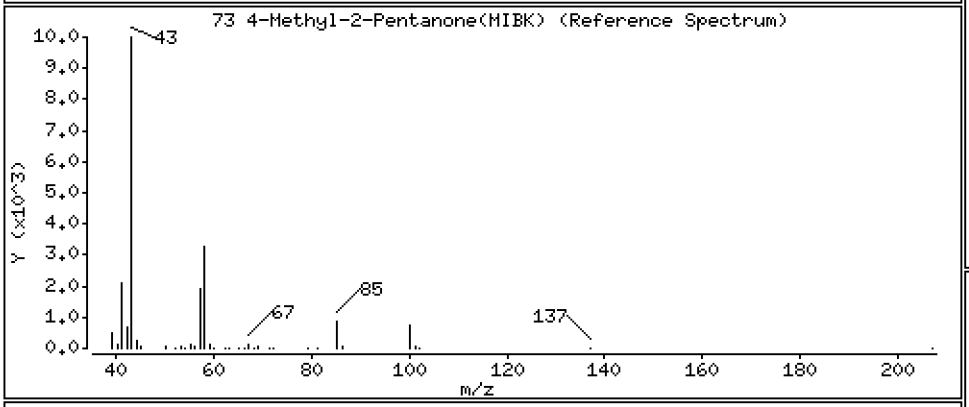
Purge Volume: 5.0 Operator: CJG

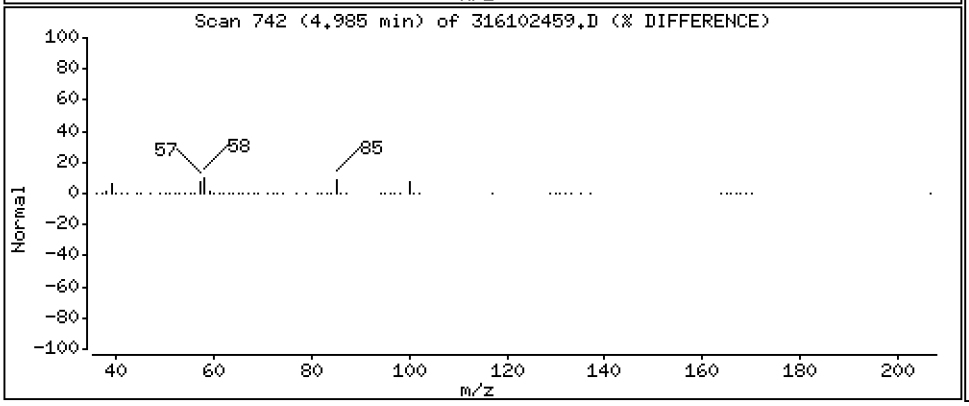
Column phase: DB-VRX Column diameter: 0.25

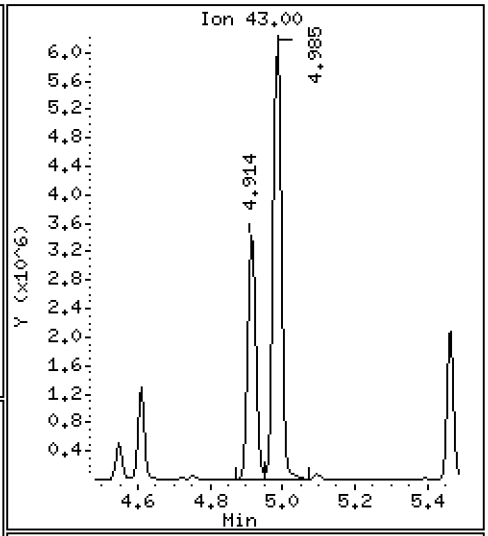
73 4-Methyl-2-Pentanone(MIBK) Concentration: 1000.54 ug/L

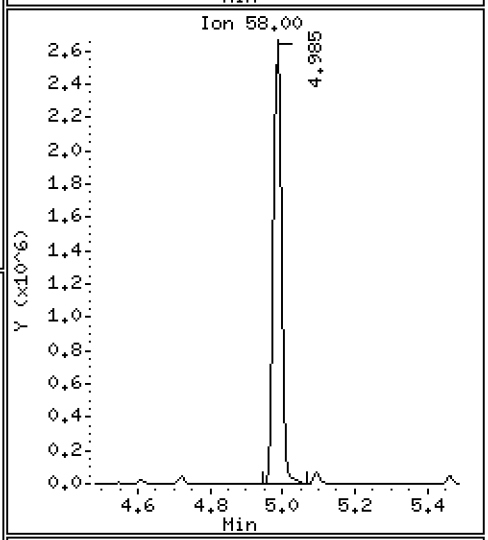


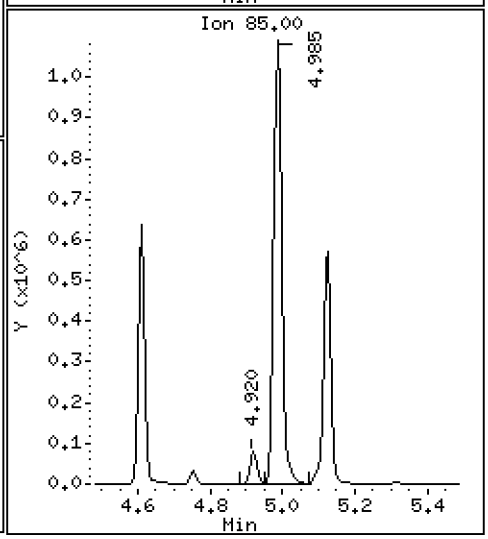












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 78

Date : 25-OCT-2016 01:36

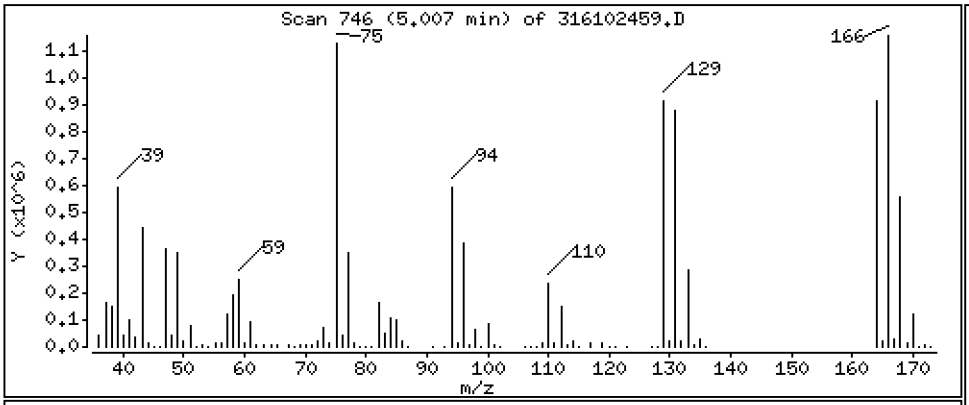
Client ID: Instrument: ms03.i

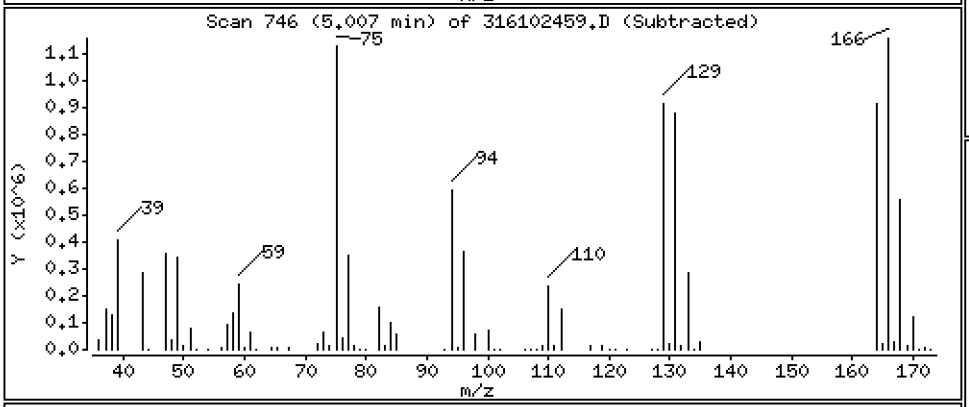
Sample Info: 1239;;1;1;6;;;

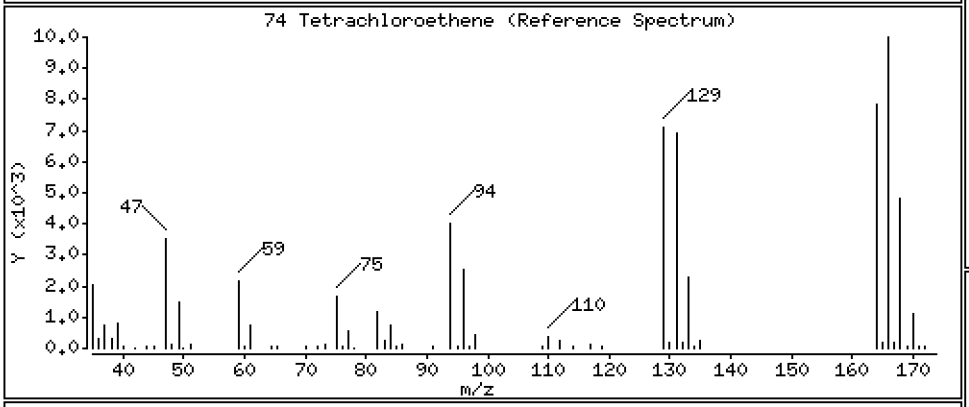
Purge Volume: 5.0 Operator: CJG

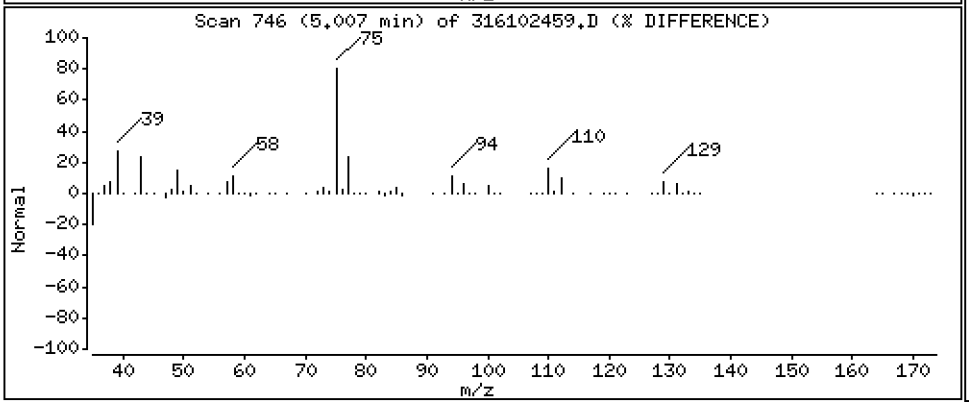
Column phase: DB-VRX Column diameter: 0.25

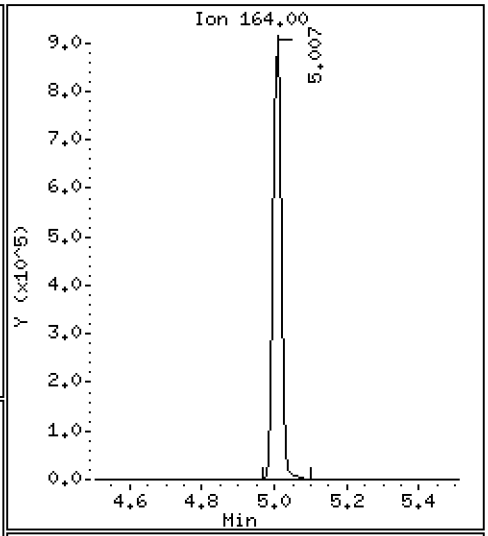
74 Tetrachloroethene Concentration: 200.266 ug/L

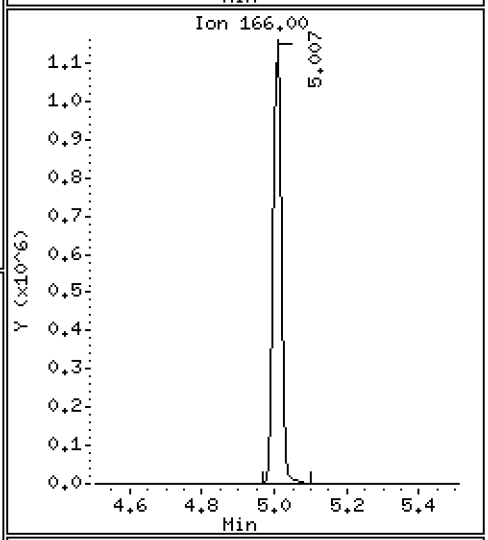


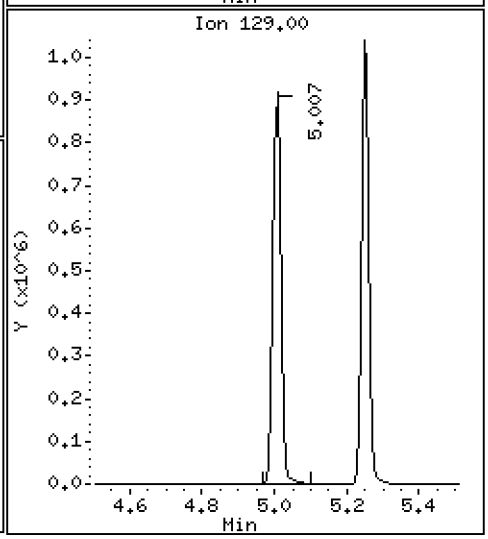












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 79

Date : 25-OCT-2016 01:36

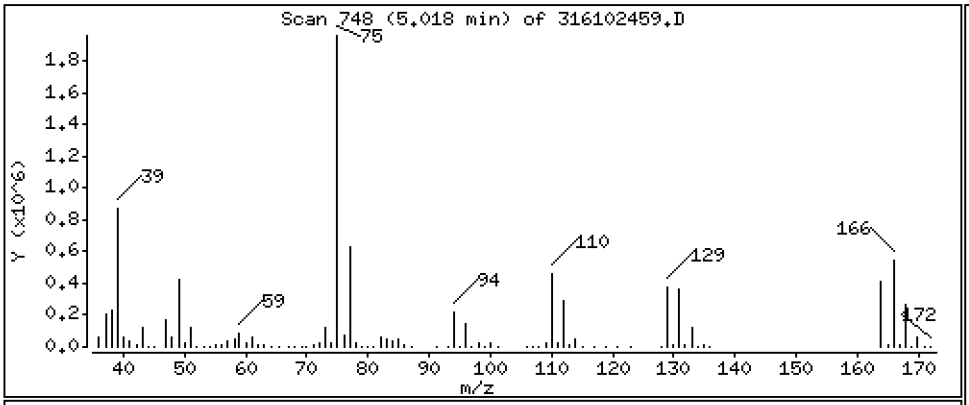
Client ID: Instrument: ms03.i

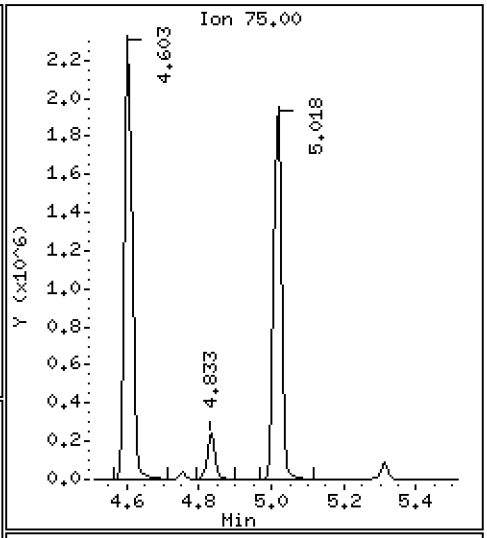
Sample Info: 1239;;1;1;6;;;

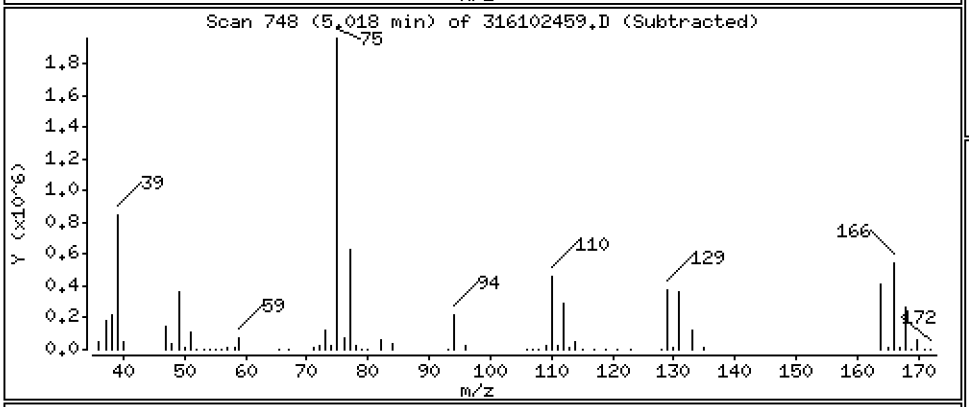
Purge Volume: 5.0 Operator: CJG

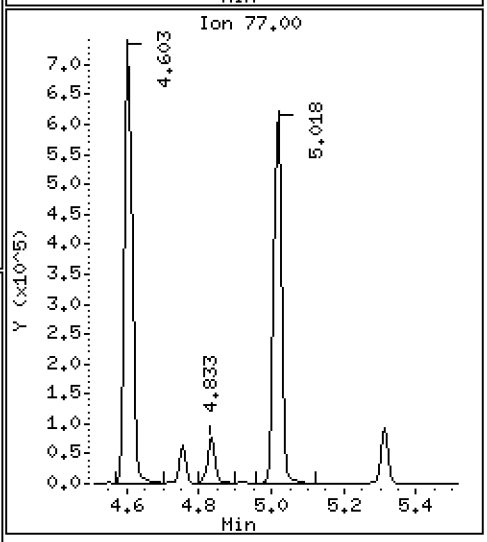
Column phase: DB-VRX Column diameter: 0.25

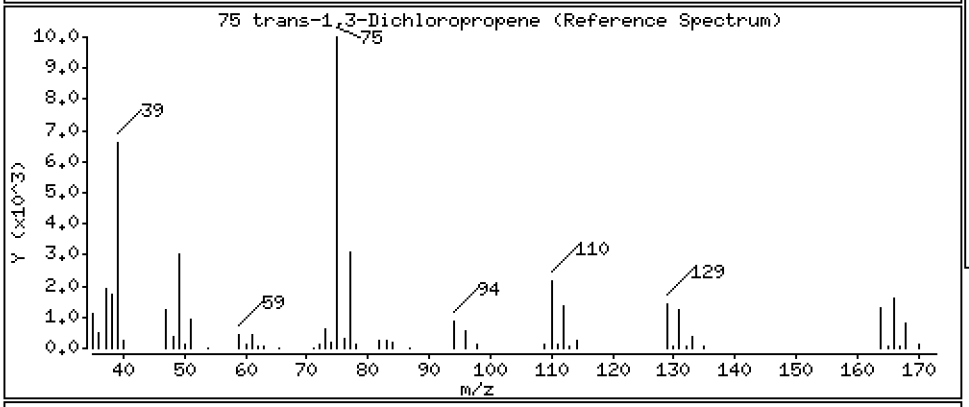
75 trans-1,3-Dichloropropene Concentration: 199.843 ug/L

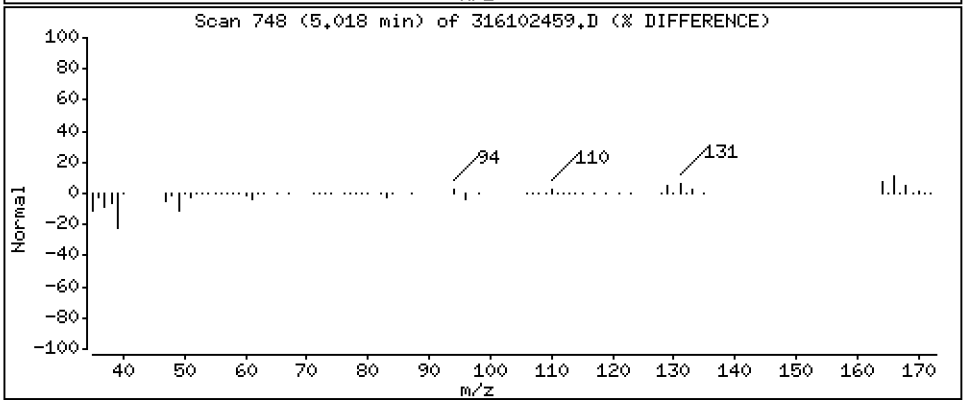












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 80

Date : 25-OCT-2016 01:36

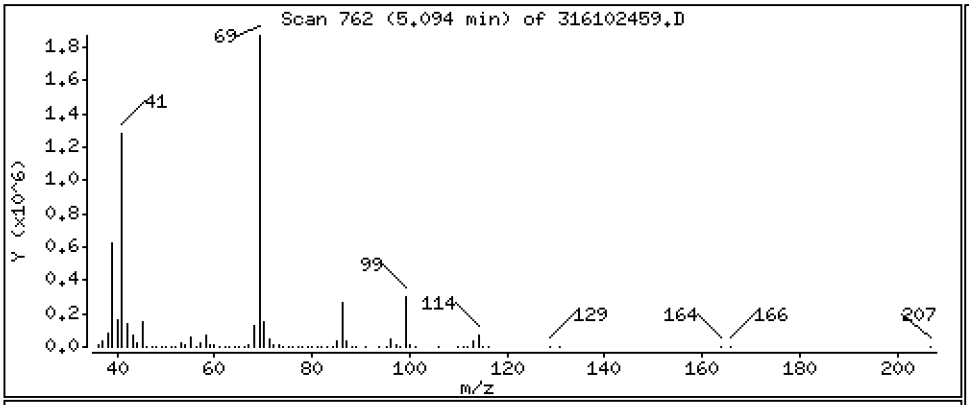
Client ID: Instrument: ms03.i

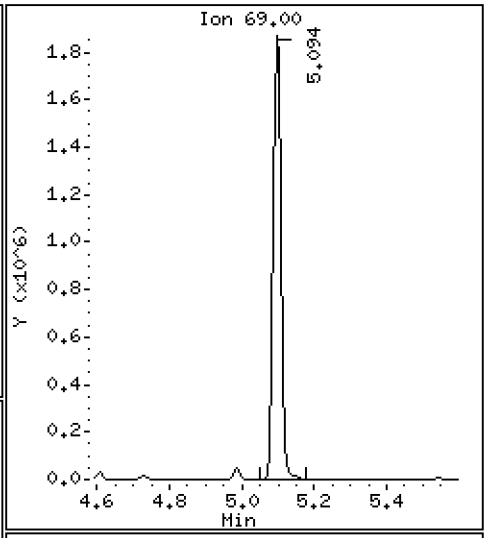
Sample Info: 1239;;1;1;6;;;

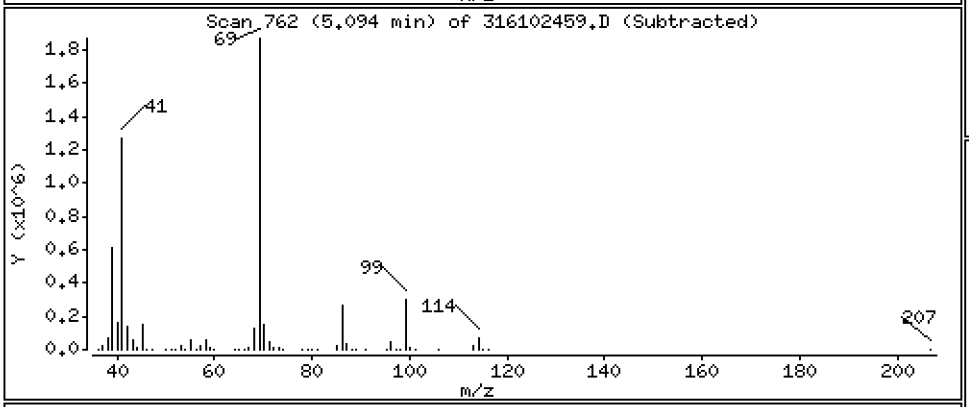
Purge Volume: 5.0 Operator: CJG

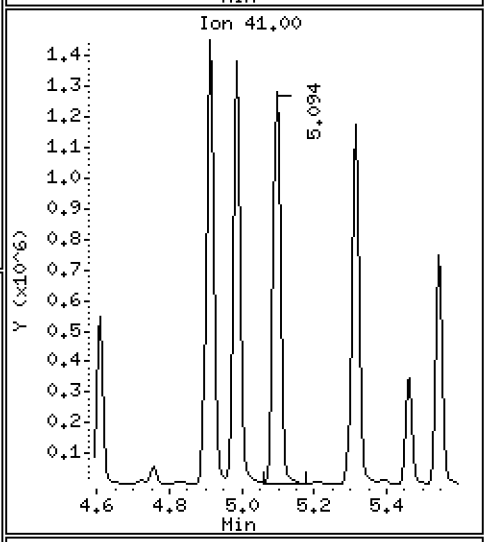
Column phase: DB-VRX Column diameter: 0.25

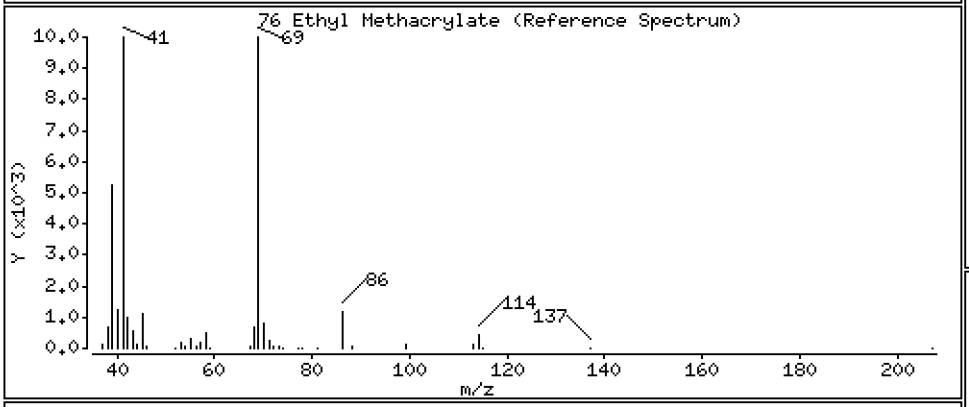
76 Ethyl Methacrylate Concentration: 199.915 ug/L

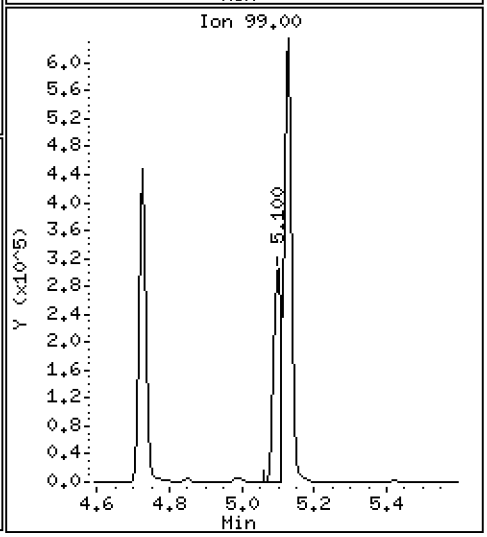


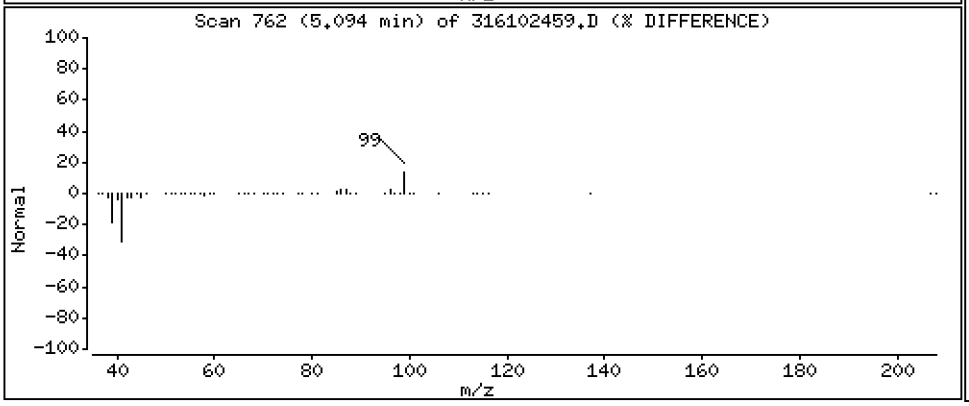












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 81

Date : 25-OCT-2016 01:36

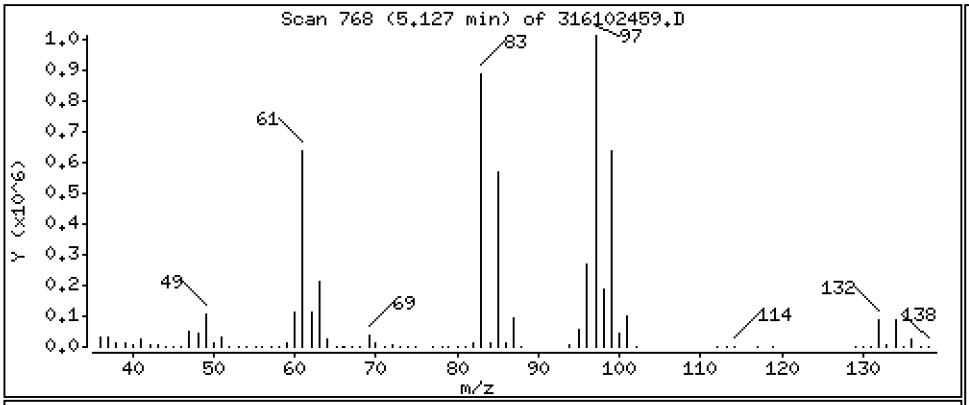
Client ID: Instrument: ms03.i

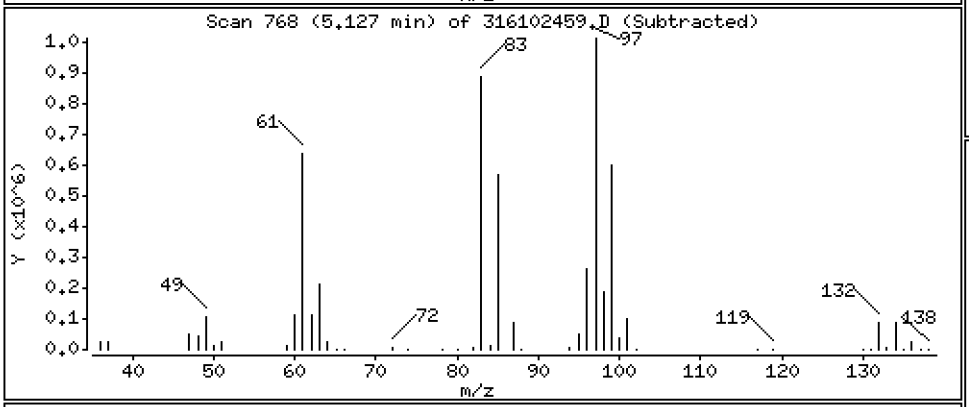
Sample Info: 1239;;1;1;6;;;

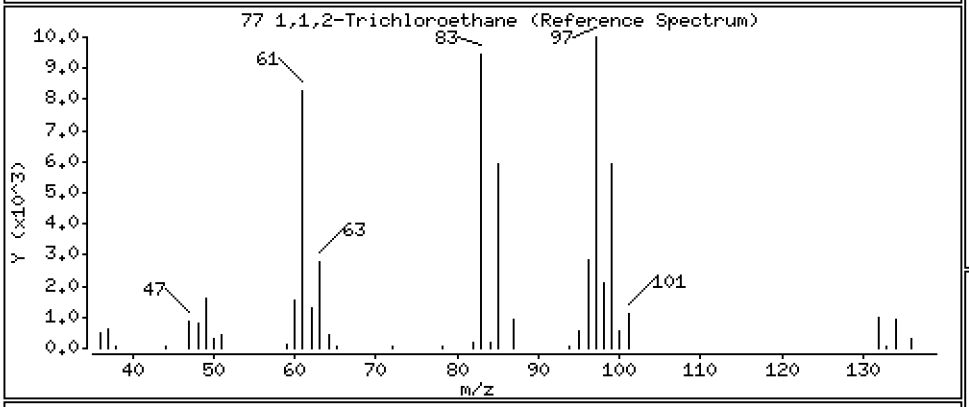
Purge Volume: 5.0 Operator: CJG

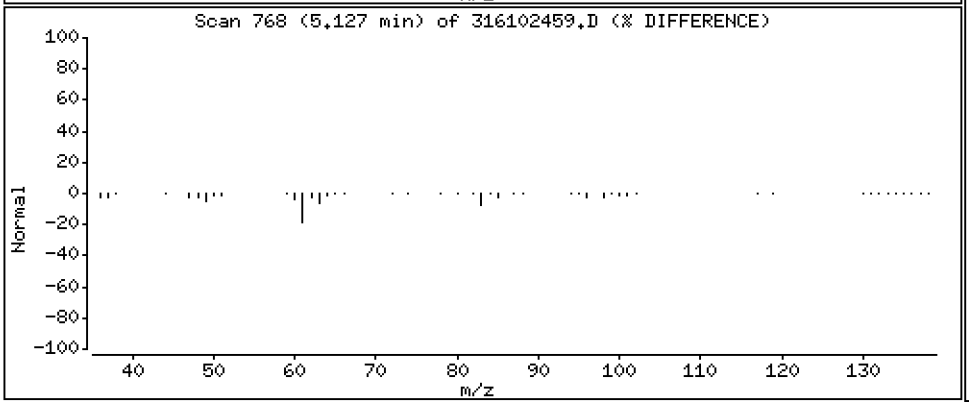
Column phase: DB-VRX Column diameter: 0.25

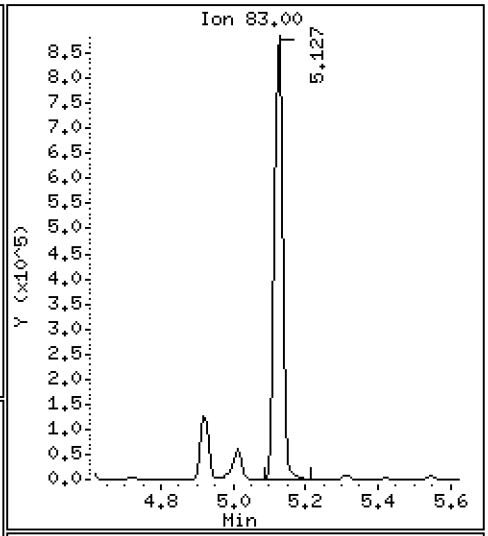
77 1,1,2-Trichloroethane Concentration: 200.122 ug/L

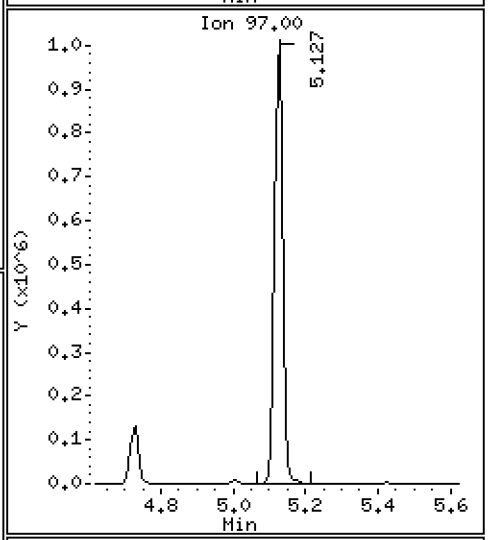


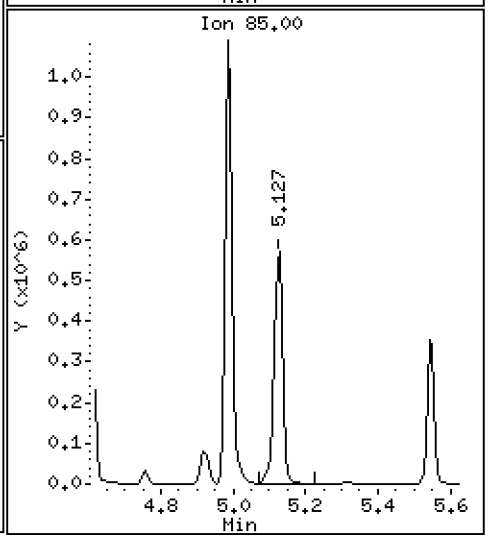












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 82

Date : 25-OCT-2016 01:36

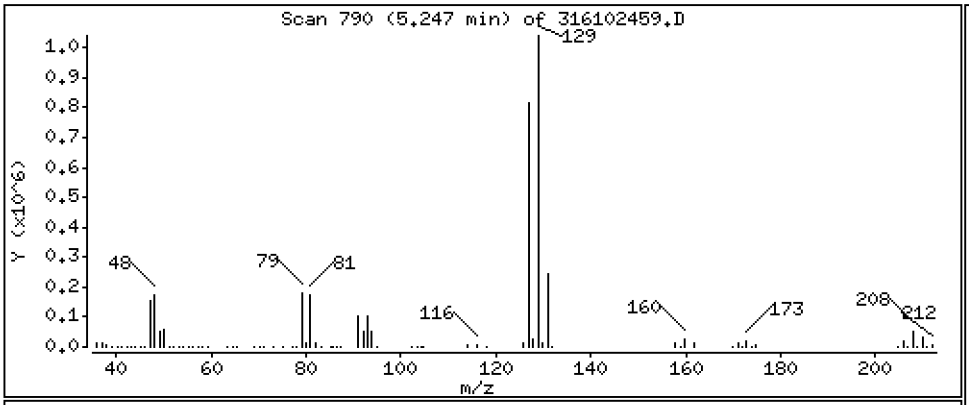
Client ID: Instrument: ms03.i

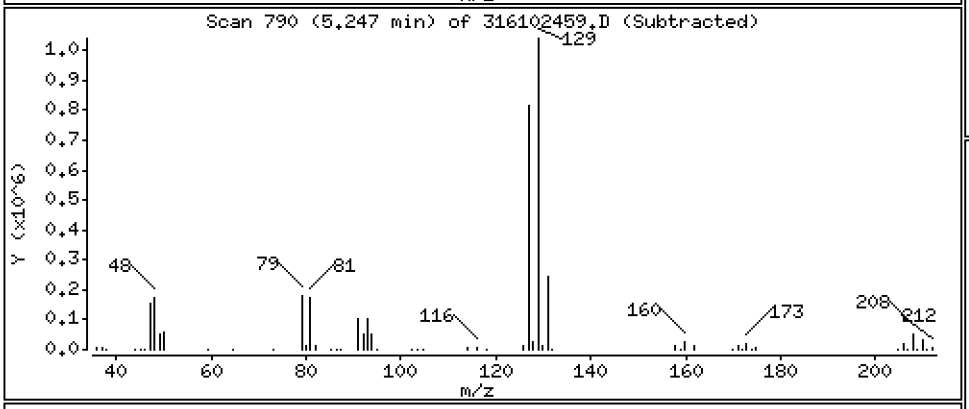
Sample Info: 1239;;1;1;6;;;

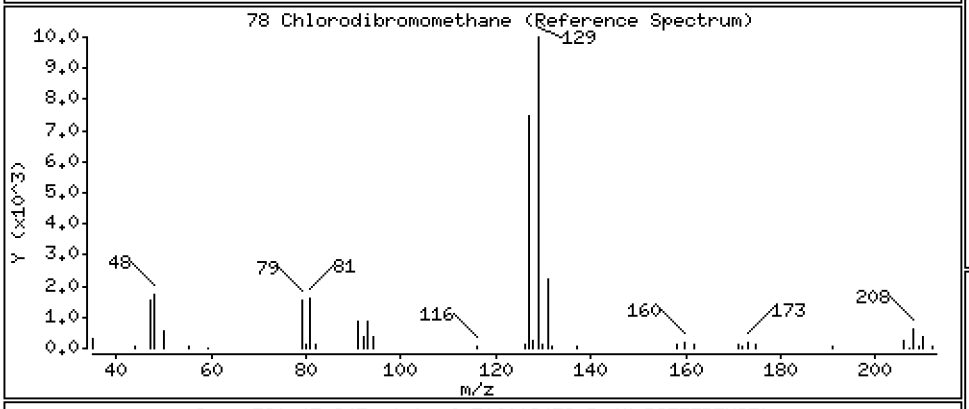
Purge Volume: 5.0 Operator: CJG

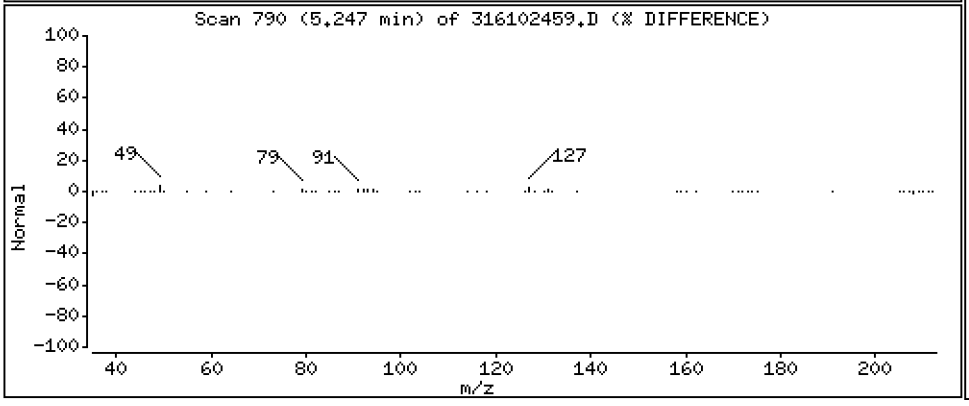
Column phase: DB-VRX Column diameter: 0.25

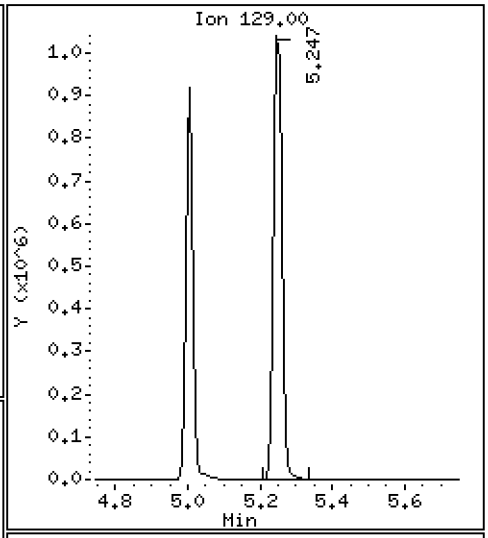
78 Chlorodibromomethane Concentration: 199.834 ug/L

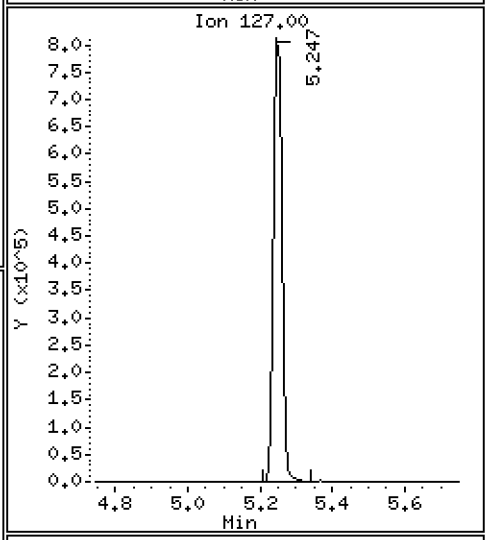


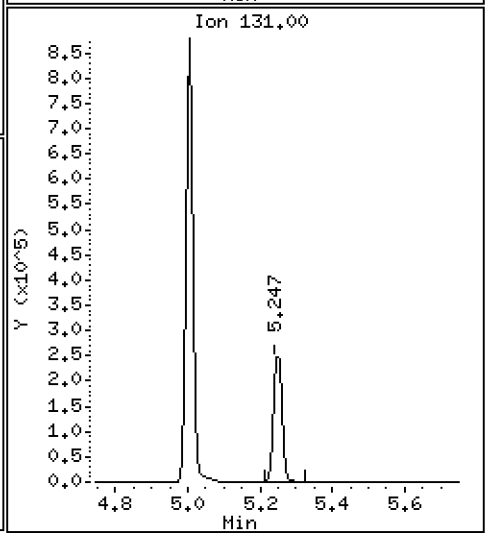












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 83

Date : 25-OCT-2016 01:36

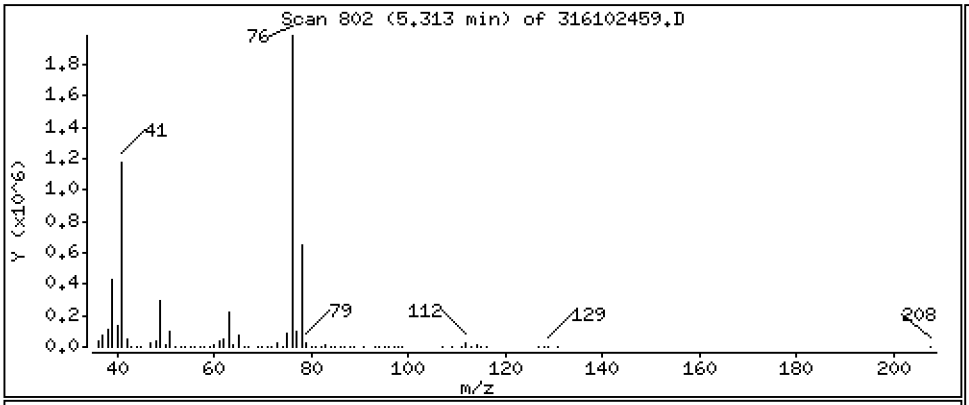
Client ID: Instrument: ms03.i

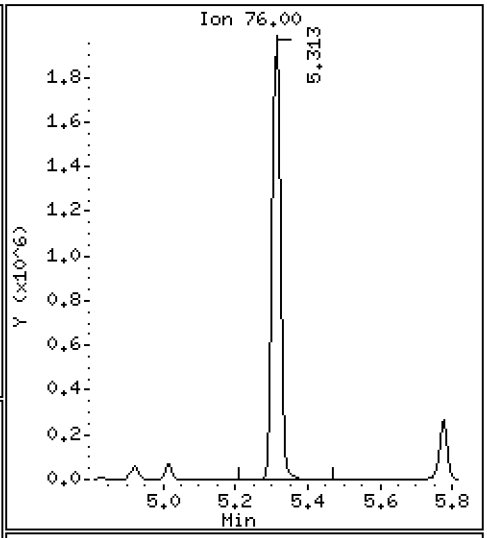
Sample Info: 1239;;1;1;6;;;

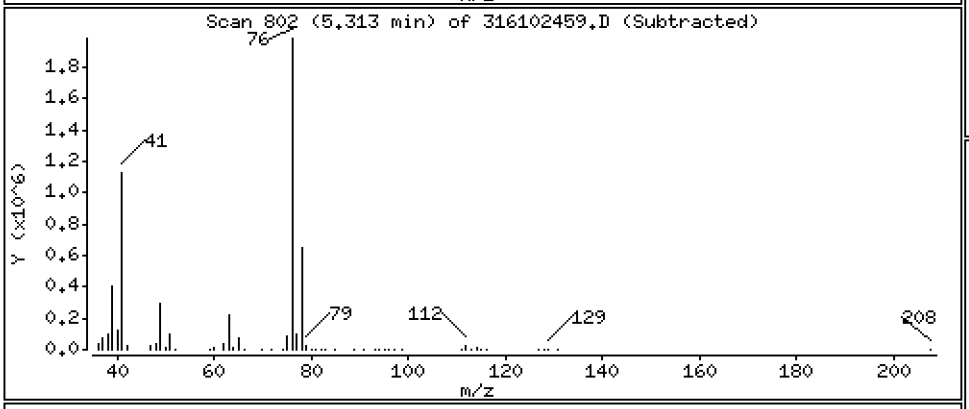
Purge Volume: 5.0 Operator: CJG

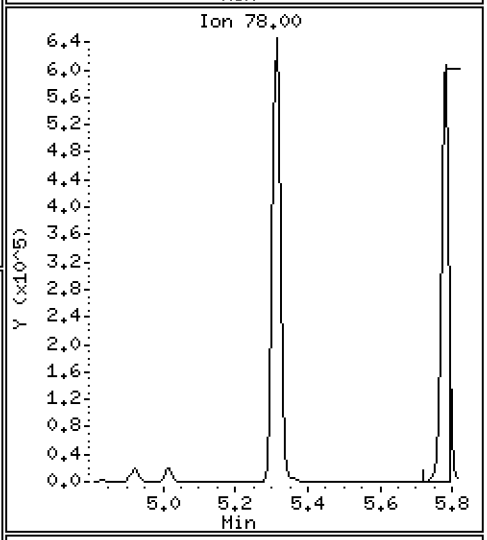
Column phase: DB-VRX Column diameter: 0.25

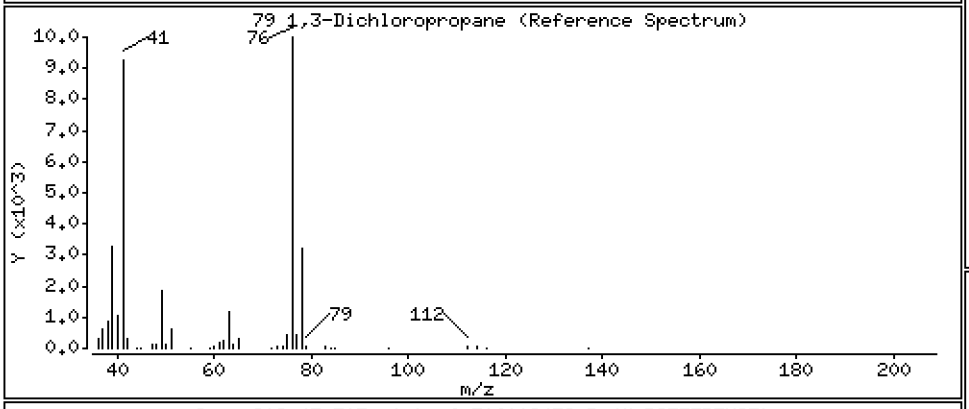
79 1,3-Dichloropropane Concentration: 200.110 ug/L

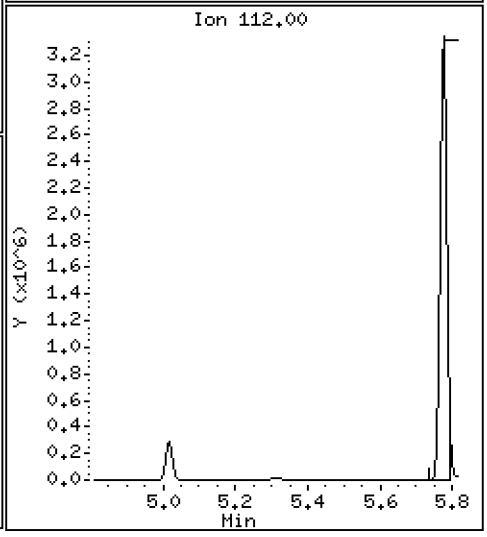


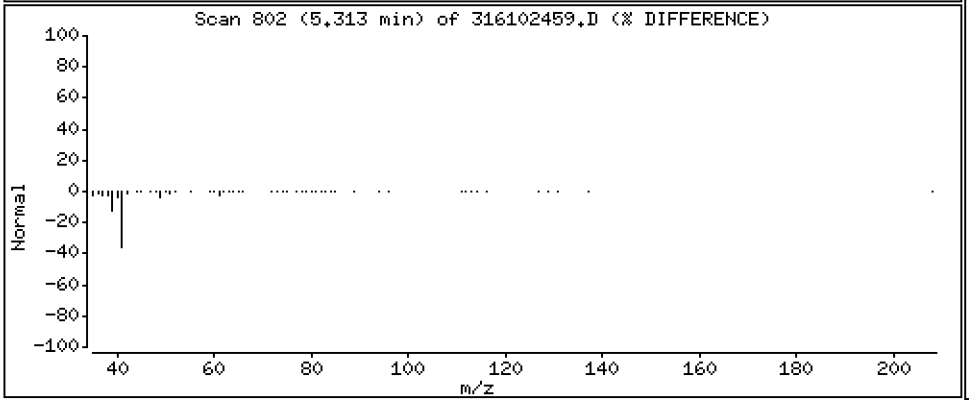












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 84

Date : 25-OCT-2016 01:36

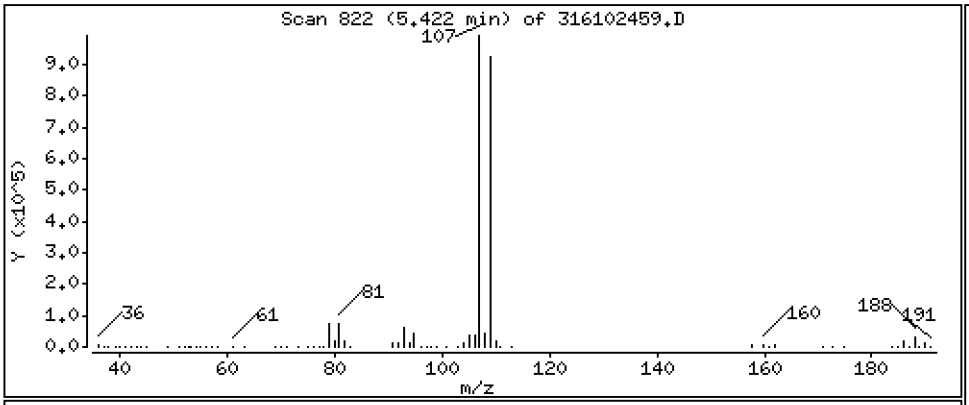
Client ID: Instrument: ms03.i

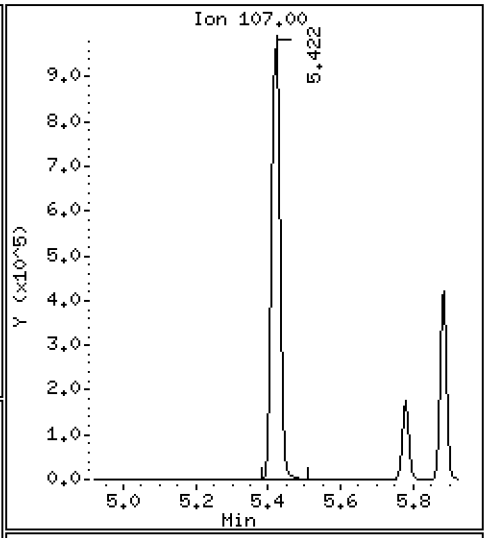
Sample Info: 1239;;1;1;6;;;

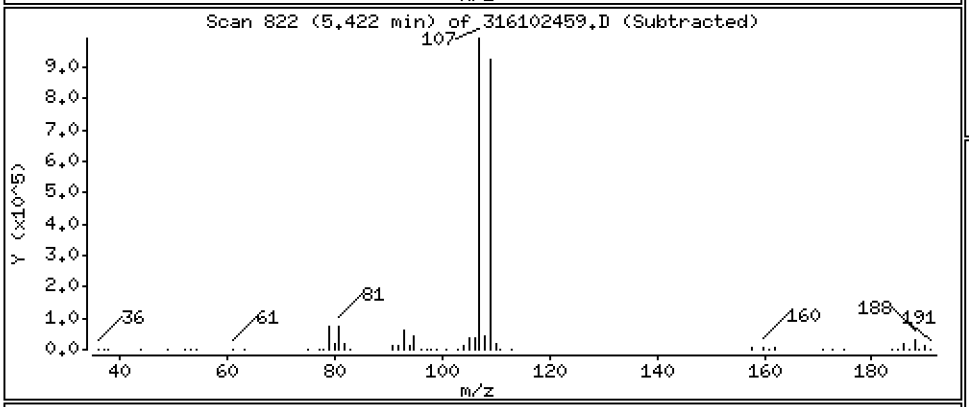
Purge Volume: 5.0 Operator: CJG

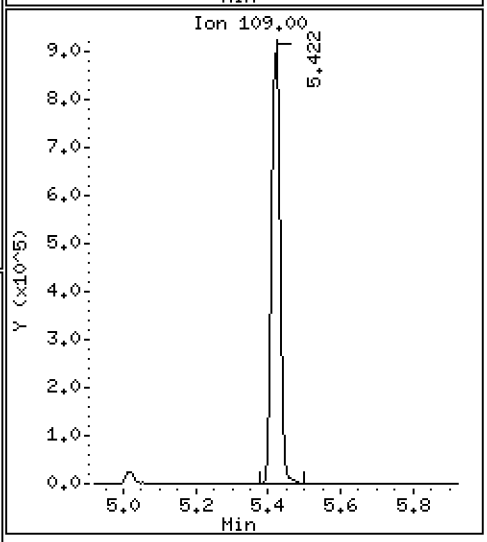
Column phase: DB-VRX Column diameter: 0.25

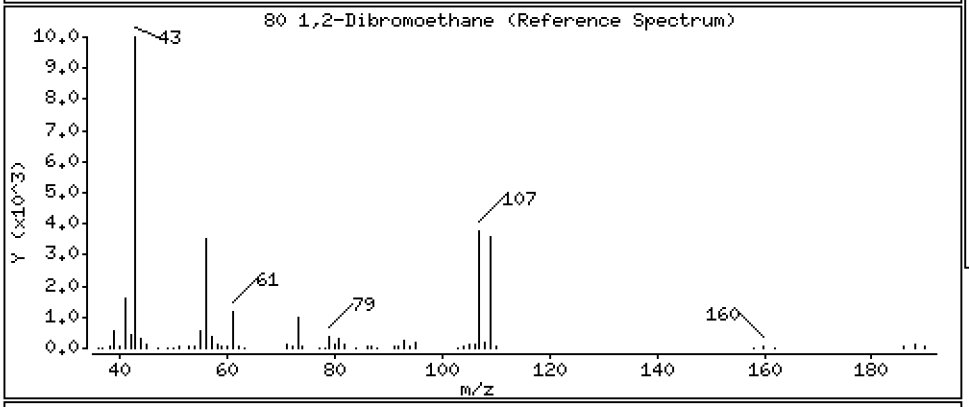
80 1,2-Dibromoethane Concentration: 200.001 ug/L

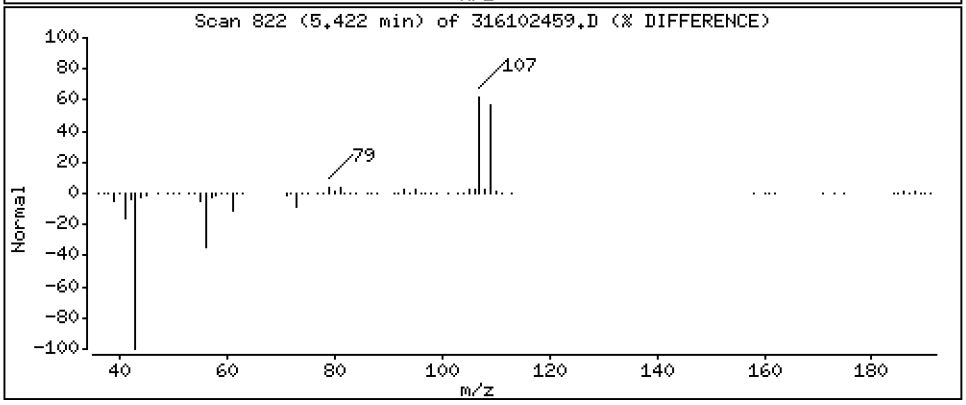












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 85

Date : 25-OCT-2016 01:36

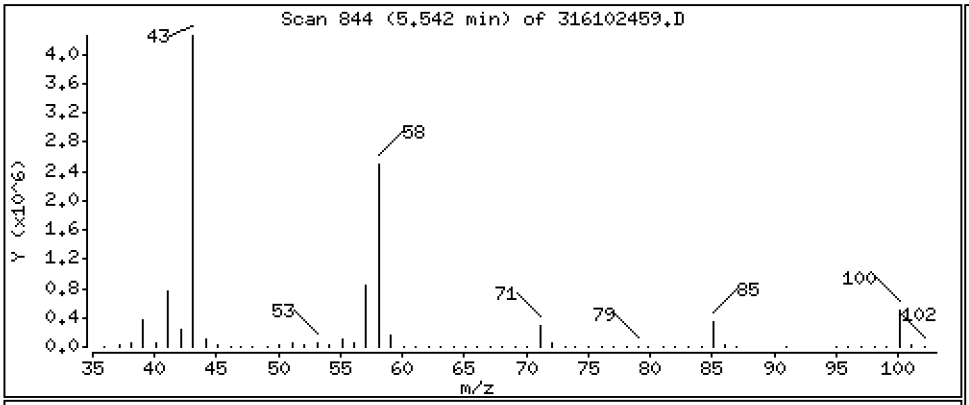
Client ID: Instrument: ms03.i

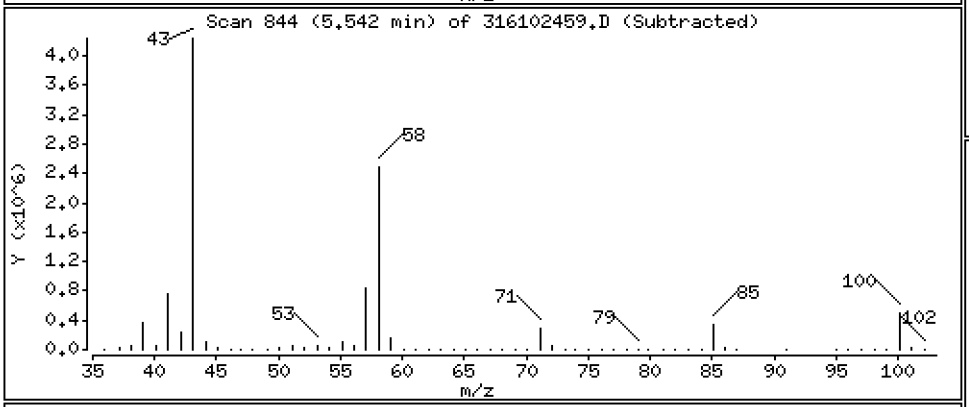
Sample Info: 1239;;1;1;6;;;

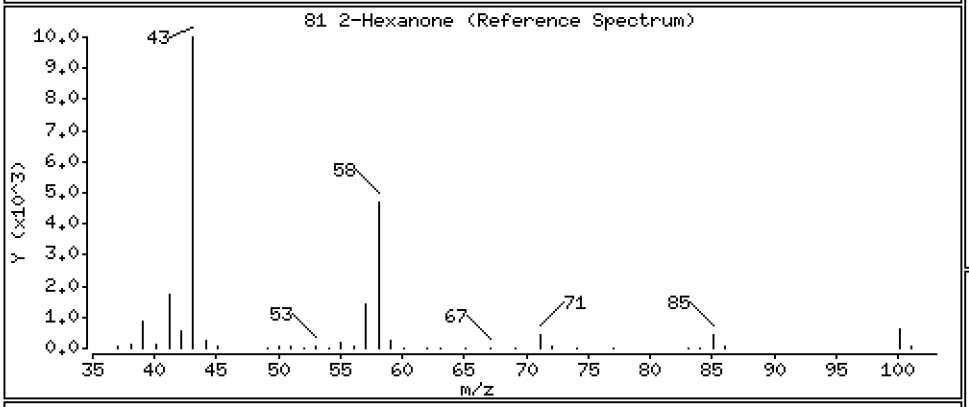
Purge Volume: 5.0 Operator: CJG

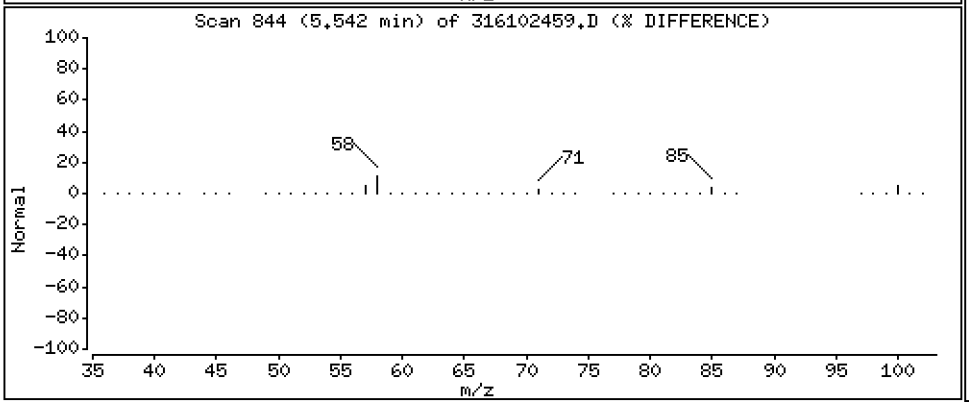
Column phase: DB-VRX Column diameter: 0.25

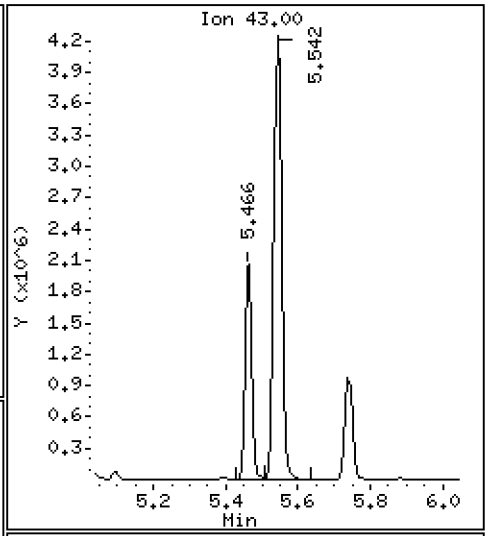
81 2-Hexanone Concentration: 1000.08 ug/L

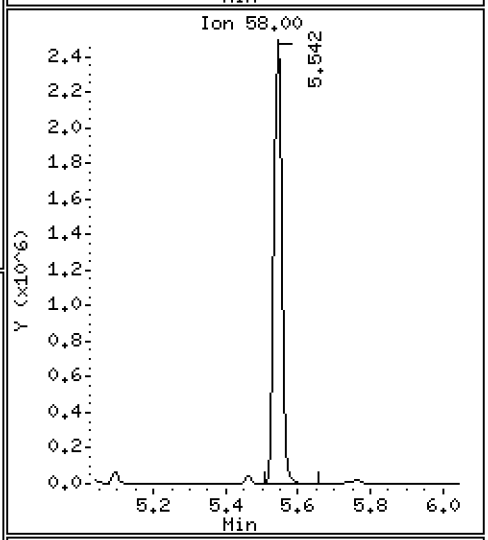


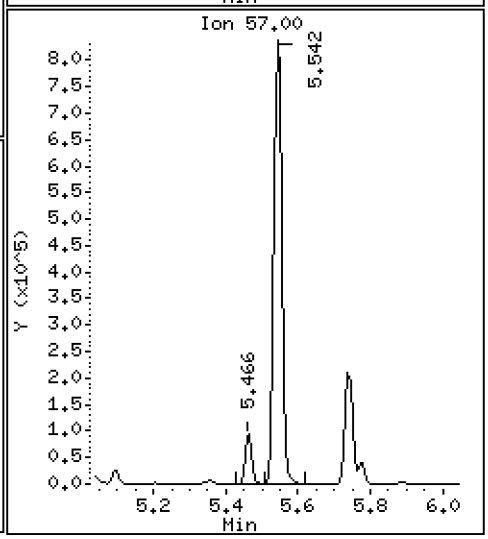












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 86

Date : 25-OCT-2016 01:36

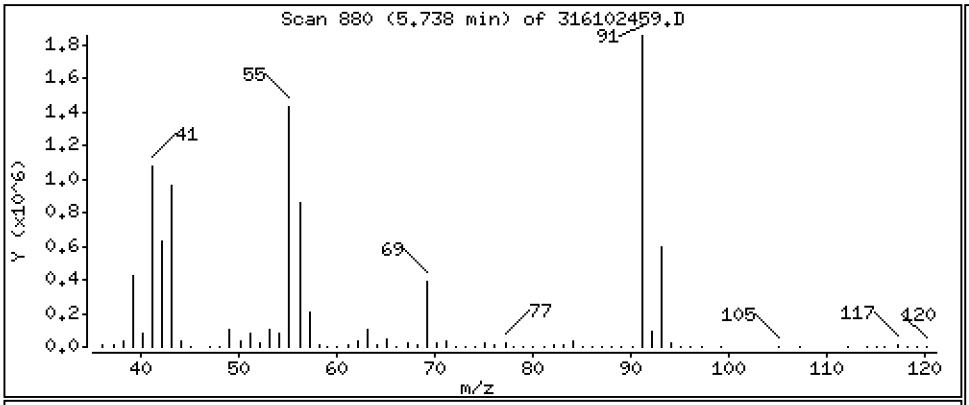
Client ID: Instrument: ms03.i

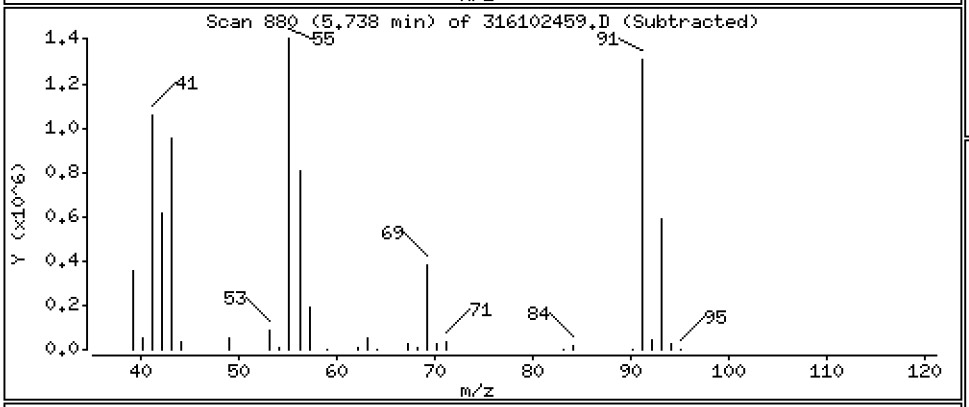
Sample Info: 1239;;1;1;6;;;

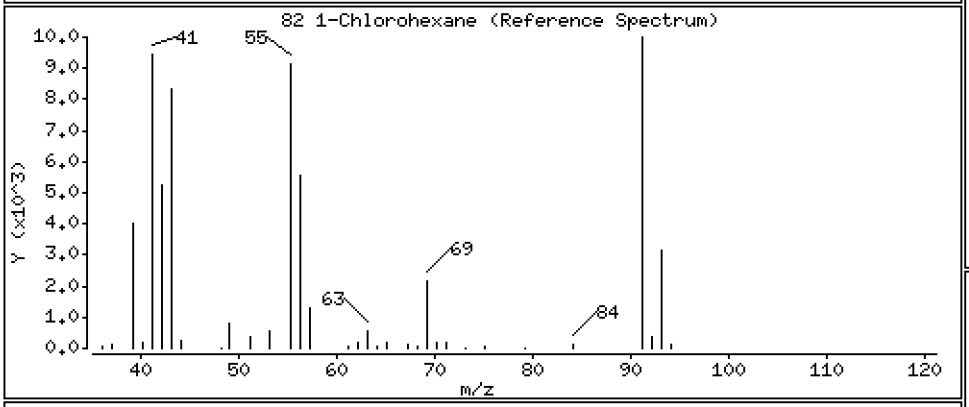
Purge Volume: 5.0 Operator: CJG

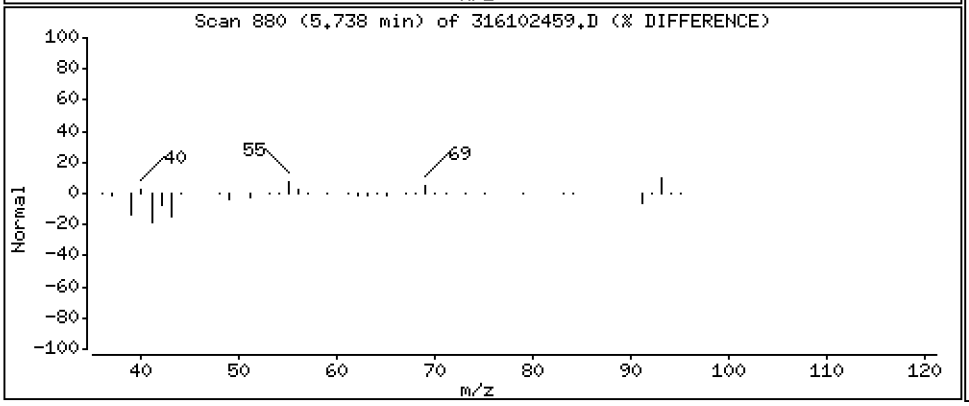
Column phase: DB-VRX Column diameter: 0.25

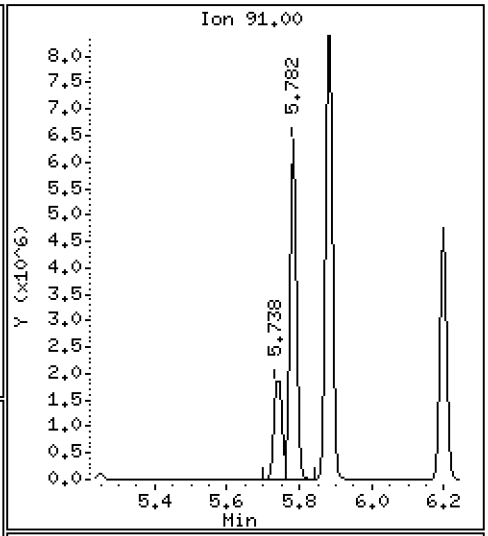
82 1-Chlorohexane Concentration: 199.762 ug/L

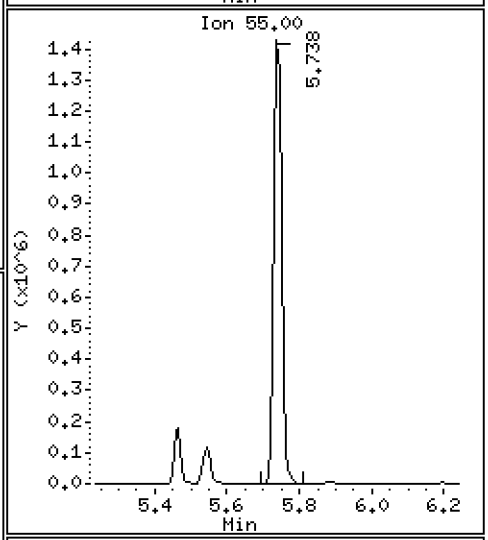


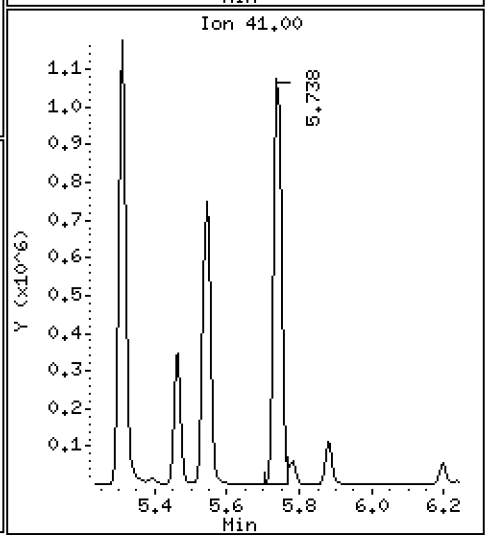












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 87

Date : 25-OCT-2016 01:36

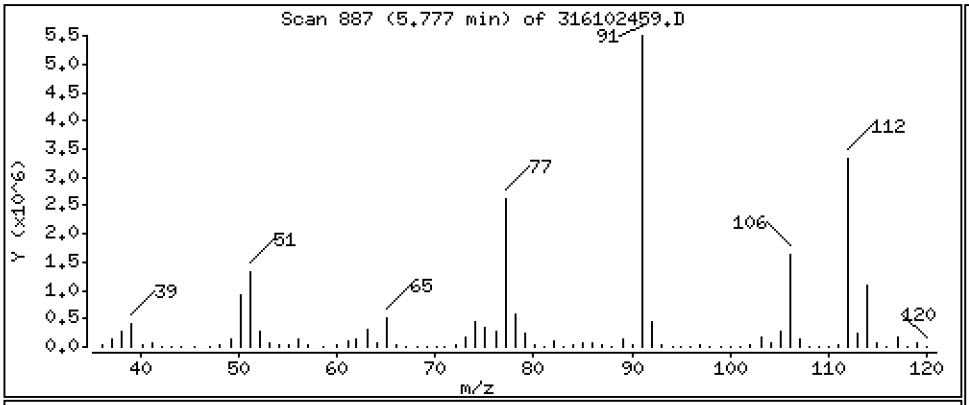
Client ID: Instrument: ms03.i

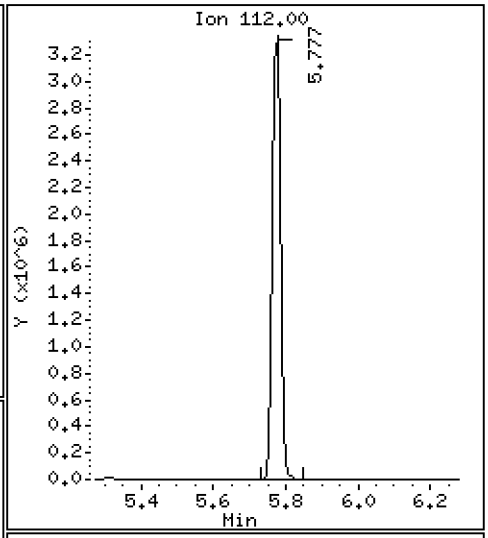
Sample Info: 1239;;1;1;6;;;

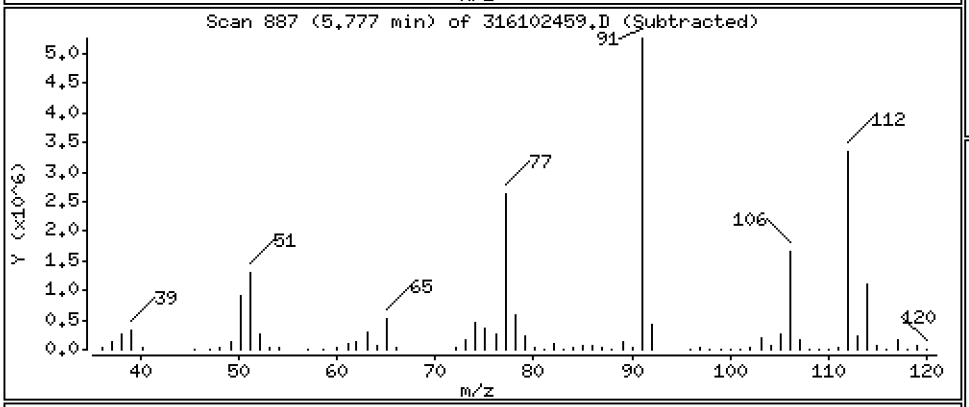
Purge Volume: 5.0 Operator: CJG

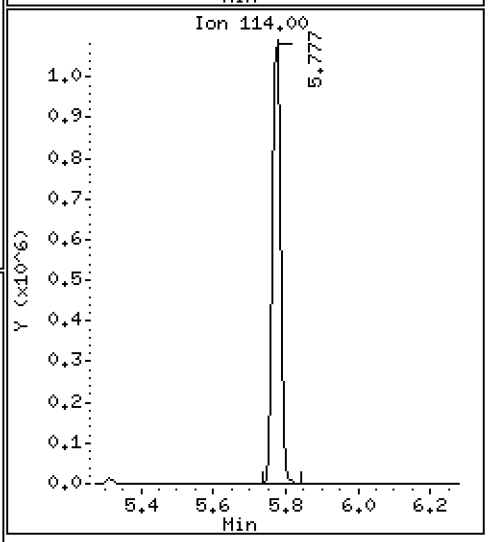
Column phase: DB-VRX Column diameter: 0.25

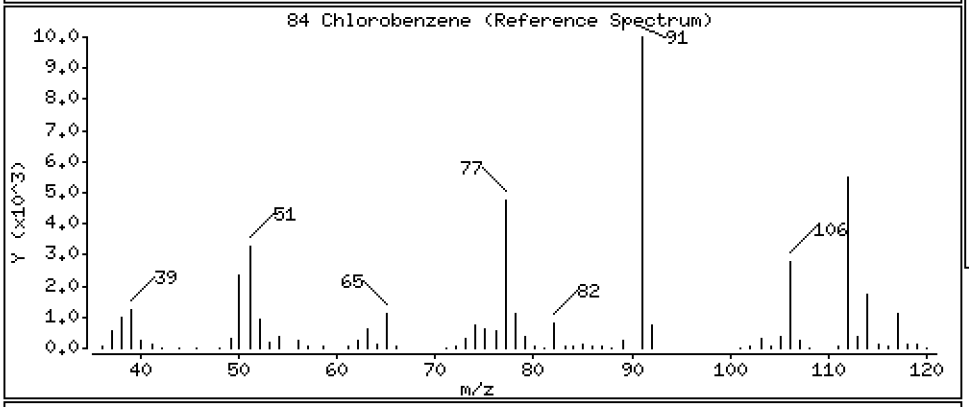
84 Chlorobenzene Concentration: 200.088 ug/L

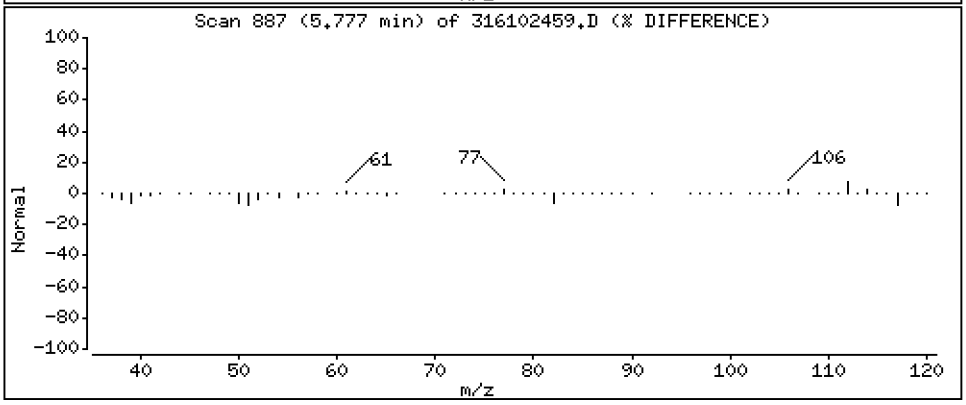












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 88

Date : 25-OCT-2016 01:36

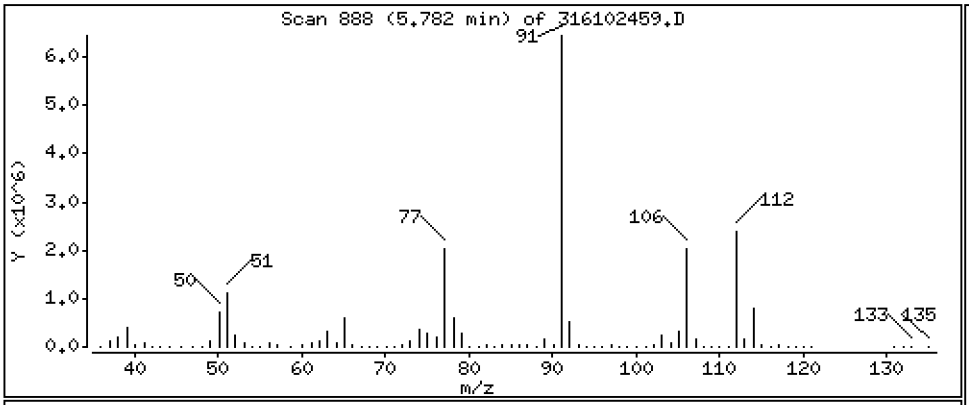
Client ID: Instrument: ms03.i

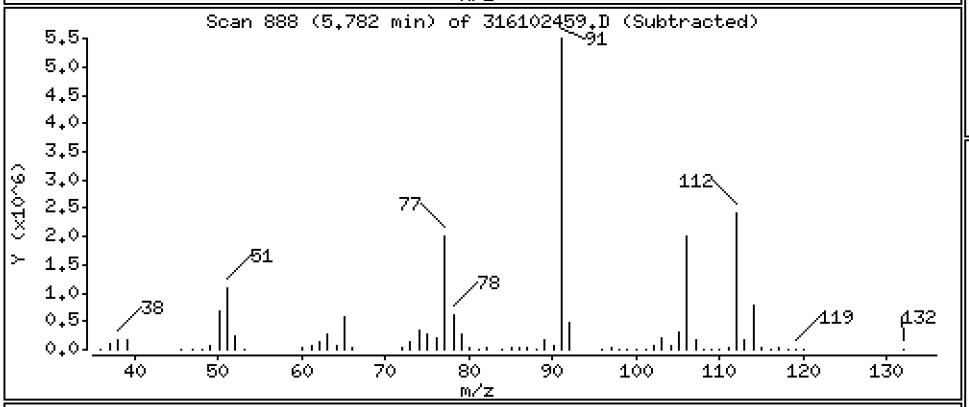
Sample Info: 1239;;1;1;6;;;

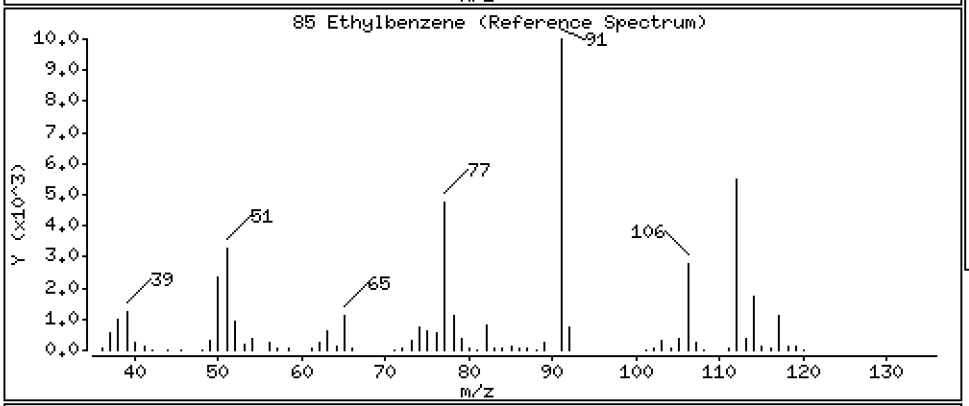
Purge Volume: 5.0 Operator: CJG

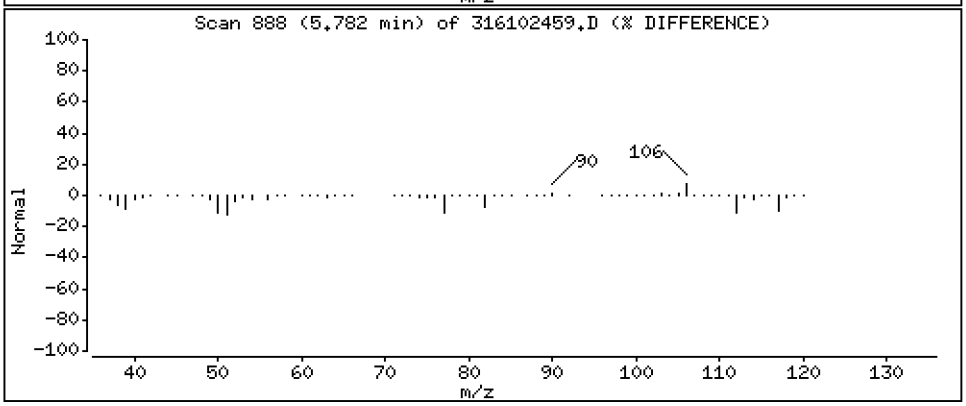
Column phase: DB-VRX Column diameter: 0.25

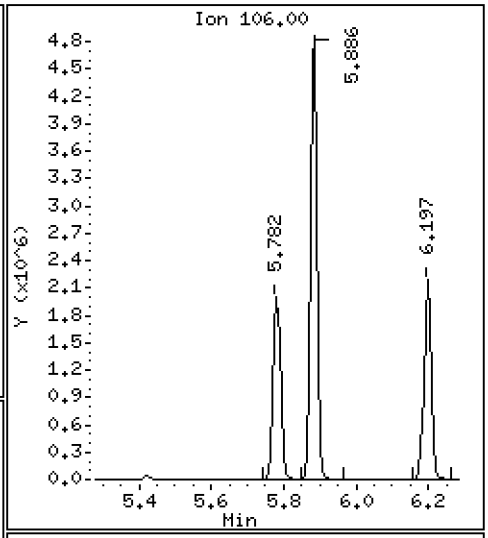
85 Ethylbenzene Concentration: 200.070 ug/L

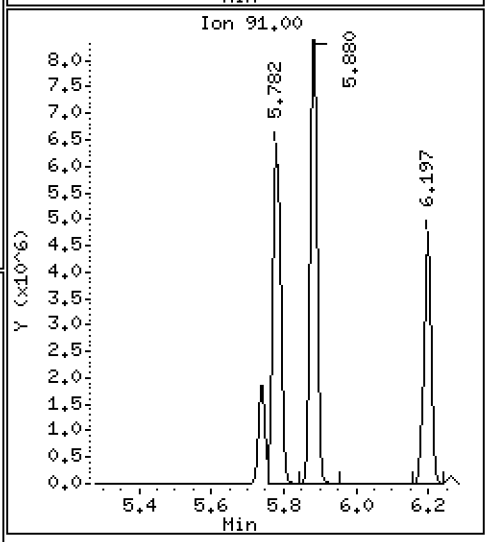












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 89

Date : 25-OCT-2016 01:36

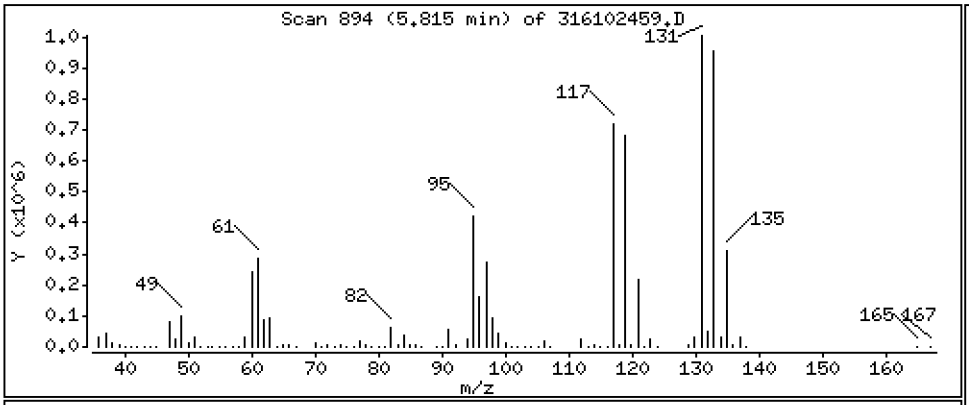
Client ID: Instrument: ms03.i

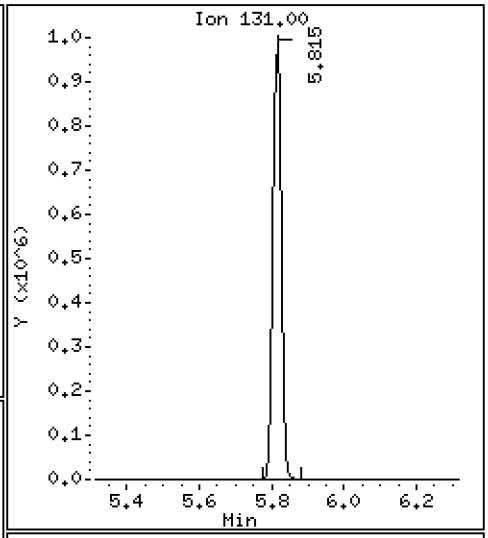
Sample Info: 1239;;1;1;6;;;

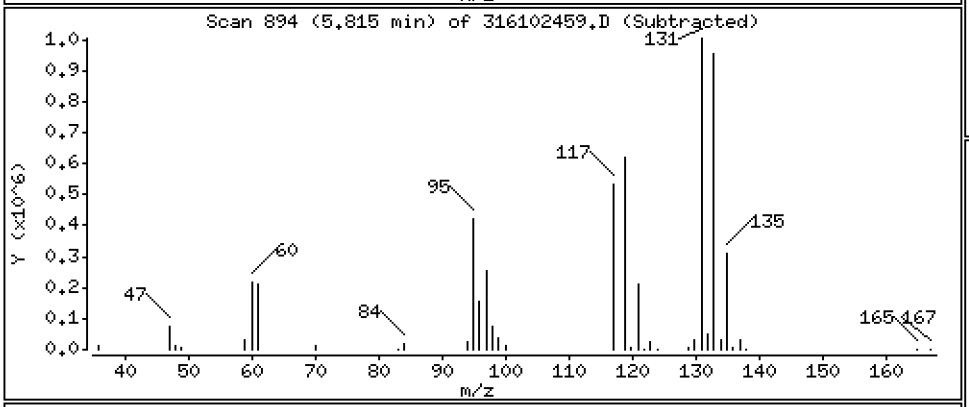
Purge Volume: 5.0 Operator: CJG

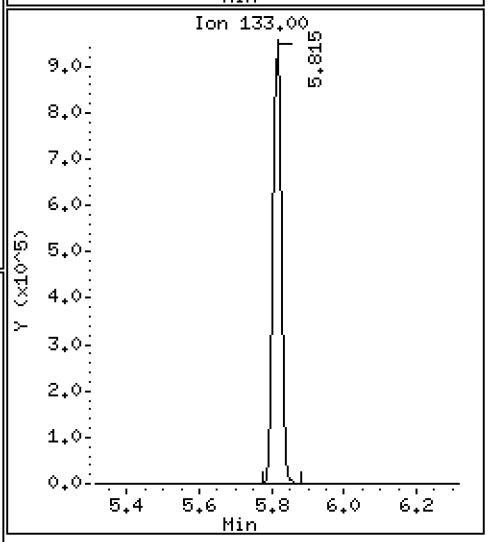
Column phase: DB-VRX Column diameter: 0.25

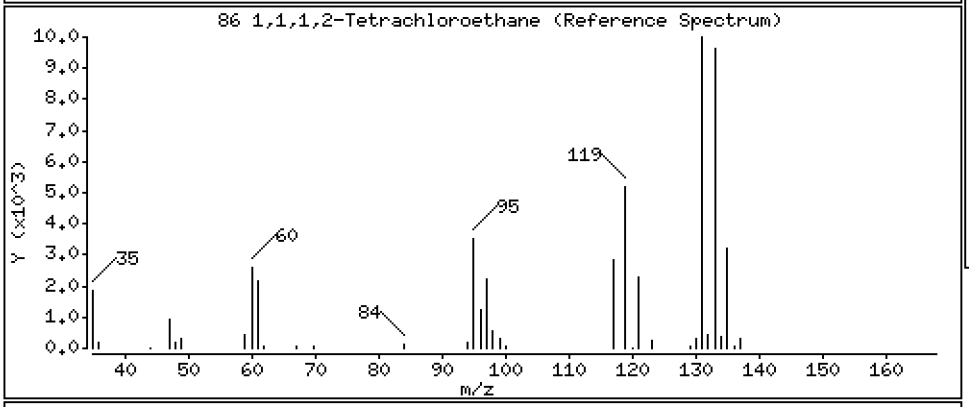
86 1,1,1,2-Tetrachloroethane Concentration: 199.950 ug/L

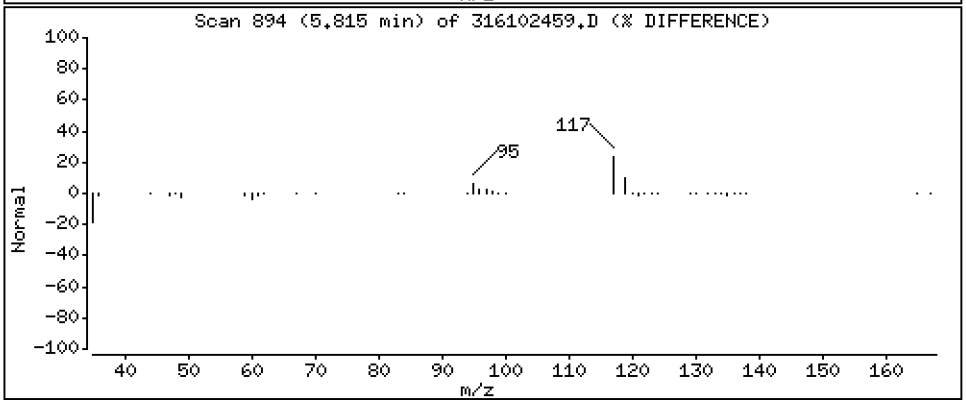












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 90

Date : 25-OCT-2016 01:36

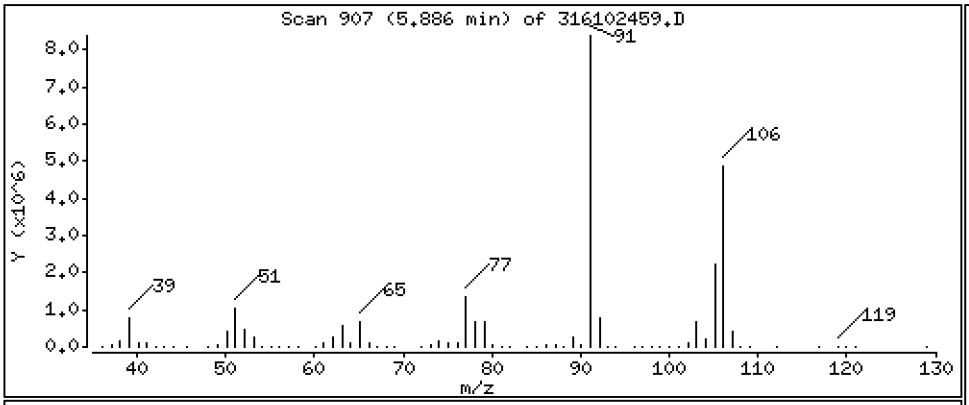
Client ID: Instrument: ms03.i

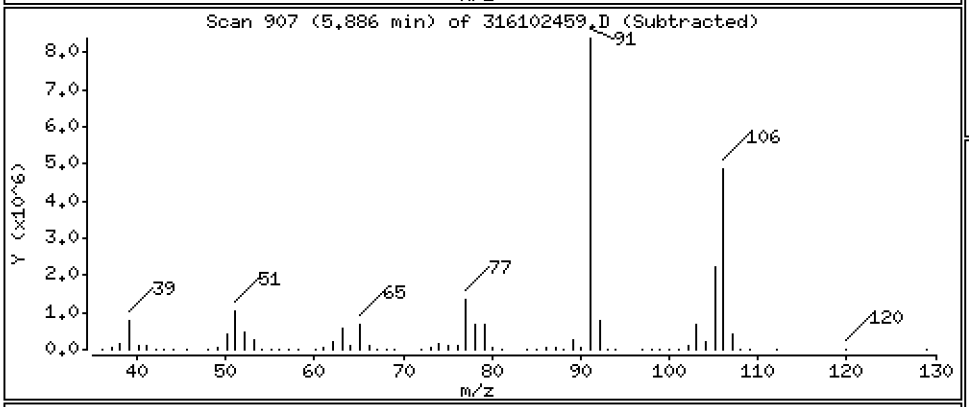
Sample Info: 1239;;1;1;6;;;

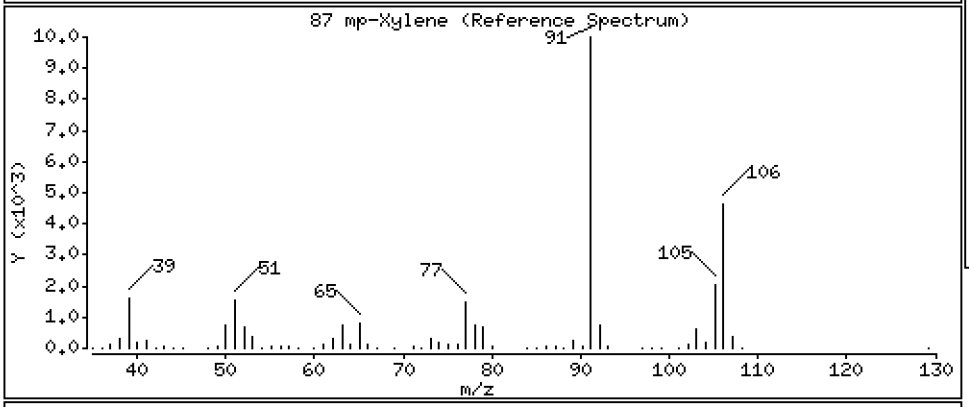
Purge Volume: 5.0 Operator: CJG

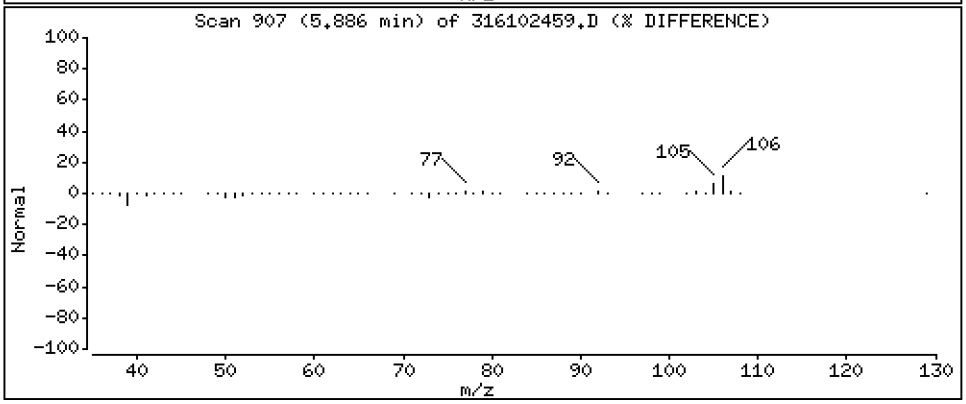
Column phase: DB-VRX Column diameter: 0.25

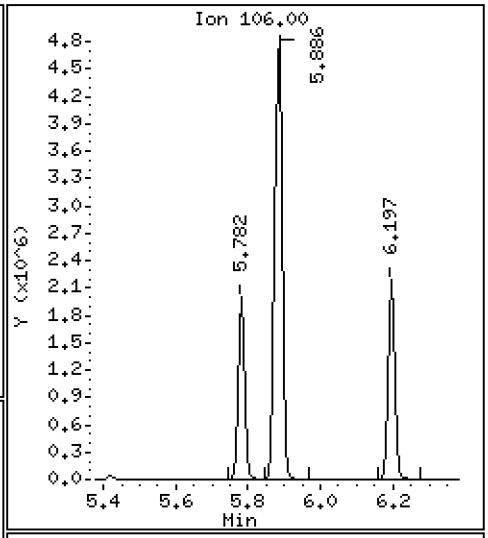
87 mp-Xylene Concentration: 400.106 ug/L

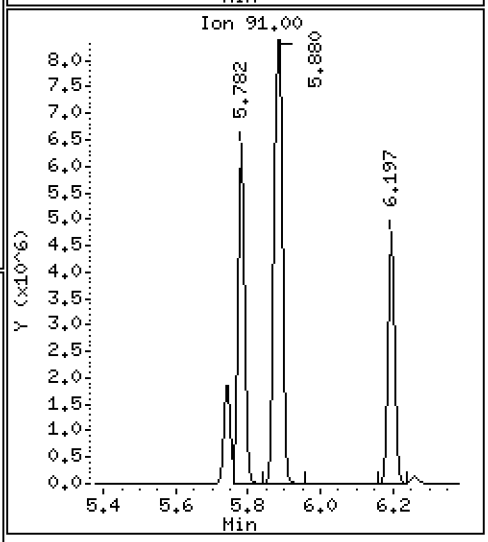












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 91

Date : 25-OCT-2016 01:36

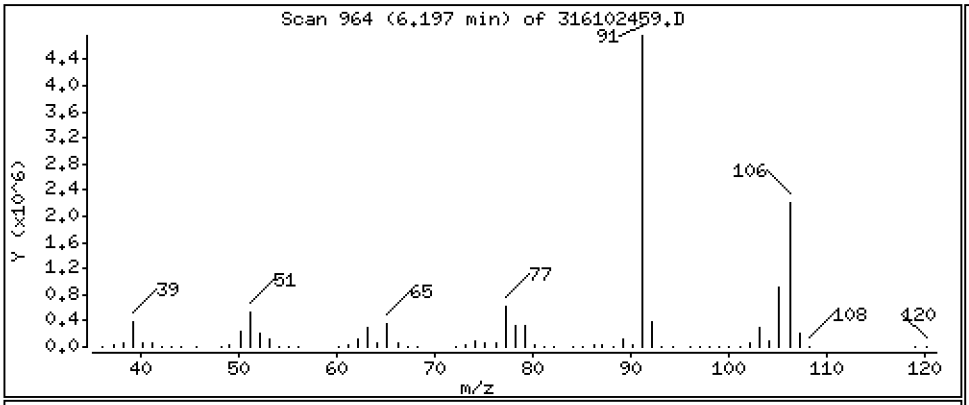
Client ID: Instrument: ms03.i

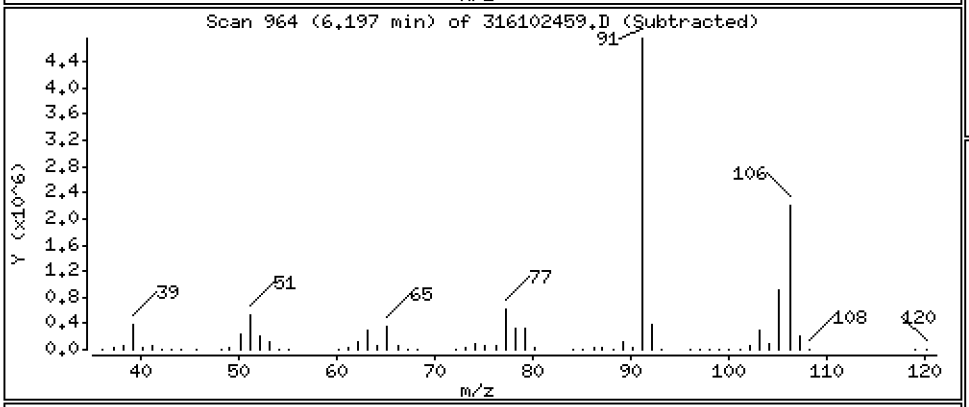
Sample Info: 1239;;1;1;6;;;

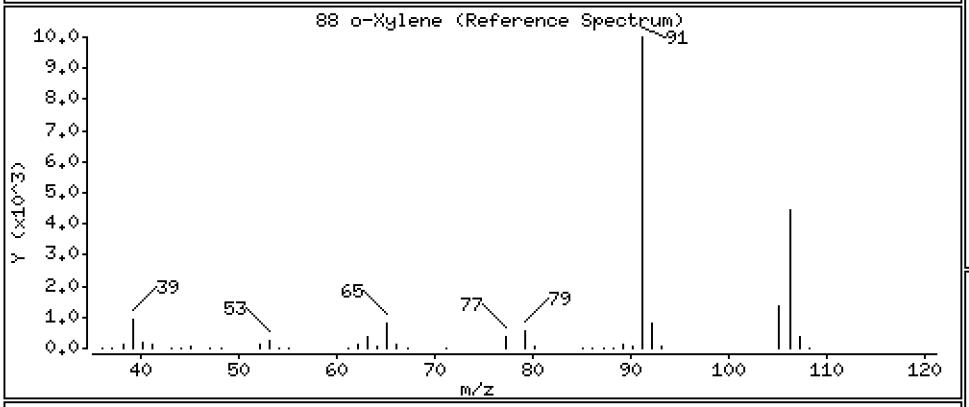
Purge Volume: 5.0 Operator: CJG

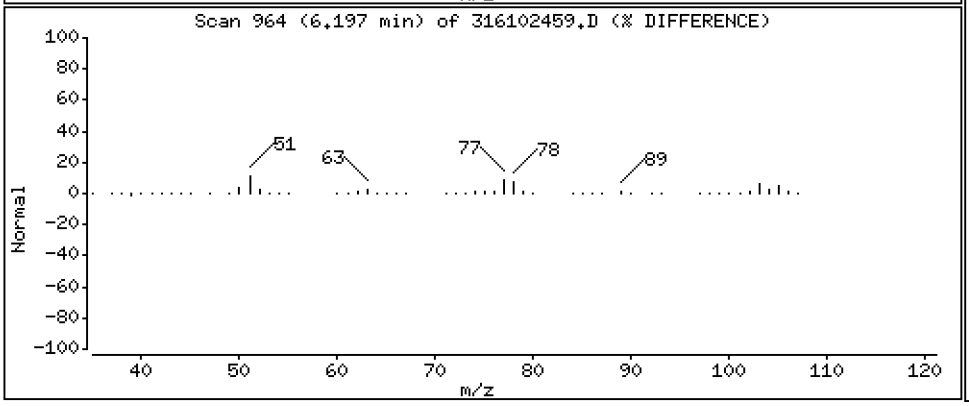
Column phase: DB-VRX Column diameter: 0.25

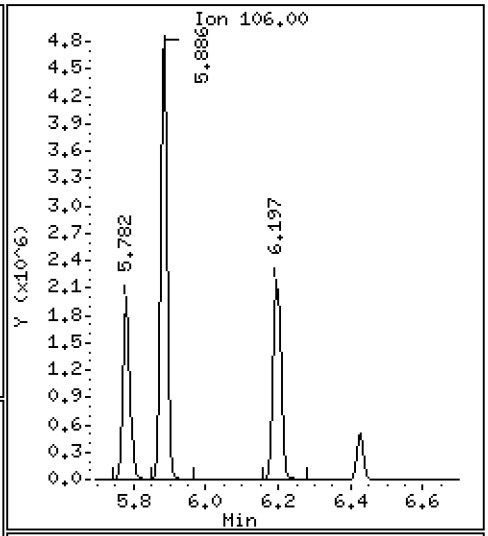
88 o-Xylene Concentration: 199.876 ug/L

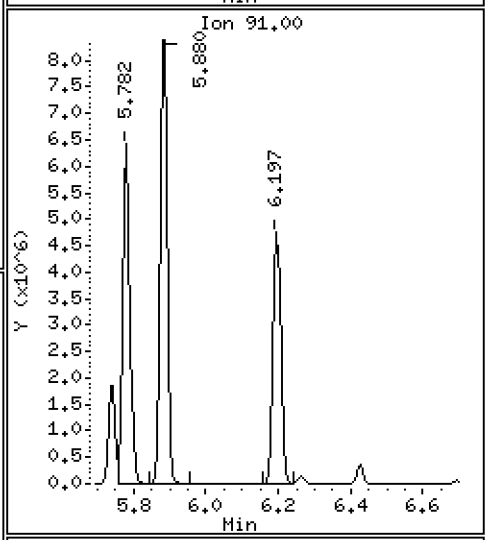


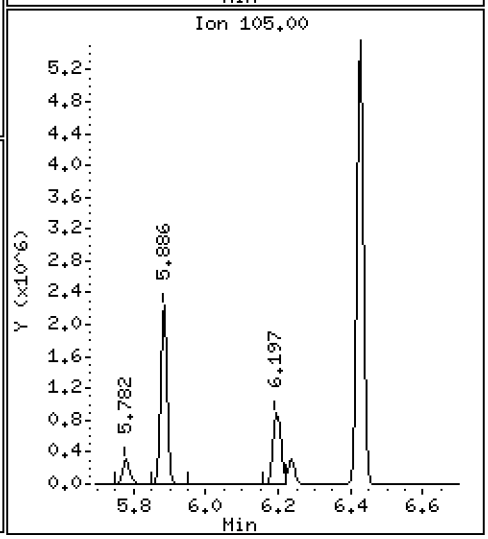












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 92

Date : 25-OCT-2016 01:36

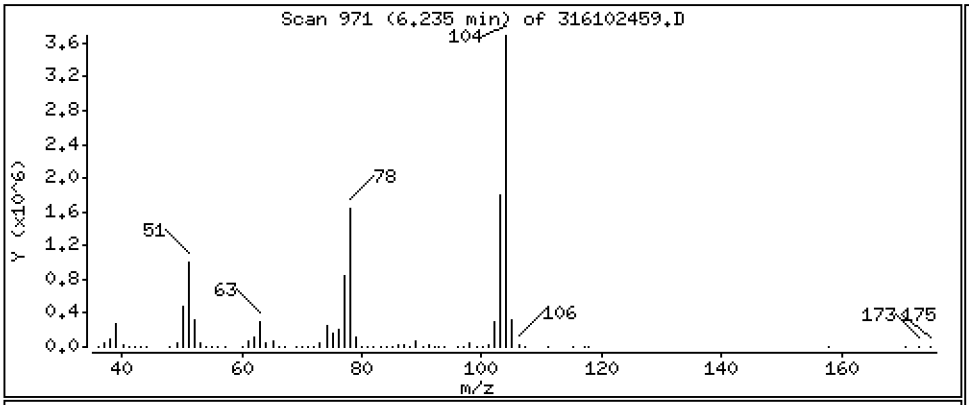
Client ID: Instrument: ms03.i

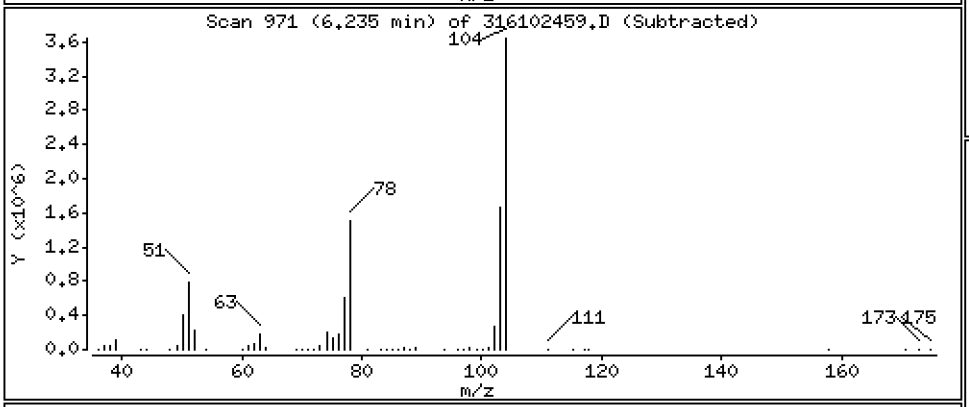
Sample Info: 1239;;1;1;6;;;

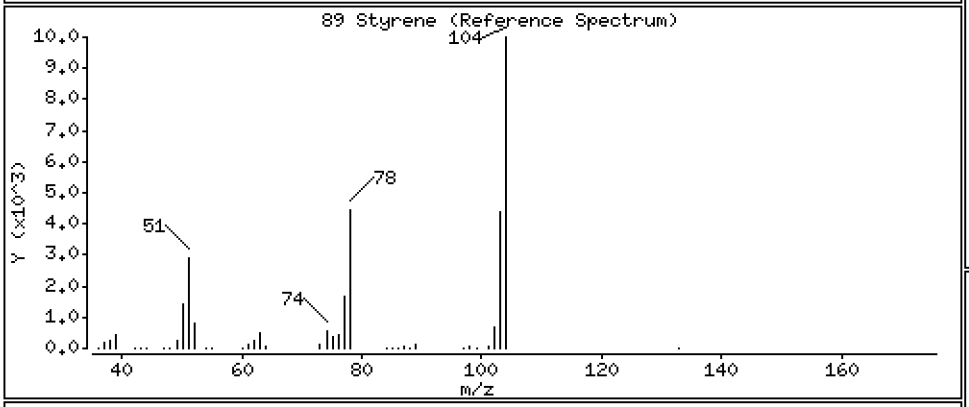
Purge Volume: 5.0 Operator: CJG

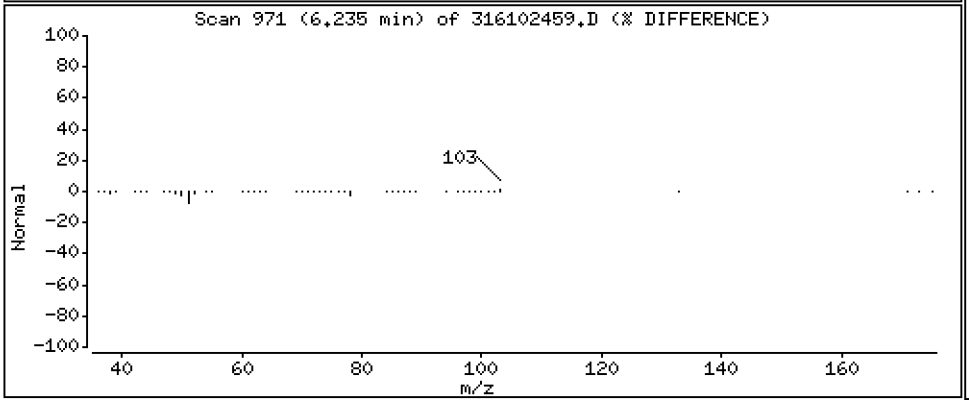
Column phase: DB-VRX Column diameter: 0.25

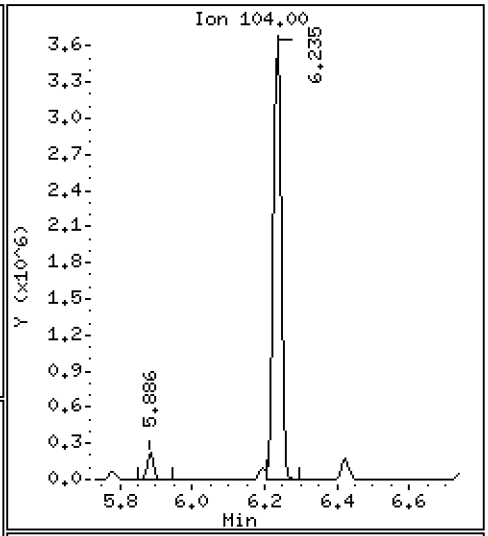
89 Styrene Concentration: 199.890 ug/L

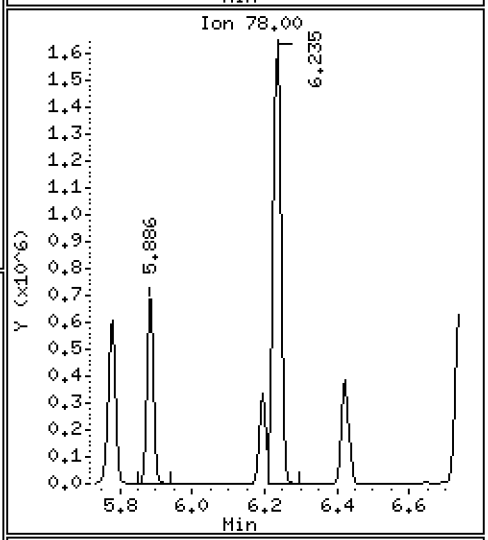


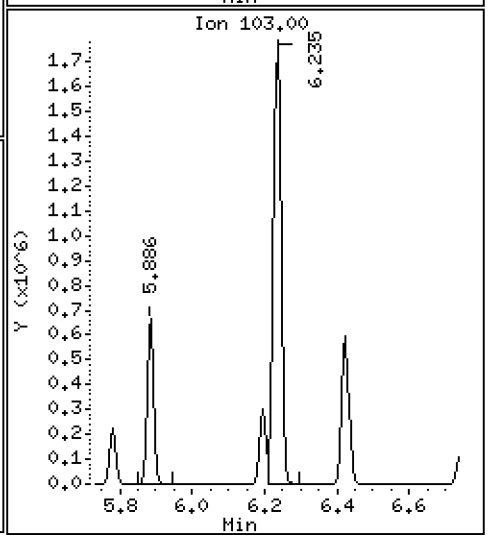












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 93

Date : 25-OCT-2016 01:36

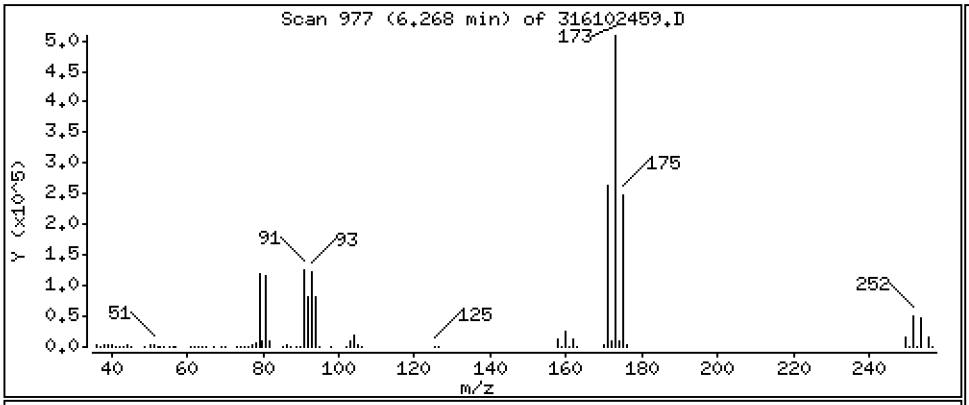
Client ID: Instrument: ms03.i

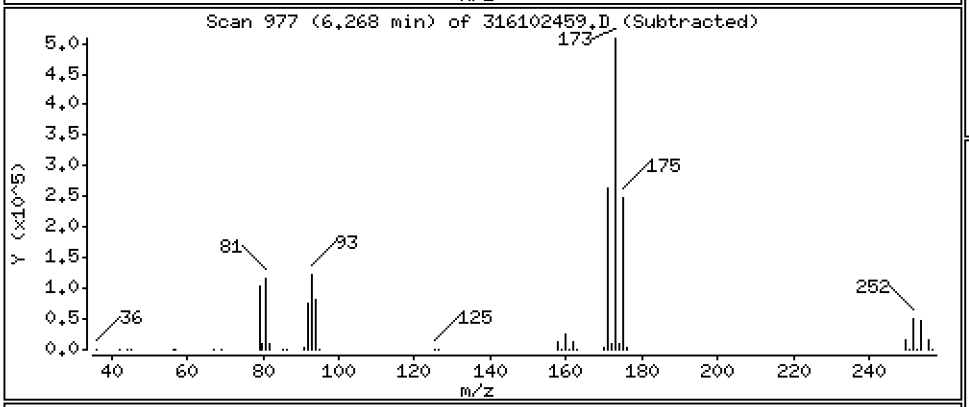
Sample Info: 1239;;1;1;6;;;

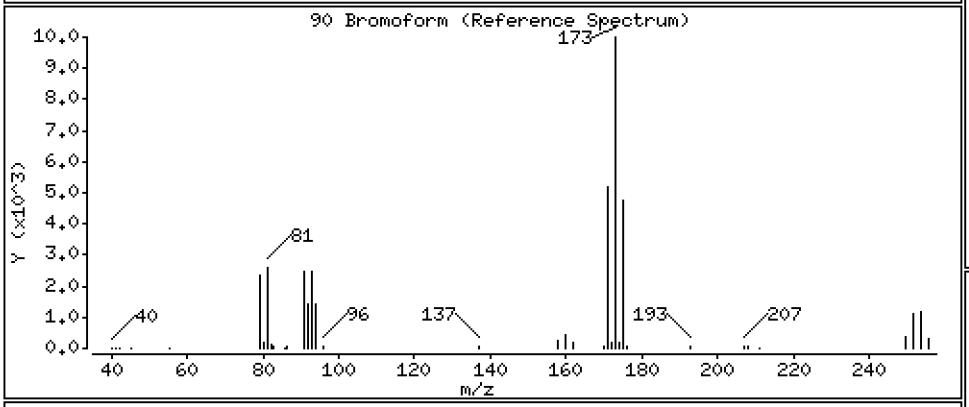
Purge Volume: 5.0 Operator: CJG

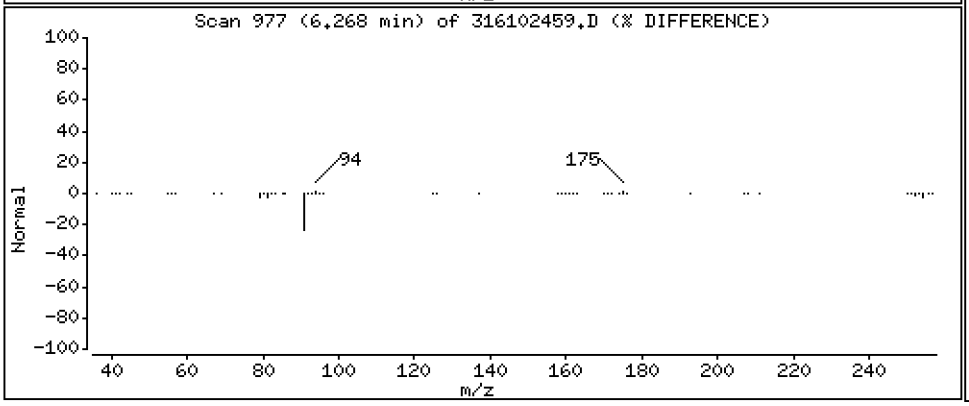
Column phase: DB-VRX Column diameter: 0.25

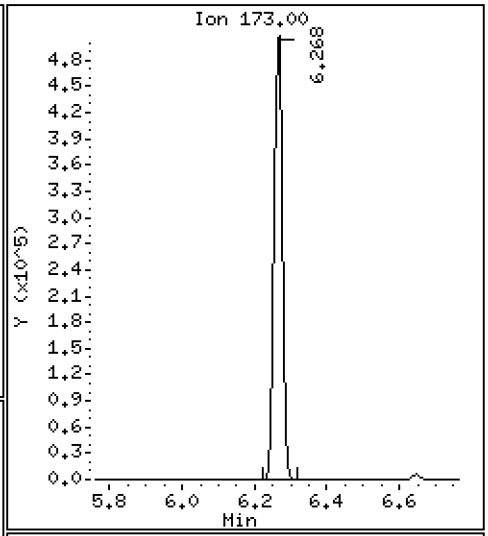
90 Bromoform Concentration: 199.791 ug/L

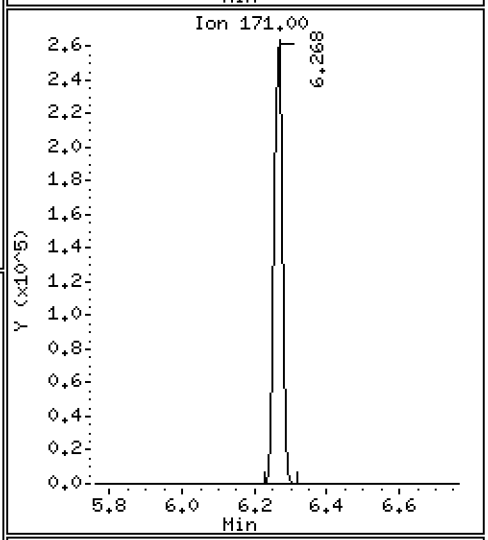


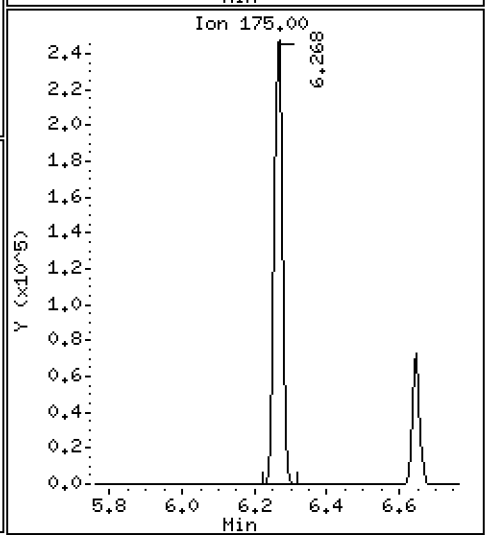












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 94

Date : 25-OCT-2016 01:36

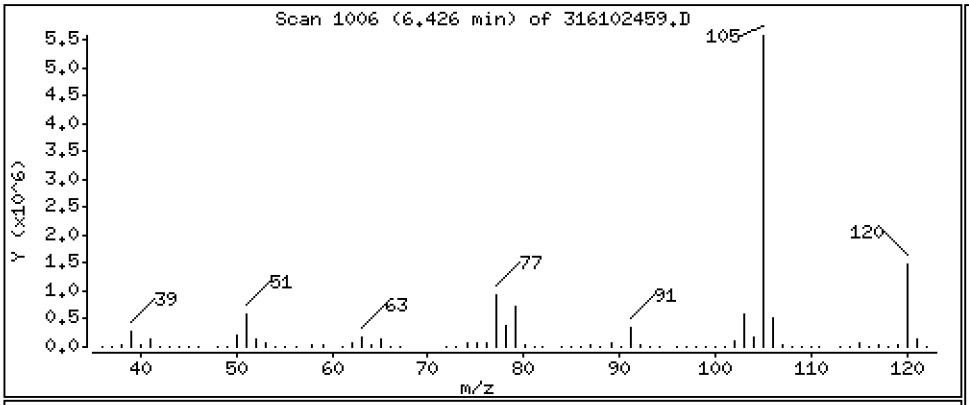
Client ID: Instrument: ms03.i

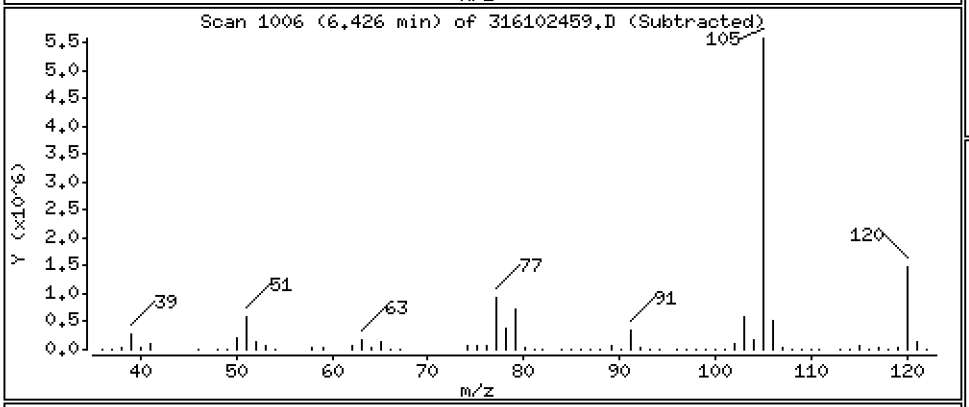
Sample Info: 1239;;1;1;6;;;

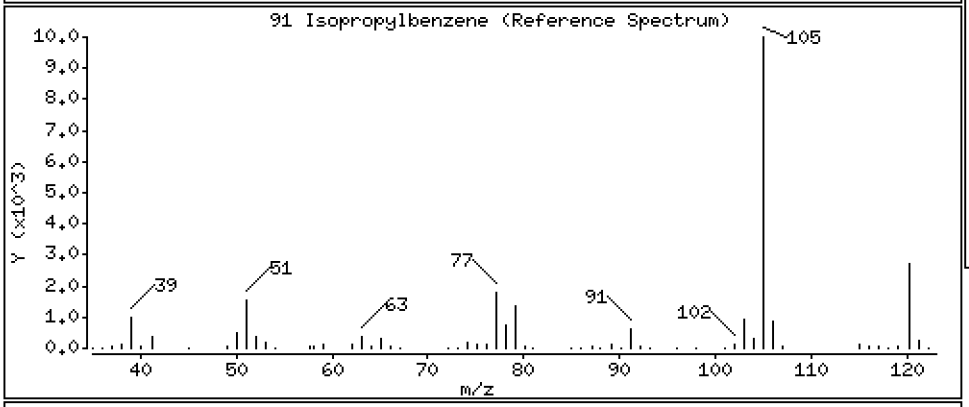
Purge Volume: 5.0 Operator: CJG

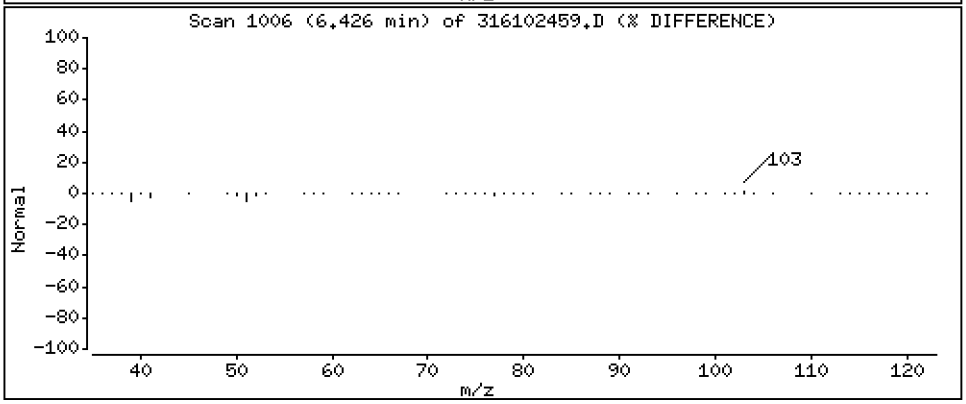
Column phase: DB-VRX Column diameter: 0.25

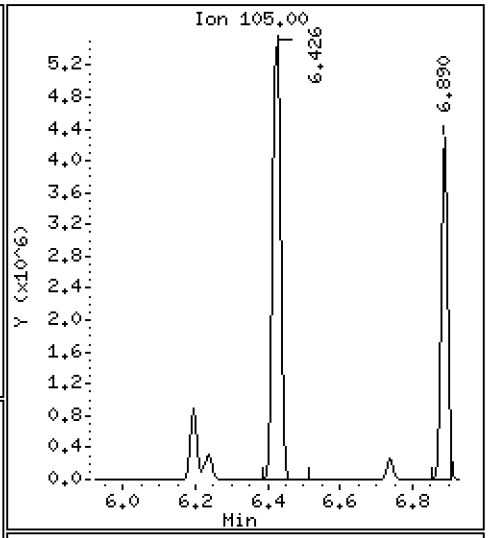
91 Isopropylbenzene Concentration: 199.964 ug/L

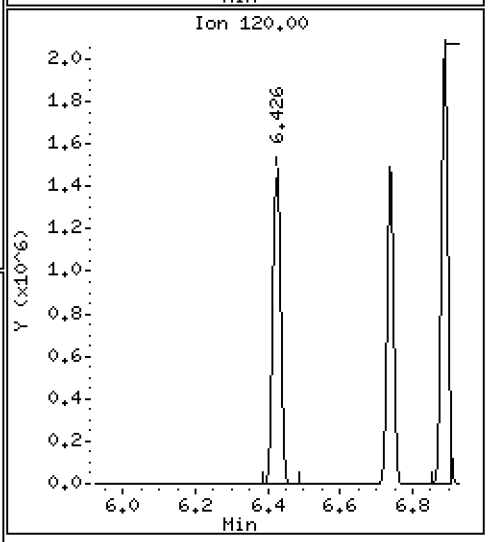












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 95

Date : 25-OCT-2016 01:36

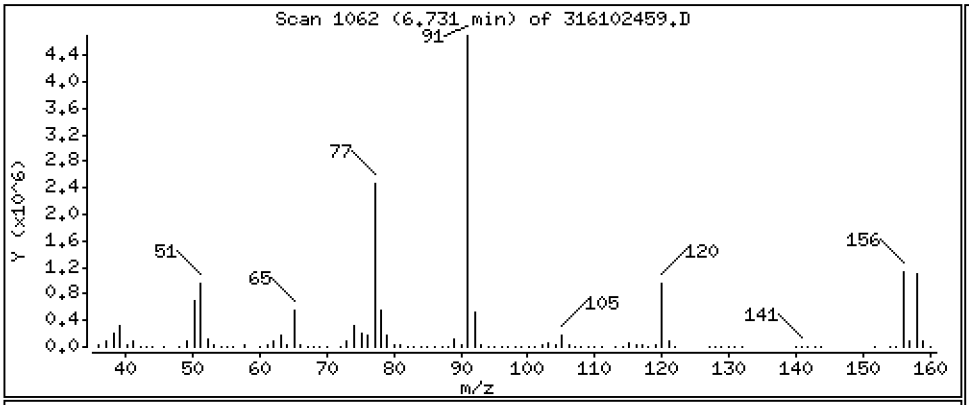
Client ID: Instrument: ms03.i

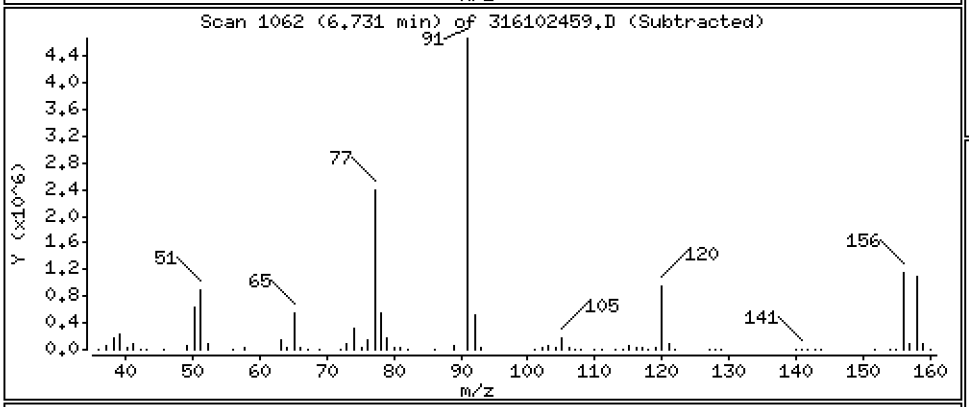
Sample Info: 1239;;1;1;6;;;

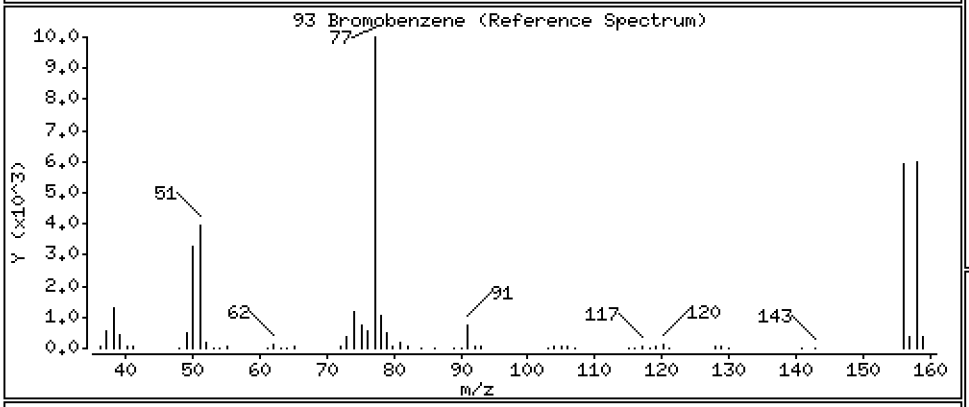
Purge Volume: 5.0 Operator: CJG

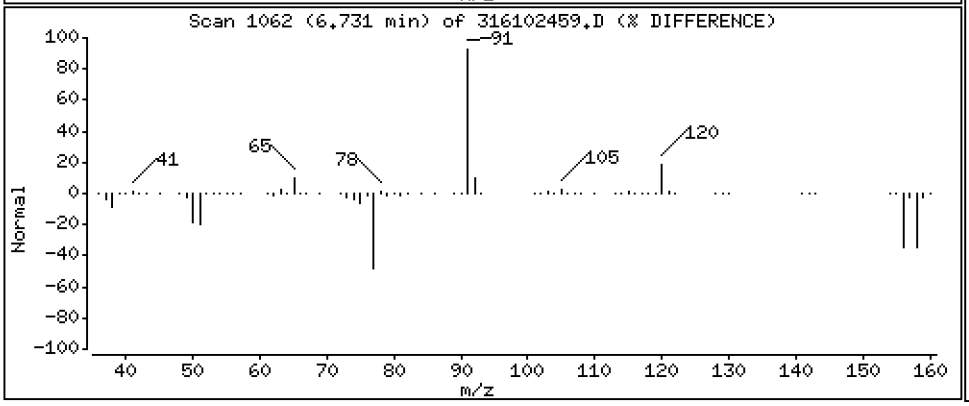
Column phase: DB-VRX Column diameter: 0.25

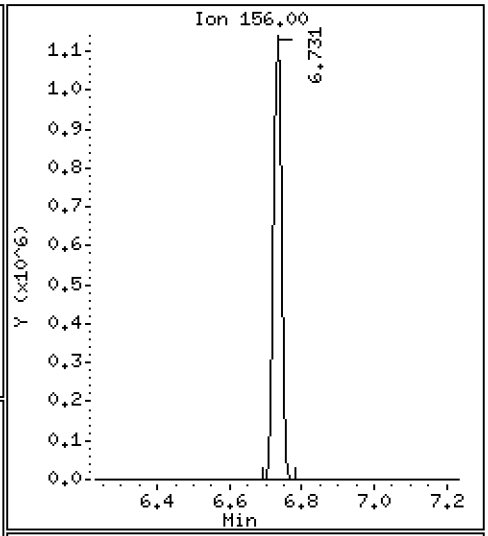
93 Bromobenzene Concentration: 199.983 ug/L

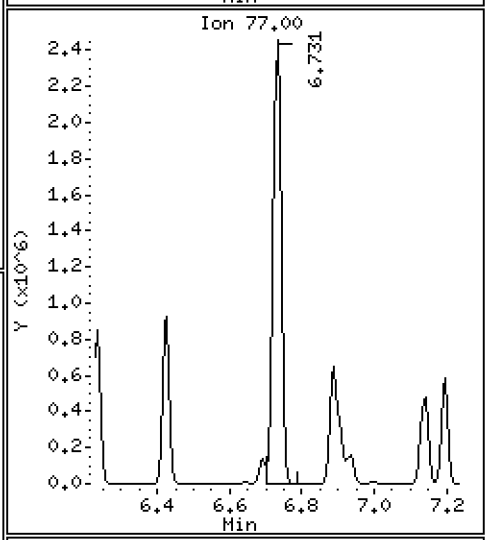


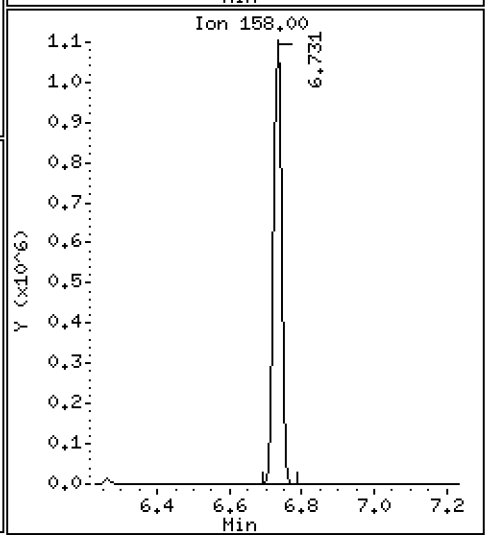












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 96

Date : 25-OCT-2016 01:36

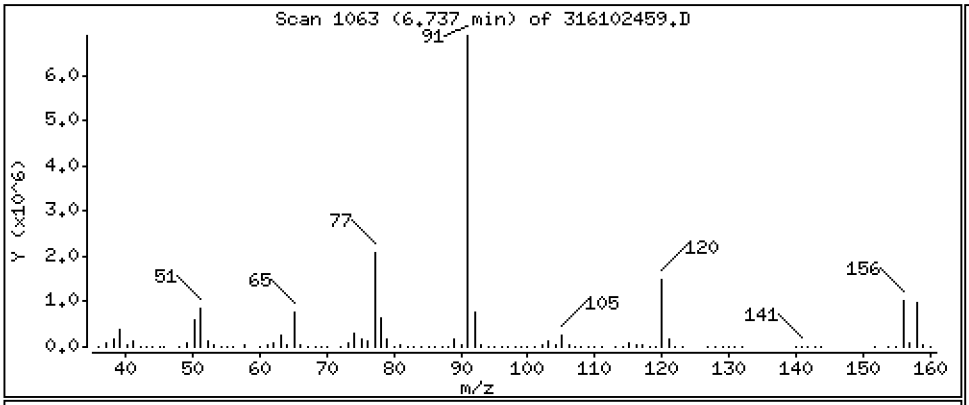
Client ID: Instrument: ms03.i

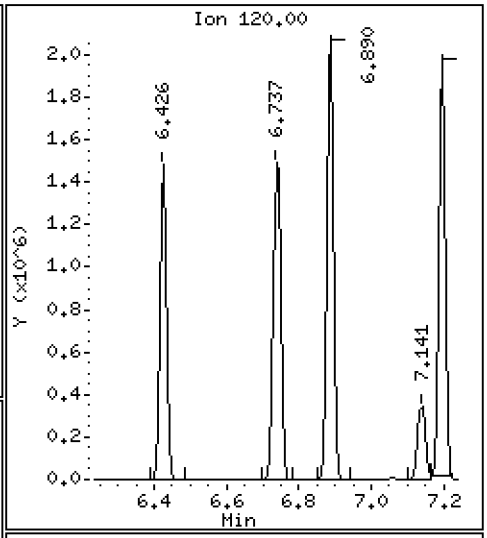
Sample Info: 1239;;1;1;6;;;

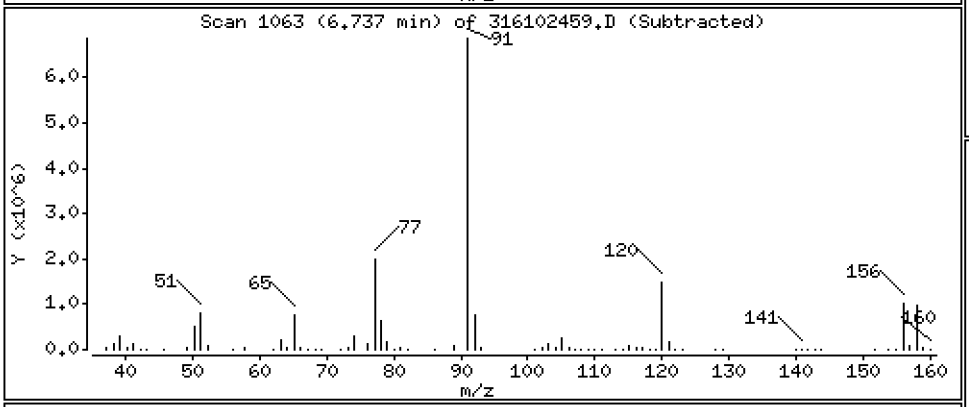
Purge Volume: 5.0 Operator: CJG

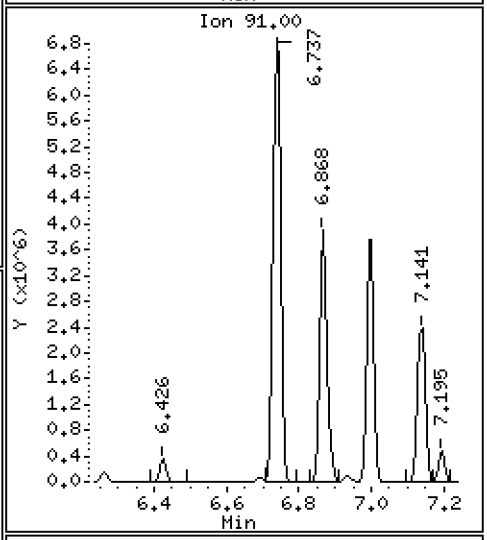
Column phase: DB-VRX Column diameter: 0.25

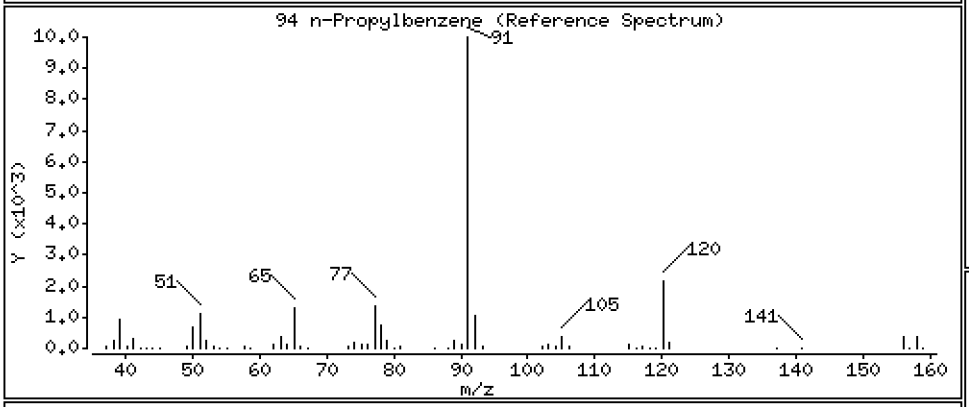
94 n-Propylbenzene Concentration: 199.982 ug/L

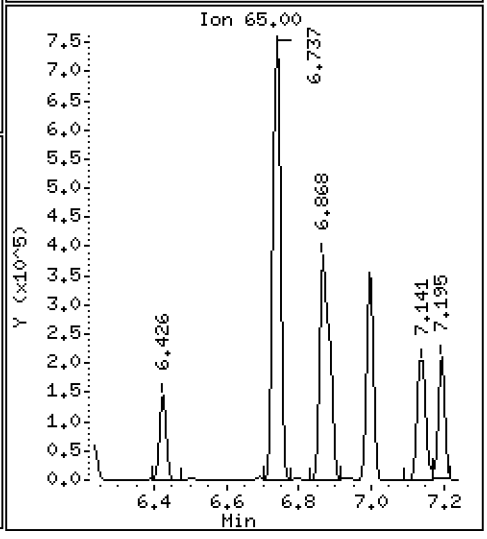


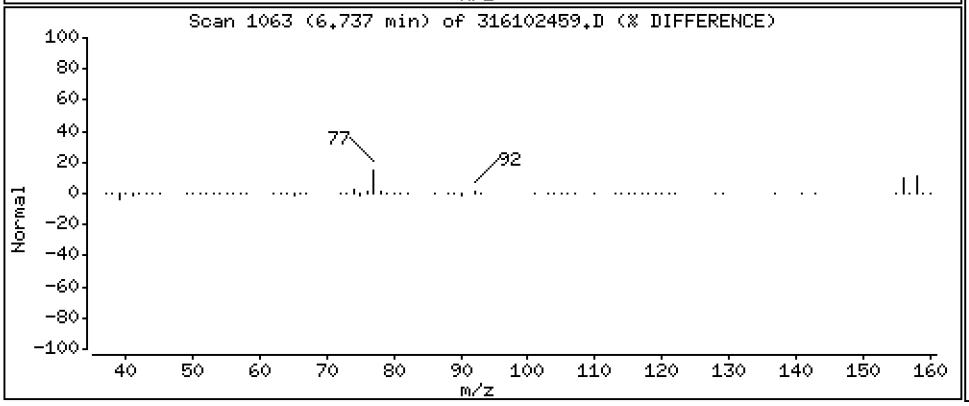












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 97

Date : 25-OCT-2016 01:36

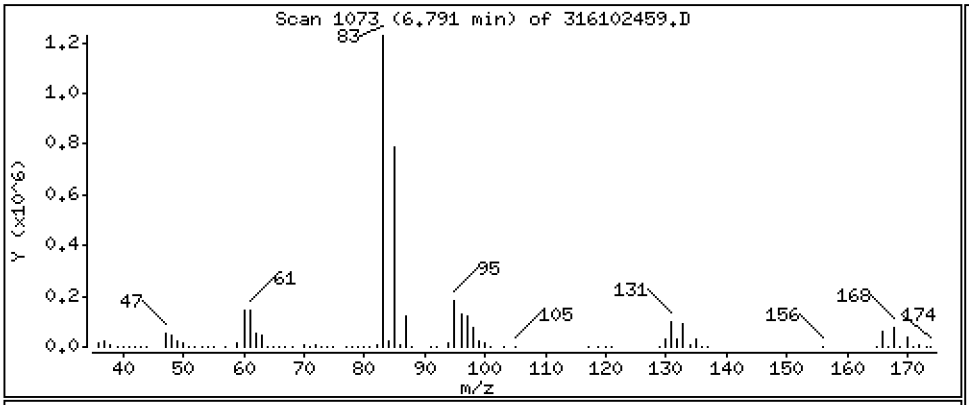
Client ID: Instrument: ms03.i

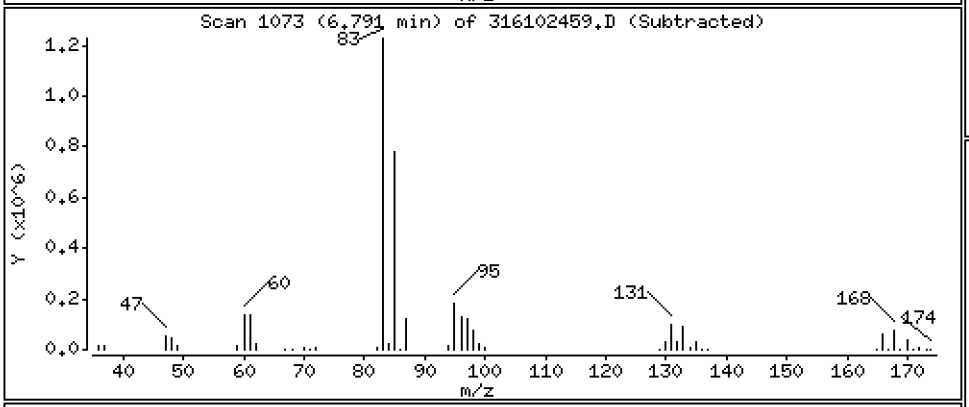
Sample Info: 1239;;1;1;6;;;

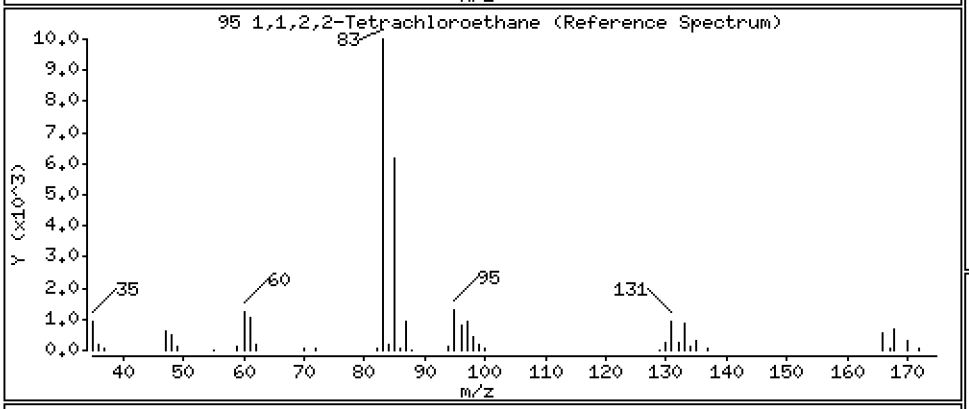
Purge Volume: 5.0 Operator: CJG

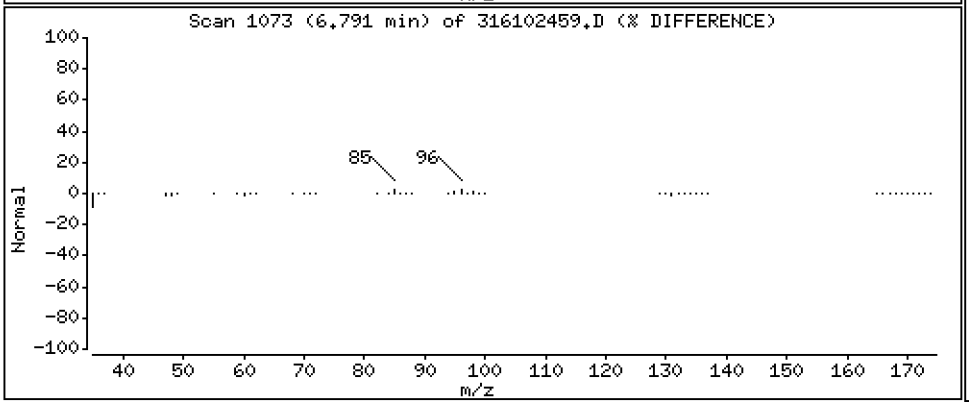
Column phase: DB-VRX Column diameter: 0.25

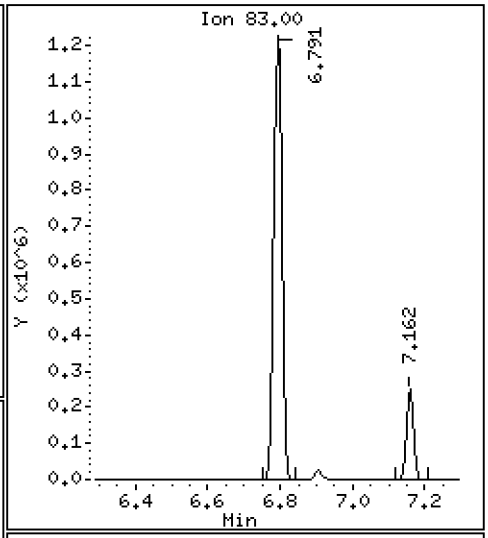
95 1,1,2,2-Tetrachloroethane Concentration: 200.124 ug/L

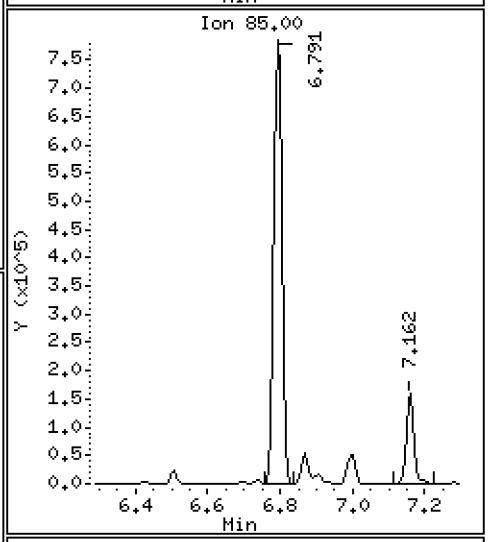


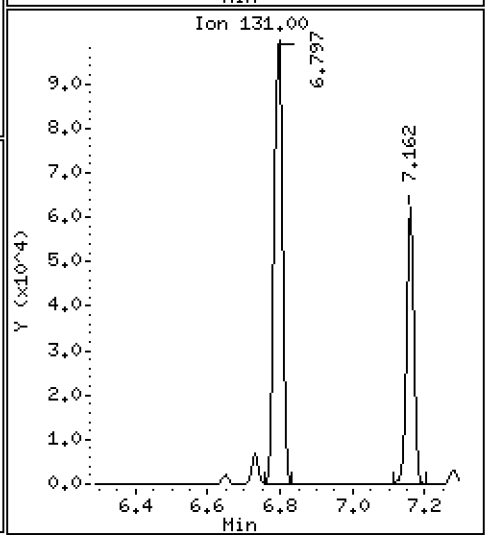












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 98

Date : 25-OCT-2016 01:36

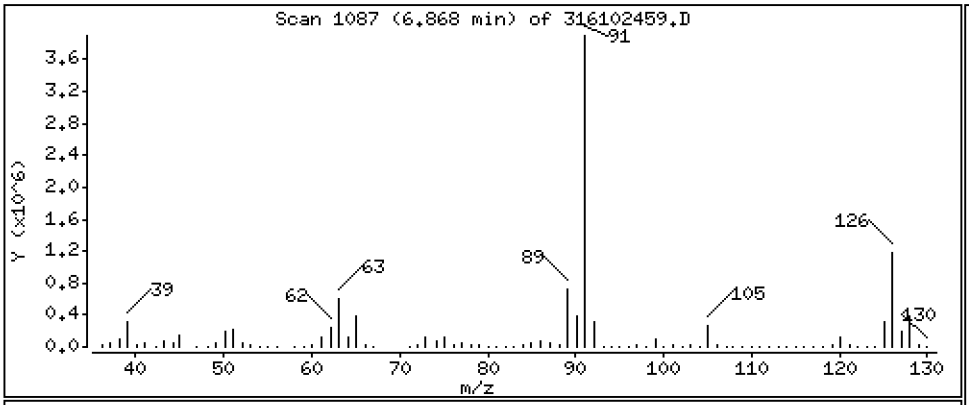
Client ID: Instrument: ms03.i

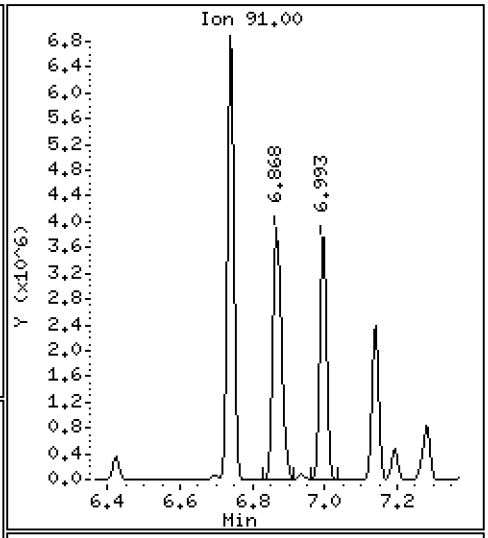
Sample Info: 1239;;1;1;6;;;

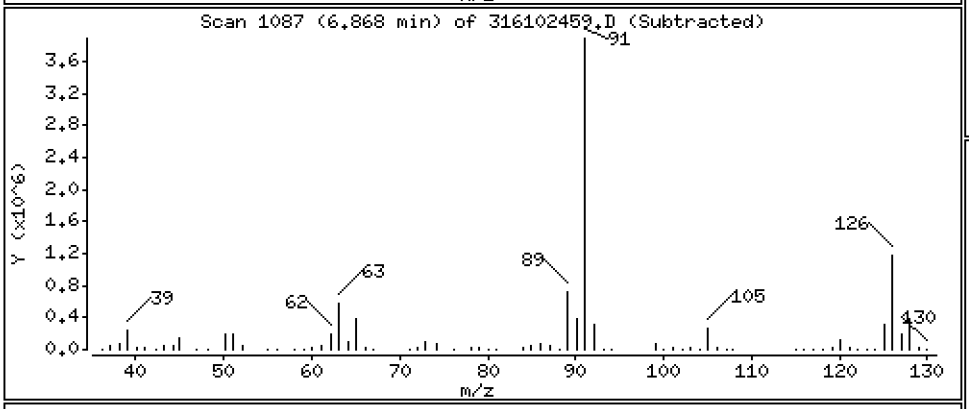
Purge Volume: 5.0 Operator: CJG

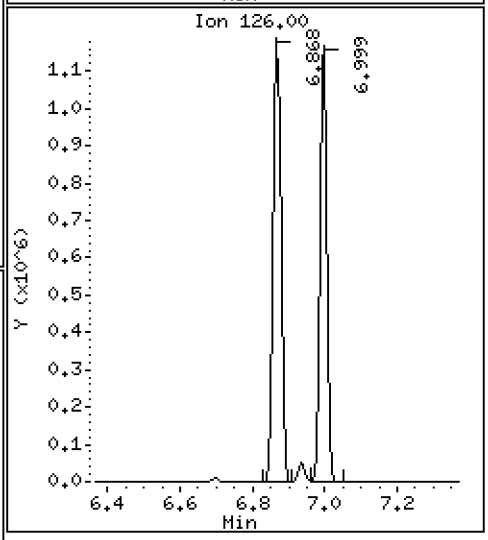
Column phase: DB-VRX Column diameter: 0.25

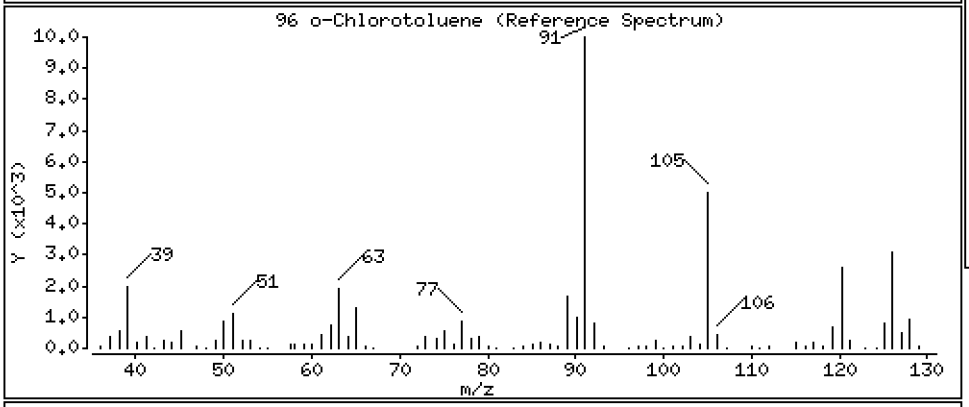
96 o-Chlorotoluene Concentration: 199.958 ug/L

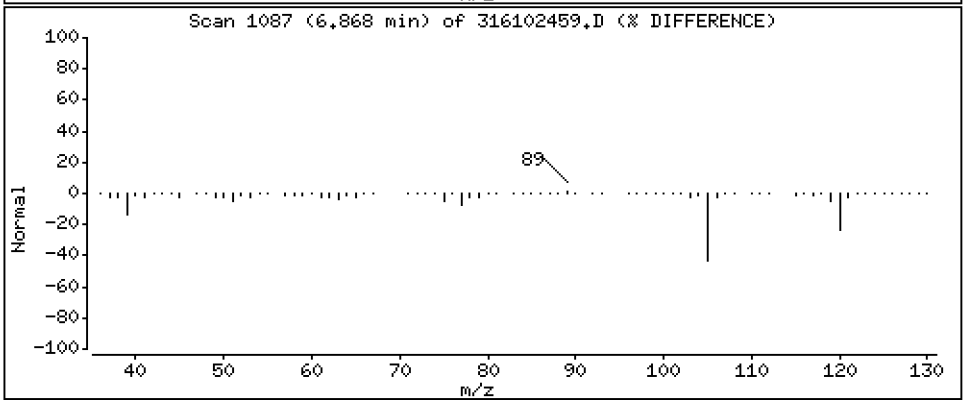












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 99

Date : 25-OCT-2016 01:36

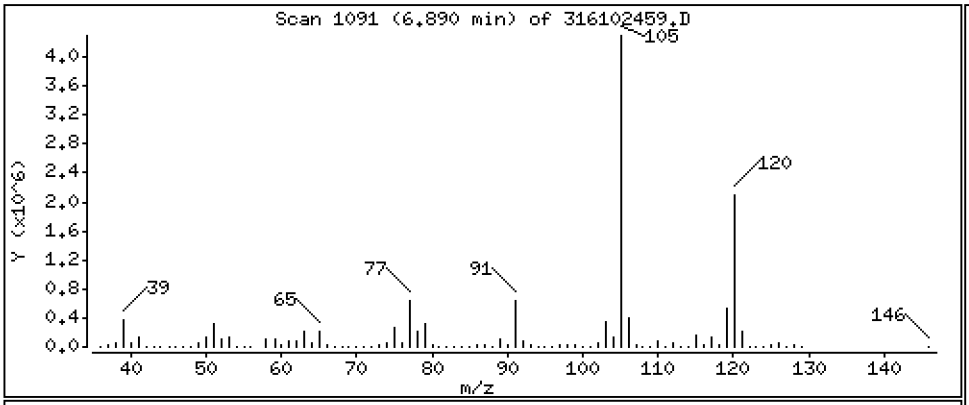
Client ID: Instrument: ms03.i

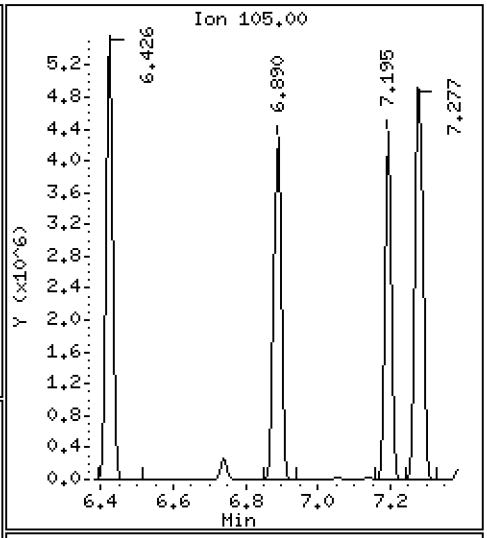
Sample Info: 1239;;1;1;6;;;

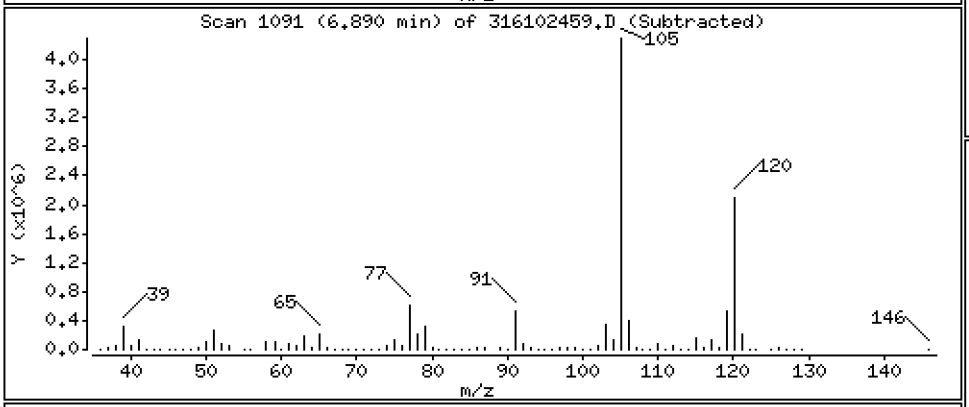
Purge Volume: 5.0 Operator: CJG

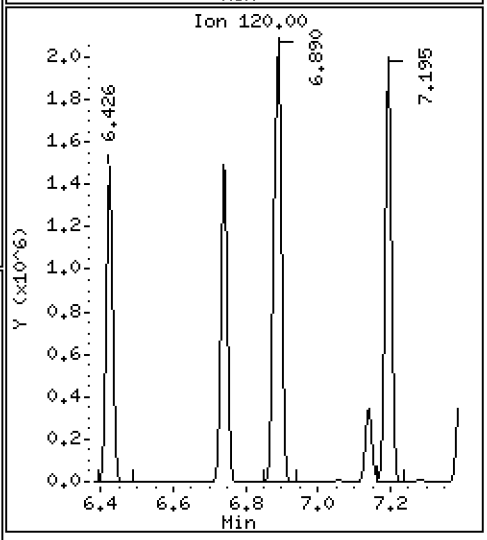
Column phase: DB-VRX Column diameter: 0.25

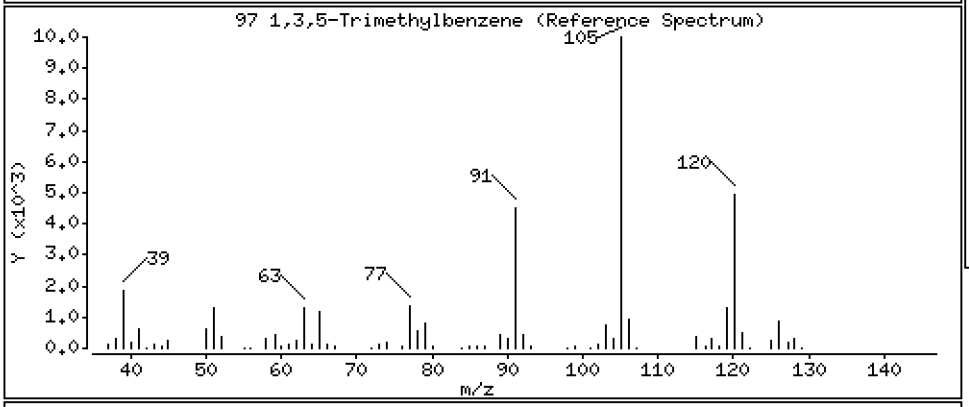
97 1,3,5-Trimethylbenzene Concentration: 199.938 ug/L

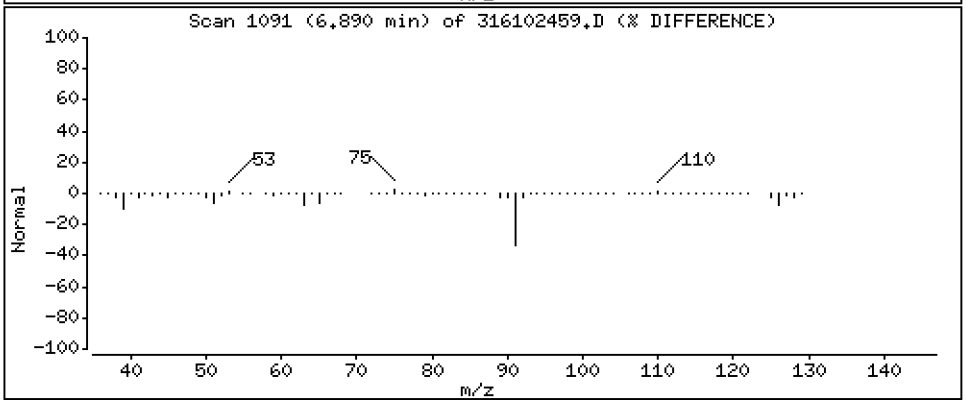












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 100

Date : 25-OCT-2016 01:36

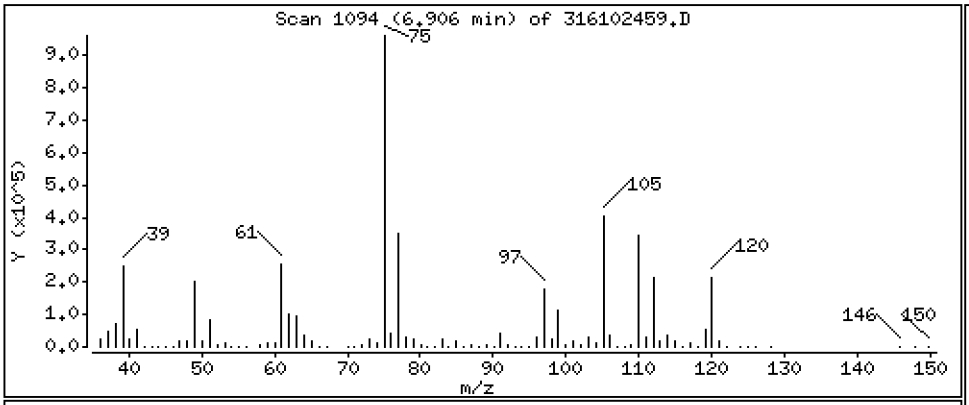
Client ID: Instrument: ms03.i

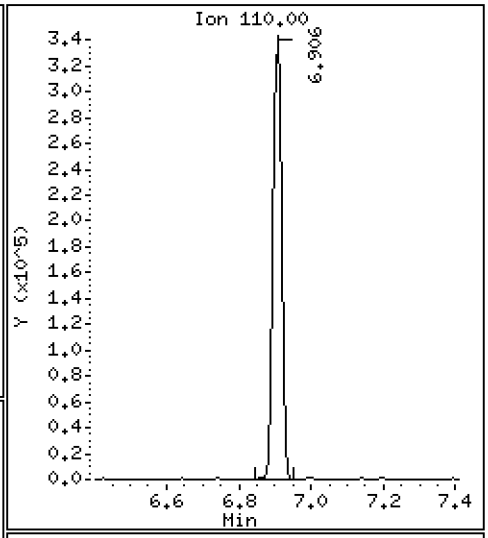
Sample Info: 1239;;1;1;6;;;

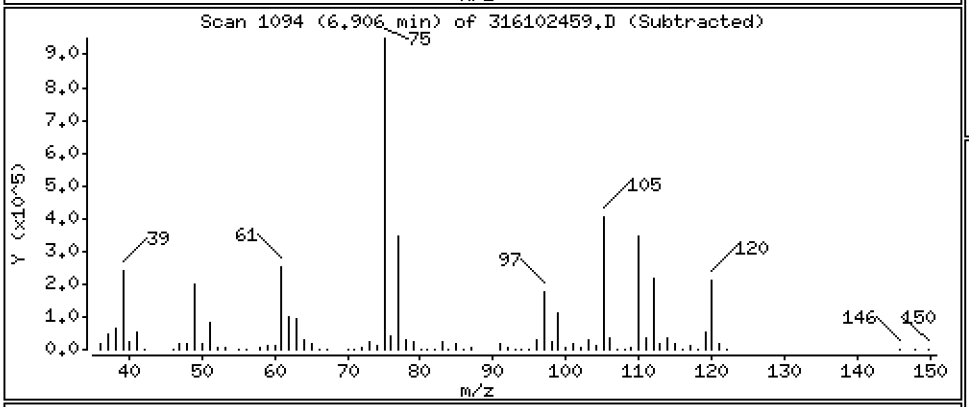
Purge Volume: 5.0 Operator: CJG

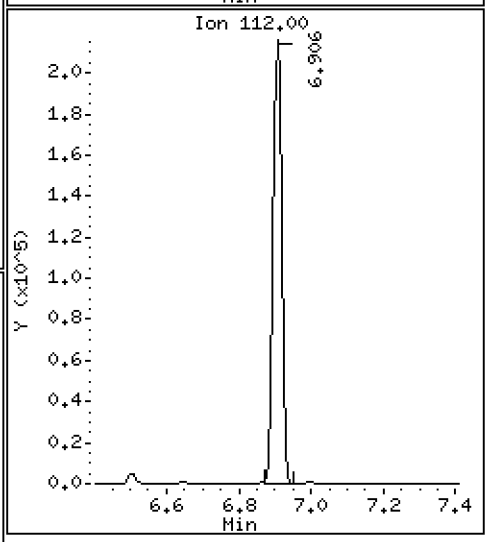
Column phase: DB-VRX Column diameter: 0.25

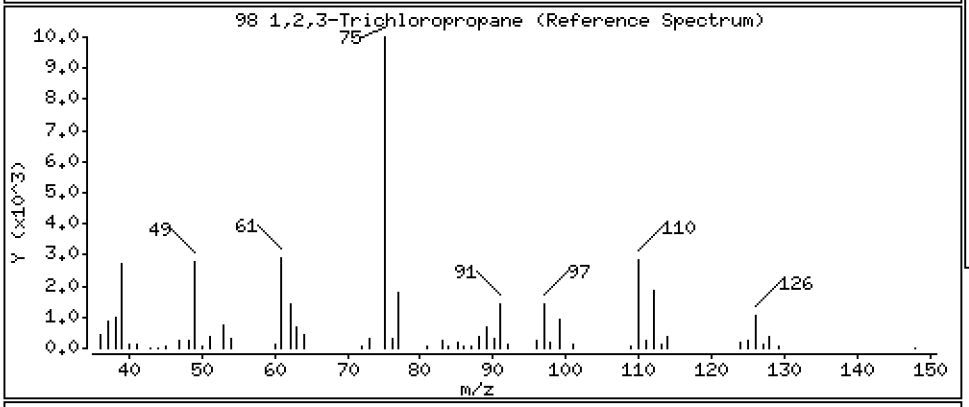
98 1,2,3-Trichloropropane Concentration: 200.191 ug/L

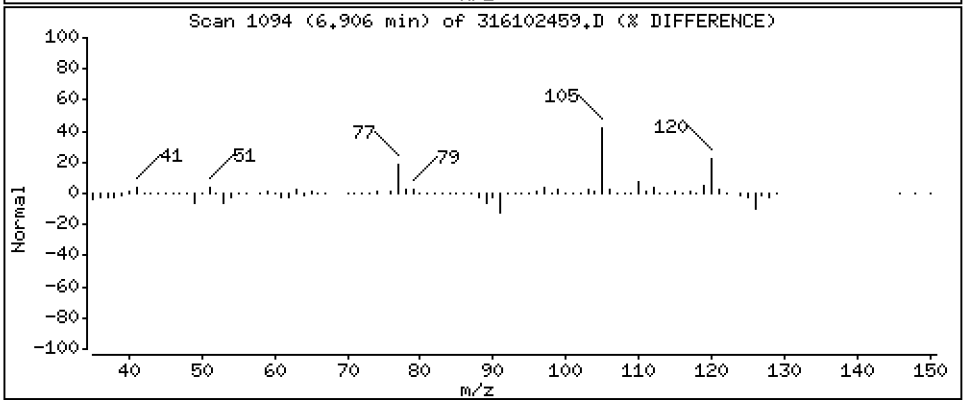












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 101

Date : 25-OCT-2016 01:36

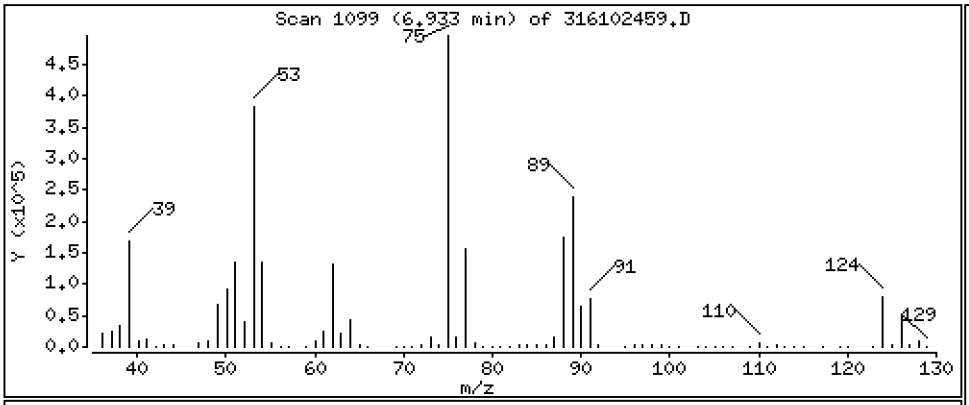
Client ID: Instrument: ms03.i

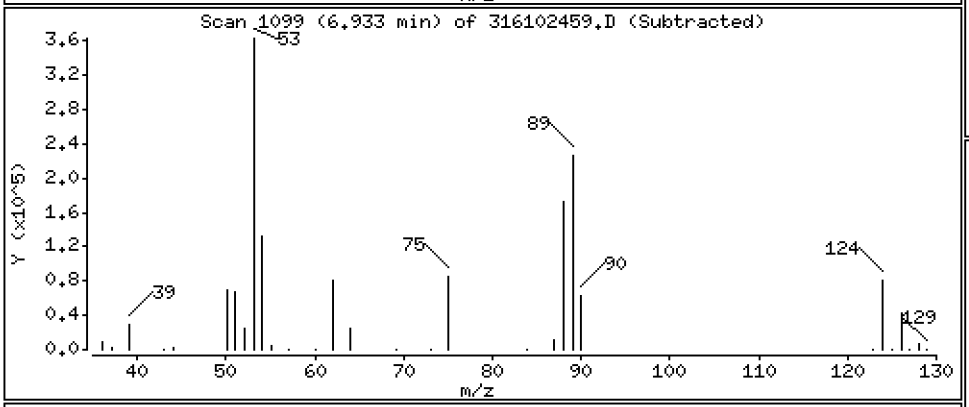
Sample Info: 1239;;1;1;6;;;

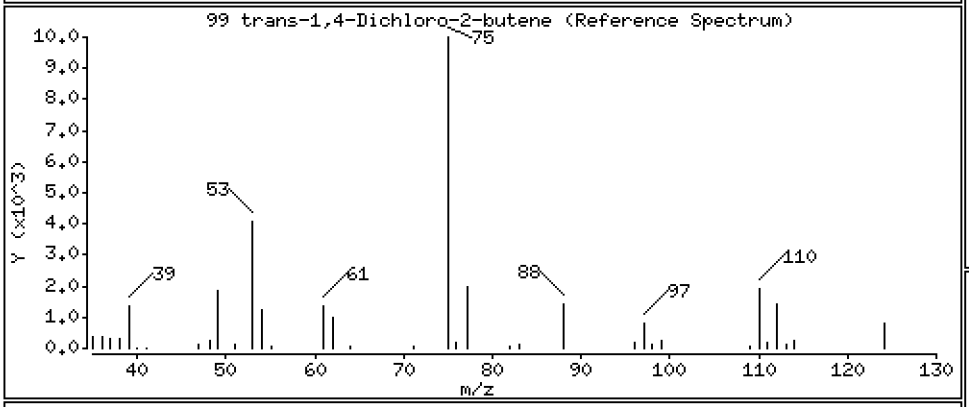
Purge Volume: 5.0 Operator: CJG

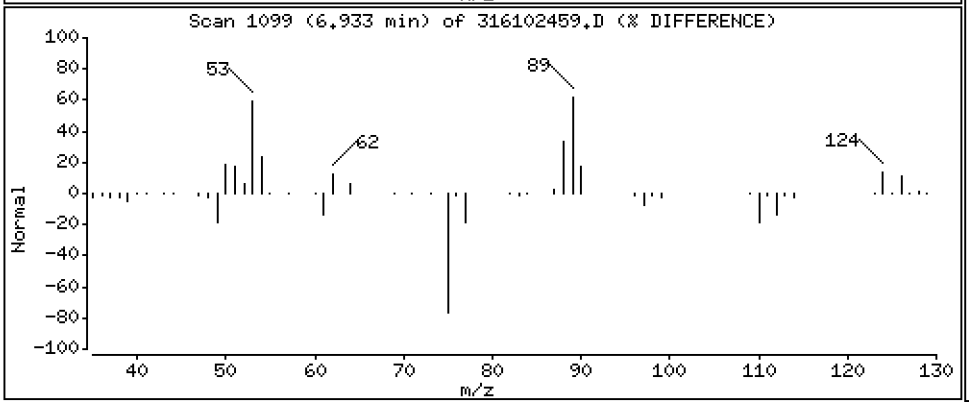
Column phase: DB-VRX Column diameter: 0.25

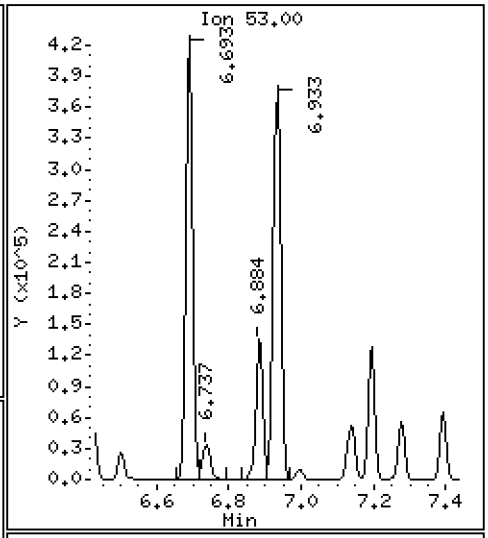
99 trans-1,4-Dichloro-2-butene Concentration: 199.842 ug/L

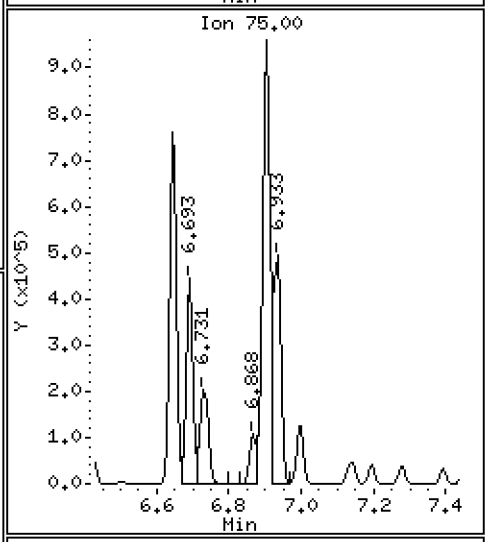


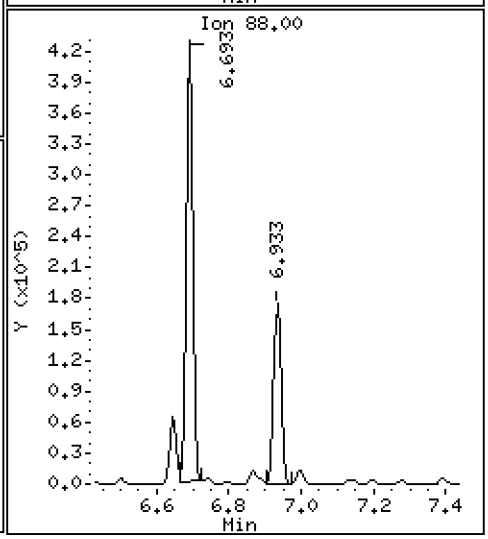












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 102

Date : 25-OCT-2016 01:36

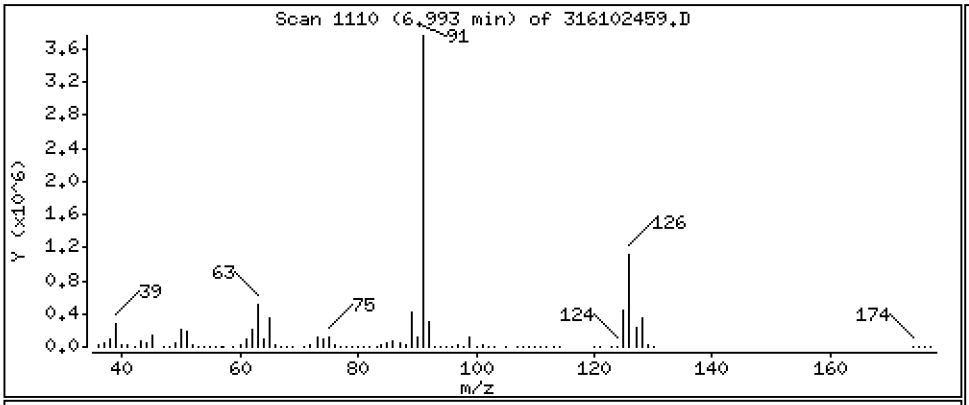
Client ID: Instrument: ms03.i

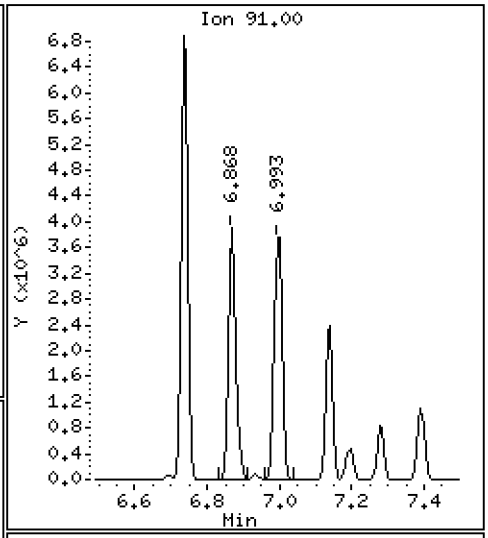
Sample Info: 1239;;1;1;6;;;

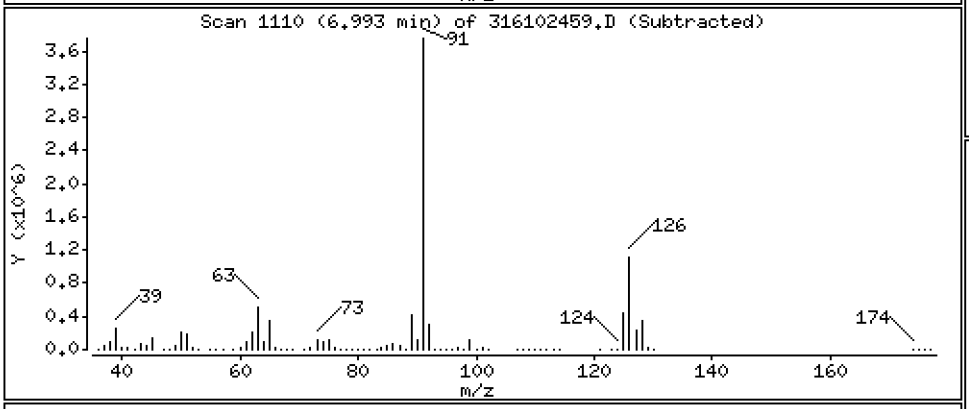
Purge Volume: 5.0 Operator: CJG

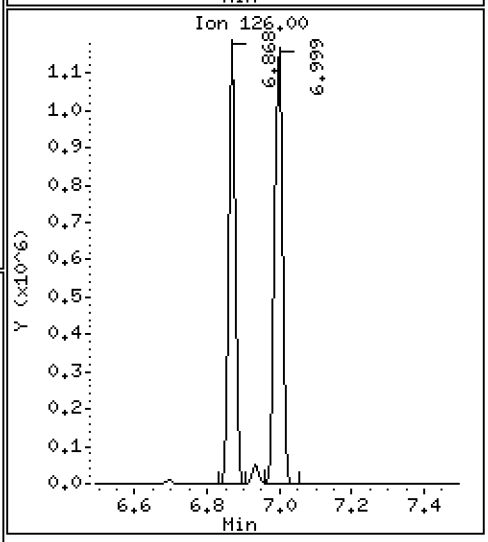
Column phase: DB-VRX Column diameter: 0.25

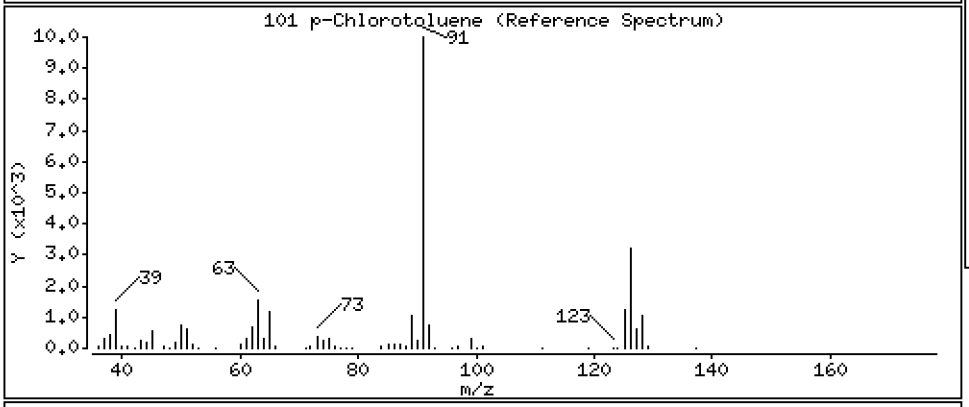
101 p-Chlorotoluene Concentration: 199.900 ug/L

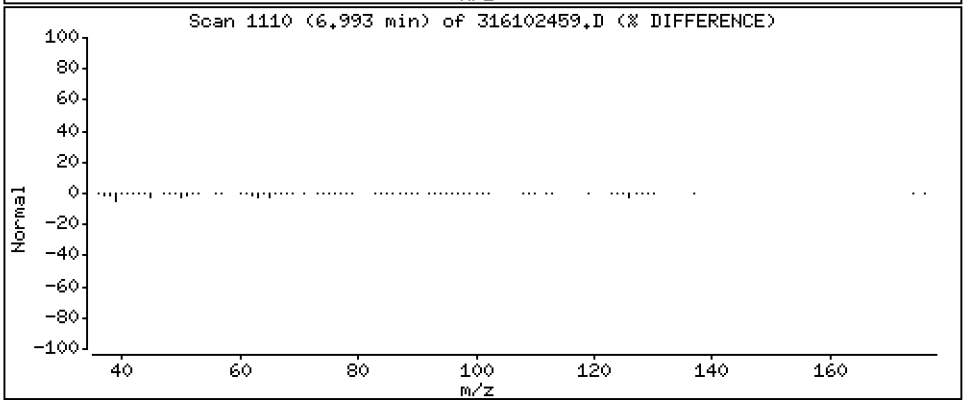












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 103

Date : 25-OCT-2016 01:36

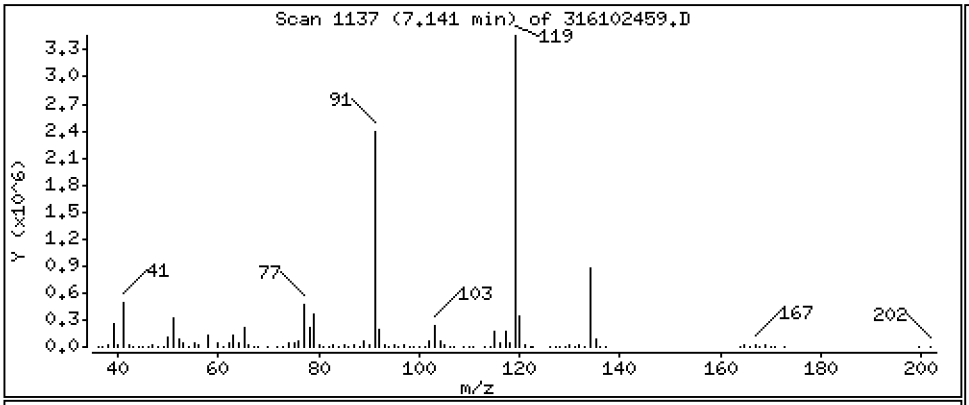
Client ID: Instrument: ms03.i

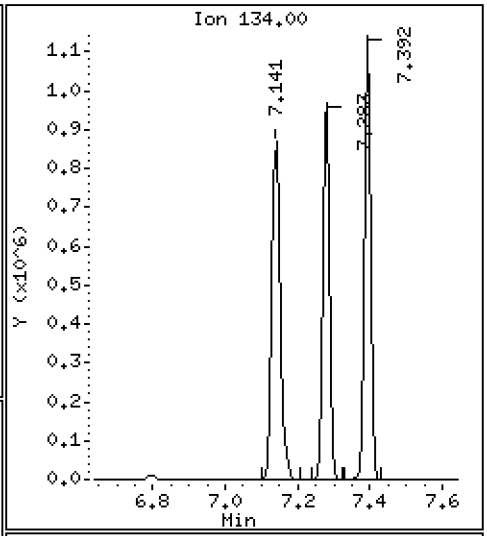
Sample Info: 1239;;1;1;6;;;

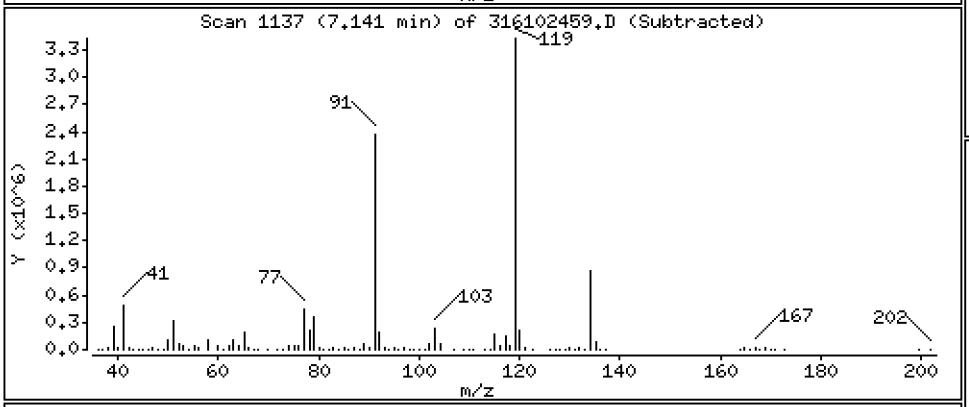
Purge Volume: 5.0 Operator: CJG

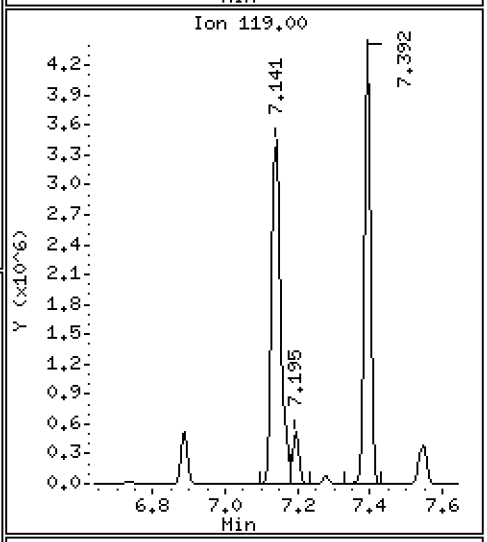
Column phase: DB-VRX Column diameter: 0.25

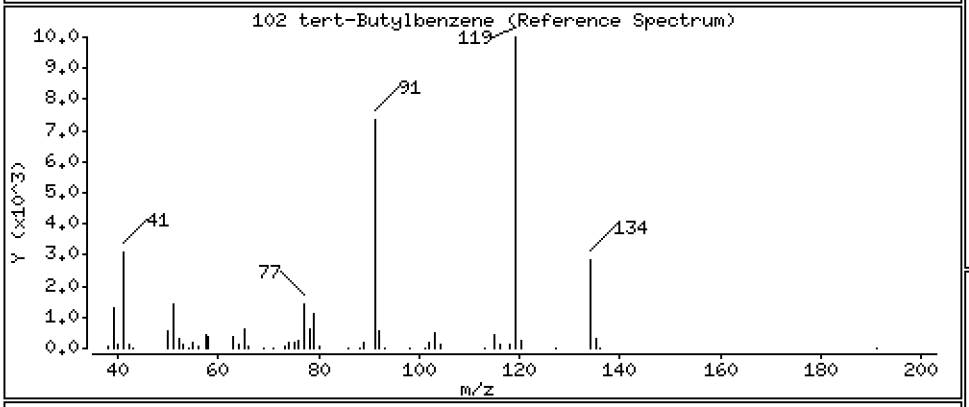
102 tert-Butylbenzene Concentration: 199.938 ug/L

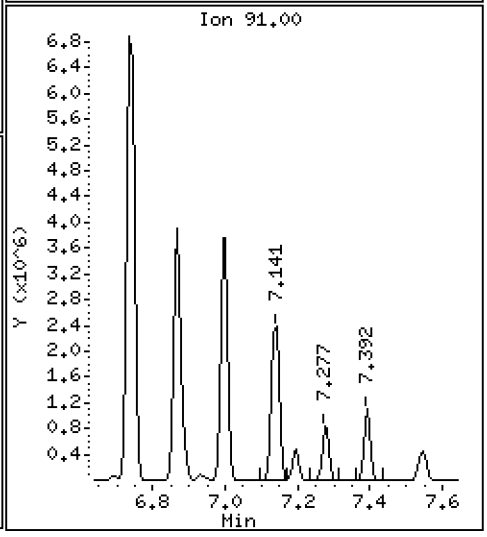


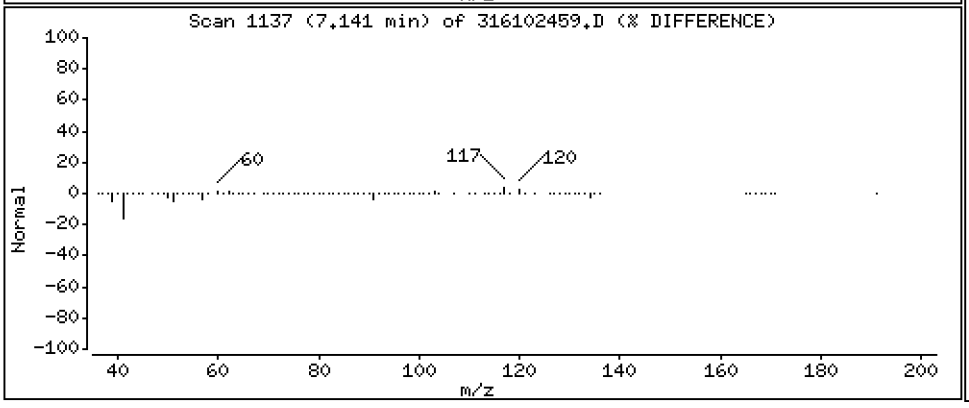












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 104

Date : 25-OCT-2016 01:36

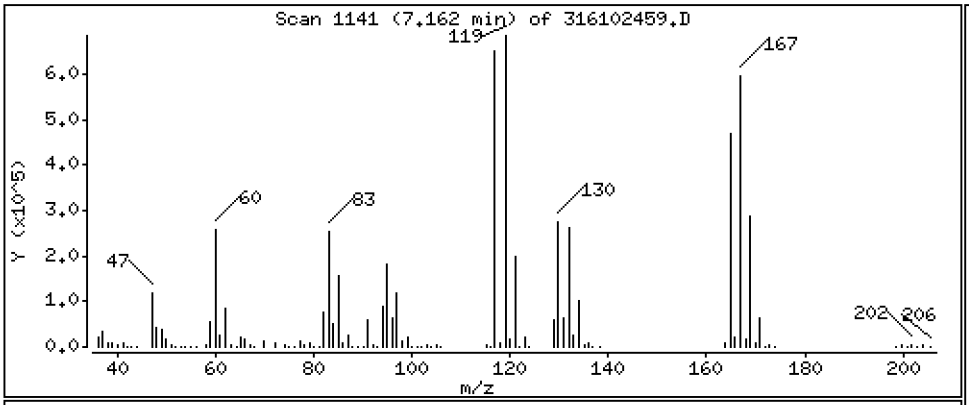
Client ID: Instrument: ms03.i

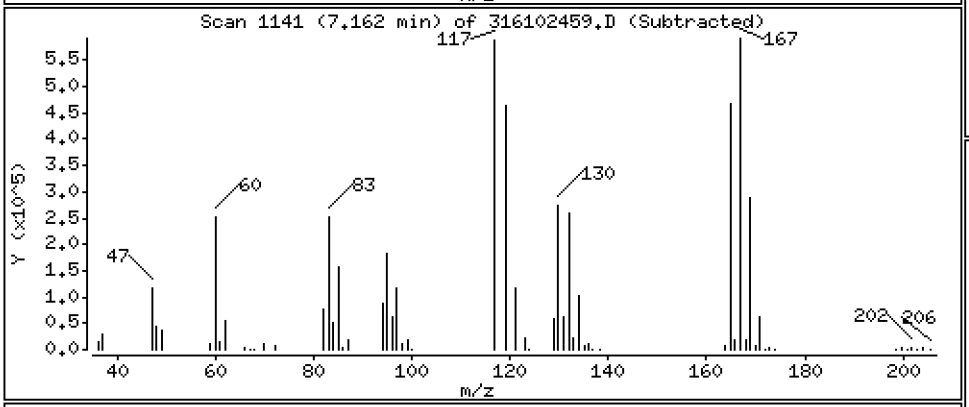
Sample Info: 1239;;1;1;6;;;

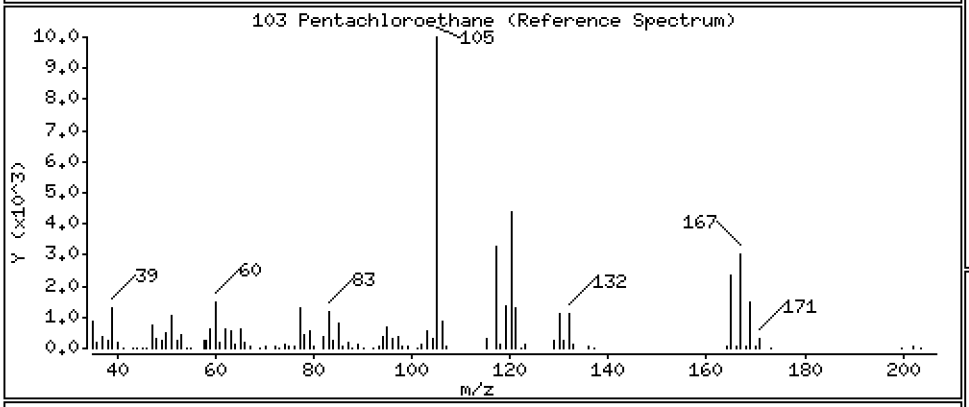
Purge Volume: 5.0 Operator: CJG

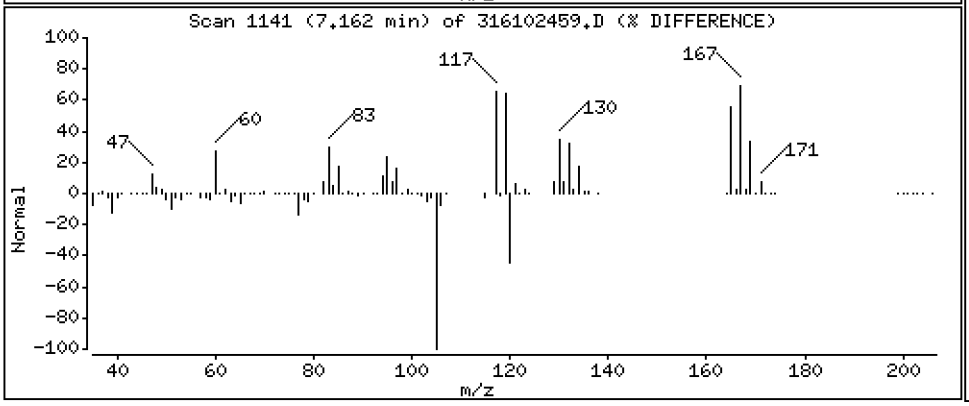
Column phase: DB-VRX Column diameter: 0.25

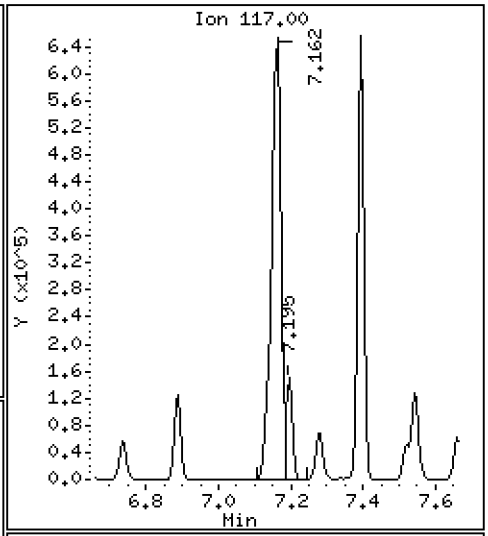
103 Pentachloroethane Concentration: 199.812 ug/L

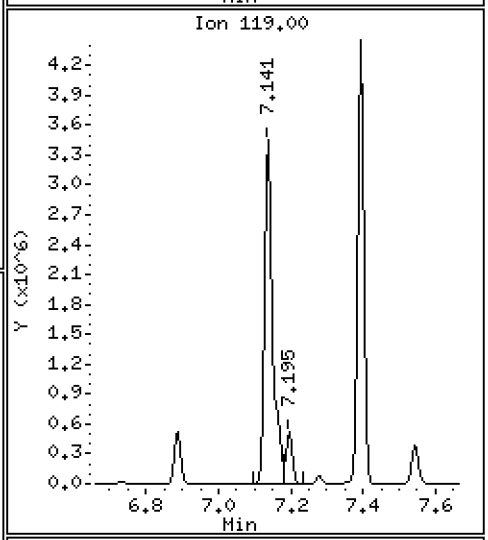


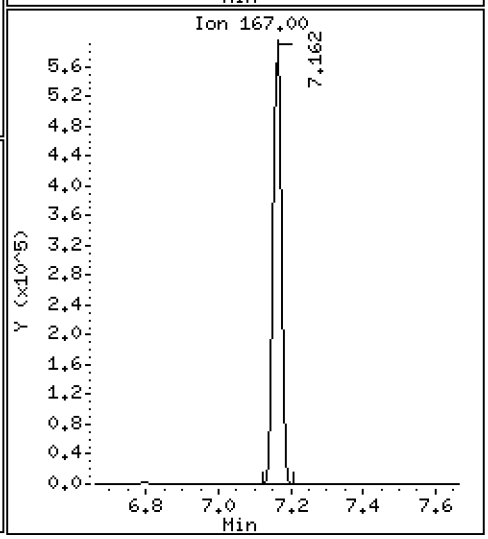












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 105

Date : 25-OCT-2016 01:36

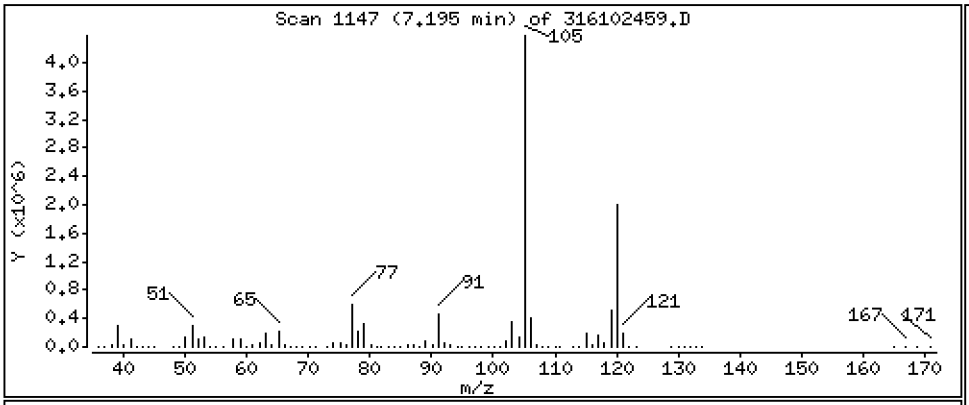
Client ID: Instrument: ms03.i

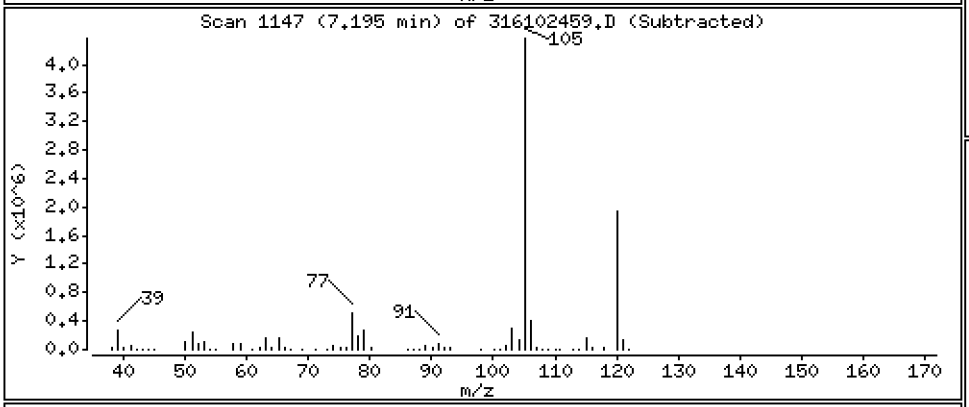
Sample Info: 1239;;1;1;6;;;

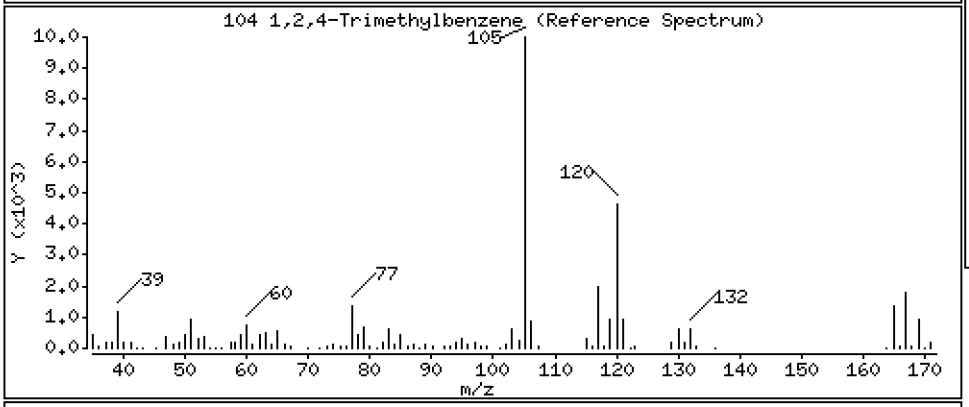
Purge Volume: 5.0 Operator: CJG

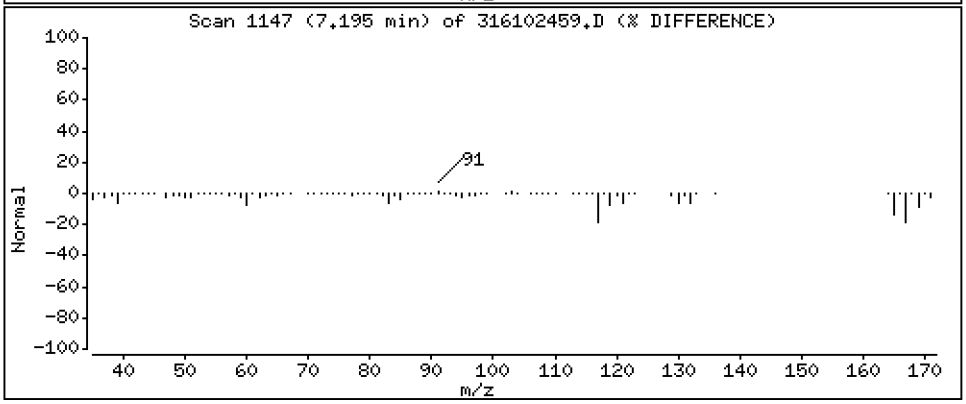
Column phase: DB-VRX Column diameter: 0.25

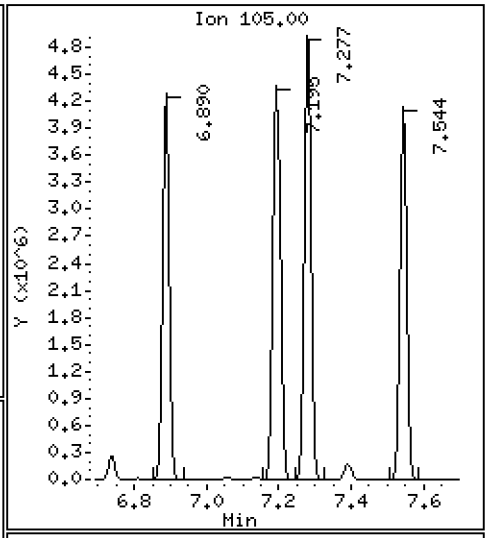
104 1,2,4-Trimethylbenzene Concentration: 199.902 ug/L

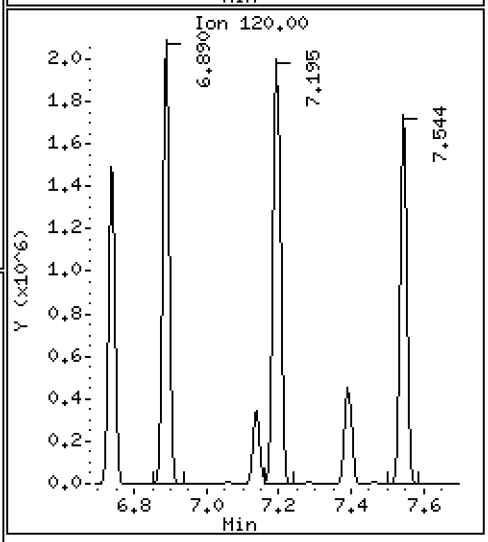












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 106

Date : 25-OCT-2016 01:36

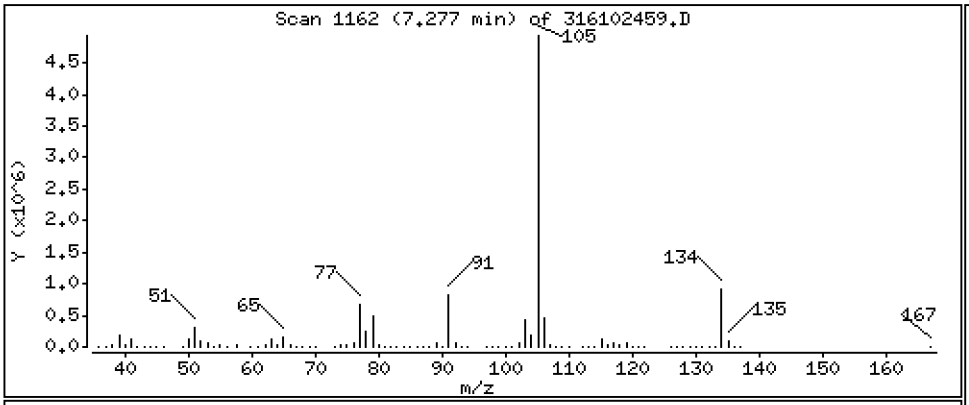
Client ID: Instrument: ms03.i

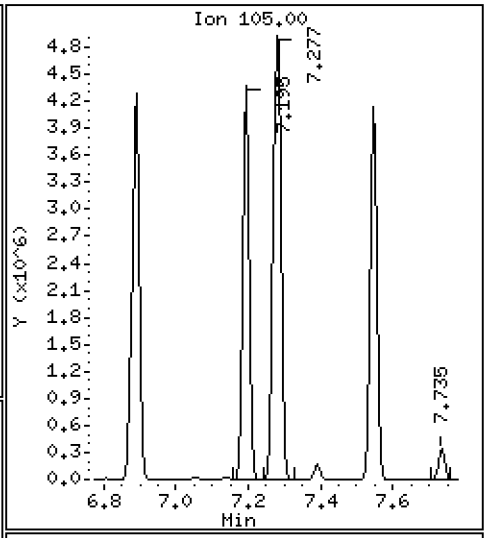
Sample Info: 1239;;1;1;6;;;

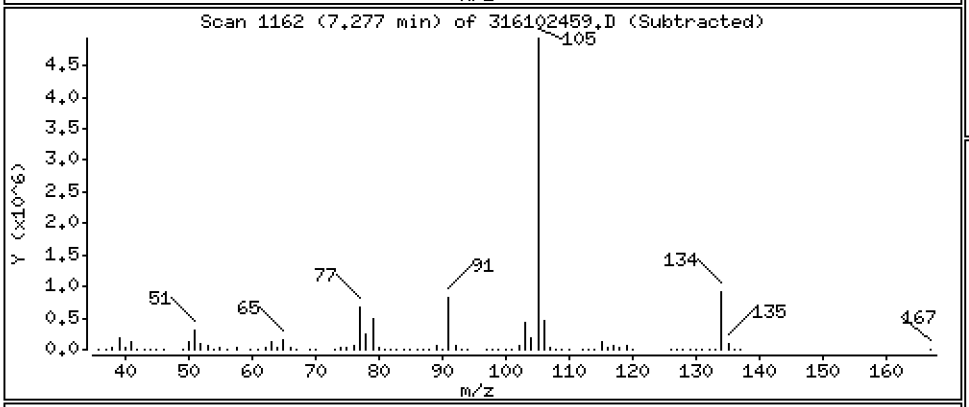
Purge Volume: 5.0 Operator: CJG

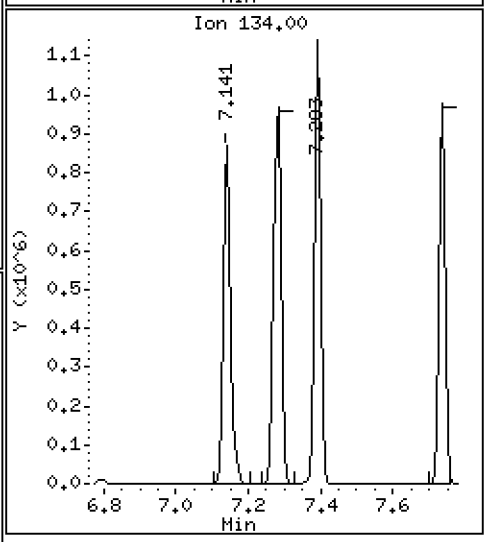
Column phase: DB-VRX Column diameter: 0.25

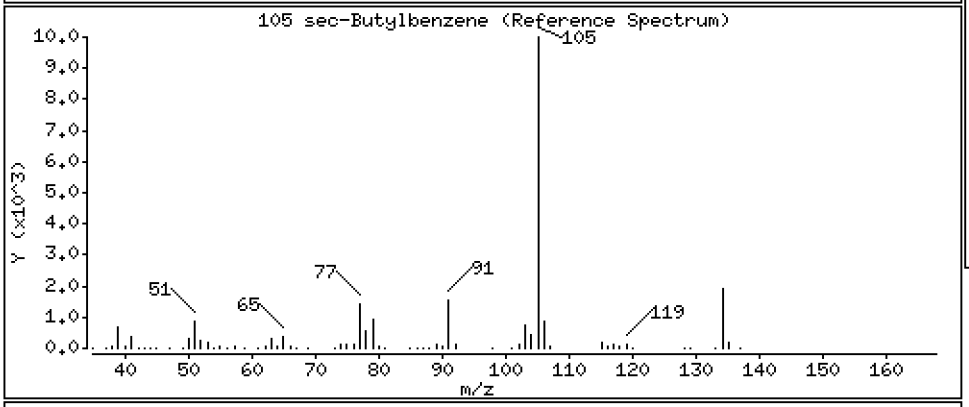
105 sec-Butylbenzene Concentration: 199.873 ug/L

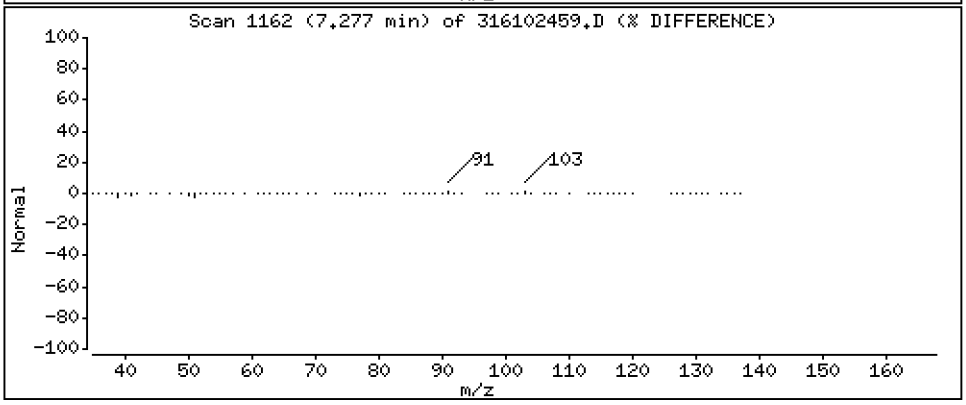












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 107

Date : 25-OCT-2016 01:36

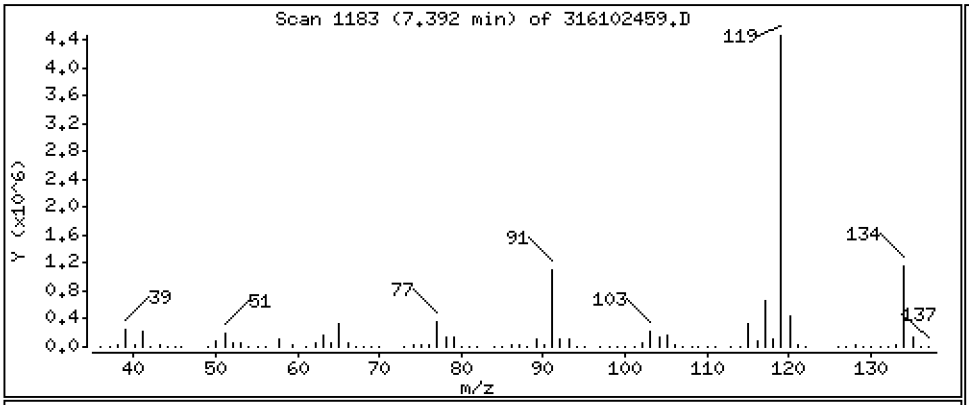
Client ID: Instrument: ms03.i

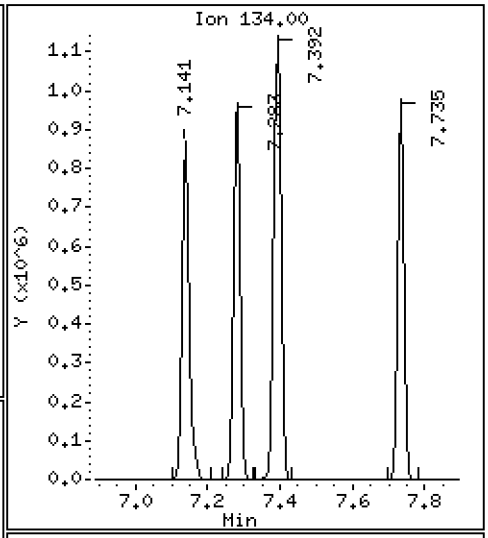
Sample Info: 1239;;1;1;6;;;

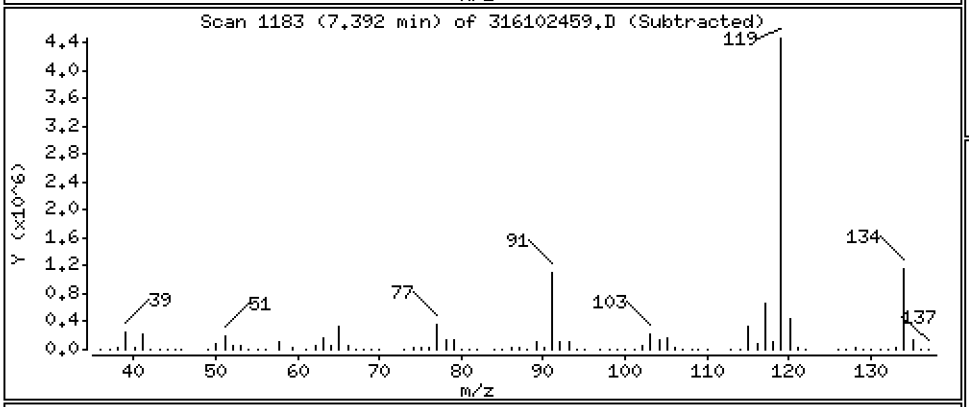
Purge Volume: 5.0 Operator: CJG

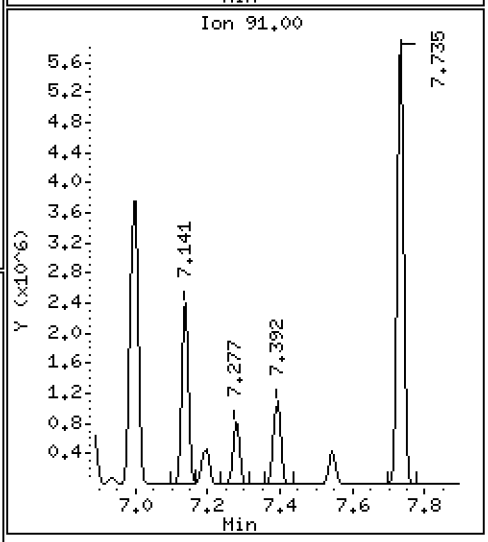
Column phase: DB-VRX Column diameter: 0.25

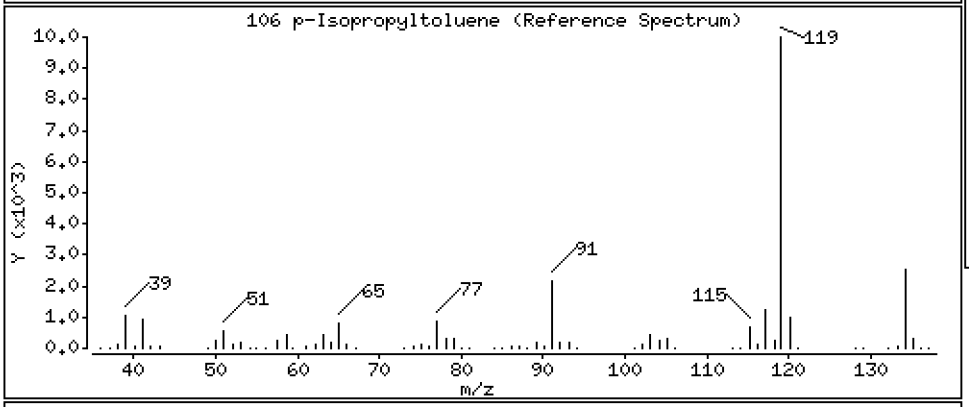
106 p-Isopropyltoluene Concentration: 199.845 ug/L

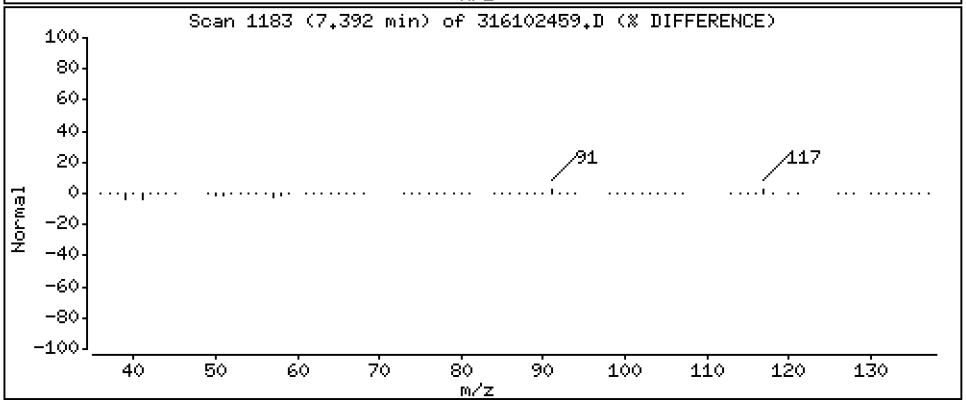












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 108

Date : 25-OCT-2016 01:36

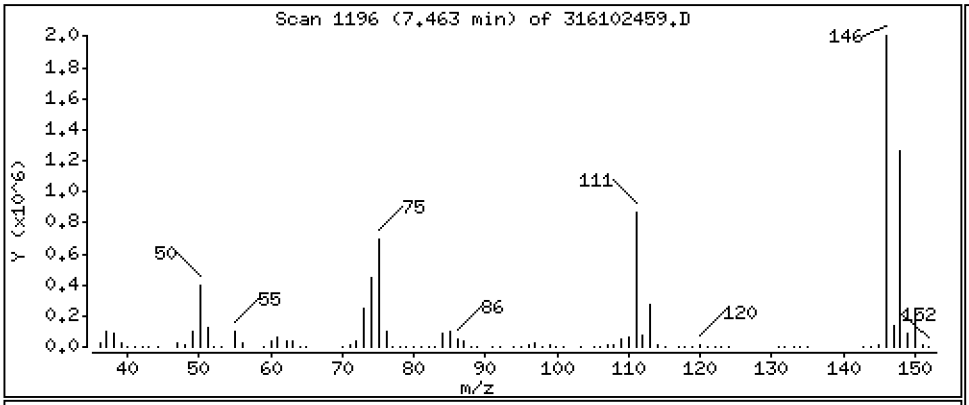
Client ID: Instrument: ms03.i

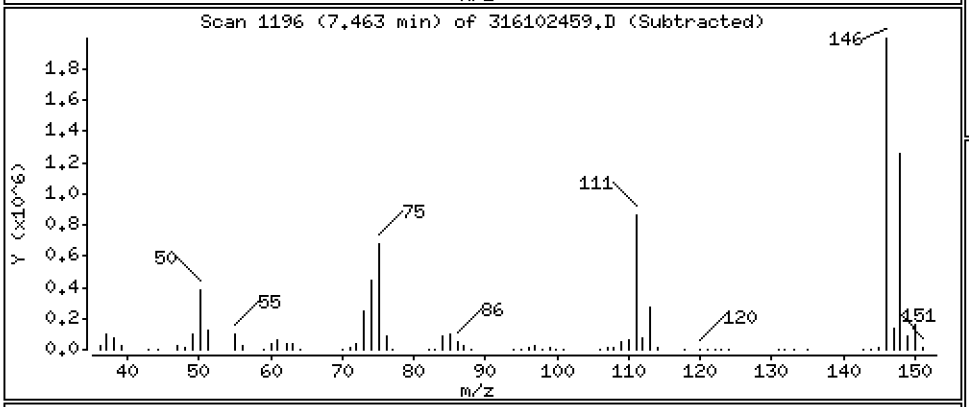
Sample Info: 1239;;1;1;6;;;

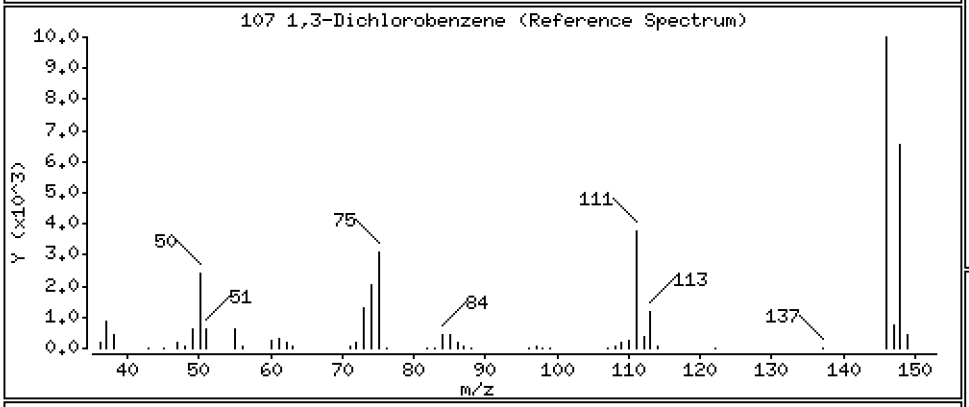
Purge Volume: 5.0 Operator: CJG

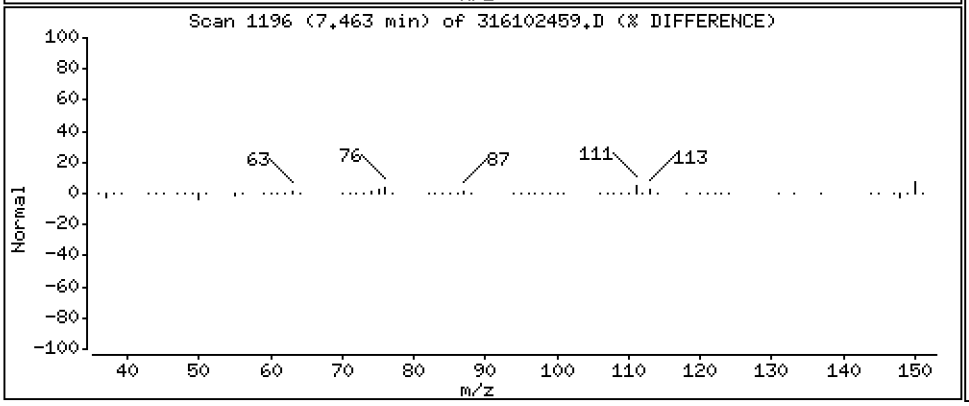
Column phase: DB-VRX Column diameter: 0.25

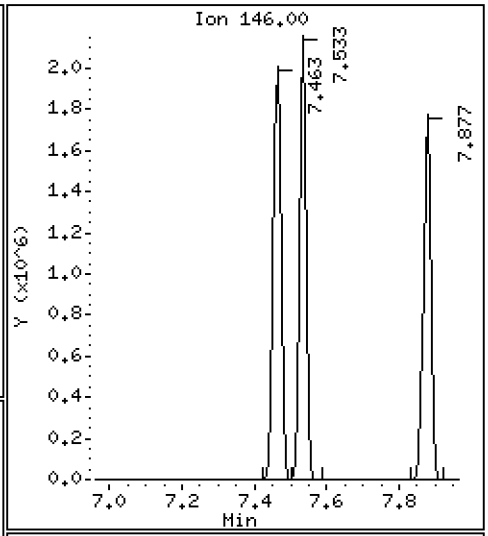
107 1,3-Dichlorobenzene Concentration: 199.899 ug/L

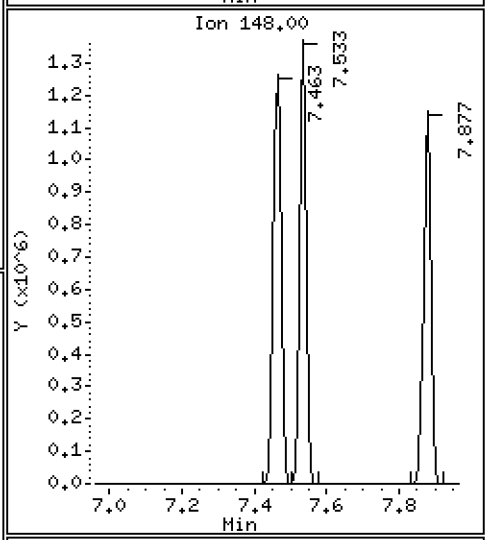


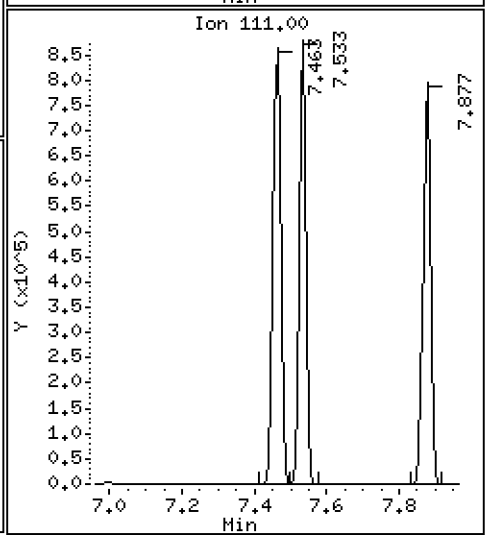












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 109

Date : 25-OCT-2016 01:36

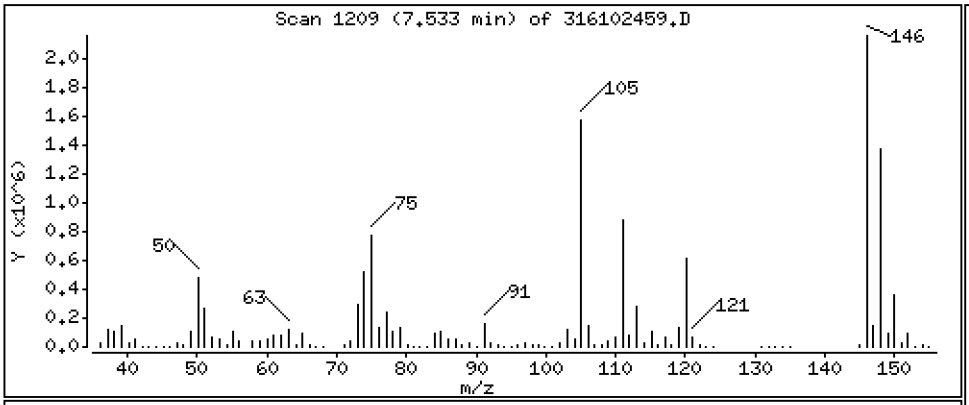
Client ID: Instrument: ms03.i

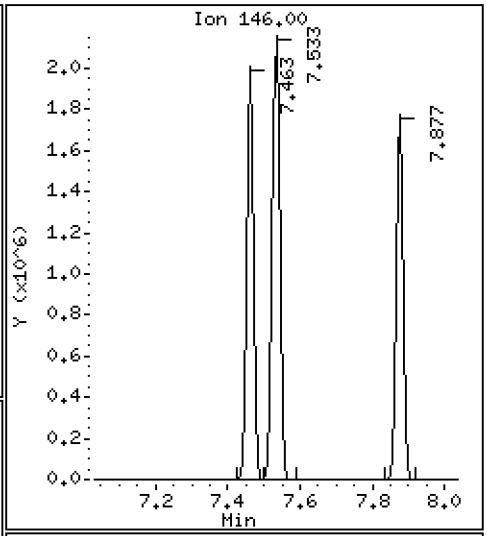
Sample Info: 1239;;1;1;6;;;

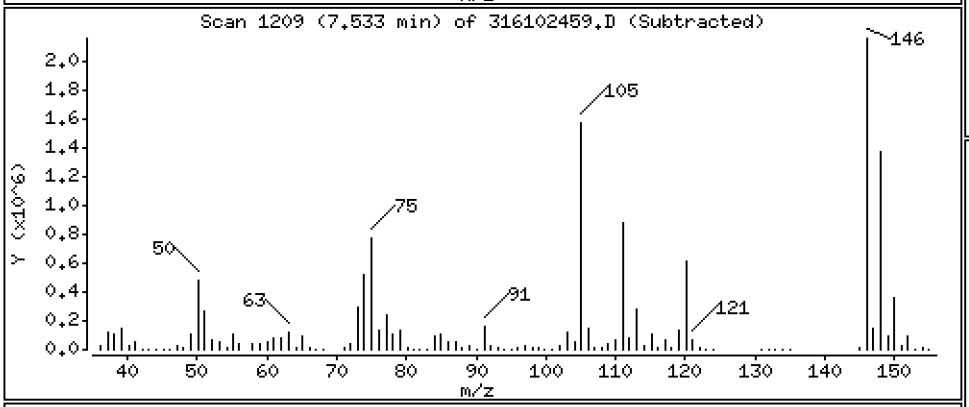
Purge Volume: 5.0 Operator: CJG

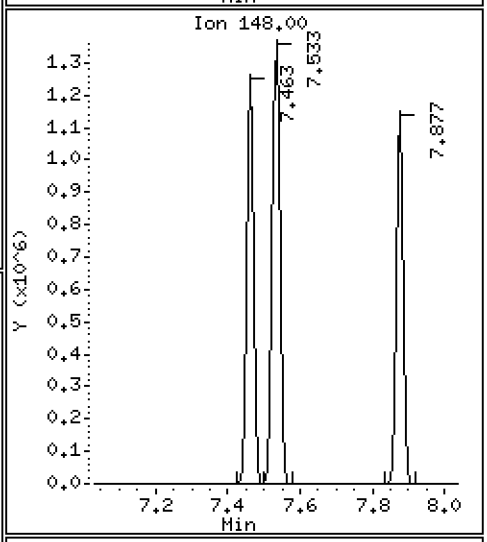
Column phase: DB-VRX Column diameter: 0.25

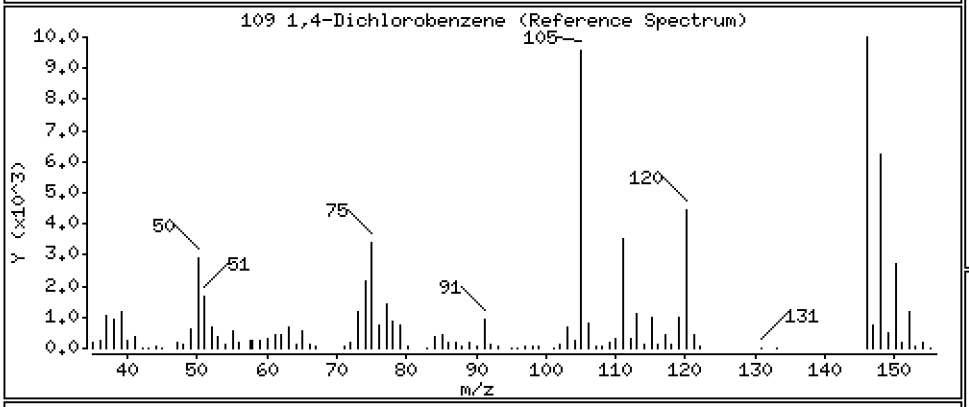
109 1,4-Dichlorobenzene Concentration: 199.953 ug/L

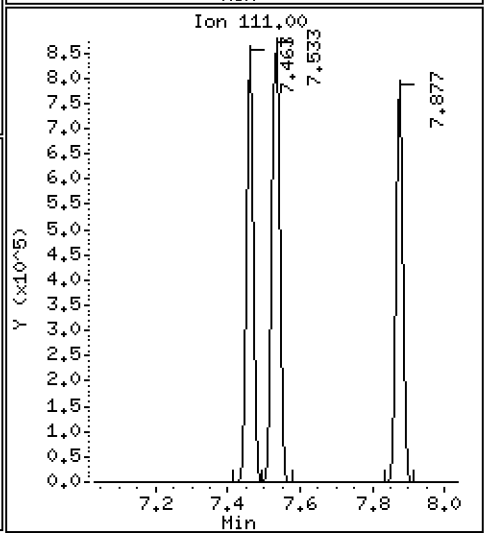


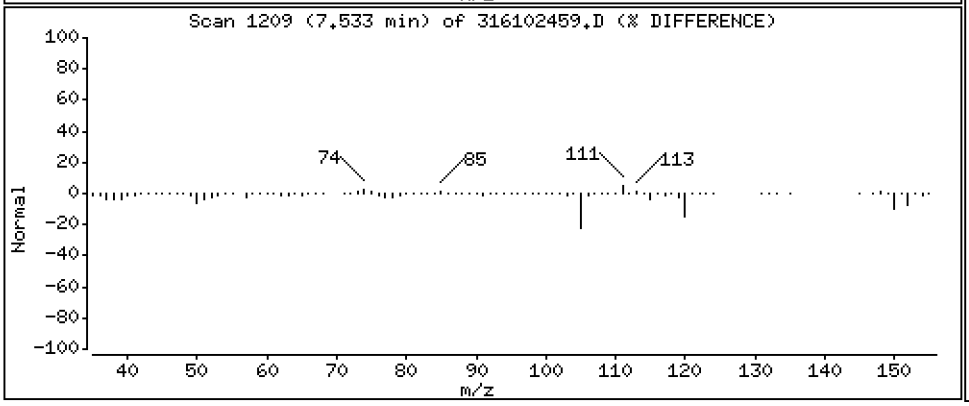












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 110

Date : 25-OCT-2016 01:36

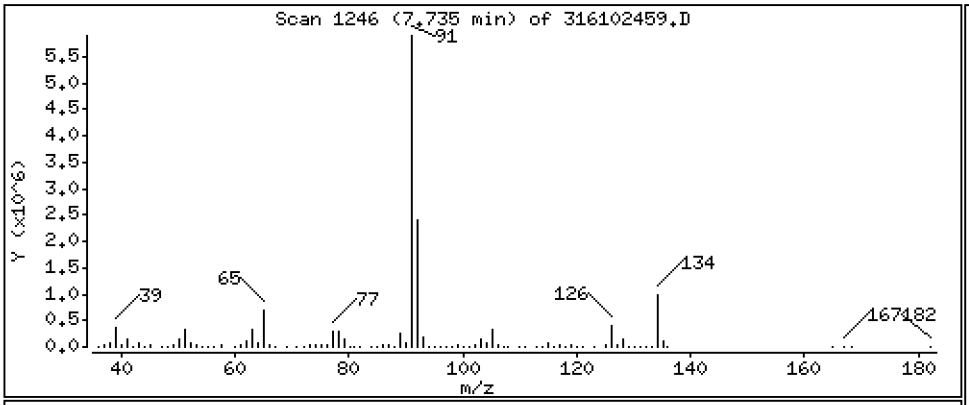
Client ID: Instrument: ms03.i

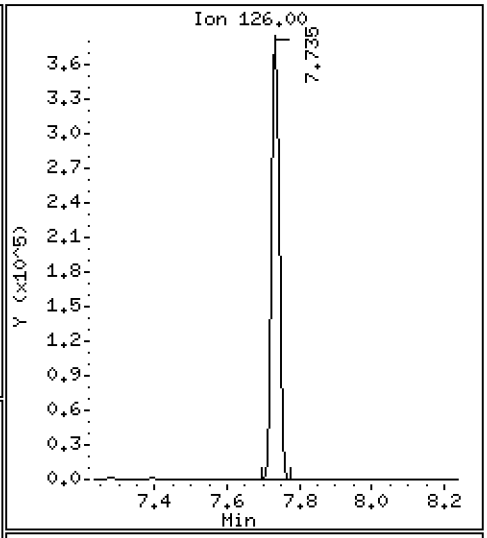
Sample Info: 1239;;1;1;6;;;

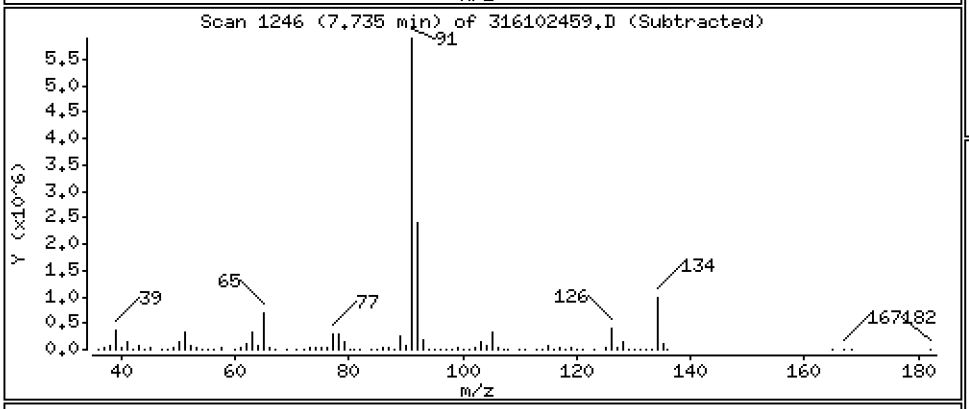
Purge Volume: 5.0 Operator: CJG

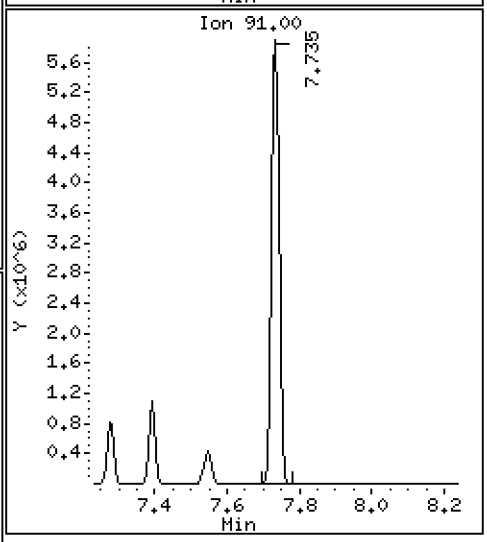
Column phase: DB-VRX Column diameter: 0.25

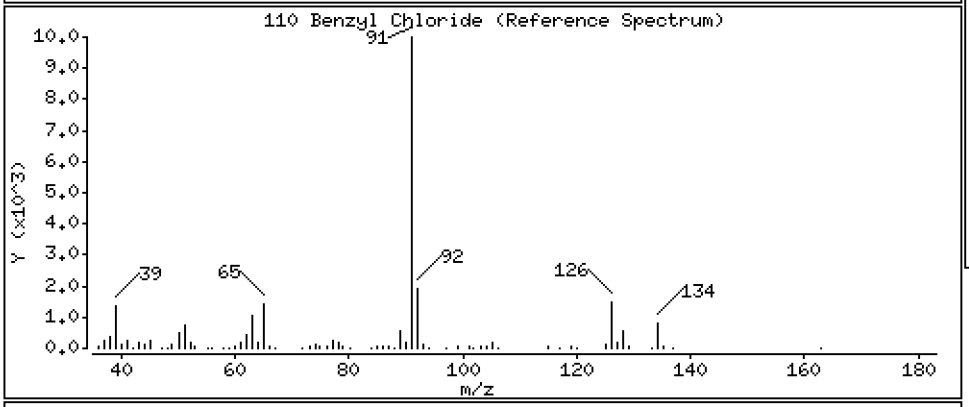
110 Benzyl Chloride Concentration: 199.646 ug/L

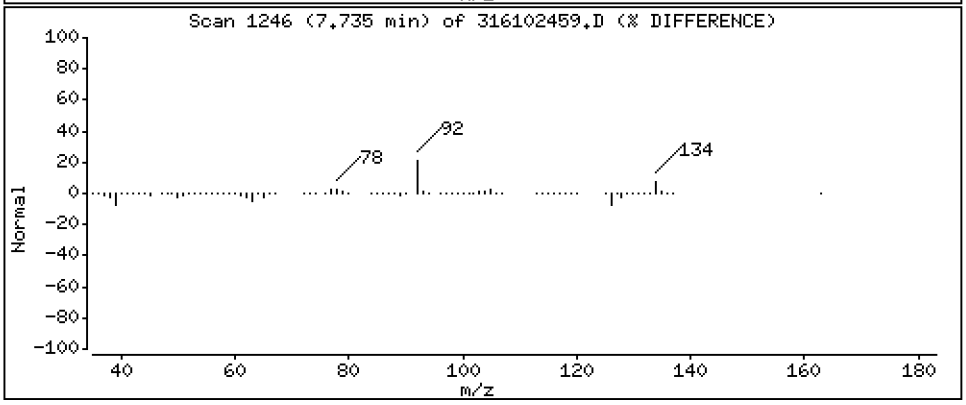












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 111

Date : 25-OCT-2016 01:36

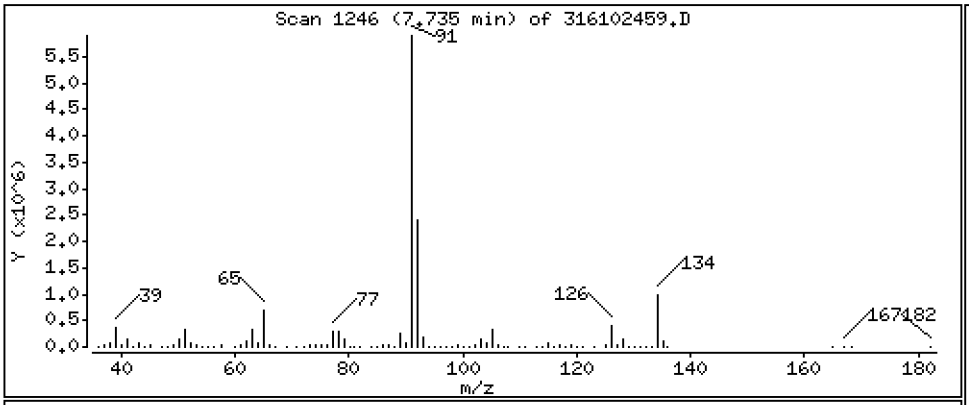
Client ID: Instrument: ms03.i

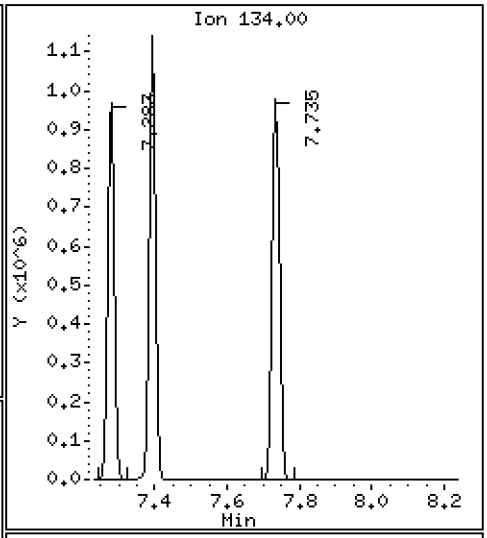
Sample Info: 1239;;1;1;6;;;

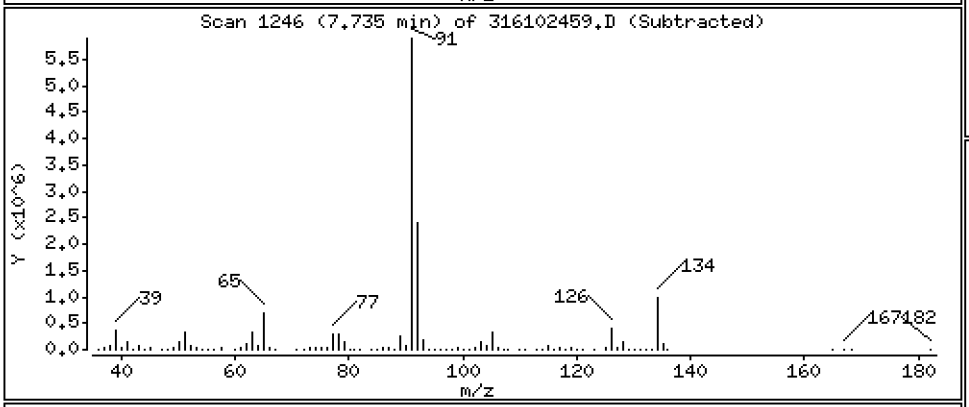
Purge Volume: 5.0 Operator: CJG

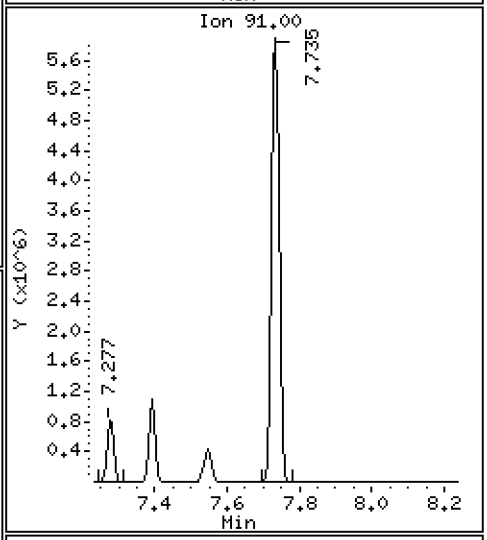
Column phase: DB-VRX Column diameter: 0.25

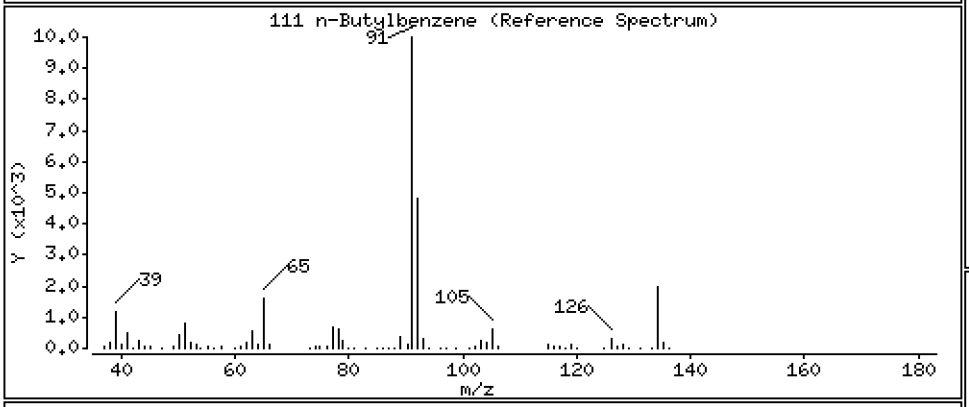
111 n-Butylbenzene Concentration: 199.764 ug/L

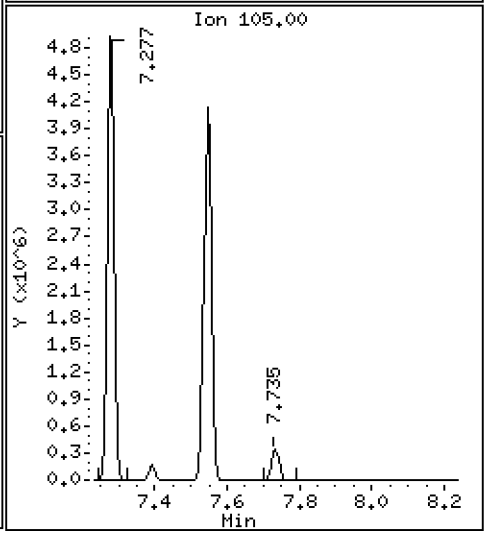


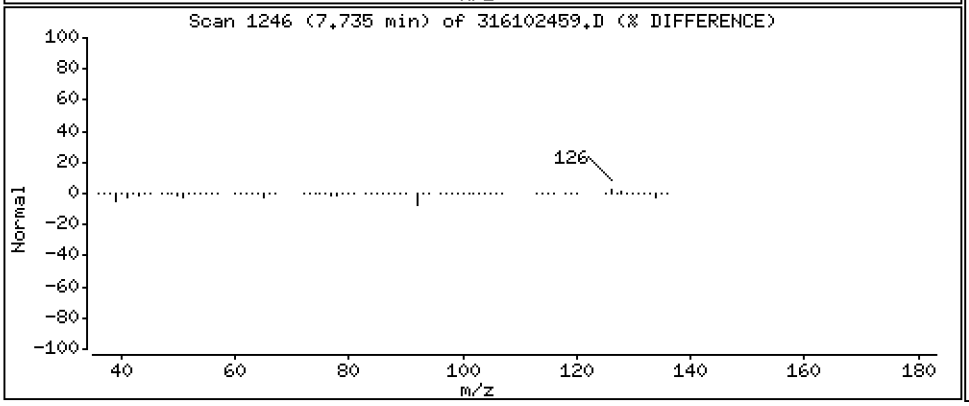












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 112

Date : 25-OCT-2016 01:36

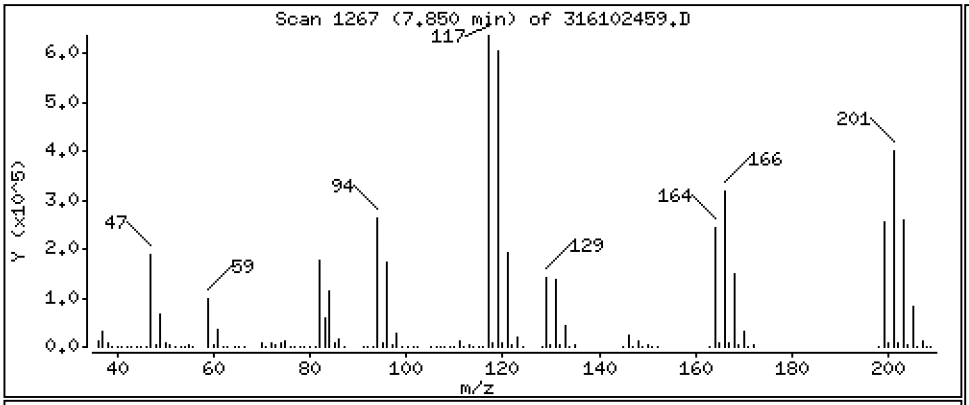
Client ID: Instrument: ms03.i

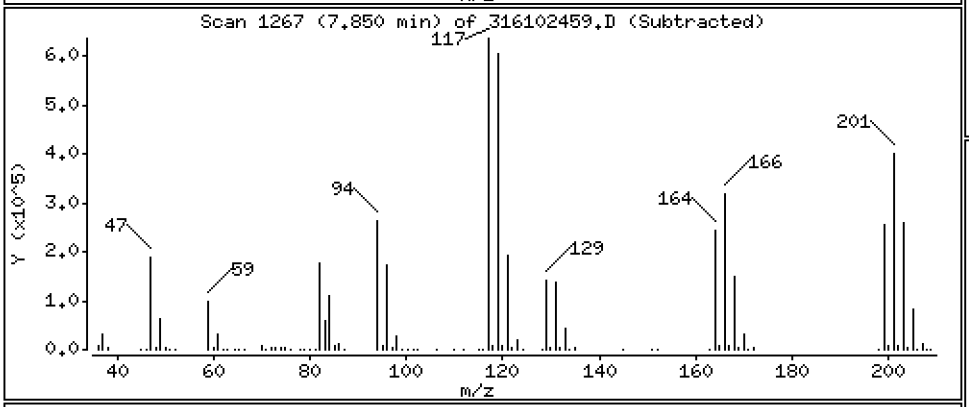
Sample Info: 1239;;1;1;6;;;

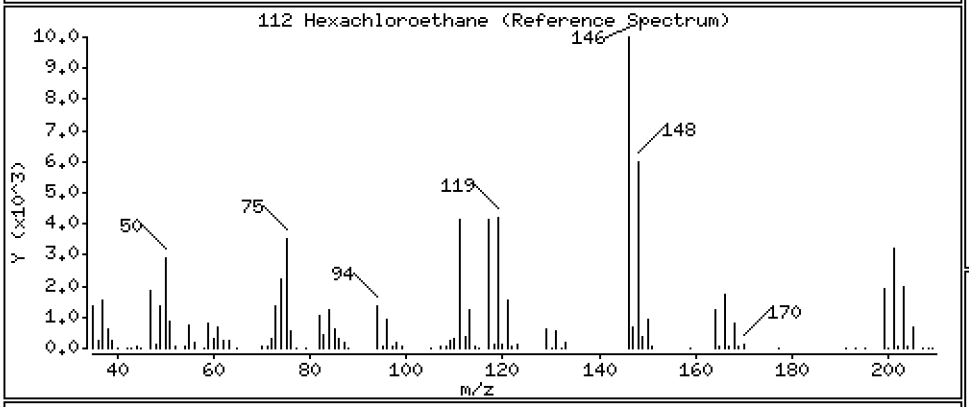
Purge Volume: 5.0 Operator: CJG

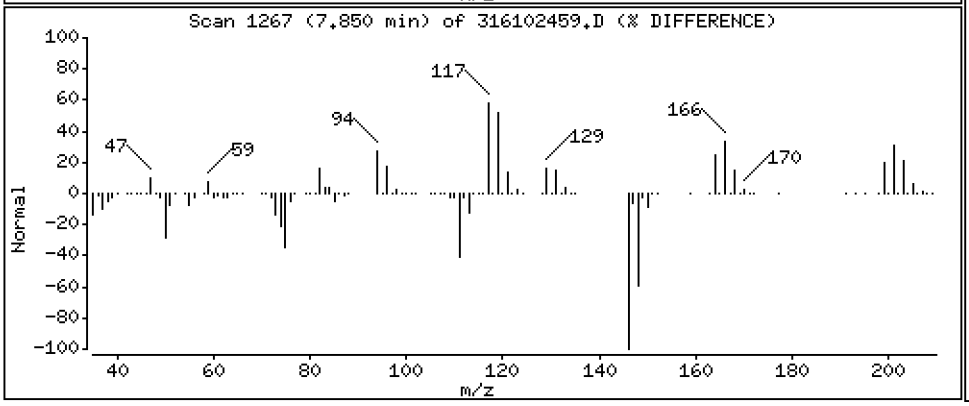
Column phase: DB-VRX Column diameter: 0.25

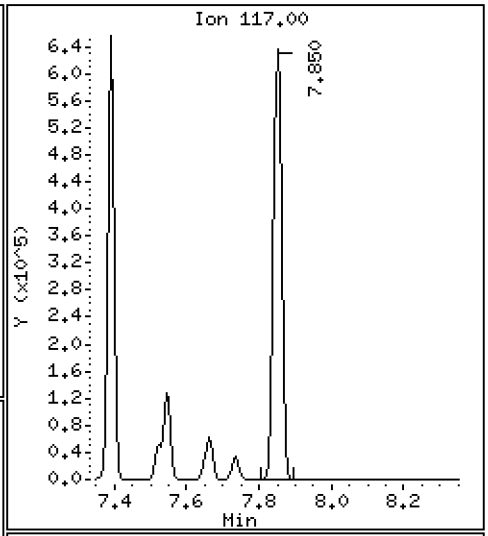
112 Hexachloroethane Concentration: 199.586 ug/L

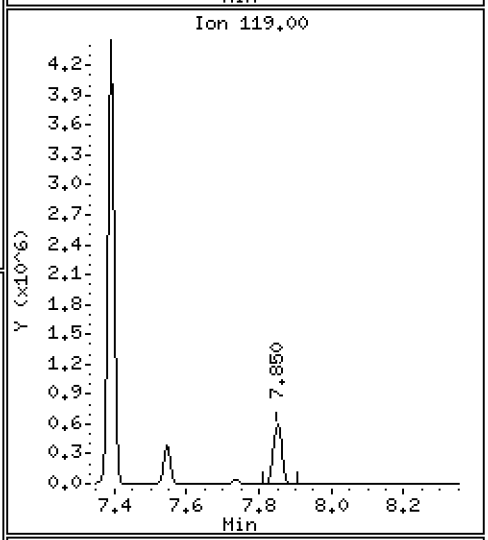


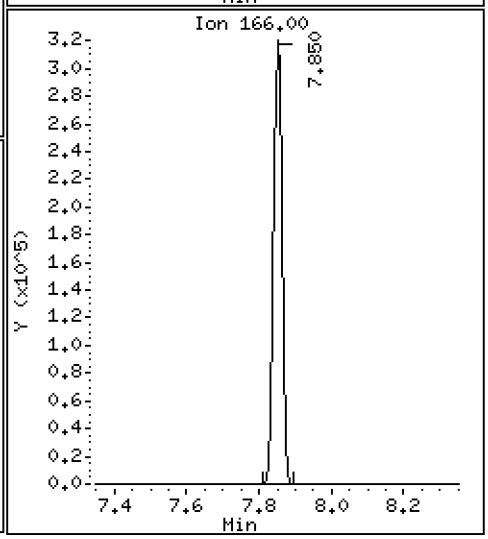












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 113

Date : 25-OCT-2016 01:36

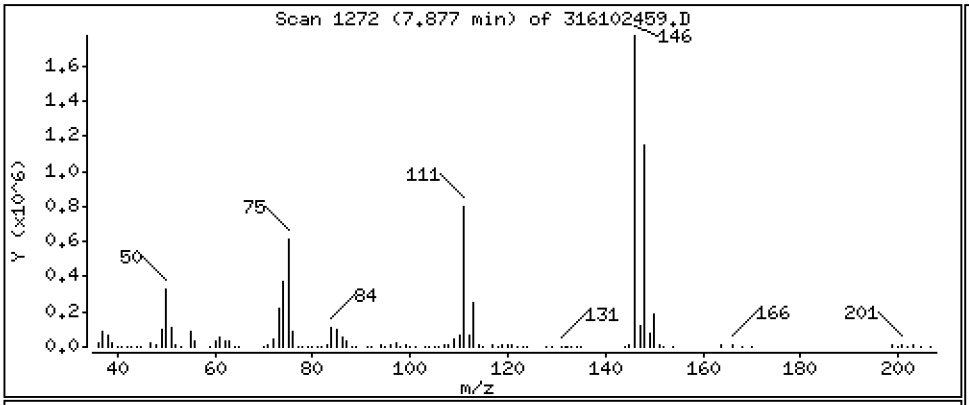
Client ID: Instrument: ms03.i

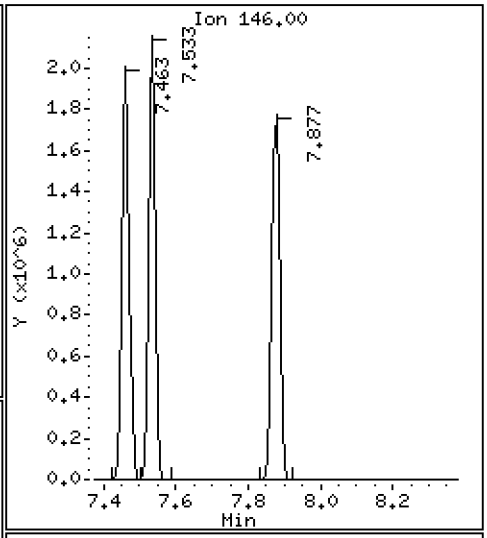
Sample Info: 1239;;1;1;6;;;

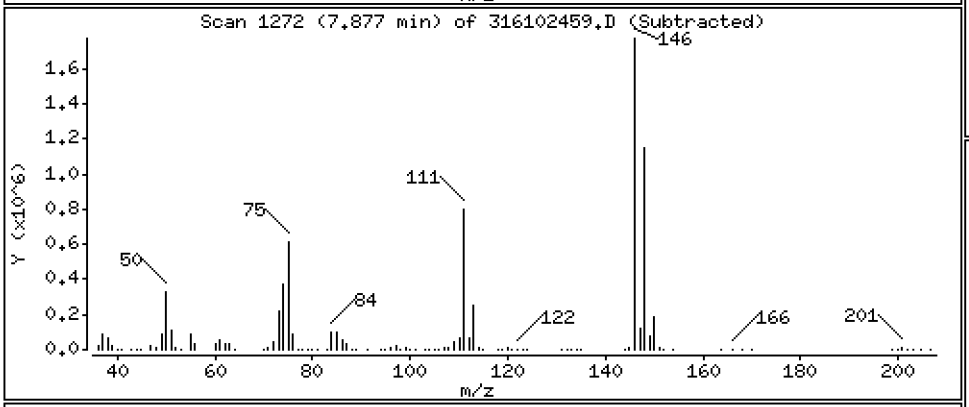
Purge Volume: 5.0 Operator: CJG

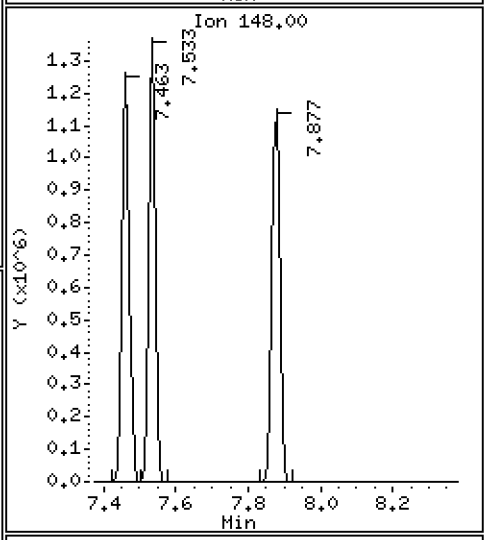
Column phase: DB-VRX Column diameter: 0.25

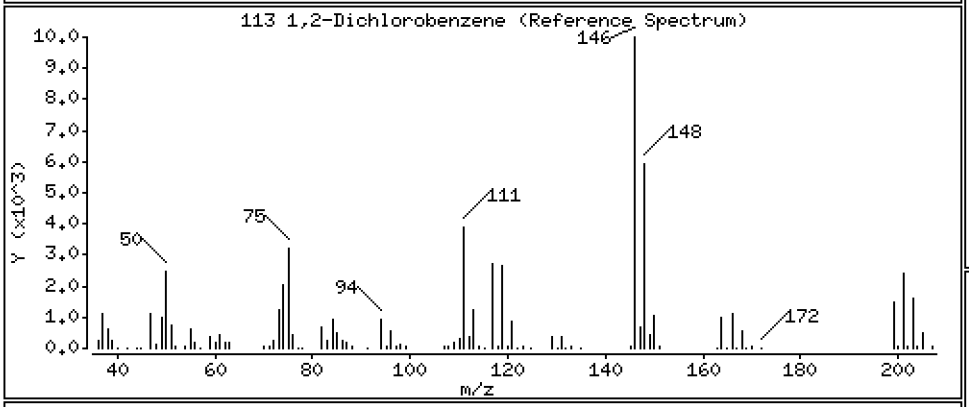
113 1,2-Dichlorobenzene Concentration: 199.939 ug/L

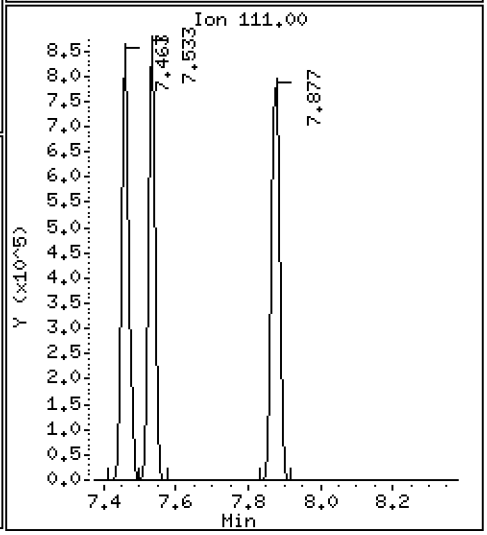


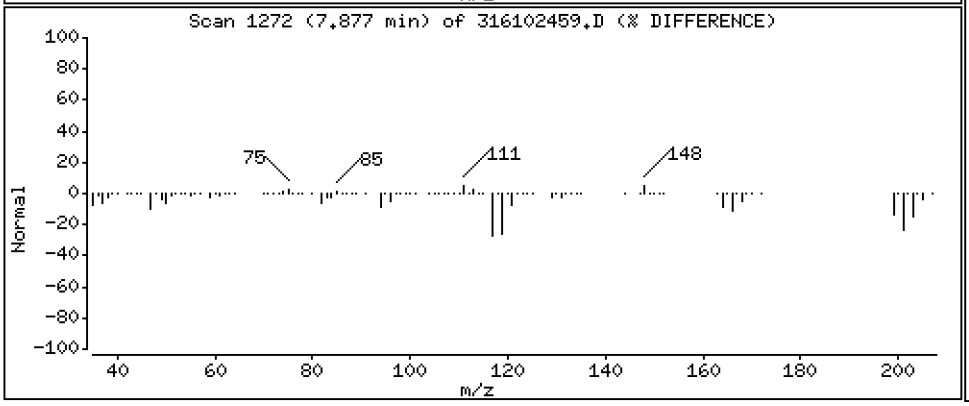












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 114

Date : 25-OCT-2016 01:36

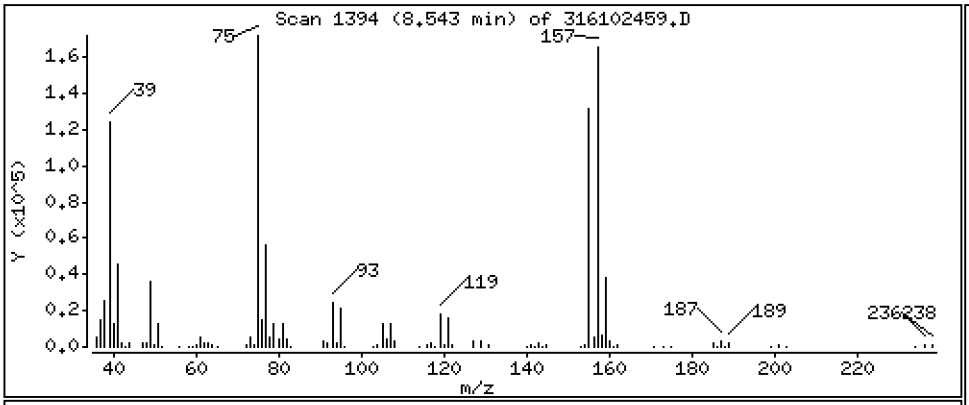
Client ID: Instrument: ms03.i

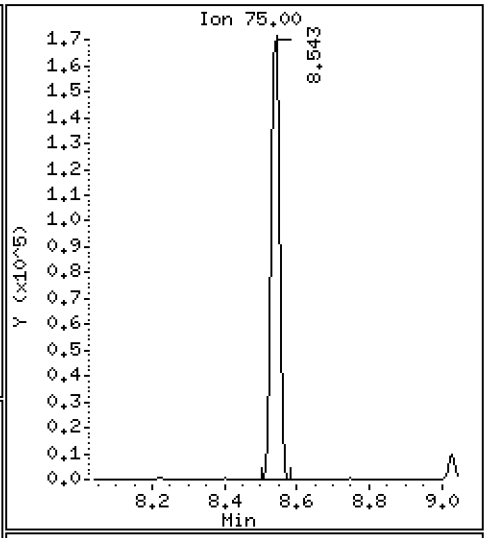
Sample Info: 1239;;1;1;6;;;

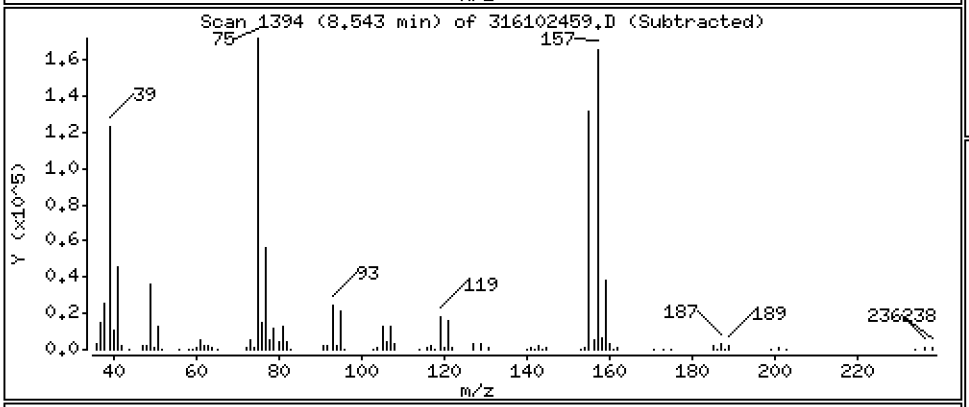
Purge Volume: 5.0 Operator: CJG

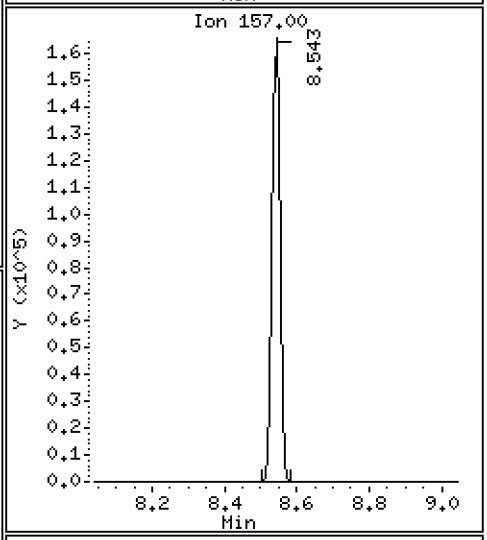
Column phase: DB-VRX Column diameter: 0.25

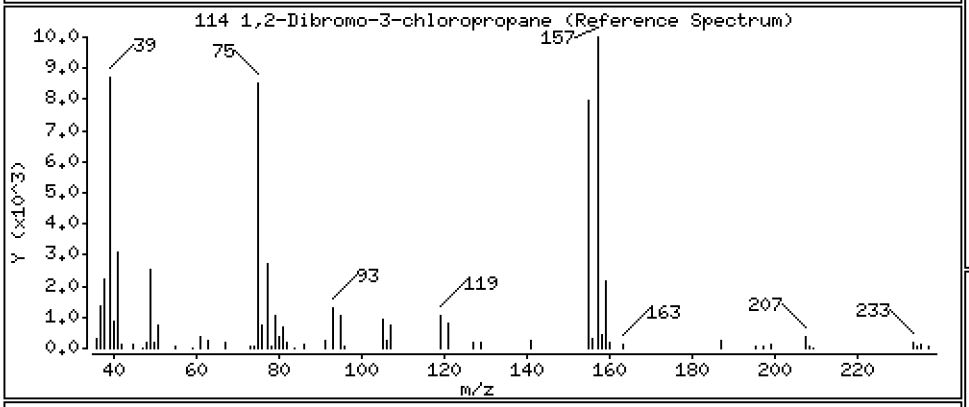
114 1,2-Dibromo-3-chloropropane Concentration: 199.950 ug/L

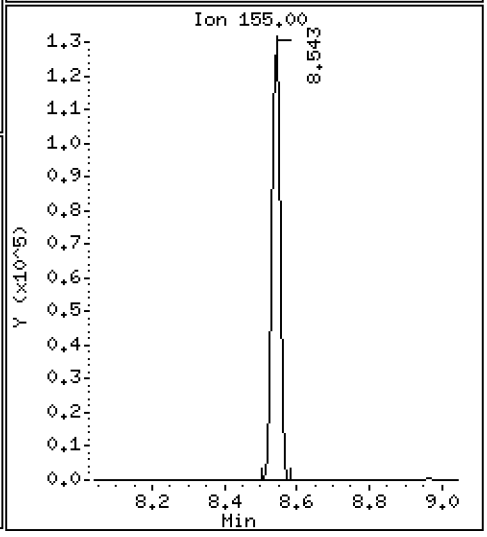


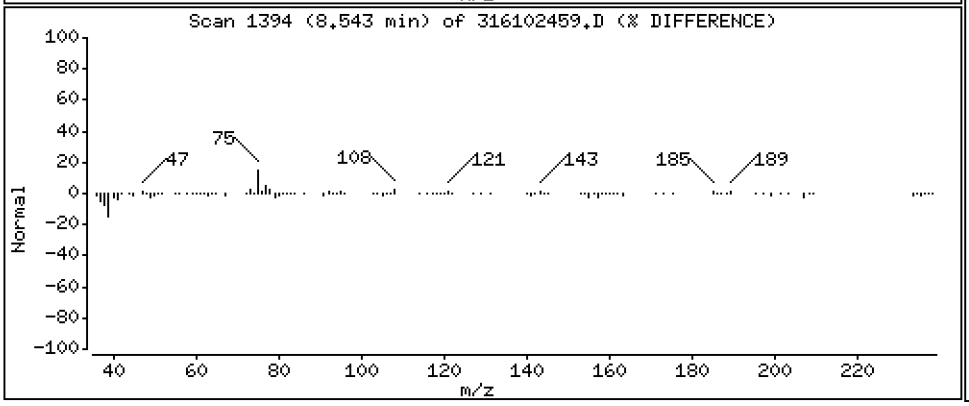












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 115

Date : 25-OCT-2016 01:36

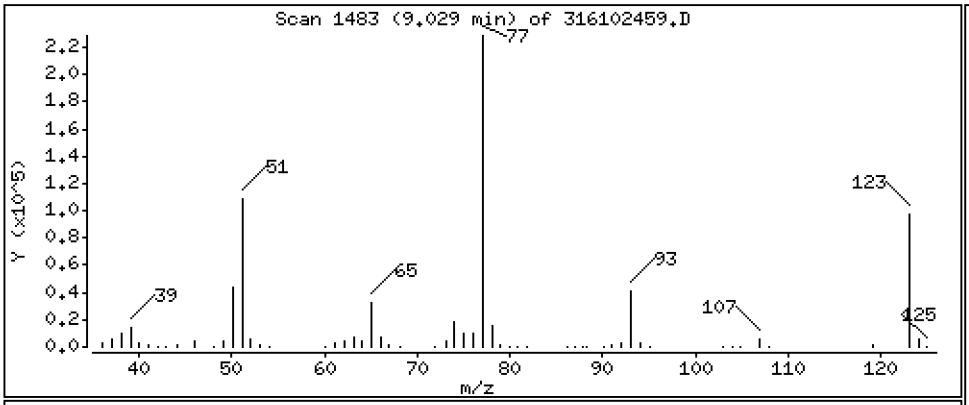
Client ID: Instrument: ms03.i

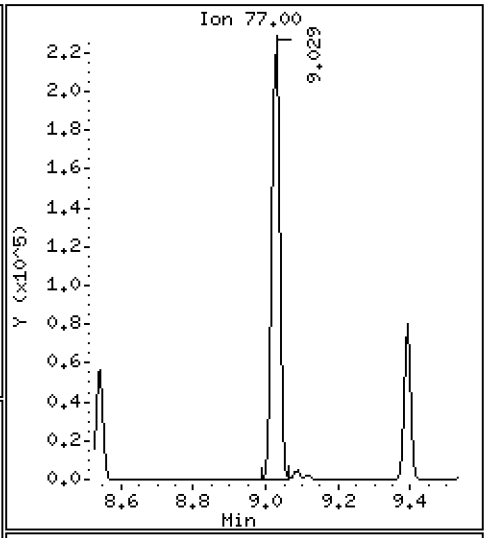
Sample Info: 1239;;1;1;6;;;

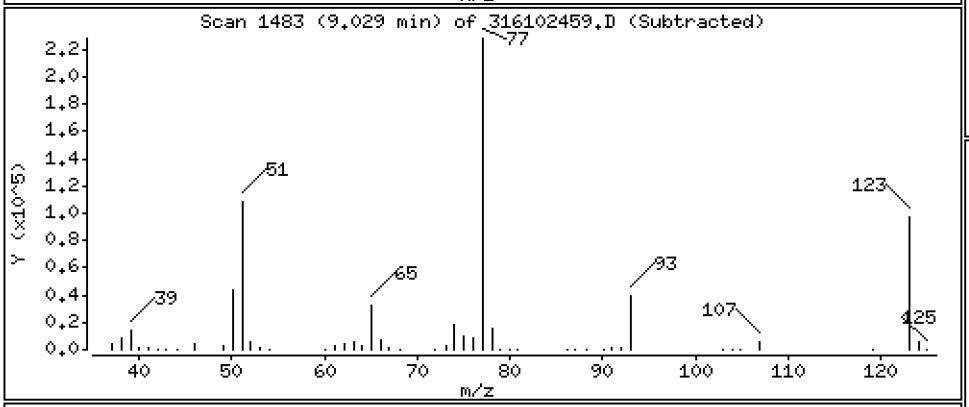
Purge Volume: 5.0 Operator: CJG

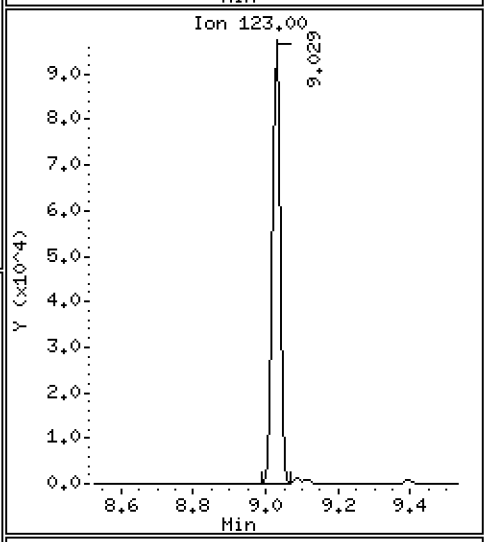
Column phase: DB-VRX Column diameter: 0.25

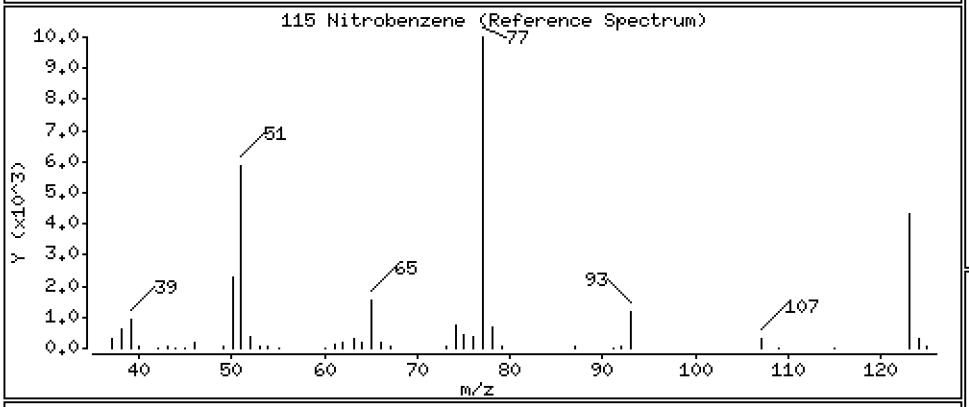
115 Nitrobenzene Concentration: 2002.92 ug/L

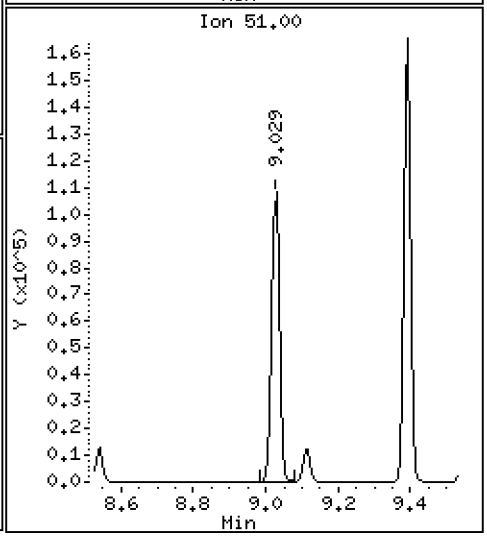


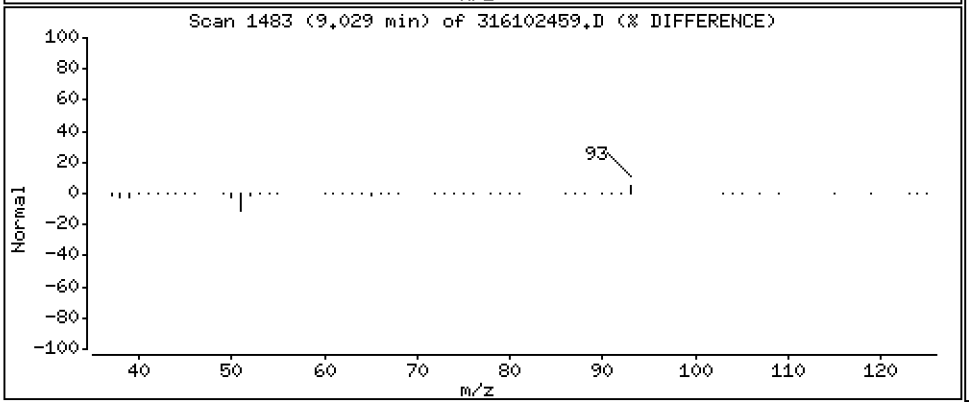












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 116

Date : 25-OCT-2016 01:36

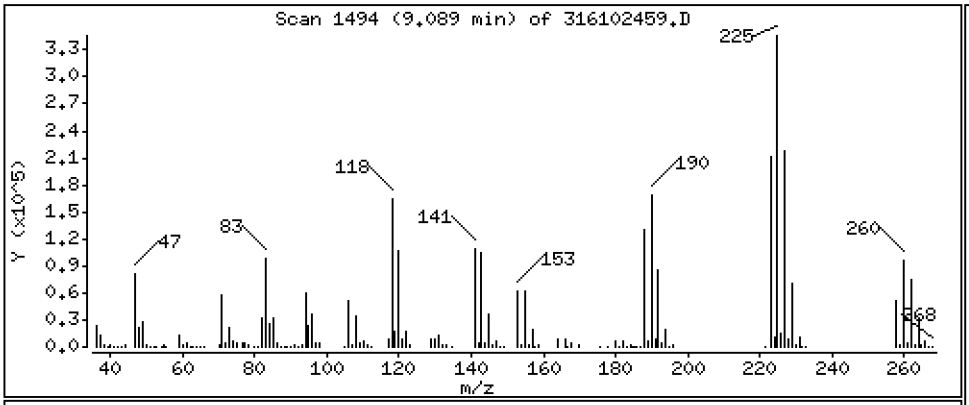
Client ID: Instrument: ms03.i

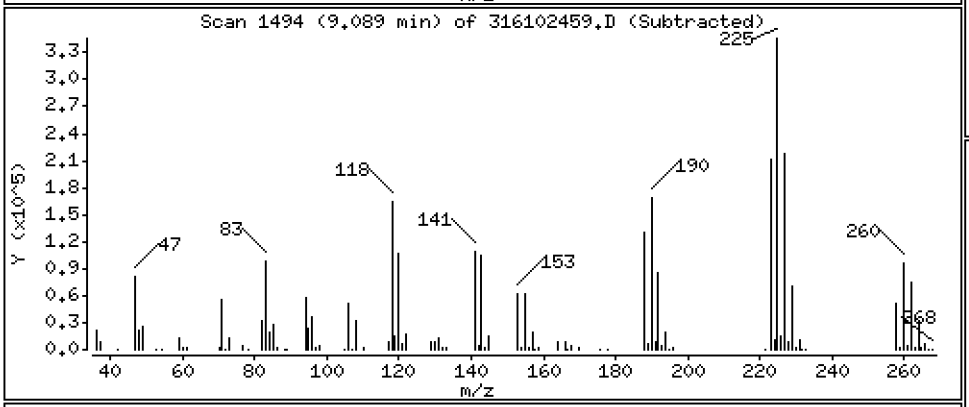
Sample Info: 1239;;1;1;6;;;

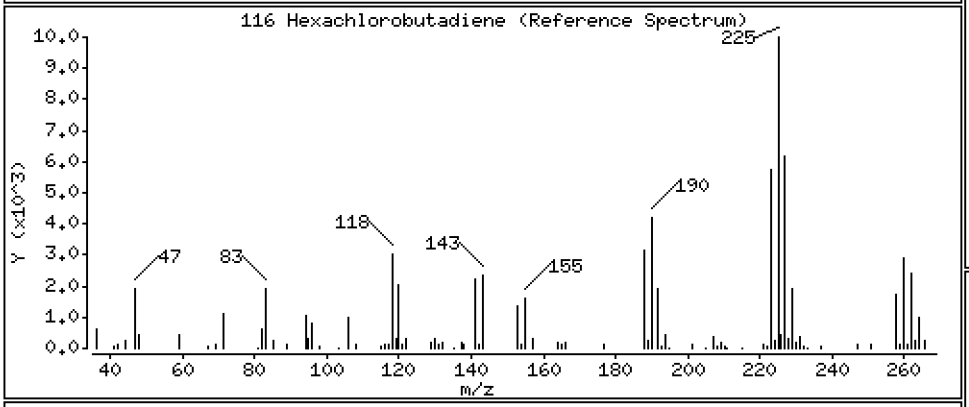
Purge Volume: 5.0 Operator: CJG

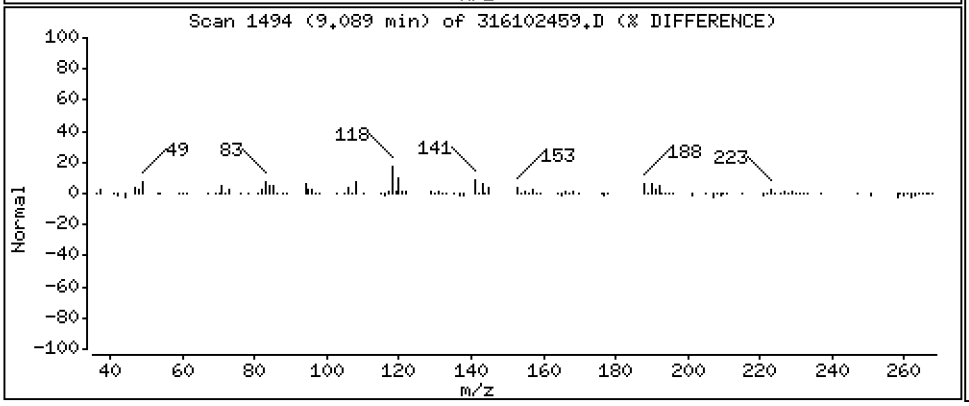
Column phase: DB-VRX Column diameter: 0.25

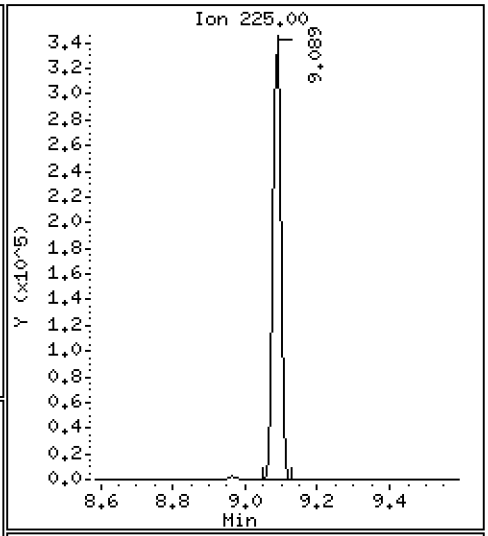
116 Hexachlorobutadiene Concentration: 199.837 ug/L

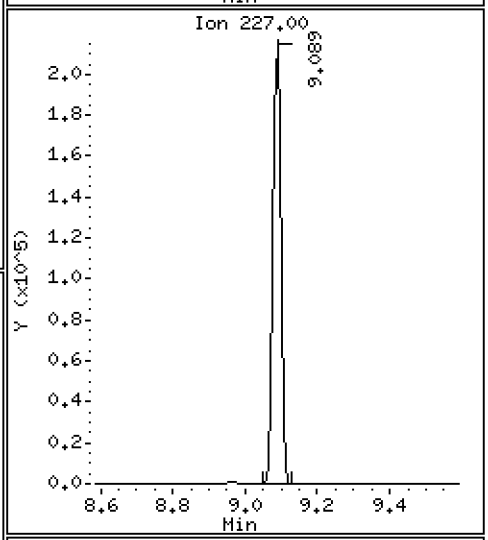


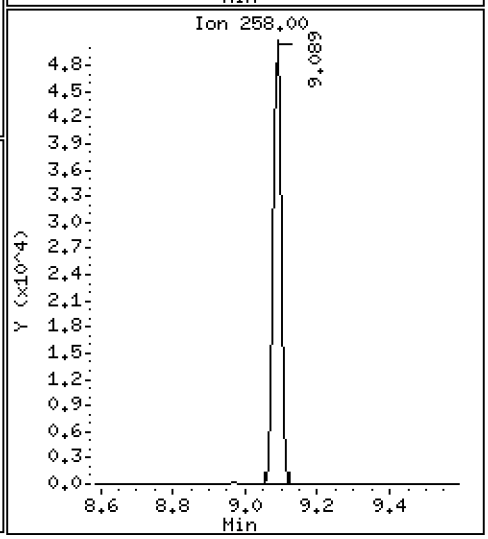












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 117

Date : 25-OCT-2016 01:36

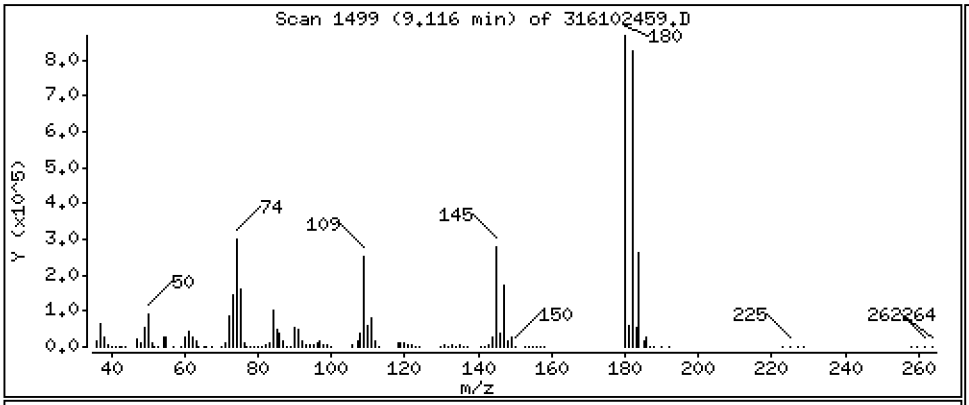
Client ID: Instrument: ms03.i

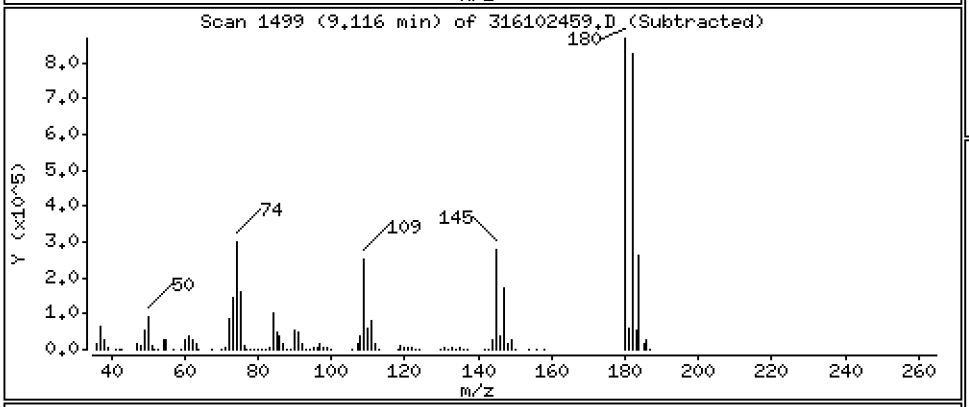
Sample Info: 1239;;1;1;6;;;

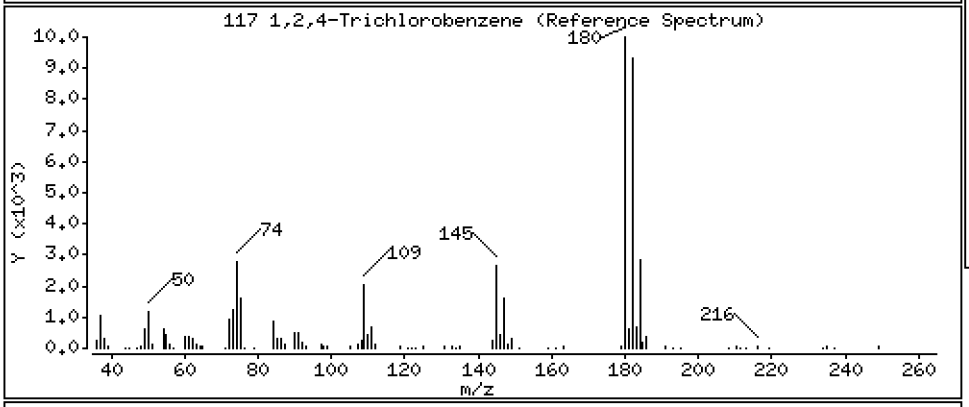
Purge Volume: 5.0 Operator: CJG

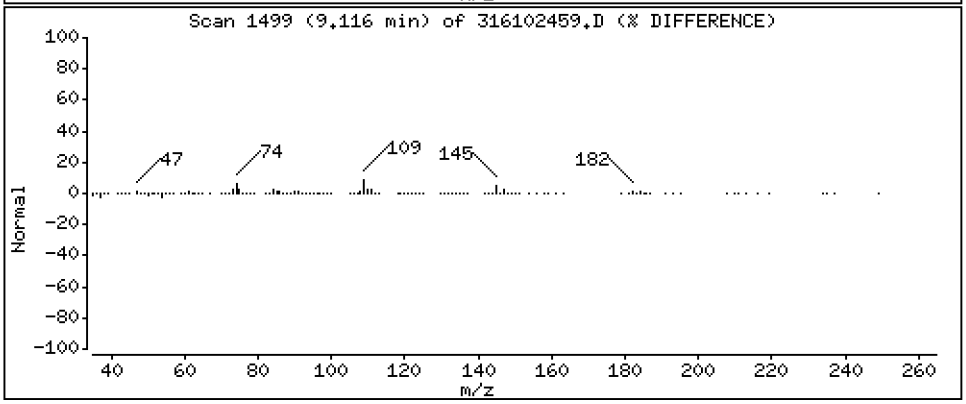
Column phase: DB-VRX Column diameter: 0.25

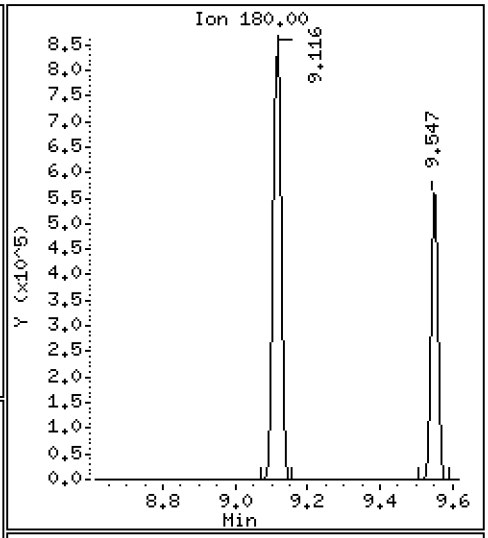
117 1,2,4-Trichlorobenzene Concentration: 199.807 ug/L

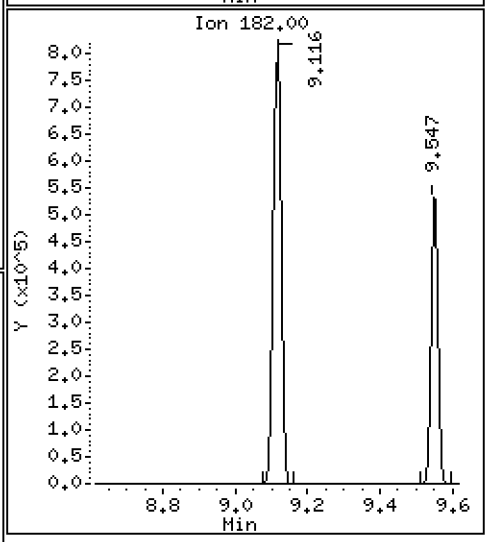












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 118

Date : 25-OCT-2016 01:36

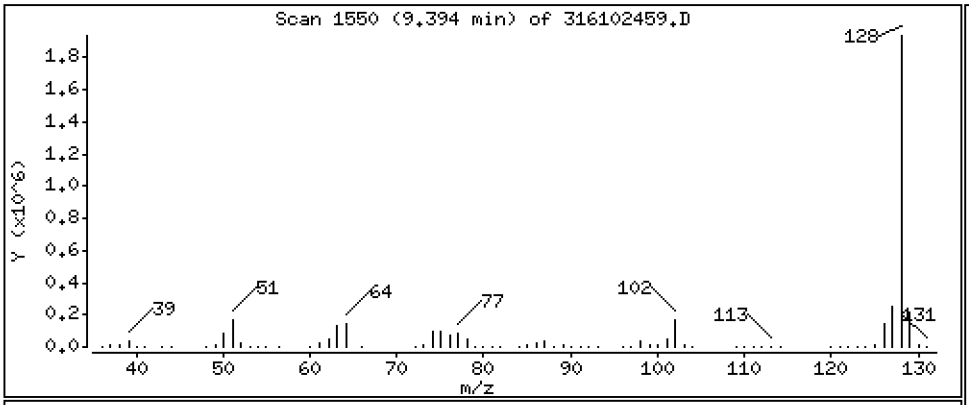
Client ID: Instrument: ms03.i

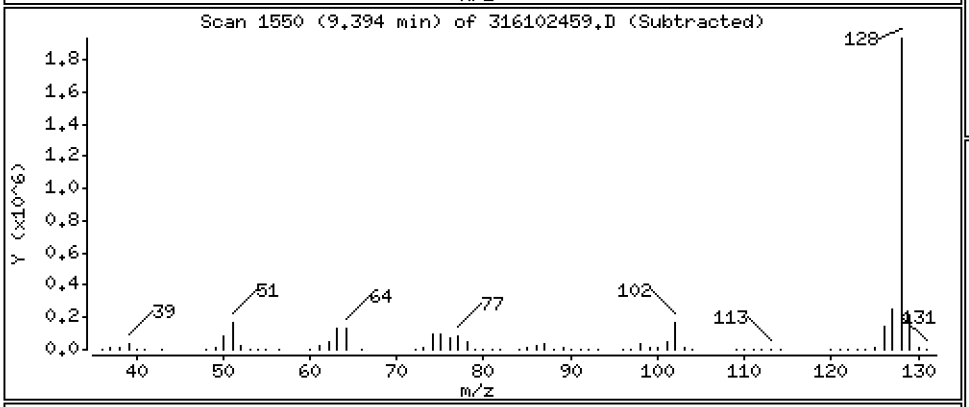
Sample Info: 1239;;1;1;6;;;

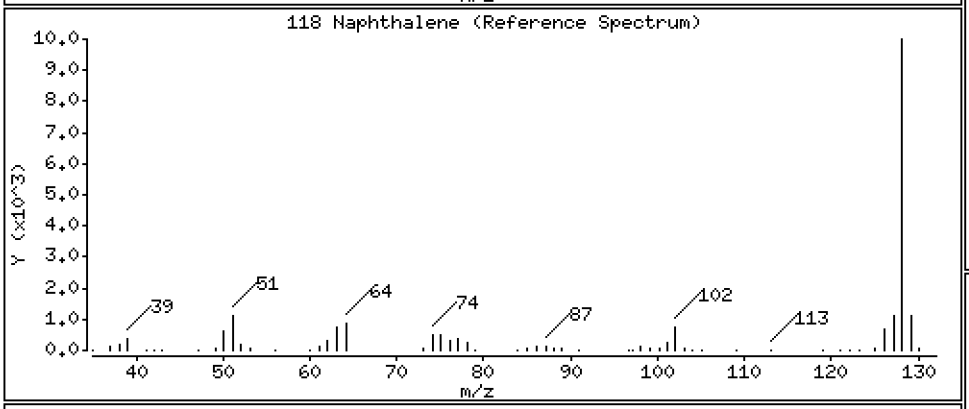
Purge Volume: 5.0 Operator: CJG

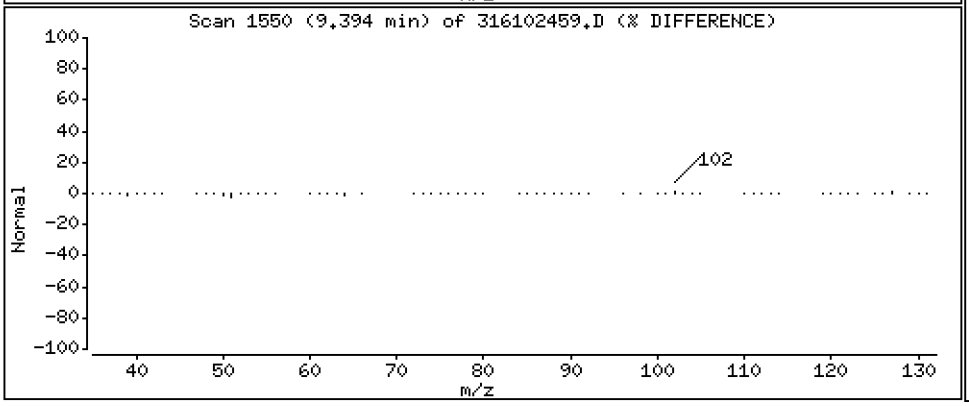
Column phase: DB-VRX Column diameter: 0.25

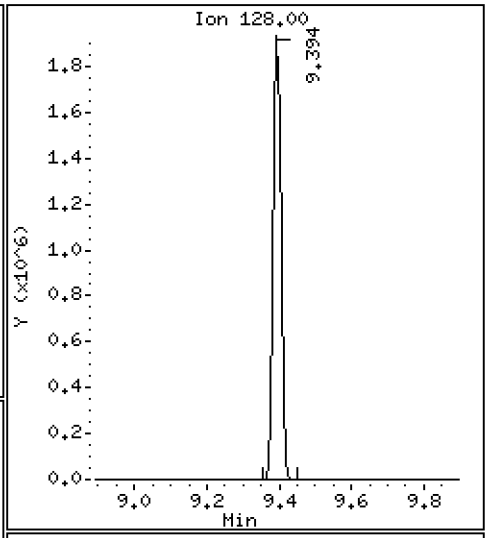
118 Naphthalene Concentration: 199.764 ug/L

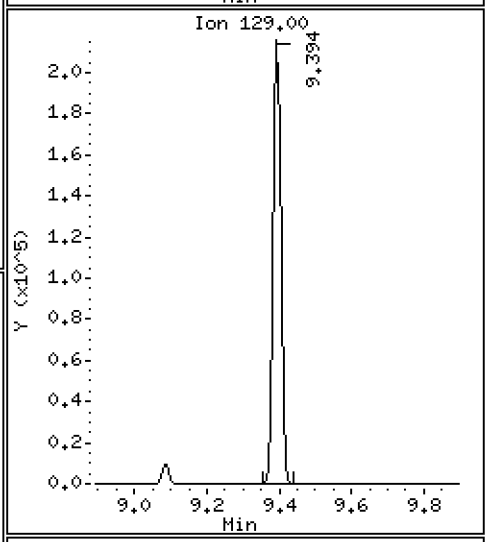


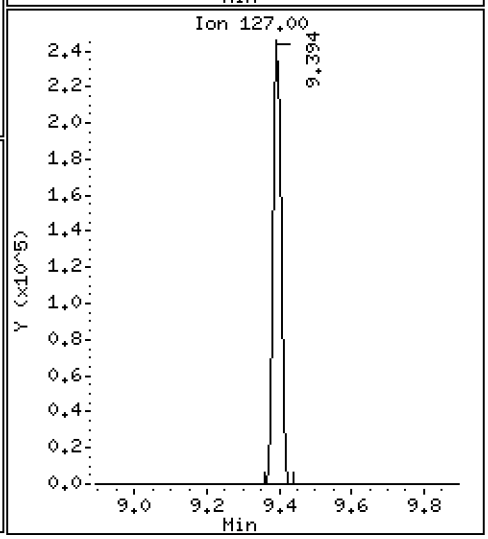












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102459.D Page 119

Date : 25-OCT-2016 01:36

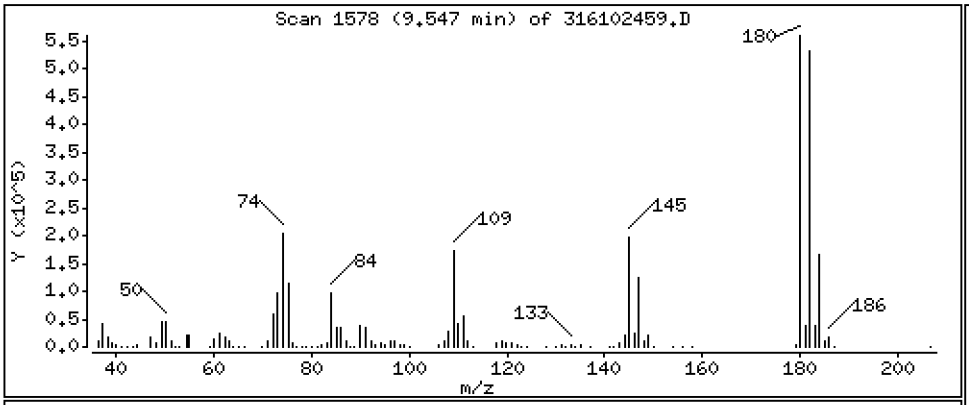
Client ID: Instrument: ms03.i

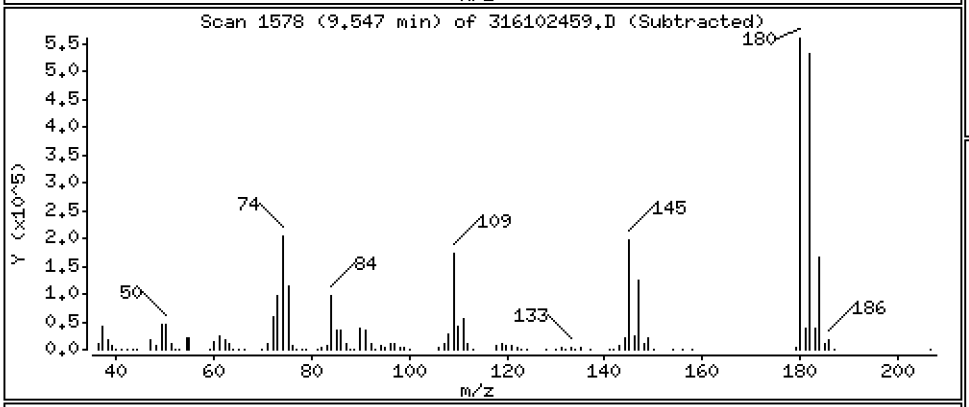
Sample Info: 1239;;1;1;6;;;

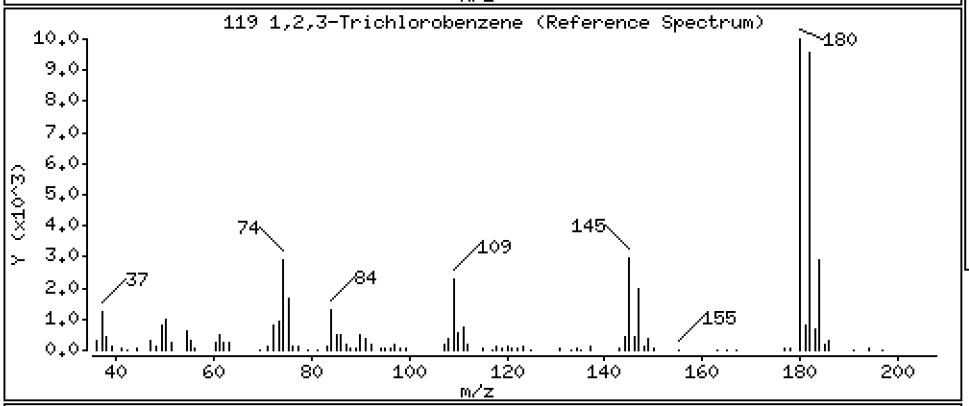
Purge Volume: 5.0 Operator: CJG

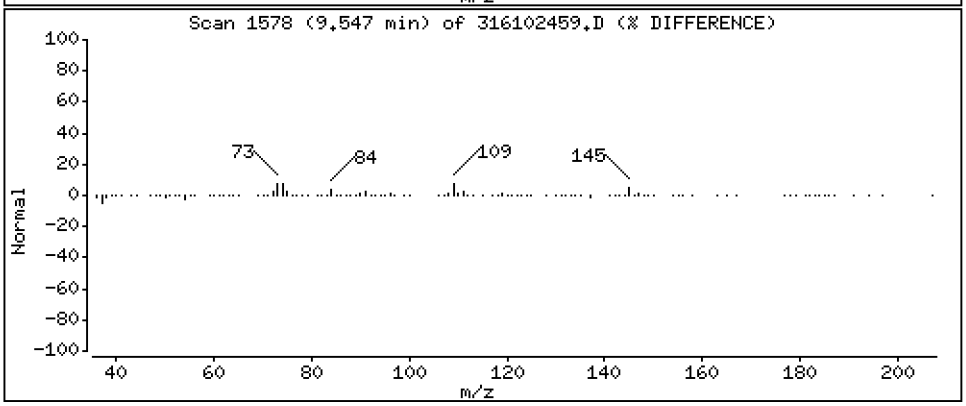
Column phase: DB-VRX Column diameter: 0.25

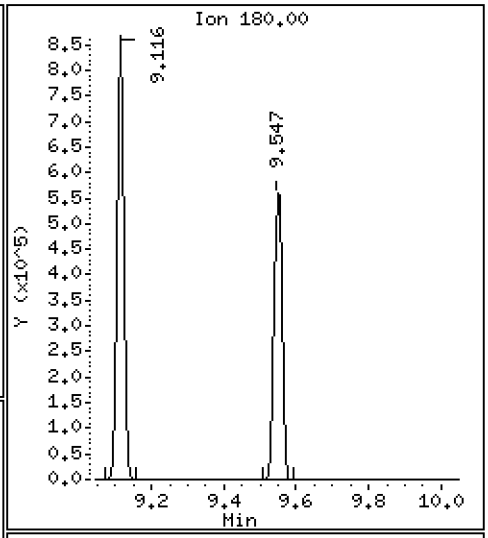
119 1,2,3-Trichlorobenzene Concentration: 200.065 ug/L

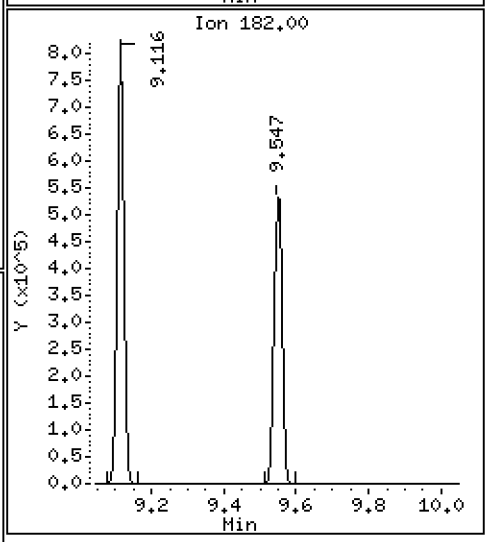










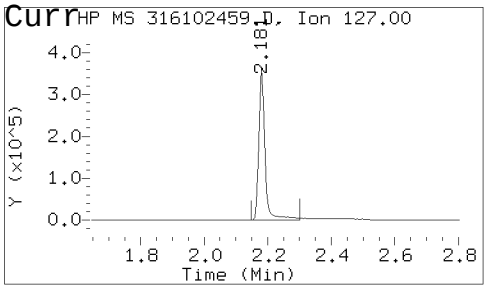


MANUAL INTEGRATION REPORT

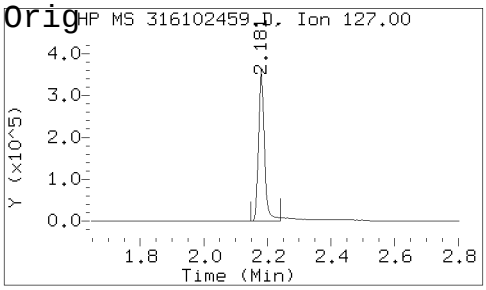
Report Date: 10/25/2016 10:12
Lab Sample ID: 1239 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102459.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102459.D
Injection Date: 25-OCT-2016 01:36 Operator: CJG

Iodomethane

Curr



Orig

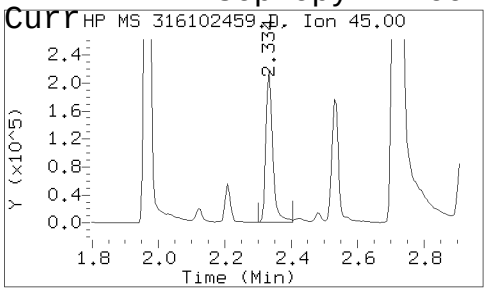


Curr. Area: 494749
Orig. Area: 472552

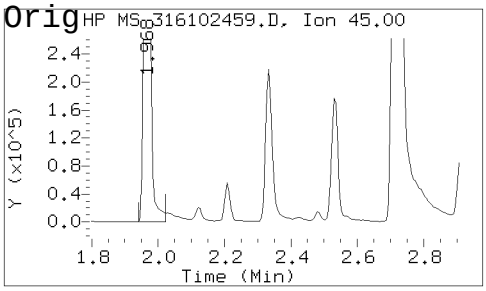
Curr. ON-COL: 199.511
Orig. ON-COL: 220.213

Isopropyl Alcohol

Curr



Orig

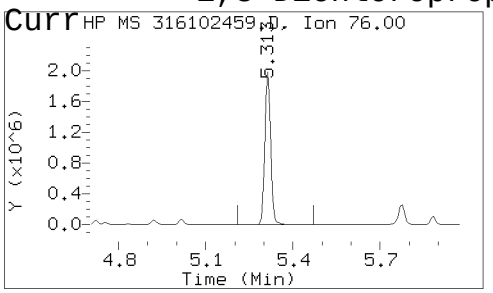


Curr. Area: 304769
Orig. Area: 1279417

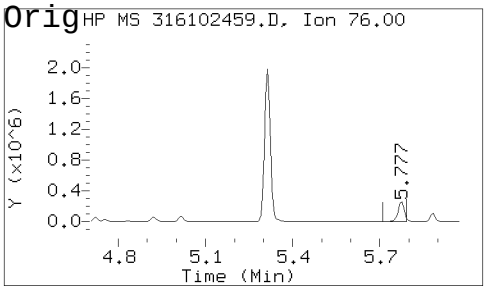
Curr. ON-COL: 1000.95
Orig. ON-COL: 2040.65

1,3-Dichloropropane

Curr



Orig



Curr. Area: 2738035
Orig. Area: 404131

Curr. ON-COL: 200.110
Orig. ON-COL: 41.2397

UNASSIGNED PEAK REPORT

Report Date: 10/25/2016 10:12
Lab Sample ID: 1239 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102459.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102459.D
Injection Date: 25-OCT-2016 01:36 Operator: CJG

Initial Calibration Verifications

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

2428716(LCS)

Lab Name: ALS Global **Contract:**

Lab Code: VOA **Case No.:** **SAS No.:** **SDG No.:** PQF-049

Matrix (soil/water): WATER **Lab Sample ID:** 2428716

Sample wt/vol: 5.00 (g/mL) ML **Lab File ID:** 316102464.D

Level (low/med): **Date Received:** 10/24/16

% Moisture: not dec. 100.0 **Date Analyzed:** 10/25/16

GC Column: RTXVRX **ID:** 0.25 (mm) **Dilution Factor:** 1.0

Soil Extract Volume: (uL) **Soil Aliquot Volume:** (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-65-0	tert.- Butyl Alcohol	106	

Data File: 316102464.D Page 1
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610246
Lab Smp Id: 2428716 Client Smp ID: LCS for HBN 174041
Inj Date : 25-OCT-2016 03:26
Operator : CJG Inst ID: ms03.i
Smp Info : 2428716;;1;3;;LCS;1;
Misc Info : ZZ VOMS 41243 D8260W
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b0
Meth Date : 25-Oct-2016 10:10 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.259	(0.332)	214327	16.4722	16.4722	
2 Chloromethane	50	1.389	1.390	(0.367)	220539	18.1857	18.1857	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	243536	18.7796	18.7796	
4 Bromomethane	94	1.640	1.646	(0.433)	77269	16.5690	16.5690	
5 Chloroethane	64	1.711	1.723	(0.452)	165979	20.7272	20.7272	
6 Pentane	41	1.787	1.794	(0.472)	167132	24.2068	24.2068(R)	
7 Trichlorofluoromethane	101	1.793	1.799	(0.473)	296945	20.3482	20.3482	
8 Dichlorofluoromethane	67	1.826	1.826	(0.482)	370541	19.0282	19.0282	
9 Ethyl Ether	74	1.967	1.968	(0.519)	119560	18.4606	18.4606	
10 1,1-Dichloroethene	61	2.088	2.088	(0.551)	246630	18.3179	18.3179	
12 Carbon Disulfide	76	2.115	2.121	(0.558)	368821	16.0581	16.0581	
11 Freon 113	101	2.098	2.105	(0.554)	148280	19.5274	19.5274	
13 Iodomethane	127	2.175	2.181	(0.574)	16871	11.4797	11.4797(QR)	
14 Acrolein	56	2.273	2.274	(0.600)	185110	146.427	146.427	
16 3-Chloro-1-propene	41	2.344	2.345	(0.619)	216062	19.2624	19.2624	
15 Isopropyl Alcohol	45	2.333	2.334	(0.616)	33486	116.280	116.280	
17 Methylene Chloride	84	2.399	2.405	(0.633)	175991	19.4470	19.4470	
18 Acetone	58	2.426	2.427	(0.640)	67377	96.5141	96.5141	
19 Methyl acetate	74	2.480	2.481	(0.655)	26852	19.3839	19.3839	
20 trans-1,2-Dichloroethene	61	2.486	2.487	(0.656)	243837	18.6329	18.6329	
21 Hexane	57	2.519	2.519	(0.665)	354411	19.2294	19.2294	

Data File: 316102464.D Page 2
Report Date: 25-Oct-2016 10:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
22 Methyl t-Butyl Ether	73	2.529	2.530	(0.667)	404818	17.9253	17.9253	
23 tert.- Butyl Alcohol	59	2.568	2.563	(0.678)	51408	105.771	105.771	
24 Acetonitrile	41	2.682	2.683	(0.708)	78788	107.445	107.445	
25 Diisopropyl ether	45	2.720	2.721	(0.718)	556397	18.8231	18.8231	
26 Chloroprene	53	2.797	2.798	(0.738)	260380	20.1785	20.1785	
27 1,1-Dichloroethane	63	2.813	2.814	(0.742)	315735	18.5318	18.5318	
28 Acrylonitrile	53	2.841	2.841	(0.750)	285392	92.5228	92.5228	
30 n-Propanol	41	2.911	2.912	(0.768)	107252	203.656	203.656(Q)	
29 Ethyl tert-butyl ether	59	2.911	2.912	(0.768)	465849	18.5667	18.5667	
31 Vinyl acetate	86	2.928	2.929	(0.773)	30412	16.3116	16.3116(Q)	
32 cis-1,2-Dichloroethene	61	3.097	3.098	(0.817)	237698	18.1745	18.1745	
33 2,2-Dichloropropane	77	3.157	3.158	(0.833)	165736	16.1713	16.1713	
M 100 1,2-Dichloroethene, Total	61				481535	36.8074	36.8074	
34 Bromochloromethane	128	3.206	3.207	(0.846)	67479	18.5457	18.5457	
35 Cyclohexane	84	3.212	3.212	(0.847)	271327	19.3069	19.3069	
36 Chloroform	83	3.233	3.234	(0.853)	312455	19.4891	19.4891	
37 Ethyl acetate	43	3.282	3.278	(0.866)	147618	19.7207	19.7207	
38 Methyl acrylate	55	3.293	3.294	(0.869)	135188	18.6211	18.6211	
39 Carbon Tetrachloride	117	3.321	3.321	(0.876)	168448	18.7837	18.7837	
40 Tetrahydrofuran	42	3.332	3.327	(0.879)	218403	92.0853	92.0853	
$ 41 Dibromofluoromethane	113	3.337	3.338	(0.881)	176953	25.1714	25.1714	
42 1,1,1-Trichloroethane	97	3.359	3.360	(0.886)	226786	18.9740	18.9740	
43 2-Butanone	72	3.397	3.398	(0.896)	96313	95.2665	95.2665	
44 1,1-Dichloropropene	75	3.424	3.425	(0.904)	238871	18.9055	18.9055	
45 1-Chlorobutane	41	3.446	3.447	(0.909)	189682	20.7033	20.7033	
46 Heptane	71	3.512	3.512	(0.927)	120842	20.9633	20.9633	
48 Propionitrile	54	3.577	3.578	(0.944)	110987	96.1541	96.1541	
47 Benzene	78	3.561	3.567	(0.940)	710189	18.2059	18.2059	
49 Methacrylonitrile	67	3.583	3.583	(0.945)	65258	18.3736	18.3736	
50 tert-amyl methyl Ether	73	3.599	3.600	(0.950)	376890	18.5894	18.5894	
$ 51 1,2-Dichloroethane-d4	65	3.637	3.638	(0.960)	239897	28.6880	28.6880	
54 Isobutyl alcohol	43	3.632	3.632	(0.958)	50635	277.434	277.434(R)	
52 1,2-Dichloroethane	62	3.675	3.676	(0.970)	212081	18.3573	18.3573	
53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	38043	99.8941	99.8941	
* 55 Fluorobenzene	96	3.790	3.791	(1.000)	1066160	30.0000		
56 Diisobutylene	57	3.790	3.796	(1.000)	483609	22.1128	22.1128	
57 Trichloroethene	95	3.883	3.883	(1.024)	164246	17.6881	17.6881	
58 Methyl cyclohexane	83	3.883	3.883	(0.674)	287134	18.8439	18.8439	
59 tert-Amyl Ethylether	59	3.992	3.987	(1.053)	336682	18.6427	18.6427	
60 Dibromomethane	93	4.139	4.139	(1.092)	84181	17.7619	17.7619	
61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	181614	18.9450	18.9450	
62 Bromodichloromethane	83	4.221	4.222	(1.114)	178738	18.5253	18.5253	
63 Methyl methacrylate	41	4.292	4.293	(1.132)	123549	18.7021	18.7021	
64 1,4-Dioxane	88	4.336	4.336	(1.144)	25027	786.828	786.828(R)	
65 2-Chloroethylvinyl ether	63	4.548	4.549	(1.200)	83502	17.8853	17.8853	
66 cis-1,3-Dichloropropene	75	4.603	4.604	(0.799)	221896	17.9139	17.9139	
67 Octane	85	4.608	4.609	(0.800)	75376	20.2594	20.2594	
$ 68 Toluene-d8	98	4.723	4.724	(0.820)	769488	27.1352	27.1352	
69 Toluene	92	4.756	4.756	(0.826)	419908	19.2033	19.2033	
70 Chloroacetonitrile	48	4.827	4.833	(0.838)	16692	85.3655	85.3655	
71 2-Nitropropane	41	4.908	4.909	(0.852)	129003	84.3970	84.3970	
72 1,1-Dichloro-2-propanone	63	4.919	4.920	(0.854)	13436	91.8616	91.8616(Q)	
73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.986	(0.865)	759789	100.790	100.790	
75 trans-1,3-Dichloropropene	75	5.012	5.013	(0.870)	207256	19.2560	19.2560	

Data File: 316102464.D Page 3
Report Date: 25-Oct-2016 10:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	118118	22.5487	22.5487	
	76 Ethyl methacrylate	69	5.094	5.095	(0.884)	195737	19.8433	19.8433	
	77 1,1,2-Trichloroethane	83	5.121	5.122	(0.889)	114438	18.0028	18.0028	
	78 Chlorodibromomethane	129	5.247	5.247	(0.911)	107011	18.7188	18.7188	
	79 1,3-Dichloropropane	76	5.312	5.313	(0.922)	246087	17.9384	17.9384(M)	H
	80 1,2-Dibromoethane	107	5.421	5.422	(0.941)	120104	18.9954	18.9954	
	81 2-Hexanone	43	5.541	5.542	(0.962)	485645	101.710	101.710	
	82 1-Chlorohexane	91	5.738	5.739	(0.996)	208004	18.6517	18.6517	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	459017	30.0000		
	85 Ethylbenzene	106	5.781	5.782	(1.004)	231784	18.4977	18.4977	
	84 Chlorobenzene	112	5.771	5.777	(1.002)	403790	17.6014	17.6014	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.815	(1.009)	117502	19.5070	19.5070	
	87 mp-Xylene	106	5.880	5.880	(1.021)	544606	37.2463	37.2463	
M	120 1,3-Dichloropropene, Total	75				429152	37.1700	37.1700	
	88 o-Xylene	106	6.196	6.197	(1.076)	248220	19.1204	19.1204	
	89 Styrene	104	6.234	6.235	(0.829)	410378	19.6966	19.6966	
	90 Bromoform	173	6.262	6.262	(0.833)	45524	17.4106	17.4106	
	91 Isopropylbenzene	105	6.425	6.426	(0.855)	663701	19.4952	19.4952	
$	92 4-Bromofluorobenzene	174	6.649	6.650	(0.885)	163428	28.1078	28.1078	
M	121 TOTAL XYLENES	106				792826	56.3668	56.3668	
	94 n-Propylbenzene	120	6.736	6.737	(0.896)	168854	19.6143	19.6143	
	93 Bromobenzene	156	6.731	6.732	(0.895)	131196	18.3826	18.3826	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.792	(0.903)	153352	18.5747	18.5747	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.916)	497798	19.9697	19.9697	
	96 o-Chlorotoluene	91	6.867	6.868	(0.914)	503249	18.8257	18.8257	
	98 1,2,3-Trichloropropane	110	6.906	6.906	(0.919)	45764	18.6494	18.6494	
	99 trans-1,4-Dichloro-2-butene	53	6.933	6.933	(0.922)	36837	18.6849	18.6849(Q)	
	101 p-Chlorotoluene	91	6.993	6.994	(0.930)	458759	18.8374	18.8374	
	102 tert-Butylbenzene	134	7.140	7.141	(0.950)	109523	19.4025	19.4025	
	103 Pentachloroethane	117	7.162	7.163	(0.953)	82285	17.5102	17.5102(Q)	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.957)	484963	19.8974	19.8974	
	105 sec-Butylbenzene	105	7.277	7.277	(0.968)	619162	19.8641	19.8641	
	106 p-Isopropyltoluene	134	7.391	7.392	(0.983)	118884	20.0183	20.0183	
	107 1,3-Dichlorobenzene	146	7.462	7.463	(0.993)	228695	19.5897	19.5897	
*	108 1,4-Dichlorobenzene-d4	152	7.517	7.523	(1.000)	280924	30.0000		
	109 1,4-Dichlorobenzene	146	7.533	7.534	(1.002)	232105	19.8014	19.8014	
	111 n-Butylbenzene	134	7.735	7.736	(1.029)	98328	18.8019	18.8019(Q)	
	110 Benzyl Chloride	126	7.729	7.736	(1.028)	17766	12.0019	12.0019(QR)	
	112 Hexachloroethane	117	7.849	7.850	(1.044)	59522	16.4021	16.4021	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.048)	203667	19.4038	19.4038	
	114 1,2-Dibromo-3-chloropropane	75	8.537	8.542	(1.136)	15260	17.9648	17.9648	
	115 Nitrobenzene	77	9.028	9.029	(1.201)	6299	286.050	286.050(R)	
	116 Hexachlorobutadiene	225	9.088	9.089	(1.209)	40500	20.7131	20.7131	
	117 1,2,4-Trichlorobenzene	180	9.115	9.116	(1.213)	81087	18.4251	18.4251	
	118 Naphthalene	128	9.394	9.394	(1.250)	128162	16.3213	16.3213	
	119 1,2,3-Trichlorobenzene	180	9.546	9.547	(1.270)	53851	18.4598	18.4598	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 316102464.D Page 4
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i
Lab File ID: 316102464.D
Lab Smp Id: 2428716
Analysis Type: VOA
Quant Type: ISTD
Operator: CJG
Calibration Date: 25-OCT-2016
Calibration Time: 00:52
Client Smp ID: LCS for HBN 174
Level: LOW
Sample Type: WATER
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info: ZZ VOMS 41243 D8260W

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	1066160	5.23
83 Chlorobenzene-d5	432864	216432	865728	459017	6.04
108 1,4-Dichlorobenze	273837	136919	547674	280924	2.59

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	-0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	-0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102464.D Page 5
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

RECOVERY REPORT

Client Name: Client SDG: 3161024A.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 2428716 Client Smp ID: LCS for HBN 174041
Level: LOW Operator: CJG
Data Type: MS DATA SampleType: LCS
SpikeList File: WDODLCSICAL.spk Quant Type: ISTD
Sublist File: DODall.sub
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info: ZZ VOMS 41243 D8260W

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Dichlorodifluorome	20.0000	16.4722	82.36	80-120
2	Chloromethane	20.0000	18.1857	90.93	80-120
3	Vinyl Chloride	20.0000	18.7796	93.90	80-120
4	Bromomethane	20.0000	16.5690	82.84	80-120
5	Chloroethane	20.0000	20.7272	103.64	80-120
6	Pentane	20.0000	24.2068	121.03*	80-120
7	Trichlorofluoromet	20.0000	20.3482	101.74	80-120
8	Dichlorofluorometh	20.0000	19.0282	95.14	80-120
9	Ethyl Ether	20.0000	18.4606	92.30	80-120
10	1,1-Dichloroethene	20.0000	18.3179	91.59	80-120
11	Freon 113	20.0000	19.5274	97.64	80-120
12	Carbon Disulfide	20.0000	16.0581	80.29	80-120
13	Iodomethane	20.0000	11.4797	57.40*	80-120
14	Acrolein	150.000	146.427	97.62	80-120
15	Isopropyl Alcohol	100.000	116.280	116.28	80-120
16	3-Chloro-1-propene	20.0000	19.2624	96.31	80-120
17	Methylene Chloride	20.0000	19.4470	97.23	80-120
18	Acetone	100.000	96.5141	96.51	80-120
19	Methyl acetate	20.0000	19.3839	96.92	80-120
20	trans-1,2-Dichloro	20.0000	18.6329	93.16	80-120
21	Hexane	20.0000	19.2294	96.15	80-120
22	Methyl t-Butyl Eth	20.0000	17.9253	89.63	80-120
23	tert.- Butyl Alcoh	100.000	105.771	105.77	80-120
24	Acetonitrile	100.000	107.445	107.44	80-120
25	Diisopropyl ether	20.0000	18.8231	94.12	80-120
26	Chloroprene	20.0000	20.1785	100.89	80-120
27	1,1-Dichloroethane	20.0000	18.5318	92.66	80-120
28	Acrylonitrile	100.000	92.5228	92.52	80-120
29	Ethyl tert-butyl e	20.0000	18.5667	92.83	80-120
30	n-Propanol	200.000	203.656	101.83	80-120
31	Vinyl acetate	20.0000	16.3116	81.56	80-120
32	cis-1,2-Dichloroet	20.0000	18.1745	90.87	80-120
33	2,2-Dichloropropan	20.0000	16.1713	80.86	80-120
34	Bromochloromethane	20.0000	18.5457	92.73	80-120
35	Cyclohexane	20.0000	19.3069	96.53	80-120
36	Chloroform	20.0000	19.4891	97.45	80-120
37	Ethyl acetate	20.0000	19.7207	98.60	80-120
38	Methyl acrylate	20.0000	18.6211	93.11	80-120
39	Carbon Tetrachlori	20.0000	18.7837	93.92	80-120
40	Tetrahydrofuran	100.000	92.0853	92.09	80-120

Data File: 316102464.D Page 6
Report Date: 25-Oct-2016 10:11

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
42	1,1,1-Trichloroeth	20.0000	18.9740	94.87	80-120
43	2-Butanone	100.000	95.2665	95.27	80-120
44	1,1-Dichloropropen	20.0000	18.9055	94.53	80-120
45	1-Chlorobutane	20.0000	20.7033	103.52	80-120
46	Heptane	20.0000	20.9633	104.82	80-120
47	Benzene	20.0000	18.2059	91.03	80-120
48	Propionitrile	100.000	96.1541	96.15	80-120
49	Methacrylonitrile	20.0000	18.3736	91.87	80-120
50	tert-amyl methyl E	20.0000	18.5894	92.95	80-120
52	1,2-Dichloroethane	20.0000	18.3573	91.79	80-120
53	tert-Amyl Alcohol	100.000	99.8941	99.89	80-120
54	Isobutyl alcohol	200.000	277.434	138.72*	80-120
56	Diisobutylene	20.0000	22.1128	110.56	80-120
57	Trichloroethene	20.0000	17.6881	88.44	80-120
58	Methyl cyclohexane	20.0000	18.8439	94.22	80-120
59	tert-Amyl Ethyleth	20.0000	18.6427	93.21	80-120
60	Dibromomethane	20.0000	17.7619	88.81	80-120
61	1,2-Dichloropropan	20.0000	18.9450	94.72	80-120
62	Bromodichlorometha	20.0000	18.5253	92.63	80-120
63	Methyl methacrylat	20.0000	18.7021	93.51	80-120
64	1,4-Dioxane	500.000	786.828	157.37*	80-120
65	2-Chloroethylvinyl	20.0000	17.8853	89.43	80-120
66	cis-1,3-Dichloropr	20.0000	17.9139	89.57	80-120
67	Octane	20.0000	20.2594	101.30	80-120
69	Toluene	20.0000	19.2033	96.02	80-120
70	Chloroacetonitrile	100.000	85.3655	85.37	80-120
71	2-Nitropropane	100.000	84.3970	84.40	80-120
72	1,1-Dichloro-2-pro	100.000	91.8616	91.86	80-120
73	4-Methyl-2-Pentano	100.000	100.790	100.79	80-120
74	Tetrachloroethene	20.0000	22.5487	112.74	80-120
75	trans-1,3-Dichloro	20.0000	19.2560	96.28	80-120
76	Ethyl methacrylate	20.0000	19.8433	99.22	80-120
77	1,1,2-Trichloroeth	20.0000	18.0028	90.01	80-120
78	Chlorodibromometha	20.0000	18.7188	93.59	80-120
79	1,3-Dichloropropan	20.0000	17.9384	89.69	80-120
80	1,2-Dibromoethane	20.0000	18.9954	94.98	80-120
81	2-Hexanone	100.000	101.710	101.71	80-120
82	1-Chlorohexane	20.0000	18.6517	93.26	80-120
84	Chlorobenzene	20.0000	17.6014	88.01	80-120
85	Ethylbenzene	20.0000	18.4977	92.49	80-120
86	1,1,1,2-Tetrachlor	20.0000	19.5070	97.53	80-120
87	mp-Xylene	40.0000	37.2463	93.12	80-120
88	o-Xylene	20.0000	19.1204	95.60	80-120
89	Styrene	20.0000	19.6966	98.48	80-120
90	Bromoform	20.0000	17.4106	87.05	80-120
91	Isopropylbenzene	20.0000	19.4952	97.48	80-120
93	Bromobenzene	20.0000	18.3826	91.91	80-120
94	n-Propylbenzene	20.0000	19.6143	98.07	80-120
95	1,1,2,2-Tetrachlor	20.0000	18.5747	92.87	80-120
96	o-Chlorotoluene	20.0000	18.8257	94.13	80-120
97	1,3,5-Trimethylben	20.0000	19.9697	99.85	80-120
98	1,2,3-Trichloropro	20.0000	18.6494	93.25	80-120
99	trans-1,4-Dichloro	20.0000	18.6849	93.42	80-120
M 100	1,2-Dichloroethene	40.0000	36.8074	92.02	80-120

Data File: 316102464.D Page 7
Report Date: 25-Oct-2016 10:11

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	101 p-Chlorotoluene	20.0000	18.8374	94.19	80-120
	102 tert-Butylbenzene	20.0000	19.4025	97.01	80-120
	103 Pentachloroethane	20.0000	17.5102	87.55	80-120
	104 1,2,4-Trimethylben	20.0000	19.8974	99.49	80-120
	105 sec-Butylbenzene	20.0000	19.8641	99.32	80-120
	106 p-Isopropyltoluene	20.0000	20.0183	100.09	80-120
	107 1,3-Dichlorobenzen	20.0000	19.5897	97.95	80-120
	109 1,4-Dichlorobenzen	20.0000	19.8014	99.01	80-120
	110 Benzyl Chloride	20.0000	12.0019	60.01*	80-120
	111 n-Butylbenzene	20.0000	18.8019	94.01	80-120
	112 Hexachloroethane	20.0000	16.4021	82.01	80-120
	113 1,2-Dichlorobenzen	20.0000	19.4038	97.02	80-120
	114 1,2-Dibromo-3-chlo	20.0000	17.9648	89.82	80-120
	115 Nitrobenzene	200.000	286.050	143.03*	80-120
	116 Hexachlorobutadien	20.0000	20.7131	103.57	80-120
	117 1,2,4-Trichloroben	20.0000	18.4251	92.13	80-120
	118 Naphthalene	20.0000	16.3213	81.61	80-120
	119 1,2,3-Trichloroben	20.0000	18.4598	92.30	80-120
M	120 1,3-Dichloropropen	40.0000	37.1700	92.92	80-120
M	121 TOTAL XYLENES	60.0000	56.3668	93.94	80-120

	SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$	41 Dibromofluorometha	30.0000	25.1714	83.90	80-119
$	51 1,2-Dichloroethane	30.0000	28.6880	95.63	81-118
$	68 Toluene-d8	30.0000	27.1352	90.45	89-112
$	92 4-Bromofluorobenze	30.0000	28.1078	93.69	85-114

Data File: 316102464.D Page 8
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2428716
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41243 D8260W

Client SDG: 3161024A.b
Client Smp ID: LCS for HBN 174041
Sample Point:
Date Received: 24-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: CJG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	16.4722	
74-87-3	Chloromethane	18.1857	
75-01-4	Vinyl Chloride	18.7796	
74-83-9	Bromomethane	16.5690	
75-00-3	Chloroethane	20.7272	
109-66-0	Pentane	24.2068	
75-69-4	Trichlorofluoromethane	20.3482	
75-43-4	Dichlorofluoromethane	19.0282	
60-29-7	Ethyl Ether	18.4606	
75-35-4	1,1-Dichloroethene	18.3179	
75-15-0	Carbon Disulfide	16.0581	
76-13-1	Freon 113	19.5274	
74-88-4	Iodomethane	11.4797	
107-02-8	Acrolein	146.427	
107-05-1	3-Chloro-1-propene	19.2624	
67-63-0	Isopropyl Alcohol	116.280	
75-09-2	Methylene Chloride	19.4470	
67-64-1	Acetone	96.5141	
79-20-9	Methyl acetate	19.3839	
156-60-5	trans-1,2-Dichloroethene	18.6329	
110-54-3	Hexane	19.2294	
1634-04-4	Methyl t-Butyl Ether	17.9253	
75-65-0	tert.- Butyl Alcohol	105.771	
75-05-8	Acetonitrile	107.445	
108-20-3	Diisopropyl ether	18.8231	
126-99-8	Chloroprene	20.1785	
75-34-3	1,1-Dichloroethane	18.5318	
107-13-1	Acrylonitrile	92.5228	
71-23-8	n-Propanol	203.656	
637-92-3	Ethyl tert-butyl ether	18.5667	
108-05-4	Vinyl acetate	16.3116	
156-59-2	cis-1,2-Dichloroethene	18.1745	
594-20-7	2,2-Dichloropropane	16.1713	
540-59-0	1,2-Dichloroethene, Total	36.8074	
74-97-5	Bromochloromethane	18.5457	
110-82-7	Cyclohexane	19.3069	
67-66-3	Chloroform	19.4891	
141-78-6	Ethyl acetate	19.7207	
96-33-3	Methyl acrylate	18.6211	
56-23-5	Carbon Tetrachloride	18.7837	
109-99-9	Tetrahydrofuran	92.0853	
71-55-6	1,1,1-Trichloroethane	18.9740	

Data File: 316102464.D Page 9
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2428716
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41243 D8260W

Client SDG: 3161024A.b
Client Smp ID: LCS for HBN 174041
Sample Point:
Date Received: 24-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: CJG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
78-93-3	2-Butanone	95.2665	
563-58-6	1,1-Dichloropropene	18.9055	
109-69-3	1-Chlorobutane	20.7033	
142-82-5	Heptane	20.9633	
107-12-0	Propionitrile	96.1541	
71-43-2	Benzene	18.2059	
126-98-7	Methacrylonitrile	18.3736	
994-05-8	tert-amyl methyl Ether	18.5894	
78-83-1	Isobutyl alcohol	277.434	
107-06-2	1,2-Dichloroethane	18.3573	
75-85-4	tert-Amyl Alcohol	99.8941	
107-39-1	Diisobutylene	22.1128	
79-01-6	Trichloroethene	17.6881	
108-87-2	Methyl cyclohexane	18.8439	
919-94-8	tert-Amyl Ethylether	18.6427	
74-95-3	Dibromomethane	17.7619	
78-87-5	1,2-Dichloropropane	18.9450	
75-27-4	Bromodichloromethane	18.5253	
80-62-6	Methyl methacrylate	18.7021	
123-91-1	1,4-Dioxane	786.828	
110-75-8	2-Chloroethylvinyl ether	17.8853	
10061-01-5	cis-1,3-Dichloropropene	17.9139	
111-65-9	Octane	20.2594	
108-88-3	Toluene	19.2033	
107-14-2	Chloroacetonitrile	85.3655	
79-46-9	2-Nitropropane	84.3970	
513-88-2	1,1-Dichloro-2-propanone	91.8616	
108-10-1	4-Methyl-2-Pentanone(MIBK)	100.790	
10061-02-6	trans-1,3-Dichloropropene	19.2560	
127-18-4	Tetrachloroethene	22.5487	
97-63-2	Ethyl methacrylate	19.8433	
79-00-5	1,1,2-Trichloroethane	18.0028	
124-48-1	Chlorodibromomethane	18.7188	
142-28-9	1,3-Dichloropropane	17.9384	
106-93-4	1,2-Dibromoethane	18.9954	
591-78-6	2-Hexanone	101.710	
544-10-5	1-Chlorohexane	18.6517	
100-41-4	Ethylbenzene	18.4977	
108-90-7	Chlorobenzene	17.6014	
630-20-6	1,1,1,2-Tetrachloroethane	19.5070	
108383/106423	m-p-Xylene	37.2463	
542-75-6	1,3-Dichloropropene, Total	37.1700	

Data File: 316102464.D Page 10
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2428716
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41243 D8260W

Client SDG: 3161024A.b
Client Smp ID: LCS for HBN 174041
Sample Point:
Date Received: 24-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: CJG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
95-47-6	o-Xylene	19.1204	
100-42-5	Styrene	19.6966	
75-25-2	Bromoform	17.4106	
98-82-8	Isopropylbenzene	19.4952	
1330-20-7	TOTAL XYLENES	56.3668	
103-65-1	n-Propylbenzene	19.6143	
108-86-1	Bromobenzene	18.3826	
79-34-5	1,1,2,2-Tetrachloroethane	18.5747	
108-67-8	1,3,5-Trimethylbenzene	19.9697	
95-49-8	o-Chlorotoluene	18.8257	
96-18-4	1,2,3-Trichloropropane	18.6494	
110-57-6	trans-1,4-Dichloro-2-butene	18.6849	
106-43-4	p-Chlorotoluene	18.8374	
98-06-6	tert-Butylbenzene	19.4025	
76-01-7	Pentachloroethane	17.5102	
95-63-6	1,2,4-Trimethylbenzene	19.8974	
135-98-8	sec-Butylbenzene	19.8641	
99-87-6	p-Isopropyltoluene	20.0183	
541-73-1	1,3-Dichlorobenzene	19.5897	
106-46-7	1,4-Dichlorobenzene	19.8014	
104-51-8	n-Butylbenzene	18.8019	
100-44-7	Benzyl Chloride	12.0019	
67-72-1	Hexachloroethane	16.4021	
95-50-1	1,2-Dichlorobenzene	19.4038	
96-12-8	1,2-Dibromo-3-chloropropane	17.9648	
98-95-3	Nitrobenzene	286.050	
87-68-3	Hexachlorobutadiene	20.7131	
120-82-1	1,2,4-Trichlorobenzene	18.4251	
91-20-3	Naphthalene	16.3213	
87-61-6	1,2,3-Trichlorobenzene	18.4598	
1868-53-7	Dibromofluoromethane	25.1714	
17060-07-0	1,2-Dichloroethane-d4	28.6880	
2037-26-5	Toluene-d8	27.1352	
460-00-4	4-Bromofluorobenzene	28.1078	

Data File: 316102464.D Page 11
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

TENTATIVELY IDENTIFIED COMPOUNDS

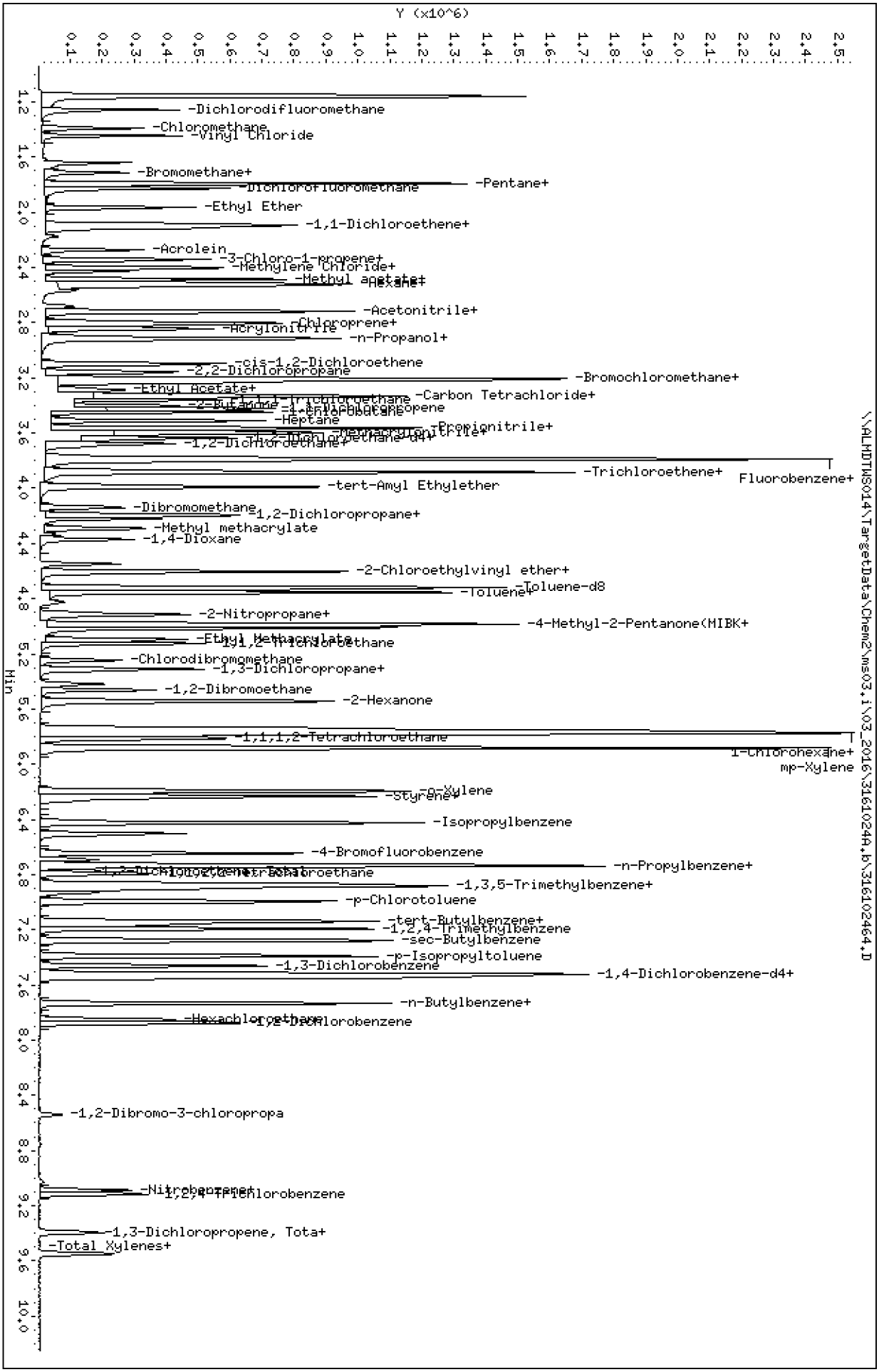
Client Name:
Lab Smp Id: 2428716
Operator : CJG
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 25-OCT-2016 03:26

Client SDG: 3161024A.b
Client Smp ID: LCS for HBN 174041
Sample Date:
Sample Point:
Date Received:24-OCT-2016 00:00
Level: LOW

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown	1.160	17.1388	_J__
2.	142-28-9	Propane, 1,3-dichloro-	5.313	3.33876	NJ__


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane+
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Acrylonitrile
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Carbon Tetrachloride+
-Heptane
-Propionitrile+
-1,2-Dichloroethane-d4+
-Trichloroethene+
Fluorobenzene+
-tert-Amyl Ethylether
-Dibromomethane
1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK+
-Ethyl Methacrylate
-Chlorodibromomethane
-1,3-Dichloropropane+
-1,2-Dibromoethane
-2-Hexanone
-1,1,1,2-Tetrachloroethane
1-Chlorohexane+
mp-Xylene
-o-Xylene
-Styrene+
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-1,2,4-Trichlorobenzene
-1,3-Dichloropropene, Tota+
-Total Xylenes+
Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024 64.D
Date : 25-OCT-2016 03:26
Client ID: LCS for HBN 174041
Sample Info: 242871 ;;1;3;;LCS;1;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3161024 64.D

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 13

Date : 25-OCT-2016 03:26

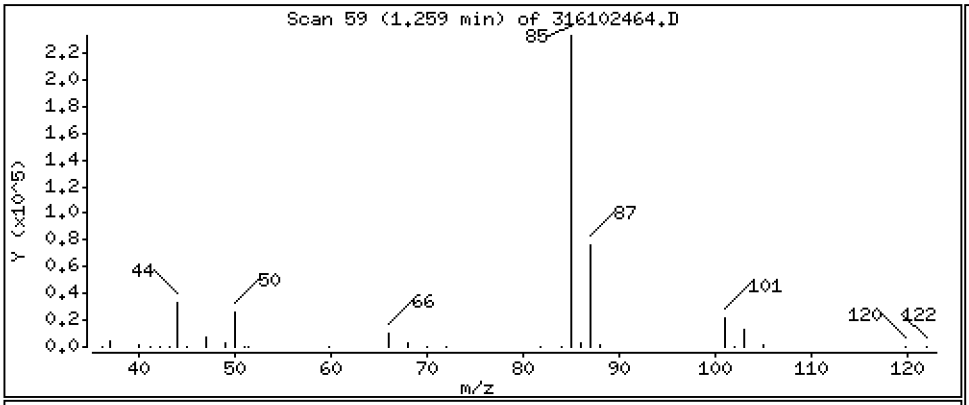
Client ID: LCS for HBN 174041 Instrument: ms03.i

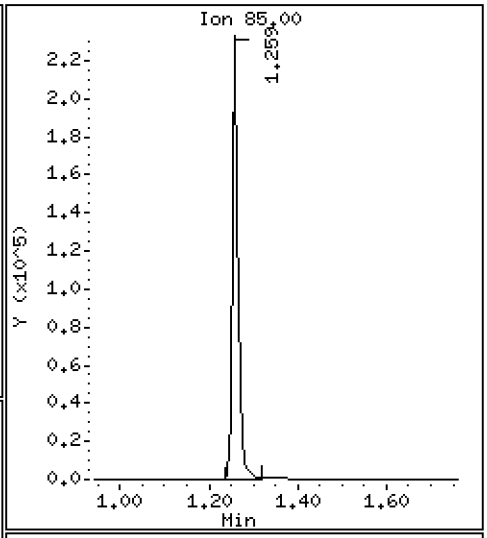
Sample Info: 2428716;;1;3;;LCS;1;

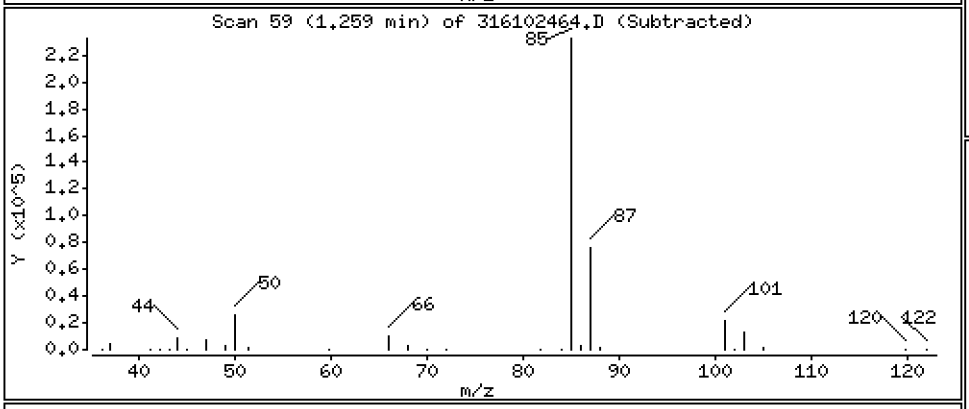
Purge Volume: 5.0 Operator: CJG

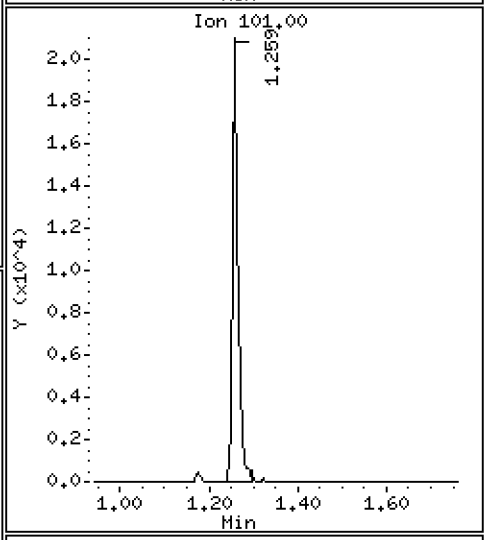
Column phase: DB-VRX Column diameter: 0.25

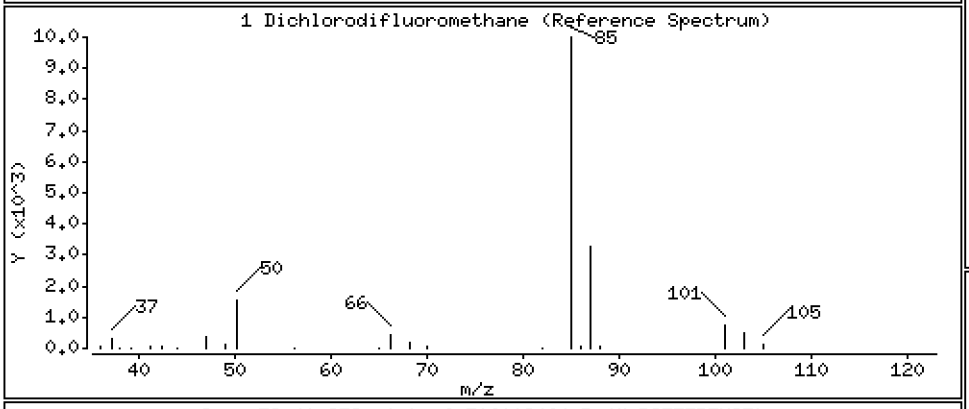
1 Dichlorodifluoromethane Concentration: 16.4722 ug/L

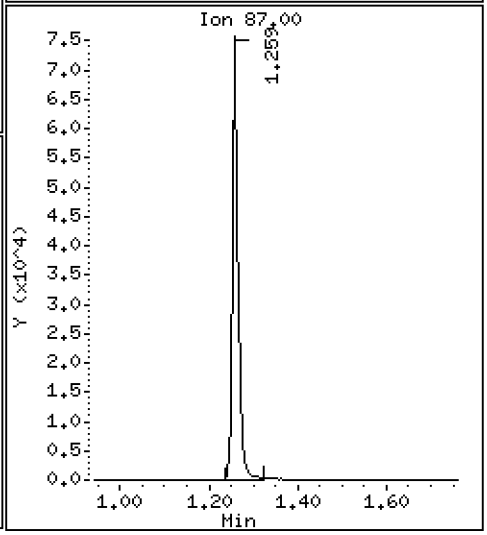


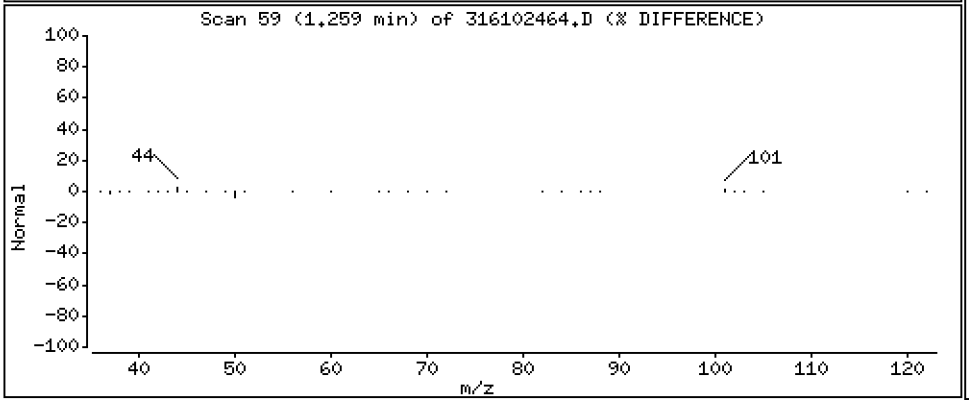












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 14

Date : 25-OCT-2016 03:26

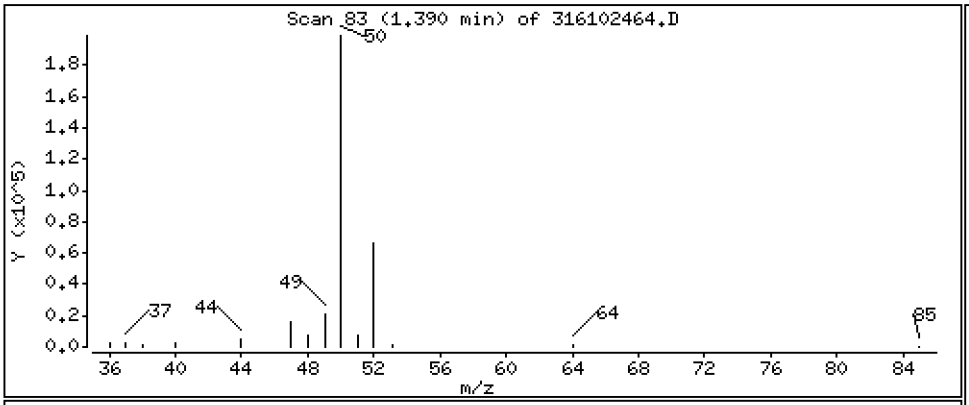
Client ID: LCS for HBN 174041 Instrument: ms03.i

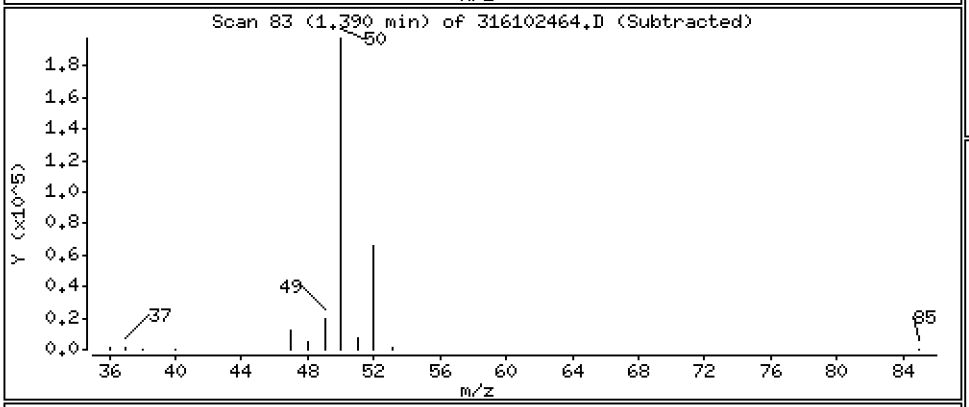
Sample Info: 2428716;;1;3;;LCS;1;

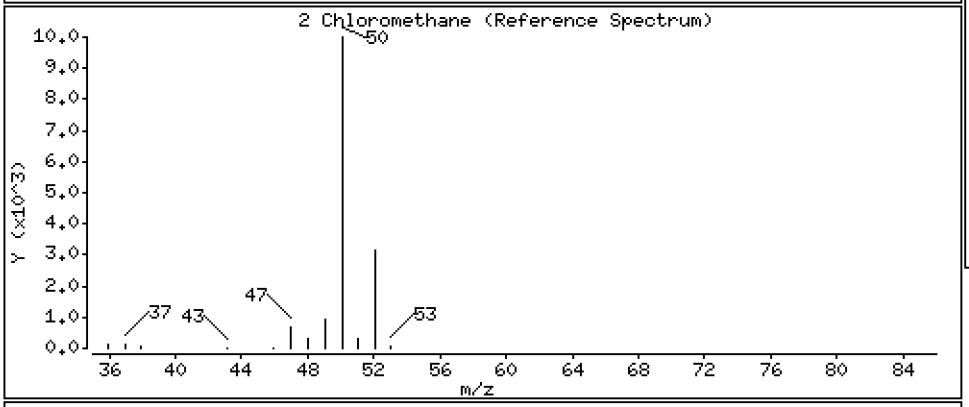
Purge Volume: 5.0 Operator: CJG

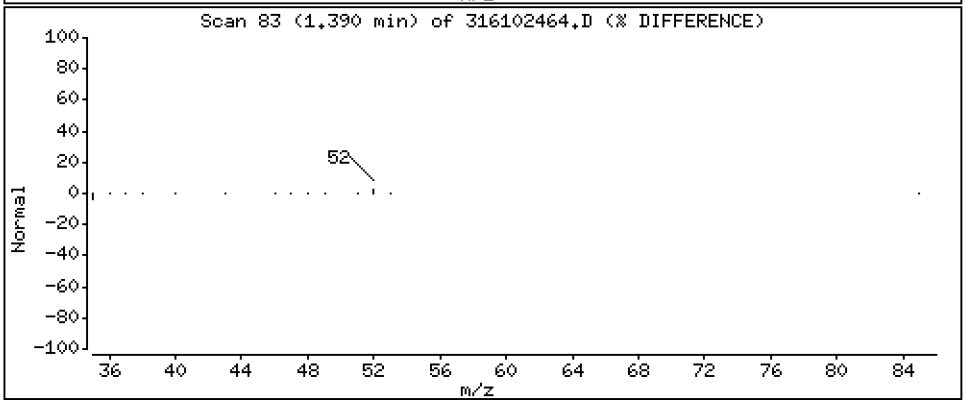
Column phase: DB-VRX Column diameter: 0.25

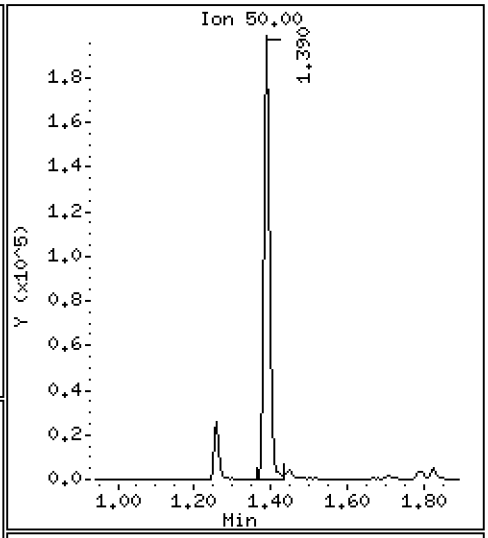
2 Chloromethane Concentration: 18.1857 ug/L

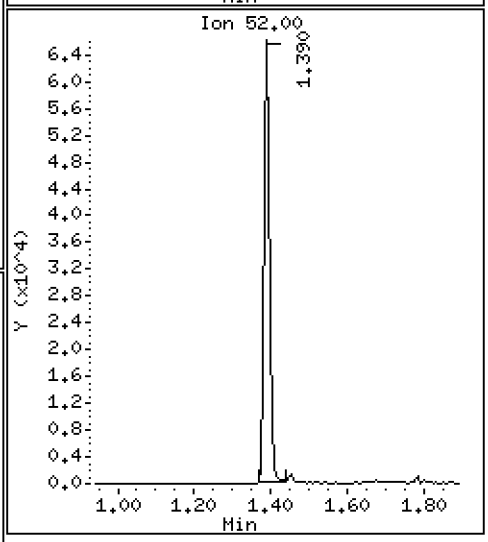












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 15

Date : 25-OCT-2016 03:26

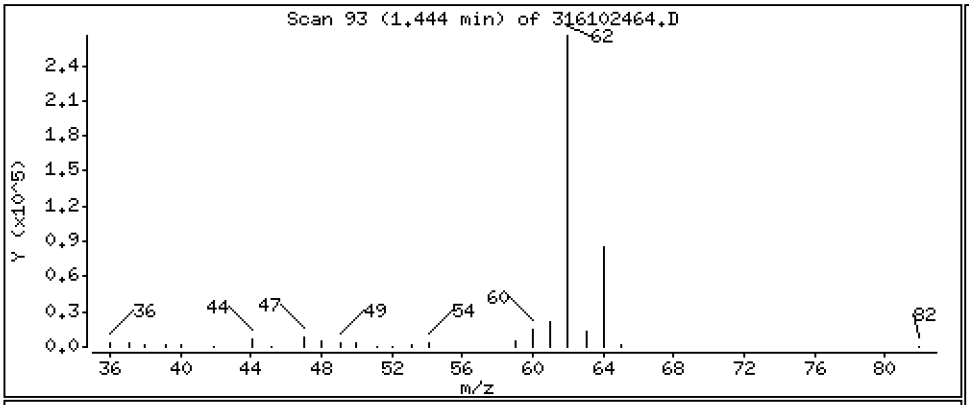
Client ID: LCS for HBN 174041 Instrument: ms03.i

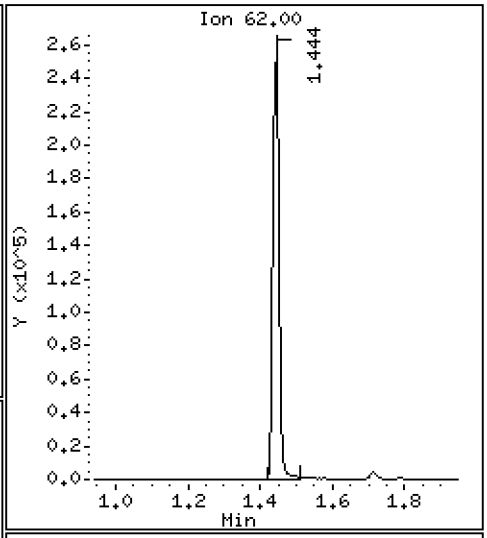
Sample Info: 2428716;;1;3;;LCS;1;

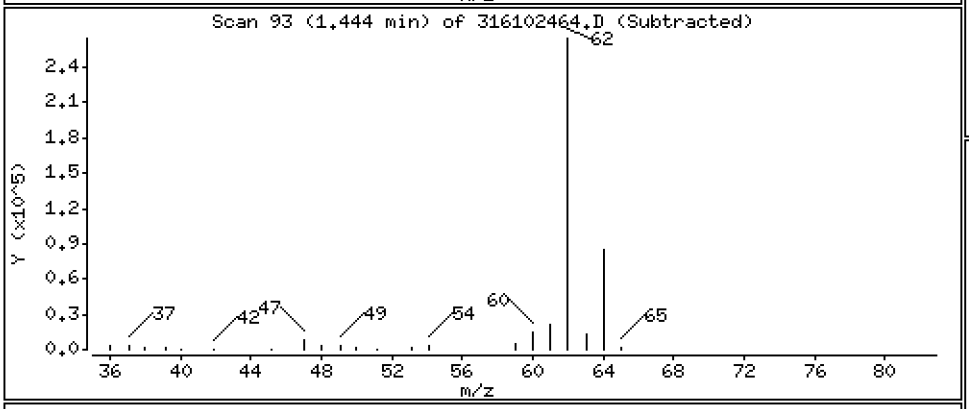
Purge Volume: 5.0 Operator: CJG

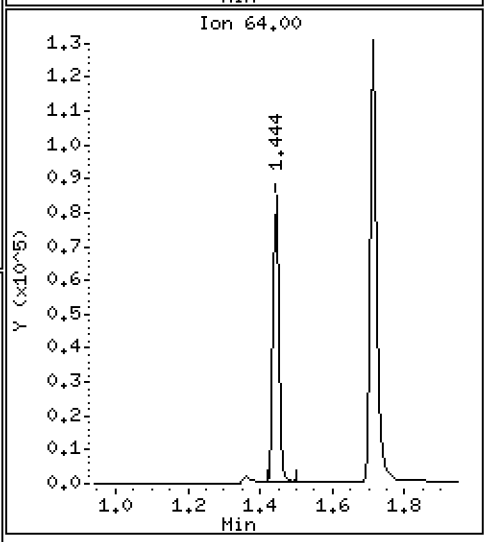
Column phase: DB-VRX Column diameter: 0.25

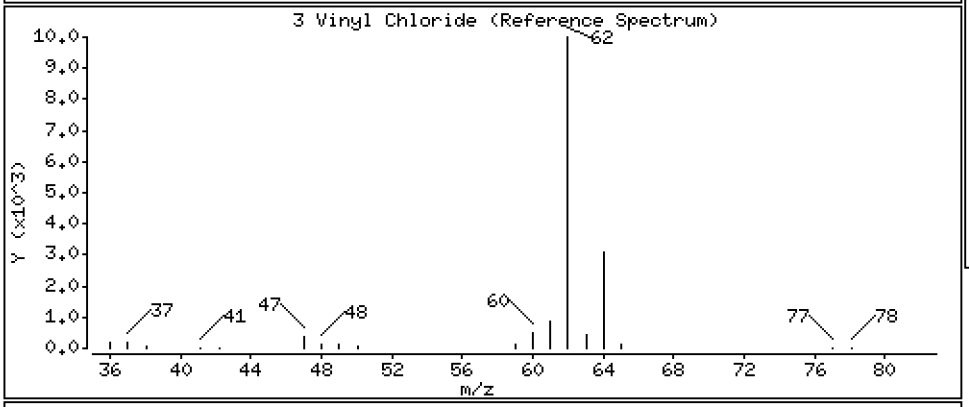
3 Vinyl Chloride Concentration: 18.7796 ug/L

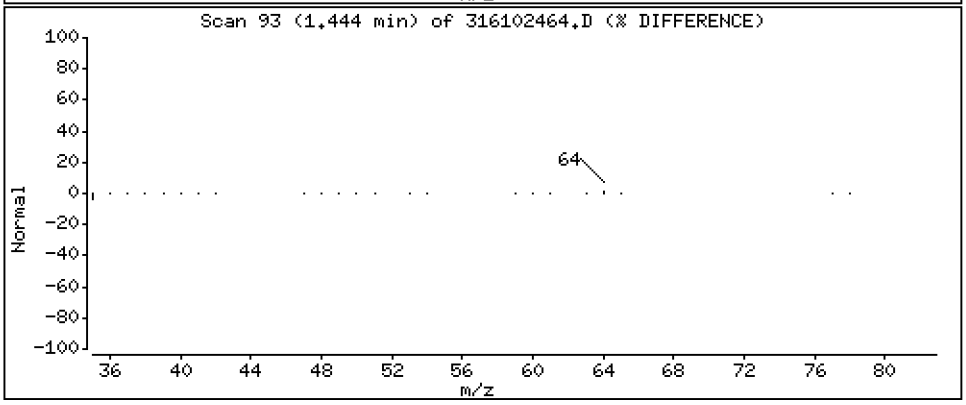












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 16

Date : 25-OCT-2016 03:26

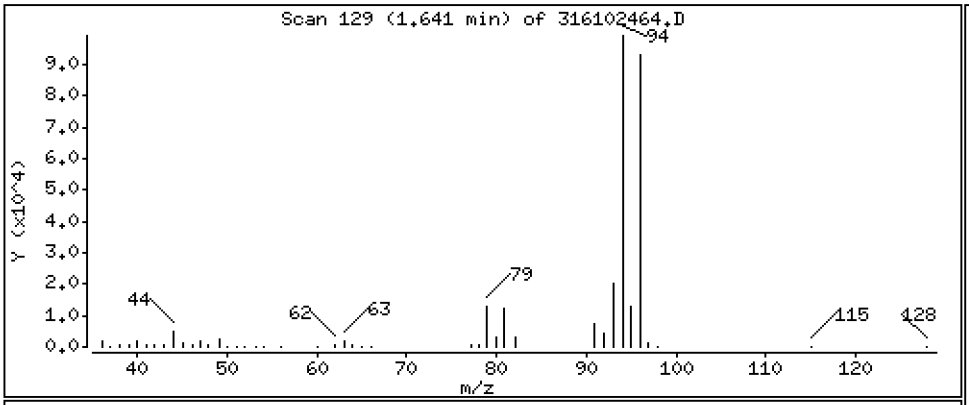
Client ID: LCS for HBN 174041 Instrument: ms03.i

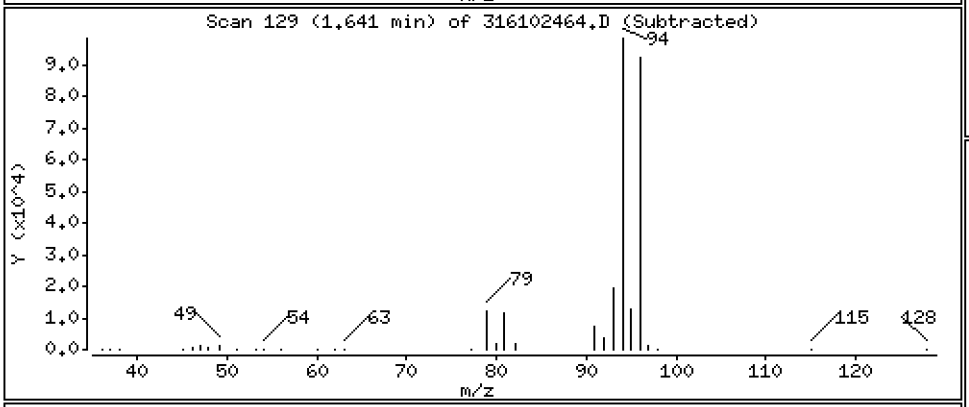
Sample Info: 2428716;;1;3;;LCS;1;

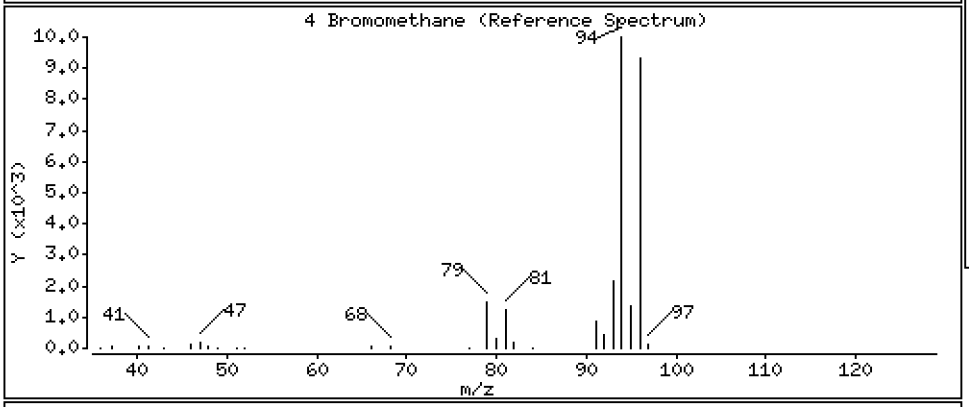
Purge Volume: 5.0 Operator: CJG

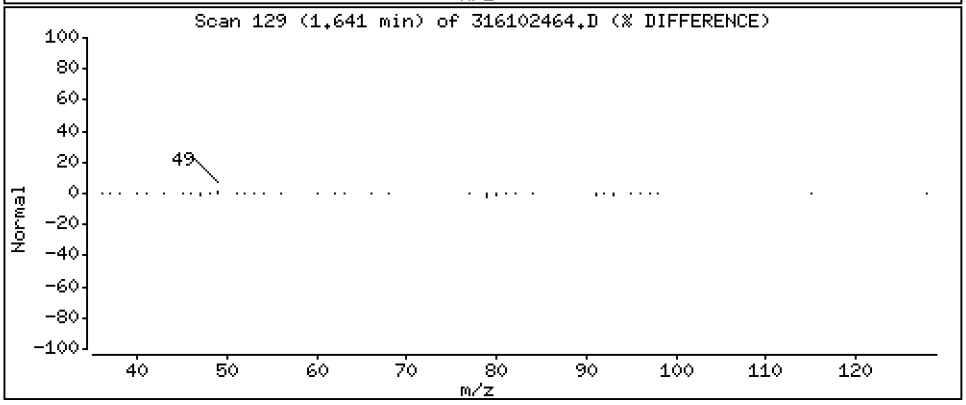
Column phase: DB-VRX Column diameter: 0.25

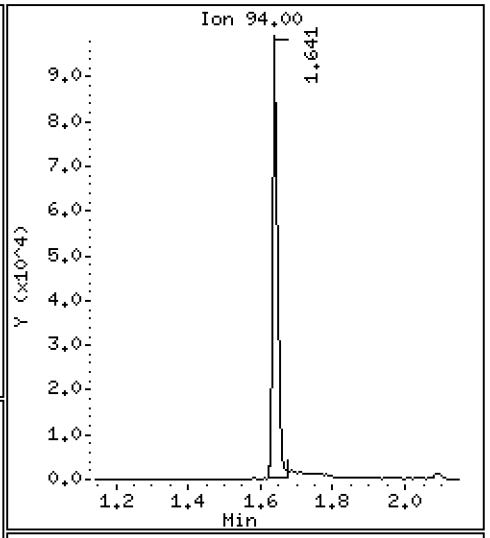
4 Bromomethane Concentration: 16.5690 ug/L

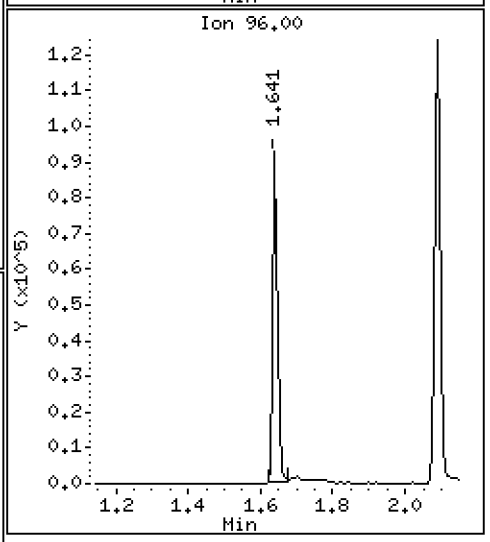












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 17

Date : 25-OCT-2016 03:26

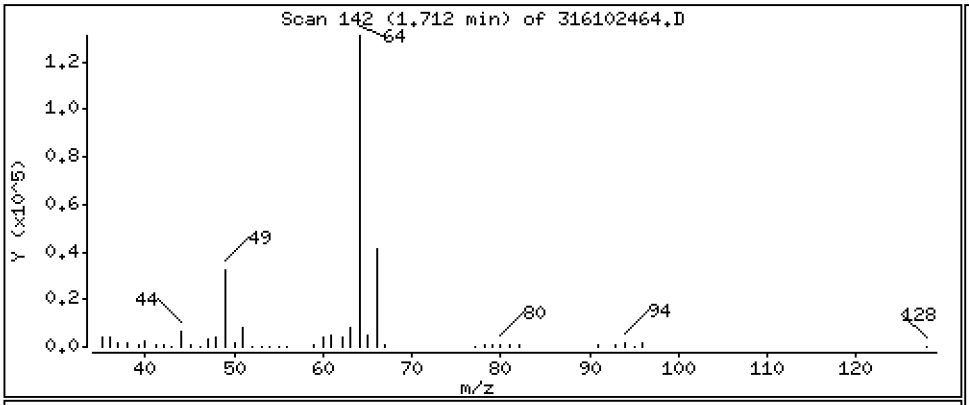
Client ID: LCS for HBN 174041 Instrument: ms03.i

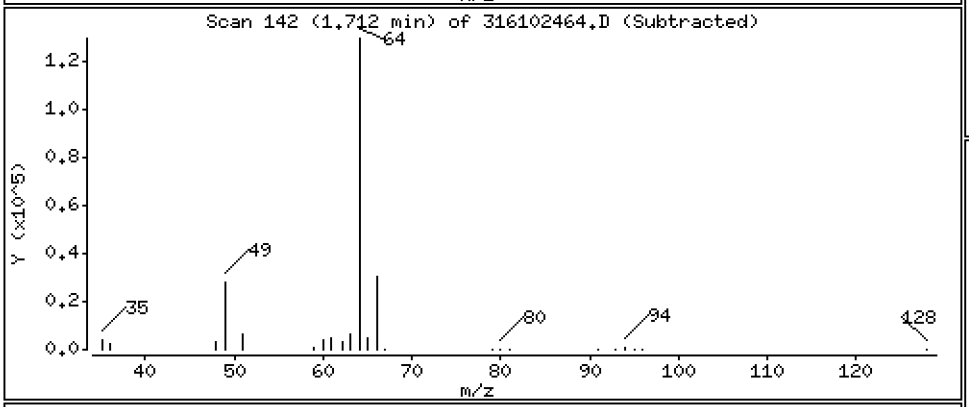
Sample Info: 2428716;;1;3;;LCS;1;

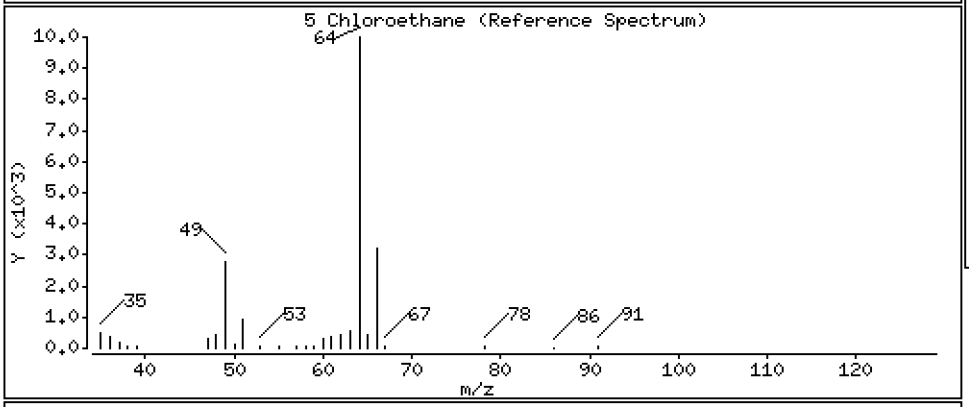
Purge Volume: 5.0 Operator: CJG

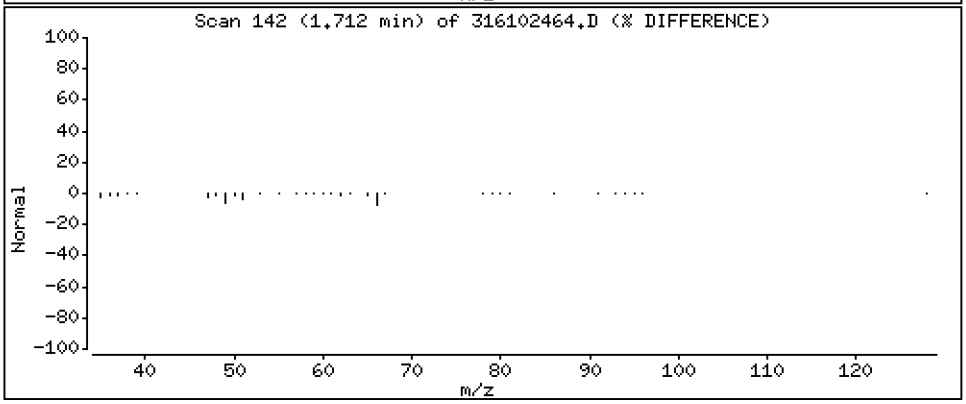
Column phase: DB-VRX Column diameter: 0.25

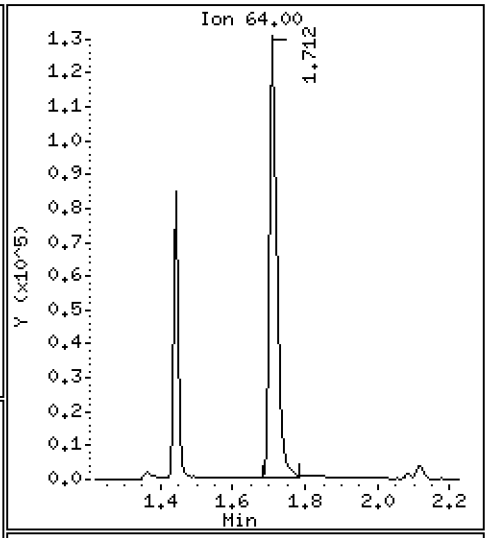
5 Chloroethane Concentration: 20.7272 ug/L

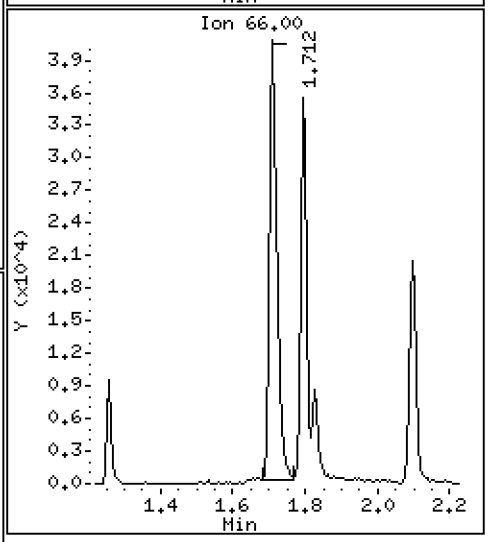












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 18

Date : 25-OCT-2016 03:26

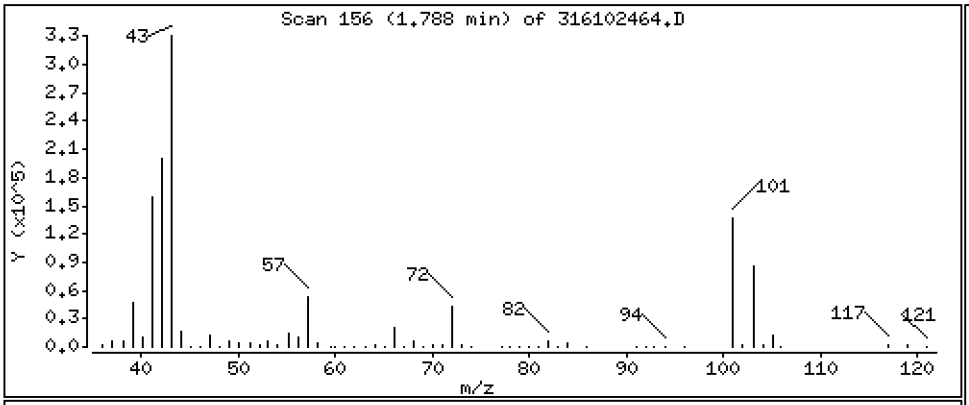
Client ID: LCS for HBN 174041 Instrument: ms03.i

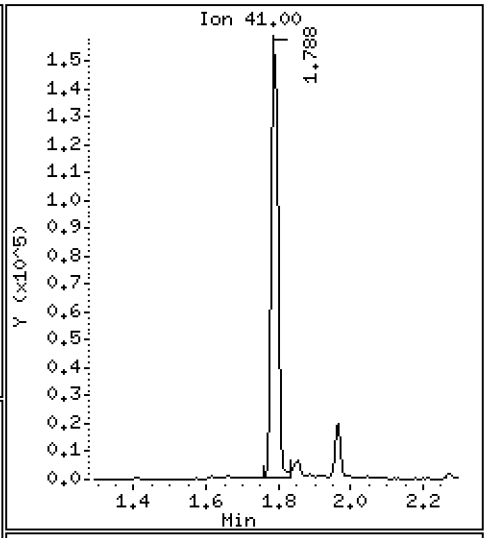
Sample Info: 2428716;;1;3;;LCS;1;

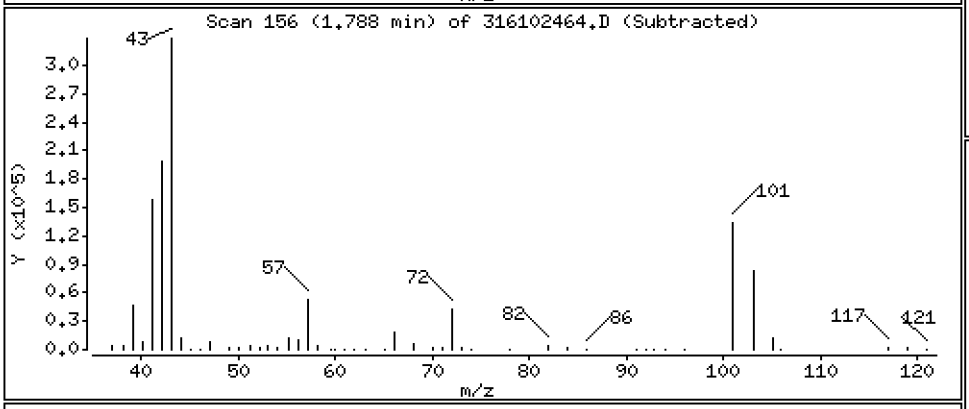
Purge Volume: 5.0 Operator: CJG

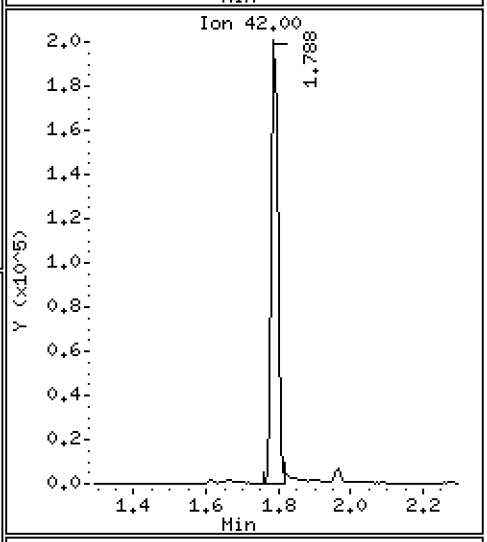
Column phase: DB-VRX Column diameter: 0.25

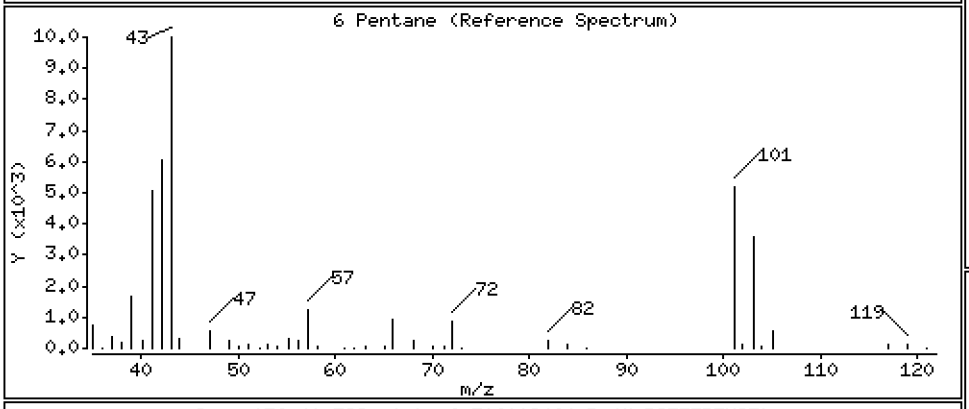
6 Pentane Concentration: 24.2068 ug/L

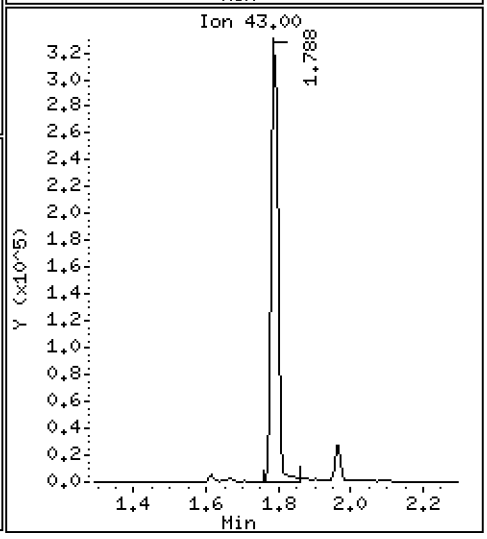


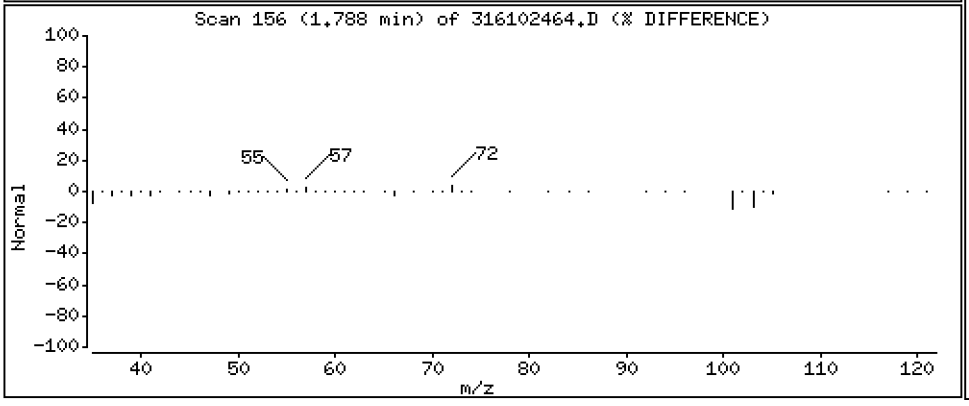












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 19

Date : 25-OCT-2016 03:26

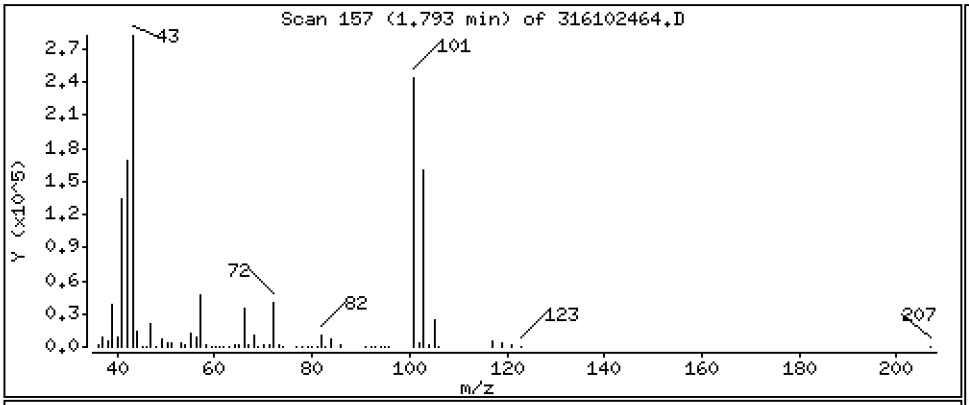
Client ID: LCS for HBN 174041 Instrument: ms03.i

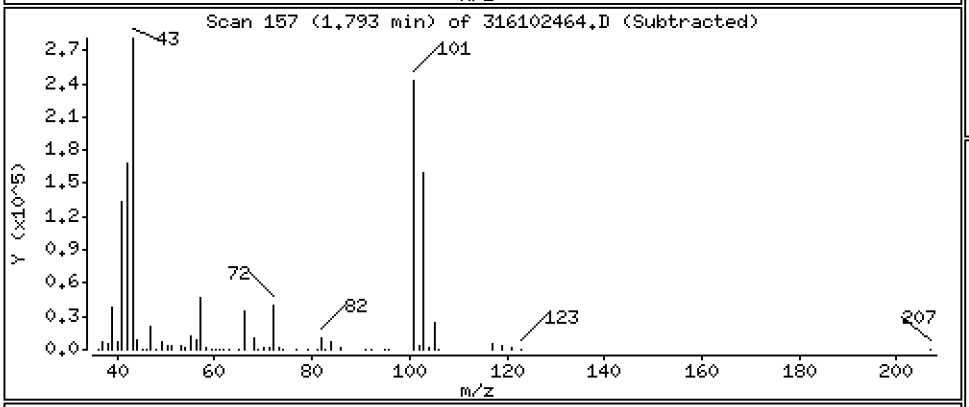
Sample Info: 2428716;;1;3;;LCS;1;

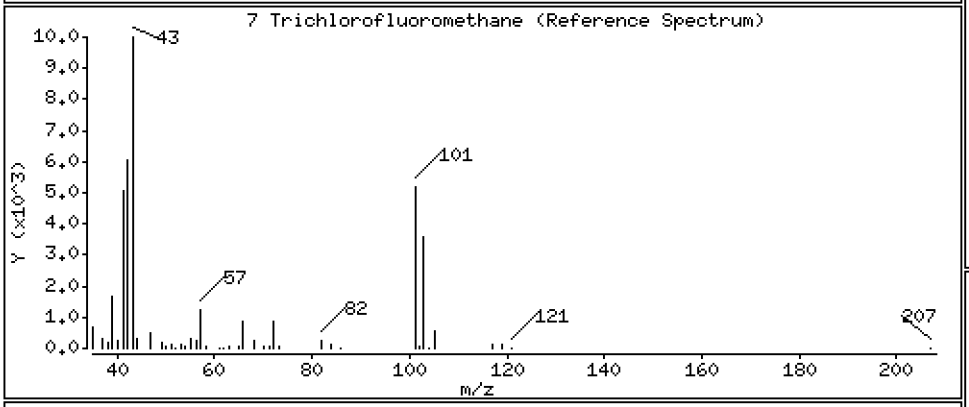
Purge Volume: 5.0 Operator: CJG

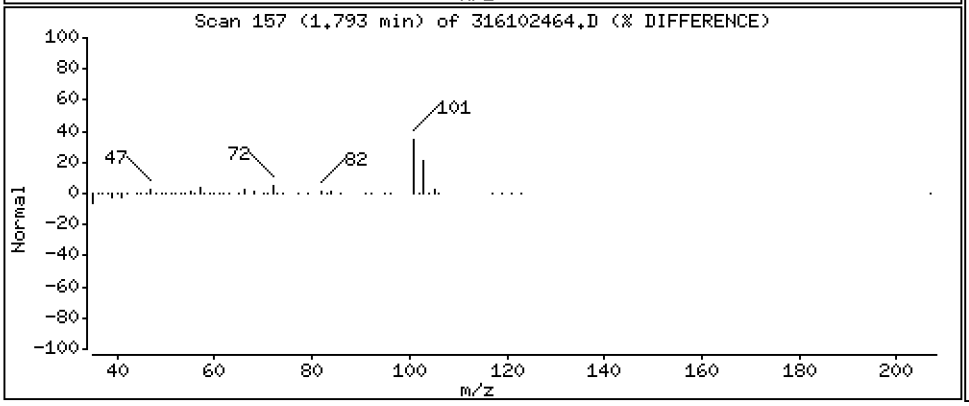
Column phase: DB-VRX Column diameter: 0.25

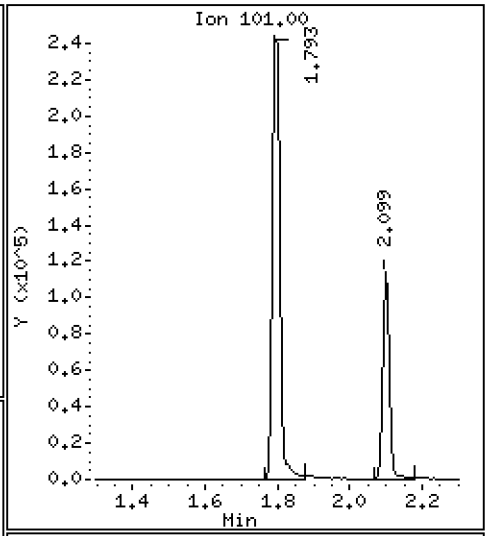
7 Trichlorofluoromethane Concentration: 20.3482 ug/L

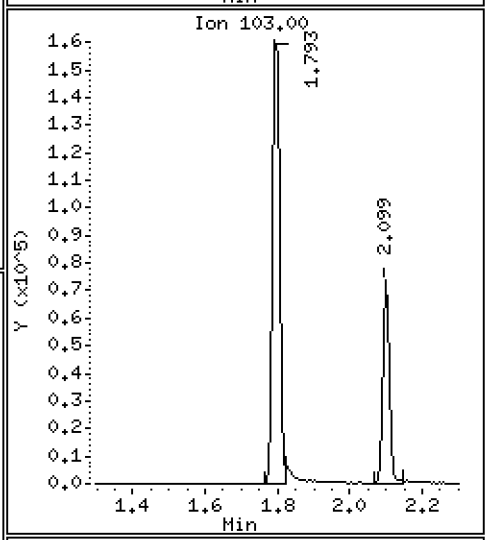


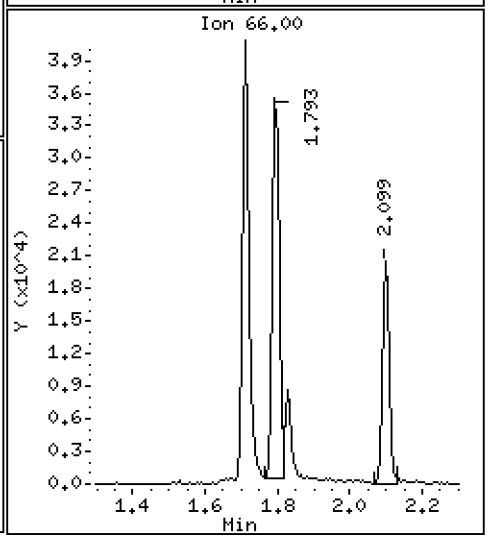












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 20

Date : 25-OCT-2016 03:26

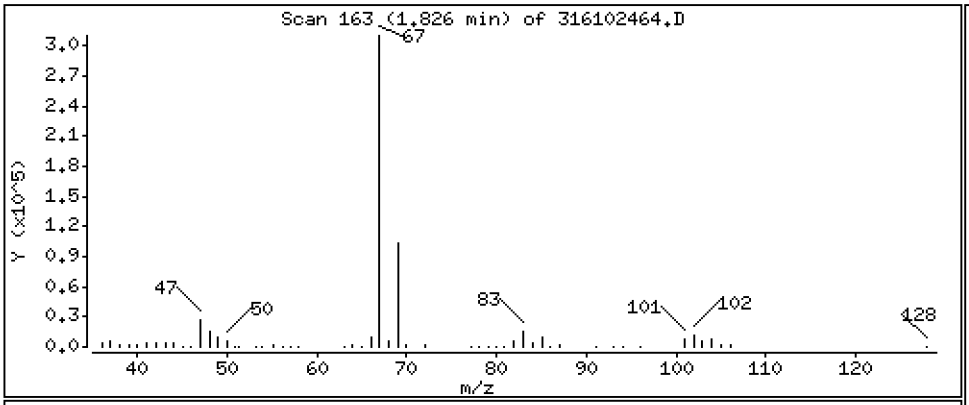
Client ID: LCS for HBN 174041 Instrument: ms03.i

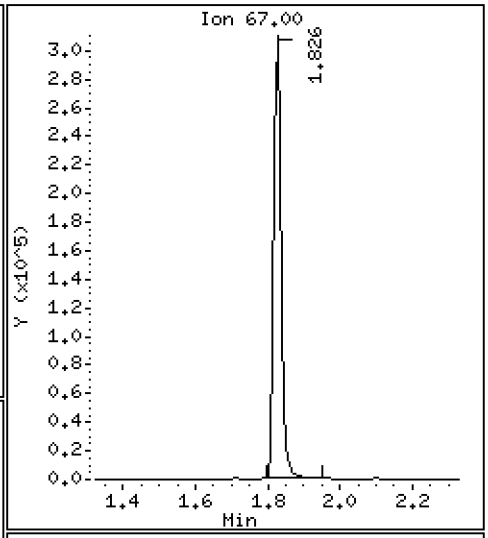
Sample Info: 2428716;;1;3;;LCS;1;

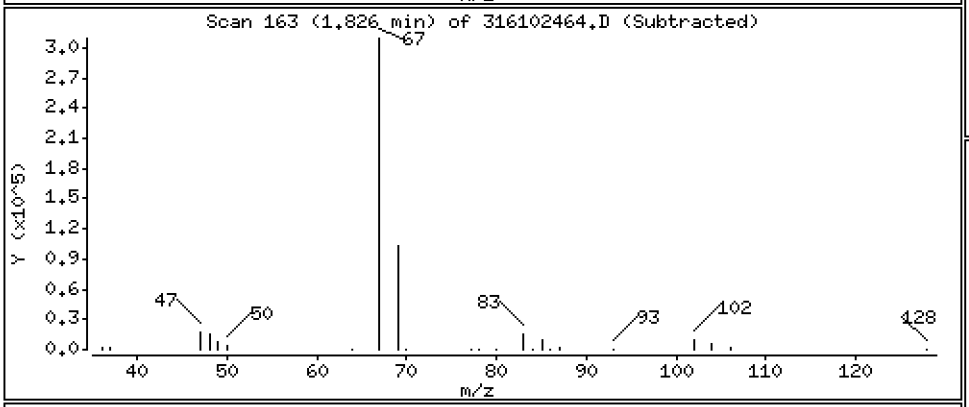
Purge Volume: 5.0 Operator: CJG

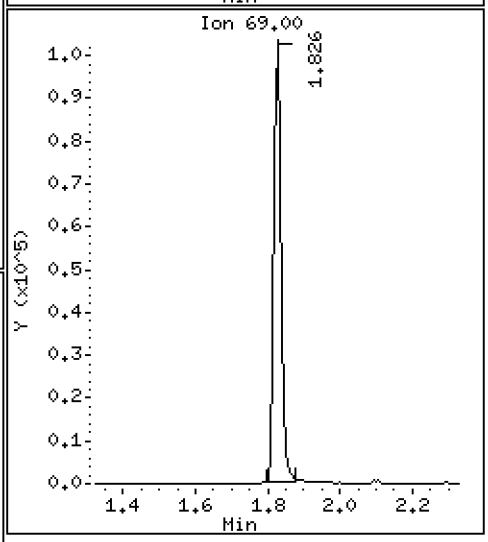
Column phase: DB-VRX Column diameter: 0.25

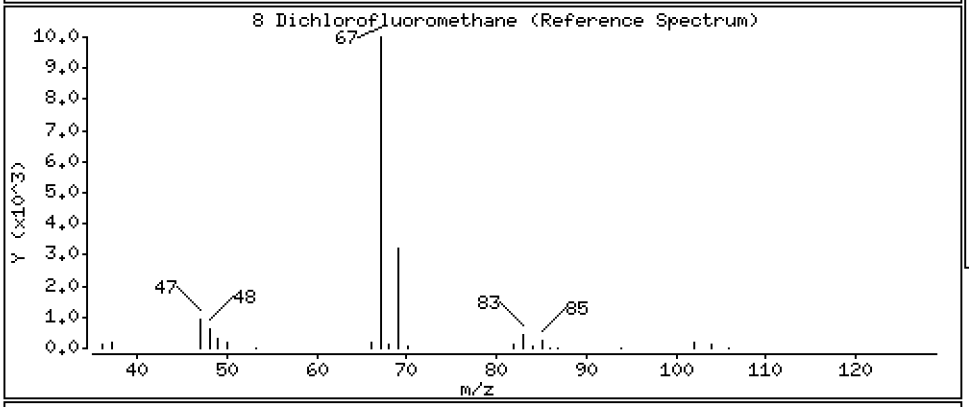
8 Dichlorofluoromethane Concentration: 19.0282 ug/L

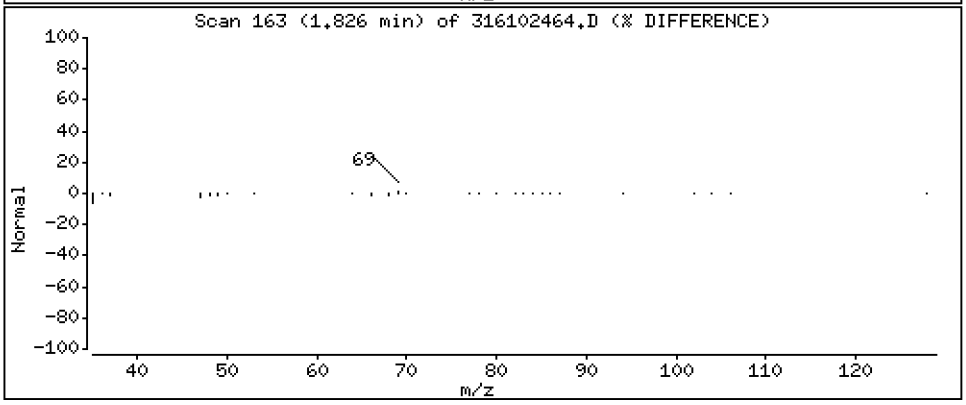












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 21

Date : 25-OCT-2016 03:26

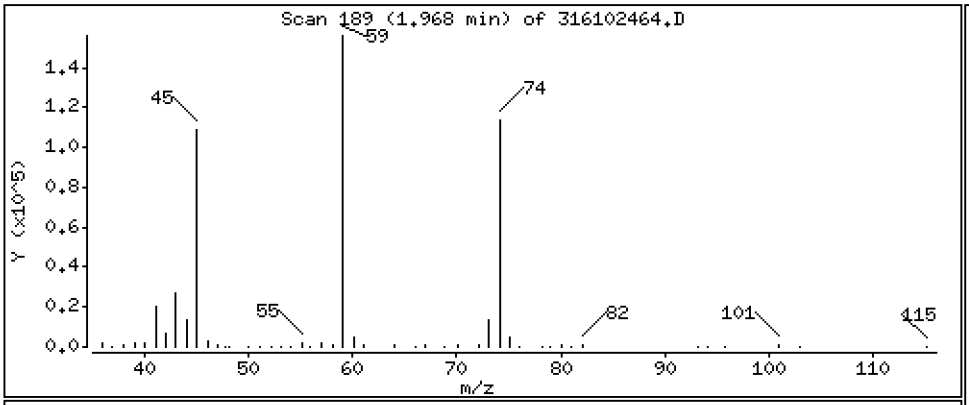
Client ID: LCS for HBN 174041 Instrument: ms03.i

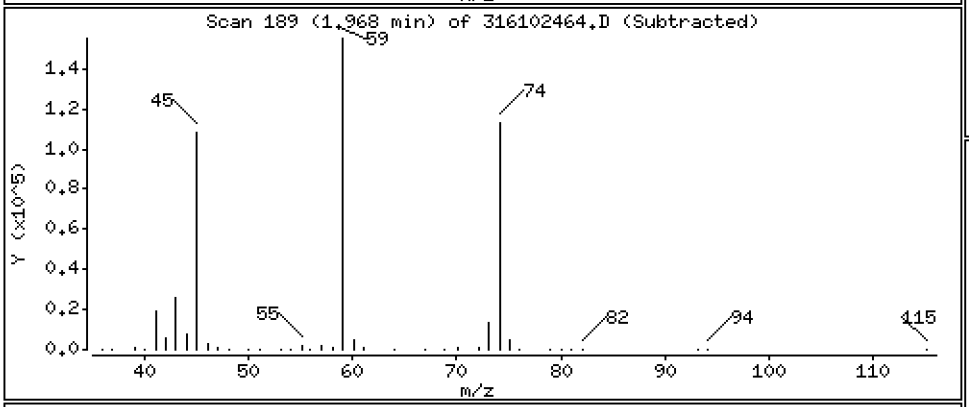
Sample Info: 2428716;;1;3;;LCS;1;

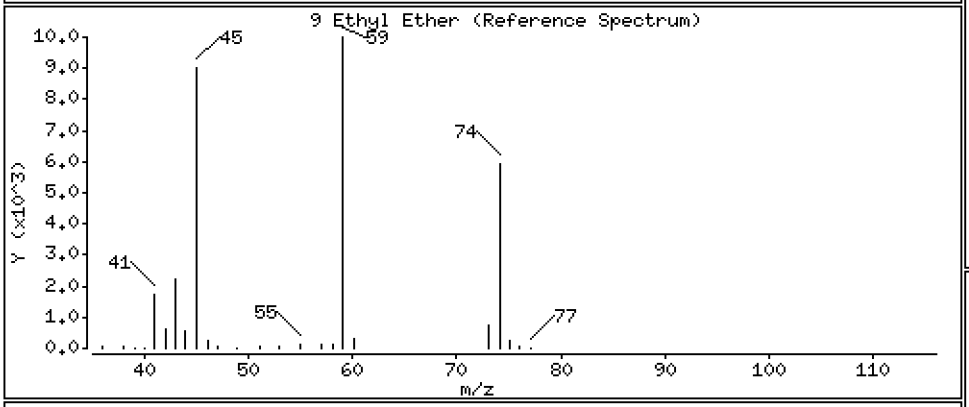
Purge Volume: 5.0 Operator: CJG

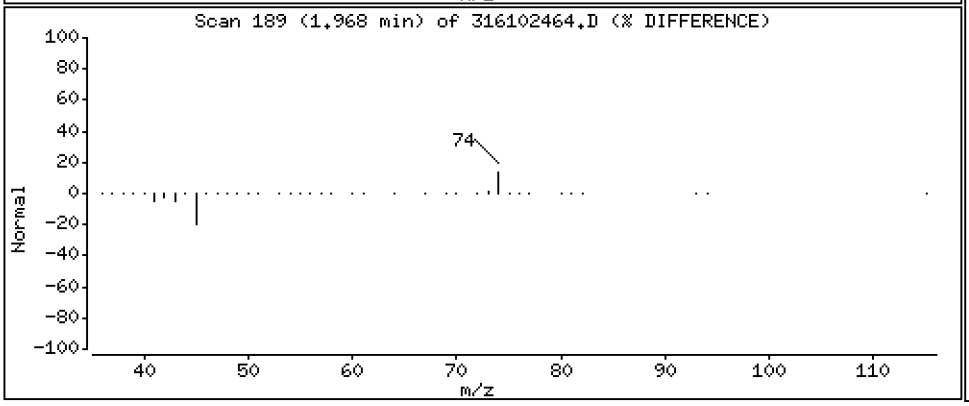
Column phase: DB-VRX Column diameter: 0.25

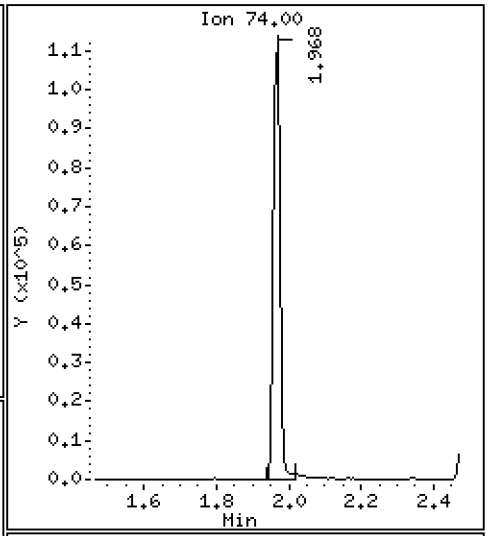
9 Ethyl Ether Concentration: 18.4606 ug/L

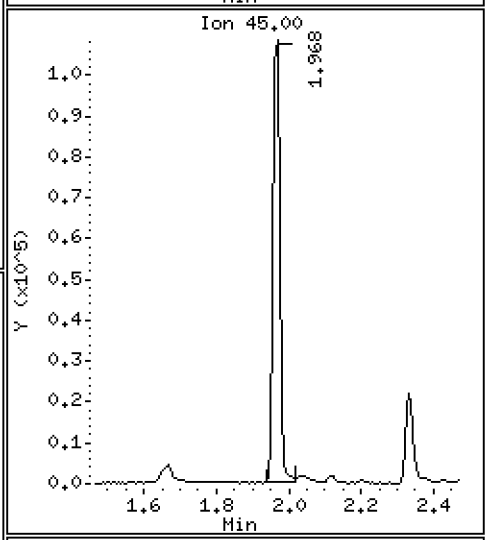


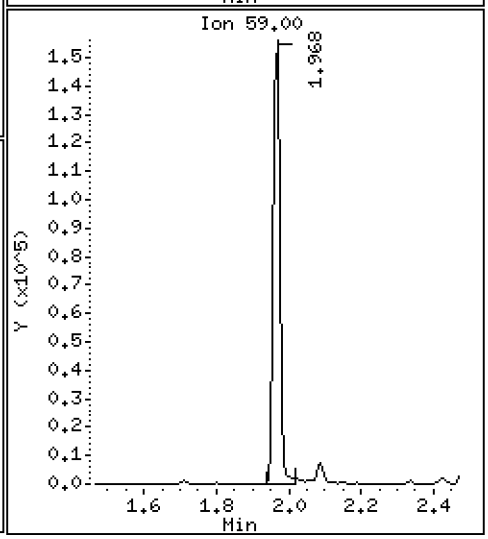












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 22

Date : 25-OCT-2016 03:26

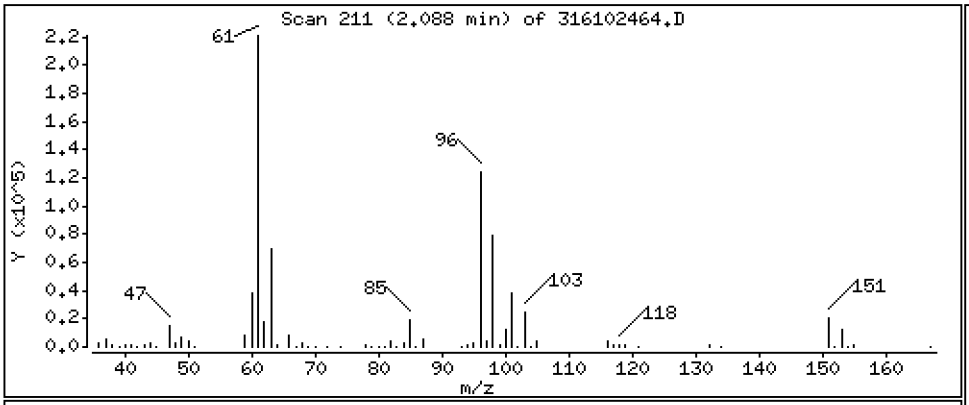
Client ID: LCS for HBN 174041 Instrument: ms03.i

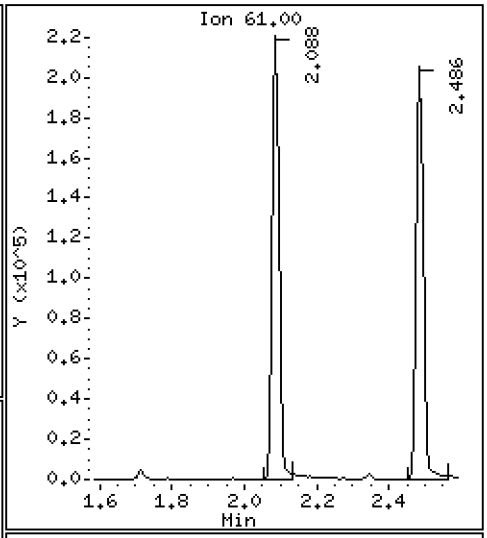
Sample Info: 2428716;;1;3;;LCS;1;

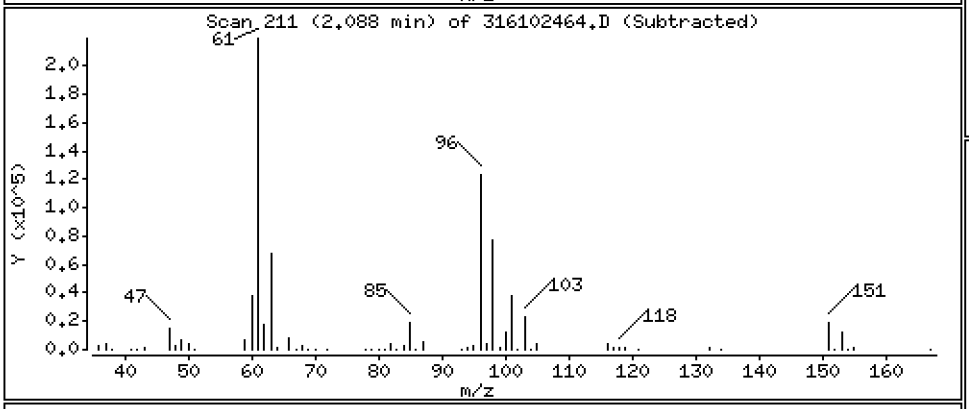
Purge Volume: 5.0 Operator: CJG

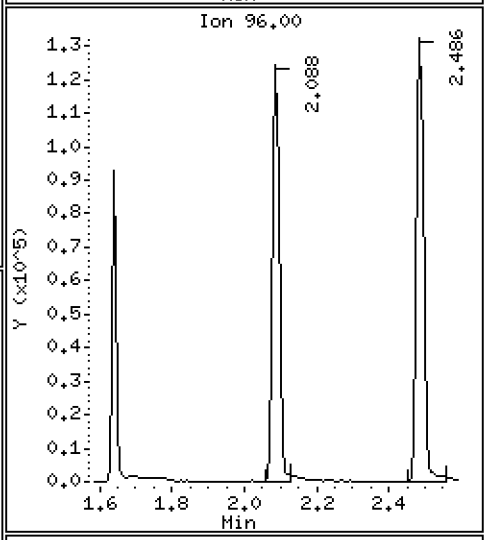
Column phase: DB-VRX Column diameter: 0.25

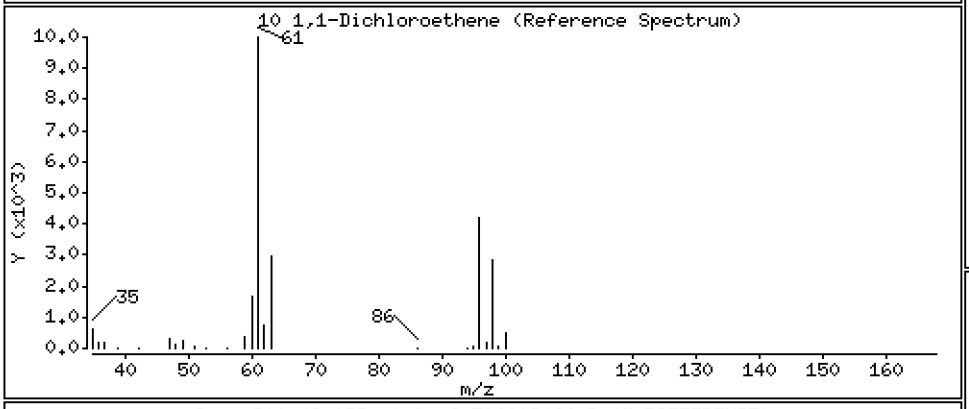
10 1,1-Dichloroethene Concentration: 18.3179 ug/L

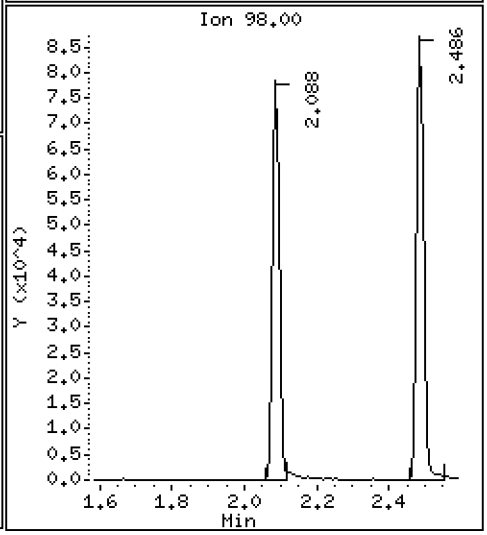


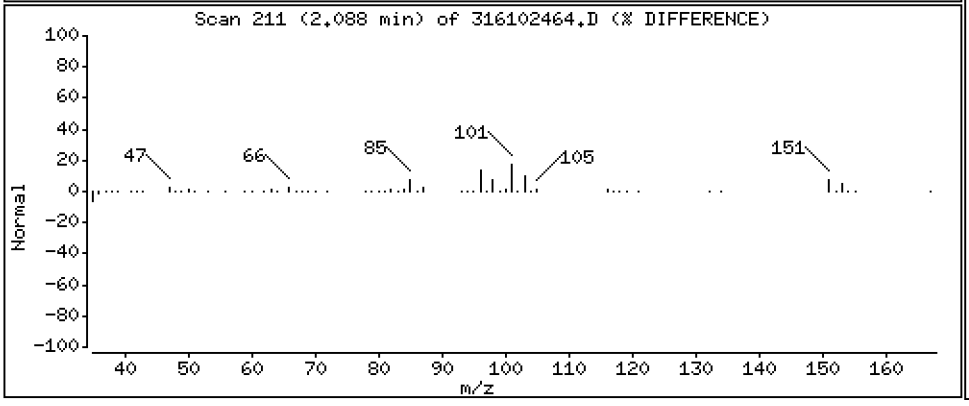












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 23

Date : 25-OCT-2016 03:26

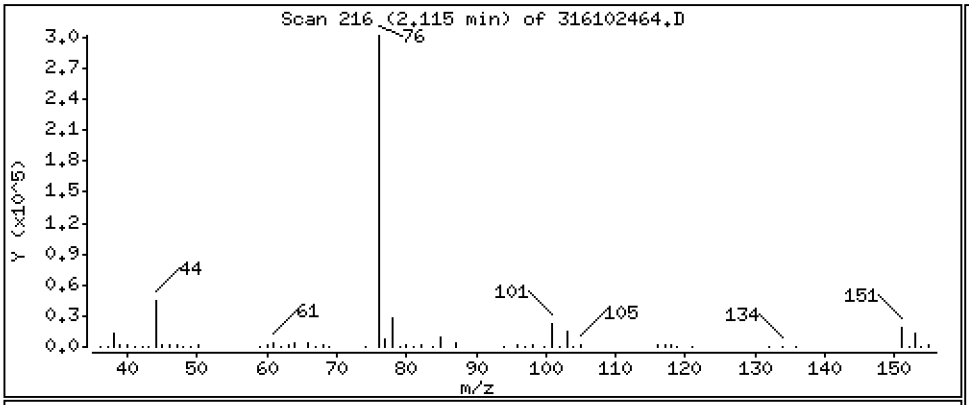
Client ID: LCS for HBN 174041 Instrument: ms03.i

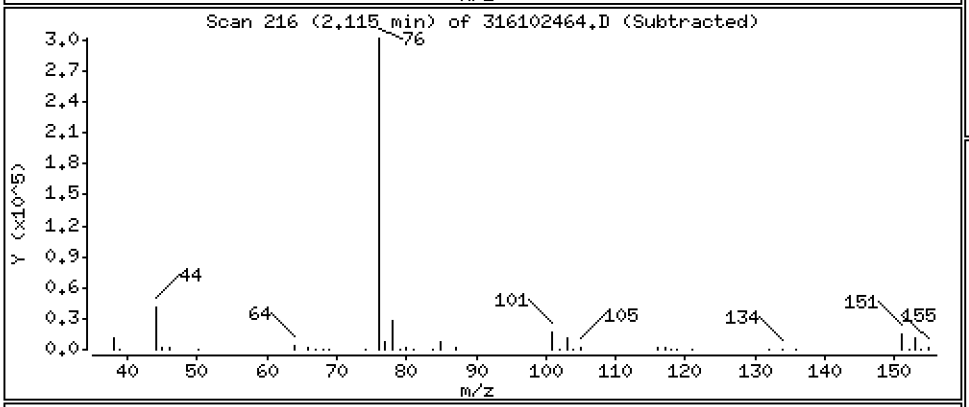
Sample Info: 2428716;;1;3;;LCS;1;

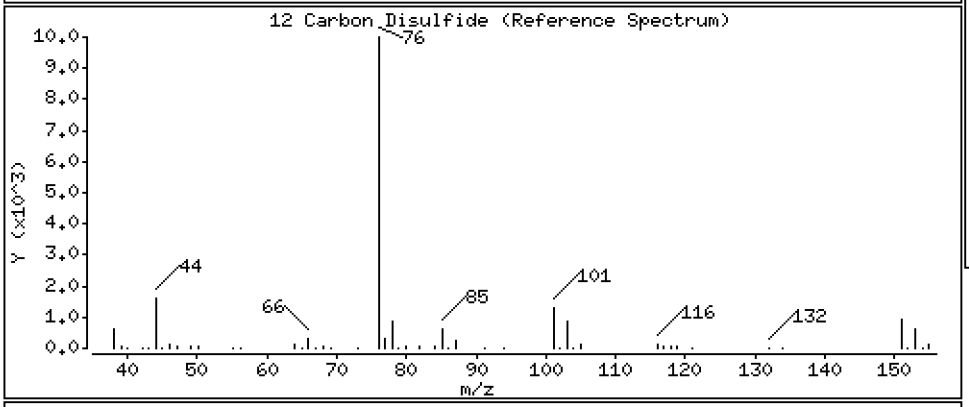
Purge Volume: 5.0 Operator: CJG

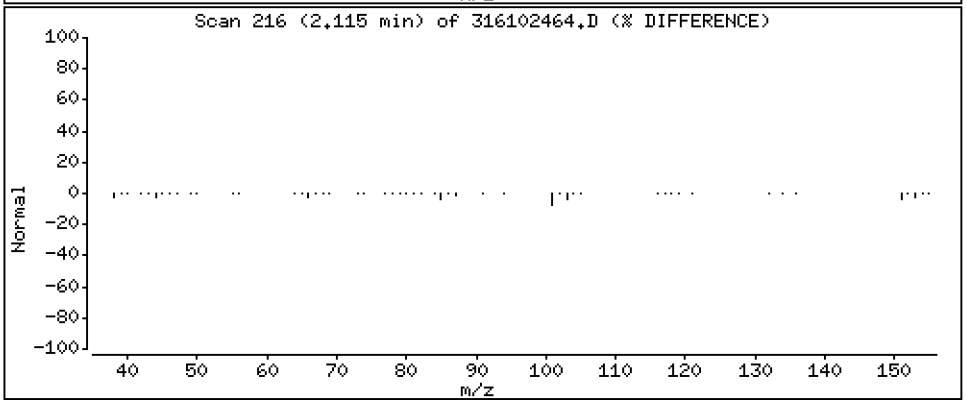
Column phase: DB-VRX Column diameter: 0.25

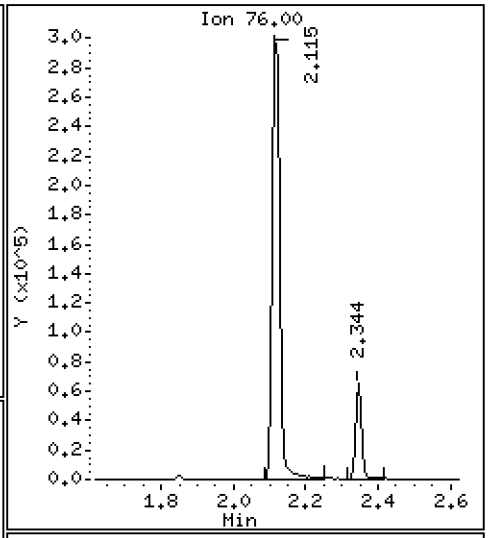
12 Carbon Disulfide Concentration: 16.0581 ug/L

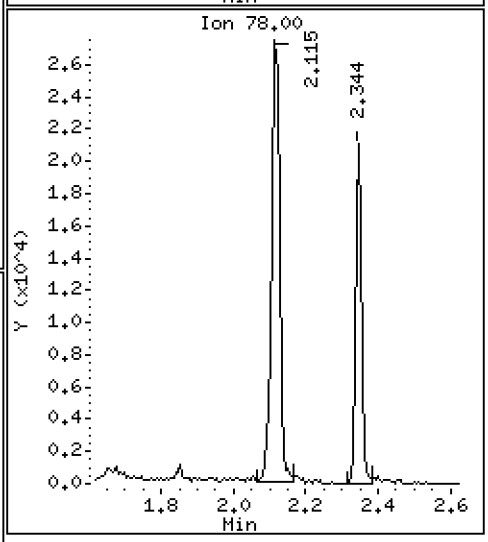












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 24

Date : 25-OCT-2016 03:26

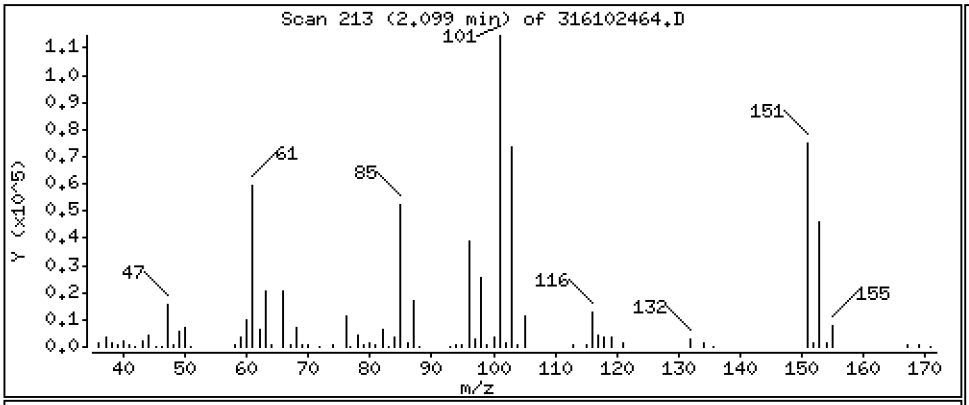
Client ID: LCS for HBN 174041 Instrument: ms03.i

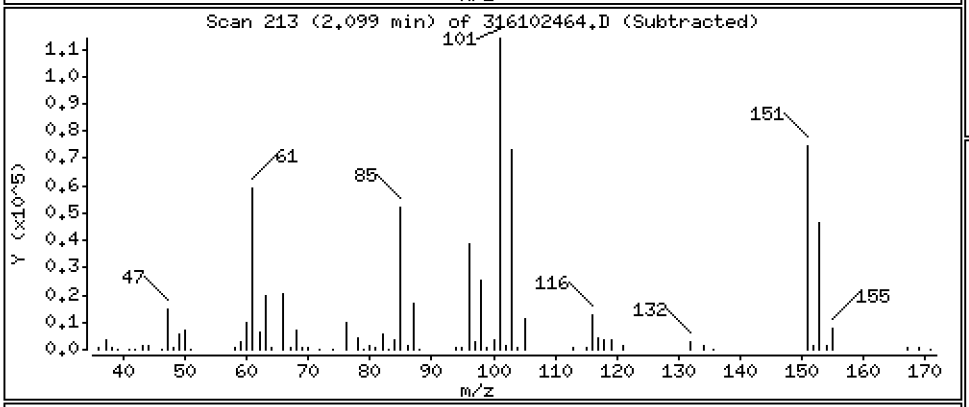
Sample Info: 2428716;;1;3;;LCS;1;

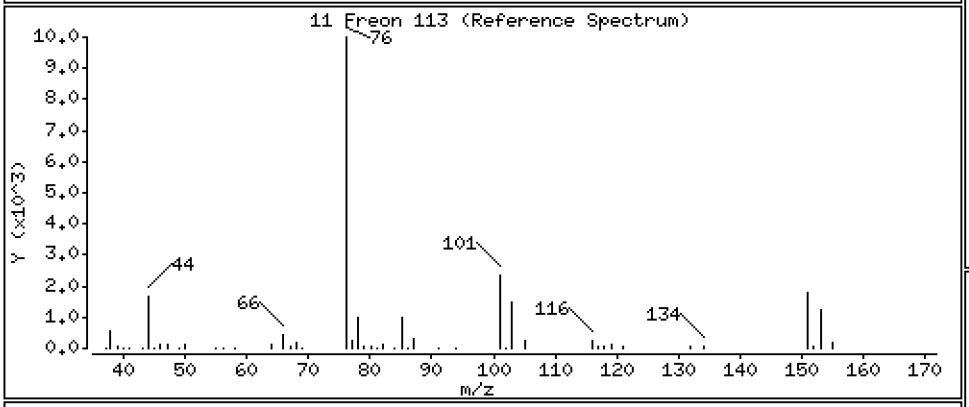
Purge Volume: 5.0 Operator: CJG

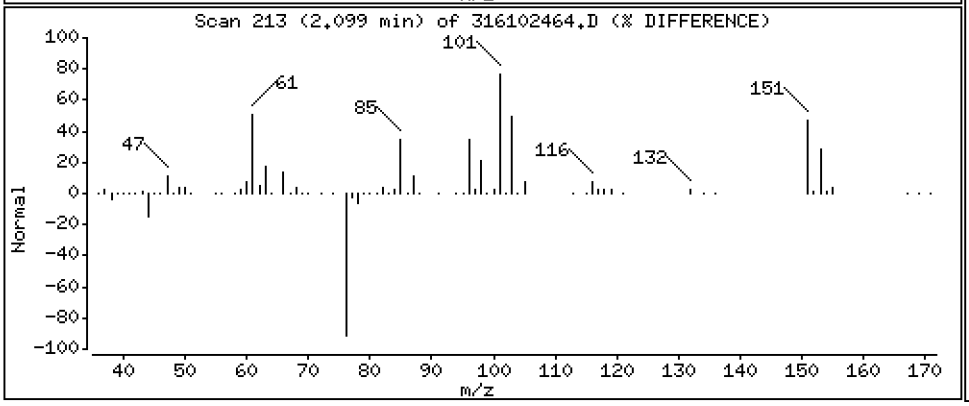
Column phase: DB-VRX Column diameter: 0.25

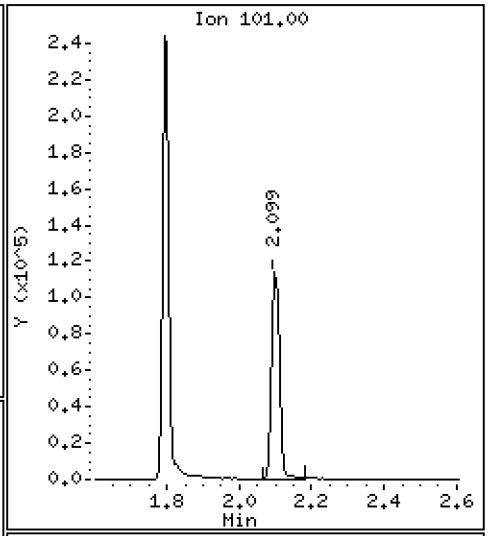
11 Freon 113 Concentration: 19.5274 ug/L

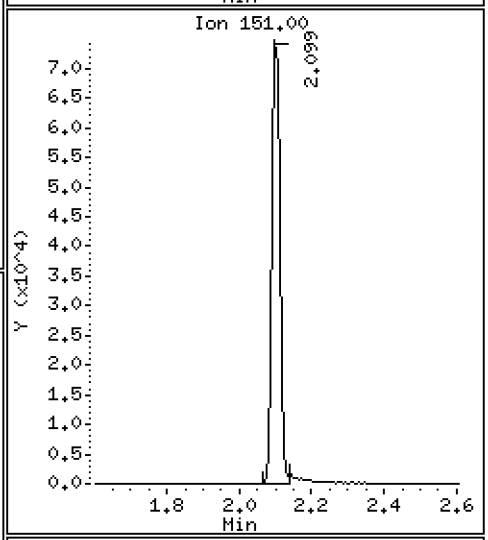


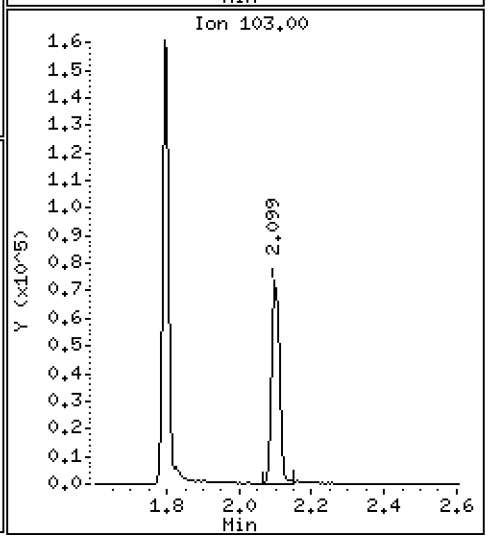












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 25

Date : 25-OCT-2016 03:26

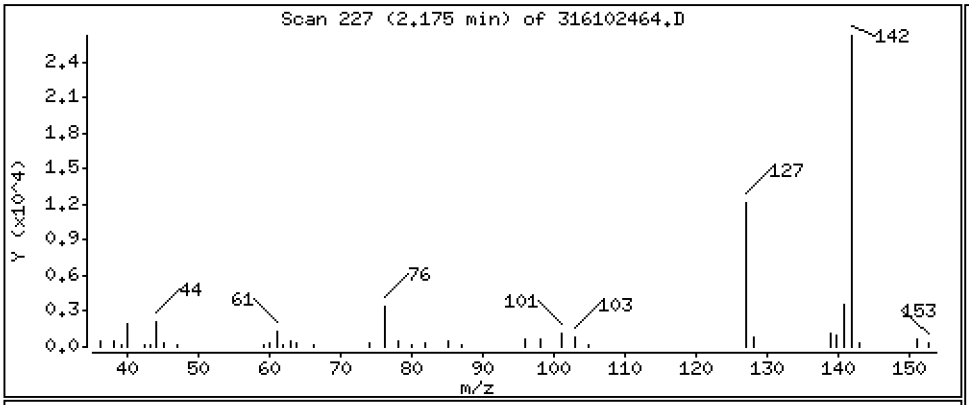
Client ID: LCS for HBN 174041 Instrument: ms03.i

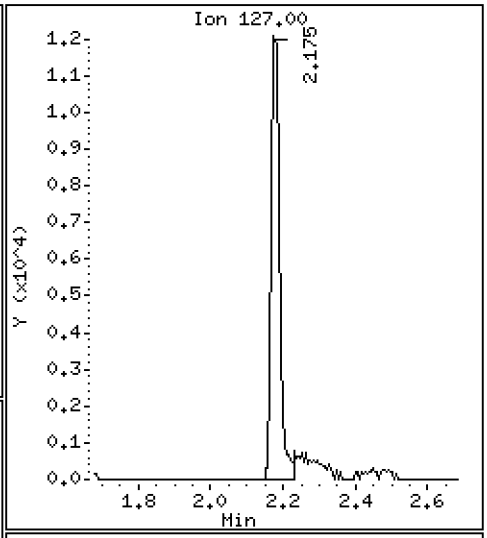
Sample Info: 2428716;;1;3;;LCS;1;

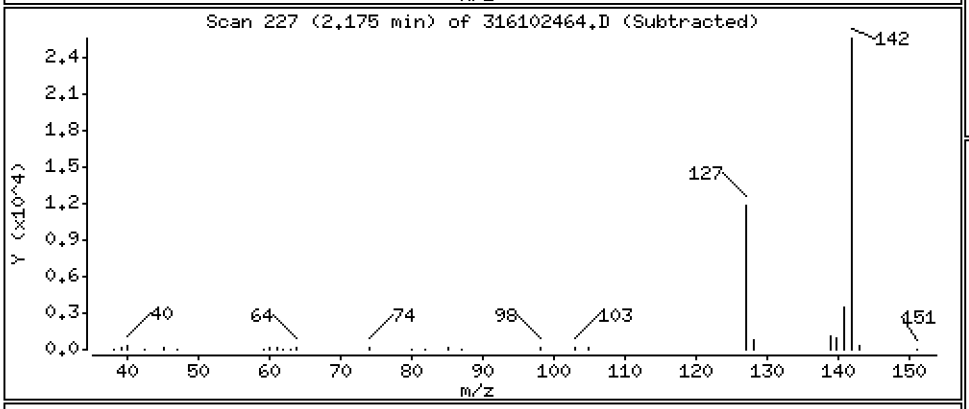
Purge Volume: 5.0 Operator: CJG

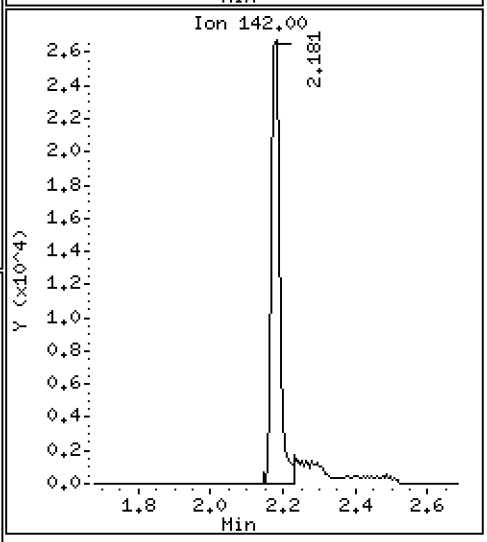
Column phase: DB-VRX Column diameter: 0.25

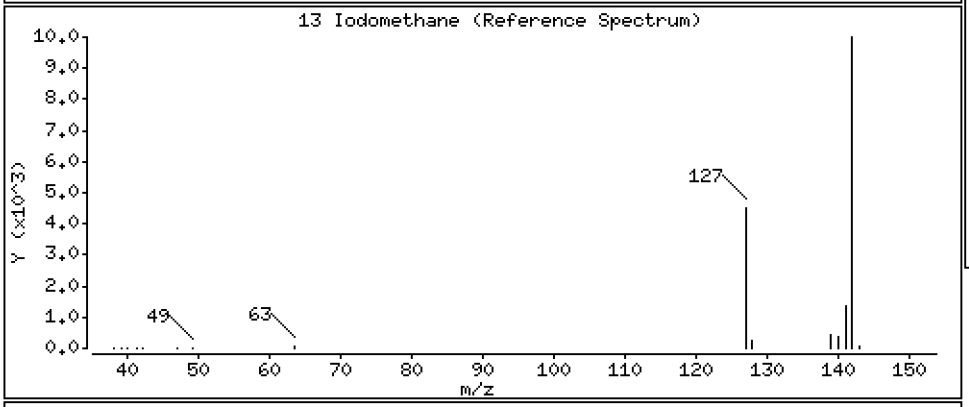
13 Iodomethane Concentration: 11.4797 ug/L

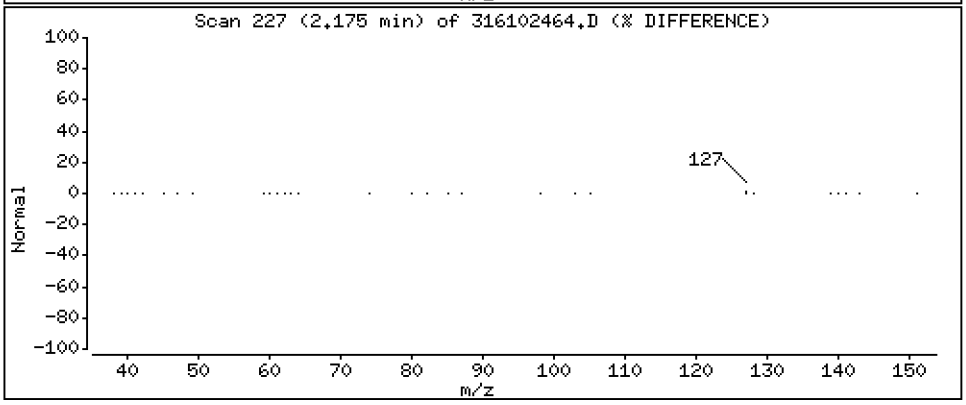












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 26

Date : 25-OCT-2016 03:26

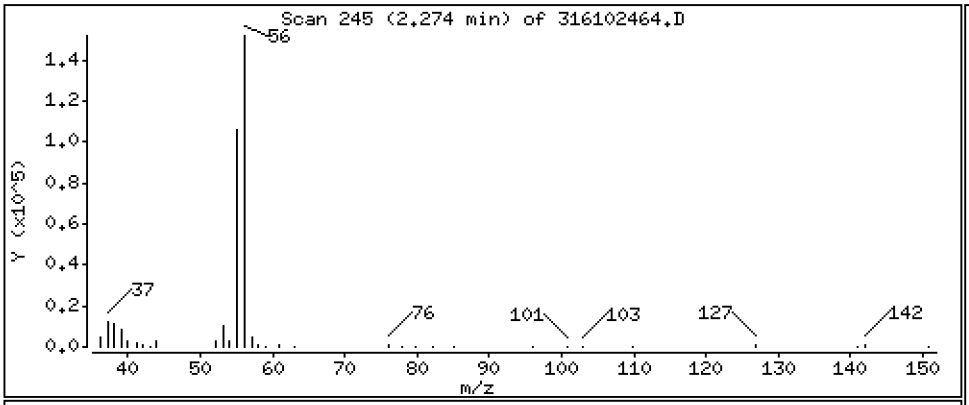
Client ID: LCS for HBN 174041 Instrument: ms03.i

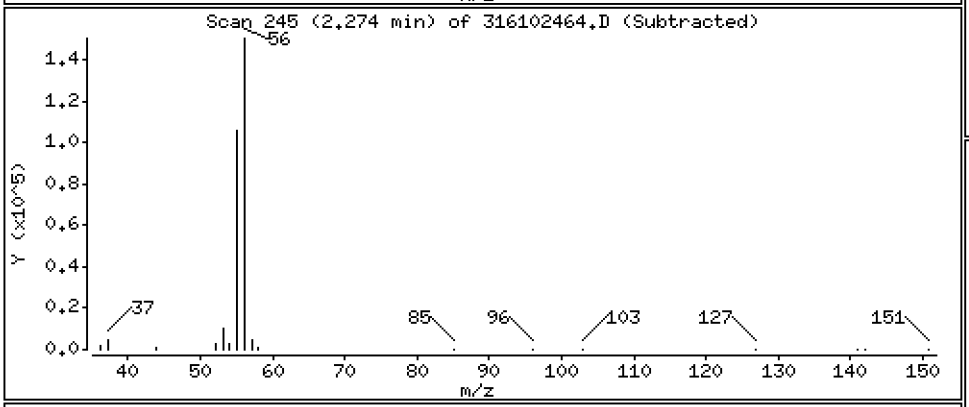
Sample Info: 2428716;;1;3;;LCS;1;

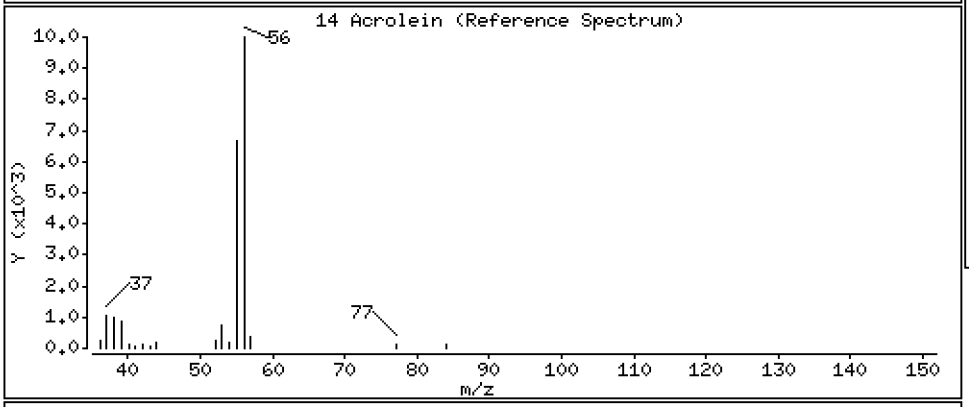
Purge Volume: 5.0 Operator: CJG

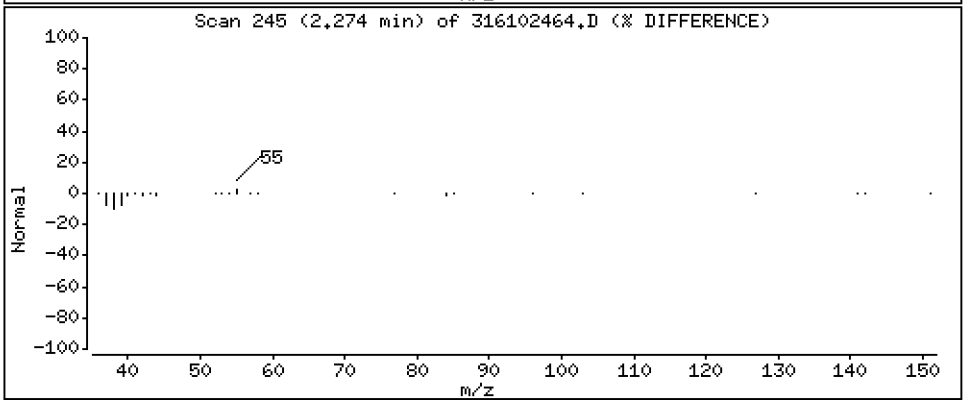
Column phase: DB-VRX Column diameter: 0.25

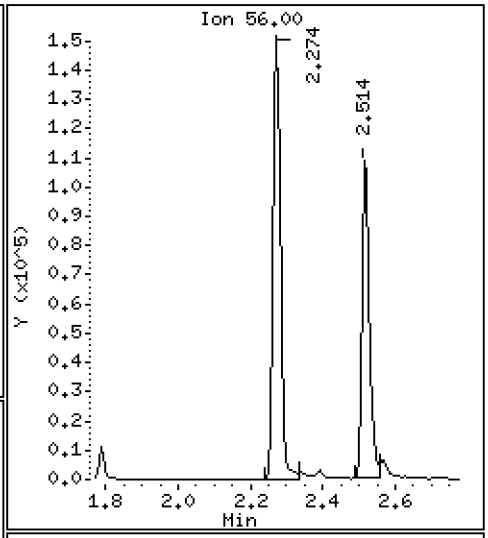
14 Acrolein Concentration: 146.427 ug/L

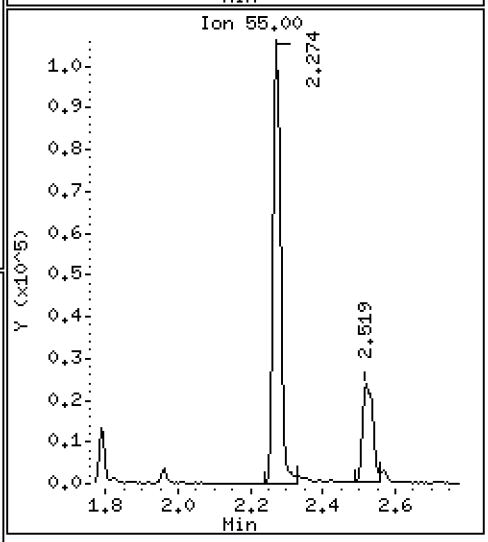












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 27

Date : 25-OCT-2016 03:26

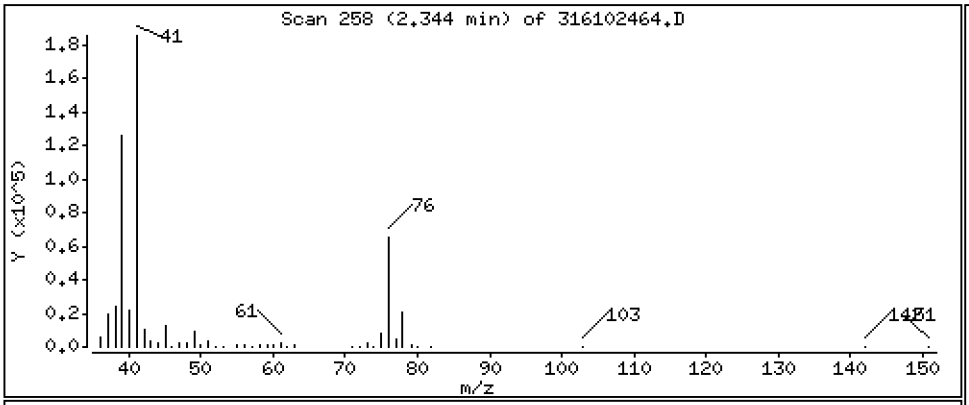
Client ID: LCS for HBN 174041 Instrument: ms03.i

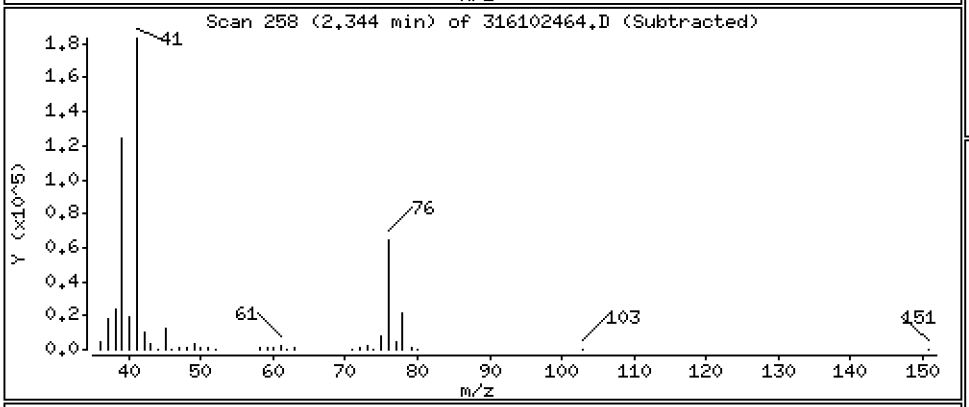
Sample Info: 2428716;;1;3;;LCS;1;

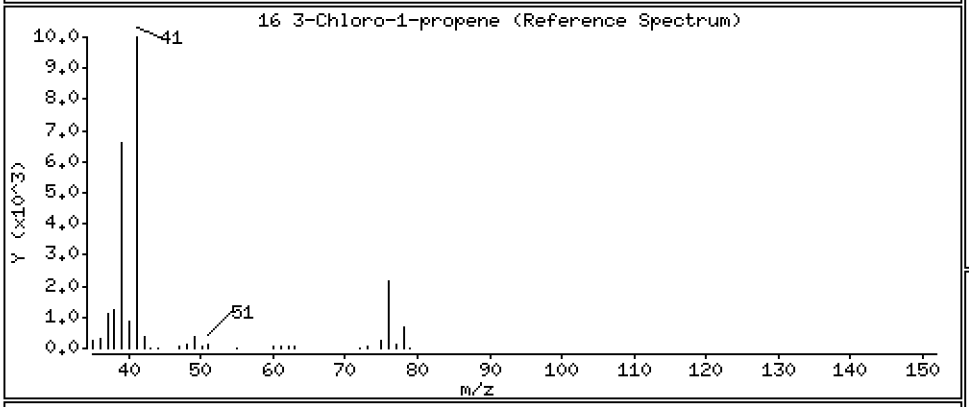
Purge Volume: 5.0 Operator: CJG

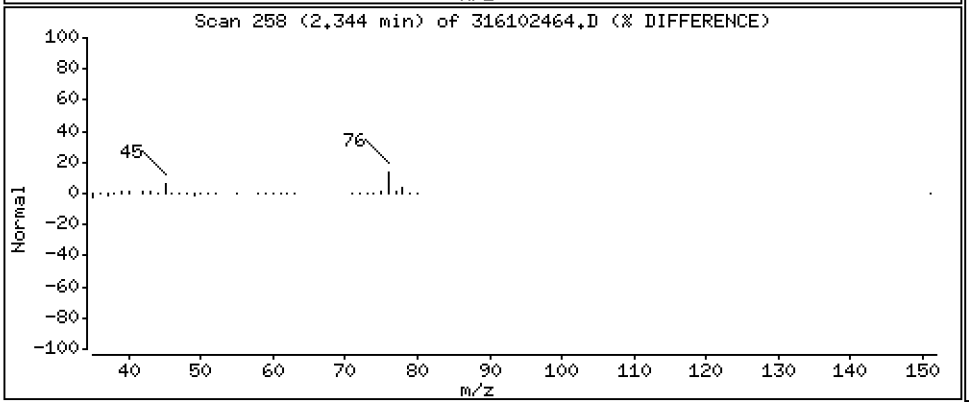
Column phase: DB-VRX Column diameter: 0.25

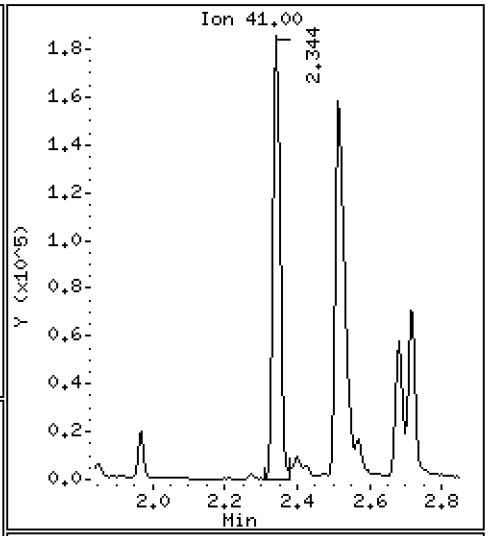
16 3-Chloro-1-propene Concentration: 19.2624 ug/L

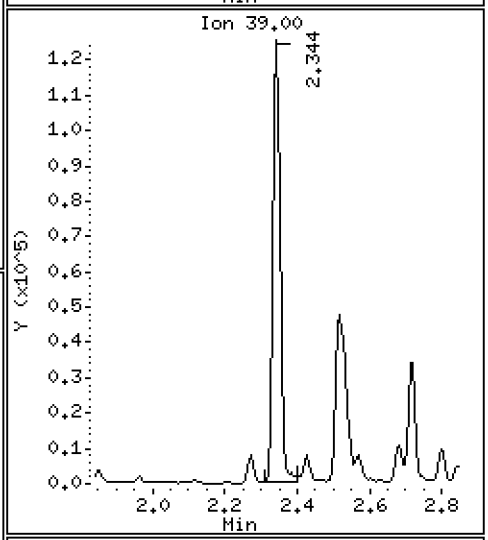


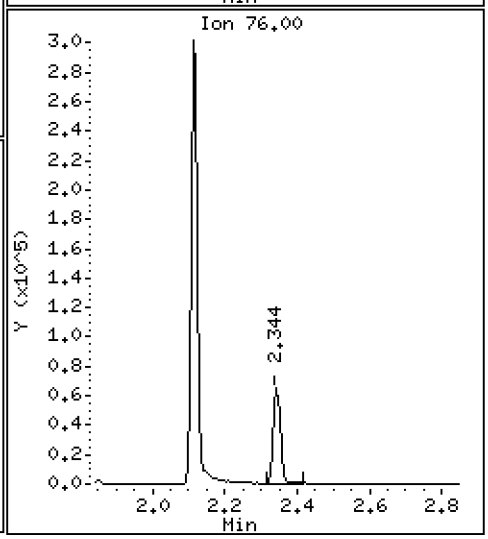












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 28

Date : 25-OCT-2016 03:26

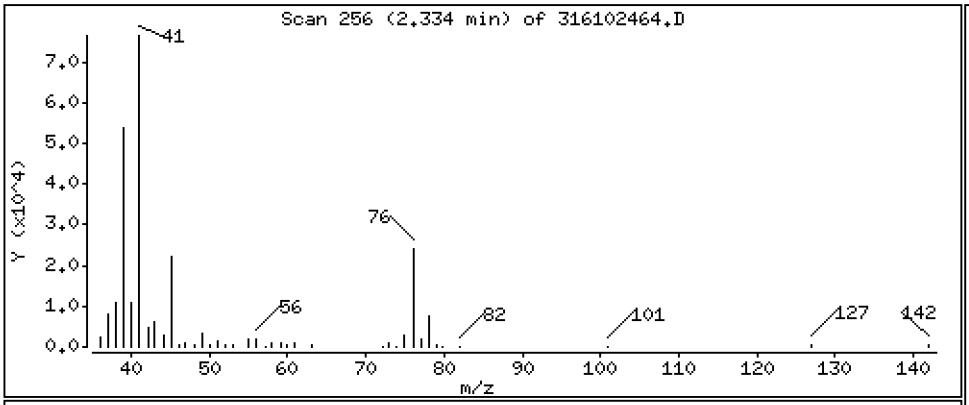
Client ID: LCS for HBN 174041 Instrument: ms03.i

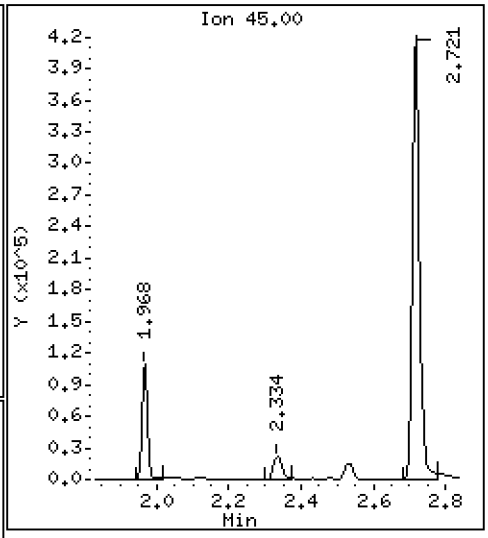
Sample Info: 2428716;;1;3;;LCS;1;

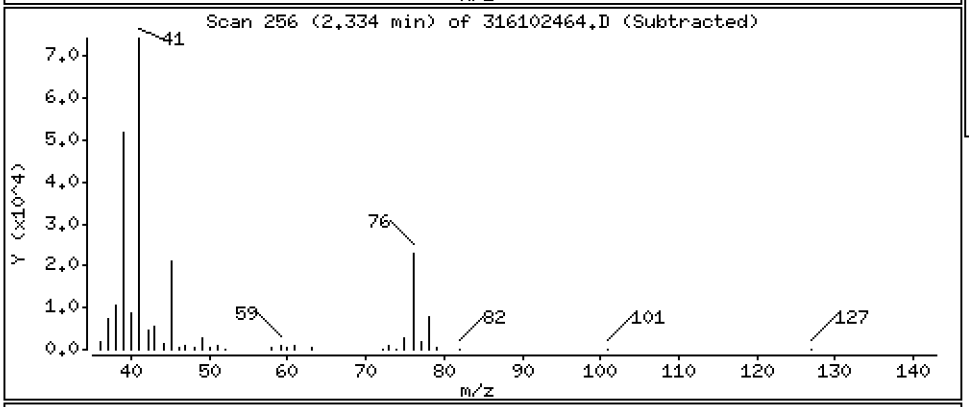
Purge Volume: 5.0 Operator: CJG

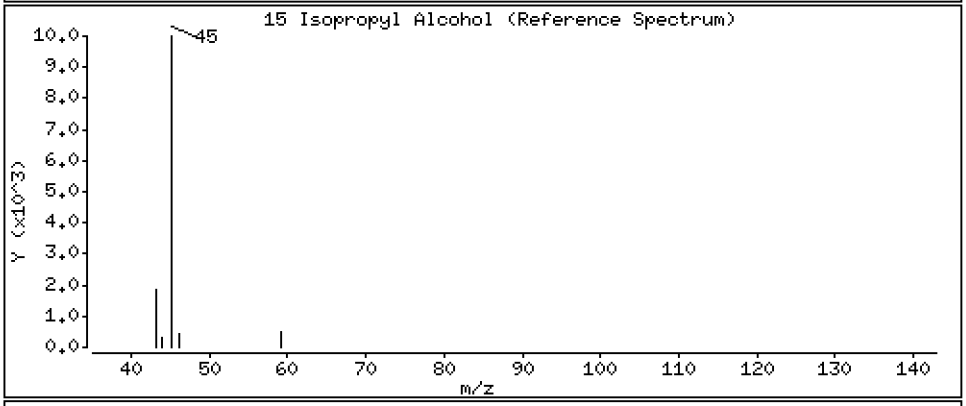
Column phase: DB-VRX Column diameter: 0.25

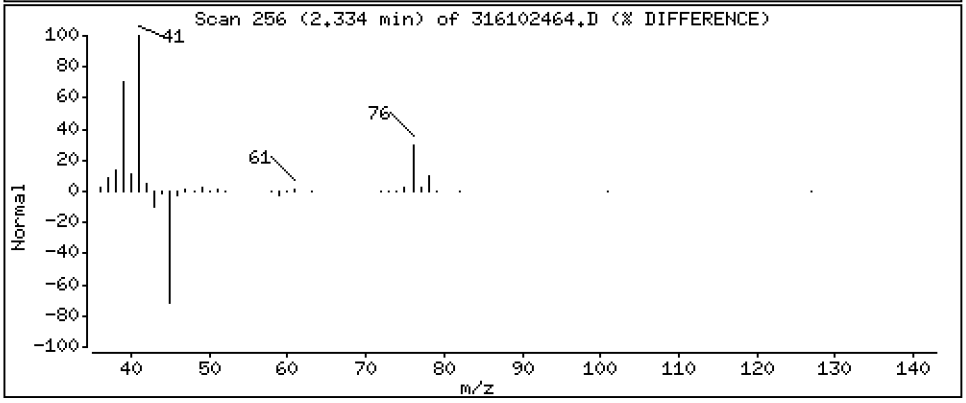
15 Isopropyl Alcohol Concentration: 116.280 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 29

Date : 25-OCT-2016 03:26

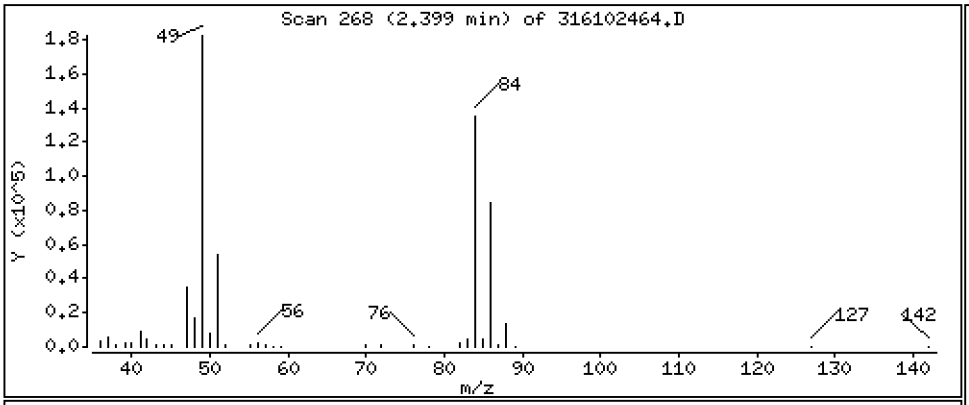
Client ID: LCS for HBN 174041 Instrument: ms03.i

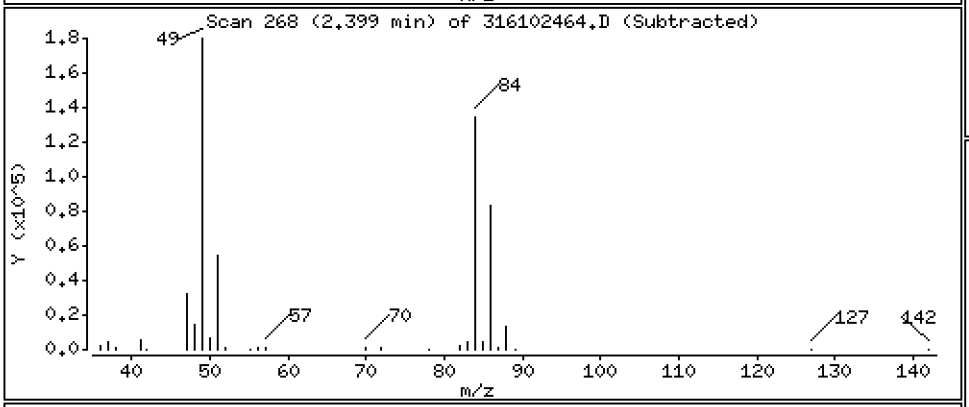
Sample Info: 2428716;;1;3;;LCS;1;

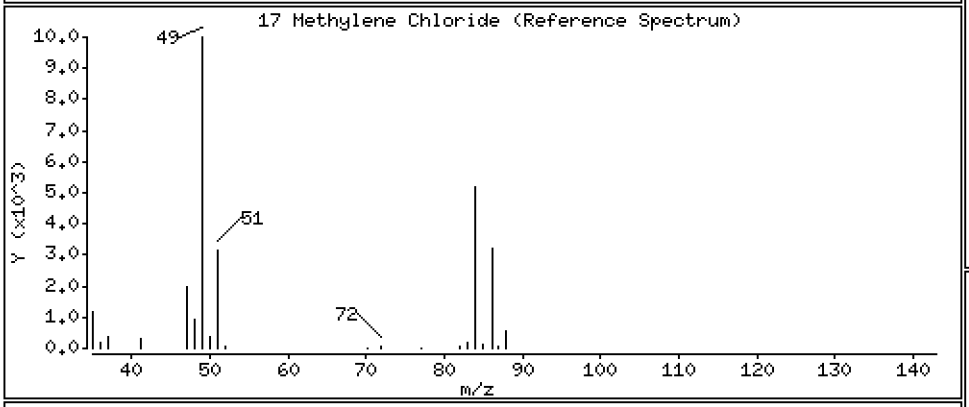
Purge Volume: 5.0 Operator: CJG

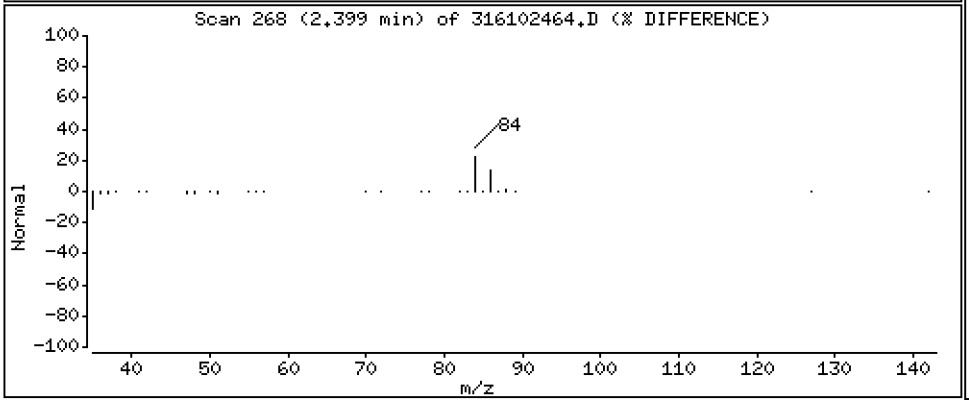
Column phase: DB-VRX Column diameter: 0.25

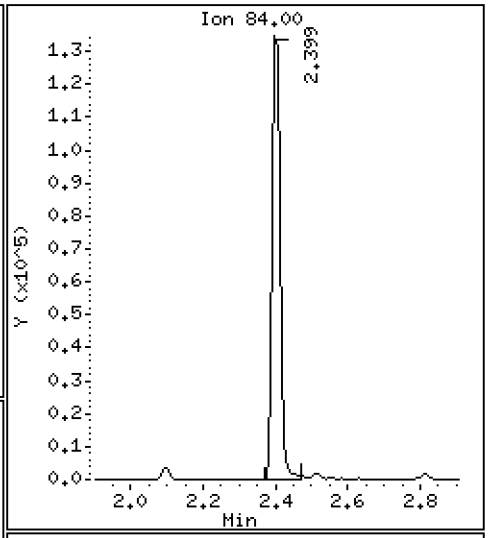
17 Methylene Chloride Concentration: 19.4470 ug/L

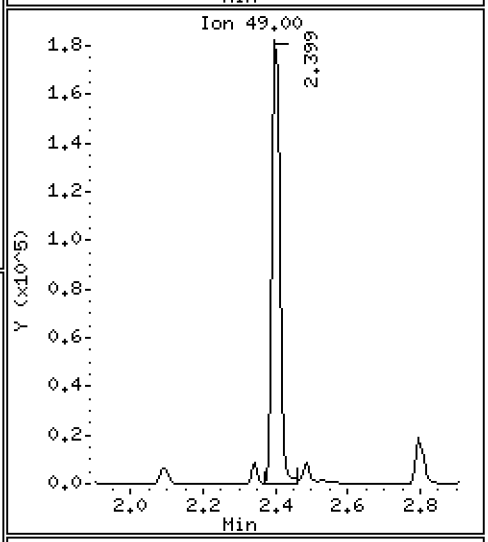


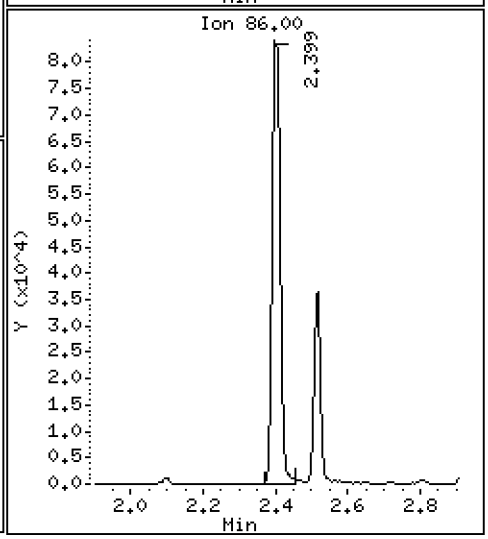












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 30

Date : 25-OCT-2016 03:26

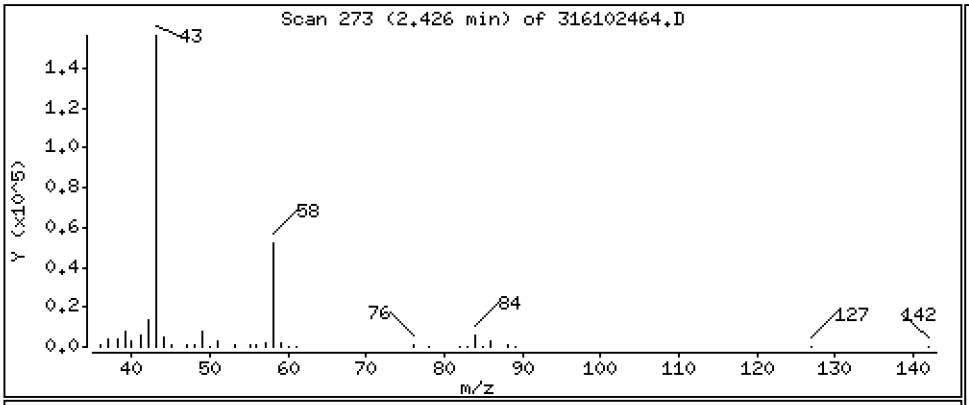
Client ID: LCS for HBN 174041 Instrument: ms03.i

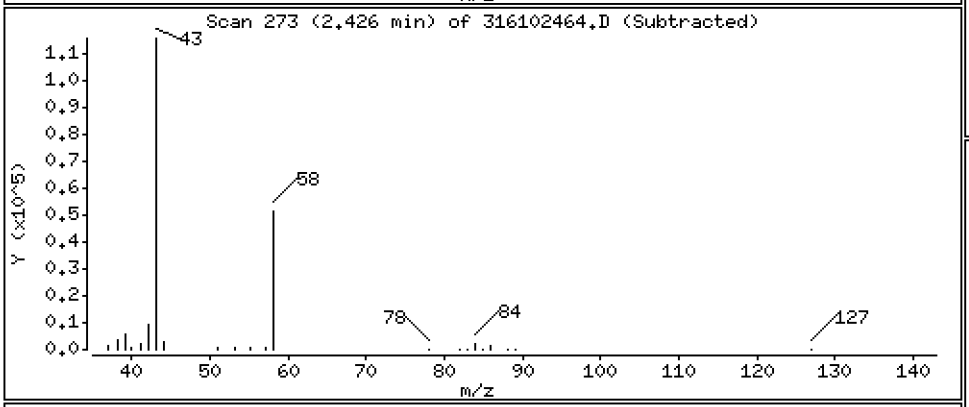
Sample Info: 2428716;;1;3;;LCS;1;

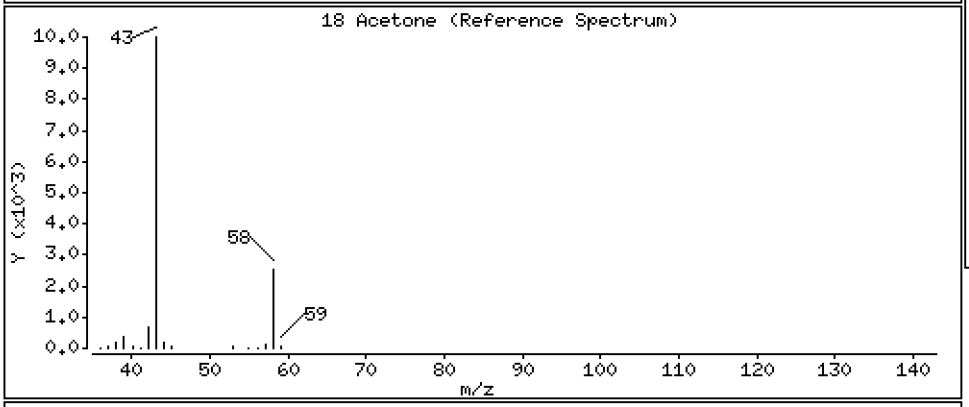
Purge Volume: 5.0 Operator: CJG

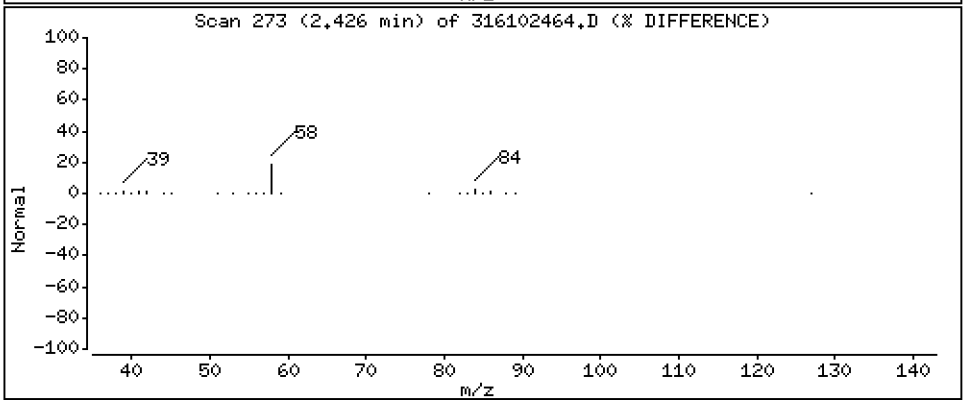
Column phase: DB-VRX Column diameter: 0.25

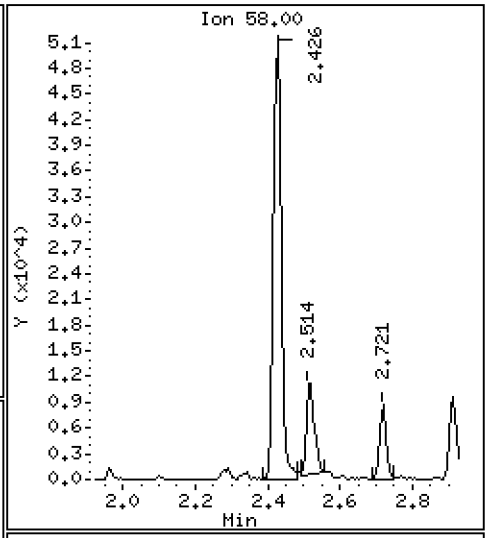
18 Acetone Concentration: 96.5141 ug/L

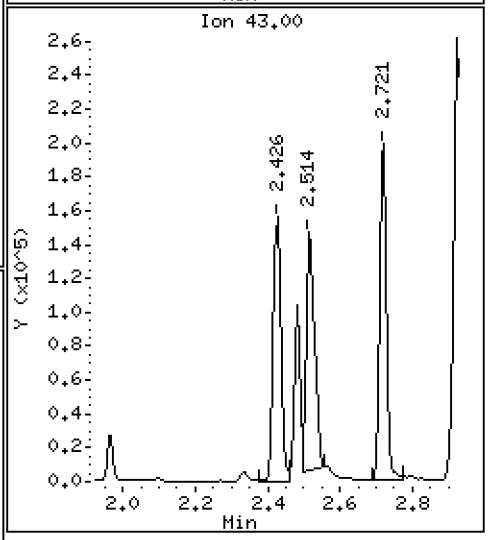












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 31

Date : 25-OCT-2016 03:26

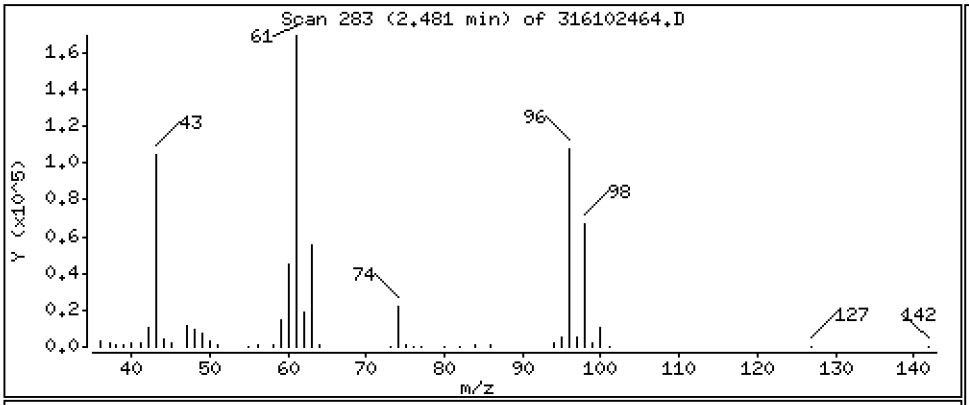
Client ID: LCS for HBN 174041 Instrument: ms03.i

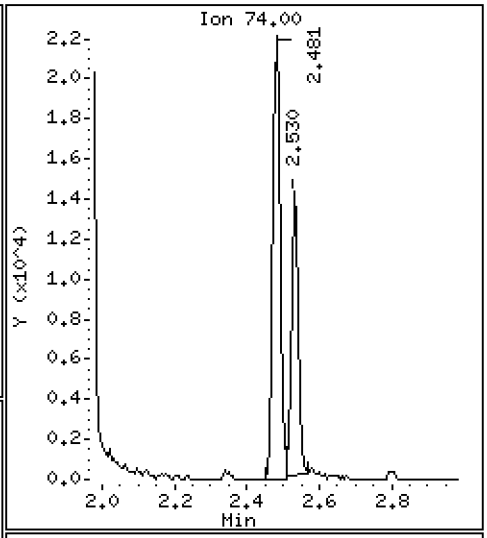
Sample Info: 2428716;;1;3;;LCS;1;

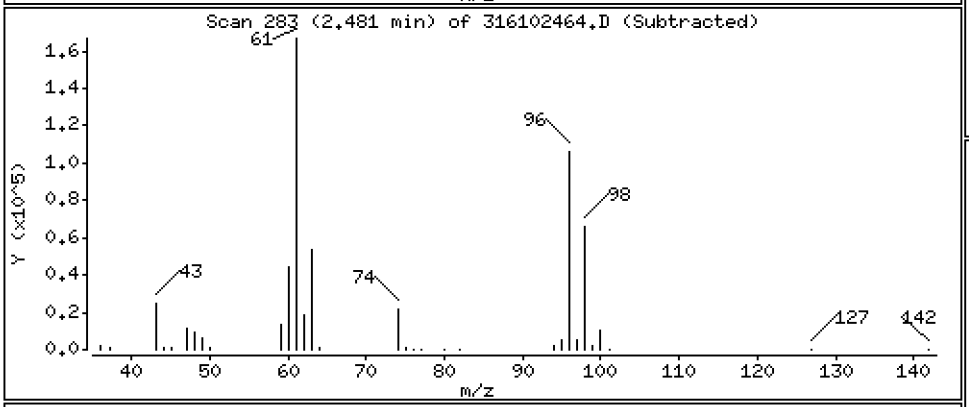
Purge Volume: 5.0 Operator: CJG

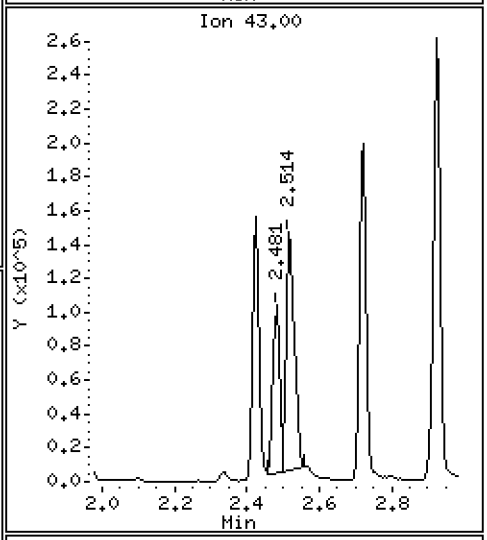
Column phase: DB-VRX Column diameter: 0.25

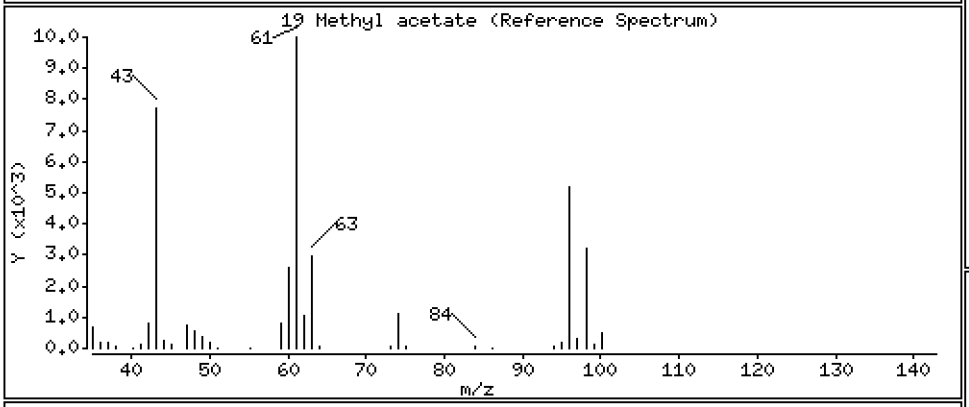
19 Methyl acetate Concentration: 19.3839 ug/L

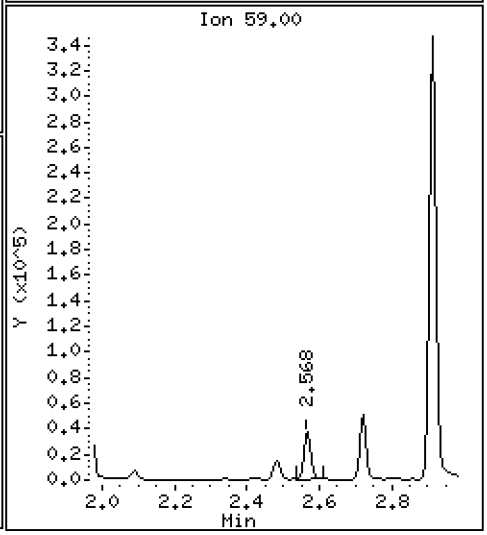


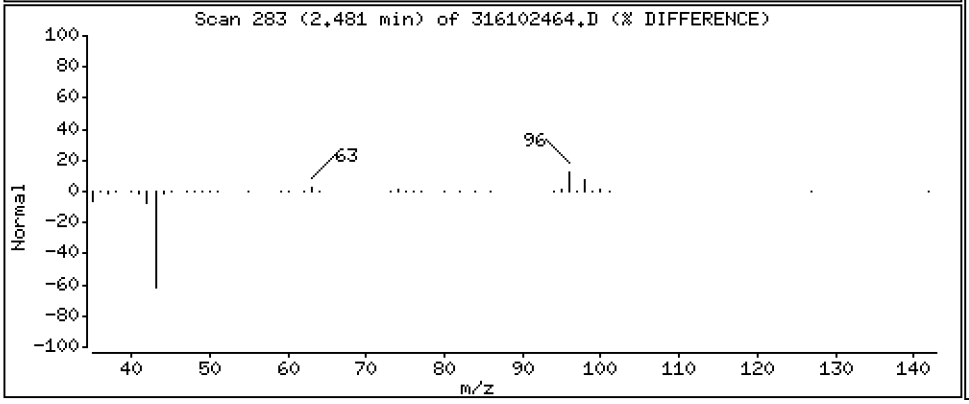












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 32

Date : 25-OCT-2016 03:26

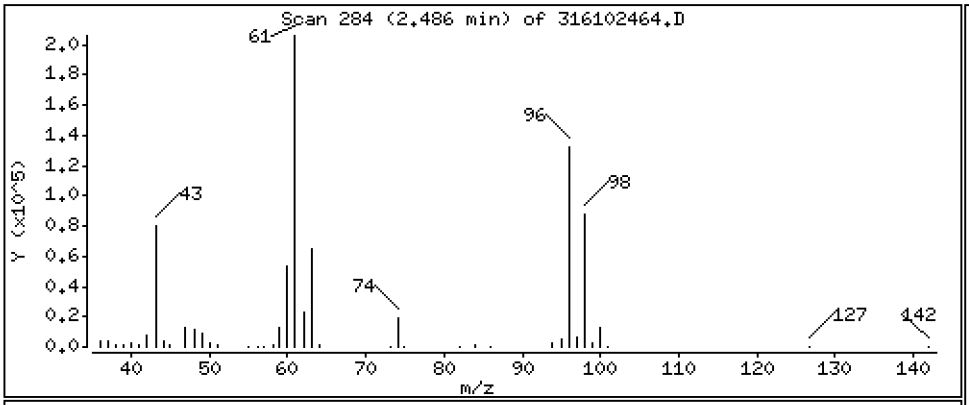
Client ID: LCS for HBN 174041 Instrument: ms03.i

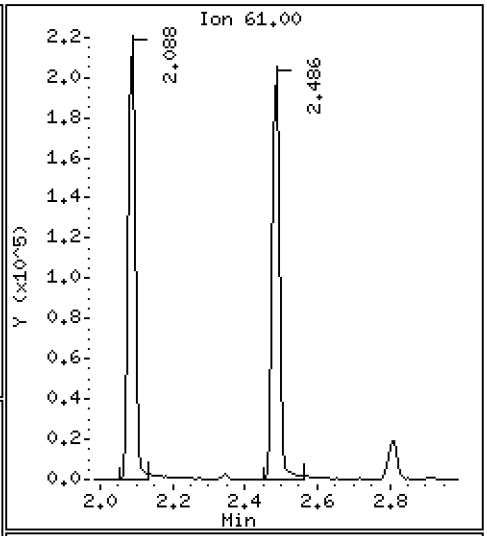
Sample Info: 2428716;;1;3;;LCS;1;

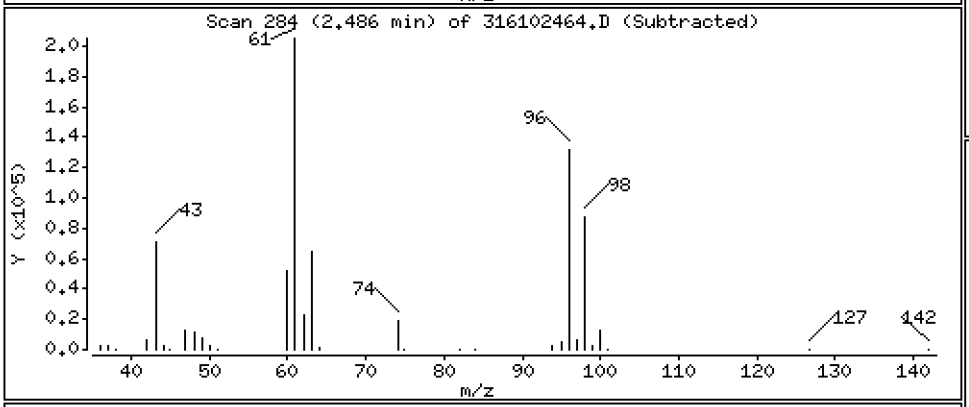
Purge Volume: 5.0 Operator: CJG

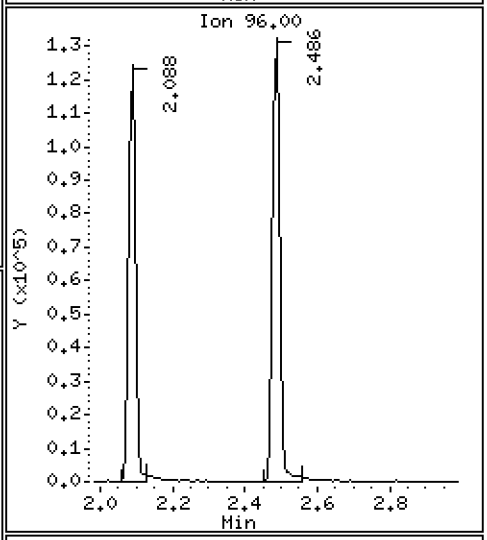
Column phase: DB-VRX Column diameter: 0.25

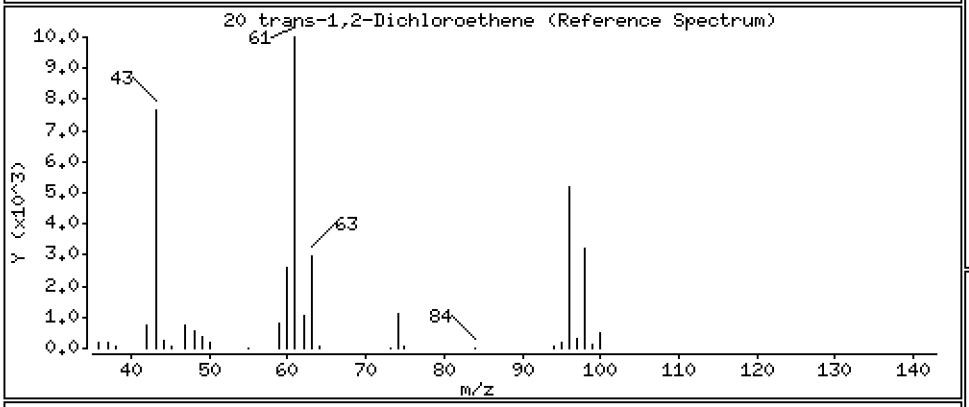
20 trans-1,2-Dichloroethene Concentration: 18.6329 ug/L

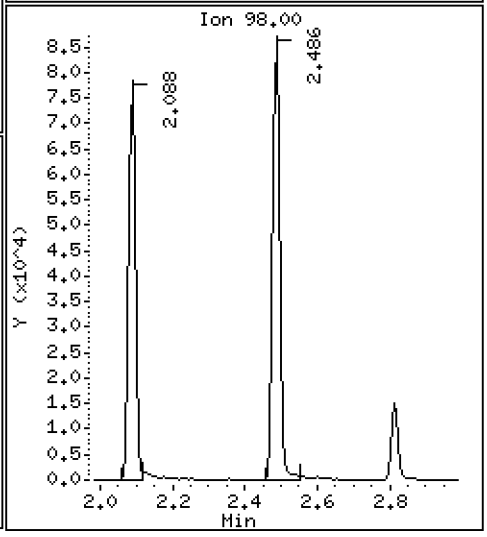


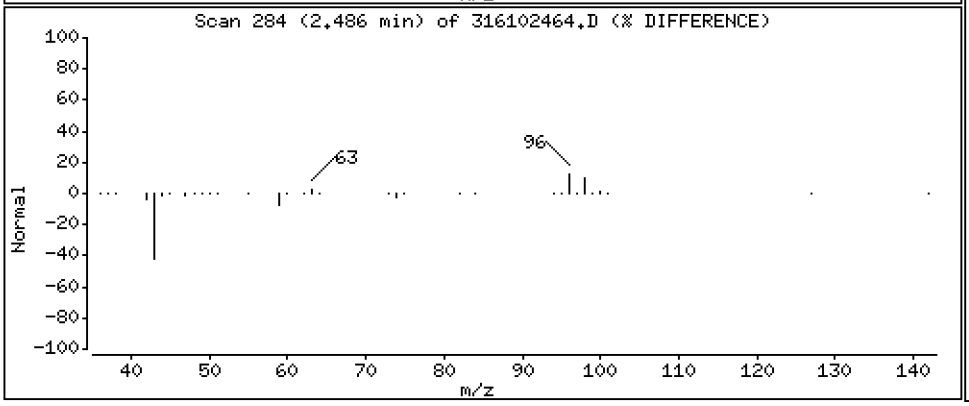












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 33

Date : 25-OCT-2016 03:26

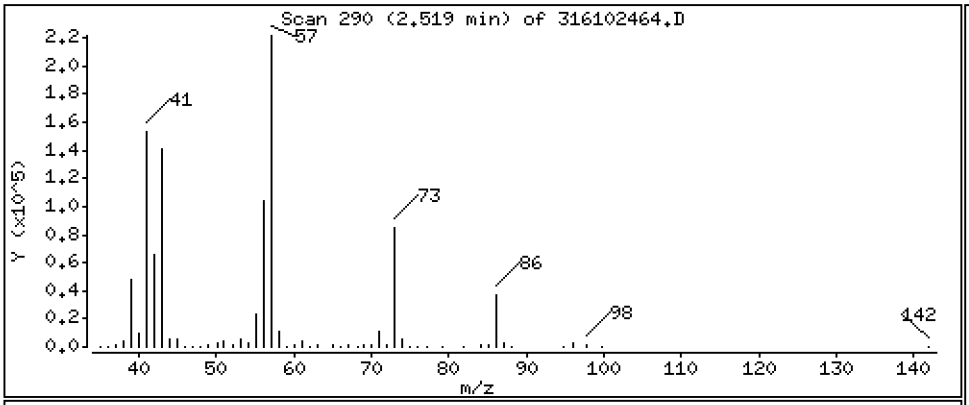
Client ID: LCS for HBN 174041 Instrument: ms03.i

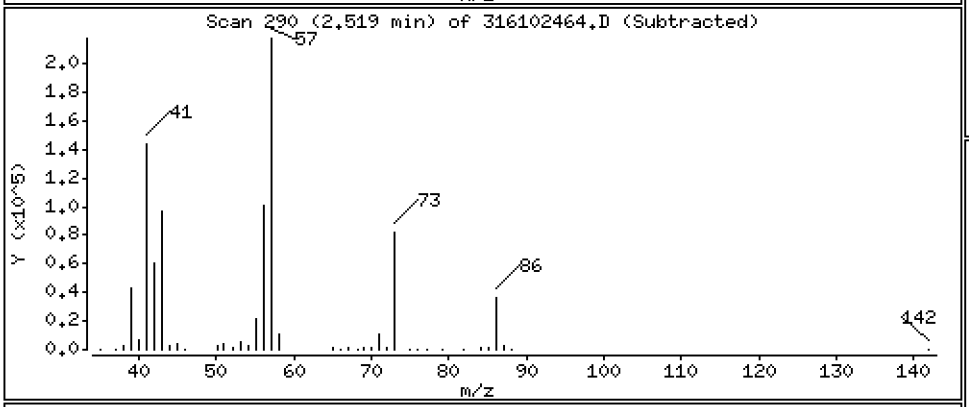
Sample Info: 2428716;;1;3;;LCS;1;

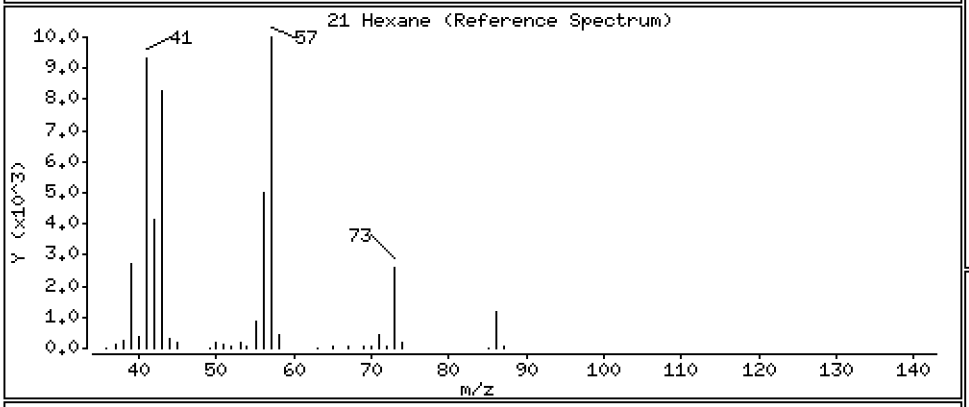
Purge Volume: 5.0 Operator: CJG

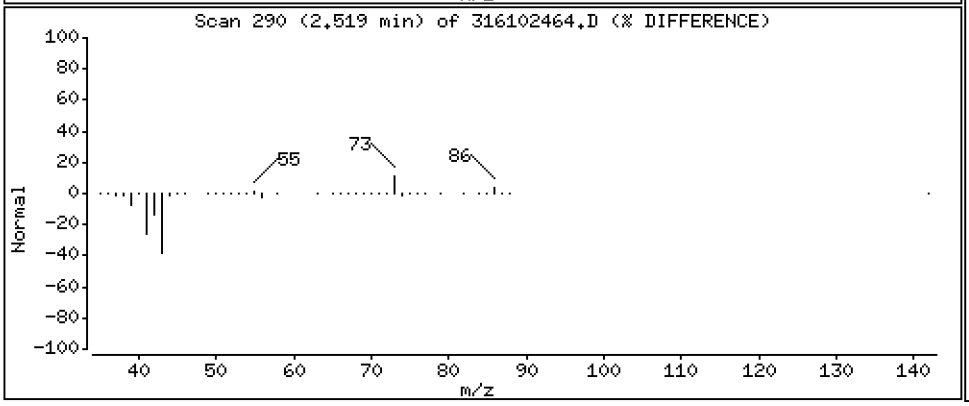
Column phase: DB-VRX Column diameter: 0.25

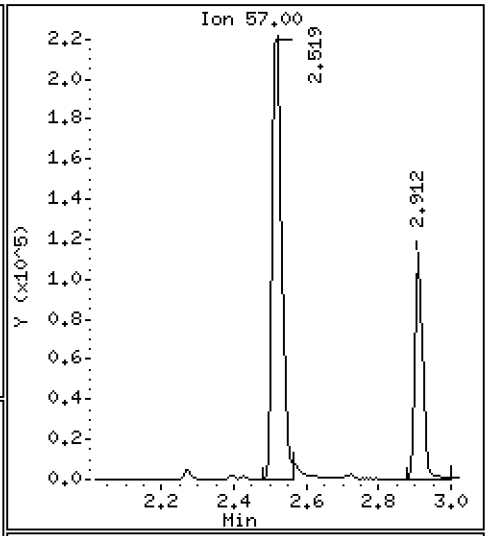
21 Hexane Concentration: 19.2294 ug/L

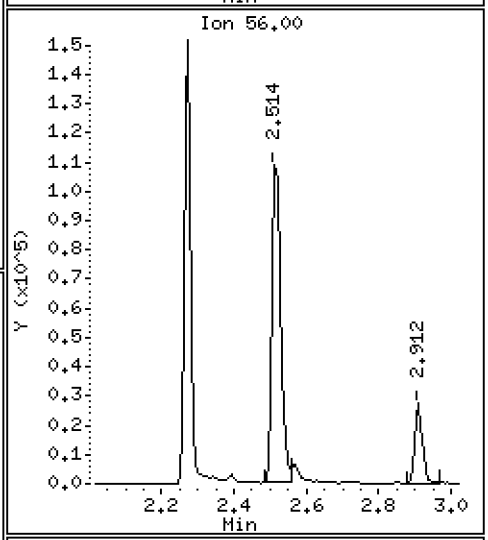


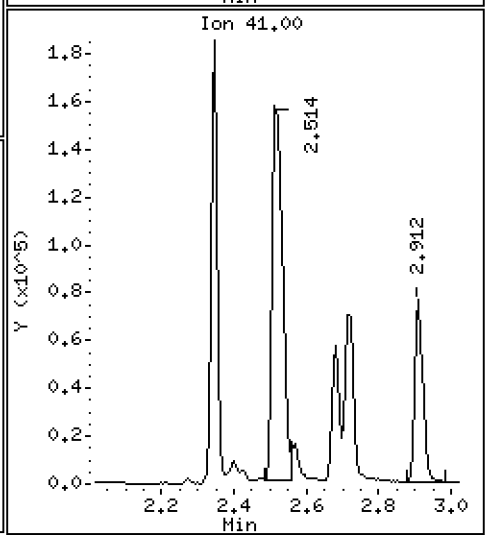












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 34

Date : 25-OCT-2016 03:26

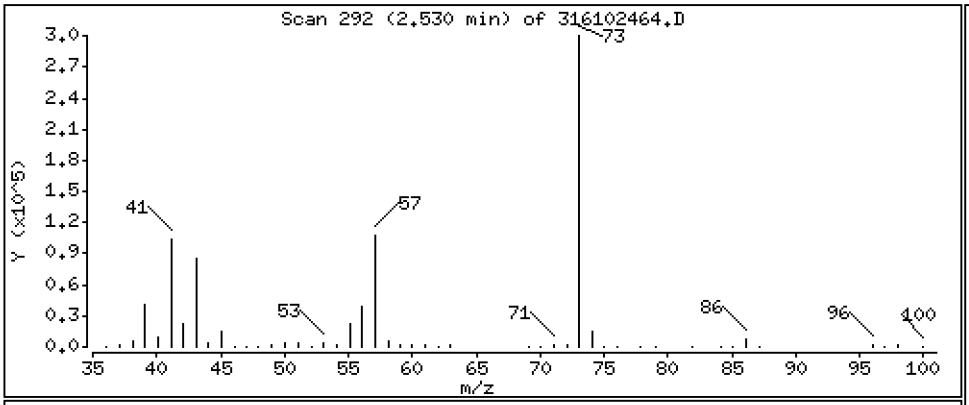
Client ID: LCS for HBN 174041 Instrument: ms03.i

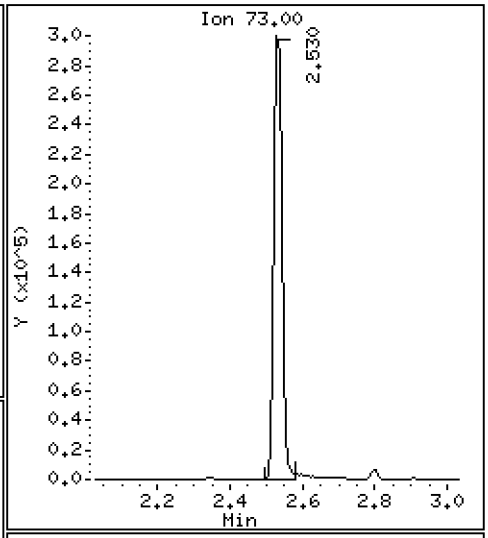
Sample Info: 2428716;;1;3;;LCS;1;

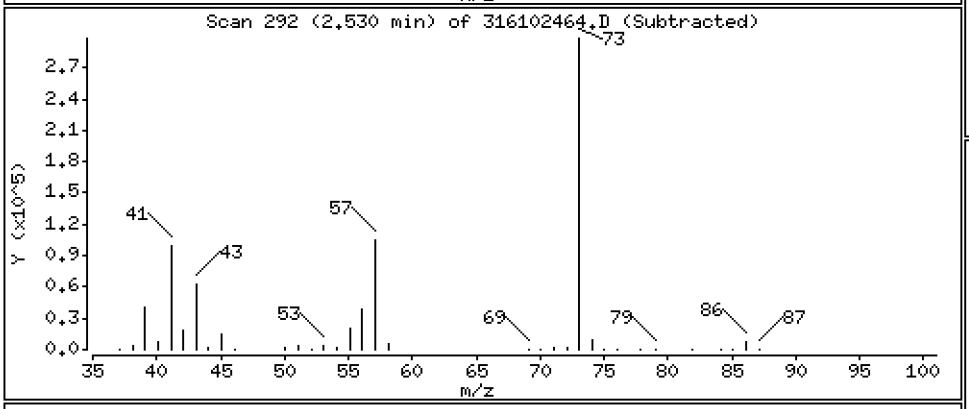
Purge Volume: 5.0 Operator: CJG

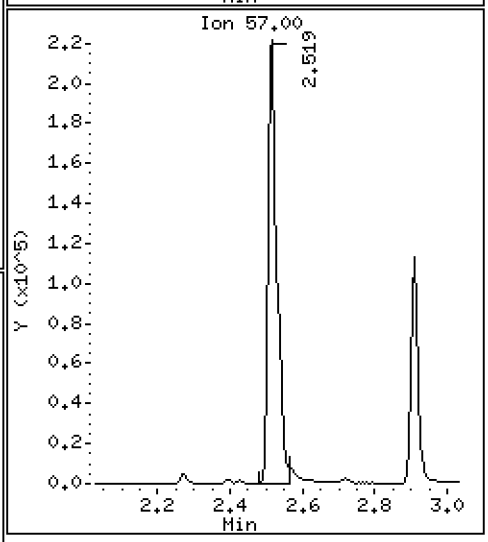
Column phase: DB-VRX Column diameter: 0.25

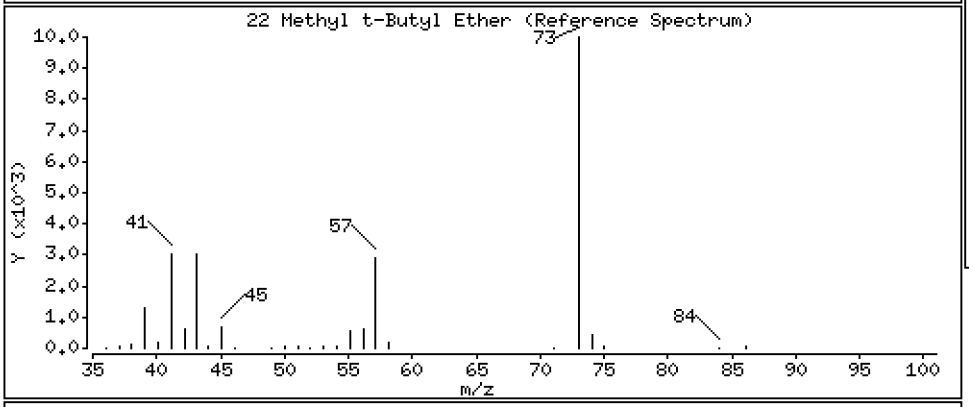
22 Methyl t-Butyl Ether Concentration: 17.9253 ug/L

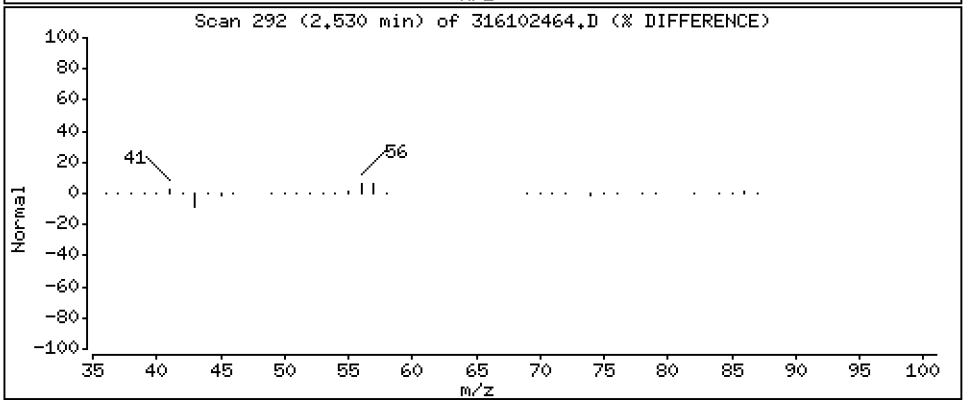












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 35

Date : 25-OCT-2016 03:26

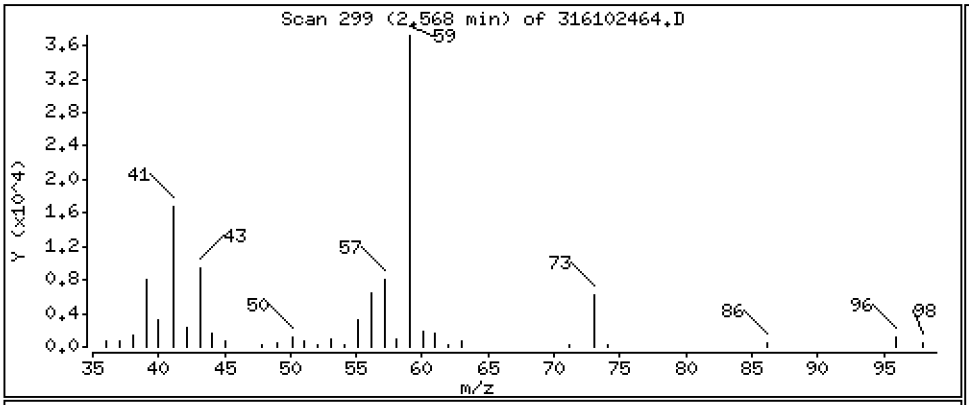
Client ID: LCS for HBN 174041 Instrument: ms03.i

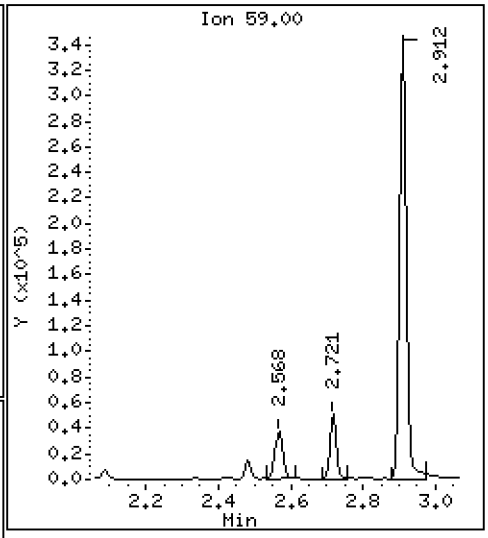
Sample Info: 2428716;;1;3;;LCS;1;

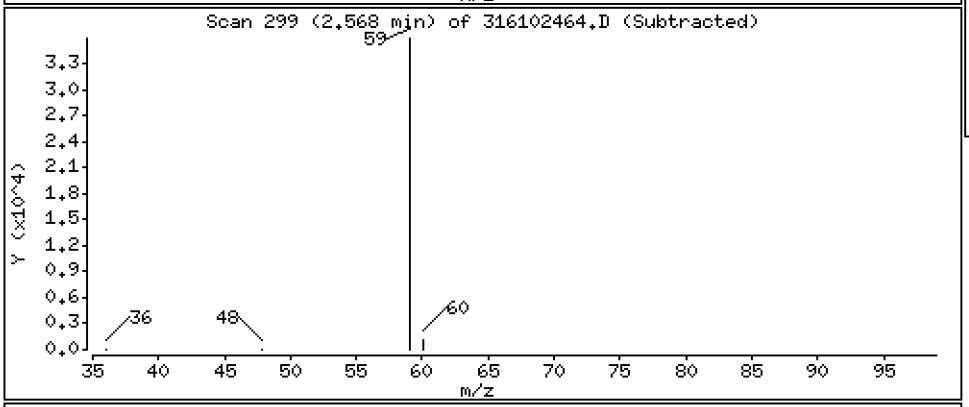
Purge Volume: 5.0 Operator: CJG

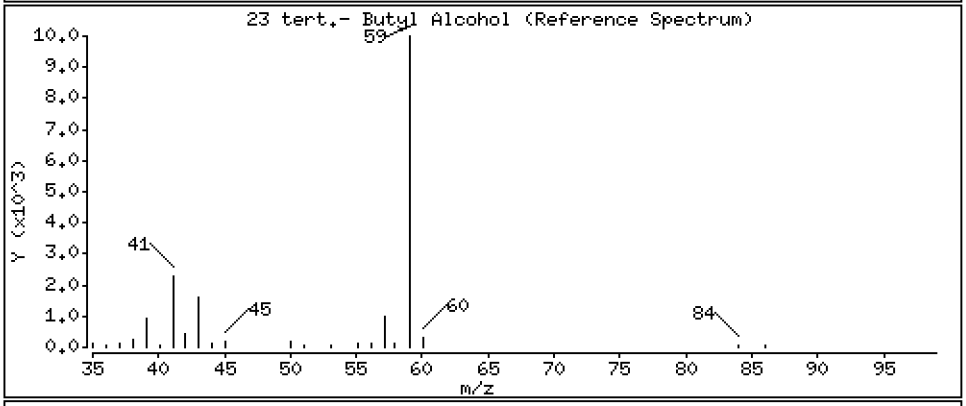
Column phase: DB-VRX Column diameter: 0.25

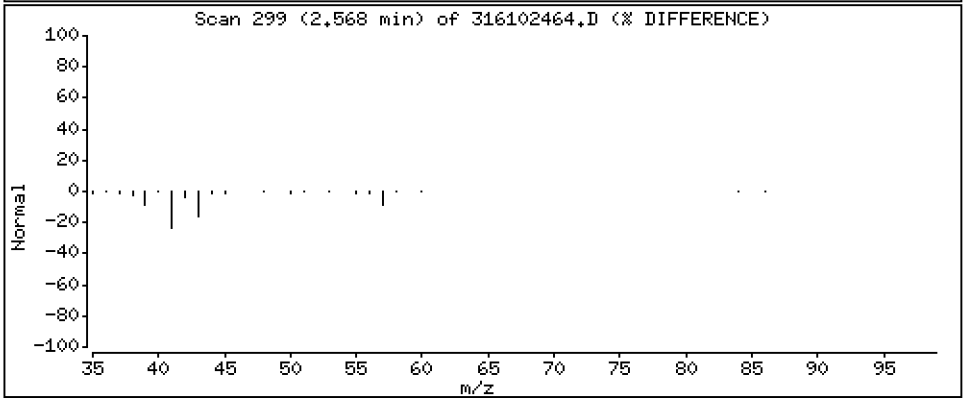
23 tert.- Butyl Alcohol Concentration: 105.771 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 36

Date : 25-OCT-2016 03:26

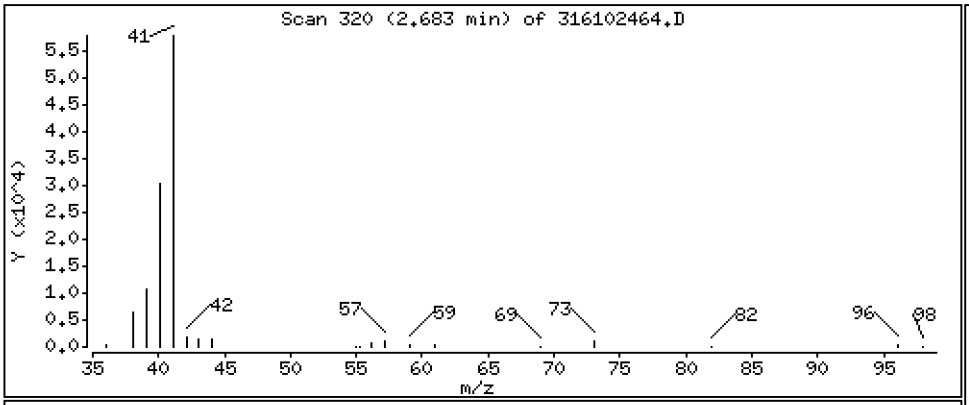
Client ID: LCS for HBN 174041 Instrument: ms03.i

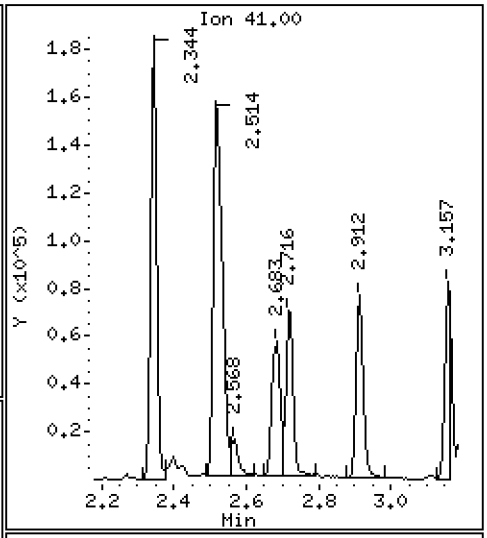
Sample Info: 2428716;;1;3;;LCS;1;

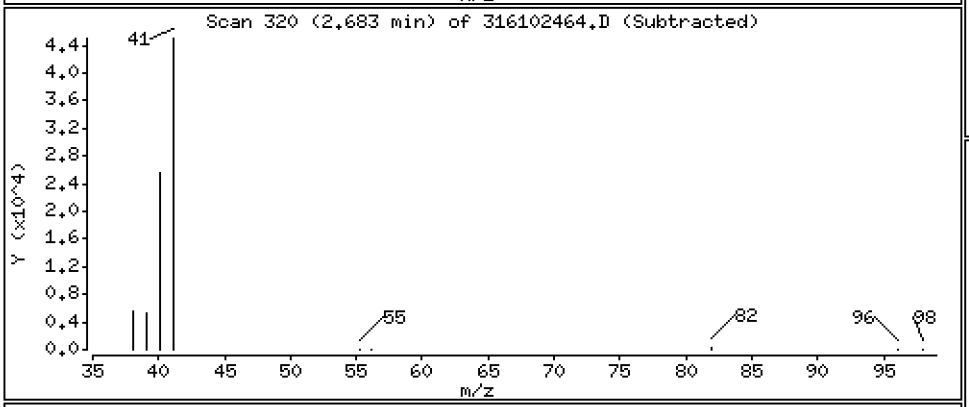
Purge Volume: 5.0 Operator: CJG

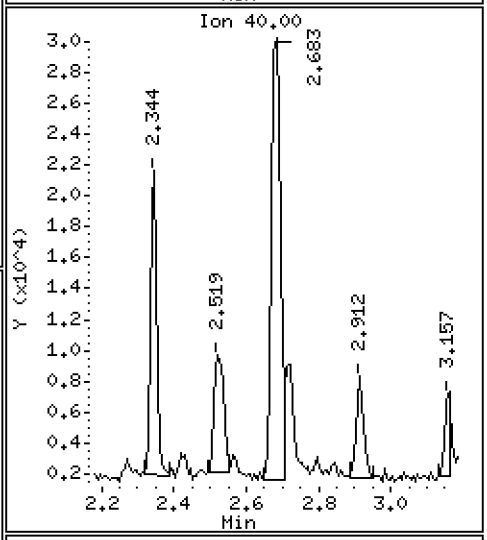
Column phase: DB-VRX Column diameter: 0.25

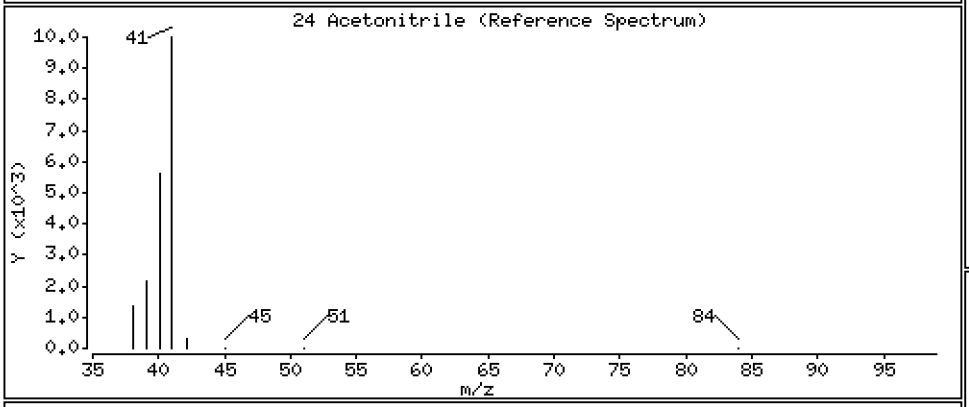
24 Acetonitrile Concentration: 107.445 ug/L

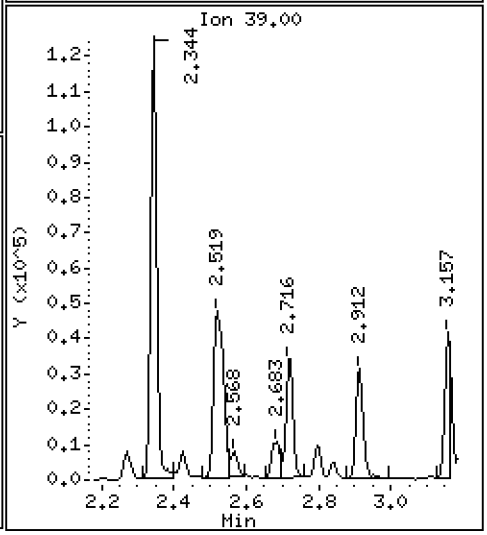


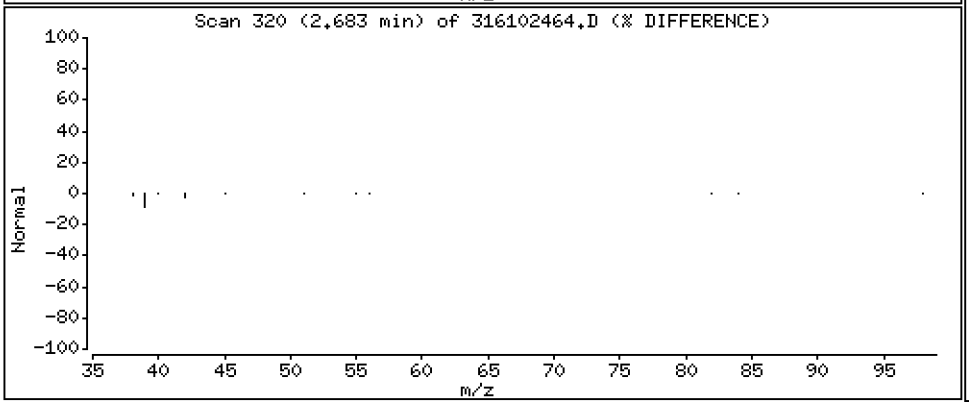












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 37

Date : 25-OCT-2016 03:26

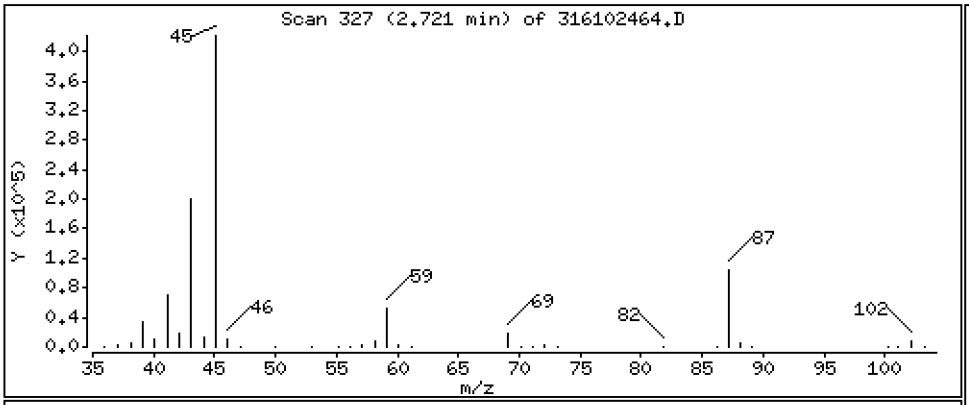
Client ID: LCS for HBN 174041 Instrument: ms03.i

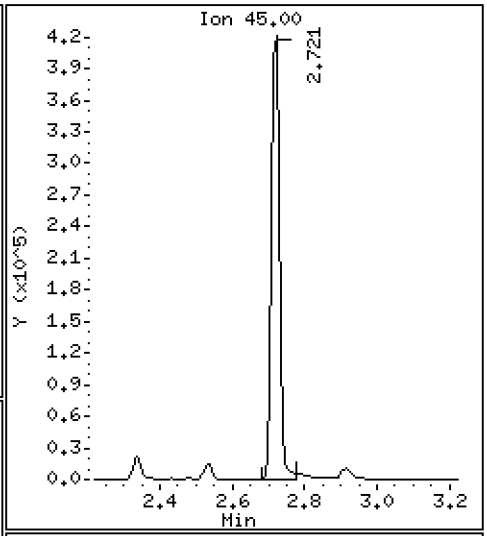
Sample Info: 2428716;;1;3;;LCS;1;

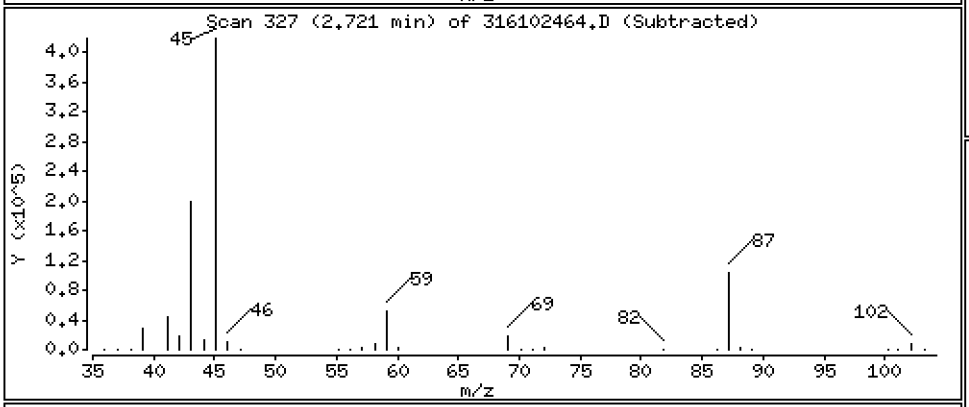
Purge Volume: 5.0 Operator: CJG

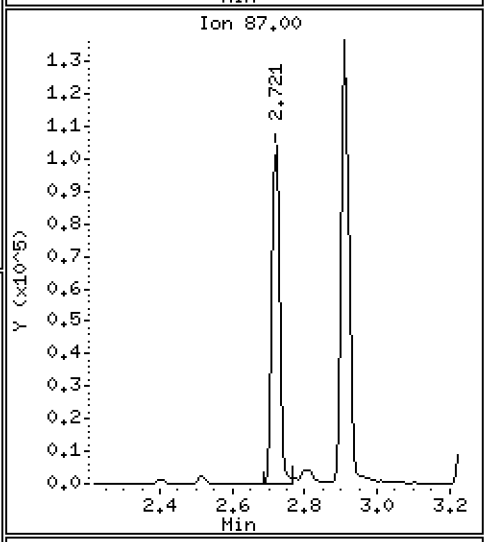
Column phase: DB-VRX Column diameter: 0.25

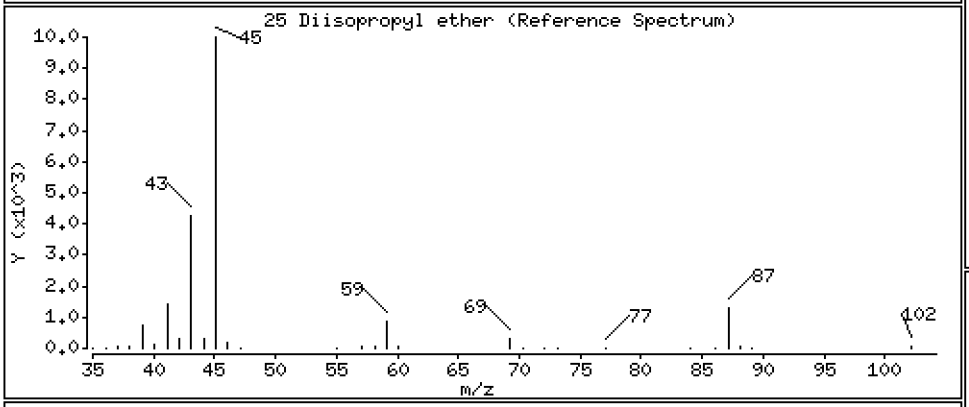
25 Diisopropyl ether Concentration: 18.8231 ug/L

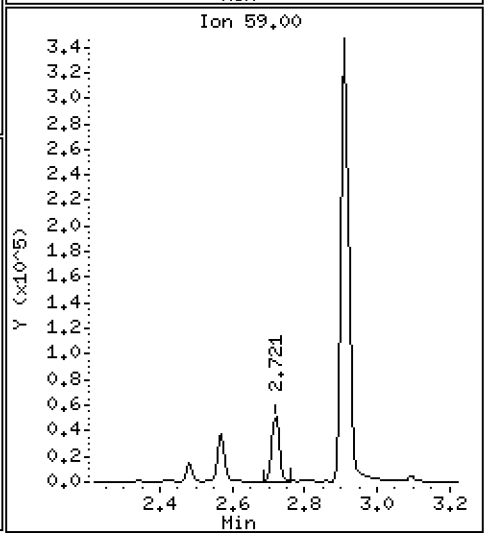


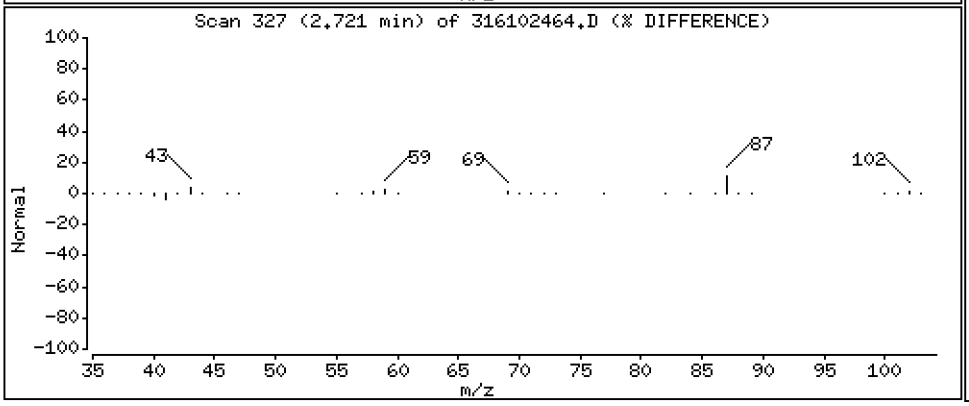












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 38

Date : 25-OCT-2016 03:26

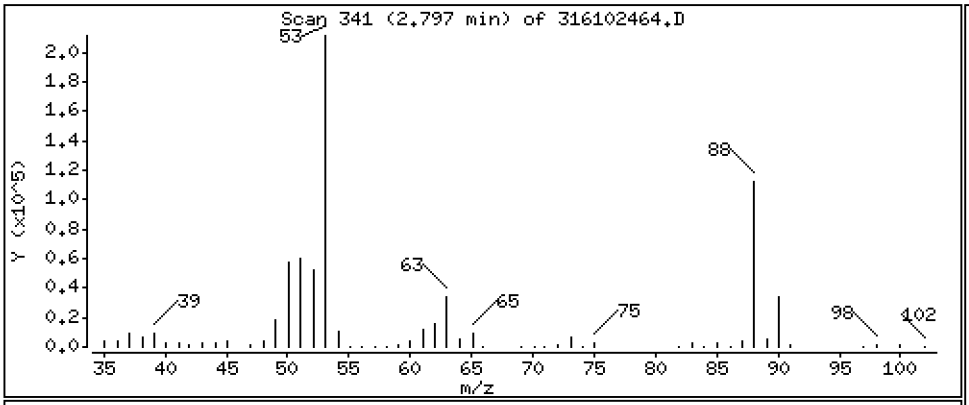
Client ID: LCS for HBN 174041 Instrument: ms03.i

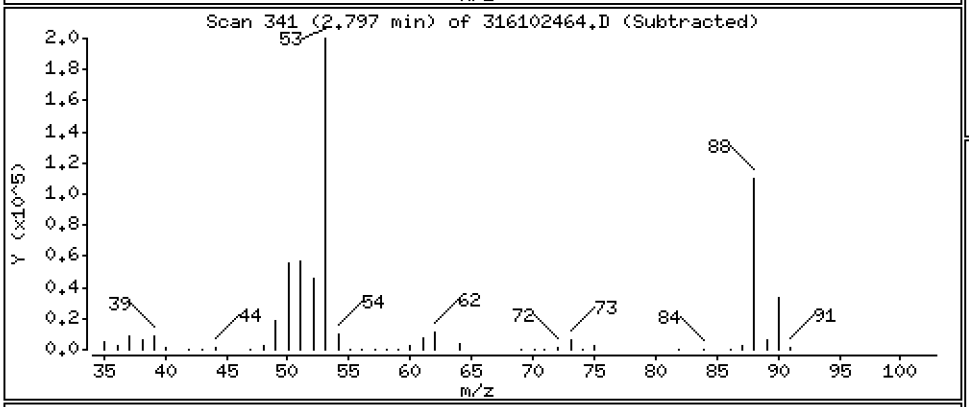
Sample Info: 2428716;;1;3;;LCS;1;

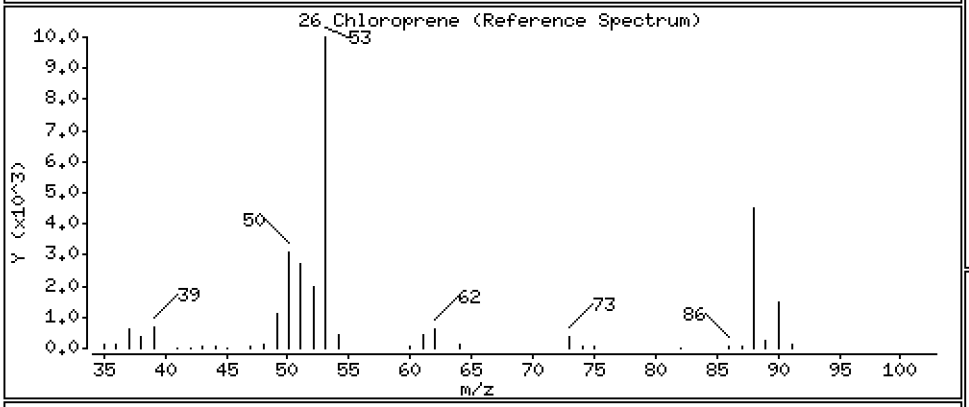
Purge Volume: 5.0 Operator: CJG

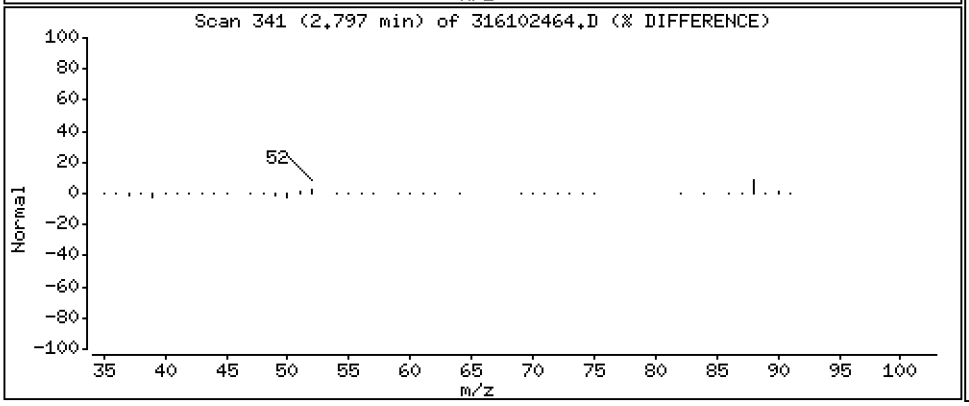
Column phase: DB-VRX Column diameter: 0.25

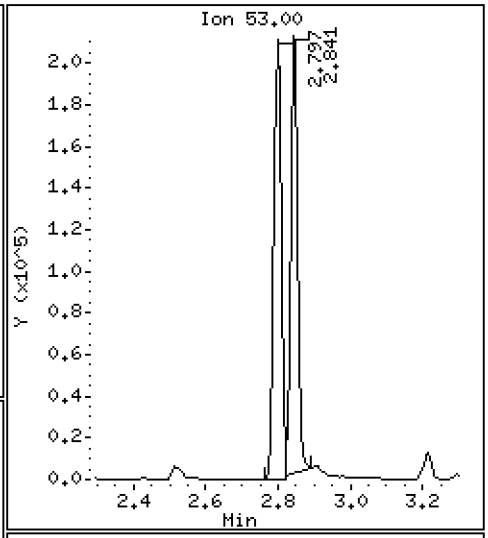
26 Chloroprene Concentration: 20.1785 ug/L

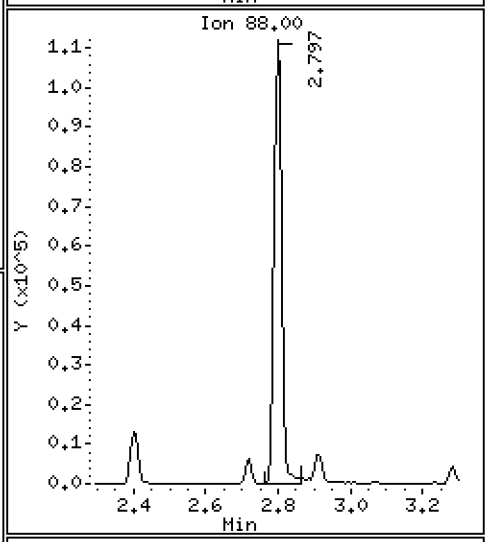


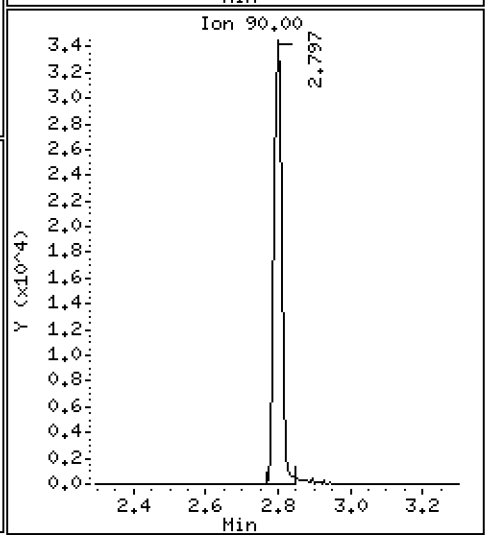












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 39

Date : 25-OCT-2016 03:26

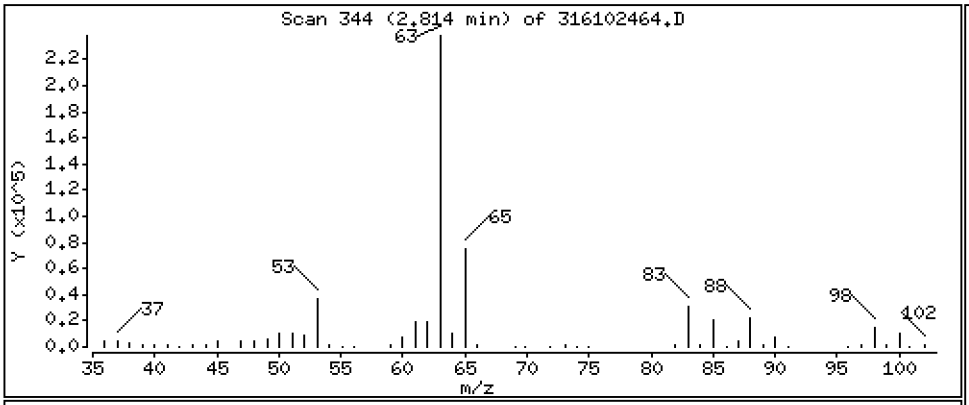
Client ID: LCS for HBN 174041 Instrument: ms03.i

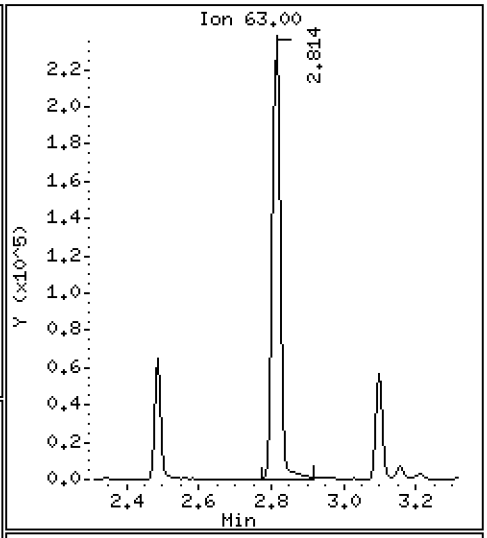
Sample Info: 2428716;;1;3;;LCS;1;

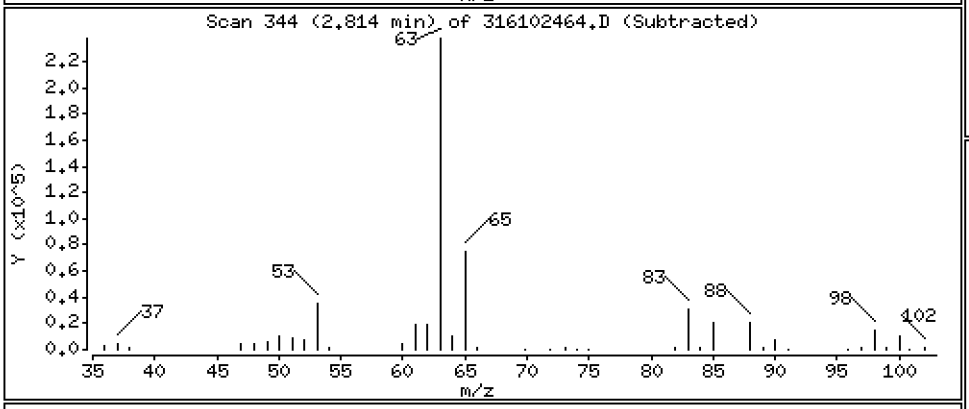
Purge Volume: 5.0 Operator: CJG

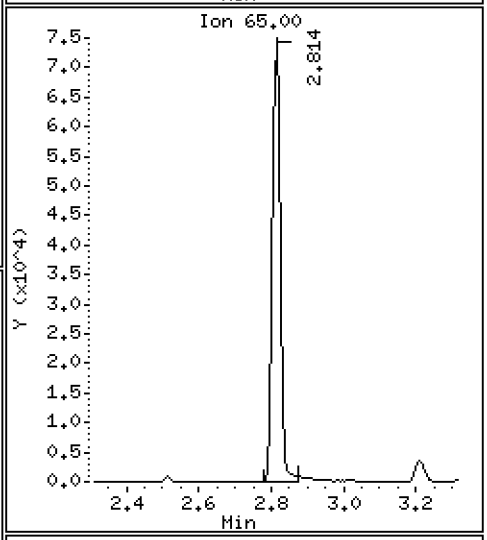
Column phase: DB-VRX Column diameter: 0.25

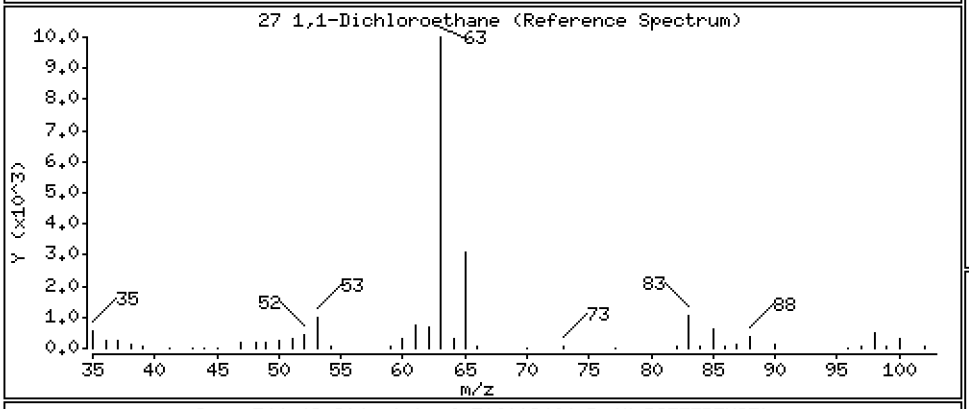
27 1,1-Dichloroethane Concentration: 18.5318 ug/L

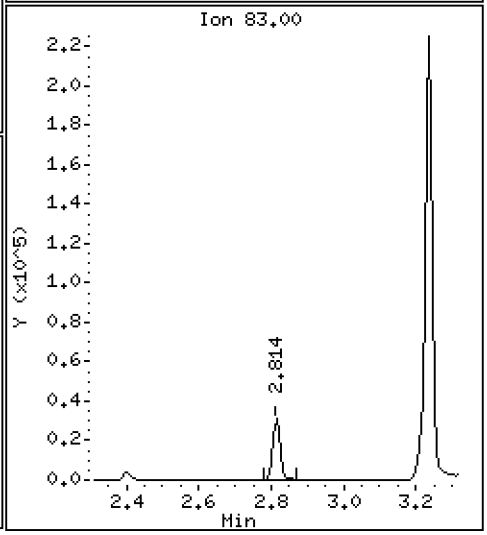


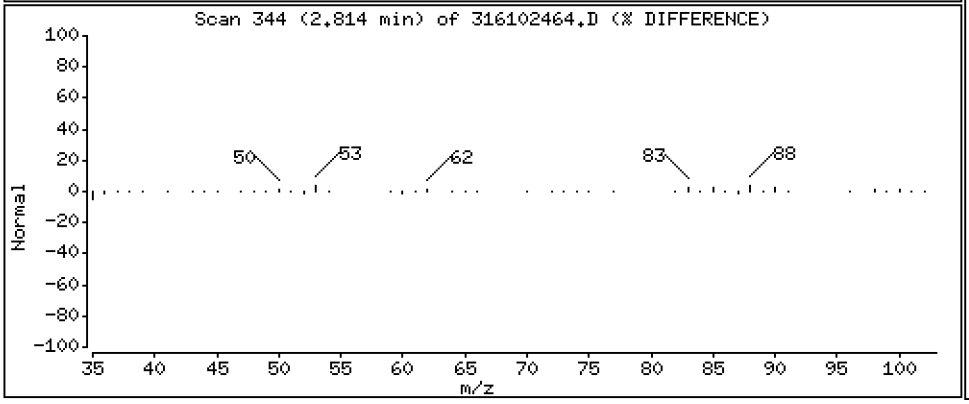












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 40

Date : 25-OCT-2016 03:26

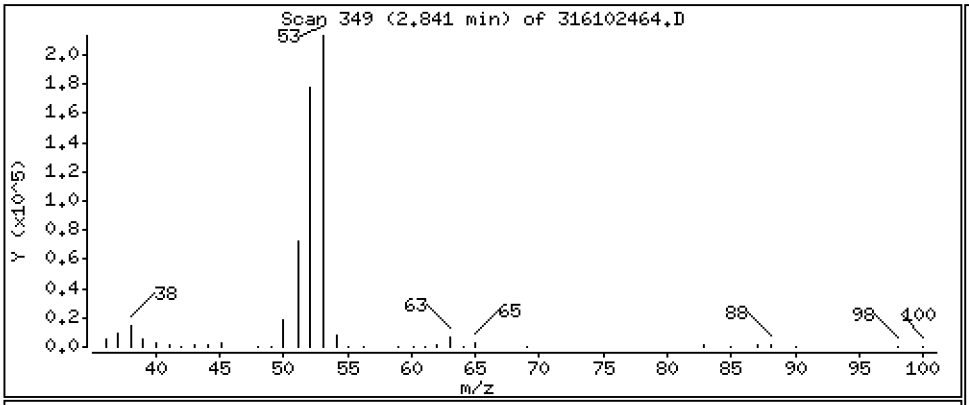
Client ID: LCS for HBN 174041 Instrument: ms03.i

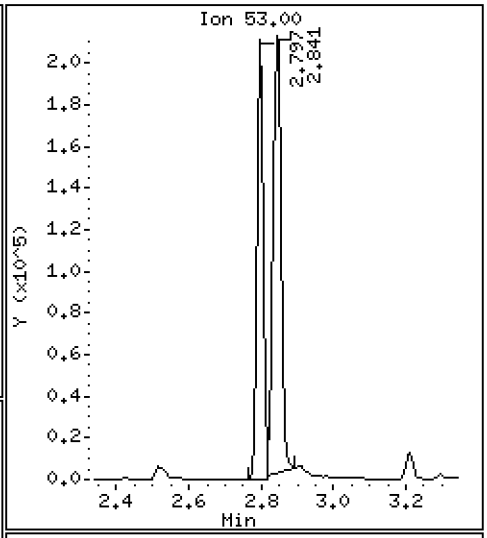
Sample Info: 2428716;;1;3;;LCS;1;

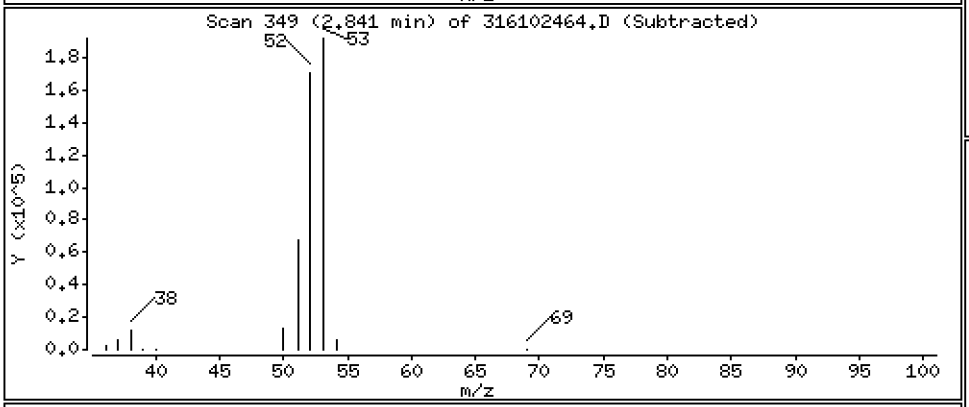
Purge Volume: 5.0 Operator: CJG

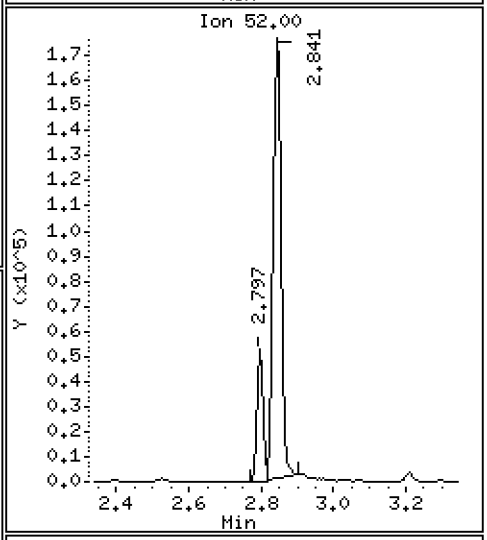
Column phase: DB-VRX Column diameter: 0.25

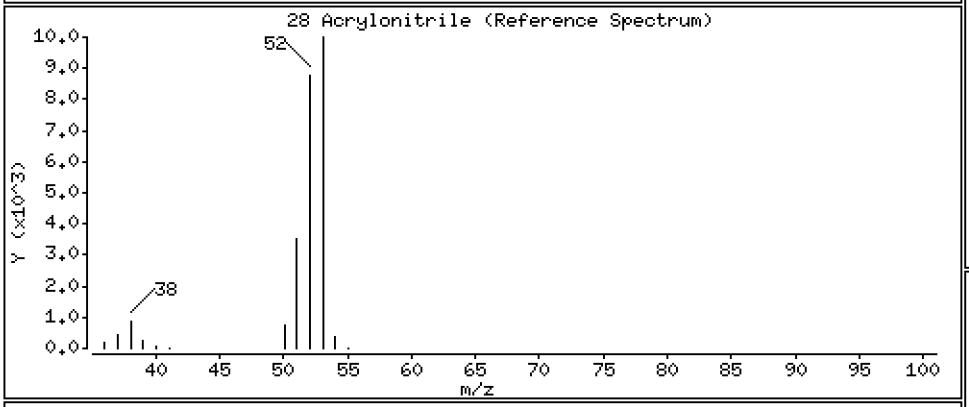
28 Acrylonitrile Concentration: 92.5228 ug/L

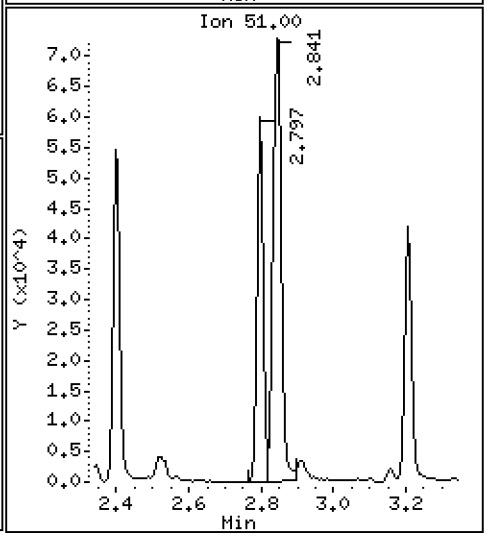


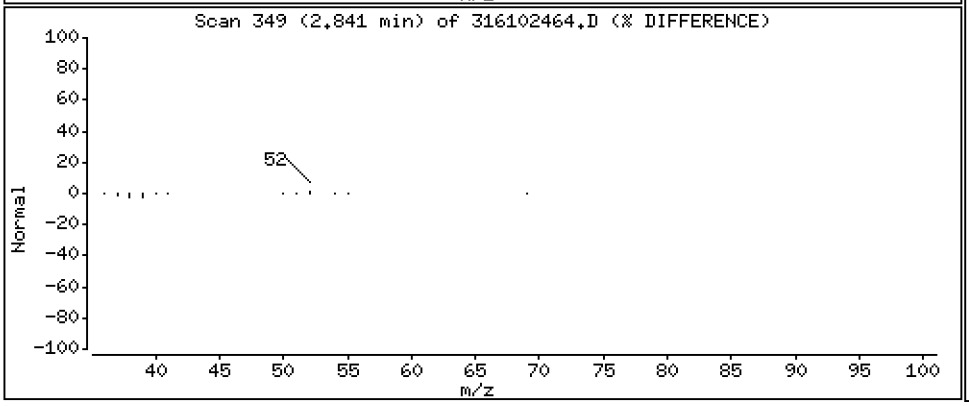












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 41

Date : 25-OCT-2016 03:26

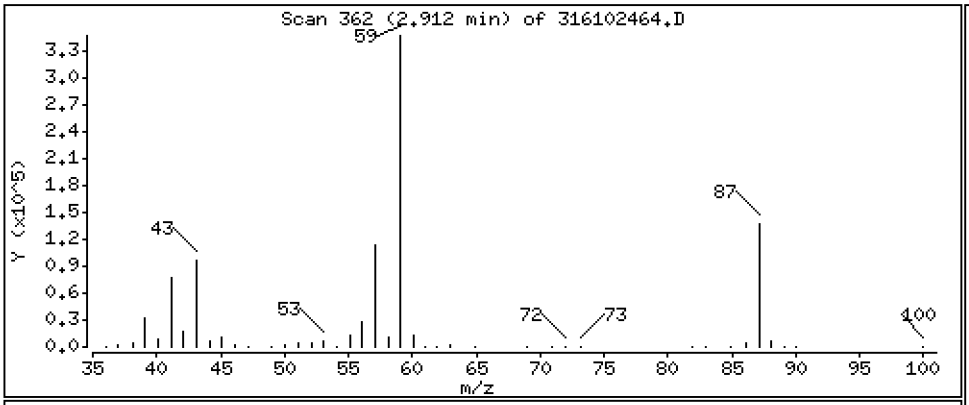
Client ID: LCS for HBN 174041 Instrument: ms03.i

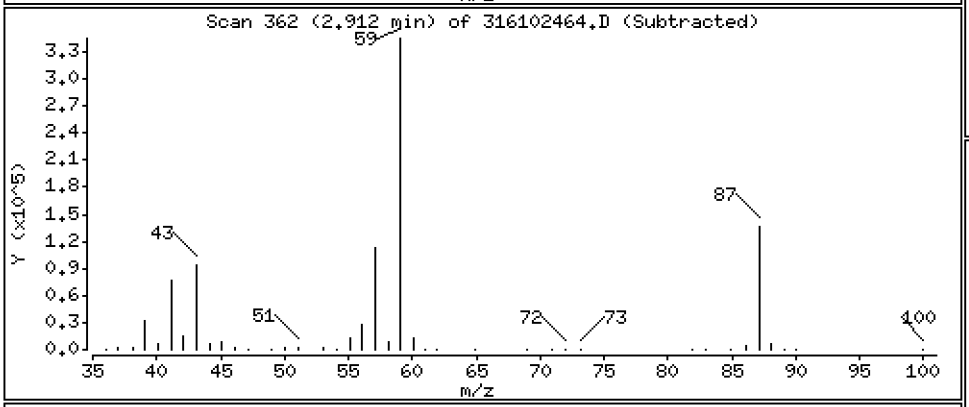
Sample Info: 2428716;;1;3;;LCS;1;

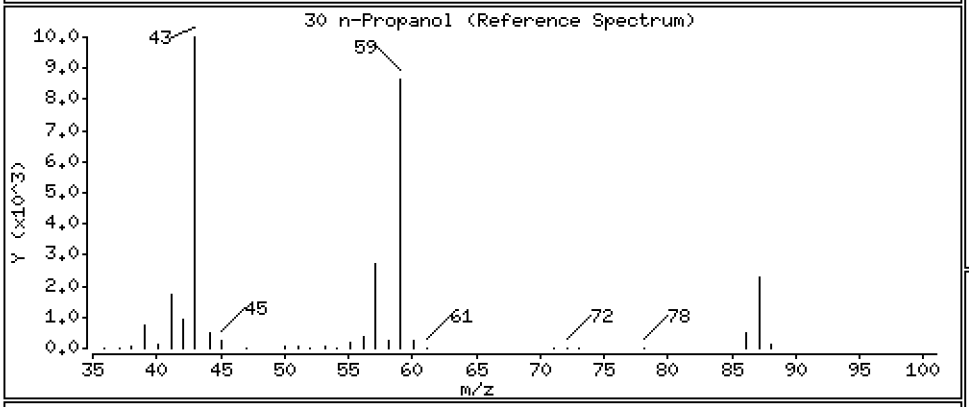
Purge Volume: 5.0 Operator: CJG

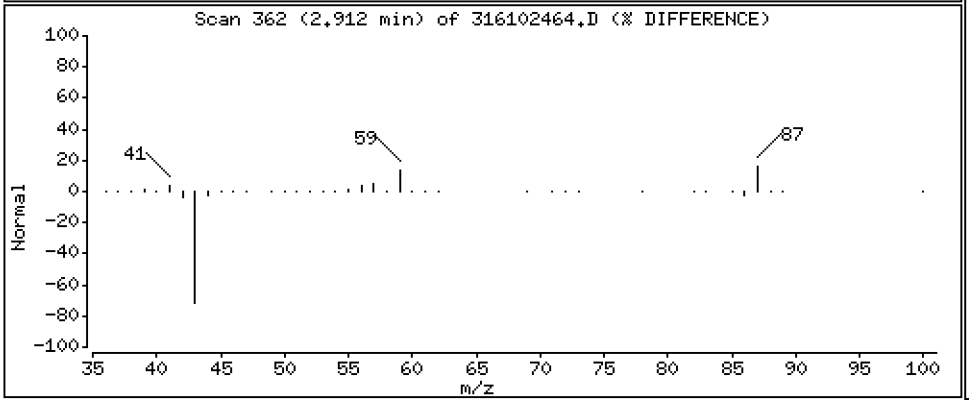
Column phase: DB-VRX Column diameter: 0.25

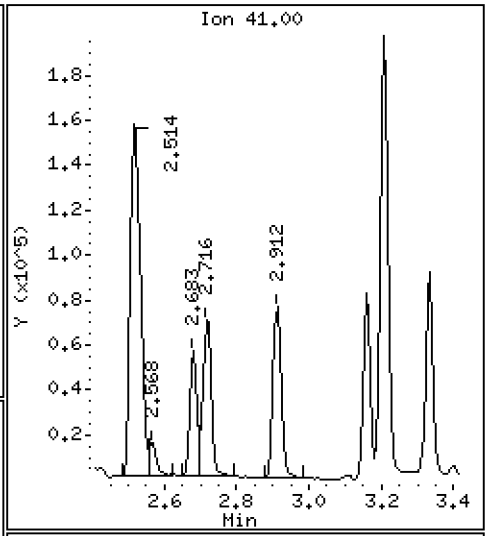
30 n-Propanol Concentration: 203.656 ug/L

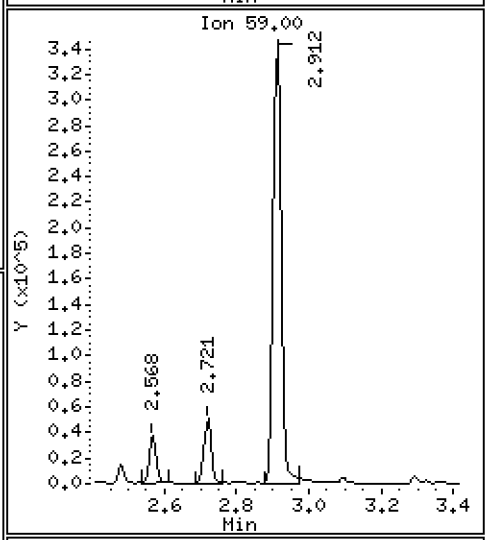


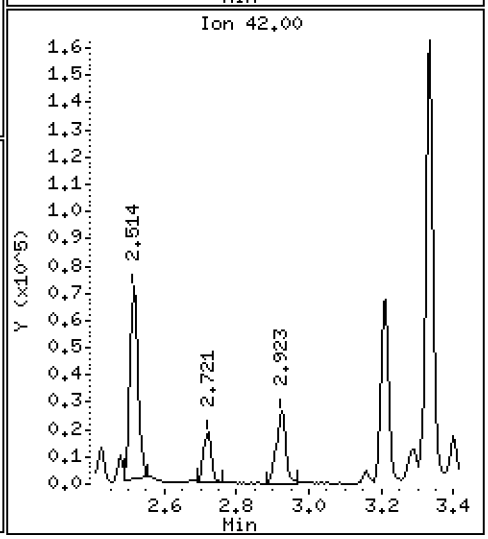












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 42

Date : 25-OCT-2016 03:26

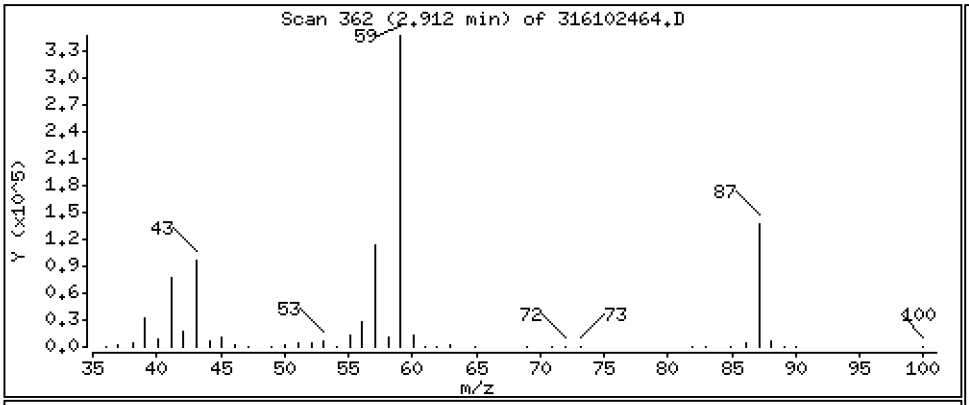
Client ID: LCS for HBN 174041 Instrument: ms03.i

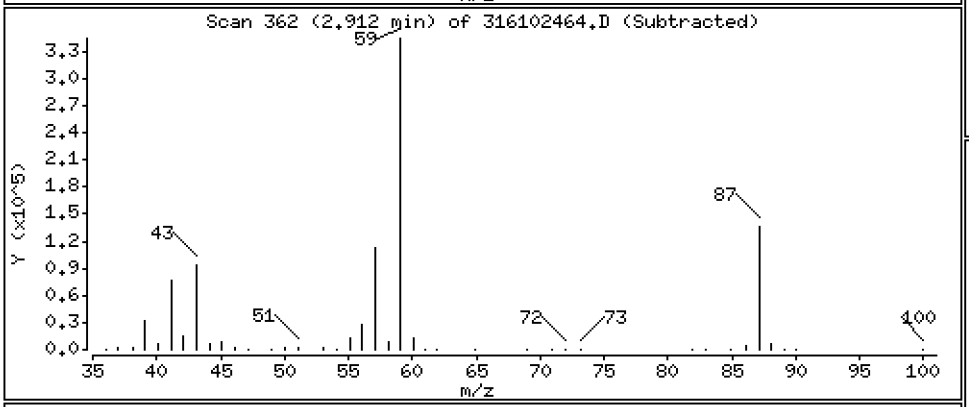
Sample Info: 2428716;;1;3;;LCS;1;

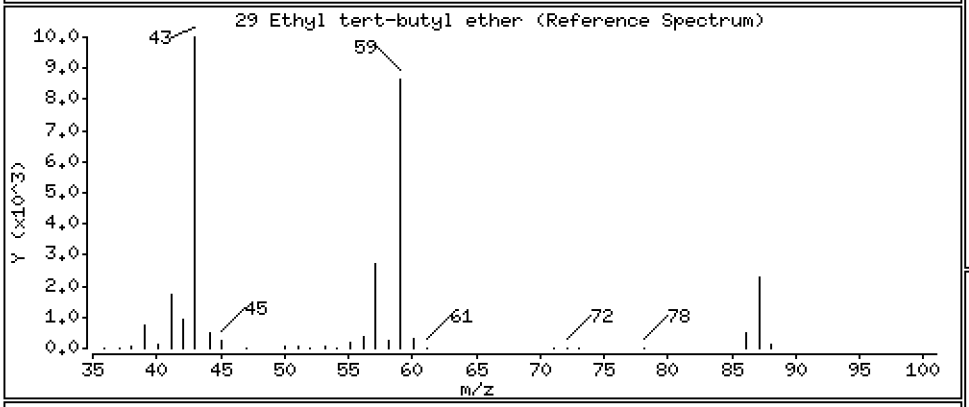
Purge Volume: 5.0 Operator: CJG

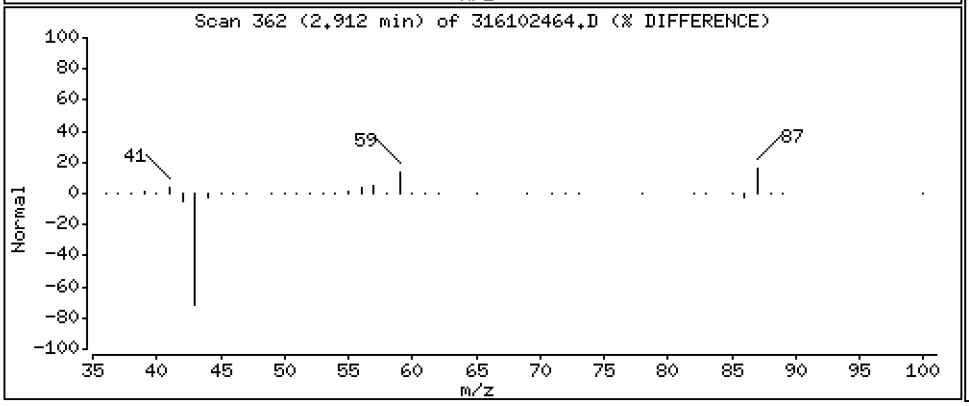
Column phase: DB-VRX Column diameter: 0.25

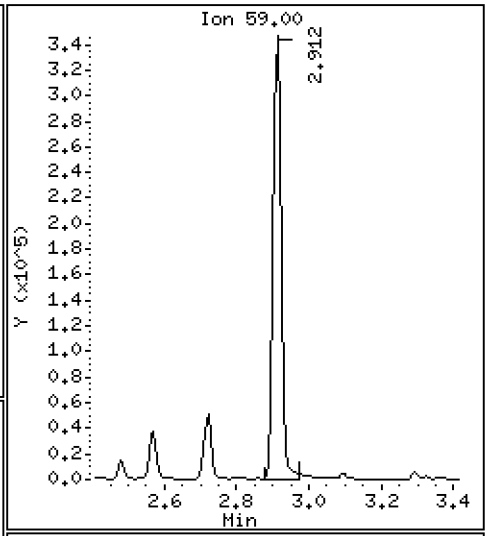
29 Ethyl tert-butyl ether Concentration: 18.5667 ug/L

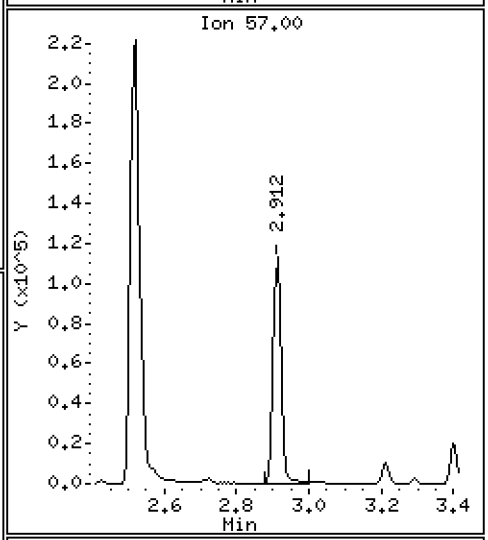


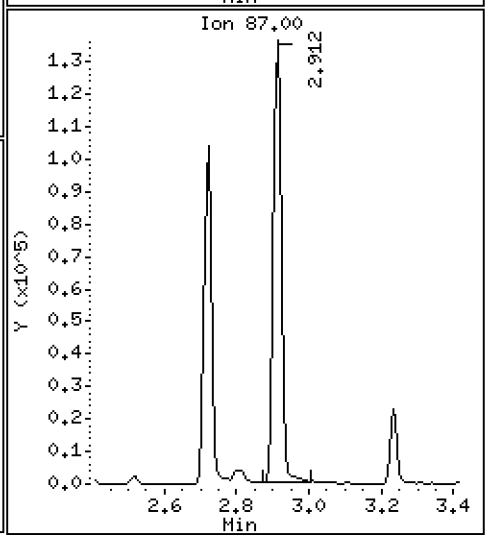












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 43

Date : 25-OCT-2016 03:26

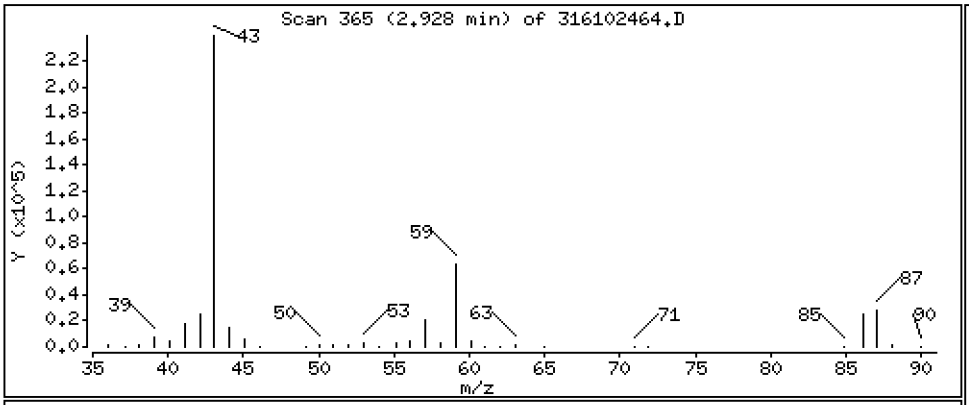
Client ID: LCS for HBN 174041 Instrument: ms03.i

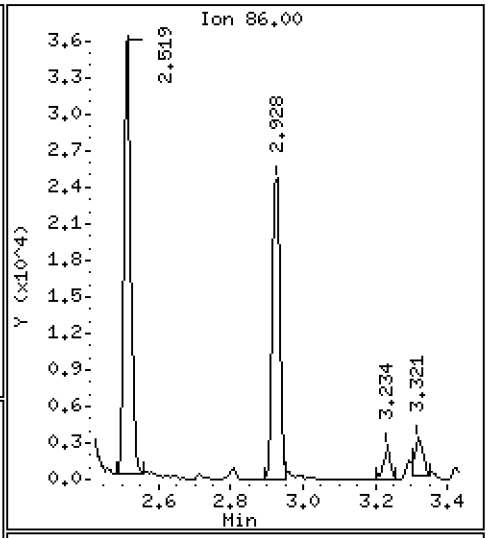
Sample Info: 2428716;;1;3;;LCS;1;

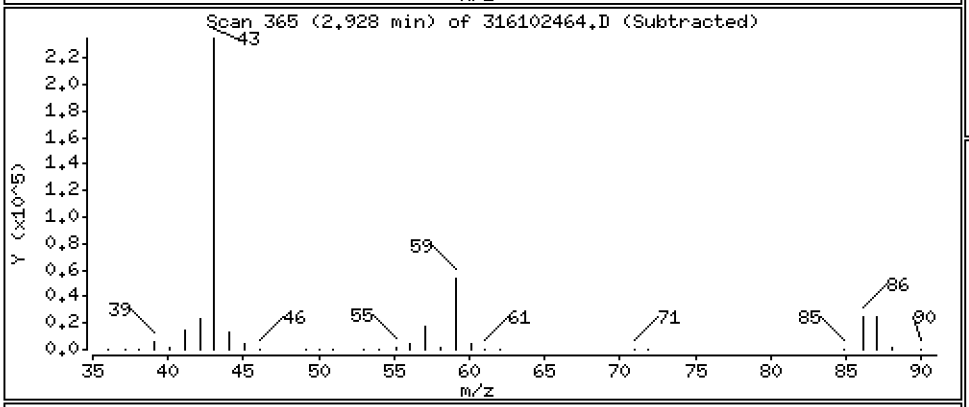
Purge Volume: 5.0 Operator: CJG

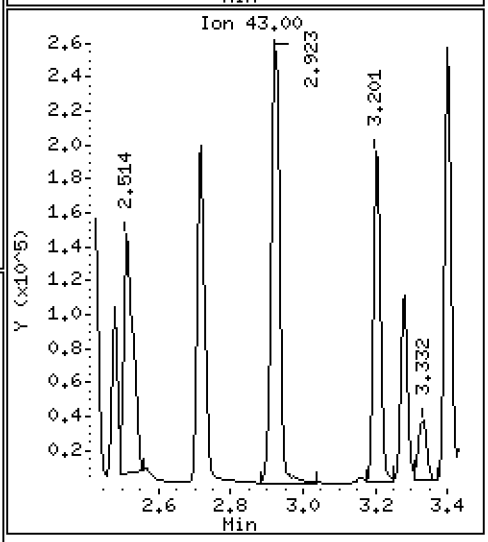
Column phase: DB-VRX Column diameter: 0.25

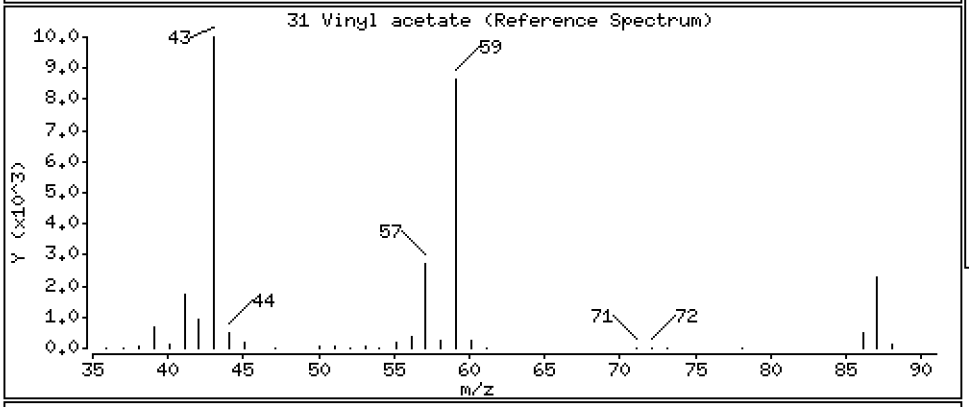
31 Vinyl acetate Concentration: 16.3116 ug/L

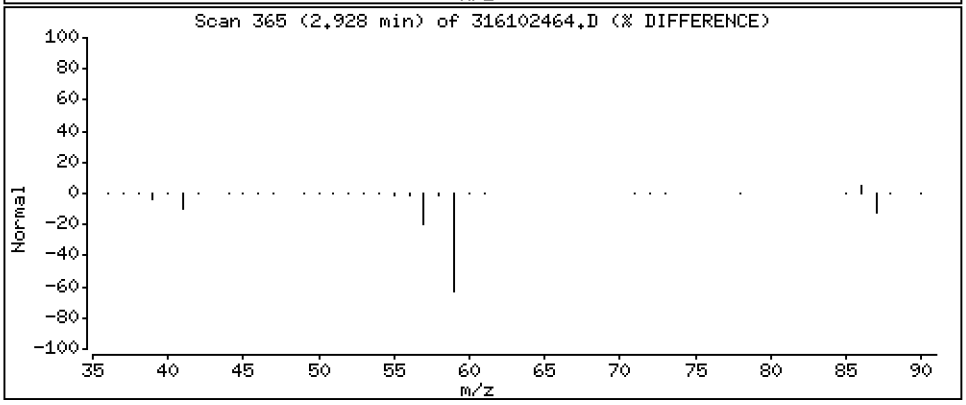












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 44

Date : 25-OCT-2016 03:26

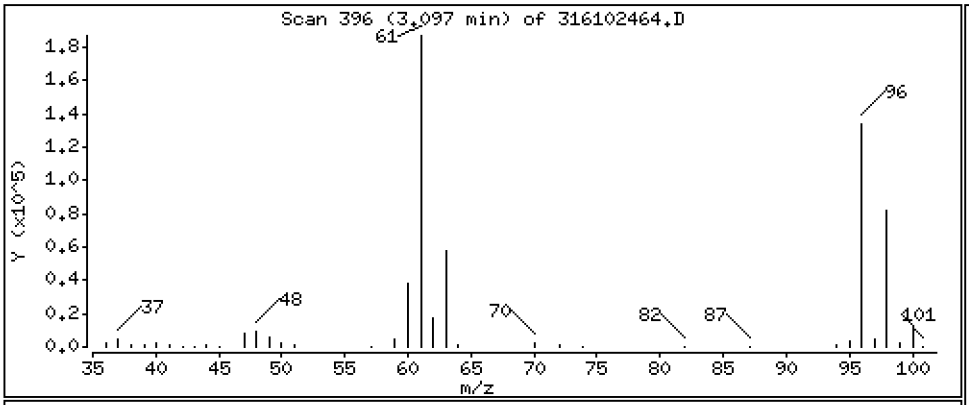
Client ID: LCS for HBN 174041 Instrument: ms03.i

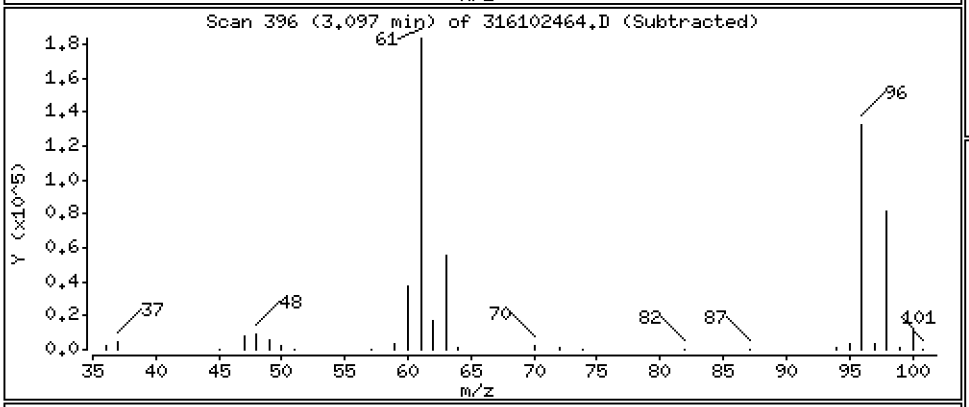
Sample Info: 2428716;;1;3;;LCS;1;

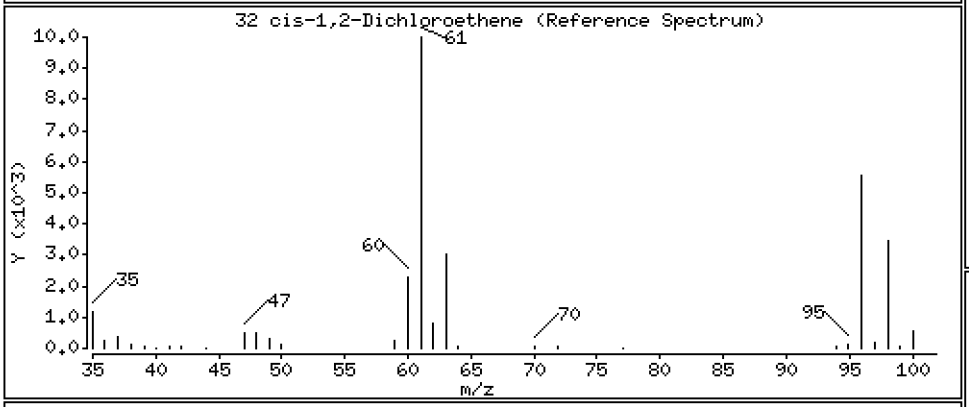
Purge Volume: 5.0 Operator: CJG

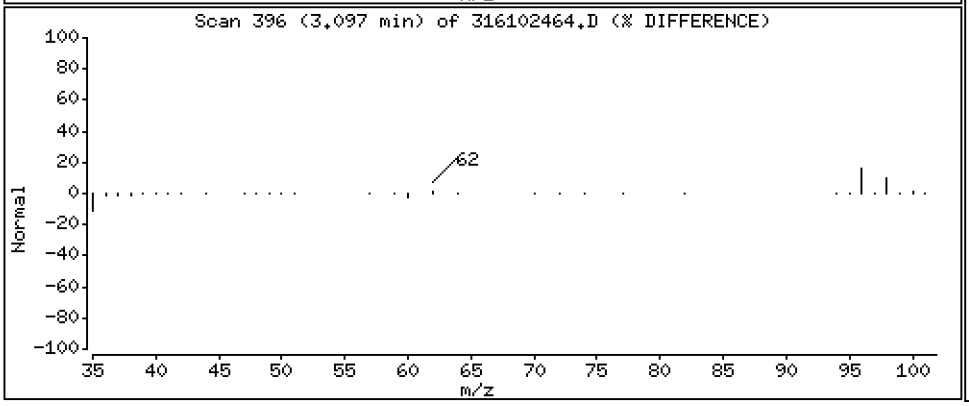
Column phase: DB-VRX Column diameter: 0.25

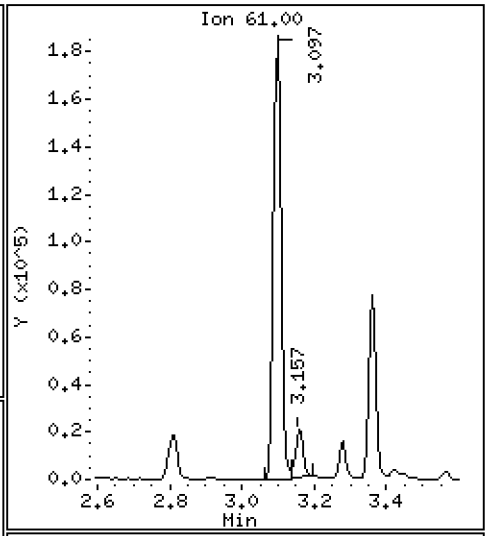
32 cis-1,2-Dichloroethene Concentration: 18.1745 ug/L

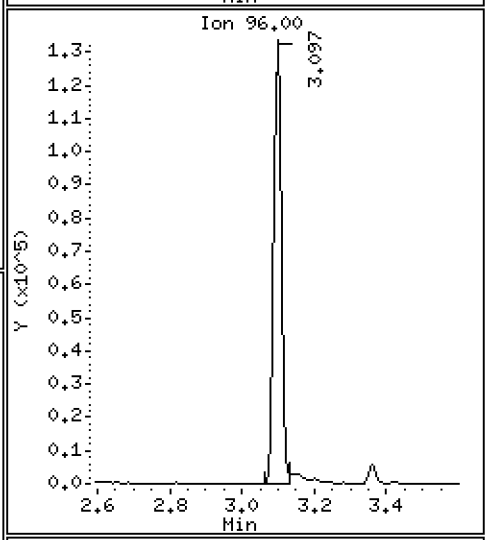


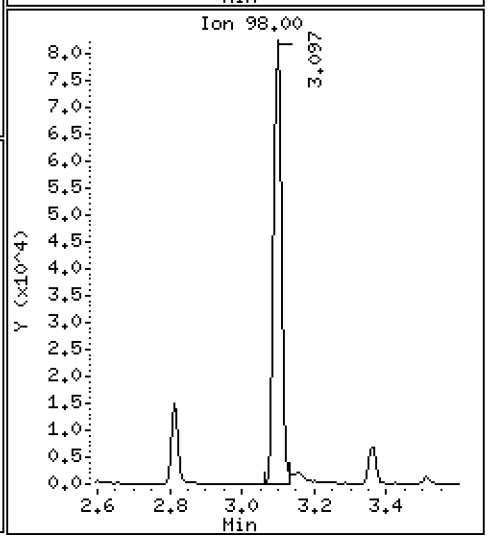












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 45

Date : 25-OCT-2016 03:26

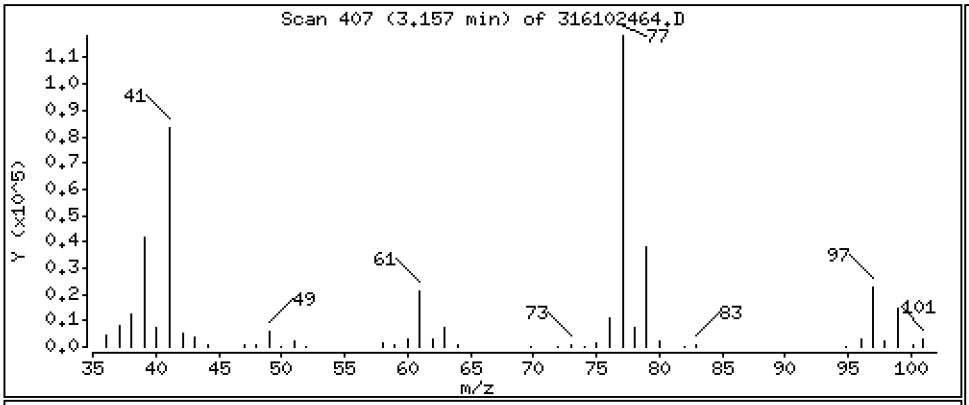
Client ID: LCS for HBN 174041 Instrument: ms03.i

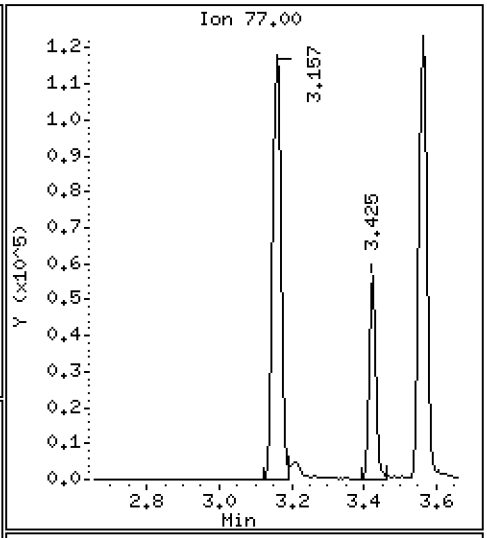
Sample Info: 2428716;;1;3;;LCS;1;

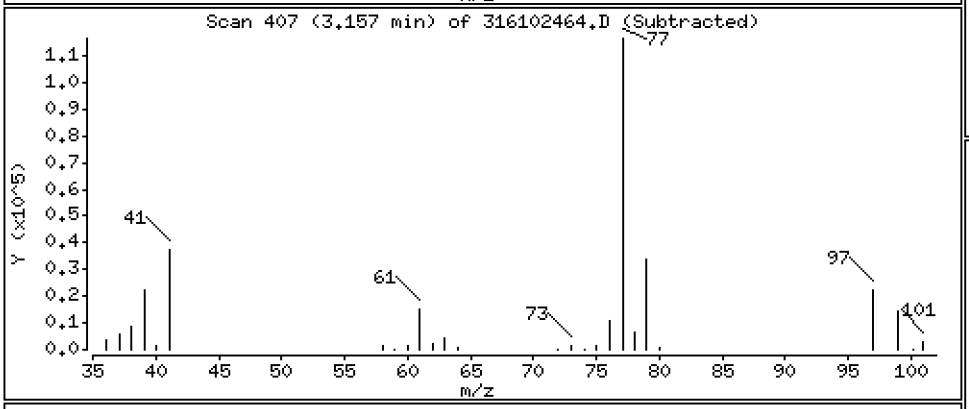
Purge Volume: 5.0 Operator: CJG

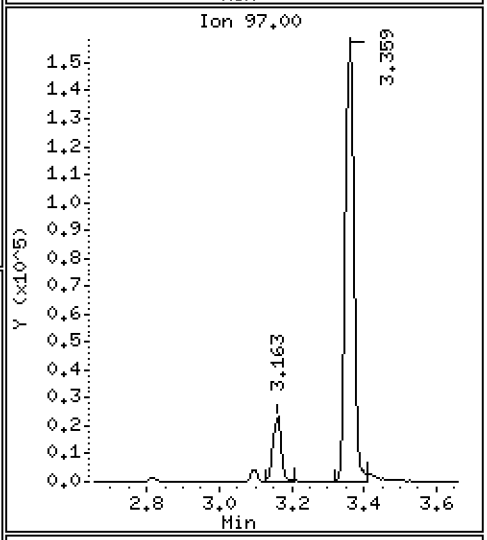
Column phase: DB-VRX Column diameter: 0.25

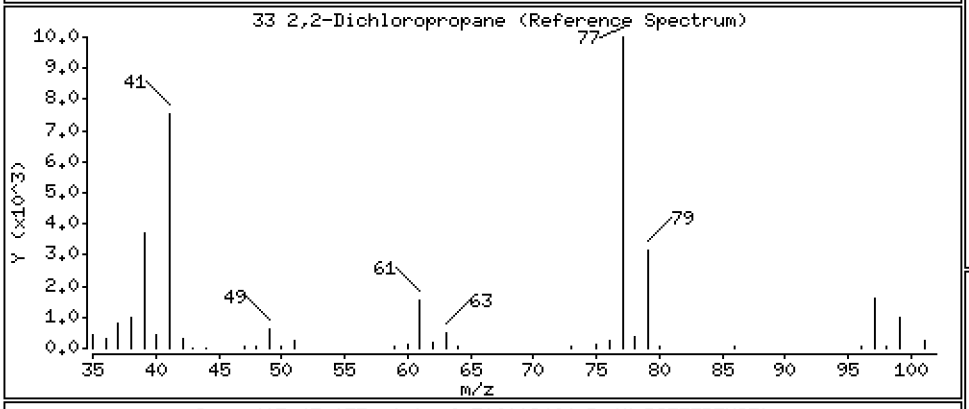
33 2,2-Dichloropropane Concentration: 16.1713 ug/L

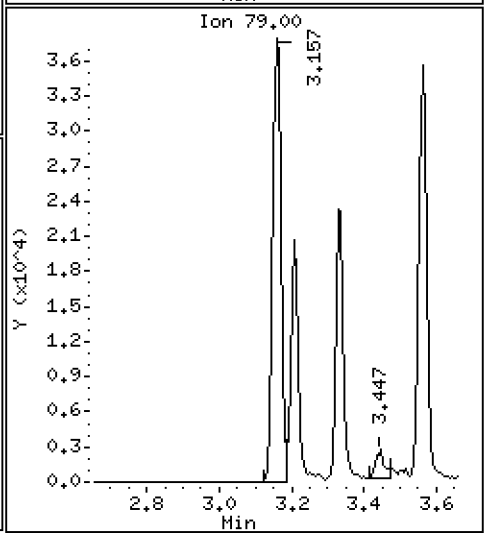


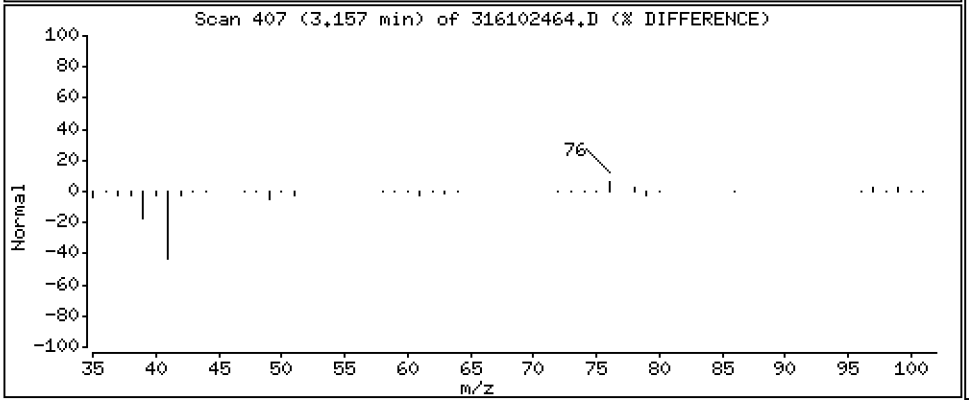












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 46

Date : 25-OCT-2016 03:26

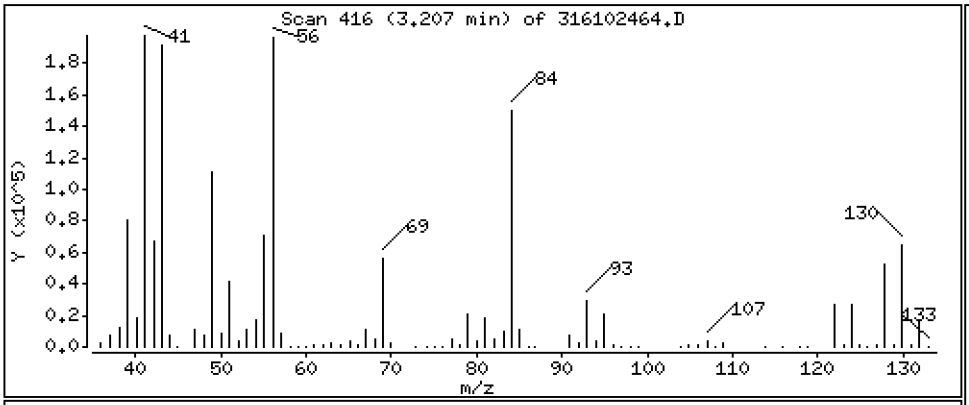
Client ID: LCS for HBN 174041 Instrument: ms03.i

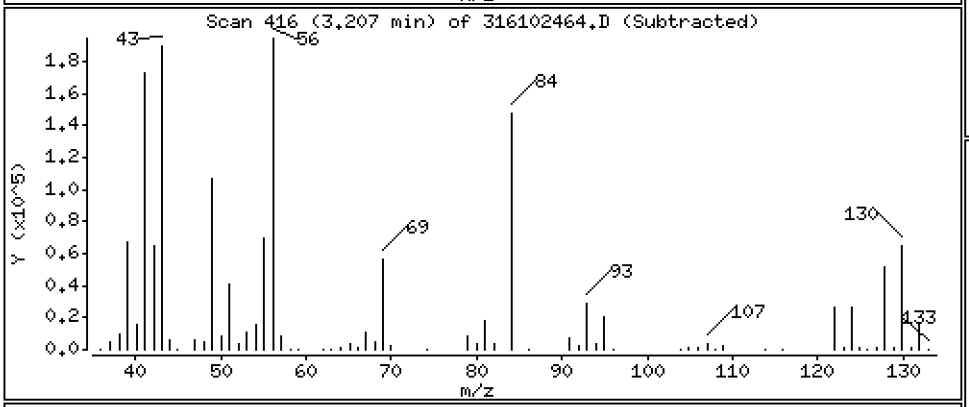
Sample Info: 2428716;;1;3;;LCS;1;

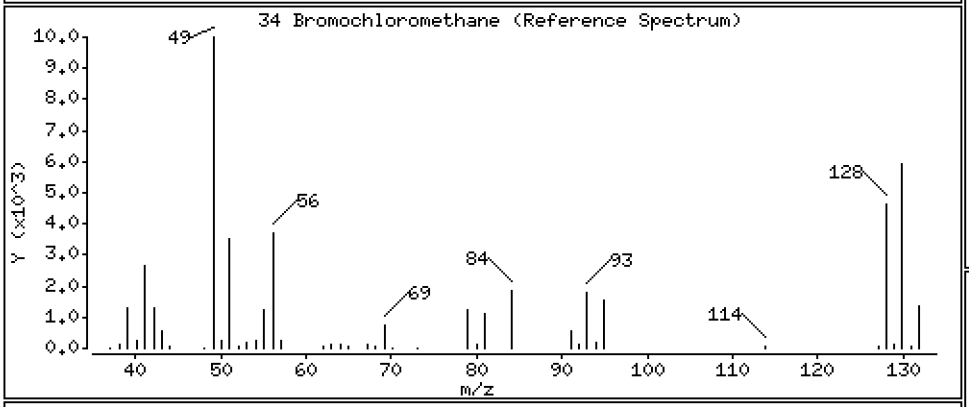
Purge Volume: 5.0 Operator: CJG

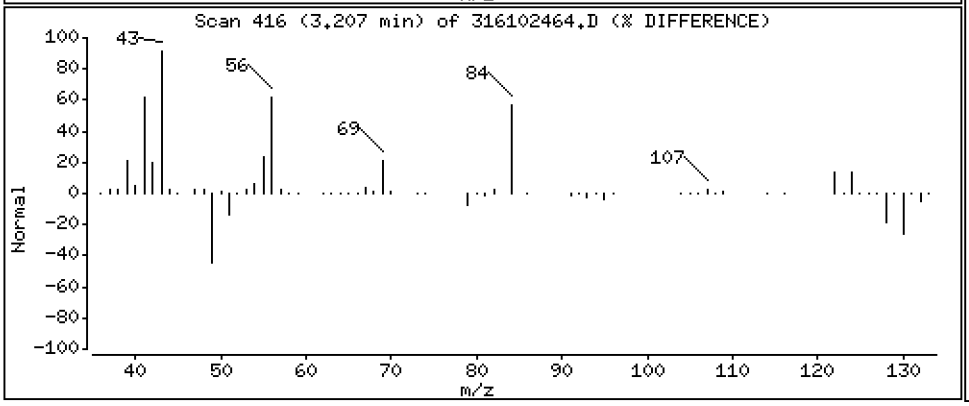
Column phase: DB-VRX Column diameter: 0.25

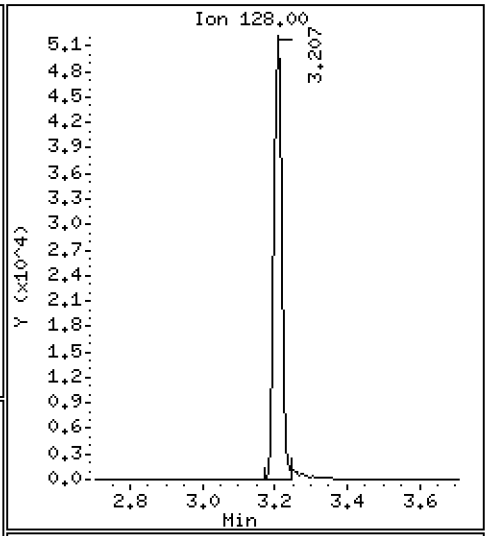
34 Bromochloromethane Concentration: 18.5457 ug/L

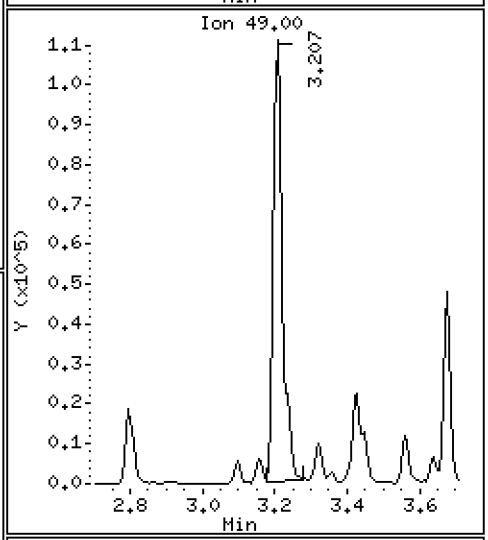


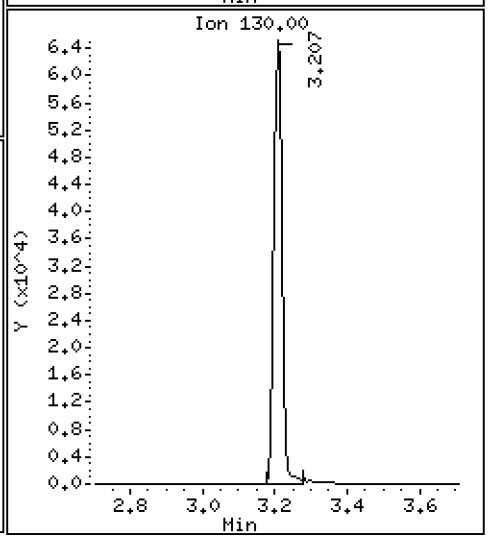












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 47

Date : 25-OCT-2016 03:26

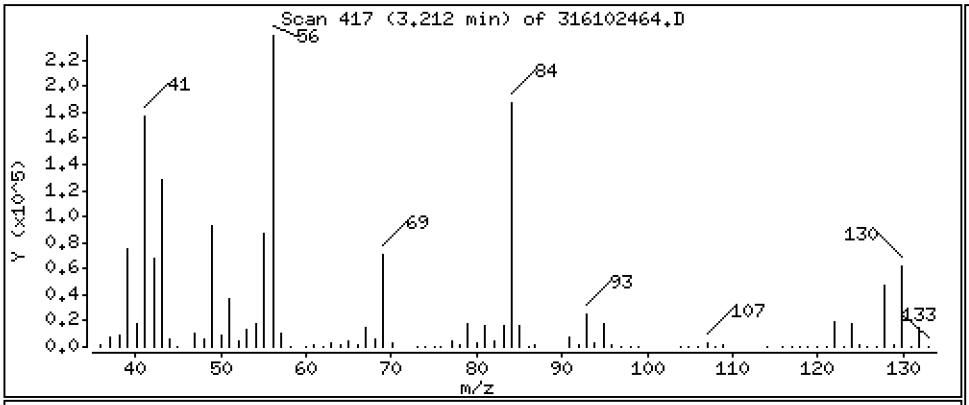
Client ID: LCS for HBN 174041 Instrument: ms03.i

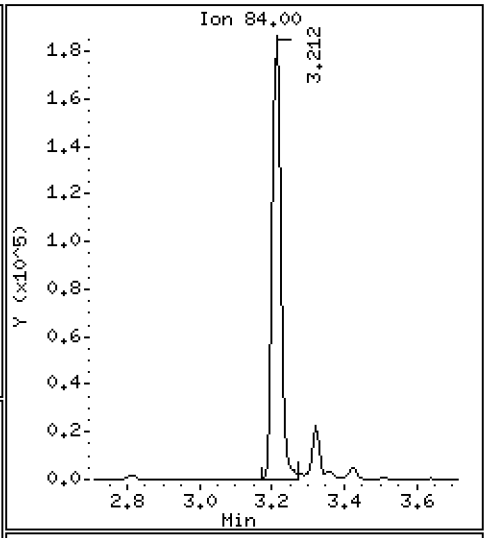
Sample Info: 2428716;;1;3;;LCS;1;

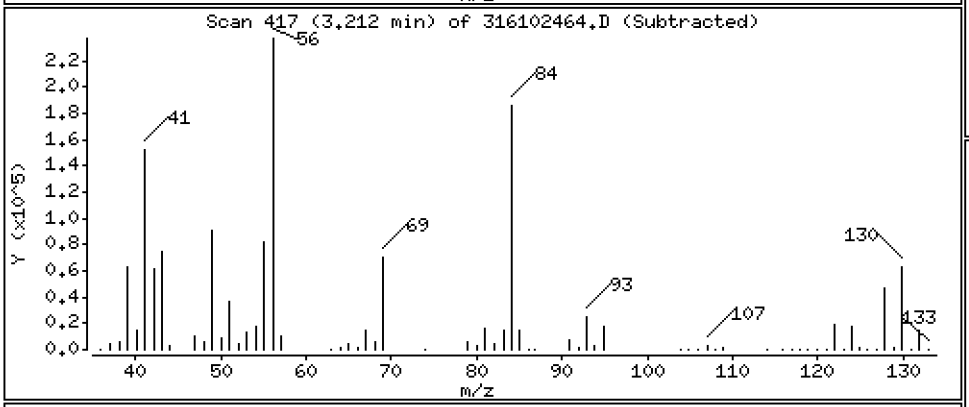
Purge Volume: 5.0 Operator: CJG

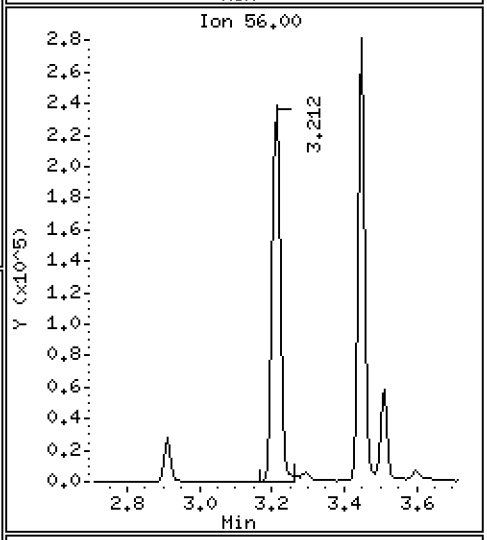
Column phase: DB-VRX Column diameter: 0.25

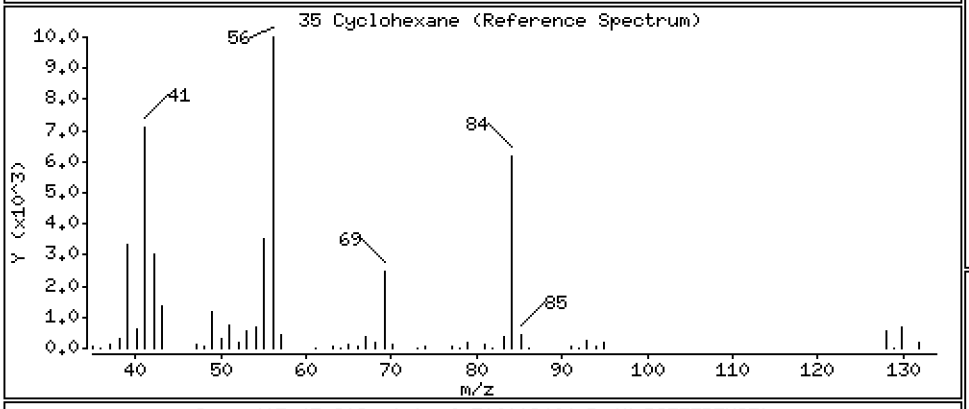
35 Cyclohexane Concentration: 19.3069 ug/L

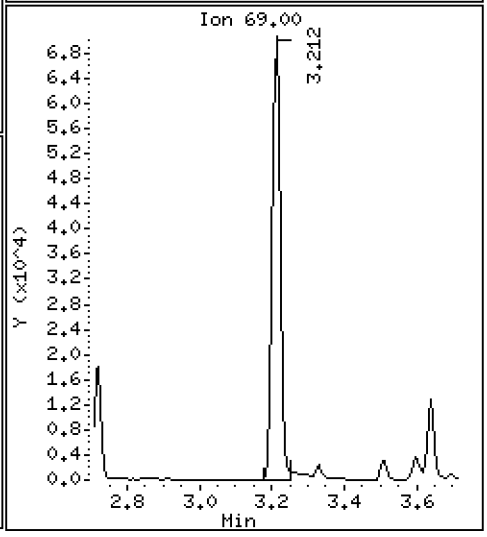


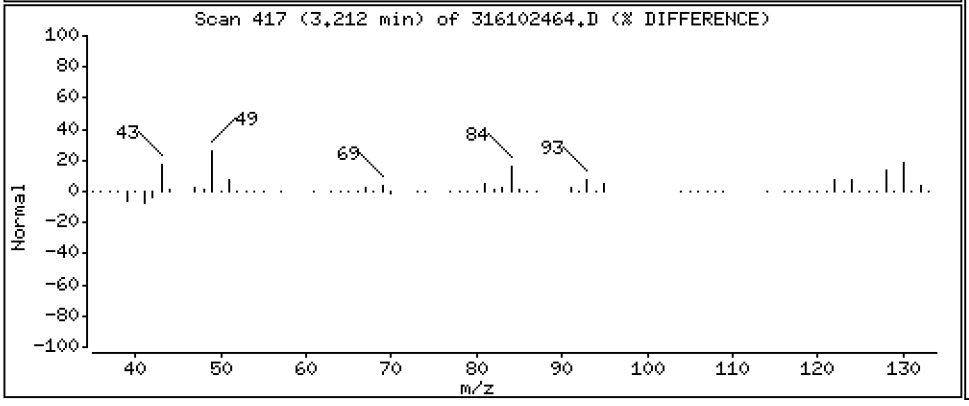












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 48

Date : 25-OCT-2016 03:26

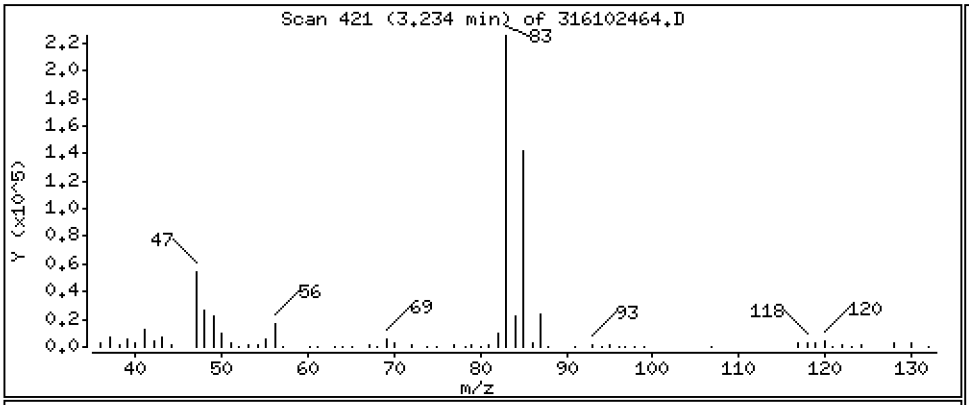
Client ID: LCS for HBN 174041 Instrument: ms03.i

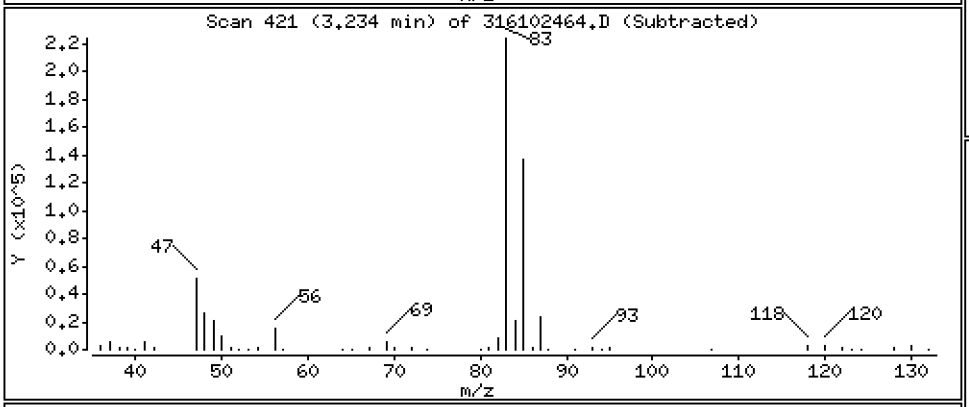
Sample Info: 2428716;;1;3;;LCS;1;

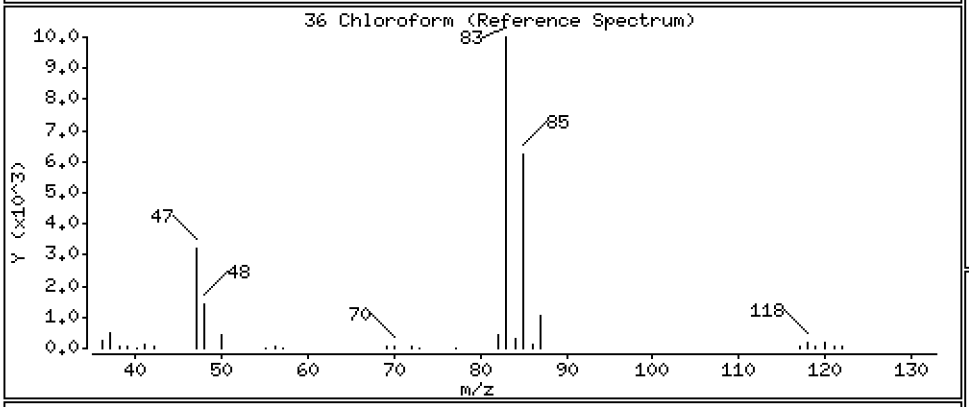
Purge Volume: 5.0 Operator: CJG

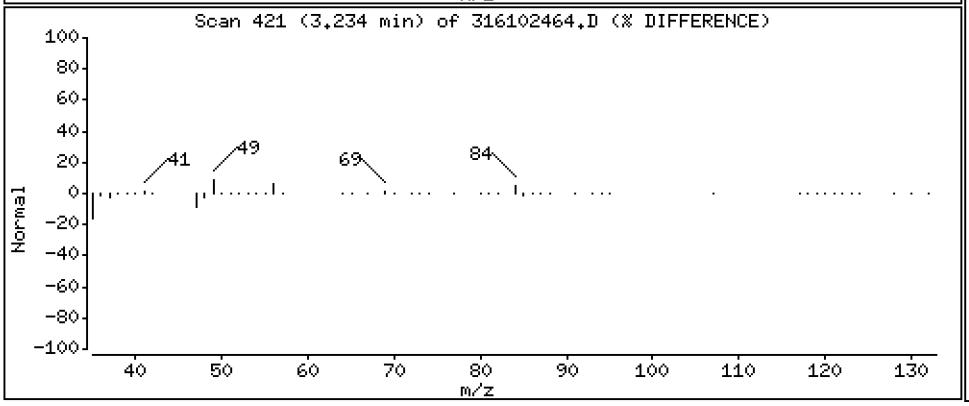
Column phase: DB-VRX Column diameter: 0.25

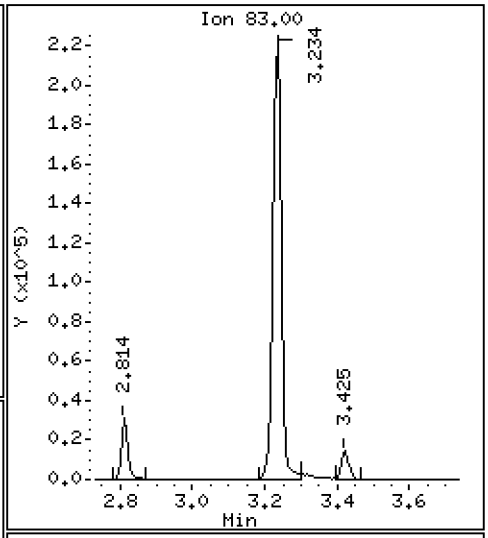
36 Chloroform Concentration: 19.4891 ug/L

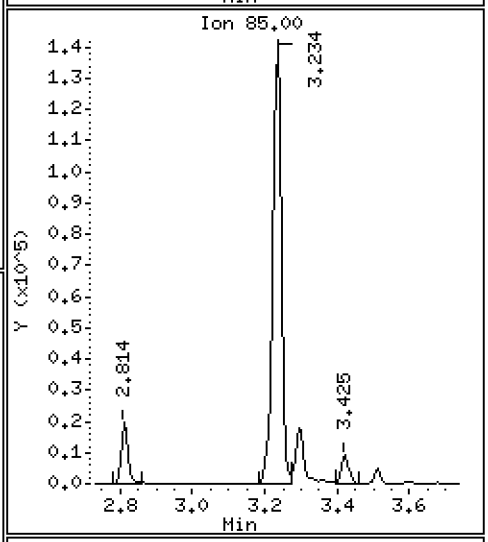


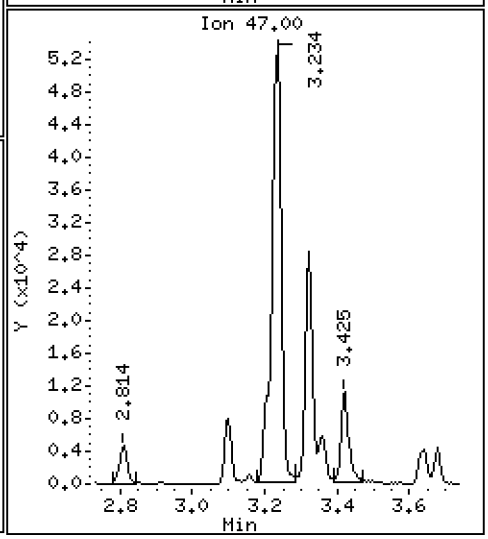












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 49

Date : 25-OCT-2016 03:26

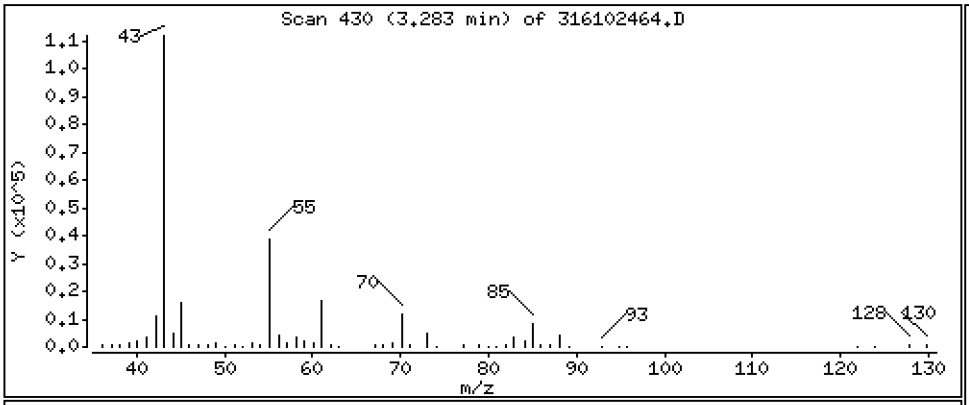
Client ID: LCS for HBN 174041 Instrument: ms03.i

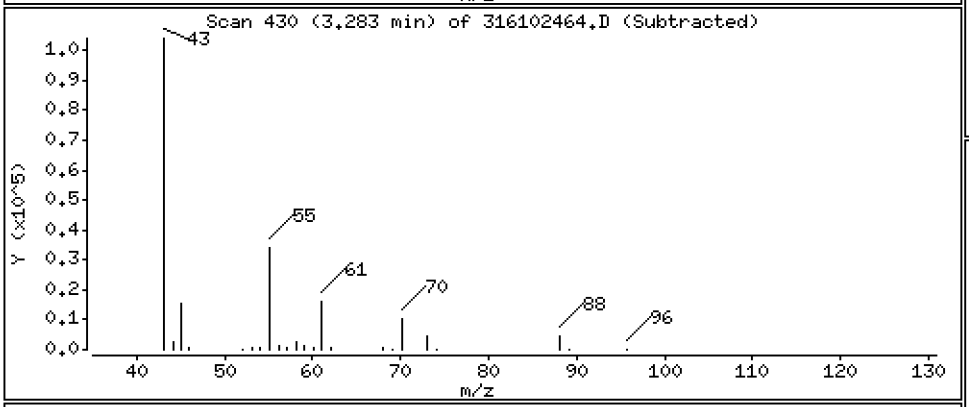
Sample Info: 2428716;;1;3;;LCS;1;

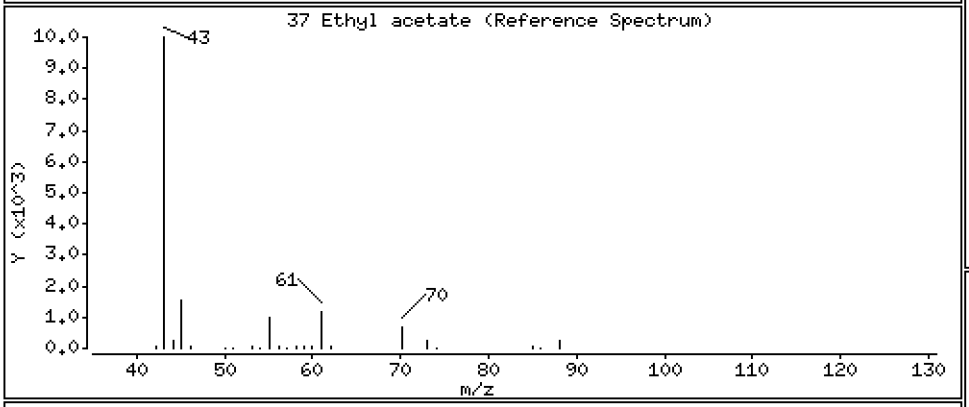
Purge Volume: 5.0 Operator: CJG

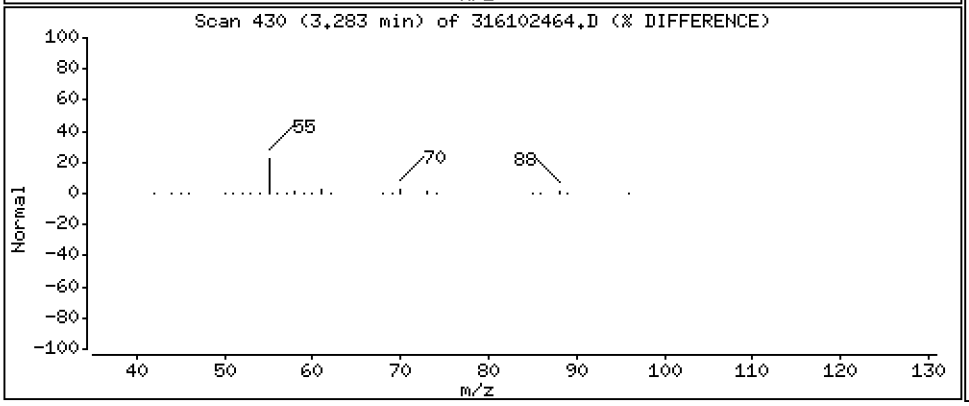
Column phase: DB-VRX Column diameter: 0.25

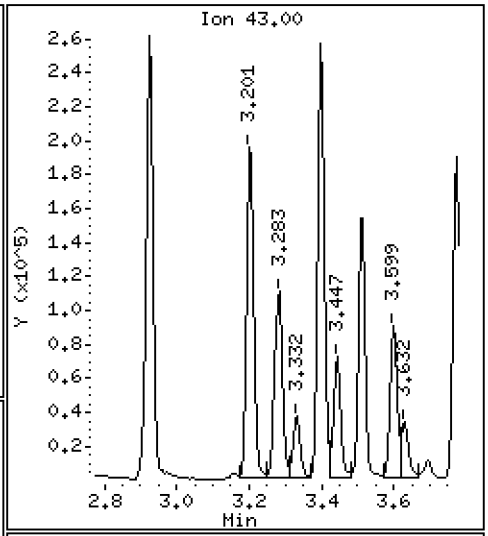
37 Ethyl acetate Concentration: 19.7207 ug/L

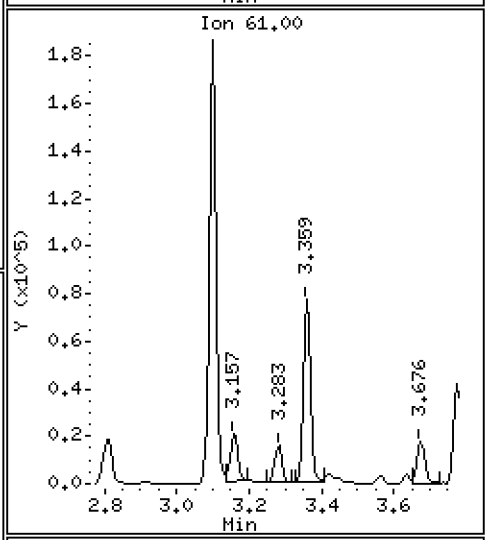


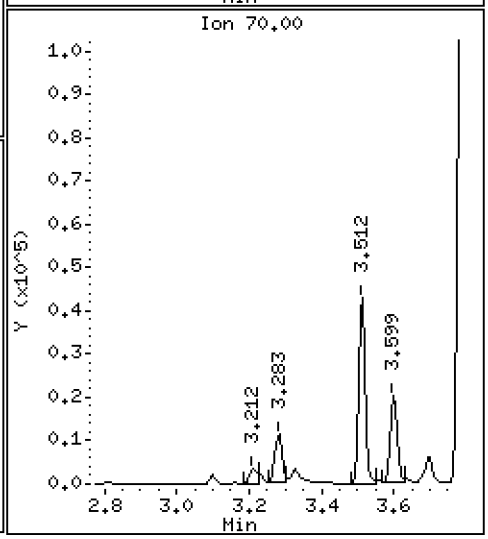












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 50

Date : 25-OCT-2016 03:26

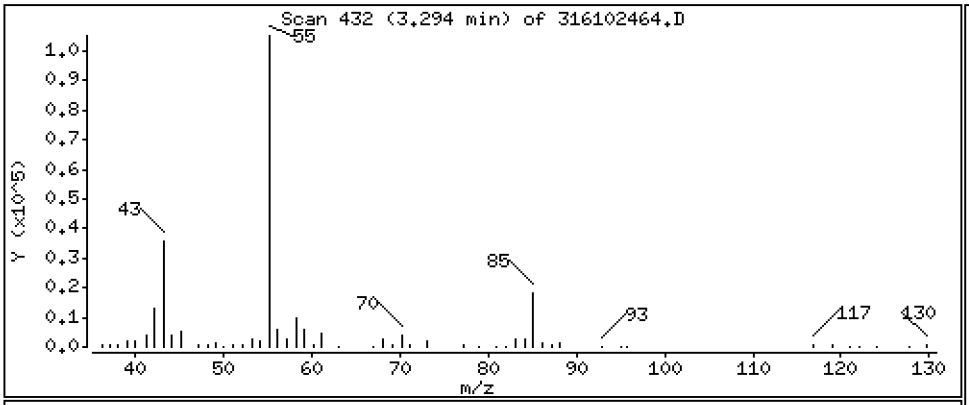
Client ID: LCS for HBN 174041 Instrument: ms03.i

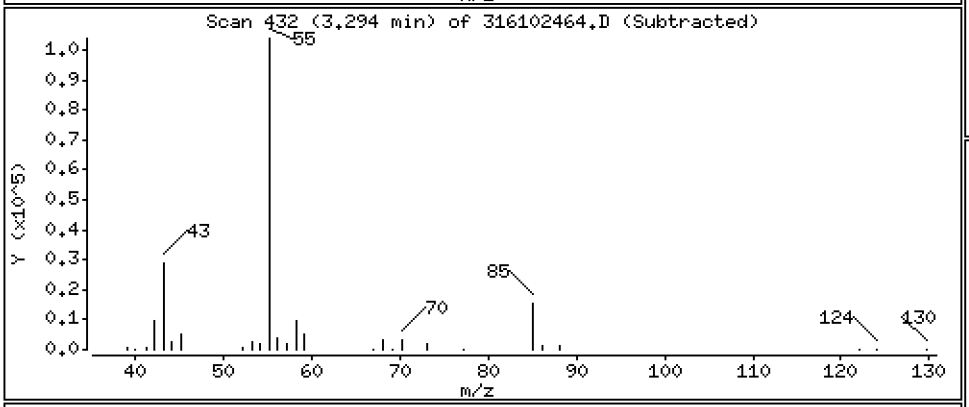
Sample Info: 2428716;;1;3;;LCS;1;

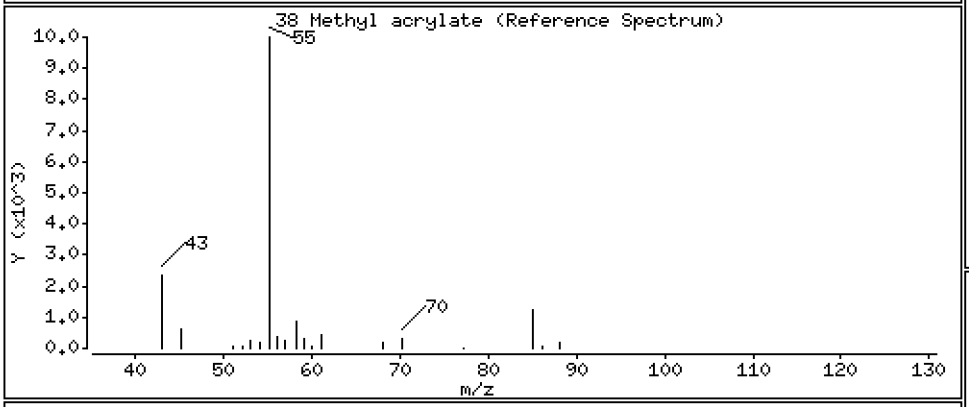
Purge Volume: 5.0 Operator: CJG

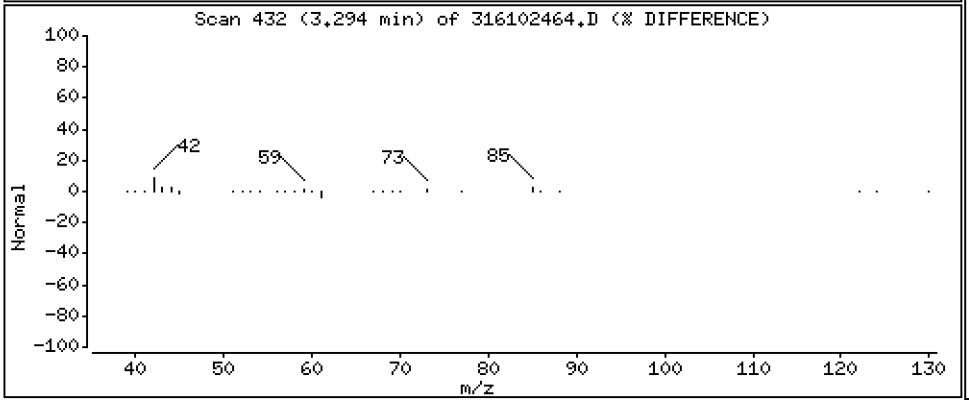
Column phase: DB-VRX Column diameter: 0.25

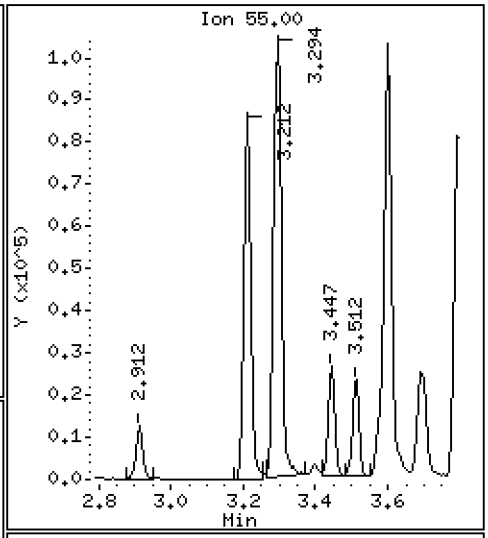
38 Methyl acrylate Concentration: 18.6211 ug/L

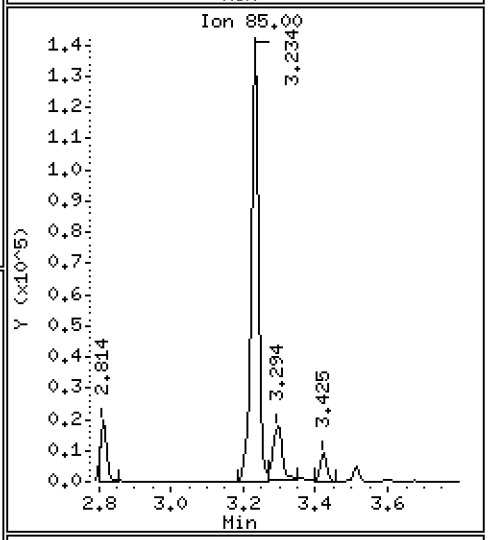


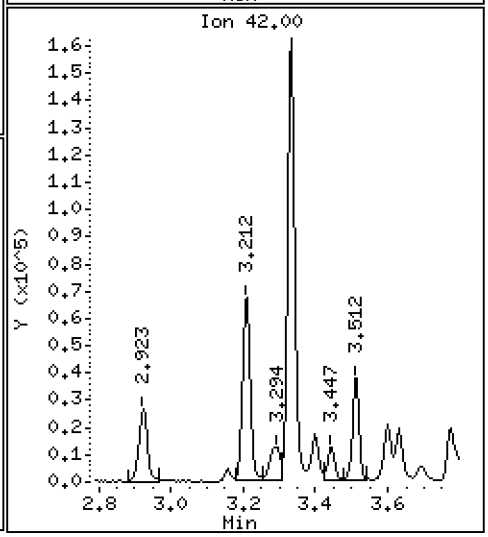












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 51

Date : 25-OCT-2016 03:26

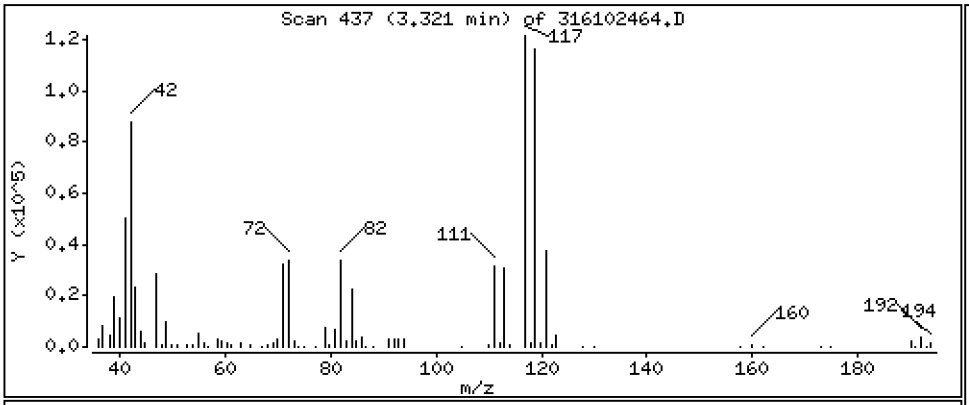
Client ID: LCS for HBN 174041 Instrument: ms03.i

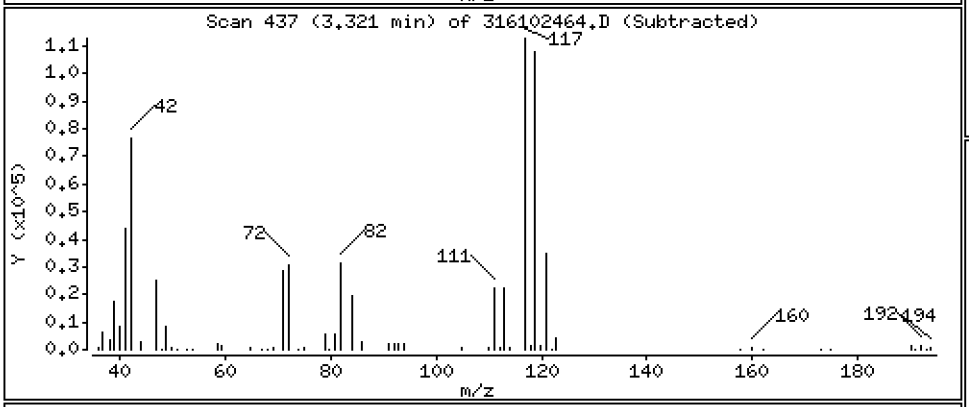
Sample Info: 2428716;;1;3;;LCS;1;

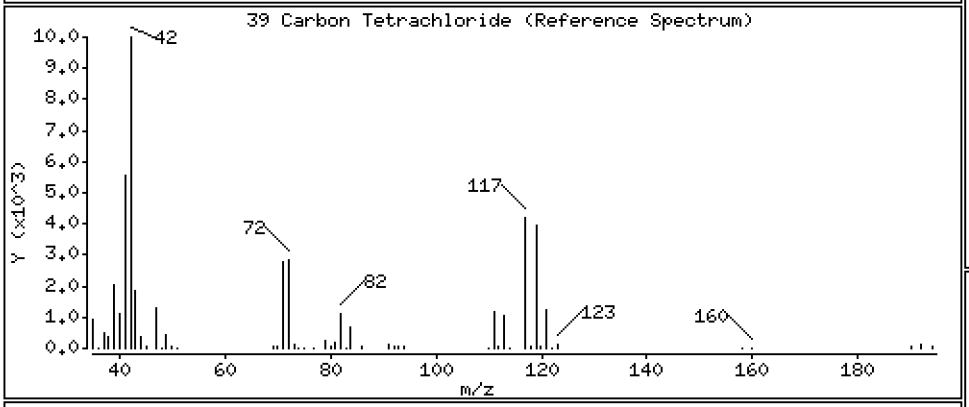
Purge Volume: 5.0 Operator: CJG

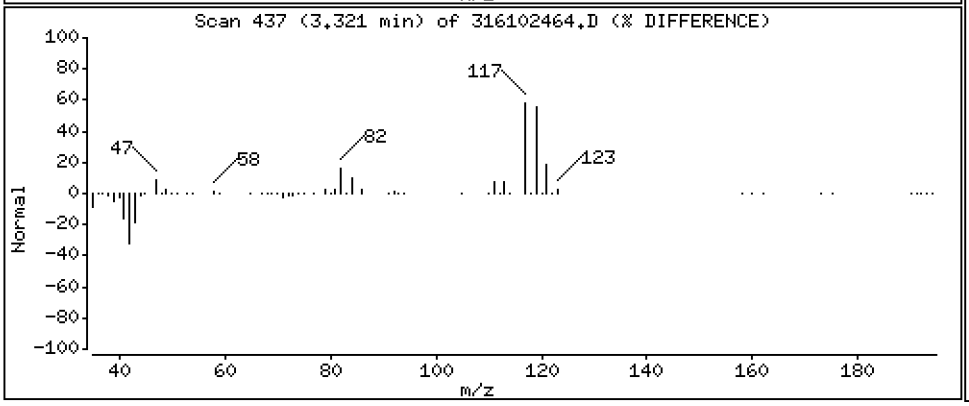
Column phase: DB-VRX Column diameter: 0.25

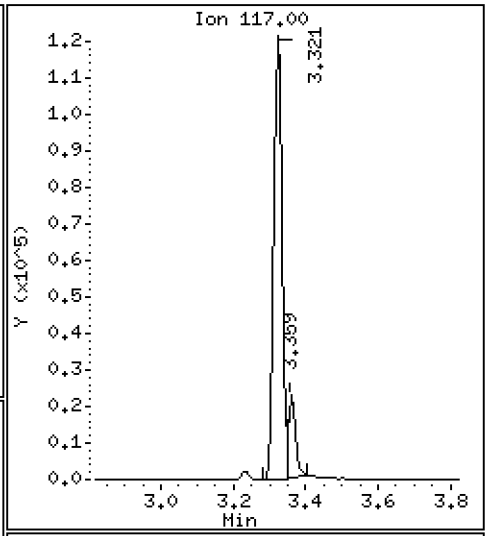
39 Carbon Tetrachloride Concentration: 18.7837 ug/L

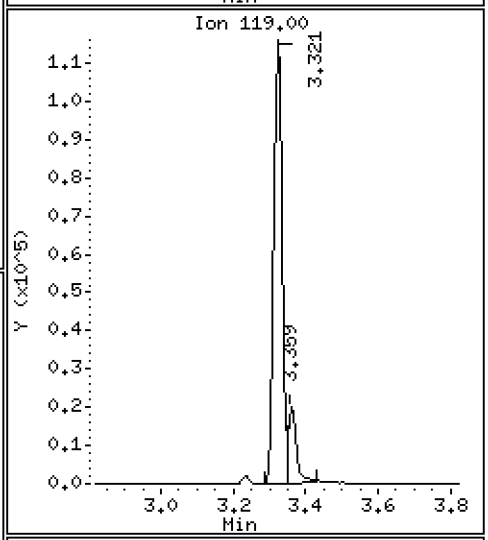


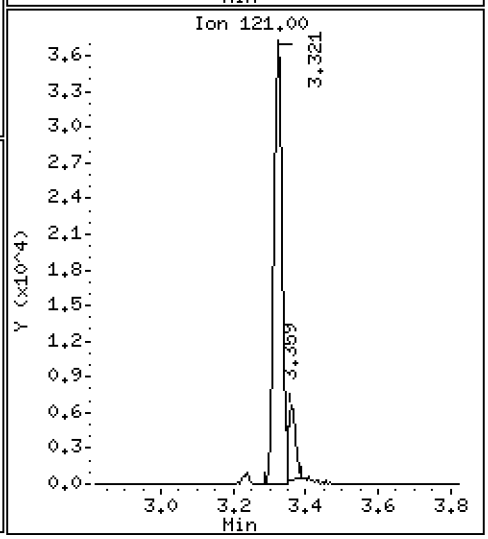












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 52

Date : 25-OCT-2016 03:26

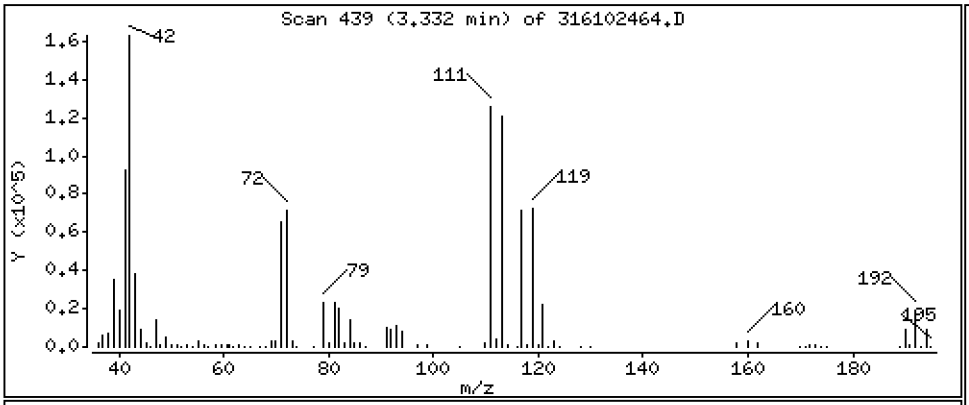
Client ID: LCS for HBN 174041 Instrument: ms03.i

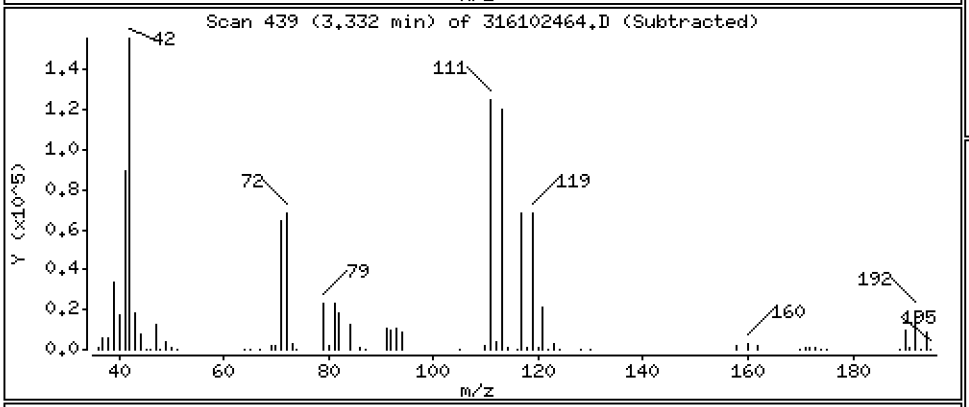
Sample Info: 2428716;;1;3;;LCS;1;

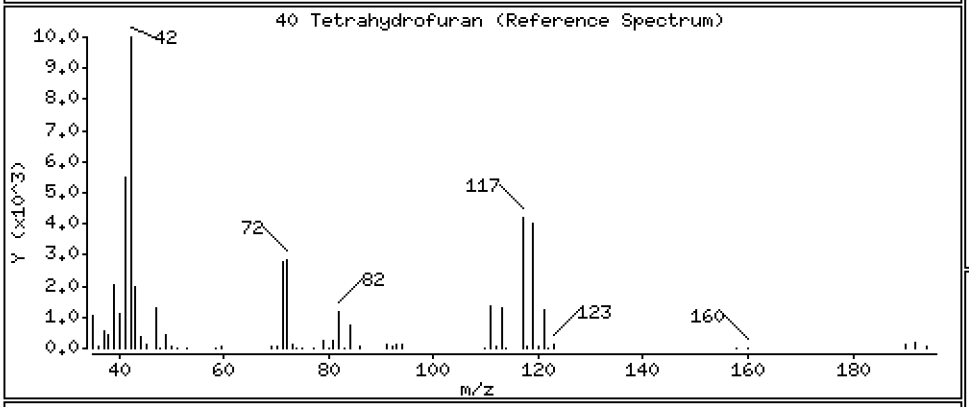
Purge Volume: 5.0 Operator: CJG

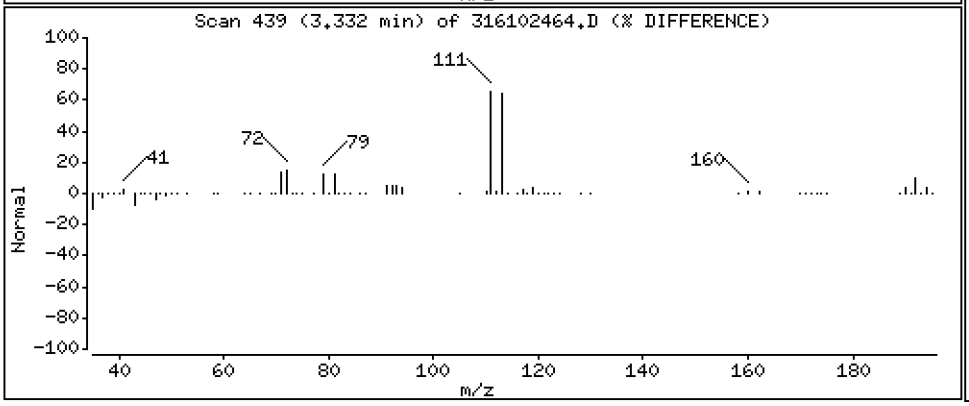
Column phase: DB-VRX Column diameter: 0.25

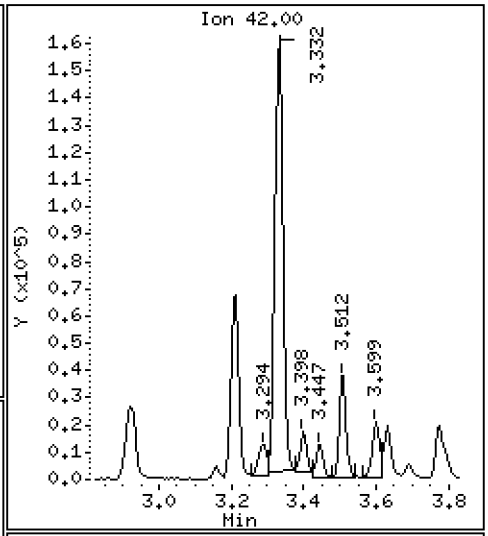
40 Tetrahydrofuran Concentration: 92.0853 ug/L

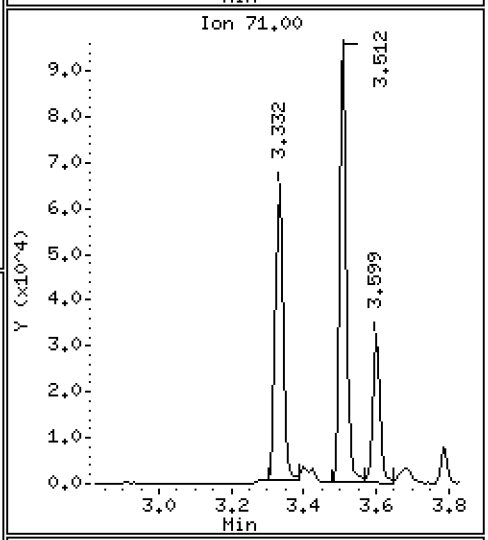


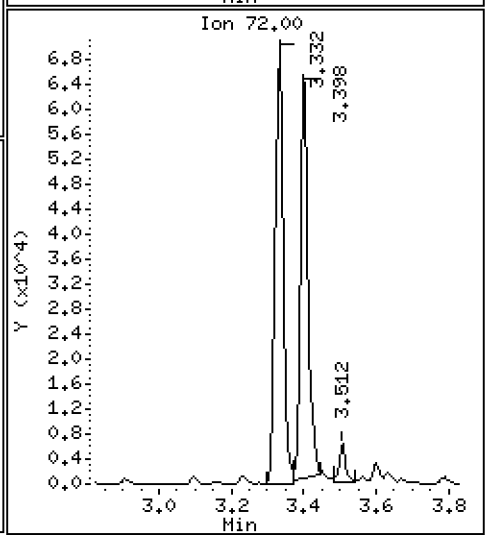












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 53

Date : 25-OCT-2016 03:26

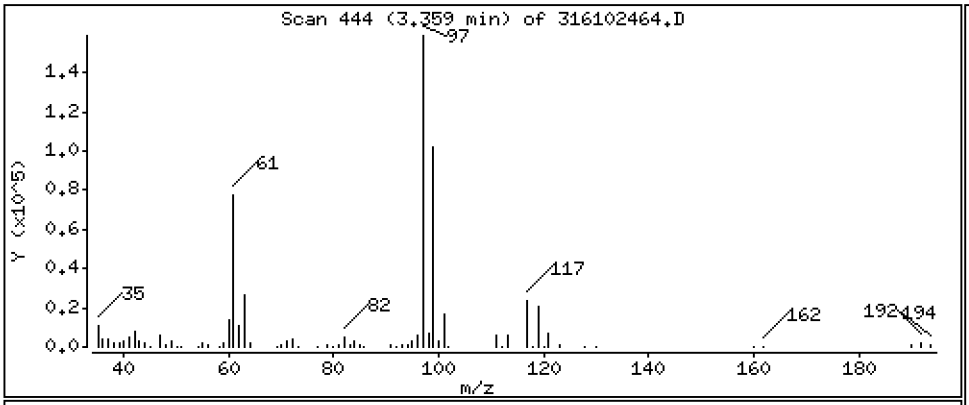
Client ID: LCS for HBN 174041 Instrument: ms03.i

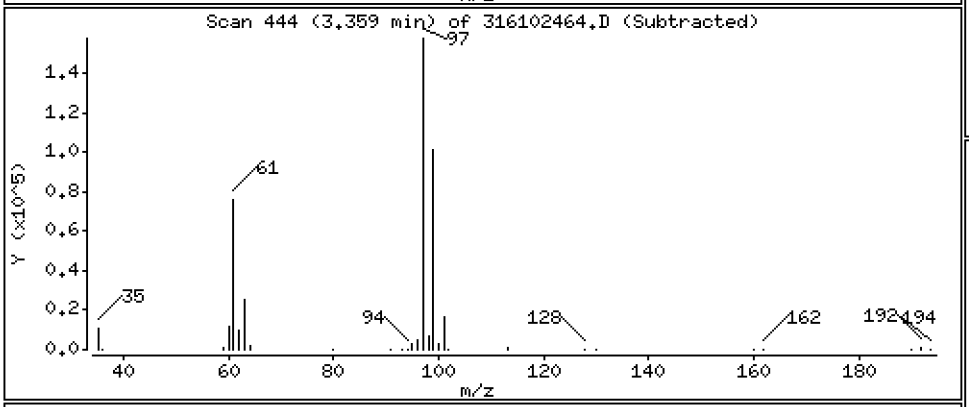
Sample Info: 2428716;;1;3;;LCS;1;

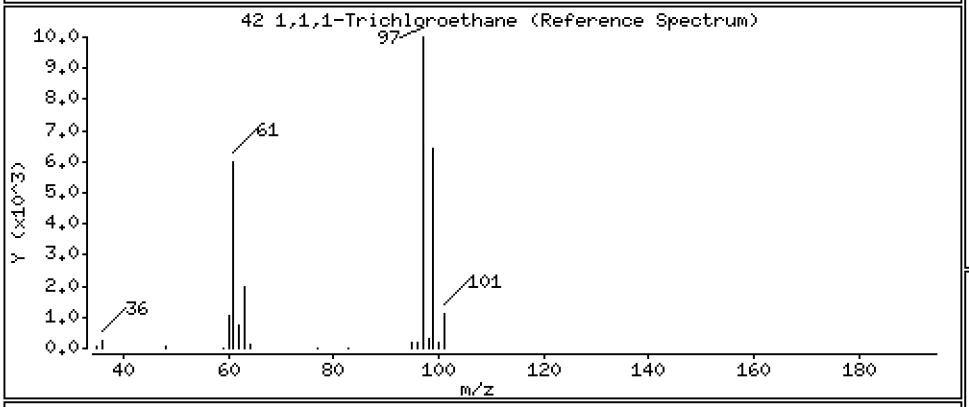
Purge Volume: 5.0 Operator: CJG

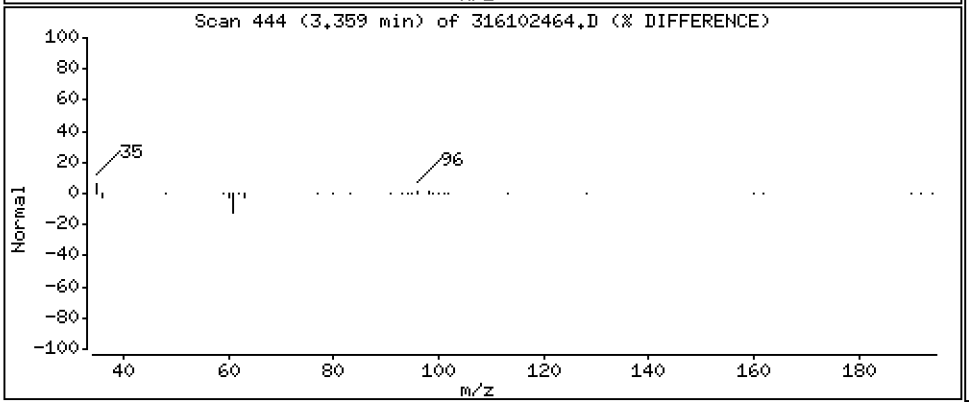
Column phase: DB-VRX Column diameter: 0.25

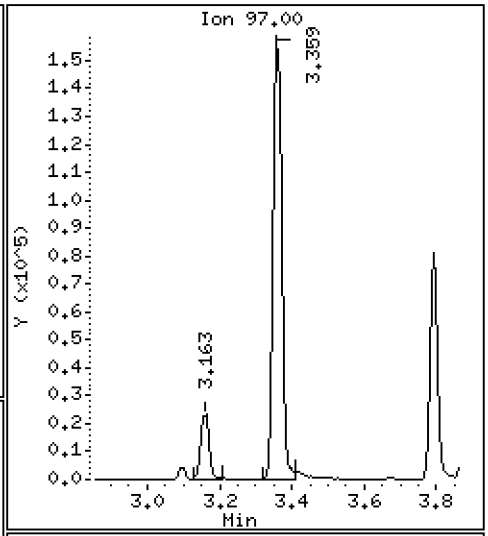
42 1,1,1-Trichloroethane Concentration: 18.9740 ug/L

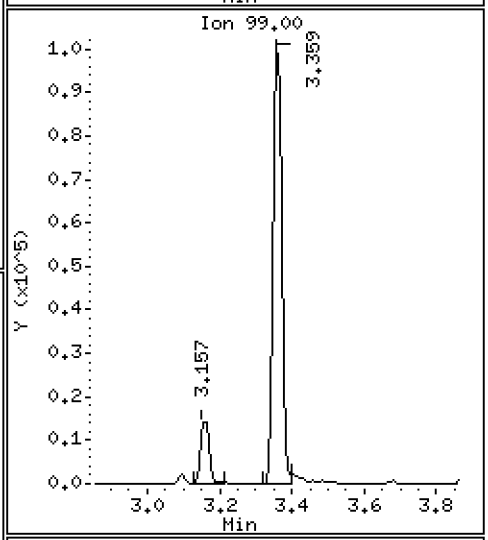


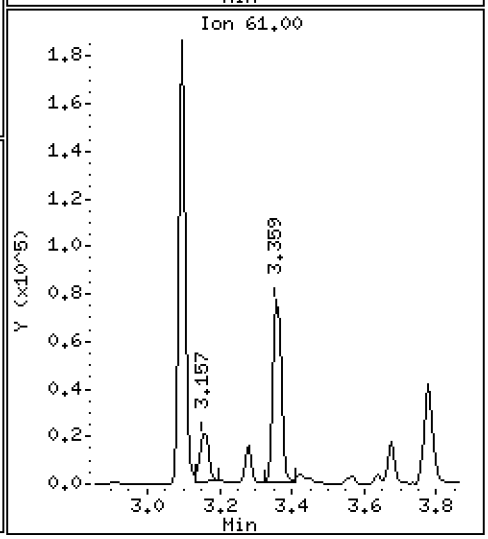












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 54

Date : 25-OCT-2016 03:26

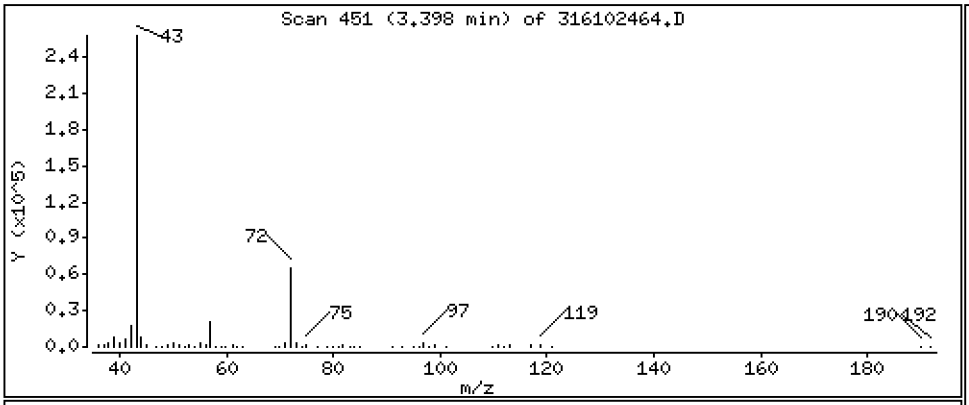
Client ID: LCS for HBN 174041 Instrument: ms03.i

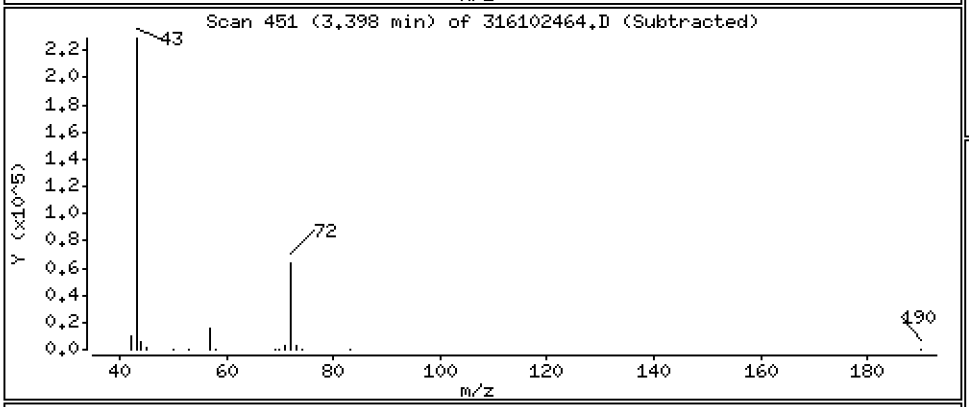
Sample Info: 2428716;;1;3;;LCS;1;

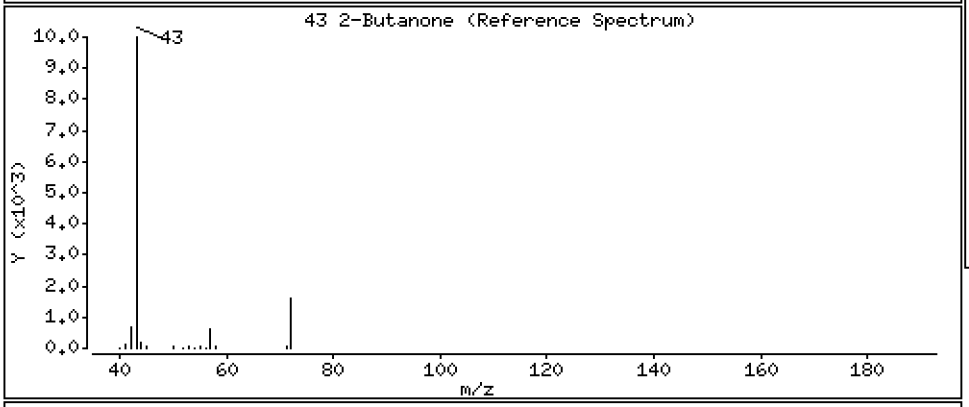
Purge Volume: 5.0 Operator: CJG

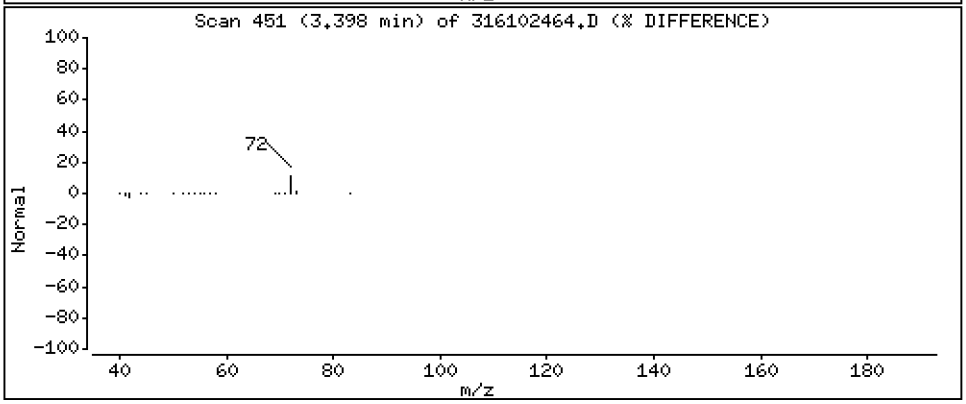
Column phase: DB-VRX Column diameter: 0.25

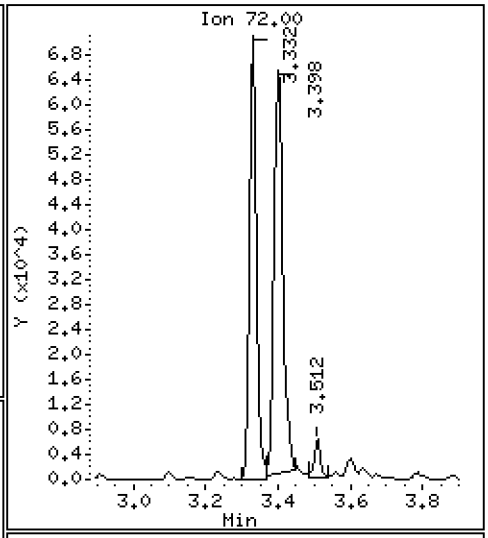
43 2-Butanone Concentration: 95.2665 ug/L

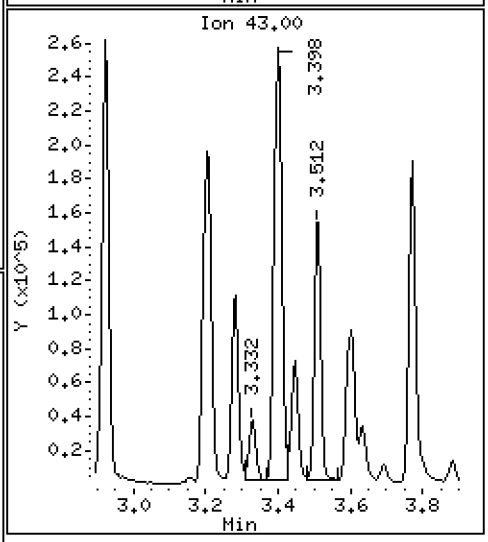












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 55

Date : 25-OCT-2016 03:26

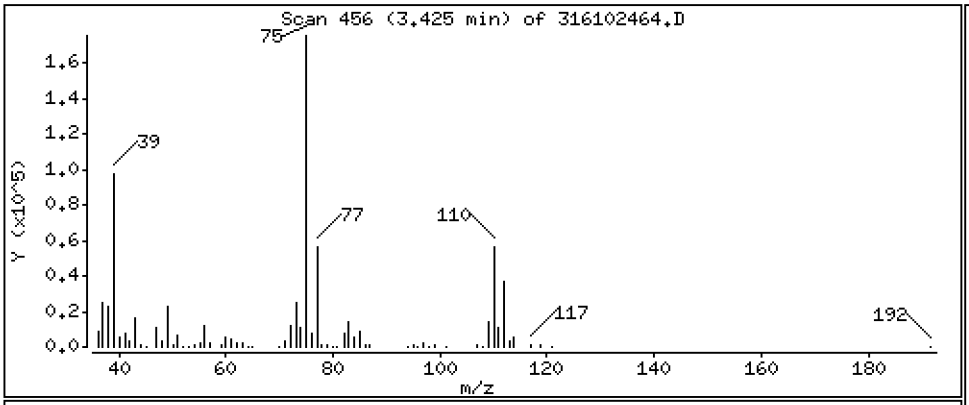
Client ID: LCS for HBN 174041 Instrument: ms03.i

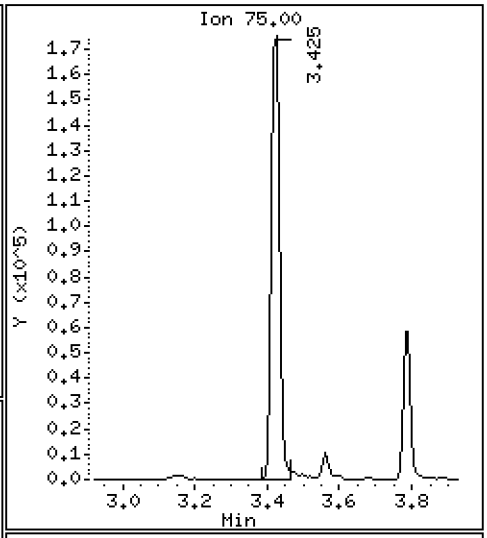
Sample Info: 2428716;;1;3;;LCS;1;

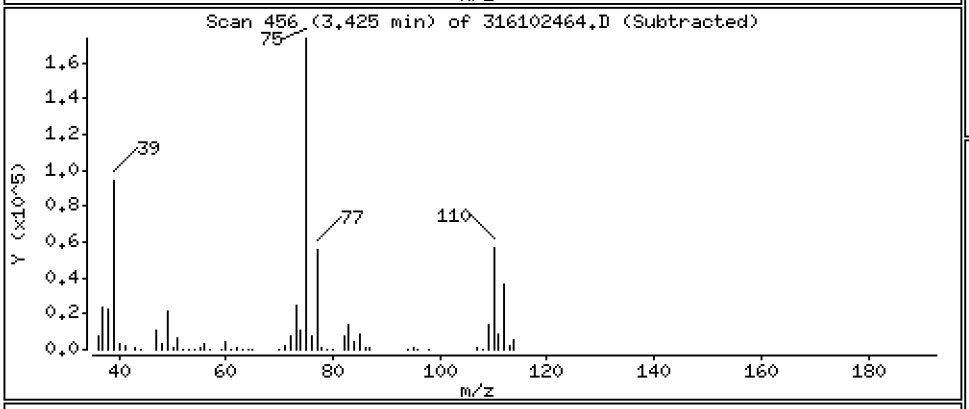
Purge Volume: 5.0 Operator: CJG

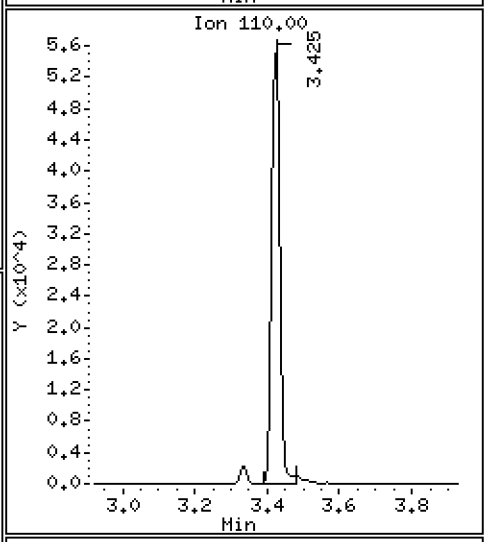
Column phase: DB-VRX Column diameter: 0.25

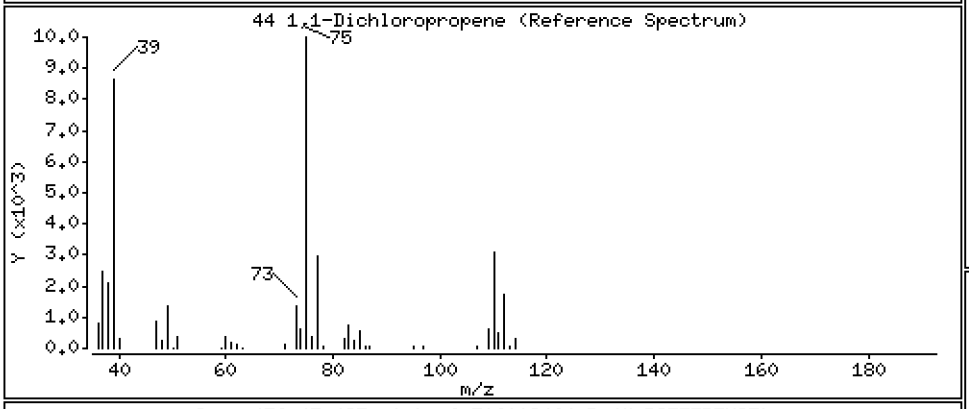
44 1,1-Dichloropropene Concentration: 18.9055 ug/L

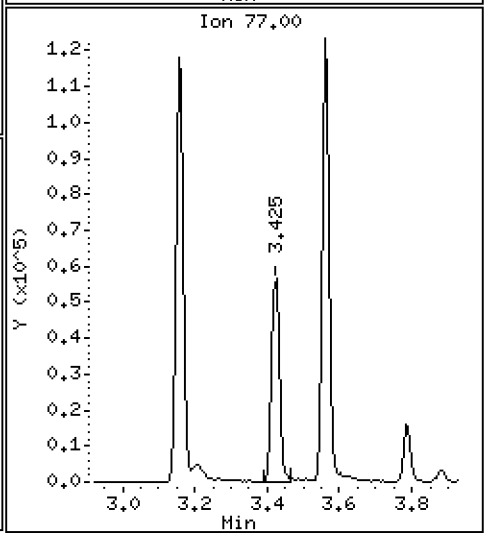


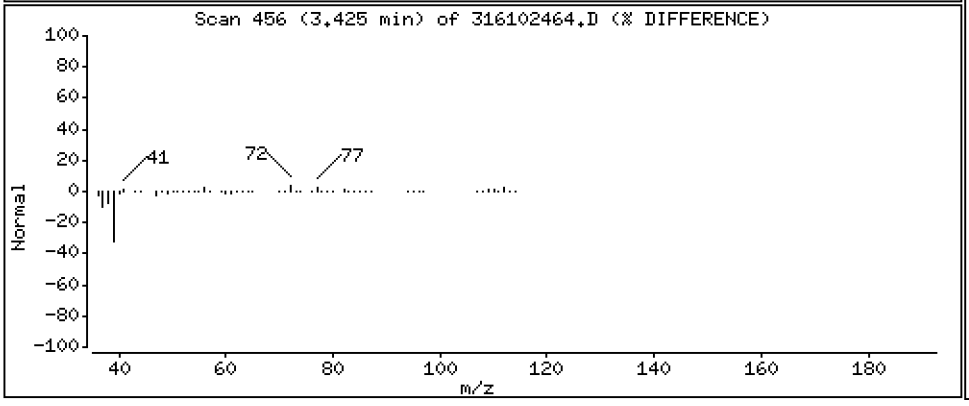












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 56

Date : 25-OCT-2016 03:26

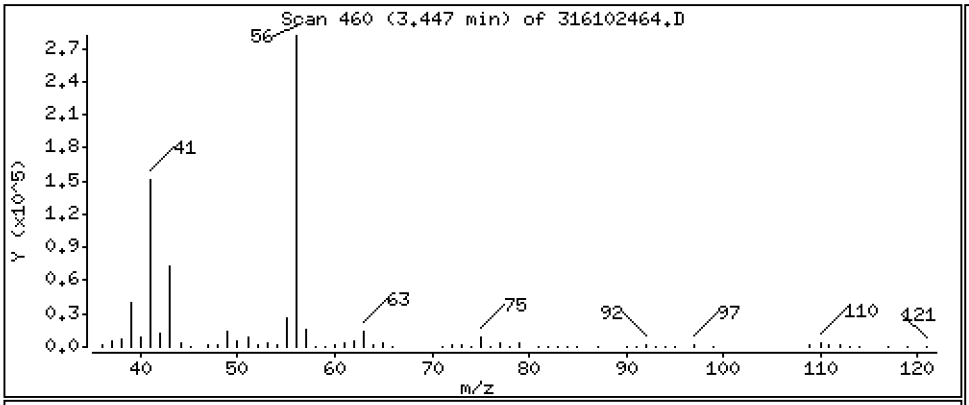
Client ID: LCS for HBN 174041 Instrument: ms03.i

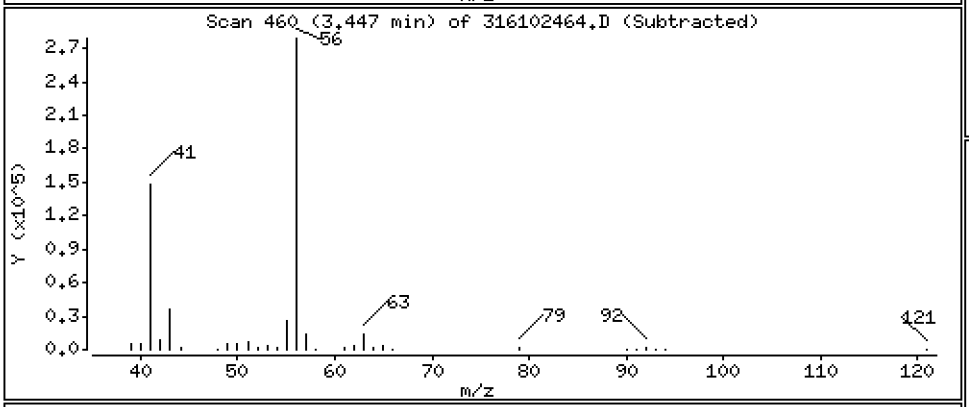
Sample Info: 2428716;;1;3;;LCS;1;

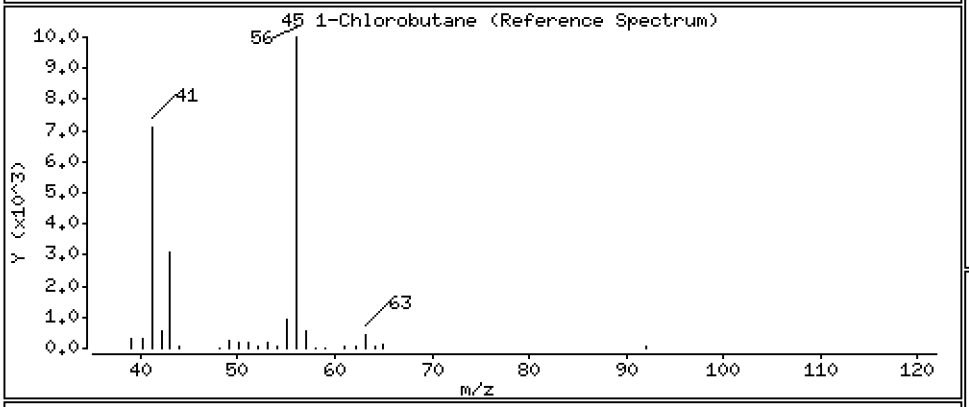
Purge Volume: 5.0 Operator: CJG

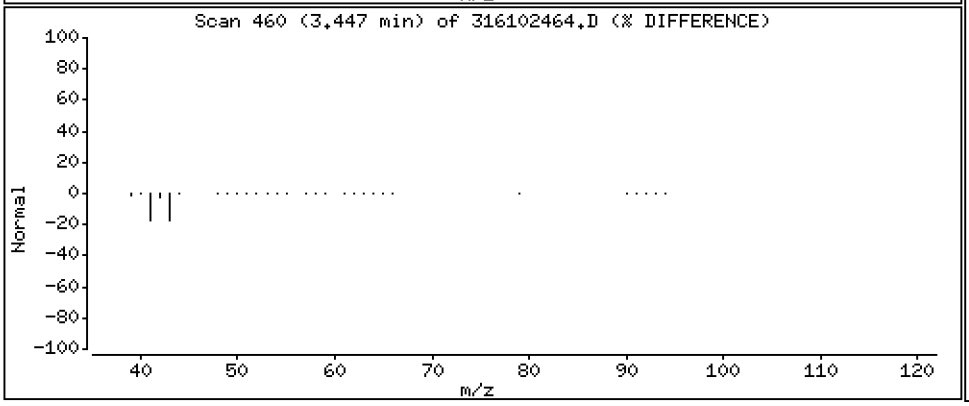
Column phase: DB-VRX Column diameter: 0.25

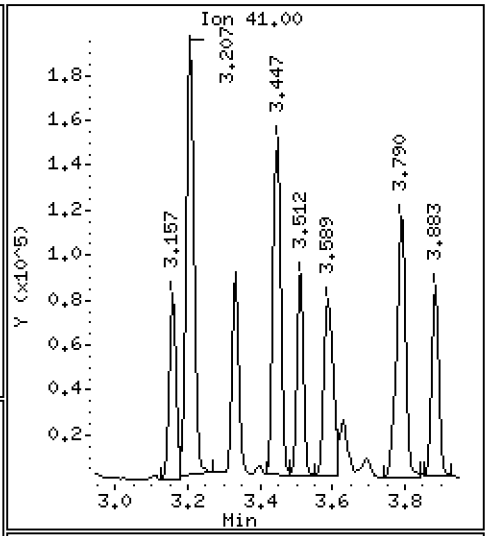
45 1-Chlorobutane Concentration: 20.7033 ug/L

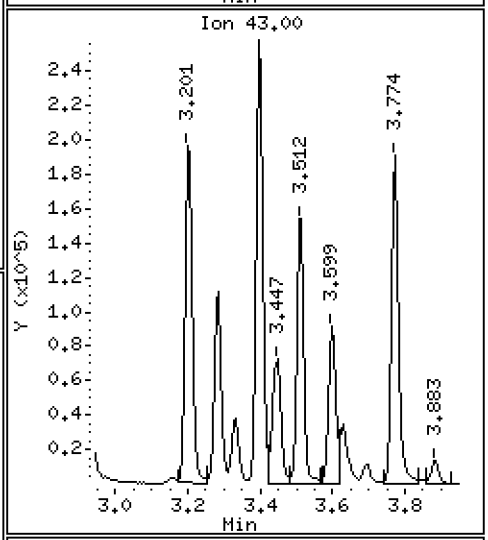


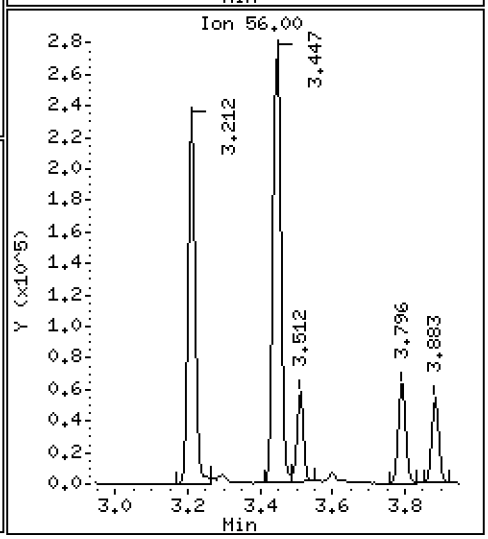












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 57

Date : 25-OCT-2016 03:26

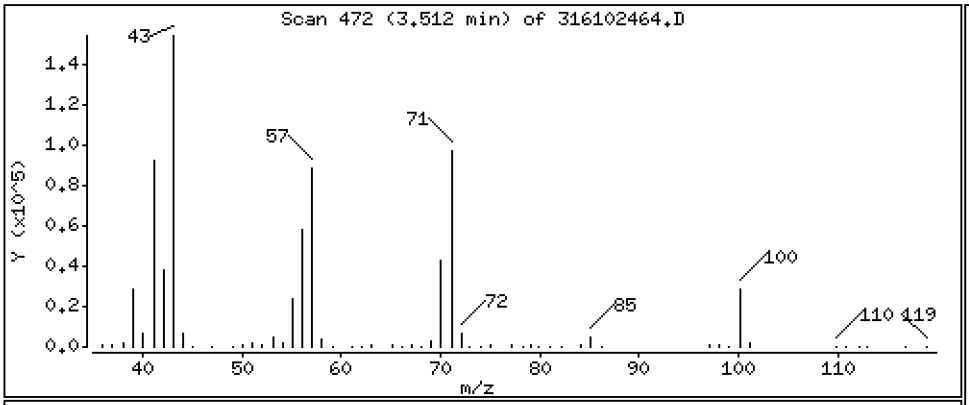
Client ID: LCS for HBN 174041 Instrument: ms03.i

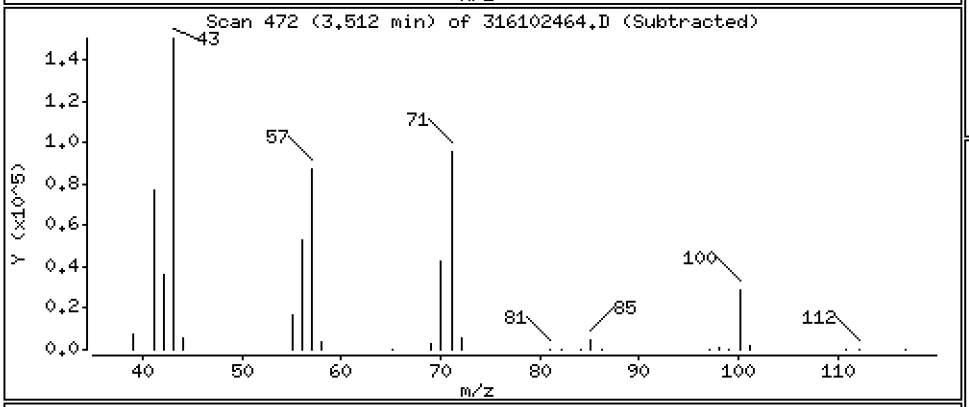
Sample Info: 2428716;;1;3;;LCS;1;

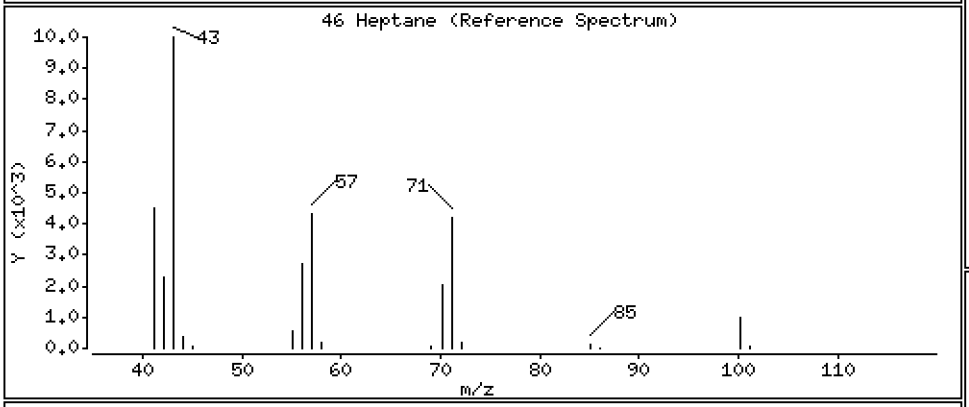
Purge Volume: 5.0 Operator: CJG

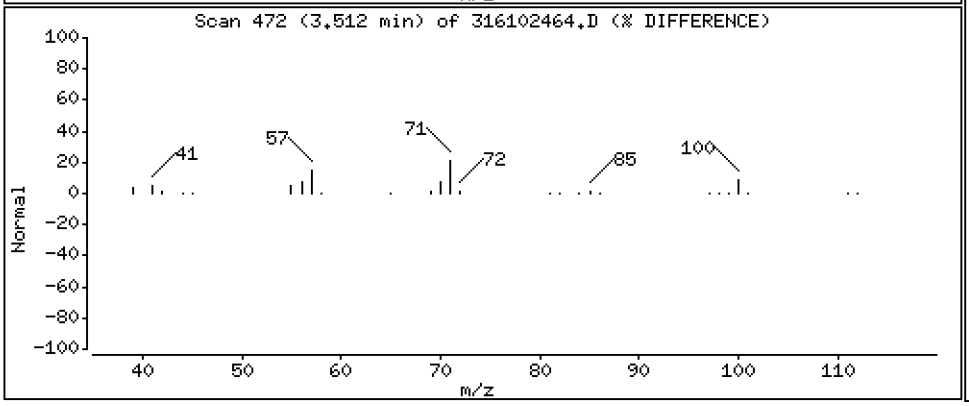
Column phase: DB-VRX Column diameter: 0.25

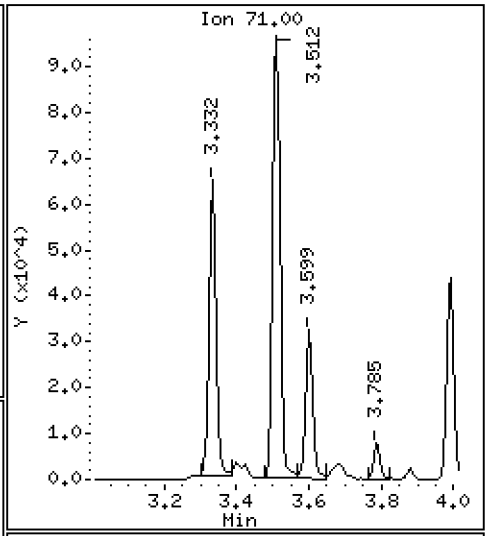
46 Heptane Concentration: 20.9633 ug/L

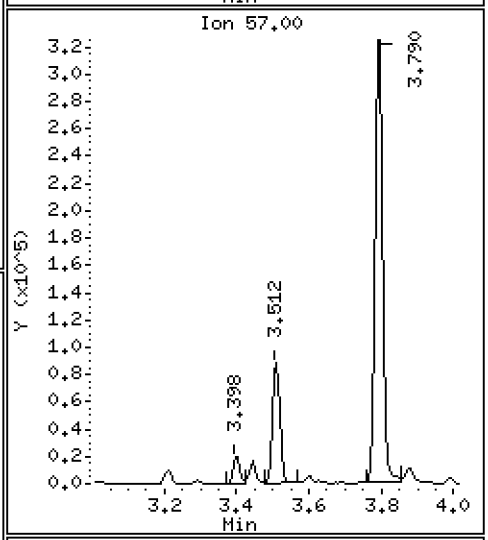


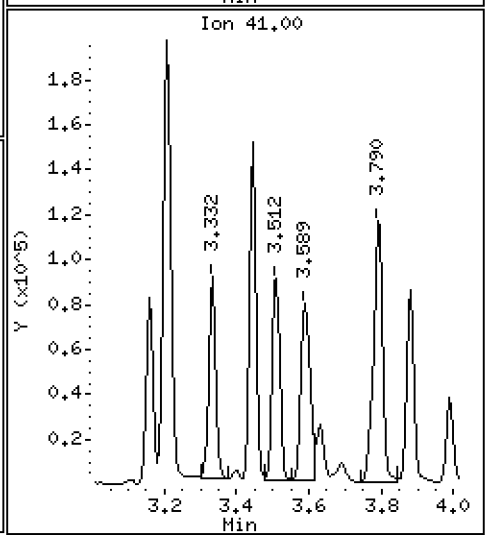












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 58

Date : 25-OCT-2016 03:26

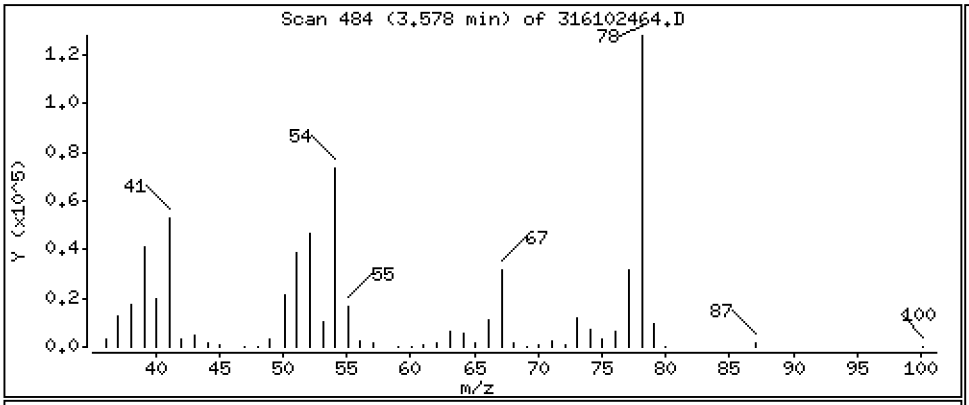
Client ID: LCS for HBN 174041 Instrument: ms03.i

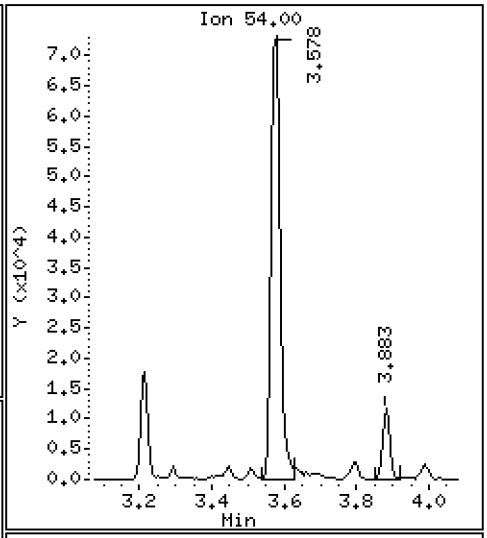
Sample Info: 2428716;;1;3;;LCS;1;

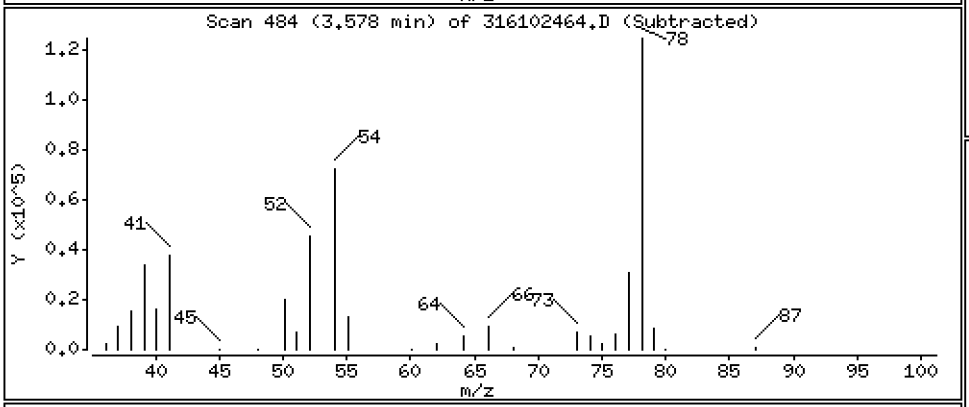
Purge Volume: 5.0 Operator: CJG

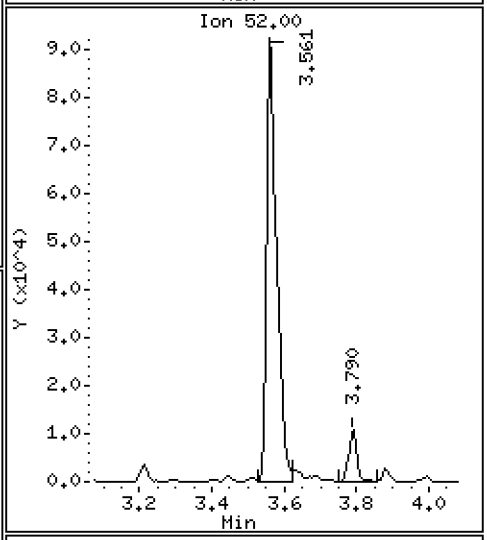
Column phase: DB-VRX Column diameter: 0.25

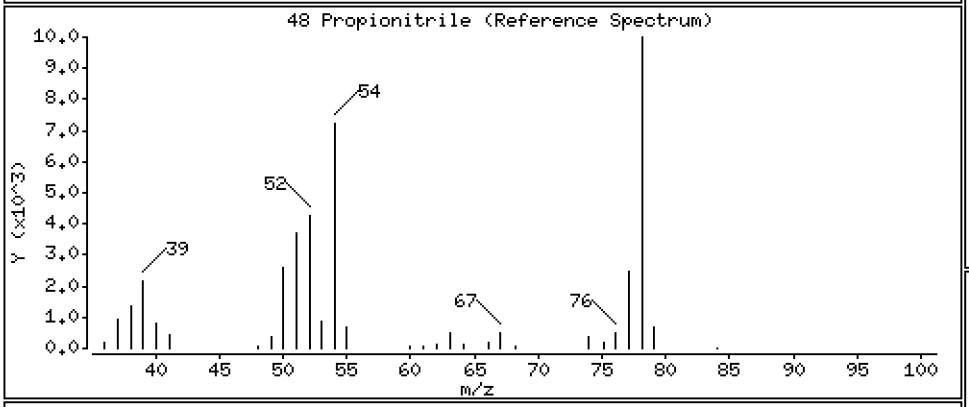
48 Propionitrile Concentration: 96.1541 ug/L

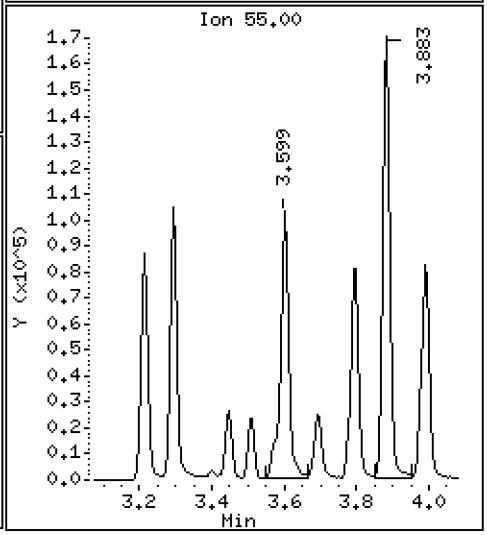


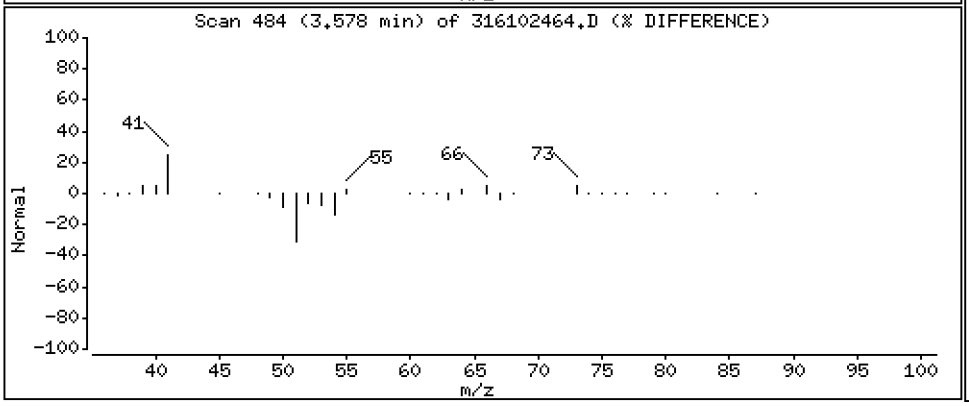












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 59

Date : 25-OCT-2016 03:26

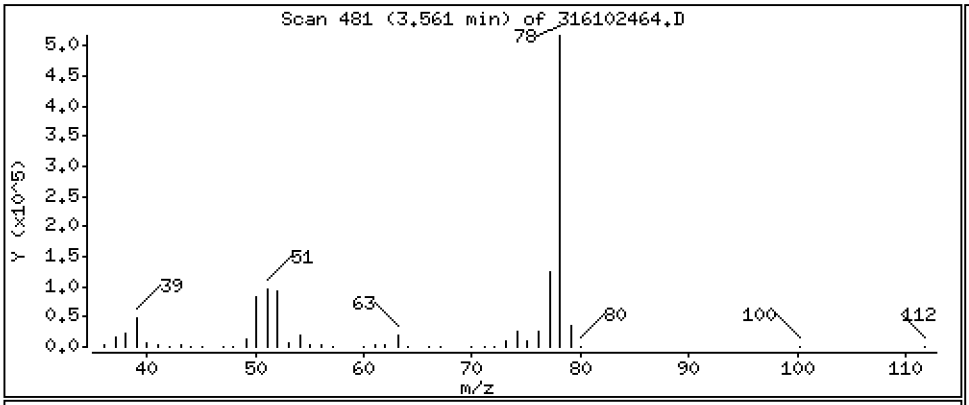
Client ID: LCS for HBN 174041 Instrument: ms03.i

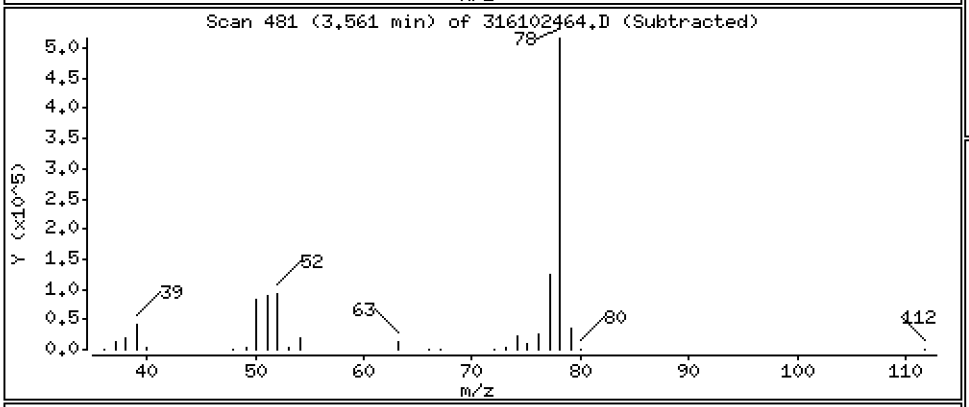
Sample Info: 2428716;;1;3;;LCS;1;

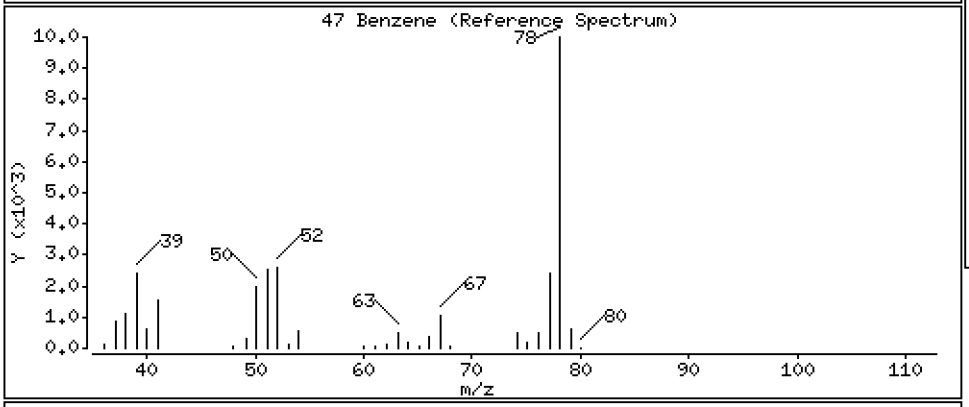
Purge Volume: 5.0 Operator: CJG

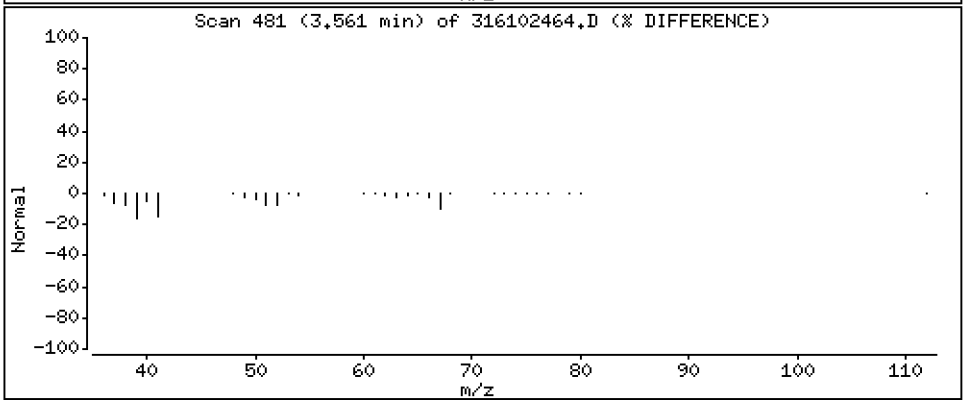
Column phase: DB-VRX Column diameter: 0.25

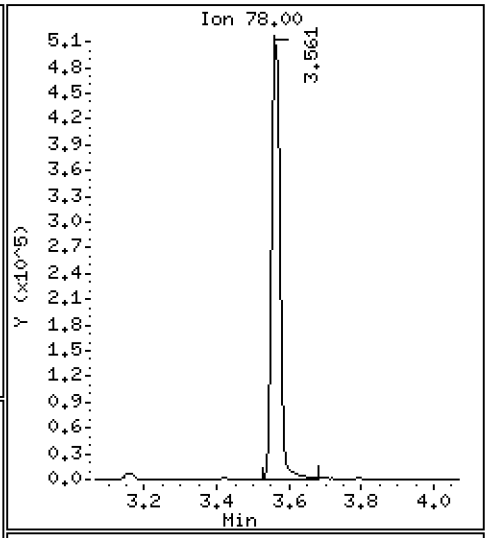
47 Benzene Concentration: 18.2059 ug/L

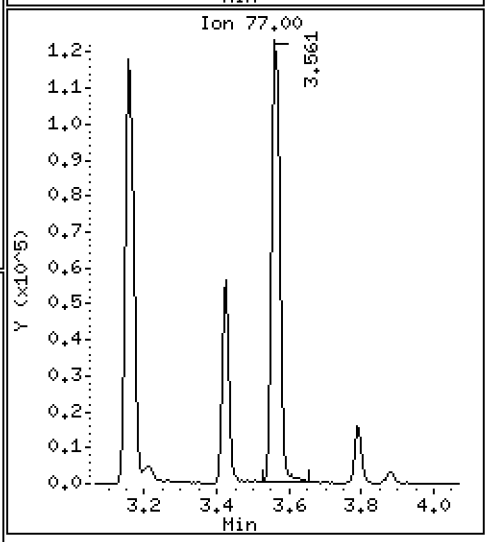












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 60

Date : 25-OCT-2016 03:26

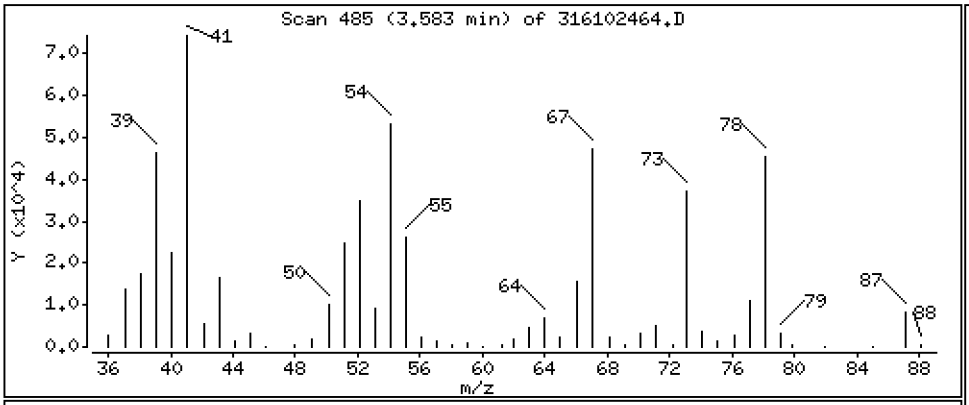
Client ID: LCS for HBN 174041 Instrument: ms03.i

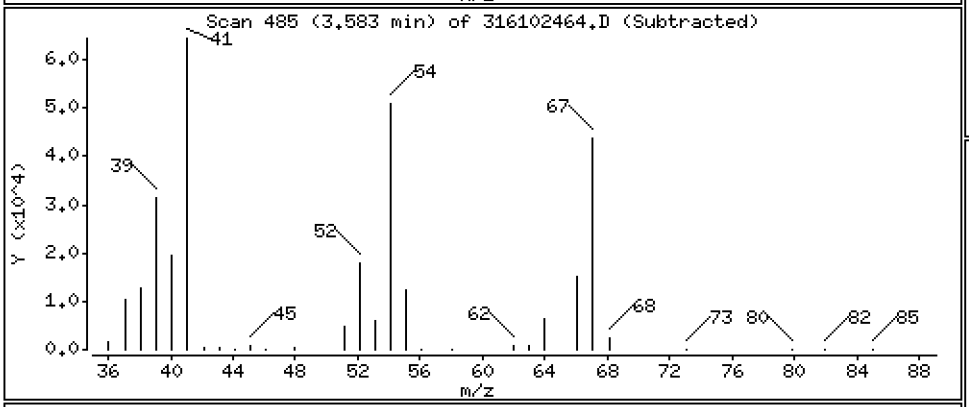
Sample Info: 2428716;;1;3;;LCS;1;

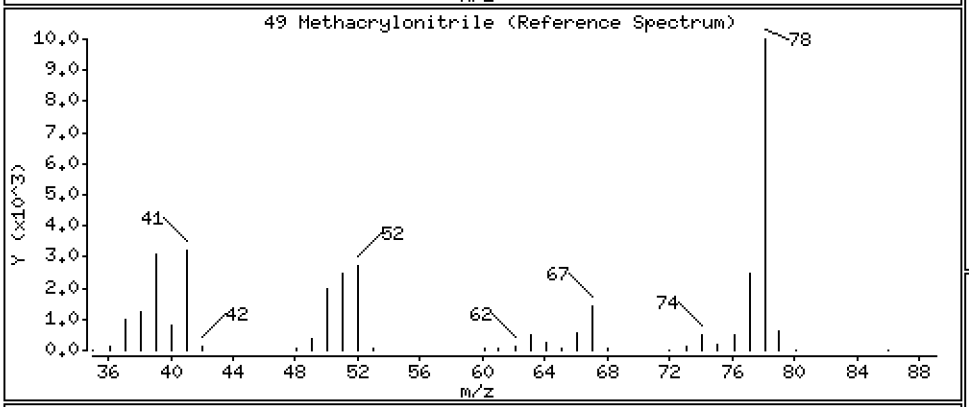
Purge Volume: 5.0 Operator: CJG

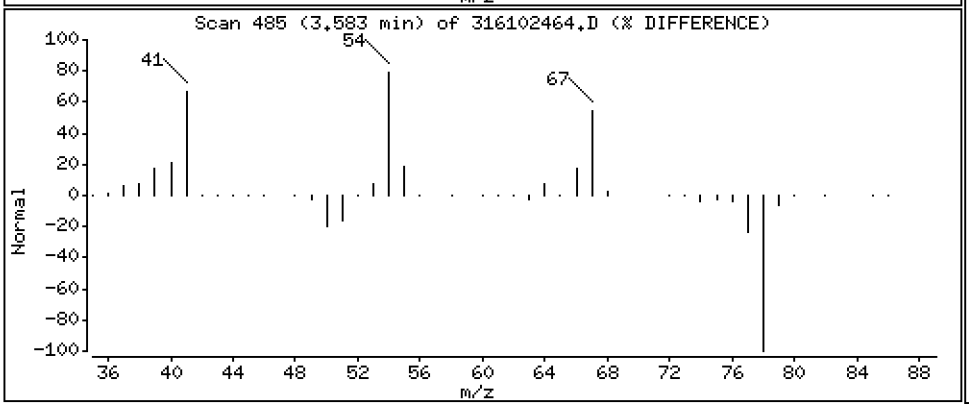
Column phase: DB-VRX Column diameter: 0.25

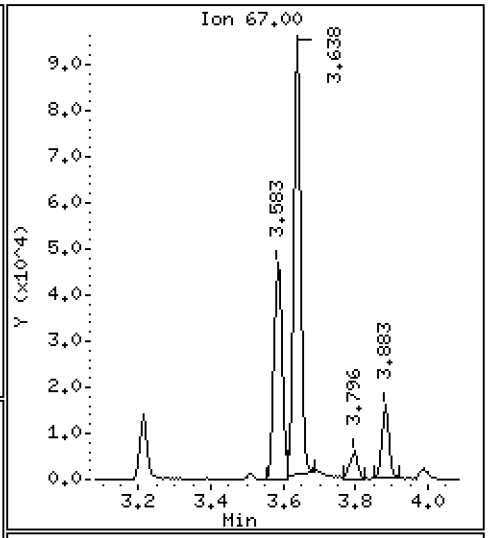
49 Methacrylonitrile Concentration: 18.3736 ug/L

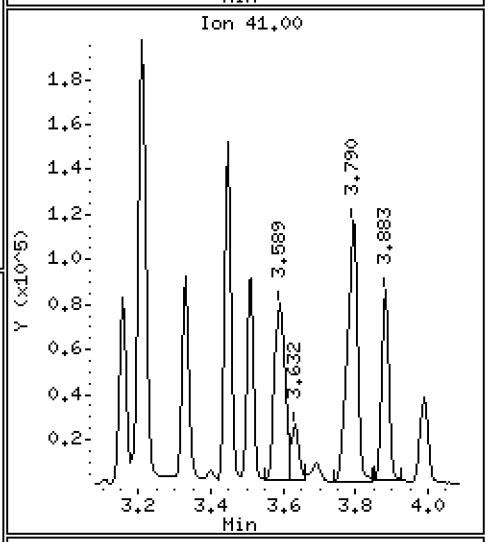


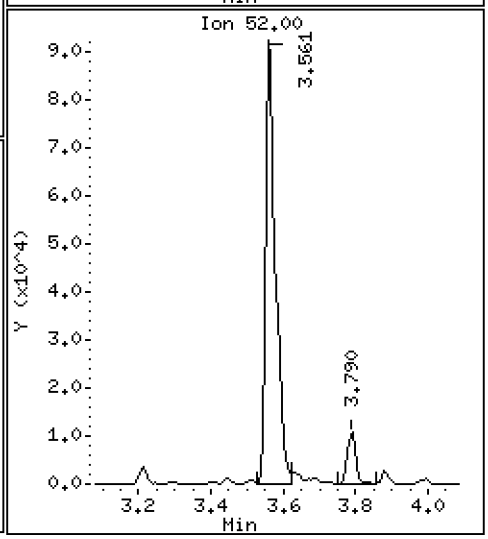












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 61

Date : 25-OCT-2016 03:26

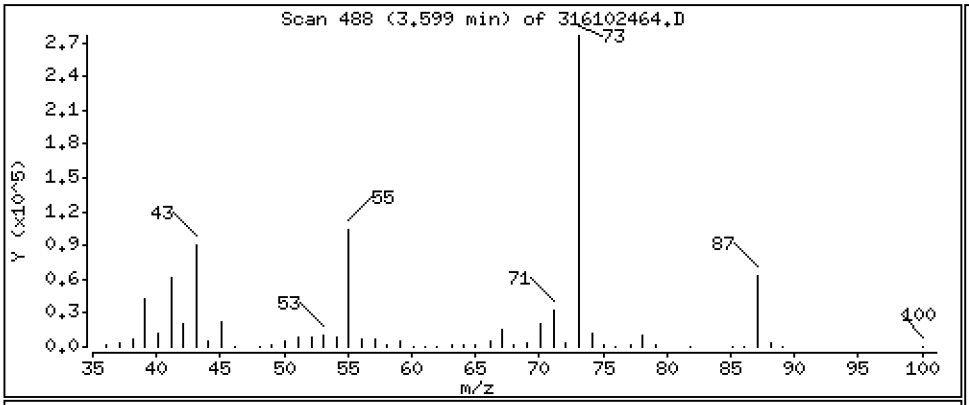
Client ID: LCS for HBN 174041 Instrument: ms03.i

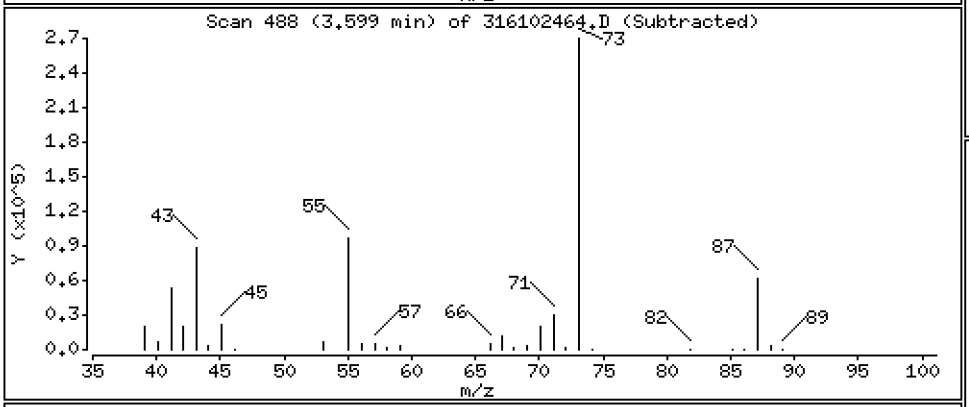
Sample Info: 2428716;;1;3;;LCS;1;

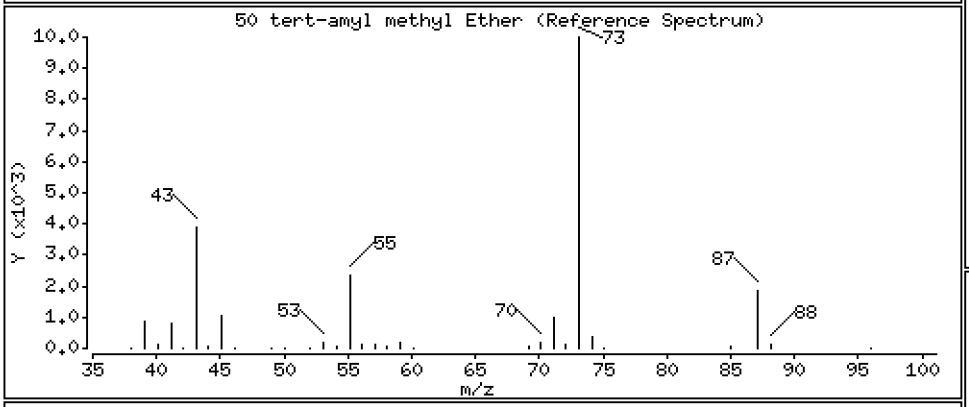
Purge Volume: 5.0 Operator: CJG

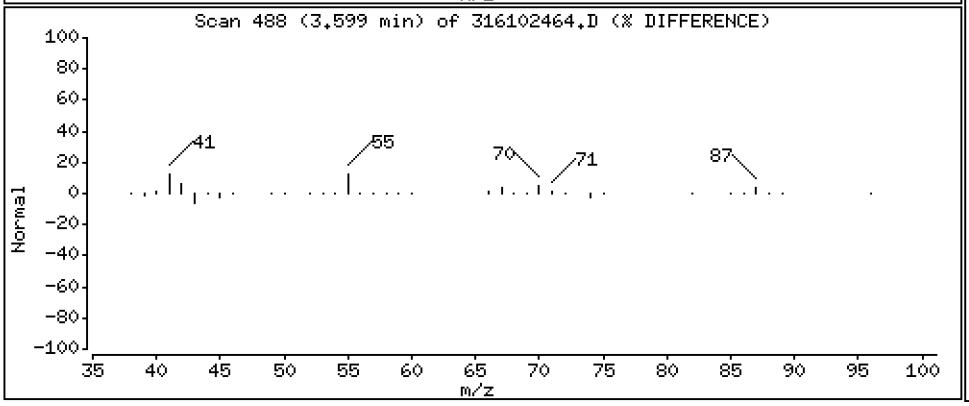
Column phase: DB-VRX Column diameter: 0.25

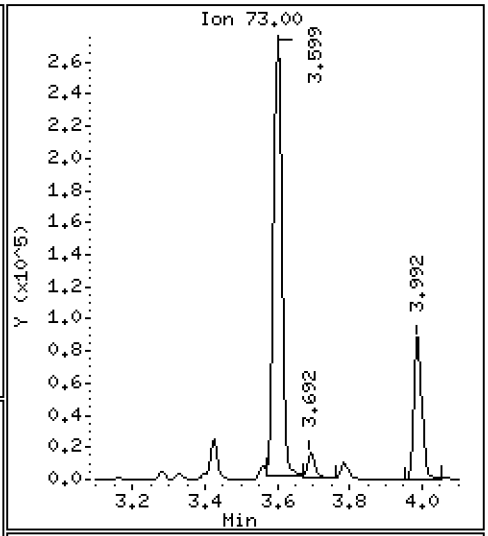
50 tert-amyl methyl Ether Concentration: 18.5894 ug/L

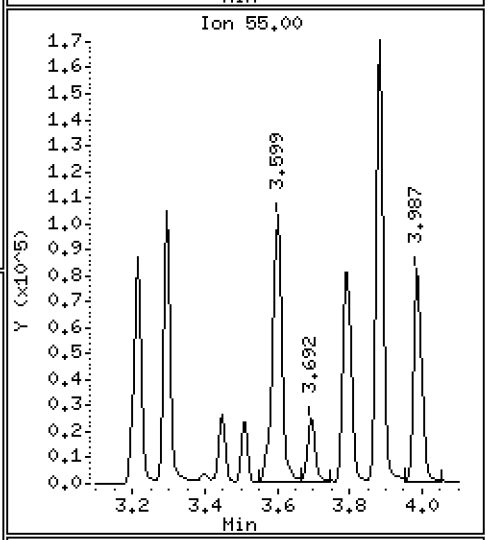


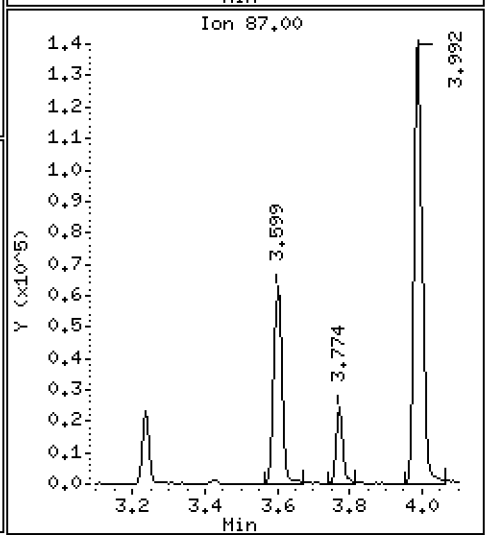












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 62

Date : 25-OCT-2016 03:26

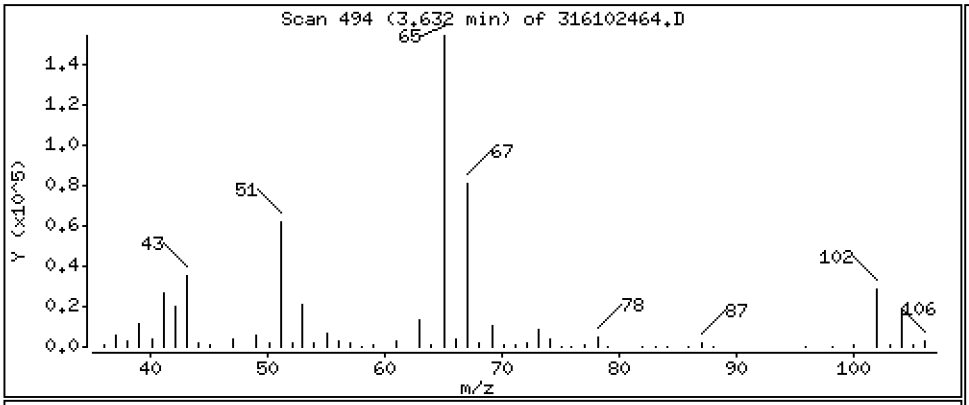
Client ID: LCS for HBN 174041 Instrument: ms03.i

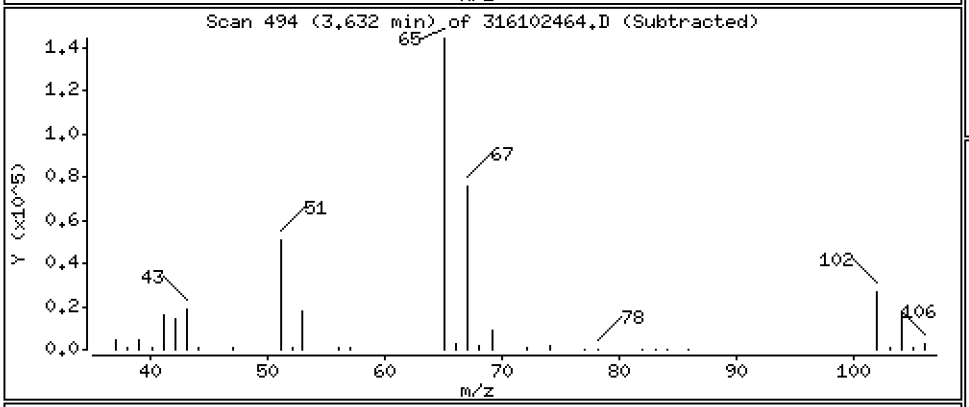
Sample Info: 2428716;;1;3;;LCS;1;

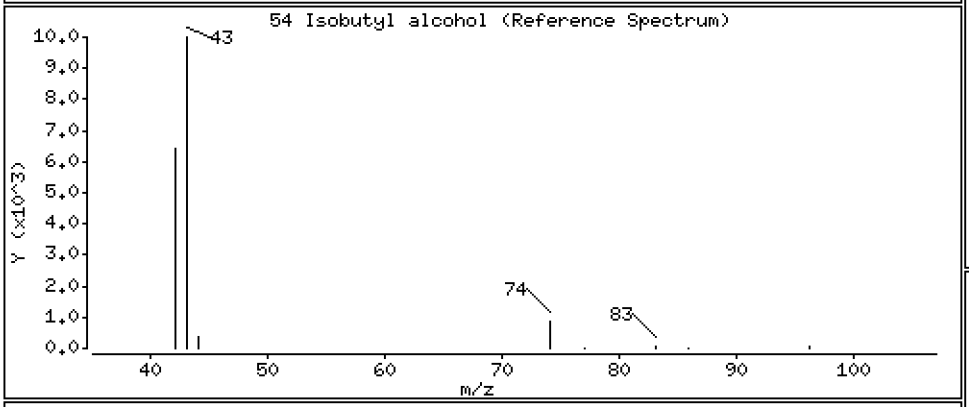
Purge Volume: 5.0 Operator: CJG

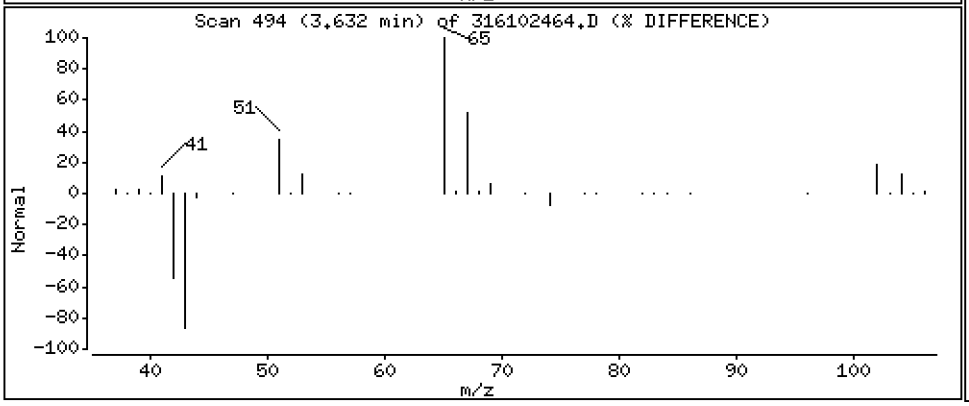
Column phase: DB-VRX Column diameter: 0.25

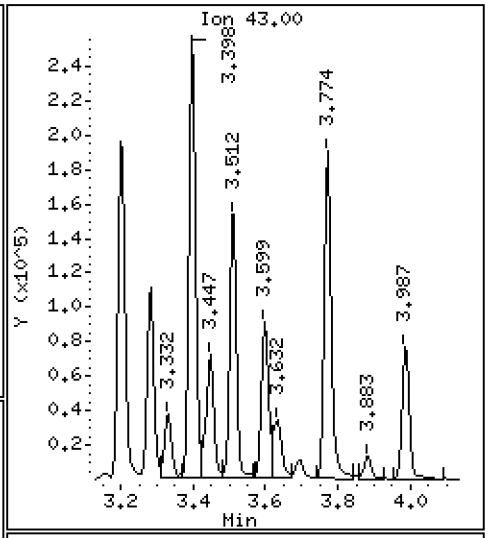
54 Isobutyl alcohol Concentration: 277.434 ug/L

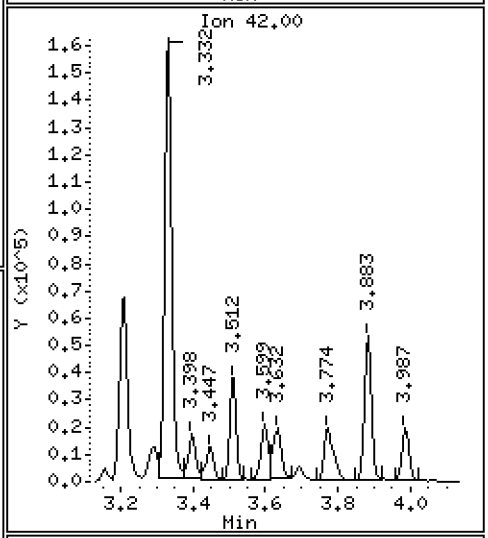


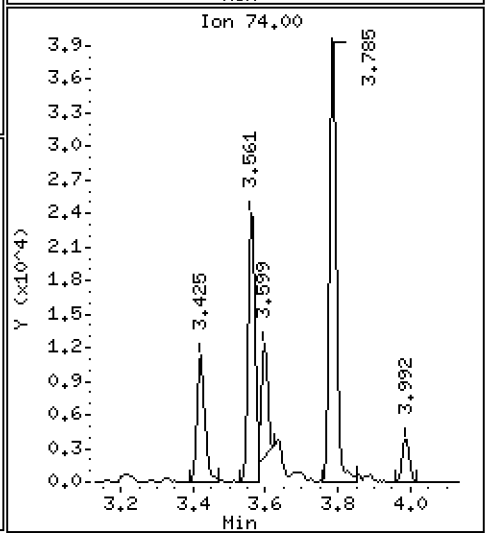












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 63

Date : 25-OCT-2016 03:26

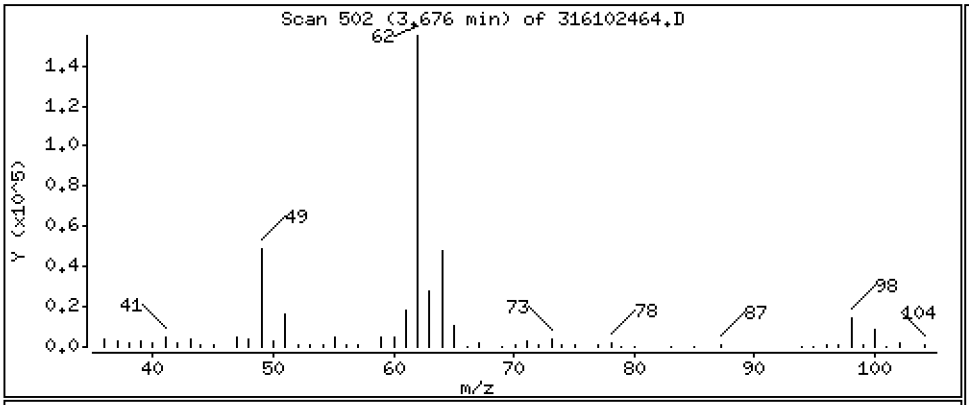
Client ID: LCS for HBN 174041 Instrument: ms03.i

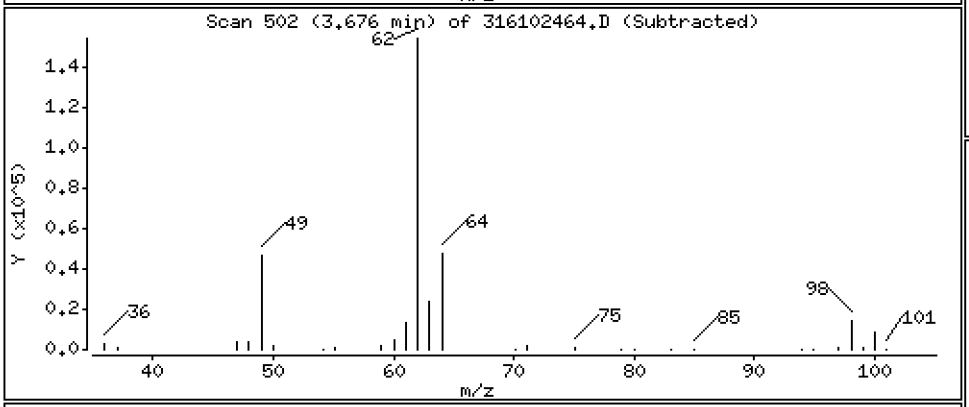
Sample Info: 2428716;;1;3;;LCS;1;

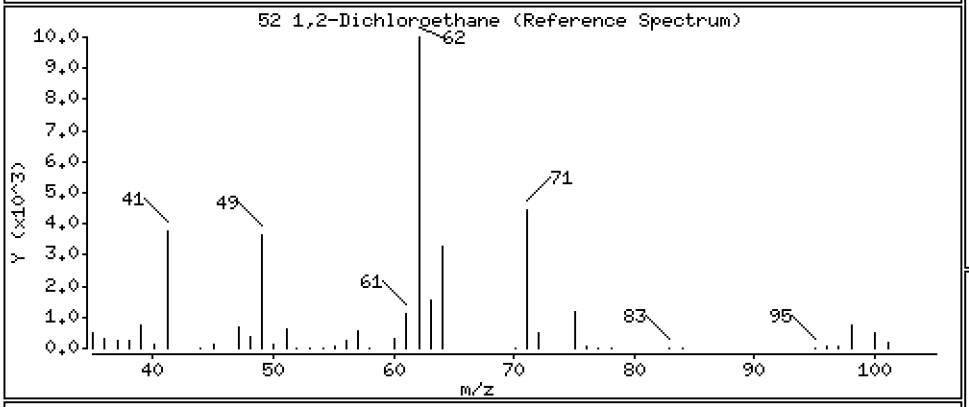
Purge Volume: 5.0 Operator: CJG

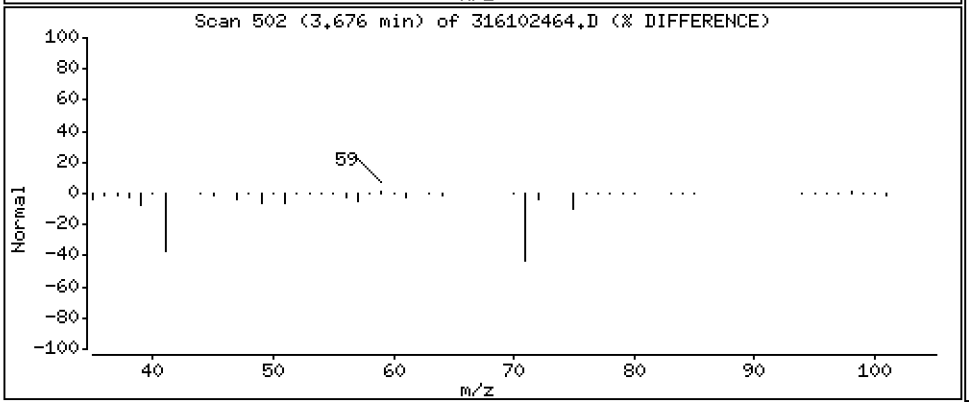
Column phase: DB-VRX Column diameter: 0.25

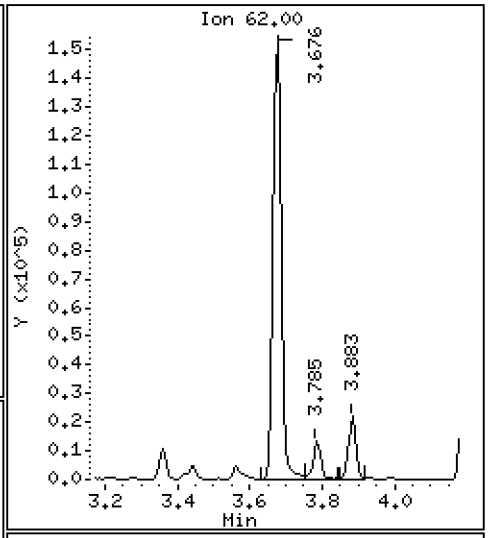
52 1,2-Dichloroethane Concentration: 18.3573 ug/L

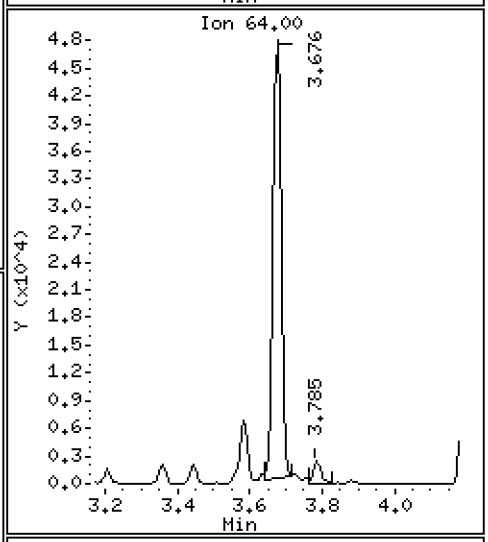


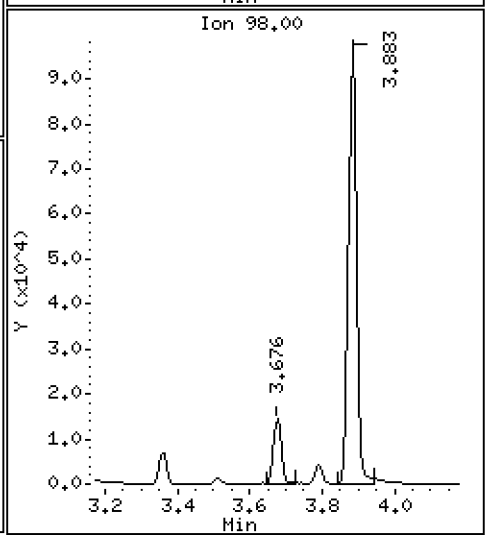












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 64

Date : 25-OCT-2016 03:26

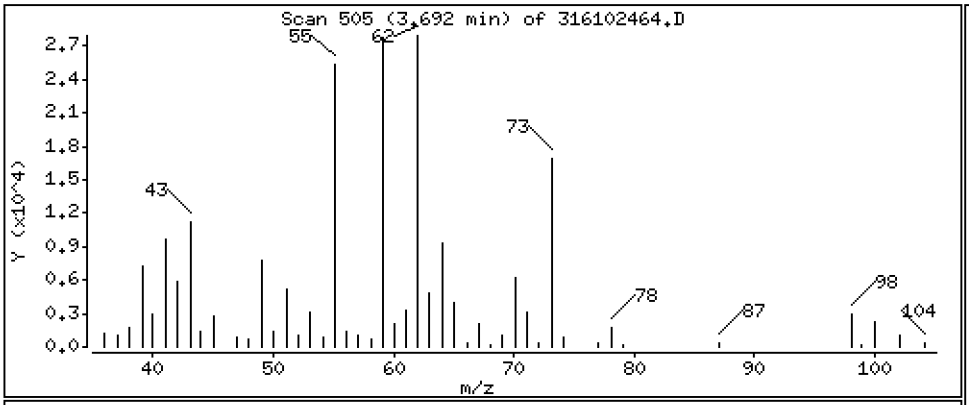
Client ID: LCS for HBN 174041 Instrument: ms03.i

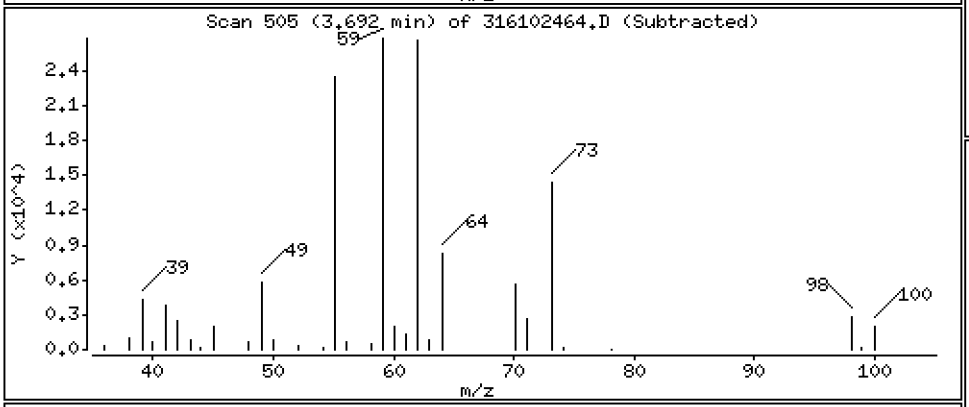
Sample Info: 2428716;;1;3;;LCS;1;

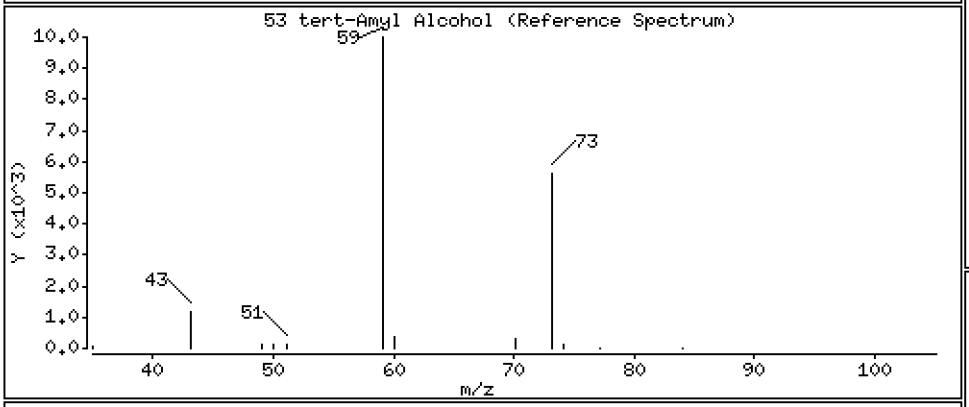
Purge Volume: 5.0 Operator: CJG

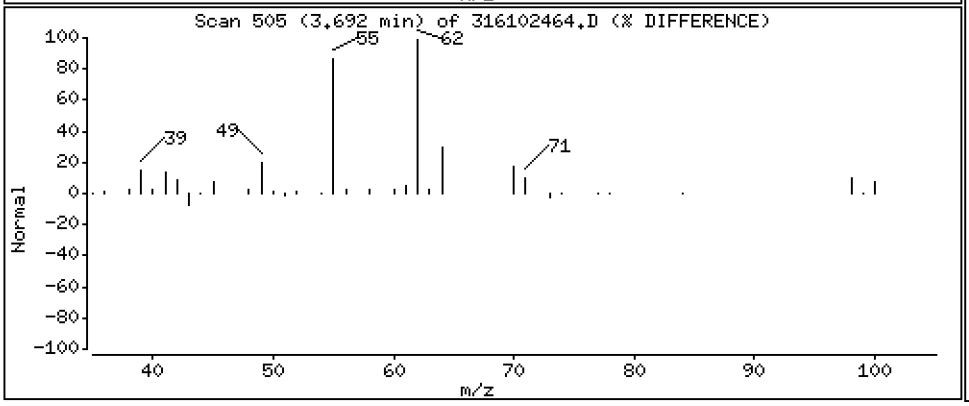
Column phase: DB-VRX Column diameter: 0.25

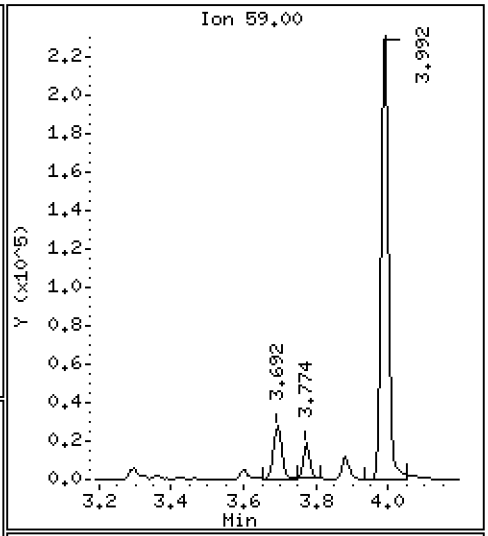
53 tert-Amyl Alcohol Concentration: 99.8941 ug/L

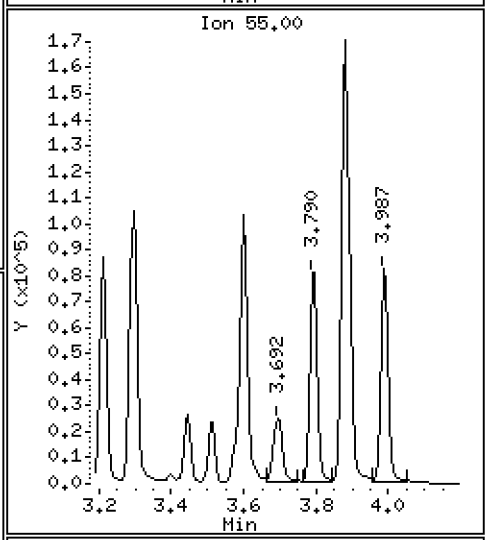


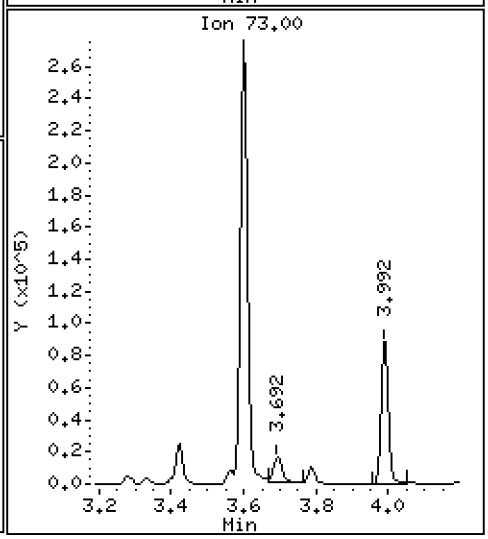












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 65

Date : 25-OCT-2016 03:26

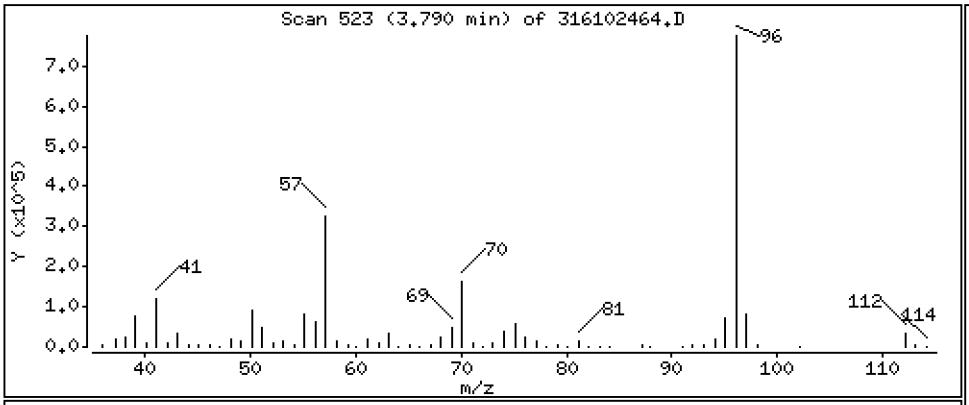
Client ID: LCS for HBN 174041 Instrument: ms03.i

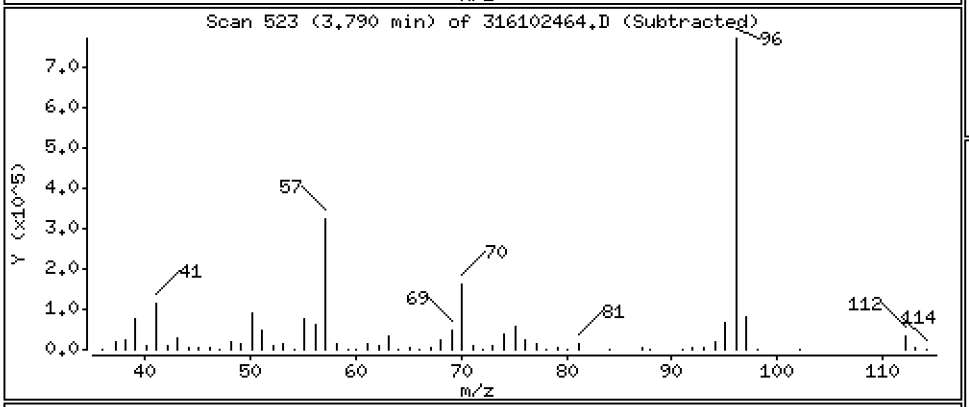
Sample Info: 2428716;;1;3;;LCS;1;

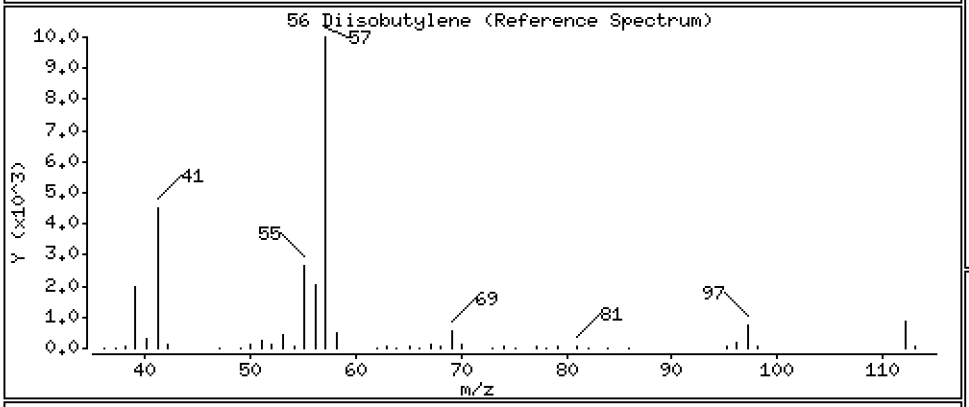
Purge Volume: 5.0 Operator: CJG

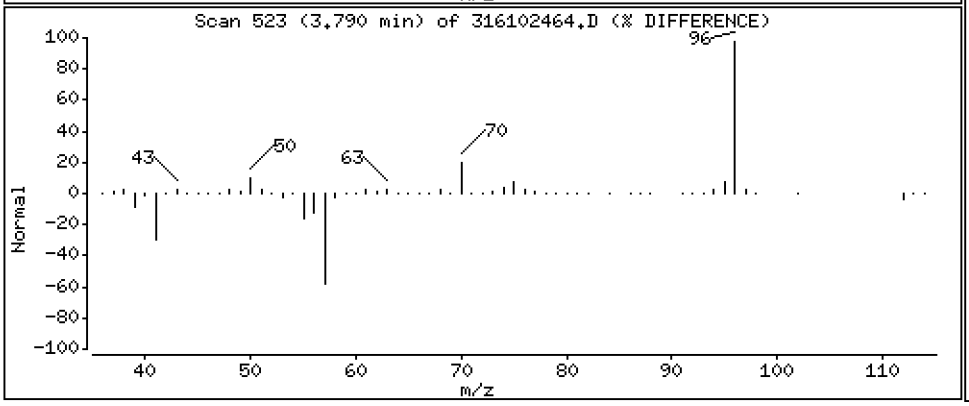
Column phase: DB-VRX Column diameter: 0.25

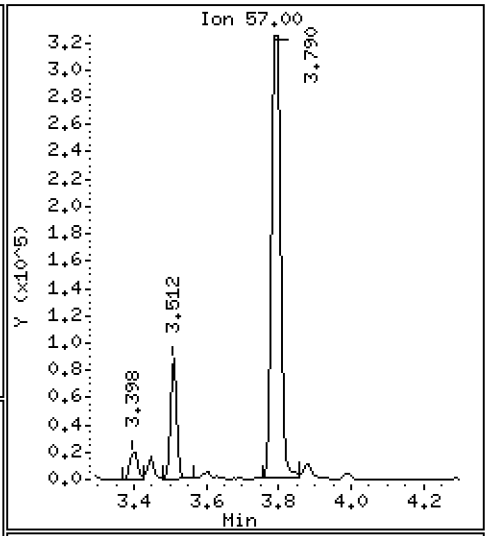
56 Diisobutylene Concentration: 22.1128 ug/L

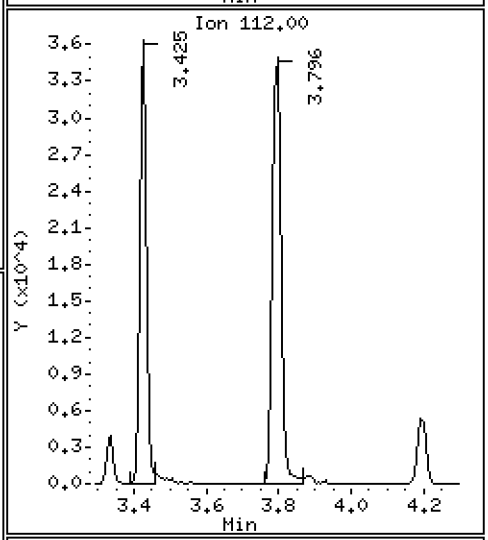


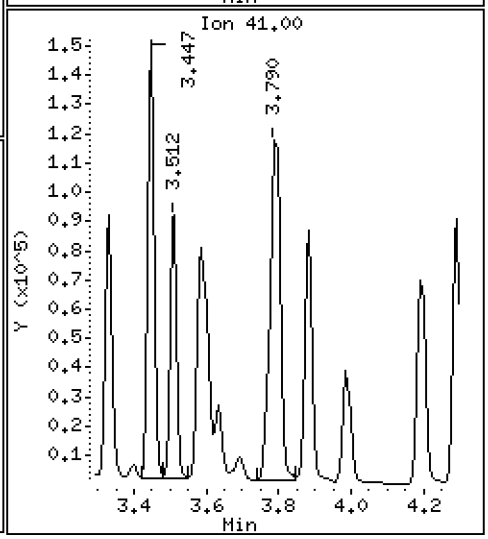












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 66

Date : 25-OCT-2016 03:26

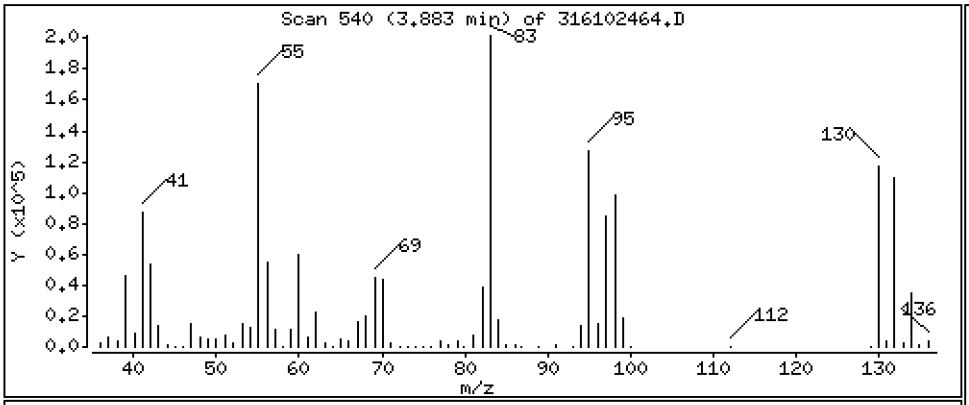
Client ID: LCS for HBN 174041 Instrument: ms03.i

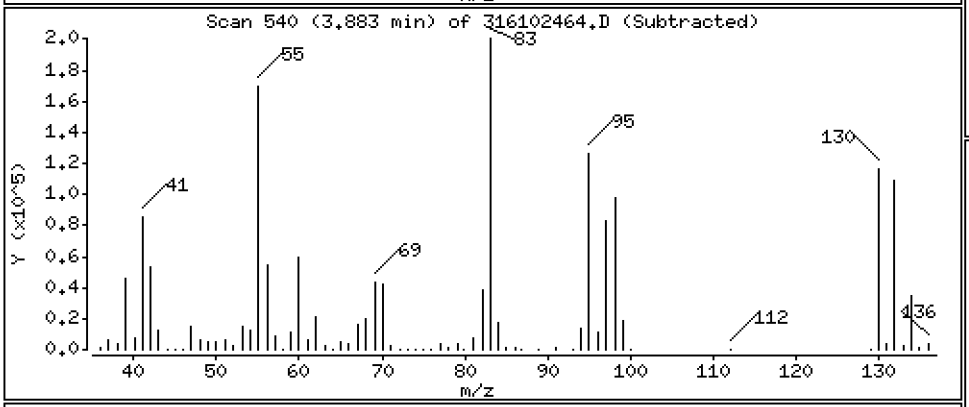
Sample Info: 2428716;;1;3;;LCS;1;

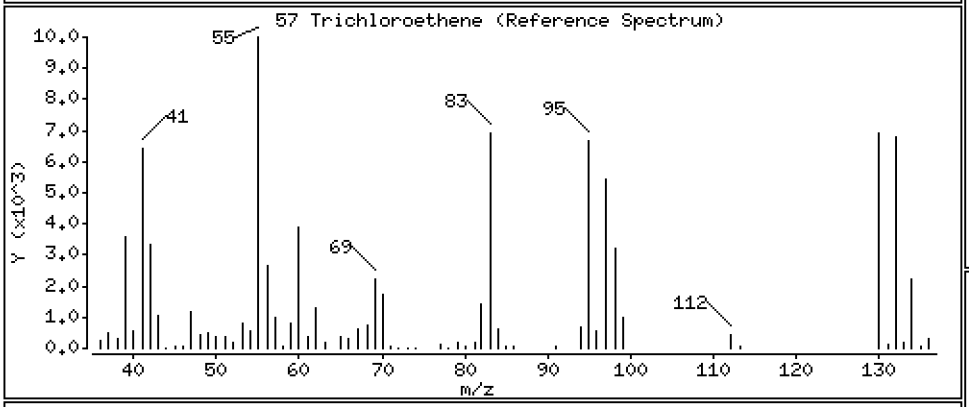
Purge Volume: 5.0 Operator: CJG

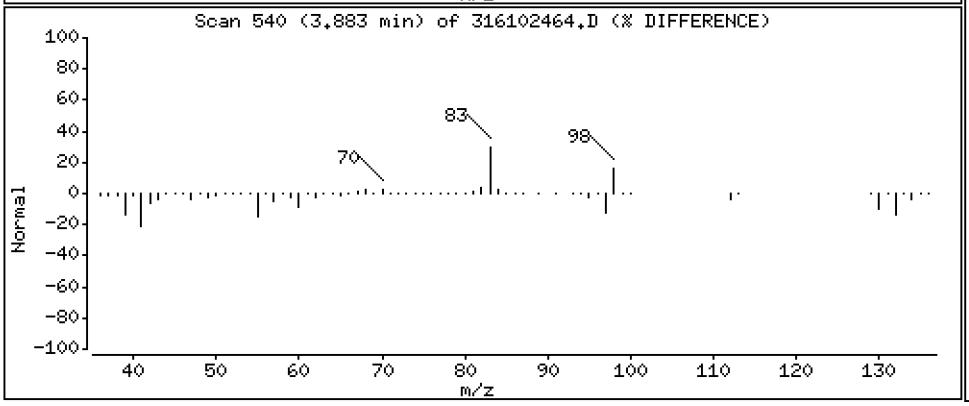
Column phase: DB-VRX Column diameter: 0.25

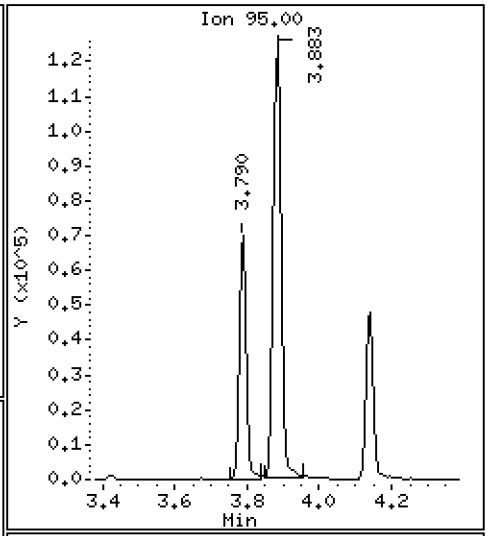
57 Trichloroethene Concentration: 17.6881 ug/L

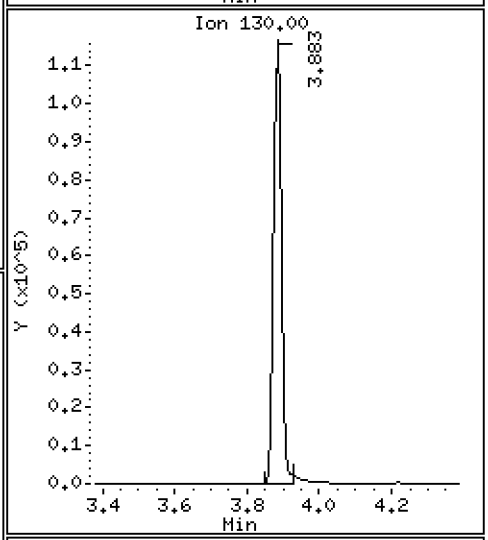


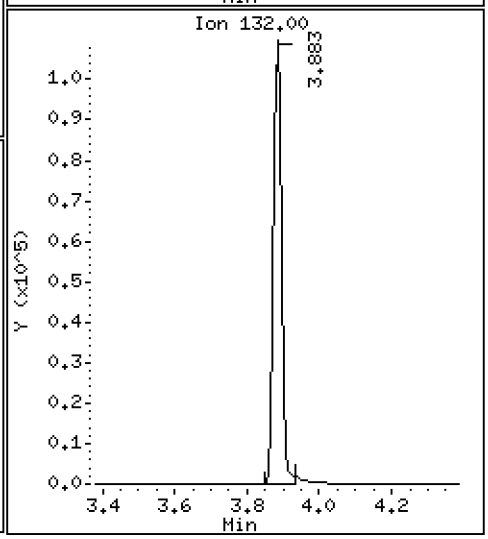












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 67

Date : 25-OCT-2016 03:26

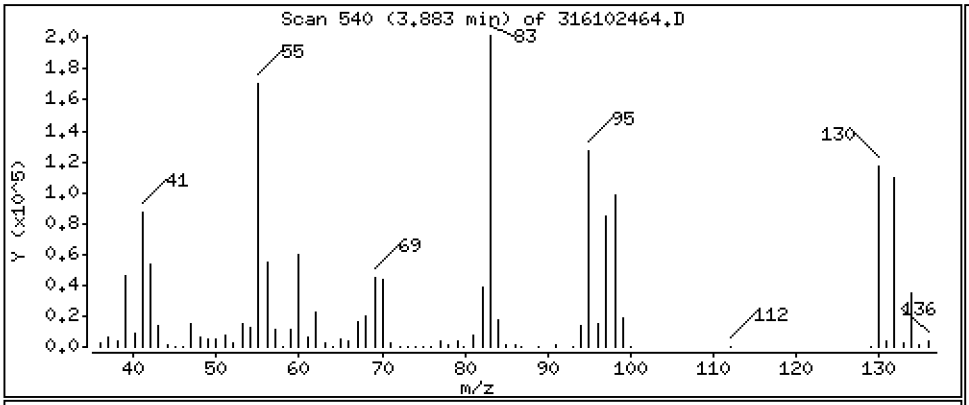
Client ID: LCS for HBN 174041 Instrument: ms03.i

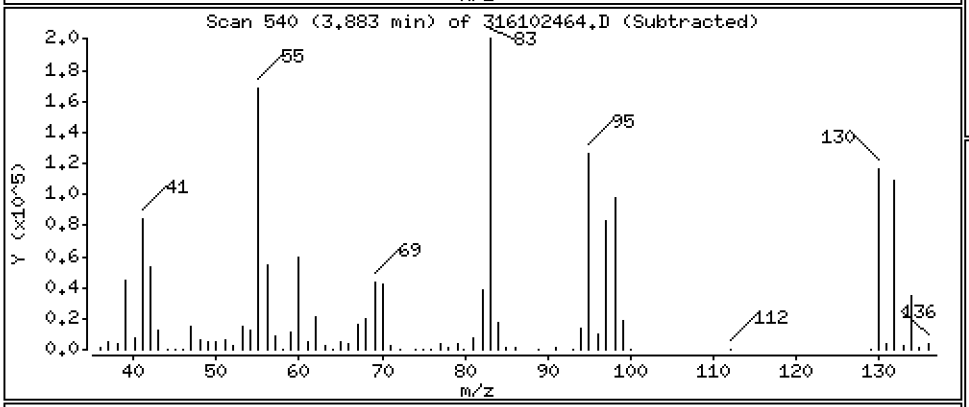
Sample Info: 2428716;;1;3;;LCS;1;

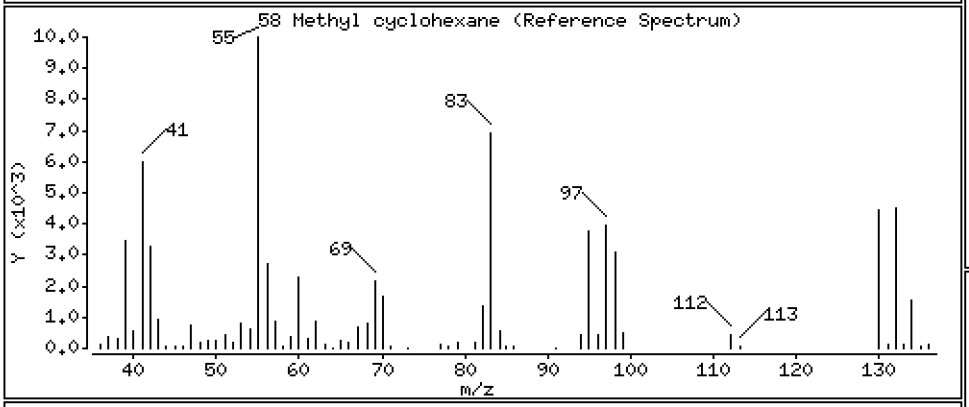
Purge Volume: 5.0 Operator: CJG

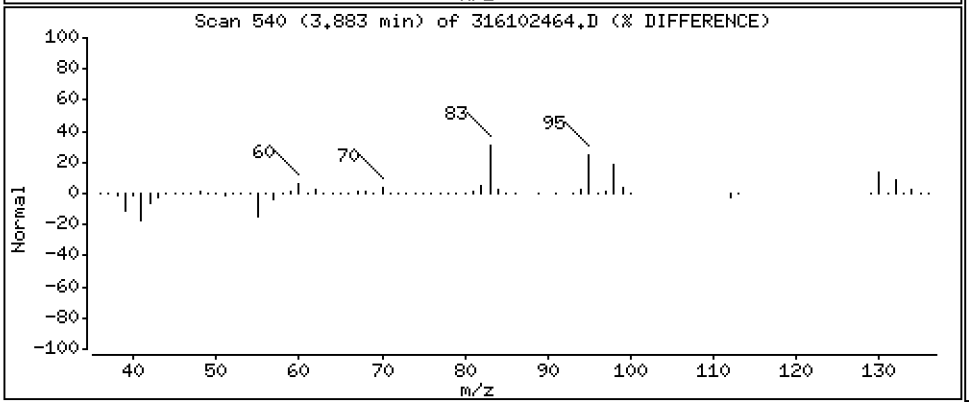
Column phase: DB-VRX Column diameter: 0.25

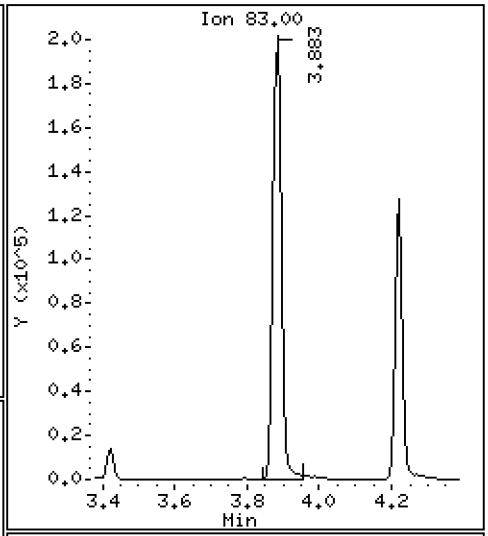
58 Methyl cyclohexane Concentration: 18.8439 ug/L

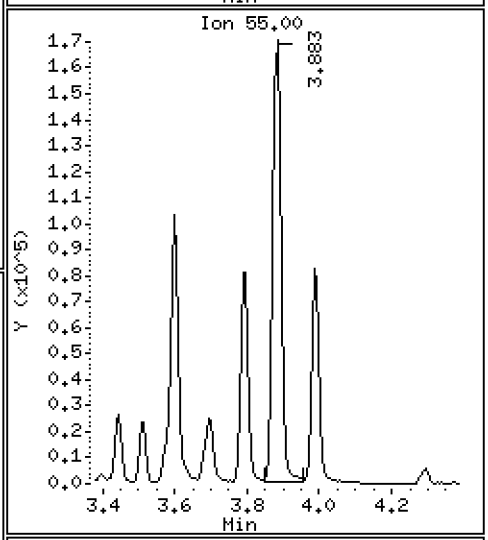


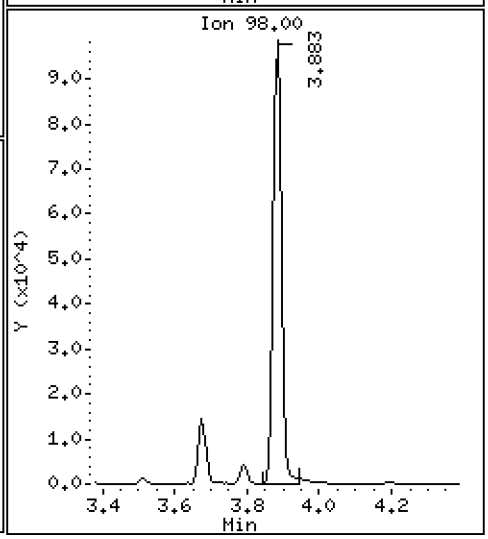












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 68

Date : 25-OCT-2016 03:26

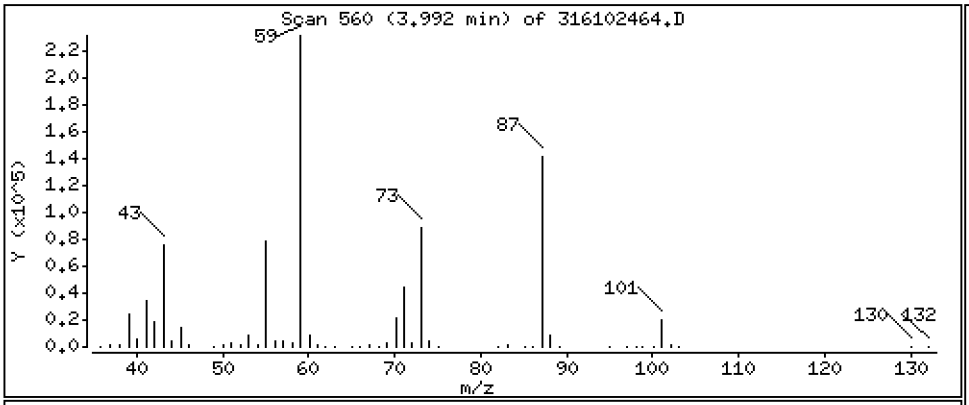
Client ID: LCS for HBN 174041 Instrument: ms03.i

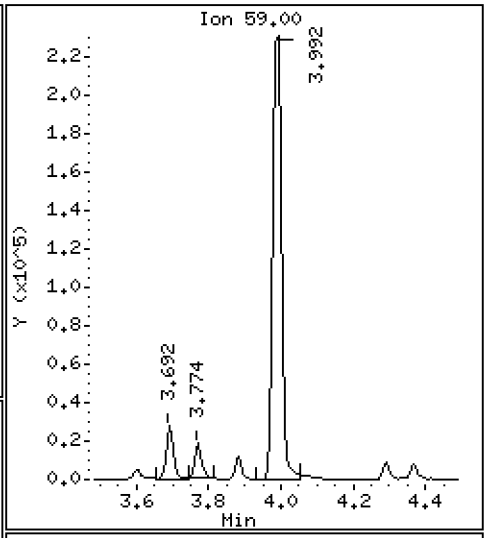
Sample Info: 2428716;;1;3;;LCS;1;

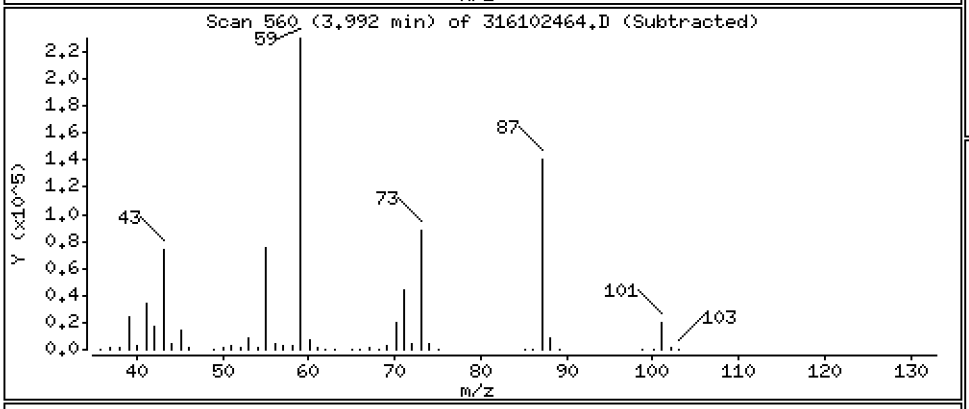
Purge Volume: 5.0 Operator: CJG

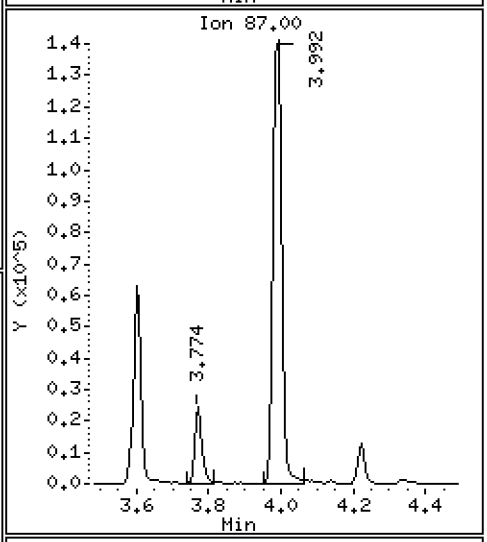
Column phase: DB-VRX Column diameter: 0.25

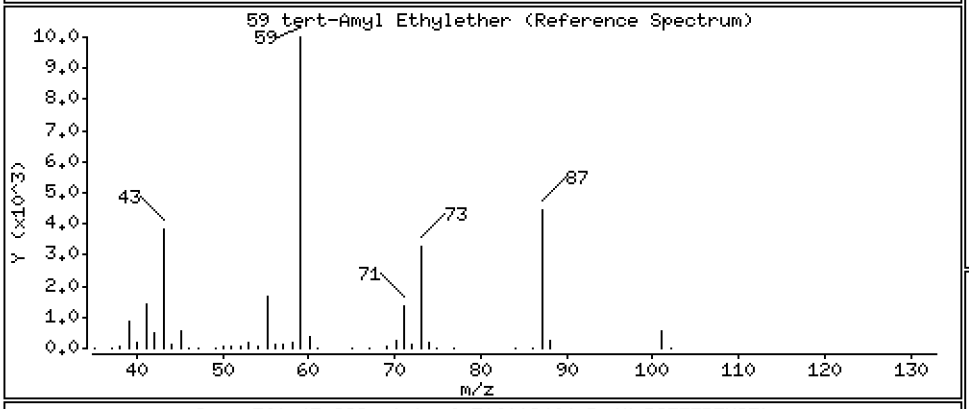
59 tert-Amyl Ethylether Concentration: 18.6427 ug/L

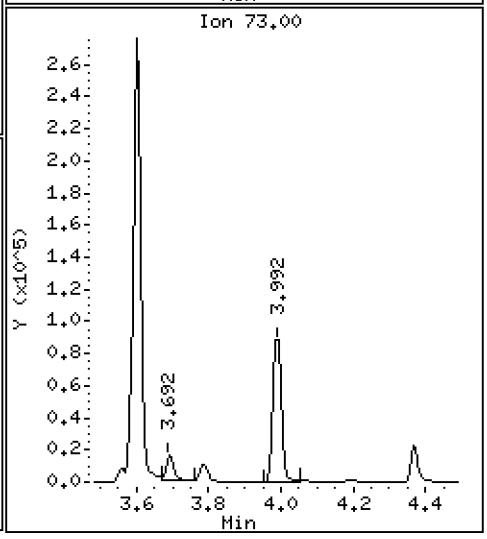


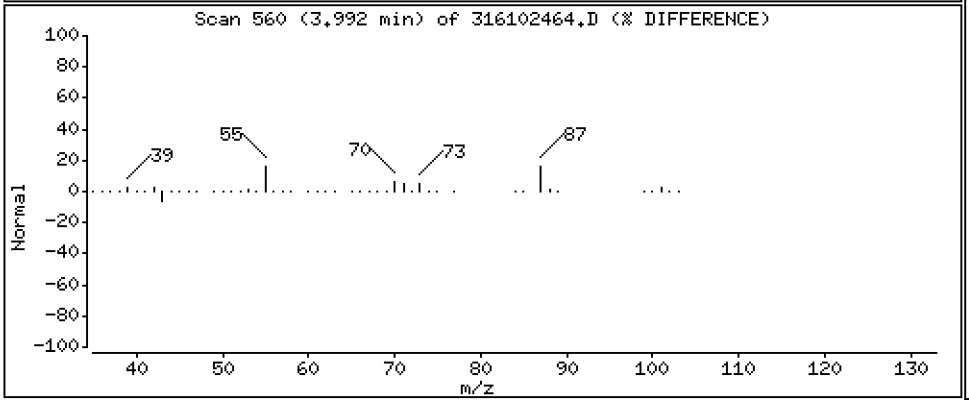












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 69

Date : 25-OCT-2016 03:26

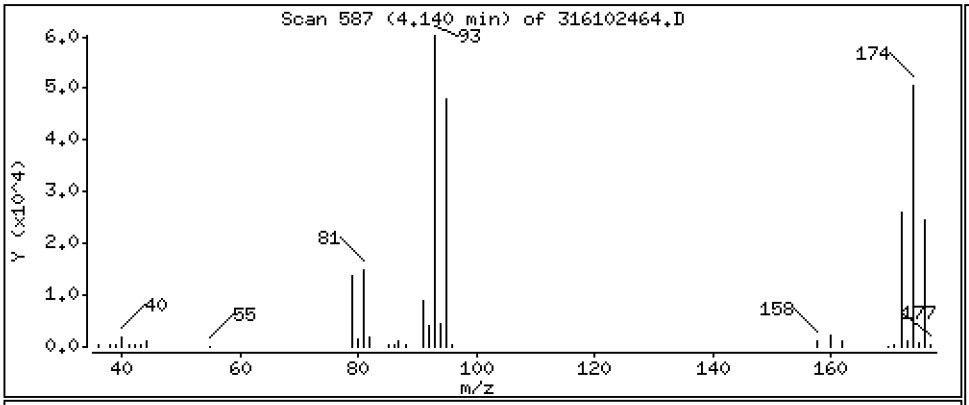
Client ID: LCS for HBN 174041 Instrument: ms03.i

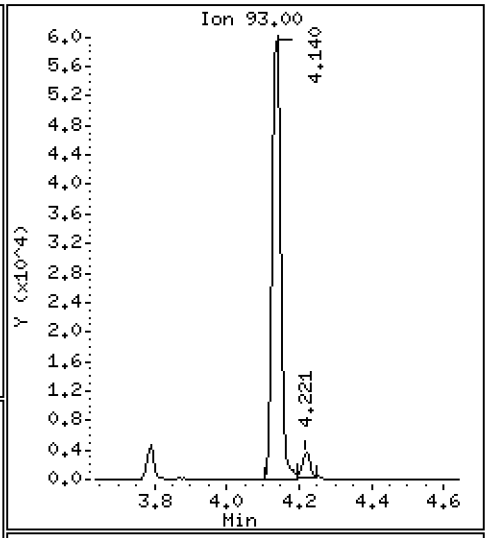
Sample Info: 2428716;;1;3;;LCS;1;

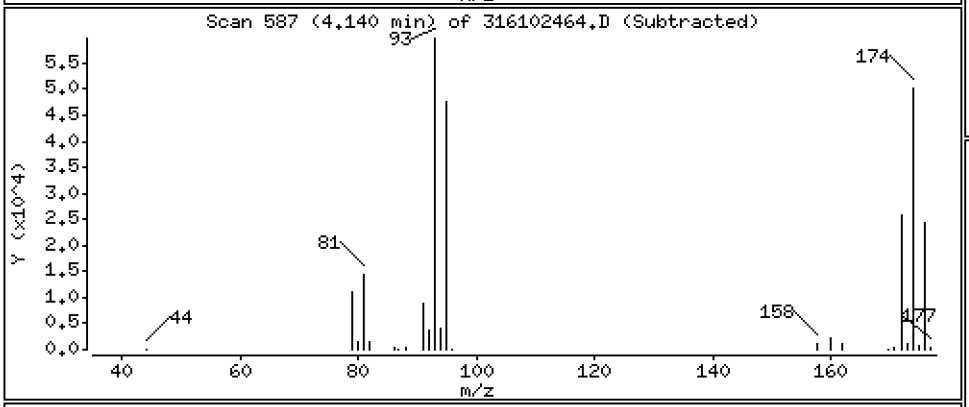
Purge Volume: 5.0 Operator: CJG

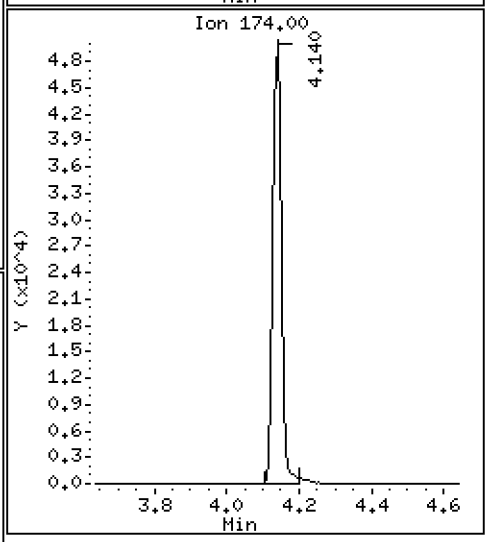
Column phase: DB-VRX Column diameter: 0.25

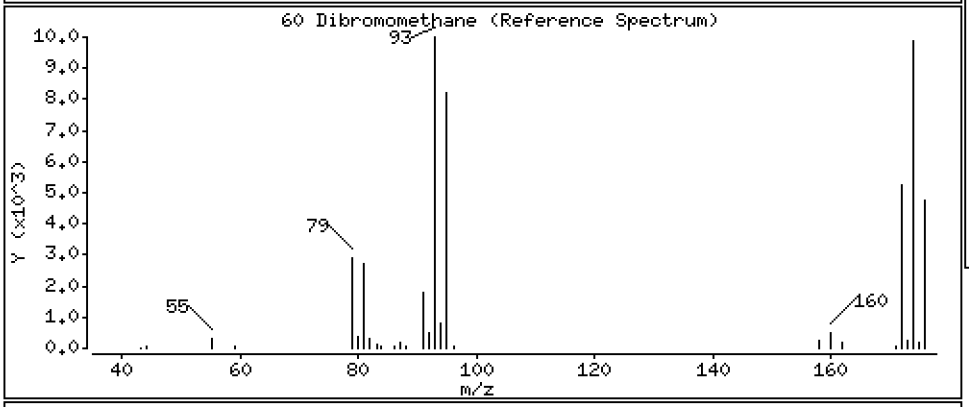
60 Dibromomethane Concentration: 17.7619 ug/L

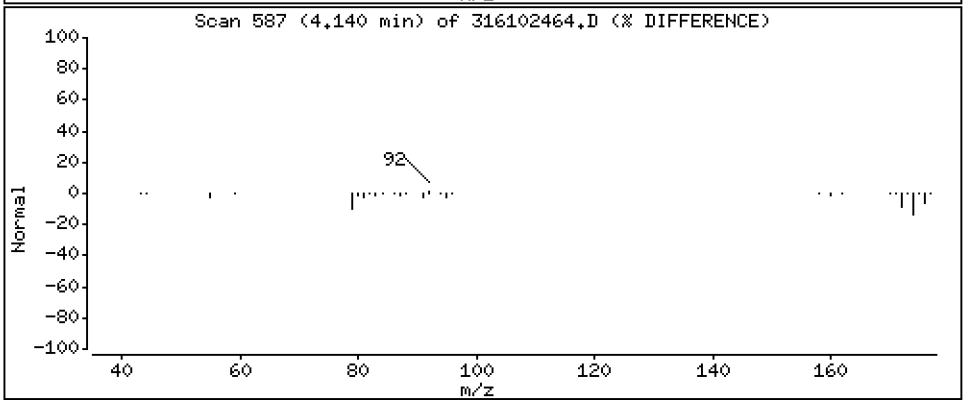












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 70

Date : 25-OCT-2016 03:26

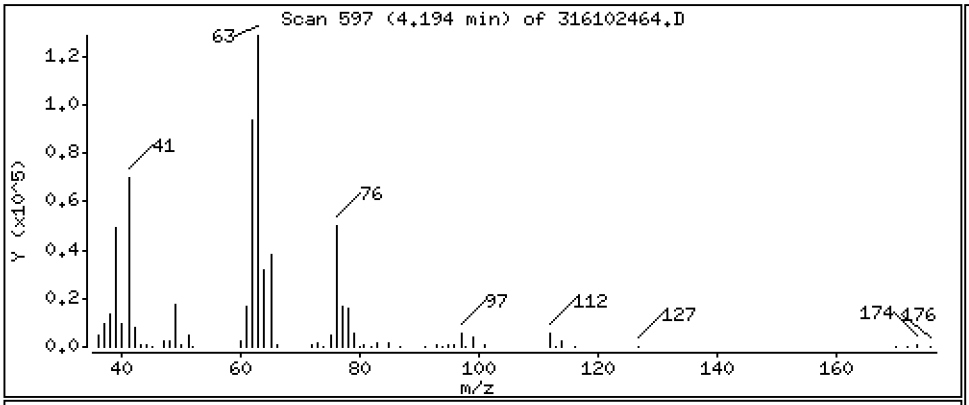
Client ID: LCS for HBN 174041 Instrument: ms03.i

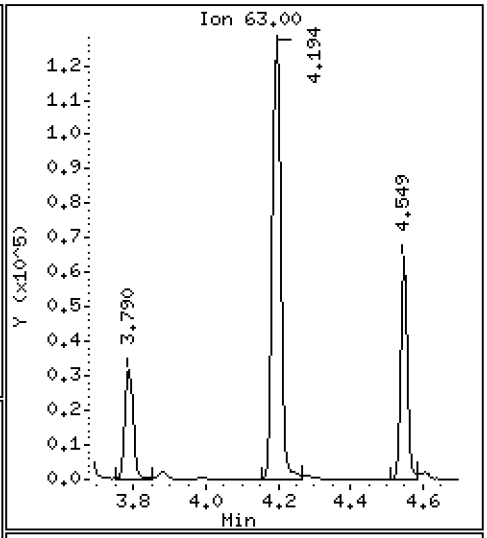
Sample Info: 2428716;;1;3;;LCS;1;

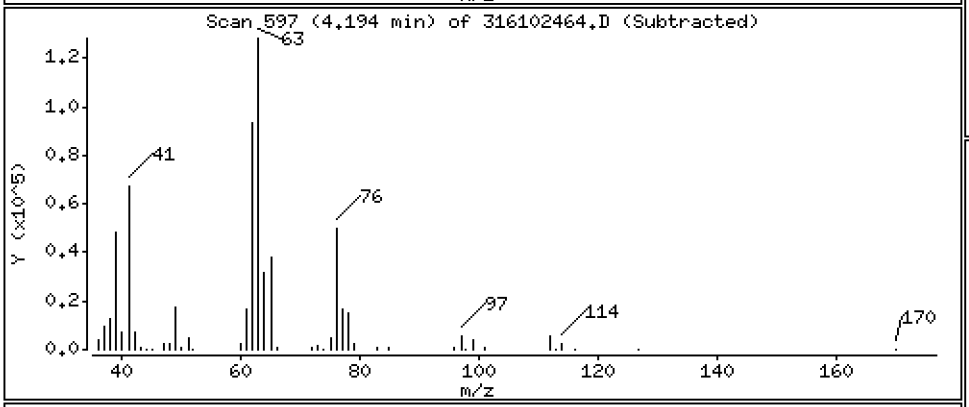
Purge Volume: 5.0 Operator: CJG

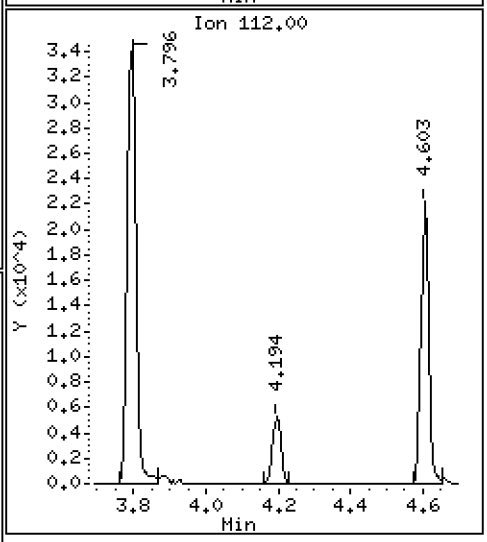
Column phase: DB-VRX Column diameter: 0.25

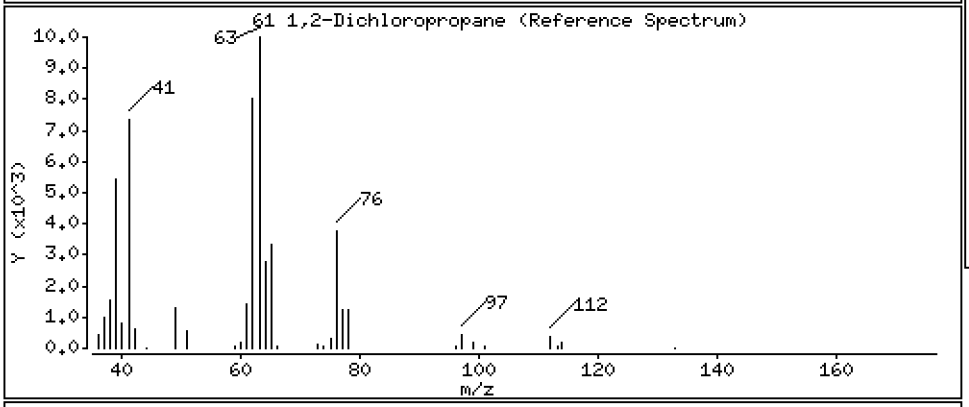
61 1,2-Dichloropropane Concentration: 18.9450 ug/L

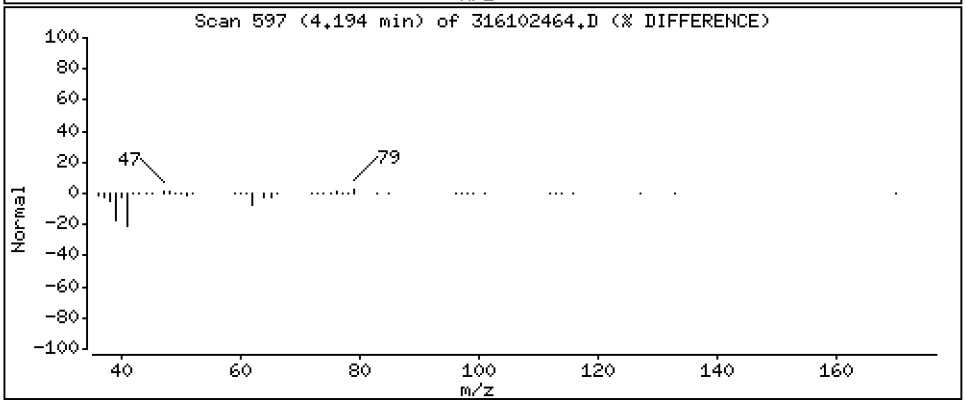












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 71

Date : 25-OCT-2016 03:26

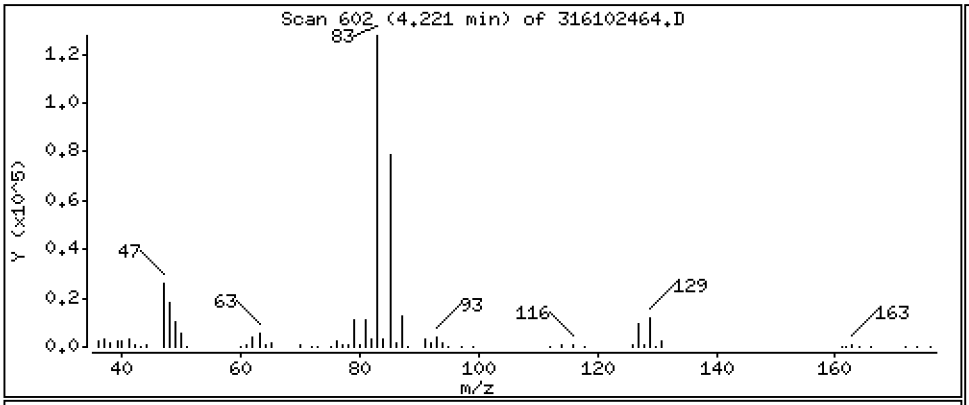
Client ID: LCS for HBN 174041 Instrument: ms03.i

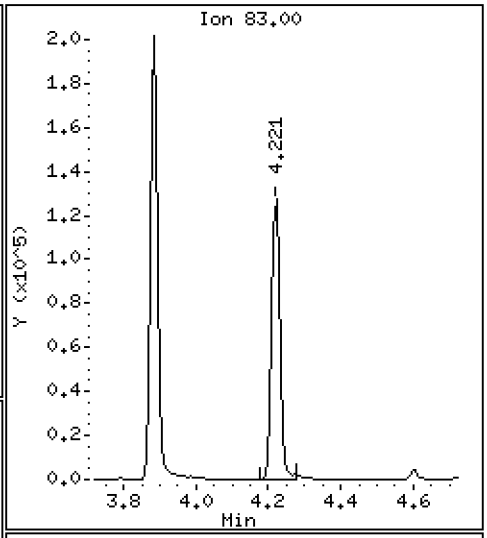
Sample Info: 2428716;;1;3;;LCS;1;

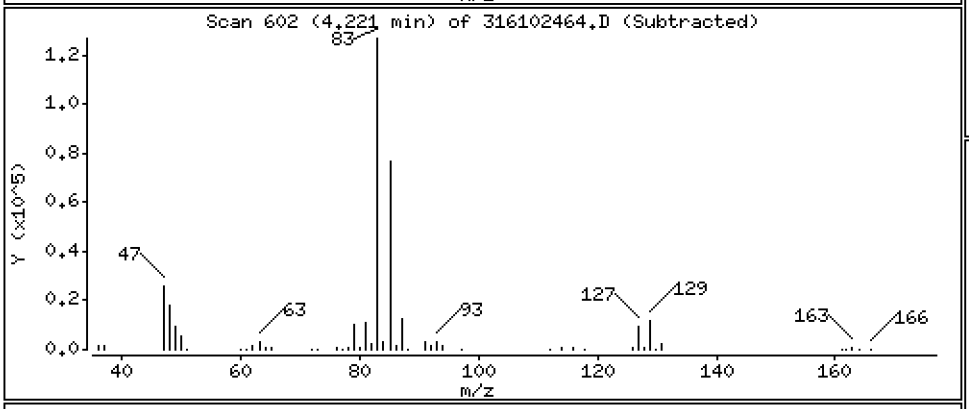
Purge Volume: 5.0 Operator: CJG

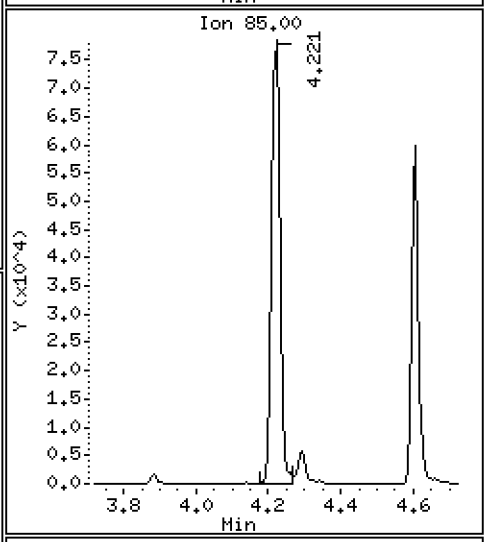
Column phase: DB-VRX Column diameter: 0.25

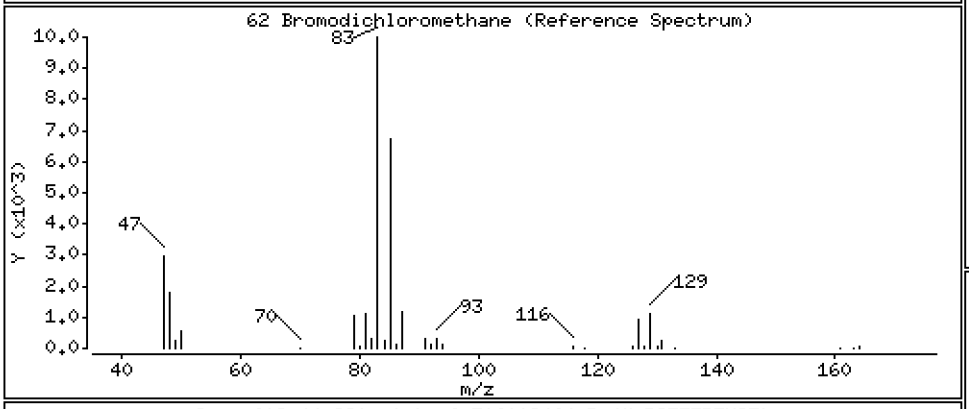
62 Bromodichloromethane Concentration: 18.5253 ug/L

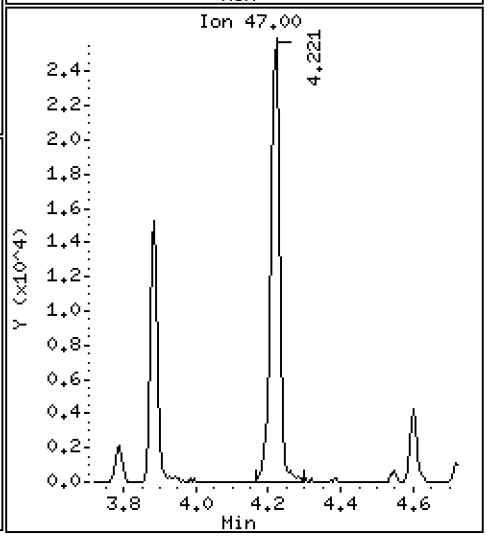


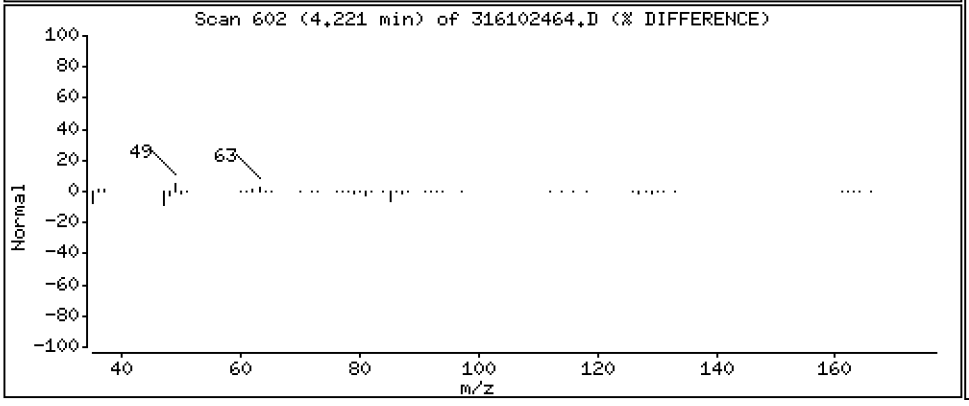












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 72

Date : 25-OCT-2016 03:26

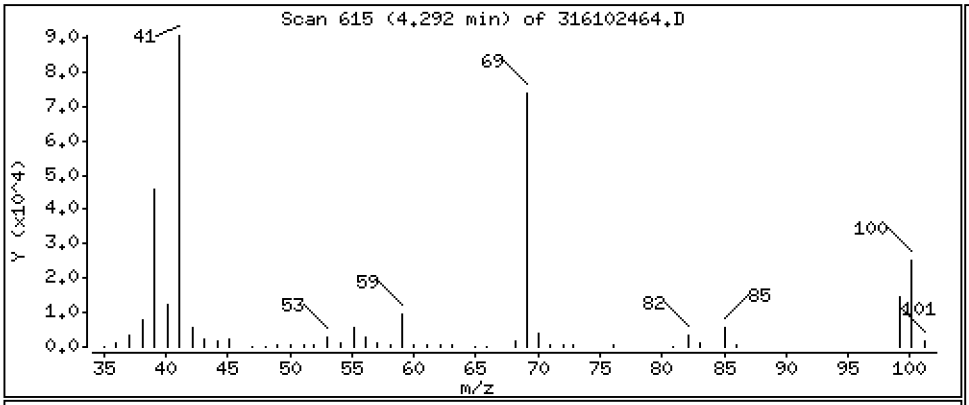
Client ID: LCS for HBN 174041 Instrument: ms03.i

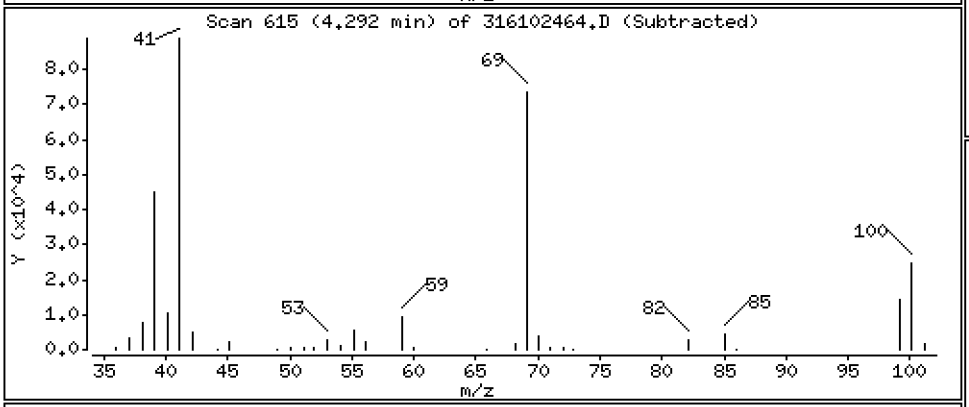
Sample Info: 2428716;;1;3;;LCS;1;

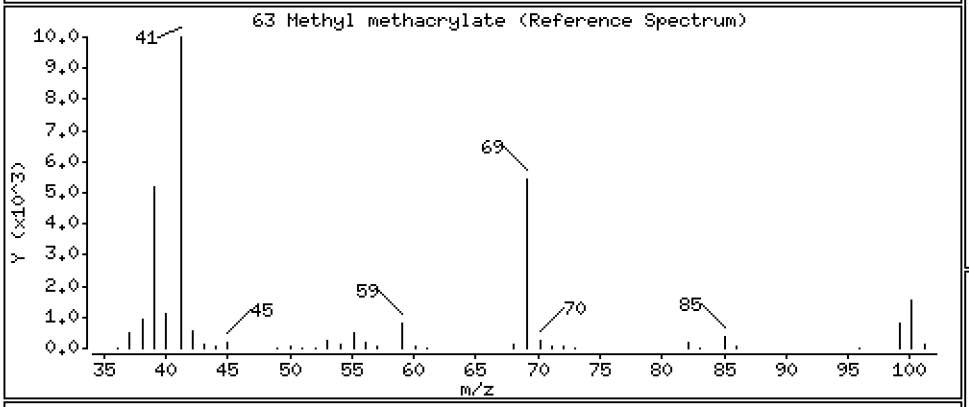
Purge Volume: 5.0 Operator: CJG

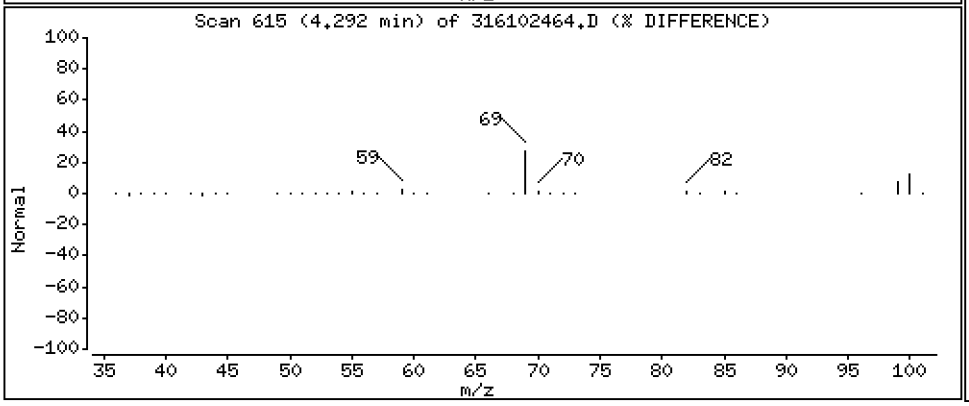
Column phase: DB-VRX Column diameter: 0.25

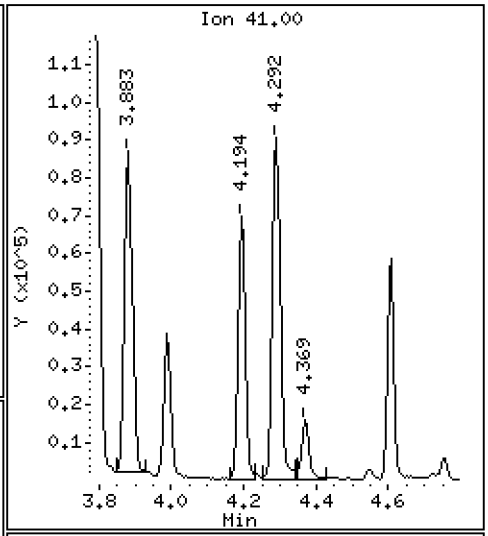
63 Methyl methacrylate Concentration: 18.7021 ug/L

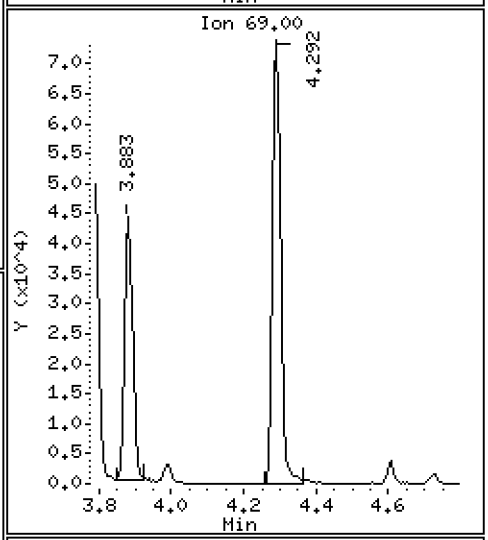


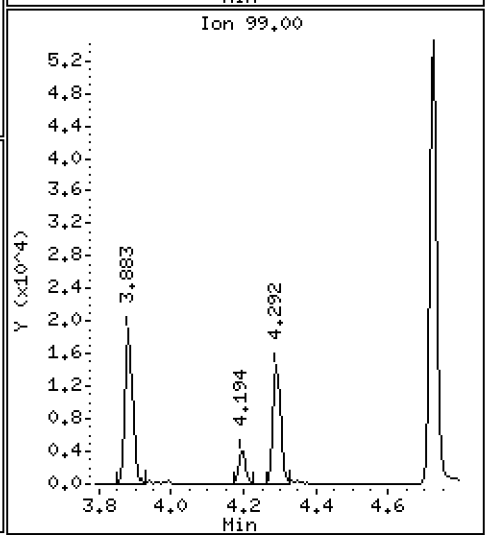












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 73

Date : 25-OCT-2016 03:26

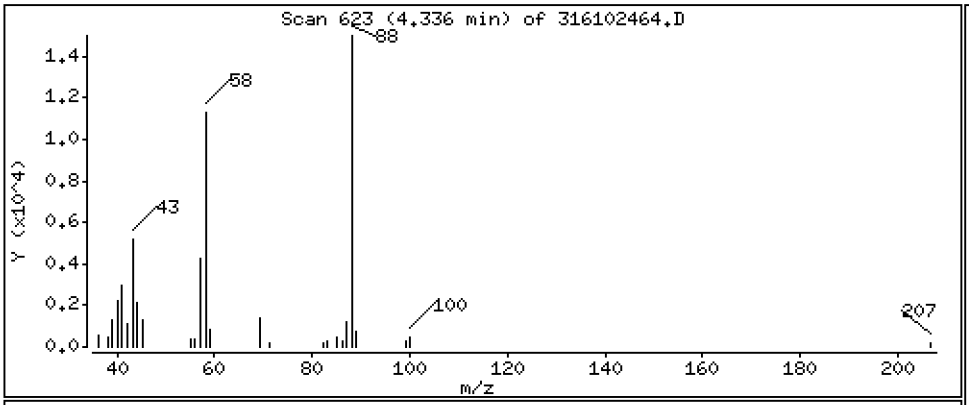
Client ID: LCS for HBN 174041 Instrument: ms03.i

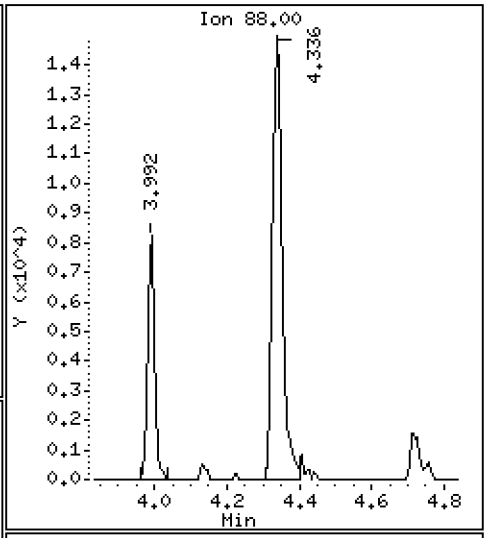
Sample Info: 2428716;;1;3;;LCS;1;

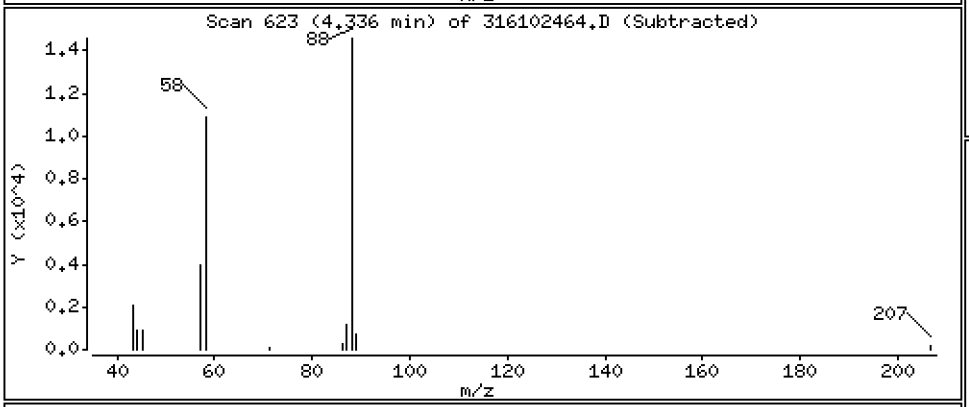
Purge Volume: 5.0 Operator: CJG

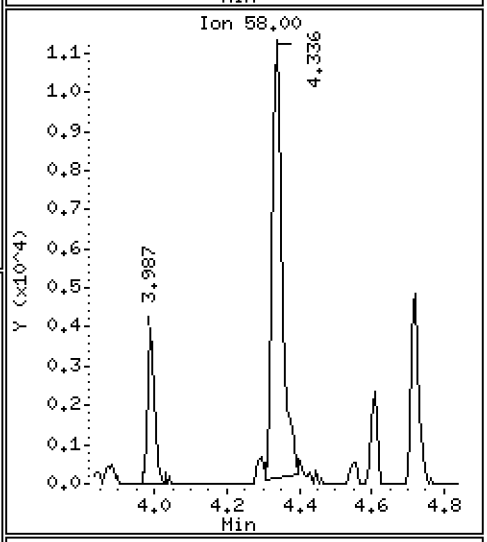
Column phase: DB-VRX Column diameter: 0.25

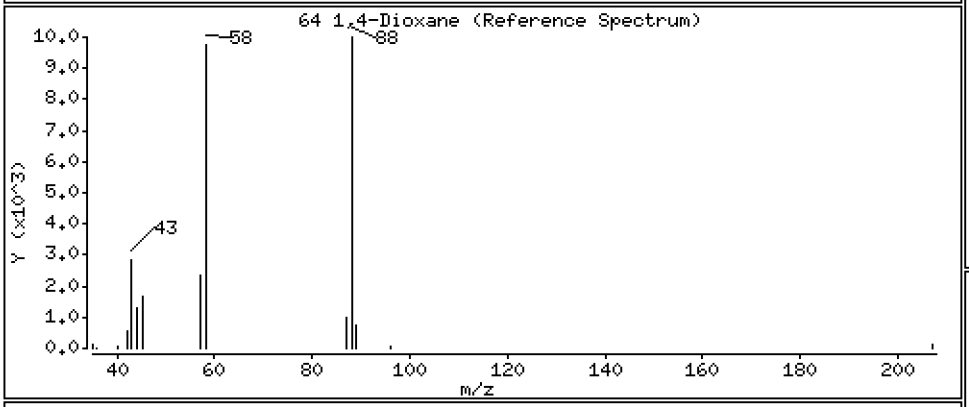
64 1,4-Dioxane Concentration: 786.828 ug/L

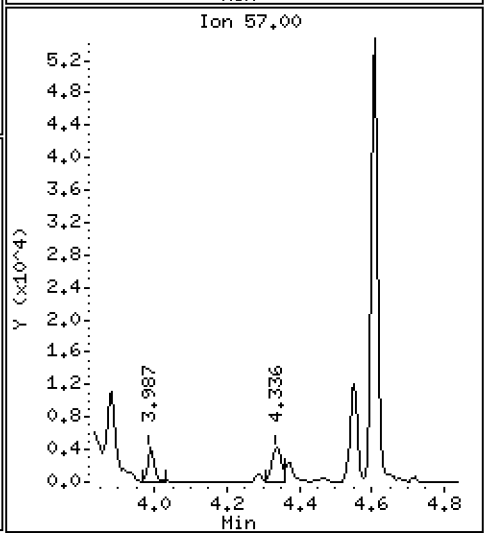


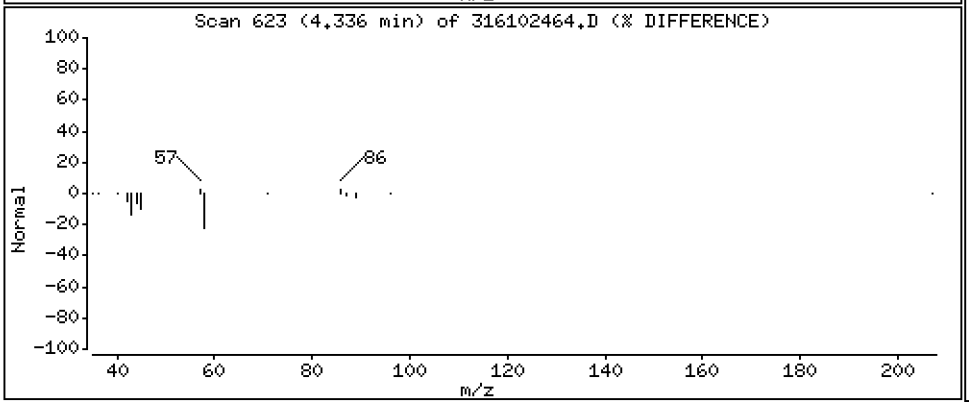












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 74

Date : 25-OCT-2016 03:26

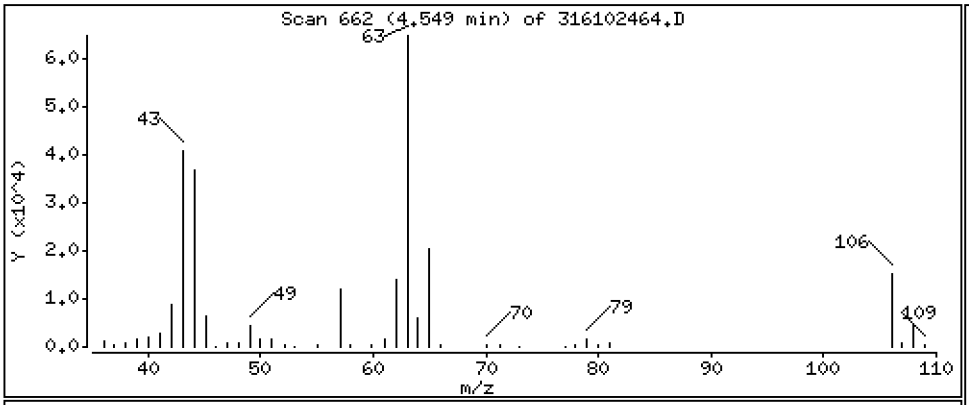
Client ID: LCS for HBN 174041 Instrument: ms03.i

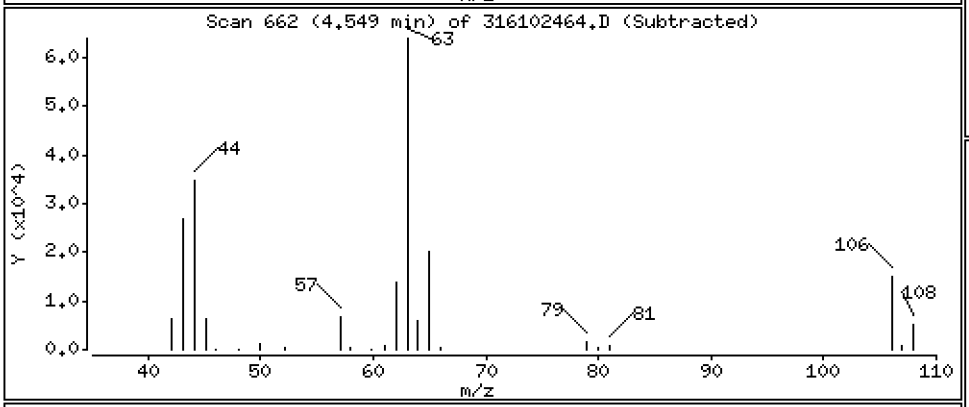
Sample Info: 2428716;;1;3;;LCS;1;

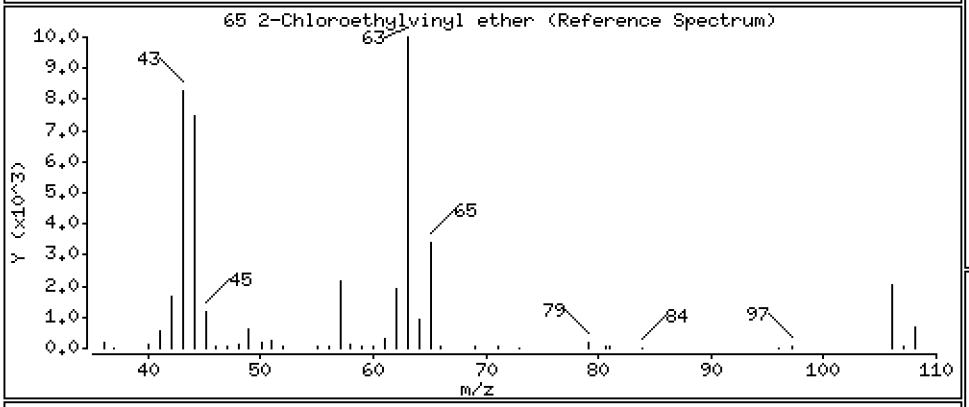
Purge Volume: 5.0 Operator: CJG

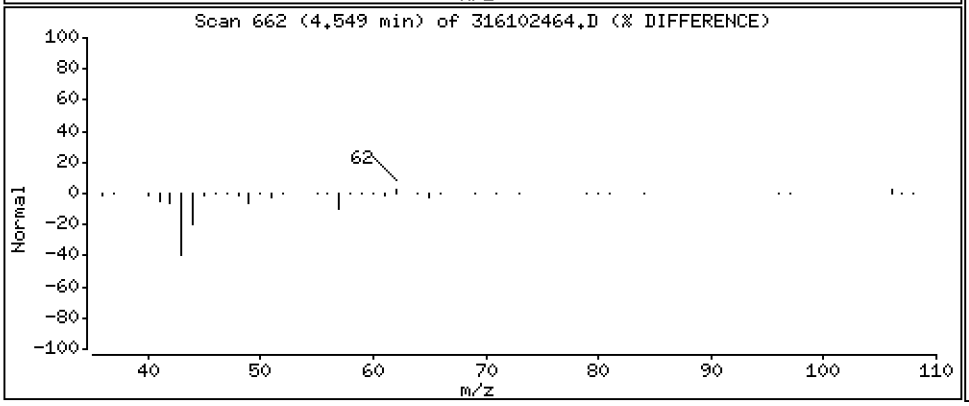
Column phase: DB-VRX Column diameter: 0.25

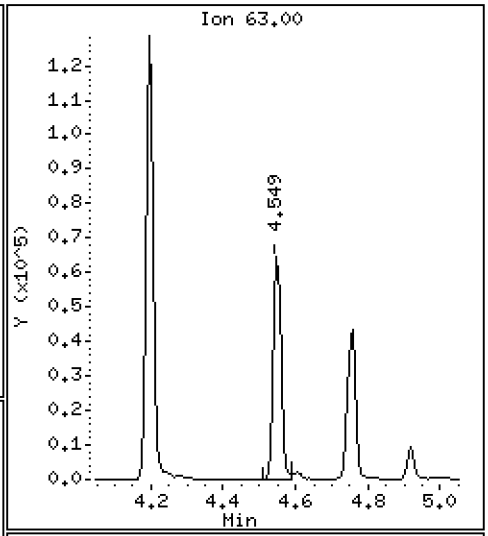
65 2-Chloroethylvinyl ether Concentration: 17.8853 ug/L

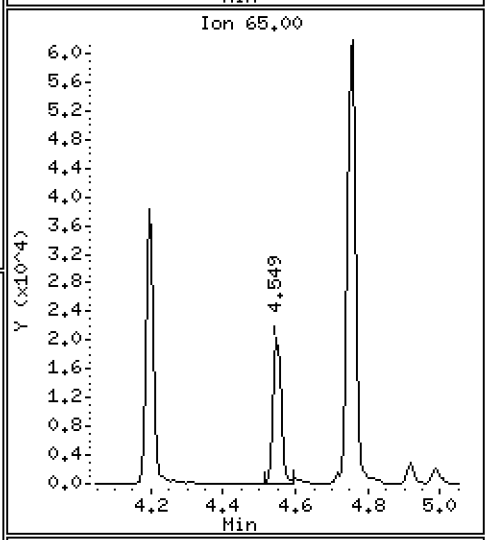


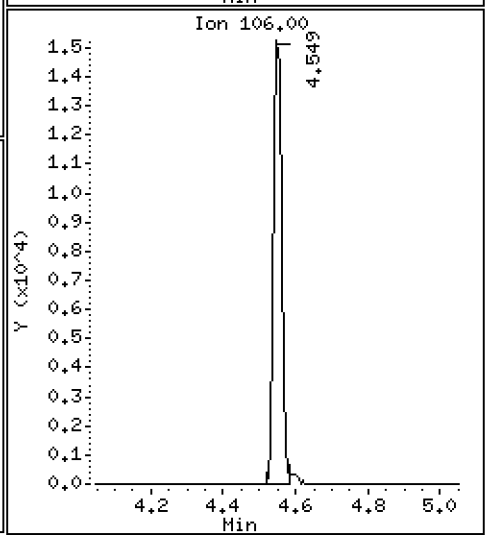












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 75

Date : 25-OCT-2016 03:26

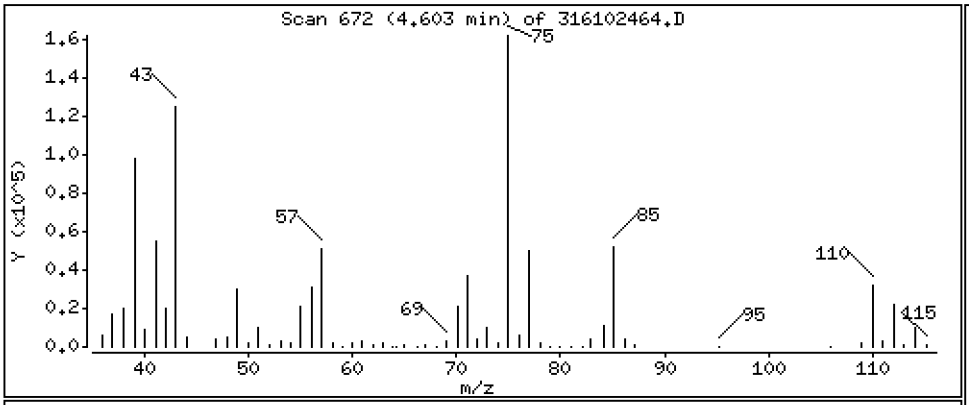
Client ID: LCS for HBN 174041 Instrument: ms03.i

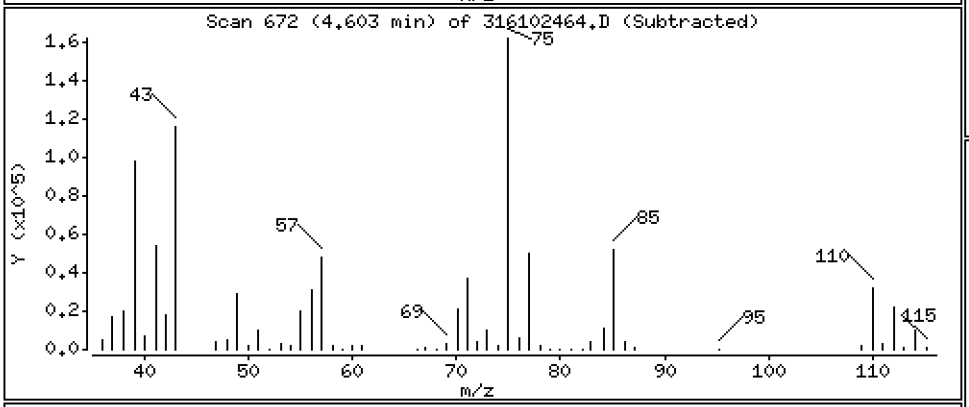
Sample Info: 2428716;;1;3;;LCS;1;

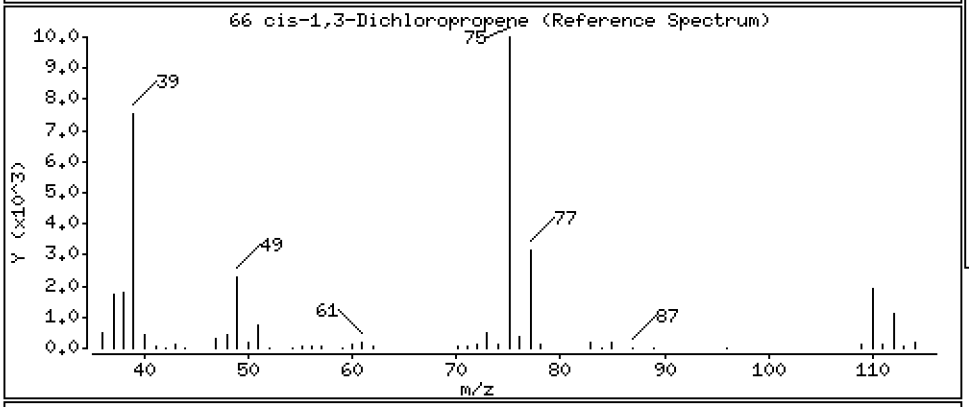
Purge Volume: 5.0 Operator: CJG

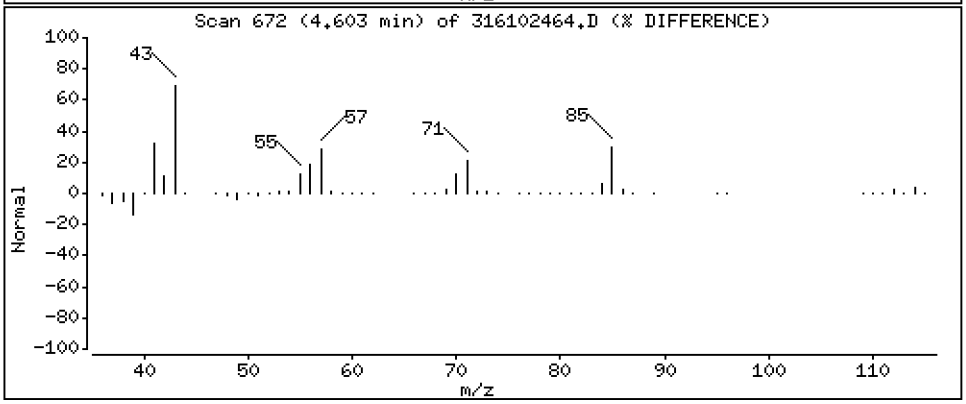
Column phase: DB-VRX Column diameter: 0.25

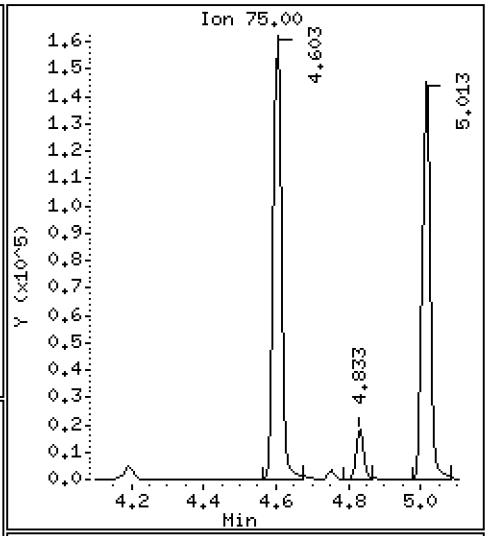
66 cis-1,3-Dichloropropene Concentration: 17.9139 ug/L

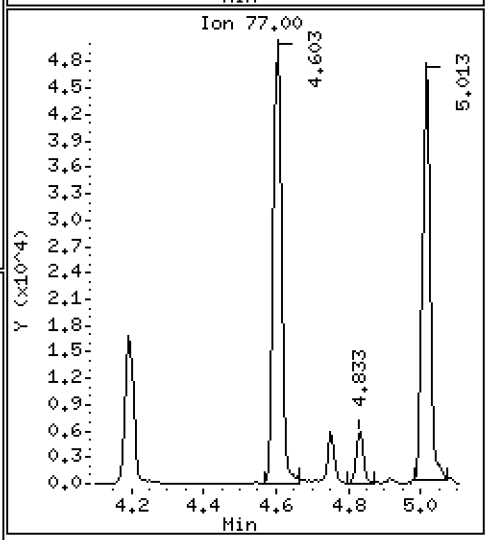












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 76

Date : 25-OCT-2016 03:26

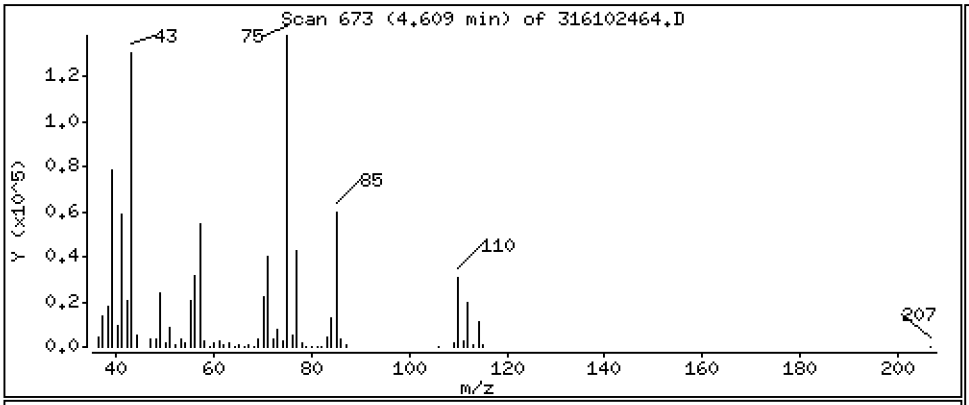
Client ID: LCS for HBN 174041 Instrument: ms03.i

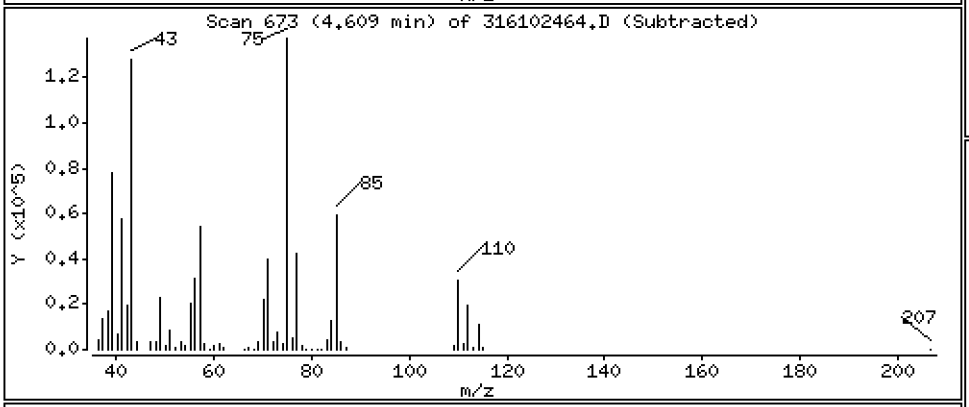
Sample Info: 2428716;;1;3;;LCS;1;

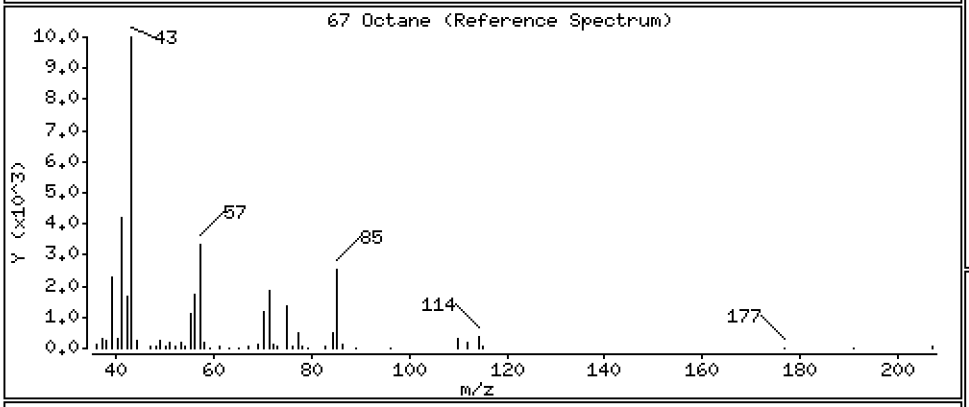
Purge Volume: 5.0 Operator: CJG

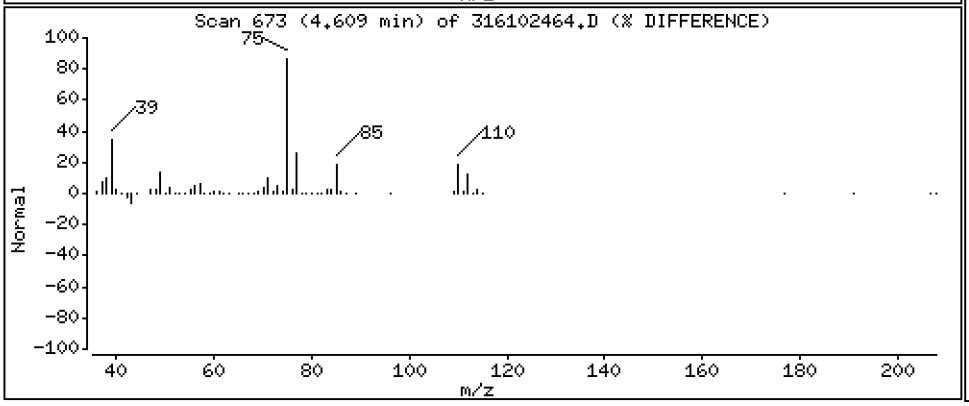
Column phase: DB-VRX Column diameter: 0.25

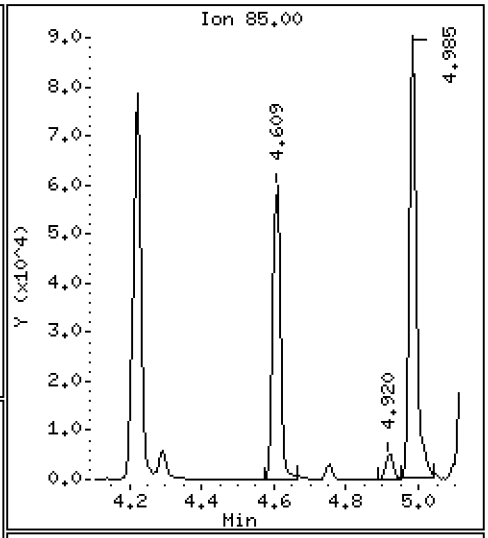
67 Octane Concentration: 20.2594 ug/L

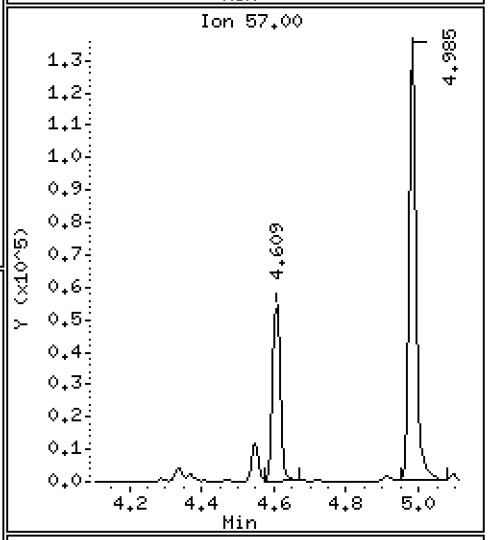


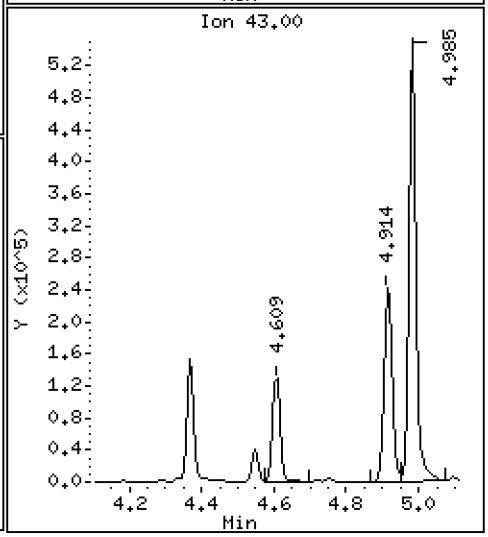












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 77

Date : 25-OCT-2016 03:26

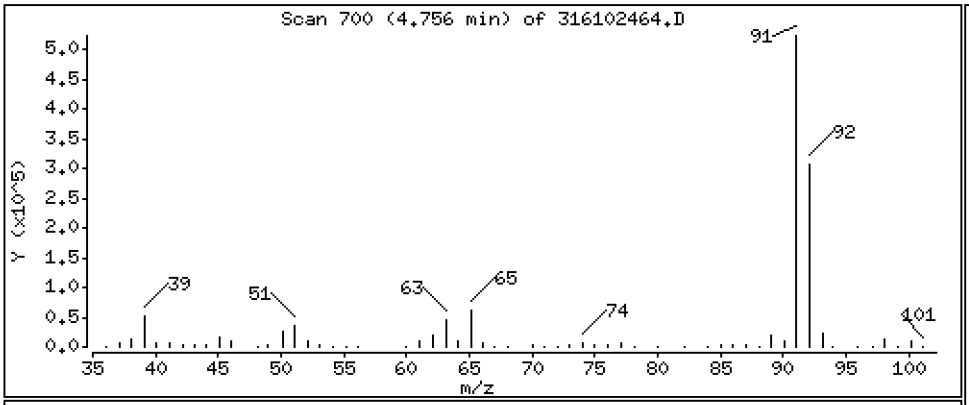
Client ID: LCS for HBN 174041 Instrument: ms03.i

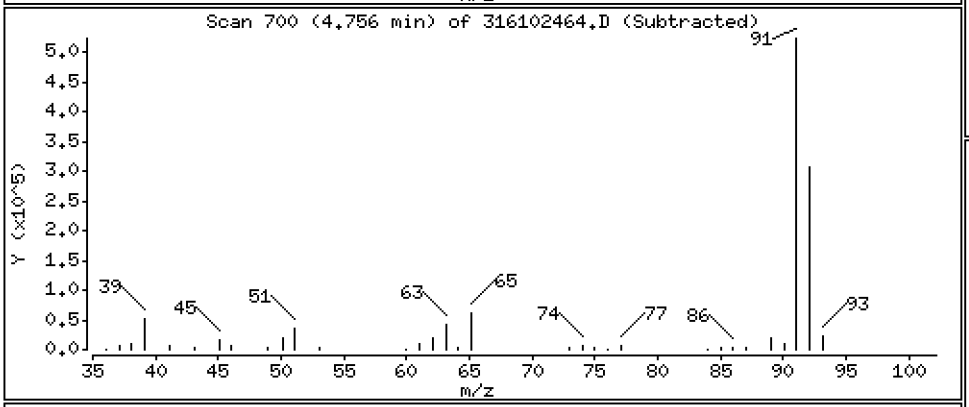
Sample Info: 2428716;;1;3;;LCS;1;

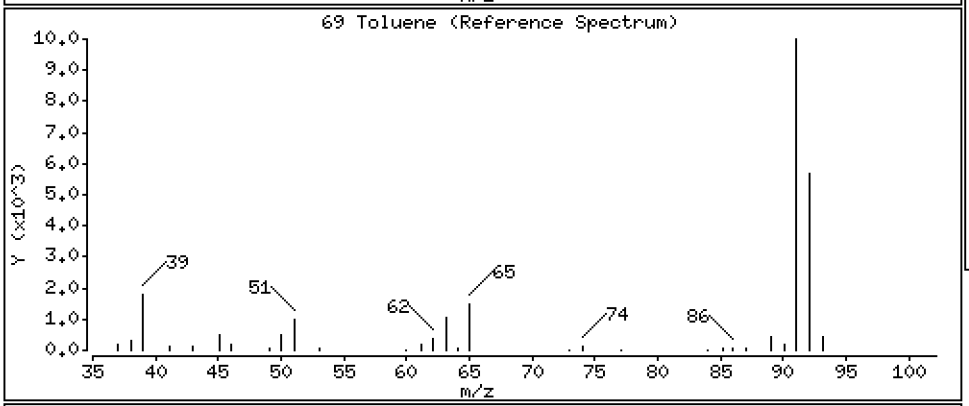
Purge Volume: 5.0 Operator: CJG

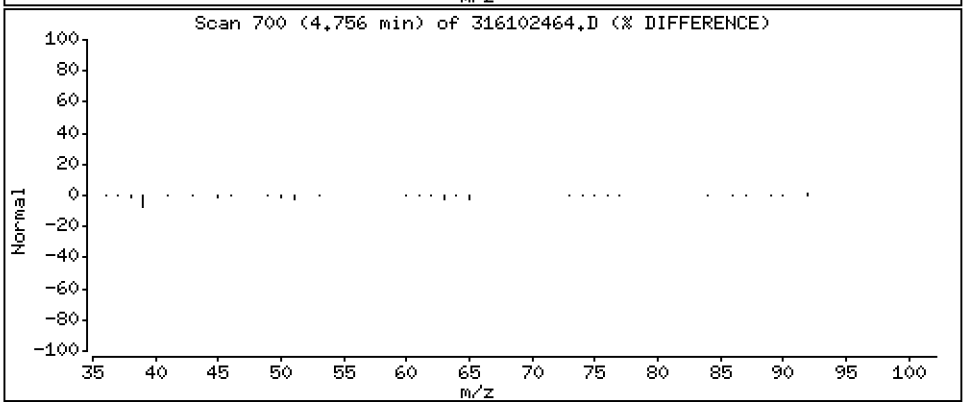
Column phase: DB-VRX Column diameter: 0.25

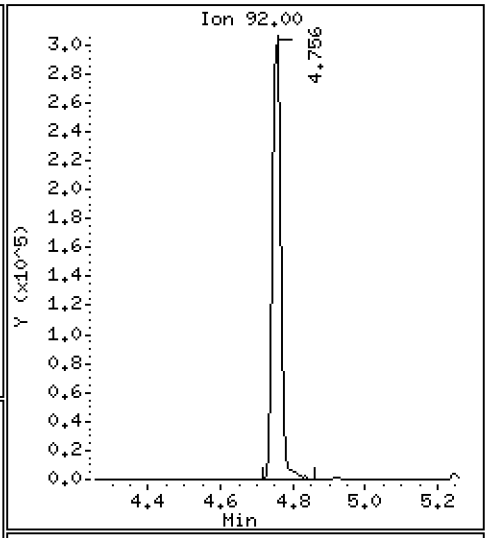
69 Toluene Concentration: 19.2033 ug/L

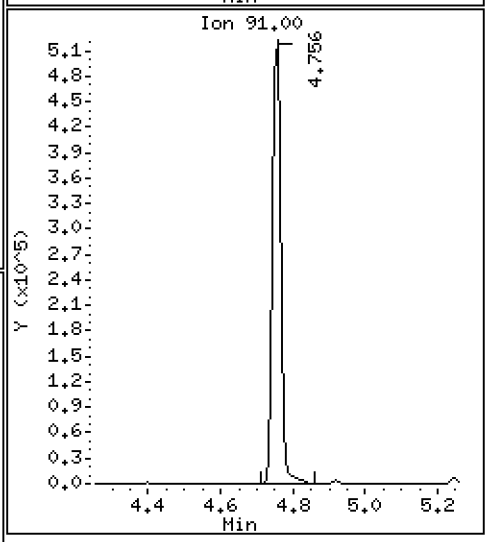












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 78

Date : 25-OCT-2016 03:26

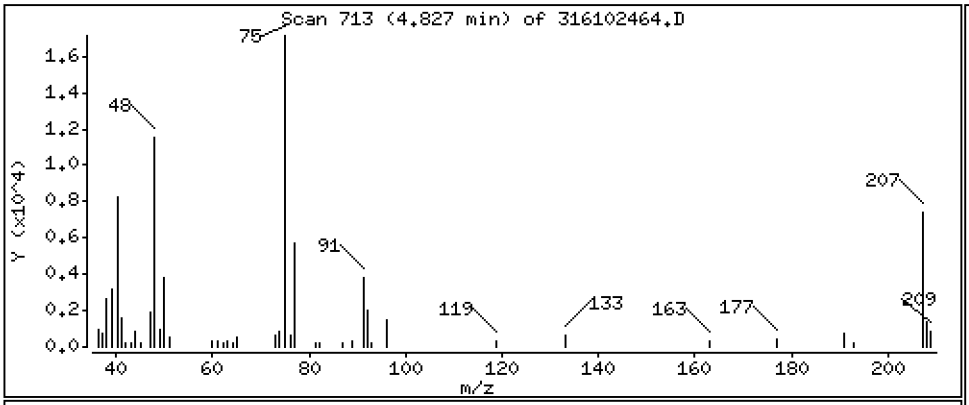
Client ID: LCS for HBN 174041 Instrument: ms03.i

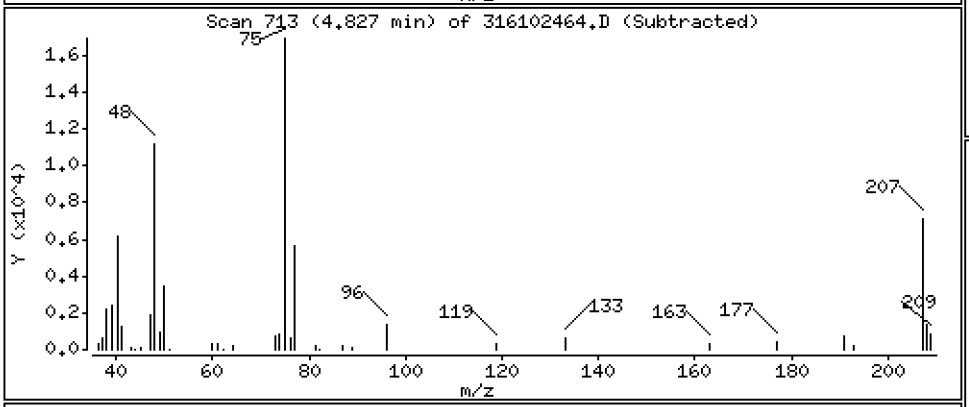
Sample Info: 2428716;;1;3;;LCS;1;

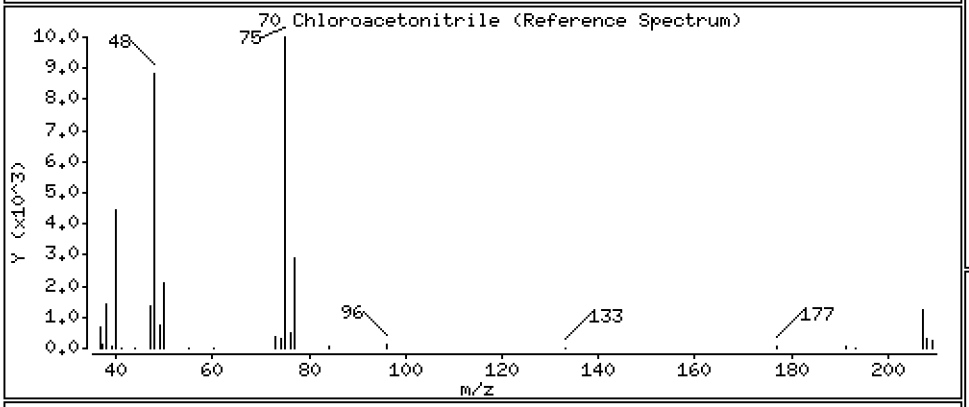
Purge Volume: 5.0 Operator: CJG

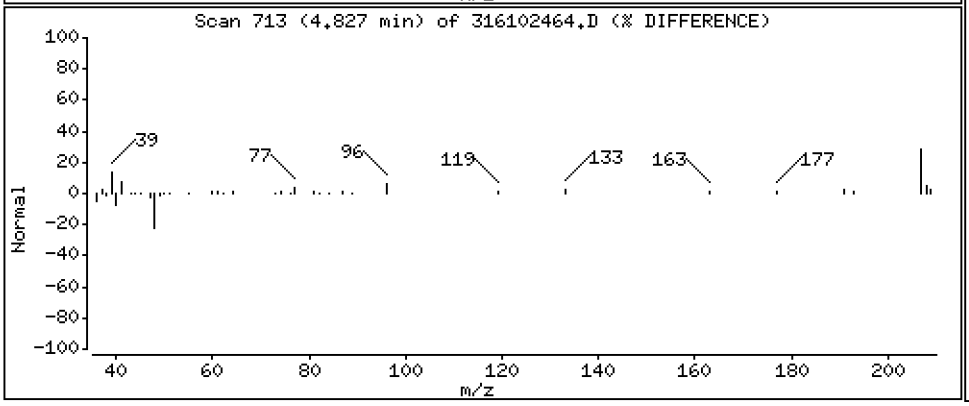
Column phase: DB-VRX Column diameter: 0.25

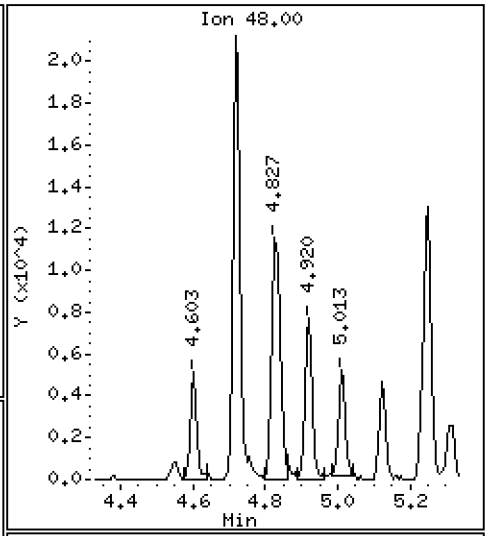
70 Chloroacetonitrile Concentration: 85.3655 ug/L

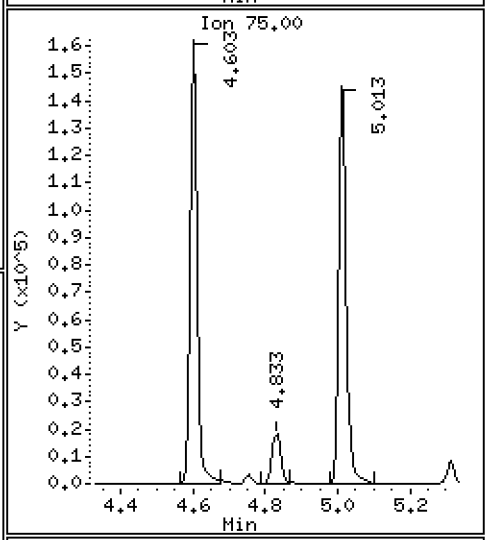


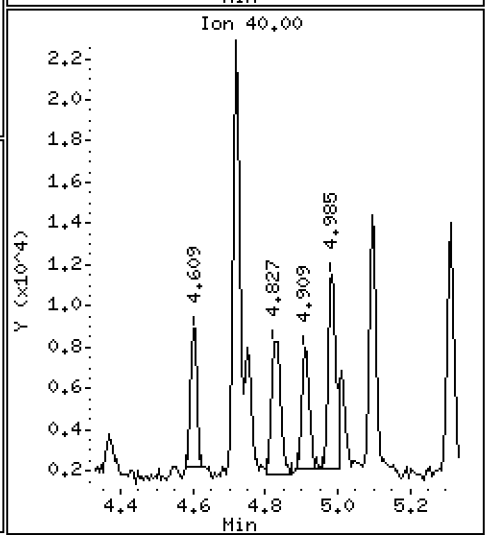












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 79

Date : 25-OCT-2016 03:26

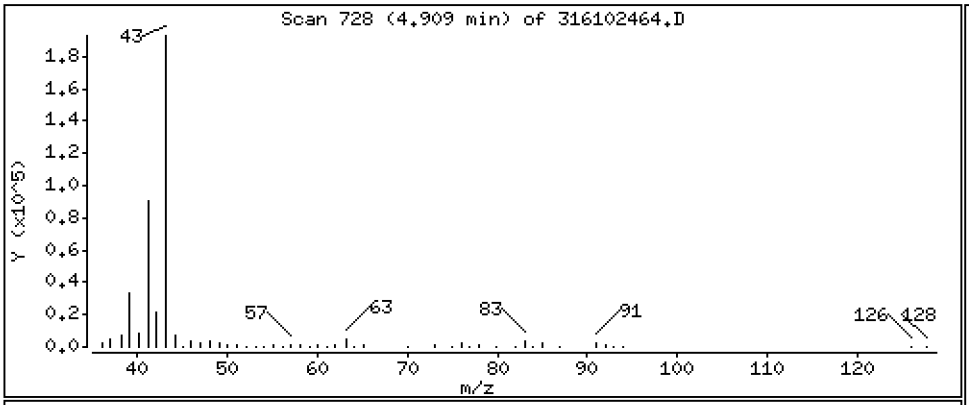
Client ID: LCS for HBN 174041 Instrument: ms03.i

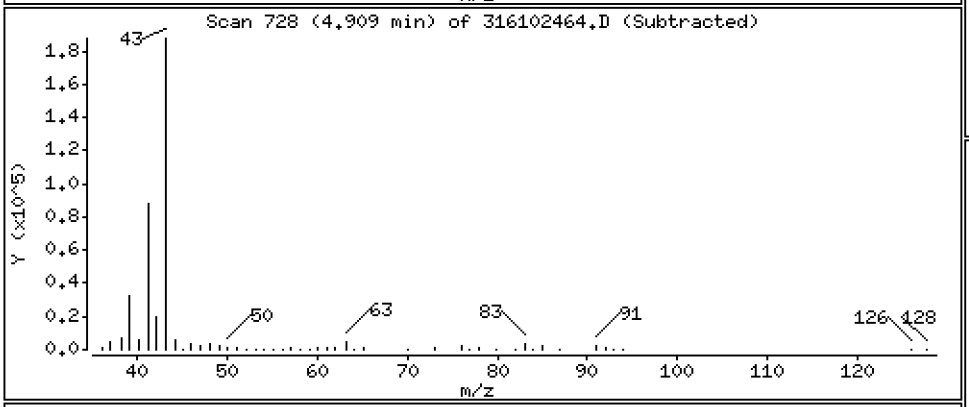
Sample Info: 2428716;;1;3;;LCS;1;

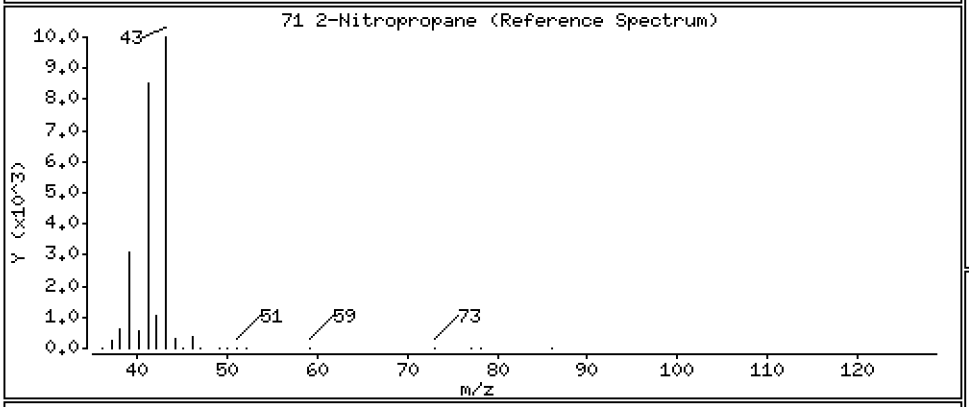
Purge Volume: 5.0 Operator: CJG

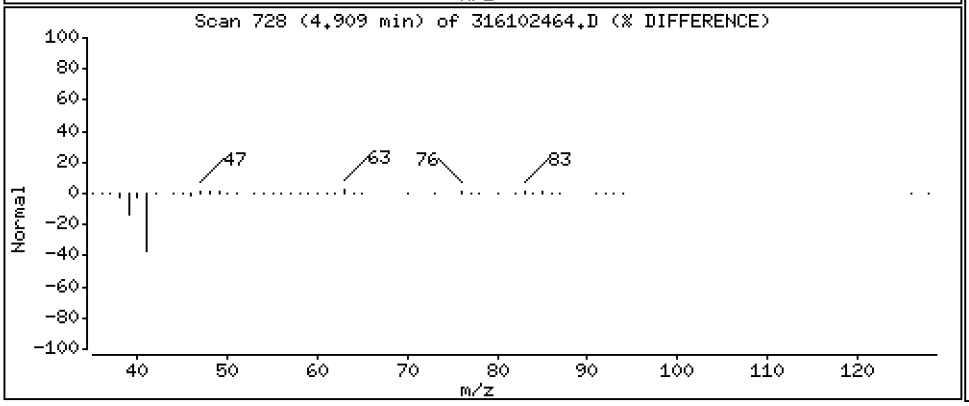
Column phase: DB-VRX Column diameter: 0.25

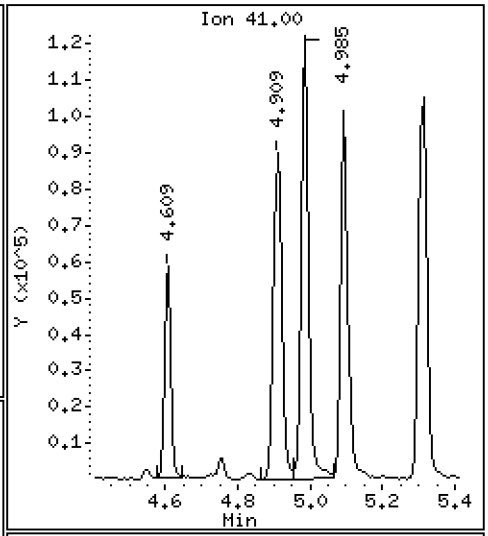
71 2-Nitropropane Concentration: 84.3970 ug/L

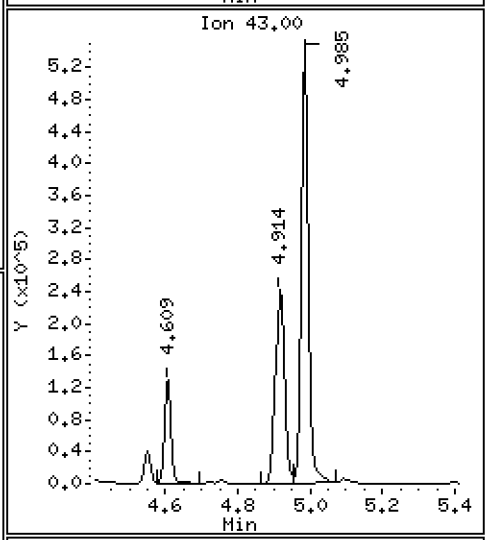


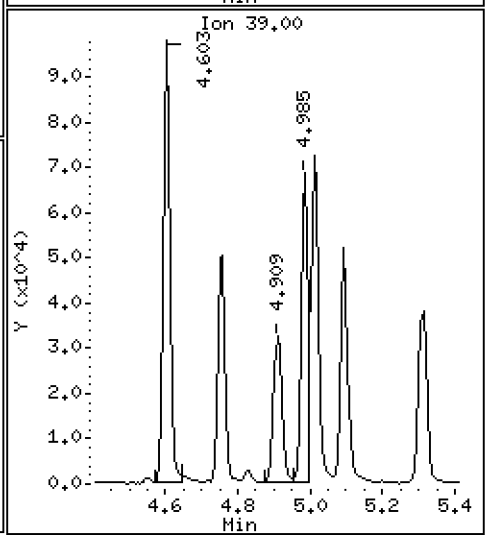












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 80

Date : 25-OCT-2016 03:26

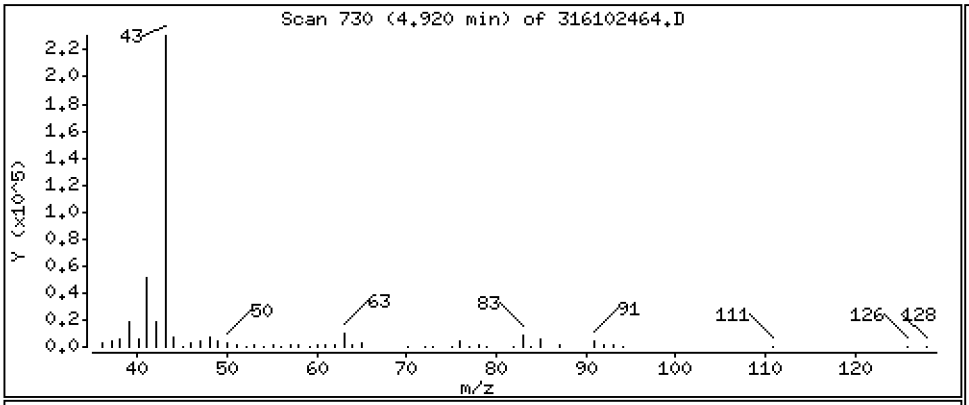
Client ID: LCS for HBN 174041 Instrument: ms03.i

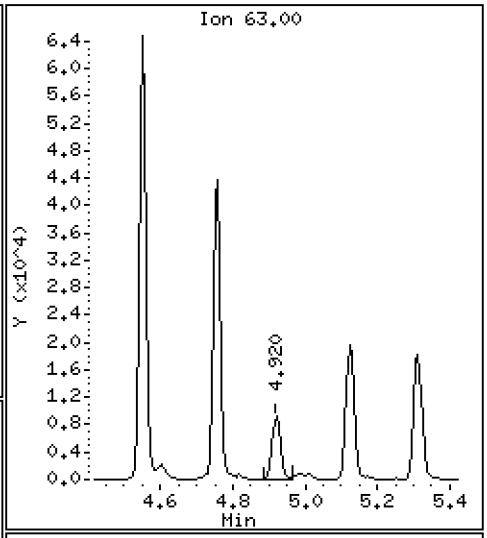
Sample Info: 2428716;;1;3;;LCS;1;

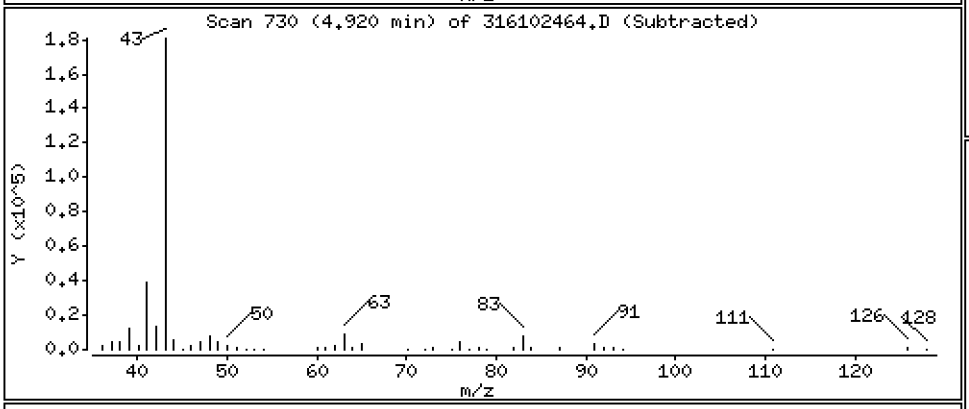
Purge Volume: 5.0 Operator: CJG

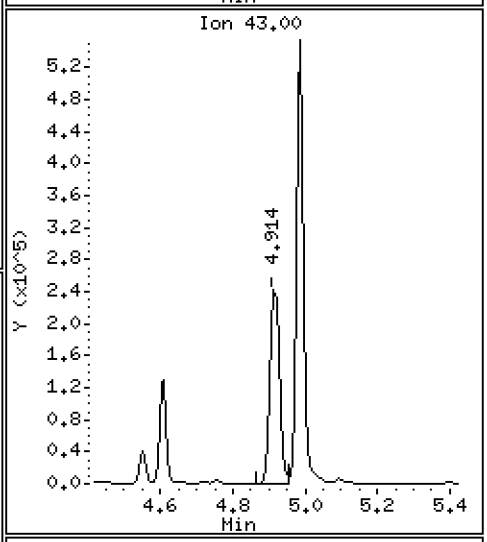
Column phase: DB-VRX Column diameter: 0.25

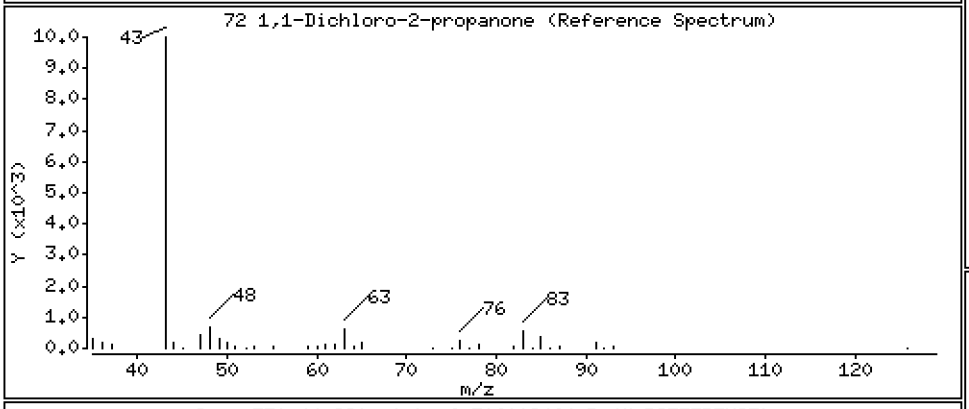
72 1,1-Dichloro-2-propanone Concentration: 91.8616 ug/L

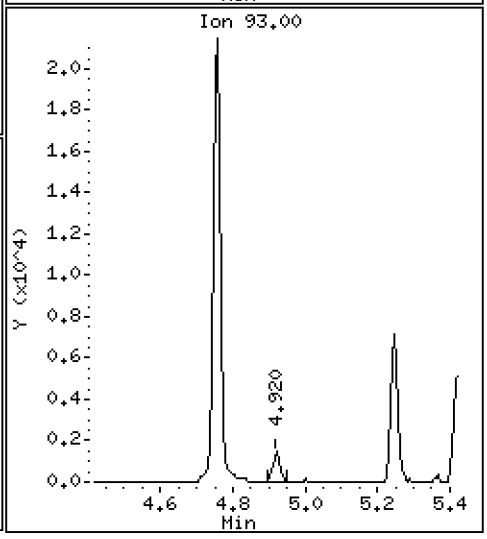


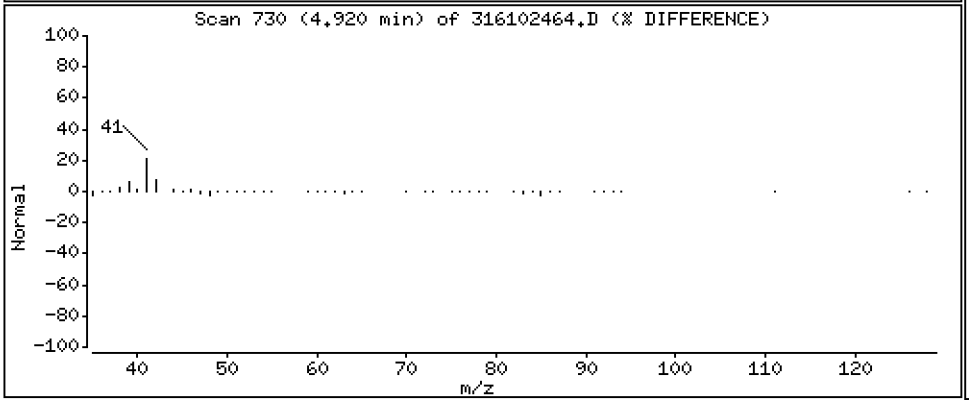












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 81

Date : 25-OCT-2016 03:26

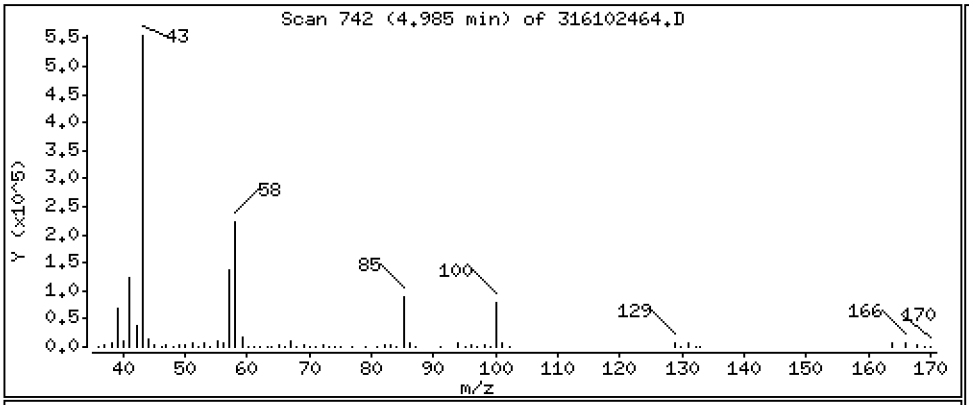
Client ID: LCS for HBN 174041 Instrument: ms03.i

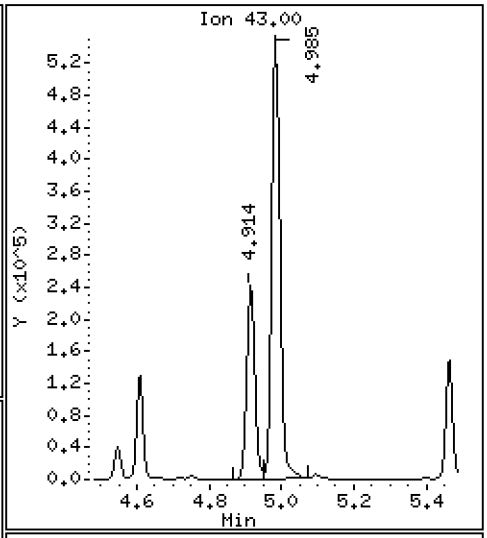
Sample Info: 2428716;;1;3;;LCS;1;

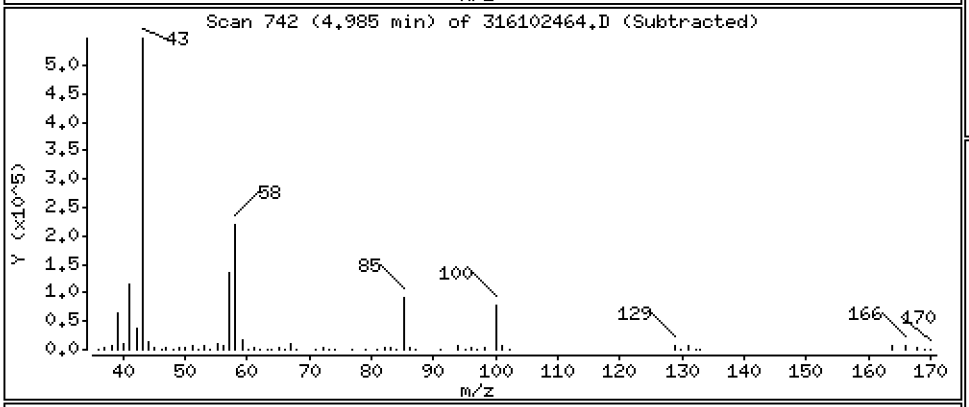
Purge Volume: 5.0 Operator: CJG

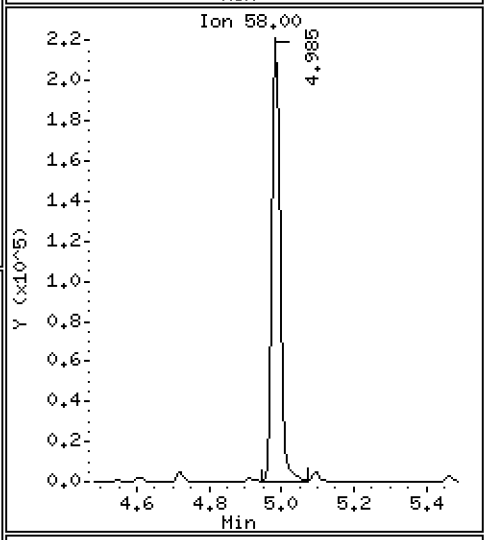
Column phase: DB-VRX Column diameter: 0.25

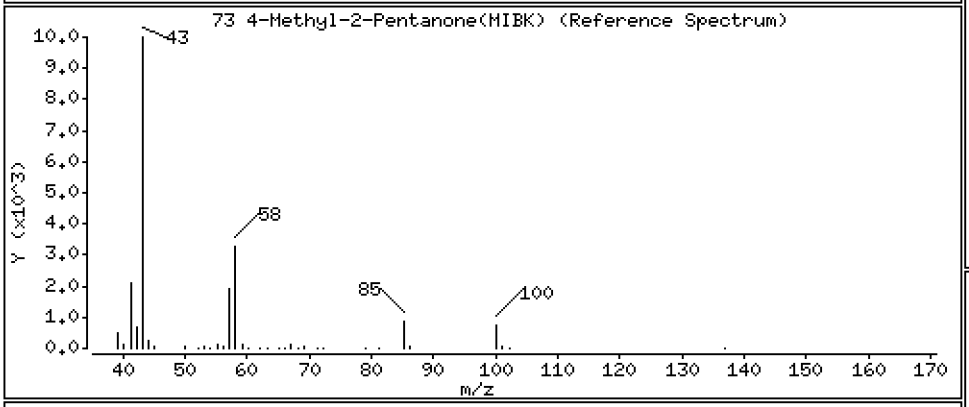
73 4-Methyl-2-Pentanone(MIBK) Concentration: 100.790 ug/L

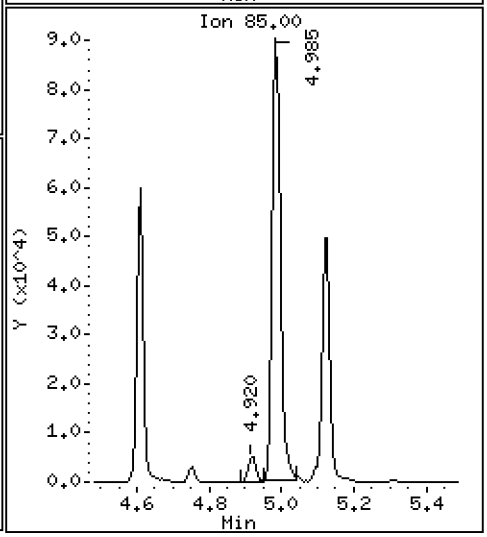


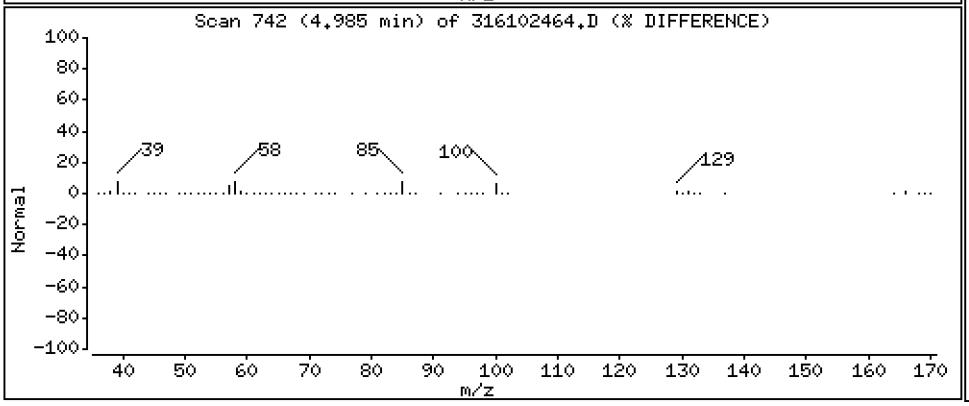












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 82

Date : 25-OCT-2016 03:26

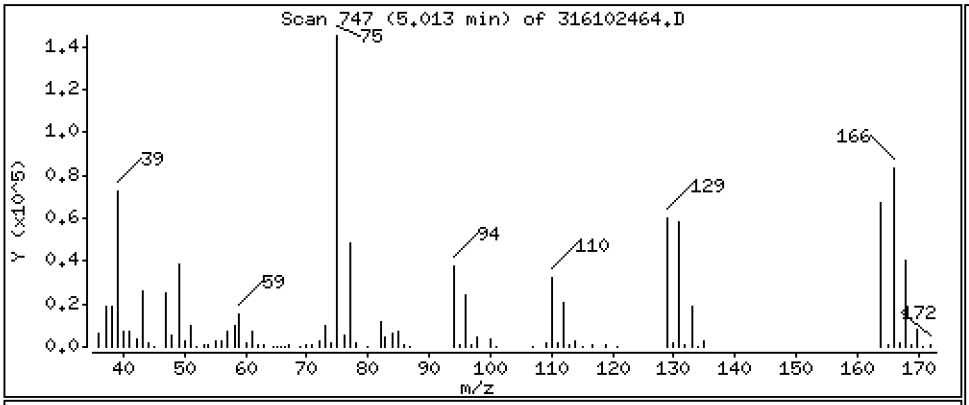
Client ID: LCS for HBN 174041 Instrument: ms03.i

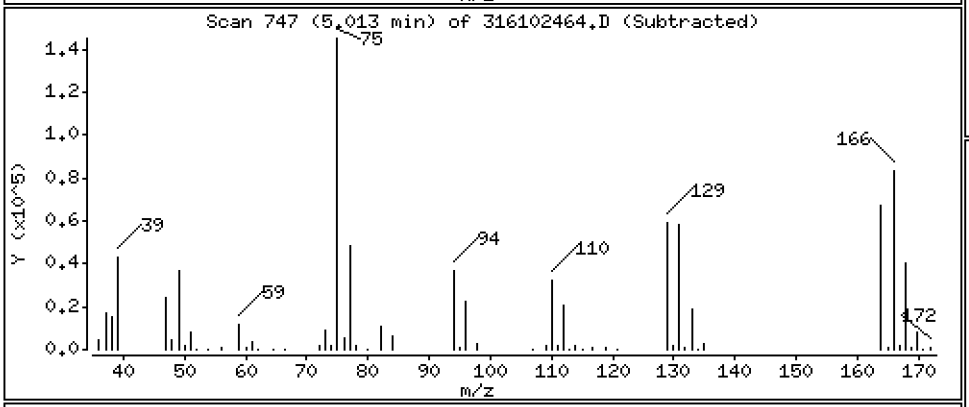
Sample Info: 2428716;;1;3;;LCS;1;

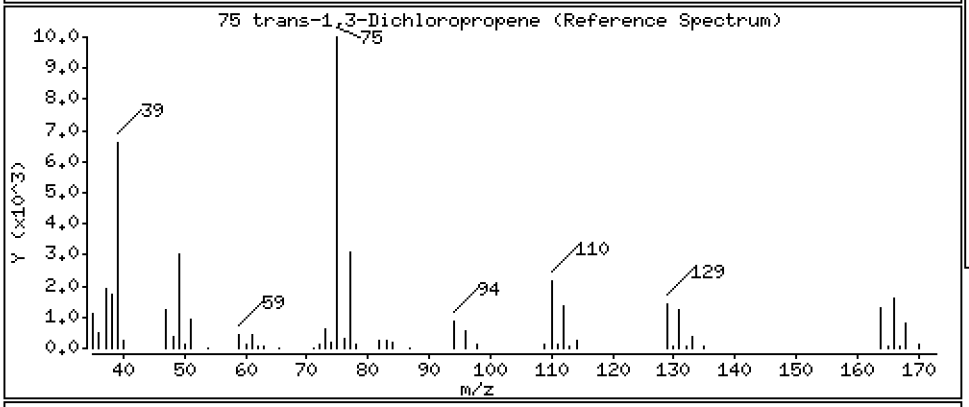
Purge Volume: 5.0 Operator: CJG

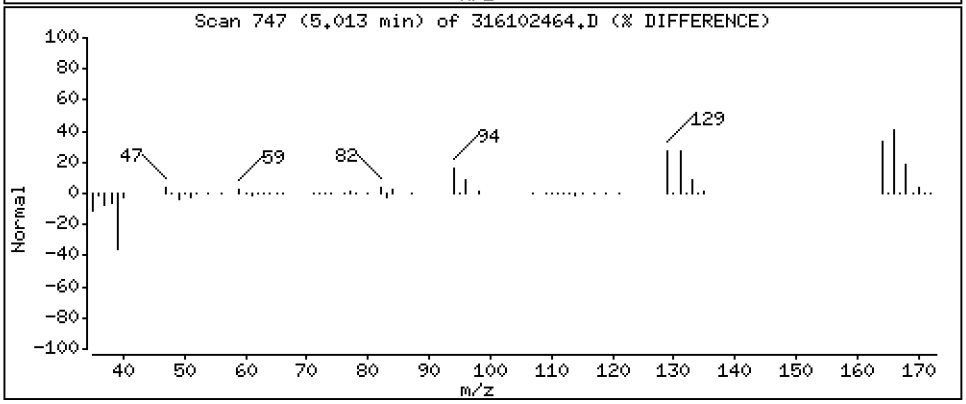
Column phase: DB-VRX Column diameter: 0.25

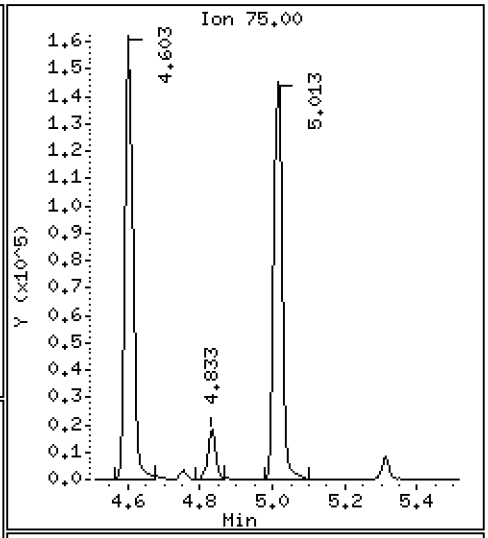
75 trans-1,3-Dichloropropene Concentration: 19.2560 ug/L

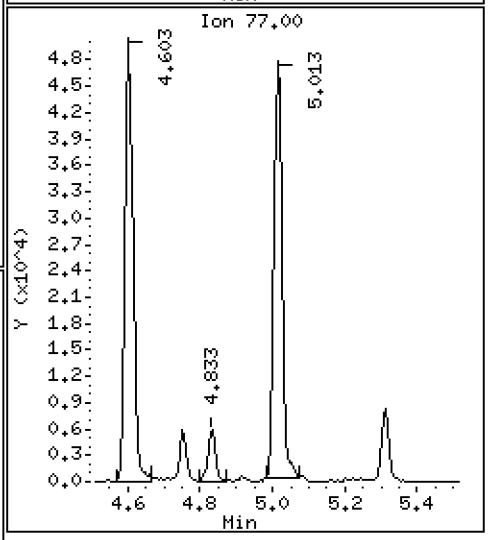












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 83

Date : 25-OCT-2016 03:26

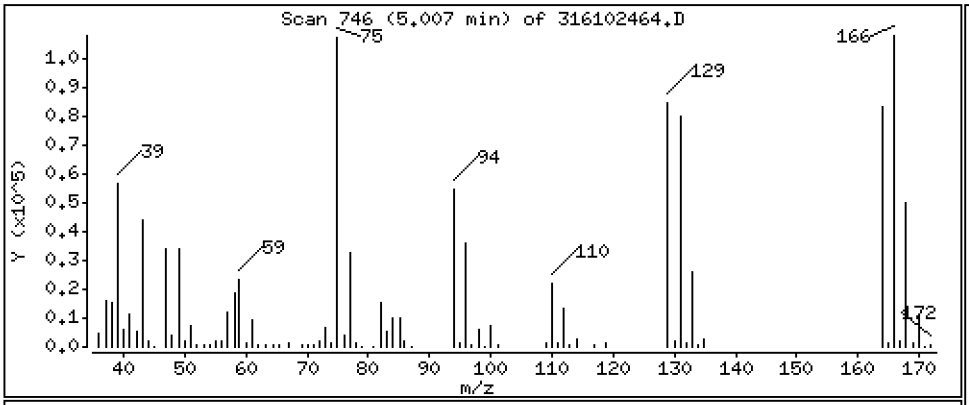
Client ID: LCS for HBN 174041 Instrument: ms03.i

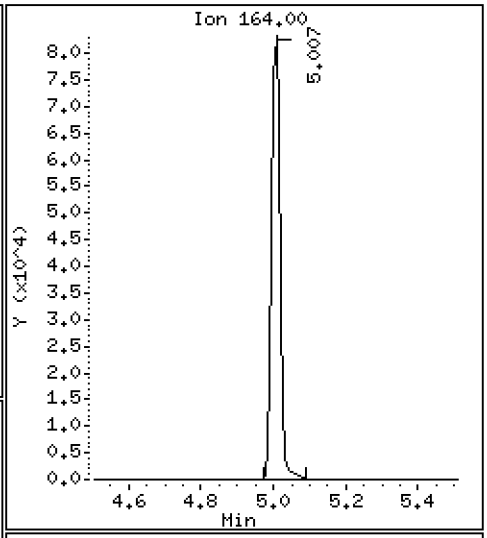
Sample Info: 2428716;;1;3;;LCS;1;

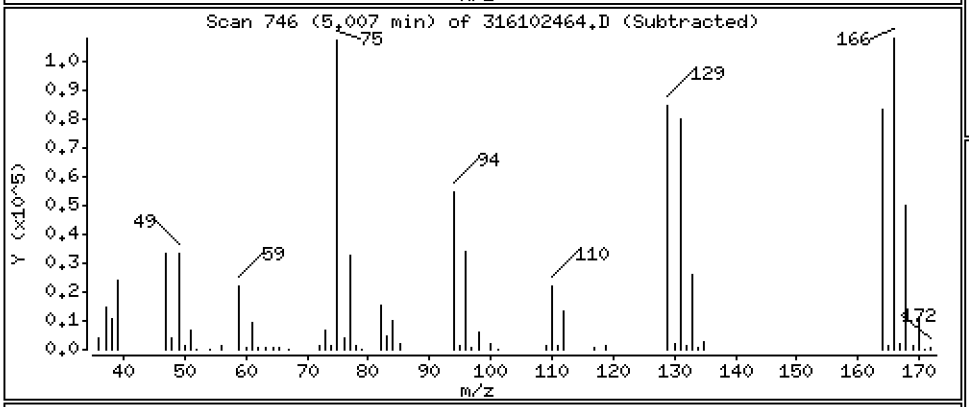
Purge Volume: 5.0 Operator: CJG

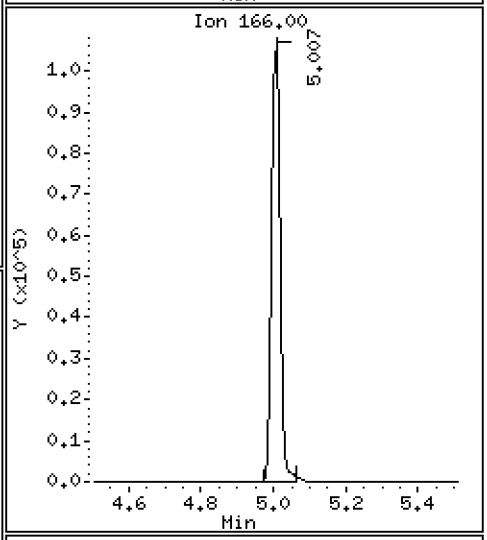
Column phase: DB-VRX Column diameter: 0.25

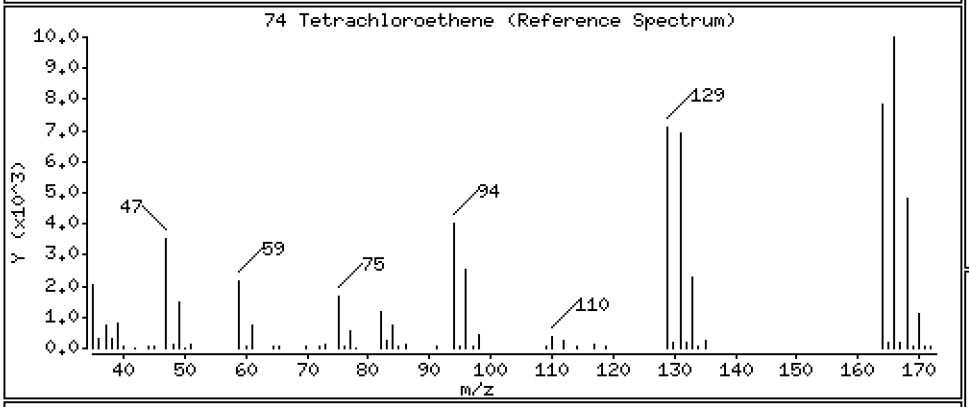
74 Tetrachloroethene Concentration: 22.5487 ug/L

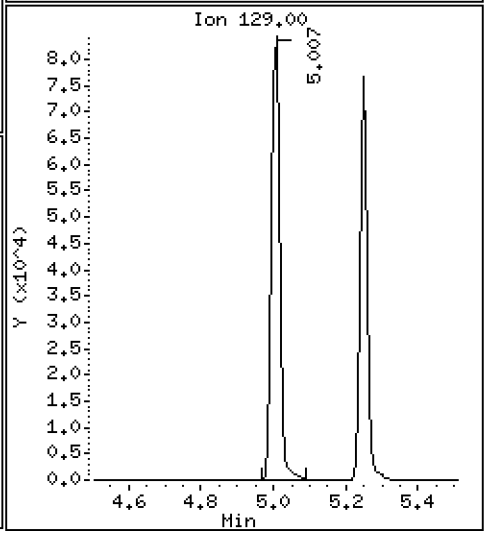


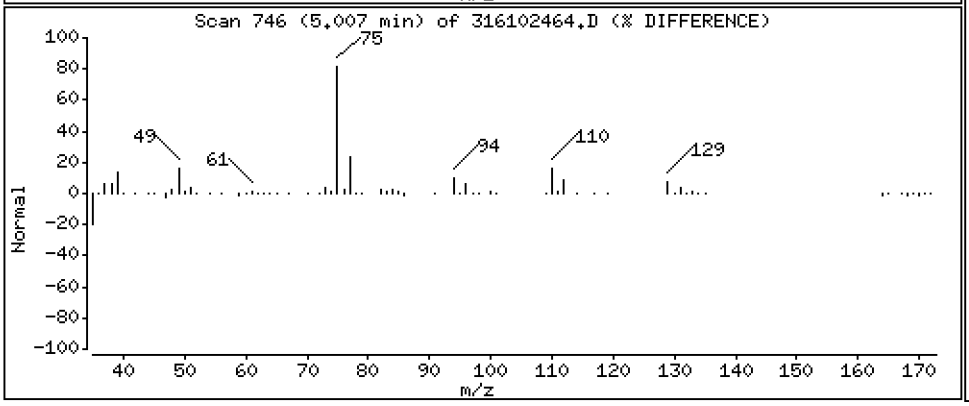












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 84

Date : 25-OCT-2016 03:26

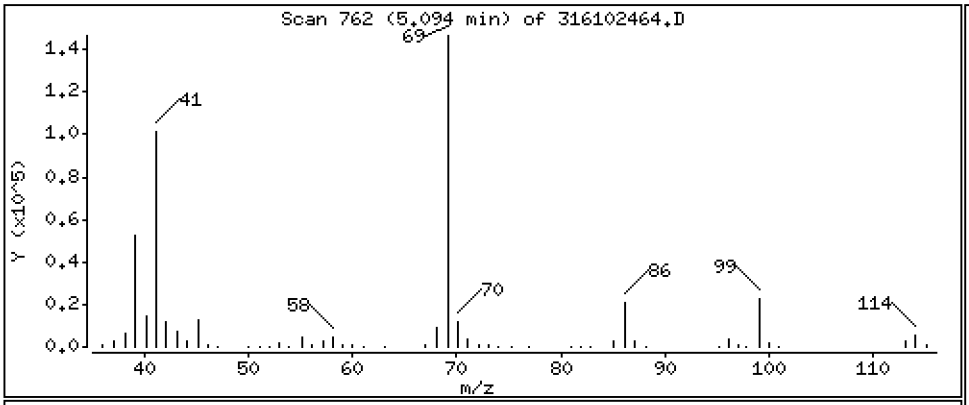
Client ID: LCS for HBN 174041 Instrument: ms03.i

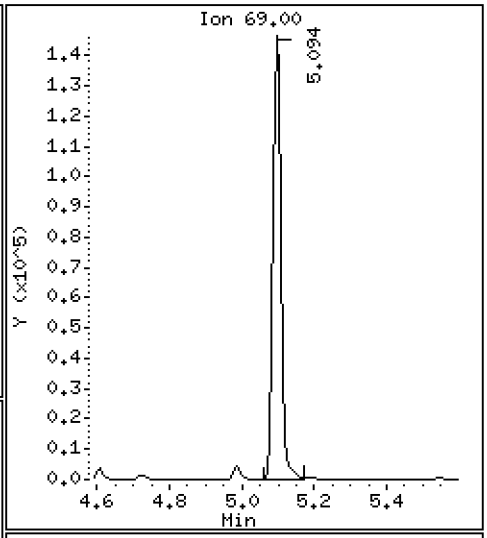
Sample Info: 2428716;;1;3;;LCS;1;

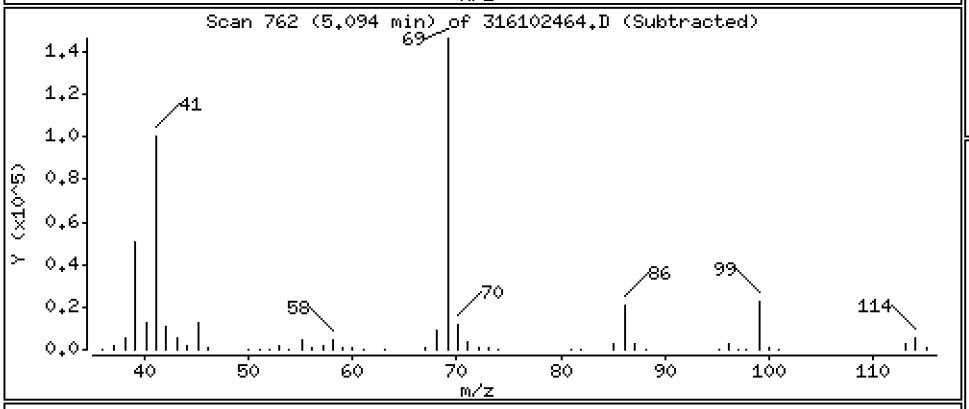
Purge Volume: 5.0 Operator: CJG

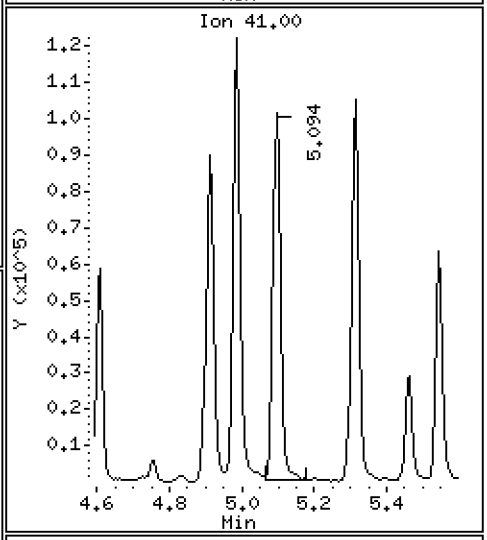
Column phase: DB-VRX Column diameter: 0.25

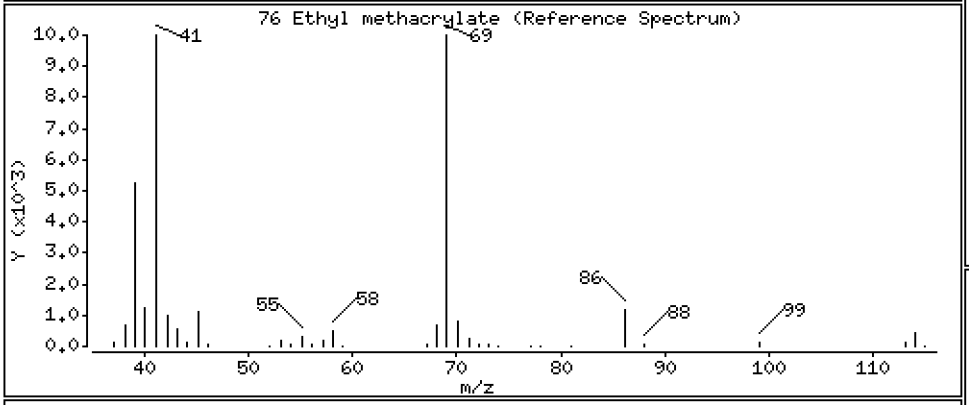
76 Ethyl methacrylate Concentration: 19.8433 ug/L

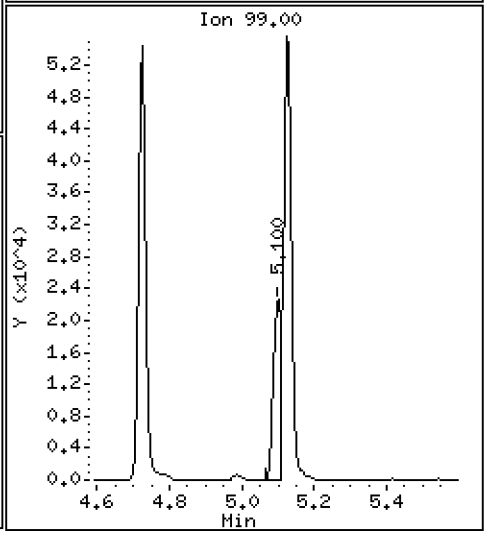


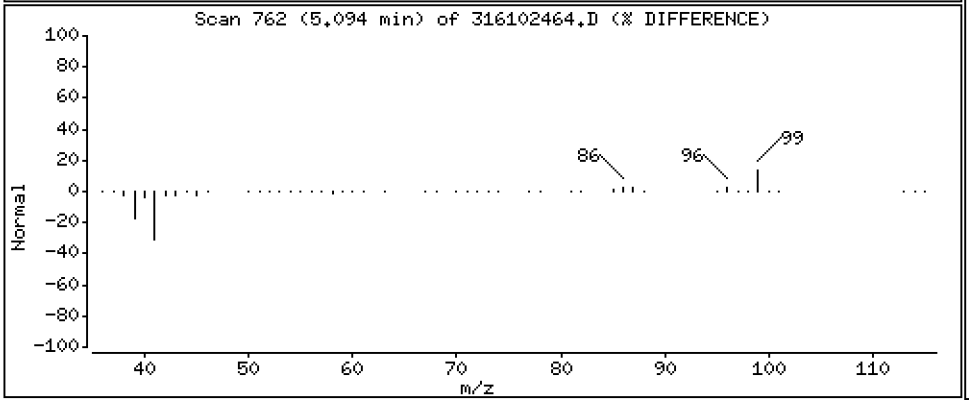












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 85

Date : 25-OCT-2016 03:26

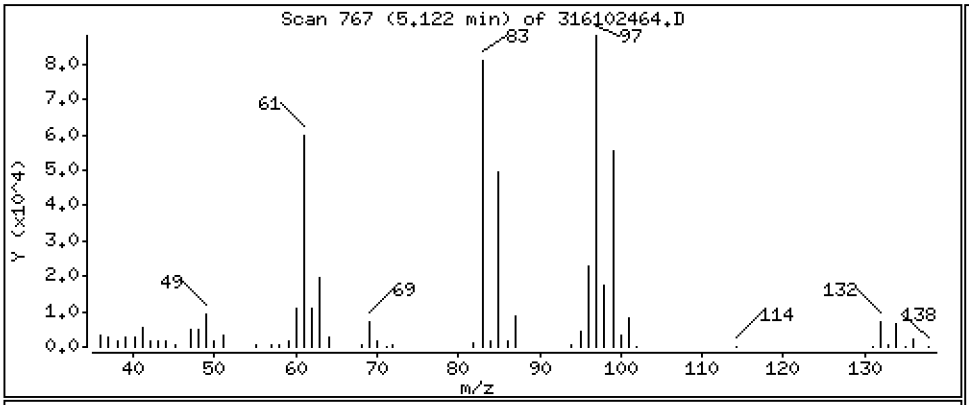
Client ID: LCS for HBN 174041 Instrument: ms03.i

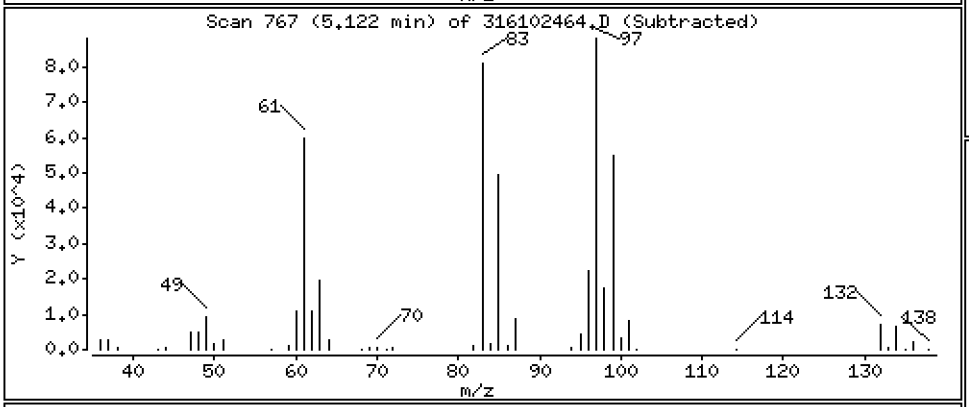
Sample Info: 2428716;;1;3;;LCS;1;

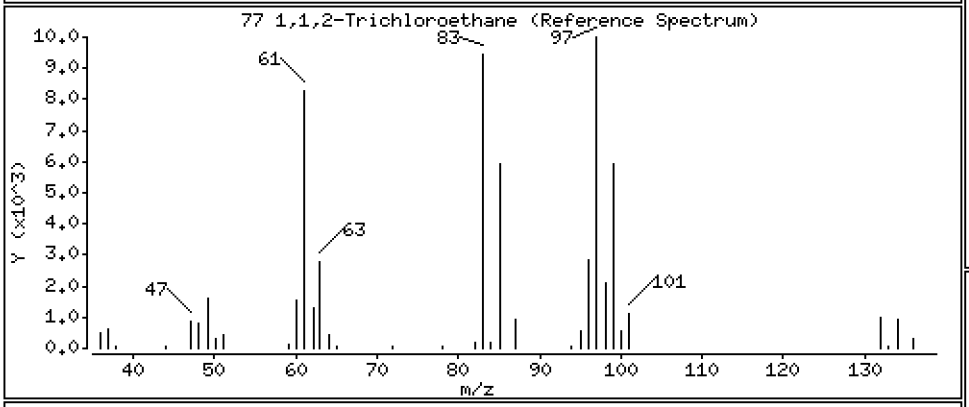
Purge Volume: 5.0 Operator: CJG

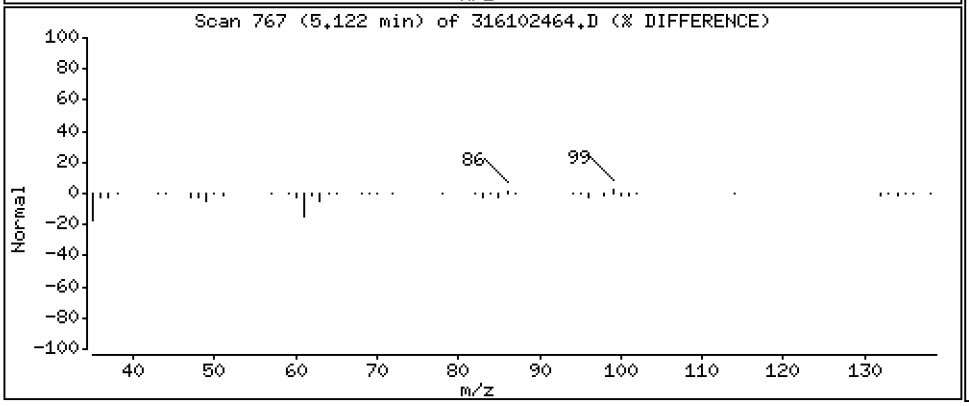
Column phase: DB-VRX Column diameter: 0.25

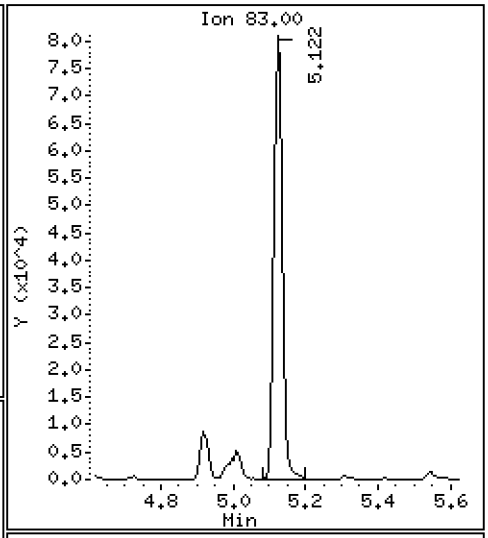
77 1,1,2-Trichloroethane Concentration: 18.0028 ug/L

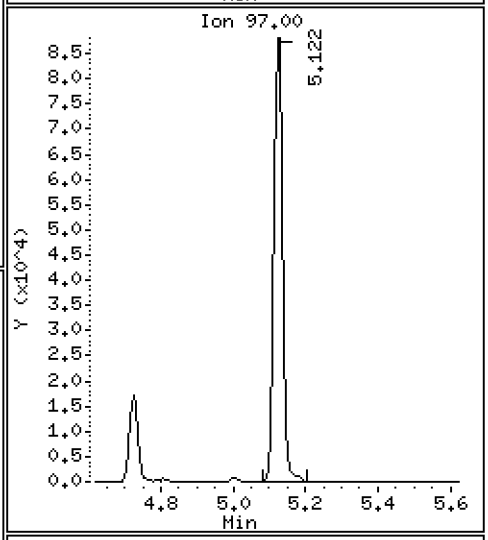


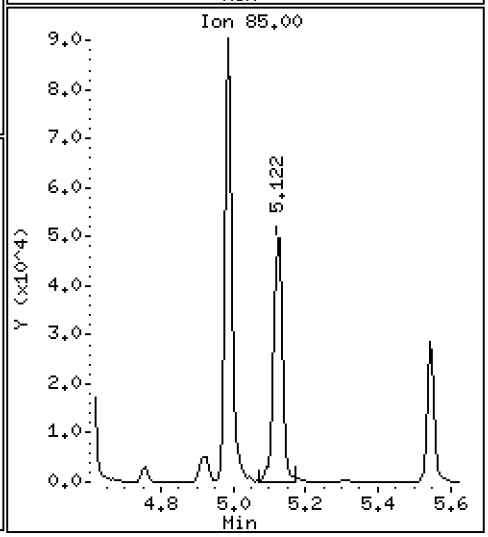












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 86

Date : 25-OCT-2016 03:26

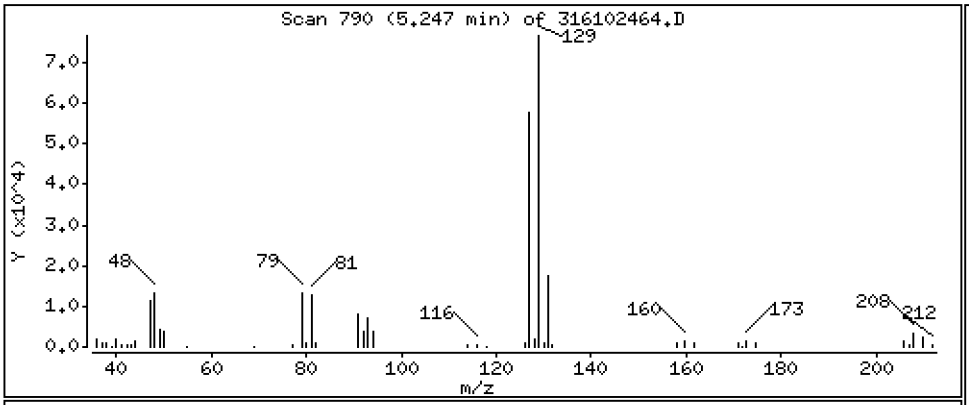
Client ID: LCS for HBN 174041 Instrument: ms03.i

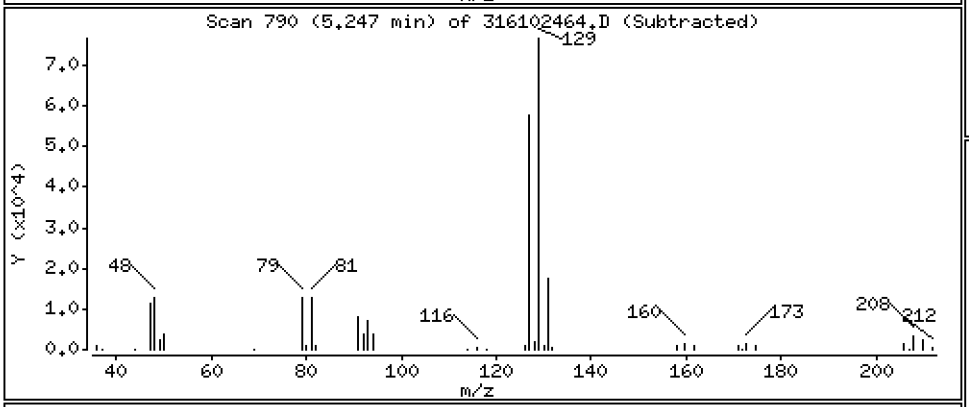
Sample Info: 2428716;;1;3;;LCS;1;

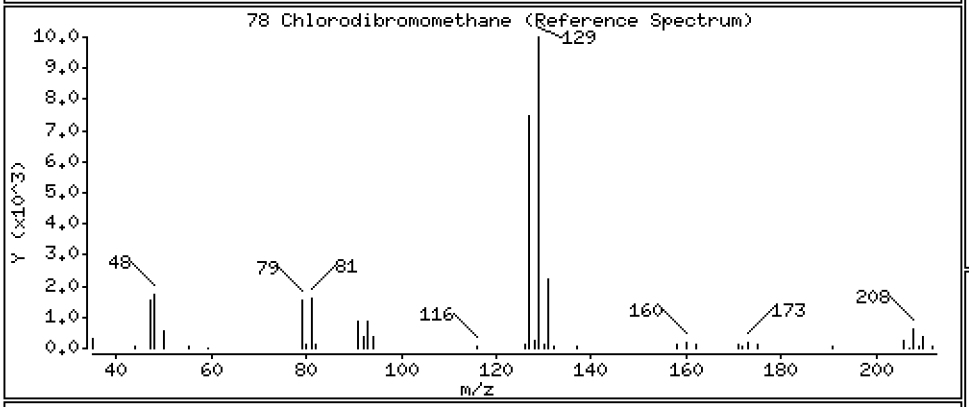
Purge Volume: 5.0 Operator: CJG

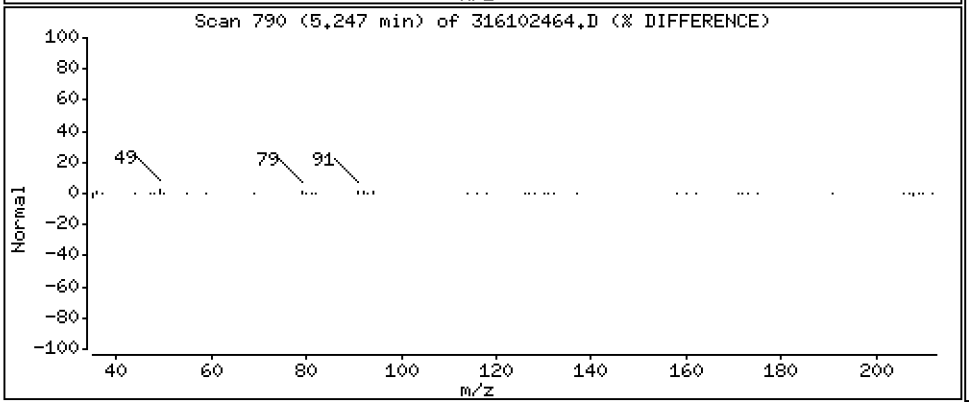
Column phase: DB-VRX Column diameter: 0.25

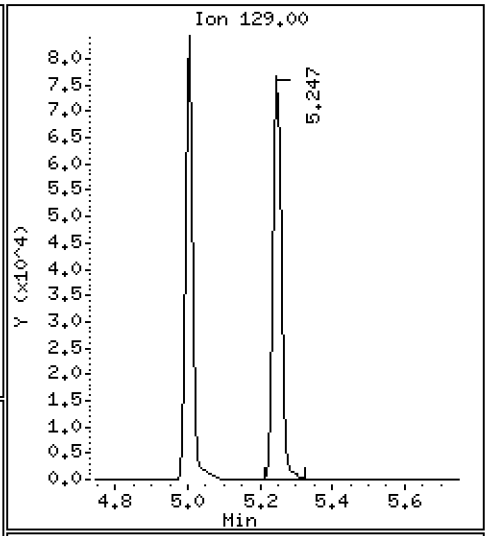
78 Chlorodibromomethane Concentration: 18.7188 ug/L

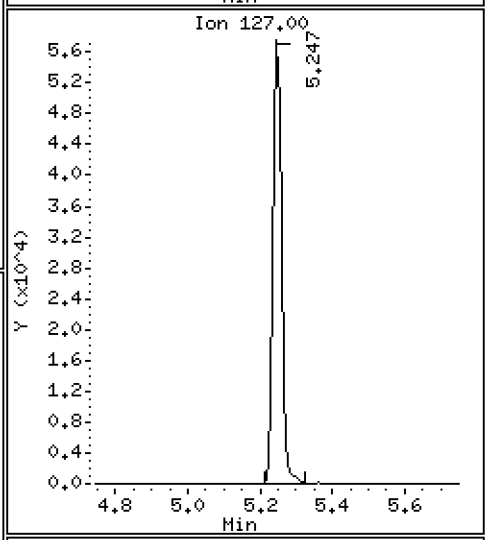


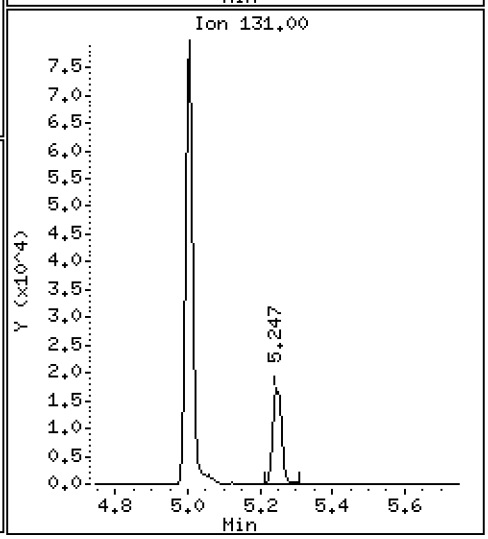












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 87

Date : 25-OCT-2016 03:26

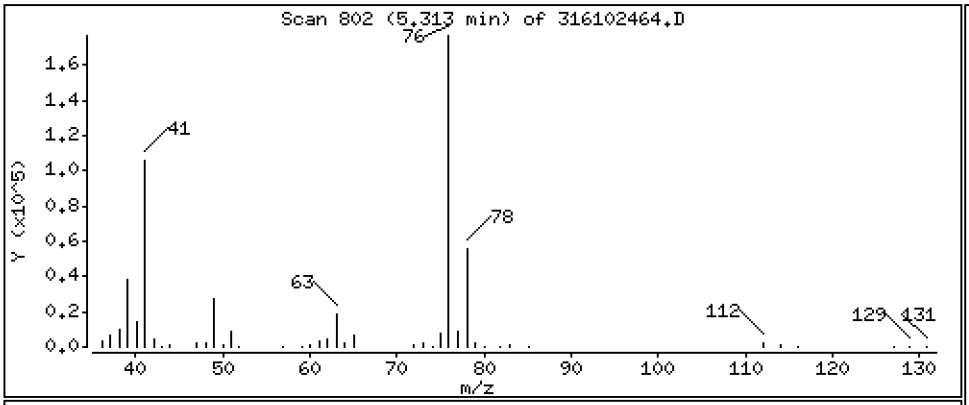
Client ID: LCS for HBN 174041 Instrument: ms03.i

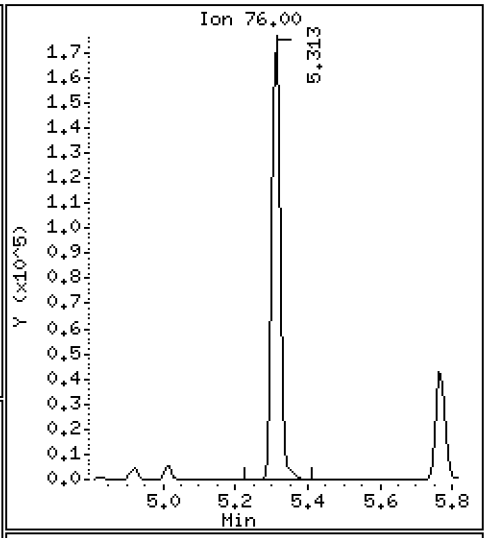
Sample Info: 2428716;;1;3;;LCS;1;

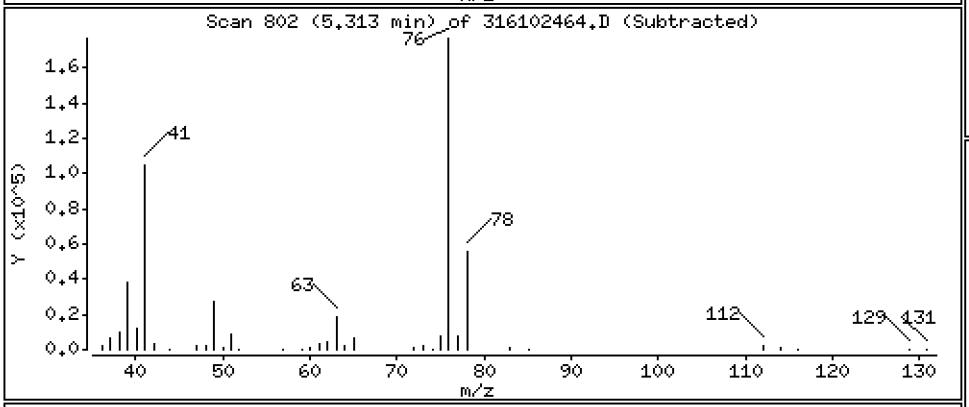
Purge Volume: 5.0 Operator: CJG

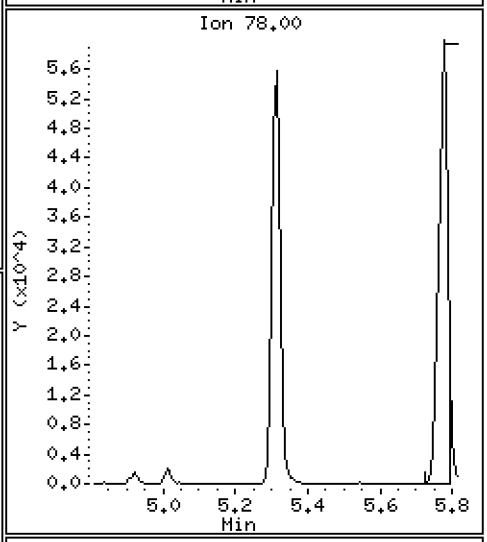
Column phase: DB-VRX Column diameter: 0.25

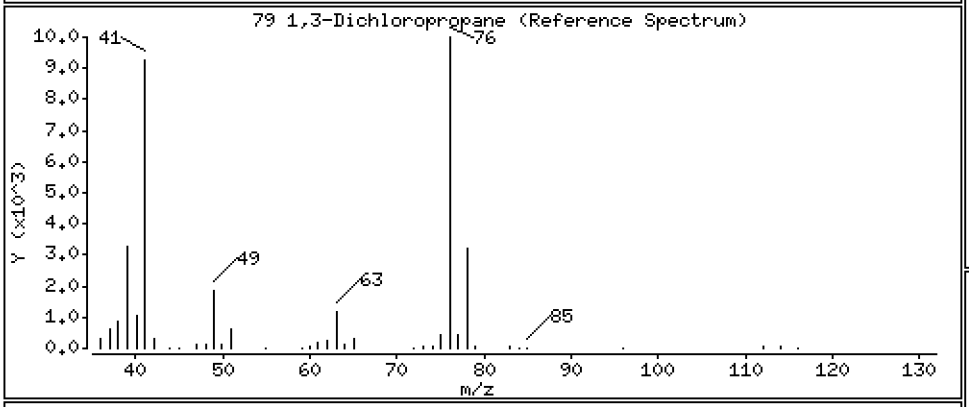
79 1,3-Dichloropropane Concentration: 17.9384 ug/L

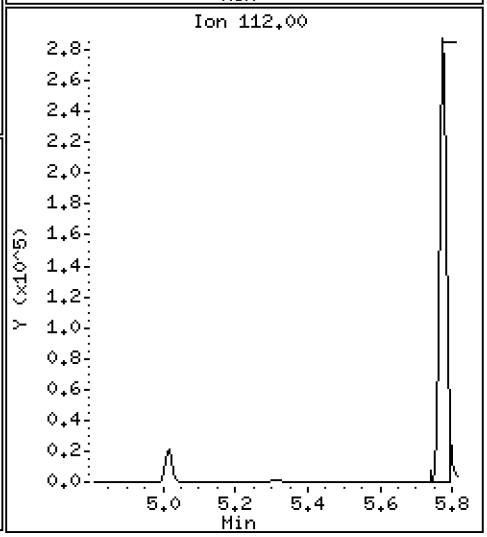


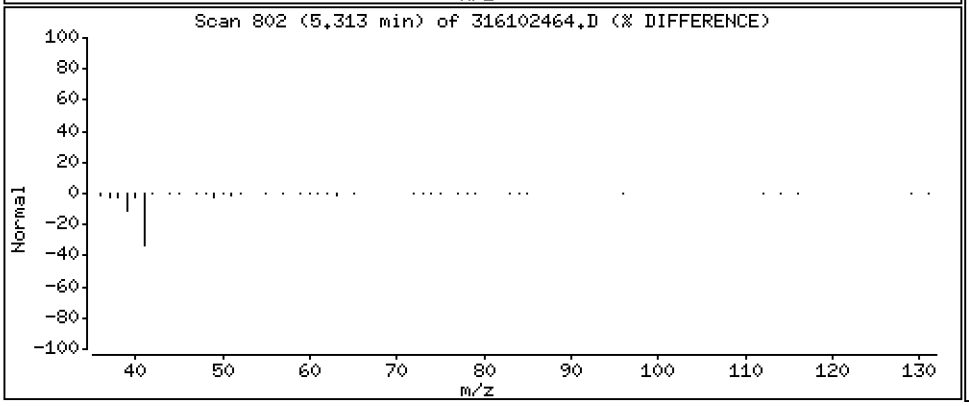












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 88

Date : 25-OCT-2016 03:26

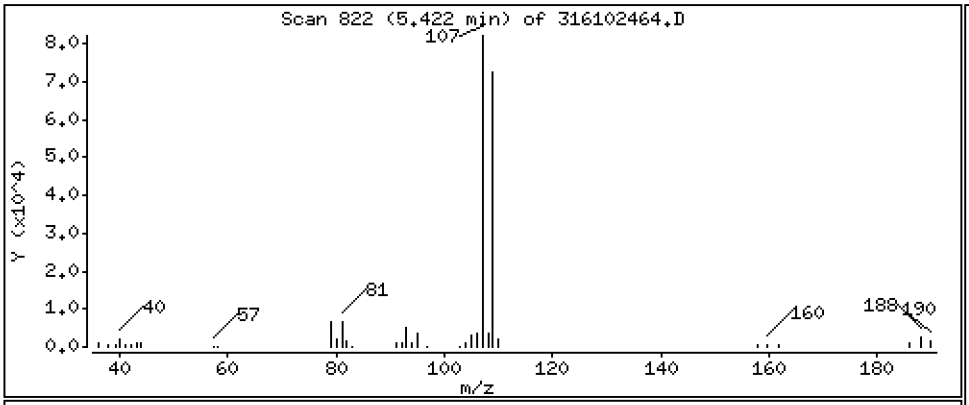
Client ID: LCS for HBN 174041 Instrument: ms03.i

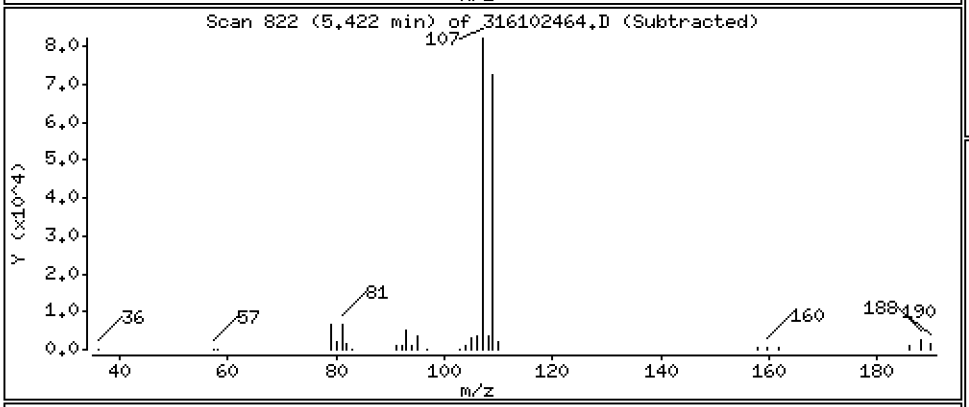
Sample Info: 2428716;;1;3;;LCS;1;

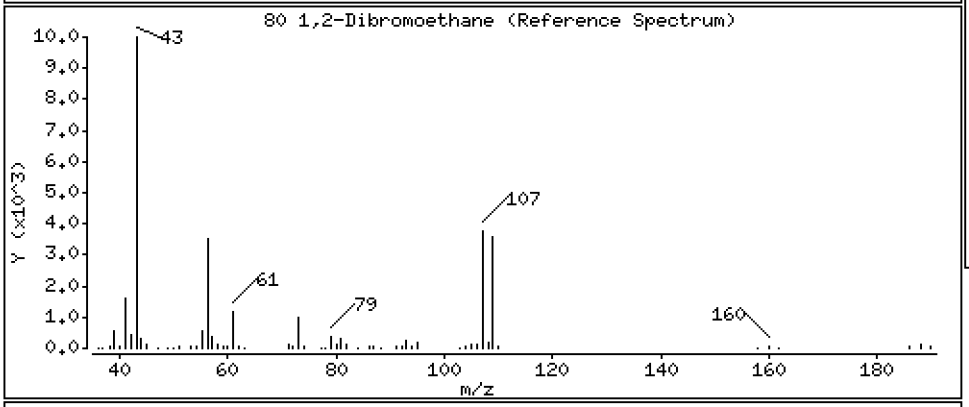
Purge Volume: 5.0 Operator: CJG

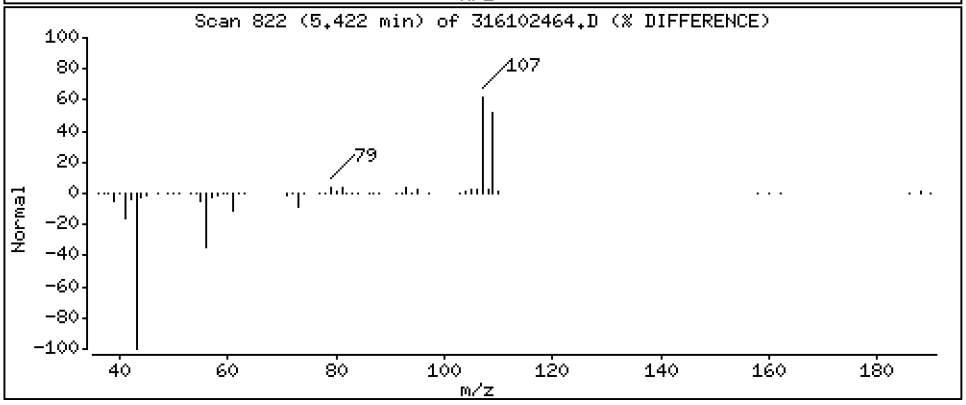
Column phase: DB-VRX Column diameter: 0.25

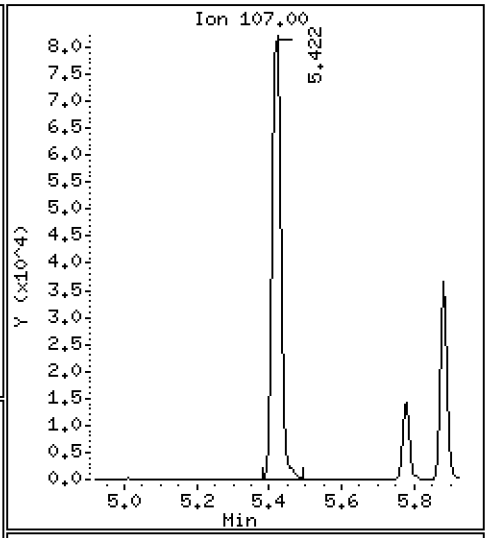
80 1,2-Dibromoethane Concentration: 18.9954 ug/L

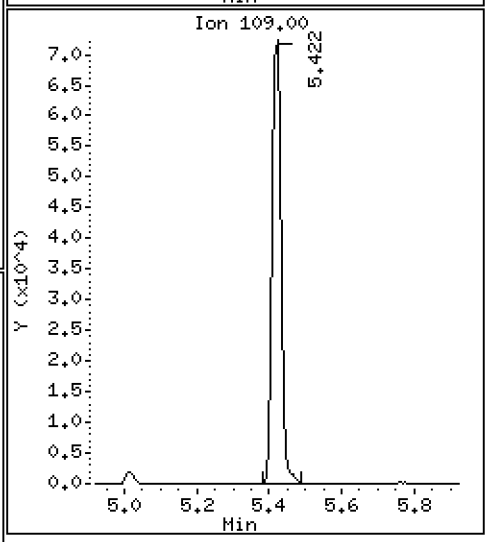












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 89

Date : 25-OCT-2016 03:26

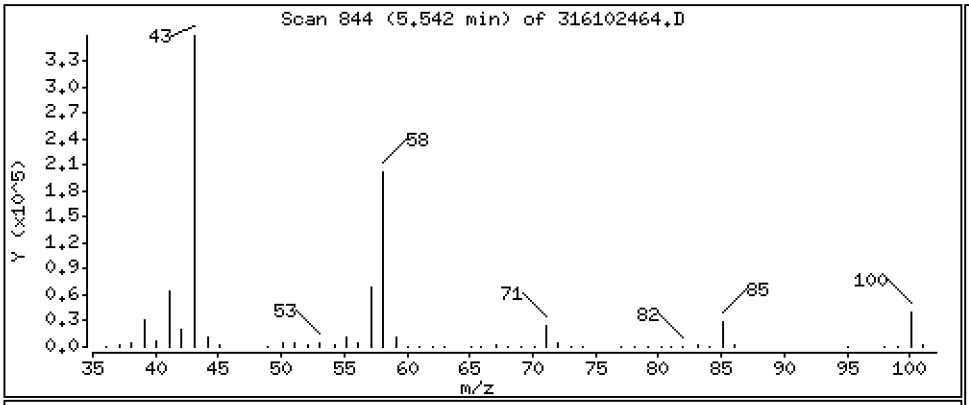
Client ID: LCS for HBN 174041 Instrument: ms03.i

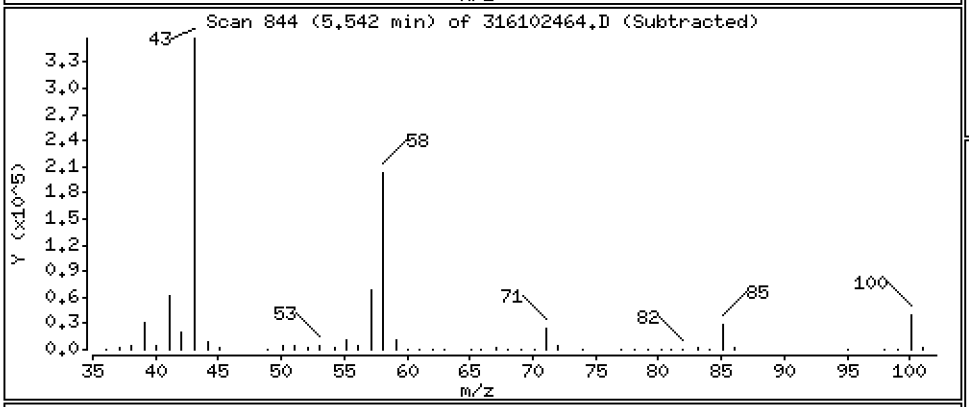
Sample Info: 2428716;;1;3;;LCS;1;

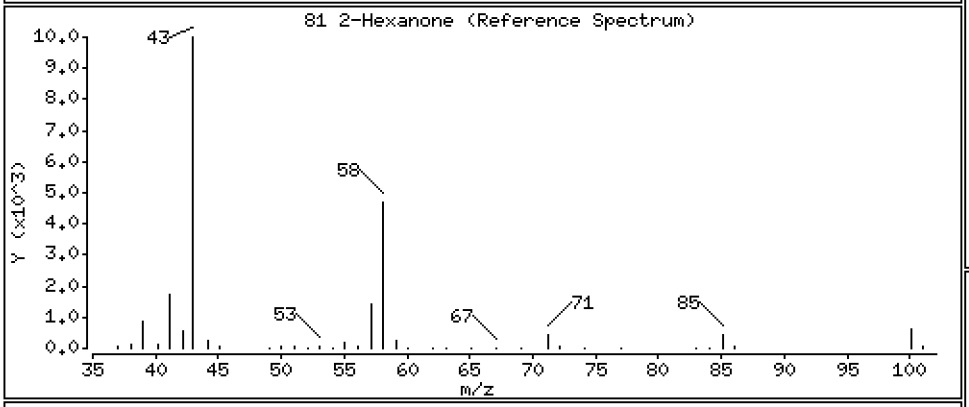
Purge Volume: 5.0 Operator: CJG

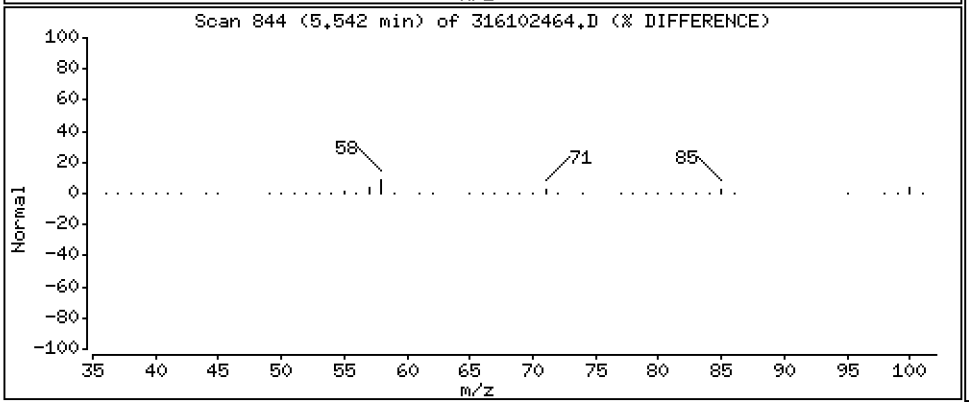
Column phase: DB-VRX Column diameter: 0.25

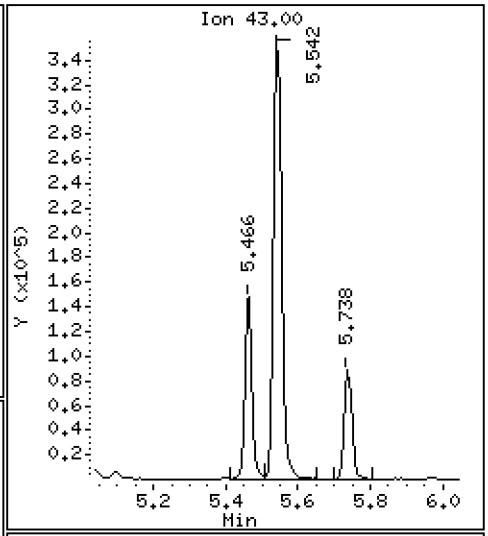
81 2-Hexanone Concentration: 101.710 ug/L

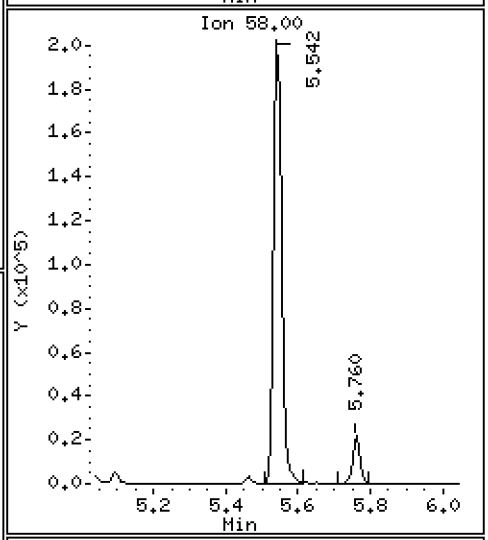


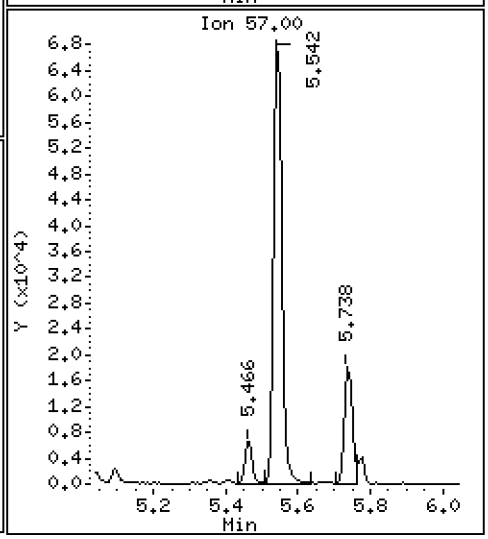












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 90

Date : 25-OCT-2016 03:26

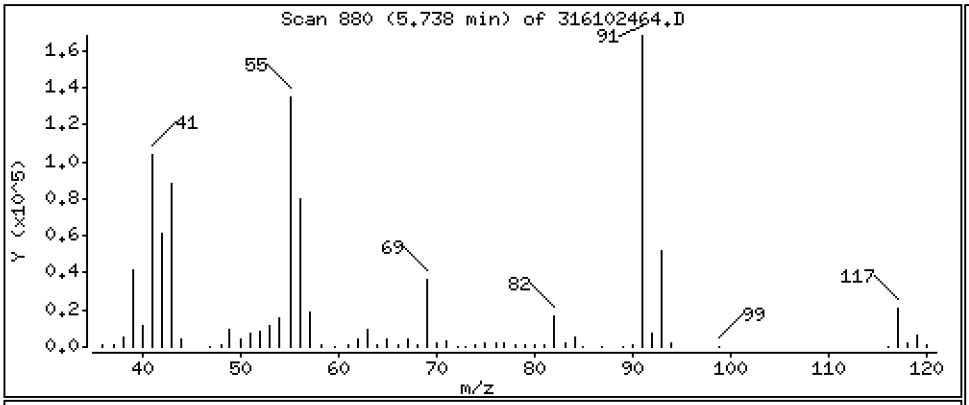
Client ID: LCS for HBN 174041 Instrument: ms03.i

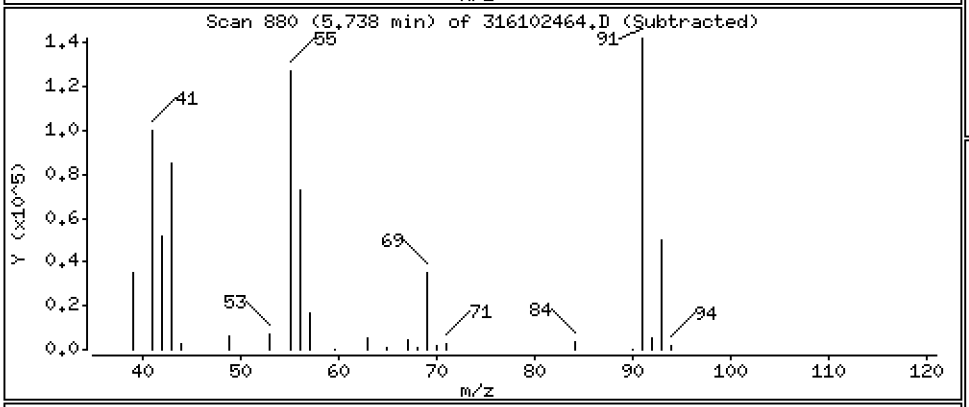
Sample Info: 2428716;;1;3;;LCS;1;

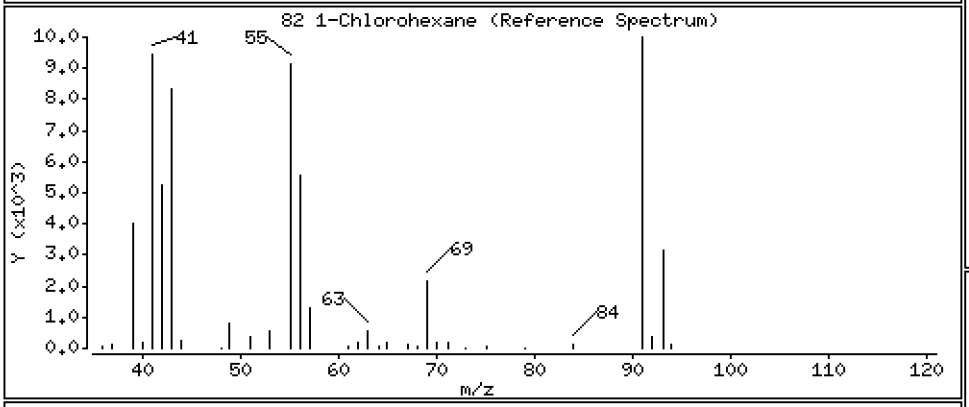
Purge Volume: 5.0 Operator: CJG

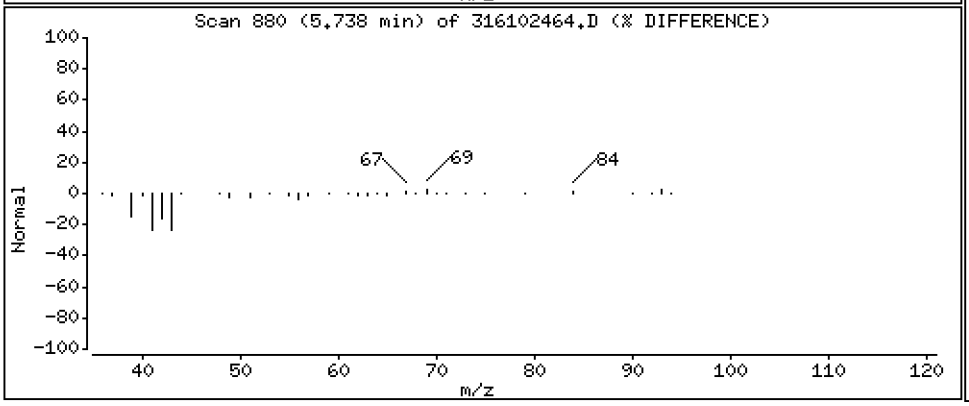
Column phase: DB-VRX Column diameter: 0.25

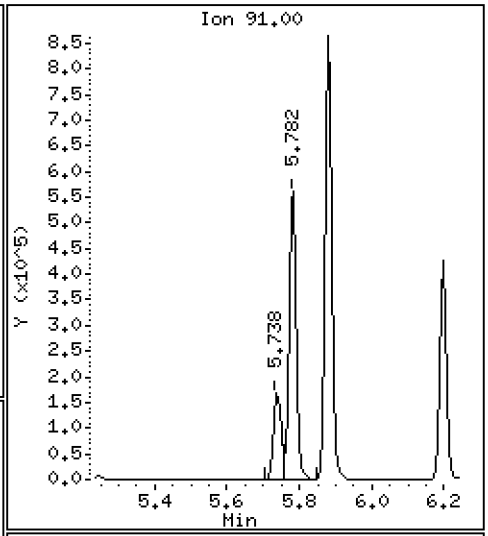
82 1-Chlorohexane Concentration: 18.6517 ug/L

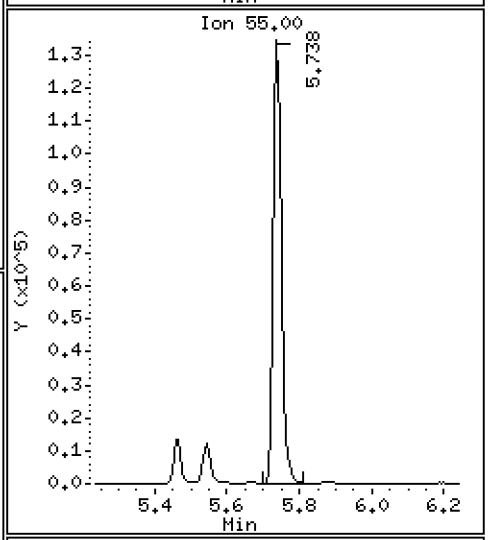


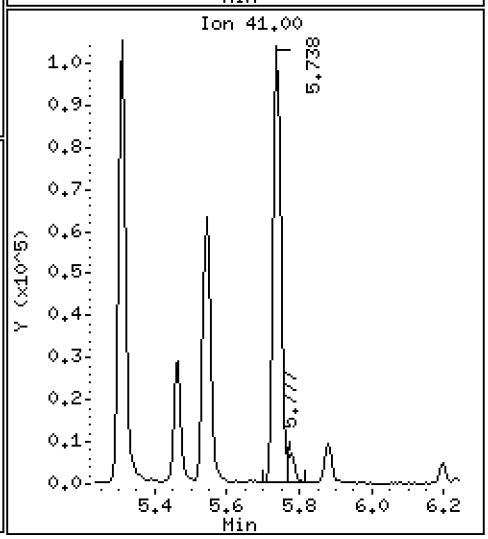












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 91

Date : 25-OCT-2016 03:26

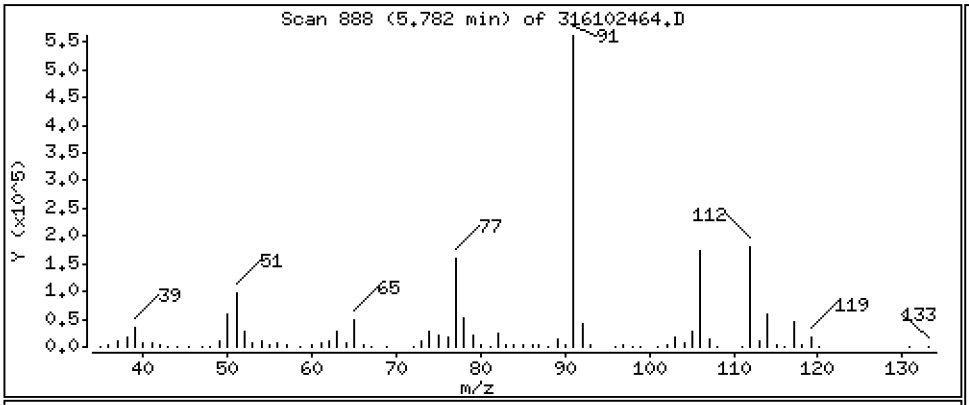
Client ID: LCS for HBN 174041 Instrument: ms03.i

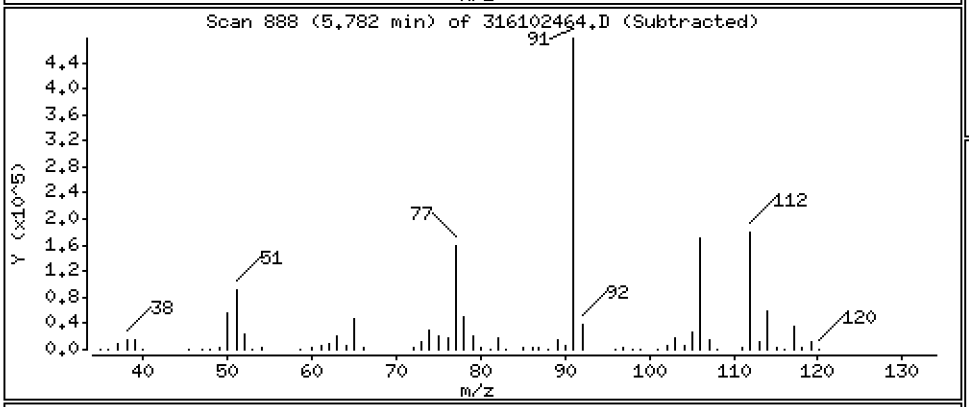
Sample Info: 2428716;;1;3;;LCS;1;

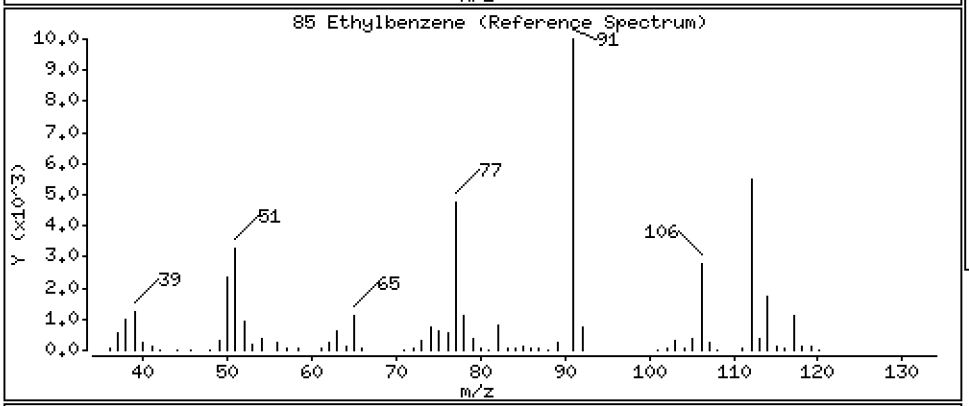
Purge Volume: 5.0 Operator: CJG

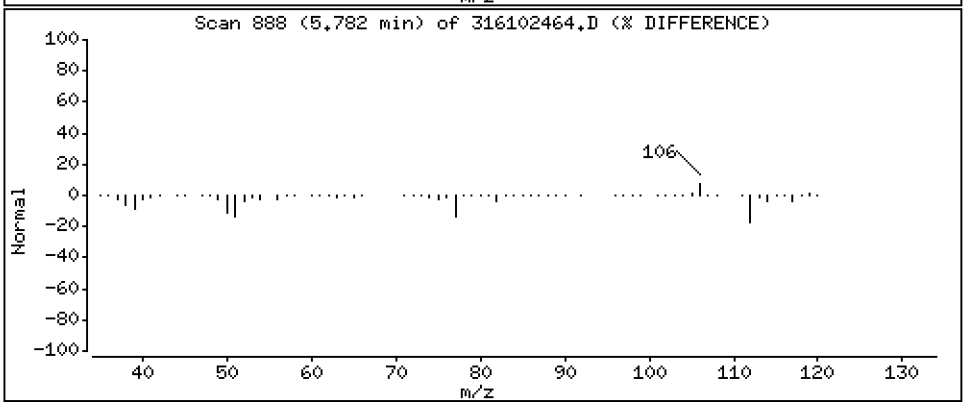
Column phase: DB-VRX Column diameter: 0.25

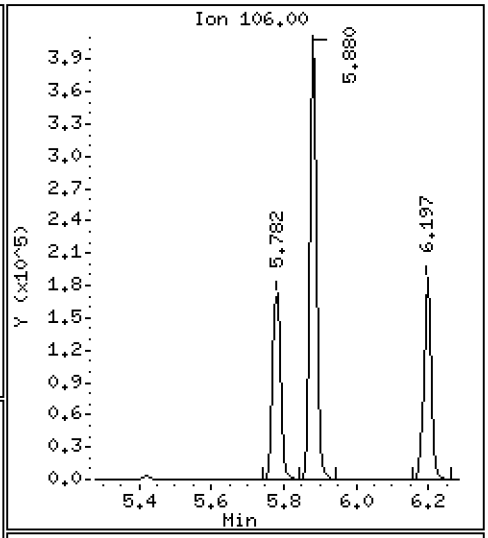
85 Ethylbenzene Concentration: 18.4977 ug/L

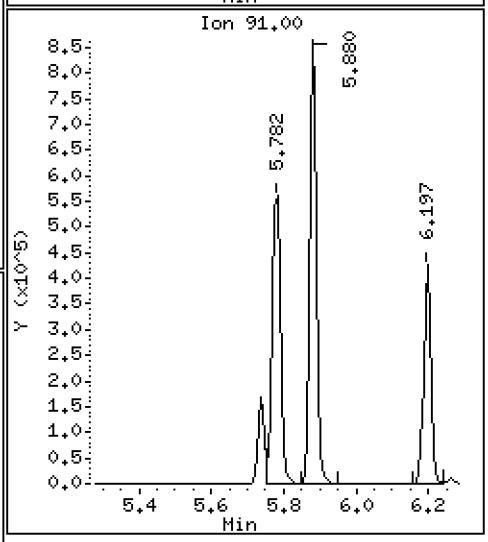












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 92

Date : 25-OCT-2016 03:26

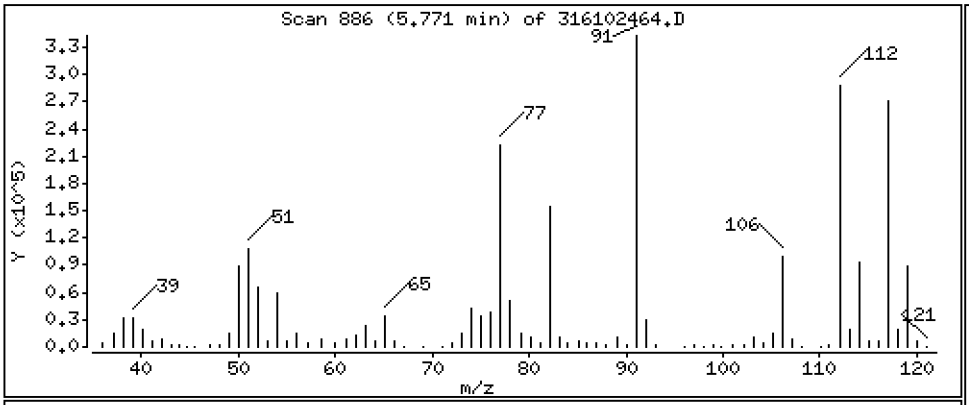
Client ID: LCS for HBN 174041 Instrument: ms03.i

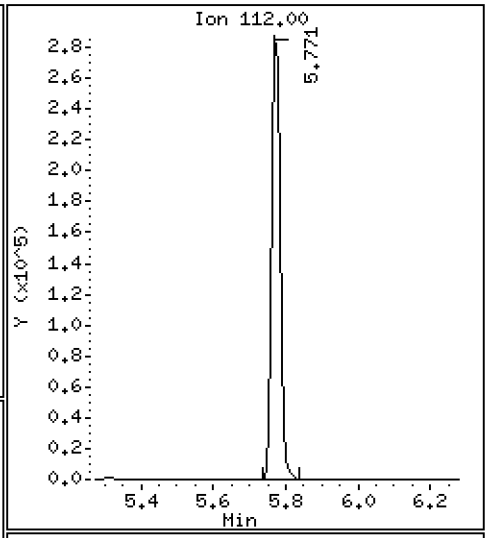
Sample Info: 2428716;;1;3;;LCS;1;

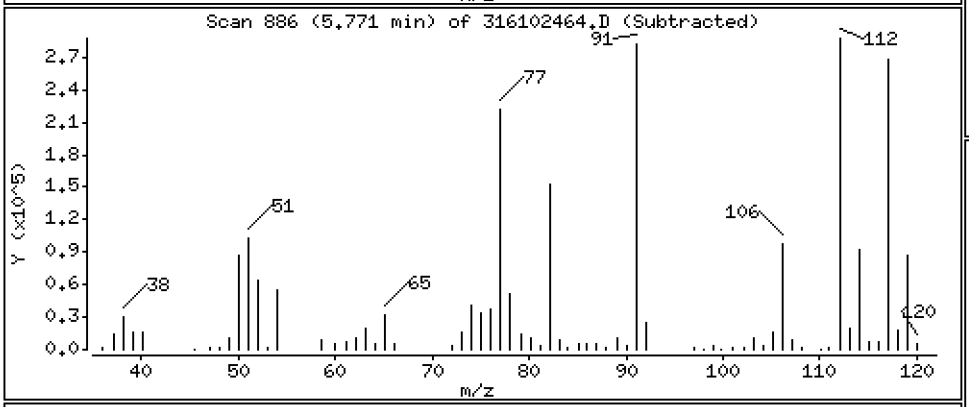
Purge Volume: 5.0 Operator: CJG

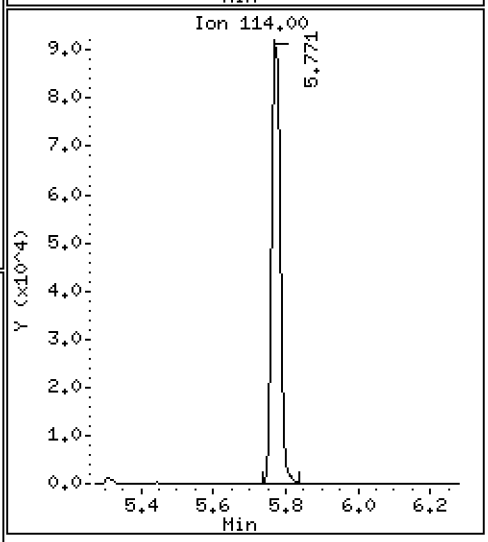
Column phase: DB-VRX Column diameter: 0.25

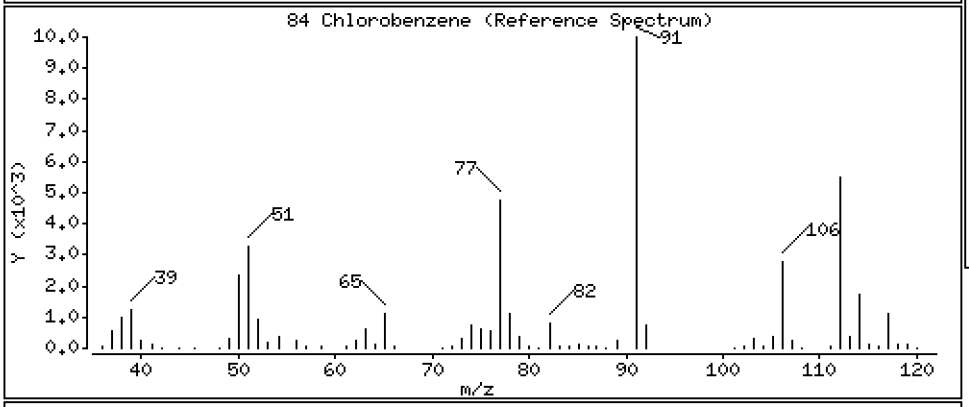
84 Chlorobenzene Concentration: 17.6014 ug/L

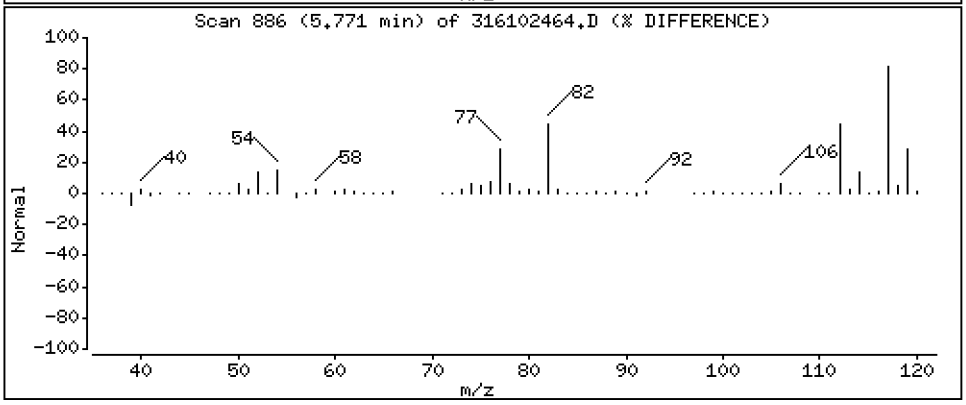












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 93

Date : 25-OCT-2016 03:26

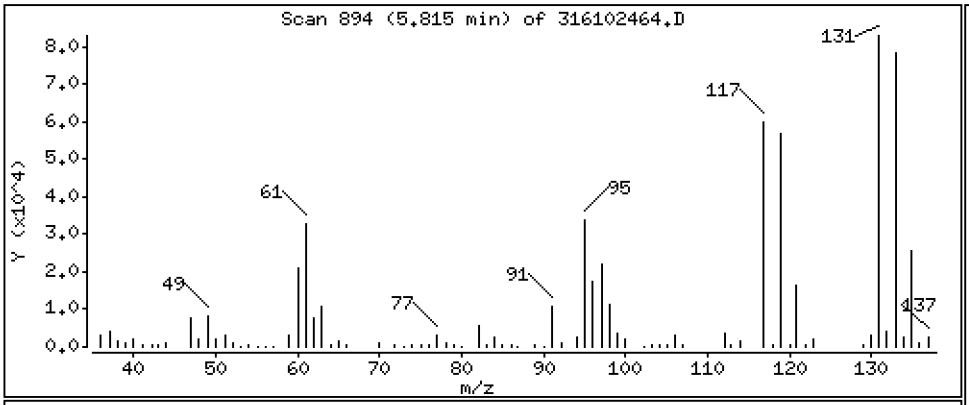
Client ID: LCS for HBN 174041 Instrument: ms03.i

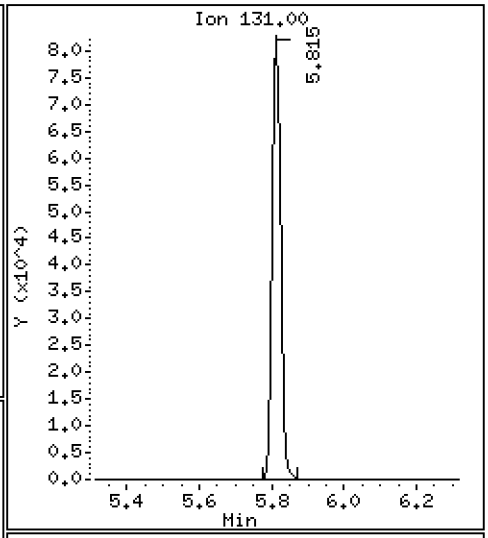
Sample Info: 2428716;;1;3;;LCS;1;

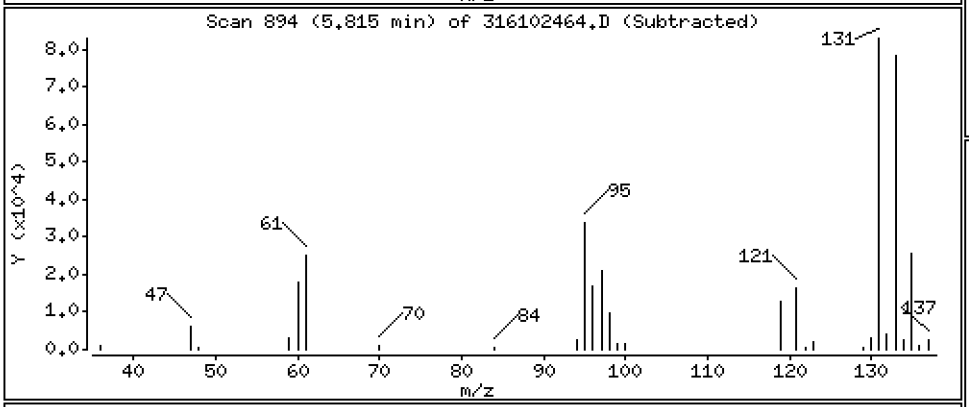
Purge Volume: 5.0 Operator: CJG

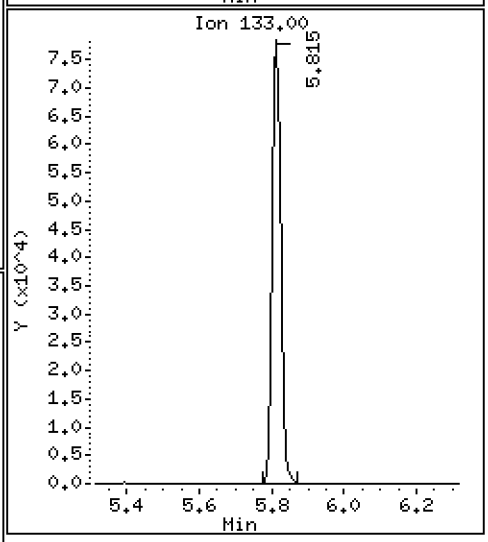
Column phase: DB-VRX Column diameter: 0.25

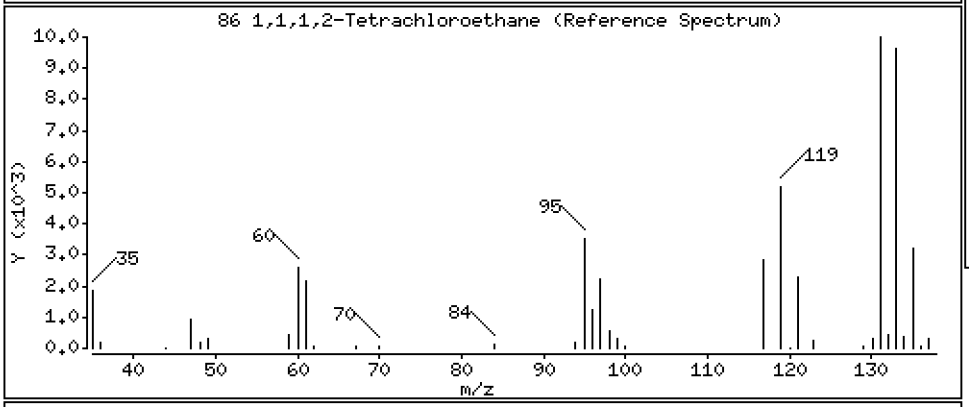
86 1,1,1,2-Tetrachloroethane Concentration: 19.5070 ug/L

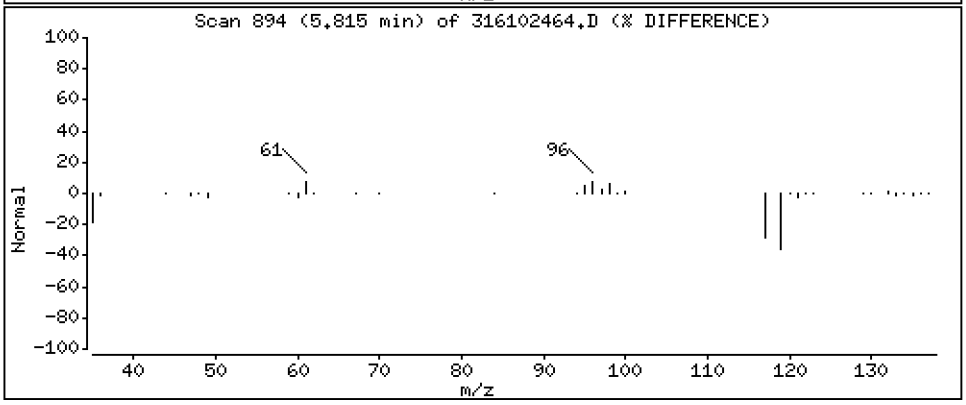












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 94

Date : 25-OCT-2016 03:26

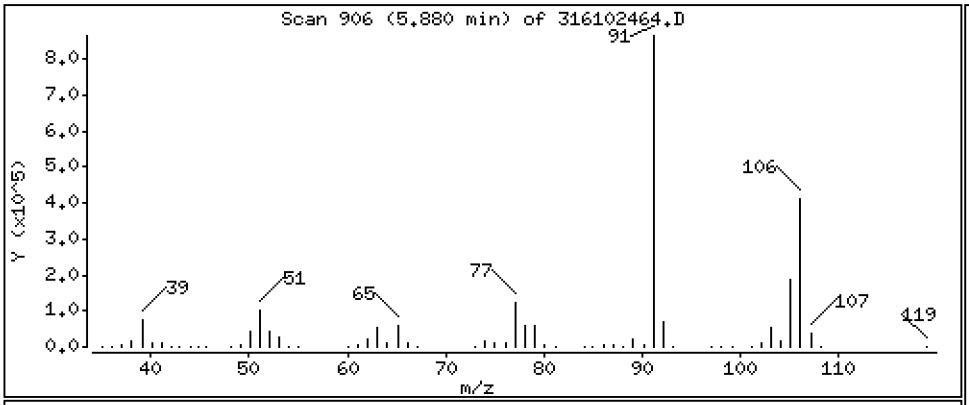
Client ID: LCS for HBN 174041 Instrument: ms03.i

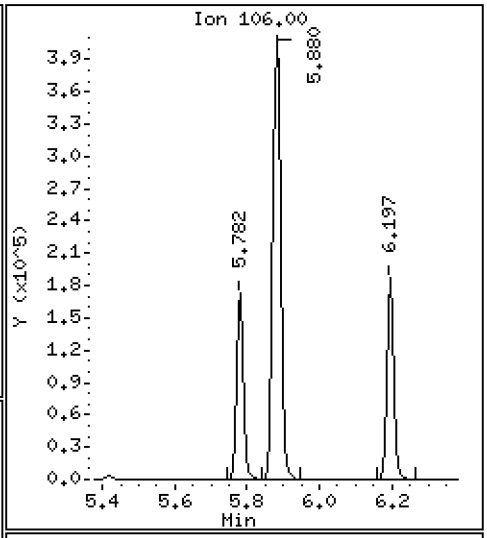
Sample Info: 2428716;;1;3;;LCS;1;

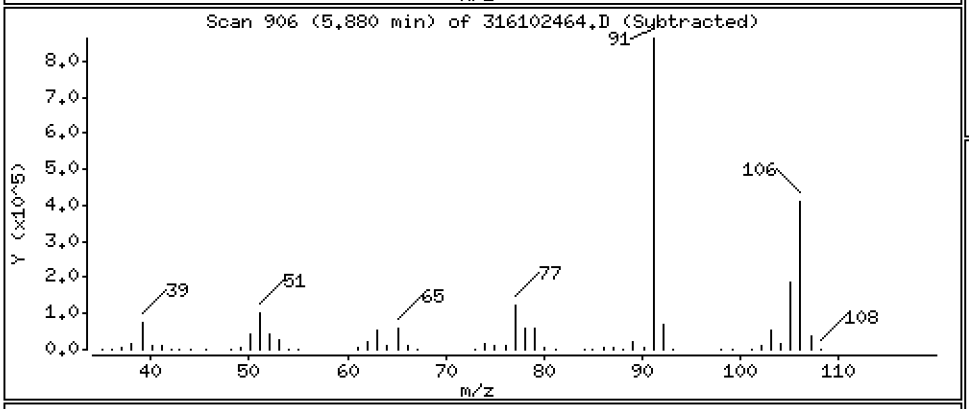
Purge Volume: 5.0 Operator: CJG

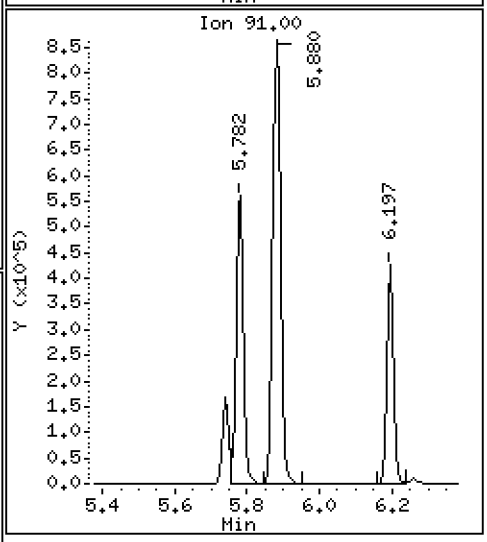
Column phase: DB-VRX Column diameter: 0.25

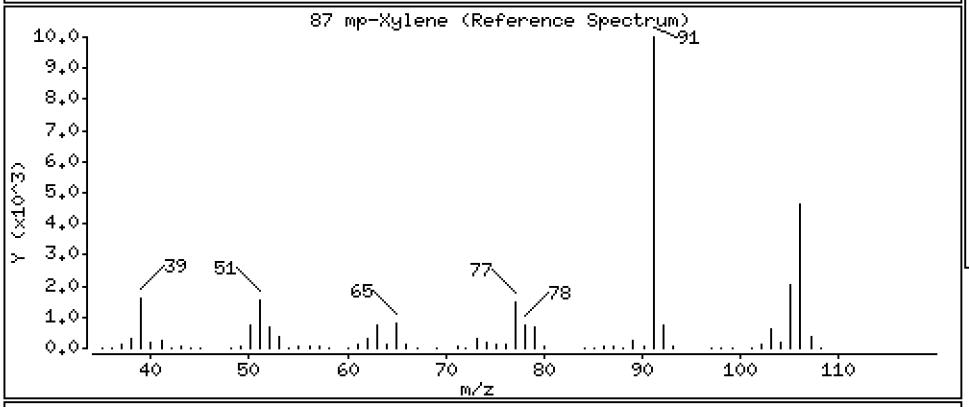
87 mp-Xylene Concentration: 37.2463 ug/L

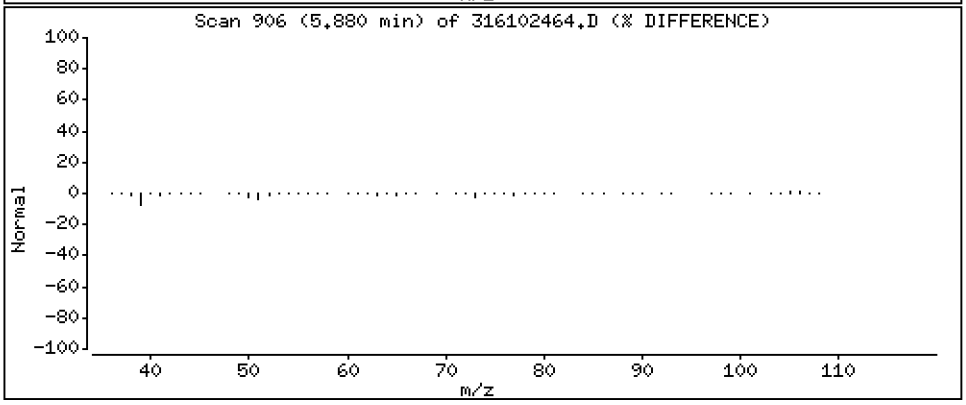












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 95

Date : 25-OCT-2016 03:26

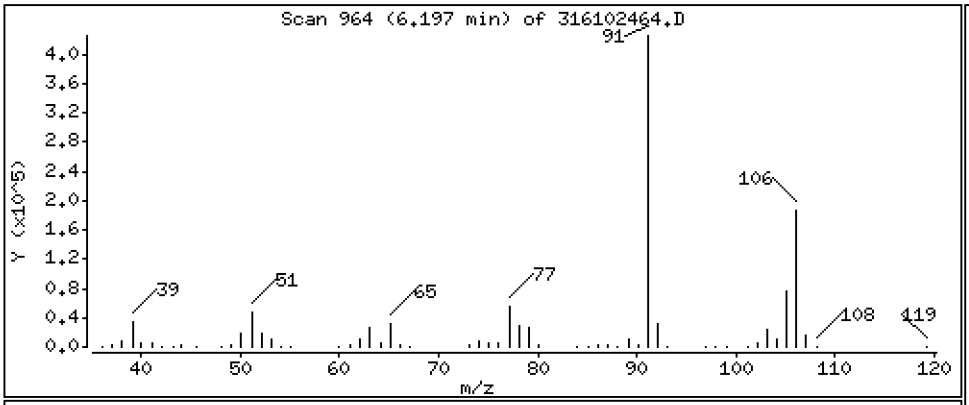
Client ID: LCS for HBN 174041 Instrument: ms03.i

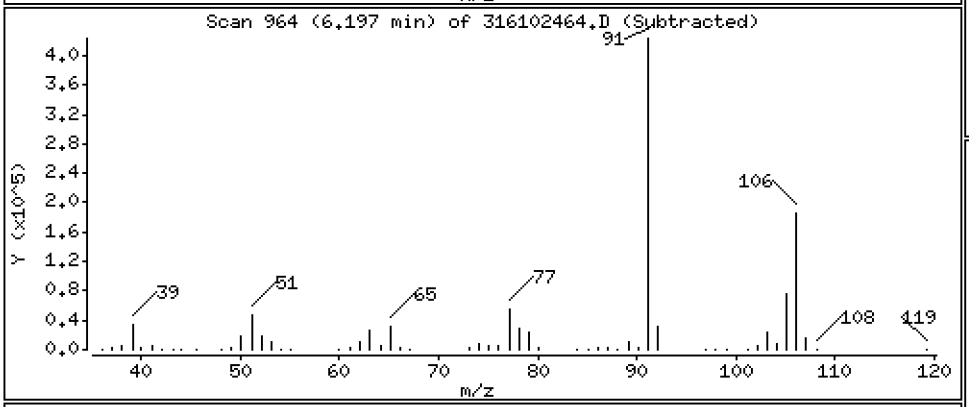
Sample Info: 2428716;;1;3;;LCS;1;

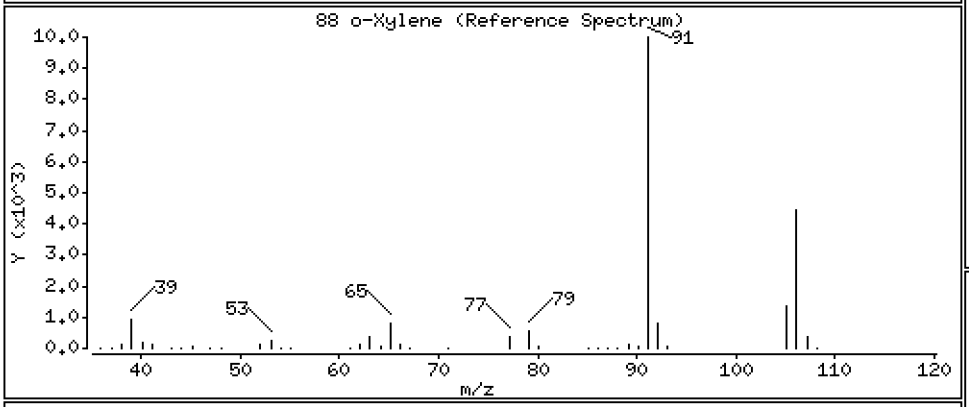
Purge Volume: 5.0 Operator: CJG

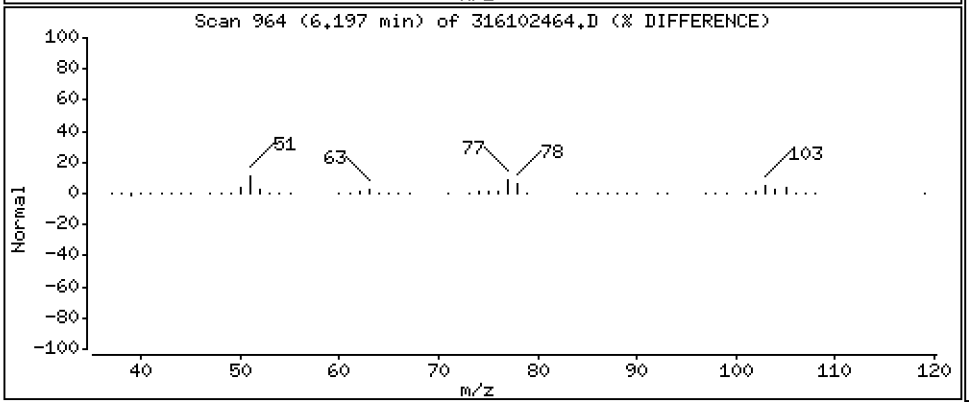
Column phase: DB-VRX Column diameter: 0.25

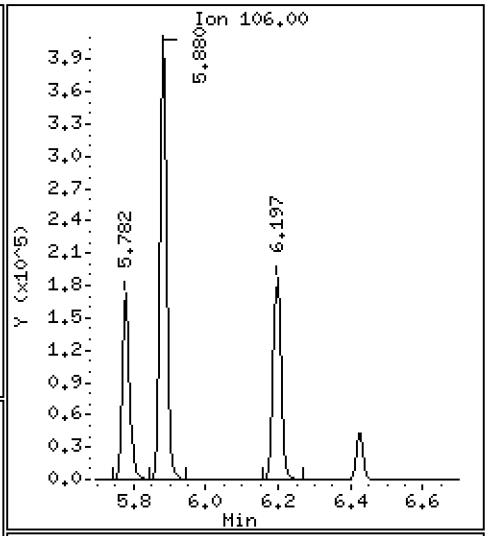
88 o-Xylene Concentration: 19.1204 ug/L

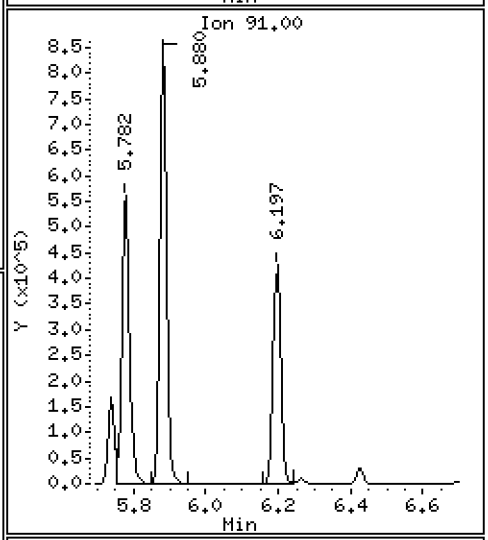


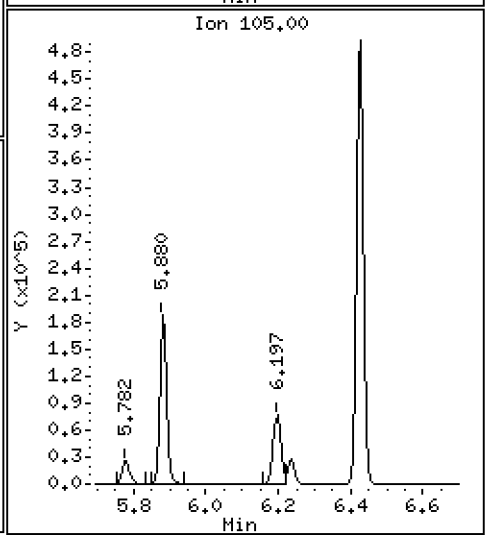












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 96

Date : 25-OCT-2016 03:26

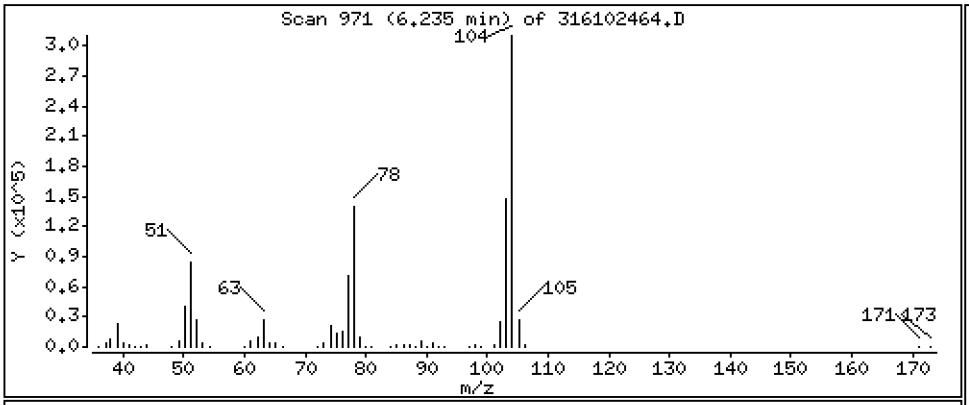
Client ID: LCS for HBN 174041 Instrument: ms03.i

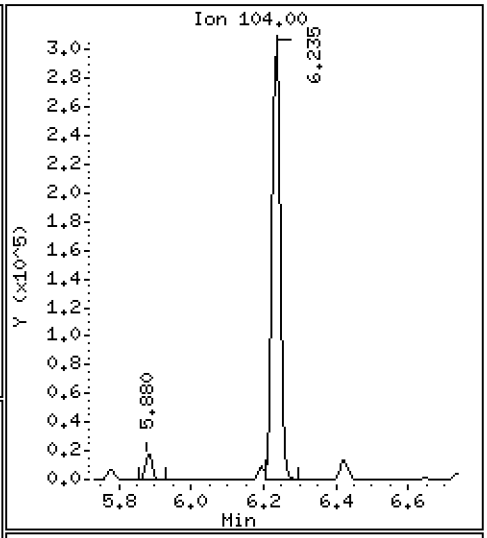
Sample Info: 2428716;;1;3;;LCS;1;

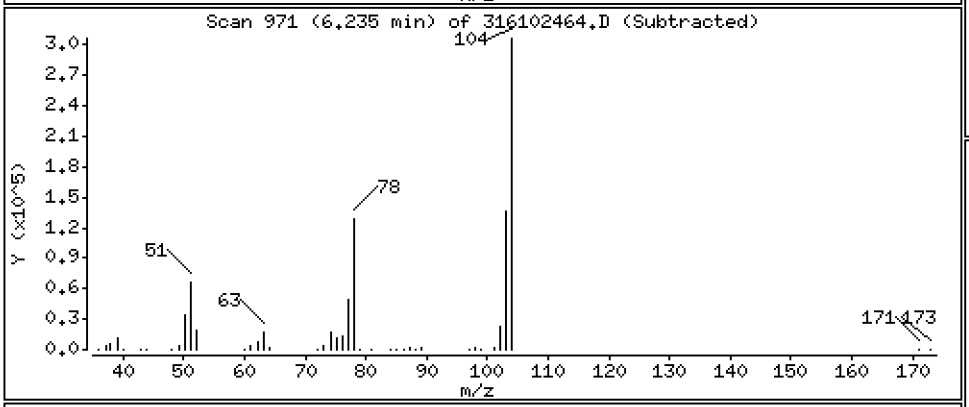
Purge Volume: 5.0 Operator: CJG

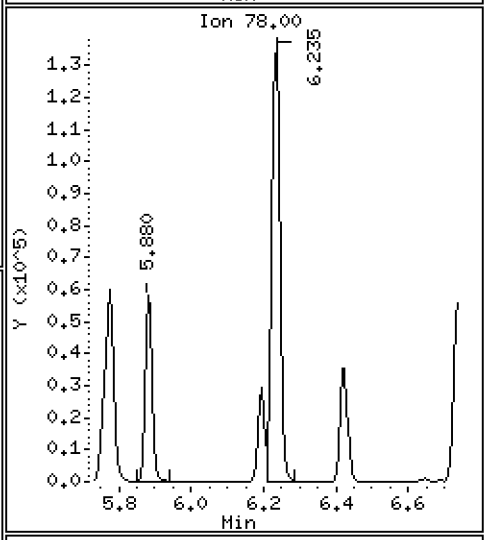
Column phase: DB-VRX Column diameter: 0.25

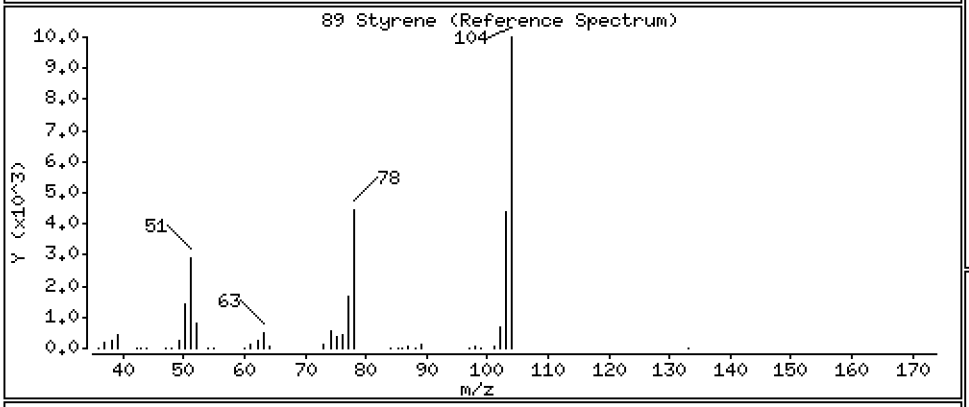
89 Styrene Concentration: 19.6966 ug/L

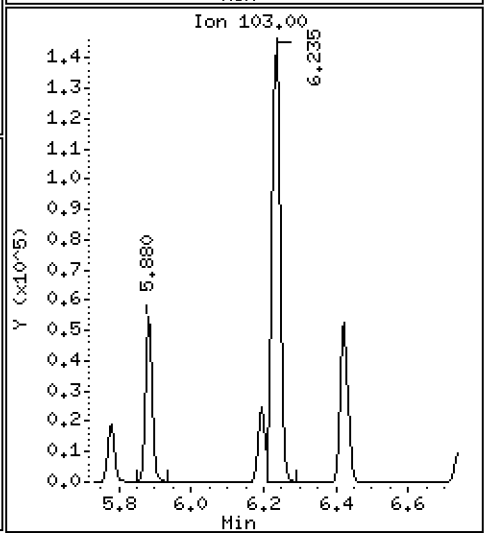


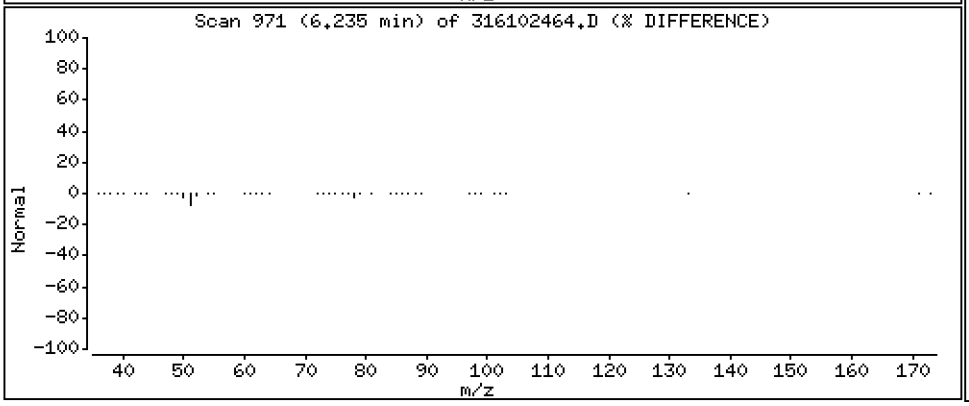












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 97

Date : 25-OCT-2016 03:26

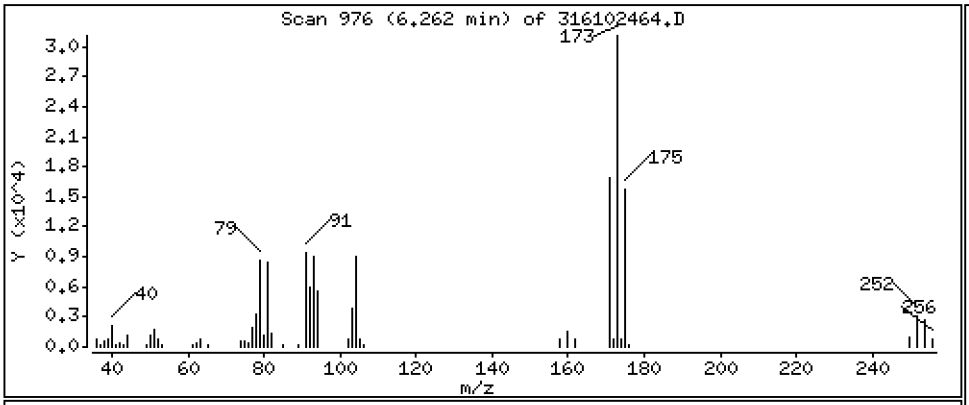
Client ID: LCS for HBN 174041 Instrument: ms03.i

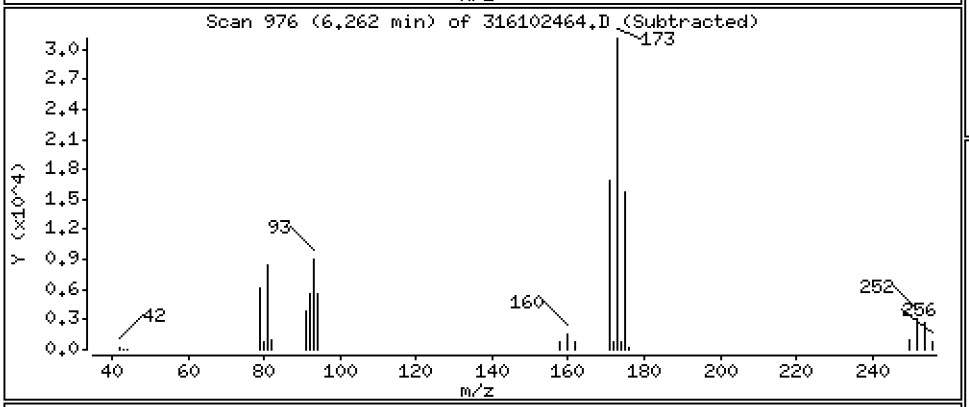
Sample Info: 2428716;;1;3;;LCS;1;

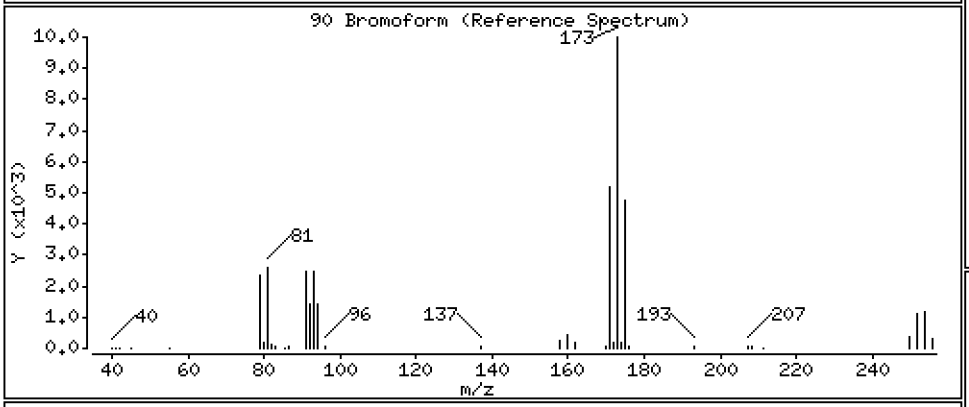
Purge Volume: 5.0 Operator: CJG

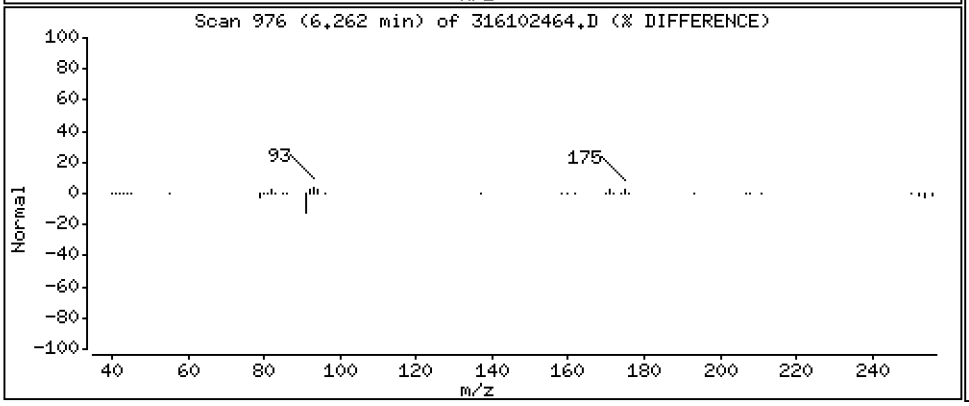
Column phase: DB-VRX Column diameter: 0.25

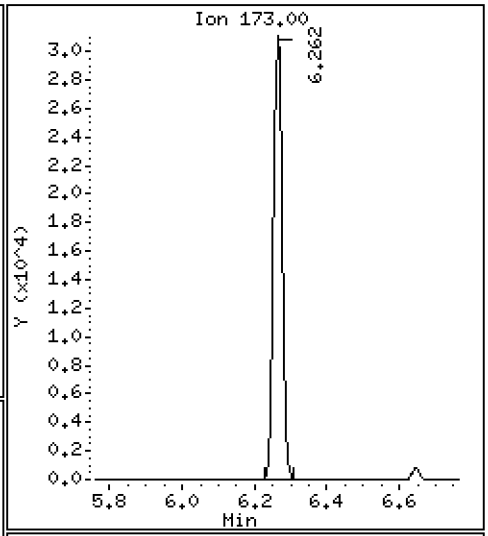
90 Bromoform Concentration: 17.4106 ug/L

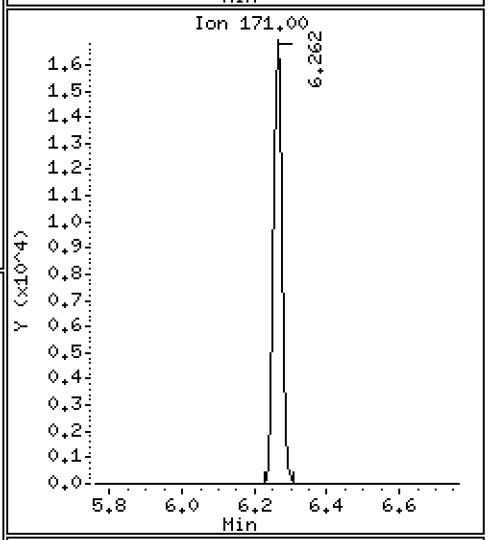


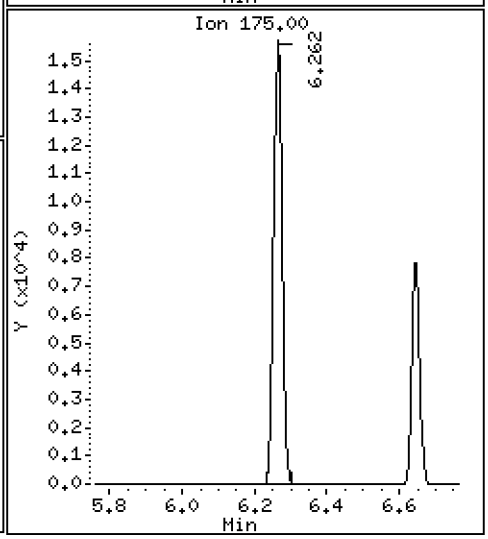












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 98

Date : 25-OCT-2016 03:26

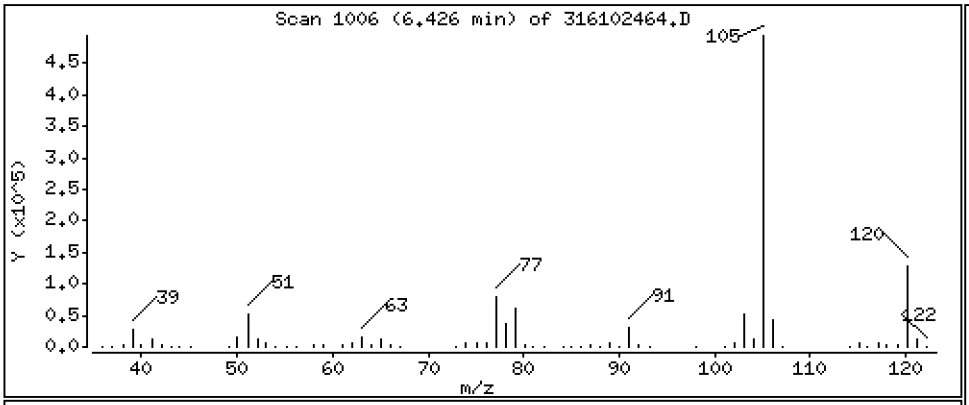
Client ID: LCS for HBN 174041 Instrument: ms03.i

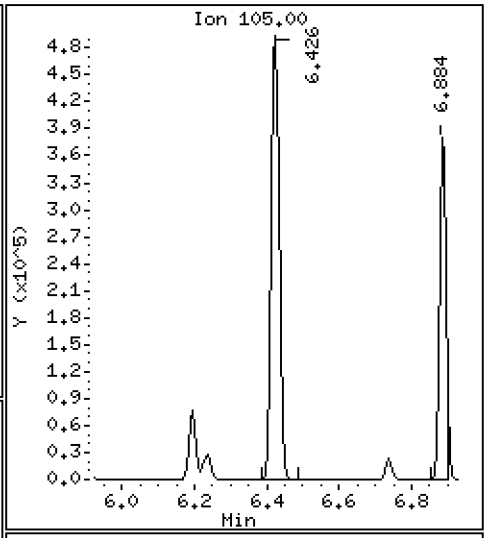
Sample Info: 2428716;;1;3;;LCS;1;

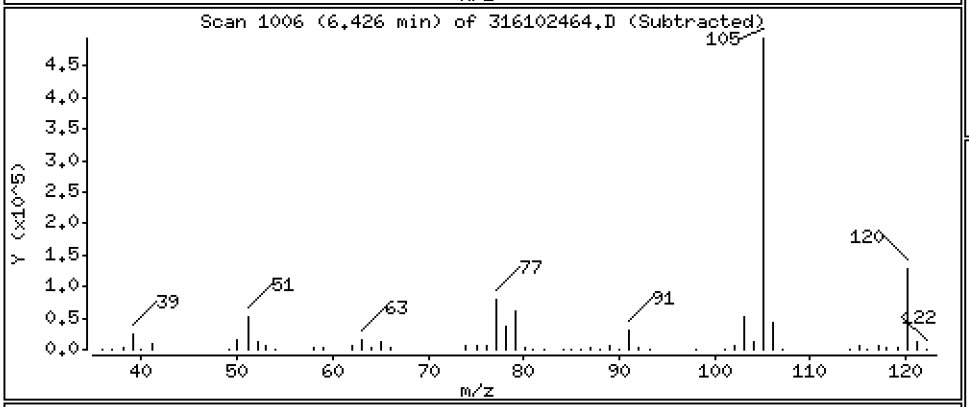
Purge Volume: 5.0 Operator: CJG

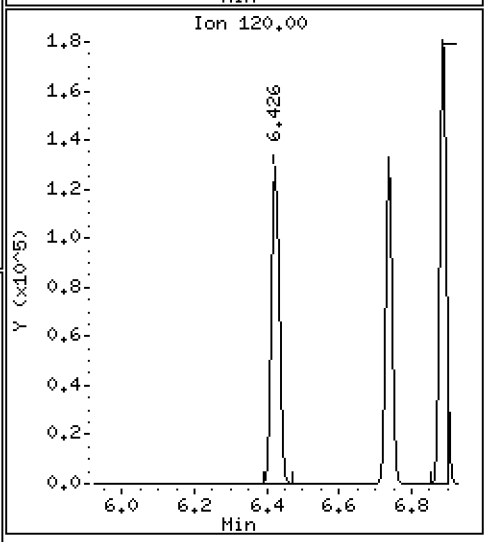
Column phase: DB-VRX Column diameter: 0.25

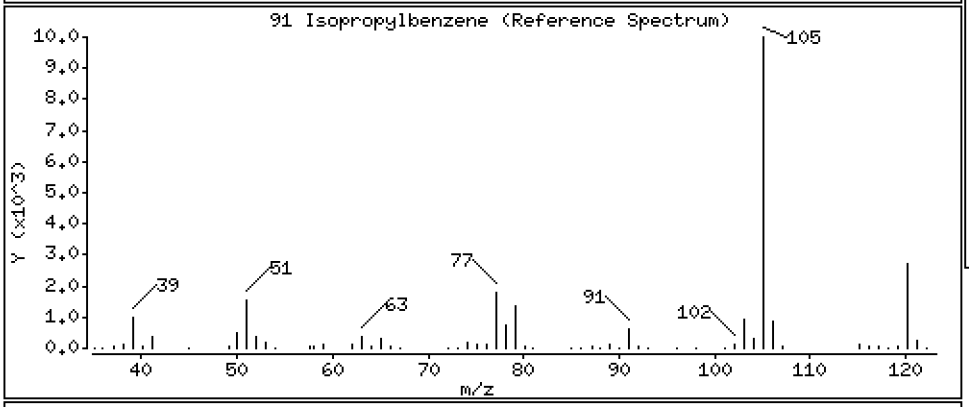
91 Isopropylbenzene Concentration: 19.4952 ug/L

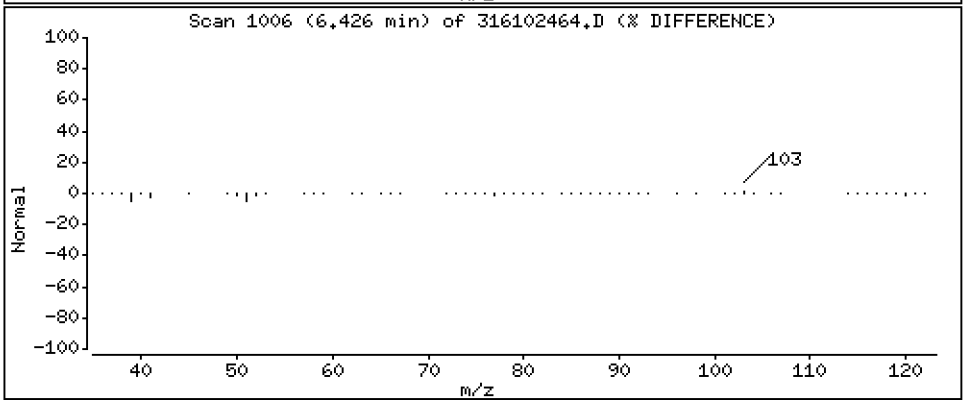












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 99

Date : 25-OCT-2016 03:26

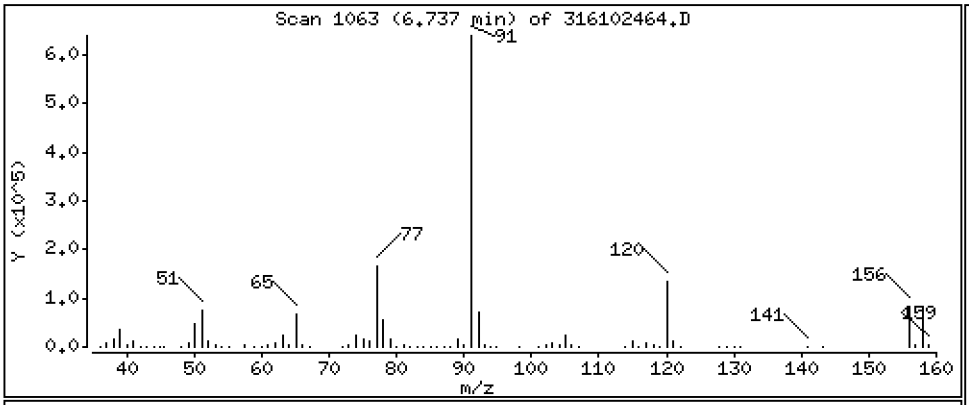
Client ID: LCS for HBN 174041 Instrument: ms03.i

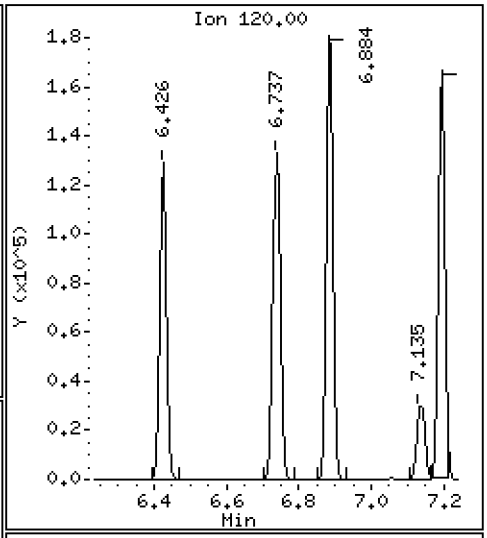
Sample Info: 2428716;;1;3;;LCS;1;

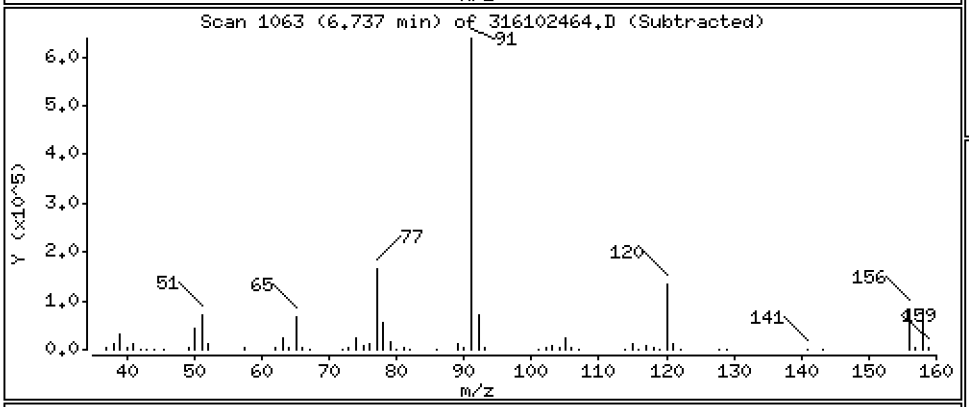
Purge Volume: 5.0 Operator: CJG

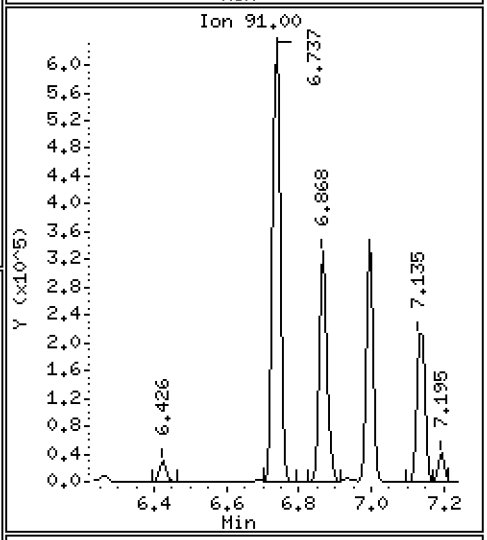
Column phase: DB-VRX Column diameter: 0.25

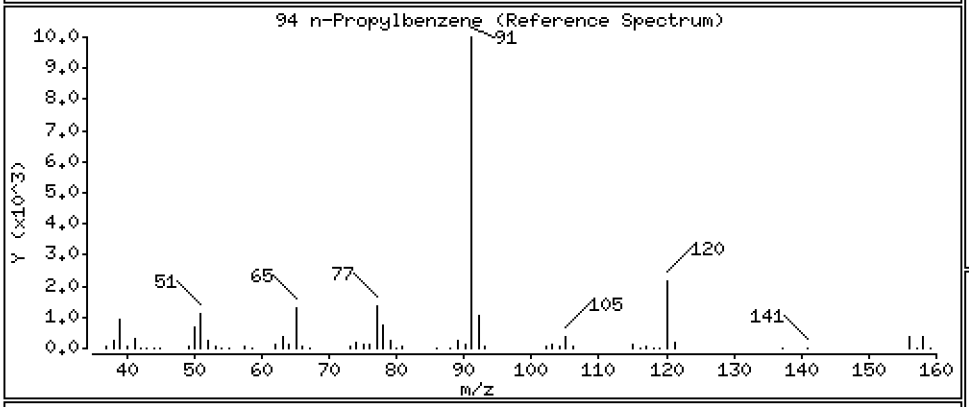
94 n-Propylbenzene Concentration: 19.6143 ug/L

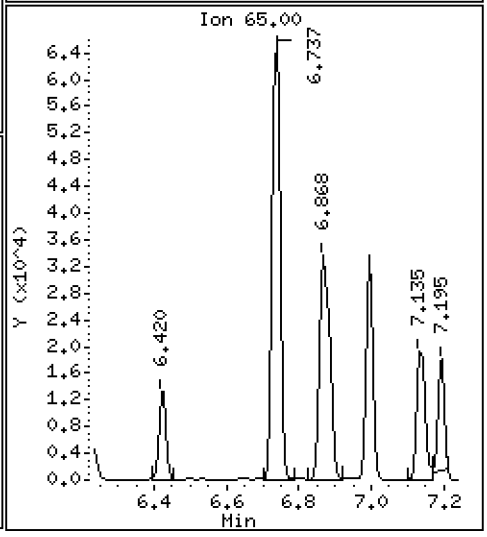


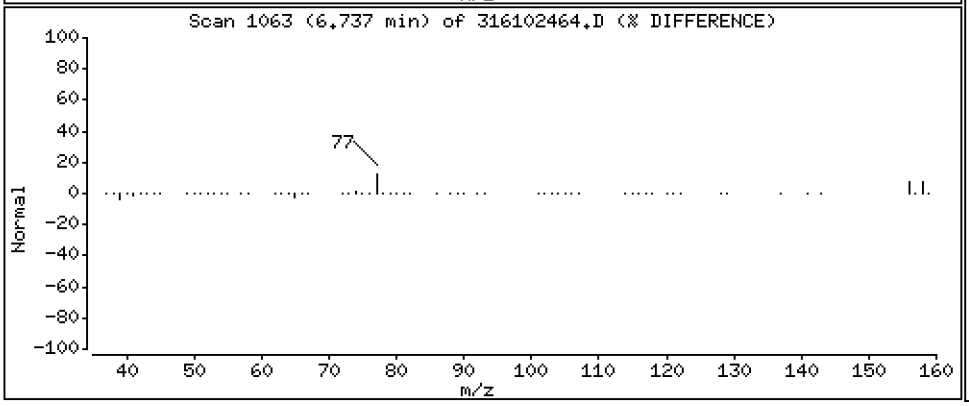












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 100

Date : 25-OCT-2016 03:26

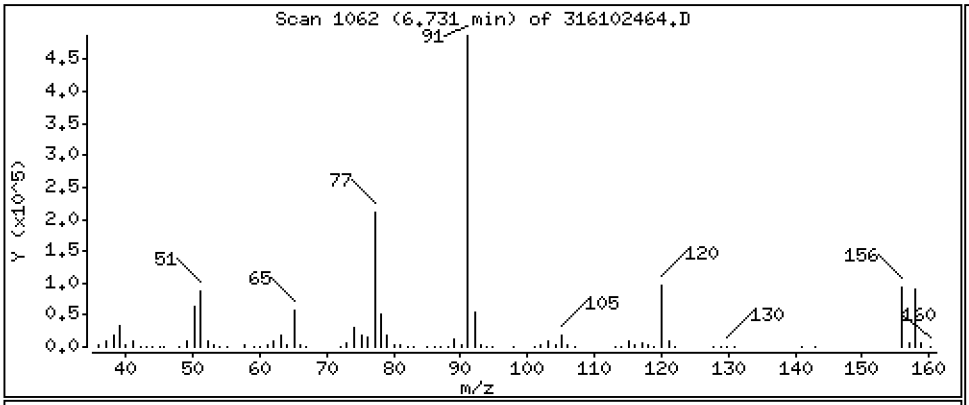
Client ID: LCS for HBN 174041 Instrument: ms03.i

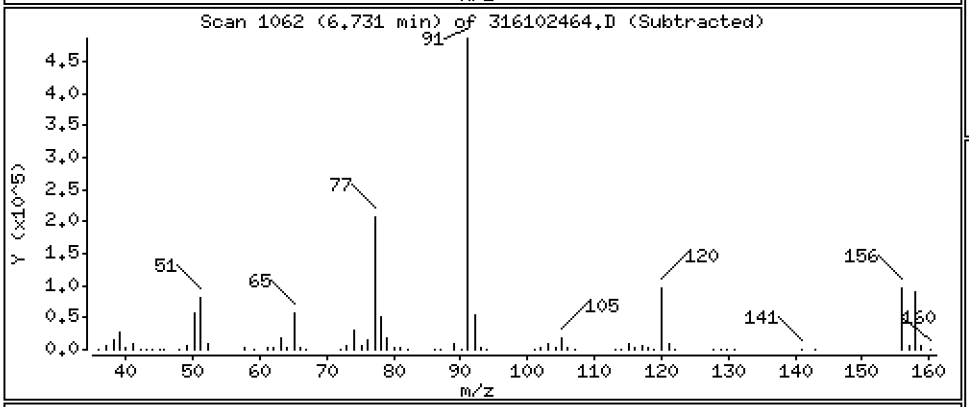
Sample Info: 2428716;;1;3;;LCS;1;

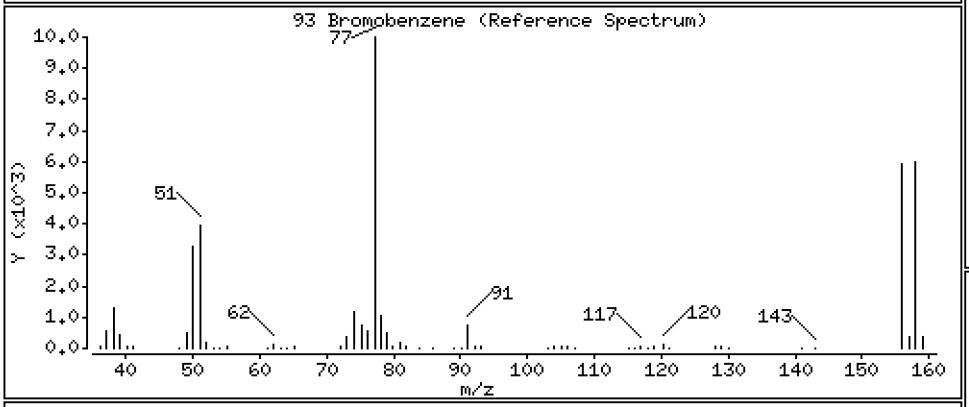
Purge Volume: 5.0 Operator: CJG

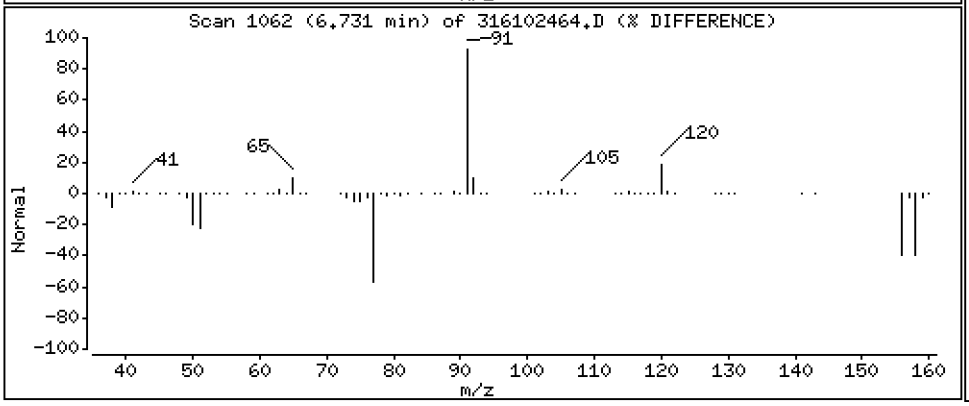
Column phase: DB-VRX Column diameter: 0.25

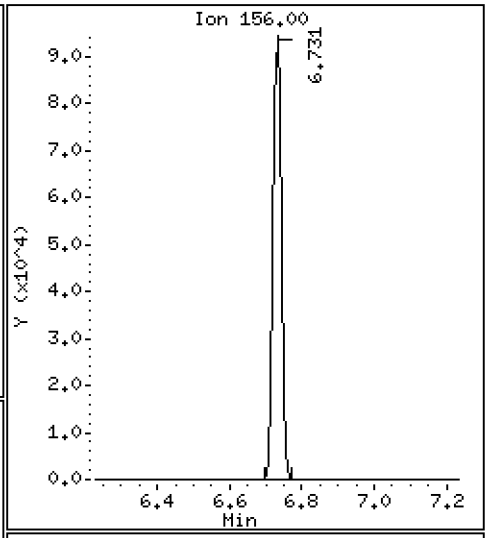
93 Bromobenzene Concentration: 18.3826 ug/L

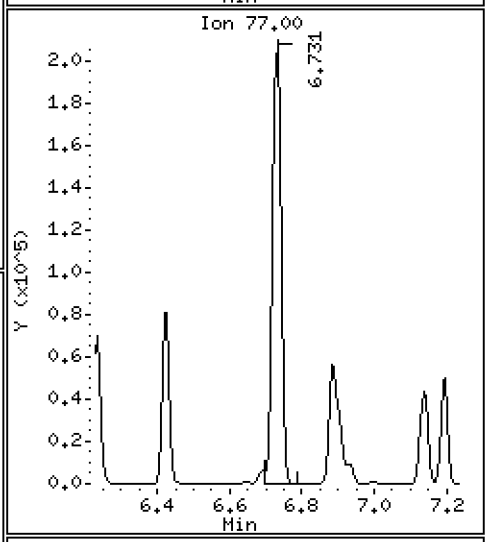


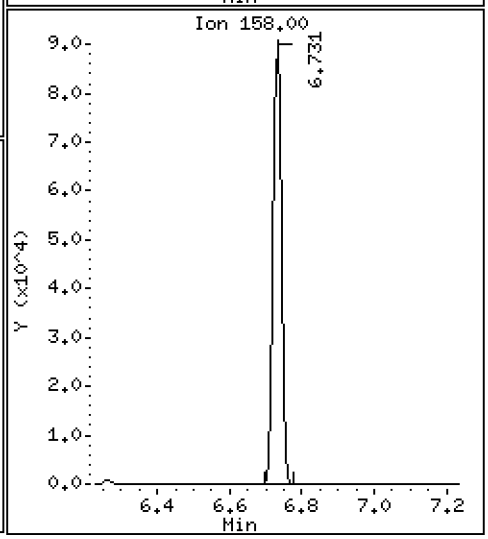












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 101

Date : 25-OCT-2016 03:26

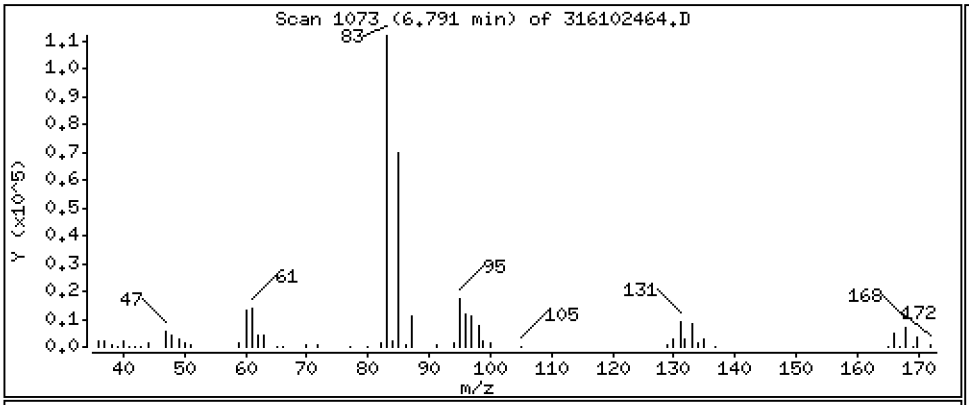
Client ID: LCS for HBN 174041 Instrument: ms03.i

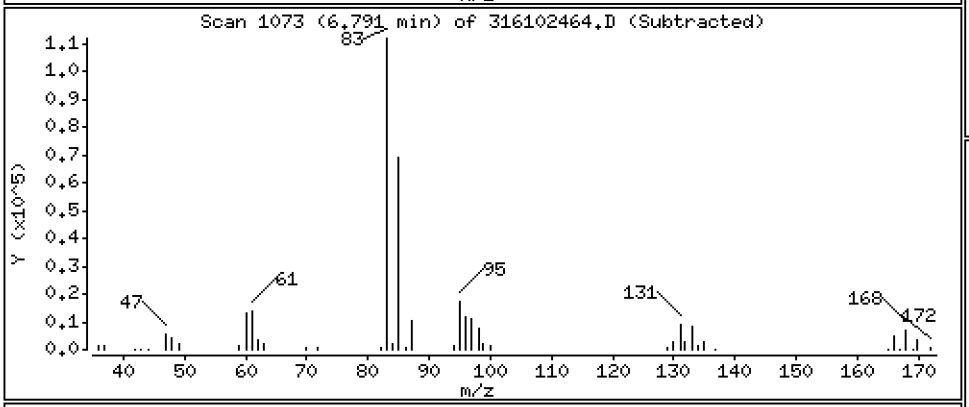
Sample Info: 2428716;;1;3;;LCS;1;

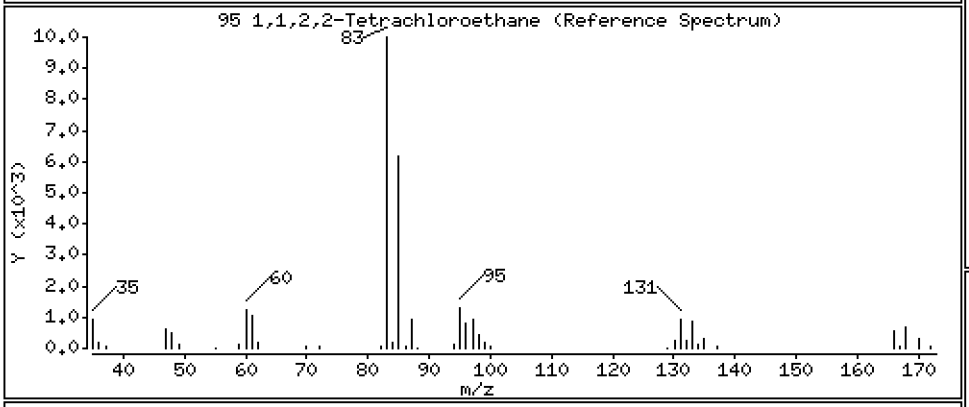
Purge Volume: 5.0 Operator: CJG

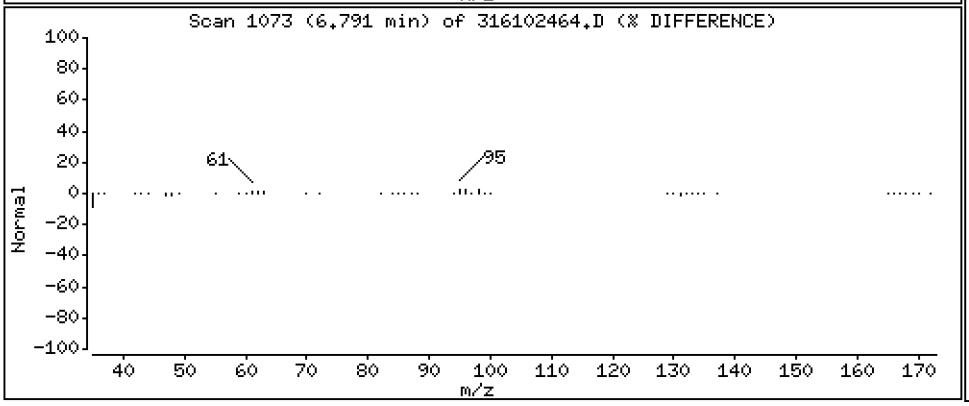
Column phase: DB-VRX Column diameter: 0.25

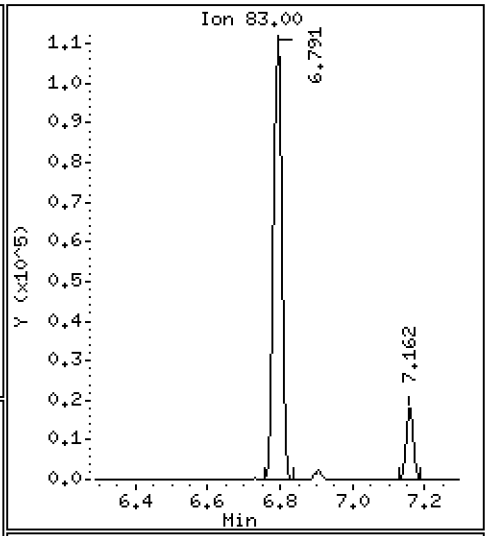
95 1,1,2,2-Tetrachloroethane Concentration: 18.5747 ug/L

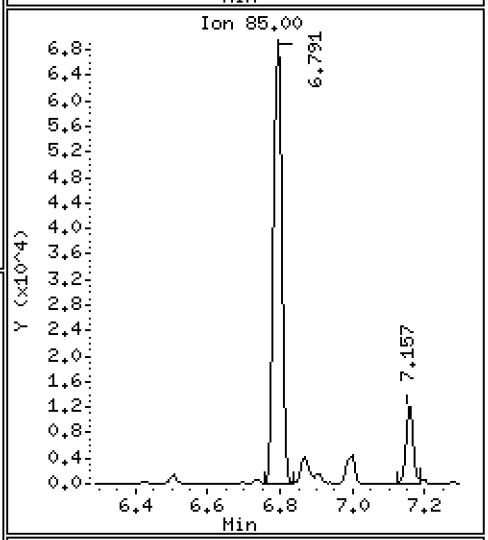


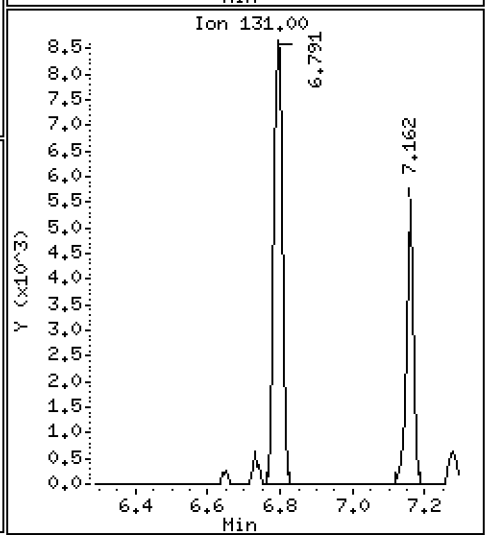












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 102

Date : 25-OCT-2016 03:26

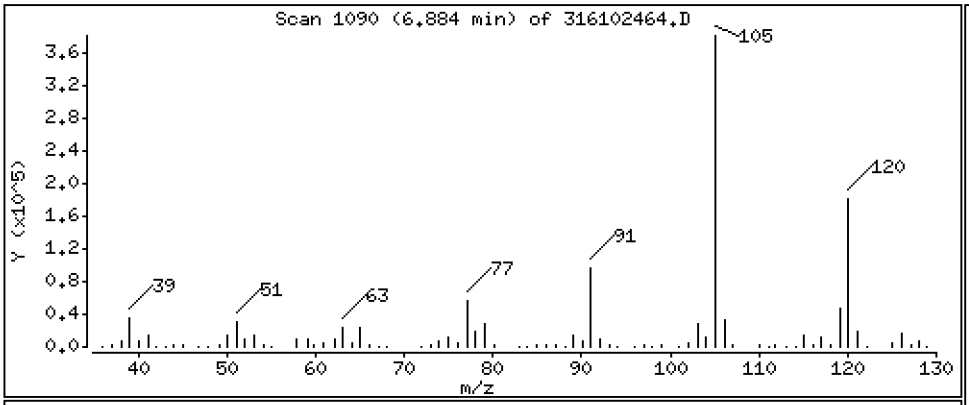
Client ID: LCS for HBN 174041 Instrument: ms03.i

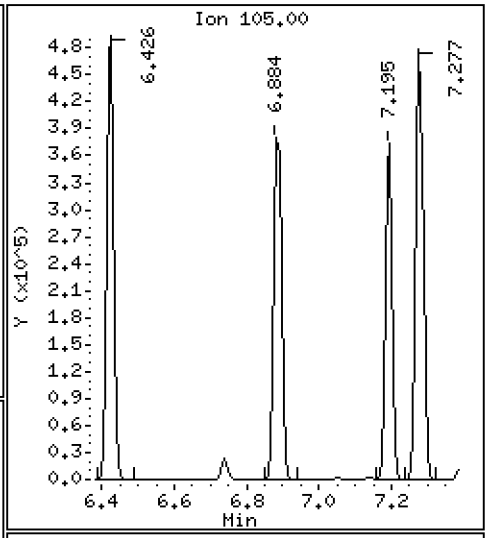
Sample Info: 2428716;;1;3;;LCS;1;

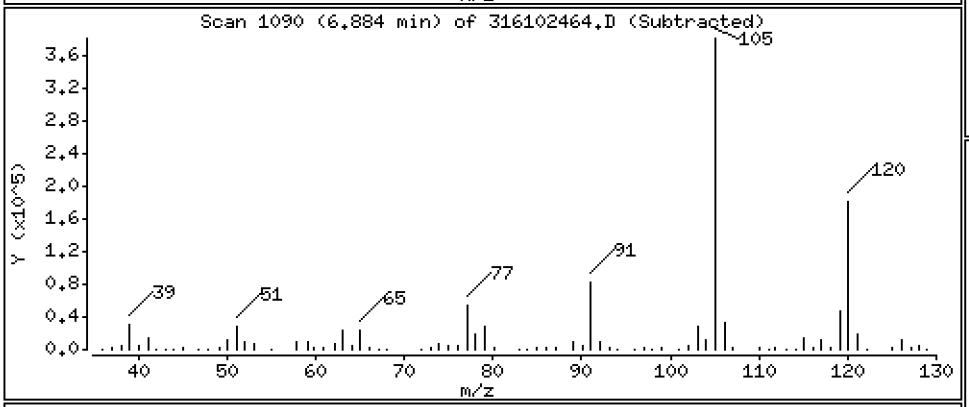
Purge Volume: 5.0 Operator: CJG

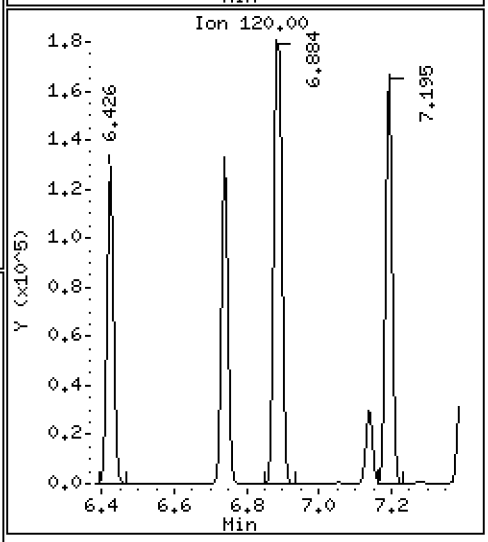
Column phase: DB-VRX Column diameter: 0.25

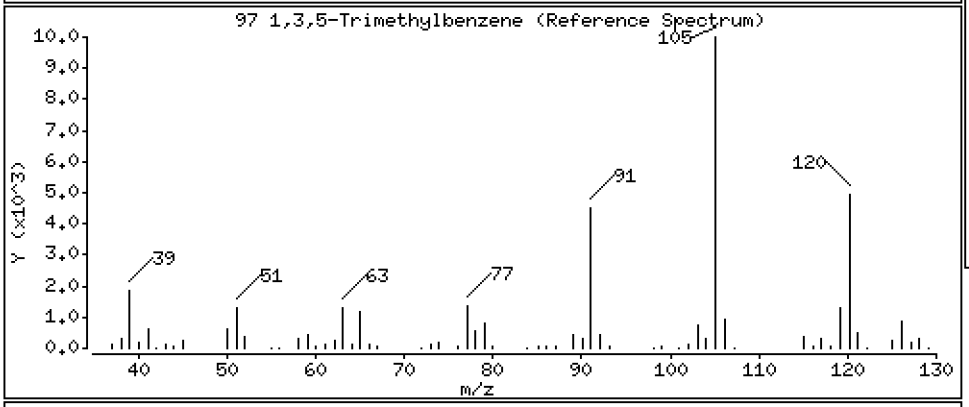
97 1,3,5-Trimethylbenzene Concentration: 19.9697 ug/L

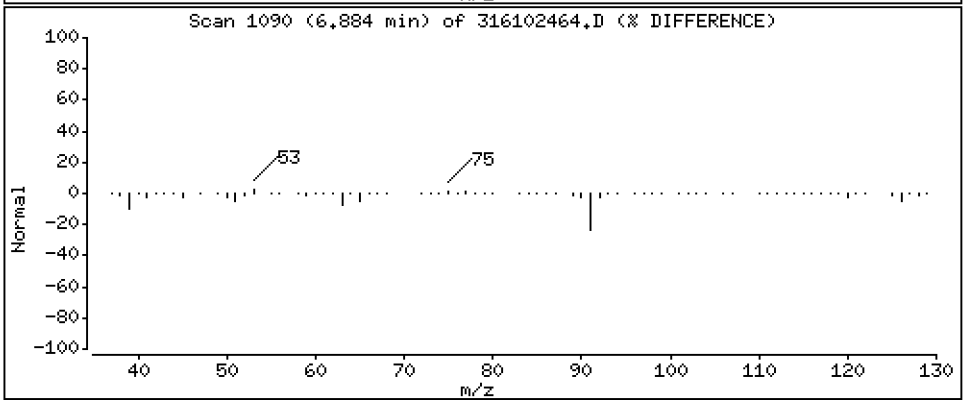












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 103

Date : 25-OCT-2016 03:26

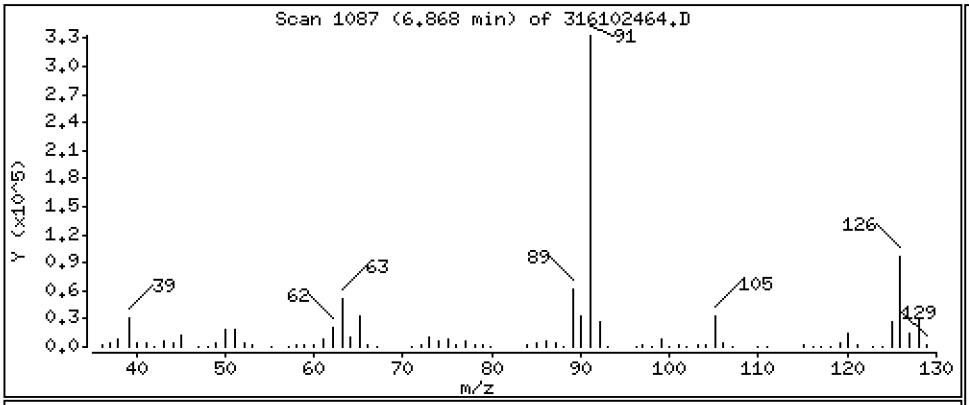
Client ID: LCS for HBN 174041 Instrument: ms03.i

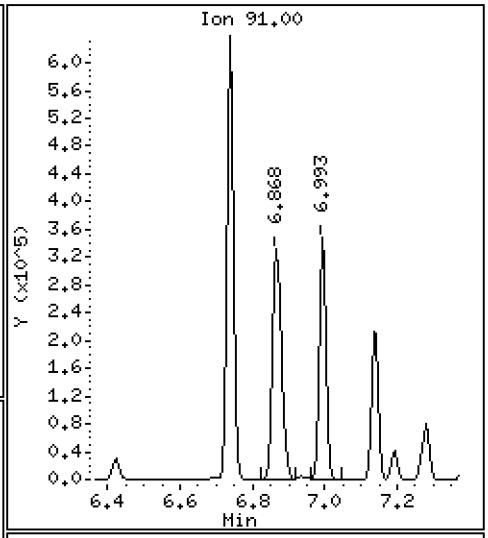
Sample Info: 2428716;;1;3;;LCS;1;

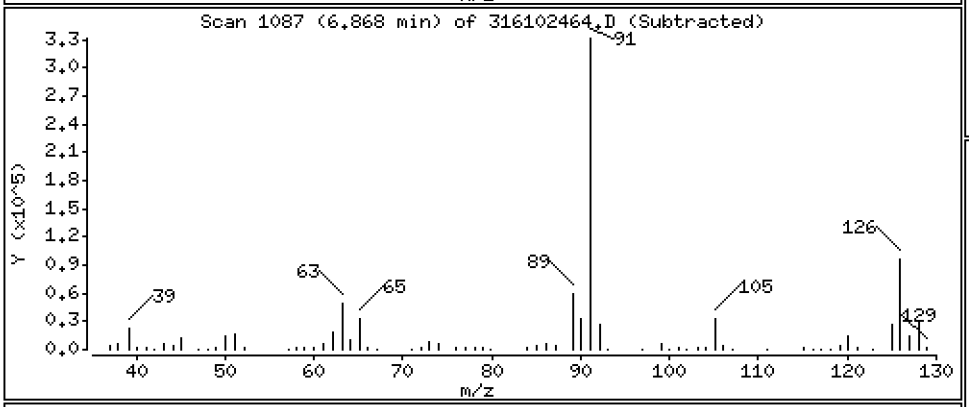
Purge Volume: 5.0 Operator: CJG

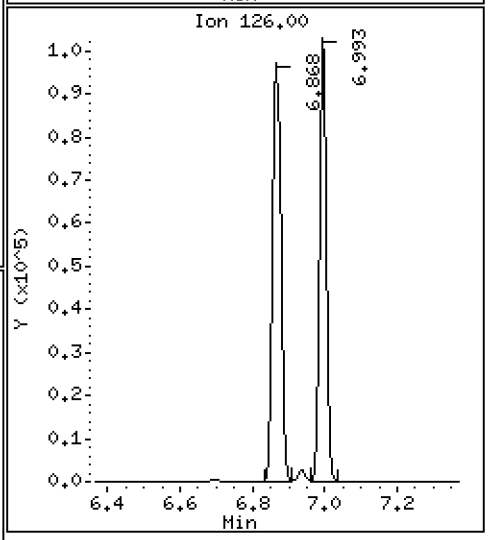
Column phase: DB-VRX Column diameter: 0.25

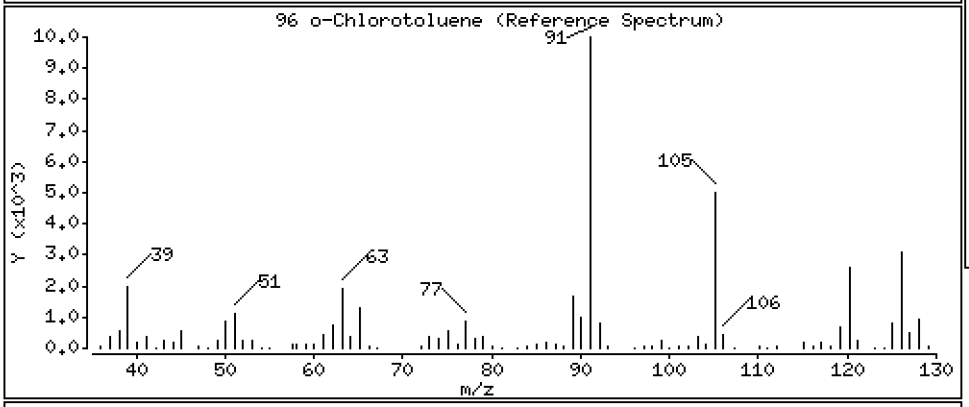
96 o-Chlorotoluene Concentration: 18.8257 ug/L

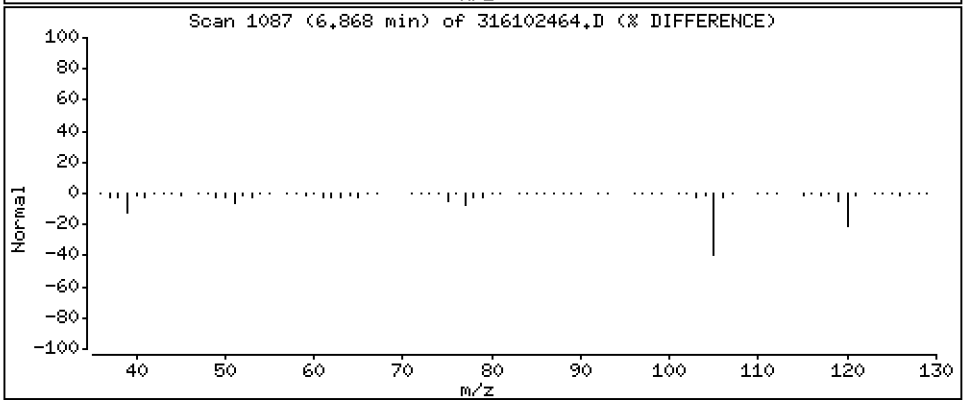












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 104

Date : 25-OCT-2016 03:26

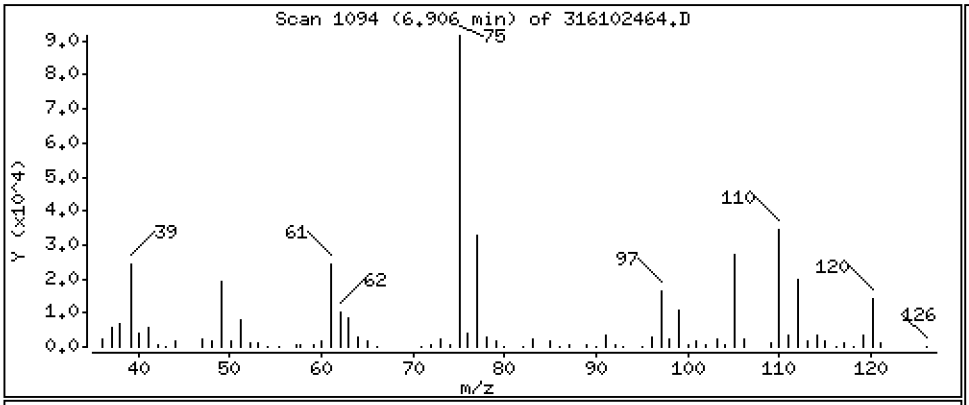
Client ID: LCS for HBN 174041 Instrument: ms03.i

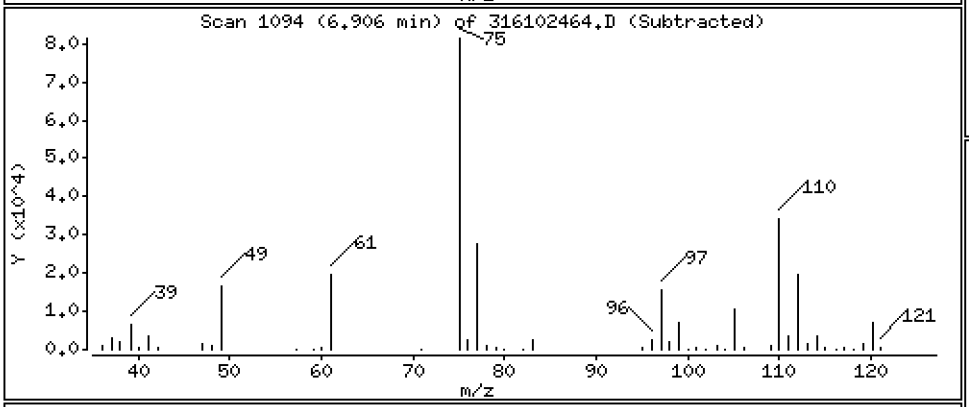
Sample Info: 2428716;;1;3;;LCS;1;

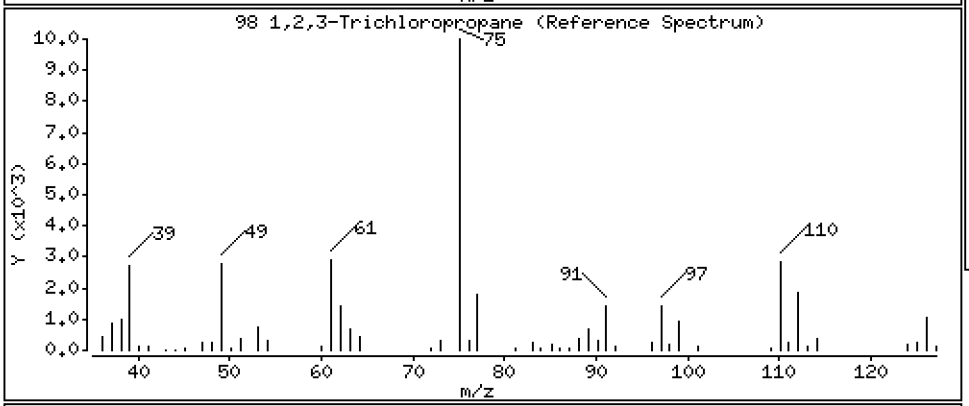
Purge Volume: 5.0 Operator: CJG

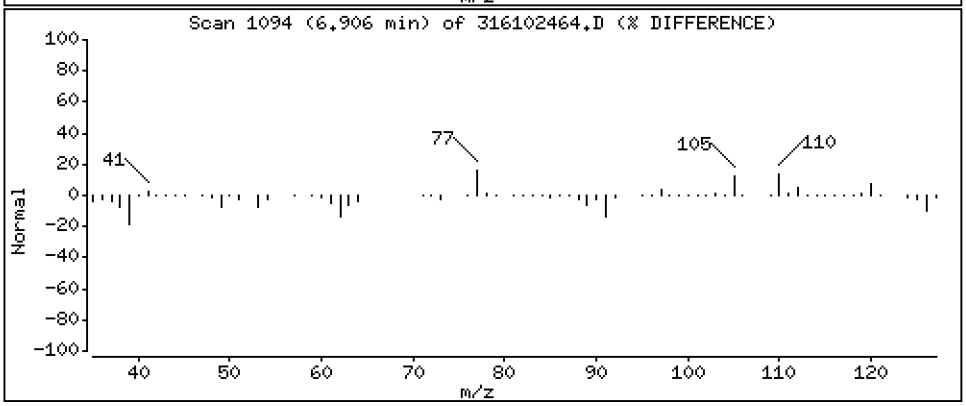
Column phase: DB-VRX Column diameter: 0.25

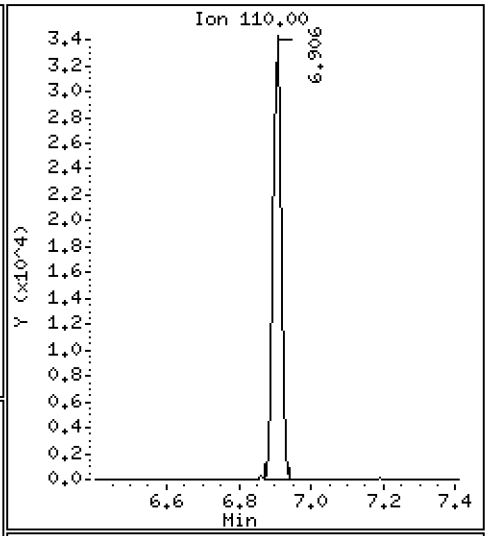
98 1,2,3-Trichloropropane Concentration: 18.6494 ug/L

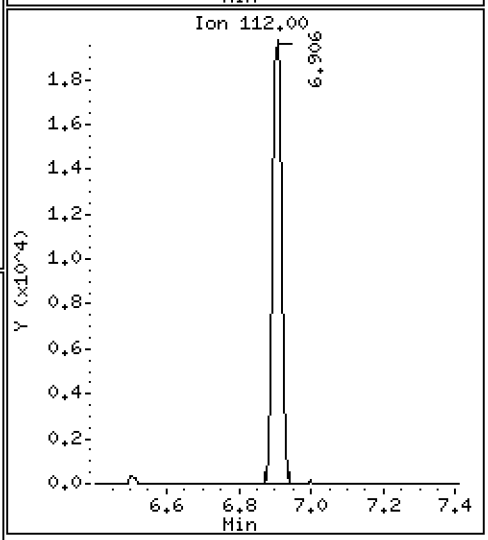












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 105

Date : 25-OCT-2016 03:26

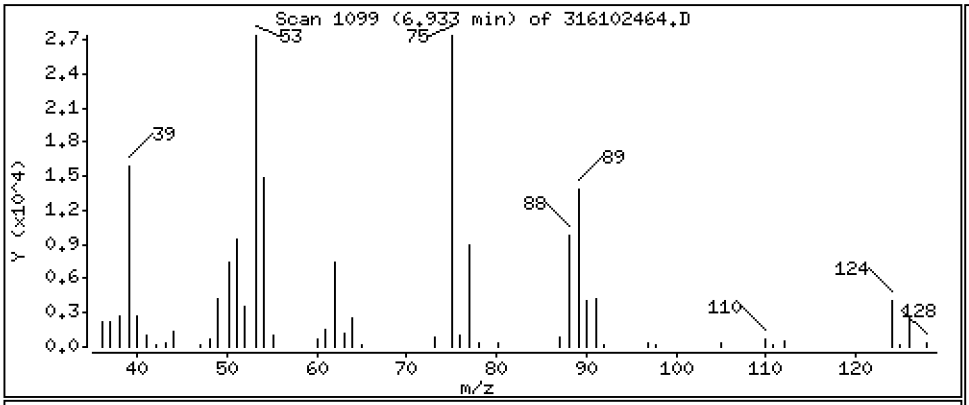
Client ID: LCS for HBN 174041 Instrument: ms03.i

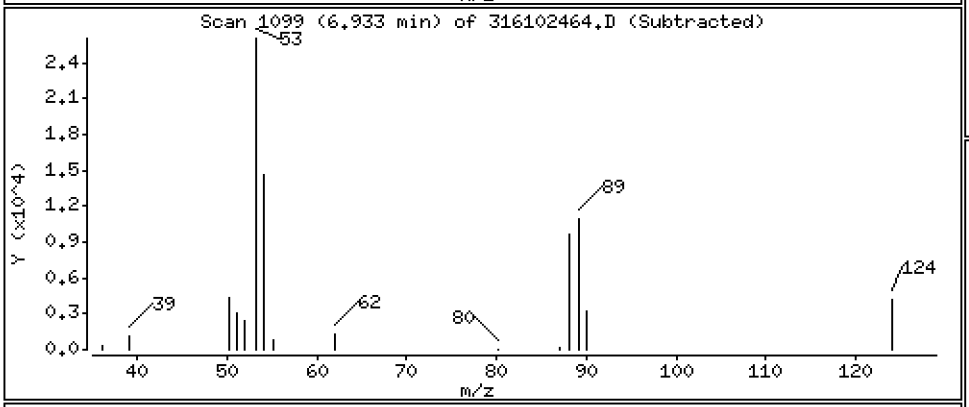
Sample Info: 2428716;;1;3;;LCS;1;

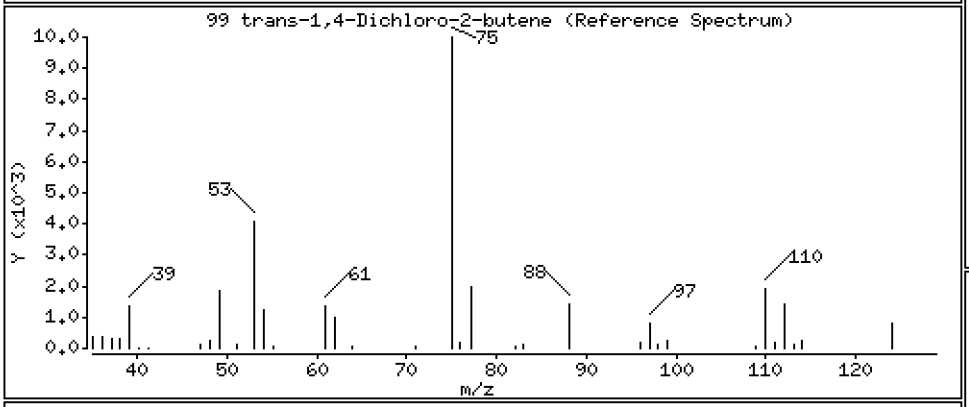
Purge Volume: 5.0 Operator: CJG

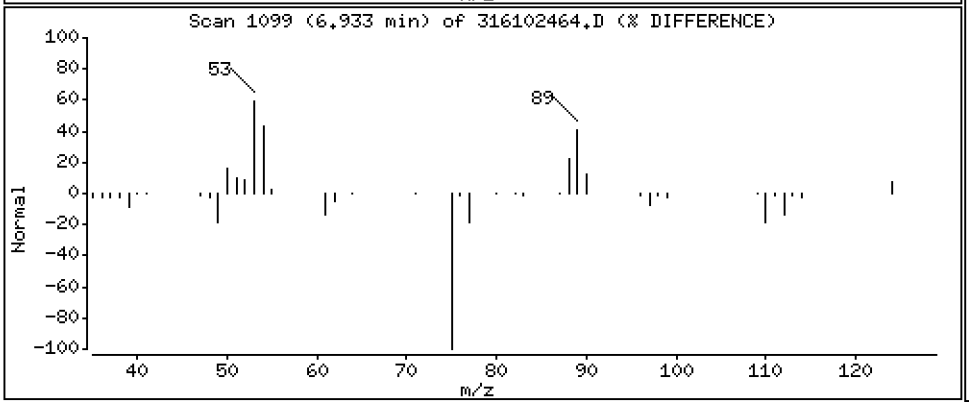
Column phase: DB-VRX Column diameter: 0.25

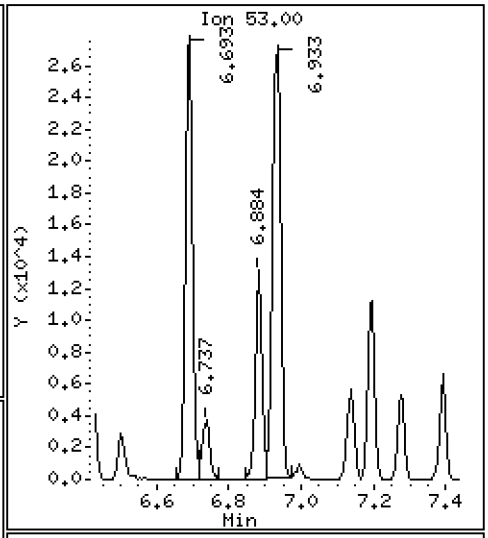
99 trans-1,4-Dichloro-2-butene Concentration: 18.6849 ug/L

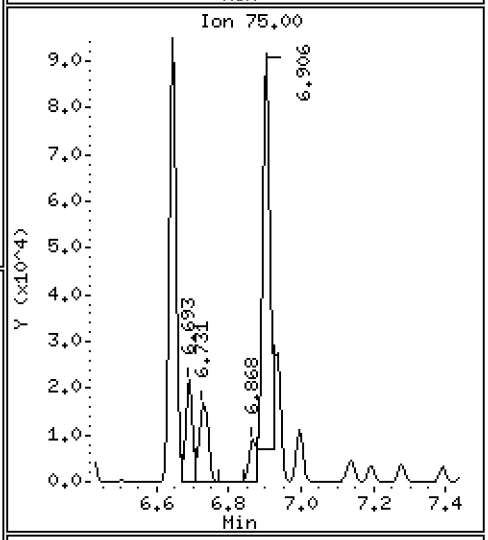


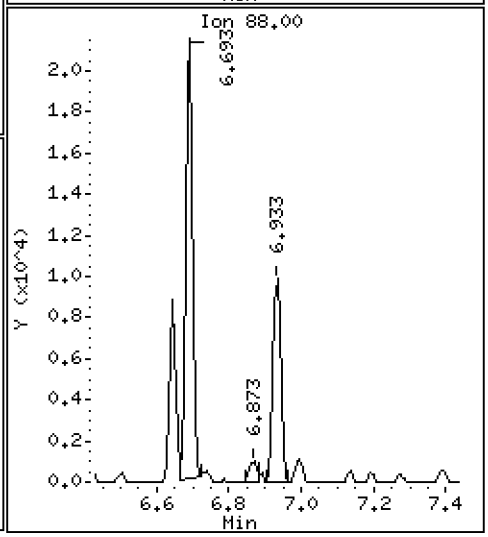












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 106

Date : 25-OCT-2016 03:26

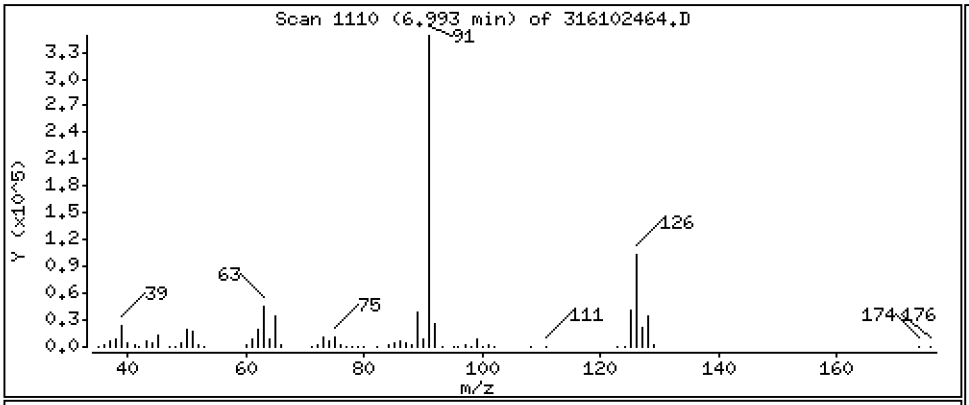
Client ID: LCS for HBN 174041 Instrument: ms03.i

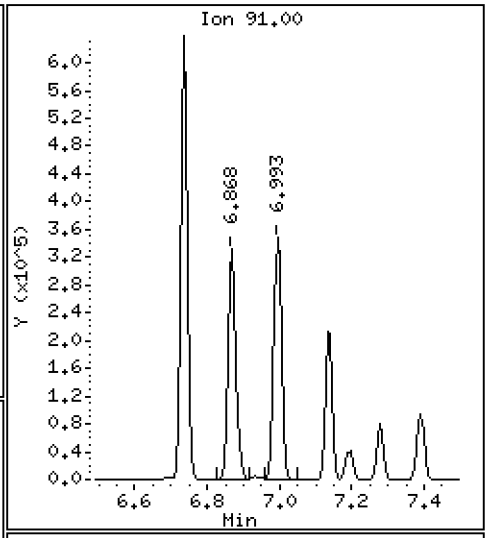
Sample Info: 2428716;;1;3;;LCS;1;

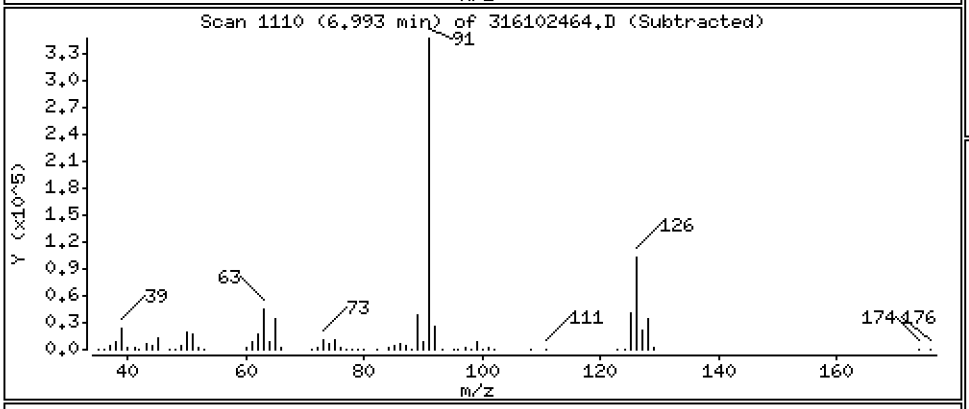
Purge Volume: 5.0 Operator: CJG

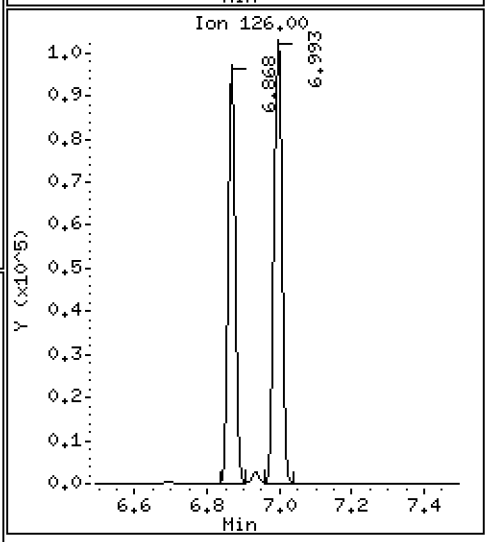
Column phase: DB-VRX Column diameter: 0.25

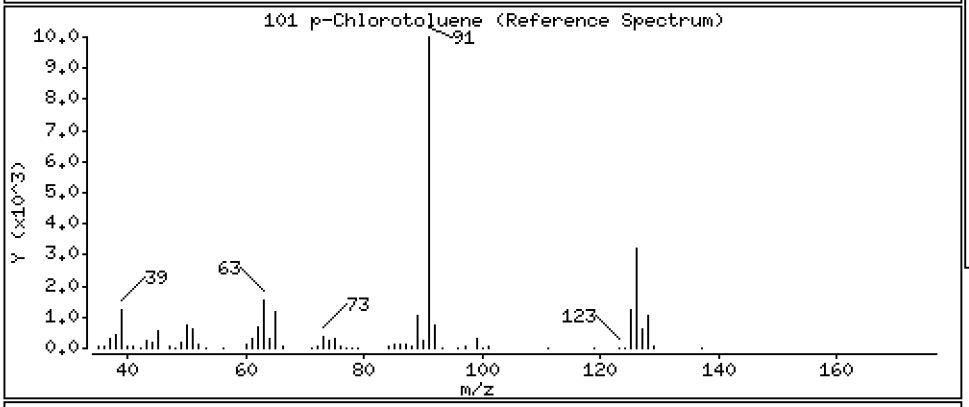
101 p-Chlorotoluene Concentration: 18.8374 ug/L

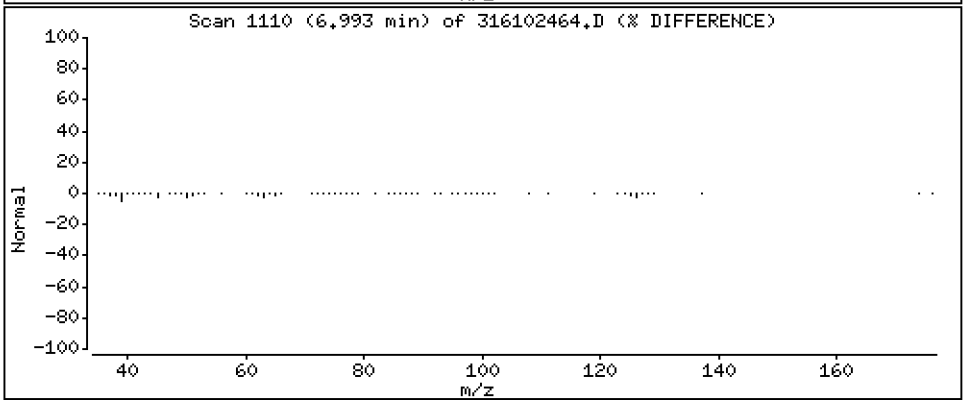












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 107

Date : 25-OCT-2016 03:26

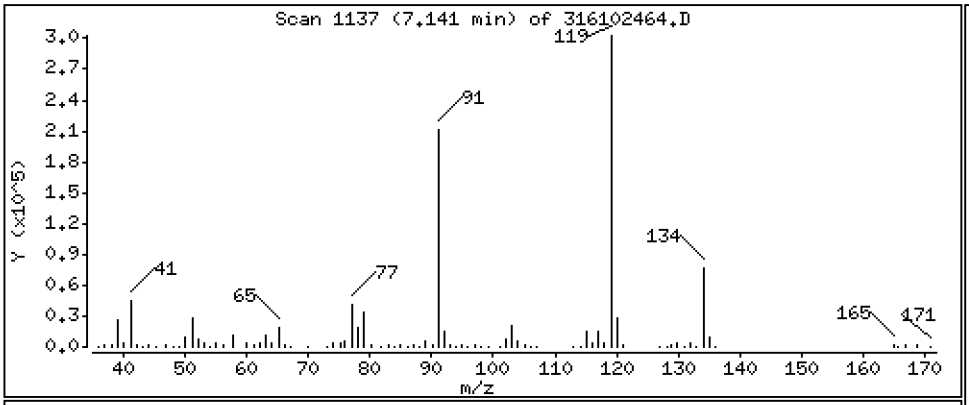
Client ID: LCS for HBN 174041 Instrument: ms03.i

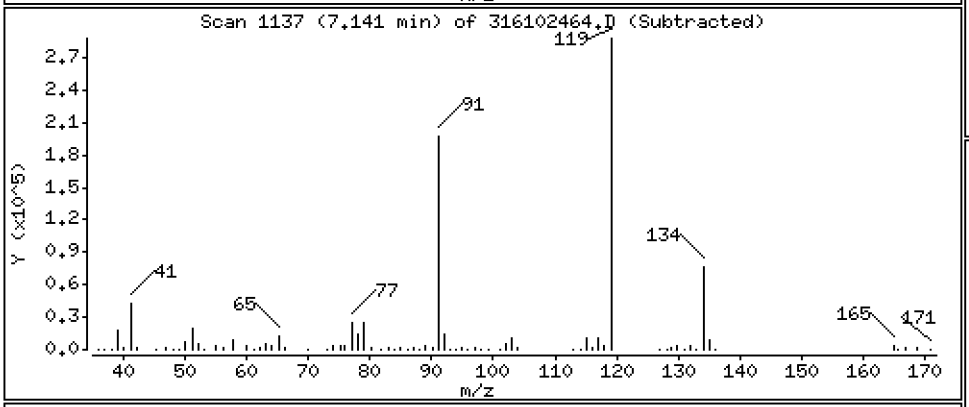
Sample Info: 2428716;;1;3;;LCS;1;

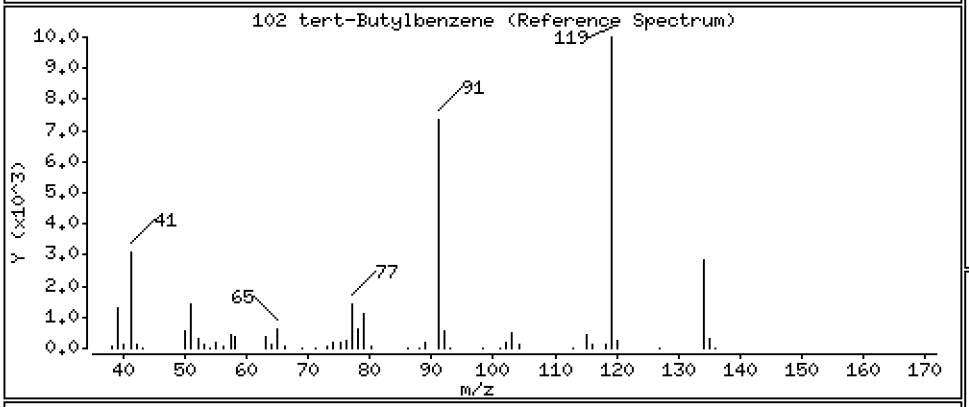
Purge Volume: 5.0 Operator: CJG

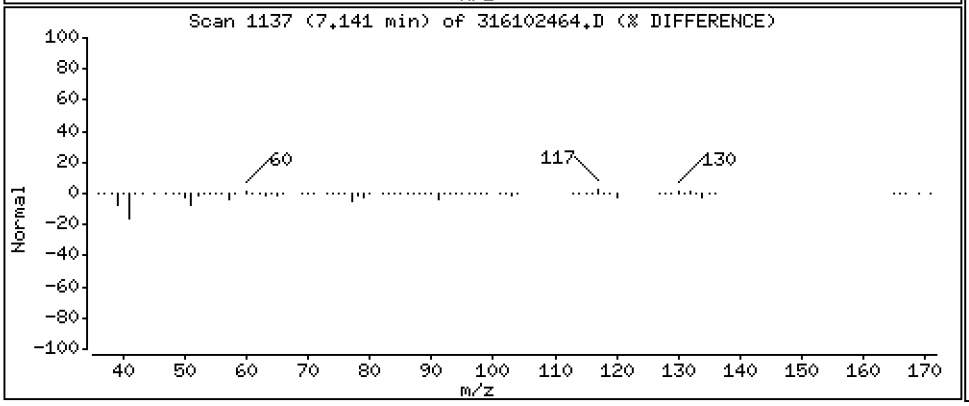
Column phase: DB-VRX Column diameter: 0.25

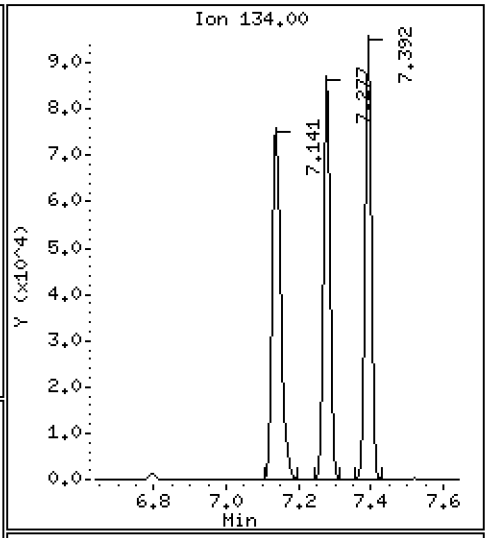
102 tert-Butylbenzene Concentration: 19.4025 ug/L

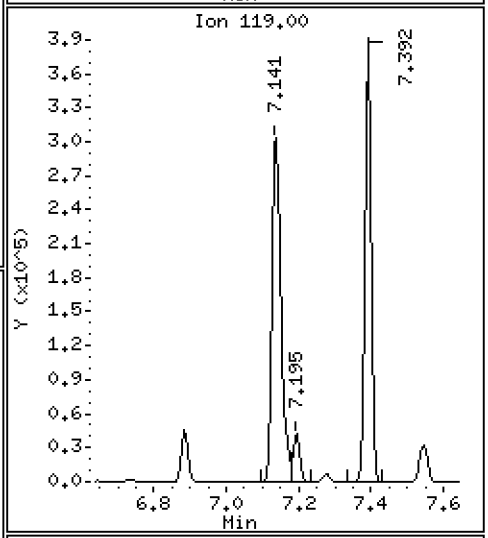


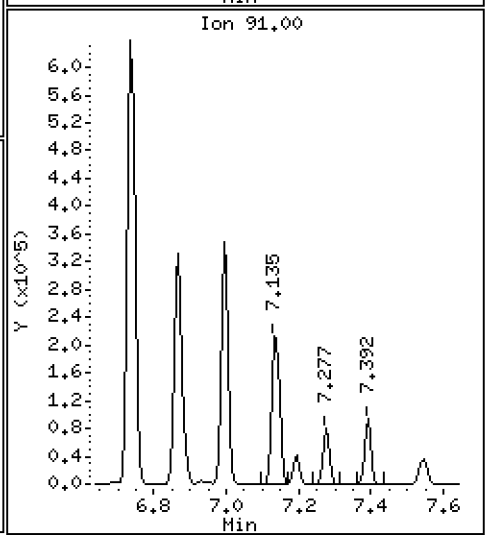












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 108

Date : 25-OCT-2016 03:26

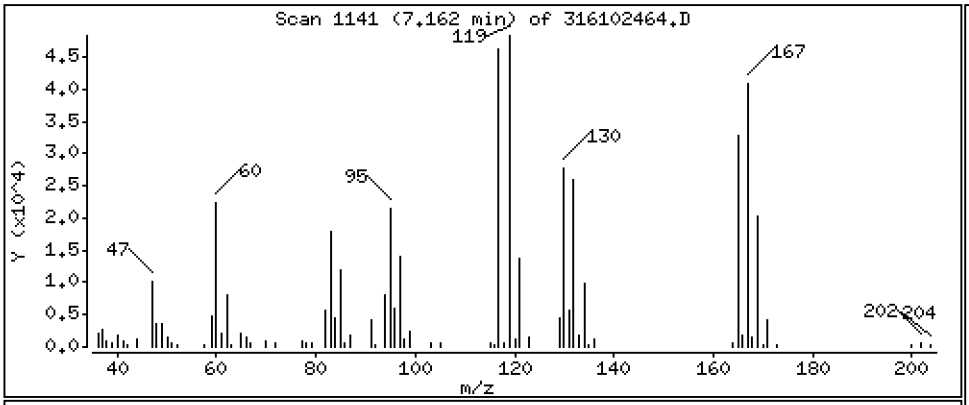
Client ID: LCS for HBN 174041 Instrument: ms03.i

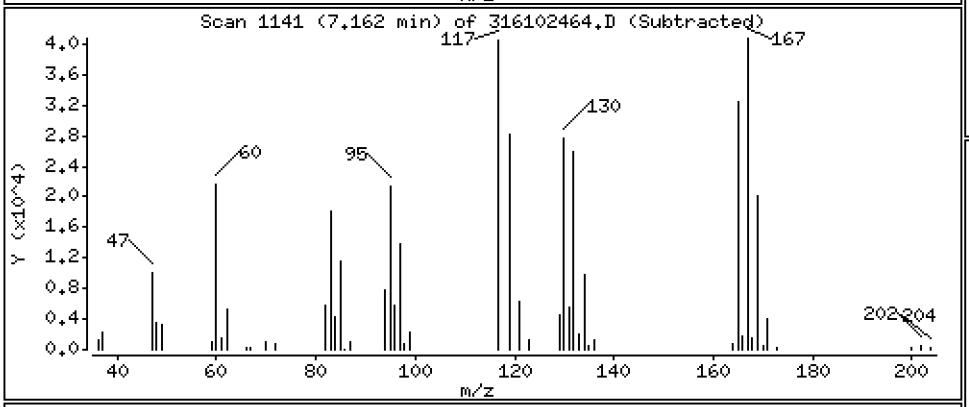
Sample Info: 2428716;;1;3;;LCS;1;

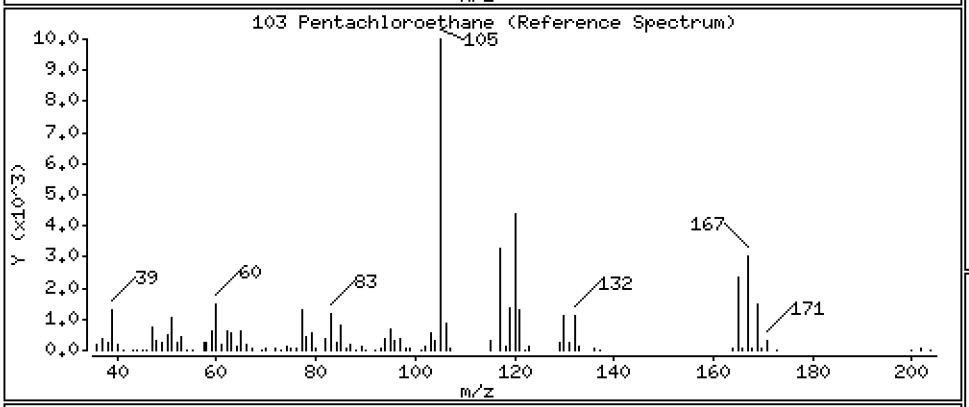
Purge Volume: 5.0 Operator: CJG

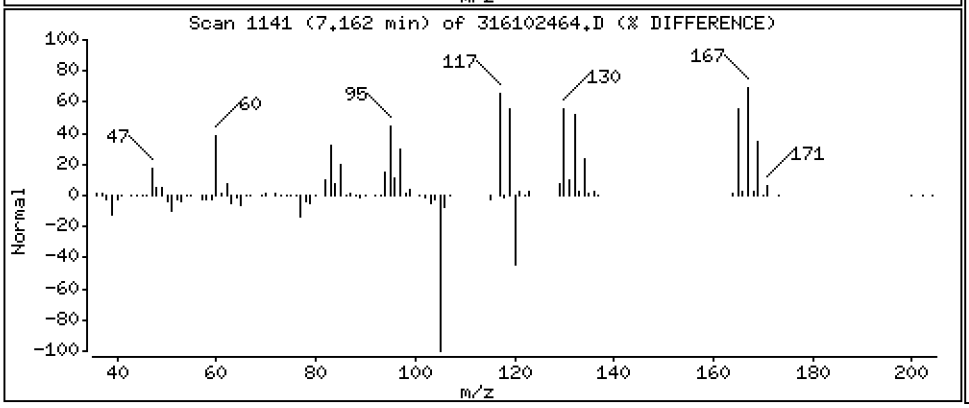
Column phase: DB-VRX Column diameter: 0.25

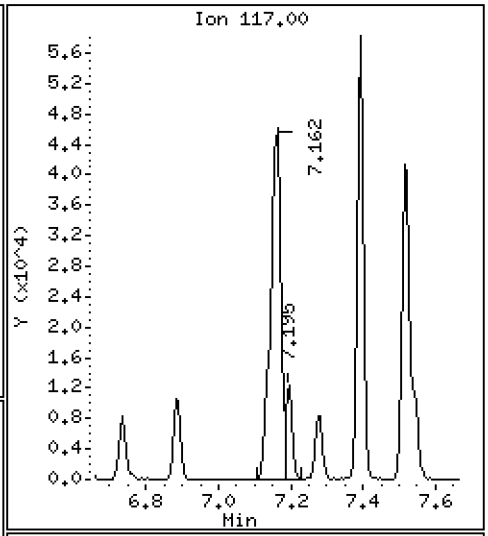
103 Pentachloroethane Concentration: 17.5102 ug/L

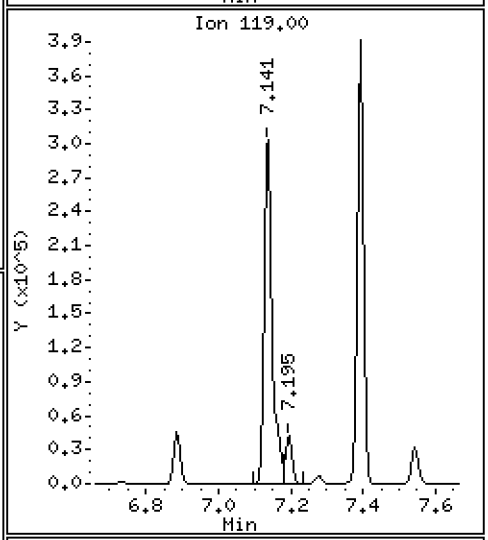


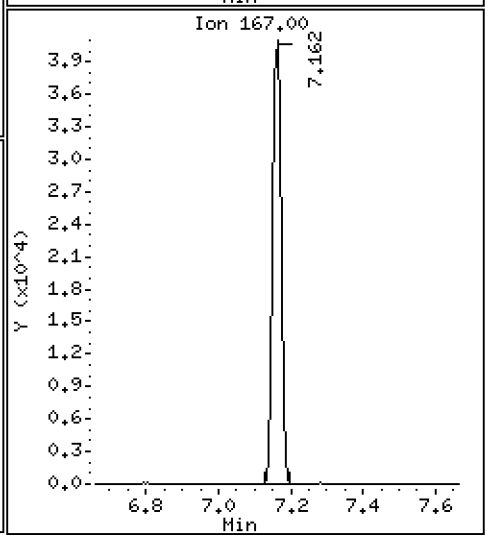












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 109

Date : 25-OCT-2016 03:26

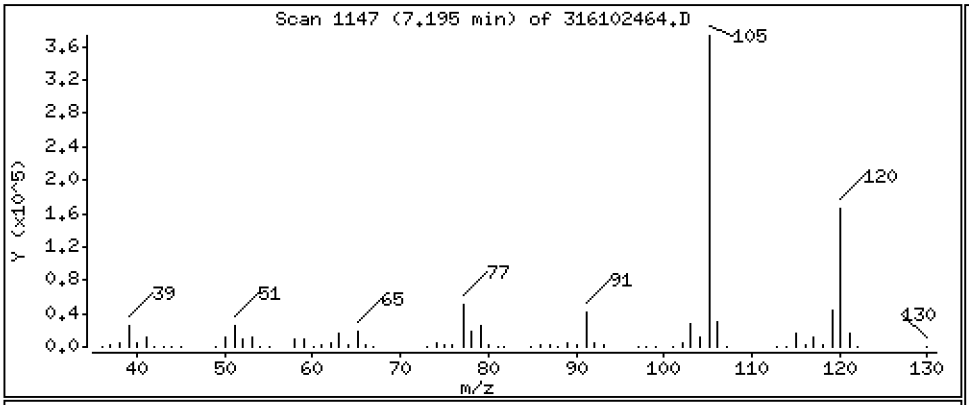
Client ID: LCS for HBN 174041 Instrument: ms03.i

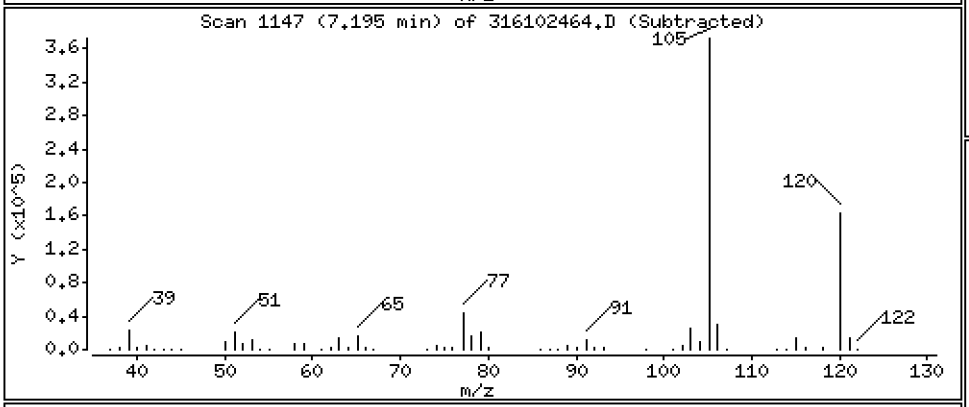
Sample Info: 2428716;;1;3;;LCS;1;

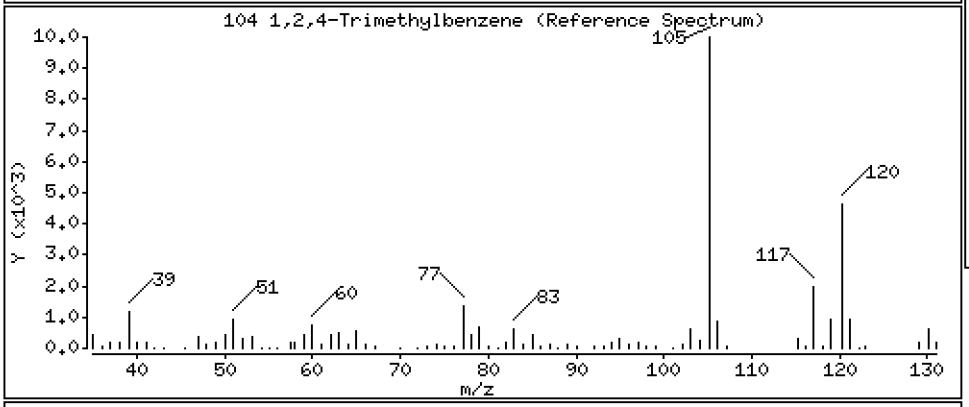
Purge Volume: 5.0 Operator: CJG

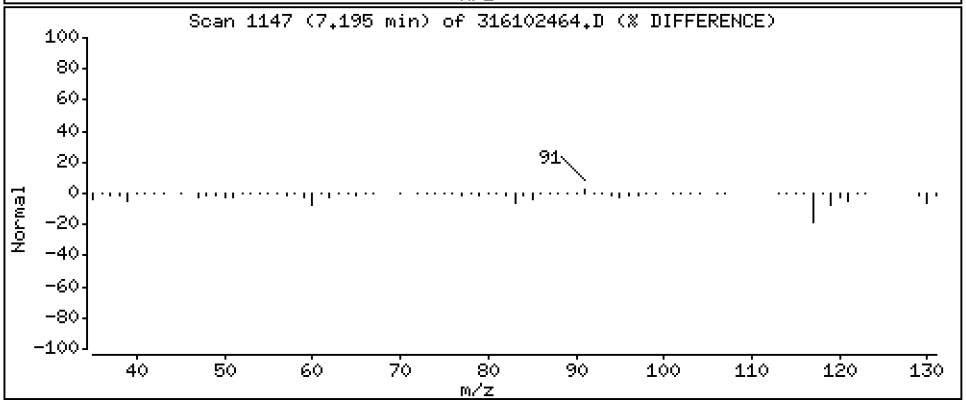
Column phase: DB-VRX Column diameter: 0.25

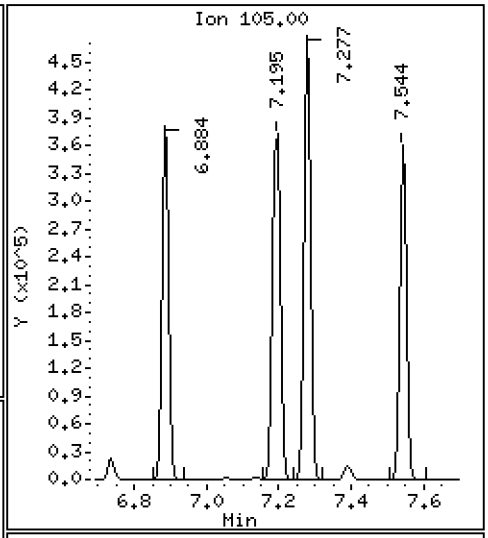
104 1,2,4-Trimethylbenzene Concentration: 19.8974 ug/L

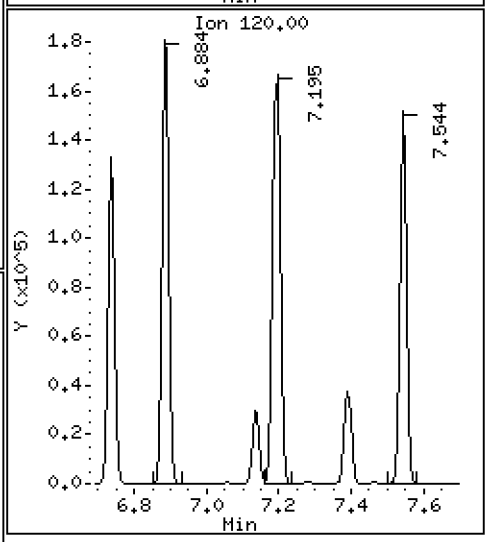












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 110

Date : 25-OCT-2016 03:26

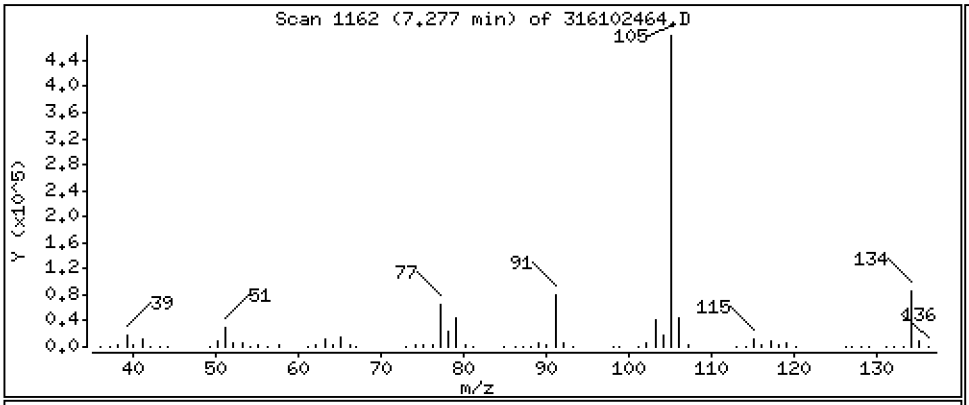
Client ID: LCS for HBN 174041 Instrument: ms03.i

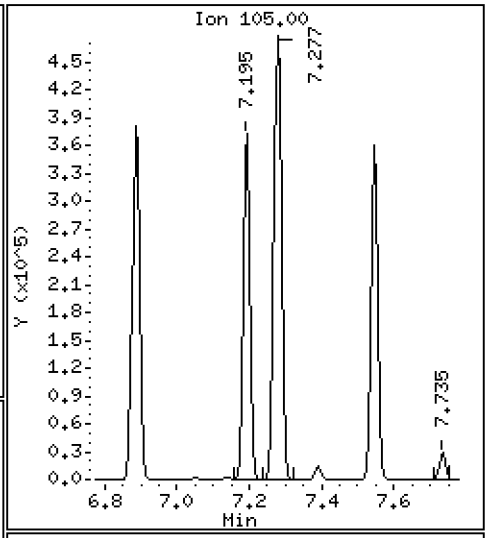
Sample Info: 2428716;;1;3;;LCS;1;

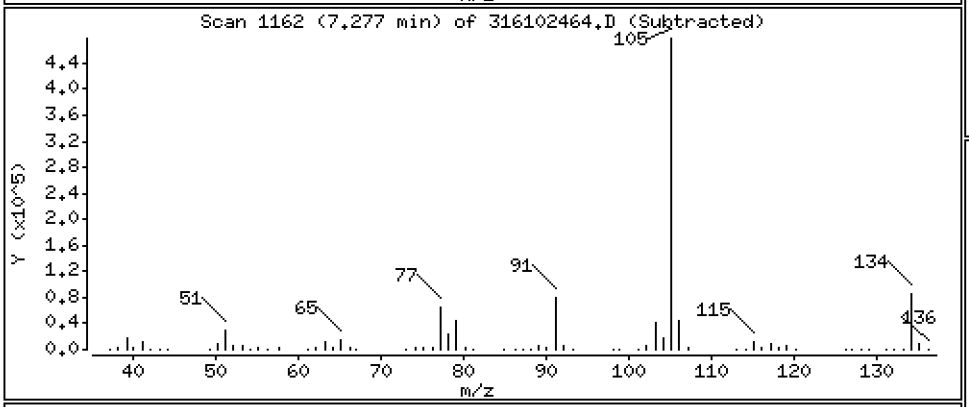
Purge Volume: 5.0 Operator: CJG

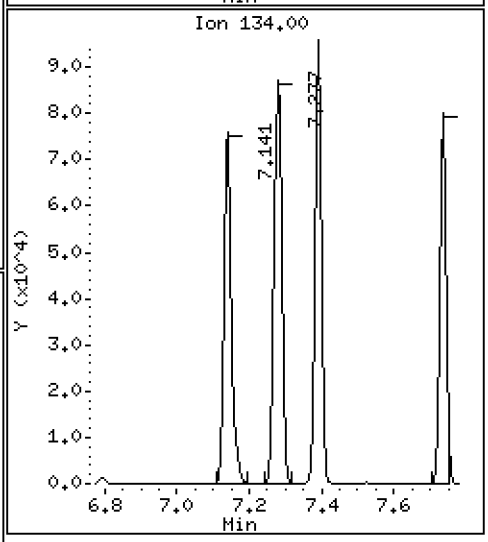
Column phase: DB-VRX Column diameter: 0.25

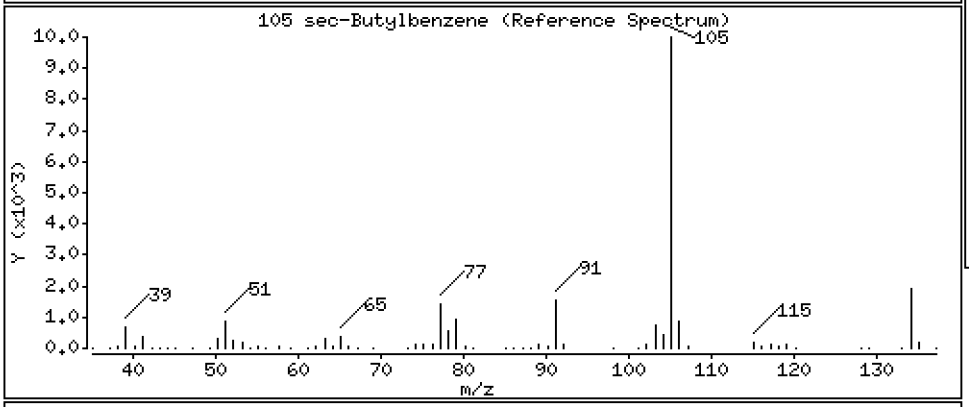
105 sec-Butylbenzene Concentration: 19.8641 ug/L

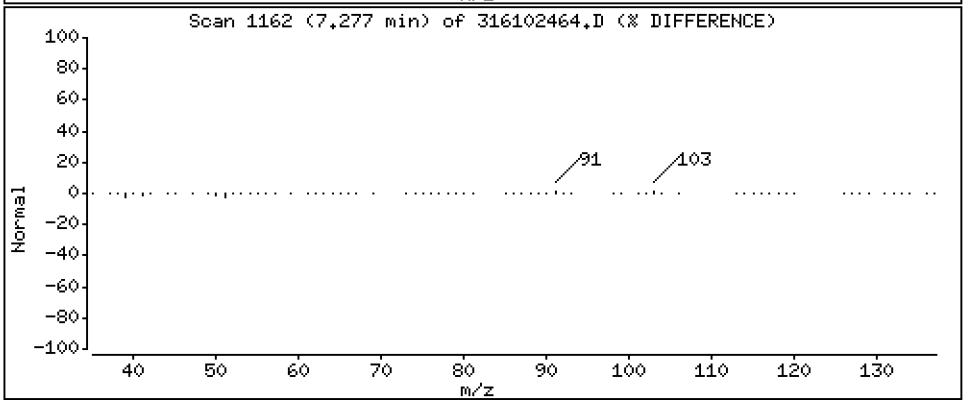












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 111

Date : 25-OCT-2016 03:26

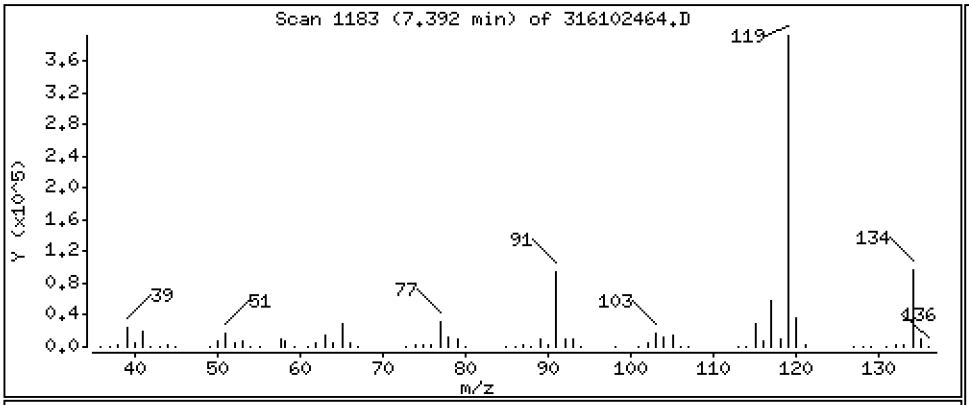
Client ID: LCS for HBN 174041 Instrument: ms03.i

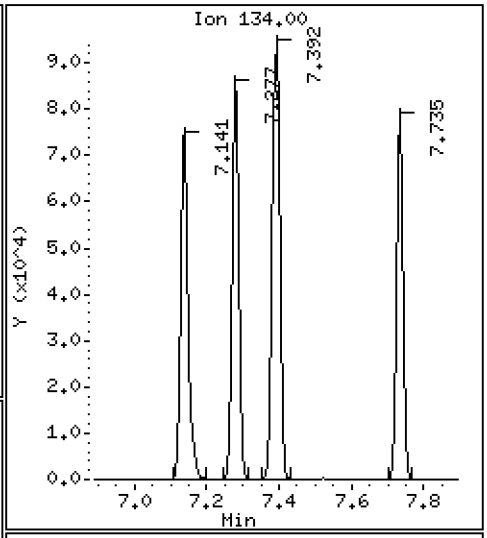
Sample Info: 2428716;;1;3;;LCS;1;

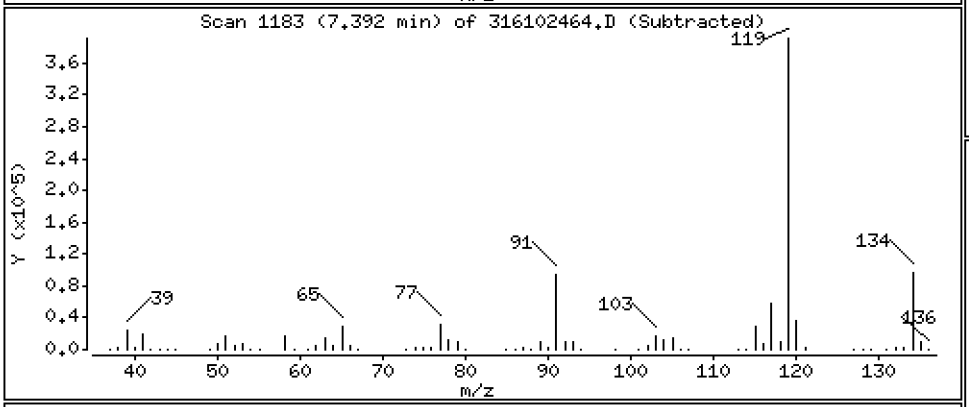
Purge Volume: 5.0 Operator: CJG

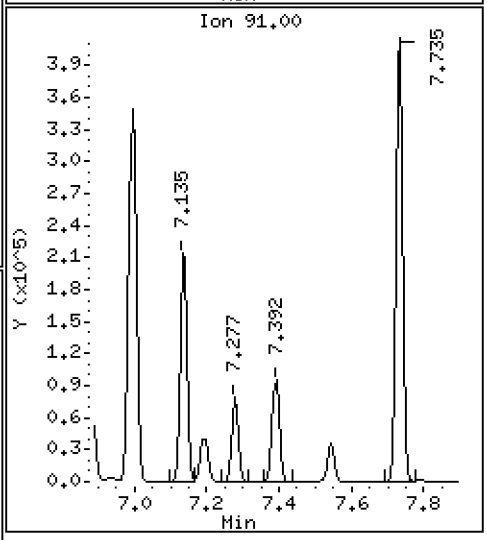
Column phase: DB-VRX Column diameter: 0.25

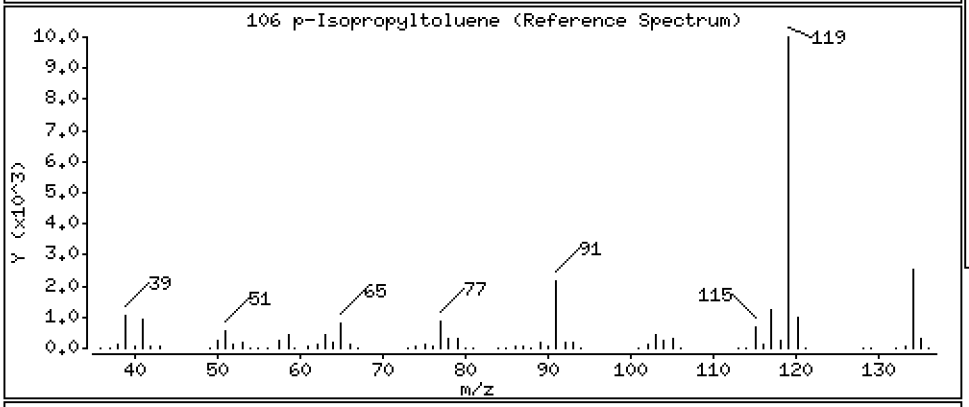
106 p-Isopropyltoluene Concentration: 20.0183 ug/L

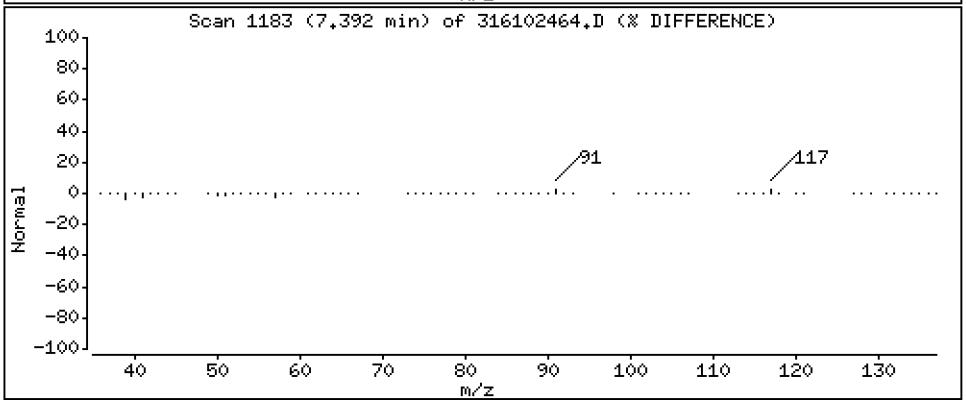












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 112

Date : 25-OCT-2016 03:26

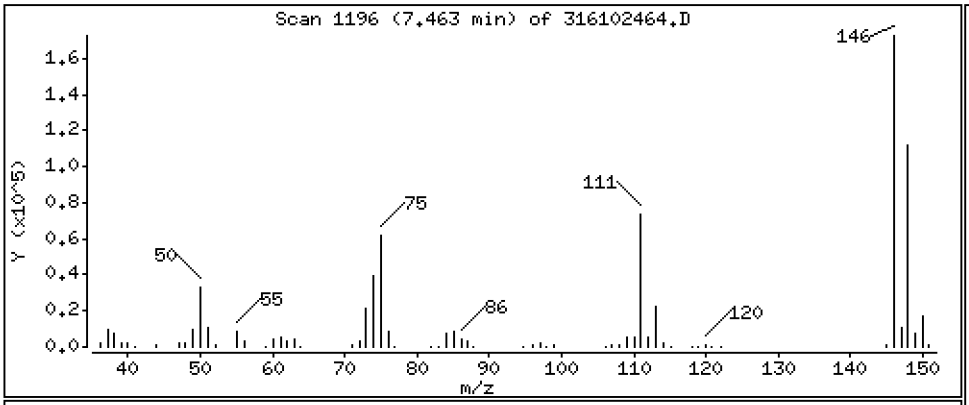
Client ID: LCS for HBN 174041 Instrument: ms03.i

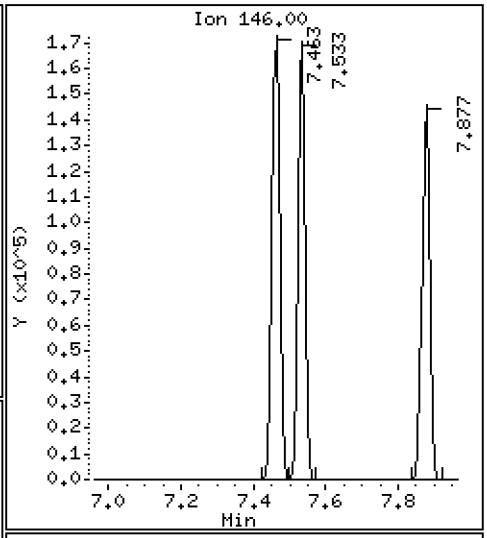
Sample Info: 2428716;;1;3;;LCS;1;

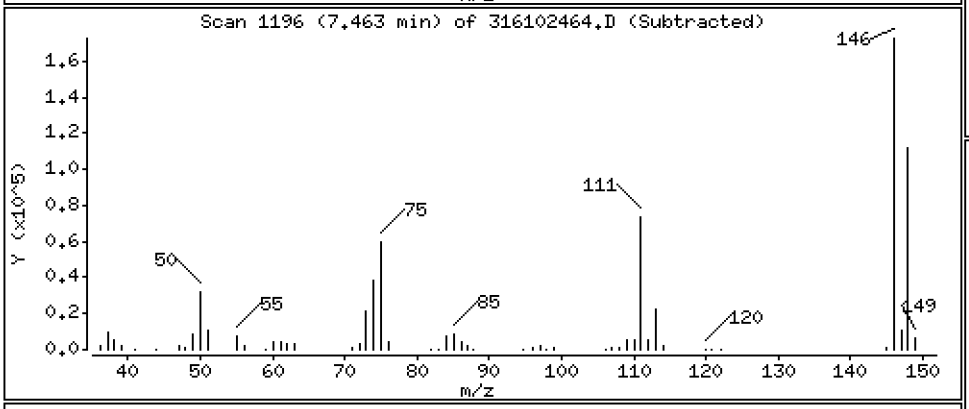
Purge Volume: 5.0 Operator: CJG

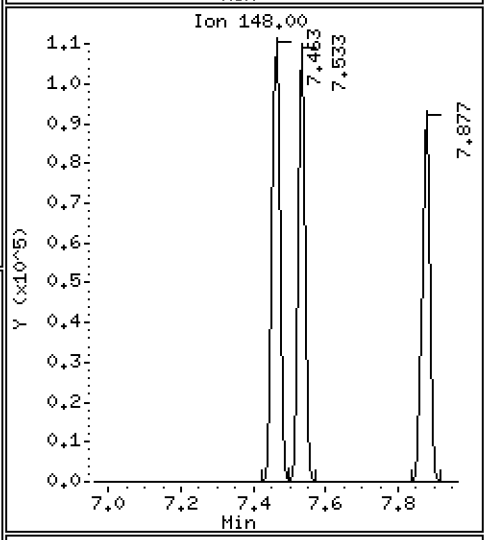
Column phase: DB-VRX Column diameter: 0.25

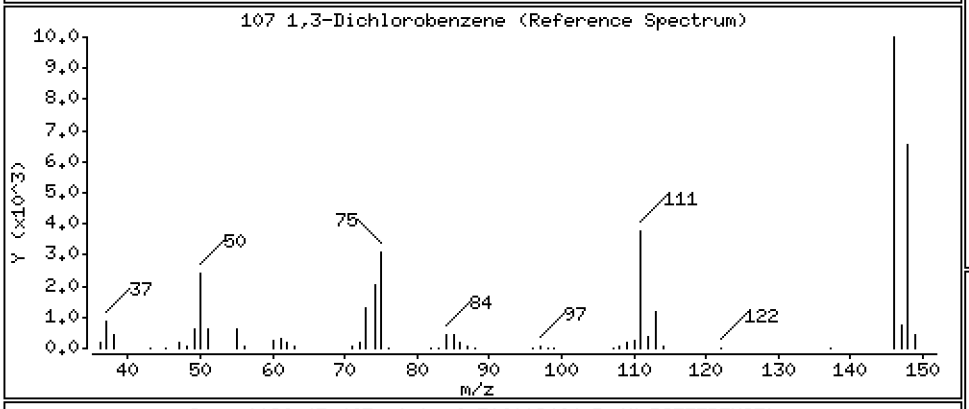
107 1,3-Dichlorobenzene Concentration: 19.5897 ug/L

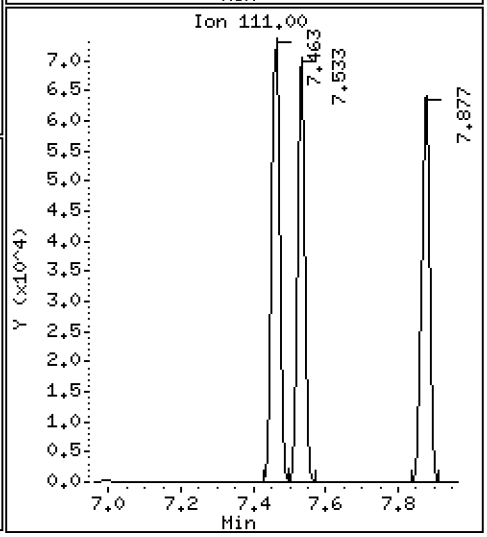


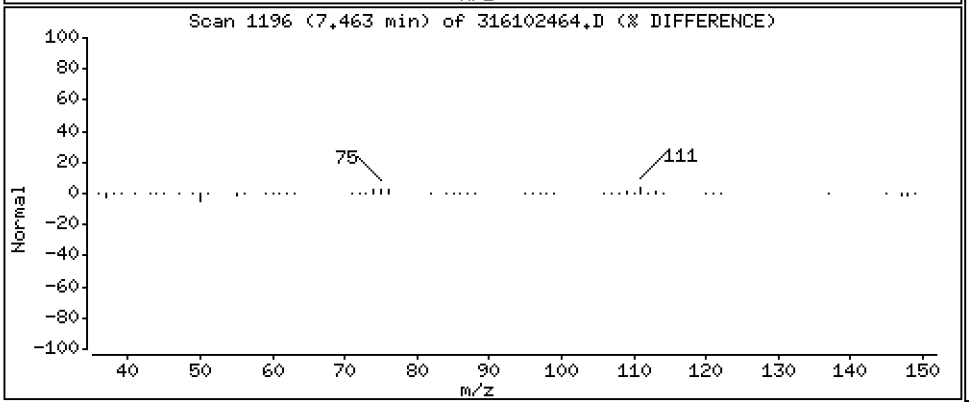












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 113

Date : 25-OCT-2016 03:26

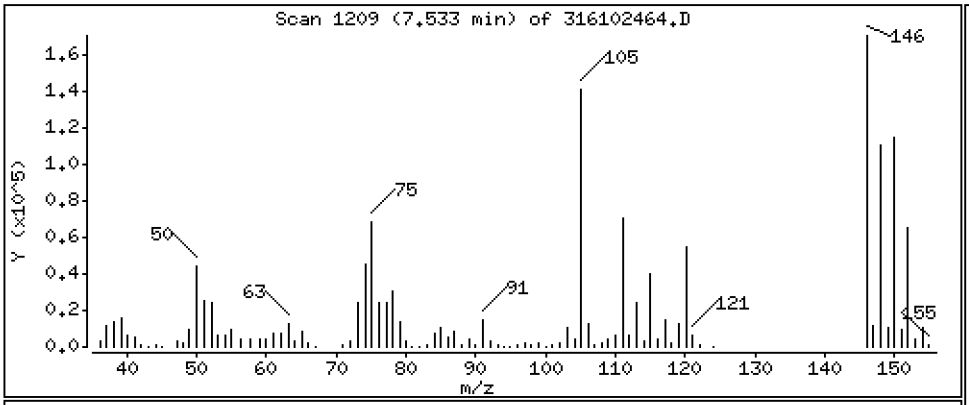
Client ID: LCS for HBN 174041 Instrument: ms03.i

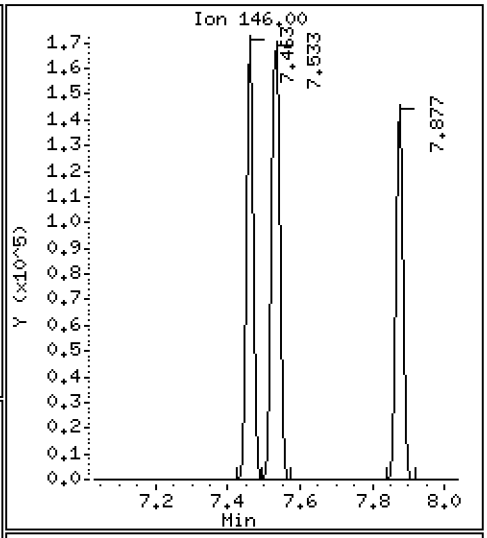
Sample Info: 2428716;;1;3;;LCS;1;

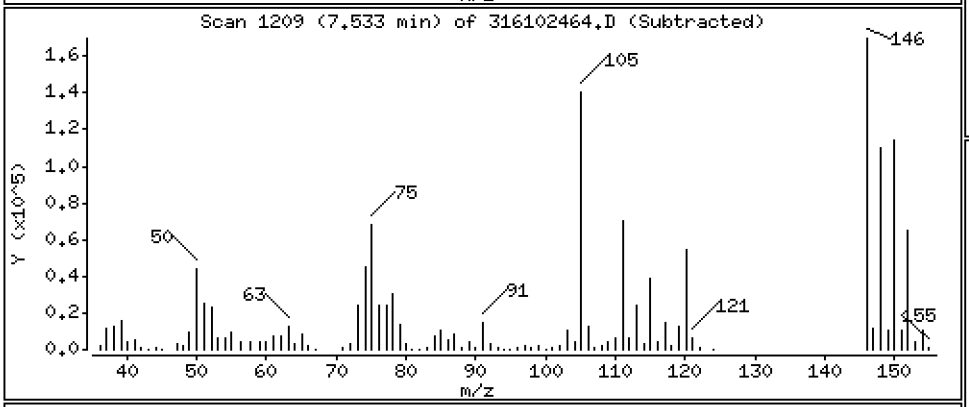
Purge Volume: 5.0 Operator: CJG

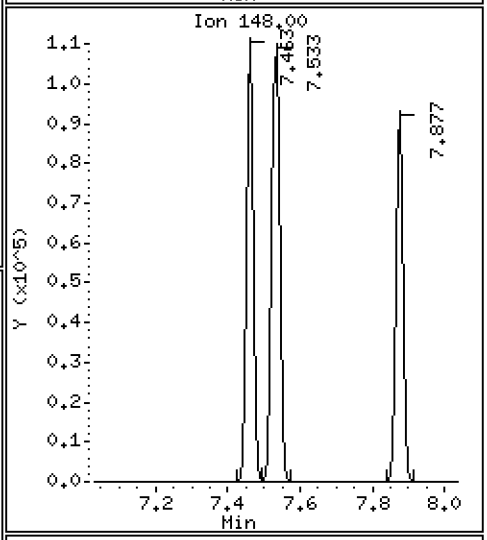
Column phase: DB-VRX Column diameter: 0.25

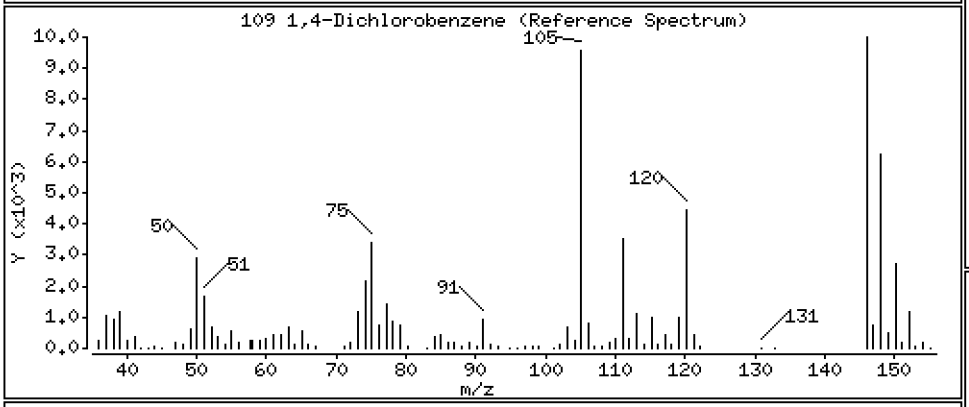
109 1,4-Dichlorobenzene Concentration: 19.8014 ug/L

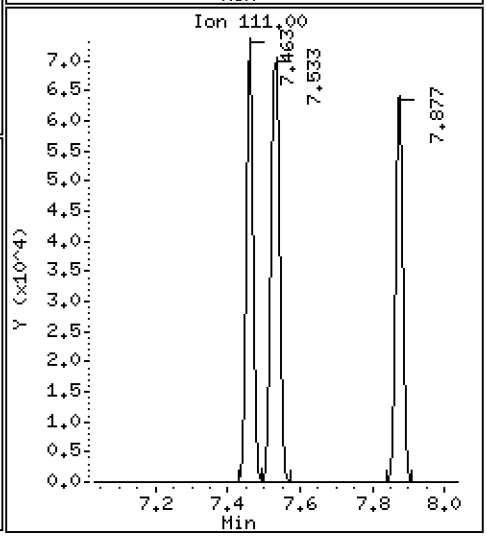


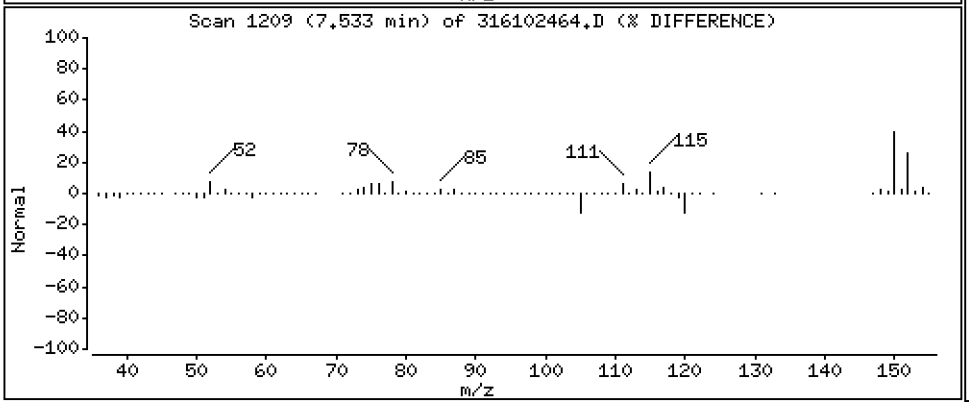












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 114

Date : 25-OCT-2016 03:26

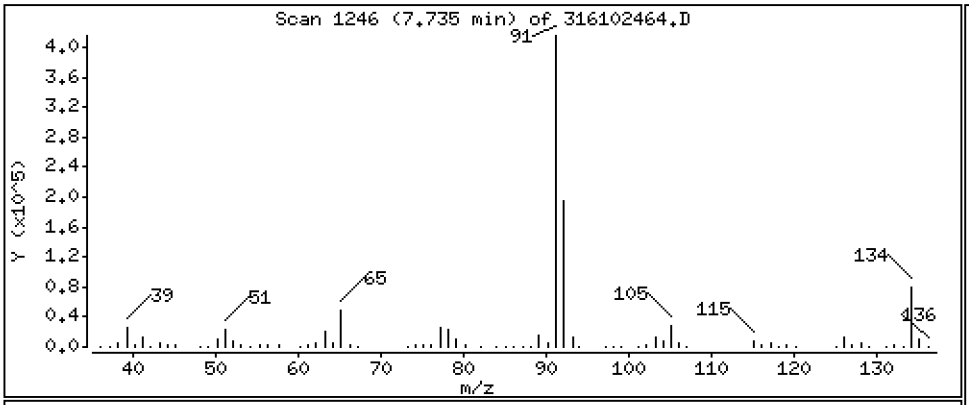
Client ID: LCS for HBN 174041 Instrument: ms03.i

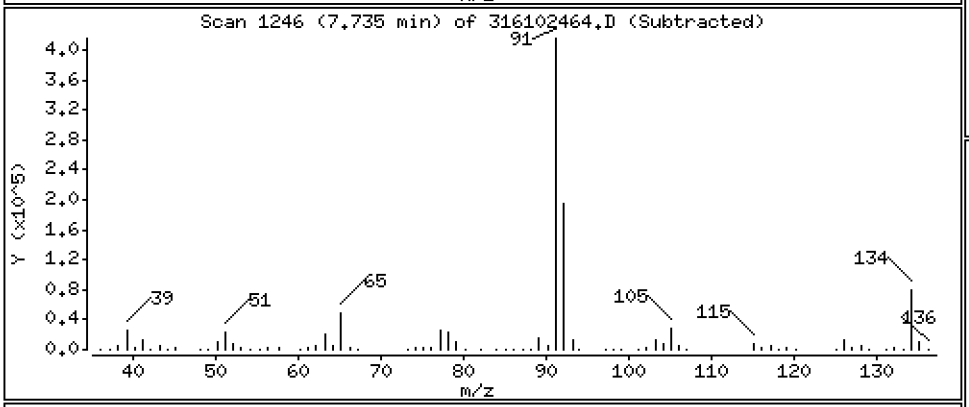
Sample Info: 2428716;;1;3;;LCS;1;

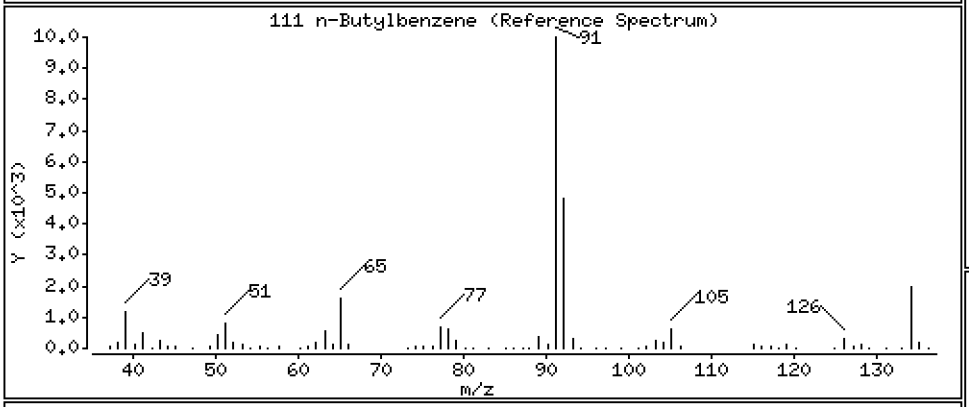
Purge Volume: 5.0 Operator: CJG

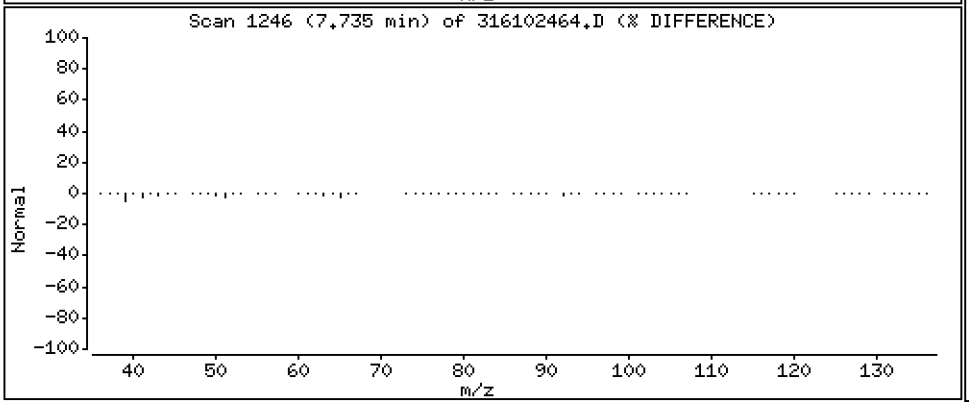
Column phase: DB-VRX Column diameter: 0.25

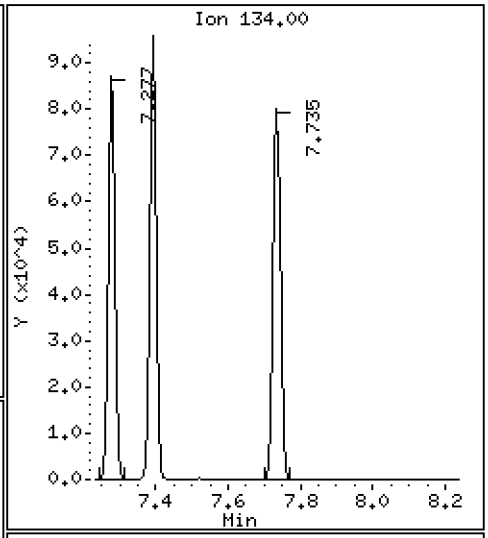
111 n-Butylbenzene Concentration: 18.8019 ug/L

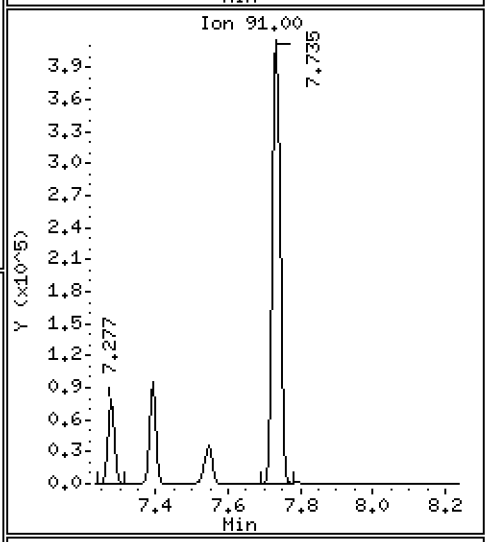


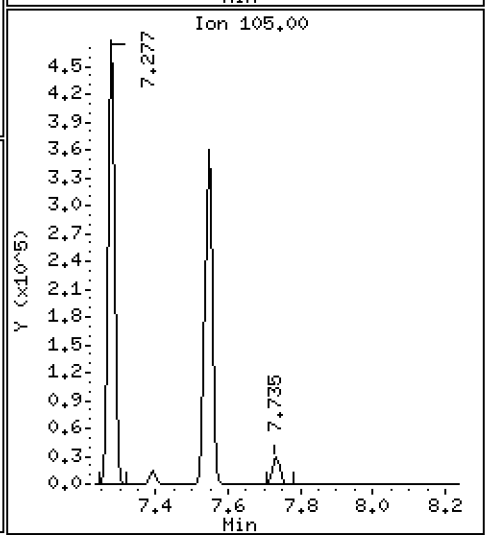












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 115

Date : 25-OCT-2016 03:26

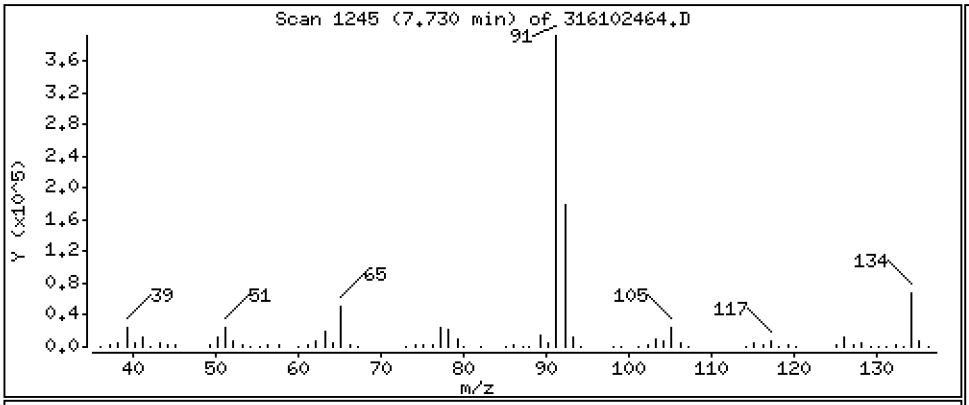
Client ID: LCS for HBN 174041 Instrument: ms03.i

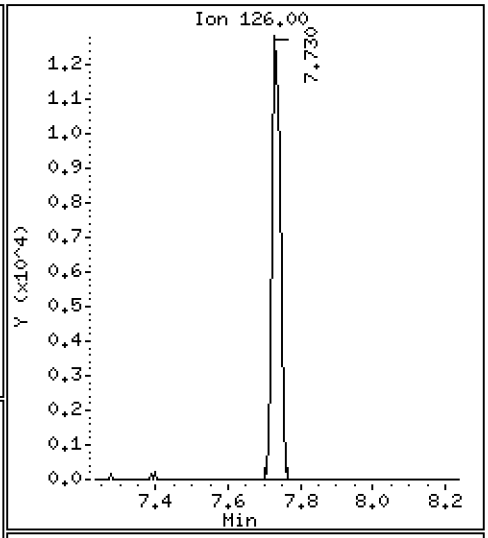
Sample Info: 2428716;;1;3;;LCS;1;

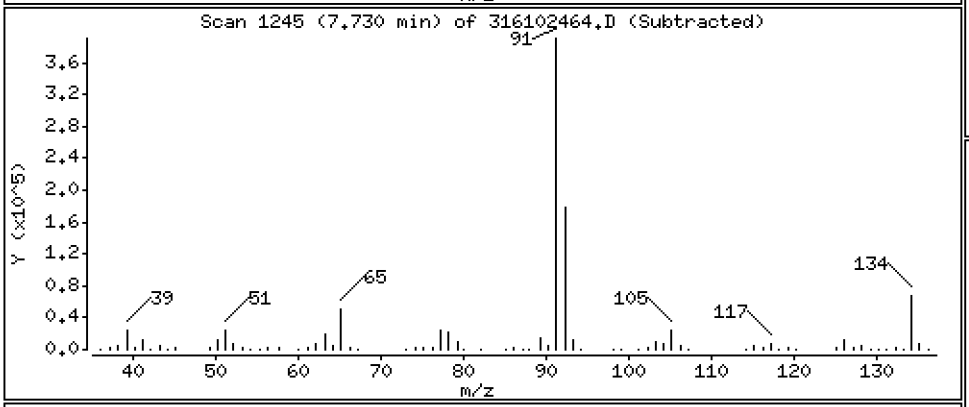
Purge Volume: 5.0 Operator: CJG

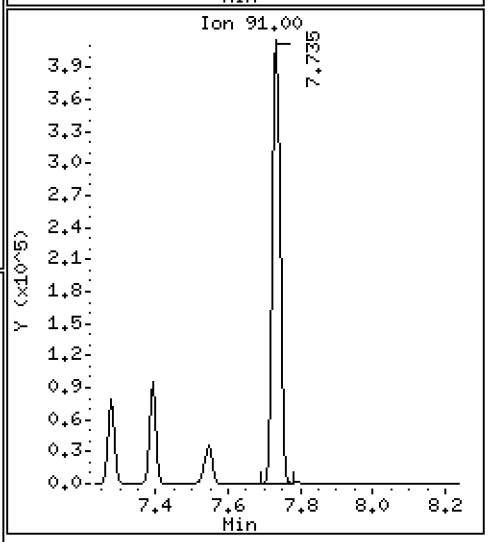
Column phase: DB-VRX Column diameter: 0.25

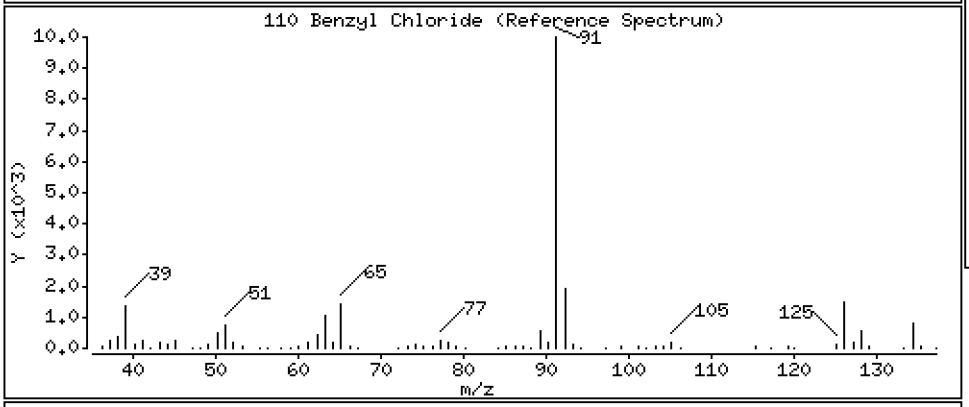
110 Benzyl Chloride Concentration: 12.0019 ug/L

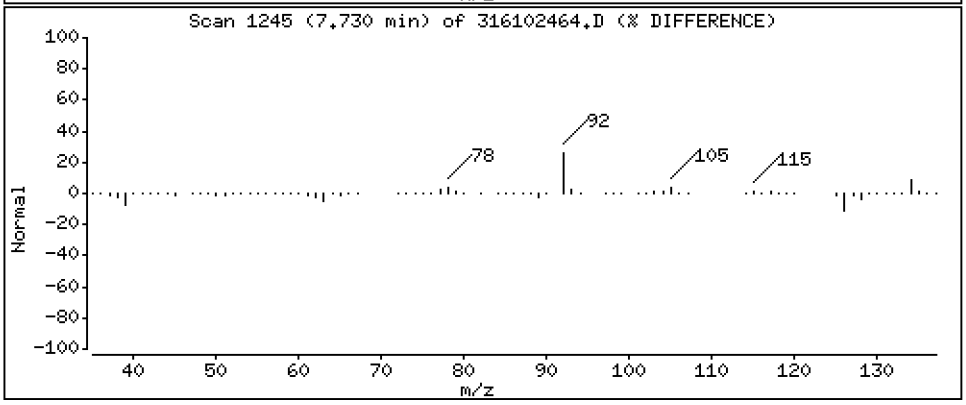












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 116

Date : 25-OCT-2016 03:26

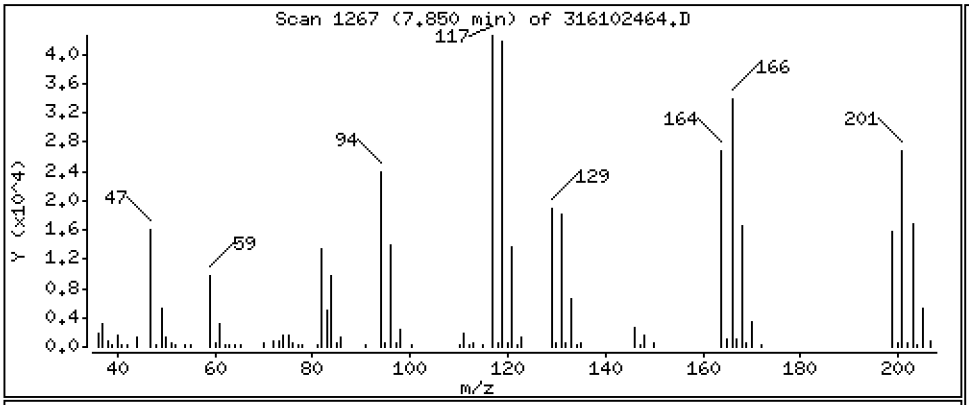
Client ID: LCS for HBN 174041 Instrument: ms03.i

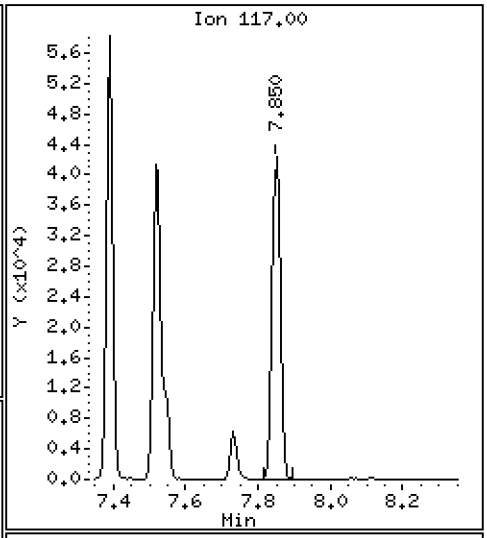
Sample Info: 2428716;;1;3;;LCS;1;

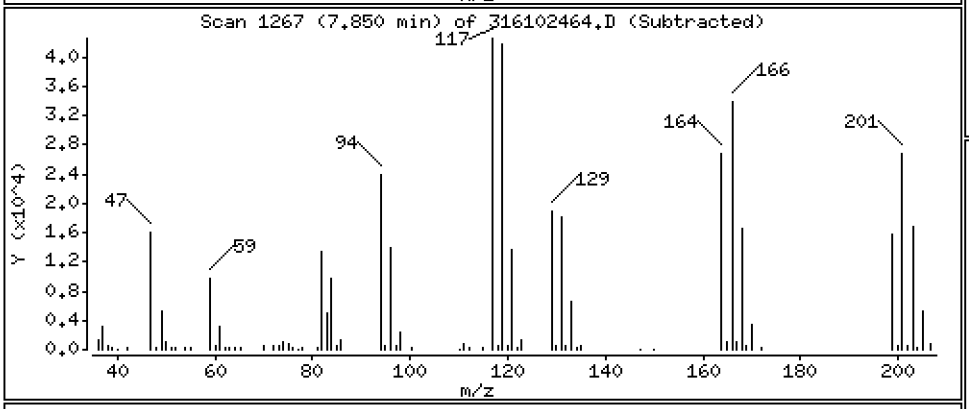
Purge Volume: 5.0 Operator: CJG

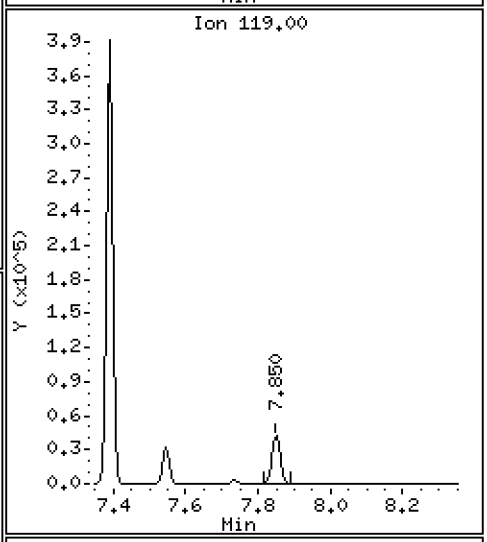
Column phase: DB-VRX Column diameter: 0.25

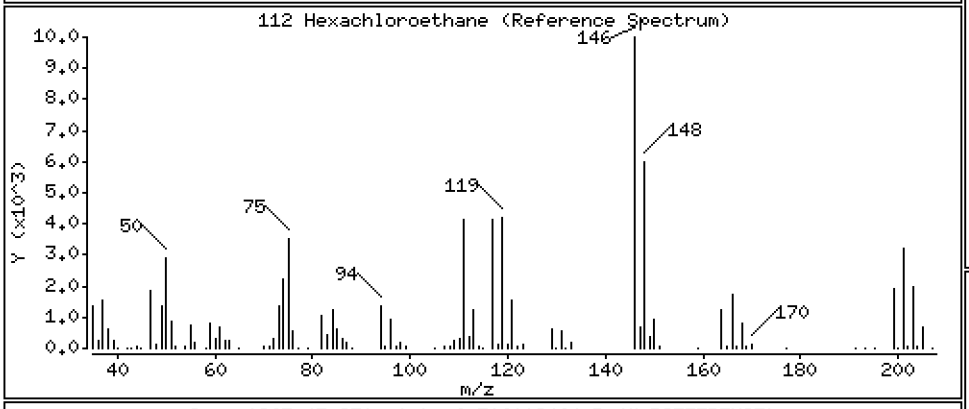
112 Hexachloroethane Concentration: 16.4021 ug/L

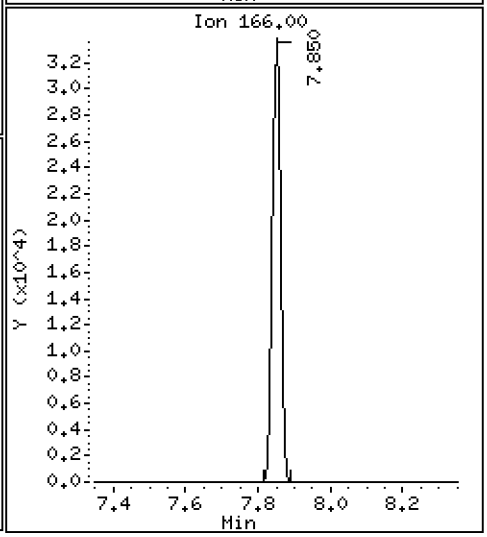


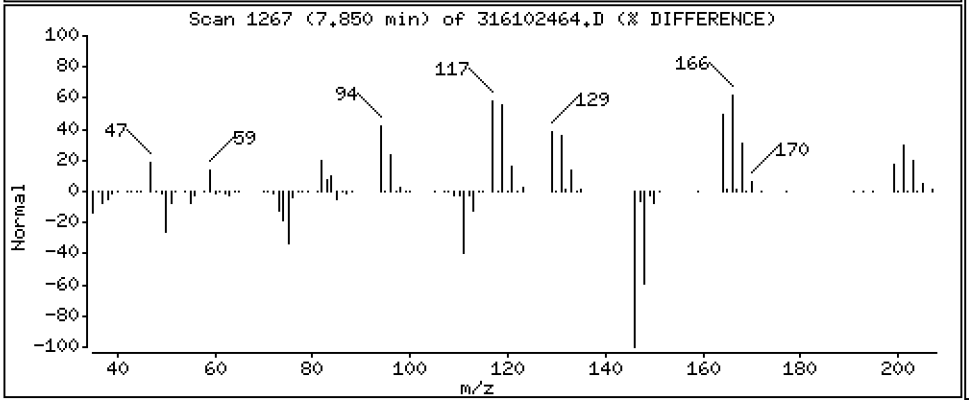












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 117

Date : 25-OCT-2016 03:26

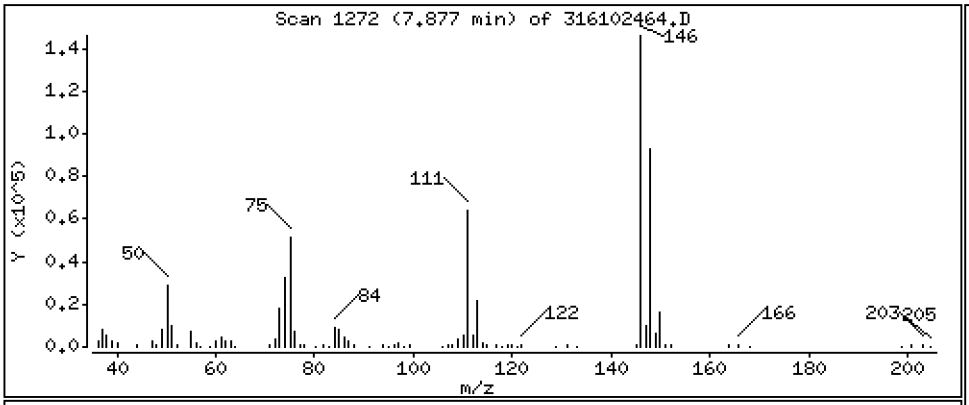
Client ID: LCS for HBN 174041 Instrument: ms03.i

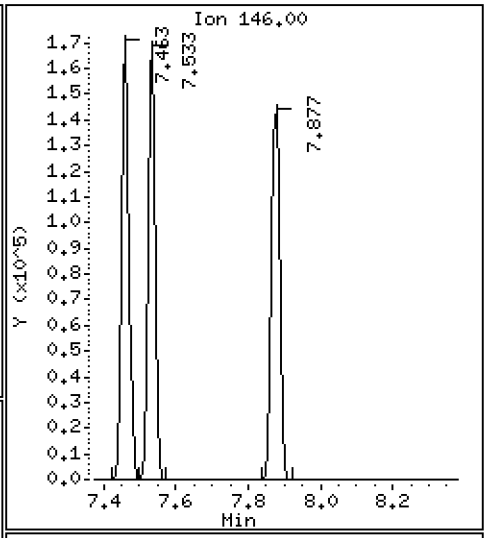
Sample Info: 2428716;;1;3;;LCS;1;

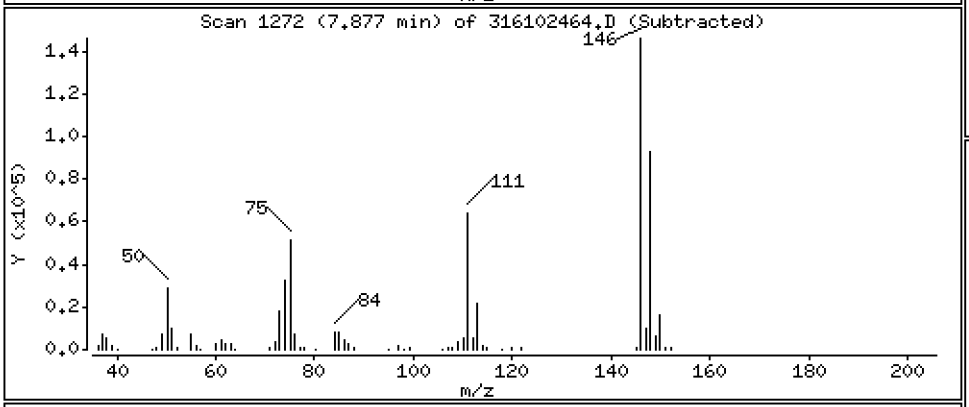
Purge Volume: 5.0 Operator: CJG

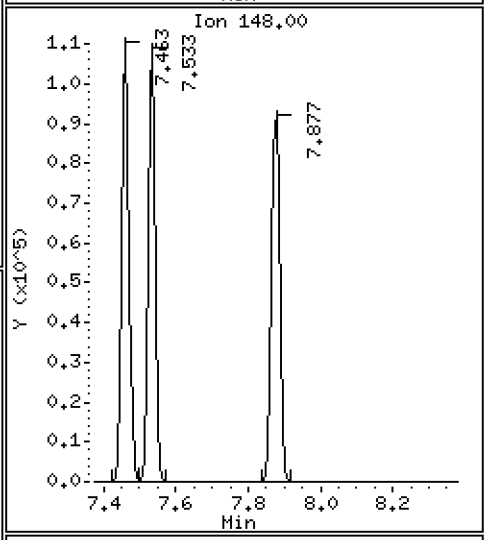
Column phase: DB-VRX Column diameter: 0.25

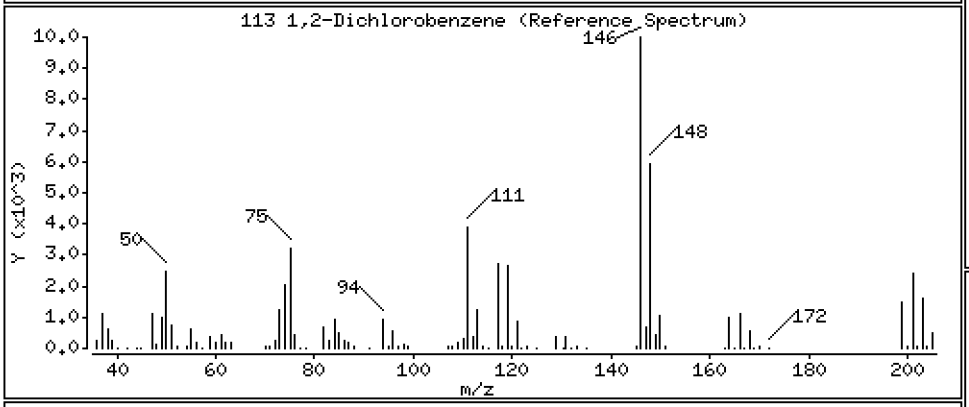
113 1,2-Dichlorobenzene Concentration: 19.4038 ug/L

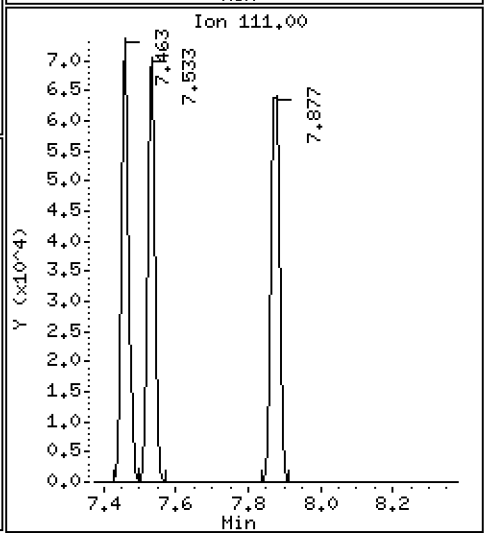


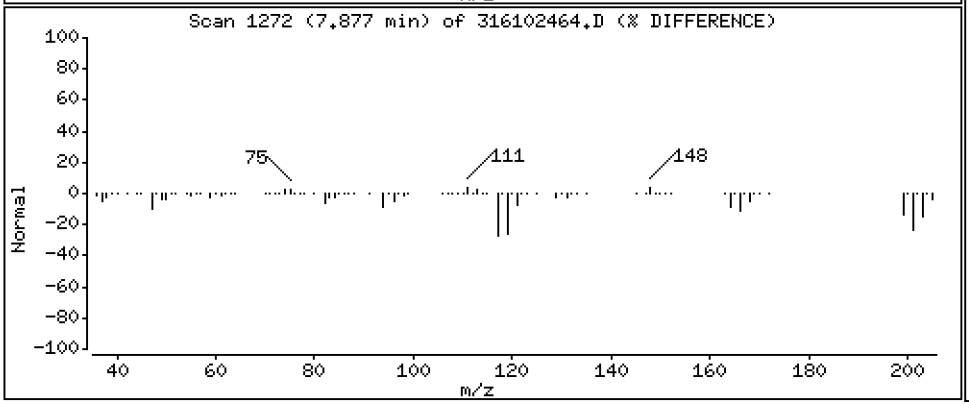












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 118

Date : 25-OCT-2016 03:26

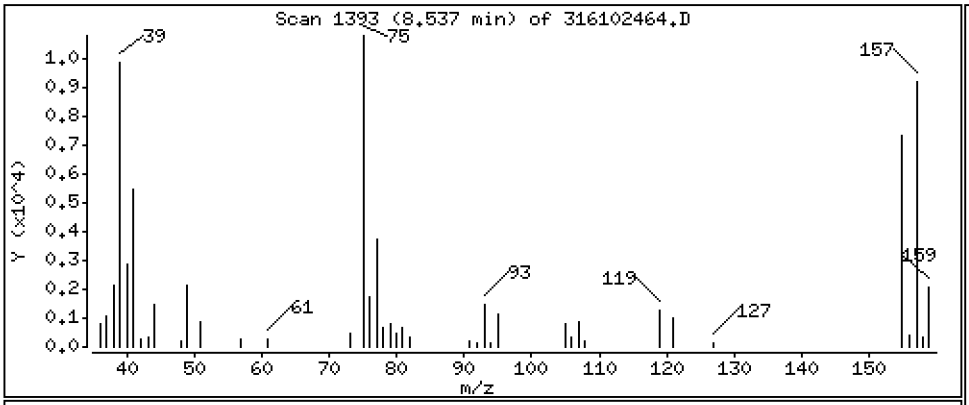
Client ID: LCS for HBN 174041 Instrument: ms03.i

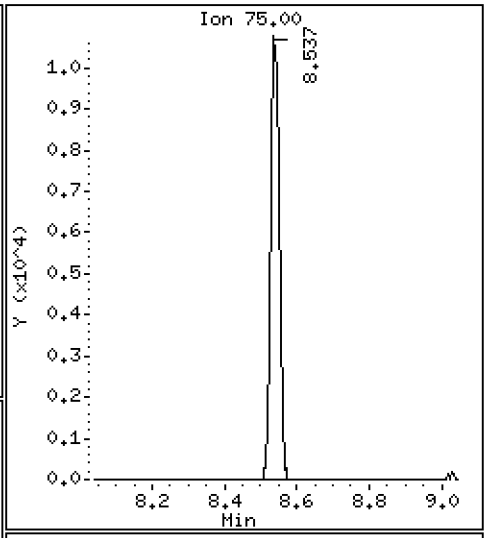
Sample Info: 2428716;;1;3;;LCS;1;

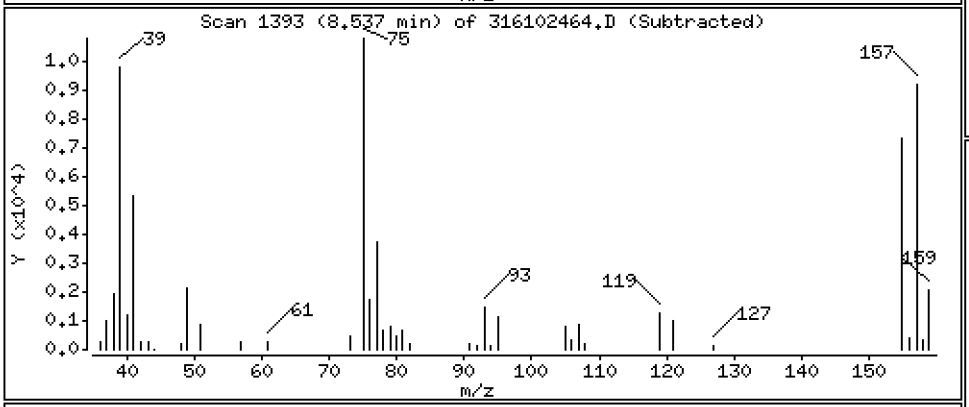
Purge Volume: 5.0 Operator: CJG

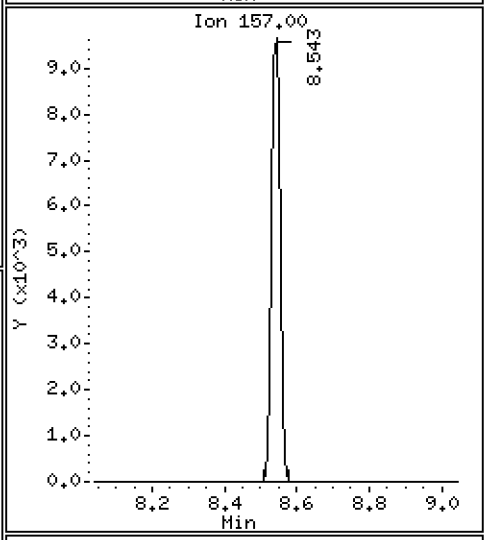
Column phase: DB-VRX Column diameter: 0.25

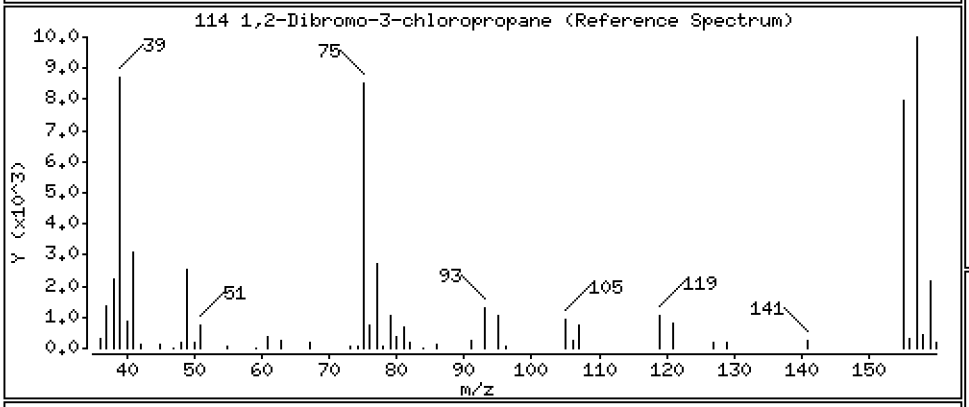
114 1,2-Dibromo-3-chloropropane Concentration: 17.9648 ug/L

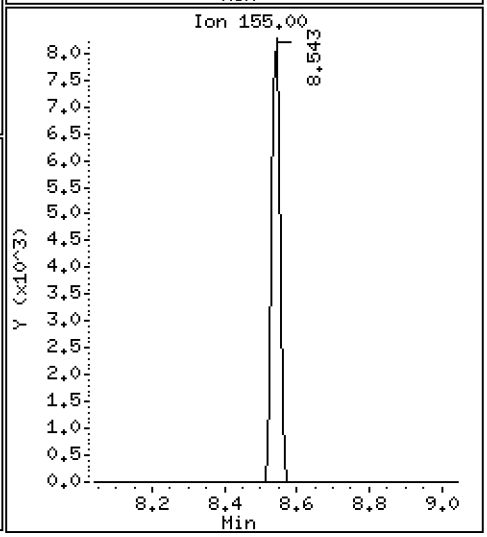


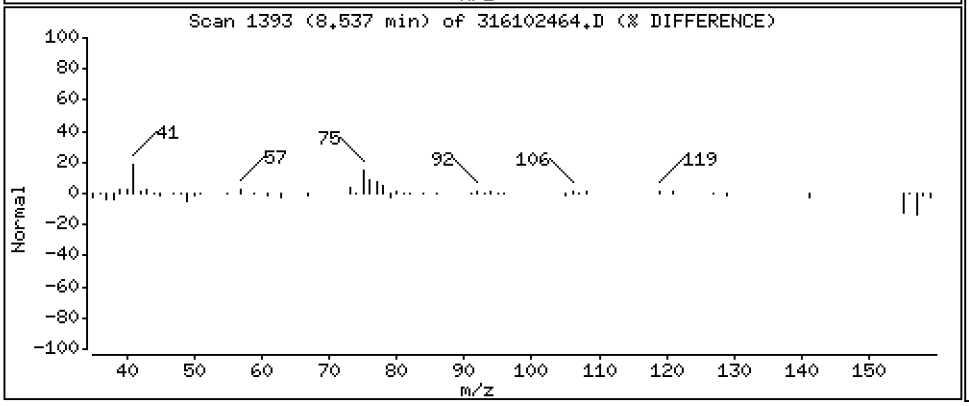












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 119

Date : 25-OCT-2016 03:26

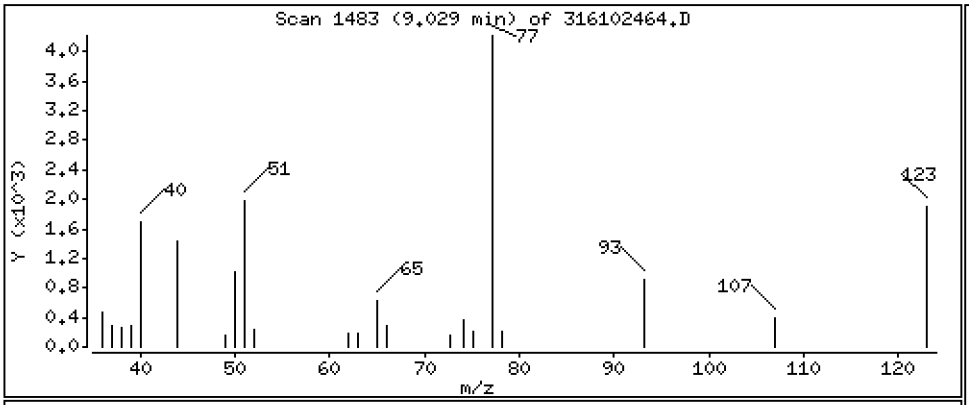
Client ID: LCS for HBN 174041 Instrument: ms03.i

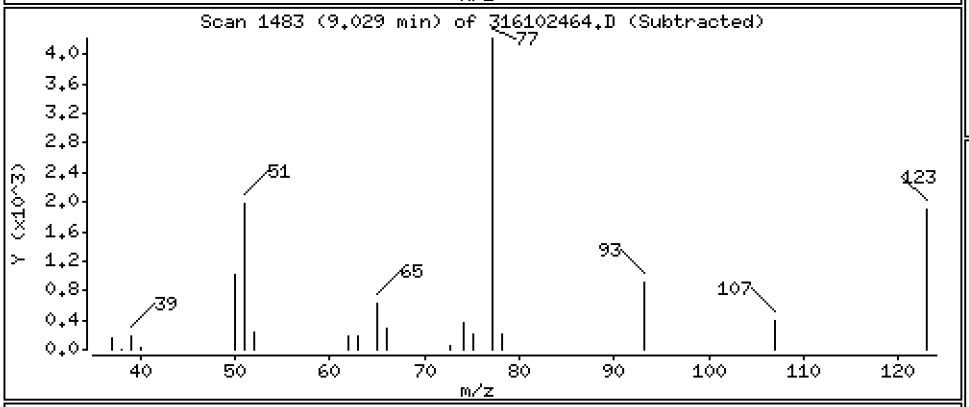
Sample Info: 2428716;;1;3;;LCS;1;

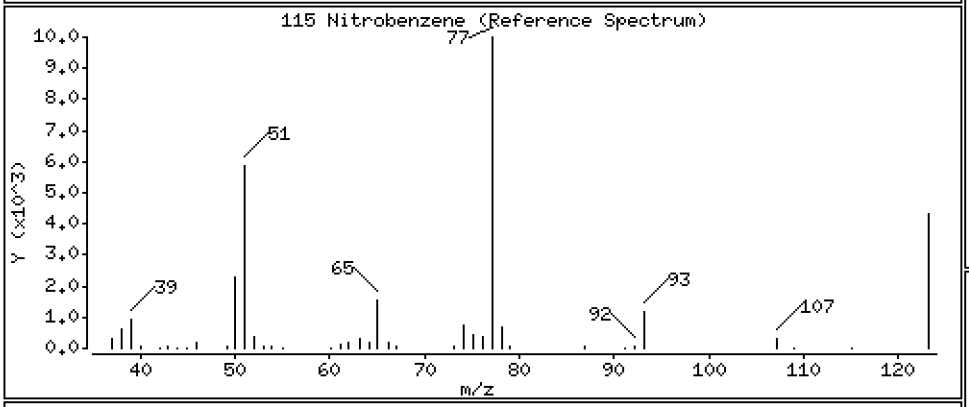
Purge Volume: 5.0 Operator: CJG

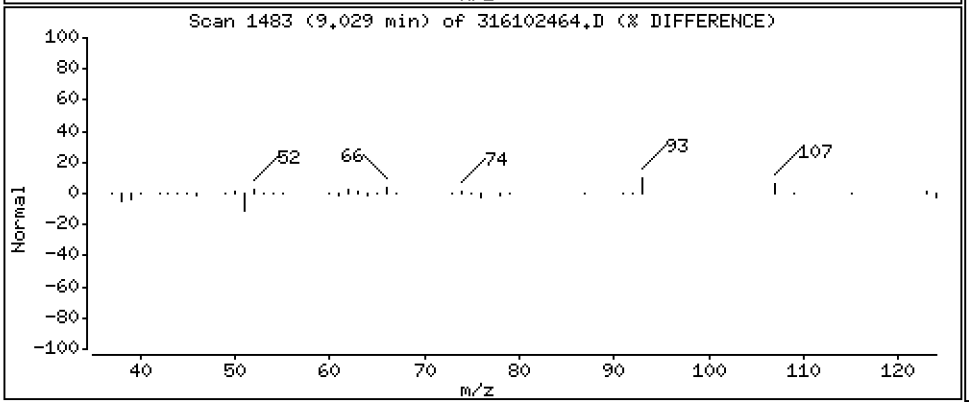
Column phase: DB-VRX Column diameter: 0.25

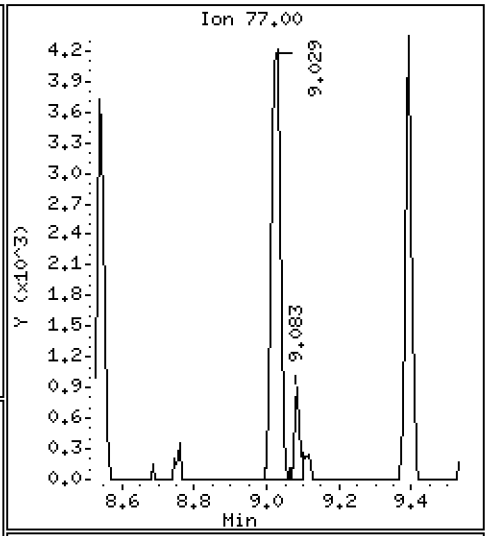
115 Nitrobenzene Concentration: 286.050 ug/L

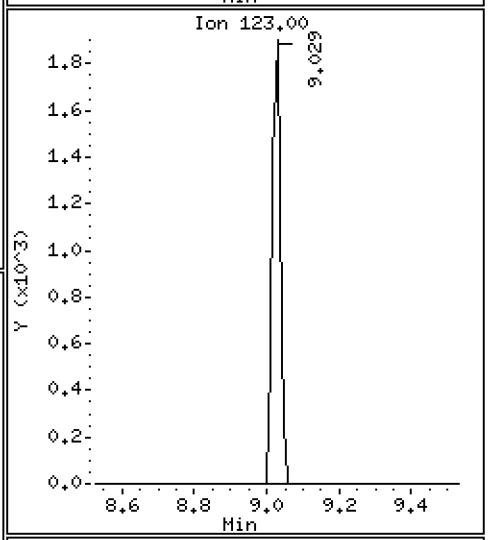


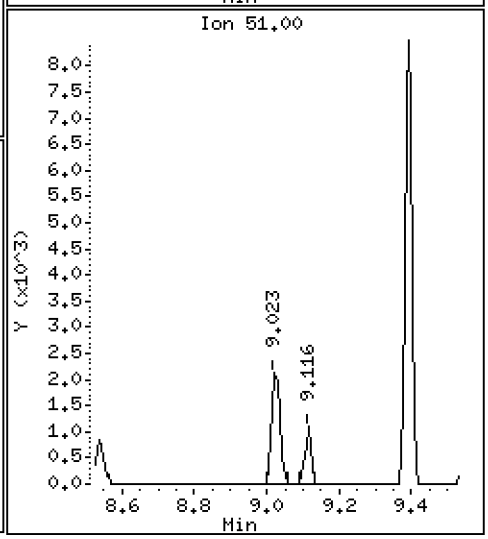












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 120

Date : 25-OCT-2016 03:26

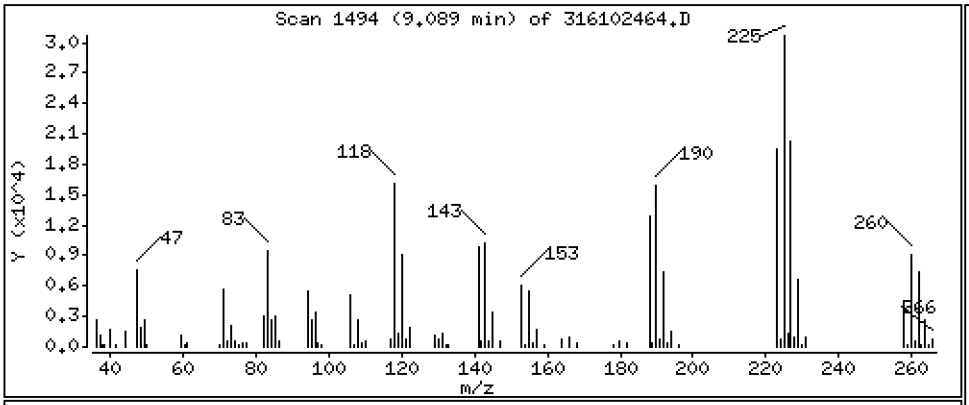
Client ID: LCS for HBN 174041 Instrument: ms03.i

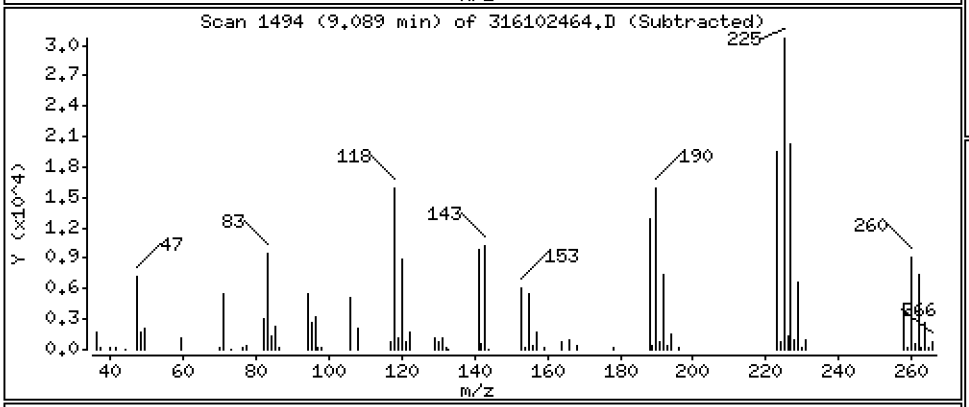
Sample Info: 2428716;;1;3;;LCS;1;

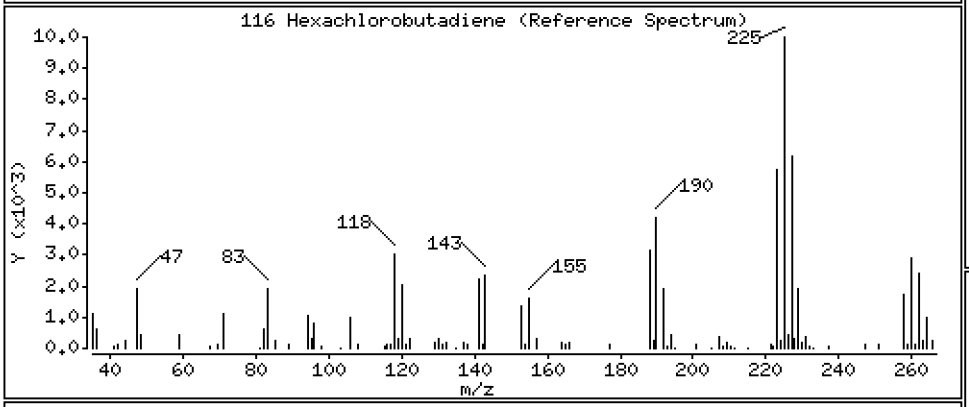
Purge Volume: 5.0 Operator: CJG

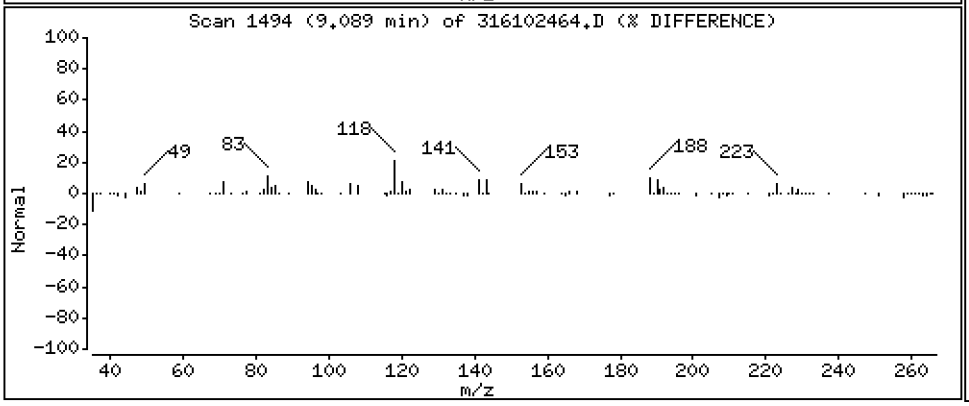
Column phase: DB-VRX Column diameter: 0.25

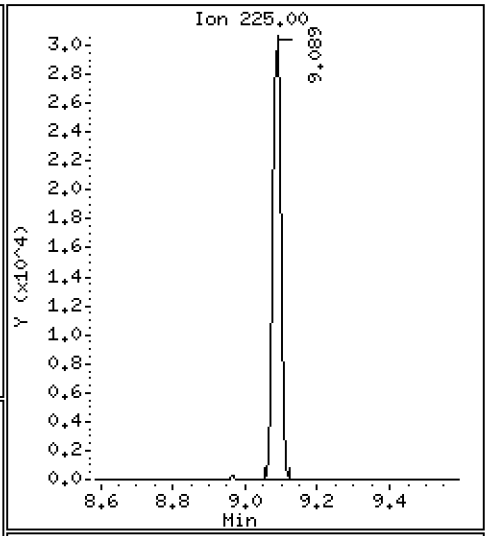
116 Hexachlorobutadiene Concentration: 20.7131 ug/L

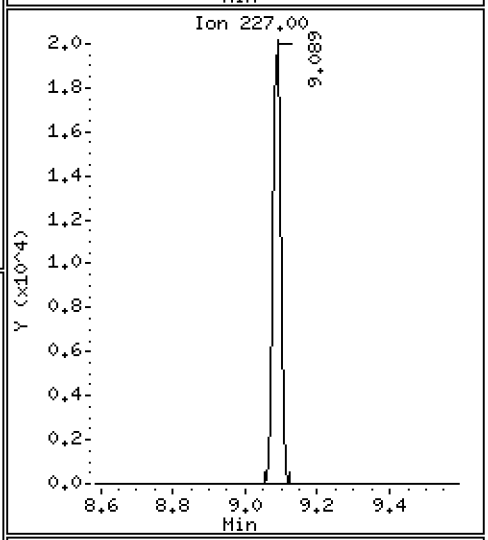


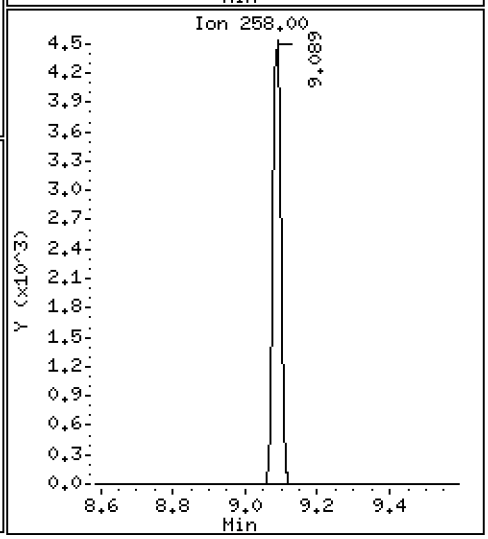












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 121

Date : 25-OCT-2016 03:26

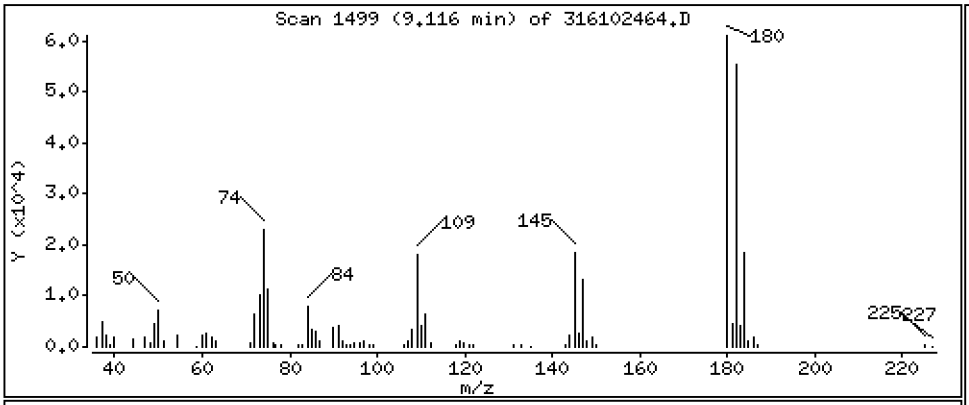
Client ID: LCS for HBN 174041 Instrument: ms03.i

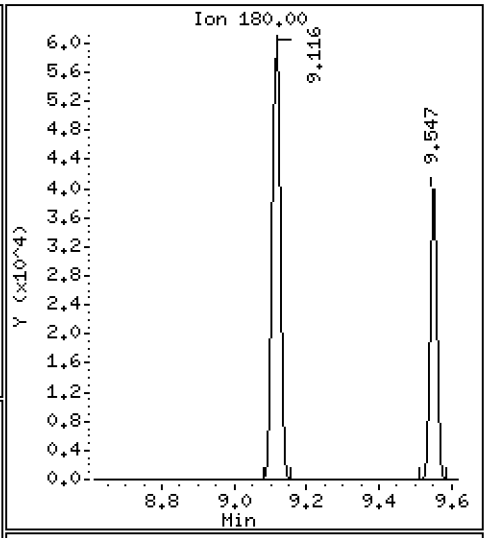
Sample Info: 2428716;;1;3;;LCS;1;

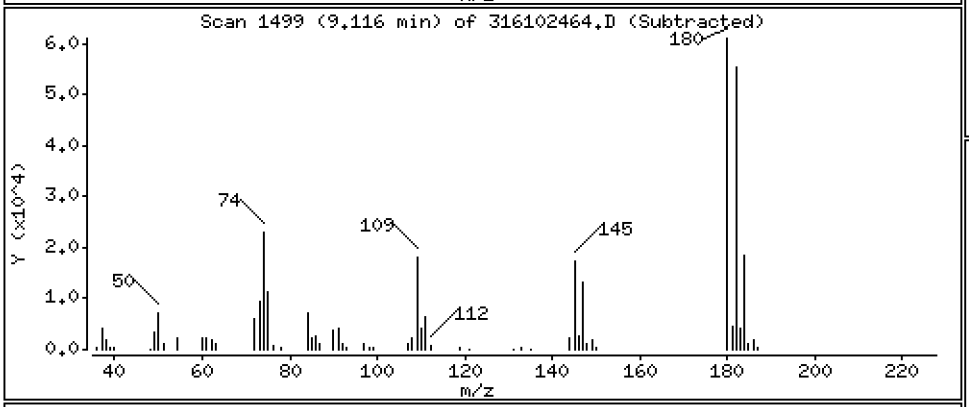
Purge Volume: 5.0 Operator: CJG

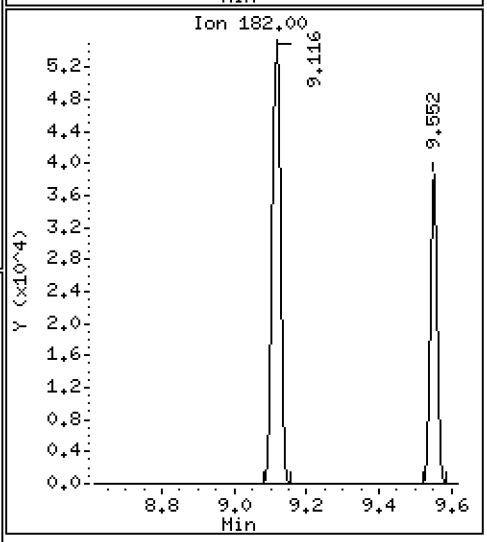
Column phase: DB-VRX Column diameter: 0.25

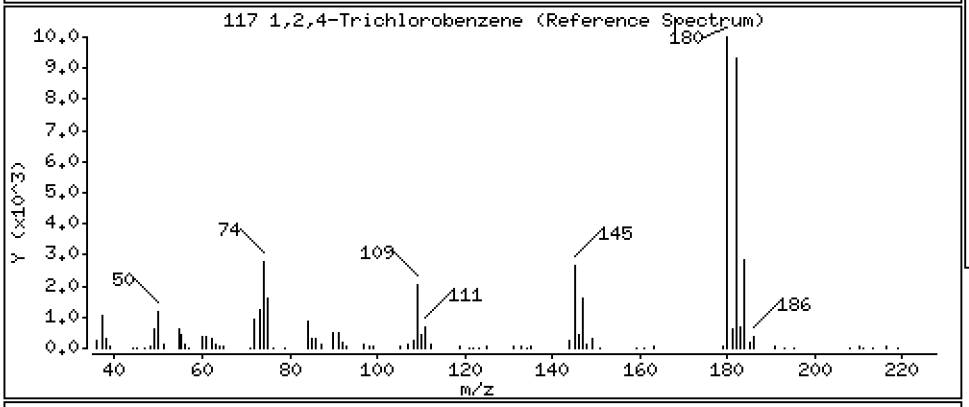
117 1,2,4-Trichlorobenzene Concentration: 18.4251 ug/L

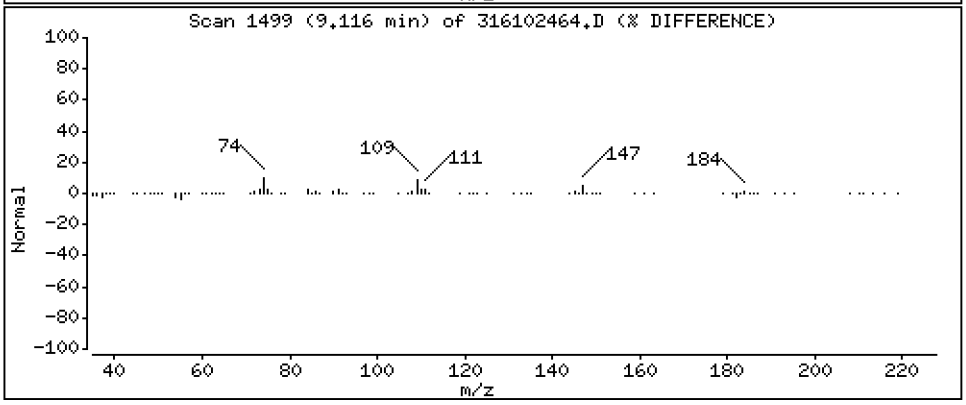












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 122

Date : 25-OCT-2016 03:26

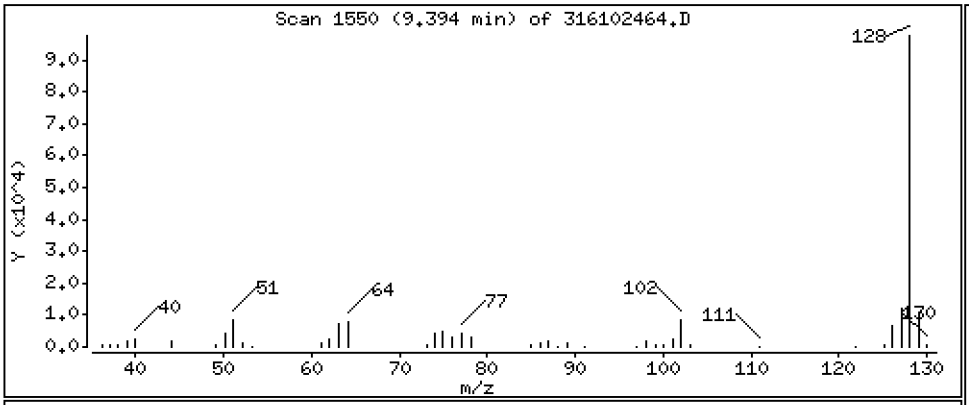
Client ID: LCS for HBN 174041 Instrument: ms03.i

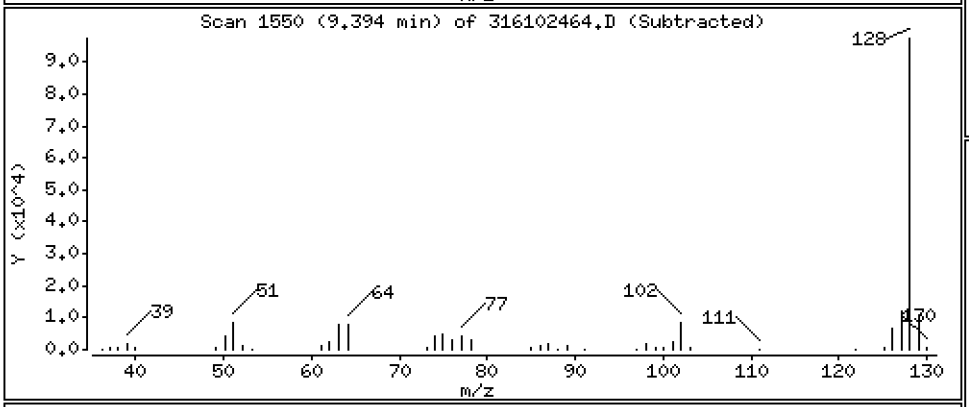
Sample Info: 2428716;;1;3;;LCS;1;

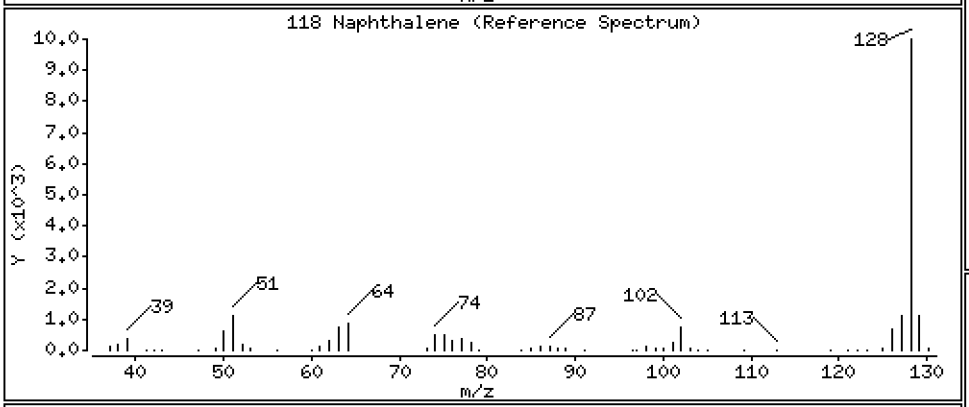
Purge Volume: 5.0 Operator: CJG

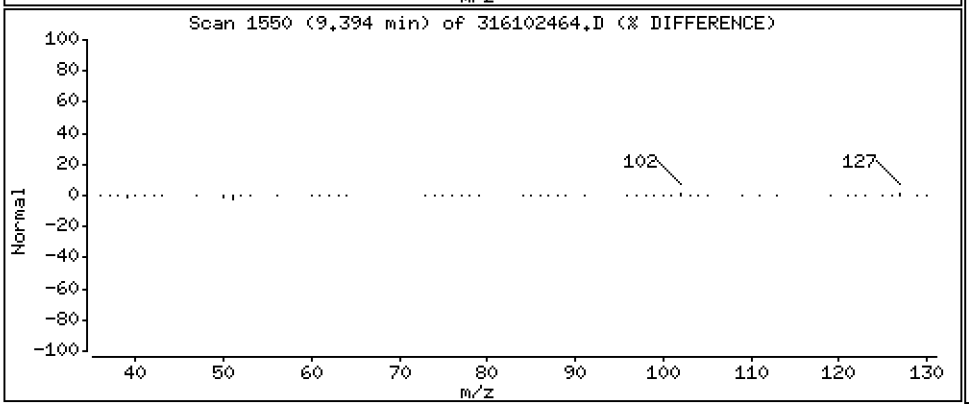
Column phase: DB-VRX Column diameter: 0.25

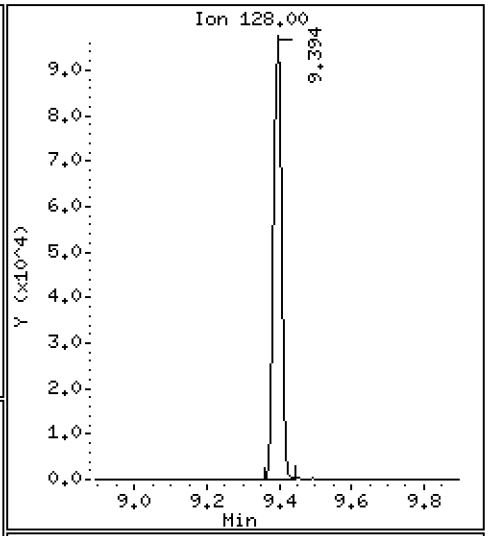
118 Naphthalene Concentration: 16.3213 ug/L

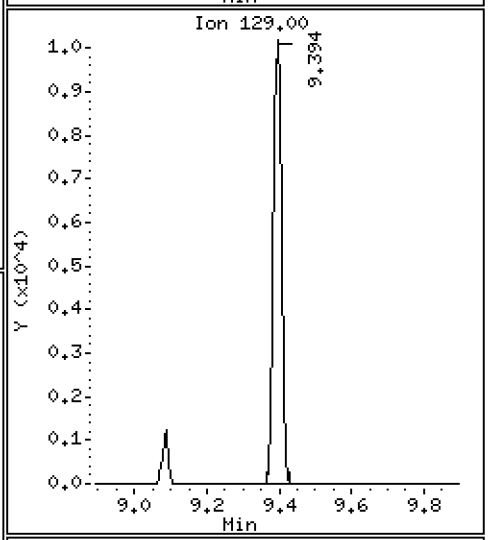


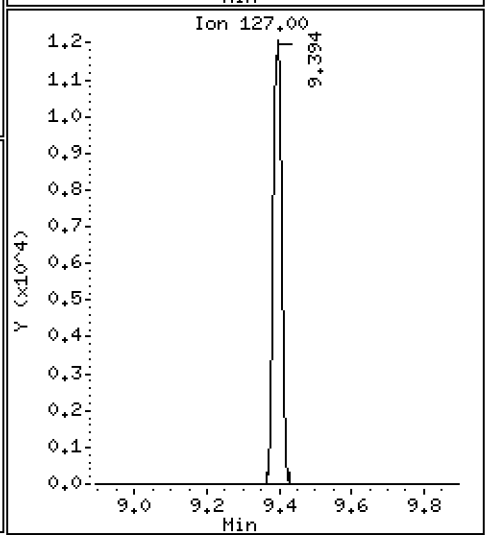












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 123

Date : 25-OCT-2016 03:26

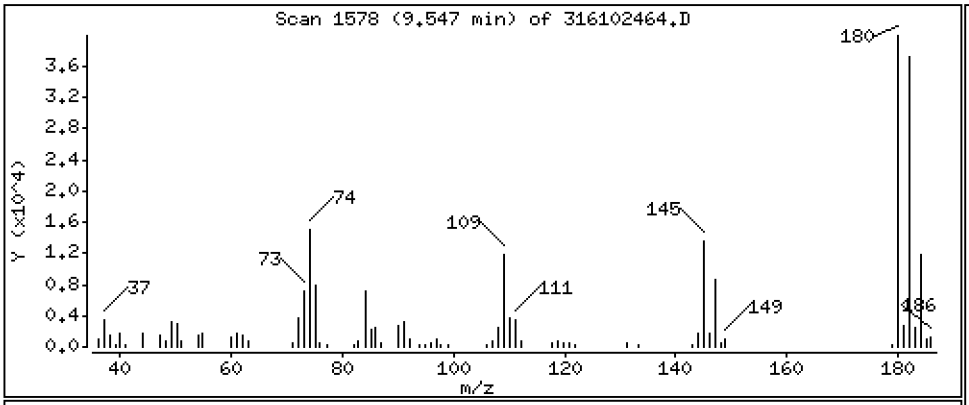
Client ID: LCS for HBN 174041 Instrument: ms03.i

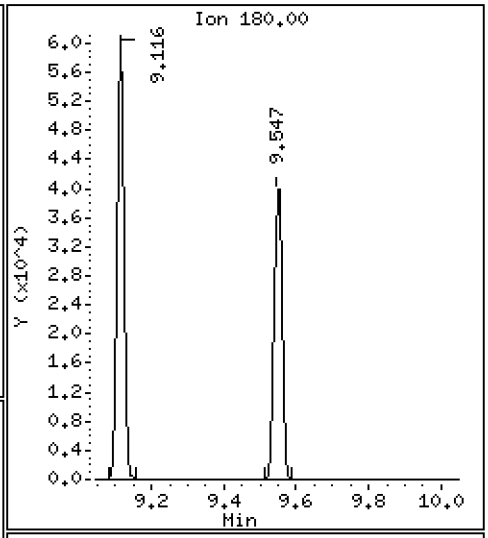
Sample Info: 2428716;;1;3;;LCS;1;

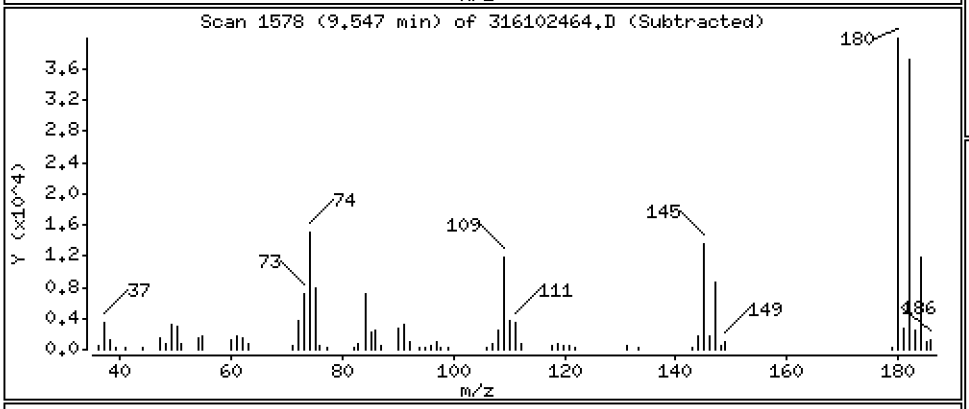
Purge Volume: 5.0 Operator: CJG

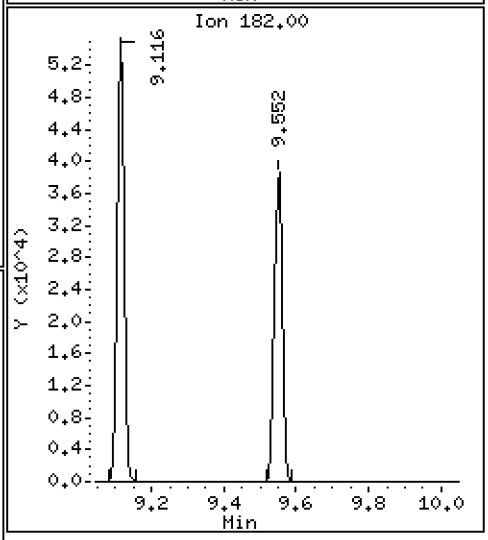
Column phase: DB-VRX Column diameter: 0.25

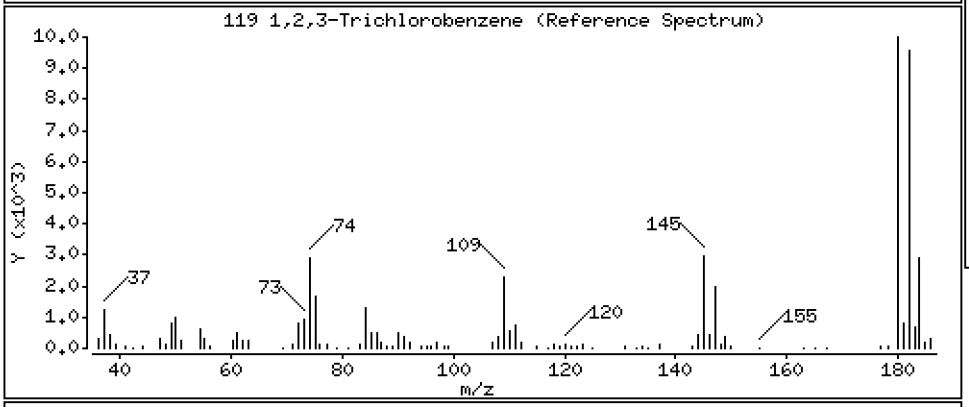
119 1,2,3-Trichlorobenzene Concentration: 18.4598 ug/L

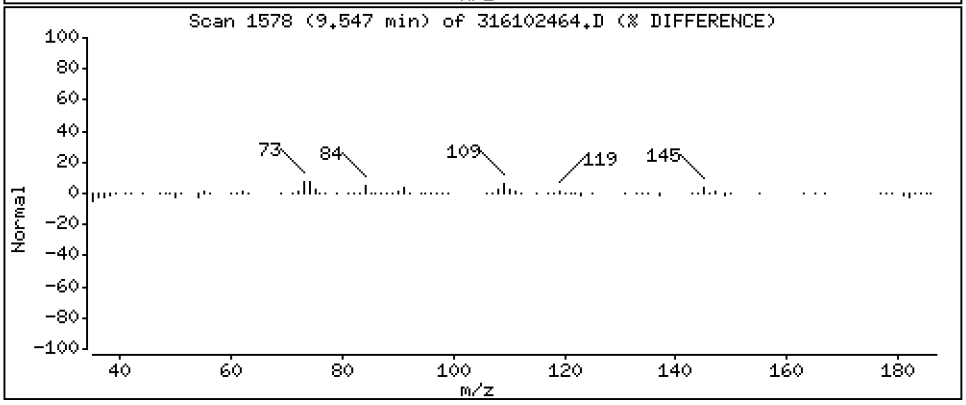












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 124

Date : 25-OCT-2016 03:26

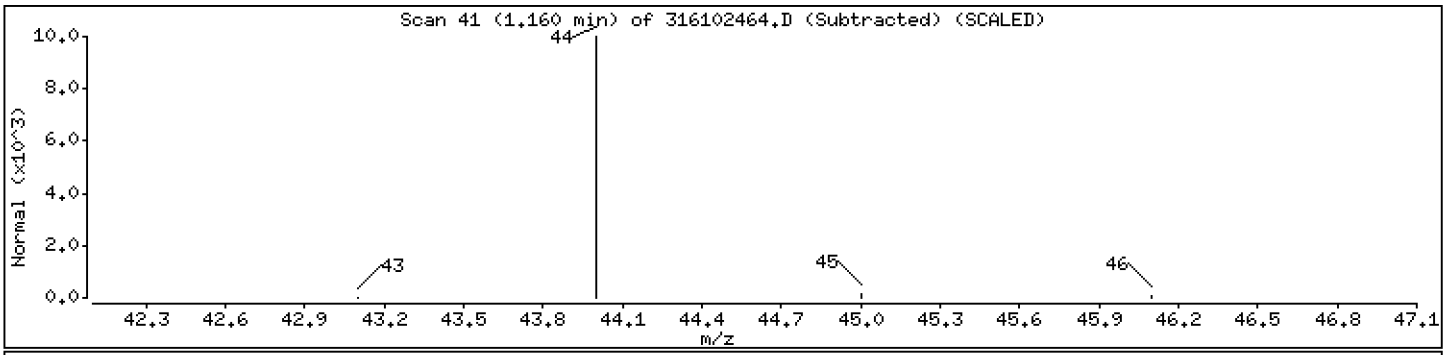
Client ID: LCS for HBN 174041 Instrument: ms03.i

Sample Info: 2428716;;1;3;;LCS;1;

Purge Volume: 5.0 Operator: CJG

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102464.D Page 125

Date : 25-OCT-2016 03:26

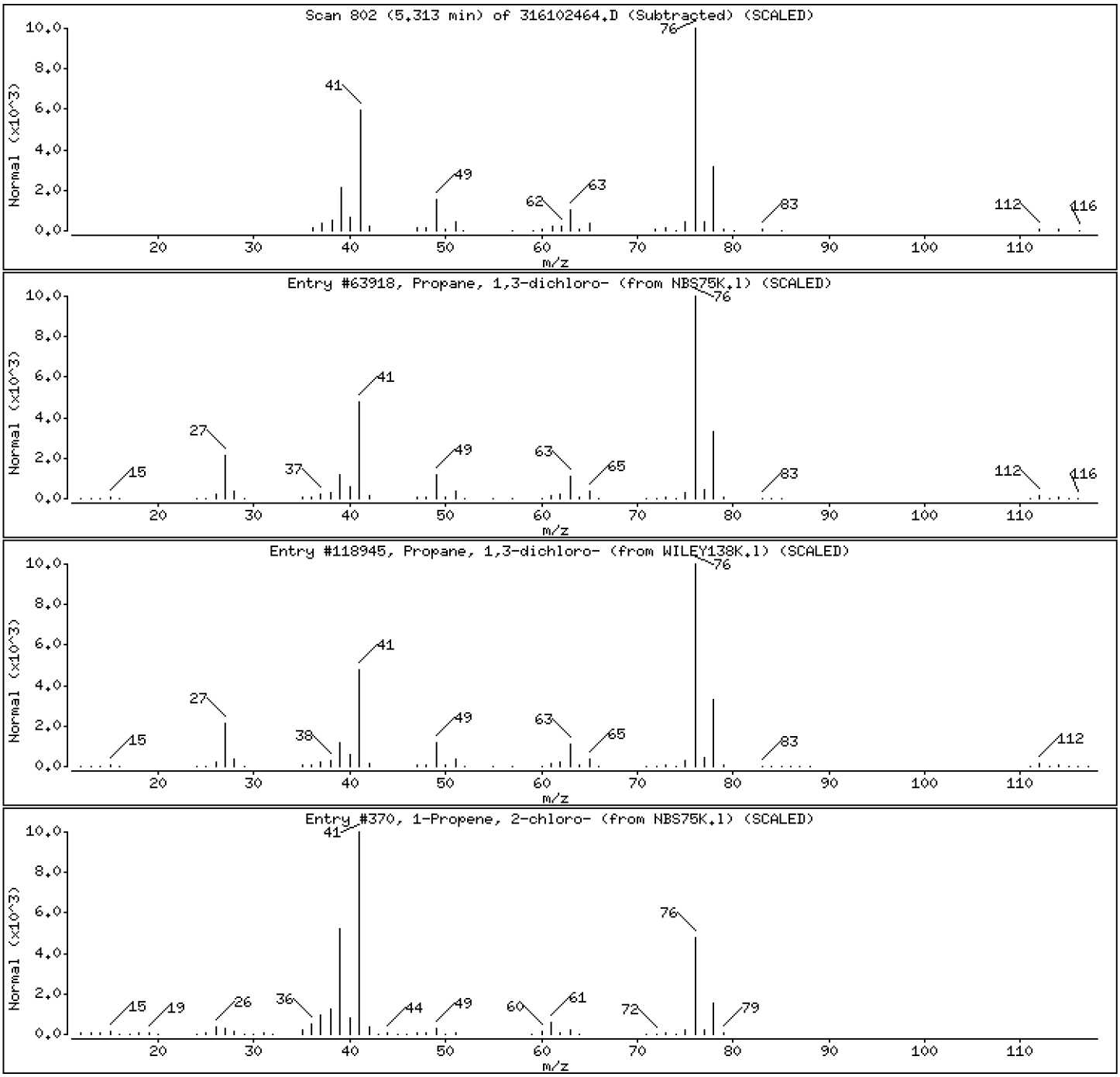
Client ID: LCS for HBN 174041 Instrument: ms03.i

Sample Info: 2428716;;1;3;;LCS;1;

Purge Volume: 5.0 Operator: CJG

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propane, 1,3-dichloro-	142-28-9	NBS75K.l	63918	83	C3H6C12	112
Propane, 1,3-dichloro-	142-28-9	WILEY138K.l	118945	83	C3H6C12	112
1-Propene, 2-chloro-	557-98-2	NBS75K.l	370	78	C3H5Cl	76

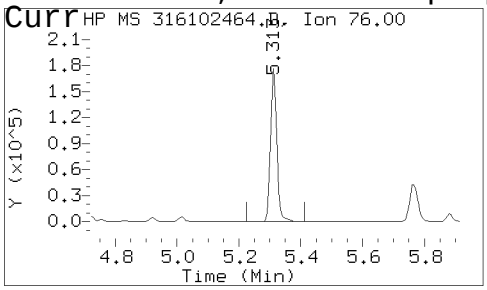


MANUAL INTEGRATION REPORT

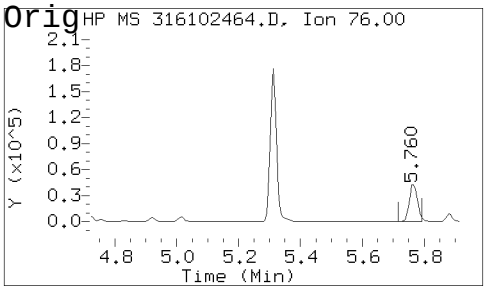
Report Date: 10/25/2016 10:11
Lab Sample ID: 2428716 Client ID: LCS for HBN 174041
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102464.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102464.D
Injection Date: 25-OCT-2016 03:26 Operator: CJG

1,3-Dichloropropane

Curr



Orig



Curr. Area: 246087
Orig. Area: 79297

Curr. ON-COL: 17.9384
Orig. ON-COL: 5.78033

UNASSIGNED PEAK REPORT

Report Date: 10/25/2016 10:11
Lab Sample ID: 2428716 Client ID: LCS for HBN 174041
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102464.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102464.D
Injection Date: 25-OCT-2016 03:26 Operator: CJG

Continuing Calibrations

Data File: 316102480.D Page 1
Report Date: 25-Oct-2016 10:29

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610248
Lab Smp Id: 1801
Inj Date : 25-OCT-2016 09:17
Operator : CJG Inst ID: ms03.i
Smp Info : 1801;;1;2;4;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b0
Meth Date : 25-Oct-2016 10:10 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 30 QC Sample:
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.259	(0.332)	654901	54.2182	54.2182	
2 Chloromethane	50	1.389	1.390	(0.367)	601836	55.1837	55.1837	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	654932	54.0966	54.0966	
4 Bromomethane	94	1.640	1.646	(0.433)	229528	47.3514	47.3514	
5 Chloroethane	64	1.716	1.723	(0.453)	402277	53.8102	53.8102	
6 Pentane	41	1.793	1.794	(0.473)	297540	46.1610	46.1610	
7 Trichlorofluoromethane	101	1.798	1.799	(0.475)	708497	52.0044	52.0044	
8 Dichlorofluoromethane	67	1.826	1.826	(0.482)	803875	44.2184	44.2184	
9 Ethyl Ether	74	1.967	1.968	(0.519)	272246	45.0271	45.0271	
10 1,1-Dichloroethene	61	2.087	2.088	(0.551)	547320	43.5434	43.5434	
12 Carbon Disulfide	76	2.120	2.121	(0.559)	883363	41.1974	41.1974	
11 Freon 113	101	2.098	2.105	(0.554)	298488	42.1057	42.1057	
13 Iodomethane	127	2.180	2.181	(0.575)	91955	47.4847	47.4847	
14 Acrolein	56	2.273	2.274	(0.600)	550922	466.804	466.804	
16 3-Chloro-1-propene	41	2.344	2.345	(0.619)	407424	38.9072	38.9072	
15 Isopropyl Alcohol	45	2.333	2.334	(0.616)	89213	331.836	331.836	
17 Methylene Chloride	84	2.404	2.405	(0.634)	386082	47.4578	47.4578	
18 Acetone	58	2.426	2.427	(0.640)	160666	246.522	246.522	
19 Methyl acetate	74	2.480	2.481	(0.655)	61800	47.7866	47.7866(Q)	
20 trans-1,2-Dichloroethene	61	2.486	2.487	(0.656)	553933	45.3409	45.3409	
21 Hexane	57	2.519	2.519	(0.665)	762518	44.3159	44.3159	

Data File: 316102480.D Page 2
Report Date: 25-Oct-2016 10:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
22 Methyl t-Butyl Ether	73	2.529	2.530	(0.667)	991595	47.0318	47.0318	
23 tert.- Butyl Alcohol	59	2.568	2.563	(0.678)	133115	293.368	293.368	
24 Acetonitrile	41	2.682	2.683	(0.708)	205320	299.923	299.923	
25 Diisopropyl ether	45	2.720	2.721	(0.718)	1362581	49.3766	49.3766	
26 Chloroprene	53	2.797	2.798	(0.738)	575692	47.7884	47.7884	
27 1,1-Dichloroethane	63	2.813	2.814	(0.742)	732223	46.0352	46.0352	
28 Acrylonitrile	53	2.840	2.841	(0.750)	700171	243.144	243.144	
30 n-Propanol	41	2.911	2.912	(0.768)	266622	542.301	542.301(Q)	
29 Ethyl tert-butyl ether	59	2.911	2.912	(0.768)	1156082	49.3547	49.3547	
31 Vinyl acetate	86	2.928	2.929	(0.773)	78156	44.9020	44.9020	
32 cis-1,2-Dichloroethene	61	3.097	3.098	(0.817)	558849	45.7703	45.7703	
33 2,2-Dichloropropane	77	3.157	3.158	(0.833)	338994	35.1598	35.1598	
M 100 1,2-Dichloroethene, Total	61				1112782	91.1112	91.1112	
34 Bromochloromethane	128	3.206	3.207	(0.846)	156445	46.0563	46.0563	
35 Cyclohexane	84	3.211	3.212	(0.847)	597744	45.5602	45.5602	
36 Chloroform	83	3.233	3.234	(0.853)	715888	49.1857	49.1857	
37 Ethyl acetate	43	3.282	3.278	(0.866)	360555	51.5948	51.5948	
38 Methyl acrylate	55	3.293	3.294	(0.869)	344541	50.8347	50.8347	
39 Carbon Tetrachloride	117	3.326	3.321	(0.878)	390357	46.6262	46.6262	
40 Tetrahydrofuran	42	3.332	3.327	(0.879)	572038	258.350	258.350	
$ 41 Dibromofluoromethane	113	3.337	3.338	(0.881)	295838	45.0770	45.0770	
42 1,1,1-Trichloroethane	97	3.359	3.360	(0.886)	528013	47.3195	47.3195	
43 2-Butanone	72	3.397	3.398	(0.896)	240273	254.573	254.573	
44 1,1-Dichloropropene	75	3.424	3.425	(0.904)	543170	46.0482	46.0482	
45 1-Chlorobutane	41	3.446	3.447	(0.909)	439516	51.3855	51.3855	
46 Heptane	71	3.512	3.512	(0.927)	235762	43.8094	43.8094	
48 Propionitrile	54	3.577	3.578	(0.944)	270394	250.925	250.925	
47 Benzene	78	3.561	3.567	(0.940)	1674519	45.9812	45.9812	
49 Methacrylonitrile	67	3.588	3.583	(0.947)	158992	47.9500	47.9500	
50 tert-amyl methyl Ether	73	3.599	3.600	(0.950)	921343	48.6770	48.6770	
$ 51 1,2-Dichloroethane-d4	65	3.637	3.638	(0.960)	388862	49.8107	49.8107	
54 Isobutyl alcohol	43	3.632	3.632	(0.958)	142979	726.494	726.494(Q)	
52 1,2-Dichloroethane	62	3.675	3.676	(0.970)	495400	45.9320	45.9320	
53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	100668	268.591	268.591	
* 55 Fluorobenzene	96	3.790	3.791	(1.000)	995338	30.0000		
56 Diisobutylene	57	3.795	3.796	(1.001)	1071069	52.4587	52.4587	
57 Trichloroethene	95	3.883	3.883	(1.024)	379768	43.8083	43.8083	
58 Methyl cyclohexane	83	3.883	3.883	(0.674)	637693	44.8020	44.8020	
59 tert-Amyl Ethylether	59	3.992	3.987	(1.053)	843159	50.0091	50.0091	
60 Dibromomethane	93	4.139	4.139	(1.092)	206320	46.6302	46.6302	
61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	425018	47.4903	47.4903	
62 Bromodichloromethane	83	4.221	4.222	(1.114)	431671	47.9239	47.9239	
63 Methyl methacrylate	41	4.292	4.293	(1.132)	325085	52.7107	52.7107	
64 1,4-Dioxane	88	4.335	4.336	(1.144)	74770	2517.97	2517.97(R)	
65 2-Chloroethylvinyl ether	63	4.548	4.549	(1.200)	189157	43.3983	43.3983	
66 cis-1,3-Dichloropropene	75	4.603	4.604	(0.799)	548513	47.4055	47.4055	
67 Octane	85	4.608	4.609	(0.800)	148173	42.6346	42.6346	
$ 68 Toluene-d8	98	4.723	4.724	(0.820)	1290744	48.5545	48.5545	
69 Toluene	92	4.756	4.756	(0.826)	945876	46.3081	46.3081	
70 Chloroacetonitrile	48	4.827	4.833	(0.838)	50017	268.693	268.693	
71 2-Nitropropane	41	4.908	4.909	(0.852)	375623	247.303	247.303	
72 1,1-Dichloro-2-propanone	63	4.919	4.920	(0.854)	35059	248.633	248.633	
73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.986	(0.865)	1889365	268.312	268.312	
75 trans-1,3-Dichloropropene	75	5.012	5.013	(0.870)	484323	48.1721	48.1721	

Data File: 316102480.D Page 3
Report Date: 25-Oct-2016 10:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	260070	52.1798	52.1798	
	76 Ethyl methacrylate	69	5.094	5.095	(0.884)	485348	52.6737	52.6737	
	77 1,1,2-Trichloroethane	83	5.127	5.122	(0.890)	271383	45.7039	45.7039	
	78 Chlorodibromomethane	129	5.247	5.247	(0.911)	251846	47.1613	47.1613	
	79 1,3-Dichloropropane	76	5.312	5.313	(0.922)	583169	45.5083	45.5083(M)	H
	80 1,2-Dibromoethane	107	5.421	5.422	(0.941)	276832	46.8712	46.8712	
	81 2-Hexanone	43	5.541	5.542	(0.962)	1235113	276.917	276.917	
	82 1-Chlorohexane	91	5.738	5.739	(0.996)	489997	47.0370	47.0370	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	428774	30.0000		
	85 Ethylbenzene	106	5.781	5.782	(1.004)	526413	44.9741	44.9741	
	84 Chlorobenzene	112	5.771	5.777	(1.002)	927596	43.2863	43.2863	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.815	(1.009)	268791	47.7705	47.7705	
	87 mp-Xylene	106	5.880	5.880	(1.021)	1252351	91.6912	91.6912	
M	120 1,3-Dichloropropene, Total	75				1032836	95.5776	95.5776	
	88 o-Xylene	106	6.196	6.197	(1.076)	579266	47.7682	47.7682	
	89 Styrene	104	6.234	6.235	(0.829)	970055	48.7807	48.7807	
	90 Bromoform	173	6.262	6.262	(0.832)	101277	39.6537	39.6537	
	91 Isopropylbenzene	105	6.425	6.426	(0.854)	1534980	47.2391	47.2391	
$	92 4-Bromofluorobenzene	174	6.649	6.650	(0.884)	266795	48.0752	48.0752	
M	121 TOTAL XYLENES	106				1831617	139.459	139.459	
	94 n-Propylbenzene	120	6.736	6.737	(0.896)	394263	47.9833	47.9833	
	93 Bromobenzene	156	6.731	6.732	(0.895)	299093	43.9073	43.9073	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.792	(0.903)	365718	46.4111	46.4111	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.915)	1164142	48.9293	48.9293	
	96 o-Chlorotoluene	91	6.867	6.868	(0.913)	1191166	46.6857	46.6857	
	98 1,2,3-Trichloropropane	110	6.905	6.906	(0.918)	104935	44.8027	44.8027	
	99 trans-1,4-Dichloro-2-butene	53	6.933	6.933	(0.922)	68070	36.1748	36.1748(Q)	
	101 p-Chlorotoluene	91	6.993	6.994	(0.930)	1082426	46.5669	46.5669	
	102 tert-Butylbenzene	134	7.140	7.141	(0.949)	255341	47.3931	47.3931	
	103 Pentachloroethane	117	7.162	7.163	(0.952)	196990	43.9195	43.9195(Q)	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.956)	1151215	49.4866	49.4866	
	105 sec-Butylbenzene	105	7.276	7.277	(0.967)	1441957	48.4686	48.4686	
	106 p-Isopropyltoluene	134	7.391	7.392	(0.983)	280110	49.4169	49.4169	
	107 1,3-Dichlorobenzene	146	7.462	7.463	(0.992)	535297	48.0636	48.0636	
*	108 1,4-Dichlorobenzene-d4	152	7.522	7.523	(1.000)	268130	30.0000		
	109 1,4-Dichlorobenzene	146	7.533	7.534	(1.001)	540980	48.1247	48.1247	
	111 n-Butylbenzene	134	7.735	7.736	(1.028)	236868	47.4542	47.4542(Q)	
	110 Benzyl Chloride	126	7.735	7.736	(1.028)	39135	26.7826	26.7826(Q)	
	112 Hexachloroethane	117	7.849	7.850	(1.044)	152678	44.0800	44.0800	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.047)	479423	47.8411	47.8411	
	114 1,2-Dibromo-3-chloropropane	75	8.542	8.542	(1.136)	40140	47.7446	47.7446	
	115 Nitrobenzene	77	9.023	9.029	(1.199)	8451	305.340	305.340	
	116 Hexachlorobutadiene	225	9.088	9.089	(1.208)	87926	47.1264	47.1264	
	117 1,2,4-Trichlorobenzene	180	9.115	9.116	(1.212)	196312	45.8233	45.8233	
	118 Naphthalene	128	9.394	9.394	(1.249)	359518	45.1577	45.1577	
	119 1,2,3-Trichlorobenzene	180	9.552	9.547	(1.270)	127704	45.8649	45.8649	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 316102480.D Page 4
Report Date: 25-Oct-2016 10:29

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 25-OCT-2016
Lab File ID: 316102480.D Calibration Time: 00:52
Lab Smp Id: 1801
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: CJG
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	995338	-1.76
83 Chlorobenzene-d5	432864	216432	865728	428774	-0.94
108 1,4-Dichlorobenze	273837	136919	547674	268130	-2.08

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	-0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	-0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102480.D Page 5
Report Date: 25-Oct-2016 10:29

ALS Environmental Services

RECOVERY REPORT

Client Name: Client SDG: 3161024A.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 1801
Level: LOW Operator: CJG
Data Type: MS DATA SampleType:
SpikeList File: DODENDCCV.spk Quant Type: ISTD
Sublist File: DODall.sub
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\3-8260b
Misc Info:

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.0000	54.2182	108.44	50-150
2	Chloromethane	50.0000	55.1837	110.37	50-150
3	Vinyl Chloride	50.0000	54.0966	108.19	50-150
4	Bromomethane	50.0000	47.3514	94.70	50-150
5	Chloroethane	50.0000	53.8102	107.62	50-150
6	Pentane	50.0000	46.1610	92.32	50-150
7	Trichlorofluoromet	50.0000	52.0044	104.01	50-150
8	Dichlorofluorometh	50.0000	44.2184	88.44	50-150
9	Ethyl Ether	50.0000	45.0271	90.05	50-150
10	1,1-Dichloroethene	50.0000	43.5434	87.09	50-150
11	Freon 113	50.0000	42.1057	84.21	50-150
12	Carbon Disulfide	50.0000	41.1974	82.39	50-150
13	Iodomethane	50.0000	47.4847	94.97	50-150
14	Acrolein	500.000	466.804	93.36	50-150
15	Isopropyl Alcohol	250.000	331.836	132.73	50-150
16	3-Chloro-1-propene	50.0000	38.9072	77.81	50-150
17	Methylene Chloride	50.0000	47.4578	94.92	50-150
18	Acetone	250.000	246.522	98.61	50-150
19	Methyl acetate	50.0000	47.7866	95.57	50-150
20	trans-1,2-Dichloro	50.0000	45.3409	90.68	50-150
21	Hexane	50.0000	44.3159	88.63	50-150
22	Methyl t-Butyl Eth	50.0000	47.0318	94.06	50-150
23	tert.- Butyl Alcoh	250.000	293.368	117.35	50-150
24	Acetonitrile	250.000	299.923	119.97	50-150
25	Diisopropyl ether	50.0000	49.3766	98.75	50-150
26	Chloroprene	50.0000	47.7884	95.58	50-150
27	1,1-Dichloroethane	50.0000	46.0352	92.07	50-150
28	Acrylonitrile	250.000	243.144	97.26	50-150
30	n-Propanol	500.000	542.301	108.46	50-150
29	Ethyl tert-butyl e	50.0000	49.3547	98.71	50-150
31	Vinyl acetate	50.0000	44.9020	89.80	50-150
32	cis-1,2-Dichloroet	50.0000	45.7703	91.54	50-150
33	2,2-Dichloropropan	50.0000	35.1598	70.32	50-150
34	Bromochloromethane	50.0000	46.0563	92.11	50-150
35	Cyclohexane	50.0000	45.5602	91.12	50-150
36	Chloroform	50.0000	49.1857	98.37	50-150
37	Ethyl acetate	50.0000	51.5948	103.19	50-150
38	Methyl acrylate	50.0000	50.8347	101.67	50-150
39	Carbon Tetrachlori	50.0000	46.6262	93.25	50-150
40	Tetrahydrofuran	250.000	258.350	103.34	50-150

Data File: 316102480.D Page 6
Report Date: 25-Oct-2016 10:29

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
42	1,1,1-Trichloroeth	50.0000	47.3195	94.64	50-150
43	2-Butanone	250.000	254.573	101.83	50-150
44	1,1-Dichloropropen	50.0000	46.0482	92.10	50-150
45	1-Chlorobutane	50.0000	51.3855	102.77	50-150
46	Heptane	50.0000	43.8094	87.62	50-150
47	Benzene	50.0000	45.9812	91.96	50-150
48	Propionitrile	250.000	250.925	100.37	50-150
49	Methacrylonitrile	50.0000	47.9500	95.90	50-150
50	tert-amyl methyl E	50.0000	48.6770	97.35	50-150
54	Isobutyl alcohol	500.000	726.494	145.30	50-150
52	1,2-Dichloroethane	50.0000	45.9320	91.86	50-150
53	tert-Amyl Alcohol	250.000	268.591	107.44	50-150
56	Diisobutylene	50.0000	52.4587	104.92	50-150
57	Trichloroethene	50.0000	43.8083	87.62	50-150
58	Methyl cyclohexane	50.0000	44.8020	89.60	50-150
59	tert-Amyl Ethyleth	50.0000	50.0091	100.02	50-150
60	Dibromomethane	50.0000	46.6302	93.26	50-150
61	1,2-Dichloropropan	50.0000	47.4903	94.98	50-150
62	Bromodichlorometha	50.0000	47.9239	95.85	50-150
63	Methyl methacrylat	50.0000	52.7107	105.42	50-150
64	1,4-Dioxane	1250.00	2517.97	201.44*	50-150
65	2-Chloroethylvinyl	50.0000	43.3983	86.80	50-150
66	cis-1,3-Dichloropr	50.0000	47.4055	94.81	50-150
67	Octane	50.0000	42.6346	85.27	50-150
69	Toluene	50.0000	46.3081	92.62	50-150
70	Chloroacetonitrile	250.000	268.693	107.48	50-150
71	2-Nitropropane	250.000	247.303	98.92	50-150
72	1,1-Dichloro-2-pro	250.000	248.633	99.45	50-150
73	4-Methyl-2-Pentano	250.000	268.312	107.32	50-150
74	Tetrachloroethene	50.0000	52.1798	104.36	50-150
75	trans-1,3-Dichloro	50.0000	48.1721	96.34	50-150
76	Ethyl methacrylate	50.0000	52.6737	105.35	50-150
77	1,1,2-Trichloroeth	50.0000	45.7039	91.41	50-150
78	Chlorodibromometha	50.0000	47.1613	94.32	50-150
80	1,2-Dibromoethane	50.0000	46.8712	93.74	50-150
81	2-Hexanone	250.000	276.917	110.77	50-150
82	1-Chlorohexane	50.0000	47.0370	94.07	50-150
79	1,3-Dichloropropan	50.0000	45.5083	91.02	50-150
84	Chlorobenzene	50.0000	43.2863	86.57	50-150
85	Ethylbenzene	50.0000	44.9741	89.95	50-150
86	1,1,1,2-Tetrachlor	50.0000	47.7705	95.54	50-150
87	mp-Xylene	100.000	91.6912	91.69	50-150
88	o-Xylene	50.0000	47.7682	95.54	50-150
89	Styrene	50.0000	48.7807	97.56	50-150
90	Bromoform	50.0000	39.6537	79.31	50-150
91	Isopropylbenzene	50.0000	47.2391	94.48	50-150
93	Bromobenzene	50.0000	43.9073	87.81	50-150
94	n-Propylbenzene	50.0000	47.9833	95.97	50-150
95	1,1,2,2-Tetrachlor	50.0000	46.4111	92.82	50-150
96	o-Chlorotoluene	50.0000	46.6857	93.37	50-150
M 100	1,2-Dichloroethene	100.000	91.1112	91.11	50-150
97	1,3,5-Trimethylben	50.0000	48.9293	97.86	50-150
98	1,2,3-Trichloropro	50.0000	44.8027	89.61	50-150
99	trans-1,4-Dichloro	50.0000	36.1748	72.35	50-150

Data File: 316102480.D Page 7
Report Date: 25-Oct-2016 10:29

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	101 p-Chlorotoluene	50.0000	46.5669	93.13	50-150
	102 tert-Butylbenzene	50.0000	47.3931	94.79	50-150
	103 Pentachloroethane	50.0000	43.9195	87.84	50-150
	104 1,2,4-Trimethylben	50.0000	49.4866	98.97	50-150
	105 sec-Butylbenzene	50.0000	48.4686	96.94	50-150
	106 p-Isopropyltoluene	50.0000	49.4169	98.83	50-150
	107 1,3-Dichlorobenzen	50.0000	48.0636	96.13	50-150
	109 1,4-Dichlorobenzen	50.0000	48.1247	96.25	50-150
	110 Benzyl Chloride	50.0000	26.7826	53.57	50-150
	111 n-Butylbenzene	50.0000	47.4542	94.91	50-150
	112 Hexachloroethane	50.0000	44.0800	88.16	50-150
	113 1,2-Dichlorobenzen	50.0000	47.8411	95.68	50-150
	114 1,2-Dibromo-3-chlo	50.0000	47.7446	95.49	50-150
	115 Nitrobenzene	500.000	305.340	61.07	50-150
	116 Hexachlorobutadien	50.0000	47.1264	94.25	50-150
	117 1,2,4-Trichloroben	50.0000	45.8233	91.65	50-150
	118 Naphthalene	50.0000	45.1577	90.32	50-150
M	120 1,3-Dichloropropen	100.000	95.5776	95.58	50-150
	119 1,2,3-Trichloroben	50.0000	45.8649	91.73	50-150
M	121 TOTAL XYLENES	150.000	139.459	92.97	50-150

	SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$	41 Dibromofluorometha	50.0000	45.0770	90.15	80-119
$	51 1,2-Dichloroethane	50.0000	49.8107	99.62	81-118
$	68 Toluene-d8	50.0000	48.5545	97.11	89-112
$	92 4-Bromofluorobenze	50.0000	48.0752	96.15	85-114

Data File: 316102480.D Page 8
Report Date: 25-Oct-2016 10:29

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1801
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	54.2182	
74-87-3	Chloromethane	55.1837	
75-01-4	Vinyl Chloride	54.0966	
74-83-9	Bromomethane	47.3514	
75-00-3	Chloroethane	53.8102	
109-66-0	Pentane	46.1610	
75-69-4	Trichlorofluoromethane	52.0044	
75-43-4	Dichlorofluoromethane	44.2184	
60-29-7	Ethyl Ether	45.0271	
75-35-4	1,1-Dichloroethene	43.5434	
75-15-0	Carbon Disulfide	41.1974	
76-13-1	Freon 113	42.1057	
74-88-4	Iodomethane	47.4847	
107-02-8	Acrolein	466.804	
107-05-1	3-Chloro-1-propene	38.9072	
67-63-0	Isopropyl Alcohol	331.836	
75-09-2	Methylene Chloride	47.4578	
67-64-1	Acetone	246.522	
79-20-9	Methyl acetate	47.7866	
156-60-5	trans-1,2-Dichloroethene	45.3409	
110-54-3	Hexane	44.3159	
1634-04-4	Methyl t-Butyl Ether	47.0318	
75-65-0	tert.- Butyl Alcohol	293.368	
75-05-8	Acetonitrile	299.923	
108-20-3	Diisopropyl ether	49.3766	
126-99-8	Chloroprene	47.7884	
75-34-3	1,1-Dichloroethane	46.0352	
107-13-1	Acrylonitrile	243.144	
71-23-8	n-Propanol	542.301	
637-92-3	Ethyl tert-butyl ether	49.3547	
108-05-4	Vinyl acetate	44.9020	
156-59-2	cis-1,2-Dichloroethene	45.7703	
594-20-7	2,2-Dichloropropane	35.1598	
540-59-0	1,2-Dichloroethene, Total	91.1112	
74-97-5	Bromochloromethane	46.0563	
110-82-7	Cyclohexane	45.5602	
67-66-3	Chloroform	49.1857	
141-78-6	Ethyl acetate	51.5948	
96-33-3	Methyl acrylate	50.8347	
56-23-5	Carbon Tetrachloride	46.6262	
109-99-9	Tetrahydrofuran	258.350	
71-55-6	1,1,1-Trichloroethane	47.3195	

Data File: 316102480.D Page 9
Report Date: 25-Oct-2016 10:29

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1801
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
78-93-3	2-Butanone	254.573	
563-58-6	1,1-Dichloropropene	46.0482	
109-69-3	1-Chlorobutane	51.3855	
142-82-5	Heptane	43.8094	
107-12-0	Propionitrile	250.925	
71-43-2	Benzene	45.9812	
126-98-7	Methacrylonitrile	47.9500	
994-05-8	tert-amyl methyl Ether	48.6770	
78-83-1	Isobutyl alcohol	726.494	
107-06-2	1,2-Dichloroethane	45.9320	
75-85-4	tert-Amyl Alcohol	268.591	
107-39-1	Diisobutylene	52.4587	
79-01-6	Trichloroethene	43.8083	
108-87-2	Methyl cyclohexane	44.8020	
919-94-8	tert-Amyl Ethylether	50.0091	
74-95-3	Dibromomethane	46.6302	
78-87-5	1,2-Dichloropropane	47.4903	
75-27-4	Bromodichloromethane	47.9239	
80-62-6	Methyl methacrylate	52.7107	
123-91-1	1,4-Dioxane	2517.97	
110-75-8	2-Chloroethylvinyl ether	43.3983	
10061-01-5	cis-1,3-Dichloropropene	47.4055	
111-65-9	Octane	42.6346	
108-88-3	Toluene	46.3081	
107-14-2	Chloroacetonitrile	268.693	
79-46-9	2-Nitropropane	247.303	
513-88-2	1,1-Dichloro-2-propanone	248.633	
108-10-1	4-Methyl-2-Pentanone(MIBK)	268.312	
10061-02-6	trans-1,3-Dichloropropene	48.1721	
127-18-4	Tetrachloroethene	52.1798	
97-63-2	Ethyl methacrylate	52.6737	
79-00-5	1,1,2-Trichloroethane	45.7039	
124-48-1	Chlorodibromomethane	47.1613	
142-28-9	1,3-Dichloropropane	45.5083	
106-93-4	1,2-Dibromoethane	46.8712	
591-78-6	2-Hexanone	276.917	
544-10-5	1-Chlorohexane	47.0370	
100-41-4	Ethylbenzene	44.9741	
108-90-7	Chlorobenzene	43.2863	
630-20-6	1,1,1,2-Tetrachloroethane	47.7705	
108383/106423	mp-Xylene	91.6912	
542-75-6	1,3-Dichloropropene, Total	95.5776	

Data File: 316102480.D Page 10
Report Date: 25-Oct-2016 10:29

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1801
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: CJG
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
95-47-6	o-Xylene	47.7682	
100-42-5	Styrene	48.7807	
75-25-2	Bromoform	39.6537	
98-82-8	Isopropylbenzene	47.2391	
1330-20-7	TOTAL XYLENES	139.459	
103-65-1	n-Propylbenzene	47.9833	
108-86-1	Bromobenzene	43.9073	
79-34-5	1,1,2,2-Tetrachloroethane	46.4111	
108-67-8	1,3,5-Trimethylbenzene	48.9293	
95-49-8	o-Chlorotoluene	46.6857	
96-18-4	1,2,3-Trichloropropane	44.8027	
110-57-6	trans-1,4-Dichloro-2-butene	36.1748	
106-43-4	p-Chlorotoluene	46.5669	
98-06-6	tert-Butylbenzene	47.3931	
76-01-7	Pentachloroethane	43.9195	
95-63-6	1,2,4-Trimethylbenzene	49.4866	
135-98-8	sec-Butylbenzene	48.4686	
99-87-6	p-Isopropyltoluene	49.4169	
541-73-1	1,3-Dichlorobenzene	48.0636	
106-46-7	1,4-Dichlorobenzene	48.1247	
104-51-8	n-Butylbenzene	47.4542	
100-44-7	Benzyl Chloride	26.7826	
67-72-1	Hexachloroethane	44.0800	
95-50-1	1,2-Dichlorobenzene	47.8411	
96-12-8	1,2-Dibromo-3-chloropropane	47.7446	
98-95-3	Nitrobenzene	305.340	
87-68-3	Hexachlorobutadiene	47.1264	
120-82-1	1,2,4-Trichlorobenzene	45.8233	
91-20-3	Naphthalene	45.1577	
87-61-6	1,2,3-Trichlorobenzene	45.8649	
1868-53-7	Dibromofluoromethane	45.0770	
17060-07-0	1,2-Dichloroethane-d4	49.8107	
2037-26-5	Toluene-d8	48.5545	
460-00-4	4-Bromofluorobenzene	48.0752	

Data File: 316102480.D Page 11
Report Date: 25-Oct-2016 10:29

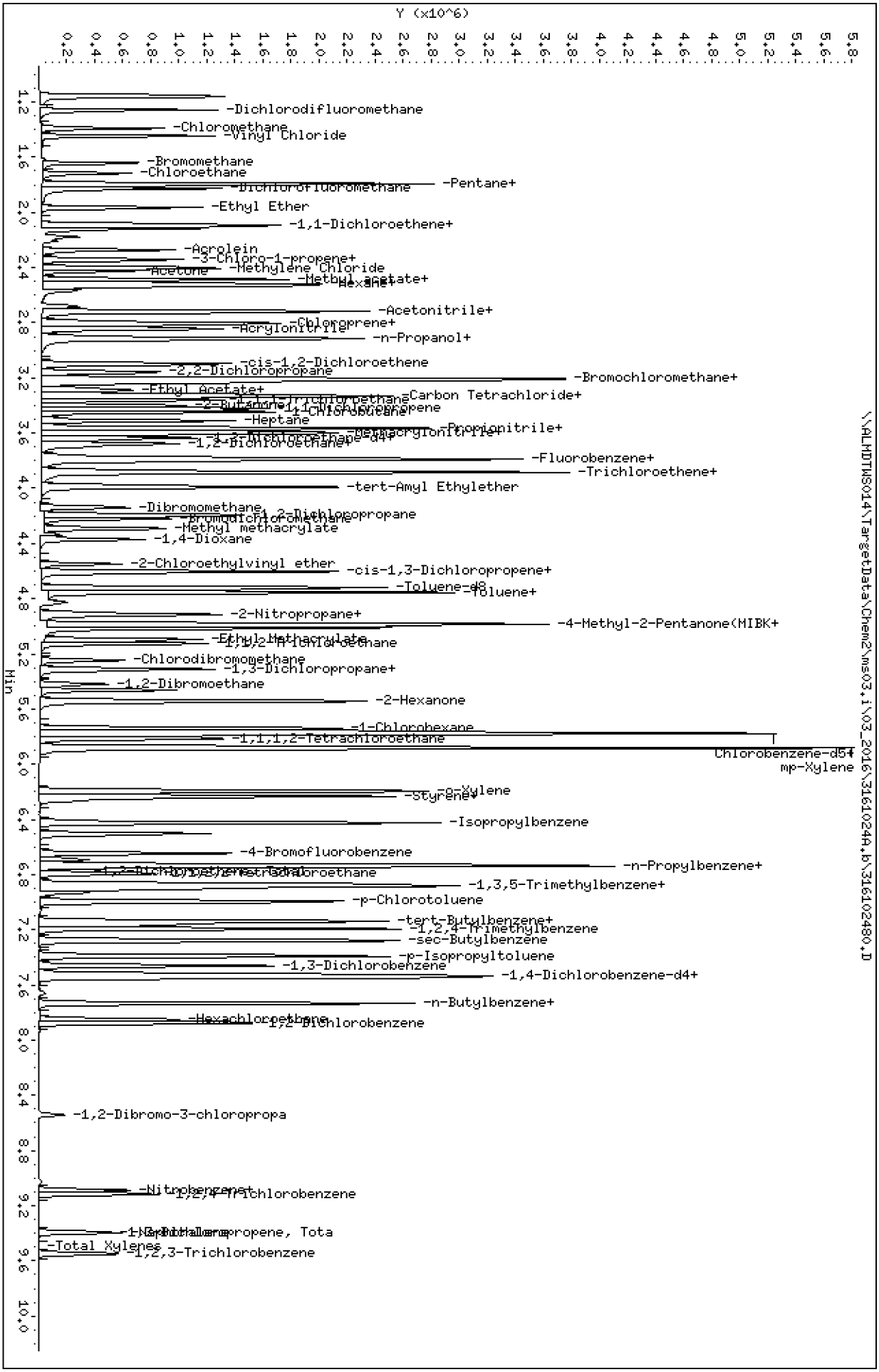
ALS Environmental Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Client SDG: 3161024A.b
Lab Smp Id: 1801
Operator : CJG Sample Date:
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:
Analysis Type: VOA Level: LOW
Inj Date: 25-OCT-2016 09:17

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	1.160	9.68444	_J__
2. 557-98-2	1-Propene, 2-chloro-	5.313	5.34259	NJ__
3. 123-86-4	Acetic acid, butyl ester	5.465	3.87790	NJ__
4. 628-63-7	Acetic acid, pentyl ester	6.502	4.80116	NJ__


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride
-Acetone
-Methyl acetate+
-Hexane
-Acetonitrile+
-Chloroprene+
-Acrylonitrile
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Carbon Tetrachloride+
-Heptane
-Propionitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK+
-Ethyl Methacrylate
-Chlorodibromomethane
-1,3-Dichloropropane+
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-o-Xylene
-Styrene+
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-Nitrobenzene+
-1,2,4-Trichlorobenzene
-Total Xylenes
-1,2,3-Trichlorobenzene
Data File: \\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D
Date : 25-OCT-2016 09:17
Client ID:
Sample Info: 1801;;1;2;4;;;
Purge Volume: 5.0
Column phase: DB-VRX
\\ALHDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D
Instrument: ms03.i
Operator: CJC
Column diameter: 0.25
Page 12

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 13

Date : 25-OCT-2016 09:17

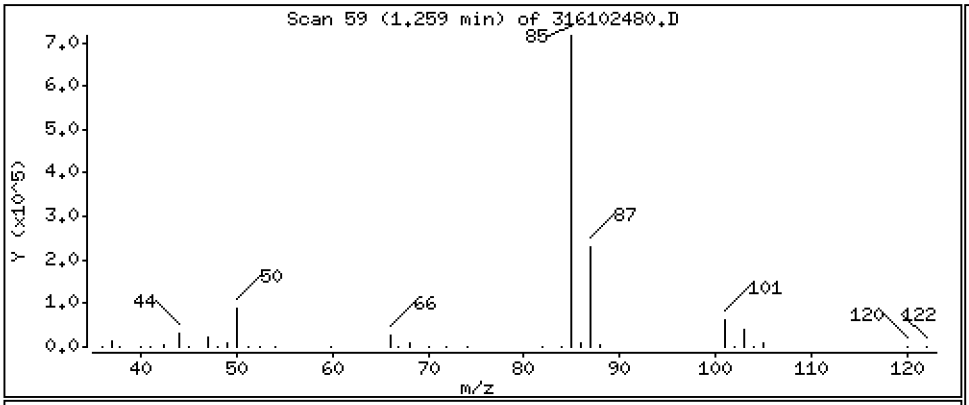
Client ID: Instrument: ms03.i

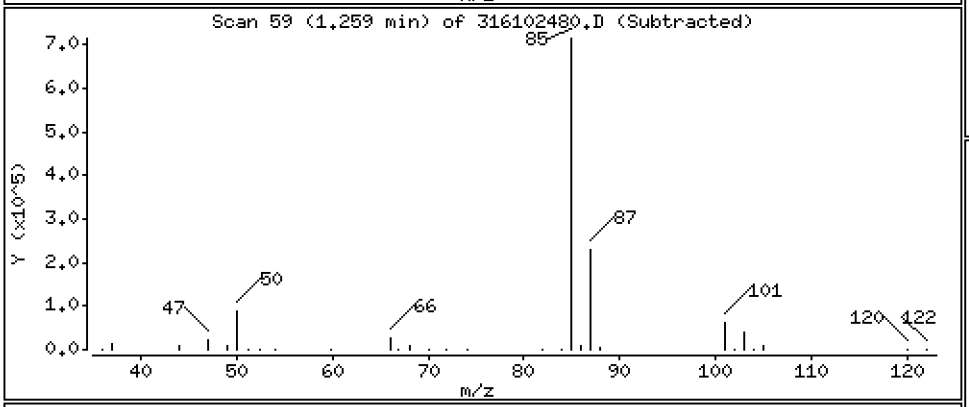
Sample Info: 1801;;1;2;4;;;

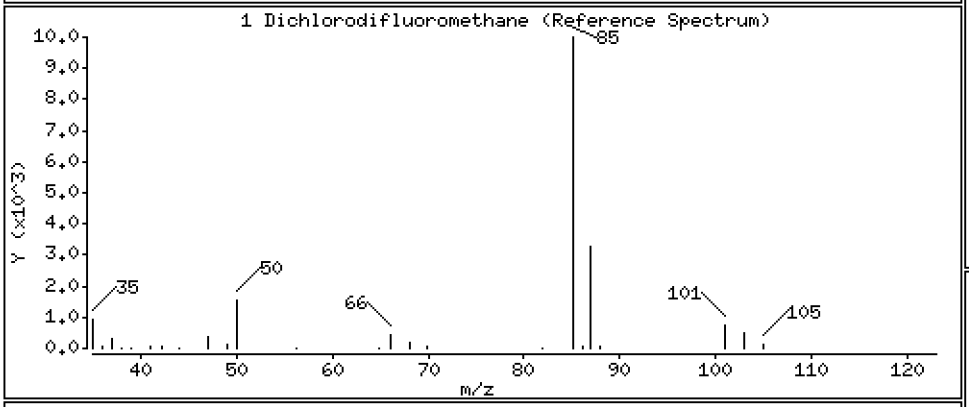
Purge Volume: 5.0 Operator: CJG

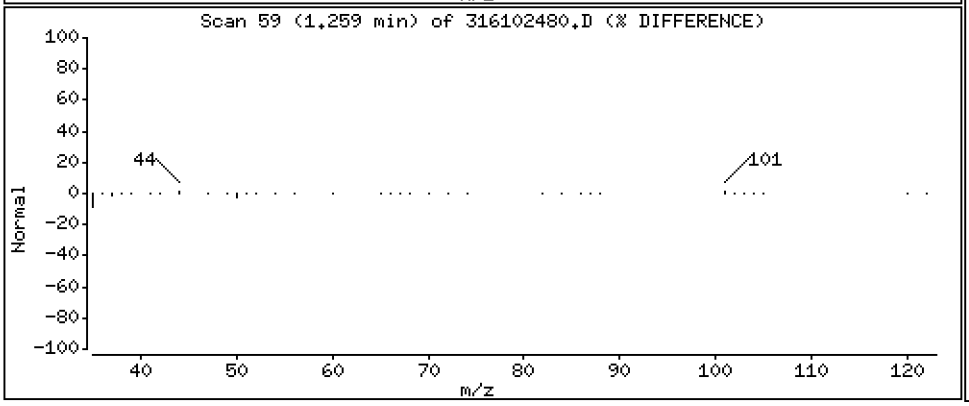
Column phase: DB-VRX Column diameter: 0.25

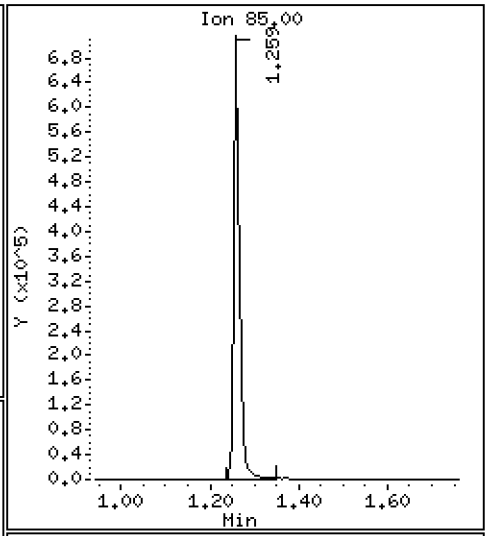
1 Dichlorodifluoromethane Concentration: 54.2182 ug/L

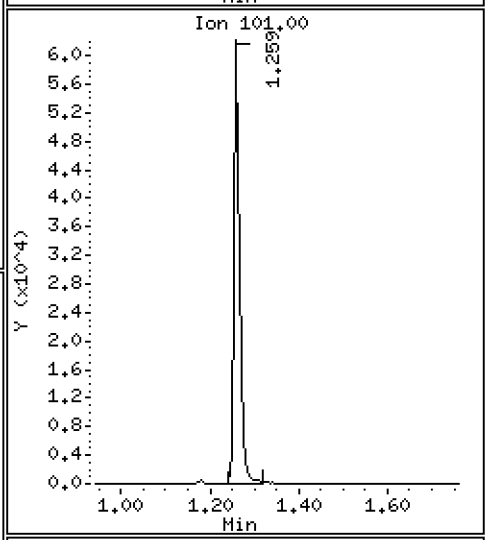


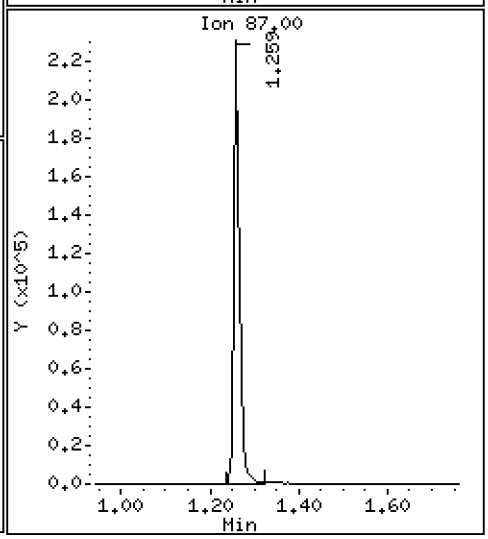












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 14

Date : 25-OCT-2016 09:17

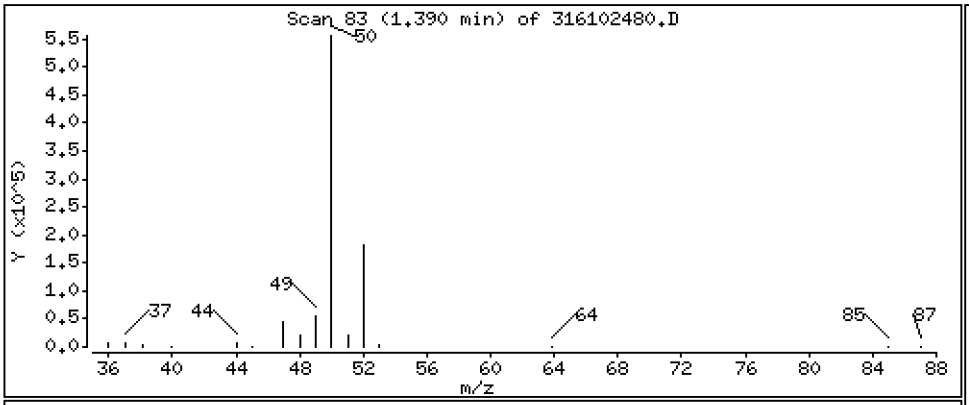
Client ID: Instrument: ms03.i

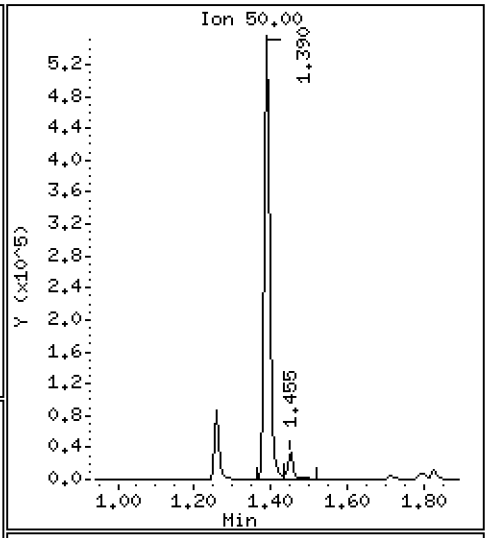
Sample Info: 1801;;1;2;4;;;

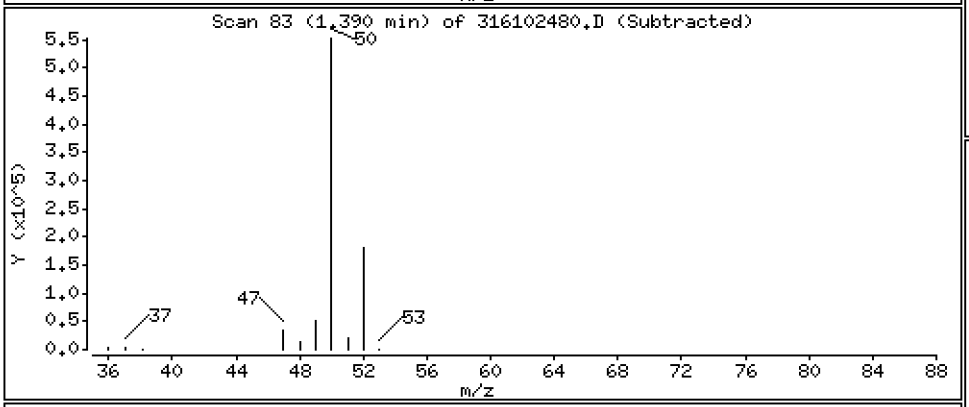
Purge Volume: 5.0 Operator: CJG

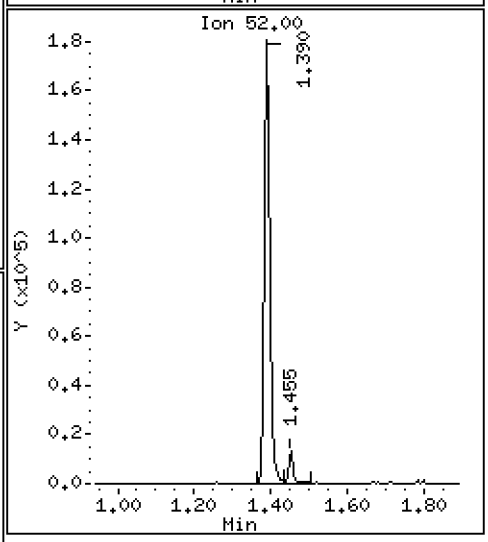
Column phase: DB-VRX Column diameter: 0.25

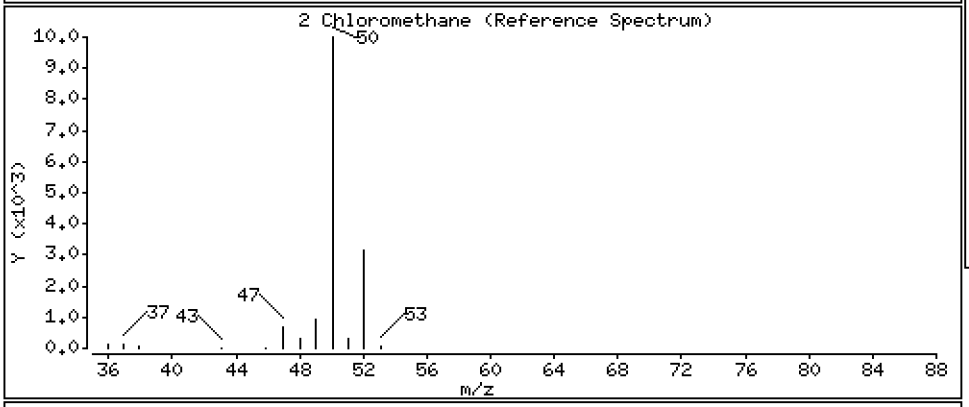
2 Chloromethane Concentration: 55.1837 ug/L

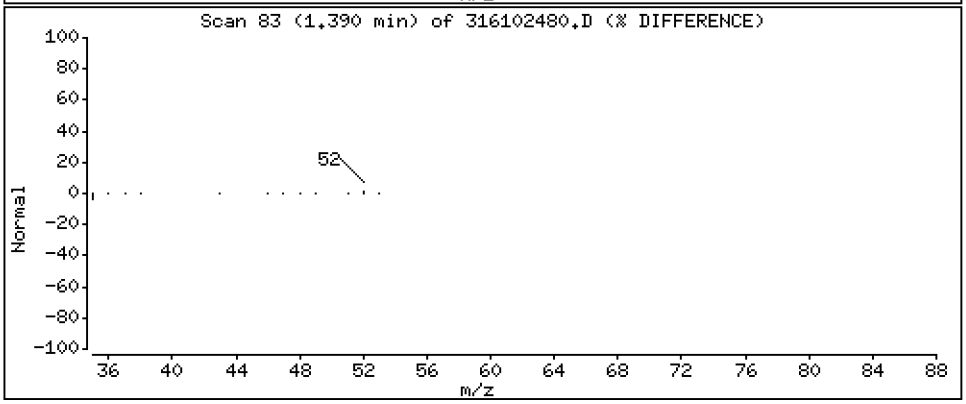












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 15

Date : 25-OCT-2016 09:17

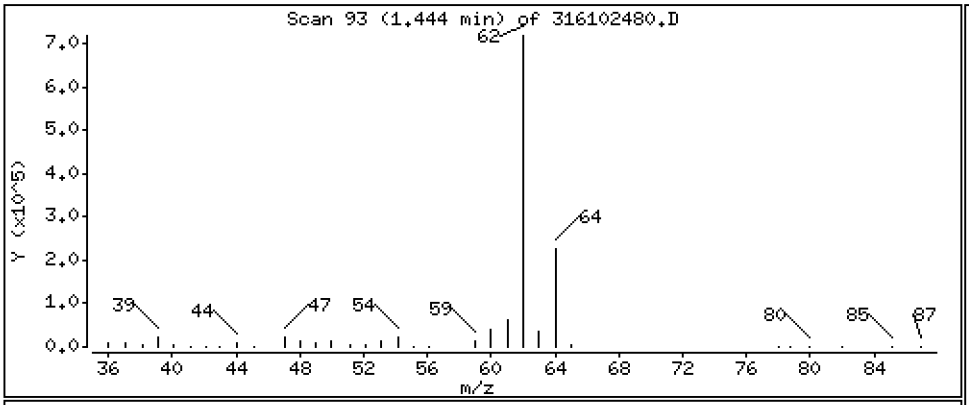
Client ID: Instrument: ms03.i

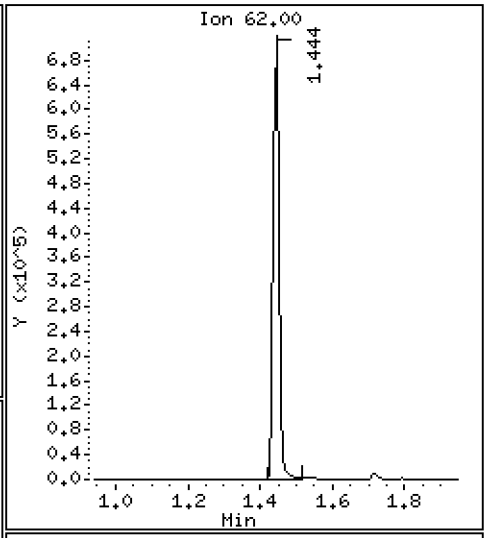
Sample Info: 1801;;1;2;4;;;

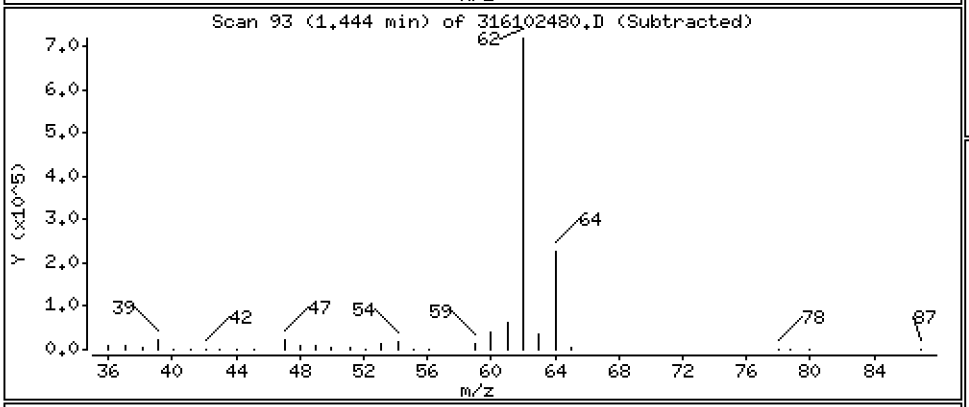
Purge Volume: 5.0 Operator: CJG

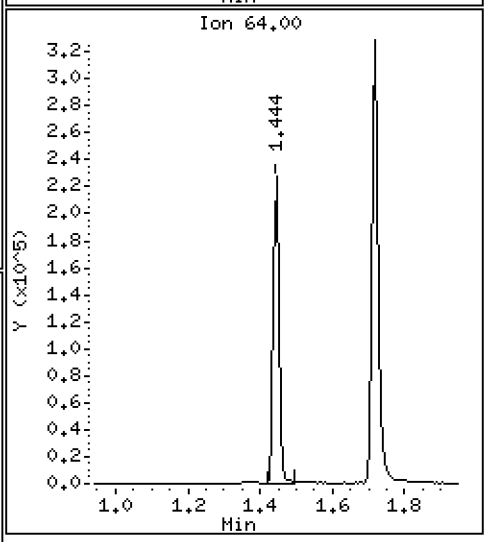
Column phase: DB-VRX Column diameter: 0.25

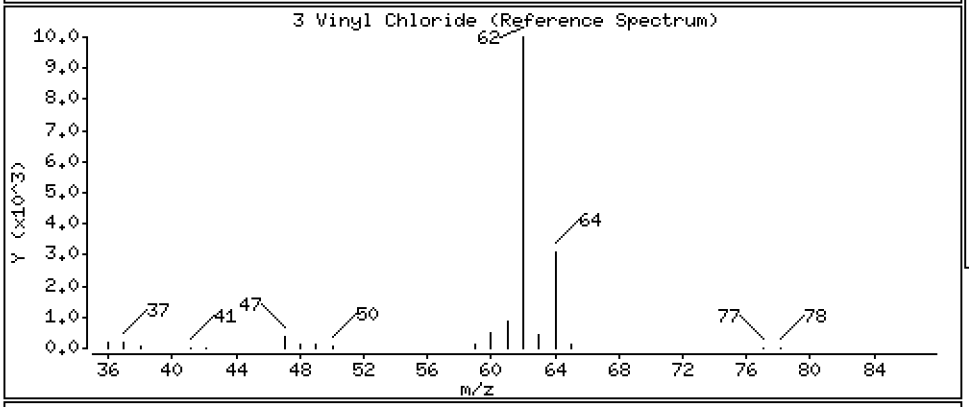
3 Vinyl Chloride Concentration: 54.0966 ug/L

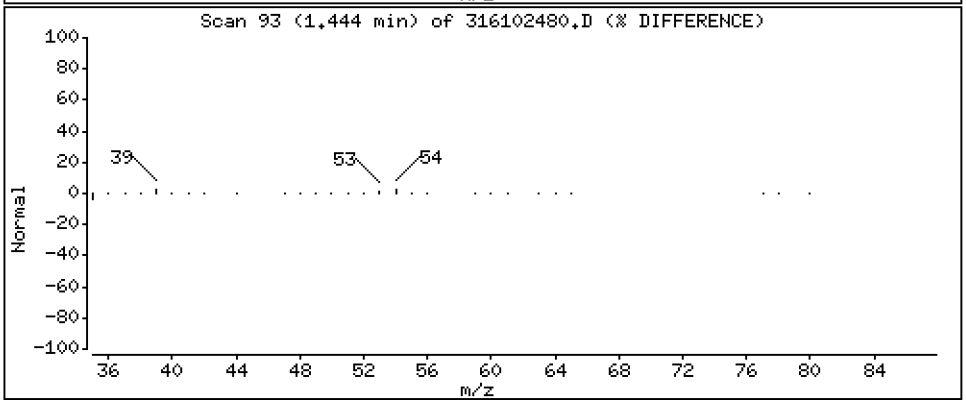












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 16

Date : 25-OCT-2016 09:17

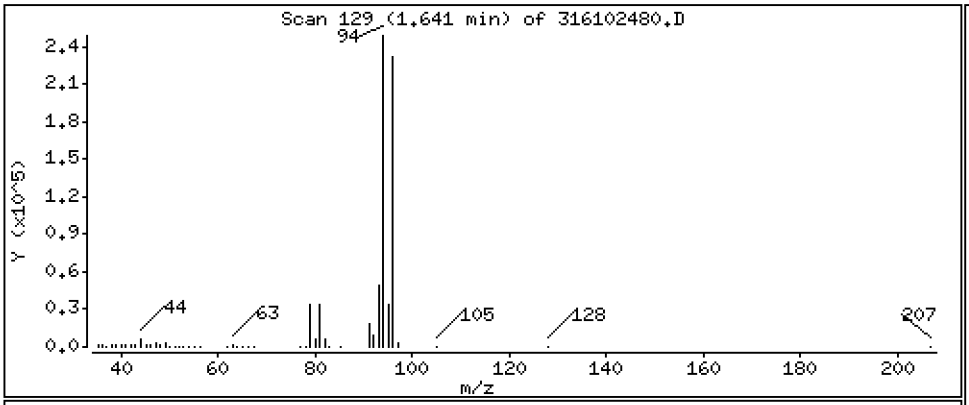
Client ID: Instrument: ms03.i

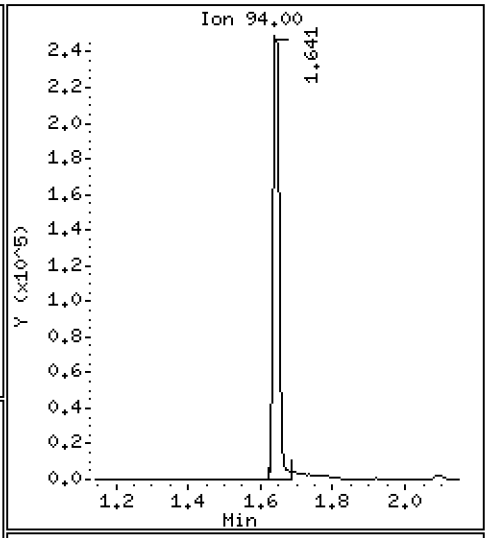
Sample Info: 1801;;1;2;4;;;

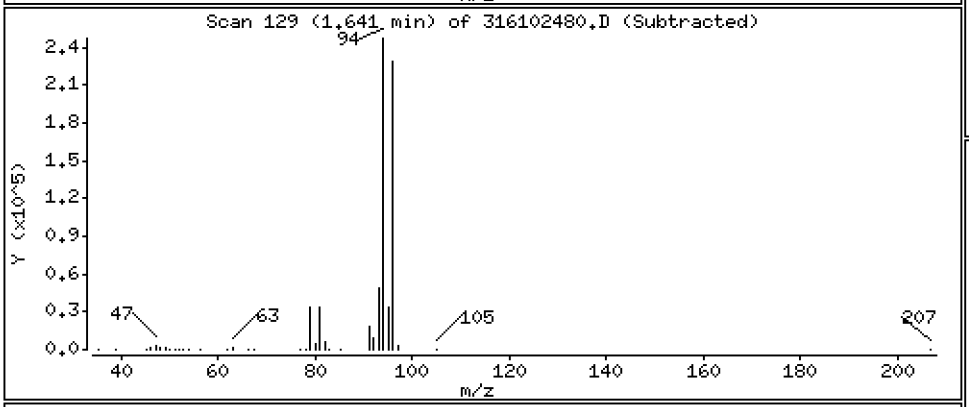
Purge Volume: 5.0 Operator: CJG

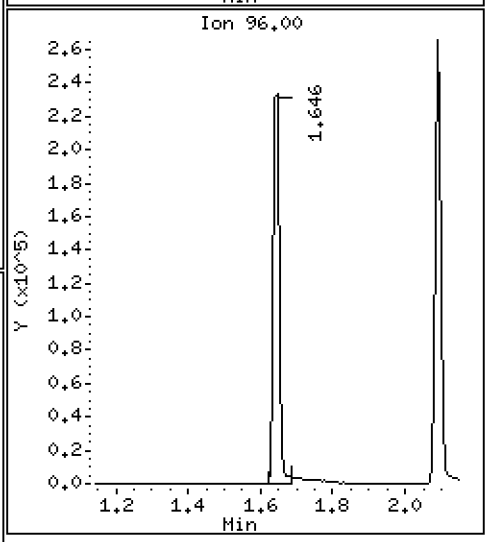
Column phase: DB-VRX Column diameter: 0.25

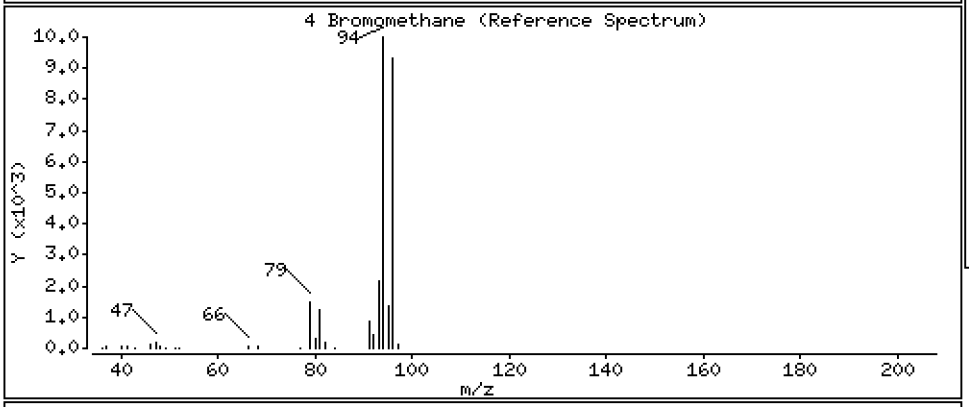
4 Bromomethane Concentration: 47.3514 ug/L

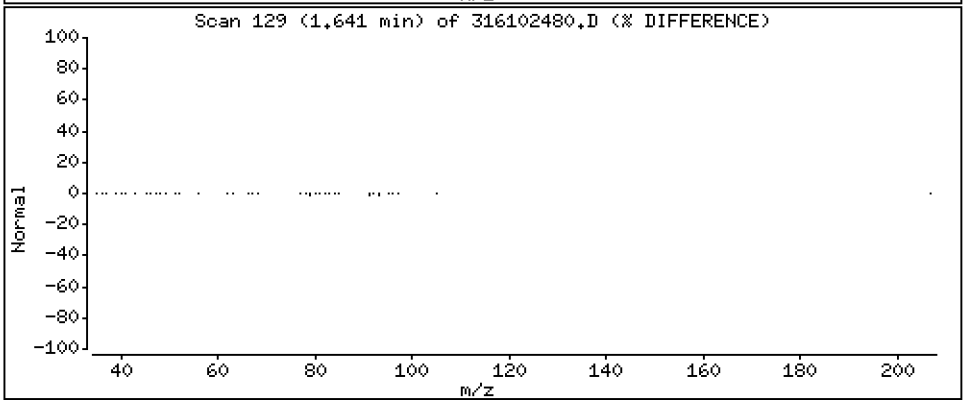












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 17

Date : 25-OCT-2016 09:17

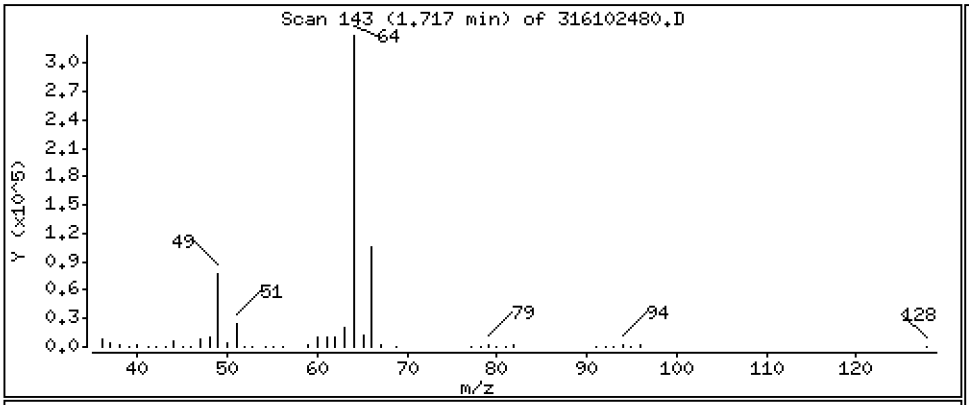
Client ID: Instrument: ms03.i

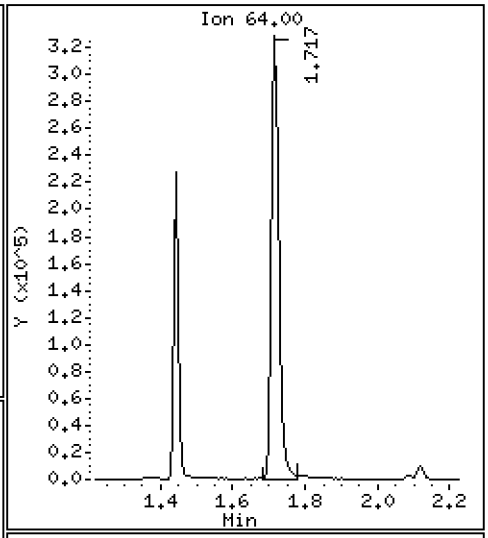
Sample Info: 1801;;1;2;4;;;

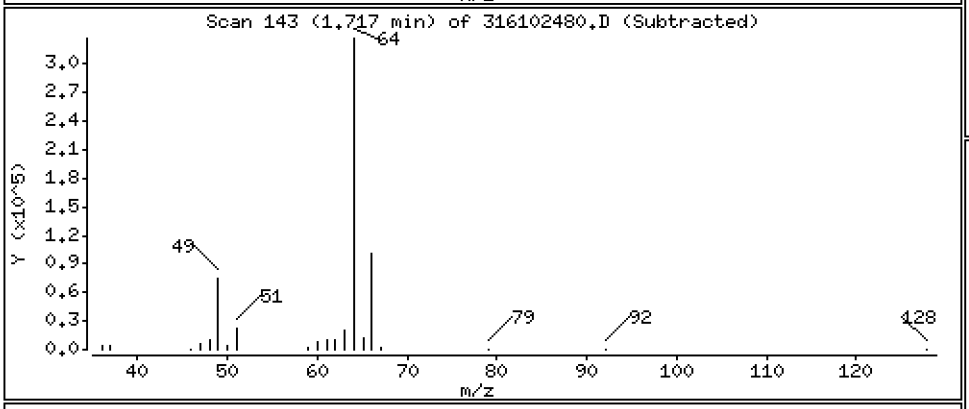
Purge Volume: 5.0 Operator: CJG

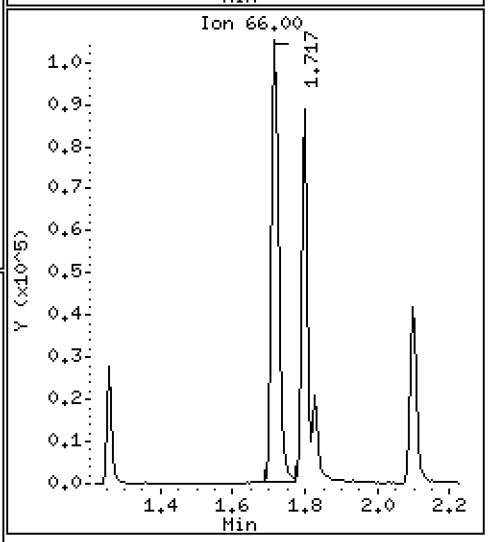
Column phase: DB-VRX Column diameter: 0.25

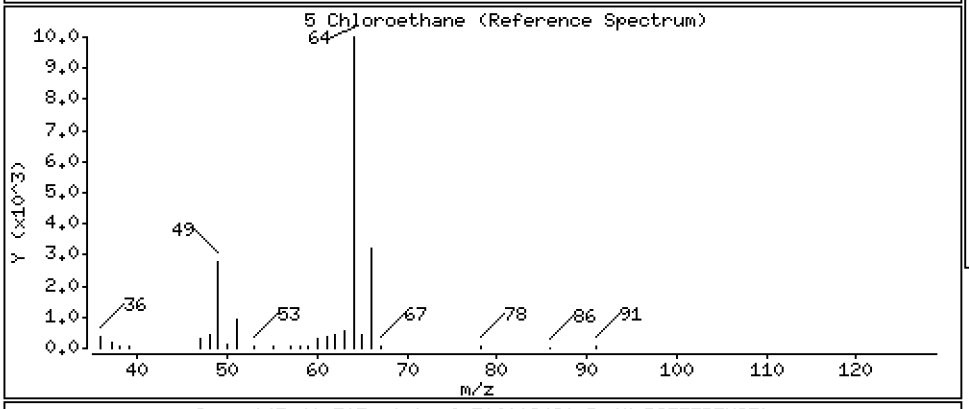
5 Chloroethane Concentration: 53.8102 ug/L

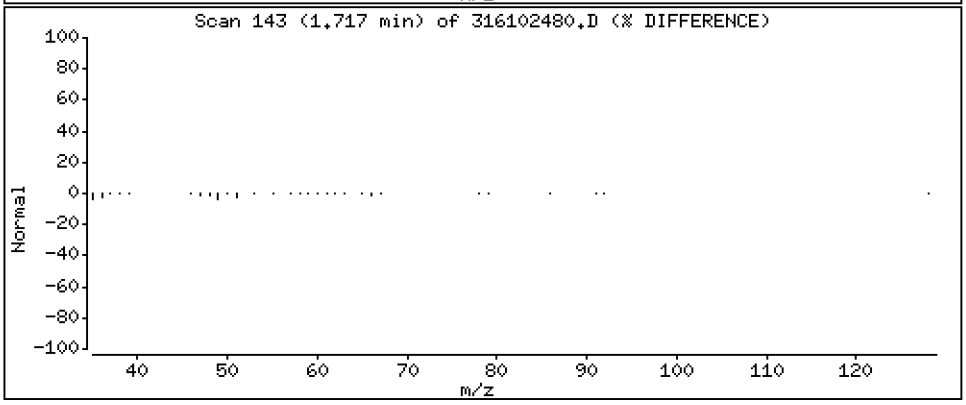












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 18

Date : 25-OCT-2016 09:17

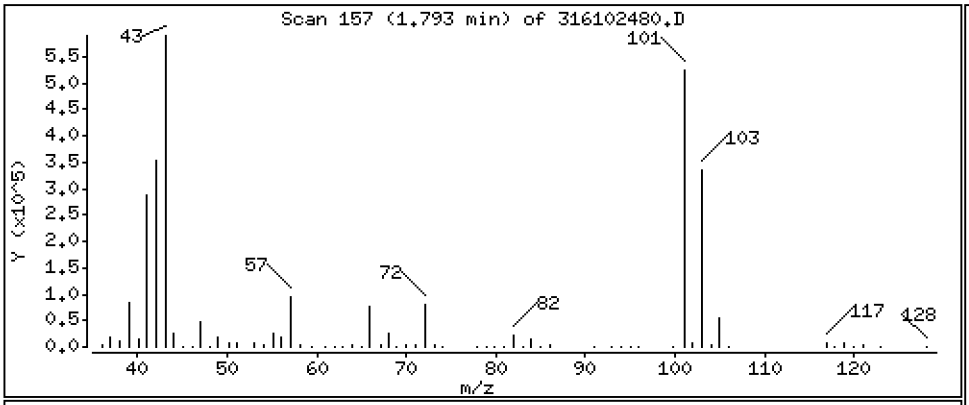
Client ID: Instrument: ms03.i

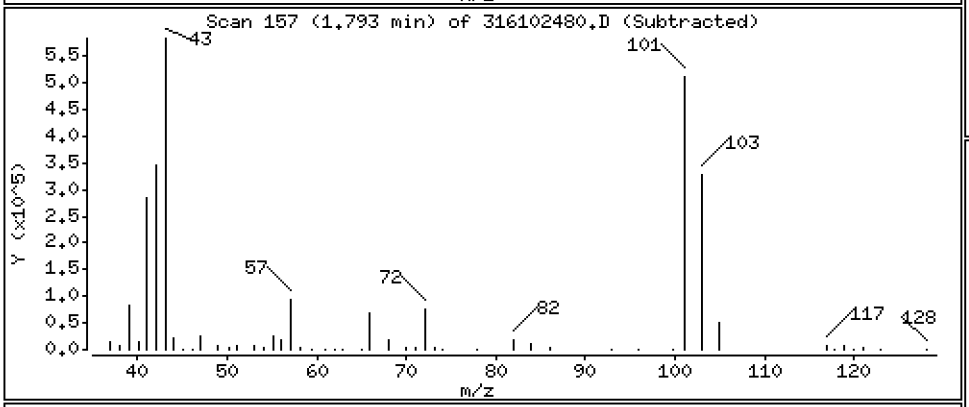
Sample Info: 1801;;1;2;4;;;

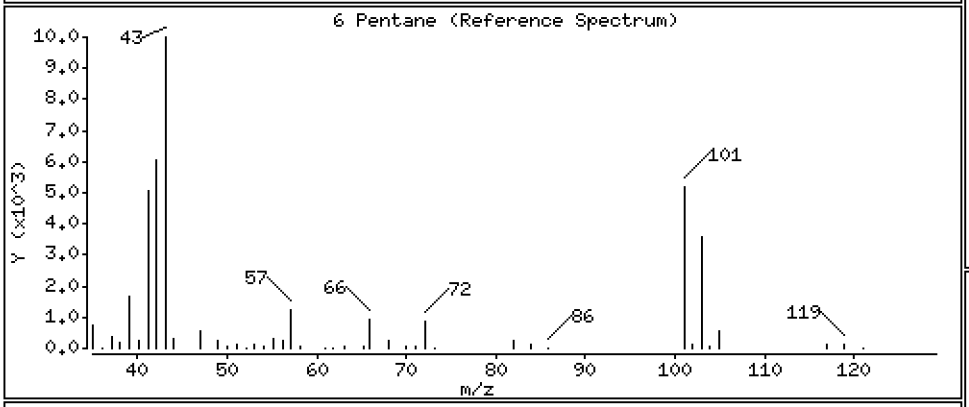
Purge Volume: 5.0 Operator: CJG

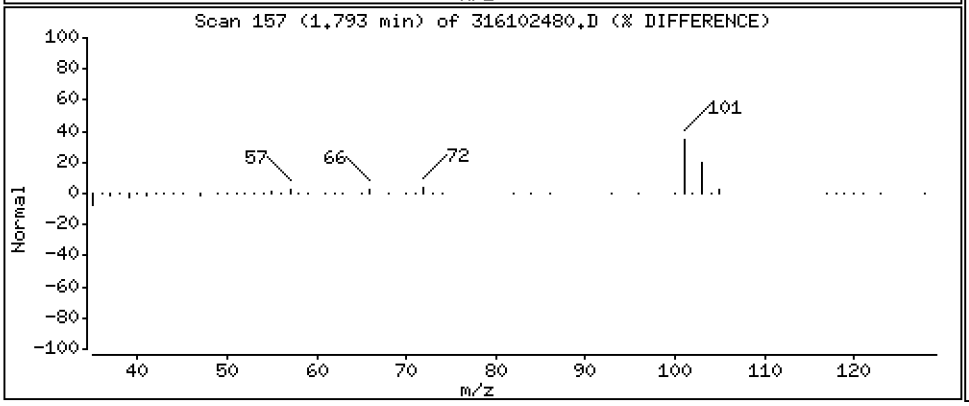
Column phase: DB-VRX Column diameter: 0.25

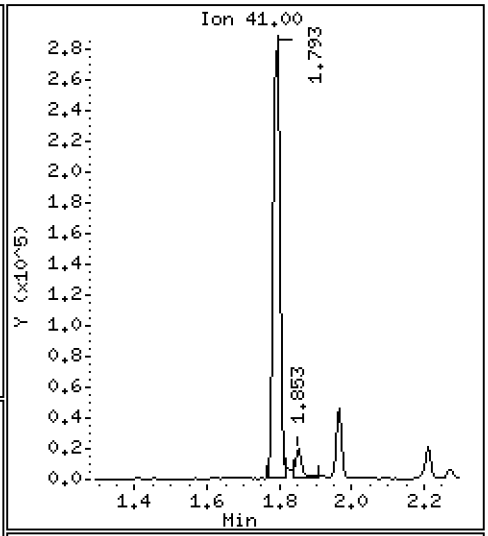
6 Pentane Concentration: 46.1610 ug/L

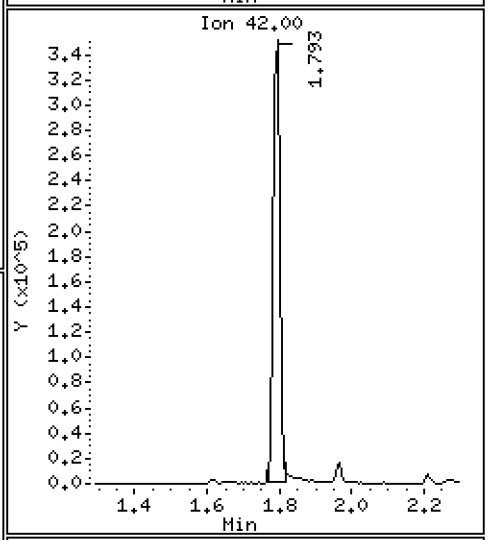


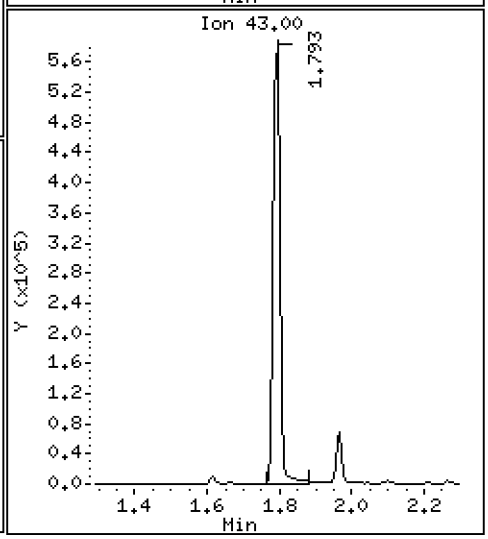












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 19

Date : 25-OCT-2016 09:17

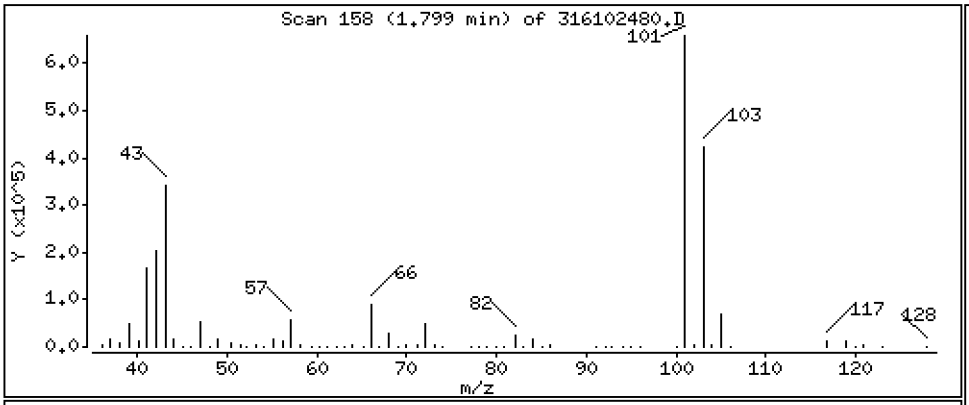
Client ID: Instrument: ms03.i

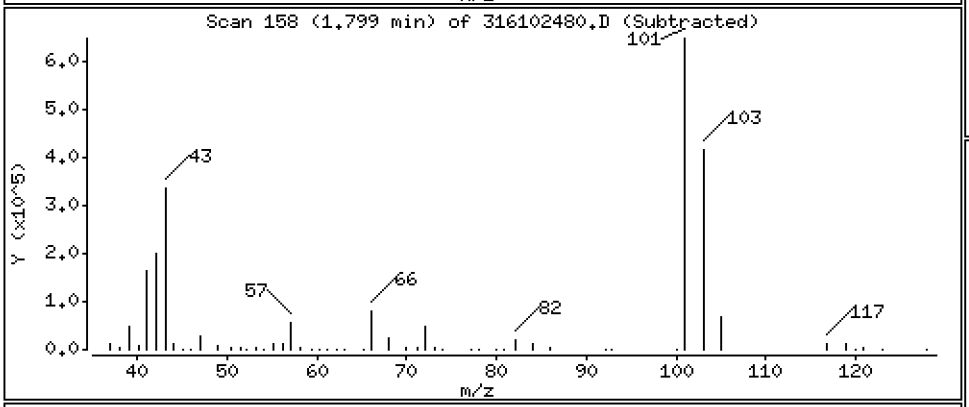
Sample Info: 1801;;1;2;4;;;

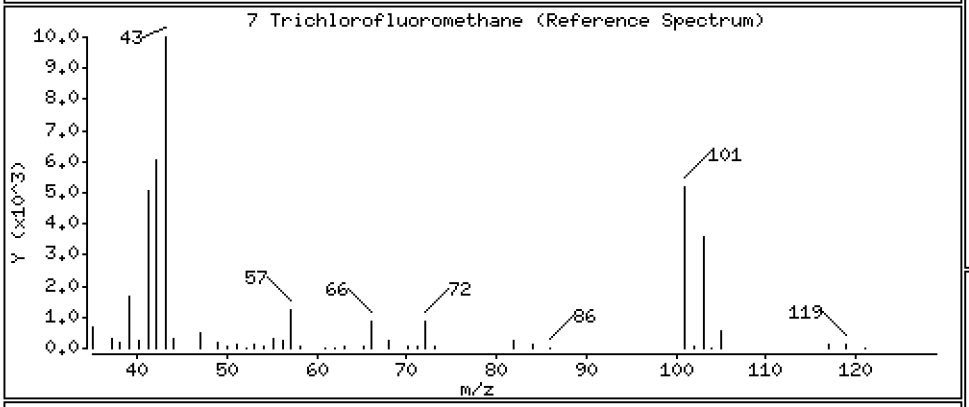
Purge Volume: 5.0 Operator: CJG

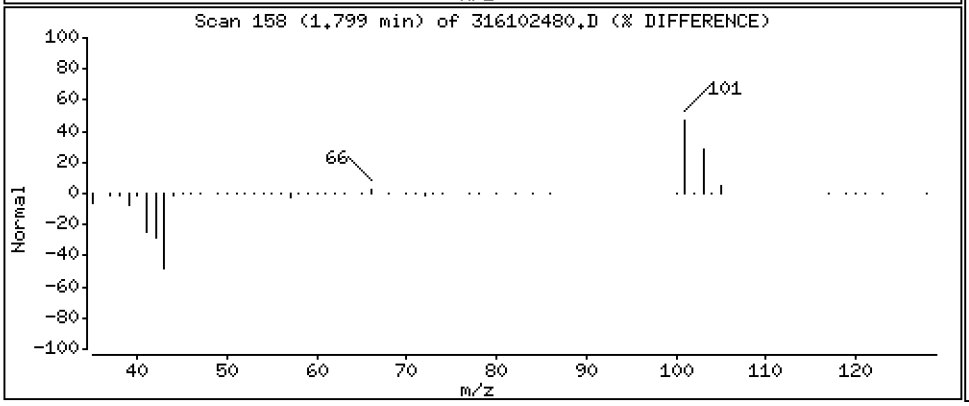
Column phase: DB-VRX Column diameter: 0.25

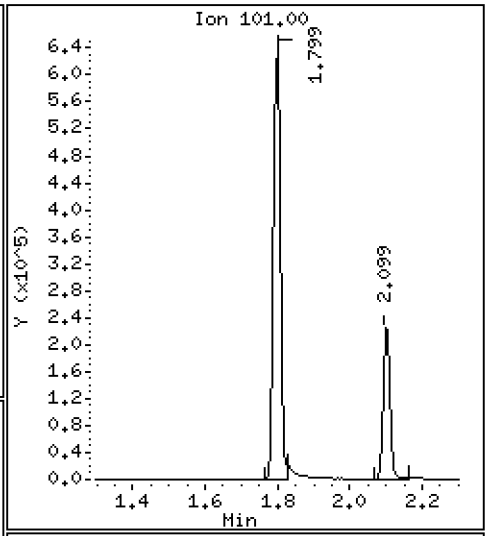
7 Trichlorofluoromethane Concentration: 52.0044 ug/L

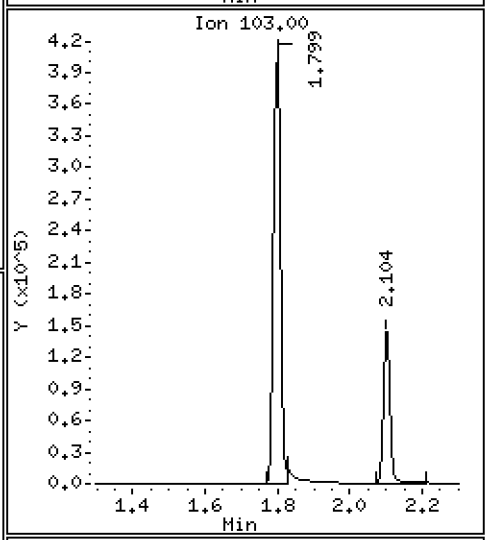


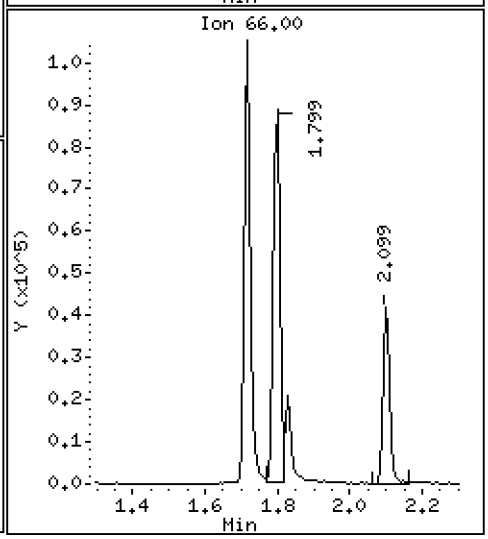












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 20

Date : 25-OCT-2016 09:17

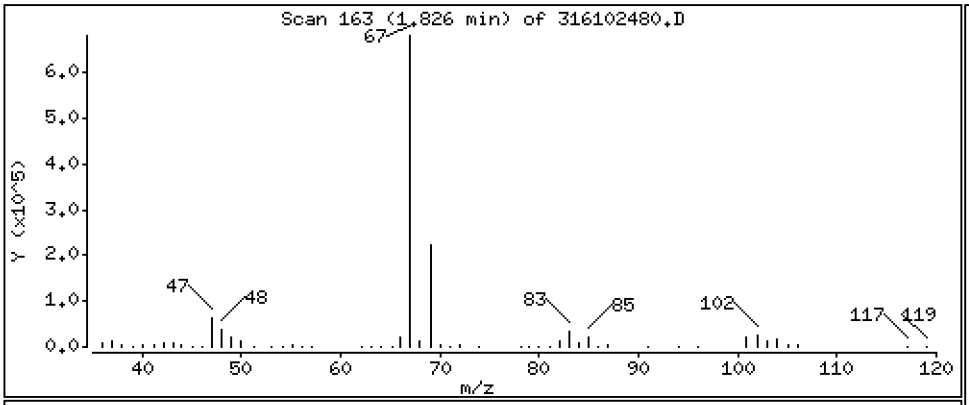
Client ID: Instrument: ms03.i

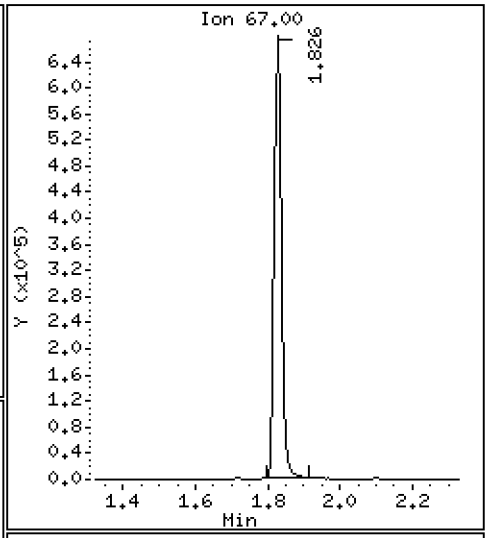
Sample Info: 1801;;1;2;4;;;

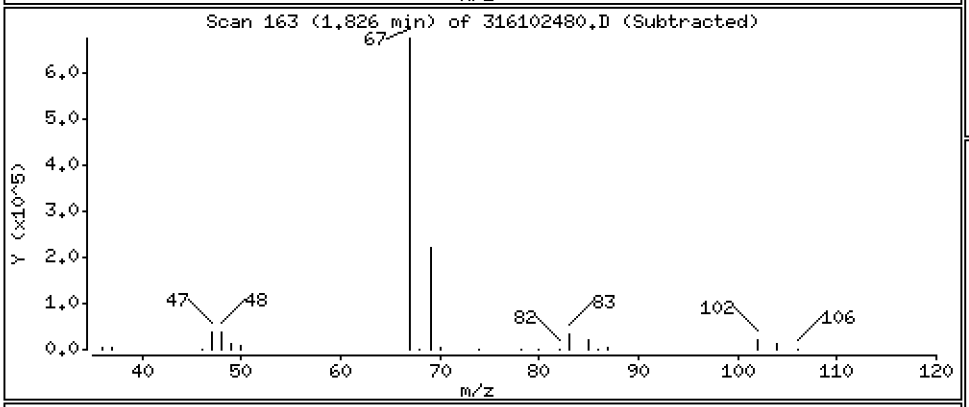
Purge Volume: 5.0 Operator: CJG

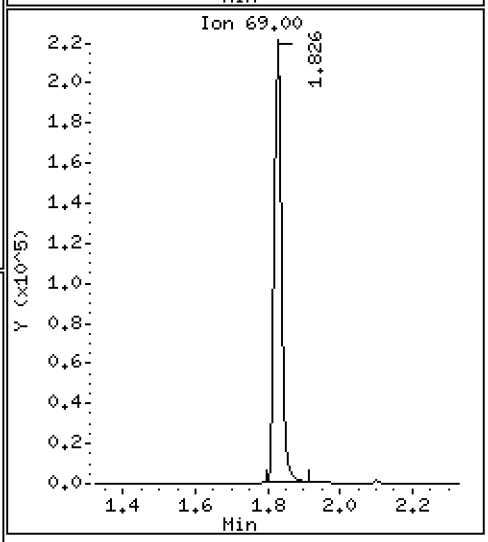
Column phase: DB-VRX Column diameter: 0.25

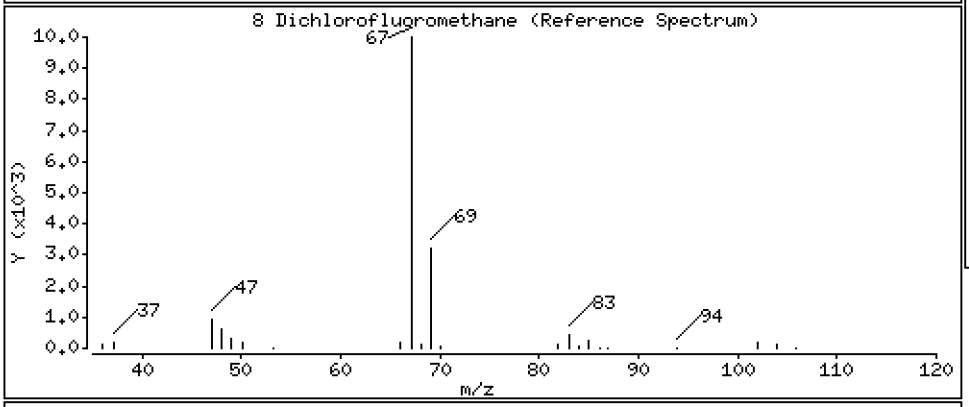
8 Dichlorofluoromethane Concentration: 44.2184 ug/L

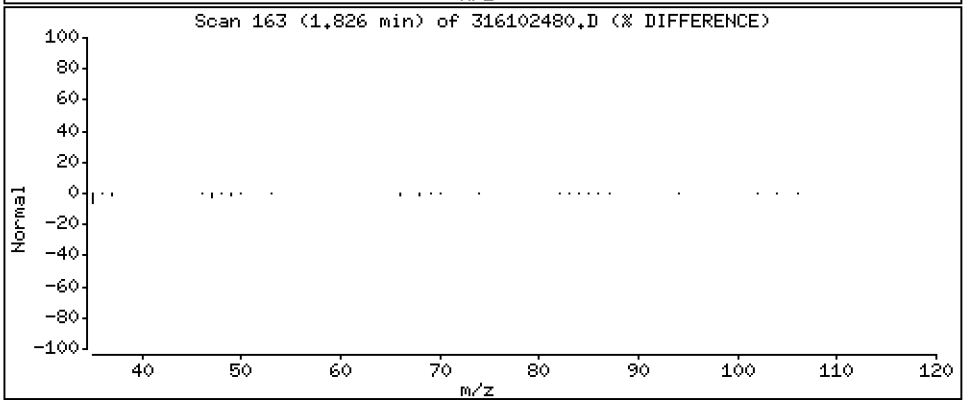












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 21

Date : 25-OCT-2016 09:17

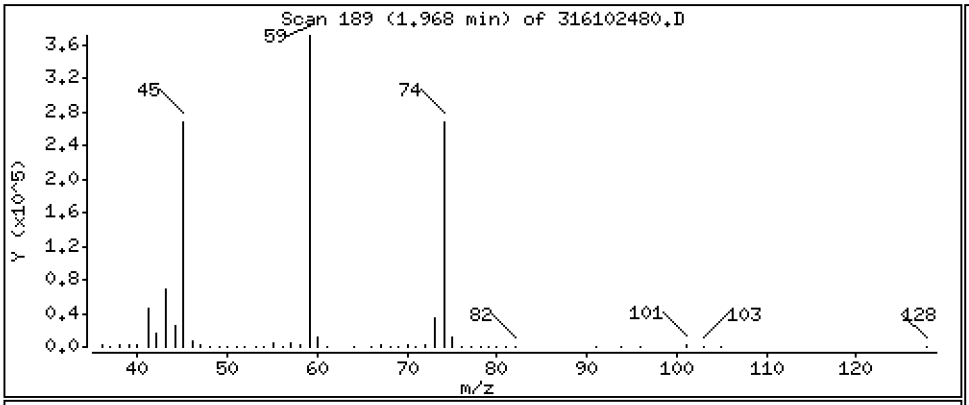
Client ID: Instrument: ms03.i

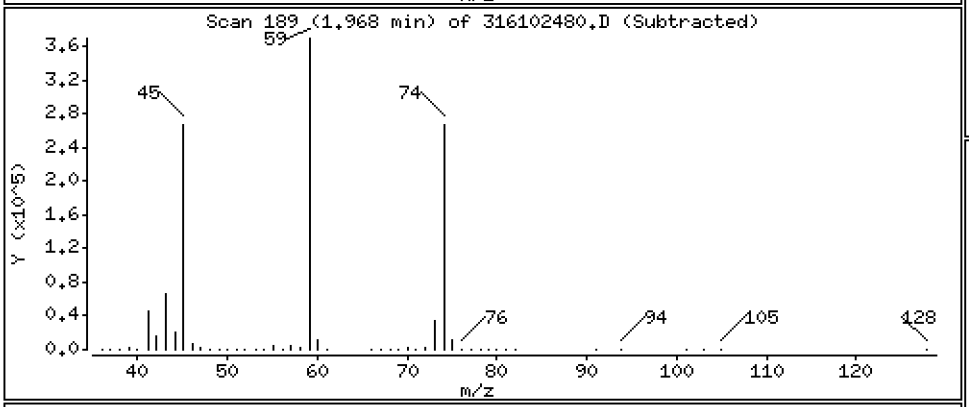
Sample Info: 1801;;1;2;4;;;

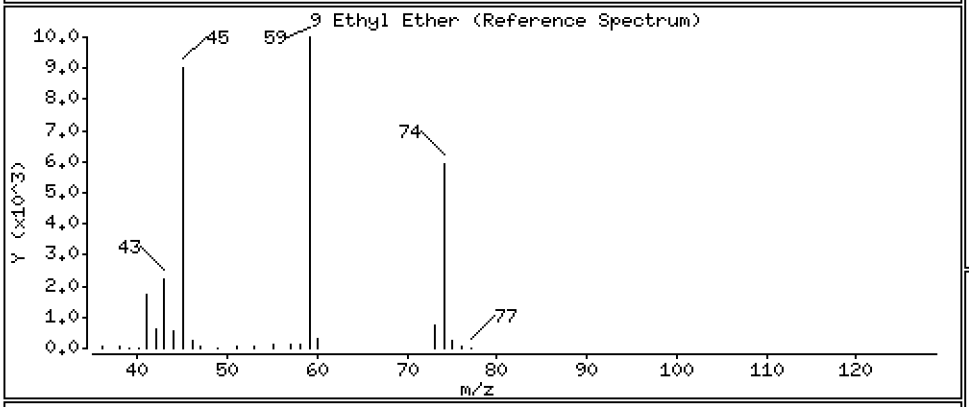
Purge Volume: 5.0 Operator: CJG

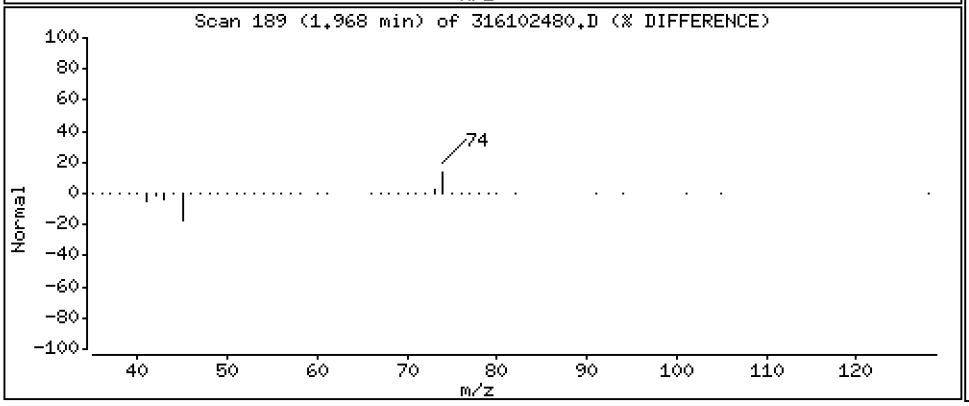
Column phase: DB-VRX Column diameter: 0.25

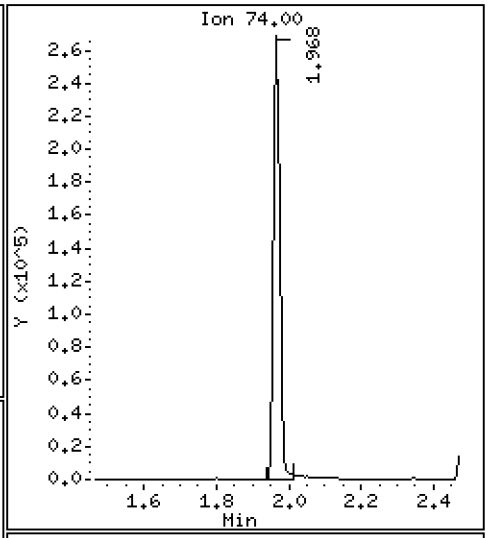
9 Ethyl Ether Concentration: 45.0271 ug/L

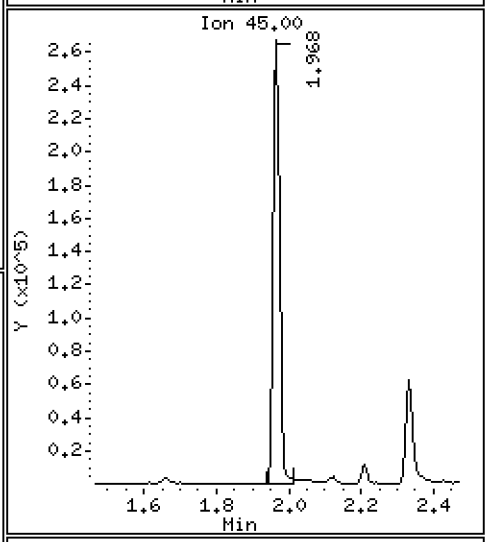


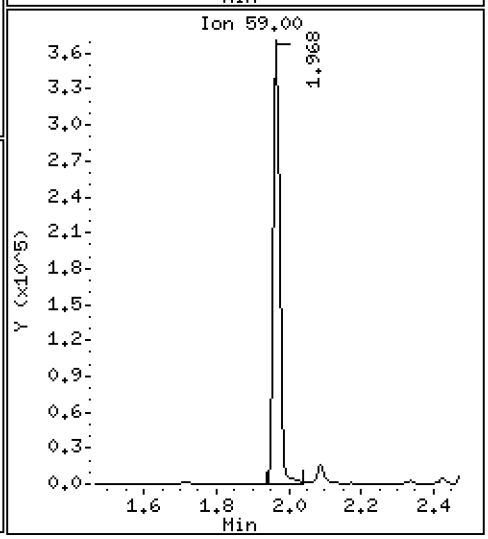












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 22

Date : 25-OCT-2016 09:17

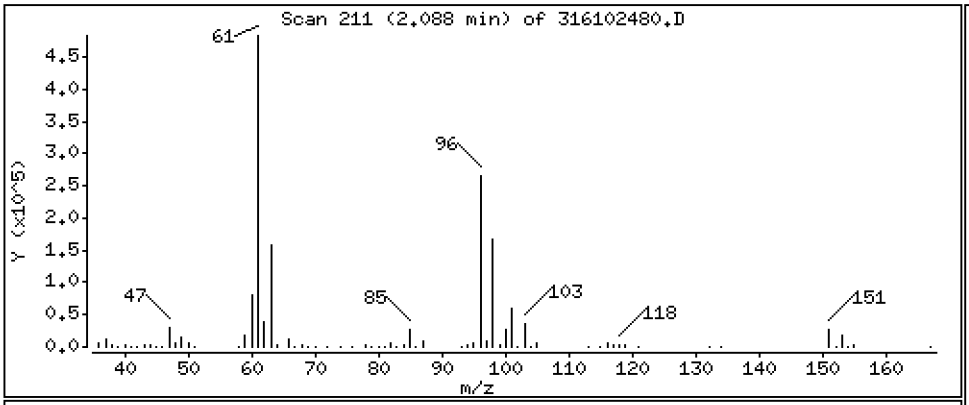
Client ID: Instrument: ms03.i

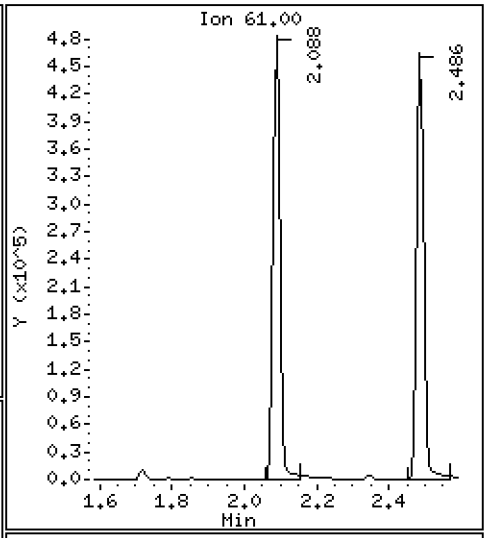
Sample Info: 1801;;1;2;4;;;

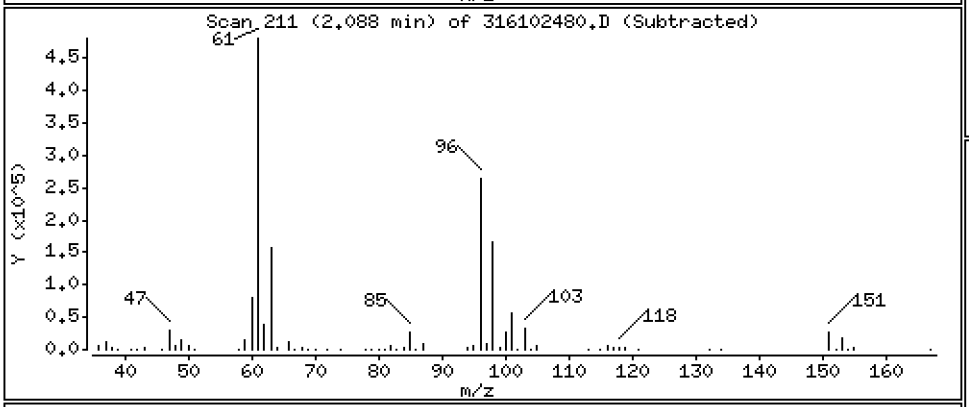
Purge Volume: 5.0 Operator: CJG

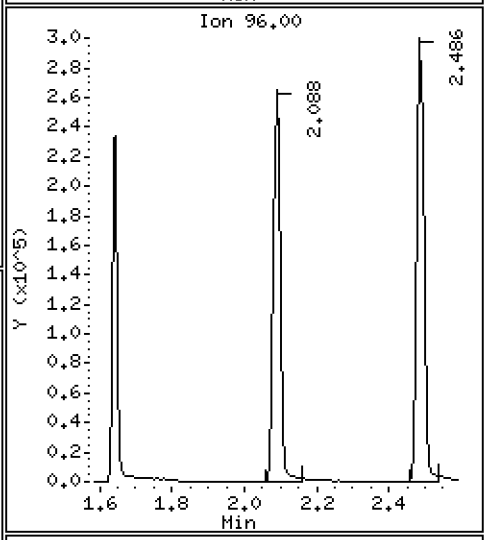
Column phase: DB-VRX Column diameter: 0.25

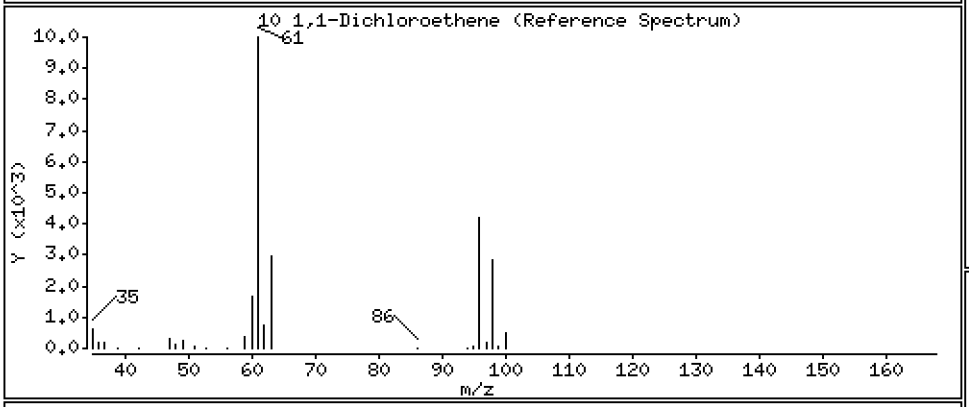
10 1,1-Dichloroethene Concentration: 43.5434 ug/L

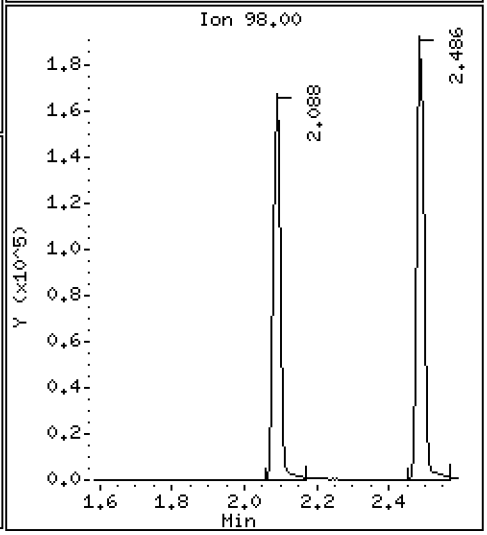


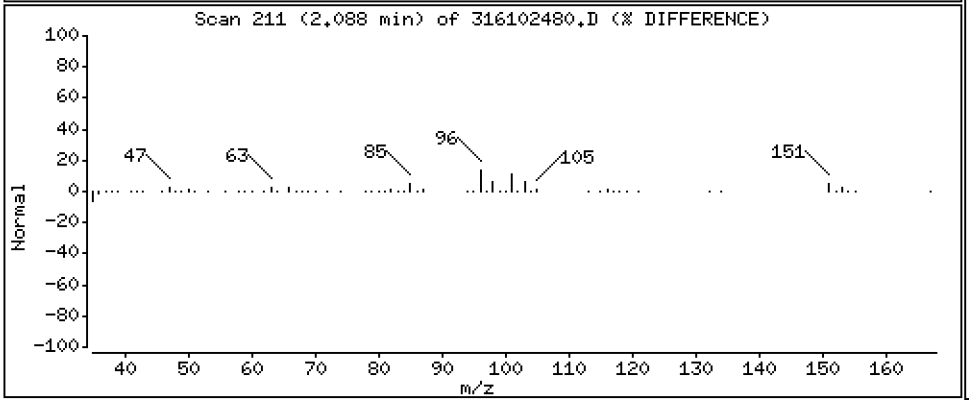












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 23

Date : 25-OCT-2016 09:17

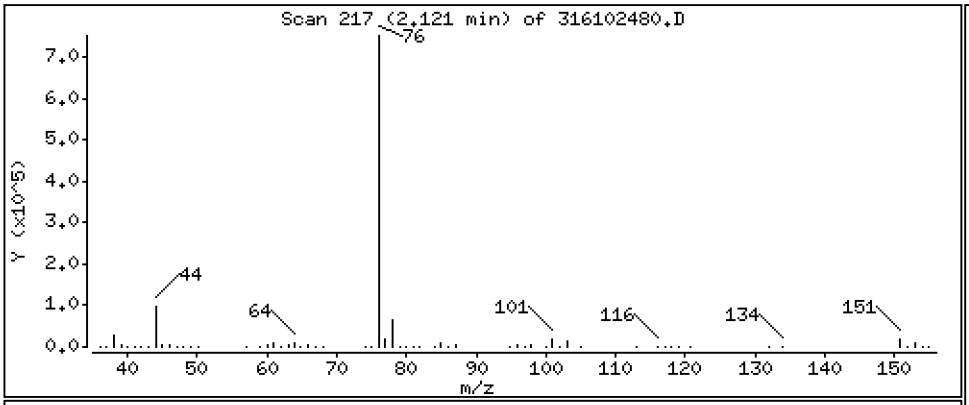
Client ID: Instrument: ms03.i

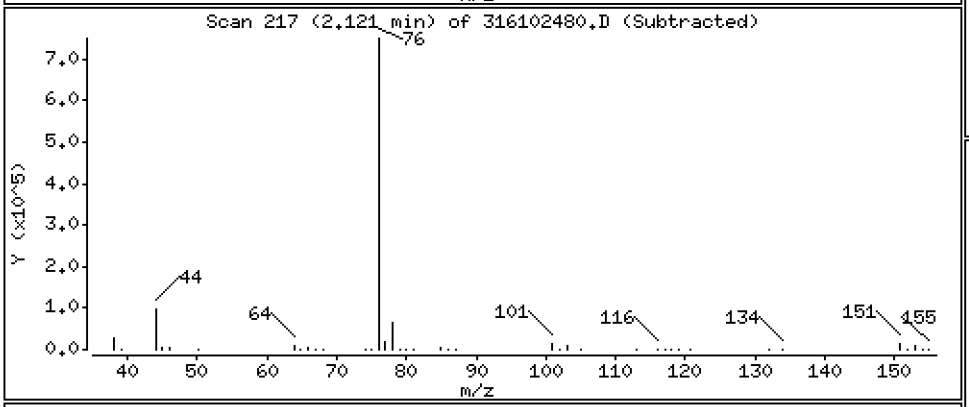
Sample Info: 1801;;1;2;4;;;

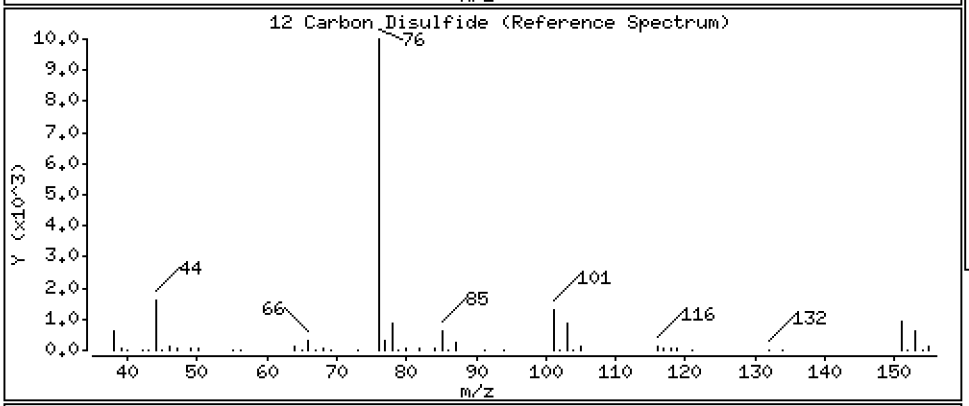
Purge Volume: 5.0 Operator: CJG

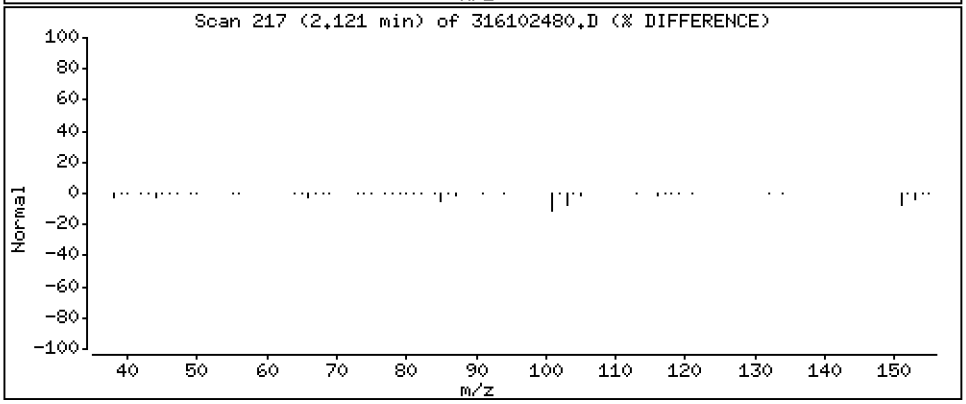
Column phase: DB-VRX Column diameter: 0.25

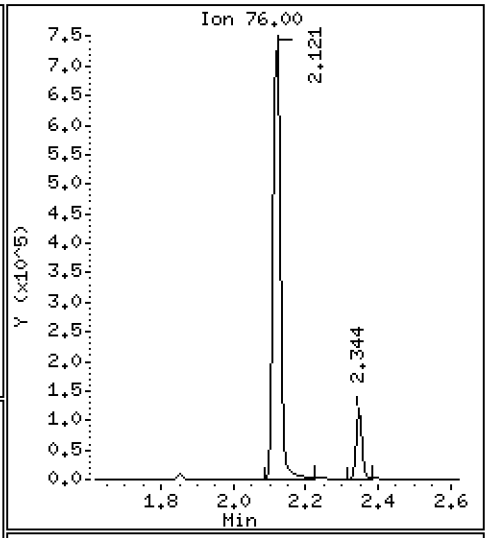
12 Carbon Disulfide Concentration: 41.1974 ug/L

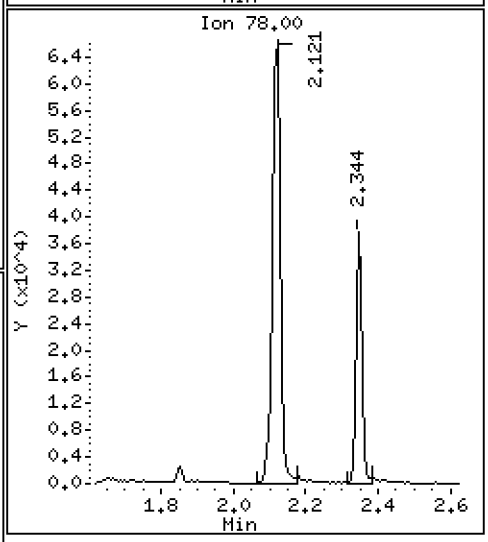












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 24

Date : 25-OCT-2016 09:17

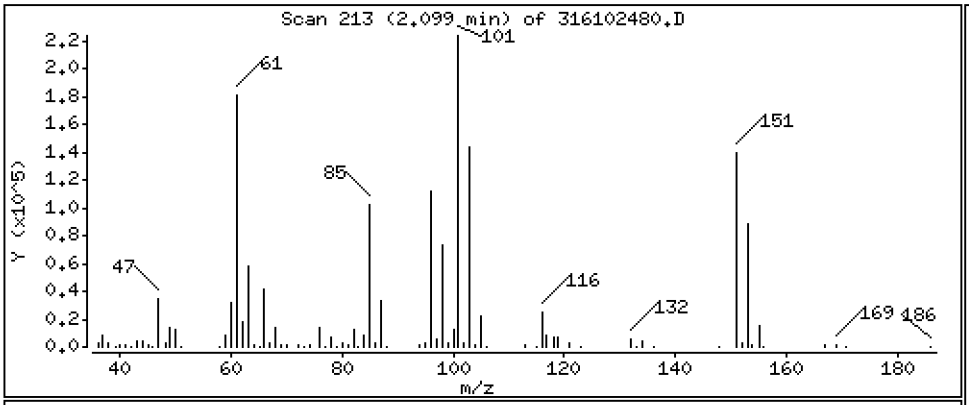
Client ID: Instrument: ms03.i

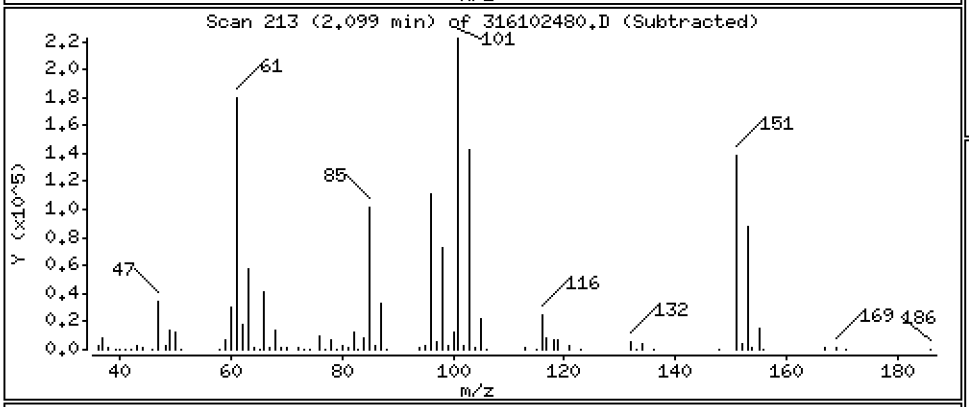
Sample Info: 1801;;1;2;4;;;

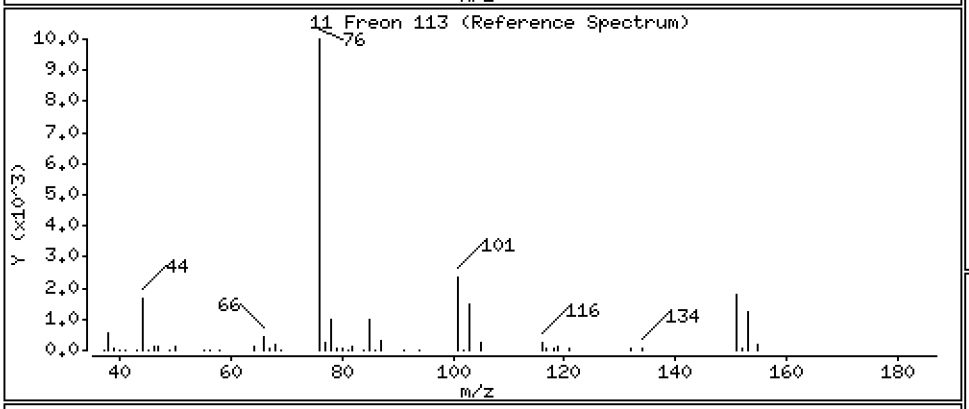
Purge Volume: 5.0 Operator: CJG

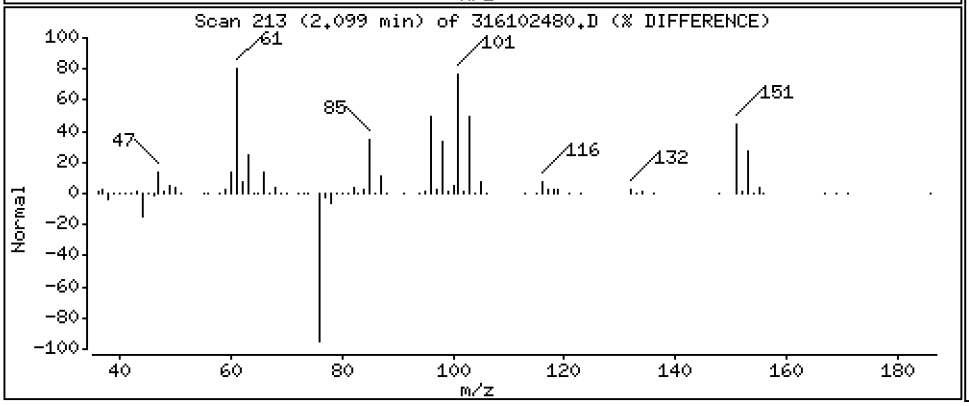
Column phase: DB-VRX Column diameter: 0.25

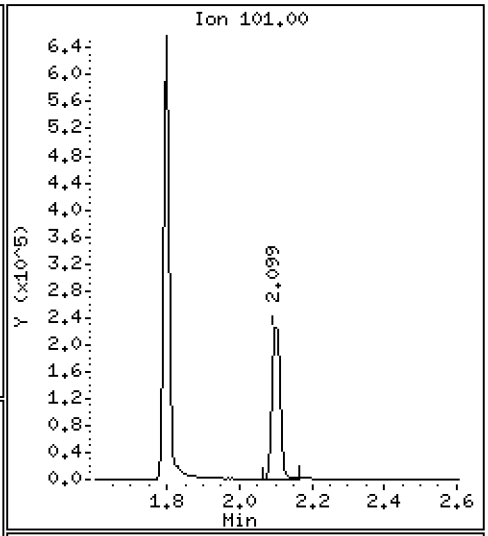
11 Freon 113 Concentration: 42.1057 ug/L

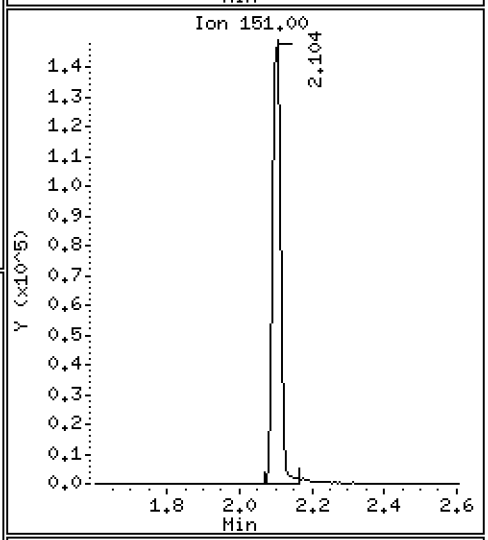


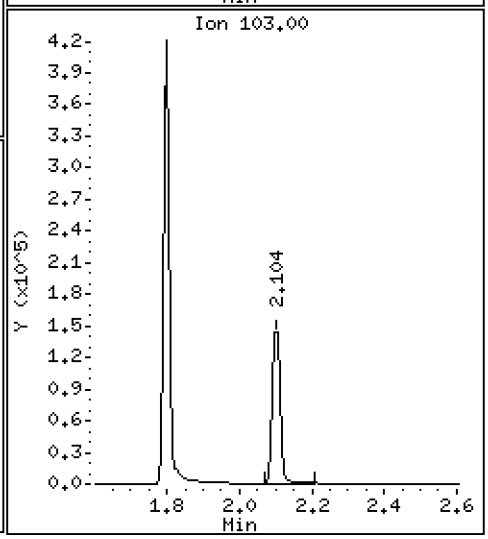












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 25

Date : 25-OCT-2016 09:17

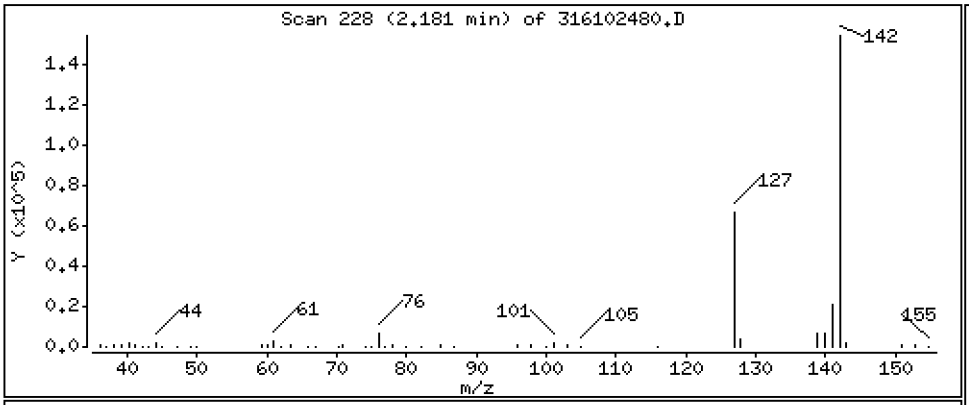
Client ID: Instrument: ms03.i

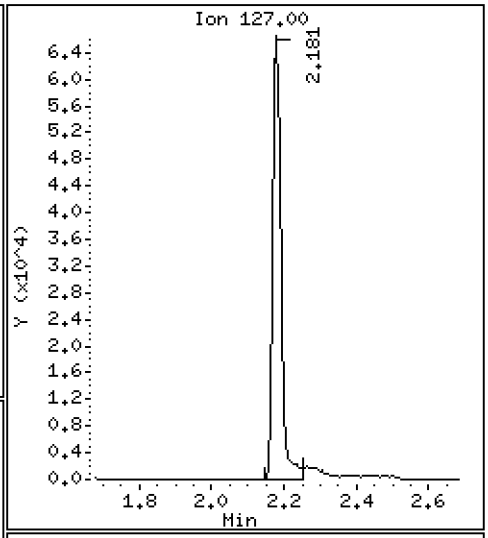
Sample Info: 1801;;1;2;4;;;

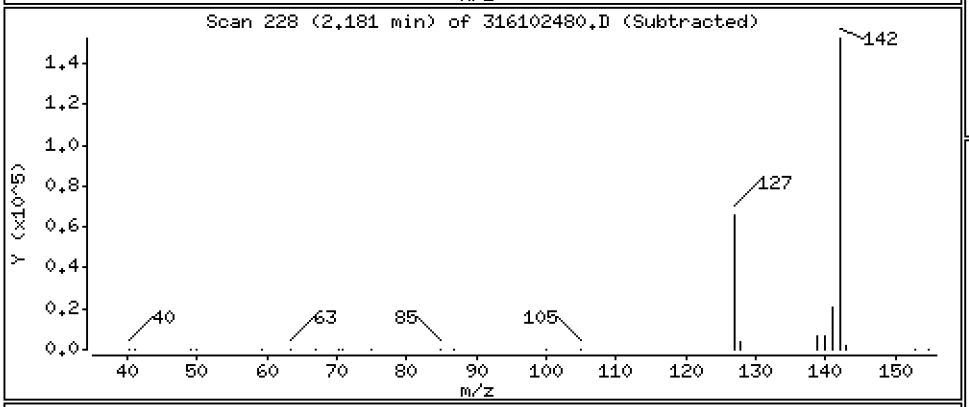
Purge Volume: 5.0 Operator: CJG

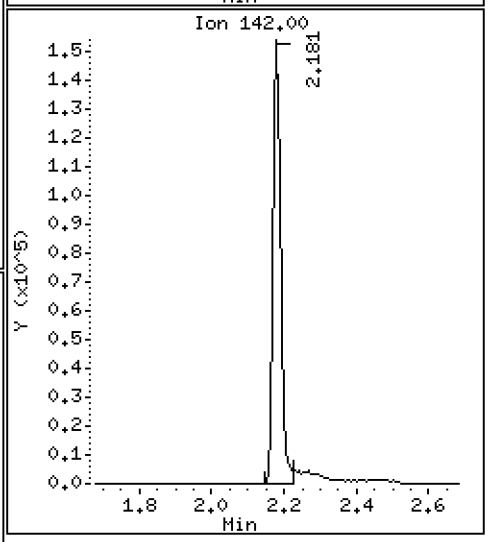
Column phase: DB-VRX Column diameter: 0.25

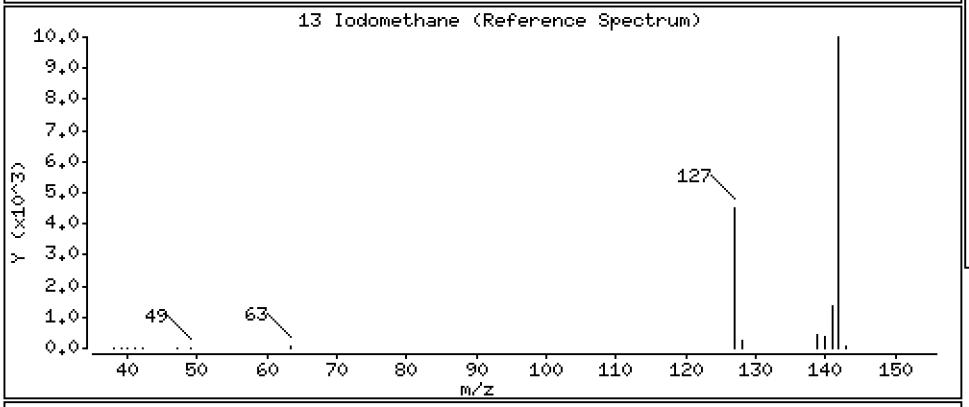
13 Iodomethane Concentration: 47.4847 ug/L

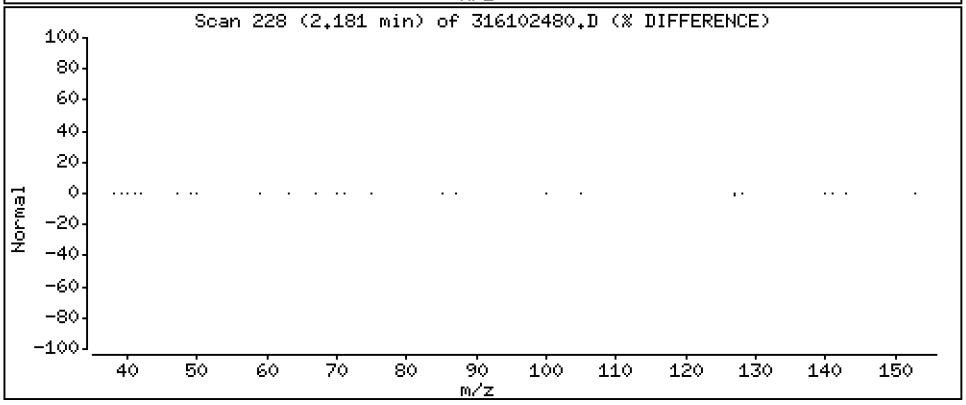












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 26

Date : 25-OCT-2016 09:17

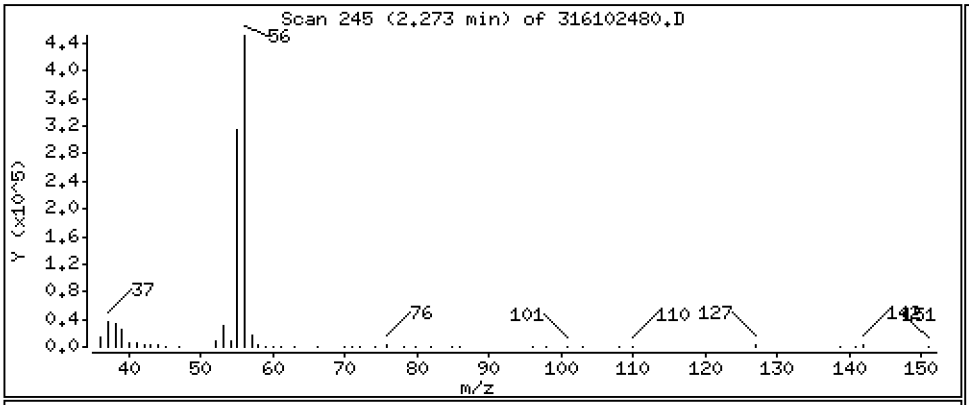
Client ID: Instrument: ms03.i

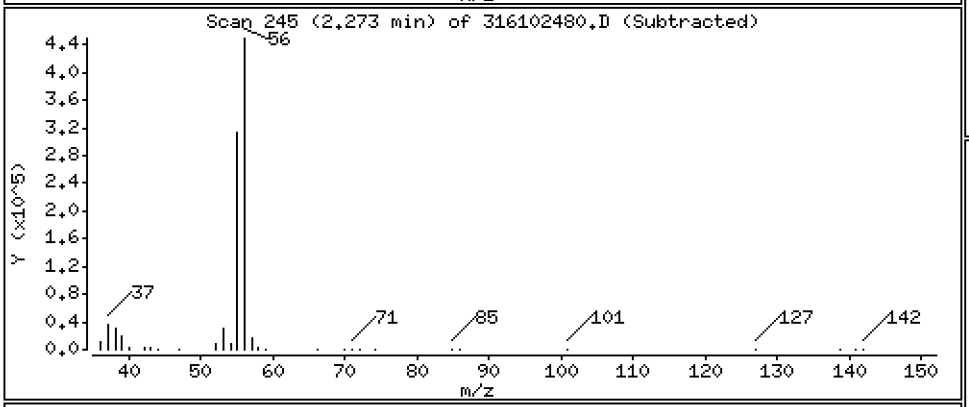
Sample Info: 1801;;1;2;4;;;

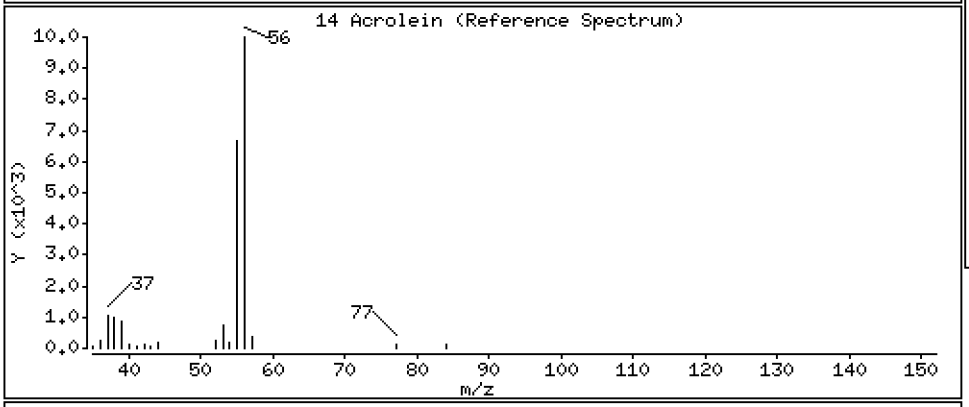
Purge Volume: 5.0 Operator: CJG

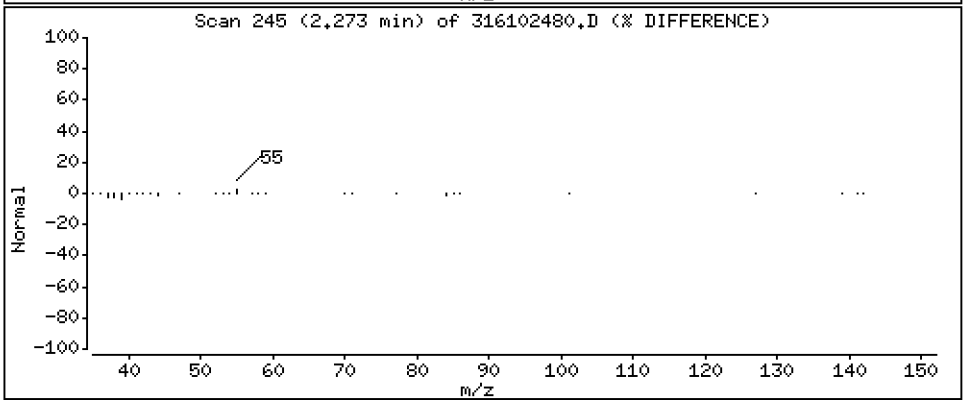
Column phase: DB-VRX Column diameter: 0.25

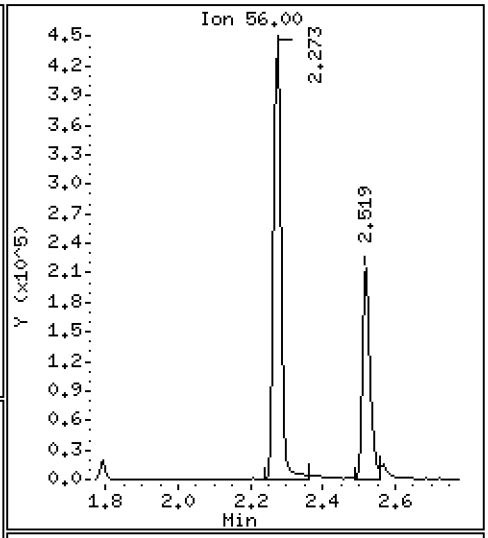
14 Acrolein Concentration: 466.804 ug/L

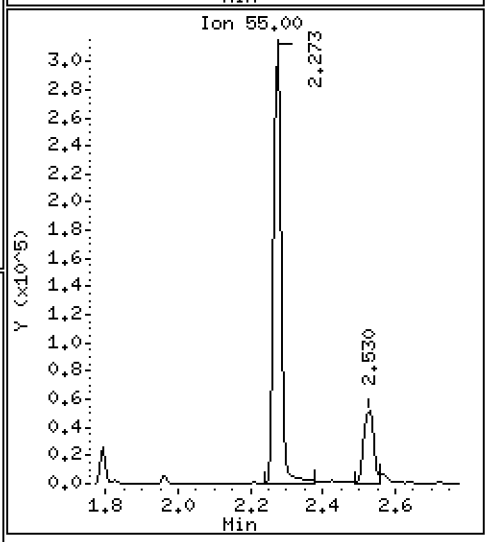












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 27

Date : 25-OCT-2016 09:17

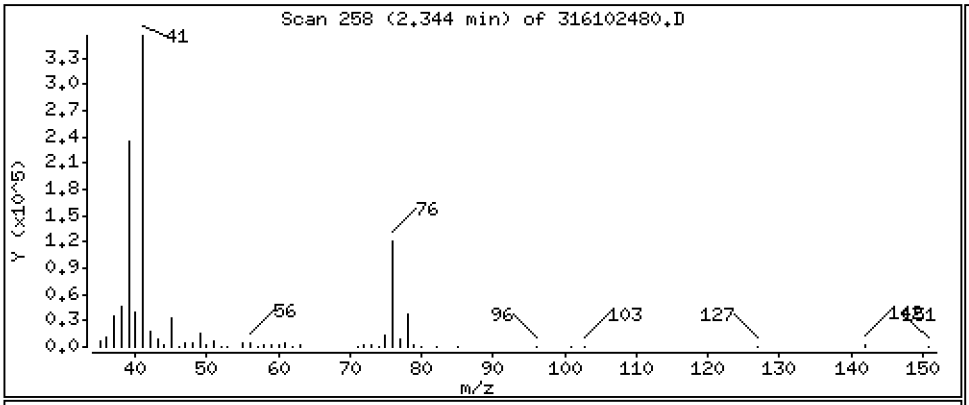
Client ID: Instrument: ms03.i

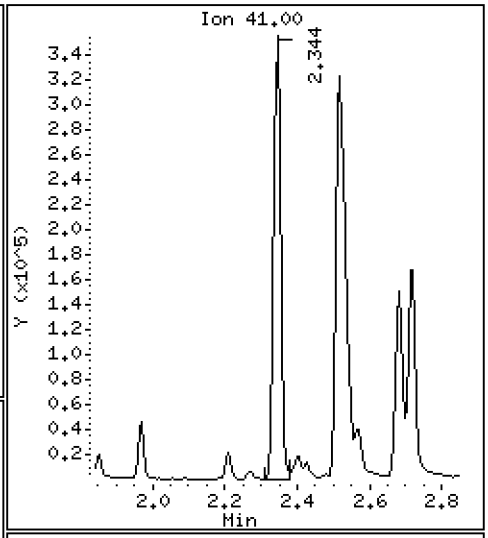
Sample Info: 1801;;1;2;4;;;

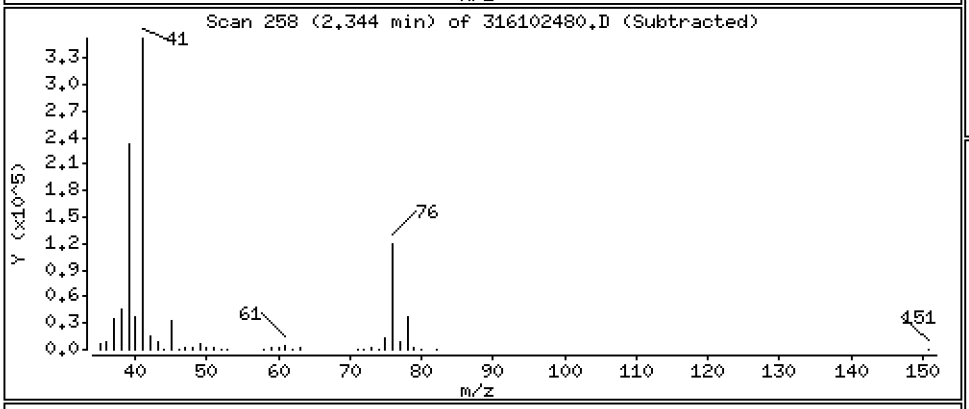
Purge Volume: 5.0 Operator: CJG

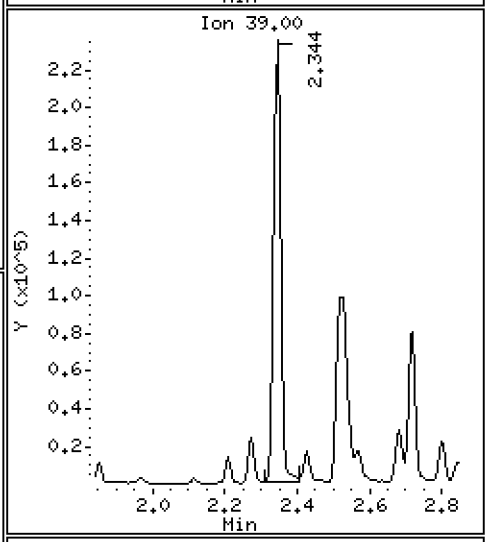
Column phase: DB-VRX Column diameter: 0.25

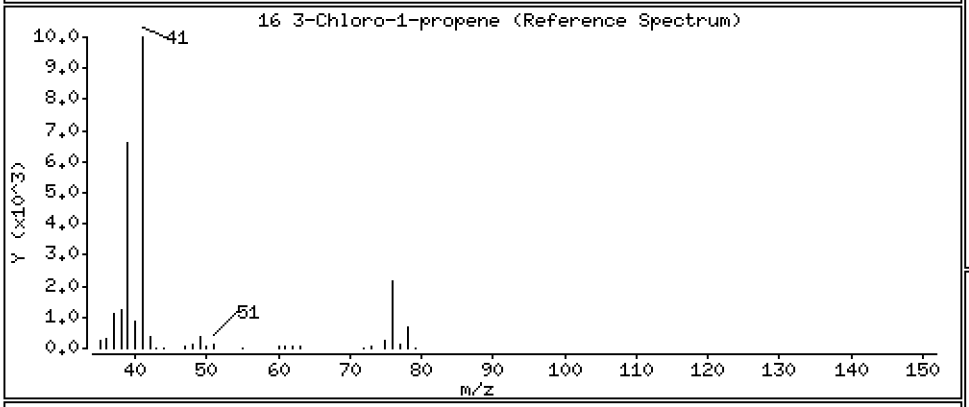
16 3-Chloro-1-propene Concentration: 38.9072 ug/L

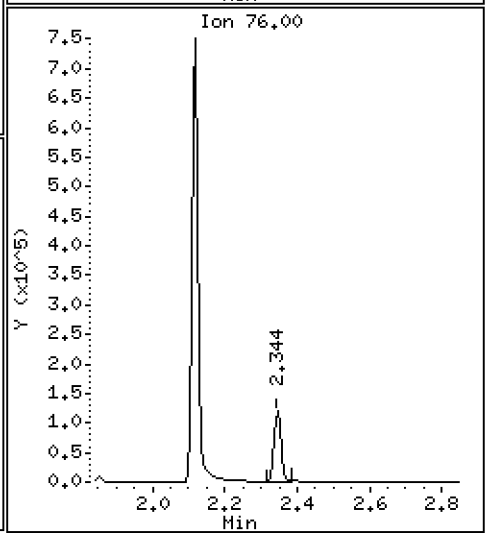


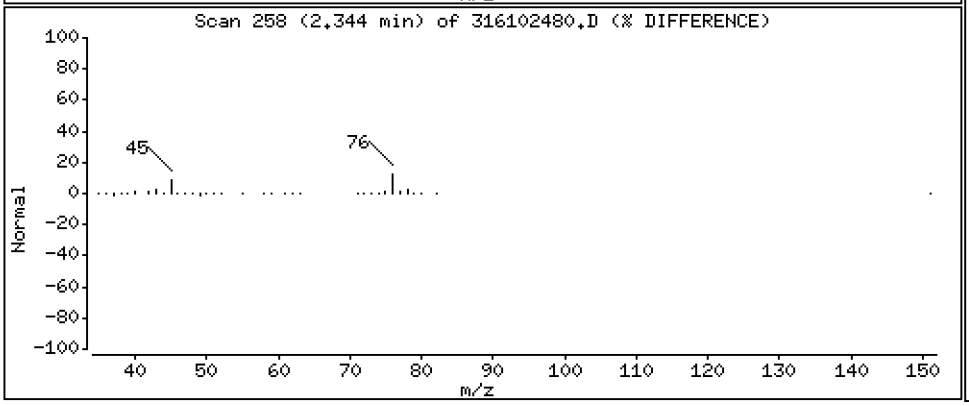












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 28

Date : 25-OCT-2016 09:17

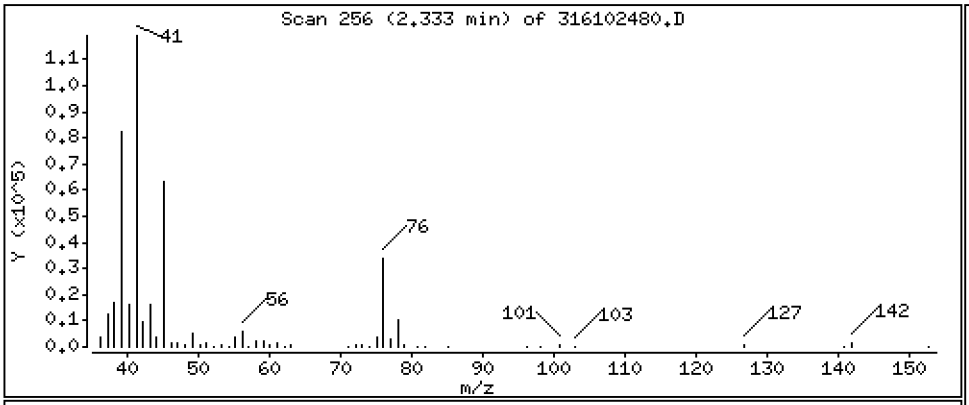
Client ID: Instrument: ms03.i

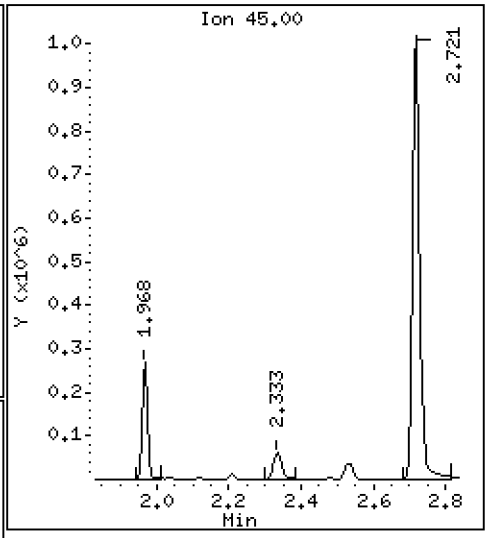
Sample Info: 1801;;1;2;4;;;

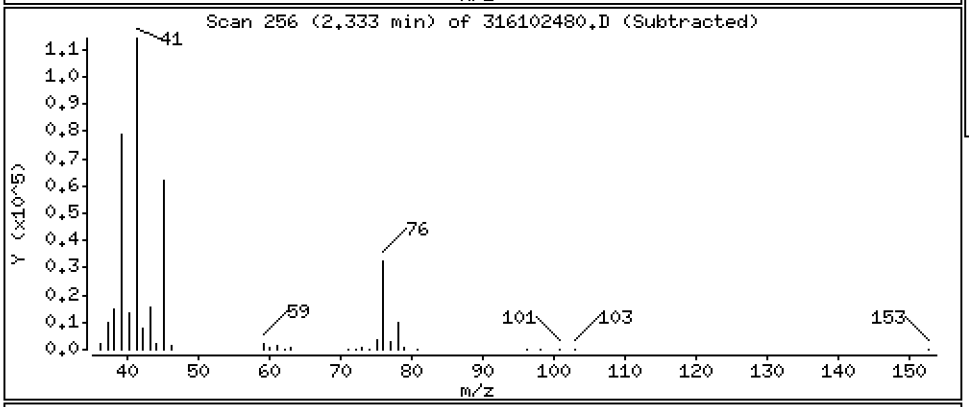
Purge Volume: 5.0 Operator: CJG

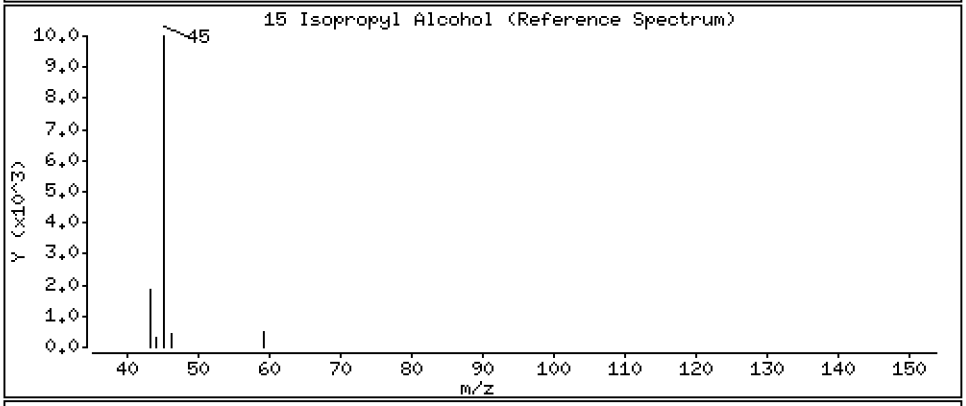
Column phase: DB-VRX Column diameter: 0.25

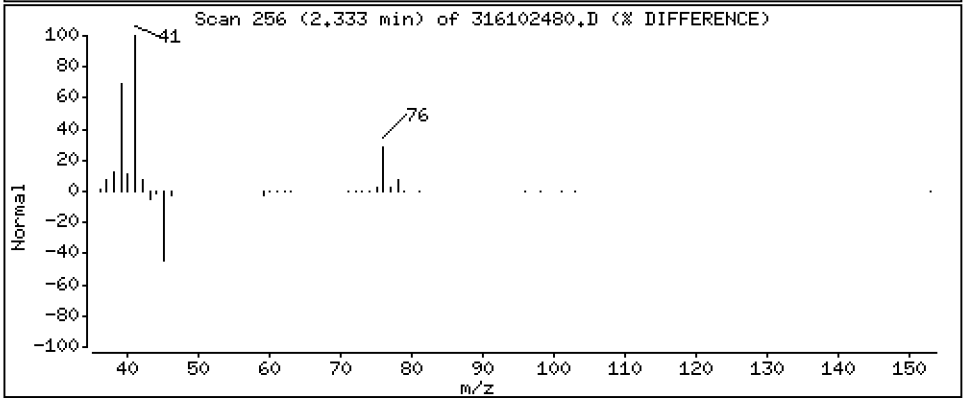
15 Isopropyl Alcohol Concentration: 331.836 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 29

Date : 25-OCT-2016 09:17

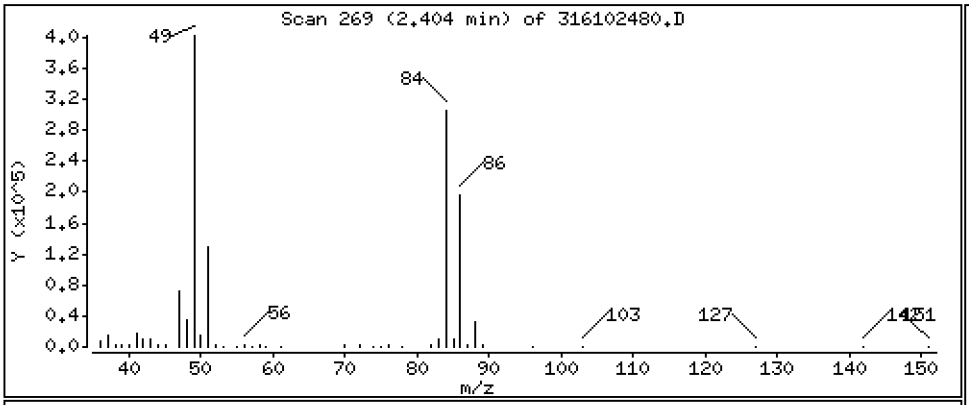
Client ID: Instrument: ms03.i

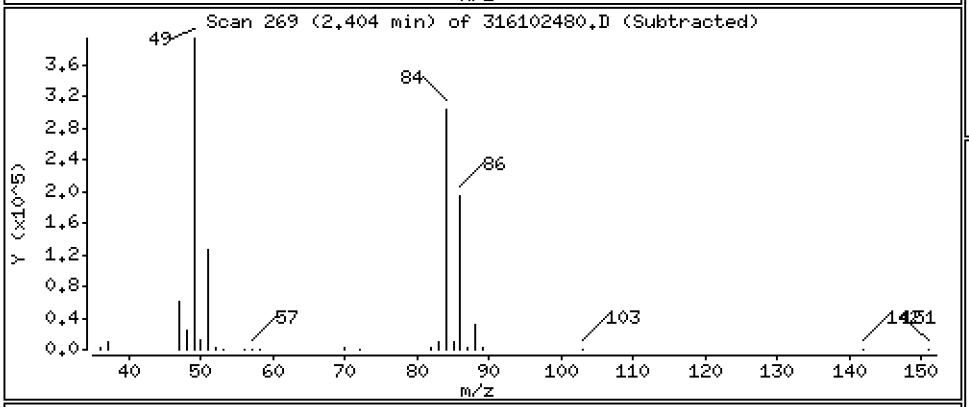
Sample Info: 1801;;1;2;4;;;

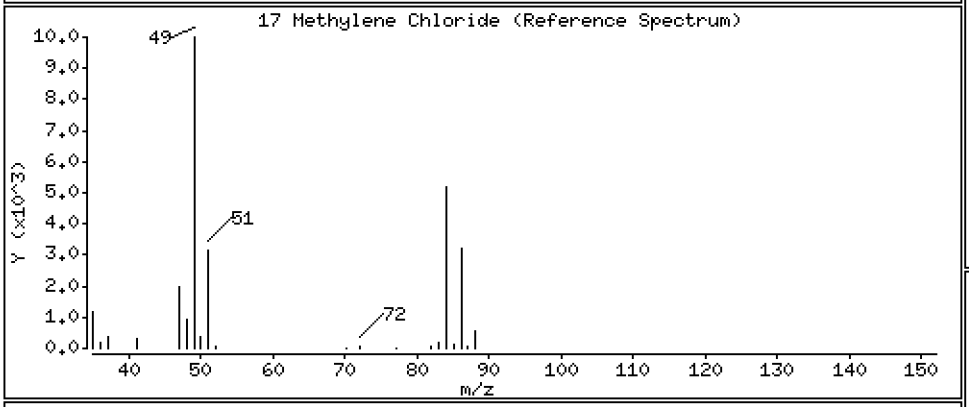
Purge Volume: 5.0 Operator: CJG

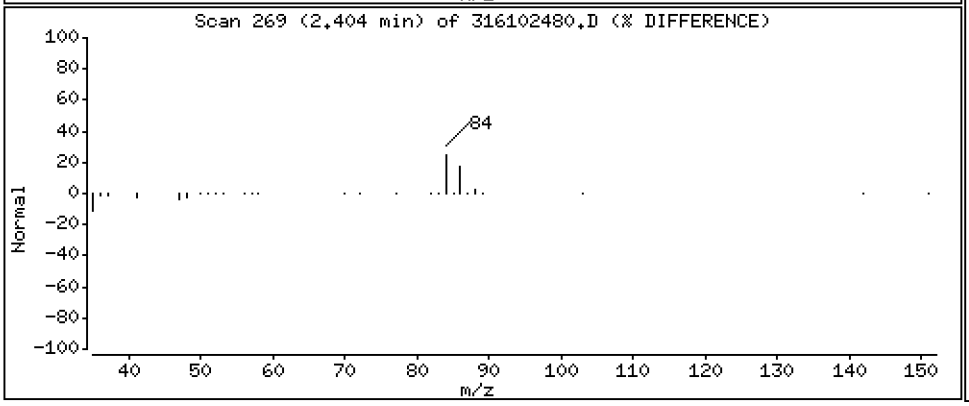
Column phase: DB-VRX Column diameter: 0.25

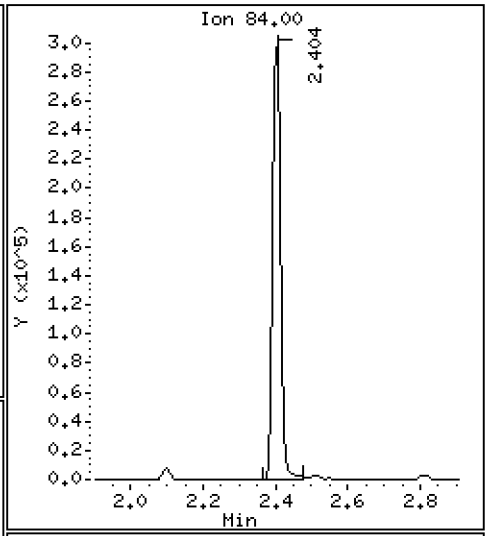
17 Methylene Chloride Concentration: 47.4578 ug/L

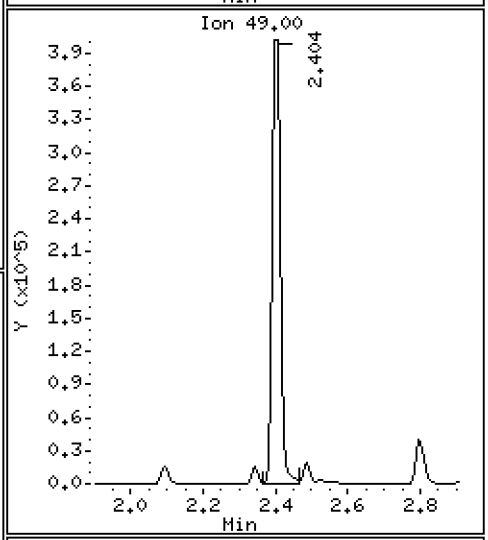


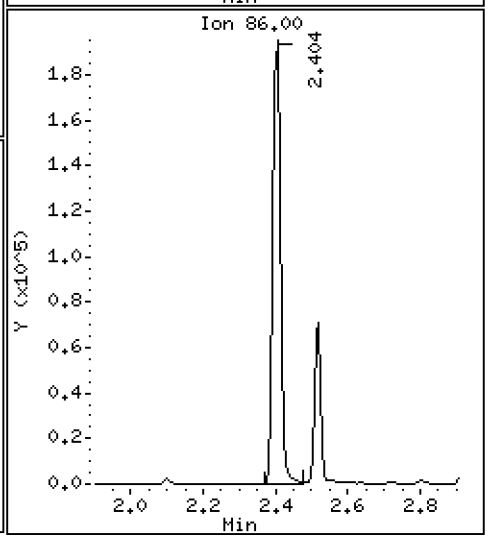












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 30

Date : 25-OCT-2016 09:17

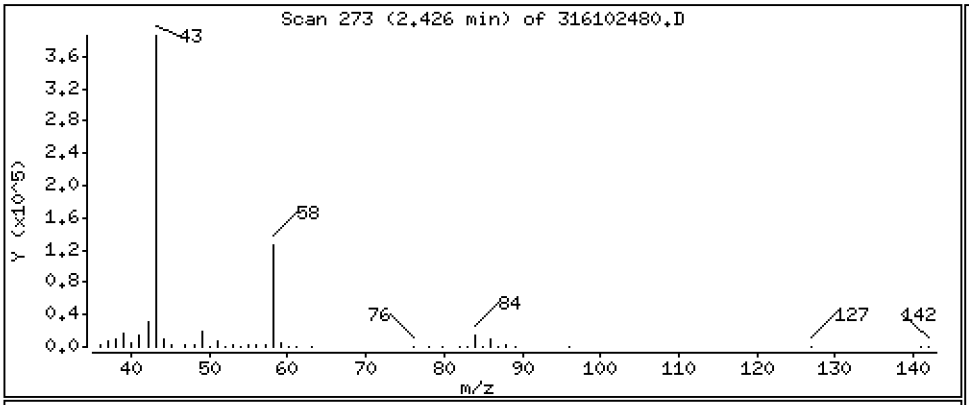
Client ID: Instrument: ms03.i

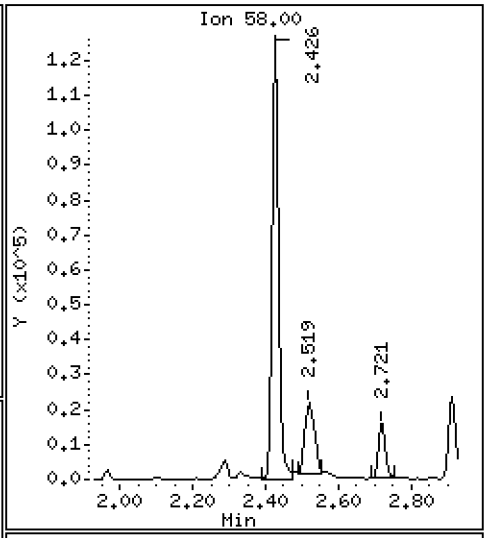
Sample Info: 1801;;1;2;4;;;

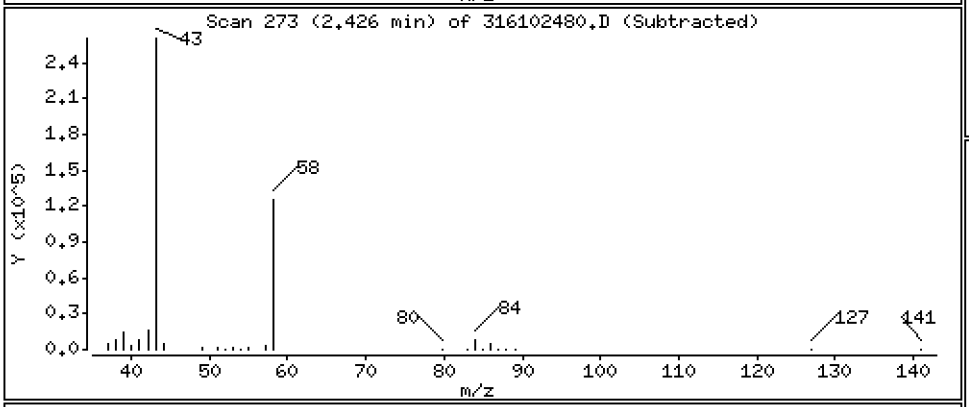
Purge Volume: 5.0 Operator: CJG

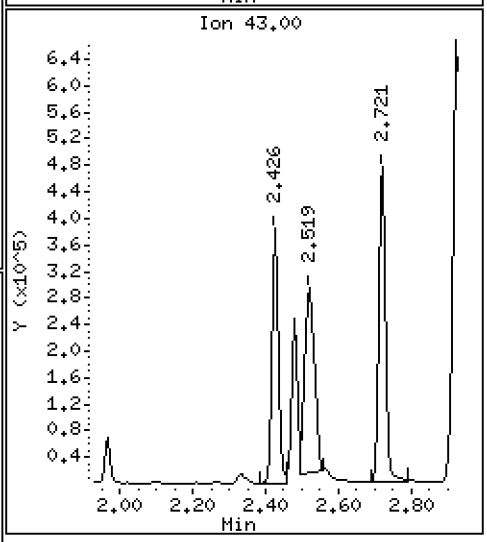
Column phase: DB-VRX Column diameter: 0.25

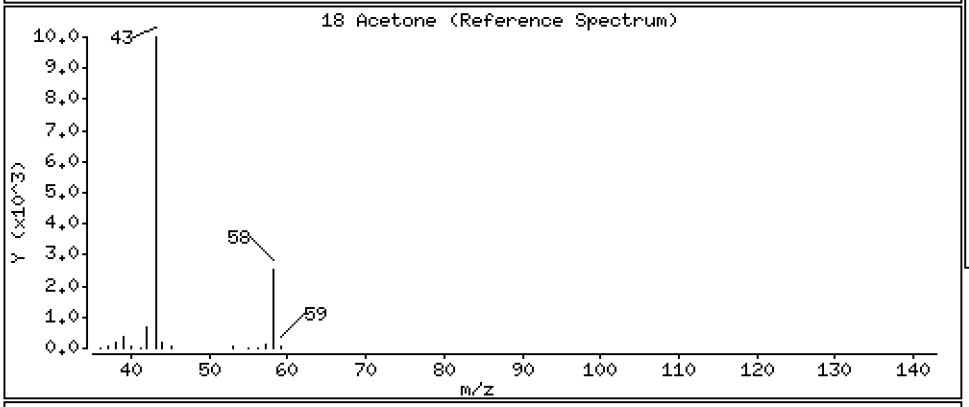
18 Acetone Concentration: 246.522 ug/L

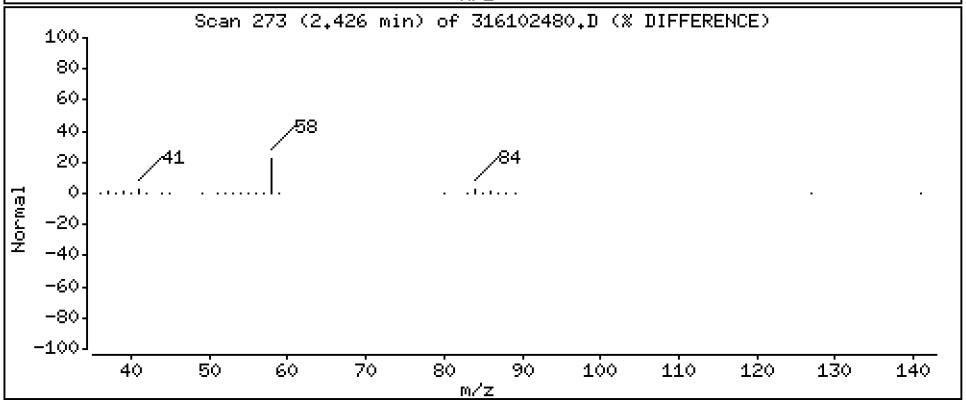












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 31

Date : 25-OCT-2016 09:17

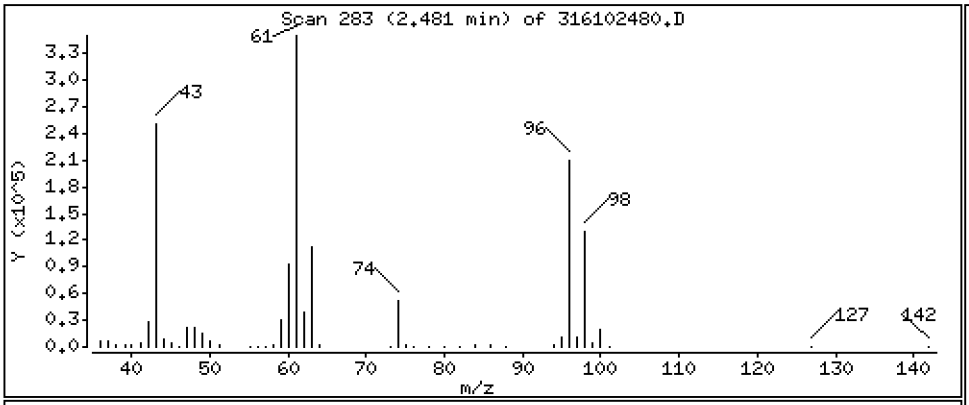
Client ID: Instrument: ms03.i

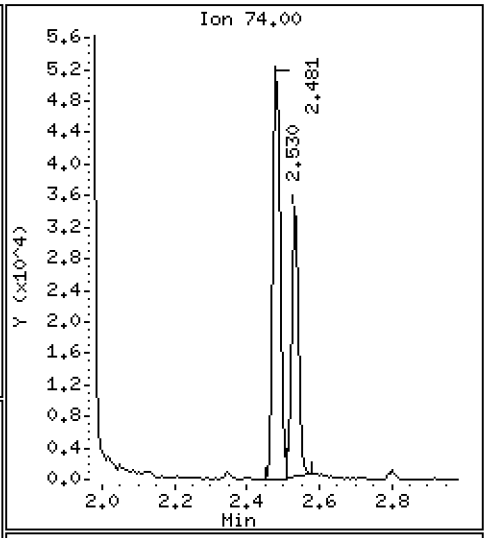
Sample Info: 1801;;1;2;4;;;

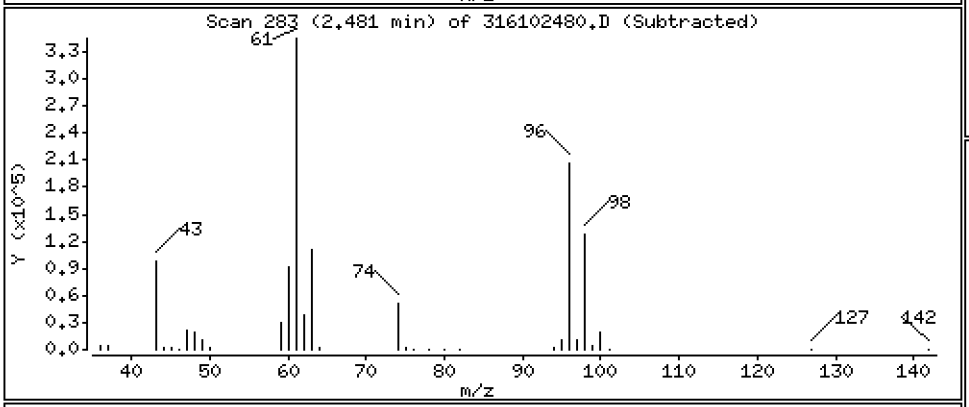
Purge Volume: 5.0 Operator: CJG

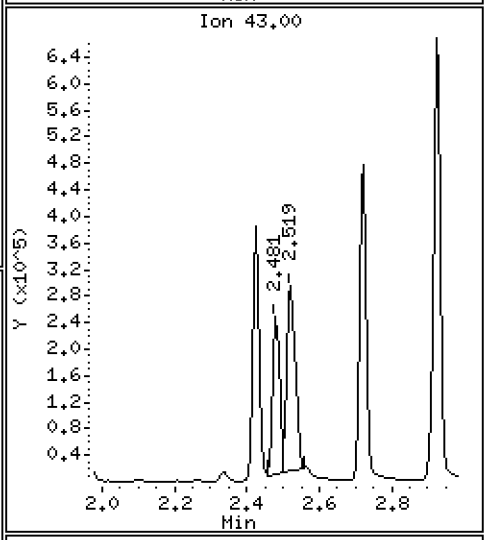
Column phase: DB-VRX Column diameter: 0.25

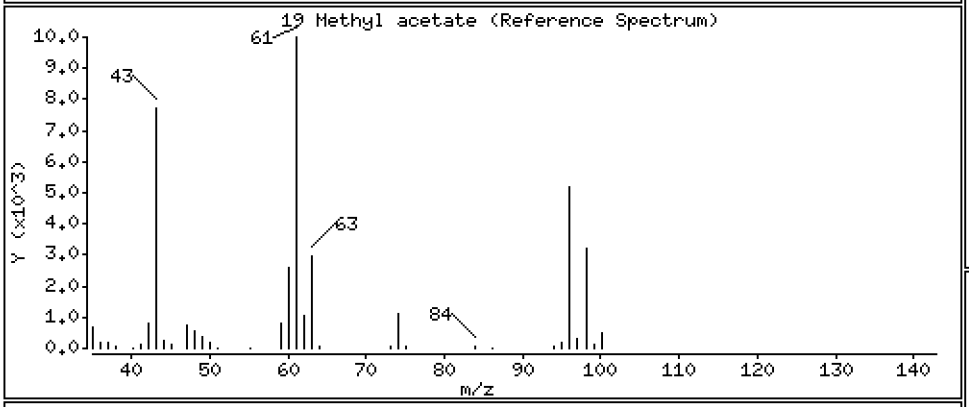
19 Methyl acetate Concentration: 47.7866 ug/L

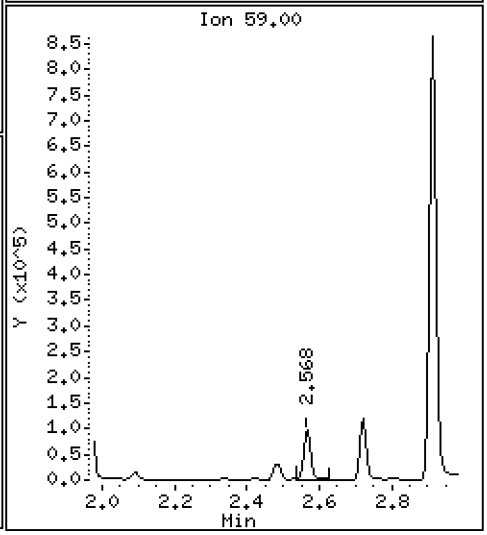


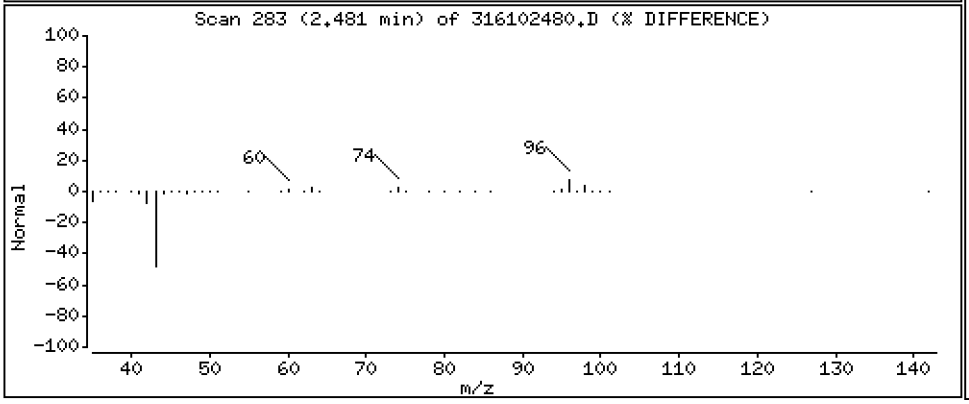












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 32

Date : 25-OCT-2016 09:17

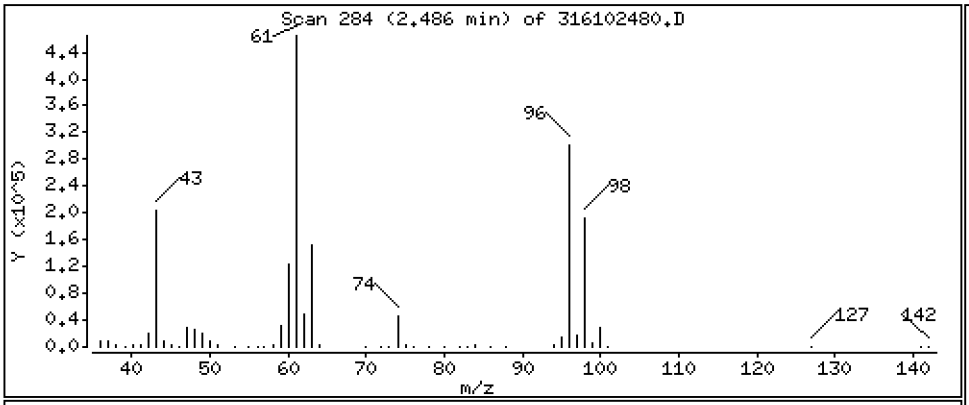
Client ID: Instrument: ms03.i

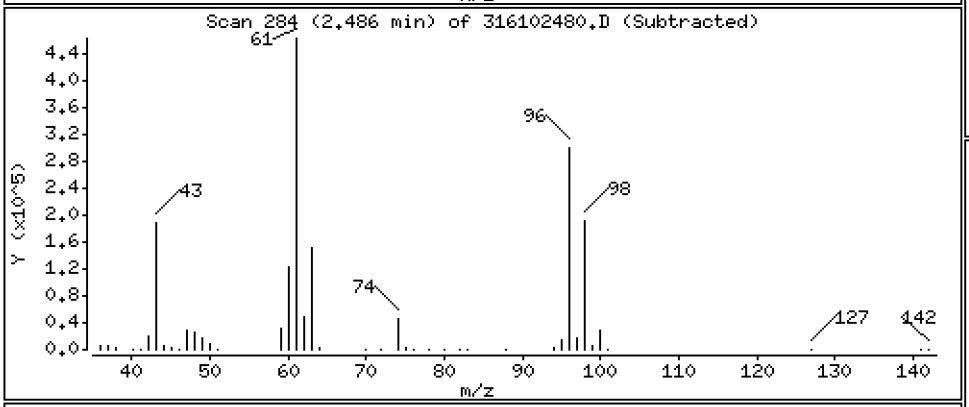
Sample Info: 1801;;1;2;4;;;

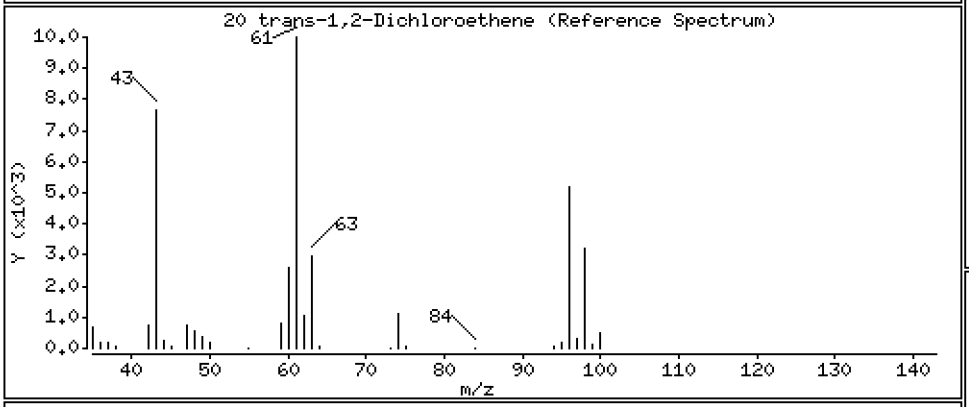
Purge Volume: 5.0 Operator: CJG

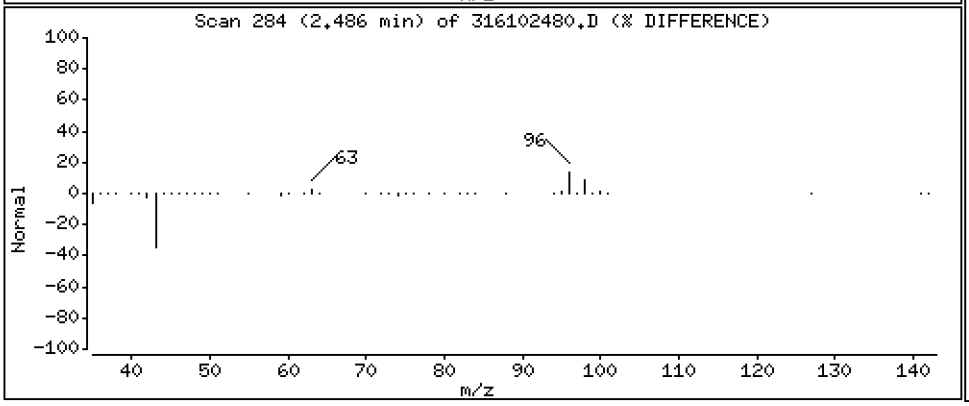
Column phase: DB-VRX Column diameter: 0.25

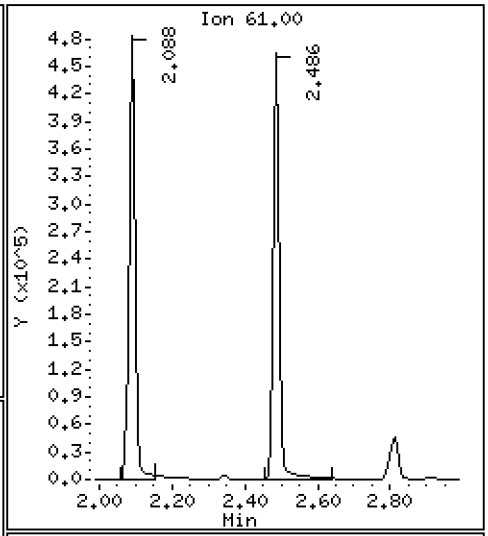
20 trans-1,2-Dichloroethene Concentration: 45.3409 ug/L

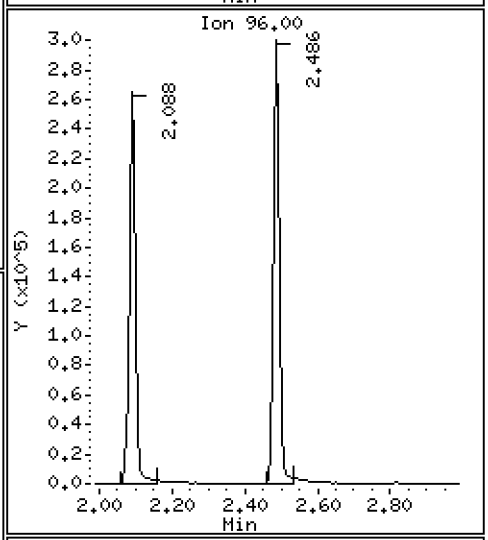


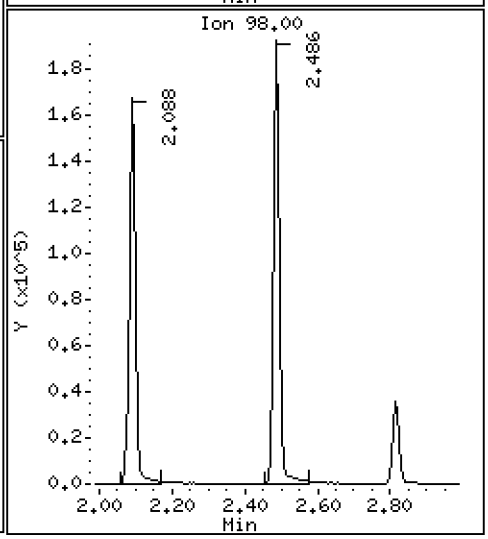












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 33

Date : 25-OCT-2016 09:17

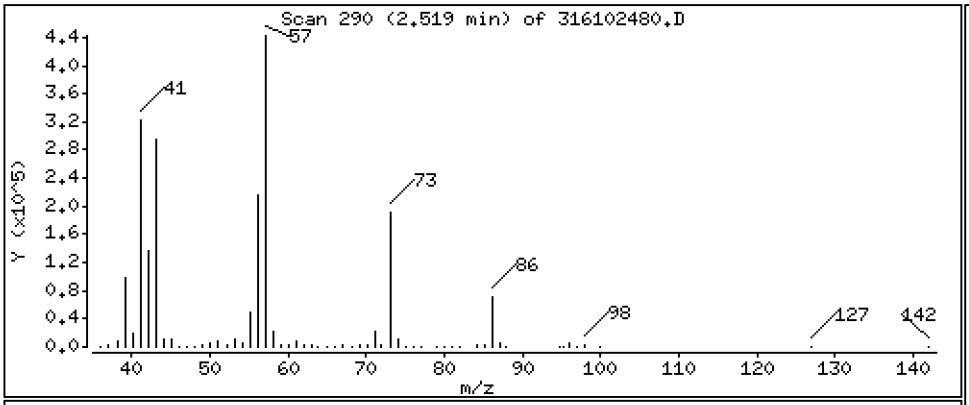
Client ID: Instrument: ms03.i

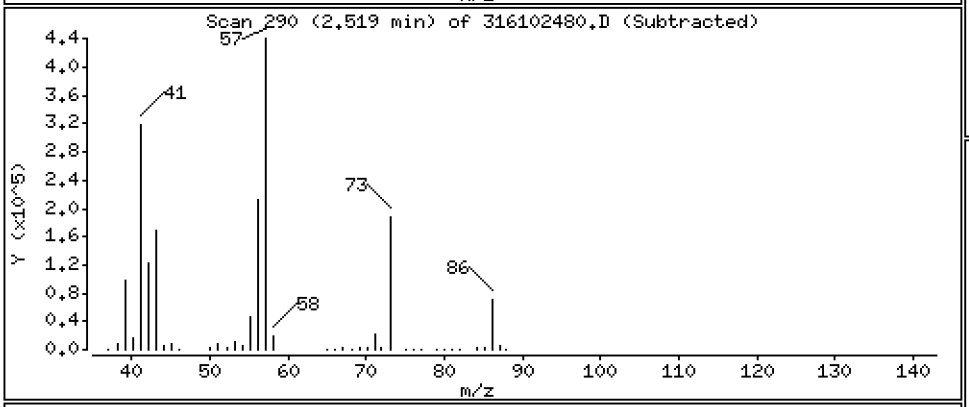
Sample Info: 1801;;1;2;4;;;

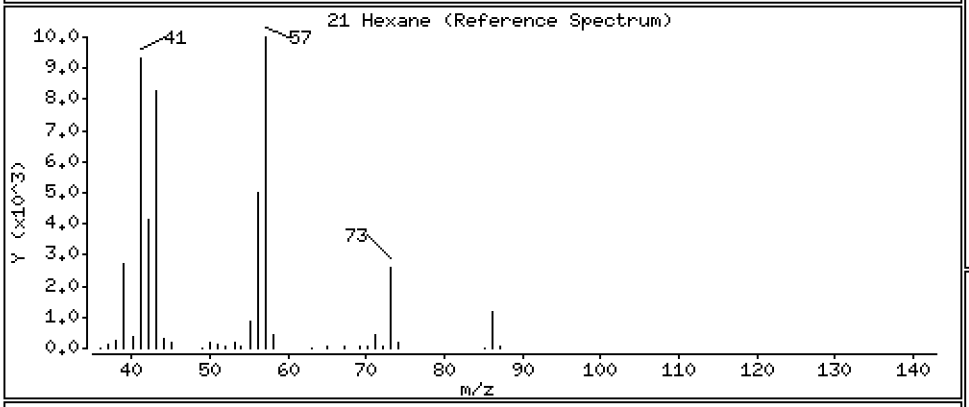
Purge Volume: 5.0 Operator: CJG

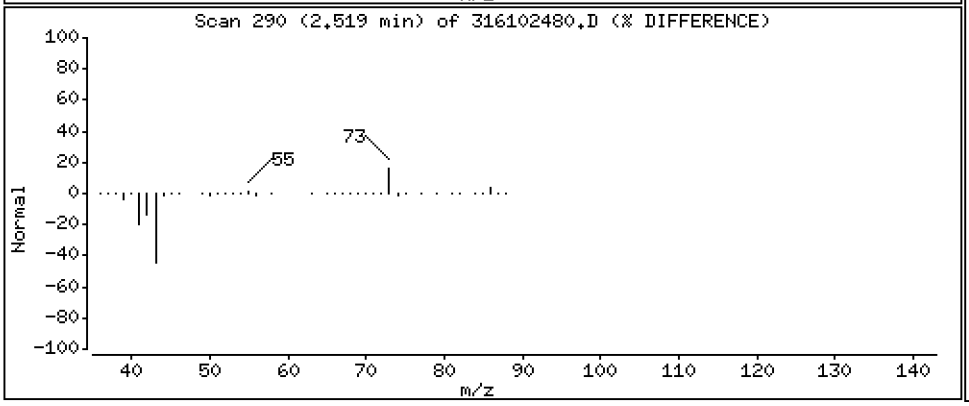
Column phase: DB-VRX Column diameter: 0.25

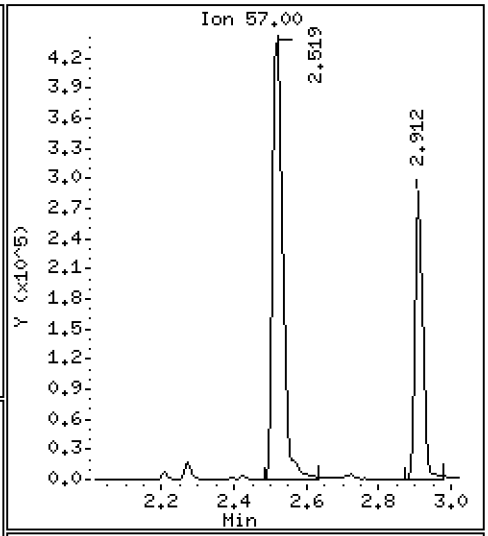
21 Hexane Concentration: 44.3159 ug/L

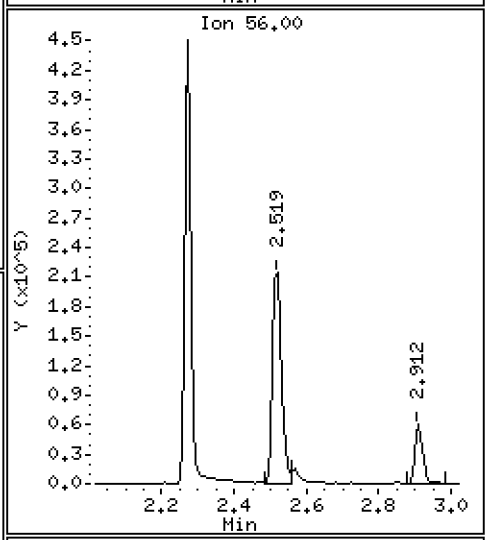


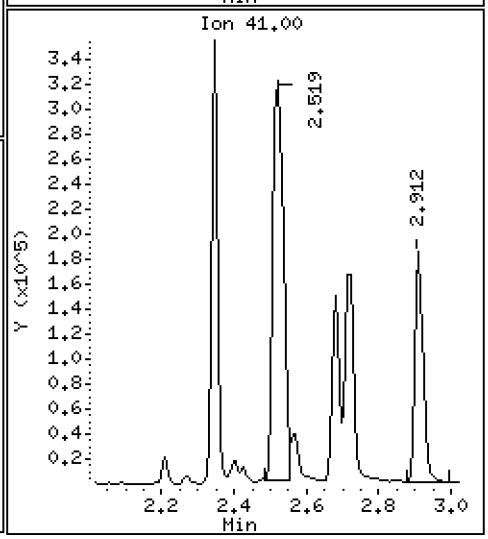












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 34

Date : 25-OCT-2016 09:17

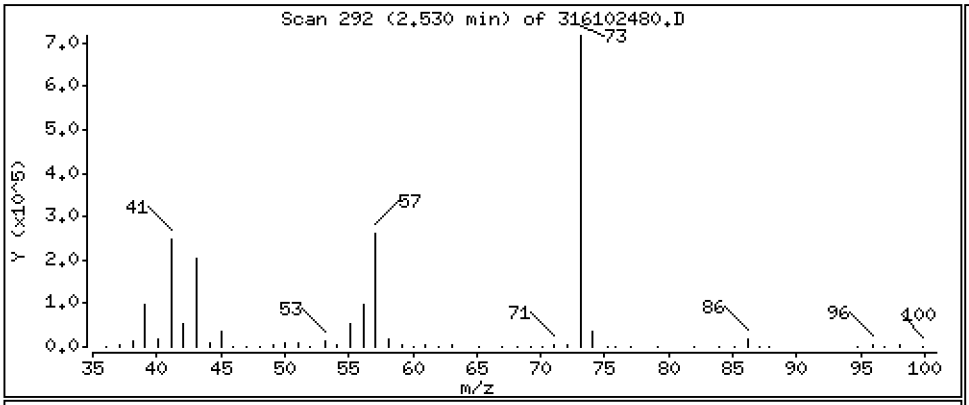
Client ID: Instrument: ms03.i

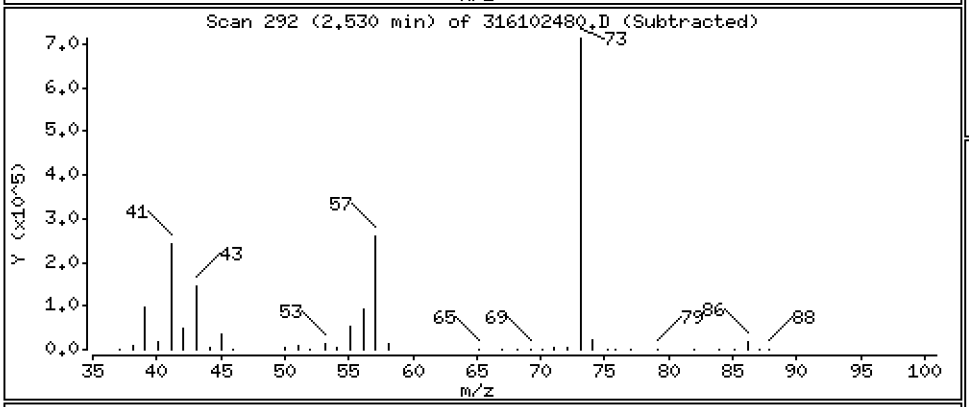
Sample Info: 1801;;1;2;4;;;

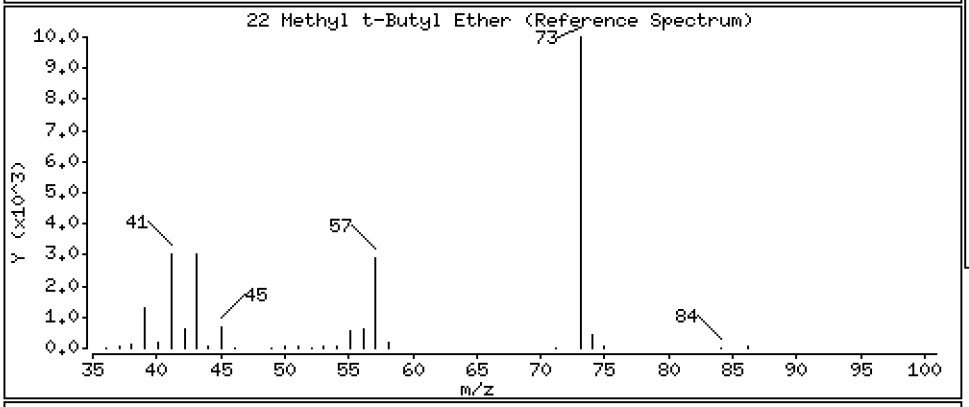
Purge Volume: 5.0 Operator: CJG

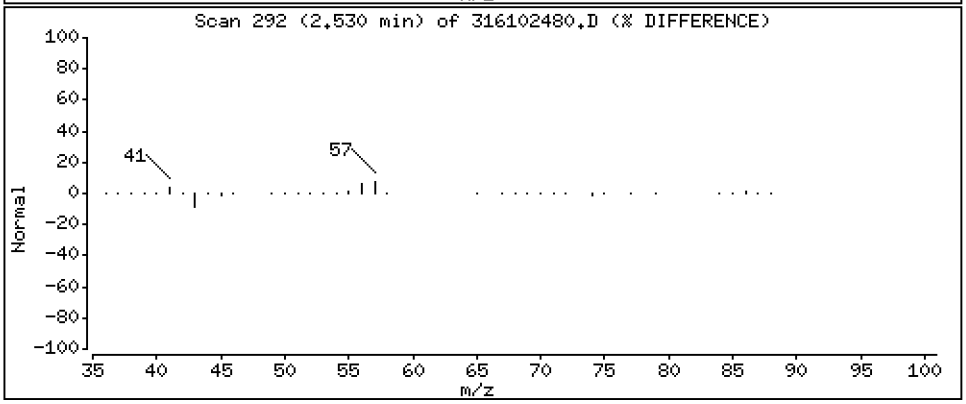
Column phase: DB-VRX Column diameter: 0.25

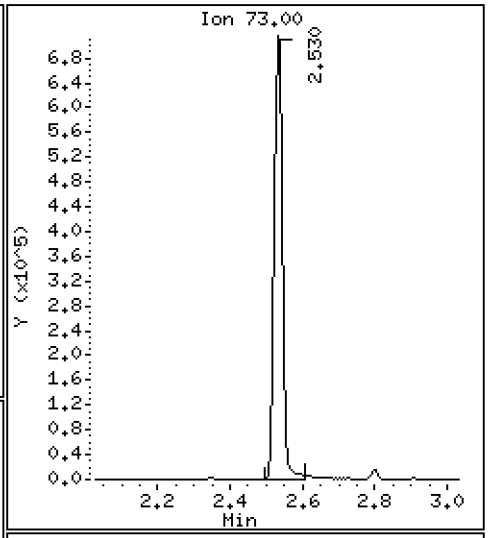
22 Methyl t-Butyl Ether Concentration: 47.0318 ug/L

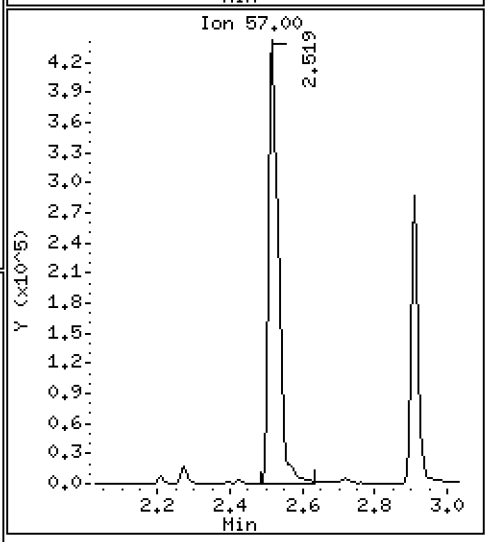












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 35

Date : 25-OCT-2016 09:17

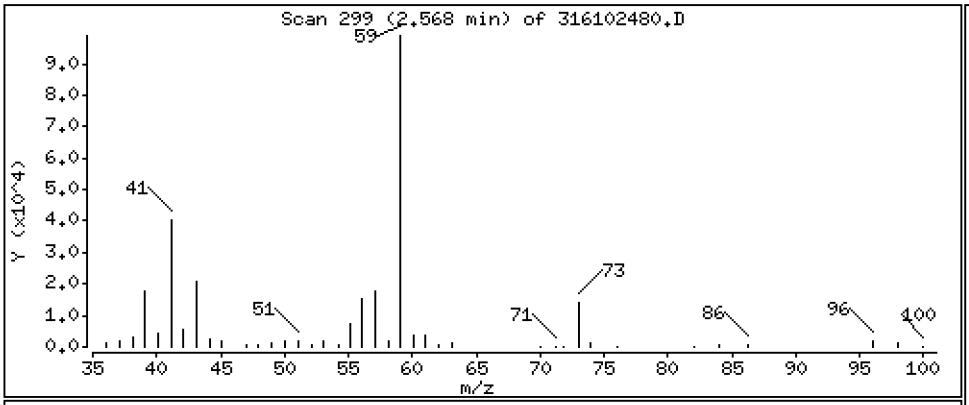
Client ID: Instrument: ms03.i

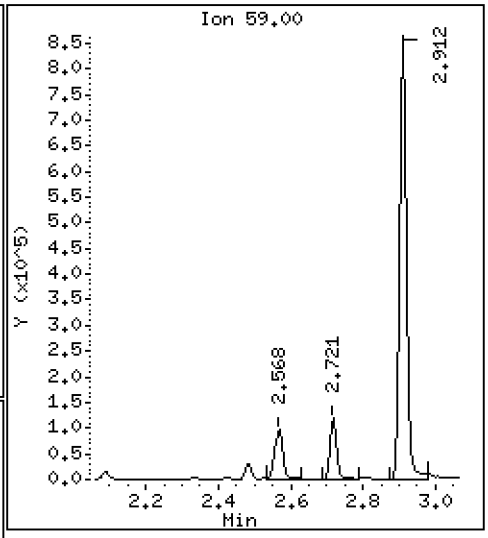
Sample Info: 1801;;1;2;4;;;

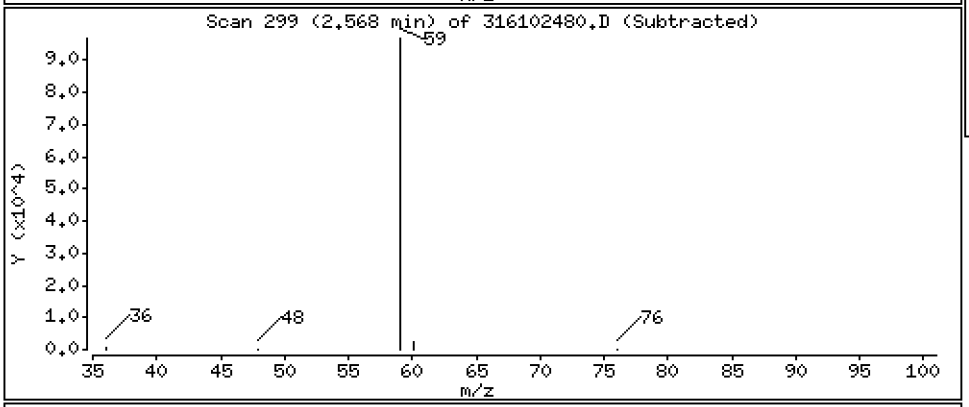
Purge Volume: 5.0 Operator: CJG

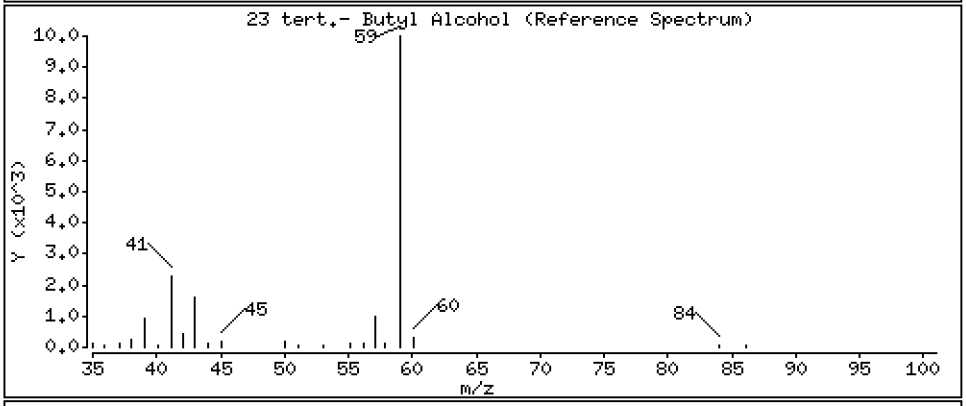
Column phase: DB-VRX Column diameter: 0.25

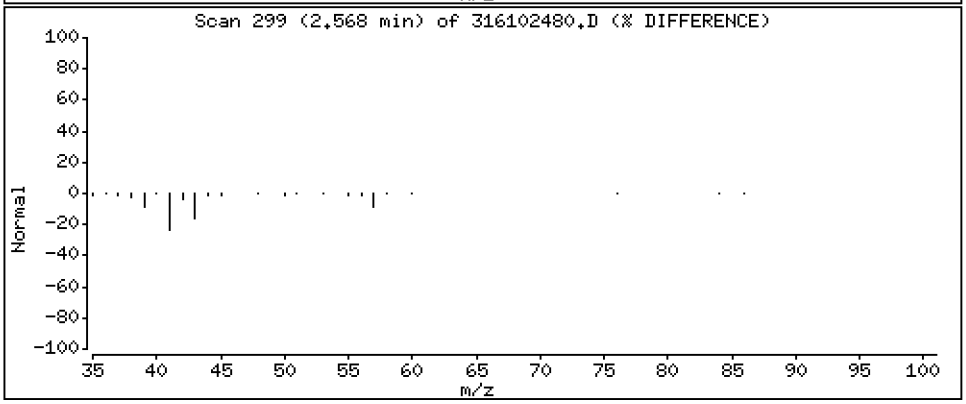
23 tert.- Butyl Alcohol Concentration: 293.368 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 36

Date : 25-OCT-2016 09:17

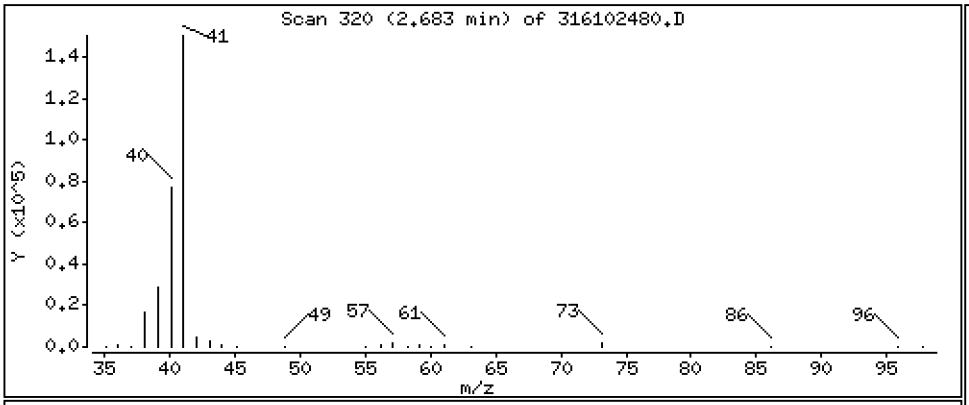
Client ID: Instrument: ms03.i

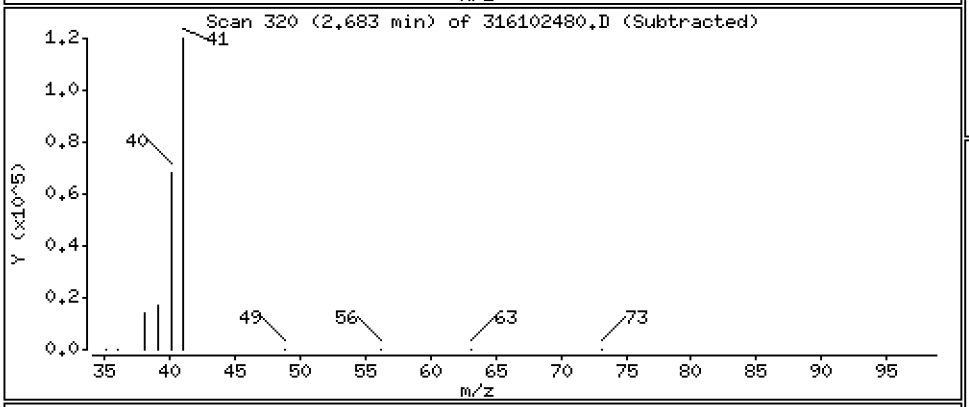
Sample Info: 1801;;1;2;4;;;

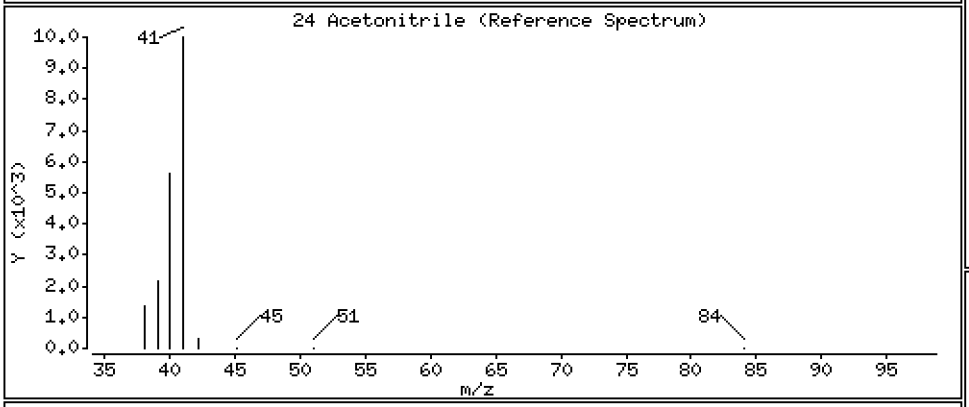
Purge Volume: 5.0 Operator: CJG

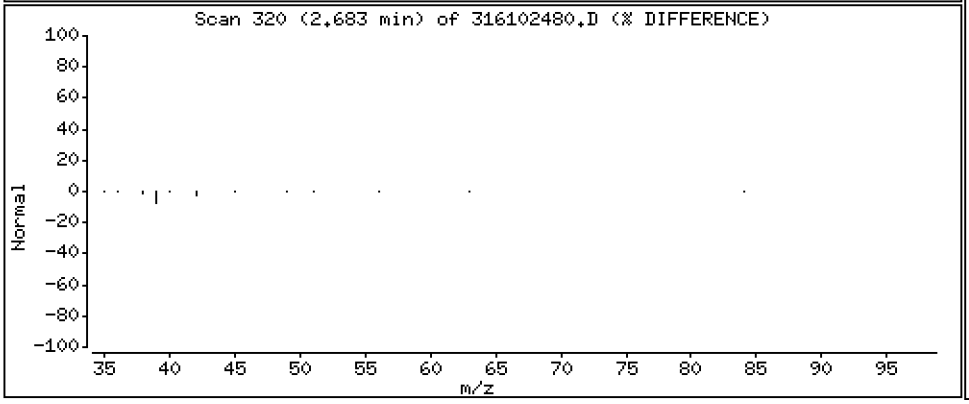
Column phase: DB-VRX Column diameter: 0.25

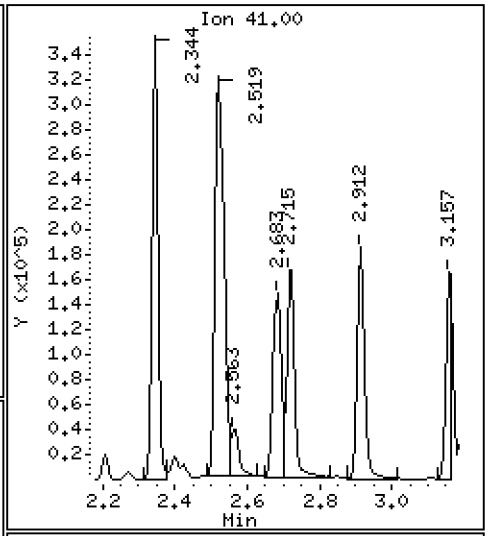
24 Acetonitrile Concentration: 299.923 ug/L

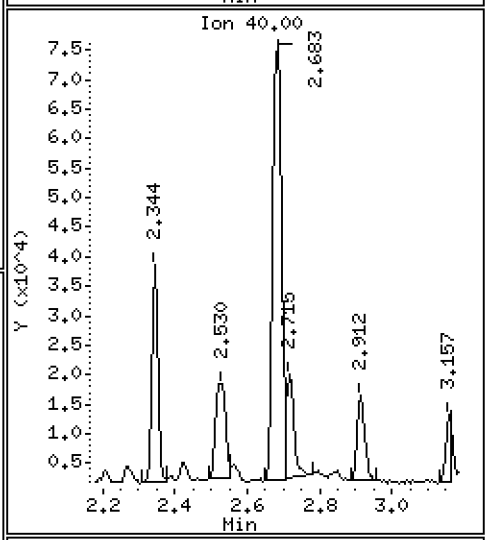


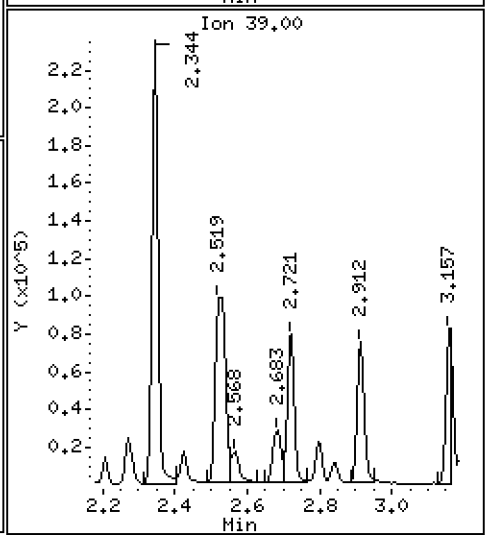












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 37

Date : 25-OCT-2016 09:17

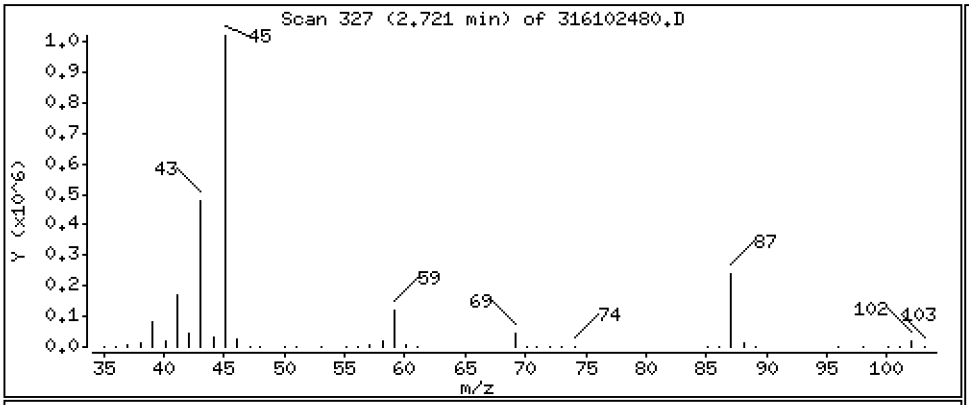
Client ID: Instrument: ms03.i

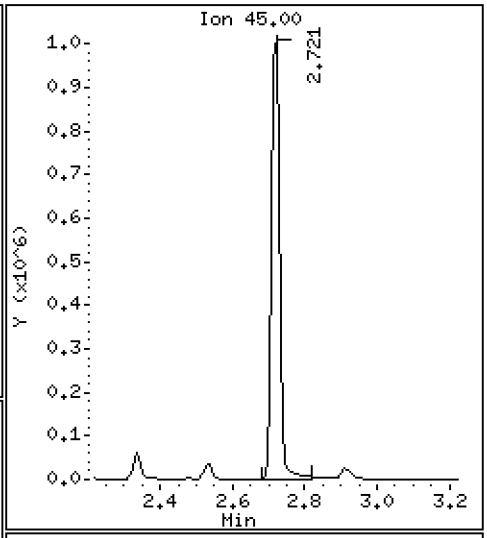
Sample Info: 1801;;1;2;4;;;

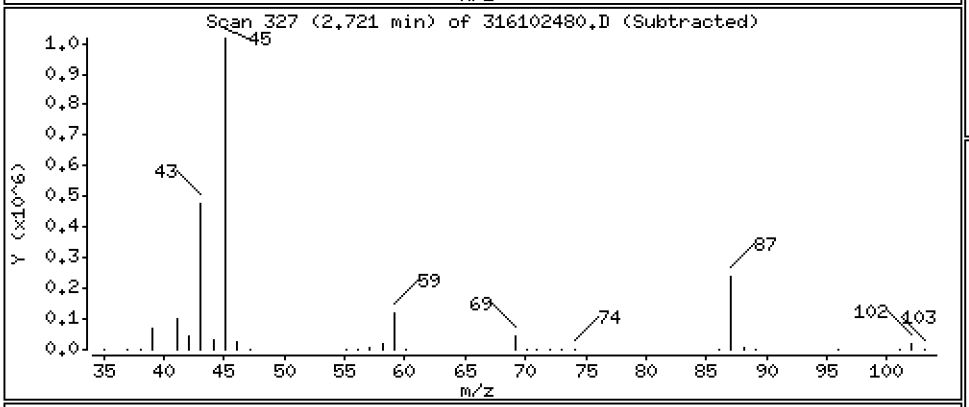
Purge Volume: 5.0 Operator: CJG

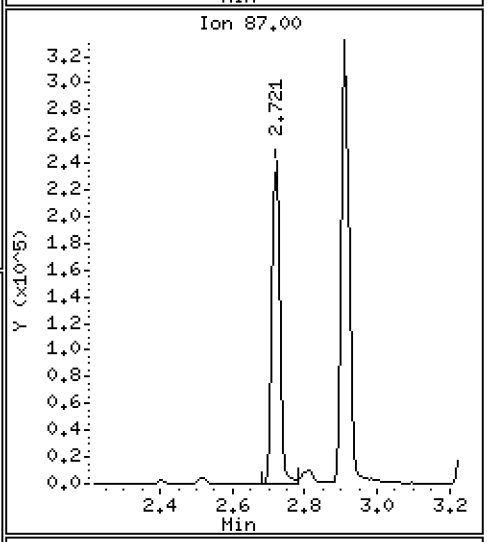
Column phase: DB-VRX Column diameter: 0.25

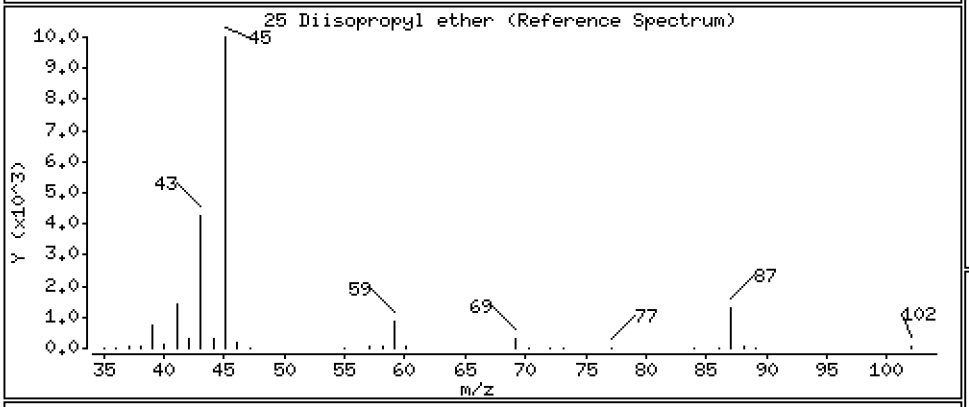
25 Diisopropyl ether Concentration: 49.3766 ug/L

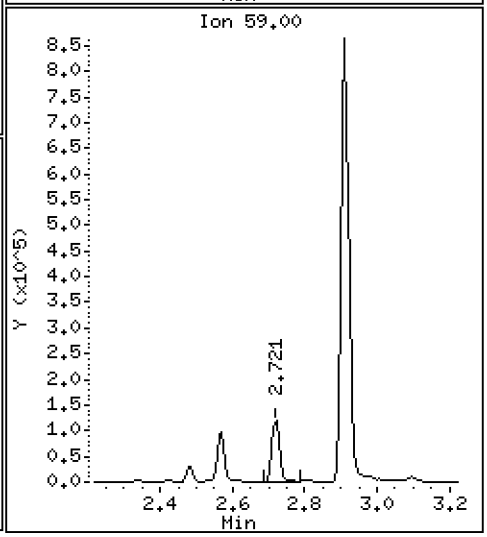


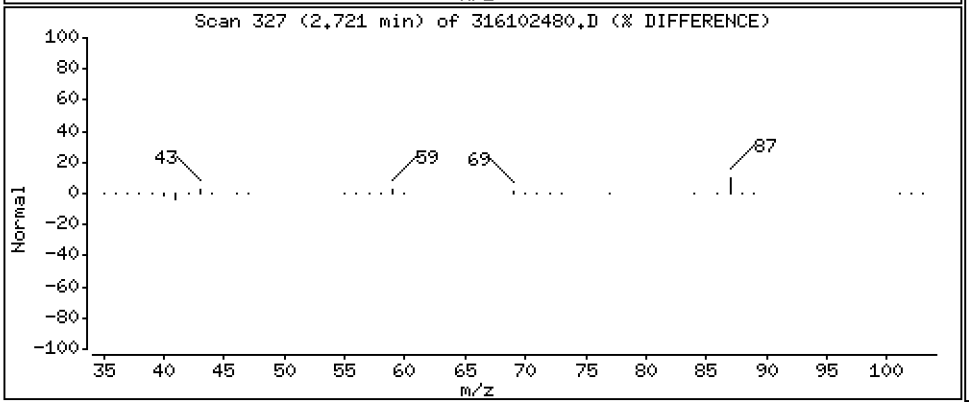












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 38

Date : 25-OCT-2016 09:17

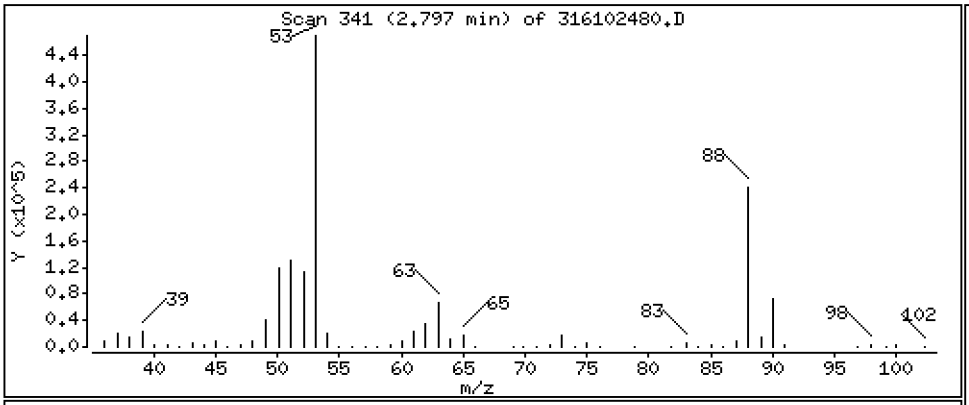
Client ID: Instrument: ms03.i

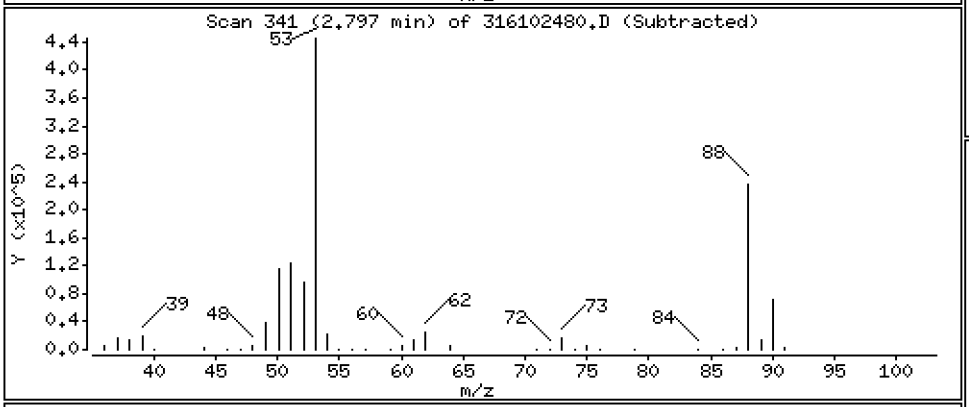
Sample Info: 1801;;1;2;4;;;

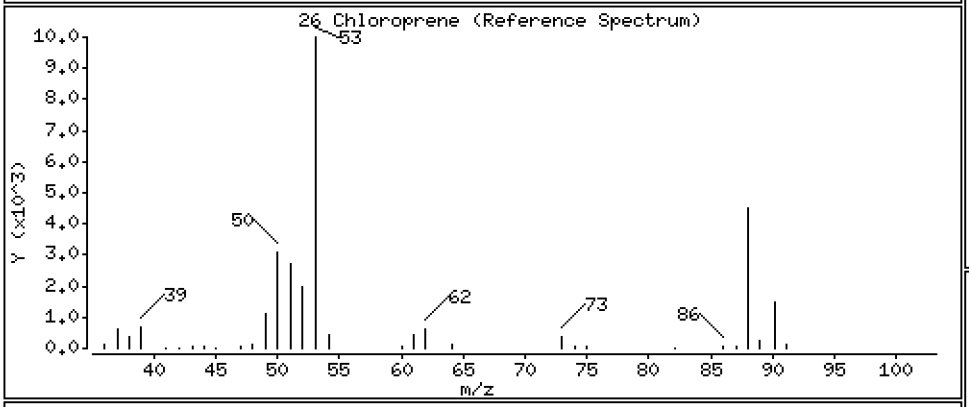
Purge Volume: 5.0 Operator: CJG

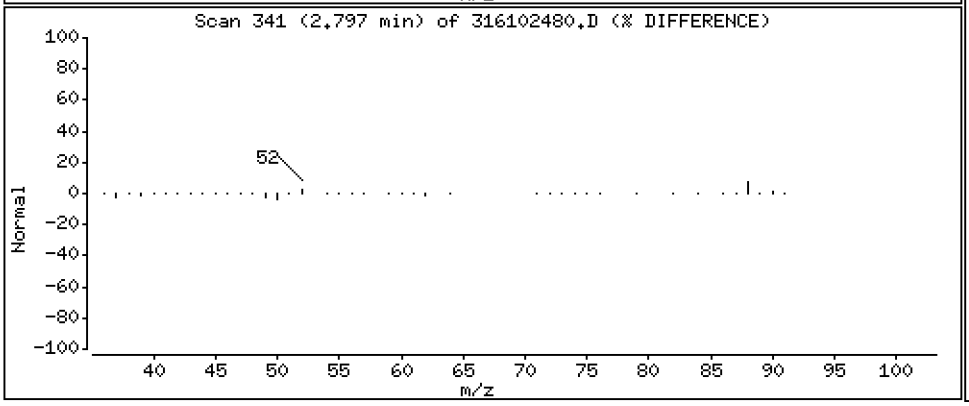
Column phase: DB-VRX Column diameter: 0.25

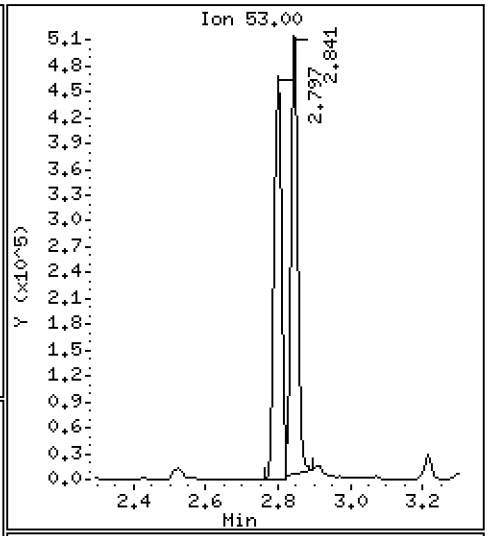
26 Chloroprene Concentration: 47.7884 ug/L

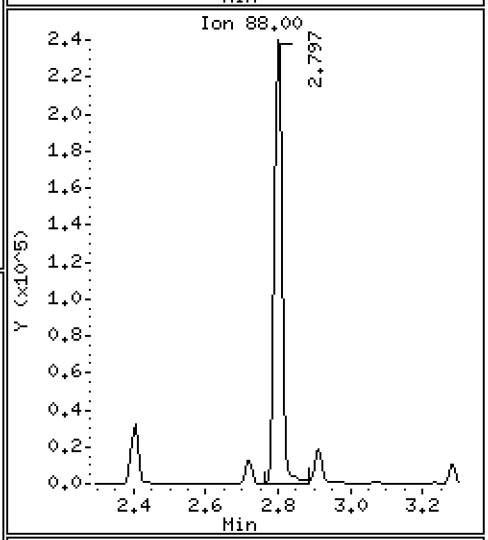


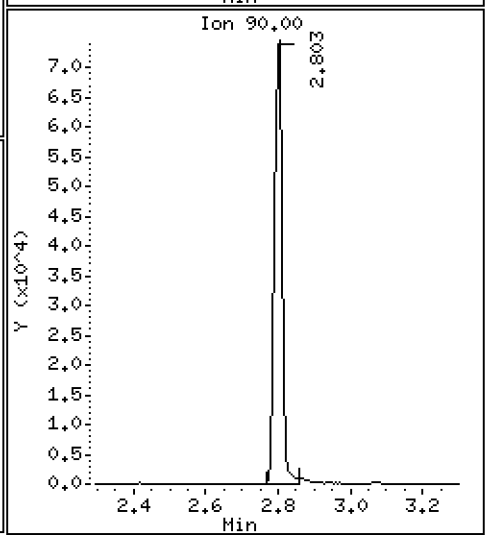












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 39

Date : 25-OCT-2016 09:17

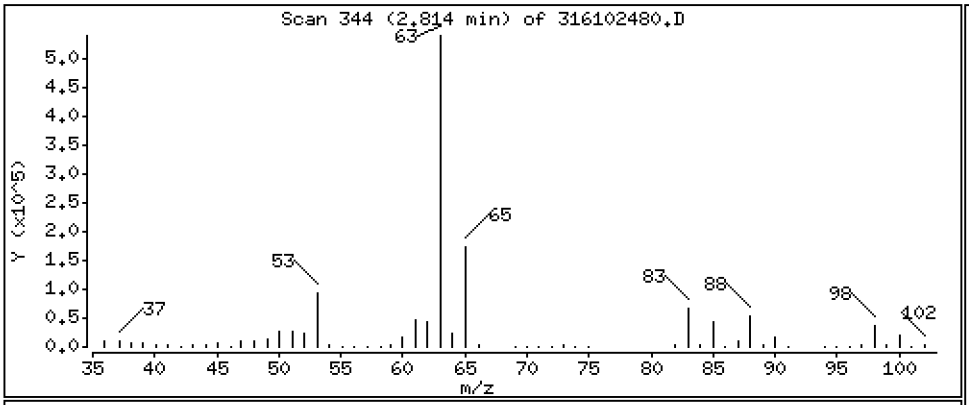
Client ID: Instrument: ms03.i

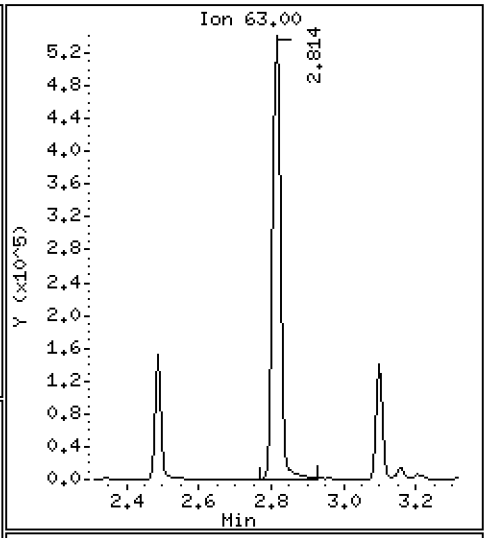
Sample Info: 1801;;1;2;4;;;

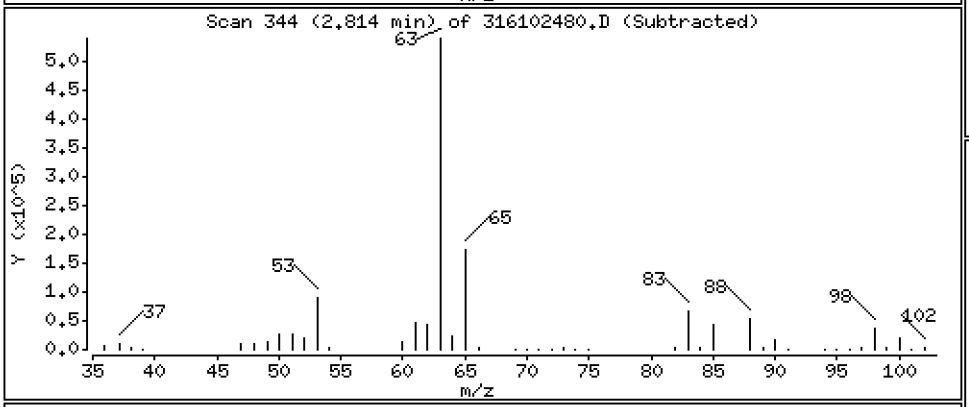
Purge Volume: 5.0 Operator: CJG

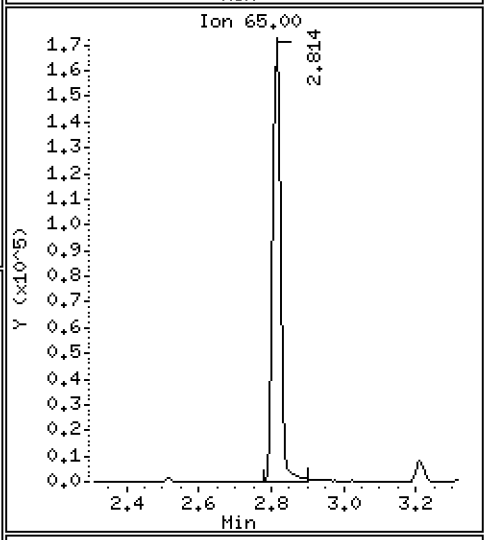
Column phase: DB-VRX Column diameter: 0.25

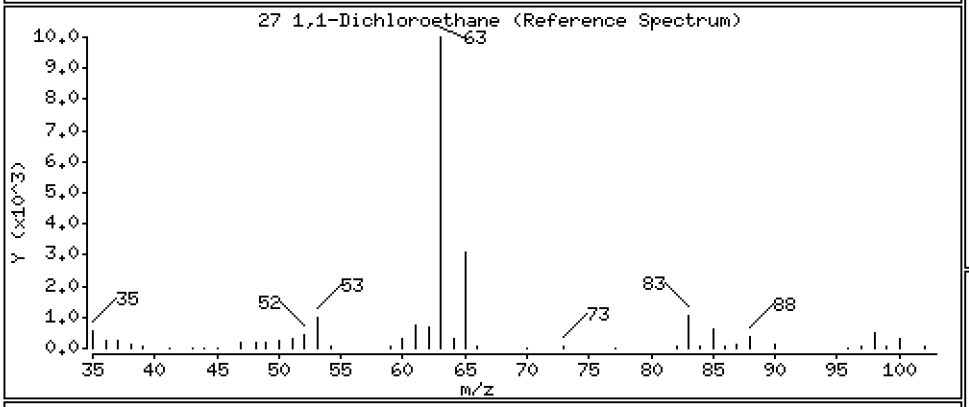
27 1,1-Dichloroethane Concentration: 46.0352 ug/L

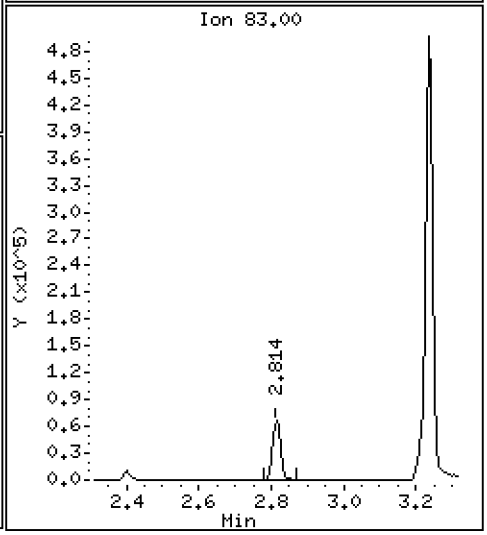


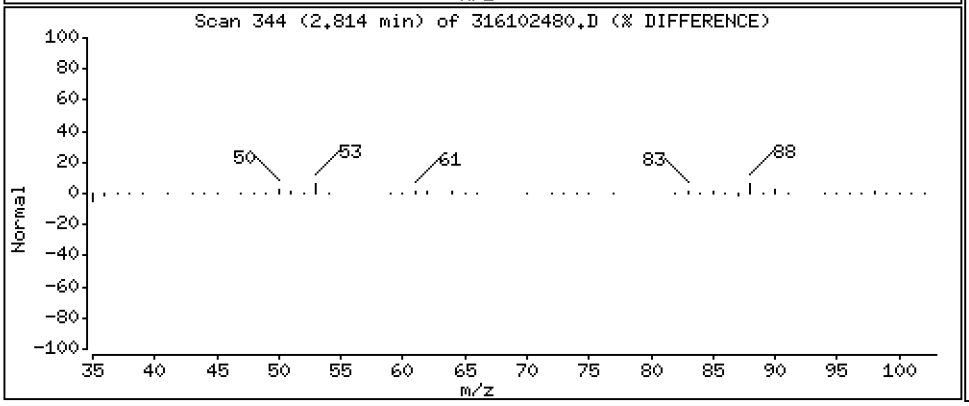












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 40

Date : 25-OCT-2016 09:17

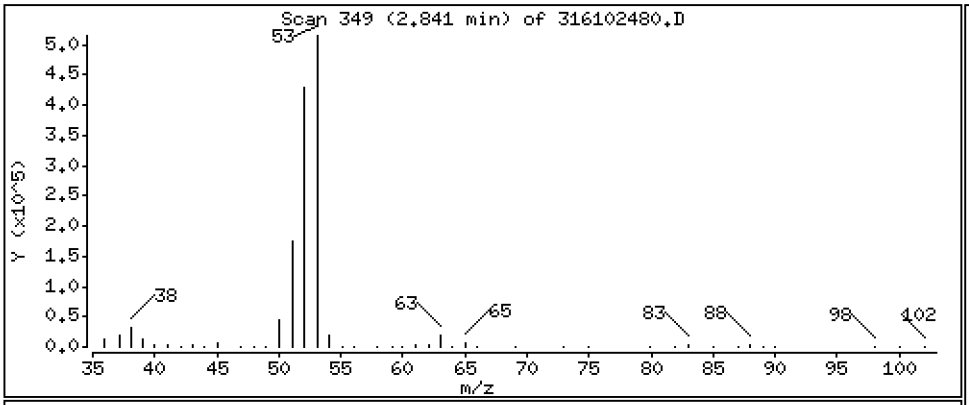
Client ID: Instrument: ms03.i

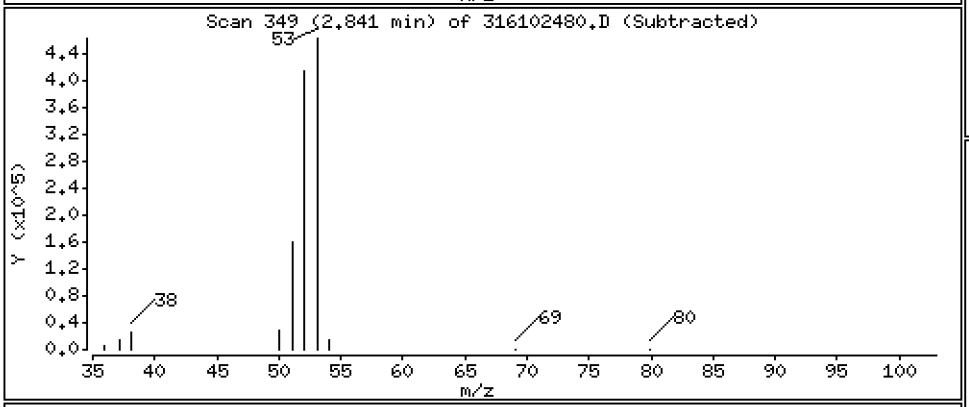
Sample Info: 1801;;1;2;4;;;

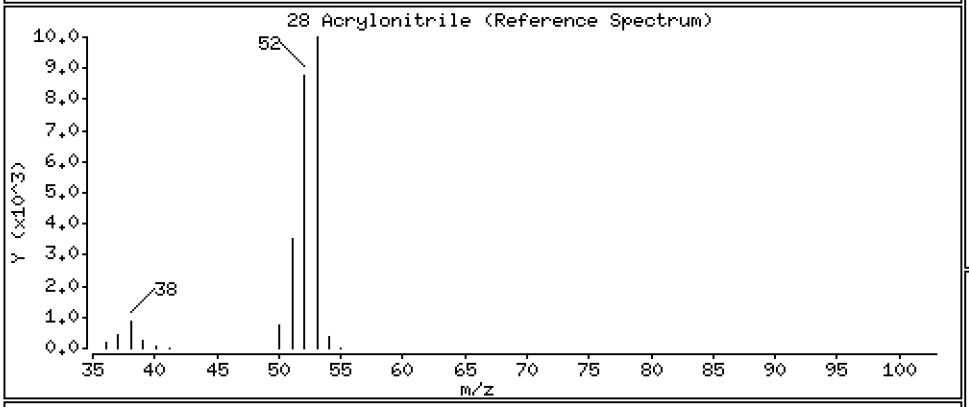
Purge Volume: 5.0 Operator: CJG

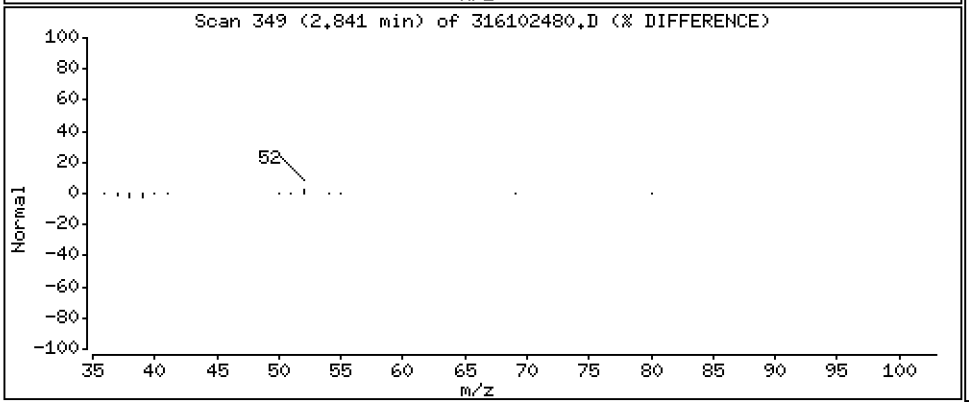
Column phase: DB-VRX Column diameter: 0.25

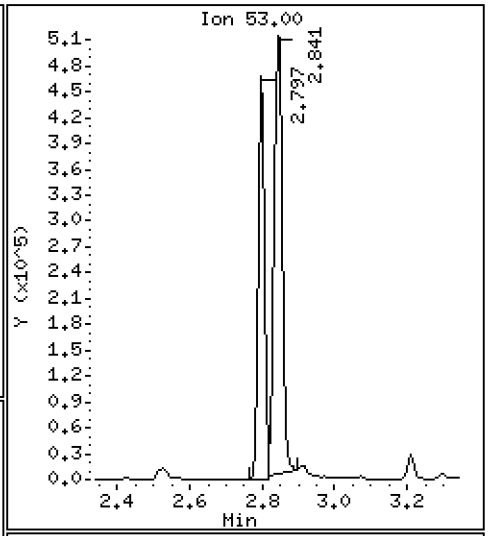
28 Acrylonitrile Concentration: 243.144 ug/L

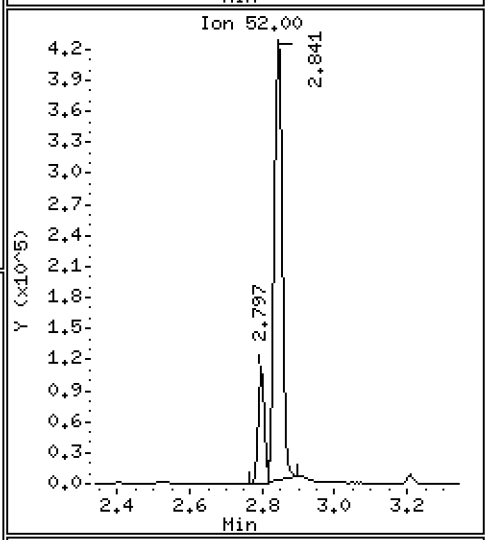


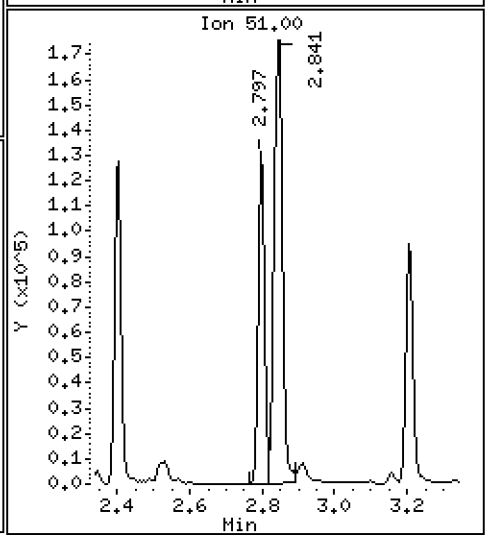












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 41

Date : 25-OCT-2016 09:17

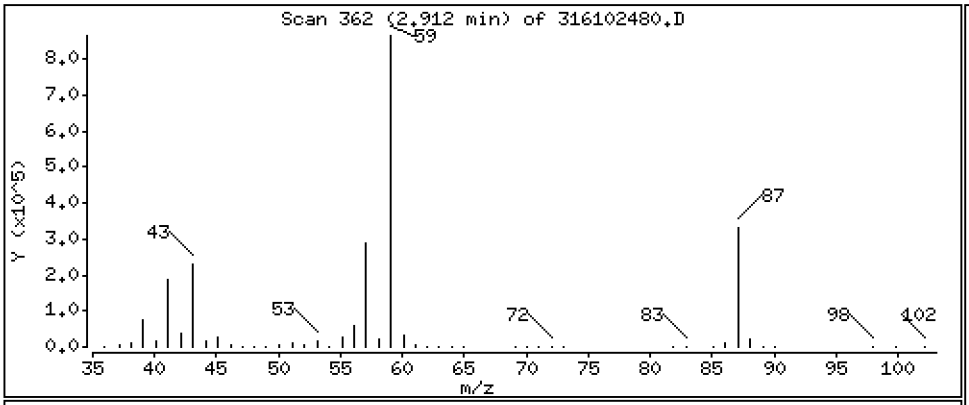
Client ID: Instrument: ms03.i

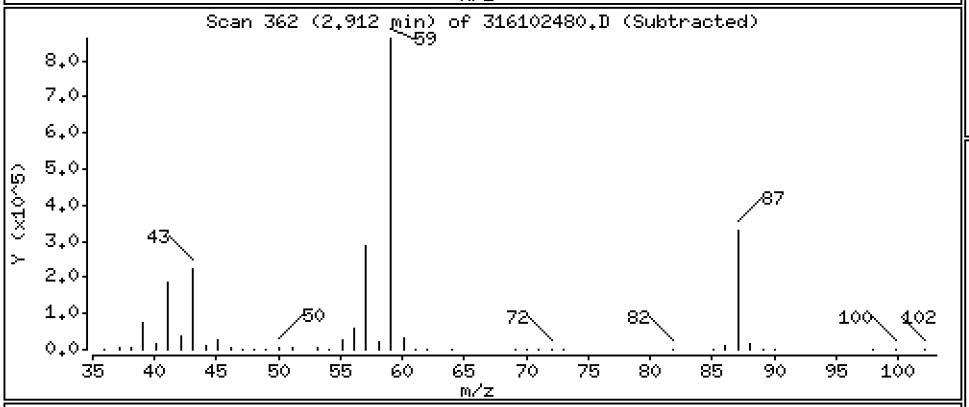
Sample Info: 1801;;1;2;4;;;

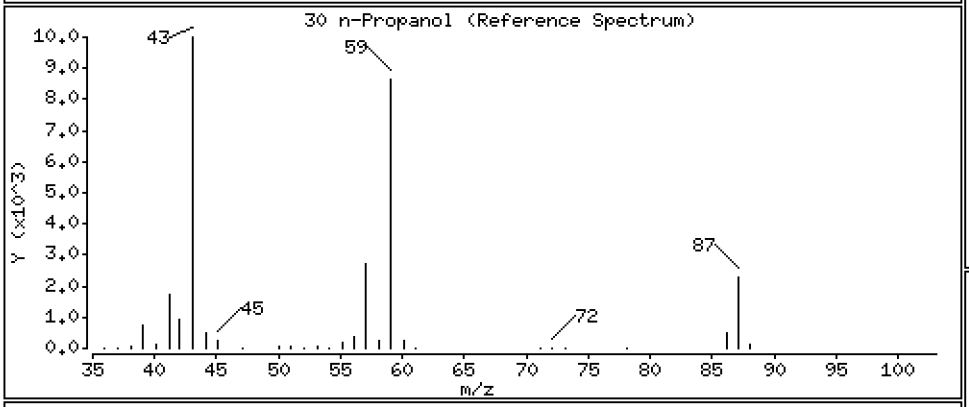
Purge Volume: 5.0 Operator: CJG

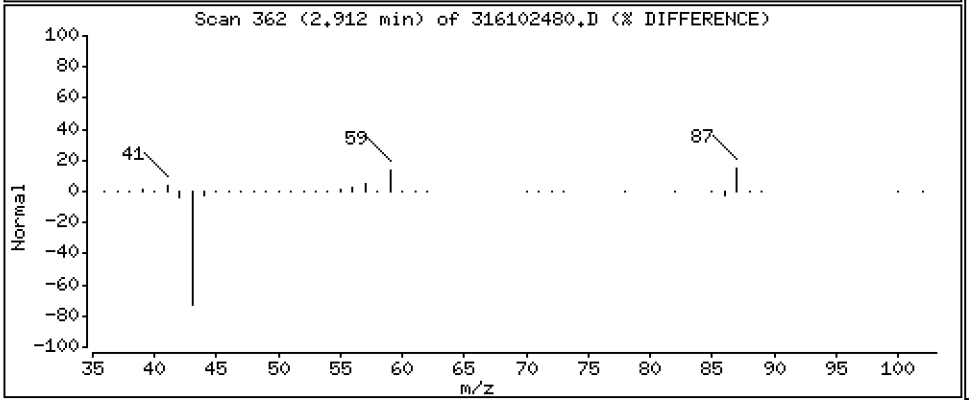
Column phase: DB-VRX Column diameter: 0.25

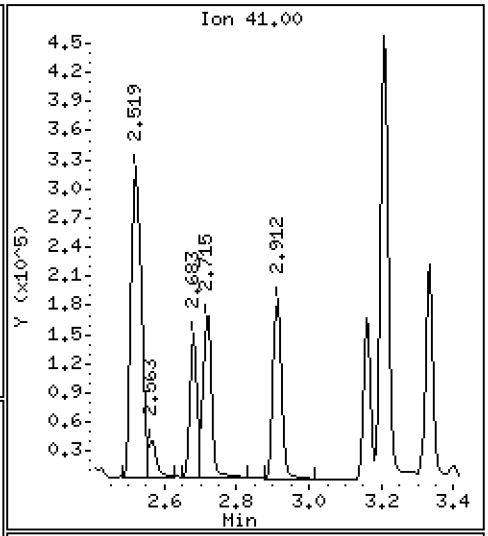
30 n-Propanol Concentration: 542.301 ug/L

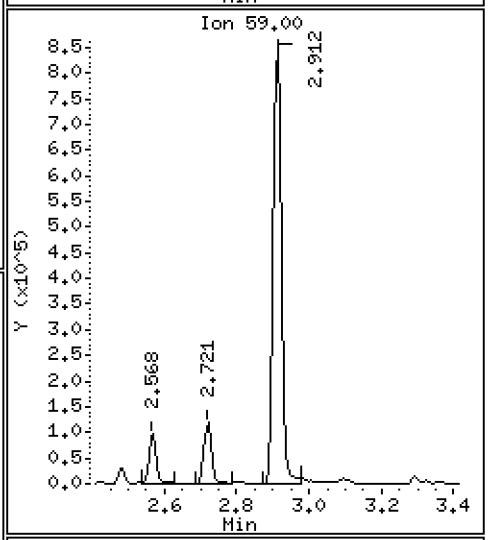


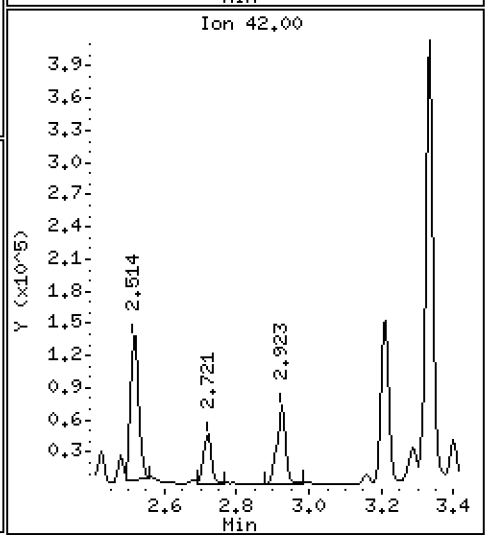












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 42

Date : 25-OCT-2016 09:17

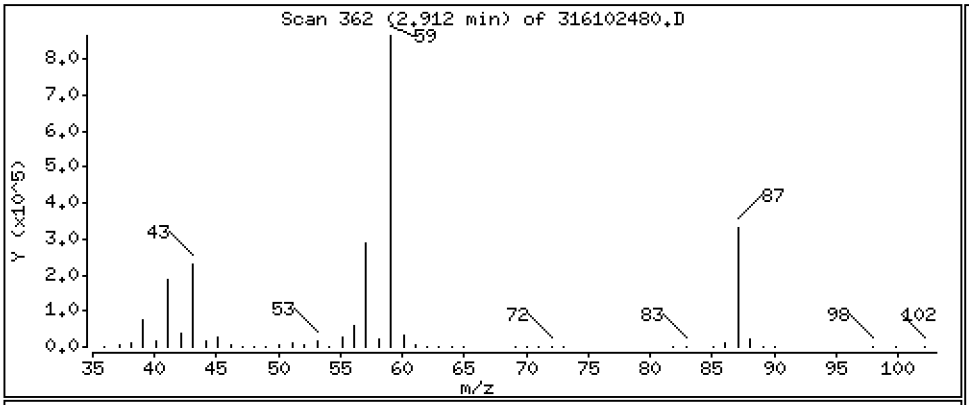
Client ID: Instrument: ms03.i

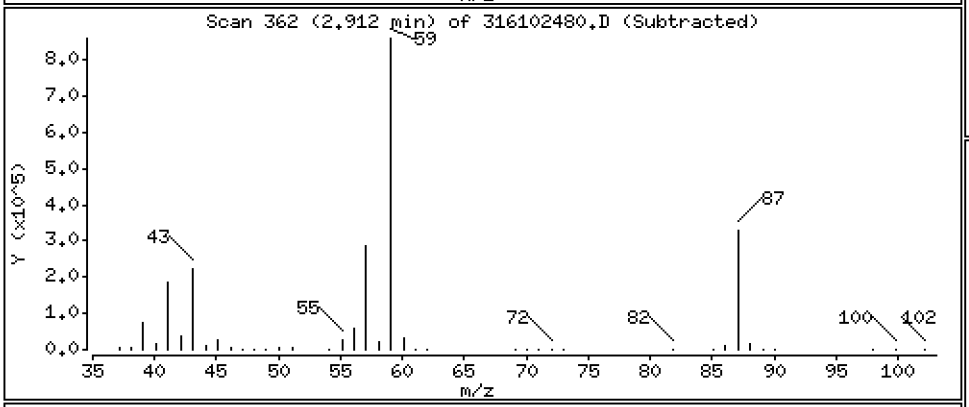
Sample Info: 1801;;1;2;4;;;

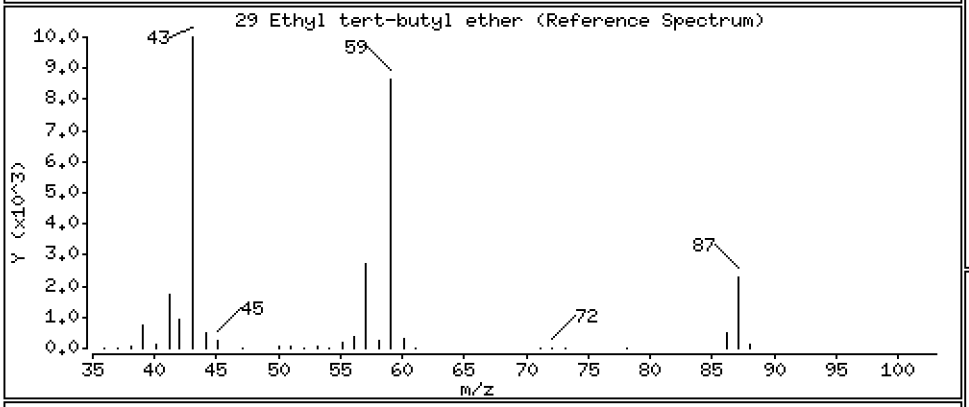
Purge Volume: 5.0 Operator: CJG

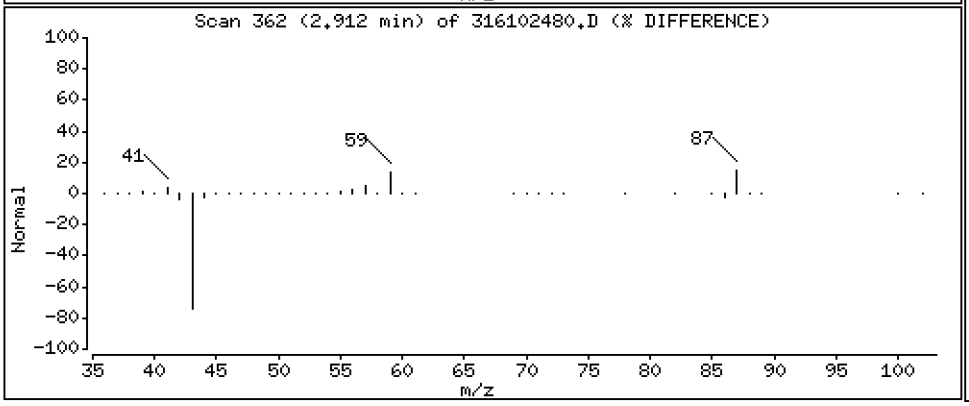
Column phase: DB-VRX Column diameter: 0.25

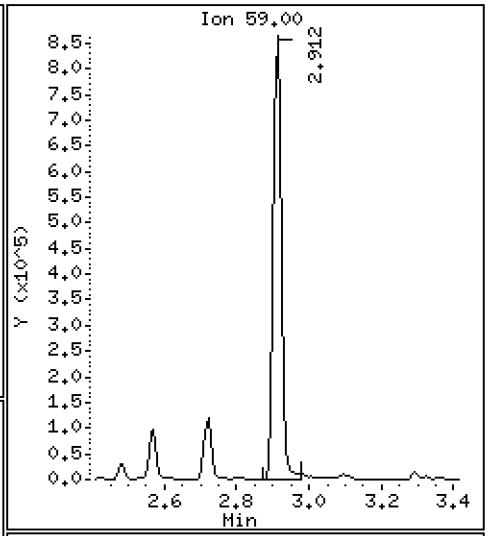
29 Ethyl tert-butyl ether Concentration: 49.3547 ug/L

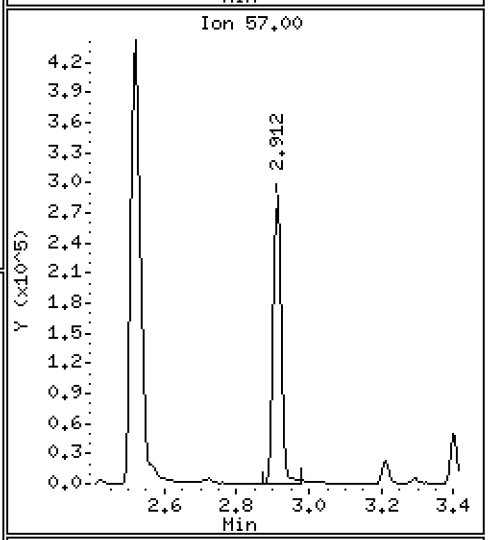


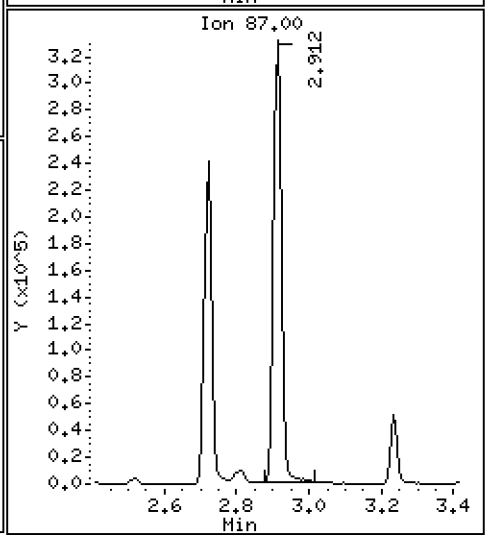












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 43

Date : 25-OCT-2016 09:17

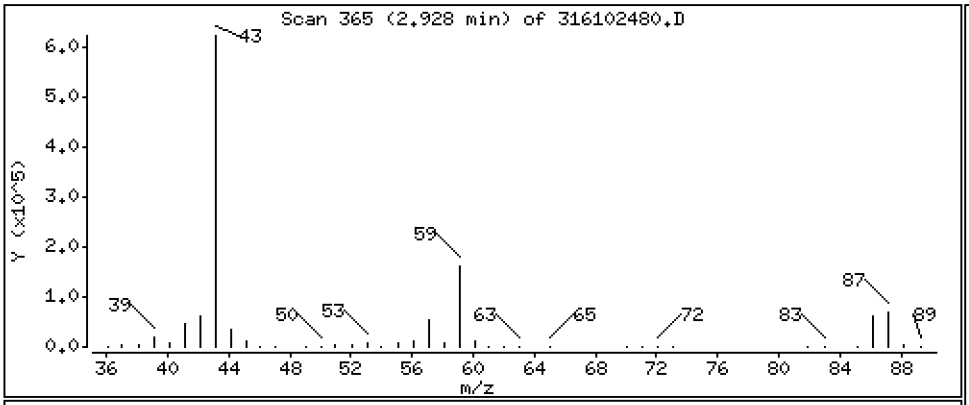
Client ID: Instrument: ms03.i

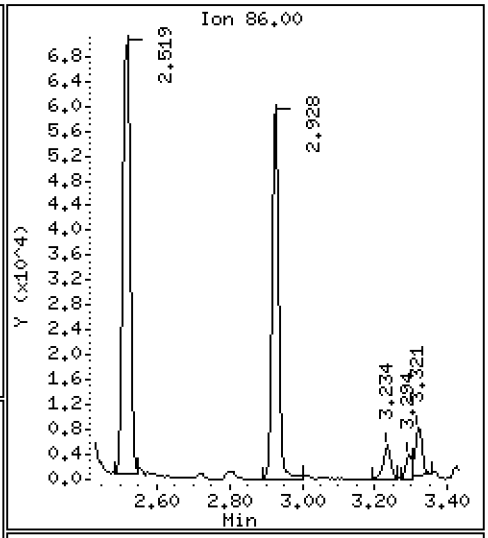
Sample Info: 1801;;1;2;4;;;

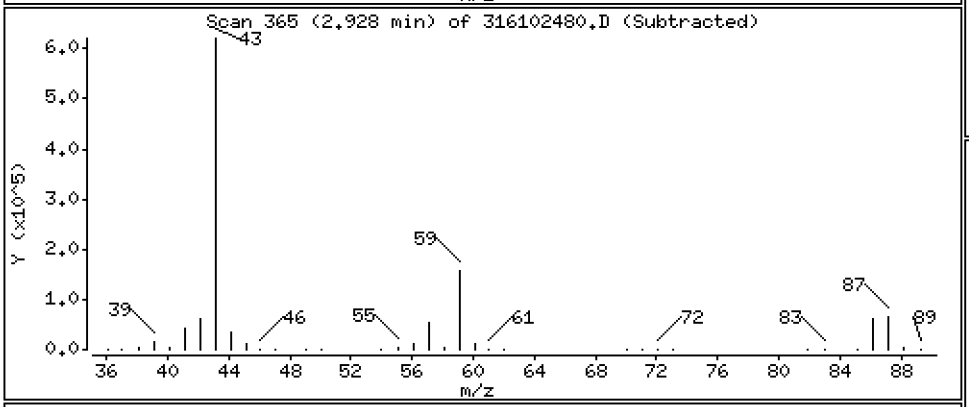
Purge Volume: 5.0 Operator: CJG

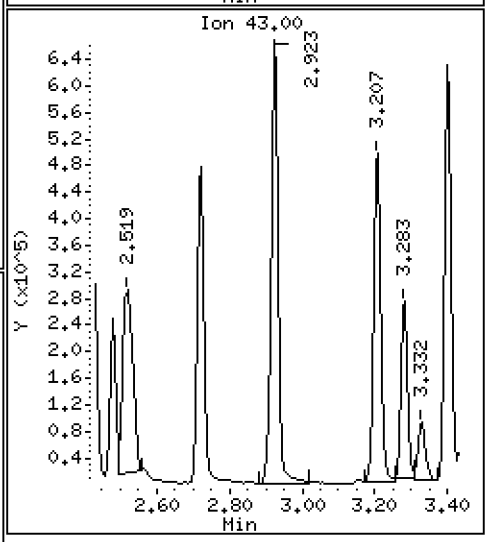
Column phase: DB-VRX Column diameter: 0.25

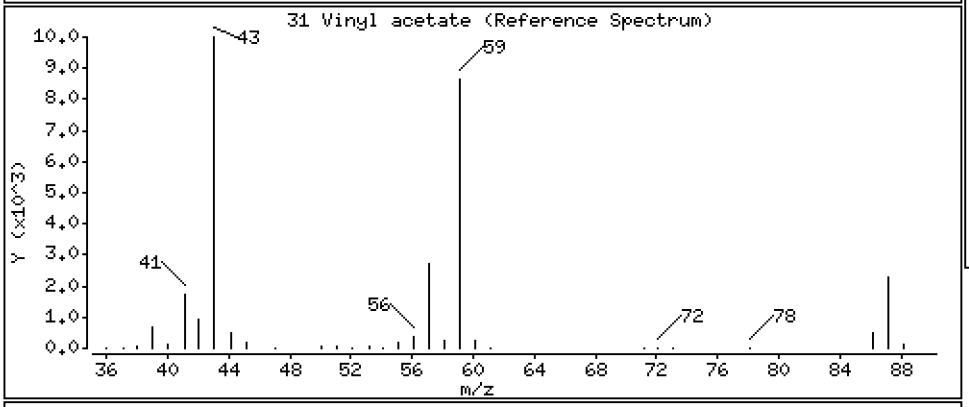
31 Vinyl acetate Concentration: 44.9020 ug/L

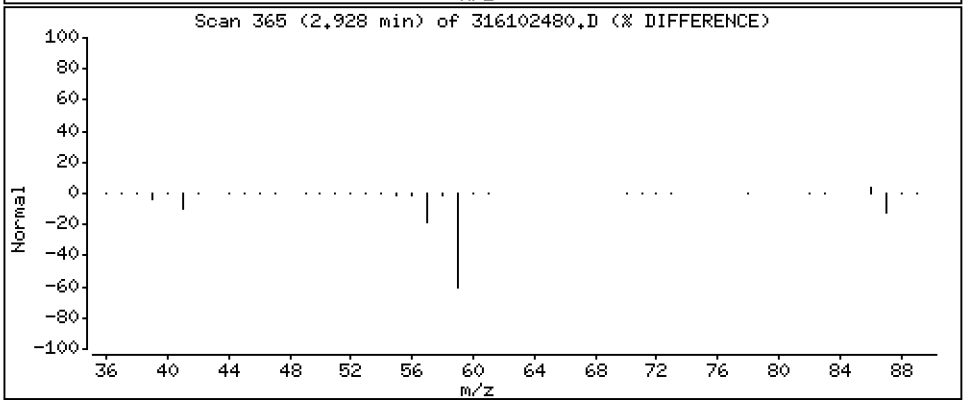












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 44

Date : 25-OCT-2016 09:17

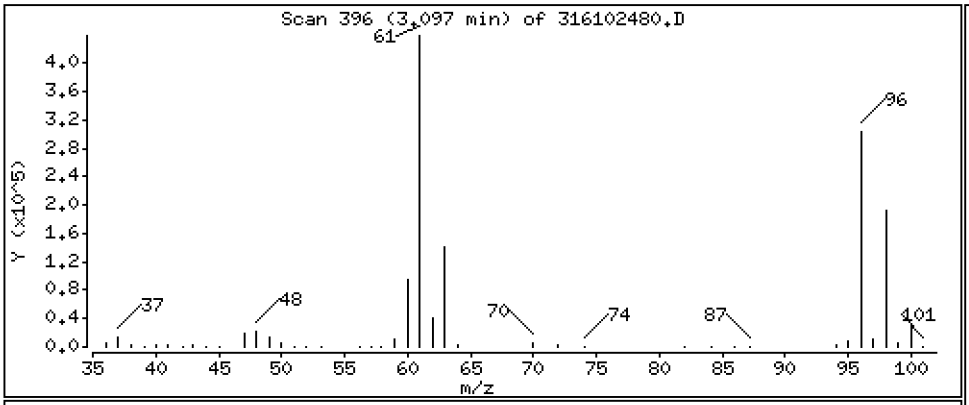
Client ID: Instrument: ms03.i

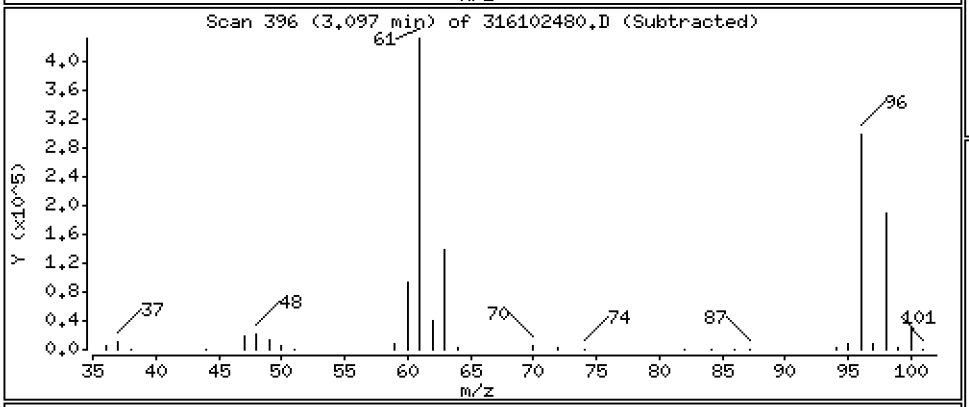
Sample Info: 1801;;1;2;4;;;

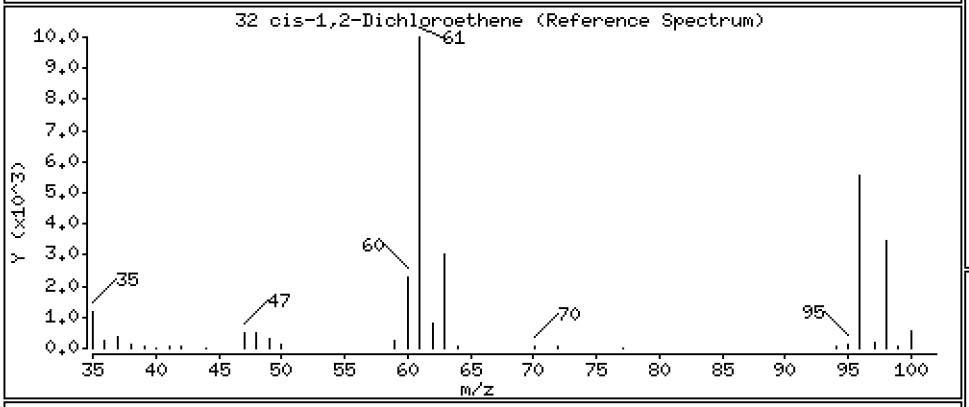
Purge Volume: 5.0 Operator: CJG

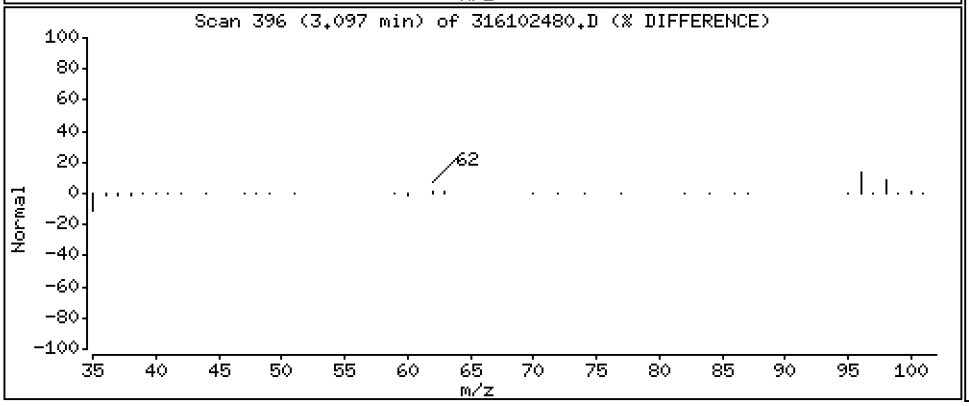
Column phase: DB-VRX Column diameter: 0.25

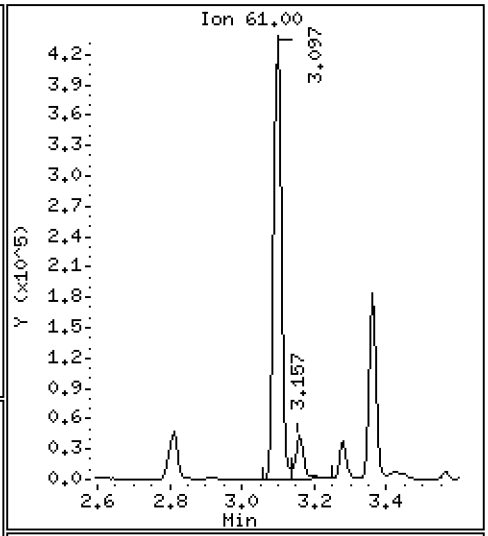
32 cis-1,2-Dichloroethene Concentration: 45.7703 ug/L

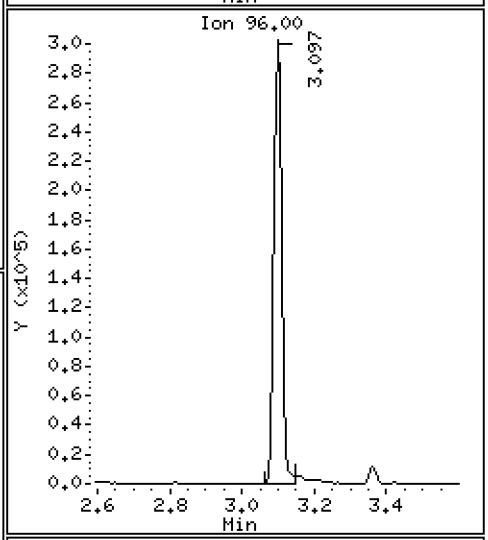


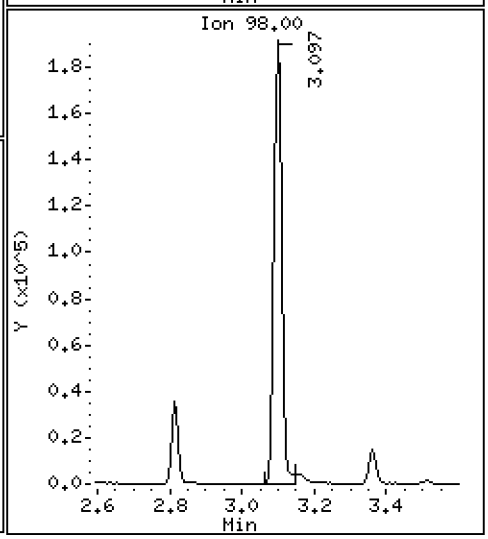












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 45

Date : 25-OCT-2016 09:17

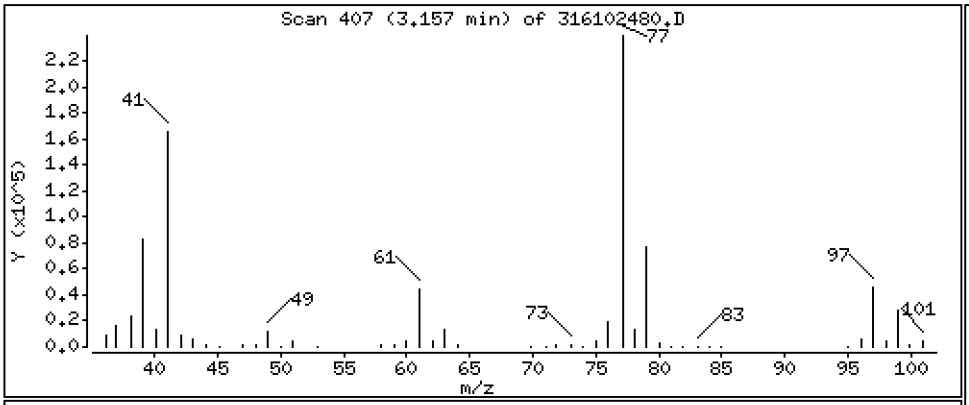
Client ID: Instrument: ms03.i

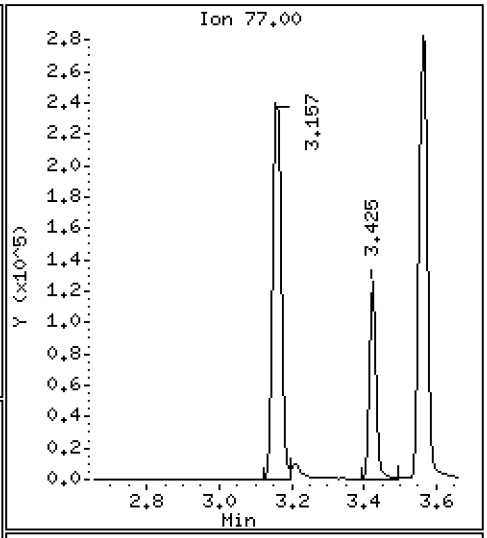
Sample Info: 1801;;1;2;4;;;

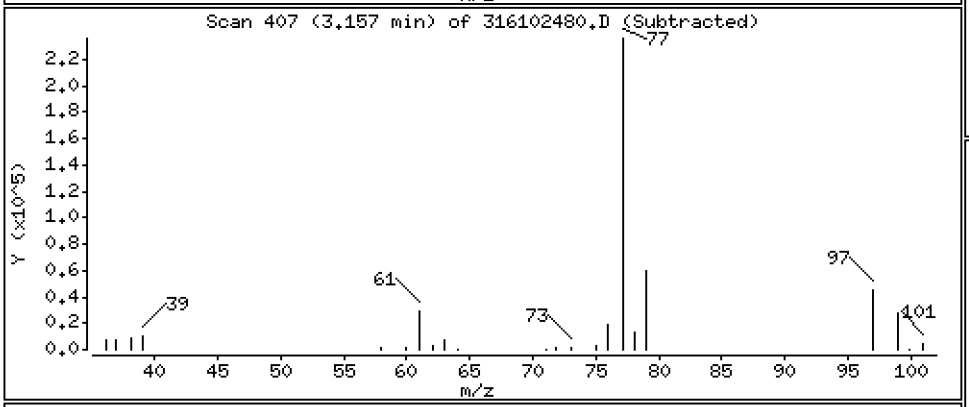
Purge Volume: 5.0 Operator: CJG

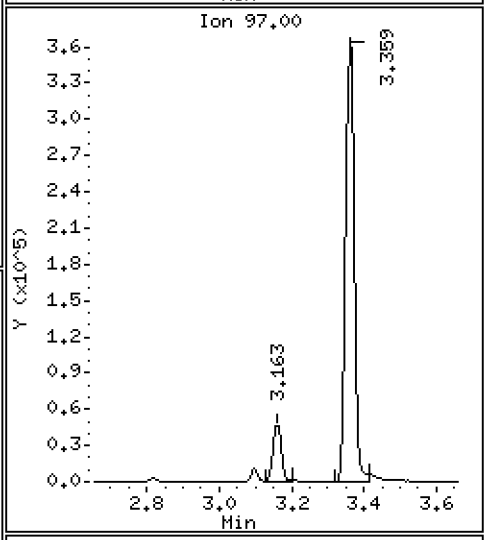
Column phase: DB-VRX Column diameter: 0.25

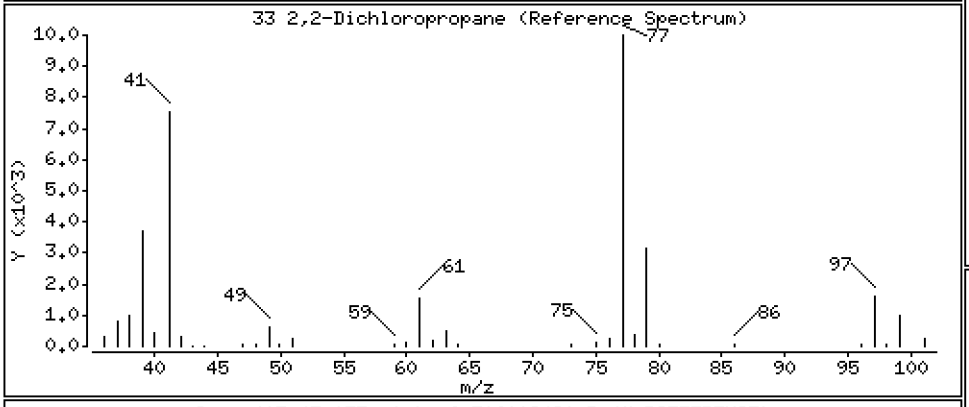
33 2,2-Dichloropropane Concentration: 35.1598 ug/L

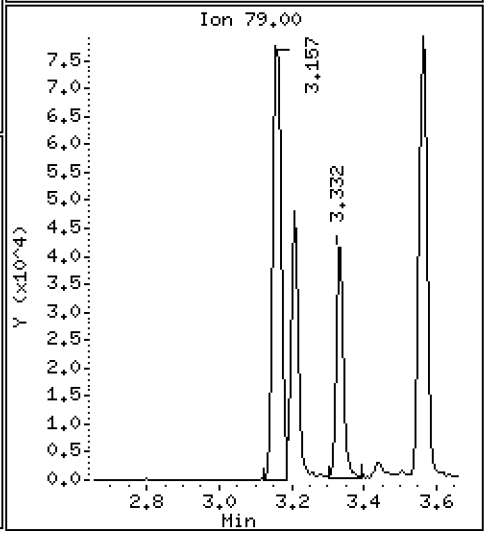


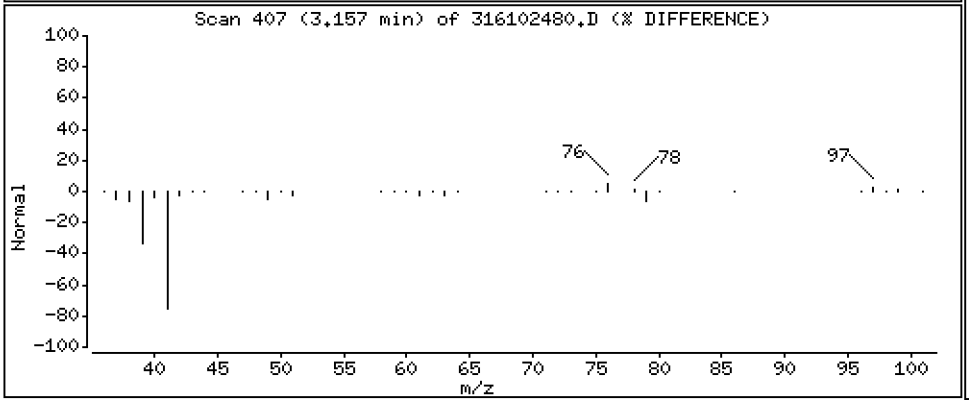












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 46

Date : 25-OCT-2016 09:17

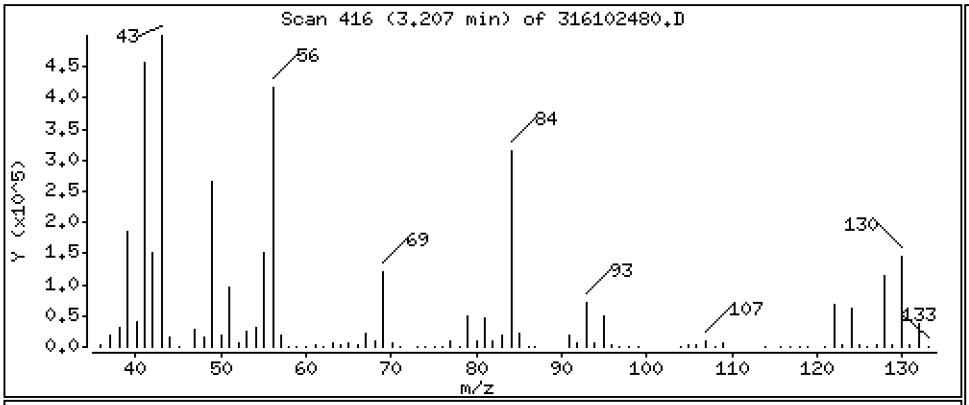
Client ID: Instrument: ms03.i

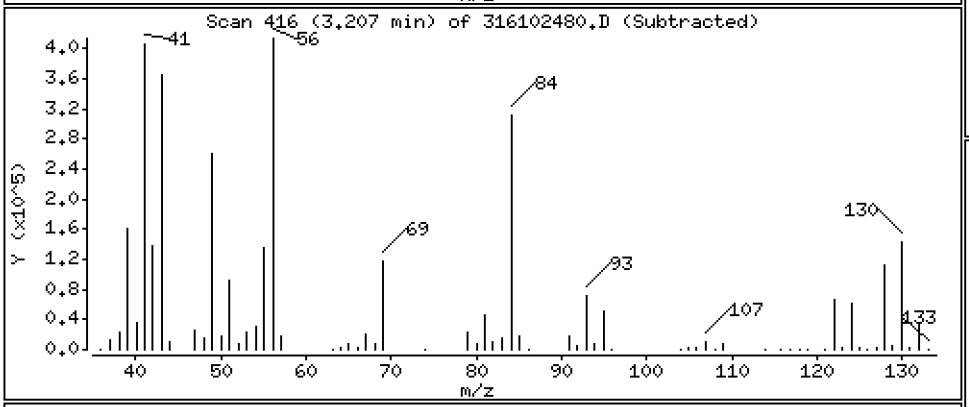
Sample Info: 1801;;1;2;4;;;

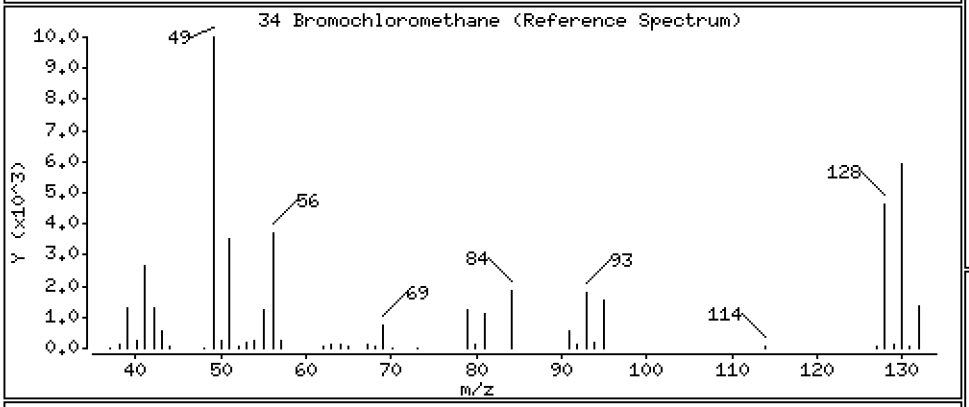
Purge Volume: 5.0 Operator: CJG

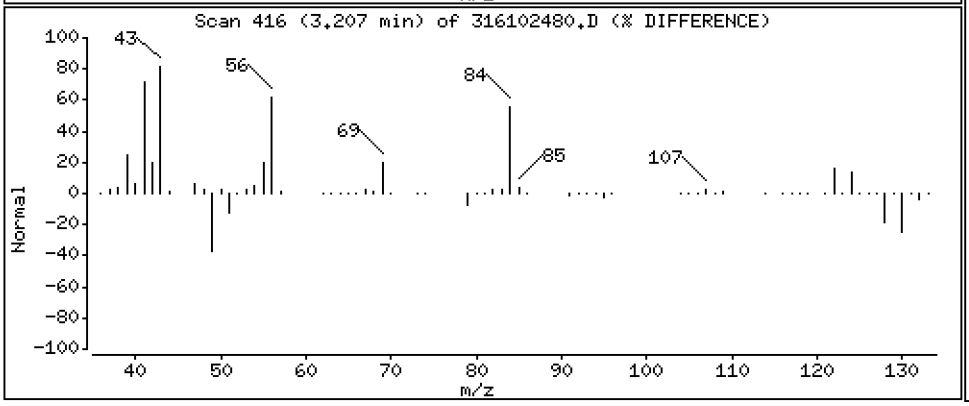
Column phase: DB-VRX Column diameter: 0.25

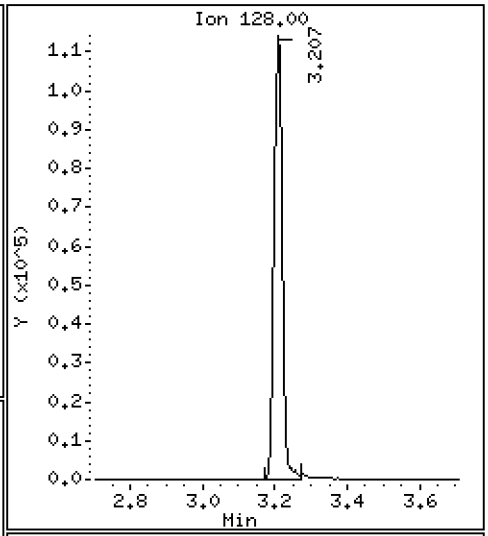
34 Bromochloromethane Concentration: 46.0563 ug/L

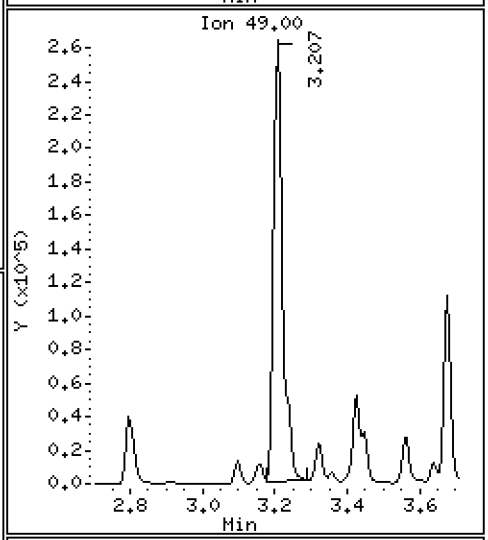


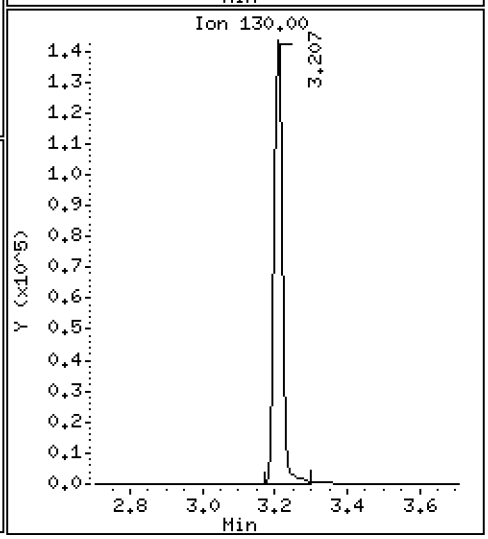












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 47

Date : 25-OCT-2016 09:17

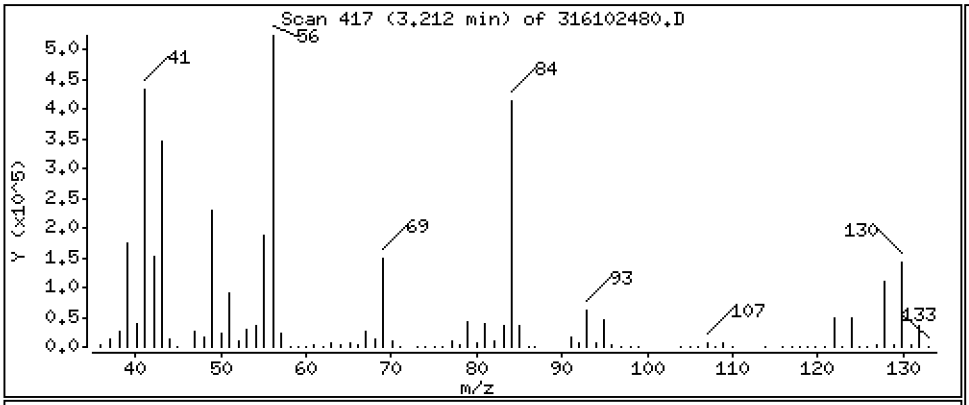
Client ID: Instrument: ms03.i

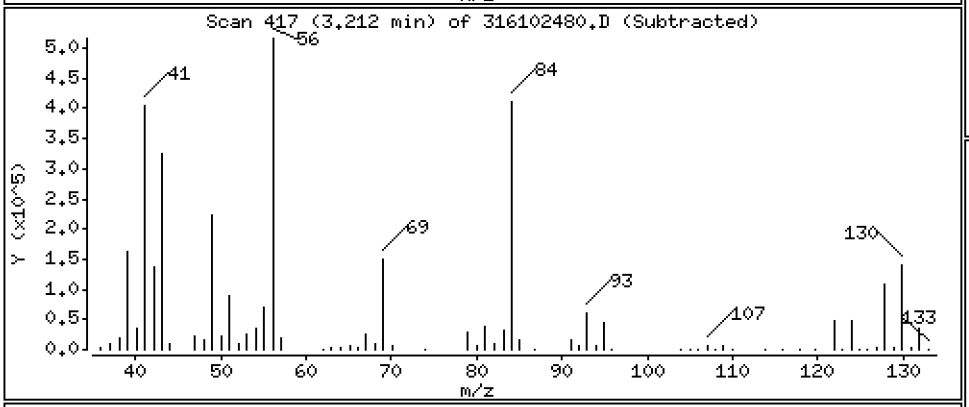
Sample Info: 1801;;1;2;4;;;

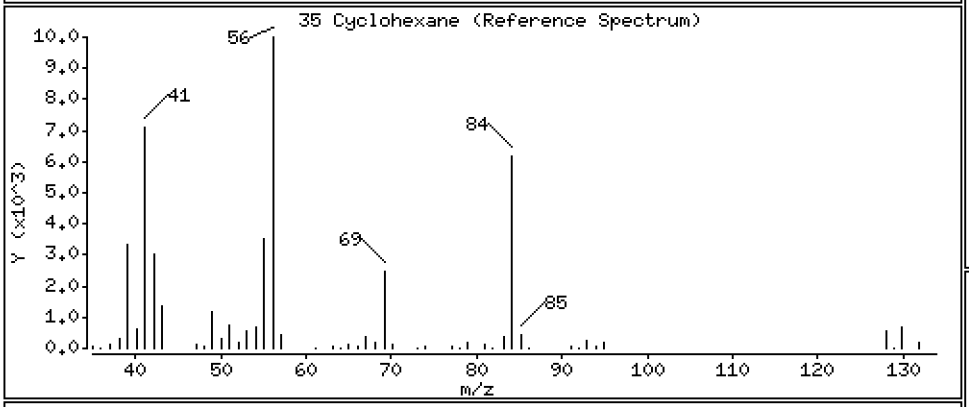
Purge Volume: 5.0 Operator: CJG

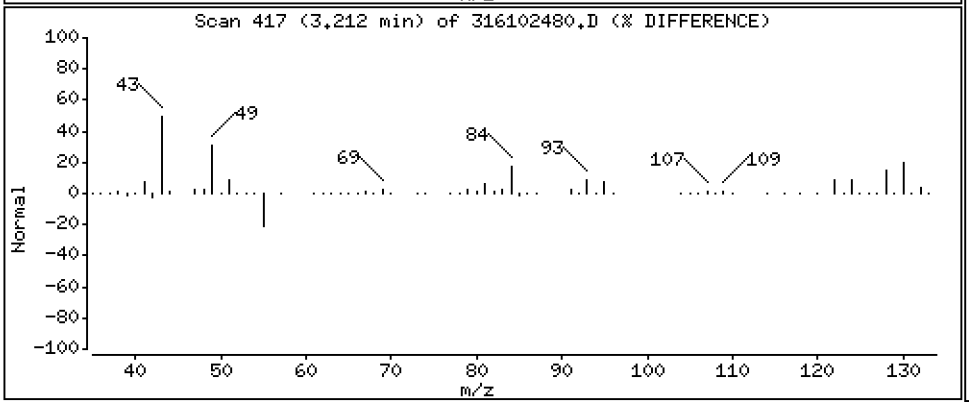
Column phase: DB-VRX Column diameter: 0.25

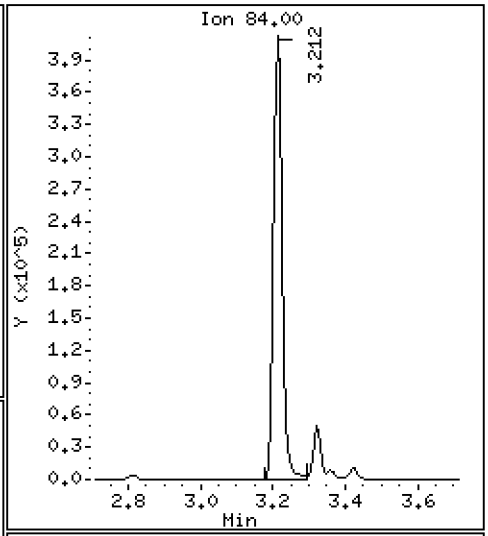
35 Cyclohexane Concentration: 45.5602 ug/L

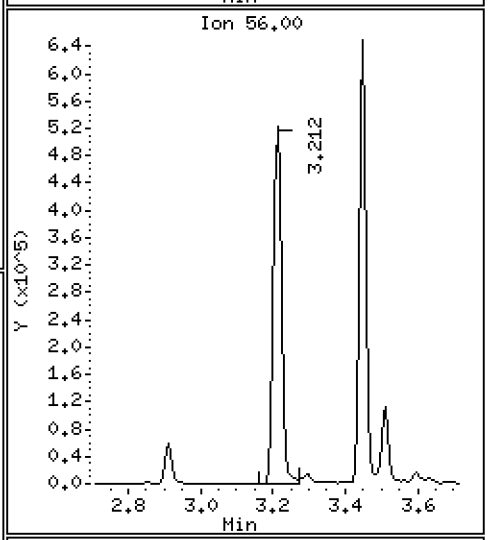


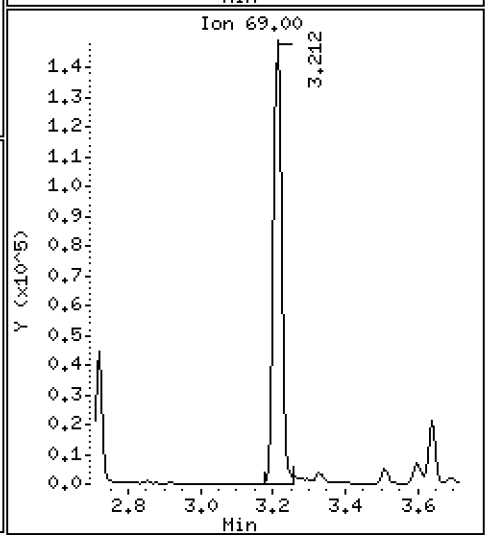












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 48

Date : 25-OCT-2016 09:17

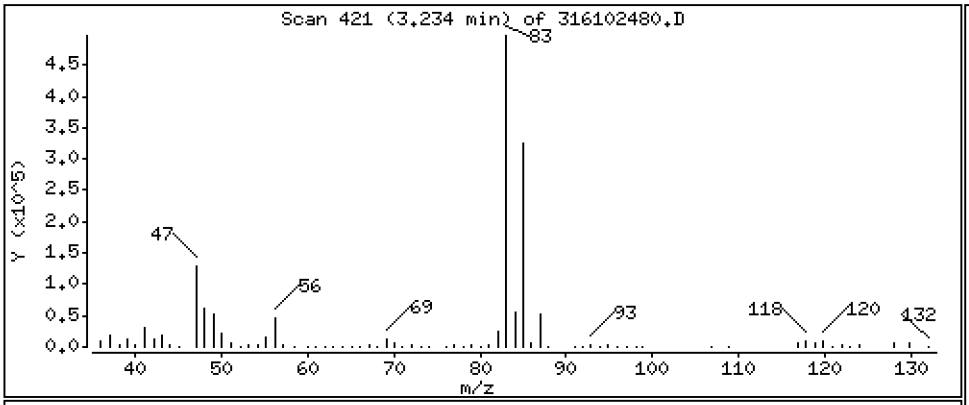
Client ID: Instrument: ms03.i

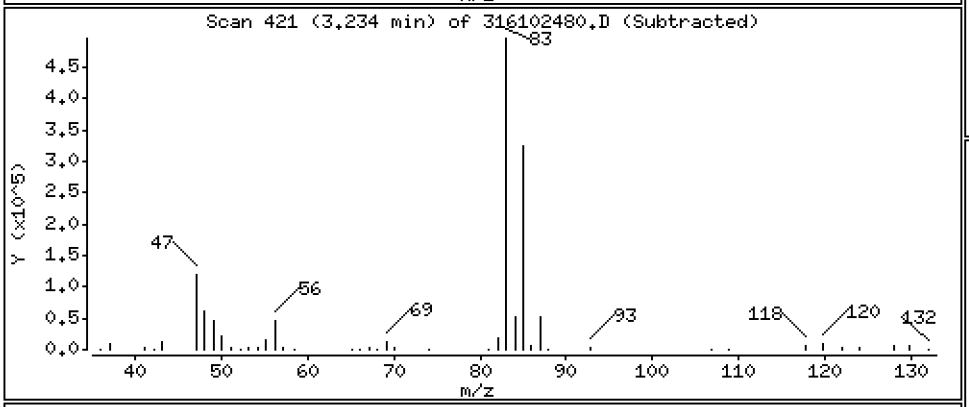
Sample Info: 1801;;1;2;4;;;

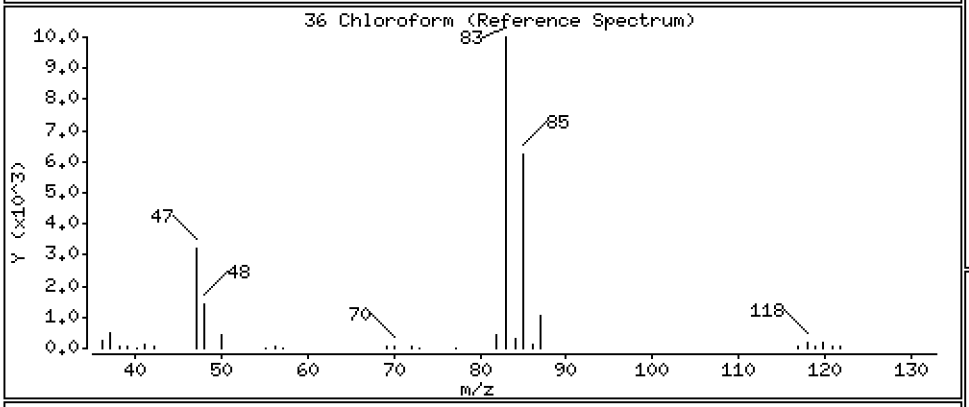
Purge Volume: 5.0 Operator: CJG

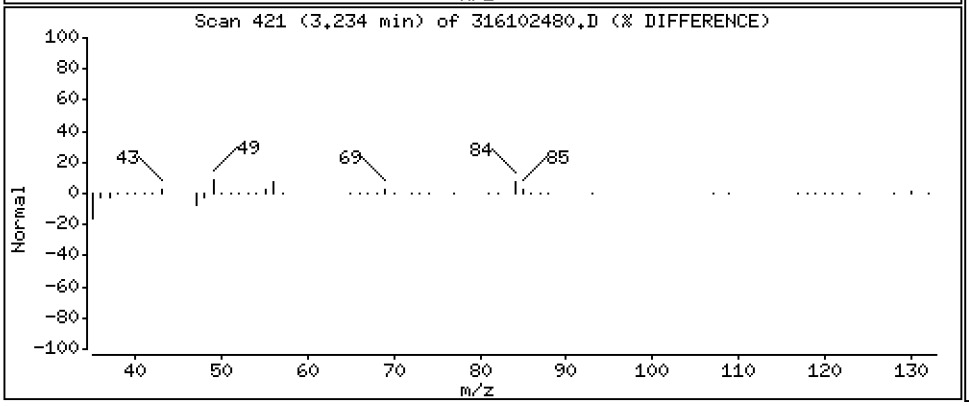
Column phase: DB-VRX Column diameter: 0.25

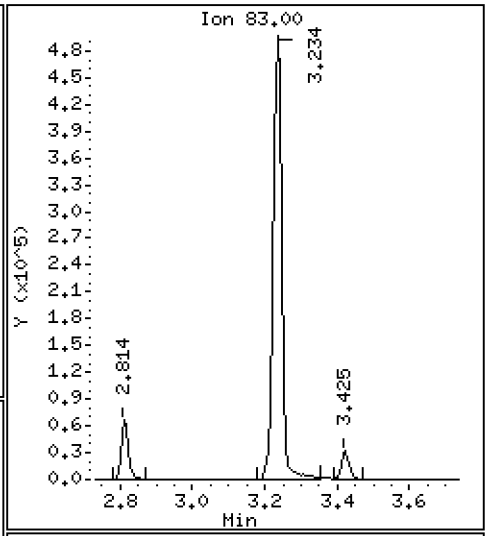
36 Chloroform Concentration: 49.1857 ug/L

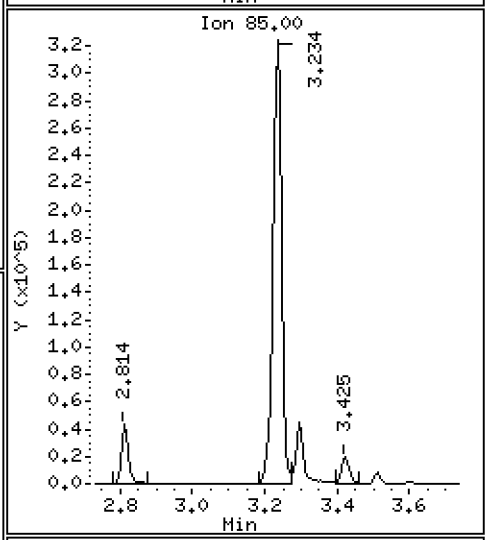


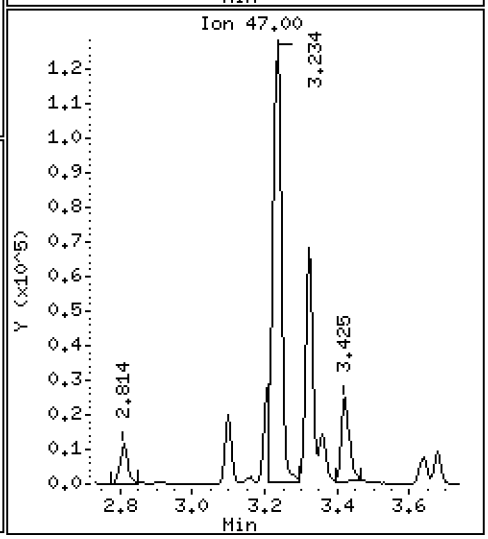












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 49

Date : 25-OCT-2016 09:17

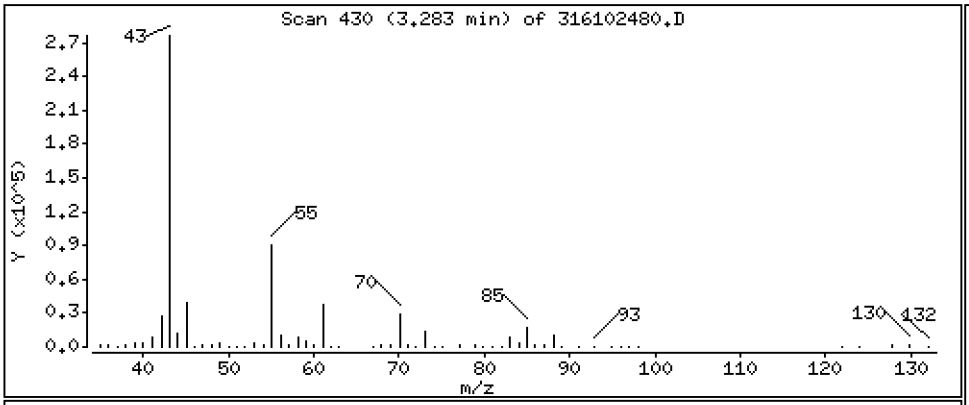
Client ID: Instrument: ms03.i

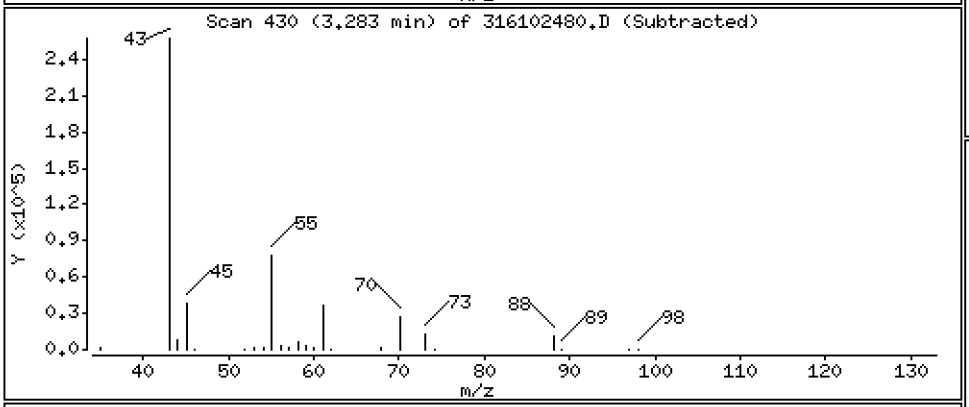
Sample Info: 1801;;1;2;4;;;

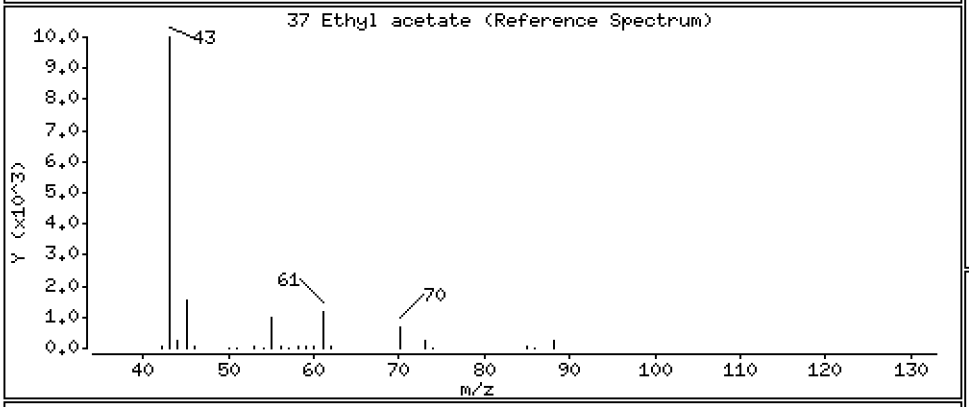
Purge Volume: 5.0 Operator: CJG

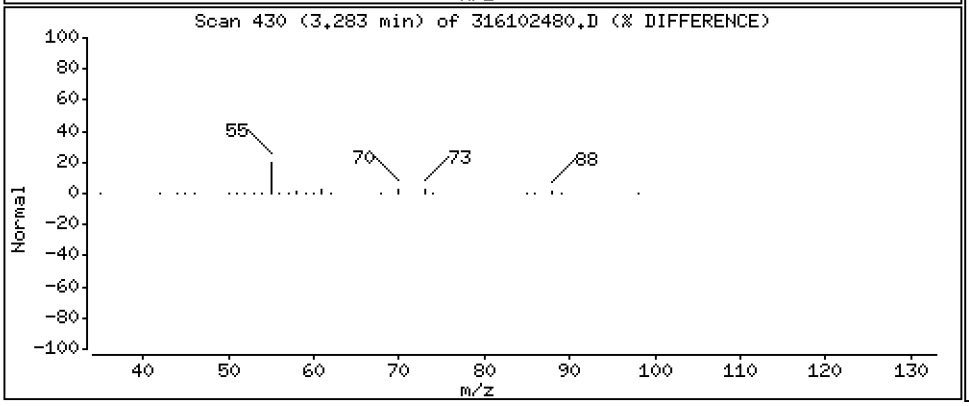
Column phase: DB-VRX Column diameter: 0.25

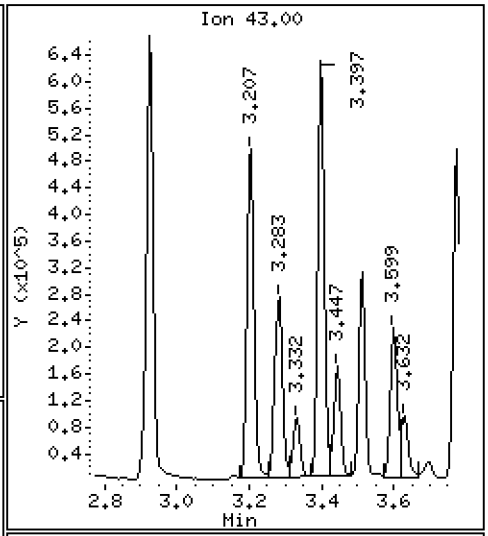
37 Ethyl acetate Concentration: 51.5948 ug/L

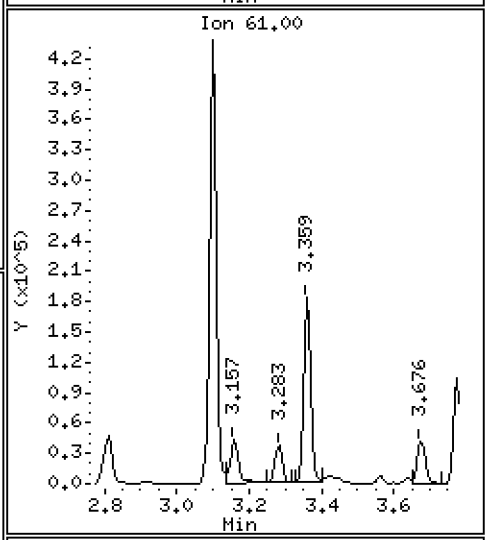


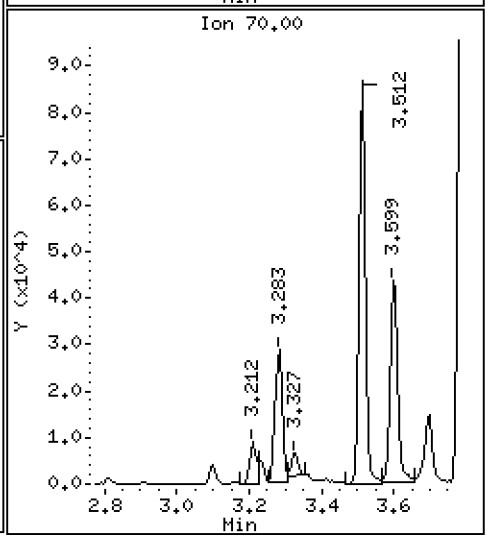












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 50

Date : 25-OCT-2016 09:17

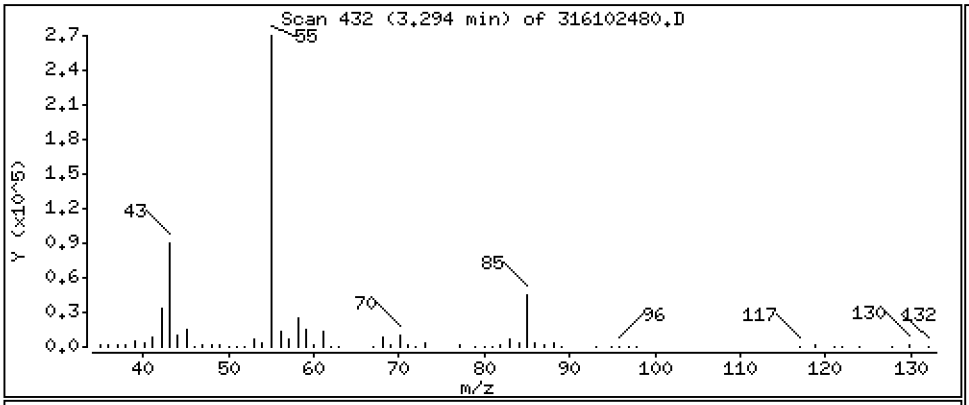
Client ID: Instrument: ms03.i

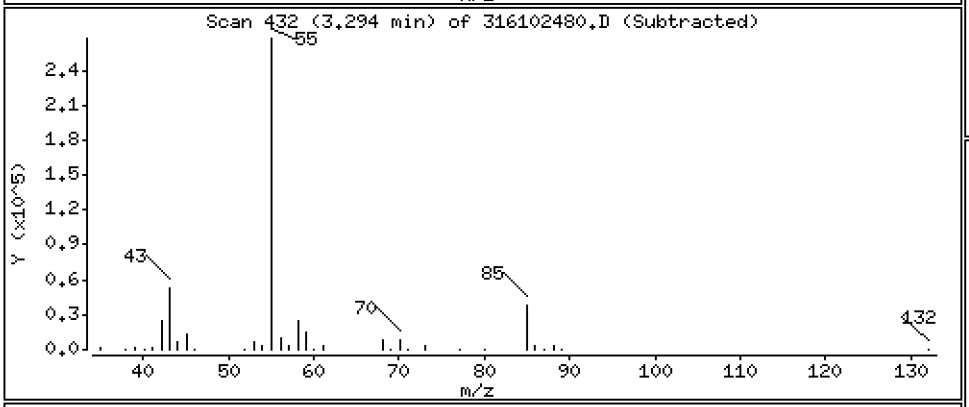
Sample Info: 1801;;1;2;4;;;

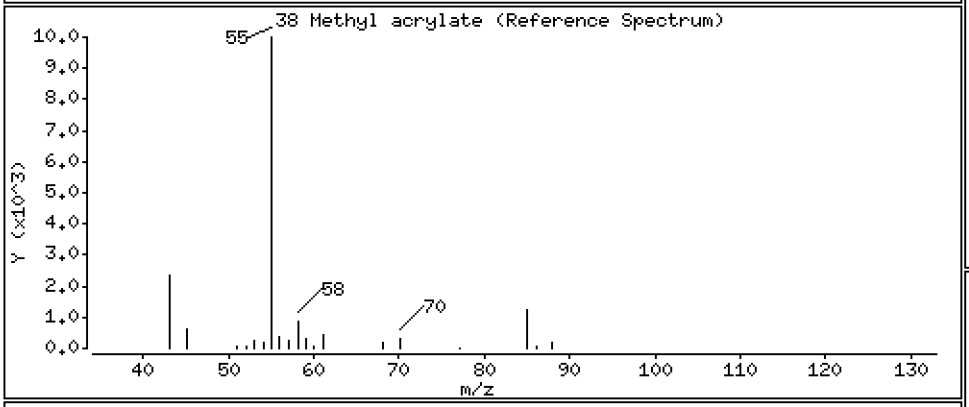
Purge Volume: 5.0 Operator: CJG

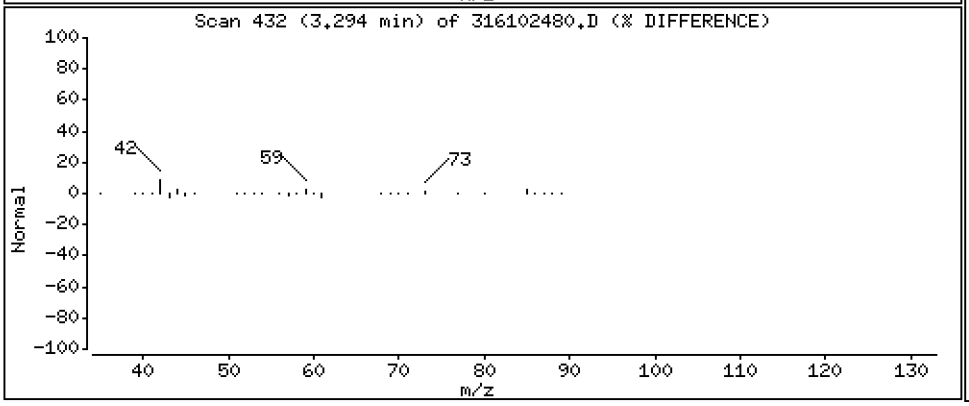
Column phase: DB-VRX Column diameter: 0.25

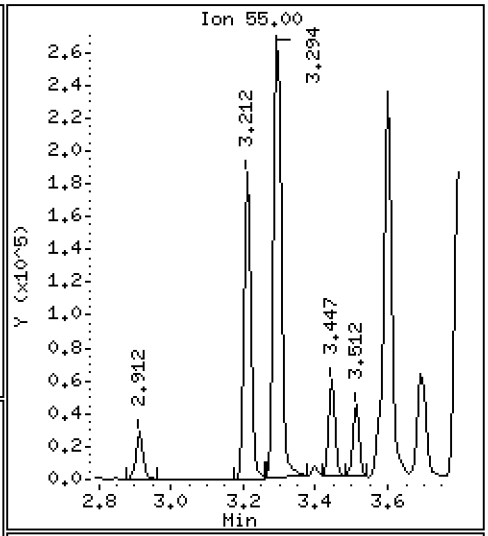
38 Methyl acrylate Concentration: 50.8347 ug/L

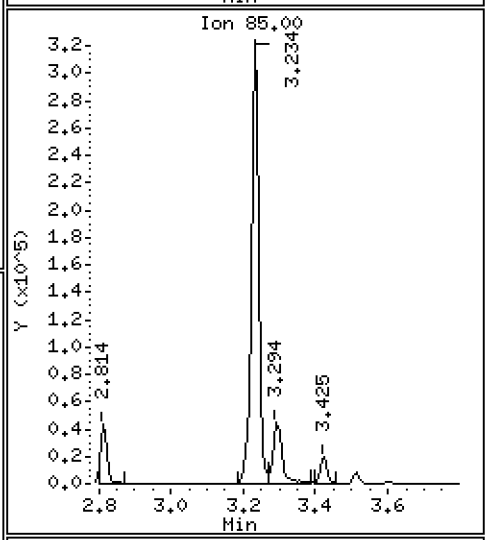


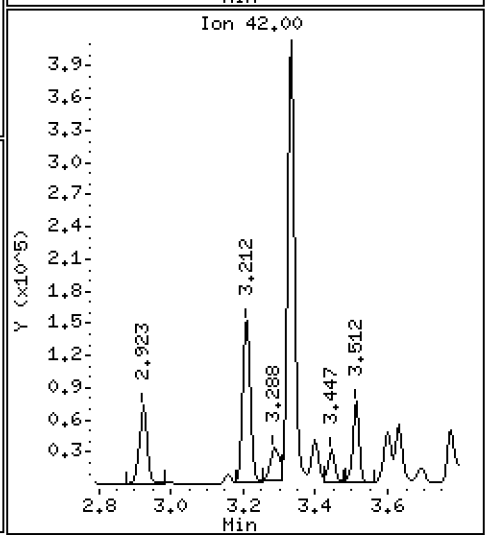












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 51

Date : 25-OCT-2016 09:17

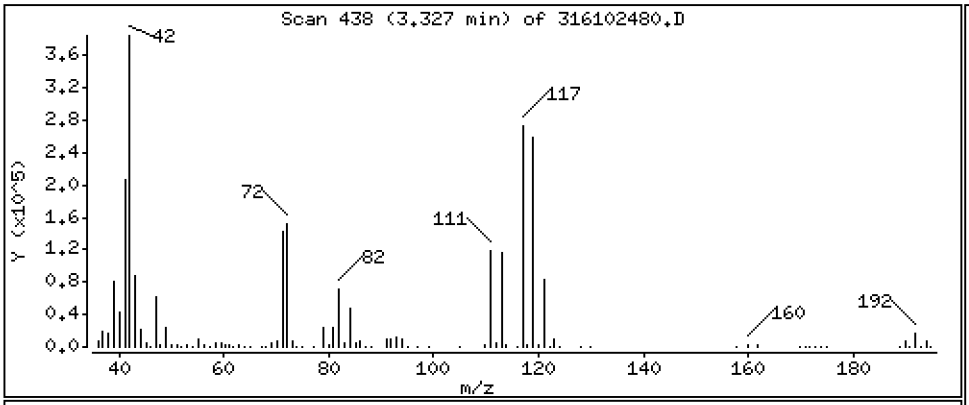
Client ID: Instrument: ms03.i

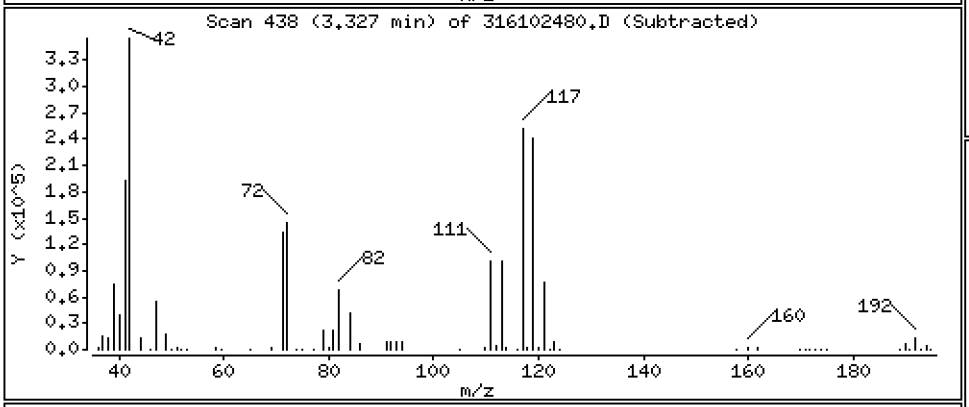
Sample Info: 1801;;1;2;4;;;

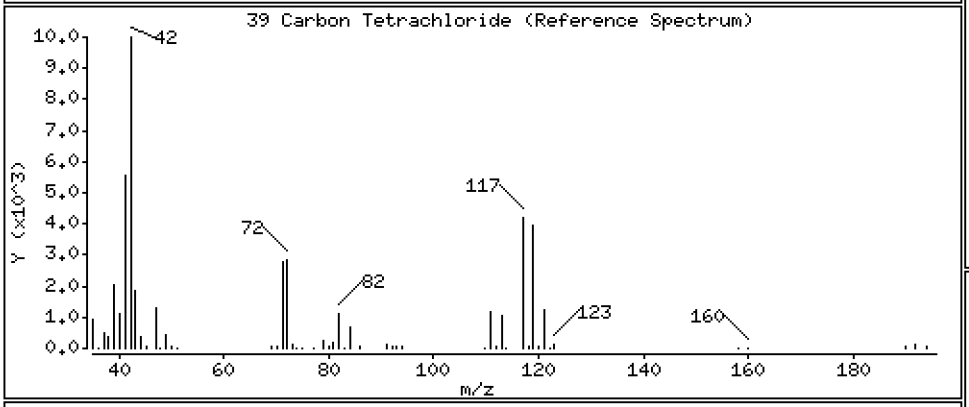
Purge Volume: 5.0 Operator: CJG

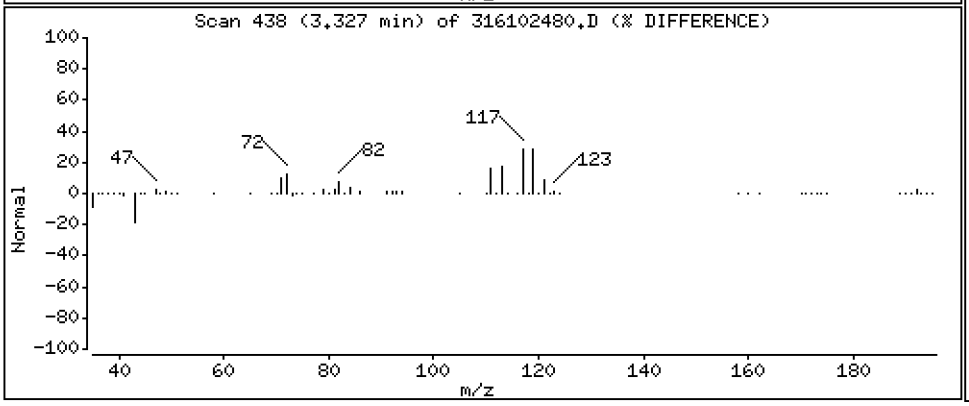
Column phase: DB-VRX Column diameter: 0.25

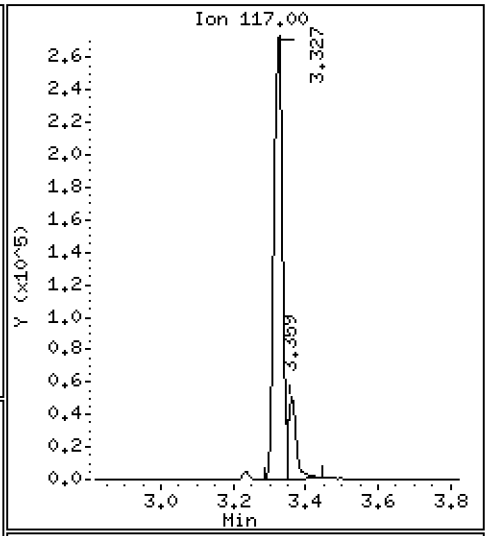
39 Carbon Tetrachloride Concentration: 46.6262 ug/L

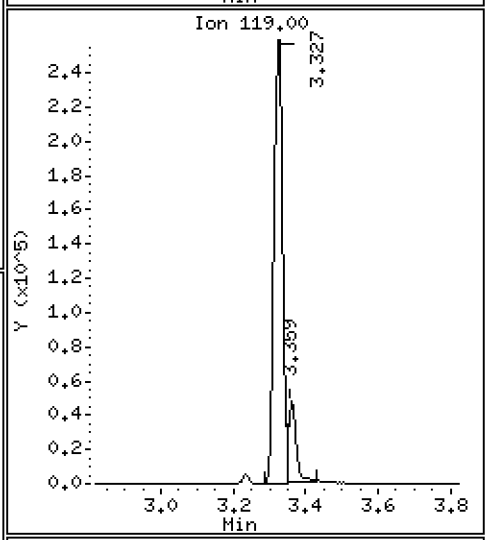


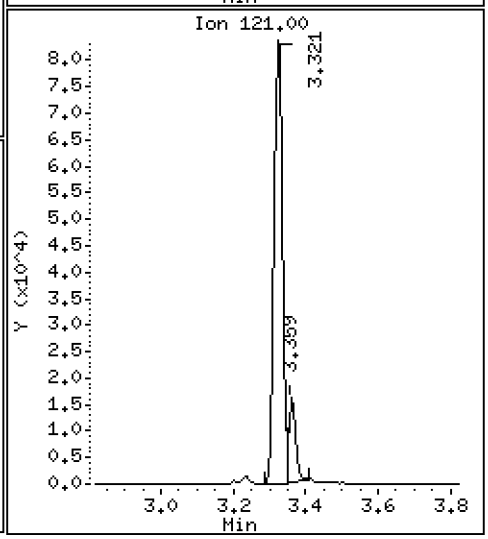












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 52

Date : 25-OCT-2016 09:17

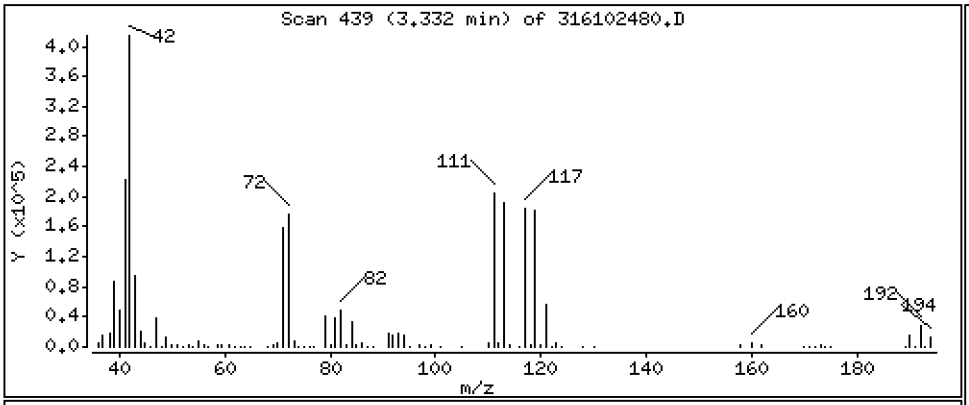
Client ID: Instrument: ms03.i

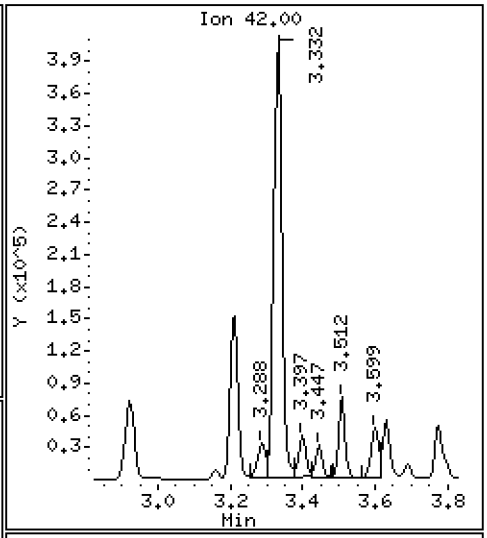
Sample Info: 1801;;1;2;4;;;

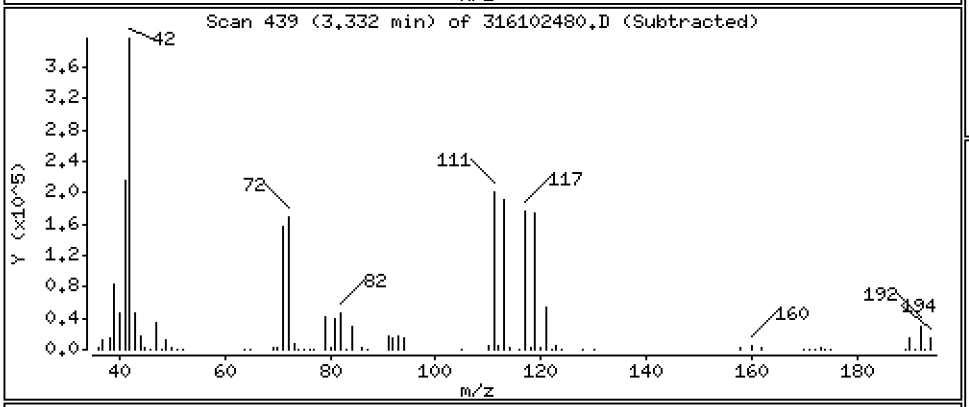
Purge Volume: 5.0 Operator: CJG

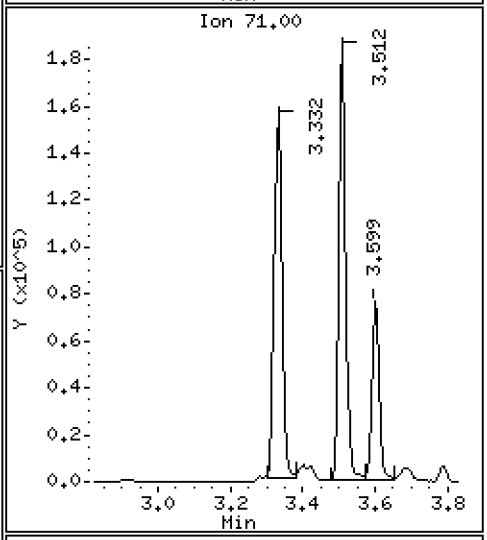
Column phase: DB-VRX Column diameter: 0.25

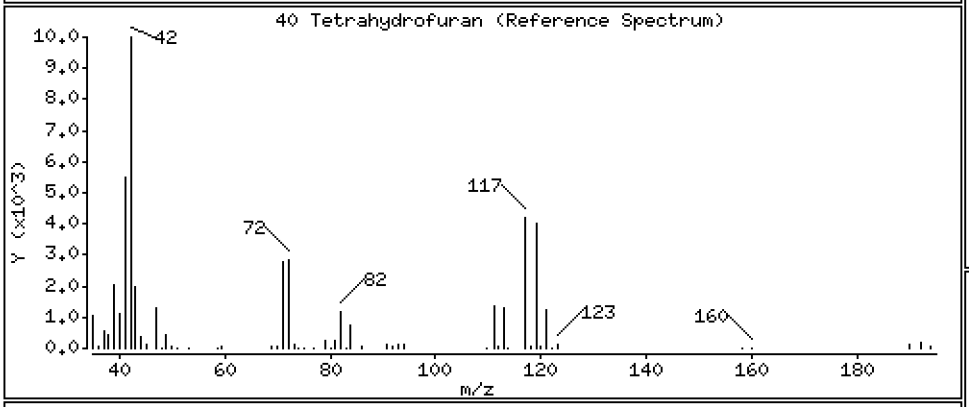
40 Tetrahydrofuran Concentration: 258.350 ug/L

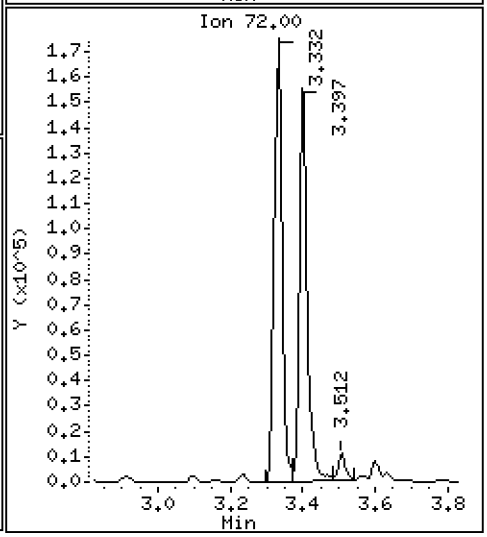


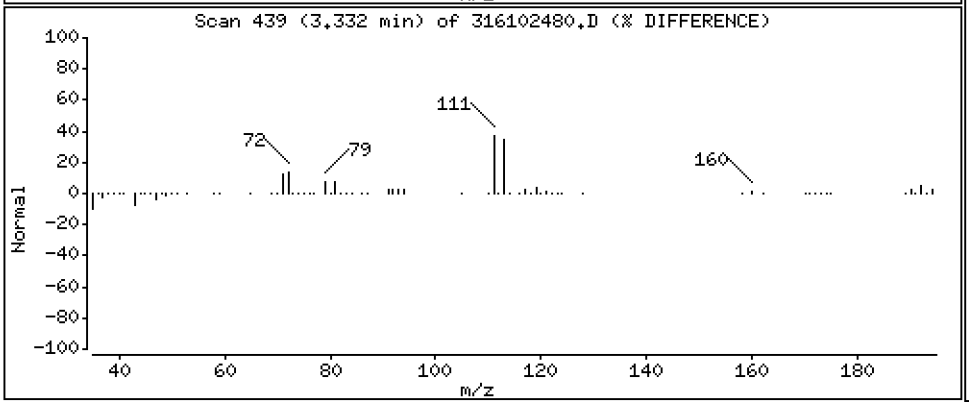












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 53

Date : 25-OCT-2016 09:17

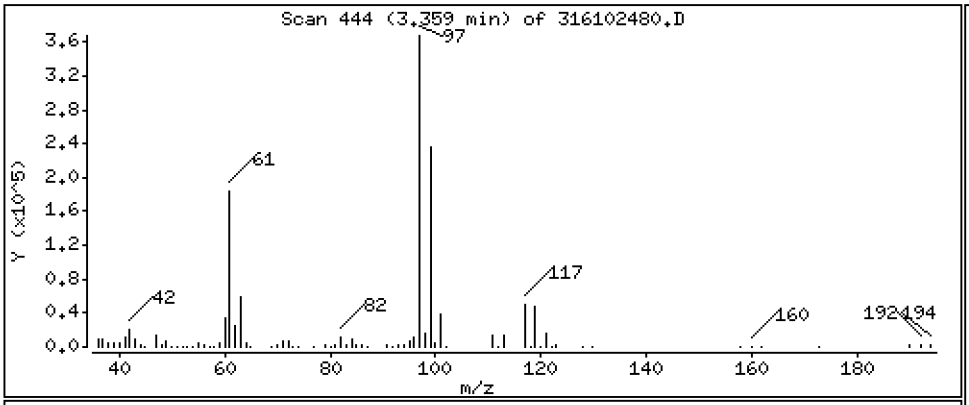
Client ID: Instrument: ms03.i

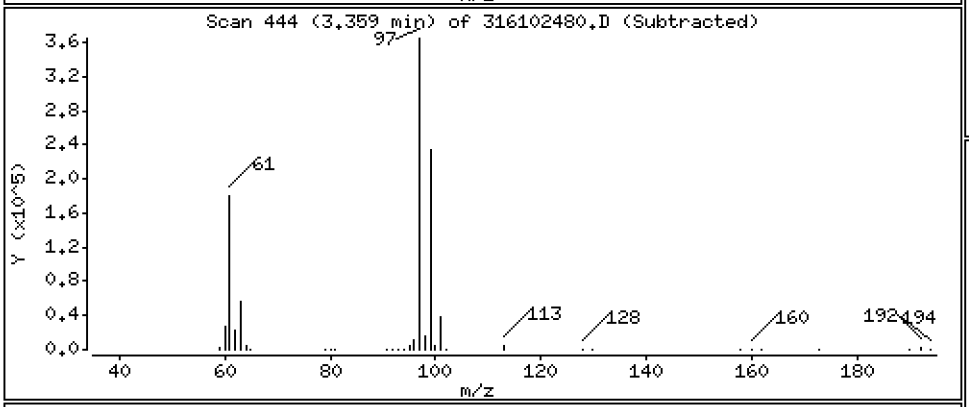
Sample Info: 1801;;1;2;4;;;

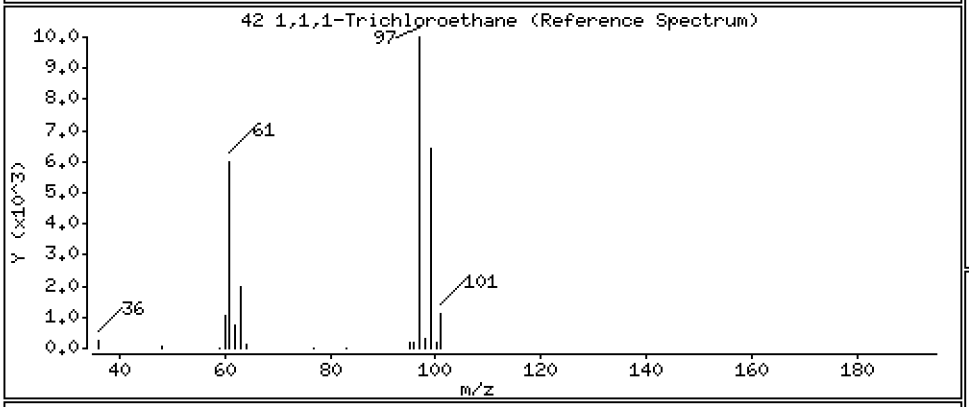
Purge Volume: 5.0 Operator: CJG

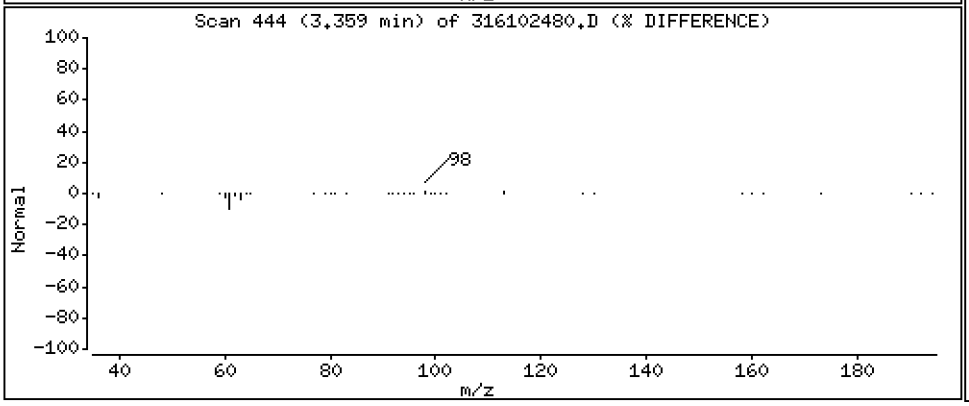
Column phase: DB-VRX Column diameter: 0.25

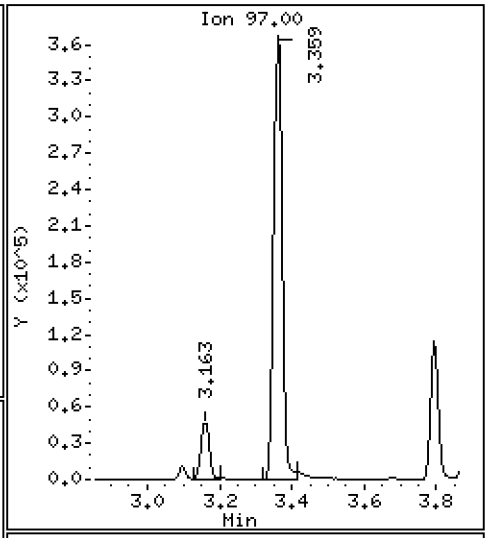
42 1,1,1-Trichloroethane Concentration: 47.3195 ug/L

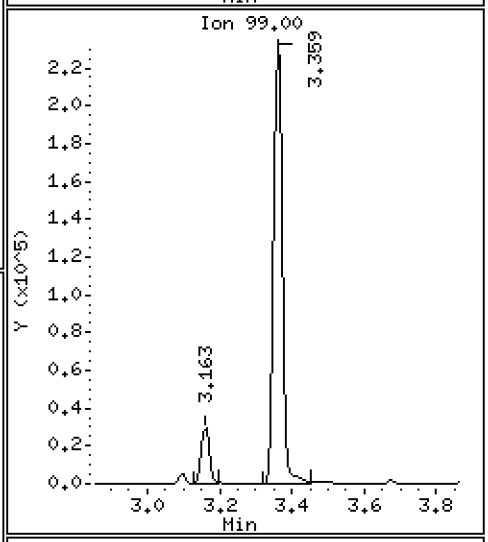


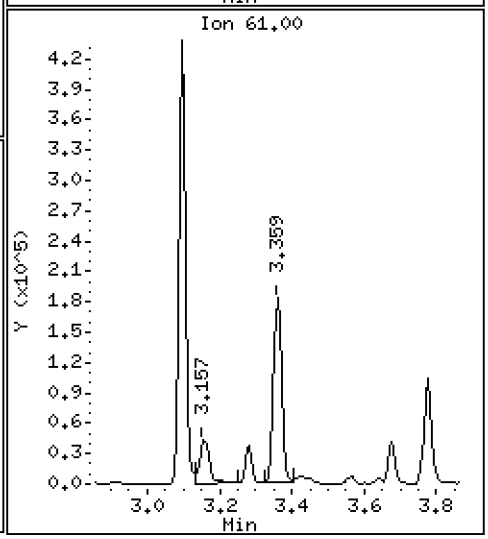












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 54

Date : 25-OCT-2016 09:17

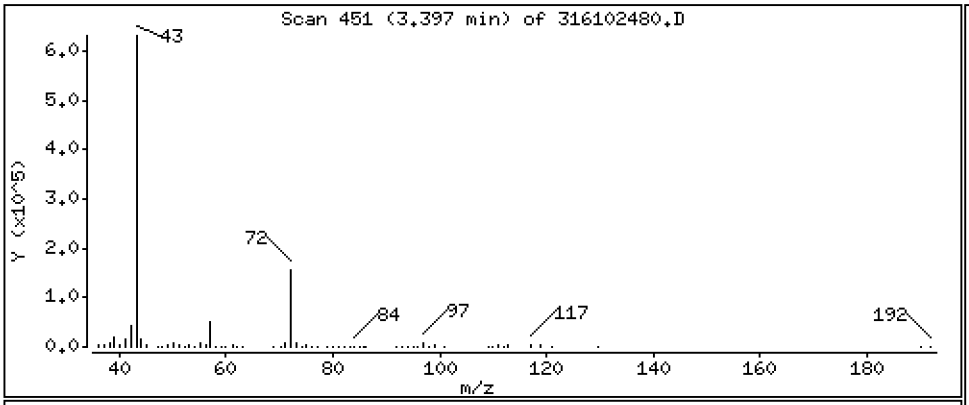
Client ID: Instrument: ms03.i

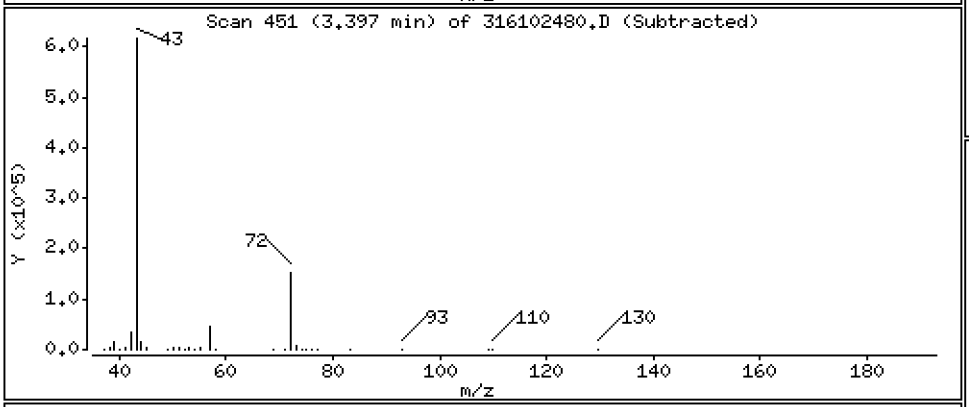
Sample Info: 1801;;1;2;4;;;

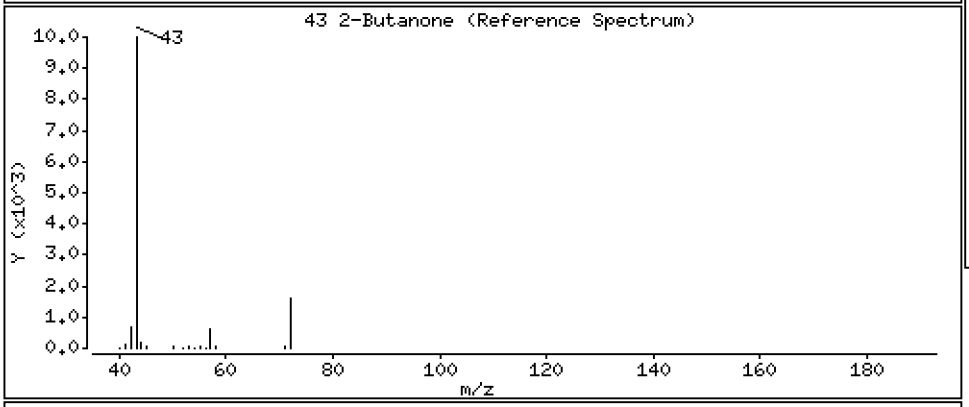
Purge Volume: 5.0 Operator: CJG

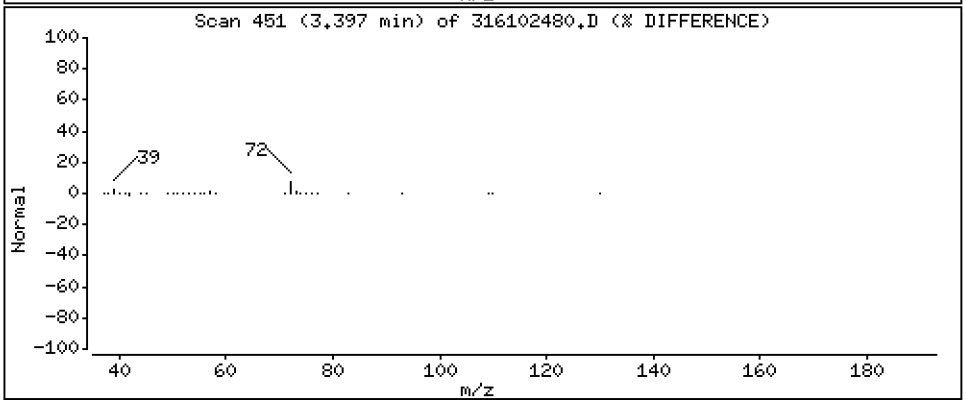
Column phase: DB-VRX Column diameter: 0.25

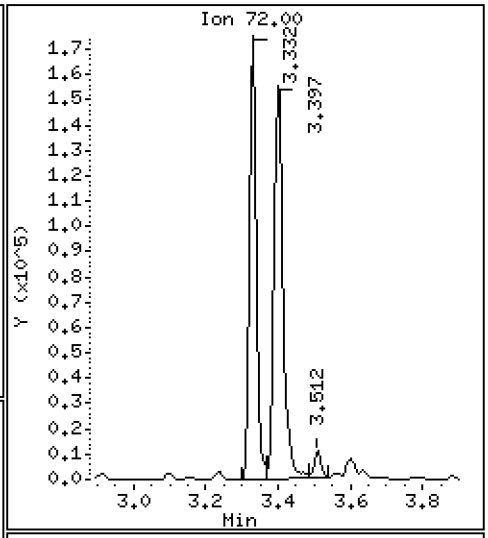
43 2-Butanone Concentration: 254.573 ug/L

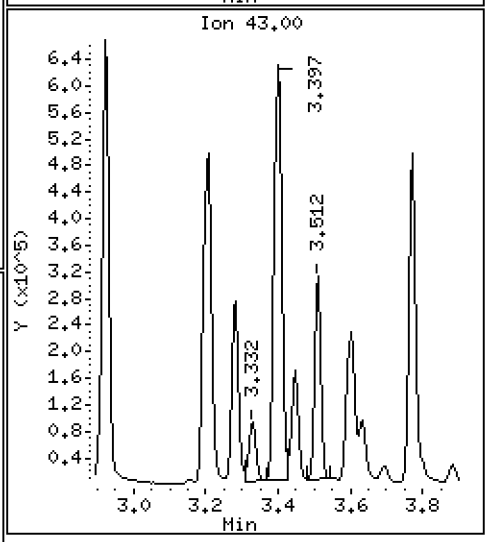












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 55

Date : 25-OCT-2016 09:17

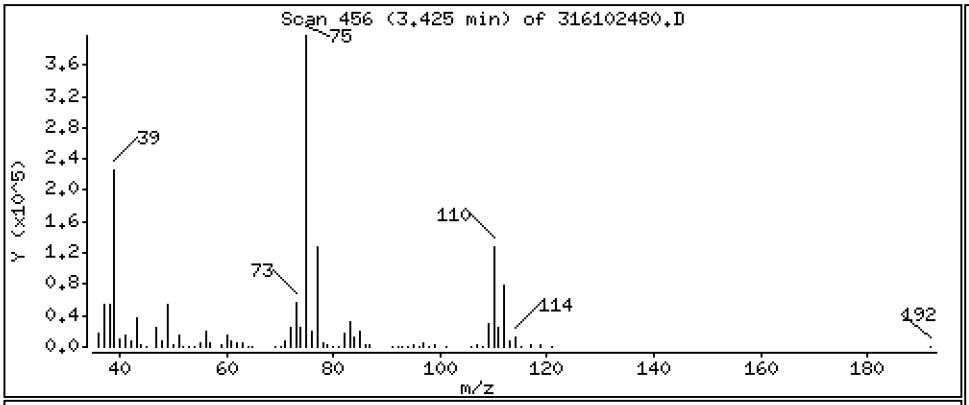
Client ID: Instrument: ms03.i

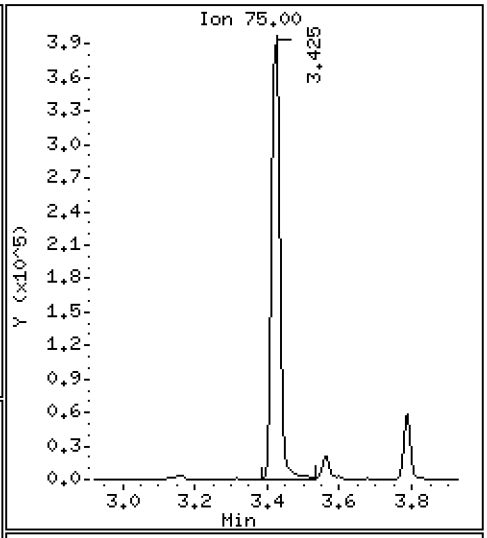
Sample Info: 1801;;1;2;4;;;

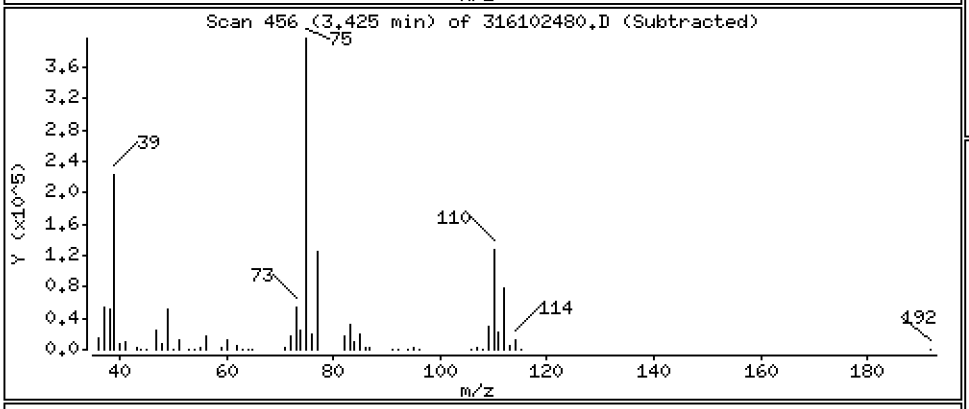
Purge Volume: 5.0 Operator: CJG

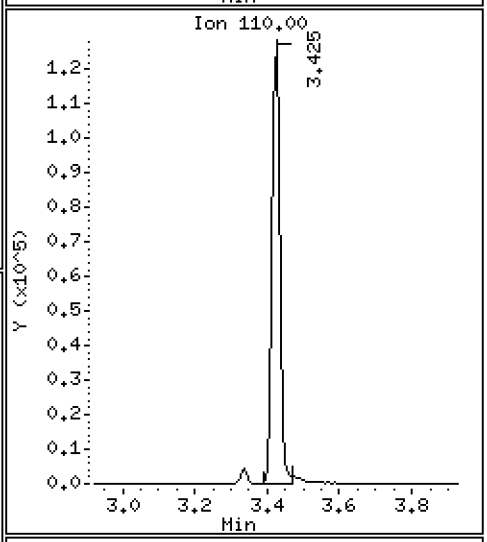
Column phase: DB-VRX Column diameter: 0.25

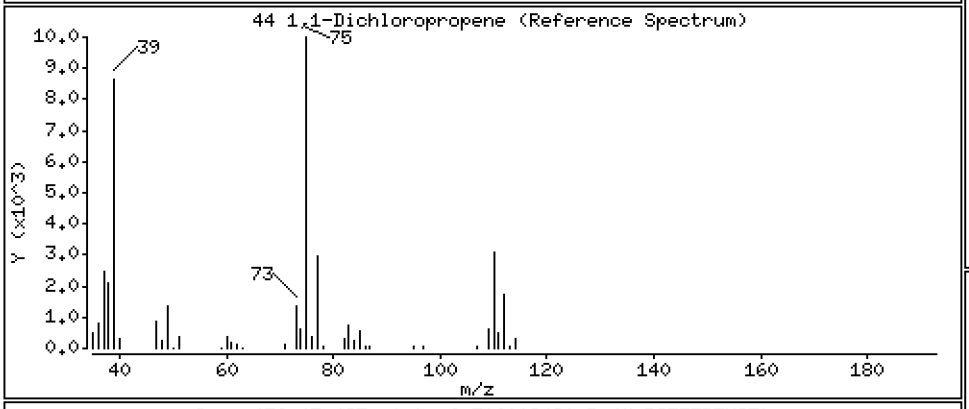
44 1,1-Dichloropropene Concentration: 46.0482 ug/L

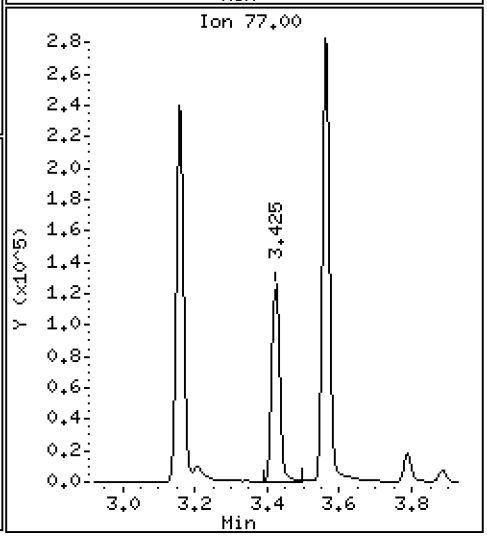


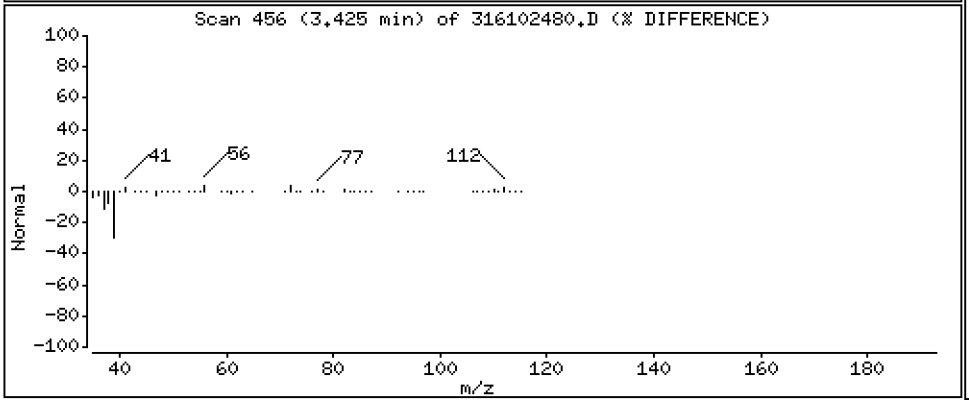












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 56

Date : 25-OCT-2016 09:17

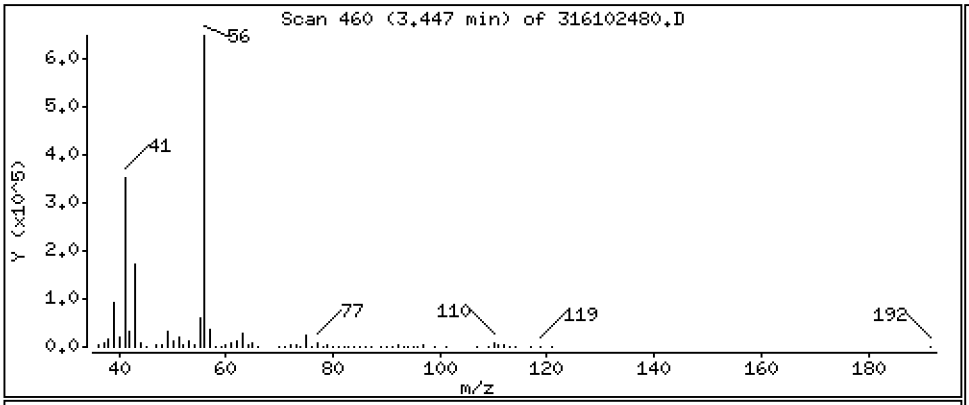
Client ID: Instrument: ms03.i

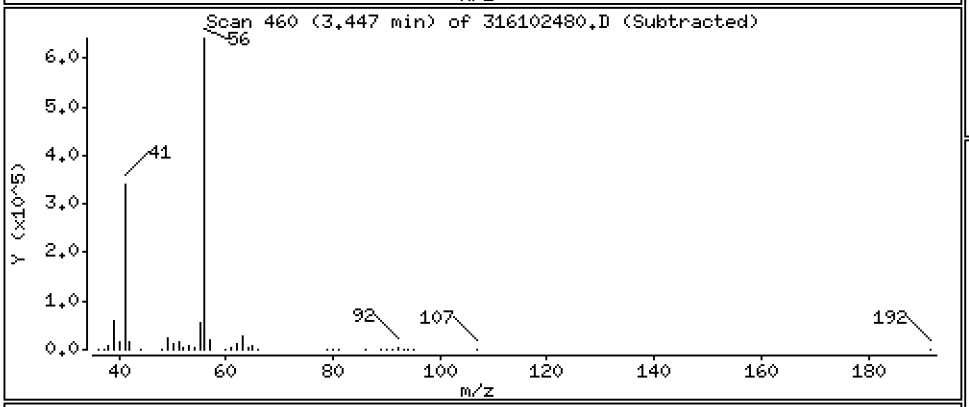
Sample Info: 1801;;1;2;4;;;

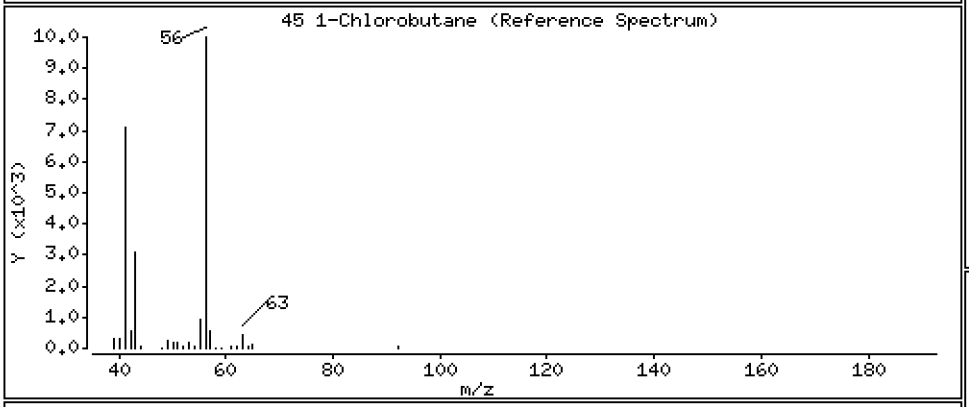
Purge Volume: 5.0 Operator: CJG

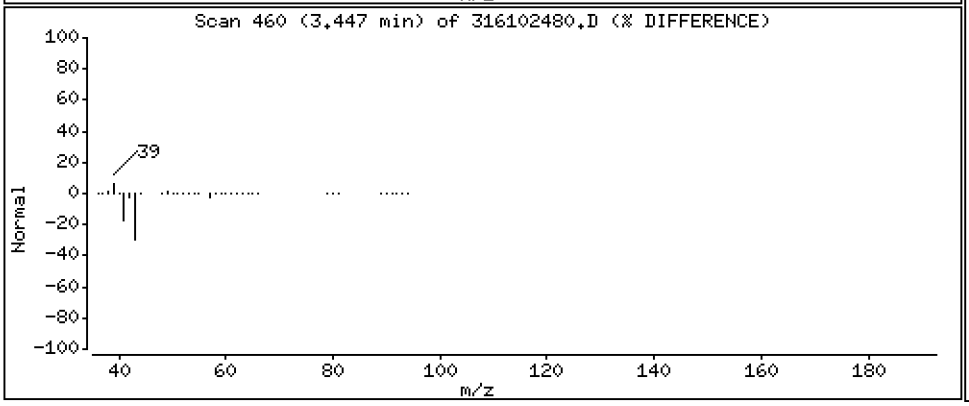
Column phase: DB-VRX Column diameter: 0.25

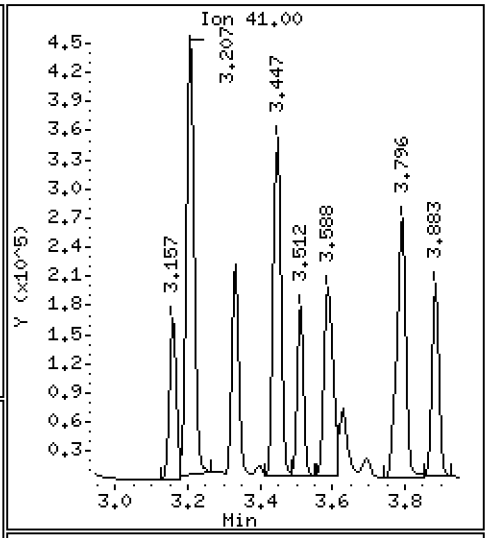
45 1-Chlorobutane Concentration: 51.3855 ug/L

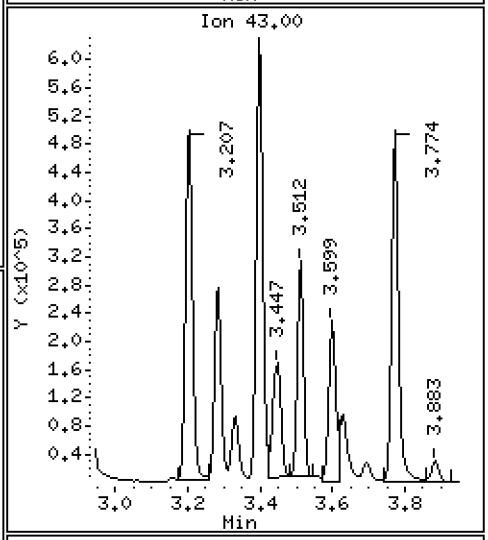


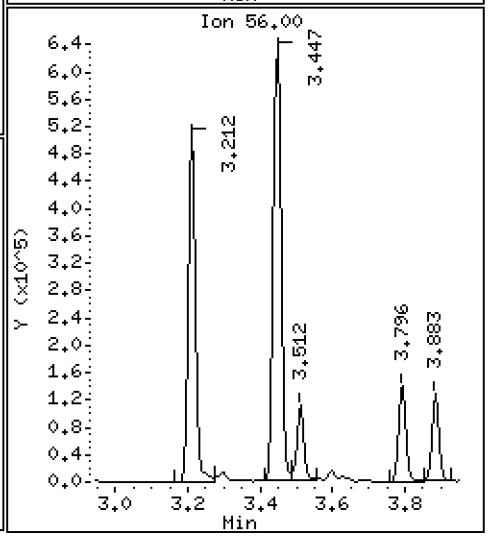












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 57

Date : 25-OCT-2016 09:17

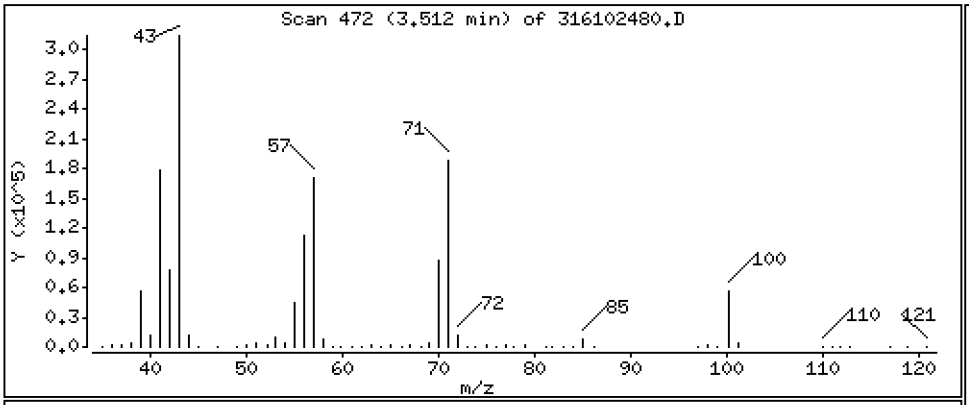
Client ID: Instrument: ms03.i

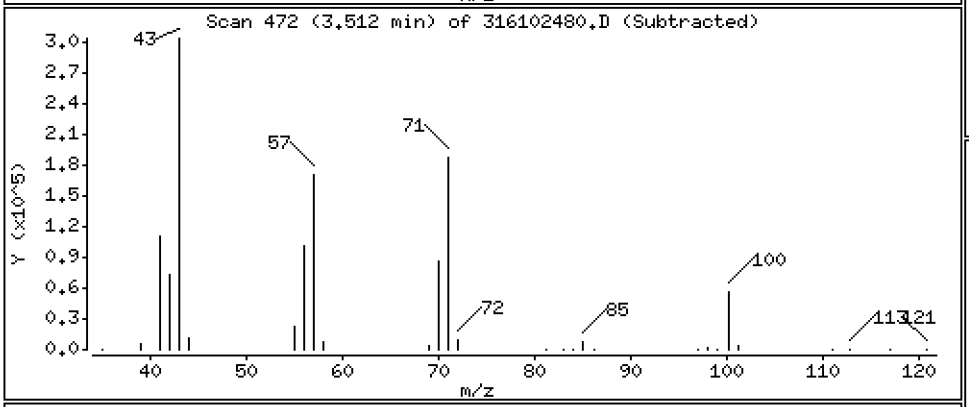
Sample Info: 1801;;1;2;4;;;

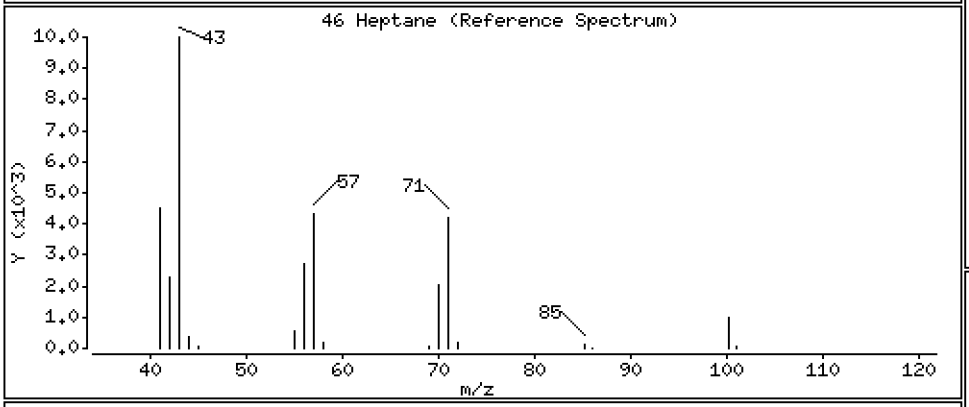
Purge Volume: 5.0 Operator: CJG

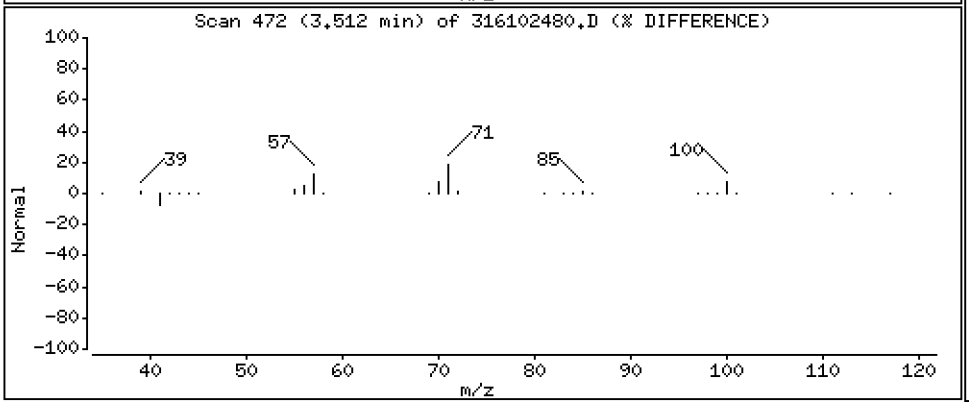
Column phase: DB-VRX Column diameter: 0.25

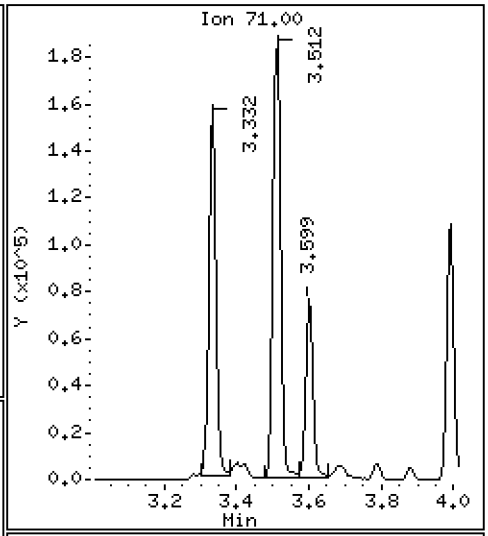
46 Heptane Concentration: 43.8094 ug/L

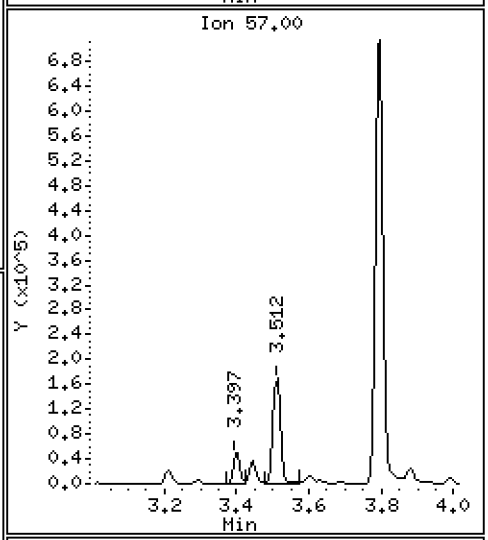


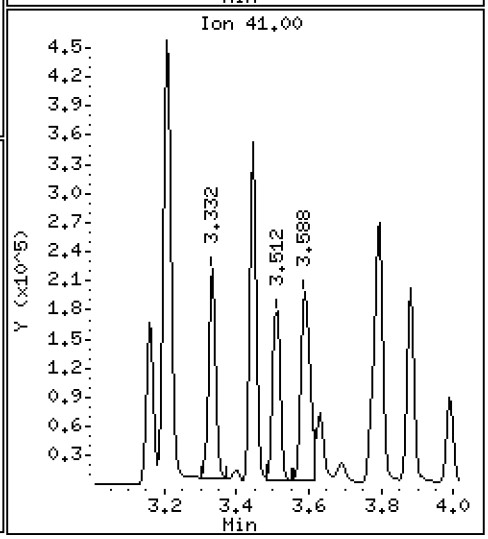












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 58

Date : 25-OCT-2016 09:17

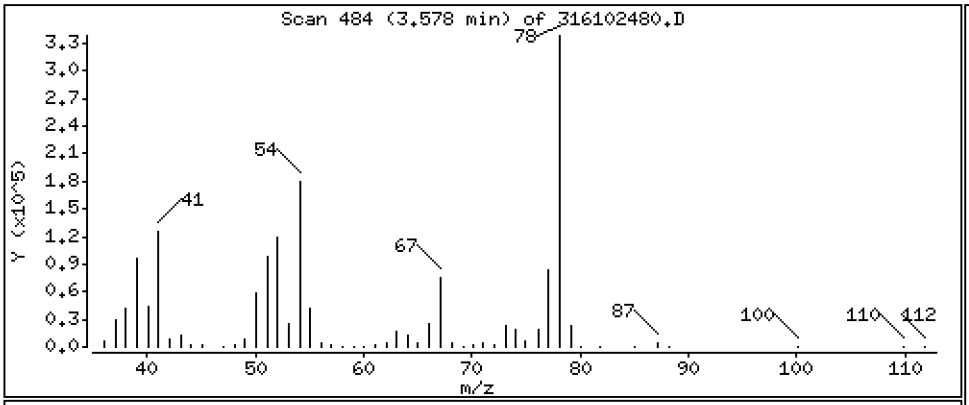
Client ID: Instrument: ms03.i

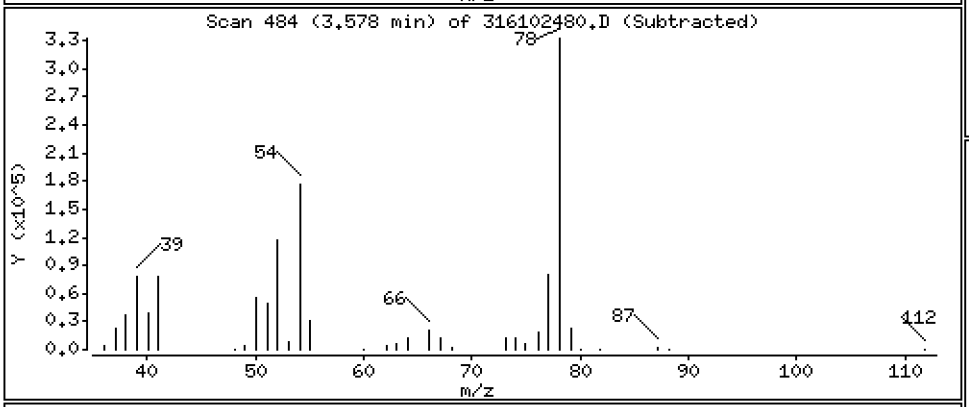
Sample Info: 1801;;1;2;4;;;

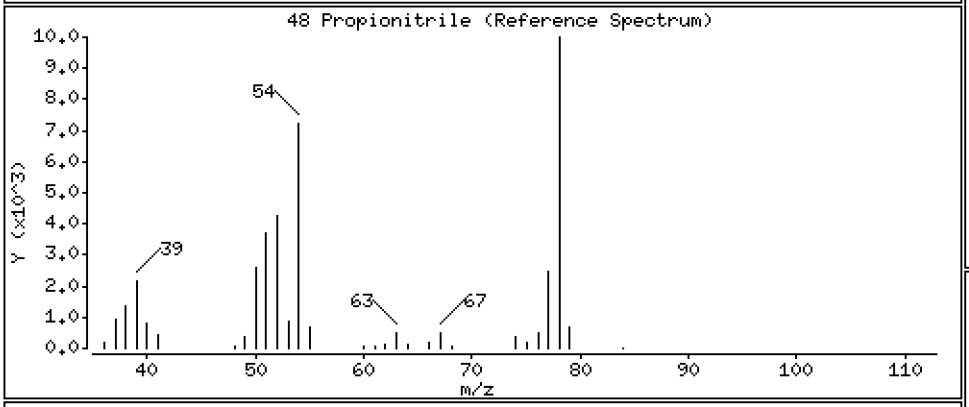
Purge Volume: 5.0 Operator: CJG

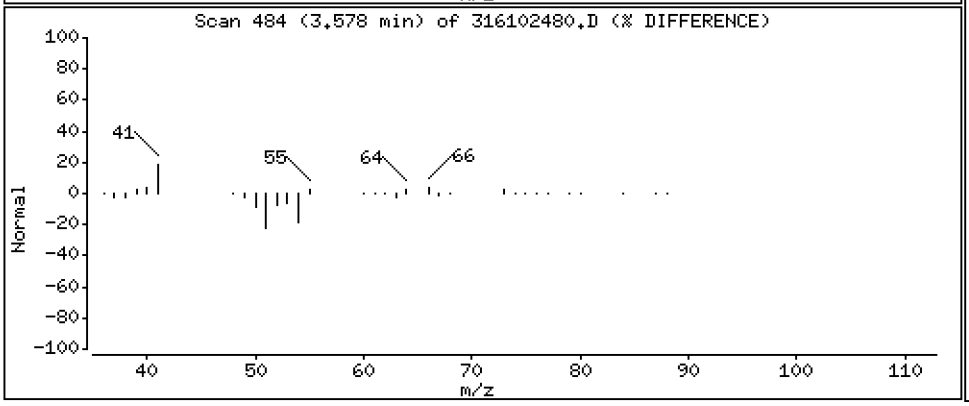
Column phase: DB-VRX Column diameter: 0.25

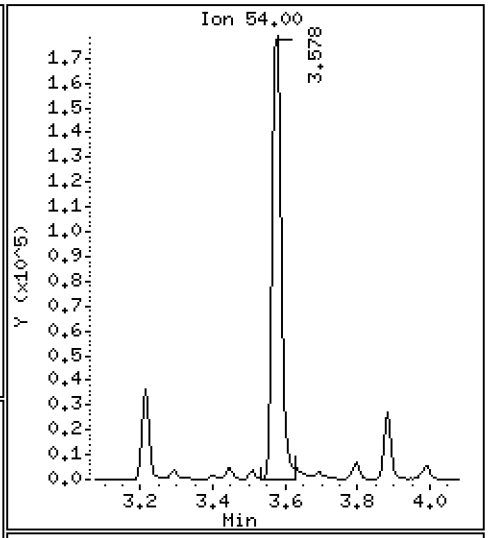
48 Propionitrile Concentration: 250.925 ug/L

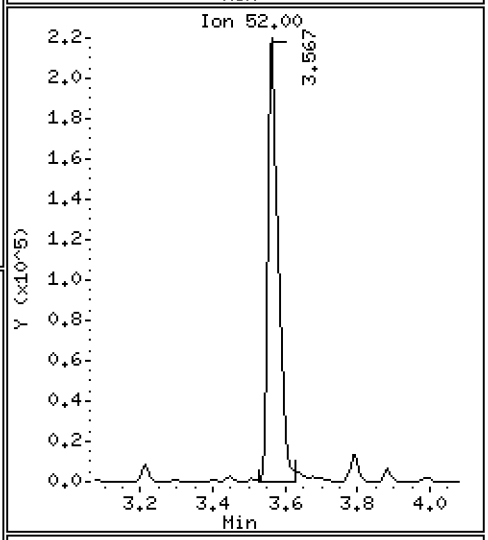


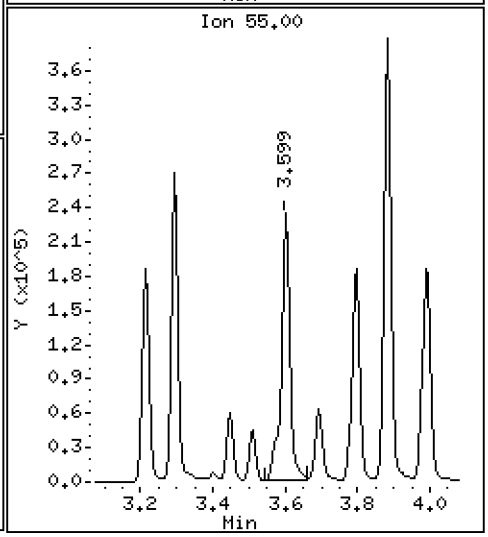












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 59

Date : 25-OCT-2016 09:17

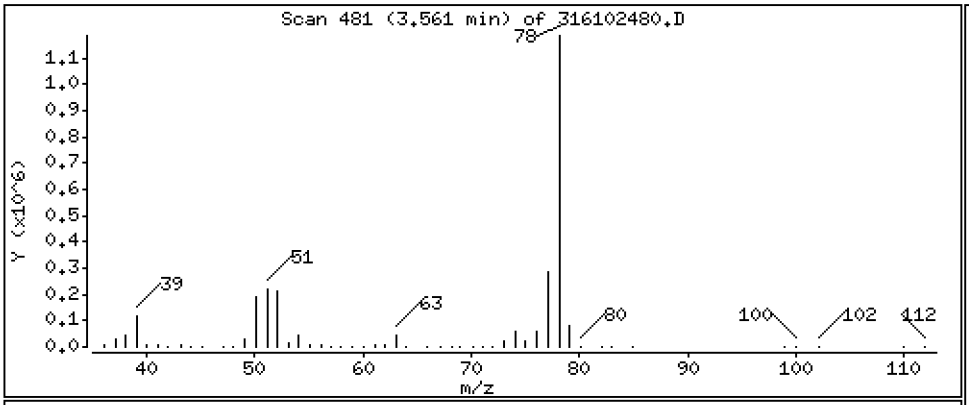
Client ID: Instrument: ms03.i

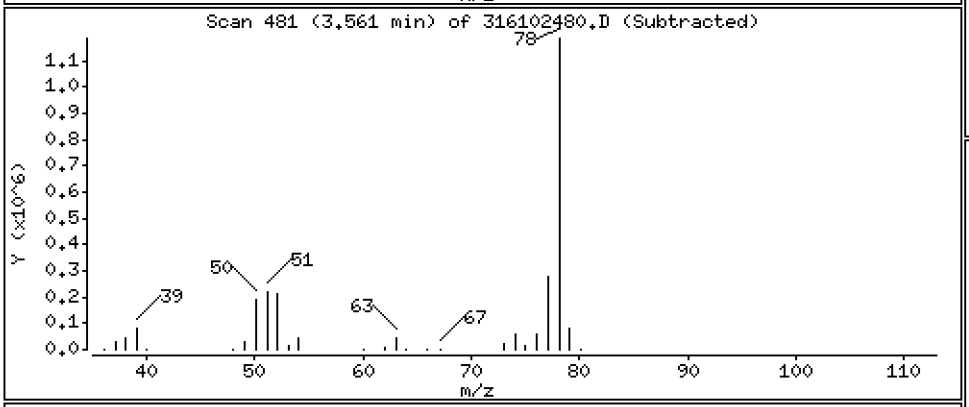
Sample Info: 1801;;1;2;4;;;

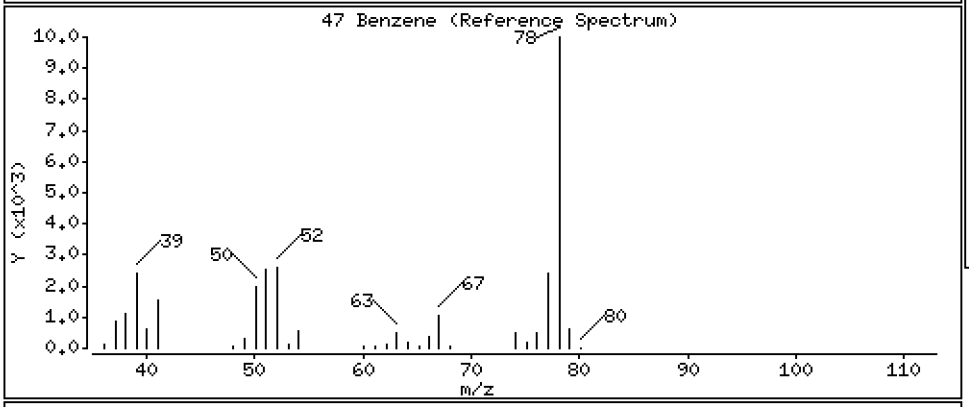
Purge Volume: 5.0 Operator: CJG

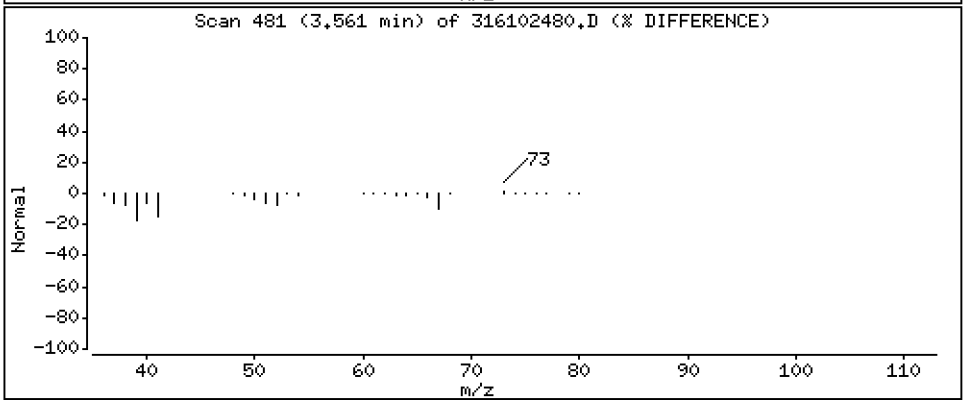
Column phase: DB-VRX Column diameter: 0.25

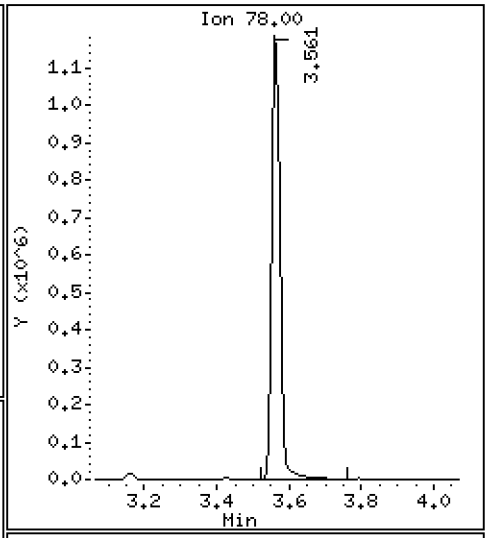
47 Benzene Concentration: 45.9812 ug/L

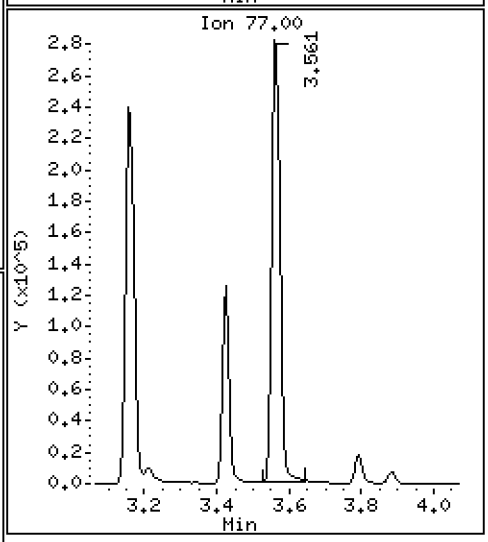












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 60

Date : 25-OCT-2016 09:17

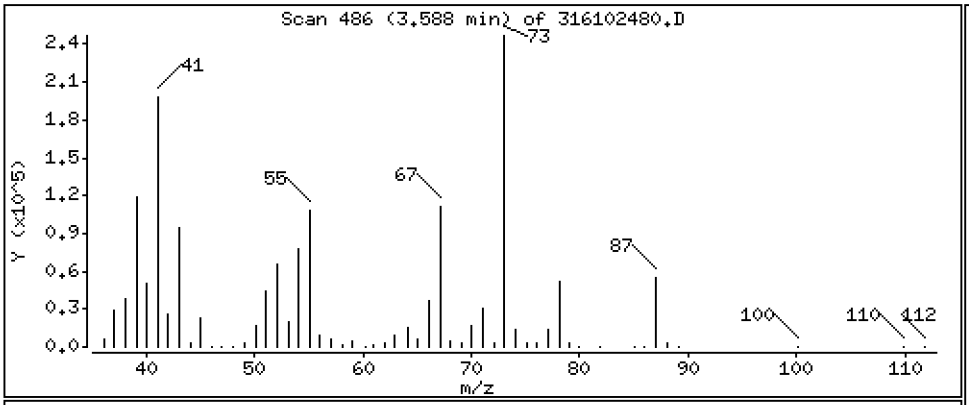
Client ID: Instrument: ms03.i

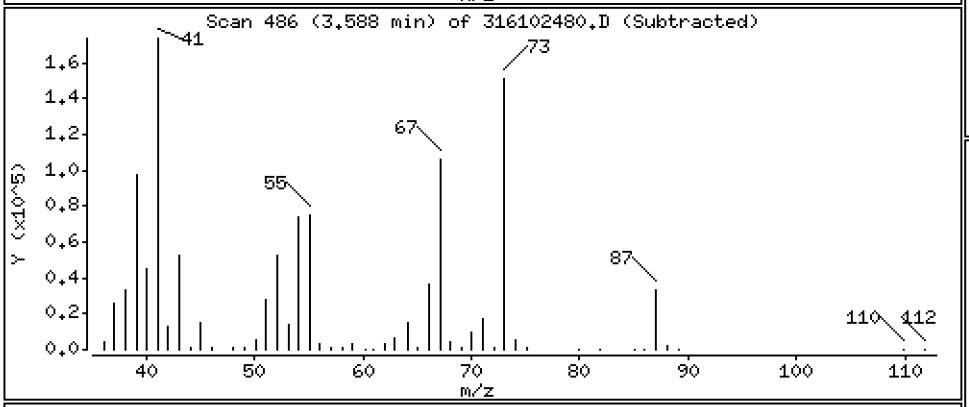
Sample Info: 1801;;1;2;4;;;

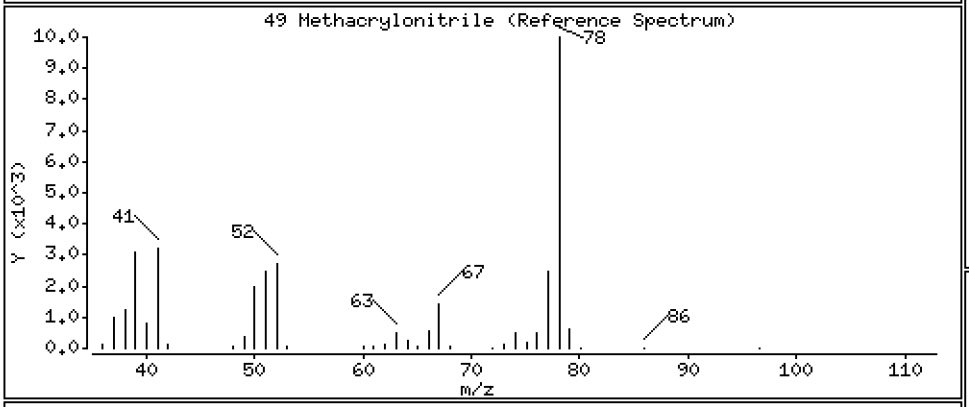
Purge Volume: 5.0 Operator: CJG

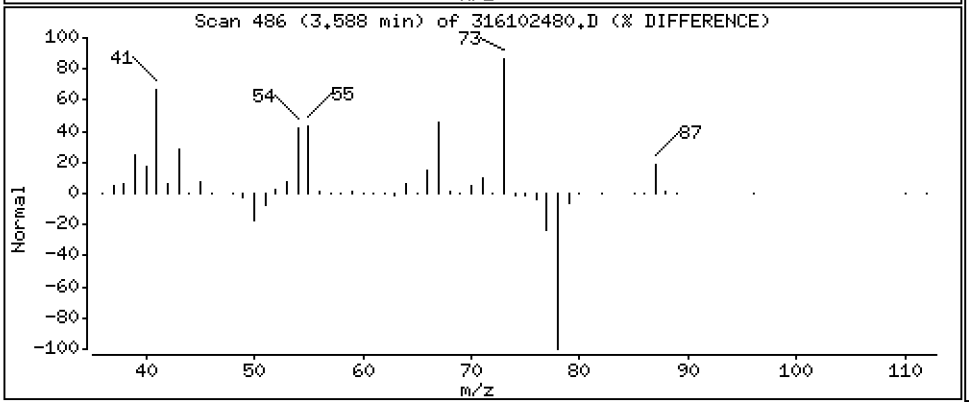
Column phase: DB-VRX Column diameter: 0.25

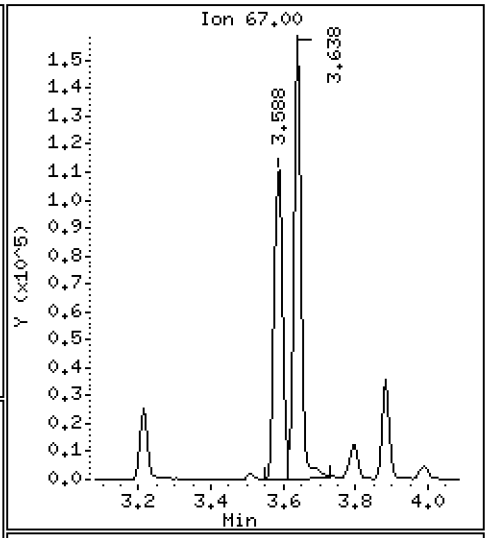
49 Methacrylonitrile Concentration: 47.9500 ug/L

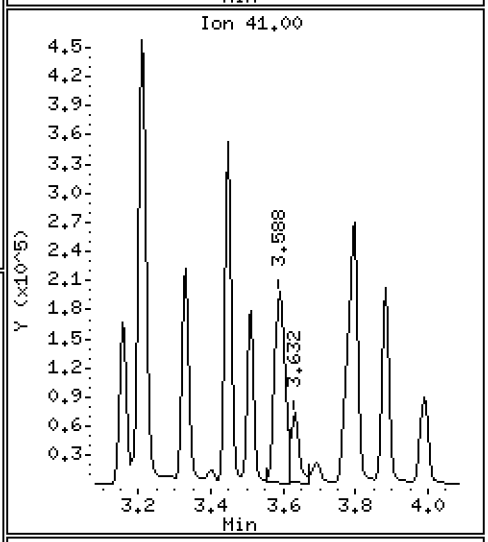


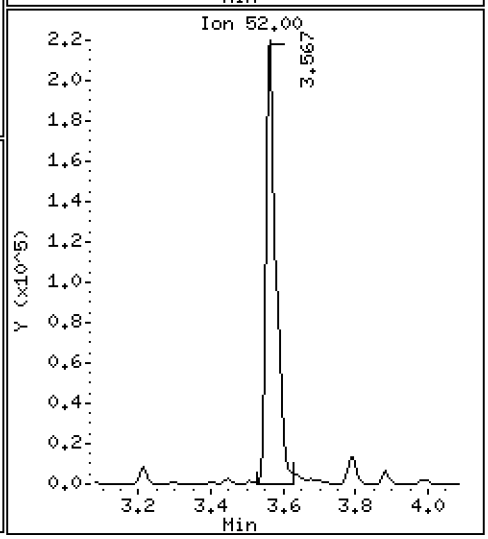












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 61

Date : 25-OCT-2016 09:17

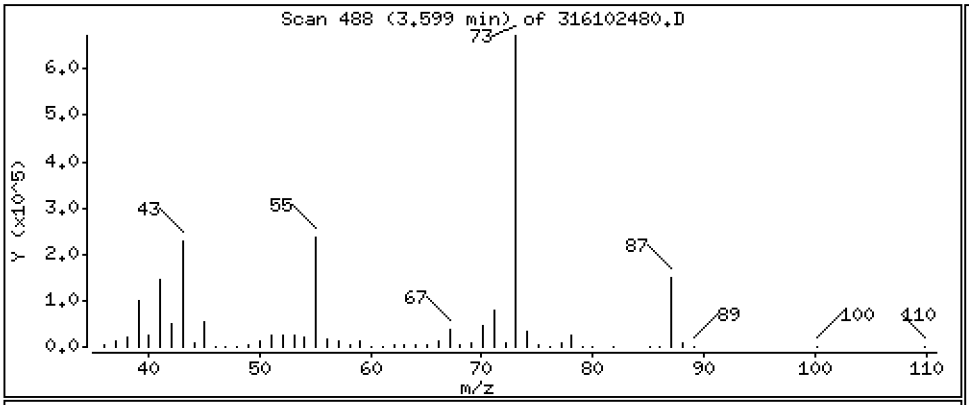
Client ID: Instrument: ms03.i

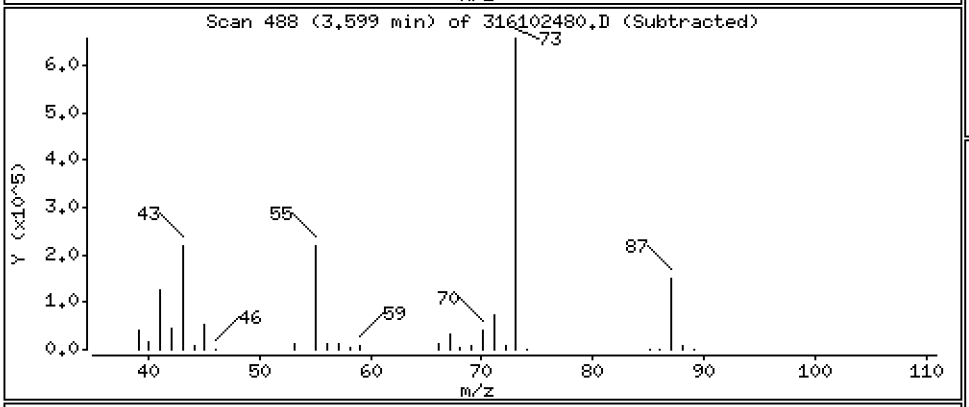
Sample Info: 1801;;1;2;4;;;

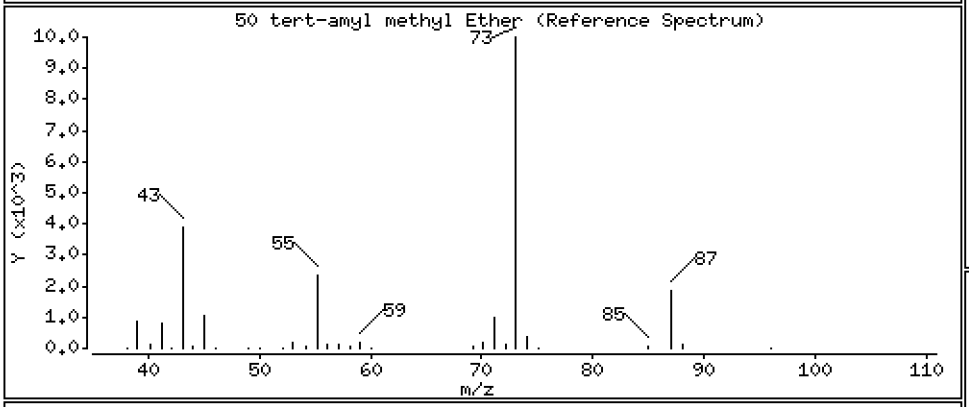
Purge Volume: 5.0 Operator: CJG

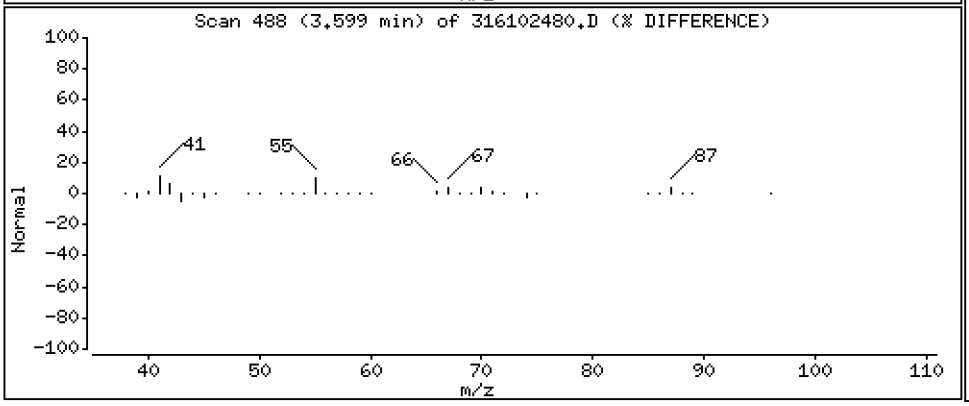
Column phase: DB-VRX Column diameter: 0.25

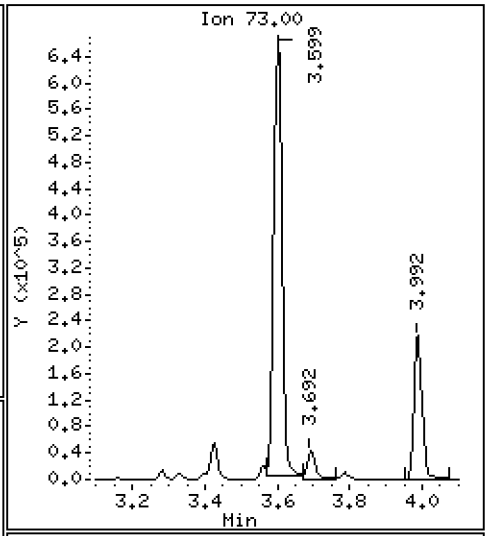
50 tert-amyl methyl Ether Concentration: 48.6770 ug/L

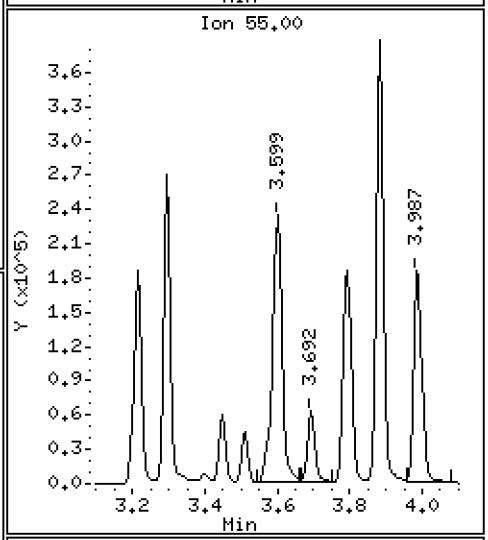


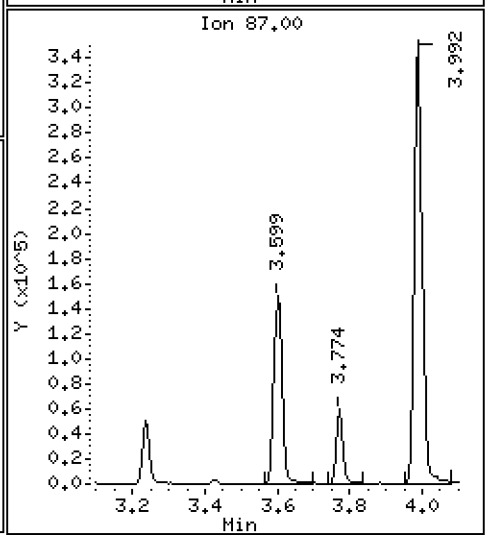












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 62

Date : 25-OCT-2016 09:17

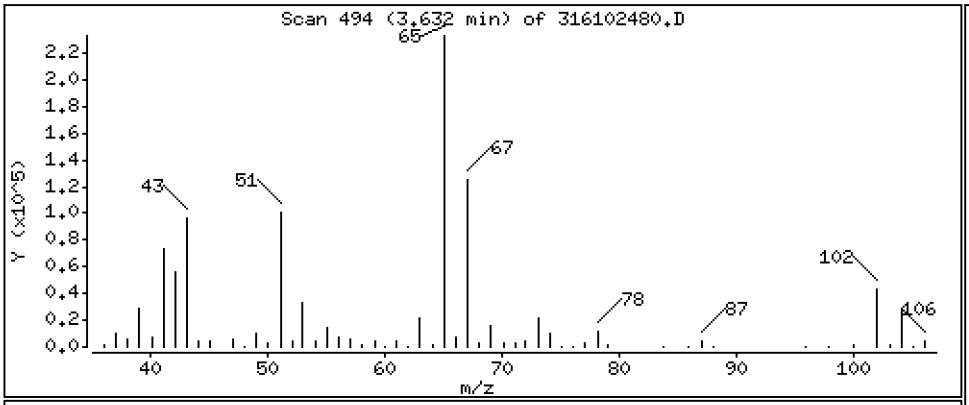
Client ID: Instrument: ms03.i

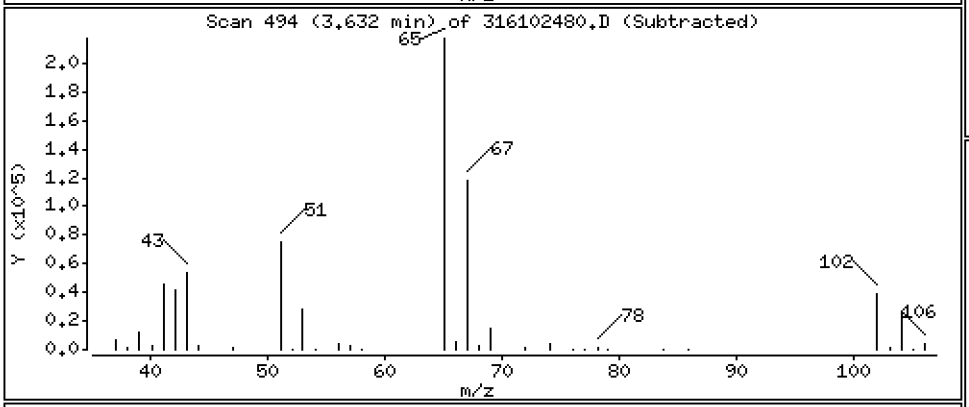
Sample Info: 1801;;1;2;4;;;

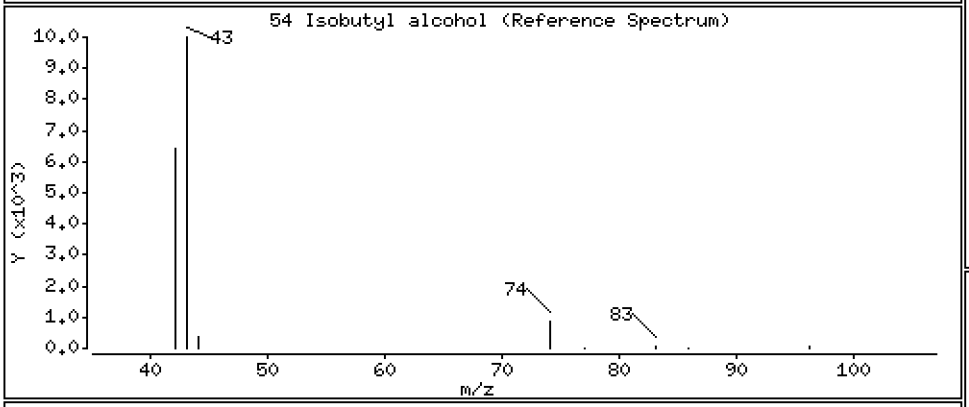
Purge Volume: 5.0 Operator: CJG

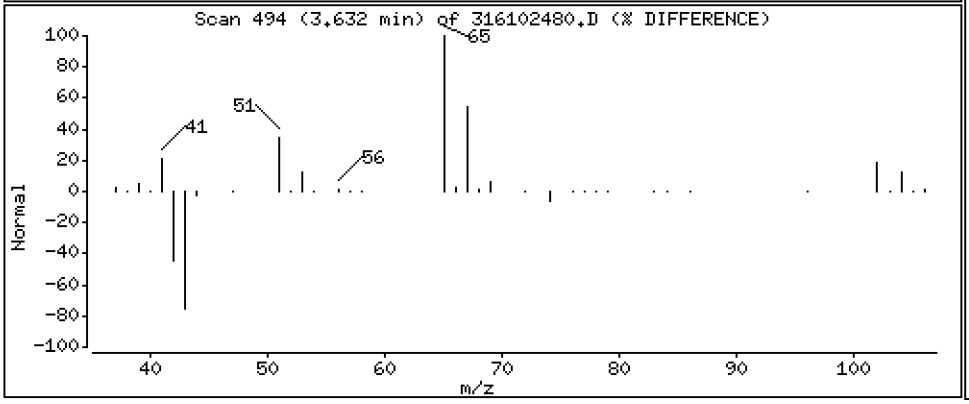
Column phase: DB-VRX Column diameter: 0.25

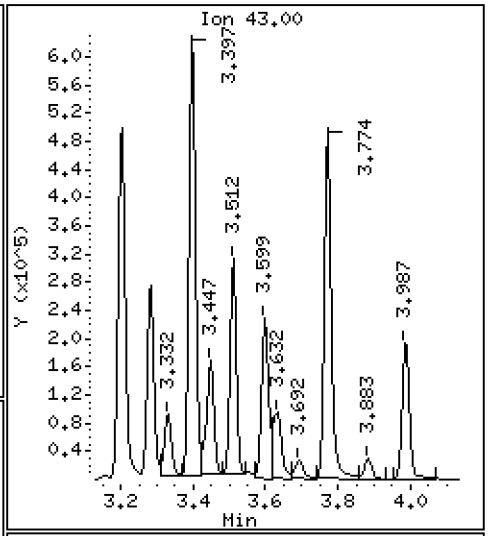
54 Isobutyl alcohol Concentration: 726.494 ug/L

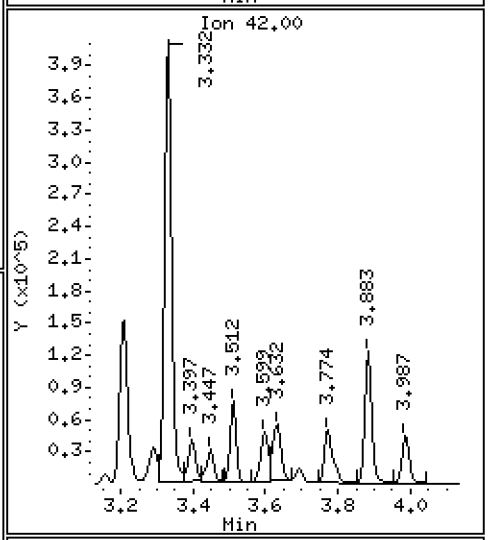


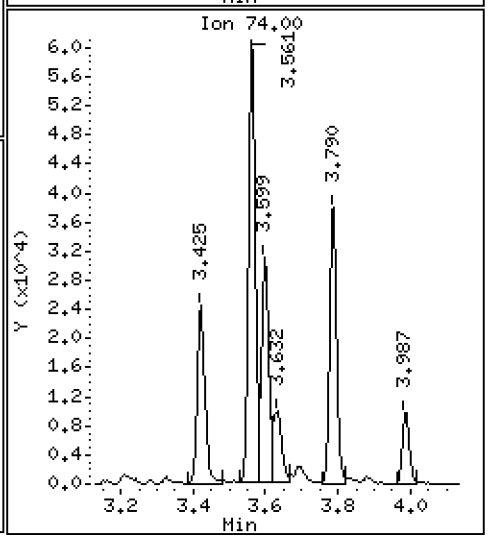












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 63

Date : 25-OCT-2016 09:17

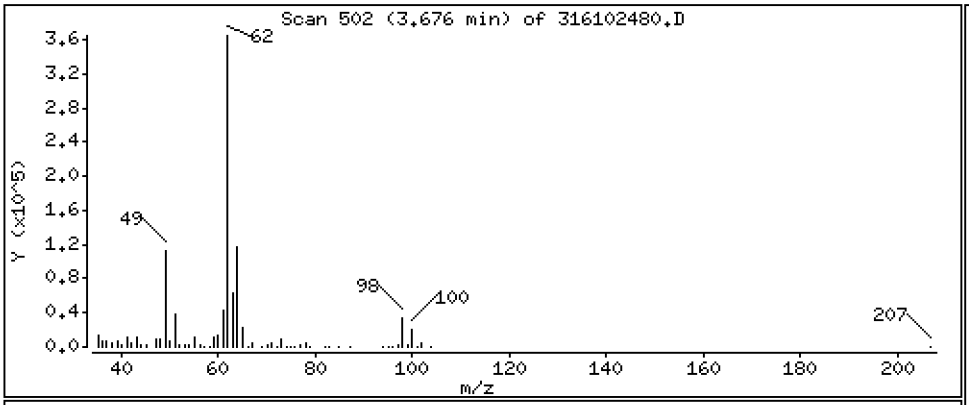
Client ID: Instrument: ms03.i

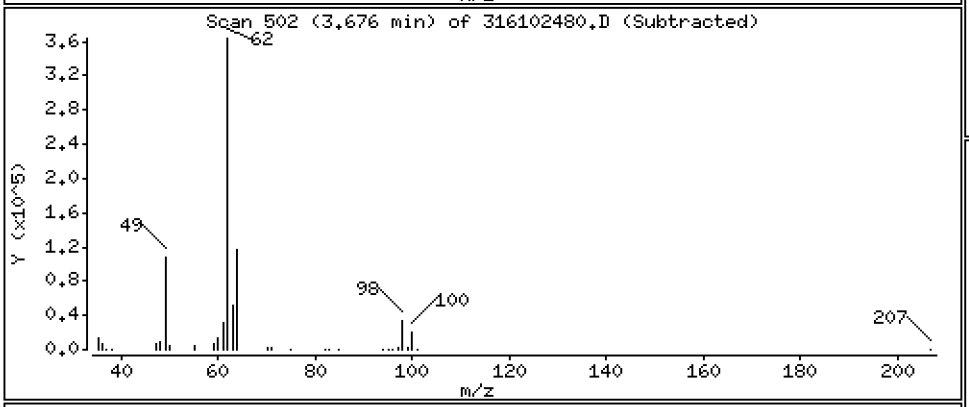
Sample Info: 1801;;1;2;4;;;

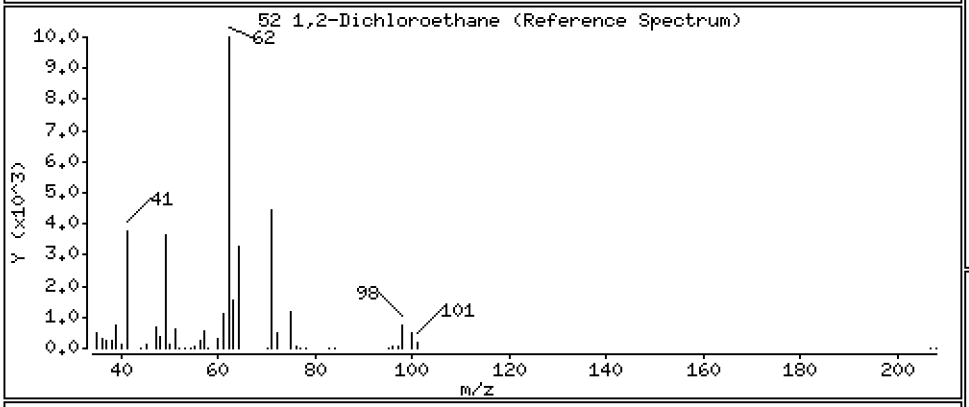
Purge Volume: 5.0 Operator: CJG

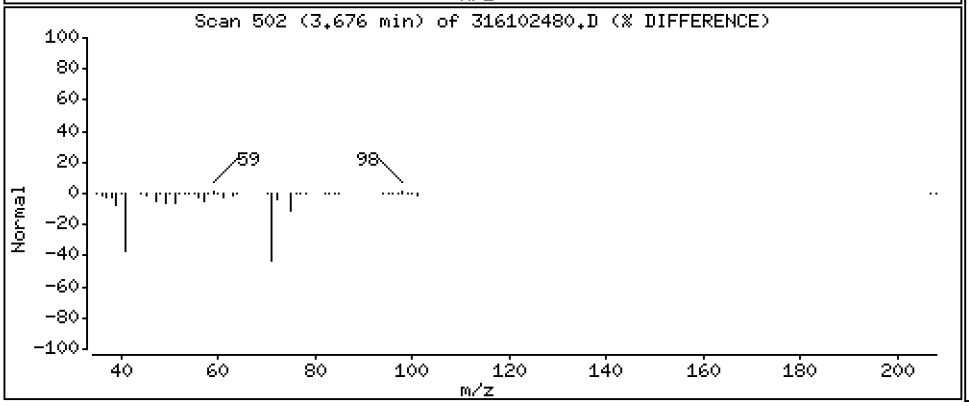
Column phase: DB-VRX Column diameter: 0.25

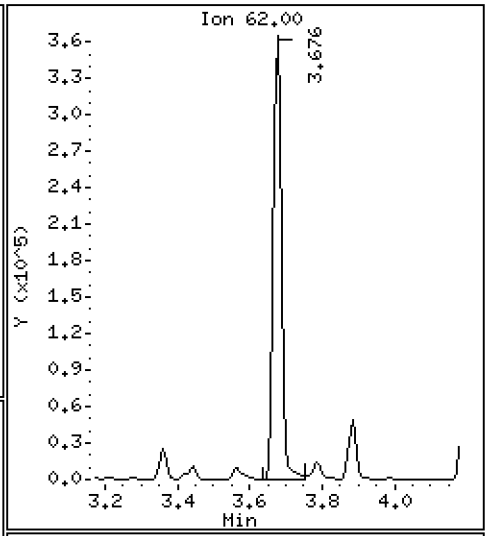
52 1,2-Dichloroethane Concentration: 45.9320 ug/L

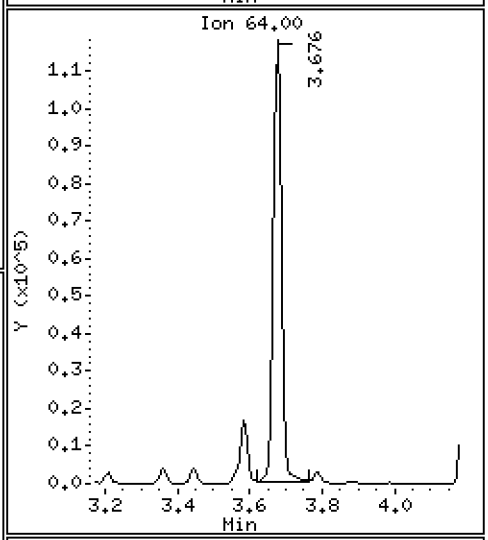


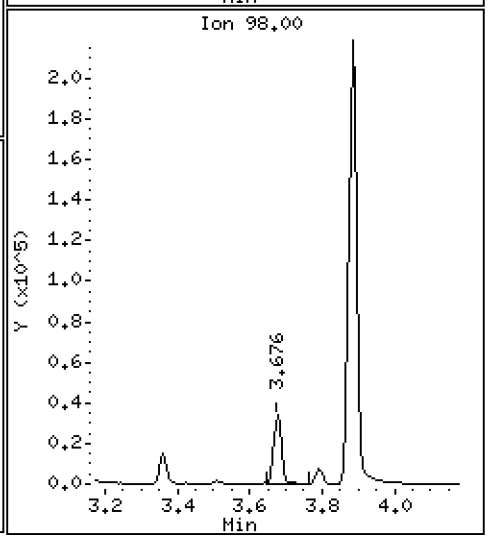












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 64

Date : 25-OCT-2016 09:17

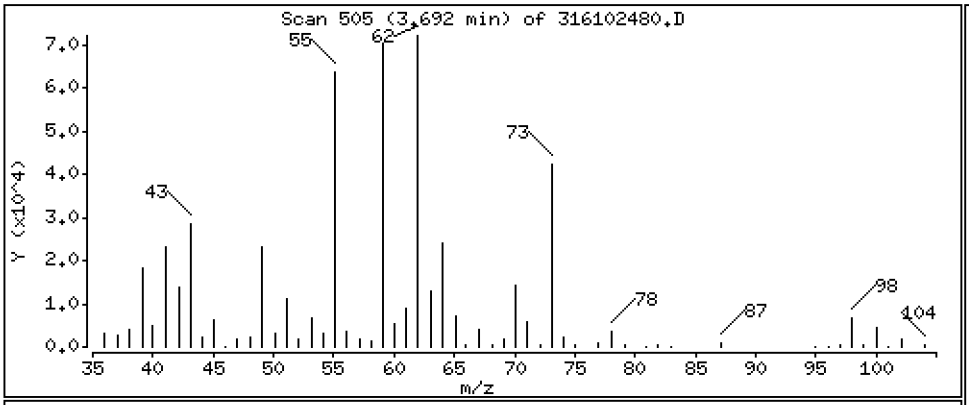
Client ID: Instrument: ms03.i

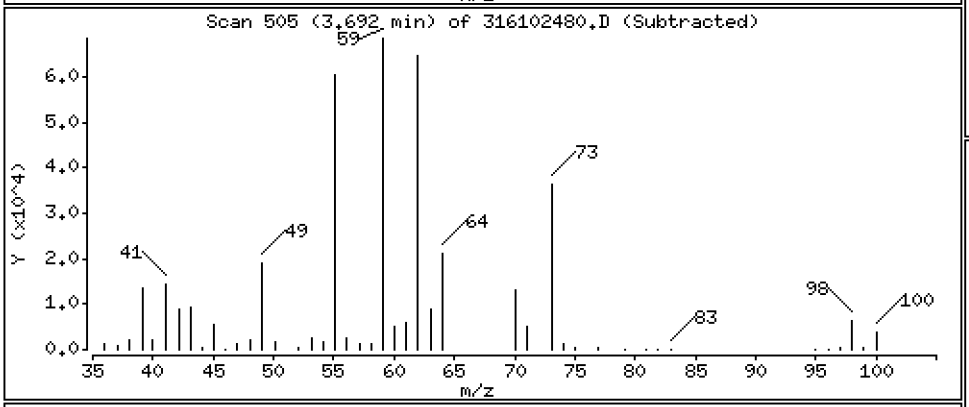
Sample Info: 1801;;1;2;4;;;

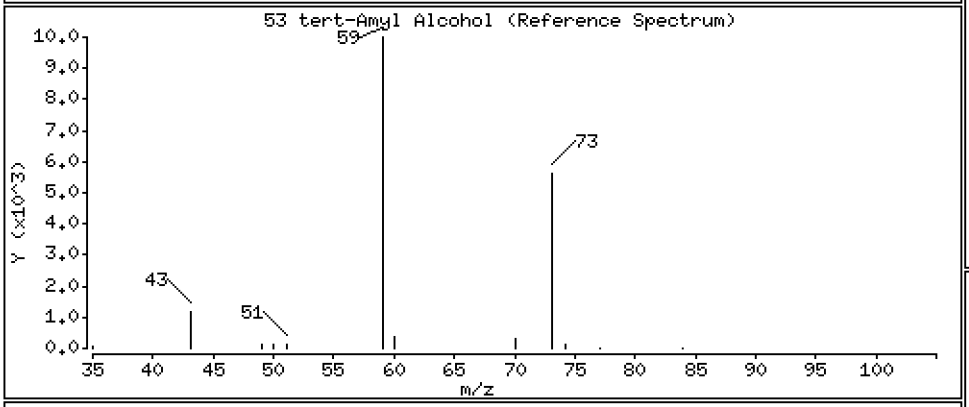
Purge Volume: 5.0 Operator: CJG

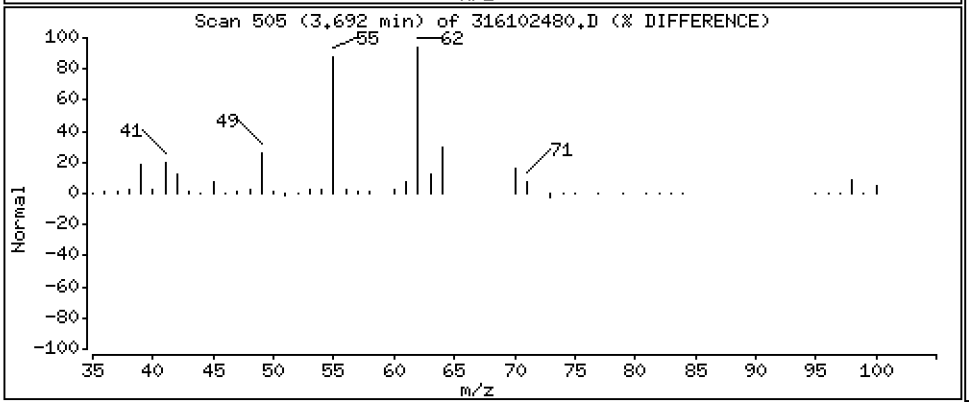
Column phase: DB-VRX Column diameter: 0.25

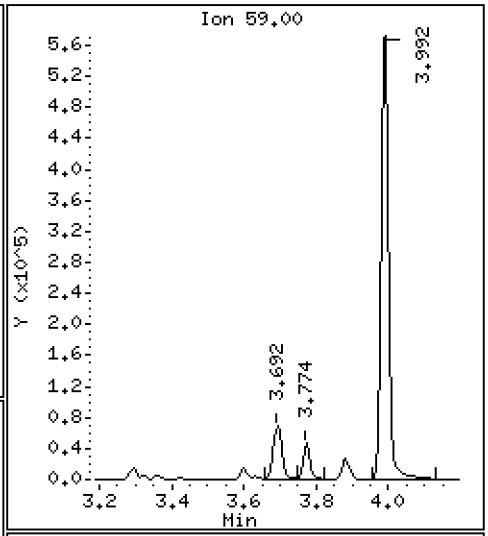
53 tert-Amyl Alcohol Concentration: 268.591 ug/L

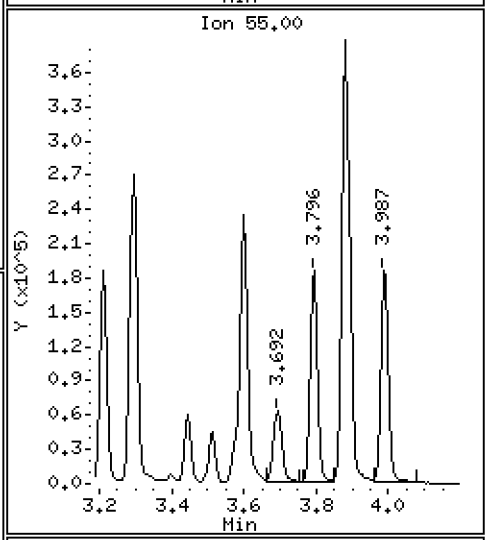


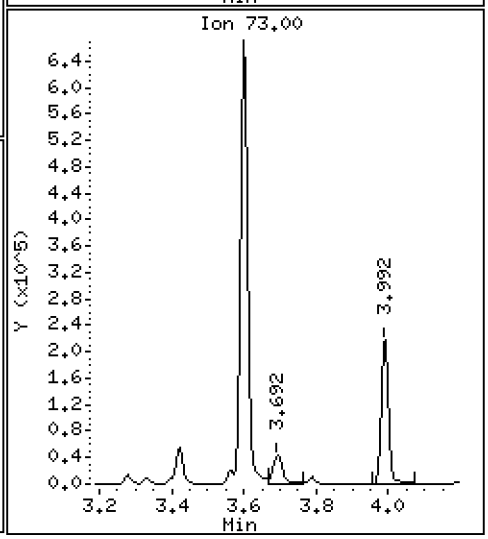












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 65

Date : 25-OCT-2016 09:17

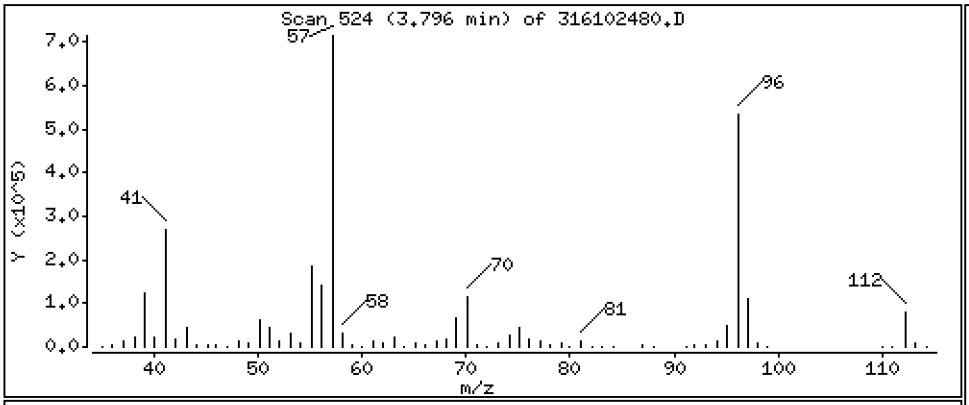
Client ID: Instrument: ms03.i

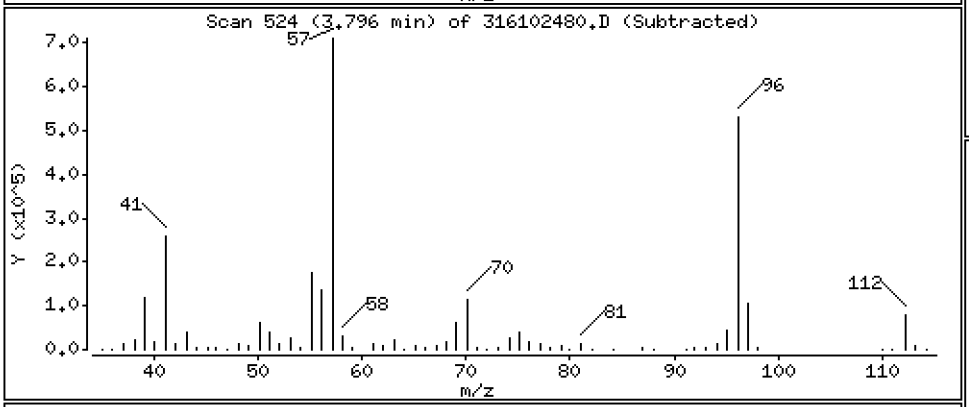
Sample Info: 1801;;1;2;4;;;

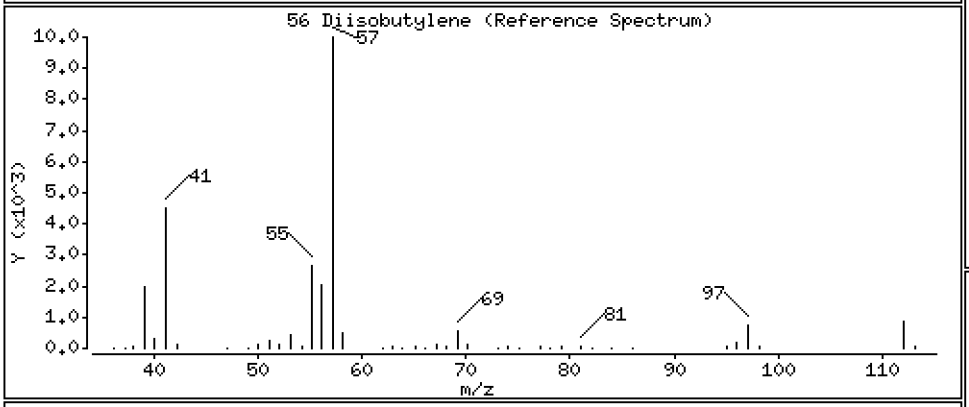
Purge Volume: 5.0 Operator: CJG

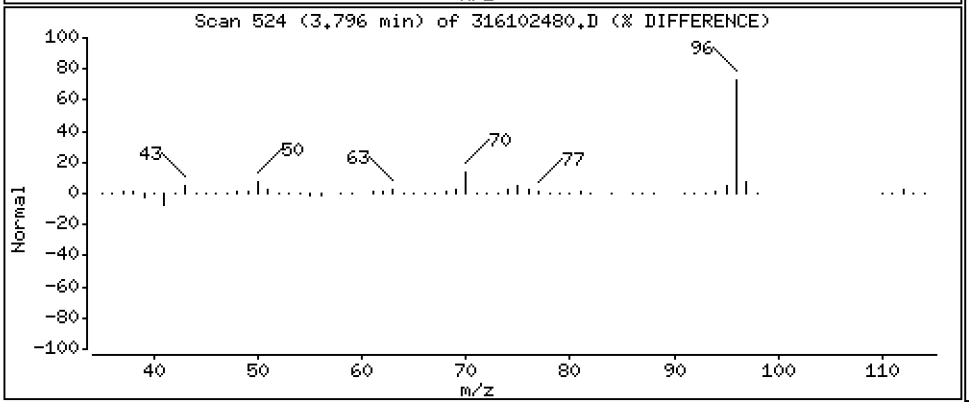
Column phase: DB-VRX Column diameter: 0.25

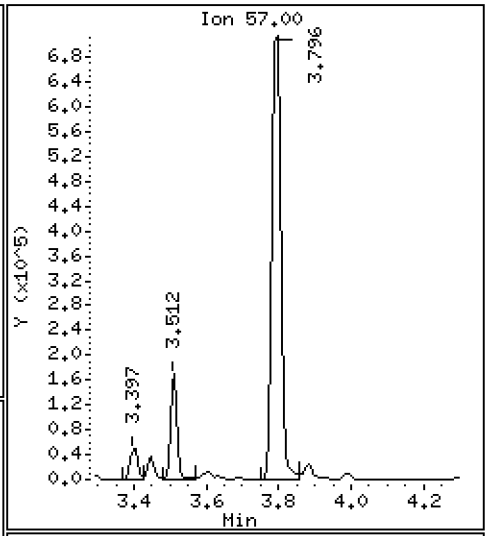
56 Diisobutylene Concentration: 52.4587 ug/L

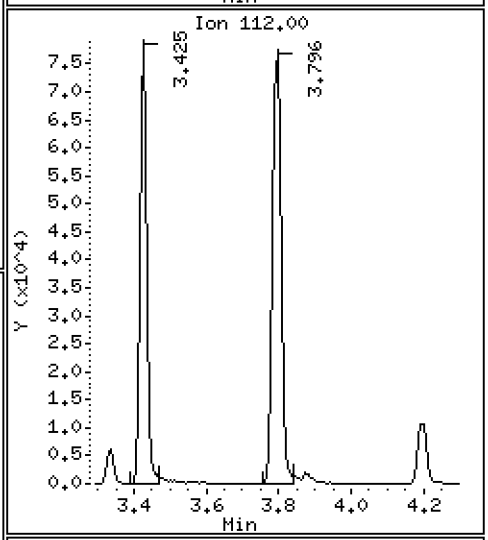


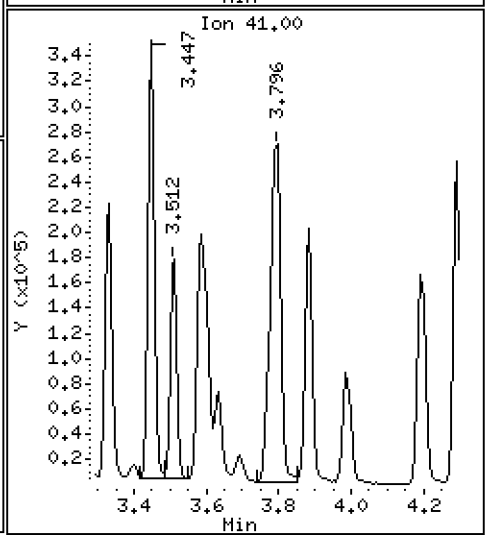












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 66

Date : 25-OCT-2016 09:17

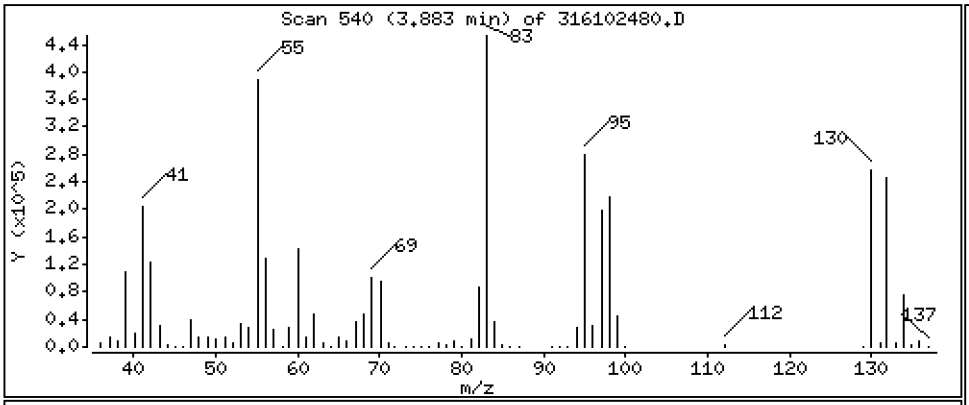
Client ID: Instrument: ms03.i

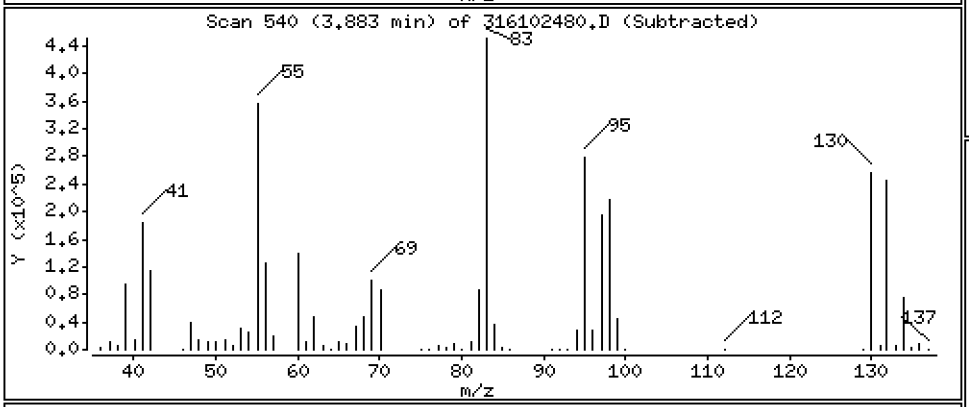
Sample Info: 1801;;1;2;4;;;

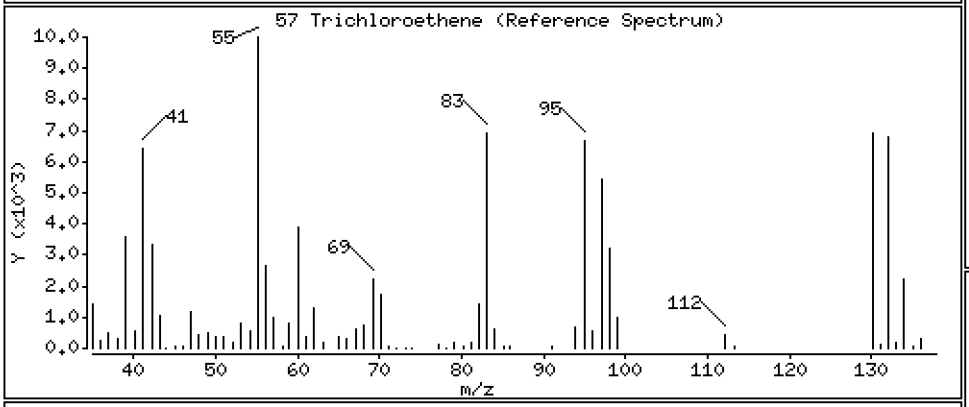
Purge Volume: 5.0 Operator: CJG

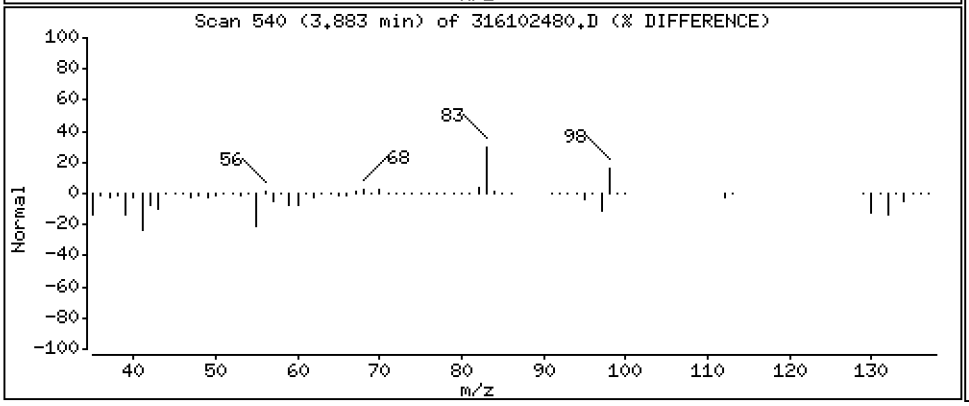
Column phase: DB-VRX Column diameter: 0.25

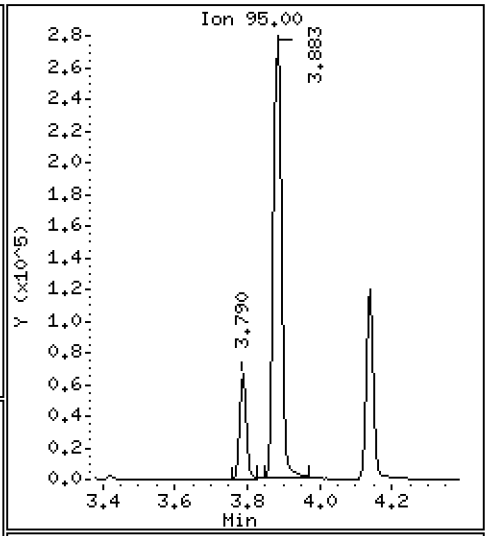
57 Trichloroethene Concentration: 43.8083 ug/L

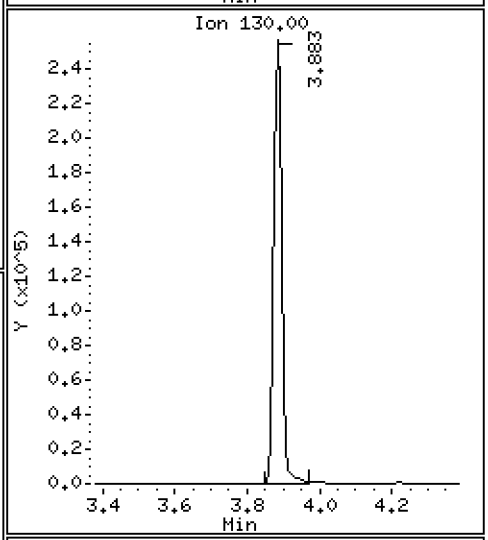


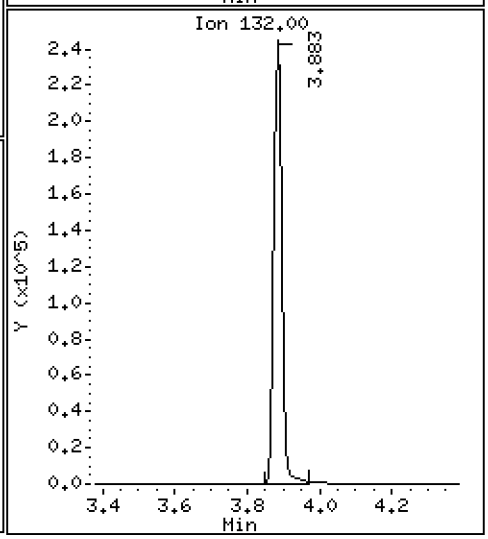












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 67

Date : 25-OCT-2016 09:17

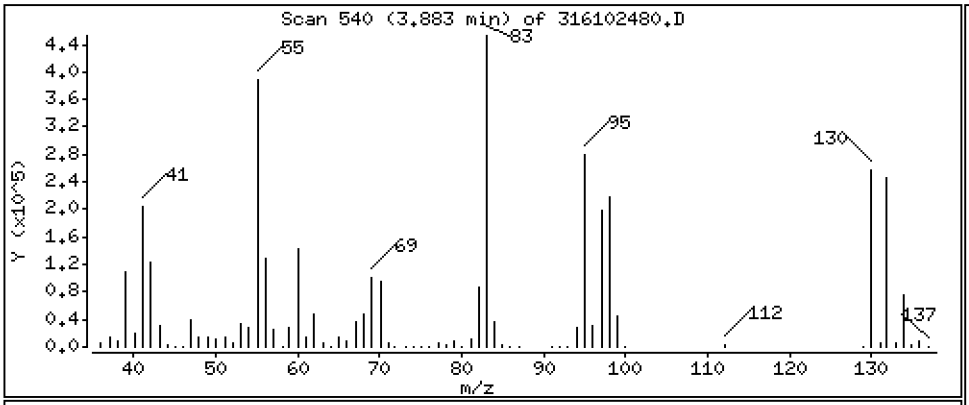
Client ID: Instrument: ms03.i

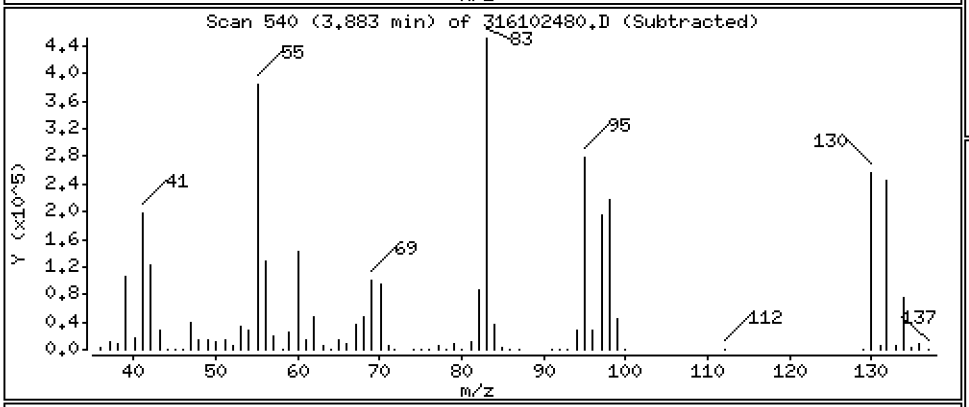
Sample Info: 1801;;1;2;4;;;

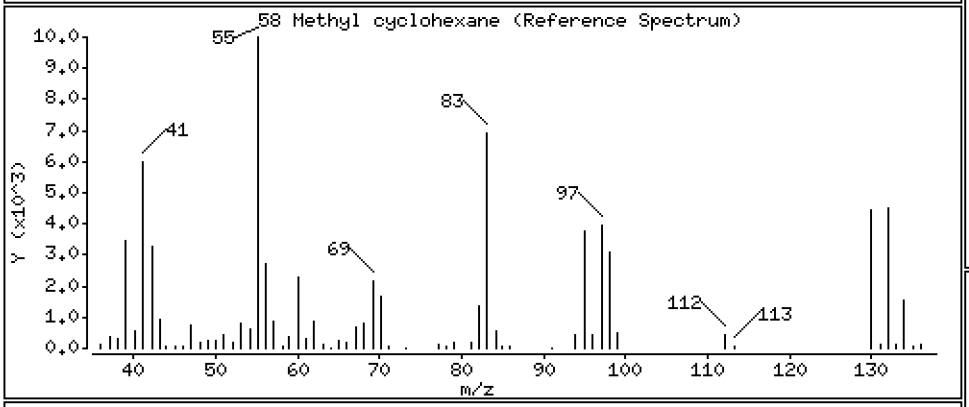
Purge Volume: 5.0 Operator: CJG

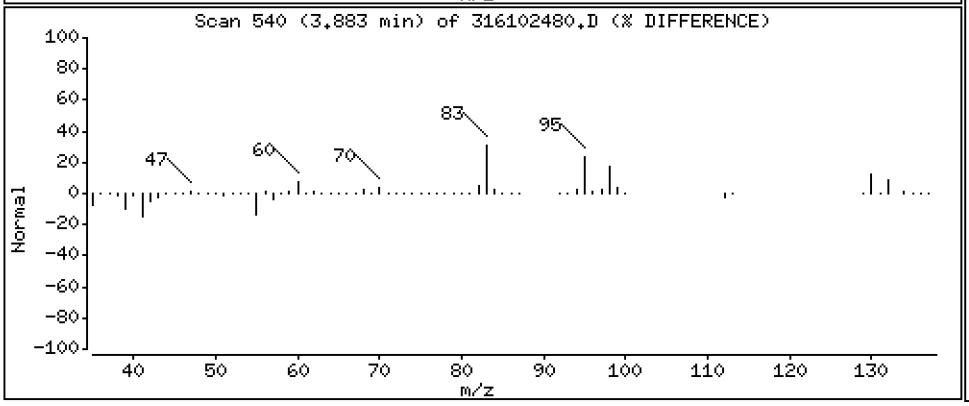
Column phase: DB-VRX Column diameter: 0.25

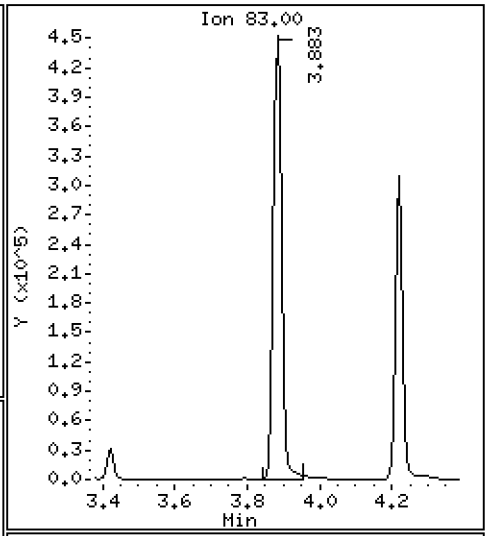
58 Methyl cyclohexane Concentration: 44.8020 ug/L

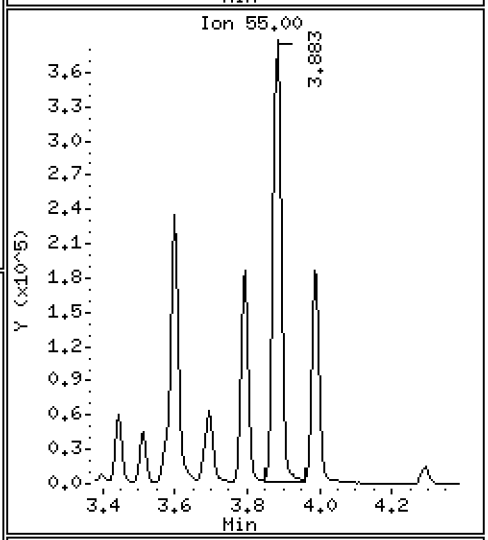


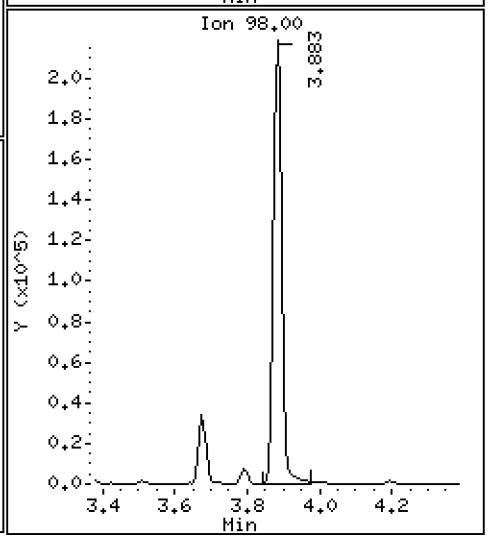












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 68

Date : 25-OCT-2016 09:17

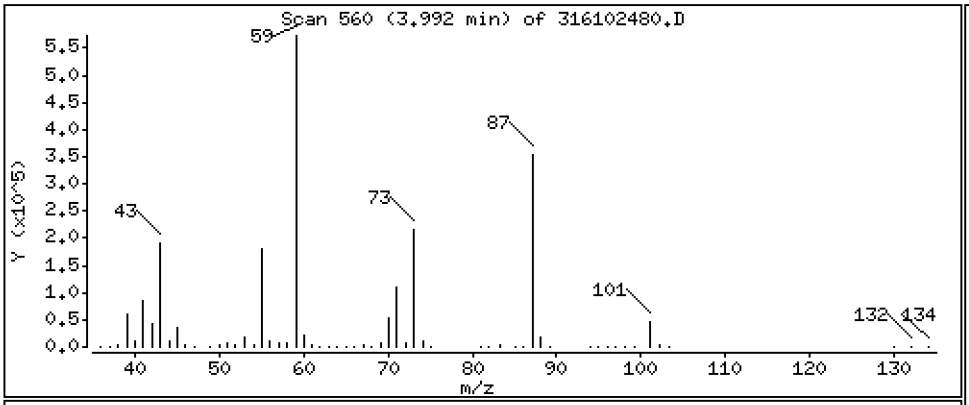
Client ID: Instrument: ms03.i

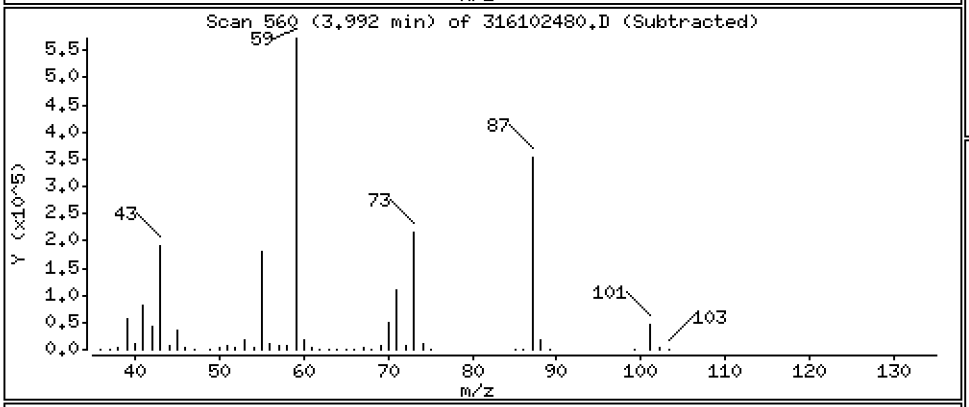
Sample Info: 1801;;1;2;4;;;

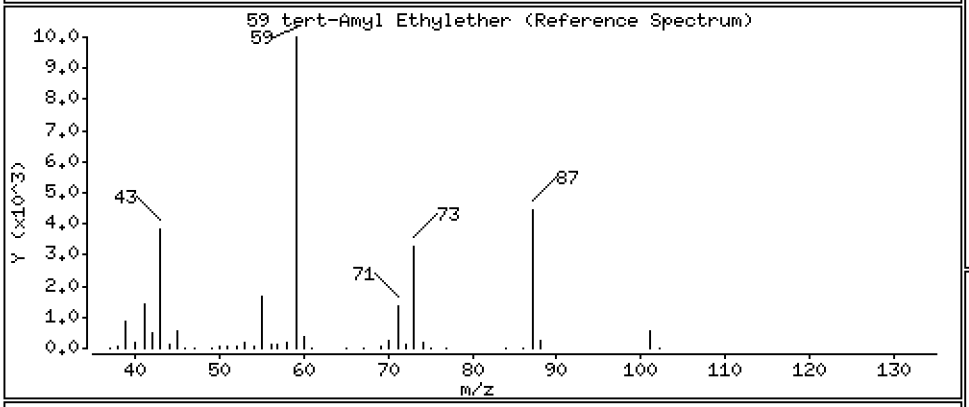
Purge Volume: 5.0 Operator: CJG

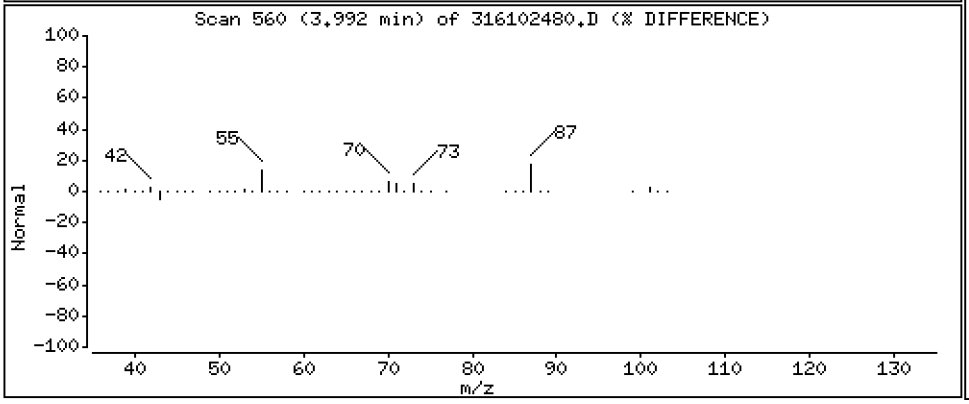
Column phase: DB-VRX Column diameter: 0.25

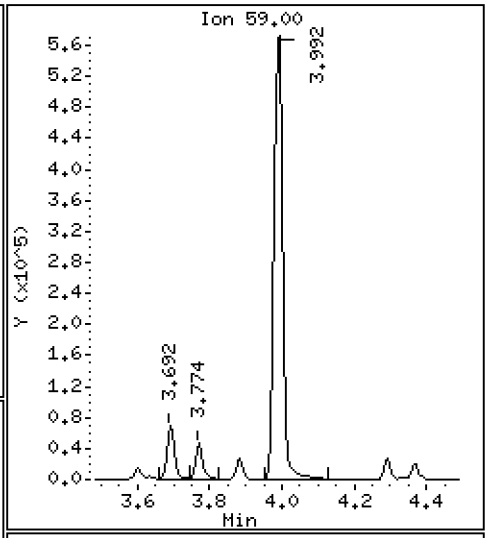
59 tert-Amyl Ethylether Concentration: 50.0091 ug/L

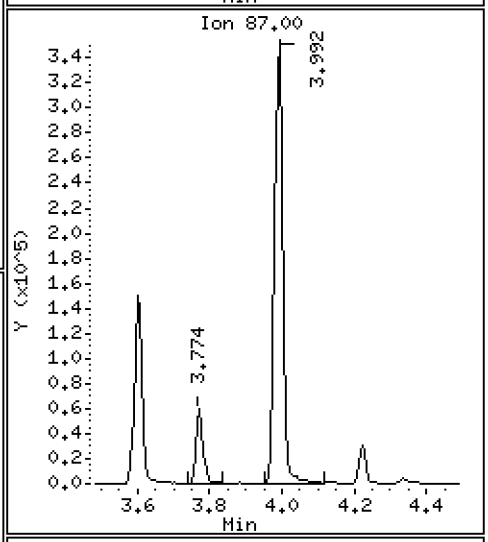


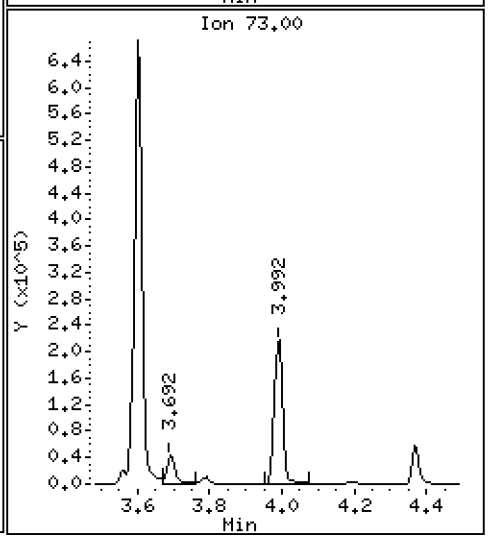












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 69

Date : 25-OCT-2016 09:17

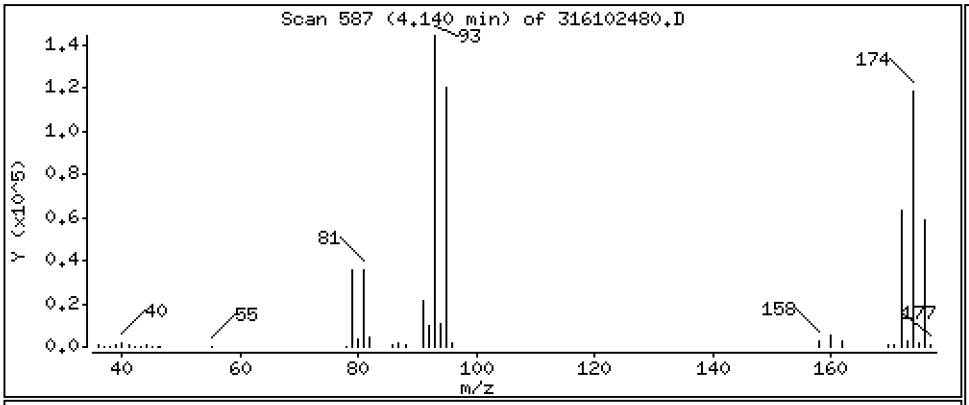
Client ID: Instrument: ms03.i

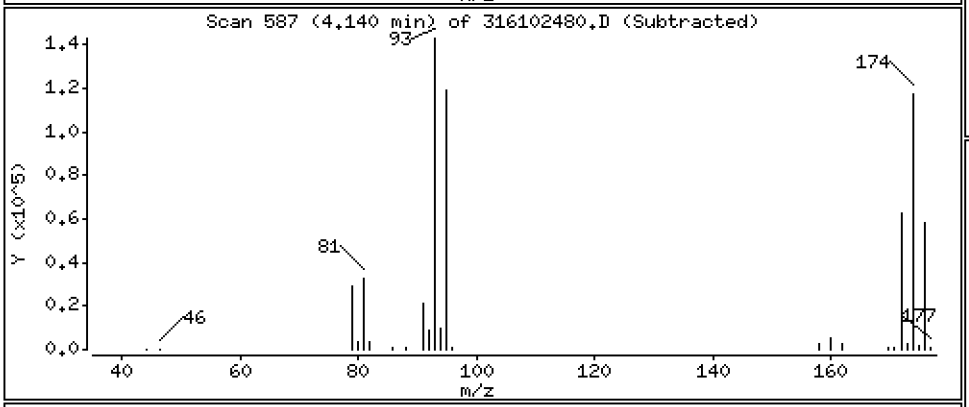
Sample Info: 1801;;1;2;4;;;

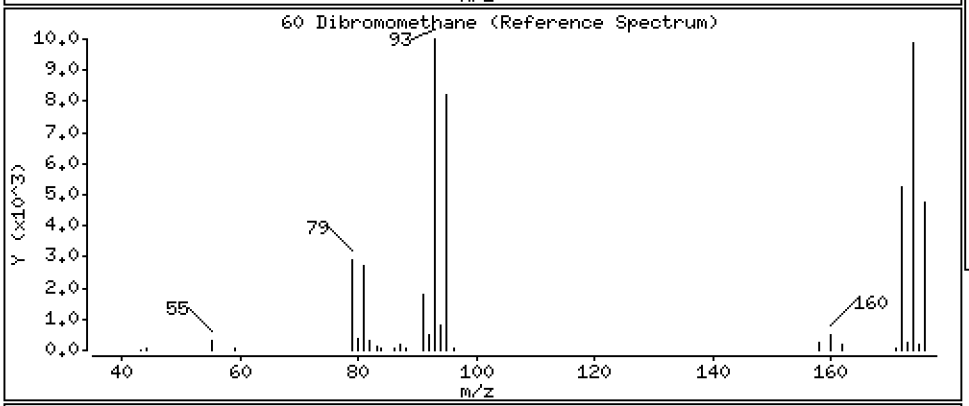
Purge Volume: 5.0 Operator: CJG

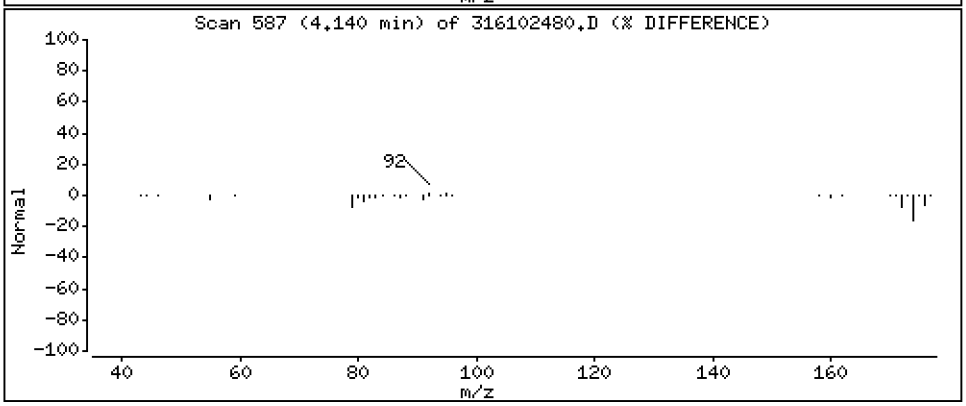
Column phase: DB-VRX Column diameter: 0.25

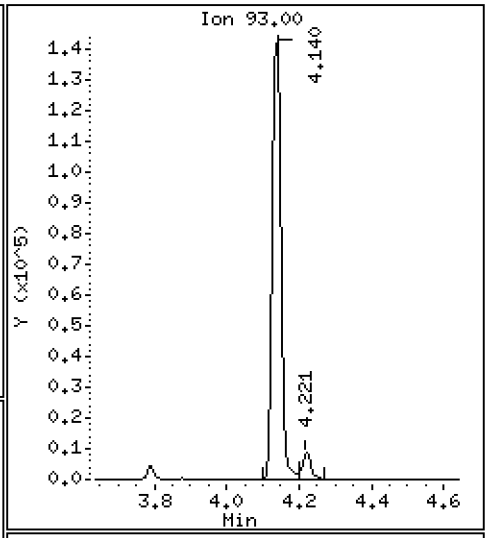
60 Dibromomethane Concentration: 46.6302 ug/L

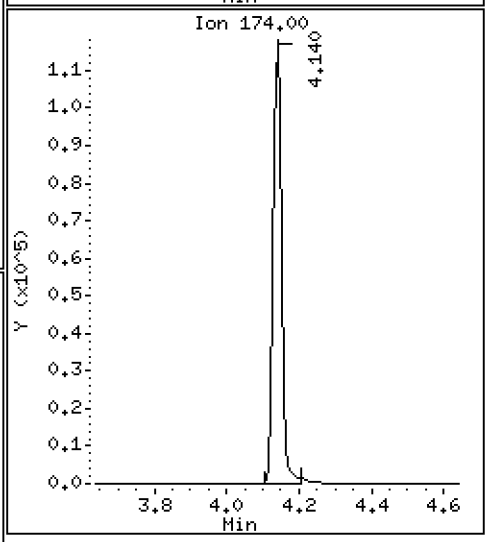












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 70

Date : 25-OCT-2016 09:17

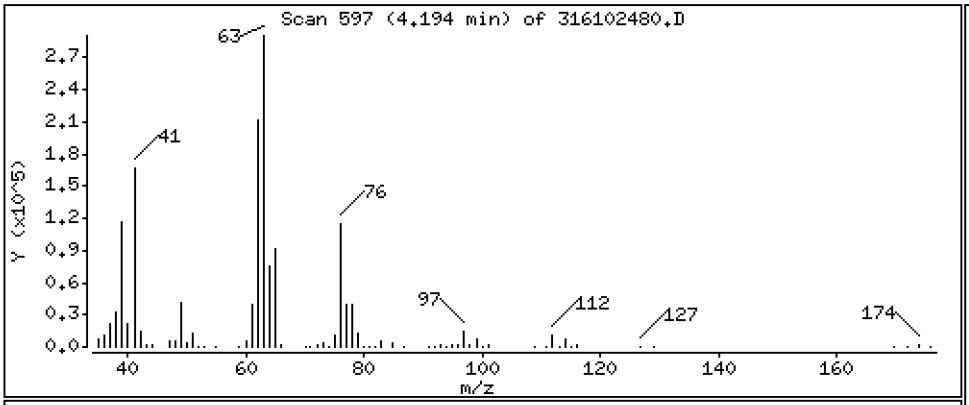
Client ID: Instrument: ms03.i

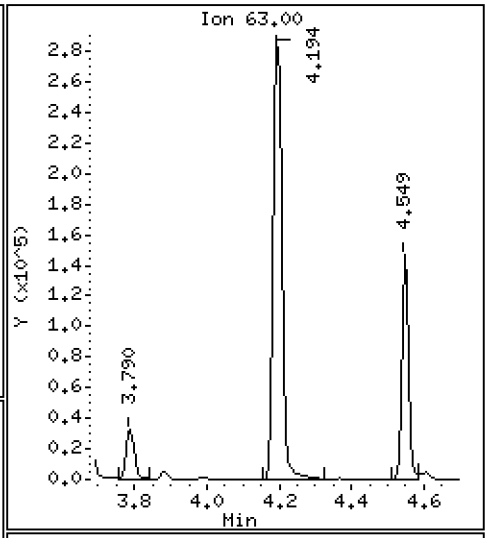
Sample Info: 1801;;1;2;4;;;

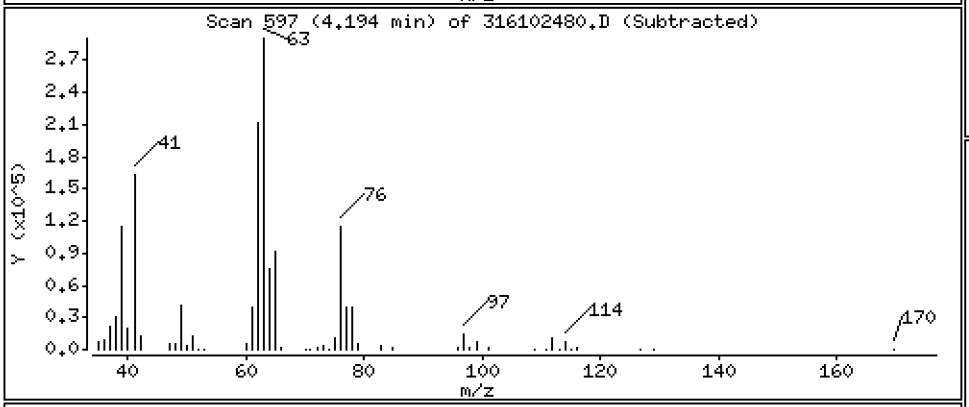
Purge Volume: 5.0 Operator: CJG

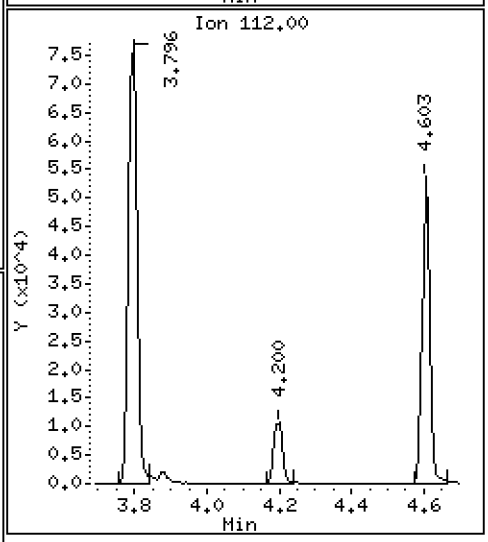
Column phase: DB-VRX Column diameter: 0.25

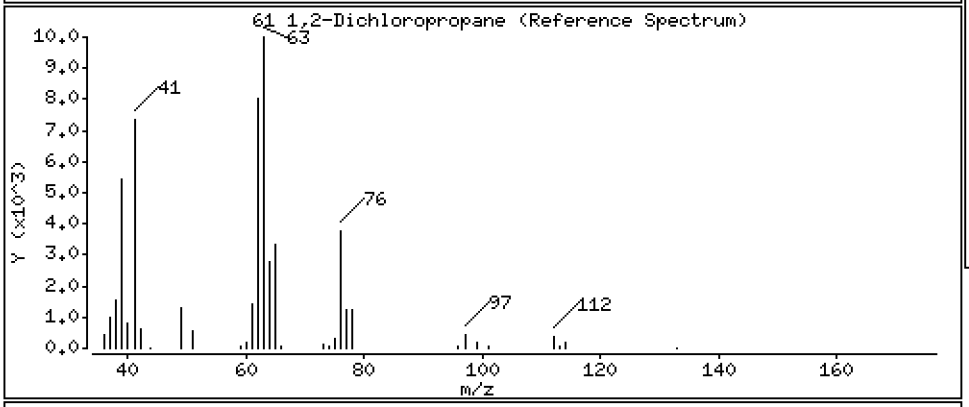
61 1,2-Dichloropropane Concentration: 47.4903 ug/L

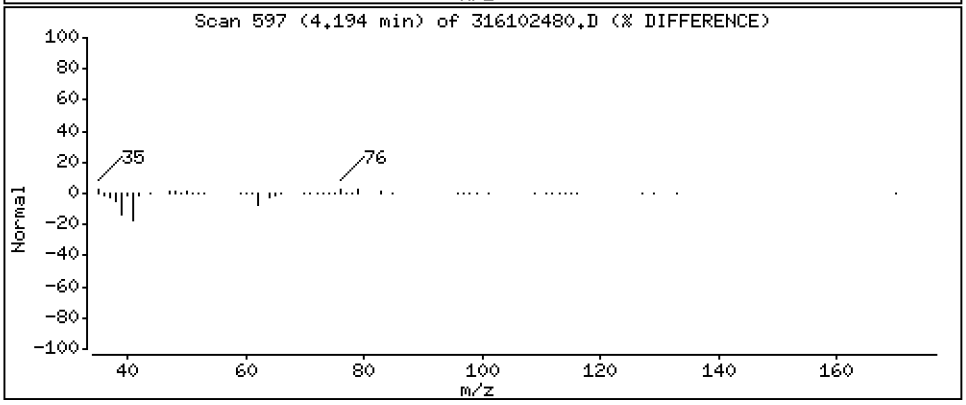












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 71

Date : 25-OCT-2016 09:17

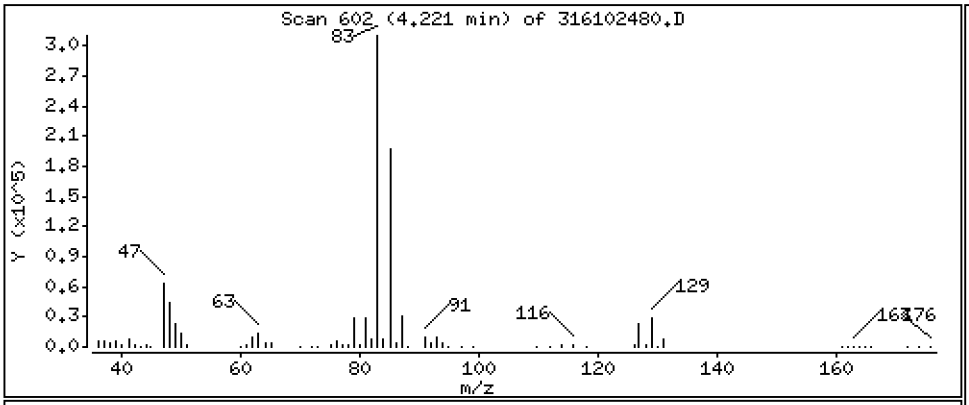
Client ID: Instrument: ms03.i

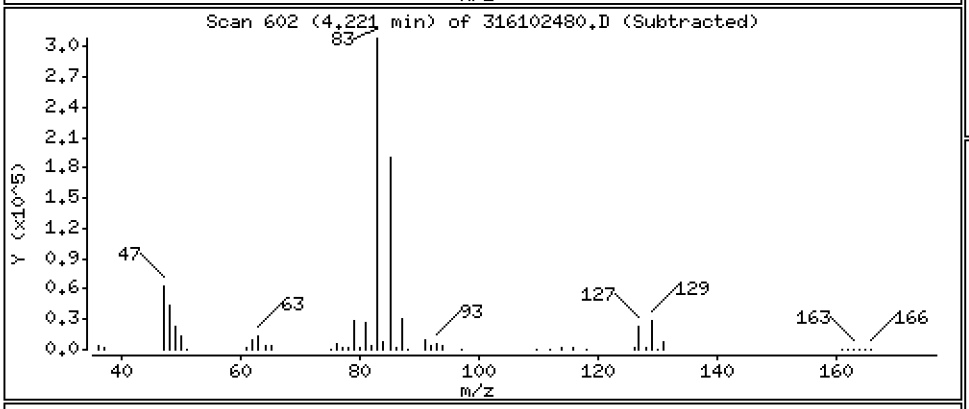
Sample Info: 1801;;1;2;4;;;

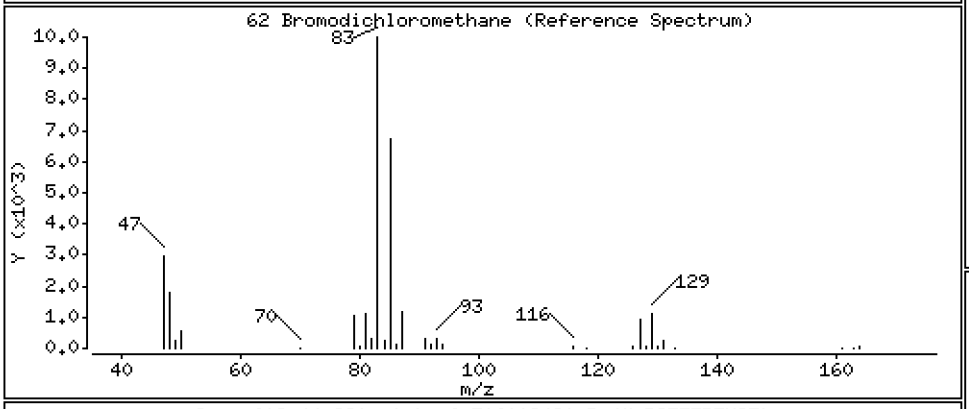
Purge Volume: 5.0 Operator: CJG

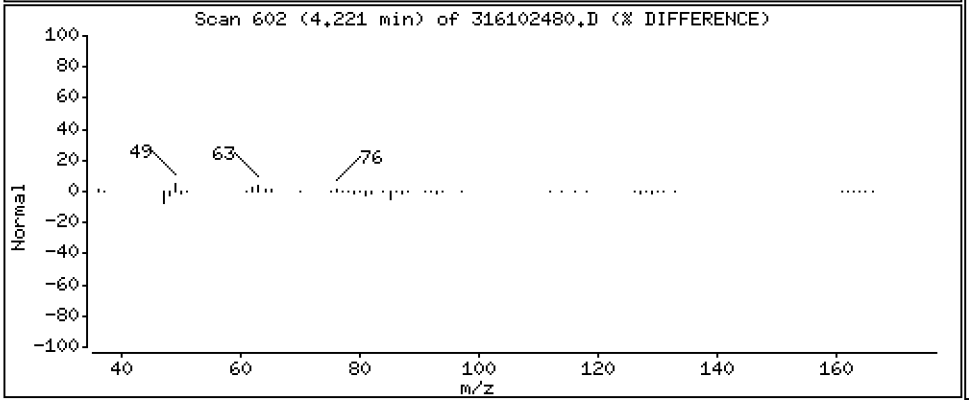
Column phase: DB-VRX Column diameter: 0.25

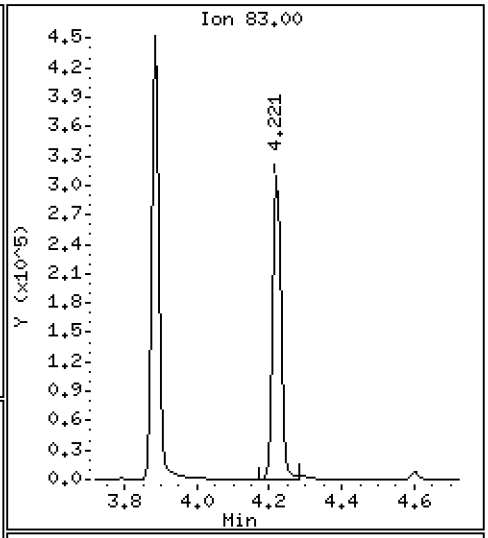
62 Bromodichloromethane Concentration: 47.9239 ug/L

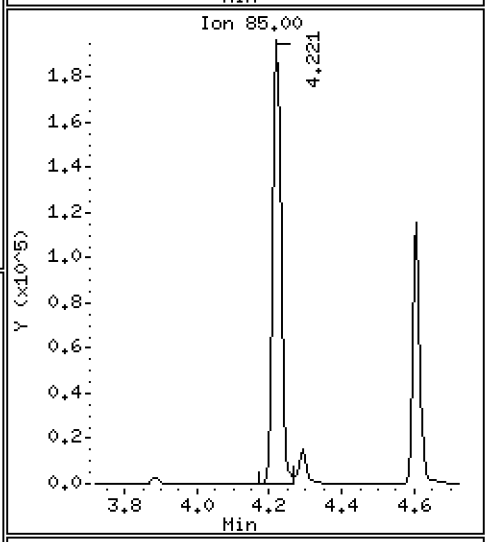


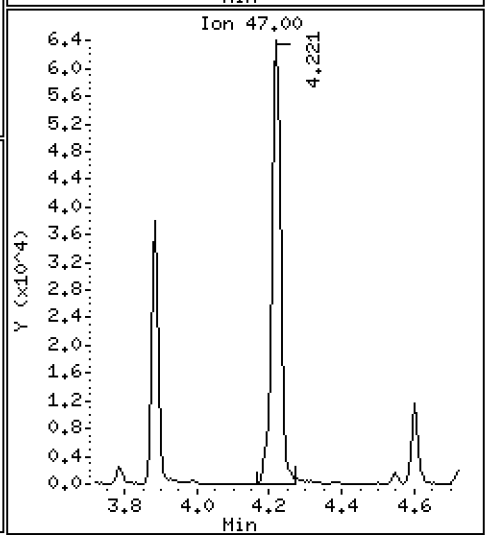












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 72

Date : 25-OCT-2016 09:17

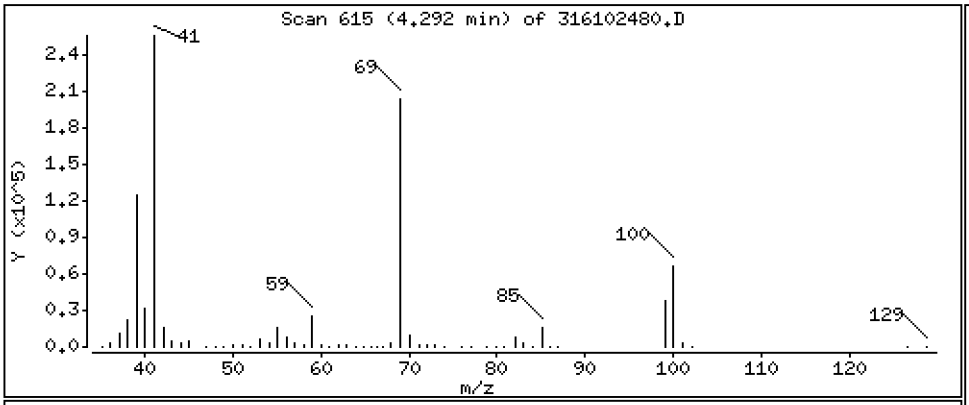
Client ID: Instrument: ms03.i

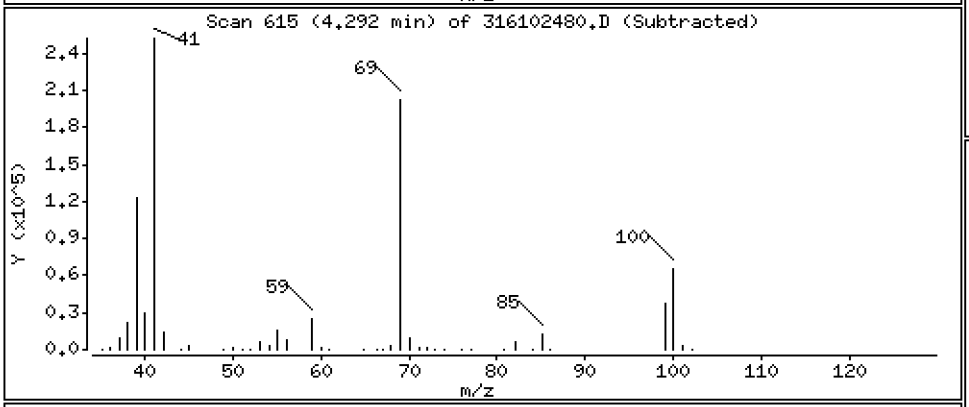
Sample Info: 1801;;1;2;4;;;

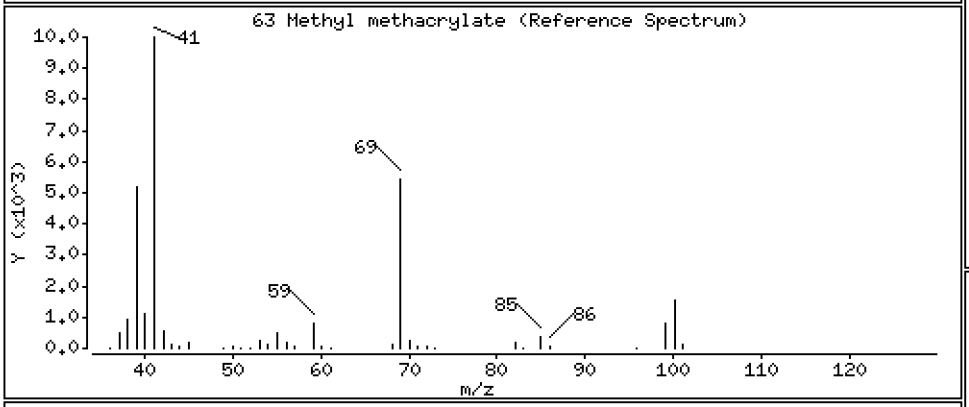
Purge Volume: 5.0 Operator: CJG

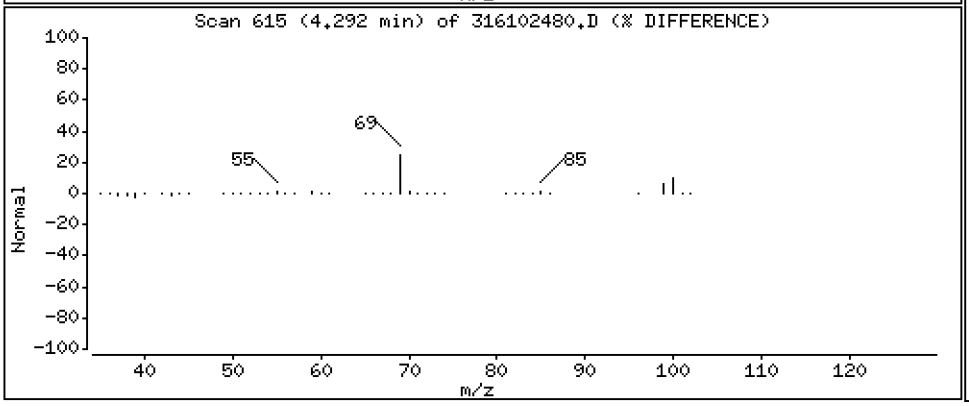
Column phase: DB-VRX Column diameter: 0.25

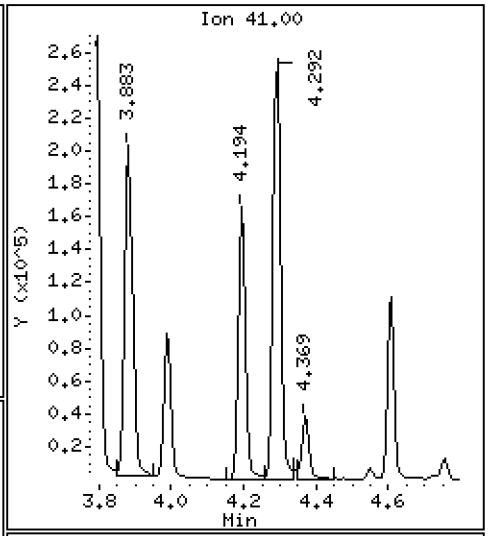
63 Methyl methacrylate Concentration: 52.7107 ug/L

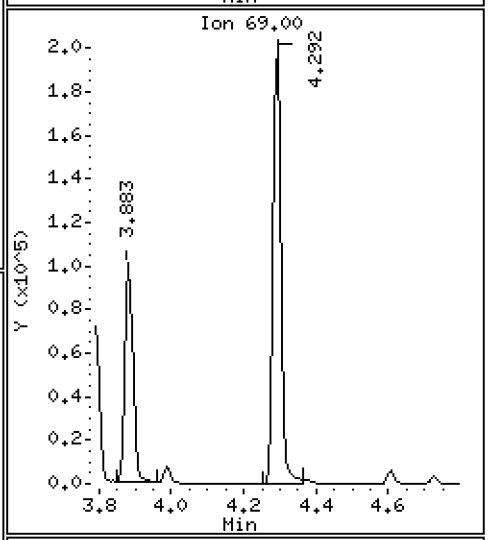


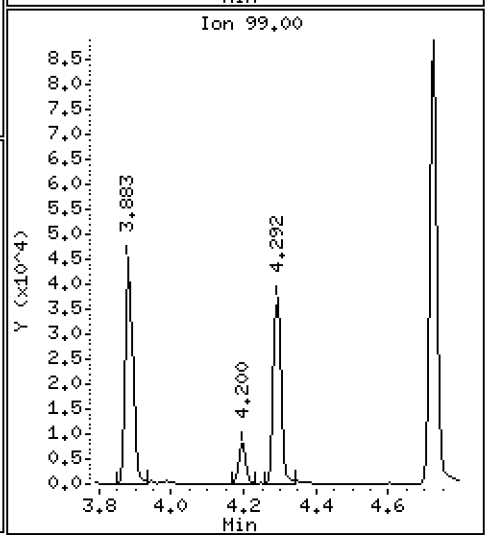












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 73

Date : 25-OCT-2016 09:17

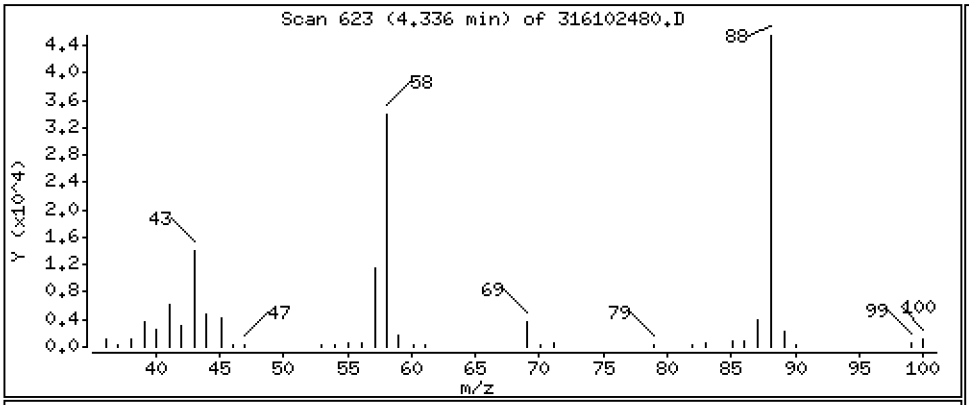
Client ID: Instrument: ms03.i

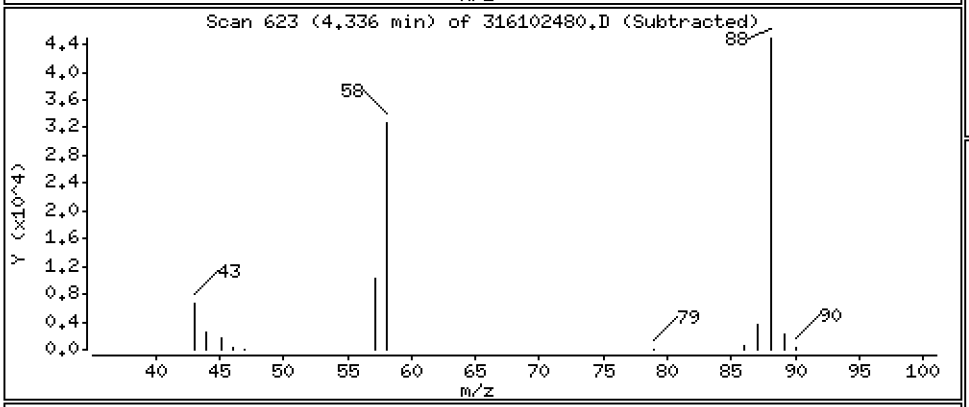
Sample Info: 1801;;1;2;4;;;

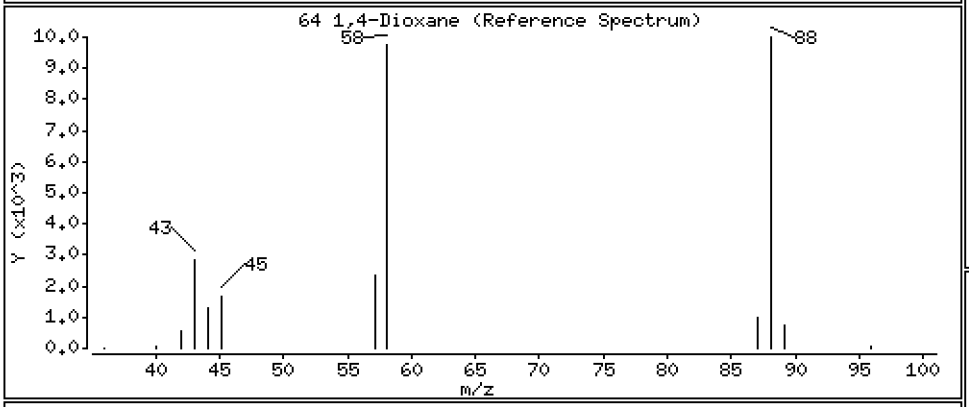
Purge Volume: 5.0 Operator: CJG

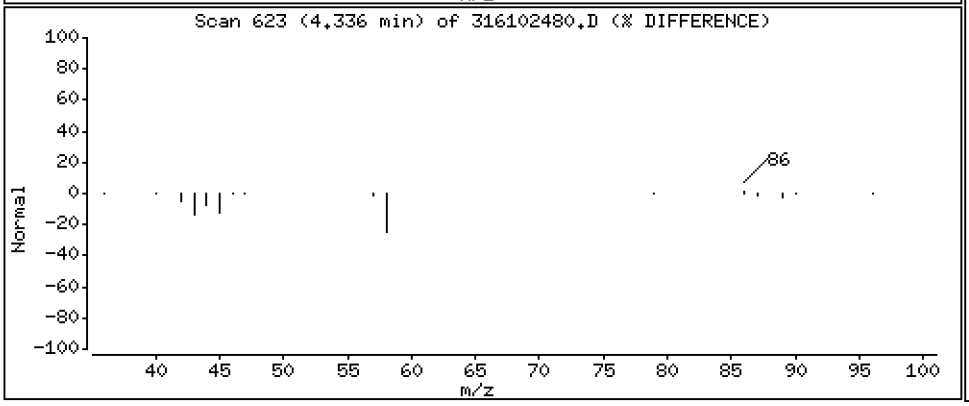
Column phase: DB-VRX Column diameter: 0.25

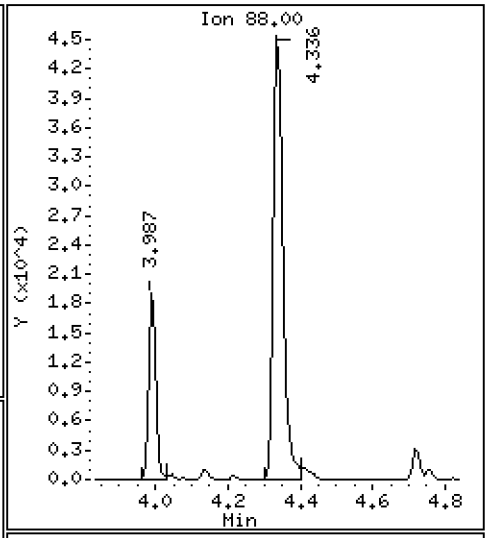
64 1,4-Dioxane Concentration: 2517.97 ug/L

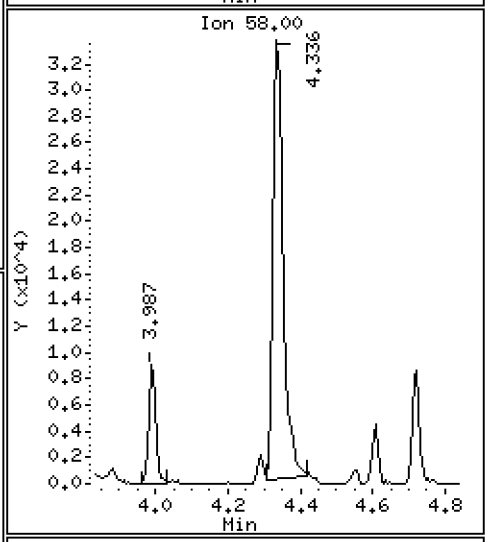


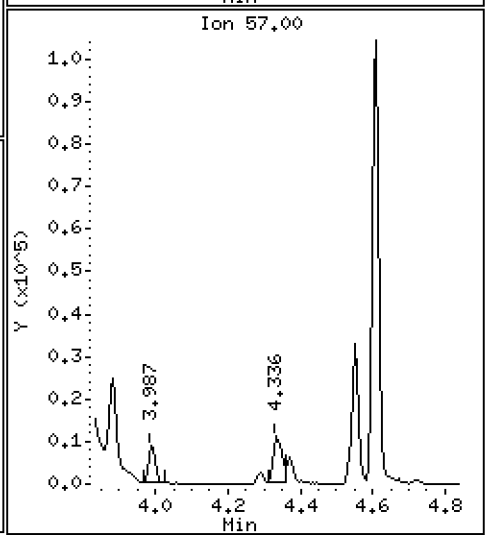












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 74

Date : 25-OCT-2016 09:17

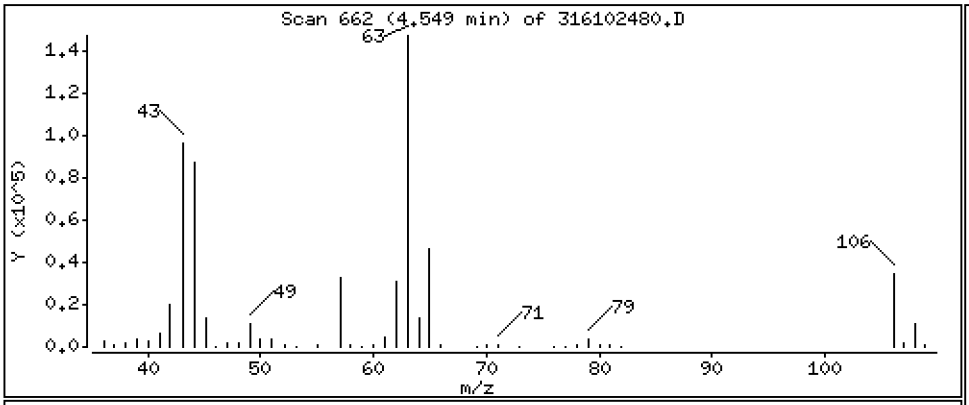
Client ID: Instrument: ms03.i

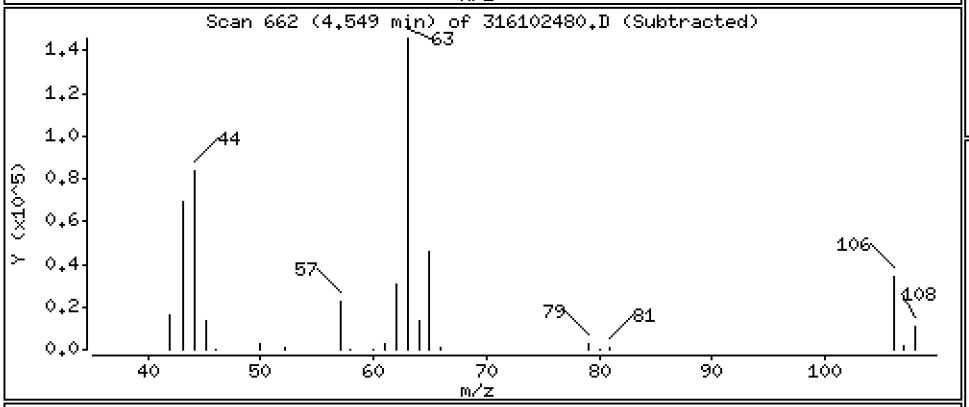
Sample Info: 1801;;1;2;4;;;

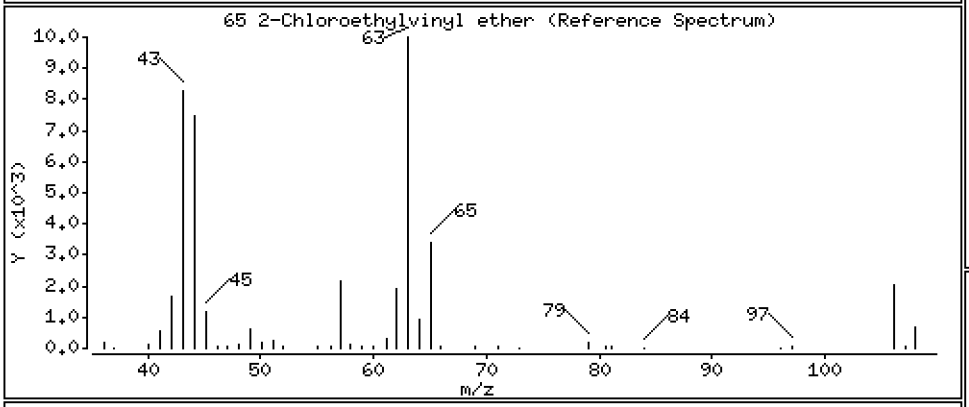
Purge Volume: 5.0 Operator: CJG

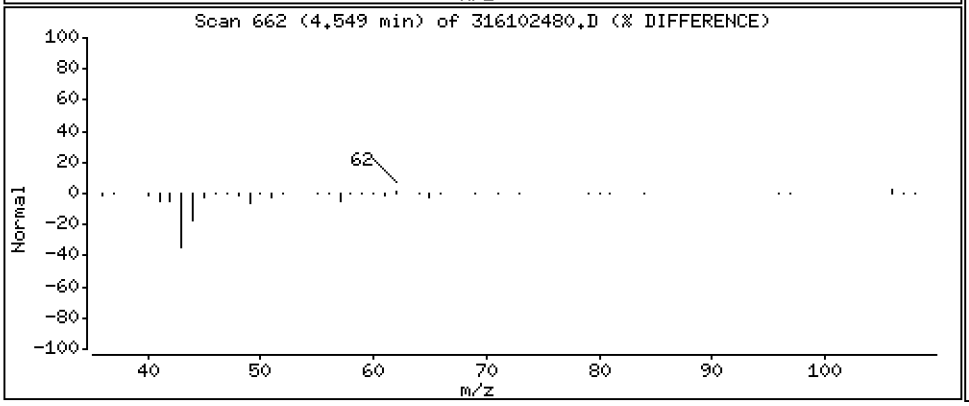
Column phase: DB-VRX Column diameter: 0.25

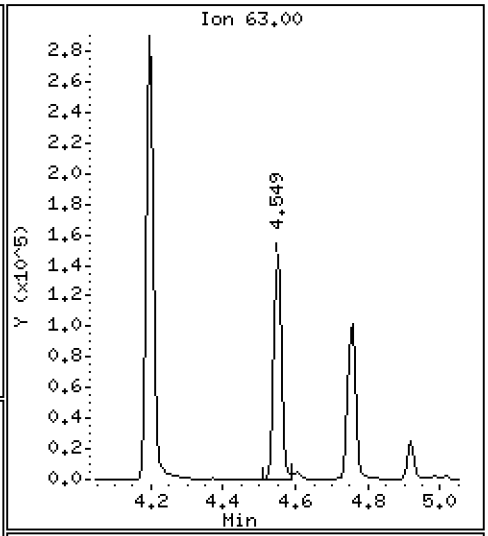
65 2-Chloroethylvinyl ether Concentration: 43.3983 ug/L

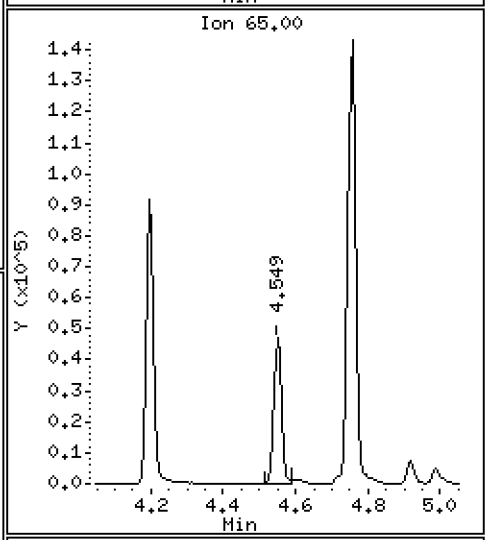


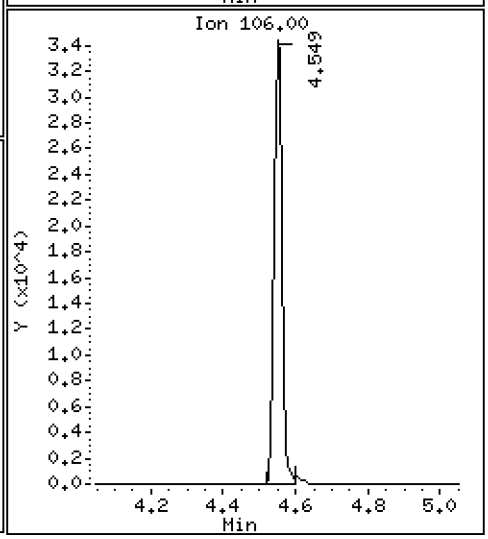












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 75

Date : 25-OCT-2016 09:17

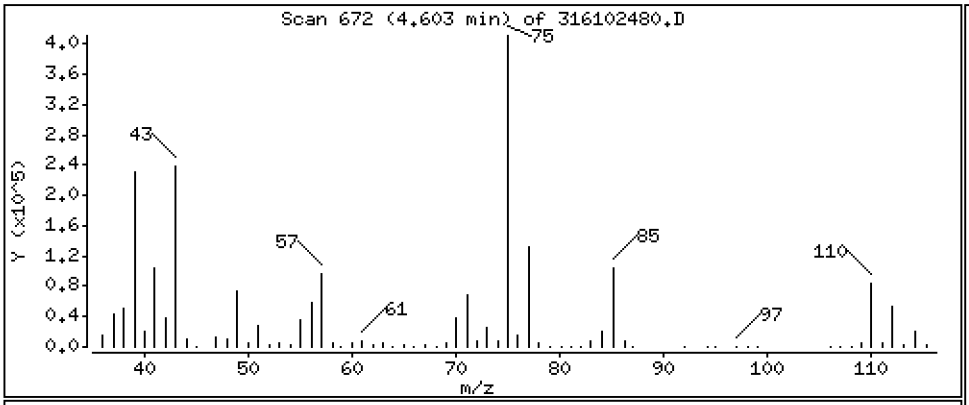
Client ID: Instrument: ms03.i

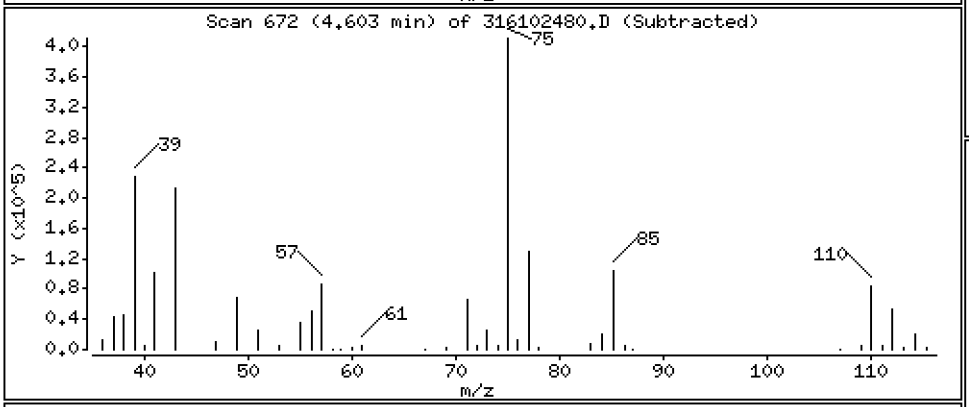
Sample Info: 1801;;1;2;4;;;

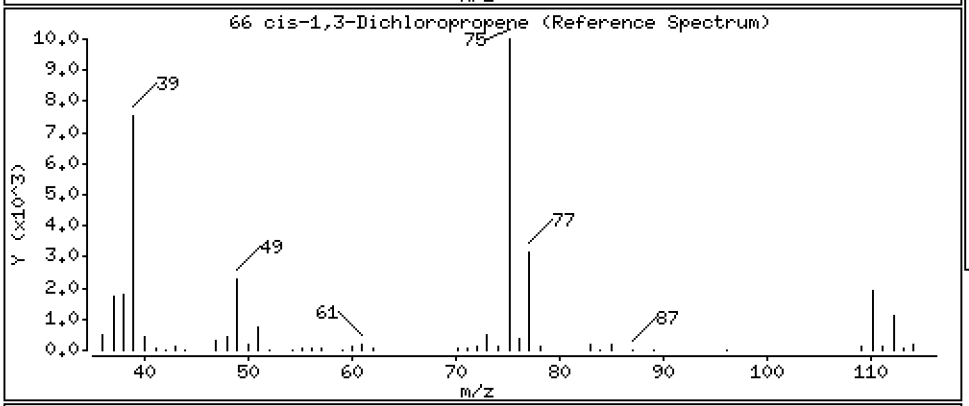
Purge Volume: 5.0 Operator: CJG

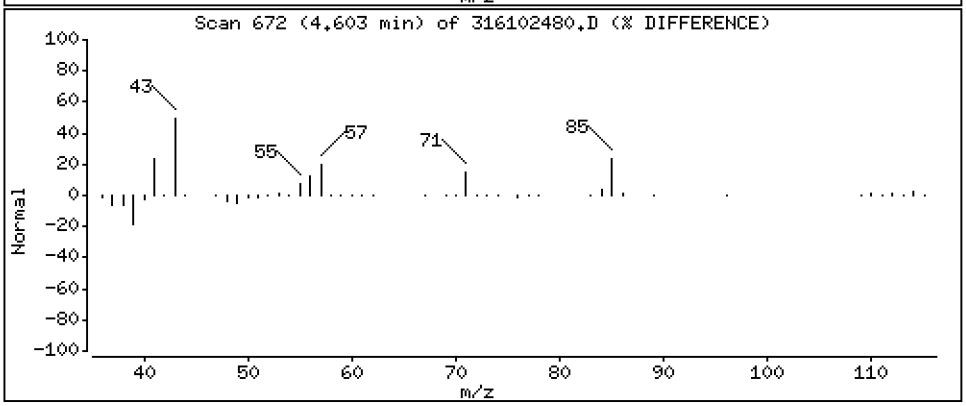
Column phase: DB-VRX Column diameter: 0.25

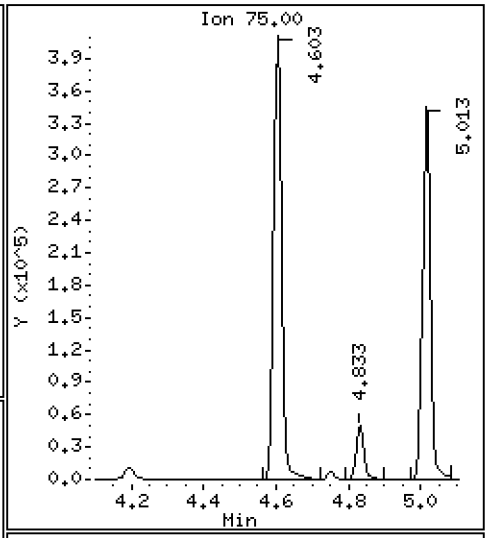
66 cis-1,3-Dichloropropene Concentration: 47.4055 ug/L

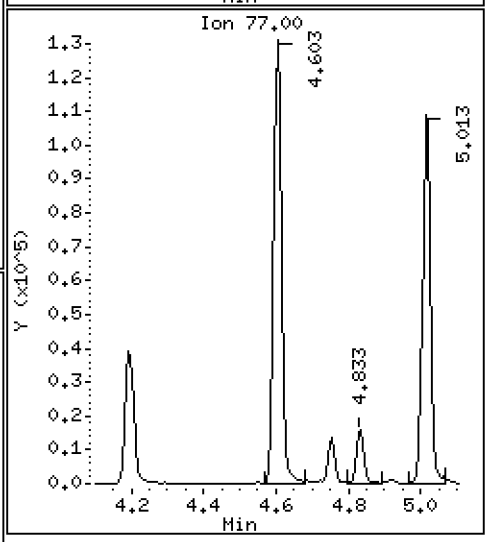












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 76

Date : 25-OCT-2016 09:17

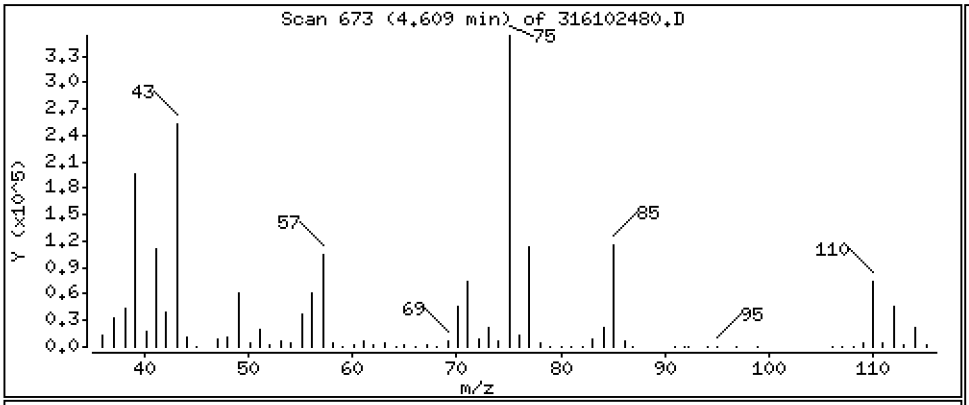
Client ID: Instrument: ms03.i

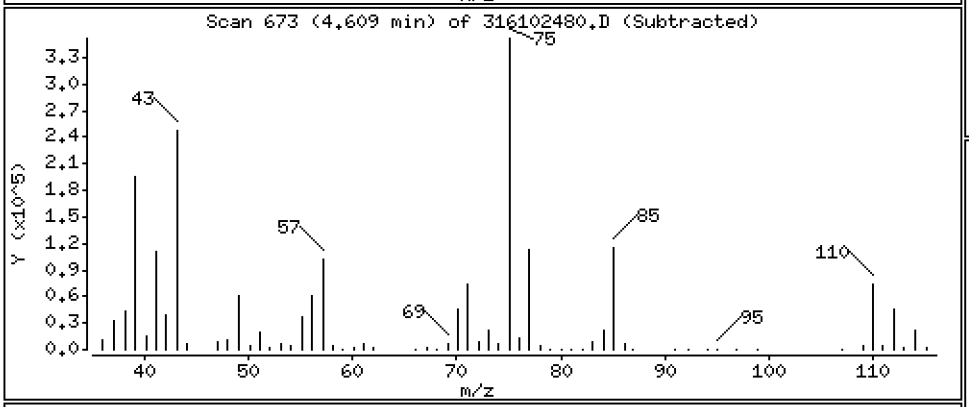
Sample Info: 1801;;1;2;4;;;

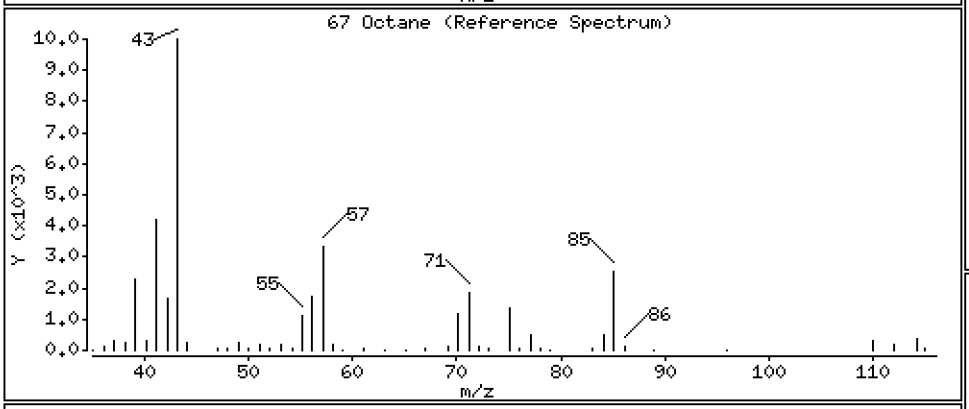
Purge Volume: 5.0 Operator: CJG

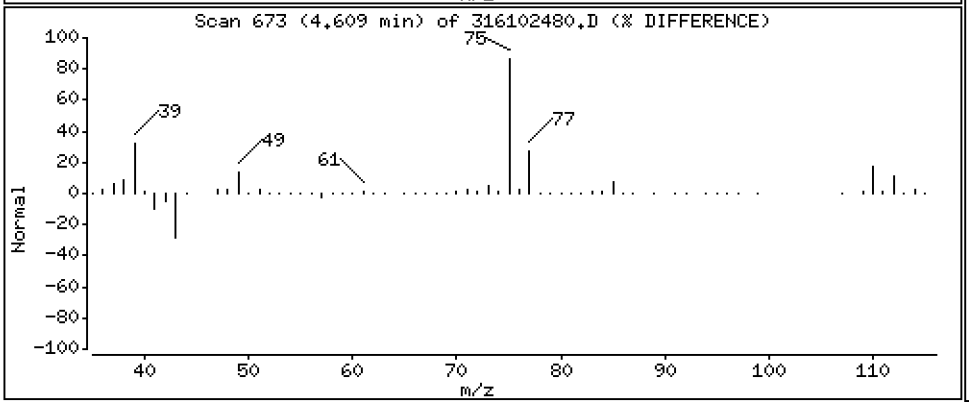
Column phase: DB-VRX Column diameter: 0.25

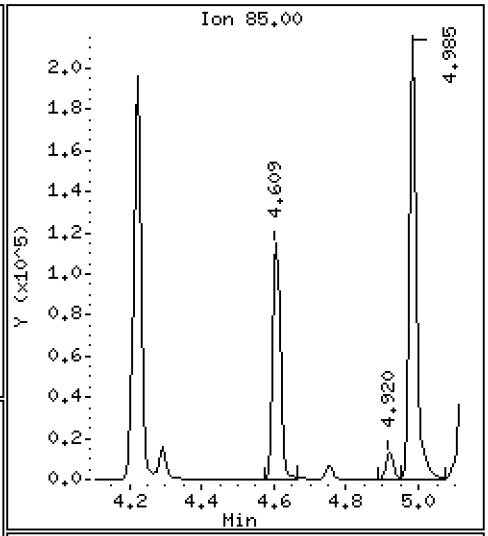
67 Octane Concentration: 42.6346 ug/L

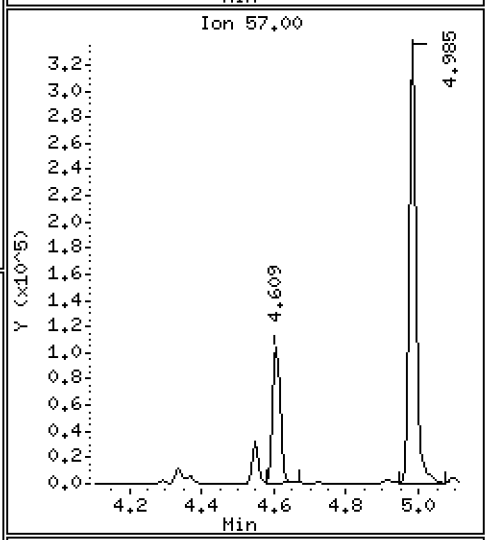


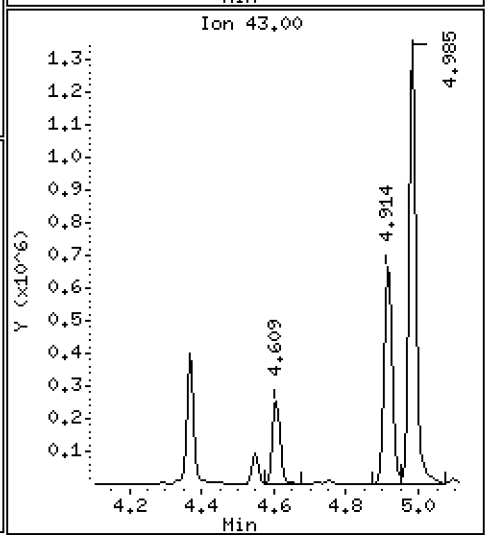












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 77

Date : 25-OCT-2016 09:17

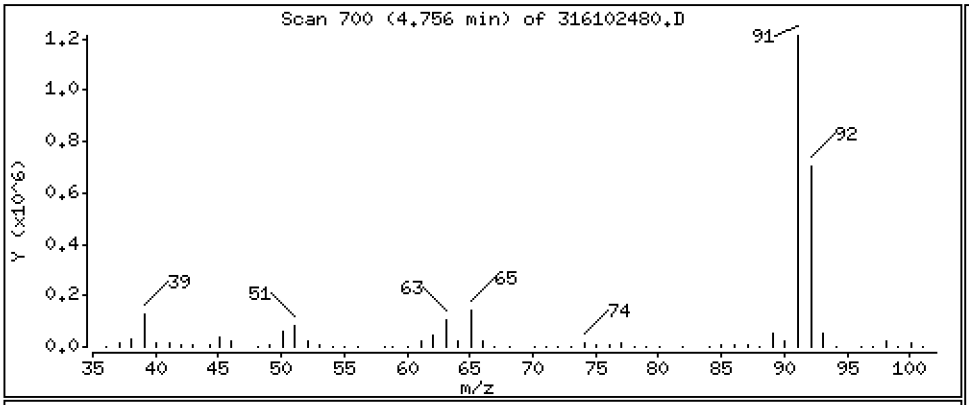
Client ID: Instrument: ms03.i

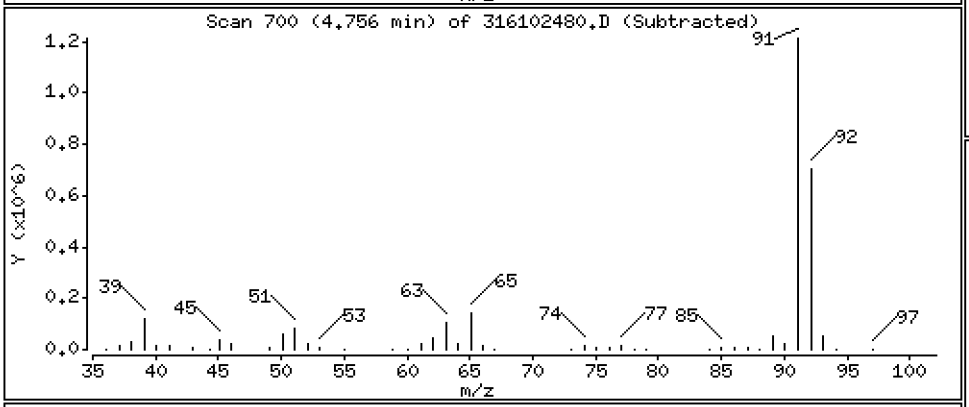
Sample Info: 1801;;1;2;4;;;

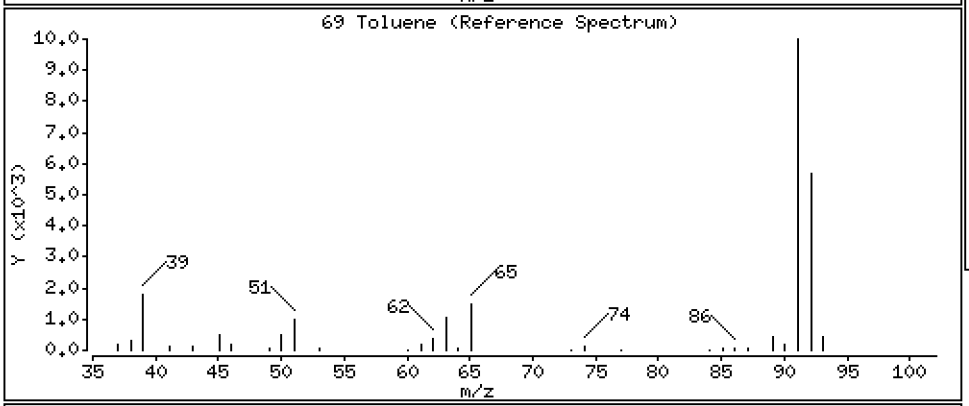
Purge Volume: 5.0 Operator: CJG

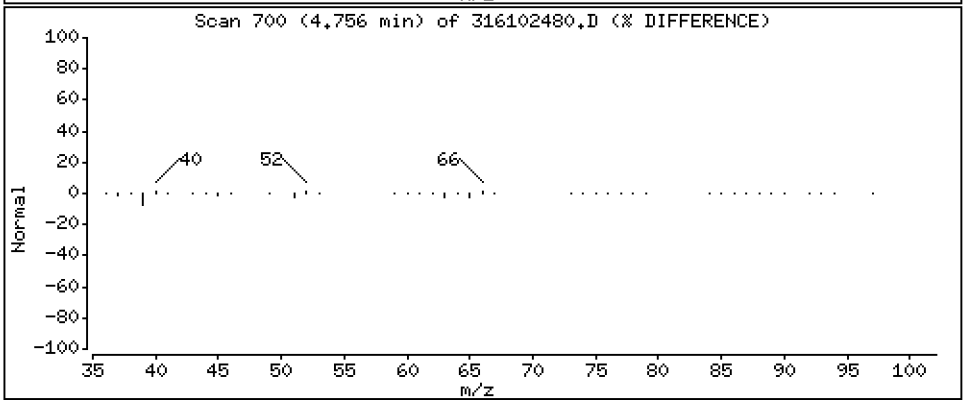
Column phase: DB-VRX Column diameter: 0.25

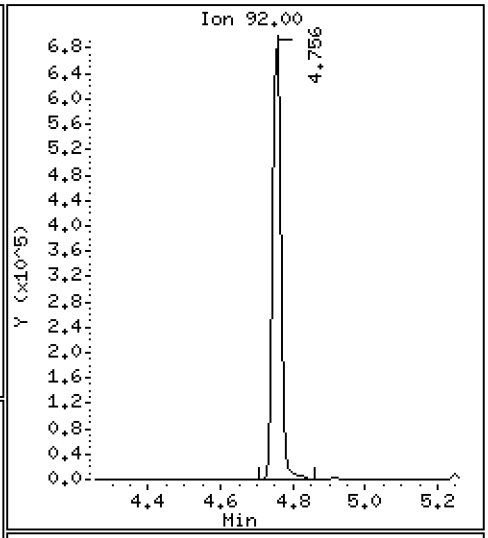
69 Toluene Concentration: 46.3081 ug/L

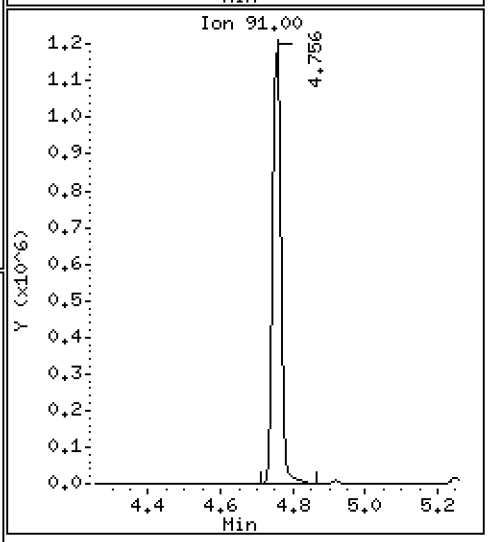












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 78

Date : 25-OCT-2016 09:17

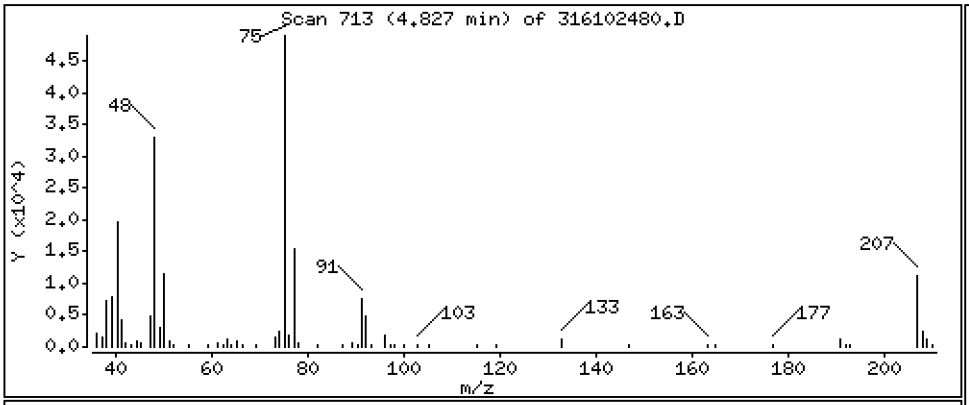
Client ID: Instrument: ms03.i

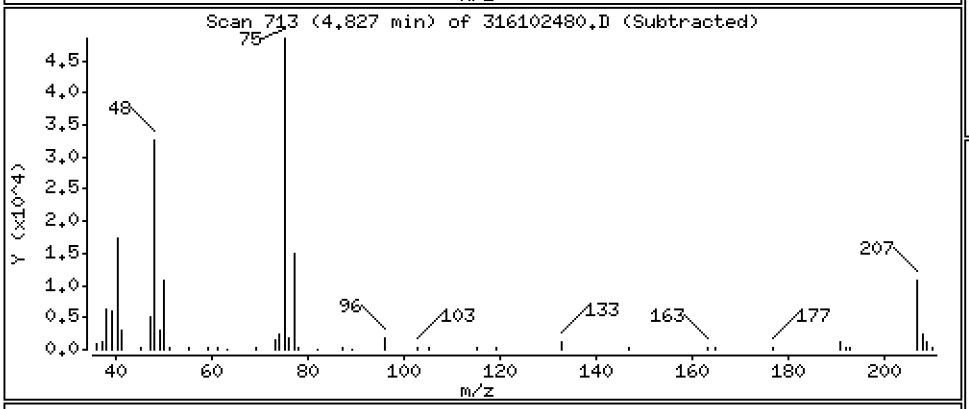
Sample Info: 1801;;1;2;4;;;

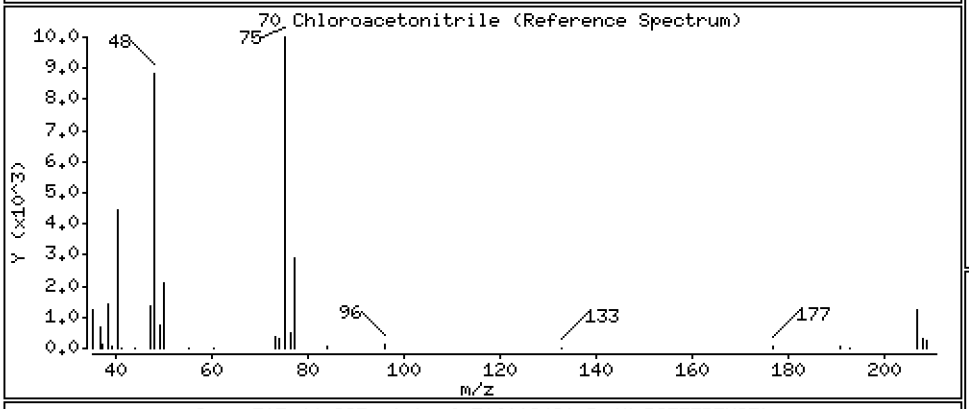
Purge Volume: 5.0 Operator: CJG

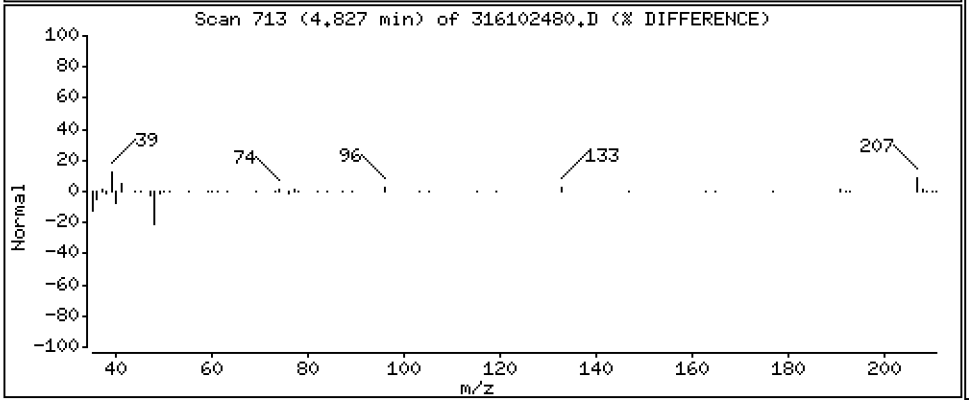
Column phase: DB-VRX Column diameter: 0.25

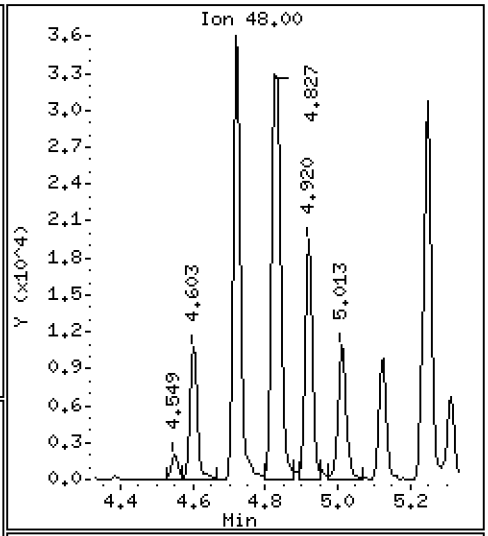
70 Chloroacetonitrile Concentration: 268.693 ug/L

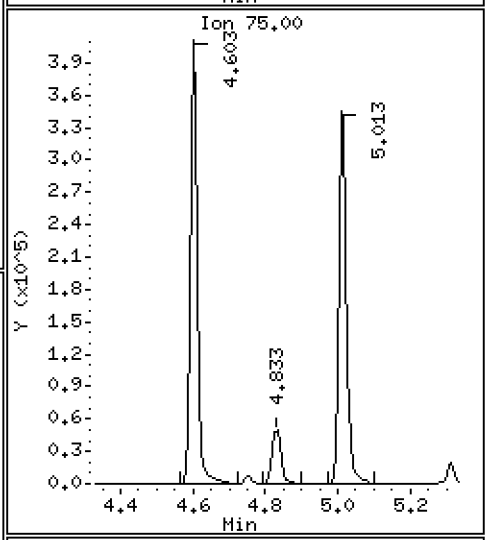


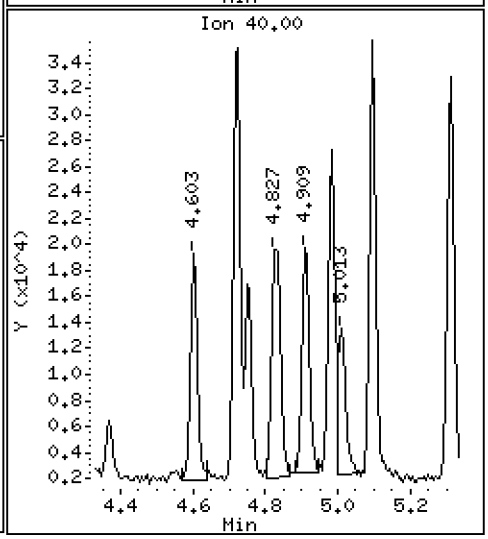












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 79

Date : 25-OCT-2016 09:17

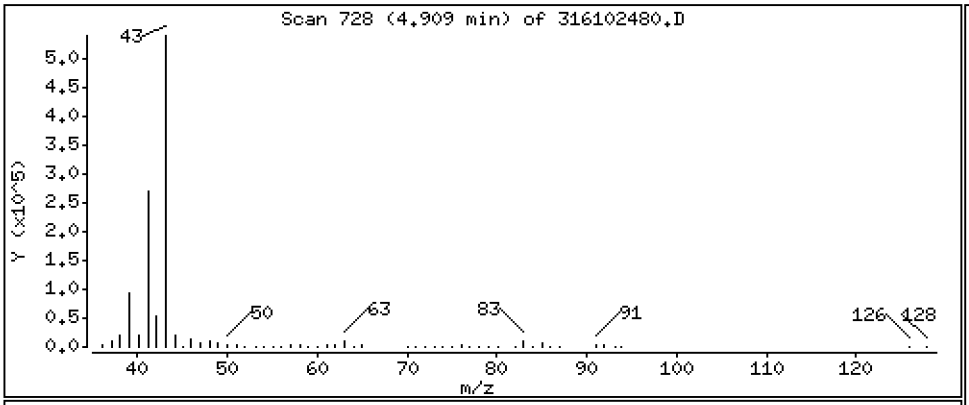
Client ID: Instrument: ms03.i

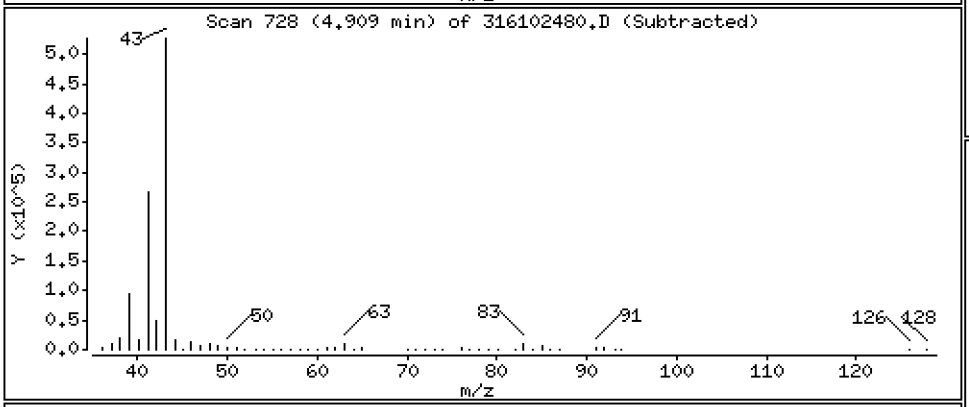
Sample Info: 1801;;1;2;4;;;

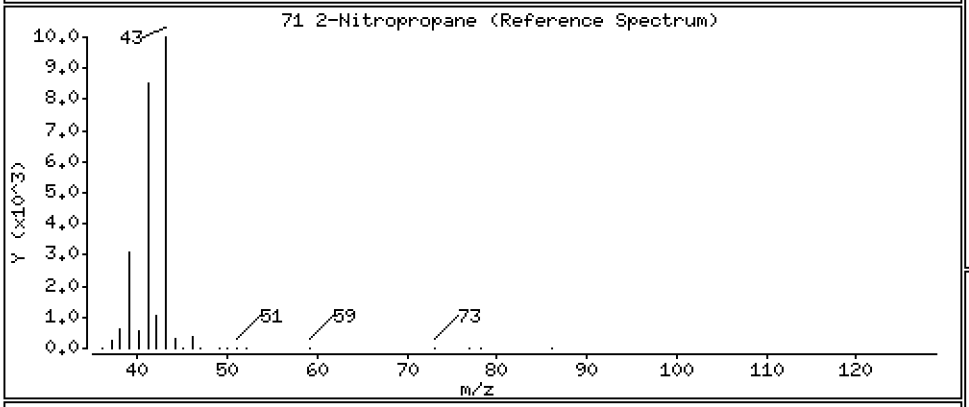
Purge Volume: 5.0 Operator: CJG

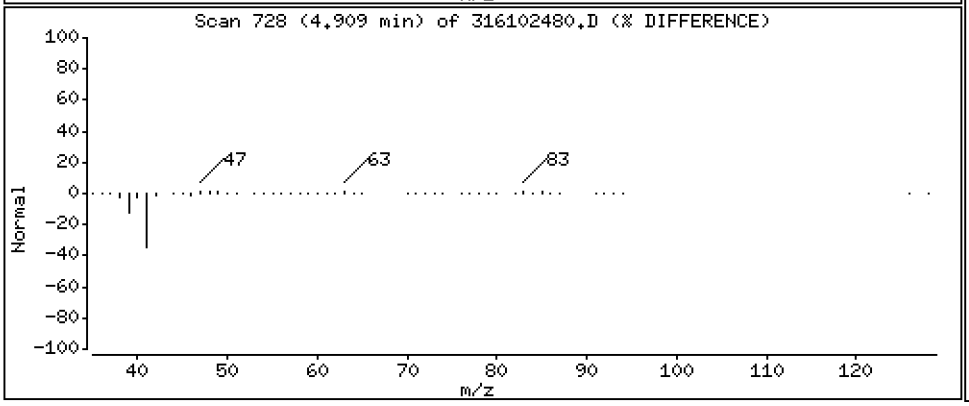
Column phase: DB-VRX Column diameter: 0.25

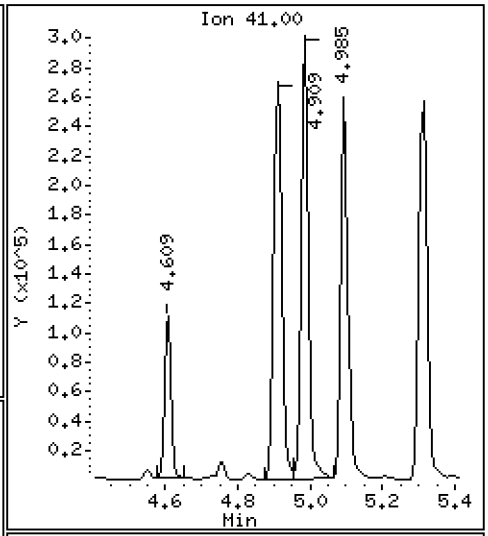
71 2-Nitropropane Concentration: 247.303 ug/L

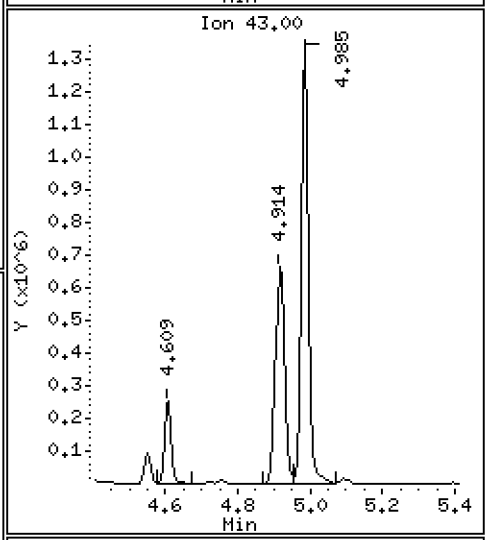


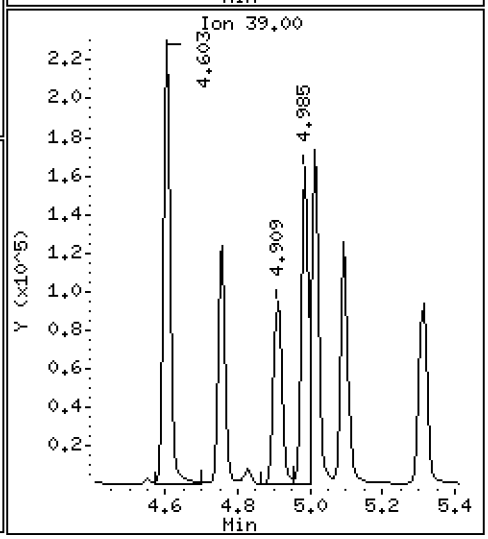












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 80

Date : 25-OCT-2016 09:17

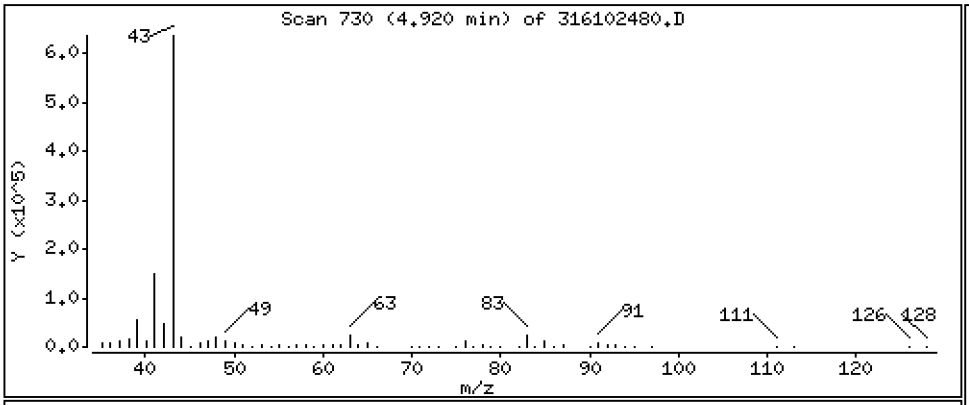
Client ID: Instrument: ms03.i

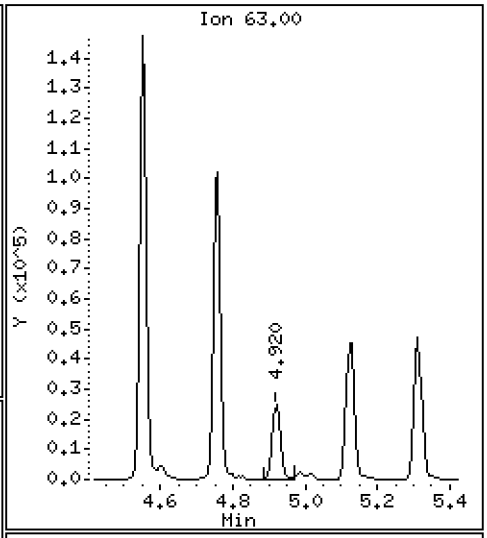
Sample Info: 1801;;1;2;4;;;

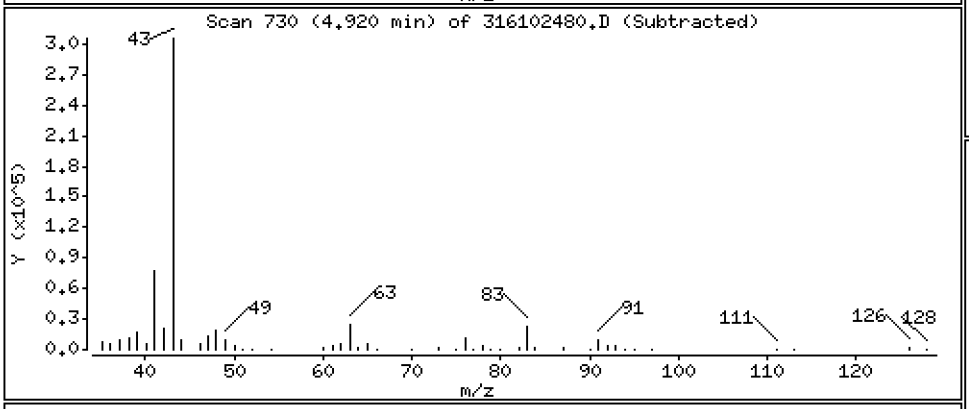
Purge Volume: 5.0 Operator: CJG

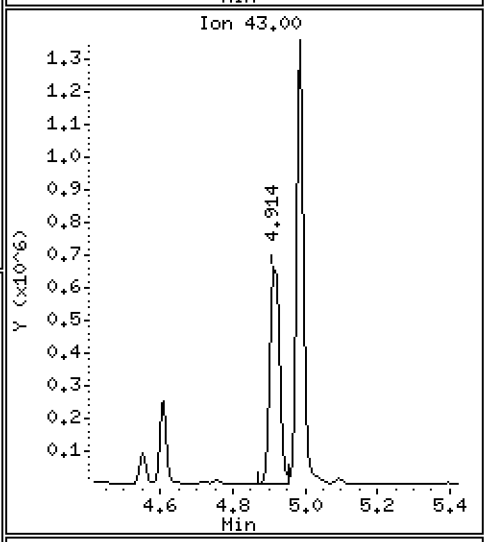
Column phase: DB-VRX Column diameter: 0.25

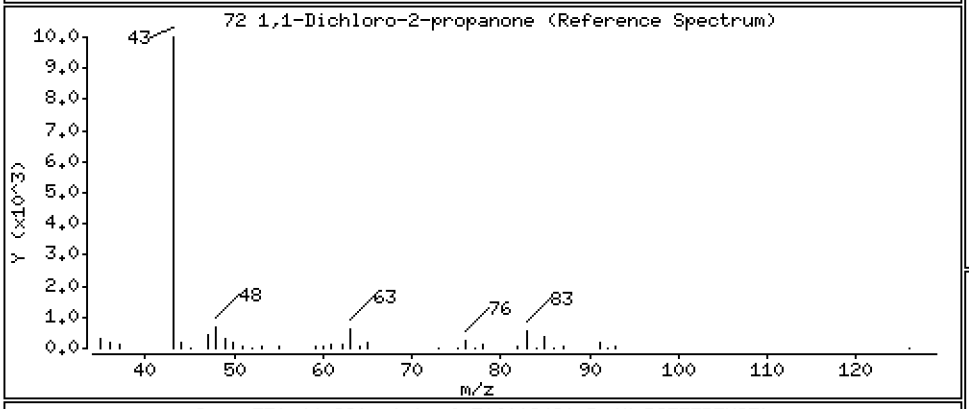
72 1,1-Dichloro-2-propanone Concentration: 248.633 ug/L

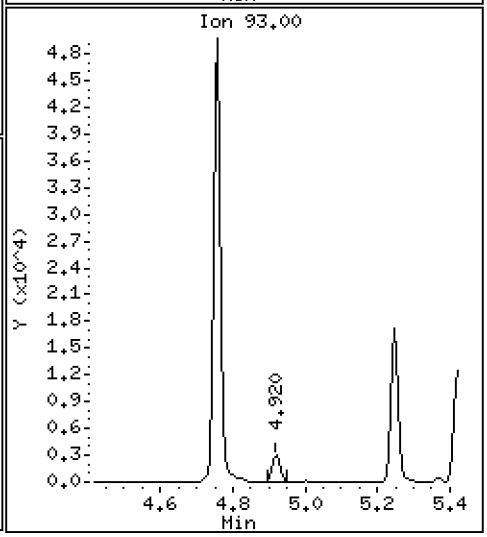


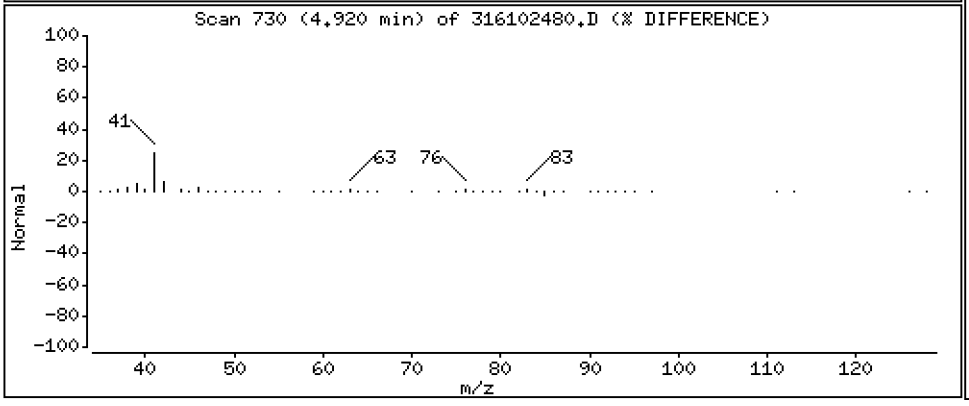












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 81

Date : 25-OCT-2016 09:17

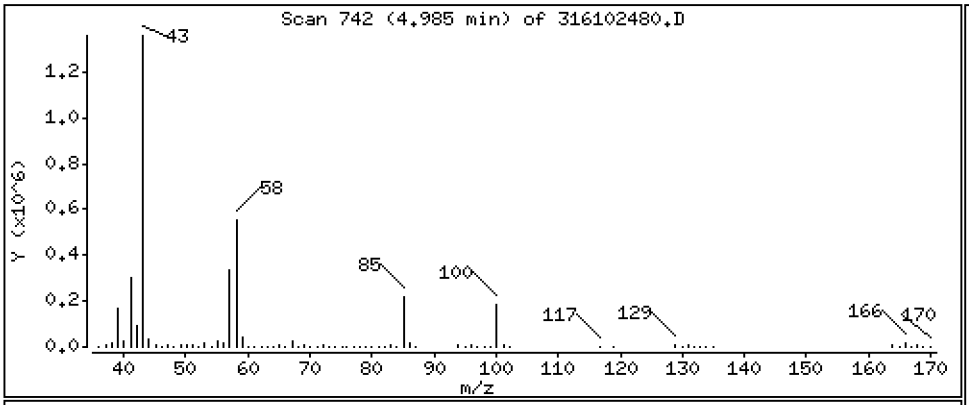
Client ID: Instrument: ms03.i

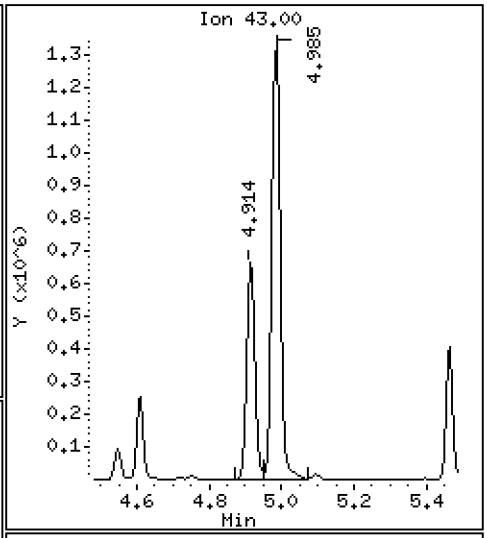
Sample Info: 1801;;1;2;4;;;

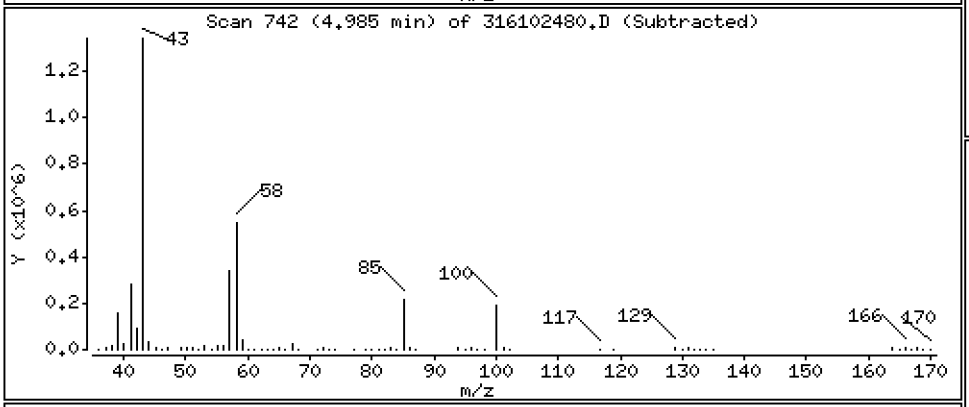
Purge Volume: 5.0 Operator: CJG

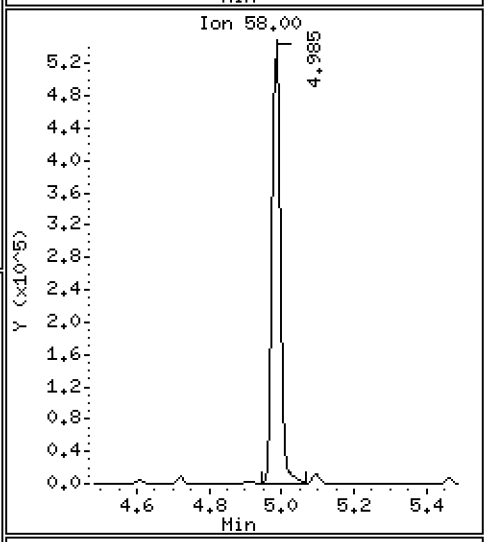
Column phase: DB-VRX Column diameter: 0.25

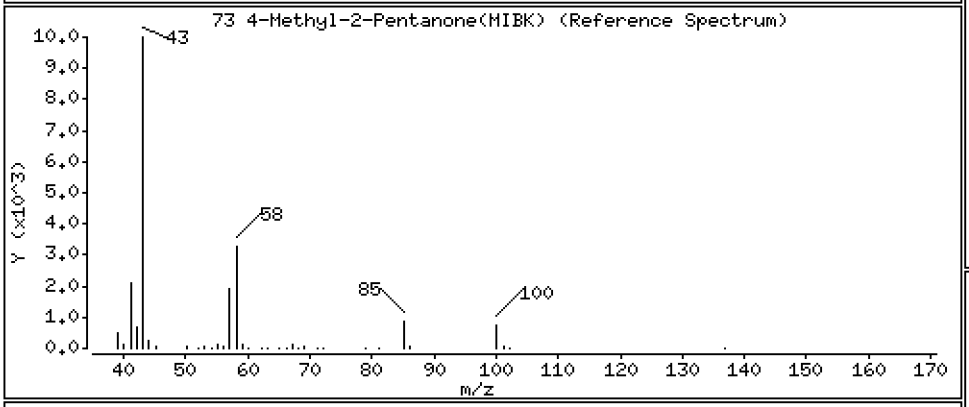
73 4-Methyl-2-Pentanone(MIBK) Concentration: 268.312 ug/L

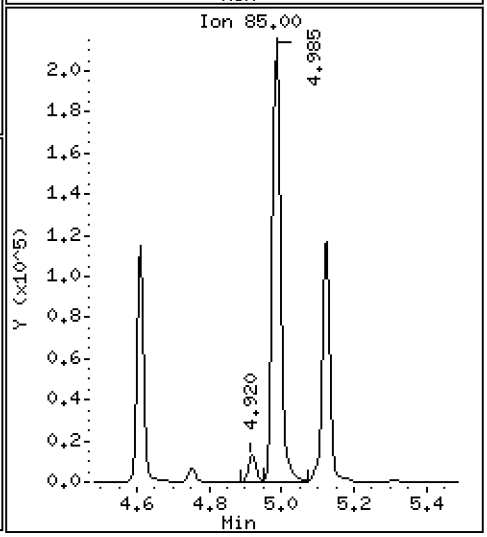


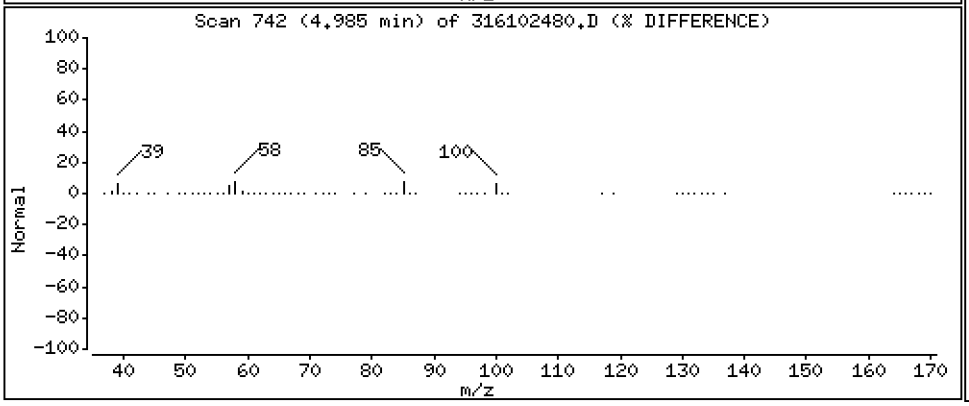












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 82

Date : 25-OCT-2016 09:17

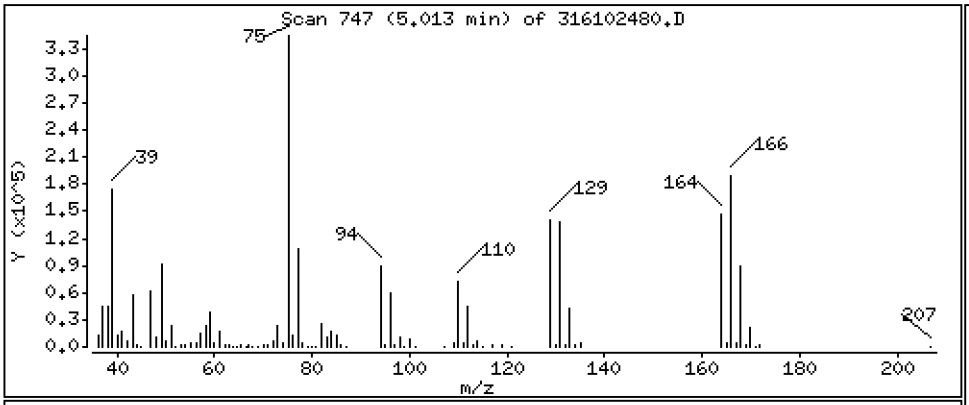
Client ID: Instrument: ms03.i

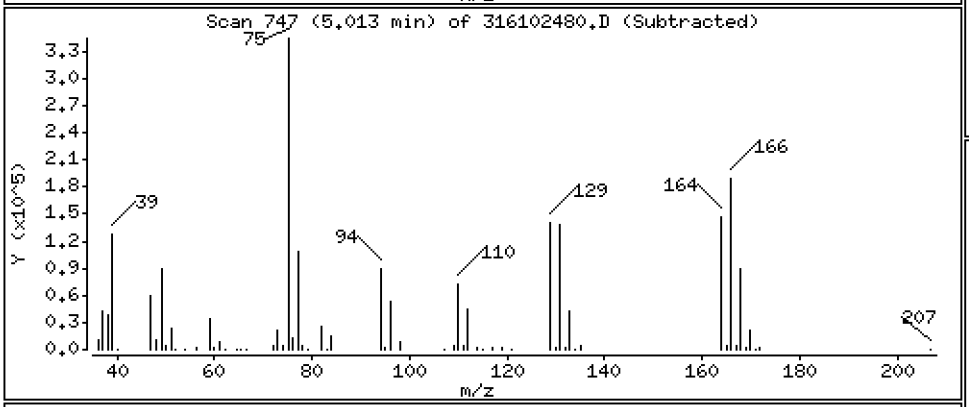
Sample Info: 1801;;1;2;4;;;

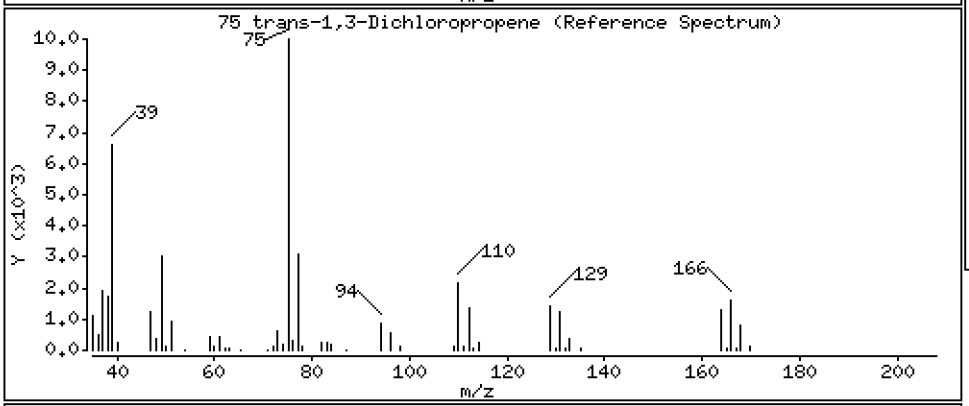
Purge Volume: 5.0 Operator: CJG

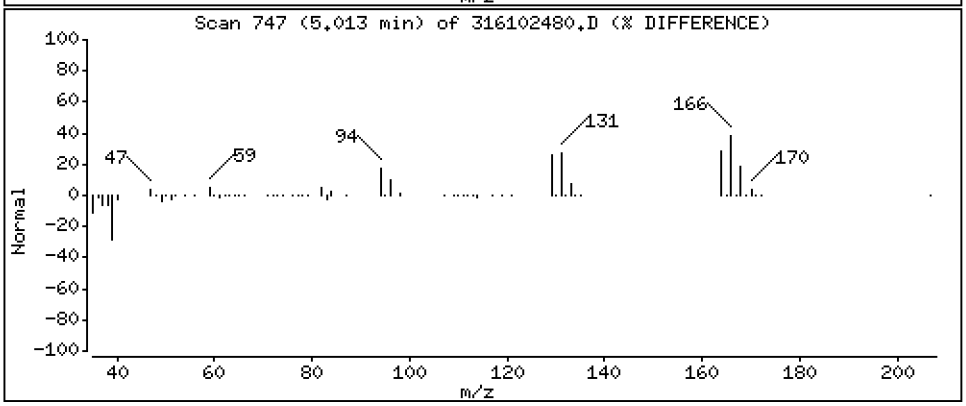
Column phase: DB-VRX Column diameter: 0.25

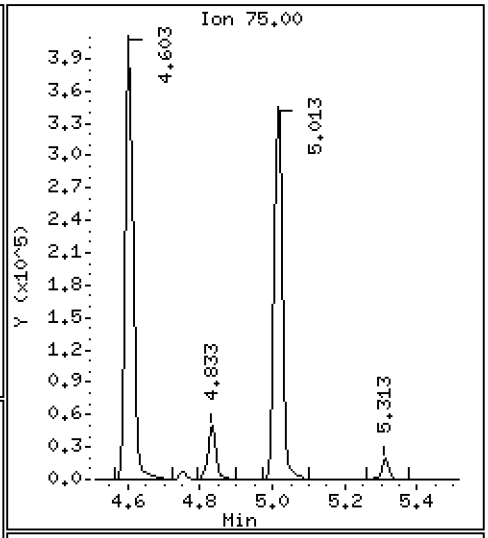
75 trans-1,3-Dichloropropene Concentration: 48.1721 ug/L

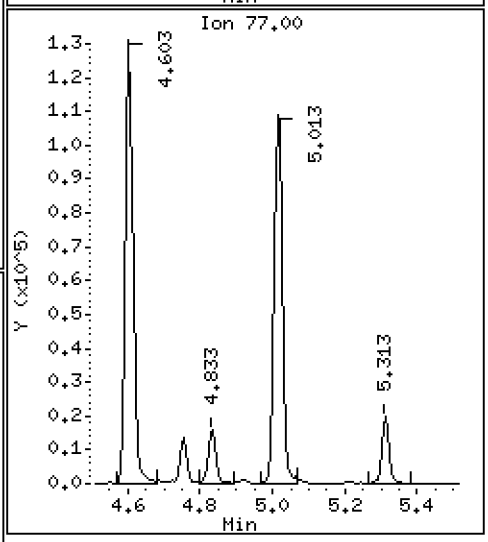












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 83

Date : 25-OCT-2016 09:17

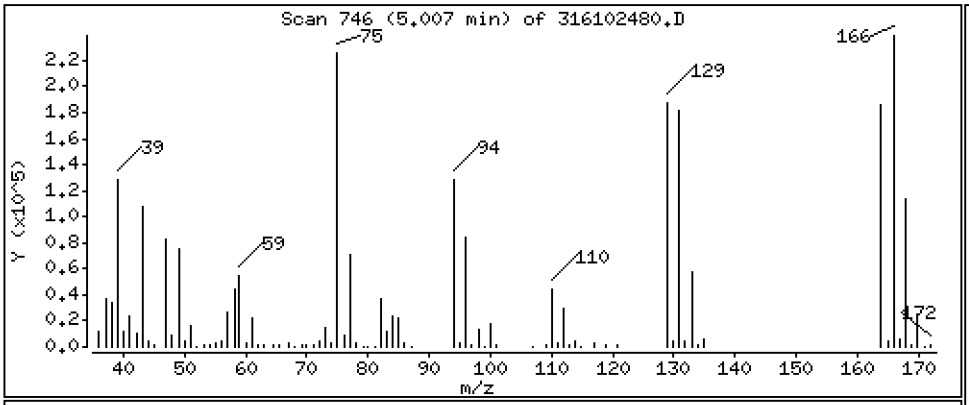
Client ID: Instrument: ms03.i

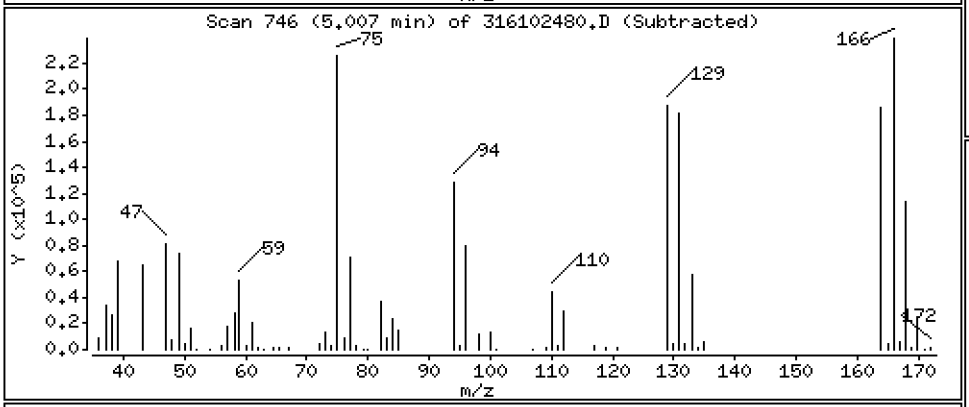
Sample Info: 1801;;1;2;4;;;

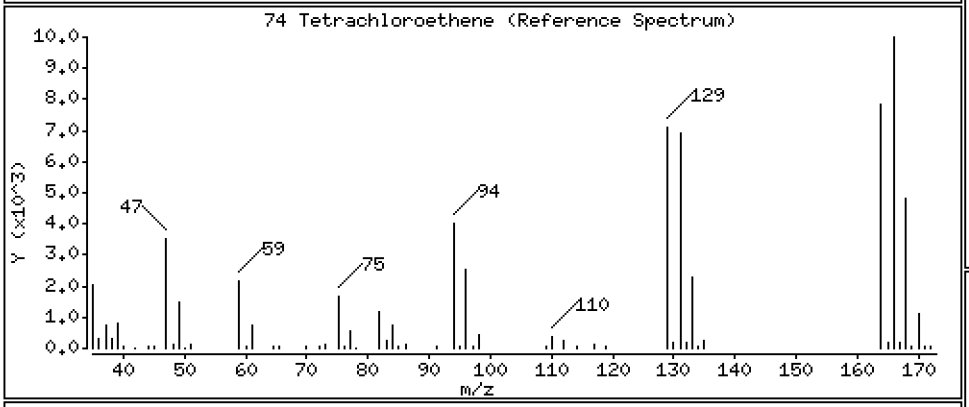
Purge Volume: 5.0 Operator: CJG

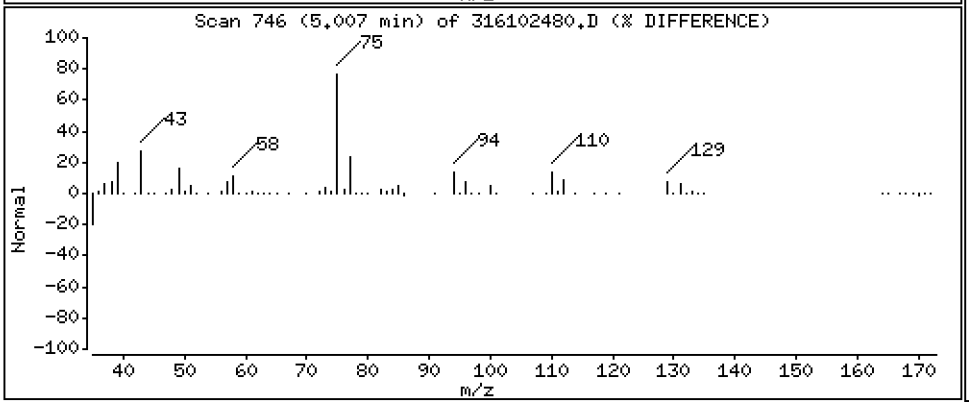
Column phase: DB-VRX Column diameter: 0.25

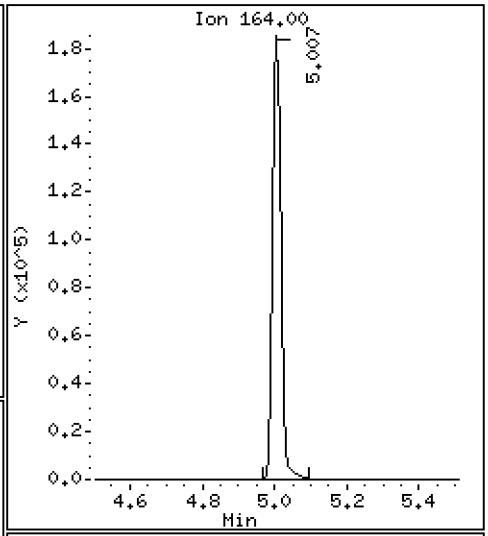
74 Tetrachloroethene Concentration: 52.1798 ug/L

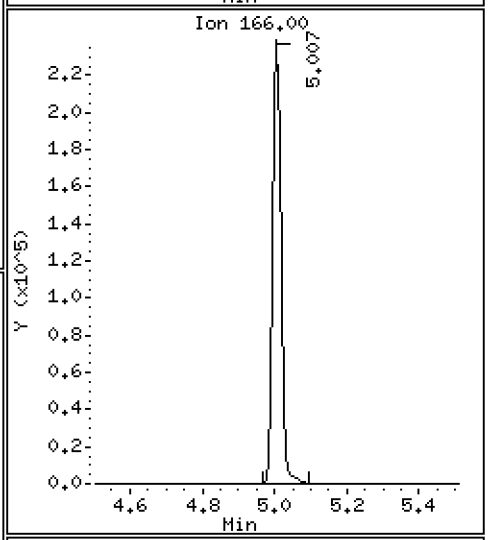


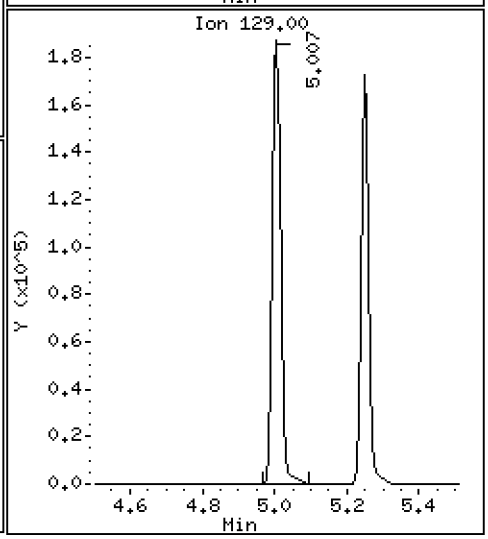












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 84

Date : 25-OCT-2016 09:17

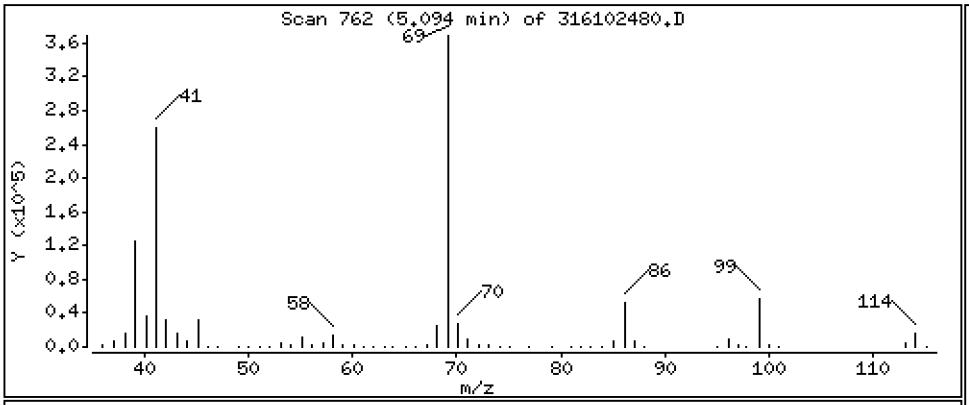
Client ID: Instrument: ms03.i

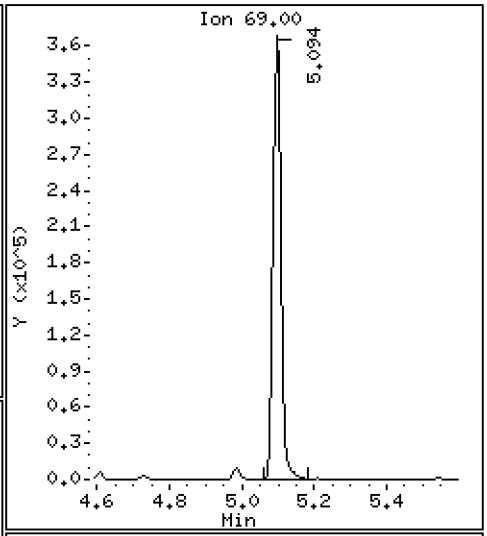
Sample Info: 1801;;1;2;4;;;

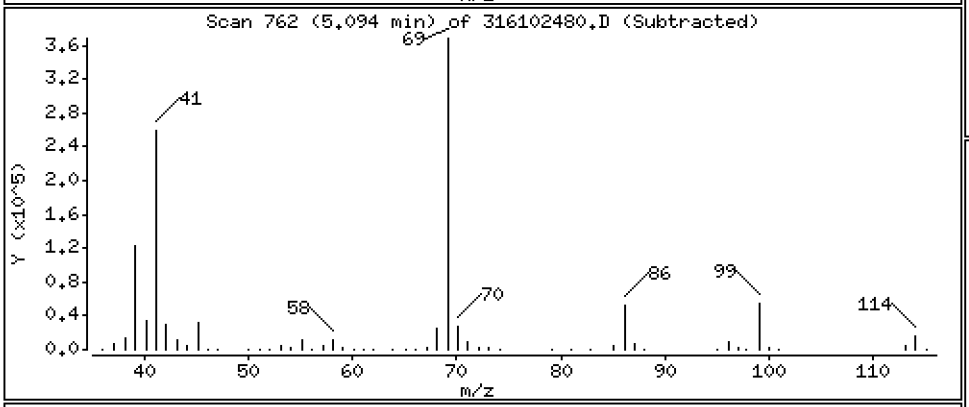
Purge Volume: 5.0 Operator: CJG

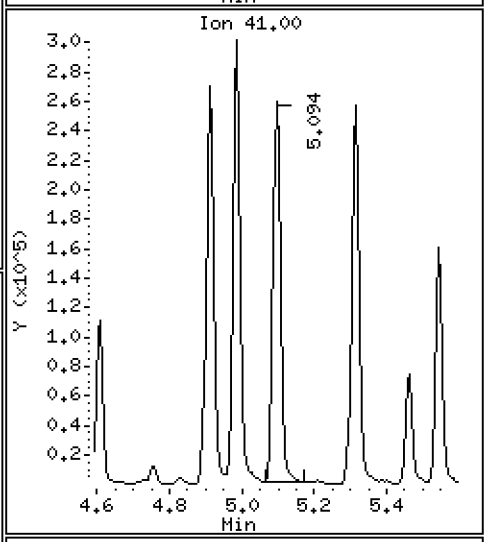
Column phase: DB-VRX Column diameter: 0.25

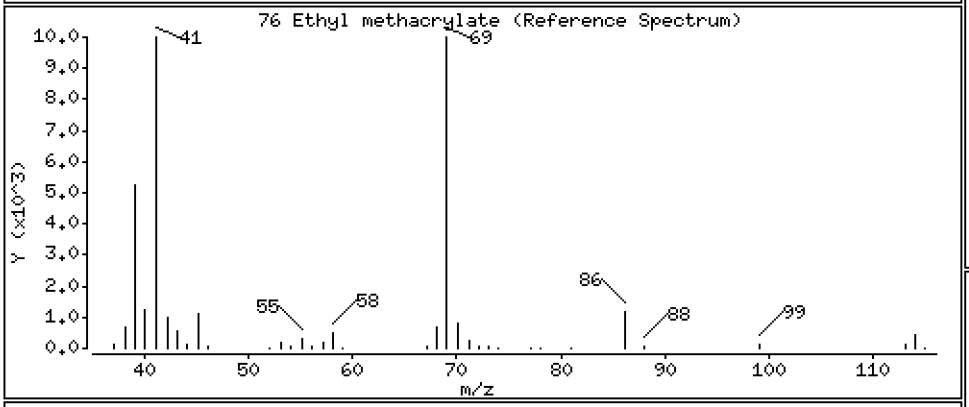
76 Ethyl methacrylate Concentration: 52.6737 ug/L

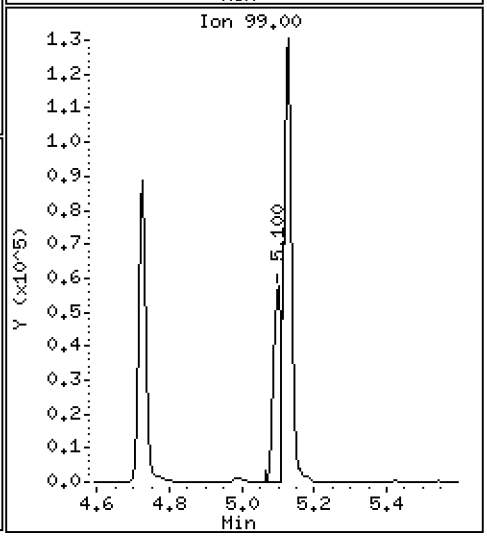


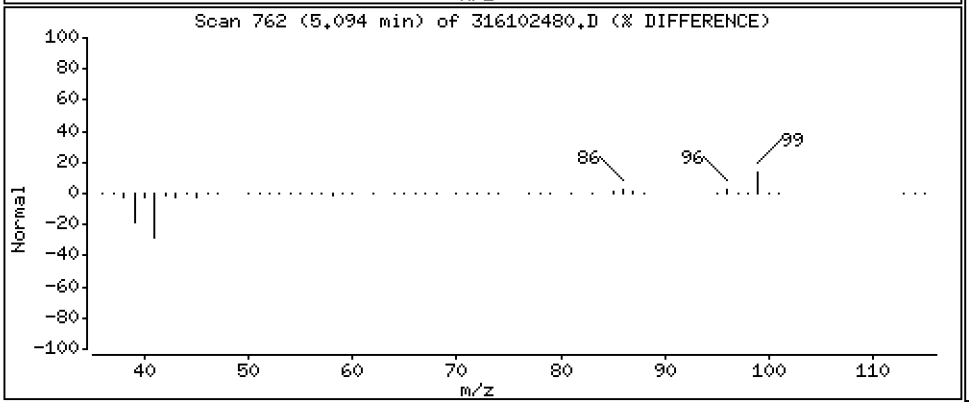












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 85

Date : 25-OCT-2016 09:17

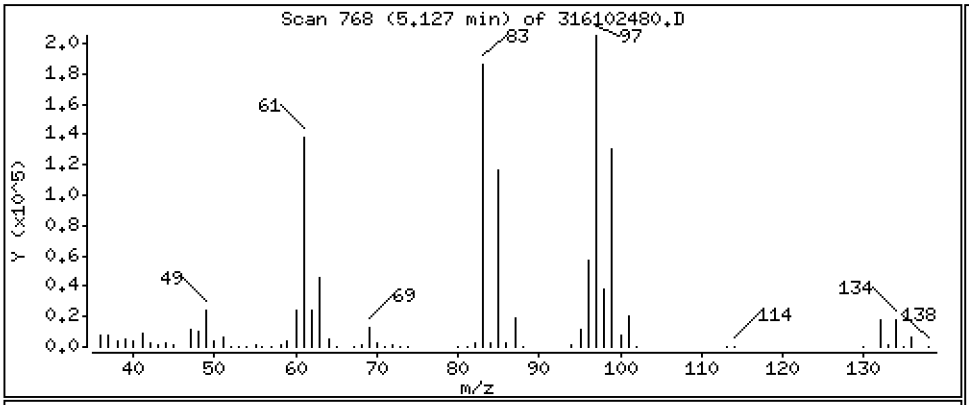
Client ID: Instrument: ms03.i

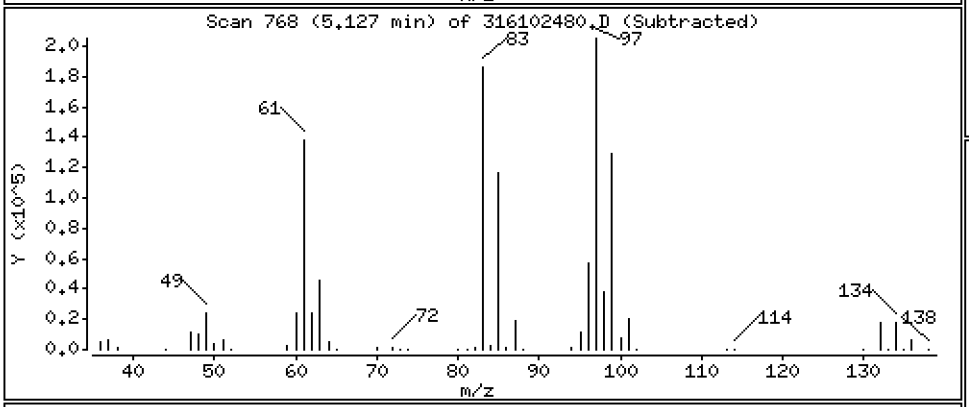
Sample Info: 1801;;1;2;4;;;

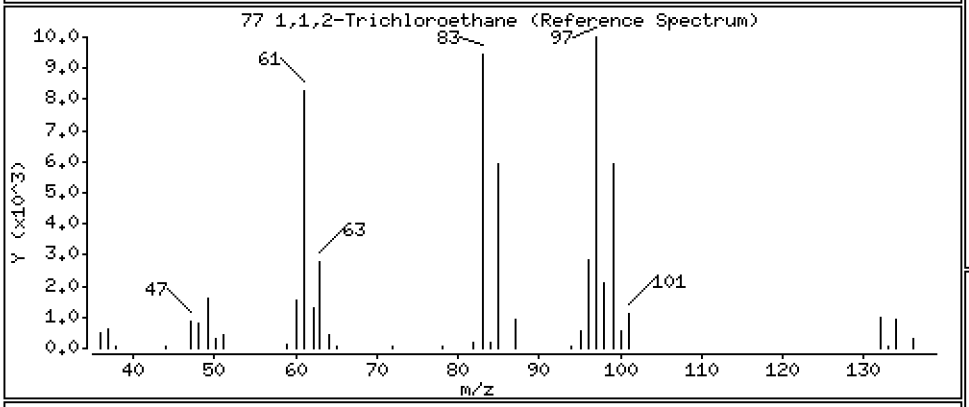
Purge Volume: 5.0 Operator: CJG

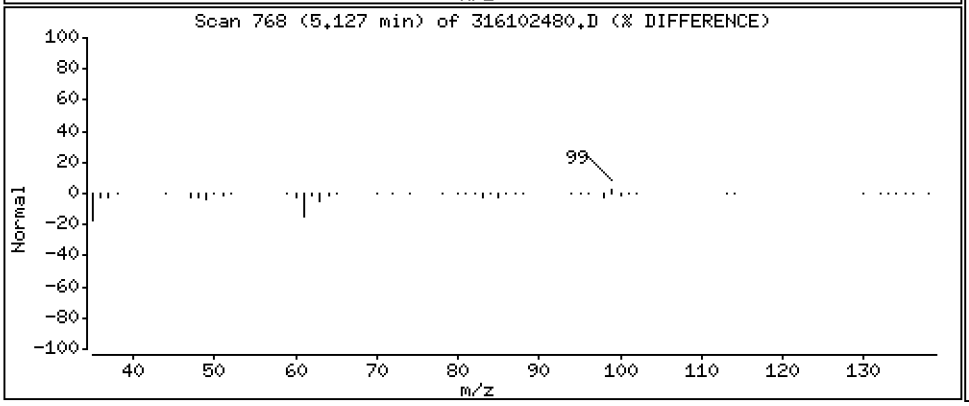
Column phase: DB-VRX Column diameter: 0.25

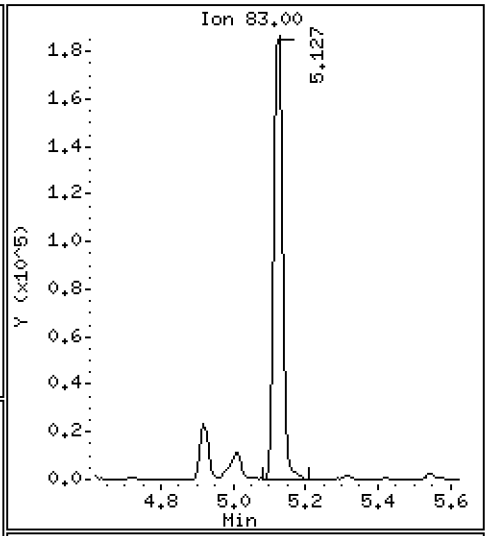
77 1,1,2-Trichloroethane Concentration: 45.7039 ug/L

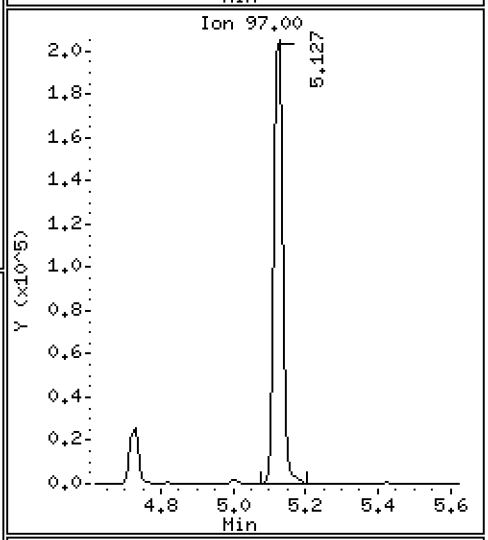


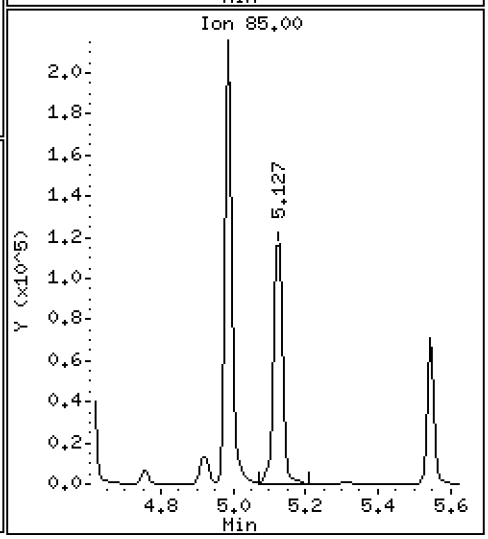












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 86

Date : 25-OCT-2016 09:17

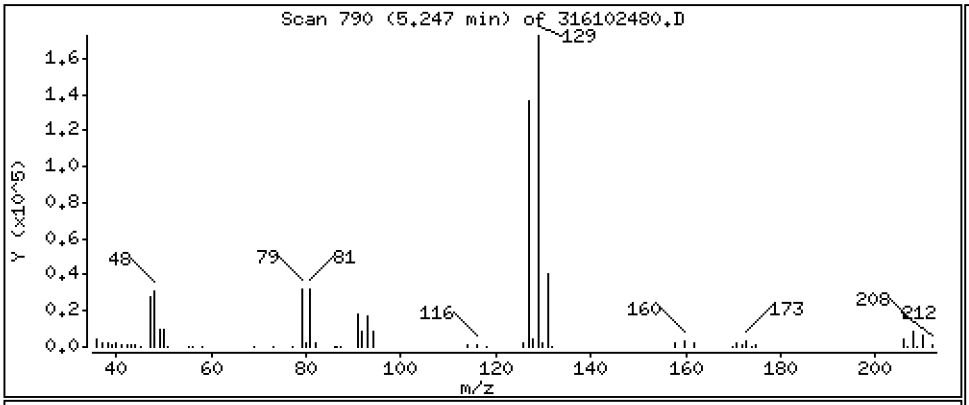
Client ID: Instrument: ms03.i

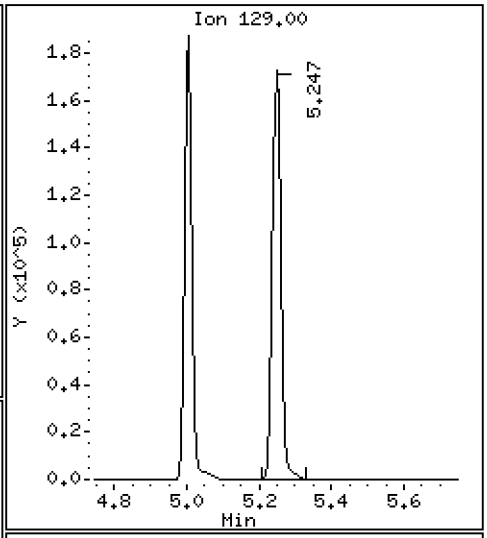
Sample Info: 1801;;1;2;4;;;

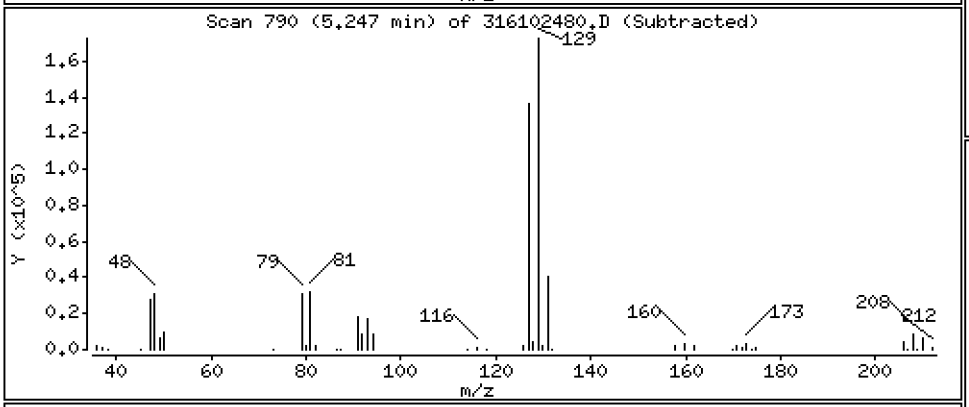
Purge Volume: 5.0 Operator: CJG

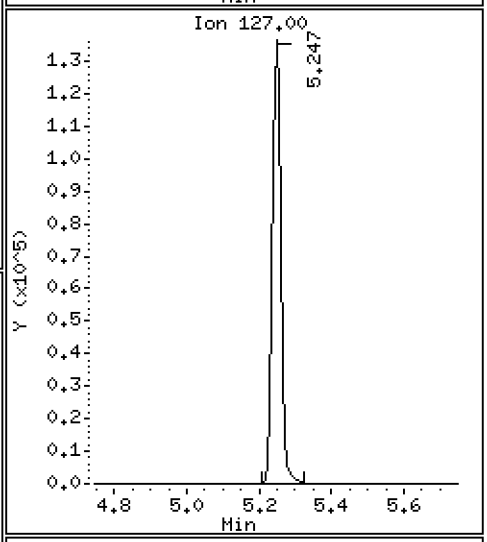
Column phase: DB-VRX Column diameter: 0.25

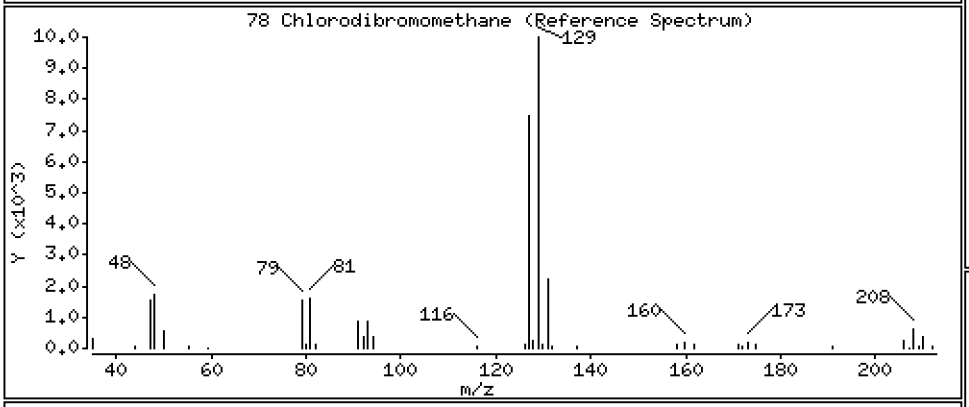
78 Chlorodibromomethane Concentration: 47.1613 ug/L

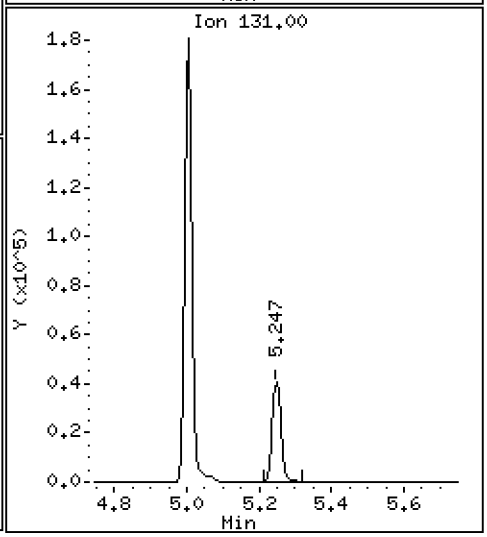


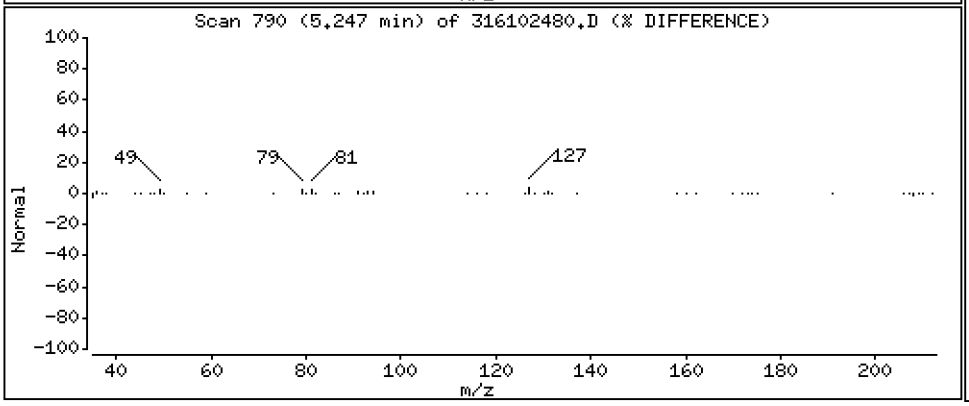












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 87

Date : 25-OCT-2016 09:17

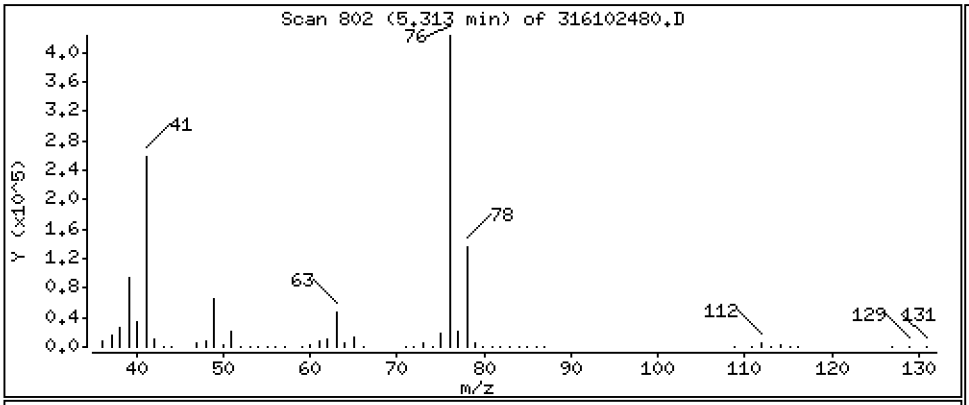
Client ID: Instrument: ms03.i

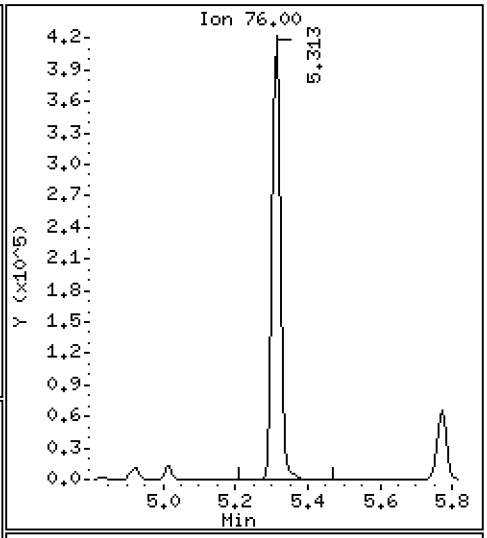
Sample Info: 1801;;1;2;4;;;

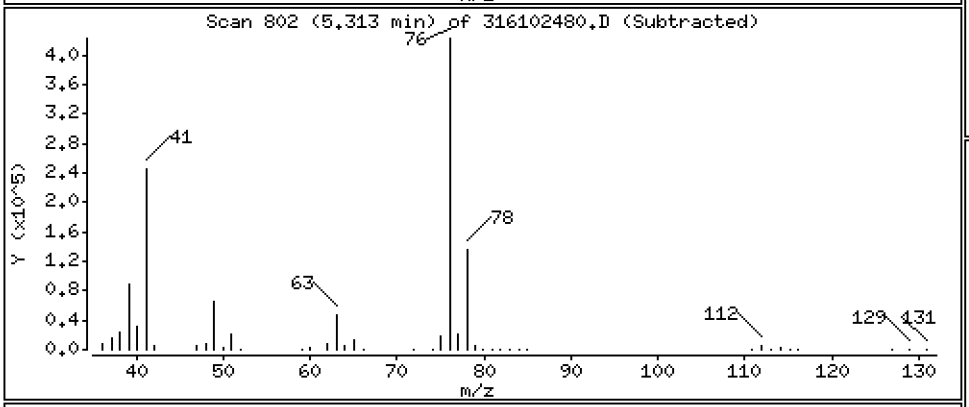
Purge Volume: 5.0 Operator: CJG

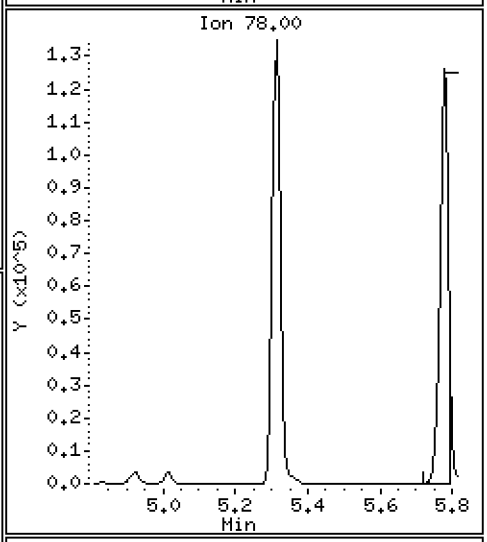
Column phase: DB-VRX Column diameter: 0.25

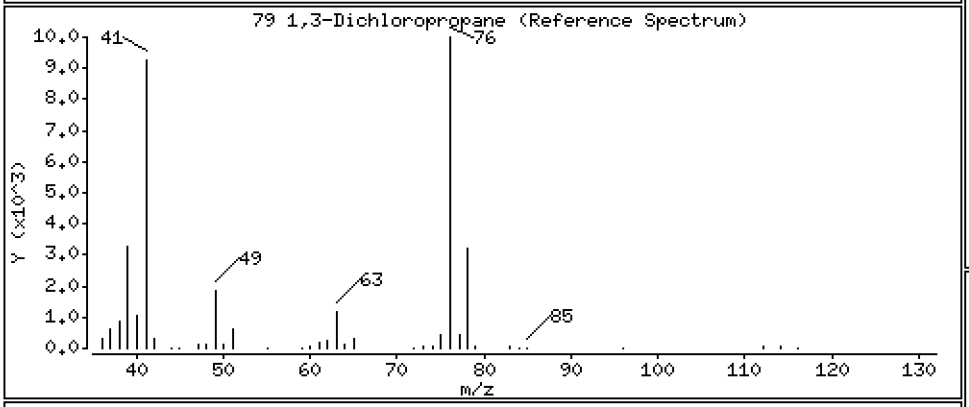
79 1,3-Dichloropropane Concentration: 45.5083 ug/L

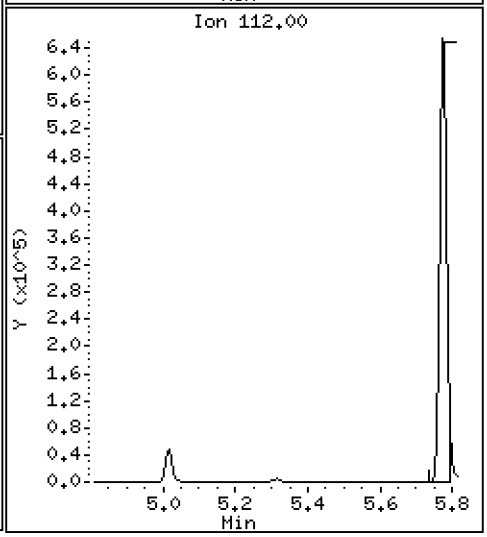


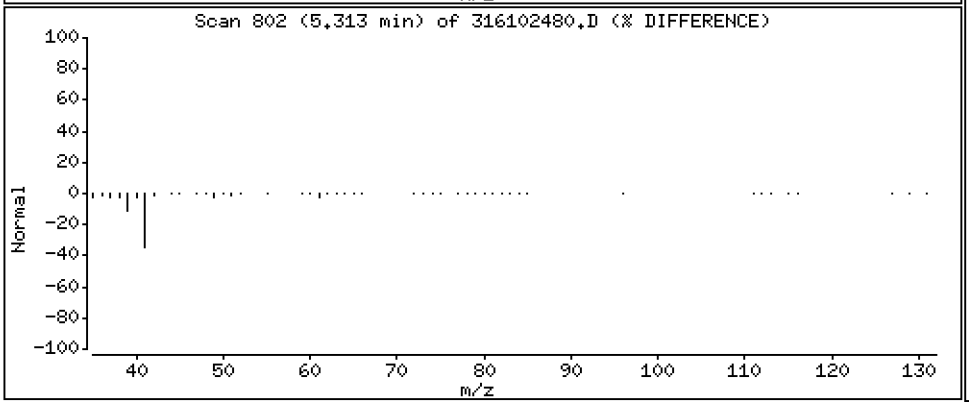












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 88

Date : 25-OCT-2016 09:17

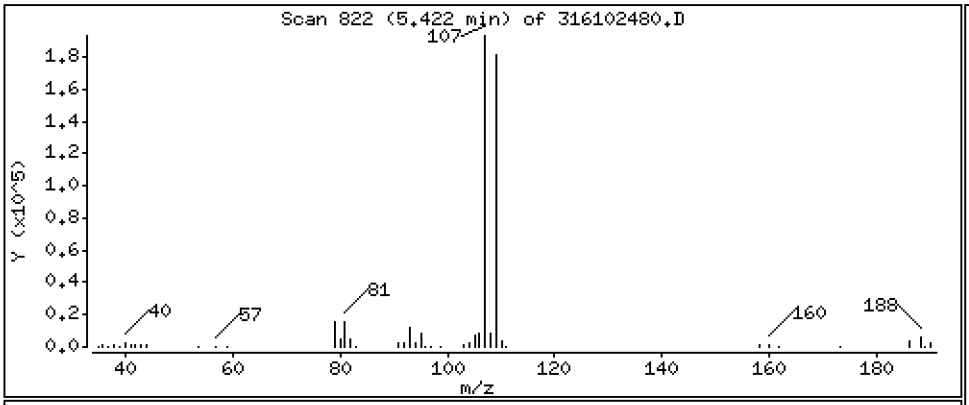
Client ID: Instrument: ms03.i

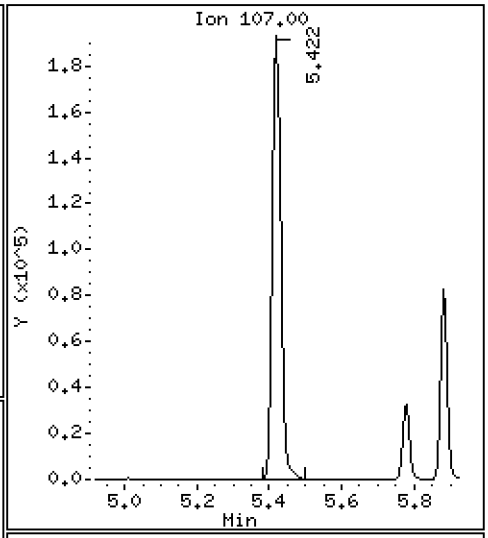
Sample Info: 1801;;1;2;4;;;

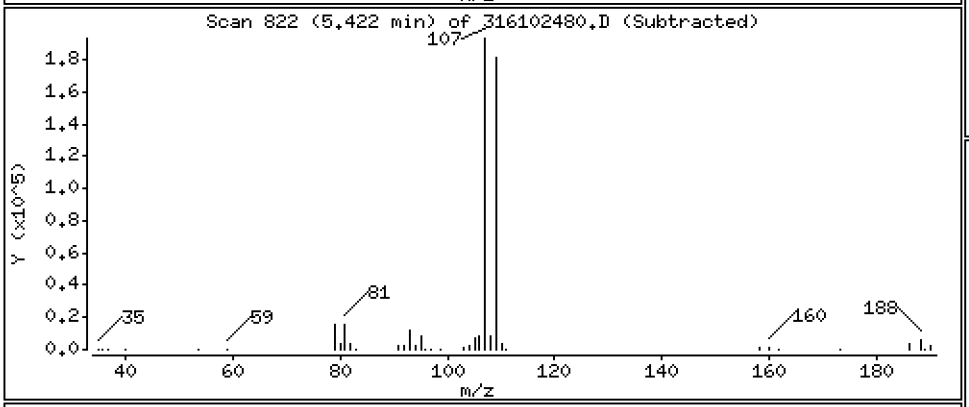
Purge Volume: 5.0 Operator: CJG

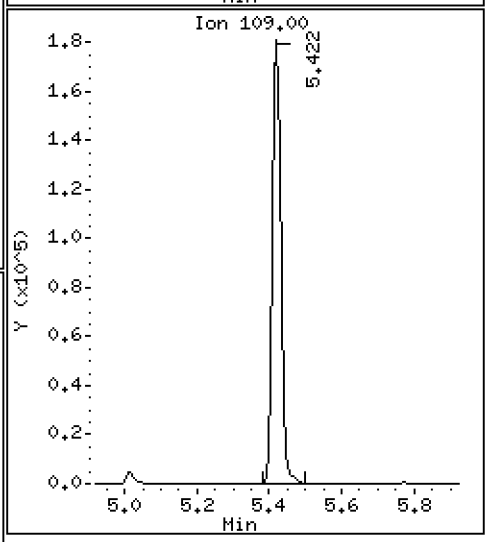
Column phase: DB-VRX Column diameter: 0.25

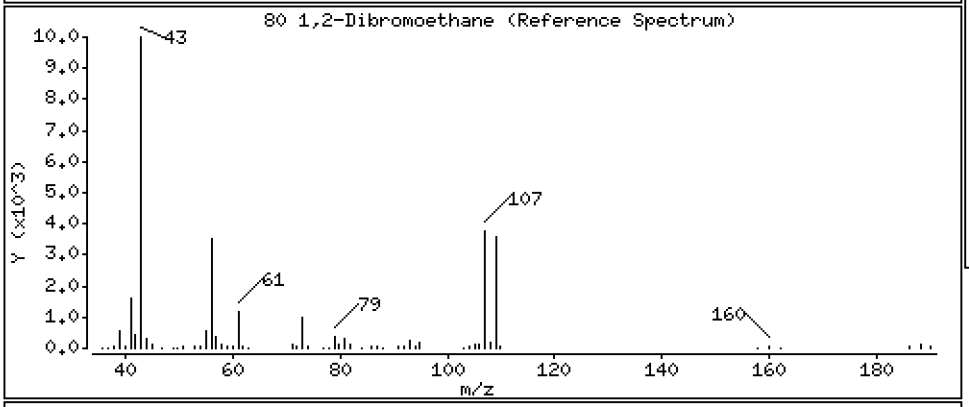
80 1,2-Dibromoethane Concentration: 46.8712 ug/L

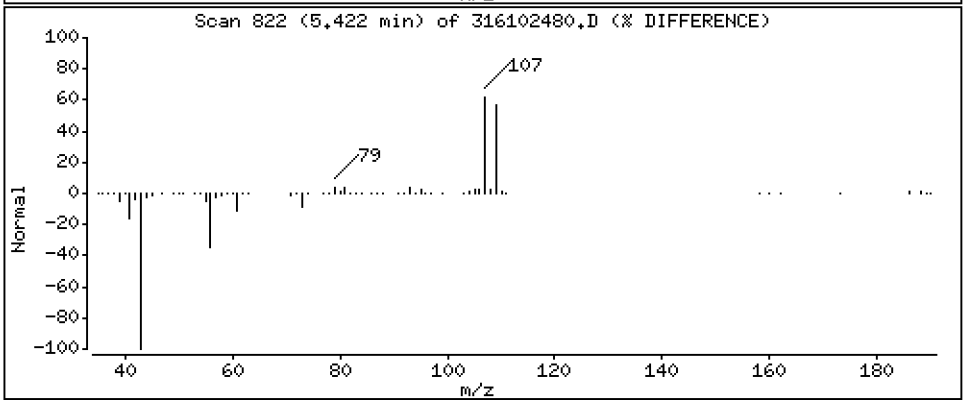












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 89

Date : 25-OCT-2016 09:17

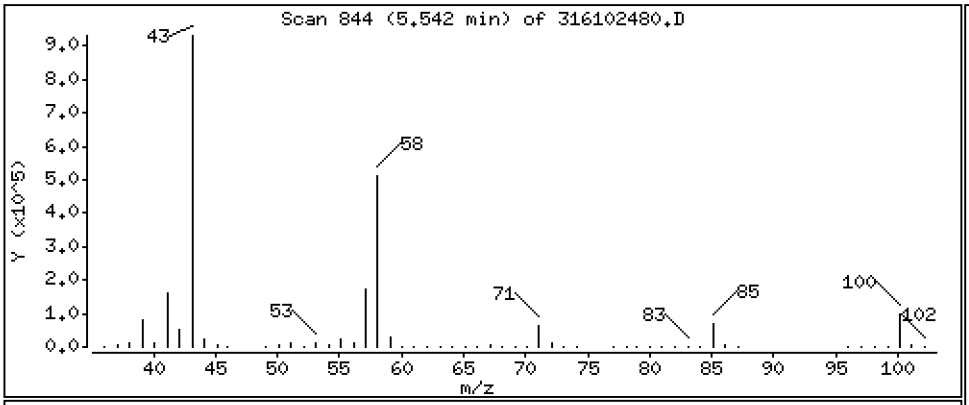
Client ID: Instrument: ms03.i

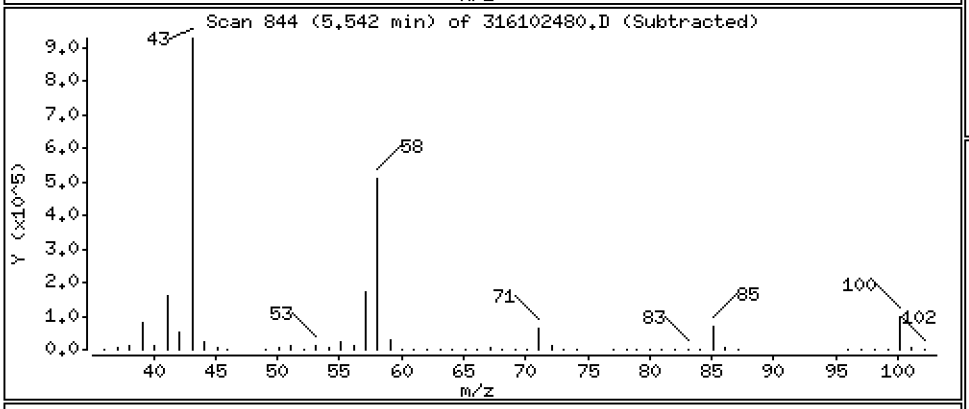
Sample Info: 1801;;1;2;4;;;

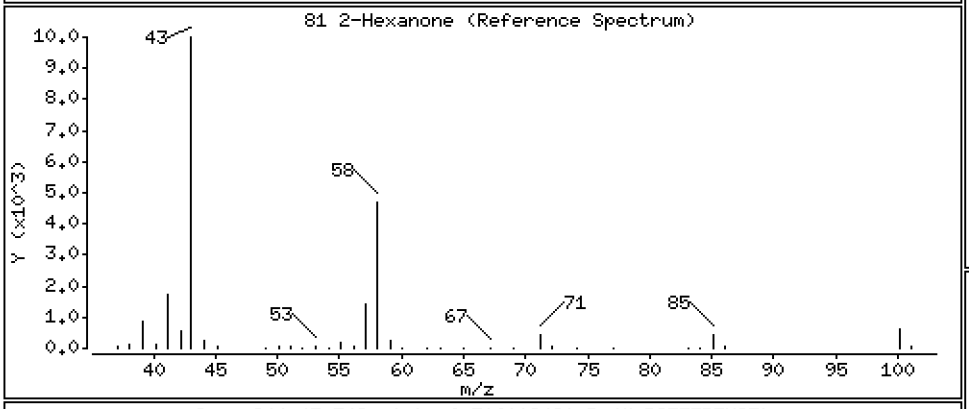
Purge Volume: 5.0 Operator: CJG

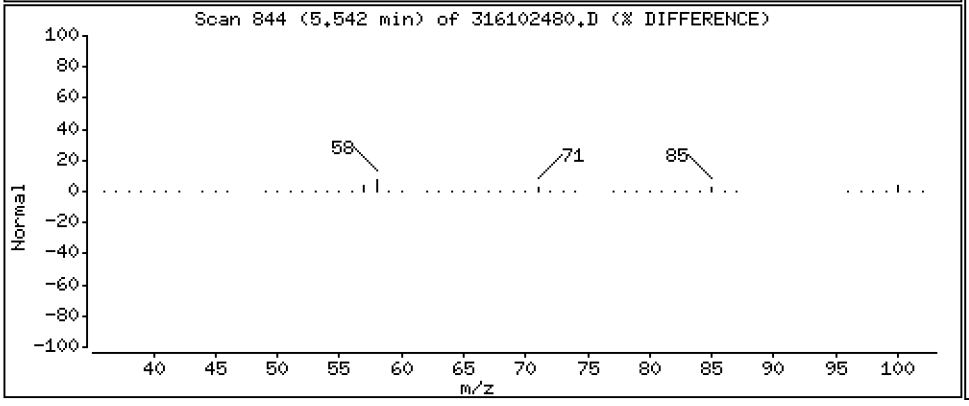
Column phase: DB-VRX Column diameter: 0.25

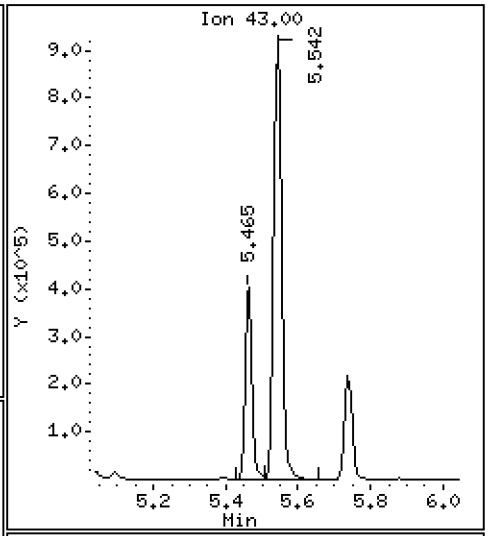
81 2-Hexanone Concentration: 276.917 ug/L

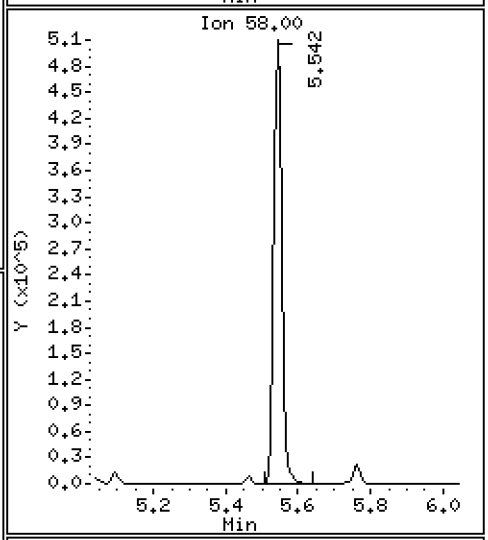


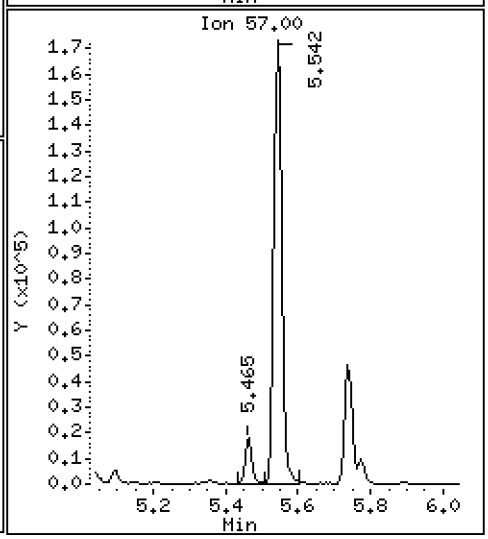












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 90

Date : 25-OCT-2016 09:17

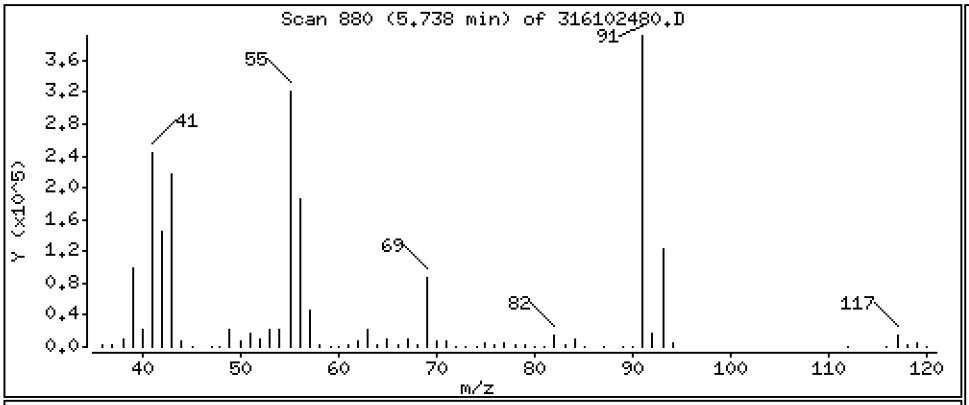
Client ID: Instrument: ms03.i

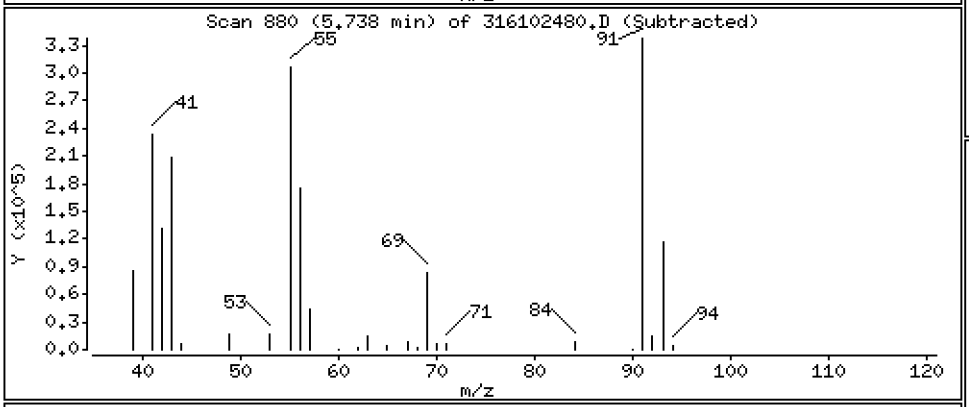
Sample Info: 1801;;1;2;4;;;

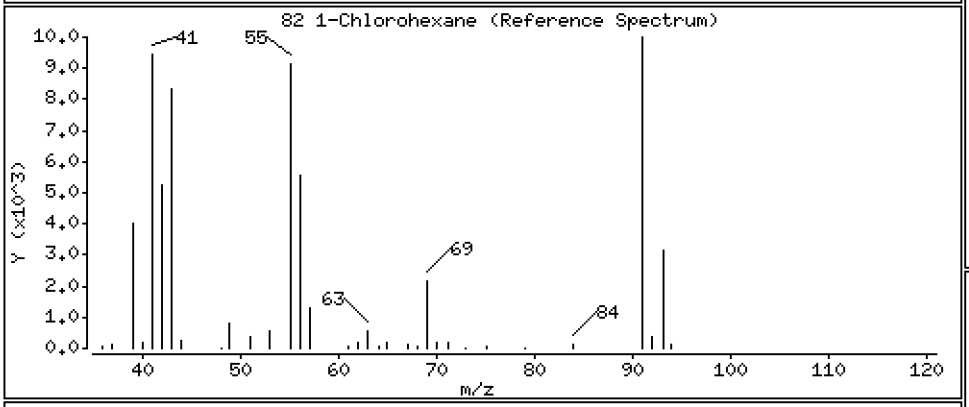
Purge Volume: 5.0 Operator: CJG

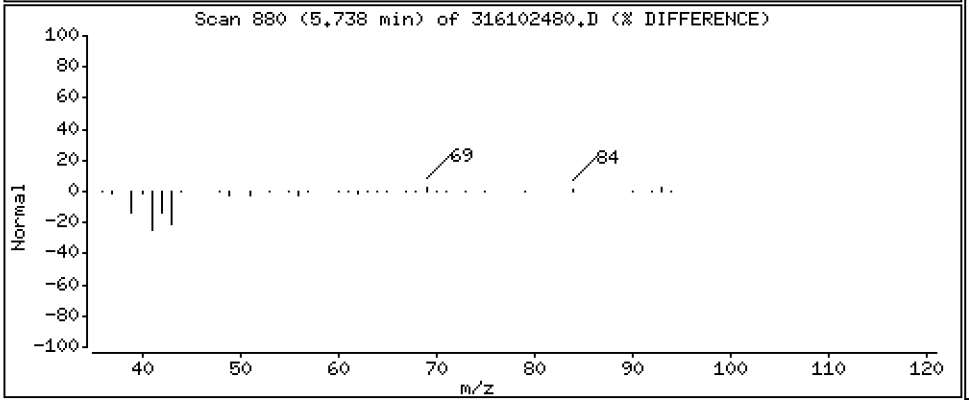
Column phase: DB-VRX Column diameter: 0.25

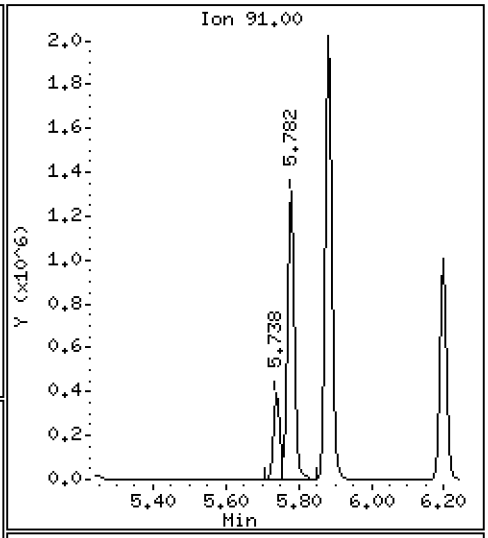
82 1-Chlorohexane Concentration: 47.0370 ug/L

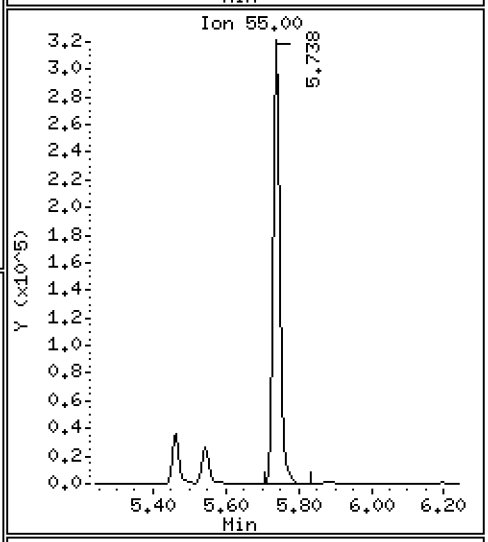


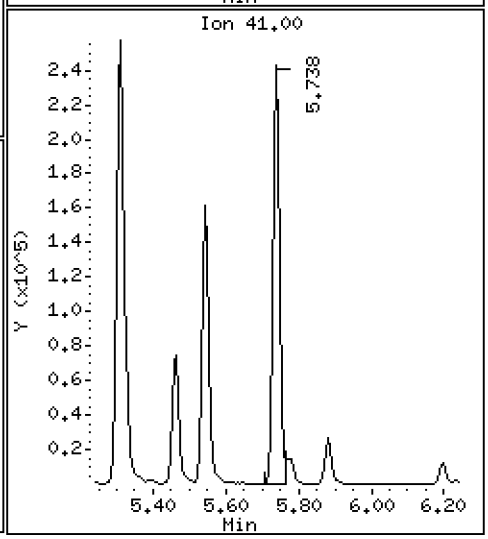












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 91

Date : 25-OCT-2016 09:17

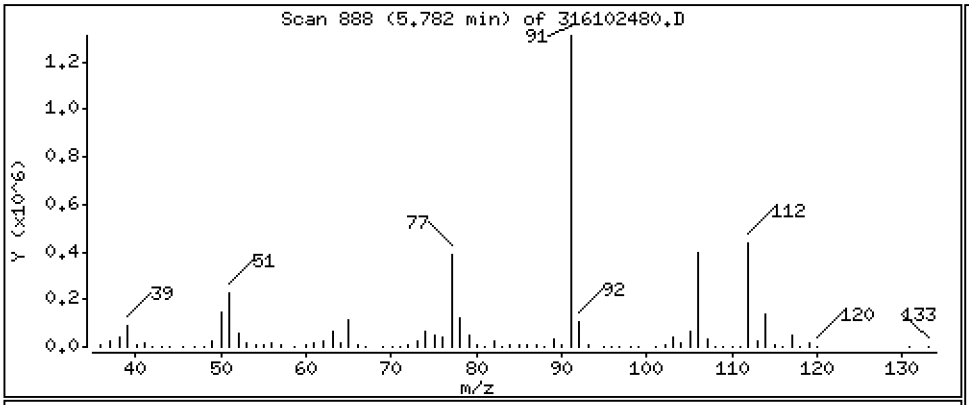
Client ID: Instrument: ms03.i

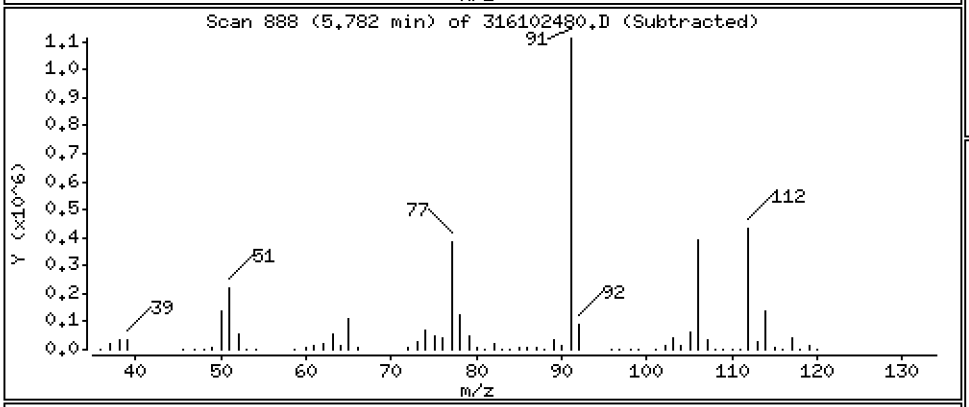
Sample Info: 1801;;1;2;4;;;

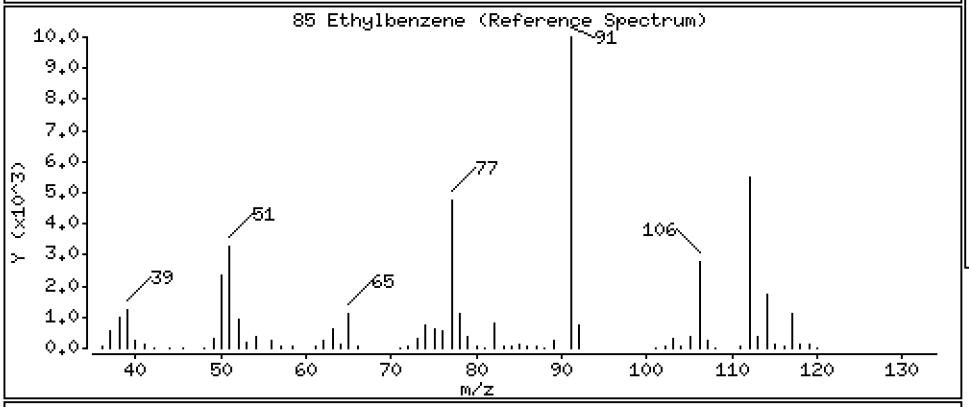
Purge Volume: 5.0 Operator: CJG

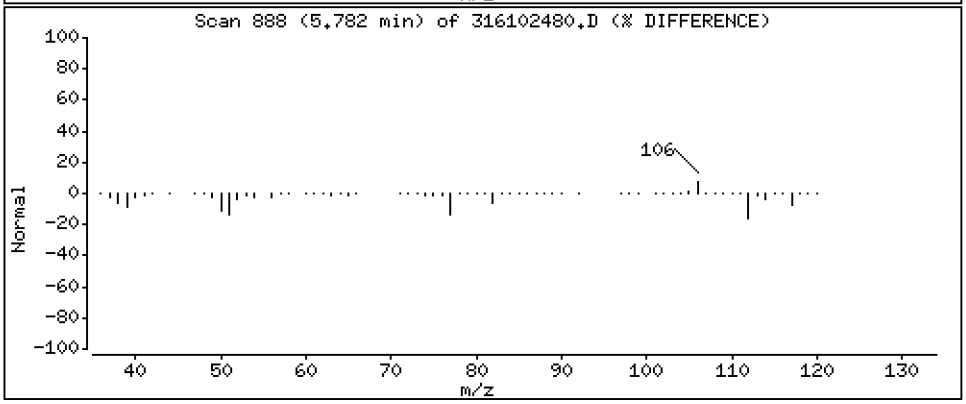
Column phase: DB-VRX Column diameter: 0.25

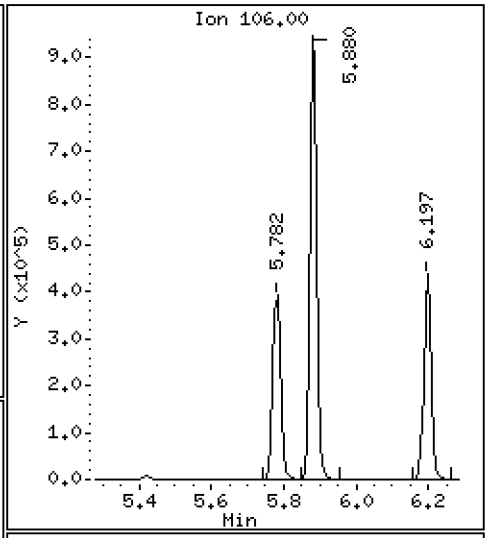
85 Ethylbenzene Concentration: 44.9741 ug/L

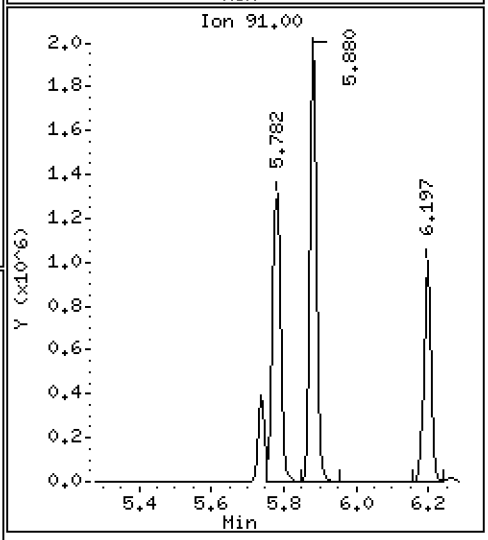












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 92

Date : 25-OCT-2016 09:17

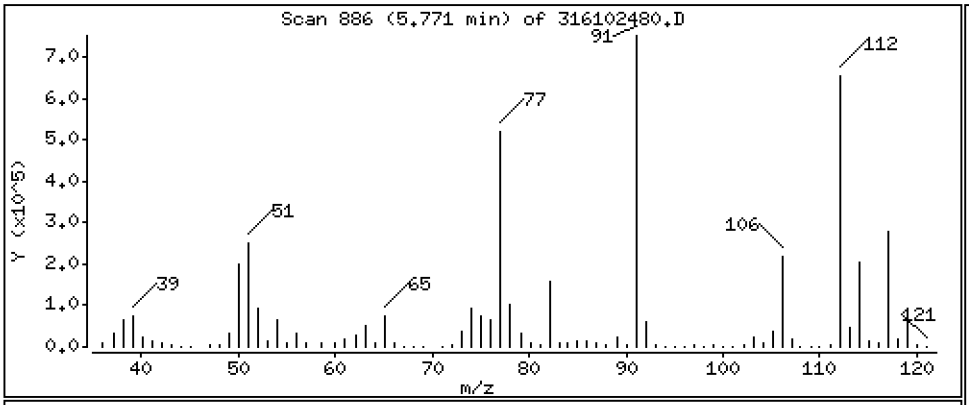
Client ID: Instrument: ms03.i

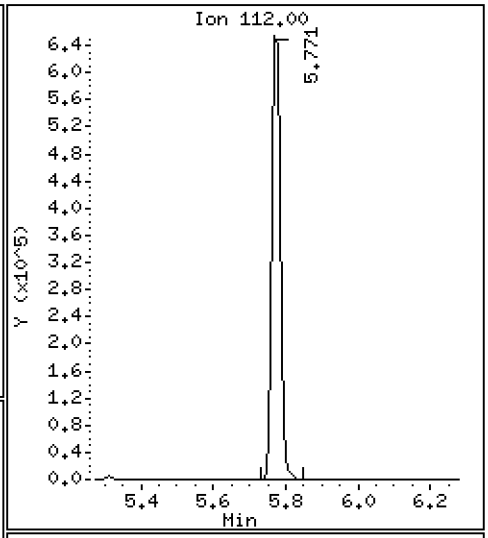
Sample Info: 1801;;1;2;4;;;

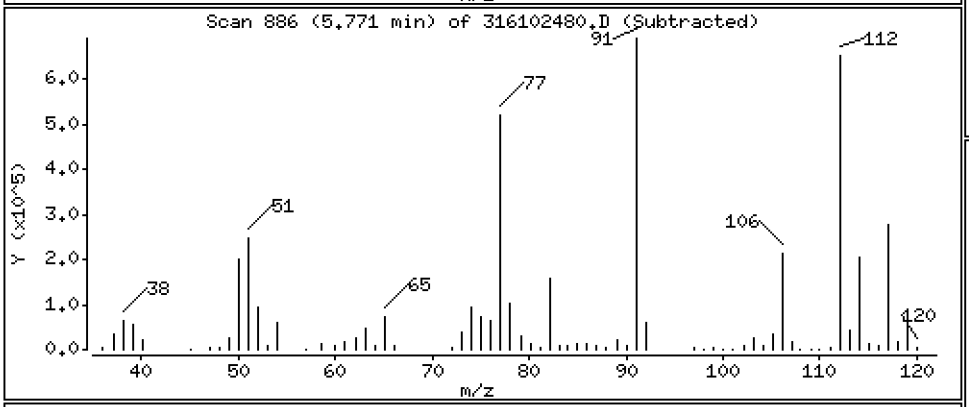
Purge Volume: 5.0 Operator: CJG

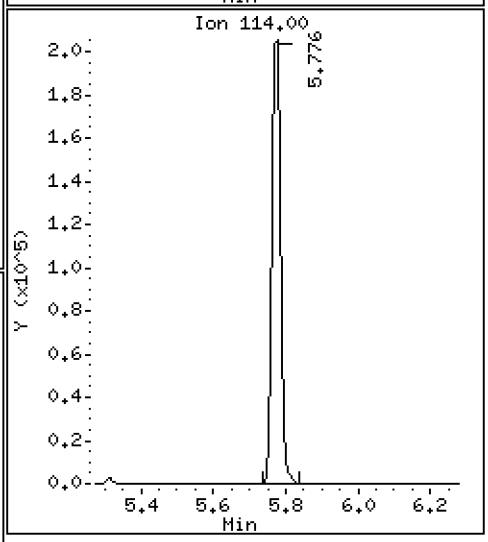
Column phase: DB-VRX Column diameter: 0.25

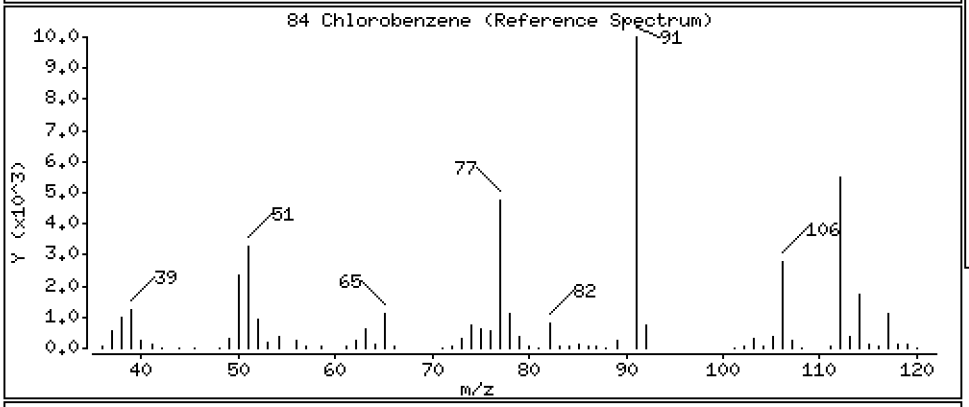
84 Chlorobenzene Concentration: 43.2863 ug/L

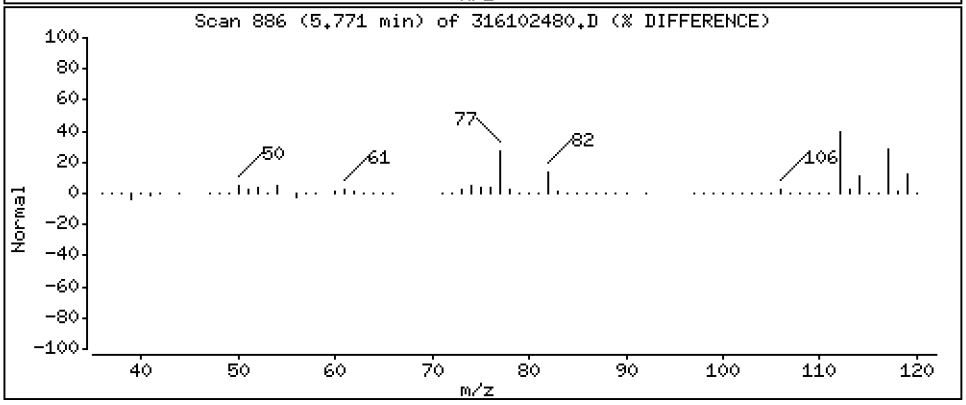












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 93

Date : 25-OCT-2016 09:17

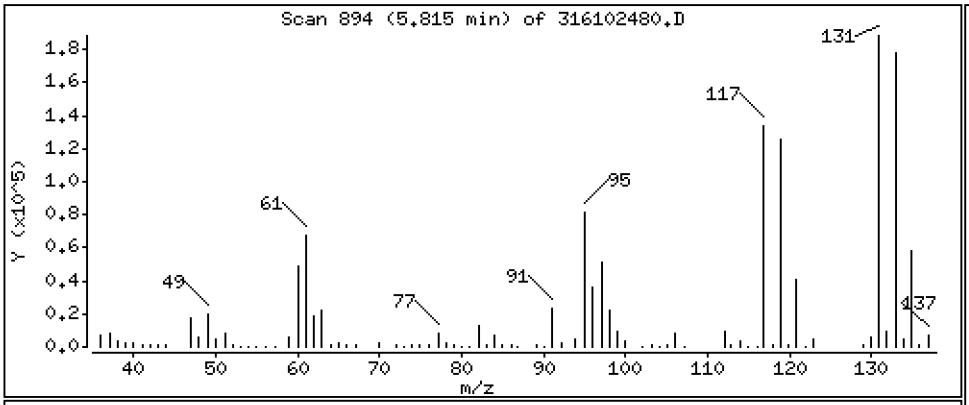
Client ID: Instrument: ms03.i

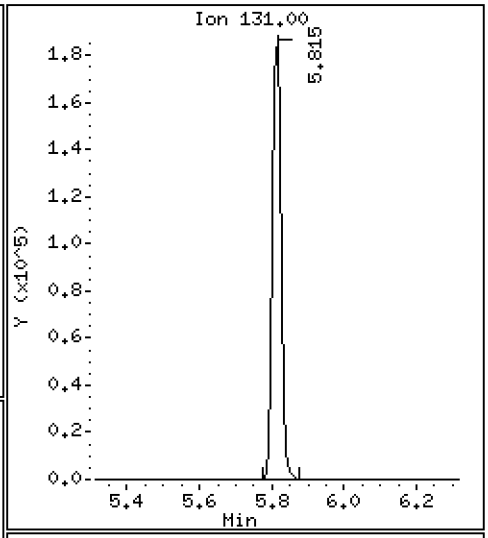
Sample Info: 1801;;1;2;4;;;

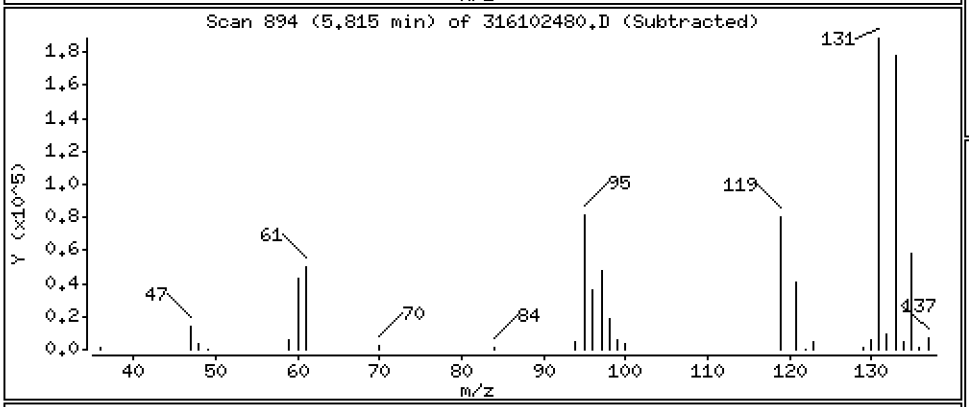
Purge Volume: 5.0 Operator: CJG

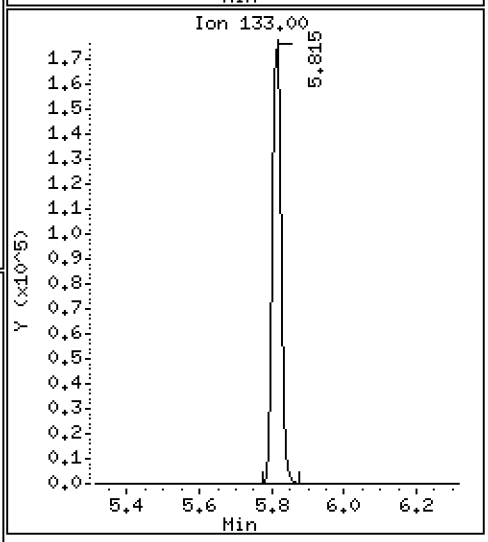
Column phase: DB-VRX Column diameter: 0.25

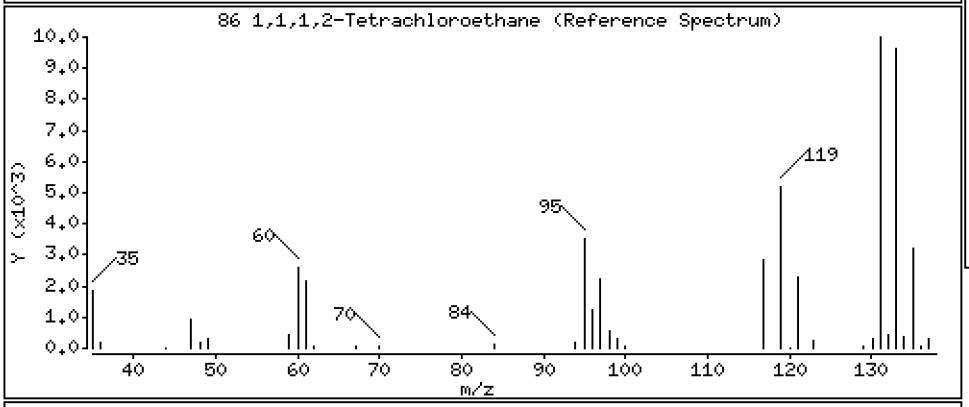
86 1,1,1,2-Tetrachloroethane Concentration: 47.7705 ug/L

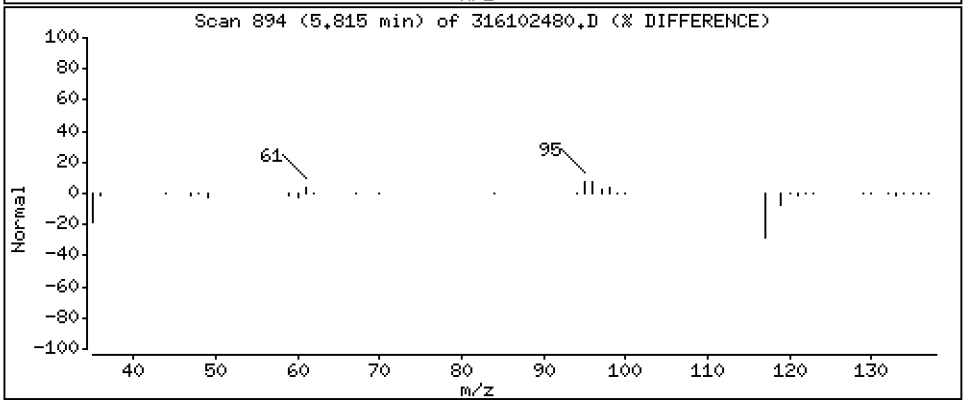












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 94

Date : 25-OCT-2016 09:17

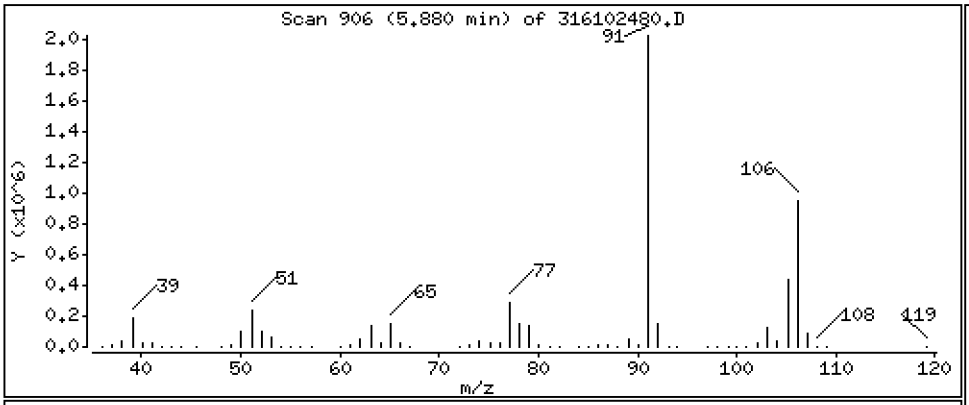
Client ID: Instrument: ms03.i

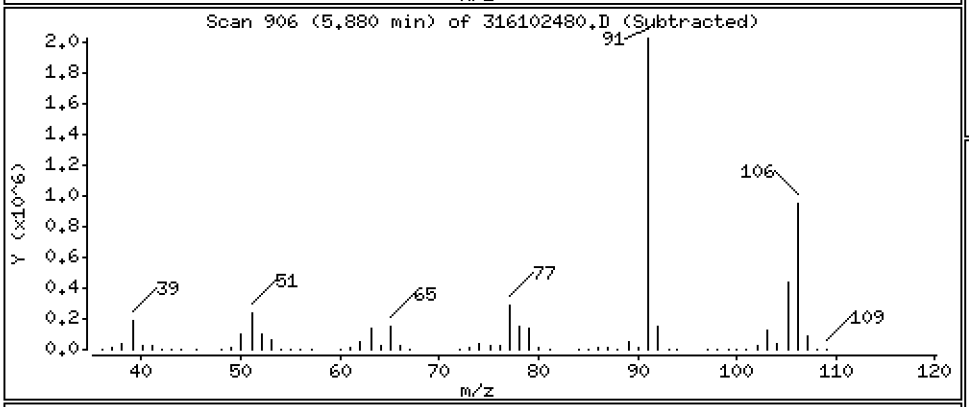
Sample Info: 1801;;1;2;4;;;

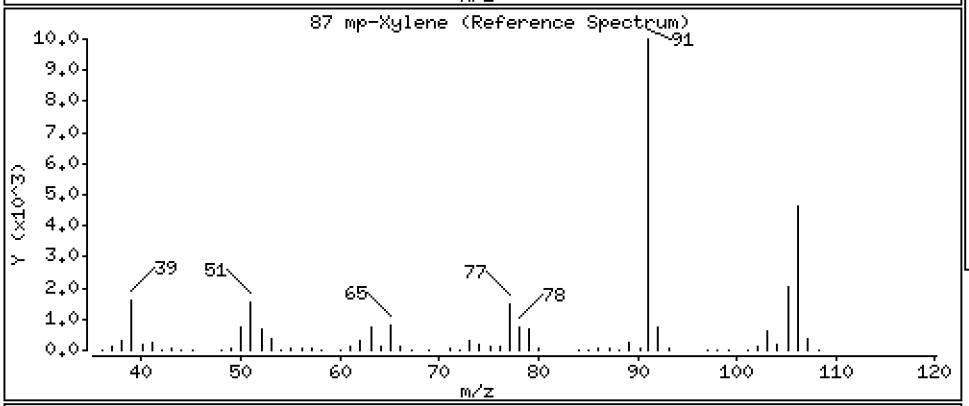
Purge Volume: 5.0 Operator: CJG

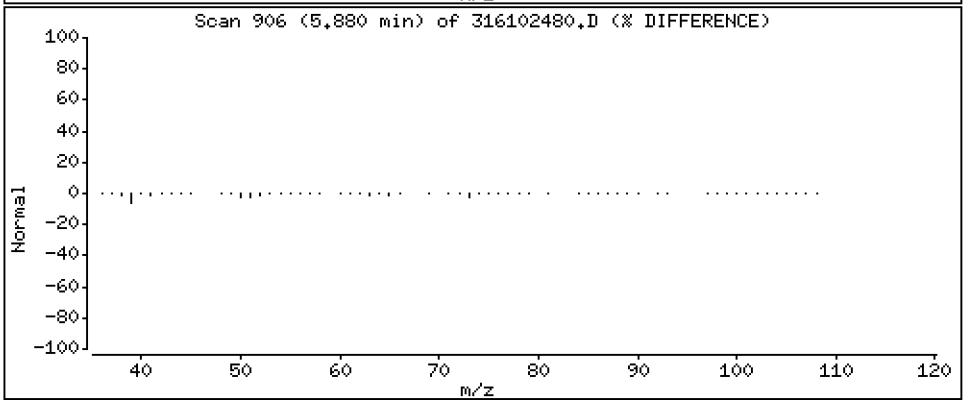
Column phase: DB-VRX Column diameter: 0.25

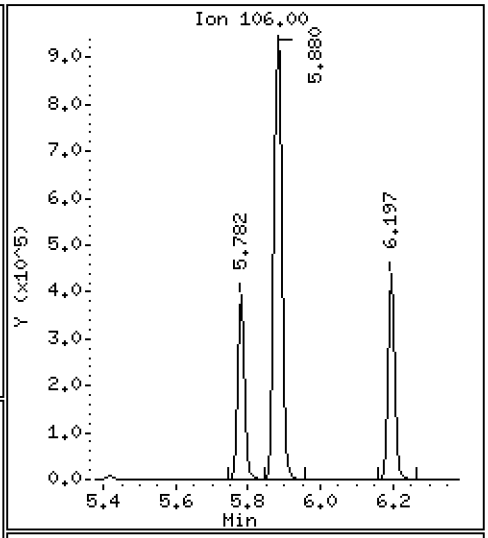
87 mp-Xylene Concentration: 91.6912 ug/L

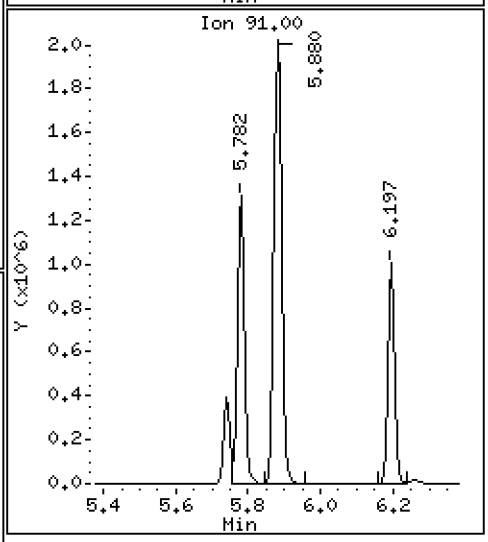












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 95

Date : 25-OCT-2016 09:17

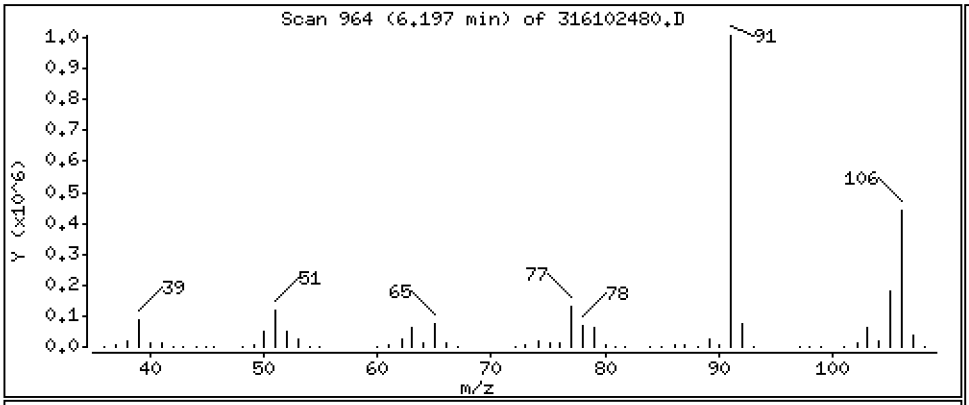
Client ID: Instrument: ms03.i

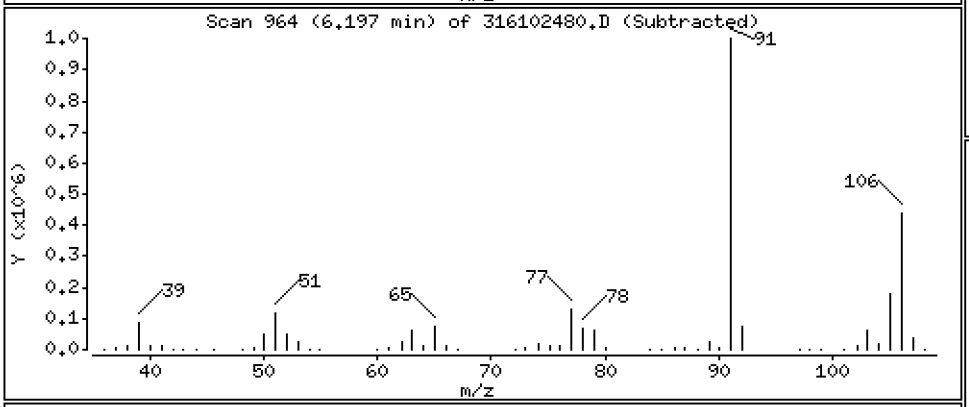
Sample Info: 1801;;1;2;4;;;

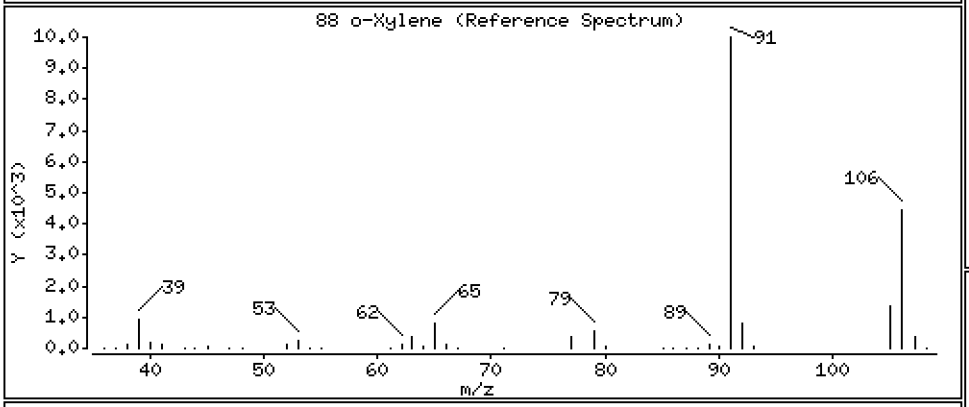
Purge Volume: 5.0 Operator: CJG

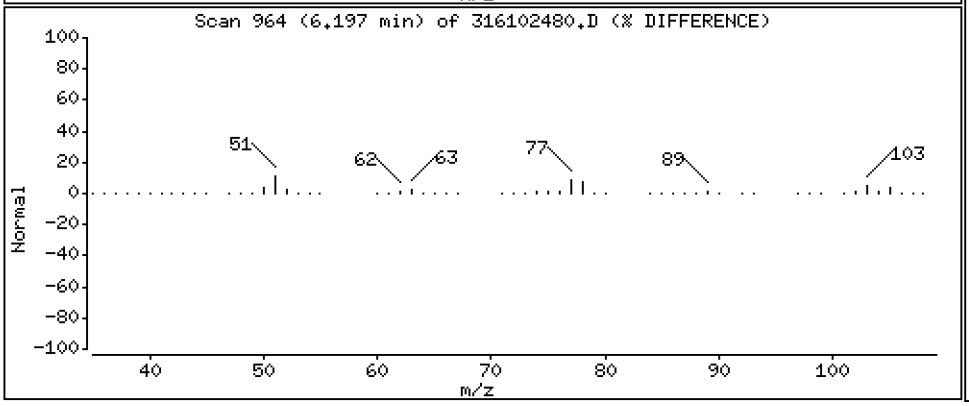
Column phase: DB-VRX Column diameter: 0.25

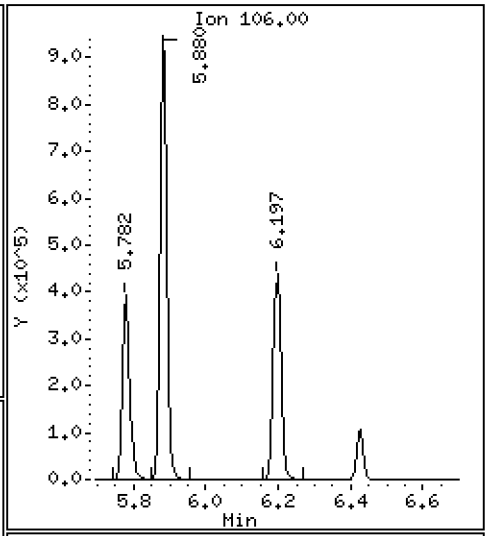
88 o-Xylene Concentration: 47.7682 ug/L

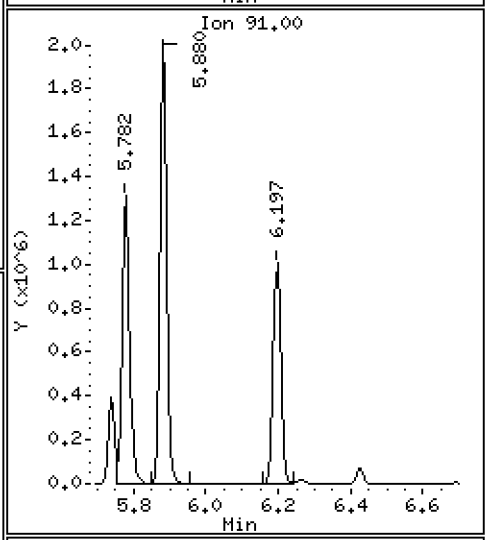


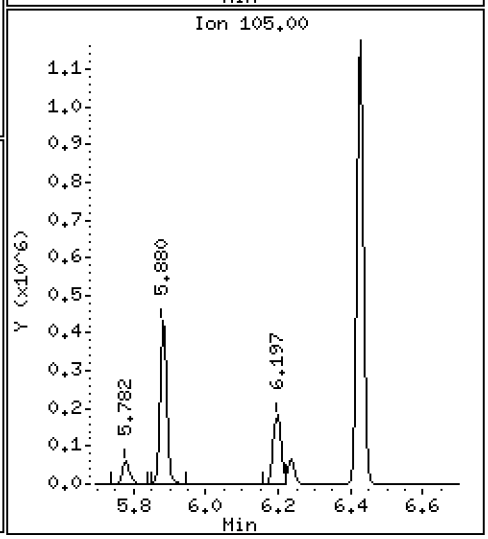












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 96

Date : 25-OCT-2016 09:17

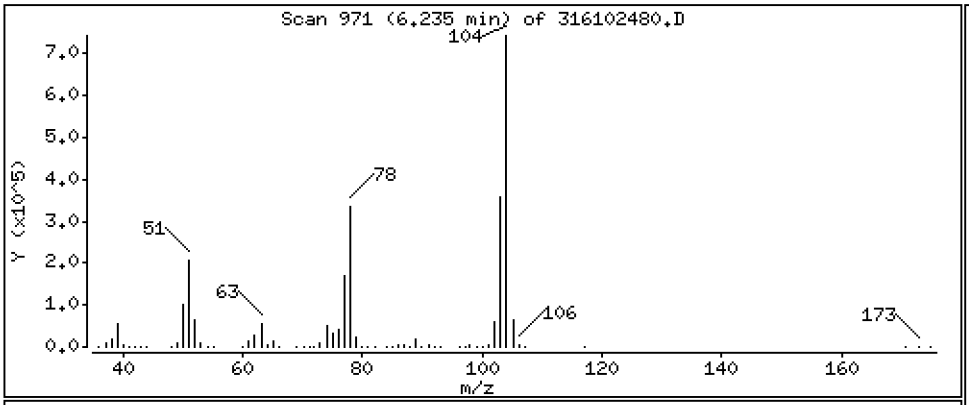
Client ID: Instrument: ms03.i

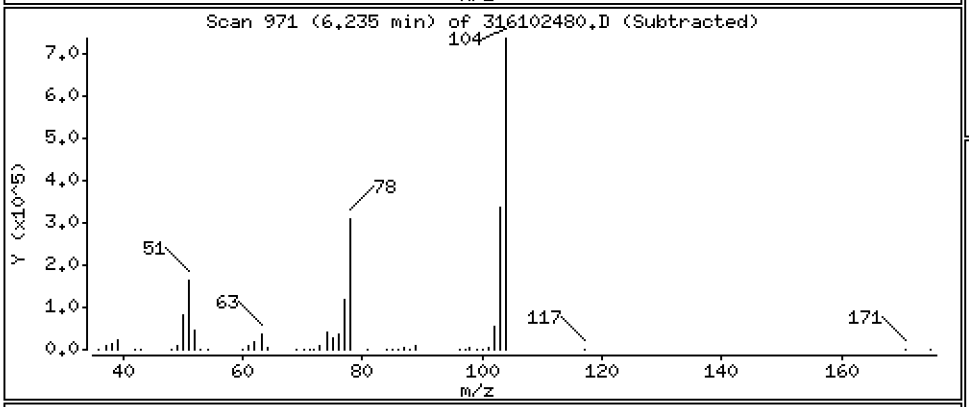
Sample Info: 1801;;1;2;4;;;

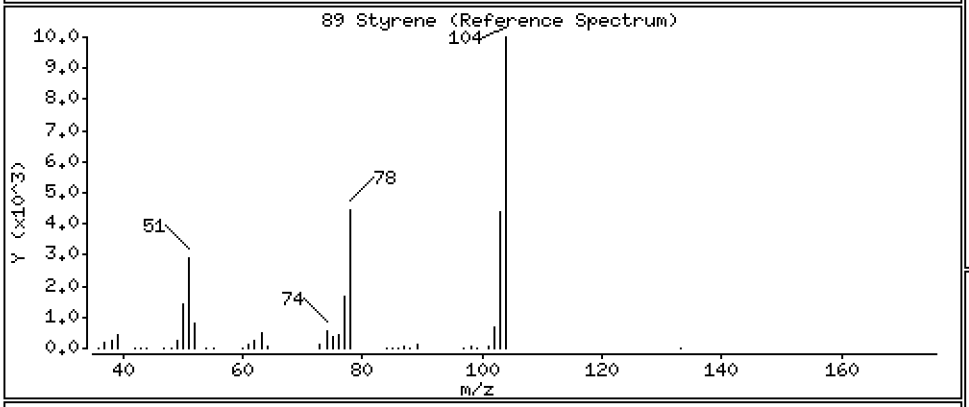
Purge Volume: 5.0 Operator: CJG

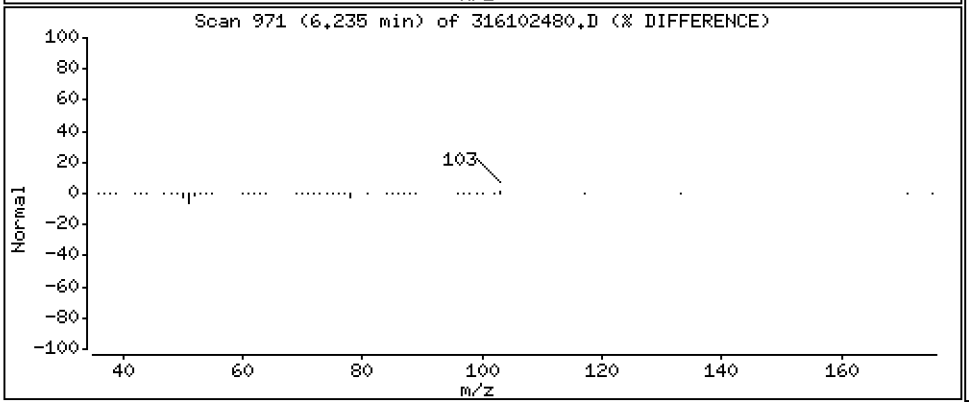
Column phase: DB-VRX Column diameter: 0.25

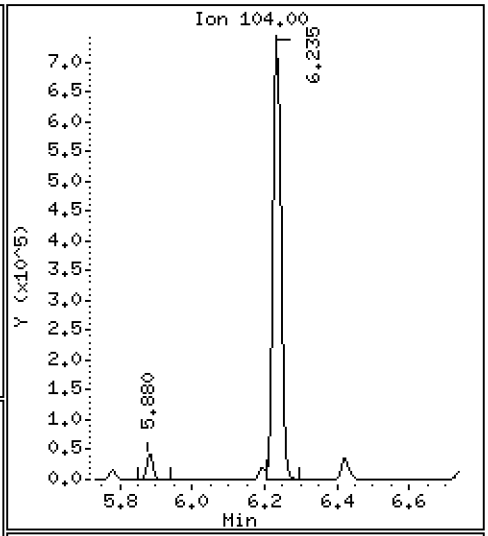
89 Styrene Concentration: 48.7807 ug/L

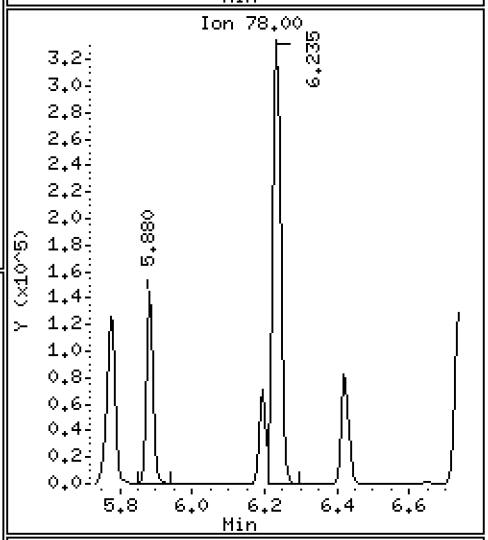


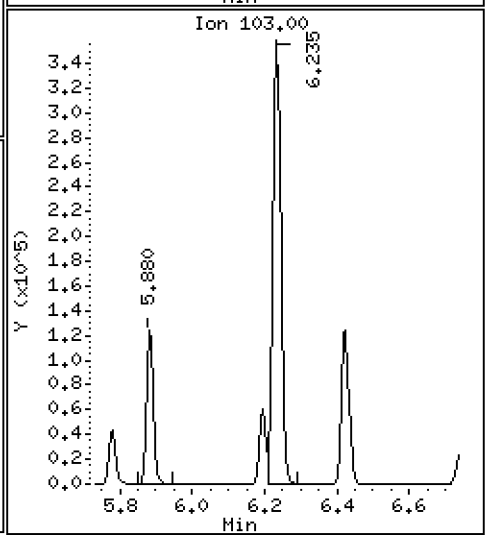












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 97

Date : 25-OCT-2016 09:17

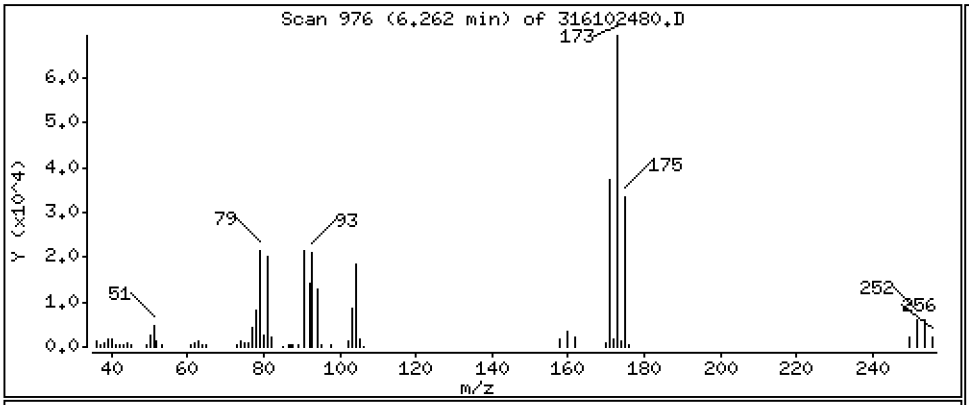
Client ID: Instrument: ms03.i

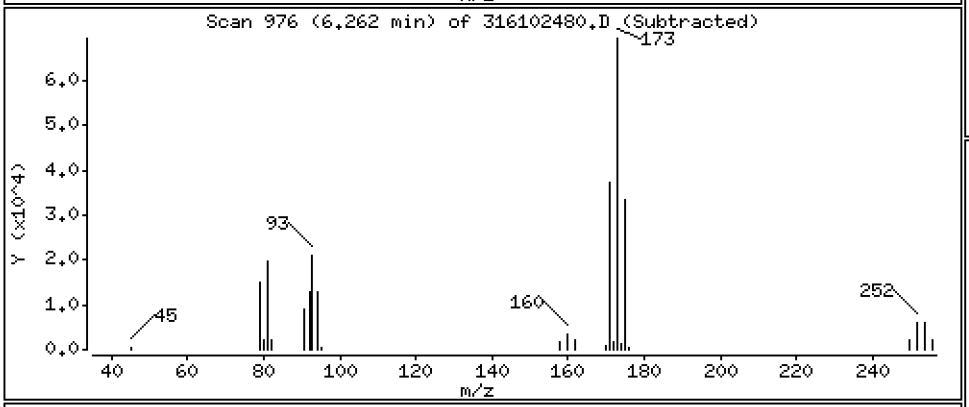
Sample Info: 1801;;1;2;4;;;

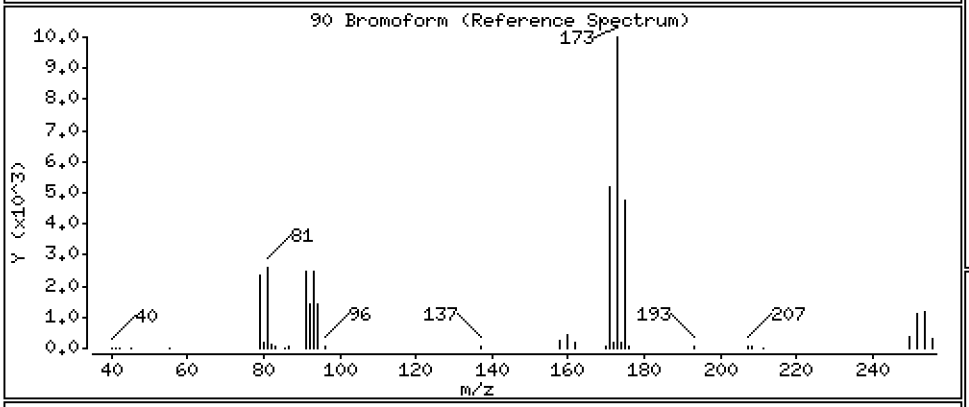
Purge Volume: 5.0 Operator: CJG

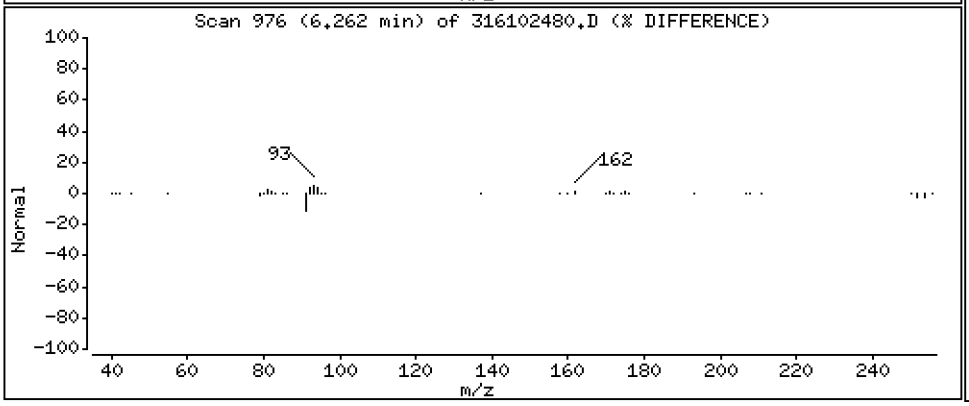
Column phase: DB-VRX Column diameter: 0.25

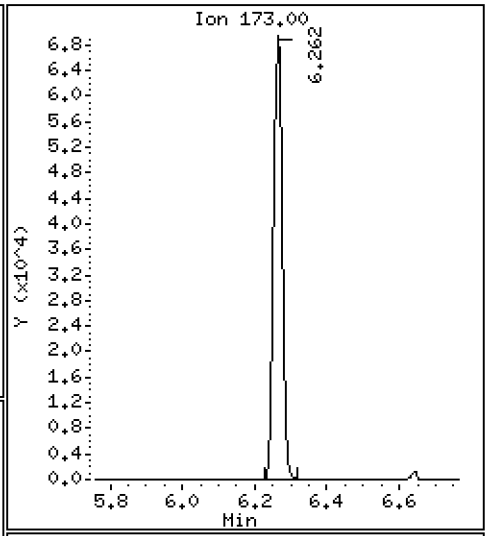
90 Bromoform Concentration: 39.6537 ug/L

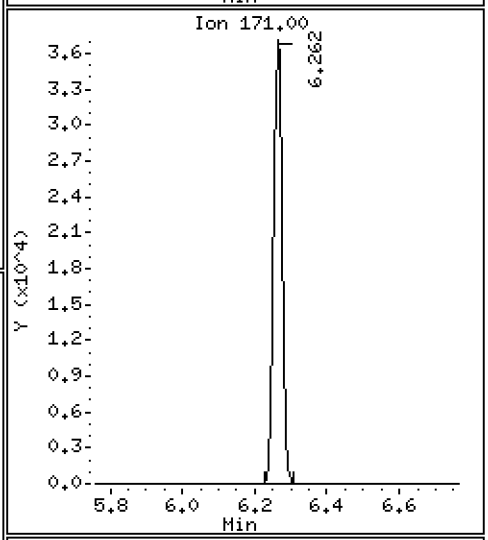


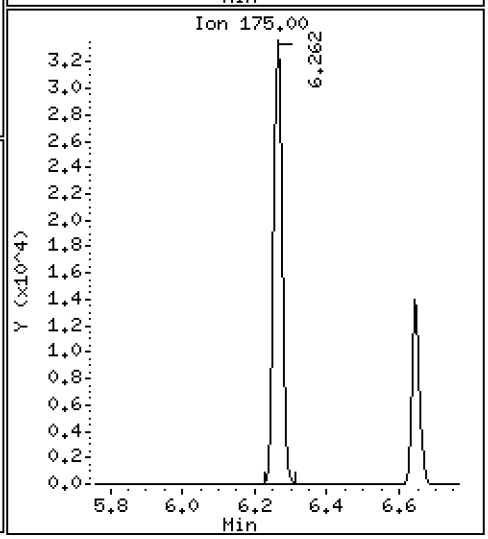












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 98

Date : 25-OCT-2016 09:17

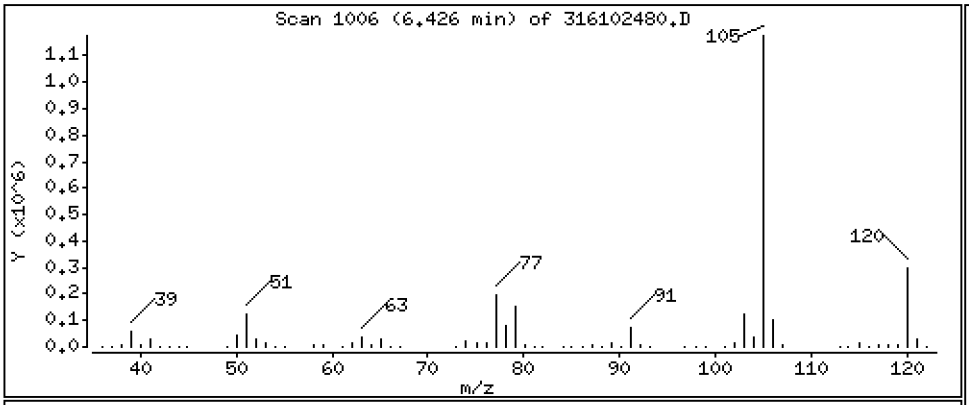
Client ID: Instrument: ms03.i

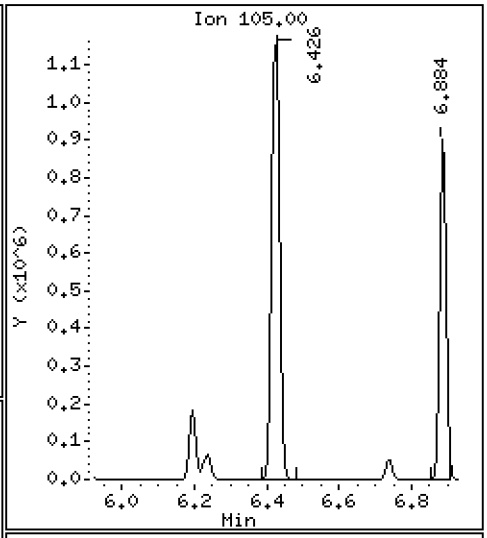
Sample Info: 1801;;1;2;4;;;

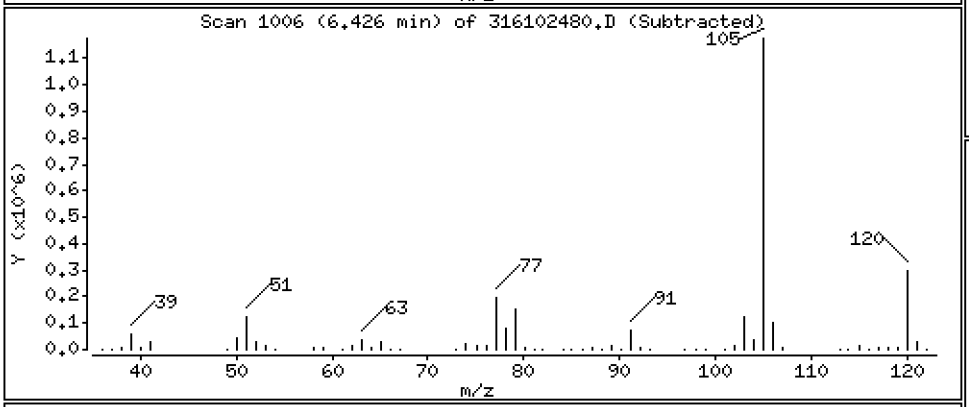
Purge Volume: 5.0 Operator: CJG

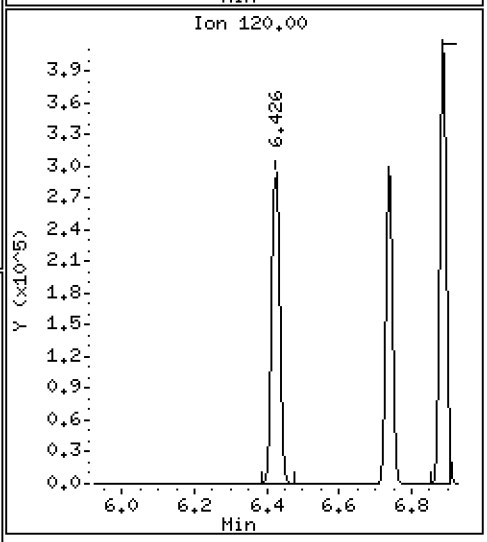
Column phase: DB-VRX Column diameter: 0.25

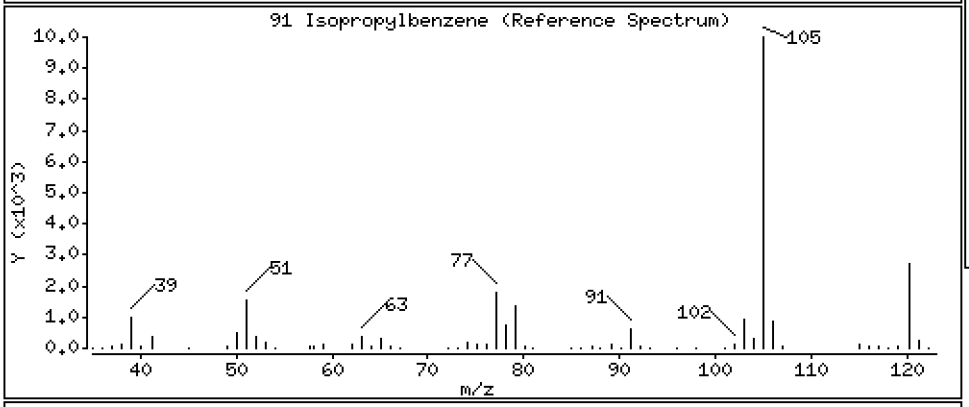
91 Isopropylbenzene Concentration: 47.2391 ug/L

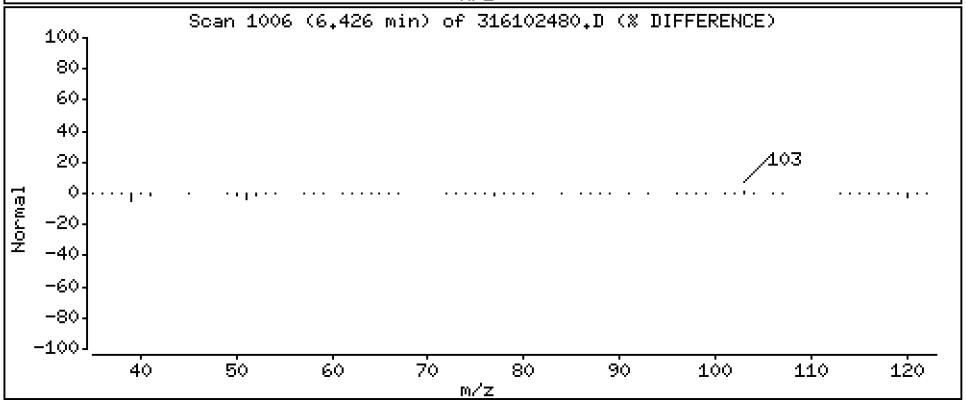












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 99

Date : 25-OCT-2016 09:17

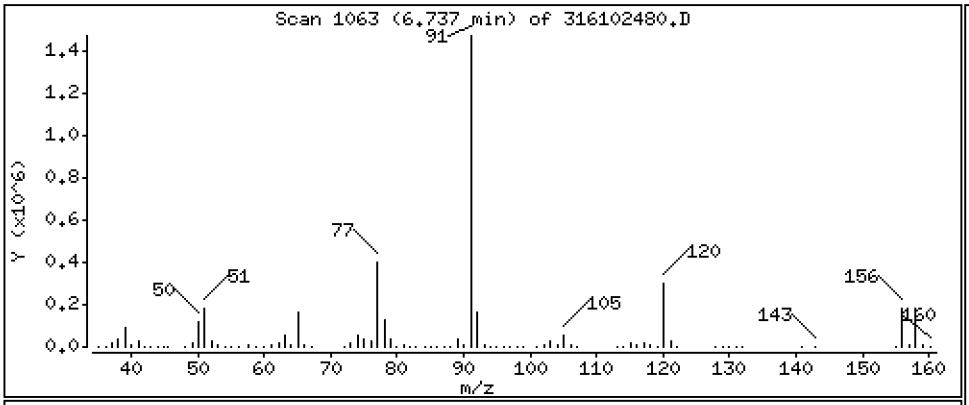
Client ID: Instrument: ms03.i

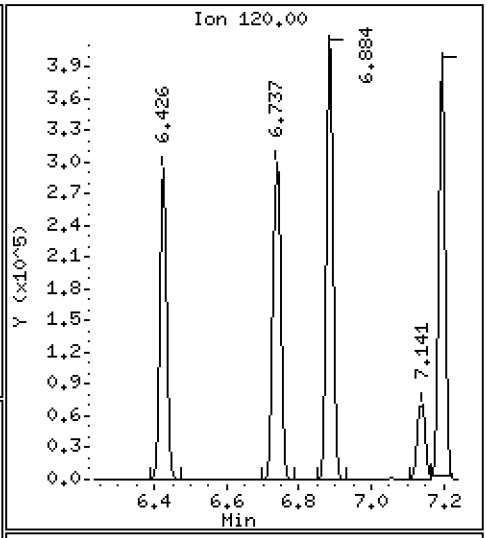
Sample Info: 1801;;1;2;4;;;

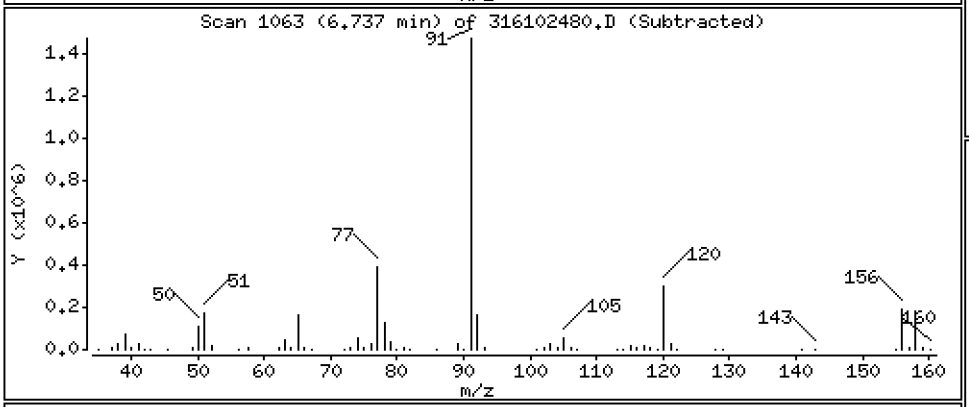
Purge Volume: 5.0 Operator: CJG

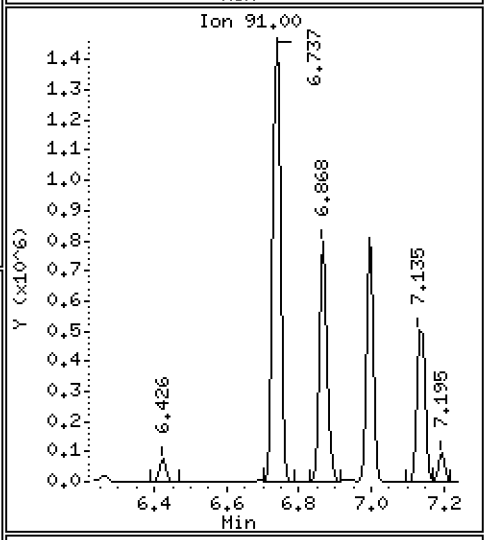
Column phase: DB-VRX Column diameter: 0.25

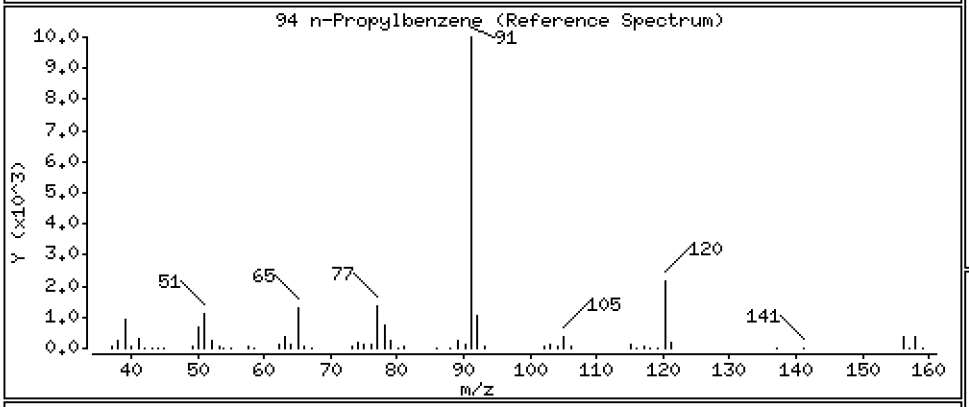
94 n-Propylbenzene Concentration: 47.9833 ug/L

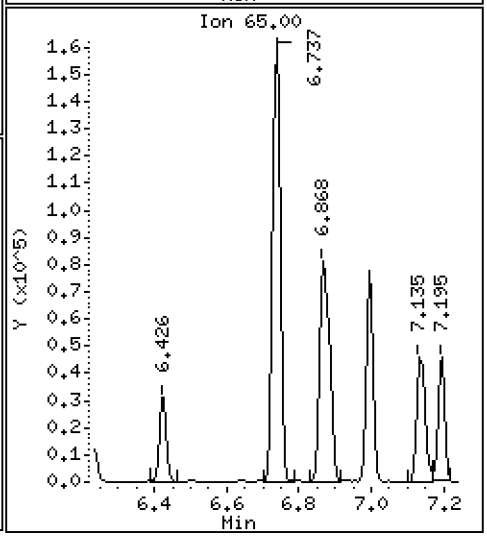


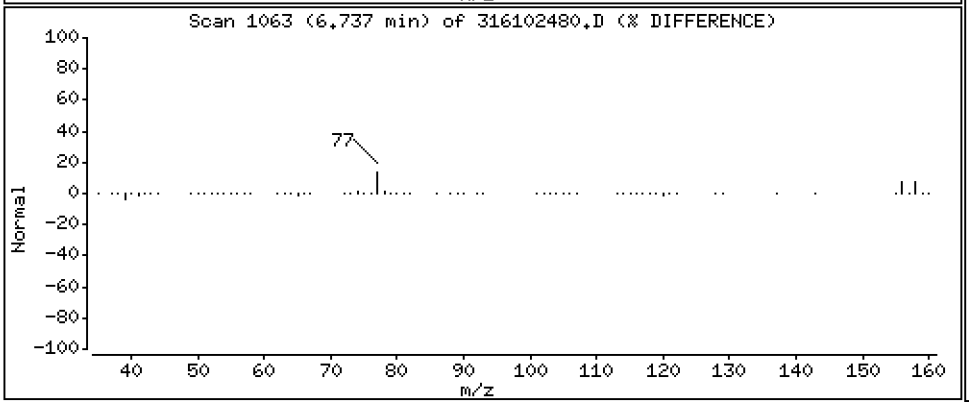












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 100

Date : 25-OCT-2016 09:17

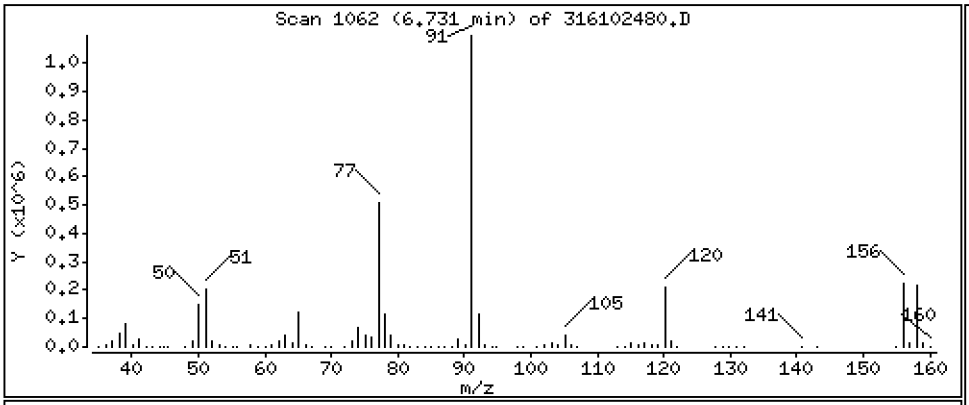
Client ID: Instrument: ms03.i

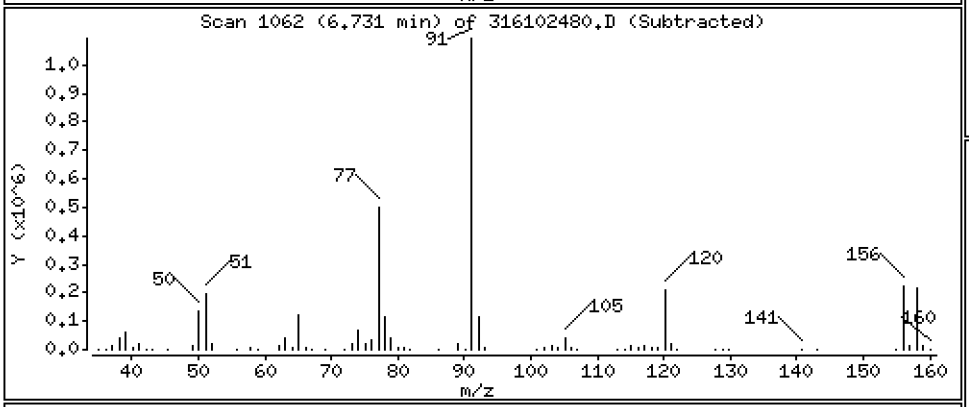
Sample Info: 1801;;1;2;4;;;

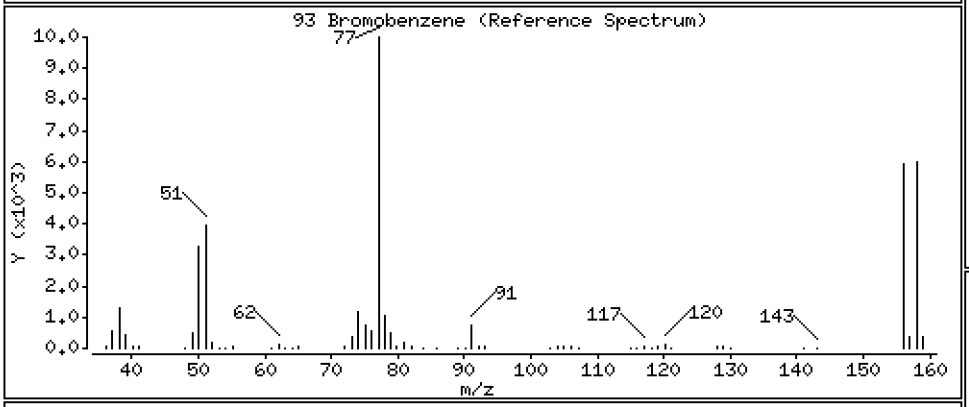
Purge Volume: 5.0 Operator: CJG

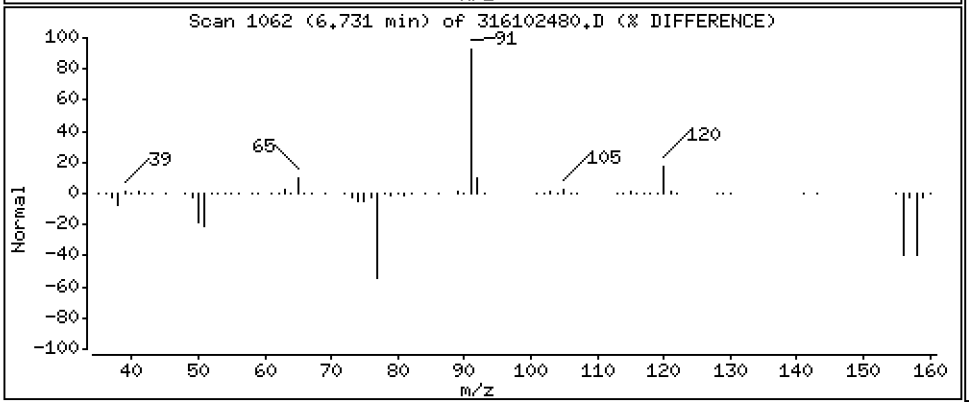
Column phase: DB-VRX Column diameter: 0.25

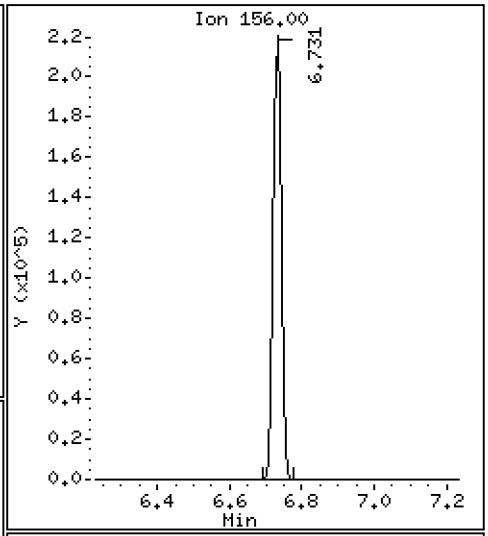
93 Bromobenzene Concentration: 43.9073 ug/L

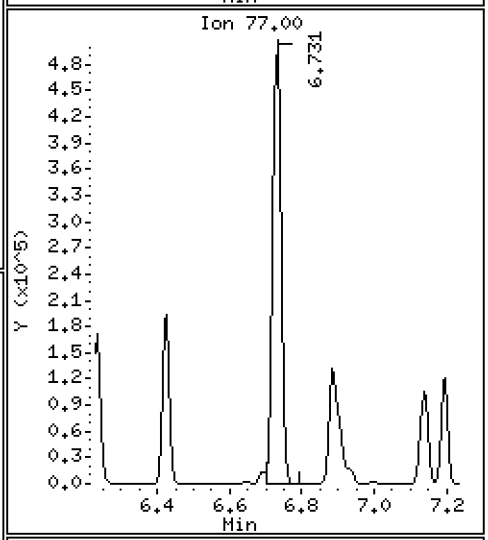


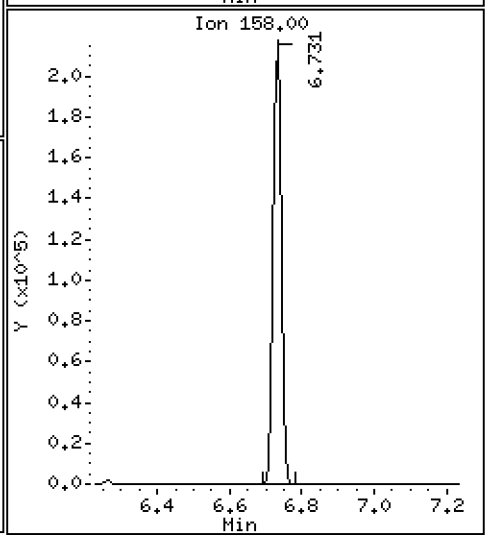












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 101

Date : 25-OCT-2016 09:17

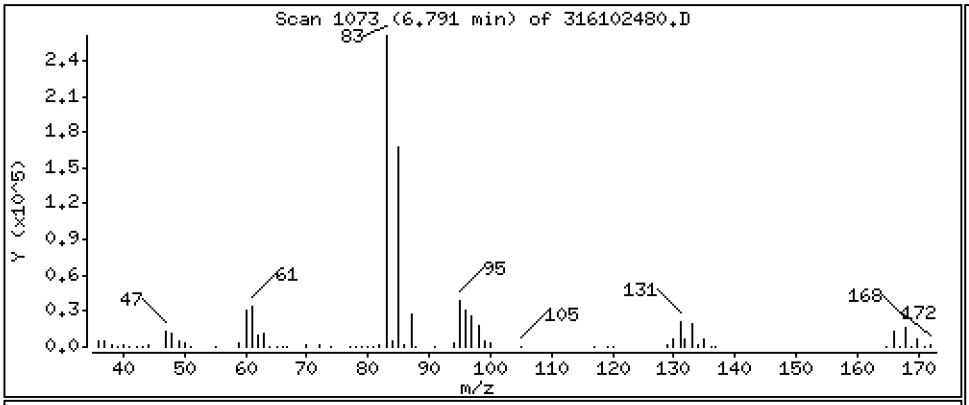
Client ID: Instrument: ms03.i

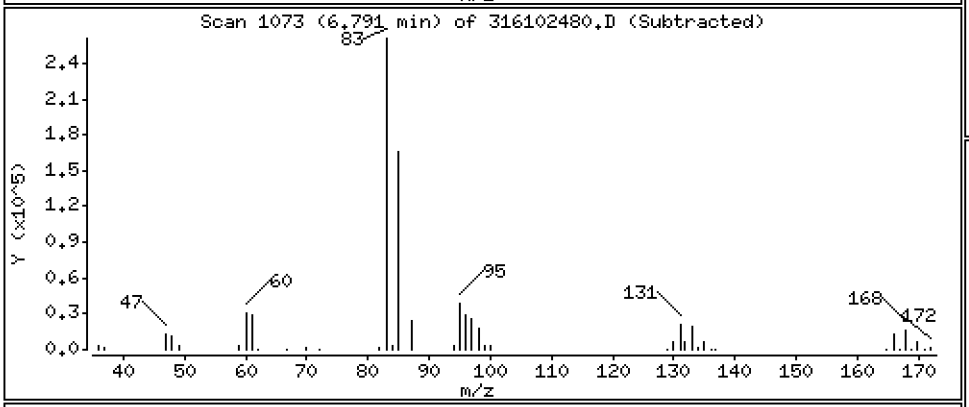
Sample Info: 1801;;1;2;4;;;

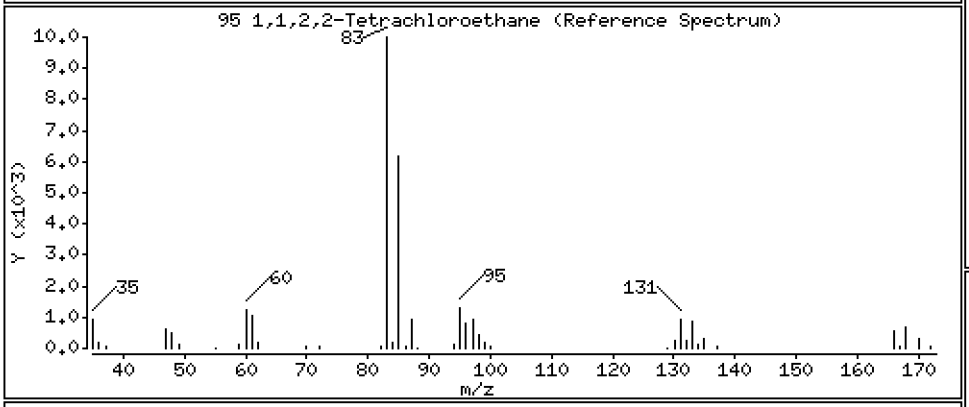
Purge Volume: 5.0 Operator: CJG

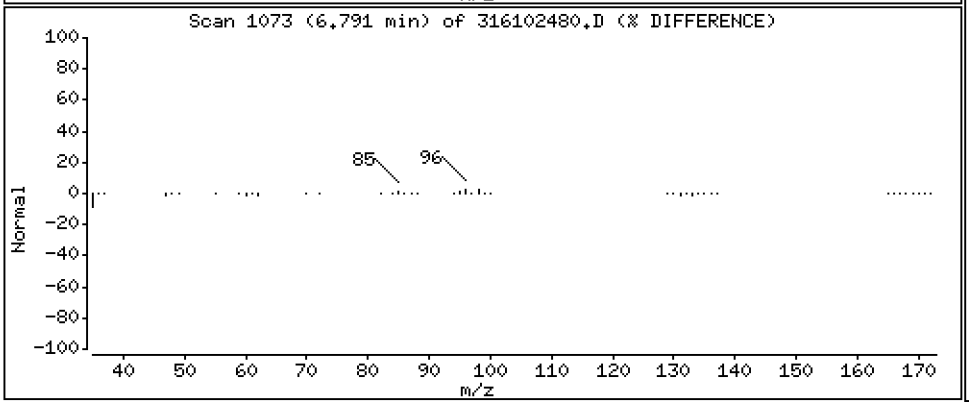
Column phase: DB-VRX Column diameter: 0.25

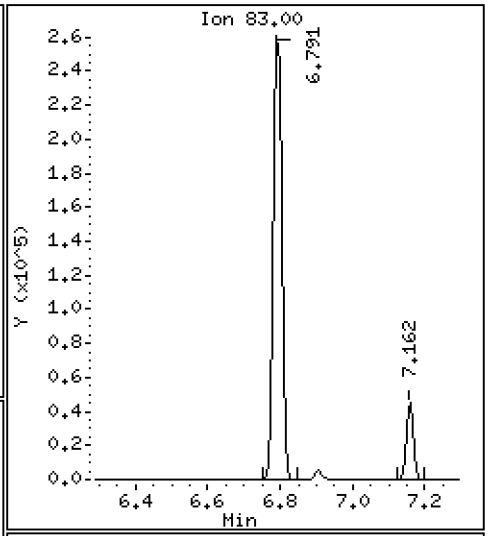
95 1,1,2,2-Tetrachloroethane Concentration: 46.4111 ug/L

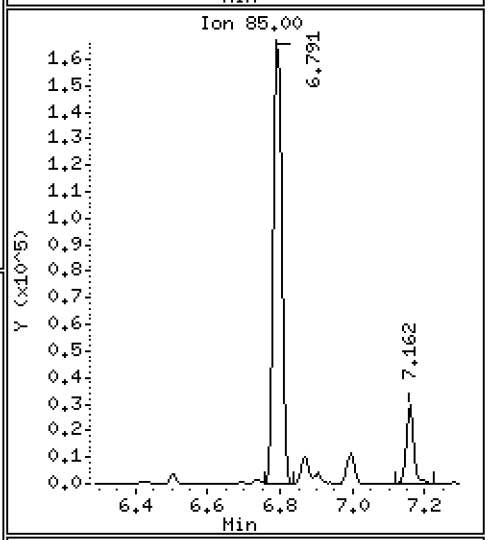


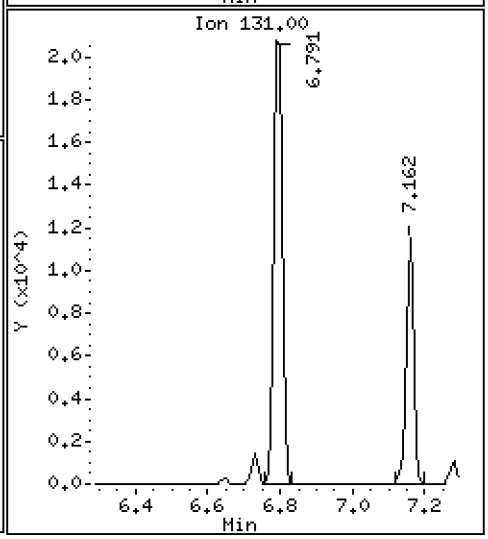












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 102

Date : 25-OCT-2016 09:17

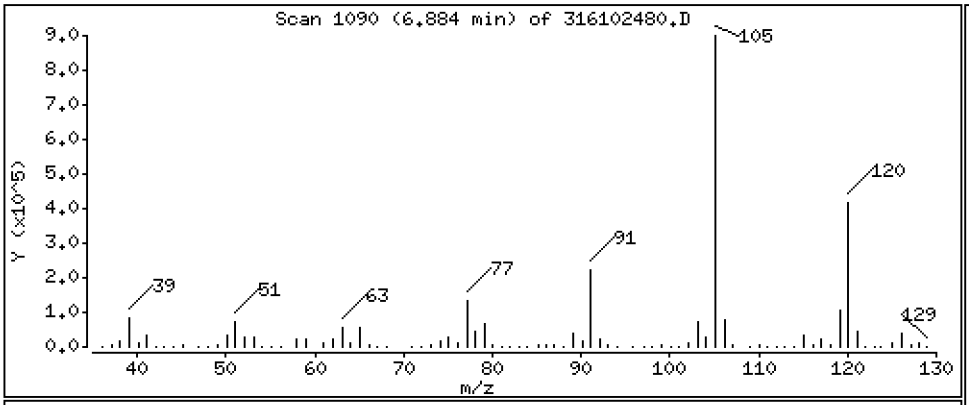
Client ID: Instrument: ms03.i

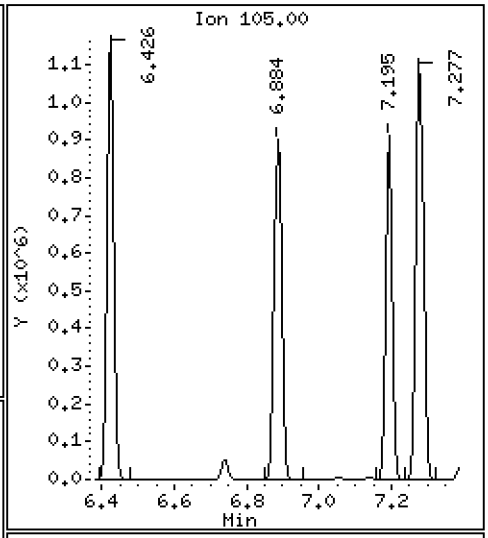
Sample Info: 1801;;1;2;4;;;

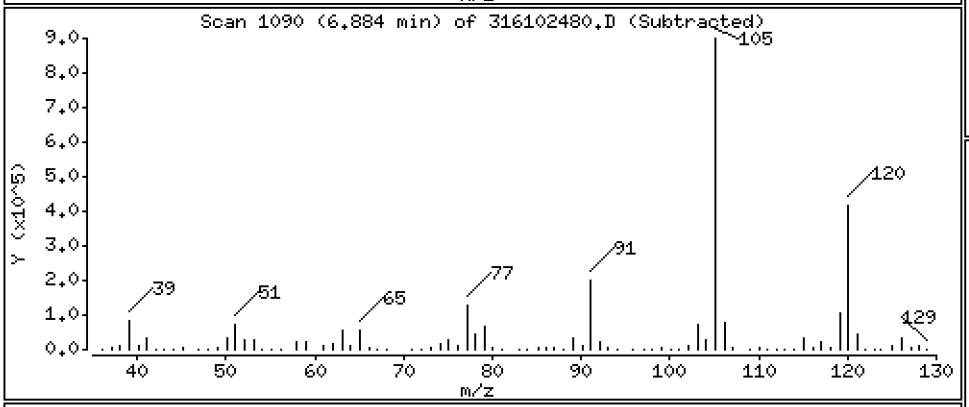
Purge Volume: 5.0 Operator: CJG

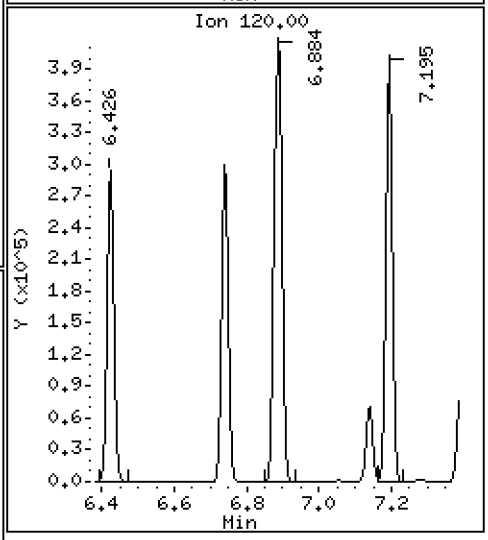
Column phase: DB-VRX Column diameter: 0.25

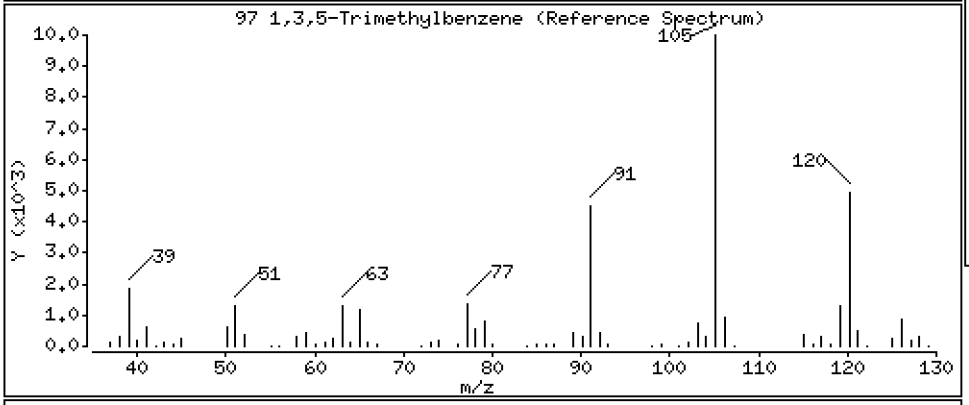
97 1,3,5-Trimethylbenzene Concentration: 48.9293 ug/L

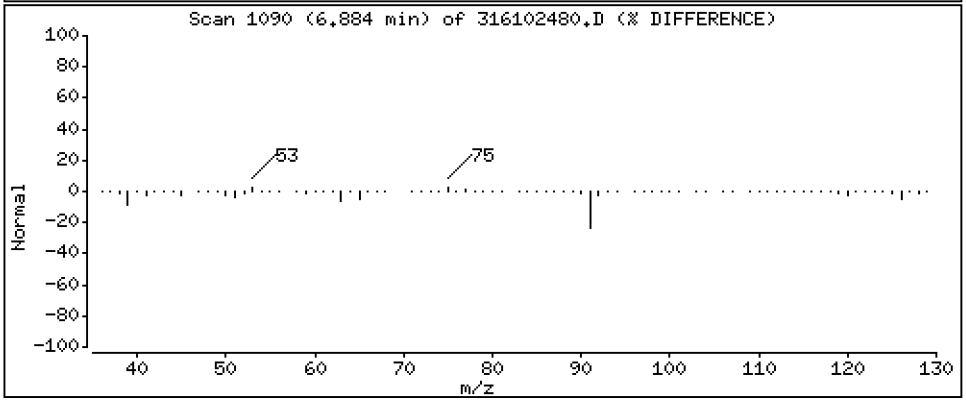












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 103

Date : 25-OCT-2016 09:17

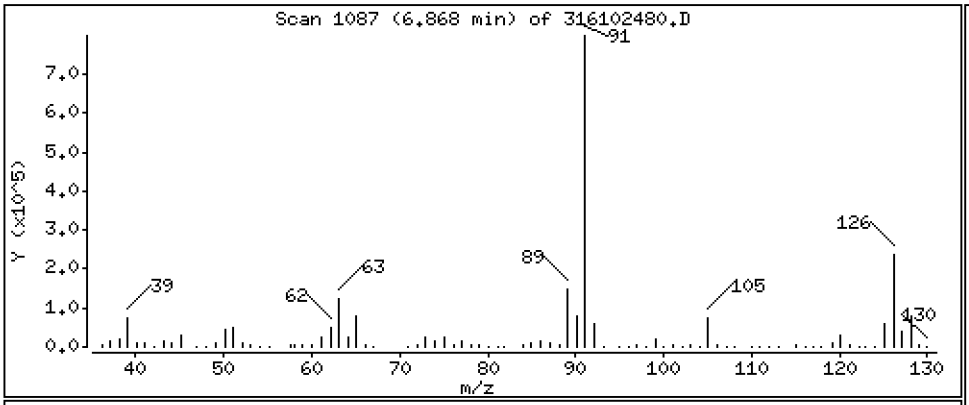
Client ID: Instrument: ms03.i

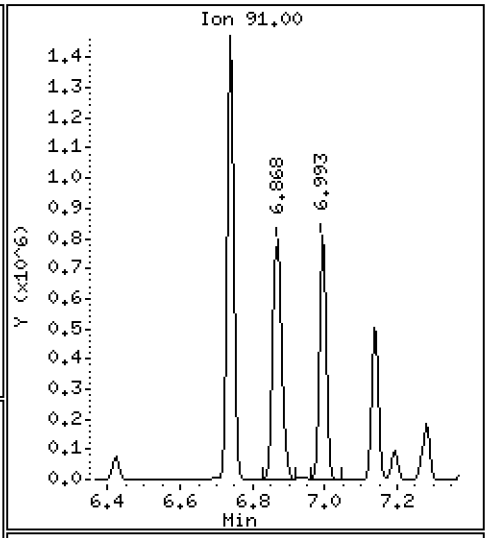
Sample Info: 1801;;1;2;4;;;

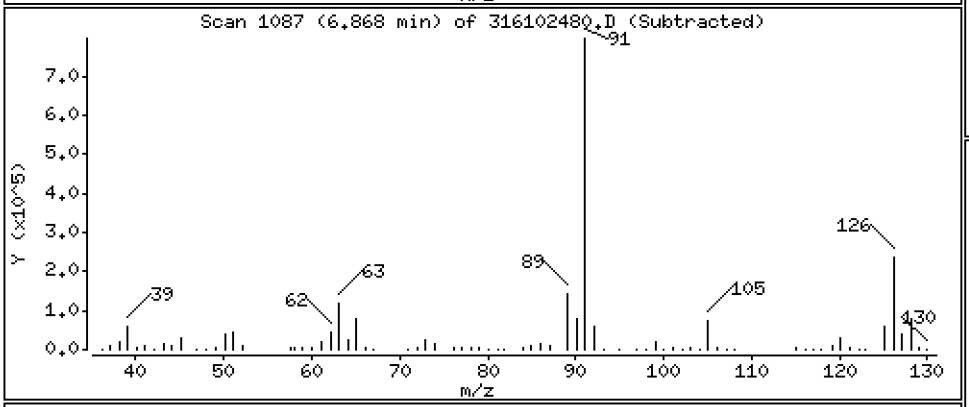
Purge Volume: 5.0 Operator: CJG

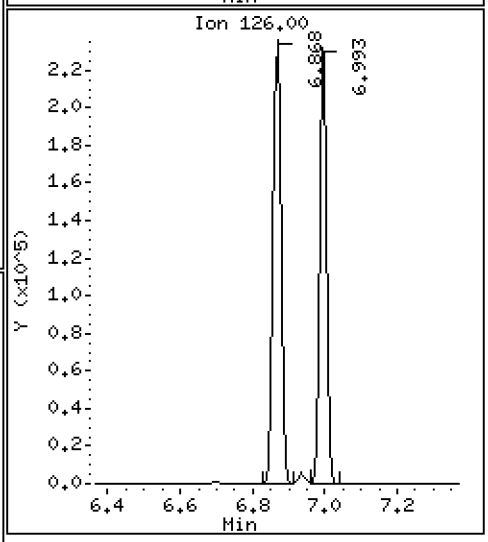
Column phase: DB-VRX Column diameter: 0.25

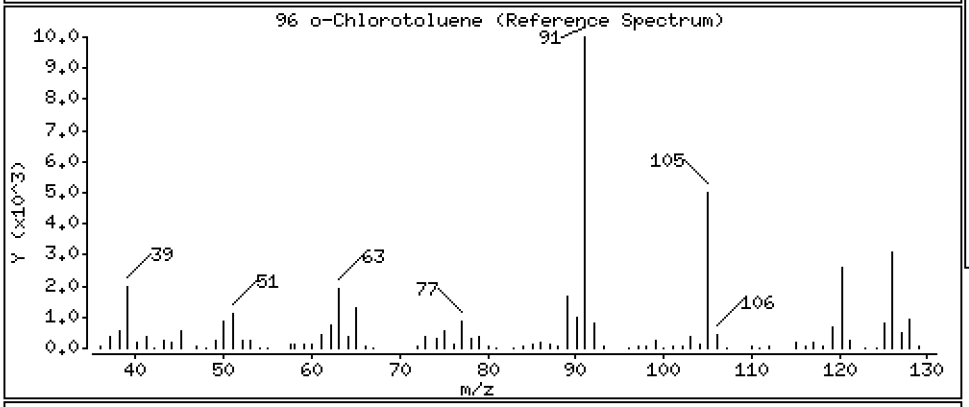
96 o-Chlorotoluene Concentration: 46.6857 ug/L

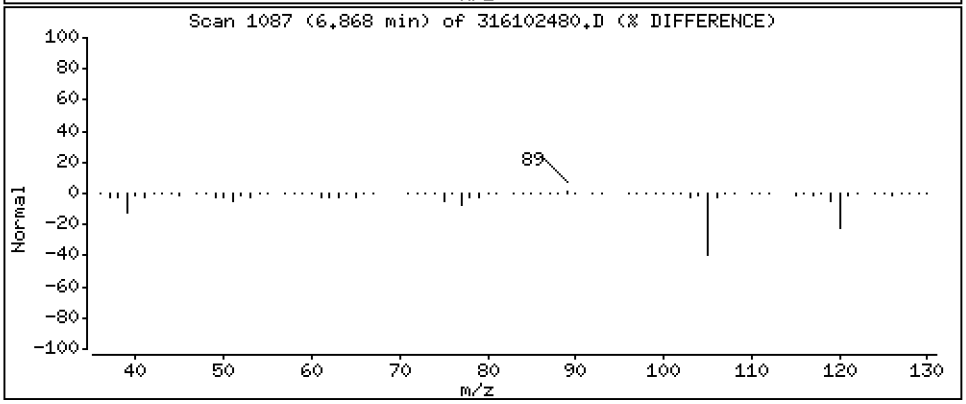












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 104

Date : 25-OCT-2016 09:17

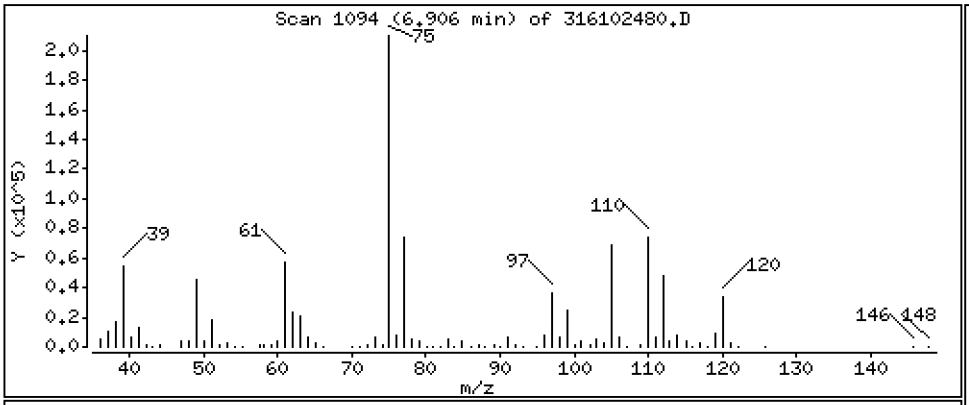
Client ID: Instrument: ms03.i

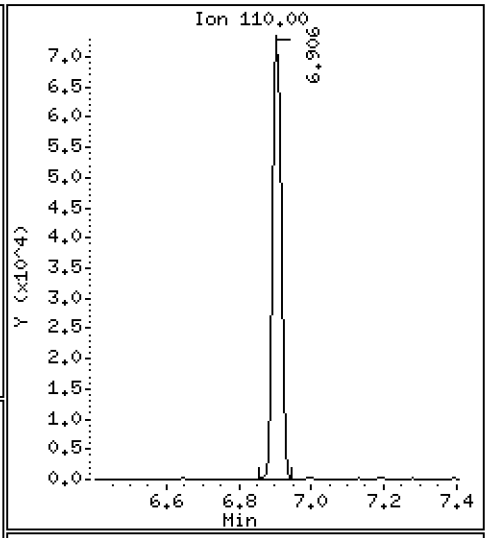
Sample Info: 1801;;1;2;4;;;

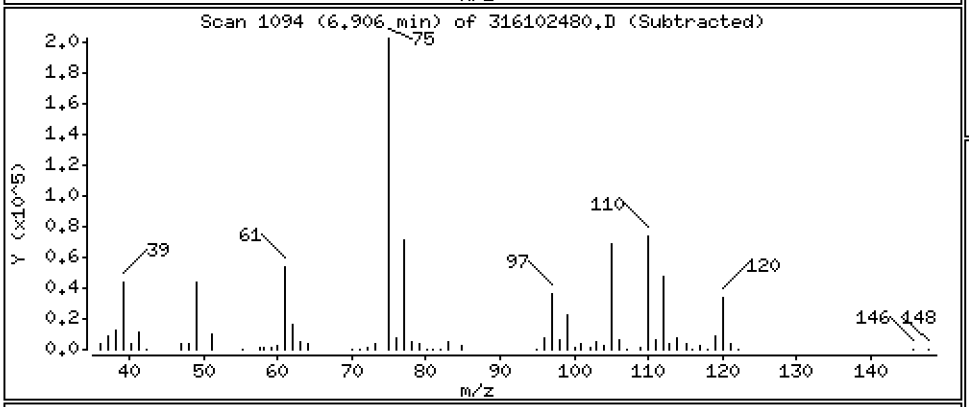
Purge Volume: 5.0 Operator: CJG

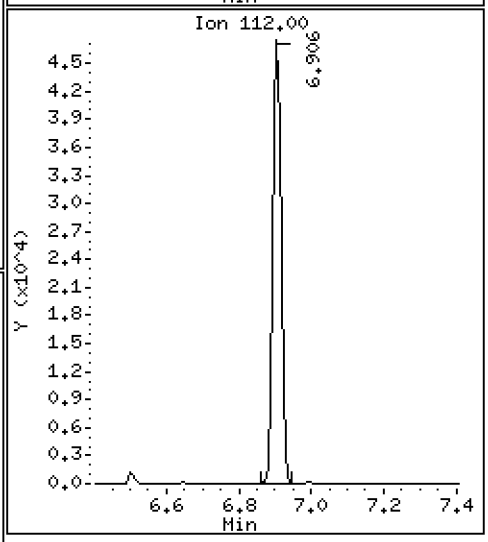
Column phase: DB-VRX Column diameter: 0.25

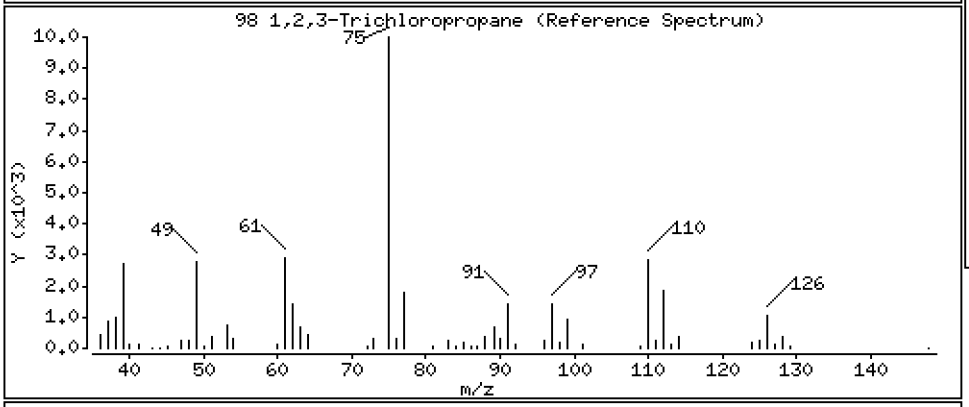
98 1,2,3-Trichloropropane Concentration: 44.8027 ug/L

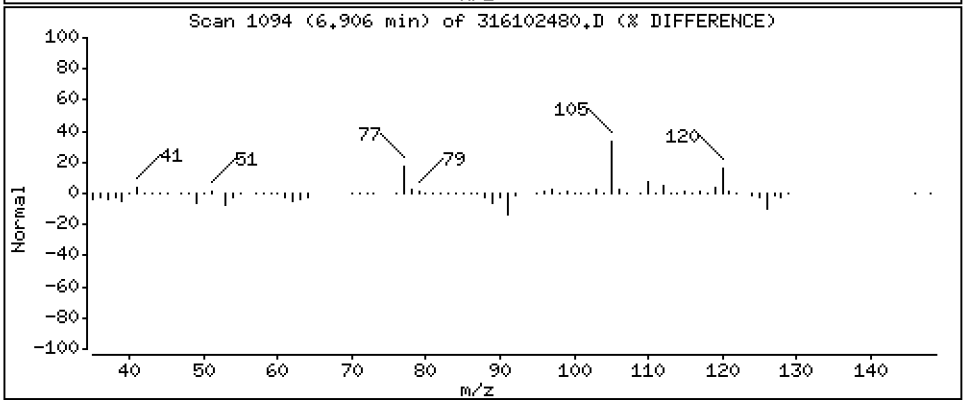












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 105

Date : 25-OCT-2016 09:17

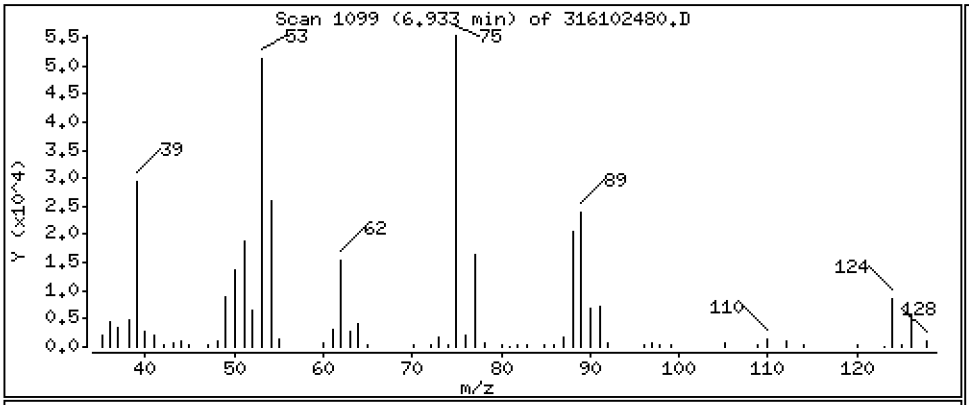
Client ID: Instrument: ms03.i

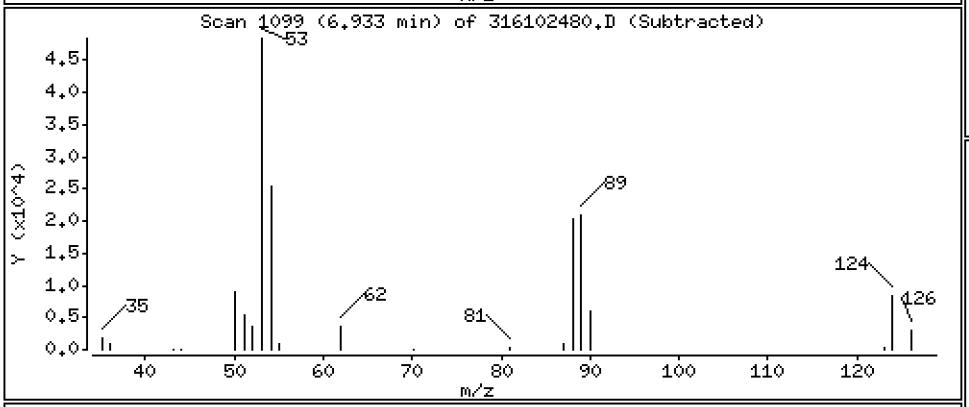
Sample Info: 1801;;1;2;4;;;

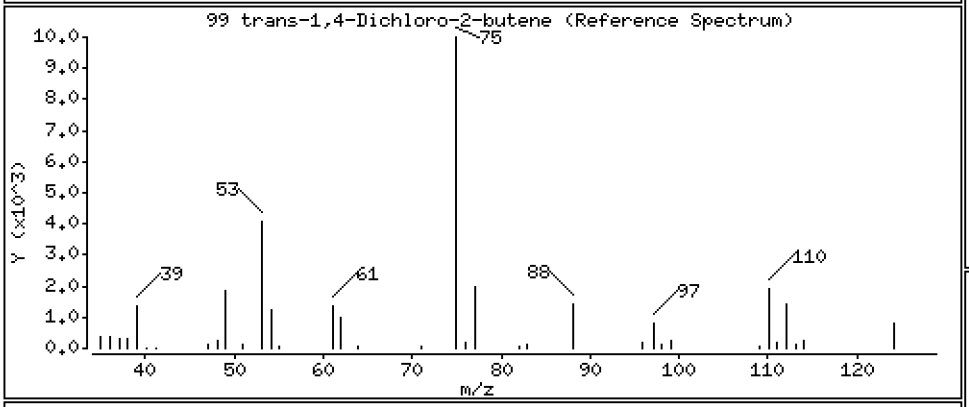
Purge Volume: 5.0 Operator: CJG

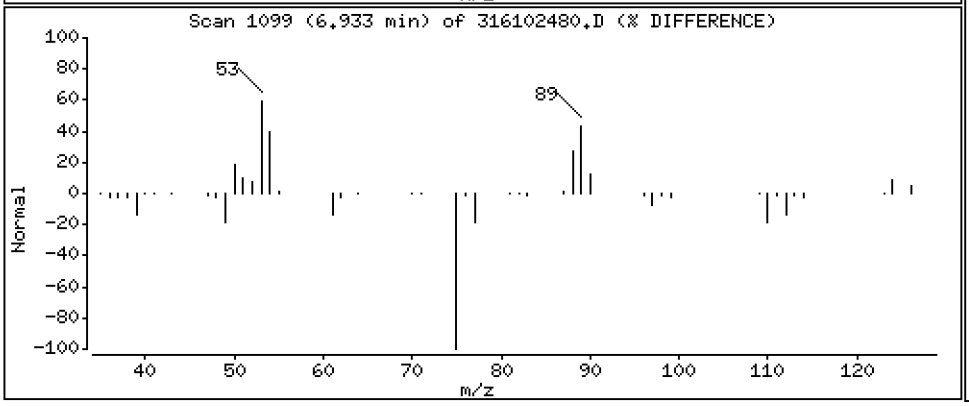
Column phase: DB-VRX Column diameter: 0.25

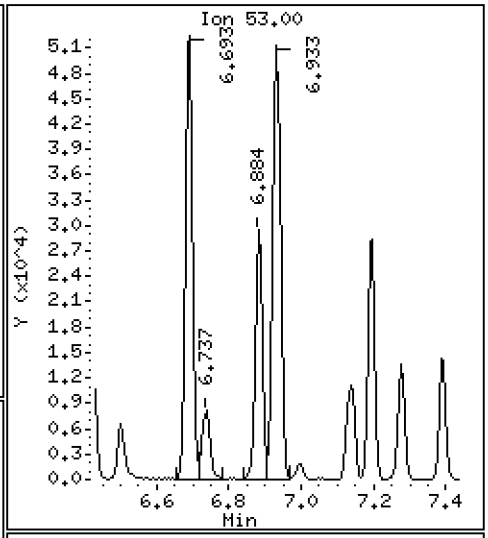
99 trans-1,4-Dichloro-2-butene Concentration: 36.1748 ug/L

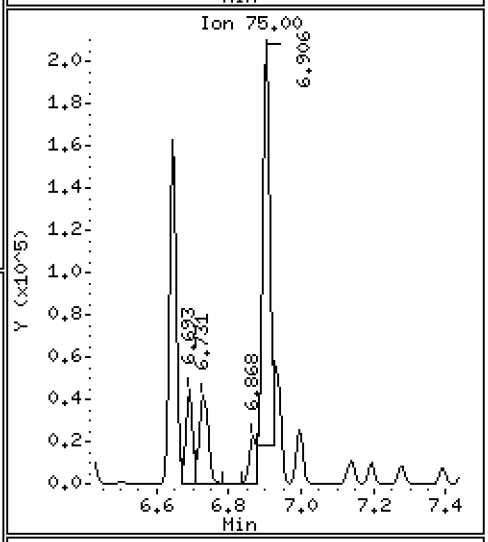


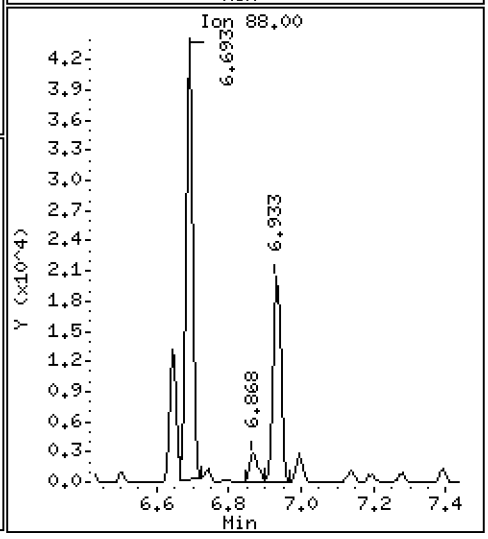












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 106

Date : 25-OCT-2016 09:17

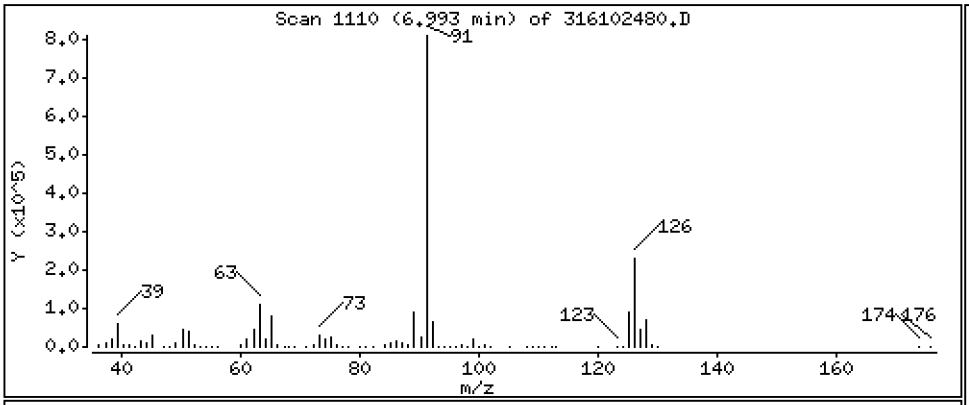
Client ID: Instrument: ms03.i

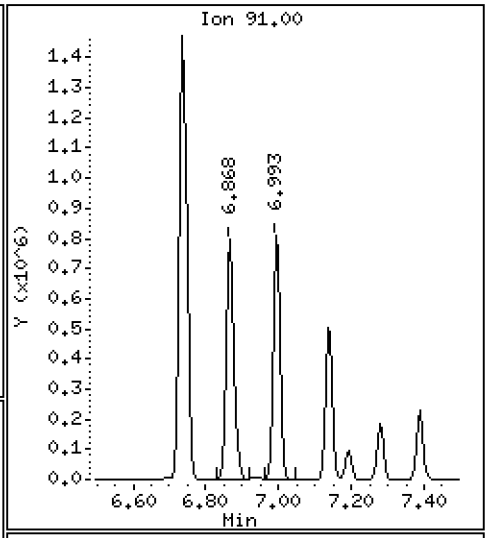
Sample Info: 1801;;1;2;4;;;

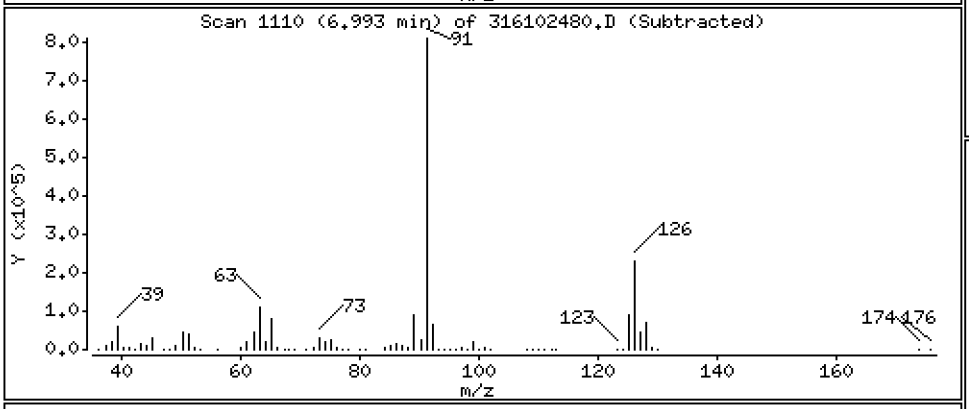
Purge Volume: 5.0 Operator: CJG

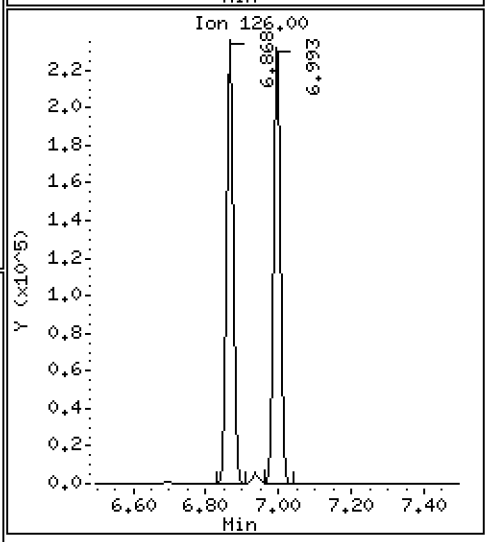
Column phase: DB-VRX Column diameter: 0.25

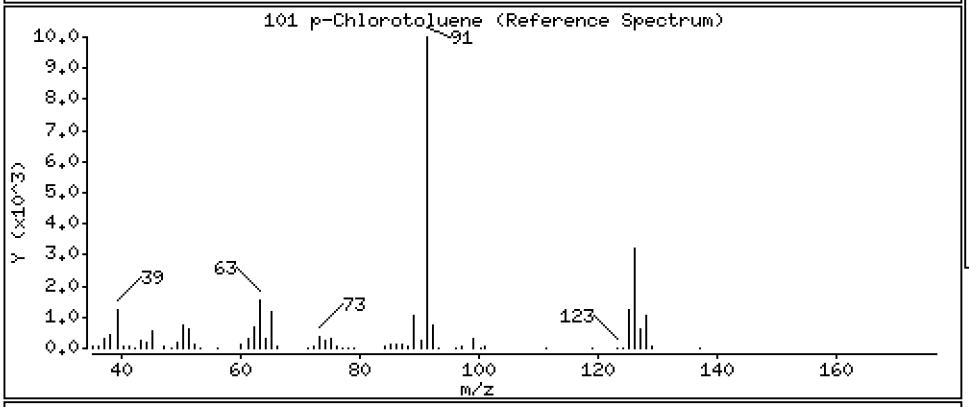
101 p-Chlorotoluene Concentration: 46.5669 ug/L

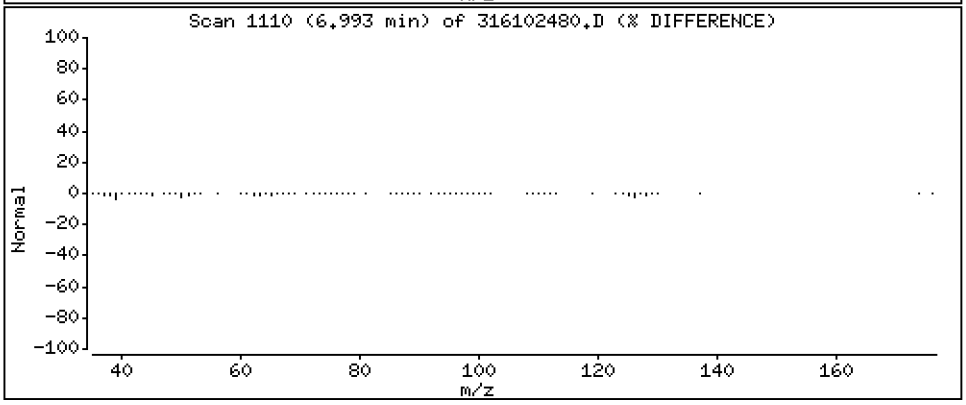












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 107

Date : 25-OCT-2016 09:17

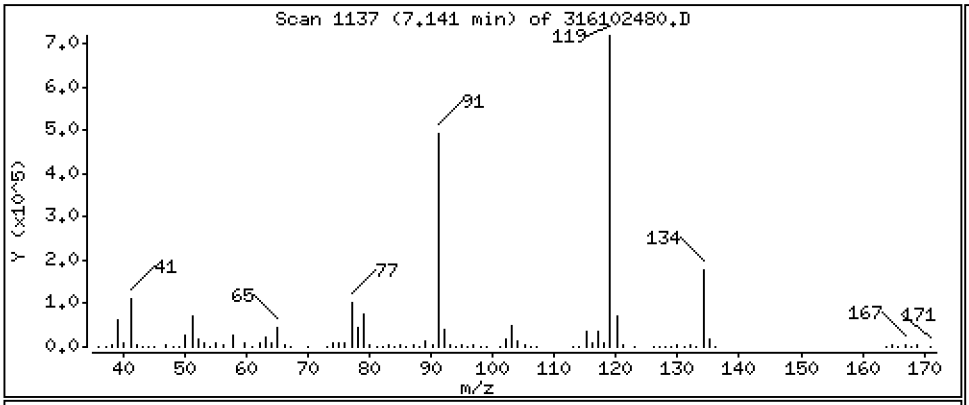
Client ID: Instrument: ms03.i

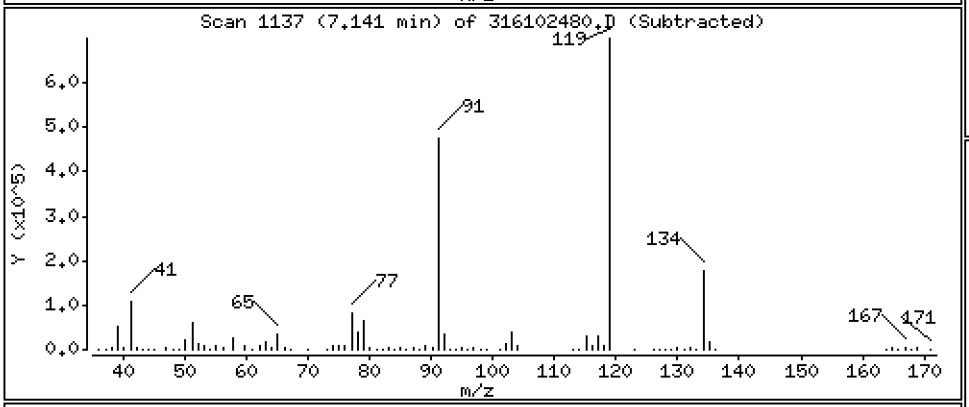
Sample Info: 1801;;1;2;4;;;

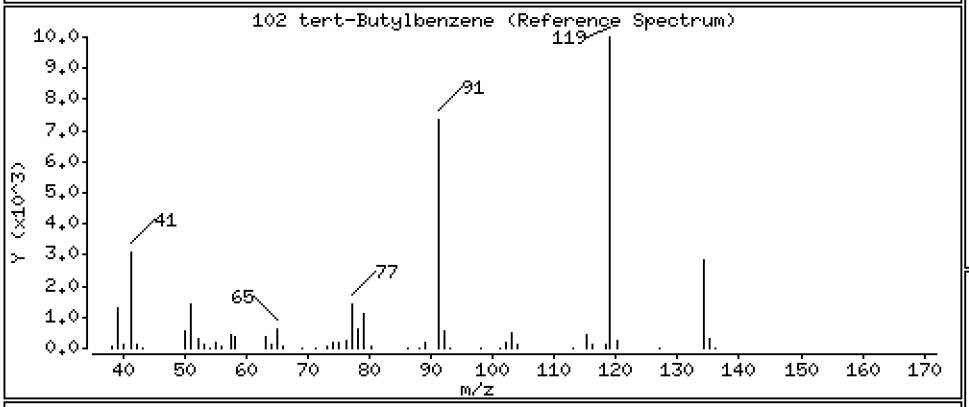
Purge Volume: 5.0 Operator: CJG

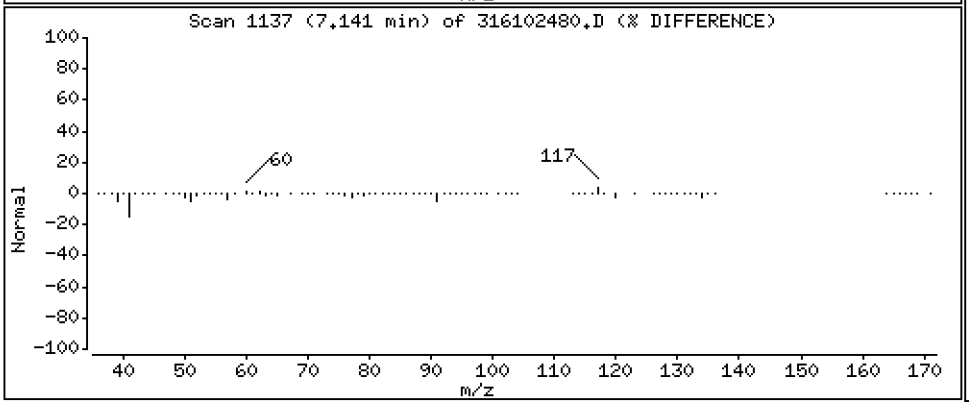
Column phase: DB-VRX Column diameter: 0.25

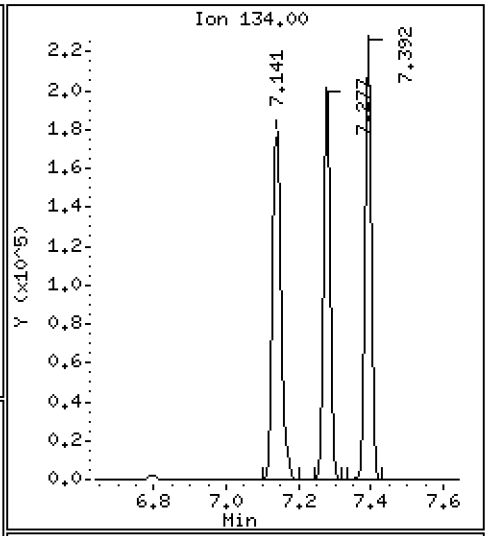
102 tert-Butylbenzene Concentration: 47.3931 ug/L

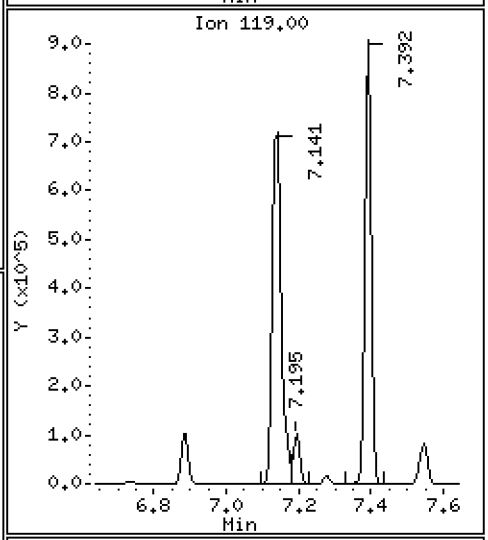


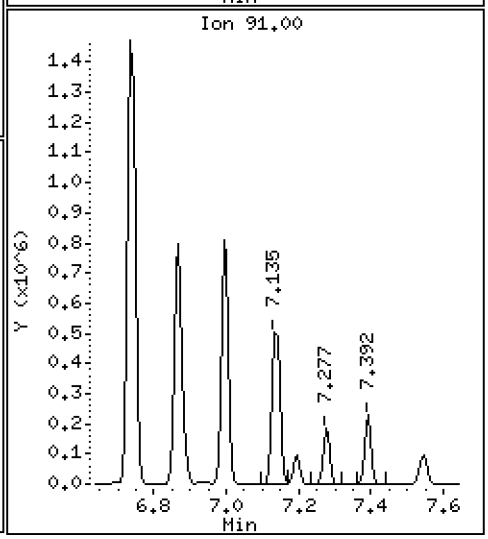












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 108

Date : 25-OCT-2016 09:17

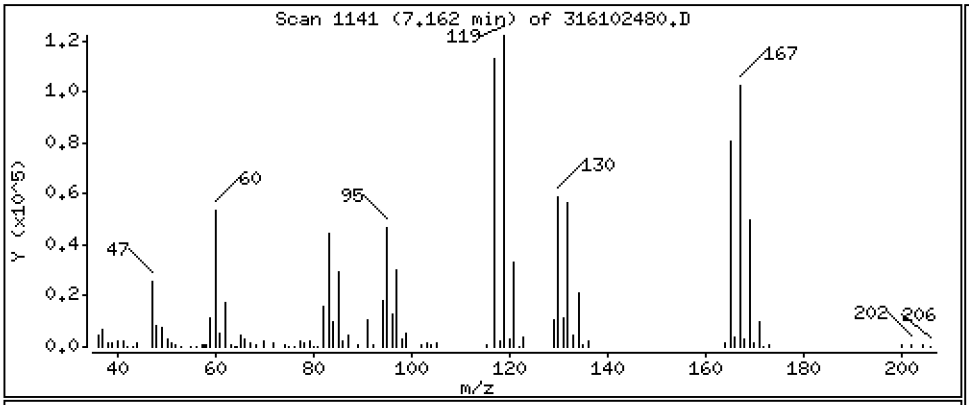
Client ID: Instrument: ms03.i

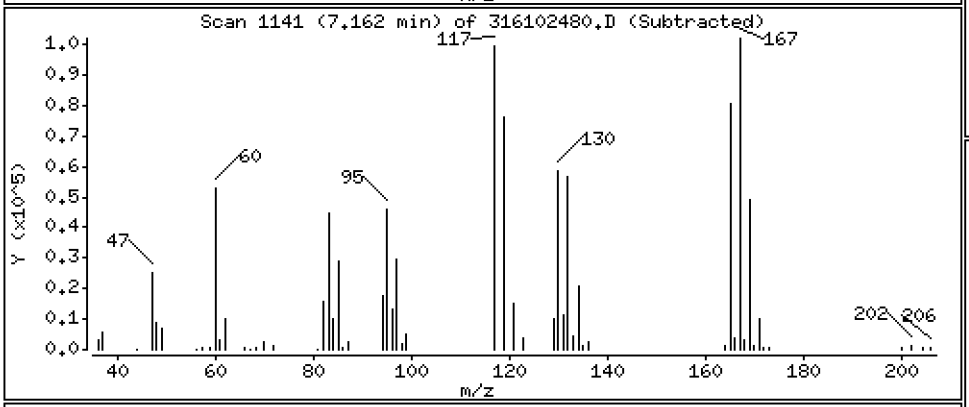
Sample Info: 1801;;1;2;4;;;

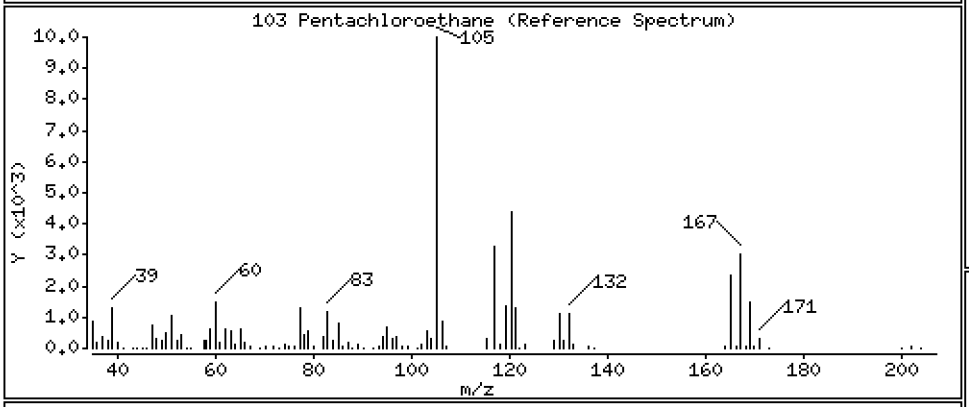
Purge Volume: 5.0 Operator: CJG

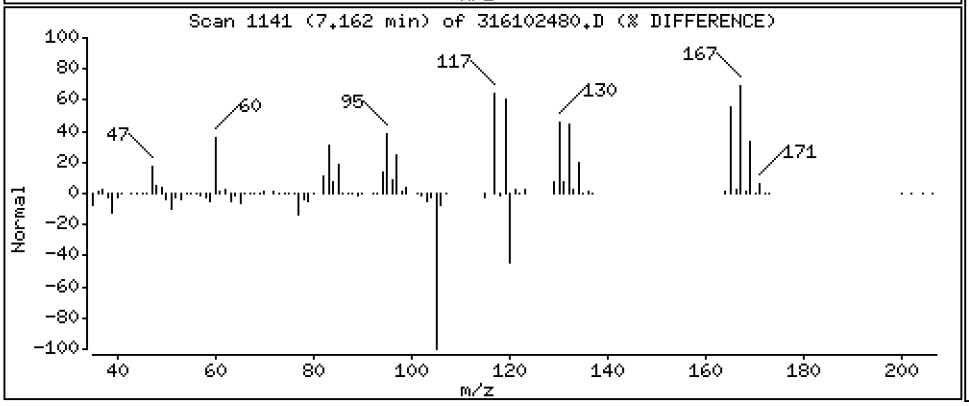
Column phase: DB-VRX Column diameter: 0.25

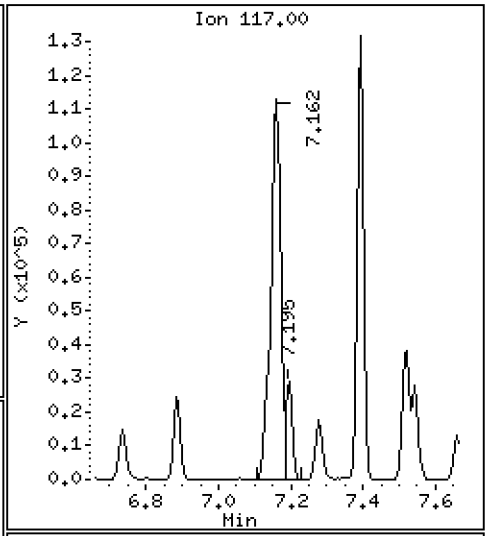
103 Pentachloroethane Concentration: 43.9195 ug/L

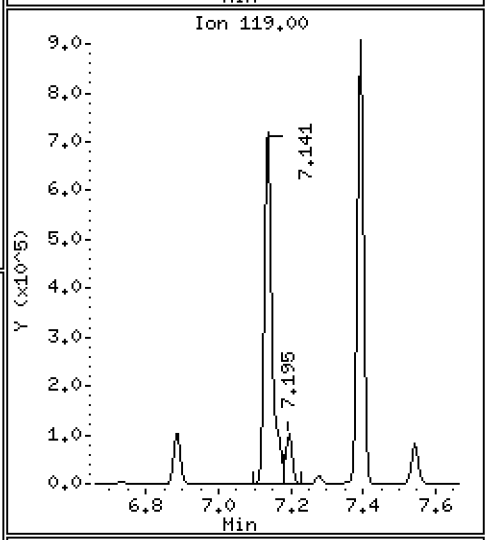


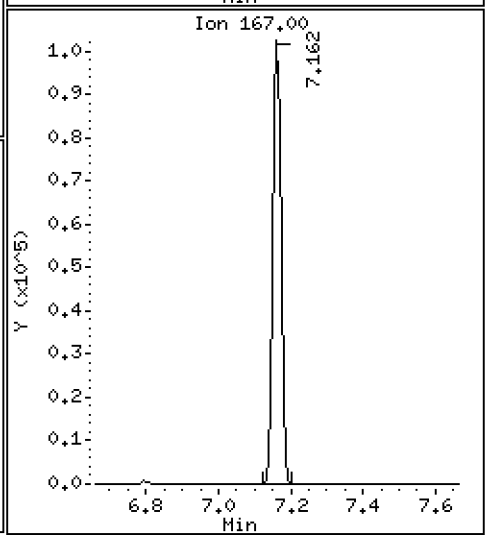












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 109

Date : 25-OCT-2016 09:17

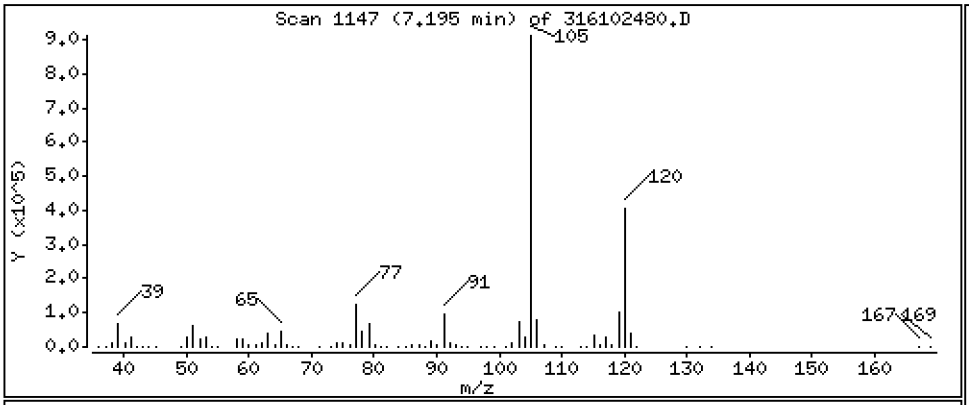
Client ID: Instrument: ms03.i

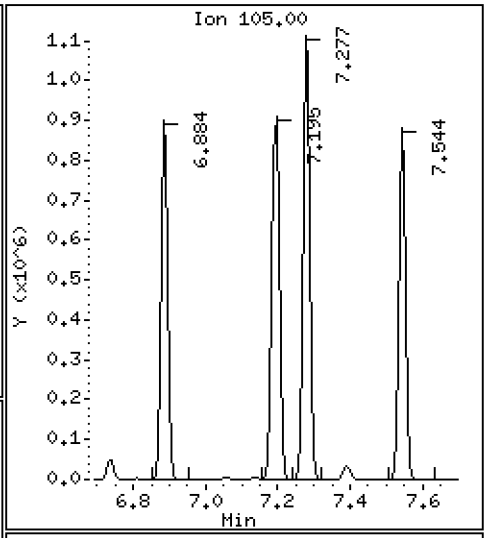
Sample Info: 1801;;1;2;4;;;

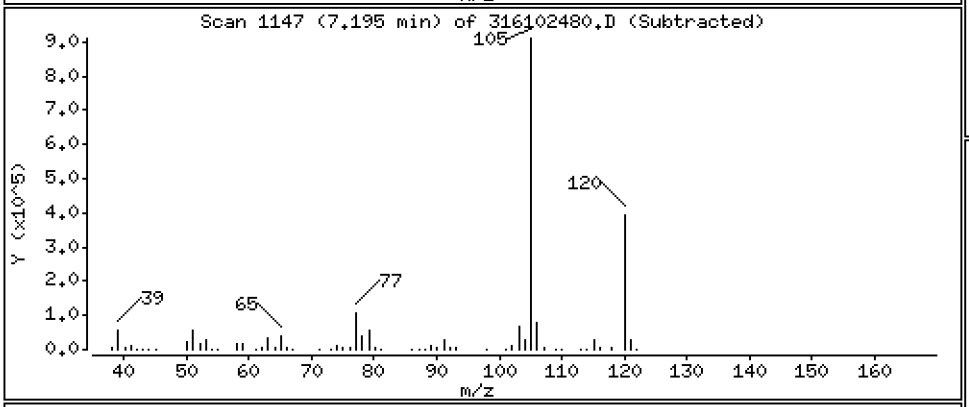
Purge Volume: 5.0 Operator: CJG

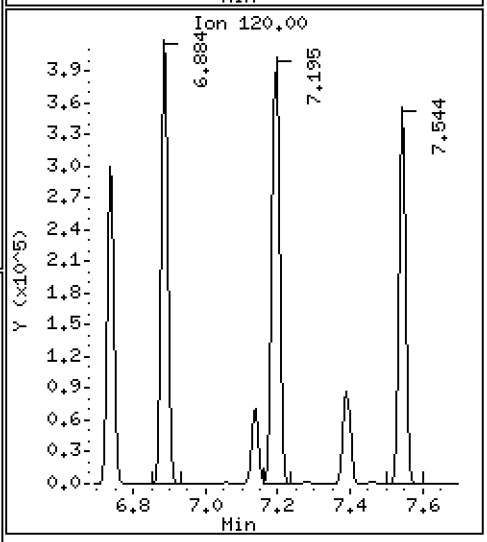
Column phase: DB-VRX Column diameter: 0.25

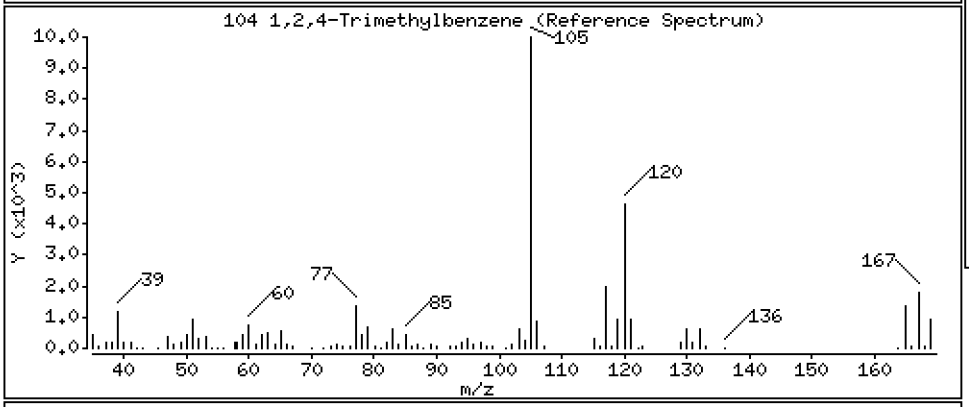
104 1,2,4-Trimethylbenzene Concentration: 49.4866 ug/L

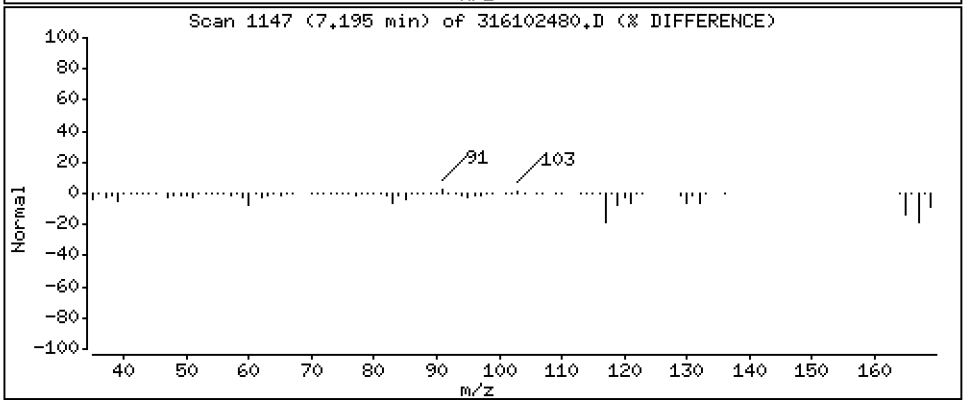












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 110

Date : 25-OCT-2016 09:17

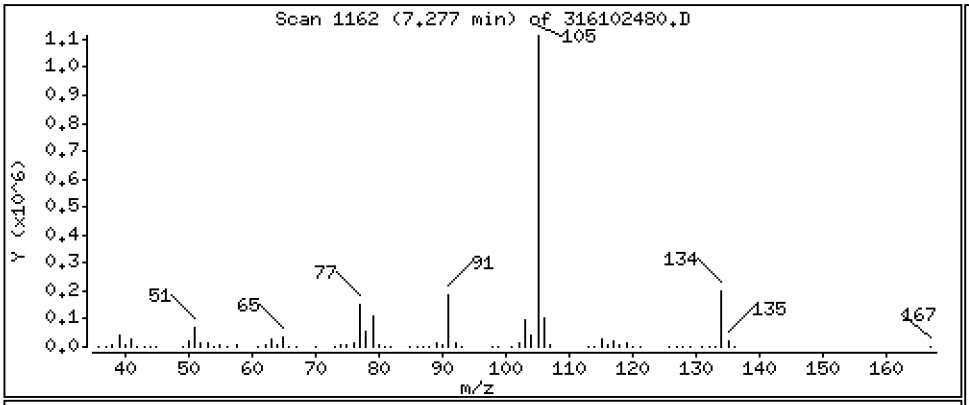
Client ID: Instrument: ms03.i

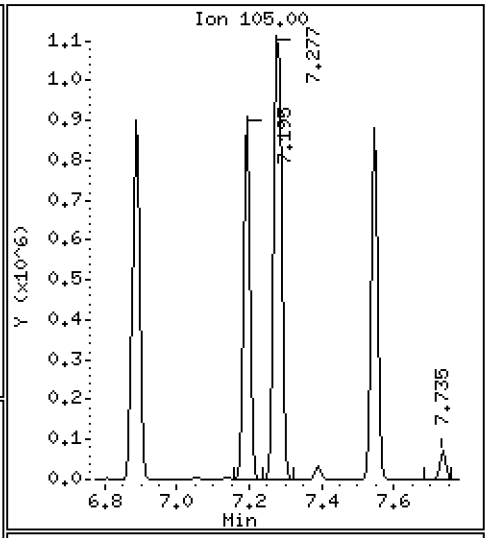
Sample Info: 1801;;1;2;4;;;

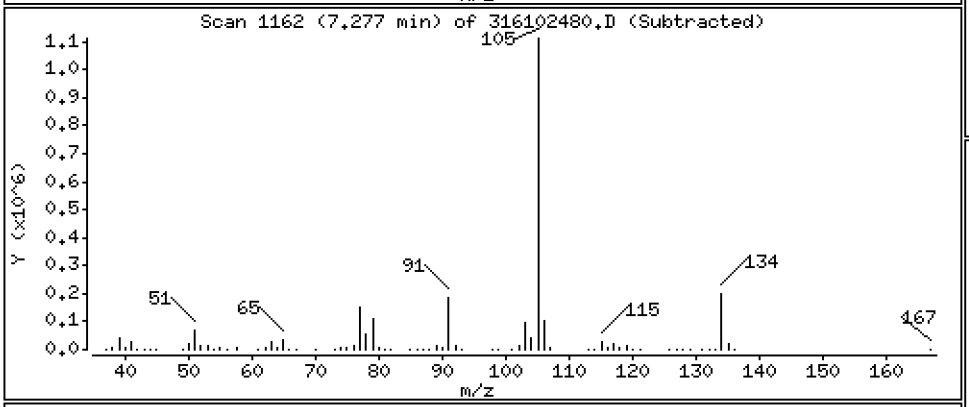
Purge Volume: 5.0 Operator: CJG

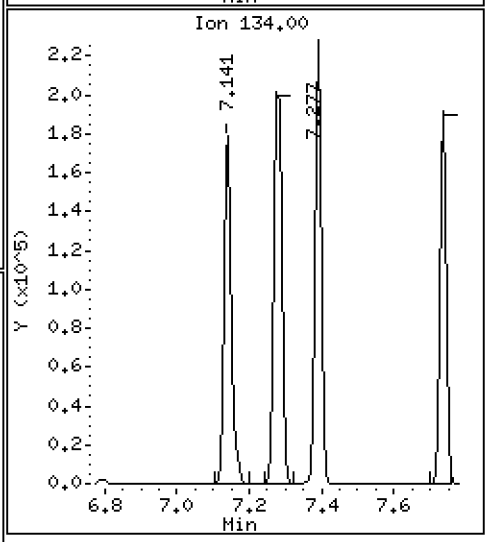
Column phase: DB-VRX Column diameter: 0.25

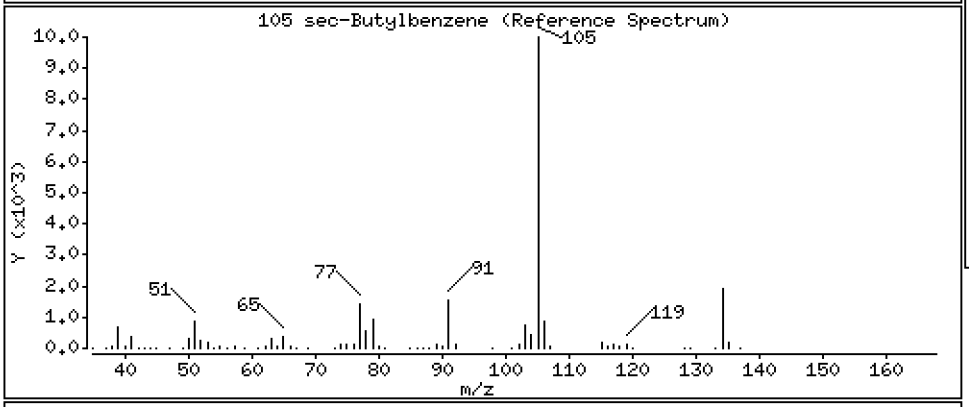
105 sec-Butylbenzene Concentration: 48.4686 ug/L

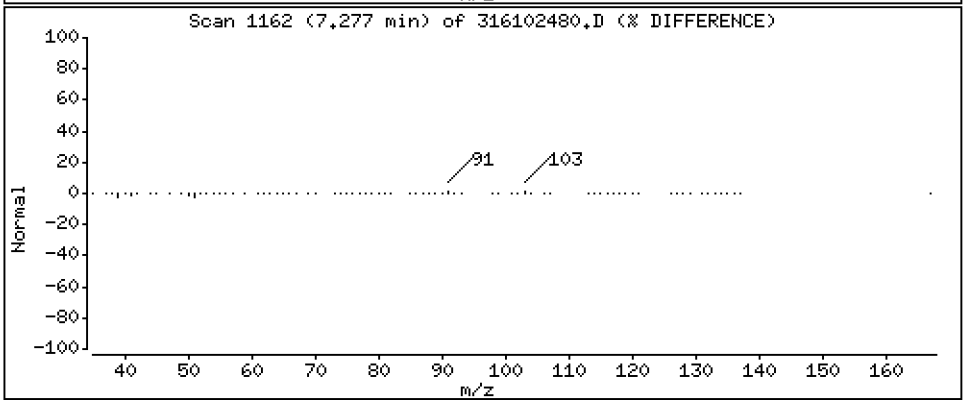












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 111

Date : 25-OCT-2016 09:17

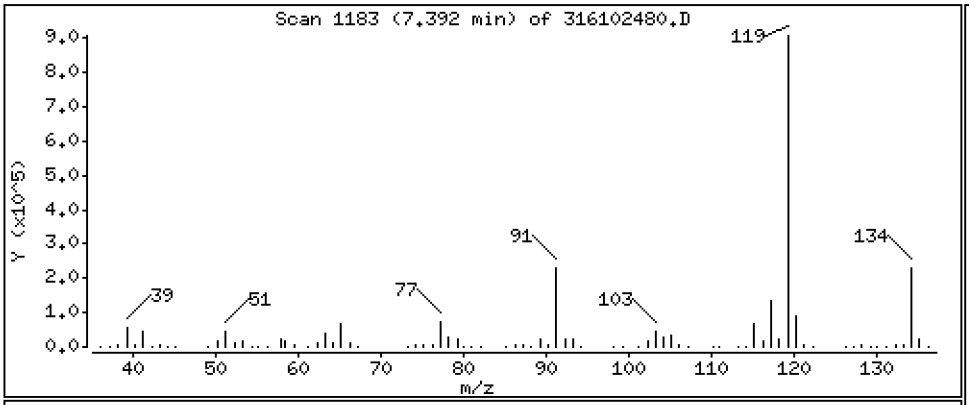
Client ID: Instrument: ms03.i

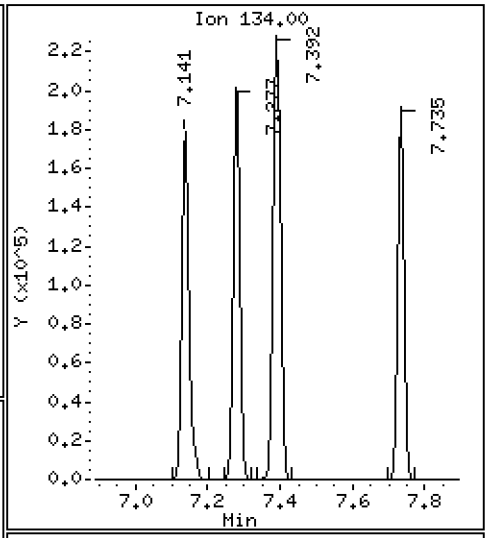
Sample Info: 1801;;1;2;4;;;

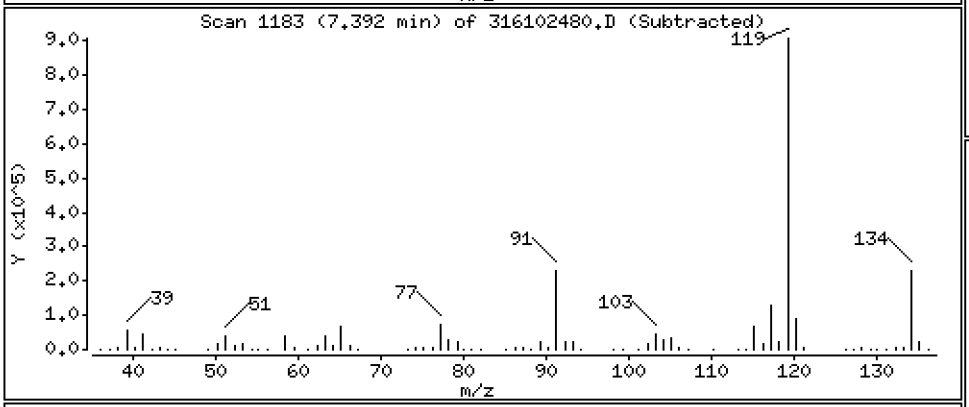
Purge Volume: 5.0 Operator: CJG

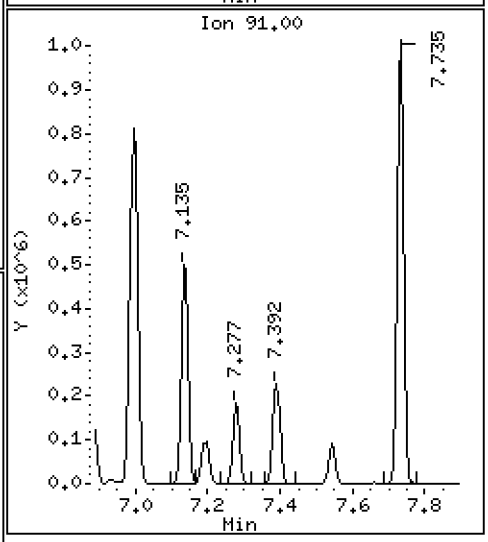
Column phase: DB-VRX Column diameter: 0.25

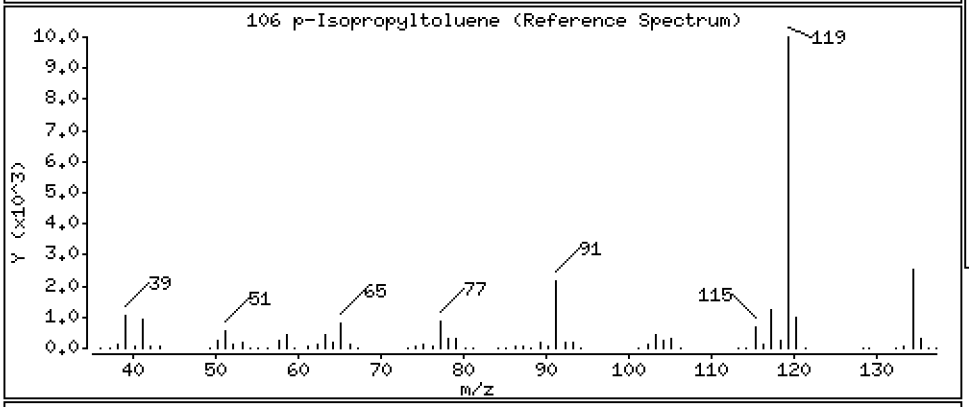
106 p-Isopropyltoluene Concentration: 49.4169 ug/L

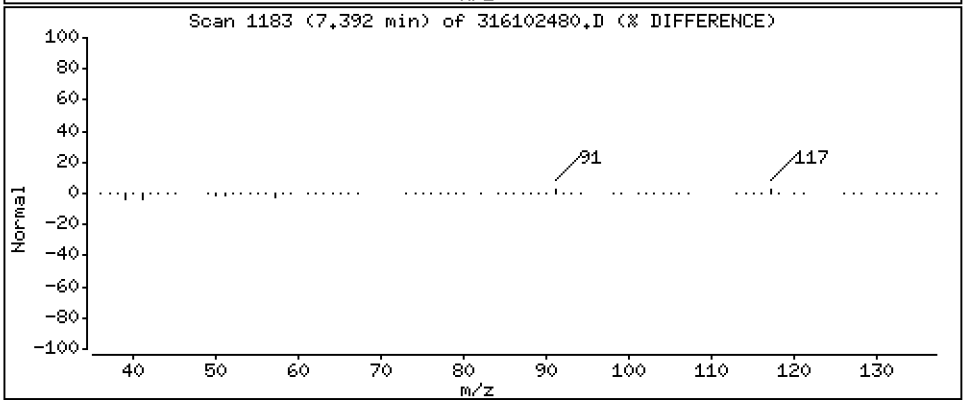












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 112

Date : 25-OCT-2016 09:17

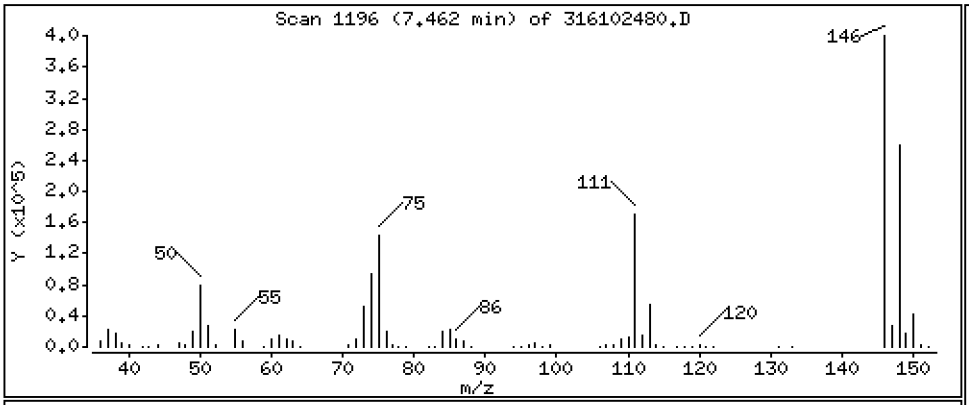
Client ID: Instrument: ms03.i

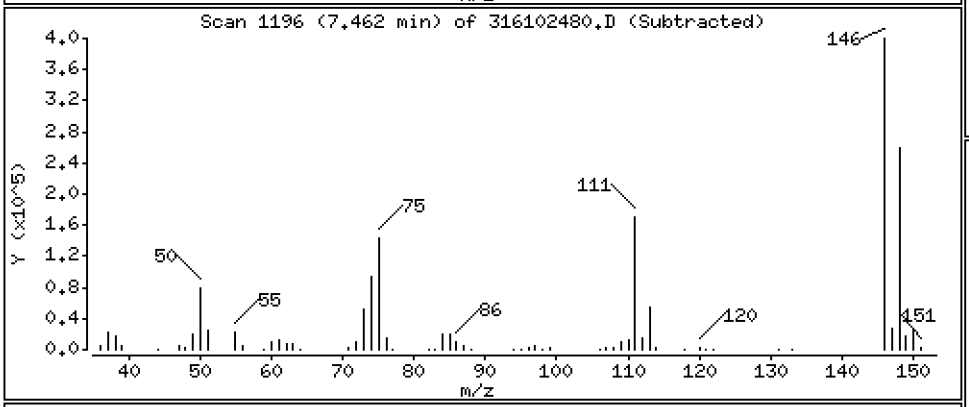
Sample Info: 1801;;1;2;4;;;

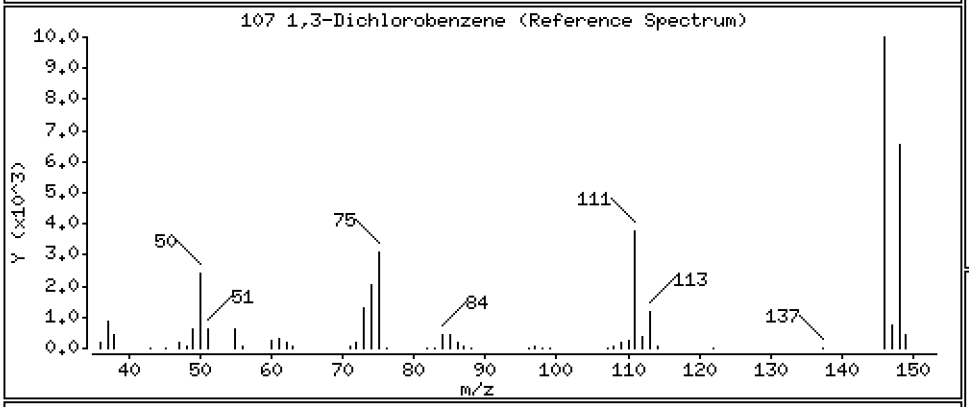
Purge Volume: 5.0 Operator: CJG

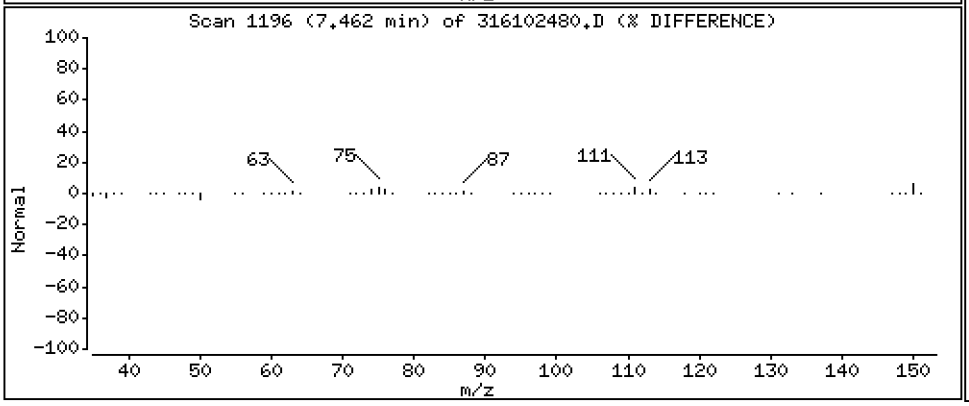
Column phase: DB-VRX Column diameter: 0.25

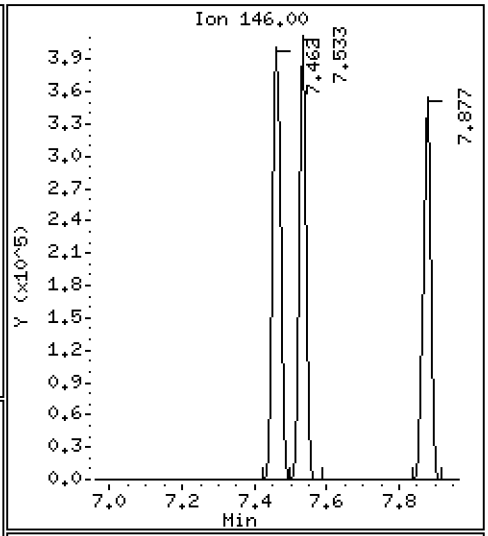
107 1,3-Dichlorobenzene Concentration: 48.0636 ug/L

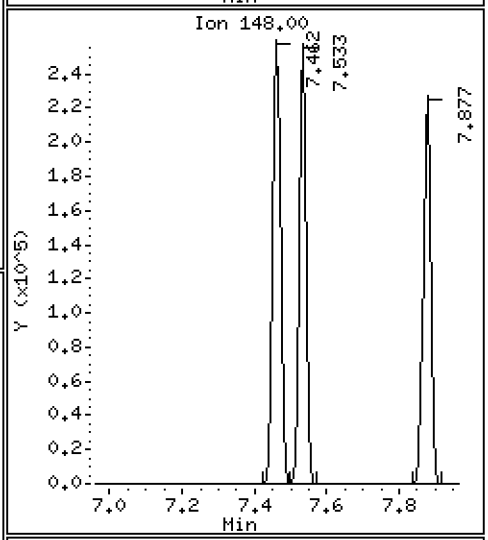


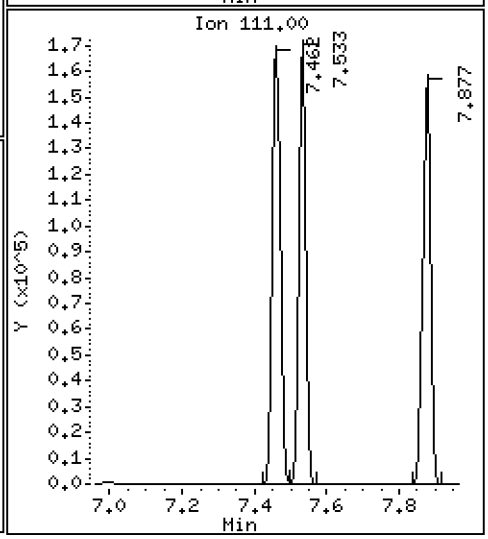












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 113

Date : 25-OCT-2016 09:17

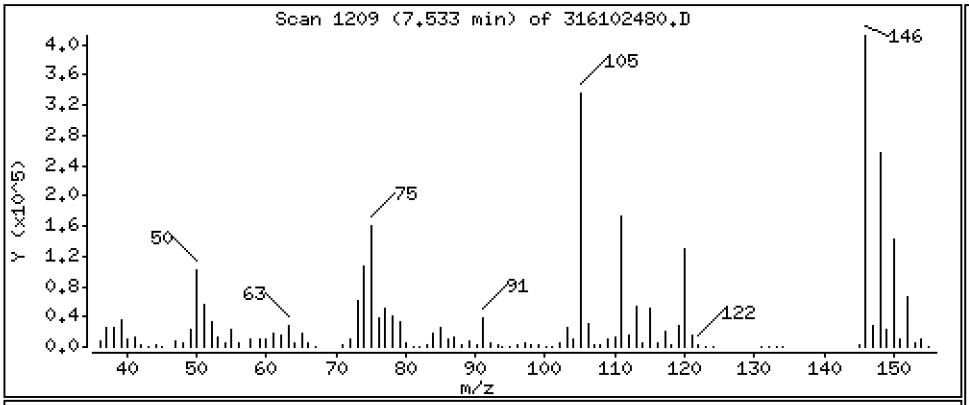
Client ID: Instrument: ms03.i

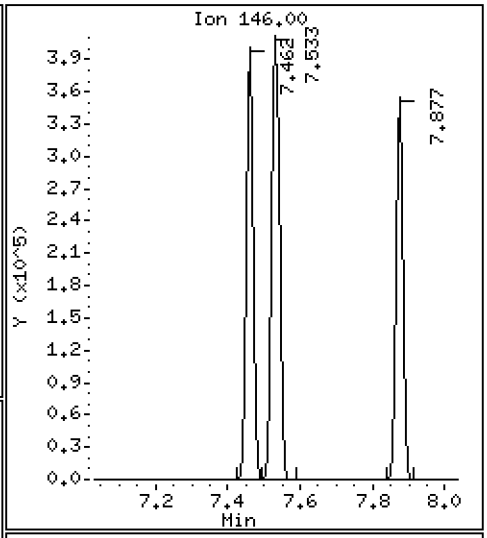
Sample Info: 1801;;1;2;4;;;

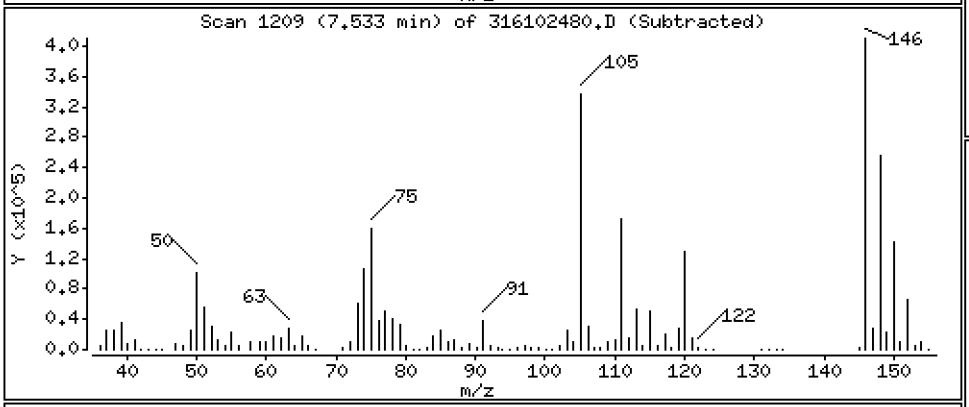
Purge Volume: 5.0 Operator: CJG

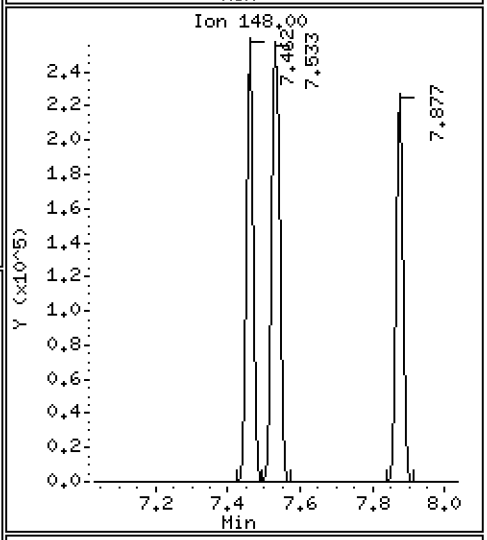
Column phase: DB-VRX Column diameter: 0.25

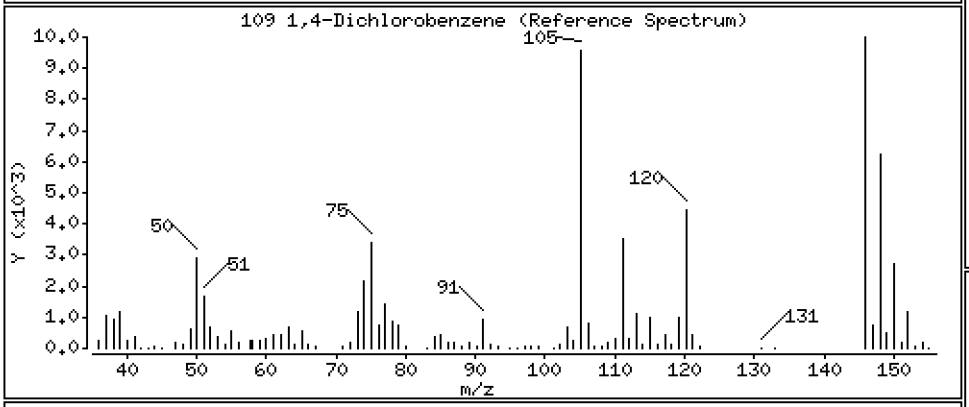
109 1,4-Dichlorobenzene Concentration: 48.1247 ug/L

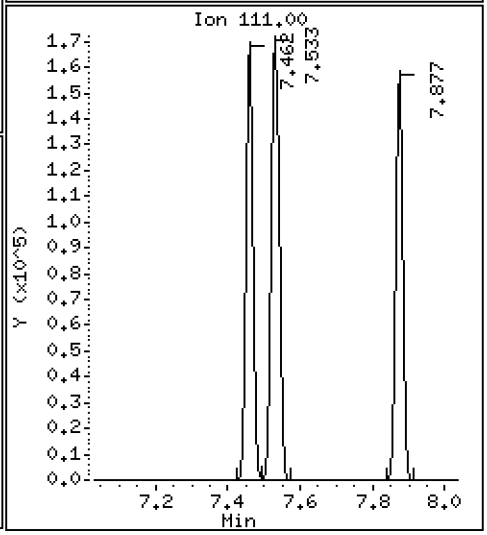


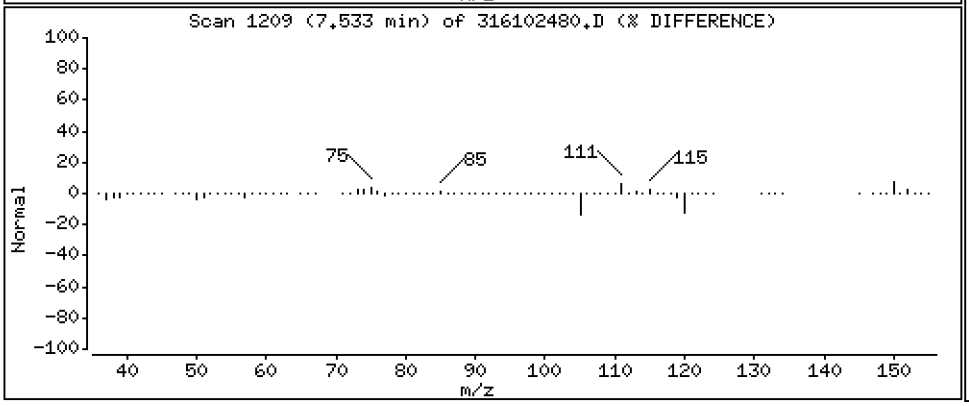












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 114

Date : 25-OCT-2016 09:17

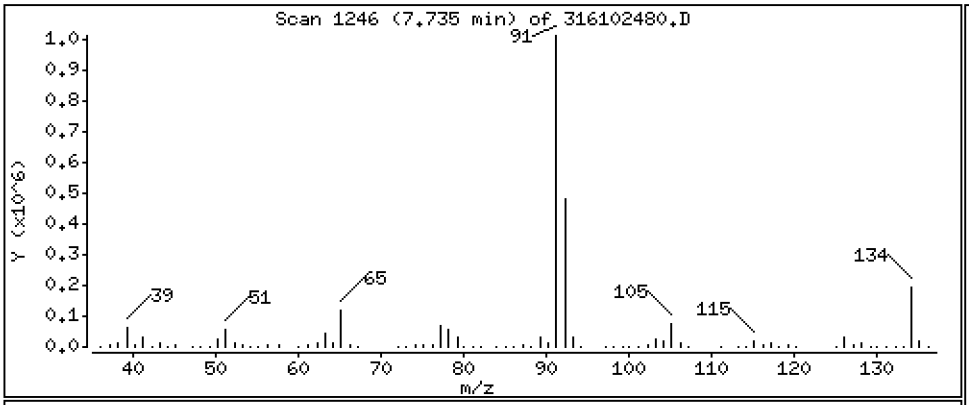
Client ID: Instrument: ms03.i

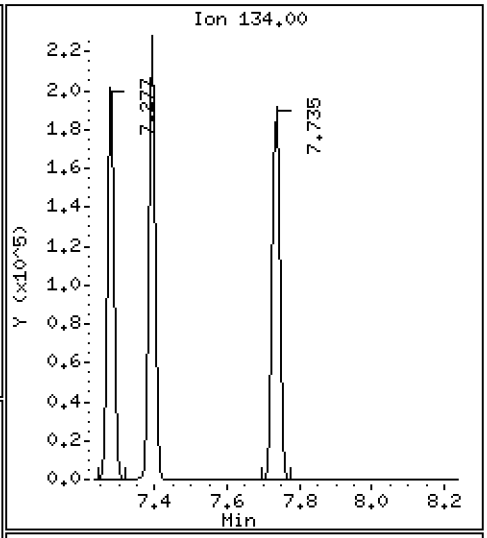
Sample Info: 1801;;1;2;4;;;

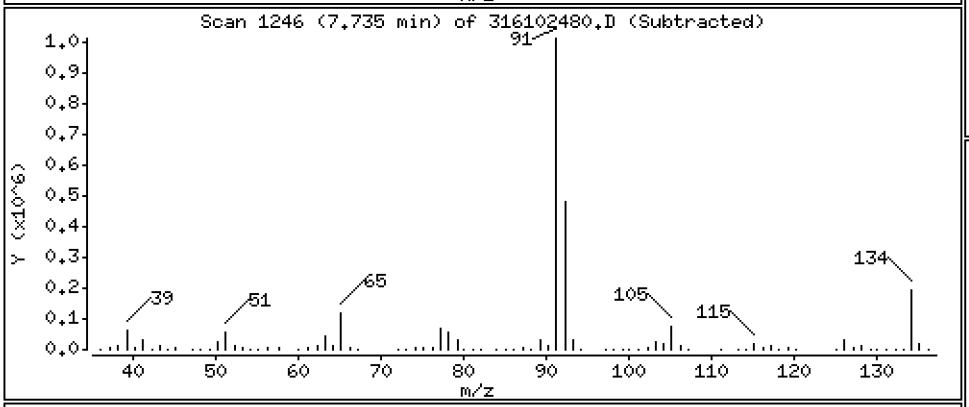
Purge Volume: 5.0 Operator: CJG

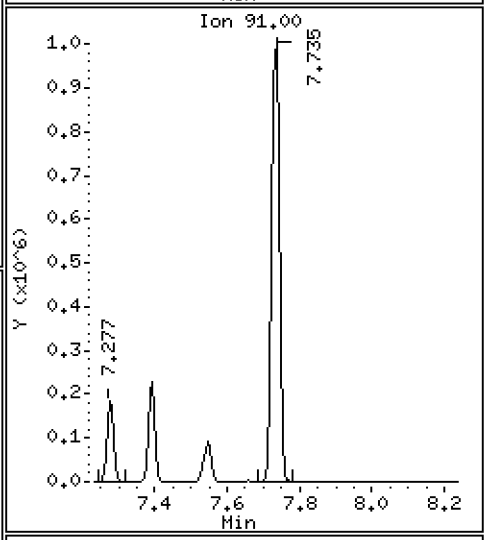
Column phase: DB-VRX Column diameter: 0.25

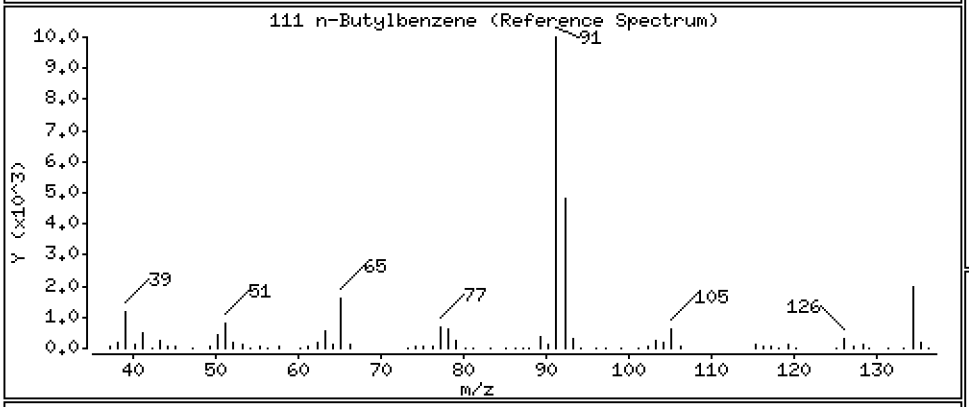
111 n-Butylbenzene Concentration: 47.4542 ug/L

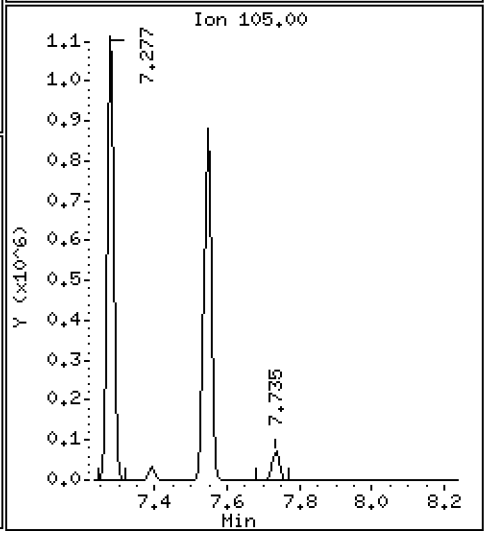


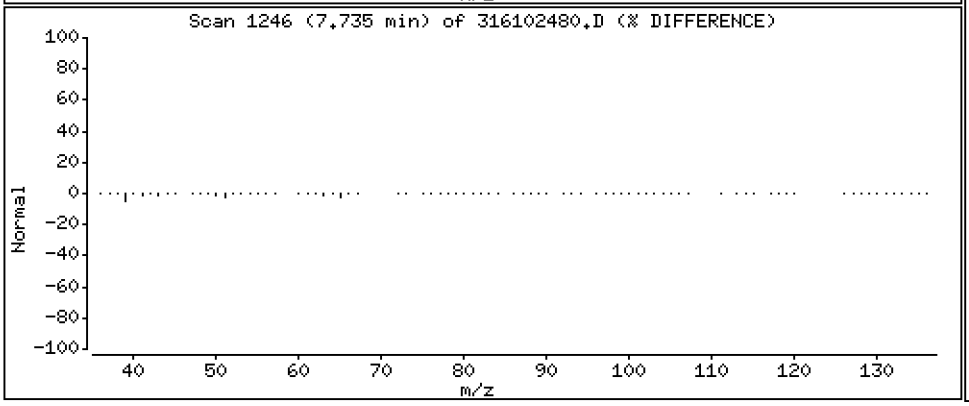












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 115

Date : 25-OCT-2016 09:17

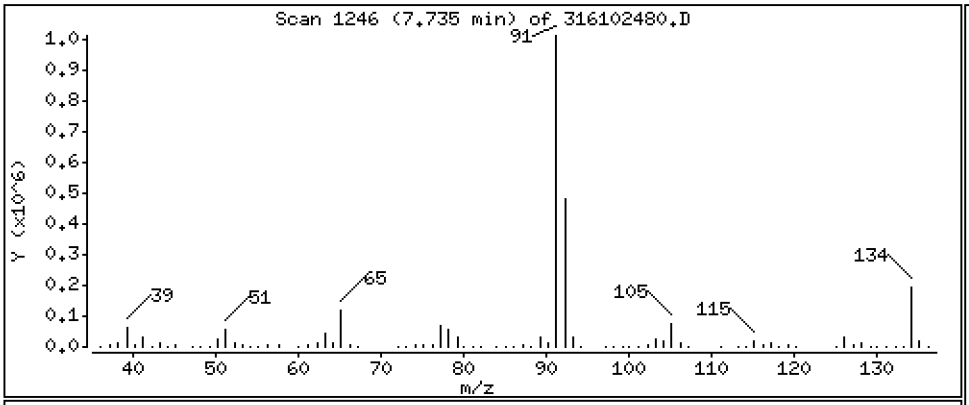
Client ID: Instrument: ms03.i

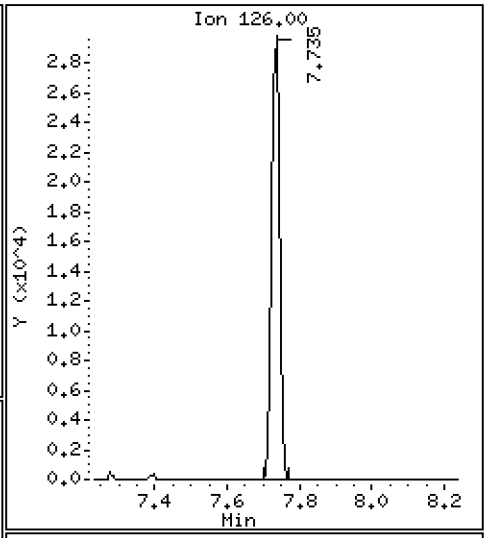
Sample Info: 1801;;1;2;4;;;

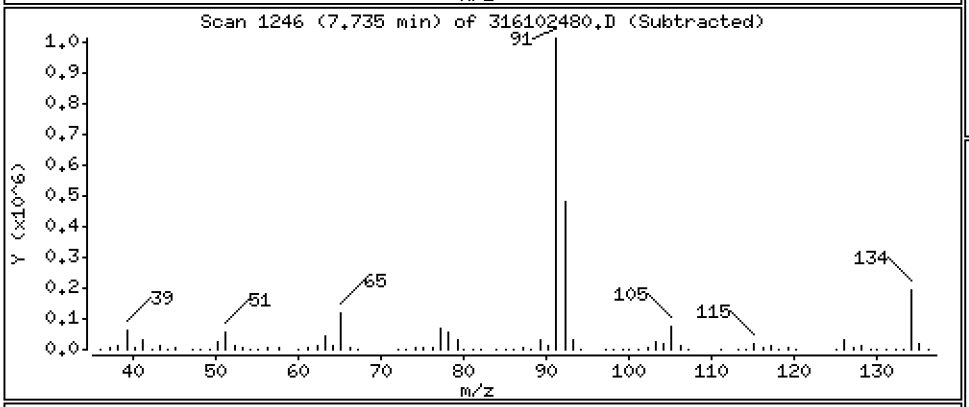
Purge Volume: 5.0 Operator: CJG

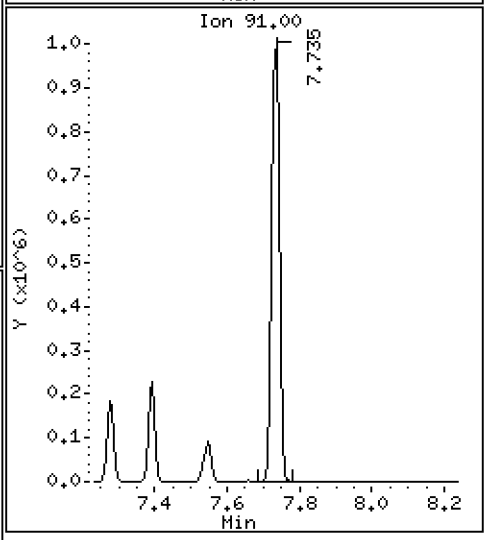
Column phase: DB-VRX Column diameter: 0.25

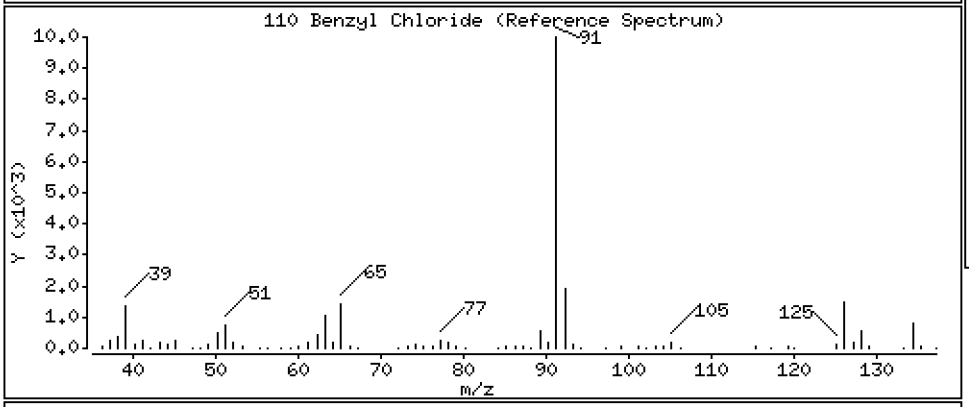
110 Benzyl Chloride Concentration: 26.7826 ug/L

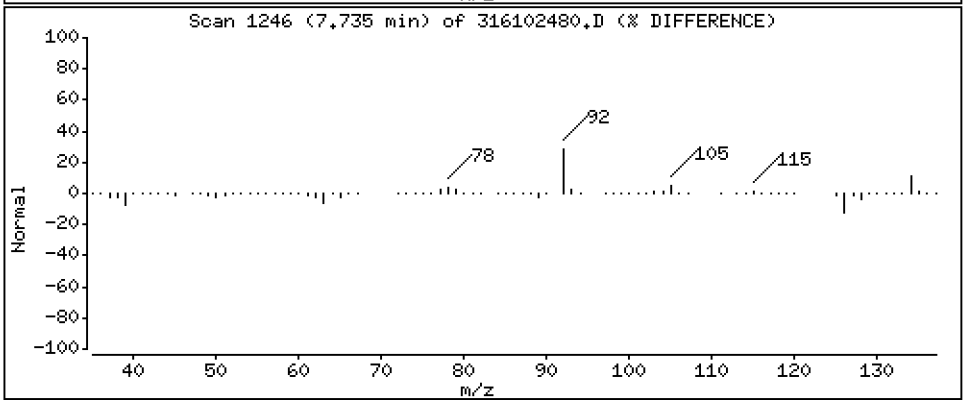












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 116

Date : 25-OCT-2016 09:17

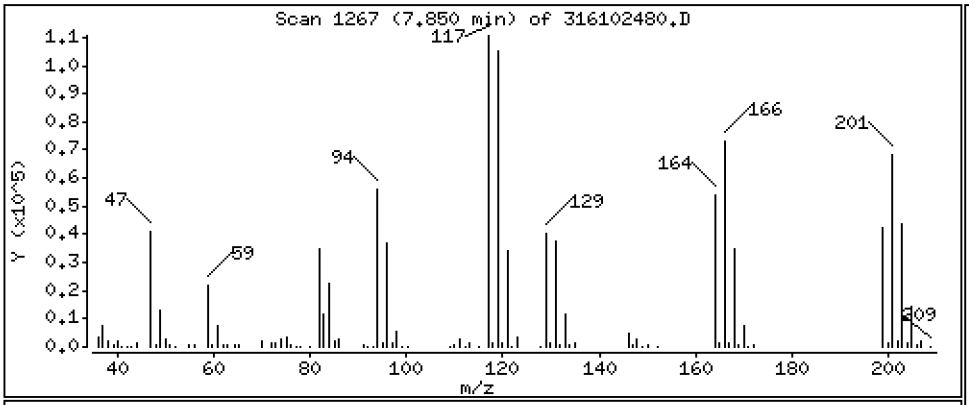
Client ID: Instrument: ms03.i

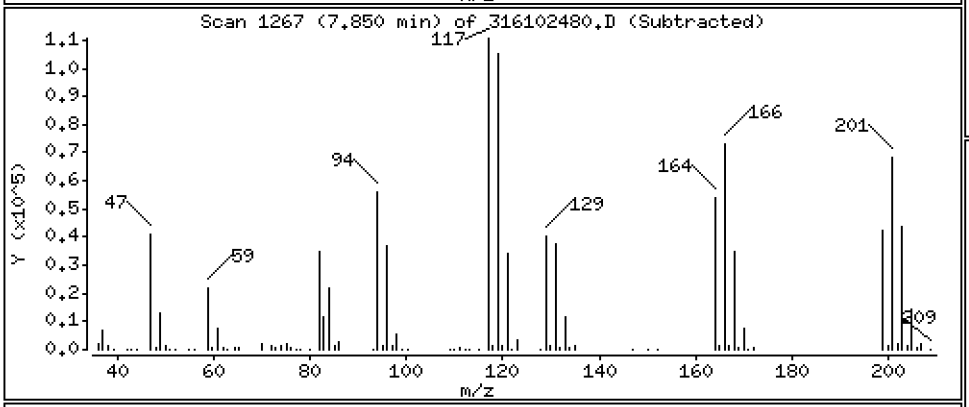
Sample Info: 1801;;1;2;4;;;

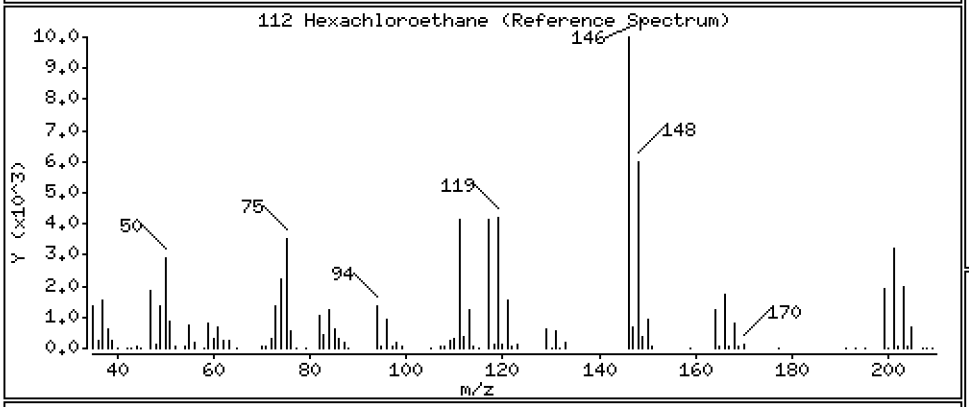
Purge Volume: 5.0 Operator: CJG

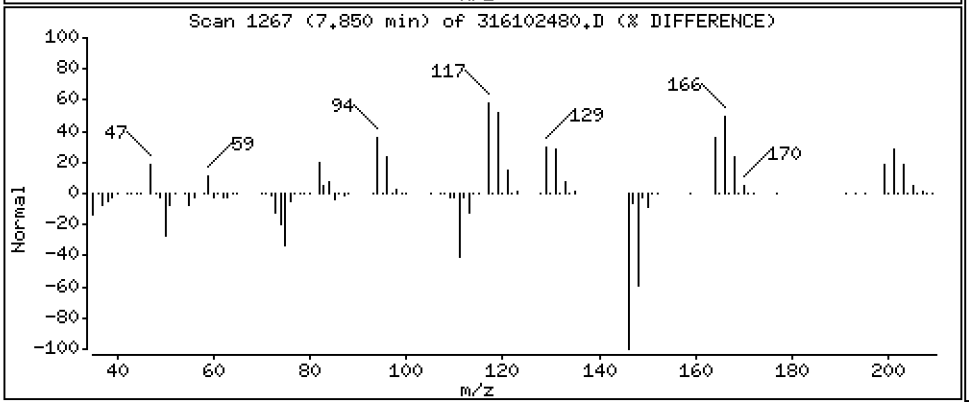
Column phase: DB-VRX Column diameter: 0.25

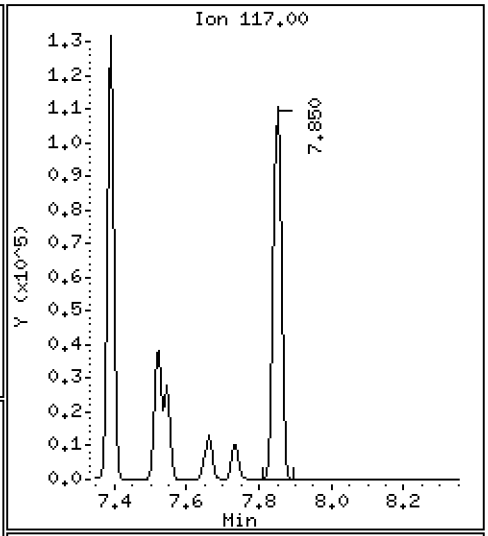
112 Hexachloroethane Concentration: 44.0800 ug/L

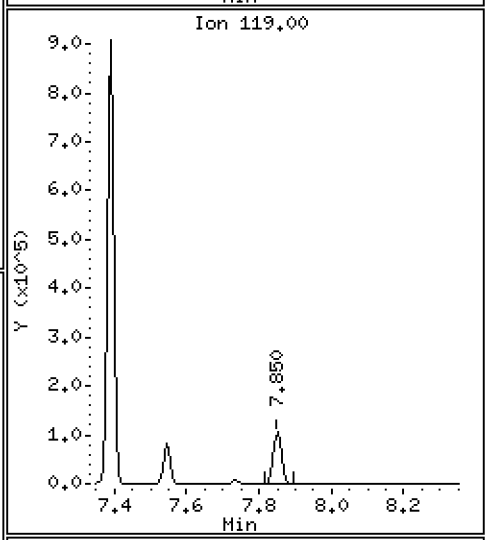


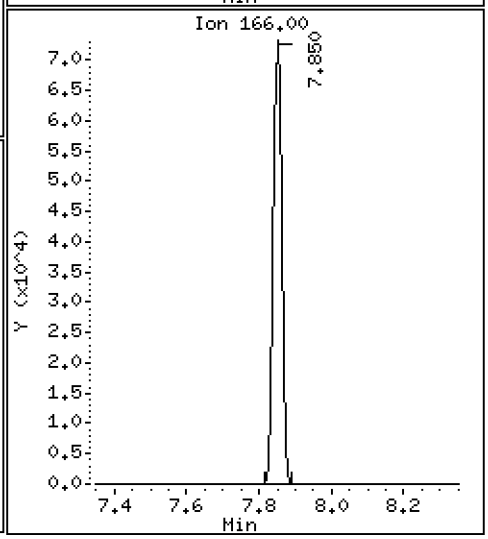












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 117

Date : 25-OCT-2016 09:17

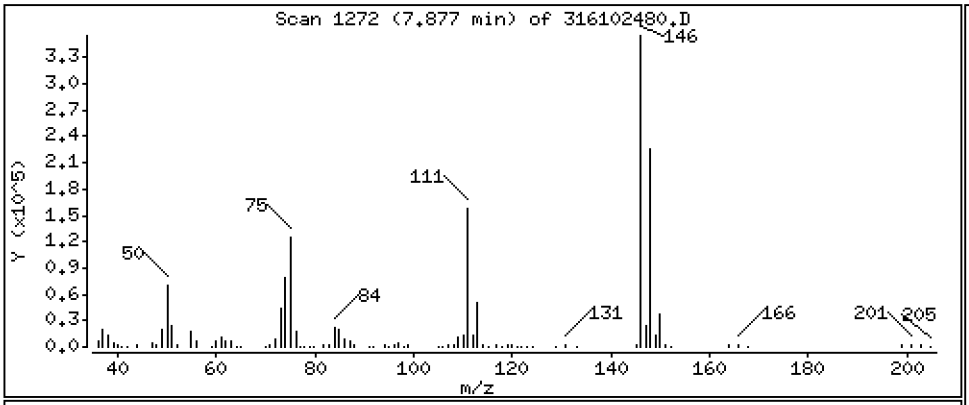
Client ID: Instrument: ms03.i

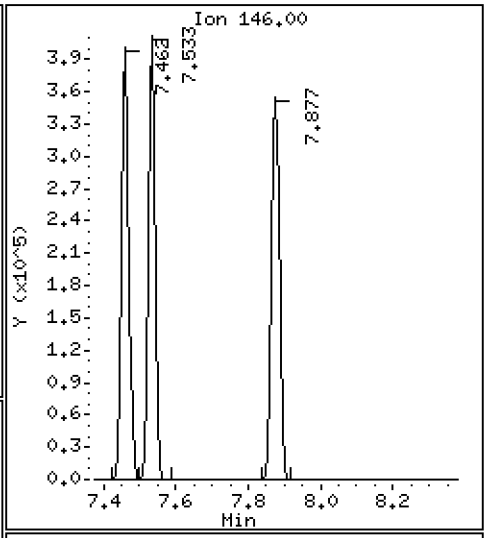
Sample Info: 1801;;1;2;4;;;

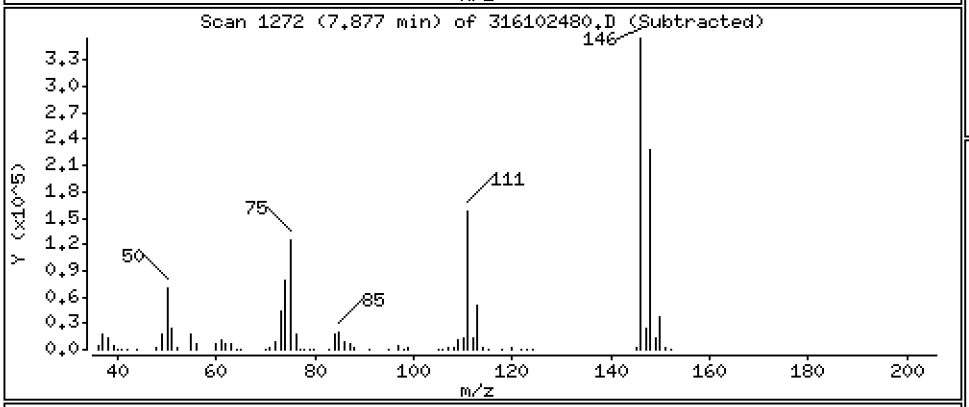
Purge Volume: 5.0 Operator: CJG

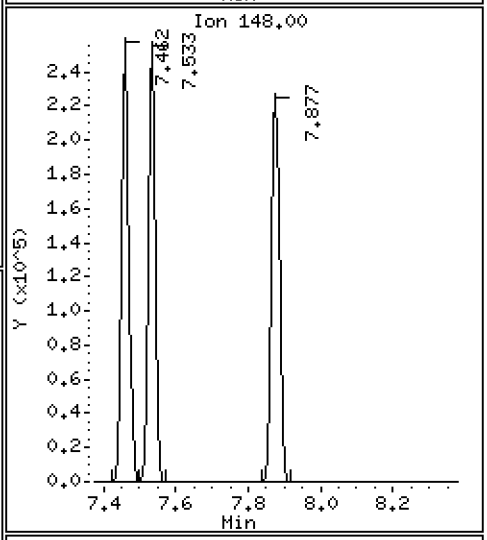
Column phase: DB-VRX Column diameter: 0.25

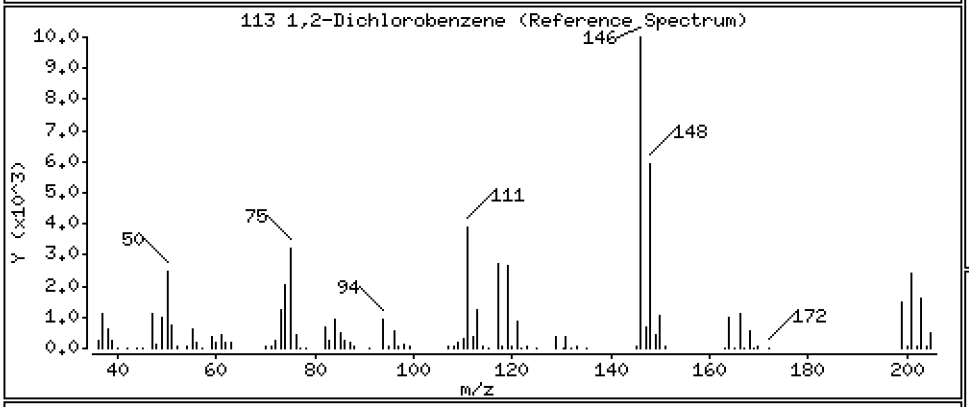
113 1,2-Dichlorobenzene Concentration: 47.8411 ug/L

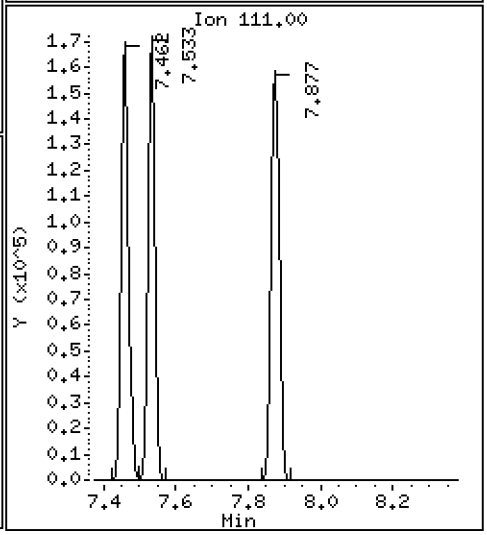


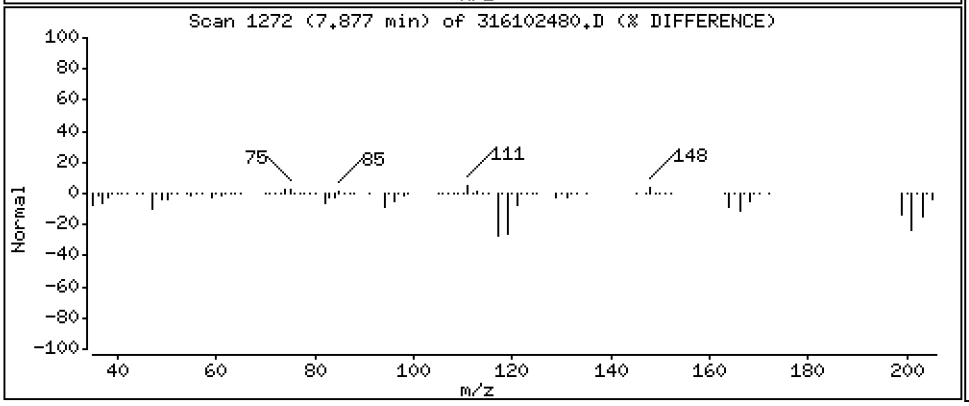












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 118

Date : 25-OCT-2016 09:17

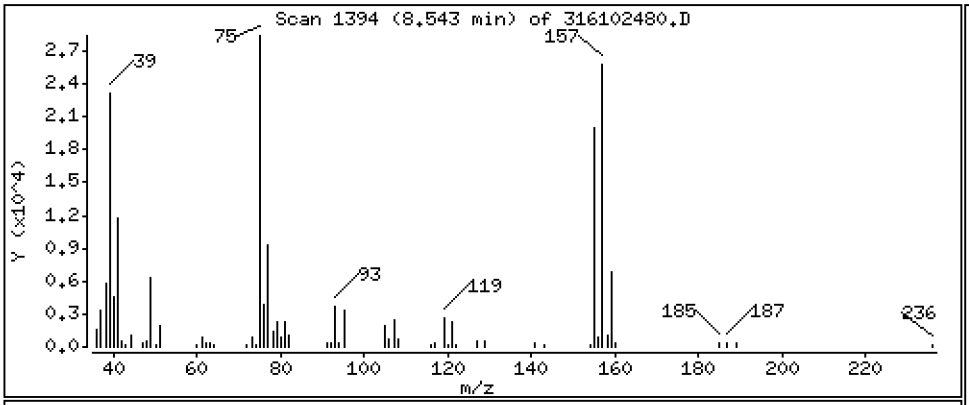
Client ID: Instrument: ms03.i

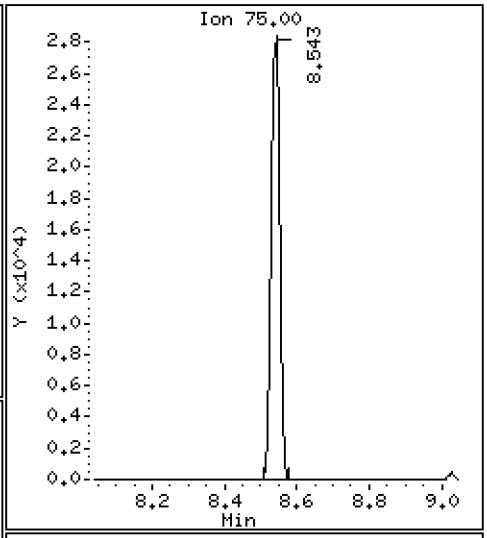
Sample Info: 1801;;1;2;4;;;

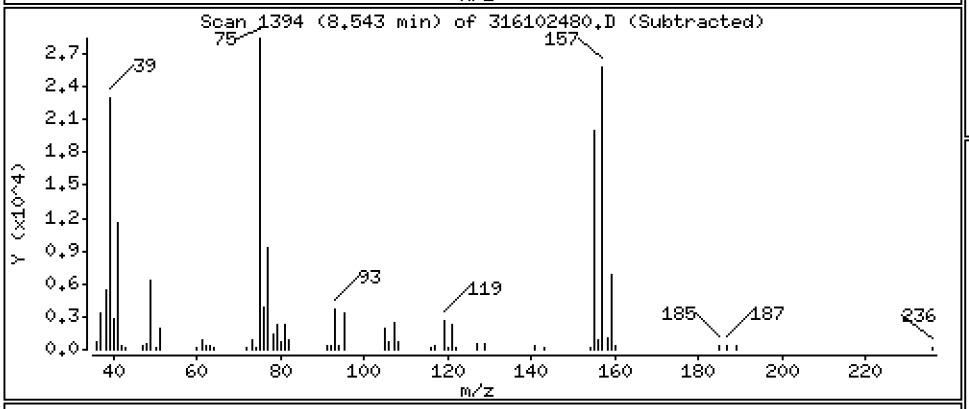
Purge Volume: 5.0 Operator: CJG

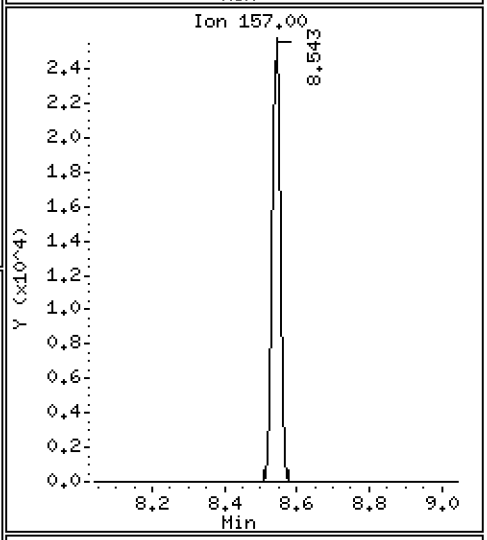
Column phase: DB-VRX Column diameter: 0.25

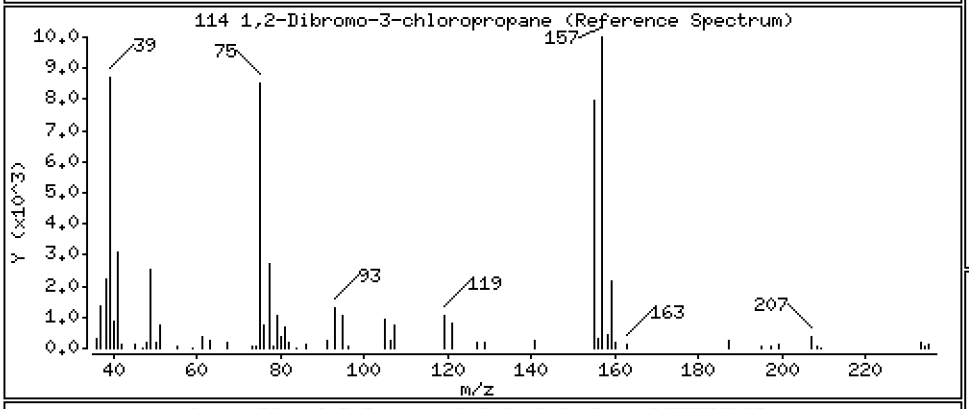
114 1,2-Dibromo-3-chloropropane Concentration: 47.7446 ug/L

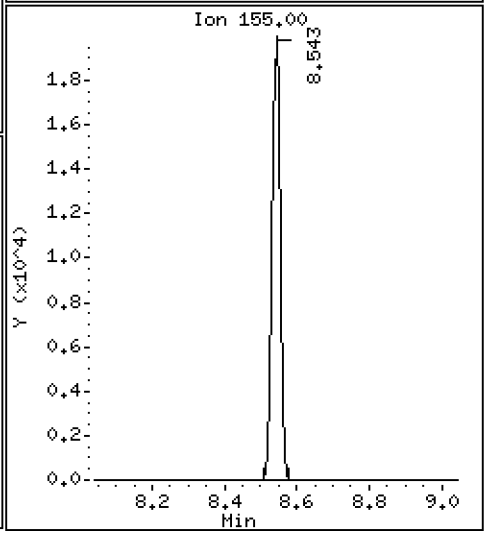


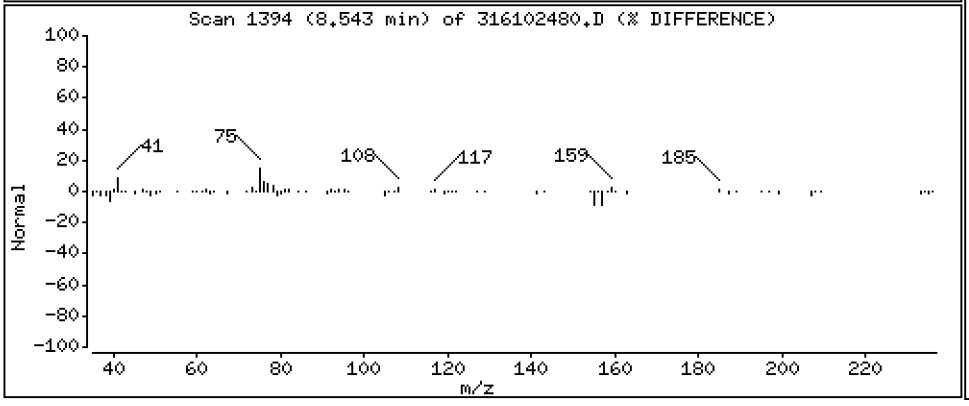












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 119

Date : 25-OCT-2016 09:17

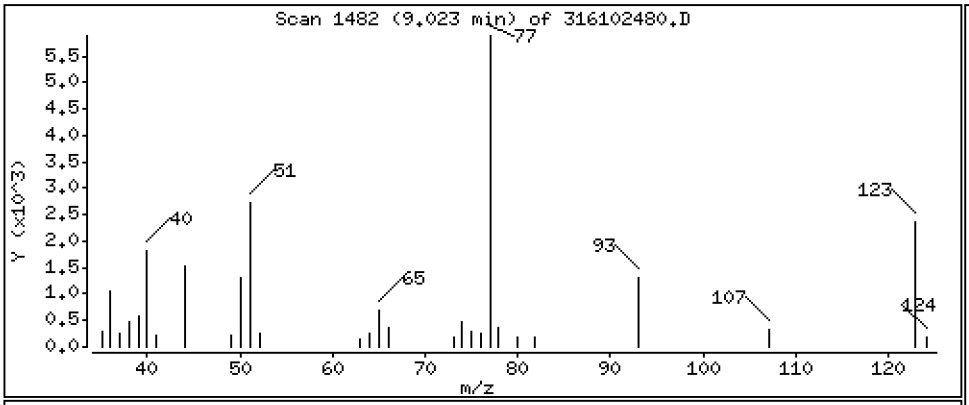
Client ID: Instrument: ms03.i

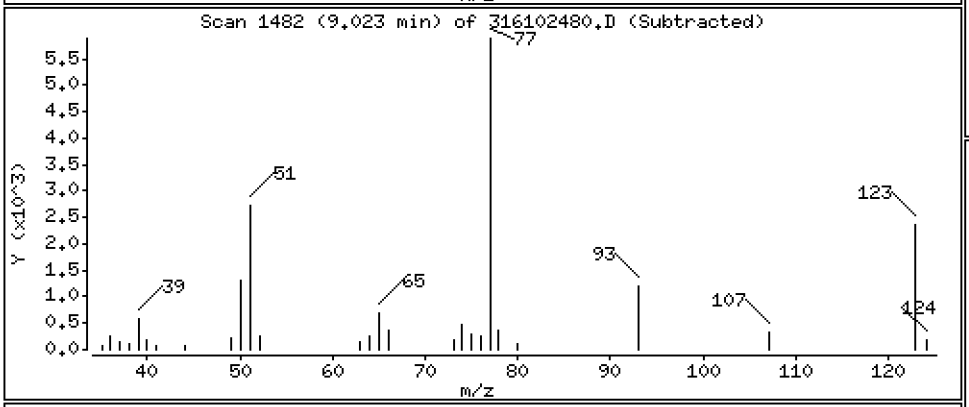
Sample Info: 1801;;1;2;4;;;

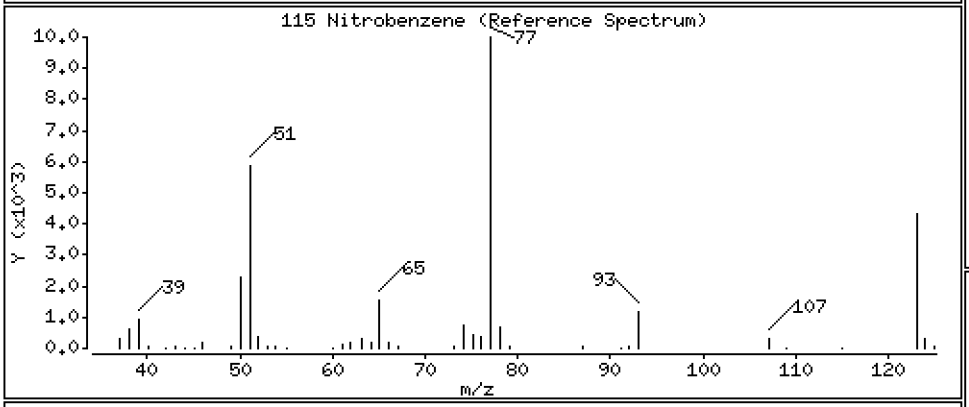
Purge Volume: 5.0 Operator: CJG

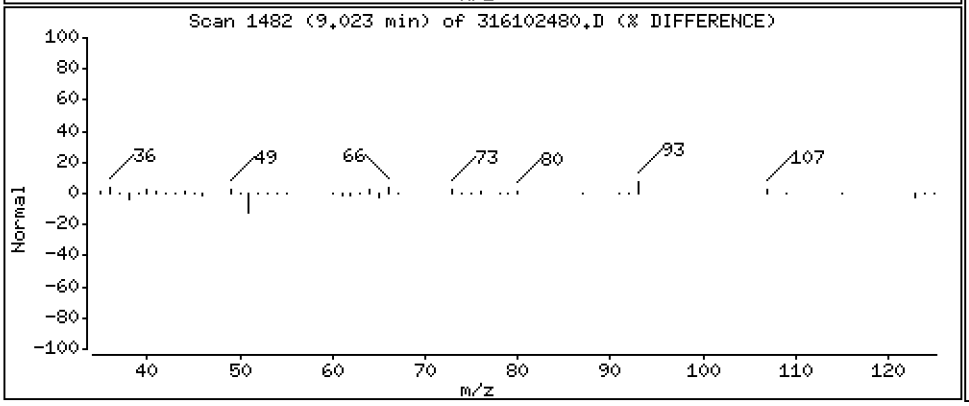
Column phase: DB-VRX Column diameter: 0.25

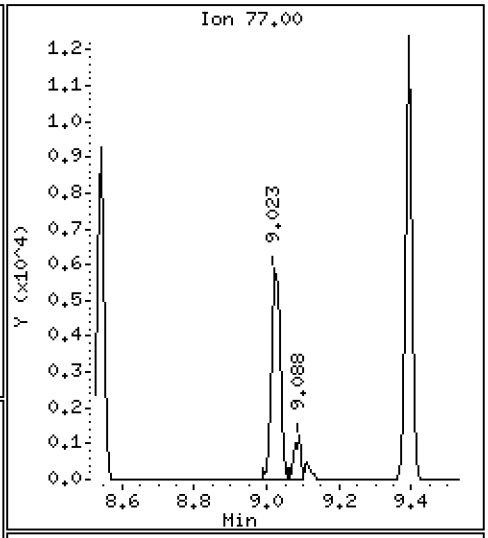
115 Nitrobenzene Concentration: 305.340 ug/L

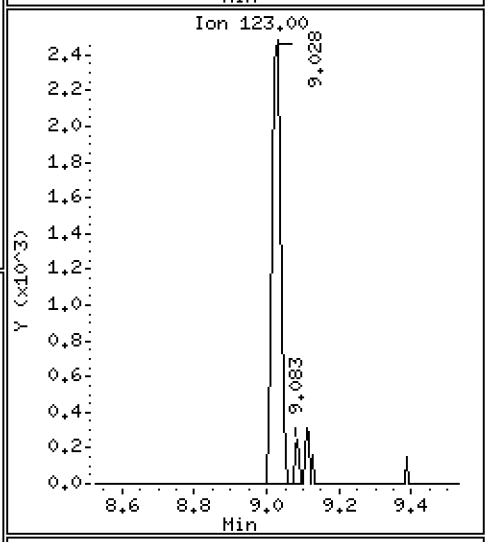


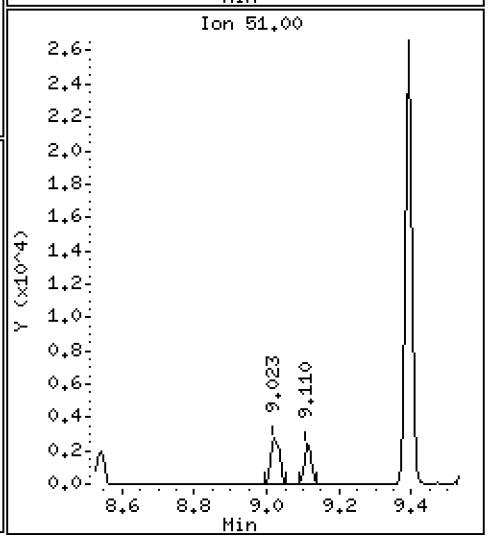












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 120

Date : 25-OCT-2016 09:17

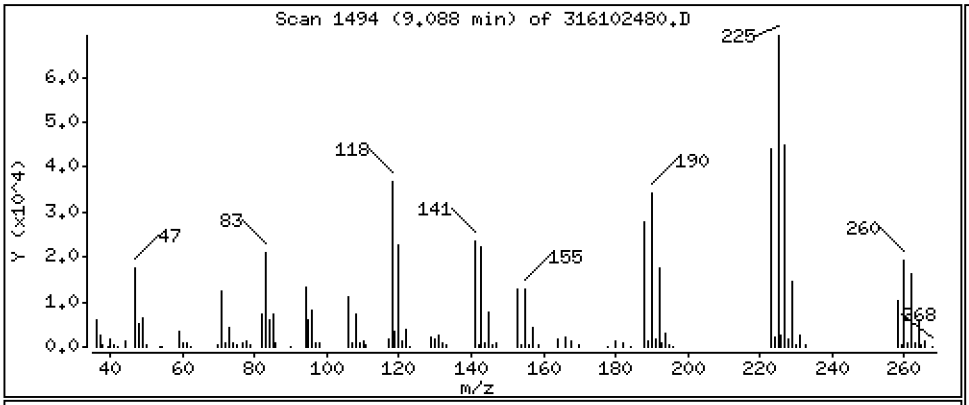
Client ID: Instrument: ms03.i

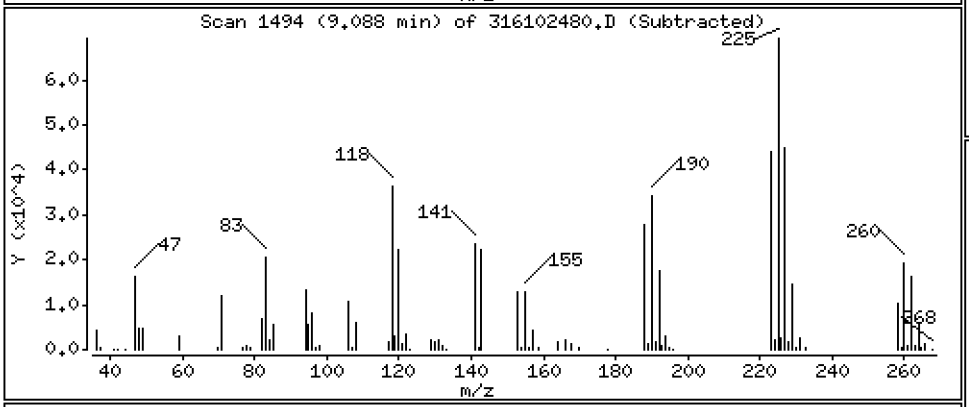
Sample Info: 1801;;1;2;4;;;

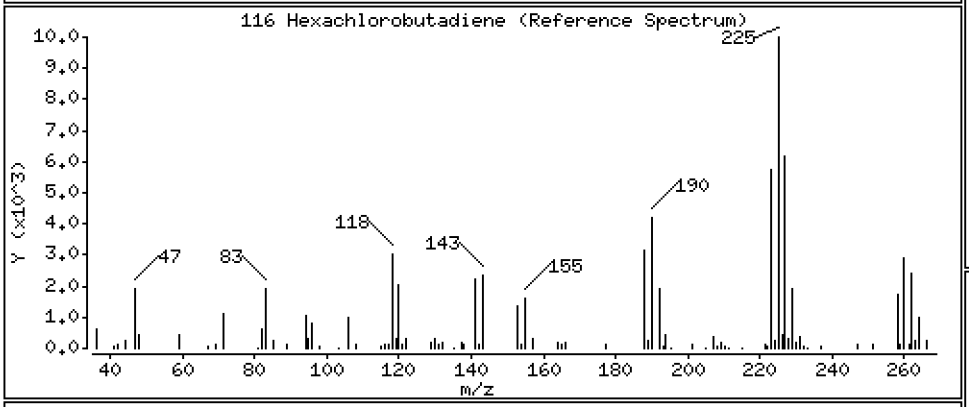
Purge Volume: 5.0 Operator: CJG

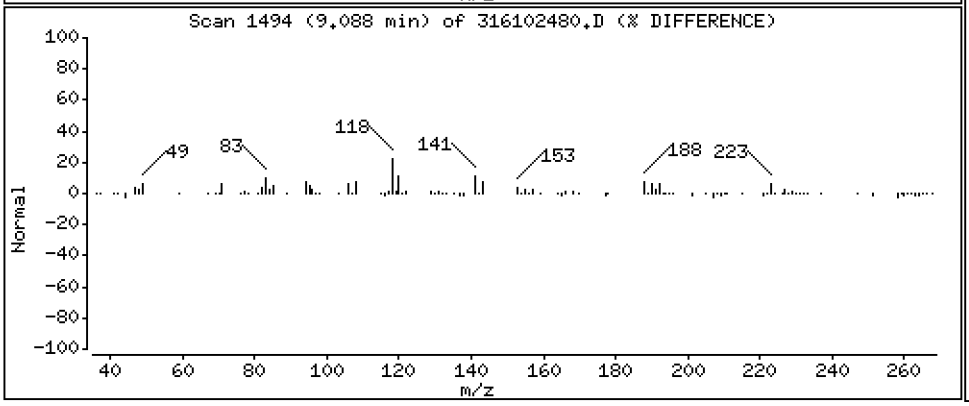
Column phase: DB-VRX Column diameter: 0.25

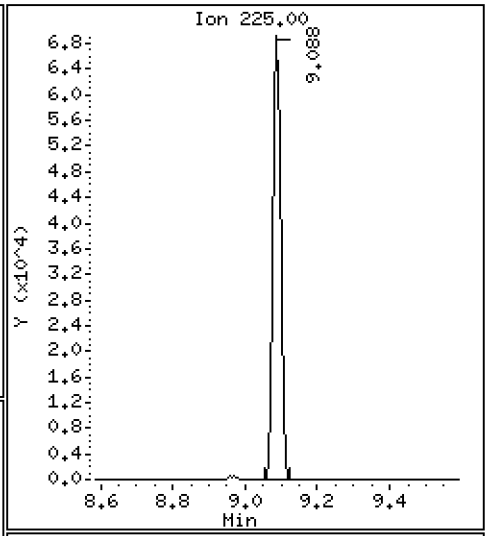
116 Hexachlorobutadiene Concentration: 47.1264 ug/L

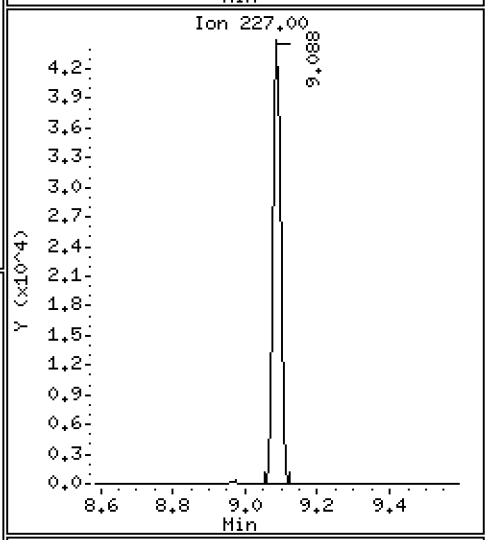


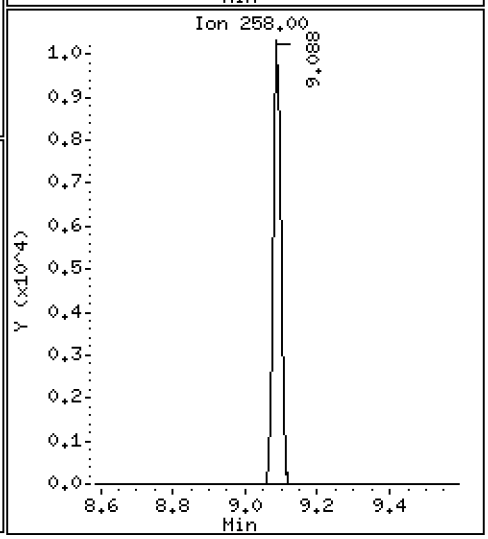












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 121

Date : 25-OCT-2016 09:17

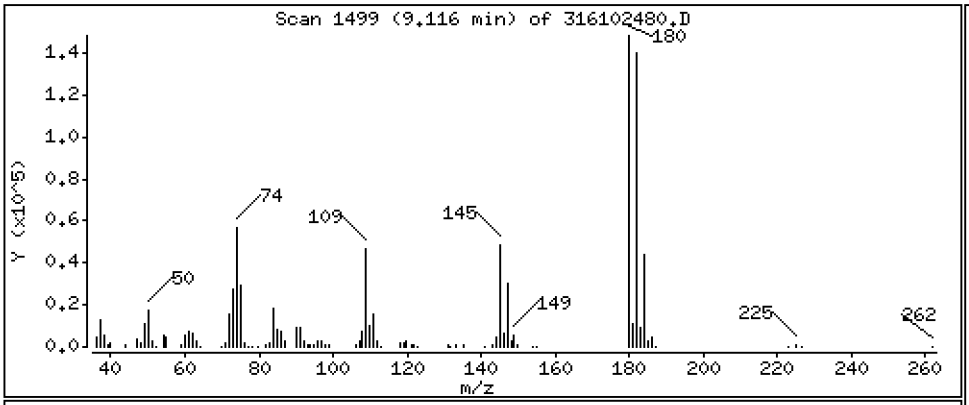
Client ID: Instrument: ms03.i

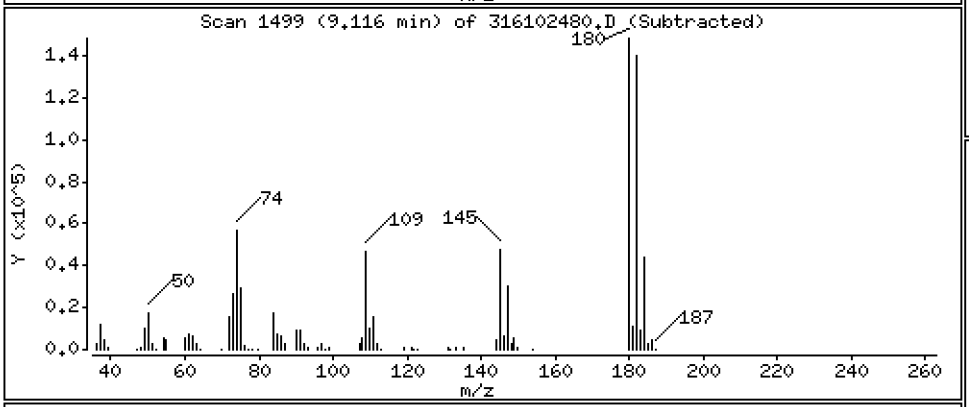
Sample Info: 1801;;1;2;4;;;

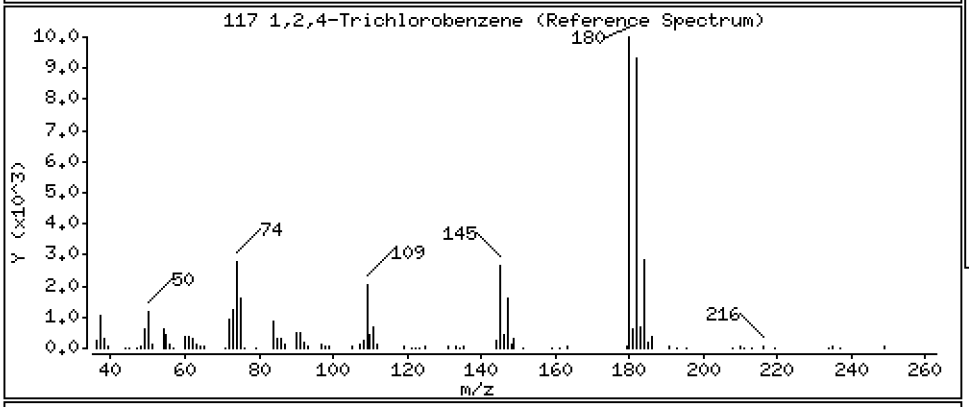
Purge Volume: 5.0 Operator: CJG

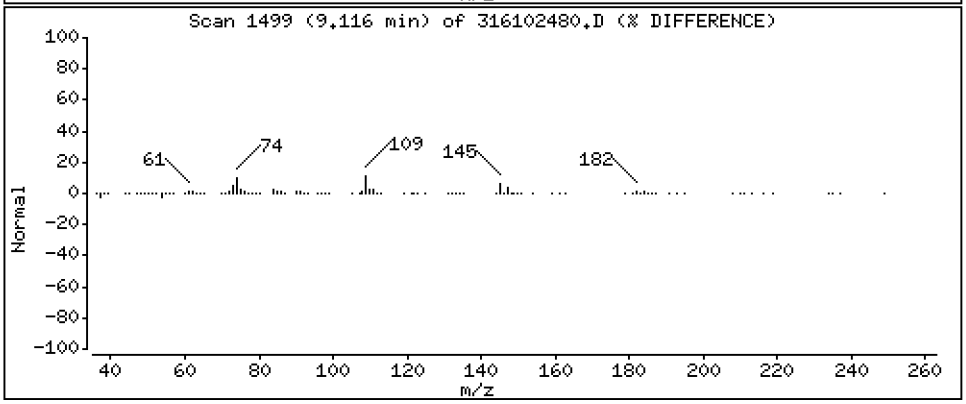
Column phase: DB-VRX Column diameter: 0.25

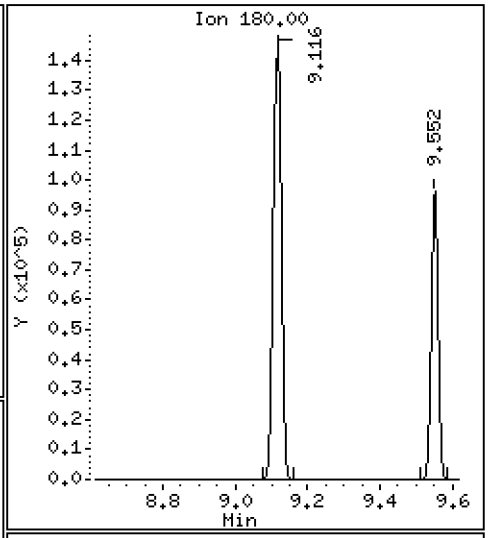
117 1,2,4-Trichlorobenzene Concentration: 45.8233 ug/L

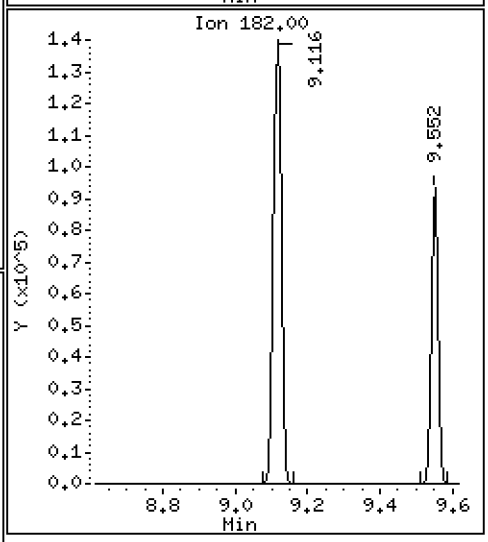












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 122

Date : 25-OCT-2016 09:17

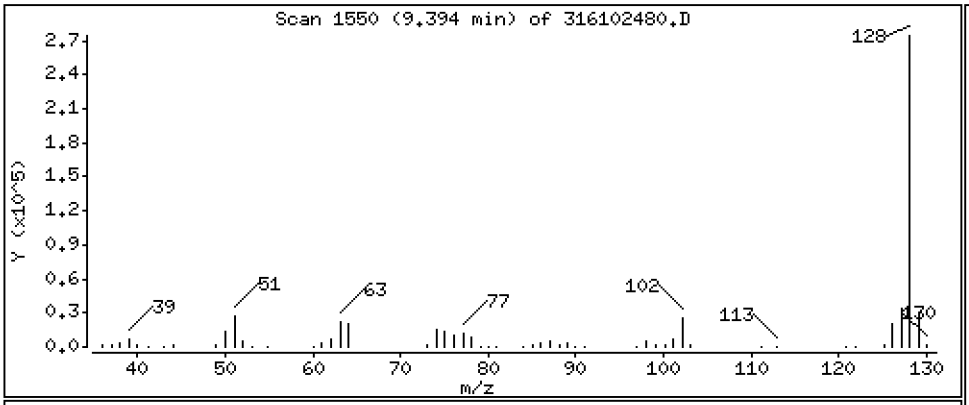
Client ID: Instrument: ms03.i

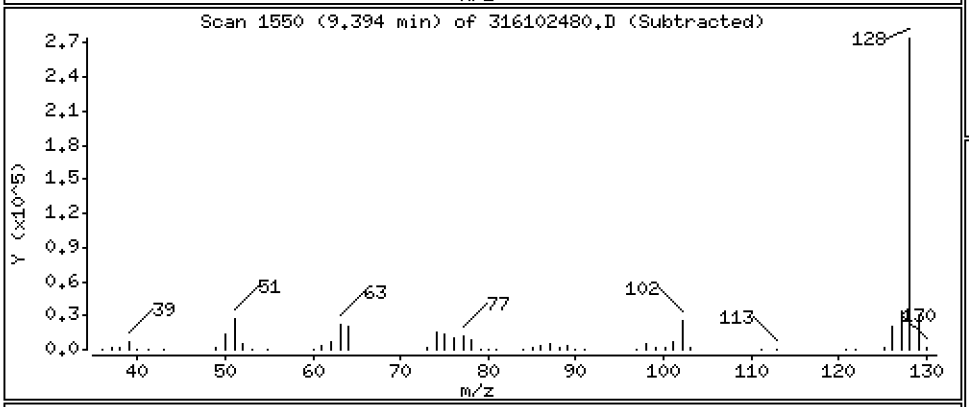
Sample Info: 1801;;1;2;4;;;

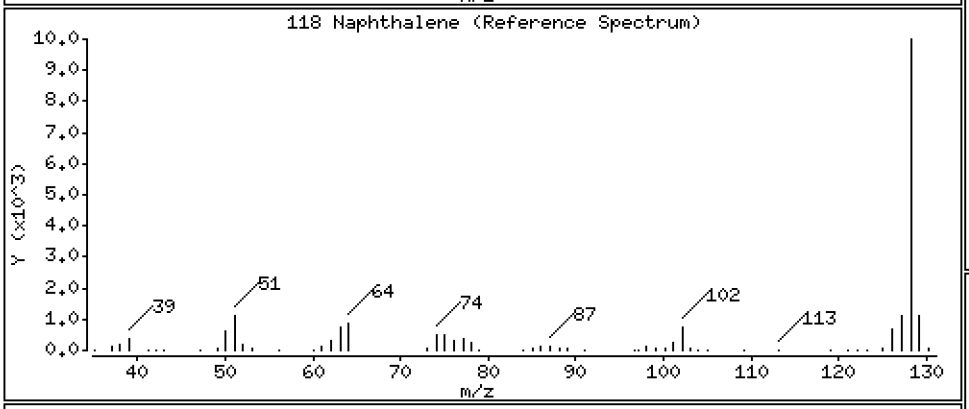
Purge Volume: 5.0 Operator: CJG

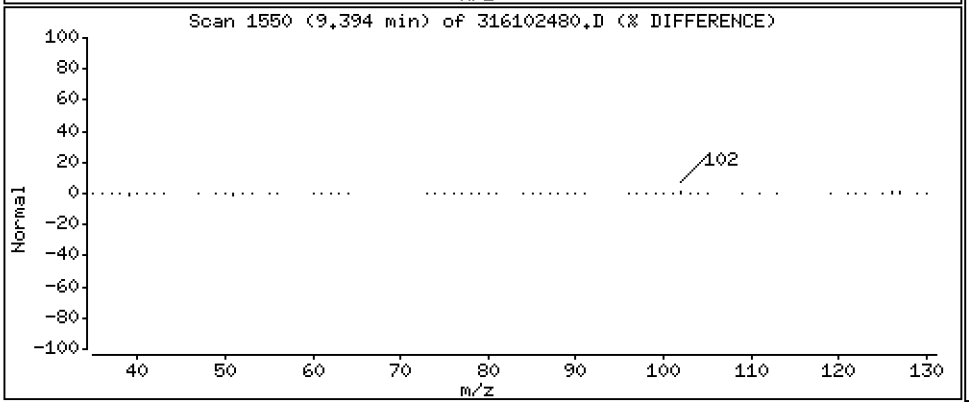
Column phase: DB-VRX Column diameter: 0.25

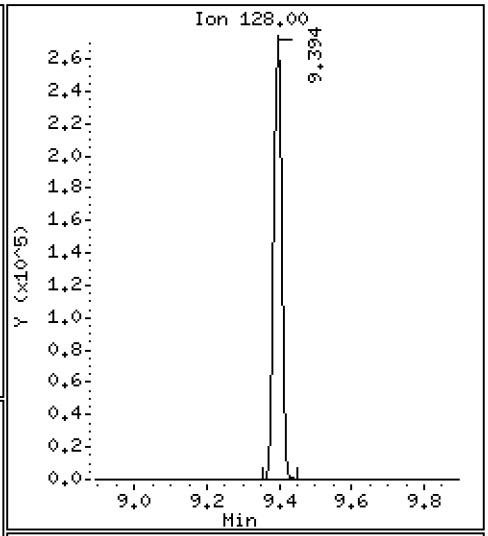
118 Naphthalene Concentration: 45.1577 ug/L

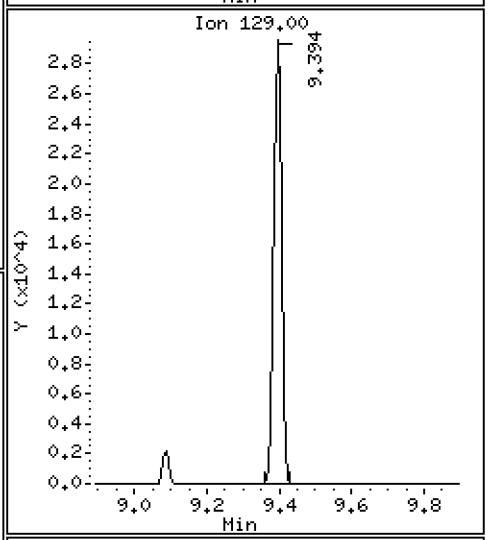


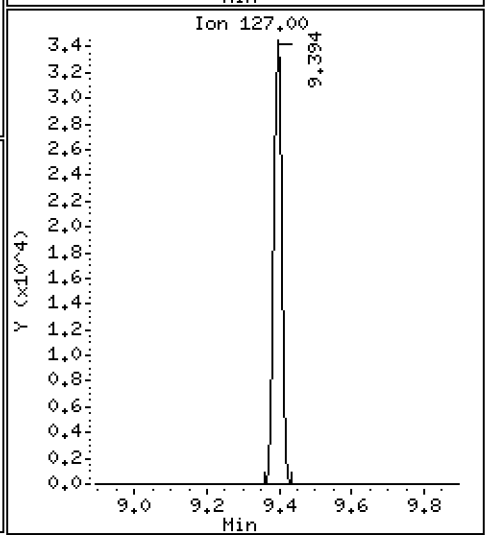












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 123

Date : 25-OCT-2016 09:17

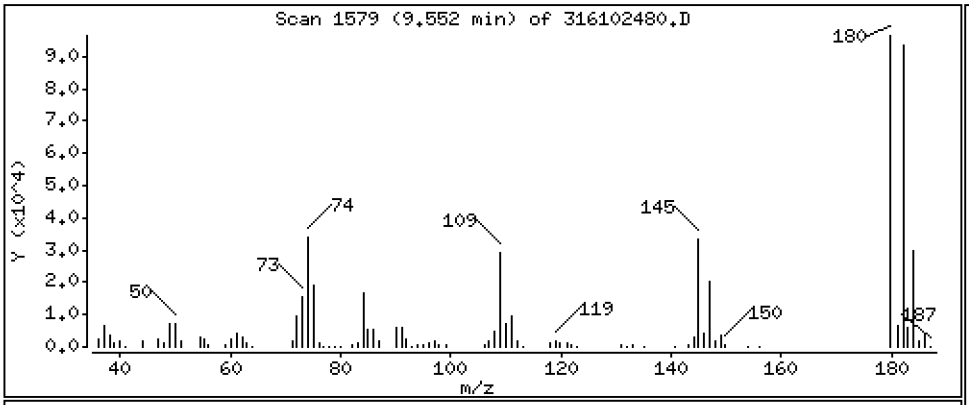
Client ID: Instrument: ms03.i

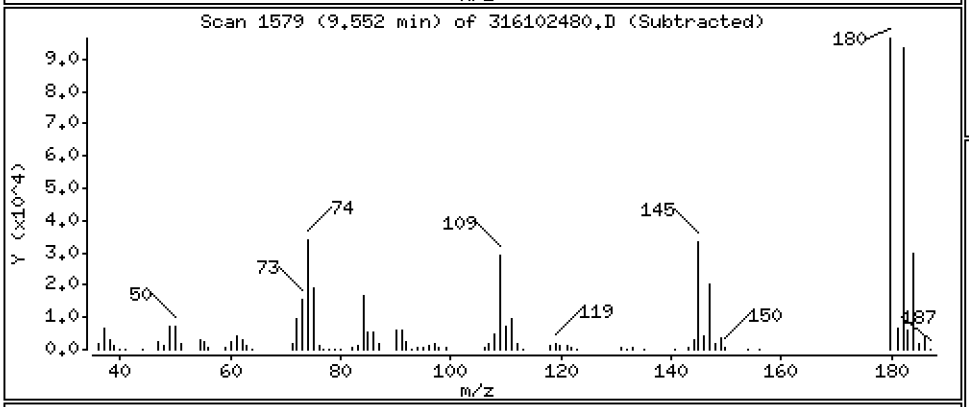
Sample Info: 1801;;1;2;4;;;

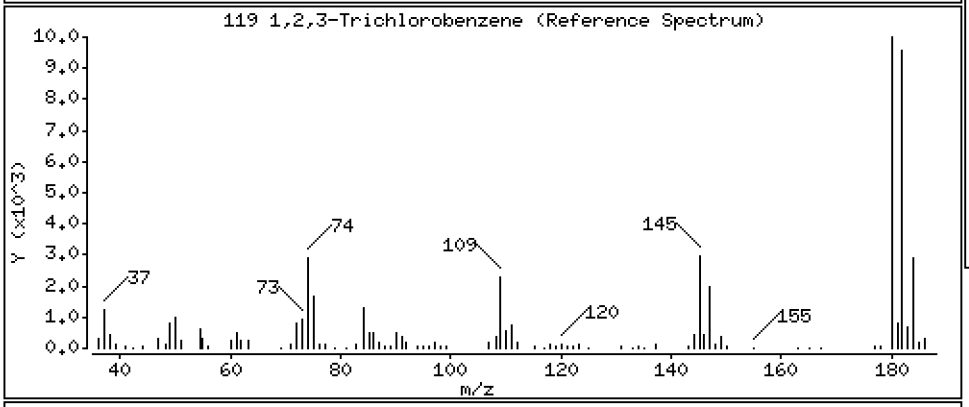
Purge Volume: 5.0 Operator: CJG

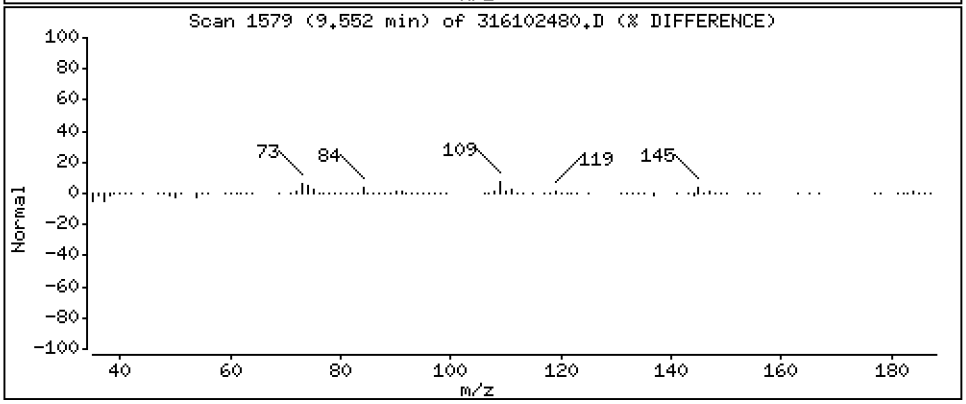
Column phase: DB-VRX Column diameter: 0.25

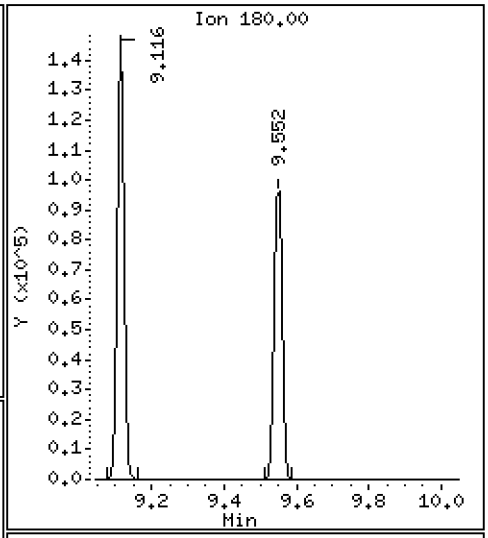
119 1,2,3-Trichlorobenzene Concentration: 45.8649 ug/L

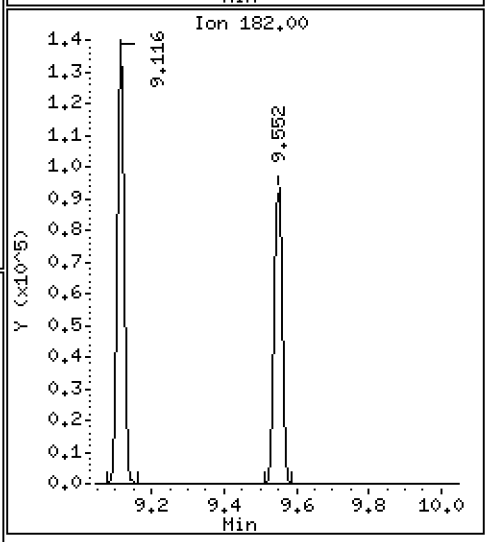












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 124

Date : 25-OCT-2016 09:17

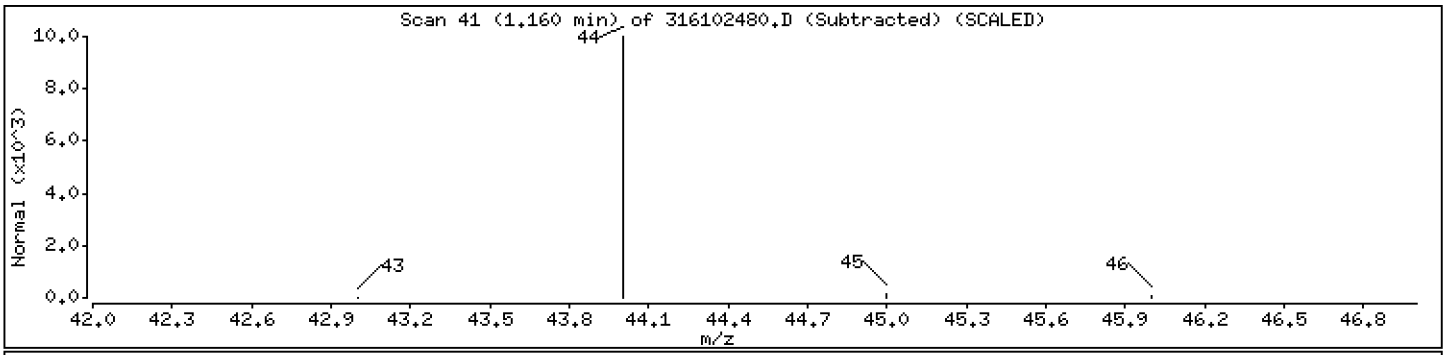
Client ID: Instrument: ms03.i

Sample Info: 1801;;1;2;4;;;

Purge Volume: 5.0 Operator: CJG

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 125

Date : 25-OCT-2016 09:17

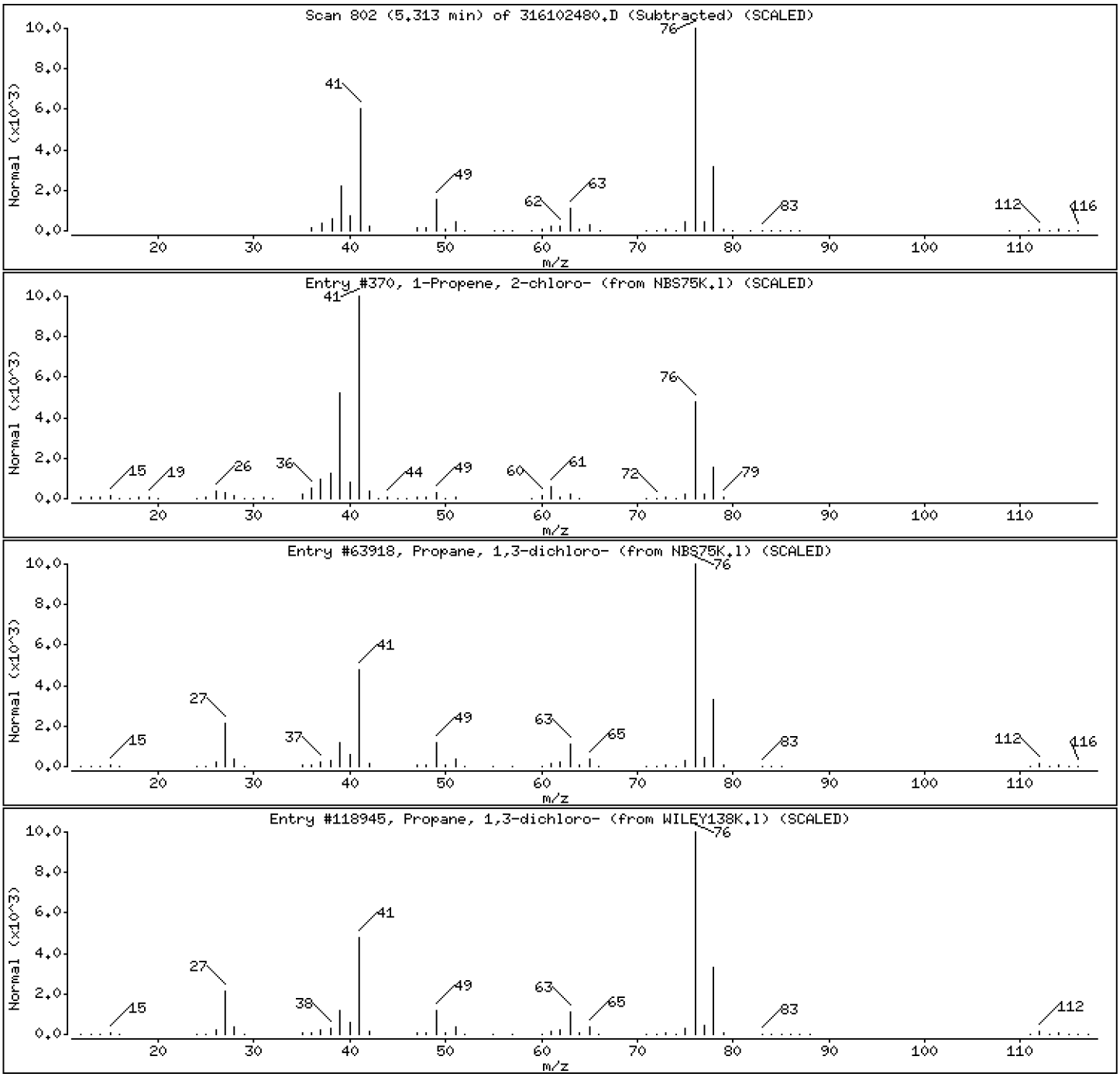
Client ID: Instrument: ms03.i

Sample Info: 1801;;1;2;4;;;

Purge Volume: 5.0 Operator: CJG

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Propene, 2-chloro-	557-98-2	NBS75K.l	370	86	C3H5Cl	76
Propane, 1,3-dichloro-	142-28-9	NBS75K.l	63918	83	C3H6Cl2	112
Propane, 1,3-dichloro-	142-28-9	WILEY138K.l	118945	83	C3H6Cl2	112



Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 126

Date : 25-OCT-2016 09:17

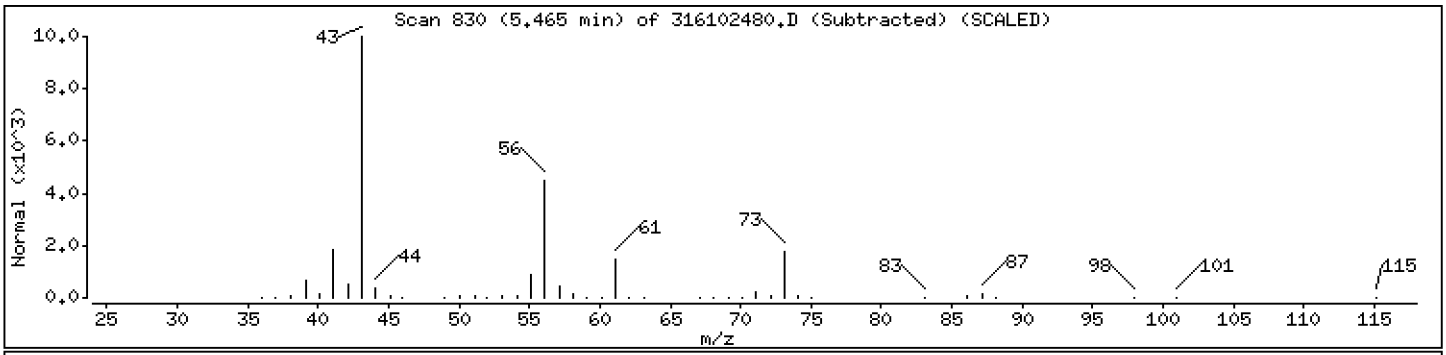
Client ID: Instrument: ms03.i

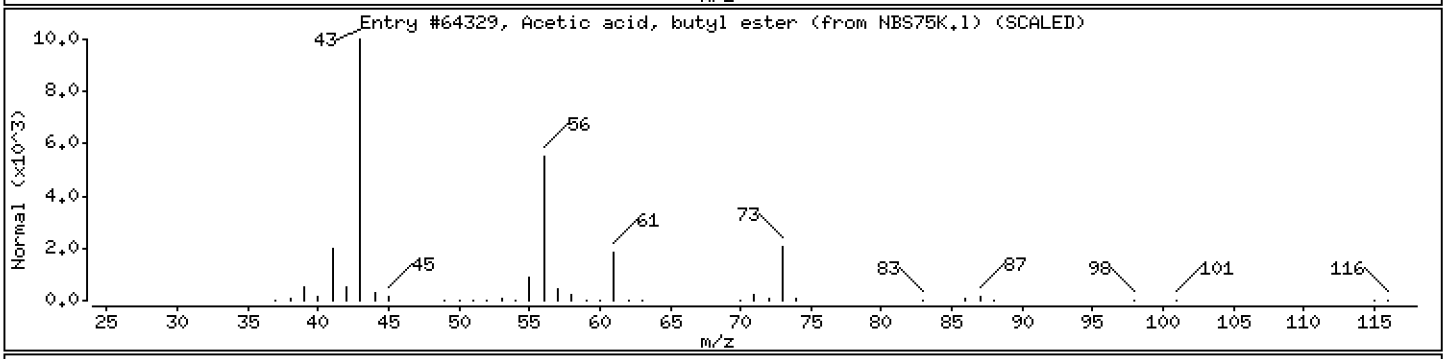
Sample Info: 1801;;1;2;4;;;

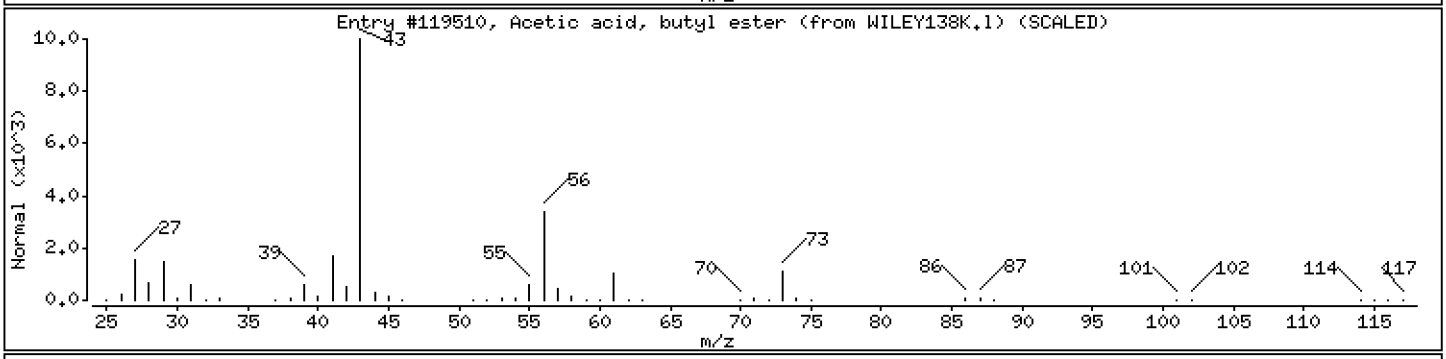
Purge Volume: 5.0 Operator: CJG

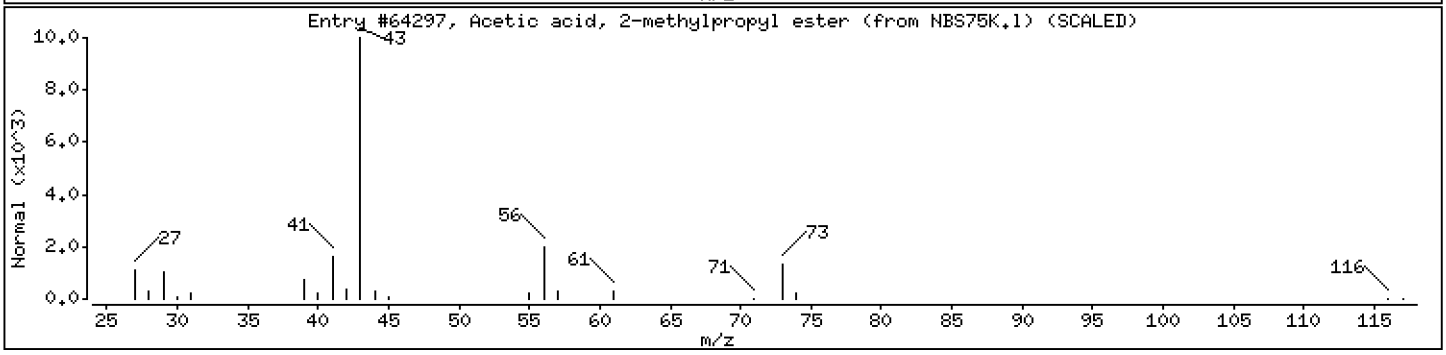
Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, butyl ester	123-86-4	NBS75K.l	64329	90	C6H12O2	116
Acetic acid, butyl ester	123-86-4	WILEY138K.l	119510	83	C6H12O2	116
Acetic acid, 2-methylpropyl ester	110-19-0	NBS75K.l	64297	42	C6H12O2	116









Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102480.D Page 127

Date : 25-OCT-2016 09:17

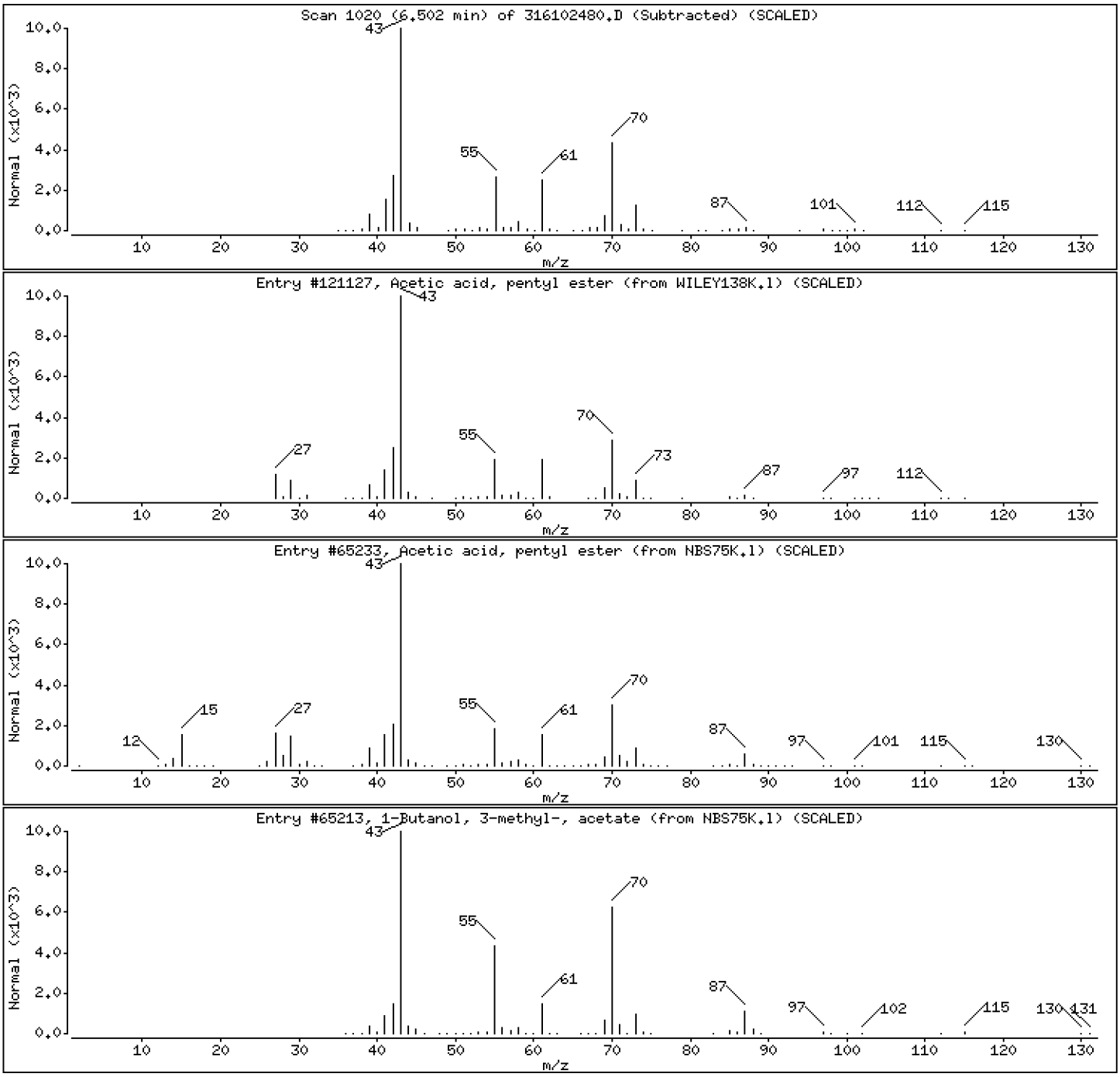
Client ID: Instrument: ms03.i

Sample Info: 1801;;1;2;4;;;

Purge Volume: 5.0 Operator: CJG

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, pentyl ester	628-63-7	WILEY138K.l	121127	83	C7H1402	130
Acetic acid, pentyl ester	628-63-7	NBS75K.l	65233	78	C7H1402	130
1-Butanol, 3-methyl-, acetate	123-92-2	NBS75K.l	65213	40	C7H1402	130

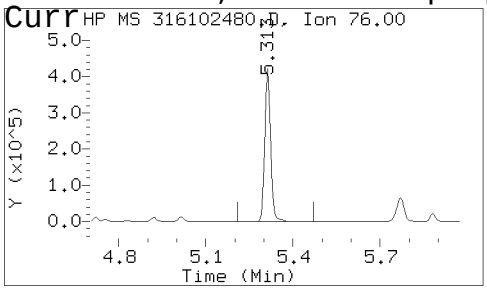


MANUAL INTEGRATION REPORT

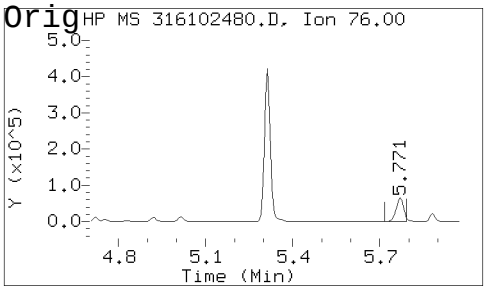
Report Date: 10/25/2016 10:29
Lab Sample ID: 1801 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102480.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102480.D
Injection Date: 25-OCT-2016 09:17 Operator: CJG

1,3-Dichloropropane

Curr



Orig



Curr. Area: 583169
Orig. Area: 120094

Curr. ON-COL: 45.5083
Orig. ON-COL: 9.37168

UNASSIGNED PEAK REPORT

Report Date: 10/25/2016 10:29
Lab Sample ID: 1801 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161024A.b/316102480.D
RawFile:/Chem2/ms03.i/03_2016/3161024A.b/RawData/316102480.D
Injection Date: 25-OCT-2016 09:17 Operator: CJG

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS Global SDG No.: PQF-049

Instrument ID: ms03.i Calibration Date/Time: 10/26/2016 09:18
Lab File ID: 316102601Adod.D Init. Calib. Date(s): 10/24/2016 10/25/2016
Heated Purge: (Y/N) N Init. Calib. Time(s): 23:25 01:36
GC Column: RTXVRX ID: 0.25 (mm)

COMPOUND	RRF	RRF050	Conc. CC std	MIN RRF	%D	MAX%D	CT
Acetone	0.0196	0.0204			4.0	20.0	A
Acrolein	0.0356	0.0382			7.3	20.0	A
Acrylonitrile	0.0868	0.0919			5.9	20.0	A
Acetonitrile	250		320		28.0 *	20.0	L
tert-Amyl Ethylether	0.5082	0.5234			3.0	20.0	A
tert-Amyl methyl ether	0.5705	0.5741			0.6	20.0	A
tert-Amyl Alcohol	250		274		9.8	20.0	Q
Benzene	1.0976	1.0189			-7.2	20.0	A
Benzyl Chloride	50.0000		47.4207		-5.2	20.0	Q
Bromobenzene	0.7622	0.6805			-10.7	20.0	A
Bromochloromethane	0.1024	0.0962			-6.0	20.0	A
Bromodichloromethane	0.2715	0.2666			-1.8	20.0	A
Bromoform	50.0000		42.2766	0.100	-15.4	20.0	Q
Bromomethane	50.0000		53.2334		6.5	20.0	Q
2-Butanone	0.0284	0.0297			4.5	20.0	A
tert.- Butyl Alcohol	0.0137	0.0161			17.8	20.0	A
tert-Butylbenzene	0.6028	0.6039			0.2	20.0	A
n-Butylbenzene	0.5585	0.5947			6.5	20.0	A
sec-Butylbenzene	3.3286	3.5341			6.2	20.0	A
Carbon Disulfide	0.6463	0.5806			-10.2	20.0	A
Carbon Tetrachloride	0.2523	0.2325			-7.9	20.0	A
Chloroacetonitrile	250		280		12.0	20.0	Q
Chlorobenzene	1.4993	1.2906		0.300	-13.9	20.0	A
1-Chlorobutane	50.0000		52.7211		5.4	20.0	L
Chlorodibromomethane	0.3736	0.3608			-3.4	20.0	A
Chloroethane	50.0000		50.3422		0.7	20.0	L
2-Chloroethylvinyl ether	50.0000		45.6395		-8.7	20.0	L
Chloroform	50.0000		49.7635		-0.5	20.0	Q
1-Chlorohexane	0.7289	0.7316			0.4	20.0	A
Chloromethane	50.0000		53.1244	0.100	6.2	20.0	Q
Chloroprene	0.3631	0.3554			-2.1	20.0	A
3-Chloro-1-propene	0.3156	0.3229			2.3	20.0	A
o-Chlorotoluene	2.8547	2.7606			-3.3	20.0	A
p-Chlorotoluene	2.6007	2.5152			-3.3	20.0	A
Cyclohexane	0.3954	0.3779			-4.4	20.0	A

Calibration Type: A=Average Response Factor, L=Linear Regression, Q=Quadratic Regression
Compounds with "Calibration Type" other than "A" are calculated as % Drift due to alternate calibration type.

Form VII VOA 8260B

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS Global SDG No.: PQF-049

Instrument ID: ms03.i Calibration Date/Time: 10/26/2016 09:18
Lab File ID: 316102601Adod.D Init. Calib. Date(s): 10/24/2016 10/25/2016
Heated Purge: (Y/N) N Init. Calib. Time(s): 23:25 01:36
GC Column: RTXVRX ID: 0.25 (mm)

COMPOUND	RRF	RRF050	Conc. CC std	MIN RRF	%D	MAX%D	CT
1,2-Dibromo-3-Chloropropane	50.0000		47.5639		-4.9	20.0	Q
1,2-Dibromoethane	0.4132	0.3852			-6.8	20.0	A
Dibromomethane	0.1334	0.1256			-5.8	20.0	A
trans-1,4-Dichloro-2-butene	0.2105	0.2106			0.0	20.0	A
1,2-Dichlorobenzene	50.0000		49.5496		-0.9	20.0	Q
1,3-Dichlorobenzene	50.0000		49.4025		-1.2	20.0	Q
1,4-Dichlorobenzene	50.0000		49.7195		-0.6	20.0	Q
Dichlorodifluoromethane	50.0000		49.0722		-1.9	20.0	Q
1,1-Dichloroethane	0.4794	0.4450			-7.2	20.0	A
1,2-Dichloroethene, Total	0.3681	0.3448			-6.3	20.0	A
1,2-Dichloroethane	0.3251	0.3080			-5.3	20.0	A
1,1-Dichloroethene	0.3789	0.3455			-8.8	20.0	A
cis-1,2-Dichloroethene	0.3680	0.3456			-6.1	20.0	A
trans-1,2-Dichloroethene	0.3682	0.3441			-6.5	20.0	A
Dichlorofluoromethane	0.5479	0.4922			-10.2	20.0	A
1,1-Dichloro-2-Propanone	250		248		-0.8	20.0	Q
2,2-Dichloropropane	50.0000		51.2464		2.5	20.0	Q
1,3-Dichloropropane	0.8966	0.8314			-7.3	20.0	A
1,2-Dichloropropane	0.2697	0.2643			-2.0	20.0	A
1,1-Dichloropropene	0.3555	0.3313			-6.8	20.0	A
cis-1,3-Dichloropropene	0.8096	0.8215			1.5	20.0	A
trans-1,3-Dichloropropene	0.7035	0.7345			4.4	20.0	A
1,3-Dichloropropene, Total	0.7565	0.7780			2.8	20.0	A
Diisobutylene	50.0000		60.4641		20.9 *	20.0	L
Diisopropyl ether	0.8317	0.8648			4.0	20.0	A
1,4-Dioxane	0.0009	0.0017			89.3 *	20.0	A
Ethyl Acetate	0.2106	0.2310			9.7	20.0	A
Ethyl ether	0.1822	0.1663			-8.8	20.0	A
Ethyl Methacrylate	0.6447	0.7012			8.8	20.0	A
Ethyl tert-butyl ether	0.7060	0.7407			4.9	20.0	A
Ethylbenzene	0.8189	0.7274			-11.2	20.0	A
Freon 113	0.2137	0.1938			-9.3	20.0	A
Heptane	0.1622	0.1955			20.5 *	20.0	A
Hexachlorobutadiene	50.0000		55.7103		11.4	20.0	Q
Hexachloroethane	0.3875	0.3679			-5.1	20.0	A

Calibration Type: A=Average Response Factor, L=Linear Regression, Q=Quadratic Regression
Compounds with "Calibration Type" other than "A" are calculated as % Drift due to alternate calibration type.

Form VII VOA 8260B

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS Global SDG No.: PQF-049

Instrument ID: ms03.i Calibration Date/Time: 10/26/2016 09:18
Lab File ID: 316102601Adod.D Init. Calib. Date(s): 10/24/2016 10/25/2016
Heated Purge: (Y/N) N Init. Calib. Time(s): 23:25 01:36
GC Column: RTXVRX ID: 0.25 (mm)

COMPOUND	RRF	RRF050	Conc. CC std	MIN RRF	%D	MAX%D	CT
Hexane	0.5186	0.5678			9.5	20.0	A
2-Hexanone	0.3121	0.3526			13.0	20.0	A
Iodomethane	50.0000		49.1496		-1.7	20.0	Q
Isobutyl alcohol	500		719		43.9 *	20.0	Q
Isopropyl Alcohol	250		331		32.5 *	20.0	L
Isopropylbenzene	3.6356	3.5690			-1.8	20.0	A
p-Isopropyltoluene	0.6342	0.6828			7.7	20.0	A
Methyl acetate	0.0390	0.0380			-2.6	20.0	A
Methyl acrylate	0.2043	0.2156			5.5	20.0	A
Methacrylonitrile	0.0999	0.0984			-1.5	20.0	A
Methyl cyclohexane	0.9959	0.9979			0.2	20.0	A
Methyl methacrylate	0.1859	0.2052			10.4	20.0	A
Methyl t-Butyl Ether	0.6355	0.6243			-1.8	20.0	A
4-Methyl-2-Pentanone(MIBK)	0.4927	0.5394			9.5	20.0	A
Methylene Chloride	50.0000		49.8850		-0.2	20.0	Q
Naphthalene	50.0000		48.7899		-2.4	20.0	Q
Nitrobenzene	500		356		-28.8 *	20.0	L
2-Nitropropane	250		244		-2.3	20.0	Q
Octane	50.0000		59.3509		18.7	20.0	L
Pentachloroethane	0.5018	0.4775			-4.8	20.0	A
Pentane	50.0000		56.5935		13.2	20.0	L
n-Propanol	500		548		9.5	20.0	L
Propionitrile	0.0325	0.0342			5.2	20.0	A
n-Propylbenzene	0.9193	0.9183			-0.1	20.0	A
Styrene	2.2250	2.2148			-0.5	20.0	A
1,1,1,2-Tetrachloroethane	0.3937	0.3702			-6.0	20.0	A
1,1,2,2-Tetrachloroethane	0.8817	0.8292		0.300	-5.9	20.0	A
Tetrachloroethene	50.0000		49.9072		-0.2	20.0	Q
Tetrahydrofuran	0.0667	0.0708			6.1	20.0	A
Toluene	1.4291	1.3189			-7.7	20.0	A
Total Xylenes	0.9199	0.8580			-6.7	20.0	A
1,2,3-Trichlorobenzene	0.3115	0.3327			6.8	20.0	A
1,2,4-Trichlorobenzene	50.0000		51.1237		2.2	20.0	Q
1,1,1-Trichloroethane	0.3363	0.3289			-2.2	20.0	A
1,1,2-Trichloroethane	0.4155	0.3849			-7.3	20.0	A

Calibration Type: A=Average Response Factor, L=Linear Regression, Q=Quadratic Regression
Compounds with "Calibration Type" other than "A" are calculated as % Drift due to alternate calibration type.

Form VII VOA 8260B

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ALS Global SDG No.: PQF-049

Instrument ID: ms03.i Calibration Date/Time: 10/26/2016 09:18
Lab File ID: 316102601Adod.D Init. Calib. Date(s): 10/24/2016 10/25/2016
Heated Purge: (Y/N) N Init. Calib. Time(s): 23:25 01:36
GC Column: RTXVRX ID: 0.25 (mm)

COMPOUND	RRF	RRF050	Conc. CC std	MIN RRF	%D	MAX%D	CT
Trichloroethene	0.2613	0.2301			-11.9	20.0	A
Trichlorofluoromethane	50.0000		48.6965		-2.6	20.0	L
1,2,3-Trichloropropane	0.2621	0.2405			-8.2	20.0	A
1,2,4-Trimethylbenzene	2.6028	2.7096			4.1	20.0	A
1,3,5-Trimethylbenzene	2.6620	2.7477			3.2	20.0	A
Vinyl Acetate	50.0000		45.8984		-8.2	20.0	L
Vinyl Chloride	50.0000		50.3924		0.8	20.0	L
o-Xylene	0.8485	0.8167			-3.7	20.0	A
mp-Xylene	0.9556	0.8787			-8.1	20.0	A
4-Bromofluorobenzene	50.0000		49.0516		-1.9	20.0	L
Dibromofluoromethane	0.1978	0.1787			-9.7	20.0	A
1,2-Dichloroethane-d4	50.0000		55.7232		11.4	20.0	L
Toluene-d8	50.0000		48.1790		-3.6	20.0	Q

Calibration Type: A=Average Response Factor, L=Linear Regression, Q=Quadratic Regression
Compounds with "Calibration Type" other than "A" are calculated as % Drift due to alternate calibration type.

Form VII VOA 8260B

Data File: 316102601Adod.D Page 1
Report Date: 27-Oct-2016 11:05

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601
Lab Smp Id: 1800
Inj Date : 26-OCT-2016 09:18
Operator : DD Inst ID: ms03.i
Smp Info : 1800;;1;2;4;;;
Misc Info : ZZ VOMS 41271 8260W_CCV
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b09
Meth Date : 27-Oct-2016 10:55 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.258	(0.332)	581398	50.0000	49.0722	
2 Chloromethane	50	1.389	1.389	(0.367)	568457	50.0000	53.1244	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	597950	50.0000	50.3924	
4 Bromomethane	94	1.640	1.640	(0.433)	256689	50.0000	53.2334	
5 Chloroethane	64	1.717	1.717	(0.453)	368864	50.0000	50.3422	
6 Pentane	41	1.793	1.793	(0.473)	357528	50.0000	56.5935	
7 Trichlorofluoromethane	101	1.799	1.799	(0.475)	650233	50.0000	48.6965	
8 Dichlorofluoromethane	67	1.826	1.826	(0.482)	800238	50.0000	44.9117	
9 Ethyl Ether	74	1.968	1.968	(0.519)	270311	50.0000	45.6144	
10 1,1-Dichloroethene	61	2.088	2.088	(0.551)	561761	50.0000	45.5994	
11 Freon 113	101	2.099	2.099	(0.554)	315035	50.0000	45.3418	
12 Carbon Disulfide	76	2.120	2.120	(0.560)	944052	50.0000	44.9214	
13 Iodomethane	127	2.180	2.180	(0.575)	93629	50.0000	49.1496	
14 Acrolein	56	2.273	2.273	(0.600)	620648	500.000	536.557	
15 Isopropyl Alcohol	45	2.333	2.333	(0.616)	87303	250.000	331.322	
16 3-Chloro-1-propene	41	2.344	2.344	(0.619)	525054	50.0000	51.1580	
17 Methylene Chloride	84	2.404	2.404	(0.634)	397118	50.0000	49.8850	
18 Acetone	58	2.426	2.426	(0.640)	166019	250.000	259.905	
19 Methyl acetate	74	2.481	2.481	(0.655)	61746	50.0000	48.7139	
20 trans-1,2-Dichloroethene	61	2.486	2.486	(0.656)	559504	50.0000	46.7264	
21 Hexane	57	2.519	2.519	(0.665)	923249	50.0000	54.7463	

Data File: 316102601Adod.D Page 2
Report Date: 27-Oct-2016 11:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.530	2.530	(0.667)	1015099	50.0000	49.1238	
	23 tert.- Butyl Alcohol	59	2.568	2.568	(0.678)	131003	250.000	294.573	
	24 Acetonitrile	41	2.682	2.682	(0.708)	214789	250.000	320.123	
	25 Diisopropyl ether	45	2.721	2.721	(0.718)	1405993	50.0000	51.9839	
	26 Chloroprene	53	2.797	2.797	(0.738)	577871	50.0000	48.9429	
	27 1,1-Dichloroethane	63	2.813	2.813	(0.742)	723477	50.0000	46.4085	
	28 Acrylonitrile	53	2.841	2.841	(0.750)	746999	250.000	264.670	
	29 Ethyl tert-butyl ether	59	2.912	2.912	(0.768)	1204364	50.0000	52.4595	
	30 n-Propanol	41	2.912	2.912	(0.768)	263831	500.000	547.516(a)	
	31 Vinyl Acetate	86	2.928	2.928	(0.773)	78301	50.0000	45.8984	
	32 cis-1,2-Dichloroethene	61	3.097	3.097	(0.817)	561852	50.0000	46.9502	
	33 2,2-Dichloropropane	77	3.157	3.157	(0.833)	487394	50.0000	51.2464	
	34 Bromochloromethane	128	3.206	3.206	(0.846)	156475	50.0000	47.0001	
	35 Cyclohexane	84	3.212	3.212	(0.847)	614404	50.0000	47.7805	
	36 Chloroform	83	3.234	3.234	(0.853)	709735	50.0000	49.7634	
	37 Ethyl Acetate	43	3.277	3.277	(0.865)	375577	50.0000	54.8353	
	38 Methyl acrylate	55	3.294	3.294	(0.869)	350533	50.0000	52.7685	
	39 Carbon Tetrachloride	117	3.321	3.321	(0.876)	378065	50.0000	46.0745	
	40 Tetrahydrofuran	42	3.332	3.332	(0.879)	575887	250.000	265.367	
$	41 Dibromofluoromethane	113	3.337	3.337	(0.881)	290491	50.0000	45.1606	
	42 1,1,1-Trichloroethane	97	3.359	3.359	(0.886)	534775	50.0000	48.8982	
	43 2-Butanone	72	3.397	3.397	(0.896)	241681	250.000	261.262	
	44 1,1-Dichloropropene	75	3.425	3.425	(0.904)	538633	50.0000	46.5904	
	45 1-Chlorobutane	41	3.446	3.446	(0.909)	441970	50.0000	52.7211	
	46 Heptane	71	3.512	3.512	(0.927)	317820	50.0000	60.2561	
	47 Benzene	78	3.561	3.561	(0.940)	1656639	50.0000	46.4135	
	48 Propionitrile	54	3.577	3.577	(0.944)	277694	250.000	262.930	
	49 Methacrylonitrile	67	3.583	3.583	(0.945)	160036	50.0000	49.2444	
	50 tert-Amyl methyl ether	73	3.599	3.599	(0.950)	933479	50.0000	50.3191	
$	51 1,2-Dichloroethane-d4	65	3.637	3.637	(0.960)	426366	50.0000	55.7232	
	52 1,2-Dichloroethane	62	3.676	3.676	(0.970)	500727	50.0000	47.3682	
	53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	100984	250.000	274.415	
	54 Isobutyl alcohol	43	3.632	3.632	(0.958)	138444	500.000	719.279	
*	55 Fluorobenzene	96	3.790	3.790	(1.000)	975538	30.0000		
	56 Diisobutylene	57	3.796	3.796	(1.001)	1209959	50.0000	60.4641	
	57 Trichloroethene	95	3.883	3.883	(1.024)	374145	50.0000	44.0357	
	58 Methyl cyclohexane	83	3.883	3.883	(0.674)	708002	50.0000	50.1016	
	59 tert-Amyl Ethylether	59	3.987	3.987	(1.052)	851018	50.0000	51.4997	
	60 Dibromomethane	93	4.139	4.139	(1.092)	204167	50.0000	47.0802	
	61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	429712	50.0000	48.9893	
	62 Bromodichloromethane	83	4.221	4.221	(1.114)	433423	50.0000	49.0951	
	63 Methyl methacrylate	41	4.292	4.292	(1.132)	333575	50.0000	55.1851	
	64 1,4-Dioxane	88	4.336	4.336	(1.144)	68856	1250.00	2365.87	
	65 2-Chloroethylvinyl ether	63	4.549	4.549	(1.200)	194968	50.0000	45.6395	
	66 cis-1,3-Dichloropropene	75	4.603	4.603	(0.799)	582849	50.0000	50.7376	
	67 Octane	85	4.609	4.609	(0.800)	204787	50.0000	59.3509	
$	68 Toluene-d8	98	4.723	4.723	(0.820)	1271480	50.0000	48.1790	
	69 Toluene	92	4.756	4.756	(0.826)	935760	50.0000	46.1444	
	70 Chloroacetonitrile	48	4.832	4.832	(0.839)	51810	250.000	280.015	
	71 2-Nitropropane	41	4.909	4.909	(0.852)	368047	250.000	244.336	
	72 1,1-Dichloro-2-Propanone	63	4.920	4.920	(0.854)	34728	250.000	248.095	
	73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.985	(0.865)	1913531	250.000	273.711	
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	246610	50.0000	49.9072	
	75 trans-1,3-Dichloropropene	75	5.012	5.012	(0.870)	521131	50.0000	52.2082	

Data File: 316102601Adod.D Page 3
Report Date: 27-Oct-2016 11:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	76 Ethyl Methacrylate	69	5.094	5.094	(0.884)	497460	50.0000	54.3790	
	77 1,1,2-Trichloroethane	83	5.127	5.127	(0.890)	273105	50.0000	46.3268	
	78 Chlorodibromomethane	129	5.247	5.247	(0.911)	256012	50.0000	48.2884	
	79 1,3-Dichloropropane	76	5.312	5.312	(0.922)	589841	50.0000	46.3621(M)	H
	80 1,2-Dibromoethane	107	5.422	5.422	(0.941)	273300	50.0000	46.6081	
	81 2-Hexanone	43	5.542	5.542	(0.962)	1250763	250.000	282.455	
	82 1-Chlorohexane	91	5.738	5.738	(0.996)	519031	50.0000	50.1847	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	425693	30.0000		
	84 Chlorobenzene	112	5.771	5.771	(1.002)	915640	50.0000	43.0376	
	85 Ethylbenzene	106	5.782	5.782	(1.004)	516083	50.0000	44.4106	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.814	(1.009)	262671	50.0000	47.0207	
	87 mp-Xylene	106	5.880	5.880	(1.021)	1246828	100.000	91.9475	
	88 o-Xylene	106	6.196	6.196	(1.076)	579474	50.0000	48.1312	
	89 Styrene	104	6.235	6.235	(0.829)	960172	50.0000	49.7718	
	90 Bromoform	173	6.262	6.262	(0.832)	105030	50.0000	42.2766	
	91 Isopropylbenzene	105	6.426	6.426	(0.854)	1547229	50.0000	49.0837	
$	92 4-Bromofluorobenzene	174	6.649	6.649	(0.884)	264074	50.0000	49.0516	
	93 Bromobenzene	156	6.731	6.731	(0.895)	295021	50.0000	44.6443	
	94 n-Propylbenzene	120	6.737	6.737	(0.896)	398120	50.0000	49.9461	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.791	(0.903)	359486	50.0000	47.0264	
	96 o-Chlorotoluene	91	6.868	6.868	(0.913)	1196769	50.0000	48.3510	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.915)	1191198	50.0000	51.6096	
	98 1,2,3-Trichloropropane	110	6.906	6.906	(0.918)	104277	50.0000	45.8939	
	99 trans-1,4-Dichloro-2-butene	53	6.933	6.933	(0.922)	91294	50.0000	50.0122	
M	100 1,2-Dichloroethene, Total	61				1121356	100.000	93.6766	
	101 p-Chlorotoluene	91	6.993	6.993	(0.930)	1090390	50.0000	48.3553	
	102 tert-Butylbenzene	134	7.140	7.140	(0.949)	261823	50.0000	50.0940	
	103 Pentachloroethane	117	7.162	7.162	(0.952)	207025	50.0000	47.5795	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.956)	1174682	50.0000	52.0517	
	105 sec-Butylbenzene	105	7.277	7.277	(0.967)	1532095	50.0000	53.0857	
	106 p-Isopropyltoluene	134	7.391	7.391	(0.983)	296001	50.0000	53.8299	
	107 1,3-Dichlorobenzene	146	7.462	7.462	(0.992)	533746	50.0000	49.4025	
*	108 1,4-Dichlorobenzene-d4	152	7.522	7.522	(1.000)	260113	30.0000		
	109 1,4-Dichlorobenzene	146	7.533	7.533	(1.001)	542342	50.0000	49.7195	
	110 Benzyl Chloride	126	7.735	7.735	(1.028)	70326	50.0000	47.4207	
	111 n-Butylbenzene	134	7.735	7.735	(1.028)	257815	50.0000	53.2426	
	112 Hexachloroethane	117	7.850	7.850	(1.044)	159495	50.0000	47.4674	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.047)	481706	50.0000	49.5496	
	114 1,2-Dibromo-3-chloropropane	75	8.543	8.543	(1.136)	38784	50.0000	47.5639	
	115 Nitrobenzene	77	9.023	9.023	(1.199)	14405	500.000	355.944	
	116 Hexachlorobutadiene	225	9.088	9.088	(1.208)	100825	50.0000	55.7103	
	117 1,2,4-Trichlorobenzene	180	9.116	9.116	(1.212)	213273	50.0000	51.1237	
	118 Naphthalene	128	9.394	9.394	(1.249)	379603	50.0000	48.7899	
	119 1,2,3-Trichlorobenzene	180	9.547	9.547	(1.269)	144255	50.0000	53.4060	
M	120 1,3-Dichloropropene, Total	75				1103980	100.000	102.946	
M	121 Total Xylenes	106				1826302	150.000	140.079	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: 316102601Adod.D Page 4
Report Date: 27-Oct-2016 11:05

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 25-OCT-2016
Lab File ID: 316102601Adod.D Calibration Time: 21:59
Lab Smp Id: 1800
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: DD
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b0
Misc Info: ZZ VOMS 41271 8260W_CCV

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	975538	-3.71
83 Chlorobenzene-d5	432864	216432	865728	425693	-1.66
108 1,4-Dichlorobenze	273837	136919	547674	260113	-5.01

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102601Adod.D Page 5
Report Date: 27-Oct-2016 11:05

ALS Environmental Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ms03.i Injection Date: 26-OCT-2016 09:18
Lab File ID: 316102601Adod.D Init. Cal. Date(s): 24-OCT-2016 25-OCT-2016
Analysis Type: WATER Init. Cal. Times: 23:25 01:36
Lab Sample ID: 1800 Quant Type: ISTD
Method: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b09dod.

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Dichlorodifluoromethane	50.00000	49.07219	2.79653	0.010	-1.85563	100	Quadratic
2 Chloromethane	50.00000	53.12436	2.86019	0.100	6.24871	100	Quadratic
3 Vinyl Chloride	50.00000	50.39241	2.71912	0.010	0.78482	20.00000	Linear
4 Bromomethane	50.00000	53.23337	6.33411	0.010	6.46675	100	Quadratic
5 Chloroethane	50.00000	50.34221	4.40785	0.010	0.68442	100	Linear
6 Pentane	50.00000	56.59348	4.54761	0.010	13.18696	100	Linear
7 Trichlorofluoromethane	50.00000	48.69648	2.50048	0.010	-2.60705	100	Linear
8 Dichlorofluoromethane	0.54794	0.49218	0.49218	0.010	-10.17653	100	Averaged
9 Ethyl Ether	0.18224	0.16625	0.16625	0.010	-8.77111	100	Averaged
10 1,1-Dichloroethene	0.37885	0.34551	0.34551	0.010	-8.80117	20.00000	Averaged
11 Freon 113	0.21367	0.19376	0.19376	0.010	-9.31637	100	Averaged
12 Carbon Disulfide	0.64628	0.58063	0.58063	0.010	-10.15719	100	Averaged
13 Iodomethane	50.00000	49.14955	17.36531	0.010	-1.70089	100	Quadratic
14 Acrolein	0.03557	0.03817	0.03817	0.000	7.31139	100	Averaged
15 Isopropyl Alcohol	250	331	93.11803	0.000	32.52896	100	Linear
16 3-Chloro-1-propene	0.31562	0.32293	0.32293	0.010	2.31604	100	Averaged
17 Methylene Chloride	50.00000	49.88497	4.09424	0.010	-0.23005	100	Quadratic
18 Acetone	0.01964	0.02042	0.02042	0.000	3.96214	100	Averaged
19 Methyl acetate	0.03898	0.03798	0.03798	0.005	-2.57229	100	Averaged
20 trans-1,2-Dichloroethene	0.36823	0.34412	0.34412	0.010	-6.54711	100	Averaged
21 Hexane	0.51861	0.56784	0.56784	0.010	9.49252	100	Averaged
22 Methyl t-Butyl Ether	0.63547	0.62433	0.62433	0.010	-1.75238	100	Averaged
23 tert.- Butyl Alcohol	0.01368	0.01611	0.01611	0.000	17.82934	100	Averaged
24 Acetonitrile	250	320	37.84869	0.000	28.04902	100	Linear
25 Diisopropyl ether	0.83175	0.86475	0.86475	0.010	3.96778	100	Averaged
26 Chloroprene	0.36309	0.35542	0.35542	0.010	-2.11416	100	Averaged
27 1,1-Dichloroethane	0.47941	0.44497	0.44497	0.100	-7.18301	100	Averaged
28 Acrylonitrile	0.08679	0.09189	0.09189	0.000	5.86809	100	Averaged
29 Ethyl tert-butyl ether	0.70601	0.74074	0.74074	0.010	4.91905	100	Averaged
30 n-Propanol	500	548	61.62645	0.000	9.50311	100	Linear
31 Vinyl Acetate	50.00000	45.89839	20.76470	0.010	-8.20321	100	Linear
32 cis-1,2-Dichloroethene	0.36801	0.34556	0.34556	0.010	-6.09961	100	Averaged
33 2,2-Dichloropropane	50.00000	51.24636	3.33590	0.010	2.49272	100	Quadratic
34 Bromochloromethane	0.10238	0.09624	0.09624	0.010	-5.99988	100	Averaged
35 Cyclohexane	0.39544	0.37789	0.37789	0.010	-4.43899	100	Averaged
36 Chloroform	50.00000	49.76345	2.29085	0.010	-0.47310	20.00000	Quadratic
37 Ethyl Acetate	0.21063	0.23100	0.23100	0.010	9.67056	100	Averaged
38 Methyl acrylate	0.20428	0.21559	0.21559	0.010	5.53705	100	Averaged
39 Carbon Tetrachloride	0.25234	0.23253	0.23253	0.010	-7.85097	100	Averaged
40 Tetrahydrofuran	0.06674	0.07084	0.07084	0.000	6.14686	100	Averaged
$ 41 Dibromofluoromethane	0.19781	0.17867	0.17867	0.010	-9.67872	100	Averaged
42 1,1,1-Trichloroethane	0.33632	0.32891	0.32891	0.010	-2.20358	100	Averaged
43 2-Butanone	0.02845	0.02973	0.02973	0.000	4.50469	100	Averaged

Data File: 316102601Adod.D Page 6
Report Date: 27-Oct-2016 11:05

ALS Environmental Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ms03.i Injection Date: 26-OCT-2016 09:18
Lab File ID: 316102601Adod.D Init. Cal. Date(s): 24-OCT-2016 25-OCT-2016
Analysis Type: WATER Init. Cal. Times: 23:25 01:36
Lab Sample ID: 1800 Quant Type: ISTD
Method: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b09dod.

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
44 1,1-Dichloropropene	0.35553	0.33128	0.33128	0.010	-6.81918	100	Averaged
45 1-Chlorobutane	50.00000	52.72114	3.67875	0.010	5.44227	100	Linear
46 Heptane	0.16220	0.19547	0.19547	0.000	20.51220	100	Averaged
47 Benzene	1.09764	1.01891	1.01891	0.010	-7.17297	100	Averaged
48 Propionitrile	0.03248	0.03416	0.03416	0.000	5.17209	100	Averaged
49 Methacrylonitrile	0.09994	0.09843	0.09843	0.010	-1.51115	100	Averaged
50 tert-Amyl methyl ether	0.57049	0.57413	0.57413	0.010	0.63824	100	Averaged
$ 51 1,2-Dichloroethane-d4	50.00000	55.72324	3.81338	0.010	11.44649	100	Linear
52 1,2-Dichloroethane	0.32508	0.30797	0.30797	0.010	-5.26366	100	Averaged
53 tert-Amyl Alcohol	250	274	80.50269	0.002	9.76618	100	Quadratic
54 Isobutyl alcohol	500	719	117	0.000	43.85590	100	Quadratic
56 Diisobutylene	50.00000	60.46405	1.34376	0.010	20.92811	100	Linear
57 Trichloroethene	0.26128	0.23012	0.23012	0.010	-11.92866	100	Averaged
58 Methyl cyclohexane	0.99588	0.99791	0.99791	0.005	0.20325	100	Averaged
59 tert-Amyl Ethylether	0.50817	0.52341	0.52341	0.010	2.99947	100	Averaged
60 Dibromomethane	0.13336	0.12557	0.12557	0.010	-5.83968	100	Averaged
61 1,2-Dichloropropane	0.26975	0.26429	0.26429	0.010	-2.02143	20.00000	Averaged
62 Bromodichloromethane	0.27149	0.26657	0.26657	0.010	-1.80982	100	Averaged
63 Methyl methacrylate	0.18589	0.20516	0.20516	0.010	10.37026	100	Averaged
64 1,4-Dioxane	0.00090	0.00169	0.00169	0.000	89.26955	100	Averaged
65 2-Chloroethylvinyl ether	50.00000	45.63946	8.33930	0.010	-8.72108	100	Linear
66 cis-1,3-Dichloropropene	0.80956	0.82151	0.82151	0.010	1.47518	100	Averaged
67 Octane	50.00000	59.35088	3.46452	0.010	18.70177	100	Linear
$ 68 Toluene-d8	50.00000	48.17899	0.55800	0.010	-3.64203	100	Quadratic
69 Toluene	1.42912	1.31892	1.31892	0.010	-7.71112	20.00000	Averaged
70 Chloroacetonitrile	250	280	68.47021	0.000	12.00581	100	Quadratic
71 2-Nitropropane	250	244	9.63856	0.005	-2.26567	100	Quadratic
72 1,1-Dichloro-2-Propanone	250	248	102	0.001	-0.76199	100	Quadratic
73 4-Methyl-2-Pentanone(MIBK)	0.49268	0.53941	0.53941	0.010	9.48437	100	Averaged
74 Tetrachloroethene	50.00000	49.90717	2.87696	0.010	-0.18567	100	Quadratic
75 trans-1,3-Dichloropropene	0.70345	0.73452	0.73452	0.010	4.41647	100	Averaged
76 Ethyl Methacrylate	0.64469	0.70115	0.70115	0.010	8.75796	100	Averaged
77 1,1,2-Trichloroethane	0.41545	0.38493	0.38493	0.010	-7.34649	100	Averaged
78 Chlorodibromomethane	0.37363	0.36084	0.36084	0.010	-3.42325	100	Averaged
79 1,3-Dichloropropane	0.89660	0.83136	0.83136	0.010	-7.27577	100	Averaged
80 1,2-Dibromoethane	0.41324	0.38521	0.38521	0.010	-6.78373	100	Averaged
81 2-Hexanone	0.31207	0.35258	0.35258	0.010	12.98217	100	Averaged
82 1-Chlorohexane	0.72886	0.73156	0.73156	0.010	0.36941	100	Averaged
84 Chlorobenzene	1.49934	1.29056	1.29056	0.300	-13.92482	100	Averaged
85 Ethylbenzene	0.81895	0.72740	0.72740	0.010	-11.17873	20.00000	Averaged
86 1,1,1,2-Tetrachloroethane	0.39368	0.37023	0.37023	0.010	-5.95855	100	Averaged
87 mp-Xylene	0.95563	0.87868	0.87868	0.010	-8.05249	100	Averaged

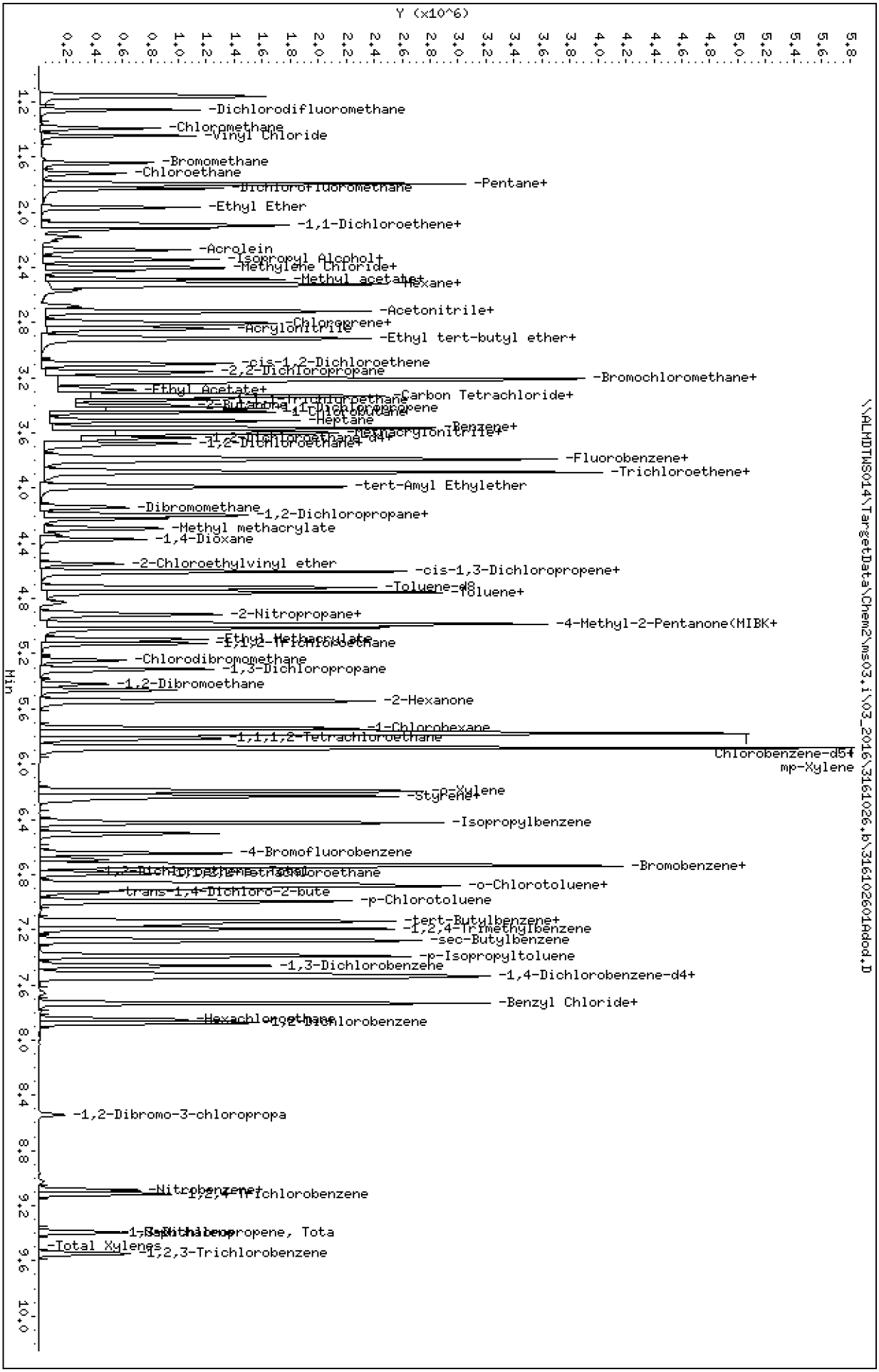
Data File: 316102601Adod.D Page 7
Report Date: 27-Oct-2016 11:05

ALS Environmental Services

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: ms03.i Injection Date: 26-OCT-2016 09:18
Lab File ID: 316102601Adod.D Init. Cal. Date(s): 24-OCT-2016 25-OCT-2016
Analysis Type: WATER Init. Cal. Times: 23:25 01:36
Lab Sample ID: 1800 Quant Type: ISTD
Method: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b09dod.

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
88 o-Xylene	0.84846	0.81675	0.81675	0.010	-3.73751	100	Averaged
89 Styrene	2.22497	2.21482	2.21482	0.010	-0.45633	100	Averaged
90 Bromoform	50.00000	42.27660	4.12760	0.100	-15.44680	100	Quadratic
91 Isopropylbenzene	3.63561	3.56898	3.56898	0.010	-1.83264	100	Averaged
$ 92 4-Bromofluorobenzene	50.00000	49.05155	1.64167	0.010	-1.89690	100	Linear
93 Bromobenzene	0.76216	0.68052	0.68052	0.010	-10.71133	100	Averaged
94 n-Propylbenzene	0.91933	0.91834	0.91834	0.010	-0.10786	100	Averaged
95 1,1,2,2-Tetrachloroethane	0.88166	0.82922	0.82922	0.300	-5.94729	100	Averaged
96 o-Chlorotoluene	2.85473	2.76057	2.76057	0.010	-3.29810	100	Averaged
97 1,3,5-Trimethylbenzene	2.66203	2.74772	2.74772	0.010	3.21913	100	Averaged
98 1,2,3-Trichloropropane	0.26205	0.24053	0.24053	0.010	-8.21212	100	Averaged
99 trans-1,4-Dichloro-2-butene	0.21054	0.21059	0.21059	0.010	0.02440	100	Averaged
M 100 1,2-Dichloroethene, Total	0.36812	0.34484	0.34484	0.010	-6.32342	100	Averaged
101 p-Chlorotoluene	2.60074	2.51519	2.51519	0.010	-3.28932	100	Averaged
102 tert-Butylbenzene	0.60281	0.60394	0.60394	0.010	0.18807	100	Averaged
103 Pentachloroethane	0.50184	0.47754	0.47754	0.010	-4.84105	100	Averaged
104 1,2,4-Trimethylbenzene	2.60282	2.70963	2.70963	0.010	4.10341	100	Averaged
105 sec-Butylbenzene	3.32864	3.53407	3.53407	0.010	6.17141	100	Averaged
106 p-Isopropyltoluene	0.63420	0.68278	0.68278	0.010	7.65983	100	Averaged
107 1,3-Dichlorobenzene	50.00000	49.40252	0.81222	0.010	-1.19495	100	Quadratic
109 1,4-Dichlorobenzene	50.00000	49.71950	0.79935	0.010	-0.56099	100	Quadratic
110 Benzyl Chloride	50.00000	47.42071	6.16446	0.010	-5.15857	100	Quadratic
111 n-Butylbenzene	0.55848	0.59470	0.59470	0.010	6.48529	100	Averaged
112 Hexachloroethane	0.38753	0.36791	0.36791	0.010	-5.06519	100	Averaged
113 1,2-Dichlorobenzene	50.00000	49.54959	0.89997	0.010	-0.90083	100	Quadratic
114 1,2-Dibromo-3-chloropropane	50.00000	47.56387	11.17785	0.010	-4.87227	100	Quadratic
115 Nitrobenzene	500	356	301	0.000	-28.81128	100	Linear
116 Hexachlorobutadiene	50.00000	55.71033	4.29974	0.000	11.42067	100	Quadratic
117 1,2,4-Trichlorobenzene	50.00000	51.12369	2.03271	0.010	2.24738	100	Quadratic
118 Naphthalene	50.00000	48.78994	1.14204	0.010	-2.42012	100	Quadratic
119 1,2,3-Trichlorobenzene	0.31153	0.33275	0.33275	0.010	6.81193	100	Averaged
M 120 1,3-Dichloropropene, Total	0.75651	0.77801	0.77801	0.010	2.84268	100	Averaged
M 121 Total Xylenes	0.91991	0.85804	0.85804	0.010	-6.72588	100	Averaged


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Acrolein
-Isopropyl Alcohol+
-Methylene Chloride+
-Methyl acetate+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Acrylonitrile
-Ethyl tert-butyl ether+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Carbon Tetrachloride+
-Heptane
-Benzene+
-Methacrylonitrile+
-1,2-Dichloroethane+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,2-Dichloropropane+
-Methyl methacrylate
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK+
-Chlorodibromomethane
-1,3-Dichloropropane
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-o-Xylene
-Styrene+
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-o-Chlorotoluene+
-trans-1,4-Dichloro-2-bute
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-Benzyl Chloride+
-1,2-Dichlorobenzene
-1,2-Dibromo-3-chloropropa
-Nitrobenzene+
1,2,4-Trichlorobenzene
-Total Xylenes
1,2,3-Trichlorobenzene
Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3161026l.Adod.D
Date : 26-OCT-2016 09:18
Client ID:
Sample Info: 1800;1;2;4;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: DD
Column diameter: 0.25
\\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3161026l.Adod.D
Page 8

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 9

Date : 26-OCT-2016 09:18

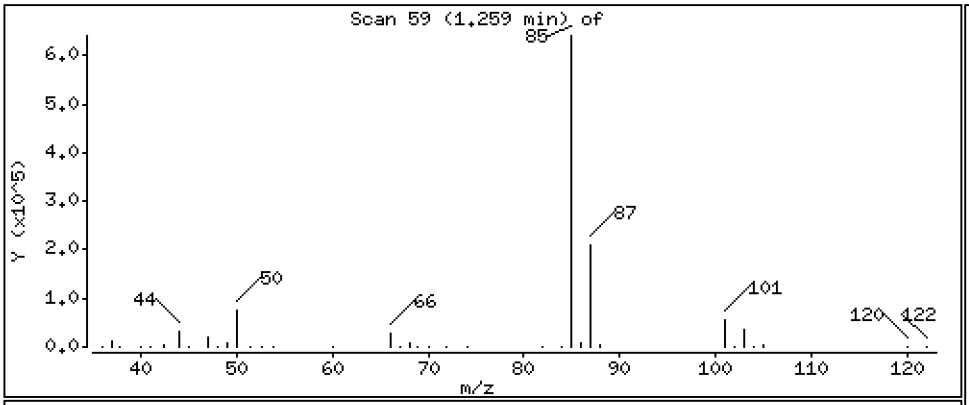
Client ID: Instrument: ms03.i

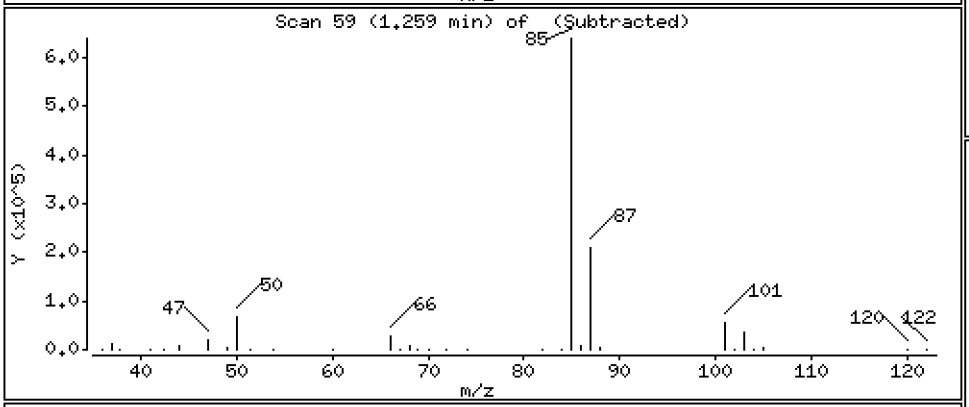
Sample Info: 1800;;1;2;4;;;

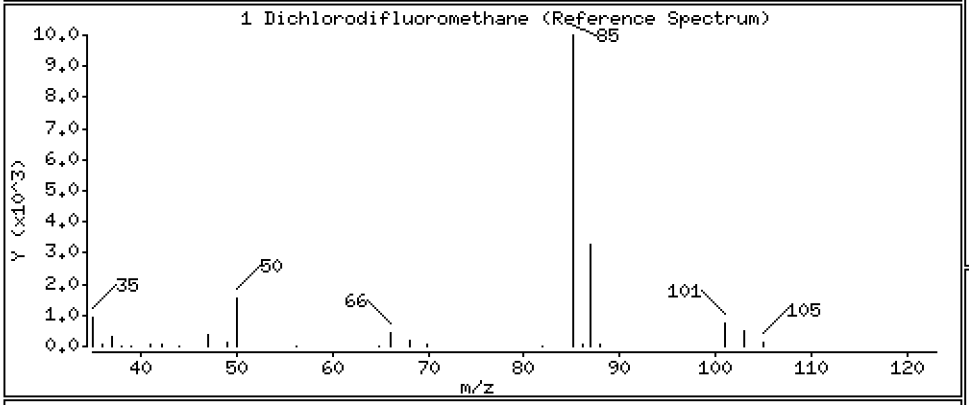
Purge Volume: 5.0 Operator: DD

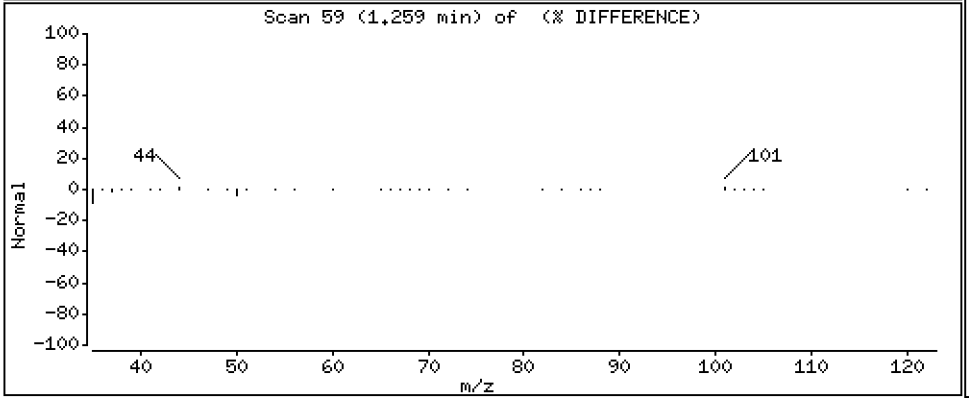
Column phase: DB-VRX Column diameter: 0.25

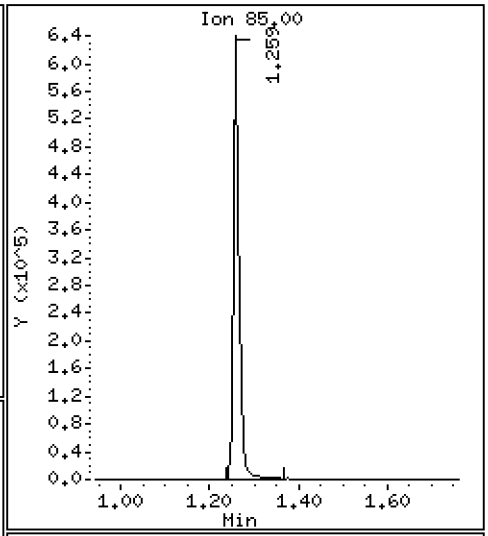
1 Dichlorodifluoromethane Concentration: 49.0722 ug/L

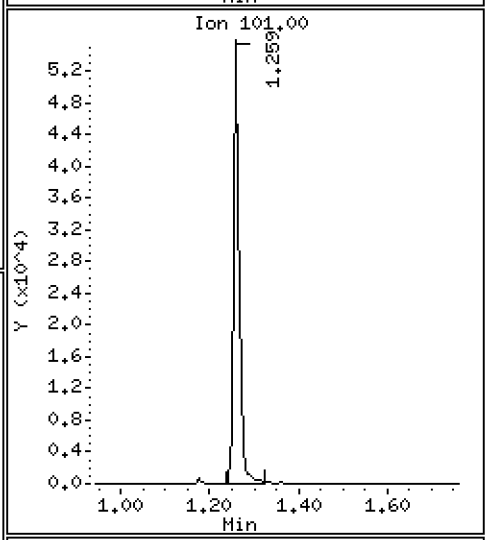


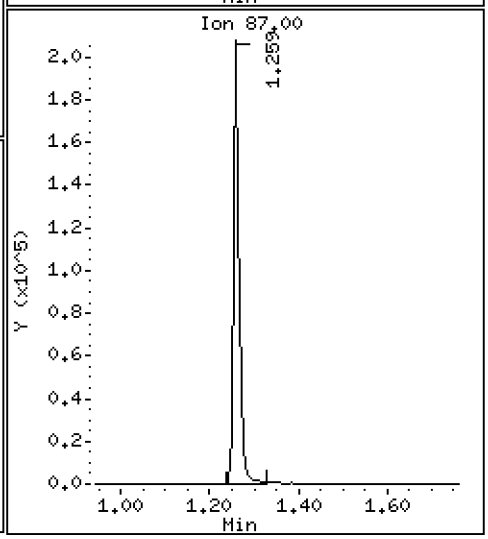












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 10

Date : 26-OCT-2016 09:18

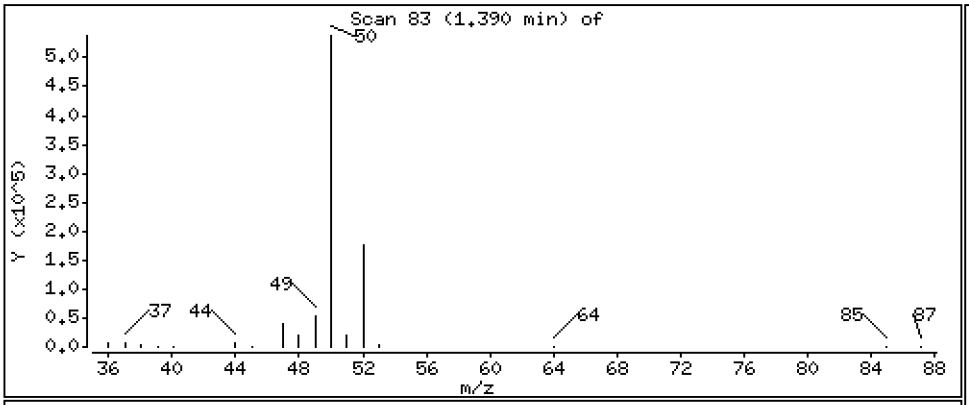
Client ID: Instrument: ms03.i

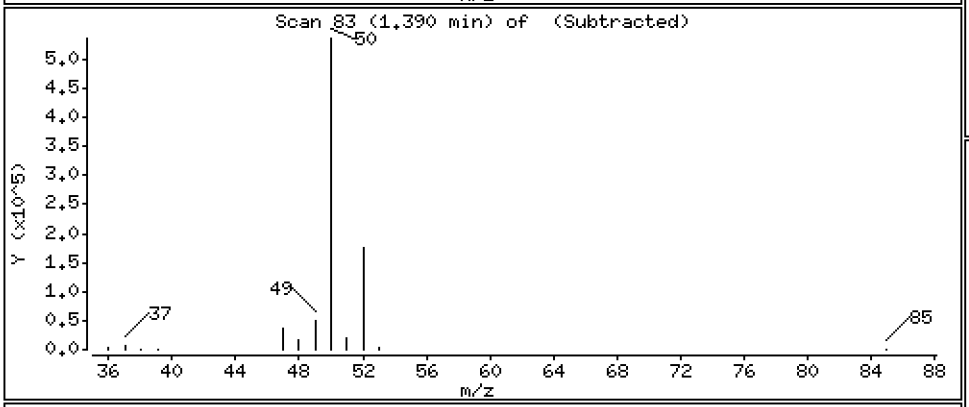
Sample Info: 1800;;1;2;4;;;

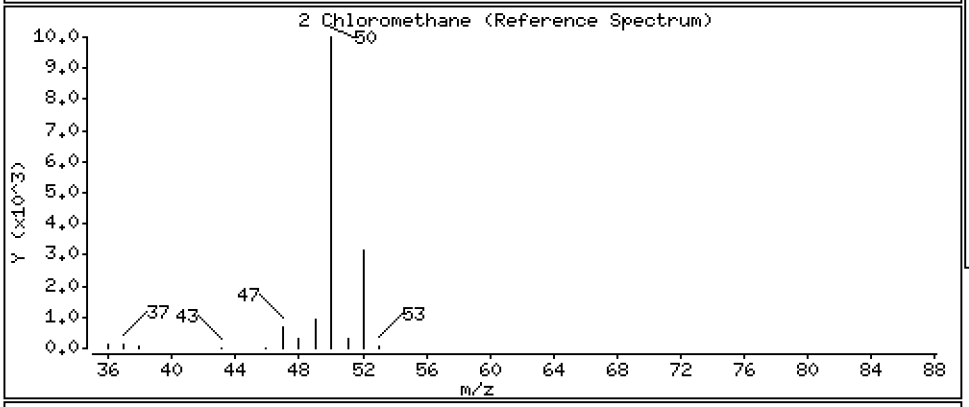
Purge Volume: 5.0 Operator: DD

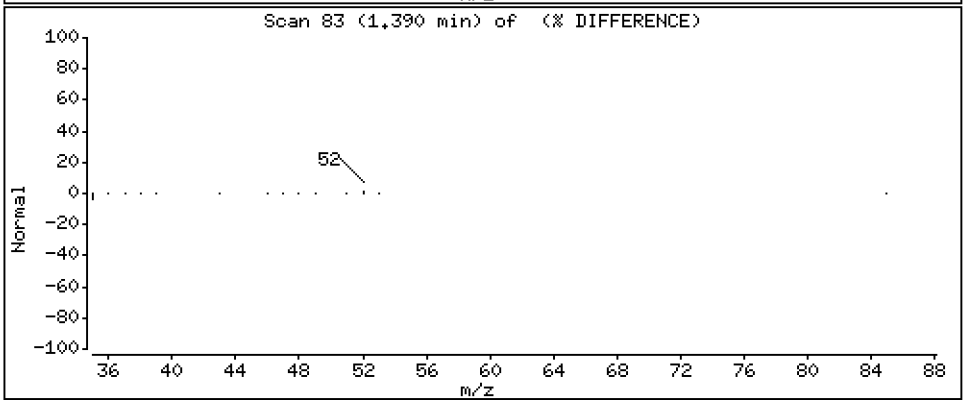
Column phase: DB-VRX Column diameter: 0.25

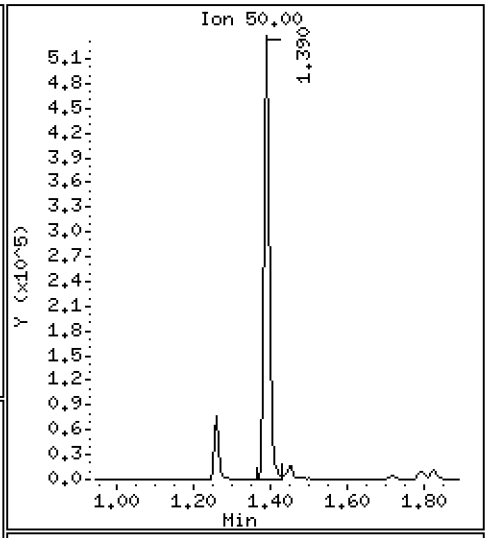
2 Chloromethane Concentration: 53.1244 ug/L

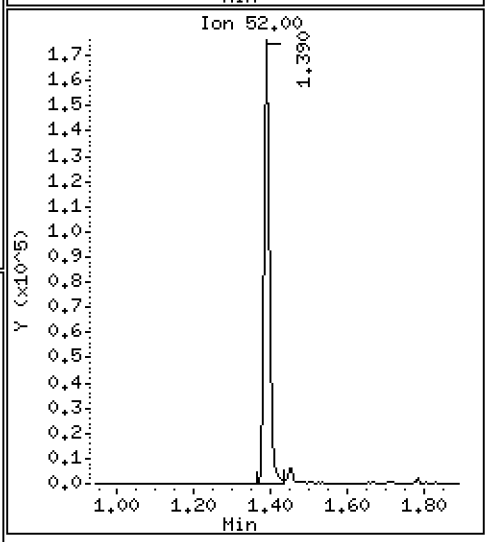












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 11

Date : 26-OCT-2016 09:18

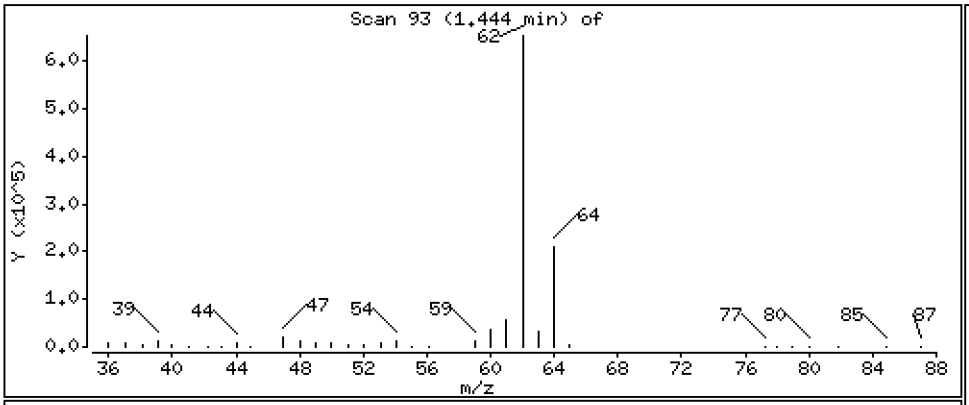
Client ID: Instrument: ms03.i

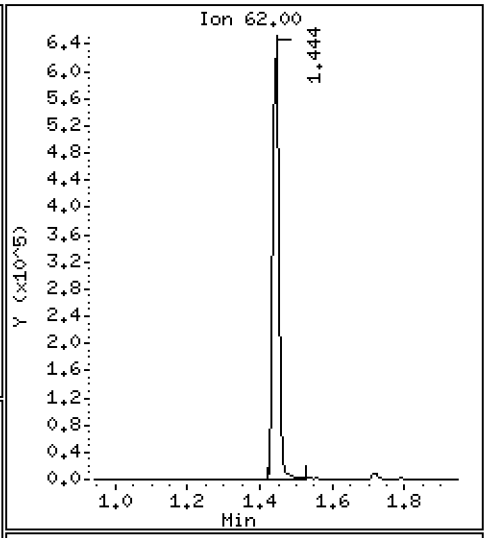
Sample Info: 1800;;1;2;4;;;

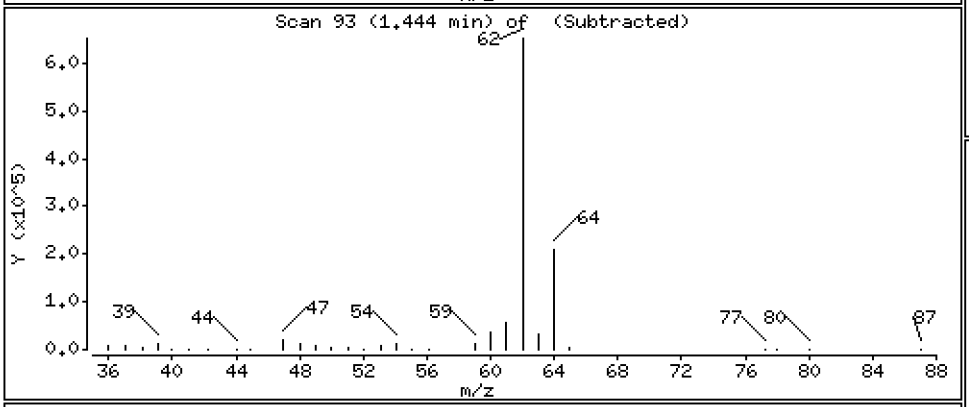
Purge Volume: 5.0 Operator: DD

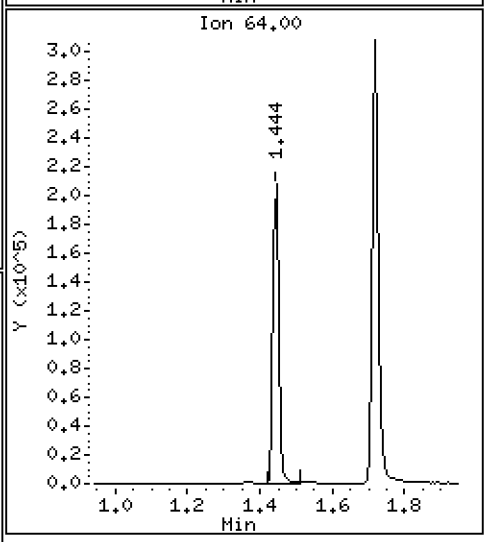
Column phase: DB-VRX Column diameter: 0.25

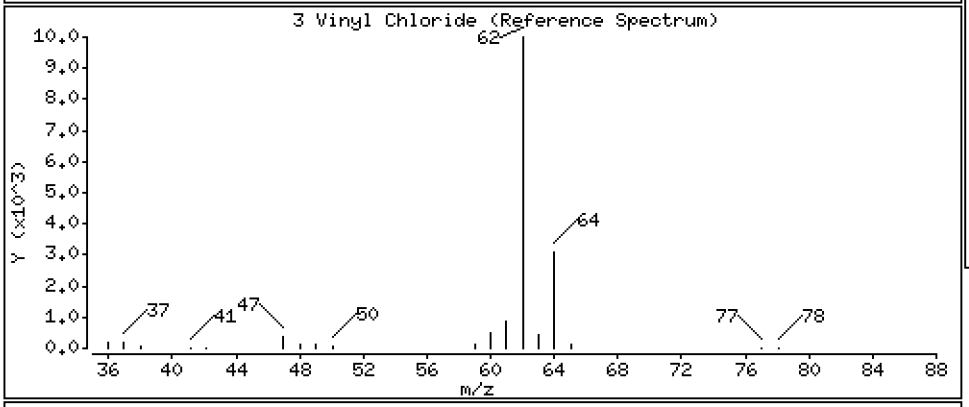
3 Vinyl Chloride Concentration: 50.3924 ug/L

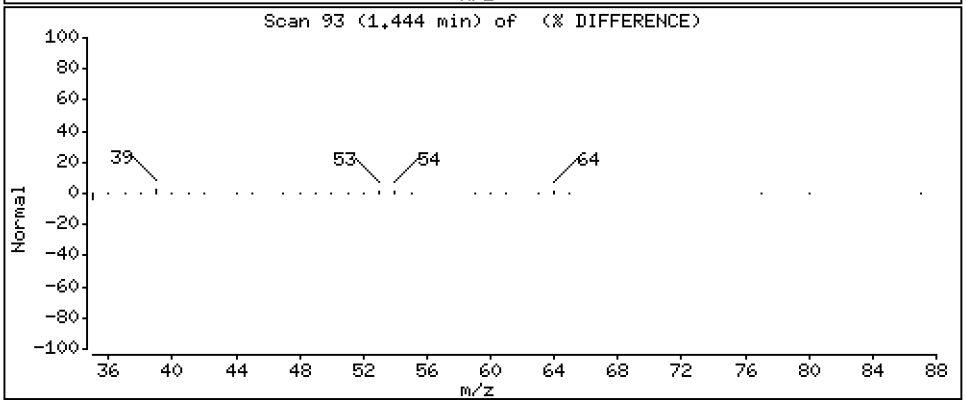












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 12

Date : 26-OCT-2016 09:18

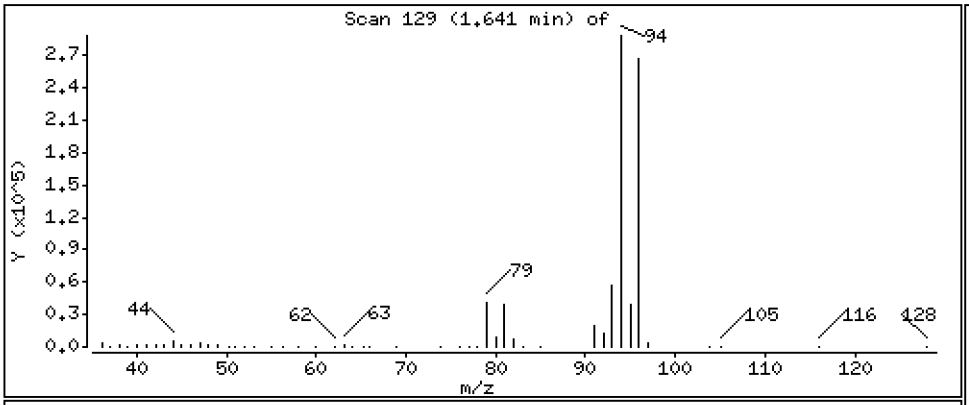
Client ID: Instrument: ms03.i

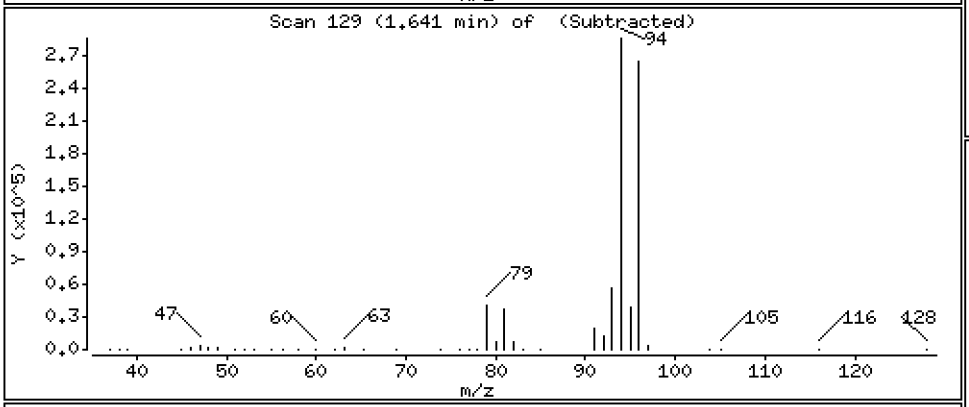
Sample Info: 1800;;1;2;4;;;

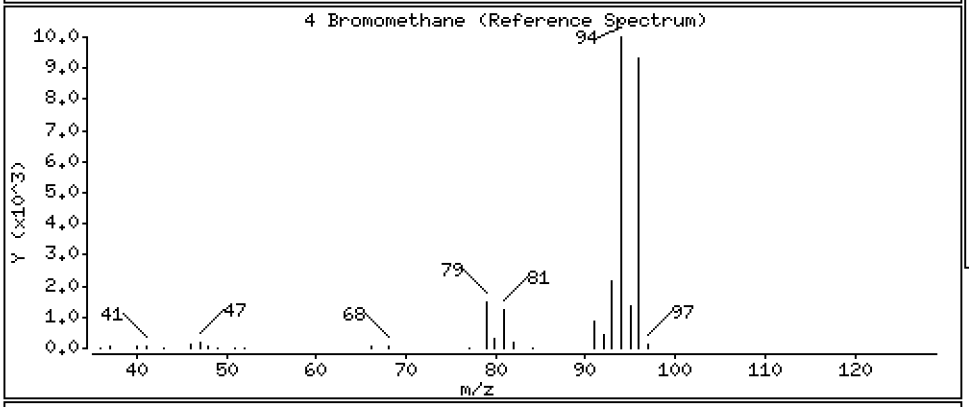
Purge Volume: 5.0 Operator: DD

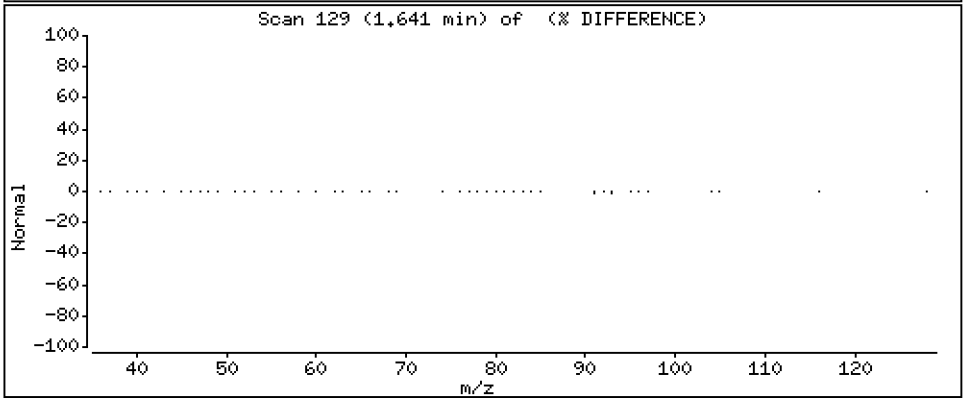
Column phase: DB-VRX Column diameter: 0.25

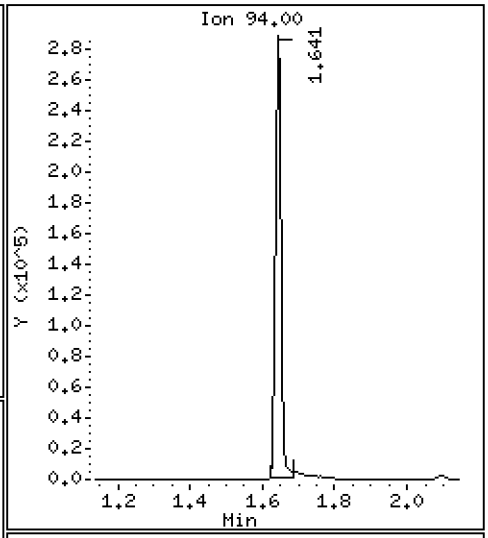
4 Bromomethane Concentration: 53.2334 ug/L

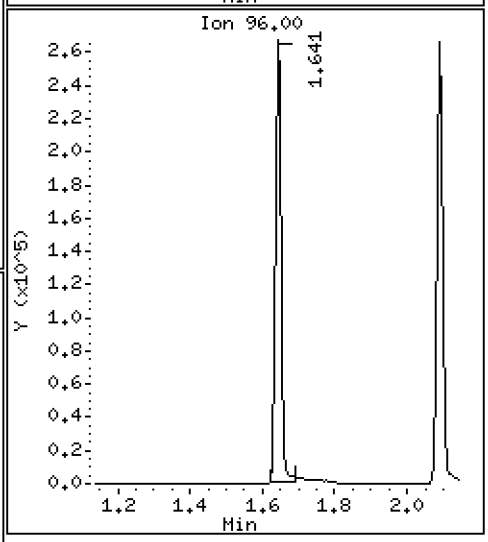












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 13

Date : 26-OCT-2016 09:18

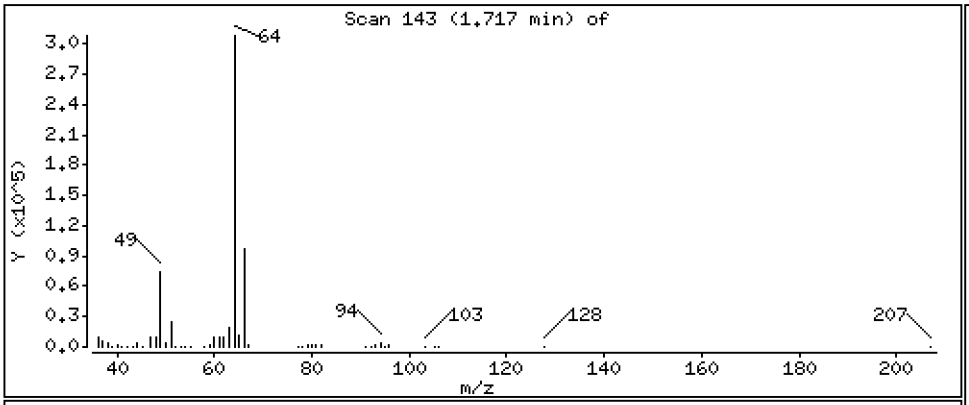
Client ID: Instrument: ms03.i

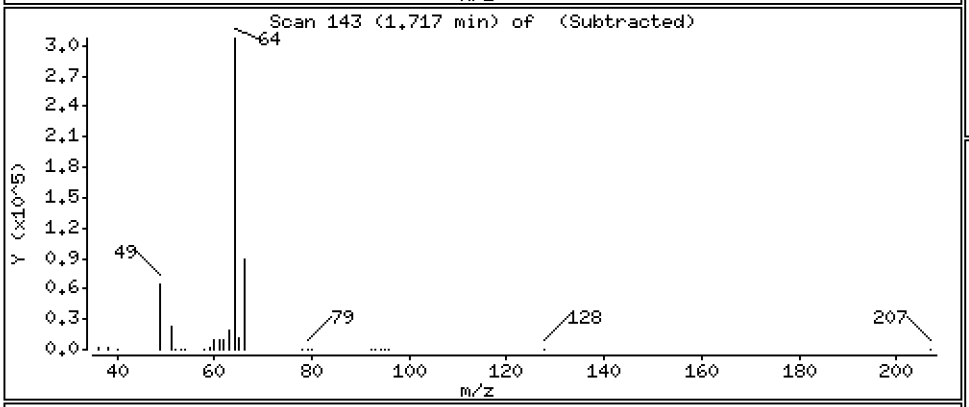
Sample Info: 1800;;1;2;4;;;

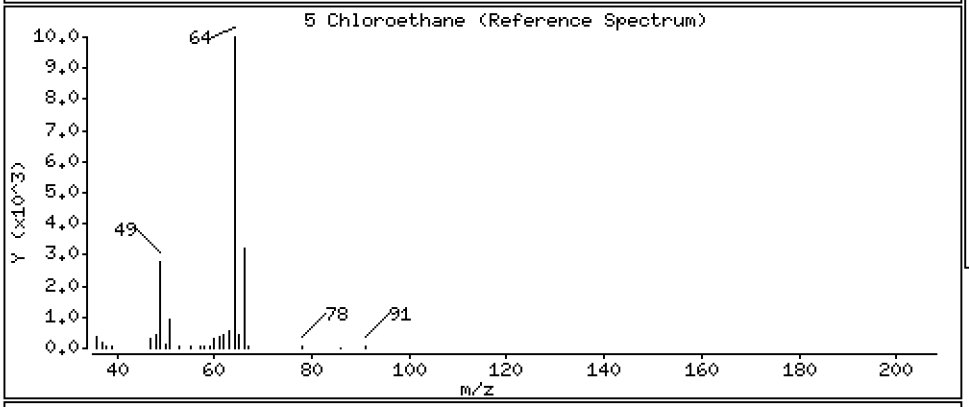
Purge Volume: 5.0 Operator: DD

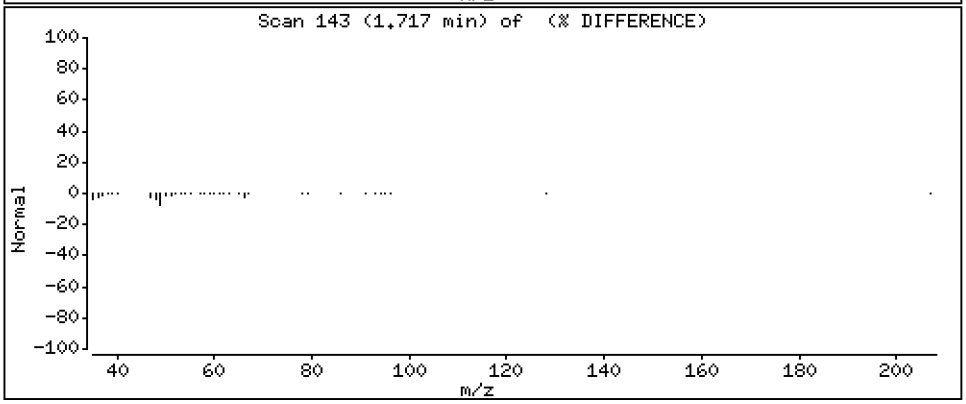
Column phase: DB-VRX Column diameter: 0.25

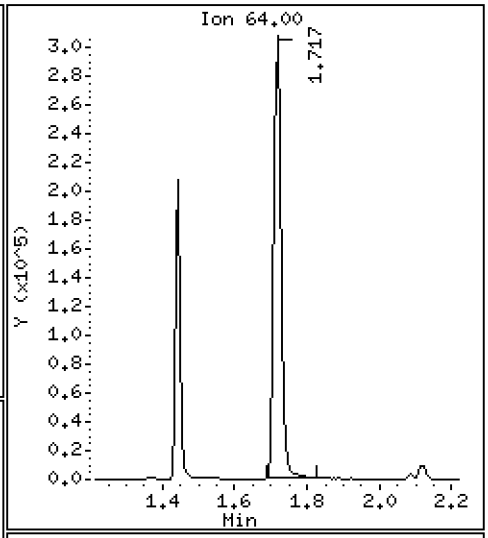
5 Chloroethane Concentration: 50.3422 ug/L

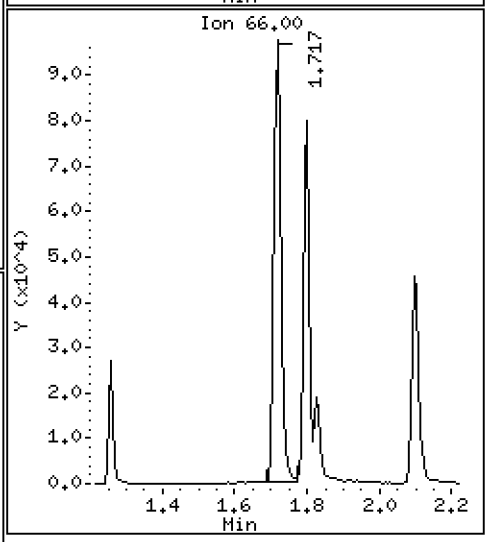












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 14

Date : 26-OCT-2016 09:18

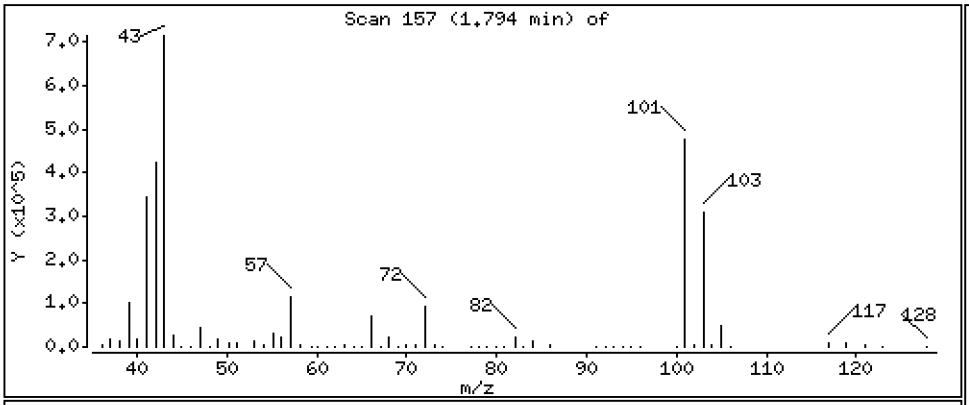
Client ID: Instrument: ms03.i

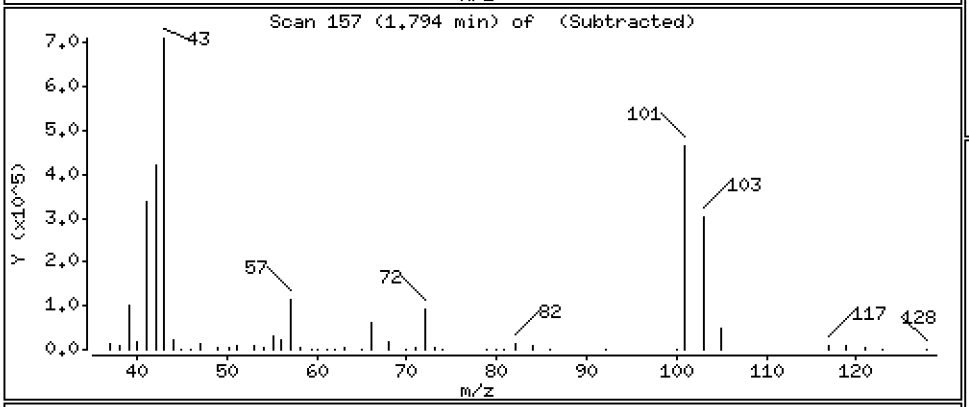
Sample Info: 1800;;1;2;4;;;

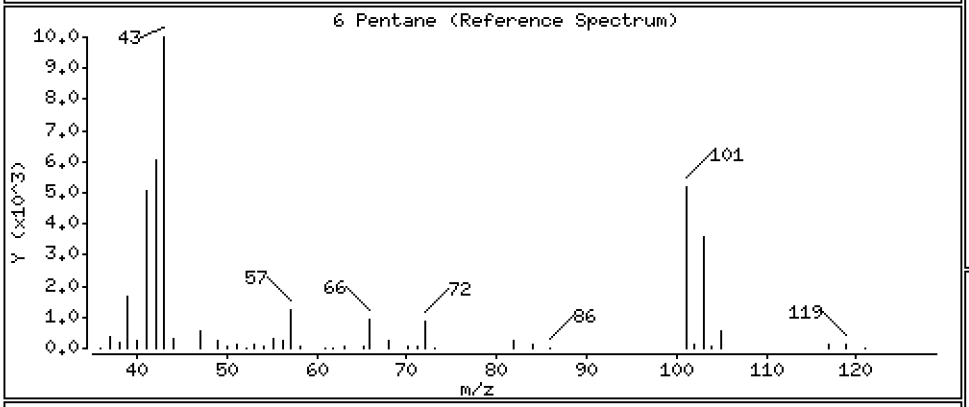
Purge Volume: 5.0 Operator: DD

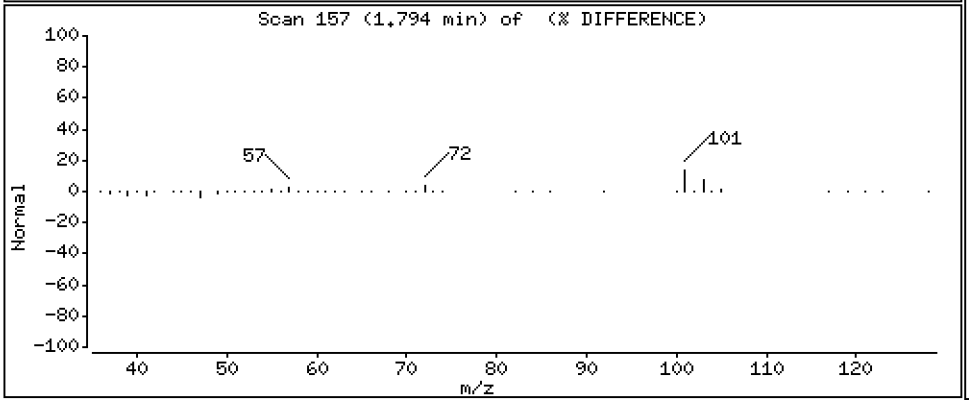
Column phase: DB-VRX Column diameter: 0.25

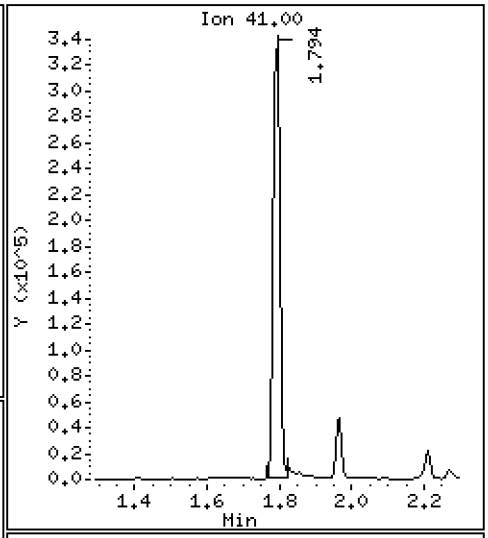
6 Pentane Concentration: 56.5935 ug/L

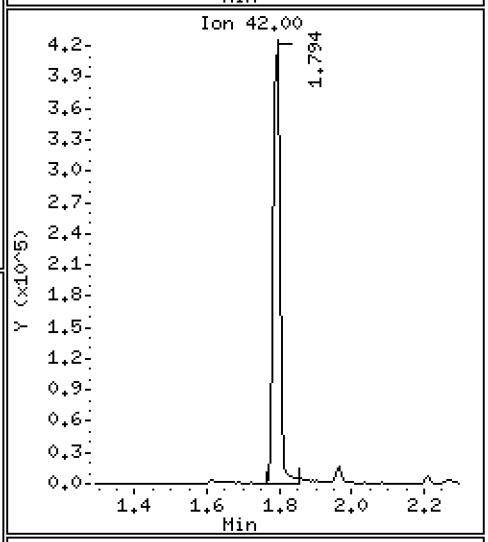


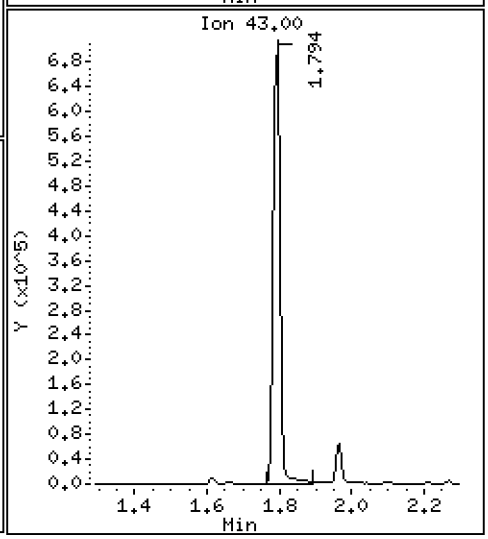












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 15

Date : 26-OCT-2016 09:18

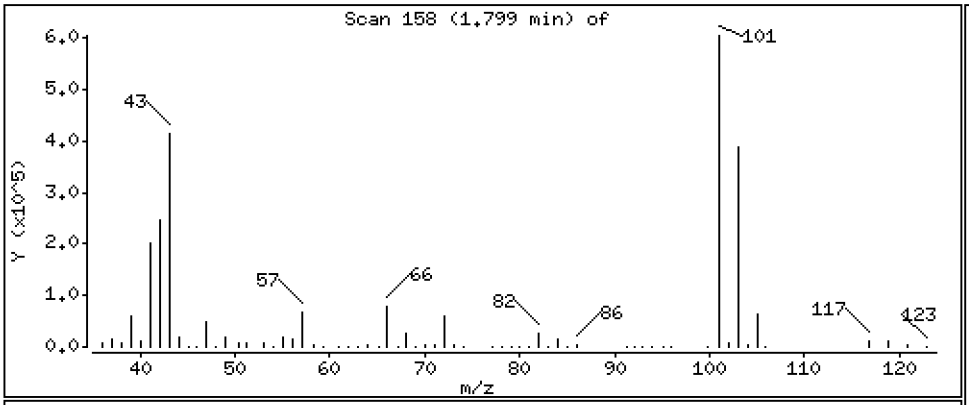
Client ID: Instrument: ms03.i

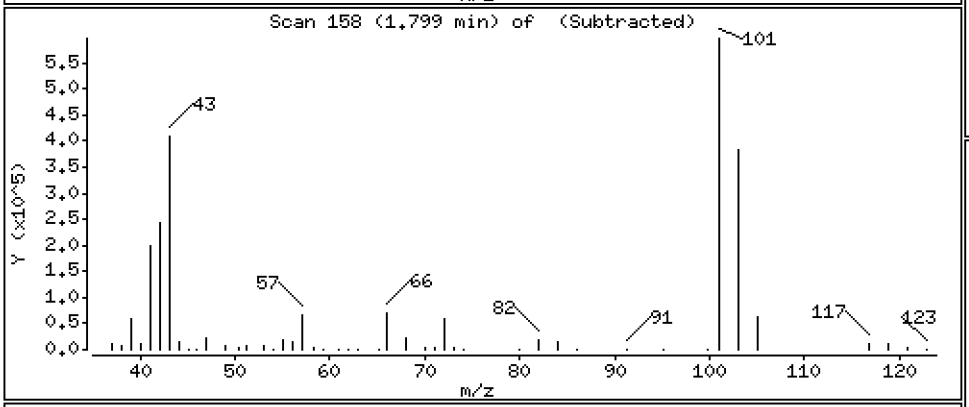
Sample Info: 1800;;1;2;4;;;

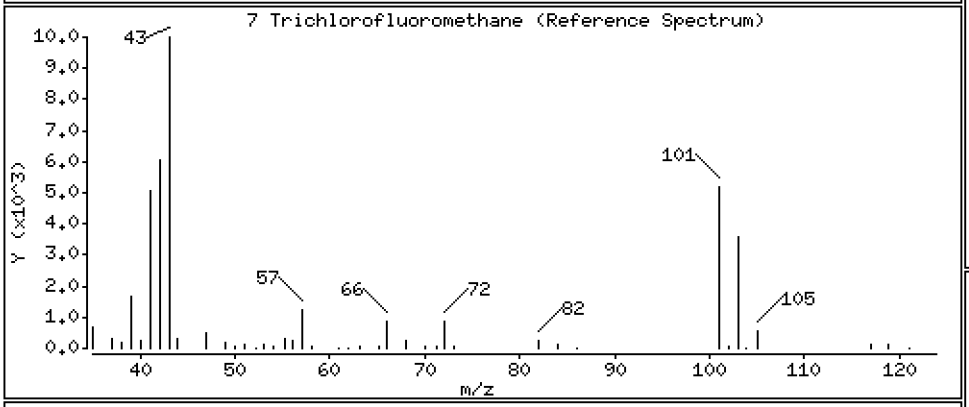
Purge Volume: 5.0 Operator: DD

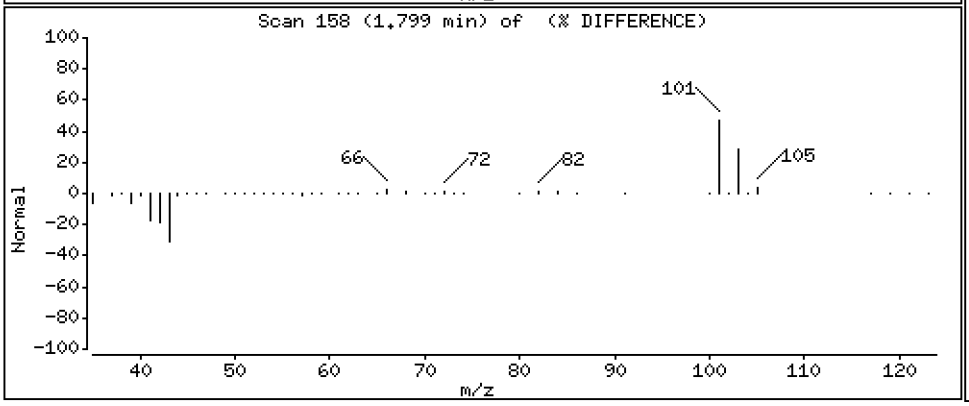
Column phase: DB-VRX Column diameter: 0.25

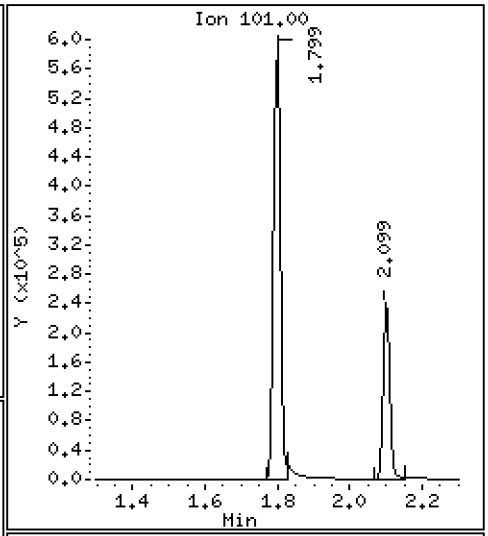
7 Trichlorofluoromethane Concentration: 48.6965 ug/L

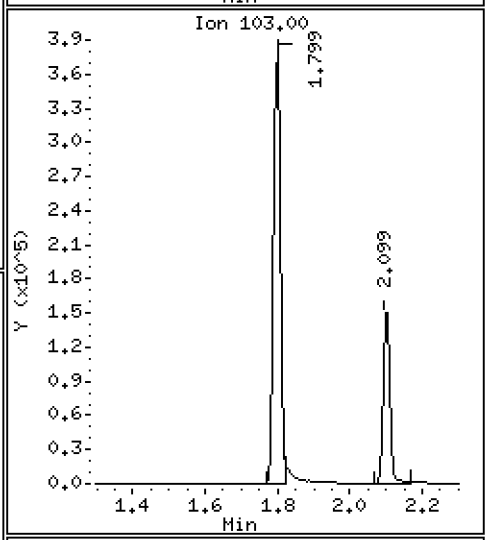


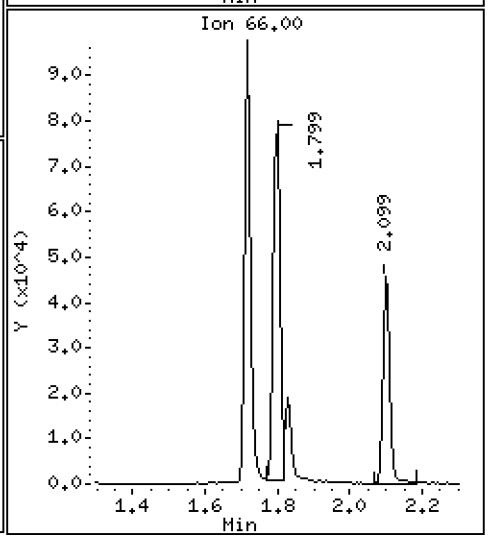












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 16

Date : 26-OCT-2016 09:18

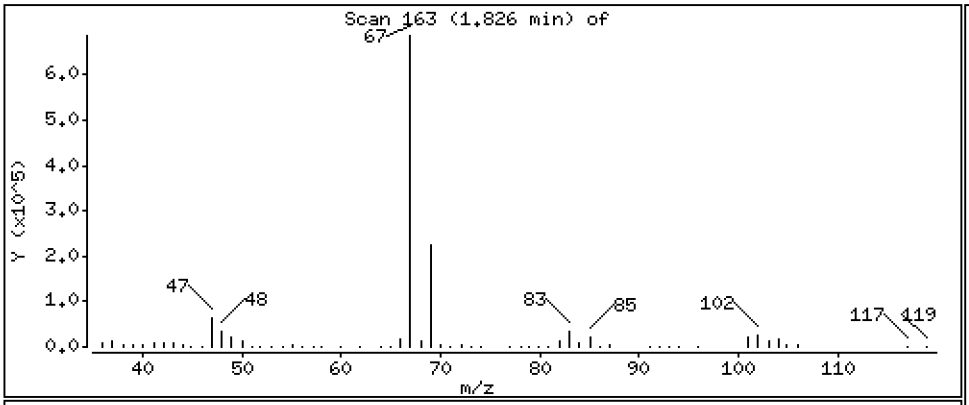
Client ID: Instrument: ms03.i

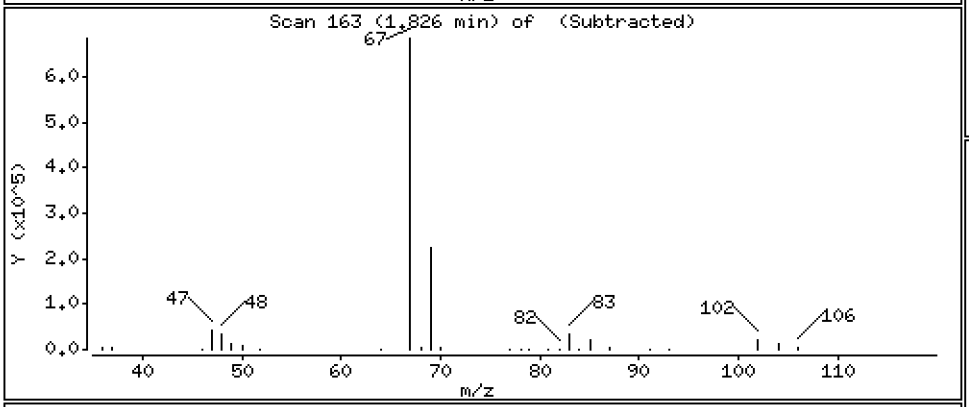
Sample Info: 1800;;1;2;4;;;

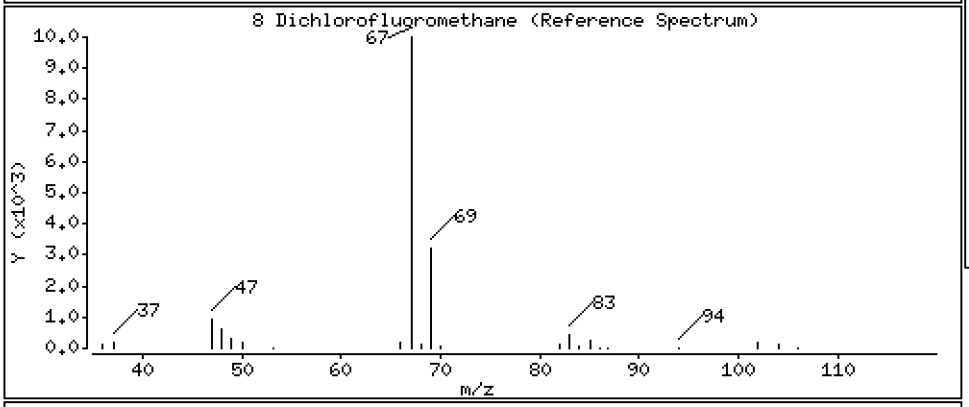
Purge Volume: 5.0 Operator: DD

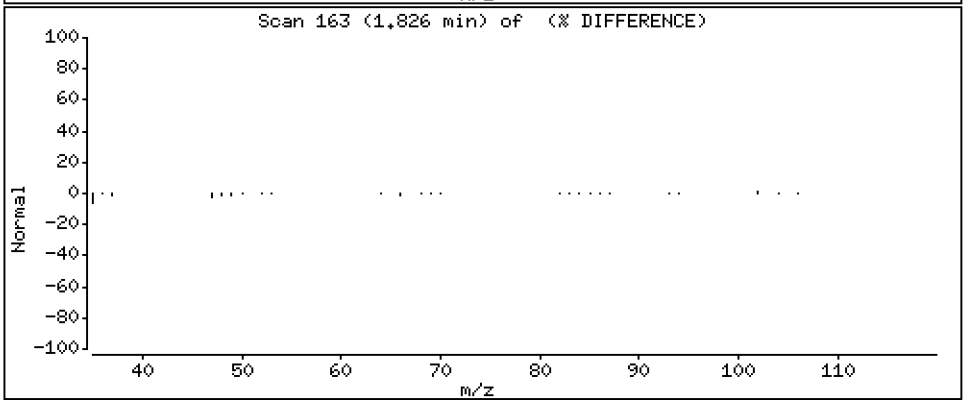
Column phase: DB-VRX Column diameter: 0.25

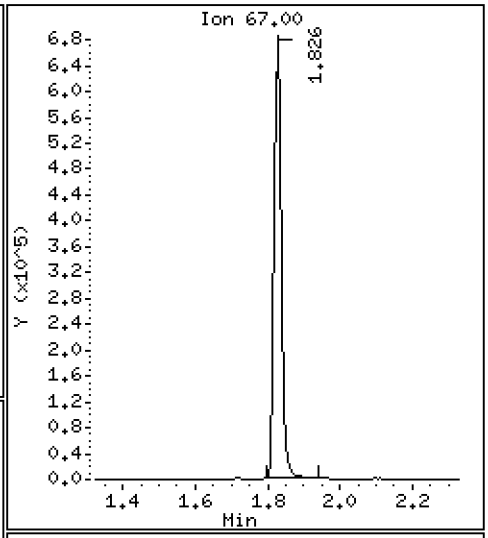
8 Dichlorofluoromethane Concentration: 44.9117 ug/L

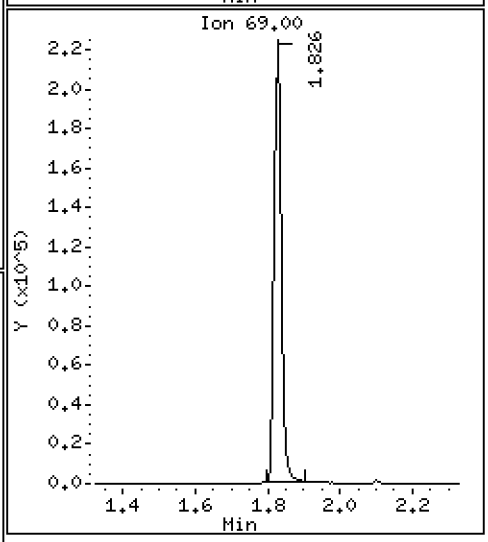












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 17

Date : 26-OCT-2016 09:18

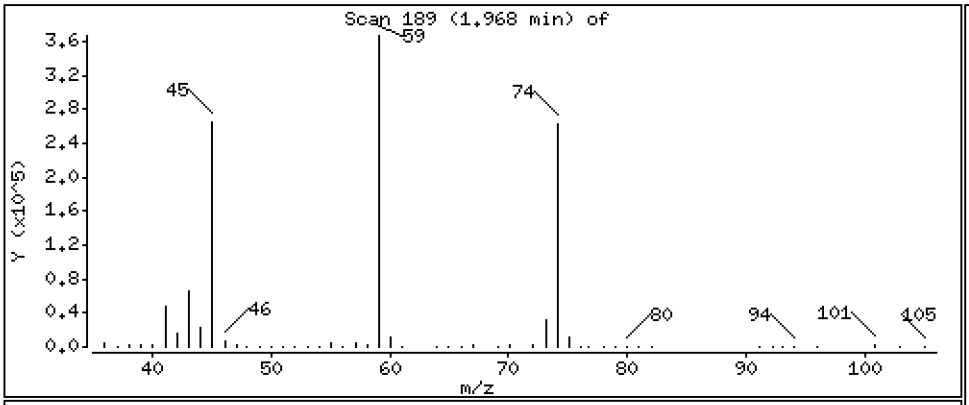
Client ID: Instrument: ms03.i

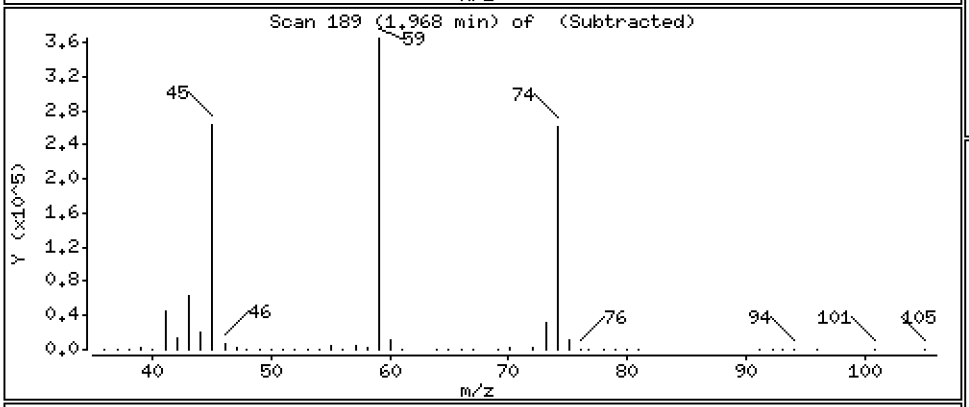
Sample Info: 1800;;1;2;4;;;

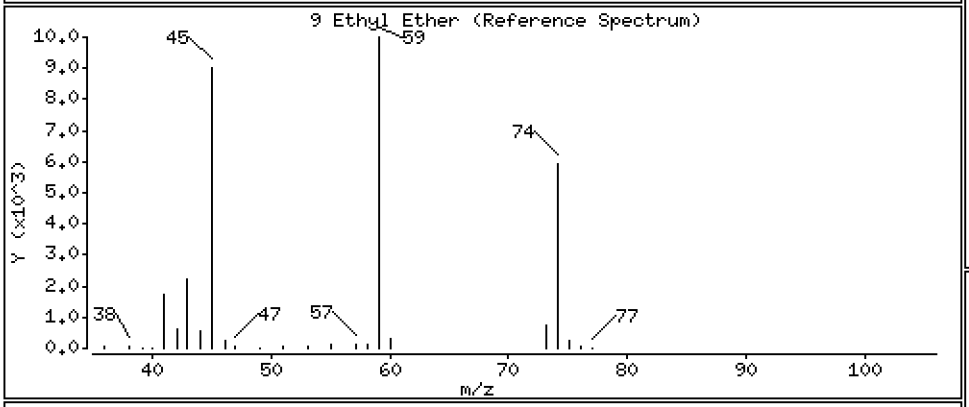
Purge Volume: 5.0 Operator: DD

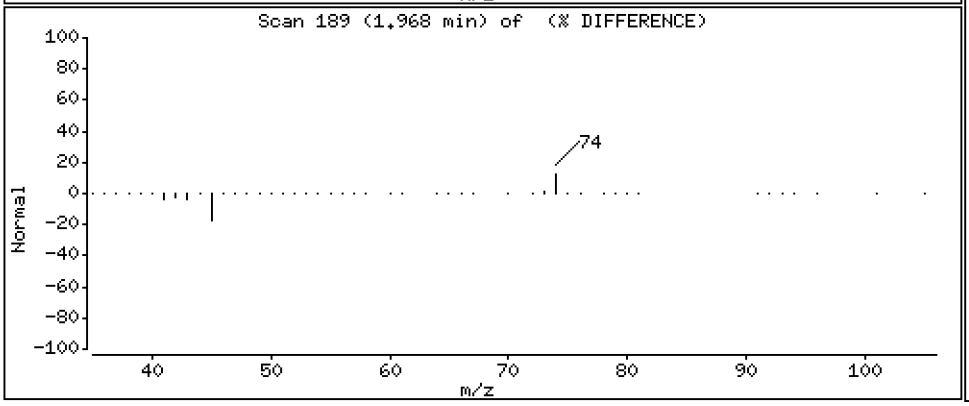
Column phase: DB-VRX Column diameter: 0.25

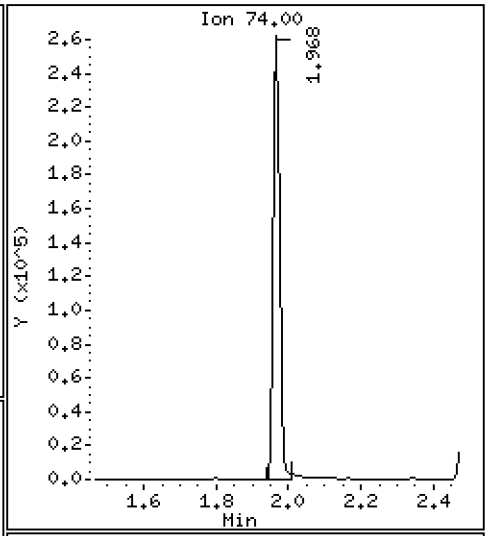
9 Ethyl Ether Concentration: 45.6144 ug/L

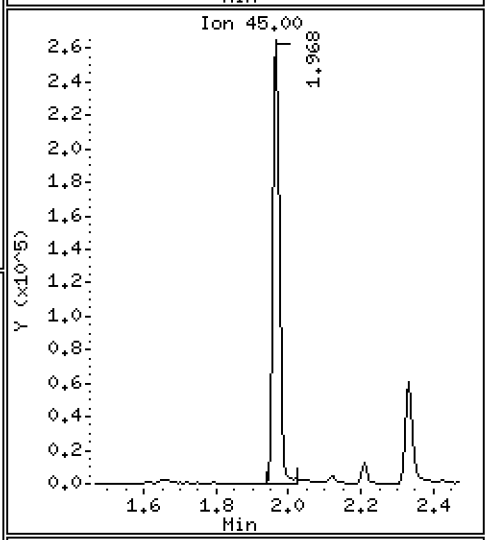


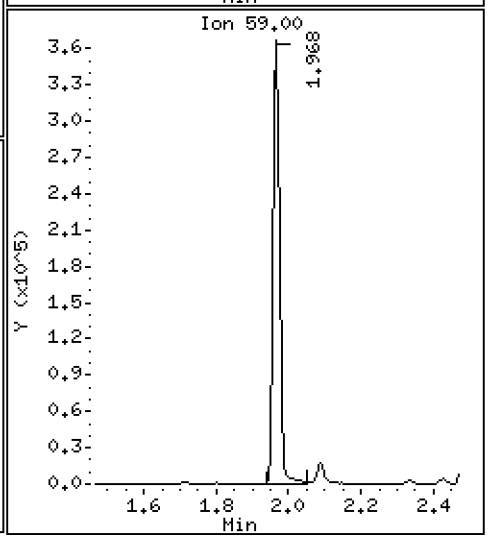












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 18

Date : 26-OCT-2016 09:18

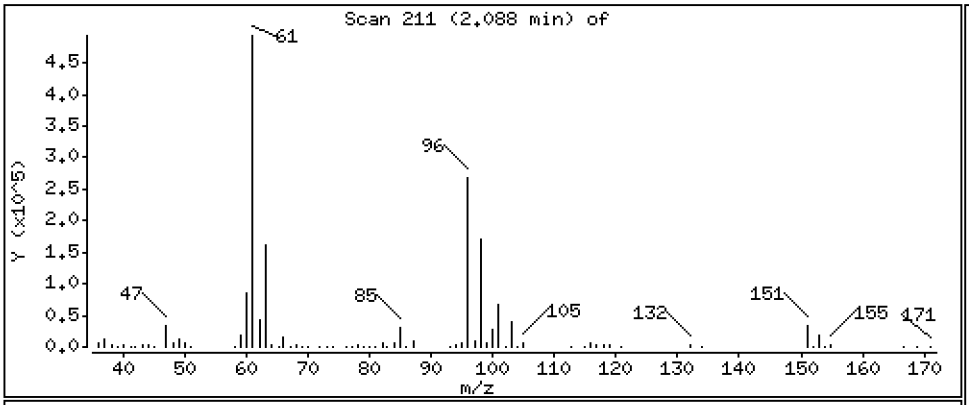
Client ID: Instrument: ms03.i

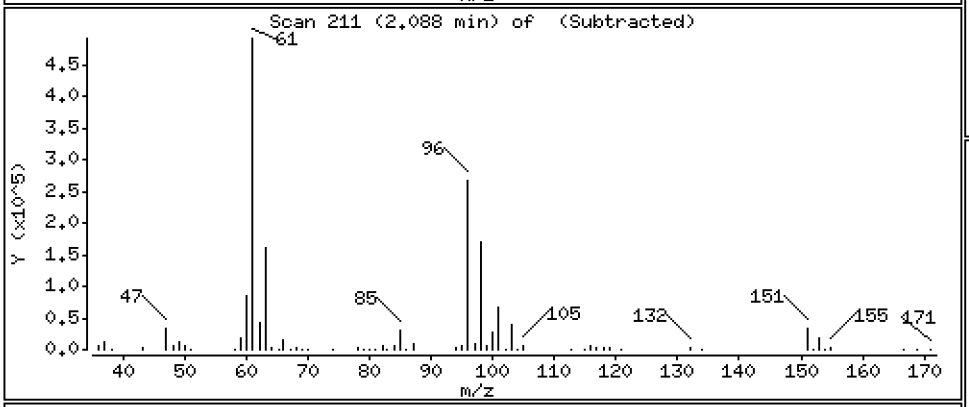
Sample Info: 1800;;1;2;4;;;

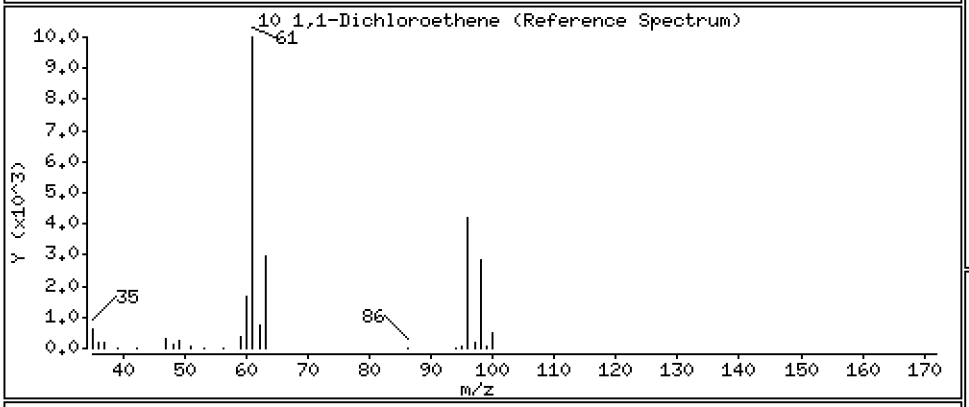
Purge Volume: 5.0 Operator: DD

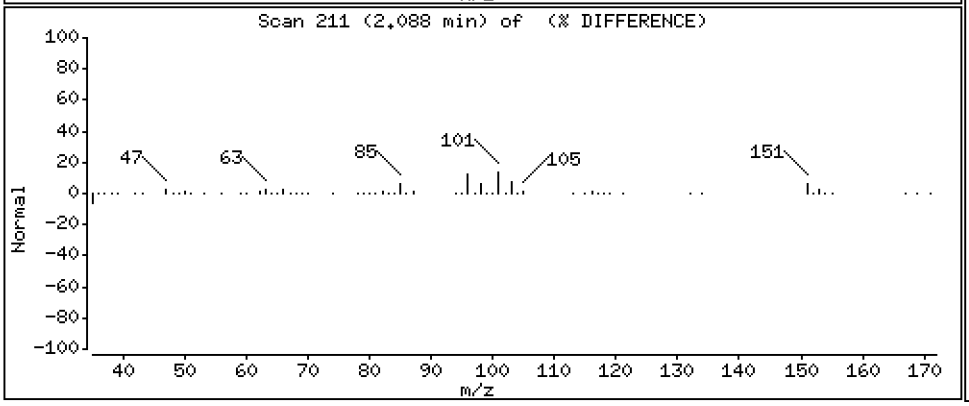
Column phase: DB-VRX Column diameter: 0.25

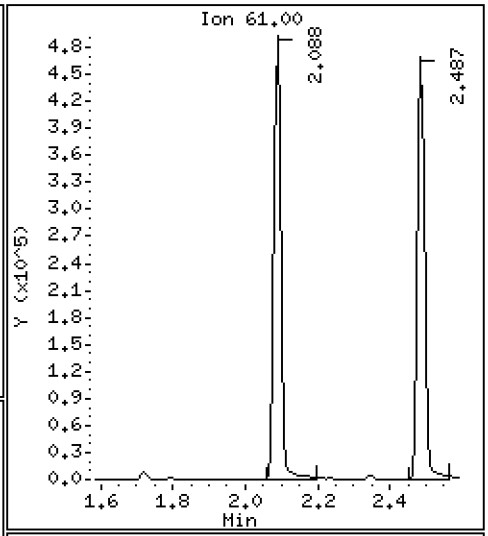
10 1,1-Dichloroethene Concentration: 45.5994 ug/L

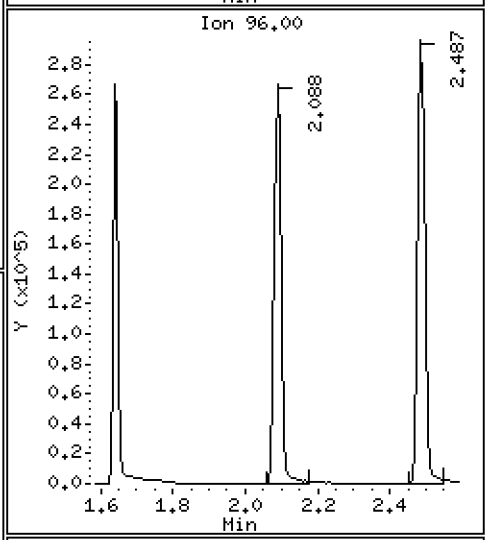


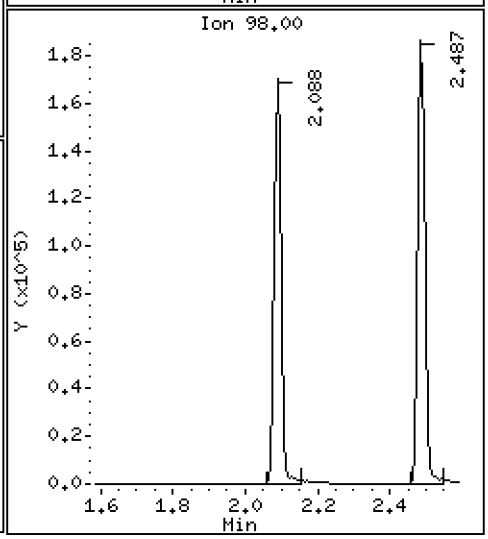












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 19

Date : 26-OCT-2016 09:18

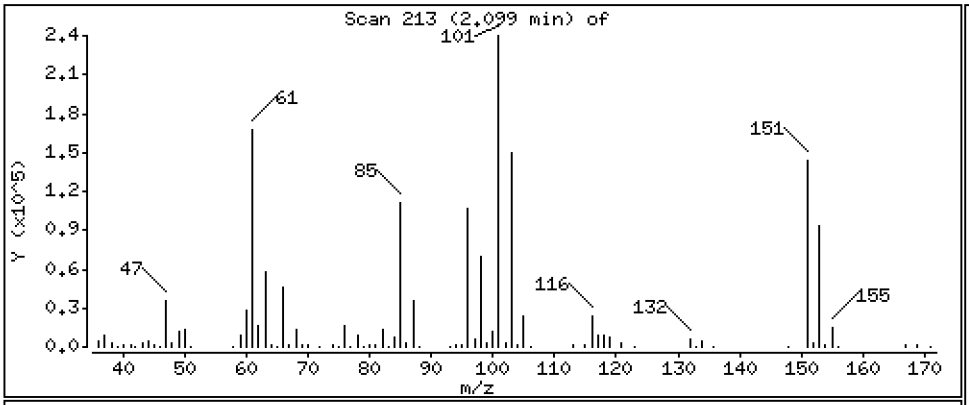
Client ID: Instrument: ms03.i

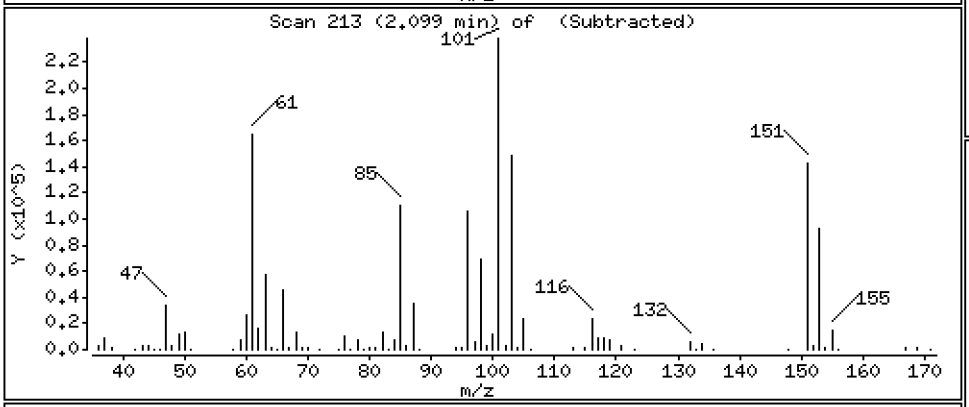
Sample Info: 1800;;1;2;4;;;

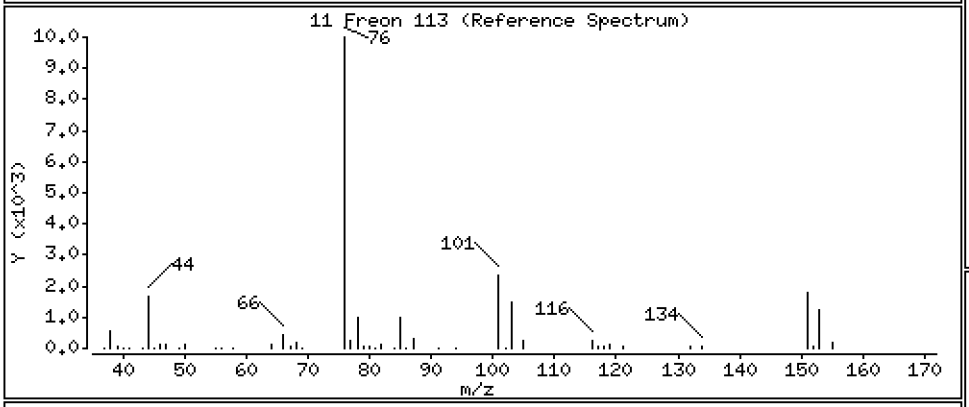
Purge Volume: 5.0 Operator: DD

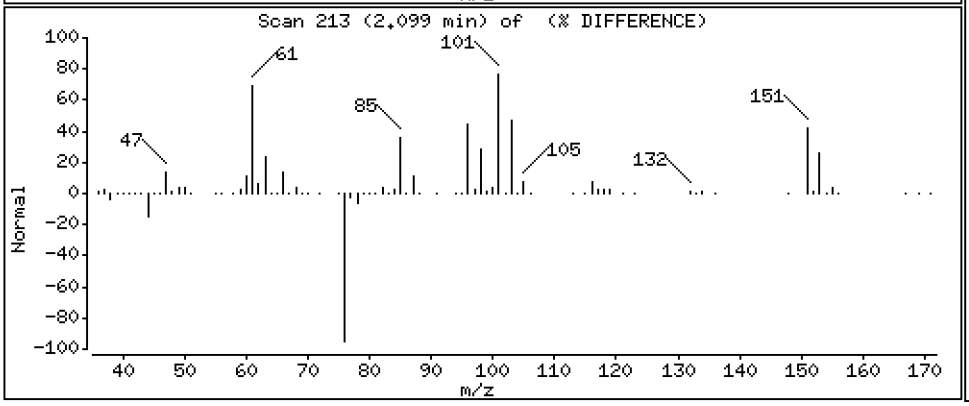
Column phase: DB-VRX Column diameter: 0.25

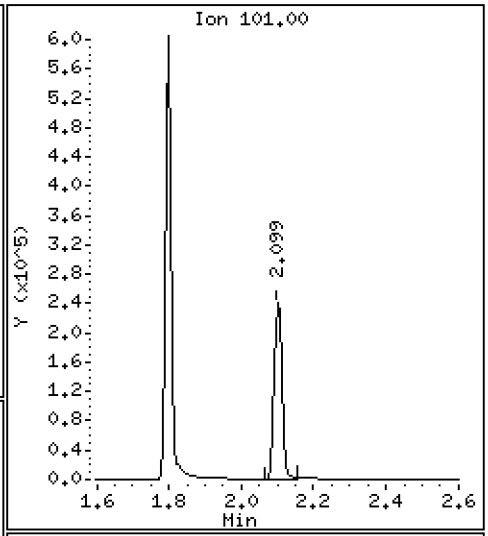
11 Freon 113 Concentration: 45.3418 ug/L

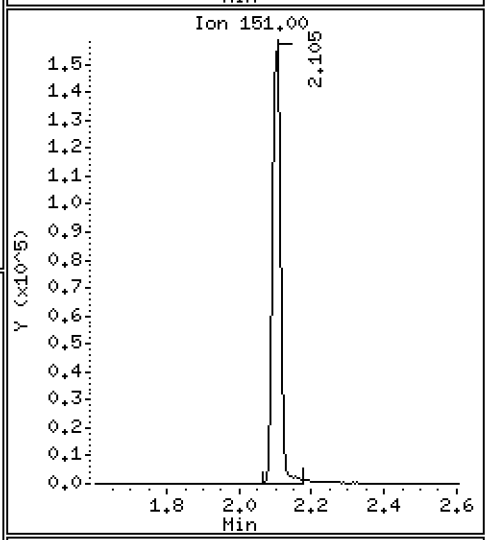


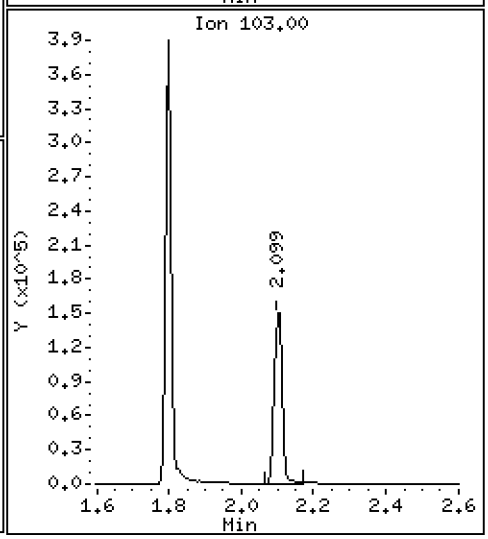












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 20

Date : 26-OCT-2016 09:18

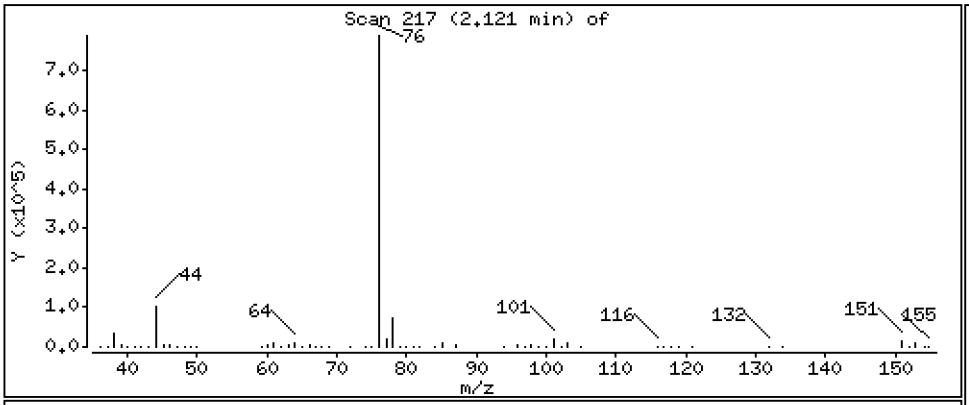
Client ID: Instrument: ms03.i

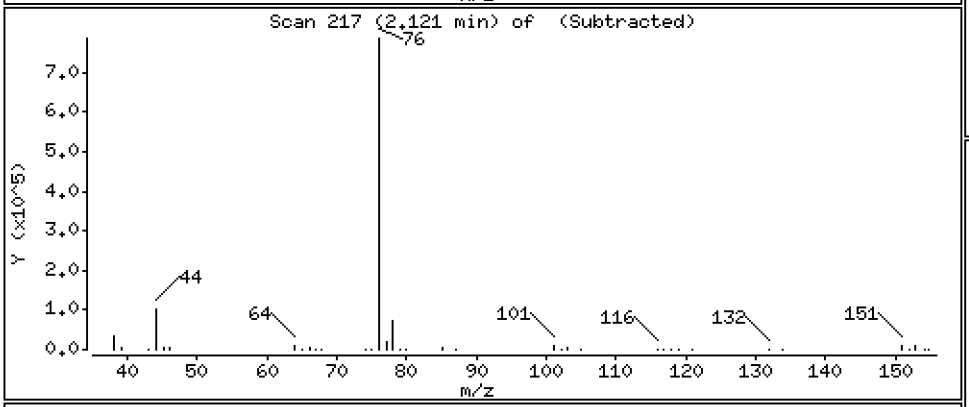
Sample Info: 1800;;1;2;4;;;

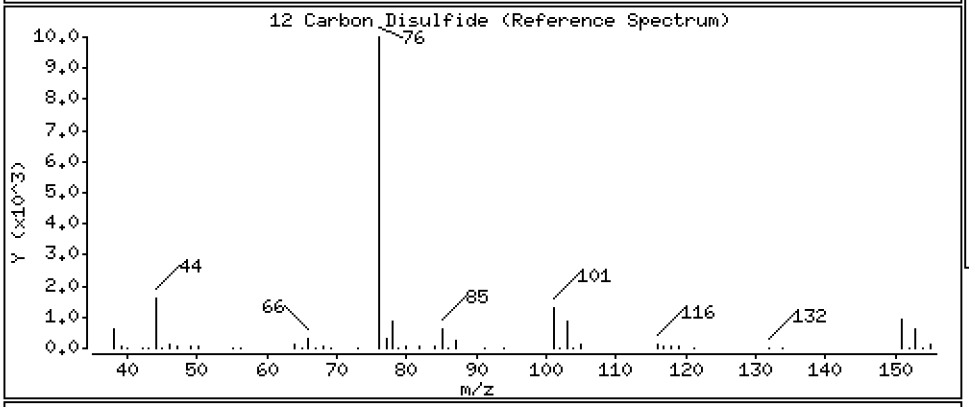
Purge Volume: 5.0 Operator: DD

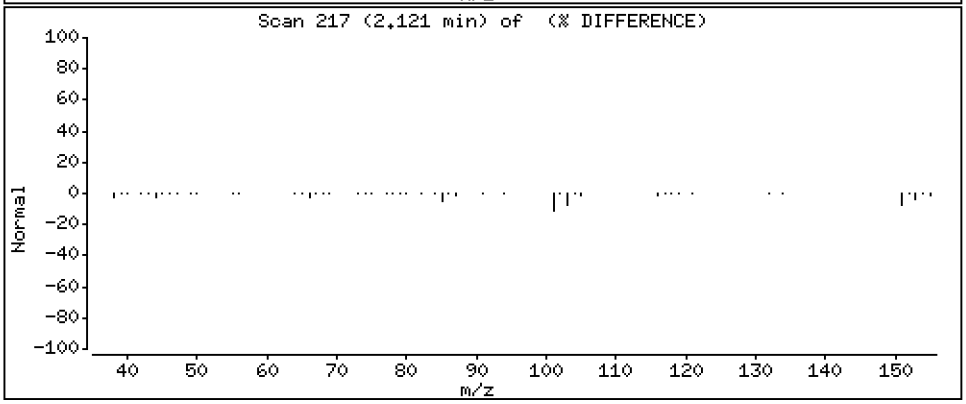
Column phase: DB-VRX Column diameter: 0.25

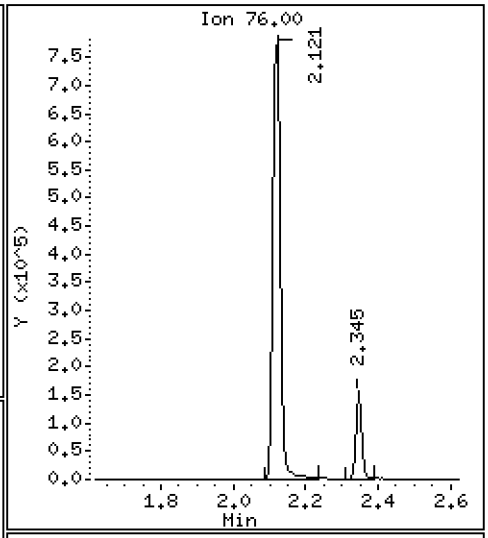
12 Carbon Disulfide Concentration: 44.9214 ug/L

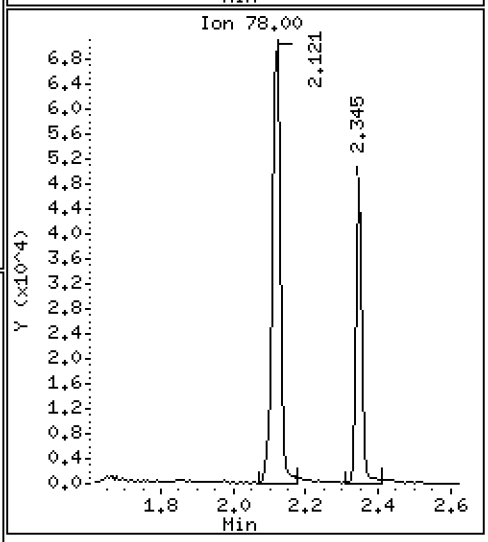












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 21

Date : 26-OCT-2016 09:18

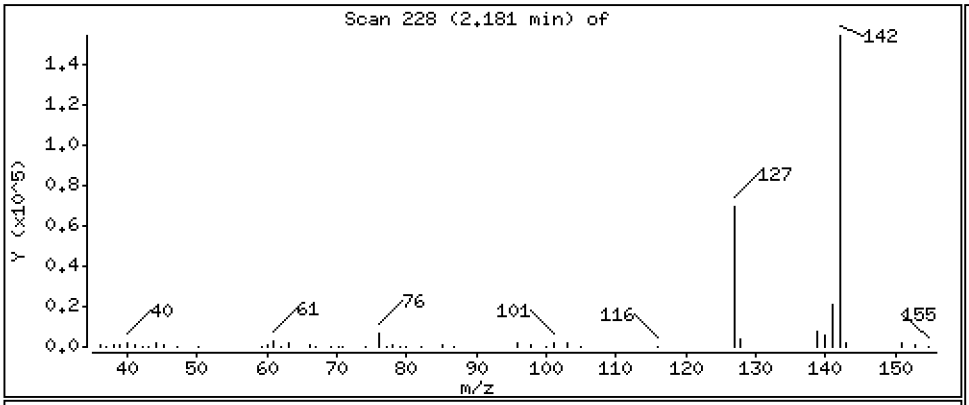
Client ID: Instrument: ms03.i

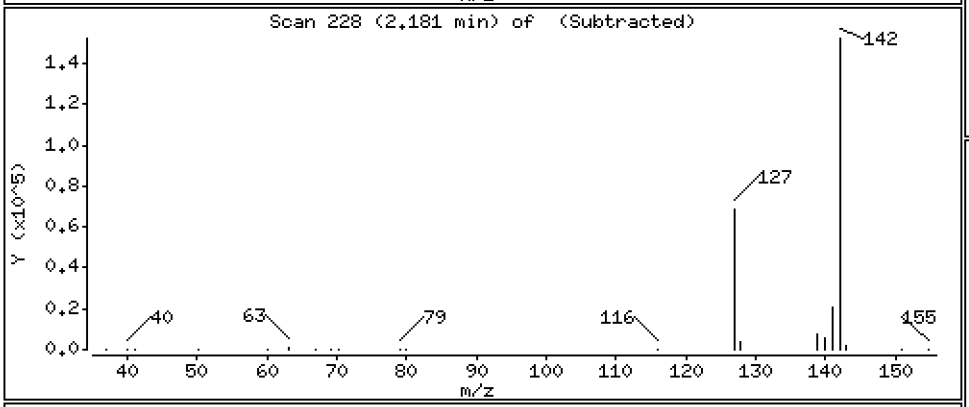
Sample Info: 1800;;1;2;4;;;

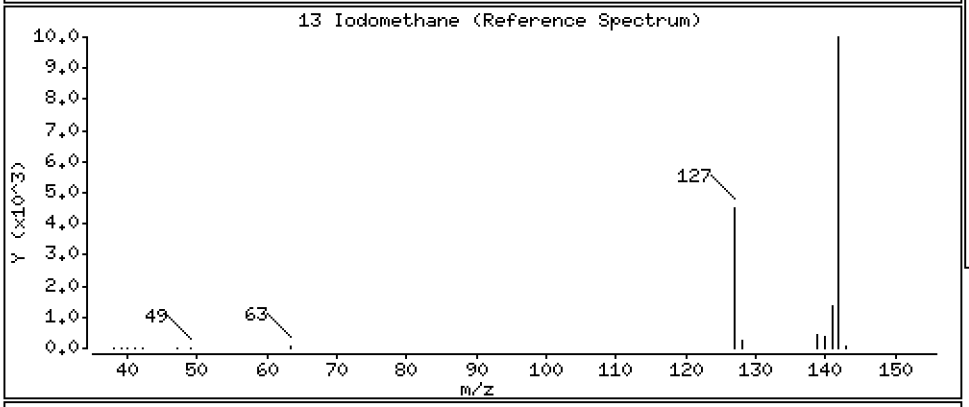
Purge Volume: 5.0 Operator: DD

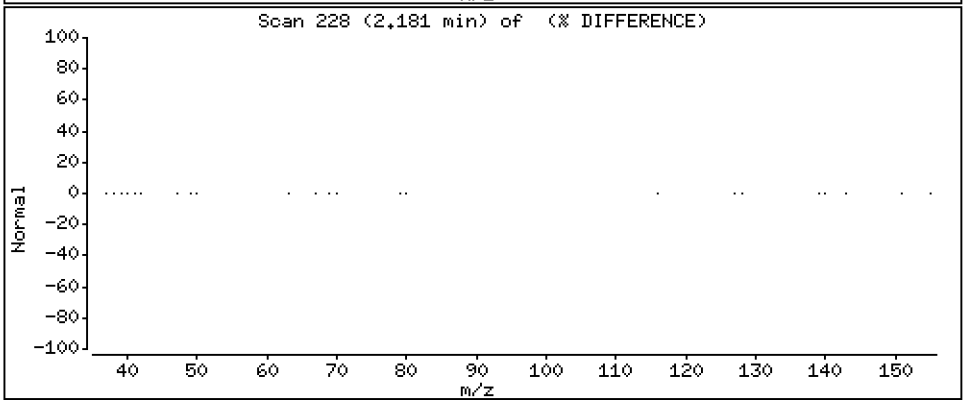
Column phase: DB-VRX Column diameter: 0.25

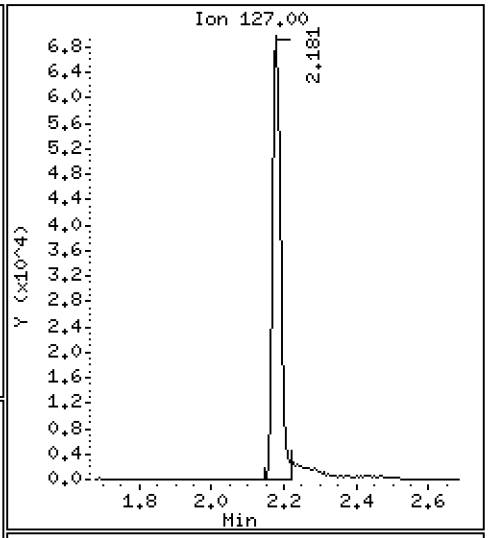
13 Iodomethane Concentration: 49.1496 ug/L

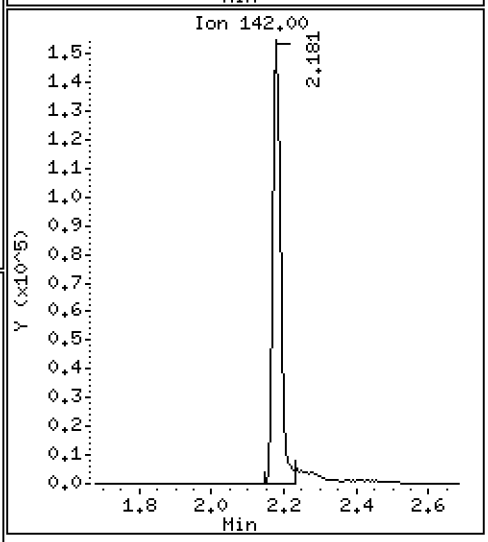












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 22

Date : 26-OCT-2016 09:18

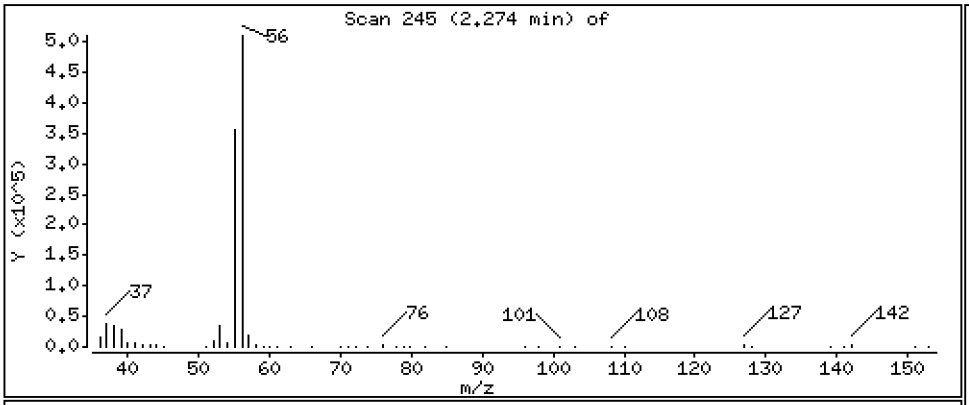
Client ID: Instrument: ms03.i

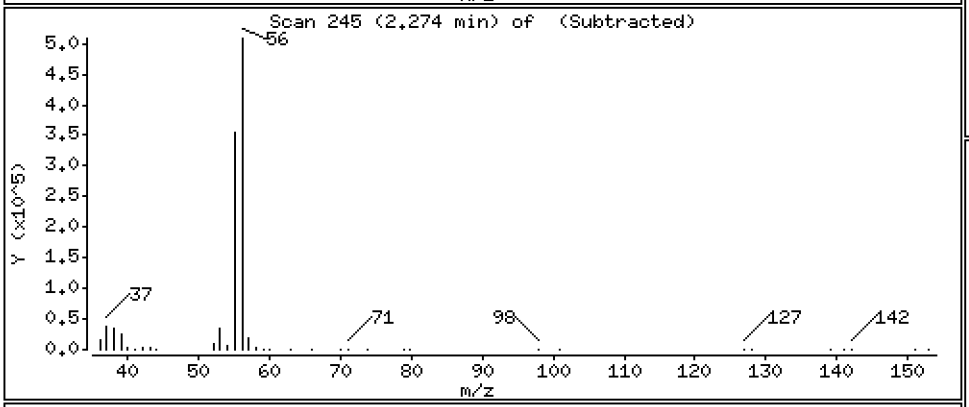
Sample Info: 1800;;1;2;4;;;

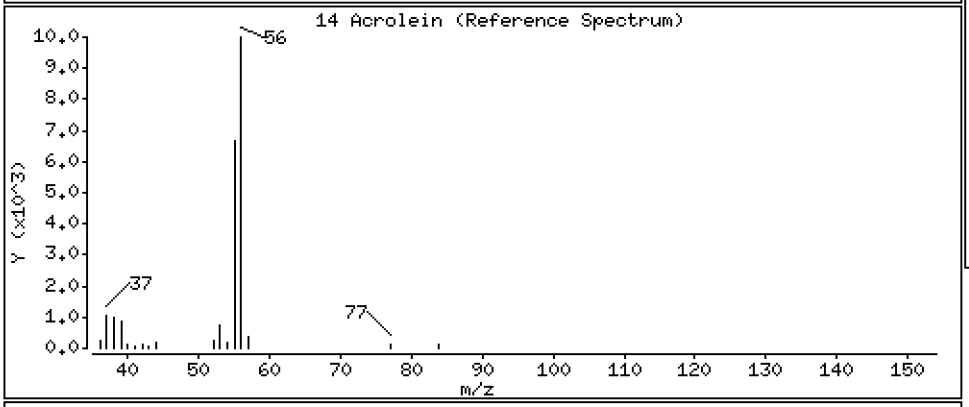
Purge Volume: 5.0 Operator: DD

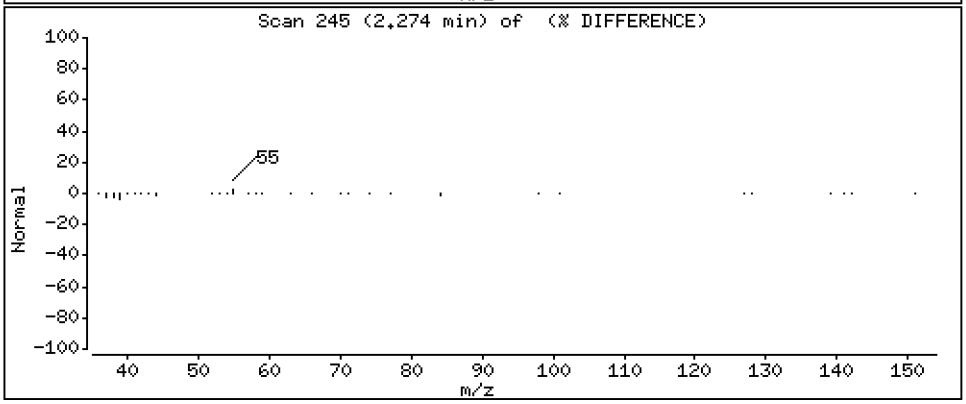
Column phase: DB-VRX Column diameter: 0.25

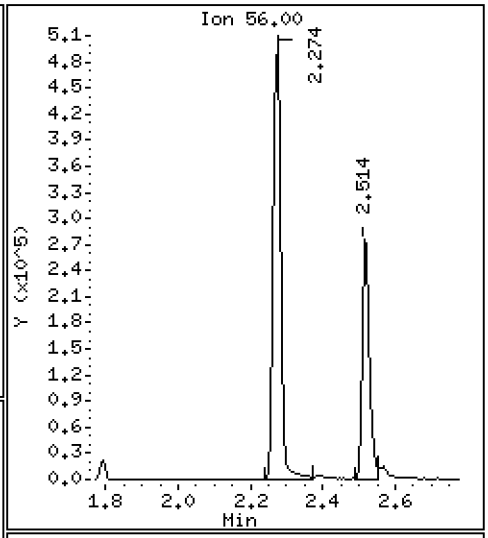
14 Acrolein Concentration: 536.557 ug/L

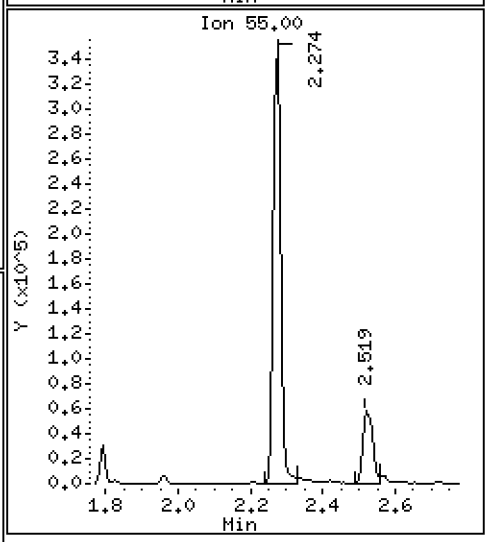












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 23

Date : 26-OCT-2016 09:18

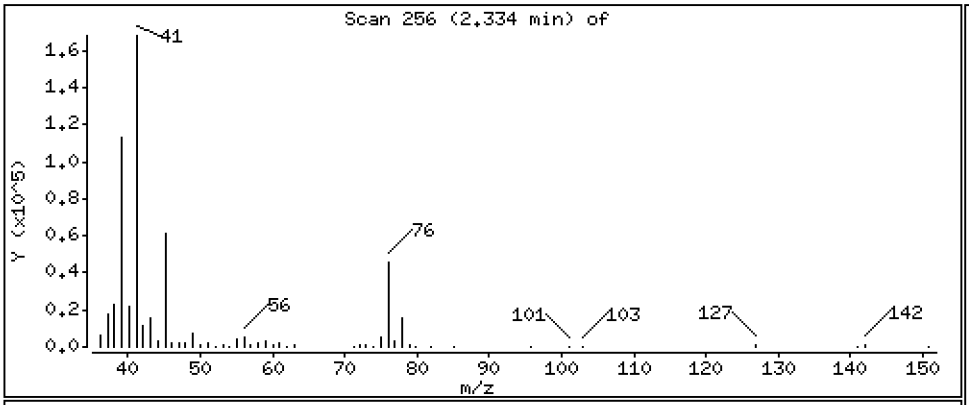
Client ID: Instrument: ms03.i

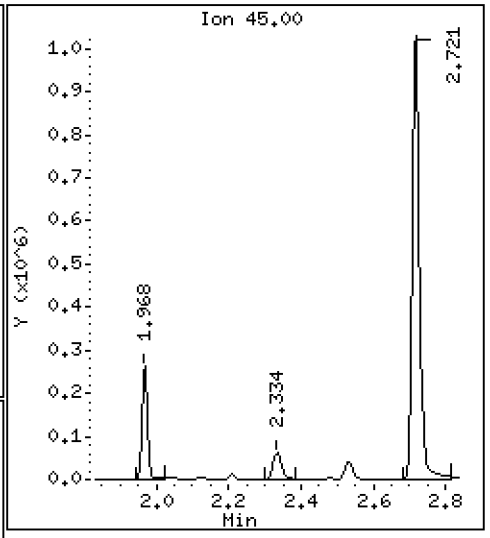
Sample Info: 1800;;1;2;4;;;

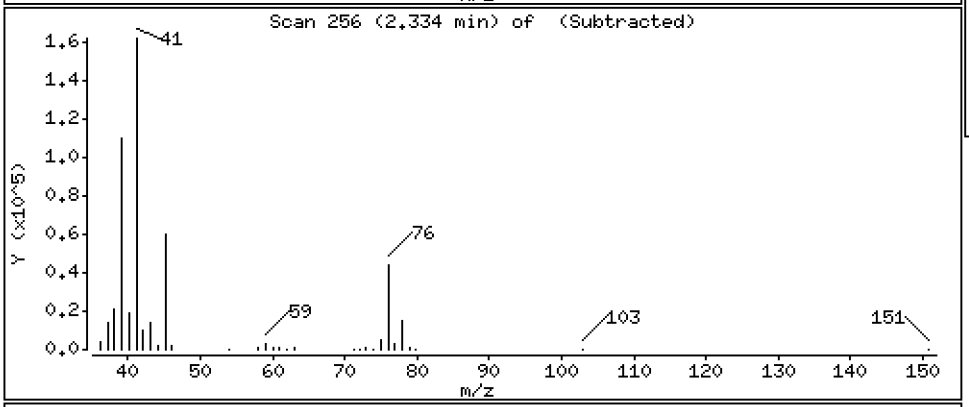
Purge Volume: 5.0 Operator: DD

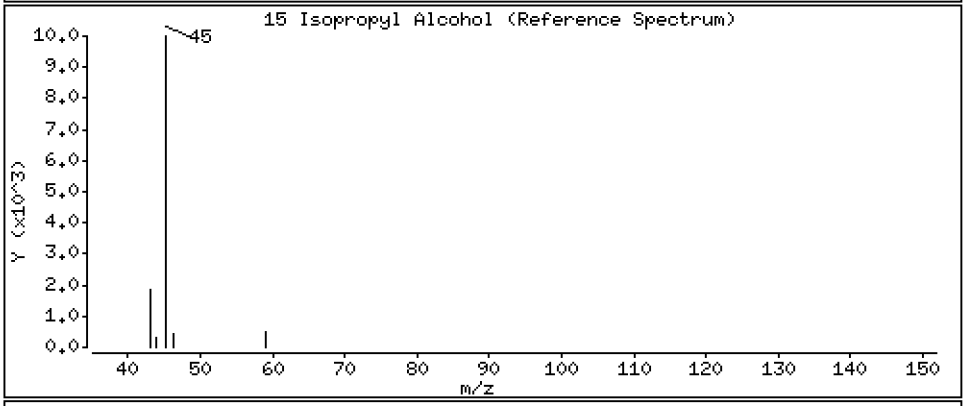
Column phase: DB-VRX Column diameter: 0.25

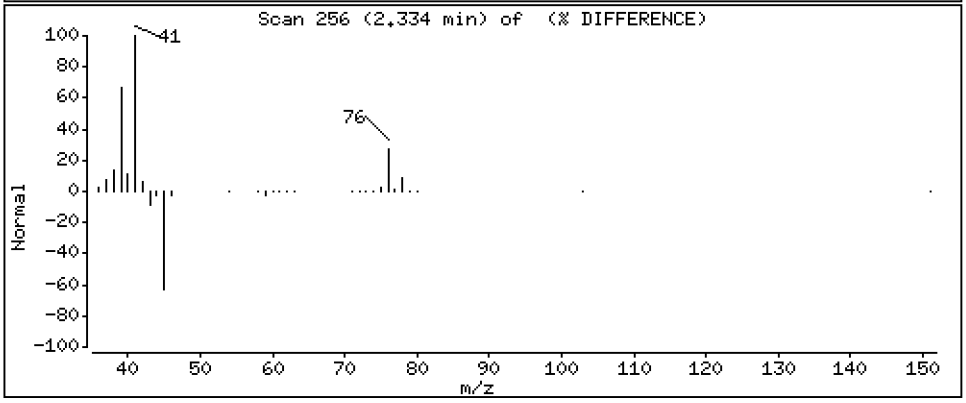
15 Isopropyl Alcohol Concentration: 331.322 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 24

Date : 26-OCT-2016 09:18

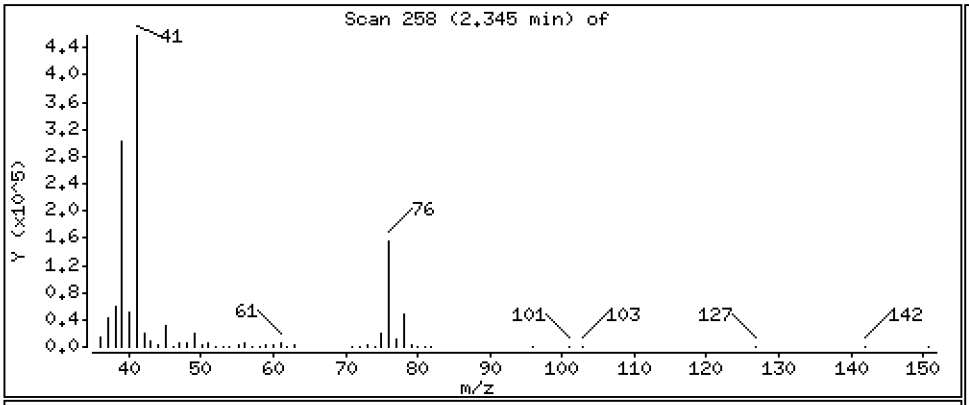
Client ID: Instrument: ms03.i

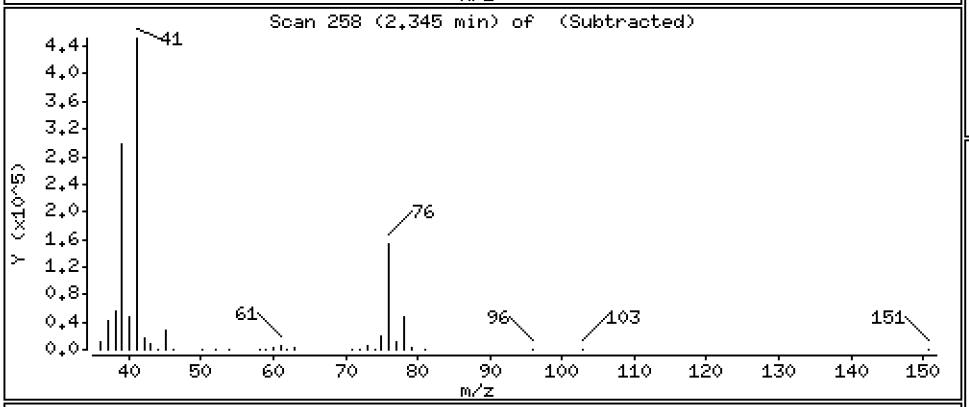
Sample Info: 1800;;1;2;4;;;

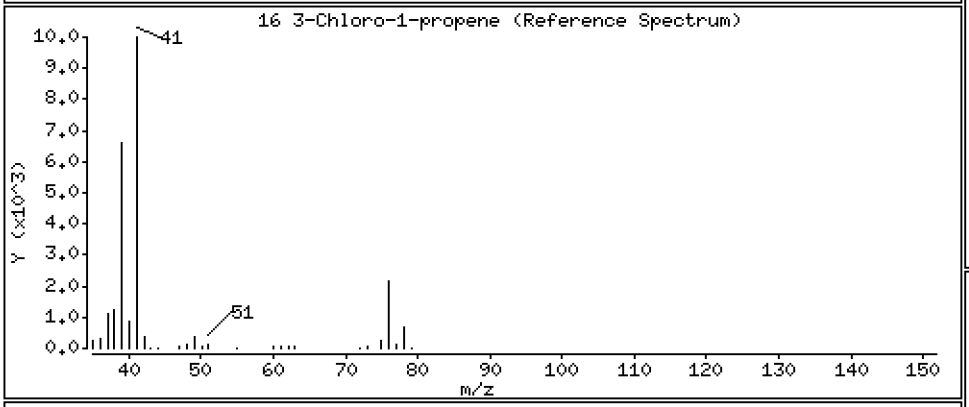
Purge Volume: 5.0 Operator: DD

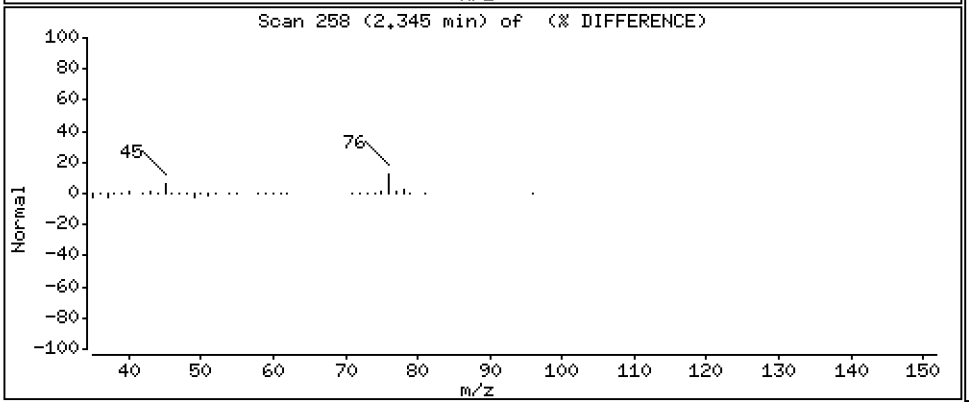
Column phase: DB-VRX Column diameter: 0.25

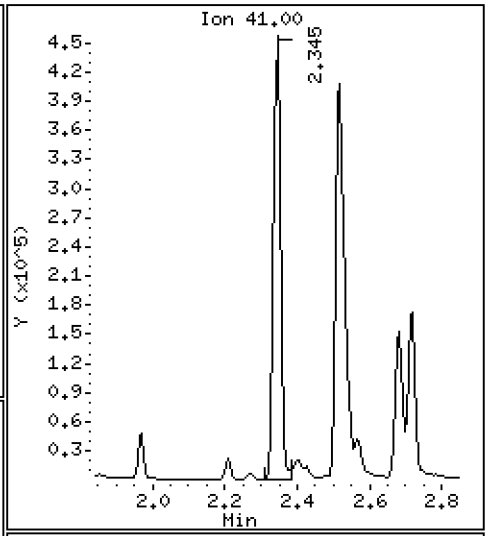
16 3-Chloro-1-propene Concentration: 51.1580 ug/L

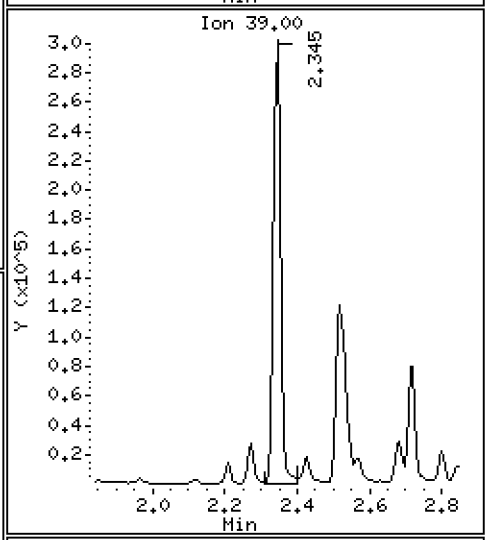


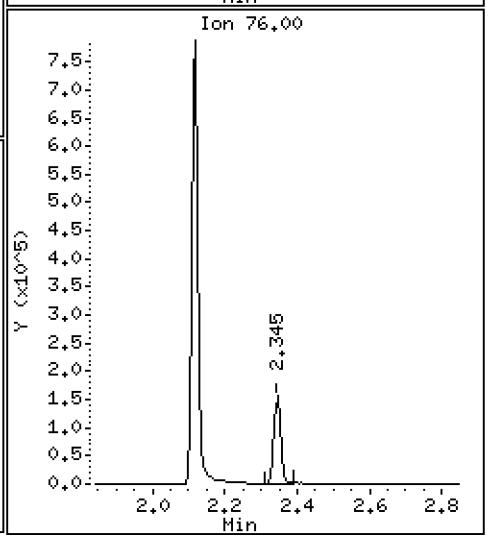












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 25

Date : 26-OCT-2016 09:18

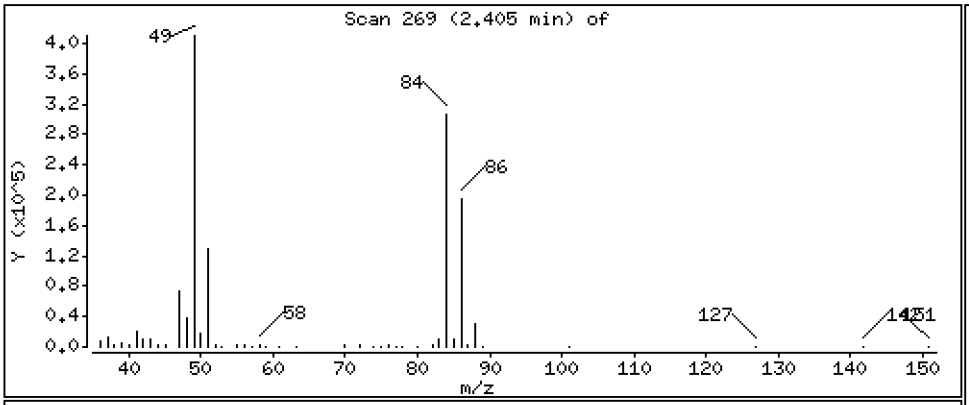
Client ID: Instrument: ms03.i

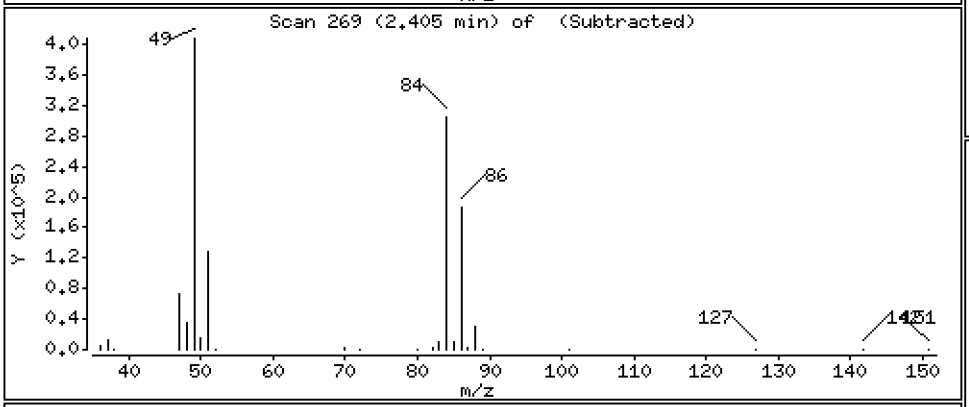
Sample Info: 1800;;1;2;4;;;

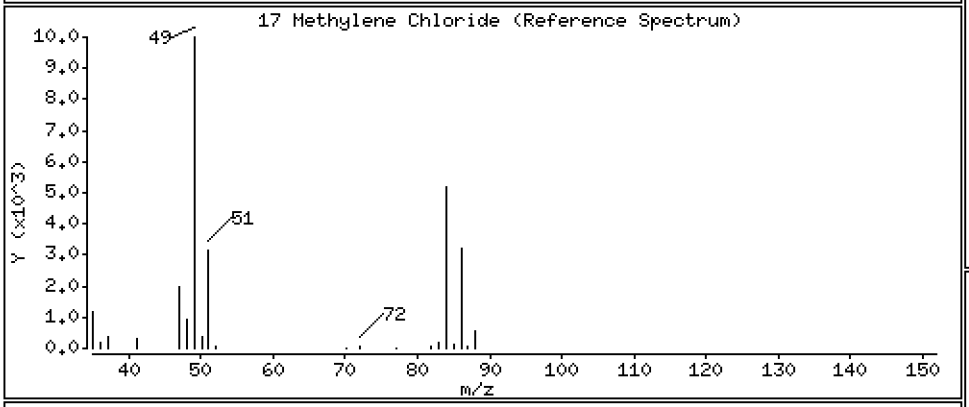
Purge Volume: 5.0 Operator: DD

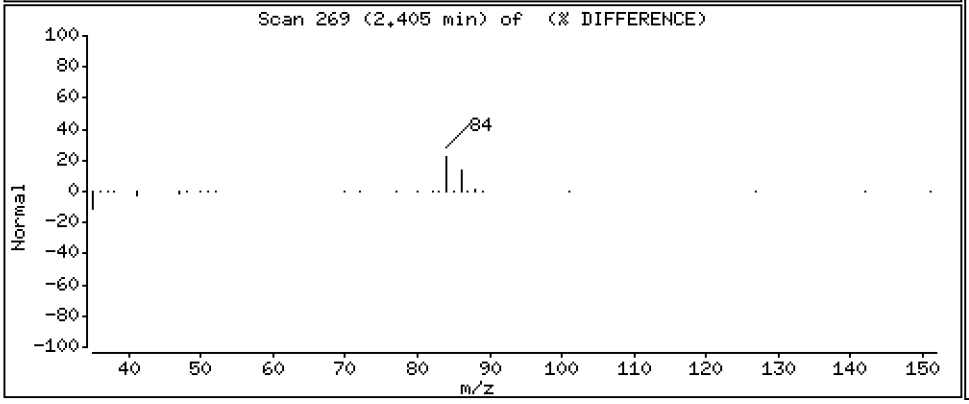
Column phase: DB-VRX Column diameter: 0.25

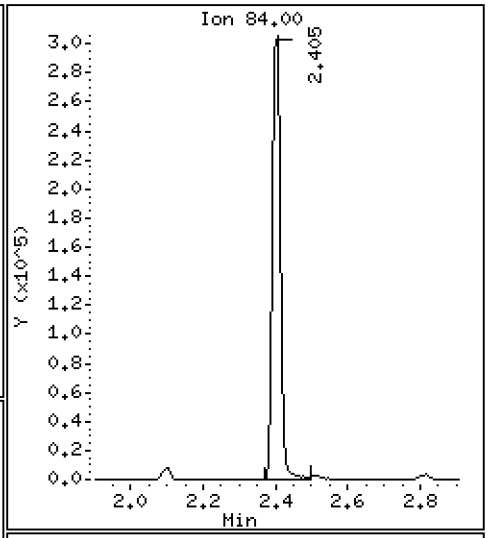
17 Methylene Chloride Concentration: 49.8850 ug/L

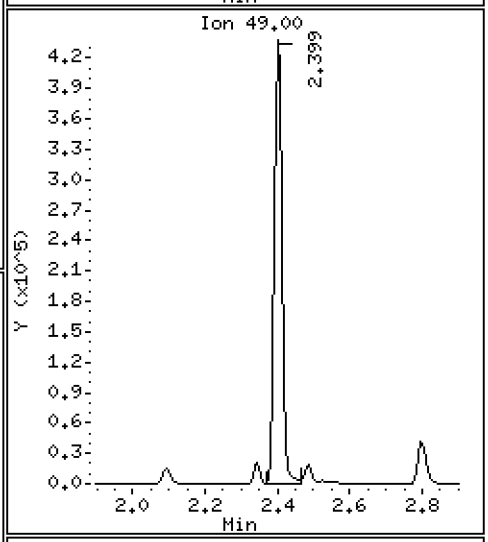


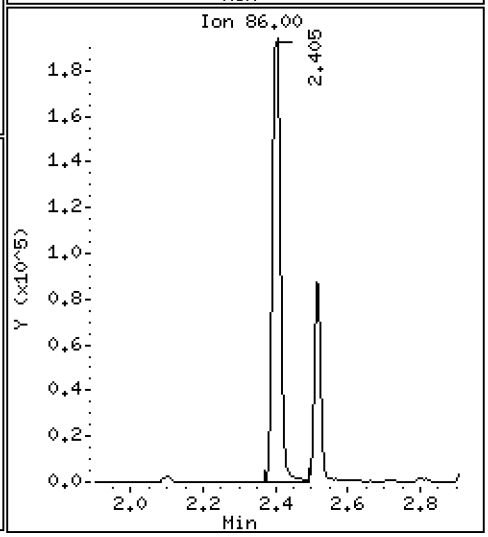












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 26

Date : 26-OCT-2016 09:18

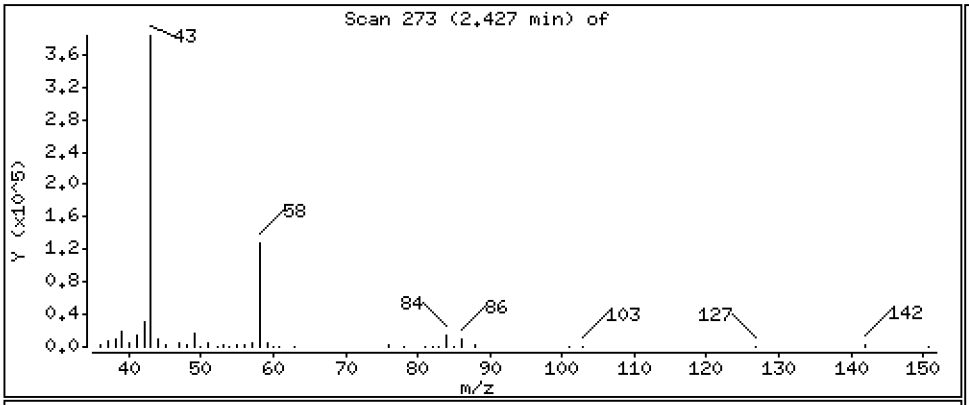
Client ID: Instrument: ms03.i

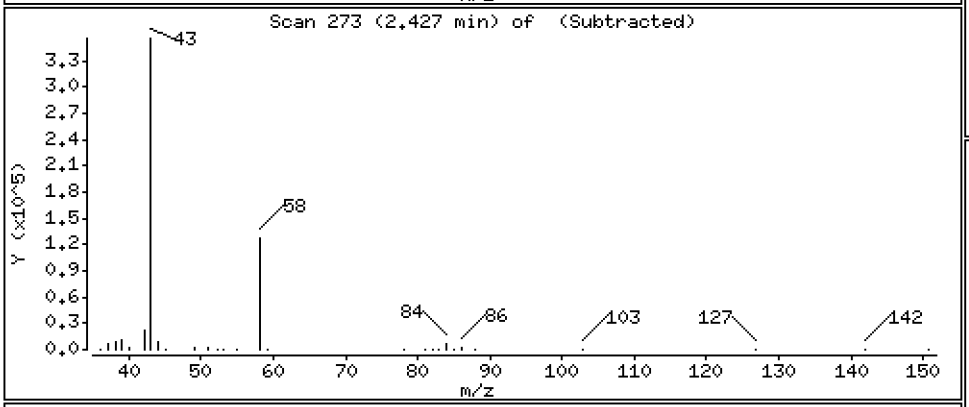
Sample Info: 1800;;1;2;4;;;

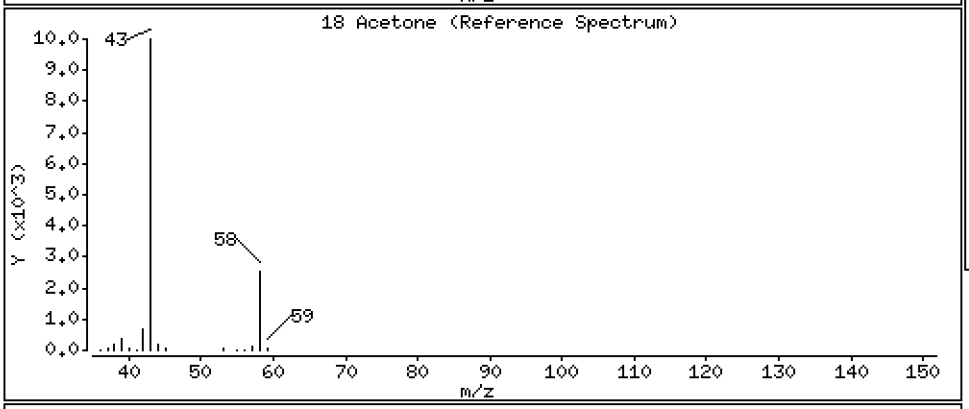
Purge Volume: 5.0 Operator: DD

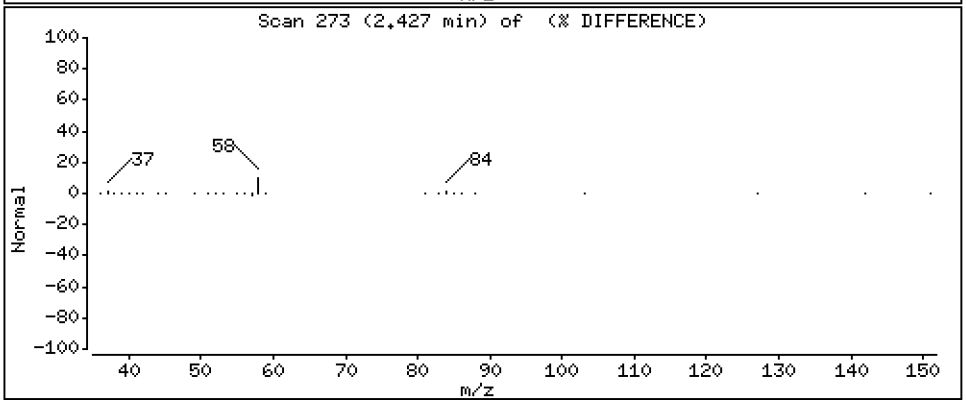
Column phase: DB-VRX Column diameter: 0.25

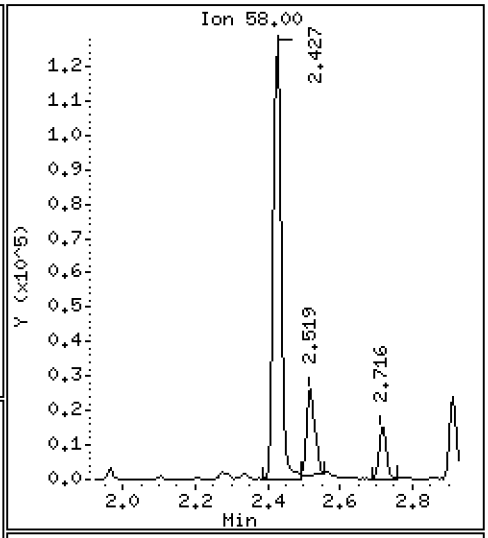
18 Acetone Concentration: 259.905 ug/L

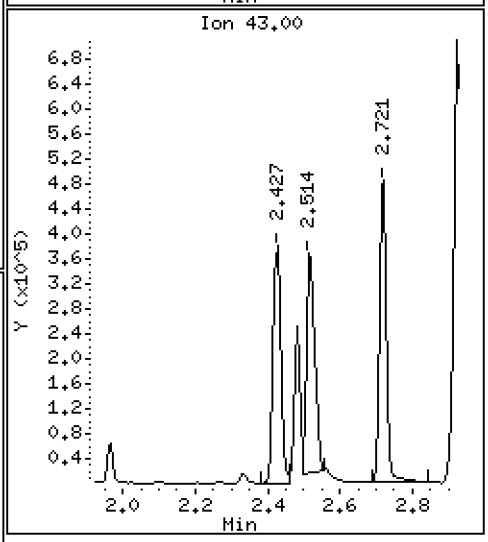












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 27

Date : 26-OCT-2016 09:18

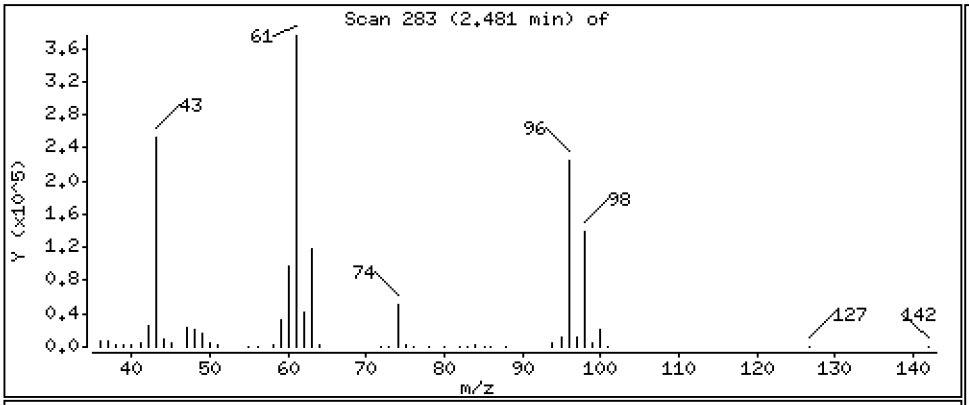
Client ID: Instrument: ms03.i

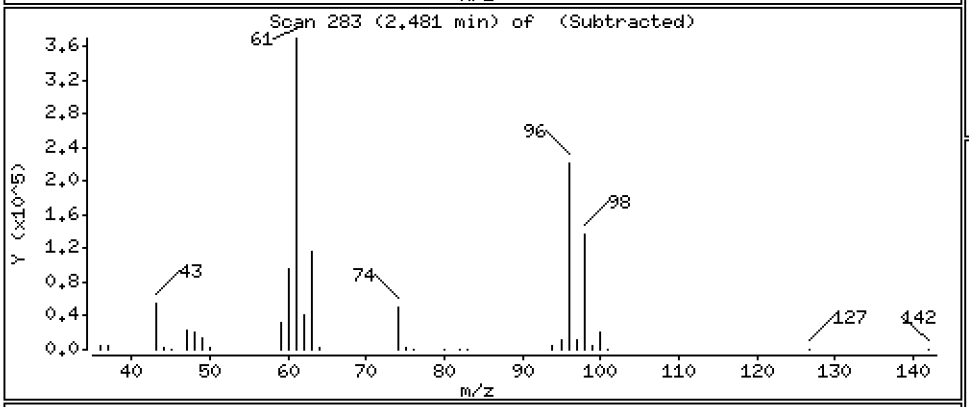
Sample Info: 1800;;1;2;4;;;

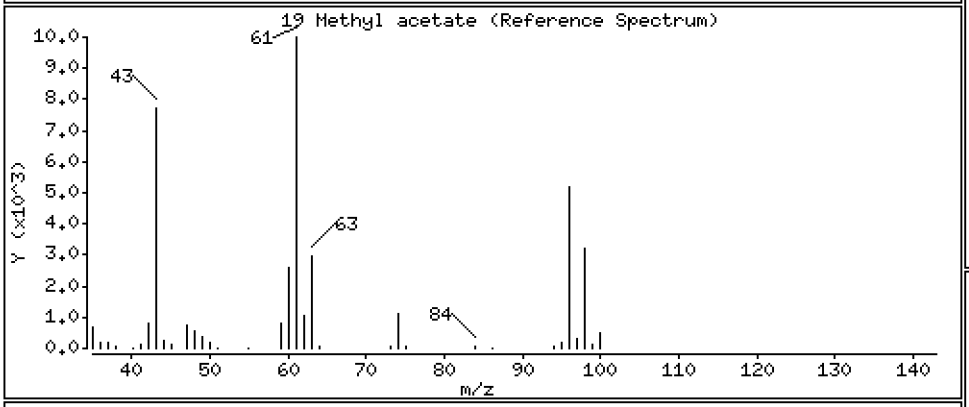
Purge Volume: 5.0 Operator: DD

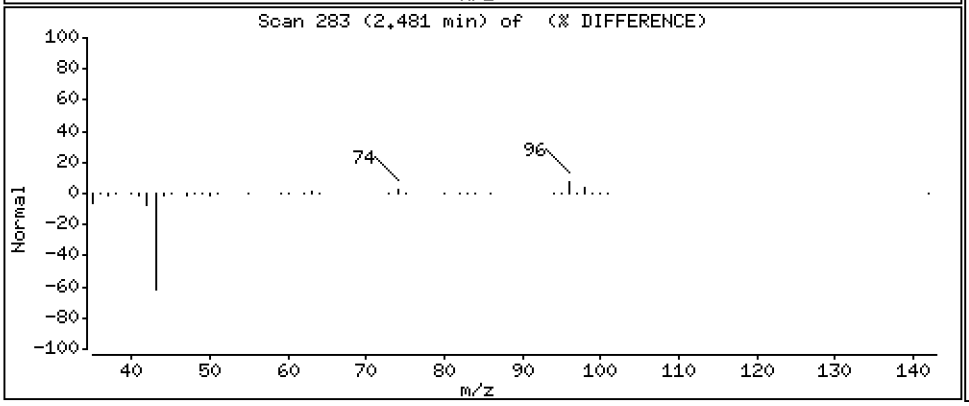
Column phase: DB-VRX Column diameter: 0.25

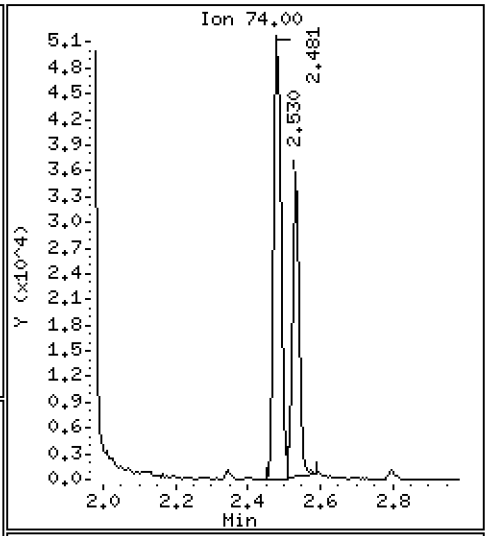
19 Methyl acetate Concentration: 48.7139 ug/L

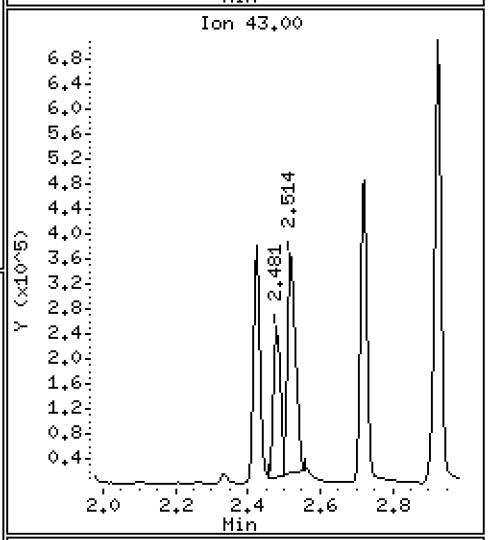


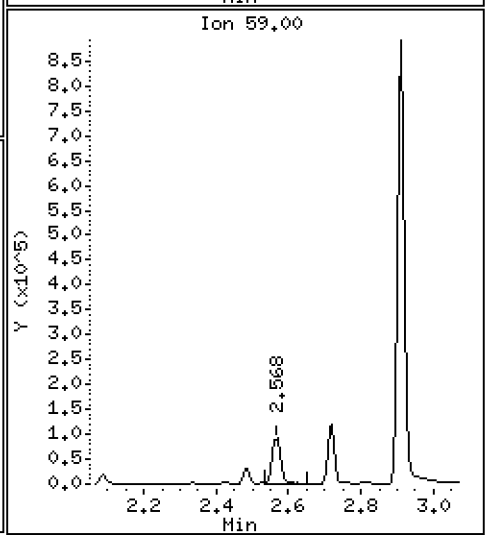












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 28

Date : 26-OCT-2016 09:18

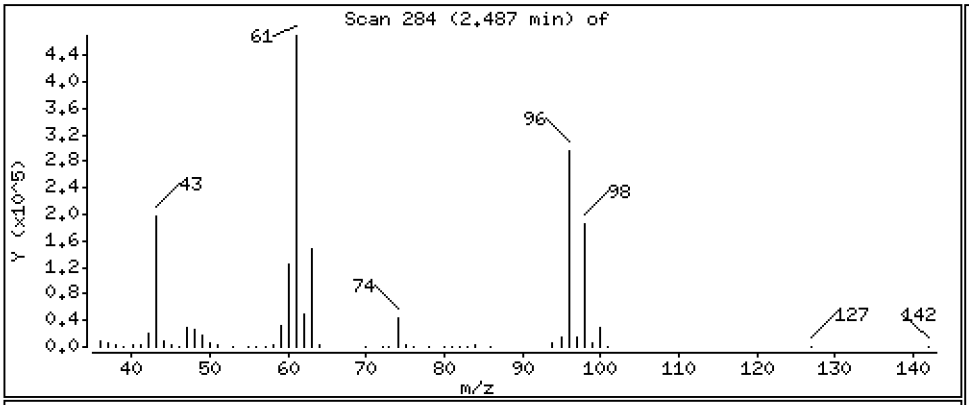
Client ID: Instrument: ms03.i

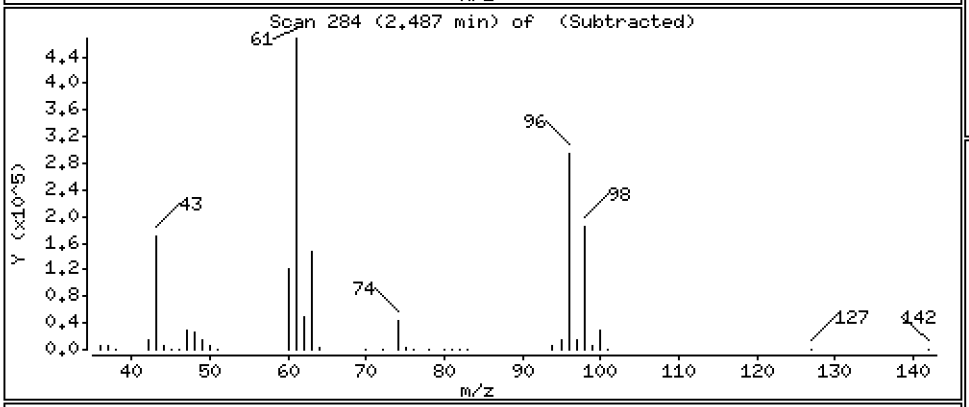
Sample Info: 1800;;1;2;4;;;

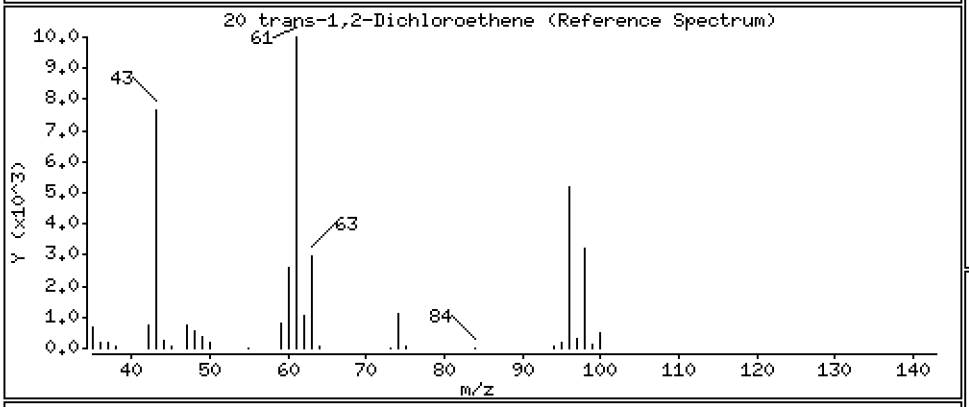
Purge Volume: 5.0 Operator: DD

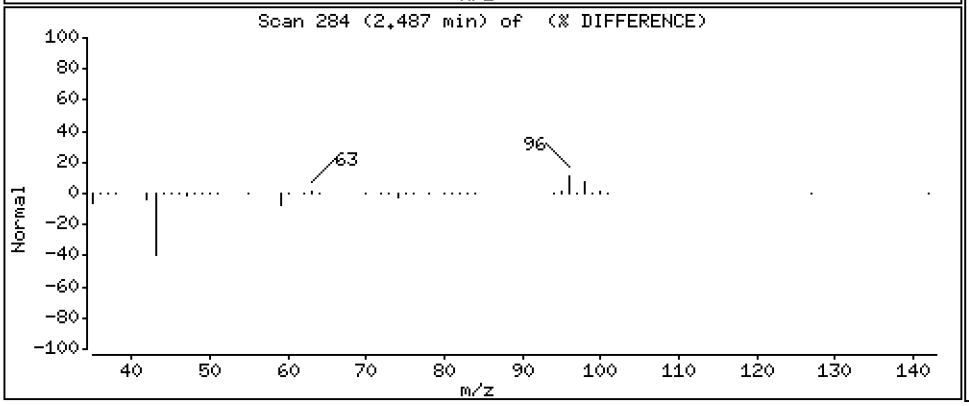
Column phase: DB-VRX Column diameter: 0.25

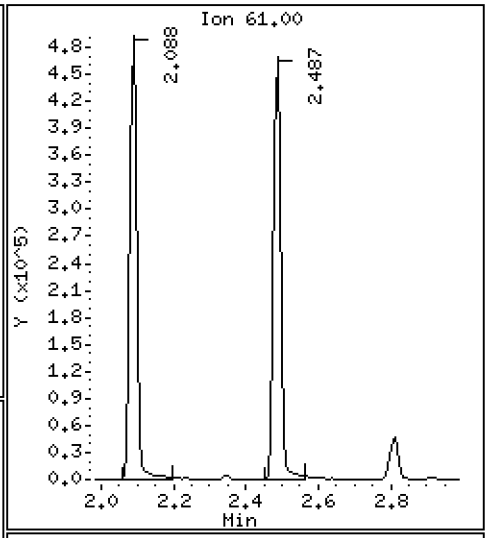
20 trans-1,2-Dichloroethene Concentration: 46.7264 ug/L

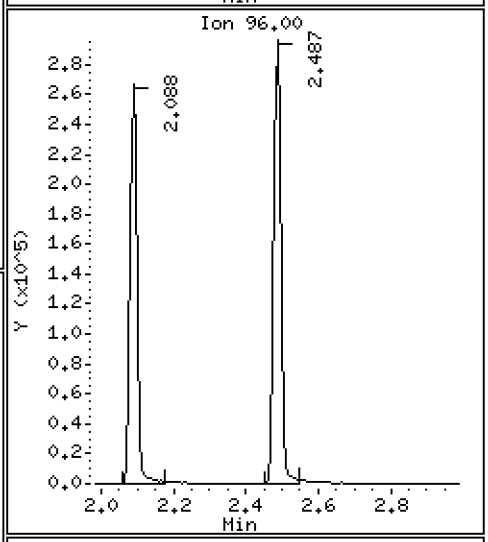


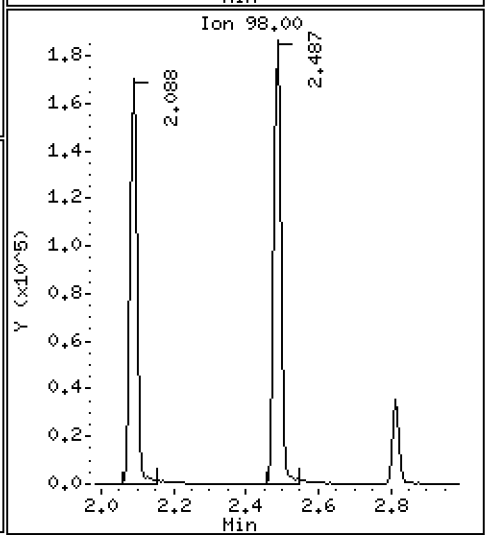












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 29

Date : 26-OCT-2016 09:18

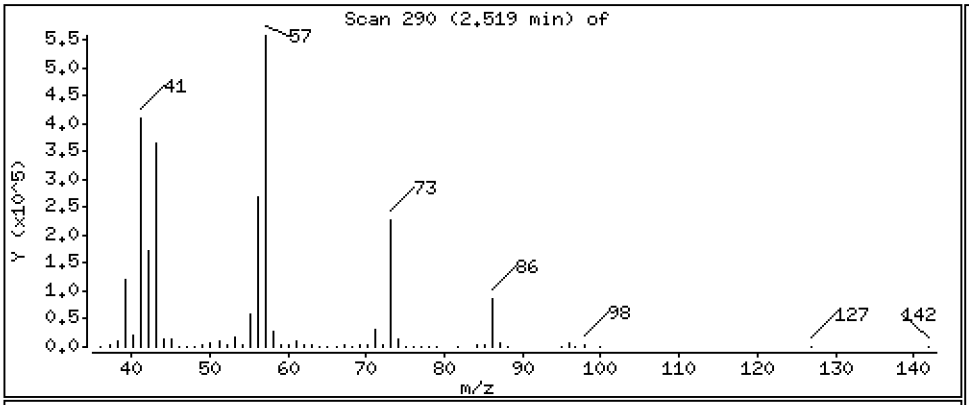
Client ID: Instrument: ms03.i

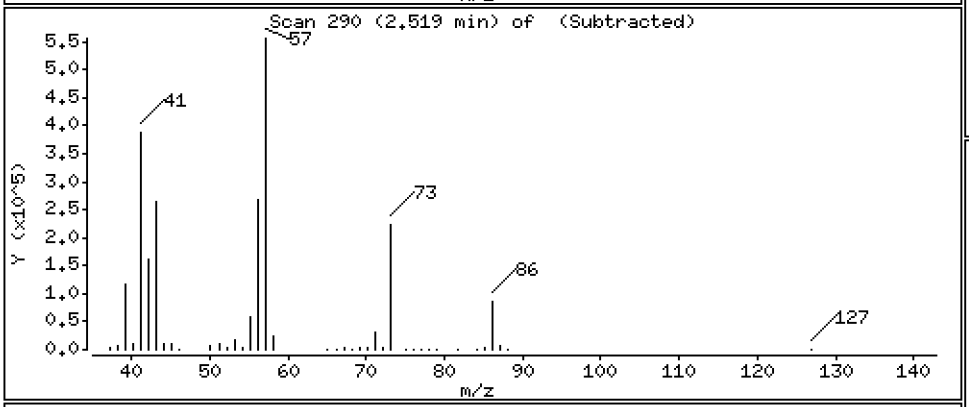
Sample Info: 1800;;1;2;4;;;

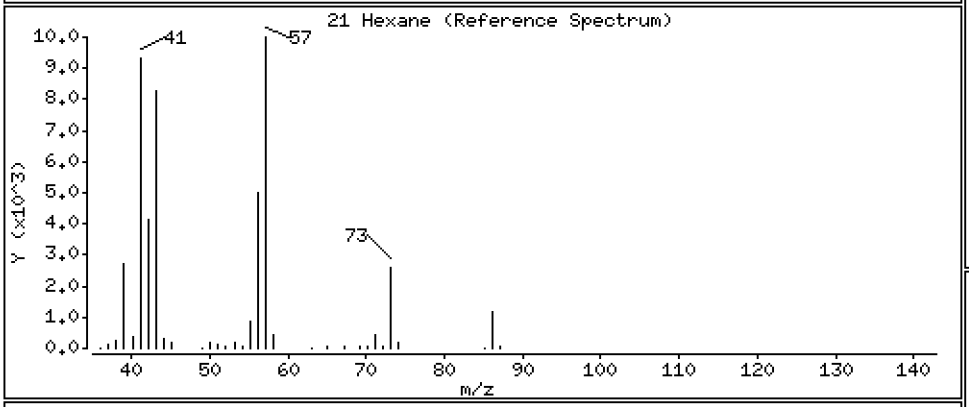
Purge Volume: 5.0 Operator: DD

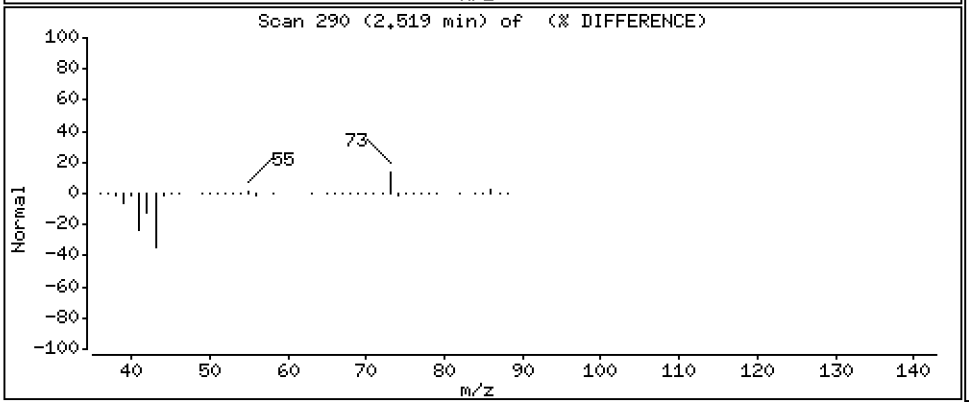
Column phase: DB-VRX Column diameter: 0.25

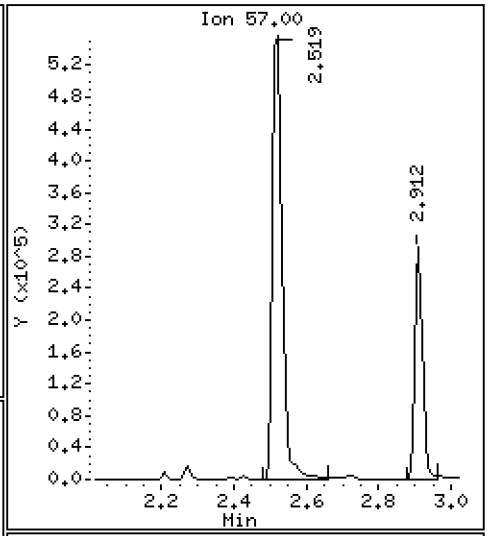
21 Hexane Concentration: 54.7463 ug/L

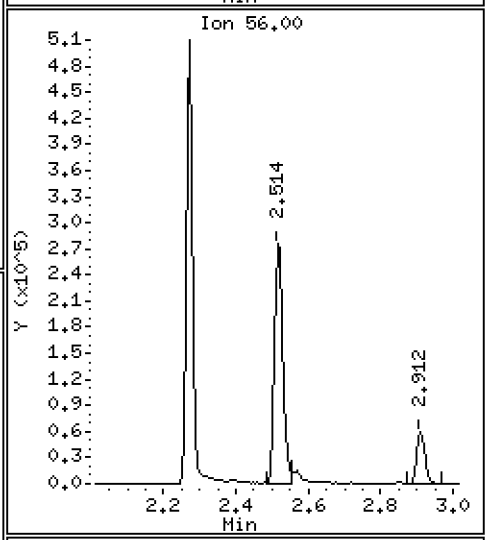


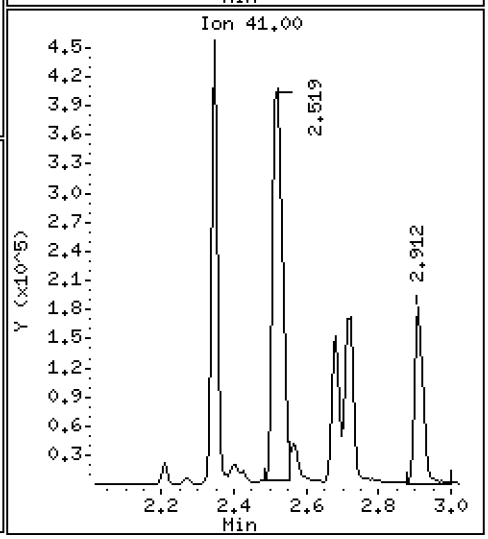












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 30

Date : 26-OCT-2016 09:18

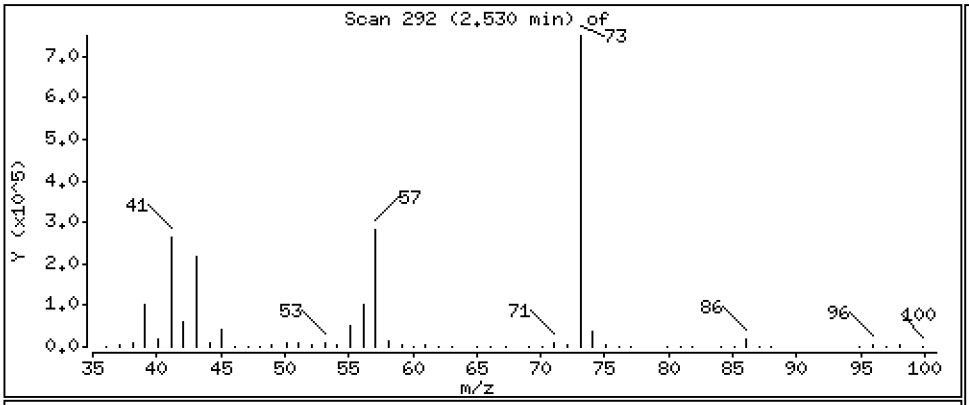
Client ID: Instrument: ms03.i

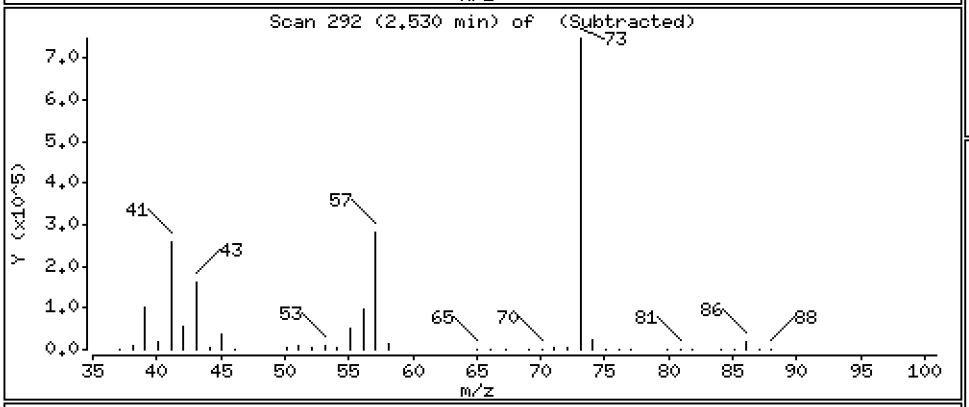
Sample Info: 1800;;1;2;4;;;

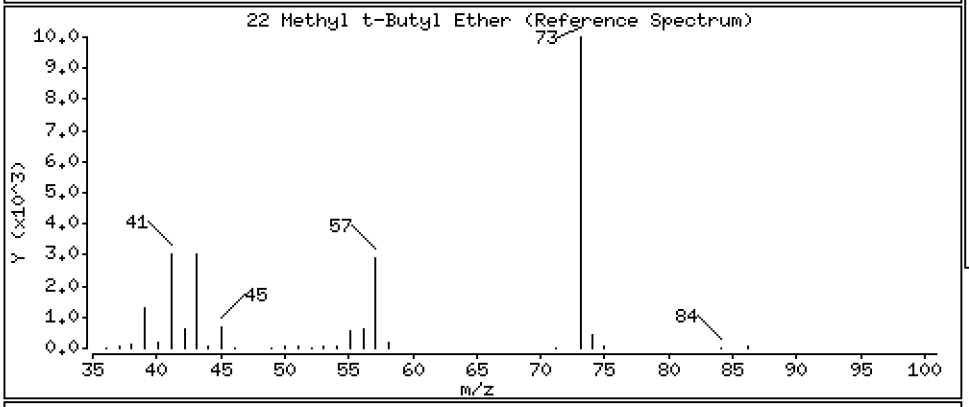
Purge Volume: 5.0 Operator: DD

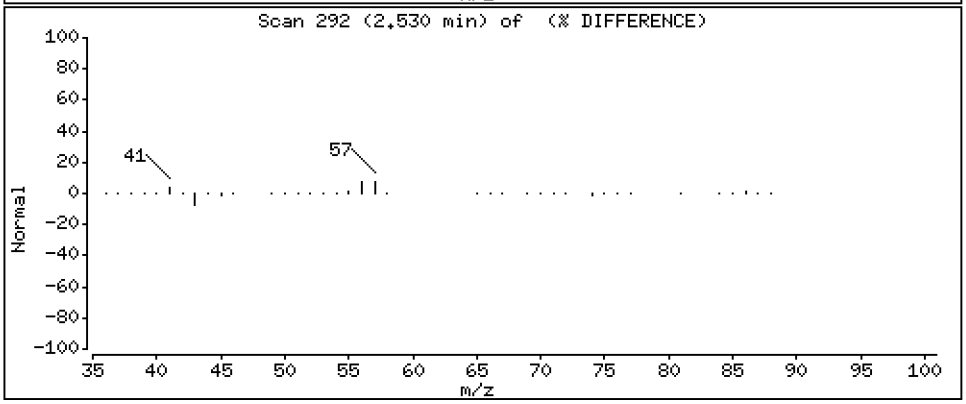
Column phase: DB-VRX Column diameter: 0.25

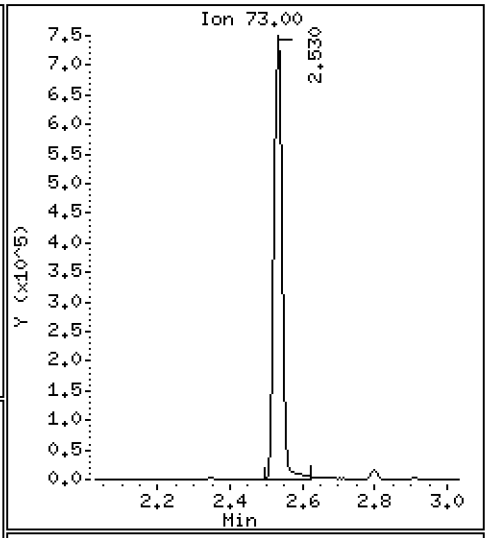
22 Methyl t-Butyl Ether Concentration: 49.1238 ug/L

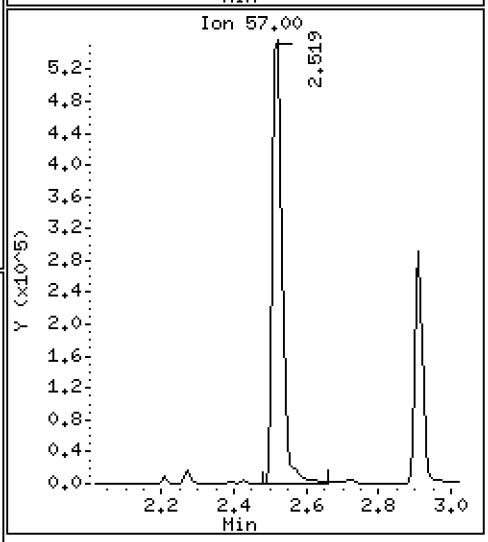












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 31

Date : 26-OCT-2016 09:18

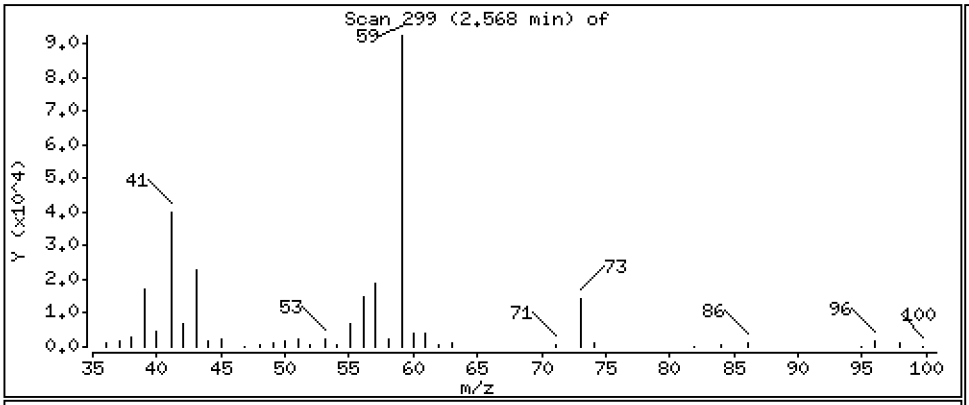
Client ID: Instrument: ms03.i

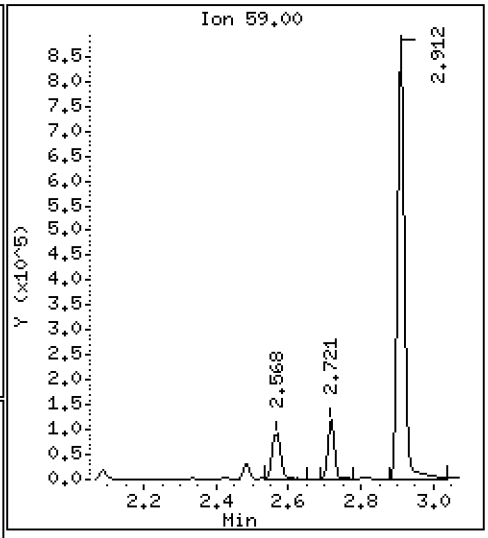
Sample Info: 1800;;1;2;4;;;

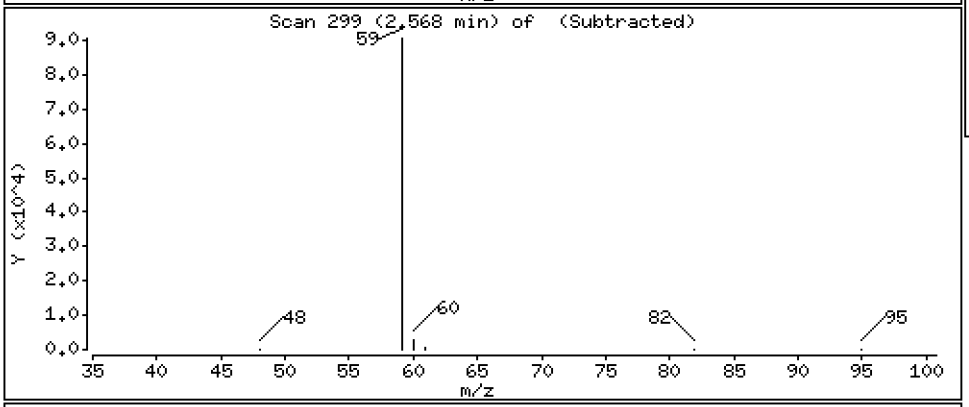
Purge Volume: 5.0 Operator: DD

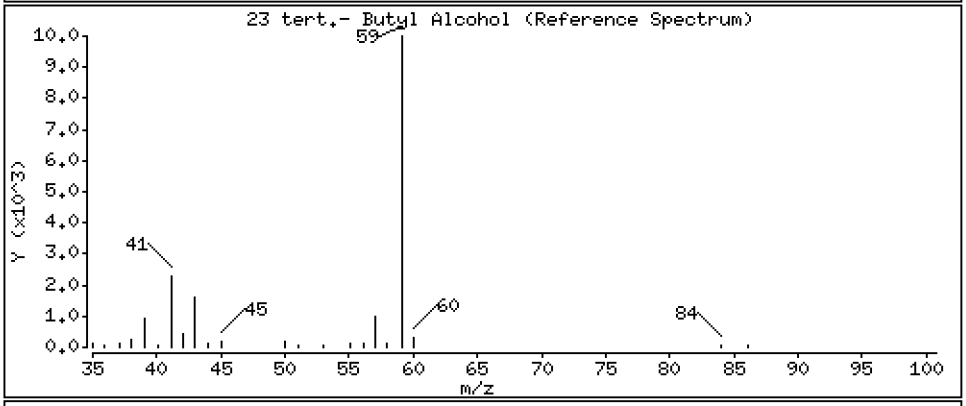
Column phase: DB-VRX Column diameter: 0.25

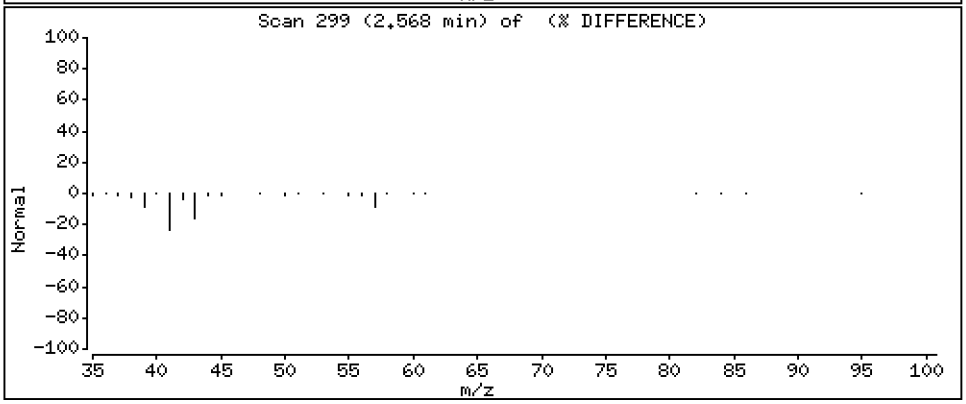
23 tert.- Butyl Alcohol Concentration: 294.573 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 32

Date : 26-OCT-2016 09:18

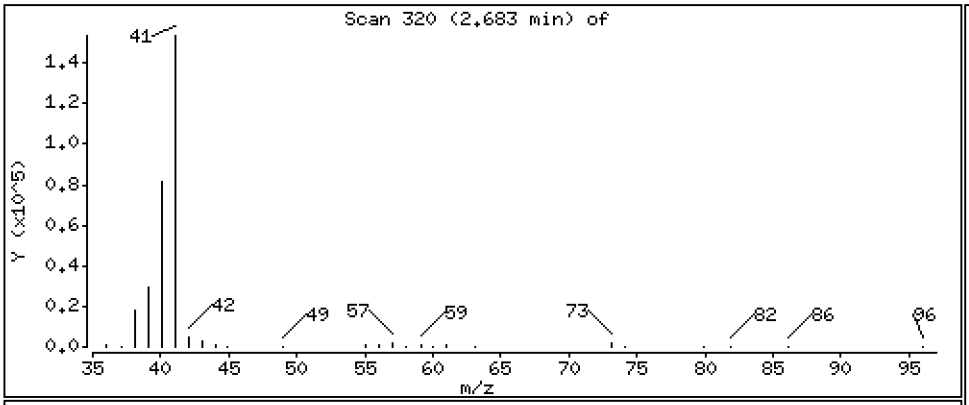
Client ID: Instrument: ms03.i

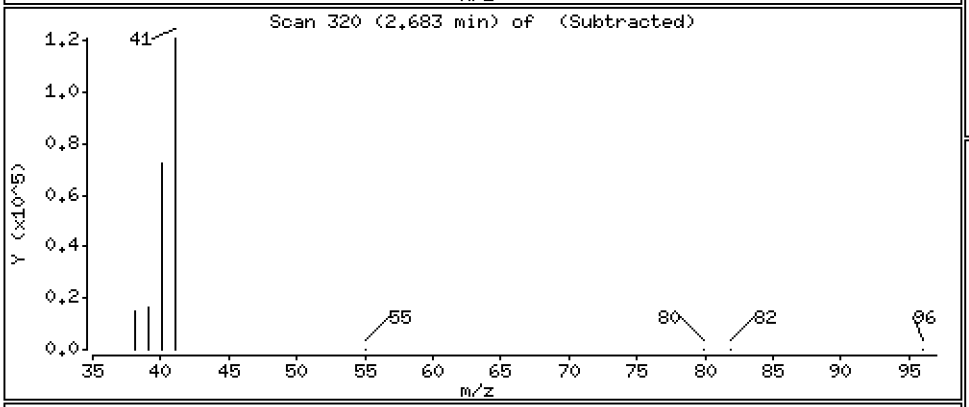
Sample Info: 1800;;1;2;4;;;

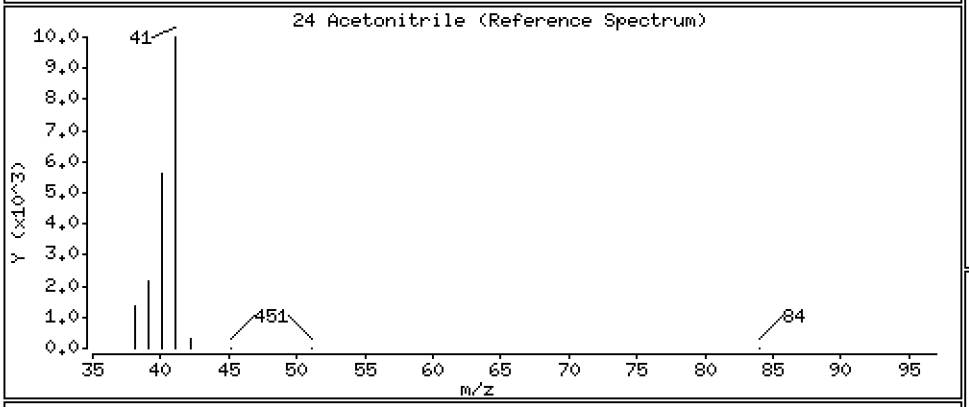
Purge Volume: 5.0 Operator: DD

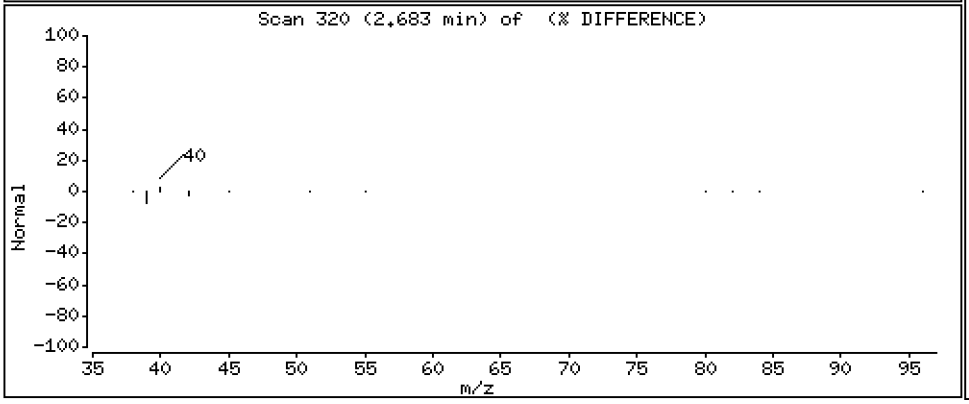
Column phase: DB-VRX Column diameter: 0.25

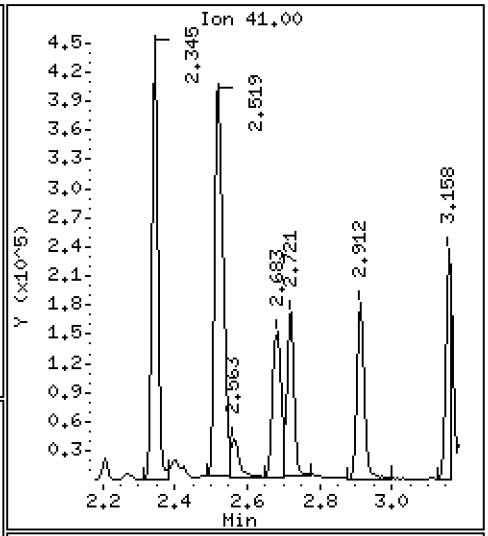
24 Acetonitrile Concentration: 320.123 ug/L

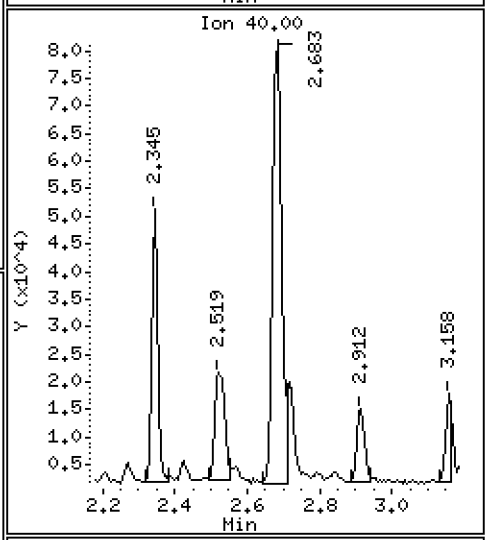


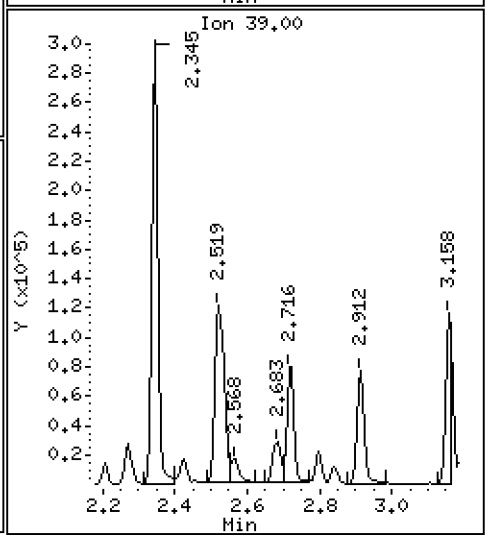












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 33

Date : 26-OCT-2016 09:18

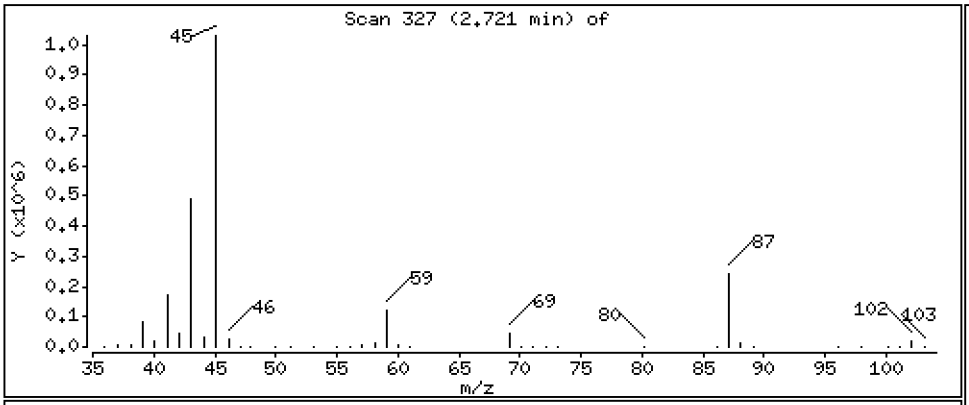
Client ID: Instrument: ms03.i

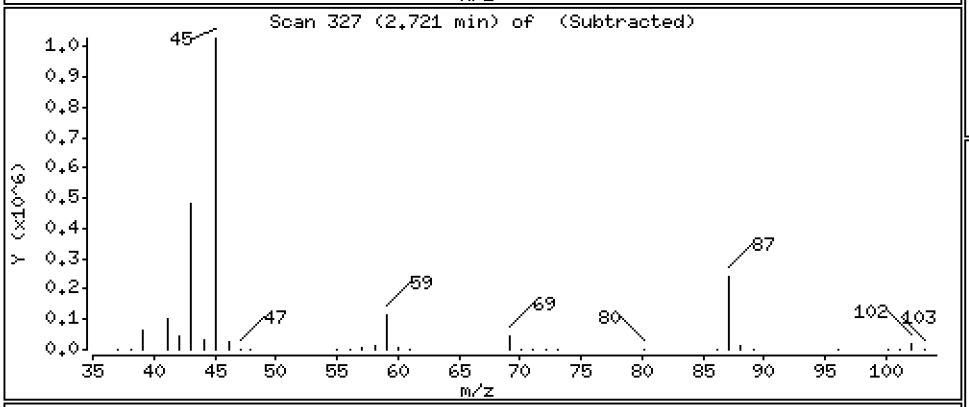
Sample Info: 1800;;1;2;4;;;

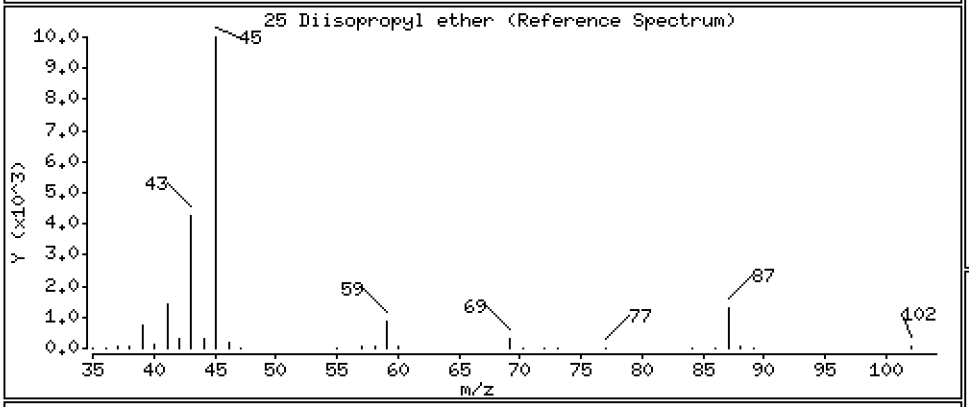
Purge Volume: 5.0 Operator: DD

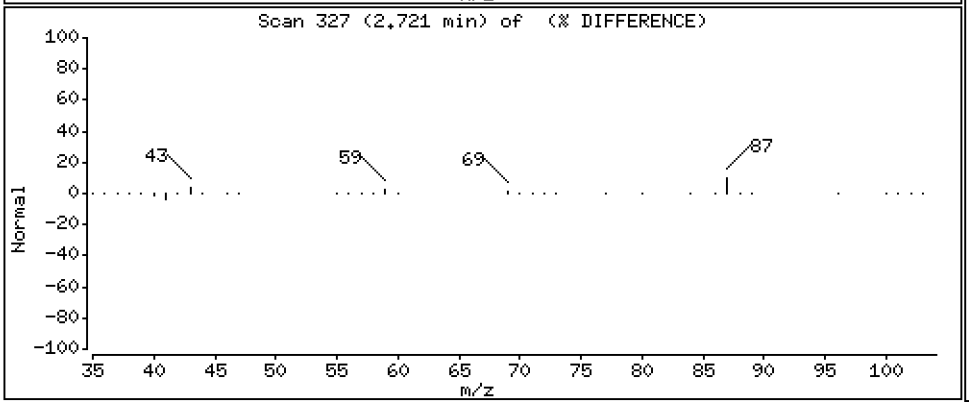
Column phase: DB-VRX Column diameter: 0.25

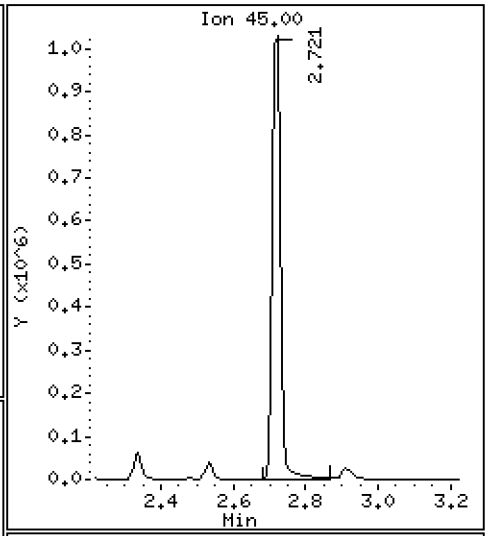
25 Diisopropyl ether Concentration: 51.9839 ug/L

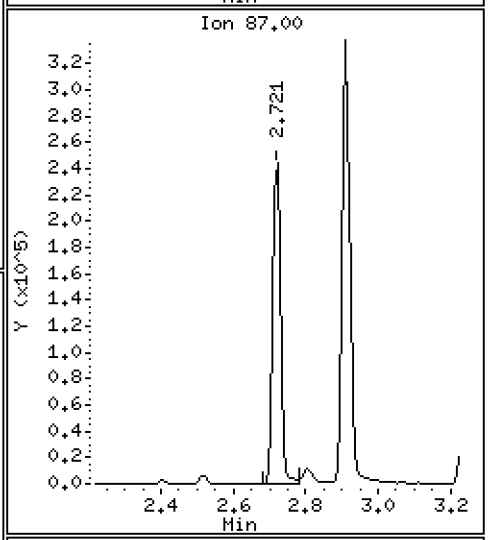


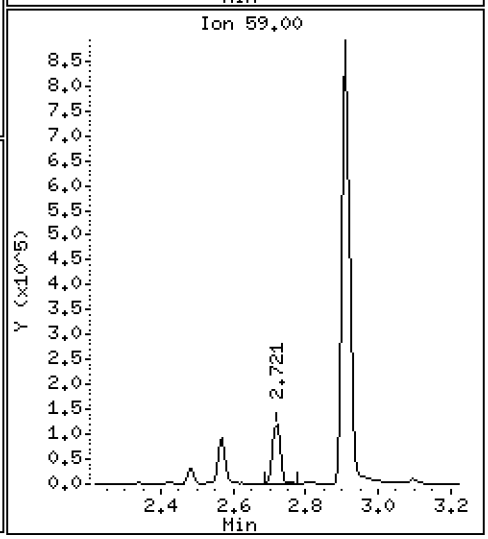












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 34

Date : 26-OCT-2016 09:18

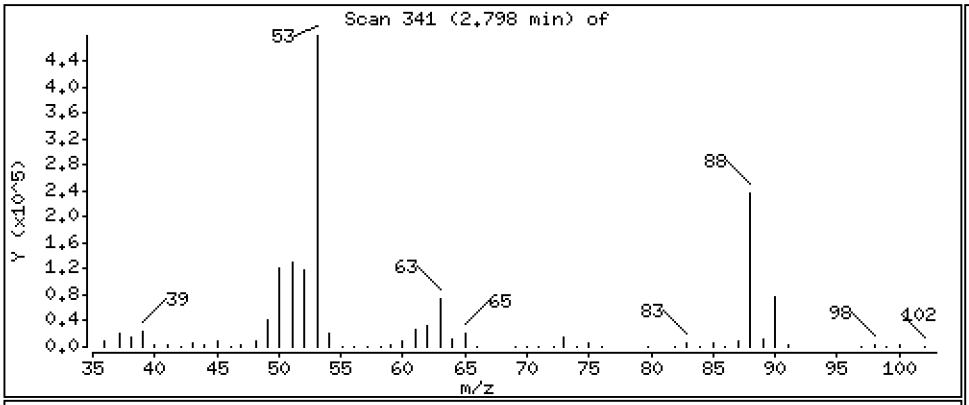
Client ID: Instrument: ms03.i

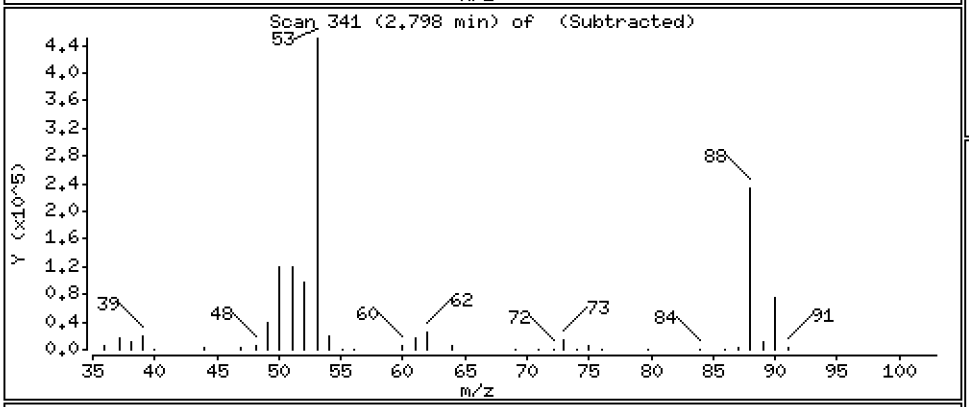
Sample Info: 1800;;1;2;4;;;

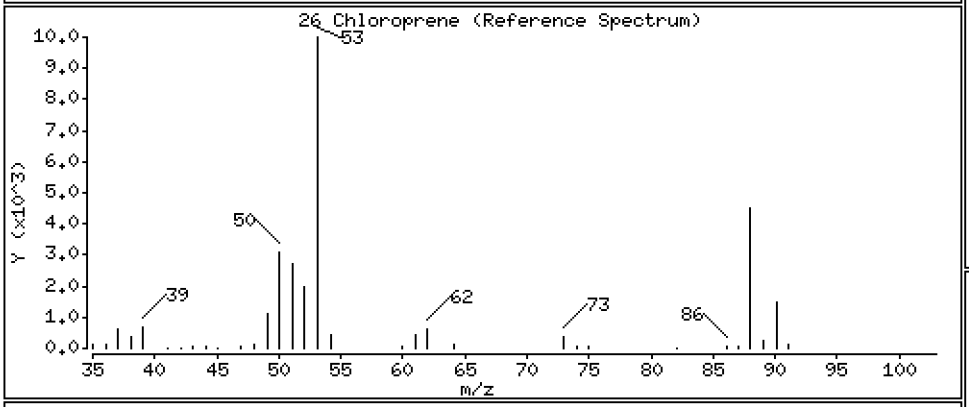
Purge Volume: 5.0 Operator: DD

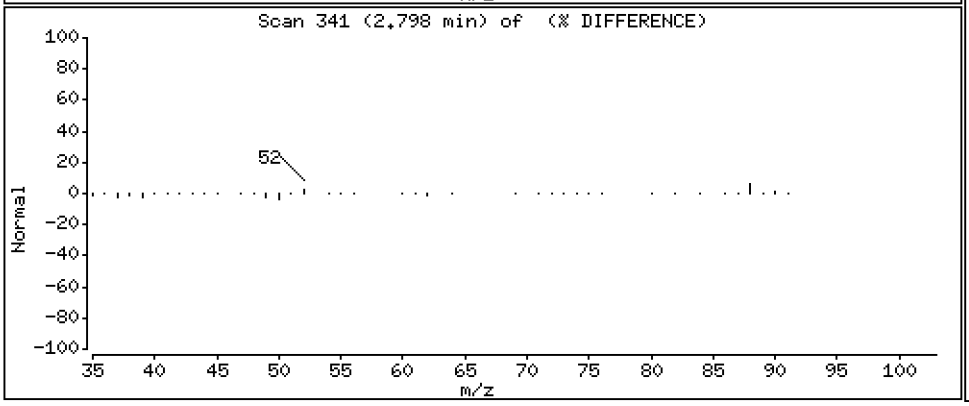
Column phase: DB-VRX Column diameter: 0.25

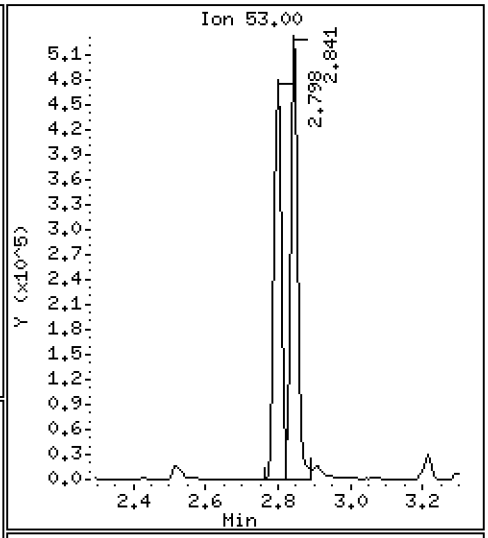
26 Chloroprene Concentration: 48.9429 ug/L

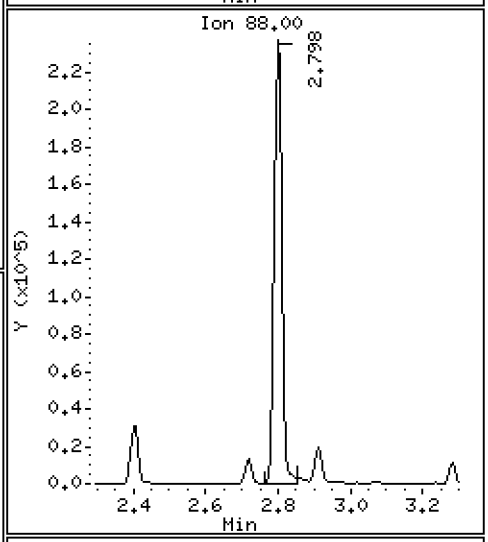


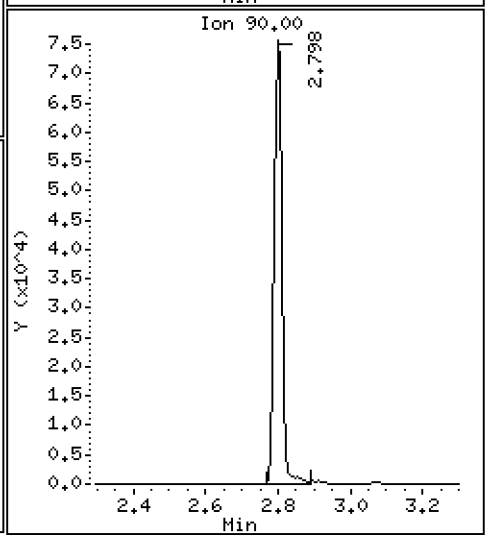












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 35

Date : 26-OCT-2016 09:18

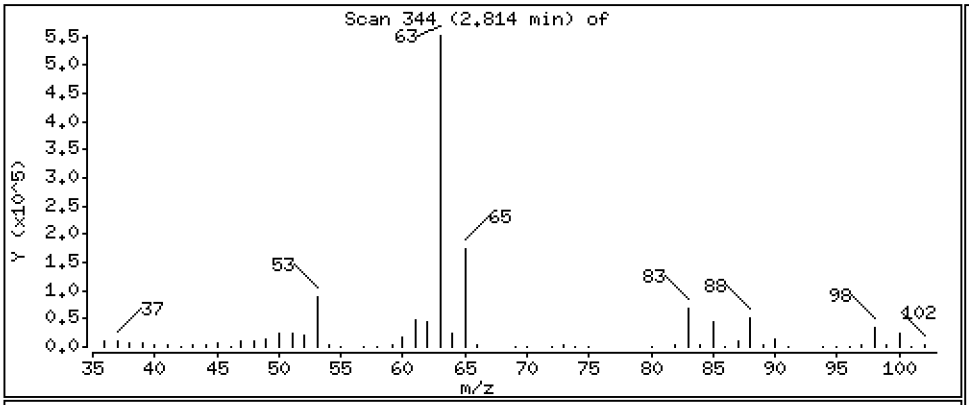
Client ID: Instrument: ms03.i

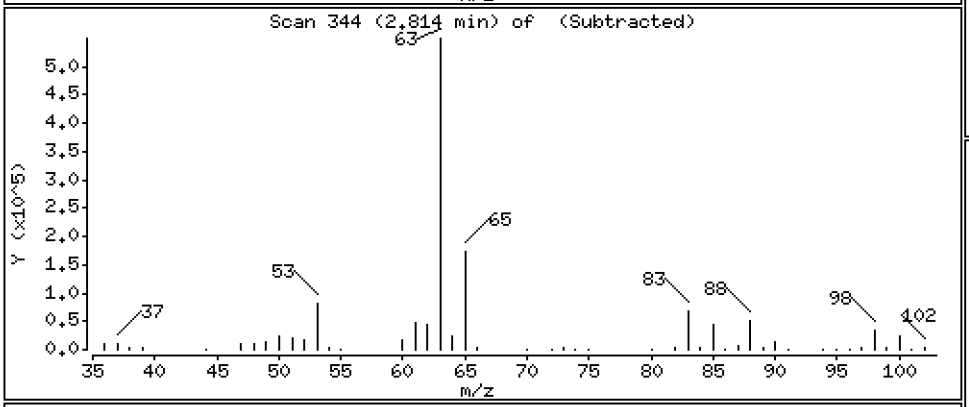
Sample Info: 1800;;1;2;4;;;

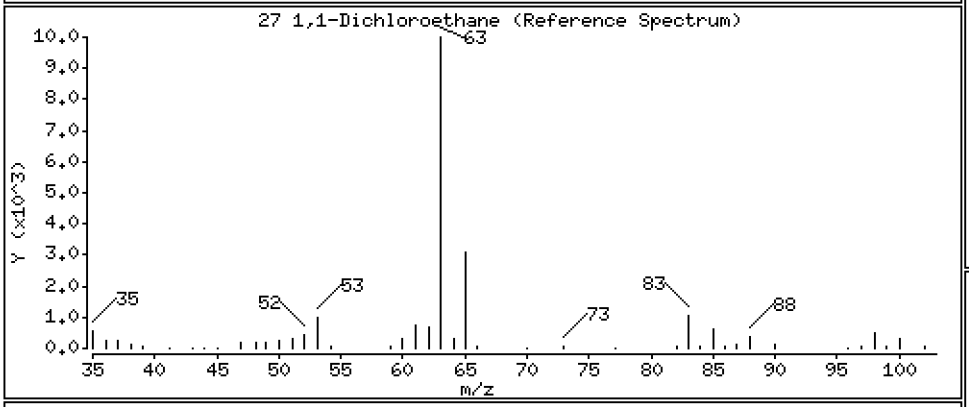
Purge Volume: 5.0 Operator: DD

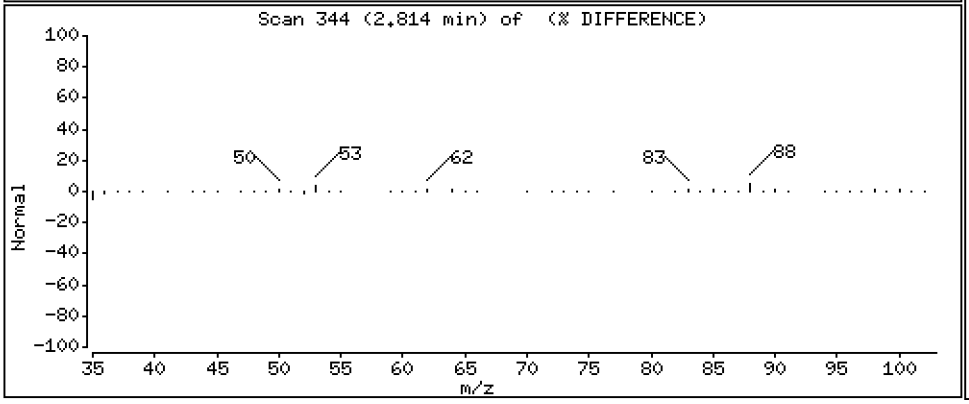
Column phase: DB-VRX Column diameter: 0.25

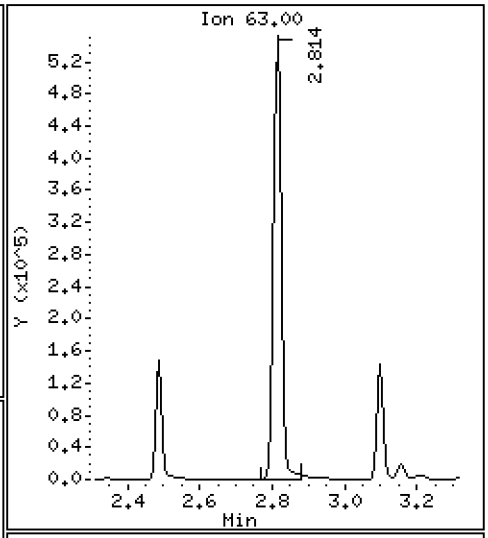
27 1,1-Dichloroethane Concentration: 46.4085 ug/L

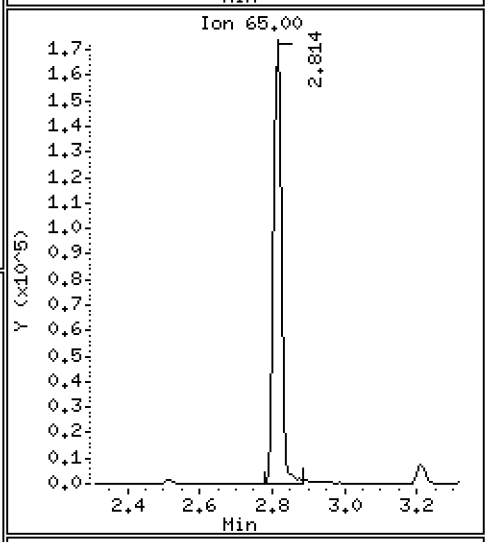


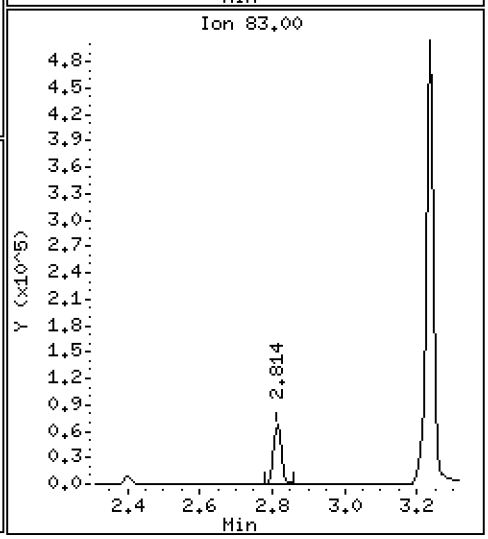












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 36

Date : 26-OCT-2016 09:18

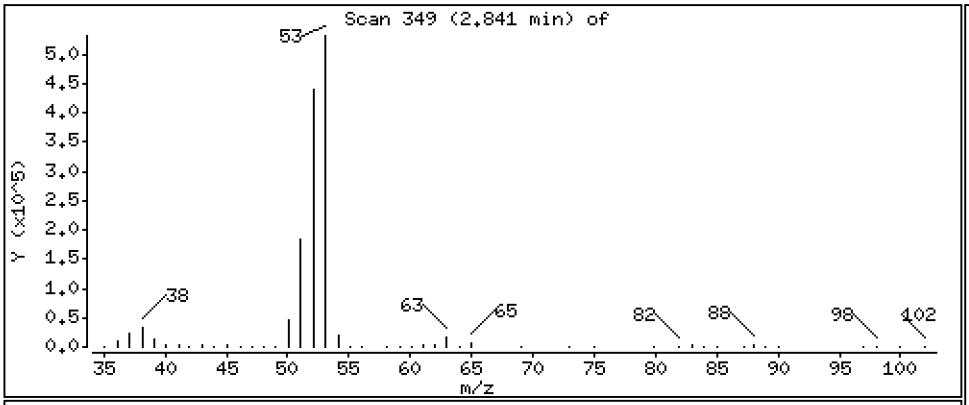
Client ID: Instrument: ms03.i

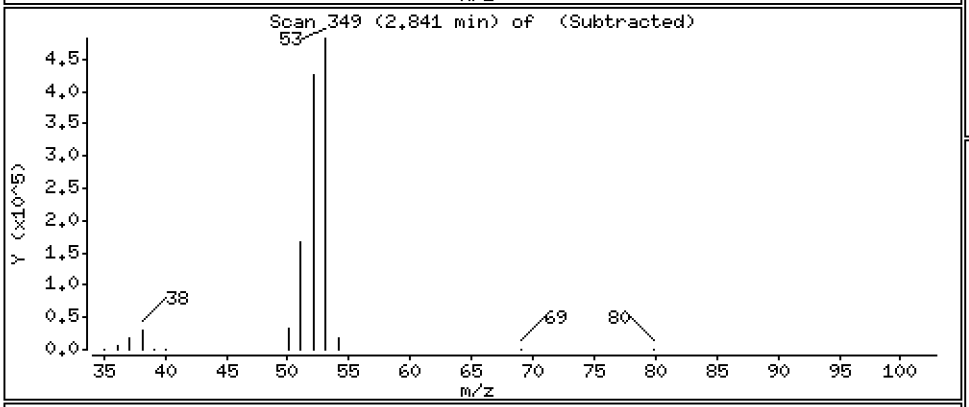
Sample Info: 1800;;1;2;4;;;

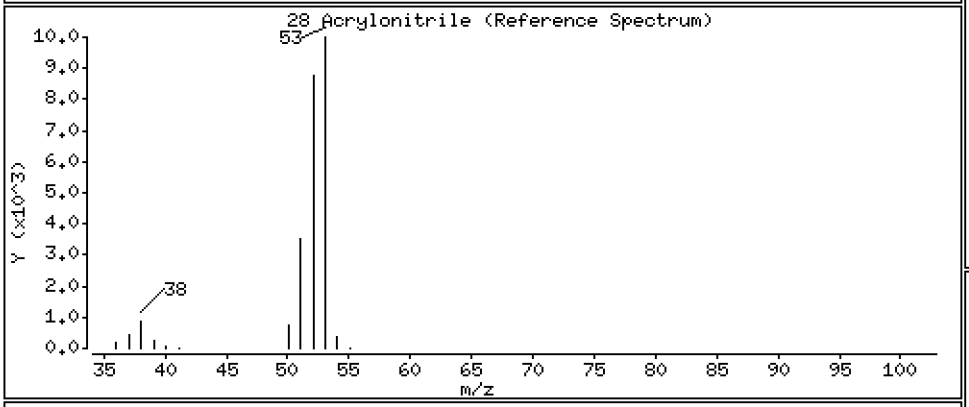
Purge Volume: 5.0 Operator: DD

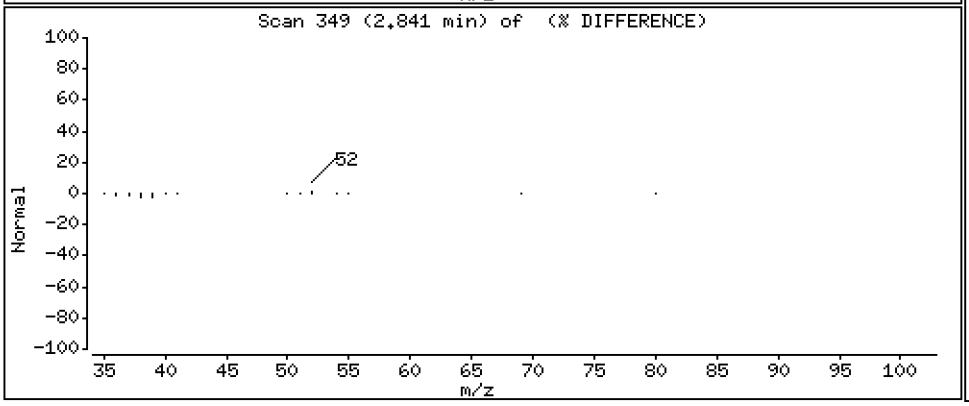
Column phase: DB-VRX Column diameter: 0.25

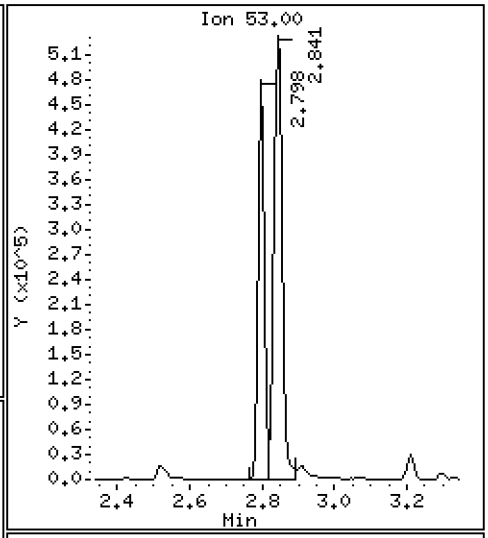
28 Acrylonitrile Concentration: 264.670 ug/L

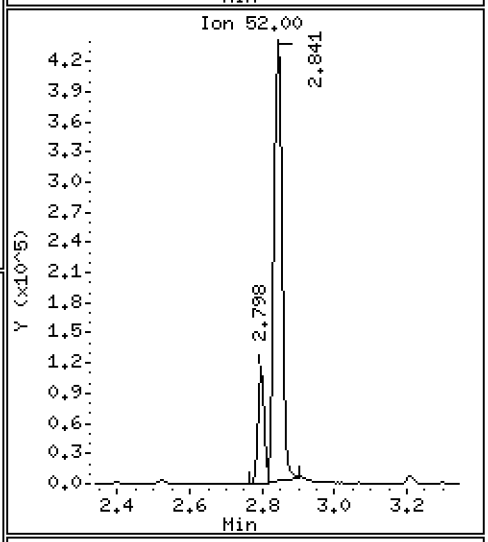


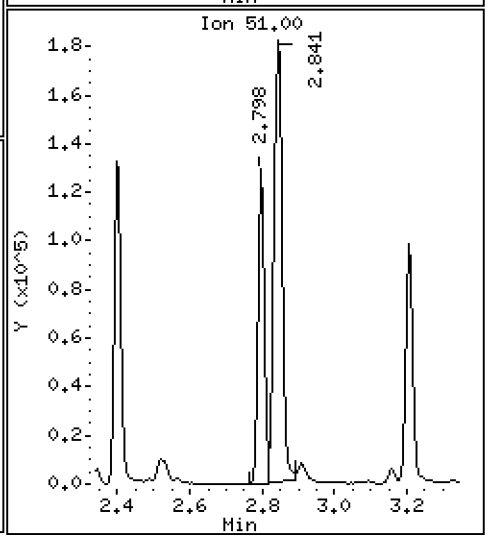












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 37

Date : 26-OCT-2016 09:18

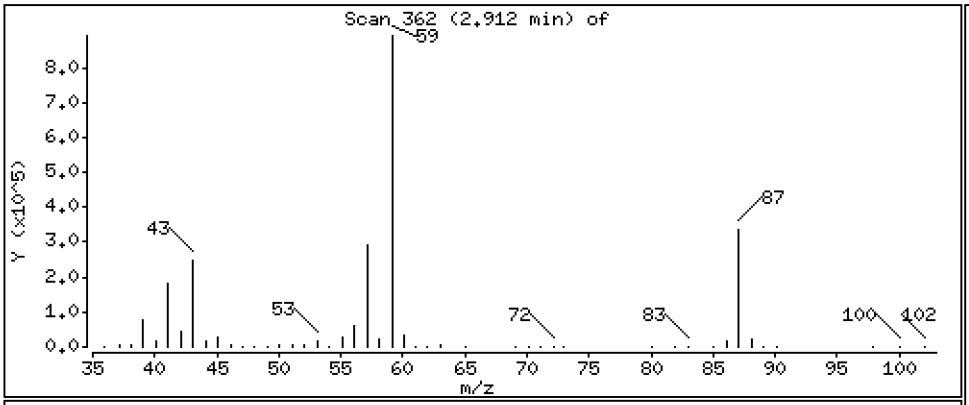
Client ID: Instrument: ms03.i

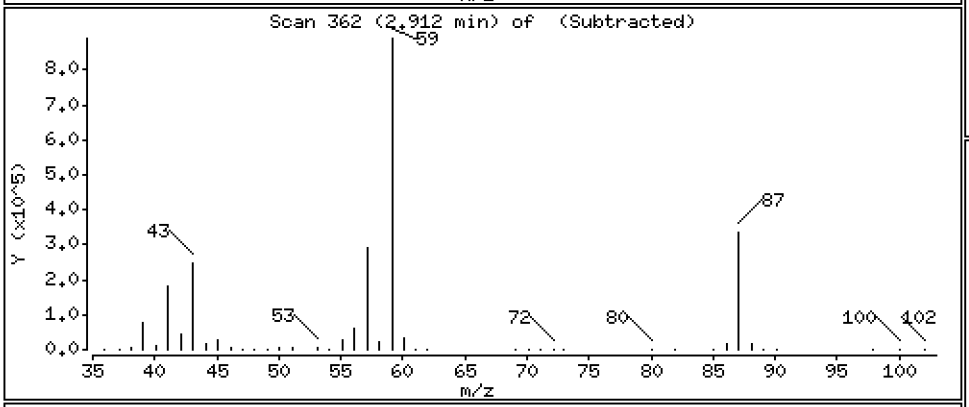
Sample Info: 1800;;1;2;4;;;

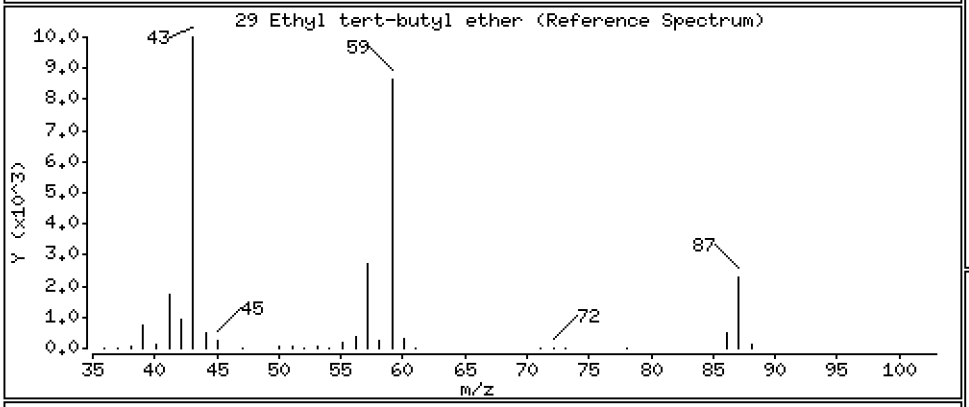
Purge Volume: 5.0 Operator: DD

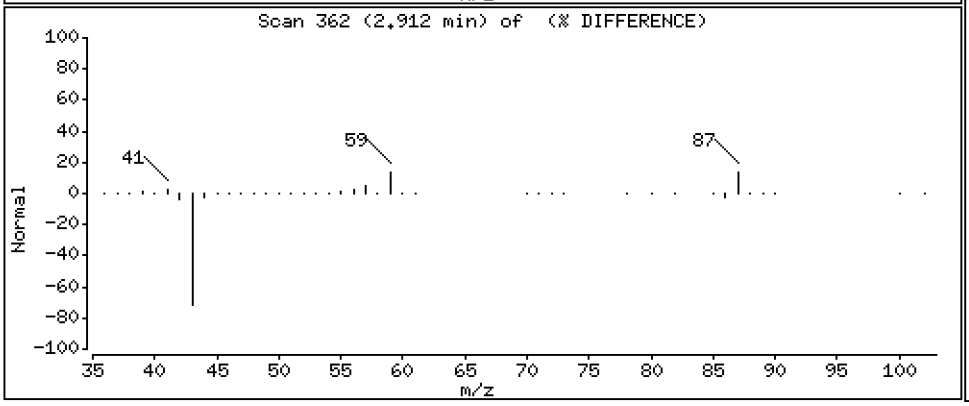
Column phase: DB-VRX Column diameter: 0.25

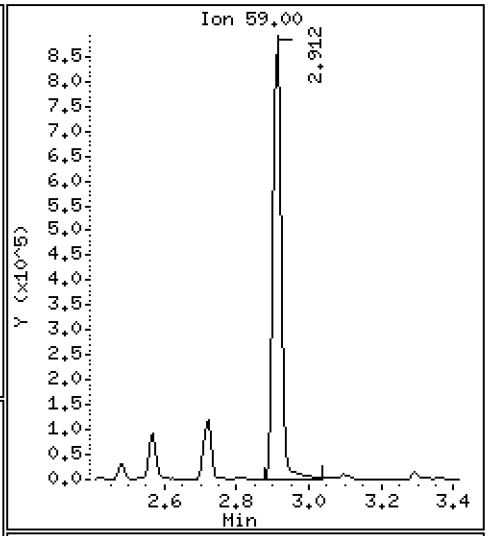
29 Ethyl tert-butyl ether Concentration: 52.4595 ug/L

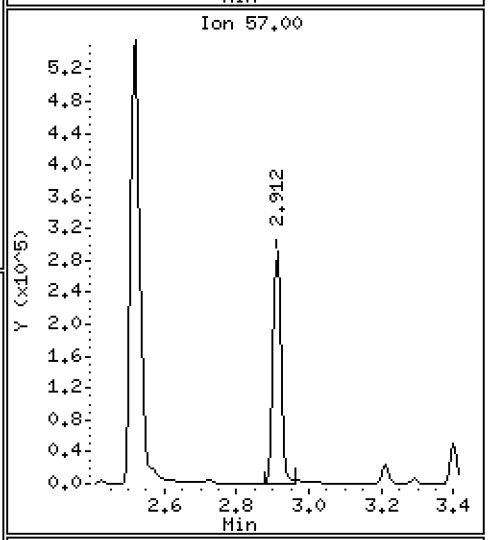


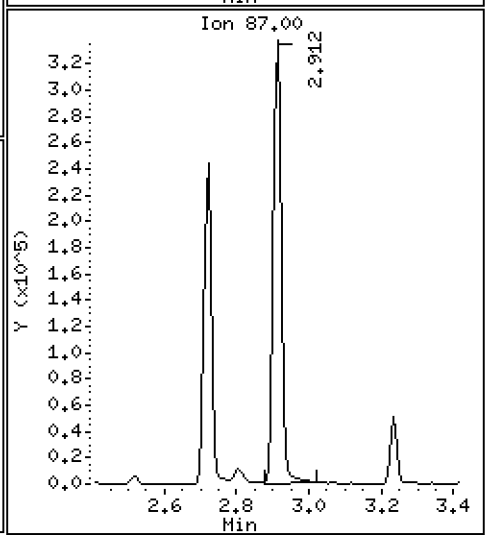












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 38

Date : 26-OCT-2016 09:18

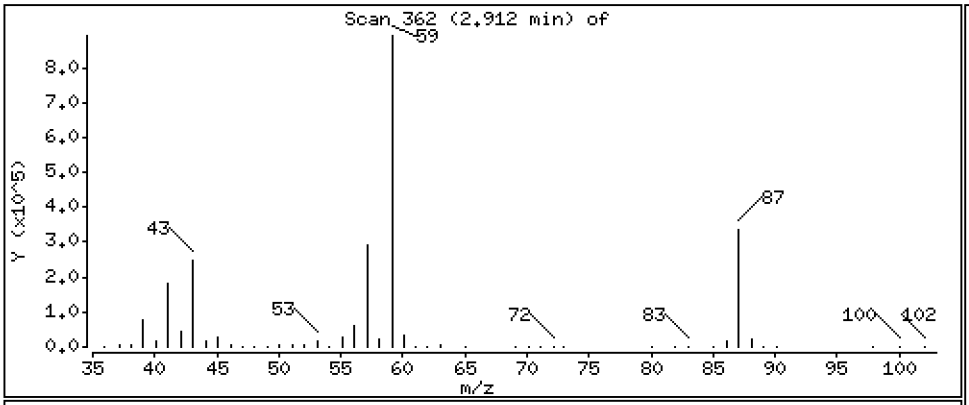
Client ID: Instrument: ms03.i

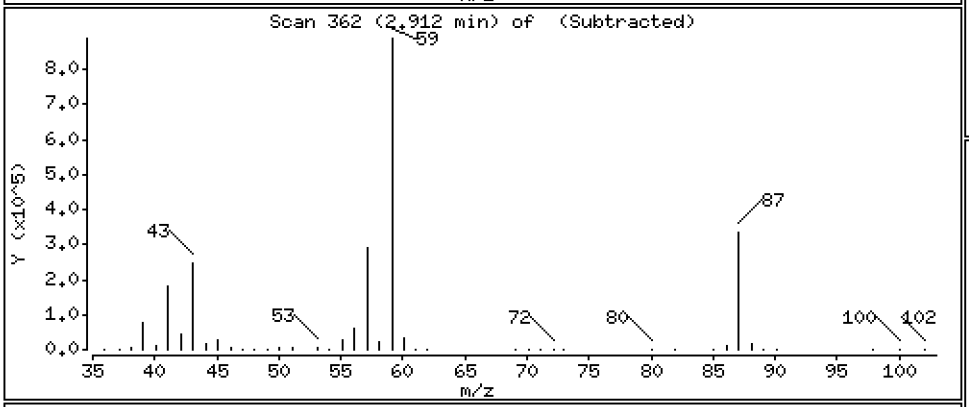
Sample Info: 1800;;1;2;4;;;

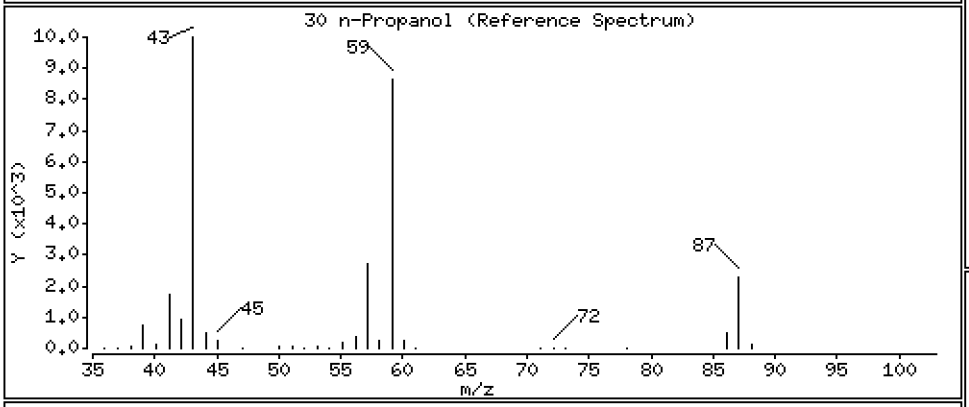
Purge Volume: 5.0 Operator: DD

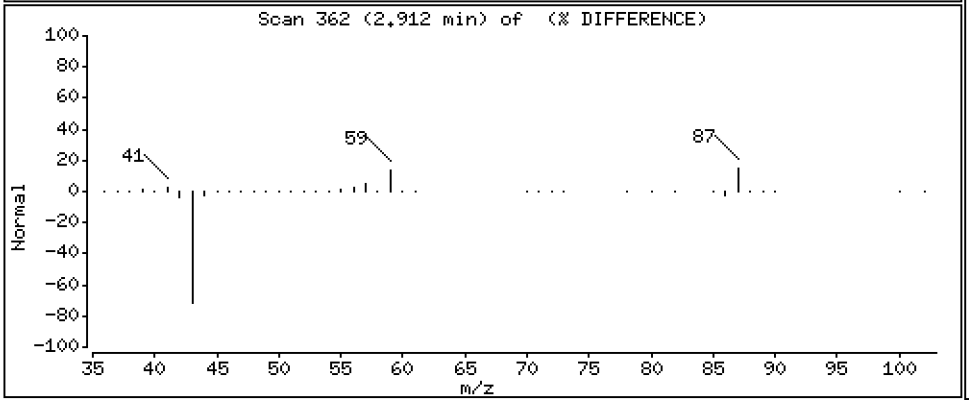
Column phase: DB-VRX Column diameter: 0.25

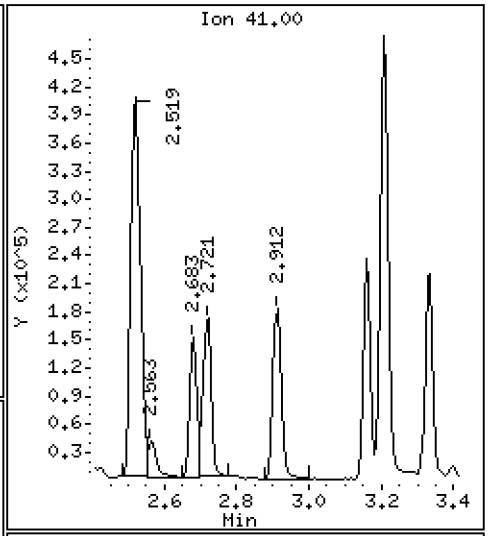
30 n-Propanol Concentration: 547.516 ug/L

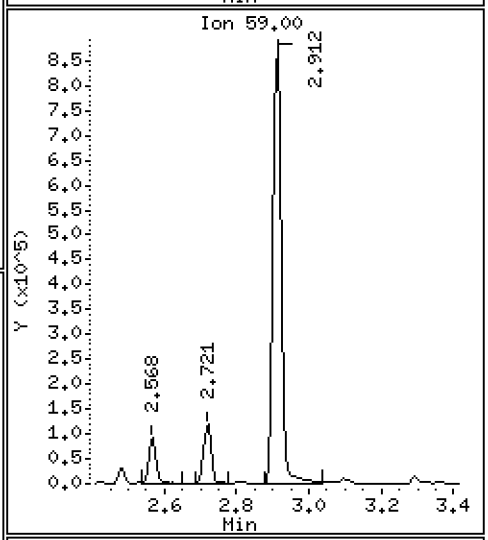


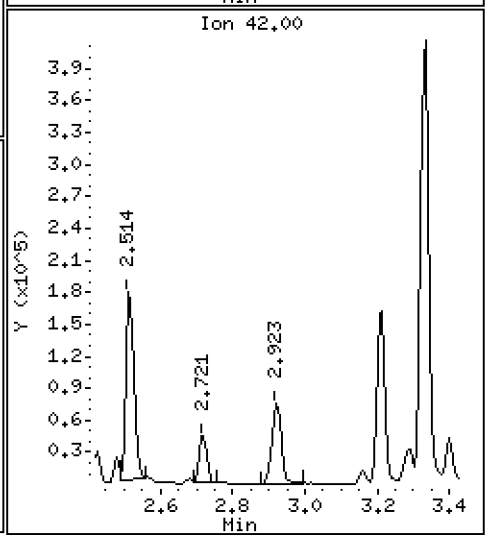












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 39

Date : 26-OCT-2016 09:18

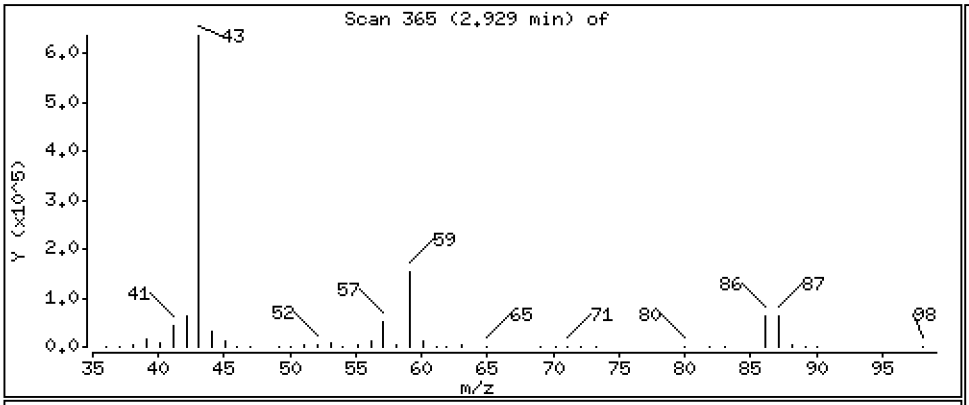
Client ID: Instrument: ms03.i

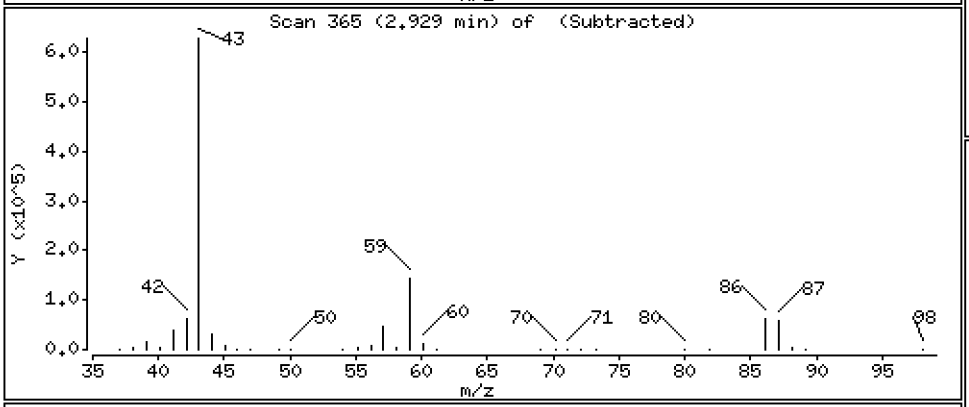
Sample Info: 1800;;1;2;4;;;

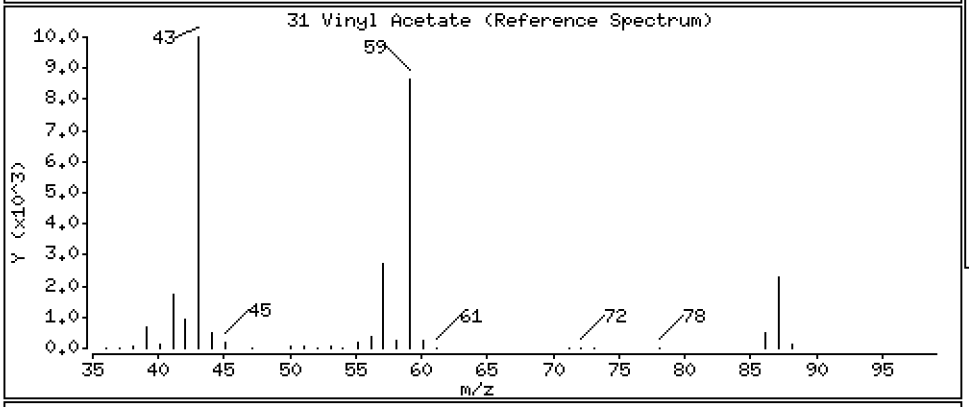
Purge Volume: 5.0 Operator: DD

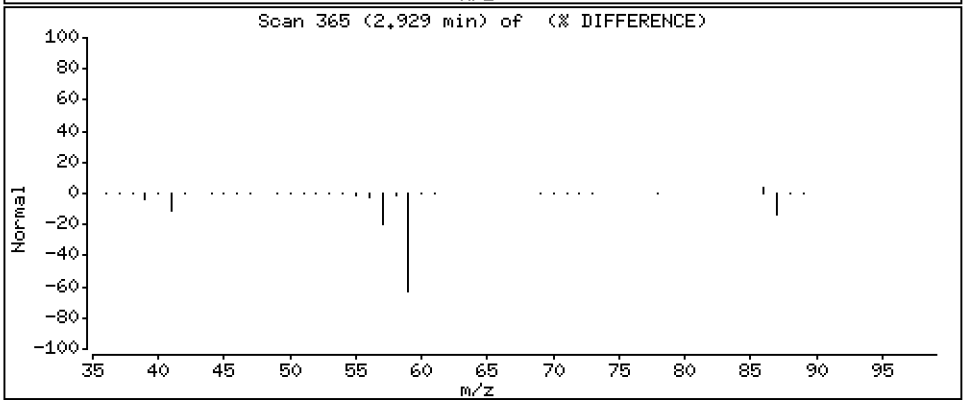
Column phase: DB-VRX Column diameter: 0.25

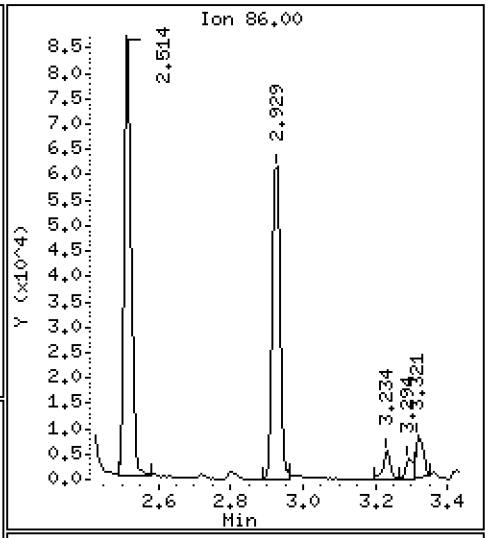
31 Vinyl Acetate Concentration: 45.8984 ug/L

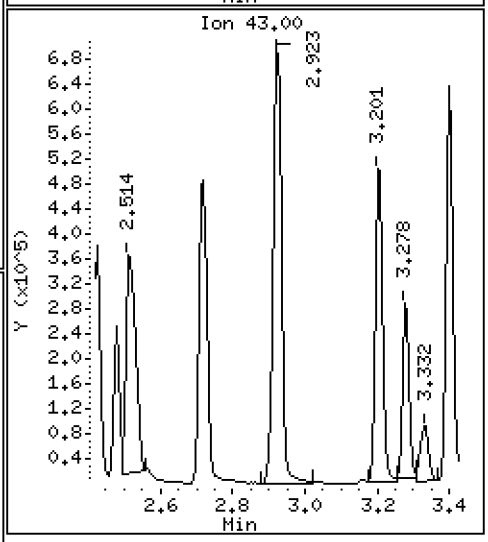












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 40

Date : 26-OCT-2016 09:18

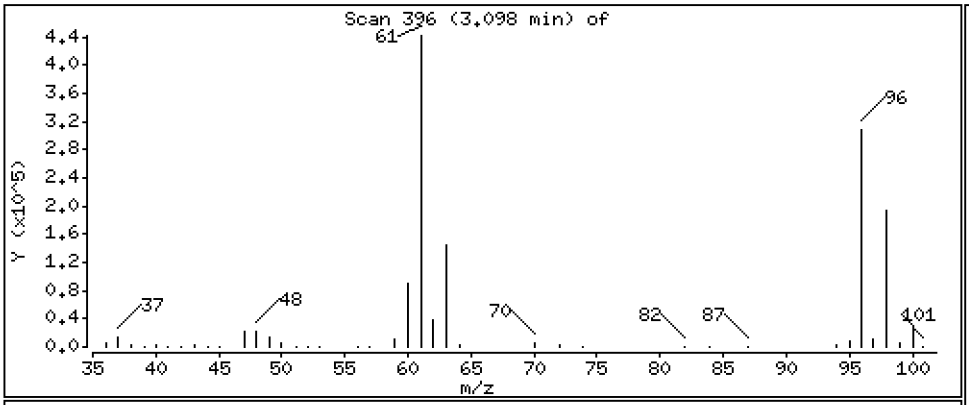
Client ID: Instrument: ms03.i

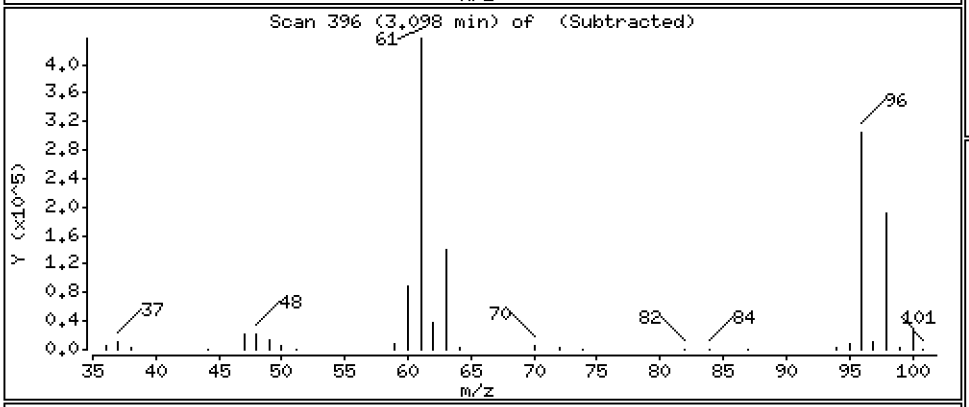
Sample Info: 1800;;1;2;4;;;

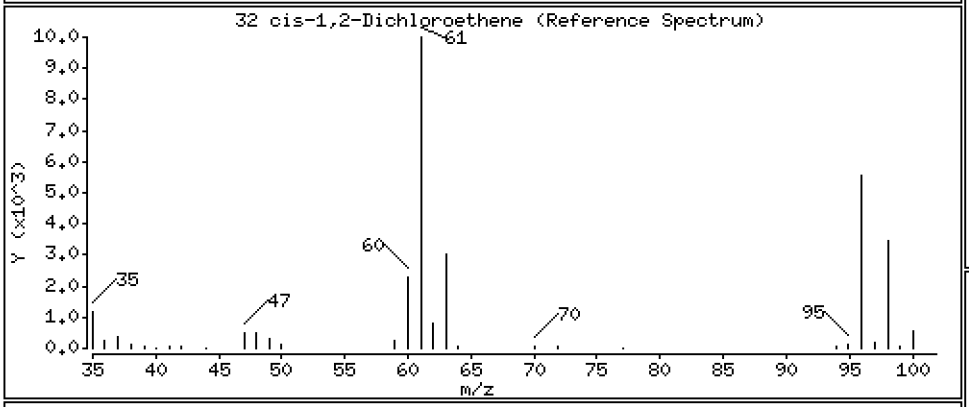
Purge Volume: 5.0 Operator: DD

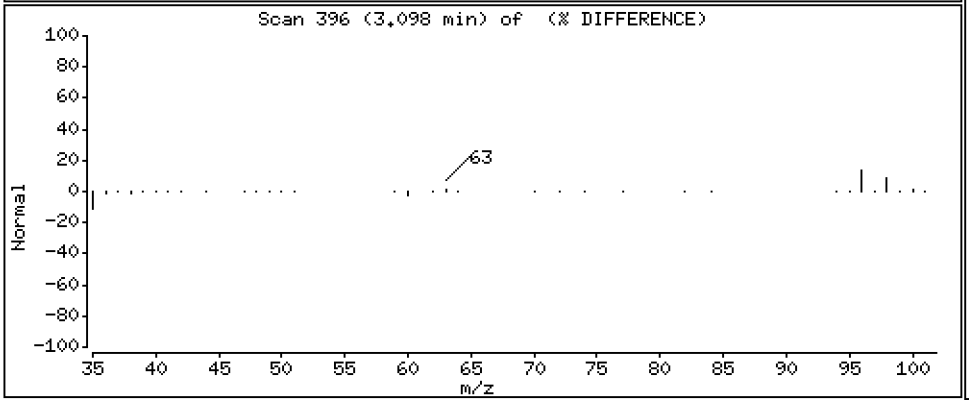
Column phase: DB-VRX Column diameter: 0.25

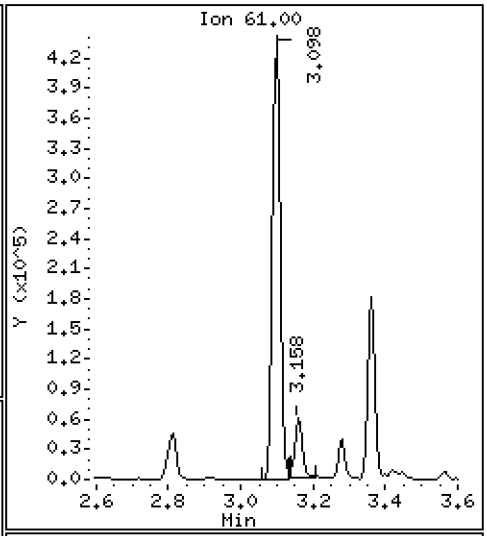
32 cis-1,2-Dichloroethene Concentration: 46.9502 ug/L

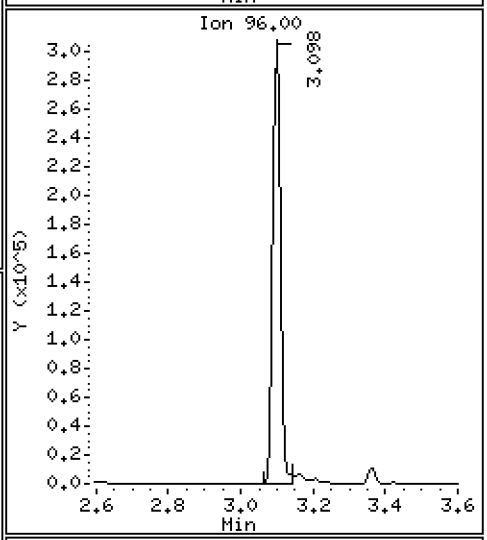


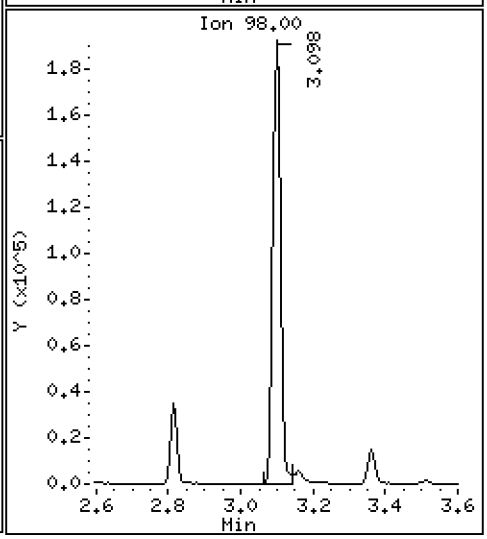












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 41

Date : 26-OCT-2016 09:18

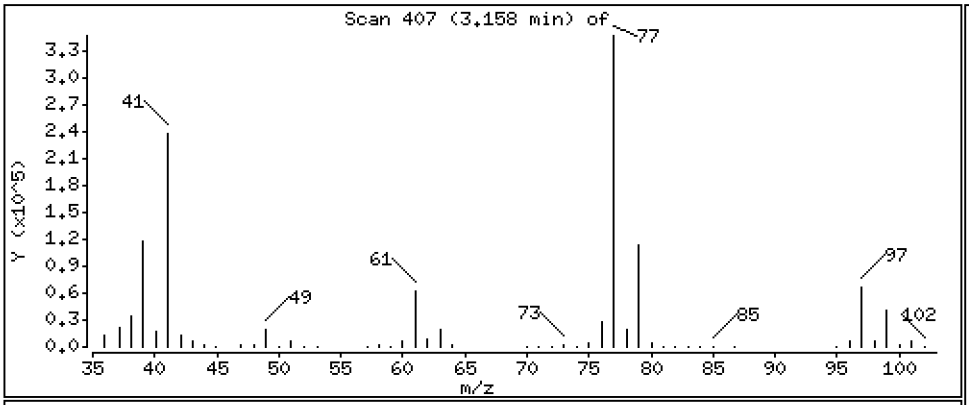
Client ID: Instrument: ms03.i

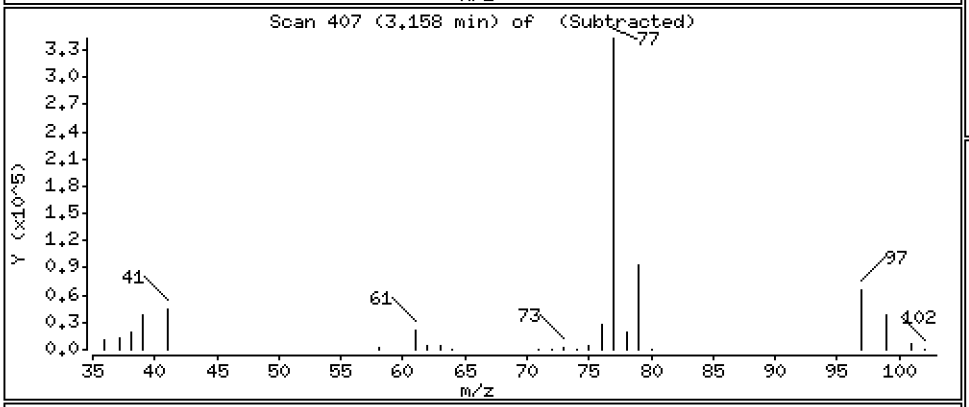
Sample Info: 1800;;1;2;4;;;

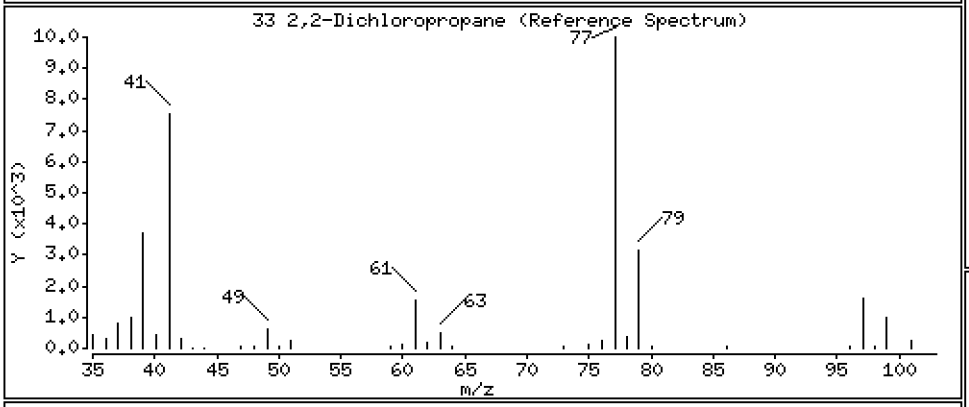
Purge Volume: 5.0 Operator: DD

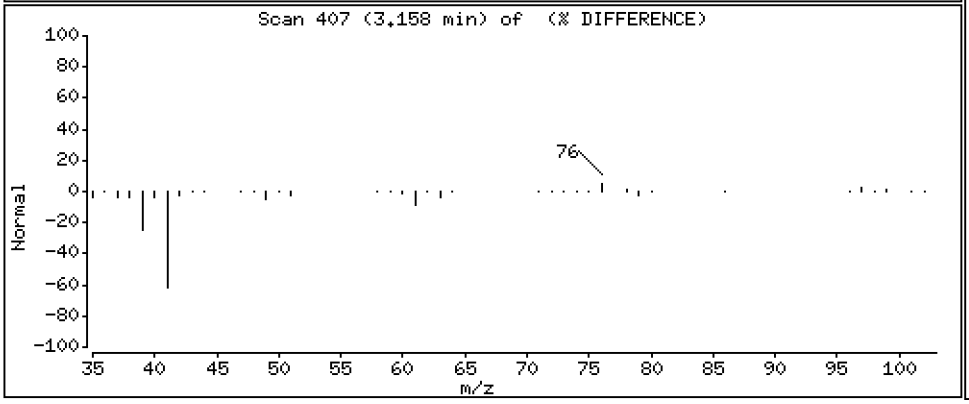
Column phase: DB-VRX Column diameter: 0.25

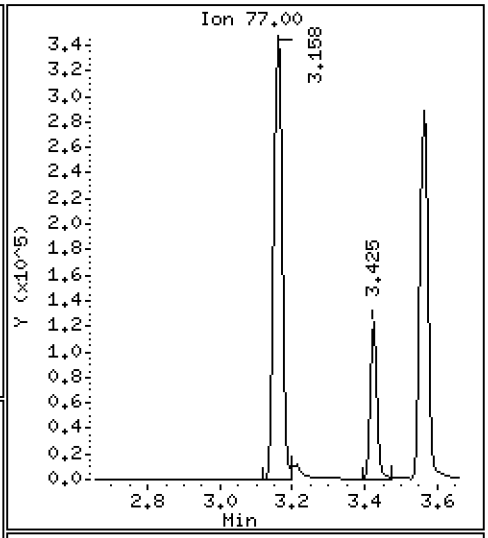
33 2,2-Dichloropropane Concentration: 51.2464 ug/L

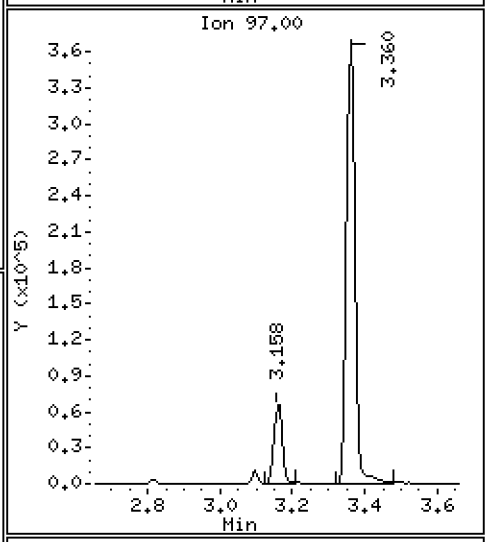


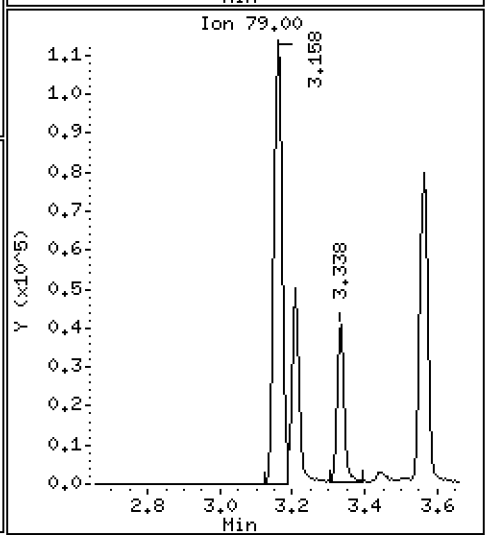












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 42

Date : 26-OCT-2016 09:18

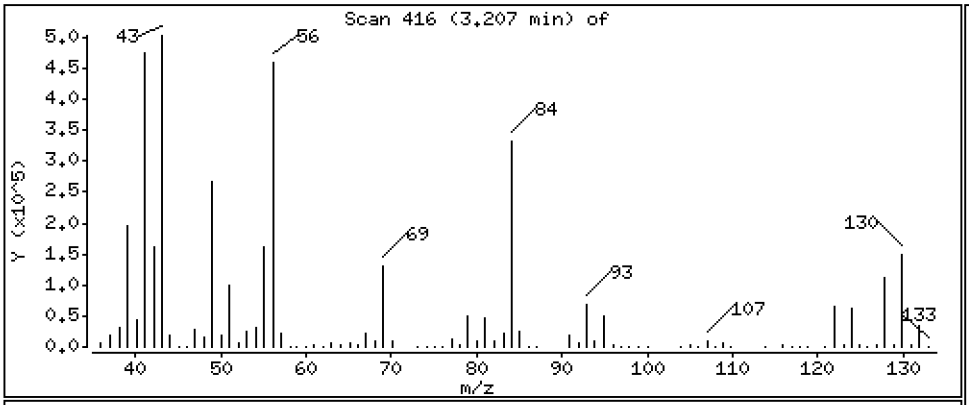
Client ID: Instrument: ms03.i

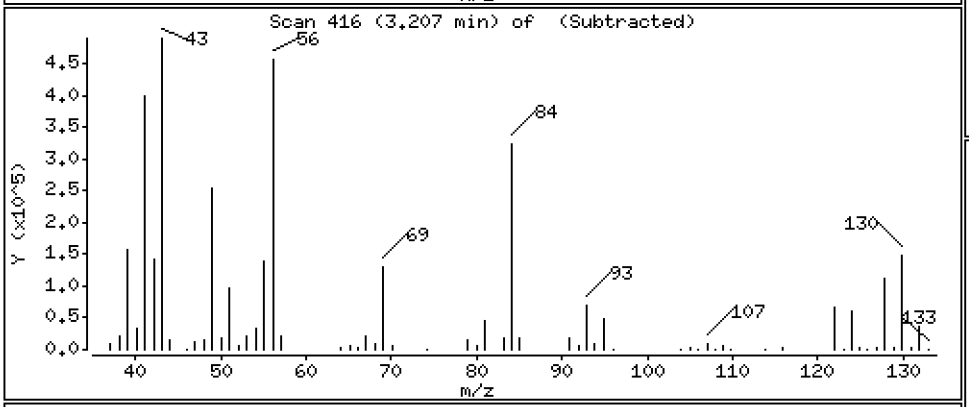
Sample Info: 1800;;1;2;4;;;

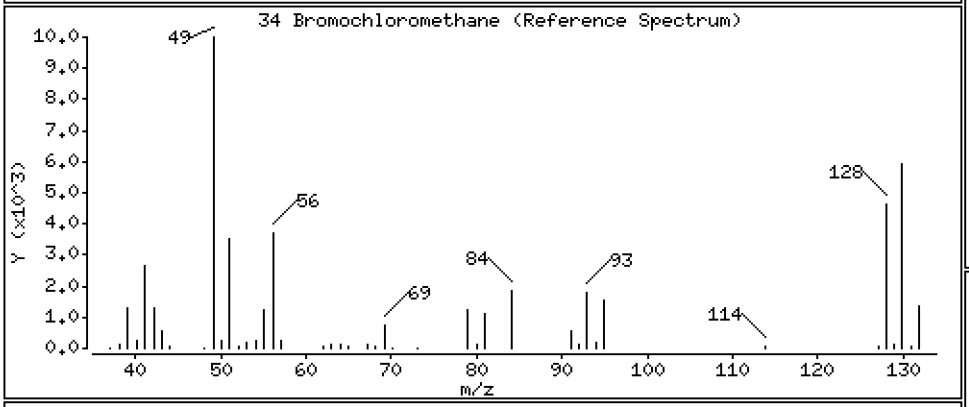
Purge Volume: 5.0 Operator: DD

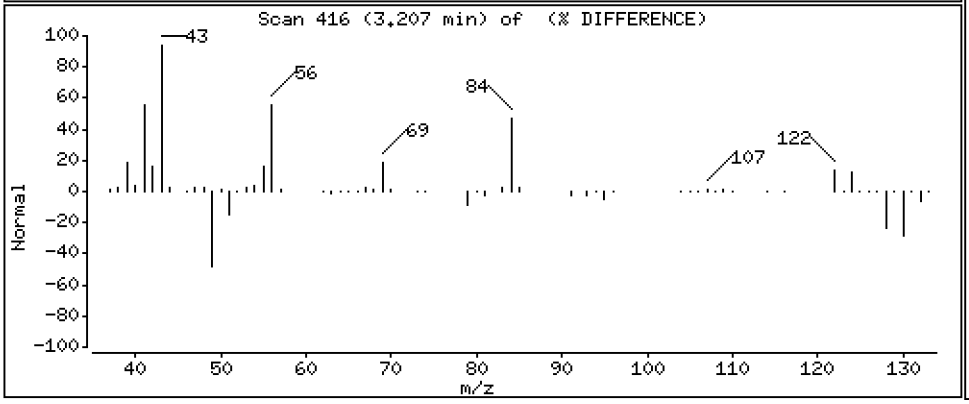
Column phase: DB-VRX Column diameter: 0.25

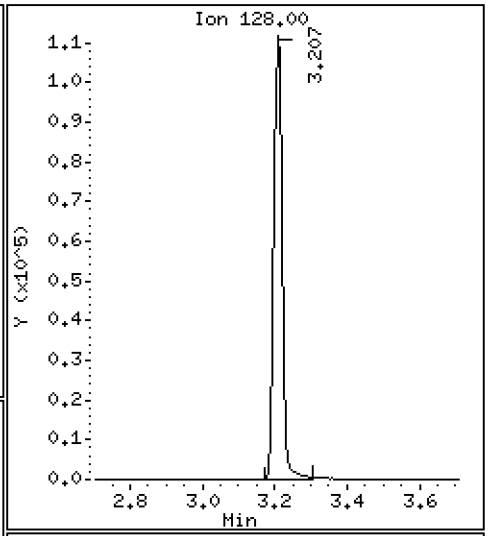
34 Bromochloromethane Concentration: 47.0001 ug/L

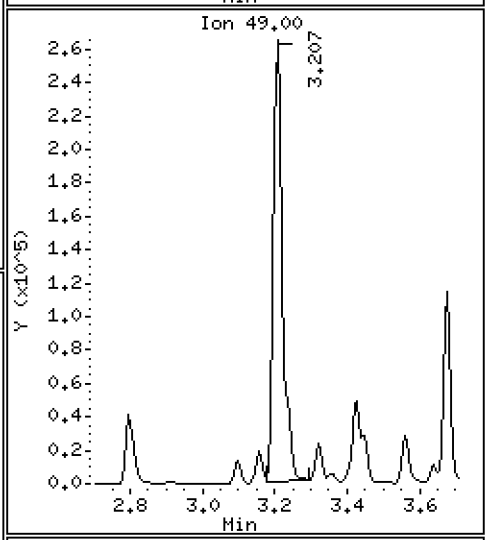


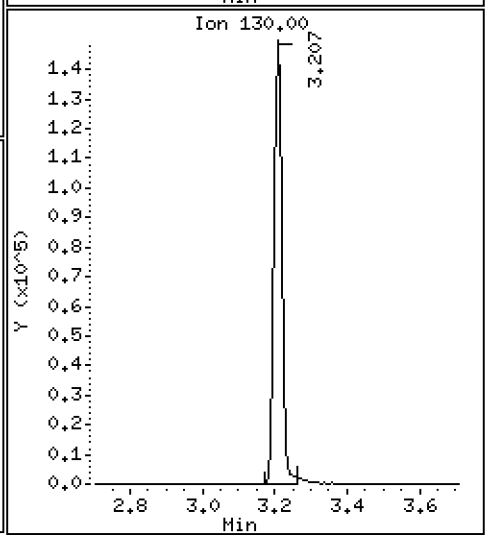












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 43

Date : 26-OCT-2016 09:18

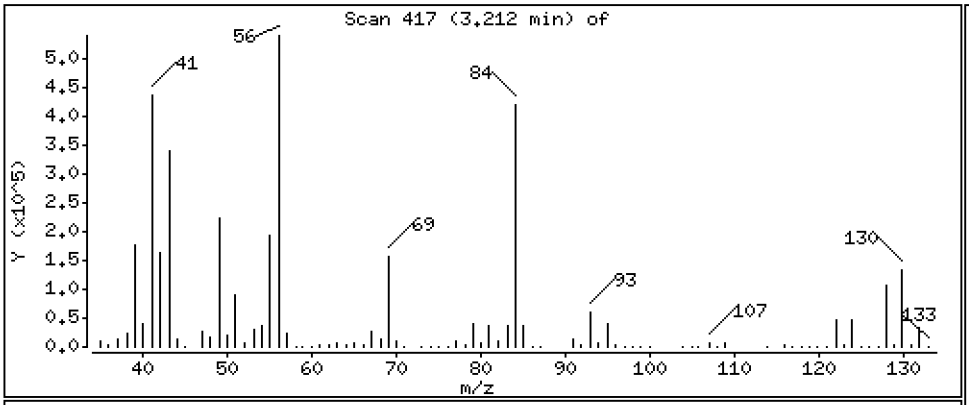
Client ID: Instrument: ms03.i

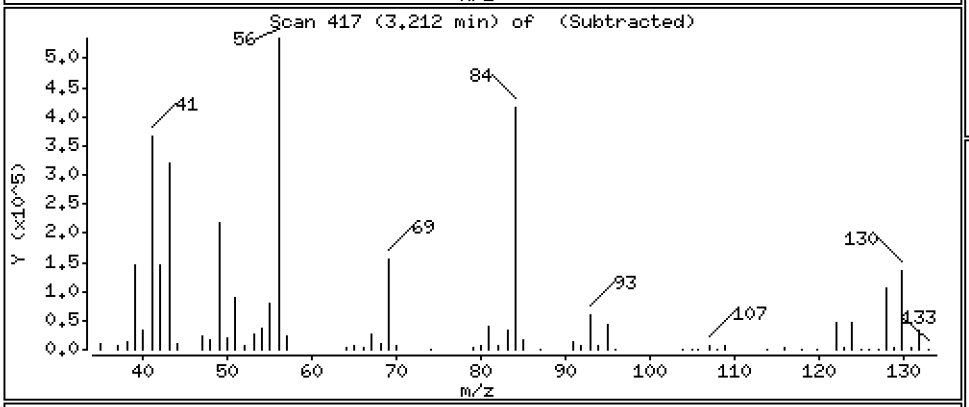
Sample Info: 1800;;1;2;4;;;

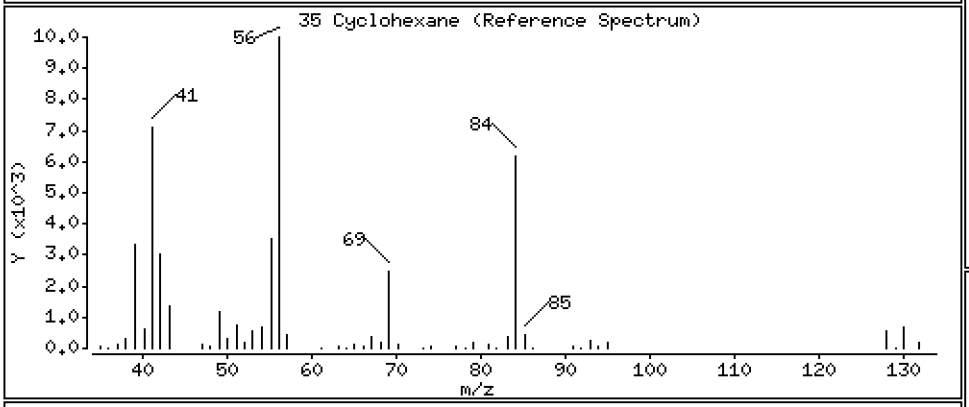
Purge Volume: 5.0 Operator: DD

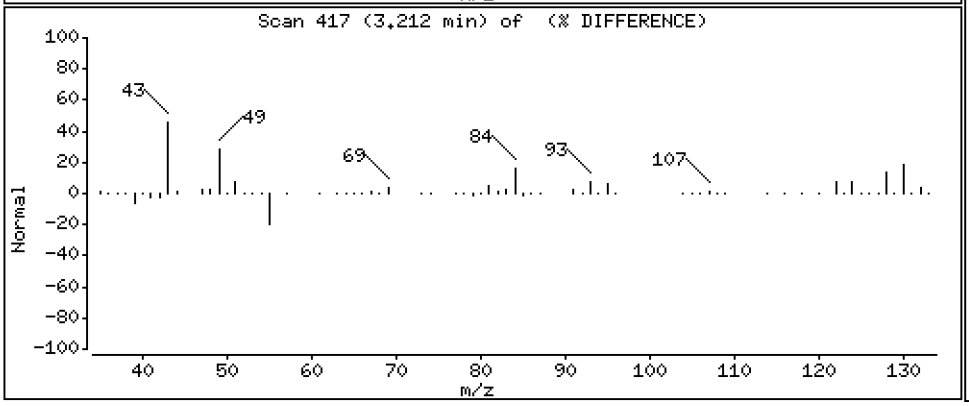
Column phase: DB-VRX Column diameter: 0.25

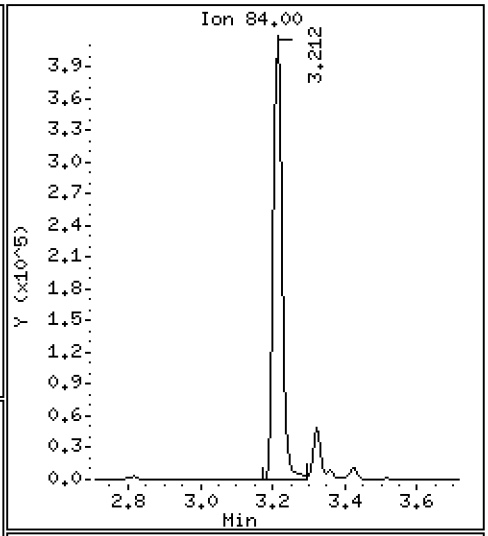
35 Cyclohexane Concentration: 47.7805 ug/L

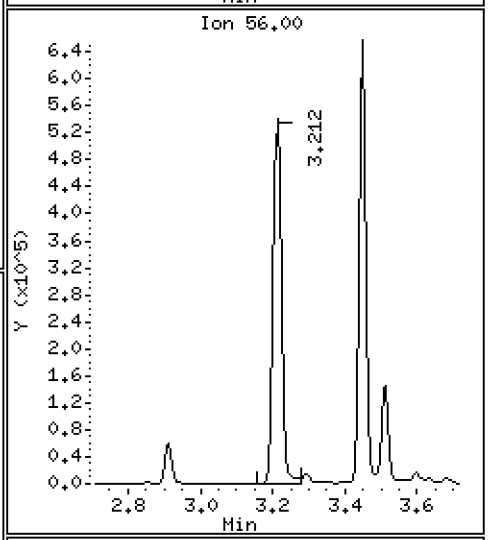


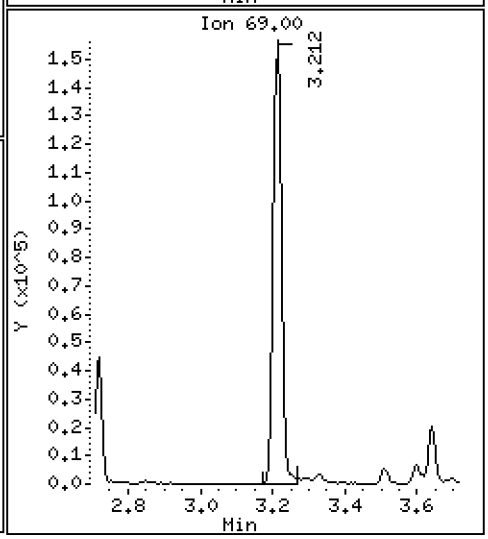












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 44

Date : 26-OCT-2016 09:18

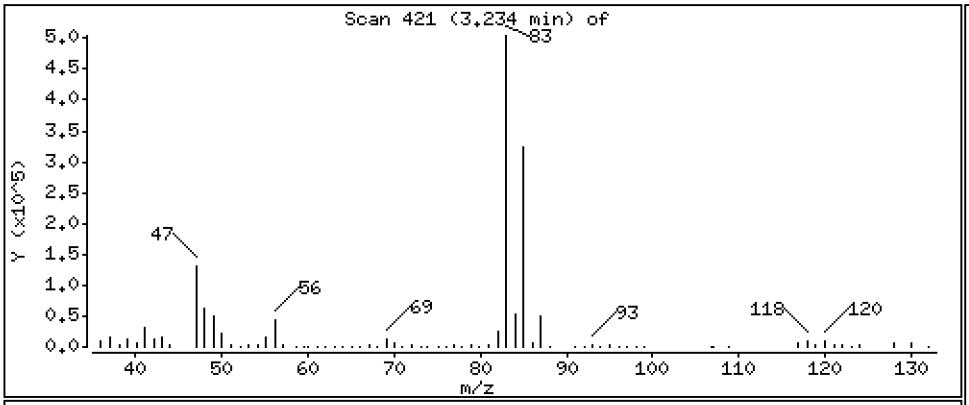
Client ID: Instrument: ms03.i

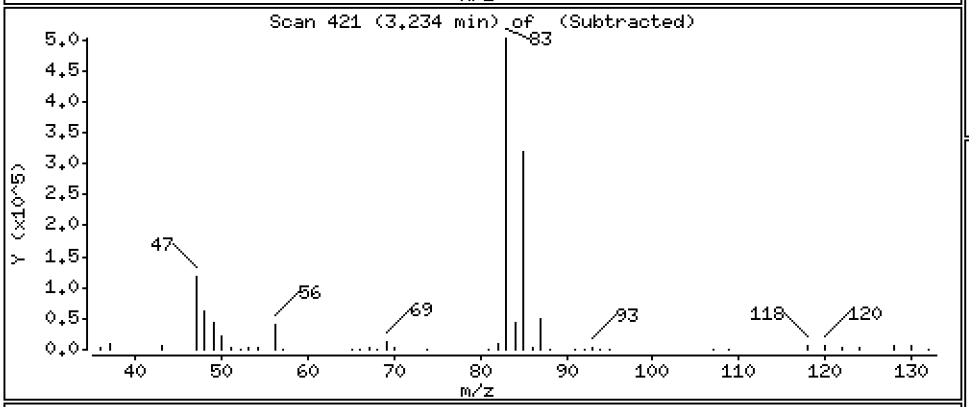
Sample Info: 1800;;1;2;4;;;

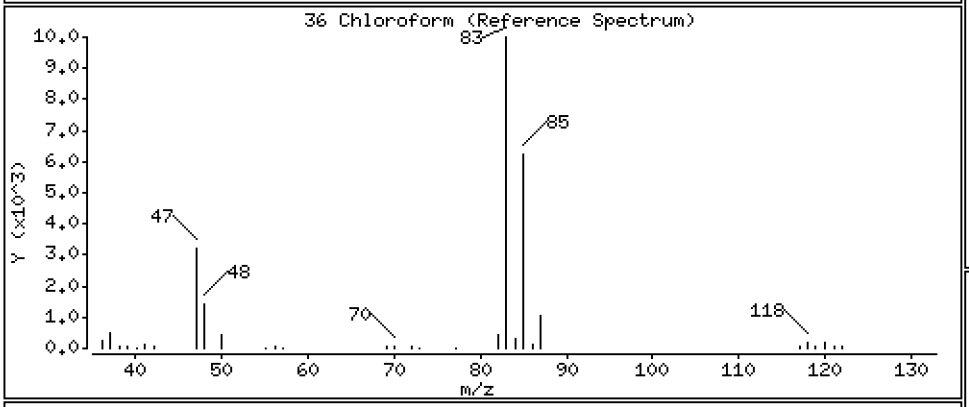
Purge Volume: 5.0 Operator: DD

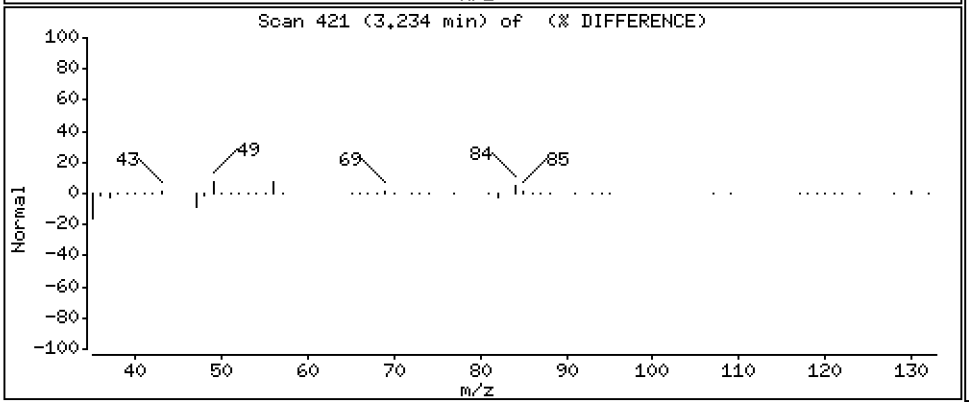
Column phase: DB-VRX Column diameter: 0.25

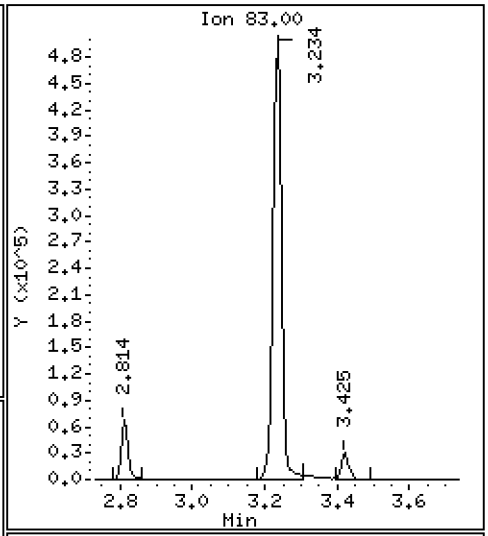
36 Chloroform Concentration: 49.7634 ug/L

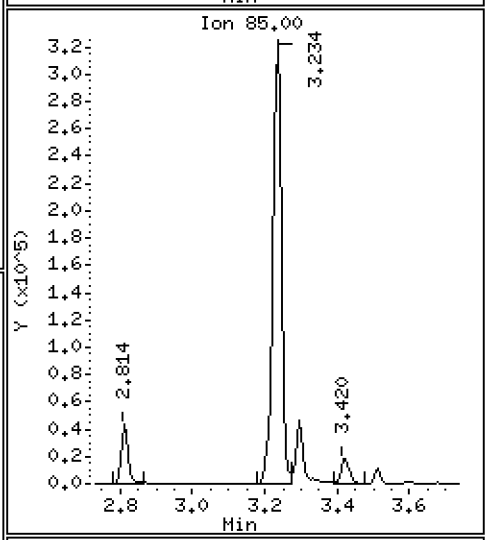


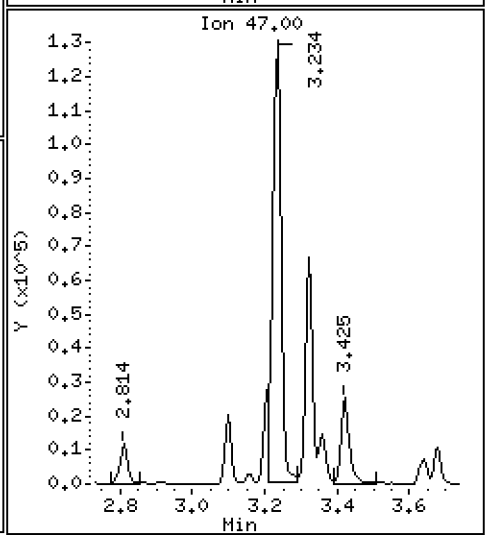












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 45

Date : 26-OCT-2016 09:18

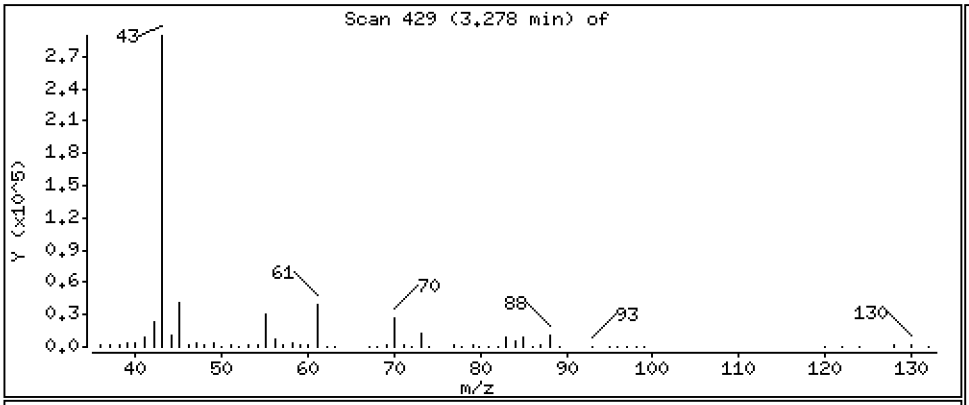
Client ID: Instrument: ms03.i

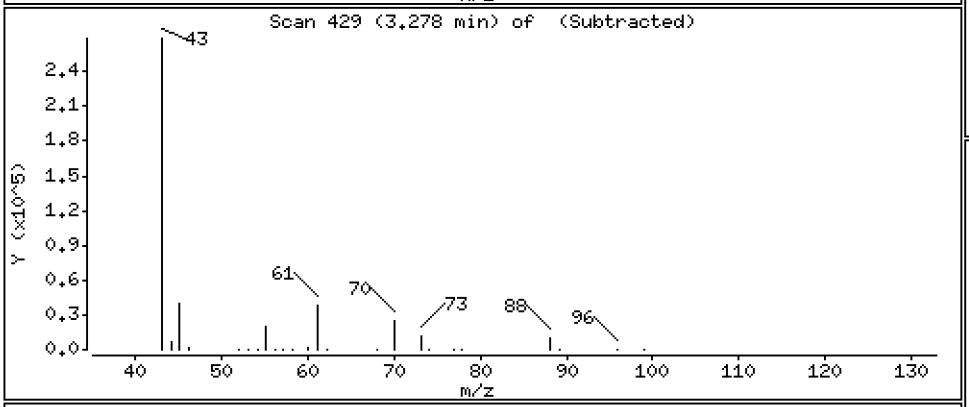
Sample Info: 1800;;1;2;4;;;

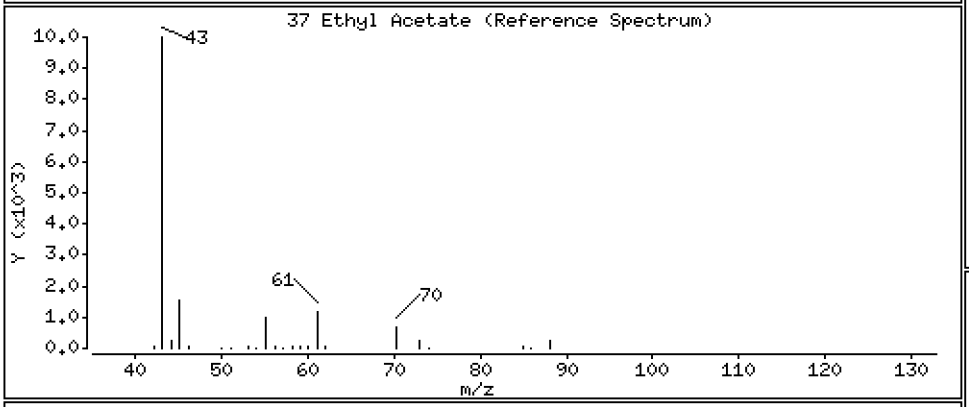
Purge Volume: 5.0 Operator: DD

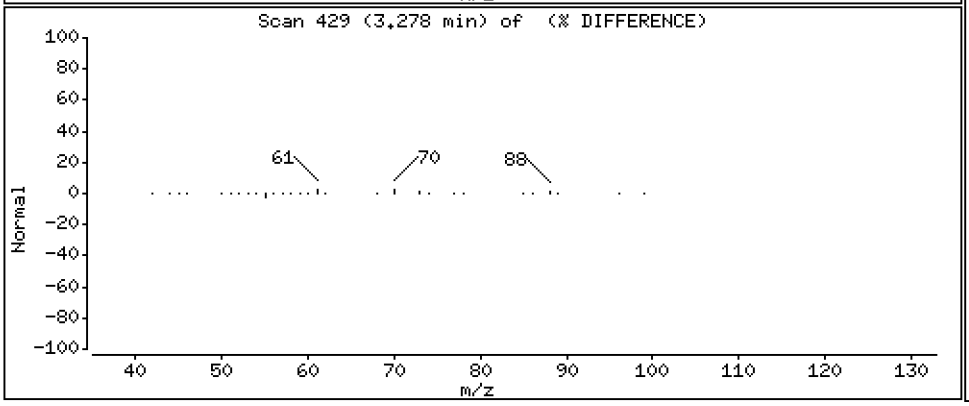
Column phase: DB-VRX Column diameter: 0.25

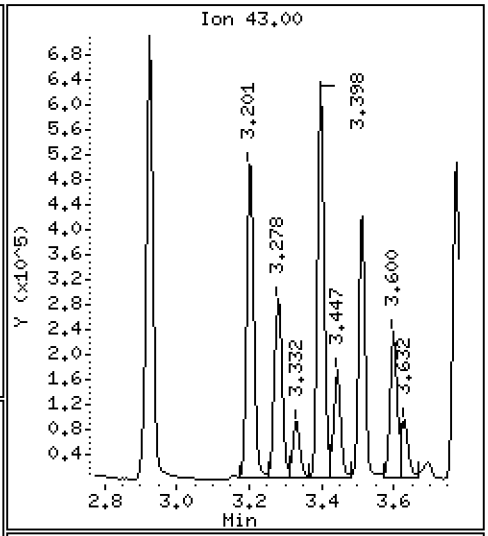
37 Ethyl Acetate Concentration: 54.8353 ug/L

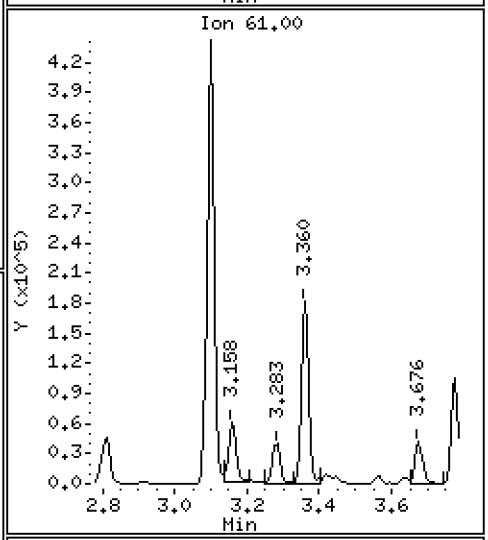


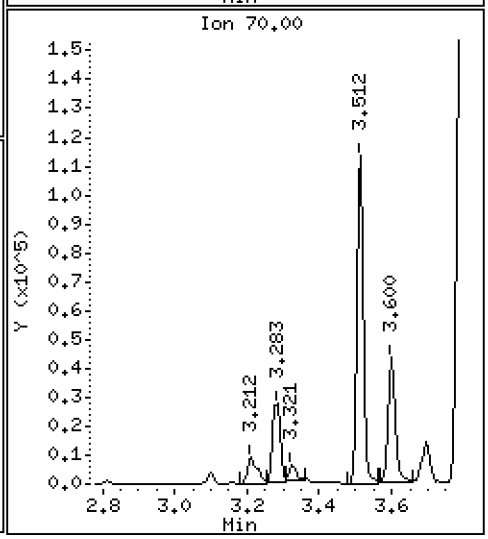












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 46

Date : 26-OCT-2016 09:18

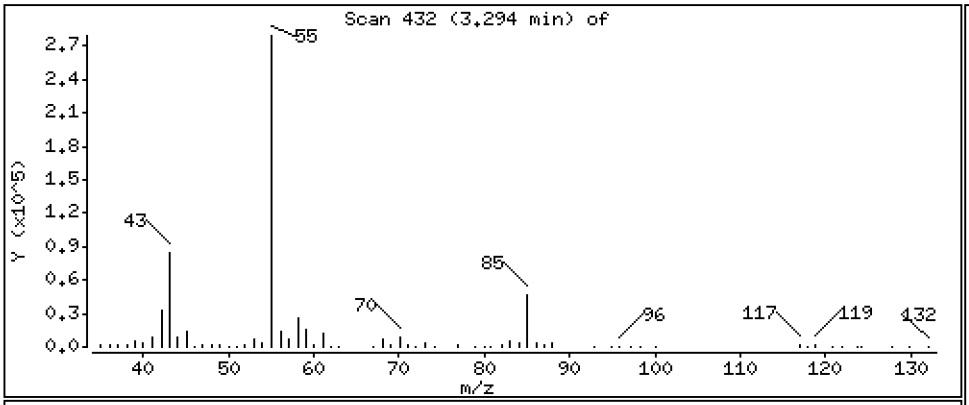
Client ID: Instrument: ms03.i

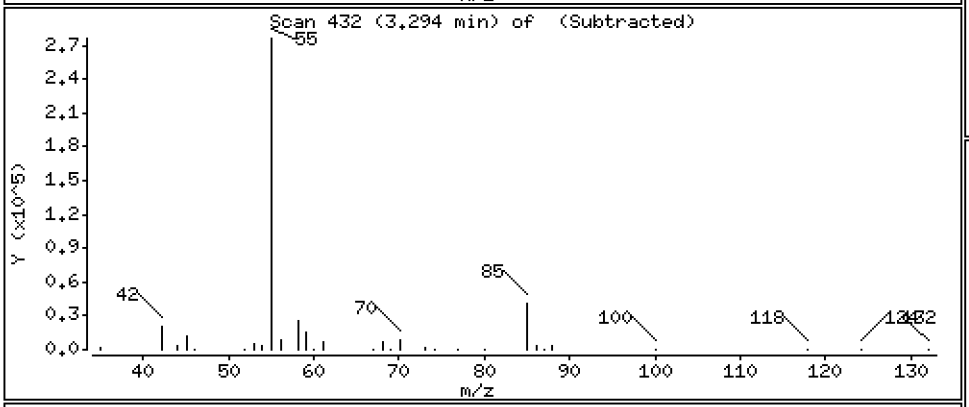
Sample Info: 1800;;1;2;4;;;

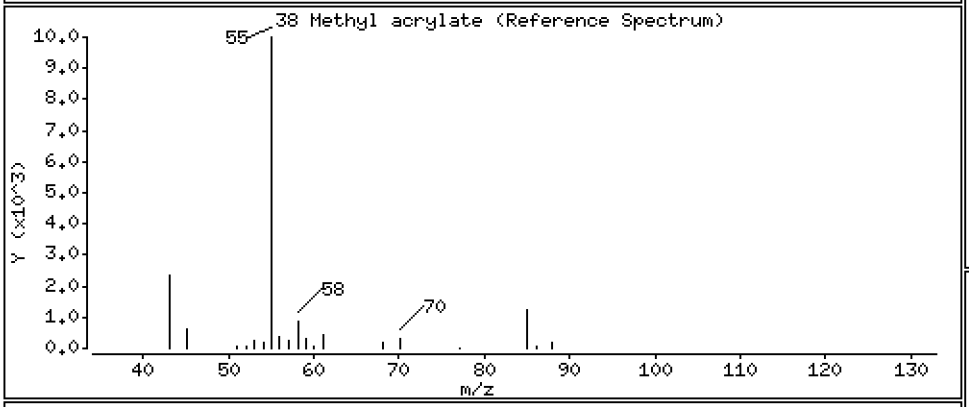
Purge Volume: 5.0 Operator: DD

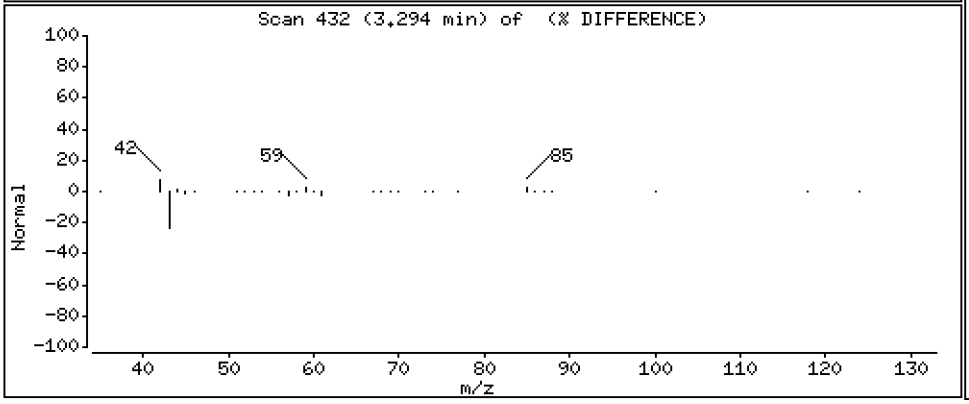
Column phase: DB-VRX Column diameter: 0.25

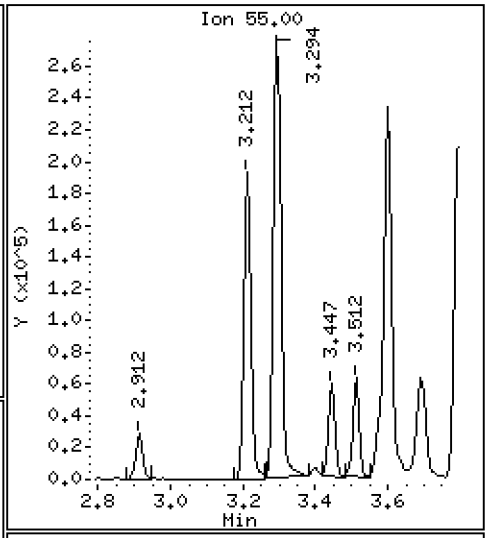
38 Methyl acrylate Concentration: 52.7685 ug/L

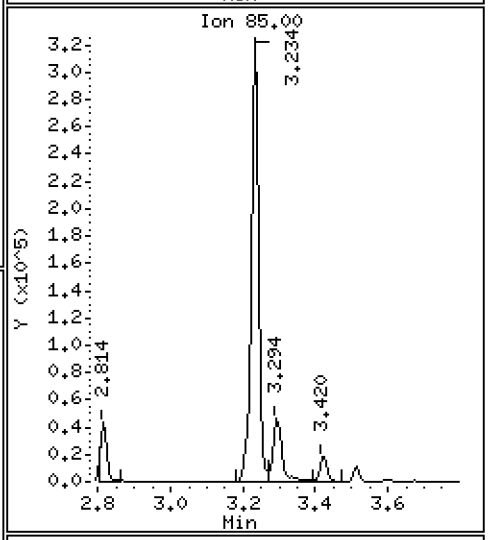


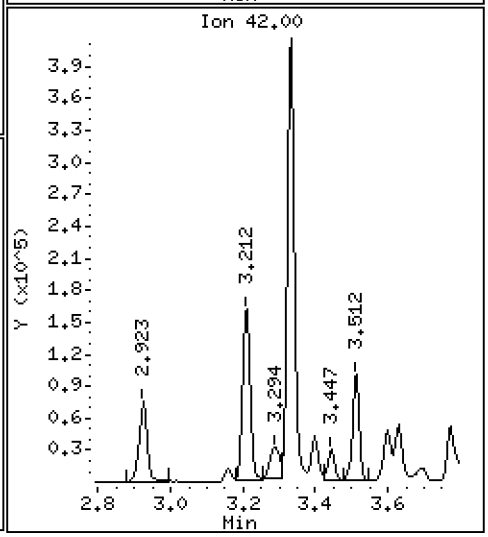












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 47

Date : 26-OCT-2016 09:18

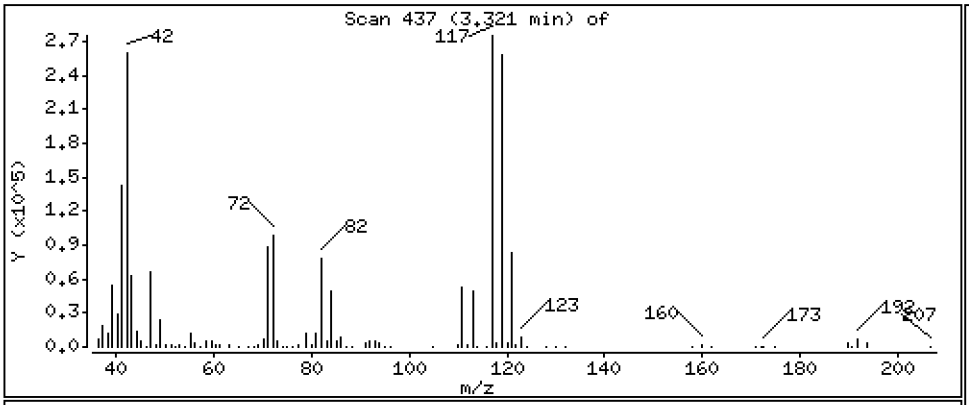
Client ID: Instrument: ms03.i

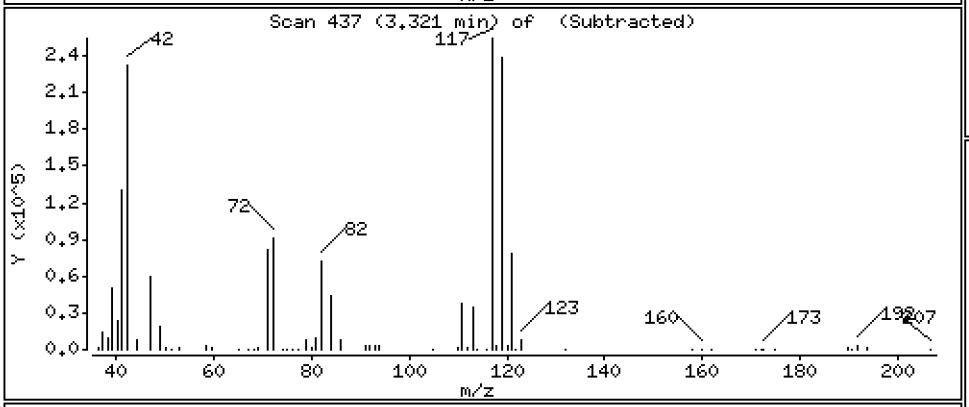
Sample Info: 1800;;1;2;4;;;

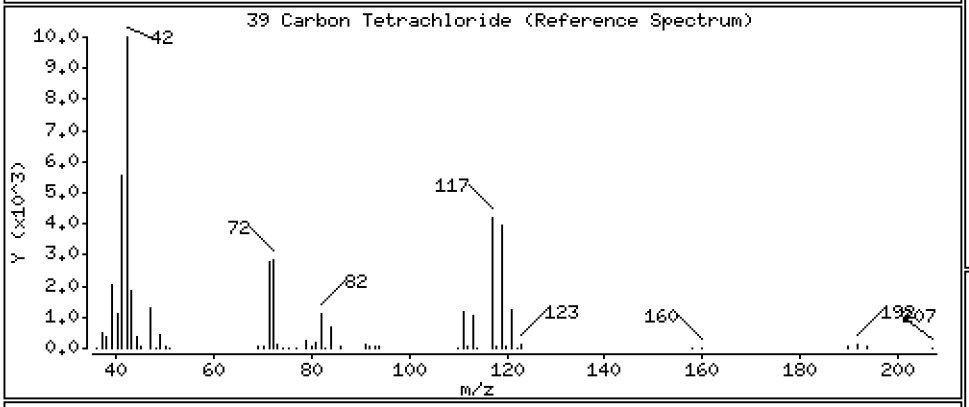
Purge Volume: 5.0 Operator: DD

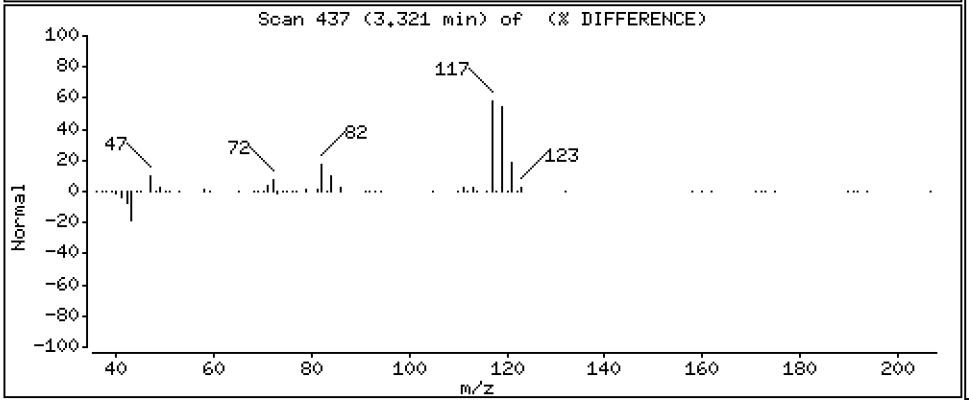
Column phase: DB-VRX Column diameter: 0.25

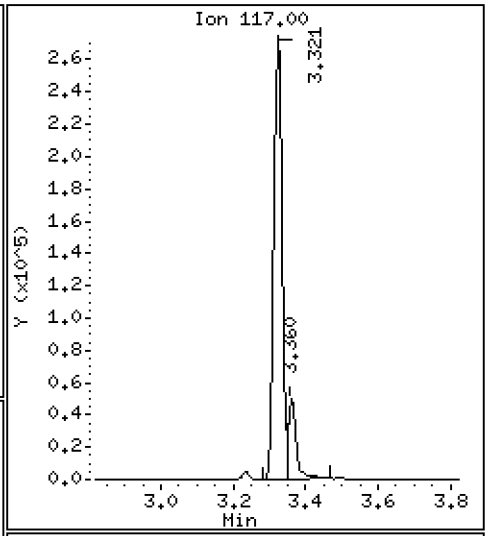
39 Carbon Tetrachloride Concentration: 46.0745 ug/L

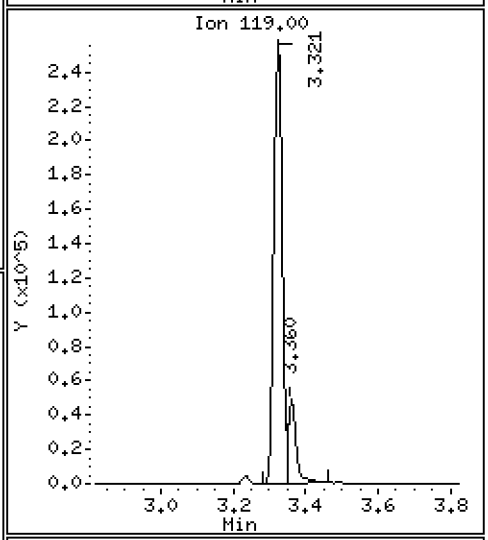


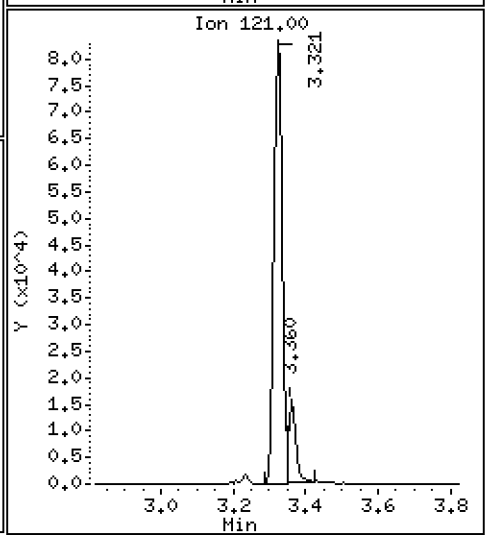












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 48

Date : 26-OCT-2016 09:18

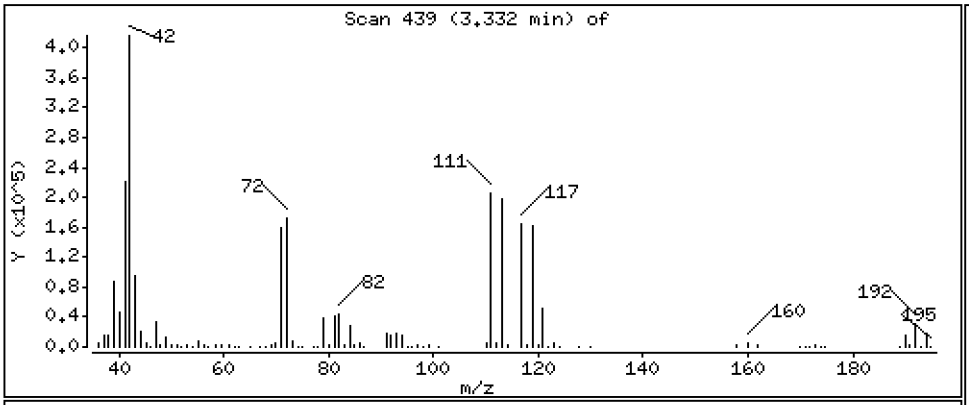
Client ID: Instrument: ms03.i

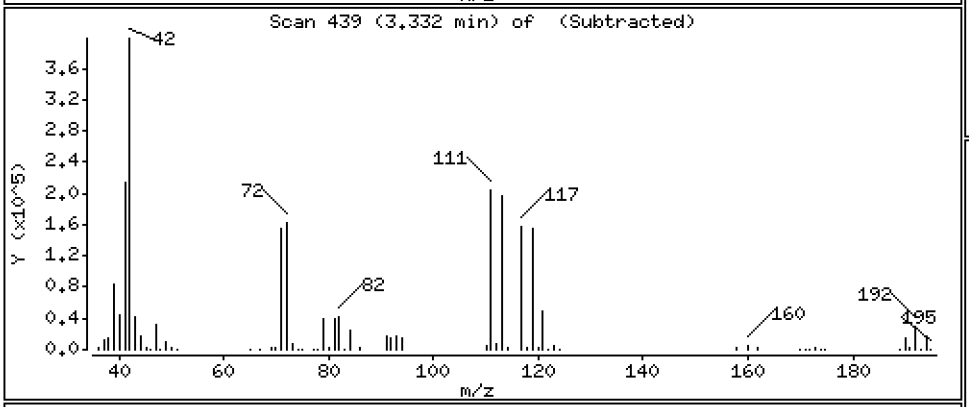
Sample Info: 1800;;1;2;4;;;

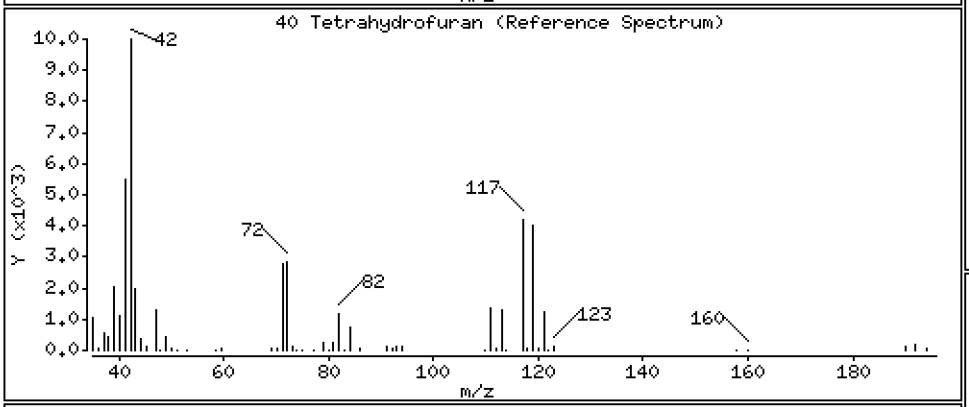
Purge Volume: 5.0 Operator: DD

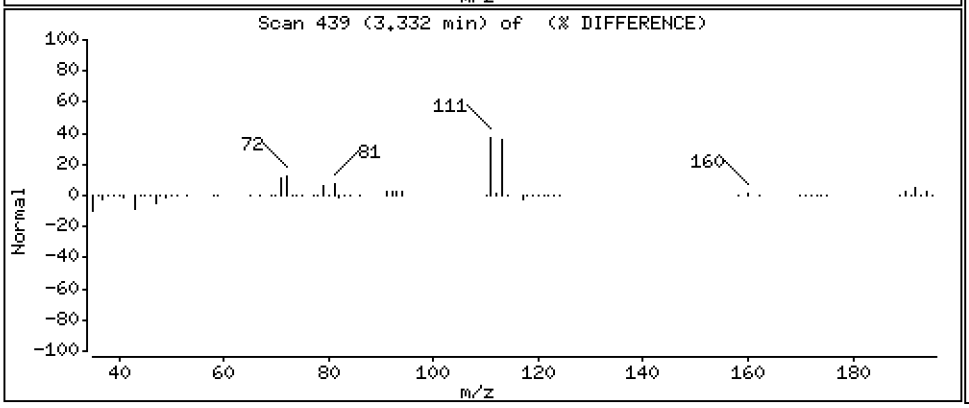
Column phase: DB-VRX Column diameter: 0.25

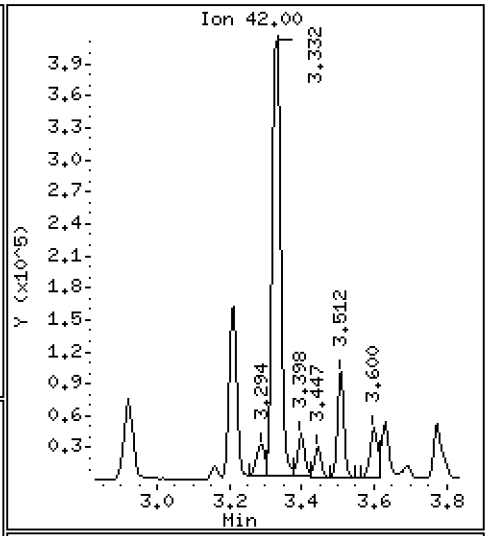
40 Tetrahydrofuran Concentration: 265.367 ug/L

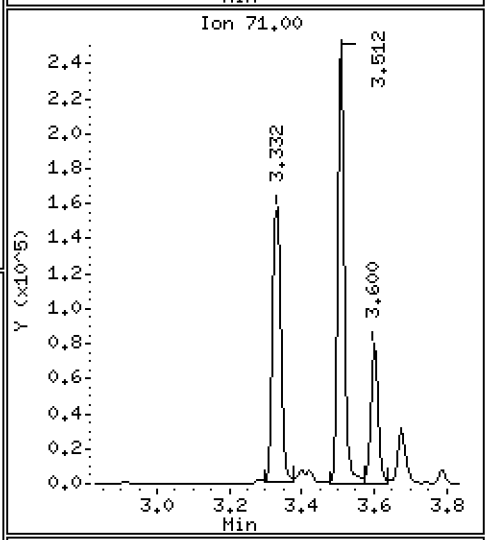


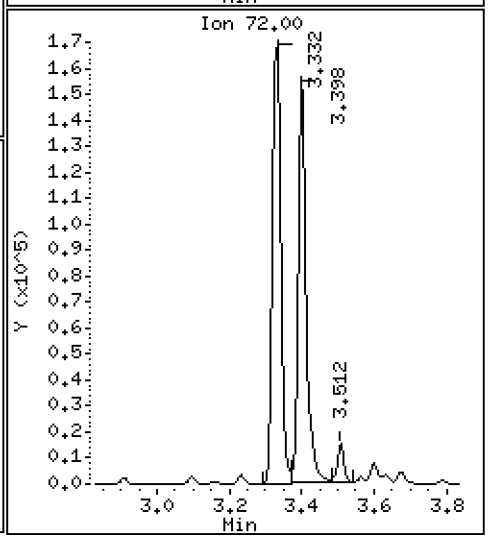












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 49

Date : 26-OCT-2016 09:18

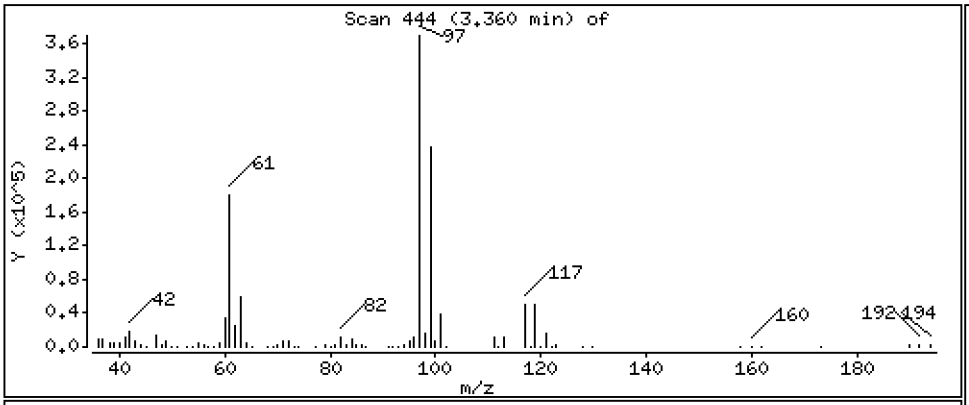
Client ID: Instrument: ms03.i

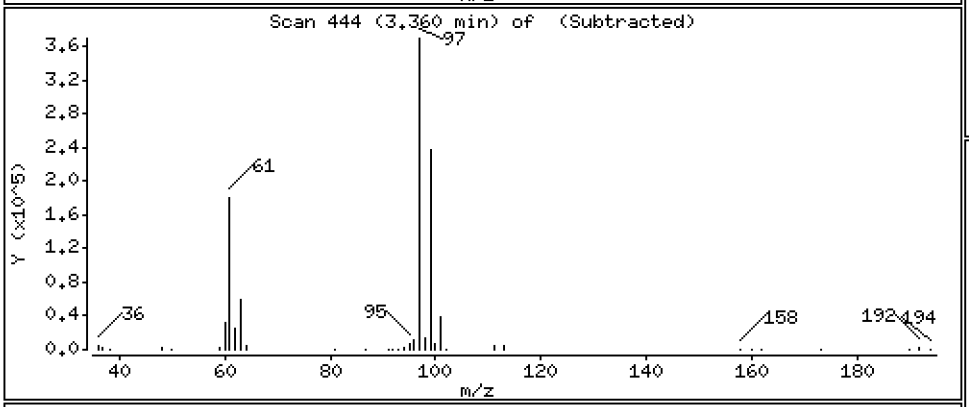
Sample Info: 1800;;1;2;4;;;

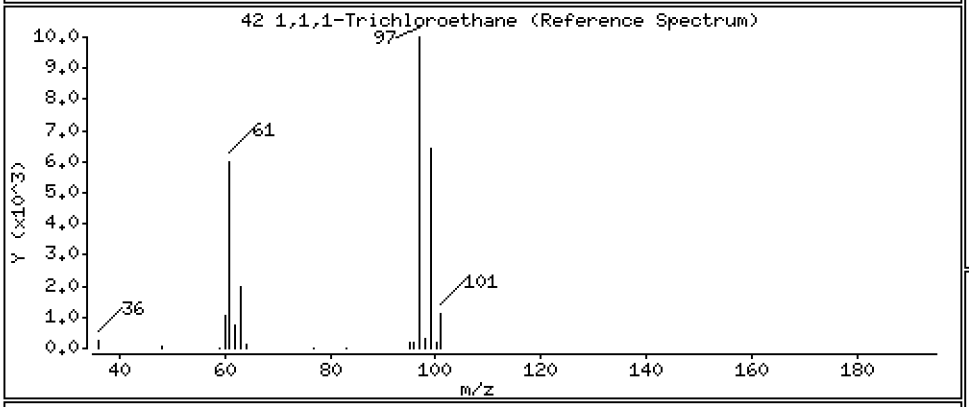
Purge Volume: 5.0 Operator: DD

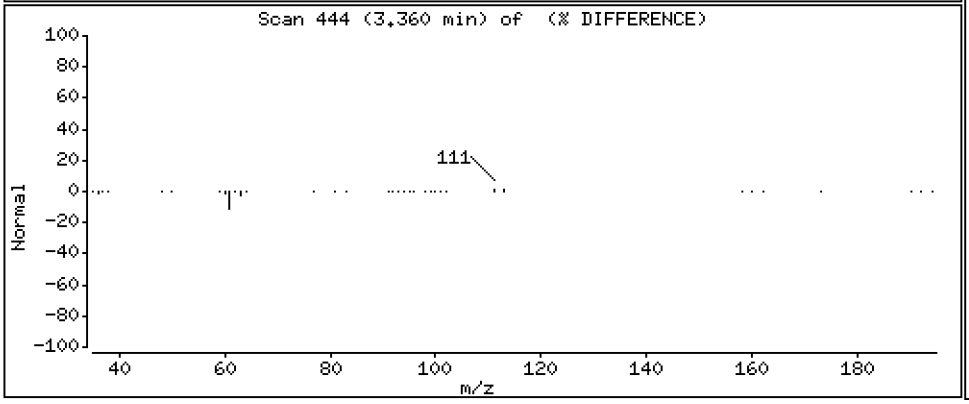
Column phase: DB-VRX Column diameter: 0.25

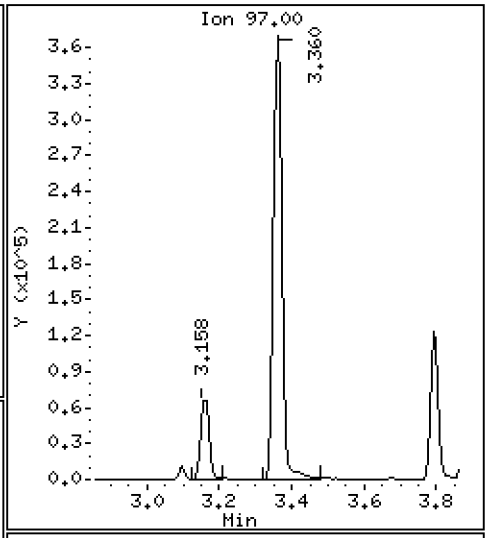
42 1,1,1-Trichloroethane Concentration: 48.8982 ug/L

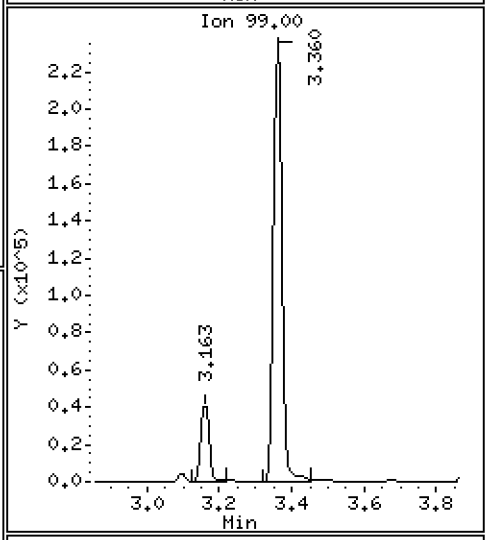


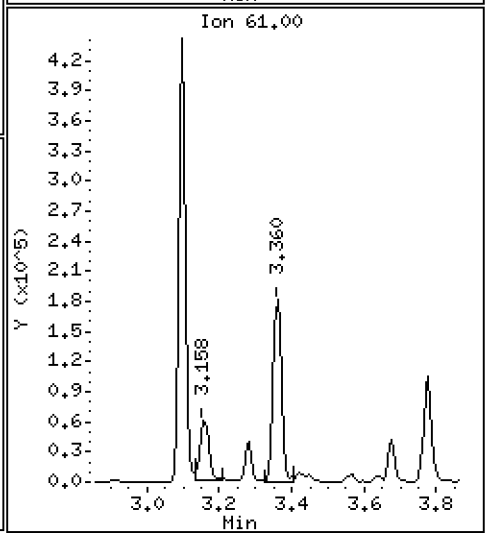












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 50

Date : 26-OCT-2016 09:18

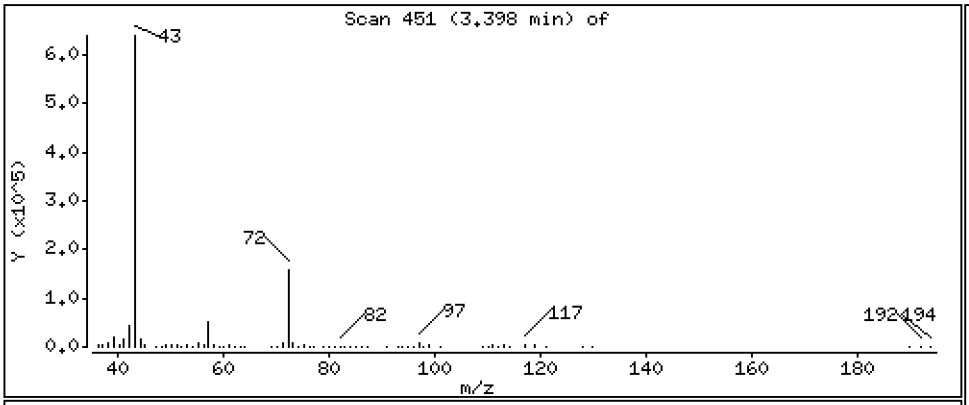
Client ID: Instrument: ms03.i

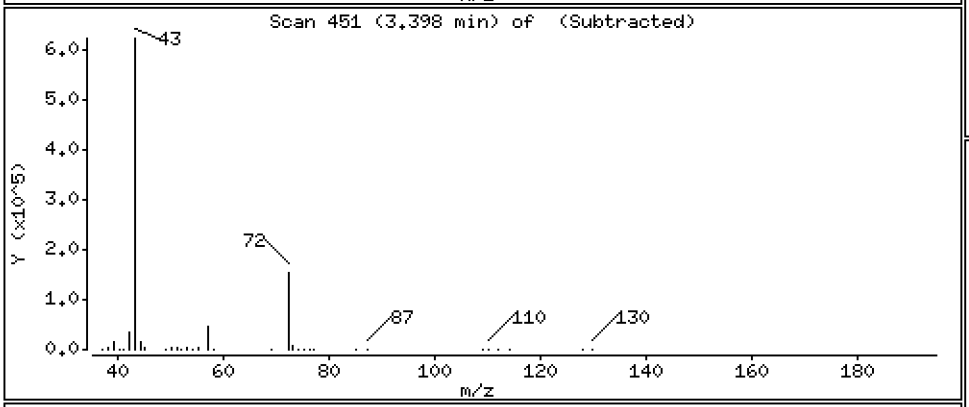
Sample Info: 1800;;1;2;4;;;

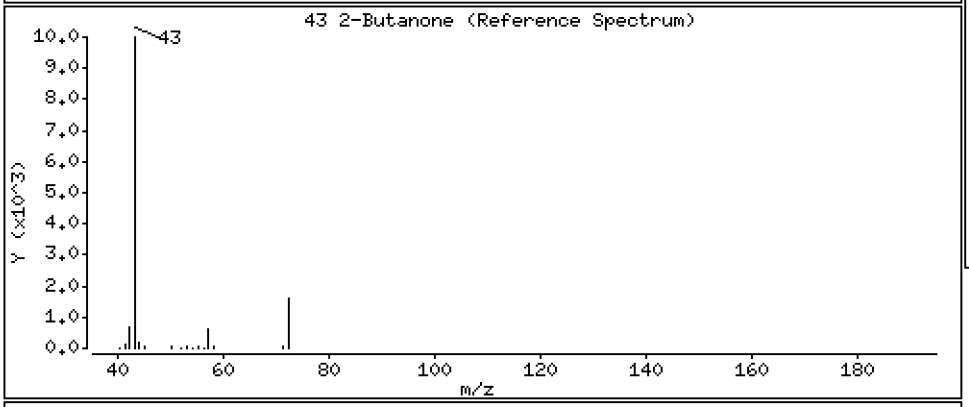
Purge Volume: 5.0 Operator: DD

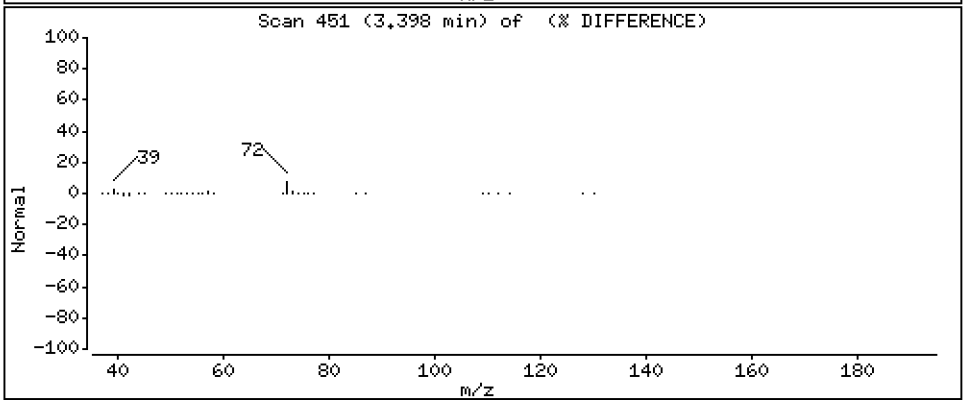
Column phase: DB-VRX Column diameter: 0.25

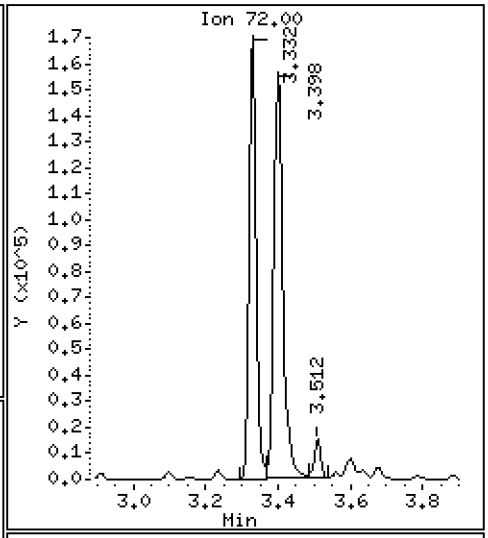
43 2-Butanone Concentration: 261.262 ug/L

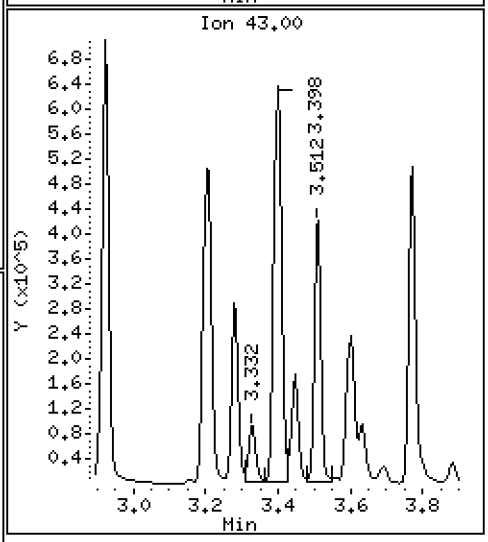












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 51

Date : 26-OCT-2016 09:18

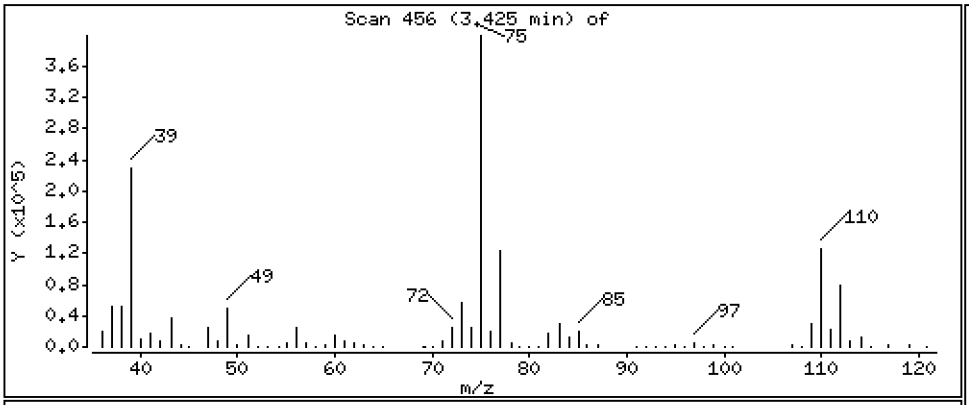
Client ID: Instrument: ms03.i

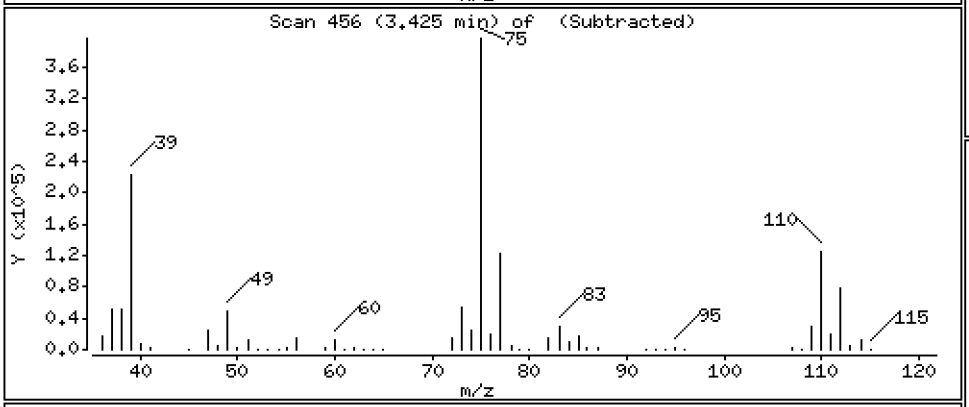
Sample Info: 1800;;1;2;4;;;

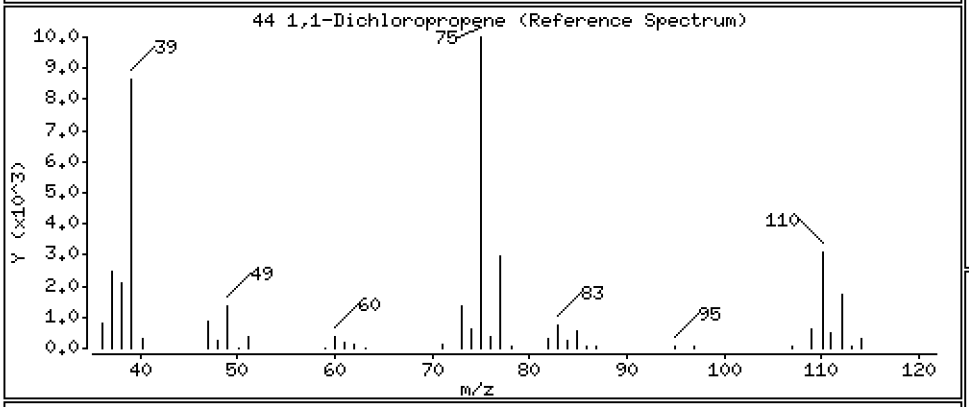
Purge Volume: 5.0 Operator: DD

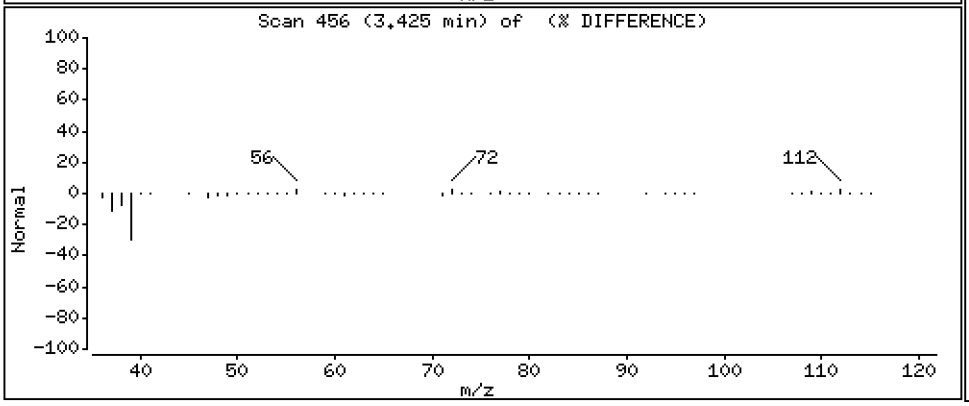
Column phase: DB-VRX Column diameter: 0.25

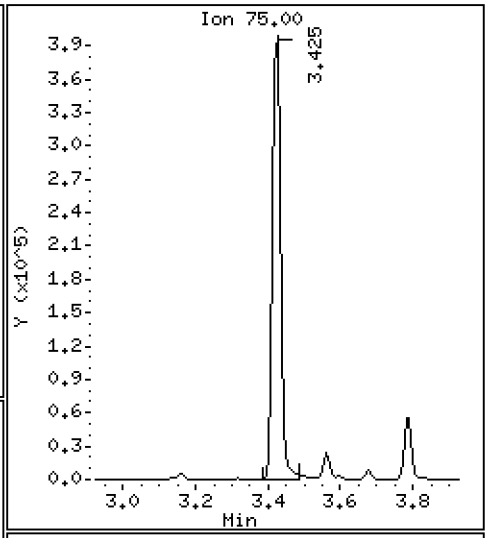
44 1,1-Dichloropropene Concentration: 46.5904 ug/L

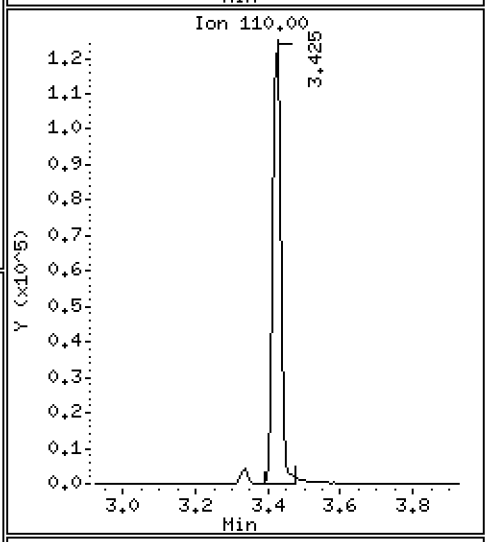


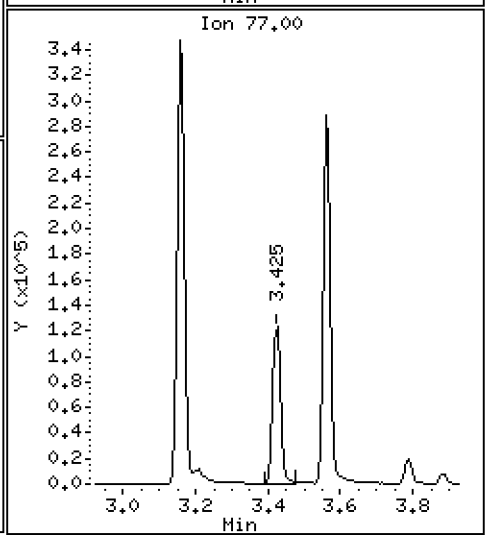












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 52

Date : 26-OCT-2016 09:18

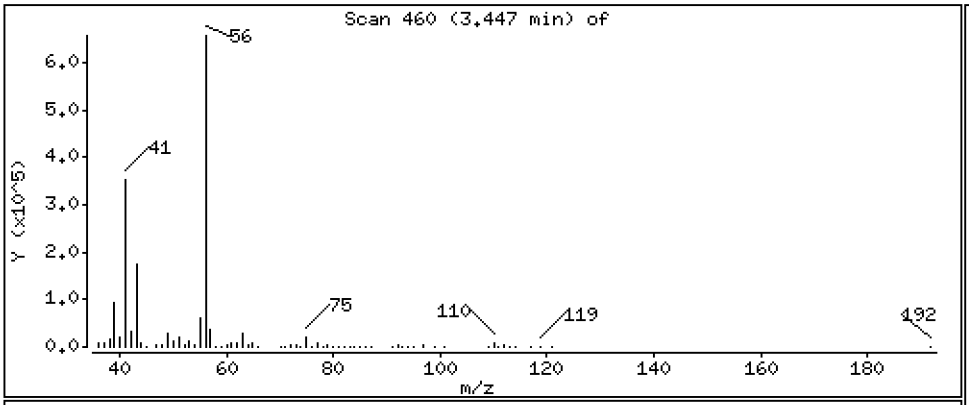
Client ID: Instrument: ms03.i

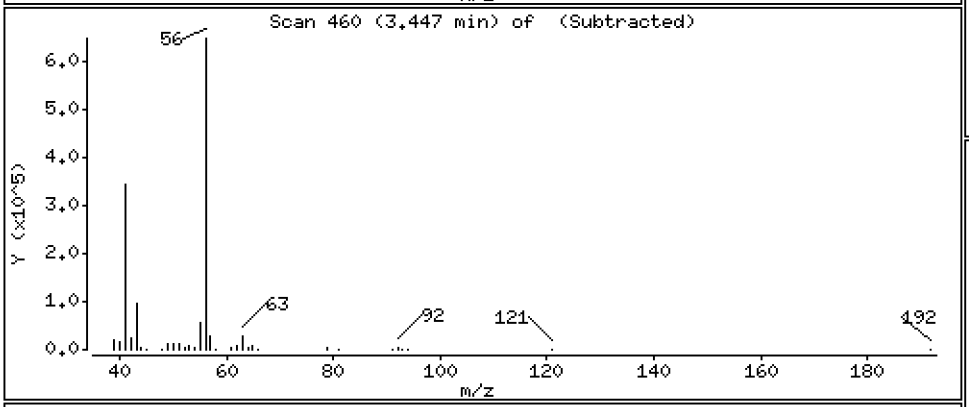
Sample Info: 1800;;1;2;4;;;

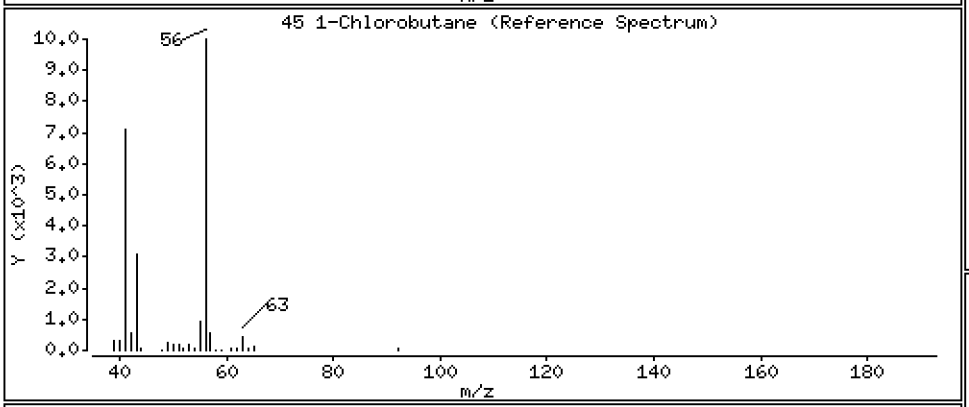
Purge Volume: 5.0 Operator: DD

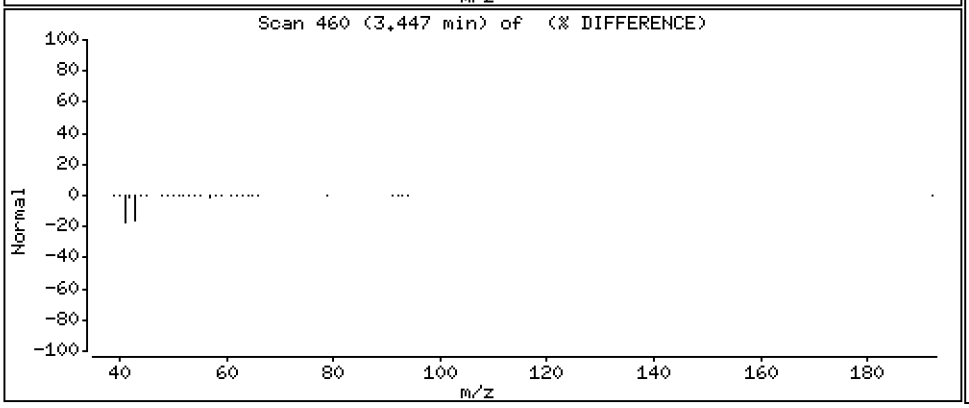
Column phase: DB-VRX Column diameter: 0.25

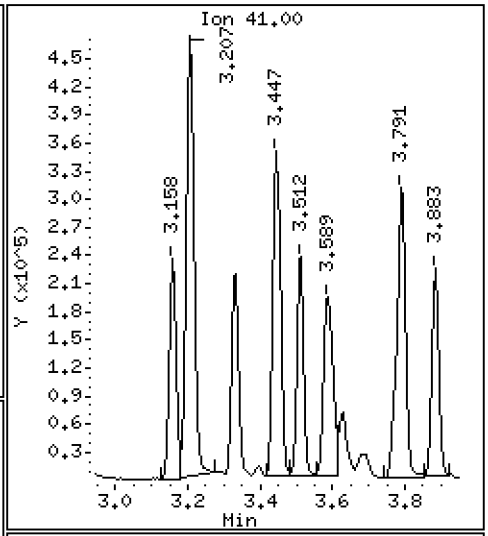
45 1-Chlorobutane Concentration: 52.7211 ug/L

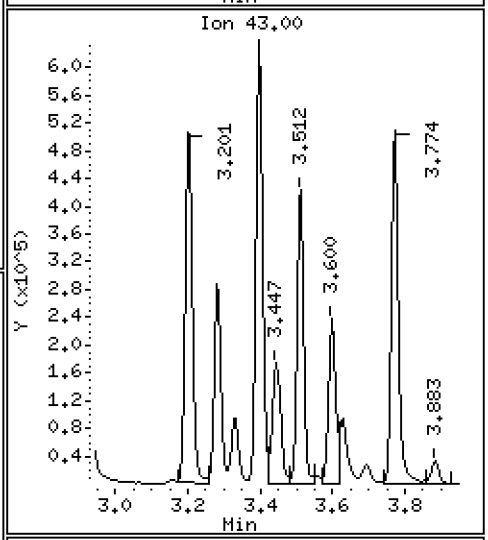


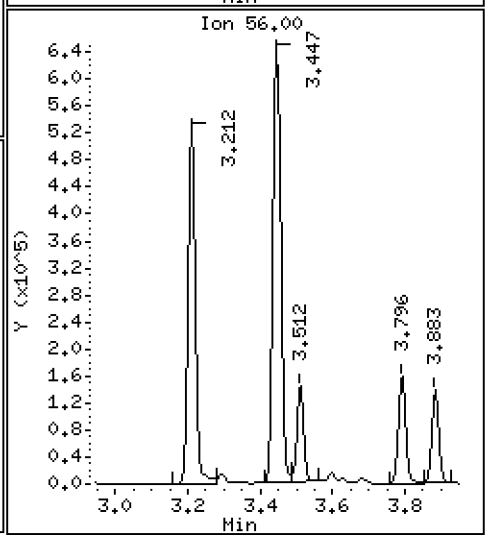












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 53

Date : 26-OCT-2016 09:18

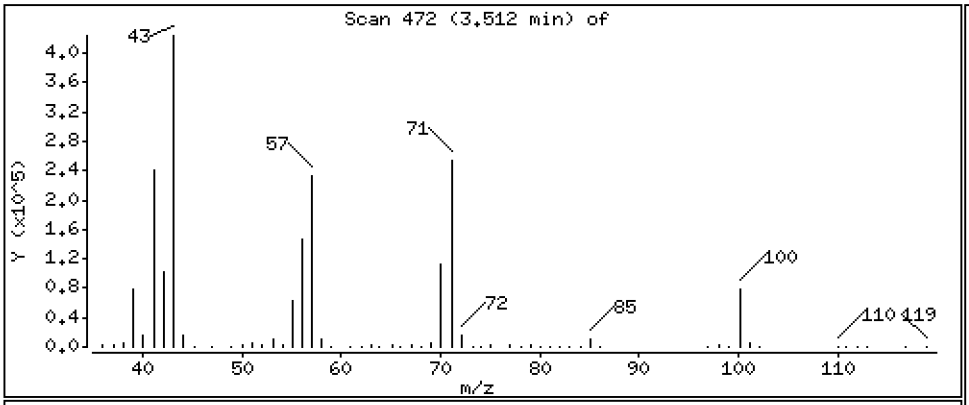
Client ID: Instrument: ms03.i

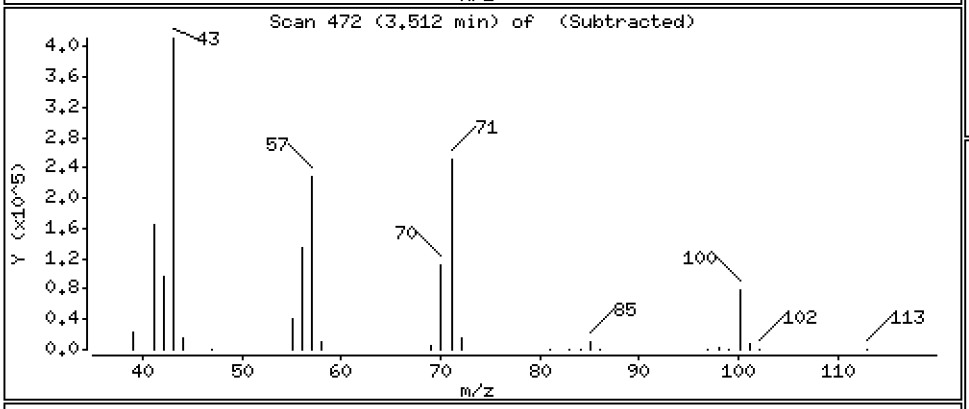
Sample Info: 1800;;1;2;4;;;

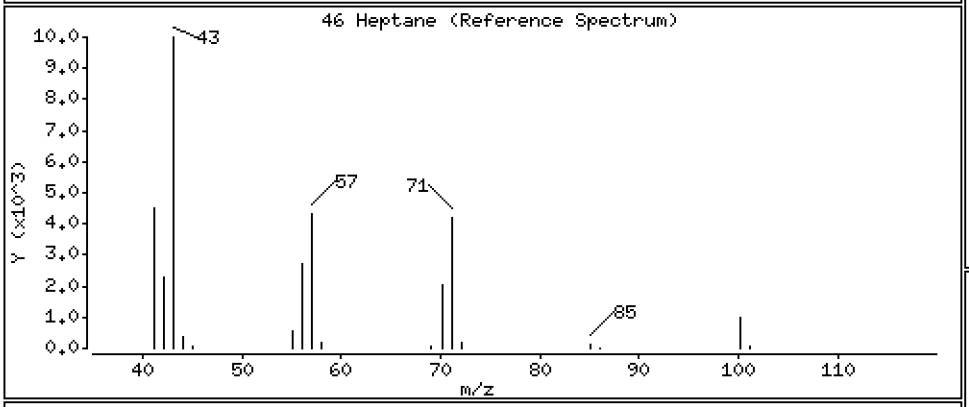
Purge Volume: 5.0 Operator: DD

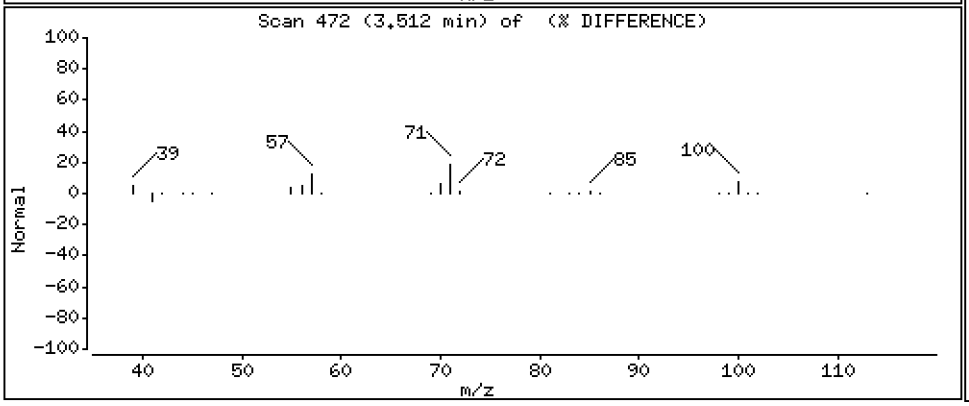
Column phase: DB-VRX Column diameter: 0.25

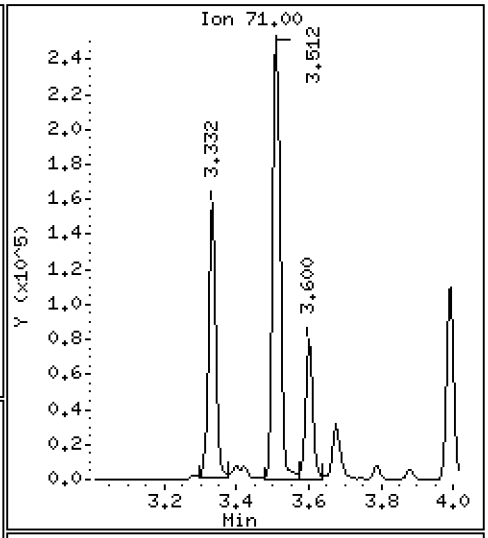
46 Heptane Concentration: 60.2561 ug/L

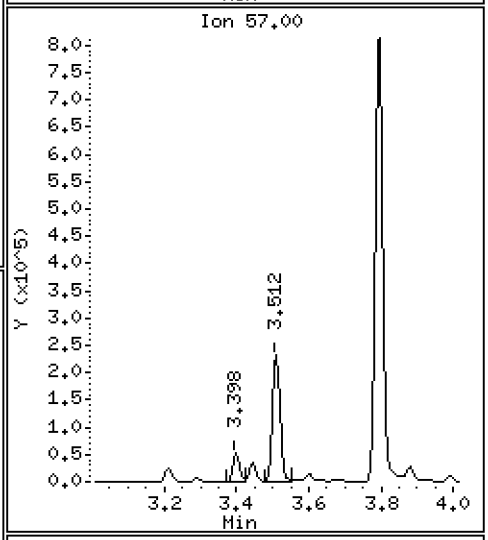


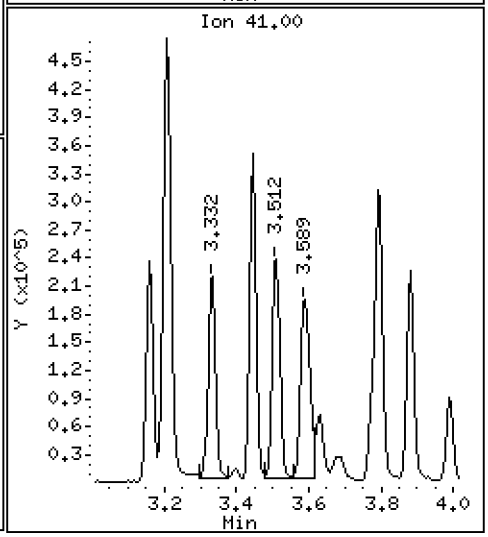












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 54

Date : 26-OCT-2016 09:18

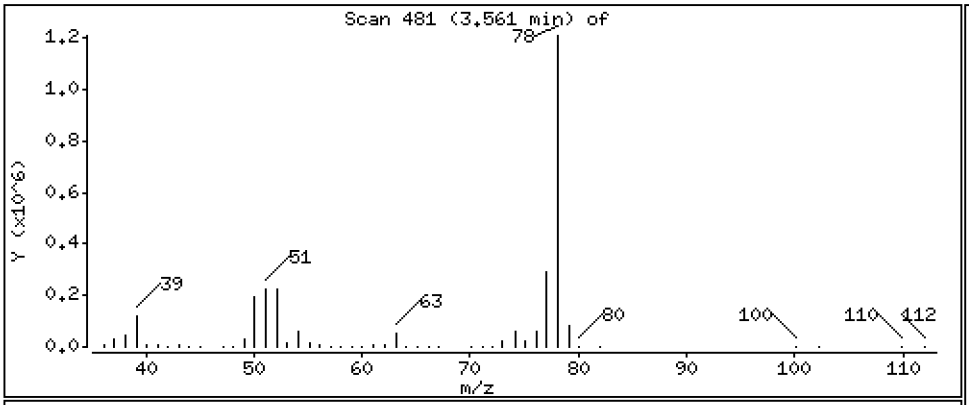
Client ID: Instrument: ms03.i

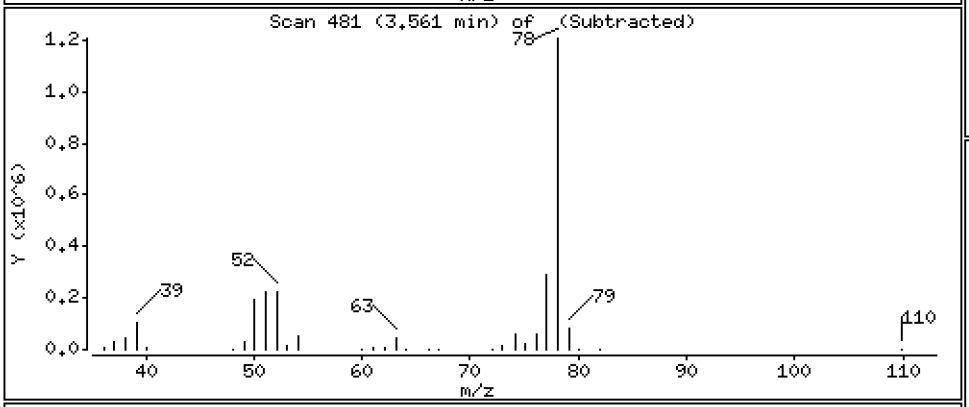
Sample Info: 1800;;1;2;4;;;

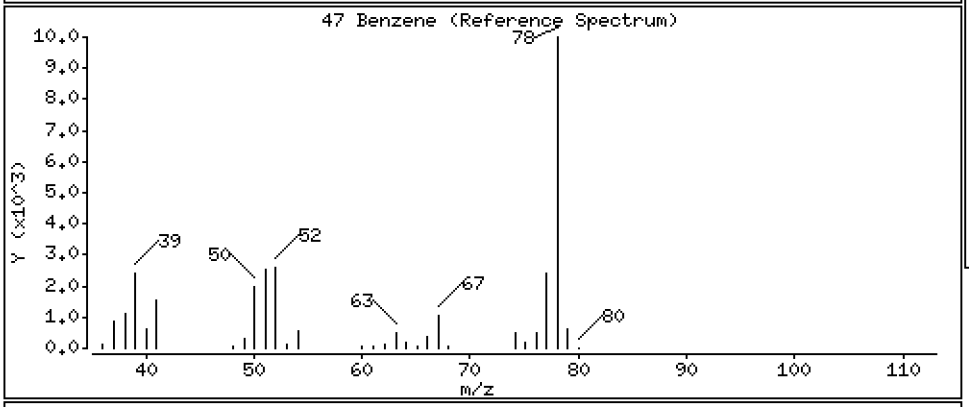
Purge Volume: 5.0 Operator: DD

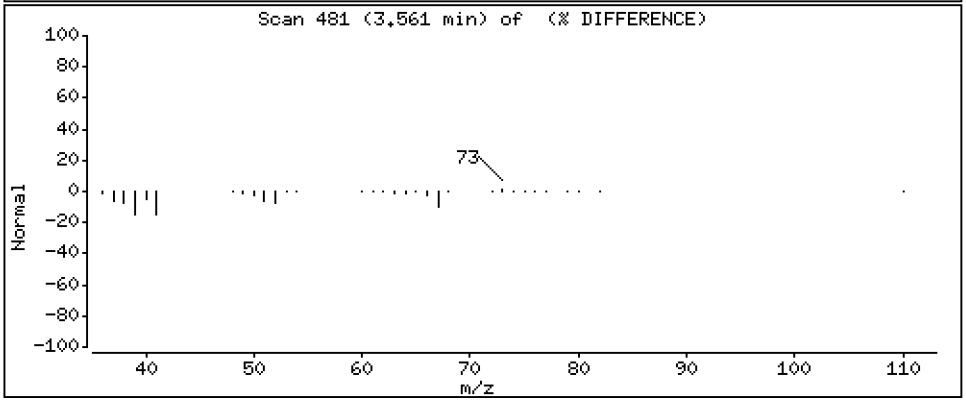
Column phase: DB-VRX Column diameter: 0.25

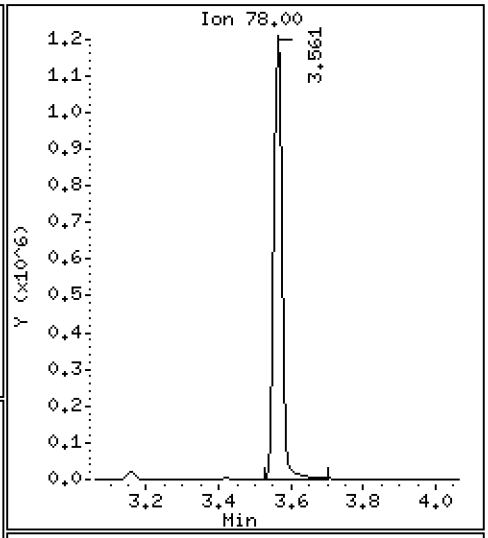
47 Benzene Concentration: 46.4135 ug/L

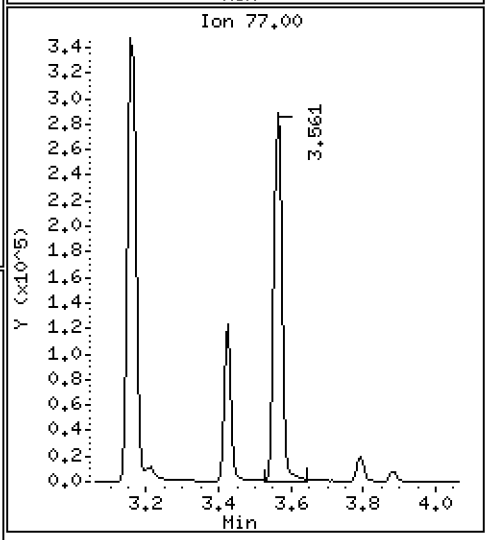












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 55

Date : 26-OCT-2016 09:18

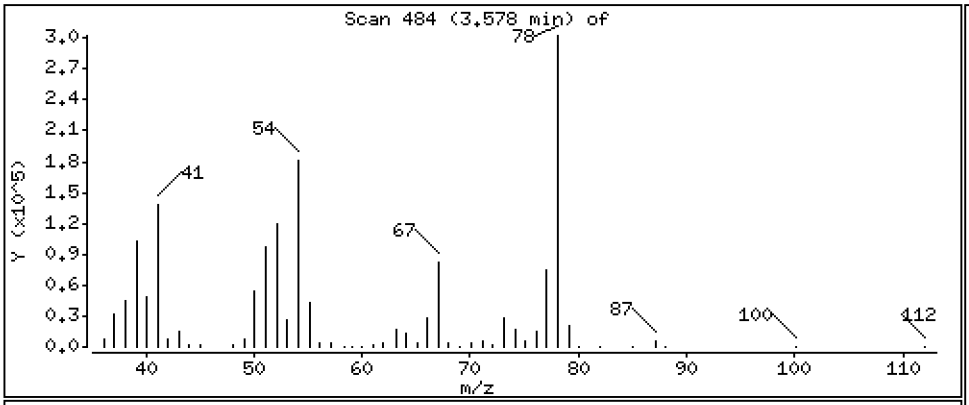
Client ID: Instrument: ms03.i

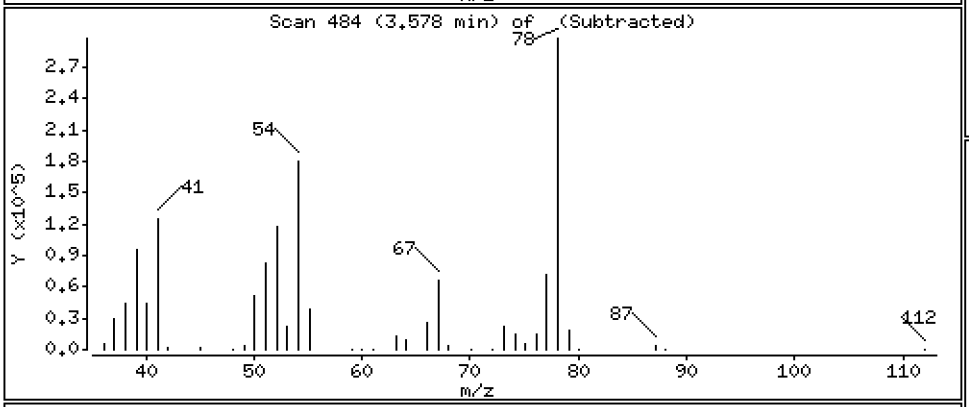
Sample Info: 1800;;1;2;4;;;

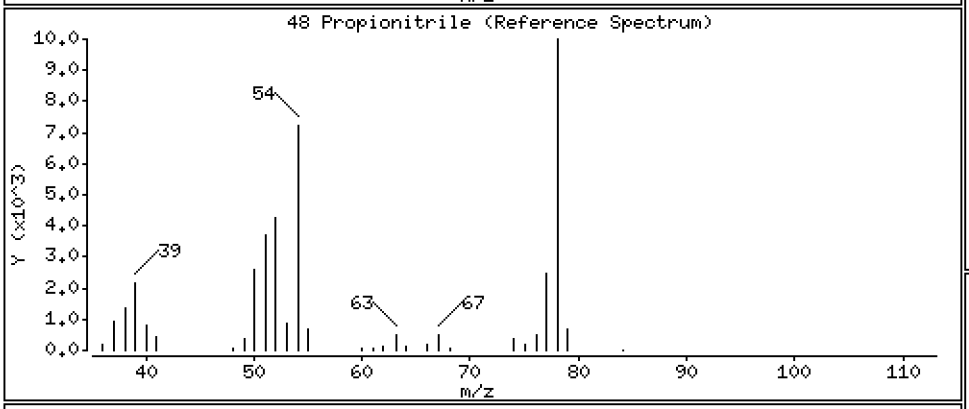
Purge Volume: 5.0 Operator: DD

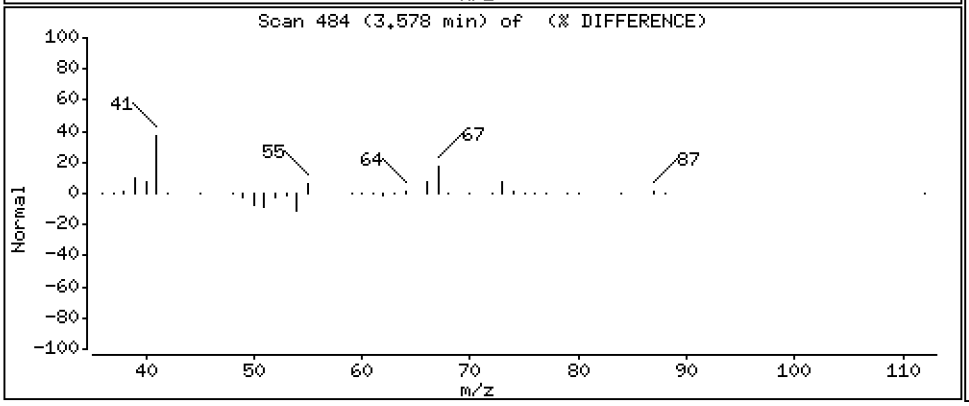
Column phase: DB-VRX Column diameter: 0.25

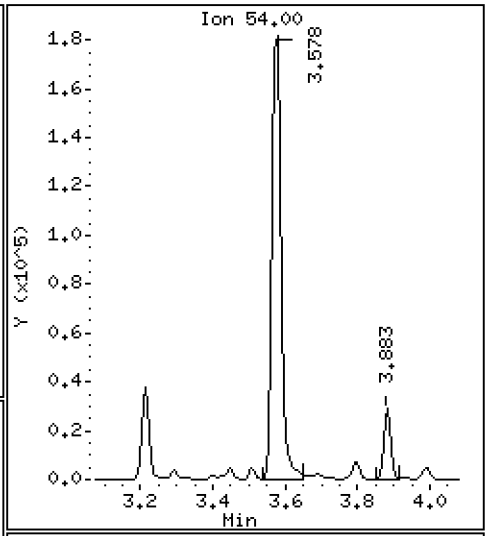
48 Propionitrile Concentration: 262.930 ug/L

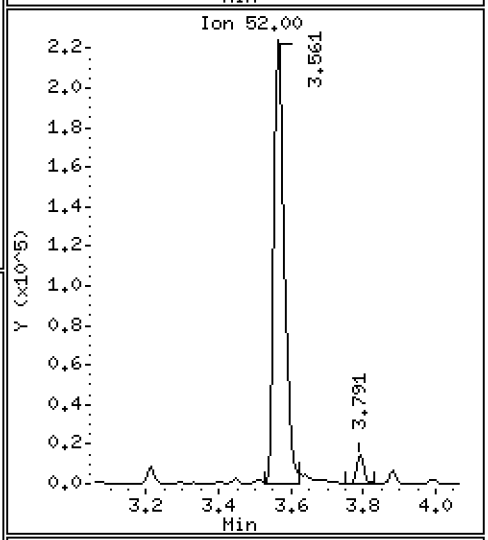


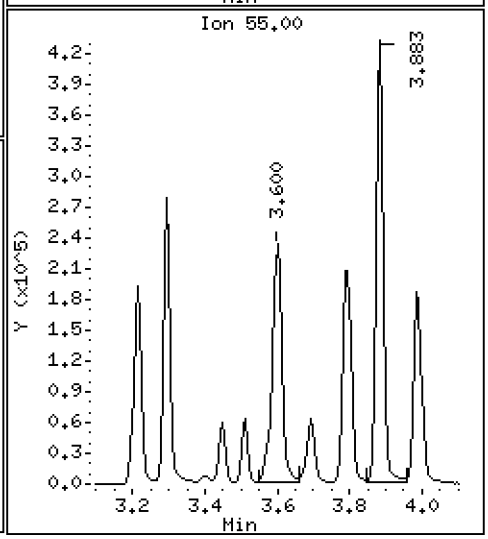












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 56

Date : 26-OCT-2016 09:18

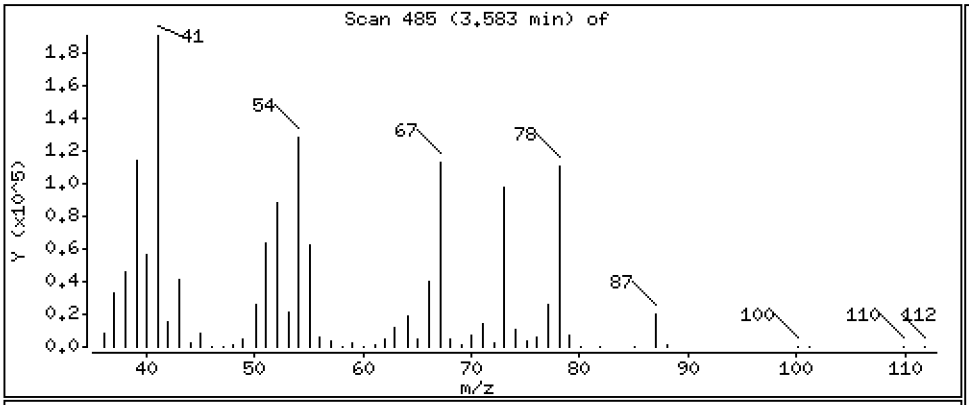
Client ID: Instrument: ms03.i

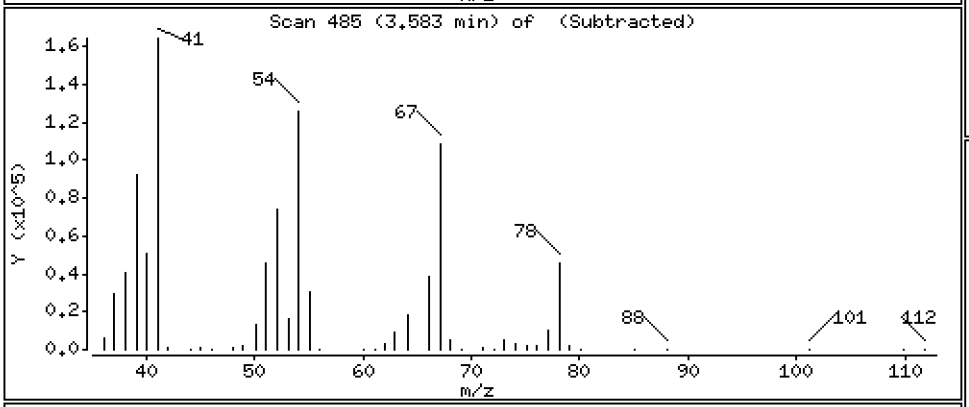
Sample Info: 1800;;1;2;4;;;

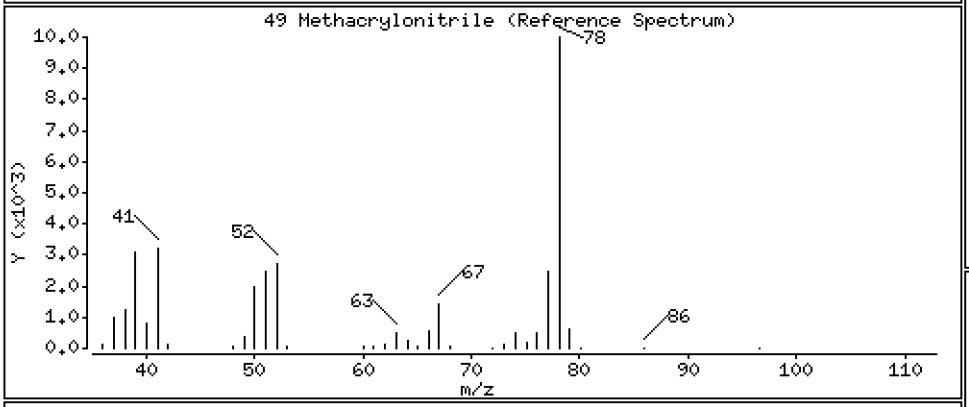
Purge Volume: 5.0 Operator: DD

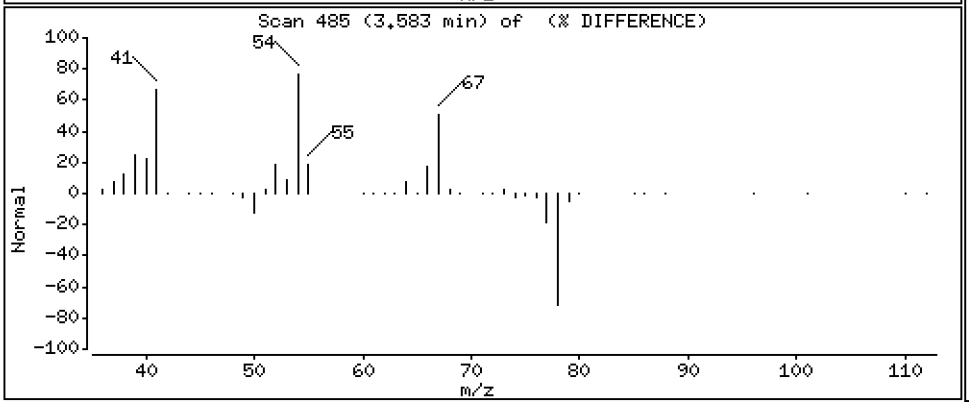
Column phase: DB-VRX Column diameter: 0.25

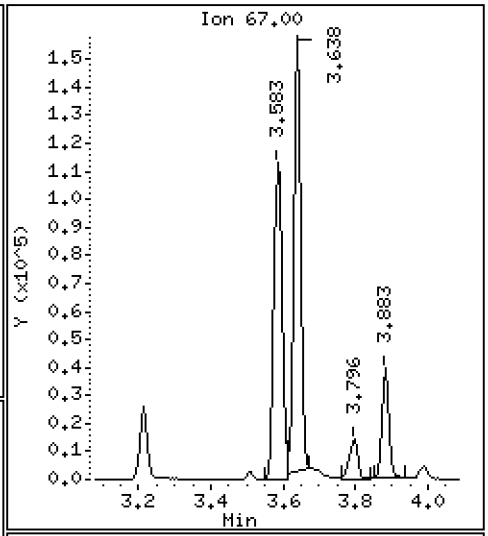
49 Methacrylonitrile Concentration: 49.2444 ug/L

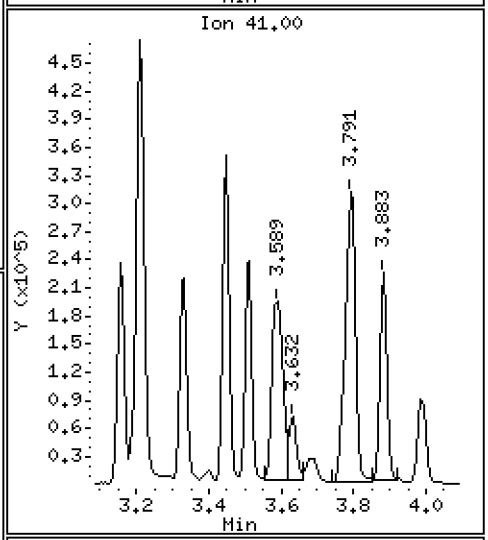


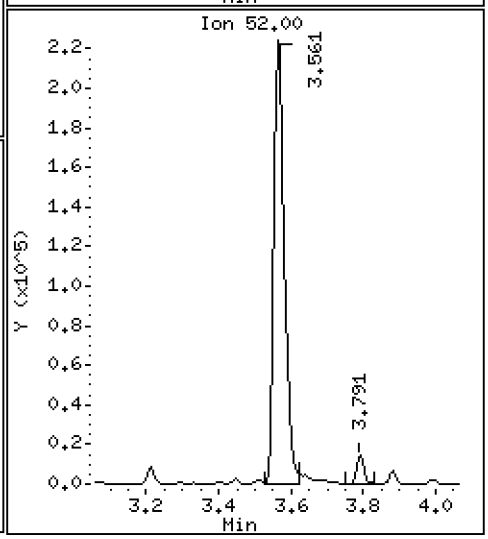












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 57

Date : 26-OCT-2016 09:18

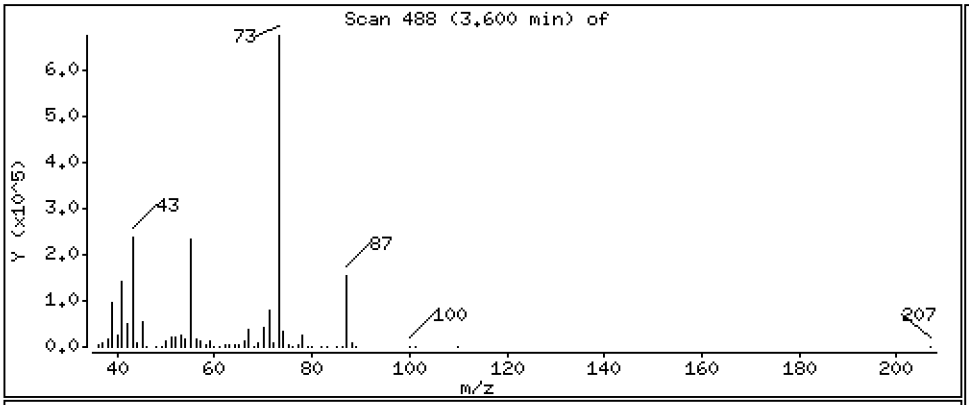
Client ID: Instrument: ms03.i

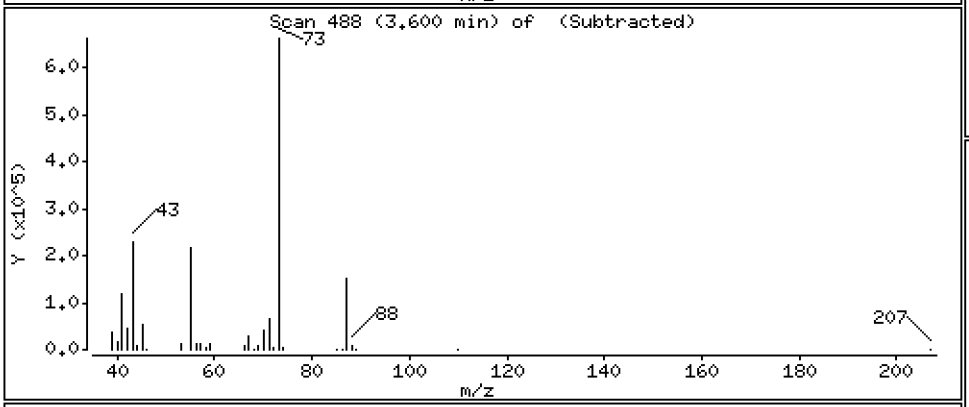
Sample Info: 1800;;1;2;4;;;

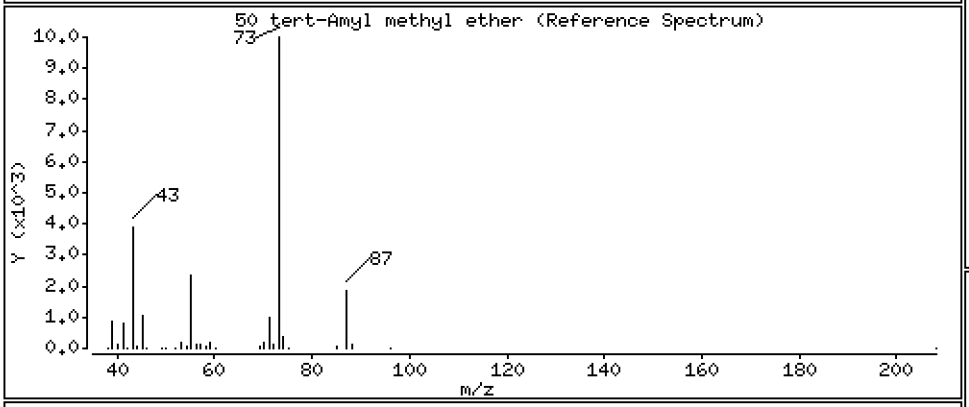
Purge Volume: 5.0 Operator: DD

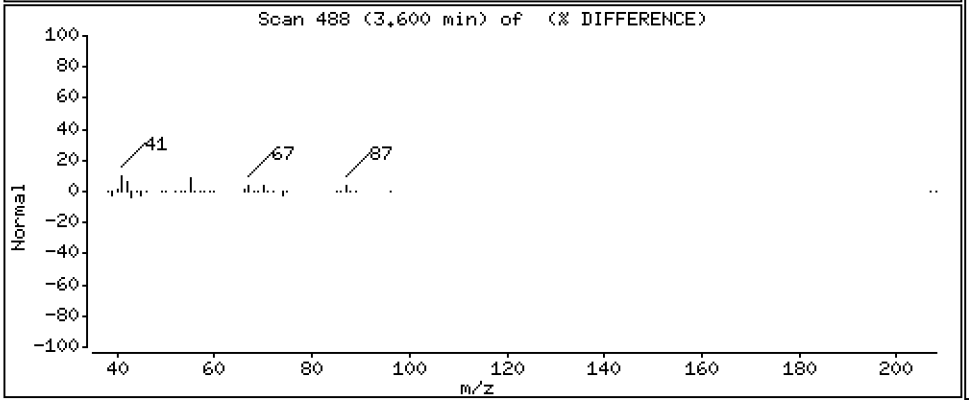
Column phase: DB-VRX Column diameter: 0.25

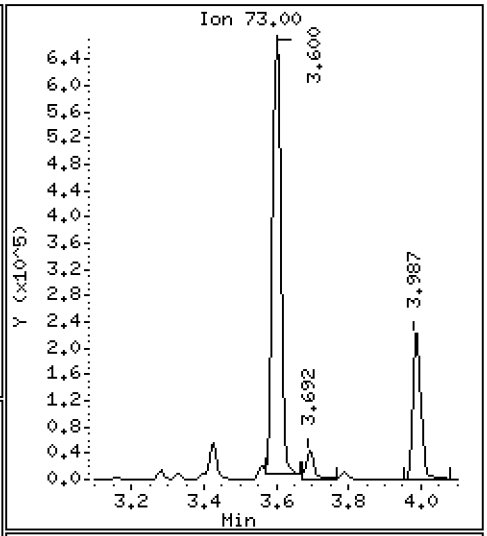
50 tert-Amyl methyl ether Concentration: 50.3191 ug/L

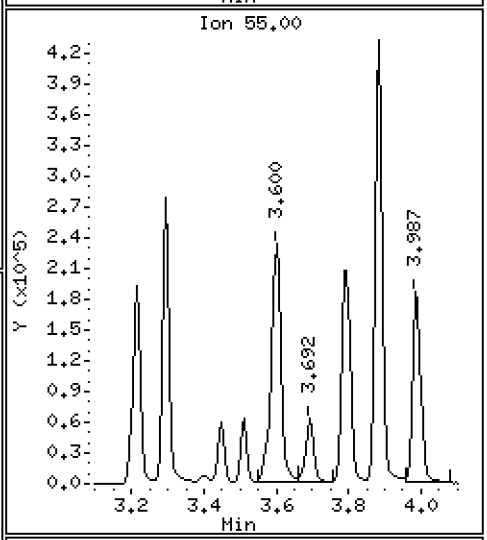


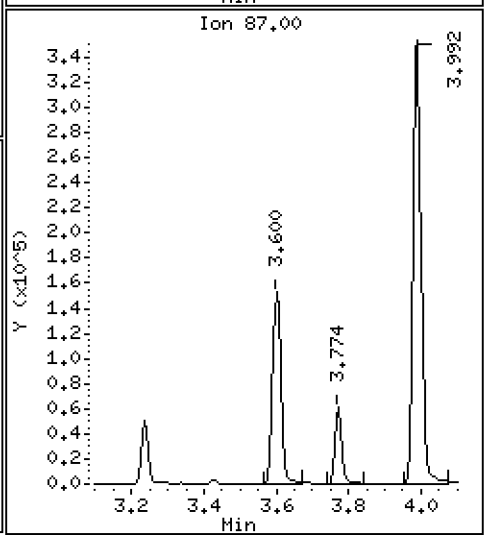












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 58

Date : 26-OCT-2016 09:18

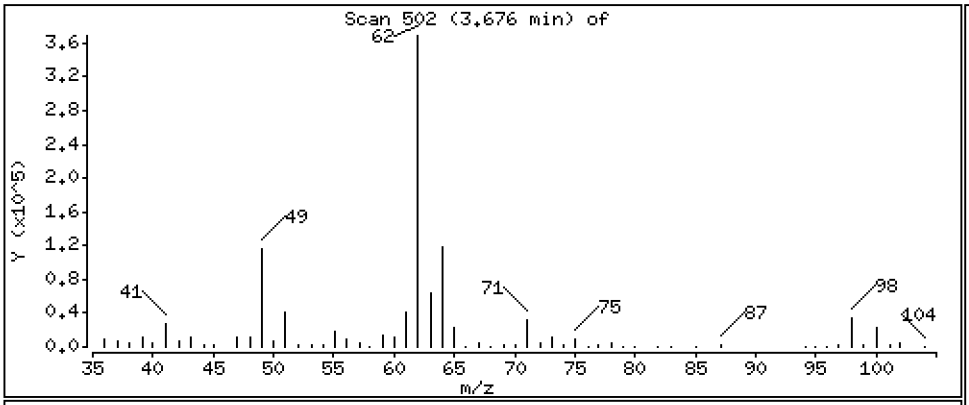
Client ID: Instrument: ms03.i

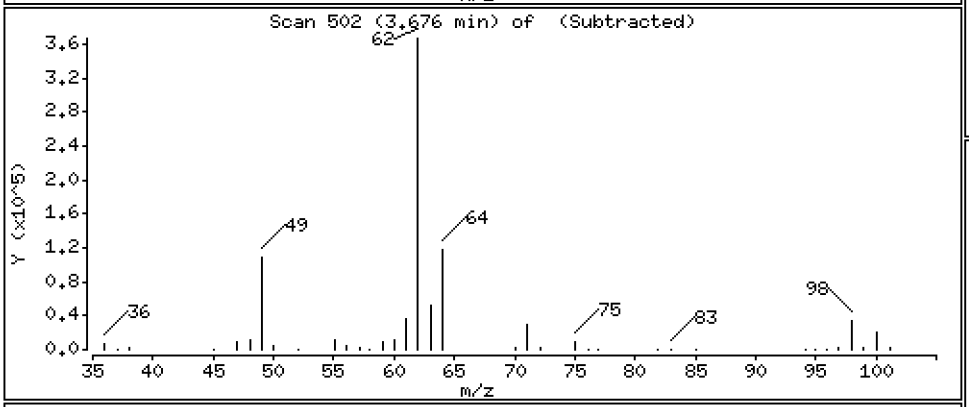
Sample Info: 1800;;1;2;4;;;

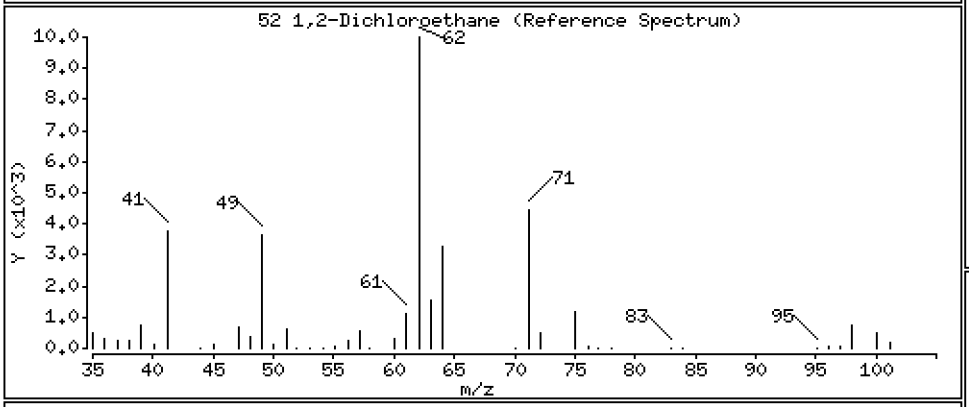
Purge Volume: 5.0 Operator: DD

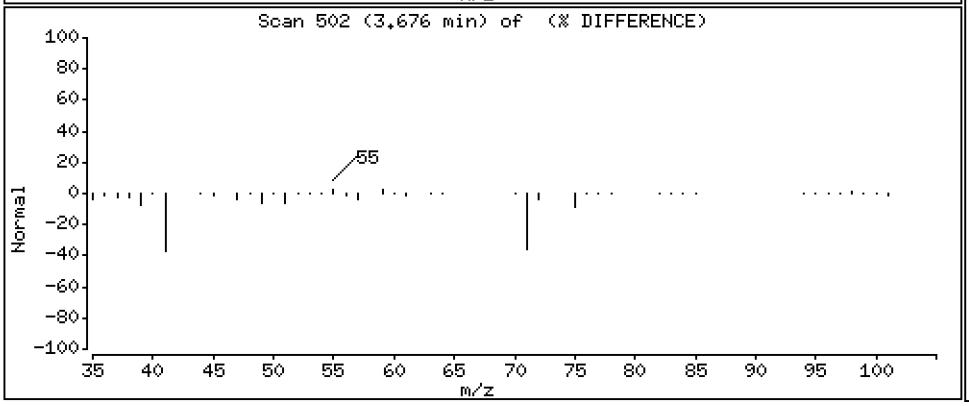
Column phase: DB-VRX Column diameter: 0.25

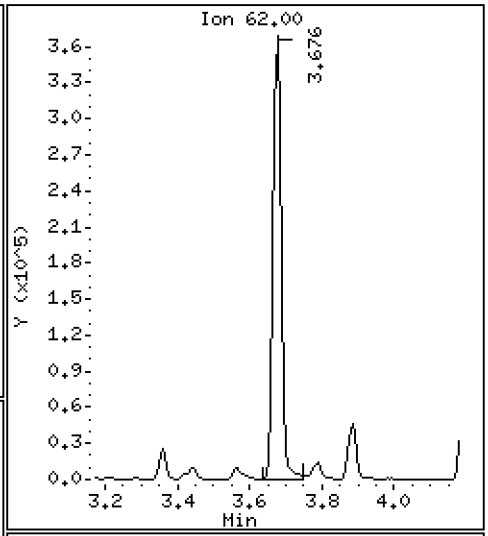
52 1,2-Dichloroethane Concentration: 47.3682 ug/L

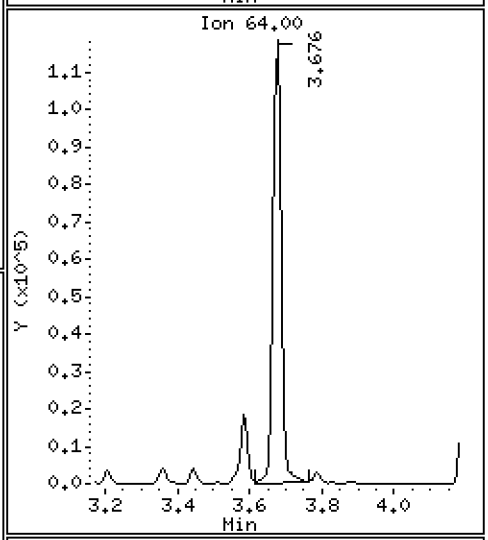


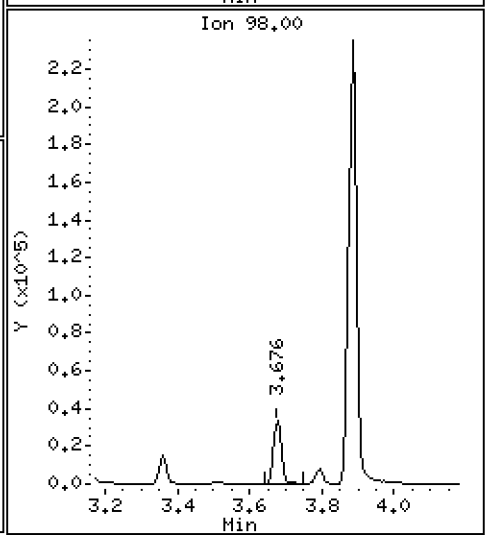












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 59

Date : 26-OCT-2016 09:18

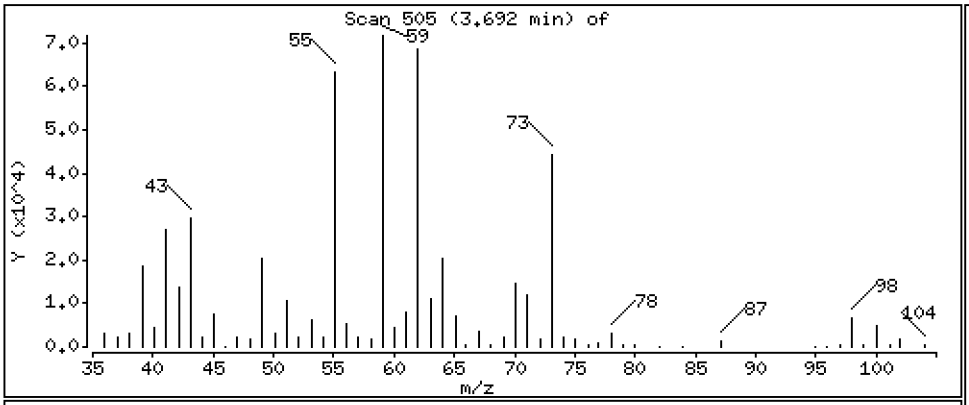
Client ID: Instrument: ms03.i

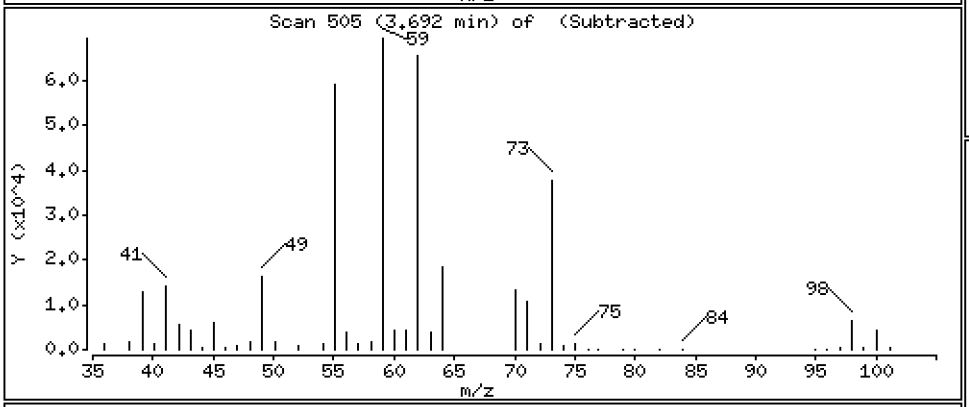
Sample Info: 1800;;1;2;4;;;

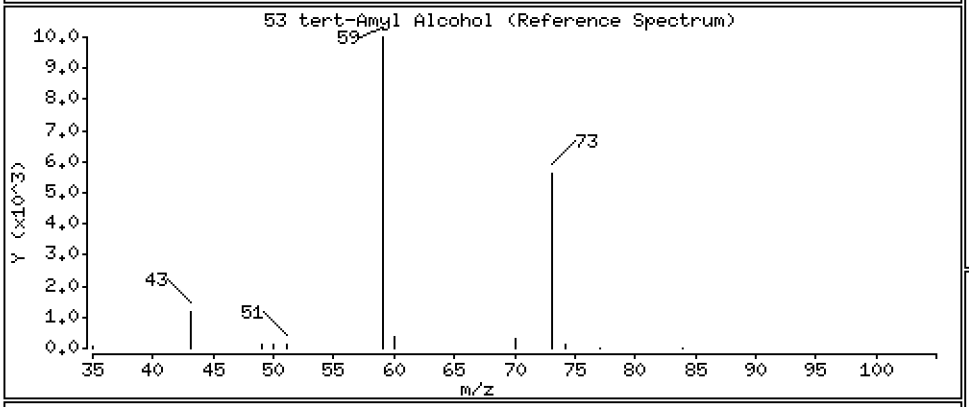
Purge Volume: 5.0 Operator: DD

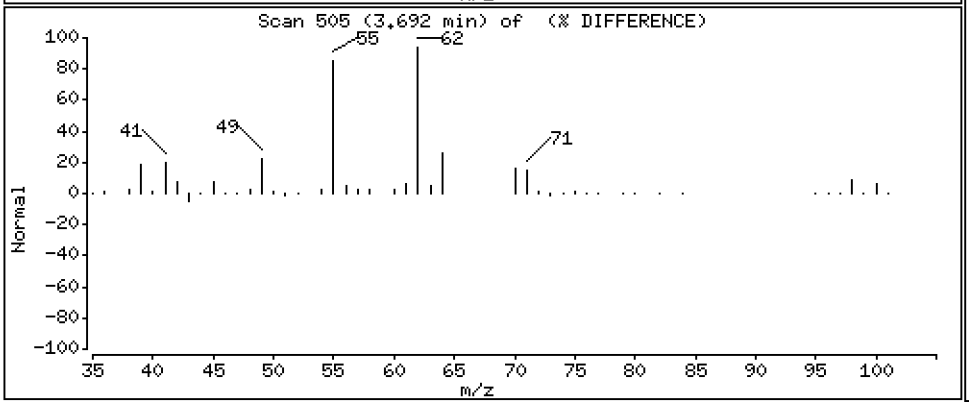
Column phase: DB-VRX Column diameter: 0.25

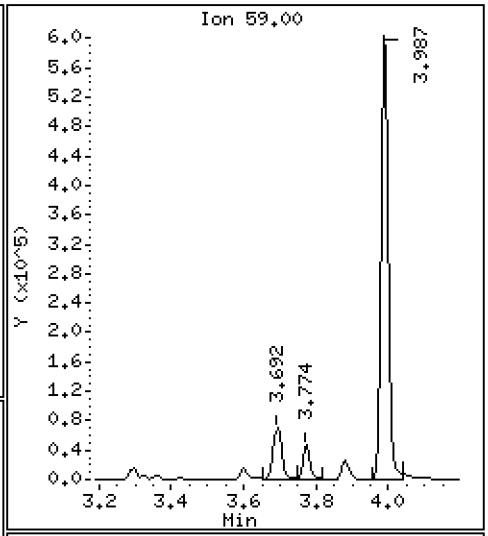
53 tert-Amyl Alcohol Concentration: 274.415 ug/L

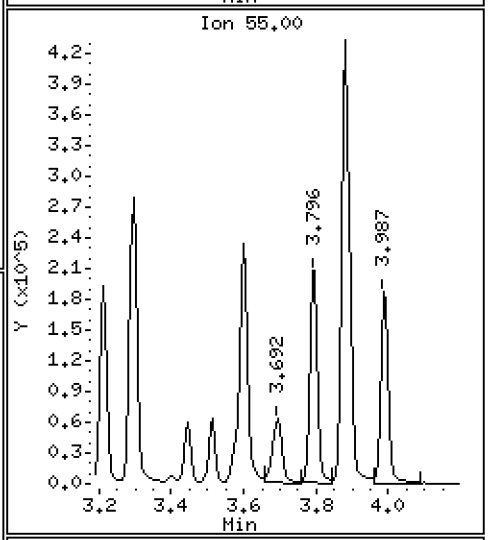


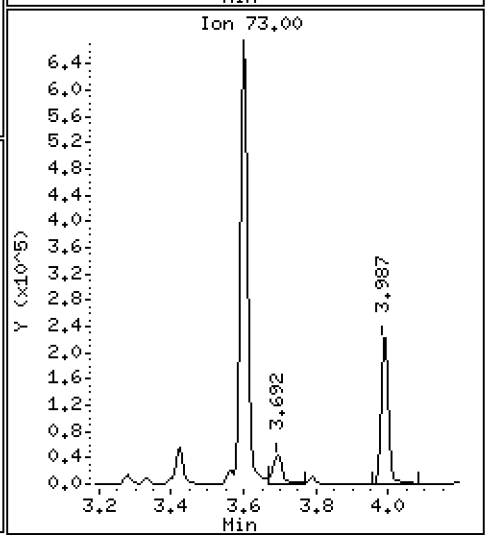












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 60

Date : 26-OCT-2016 09:18

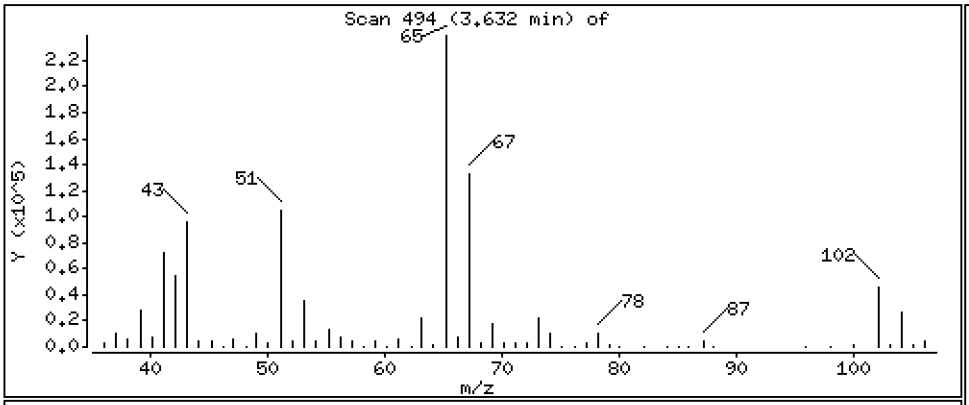
Client ID: Instrument: ms03.i

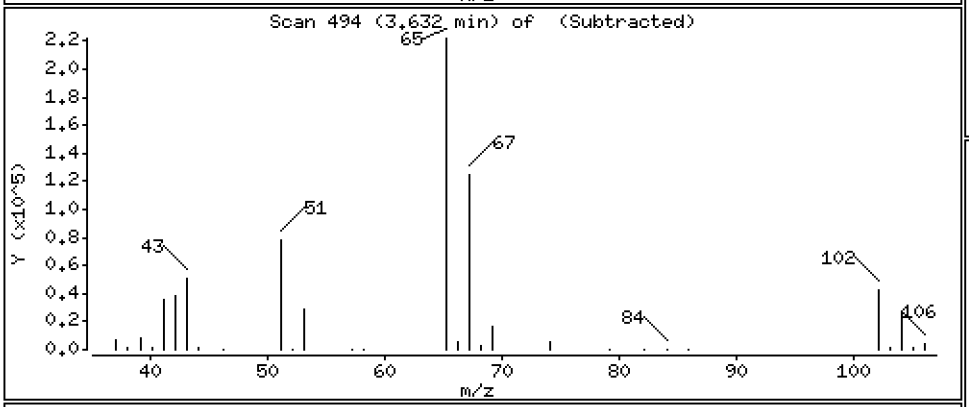
Sample Info: 1800;;1;2;4;;;

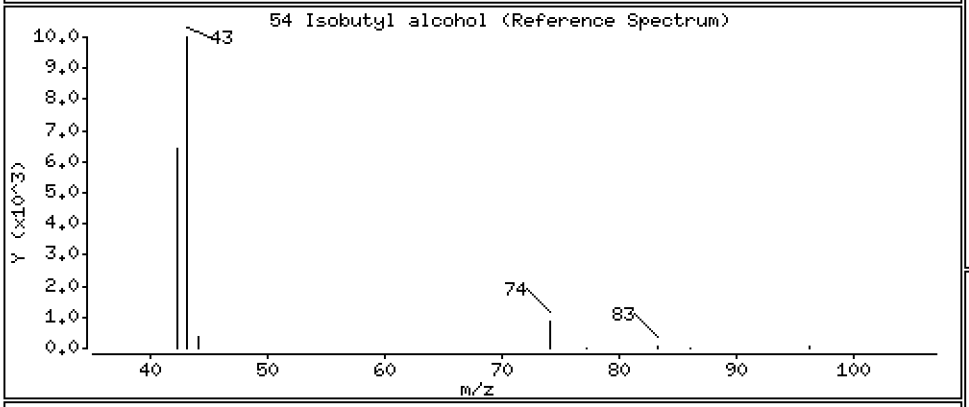
Purge Volume: 5.0 Operator: DD

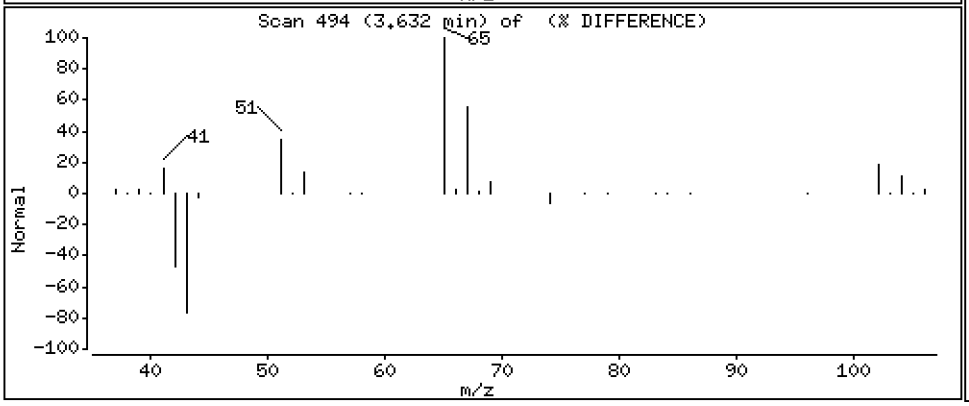
Column phase: DB-VRX Column diameter: 0.25

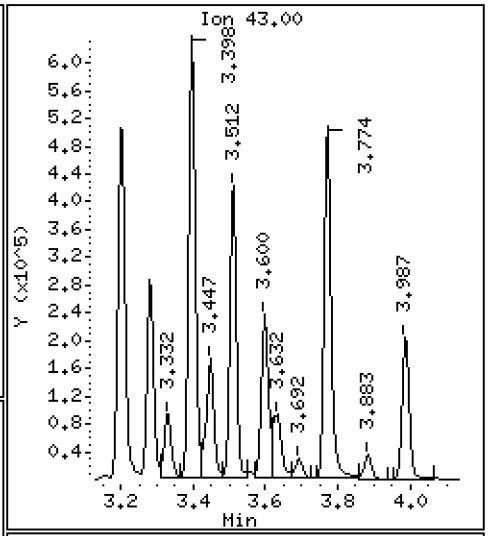
54 Isobutyl alcohol Concentration: 719.279 ug/L

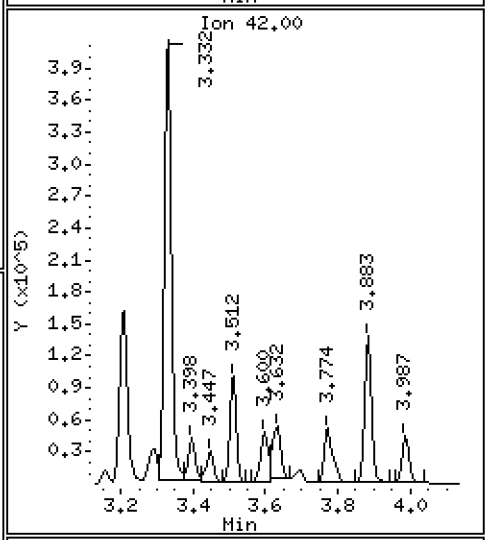


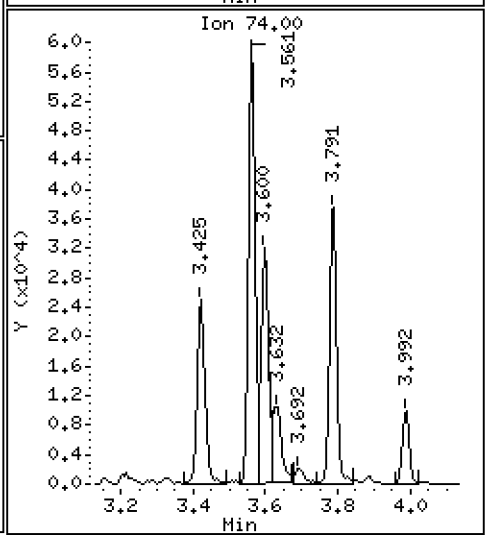












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 61

Date : 26-OCT-2016 09:18

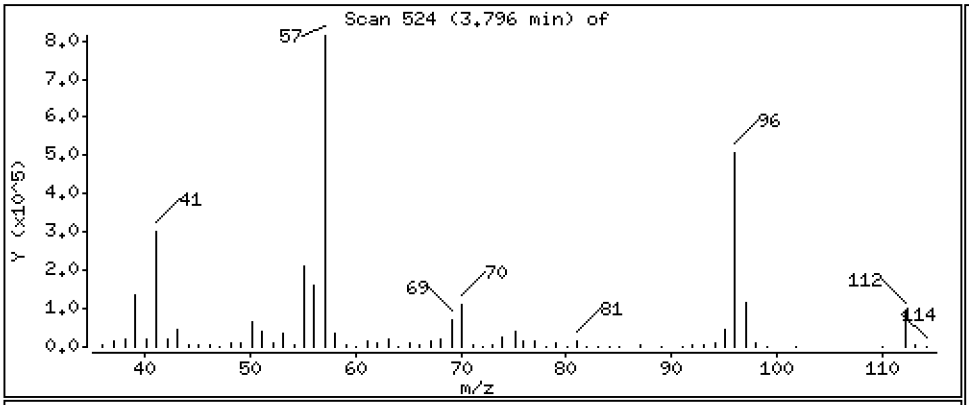
Client ID: Instrument: ms03.i

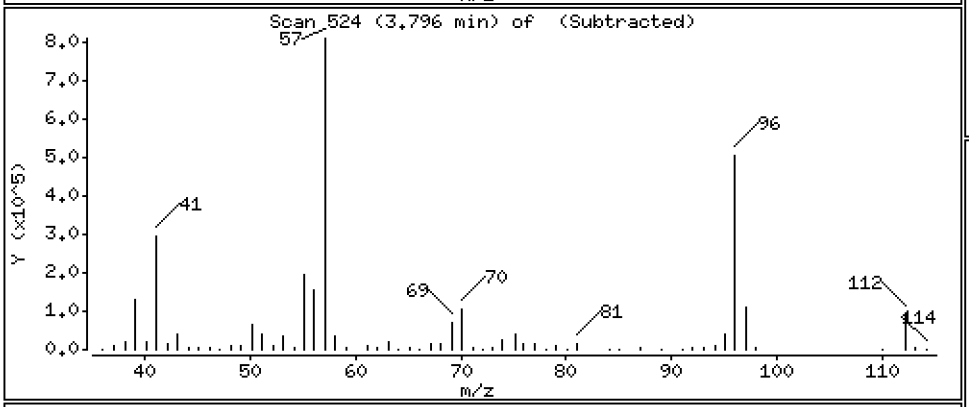
Sample Info: 1800;;1;2;4;;;

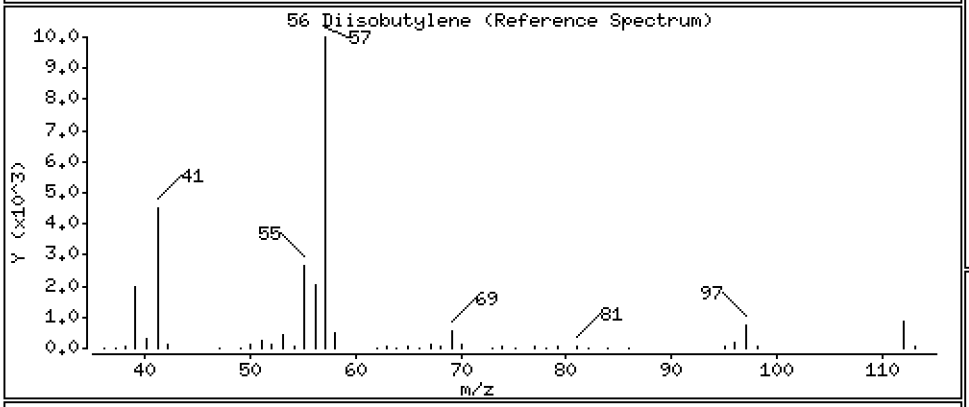
Purge Volume: 5.0 Operator: DD

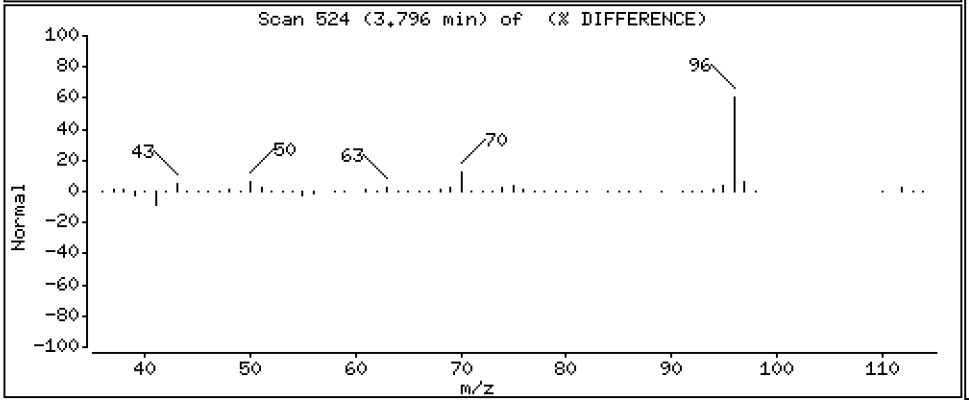
Column phase: DB-VRX Column diameter: 0.25

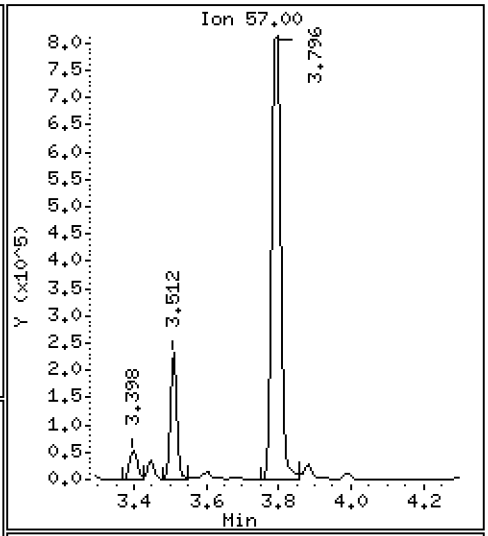
56 Diisobutylene Concentration: 60.4641 ug/L

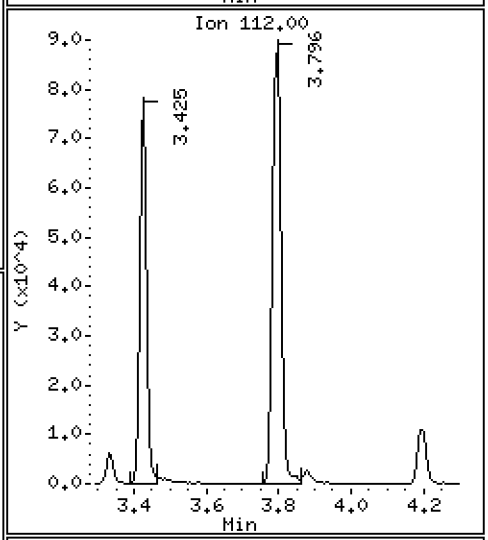


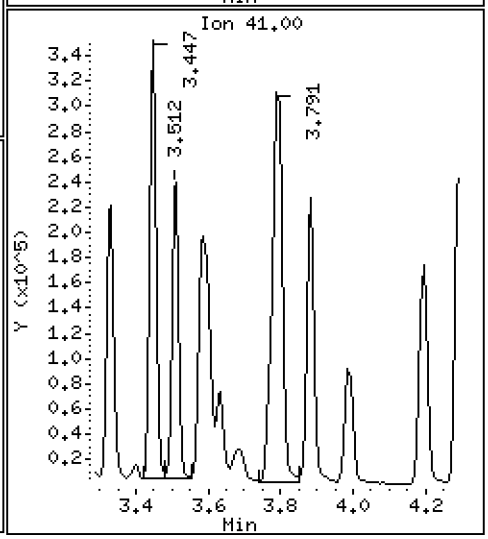












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 62

Date : 26-OCT-2016 09:18

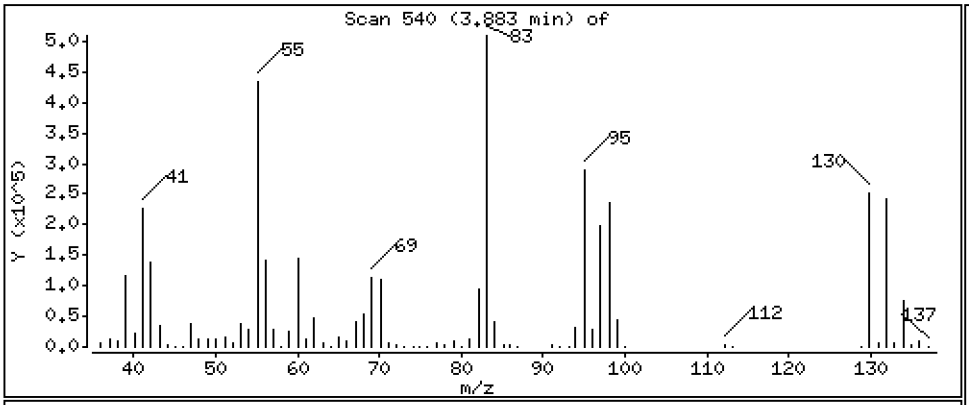
Client ID: Instrument: ms03.i

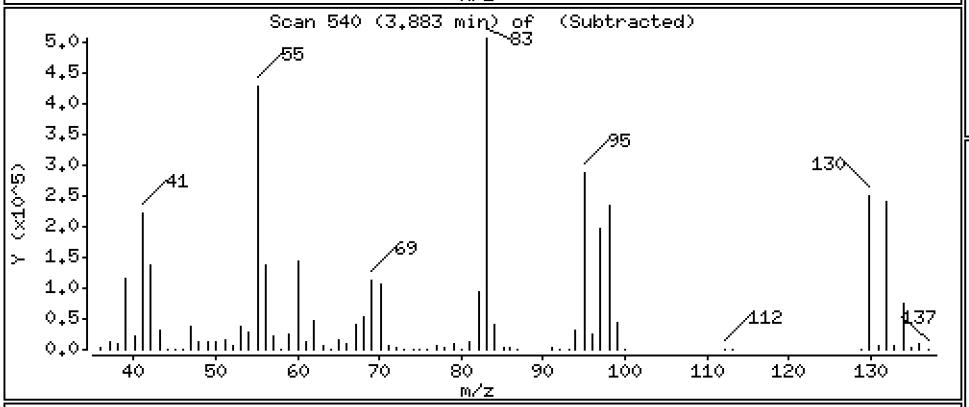
Sample Info: 1800;;1;2;4;;;

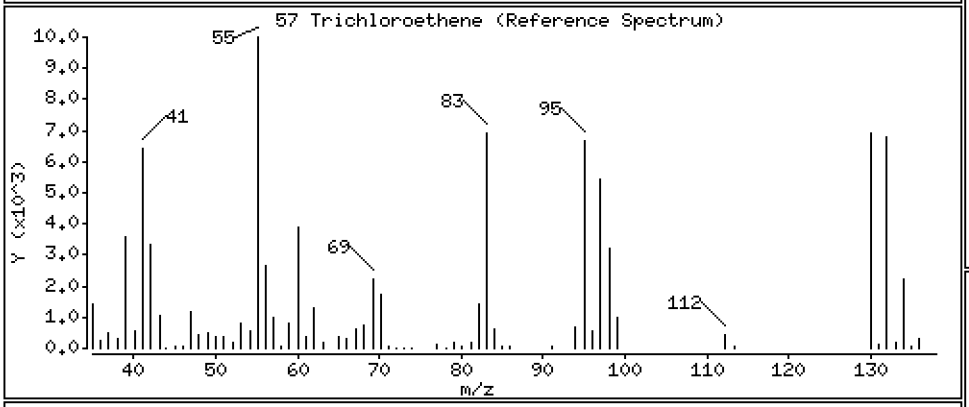
Purge Volume: 5.0 Operator: DD

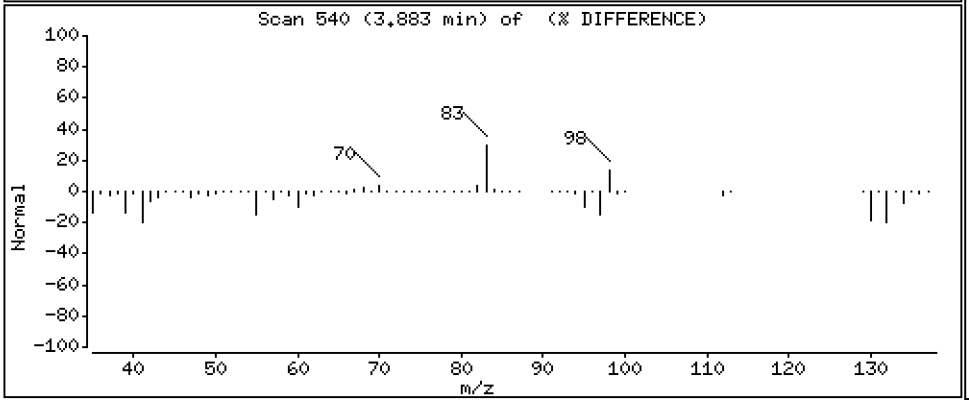
Column phase: DB-VRX Column diameter: 0.25

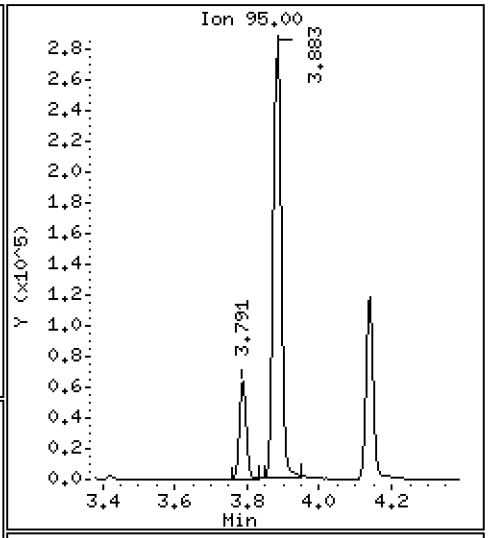
57 Trichloroethene Concentration: 44.0357 ug/L

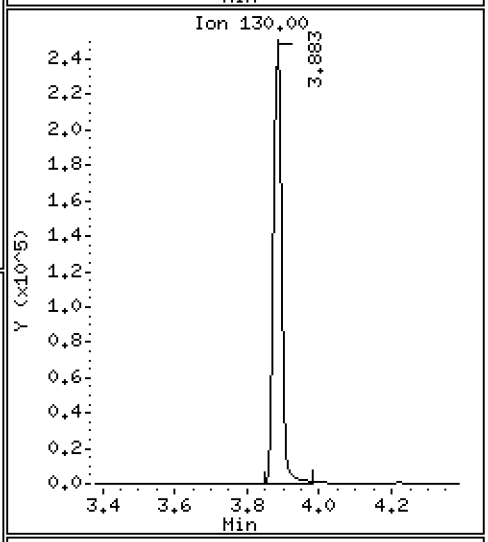


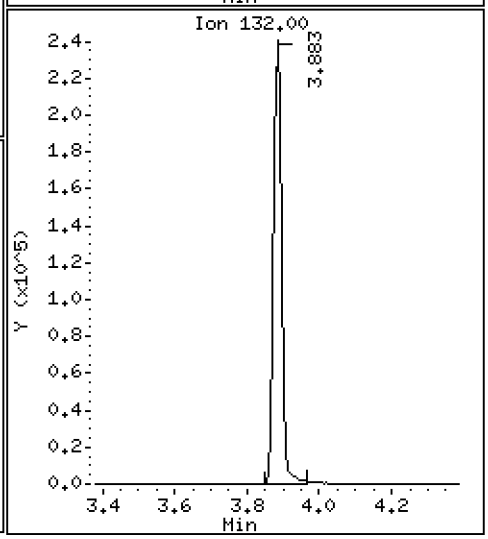












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 63

Date : 26-OCT-2016 09:18

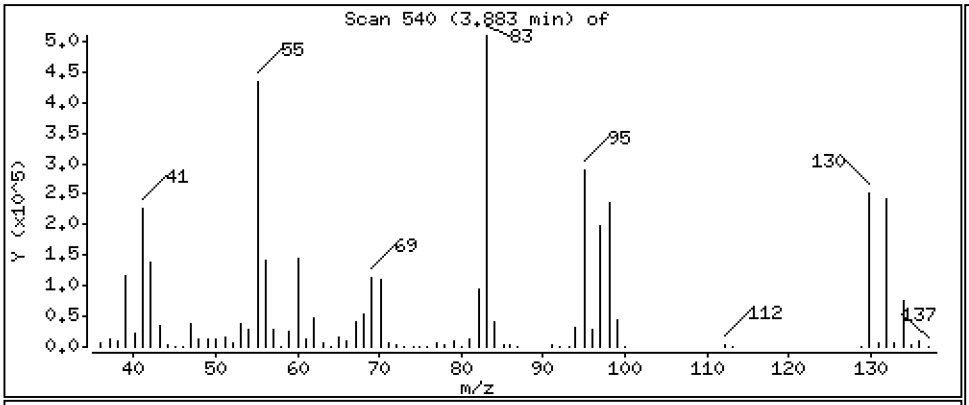
Client ID: Instrument: ms03.i

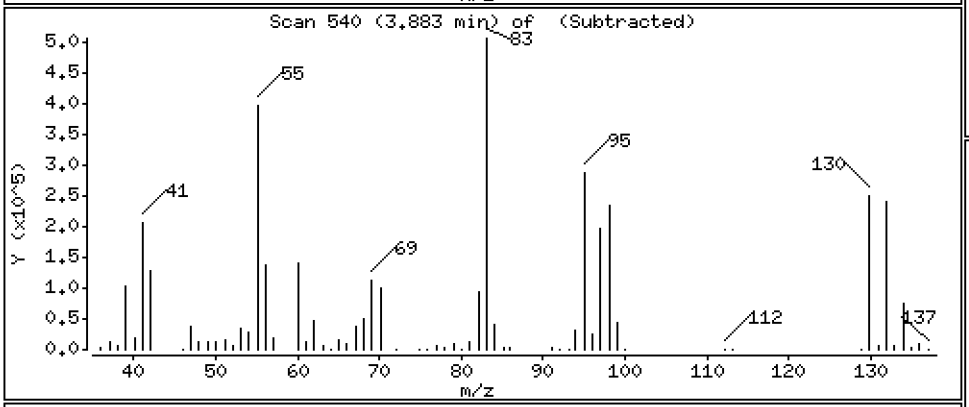
Sample Info: 1800;;1;2;4;;;

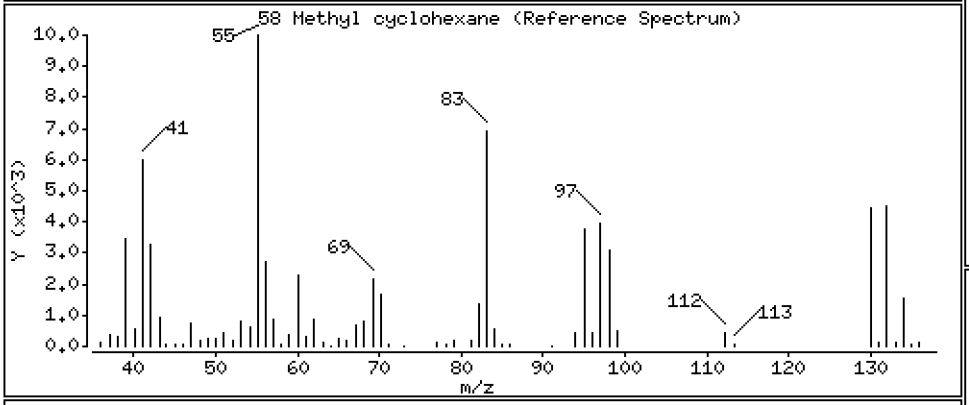
Purge Volume: 5.0 Operator: DD

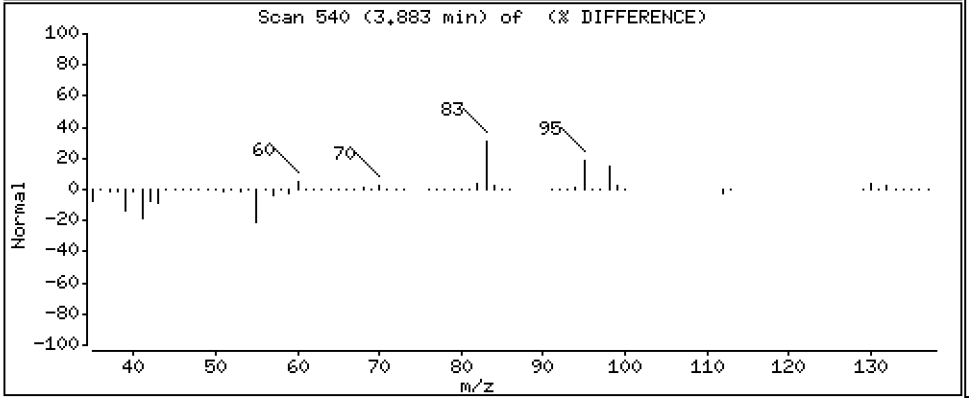
Column phase: DB-VRX Column diameter: 0.25

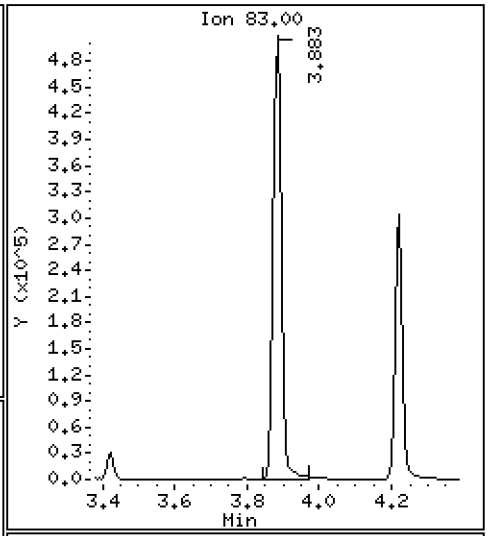
58 Methyl cyclohexane Concentration: 50.1016 ug/L

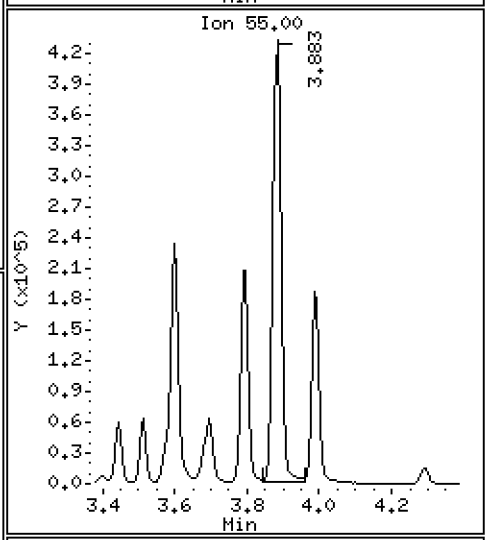


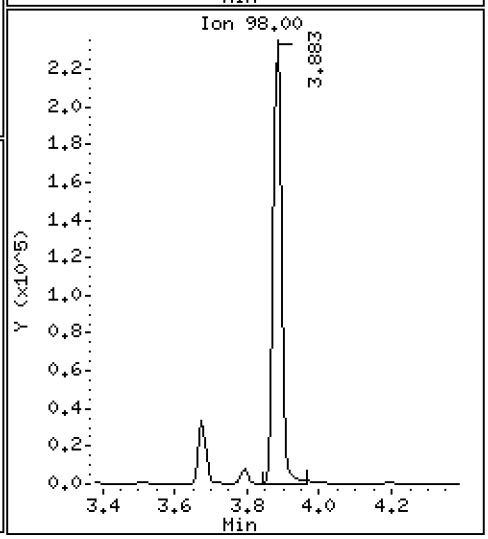












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 64

Date : 26-OCT-2016 09:18

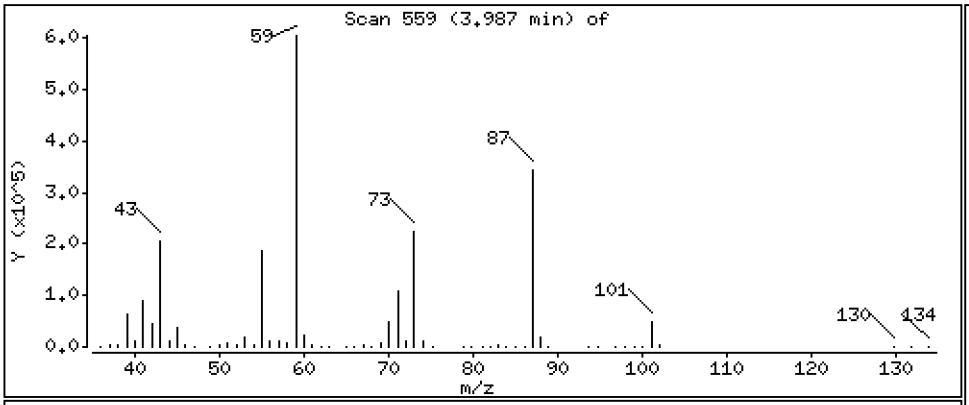
Client ID: Instrument: ms03.i

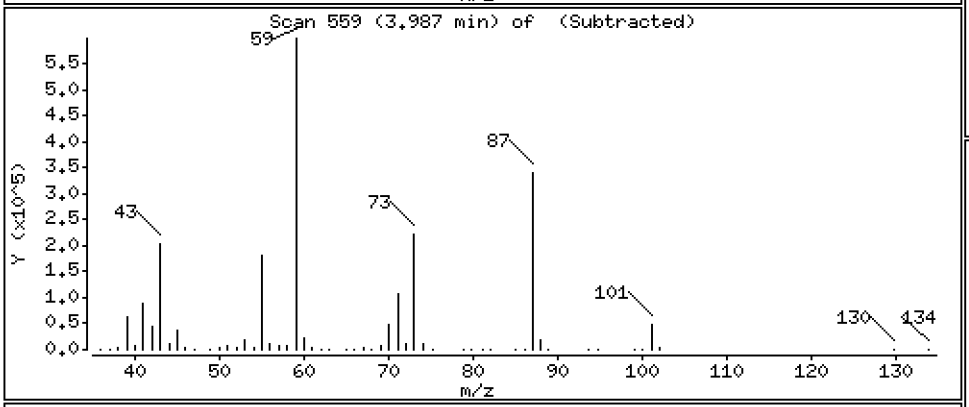
Sample Info: 1800;;1;2;4;;;

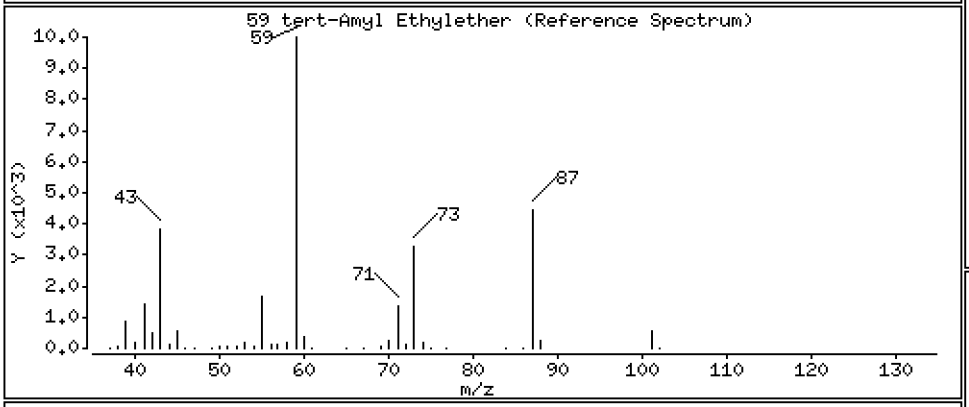
Purge Volume: 5.0 Operator: DD

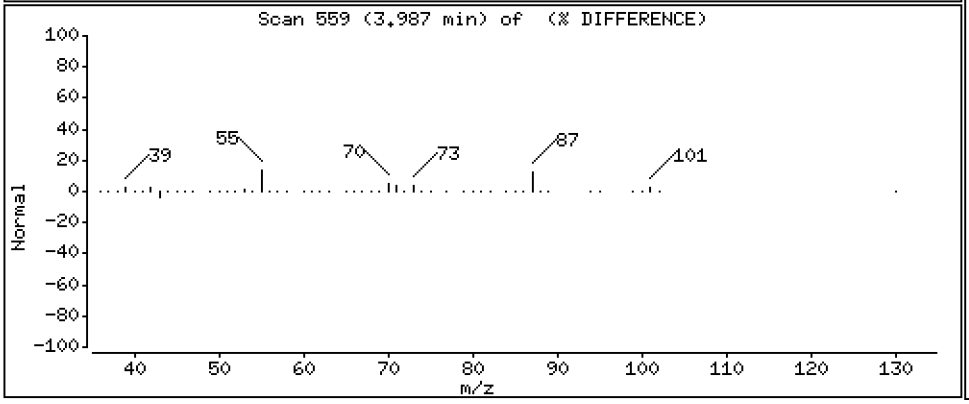
Column phase: DB-VRX Column diameter: 0.25

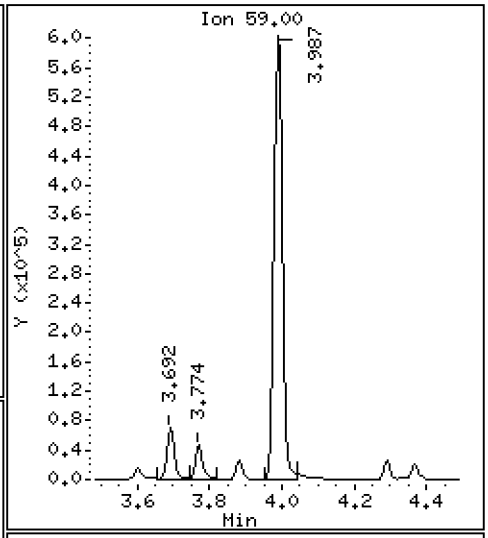
59 tert-Amyl Ethylether Concentration: 51.4997 ug/L

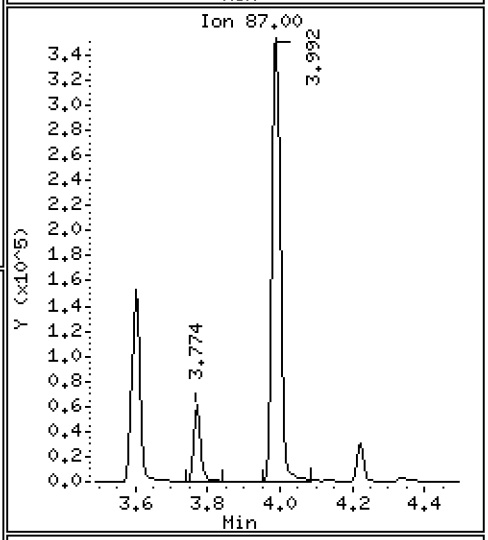


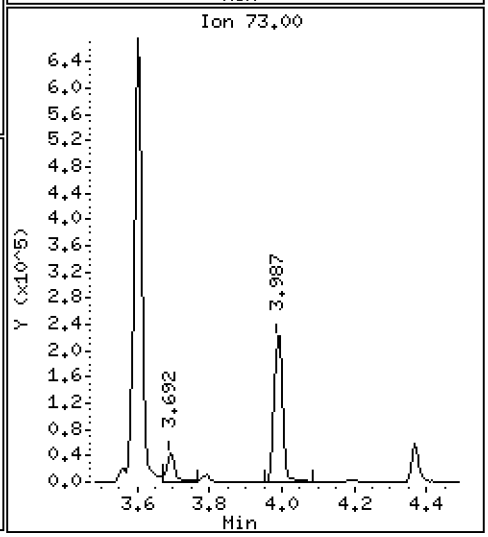












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 65

Date : 26-OCT-2016 09:18

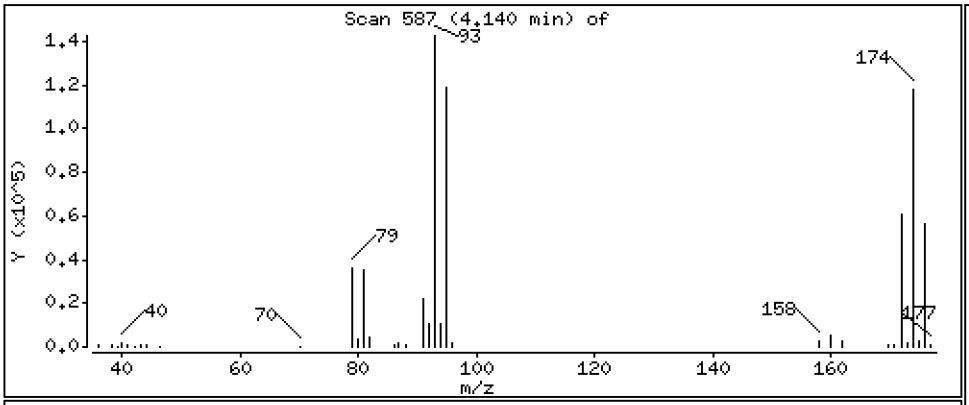
Client ID: Instrument: ms03.i

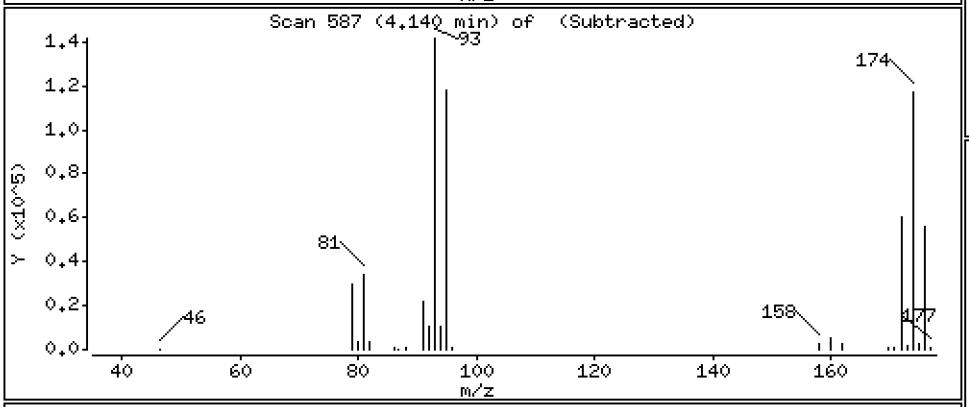
Sample Info: 1800;;1;2;4;;;

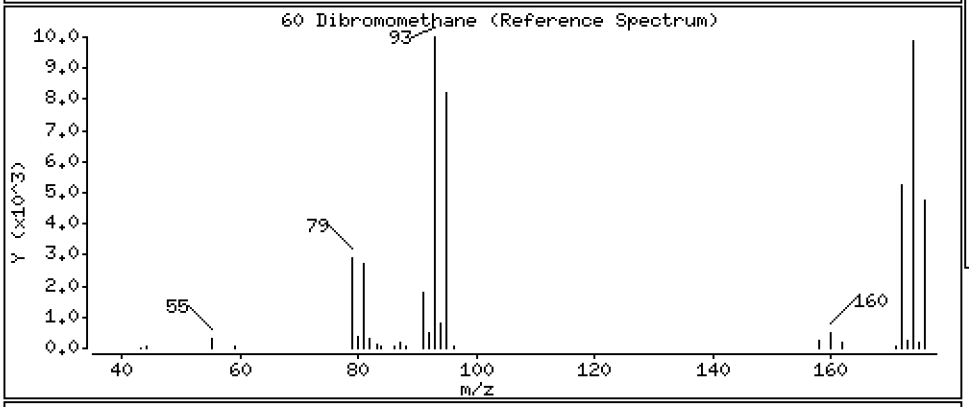
Purge Volume: 5.0 Operator: DD

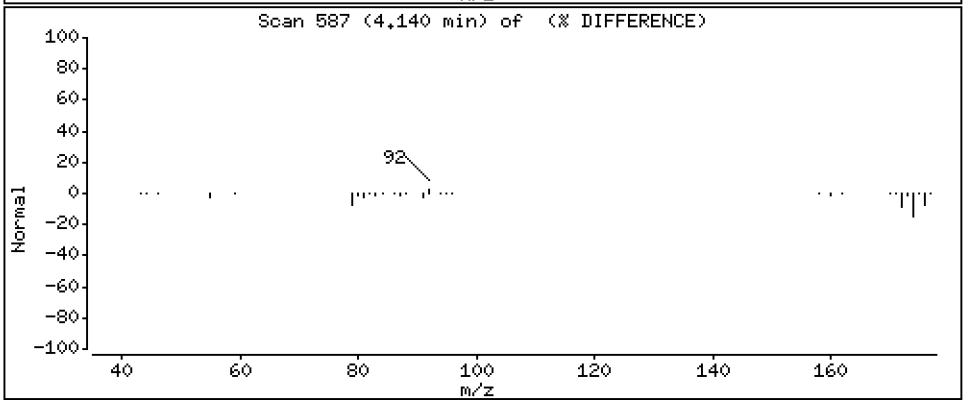
Column phase: DB-VRX Column diameter: 0.25

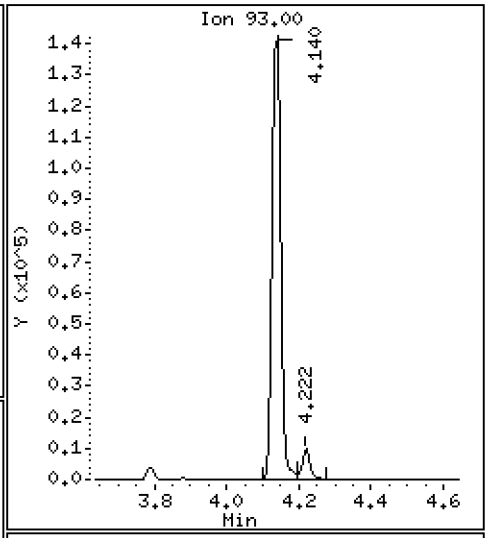
60 Dibromomethane Concentration: 47.0802 ug/L

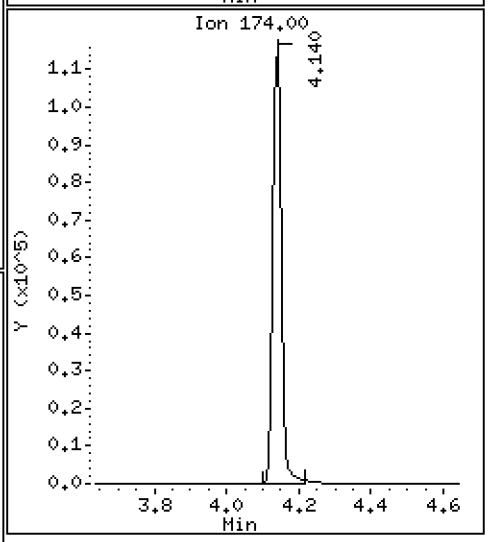












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 66

Date : 26-OCT-2016 09:18

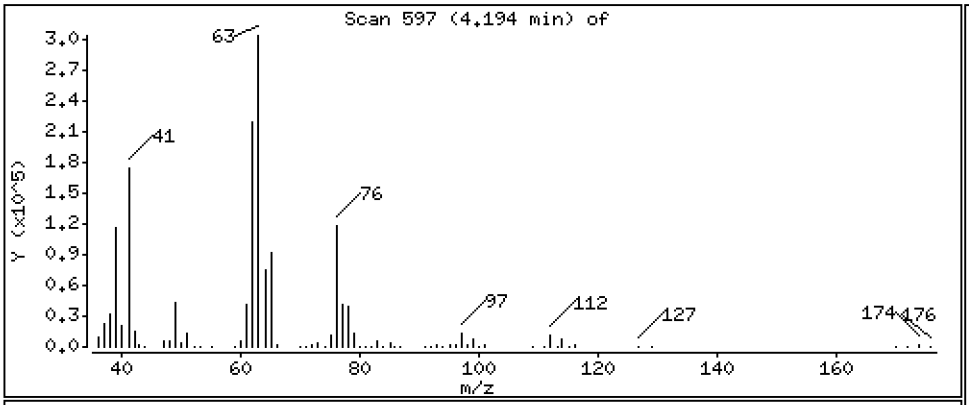
Client ID: Instrument: ms03.i

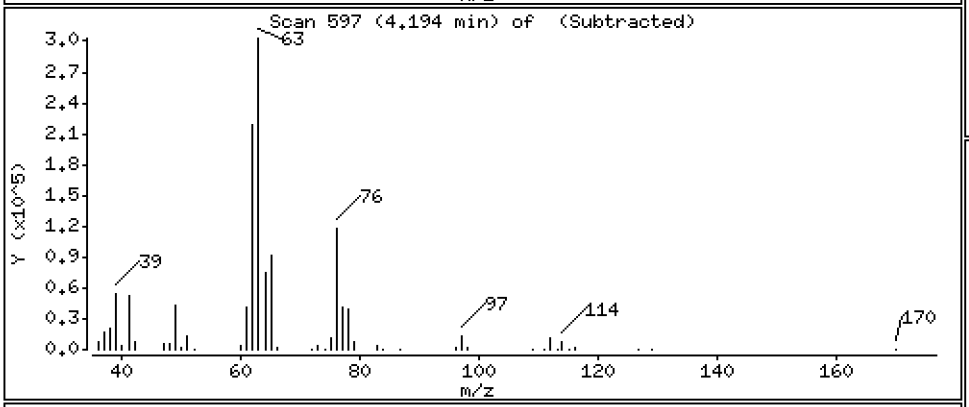
Sample Info: 1800;;1;2;4;;;

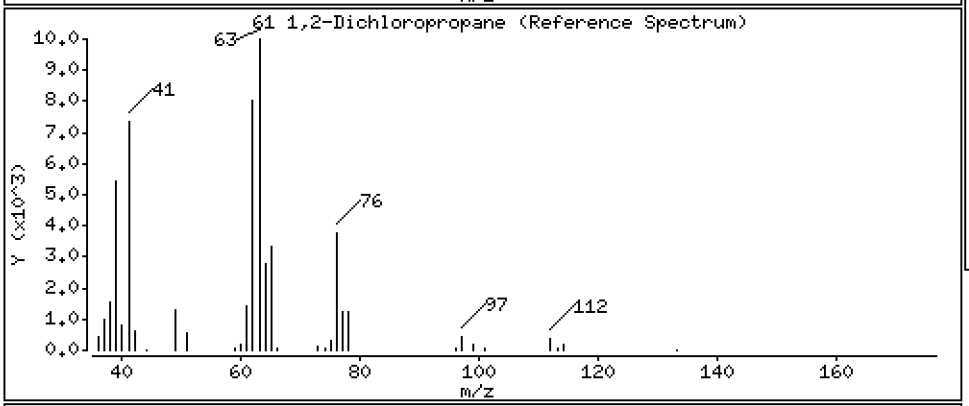
Purge Volume: 5.0 Operator: DD

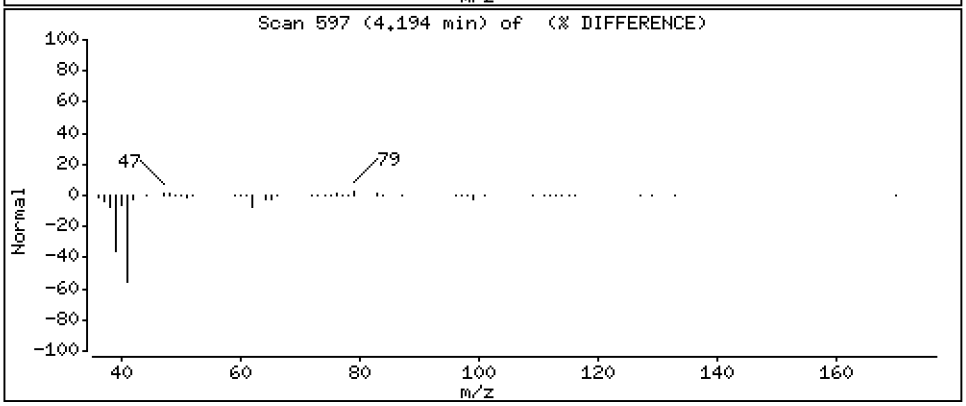
Column phase: DB-VRX Column diameter: 0.25

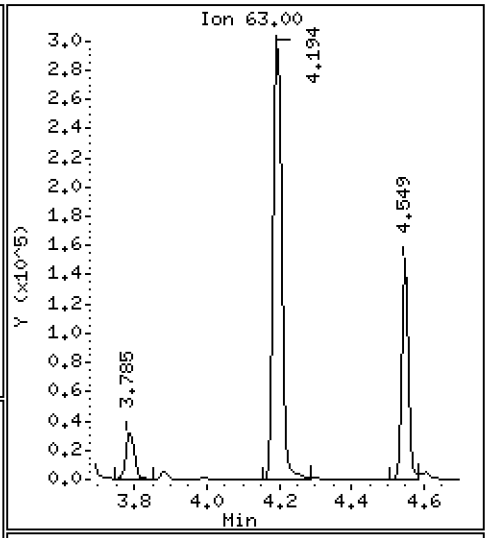
61 1,2-Dichloropropane Concentration: 48.9893 ug/L

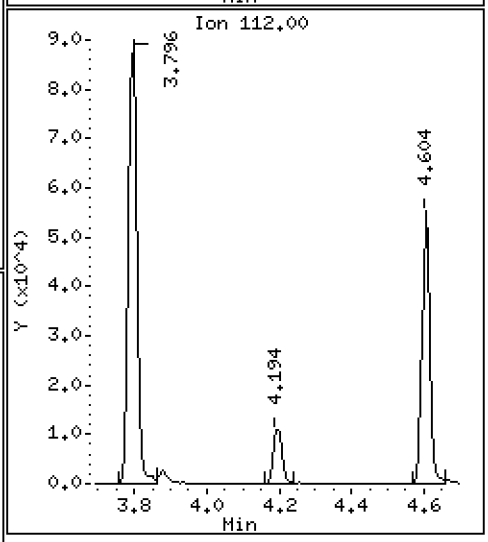












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 67

Date : 26-OCT-2016 09:18

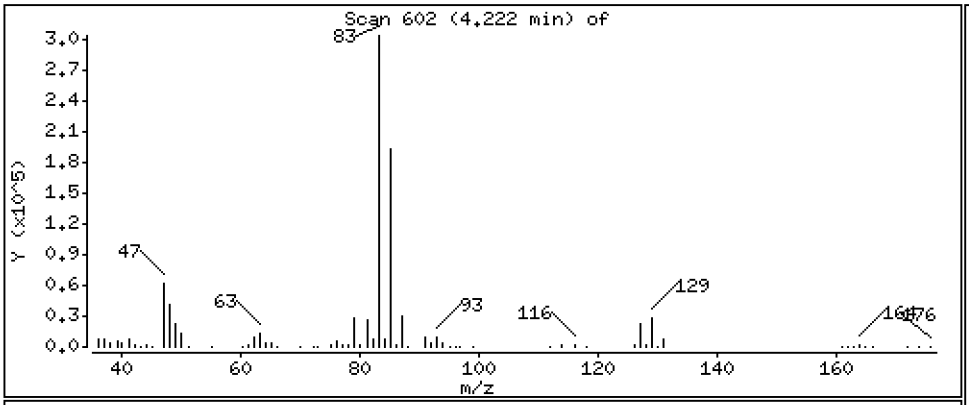
Client ID: Instrument: ms03.i

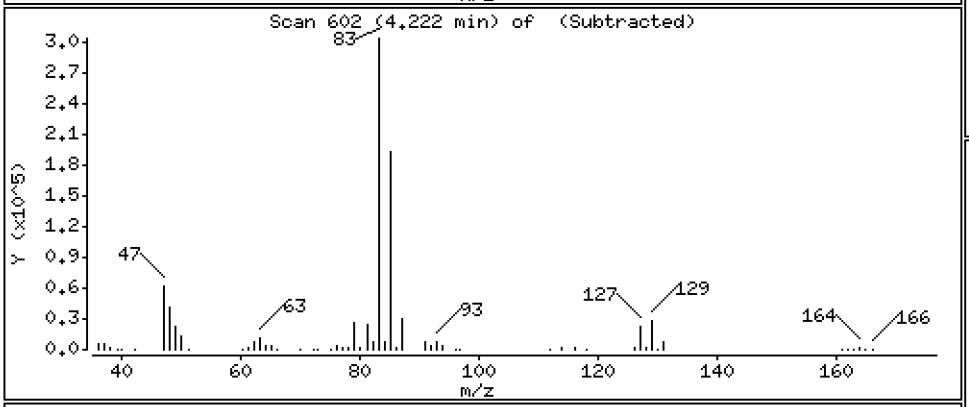
Sample Info: 1800;;1;2;4;;;

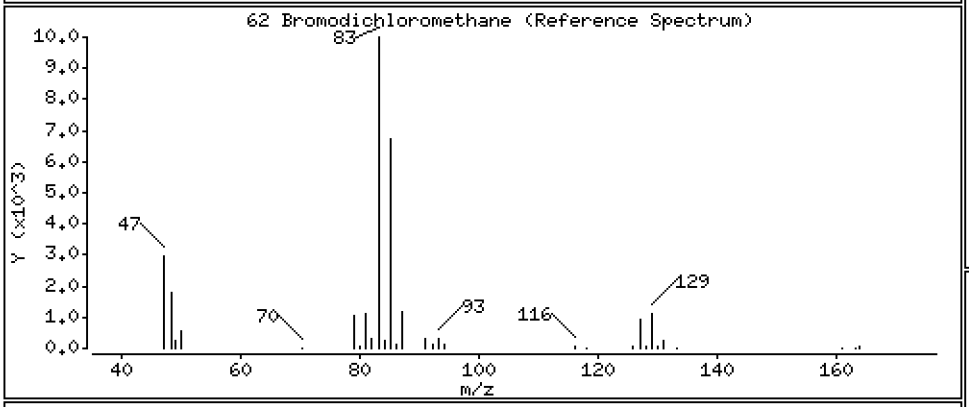
Purge Volume: 5.0 Operator: DD

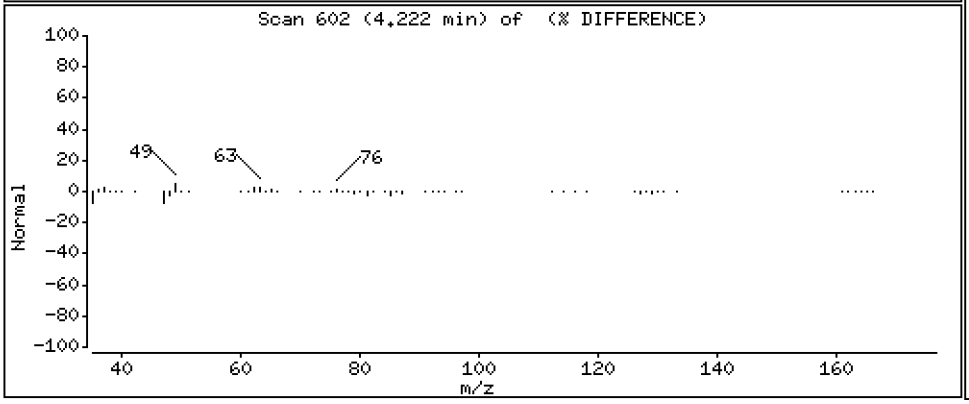
Column phase: DB-VRX Column diameter: 0.25

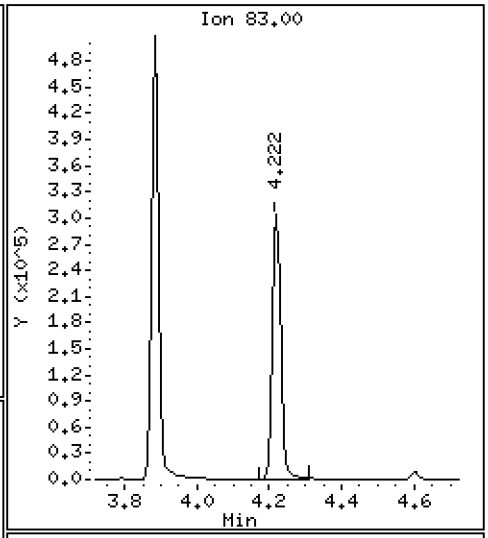
62 Bromodichloromethane Concentration: 49.0951 ug/L

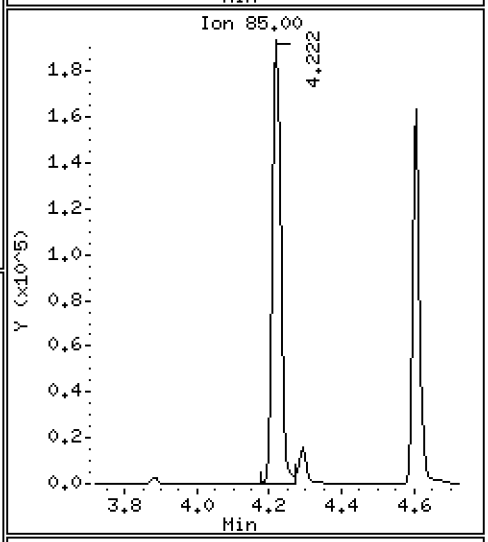


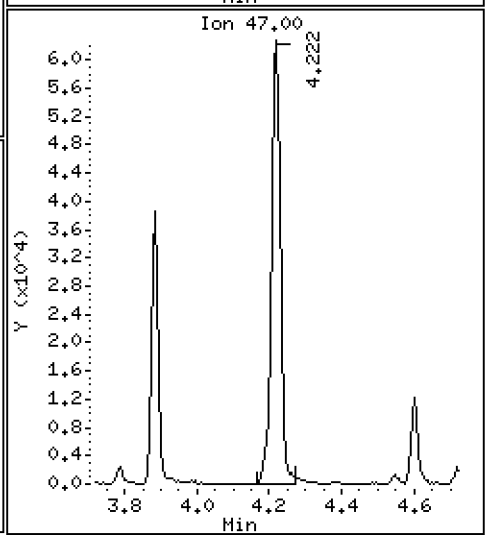












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 68

Date : 26-OCT-2016 09:18

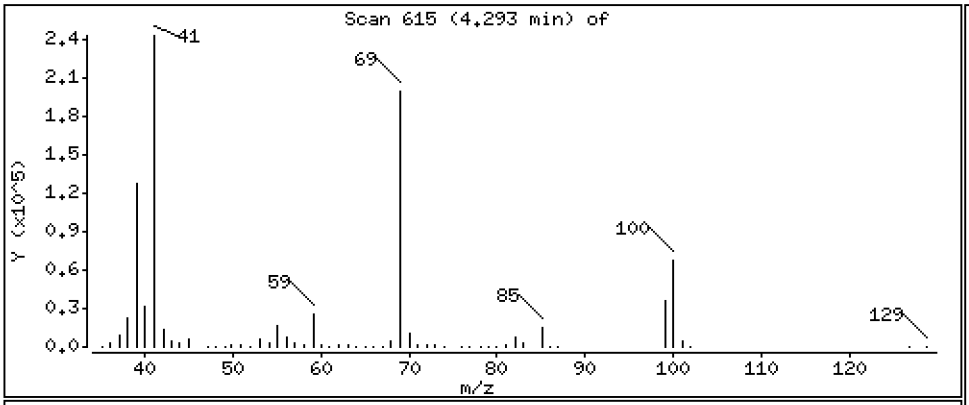
Client ID: Instrument: ms03.i

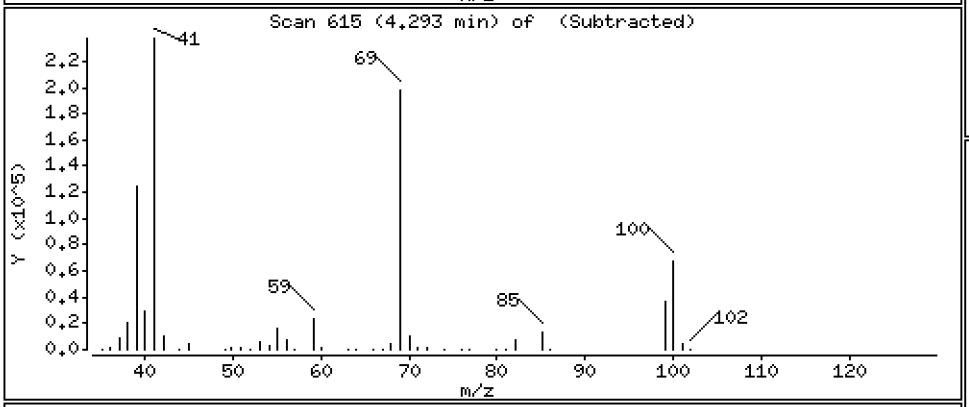
Sample Info: 1800;;1;2;4;;;

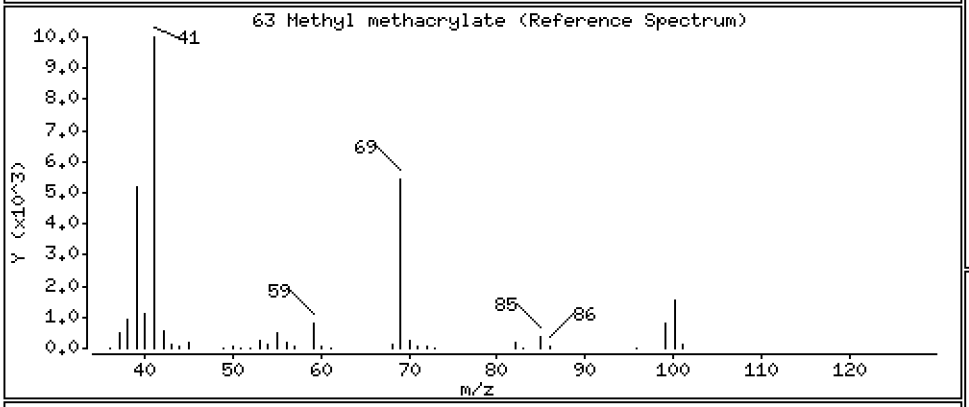
Purge Volume: 5.0 Operator: DD

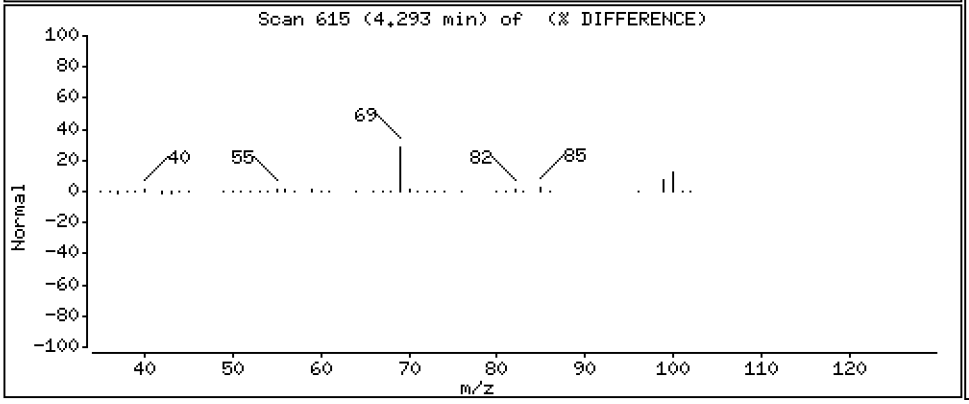
Column phase: DB-VRX Column diameter: 0.25

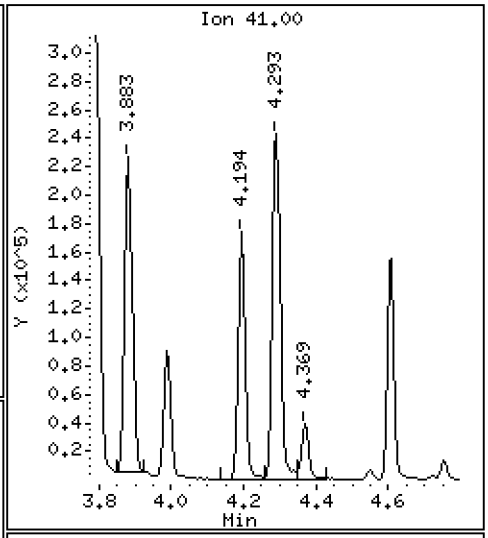
63 Methyl methacrylate Concentration: 55.1851 ug/L

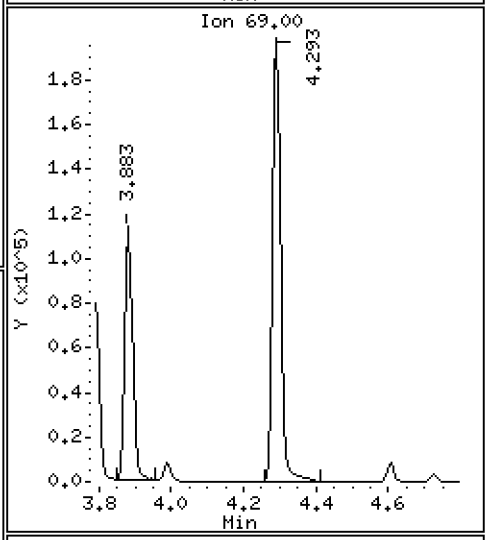


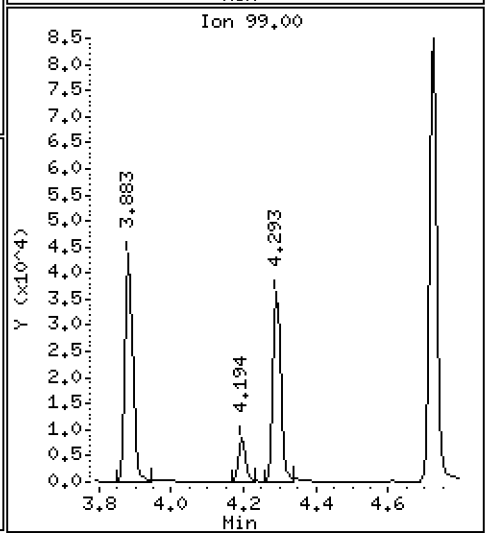












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 69

Date : 26-OCT-2016 09:18

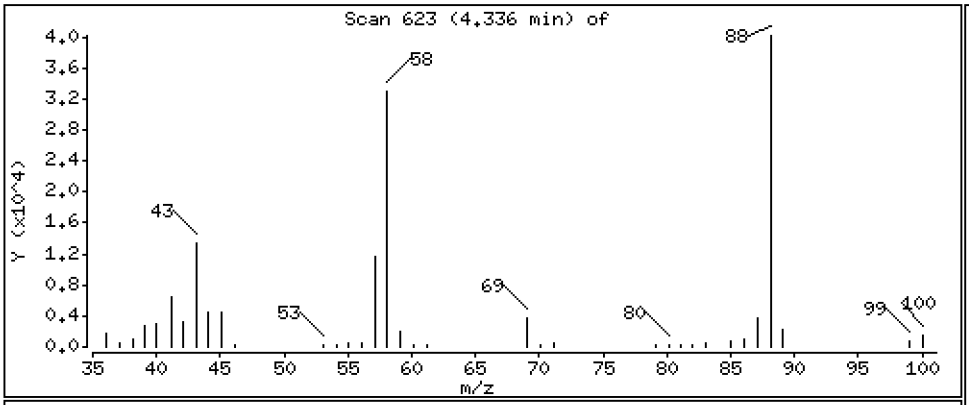
Client ID: Instrument: ms03.i

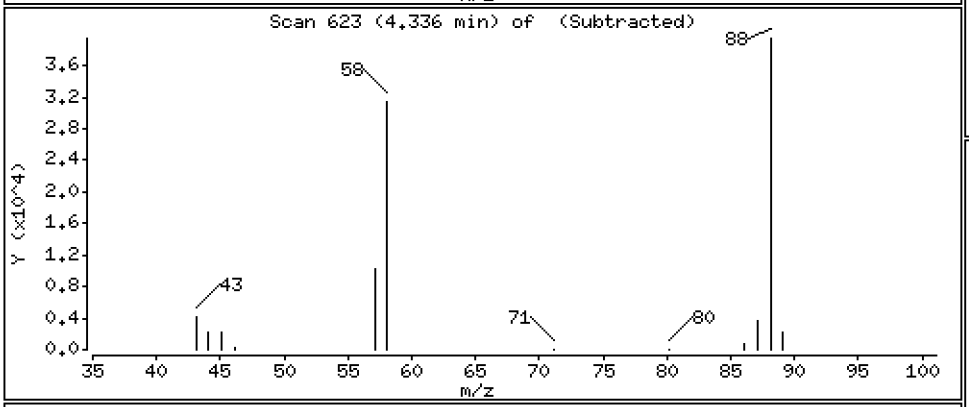
Sample Info: 1800;;1;2;4;;;

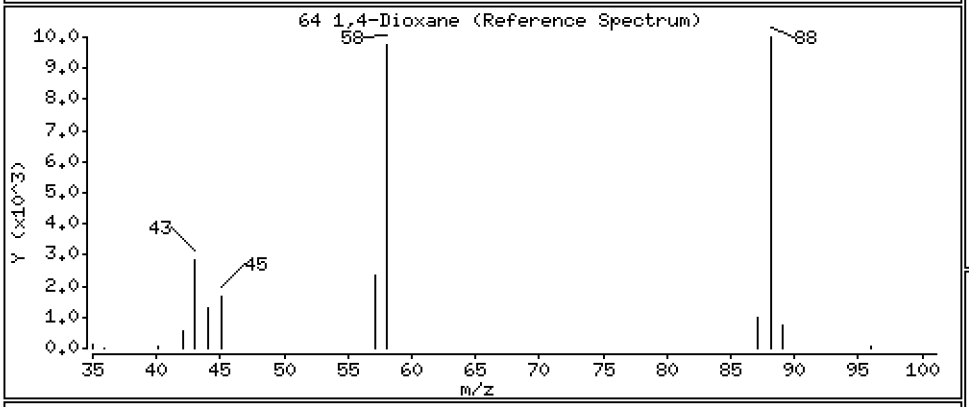
Purge Volume: 5.0 Operator: DD

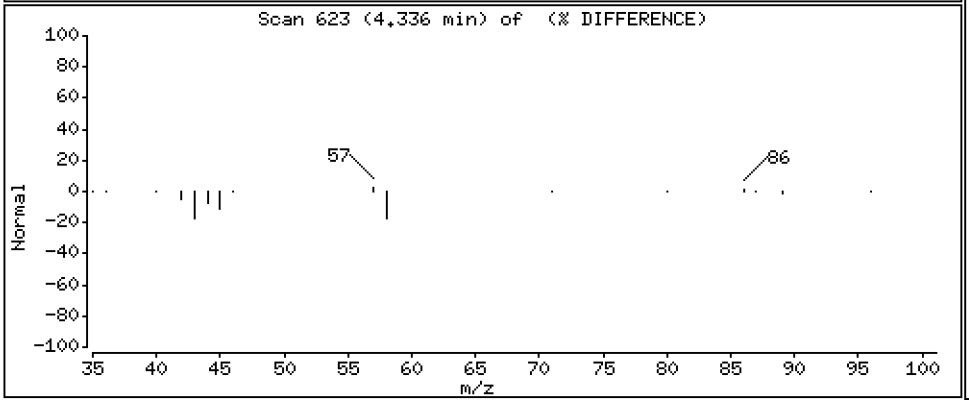
Column phase: DB-VRX Column diameter: 0.25

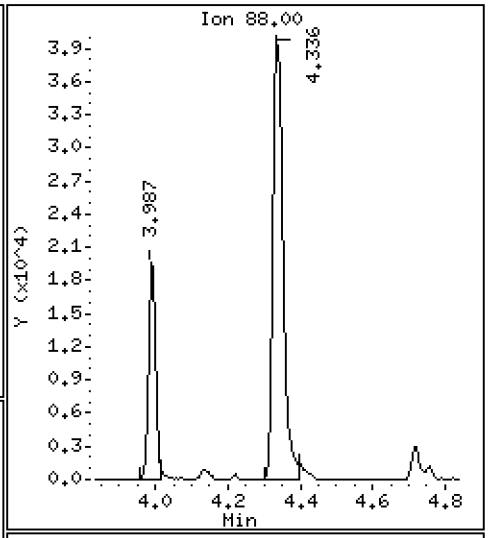
64 1,4-Dioxane Concentration: 2365.87 ug/L

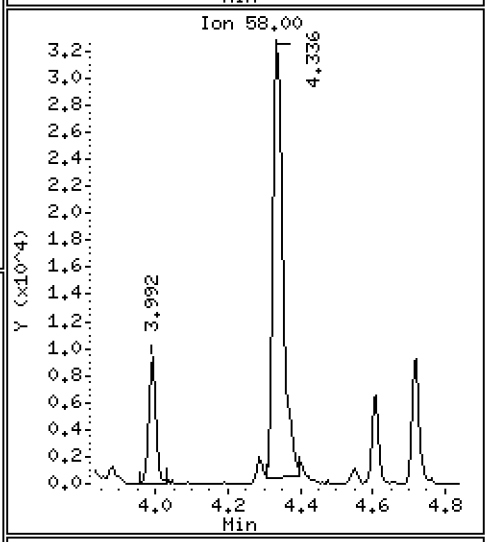


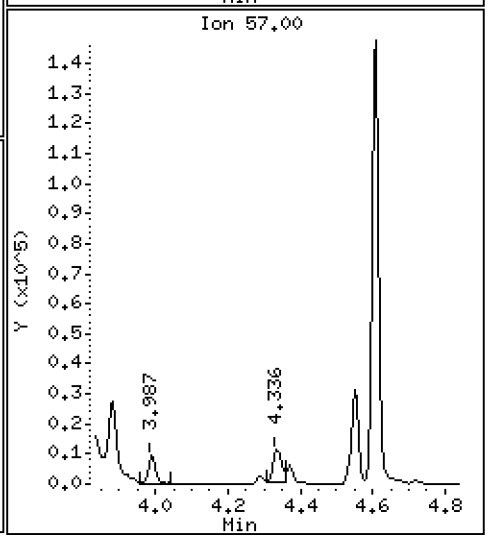












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 70

Date : 26-OCT-2016 09:18

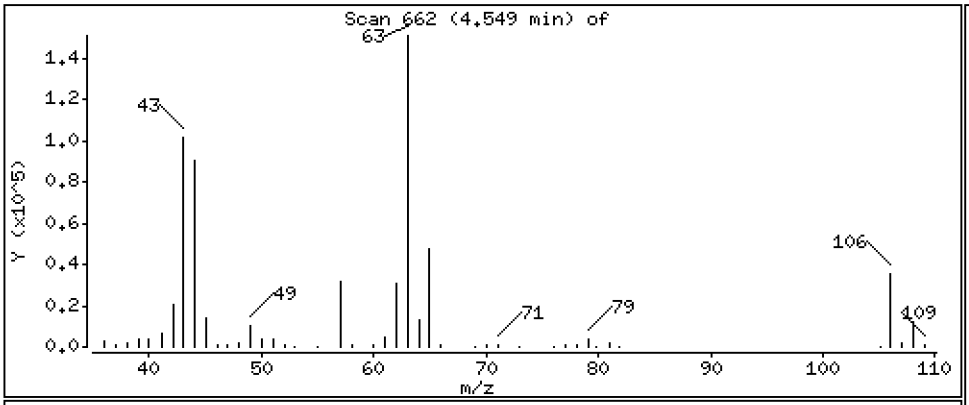
Client ID: Instrument: ms03.i

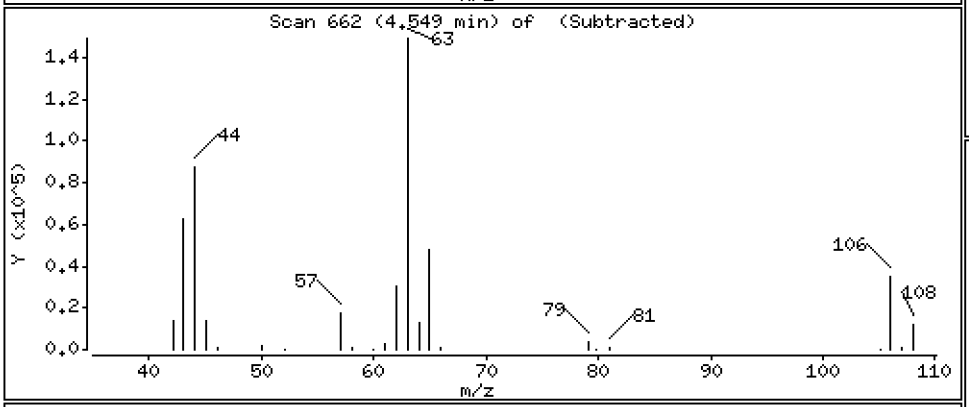
Sample Info: 1800;;1;2;4;;;

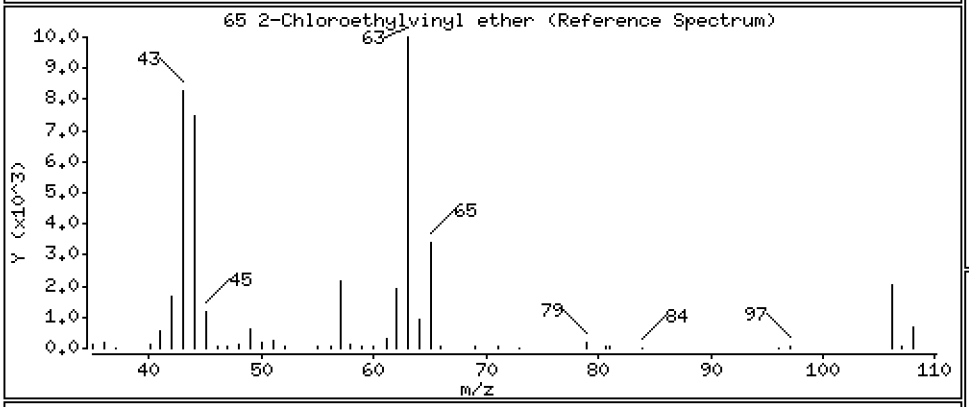
Purge Volume: 5.0 Operator: DD

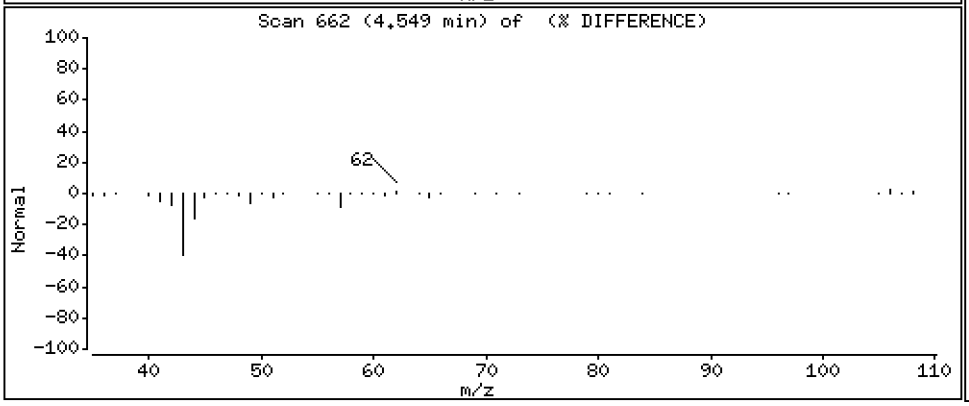
Column phase: DB-VRX Column diameter: 0.25

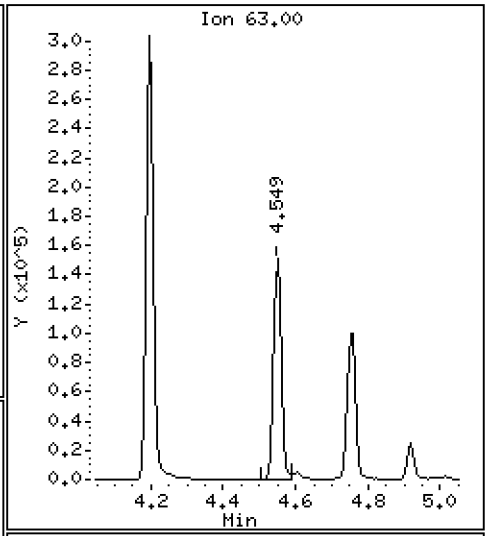
65 2-Chloroethylvinyl ether Concentration: 45.6395 ug/L

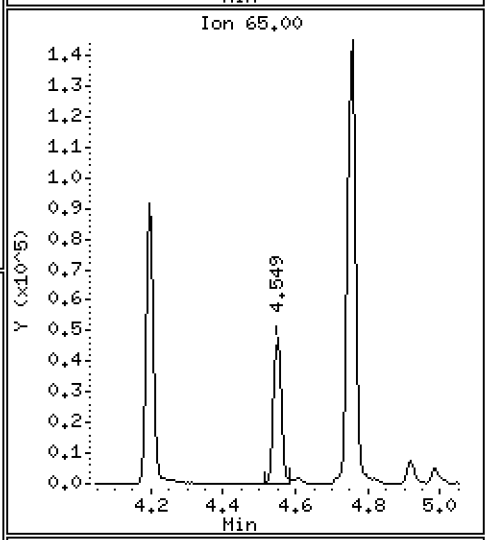


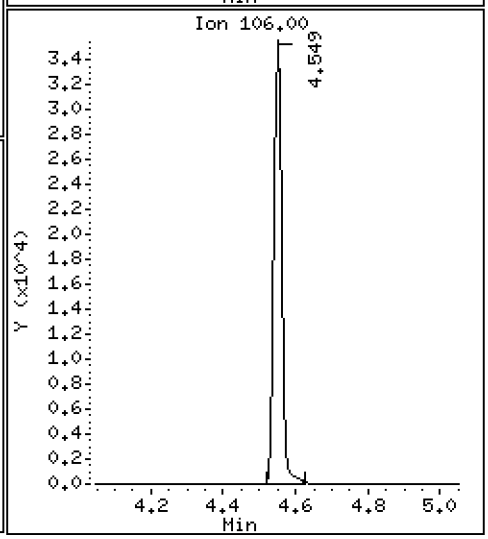












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 71

Date : 26-OCT-2016 09:18

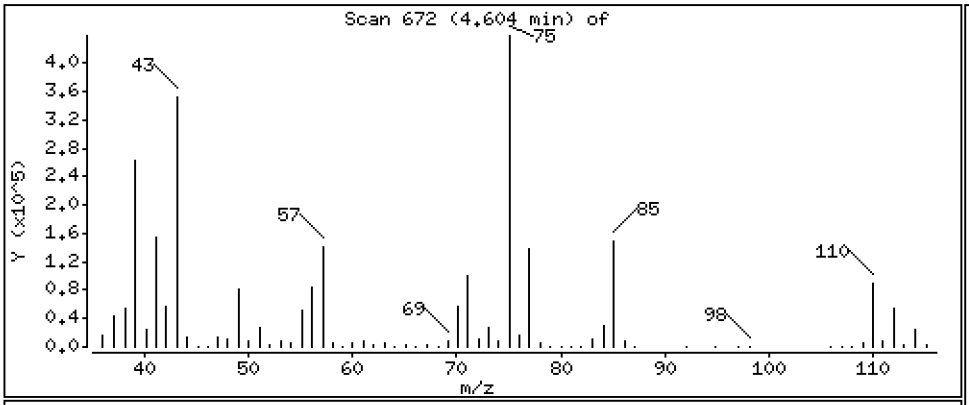
Client ID: Instrument: ms03.i

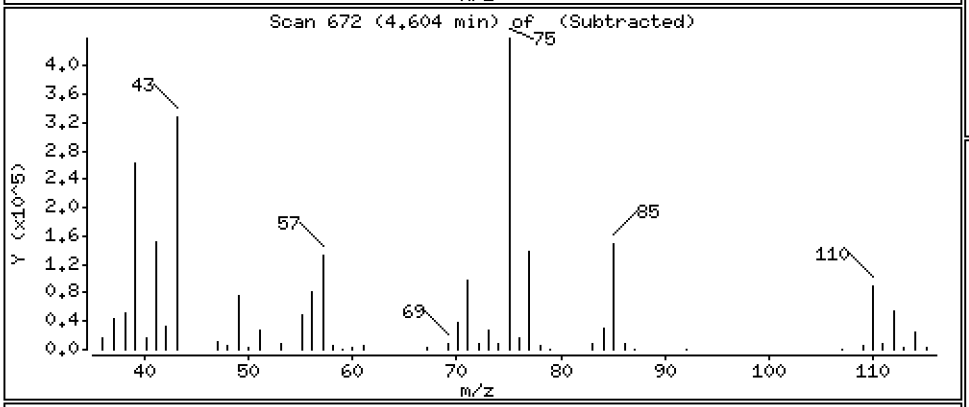
Sample Info: 1800;;1;2;4;;;

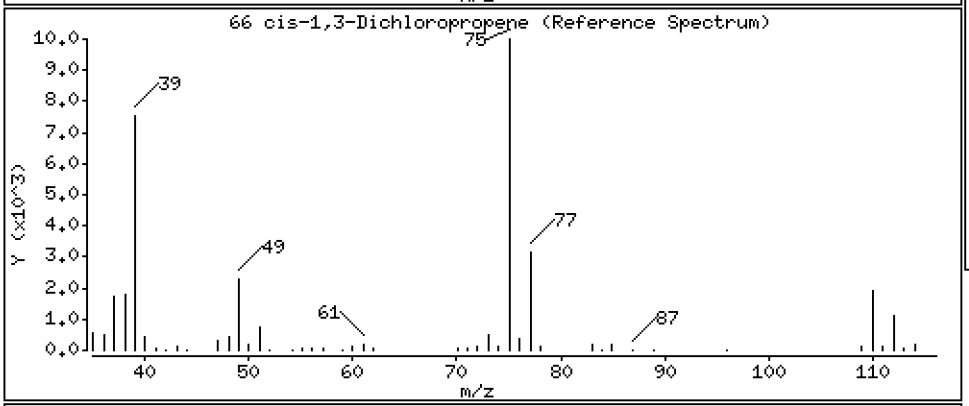
Purge Volume: 5.0 Operator: DD

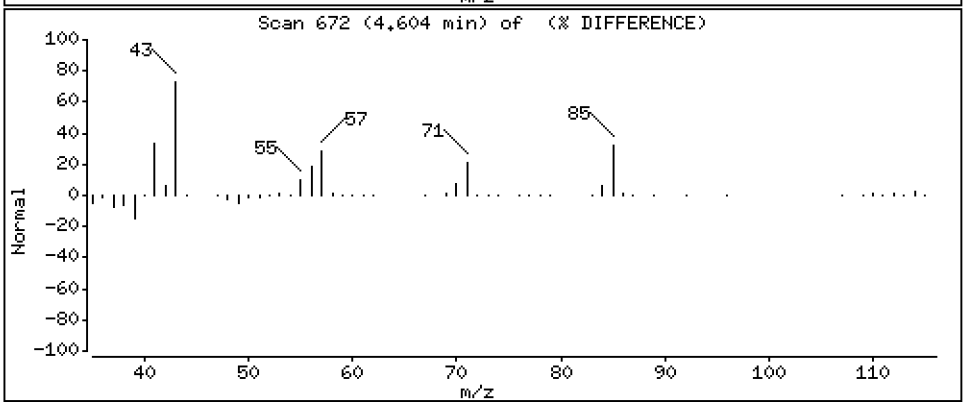
Column phase: DB-VRX Column diameter: 0.25

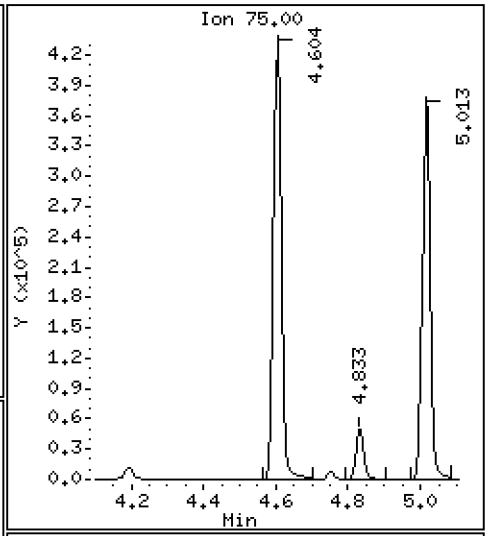
66 cis-1,3-Dichloropropene Concentration: 50.7376 ug/L

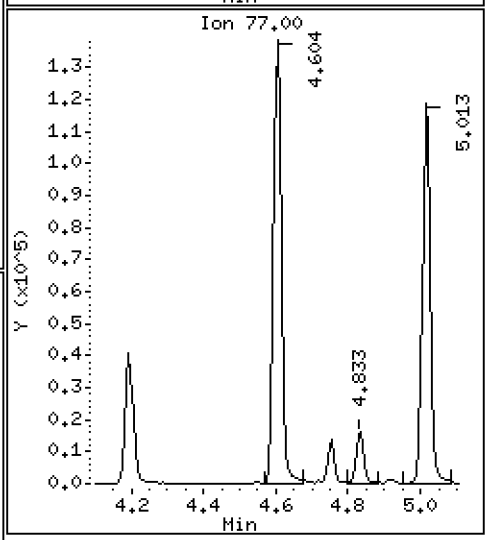












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 72

Date : 26-OCT-2016 09:18

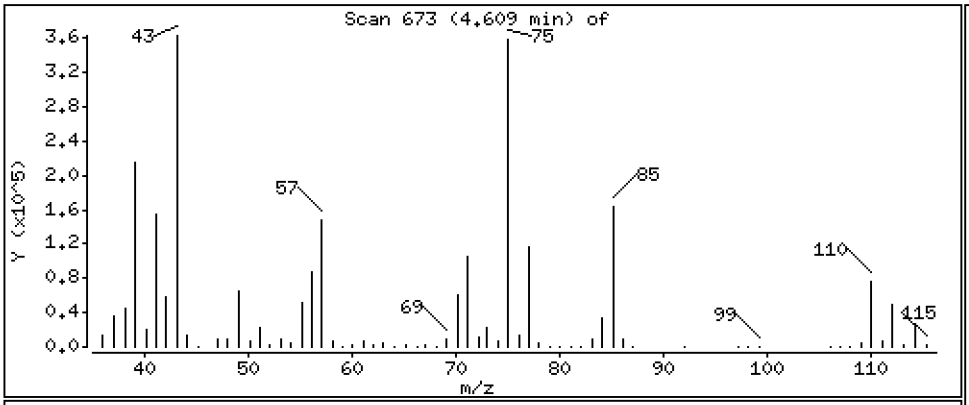
Client ID: Instrument: ms03.i

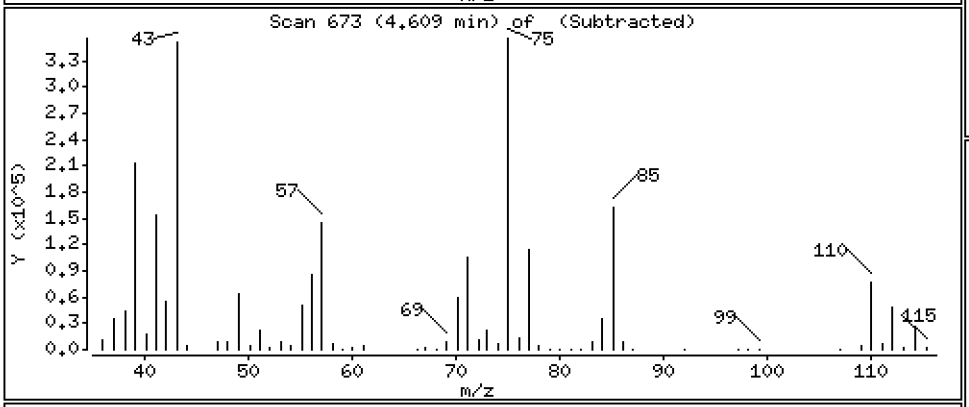
Sample Info: 1800;;1;2;4;;;

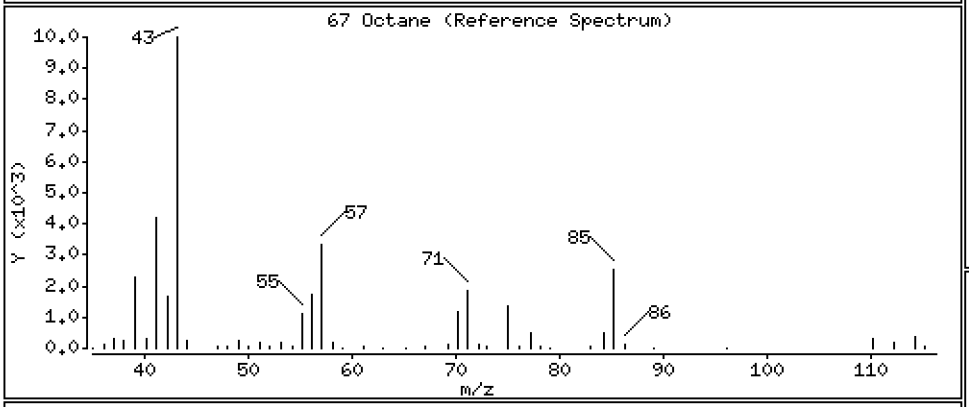
Purge Volume: 5.0 Operator: DD

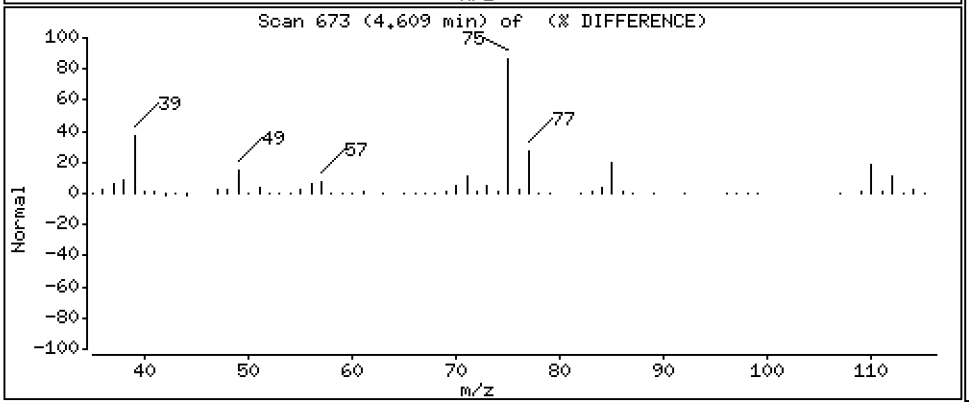
Column phase: DB-VRX Column diameter: 0.25

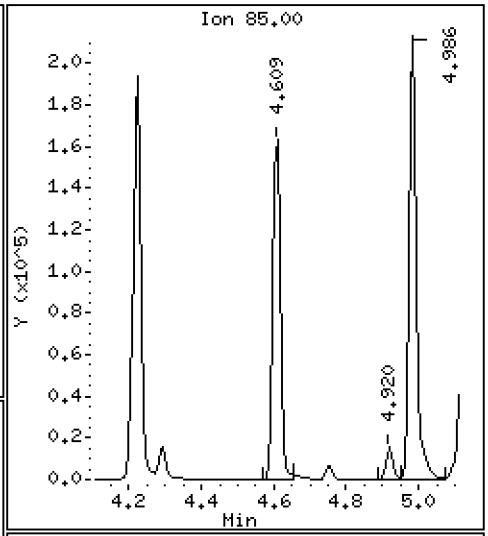
67 Octane Concentration: 59.3509 ug/L

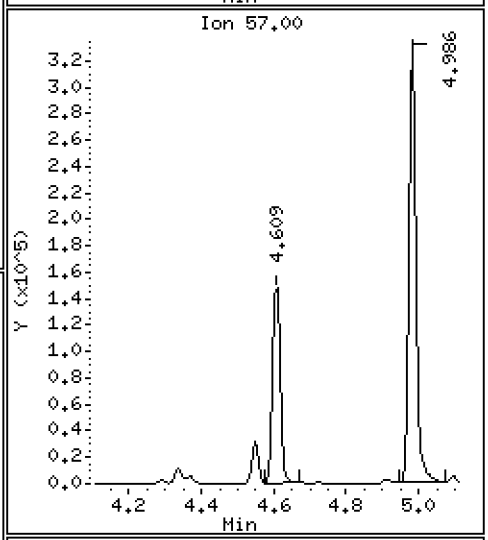


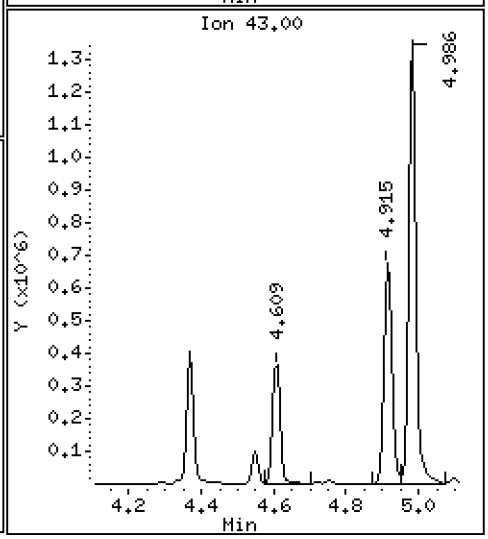












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 73

Date : 26-OCT-2016 09:18

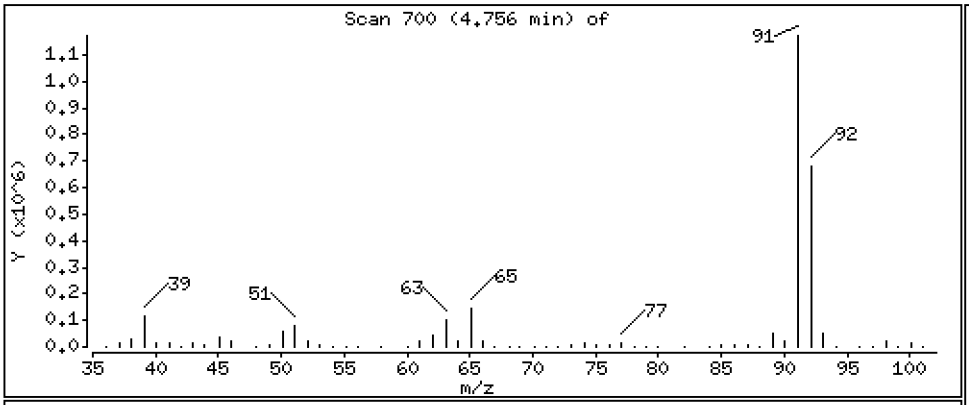
Client ID: Instrument: ms03.i

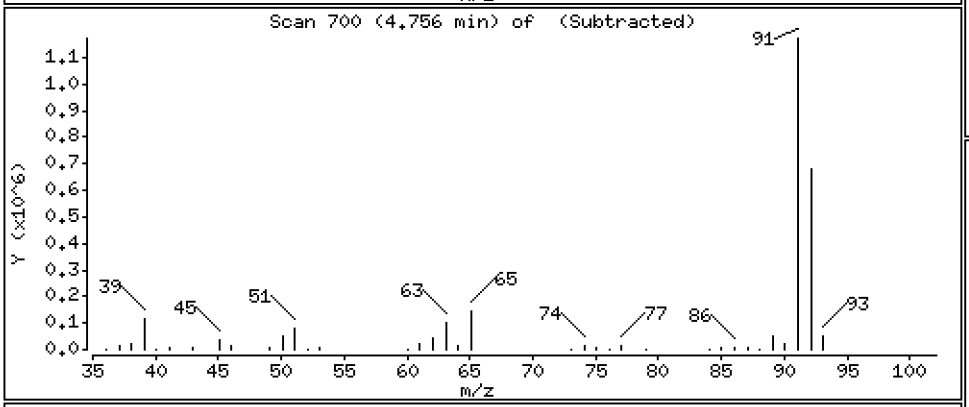
Sample Info: 1800;;1;2;4;;;

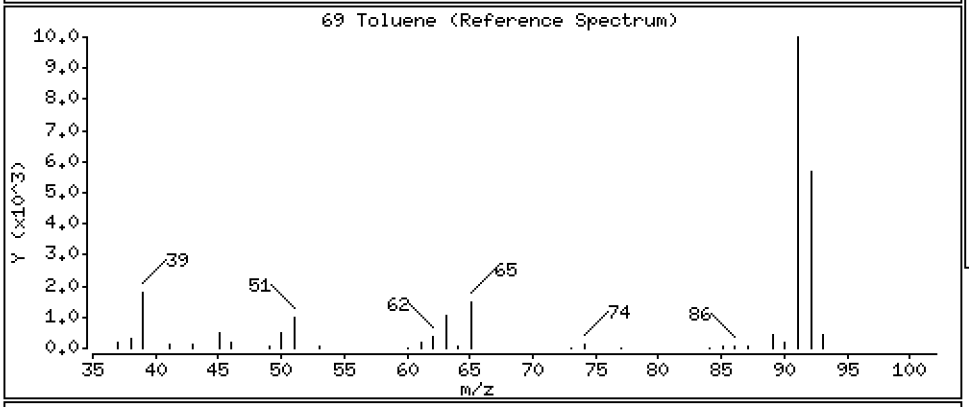
Purge Volume: 5.0 Operator: DD

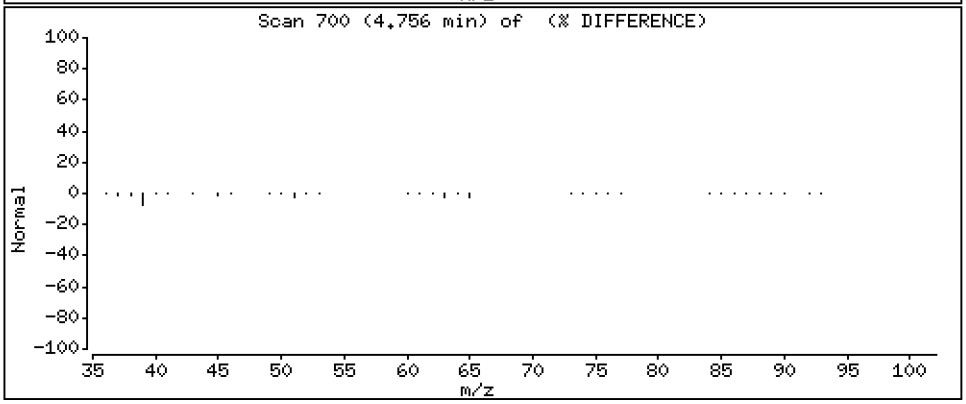
Column phase: DB-VRX Column diameter: 0.25

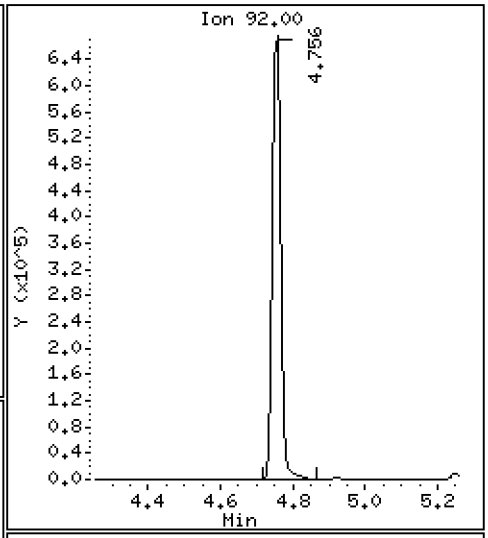
69 Toluene Concentration: 46.1444 ug/L

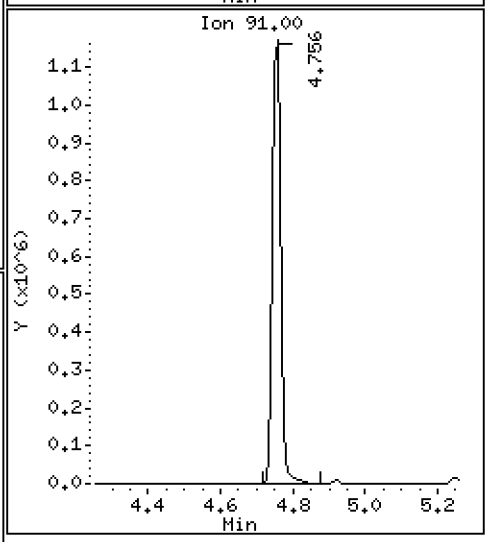












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 74

Date : 26-OCT-2016 09:18

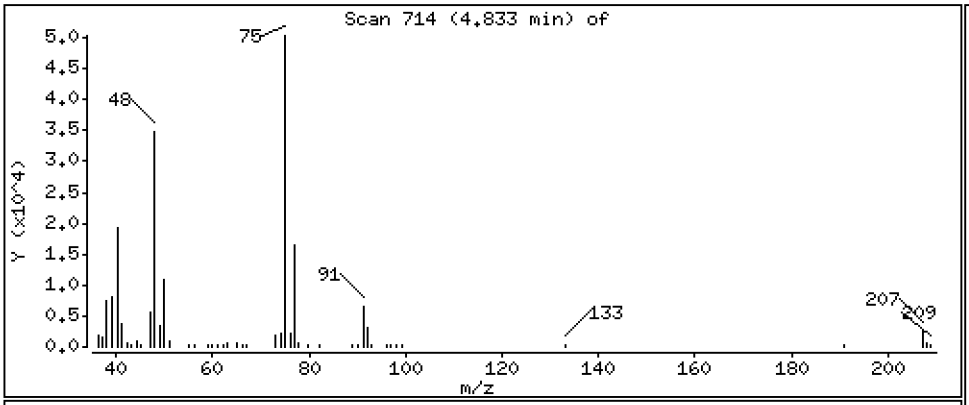
Client ID: Instrument: ms03.i

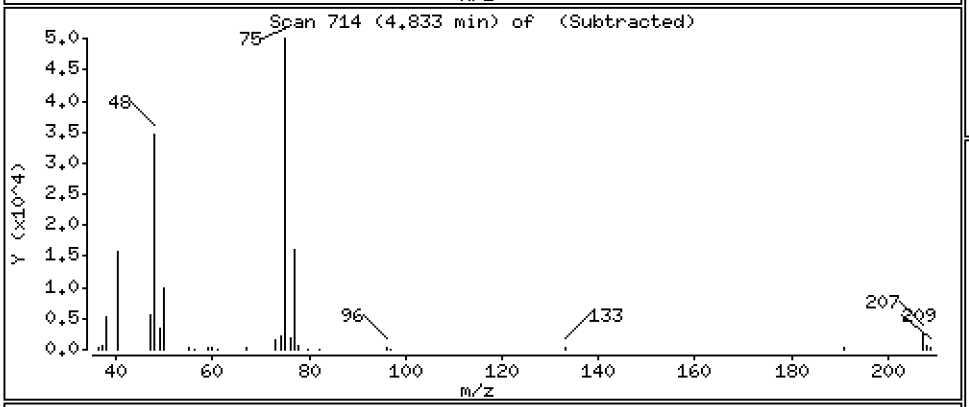
Sample Info: 1800;;1;2;4;;;

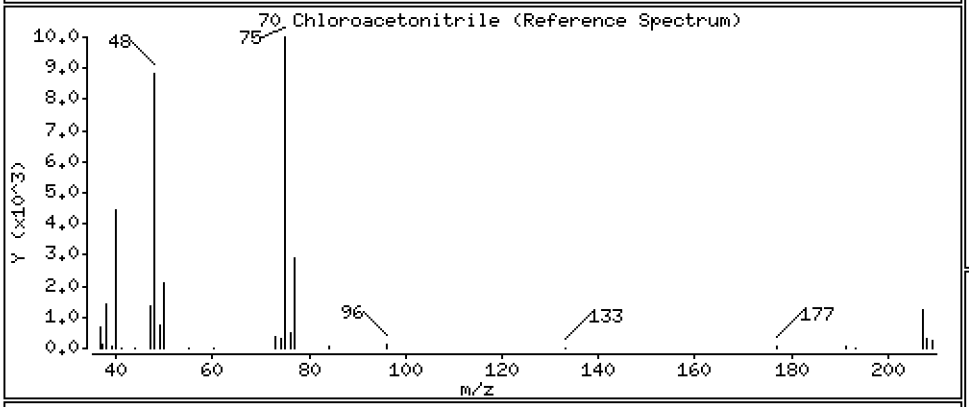
Purge Volume: 5.0 Operator: DD

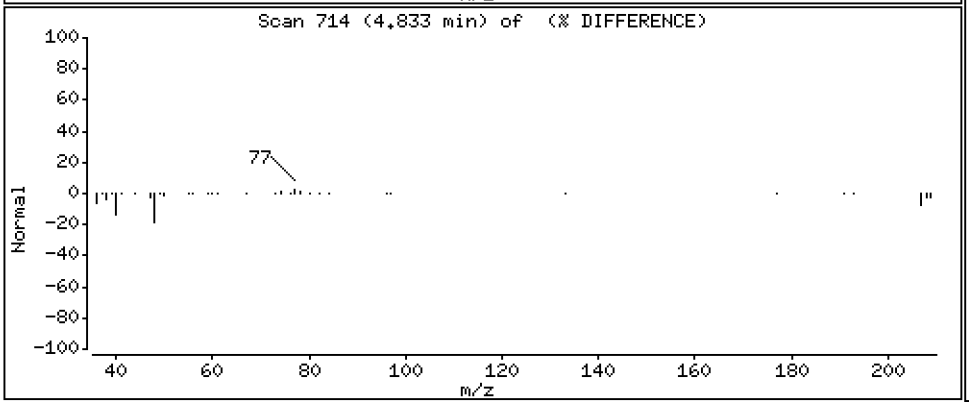
Column phase: DB-VRX Column diameter: 0.25

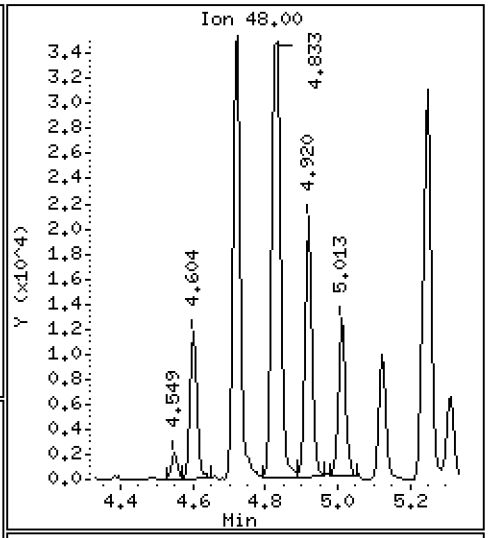
70 Chloroacetonitrile Concentration: 280.015 ug/L

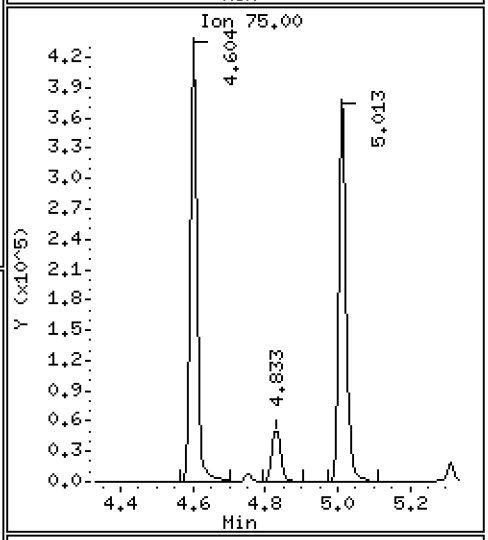


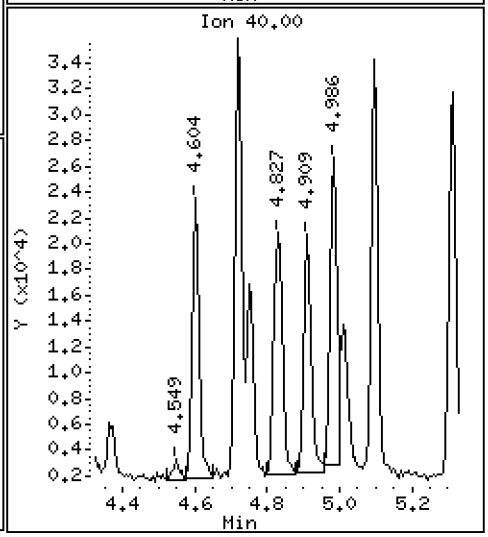












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 75

Date : 26-OCT-2016 09:18

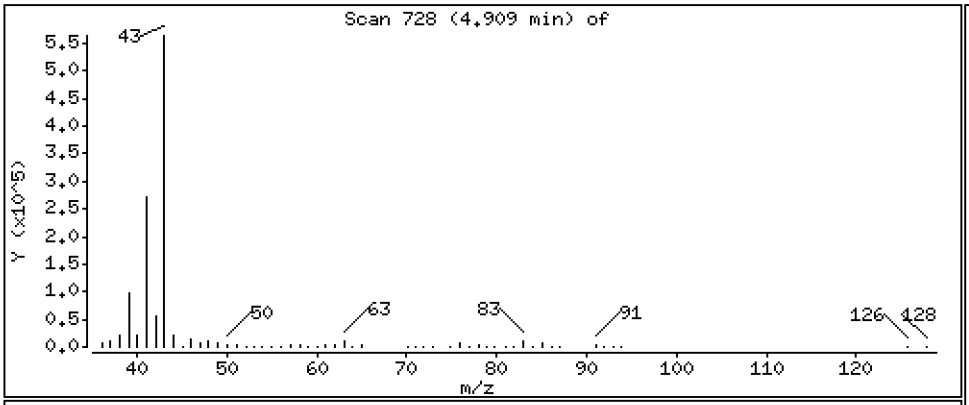
Client ID: Instrument: ms03.i

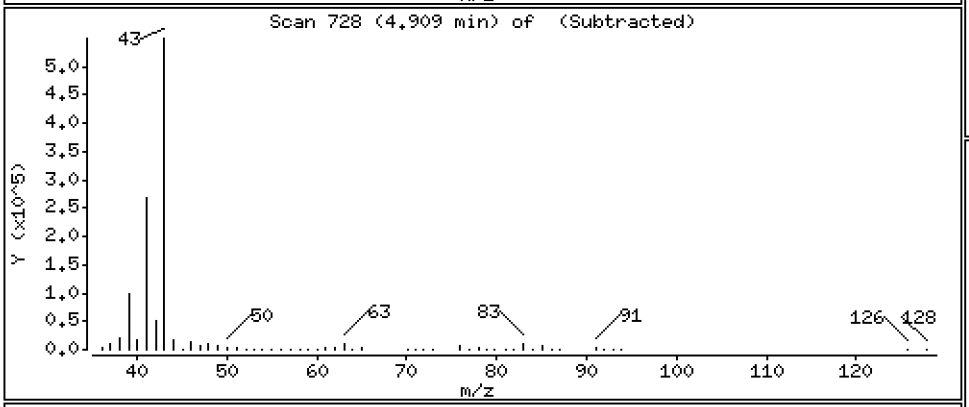
Sample Info: 1800;;1;2;4;;;

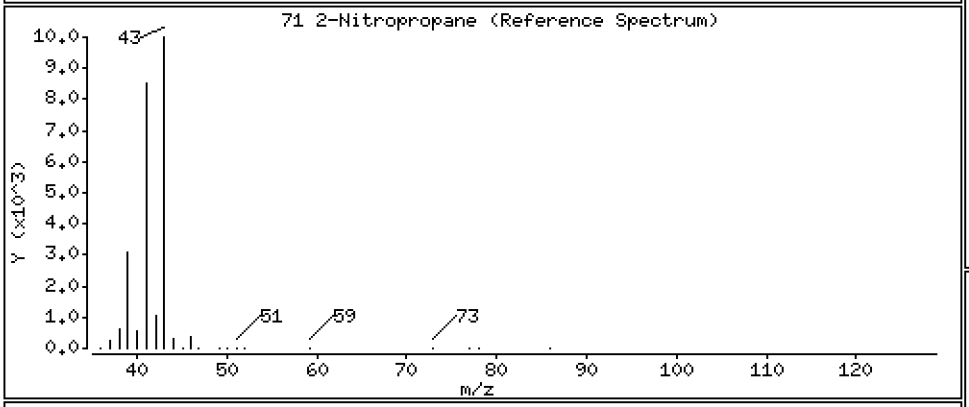
Purge Volume: 5.0 Operator: DD

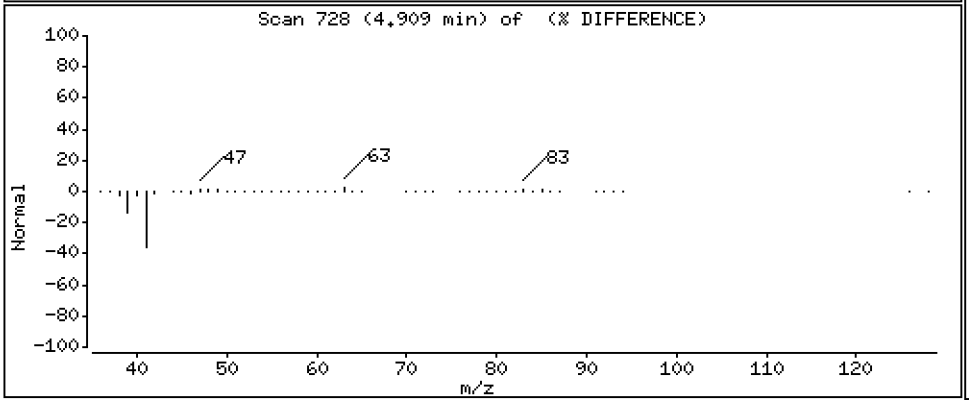
Column phase: DB-VRX Column diameter: 0.25

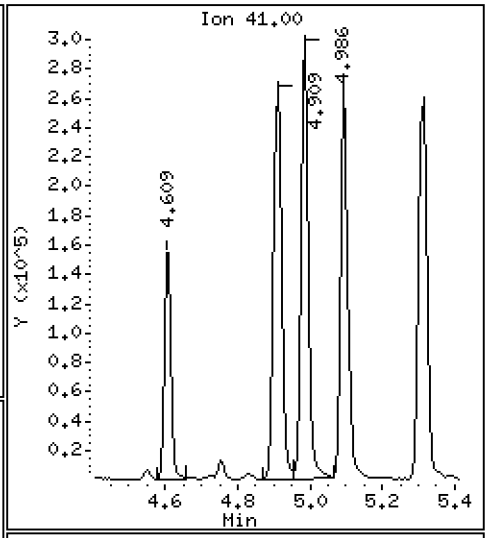
71 2-Nitropropane Concentration: 244.336 ug/L

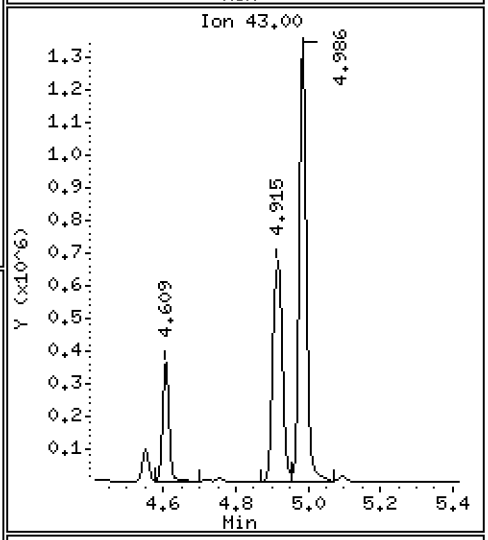


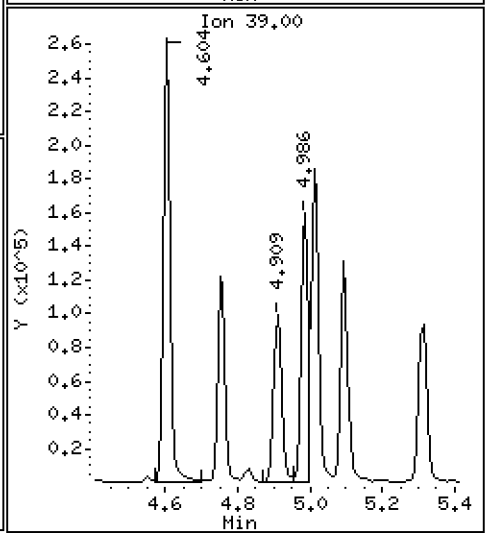












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 76

Date : 26-OCT-2016 09:18

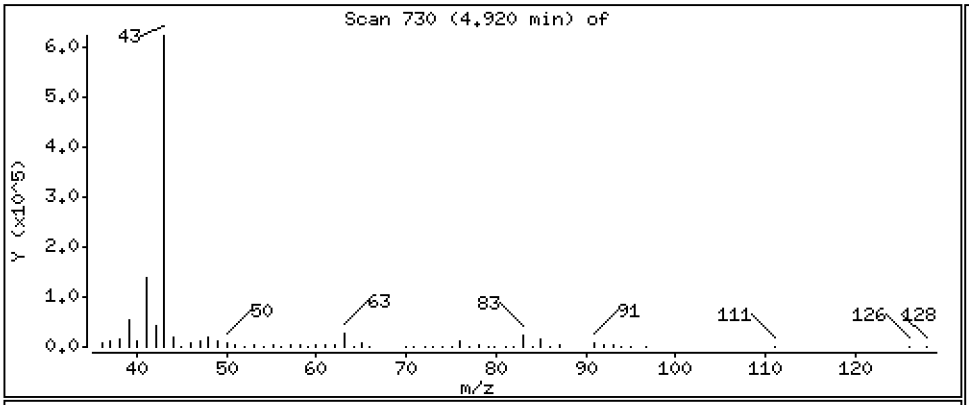
Client ID: Instrument: ms03.i

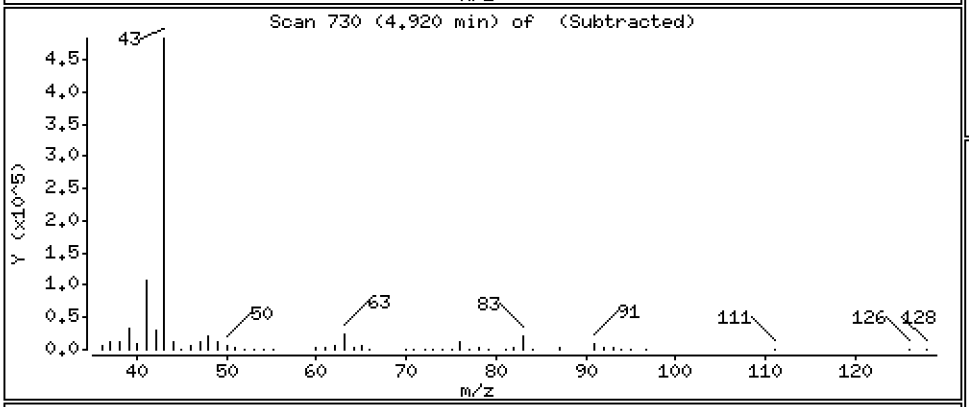
Sample Info: 1800;;1;2;4;;;

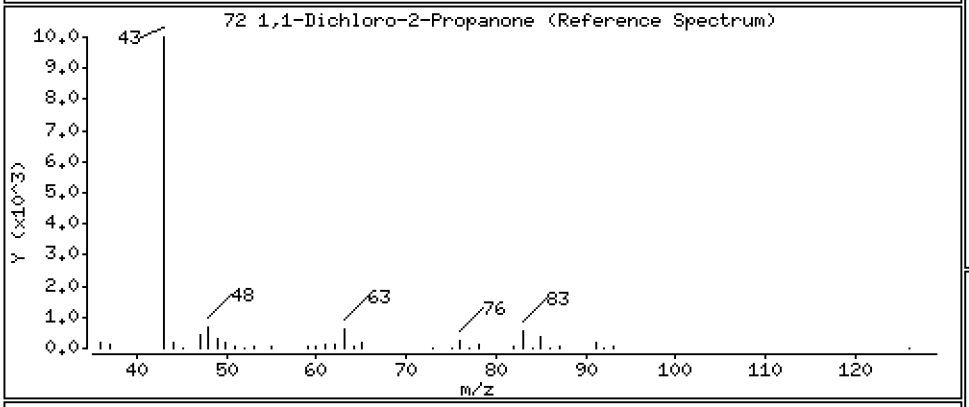
Purge Volume: 5.0 Operator: DD

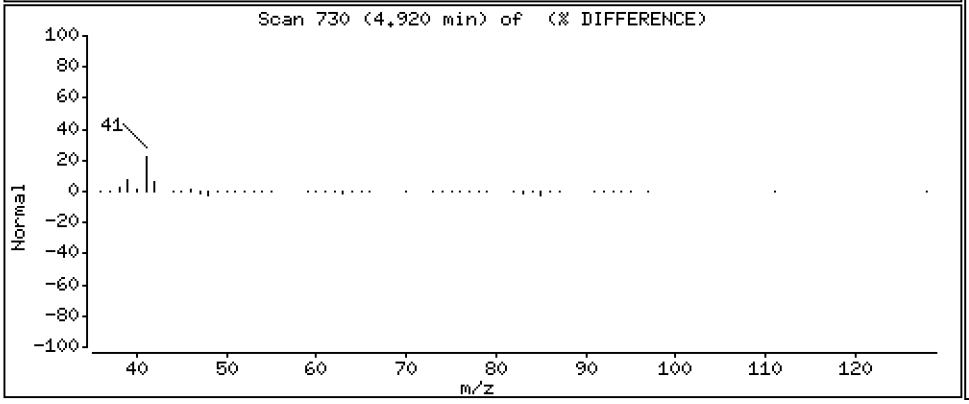
Column phase: DB-VRX Column diameter: 0.25

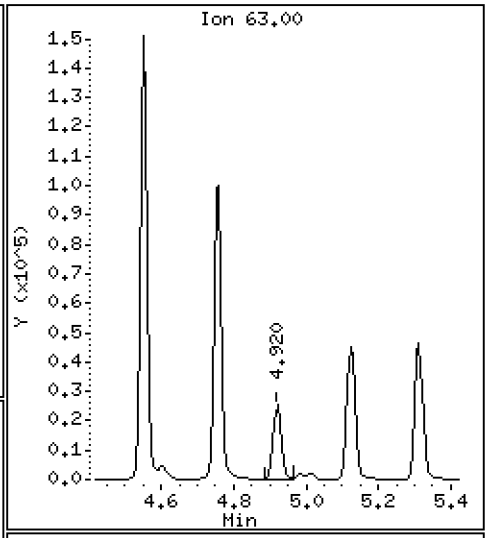
72 1,1-Dichloro-2-Propanone Concentration: 248.095 ug/L

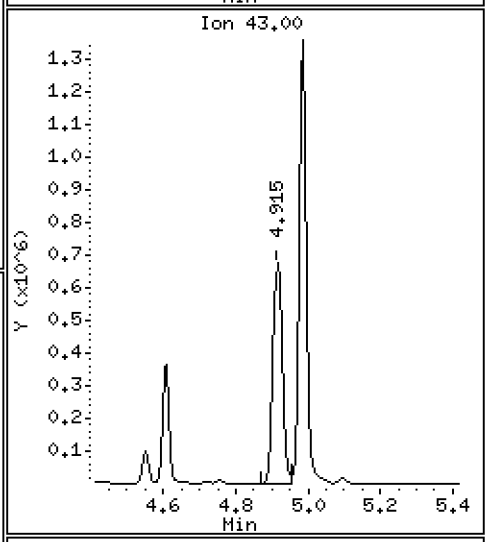


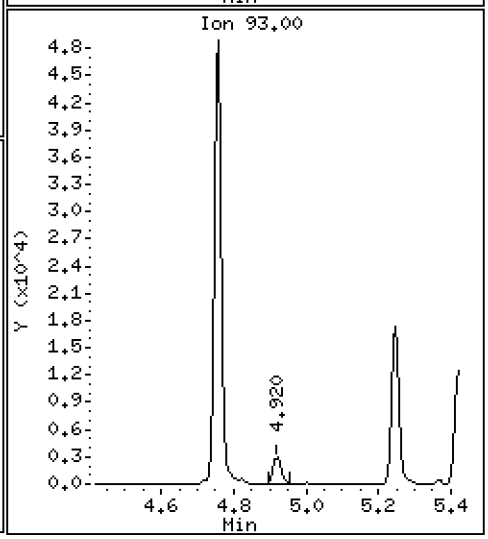












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 77

Date : 26-OCT-2016 09:18

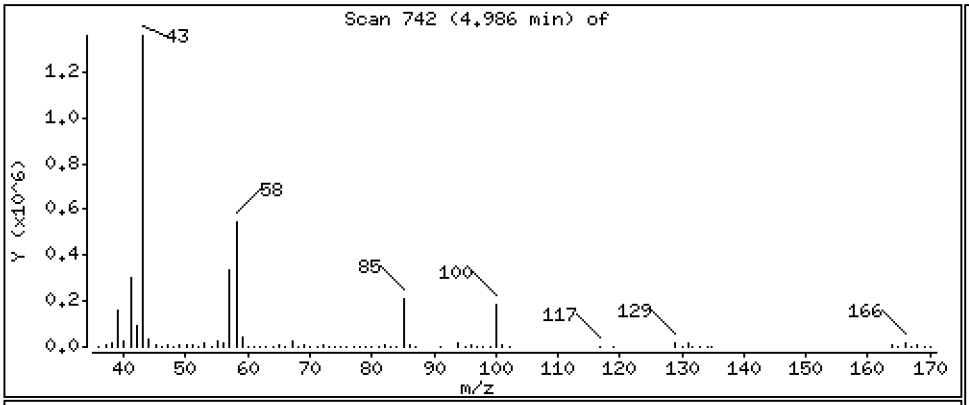
Client ID: Instrument: ms03.i

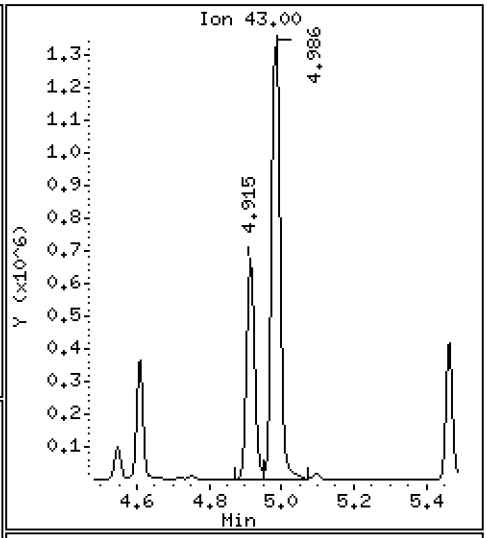
Sample Info: 1800;;1;2;4;;;

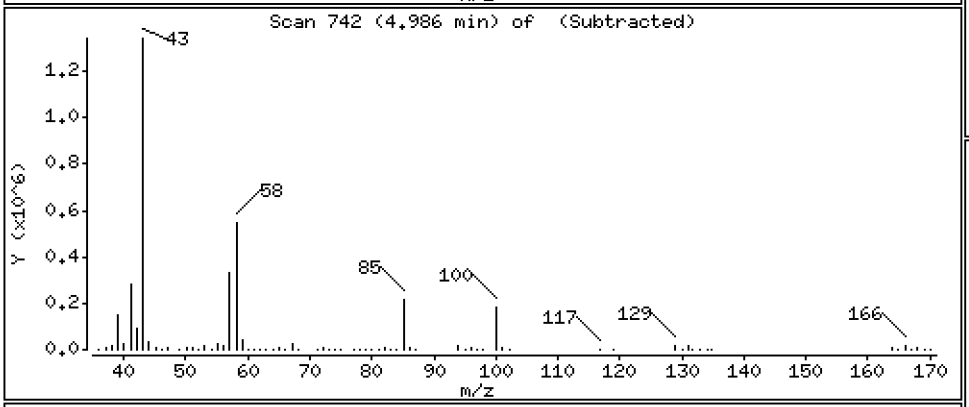
Purge Volume: 5.0 Operator: DD

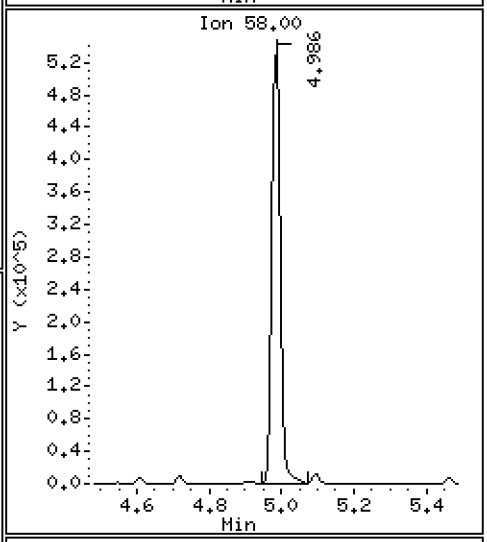
Column phase: DB-VRX Column diameter: 0.25

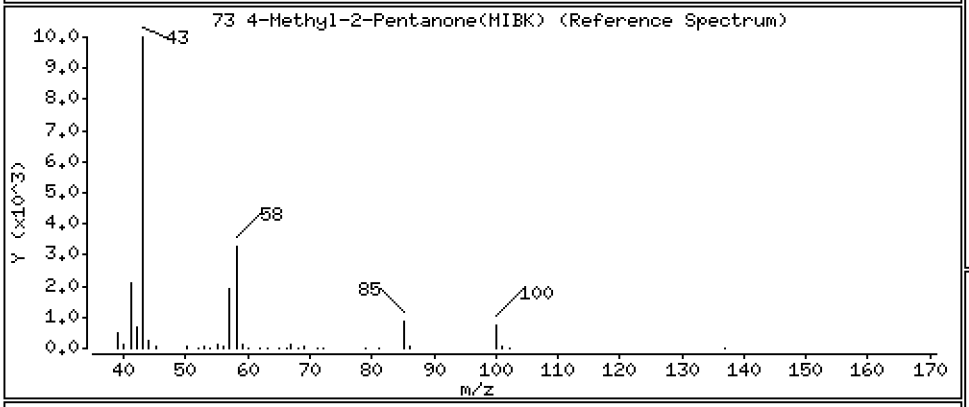
73 4-Methyl-2-Pentanone(MIBK) Concentration: 273.711 ug/L

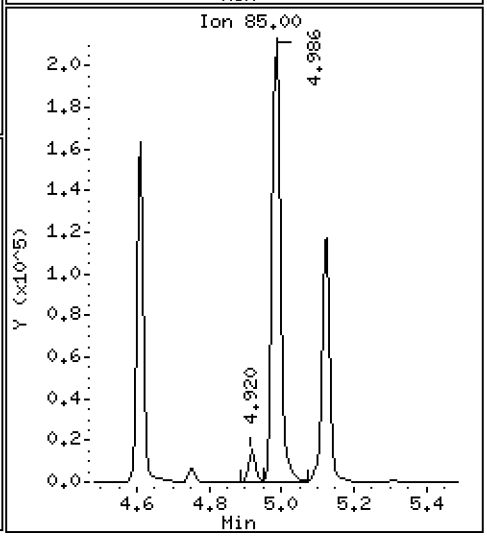


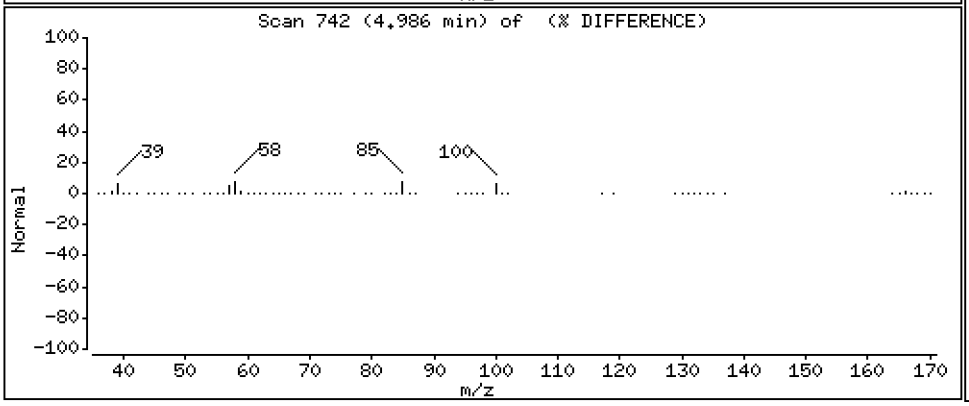












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 78

Date : 26-OCT-2016 09:18

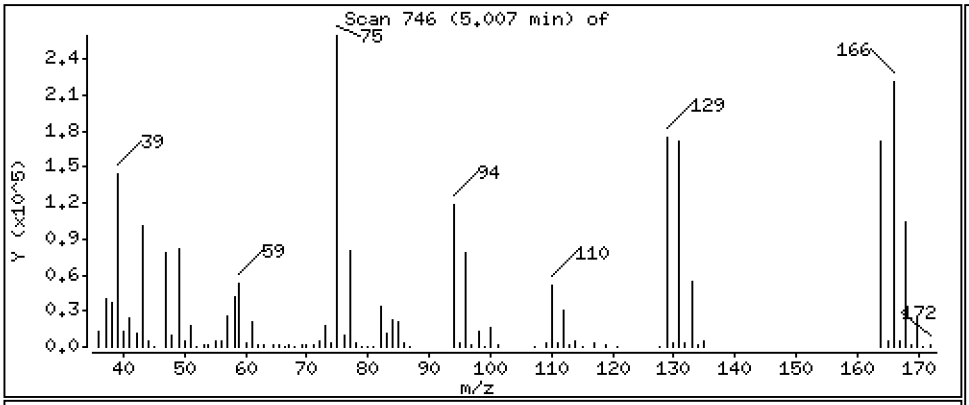
Client ID: Instrument: ms03.i

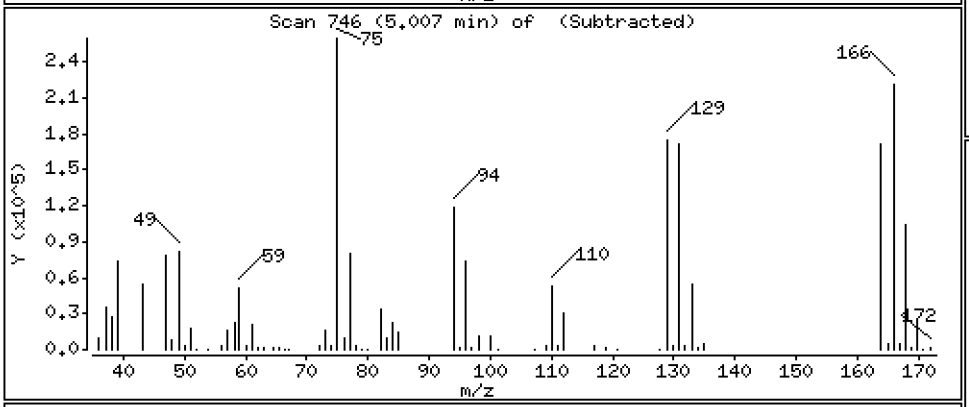
Sample Info: 1800;;1;2;4;;;

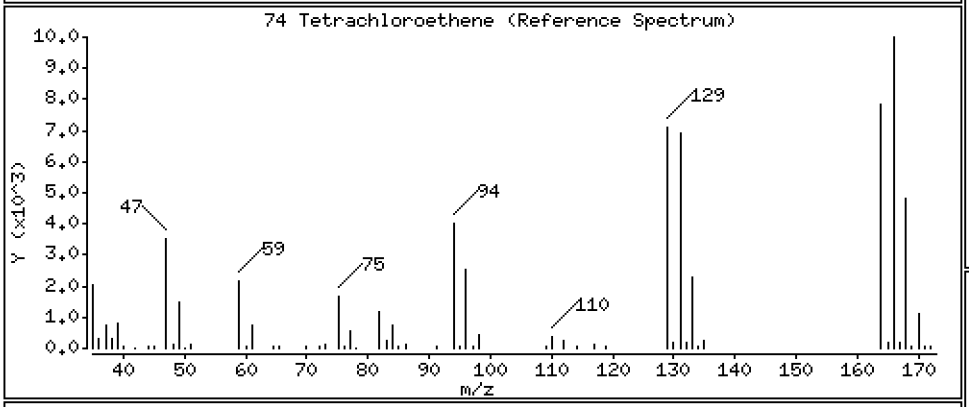
Purge Volume: 5.0 Operator: DD

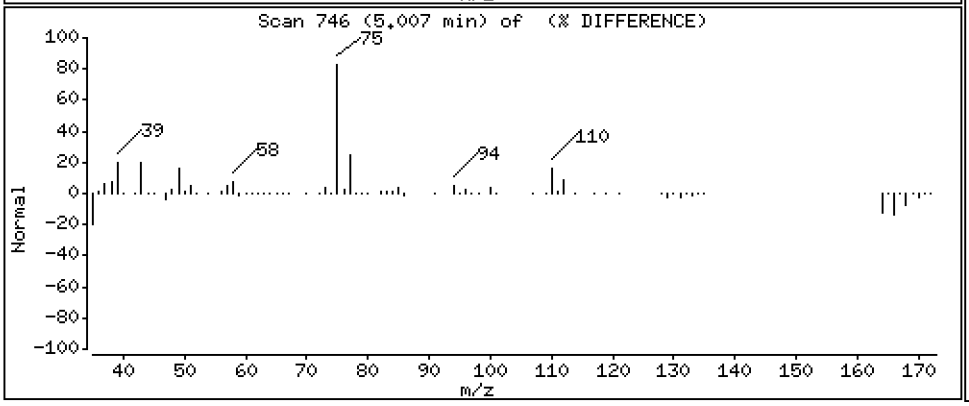
Column phase: DB-VRX Column diameter: 0.25

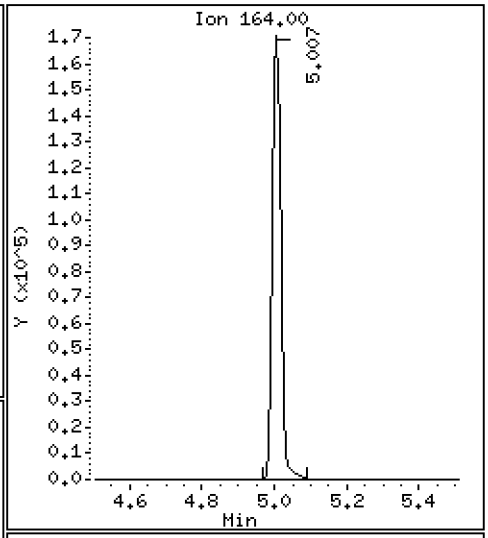
74 Tetrachloroethene Concentration: 49.9072 ug/L

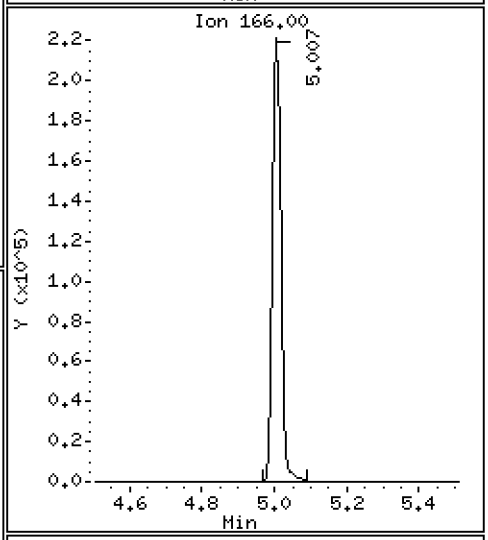


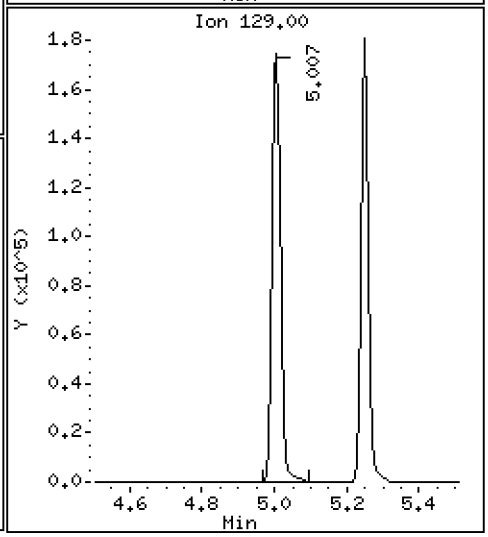












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 79

Date : 26-OCT-2016 09:18

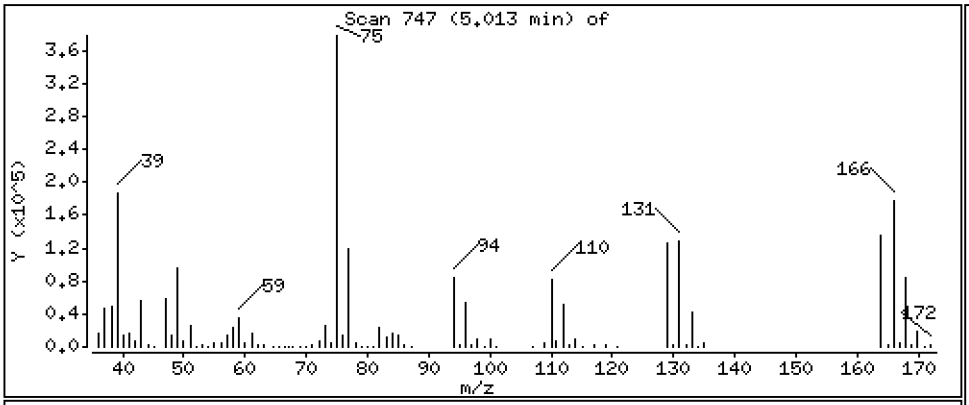
Client ID: Instrument: ms03.i

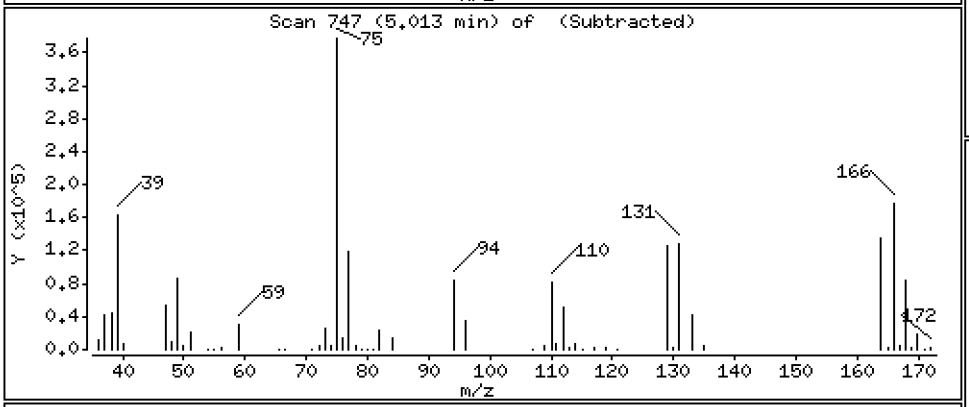
Sample Info: 1800;;1;2;4;;;

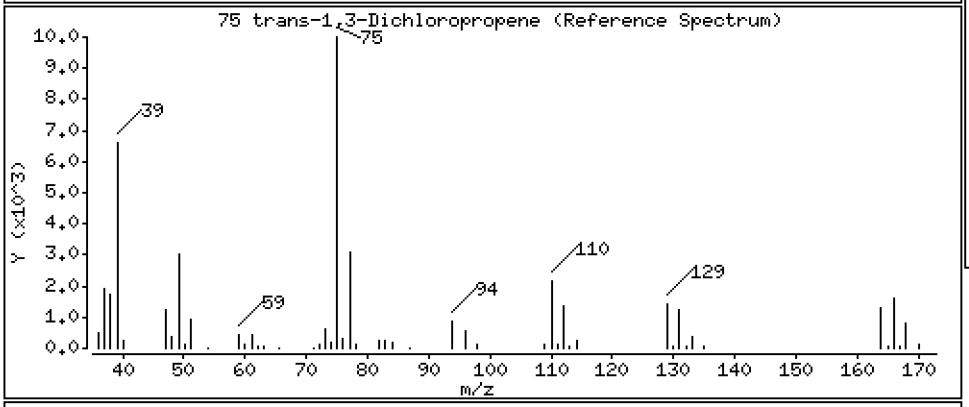
Purge Volume: 5.0 Operator: DD

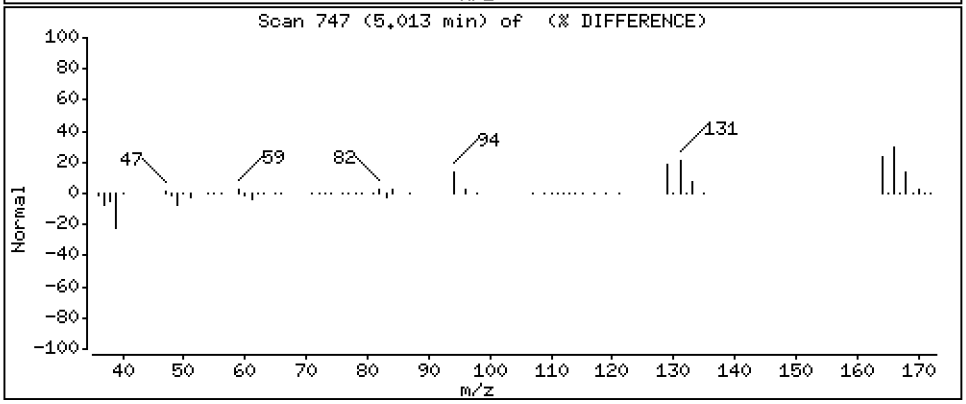
Column phase: DB-VRX Column diameter: 0.25

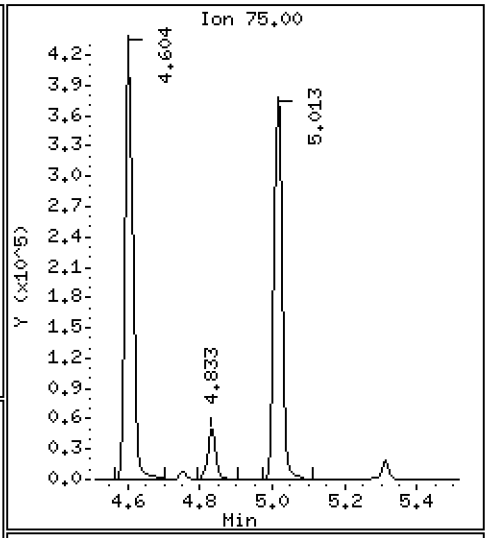
75 trans-1,3-Dichloropropene Concentration: 52.2082 ug/L

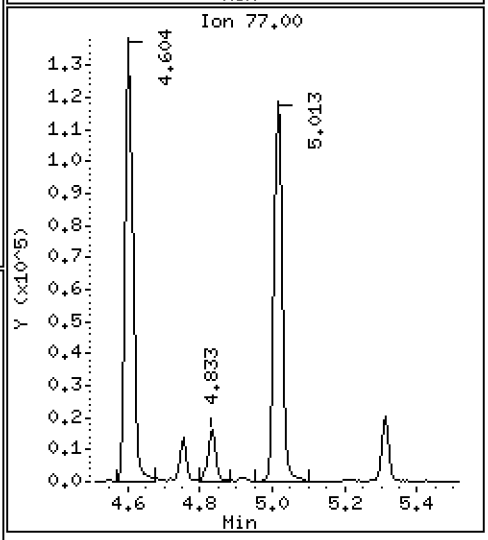












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 80

Date : 26-OCT-2016 09:18

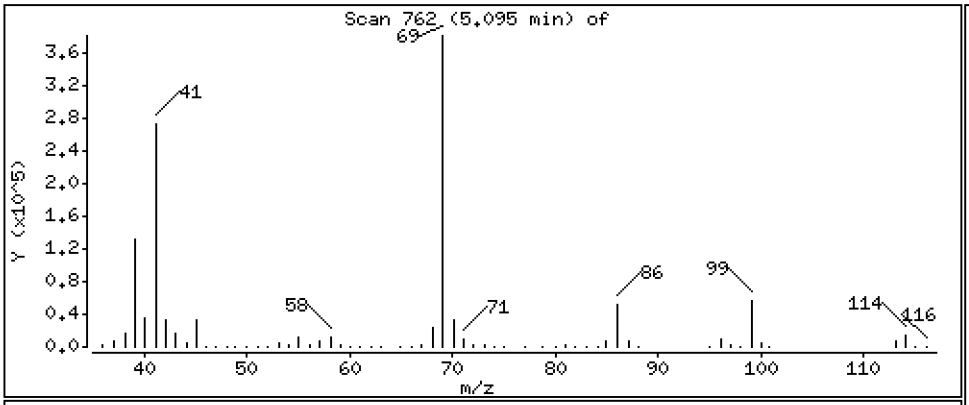
Client ID: Instrument: ms03.i

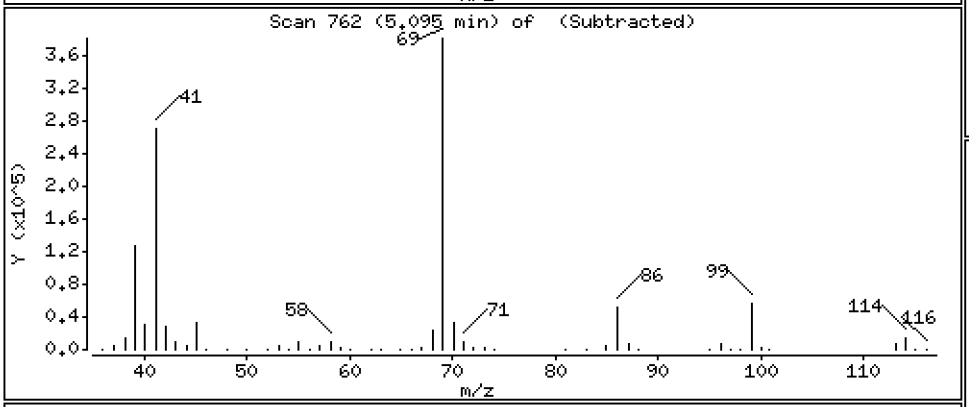
Sample Info: 1800;;1;2;4;;;

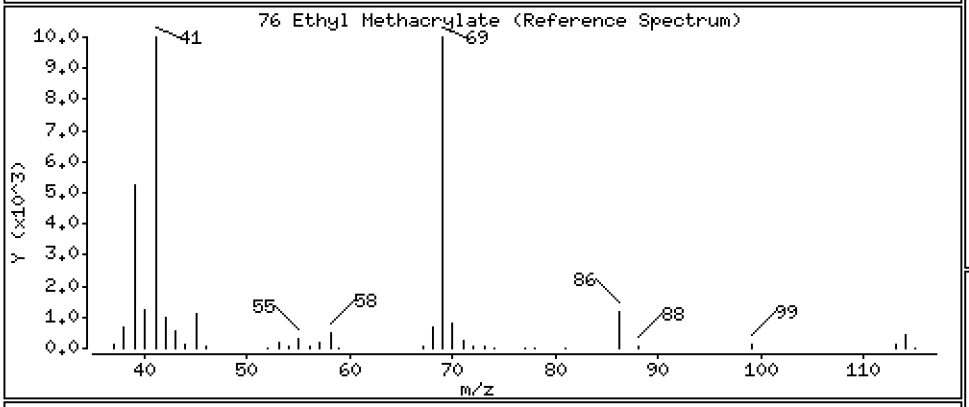
Purge Volume: 5.0 Operator: DD

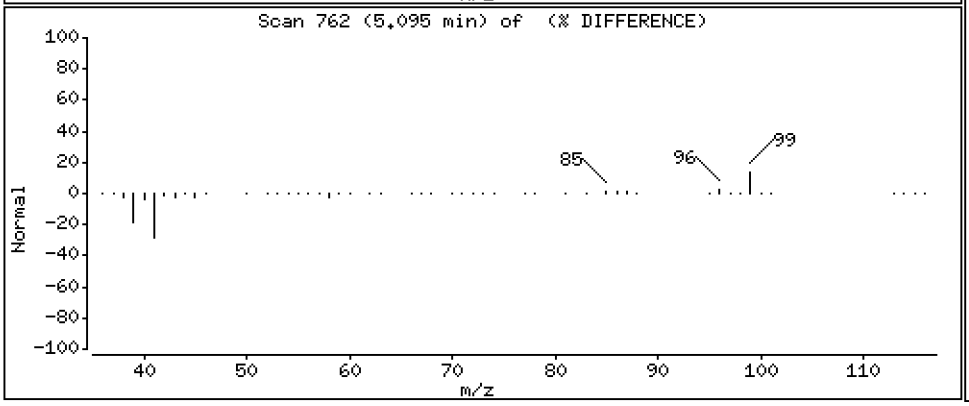
Column phase: DB-VRX Column diameter: 0.25

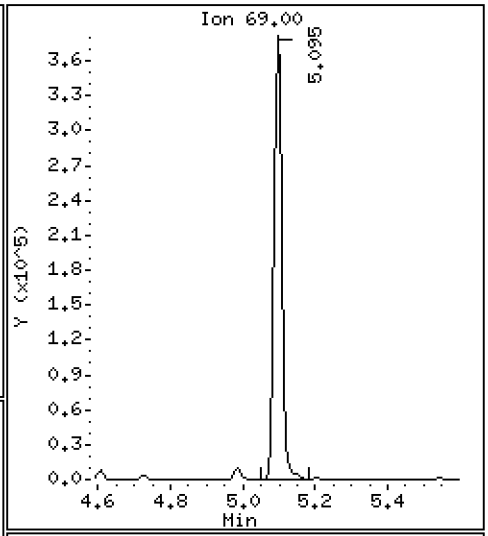
76 Ethyl Methacrylate Concentration: 54.3790 ug/L

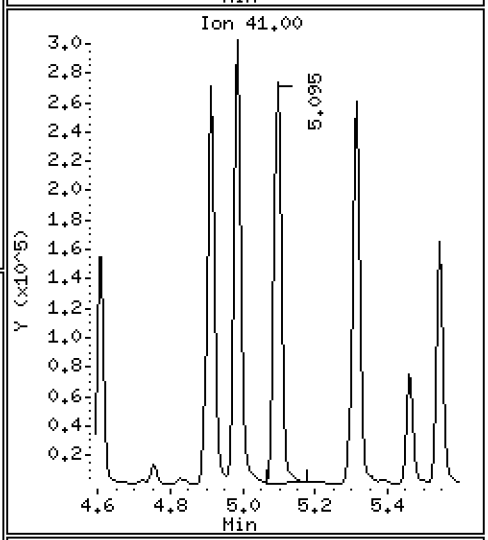


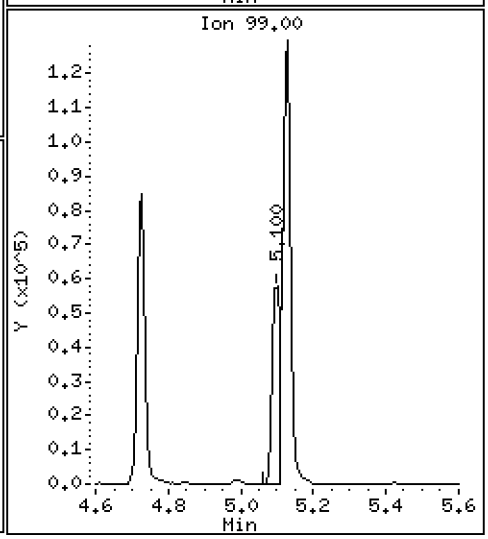












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 81

Date : 26-OCT-2016 09:18

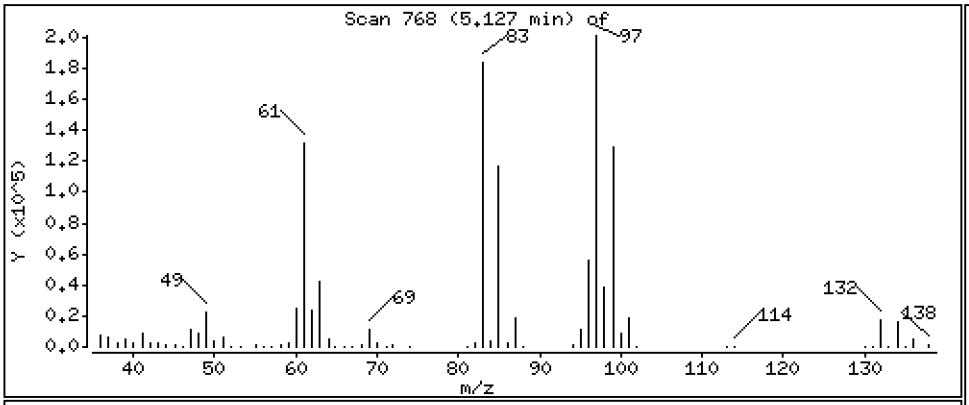
Client ID: Instrument: ms03.i

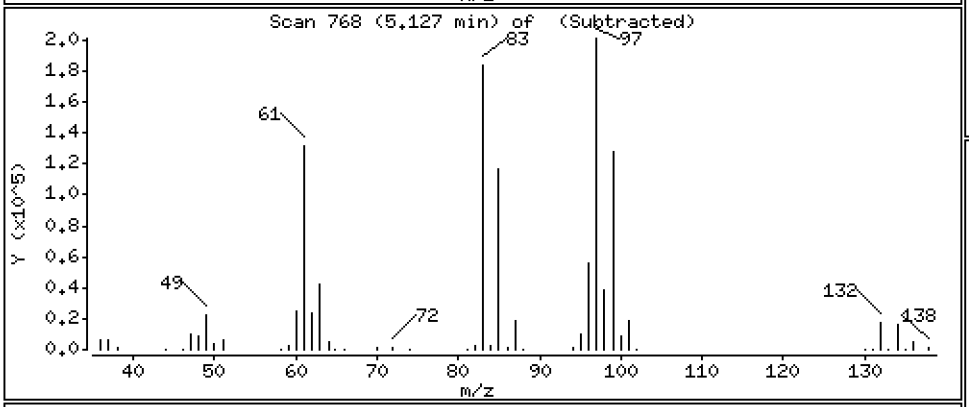
Sample Info: 1800;;1;2;4;;;

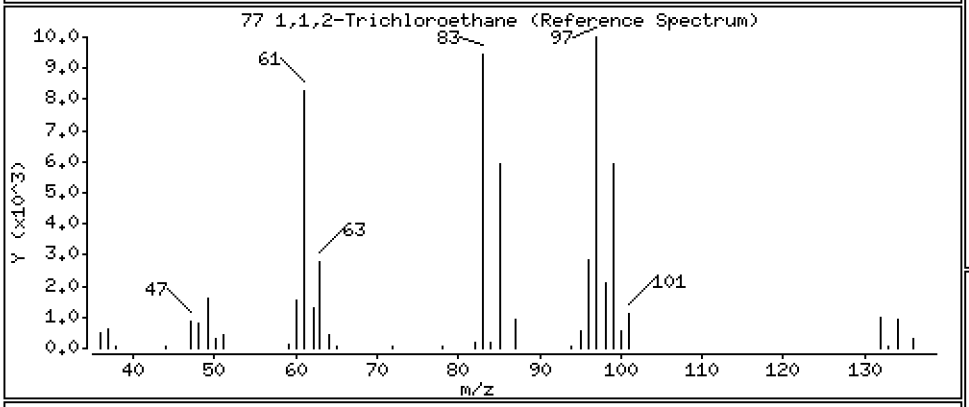
Purge Volume: 5.0 Operator: DD

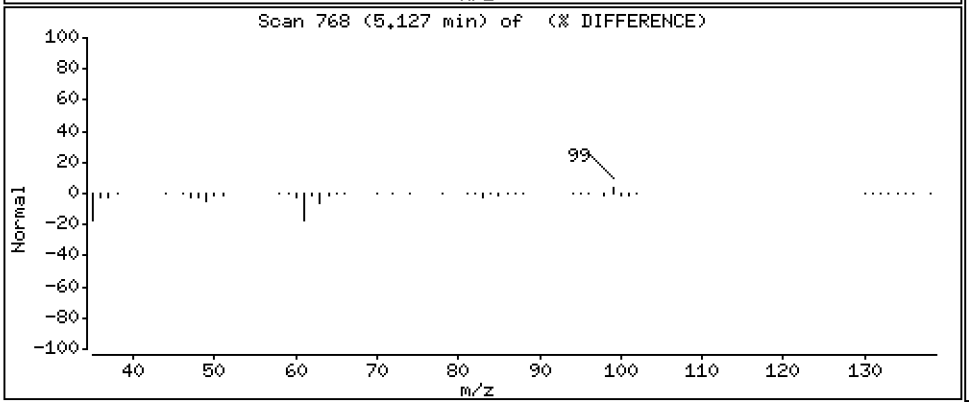
Column phase: DB-VRX Column diameter: 0.25

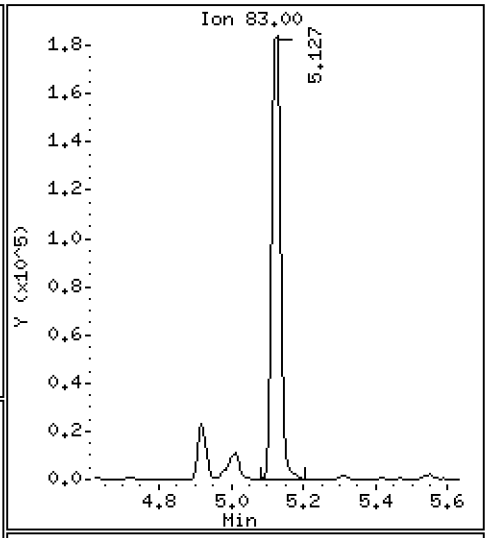
77 1,1,2-Trichloroethane Concentration: 46.3268 ug/L

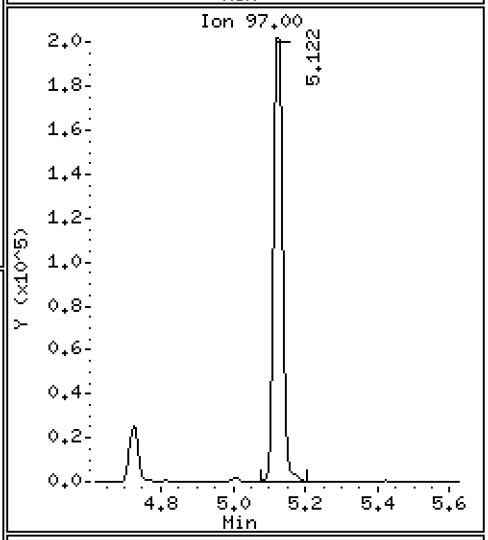


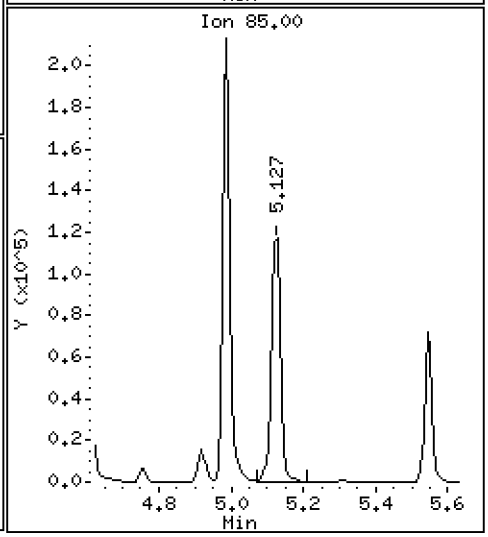












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 82

Date : 26-OCT-2016 09:18

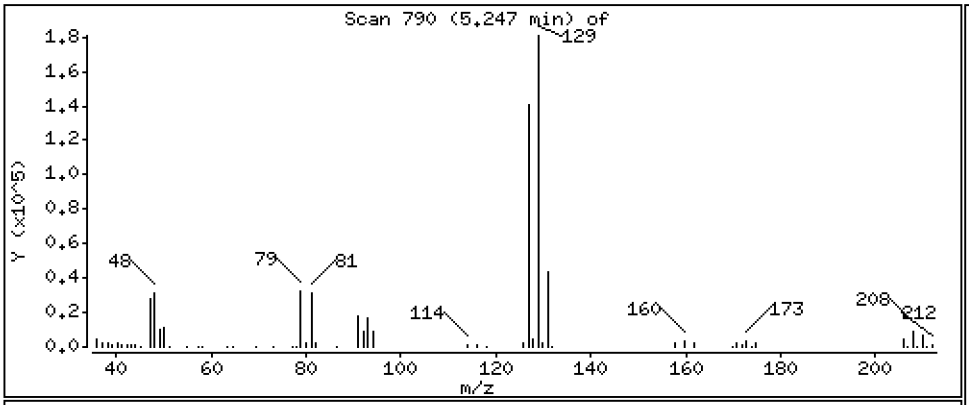
Client ID: Instrument: ms03.i

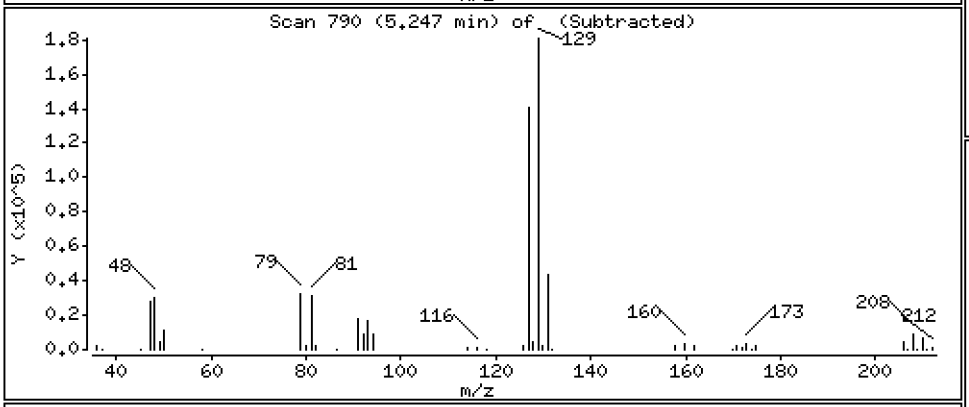
Sample Info: 1800;;1;2;4;;;

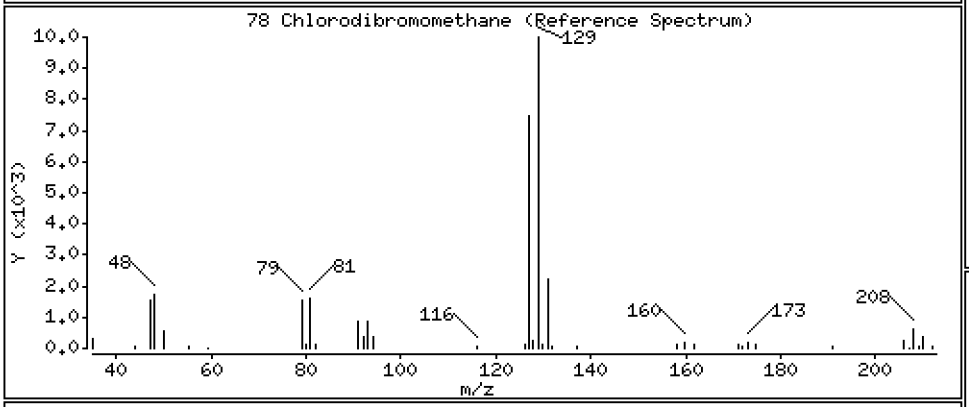
Purge Volume: 5.0 Operator: DD

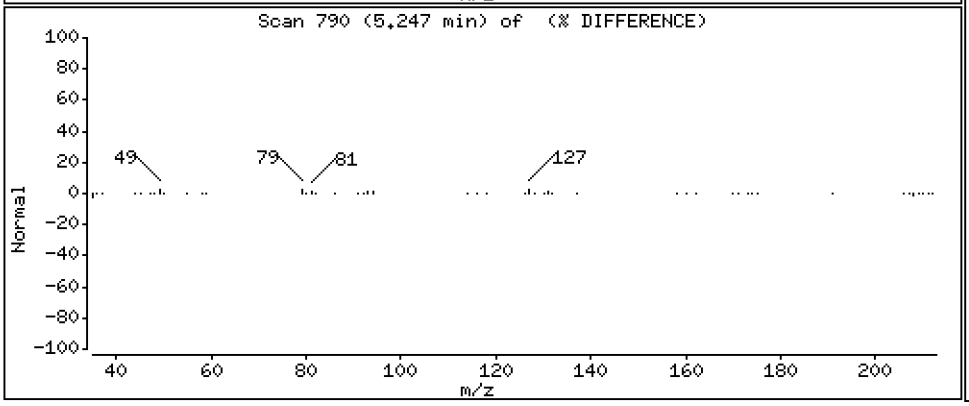
Column phase: DB-VRX Column diameter: 0.25

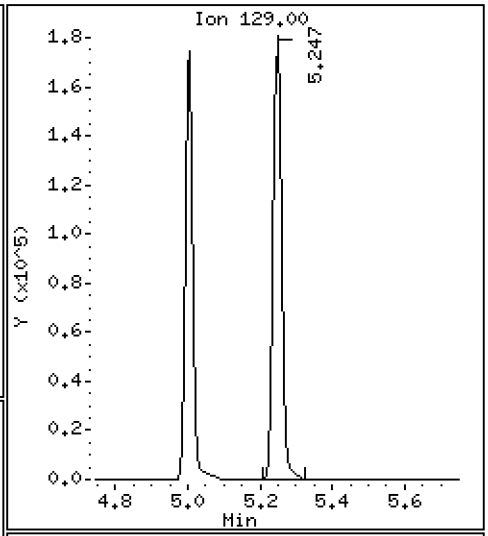
78 Chlorodibromomethane Concentration: 48.2884 ug/L

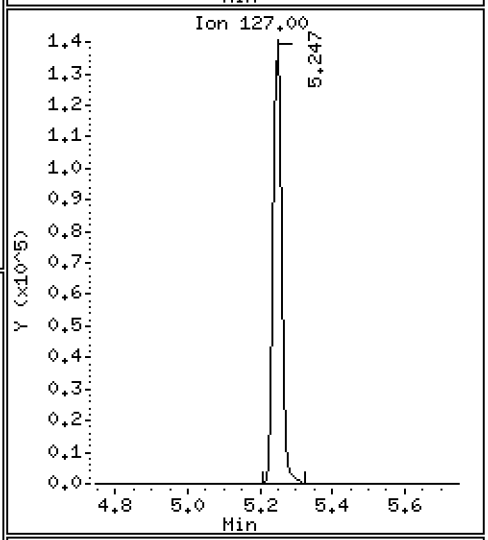


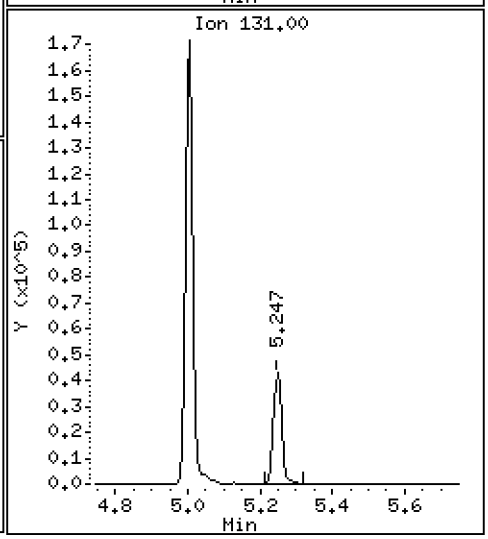












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 83

Date : 26-OCT-2016 09:18

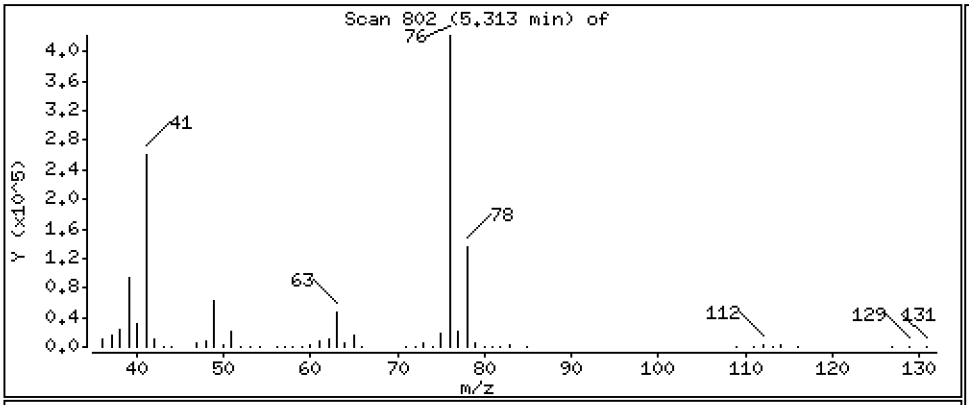
Client ID: Instrument: ms03.i

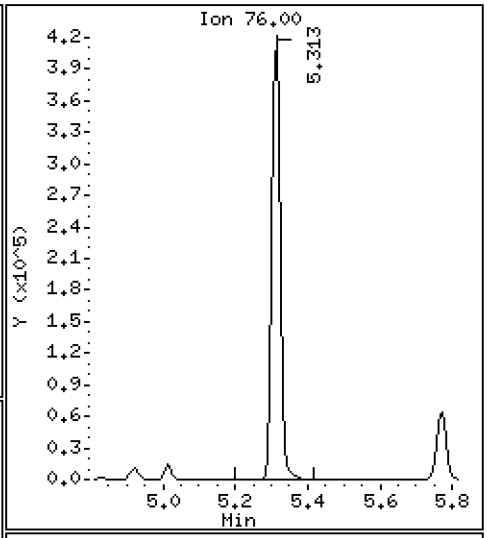
Sample Info: 1800;;1;2;4;;;

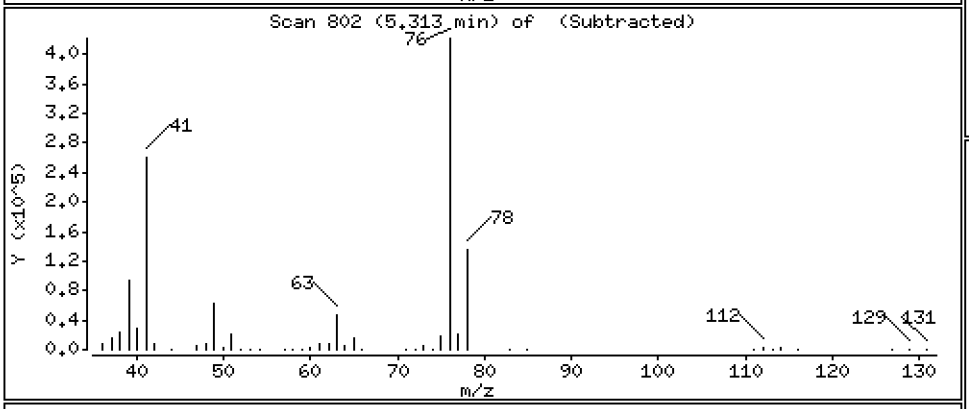
Purge Volume: 5.0 Operator: DD

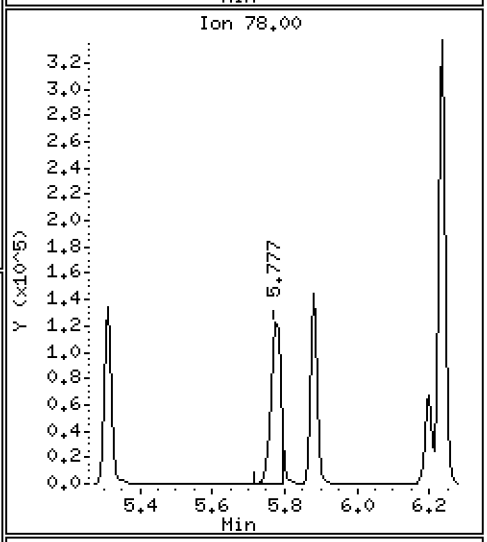
Column phase: DB-VRX Column diameter: 0.25

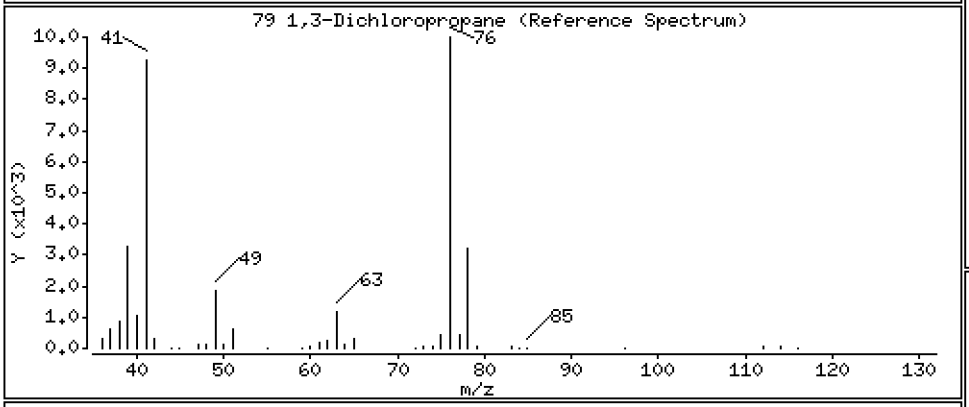
79 1,3-Dichloropropane Concentration: 46.3621 ug/L

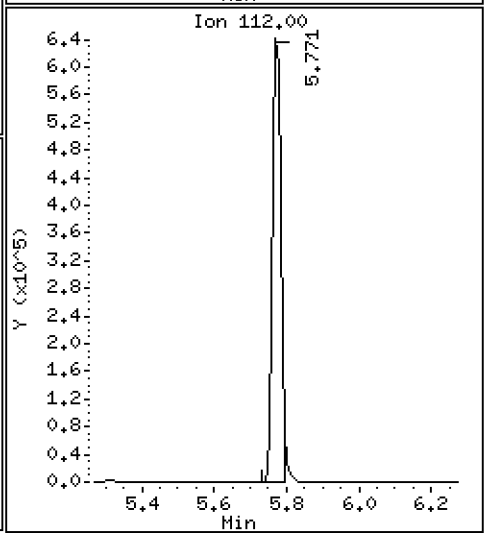


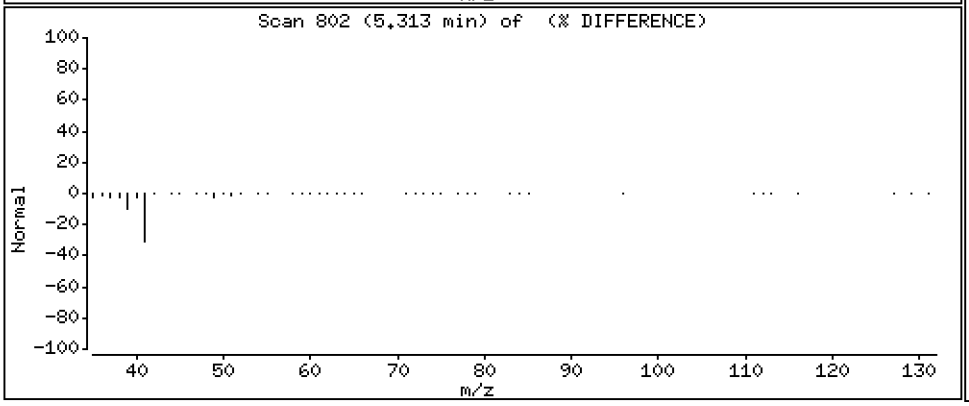












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 84

Date : 26-OCT-2016 09:18

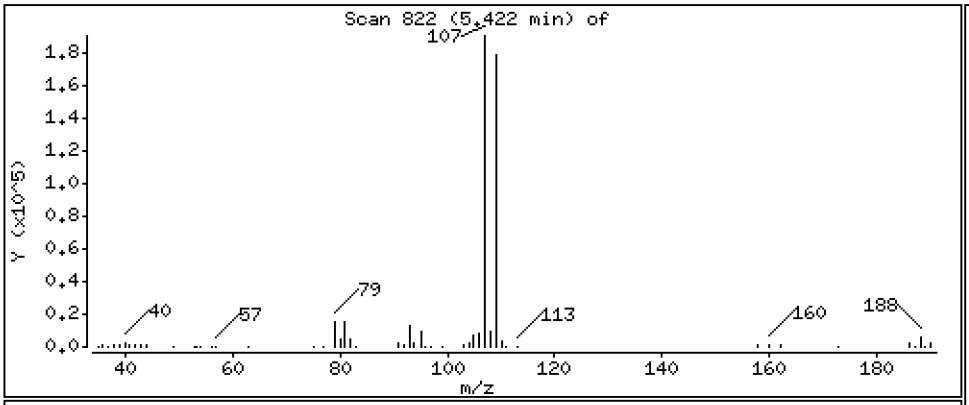
Client ID: Instrument: ms03.i

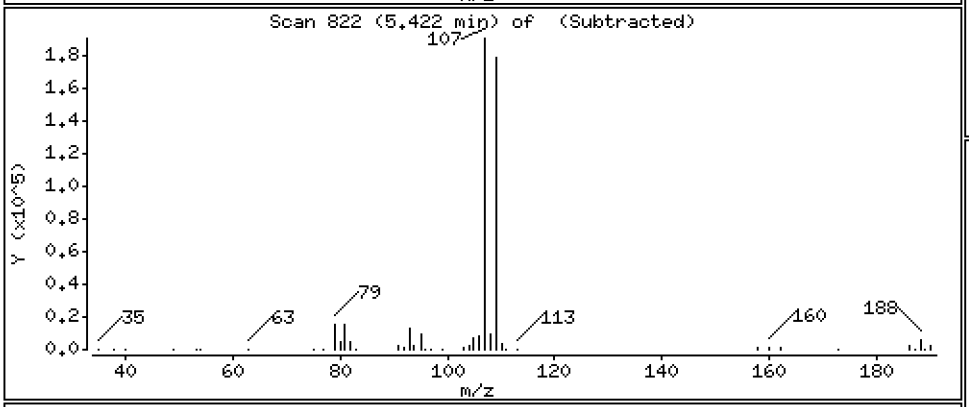
Sample Info: 1800;;1;2;4;;;

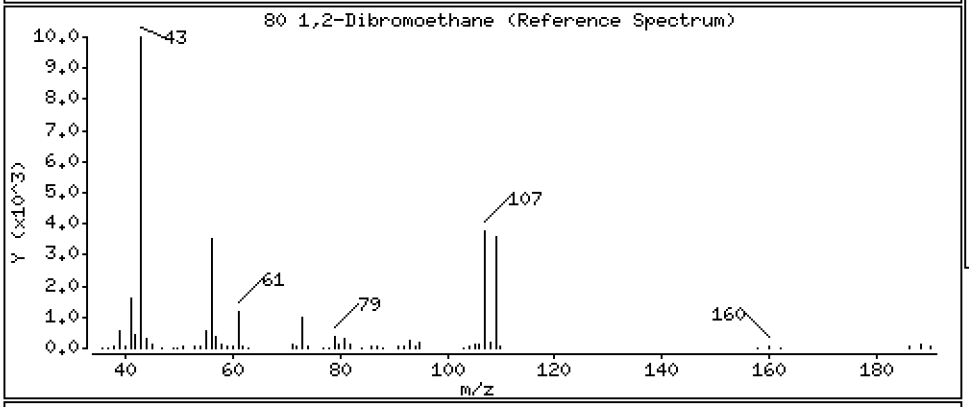
Purge Volume: 5.0 Operator: DD

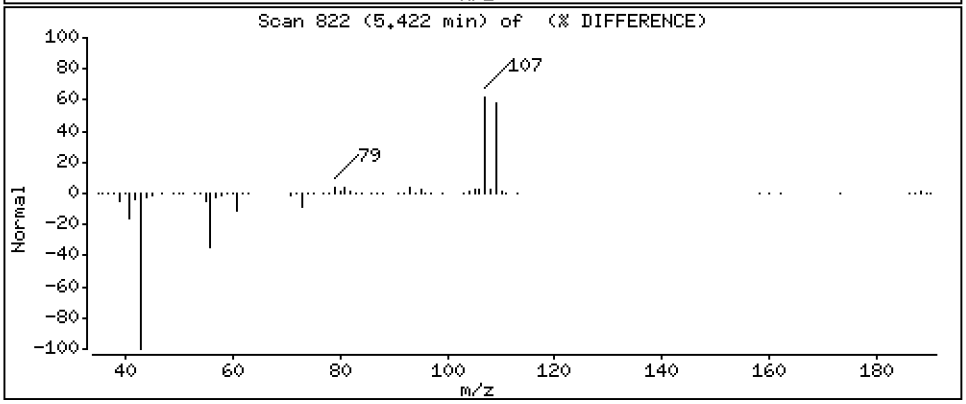
Column phase: DB-VRX Column diameter: 0.25

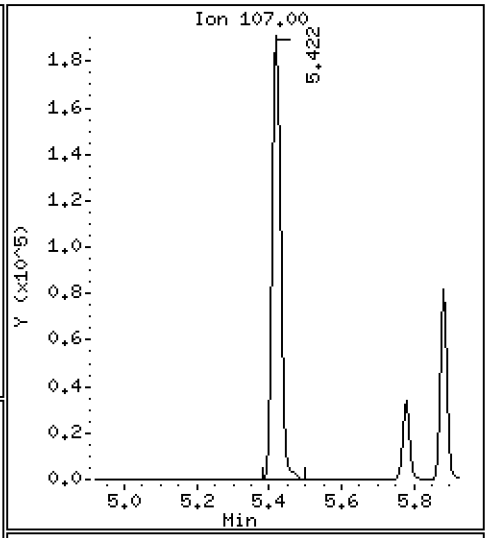
80 1,2-Dibromoethane Concentration: 46.6081 ug/L

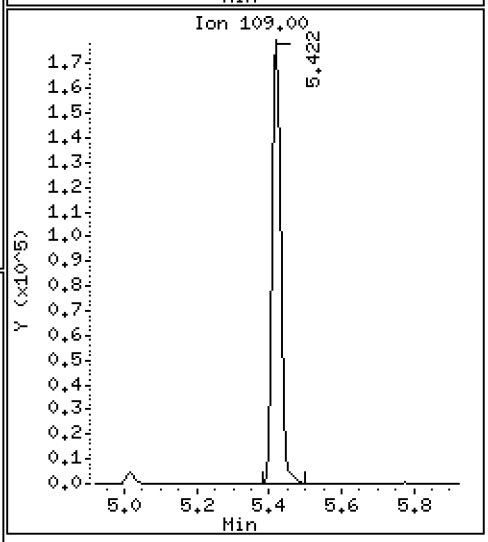












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 85

Date : 26-OCT-2016 09:18

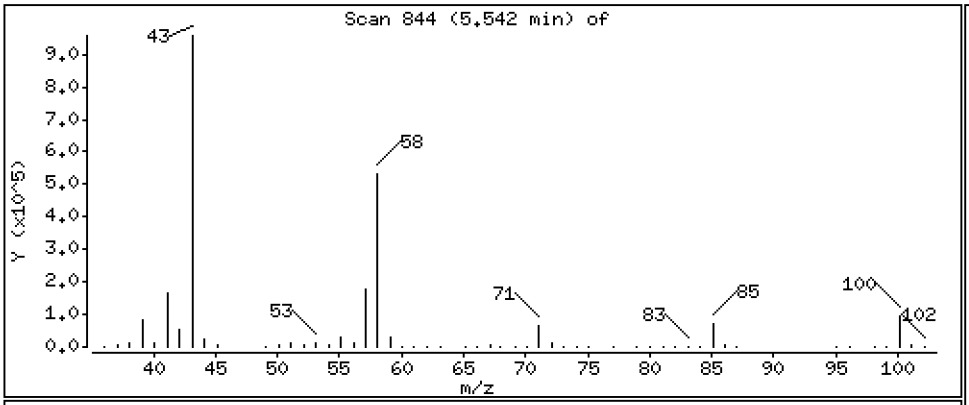
Client ID: Instrument: ms03.i

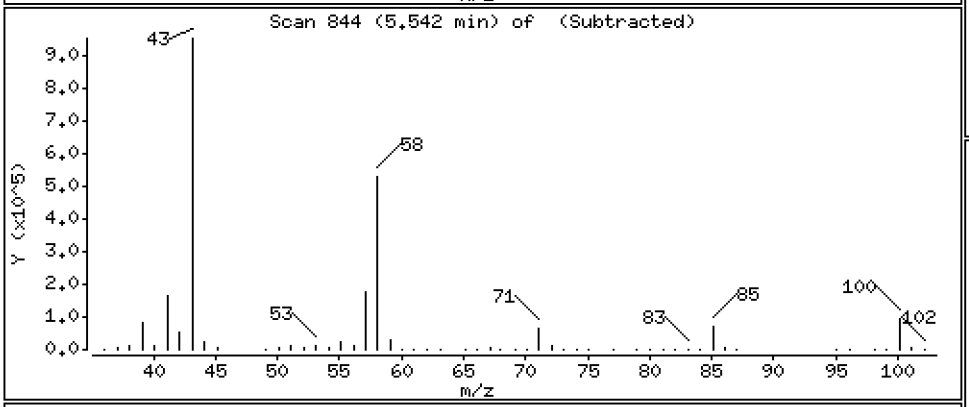
Sample Info: 1800;;1;2;4;;;

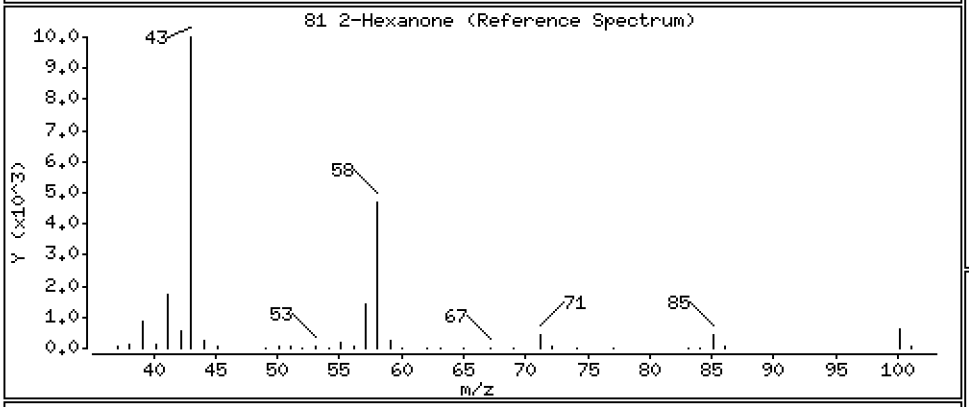
Purge Volume: 5.0 Operator: DD

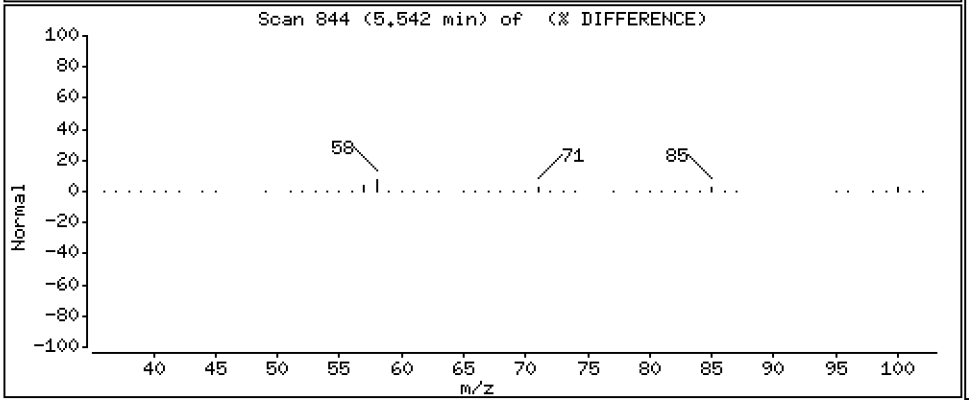
Column phase: DB-VRX Column diameter: 0.25

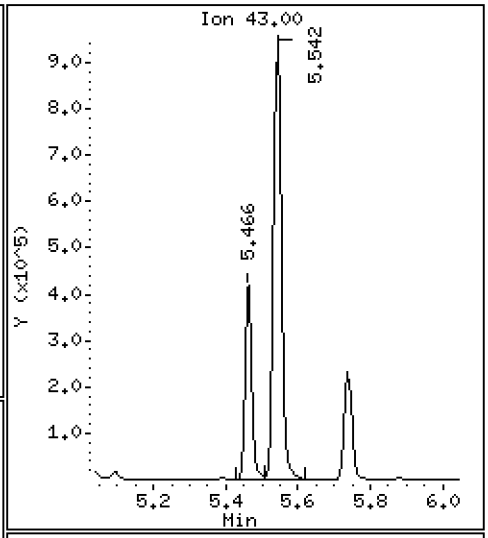
81 2-Hexanone Concentration: 282.455 ug/L

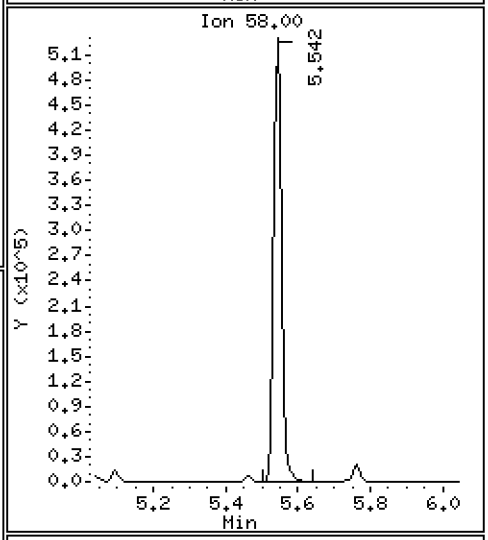


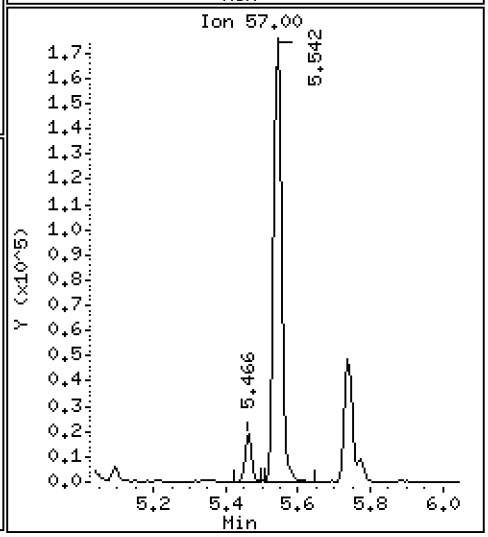












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 86

Date : 26-OCT-2016 09:18

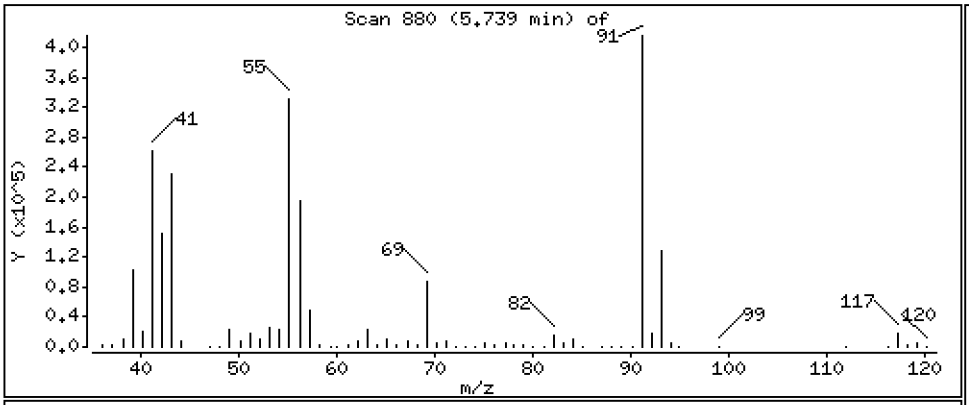
Client ID: Instrument: ms03.i

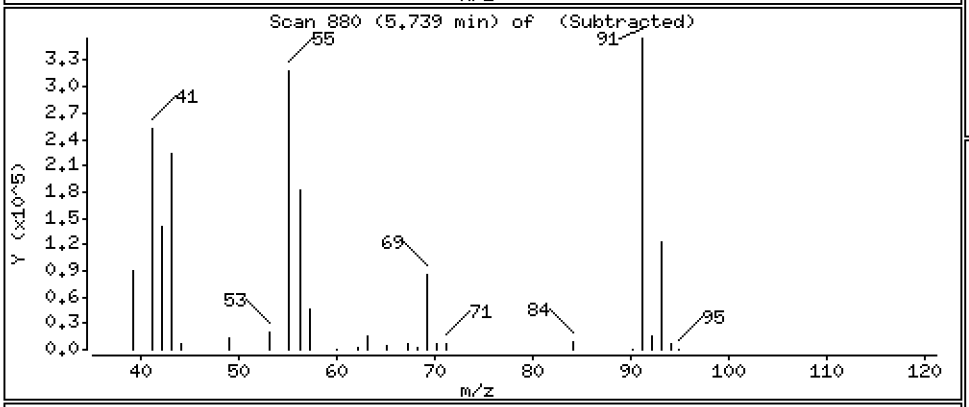
Sample Info: 1800;;1;2;4;;;

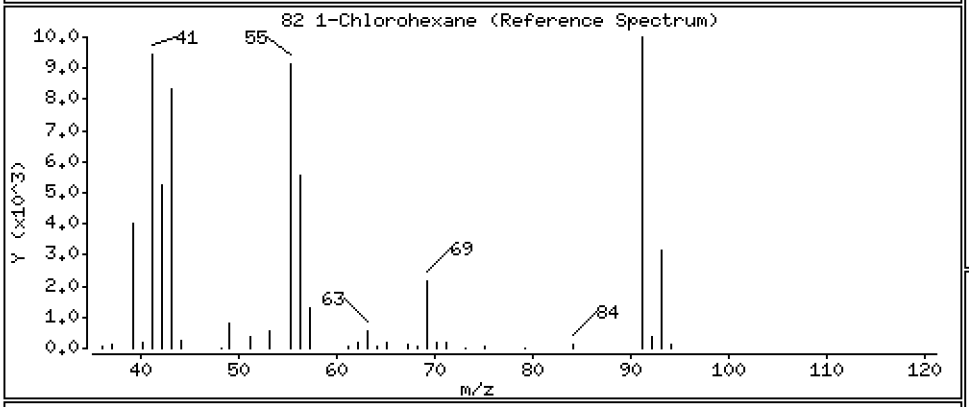
Purge Volume: 5.0 Operator: DD

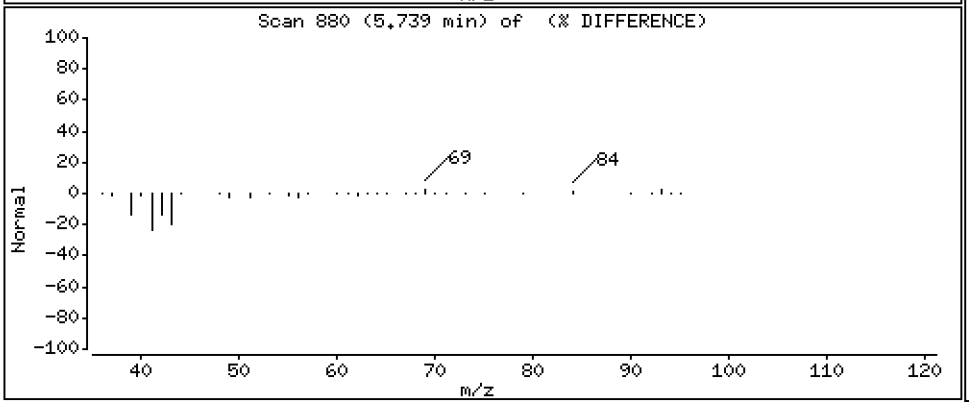
Column phase: DB-VRX Column diameter: 0.25

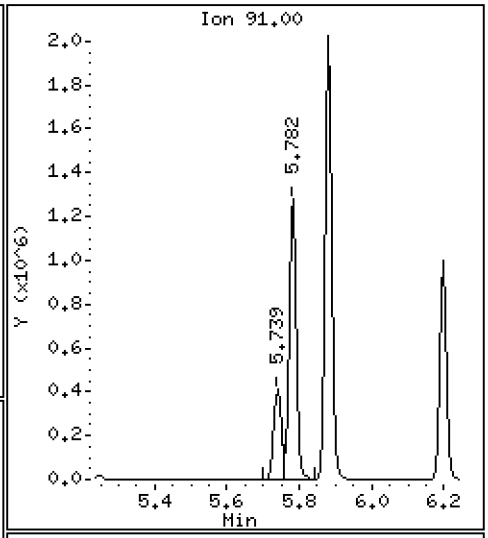
82 1-Chlorohexane Concentration: 50.1847 ug/L

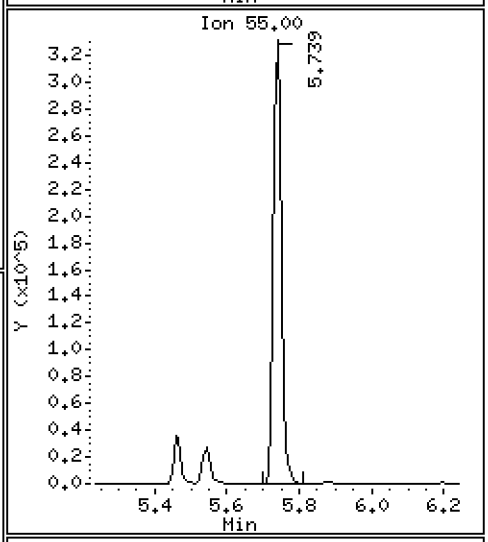


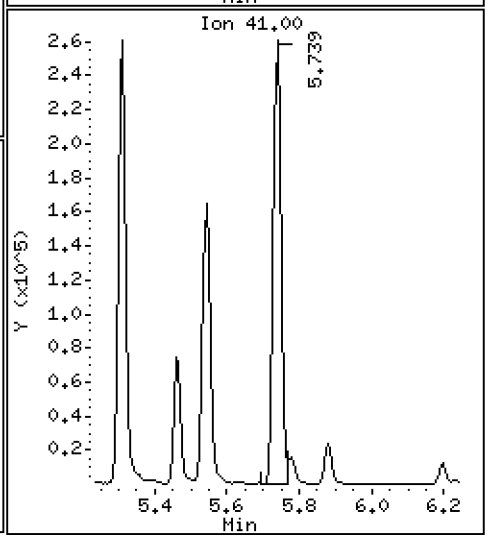












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 87

Date : 26-OCT-2016 09:18

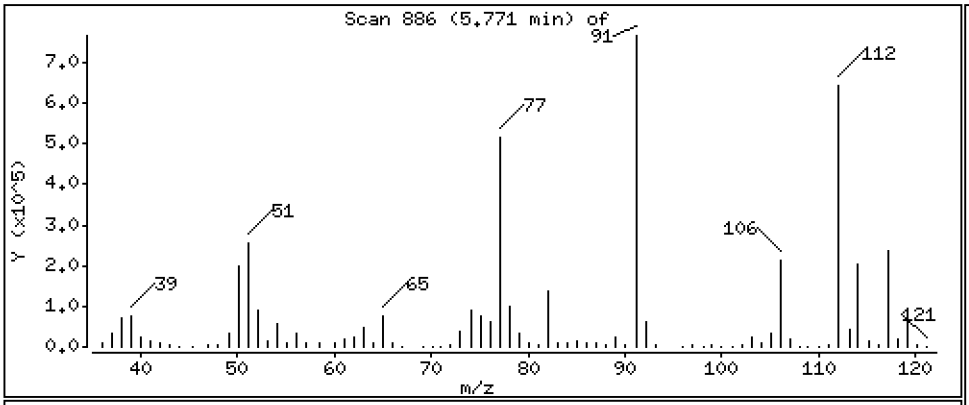
Client ID: Instrument: ms03.i

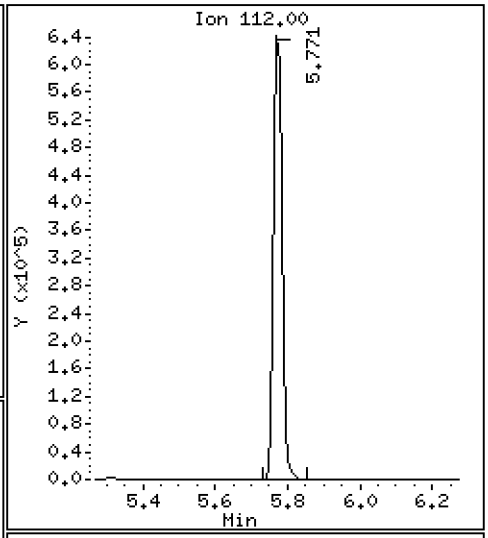
Sample Info: 1800;;1;2;4;;;

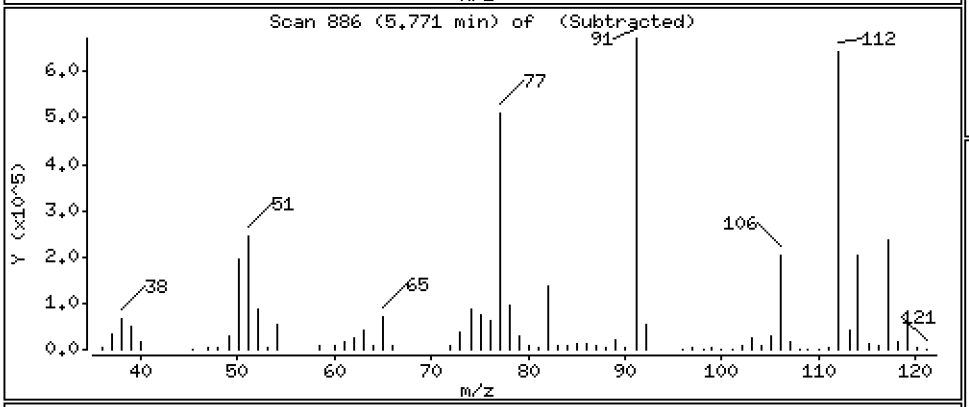
Purge Volume: 5.0 Operator: DD

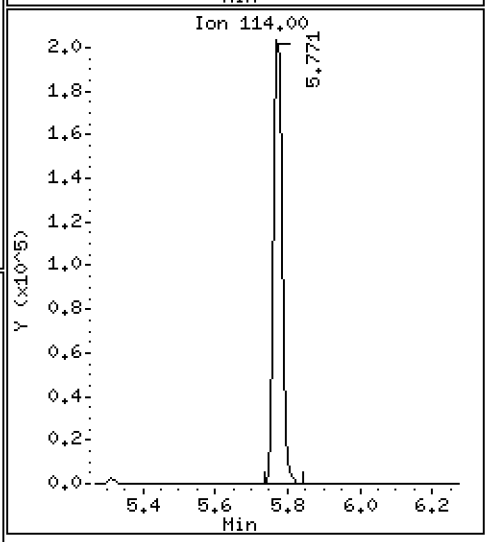
Column phase: DB-VRX Column diameter: 0.25

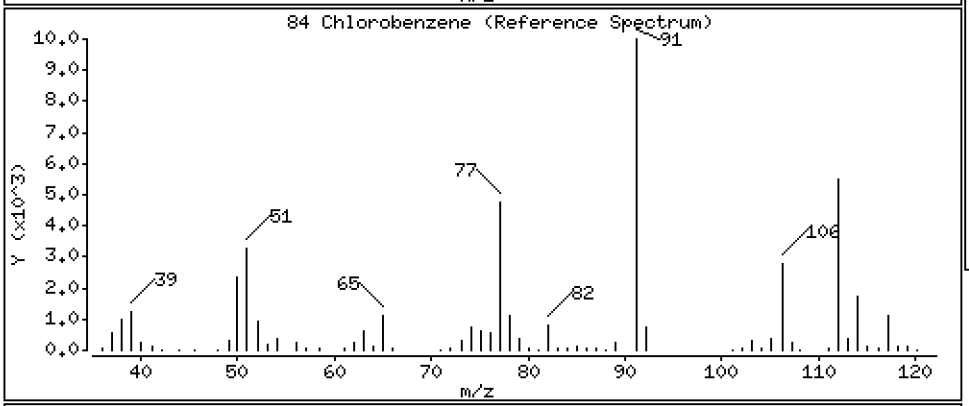
84 Chlorobenzene Concentration: 43.0376 ug/L

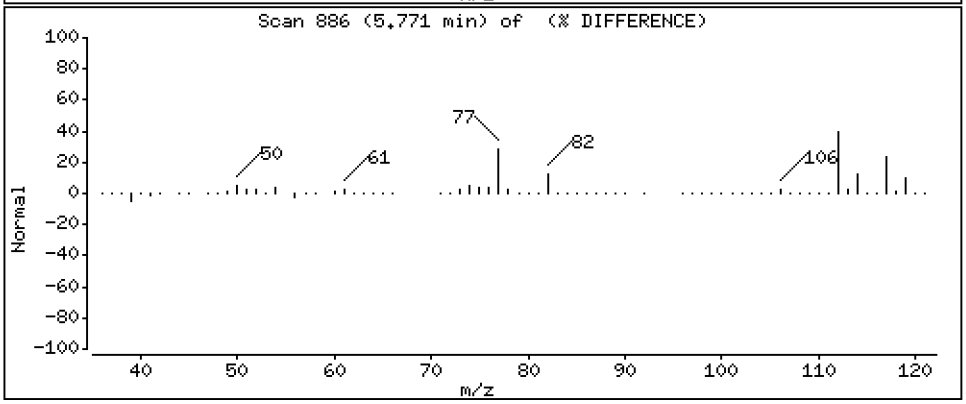












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 88

Date : 26-OCT-2016 09:18

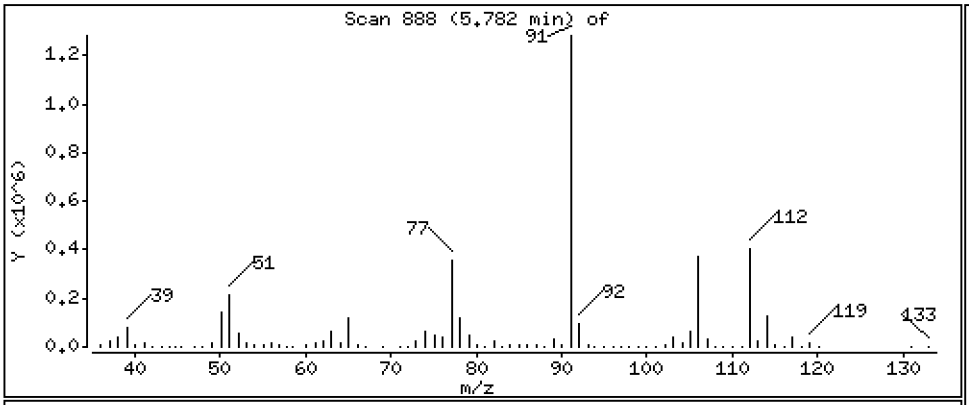
Client ID: Instrument: ms03.i

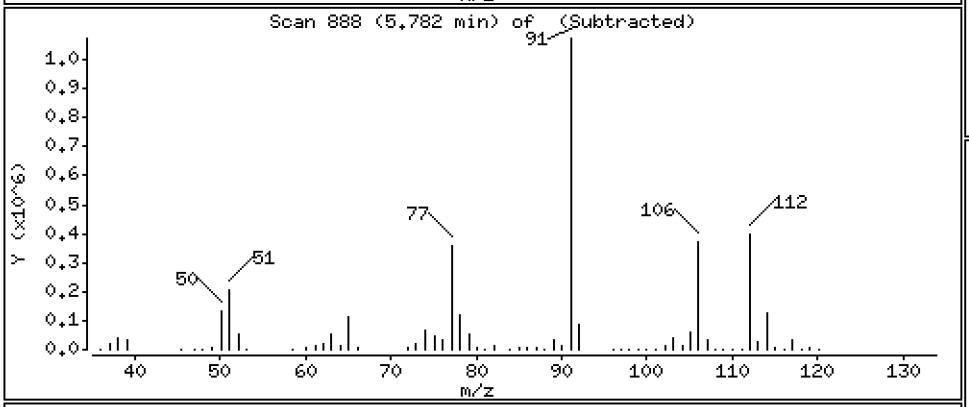
Sample Info: 1800;;1;2;4;;;

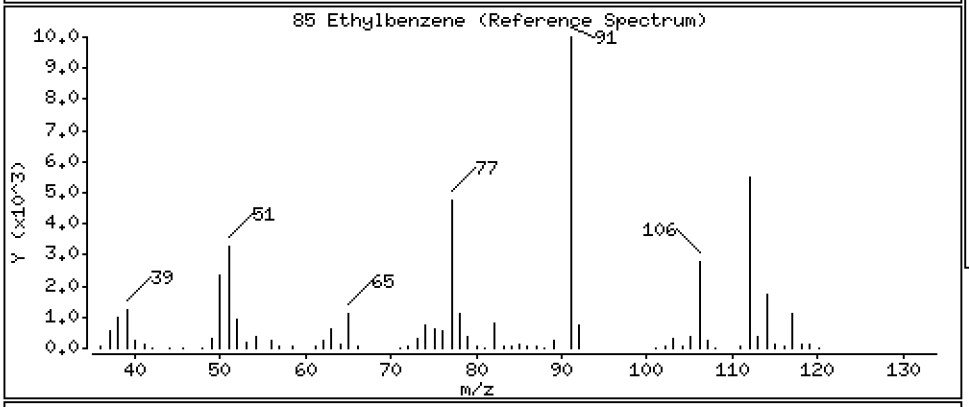
Purge Volume: 5.0 Operator: DD

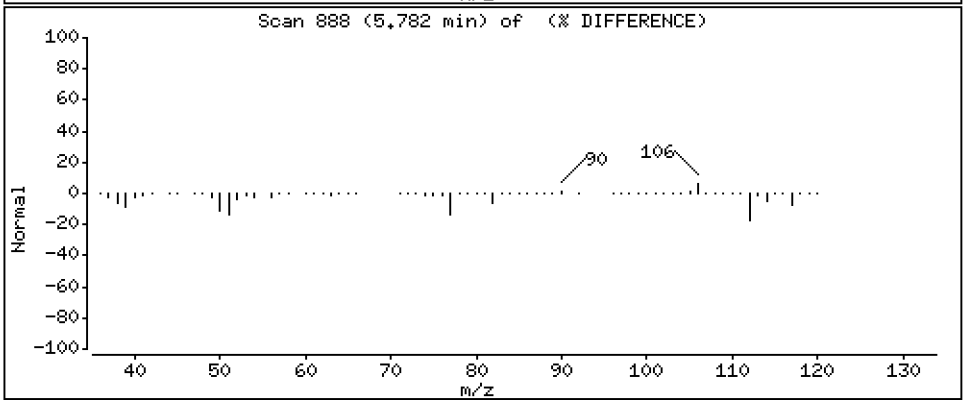
Column phase: DB-VRX Column diameter: 0.25

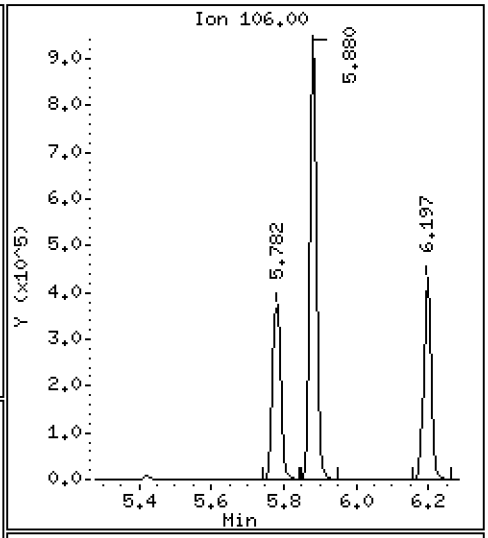
85 Ethylbenzene Concentration: 44.4106 ug/L

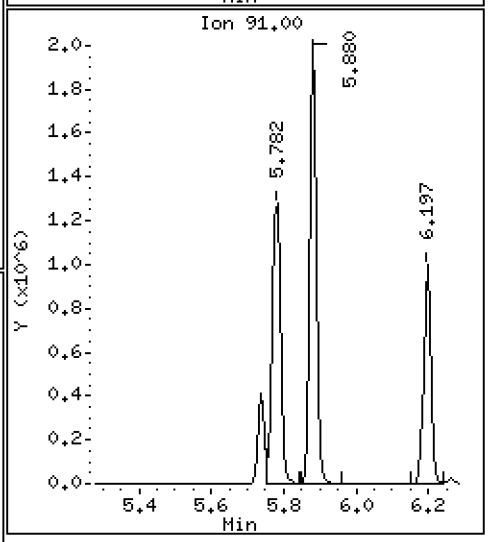












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 89

Date : 26-OCT-2016 09:18

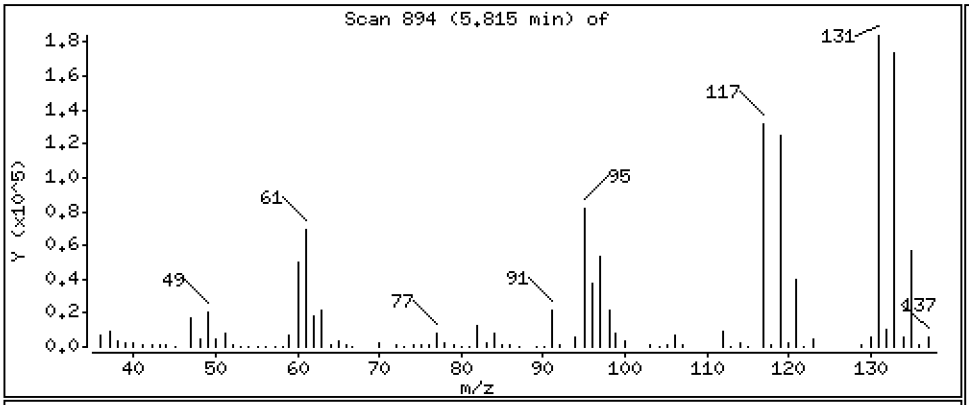
Client ID: Instrument: ms03.i

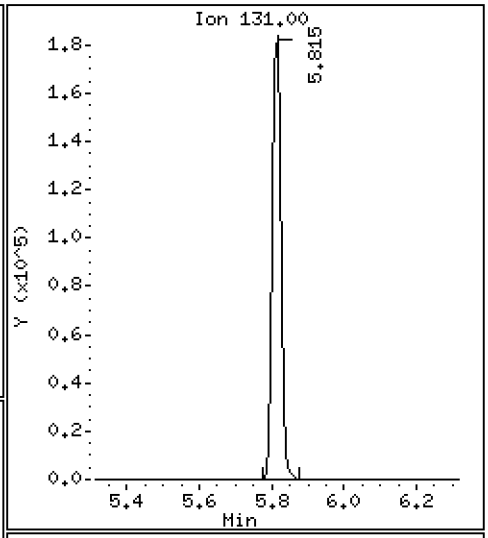
Sample Info: 1800;;1;2;4;;;

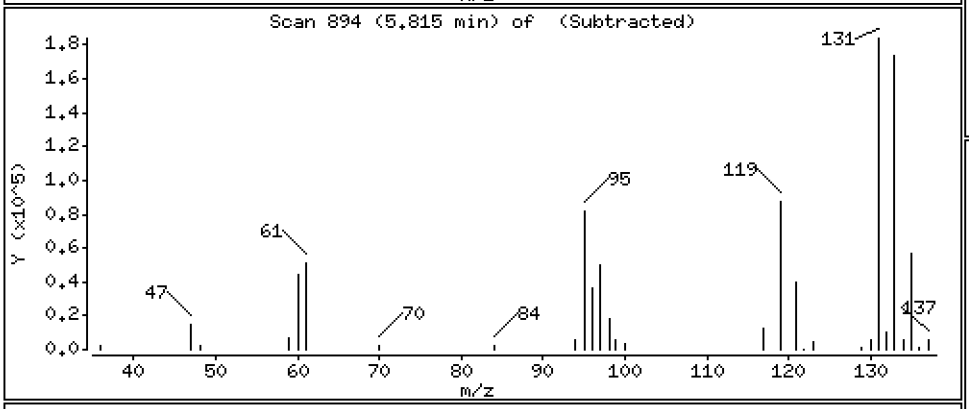
Purge Volume: 5.0 Operator: DD

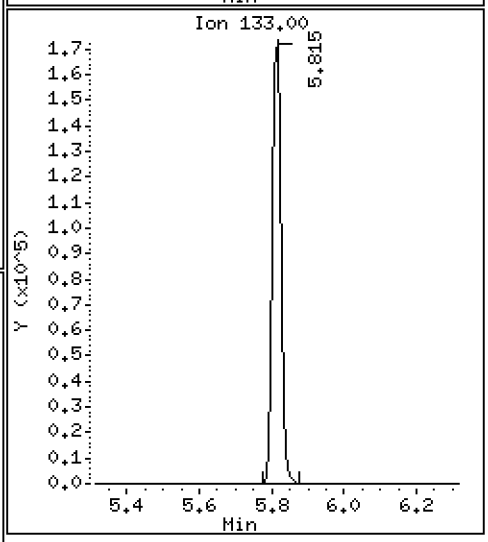
Column phase: DB-VRX Column diameter: 0.25

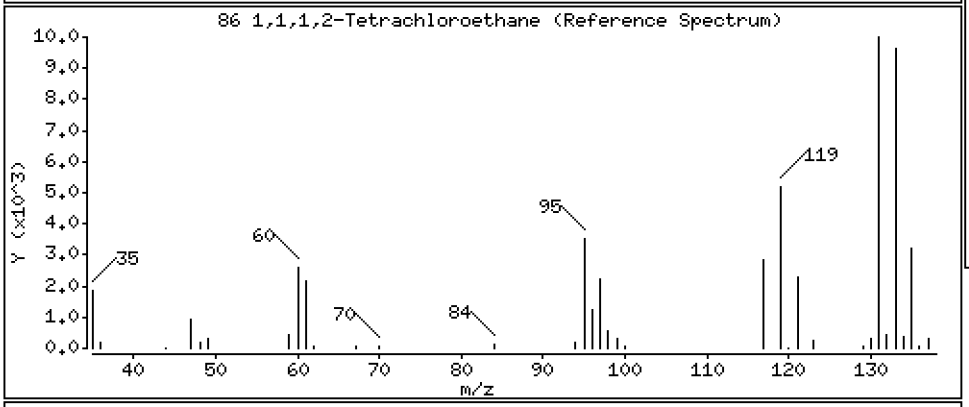
86 1,1,1,2-Tetrachloroethane Concentration: 47.0207 ug/L

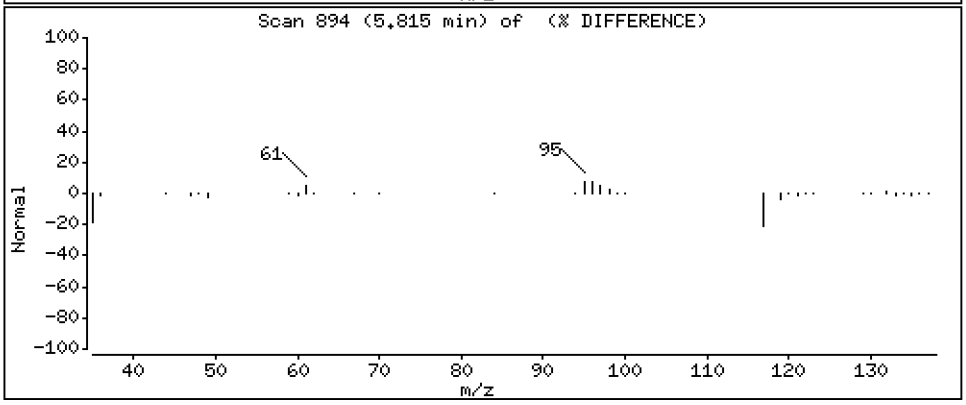












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 90

Date : 26-OCT-2016 09:18

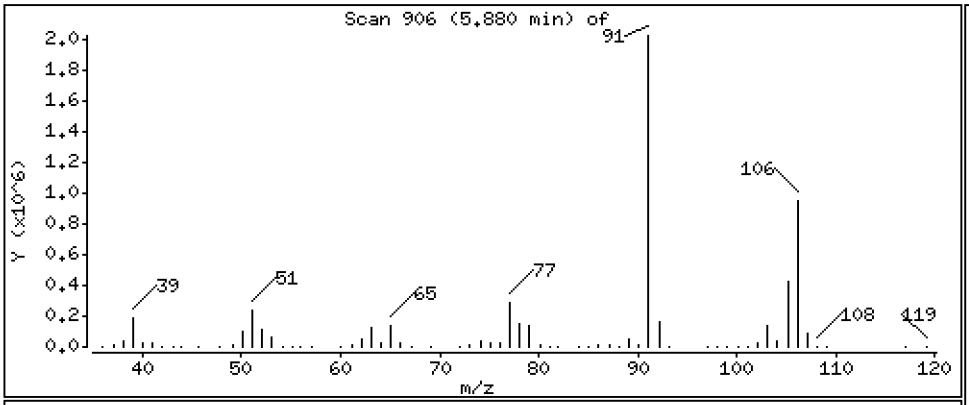
Client ID: Instrument: ms03.i

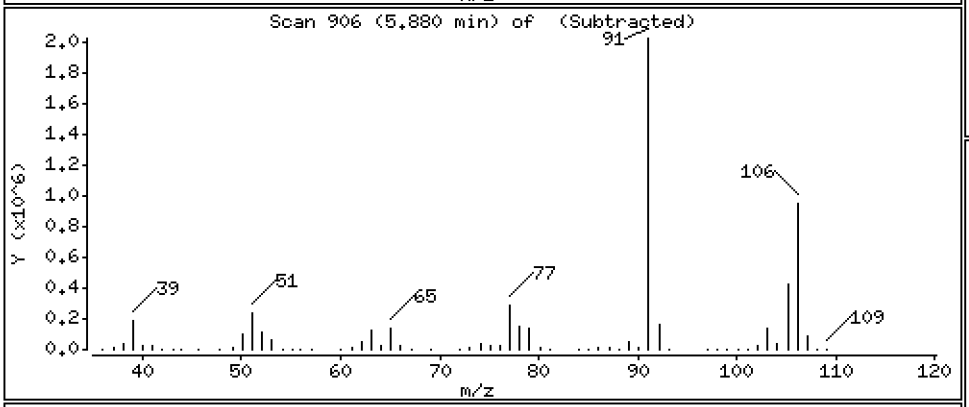
Sample Info: 1800;;1;2;4;;;

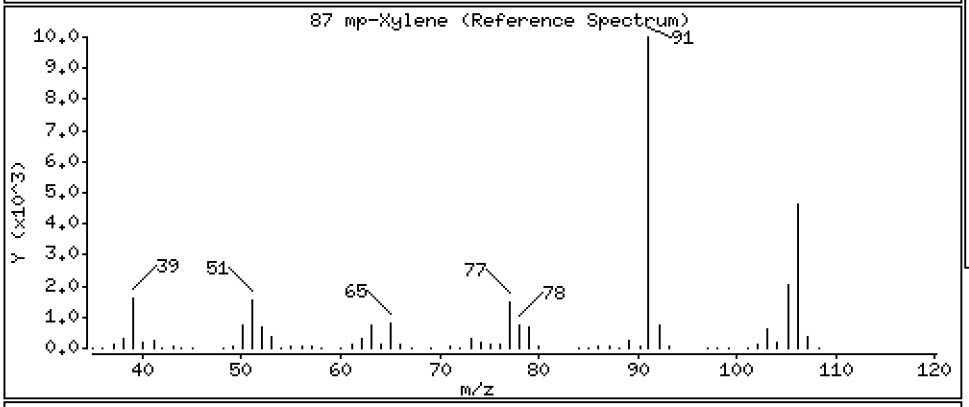
Purge Volume: 5.0 Operator: DD

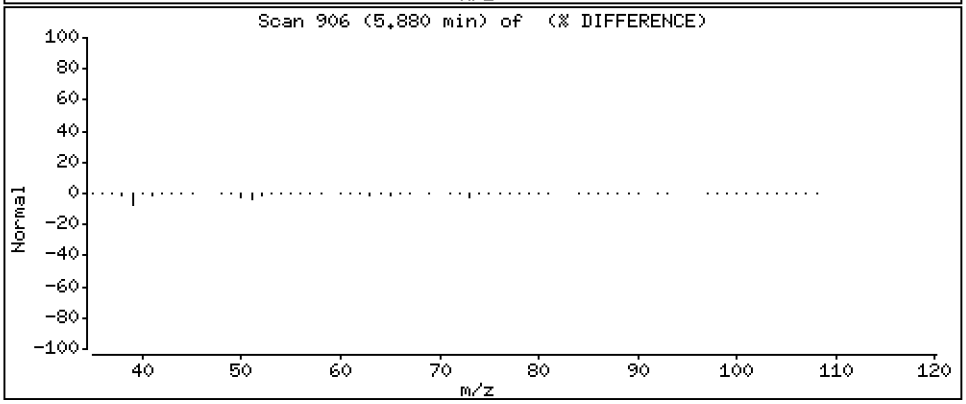
Column phase: DB-VRX Column diameter: 0.25

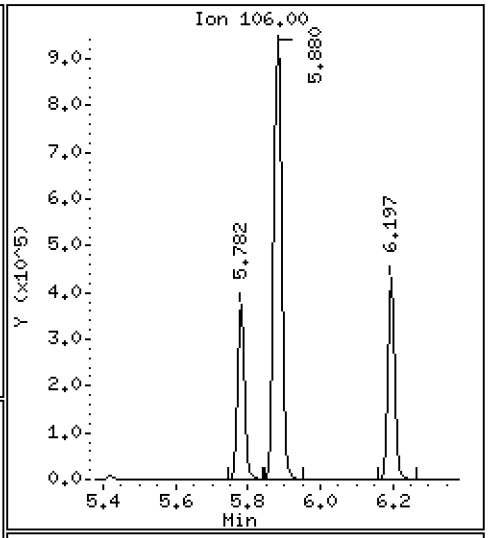
87 mp-Xylene Concentration: 91.9475 ug/L

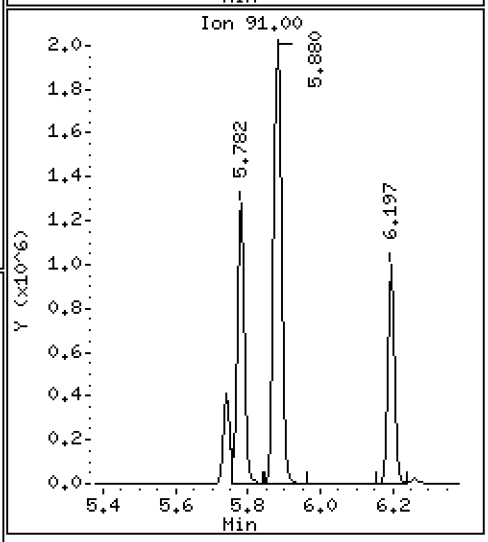












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 91

Date : 26-OCT-2016 09:18

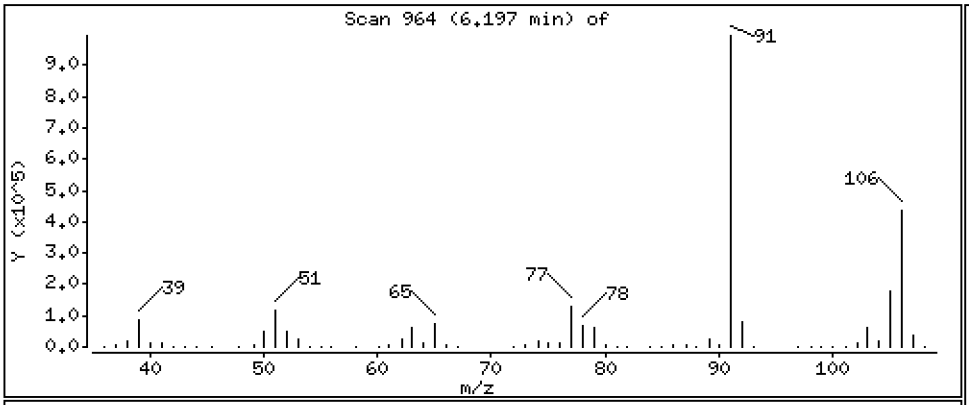
Client ID: Instrument: ms03.i

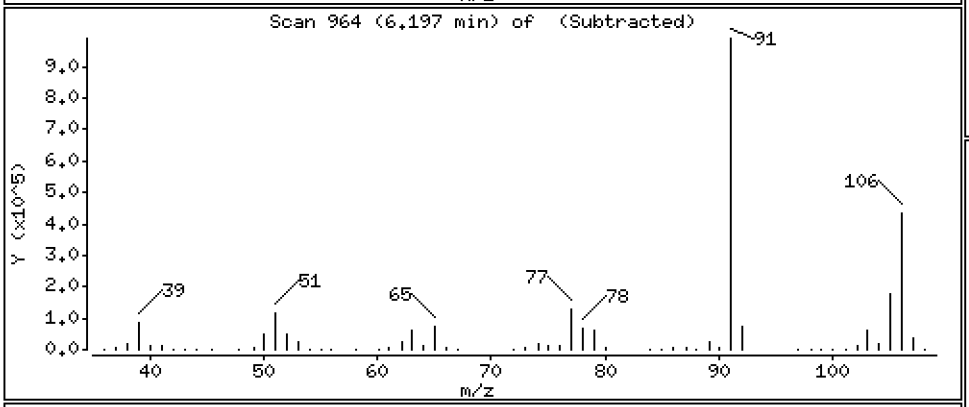
Sample Info: 1800;;1;2;4;;;

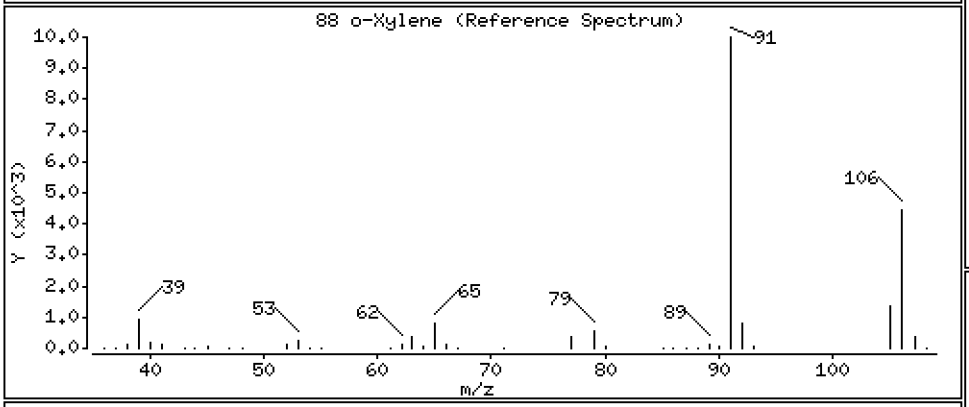
Purge Volume: 5.0 Operator: DD

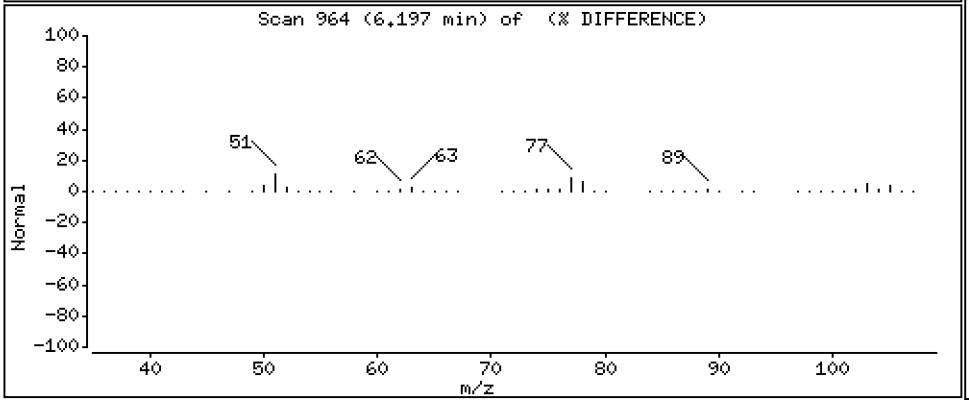
Column phase: DB-VRX Column diameter: 0.25

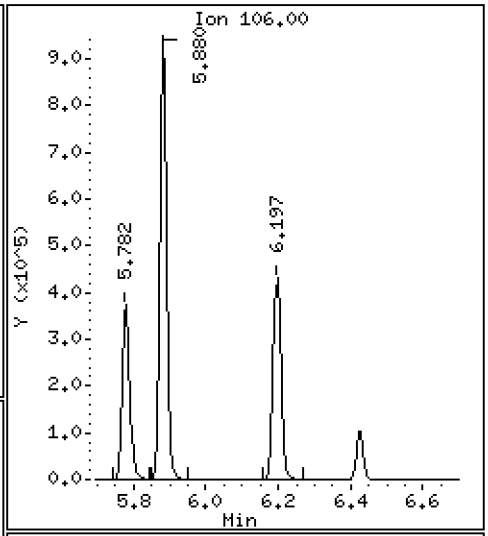
88 o-Xylene Concentration: 48.1312 ug/L

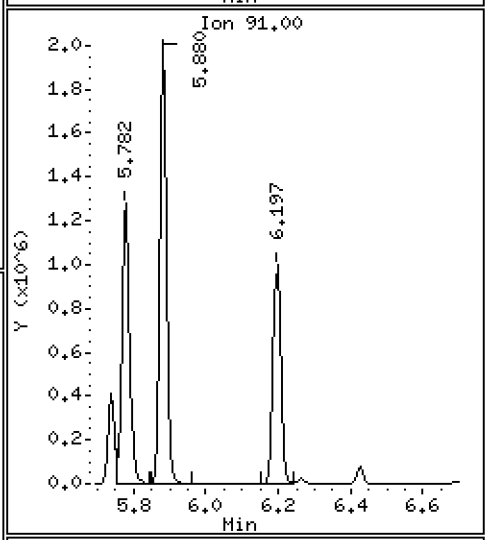


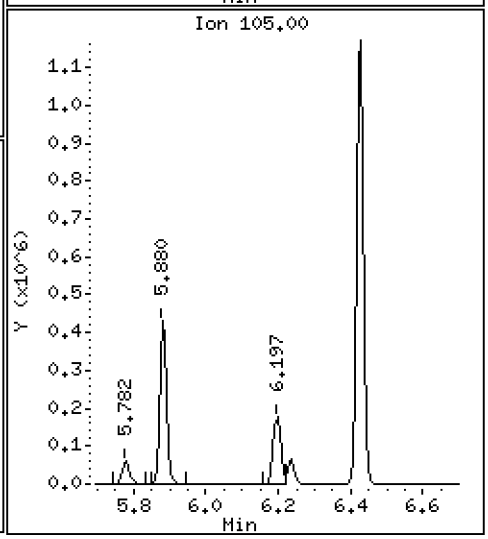












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 92

Date : 26-OCT-2016 09:18

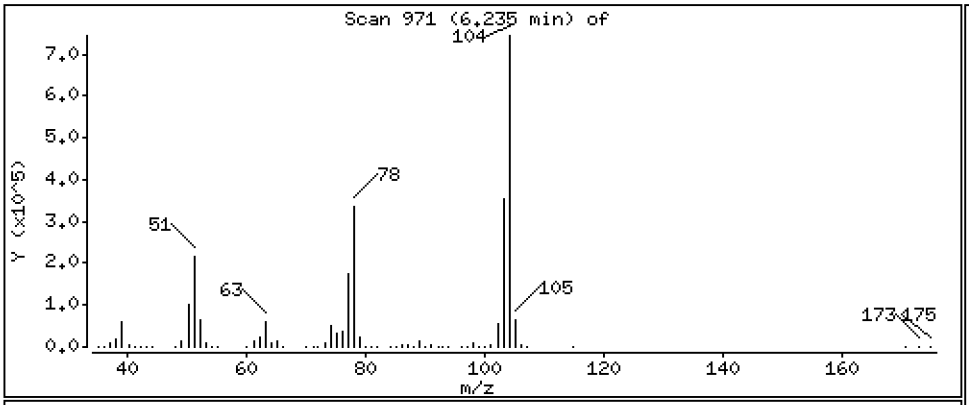
Client ID: Instrument: ms03.i

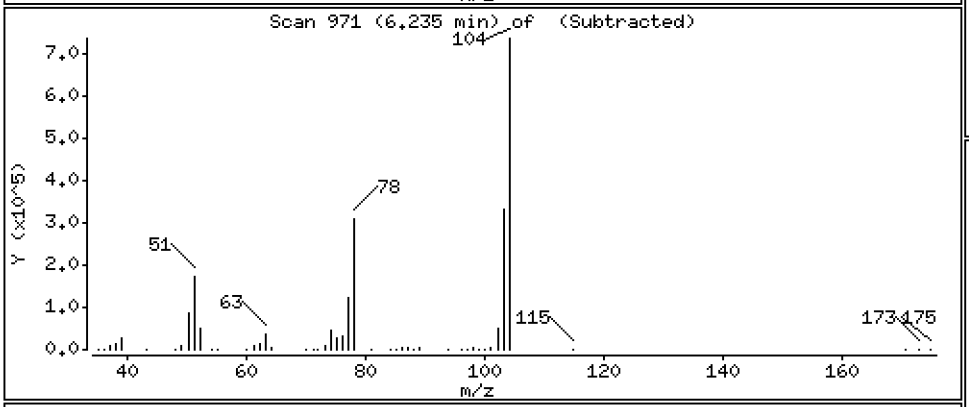
Sample Info: 1800;;1;2;4;;;

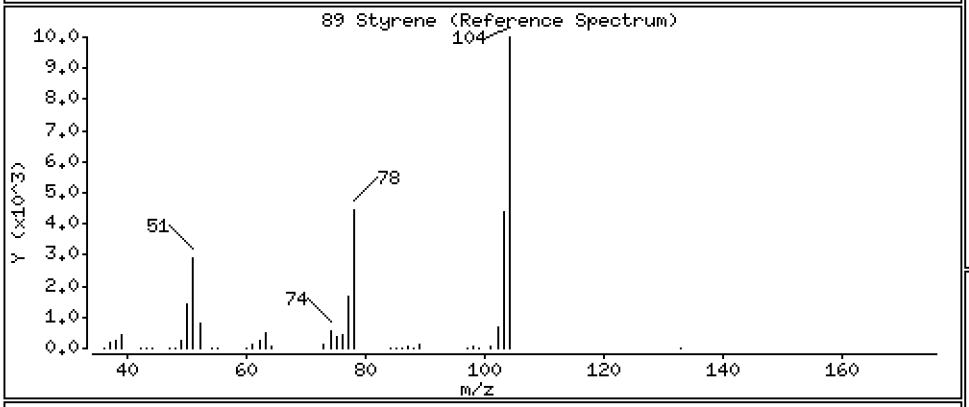
Purge Volume: 5.0 Operator: DD

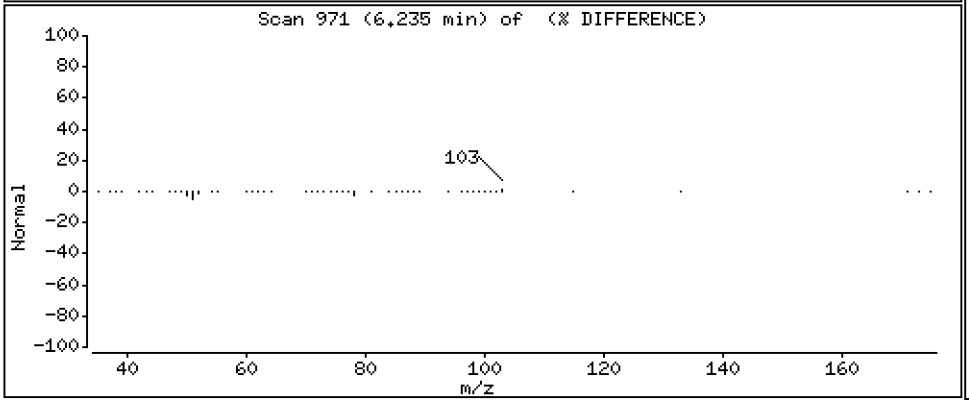
Column phase: DB-VRX Column diameter: 0.25

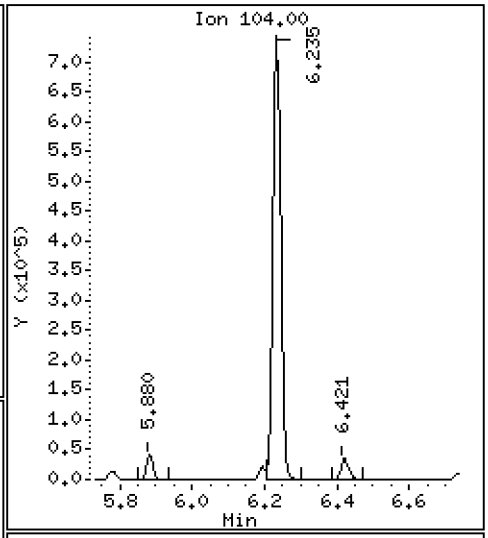
89 Styrene Concentration: 49.7718 ug/L

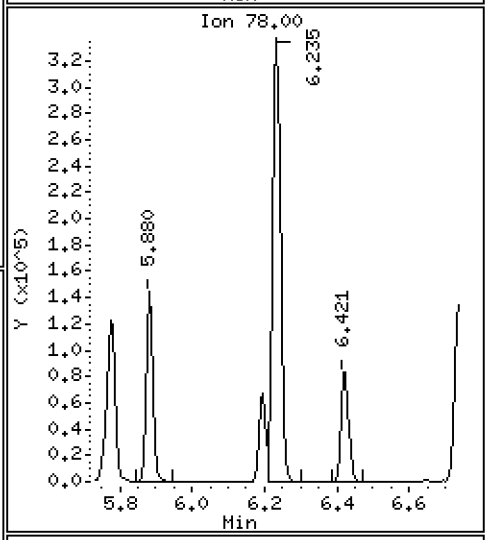


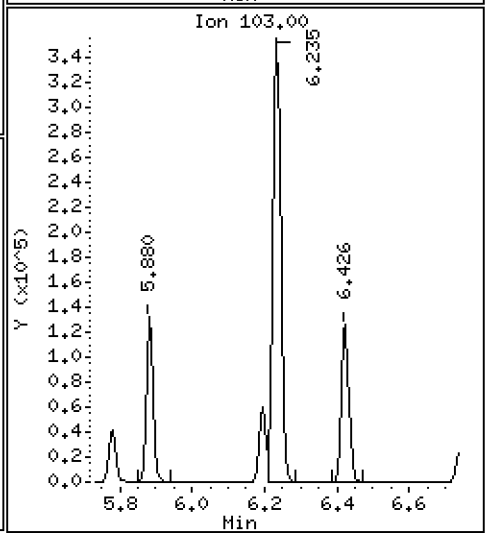












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 93

Date : 26-OCT-2016 09:18

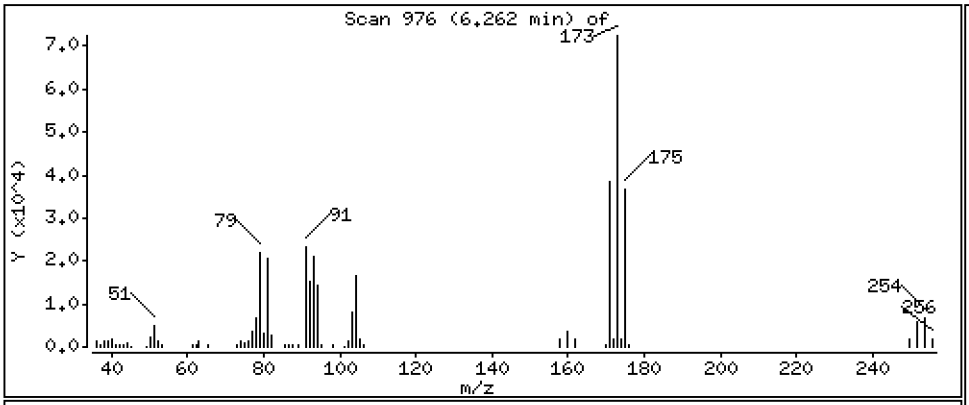
Client ID: Instrument: ms03.i

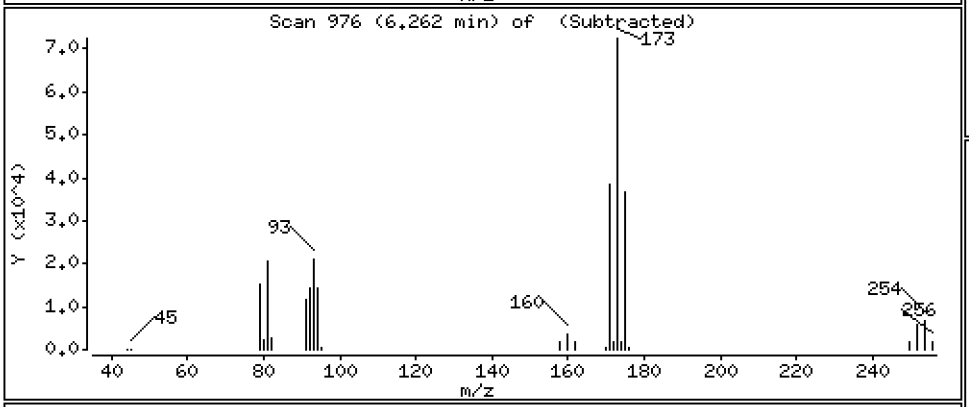
Sample Info: 1800;;1;2;4;;;

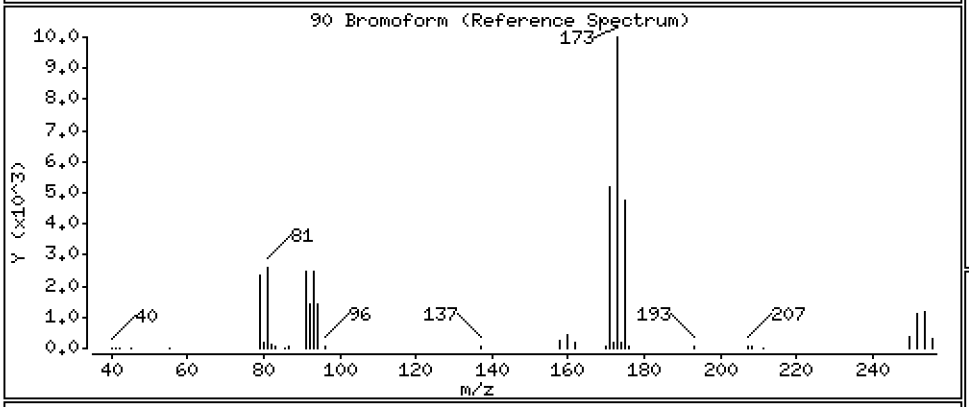
Purge Volume: 5.0 Operator: DD

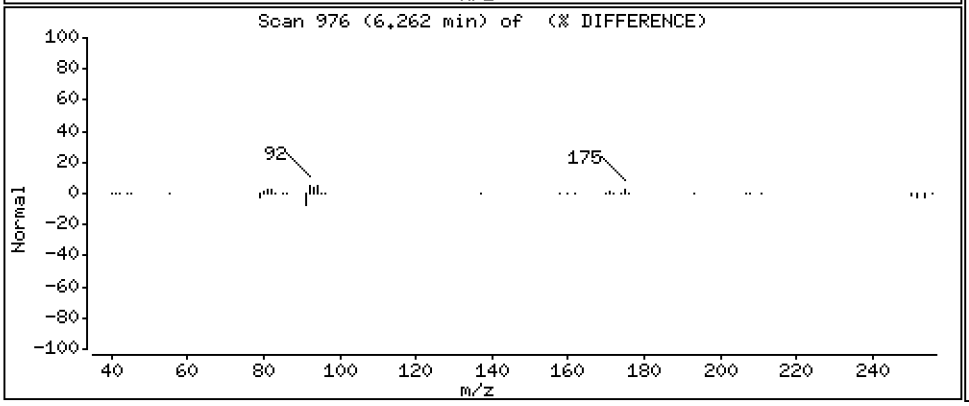
Column phase: DB-VRX Column diameter: 0.25

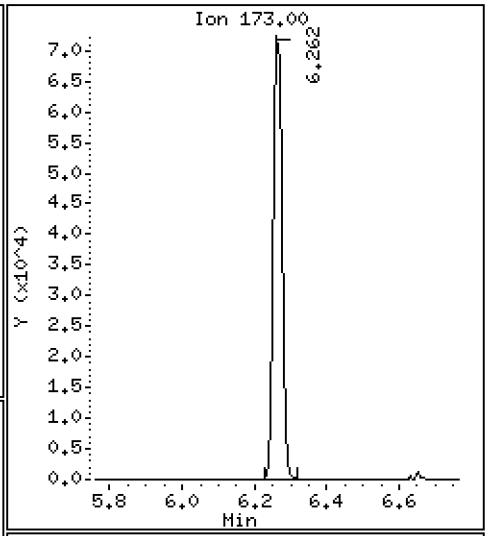
90 Bromoform Concentration: 42.2766 ug/L

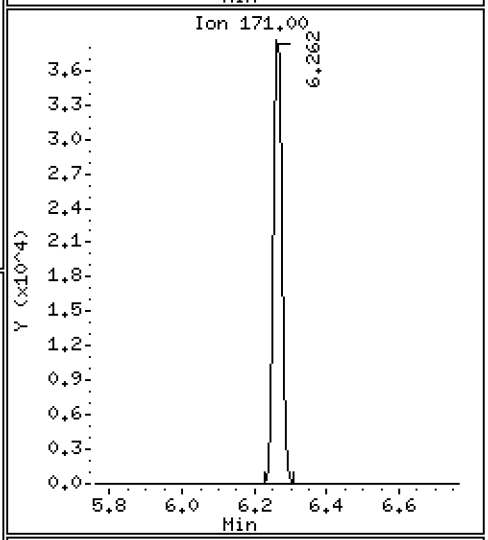


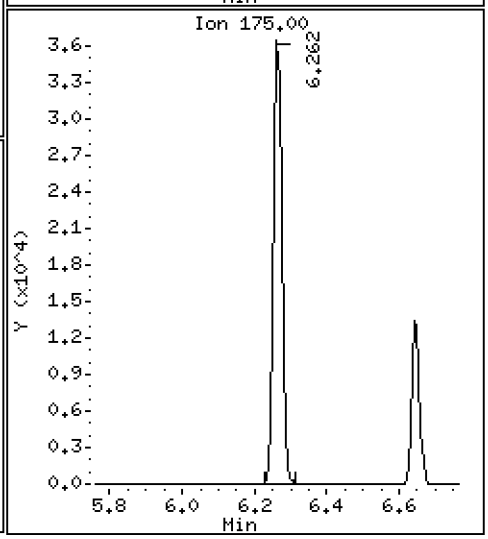












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 94

Date : 26-OCT-2016 09:18

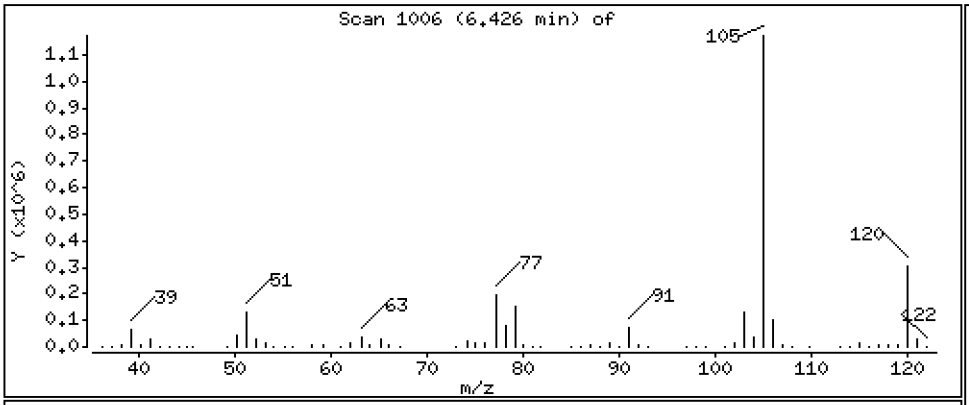
Client ID: Instrument: ms03.i

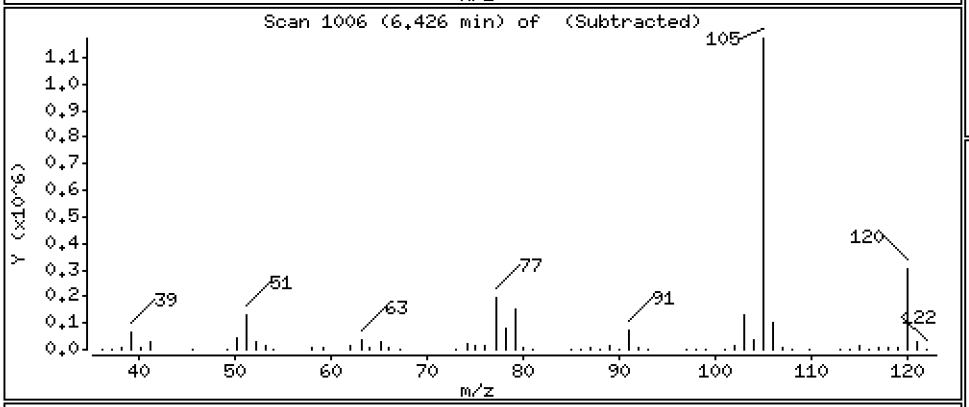
Sample Info: 1800;;1;2;4;;;

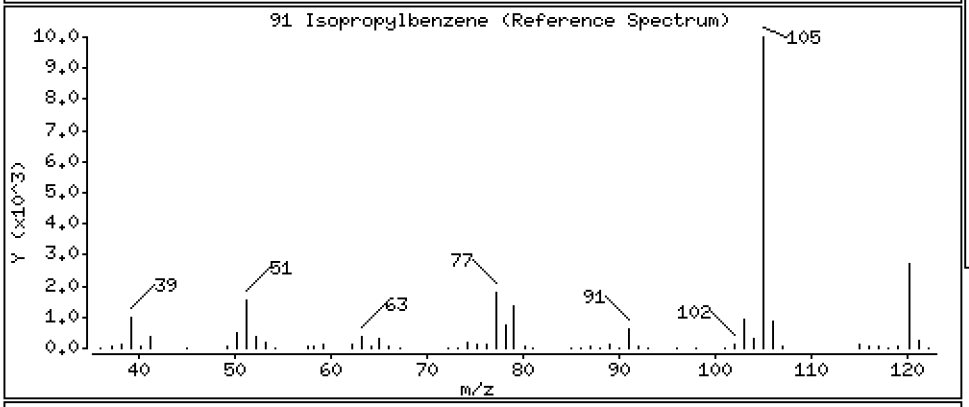
Purge Volume: 5.0 Operator: DD

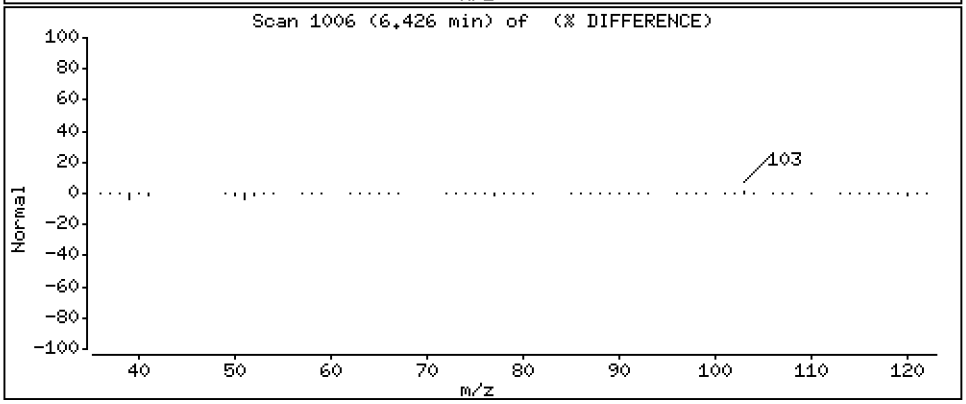
Column phase: DB-VRX Column diameter: 0.25

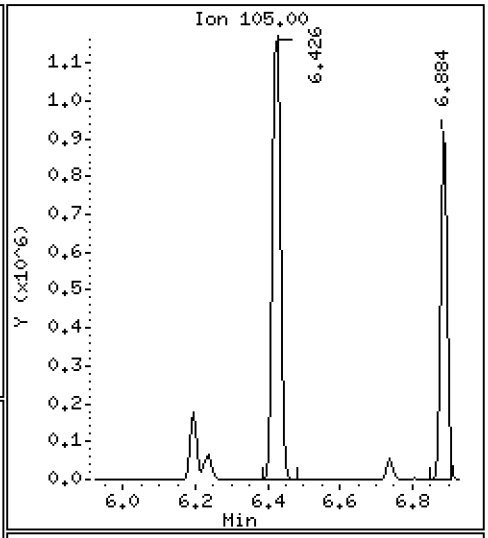
91 Isopropylbenzene Concentration: 49.0837 ug/L

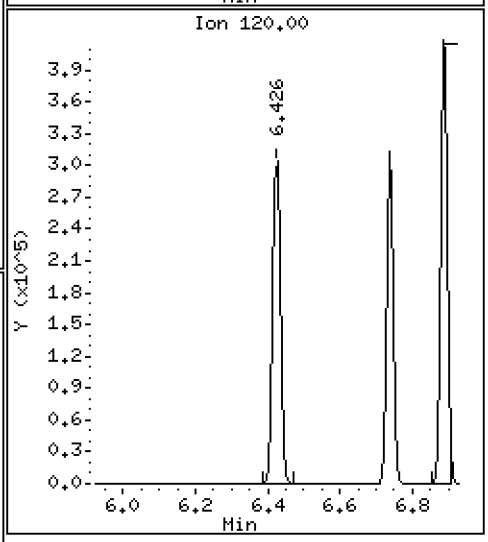












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 95

Date : 26-OCT-2016 09:18

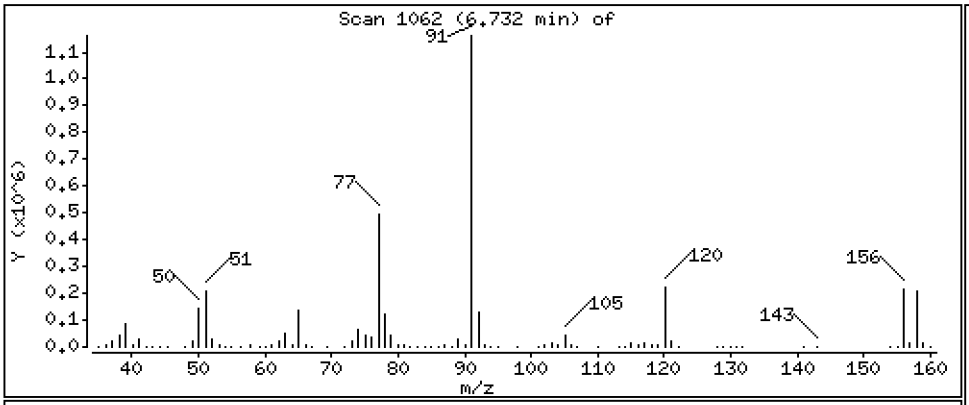
Client ID: Instrument: ms03.i

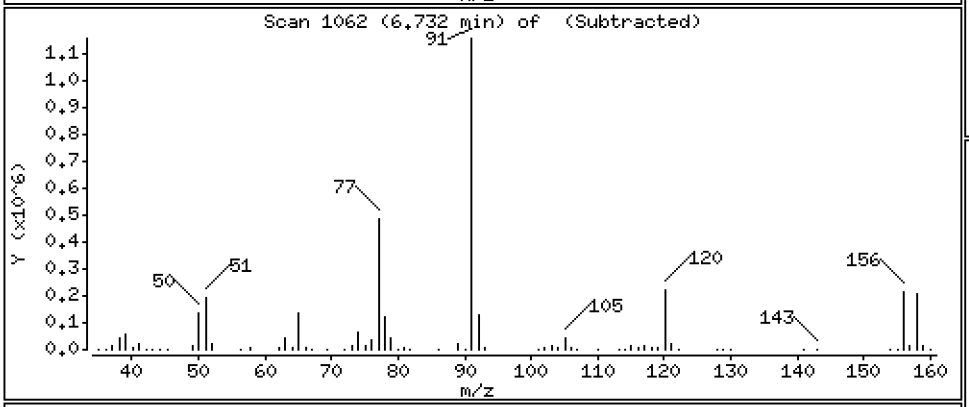
Sample Info: 1800;;1;2;4;;;

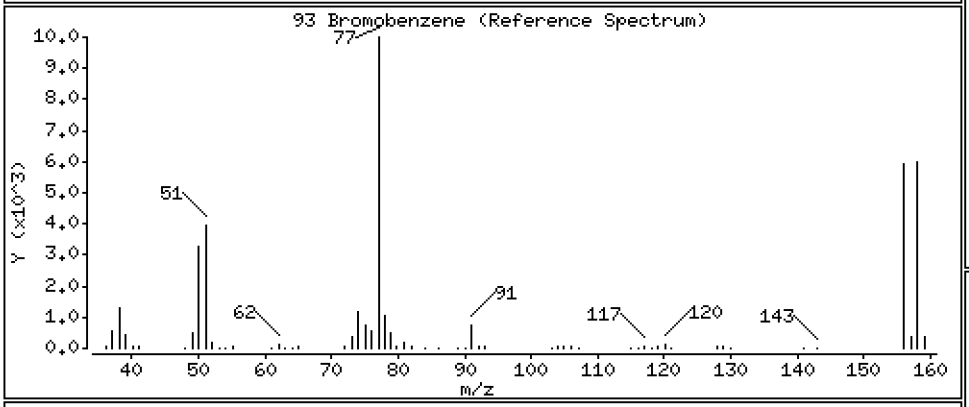
Purge Volume: 5.0 Operator: DD

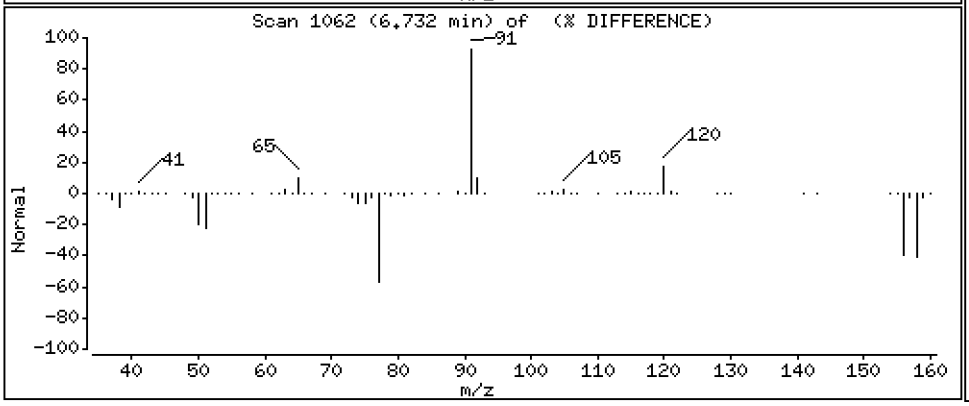
Column phase: DB-VRX Column diameter: 0.25

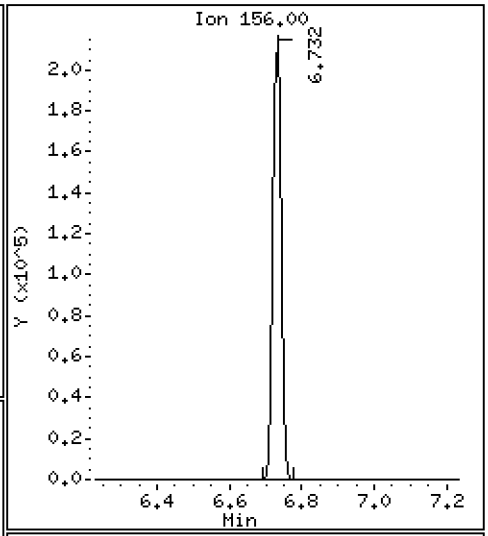
93 Bromobenzene Concentration: 44.6443 ug/L

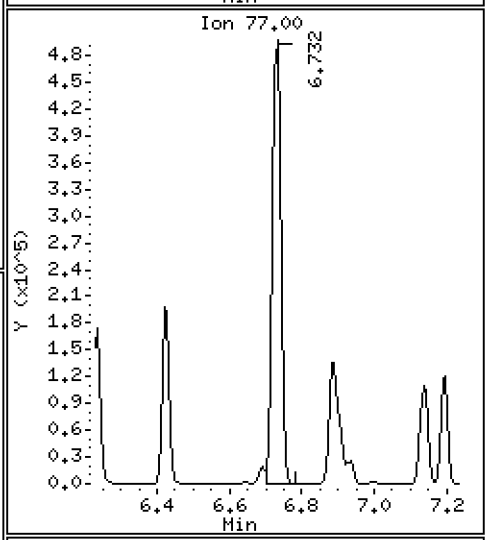


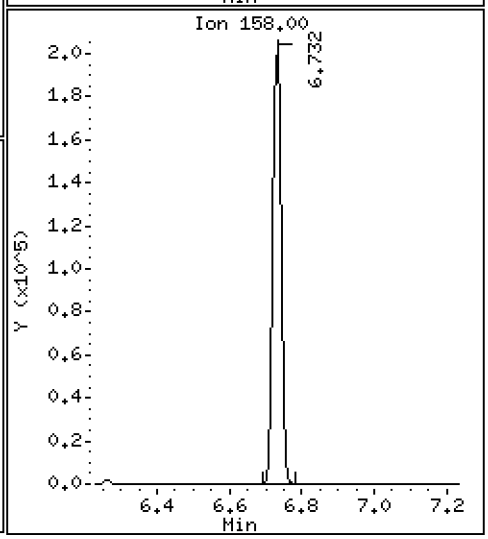












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 96

Date : 26-OCT-2016 09:18

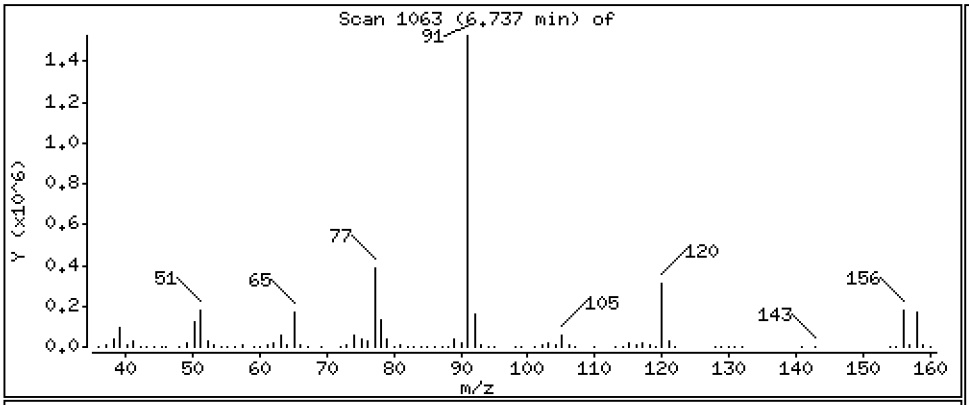
Client ID: Instrument: ms03.i

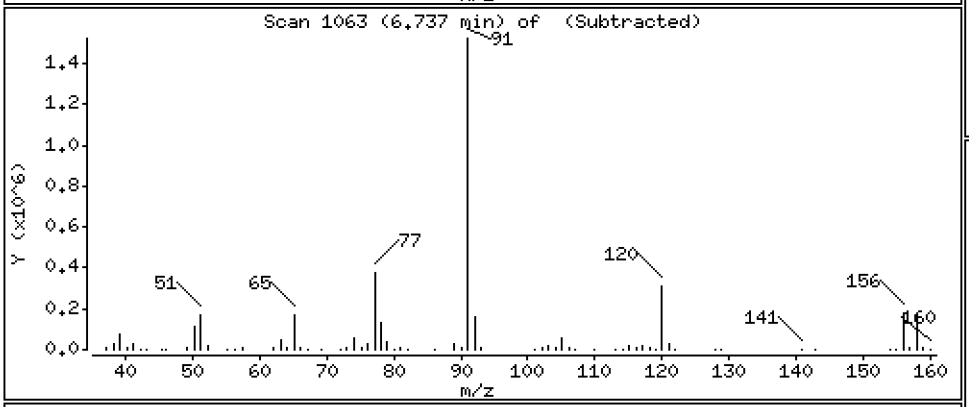
Sample Info: 1800;;1;2;4;;;

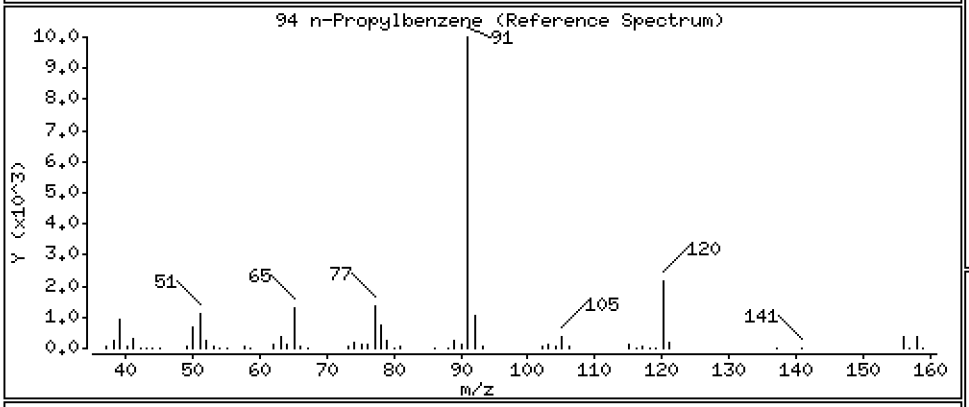
Purge Volume: 5.0 Operator: DD

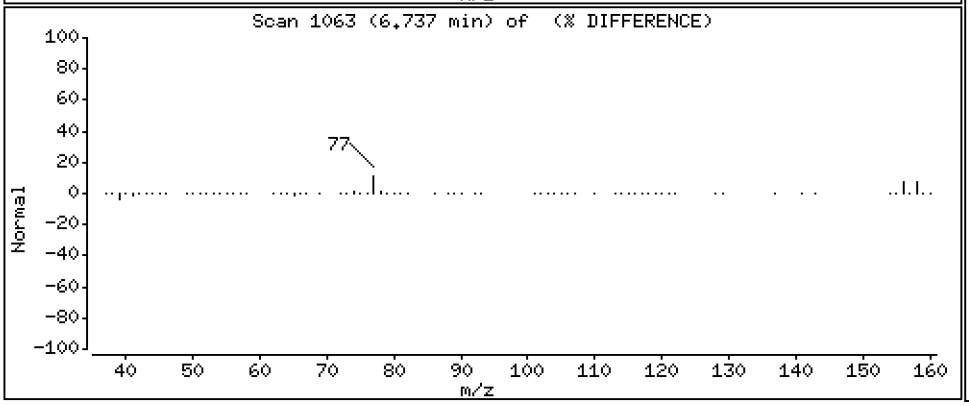
Column phase: DB-VRX Column diameter: 0.25

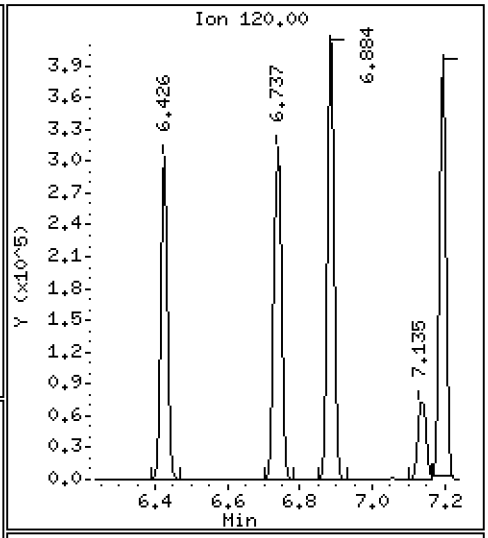
94 n-Propylbenzene Concentration: 49.9461 ug/L

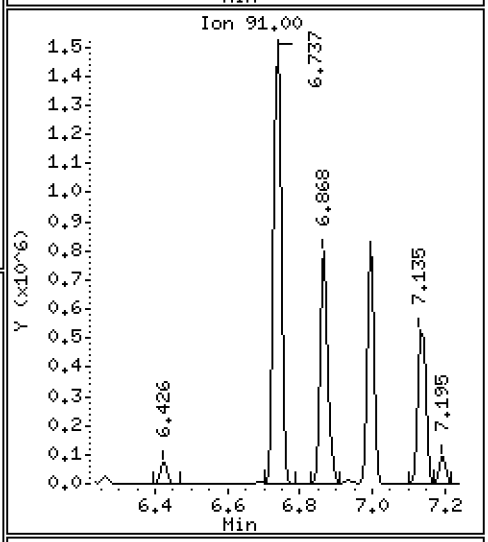


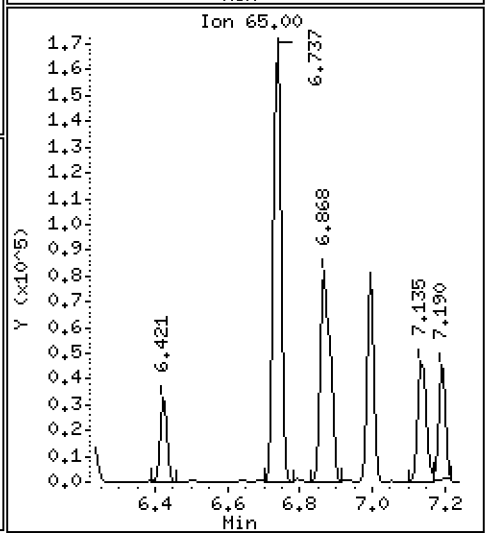












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 97

Date : 26-OCT-2016 09:18

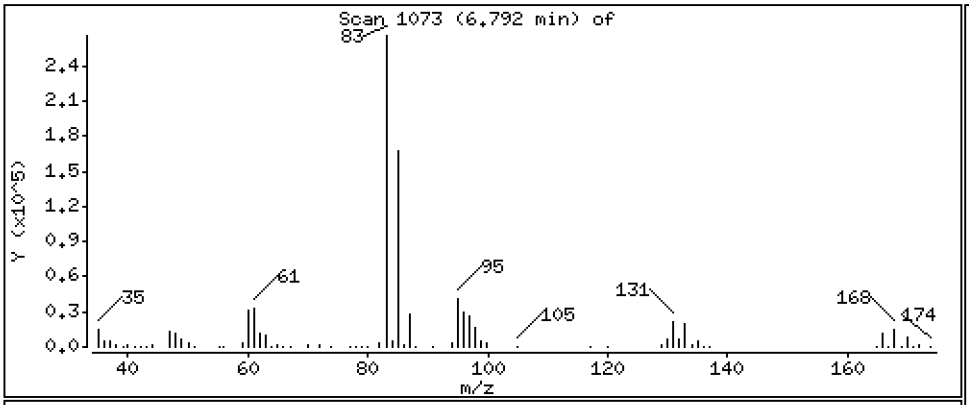
Client ID: Instrument: ms03.i

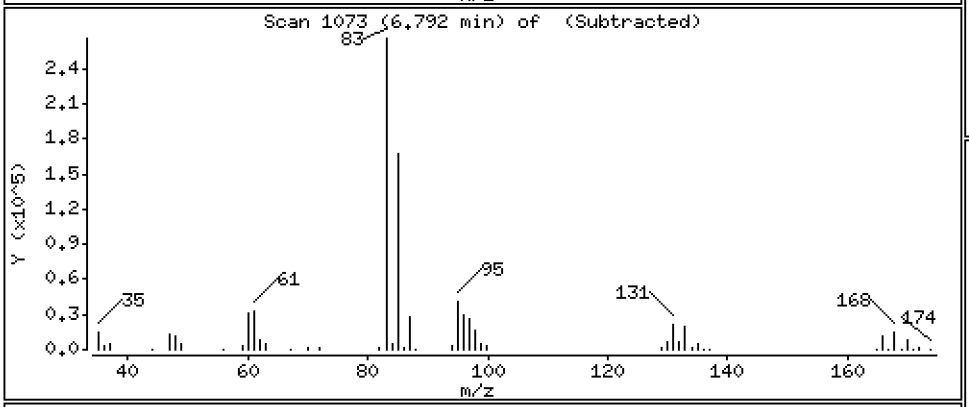
Sample Info: 1800;;1;2;4;;;

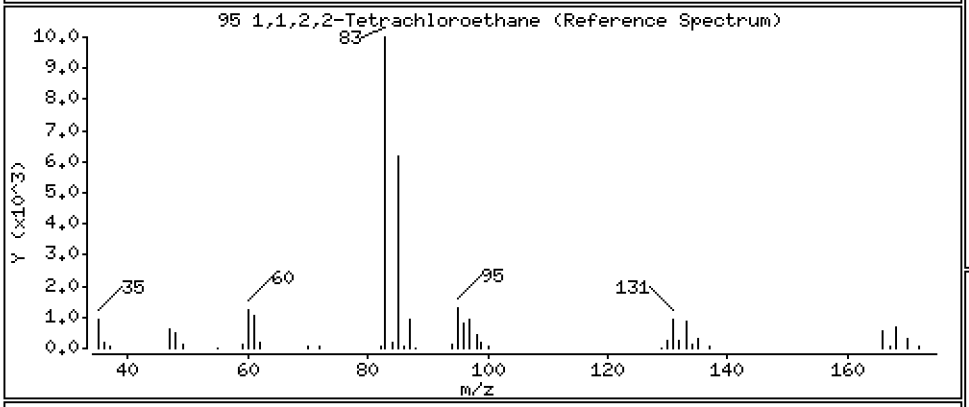
Purge Volume: 5.0 Operator: DD

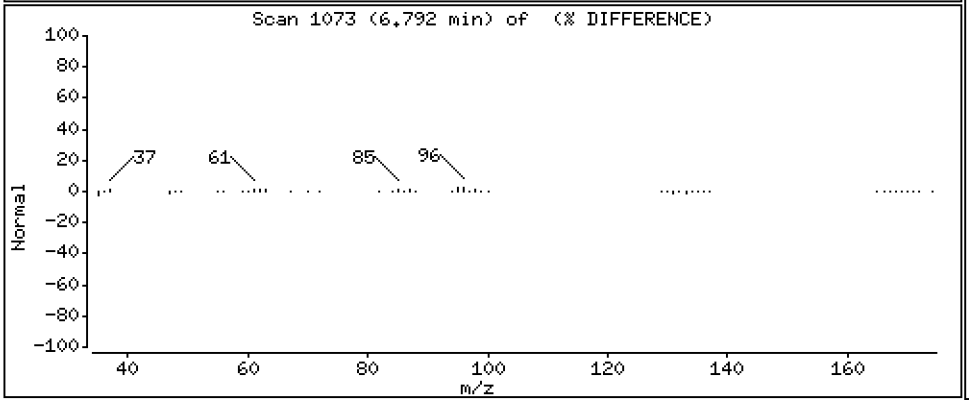
Column phase: DB-VRX Column diameter: 0.25

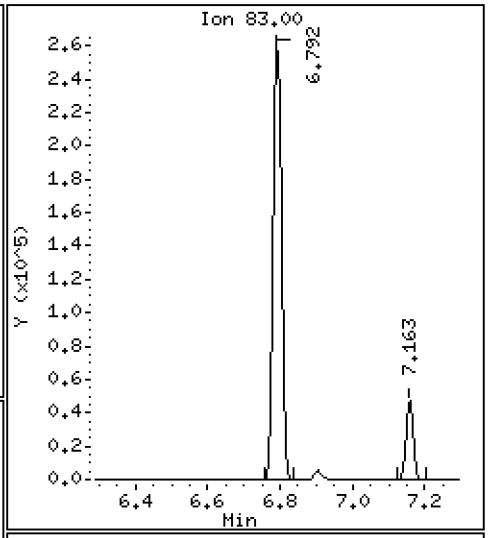
95 1,1,2,2-Tetrachloroethane Concentration: 47.0264 ug/L

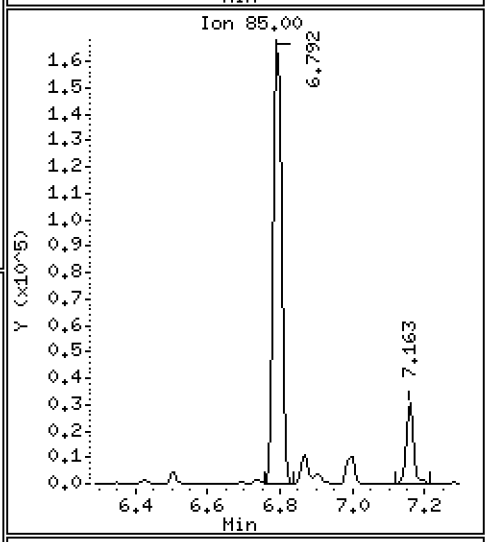


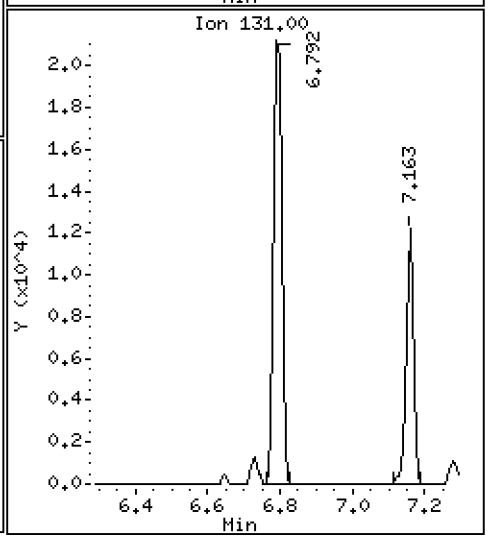












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 98

Date : 26-OCT-2016 09:18

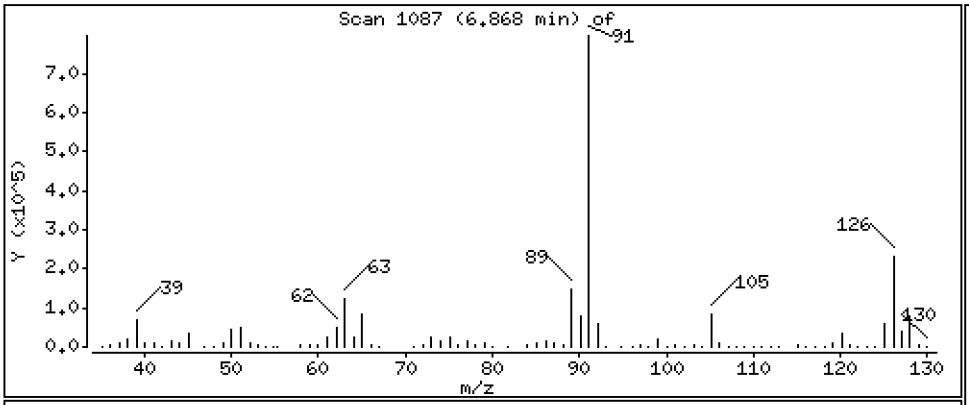
Client ID: Instrument: ms03.i

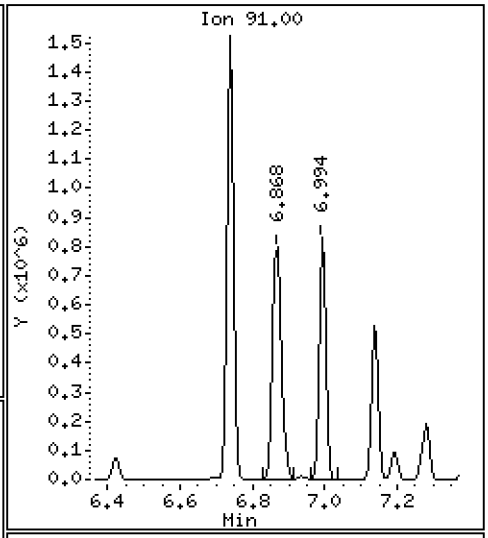
Sample Info: 1800;;1;2;4;;;

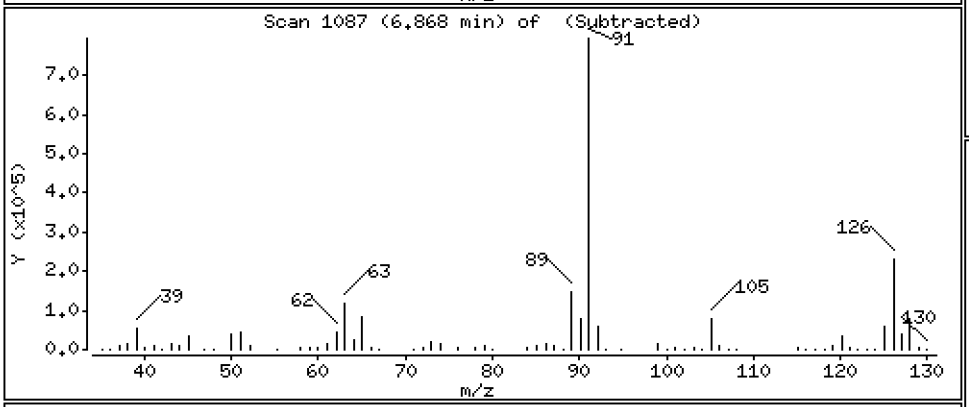
Purge Volume: 5.0 Operator: DD

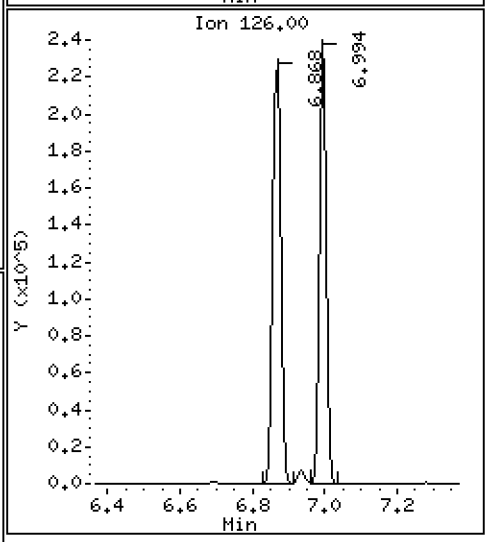
Column phase: DB-VRX Column diameter: 0.25

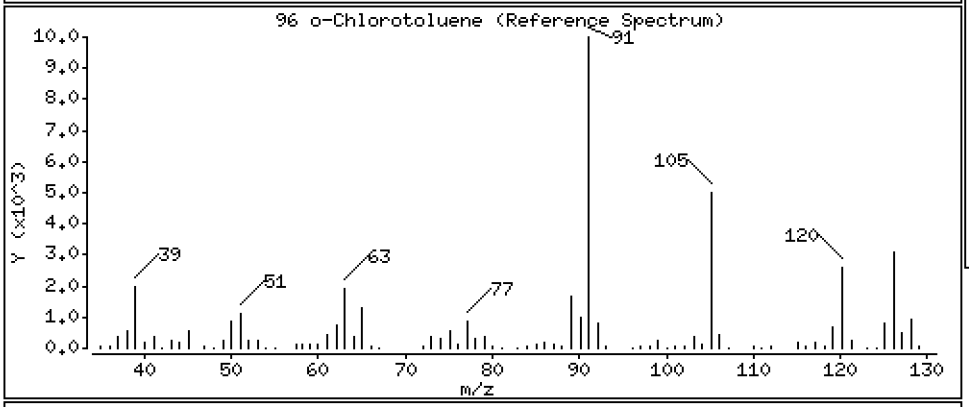
96 o-Chlorotoluene Concentration: 48.3510 ug/L

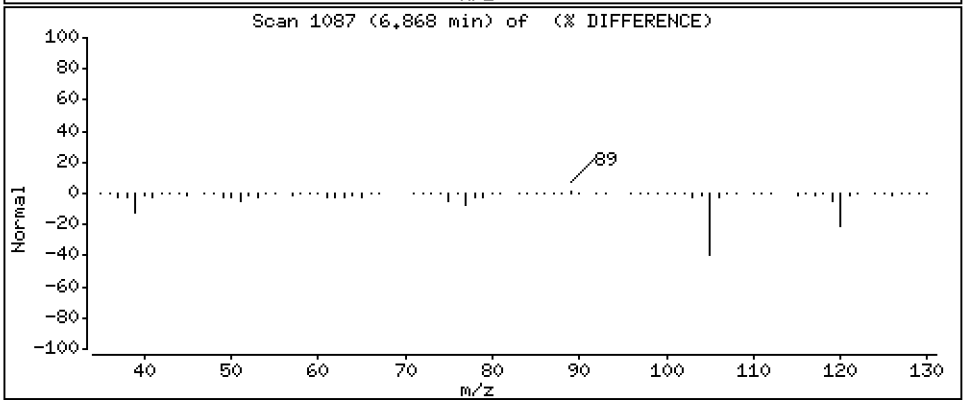












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 99

Date : 26-OCT-2016 09:18

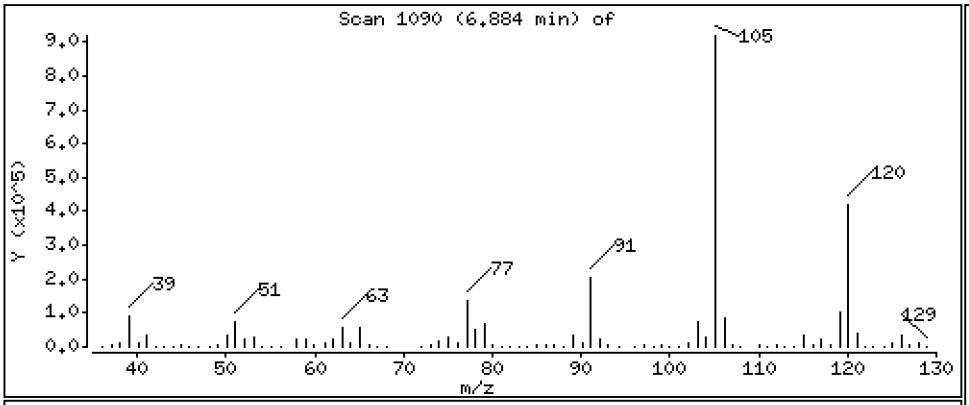
Client ID: Instrument: ms03.i

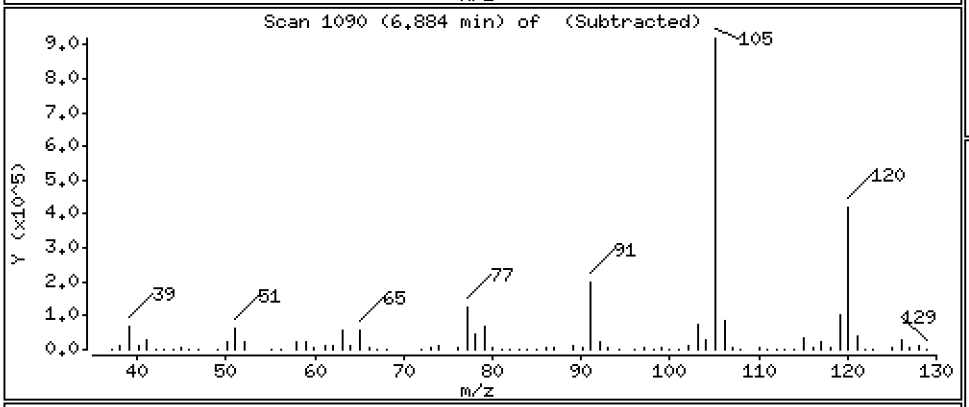
Sample Info: 1800;;1;2;4;;;

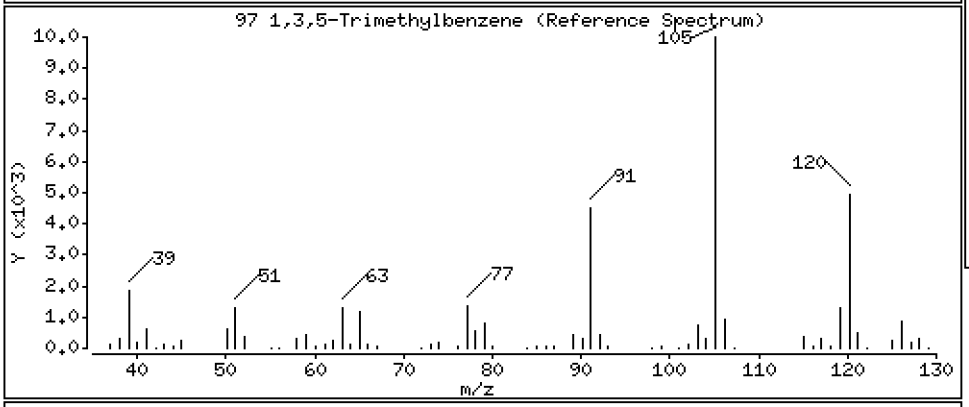
Purge Volume: 5.0 Operator: DD

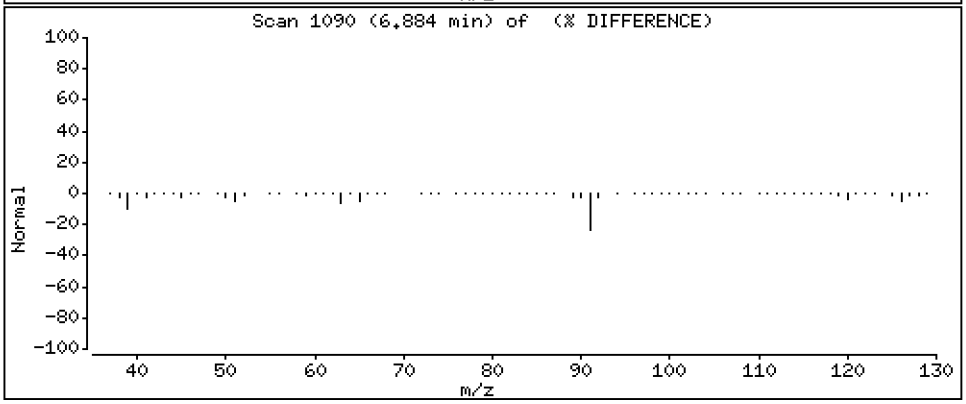
Column phase: DB-VRX Column diameter: 0.25

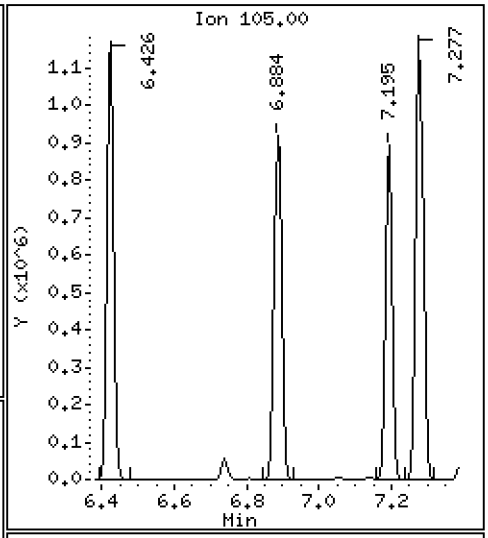
97 1,3,5-Trimethylbenzene Concentration: 51.6096 ug/L

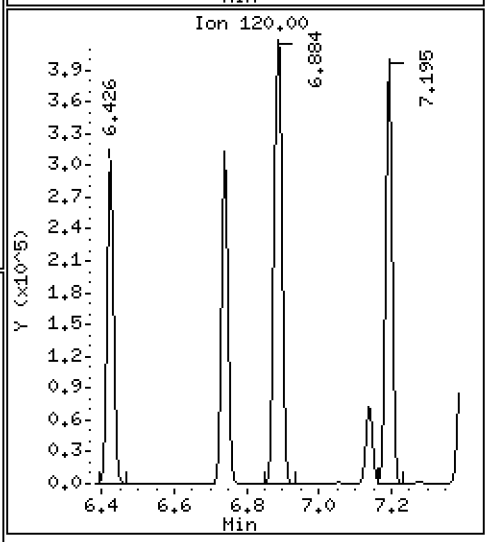












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 100

Date : 26-OCT-2016 09:18

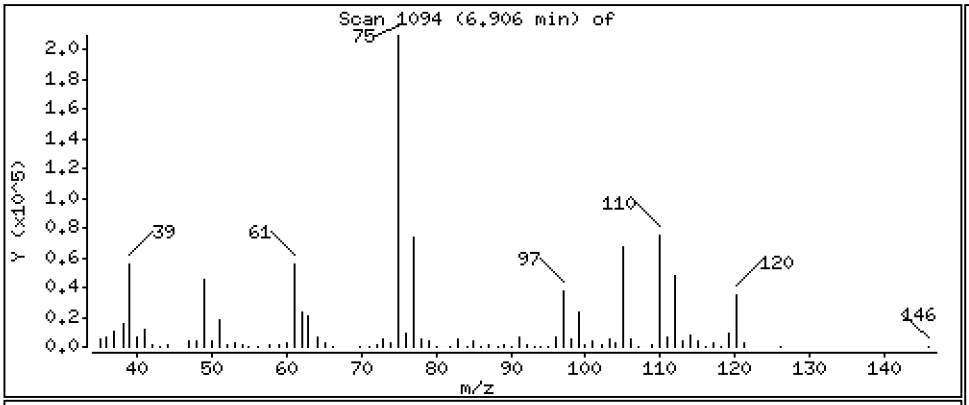
Client ID: Instrument: ms03.i

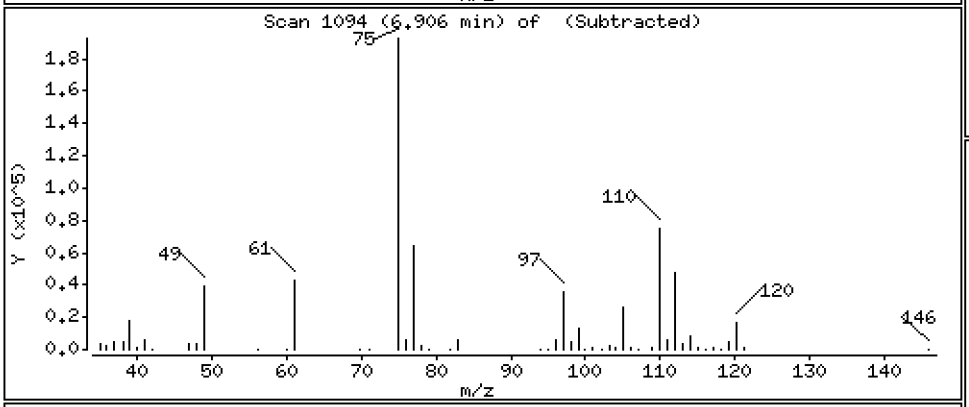
Sample Info: 1800;;1;2;4;;;

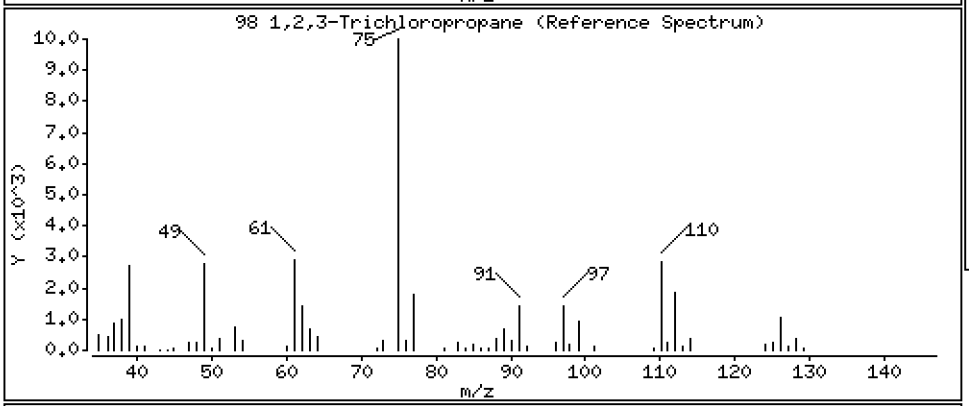
Purge Volume: 5.0 Operator: DD

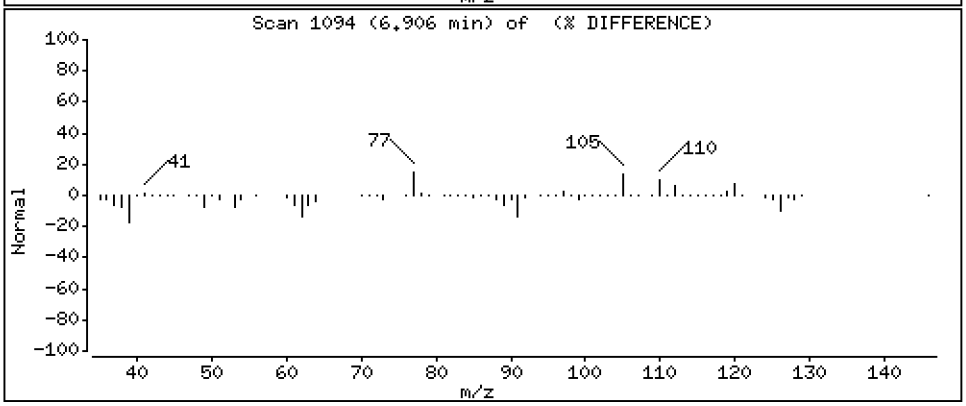
Column phase: DB-VRX Column diameter: 0.25

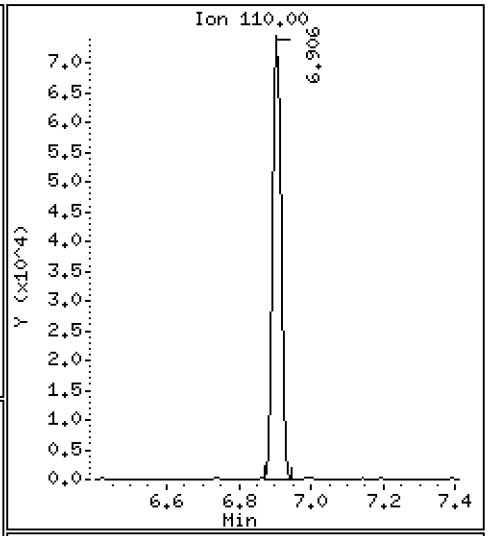
98 1,2,3-Trichloropropane Concentration: 45.8939 ug/L

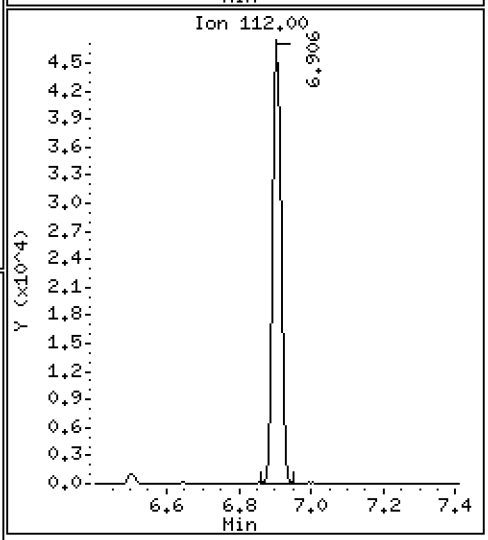












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 101

Date : 26-OCT-2016 09:18

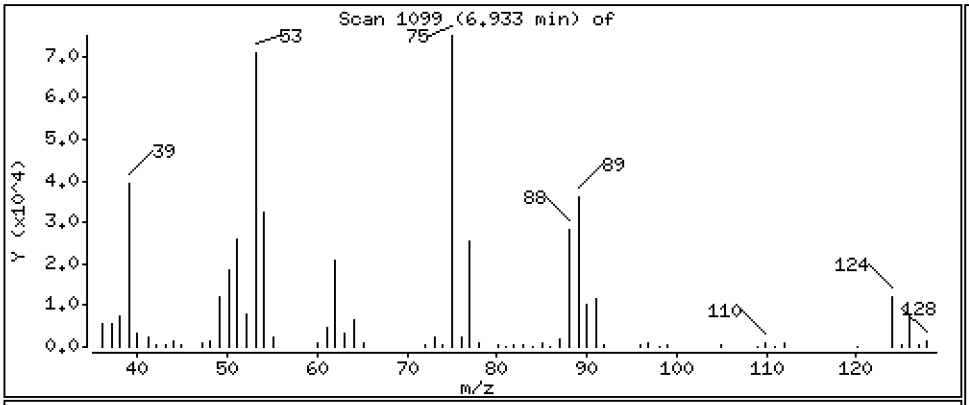
Client ID: Instrument: ms03.i

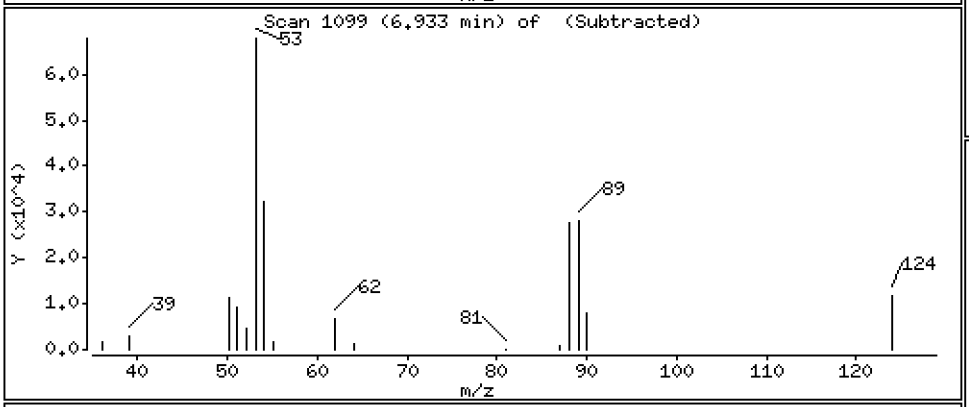
Sample Info: 1800;;1;2;4;;;

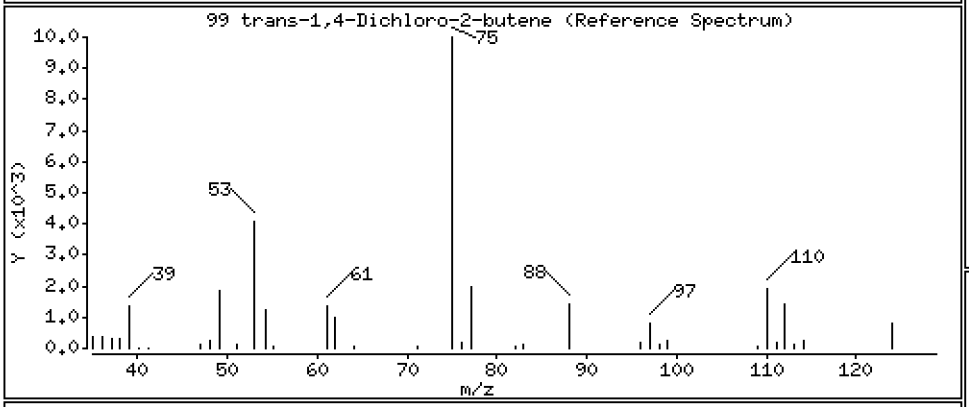
Purge Volume: 5.0 Operator: DD

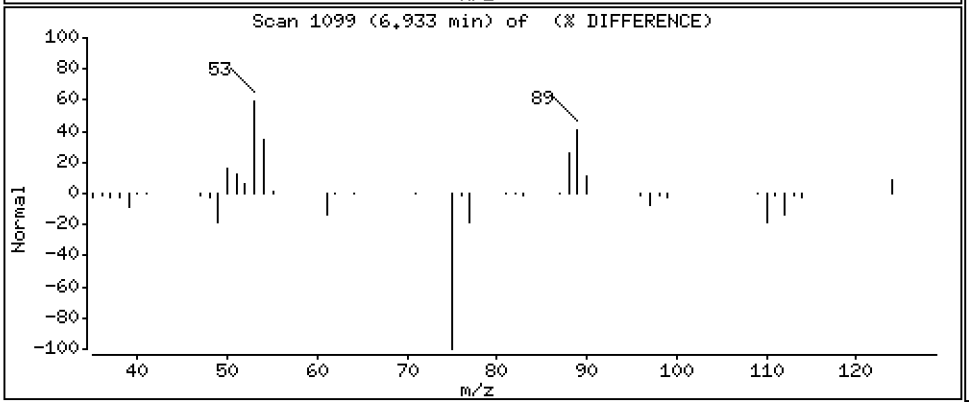
Column phase: DB-VRX Column diameter: 0.25

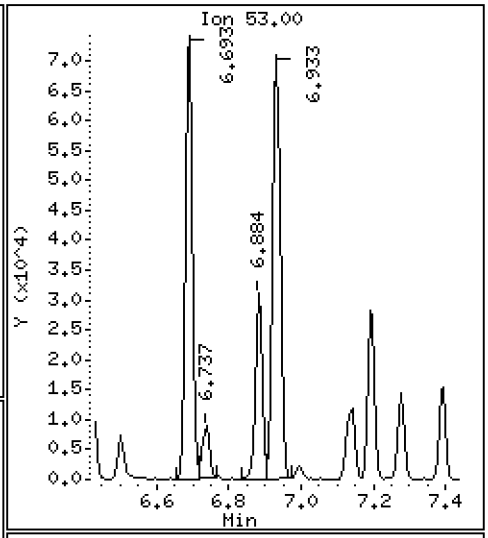
99 trans-1,4-Dichloro-2-butene Concentration: 50.0122 ug/L

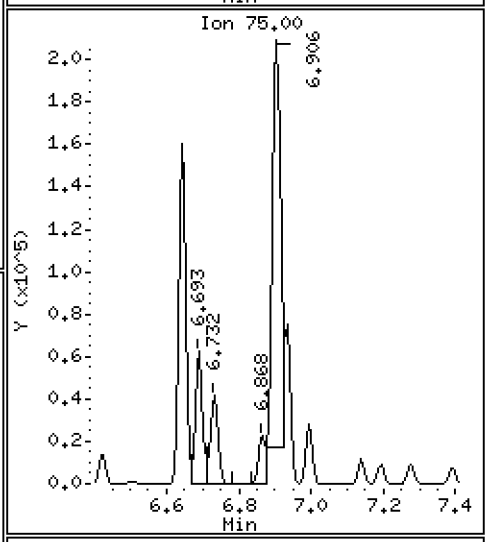


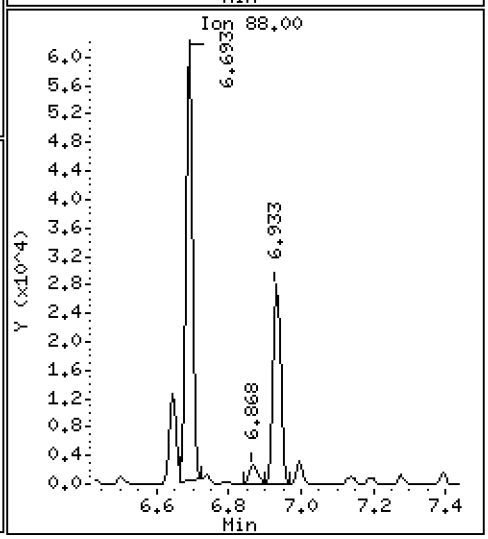












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 102

Date : 26-OCT-2016 09:18

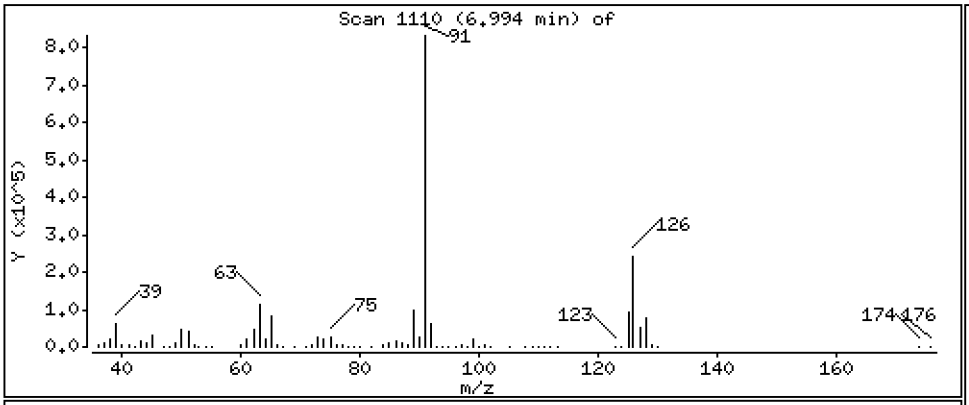
Client ID: Instrument: ms03.i

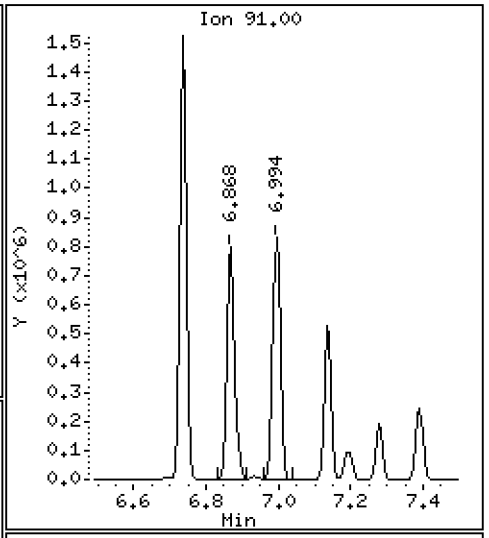
Sample Info: 1800;;1;2;4;;;

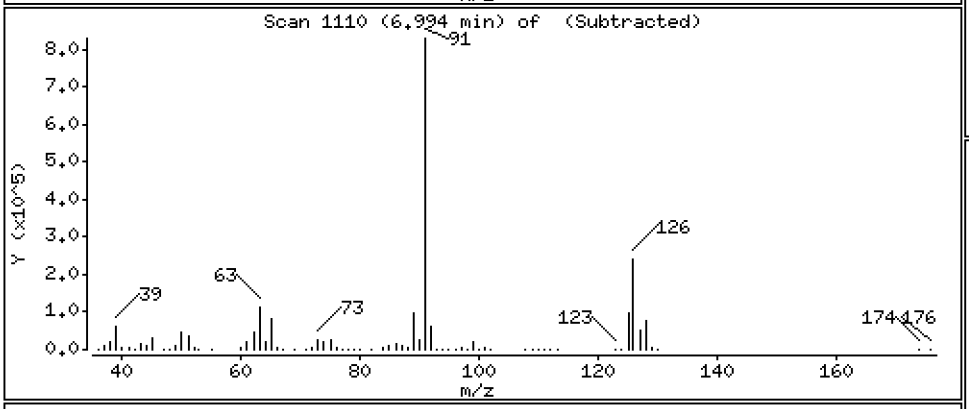
Purge Volume: 5.0 Operator: DD

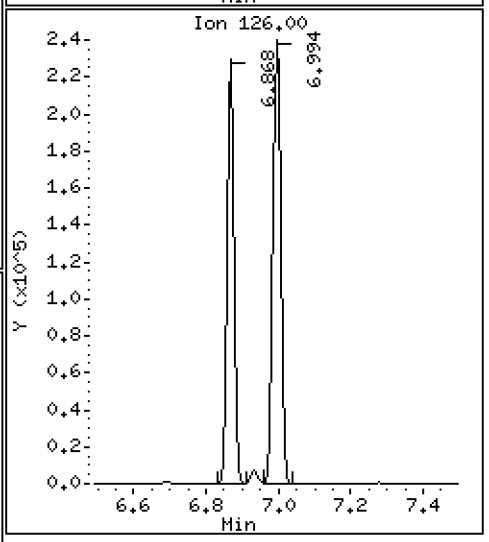
Column phase: DB-VRX Column diameter: 0.25

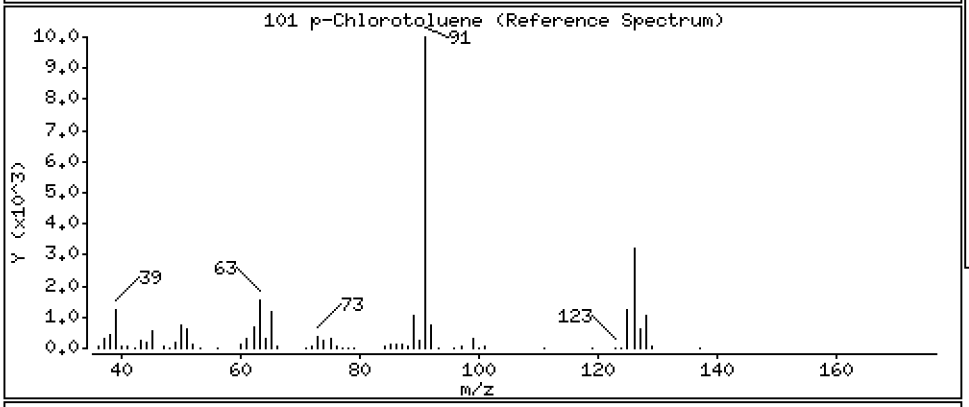
101 p-Chlorotoluene Concentration: 48.3553 ug/L

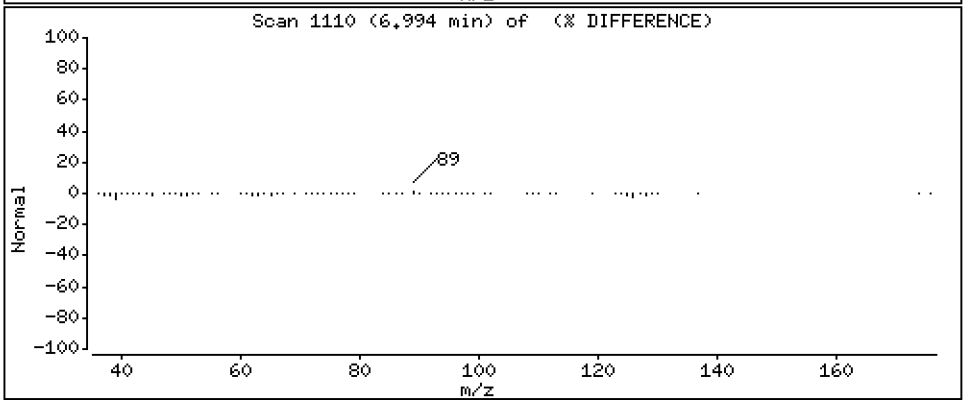












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 103

Date : 26-OCT-2016 09:18

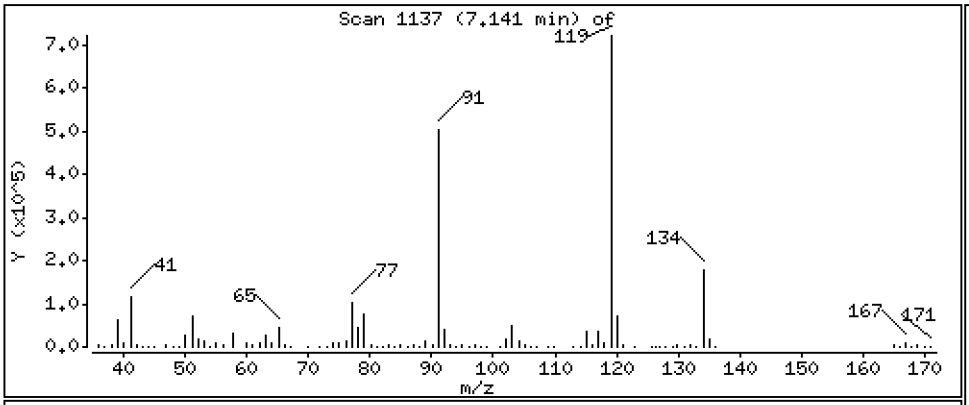
Client ID: Instrument: ms03.i

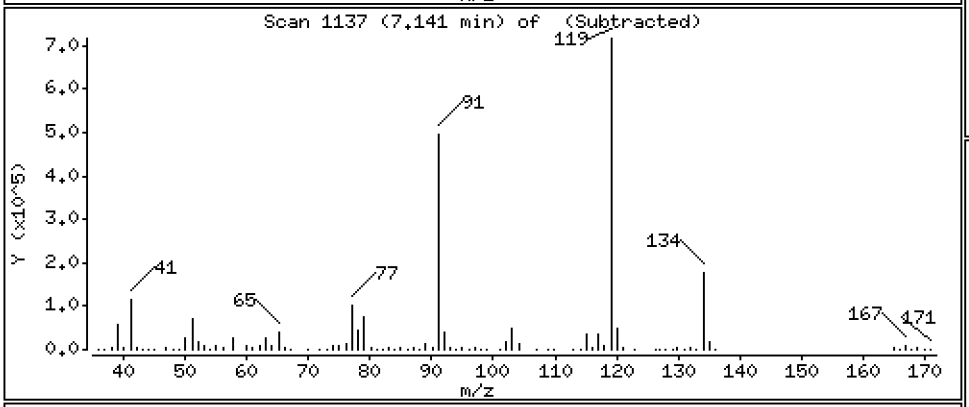
Sample Info: 1800;;1;2;4;;;

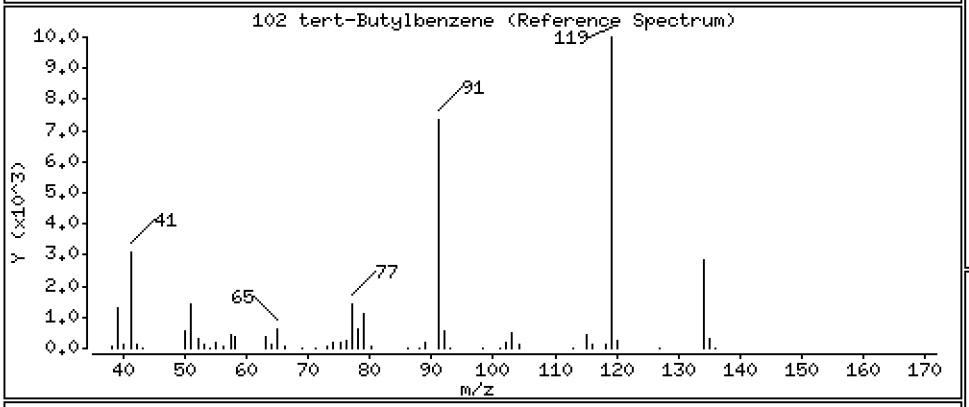
Purge Volume: 5.0 Operator: DD

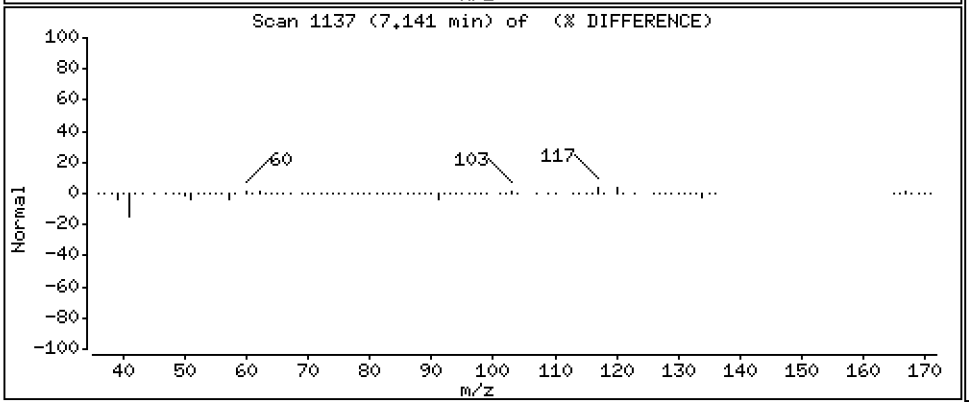
Column phase: DB-VRX Column diameter: 0.25

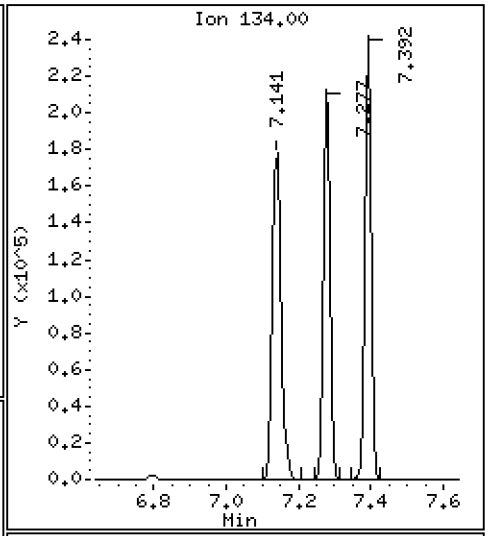
102 tert-Butylbenzene Concentration: 50.0940 ug/L

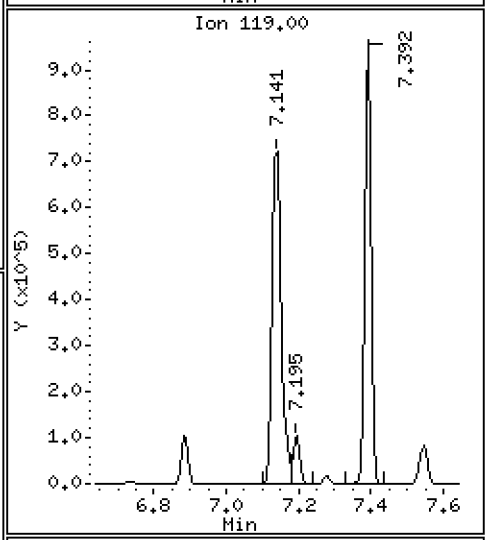


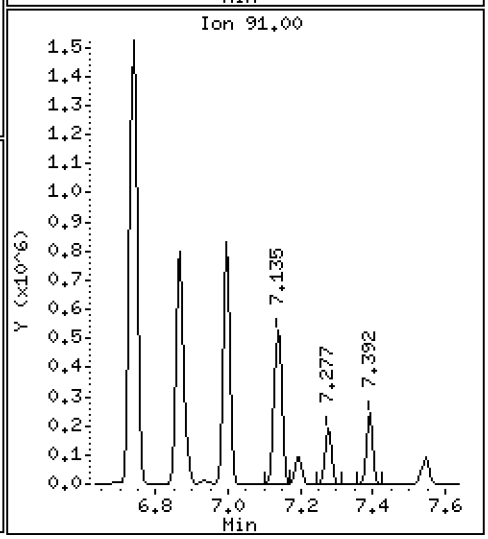












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 104

Date : 26-OCT-2016 09:18

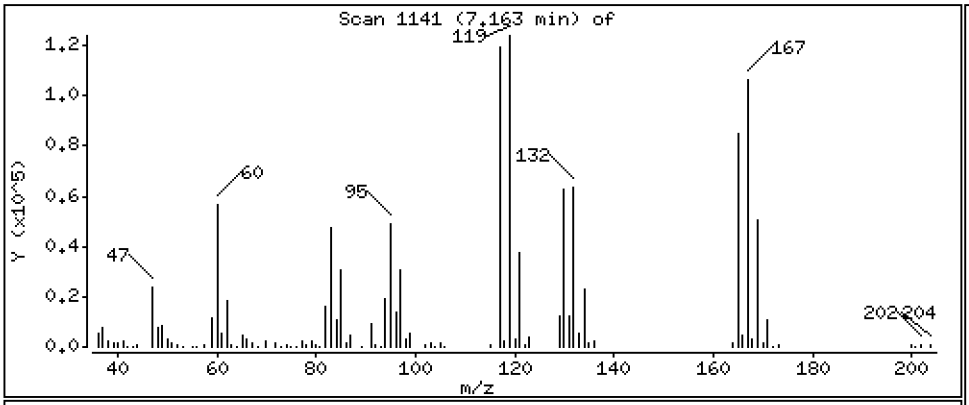
Client ID: Instrument: ms03.i

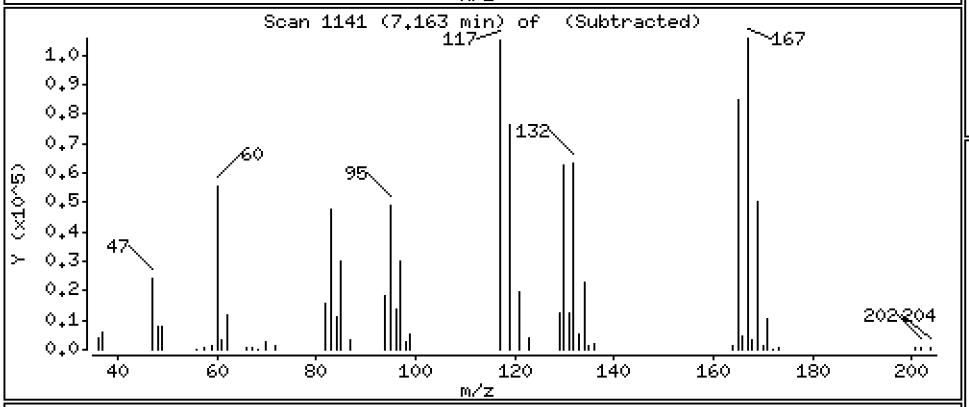
Sample Info: 1800;;1;2;4;;;

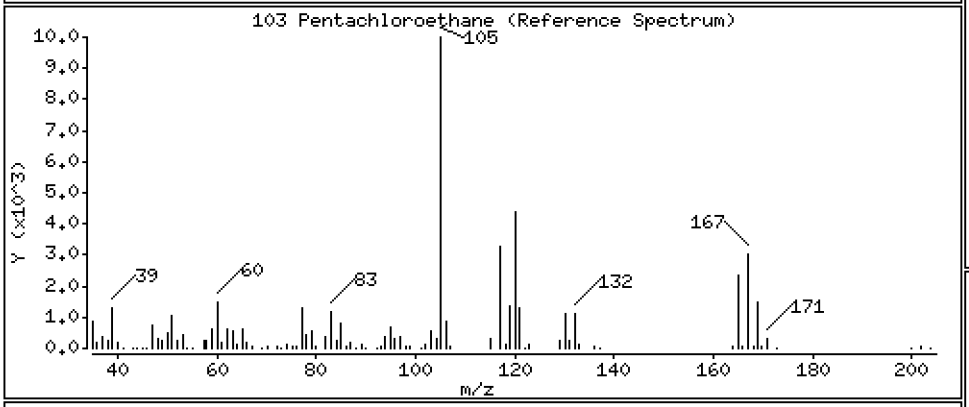
Purge Volume: 5.0 Operator: DD

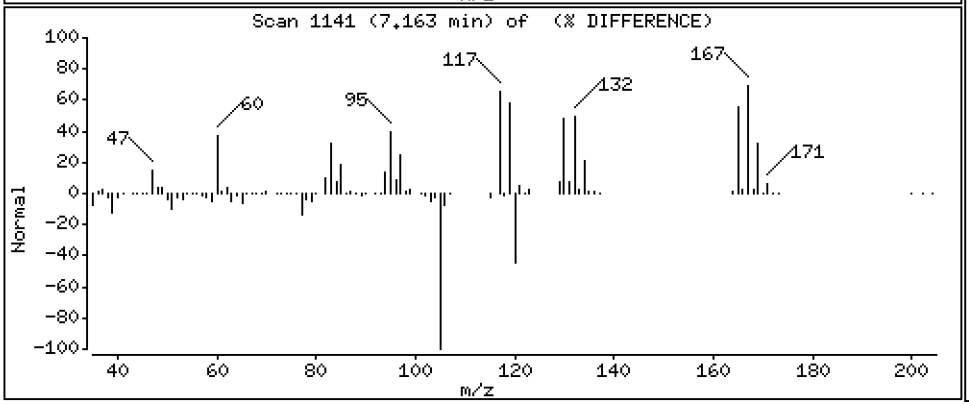
Column phase: DB-VRX Column diameter: 0.25

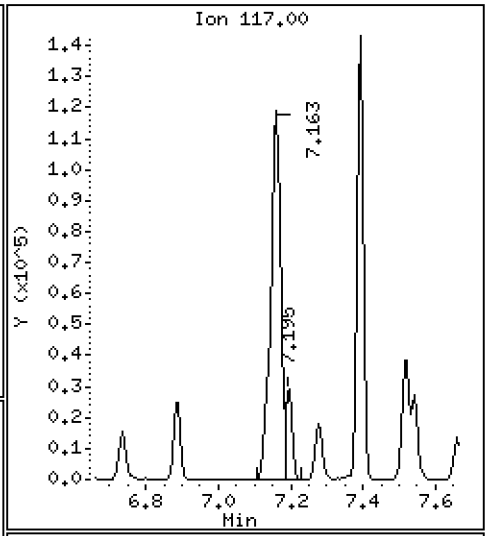
103 Pentachloroethane Concentration: 47.5795 ug/L

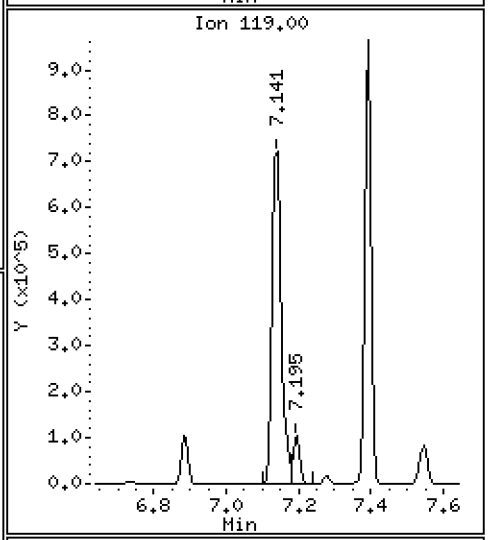


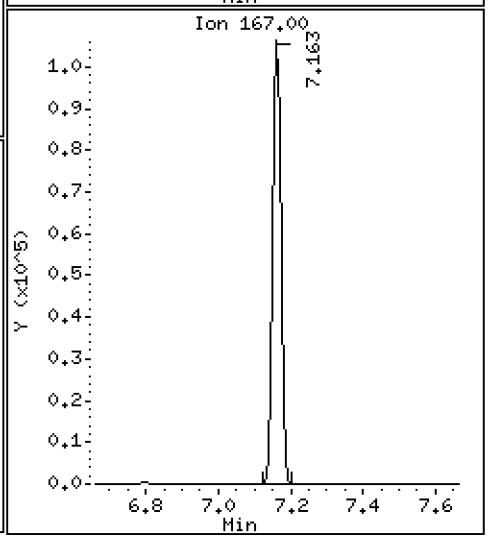












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 105

Date : 26-OCT-2016 09:18

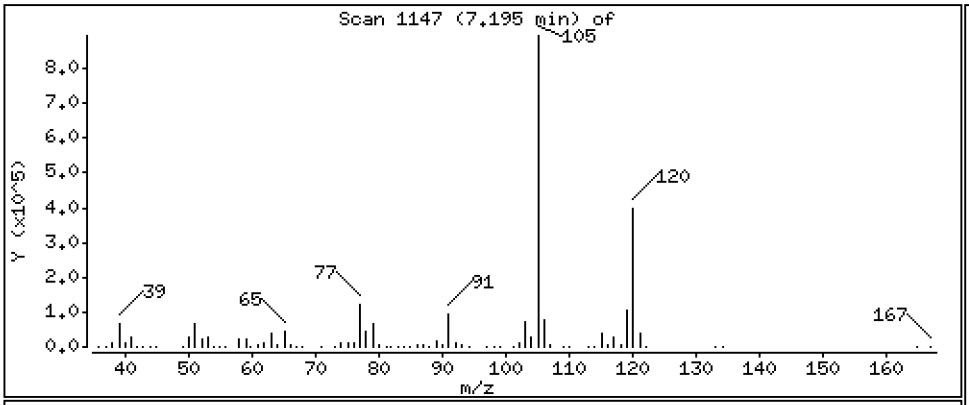
Client ID: Instrument: ms03.i

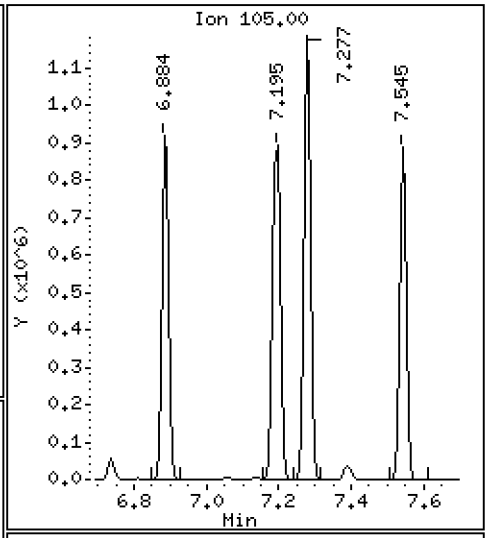
Sample Info: 1800;;1;2;4;;;

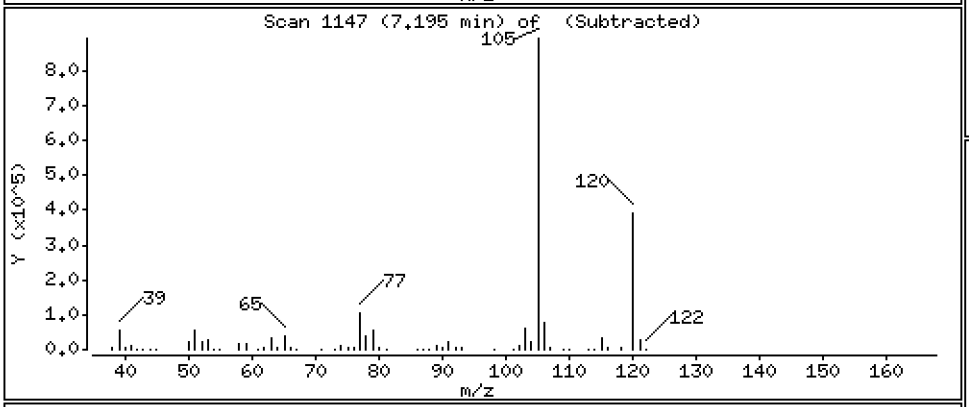
Purge Volume: 5.0 Operator: DD

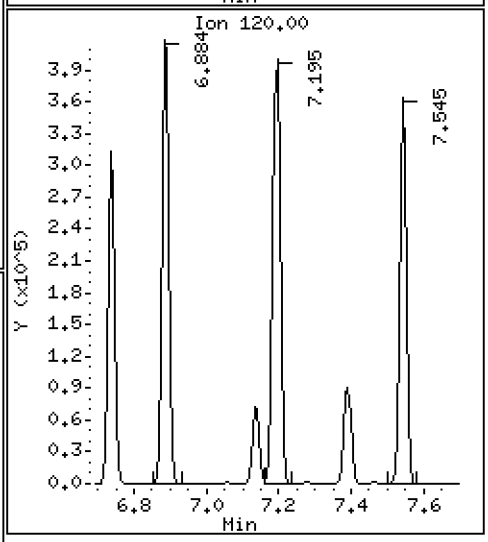
Column phase: DB-VRX Column diameter: 0.25

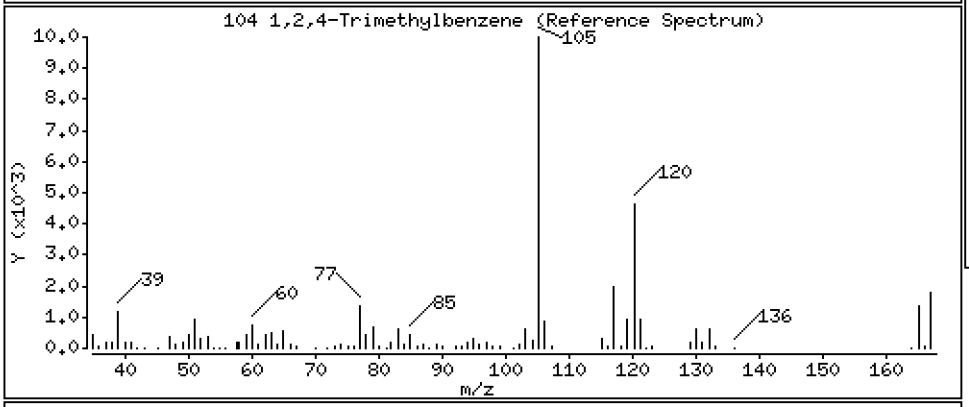
104 1,2,4-Trimethylbenzene Concentration: 52.0517 ug/L

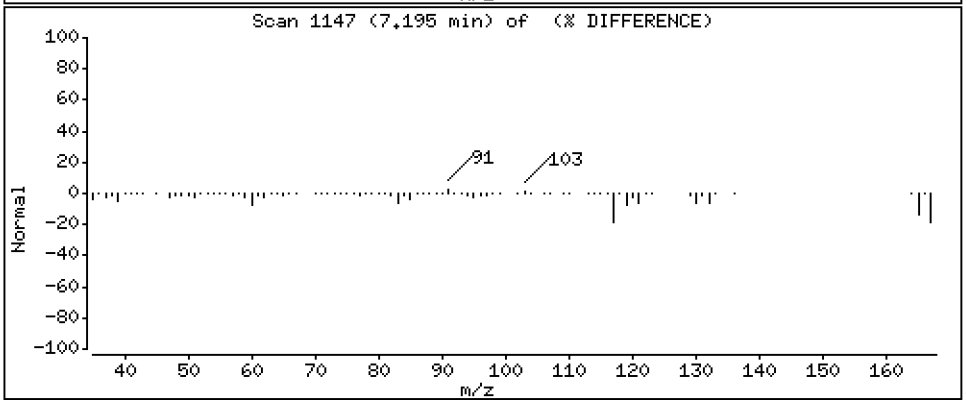












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 106

Date : 26-OCT-2016 09:18

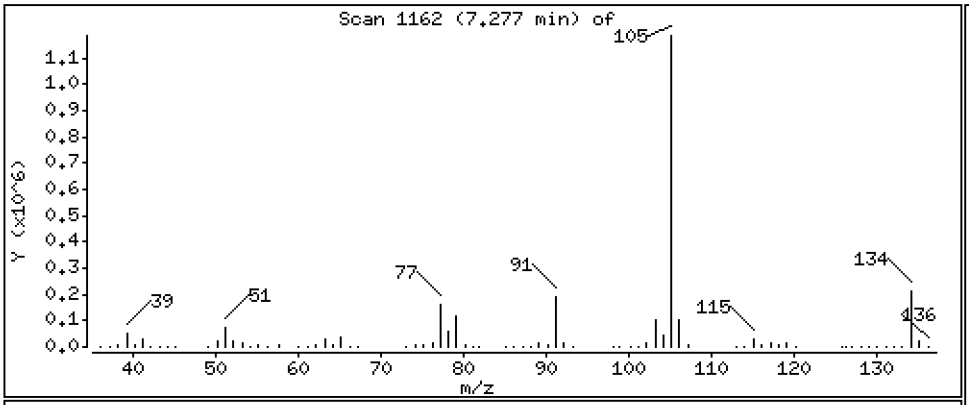
Client ID: Instrument: ms03.i

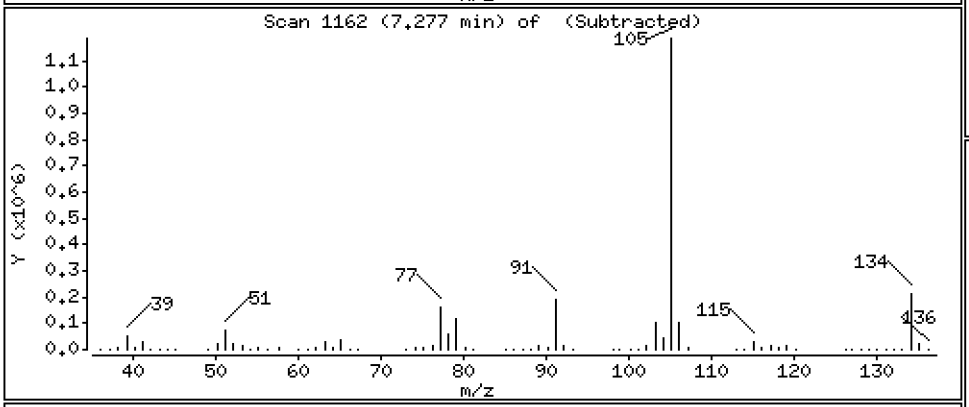
Sample Info: 1800;;1;2;4;;;

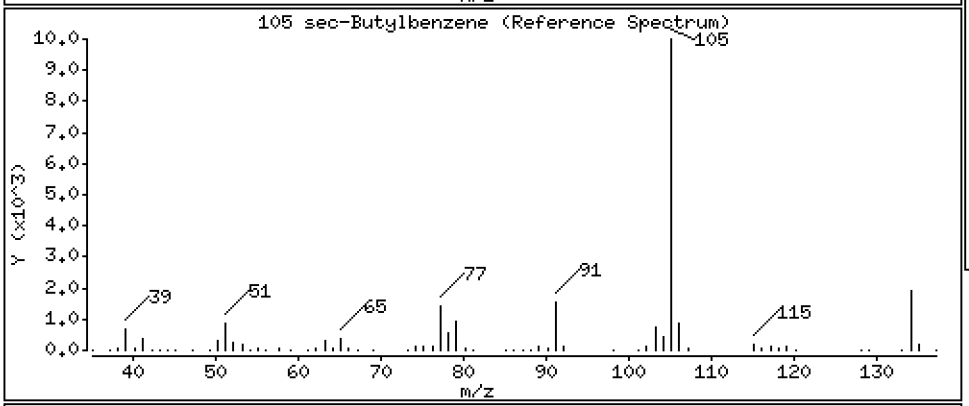
Purge Volume: 5.0 Operator: DD

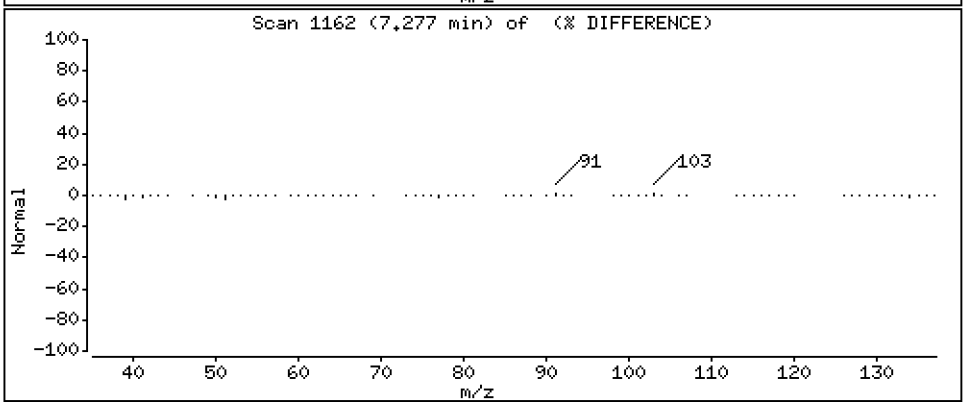
Column phase: DB-VRX Column diameter: 0.25

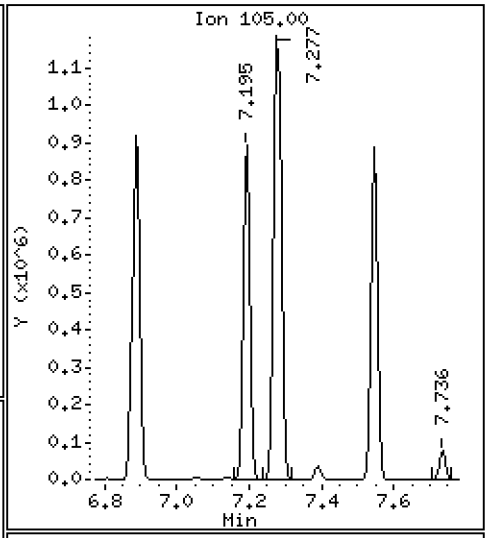
105 sec-Butylbenzene Concentration: 53.0857 ug/L

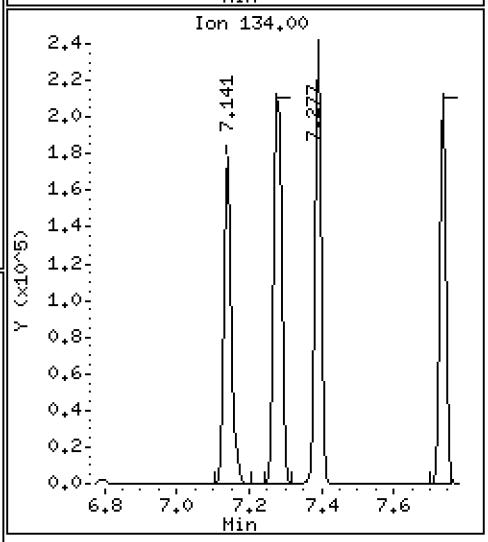












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 107

Date : 26-OCT-2016 09:18

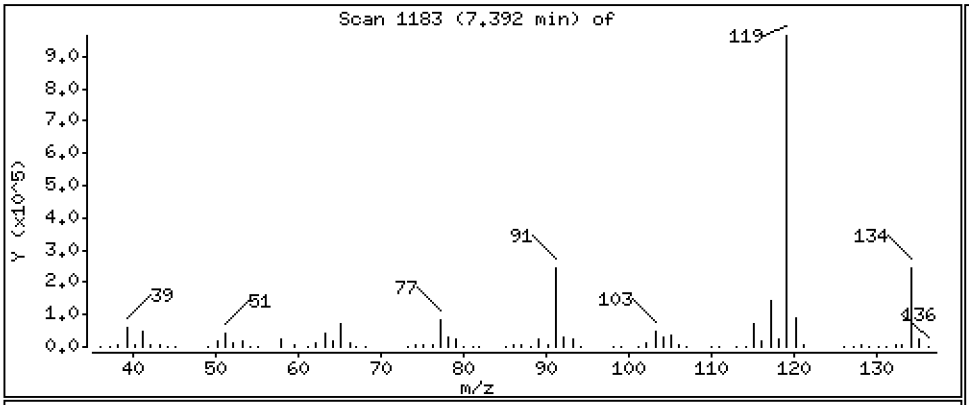
Client ID: Instrument: ms03.i

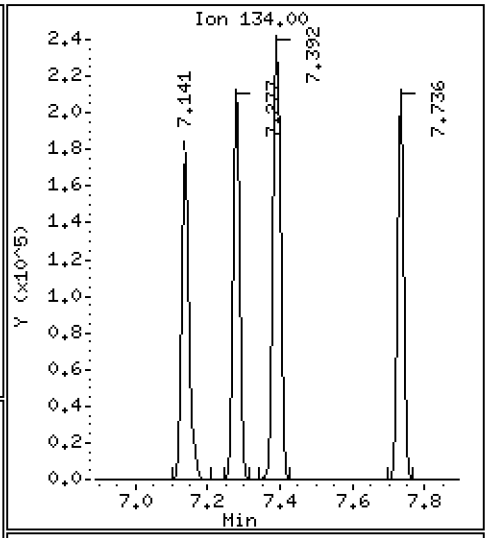
Sample Info: 1800;;1;2;4;;;

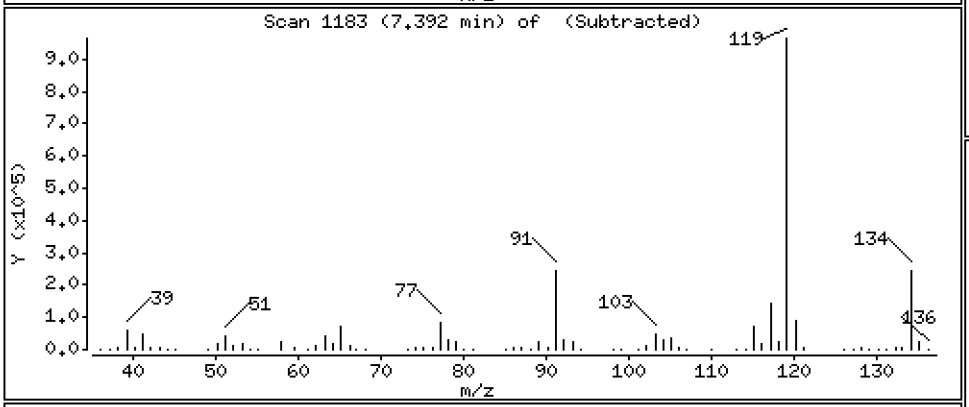
Purge Volume: 5.0 Operator: DD

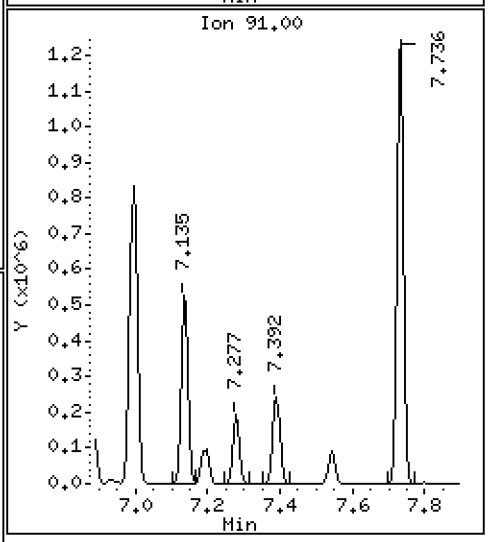
Column phase: DB-VRX Column diameter: 0.25

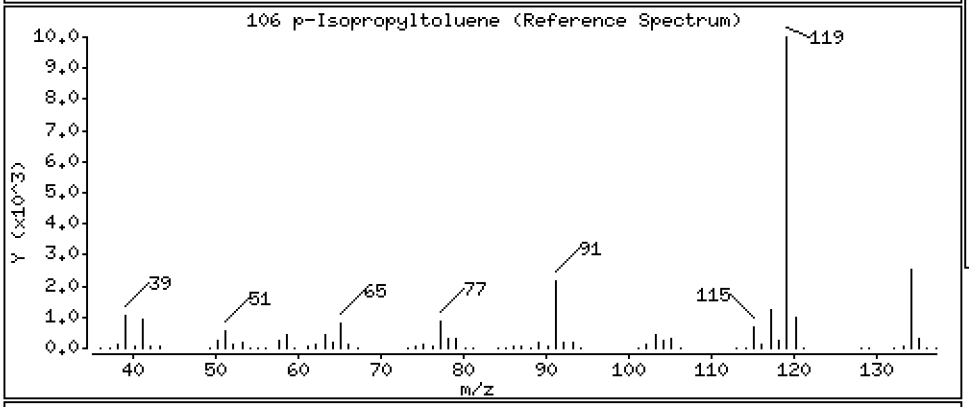
106 p-Isopropyltoluene Concentration: 53.8299 ug/L

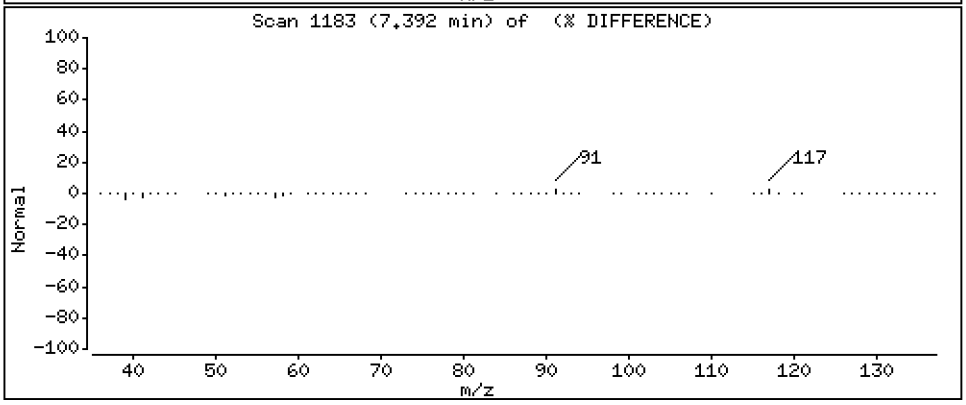












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 108

Date : 26-OCT-2016 09:18

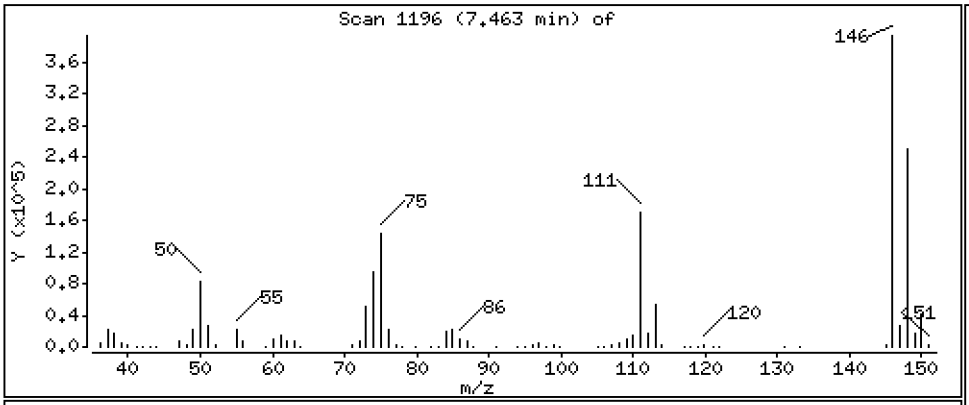
Client ID: Instrument: ms03.i

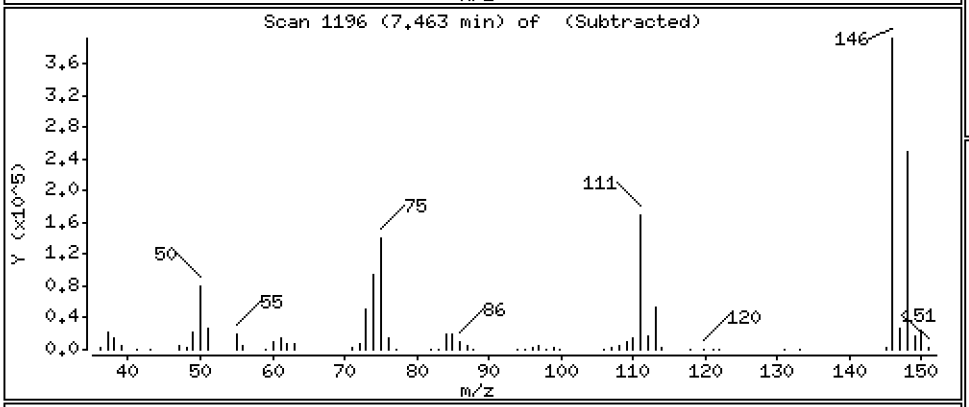
Sample Info: 1800;;1;2;4;;;

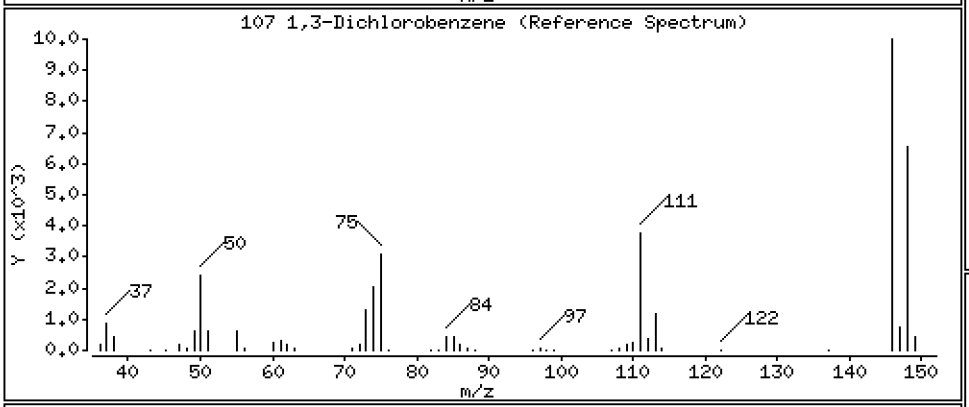
Purge Volume: 5.0 Operator: DD

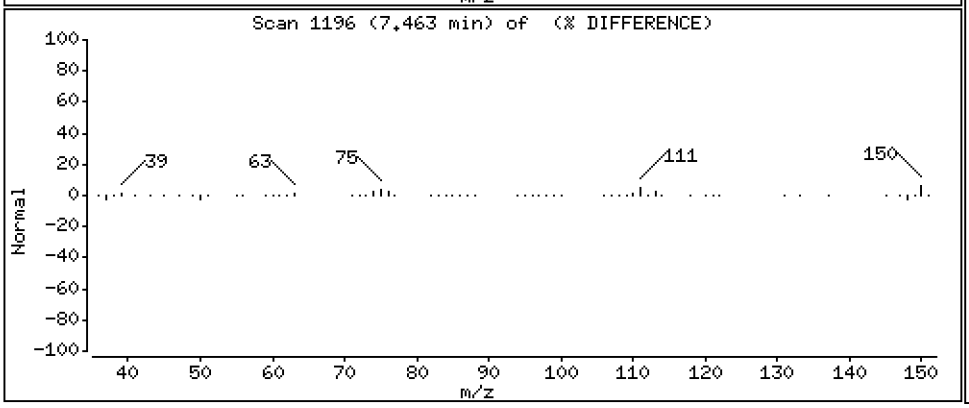
Column phase: DB-VRX Column diameter: 0.25

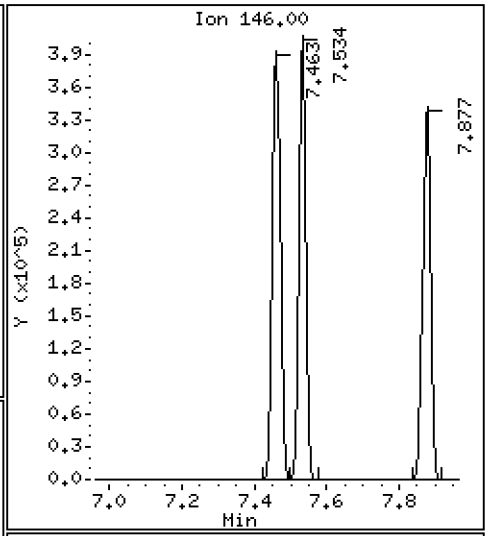
107 1,3-Dichlorobenzene Concentration: 49.4025 ug/L

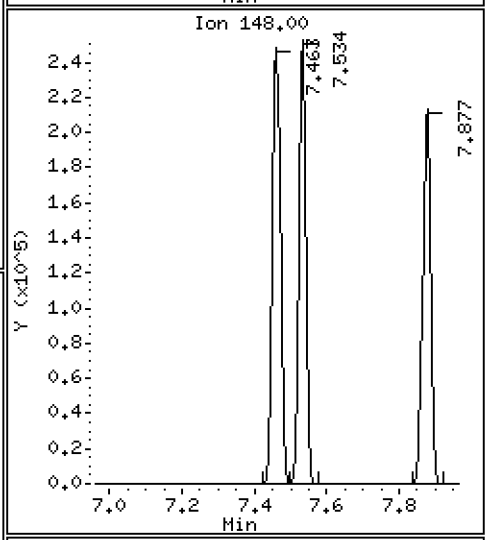


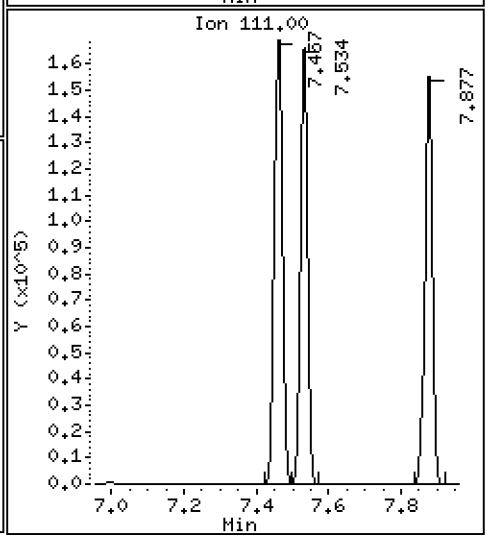












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 109

Date : 26-OCT-2016 09:18

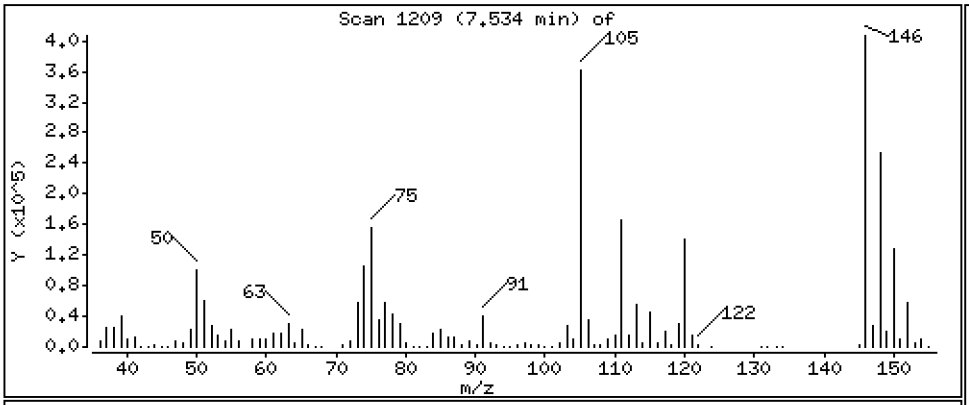
Client ID: Instrument: ms03.i

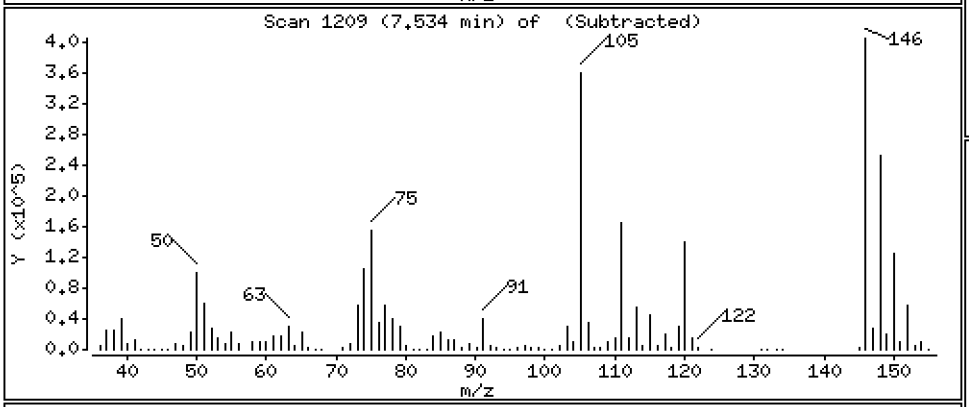
Sample Info: 1800;;1;2;4;;;

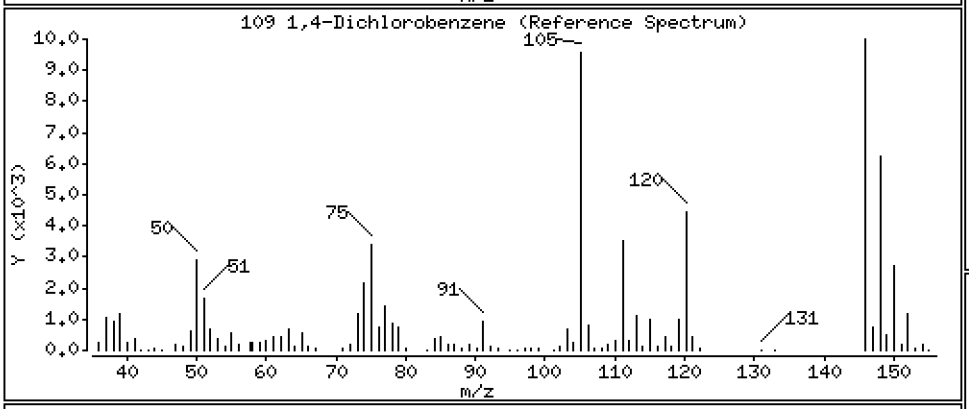
Purge Volume: 5.0 Operator: DD

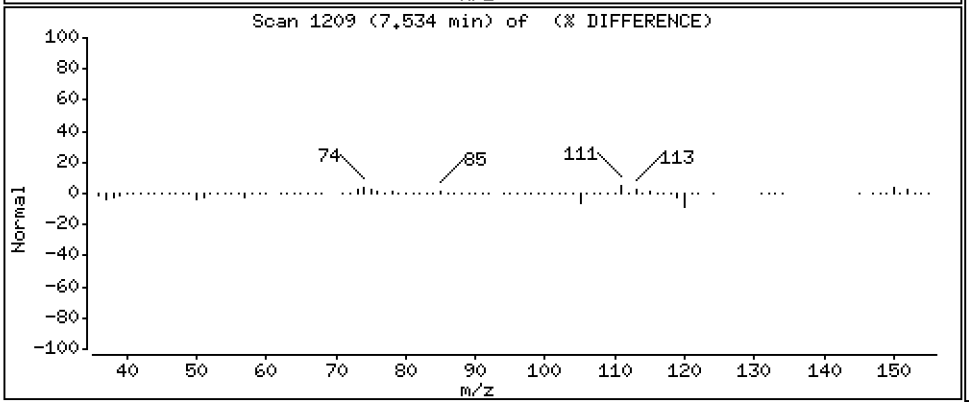
Column phase: DB-VRX Column diameter: 0.25

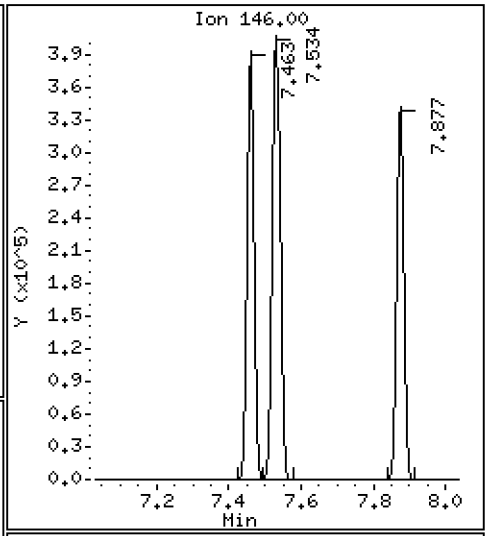
109 1,4-Dichlorobenzene Concentration: 49.7195 ug/L

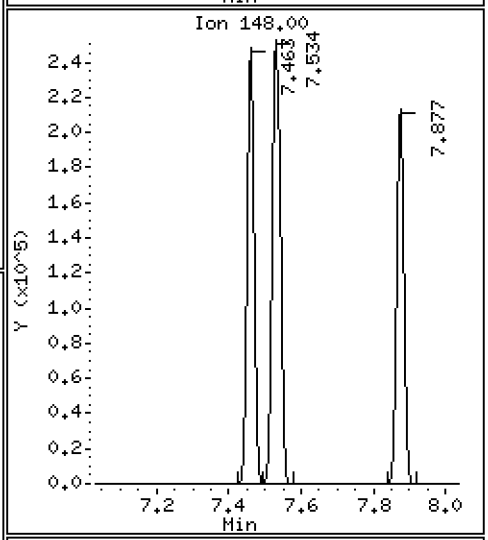


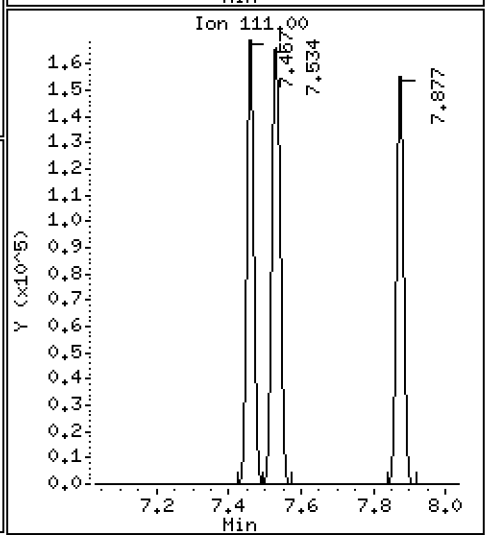












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 110

Date : 26-OCT-2016 09:18

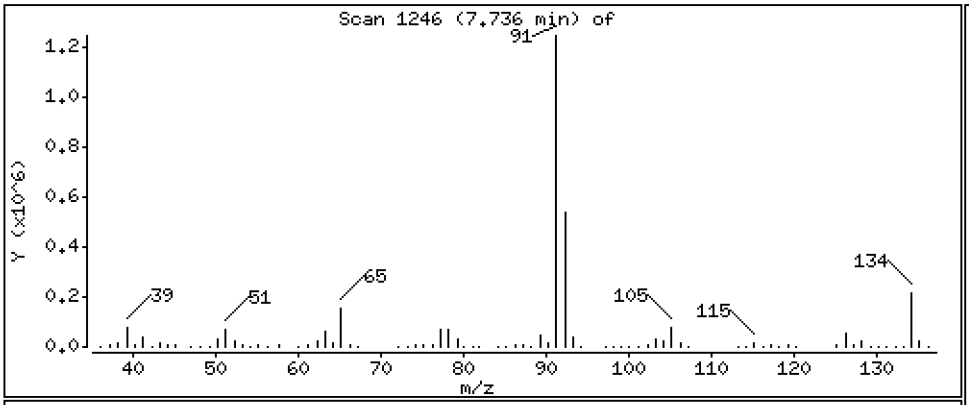
Client ID: Instrument: ms03.i

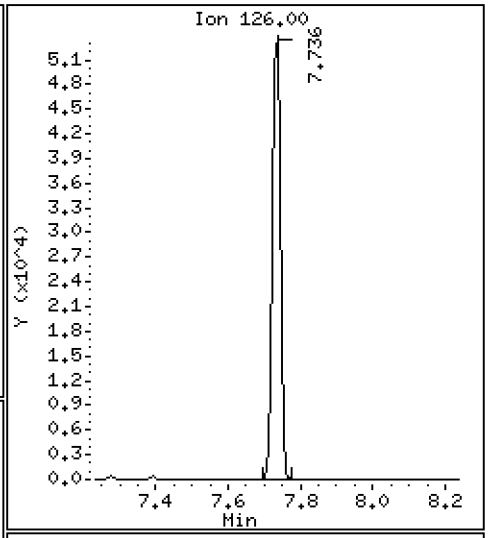
Sample Info: 1800;;1;2;4;;;

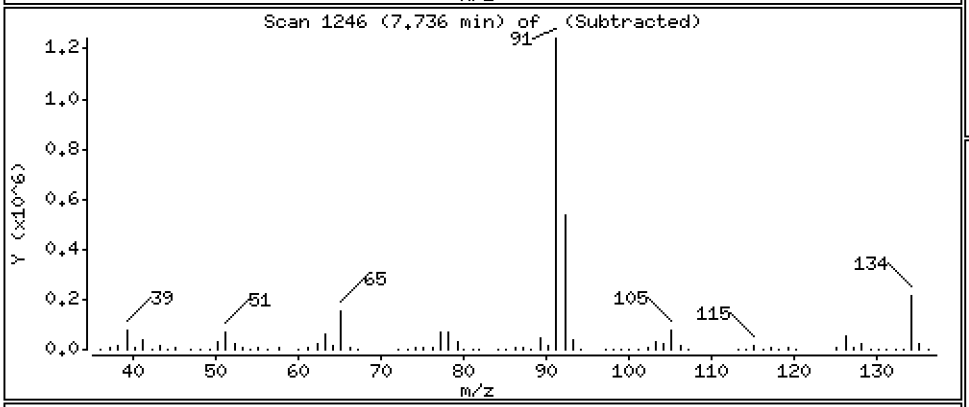
Purge Volume: 5.0 Operator: DD

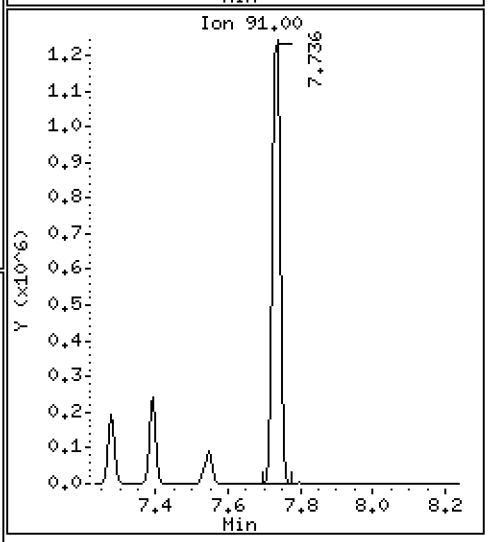
Column phase: DB-VRX Column diameter: 0.25

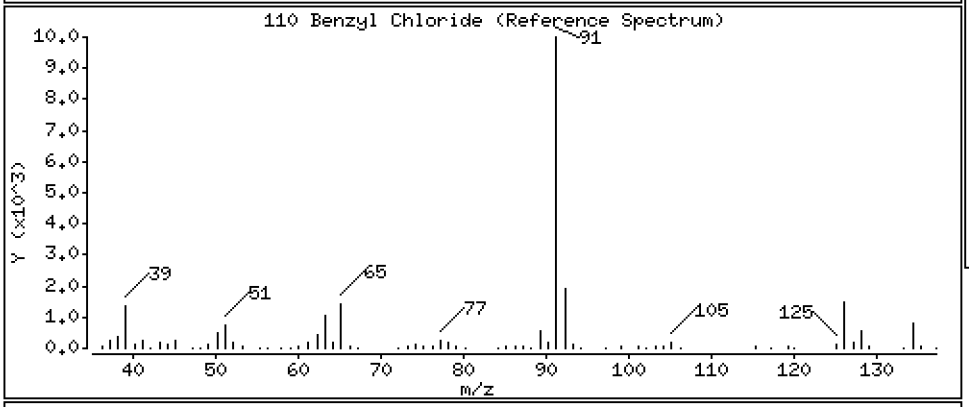
110 Benzyl Chloride Concentration: 47.4207 ug/L

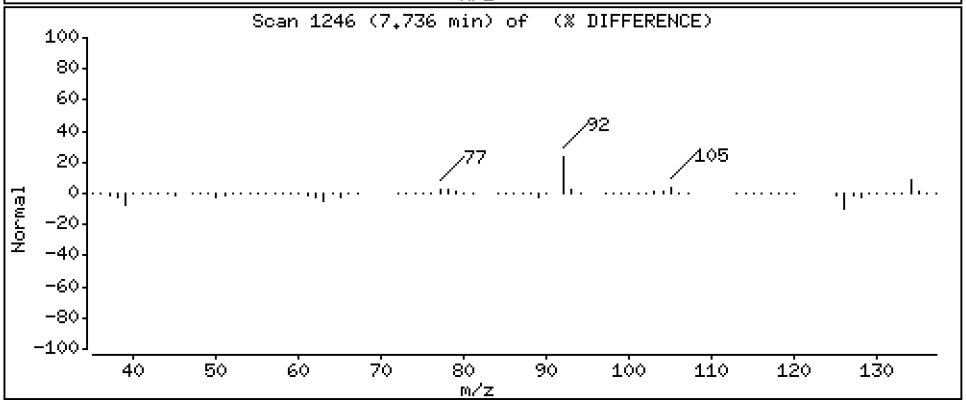












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 111

Date : 26-OCT-2016 09:18

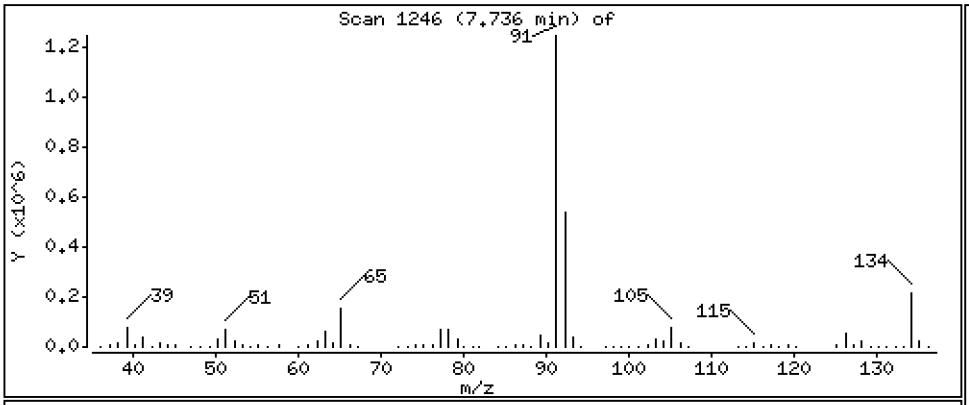
Client ID: Instrument: ms03.i

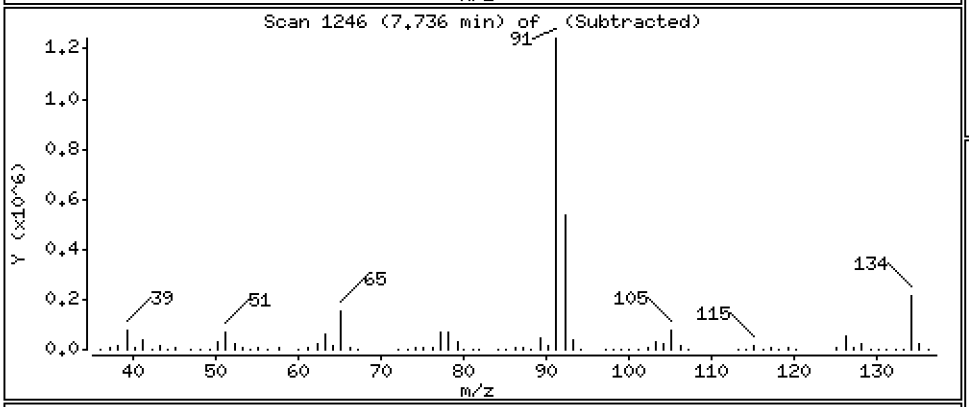
Sample Info: 1800;;1;2;4;;;

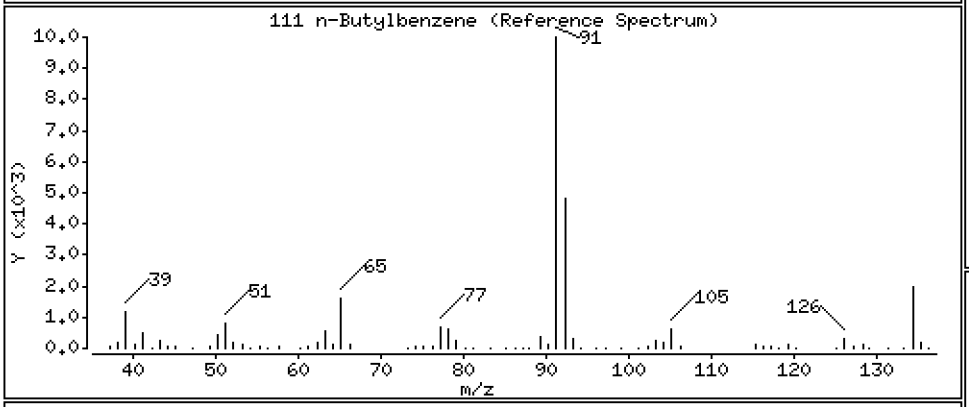
Purge Volume: 5.0 Operator: DD

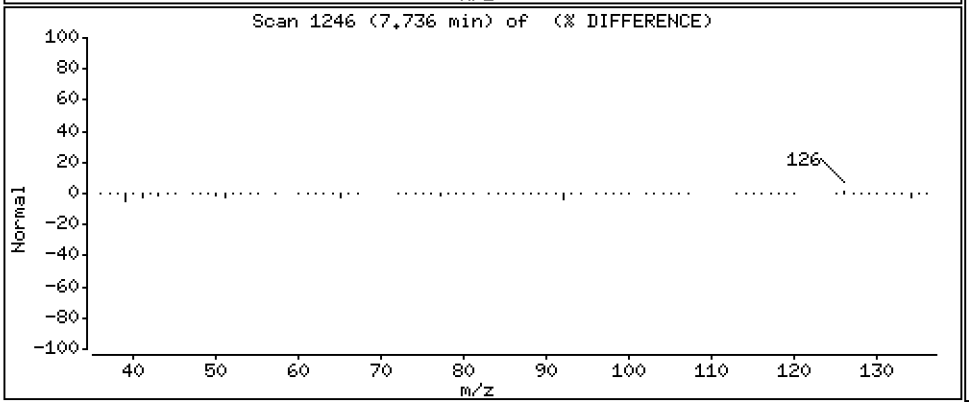
Column phase: DB-VRX Column diameter: 0.25

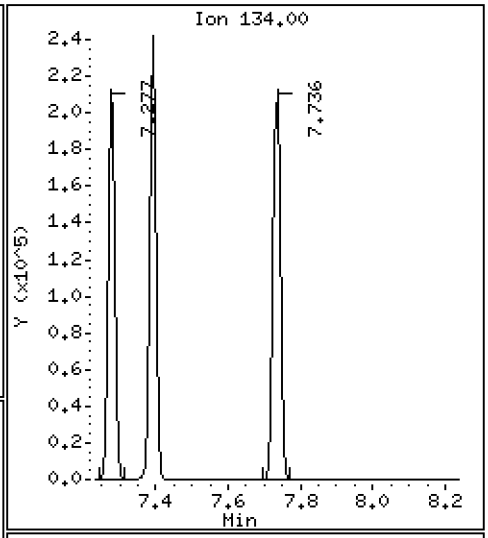
111 n-Butylbenzene Concentration: 53.2426 ug/L

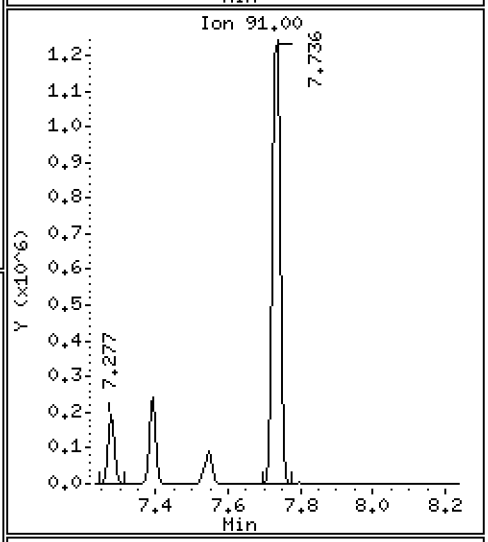


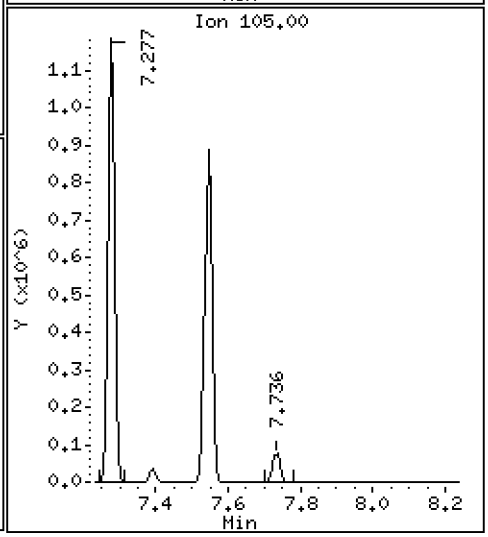












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 112

Date : 26-OCT-2016 09:18

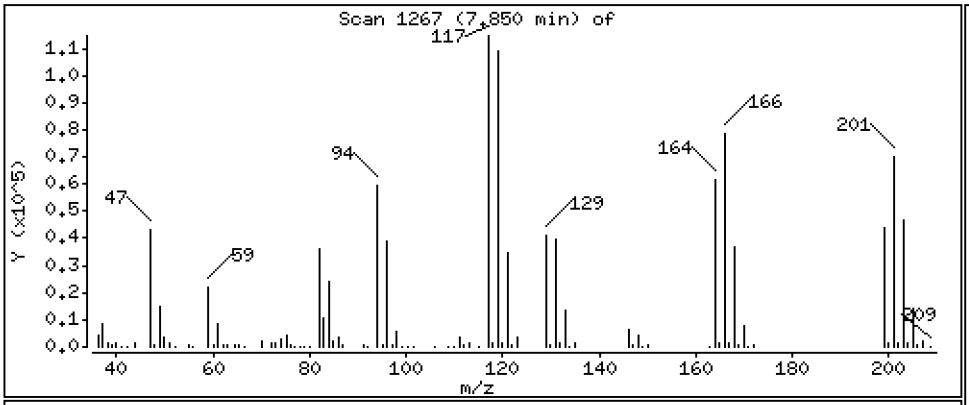
Client ID: Instrument: ms03.i

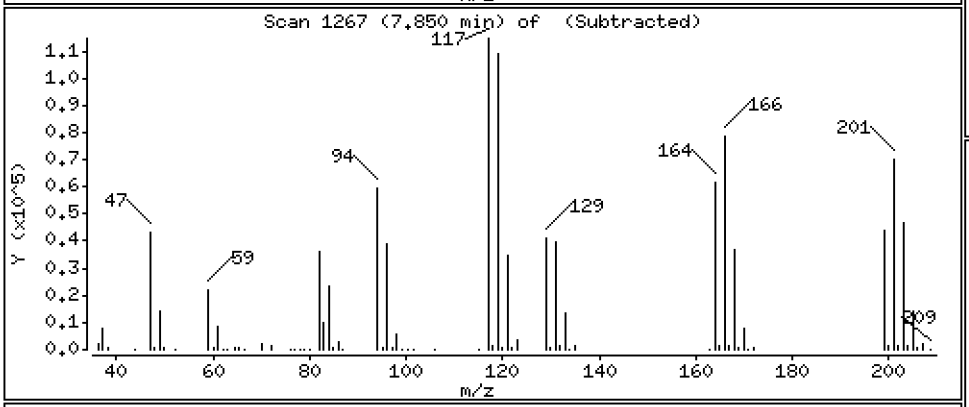
Sample Info: 1800;;1;2;4;;;

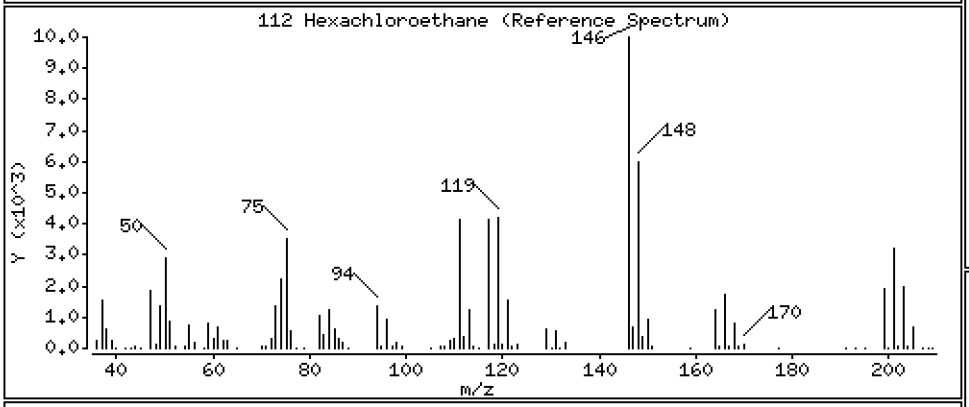
Purge Volume: 5.0 Operator: DD

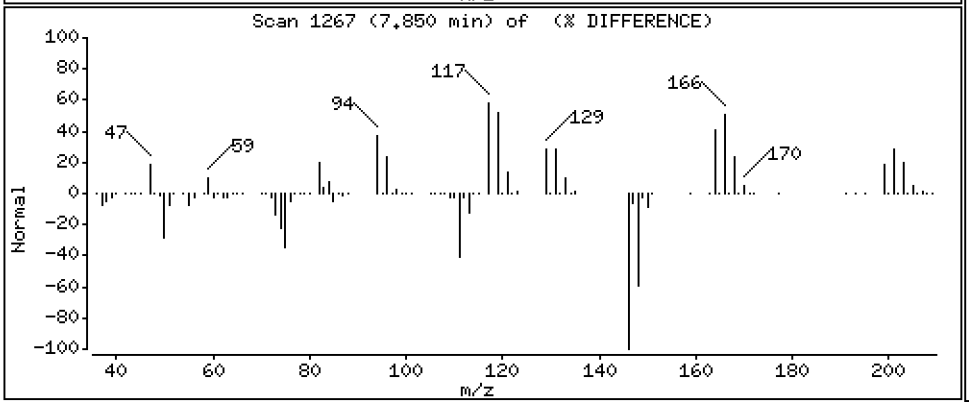
Column phase: DB-VRX Column diameter: 0.25

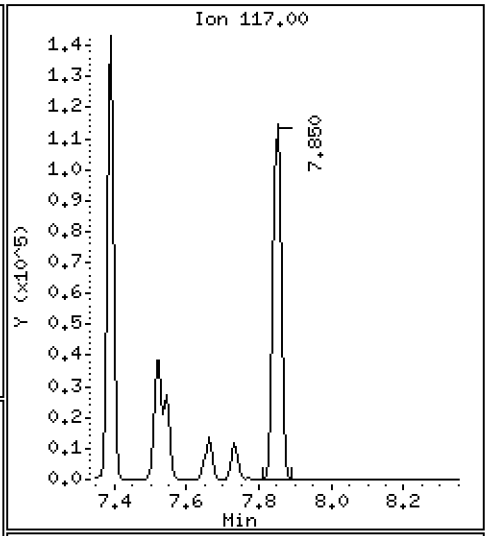
112 Hexachloroethane Concentration: 47.4674 ug/L

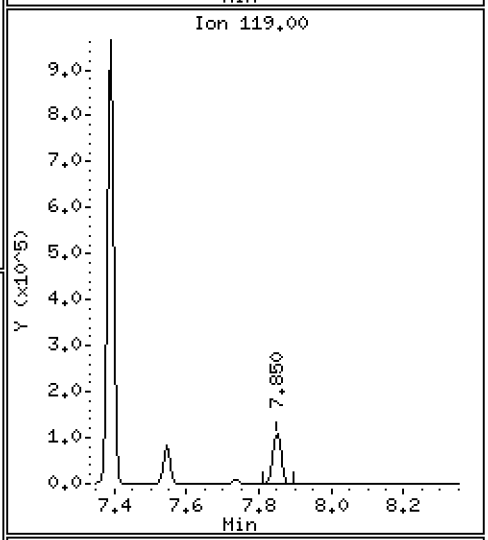


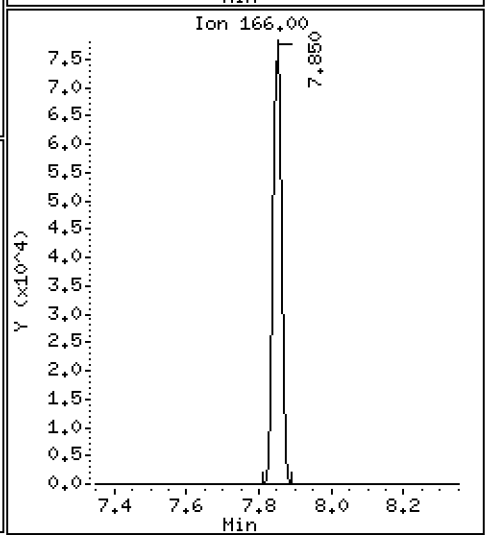












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 113

Date : 26-OCT-2016 09:18

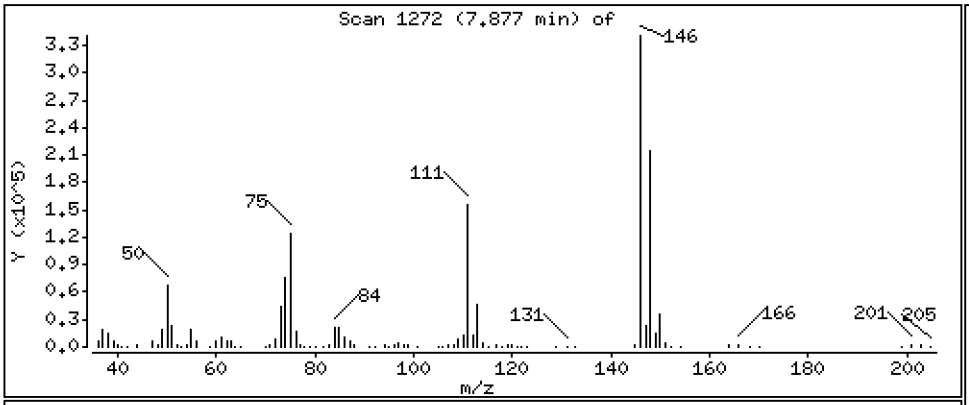
Client ID: Instrument: ms03.i

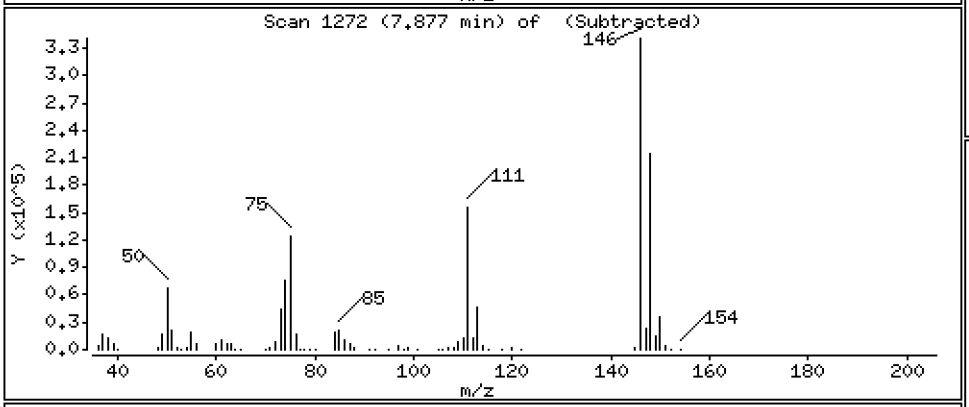
Sample Info: 1800;;1;2;4;;;

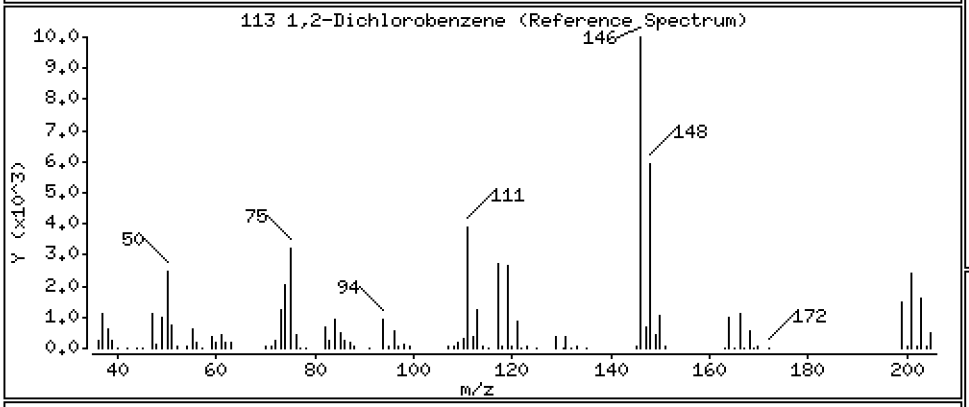
Purge Volume: 5.0 Operator: DD

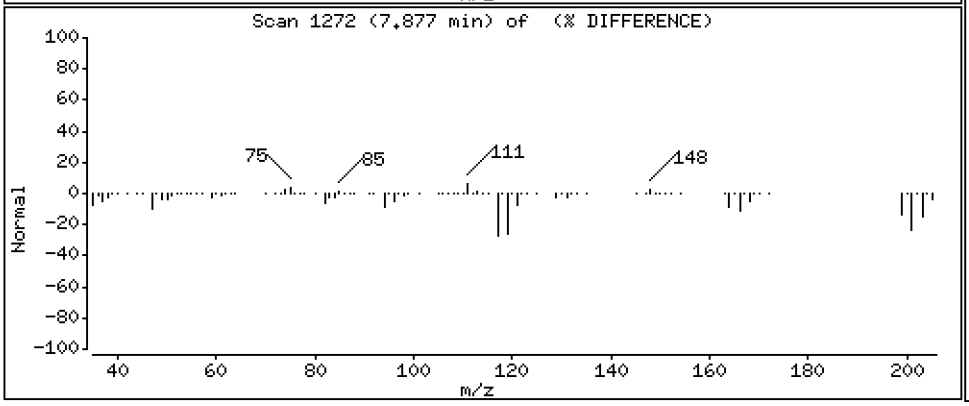
Column phase: DB-VRX Column diameter: 0.25

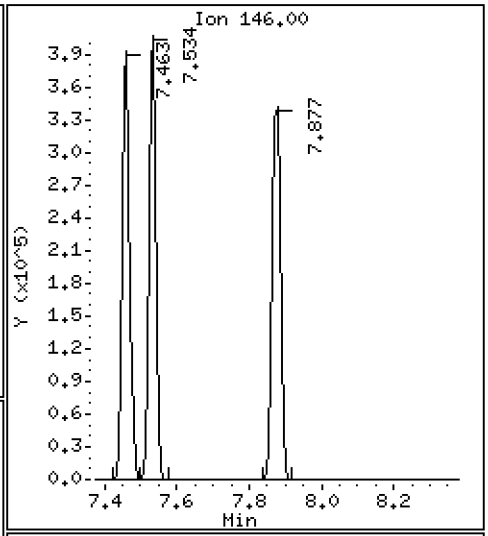
113 1,2-Dichlorobenzene Concentration: 49.5496 ug/L

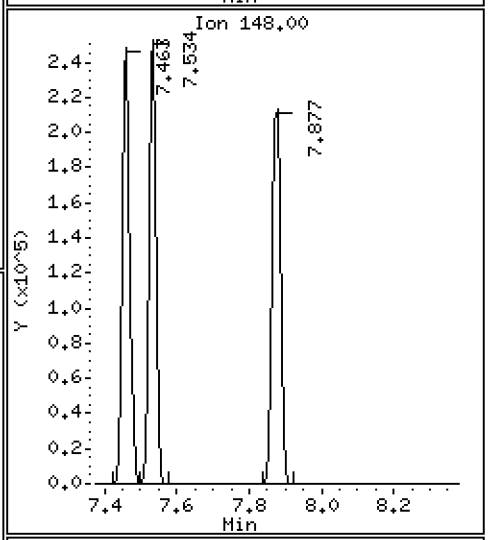


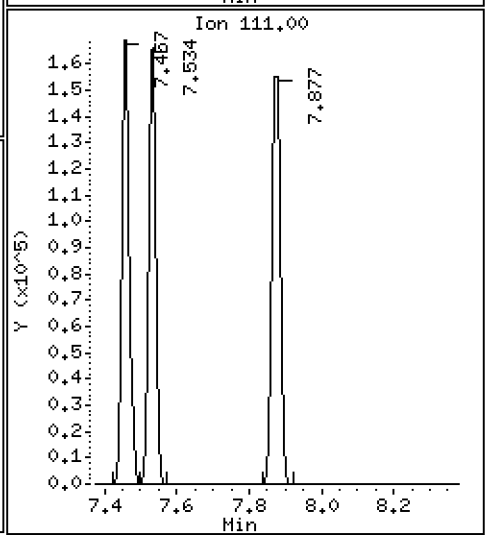












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 114

Date : 26-OCT-2016 09:18

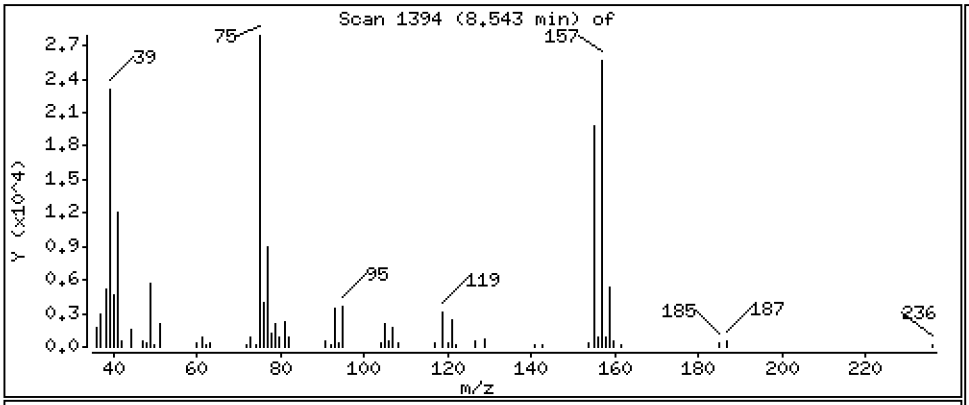
Client ID: Instrument: ms03.i

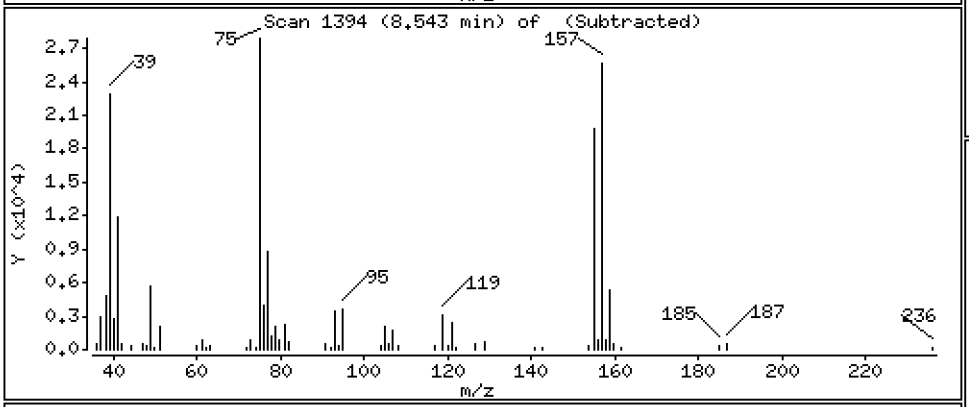
Sample Info: 1800;;1;2;4;;;

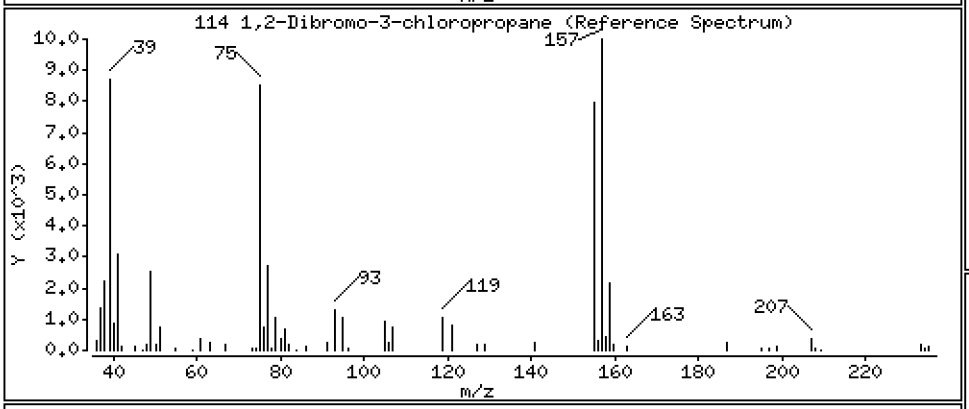
Purge Volume: 5.0 Operator: DD

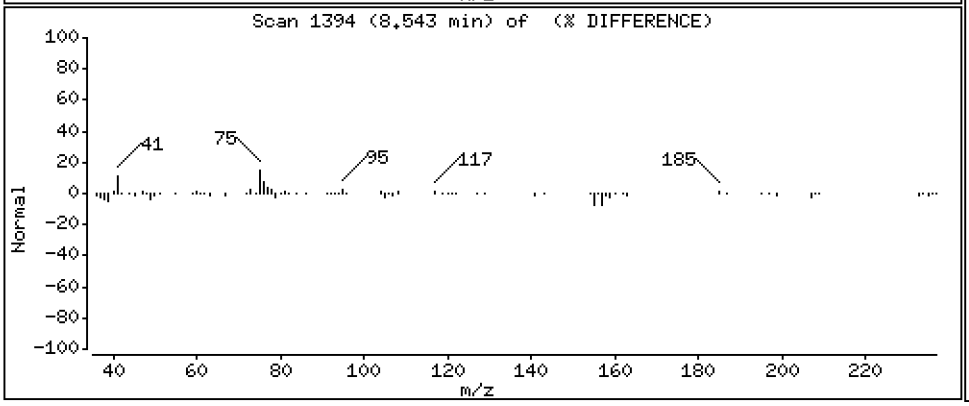
Column phase: DB-VRX Column diameter: 0.25

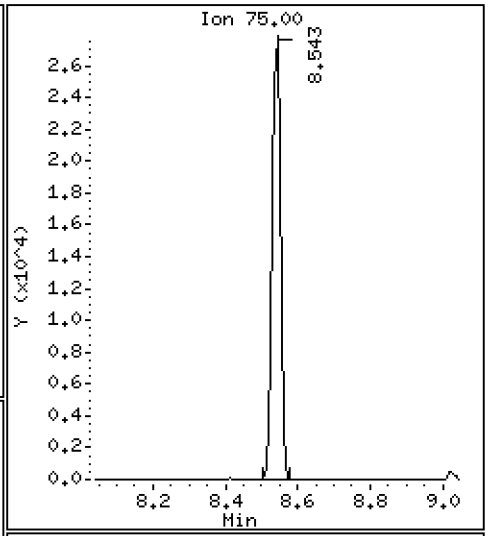
114 1,2-Dibromo-3-chloropropane Concentration: 47.5639 ug/L

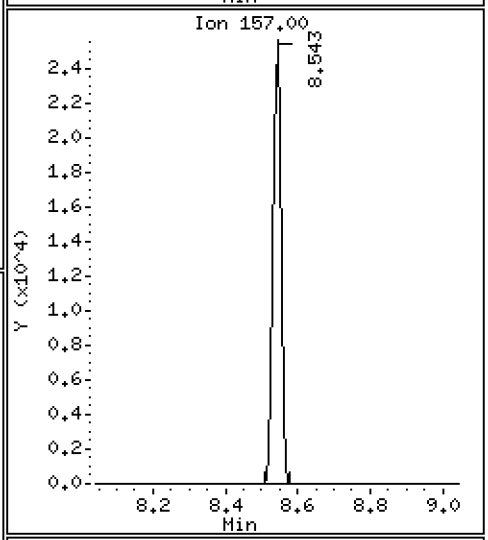


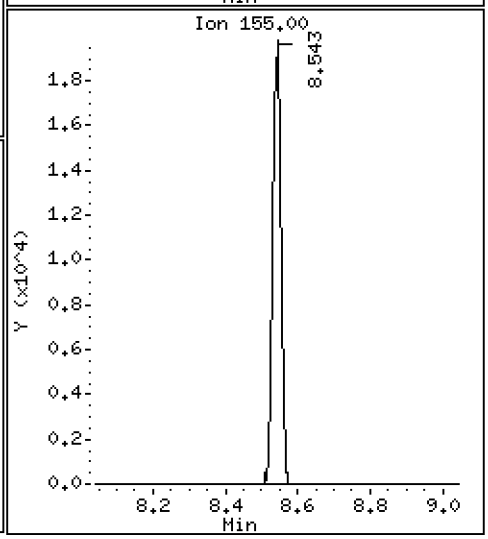












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 115

Date : 26-OCT-2016 09:18

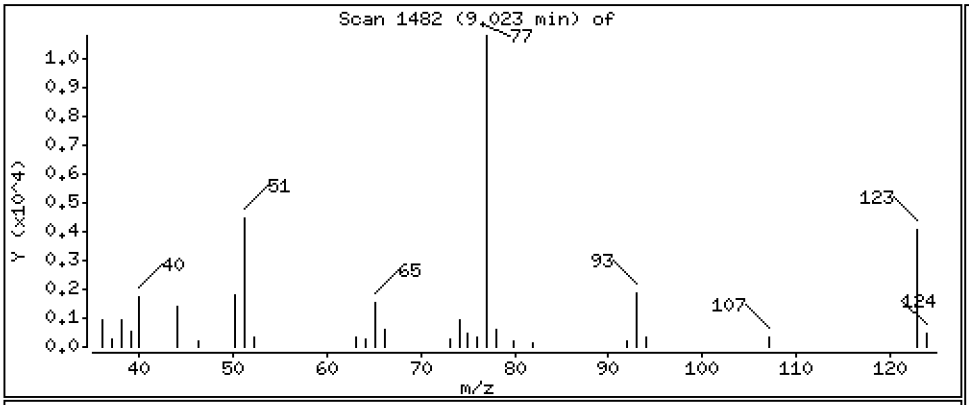
Client ID: Instrument: ms03.i

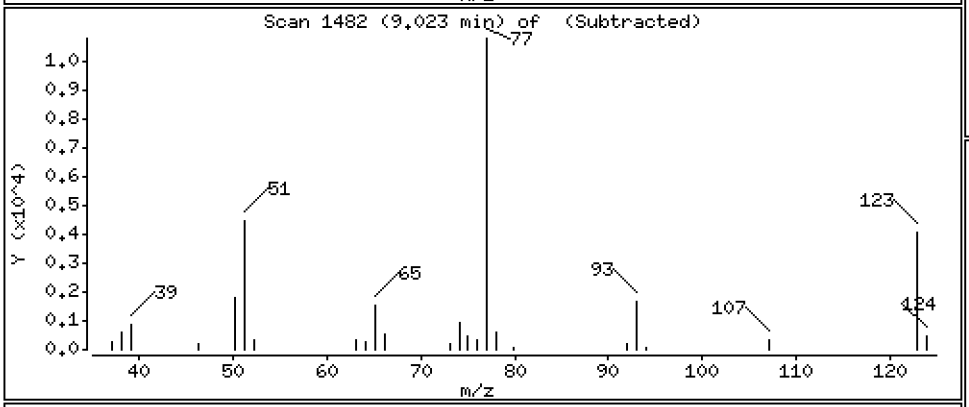
Sample Info: 1800;;1;2;4;;;

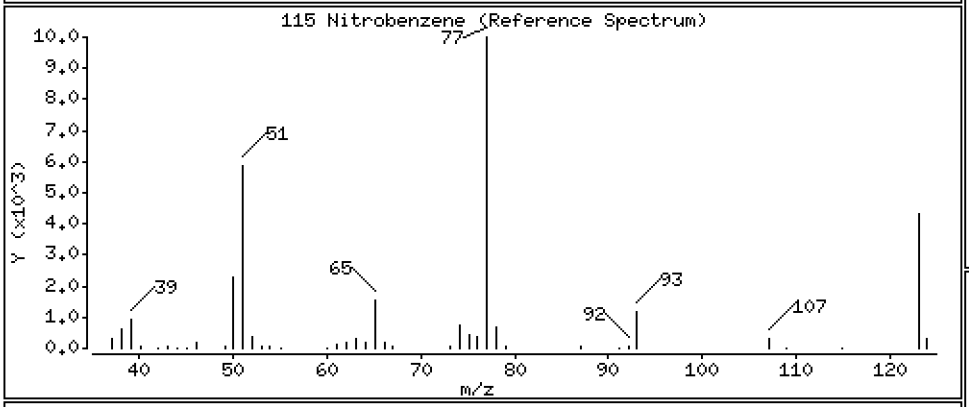
Purge Volume: 5.0 Operator: DD

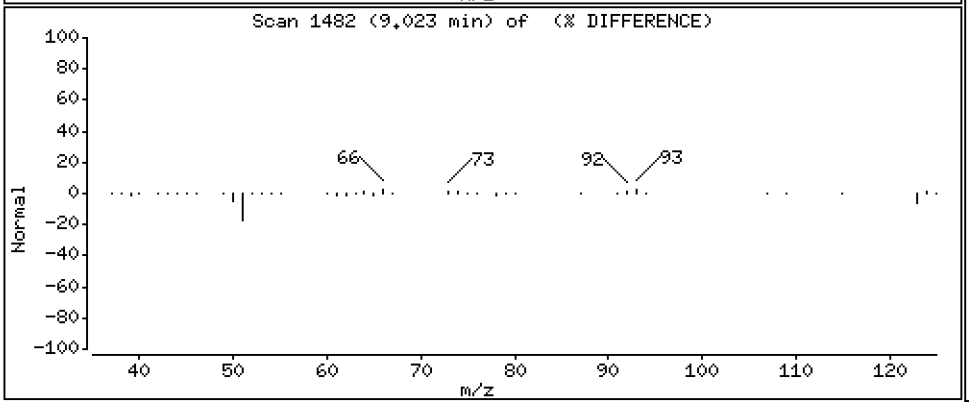
Column phase: DB-VRX Column diameter: 0.25

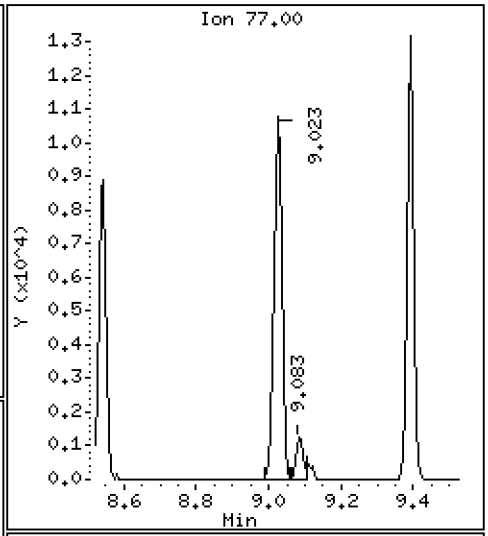
115 Nitrobenzene Concentration: 355.944 ug/L

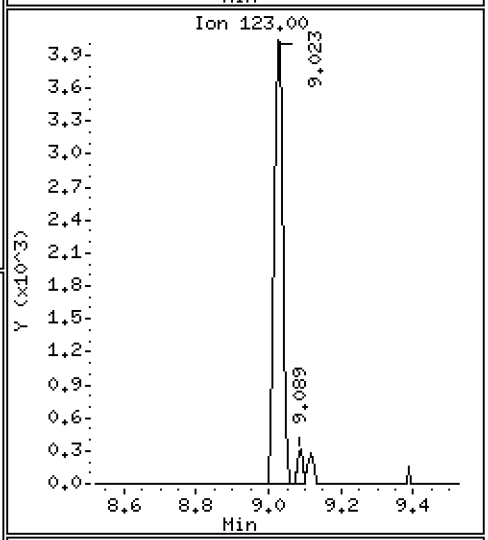


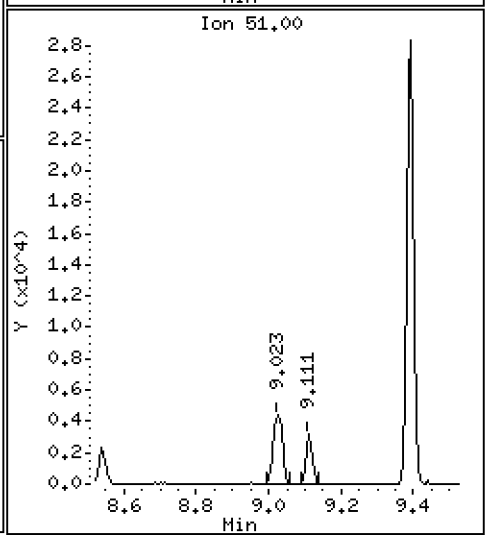












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 116

Date : 26-OCT-2016 09:18

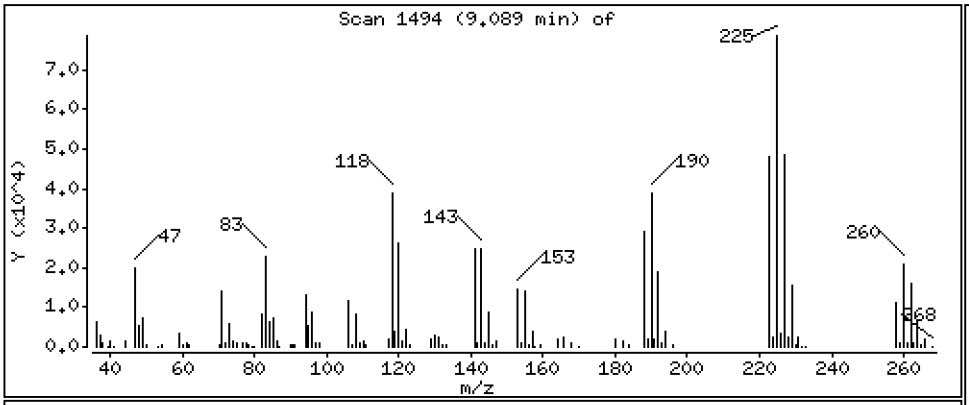
Client ID: Instrument: ms03.i

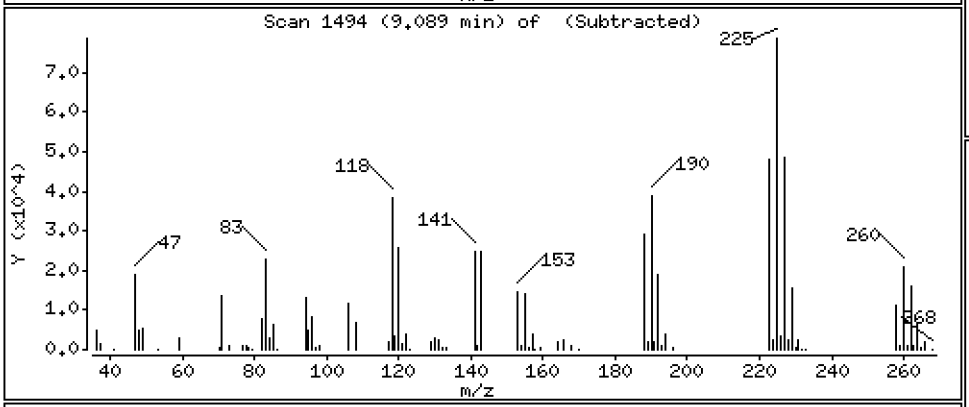
Sample Info: 1800;;1;2;4;;;

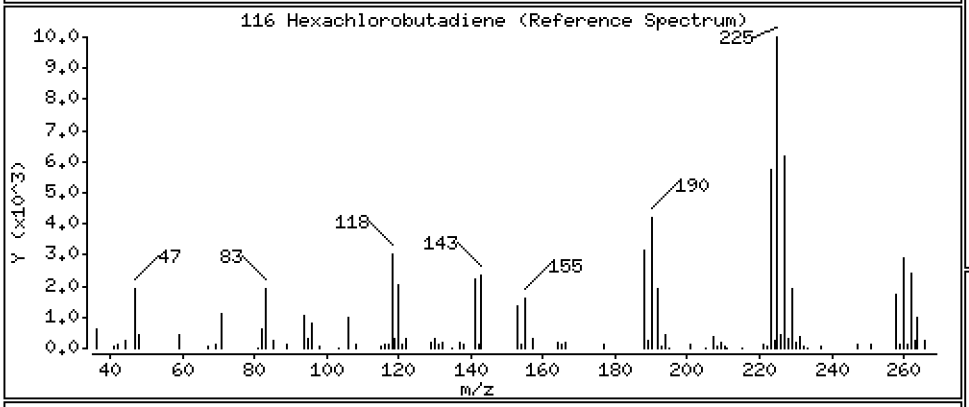
Purge Volume: 5.0 Operator: DD

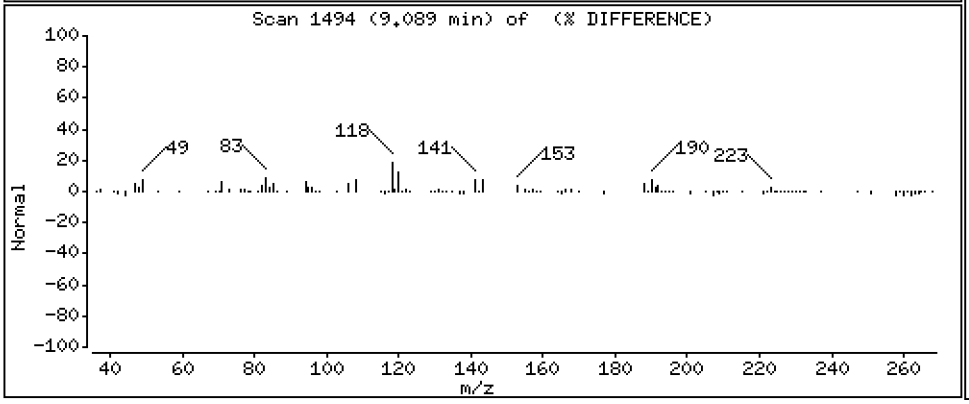
Column phase: DB-VRX Column diameter: 0.25

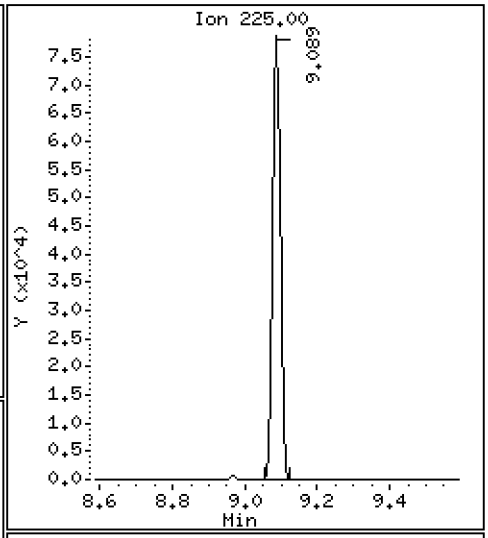
116 Hexachlorobutadiene Concentration: 55.7103 ug/L

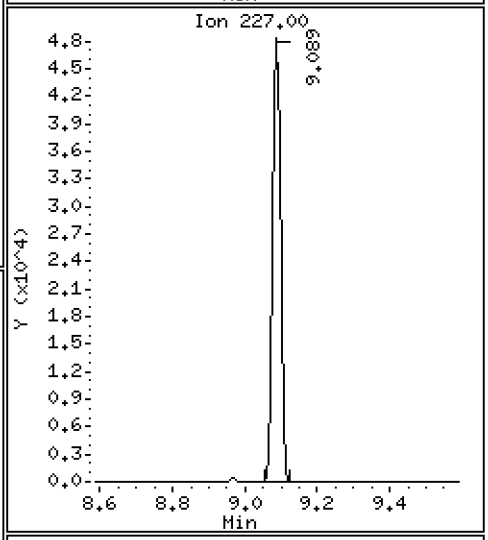


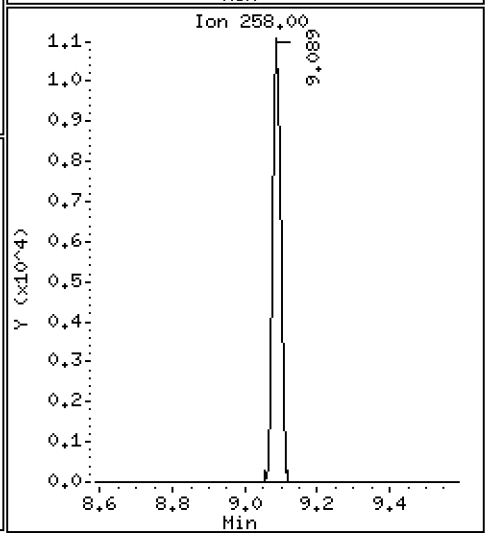












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 117

Date : 26-OCT-2016 09:18

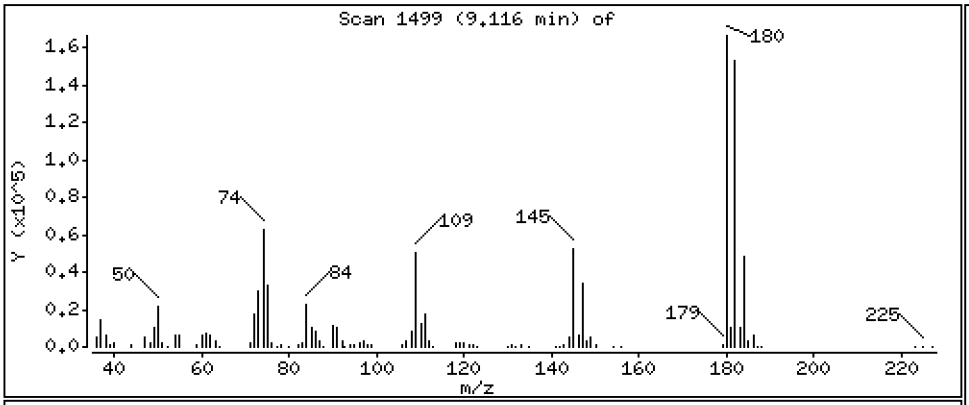
Client ID: Instrument: ms03.i

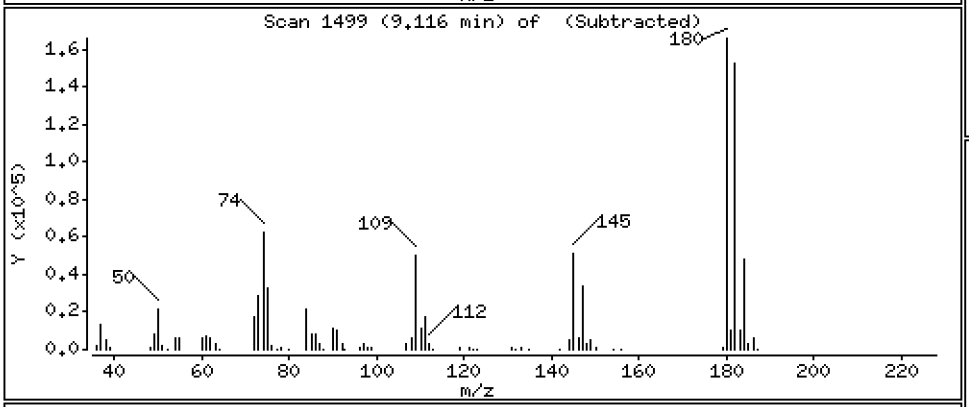
Sample Info: 1800;;1;2;4;;;

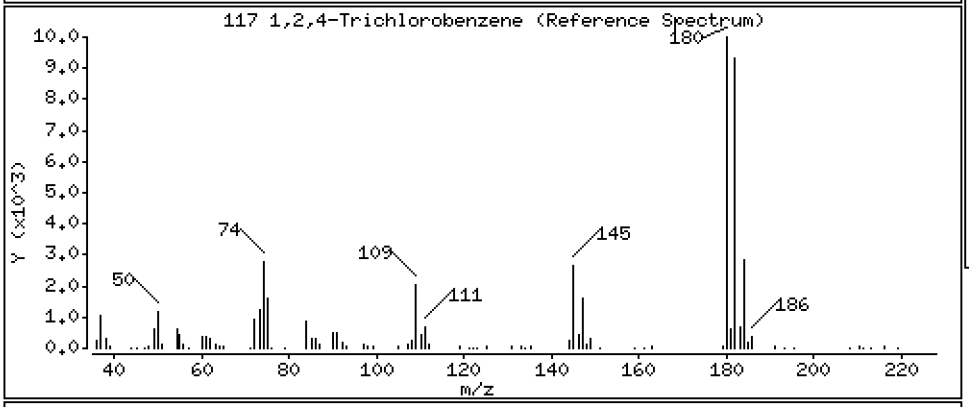
Purge Volume: 5.0 Operator: DD

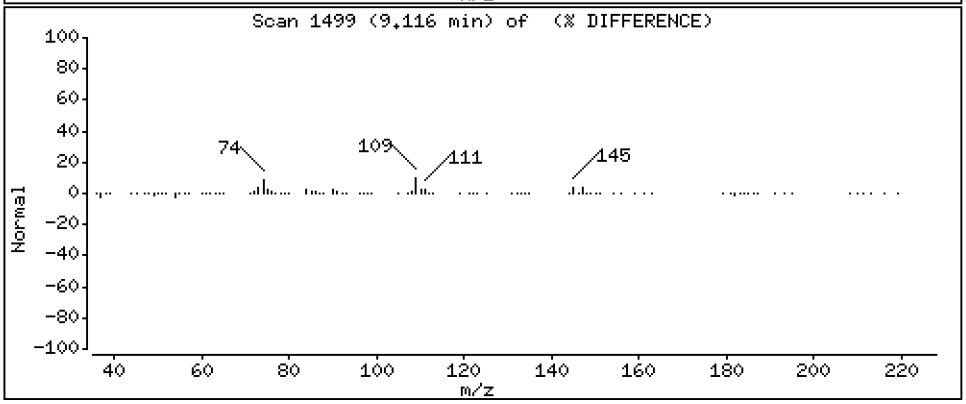
Column phase: DB-VRX Column diameter: 0.25

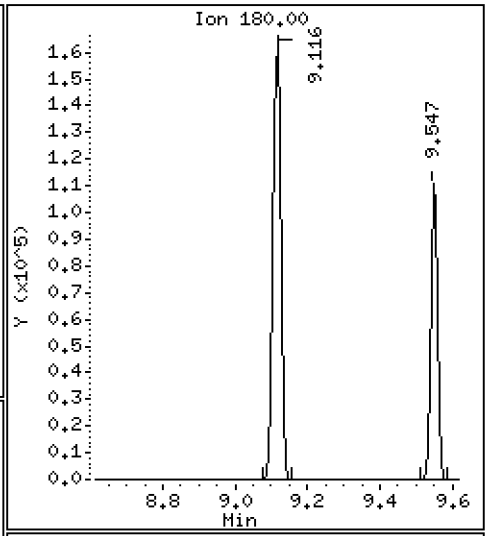
117 1,2,4-Trichlorobenzene Concentration: 51.1237 ug/L

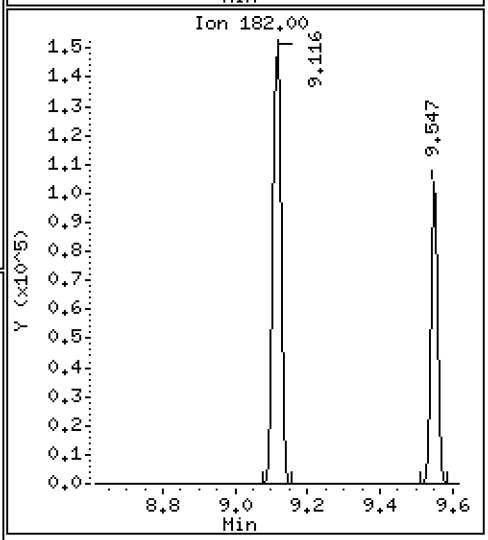












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 118

Date : 26-OCT-2016 09:18

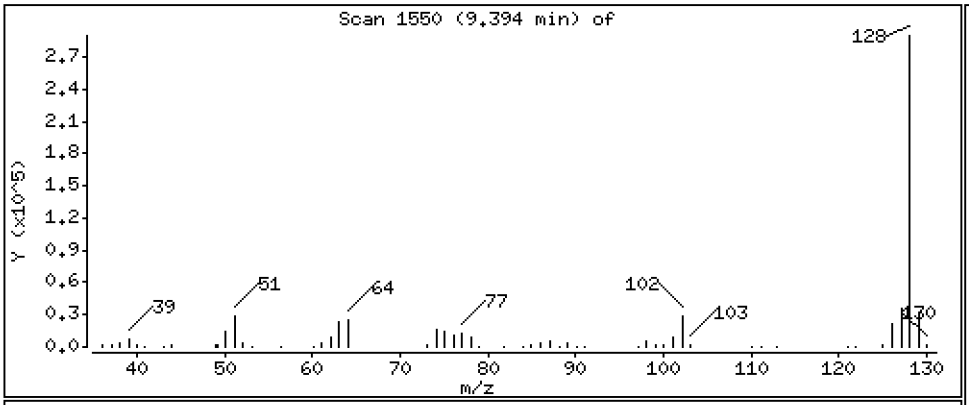
Client ID: Instrument: ms03.i

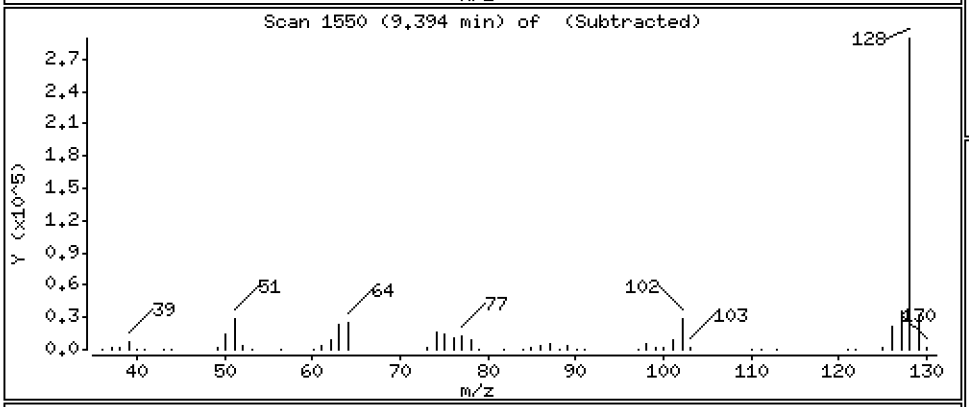
Sample Info: 1800;;1;2;4;;;

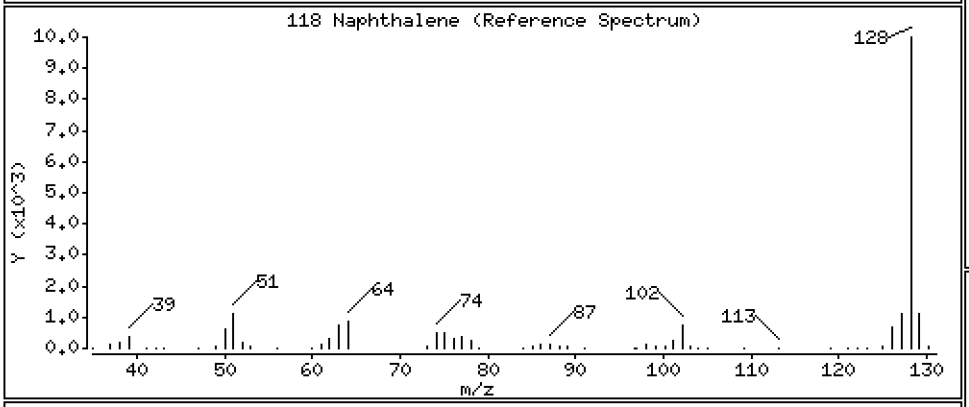
Purge Volume: 5.0 Operator: DD

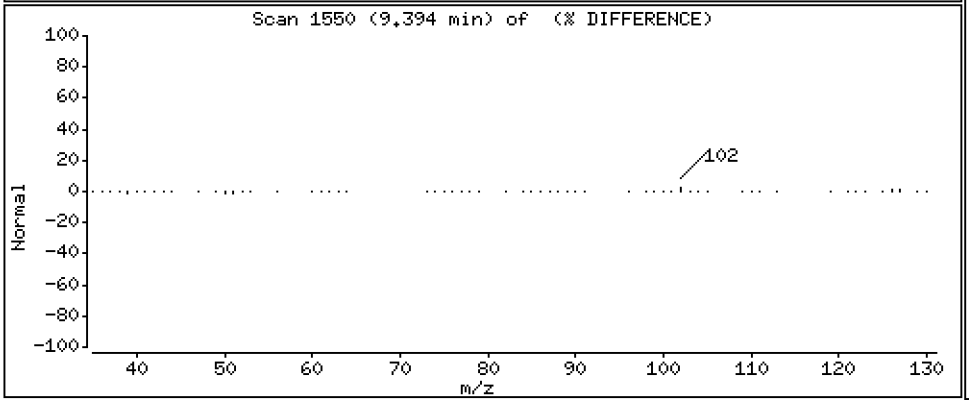
Column phase: DB-VRX Column diameter: 0.25

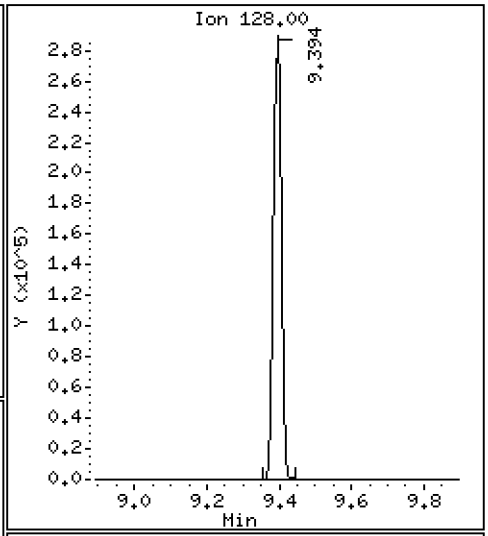
118 Naphthalene Concentration: 48.7899 ug/L

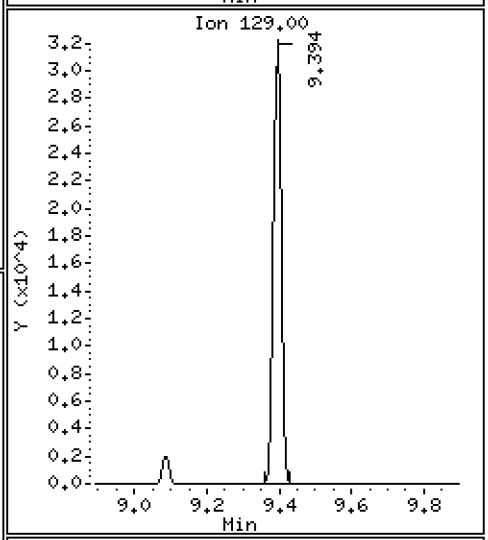


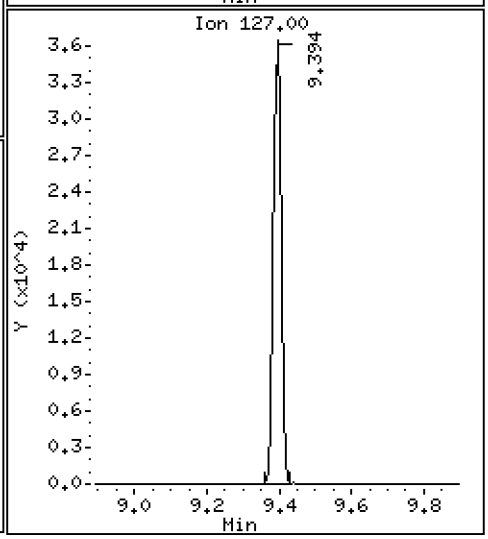












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102601Adod.D Page 119

Date : 26-OCT-2016 09:18

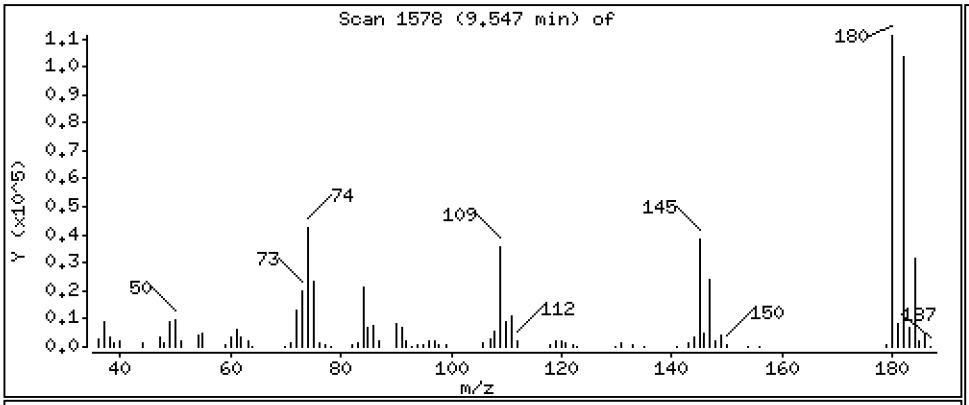
Client ID: Instrument: ms03.i

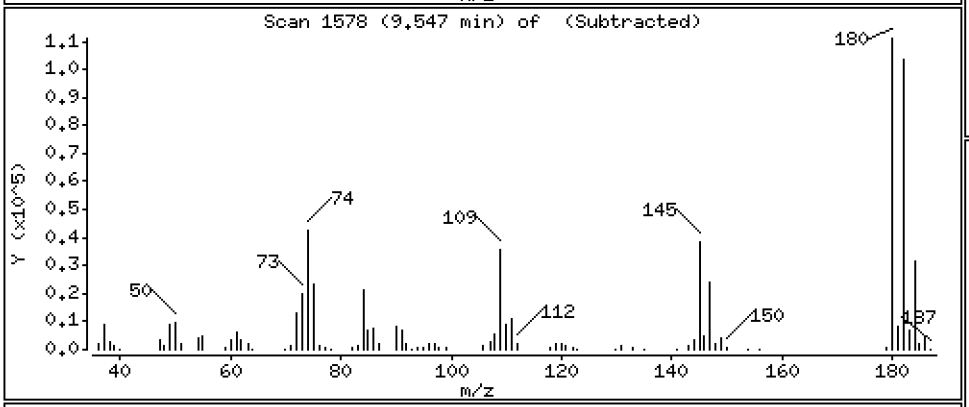
Sample Info: 1800;;1;2;4;;;

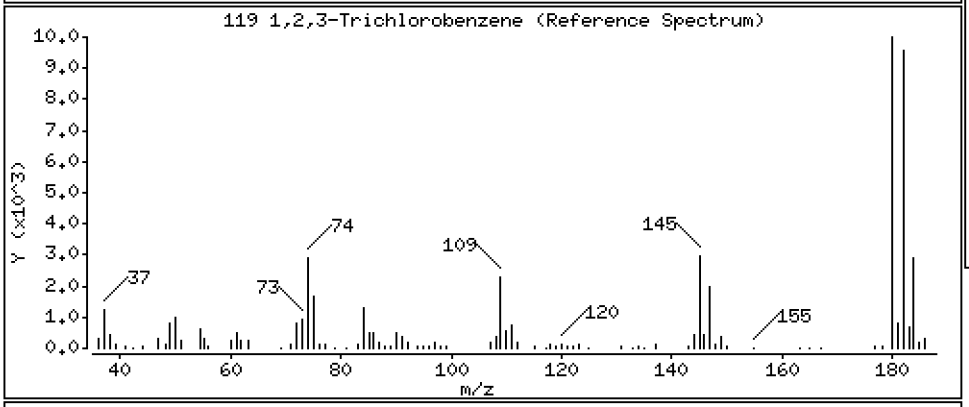
Purge Volume: 5.0 Operator: DD

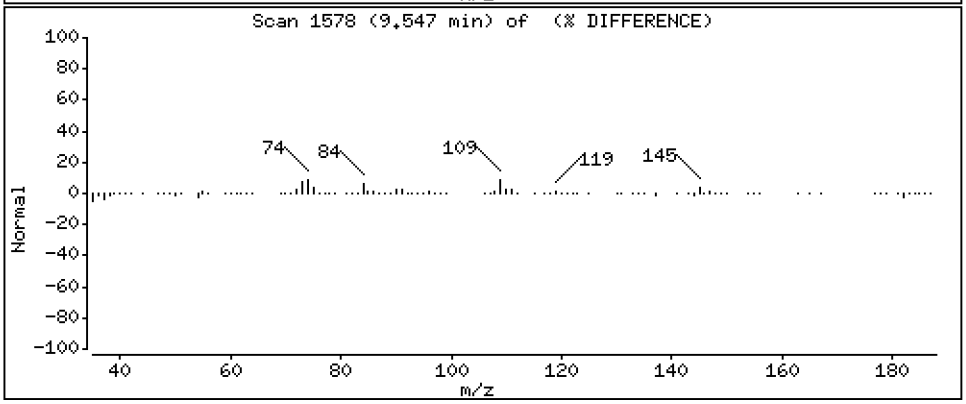
Column phase: DB-VRX Column diameter: 0.25

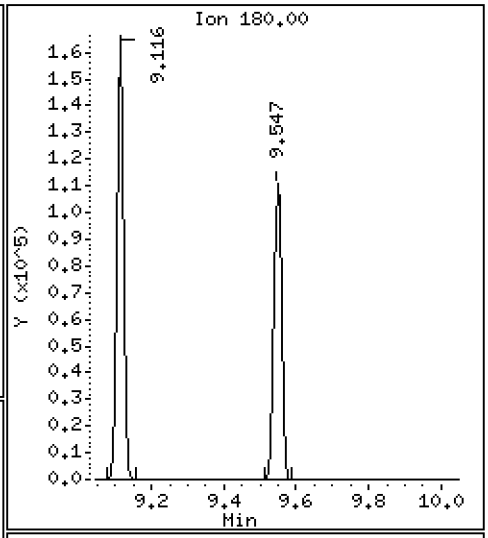
119 1,2,3-Trichlorobenzene Concentration: 53.4060 ug/L

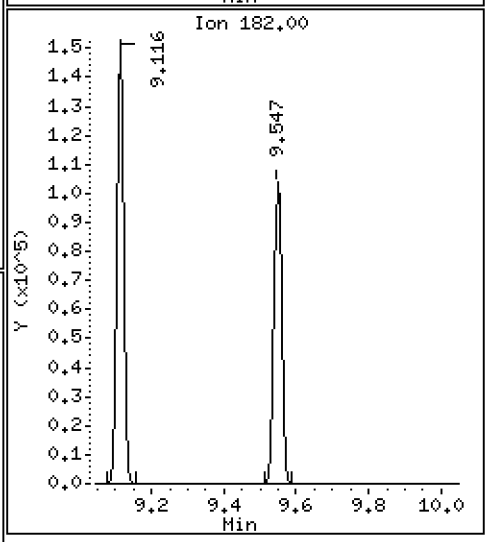










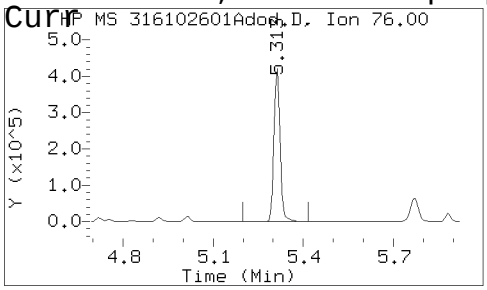


MANUAL INTEGRATION REPORT

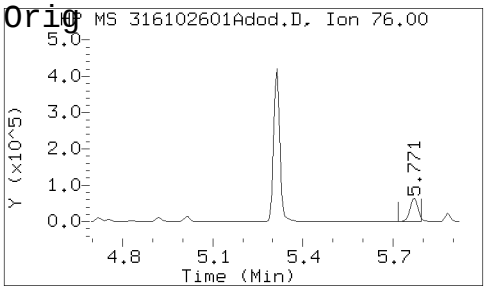
Report Date: 10/27/2016 11:05
Lab Sample ID: 1800 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161026.b/316102601Adod.D
RawFile:/Chem2/ms03.i/03_2016/3161026.b/RawData/316102601Adod.D
Injection Date: 26-OCT-2016 09:18 Operator: DD

1,3-Dichloropropane

Curr



Orig



Curr. Area: 589841
Orig. Area: 119633

Curr. ON-COL: 46.3621
Orig. ON-COL: 9.40328

UNASSIGNED PEAK REPORT

Report Date: 10/27/2016 11:05
Lab Sample ID: 1800 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161026.b/316102601Adod.D
RawFile:/Chem2/ms03.i/03_2016/3161026.b/RawData/316102601Adod.D
Injection Date: 26-OCT-2016 09:18 Operator: DD

Data File: 316102629.D Page 1
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629
Lab Smp Id: 1801
Inj Date : 26-OCT-2016 19:41
Operator : DD Inst ID: ms03.i
Smp Info : 1801;;1;2;4;;;
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b09
Meth Date : 27-Oct-2016 10:55 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 28 QC Sample:
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.258	(0.332)	550284	50.3536	50.3536	
2 Chloromethane	50	1.389	1.389	(0.367)	549769	55.7655	55.7655	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	576300	52.6439	52.6439	
4 Bromomethane	94	1.646	1.640	(0.434)	233590	52.5919	52.5919	
5 Chloroethane	64	1.722	1.717	(0.454)	344928	51.0262	51.0262	
6 Pentane	41	1.793	1.793	(0.473)	325316	55.8162	55.8162	
7 Trichlorofluoromethane	101	1.798	1.799	(0.475)	623900	50.6457	50.6457	
8 Dichlorofluoromethane	67	1.826	1.826	(0.482)	787703	47.9184	47.9184	
9 Ethyl Ether	74	1.968	1.968	(0.519)	250304	45.7831	45.7831	
10 1,1-Dichloroethene	61	2.088	2.088	(0.551)	564180	49.6391	49.6391	
12 Carbon Disulfide	76	2.120	2.120	(0.560)	921518	47.5291	47.5291	
11 Freon 113	101	2.104	2.099	(0.555)	303390	47.3304	47.3304	
13 Iodomethane	127	2.180	2.180	(0.575)	106951	59.6977	59.6977	
14 Acrolein	56	2.273	2.273	(0.600)	558628	523.470	523.470	
16 3-Chloro-1-propene	41	2.344	2.344	(0.619)	473246	49.9799	49.9799	
15 Isopropyl Alcohol	45	2.333	2.333	(0.616)	52616	216.440	216.440(M)	H
17 Methylene Chloride	84	2.404	2.404	(0.634)	371575	50.6170	50.6170	
18 Acetone	58	2.426	2.426	(0.640)	144967	245.994	245.994	
19 Methyl acetate	74	2.481	2.481	(0.655)	58091	49.6765	49.6765(Q)	
20 trans-1,2-Dichloroethene	61	2.486	2.486	(0.656)	543648	49.2126	49.2126	
21 Hexane	57	2.519	2.519	(0.665)	749713	48.1870	48.1870	

Data File: 316102629.D Page 2
Report Date: 27-Oct-2016 11:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	22 Methyl t-Butyl Ether	73	2.535	2.530	(0.669)	947751	49.7138	49.7138	
	23 tert.- Butyl Alcohol	59	2.568	2.568	(0.678)	96763	235.842	235.842	
	24 Acetonitrile	41	2.682	2.682	(0.708)	180628	291.802	291.802	
	25 Diisopropyl ether	45	2.721	2.721	(0.718)	1346967	53.9811	53.9811	
	26 Chloroprene	53	2.797	2.797	(0.738)	578839	53.1393	53.1393	
	27 1,1-Dichloroethane	63	2.813	2.813	(0.742)	702858	48.8696	48.8696	
	28 Acrylonitrile	53	2.846	2.841	(0.751)	677636	260.244	260.244	
	30 n-Propanol	41	2.912	2.912	(0.768)	260008	584.866	584.866(Q)	
	29 Ethyl tert-butyl ether	59	2.912	2.912	(0.768)	1109418	52.3794	52.3794	
	31 Vinyl acetate	86	2.928	2.928	(0.773)	73694	46.8232	46.8232	
	32 cis-1,2-Dichloroethene	61	3.097	3.097	(0.817)	545367	49.3973	49.3973	
	33 2,2-Dichloropropane	77	3.157	3.157	(0.833)	374523	42.8275	42.8275	
M	100 1,2-Dichloroethene, Total	61				1089015	98.6099	98.6099	
	34 Bromochloromethane	128	3.206	3.206	(0.846)	144748	47.1265	47.1265	
	35 Cyclohexane	84	3.212	3.212	(0.847)	583896	49.2188	49.2188	
	36 Chloroform	83	3.234	3.234	(0.853)	689469	52.4492	52.4492	
	37 Ethyl acetate	43	3.283	3.277	(0.866)	351920	55.6934	55.6934	
	38 Methyl acrylate	55	3.294	3.294	(0.869)	330358	53.9051	53.9051	
	39 Carbon Tetrachloride	117	3.321	3.321	(0.876)	384328	50.7686	50.7686	
	40 Tetrahydrofuran	42	3.332	3.332	(0.879)	543113	271.268	271.268	
$	41 Dibromofluoromethane	113	3.337	3.337	(0.881)	267093	45.0079	45.0079	
	42 1,1,1-Trichloroethane	97	3.359	3.359	(0.886)	511721	50.7170	50.7170	
	43 2-Butanone	72	3.397	3.397	(0.896)	214147	250.925	250.925	
	44 1,1-Dichloropropene	75	3.424	3.425	(0.904)	532273	49.9042	49.9042	
	45 1-Chlorobutane	41	3.446	3.446	(0.909)	447175	57.8187	57.8187	
	46 Heptane	71	3.512	3.512	(0.927)	225455	46.3317	46.3317	
	48 Propionitrile	54	3.577	3.577	(0.944)	246813	253.303	253.303	
	47 Benzene	78	3.561	3.561	(0.940)	1612825	48.9782	48.9782	
	49 Methacrylonitrile	67	3.583	3.583	(0.945)	152704	50.9317	50.9317	
	50 tert-amyl methyl Ether	73	3.599	3.599	(0.950)	862860	50.4159	50.4159	
$	51 1,2-Dichloroethane-d4	65	3.637	3.637	(0.960)	362991	51.4219	51.4219	
	54 Isobutyl alcohol	43	3.632	3.632	(0.958)	83152	501.027	501.027(QM)	H
	52 1,2-Dichloroethane	62	3.675	3.676	(0.970)	481202	49.3414	49.3414	
	53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	74124	221.876	221.876	
*	55 Fluorobenzene	96	3.790	3.790	(1.000)	900006	30.0000		
	56 Diisobutylene	57	3.790	3.796	(1.000)	1013335	54.8881	54.8881	
	57 Trichloroethene	95	3.883	3.883	(1.024)	365399	46.6155	46.6155	
	58 Methyl cyclohexane	83	3.883	3.883	(0.674)	595996	45.1665	45.1665	
	59 tert-Amyl Ethylether	59	3.986	3.987	(1.052)	789733	51.8019	51.8019	
	60 Dibromomethane	93	4.139	4.139	(1.092)	194315	48.5688	48.5688	
	61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	411184	50.8111	50.8111	
	62 Bromodichloromethane	83	4.221	4.221	(1.114)	412289	50.6205	50.6205	
	63 Methyl methacrylate	41	4.292	4.292	(1.132)	318495	57.1123	57.1123	
	64 1,4-Dioxane	88	4.336	4.336	(1.144)	31333	1166.94	1166.94	
	65 2-Chloroethylvinyl ether	63	4.548	4.549	(1.200)	164488	41.7359	41.7359	
	66 cis-1,3-Dichloropropene	75	4.603	4.603	(0.799)	531399	49.5394	49.5394	
	67 Octane	85	4.609	4.609	(0.800)	141356	43.8728	43.8728	
$	68 Toluene-d8	98	4.723	4.723	(0.820)	1167057	47.3647	47.3647	
	69 Toluene	92	4.756	4.756	(0.826)	898396	47.4437	47.4437	
	70 Chloroacetonitrile	48	4.832	4.832	(0.839)	38313	223.053	223.053	
	71 2-Nitropropane	41	4.909	4.909	(0.852)	352743	250.239	250.239	
	72 1,1-Dichloro-2-propanone	63	4.920	4.920	(0.854)	32441	248.188	248.188(Q)	
	73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.985	(0.865)	1850377	283.448	283.448	
	75 trans-1,3-Dichloropropene	75	5.012	5.012	(0.870)	468762	50.2922	50.2922	

Data File: 316102629.D Page 3
Report Date: 27-Oct-2016 11:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	241918	52.3507	52.3507	
	76 Ethyl methacrylate	69	5.094	5.094	(0.884)	460699	53.9320	53.9320	
	77 1,1,2-Trichloroethane	83	5.121	5.127	(0.889)	257737	46.8204	46.8204	
	78 Chlorodibromomethane	129	5.247	5.247	(0.911)	227758	46.0057	46.0057	
	79 1,3-Dichloropropane	76	5.312	5.312	(0.922)	553011	46.5498	46.5498(M)	H
	80 1,2-Dibromoethane	107	5.422	5.422	(0.941)	256229	46.7958	46.7958	
	81 2-Hexanone	43	5.542	5.542	(0.962)	1193420	288.619	288.619	
	82 1-Chlorohexane	91	5.738	5.738	(0.996)	460064	47.6379	47.6379	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	397503	30.0000		
	85 Ethylbenzene	106	5.782	5.782	(1.004)	491596	45.3035	45.3035	
	84 Chlorobenzene	112	5.771	5.771	(1.002)	871226	43.8541	43.8541	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.814	(1.009)	252889	48.4801	48.4801	
	87 mp-Xylene	106	5.880	5.880	(1.021)	1174339	92.7434	92.7434	
M	120 1,3-Dichloropropene, Total	75				1000161	99.8316	99.8316	
	88 o-Xylene	106	6.196	6.196	(1.076)	547708	48.7190	48.7190	
	89 Styrene	104	6.235	6.235	(0.829)	912824	50.9154	50.9154	
	90 Bromoform	173	6.262	6.262	(0.833)	85200	37.0993	37.0993	
	91 Isopropylbenzene	105	6.425	6.426	(0.855)	1427740	48.7371	48.7371	
$	92 4-Bromofluorobenzene	174	6.649	6.649	(0.885)	231874	46.3454	46.3454	
M	121 TOTAL XYLENES	106				1722047	141.462	141.462	
	94 n-Propylbenzene	120	6.736	6.737	(0.896)	356414	48.1138	48.1138	
	93 Bromobenzene	156	6.731	6.731	(0.895)	276016	44.9444	44.9444	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.791	(0.903)	345500	48.6335	48.6335	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.916)	1074108	50.0751	50.0751	
	96 o-Chlorotoluene	91	6.867	6.868	(0.914)	1124204	48.8729	48.8729	
	98 1,2,3-Trichloropropane	110	6.906	6.906	(0.919)	97458	46.1543	46.1543	
	99 trans-1,4-Dichloro-2-butene	53	6.933	6.933	(0.922)	71345	42.0557	42.0557(Q)	
	101 p-Chlorotoluene	91	6.993	6.993	(0.930)	1027939	49.0521	49.0521	
	102 tert-Butylbenzene	134	7.140	7.140	(0.950)	225619	46.4496	46.4496	
	103 Pentachloroethane	117	7.162	7.162	(0.953)	185871	45.9660	45.9660	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.957)	1067286	50.8889	50.8889	
	105 sec-Butylbenzene	105	7.277	7.277	(0.968)	1303775	48.6096	48.6096	
	106 p-Isopropyltoluene	134	7.391	7.391	(0.983)	247185	48.3705	48.3705	
	107 1,3-Dichlorobenzene	146	7.462	7.462	(0.993)	486002	48.4031	48.4031	
*	108 1,4-Dichlorobenzene-d4	152	7.517	7.522	(1.000)	241732	30.0000		
	109 1,4-Dichlorobenzene	146	7.533	7.533	(1.002)	489828	48.3310	48.3310	
	111 n-Butylbenzene	134	7.735	7.735	(1.029)	208754	46.3889	46.3889(Q)	
	110 Benzyl Chloride	126	7.735	7.735	(1.029)	42145	31.6476	31.6476(Q)	
	112 Hexachloroethane	117	7.850	7.850	(1.044)	135694	43.4547	43.4547	
	113 1,2-Dichlorobenzene	146	7.877	7.877	(1.048)	436501	48.3144	48.3144	
	114 1,2-Dibromo-3-chloropropane	75	8.543	8.543	(1.136)	35670	47.0975	47.0975	
	115 Nitrobenzene	77	9.028	9.023	(1.201)	2350	259.114	259.114(Q)	
	116 Hexachlorobutadiene	225	9.088	9.088	(1.209)	75511	44.8910	44.8910	
	117 1,2,4-Trichlorobenzene	180	9.115	9.116	(1.213)	163520	42.4395	42.4395	
	118 Naphthalene	128	9.394	9.394	(1.250)	306383	42.8843	42.8843	
	119 1,2,3-Trichlorobenzene	180	9.547	9.547	(1.270)	110366	43.9665	43.9665	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 316102629.D Page 4
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i Calibration Date: 26-OCT-2016
Lab File ID: 316102629.D Calibration Time: 09:18
Lab Smp Id: 1801
Analysis Type: VOA Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: DD
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b0
Misc Info:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	900006	-11.17
83 Chlorobenzene-d5	432864	216432	865728	397503	-8.17
108 1,4-Dichlorobenze	273837	136919	547674	241732	-11.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	-0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	-0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.07

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102629.D Page 5
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

RECOVERY REPORT

Client Name: Client SDG: 3161026.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 1801
Level: LOW Operator: DD
Data Type: MS DATA SampleType:
SpikeList File: DODENDCCV.spk Quant Type: ISTD
Sublist File: DODall.sub
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b0
Misc Info:

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Dichlorodifluorome	50.0000	50.3536	100.71	50-150
2	Chloromethane	50.0000	55.7655	111.53	50-150
3	Vinyl Chloride	50.0000	52.6439	105.29	50-150
4	Bromomethane	50.0000	52.5919	105.18	50-150
5	Chloroethane	50.0000	51.0262	102.05	50-150
6	Pentane	50.0000	55.8162	111.63	50-150
7	Trichlorofluoromet	50.0000	50.6457	101.29	50-150
8	Dichlorofluorometh	50.0000	47.9184	95.84	50-150
9	Ethyl Ether	50.0000	45.7831	91.57	50-150
10	1,1-Dichloroethene	50.0000	49.6391	99.28	50-150
11	Freon 113	50.0000	47.3304	94.66	50-150
12	Carbon Disulfide	50.0000	47.5291	95.06	50-150
13	Iodomethane	50.0000	59.6977	119.40	50-150
14	Acrolein	500.000	523.470	104.69	50-150
15	Isopropyl Alcohol	250.000	216.440	86.58	50-150
16	3-Chloro-1-propene	50.0000	49.9799	99.96	50-150
17	Methylene Chloride	50.0000	50.6170	101.23	50-150
18	Acetone	250.000	245.994	98.40	50-150
19	Methyl acetate	50.0000	49.6765	99.35	50-150
20	trans-1,2-Dichloro	50.0000	49.2126	98.43	50-150
21	Hexane	50.0000	48.1870	96.37	50-150
22	Methyl t-Butyl Eth	50.0000	49.7138	99.43	50-150
23	tert.- Butyl Alcoh	250.000	235.842	94.34	50-150
24	Acetonitrile	250.000	291.802	116.72	50-150
25	Diisopropyl ether	50.0000	53.9811	107.96	50-150
26	Chloroprene	50.0000	53.1393	106.28	50-150
27	1,1-Dichloroethane	50.0000	48.8696	97.74	50-150
28	Acrylonitrile	250.000	260.244	104.10	50-150
30	n-Propanol	500.000	584.866	116.97	50-150
29	Ethyl tert-butyl e	50.0000	52.3794	104.76	50-150
31	Vinyl acetate	50.0000	46.8232	93.65	50-150
32	cis-1,2-Dichloroet	50.0000	49.3973	98.79	50-150
33	2,2-Dichloropropan	50.0000	42.8275	85.66	50-150
34	Bromochloromethane	50.0000	47.1265	94.25	50-150
35	Cyclohexane	50.0000	49.2188	98.44	50-150
36	Chloroform	50.0000	52.4492	104.90	50-150
37	Ethyl acetate	50.0000	55.6934	111.39	50-150
38	Methyl acrylate	50.0000	53.9051	107.81	50-150
39	Carbon Tetrachlori	50.0000	50.7686	101.54	50-150
40	Tetrahydrofuran	250.000	271.268	108.51	50-150

Data File: 316102629.D Page 6
Report Date: 27-Oct-2016 11:31

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
42	1,1,1-Trichloroeth	50.0000	50.7170	101.43	50-150
43	2-Butanone	250.000	250.925	100.37	50-150
44	1,1-Dichloropropen	50.0000	49.9042	99.81	50-150
45	1-Chlorobutane	50.0000	57.8187	115.64	50-150
46	Heptane	50.0000	46.3317	92.66	50-150
47	Benzene	50.0000	48.9782	97.96	50-150
48	Propionitrile	250.000	253.303	101.32	50-150
49	Methacrylonitrile	50.0000	50.9317	101.86	50-150
50	tert-amyl methyl E	50.0000	50.4159	100.83	50-150
54	Isobutyl alcohol	500.000	501.027	100.21	50-150
52	1,2-Dichloroethane	50.0000	49.3414	98.68	50-150
53	tert-Amyl Alcohol	250.000	221.876	88.75	50-150
56	Diisobutylene	50.0000	54.8881	109.78	50-150
57	Trichloroethene	50.0000	46.6155	93.23	50-150
58	Methyl cyclohexane	50.0000	45.1665	90.33	50-150
59	tert-Amyl Ethyleth	50.0000	51.8019	103.60	50-150
60	Dibromomethane	50.0000	48.5688	97.14	50-150
61	1,2-Dichloropropan	50.0000	50.8111	101.62	50-150
62	Bromodichlorometha	50.0000	50.6205	101.24	50-150
63	Methyl methacrylat	50.0000	57.1123	114.22	50-150
64	1,4-Dioxane	1250.00	1166.94	93.36	50-150
65	2-Chloroethylvinyl	50.0000	41.7359	83.47	50-150
66	cis-1,3-Dichloropr	50.0000	49.5394	99.08	50-150
67	Octane	50.0000	43.8728	87.75	50-150
69	Toluene	50.0000	47.4437	94.89	50-150
70	Chloroacetonitrile	250.000	223.053	89.22	50-150
71	2-Nitropropane	250.000	250.239	100.10	50-150
72	1,1-Dichloro-2-pro	250.000	248.188	99.28	50-150
73	4-Methyl-2-Pentano	250.000	283.448	113.38	50-150
74	Tetrachloroethene	50.0000	52.3507	104.70	50-150
75	trans-1,3-Dichloro	50.0000	50.2922	100.58	50-150
76	Ethyl methacrylate	50.0000	53.9320	107.86	50-150
77	1,1,2-Trichloroeth	50.0000	46.8204	93.64	50-150
78	Chlorodibromometha	50.0000	46.0057	92.01	50-150
80	1,2-Dibromoethane	50.0000	46.7958	93.59	50-150
81	2-Hexanone	250.000	288.619	115.45	50-150
82	1-Chlorohexane	50.0000	47.6379	95.28	50-150
79	1,3-Dichloropropan	50.0000	46.5498	93.10	50-150
84	Chlorobenzene	50.0000	43.8541	87.71	50-150
85	Ethylbenzene	50.0000	45.3035	90.61	50-150
86	1,1,1,2-Tetrachlor	50.0000	48.4801	96.96	50-150
87	mp-Xylene	100.000	92.7434	92.74	50-150
88	o-Xylene	50.0000	48.7190	97.44	50-150
89	Styrene	50.0000	50.9154	101.83	50-150
90	Bromoform	50.0000	37.0993	74.20	50-150
91	Isopropylbenzene	50.0000	48.7371	97.47	50-150
93	Bromobenzene	50.0000	44.9444	89.89	50-150
94	n-Propylbenzene	50.0000	48.1138	96.23	50-150
95	1,1,2,2-Tetrachlor	50.0000	48.6335	97.27	50-150
96	o-Chlorotoluene	50.0000	48.8729	97.75	50-150
M 100	1,2-Dichloroethene	100.000	98.6099	98.61	50-150
97	1,3,5-Trimethylben	50.0000	50.0751	100.15	50-150
98	1,2,3-Trichloropro	50.0000	46.1543	92.31	50-150
99	trans-1,4-Dichloro	50.0000	42.0557	84.11	50-150

Data File: 316102629.D Page 7
Report Date: 27-Oct-2016 11:31

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	101 p-Chlorotoluene	50.0000	49.0521	98.10	50-150
	102 tert-Butylbenzene	50.0000	46.4496	92.90	50-150
	103 Pentachloroethane	50.0000	45.9660	91.93	50-150
	104 1,2,4-Trimethylben	50.0000	50.8889	101.78	50-150
	105 sec-Butylbenzene	50.0000	48.6096	97.22	50-150
	106 p-Isopropyltoluene	50.0000	48.3705	96.74	50-150
	107 1,3-Dichlorobenzen	50.0000	48.4031	96.81	50-150
	109 1,4-Dichlorobenzen	50.0000	48.3310	96.66	50-150
	110 Benzyl Chloride	50.0000	31.6476	63.30	50-150
	111 n-Butylbenzene	50.0000	46.3889	92.78	50-150
	112 Hexachloroethane	50.0000	43.4547	86.91	50-150
	113 1,2-Dichlorobenzen	50.0000	48.3144	96.63	50-150
	114 1,2-Dibromo-3-chlo	50.0000	47.0975	94.19	50-150
	115 Nitrobenzene	500.000	259.114	51.82	50-150
	116 Hexachlorobutadien	50.0000	44.8910	89.78	50-150
	117 1,2,4-Trichloroben	50.0000	42.4395	84.88	50-150
	118 Naphthalene	50.0000	42.8843	85.77	50-150
M	120 1,3-Dichloropropen	100.000	99.8316	99.83	50-150
	119 1,2,3-Trichloroben	50.0000	43.9665	87.93	50-150
M	121 TOTAL XYLENES	150.000	141.462	94.31	50-150

	SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$	41 Dibromofluorometha	50.0000	45.0079	90.02	80-119
$	51 1,2-Dichloroethane	50.0000	51.4219	102.84	81-118
$	68 Toluene-d8	50.0000	47.3647	94.73	89-112
$	92 4-Bromofluorobenze	50.0000	46.3454	92.69	85-114

Data File: 316102629.D Page 8
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161026.b
Lab Smp Id: 1801
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: DD
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	50.3536	
74-87-3	Chloromethane	55.7655	
75-01-4	Vinyl Chloride	52.6439	
74-83-9	Bromomethane	52.5919	
75-00-3	Chloroethane	51.0262	
109-66-0	Pentane	55.8162	
75-69-4	Trichlorofluoromethane	50.6457	
75-43-4	Dichlorofluoromethane	47.9184	
60-29-7	Ethyl Ether	45.7831	
75-35-4	1,1-Dichloroethene	49.6391	
75-15-0	Carbon Disulfide	47.5291	
76-13-1	Freon 113	47.3304	
74-88-4	Iodomethane	59.6977	
107-02-8	Acrolein	523.470	
107-05-1	3-Chloro-1-propene	49.9799	
67-63-0	Isopropyl Alcohol	216.440	
75-09-2	Methylene Chloride	50.6170	
67-64-1	Acetone	245.994	
79-20-9	Methyl acetate	49.6765	
156-60-5	trans-1,2-Dichloroethene	49.2126	
110-54-3	Hexane	48.1870	
1634-04-4	Methyl t-Butyl Ether	49.7138	
75-65-0	tert.- Butyl Alcohol	235.842	
75-05-8	Acetonitrile	291.802	
108-20-3	Diisopropyl ether	53.9811	
126-99-8	Chloroprene	53.1393	
75-34-3	1,1-Dichloroethane	48.8696	
107-13-1	Acrylonitrile	260.244	
71-23-8	n-Propanol	584.866	
637-92-3	Ethyl tert-butyl ether	52.3794	
108-05-4	Vinyl acetate	46.8232	
156-59-2	cis-1,2-Dichloroethene	49.3973	
594-20-7	2,2-Dichloropropane	42.8275	
540-59-0	1,2-Dichloroethene, Total	98.6099	
74-97-5	Bromochloromethane	47.1265	
110-82-7	Cyclohexane	49.2188	
67-66-3	Chloroform	52.4492	
141-78-6	Ethyl acetate	55.6934	
96-33-3	Methyl acrylate	53.9051	
56-23-5	Carbon Tetrachloride	50.7686	
109-99-9	Tetrahydrofuran	271.268	
71-55-6	1,1,1-Trichloroethane	50.7170	

Data File: 316102629.D Page 9
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161026.b
Lab Smp Id: 1801
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: DD
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
78-93-3	2-Butanone	250.925	
563-58-6	1,1-Dichloropropene	49.9042	
109-69-3	1-Chlorobutane	57.8187	
142-82-5	Heptane	46.3317	
107-12-0	Propionitrile	253.303	
71-43-2	Benzene	48.9782	
126-98-7	Methacrylonitrile	50.9317	
994-05-8	tert-amyl methyl Ether	50.4159	
78-83-1	Isobutyl alcohol	501.027	
107-06-2	1,2-Dichloroethane	49.3414	
75-85-4	tert-Amyl Alcohol	221.876	
107-39-1	Diisobutylene	54.8881	
79-01-6	Trichloroethene	46.6155	
108-87-2	Methyl cyclohexane	45.1665	
919-94-8	tert-Amyl Ethylether	51.8019	
74-95-3	Dibromomethane	48.5688	
78-87-5	1,2-Dichloropropane	50.8111	
75-27-4	Bromodichloromethane	50.6205	
80-62-6	Methyl methacrylate	57.1123	
123-91-1	1,4-Dioxane	1166.94	
110-75-8	2-Chloroethylvinyl ether	41.7359	
10061-01-5	cis-1,3-Dichloropropene	49.5394	
111-65-9	Octane	43.8728	
108-88-3	Toluene	47.4437	
107-14-2	Chloroacetonitrile	223.053	
79-46-9	2-Nitropropane	250.239	
513-88-2	1,1-Dichloro-2-propanone	248.188	
108-10-1	4-Methyl-2-Pentanone(MIBK)	283.448	
10061-02-6	trans-1,3-Dichloropropene	50.2922	
127-18-4	Tetrachloroethene	52.3507	
97-63-2	Ethyl methacrylate	53.9320	
79-00-5	1,1,2-Trichloroethane	46.8204	
124-48-1	Chlorodibromomethane	46.0057	
142-28-9	1,3-Dichloropropane	46.5498	
106-93-4	1,2-Dibromoethane	46.7958	
591-78-6	2-Hexanone	288.619	
544-10-5	1-Chlorohexane	47.6379	
100-41-4	Ethylbenzene	45.3035	
108-90-7	Chlorobenzene	43.8541	
630-20-6	1,1,1,2-Tetrachloroethane	48.4801	
108383/106423	mp-Xylene	92.7434	
542-75-6	1,3-Dichloropropene, Total	99.8316	

Data File: 316102629.D Page 10
Report Date: 27-Oct-2016 11:31

ALS Environmental Services

TARGET COMPOUNDS

Client Name: Client SDG: 3161026.b
Lab Smp Id: 1801
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ISTD
Analysis Type: VOA Level: LOW
Data Type: MS DATA Operator: DD
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
95-47-6	o-Xylene	48.7190	
100-42-5	Styrene	50.9154	
75-25-2	Bromoform	37.0993	
98-82-8	Isopropylbenzene	48.7371	
1330-20-7	TOTAL XYLENES	141.462	
103-65-1	n-Propylbenzene	48.1138	
108-86-1	Bromobenzene	44.9444	
79-34-5	1,1,2,2-Tetrachloroethane	48.6335	
108-67-8	1,3,5-Trimethylbenzene	50.0751	
95-49-8	o-Chlorotoluene	48.8729	
96-18-4	1,2,3-Trichloropropane	46.1543	
110-57-6	trans-1,4-Dichloro-2-butene	42.0557	
106-43-4	p-Chlorotoluene	49.0521	
98-06-6	tert-Butylbenzene	46.4496	
76-01-7	Pentachloroethane	45.9660	
95-63-6	1,2,4-Trimethylbenzene	50.8889	
135-98-8	sec-Butylbenzene	48.6096	
99-87-6	p-Isopropyltoluene	48.3705	
541-73-1	1,3-Dichlorobenzene	48.4031	
106-46-7	1,4-Dichlorobenzene	48.3310	
104-51-8	n-Butylbenzene	46.3889	
100-44-7	Benzyl Chloride	31.6476	
67-72-1	Hexachloroethane	43.4547	
95-50-1	1,2-Dichlorobenzene	48.3144	
96-12-8	1,2-Dibromo-3-chloropropane	47.0975	
98-95-3	Nitrobenzene	259.114	
87-68-3	Hexachlorobutadiene	44.8910	
120-82-1	1,2,4-Trichlorobenzene	42.4395	
91-20-3	Naphthalene	42.8843	
87-61-6	1,2,3-Trichlorobenzene	43.9665	
1868-53-7	Dibromofluoromethane	45.0079	
17060-07-0	1,2-Dichloroethane-d4	51.4219	
2037-26-5	Toluene-d8	47.3647	
460-00-4	4-Bromofluorobenzene	46.3454	

Data File: 316102629.D Page 11
Report Date: 27-Oct-2016 11:31

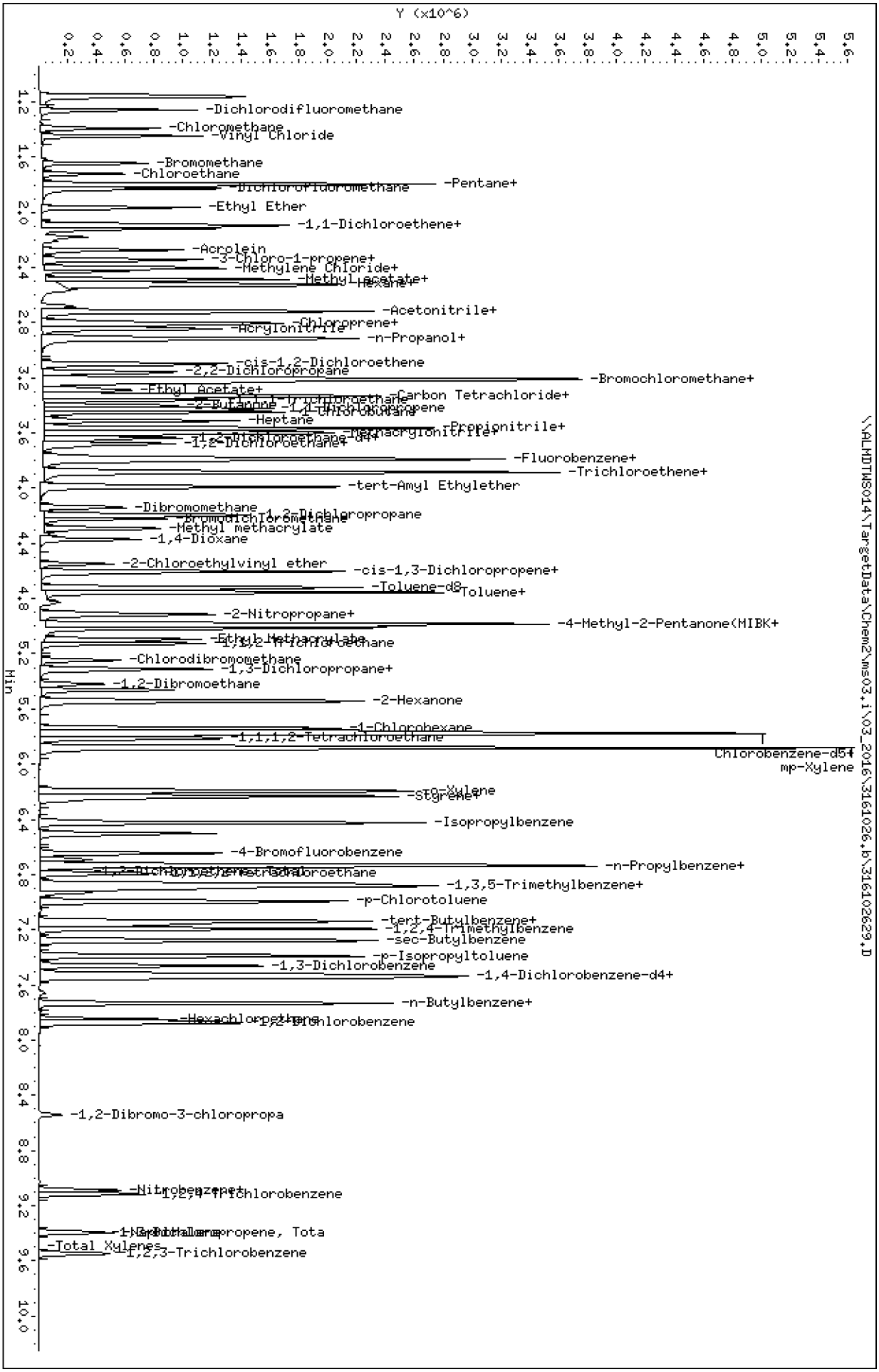
ALS Environmental Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Client SDG: 3161026.b
Lab Smp Id: 1801
Operator : DD Sample Date:
Sample Location: Sample Point:
Sample Matrix: WATER Date Received:
Analysis Type: VOA Level: LOW
Inj Date: 26-OCT-2016 19:41

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	1.161	11.2733	_J__
2. 142-28-9	Propane, 1,3-dichloro-	5.313	5.42695	NJ__
3. 123-86-4	Acetic acid, butyl ester	5.460	4.04393	NJ__
4. 628-63-7	Acetic acid, pentyl ester	6.502	5.00193	NJ__


Y (x10^6)
Min
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Pentane+
-Ethyl Ether
-1,1-Dichloroethene+
-Acrolein
-3-Chloro-1-propene+
-Methylene Chloride+
-Hexane+
-Acetonitrile+
-Chloroprene+
-Acrylonitrile
-n-Propanol+
-cis-1,2-Dichloroethene
-2,2-Dichloropropane
-Bromochloromethane+
-Ethyl Acetate+
-Carbon Tetrachloride+
-Heptane
-Propionitrile+
-Fluorobenzene+
-Trichloroethene+
-tert-Amyl Ethylether
-Dibromomethane
-1,4-Dioxane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene+
-Toluene-d8
-Toluene+
-2-Nitropropane+
-4-Methyl-2-Pentanone(MIBK+
-Chlorodibromomethane
-1,3-Dichloropropane+
-1,2-Dibromoethane
-2-Hexanone
-1-Chlorohexane
-1,1,1,2-Tetrachloroethane
Chlorobenzene-d5+
mp-Xylene
-Isopropylbenzene
-4-Bromofluorobenzene
-n-Propylbenzene+
-1,3,5-Trimethylbenzene+
-p-Chlorotoluene
-tert-Butylbenzene+
-1,2,4-Trimethylbenzene
-sec-Butylbenzene
-p-Isopropyltoluene
-1,3-Dichlorobenzene
-1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-chloropropa
-Nitrobenzene+
-Total Xylenes
1,2,3-Trichlorobenzene
Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3161026629.D
Date : 26-OCT-2016 19:41
Client ID:
Sample Info: 1801;;1;2;4;;;
Purge Volume: 5.0
Column phase: DB-VRX
Instrument: ms03.i
Operator: DD
Column diameter: 0.25
\\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3161026629.D
Page 12

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 13

Date : 26-OCT-2016 19:41

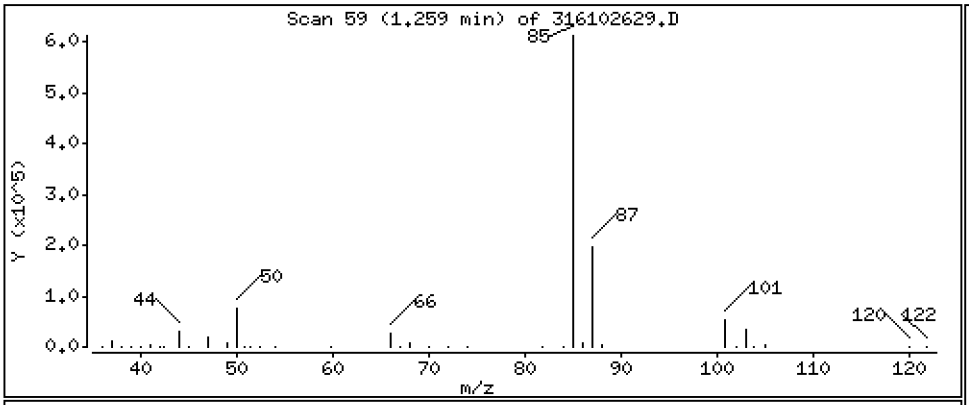
Client ID: Instrument: ms03.i

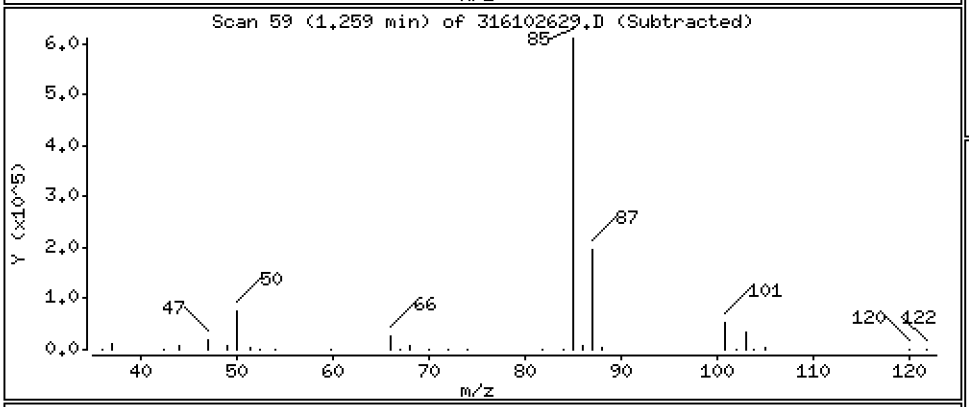
Sample Info: 1801;;1;2;4;;;

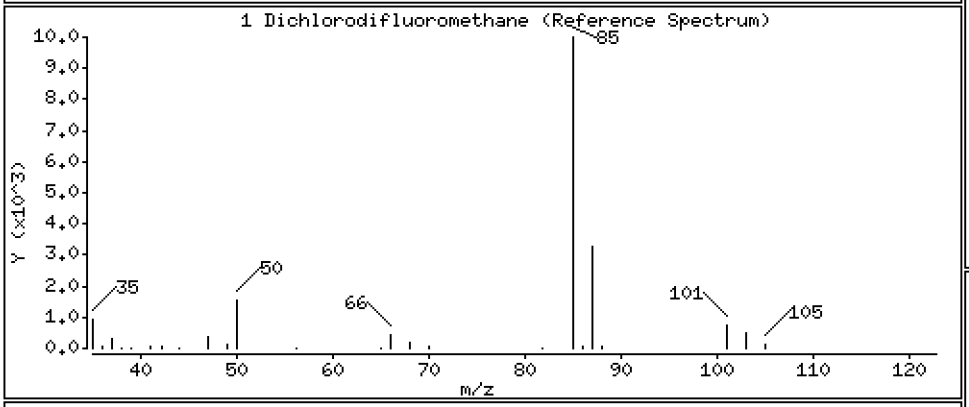
Purge Volume: 5.0 Operator: DD

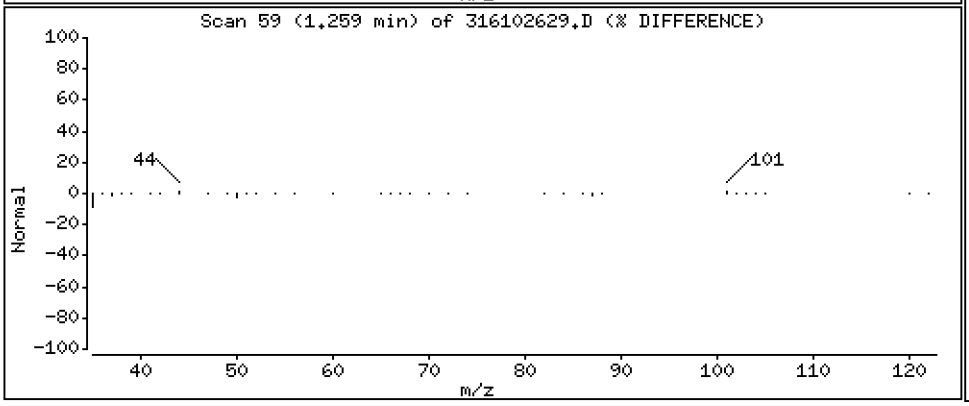
Column phase: DB-VRX Column diameter: 0.25

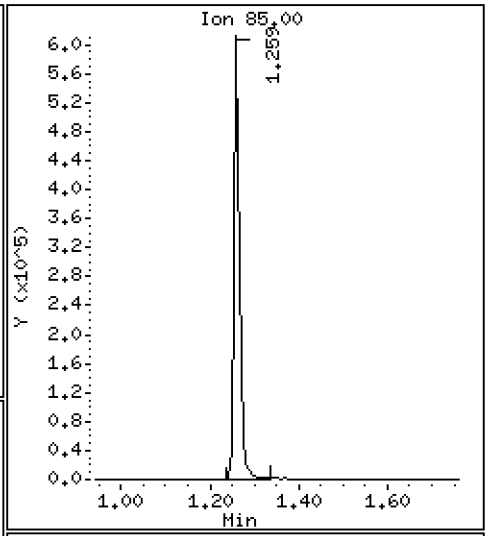
1 Dichlorodifluoromethane Concentration: 50.3536 ug/L

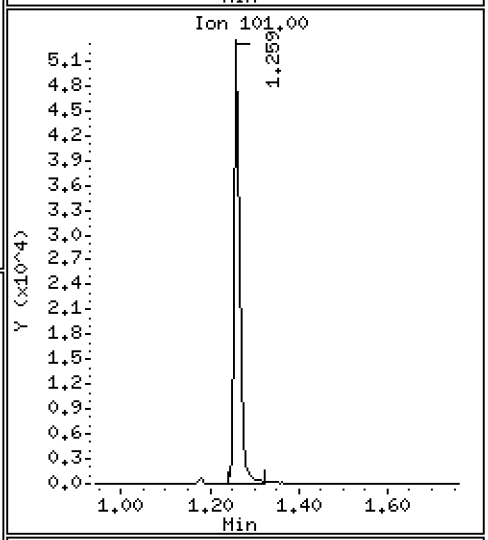


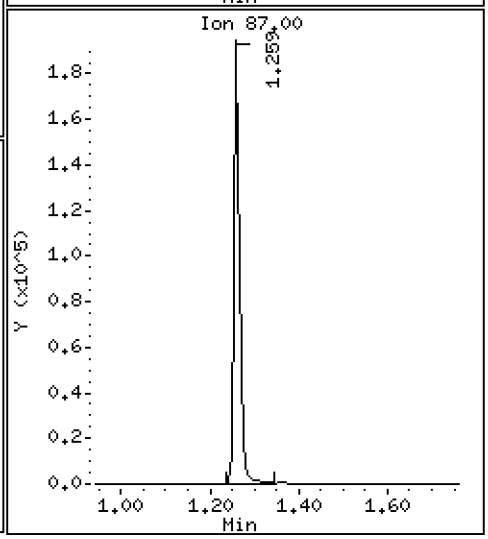












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 14

Date : 26-OCT-2016 19:41

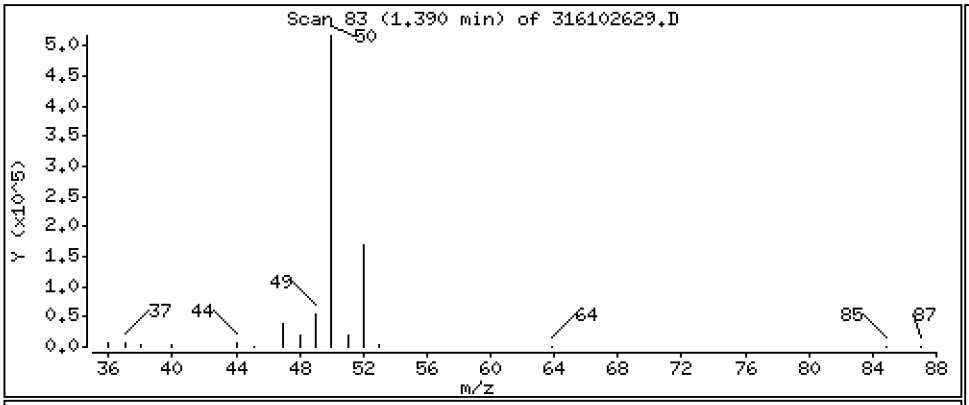
Client ID: Instrument: ms03.i

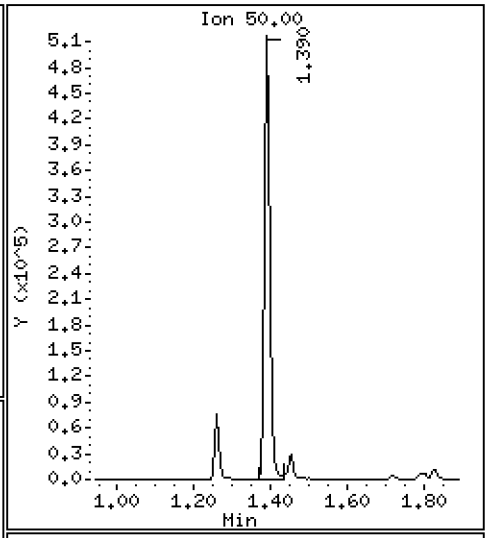
Sample Info: 1801;;1;2;4;;;

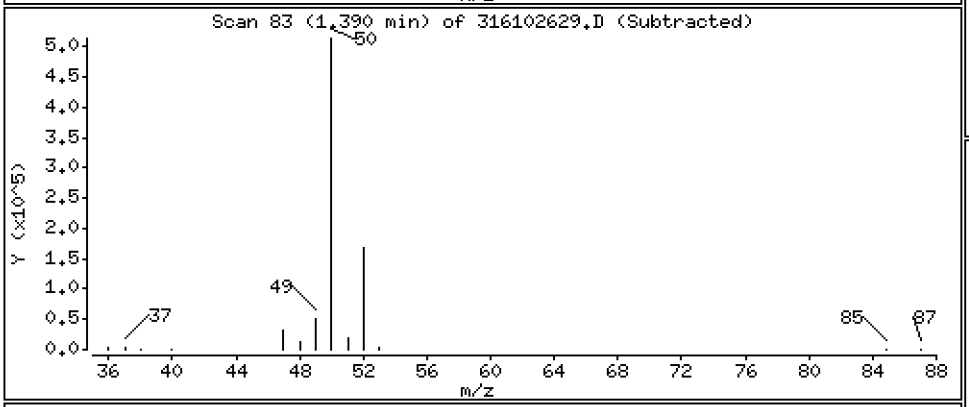
Purge Volume: 5.0 Operator: DD

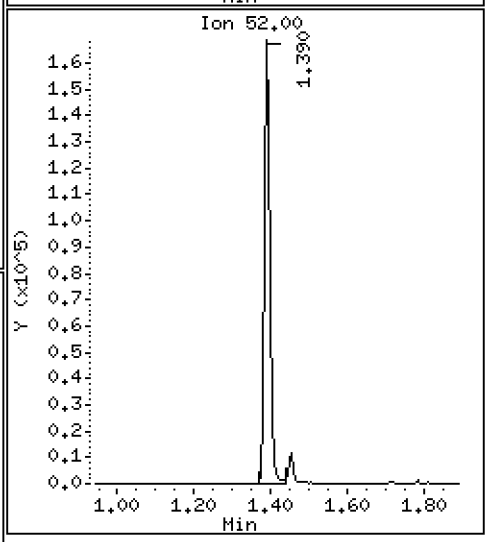
Column phase: DB-VRX Column diameter: 0.25

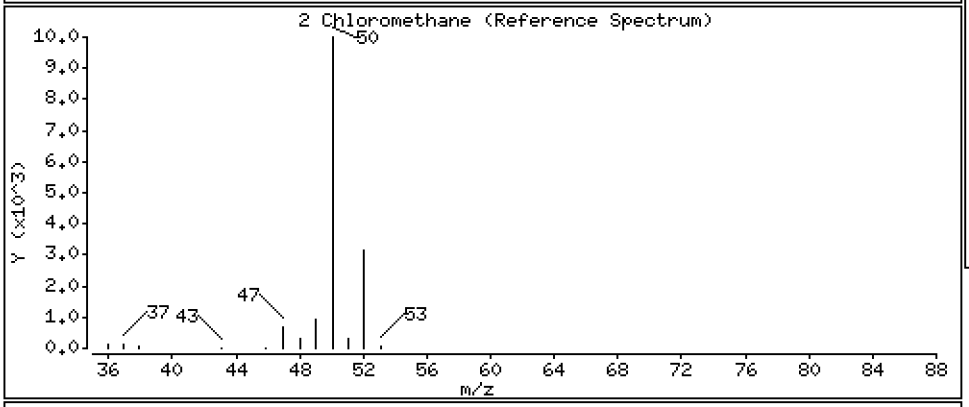
2 Chloromethane Concentration: 55.7655 ug/L

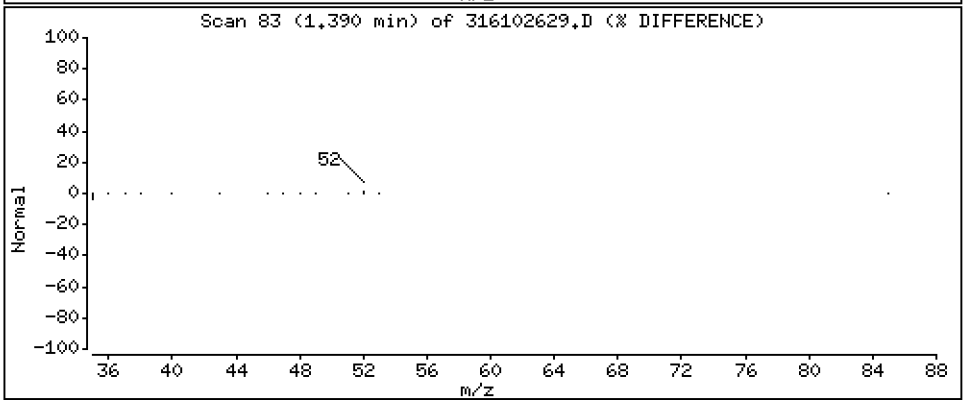












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 15

Date : 26-OCT-2016 19:41

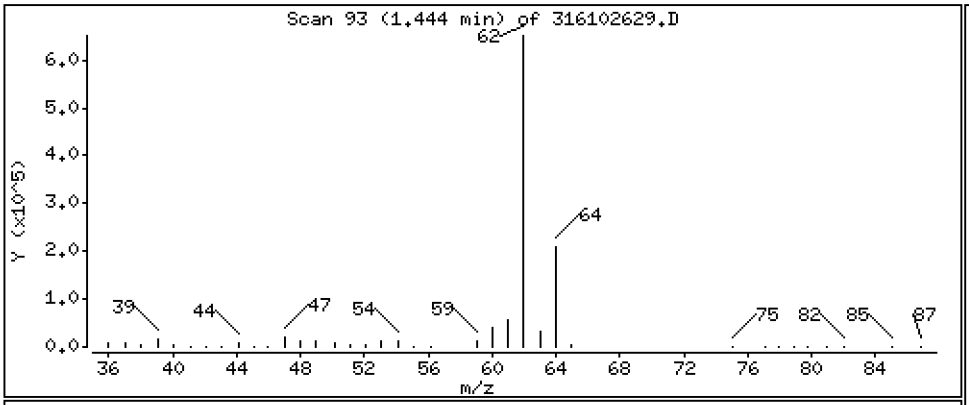
Client ID: Instrument: ms03.i

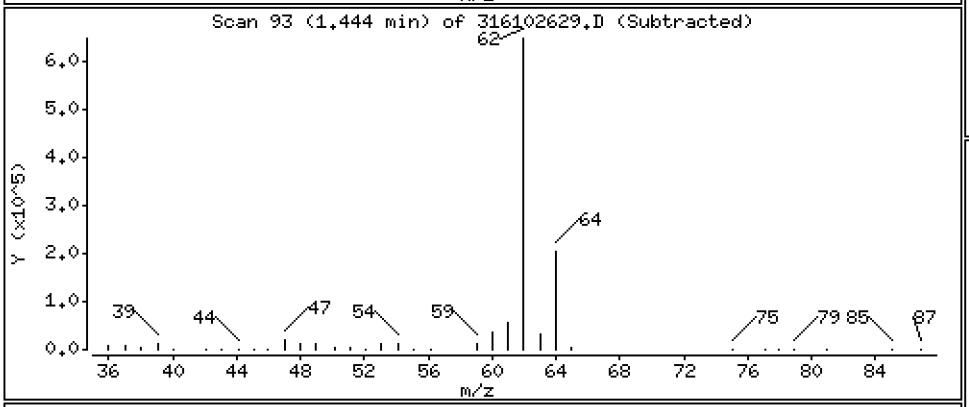
Sample Info: 1801;;1;2;4;;;

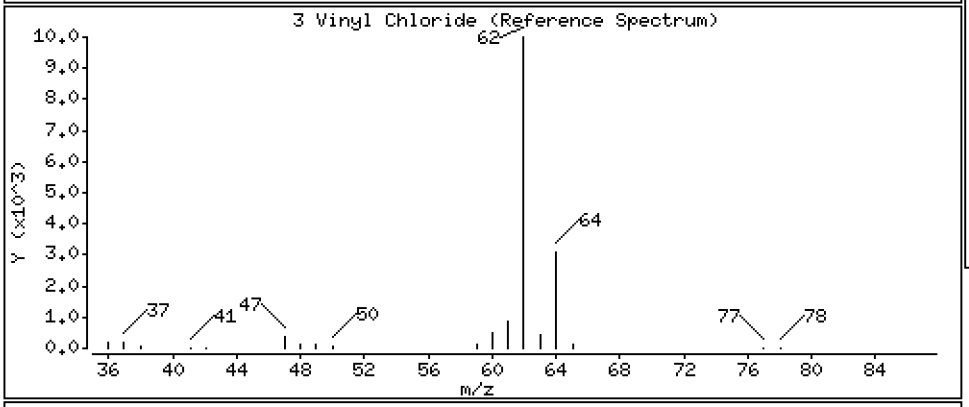
Purge Volume: 5.0 Operator: DD

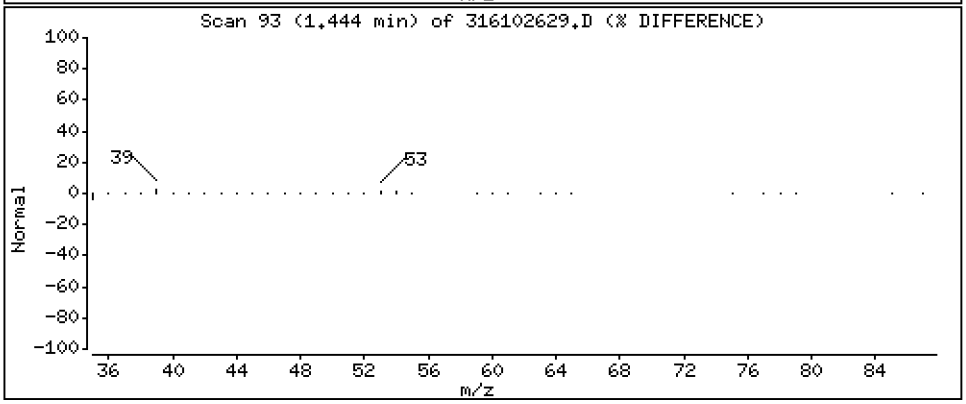
Column phase: DB-VRX Column diameter: 0.25

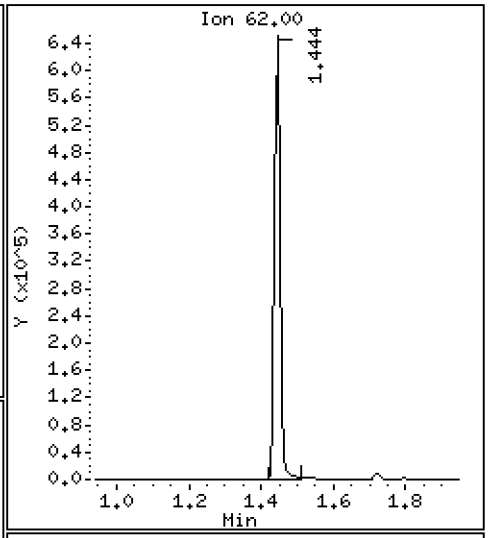
3 Vinyl Chloride Concentration: 52.6439 ug/L

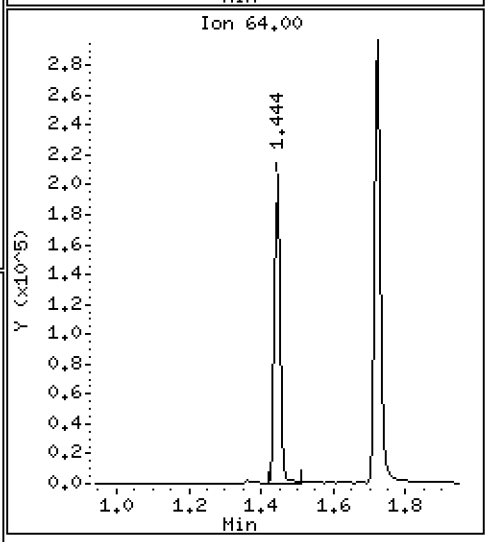












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 16

Date : 26-OCT-2016 19:41

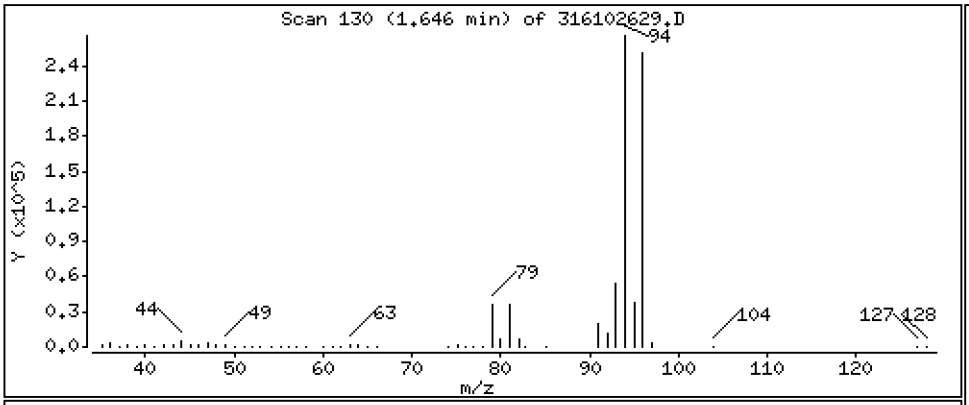
Client ID: Instrument: ms03.i

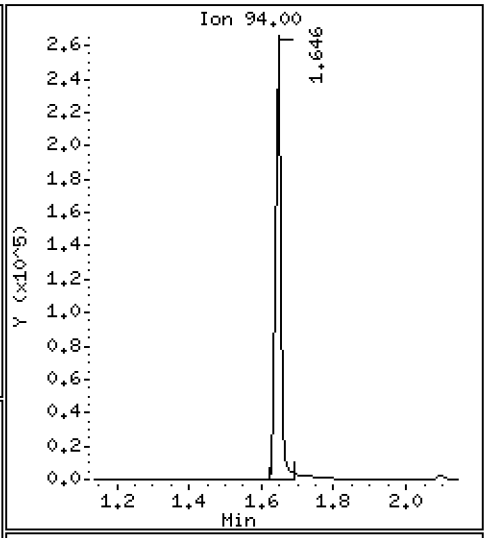
Sample Info: 1801;;1;2;4;;;

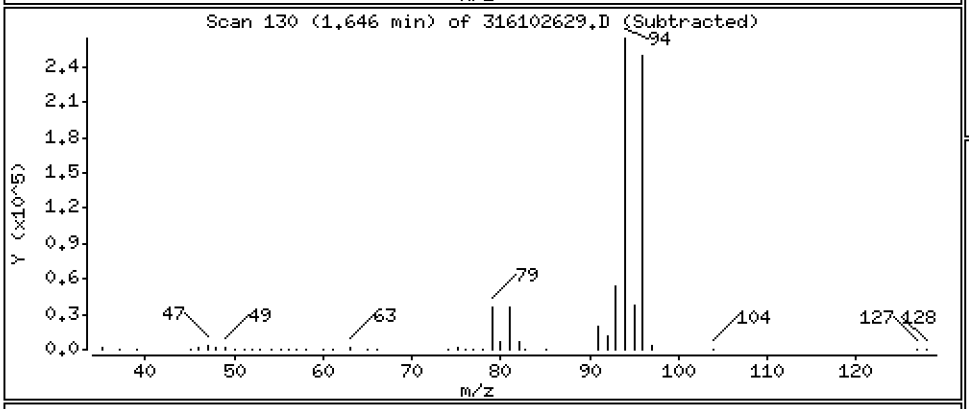
Purge Volume: 5.0 Operator: DD

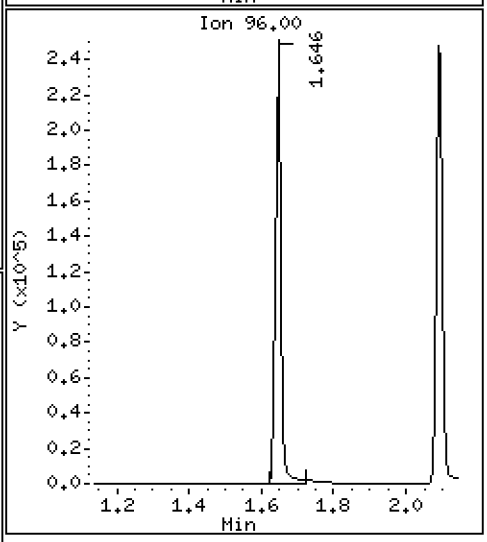
Column phase: DB-VRX Column diameter: 0.25

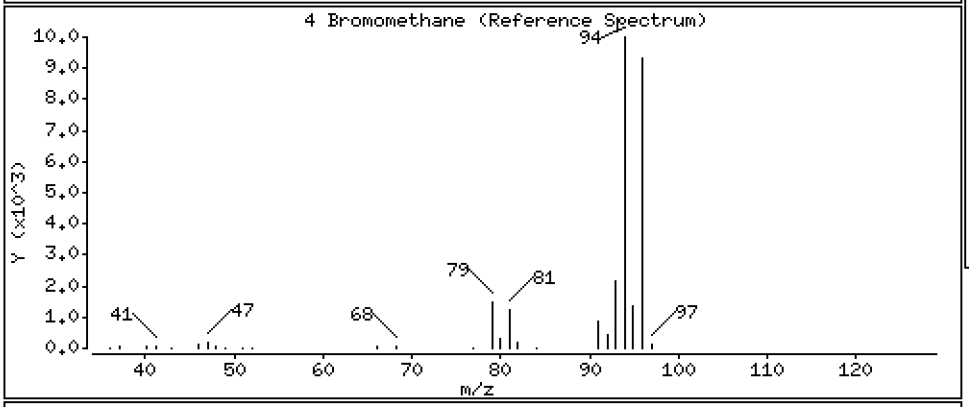
4 Bromomethane Concentration: 52.5919 ug/L

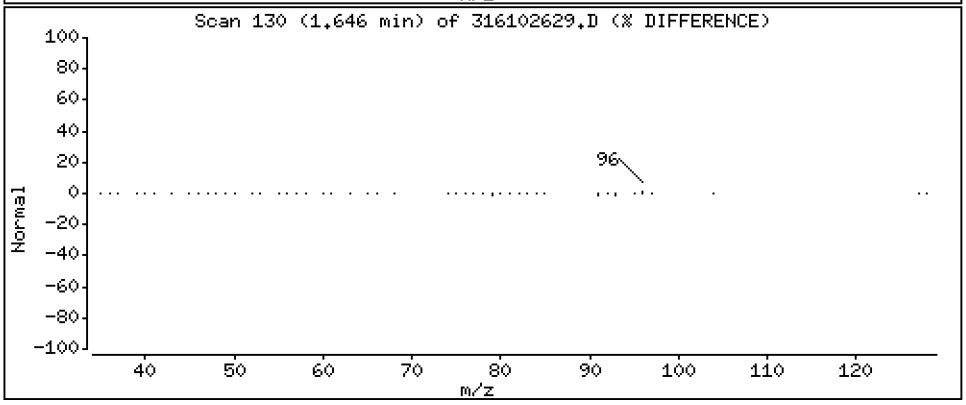












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 17

Date : 26-OCT-2016 19:41

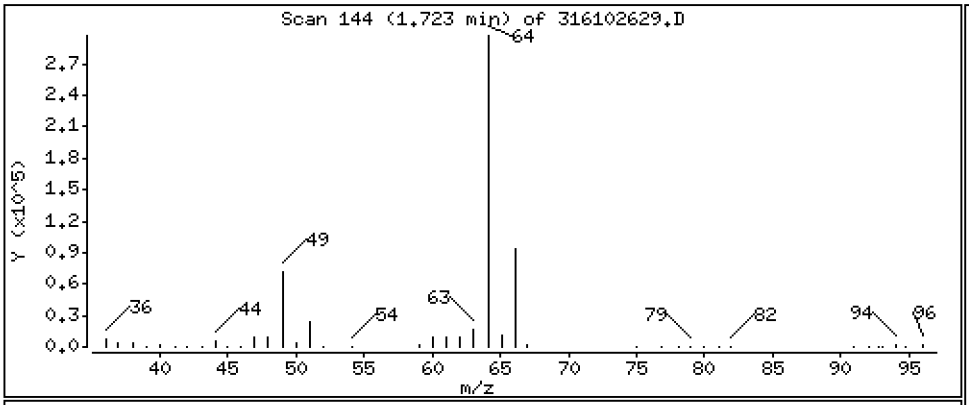
Client ID: Instrument: ms03.i

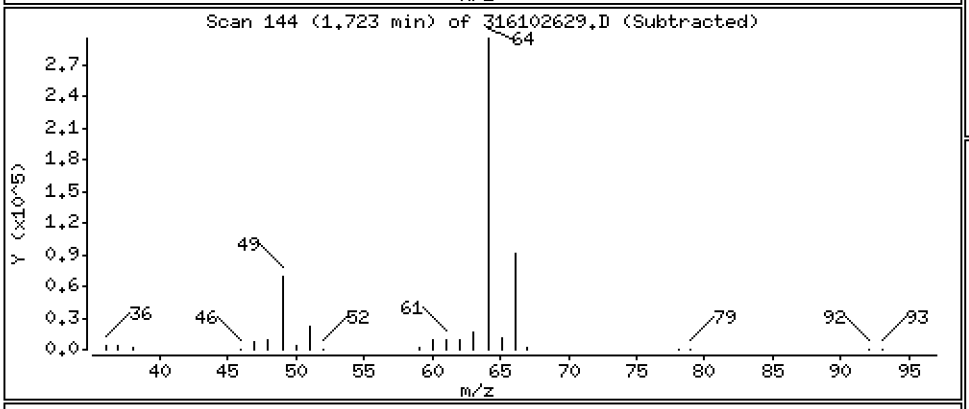
Sample Info: 1801;;1;2;4;;;

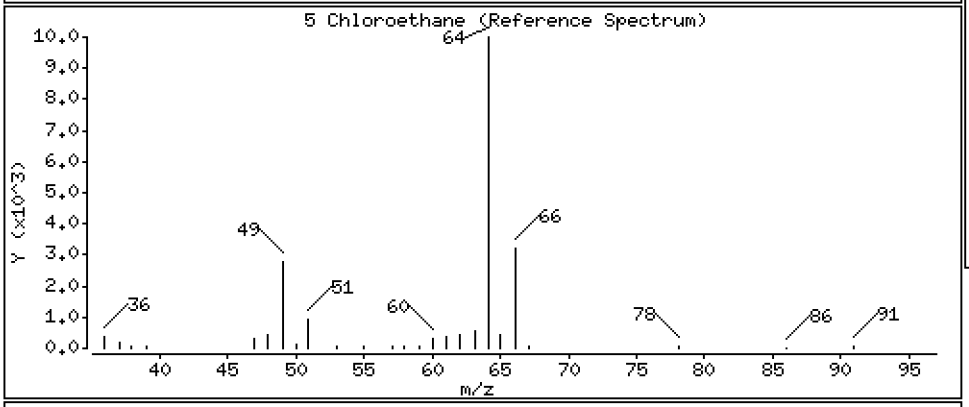
Purge Volume: 5.0 Operator: DD

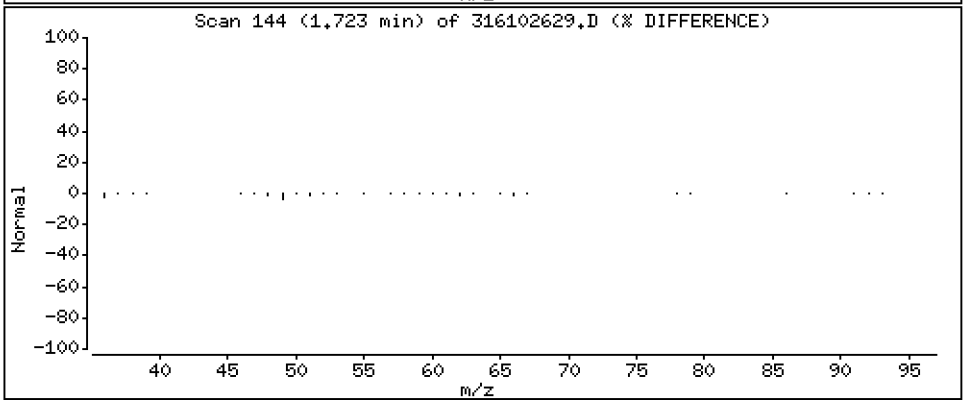
Column phase: DB-VRX Column diameter: 0.25

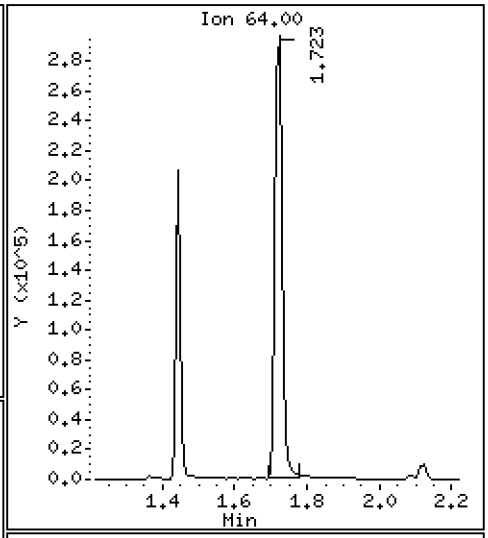
5 Chloroethane Concentration: 51.0262 ug/L

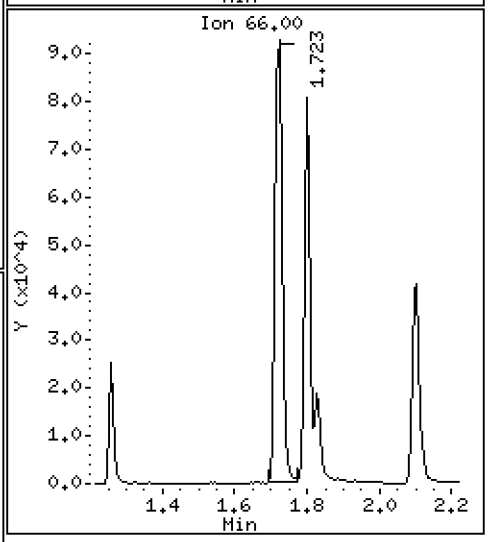












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 18

Date : 26-OCT-2016 19:41

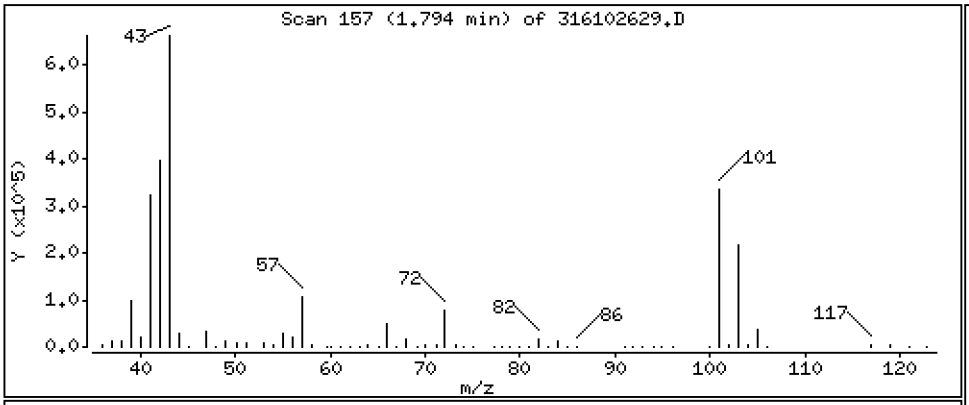
Client ID: Instrument: ms03.i

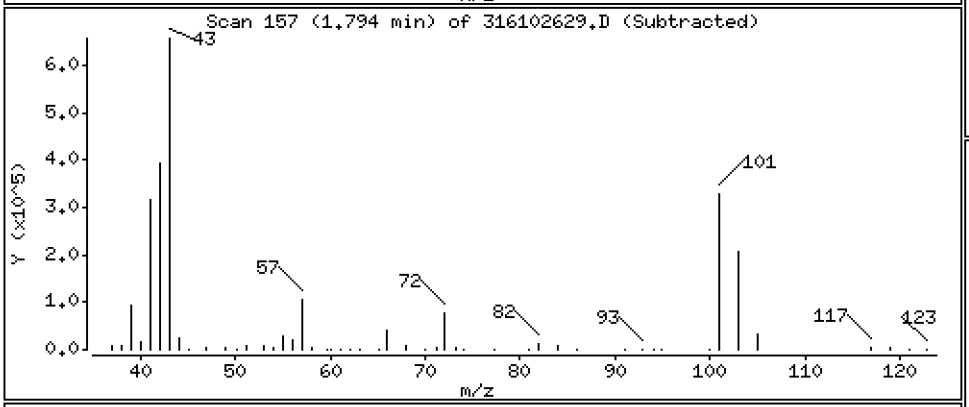
Sample Info: 1801;;1;2;4;;;

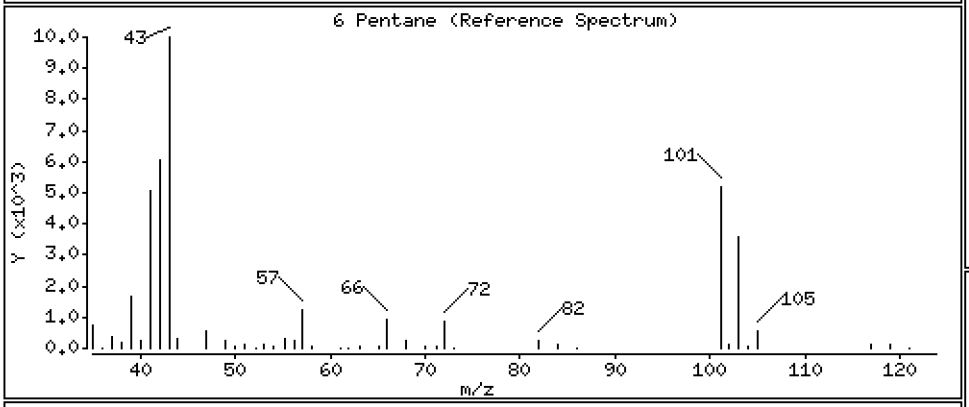
Purge Volume: 5.0 Operator: DD

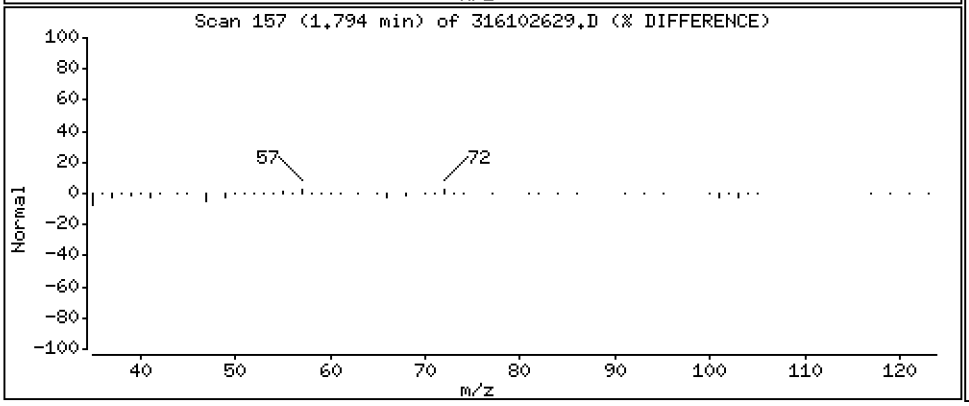
Column phase: DB-VRX Column diameter: 0.25

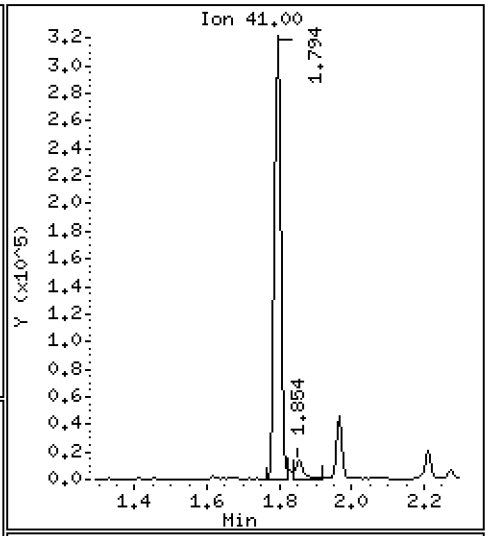
6 Pentane Concentration: 55.8162 ug/L

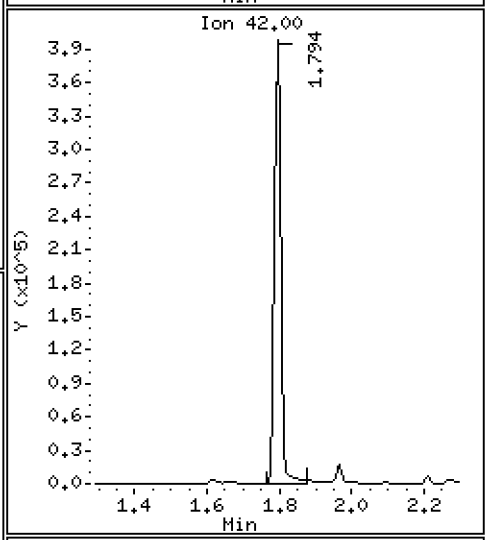


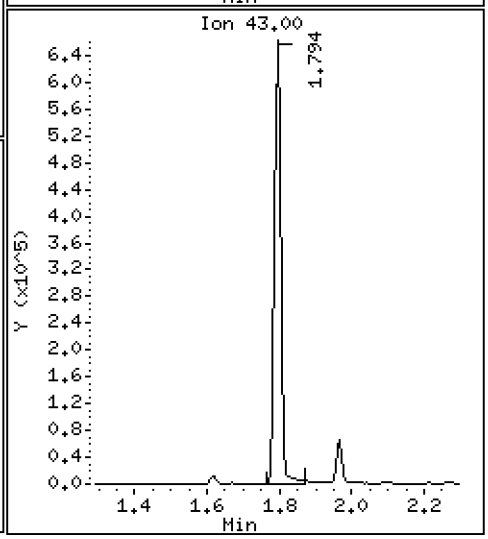












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 19

Date : 26-OCT-2016 19:41

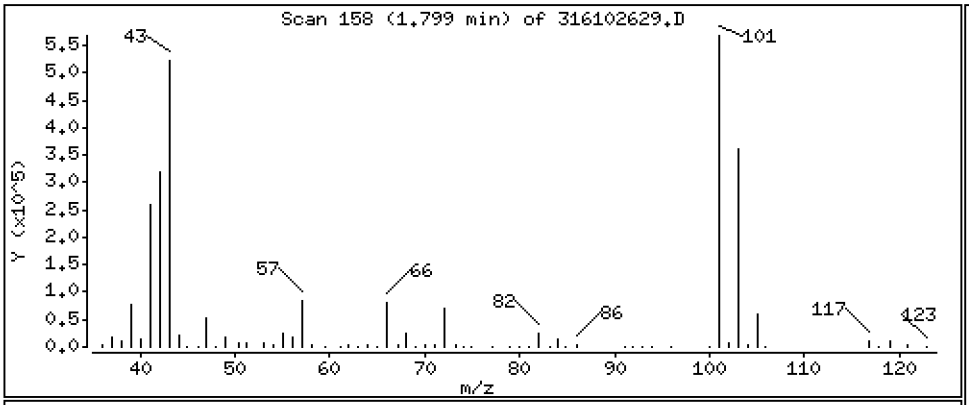
Client ID: Instrument: ms03.i

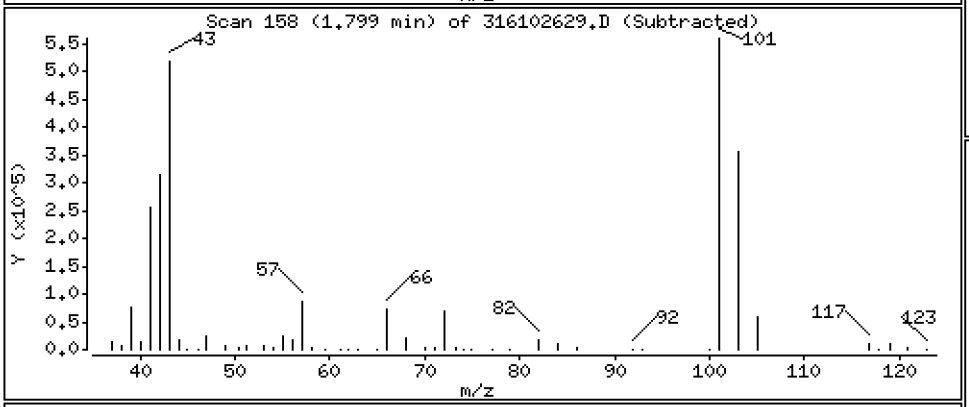
Sample Info: 1801;;1;2;4;;;

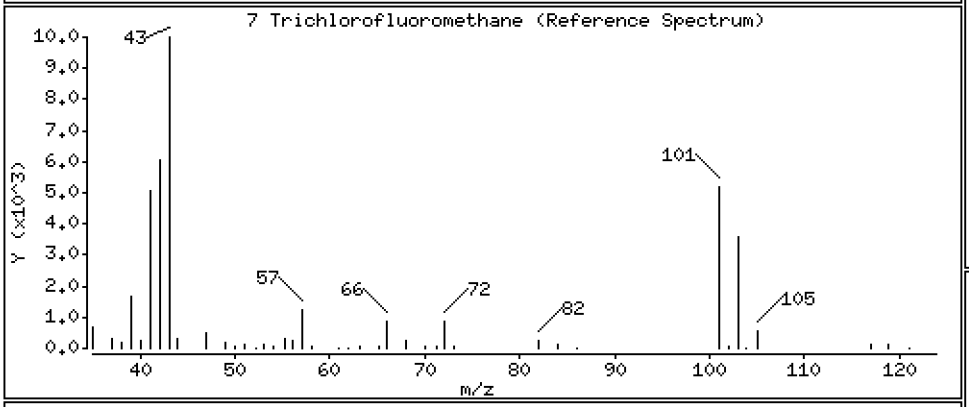
Purge Volume: 5.0 Operator: DD

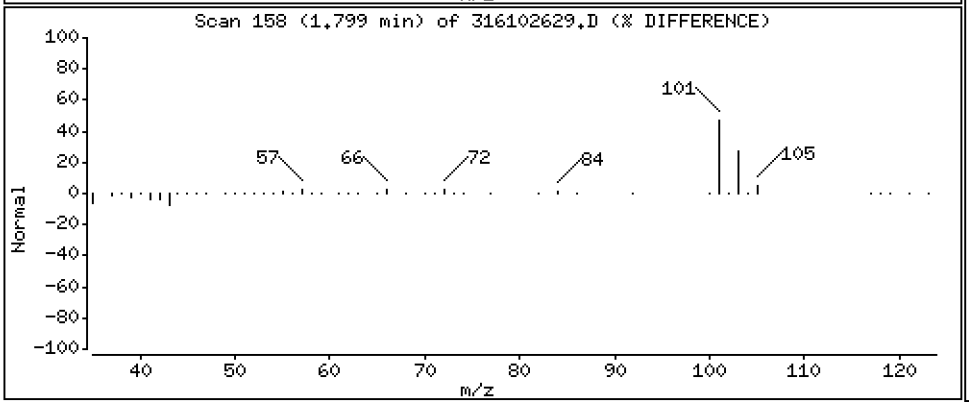
Column phase: DB-VRX Column diameter: 0.25

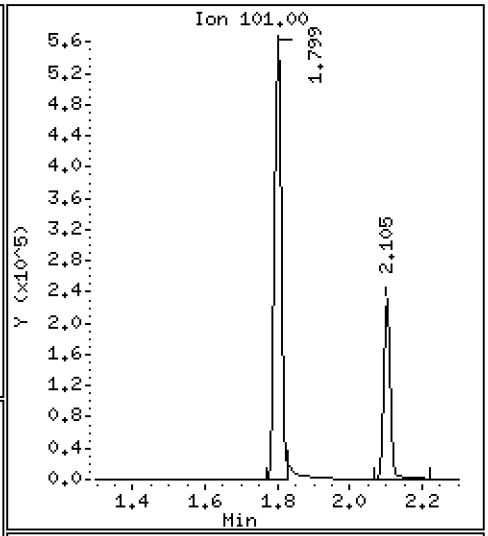
7 Trichlorofluoromethane Concentration: 50.6457 ug/L

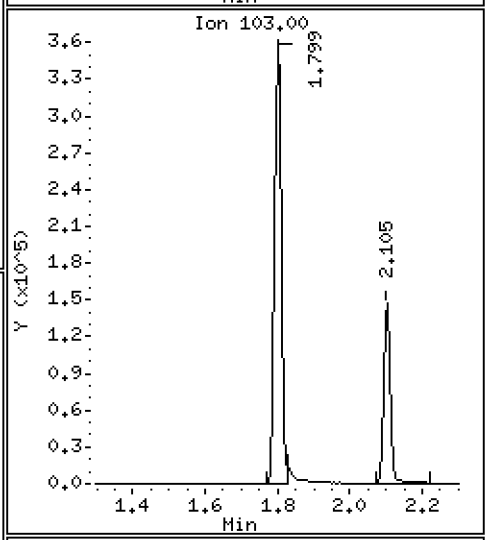


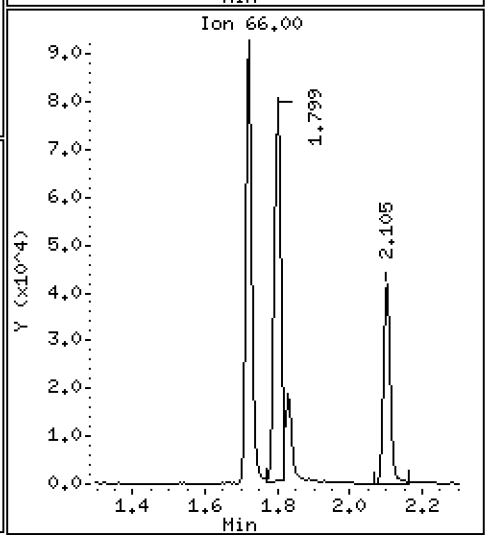












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 20

Date : 26-OCT-2016 19:41

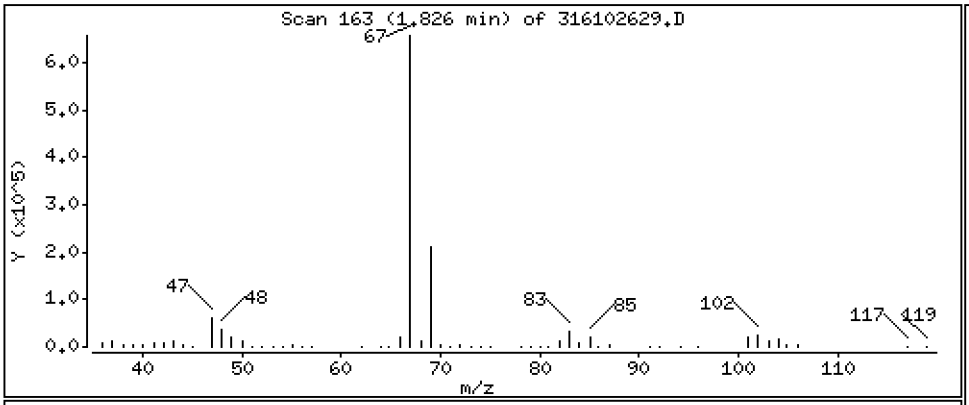
Client ID: Instrument: ms03.i

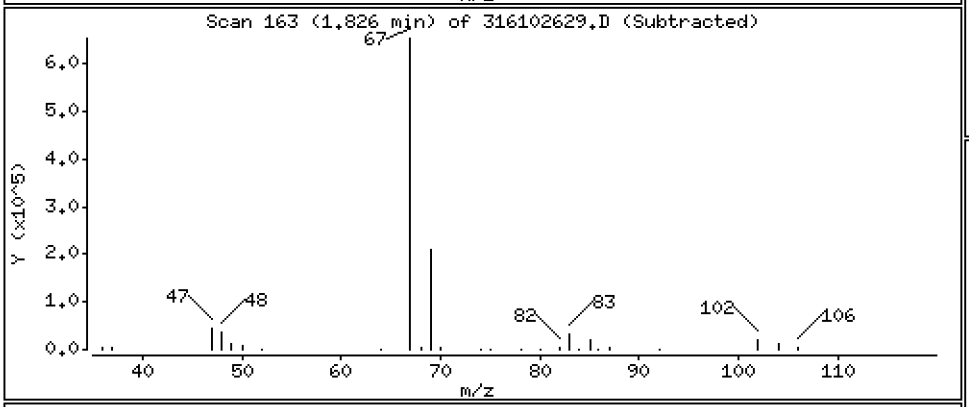
Sample Info: 1801;;1;2;4;;;

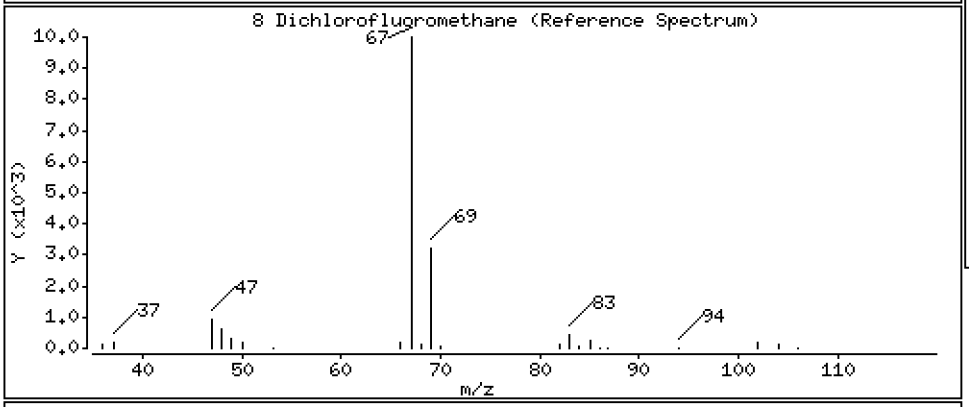
Purge Volume: 5.0 Operator: DD

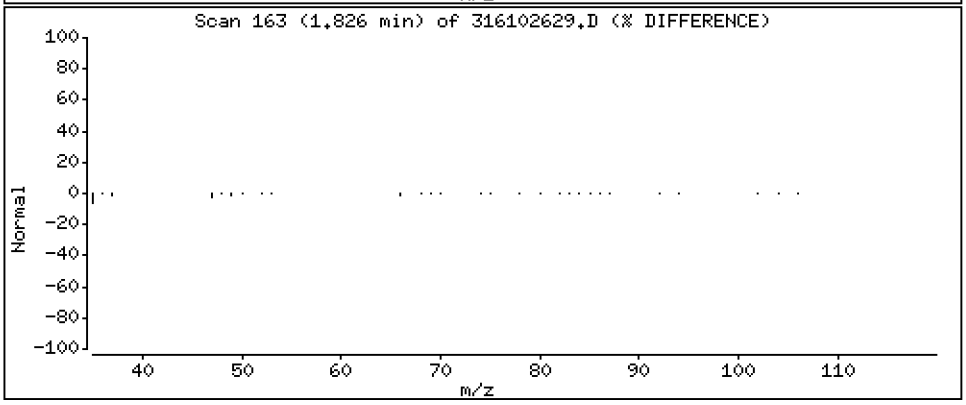
Column phase: DB-VRX Column diameter: 0.25

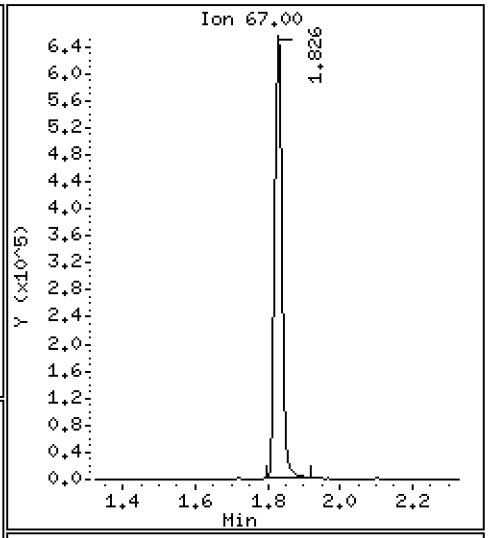
8 Dichlorofluoromethane Concentration: 47.9184 ug/L

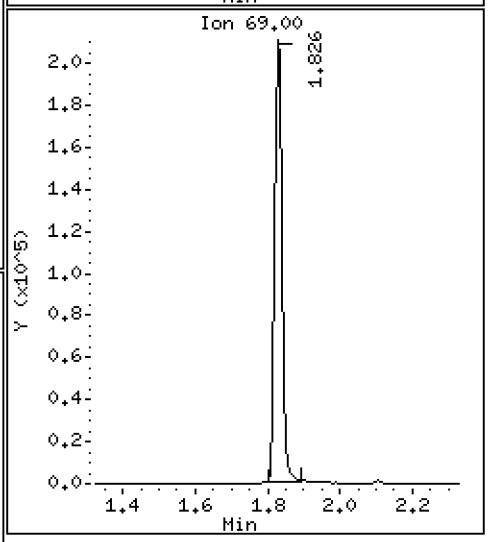












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 21

Date : 26-OCT-2016 19:41

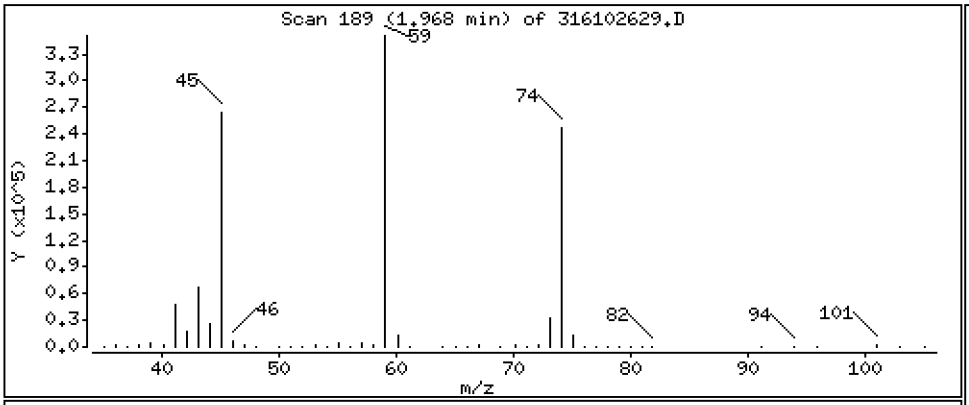
Client ID: Instrument: ms03.i

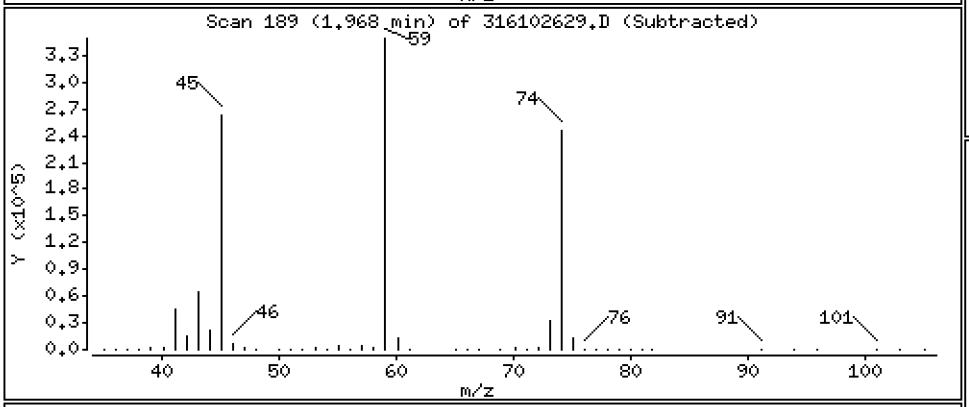
Sample Info: 1801;;1;2;4;;;

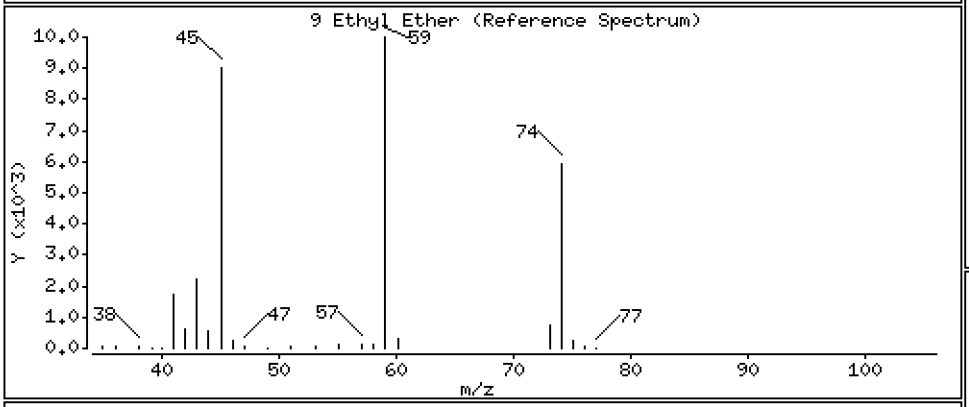
Purge Volume: 5.0 Operator: DD

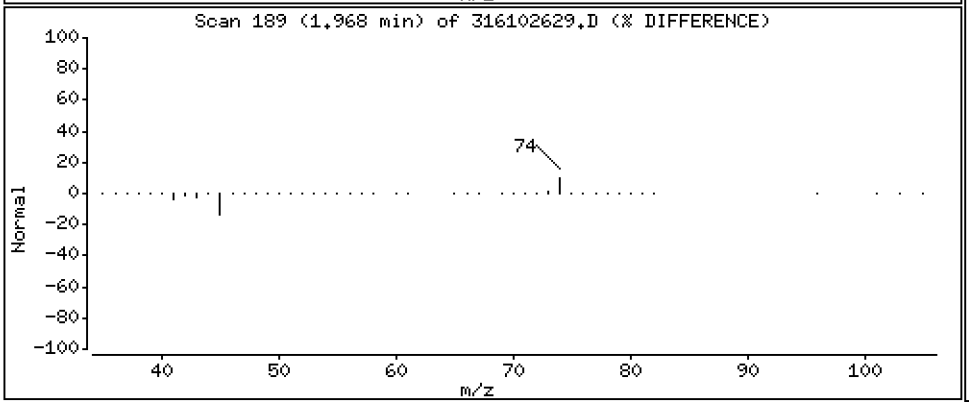
Column phase: DB-VRX Column diameter: 0.25

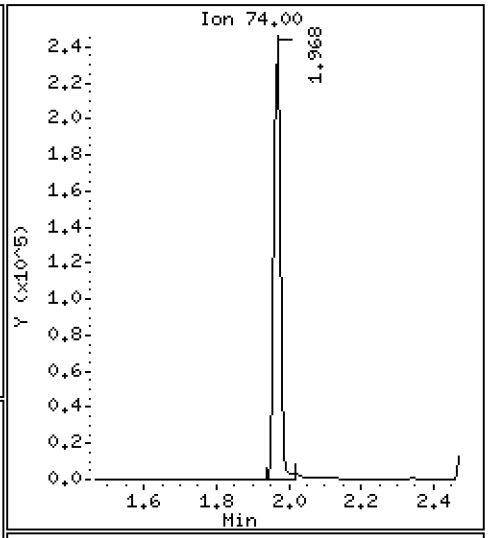
9 Ethyl Ether Concentration: 45.7831 ug/L

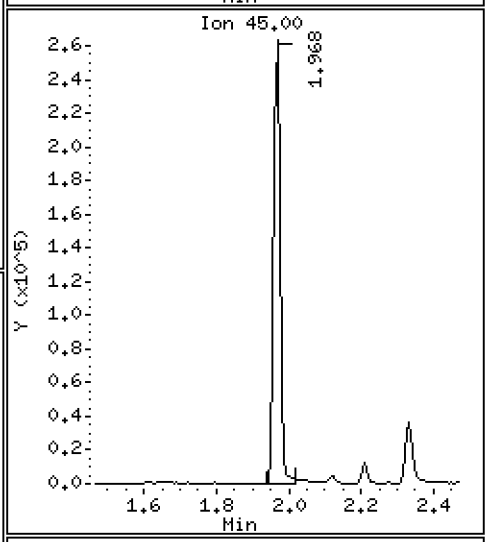


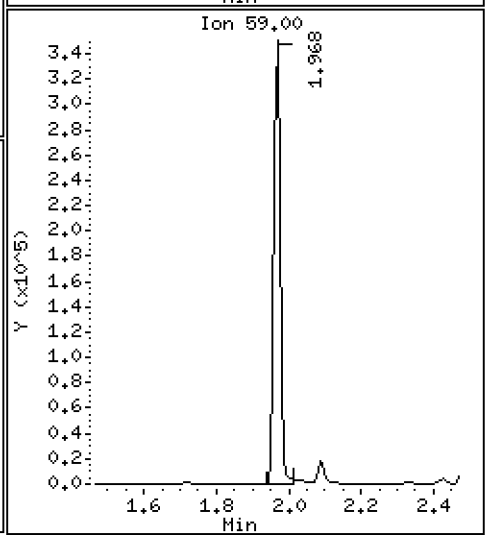












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 22

Date : 26-OCT-2016 19:41

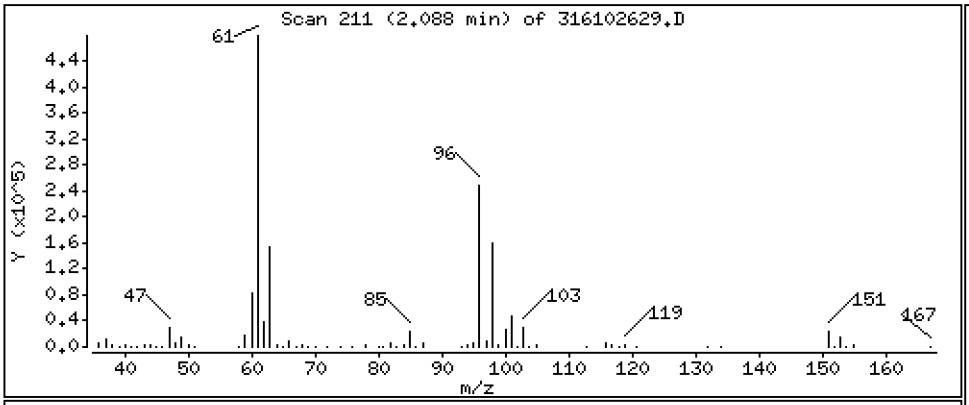
Client ID: Instrument: ms03.i

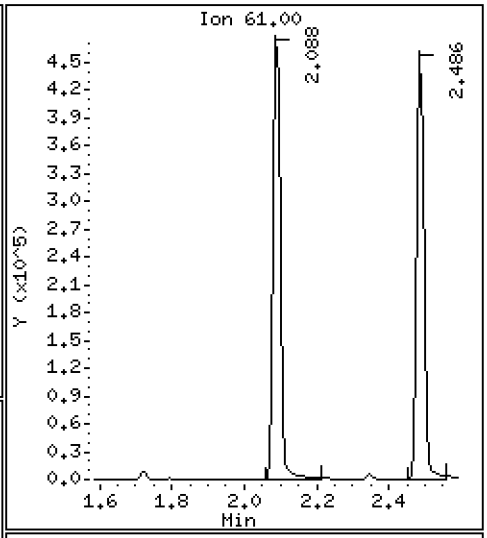
Sample Info: 1801;;1;2;4;;;

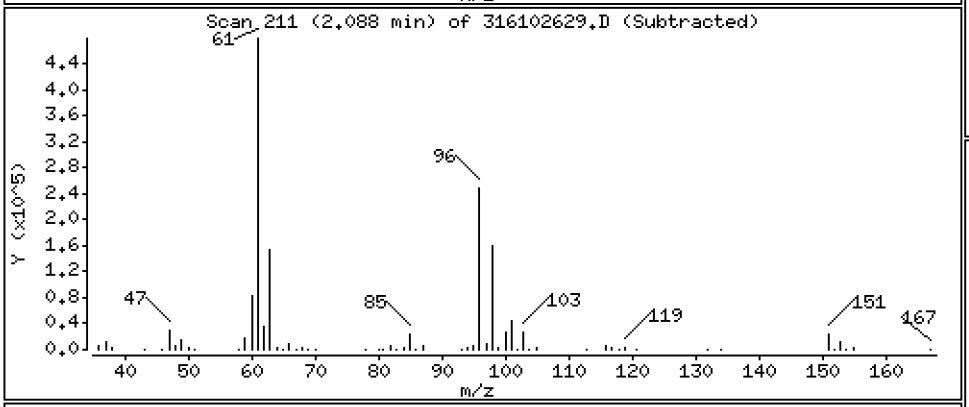
Purge Volume: 5.0 Operator: DD

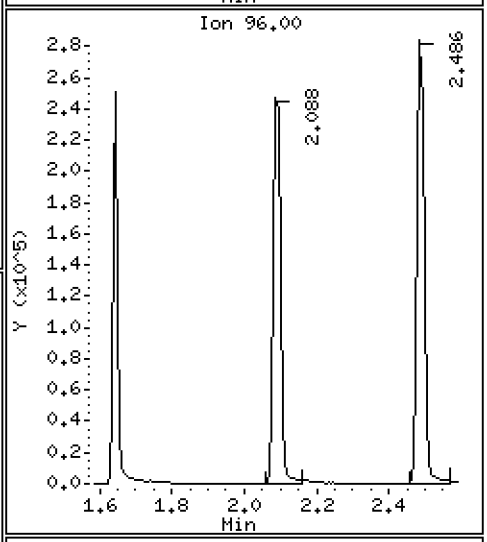
Column phase: DB-VRX Column diameter: 0.25

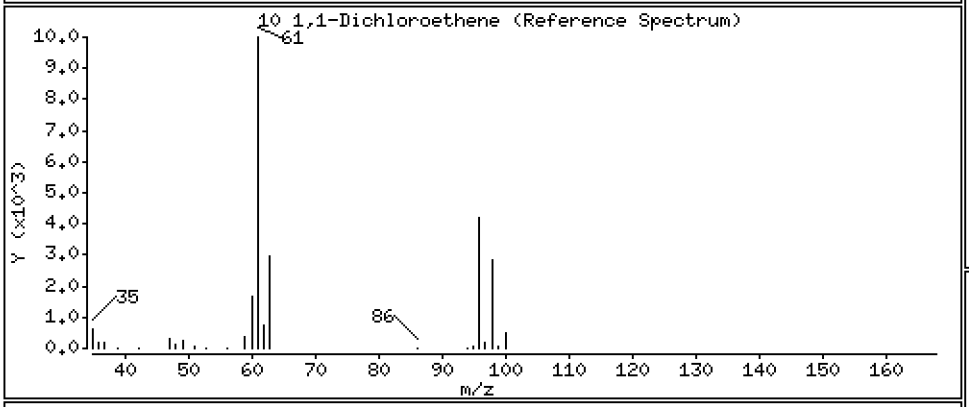
10 1,1-Dichloroethene Concentration: 49.6391 ug/L

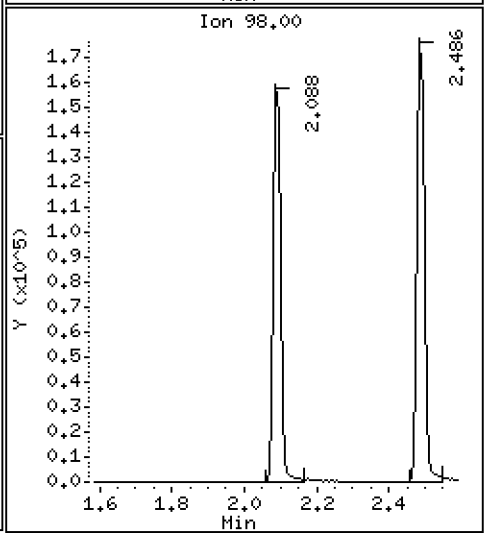


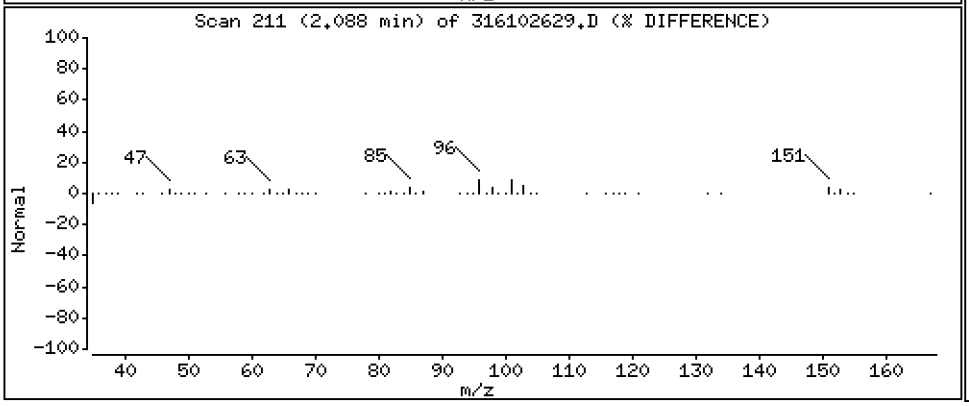












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 23

Date : 26-OCT-2016 19:41

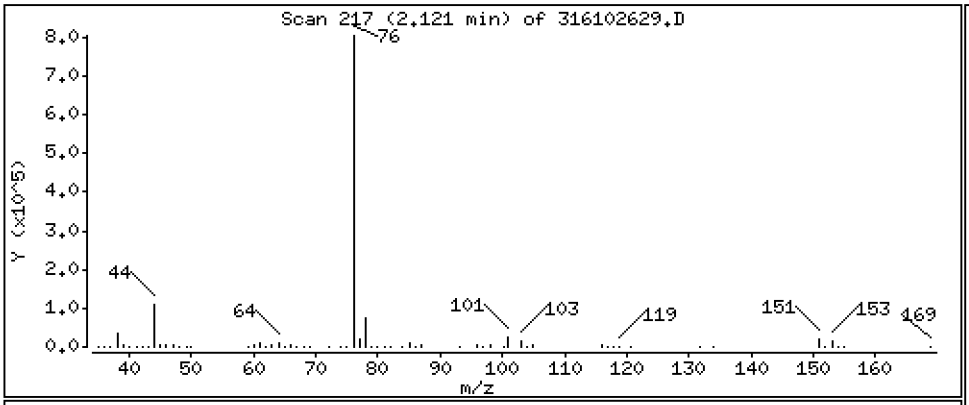
Client ID: Instrument: ms03.i

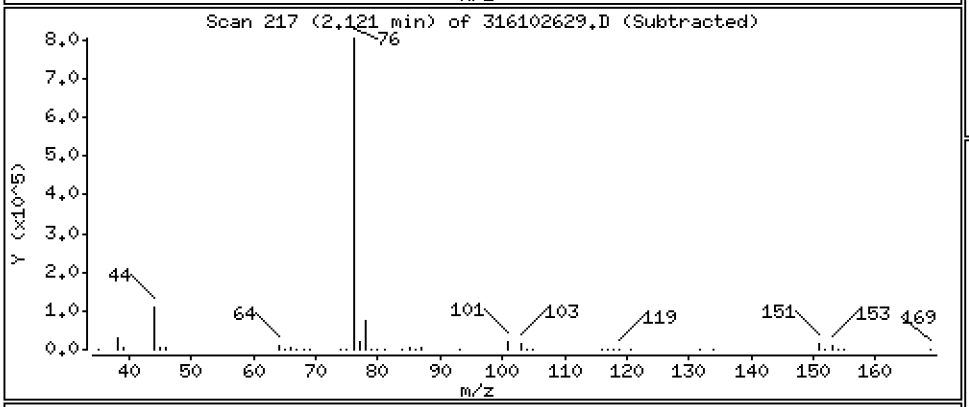
Sample Info: 1801;;1;2;4;;;

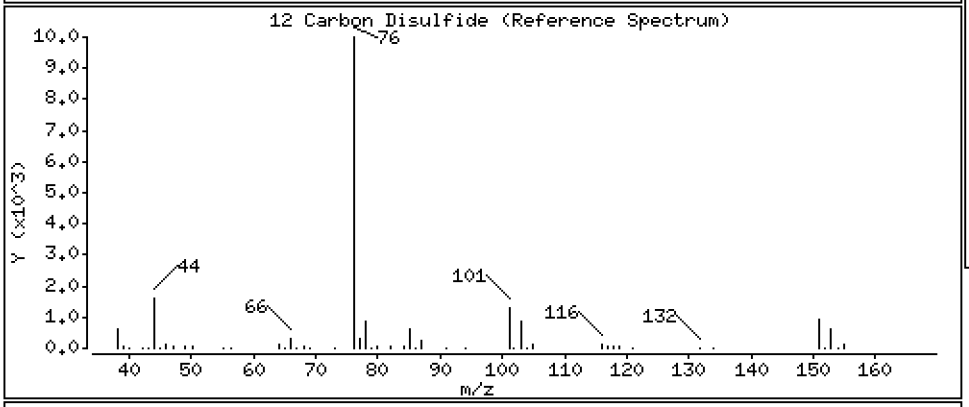
Purge Volume: 5.0 Operator: DD

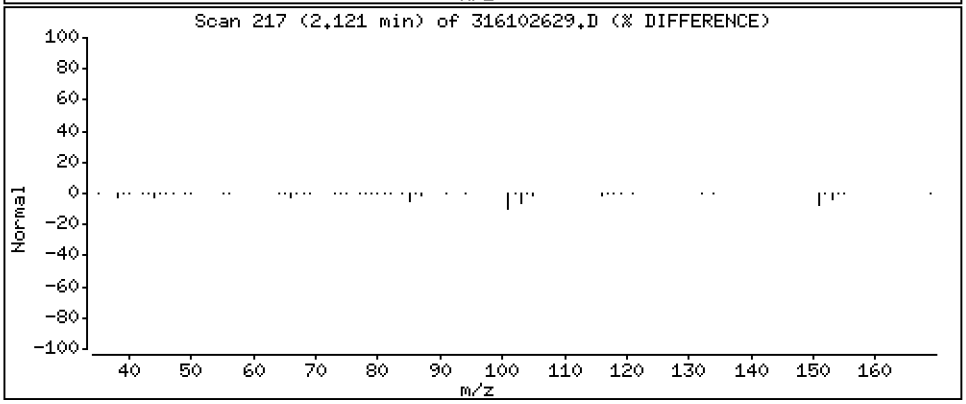
Column phase: DB-VRX Column diameter: 0.25

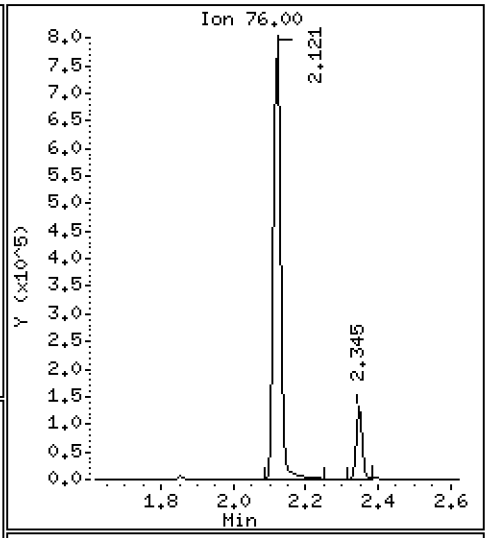
12 Carbon Disulfide Concentration: 47.5291 ug/L

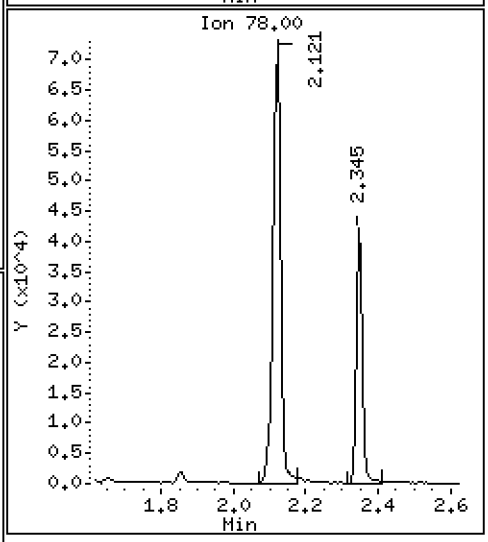












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 24

Date : 26-OCT-2016 19:41

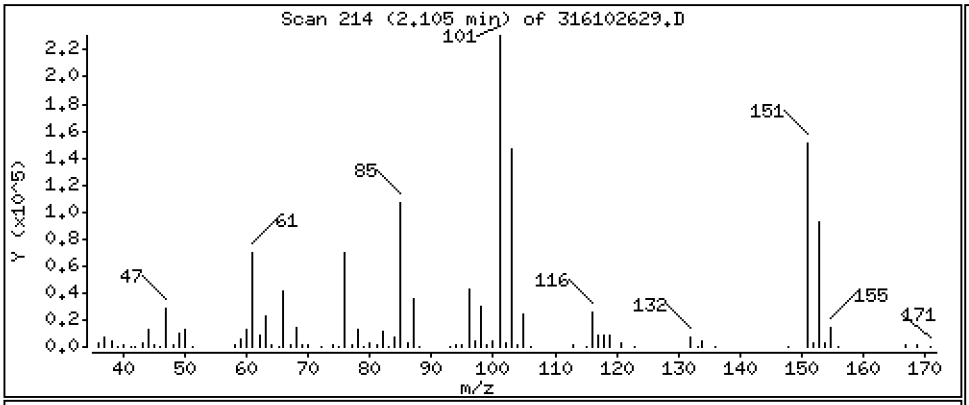
Client ID: Instrument: ms03.i

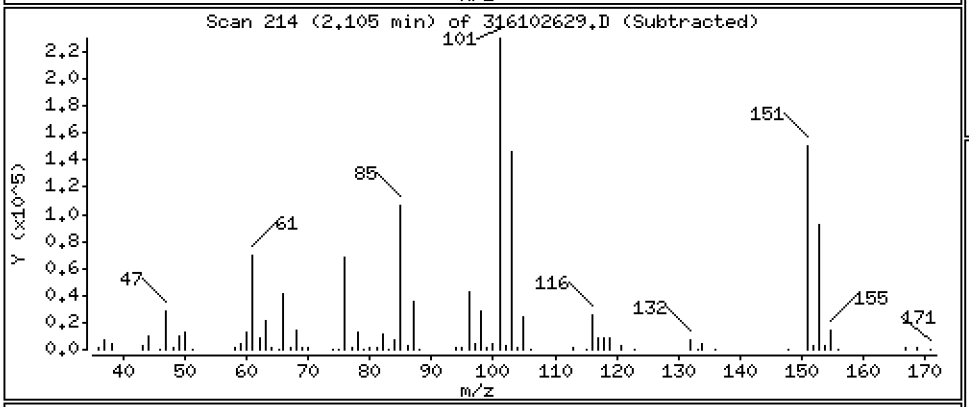
Sample Info: 1801;;1;2;4;;;

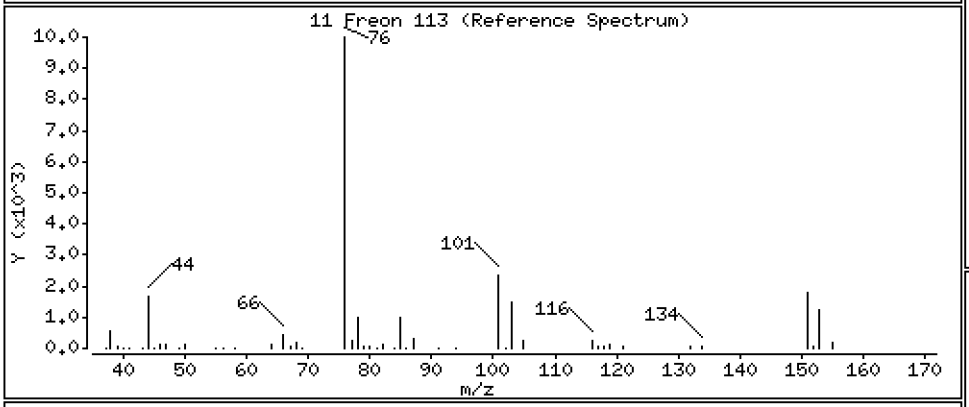
Purge Volume: 5.0 Operator: DD

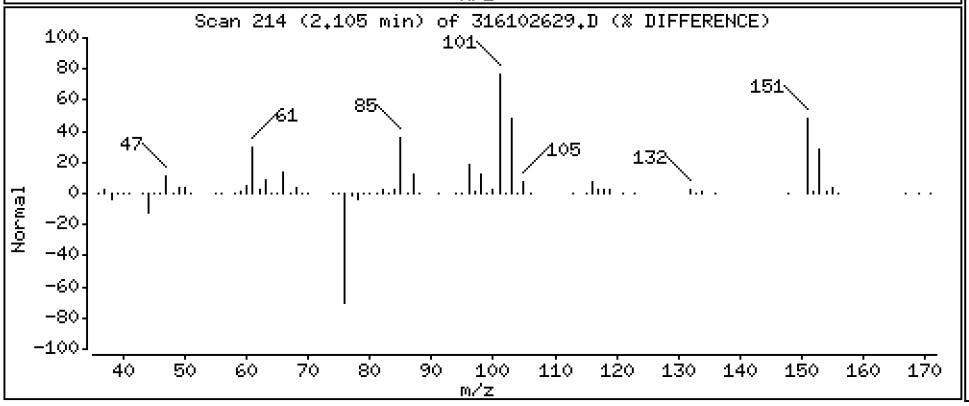
Column phase: DB-VRX Column diameter: 0.25

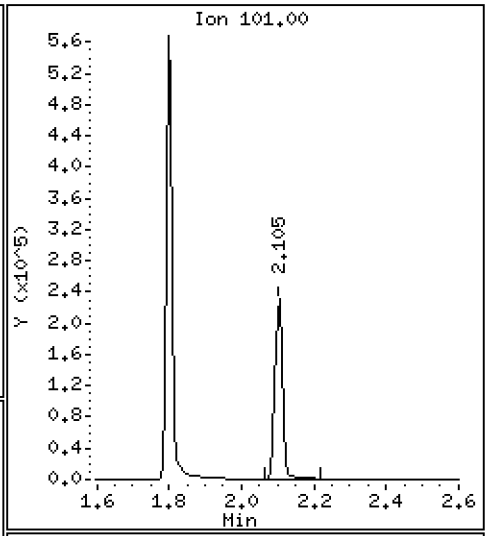
11 Freon 113 Concentration: 47.3304 ug/L

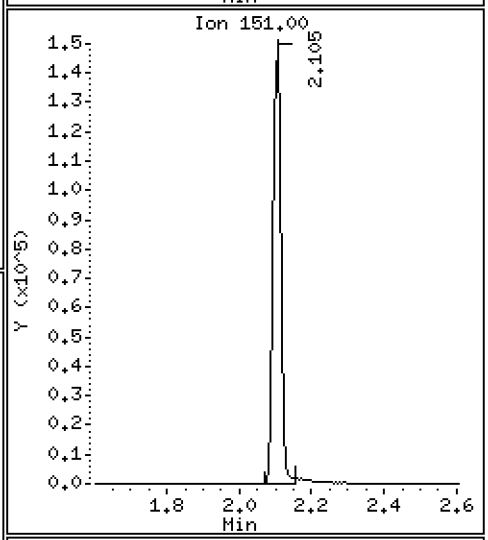


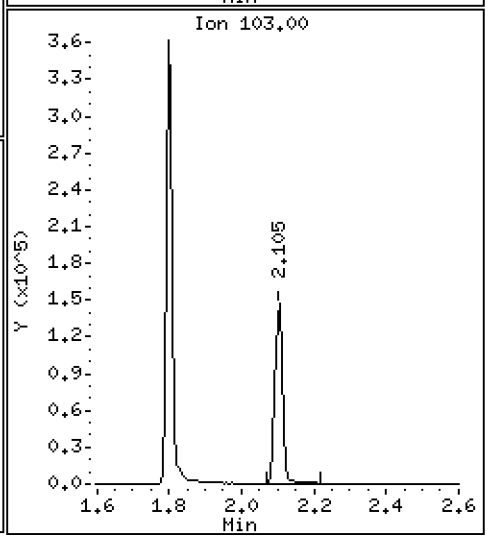












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 25

Date : 26-OCT-2016 19:41

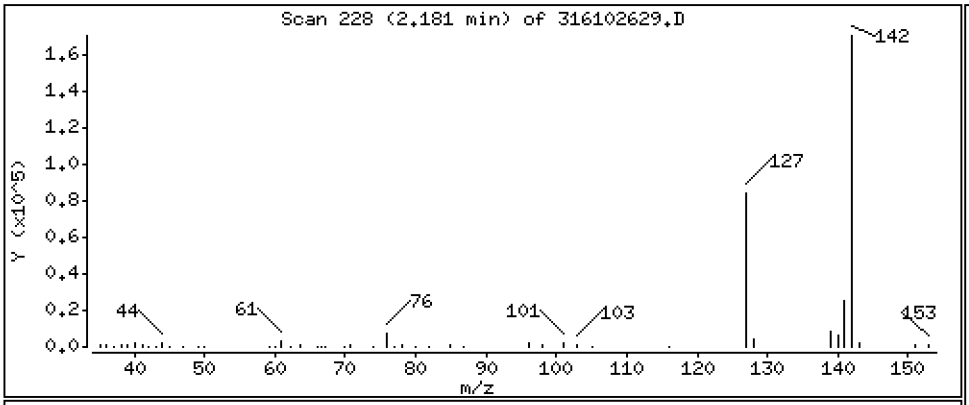
Client ID: Instrument: ms03.i

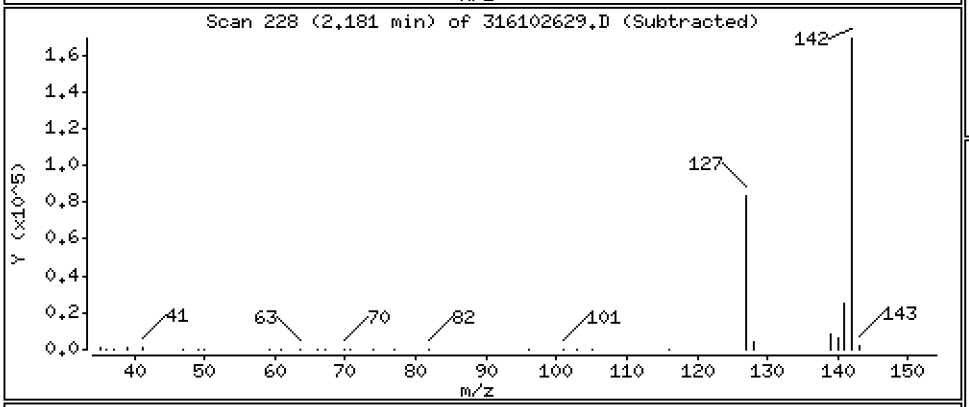
Sample Info: 1801;;1;2;4;;;

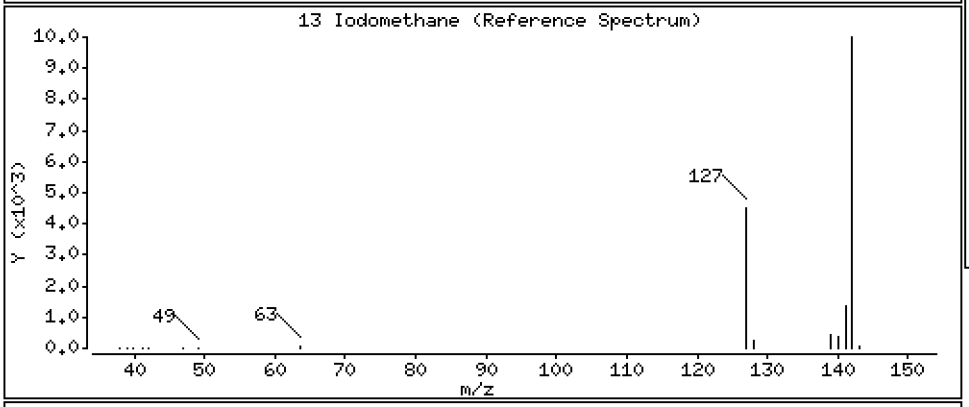
Purge Volume: 5.0 Operator: DD

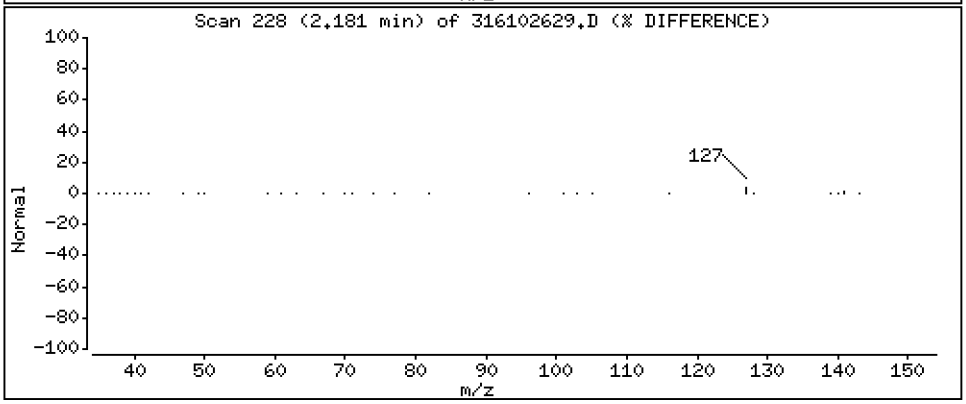
Column phase: DB-VRX Column diameter: 0.25

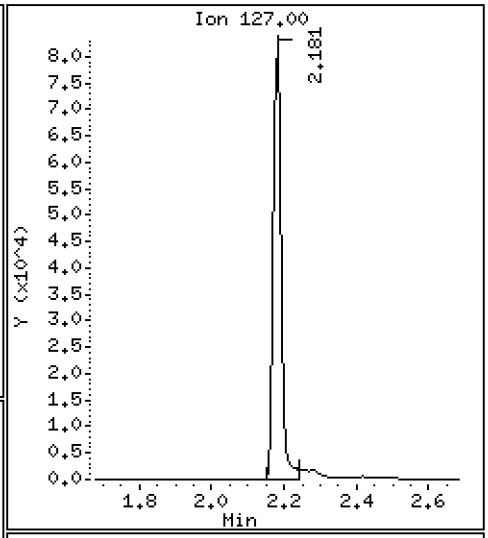
13 Iodomethane Concentration: 59.6977 ug/L

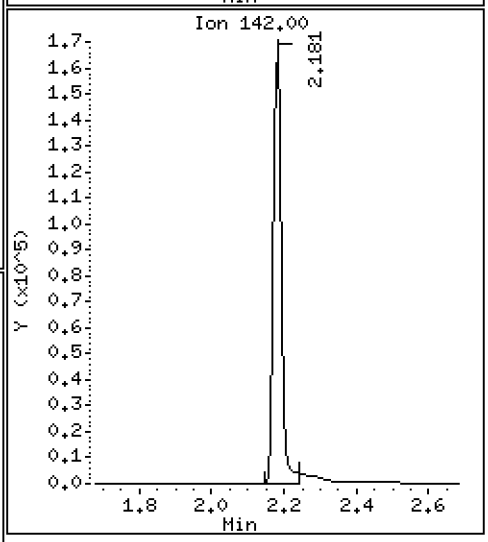












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 26

Date : 26-OCT-2016 19:41

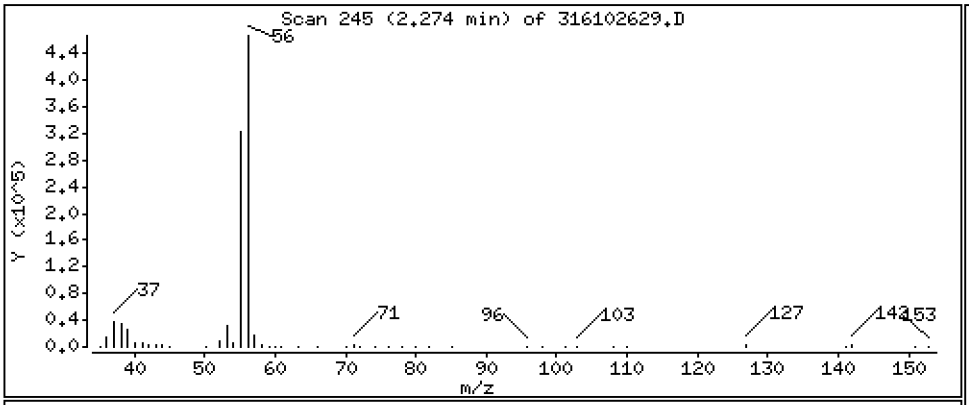
Client ID: Instrument: ms03.i

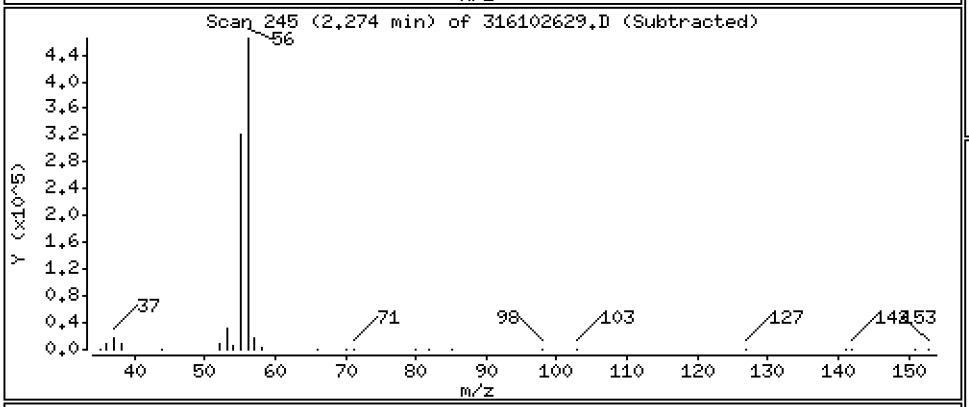
Sample Info: 1801;;1;2;4;;;

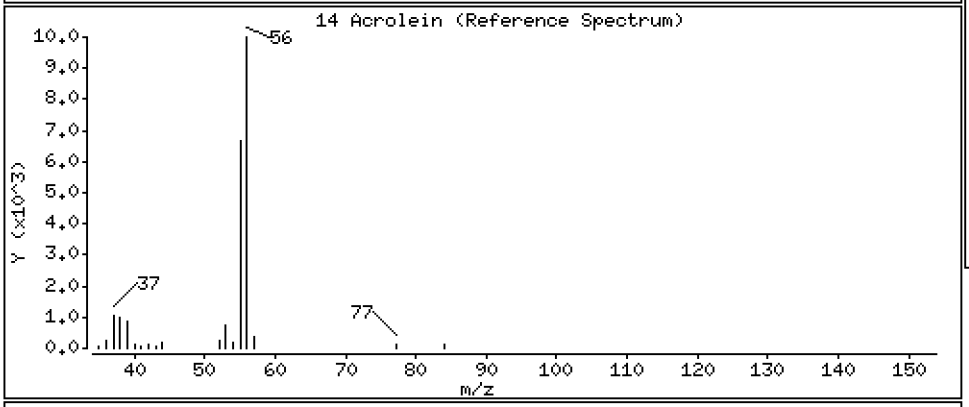
Purge Volume: 5.0 Operator: DD

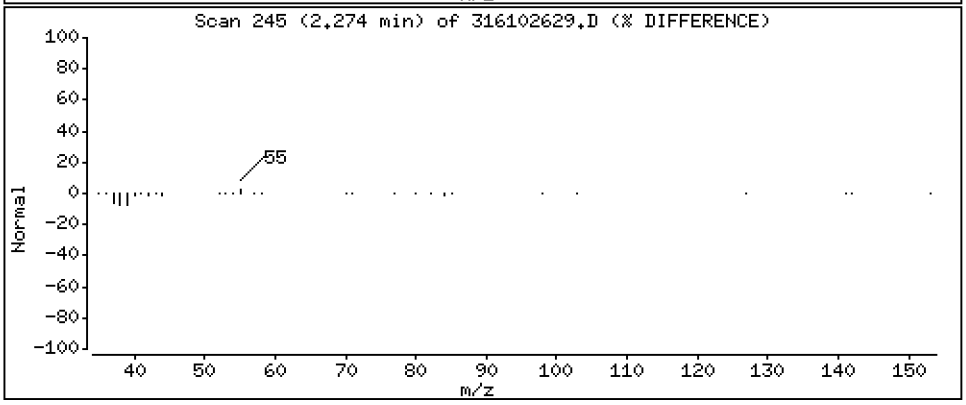
Column phase: DB-VRX Column diameter: 0.25

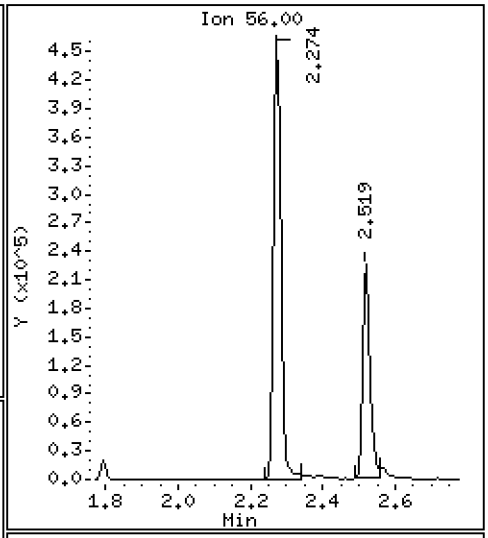
14 Acrolein Concentration: 523.470 ug/L

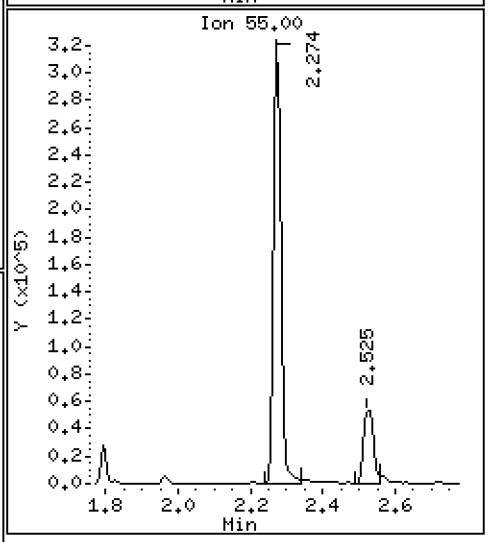












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 27

Date : 26-OCT-2016 19:41

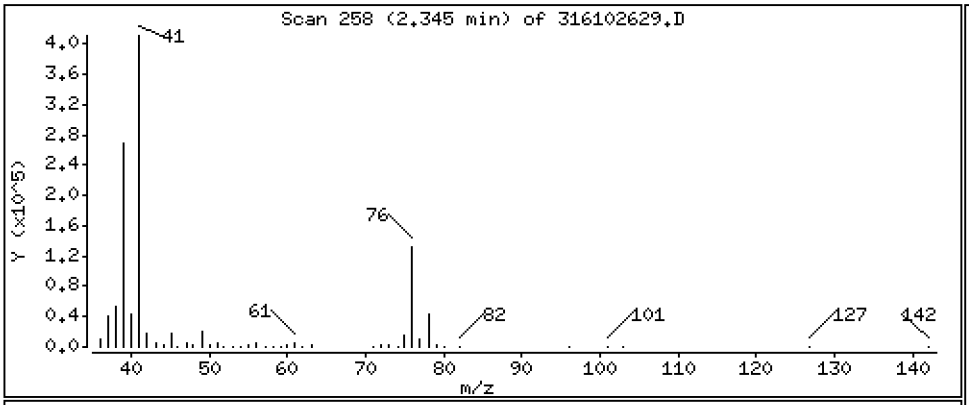
Client ID: Instrument: ms03.i

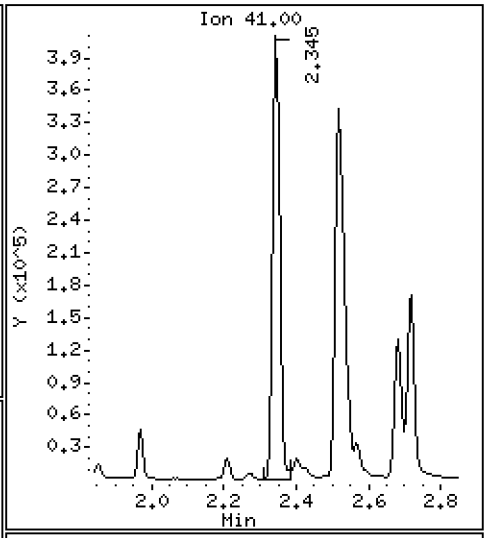
Sample Info: 1801;;1;2;4;;;

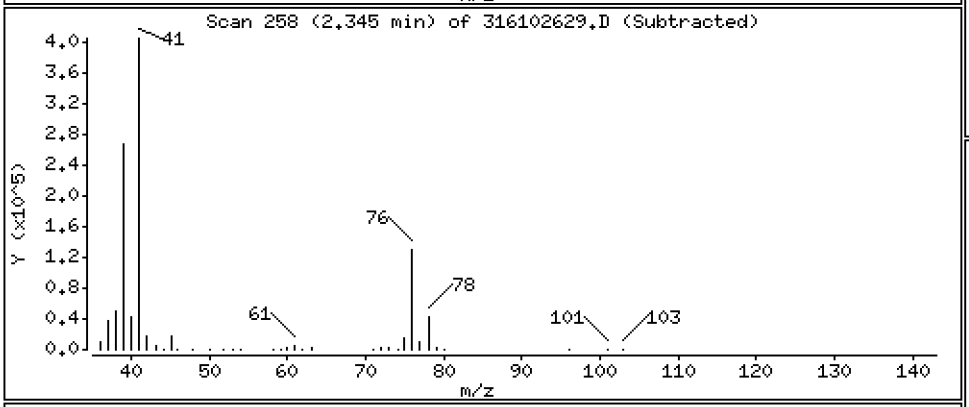
Purge Volume: 5.0 Operator: DD

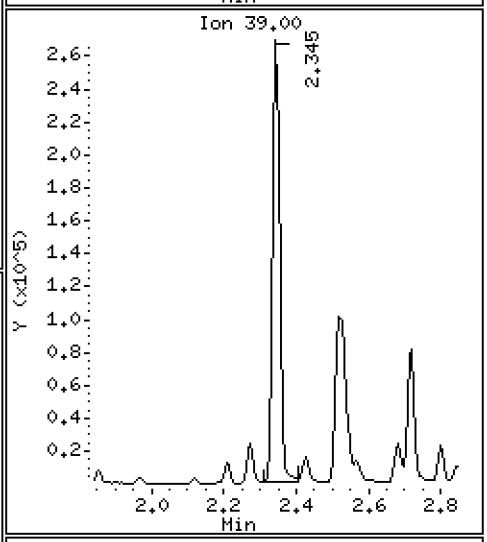
Column phase: DB-VRX Column diameter: 0.25

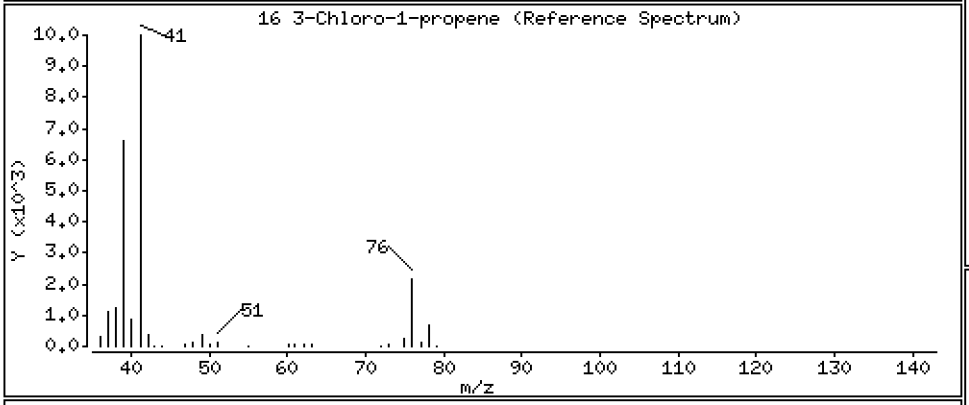
16 3-Chloro-1-propene Concentration: 49.9799 ug/L

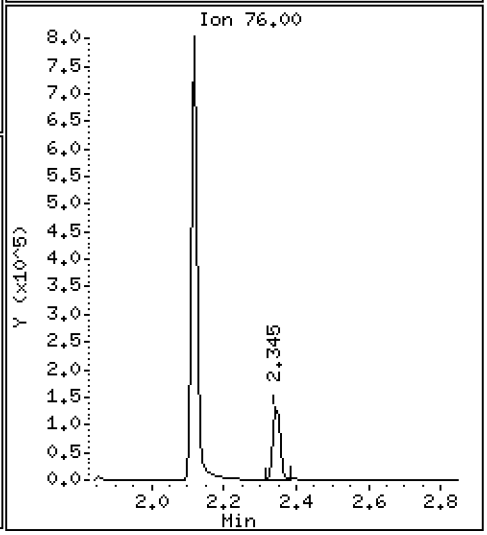


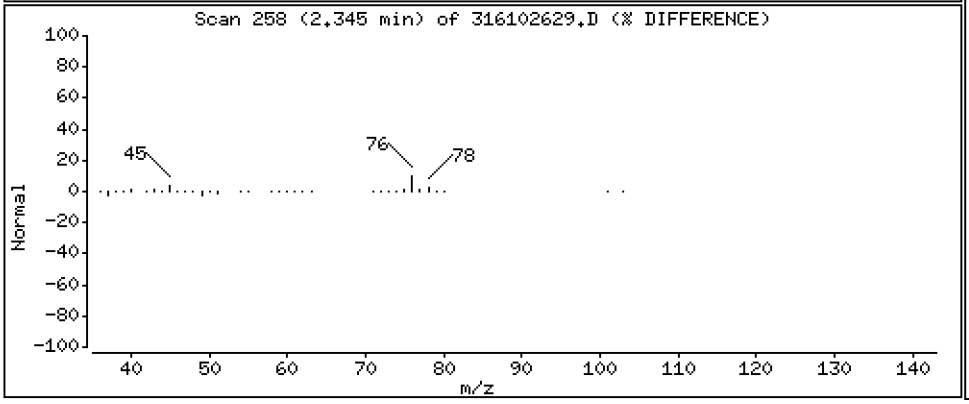












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 28

Date : 26-OCT-2016 19:41

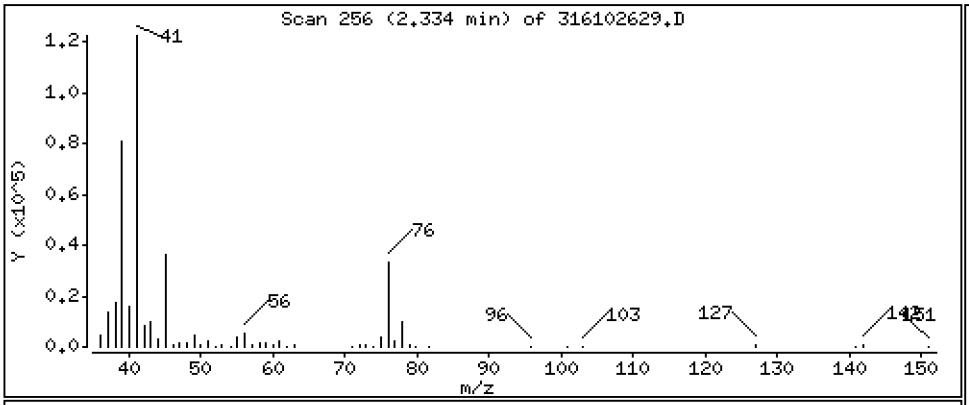
Client ID: Instrument: ms03.i

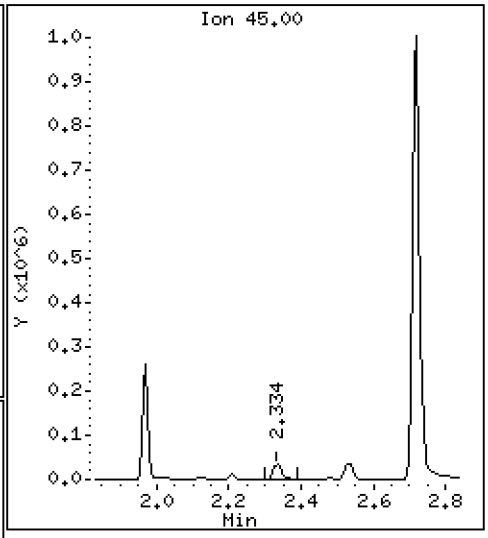
Sample Info: 1801;;1;2;4;;;

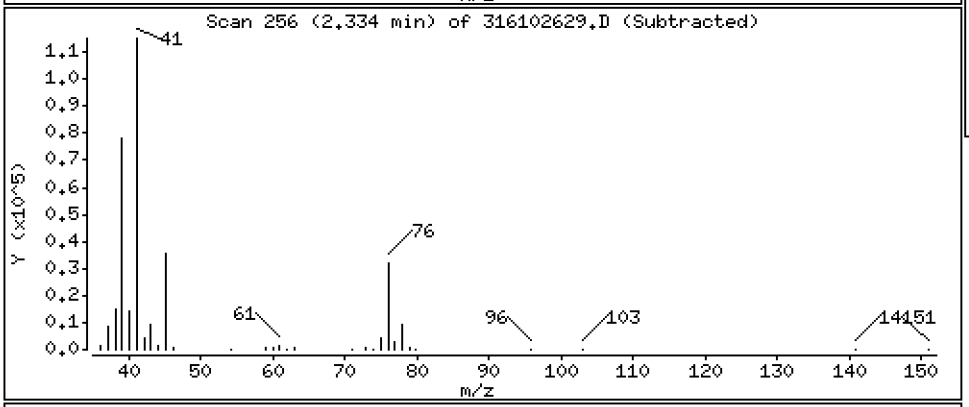
Purge Volume: 5.0 Operator: DD

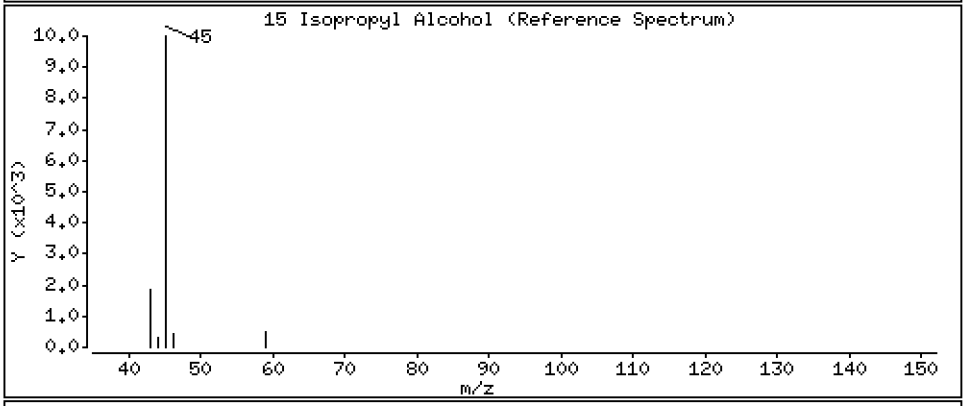
Column phase: DB-VRX Column diameter: 0.25

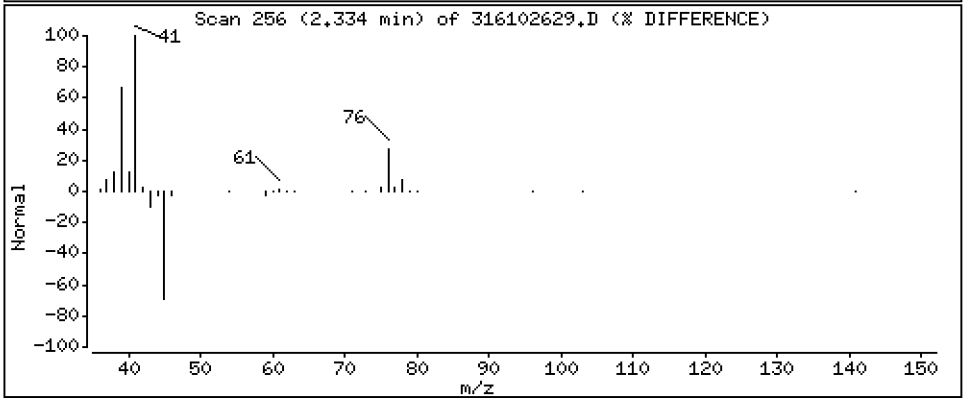
15 Isopropyl Alcohol Concentration: 216.440 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 29

Date : 26-OCT-2016 19:41

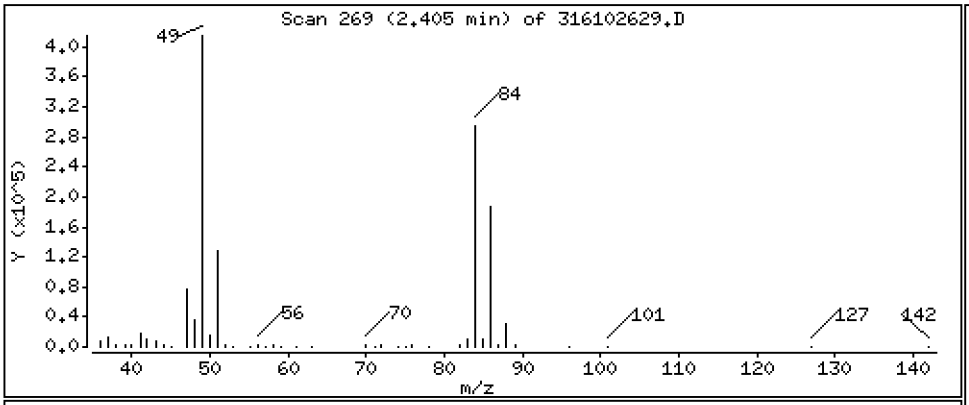
Client ID: Instrument: ms03.i

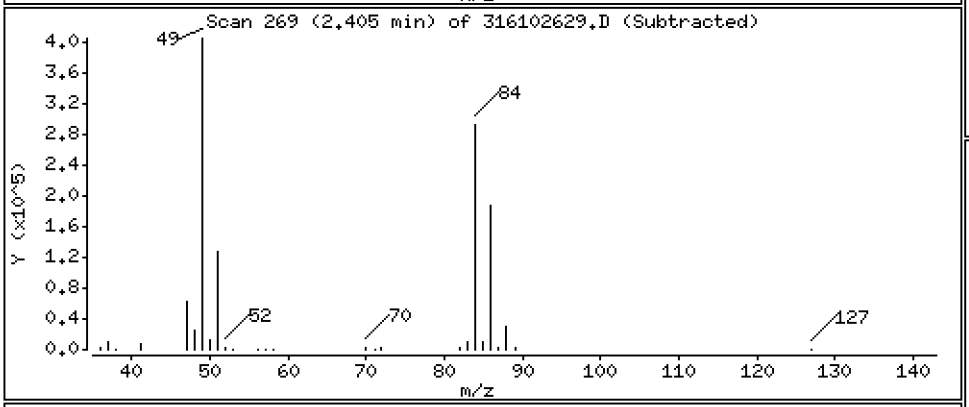
Sample Info: 1801;;1;2;4;;;

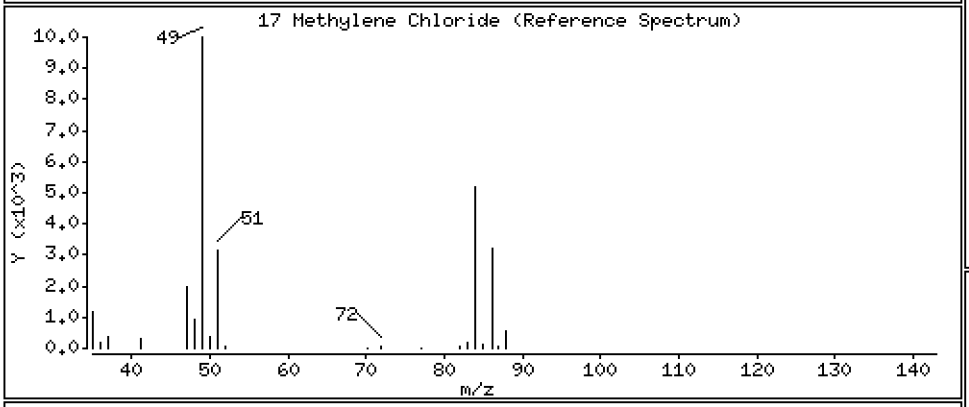
Purge Volume: 5.0 Operator: DD

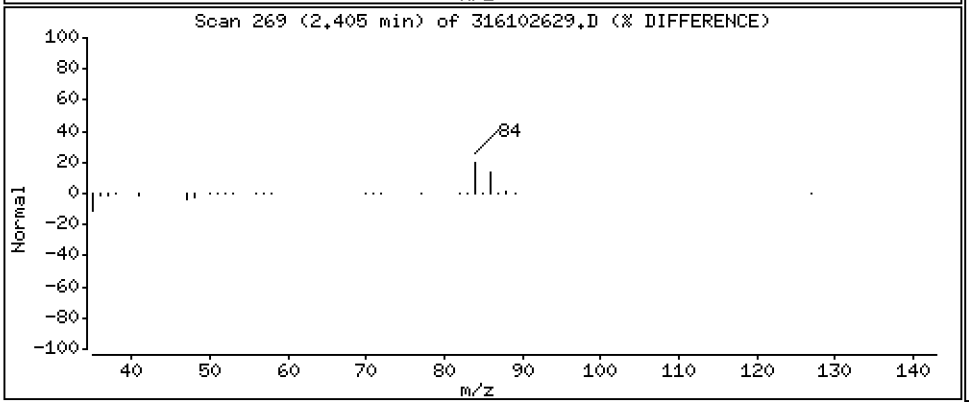
Column phase: DB-VRX Column diameter: 0.25

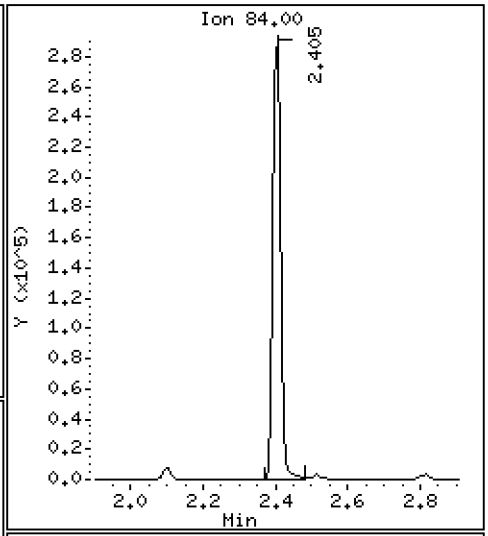
17 Methylene Chloride Concentration: 50.6170 ug/L

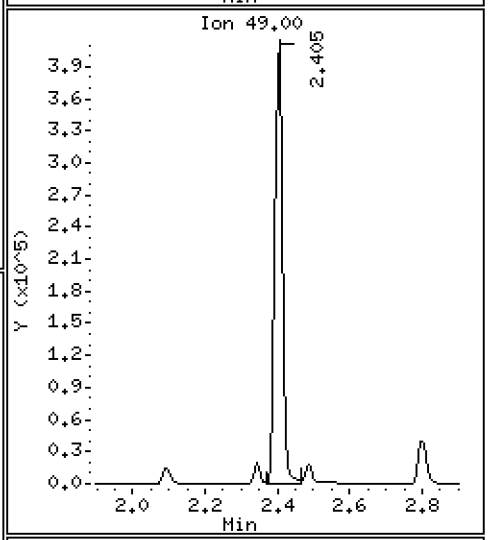


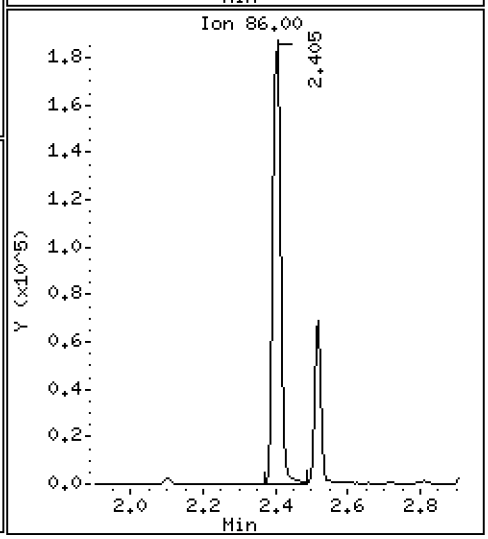












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 30

Date : 26-OCT-2016 19:41

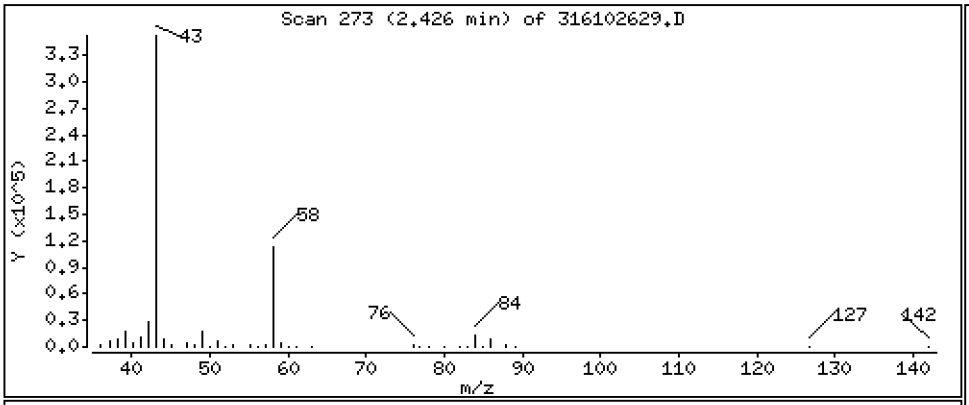
Client ID: Instrument: ms03.i

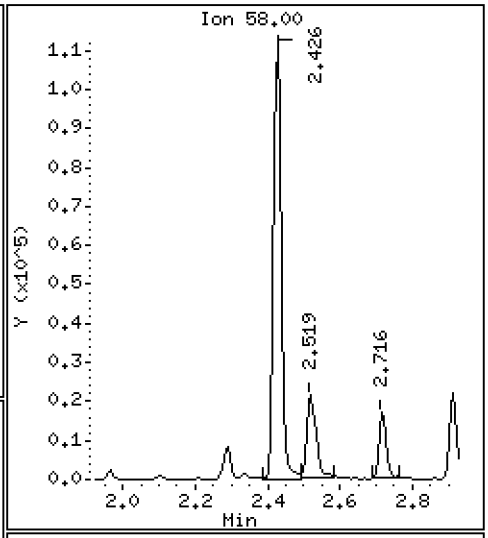
Sample Info: 1801;;1;2;4;;;

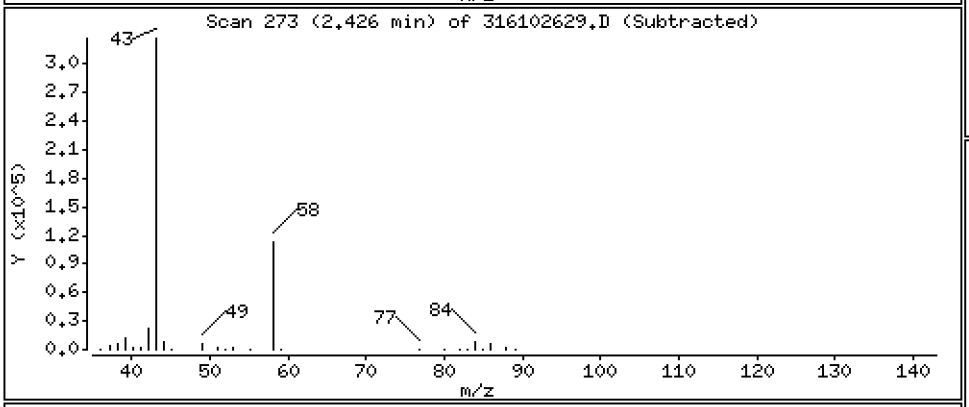
Purge Volume: 5.0 Operator: DD

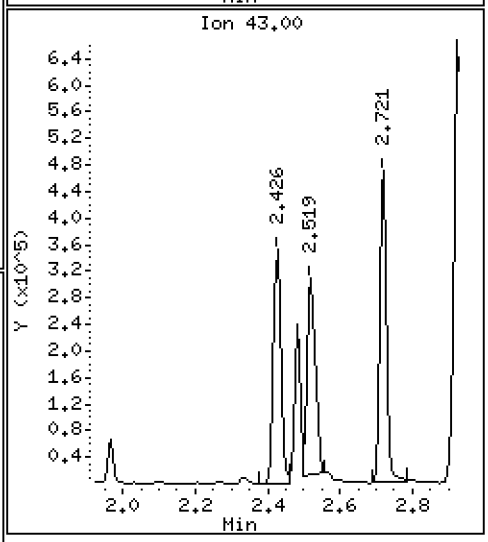
Column phase: DB-VRX Column diameter: 0.25

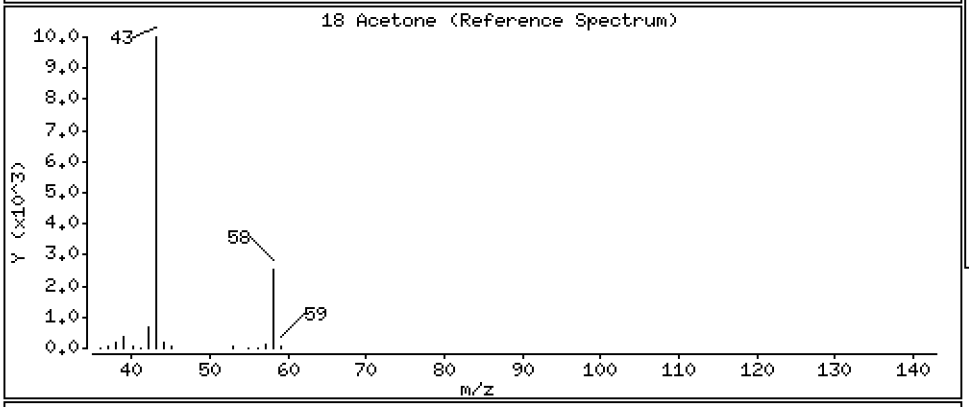
18 Acetone Concentration: 245.994 ug/L

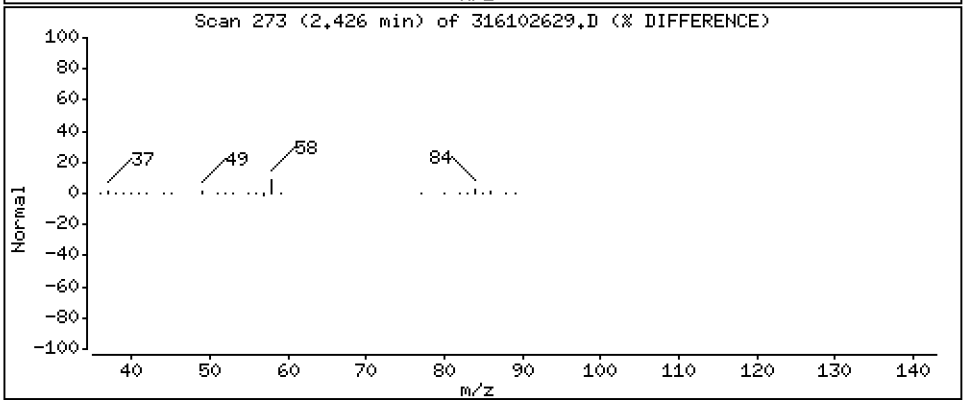












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 31

Date : 26-OCT-2016 19:41

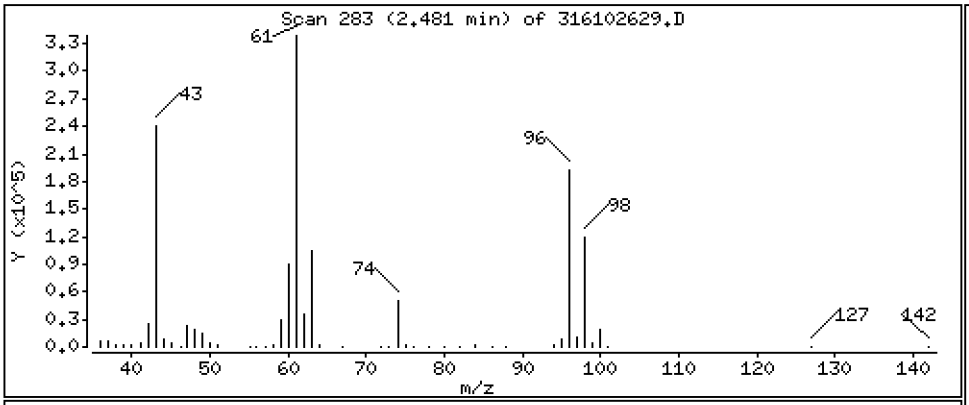
Client ID: Instrument: ms03.i

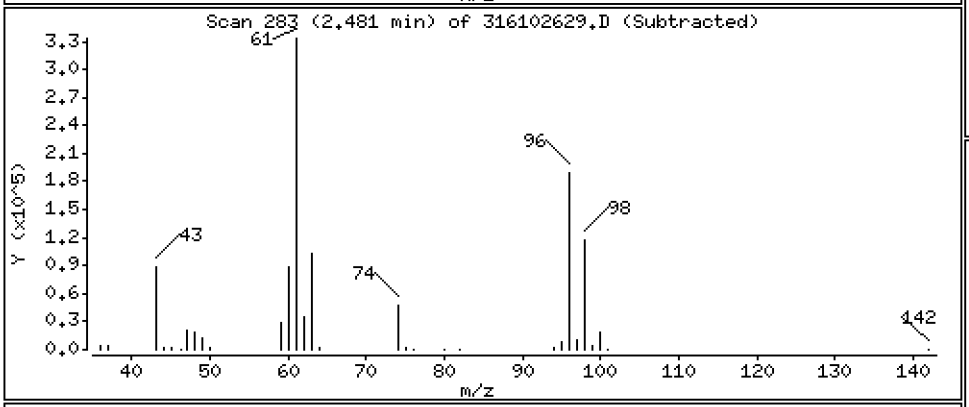
Sample Info: 1801;;1;2;4;;;

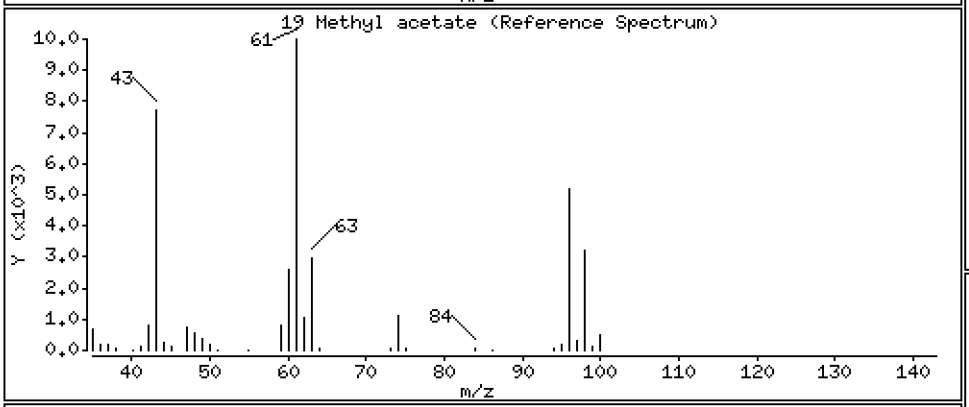
Purge Volume: 5.0 Operator: DD

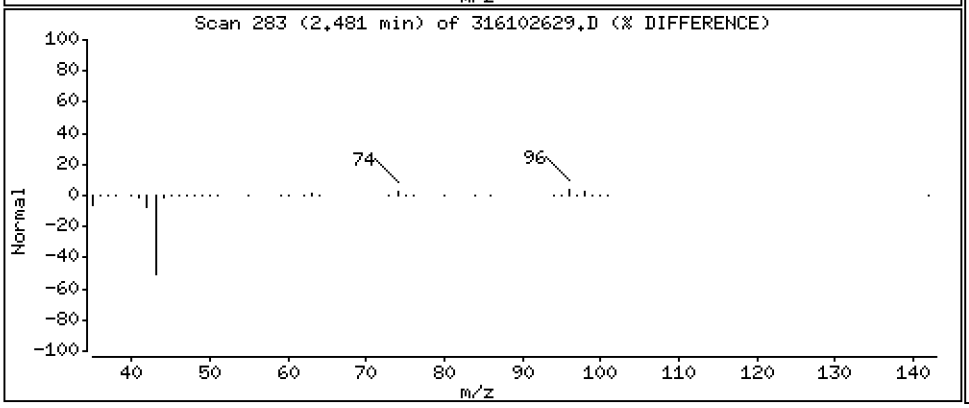
Column phase: DB-VRX Column diameter: 0.25

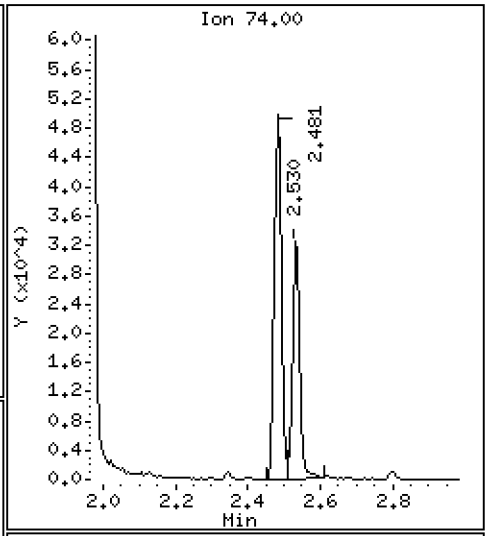
19 Methyl acetate Concentration: 49.6765 ug/L

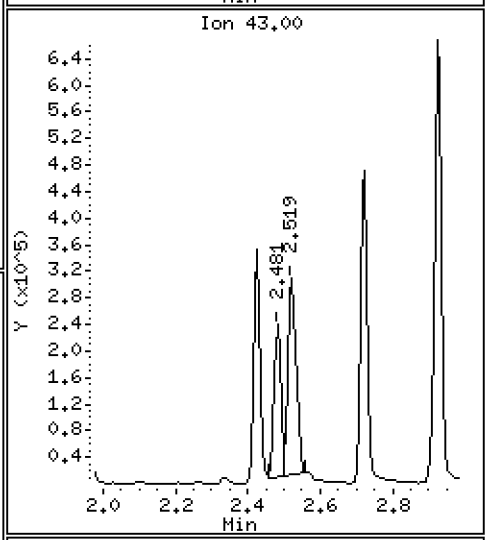


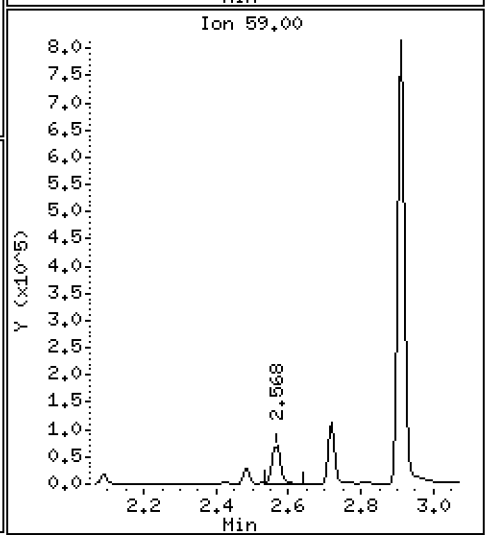












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 32

Date : 26-OCT-2016 19:41

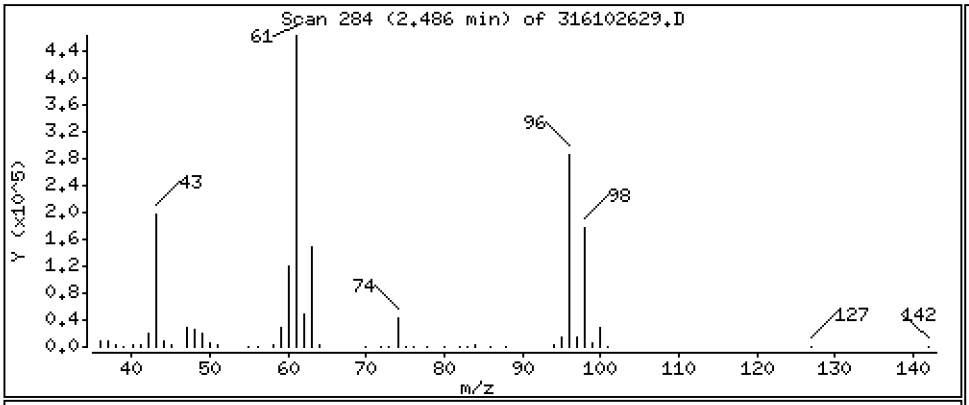
Client ID: Instrument: ms03.i

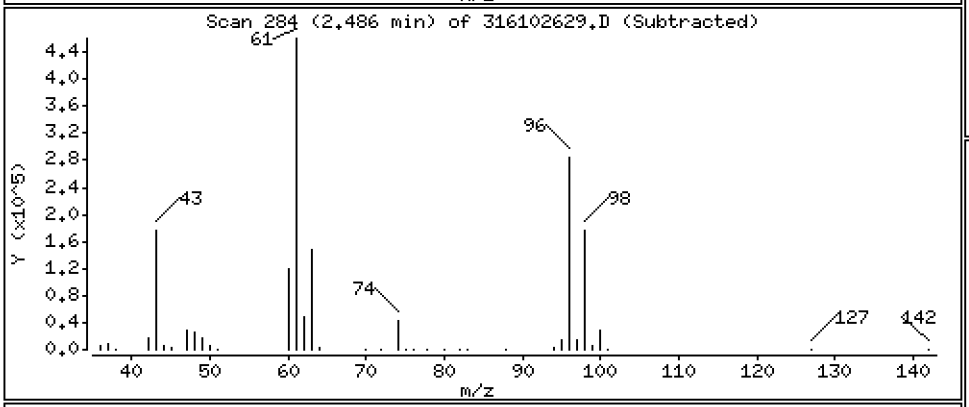
Sample Info: 1801;;1;2;4;;;

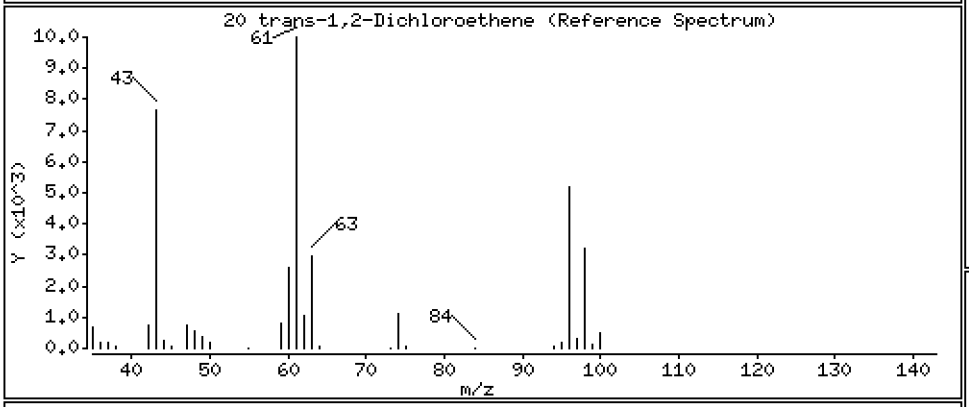
Purge Volume: 5.0 Operator: DD

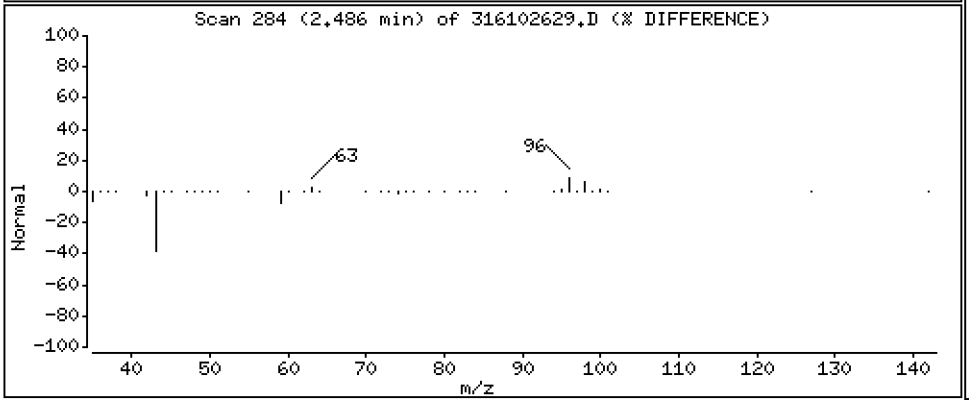
Column phase: DB-VRX Column diameter: 0.25

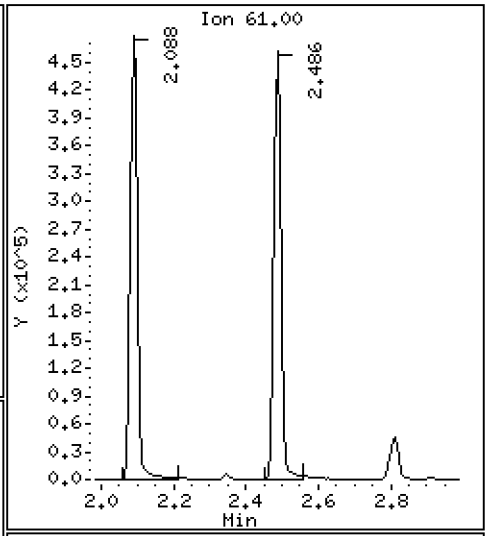
20 trans-1,2-Dichloroethene Concentration: 49.2126 ug/L

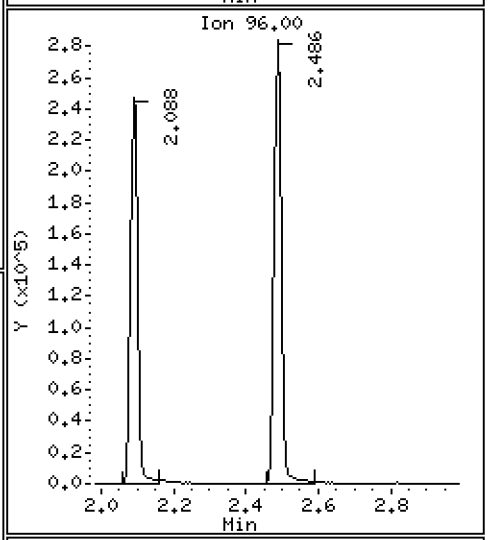


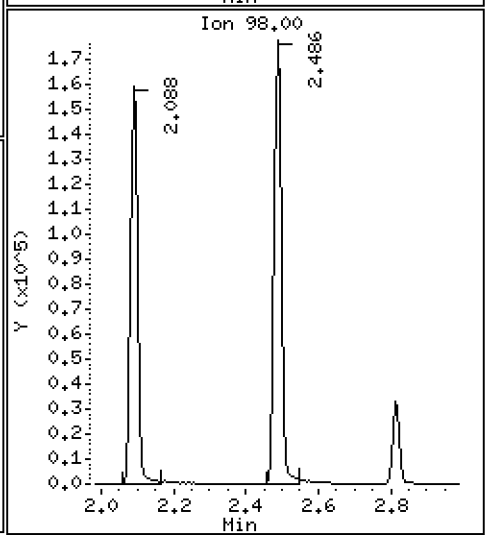












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 33

Date : 26-OCT-2016 19:41

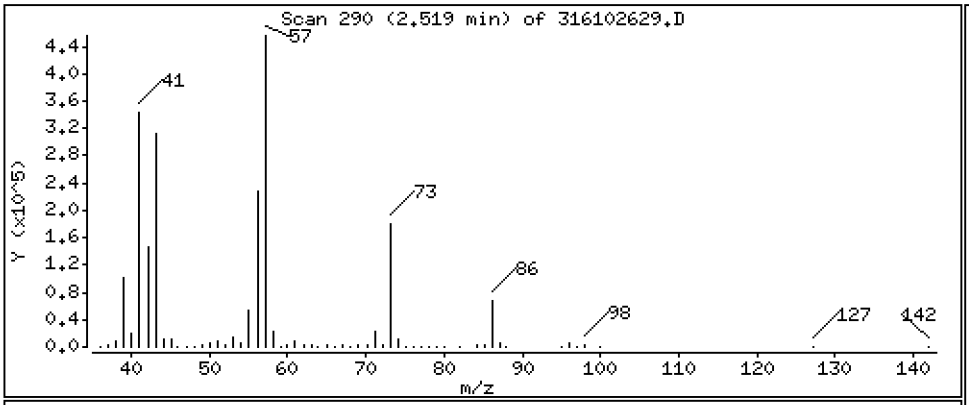
Client ID: Instrument: ms03.i

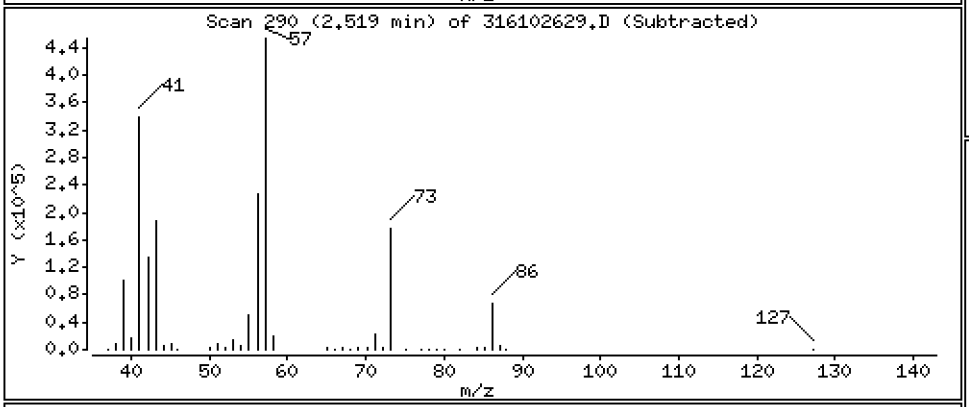
Sample Info: 1801;;1;2;4;;;

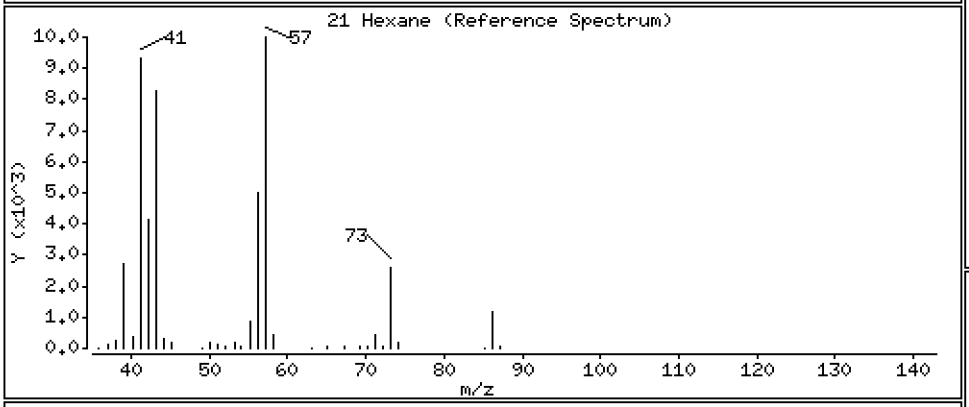
Purge Volume: 5.0 Operator: DD

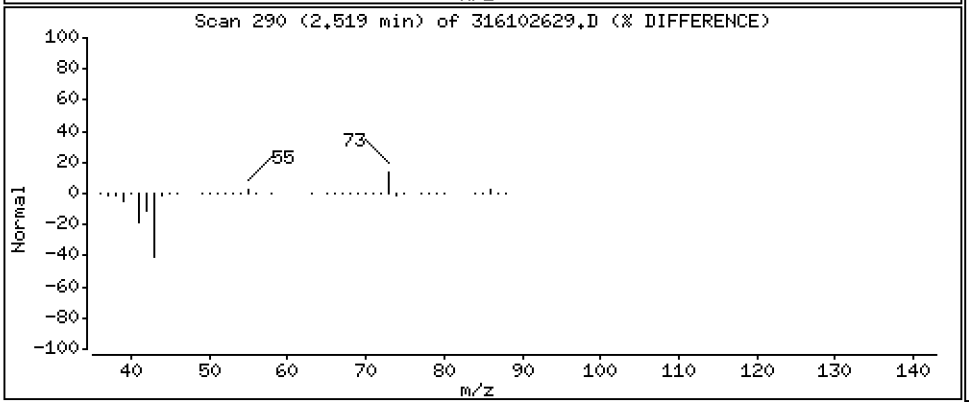
Column phase: DB-VRX Column diameter: 0.25

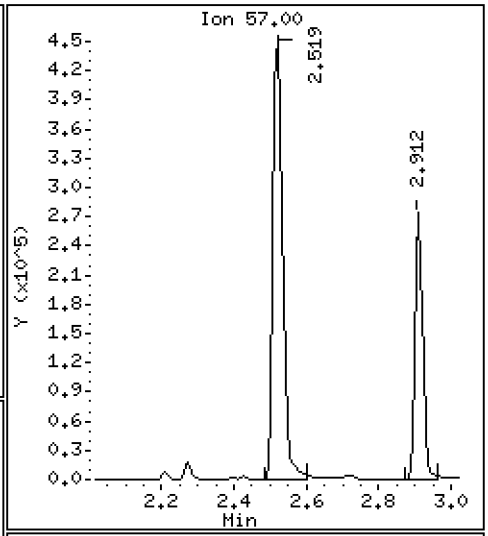
21 Hexane Concentration: 48.1870 ug/L

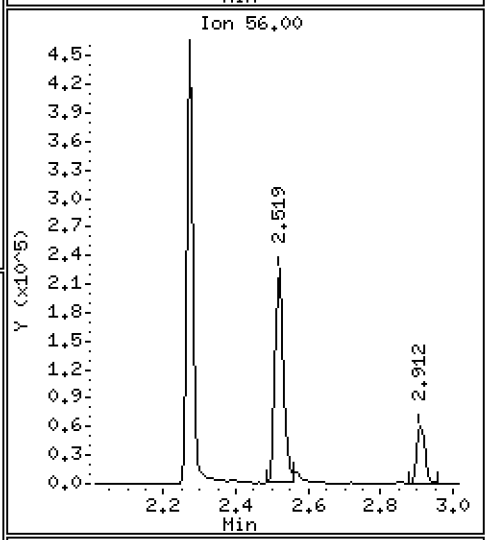


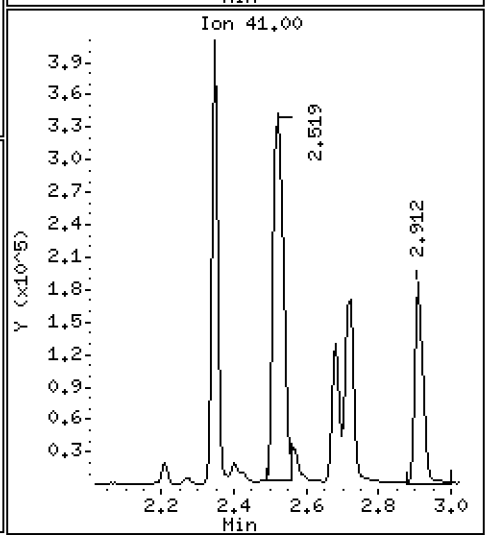












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 34

Date : 26-OCT-2016 19:41

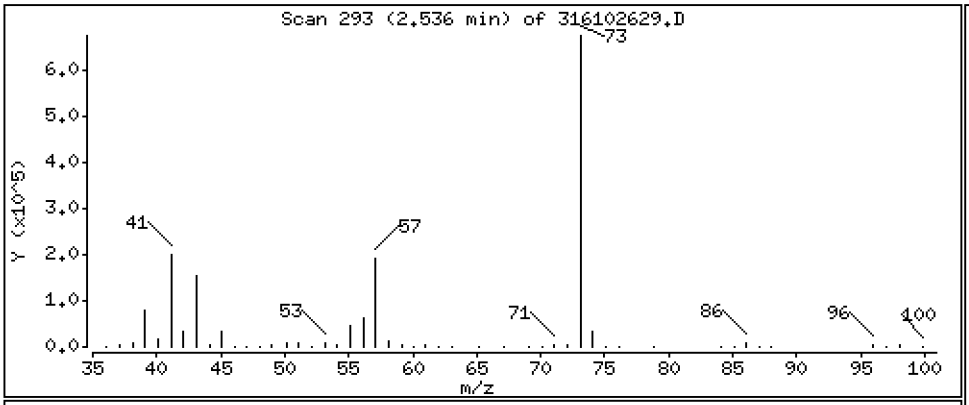
Client ID: Instrument: ms03.i

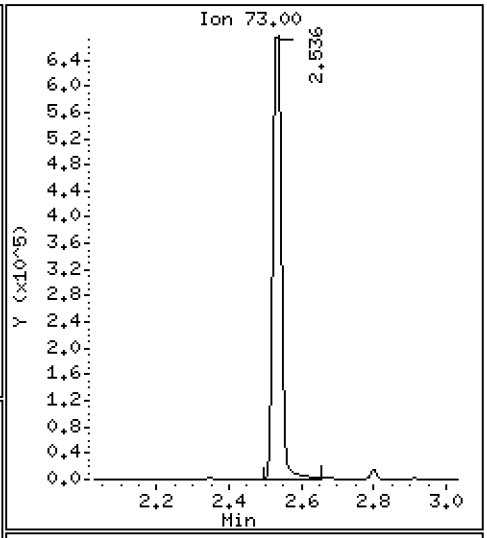
Sample Info: 1801;;1;2;4;;;

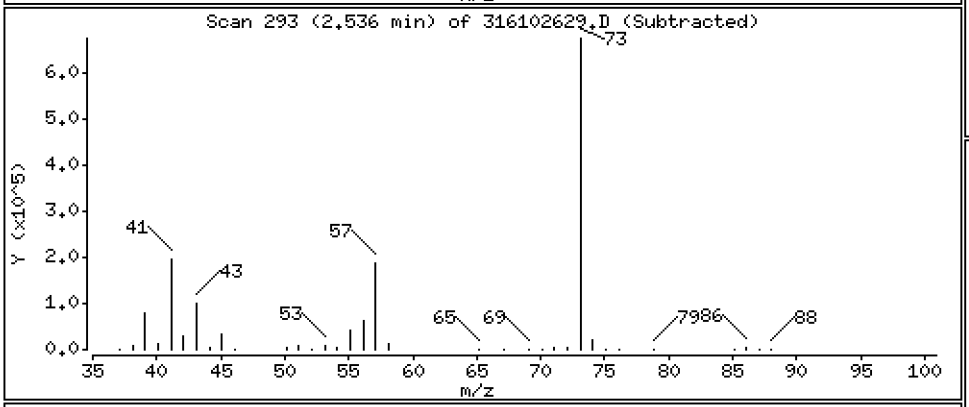
Purge Volume: 5.0 Operator: DD

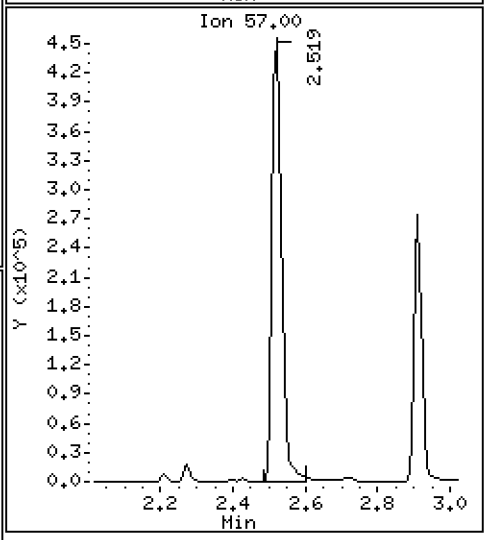
Column phase: DB-VRX Column diameter: 0.25

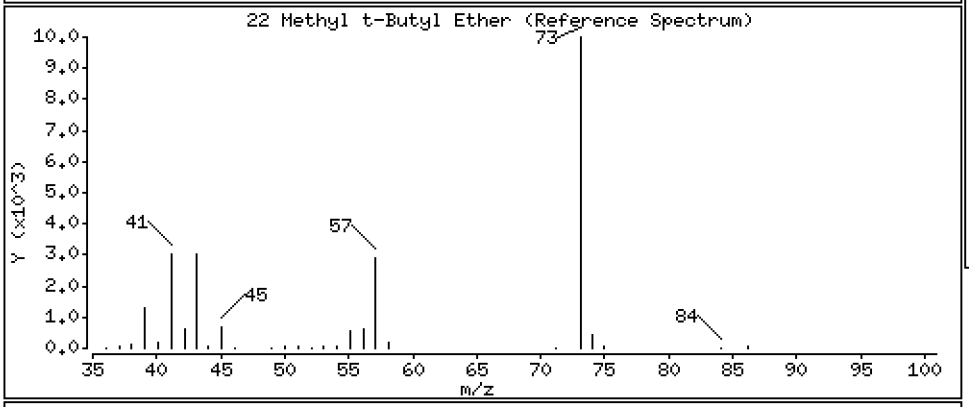
22 Methyl t-Butyl Ether Concentration: 49.7138 ug/L

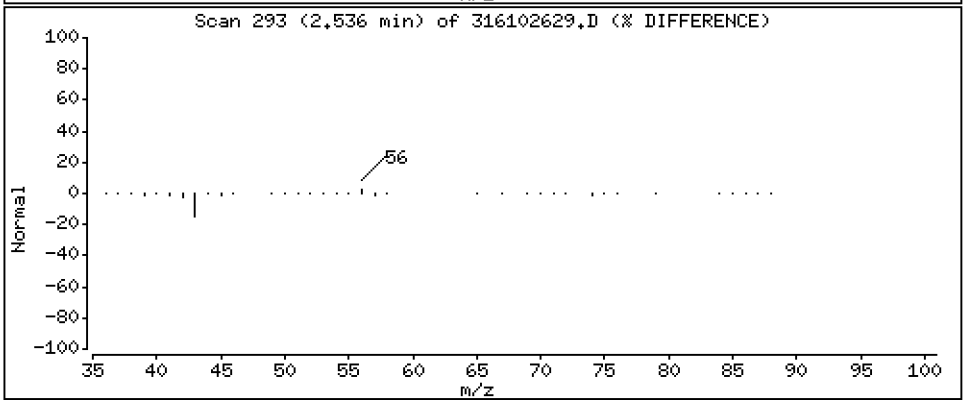












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 35

Date : 26-OCT-2016 19:41

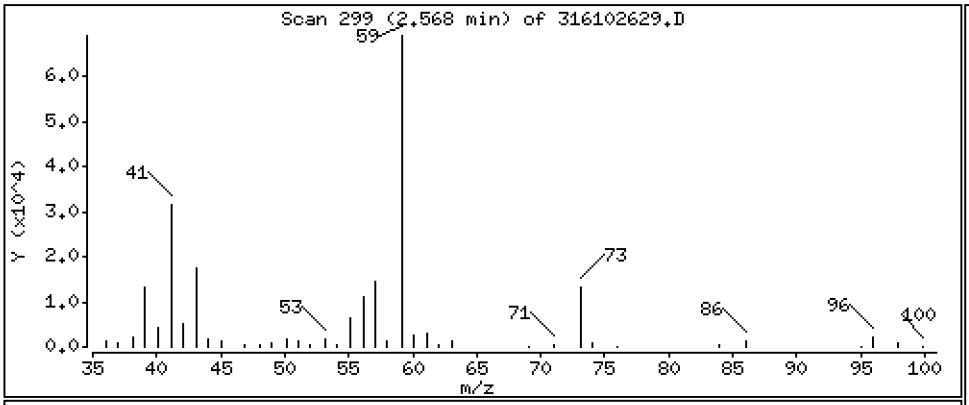
Client ID: Instrument: ms03.i

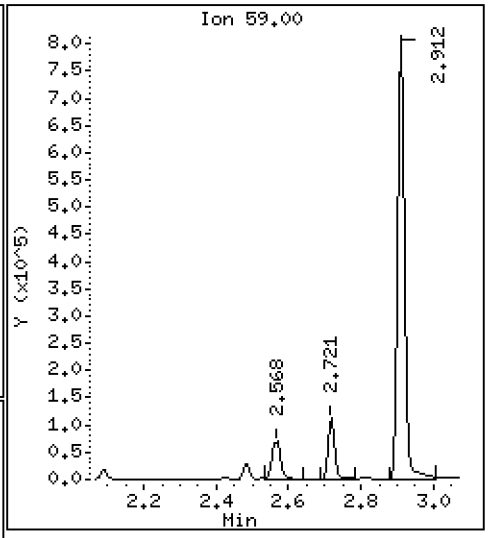
Sample Info: 1801;;1;2;4;;;

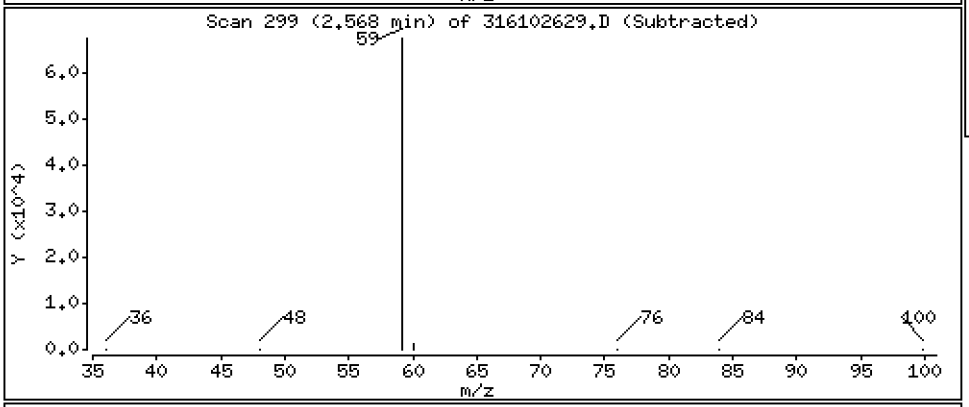
Purge Volume: 5.0 Operator: DD

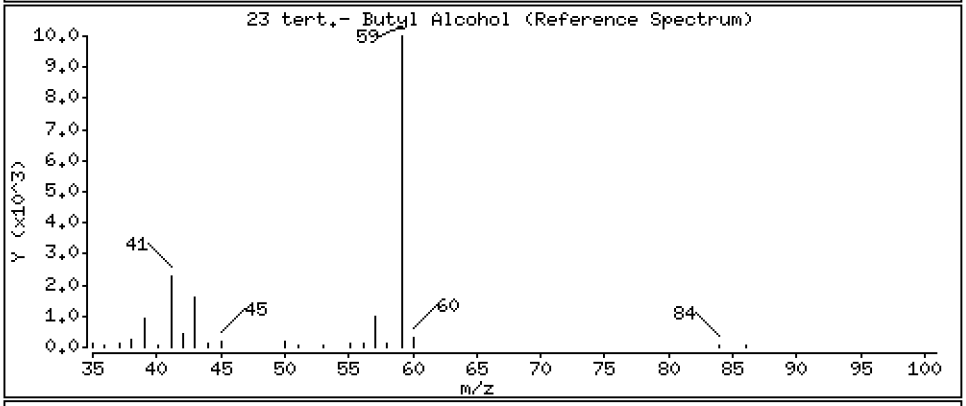
Column phase: DB-VRX Column diameter: 0.25

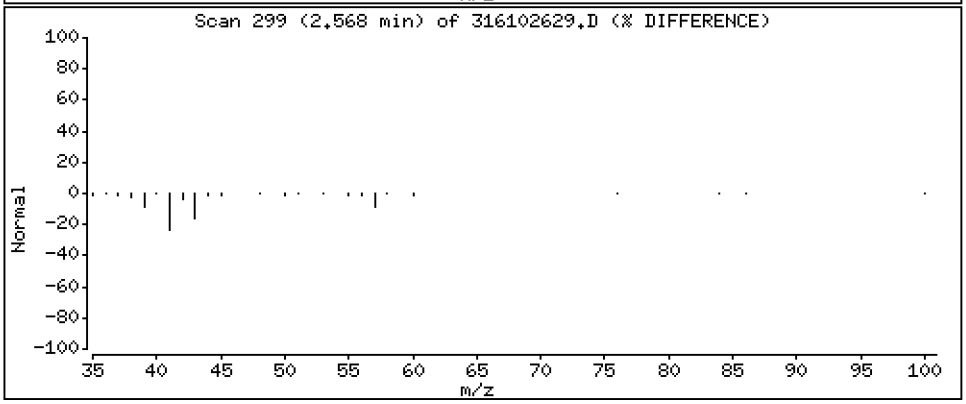
23 tert.- Butyl Alcohol Concentration: 235.842 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 36

Date : 26-OCT-2016 19:41

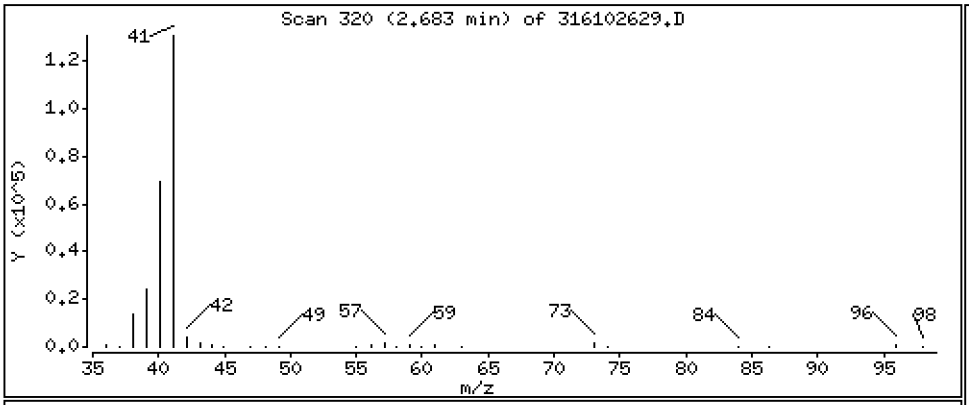
Client ID: Instrument: ms03.i

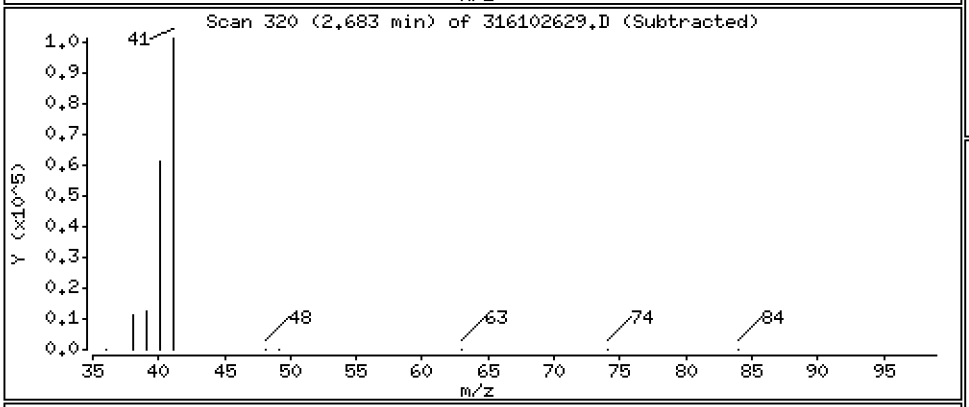
Sample Info: 1801;;1;2;4;;;

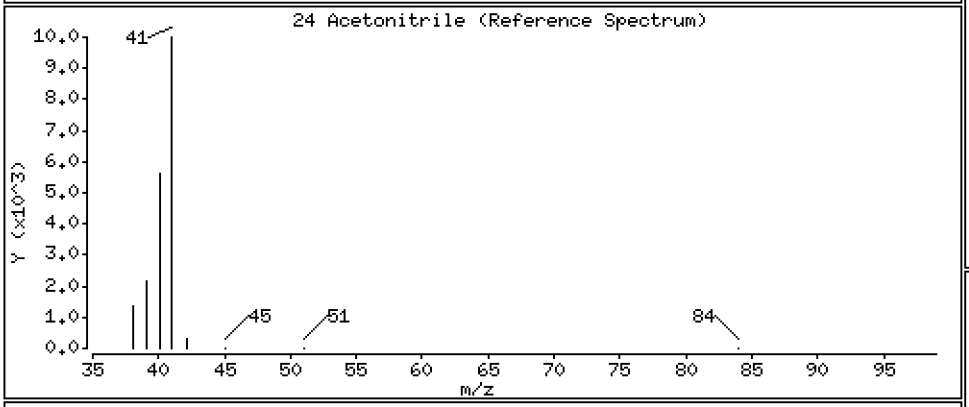
Purge Volume: 5.0 Operator: DD

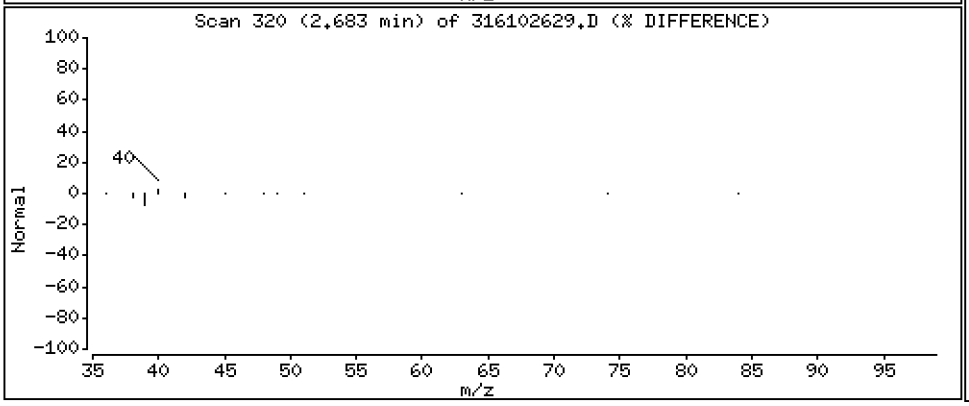
Column phase: DB-VRX Column diameter: 0.25

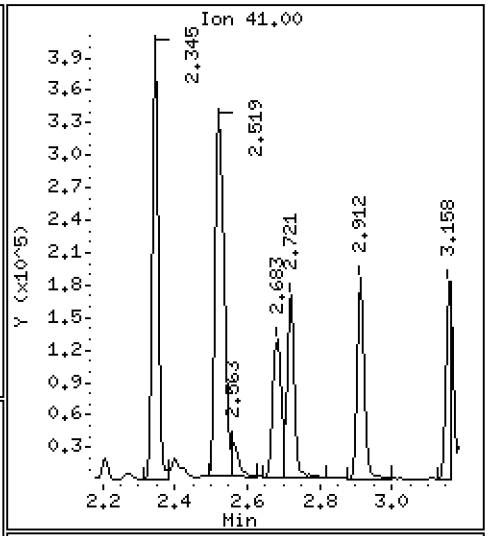
24 Acetonitrile Concentration: 291.802 ug/L

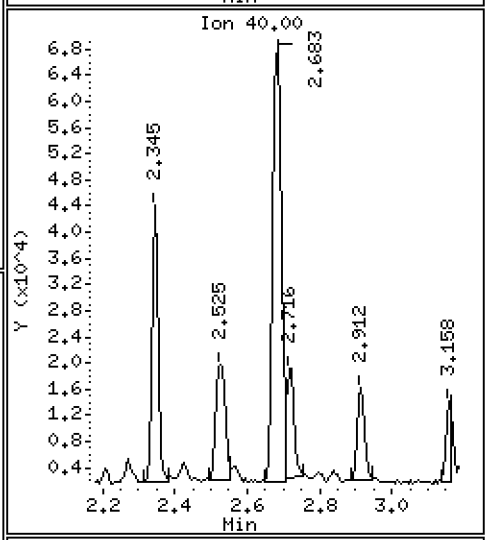


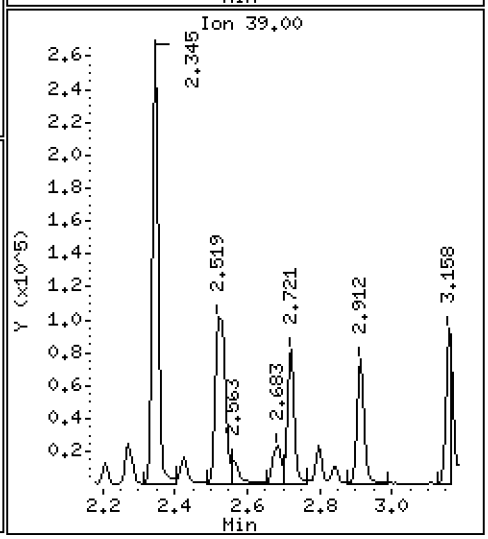












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 37

Date : 26-OCT-2016 19:41

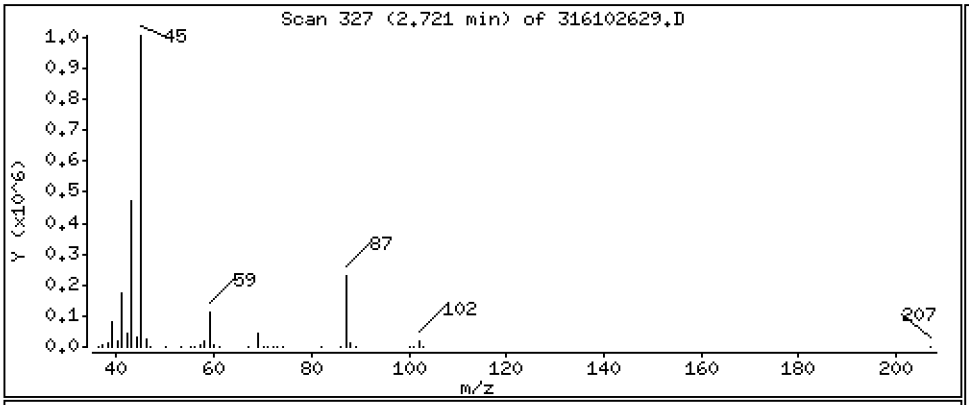
Client ID: Instrument: ms03.i

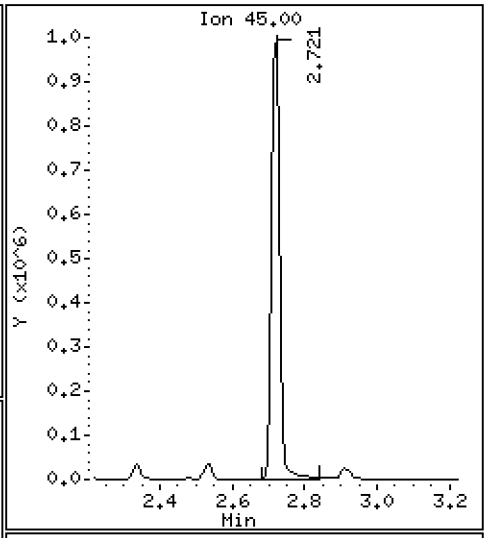
Sample Info: 1801;;1;2;4;;;

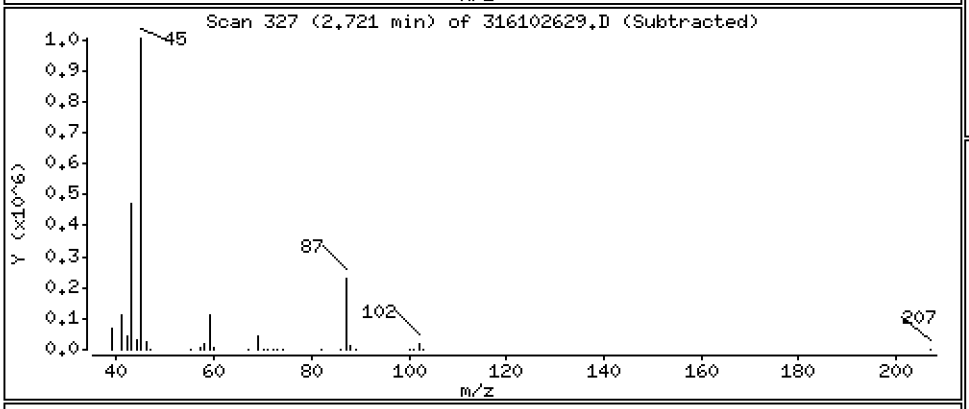
Purge Volume: 5.0 Operator: DD

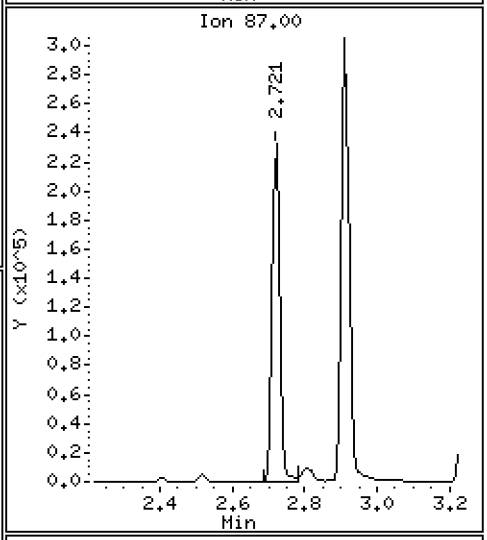
Column phase: DB-VRX Column diameter: 0.25

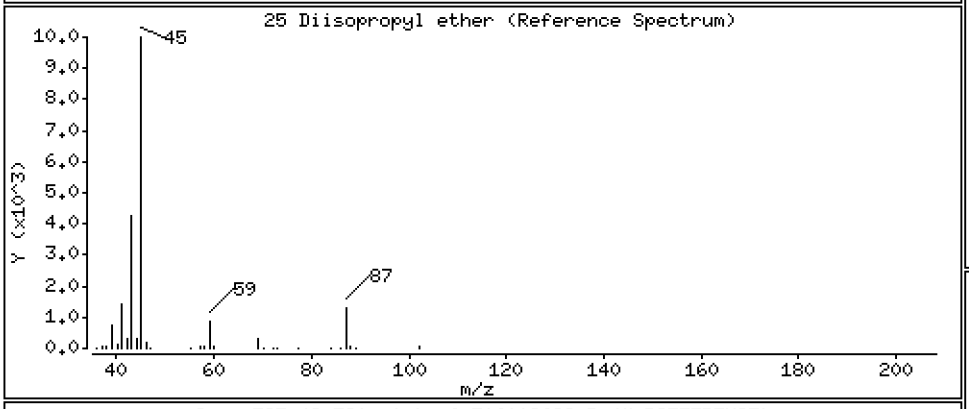
25 Diisopropyl ether Concentration: 53.9811 ug/L

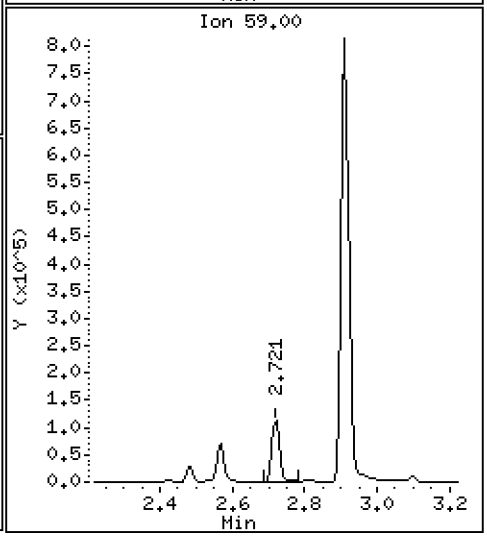


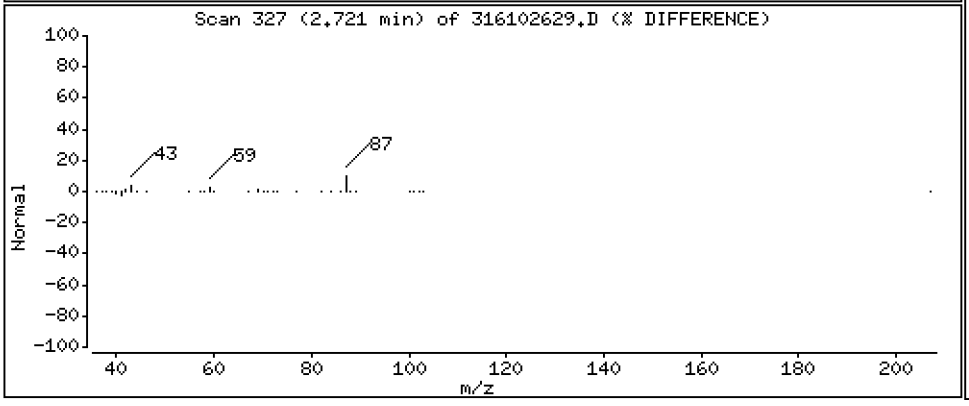












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 38

Date : 26-OCT-2016 19:41

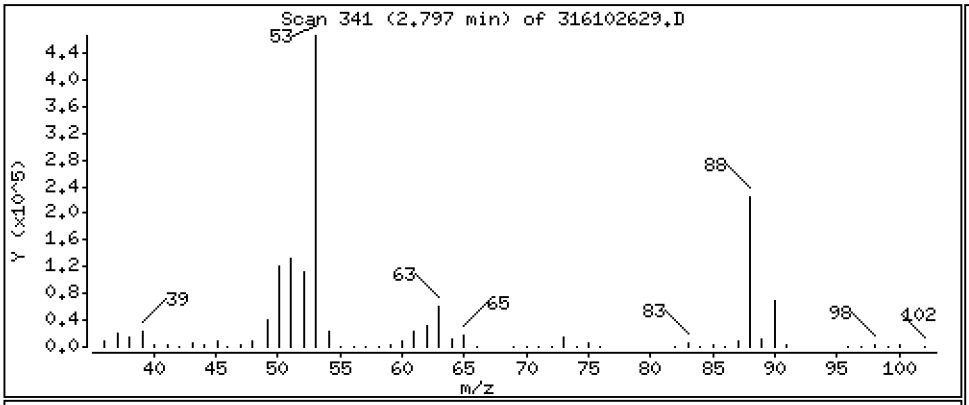
Client ID: Instrument: ms03.i

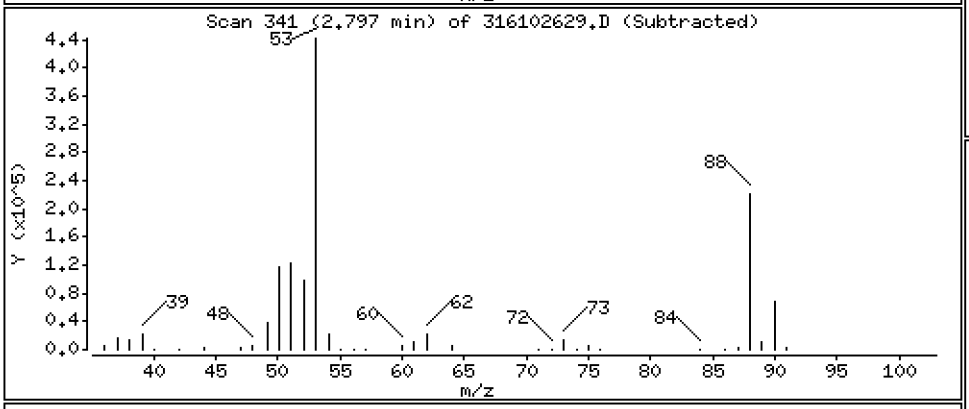
Sample Info: 1801;;1;2;4;;;

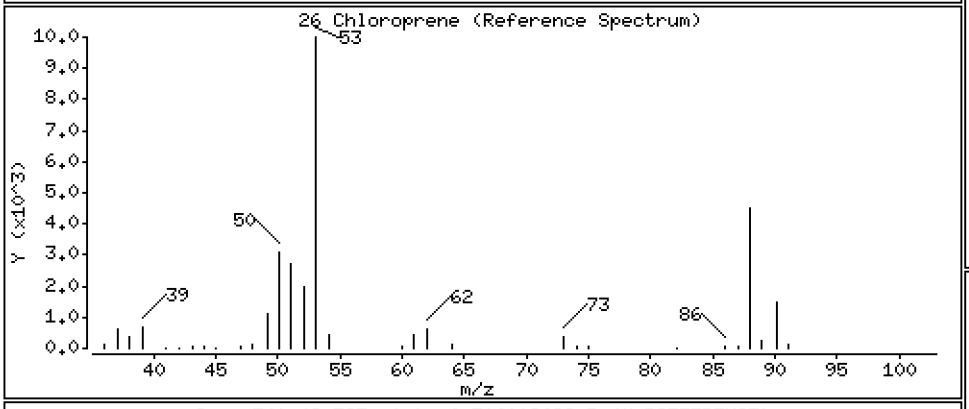
Purge Volume: 5.0 Operator: DD

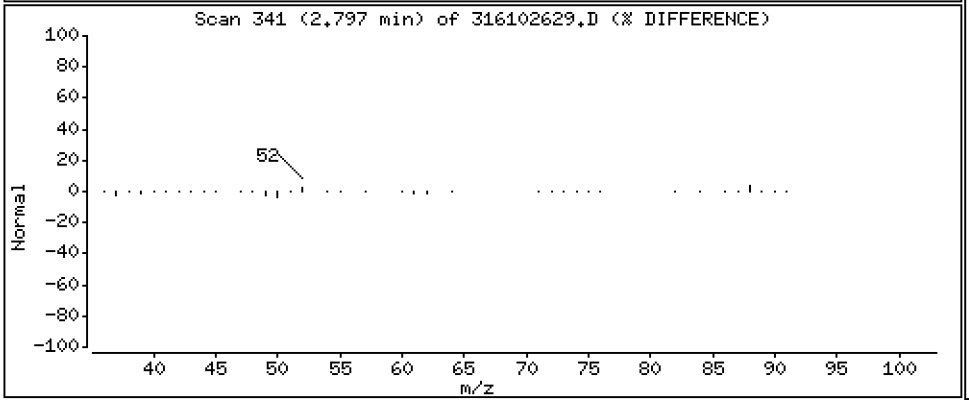
Column phase: DB-VRX Column diameter: 0.25

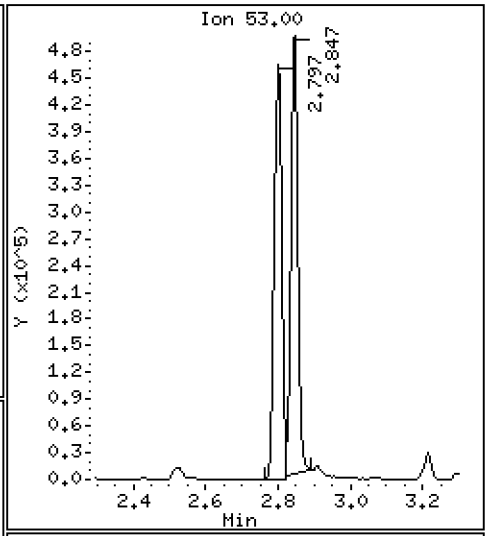
26 Chloroprene Concentration: 53.1393 ug/L

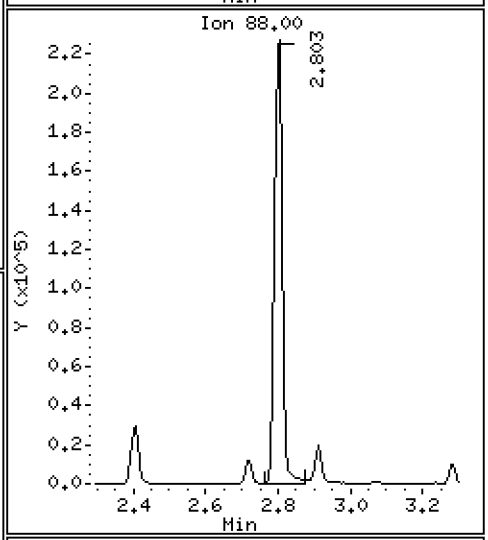


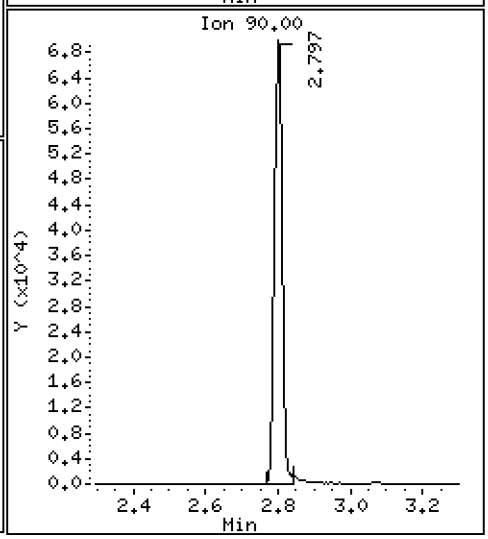












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 39

Date : 26-OCT-2016 19:41

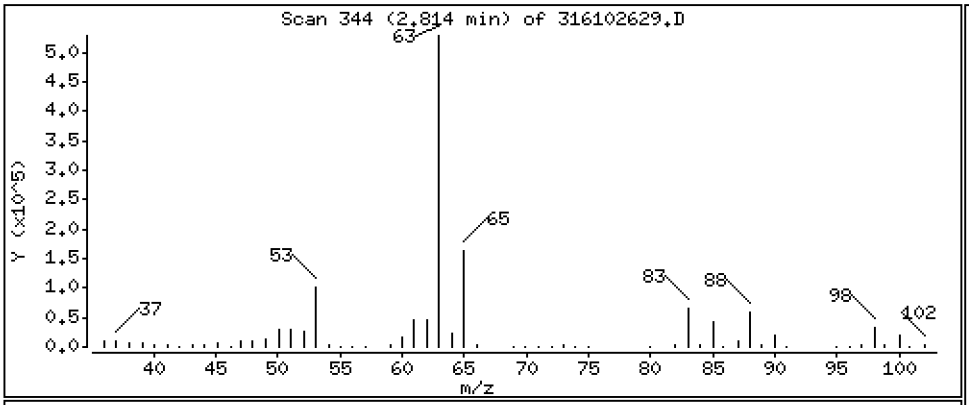
Client ID: Instrument: ms03.i

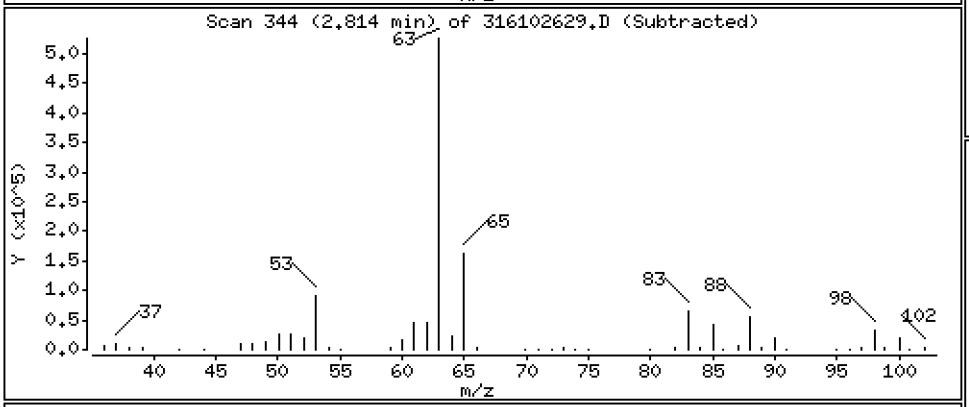
Sample Info: 1801;;1;2;4;;;

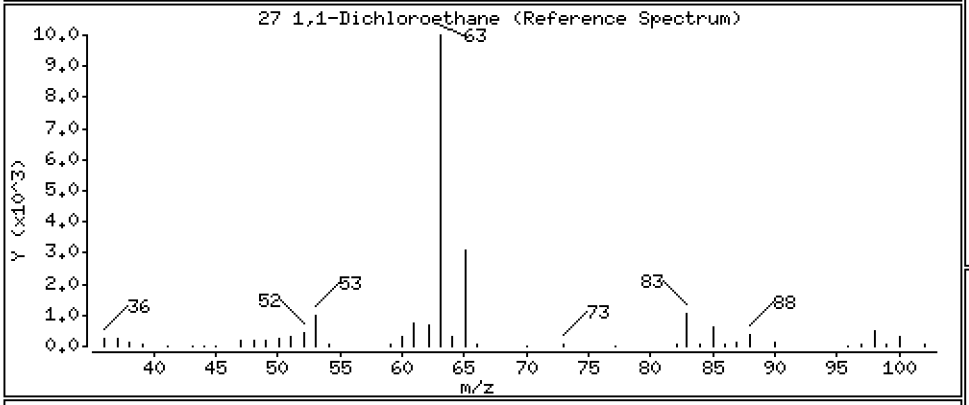
Purge Volume: 5.0 Operator: DD

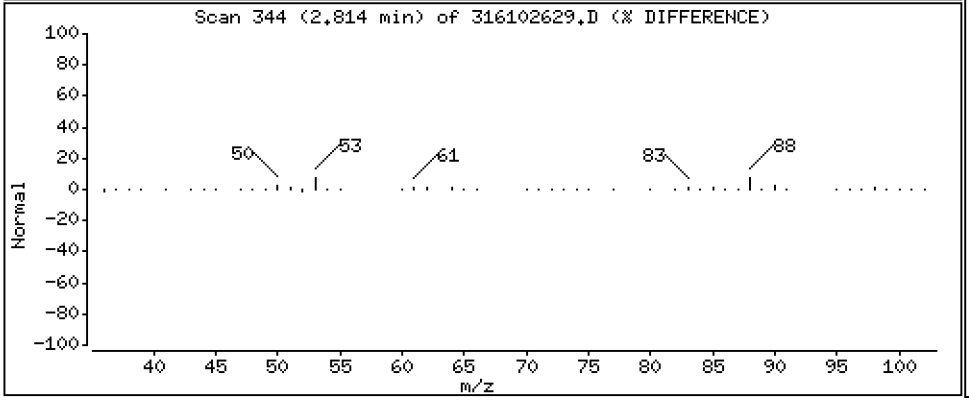
Column phase: DB-VRX Column diameter: 0.25

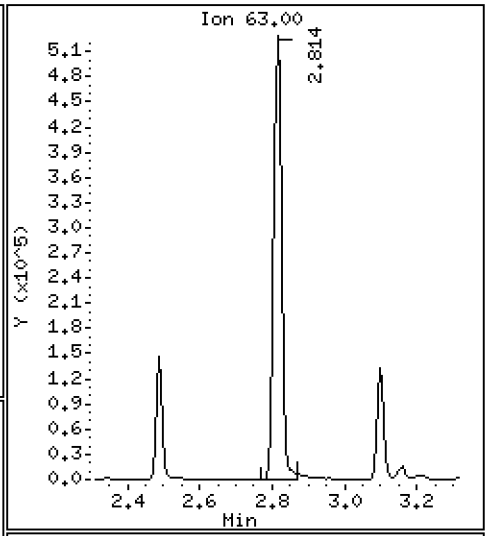
27 1,1-Dichloroethane Concentration: 48.8696 ug/L

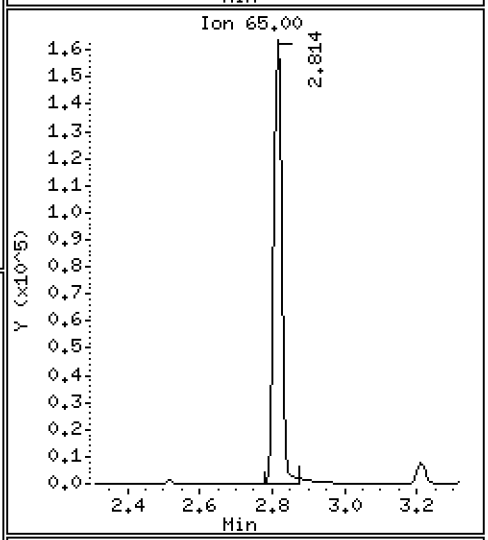


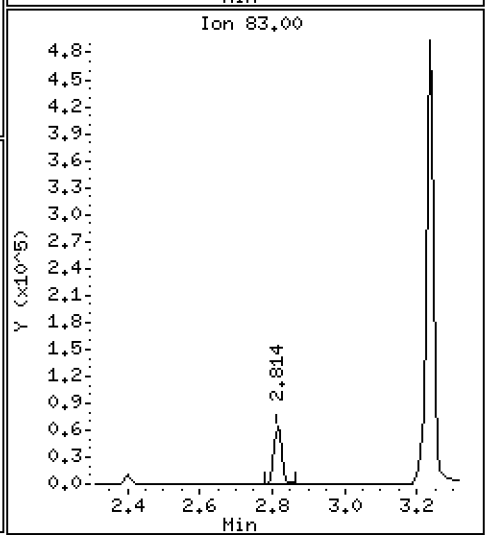












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 40

Date : 26-OCT-2016 19:41

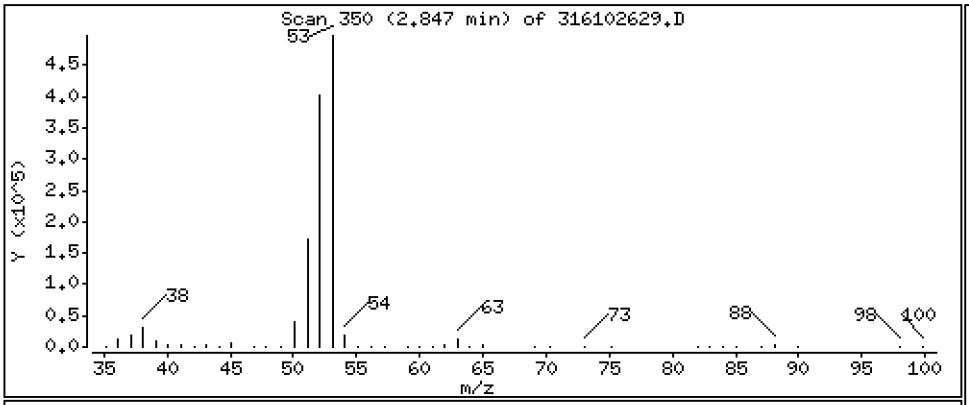
Client ID: Instrument: ms03.i

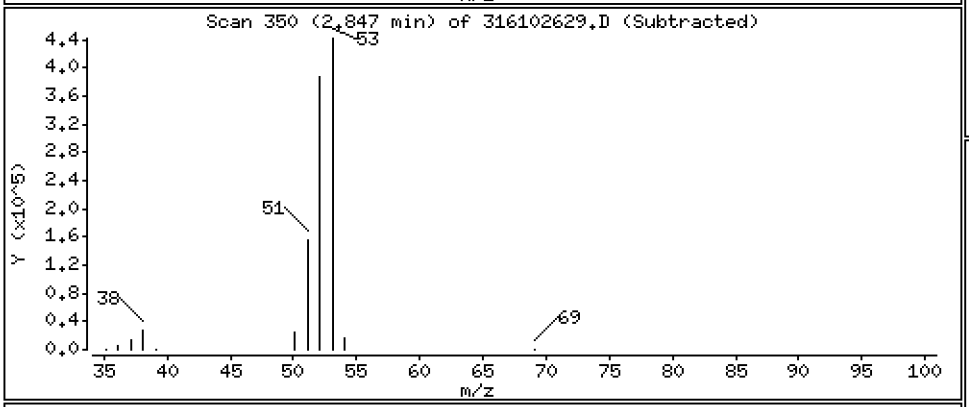
Sample Info: 1801;;1;2;4;;;

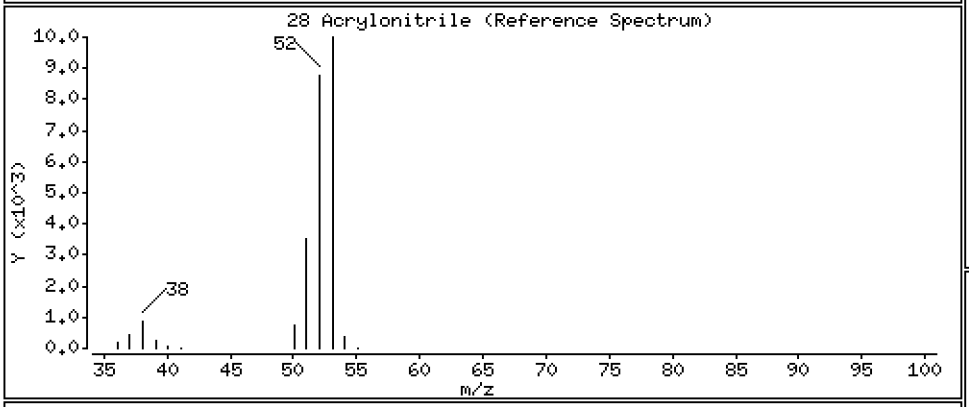
Purge Volume: 5.0 Operator: DD

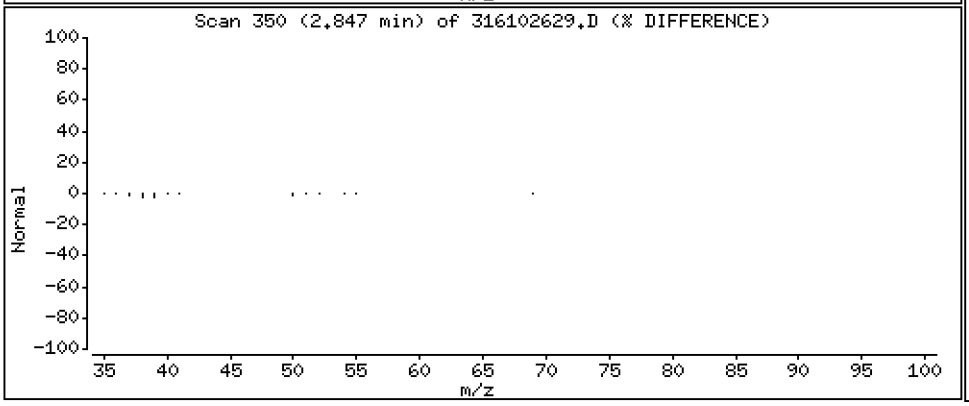
Column phase: DB-VRX Column diameter: 0.25

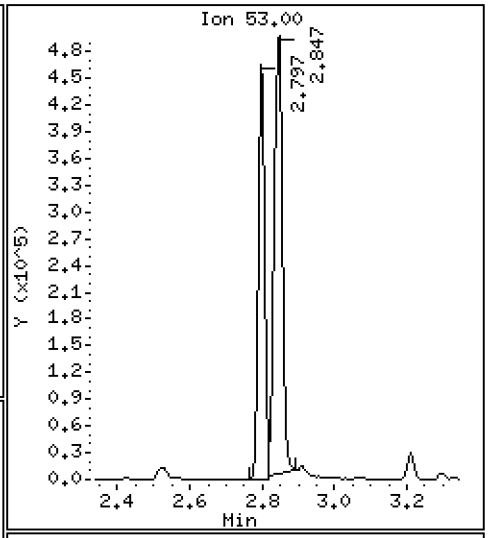
28 Acrylonitrile Concentration: 260.244 ug/L

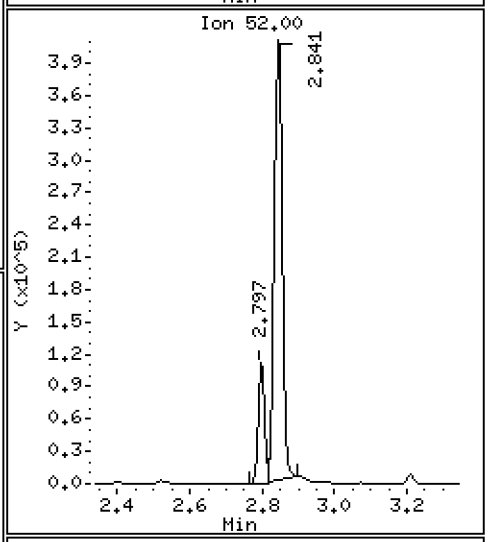


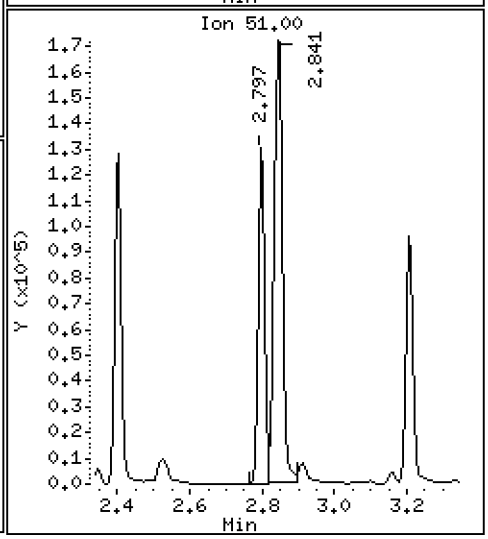












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 41

Date : 26-OCT-2016 19:41

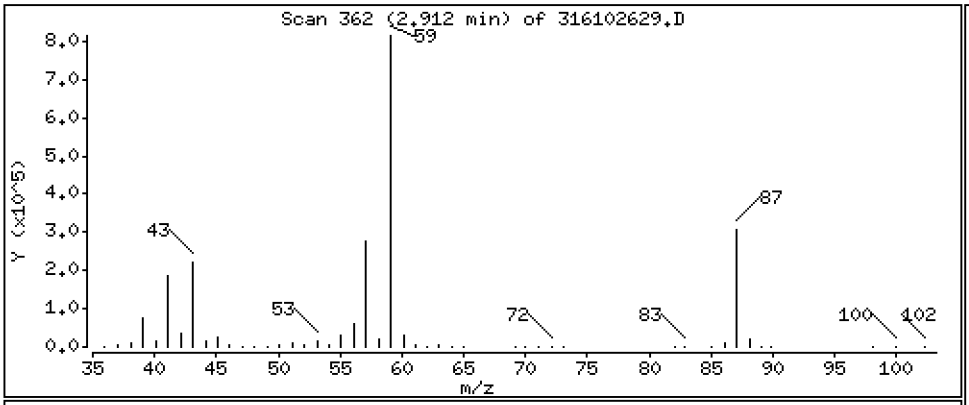
Client ID: Instrument: ms03.i

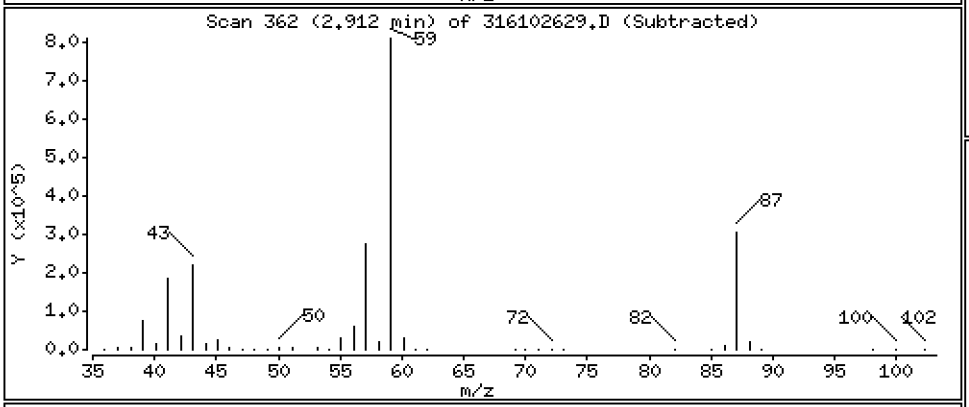
Sample Info: 1801;;1;2;4;;;

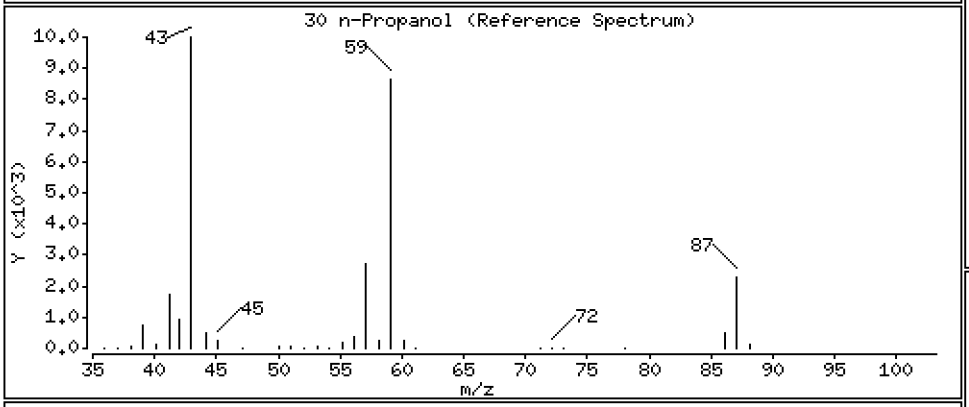
Purge Volume: 5.0 Operator: DD

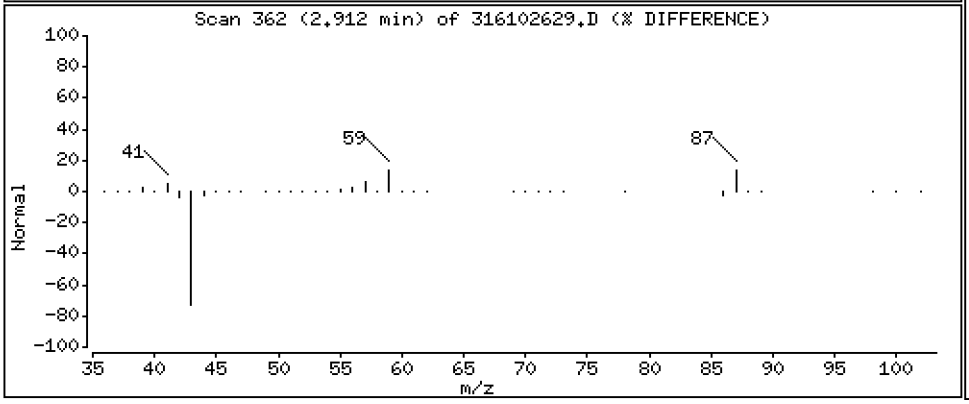
Column phase: DB-VRX Column diameter: 0.25

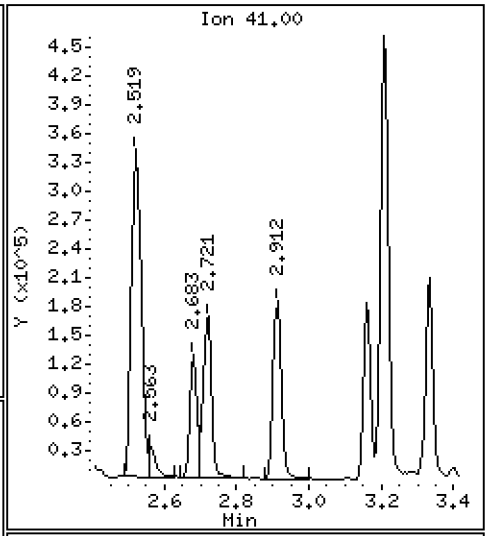
30 n-Propanol Concentration: 584.866 ug/L

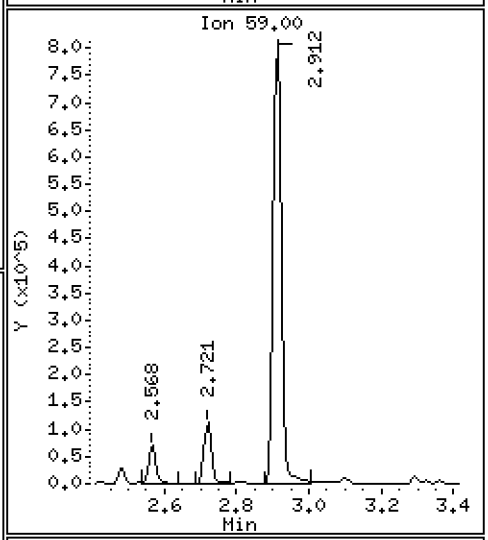


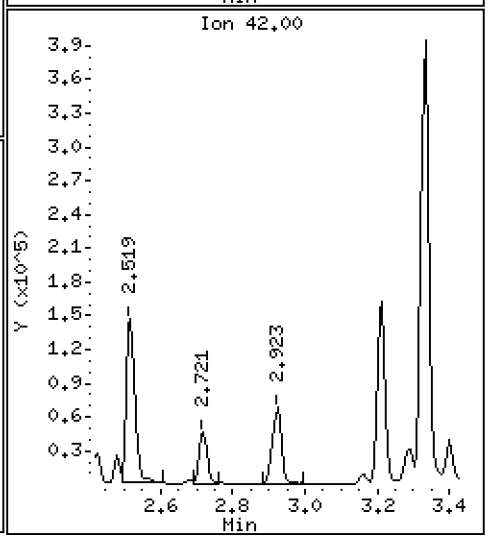












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 42

Date : 26-OCT-2016 19:41

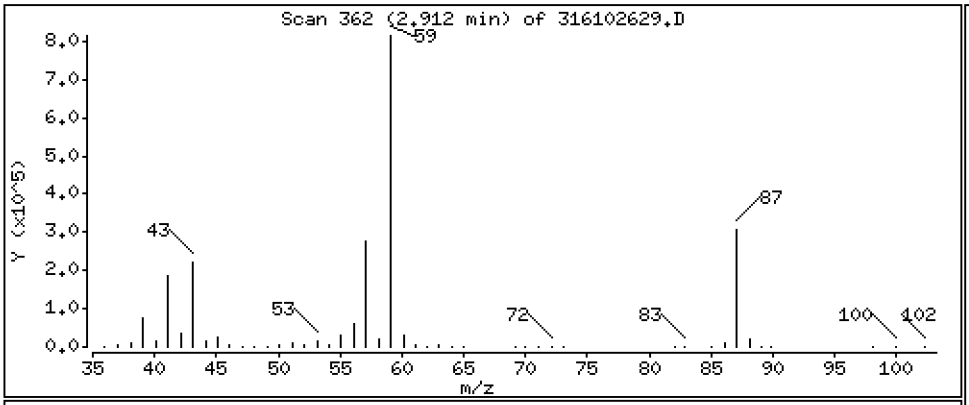
Client ID: Instrument: ms03.i

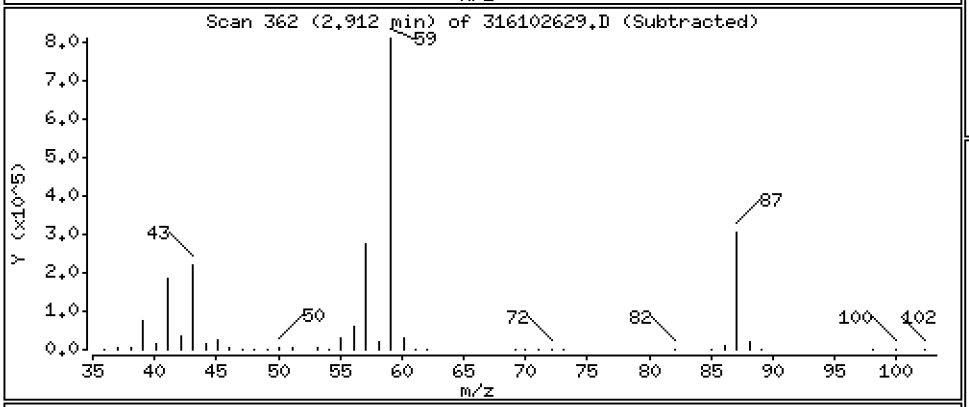
Sample Info: 1801;;1;2;4;;;

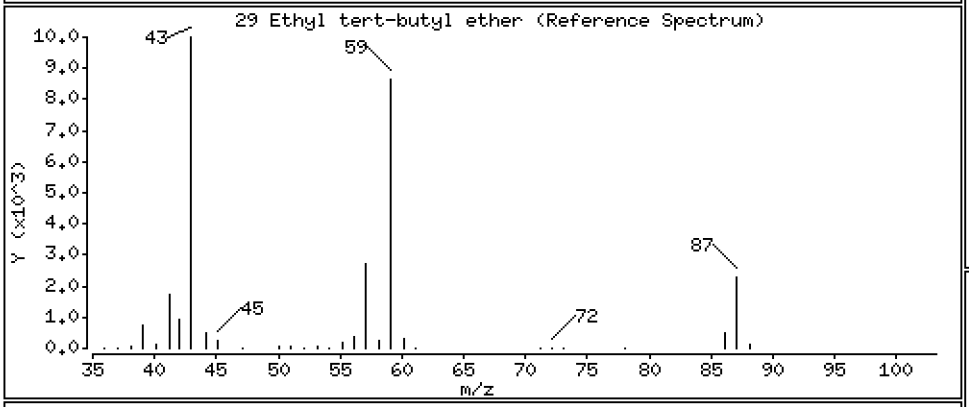
Purge Volume: 5.0 Operator: DD

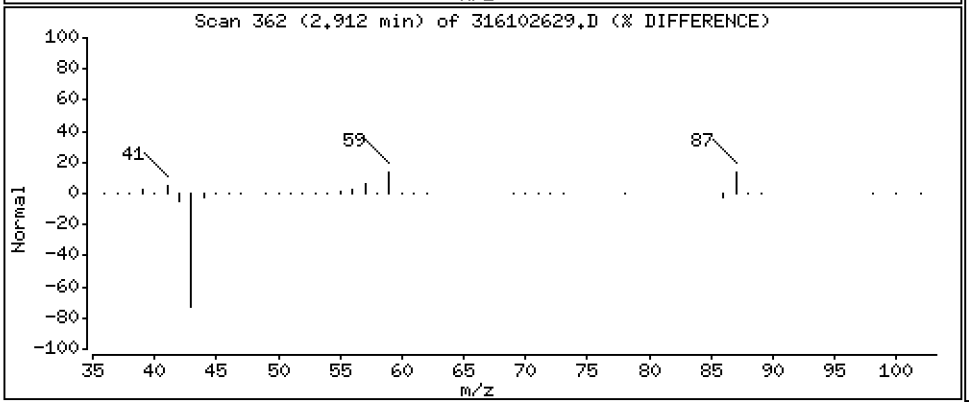
Column phase: DB-VRX Column diameter: 0.25

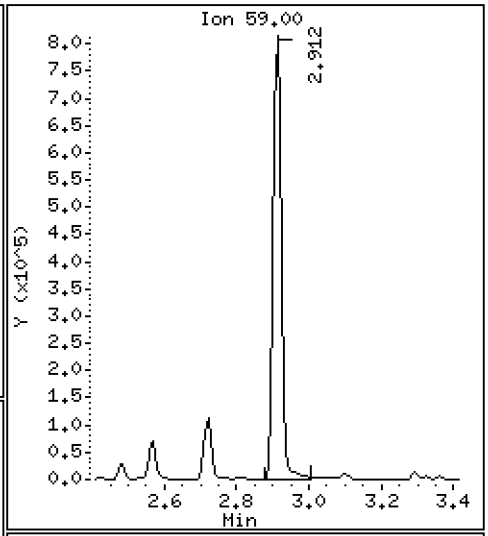
29 Ethyl tert-butyl ether Concentration: 52.3794 ug/L

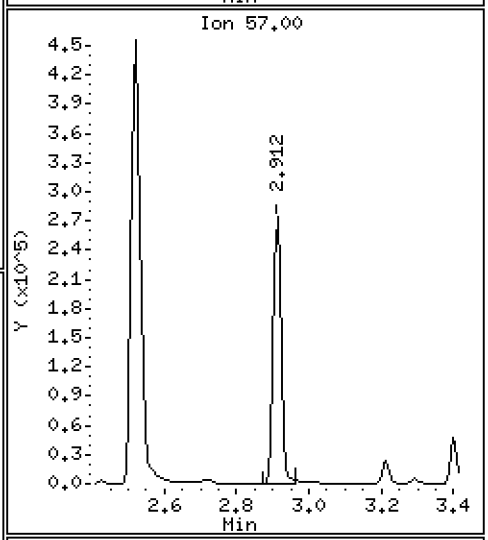


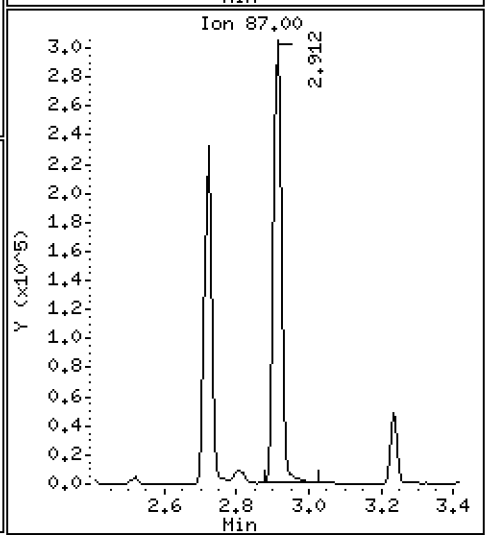












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 43

Date : 26-OCT-2016 19:41

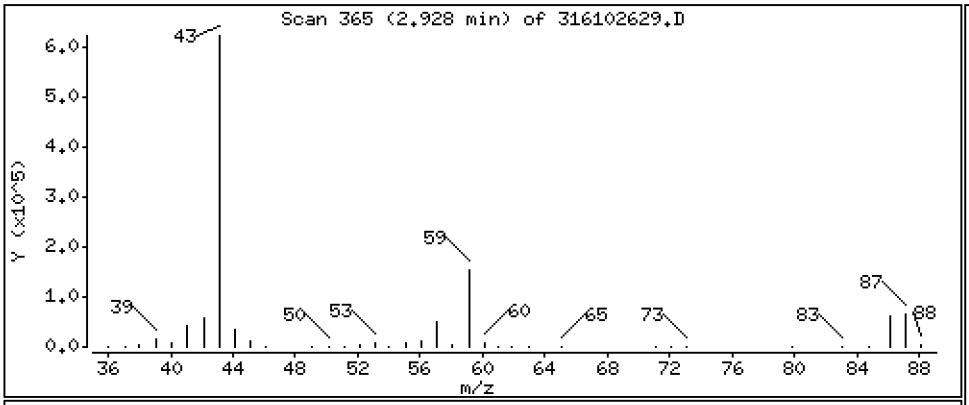
Client ID: Instrument: ms03.i

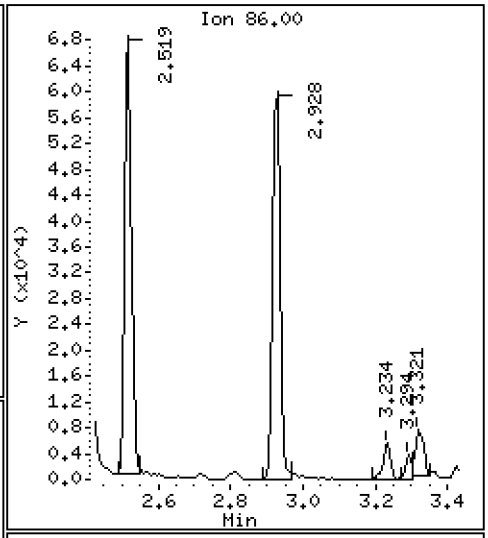
Sample Info: 1801;;1;2;4;;;

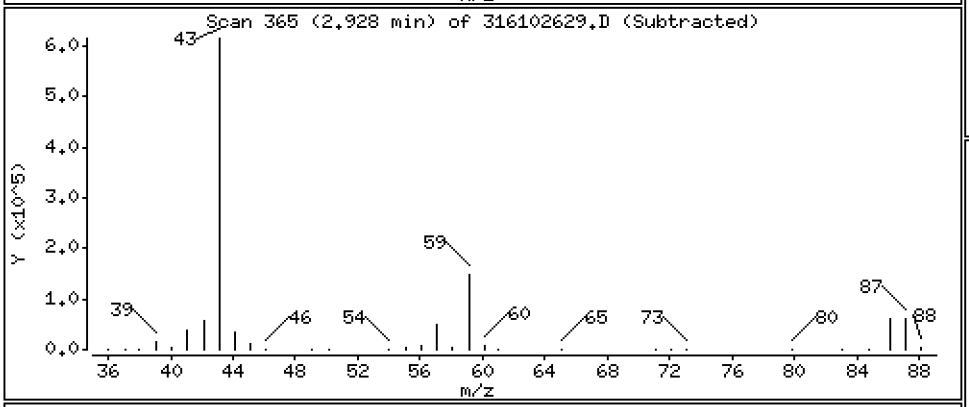
Purge Volume: 5.0 Operator: DD

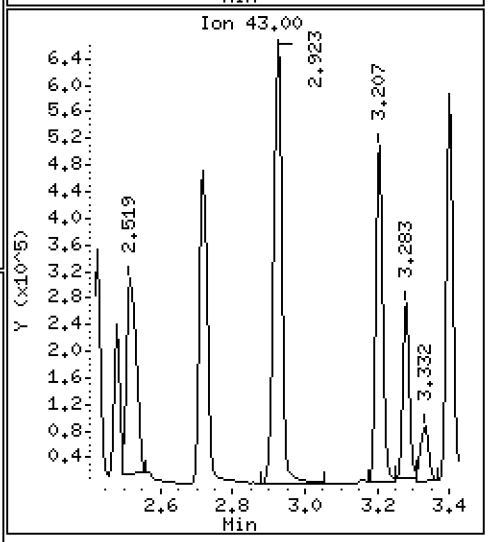
Column phase: DB-VRX Column diameter: 0.25

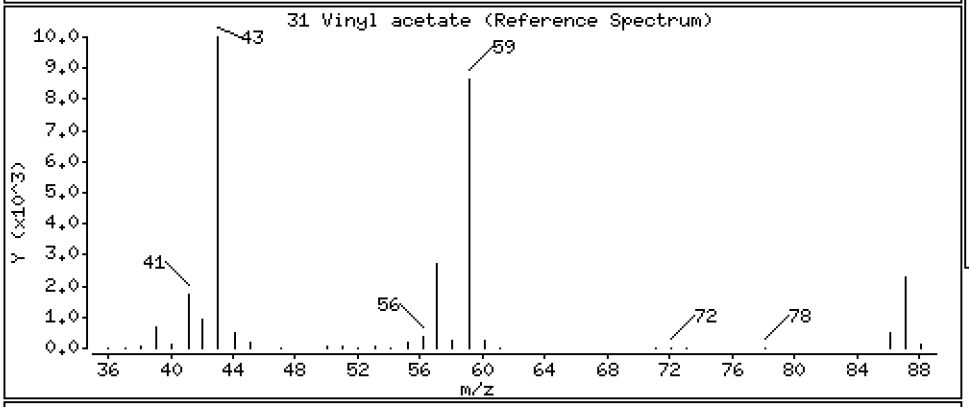
31 Vinyl acetate Concentration: 46.8232 ug/L

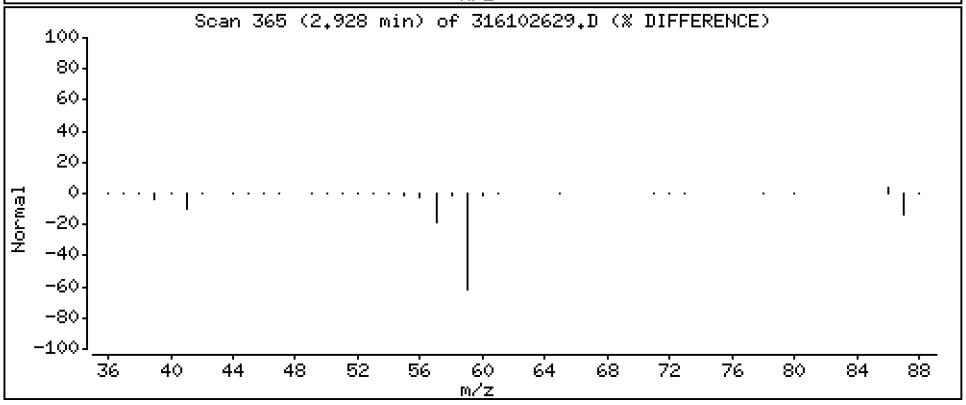












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 44

Date : 26-OCT-2016 19:41

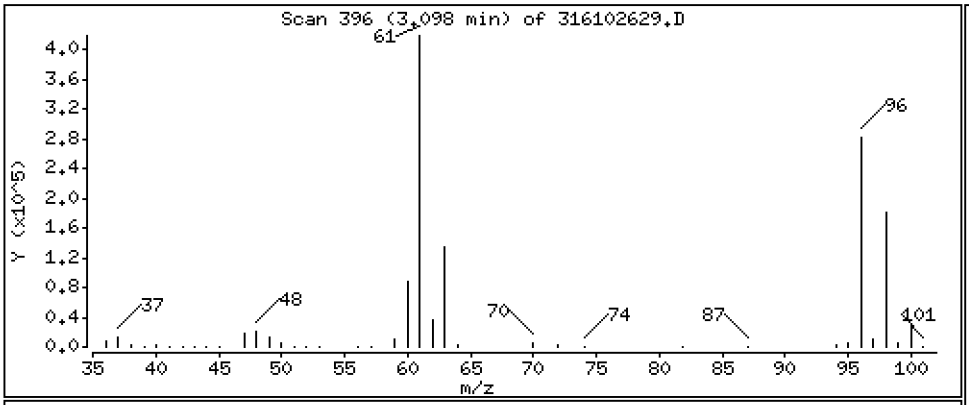
Client ID: Instrument: ms03.i

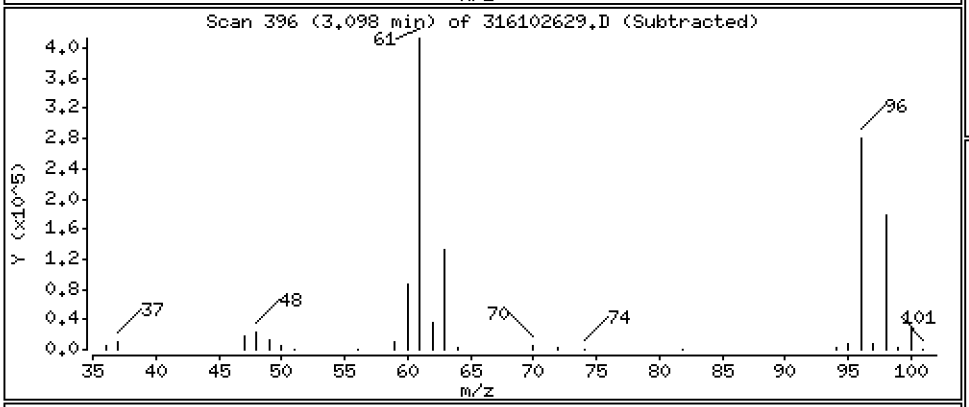
Sample Info: 1801;;1;2;4;;;

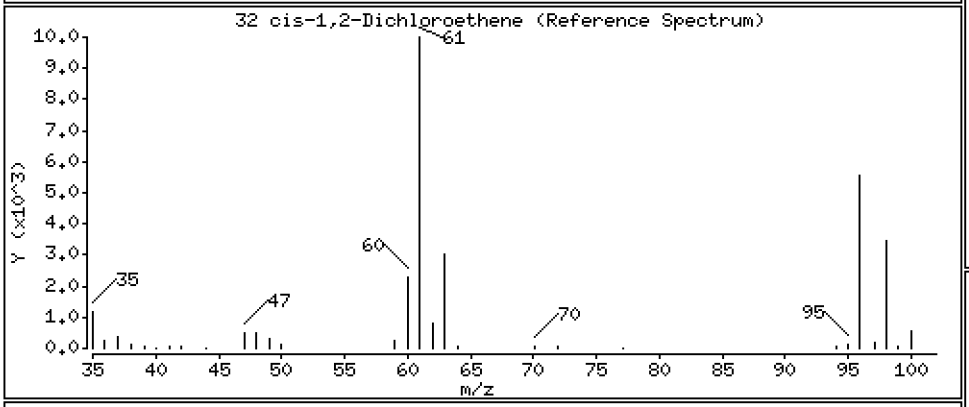
Purge Volume: 5.0 Operator: DD

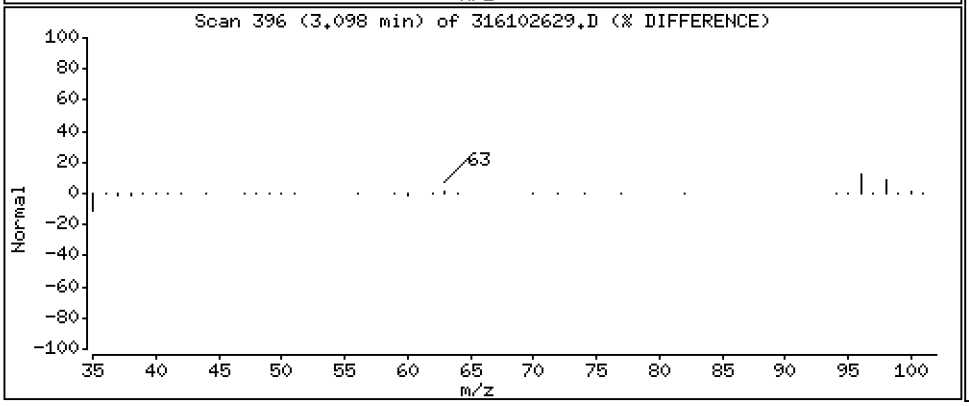
Column phase: DB-VRX Column diameter: 0.25

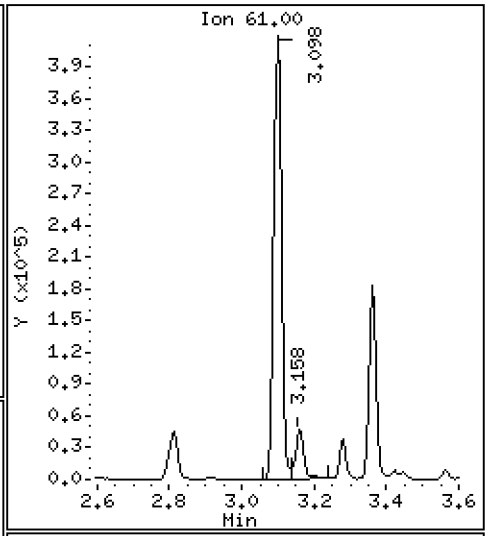
32 cis-1,2-Dichloroethene Concentration: 49.3973 ug/L

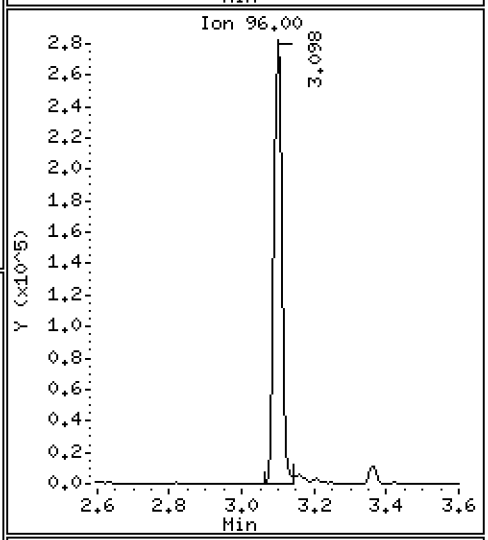


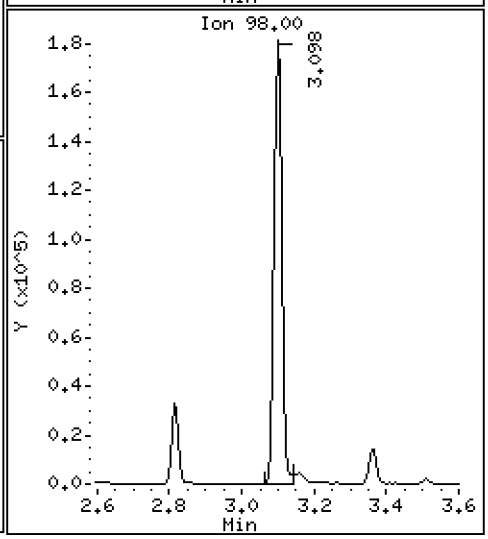












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 45

Date : 26-OCT-2016 19:41

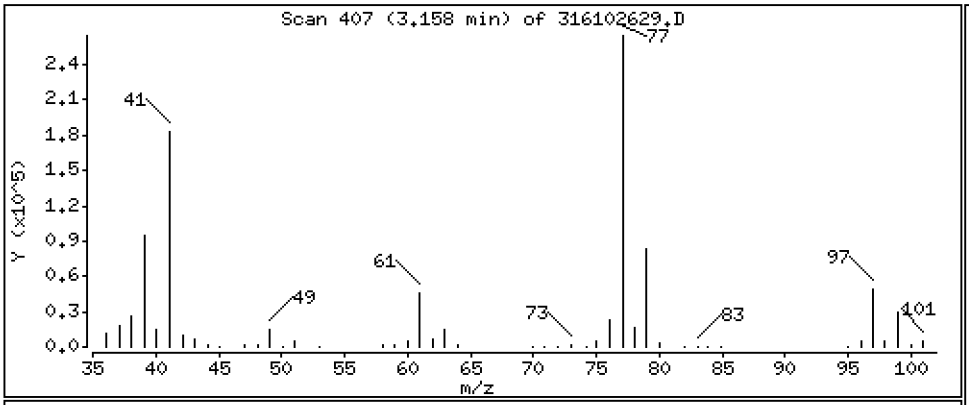
Client ID: Instrument: ms03.i

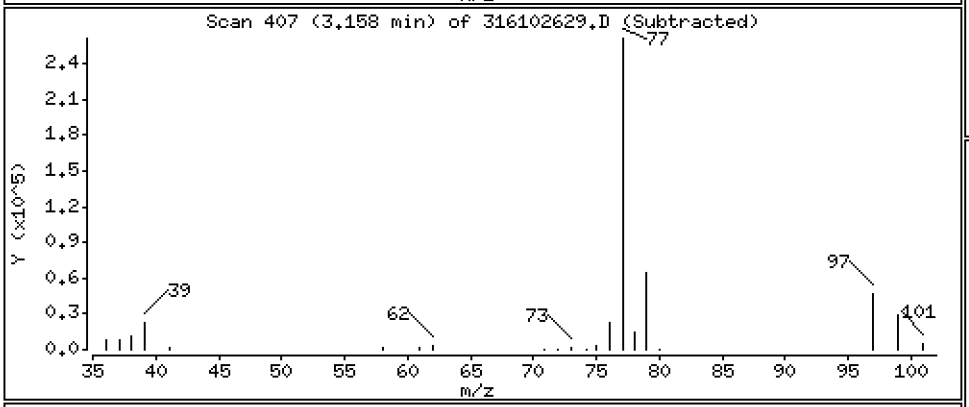
Sample Info: 1801;;1;2;4;;;

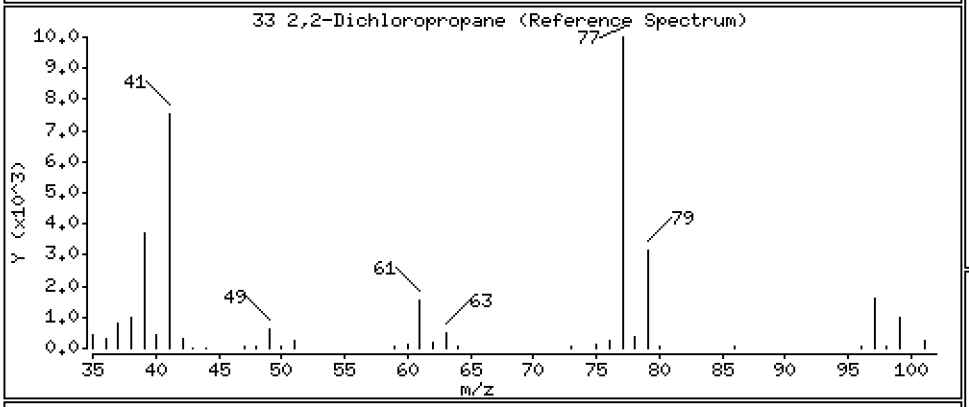
Purge Volume: 5.0 Operator: DD

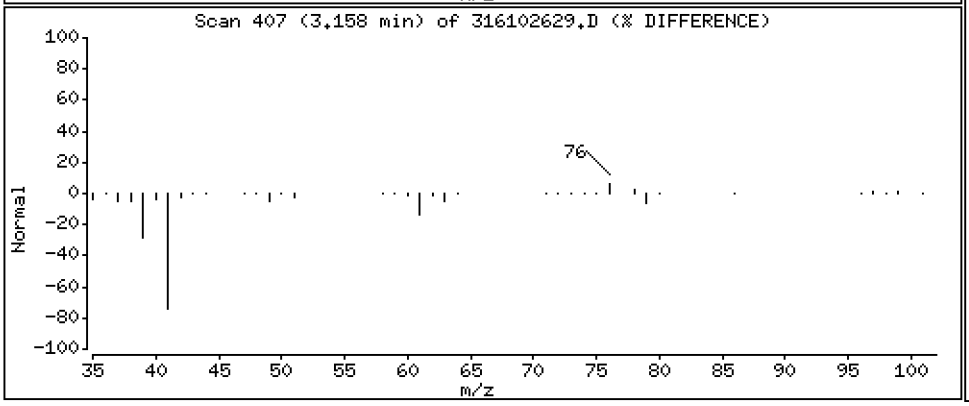
Column phase: DB-VRX Column diameter: 0.25

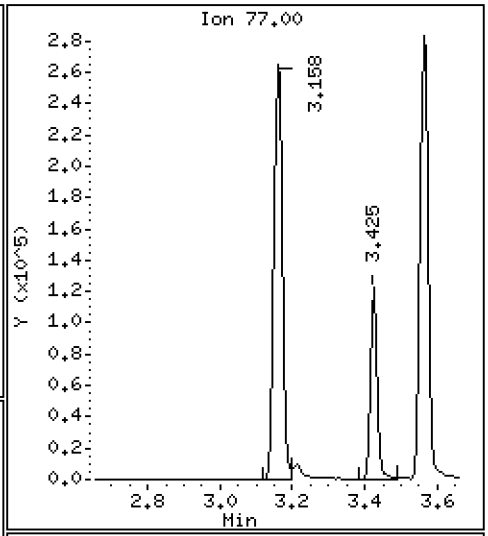
33 2,2-Dichloropropane Concentration: 42.8275 ug/L

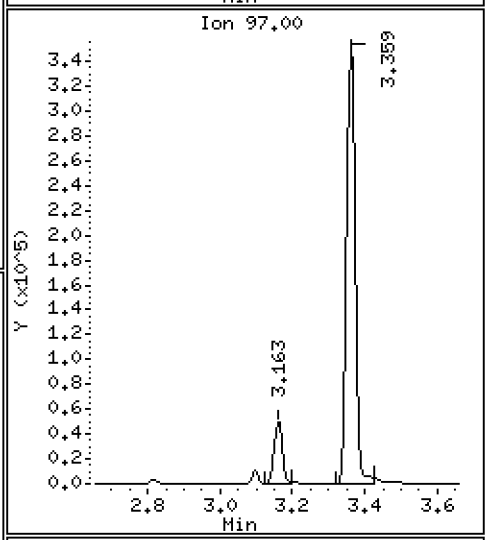


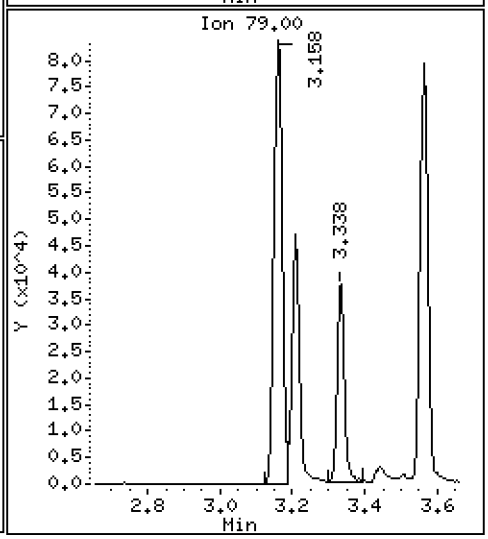












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 46

Date : 26-OCT-2016 19:41

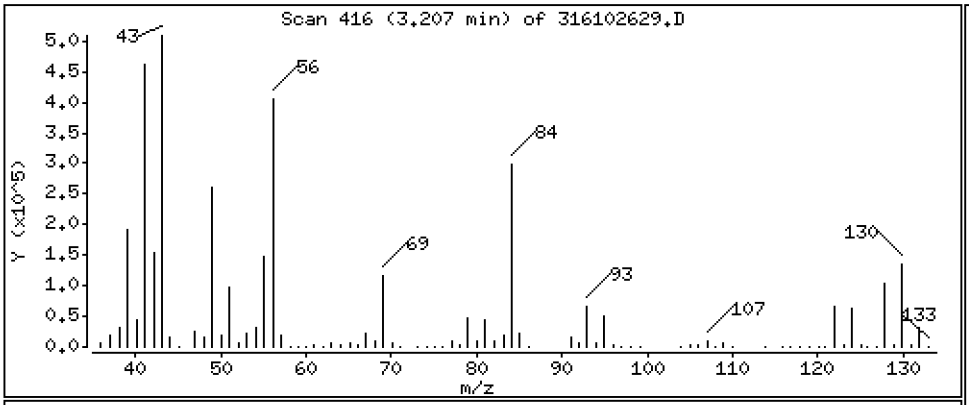
Client ID: Instrument: ms03.i

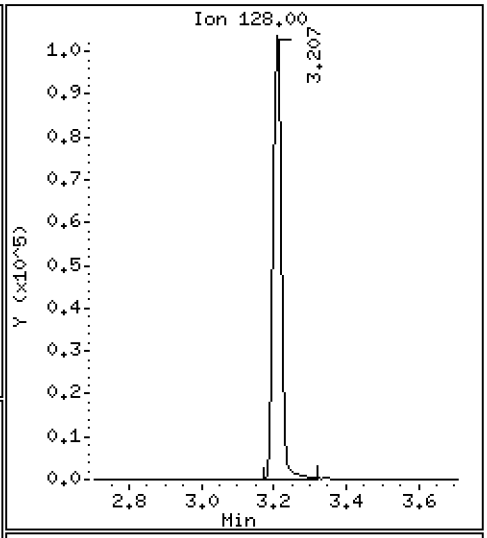
Sample Info: 1801;;1;2;4;;;

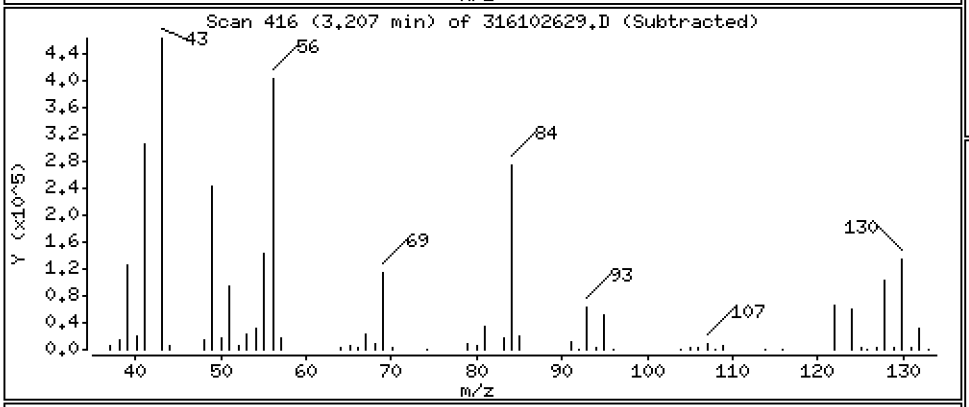
Purge Volume: 5.0 Operator: DD

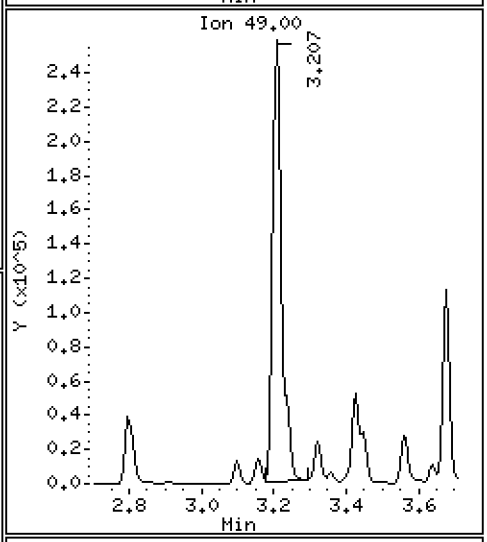
Column phase: DB-VRX Column diameter: 0.25

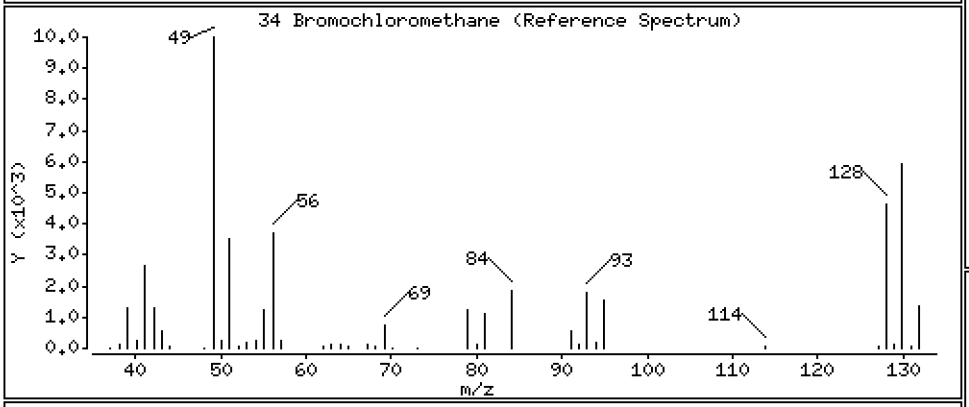
34 Bromochloromethane Concentration: 47.1265 ug/L

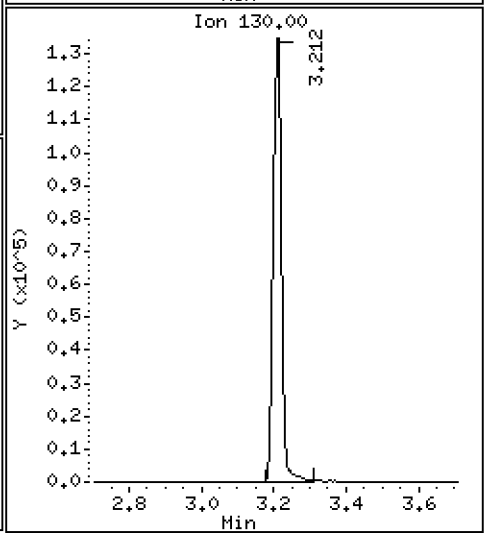


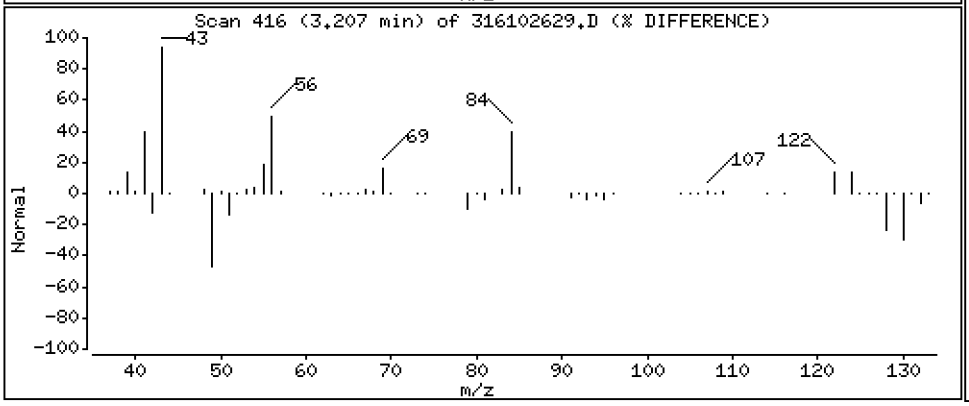












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 47

Date : 26-OCT-2016 19:41

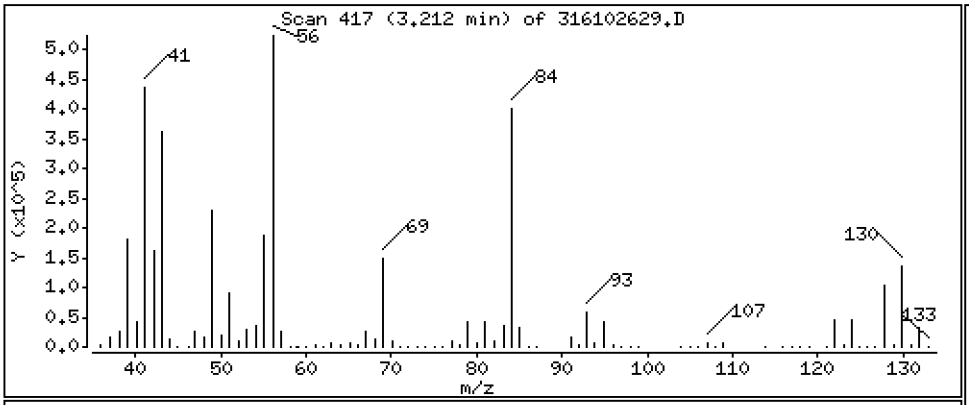
Client ID: Instrument: ms03.i

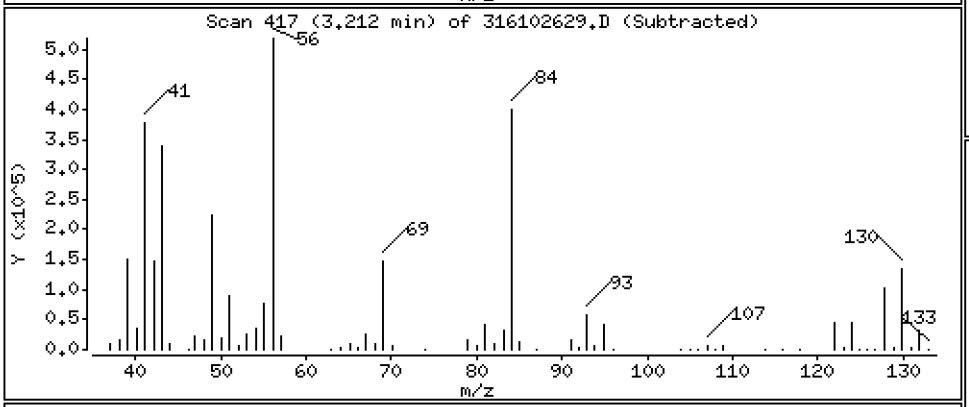
Sample Info: 1801;;1;2;4;;;

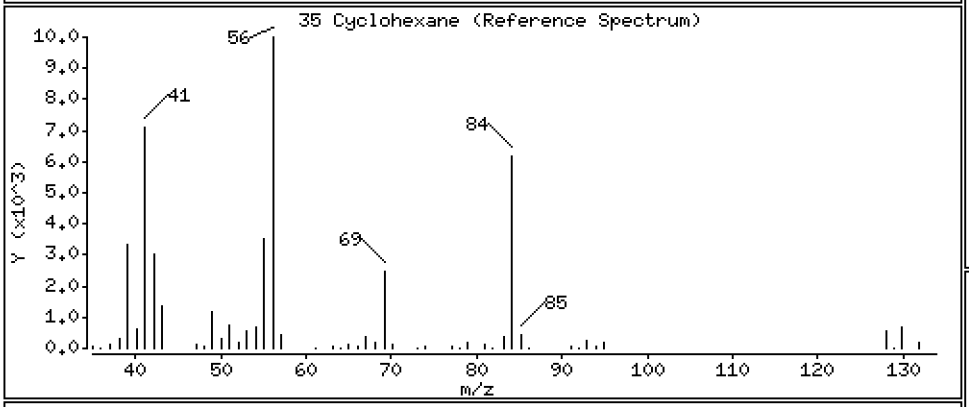
Purge Volume: 5.0 Operator: DD

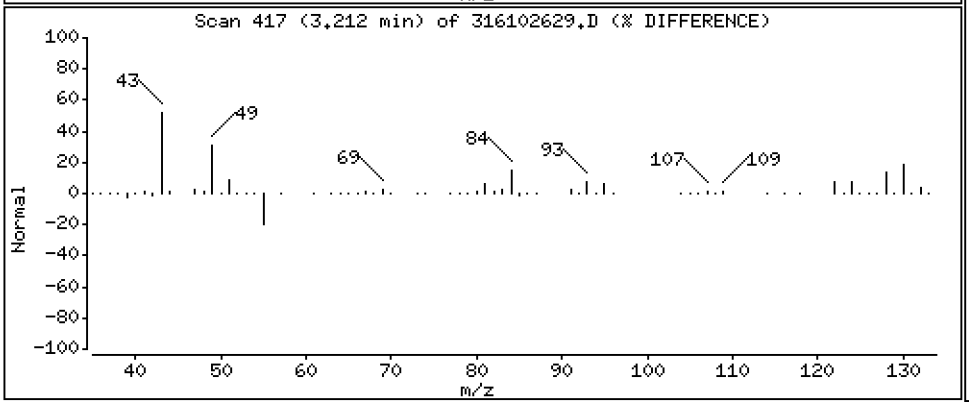
Column phase: DB-VRX Column diameter: 0.25

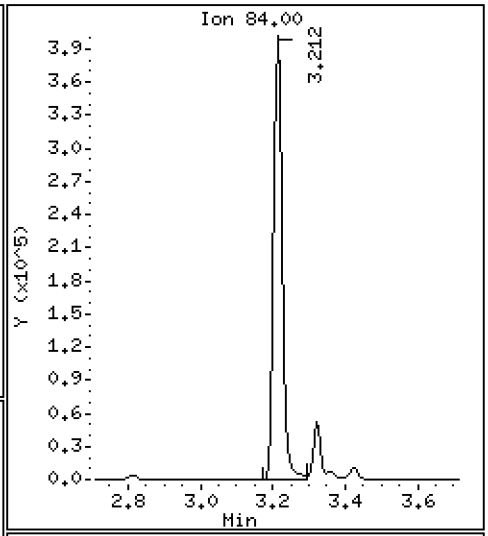
35 Cyclohexane Concentration: 49.2188 ug/L

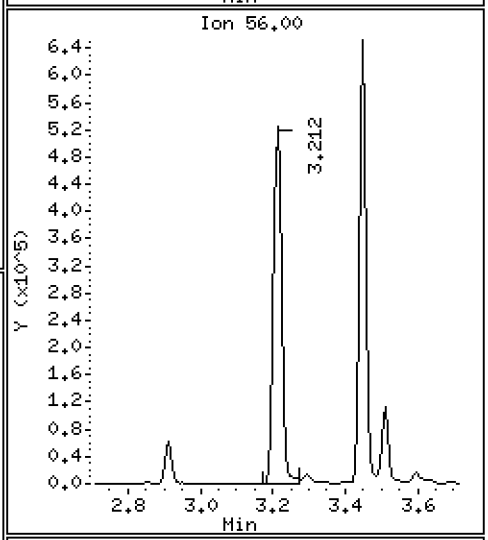


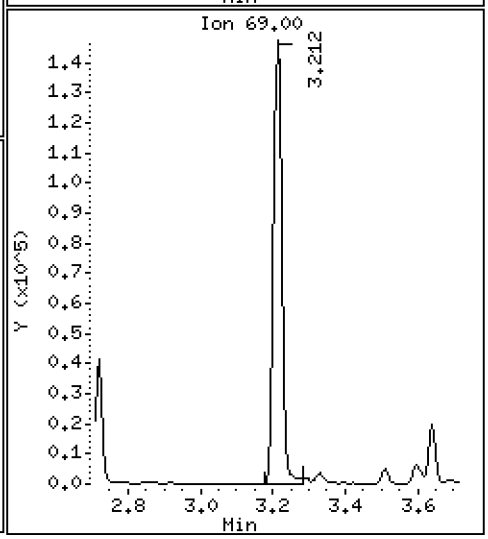












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 48

Date : 26-OCT-2016 19:41

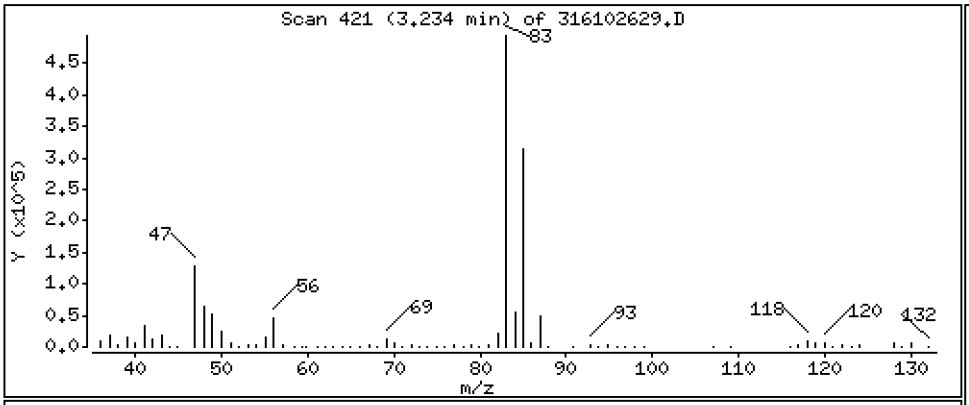
Client ID: Instrument: ms03.i

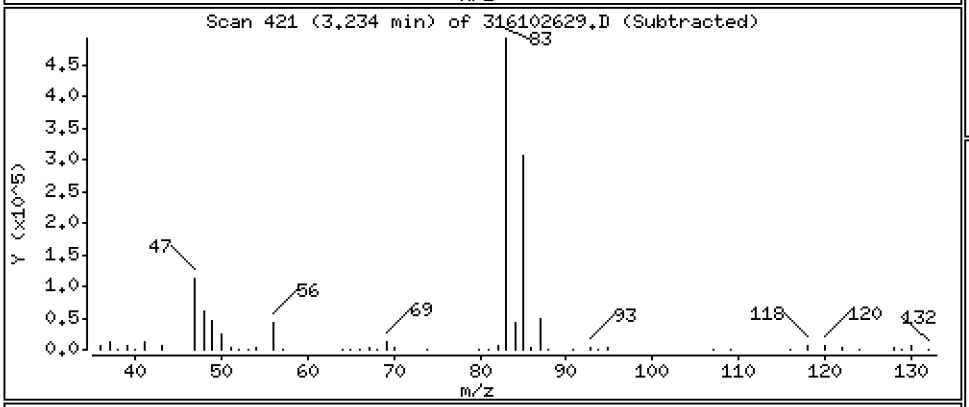
Sample Info: 1801;;1;2;4;;;

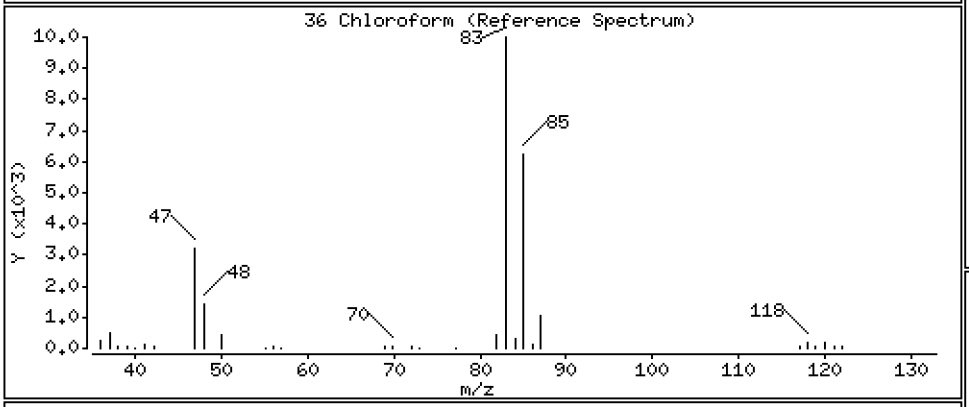
Purge Volume: 5.0 Operator: DD

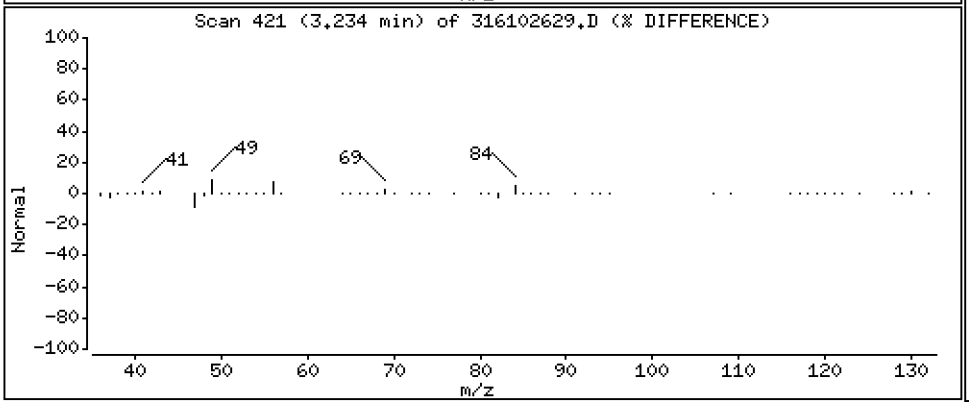
Column phase: DB-VRX Column diameter: 0.25

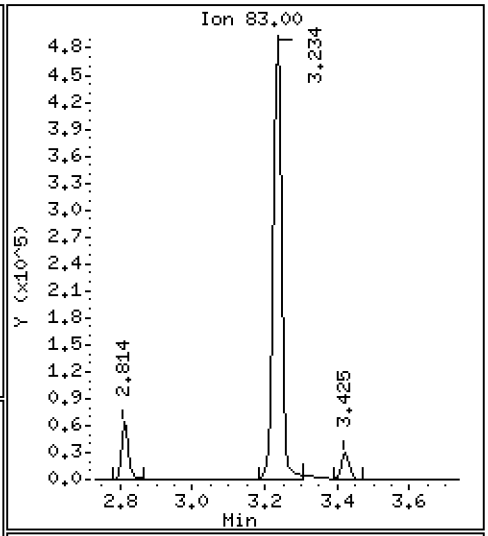
36 Chloroform Concentration: 52.4492 ug/L

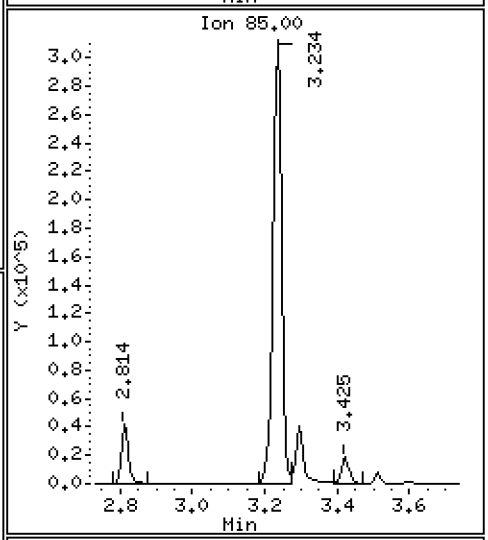


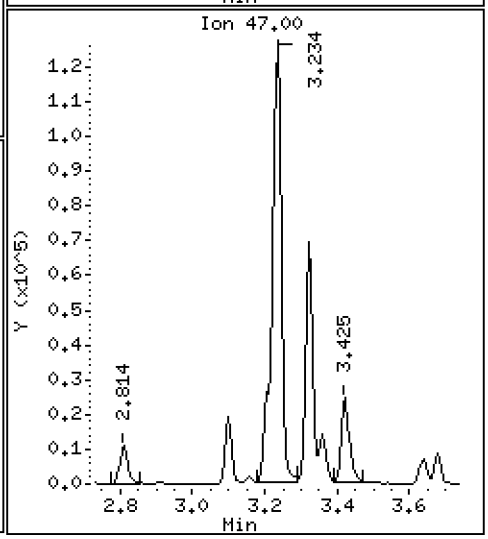












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 49

Date : 26-OCT-2016 19:41

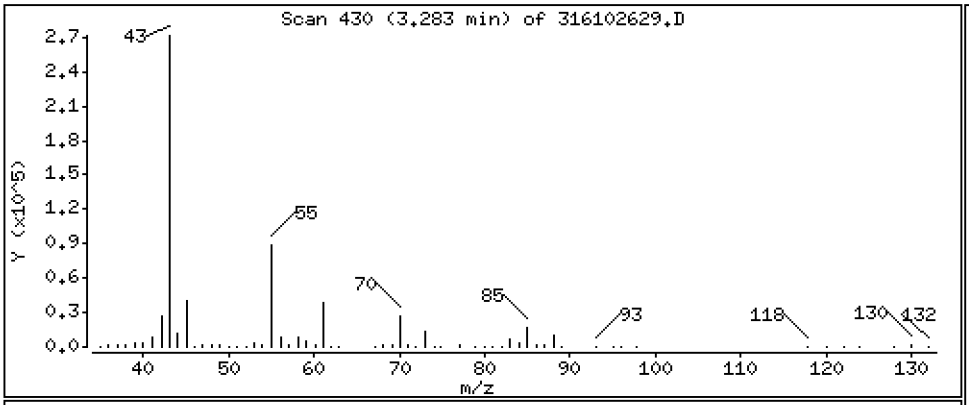
Client ID: Instrument: ms03.i

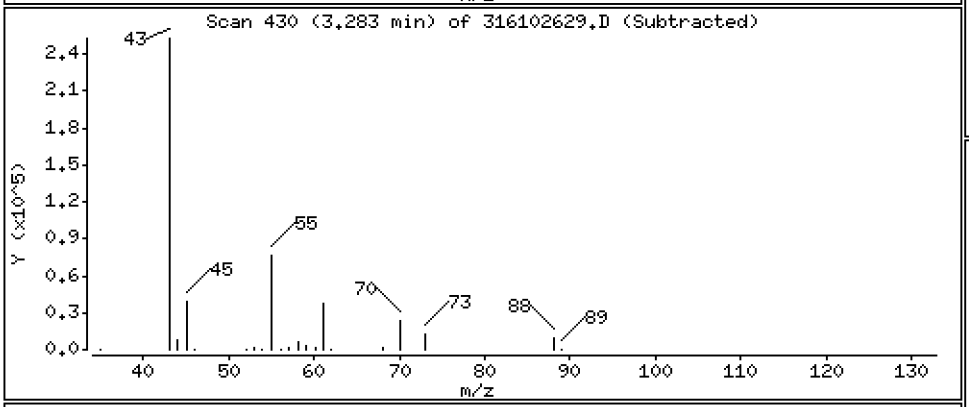
Sample Info: 1801;;1;2;4;;;

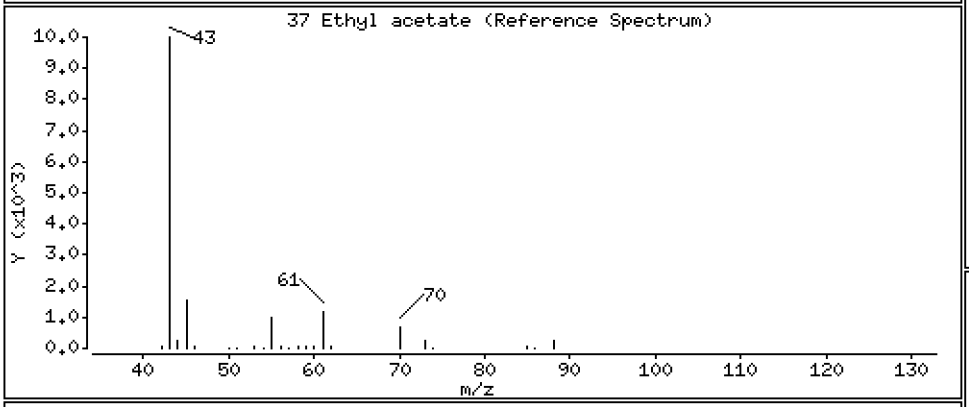
Purge Volume: 5.0 Operator: DD

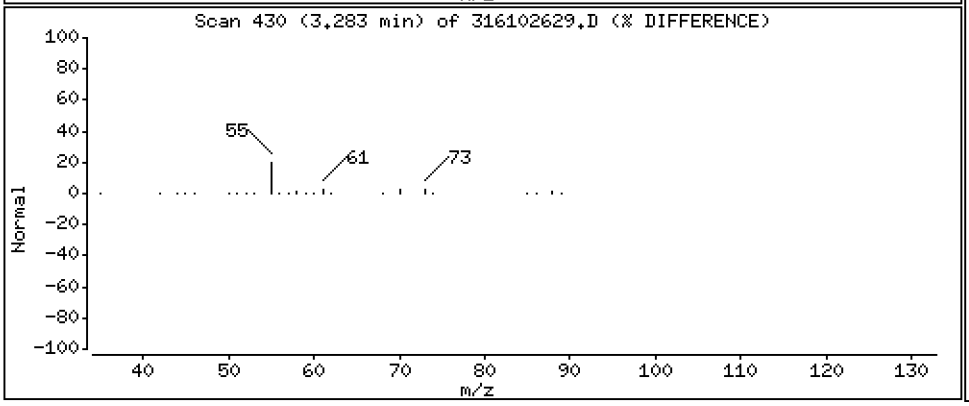
Column phase: DB-VRX Column diameter: 0.25

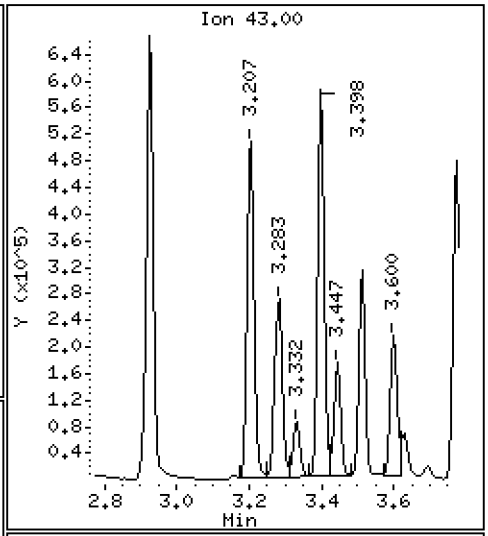
37 Ethyl acetate Concentration: 55.6934 ug/L

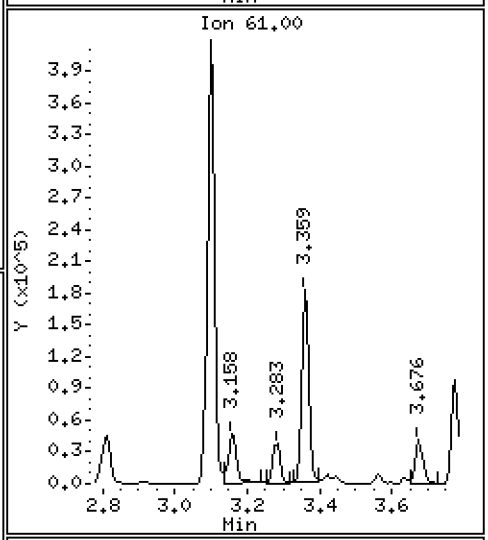


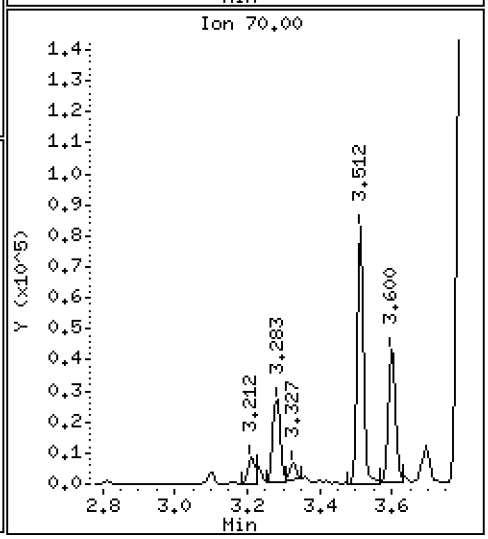












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 50

Date : 26-OCT-2016 19:41

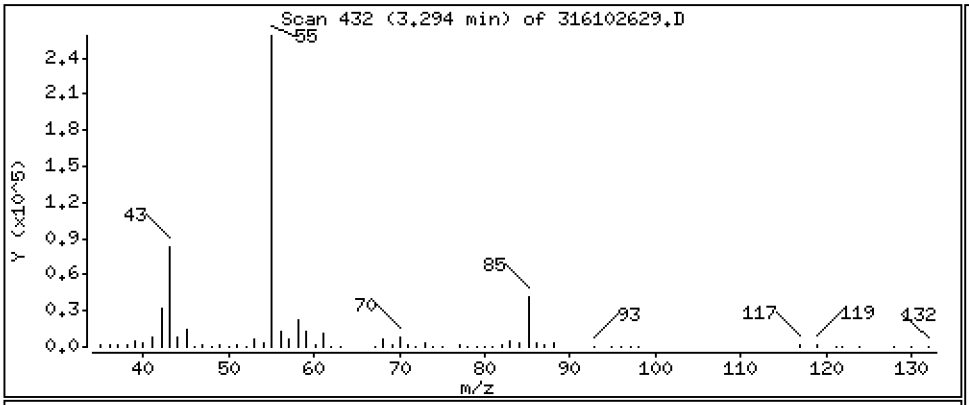
Client ID: Instrument: ms03.i

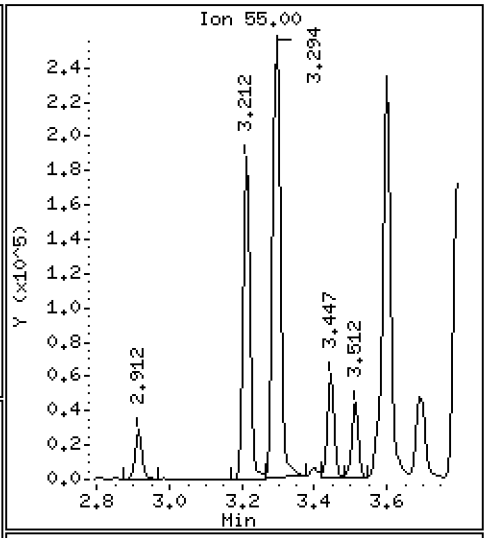
Sample Info: 1801;;1;2;4;;;

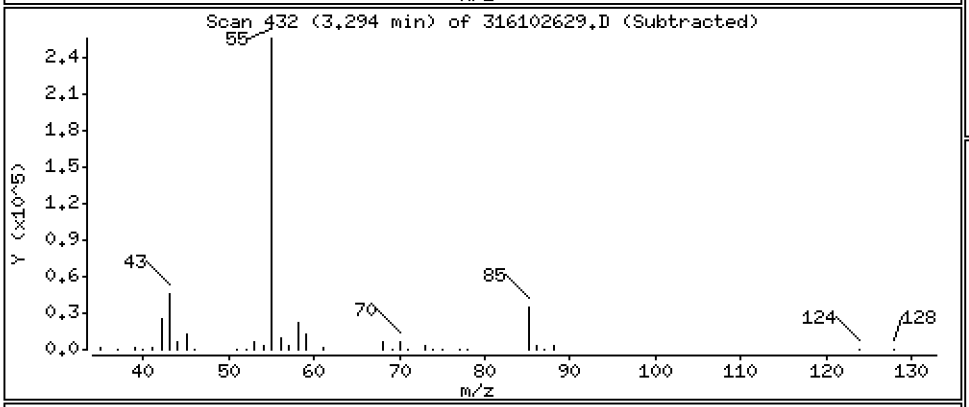
Purge Volume: 5.0 Operator: DD

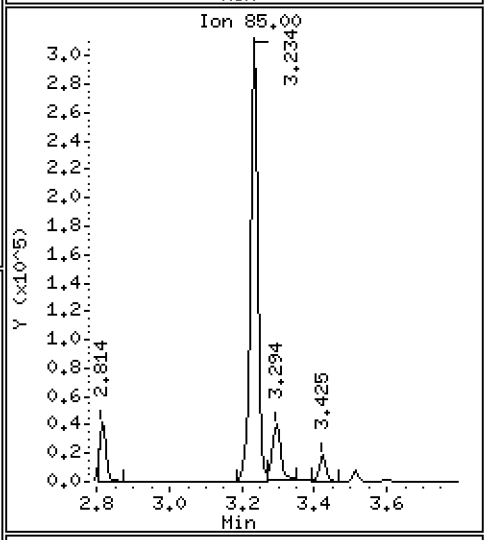
Column phase: DB-VRX Column diameter: 0.25

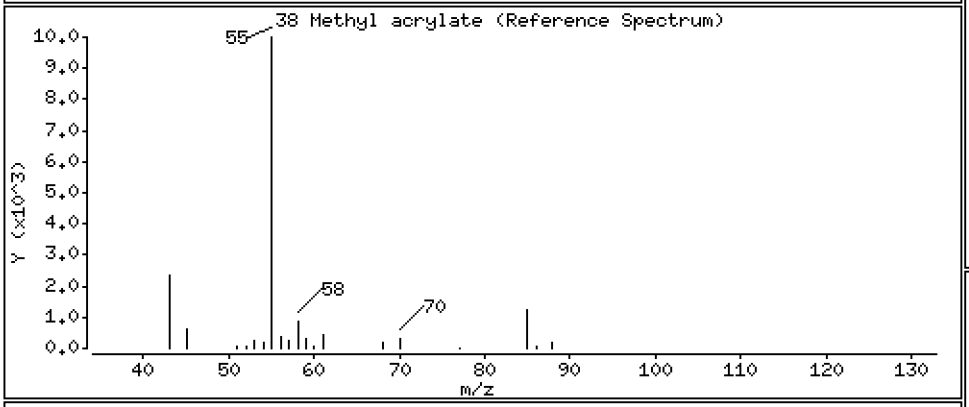
38 Methyl acrylate Concentration: 53.9051 ug/L

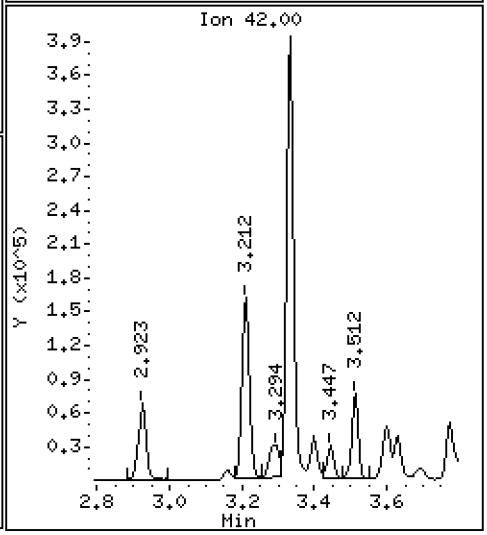


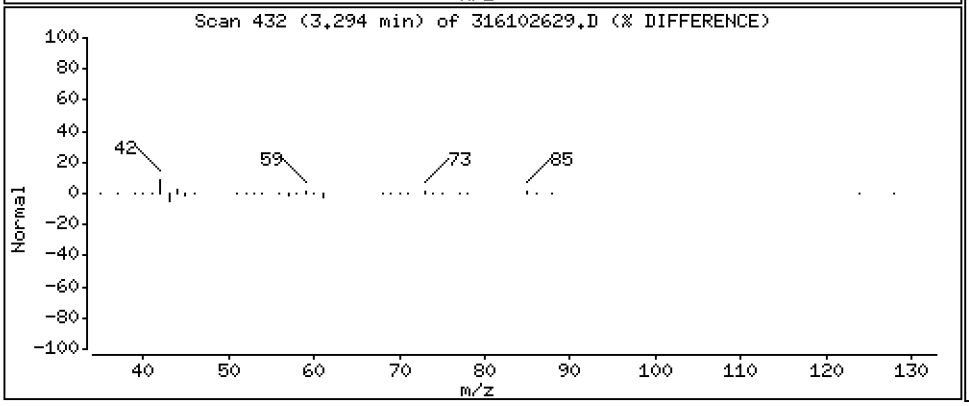












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 51

Date : 26-OCT-2016 19:41

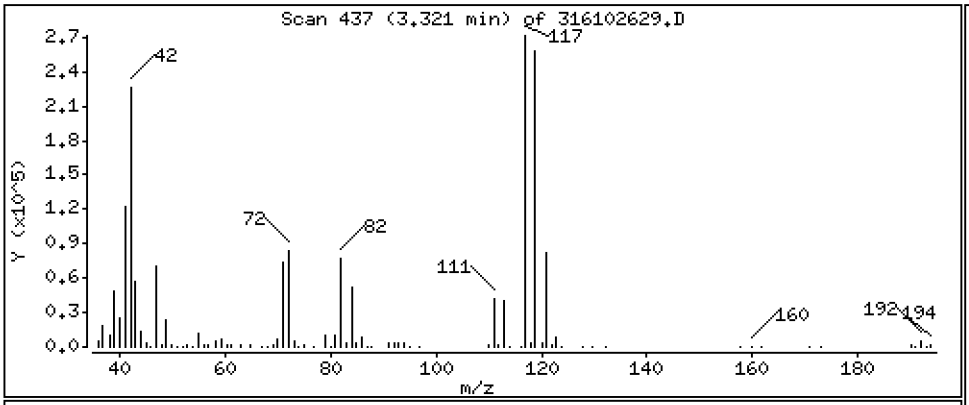
Client ID: Instrument: ms03.i

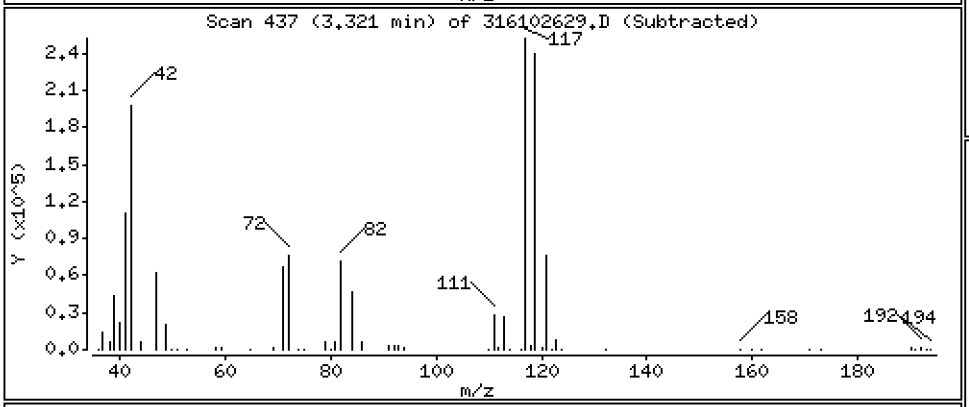
Sample Info: 1801;;1;2;4;;;

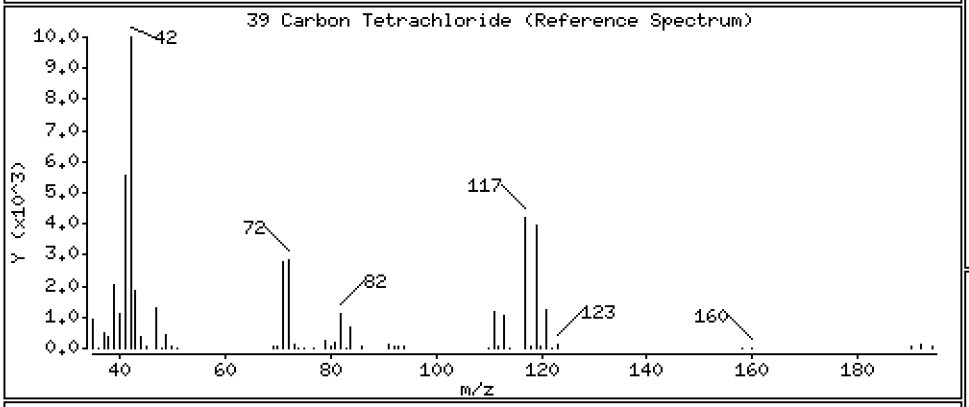
Purge Volume: 5.0 Operator: DD

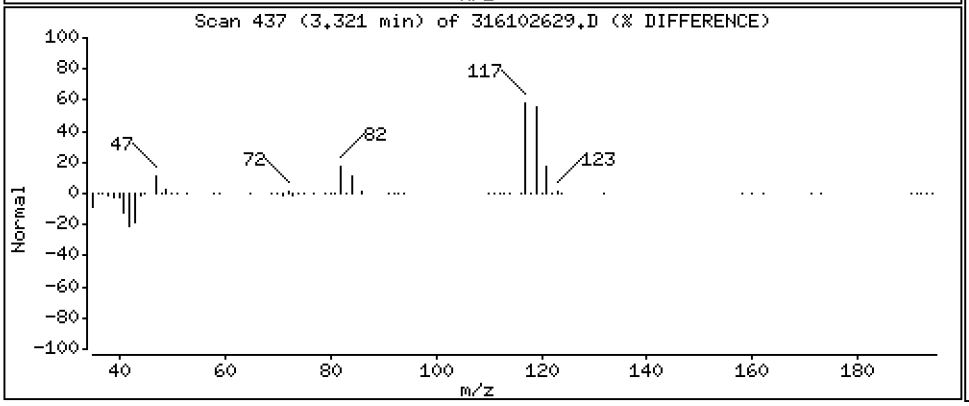
Column phase: DB-VRX Column diameter: 0.25

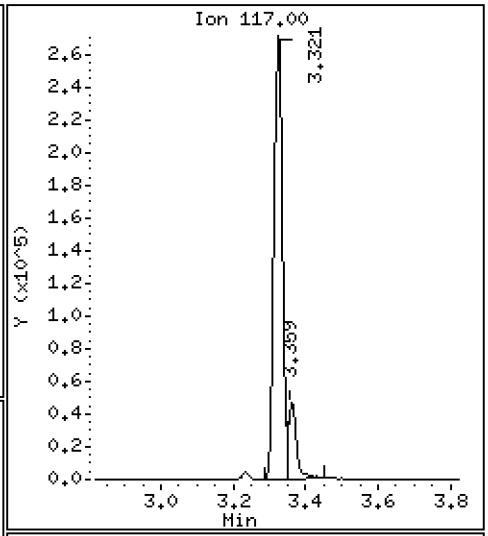
39 Carbon Tetrachloride Concentration: 50.7686 ug/L

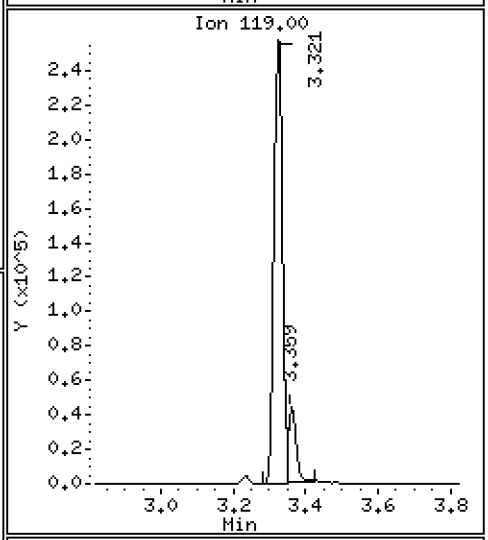


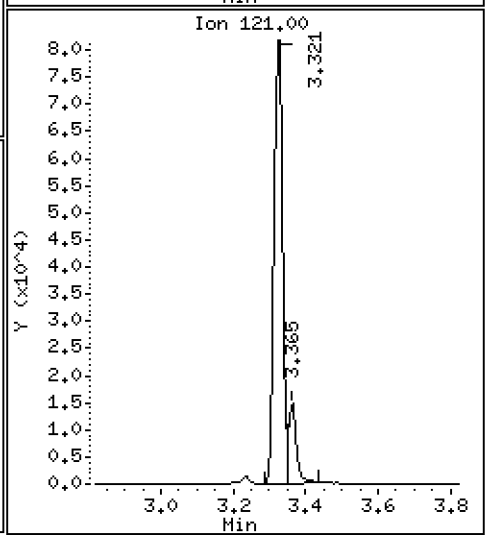












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 52

Date : 26-OCT-2016 19:41

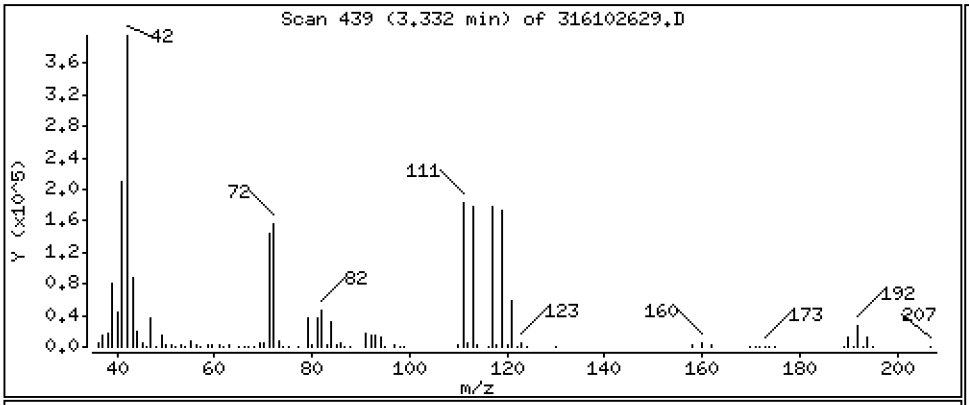
Client ID: Instrument: ms03.i

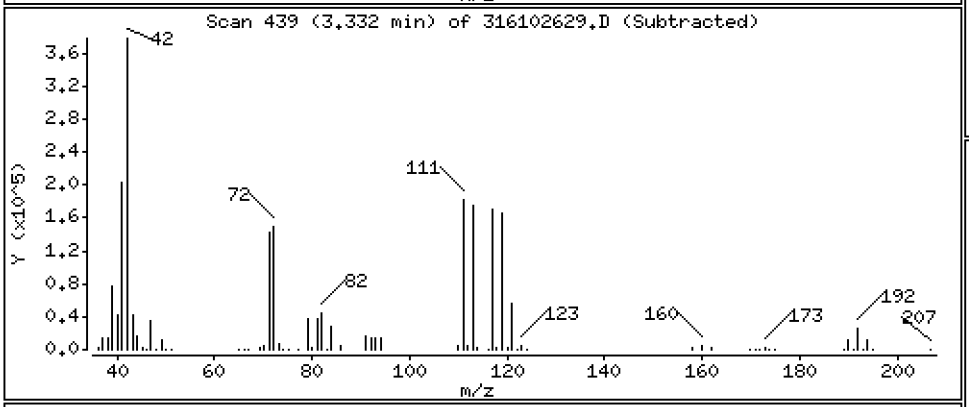
Sample Info: 1801;;1;2;4;;;

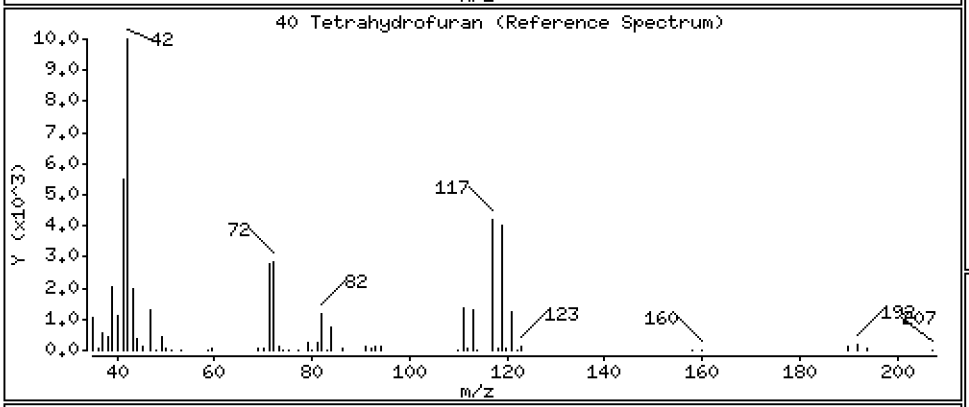
Purge Volume: 5.0 Operator: DD

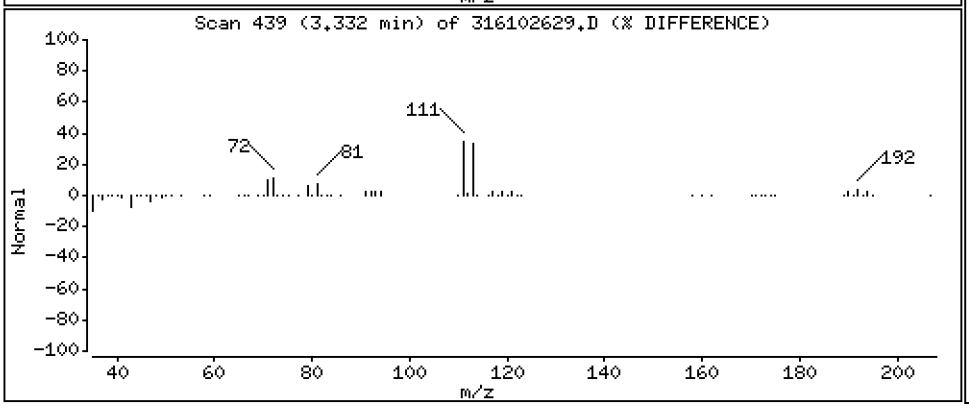
Column phase: DB-VRX Column diameter: 0.25

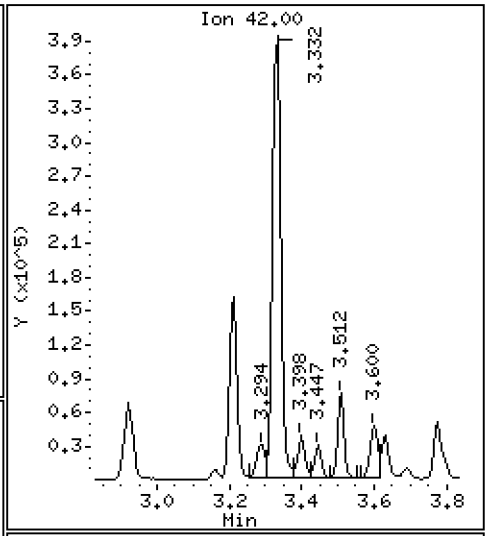
40 Tetrahydrofuran Concentration: 271.268 ug/L

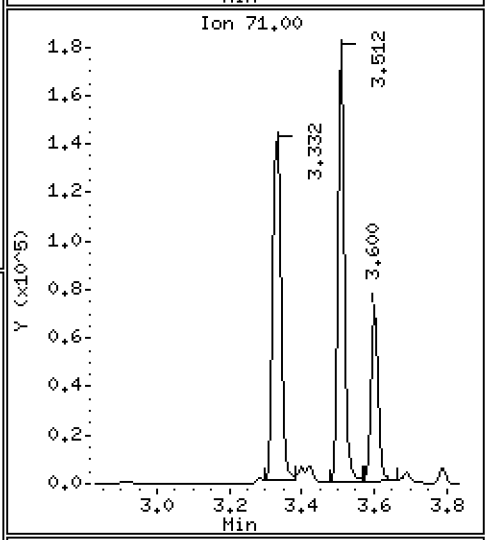


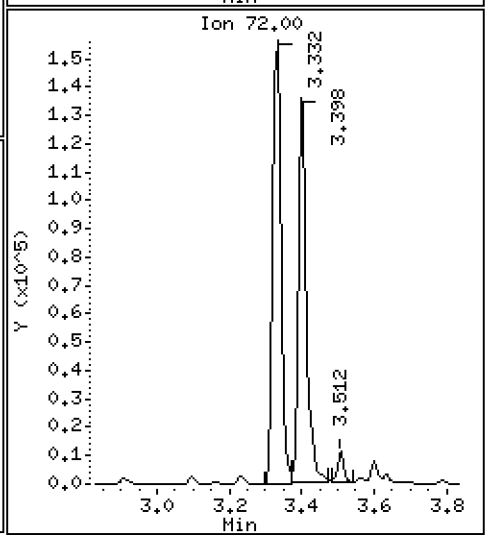












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 53

Date : 26-OCT-2016 19:41

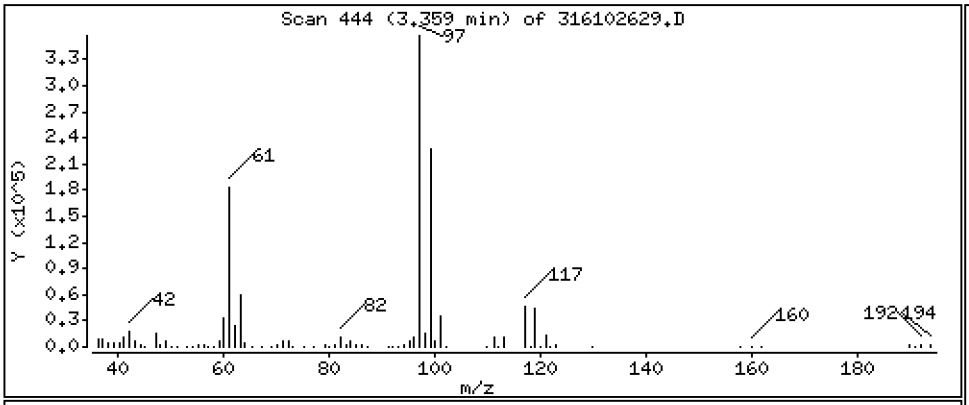
Client ID: Instrument: ms03.i

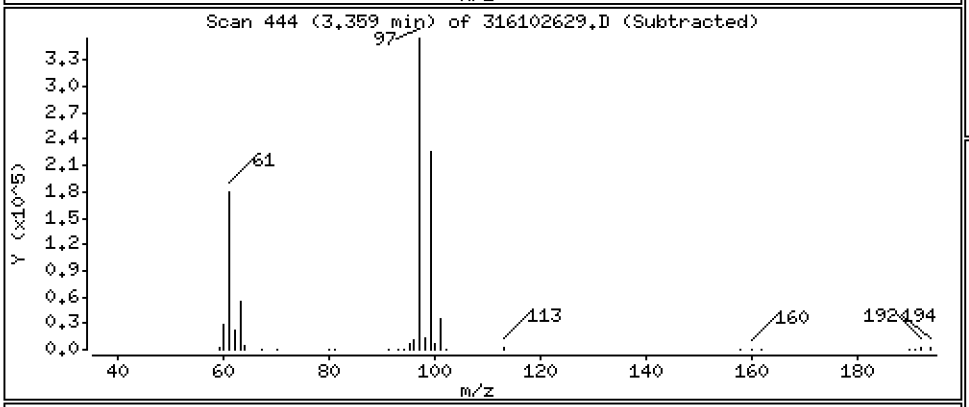
Sample Info: 1801;;1;2;4;;;

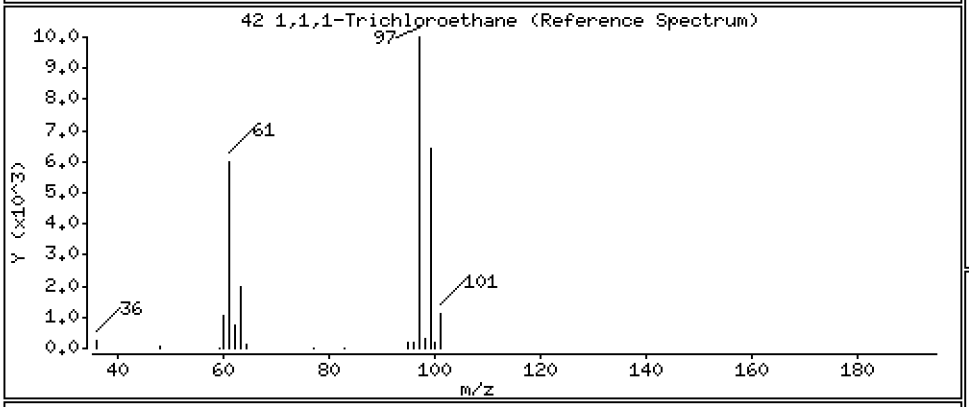
Purge Volume: 5.0 Operator: DD

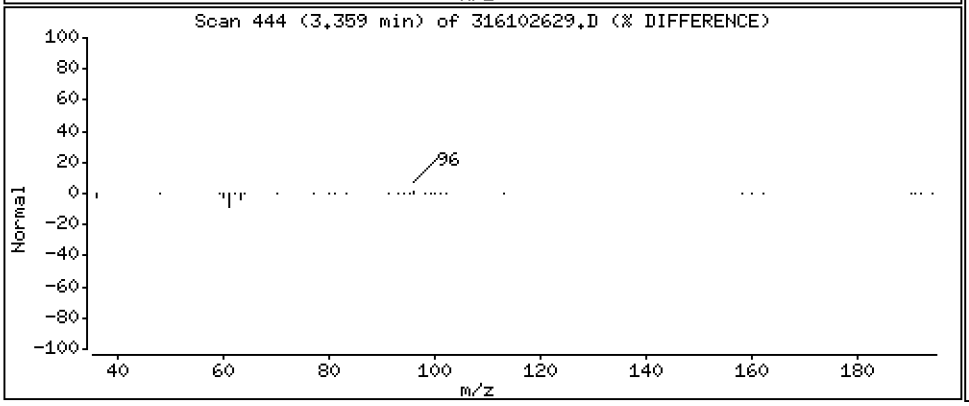
Column phase: DB-VRX Column diameter: 0.25

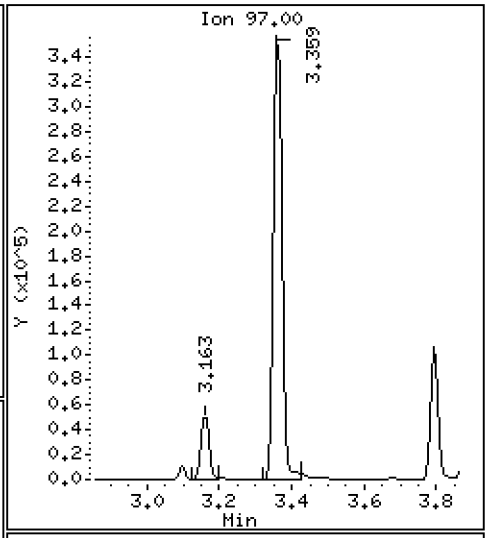
42 1,1,1-Trichloroethane Concentration: 50.7170 ug/L

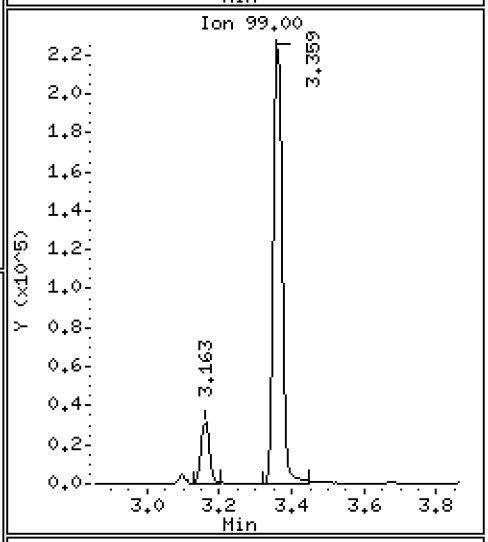


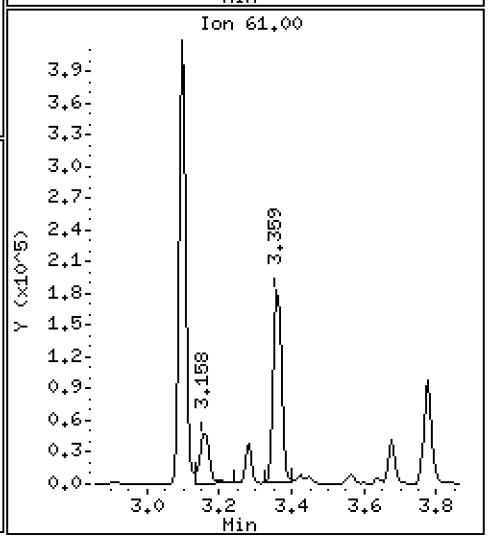












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 54

Date : 26-OCT-2016 19:41

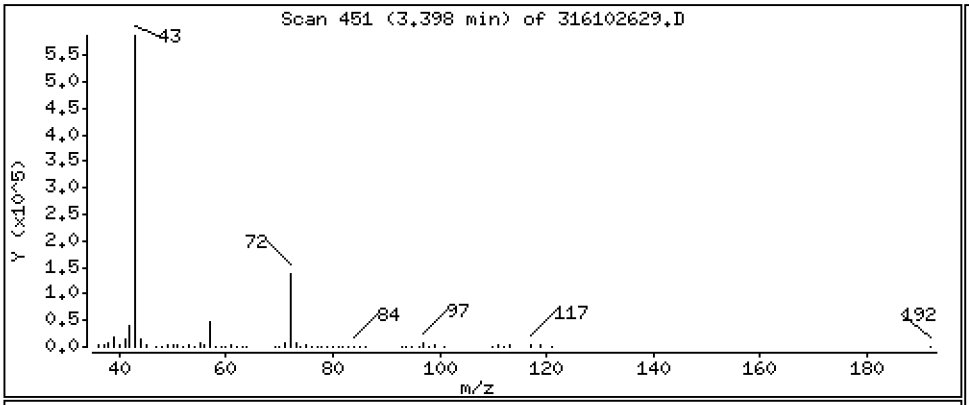
Client ID: Instrument: ms03.i

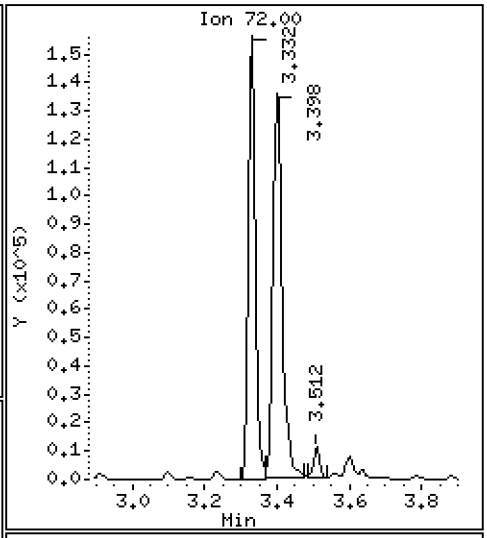
Sample Info: 1801;;1;2;4;;;

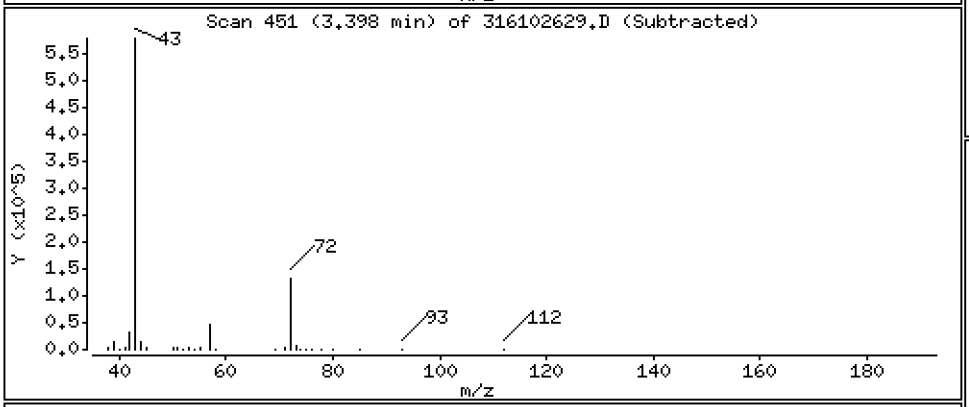
Purge Volume: 5.0 Operator: DD

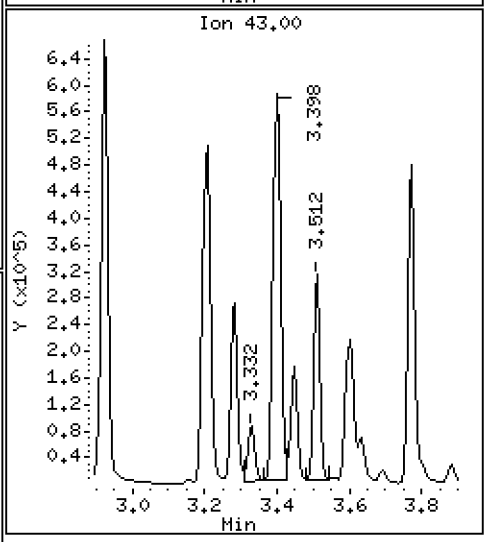
Column phase: DB-VRX Column diameter: 0.25

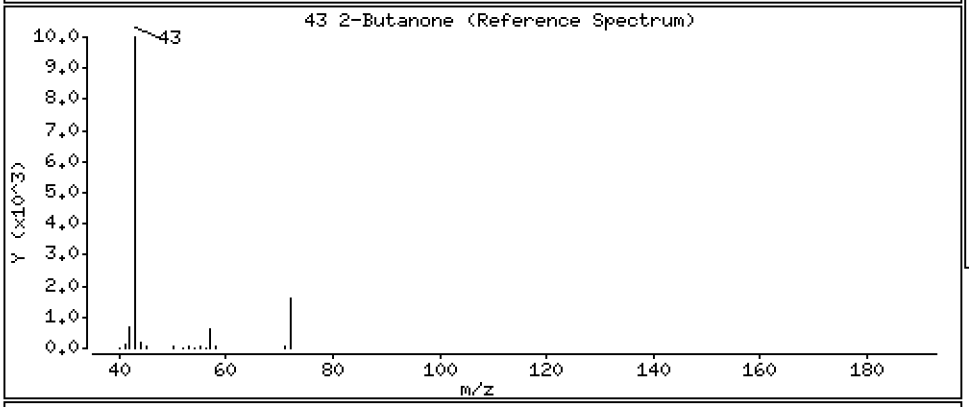
43 2-Butanone Concentration: 250.925 ug/L

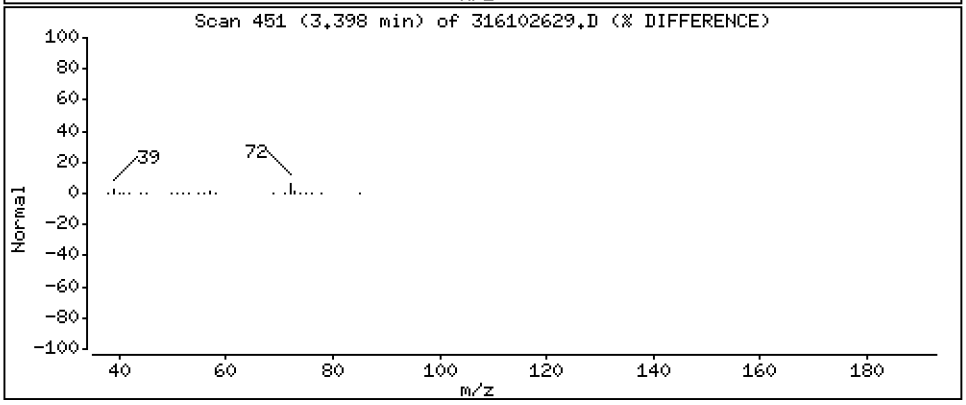












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 55

Date : 26-OCT-2016 19:41

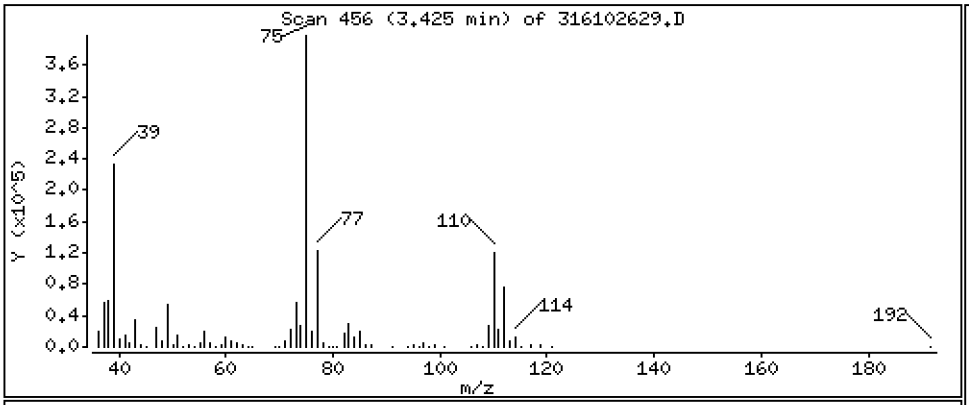
Client ID: Instrument: ms03.i

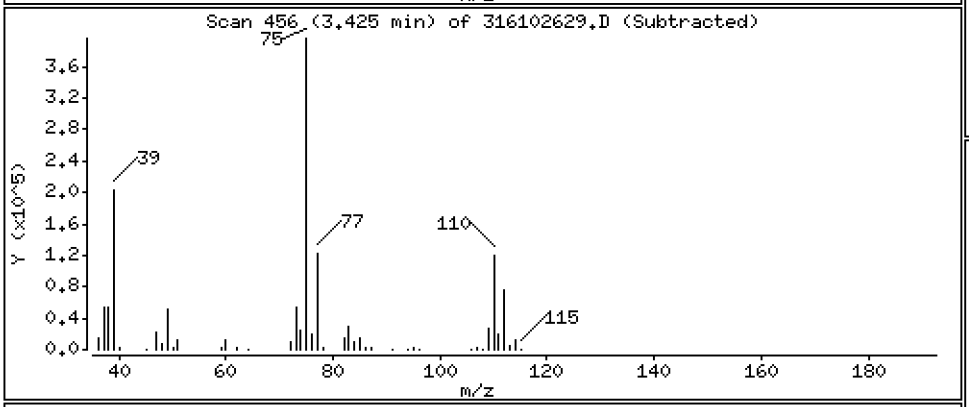
Sample Info: 1801;;1;2;4;;;

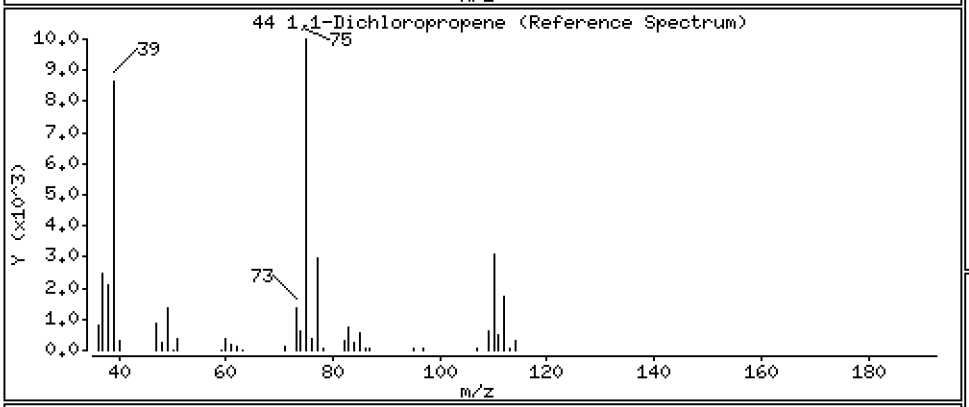
Purge Volume: 5.0 Operator: DD

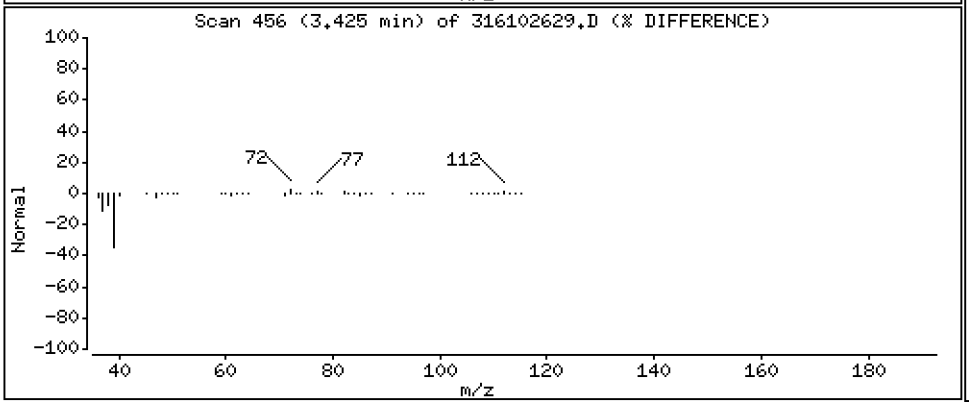
Column phase: DB-VRX Column diameter: 0.25

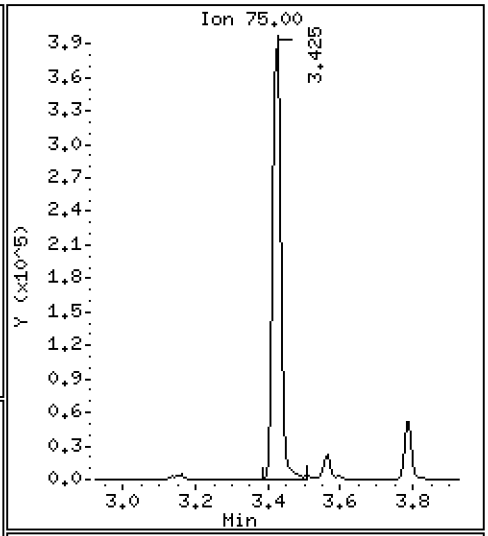
44 1,1-Dichloropropene Concentration: 49.9042 ug/L

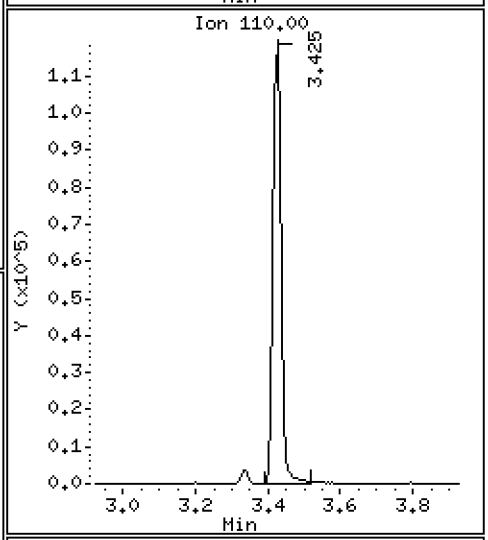


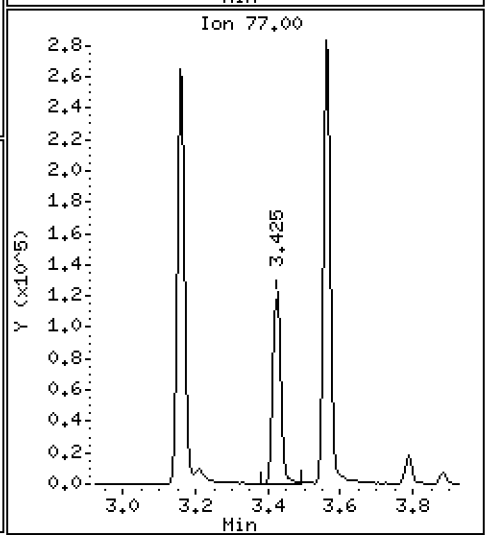












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 56

Date : 26-OCT-2016 19:41

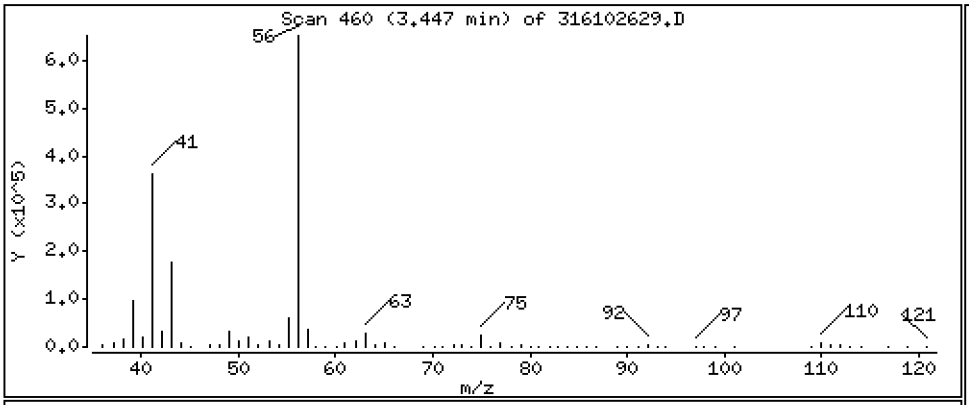
Client ID: Instrument: ms03.i

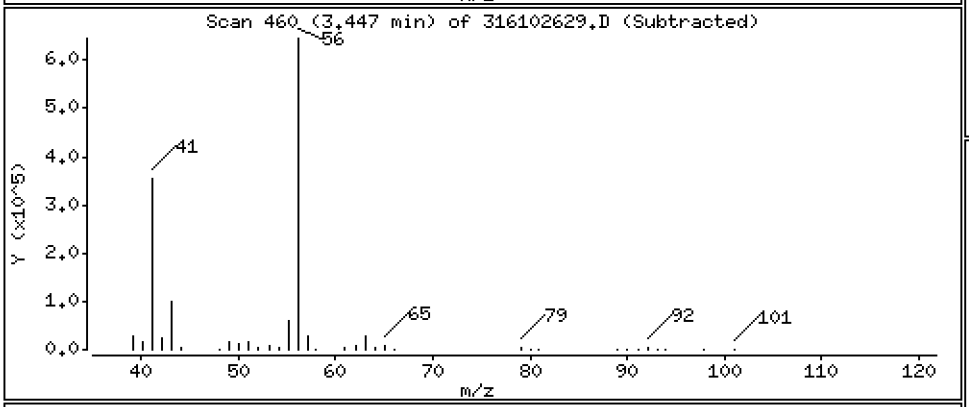
Sample Info: 1801;;1;2;4;;;

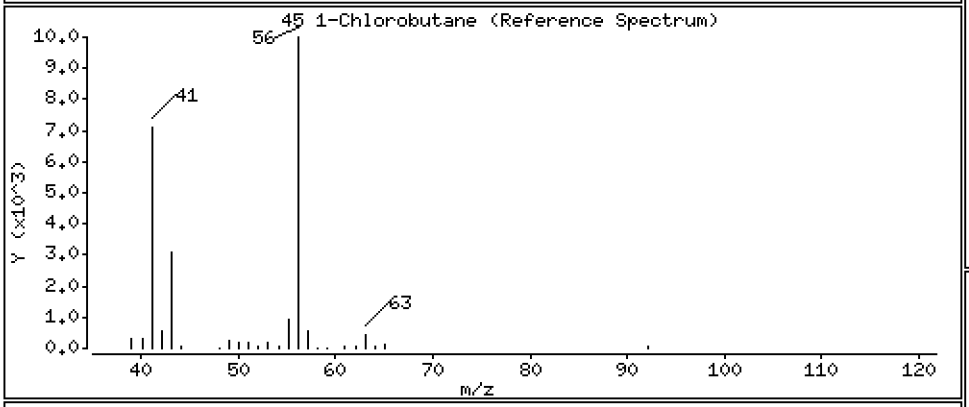
Purge Volume: 5.0 Operator: DD

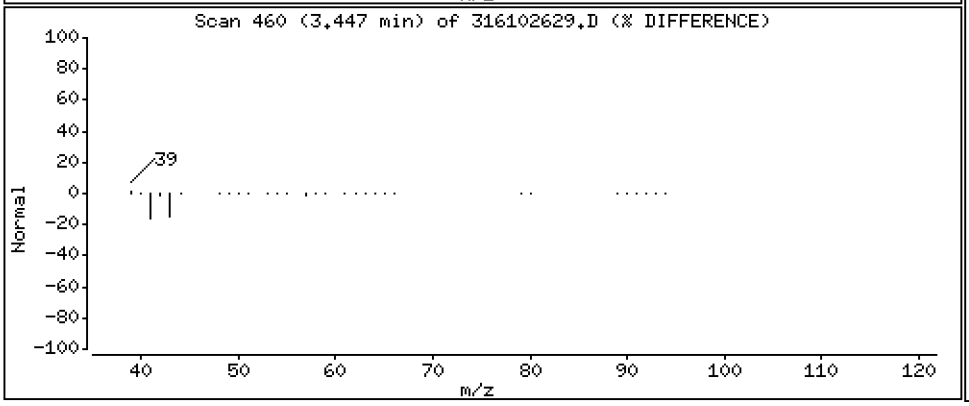
Column phase: DB-VRX Column diameter: 0.25

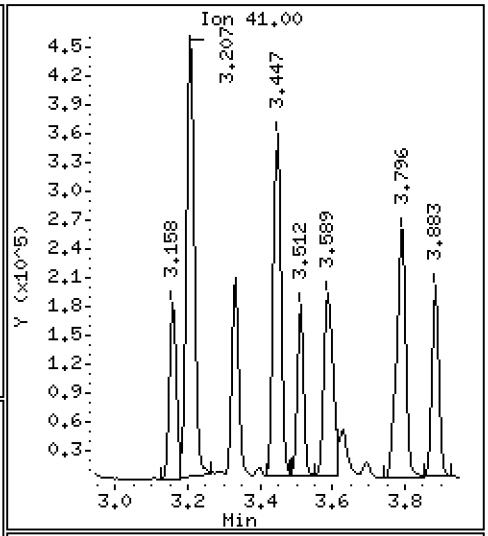
45 1-Chlorobutane Concentration: 57.8187 ug/L

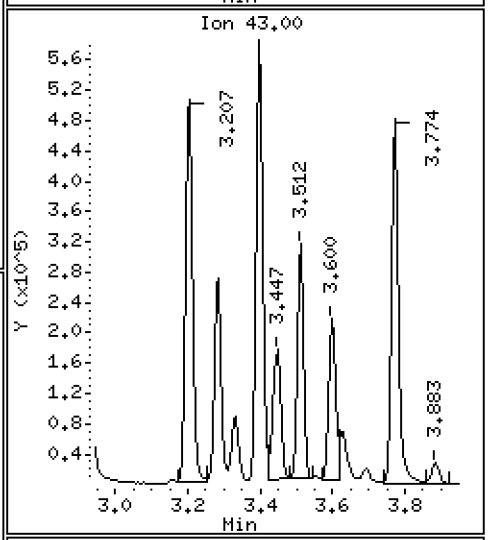


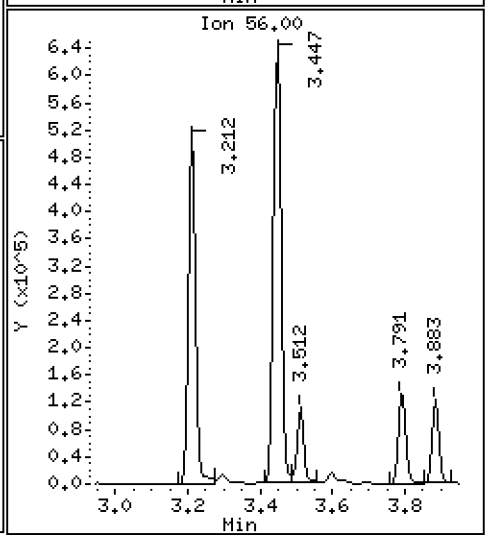












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 57

Date : 26-OCT-2016 19:41

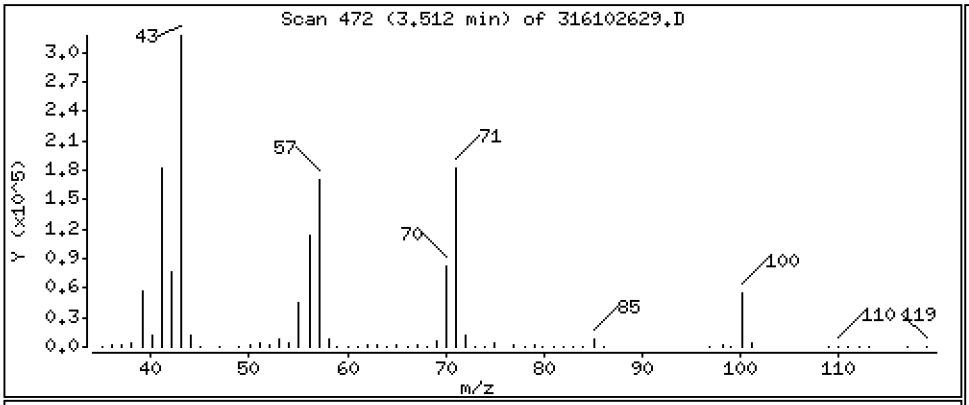
Client ID: Instrument: ms03.i

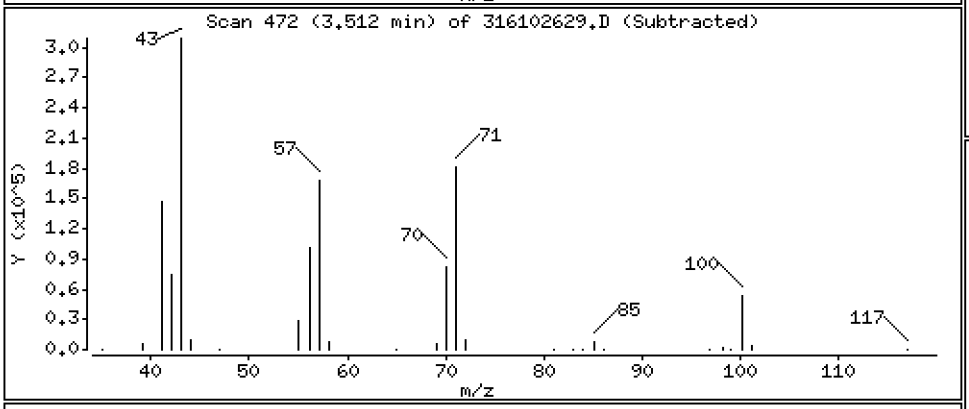
Sample Info: 1801;;1;2;4;;;

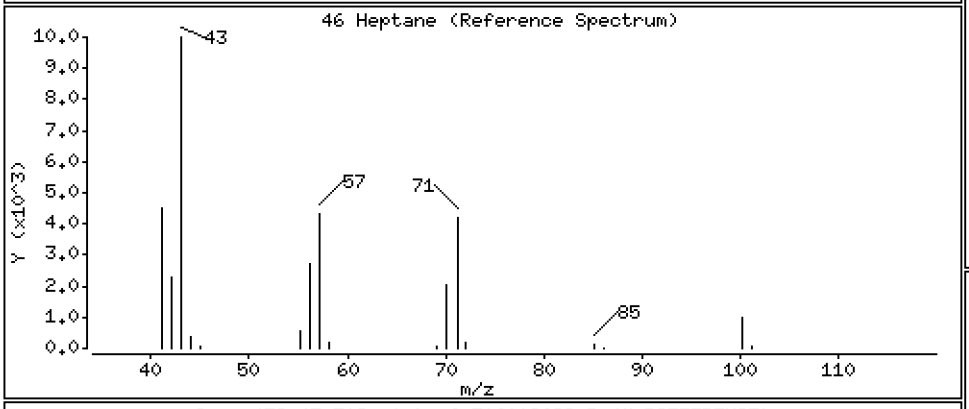
Purge Volume: 5.0 Operator: DD

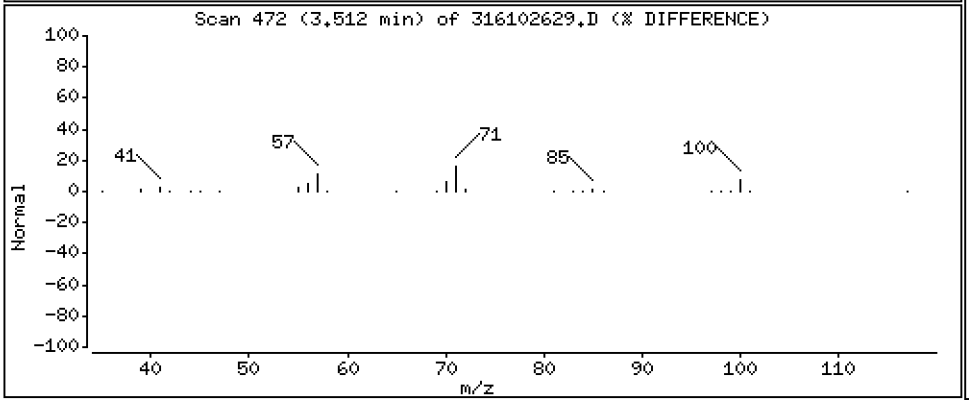
Column phase: DB-VRX Column diameter: 0.25

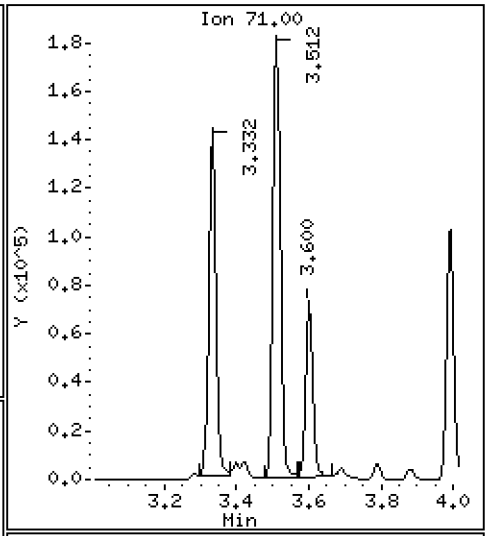
46 Heptane Concentration: 46.3317 ug/L

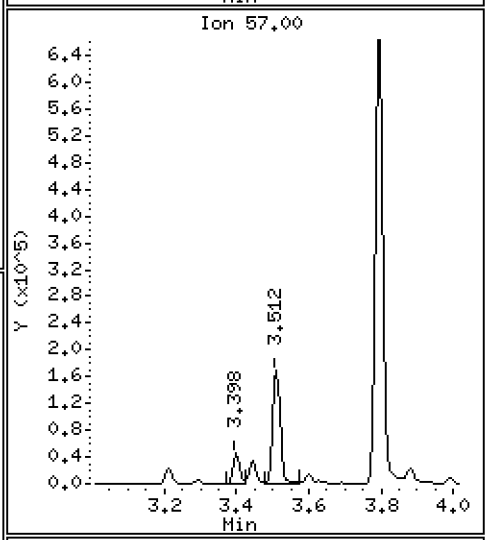


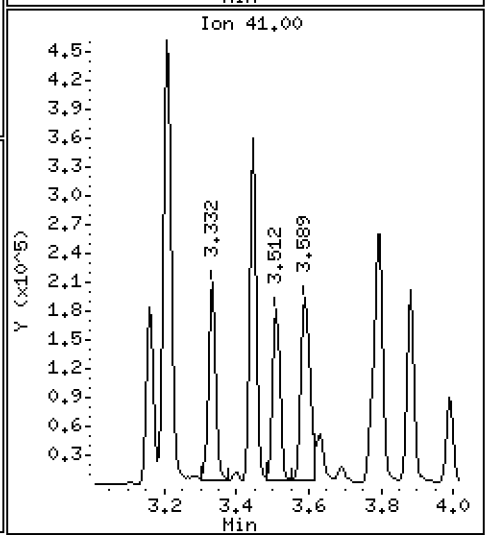












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 58

Date : 26-OCT-2016 19:41

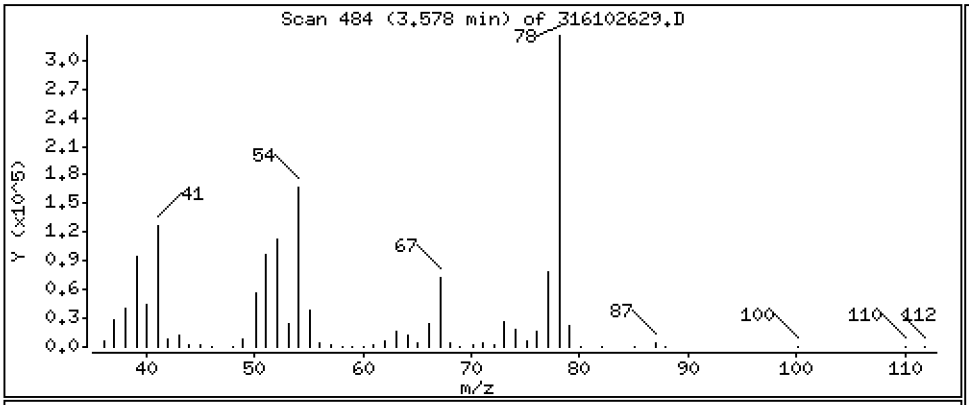
Client ID: Instrument: ms03.i

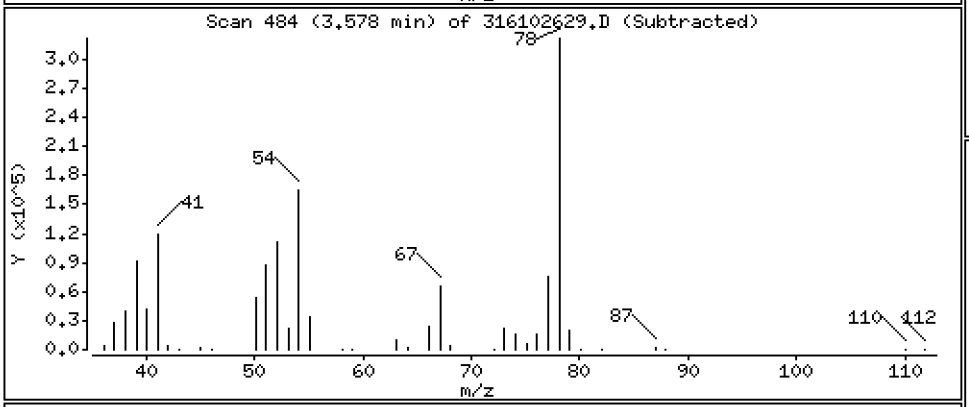
Sample Info: 1801;;1;2;4;;;

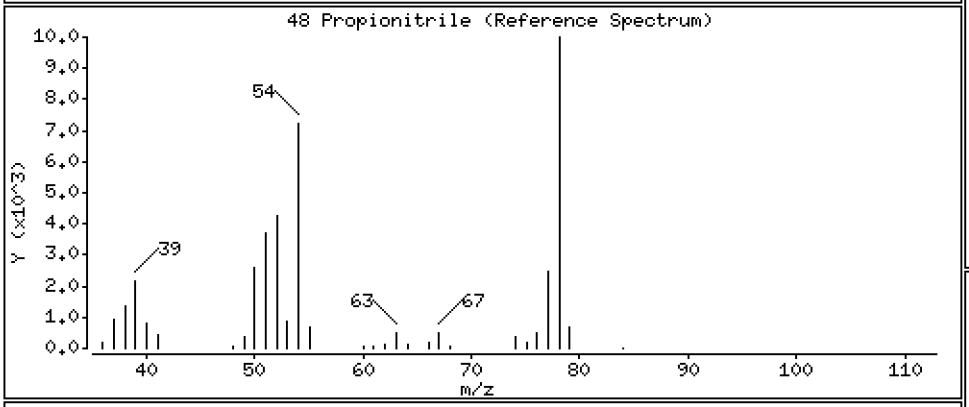
Purge Volume: 5.0 Operator: DD

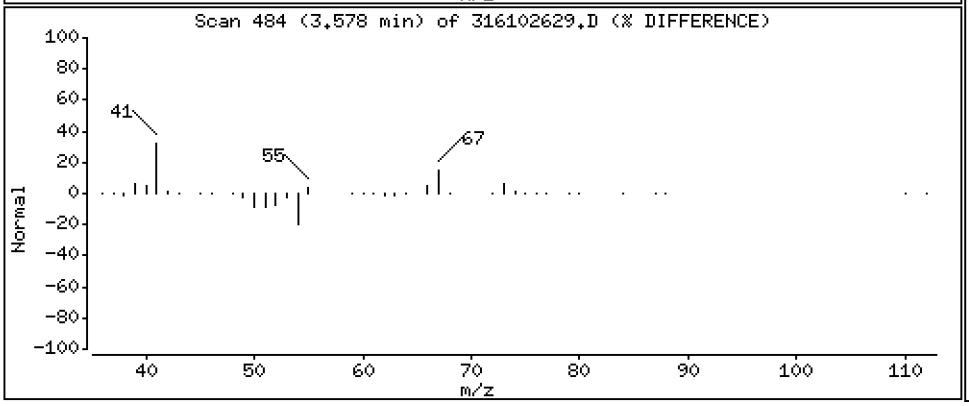
Column phase: DB-VRX Column diameter: 0.25

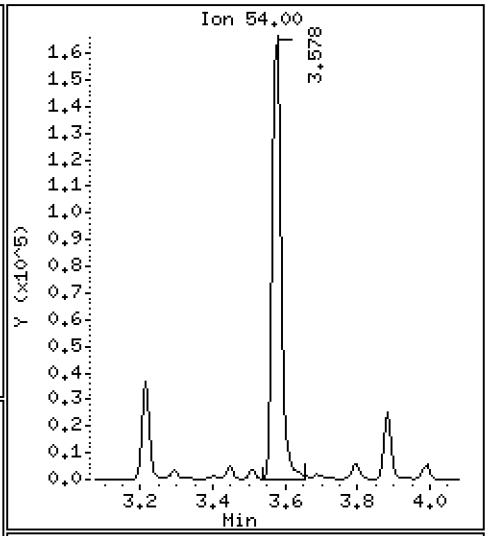
48 Propionitrile Concentration: 253.303 ug/L

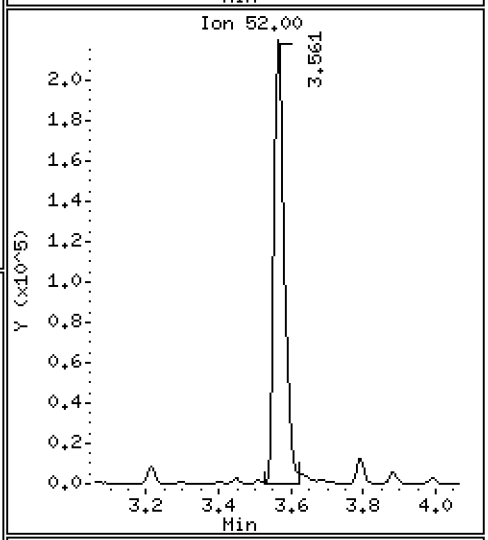


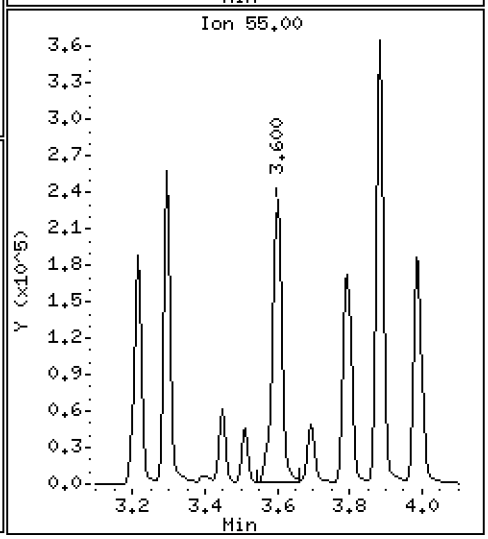












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 59

Date : 26-OCT-2016 19:41

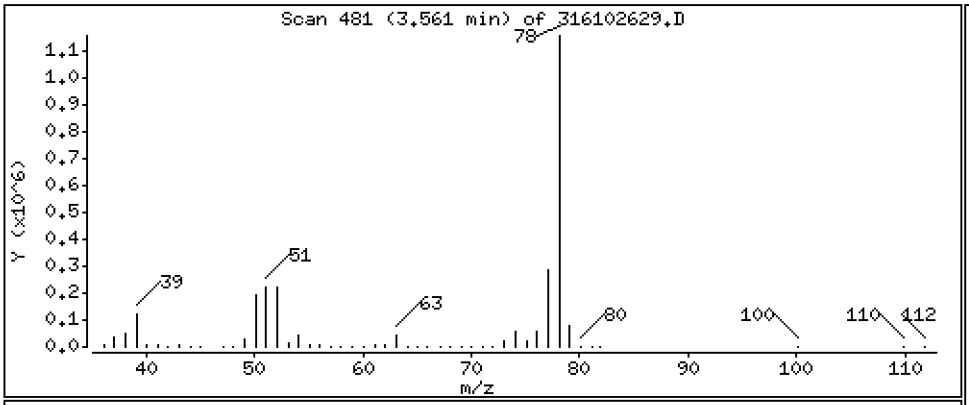
Client ID: Instrument: ms03.i

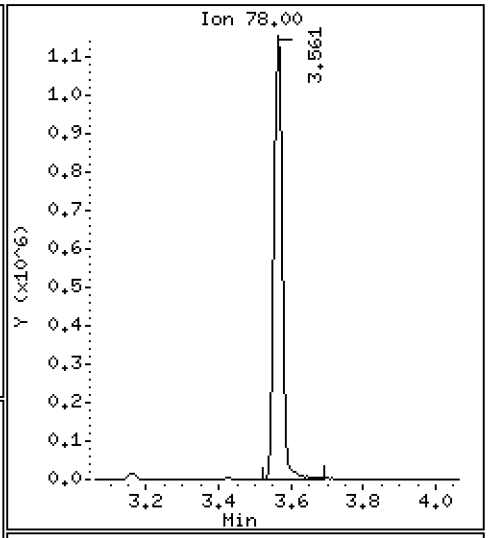
Sample Info: 1801;;1;2;4;;;

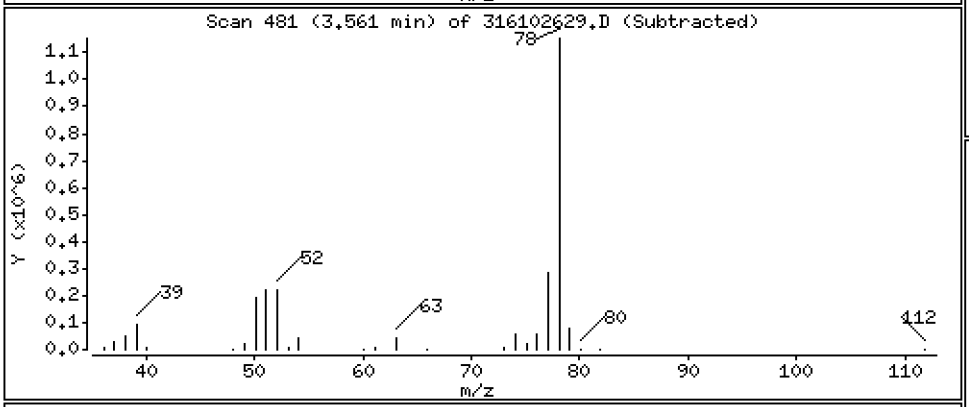
Purge Volume: 5.0 Operator: DD

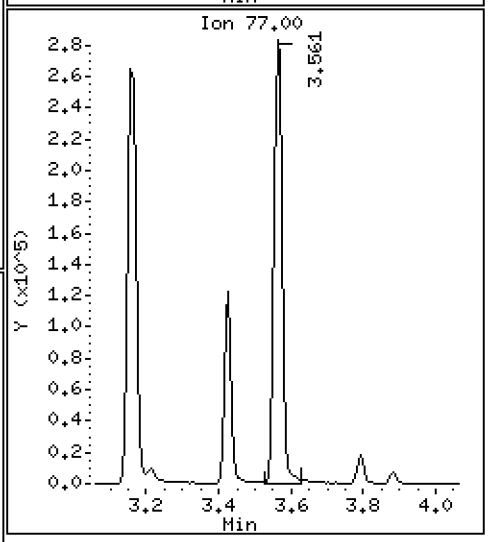
Column phase: DB-VRX Column diameter: 0.25

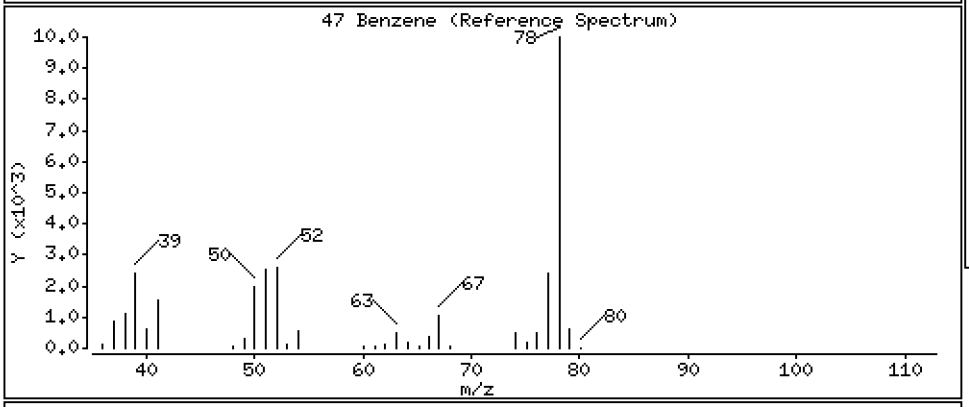
47 Benzene Concentration: 48.9782 ug/L

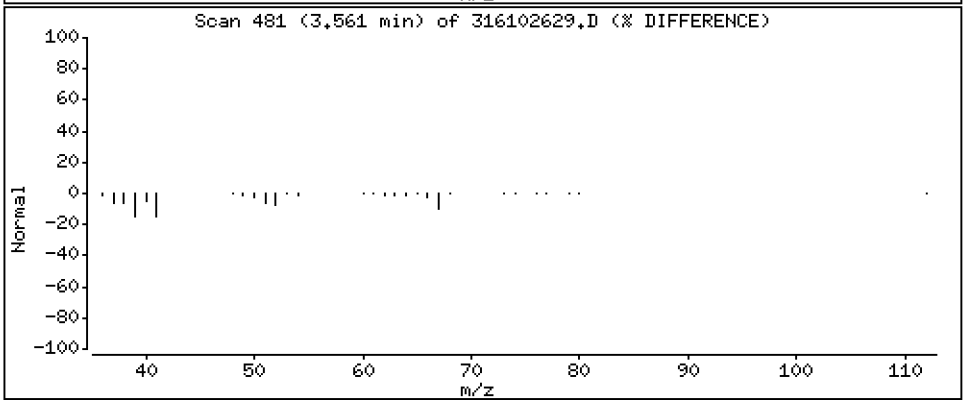












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 60

Date : 26-OCT-2016 19:41

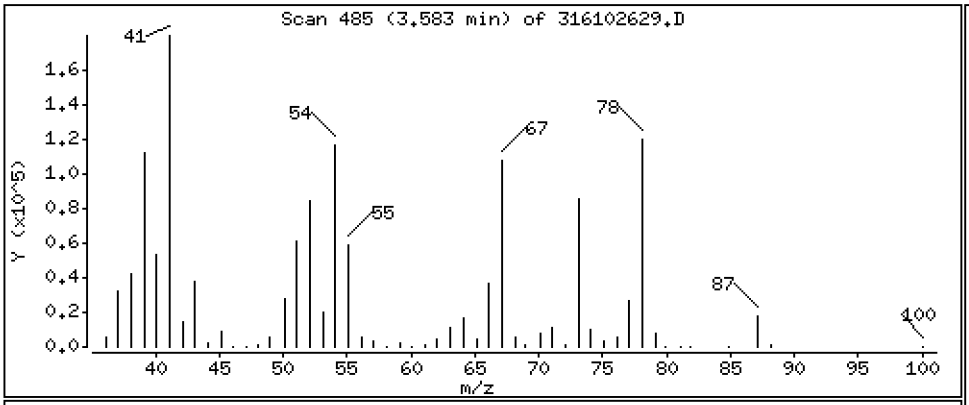
Client ID: Instrument: ms03.i

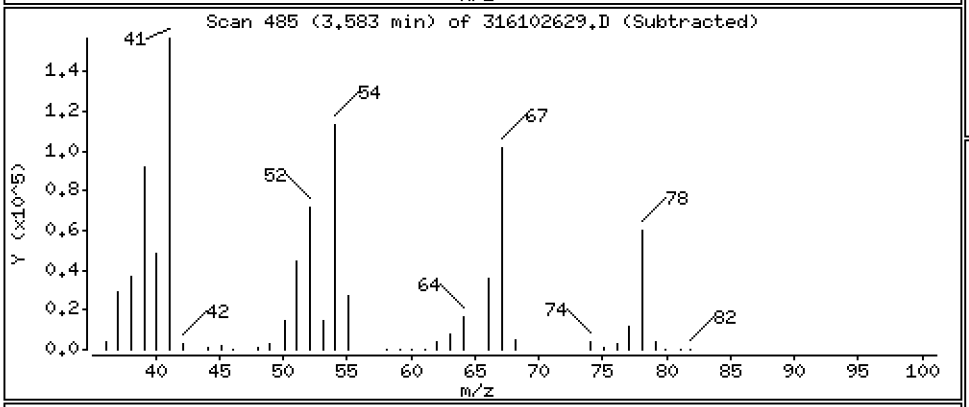
Sample Info: 1801;;1;2;4;;;

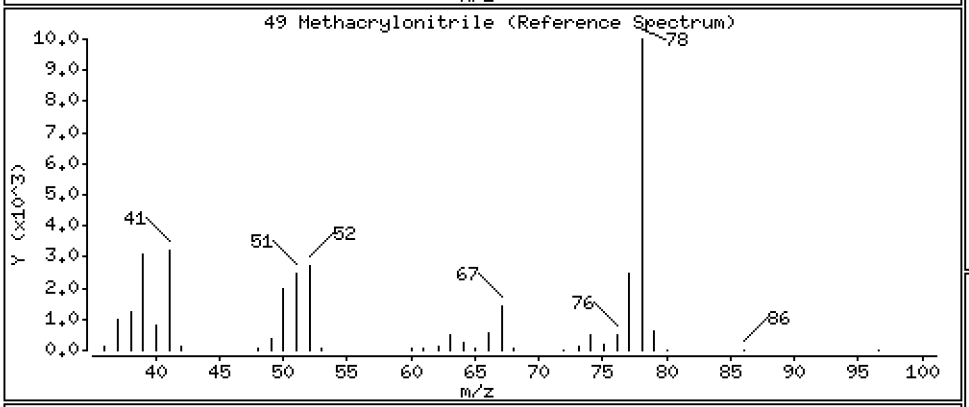
Purge Volume: 5.0 Operator: DD

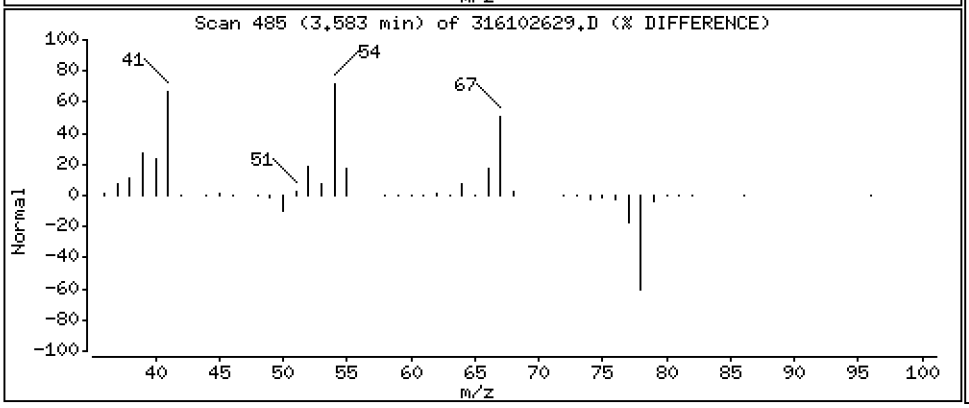
Column phase: DB-VRX Column diameter: 0.25

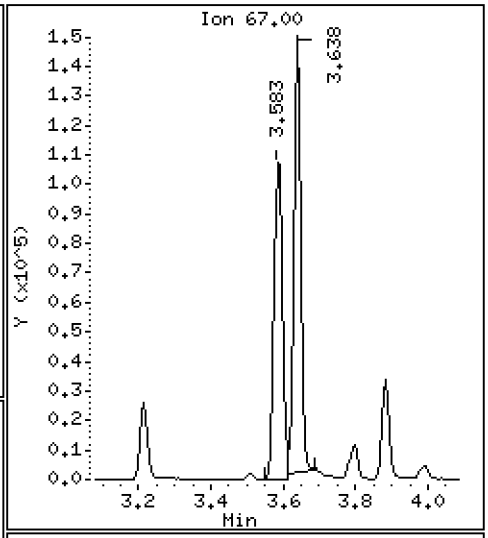
49 Methacrylonitrile Concentration: 50.9317 ug/L

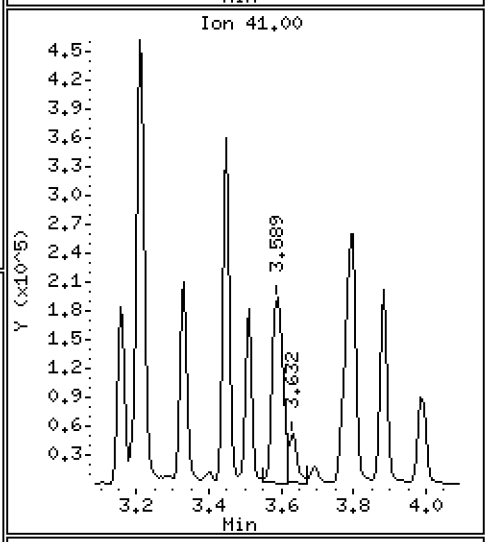


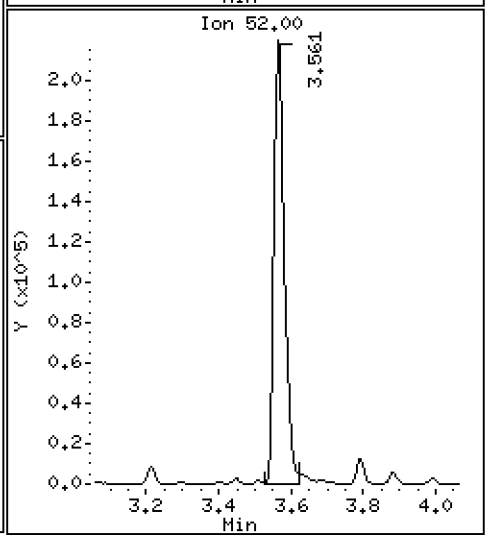












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 61

Date : 26-OCT-2016 19:41

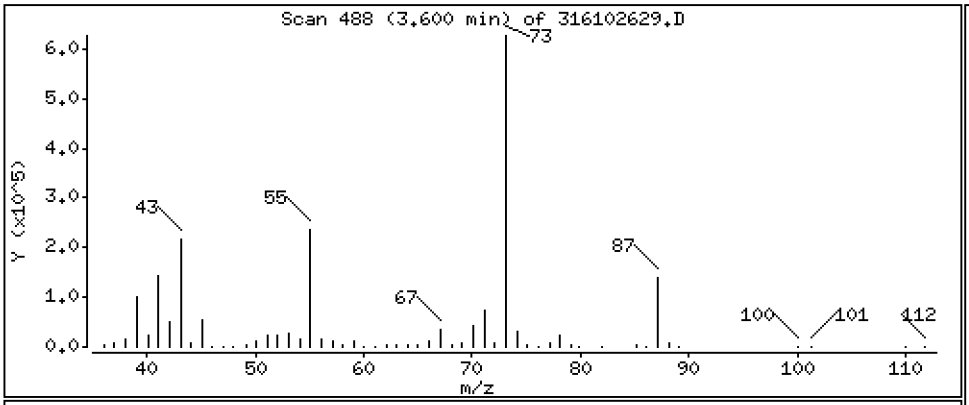
Client ID: Instrument: ms03.i

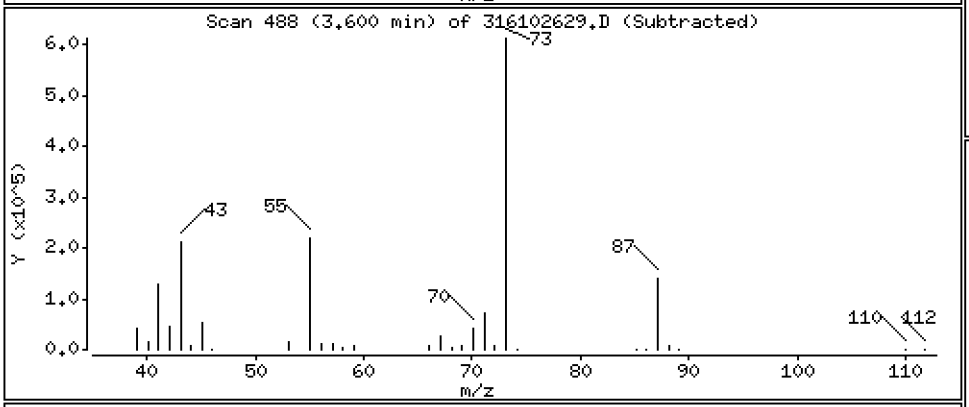
Sample Info: 1801;;1;2;4;;;

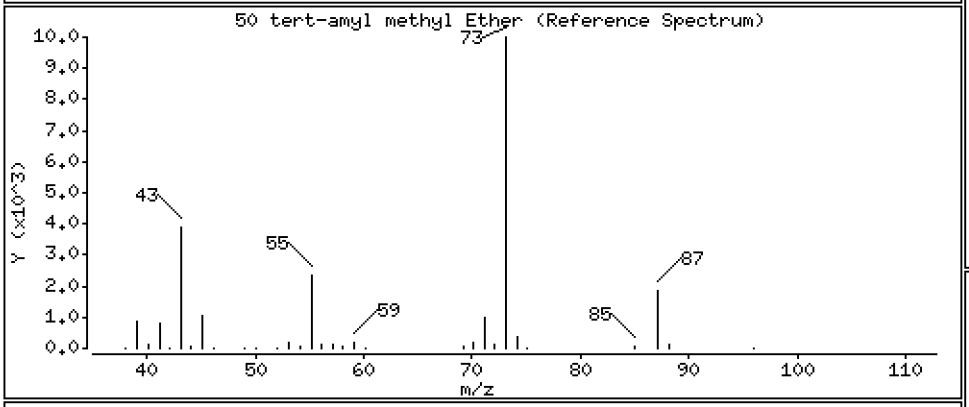
Purge Volume: 5.0 Operator: DD

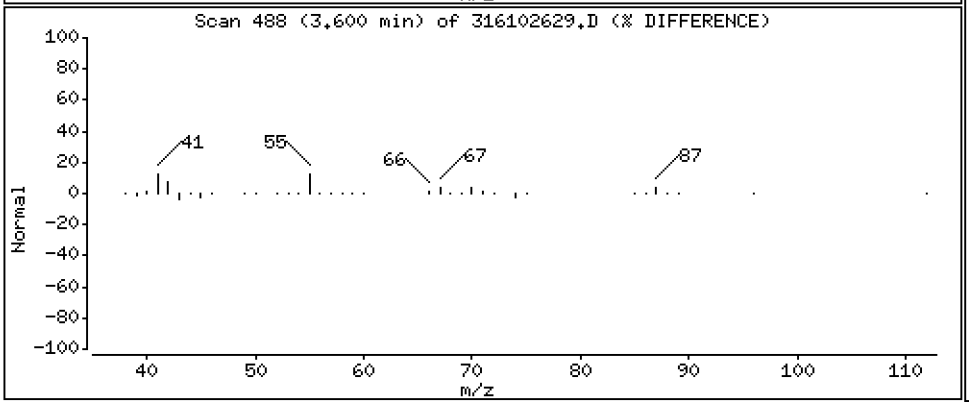
Column phase: DB-VRX Column diameter: 0.25

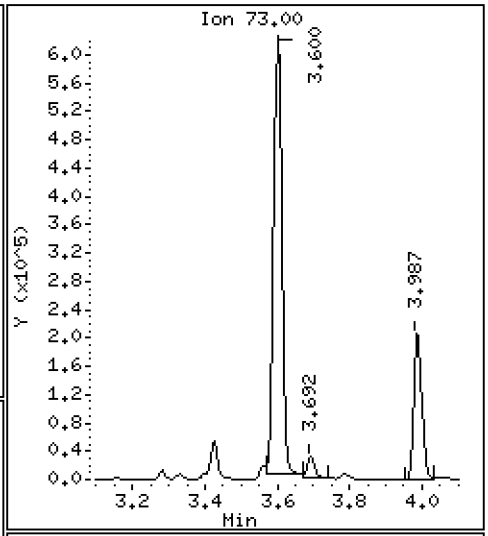
50 tert-amyl methyl Ether Concentration: 50.4159 ug/L

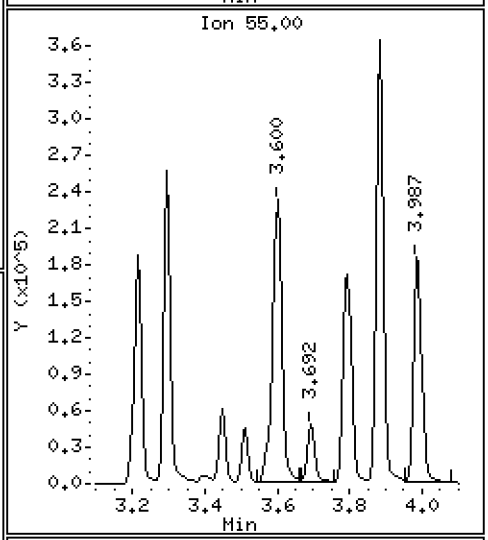


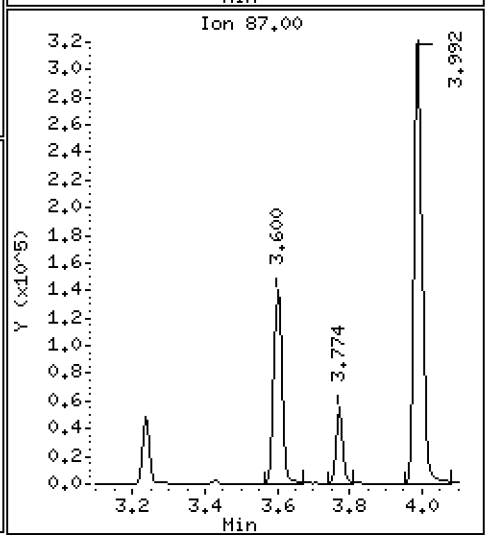












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 62

Date : 26-OCT-2016 19:41

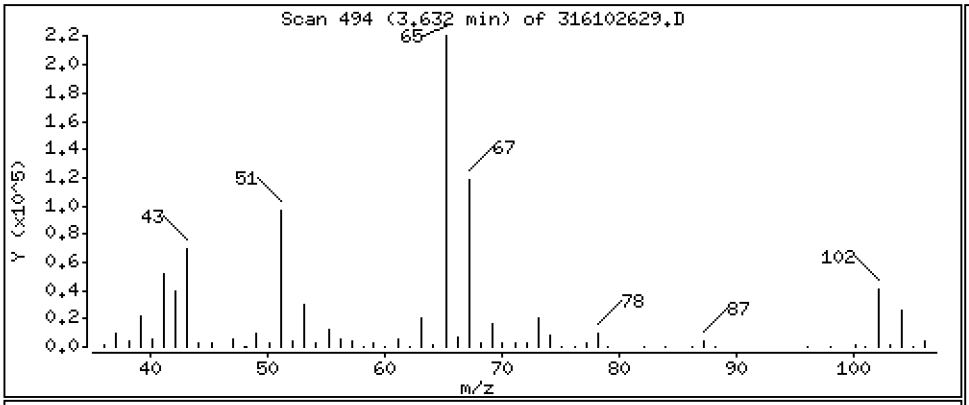
Client ID: Instrument: ms03.i

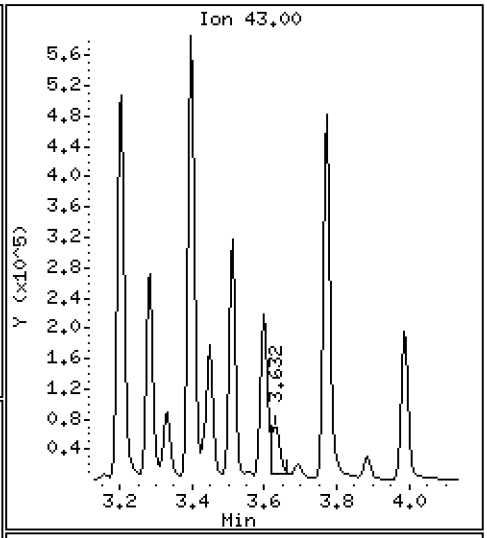
Sample Info: 1801;;1;2;4;;;

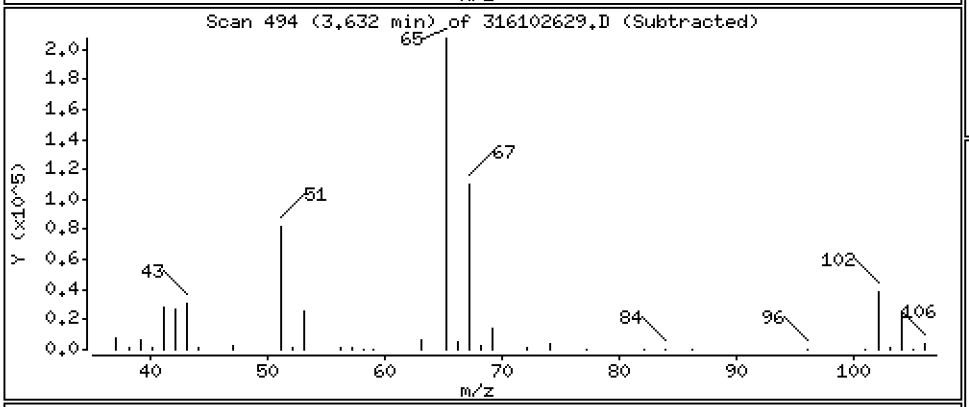
Purge Volume: 5.0 Operator: DD

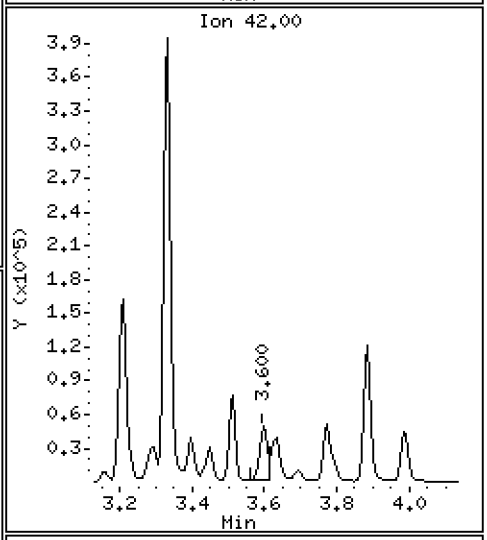
Column phase: DB-VRX Column diameter: 0.25

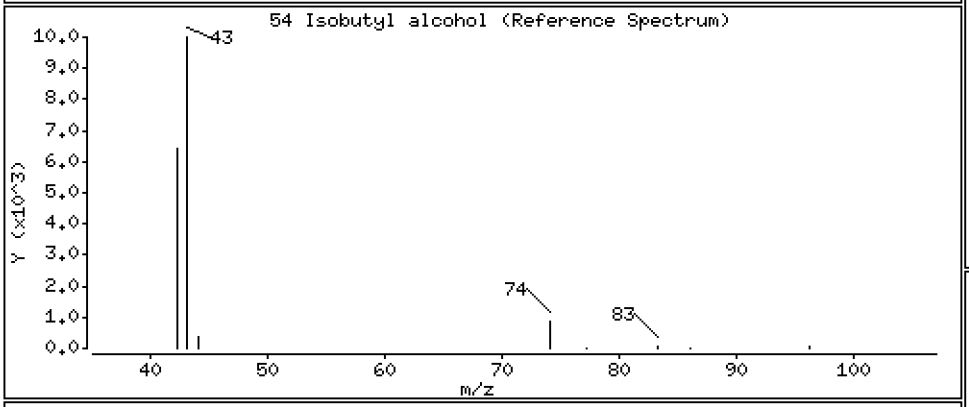
54 Isobutyl alcohol Concentration: 501.027 ug/L

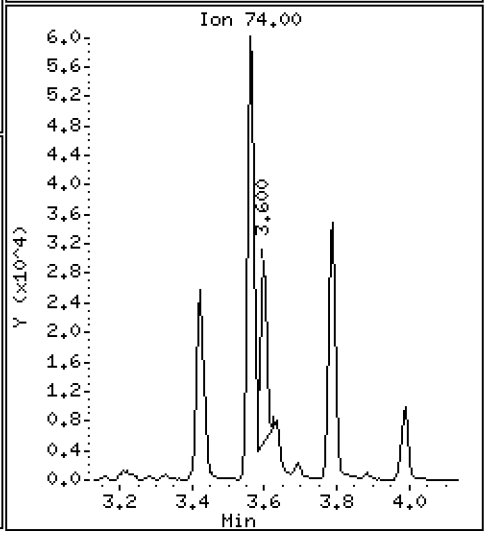


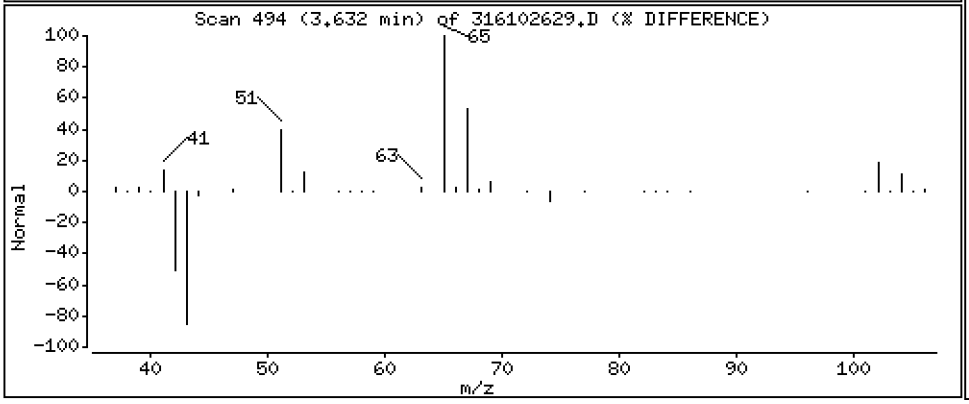












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 63

Date : 26-OCT-2016 19:41

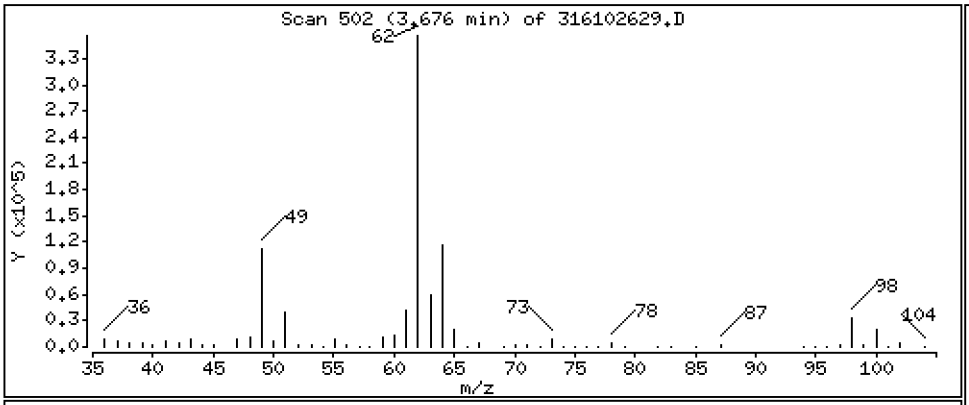
Client ID: Instrument: ms03.i

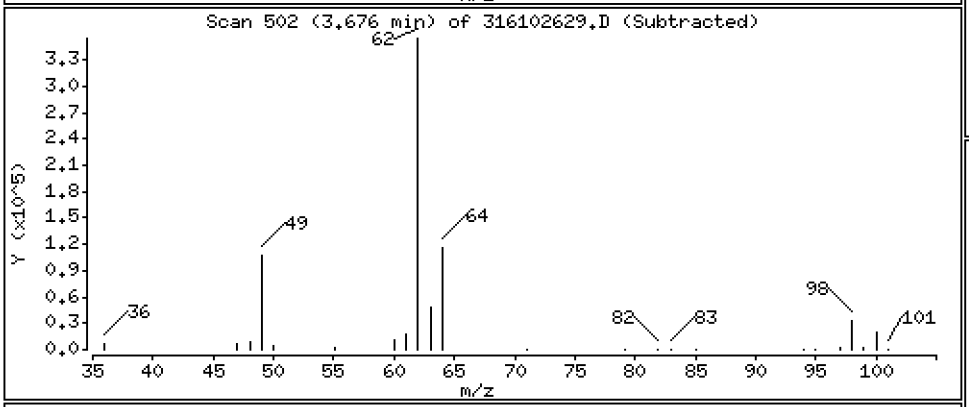
Sample Info: 1801;;1;2;4;;;

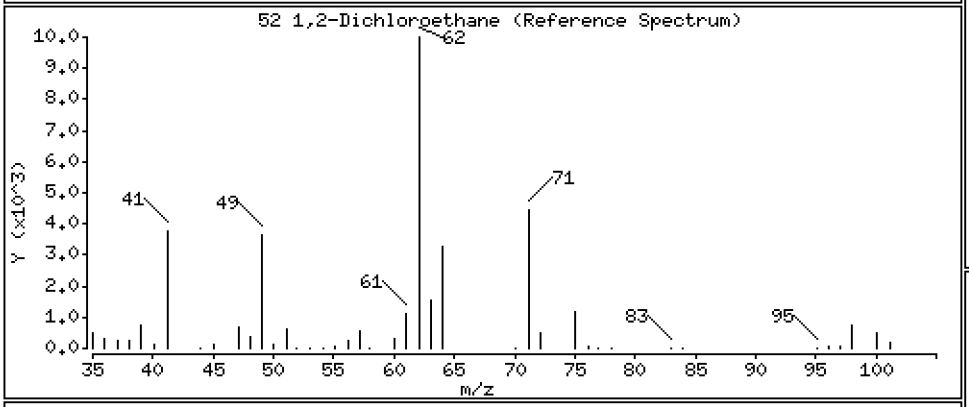
Purge Volume: 5.0 Operator: DD

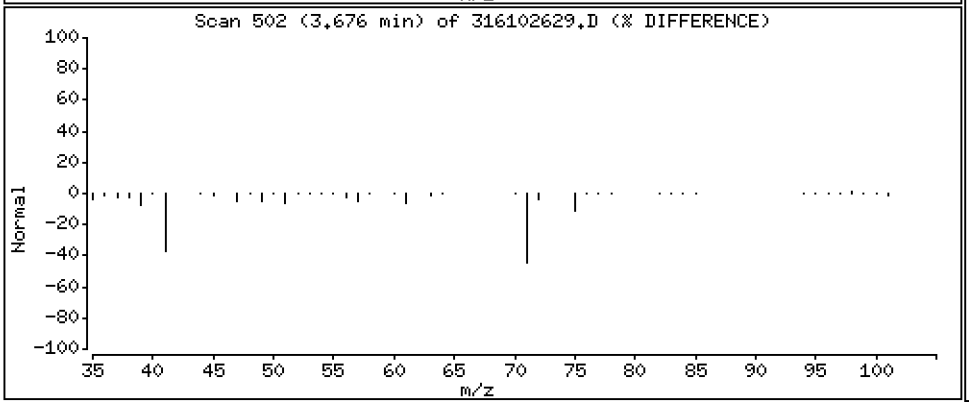
Column phase: DB-VRX Column diameter: 0.25

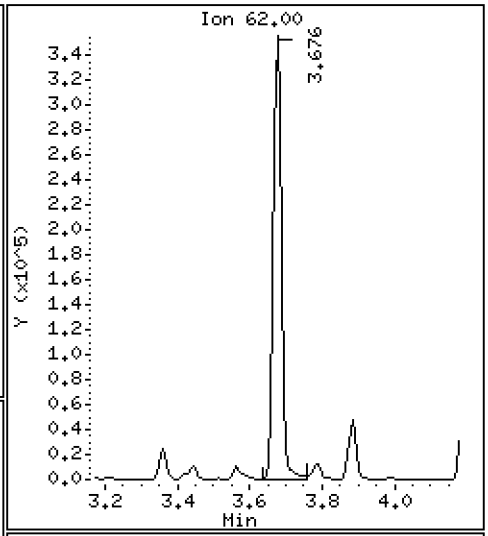
52 1,2-Dichloroethane Concentration: 49.3414 ug/L

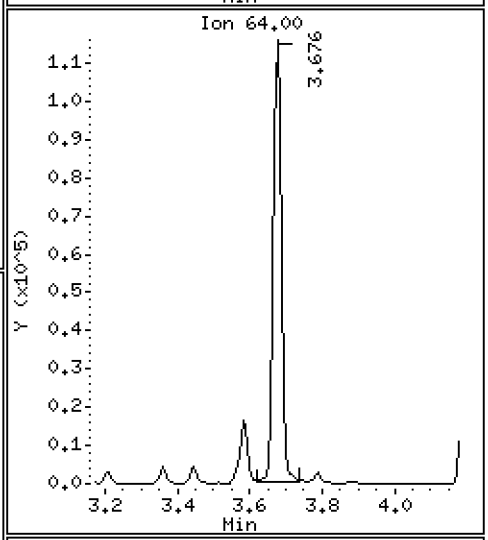


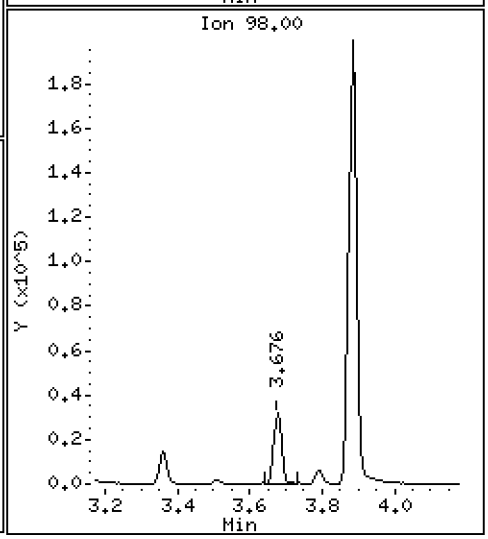












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 64

Date : 26-OCT-2016 19:41

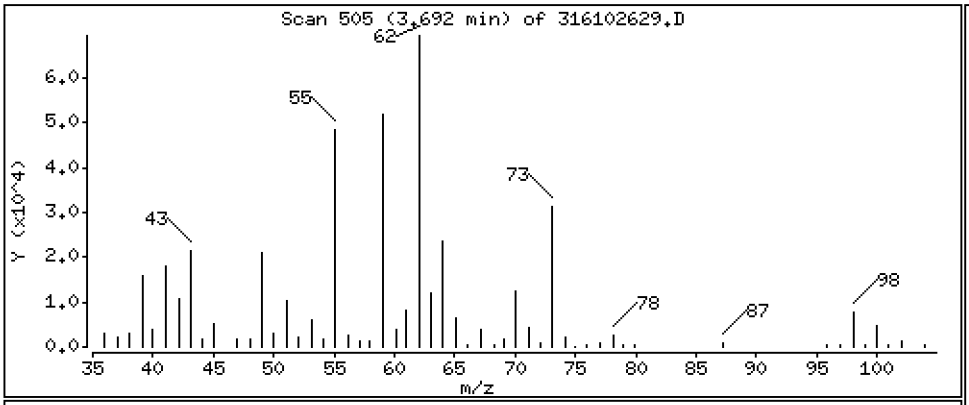
Client ID: Instrument: ms03.i

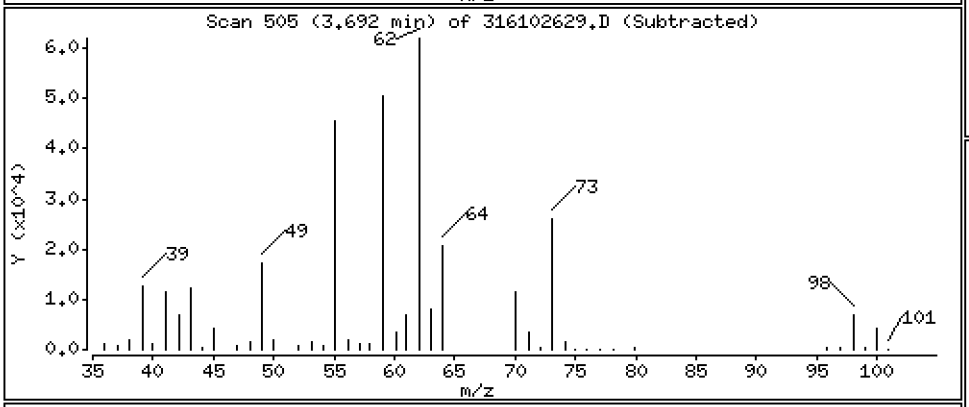
Sample Info: 1801;;1;2;4;;;

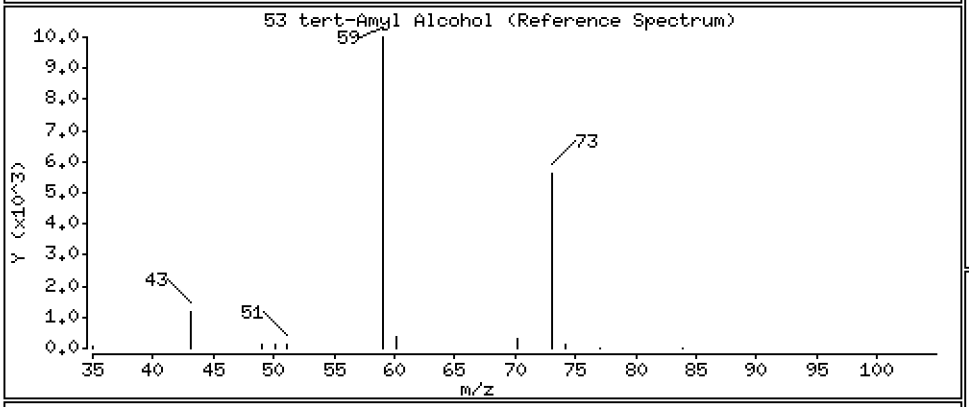
Purge Volume: 5.0 Operator: DD

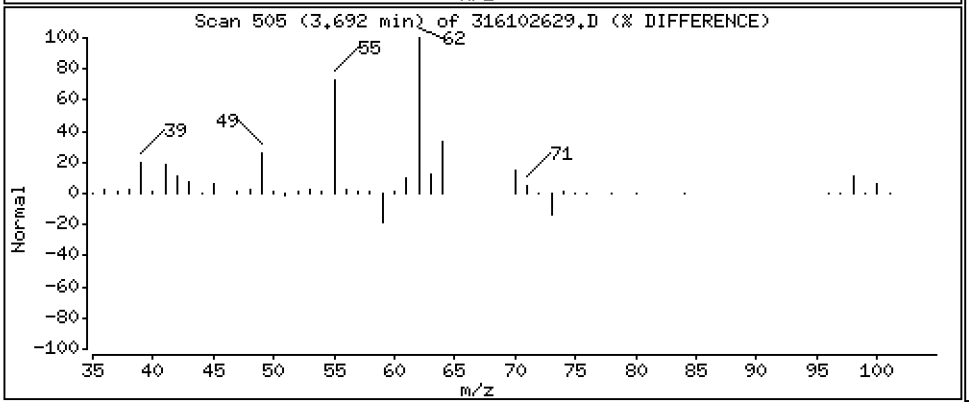
Column phase: DB-VRX Column diameter: 0.25

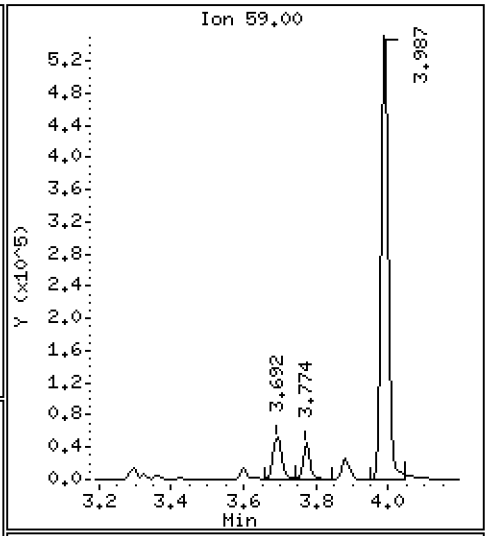
53 tert-Amyl Alcohol Concentration: 221.876 ug/L

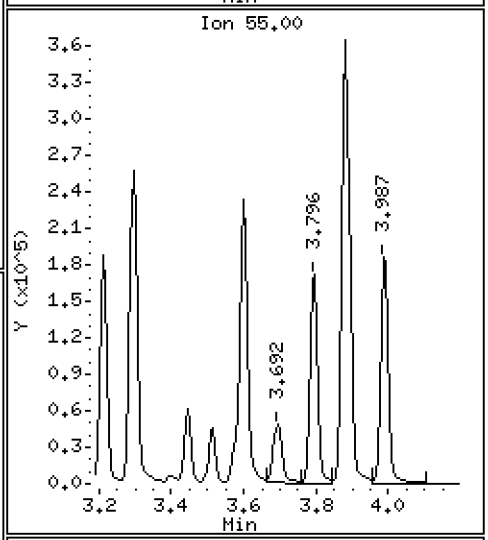


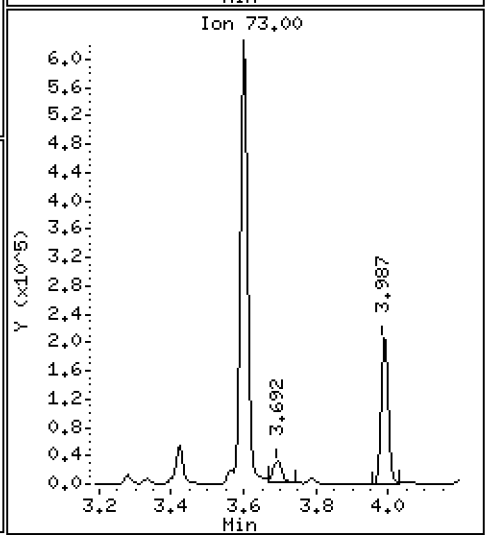












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 65

Date : 26-OCT-2016 19:41

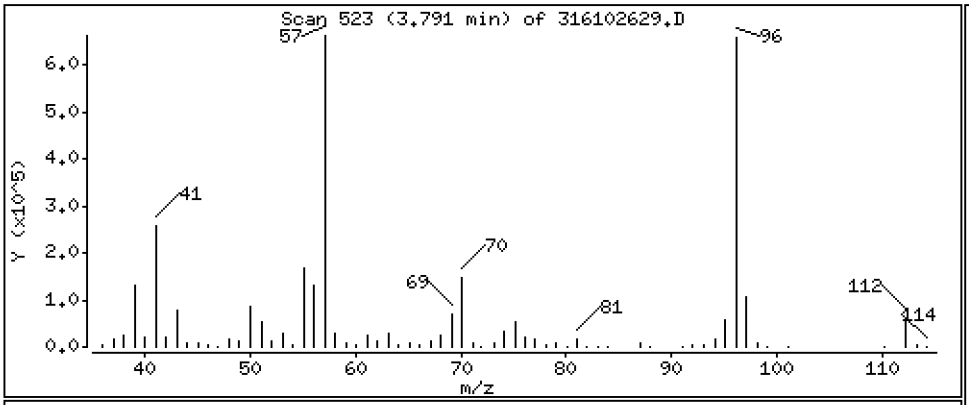
Client ID: Instrument: ms03.i

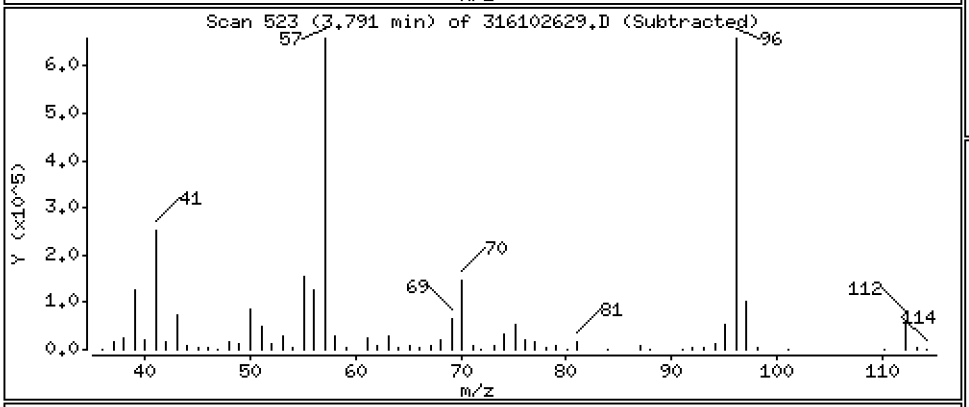
Sample Info: 1801;;1;2;4;;;

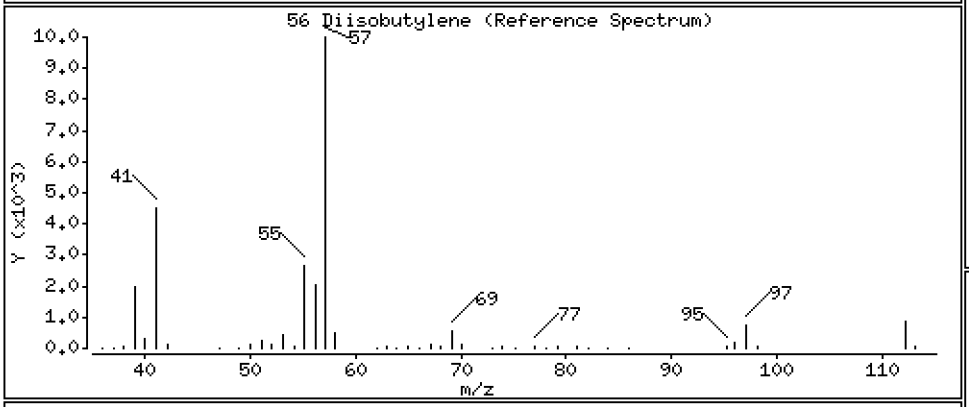
Purge Volume: 5.0 Operator: DD

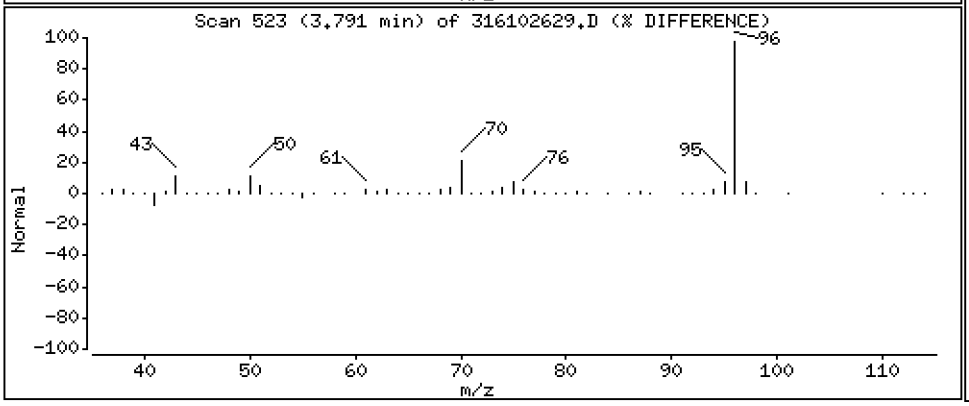
Column phase: DB-VRX Column diameter: 0.25

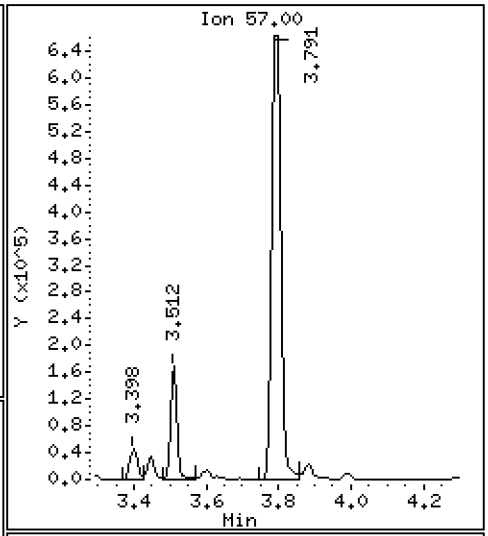
56 Diisobutylene Concentration: 54.8881 ug/L

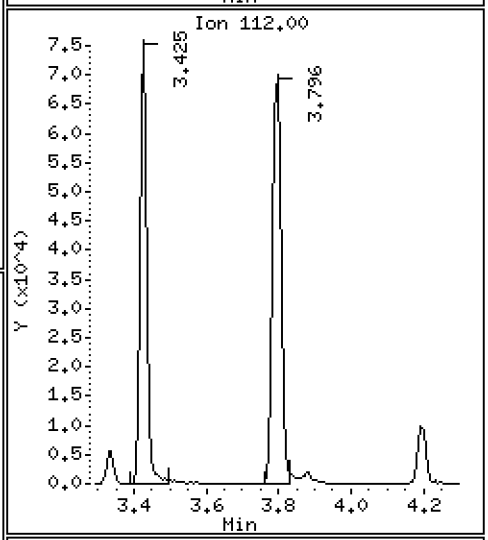


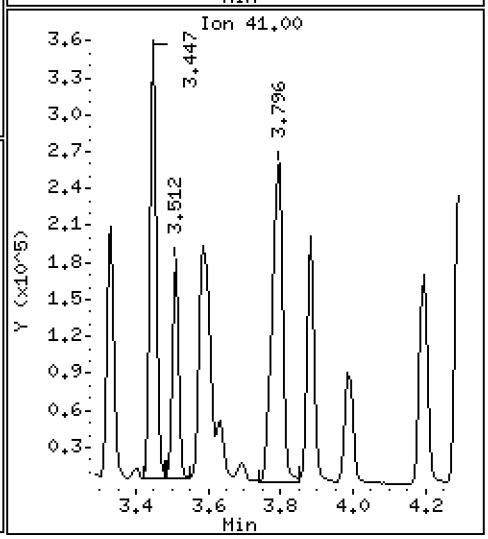












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 66

Date : 26-OCT-2016 19:41

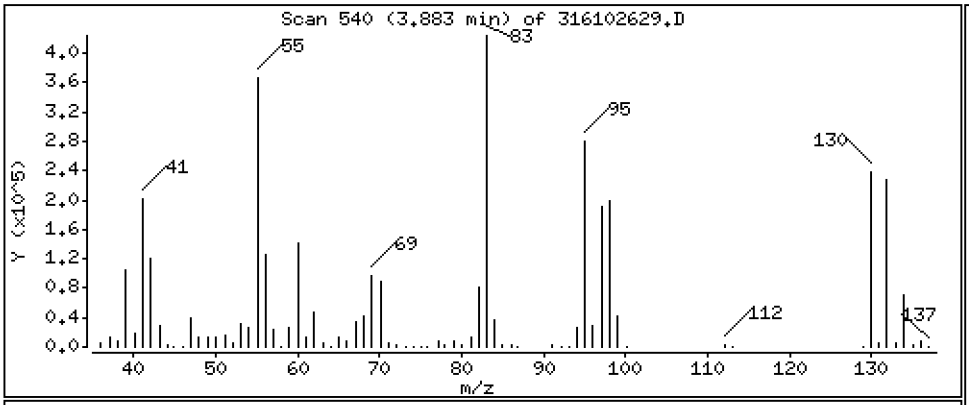
Client ID: Instrument: ms03.i

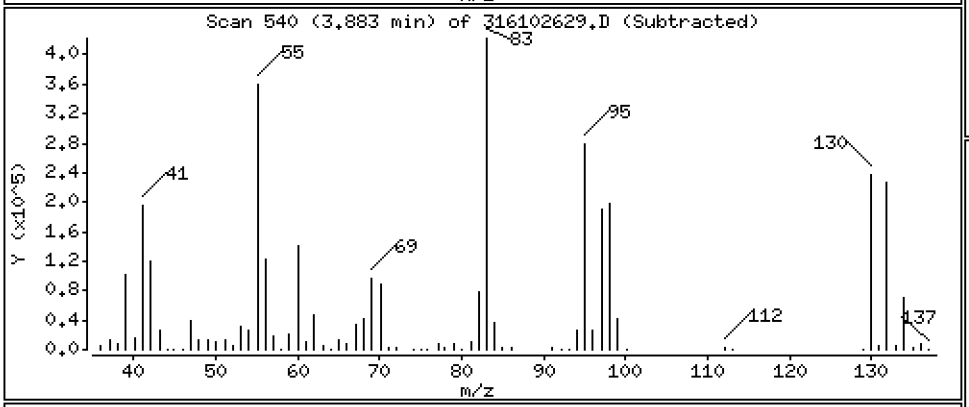
Sample Info: 1801;;1;2;4;;;

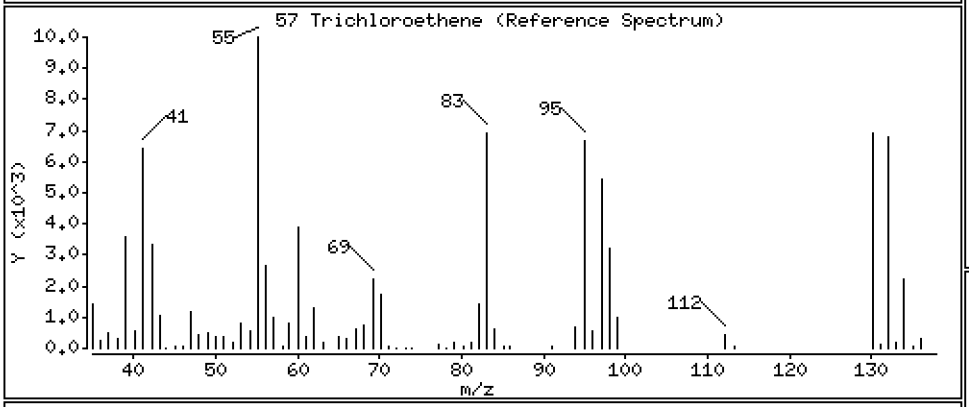
Purge Volume: 5.0 Operator: DD

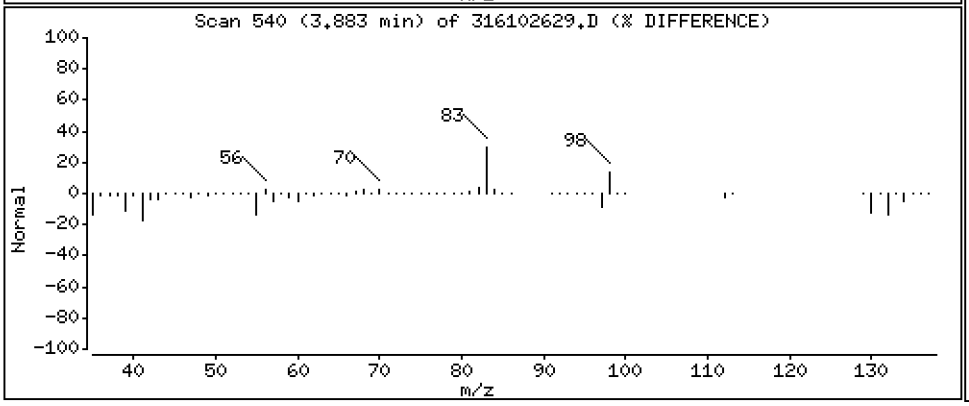
Column phase: DB-VRX Column diameter: 0.25

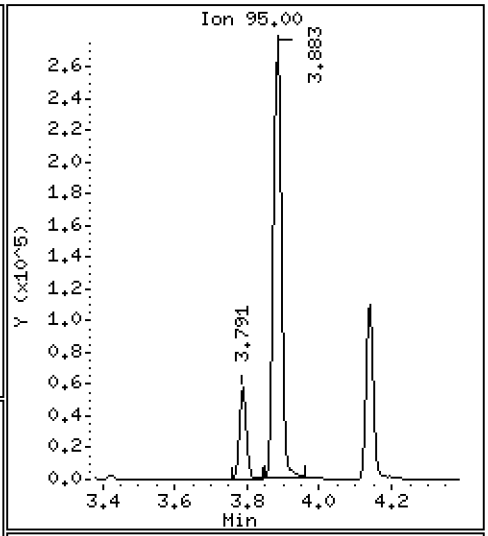
57 Trichloroethene Concentration: 46.6155 ug/L

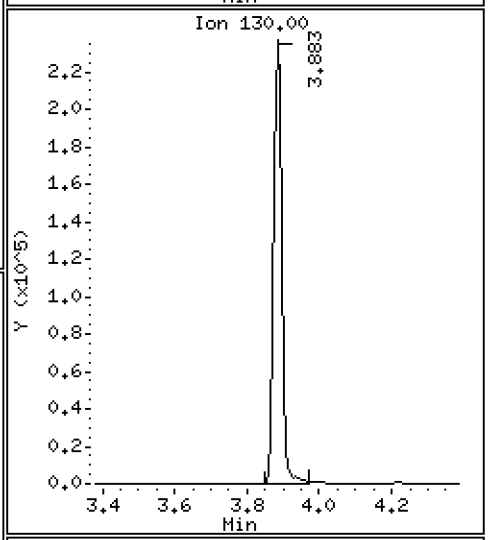


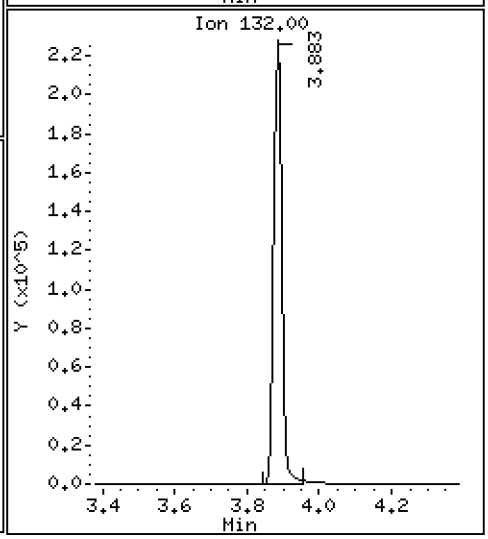












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 67

Date : 26-OCT-2016 19:41

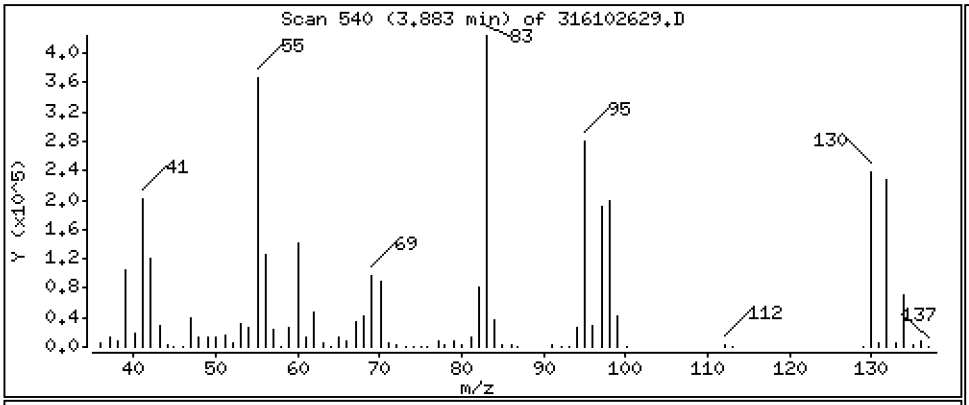
Client ID: Instrument: ms03.i

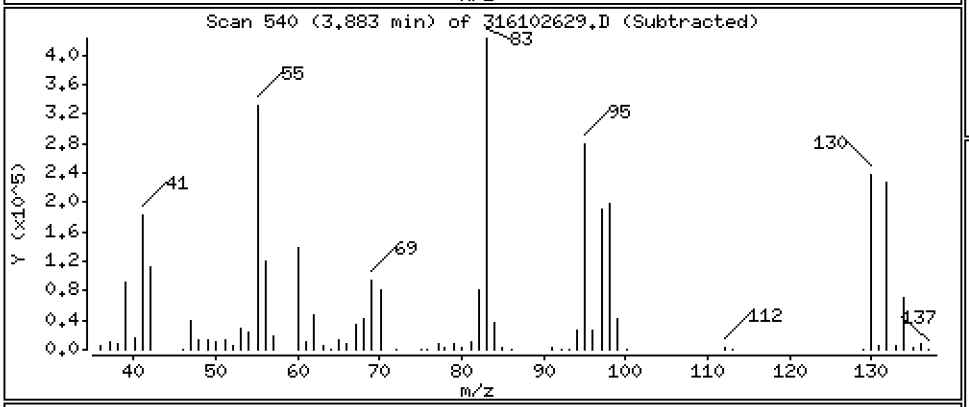
Sample Info: 1801;;1;2;4;;;

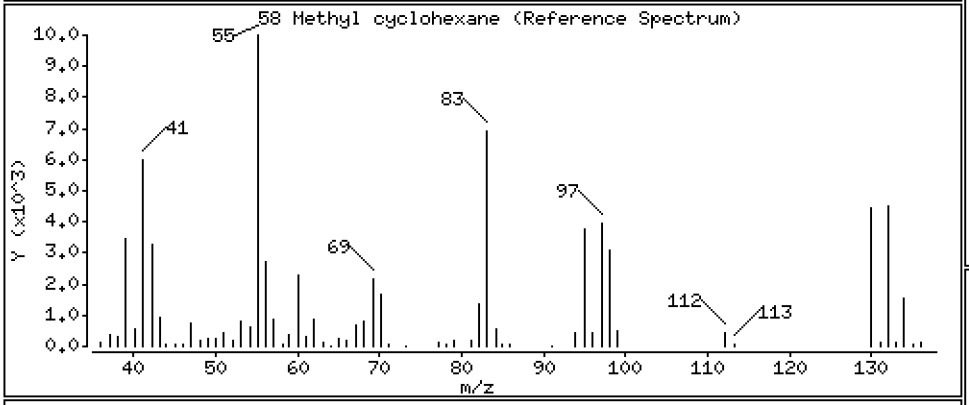
Purge Volume: 5.0 Operator: DD

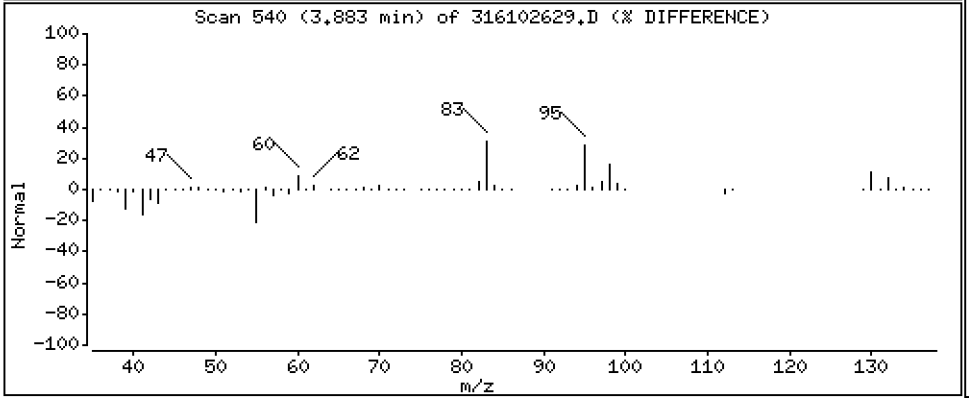
Column phase: DB-VRX Column diameter: 0.25

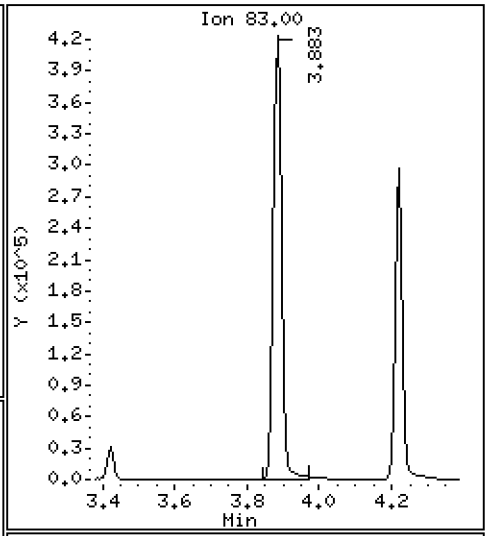
58 Methyl cyclohexane Concentration: 45.1665 ug/L

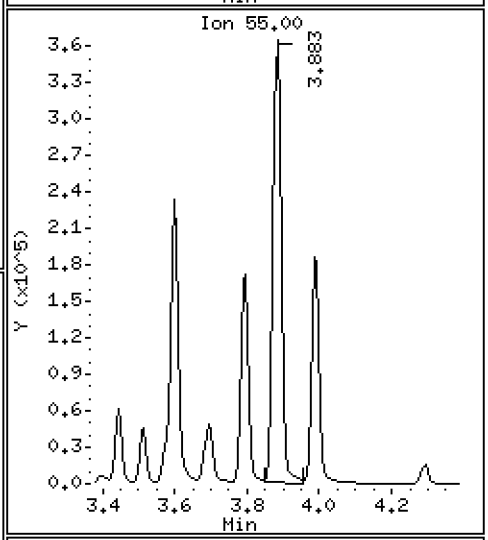


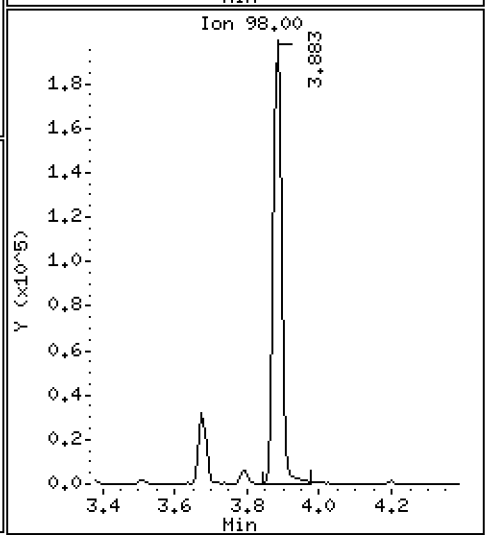












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 68

Date : 26-OCT-2016 19:41

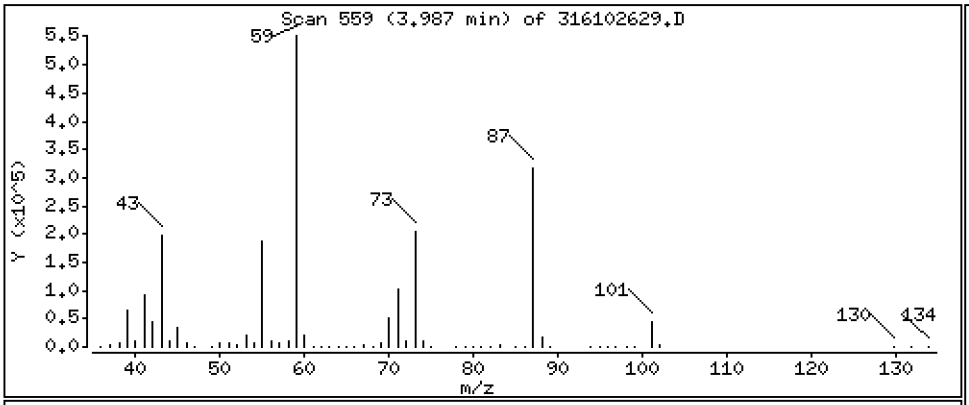
Client ID: Instrument: ms03.i

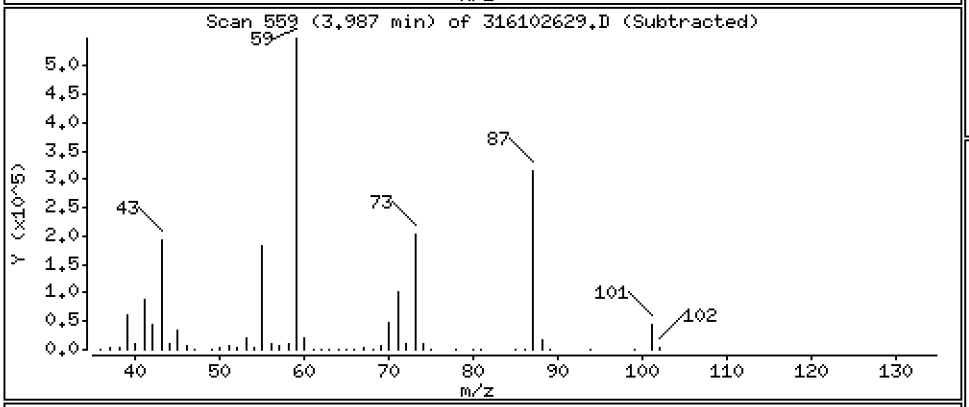
Sample Info: 1801;;1;2;4;;;

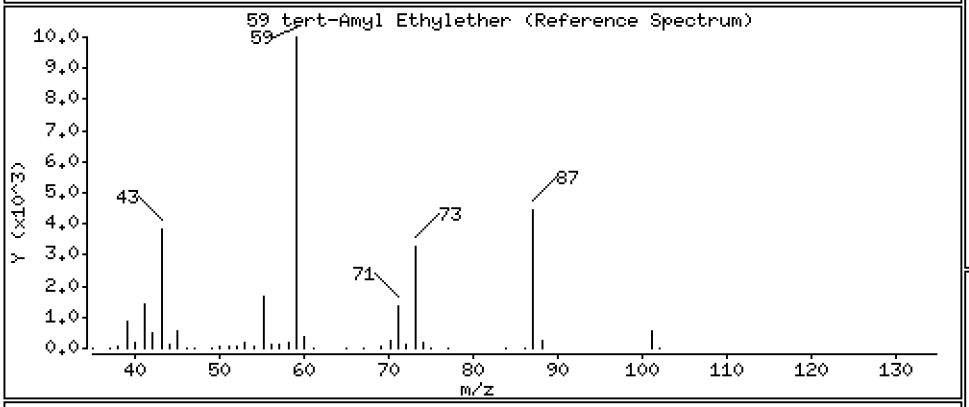
Purge Volume: 5.0 Operator: DD

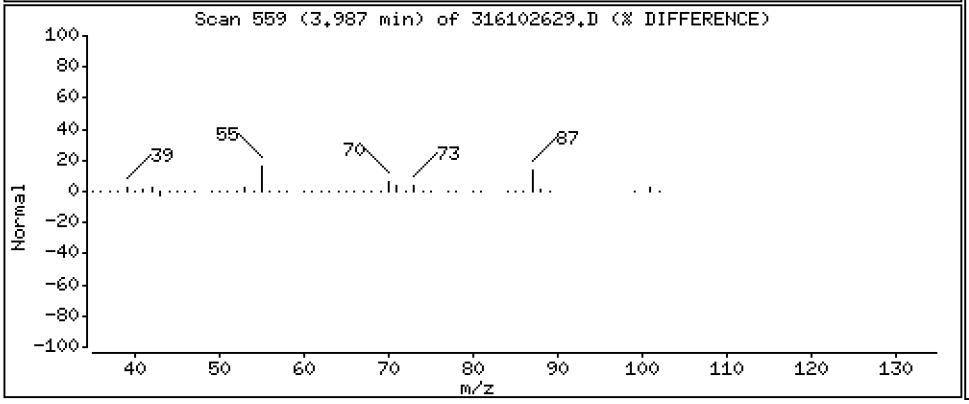
Column phase: DB-VRX Column diameter: 0.25

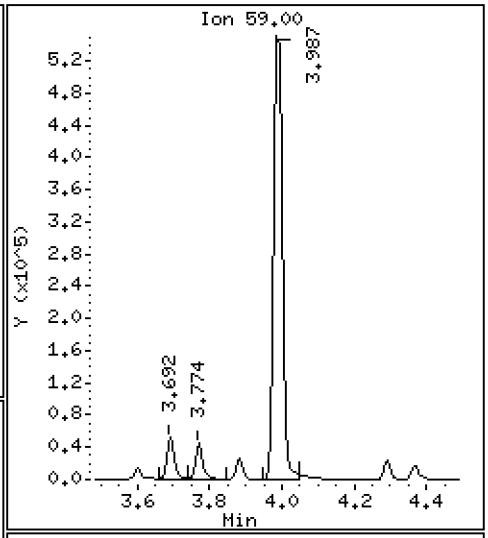
59 tert-Amyl Ethylether Concentration: 51.8019 ug/L

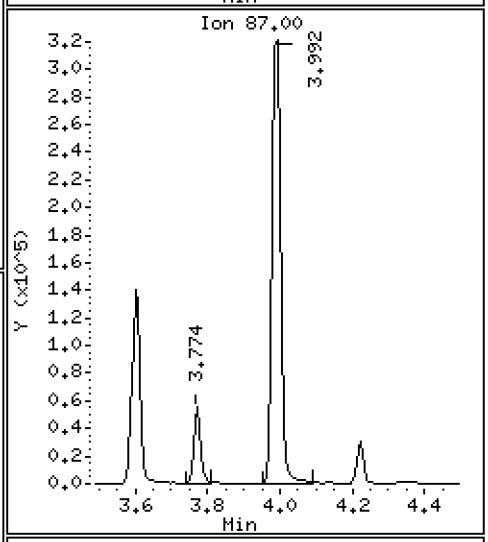


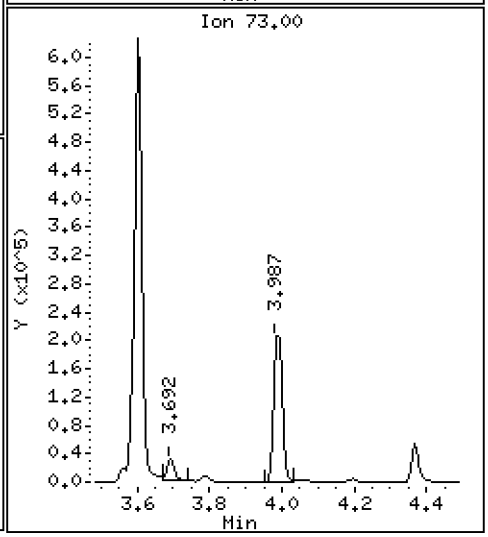












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 69

Date : 26-OCT-2016 19:41

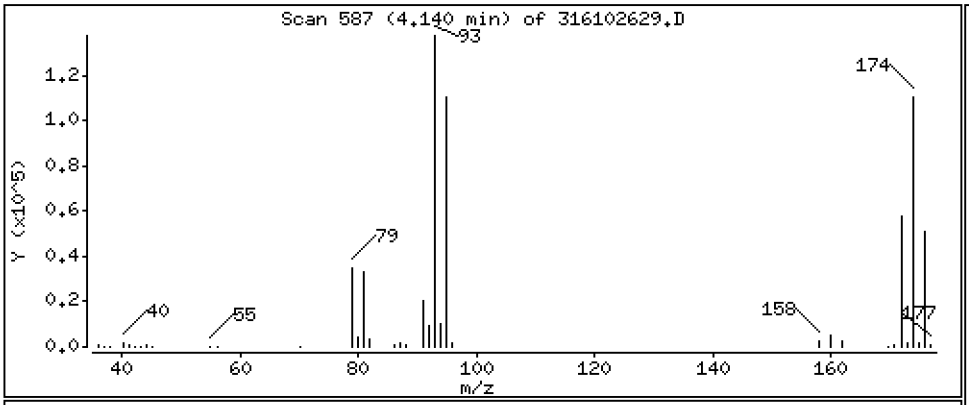
Client ID: Instrument: ms03.i

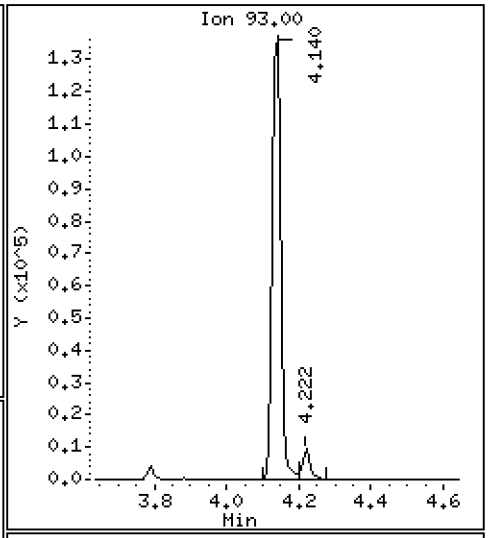
Sample Info: 1801;;1;2;4;;;

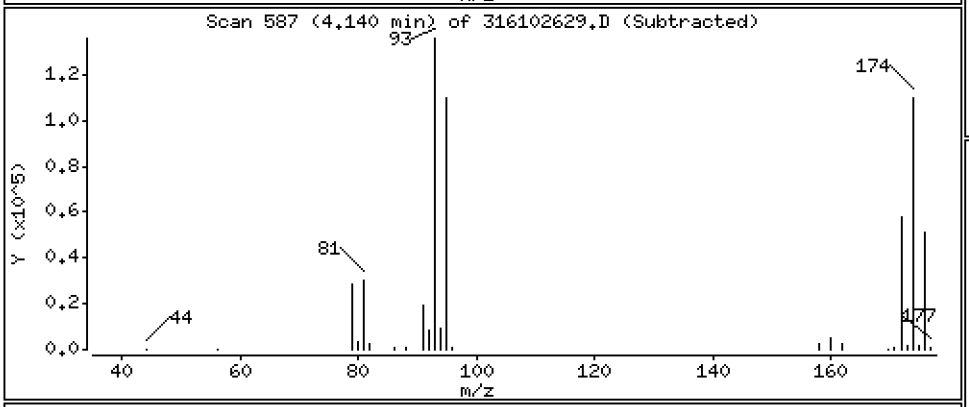
Purge Volume: 5.0 Operator: DD

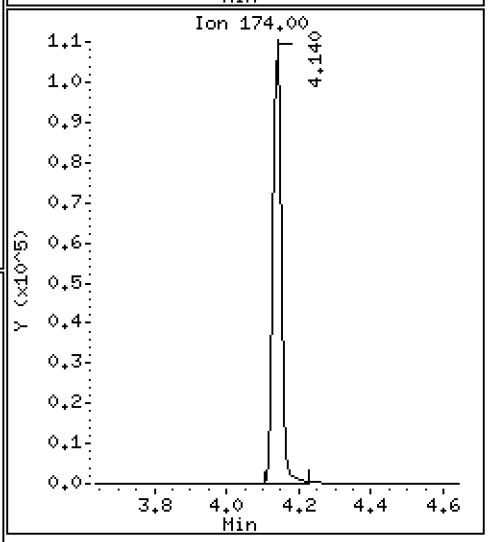
Column phase: DB-VRX Column diameter: 0.25

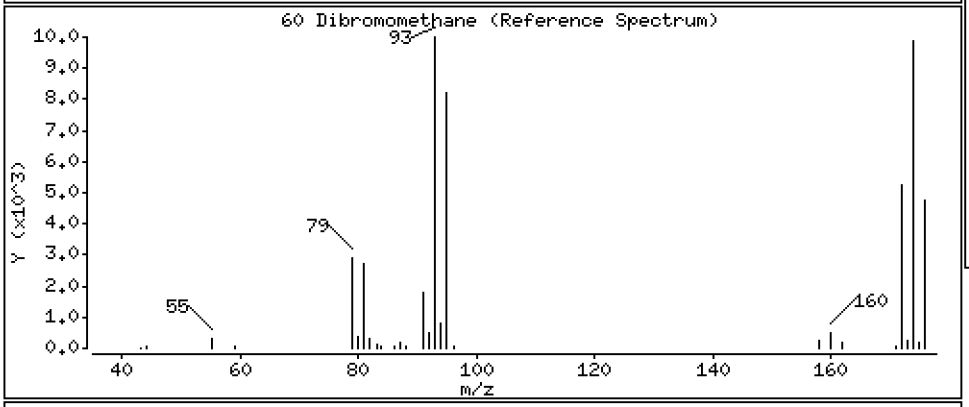
60 Dibromomethane Concentration: 48.5688 ug/L

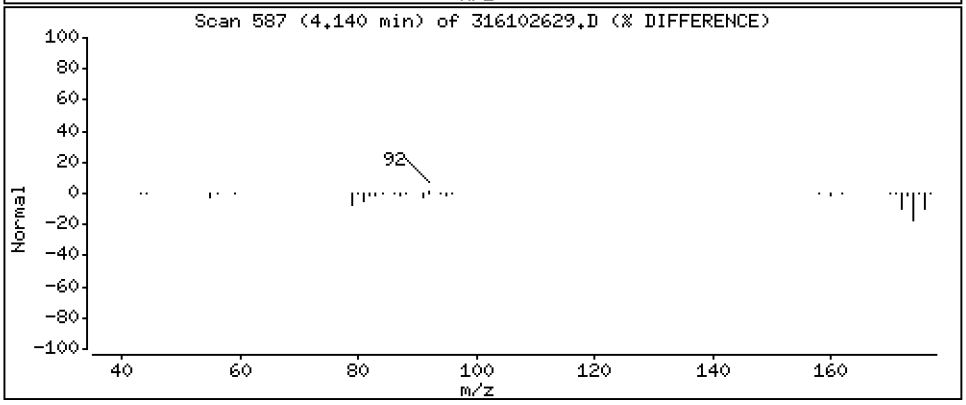












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 70

Date : 26-OCT-2016 19:41

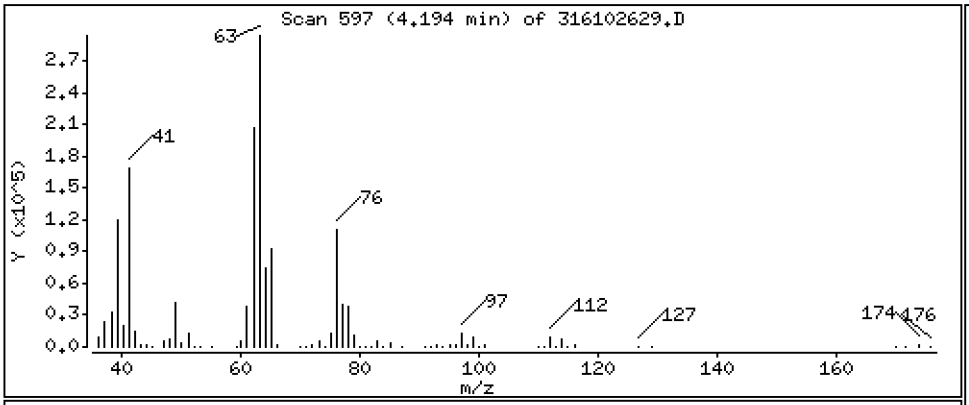
Client ID: Instrument: ms03.i

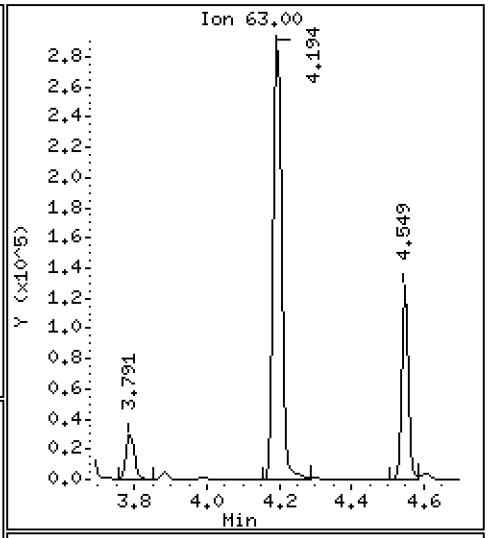
Sample Info: 1801;;1;2;4;;;

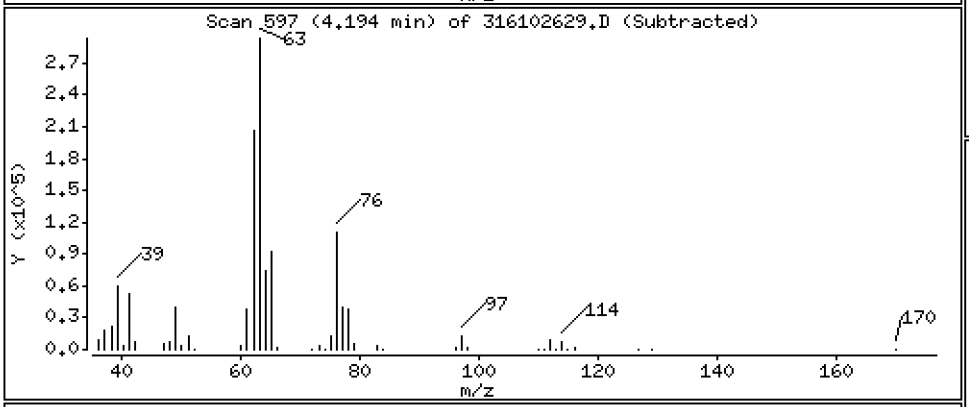
Purge Volume: 5.0 Operator: DD

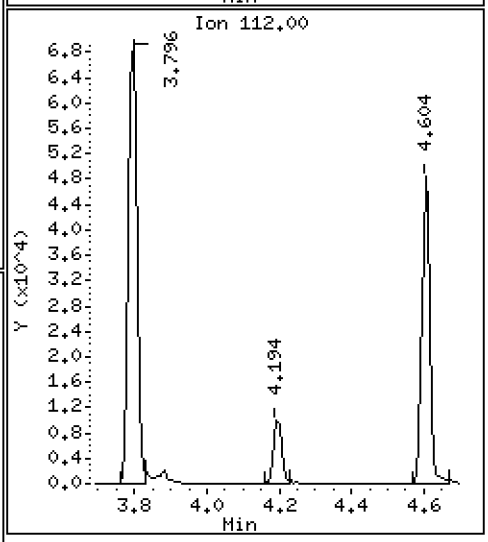
Column phase: DB-VRX Column diameter: 0.25

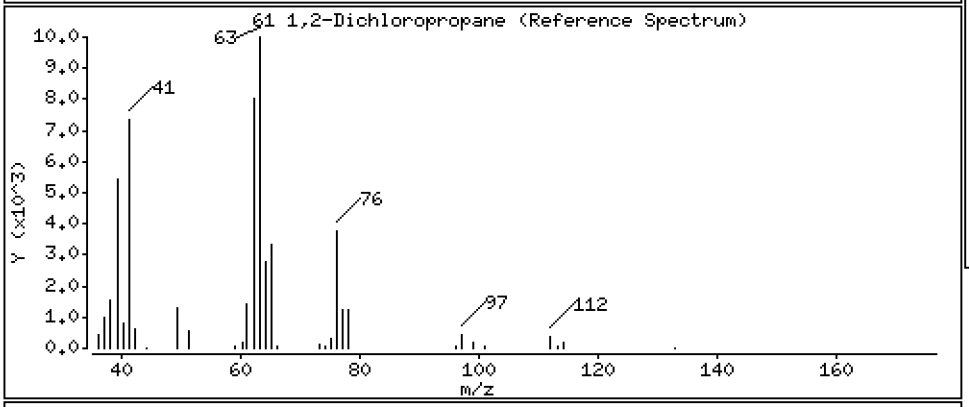
61 1,2-Dichloropropane Concentration: 50.8111 ug/L

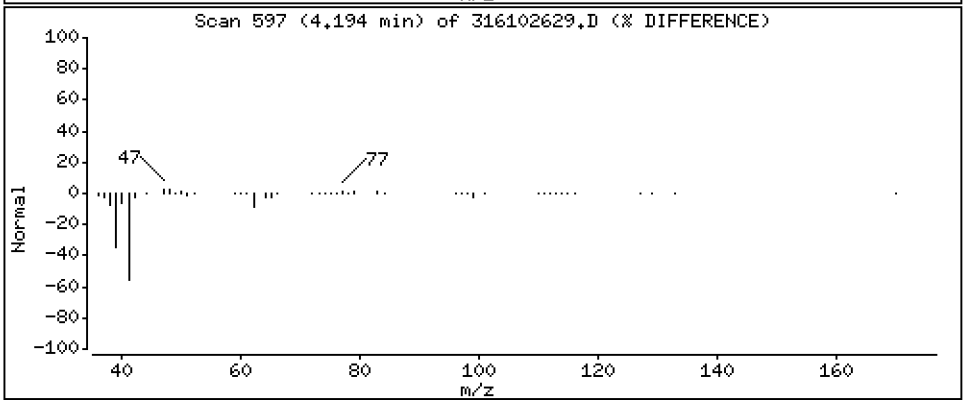












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 71

Date : 26-OCT-2016 19:41

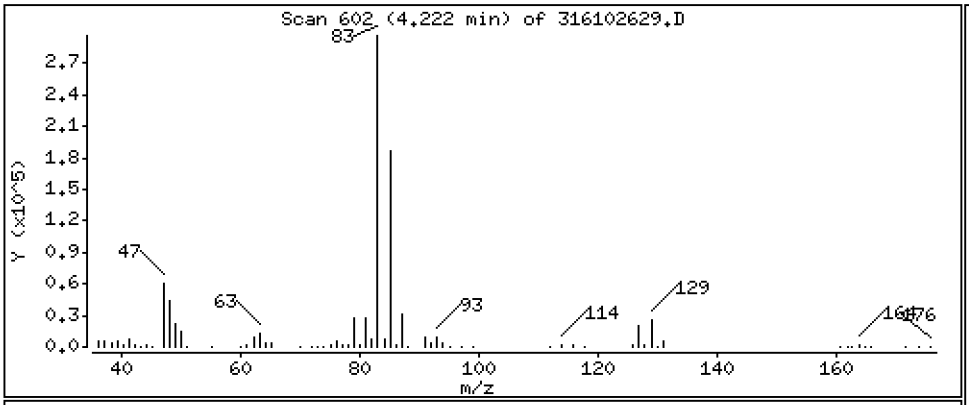
Client ID: Instrument: ms03.i

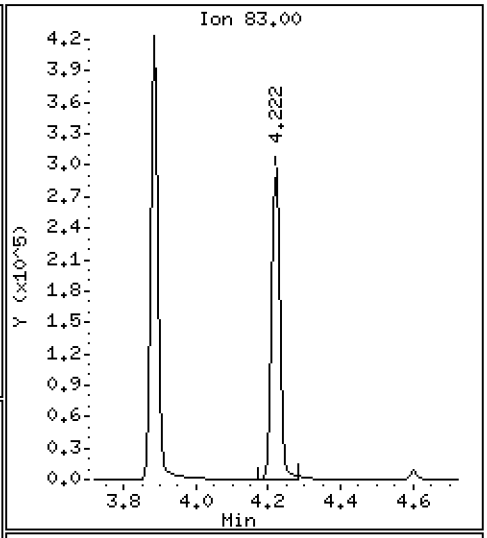
Sample Info: 1801;;1;2;4;;;

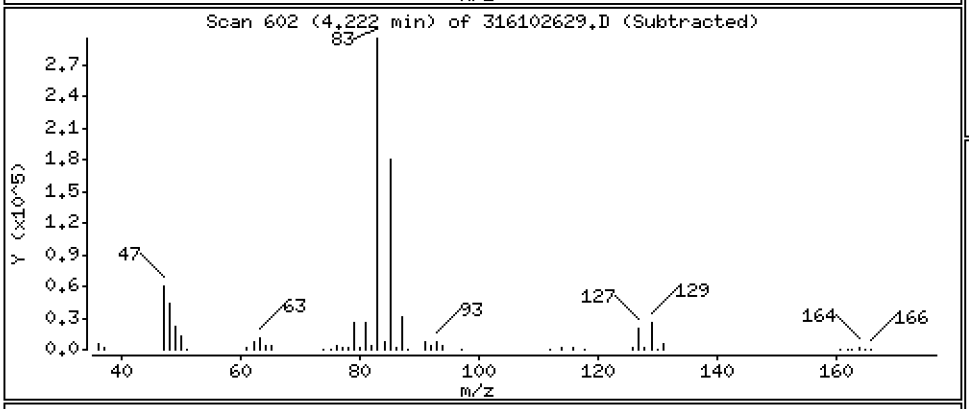
Purge Volume: 5.0 Operator: DD

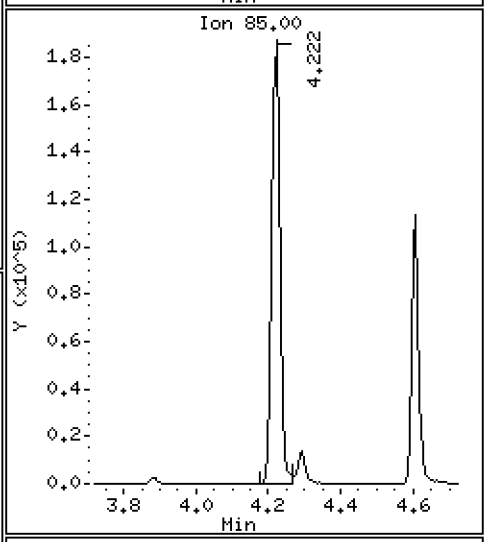
Column phase: DB-VRX Column diameter: 0.25

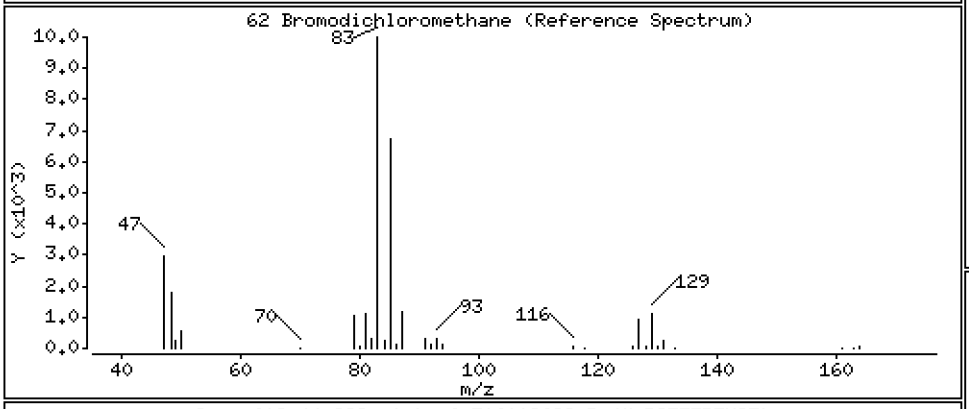
62 Bromodichloromethane Concentration: 50.6205 ug/L

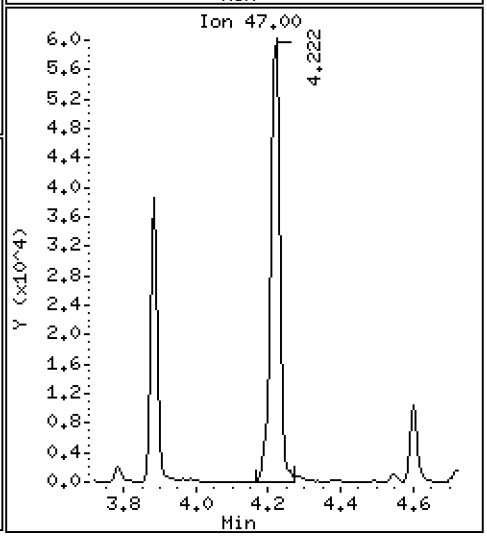


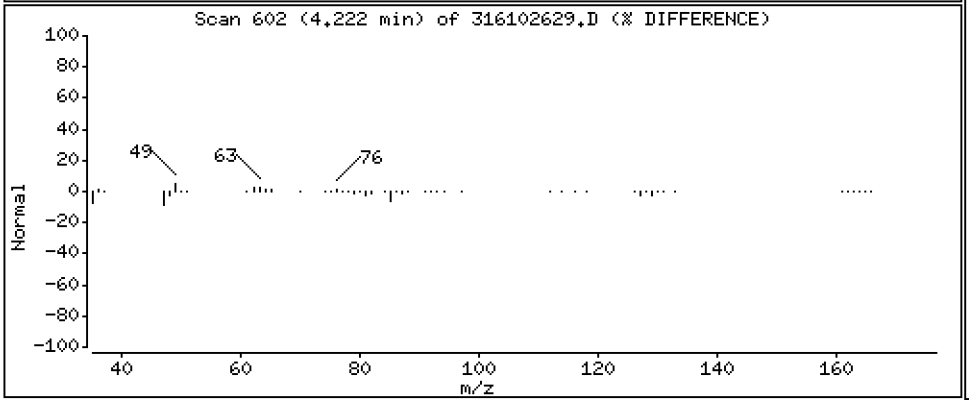












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 72

Date : 26-OCT-2016 19:41

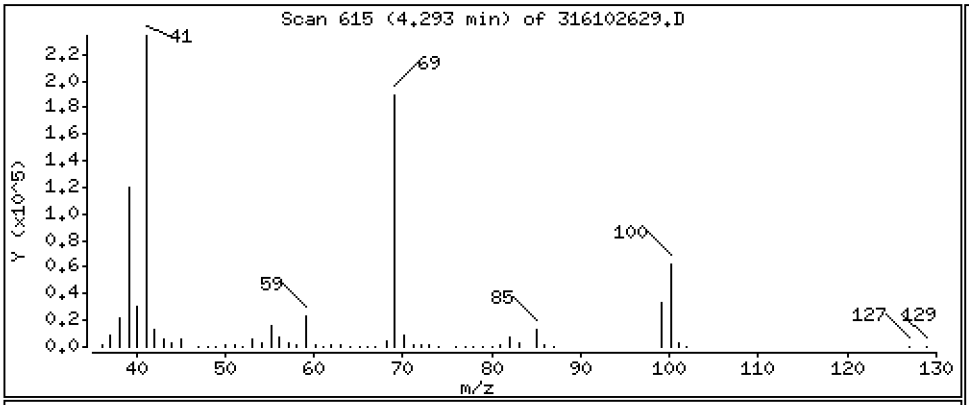
Client ID: Instrument: ms03.i

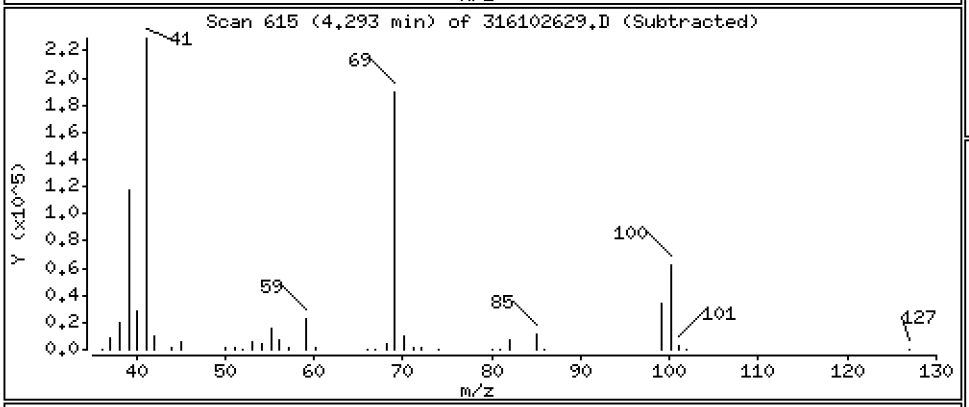
Sample Info: 1801;;1;2;4;;;

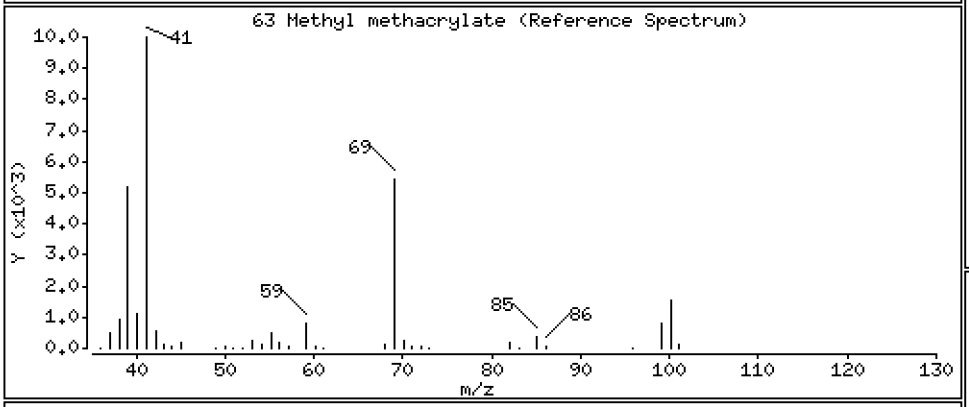
Purge Volume: 5.0 Operator: DD

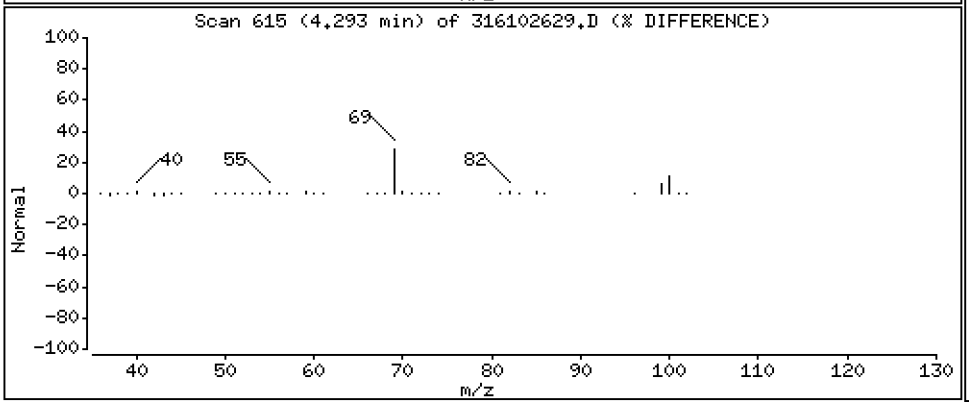
Column phase: DB-VRX Column diameter: 0.25

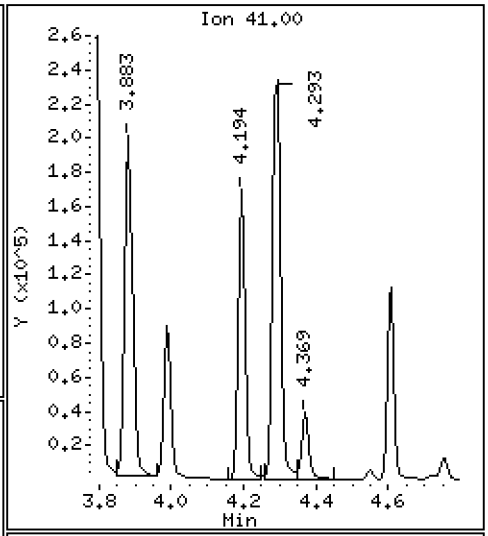
63 Methyl methacrylate Concentration: 57.1123 ug/L

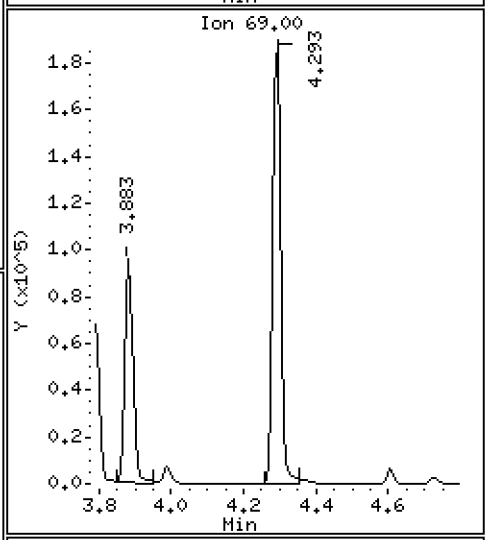


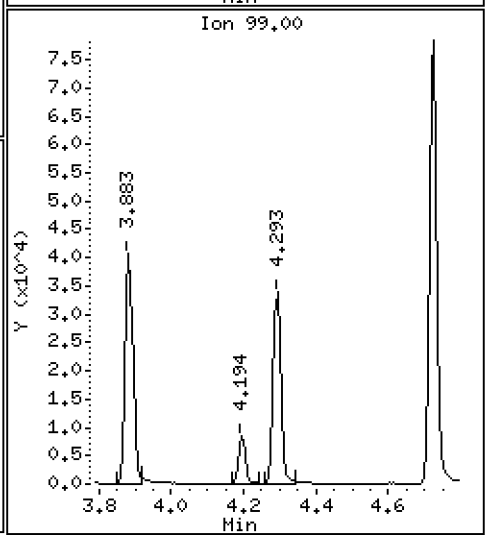












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 73

Date : 26-OCT-2016 19:41

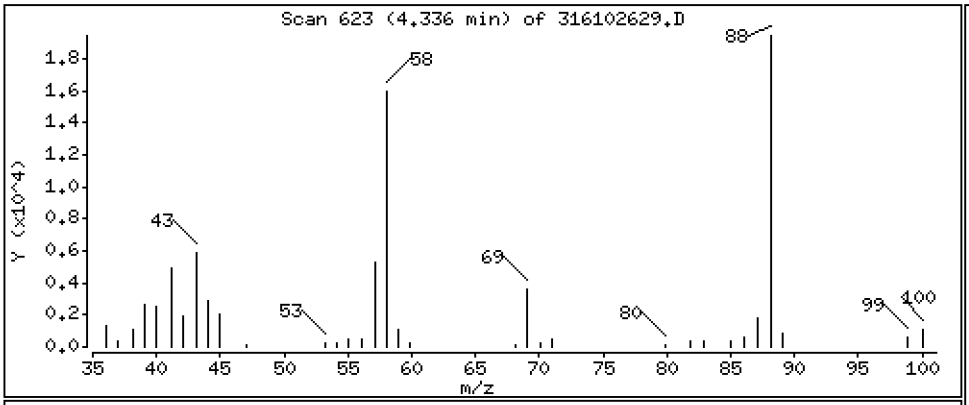
Client ID: Instrument: ms03.i

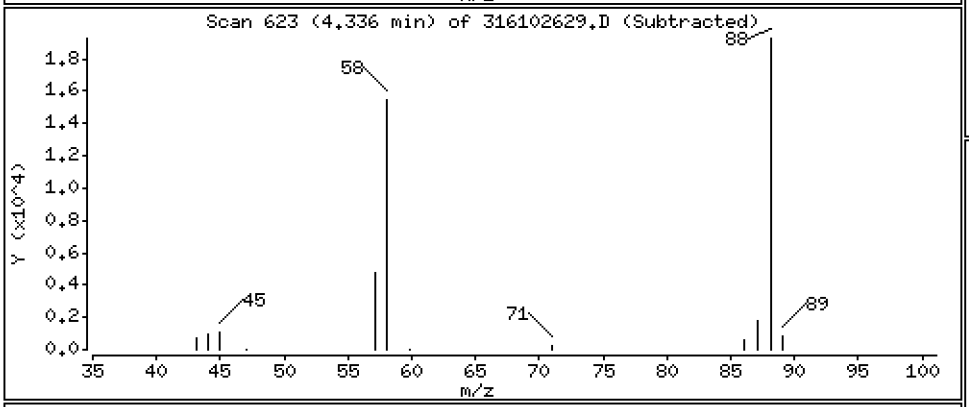
Sample Info: 1801;;1;2;4;;;

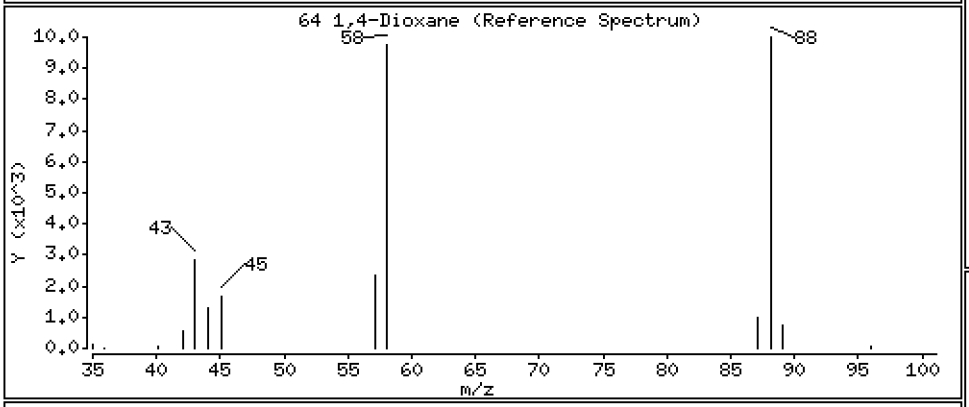
Purge Volume: 5.0 Operator: DD

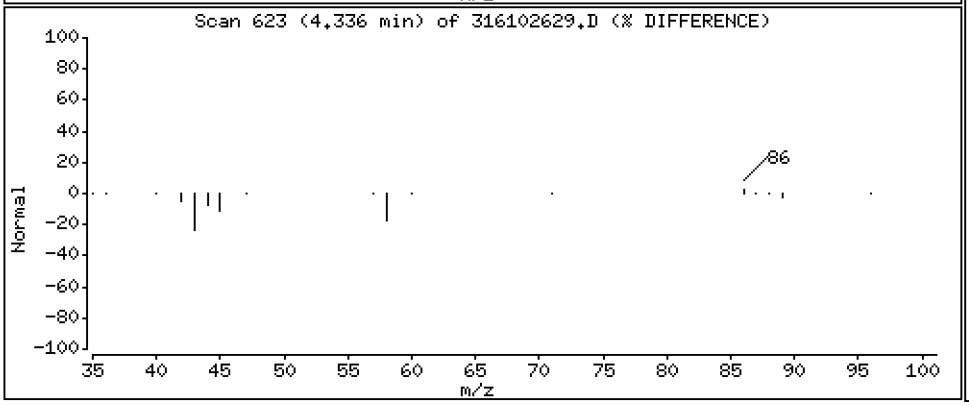
Column phase: DB-VRX Column diameter: 0.25

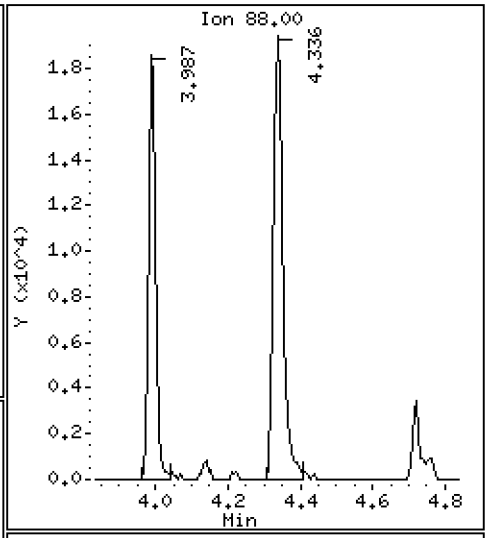
64 1,4-Dioxane Concentration: 1166.94 ug/L

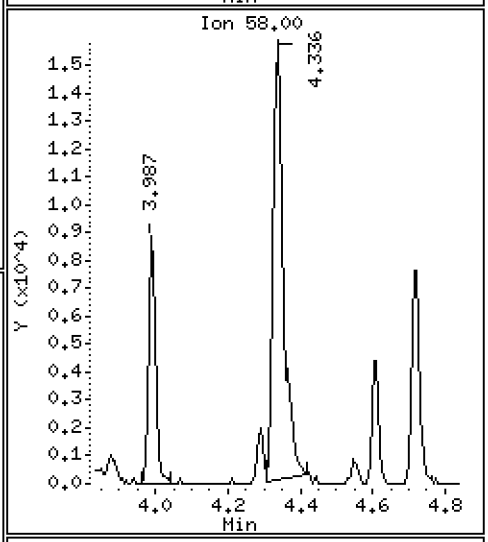


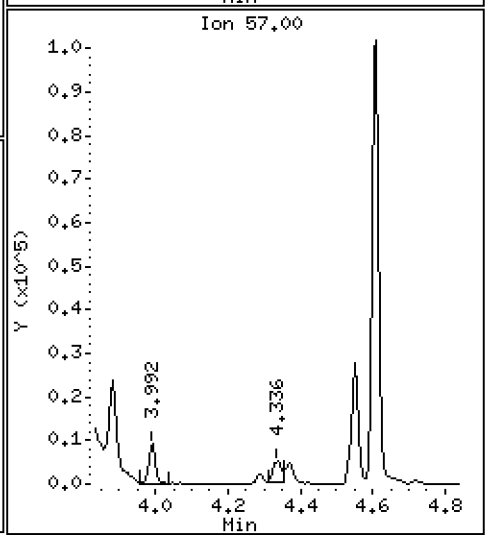












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 74

Date : 26-OCT-2016 19:41

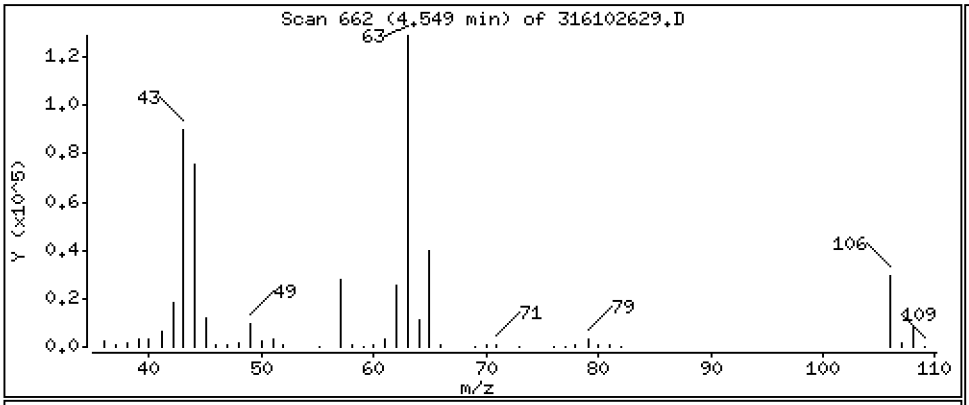
Client ID: Instrument: ms03.i

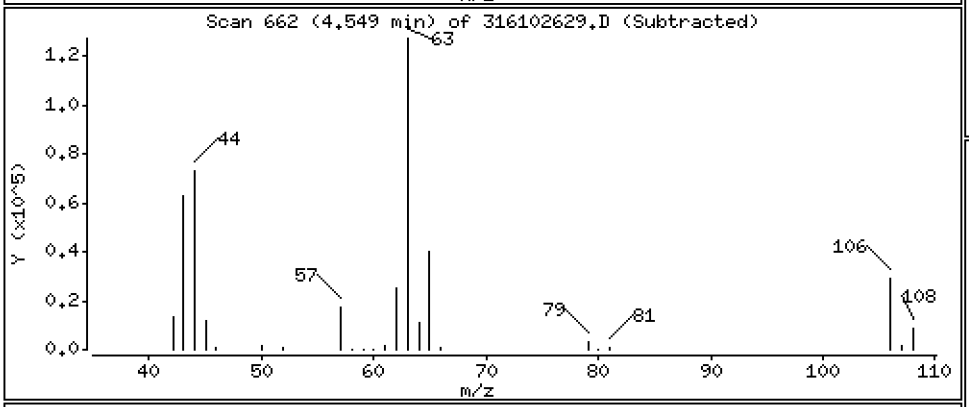
Sample Info: 1801;;1;2;4;;;

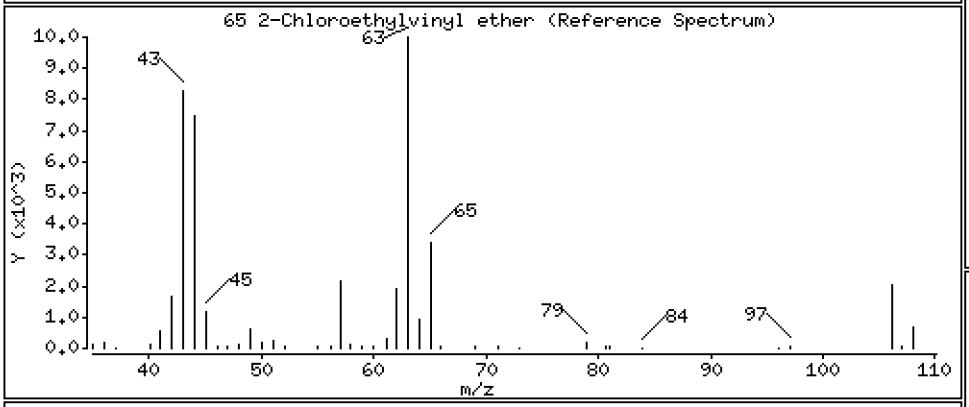
Purge Volume: 5.0 Operator: DD

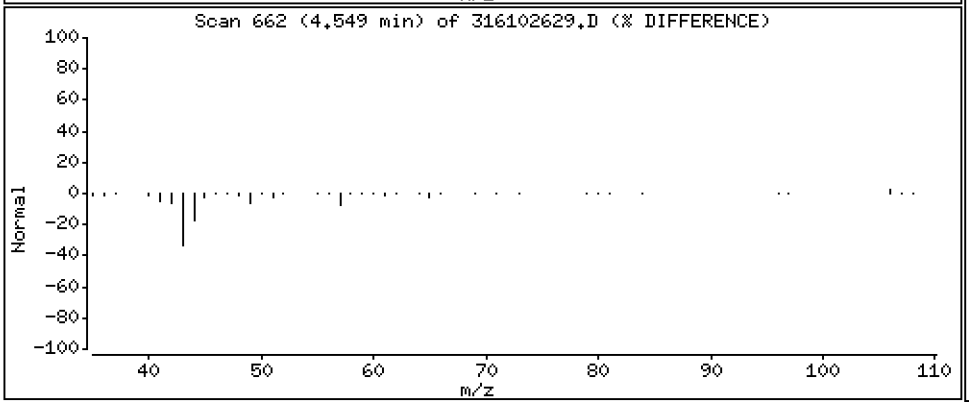
Column phase: DB-VRX Column diameter: 0.25

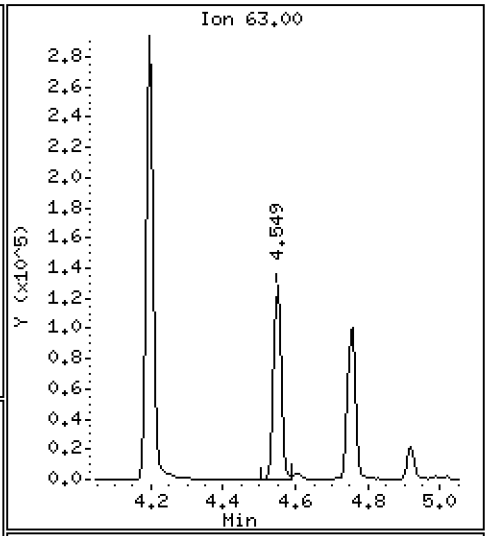
65 2-Chloroethylvinyl ether Concentration: 41.7359 ug/L

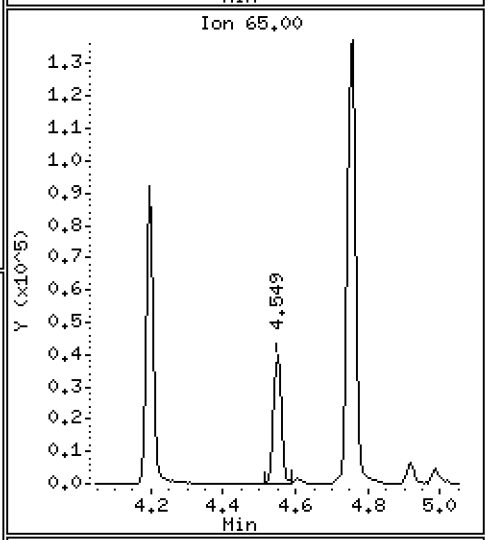


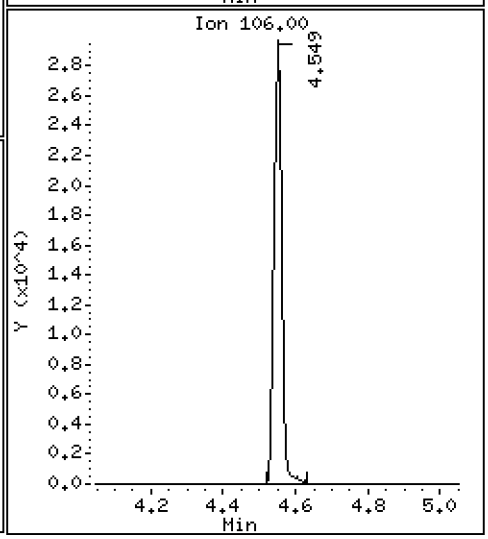












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 75

Date : 26-OCT-2016 19:41

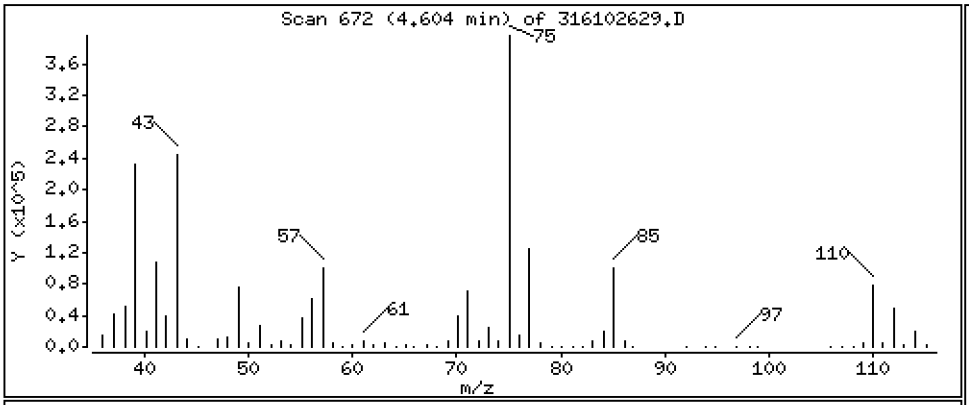
Client ID: Instrument: ms03.i

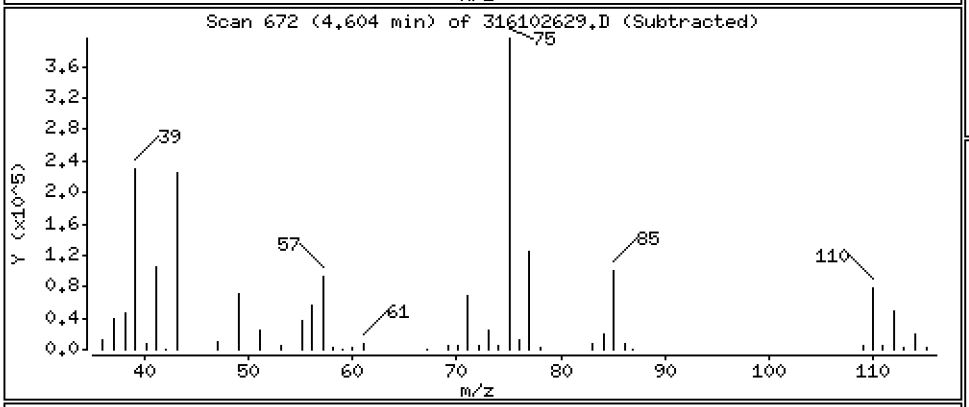
Sample Info: 1801;;1;2;4;;;

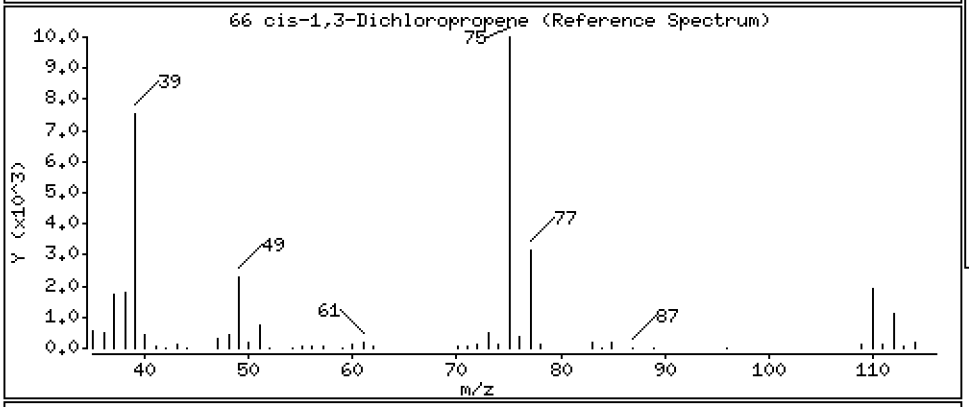
Purge Volume: 5.0 Operator: DD

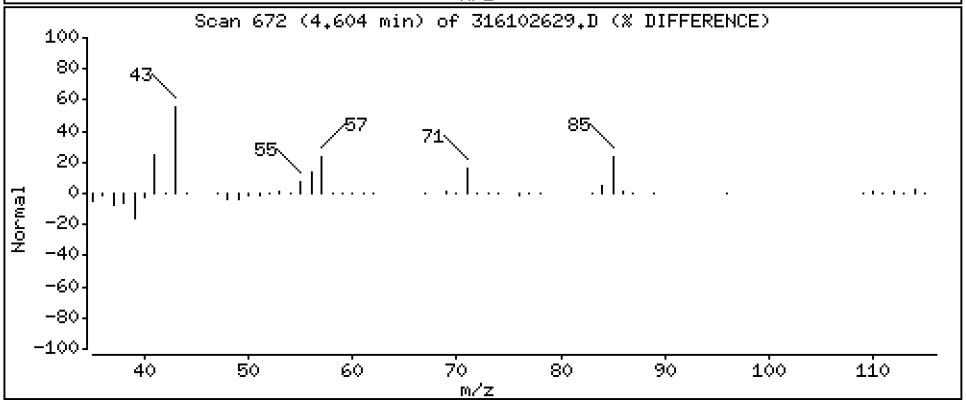
Column phase: DB-VRX Column diameter: 0.25

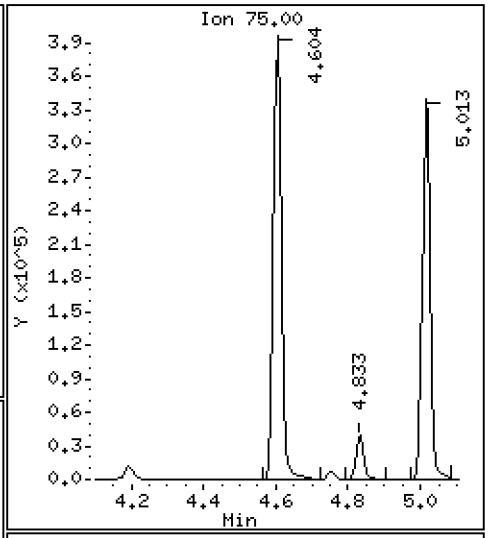
66 cis-1,3-Dichloropropene Concentration: 49.5394 ug/L

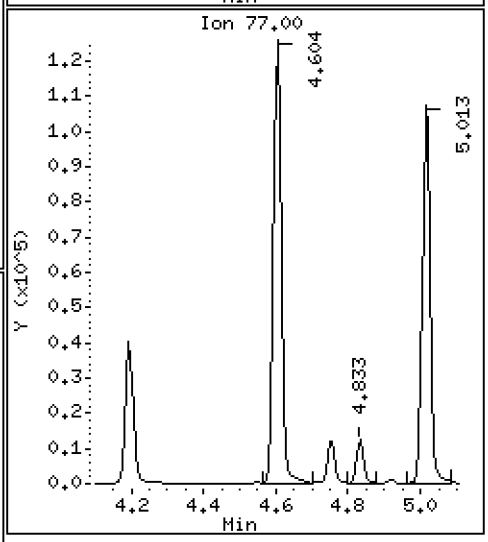












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 76

Date : 26-OCT-2016 19:41

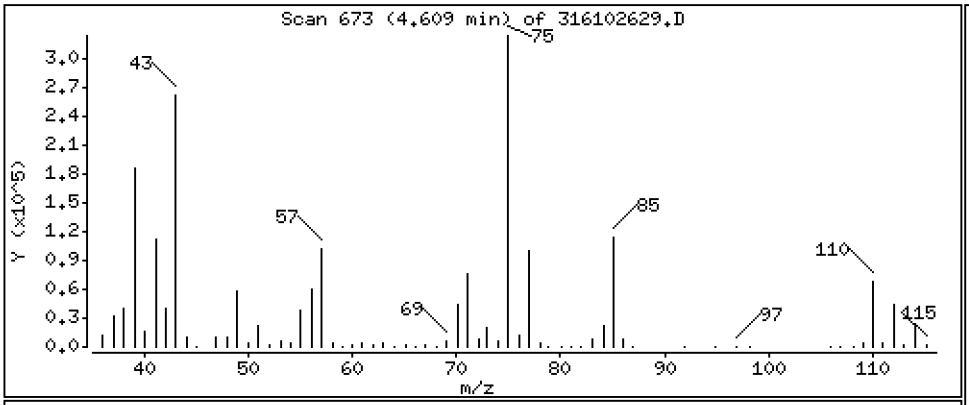
Client ID: Instrument: ms03.i

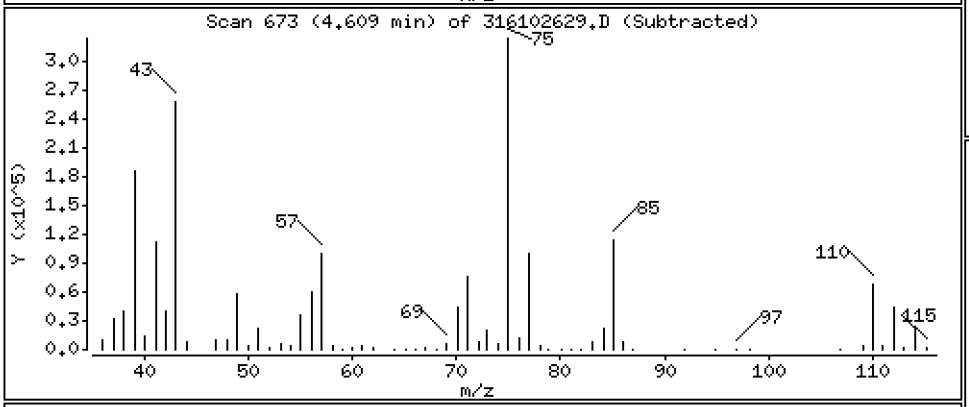
Sample Info: 1801;;1;2;4;;;

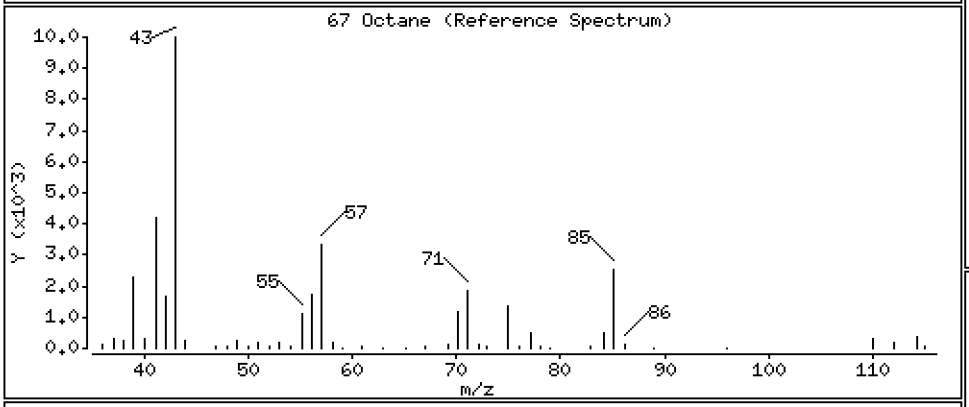
Purge Volume: 5.0 Operator: DD

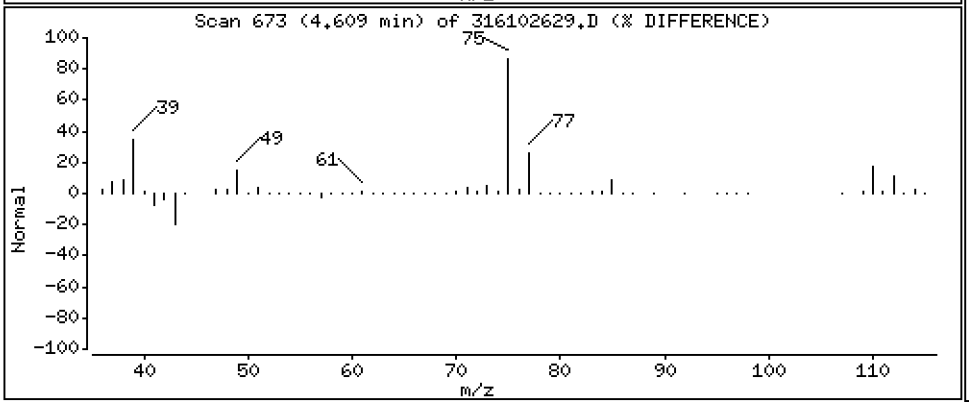
Column phase: DB-VRX Column diameter: 0.25

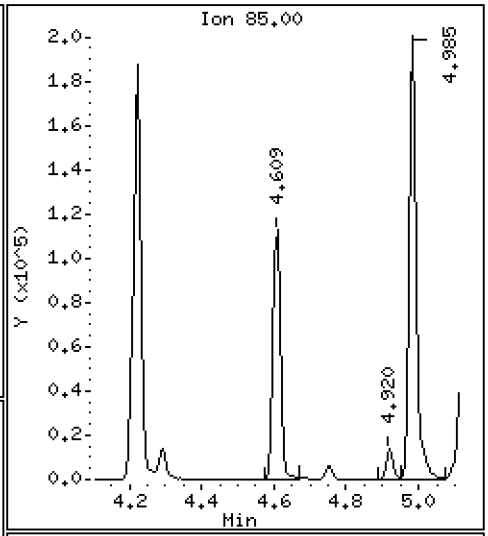
67 Octane Concentration: 43.8728 ug/L

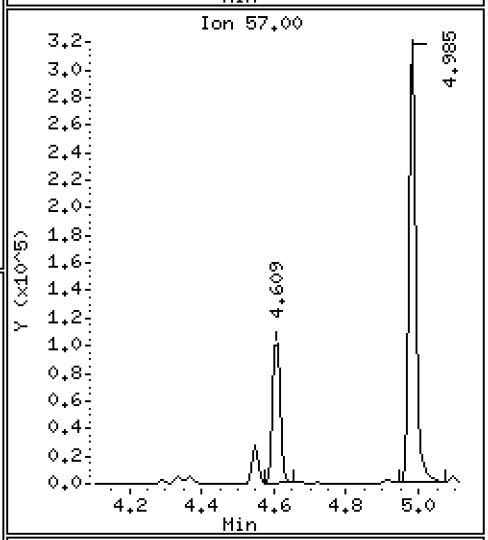


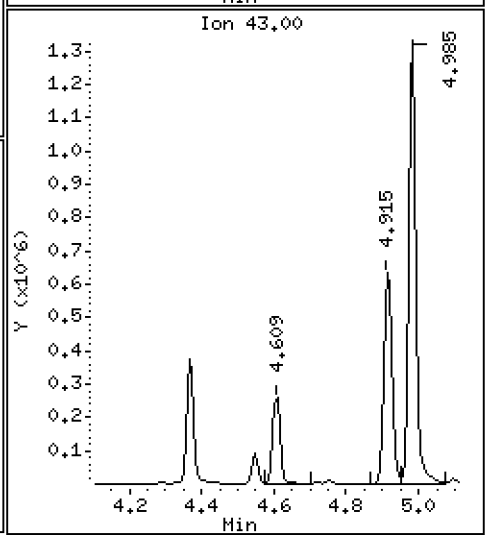












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 77

Date : 26-OCT-2016 19:41

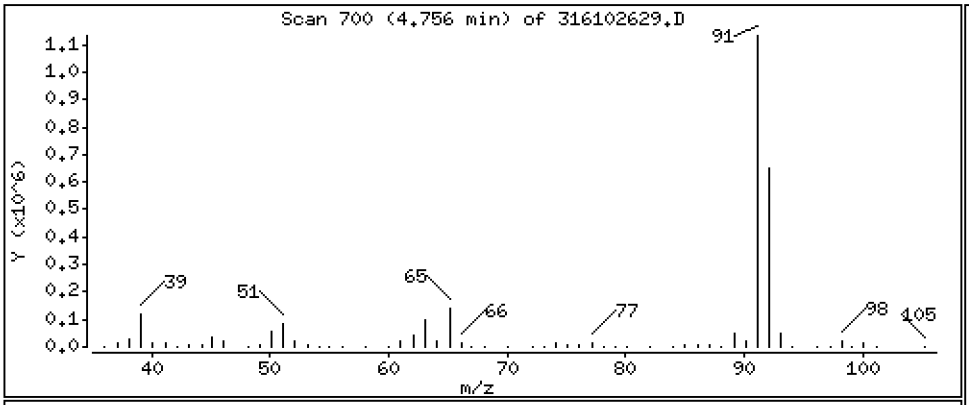
Client ID: Instrument: ms03.i

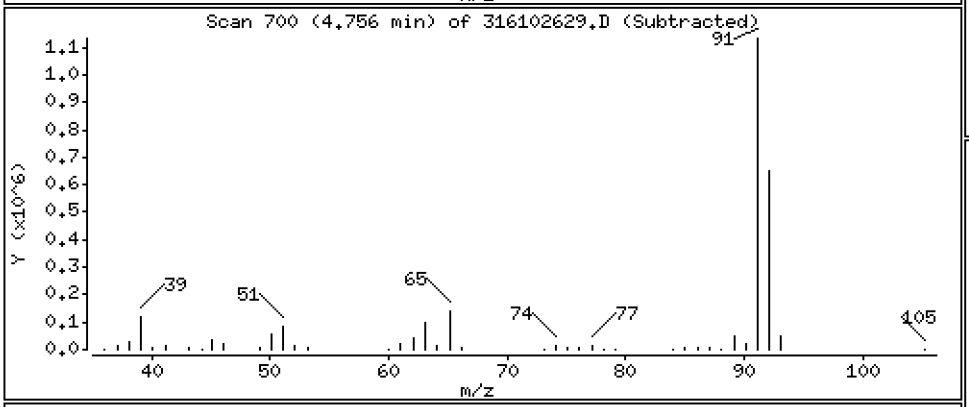
Sample Info: 1801;;1;2;4;;;

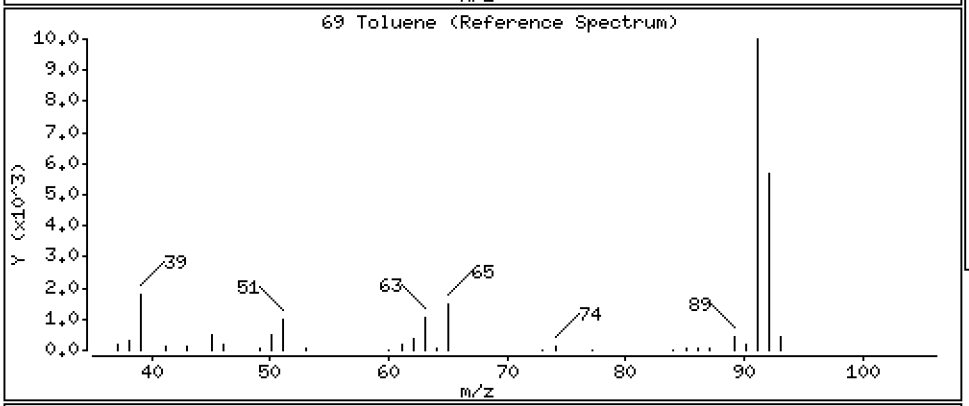
Purge Volume: 5.0 Operator: DD

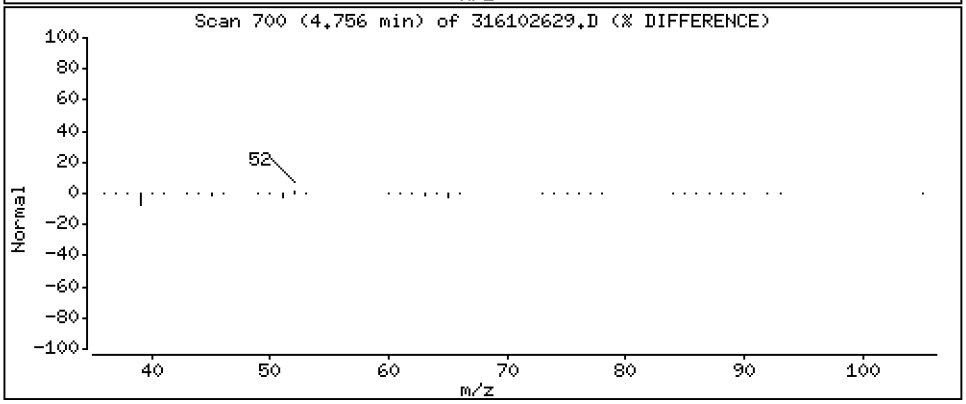
Column phase: DB-VRX Column diameter: 0.25

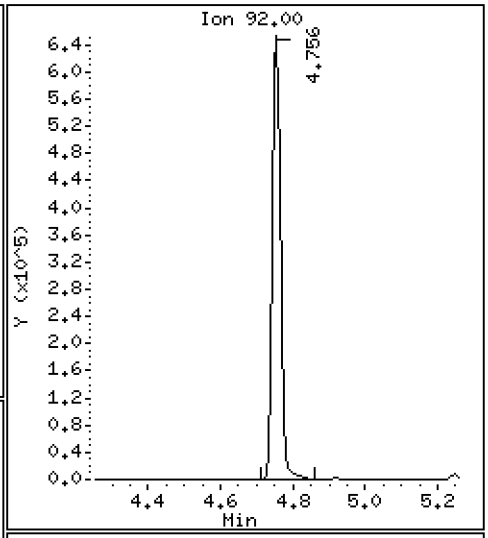
69 Toluene Concentration: 47.4437 ug/L

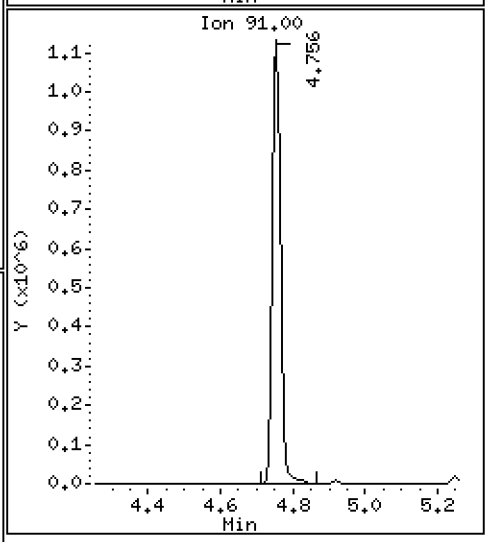












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 78

Date : 26-OCT-2016 19:41

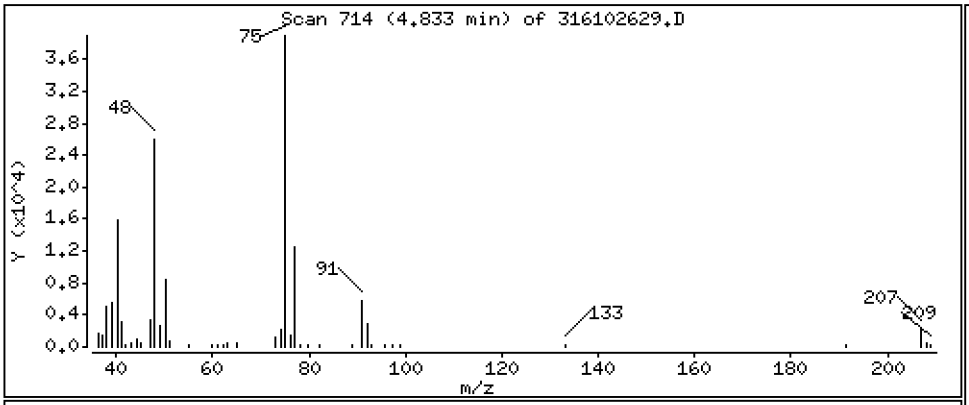
Client ID: Instrument: ms03.i

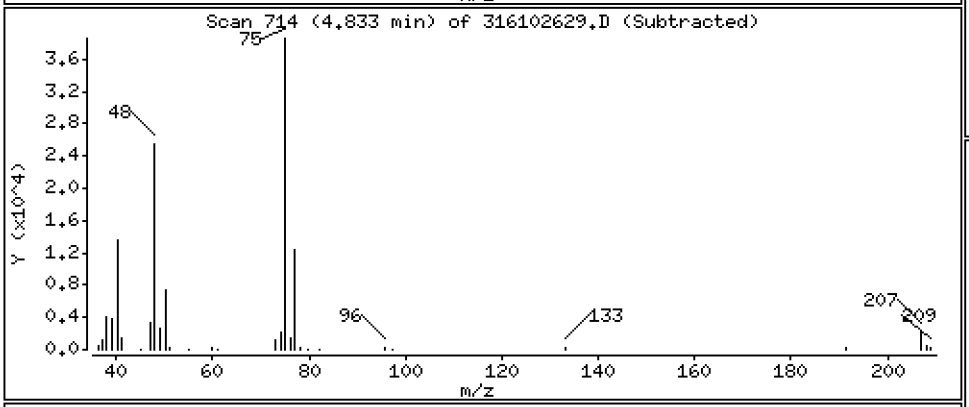
Sample Info: 1801;;1;2;4;;;

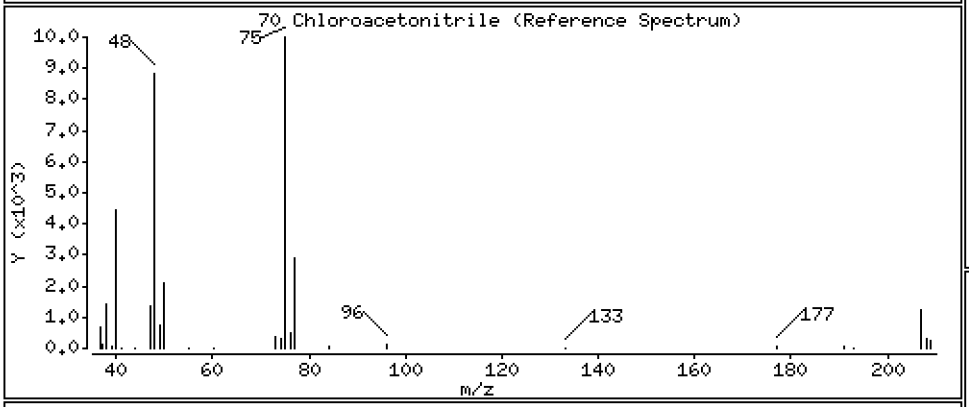
Purge Volume: 5.0 Operator: DD

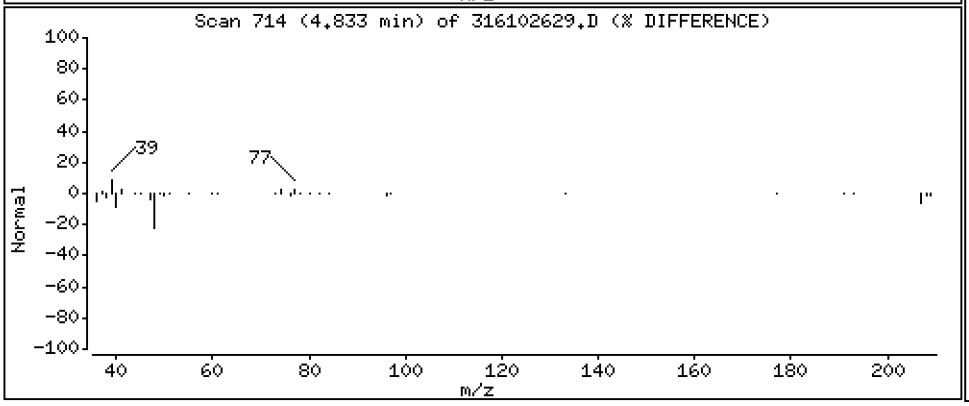
Column phase: DB-VRX Column diameter: 0.25

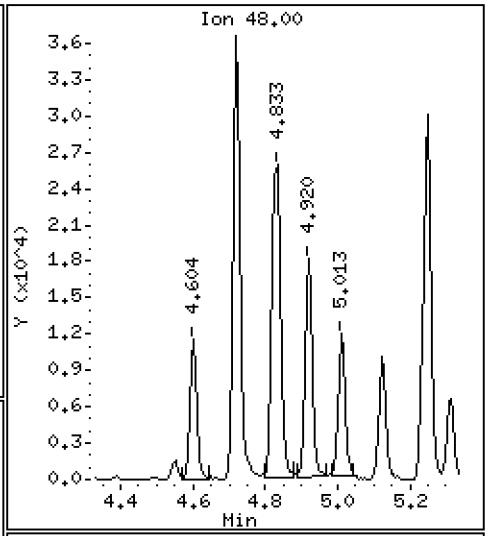
70 Chloroacetonitrile Concentration: 223.053 ug/L

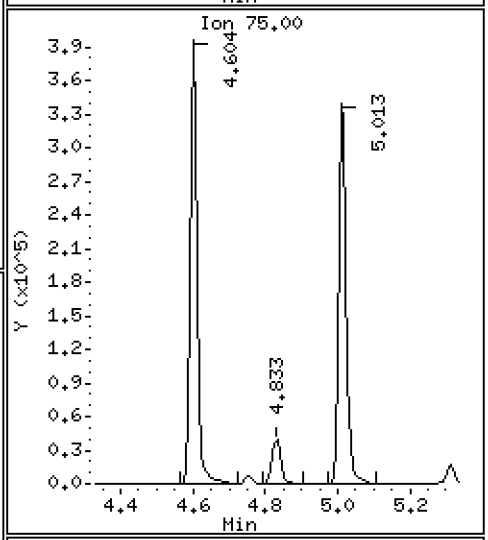


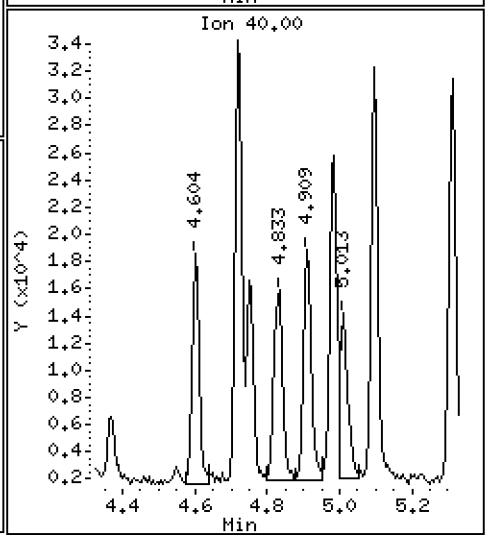












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 79

Date : 26-OCT-2016 19:41

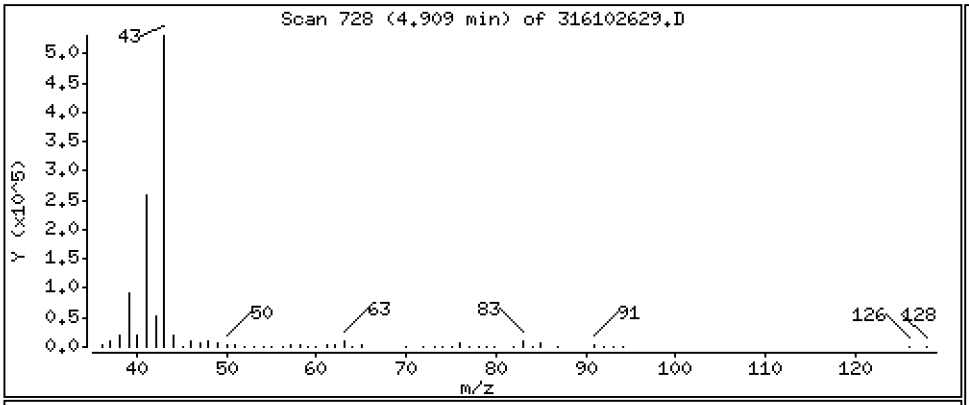
Client ID: Instrument: ms03.i

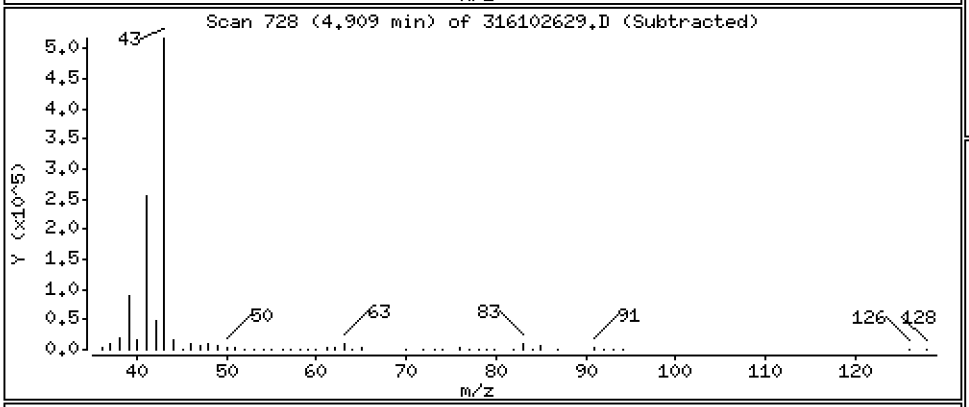
Sample Info: 1801;;1;2;4;;;

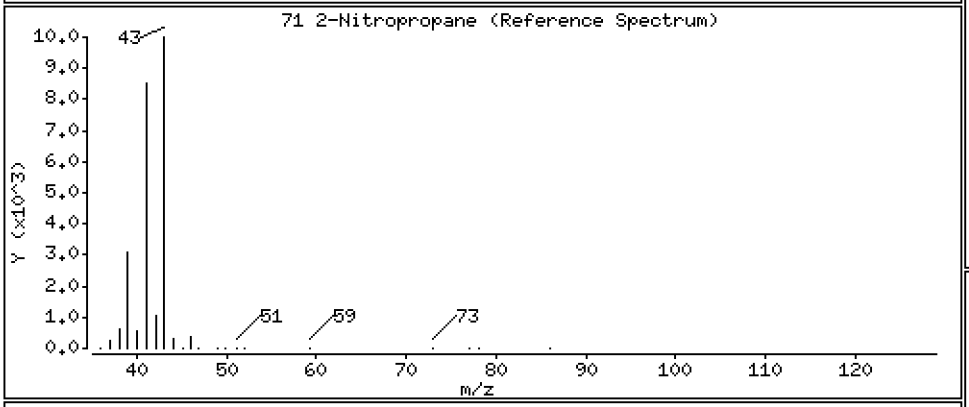
Purge Volume: 5.0 Operator: DD

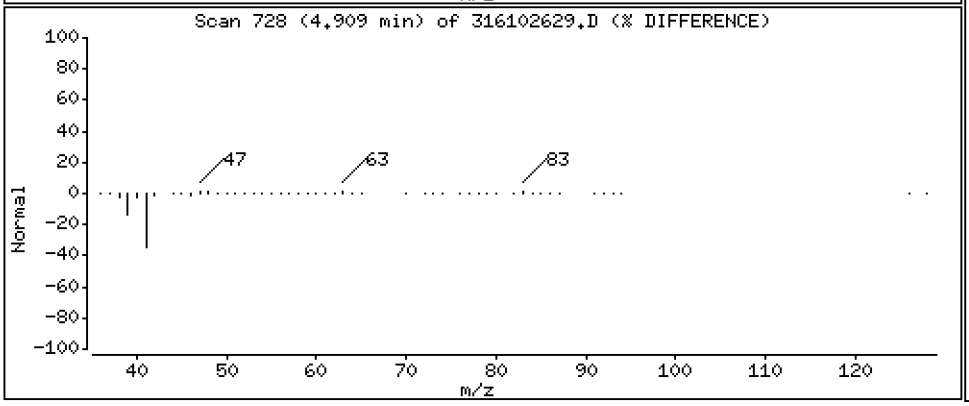
Column phase: DB-VRX Column diameter: 0.25

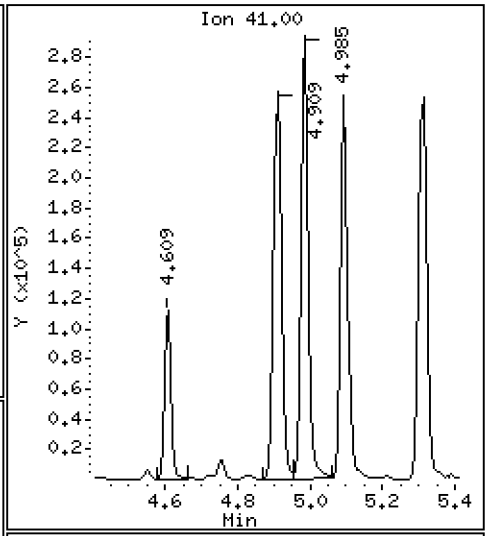
71 2-Nitropropane Concentration: 250.239 ug/L

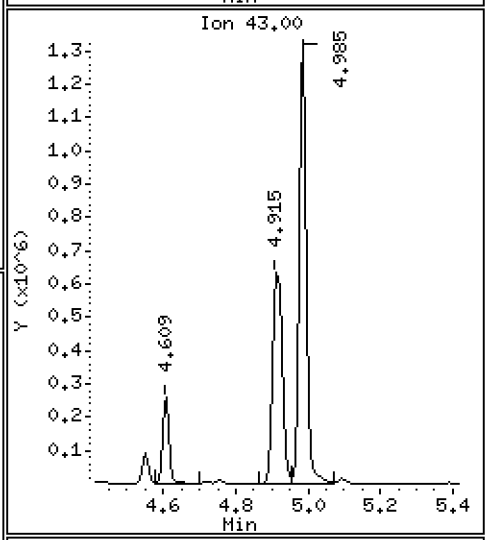


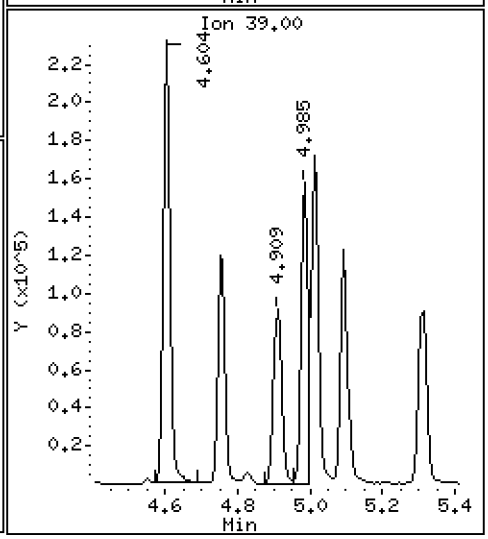












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 80

Date : 26-OCT-2016 19:41

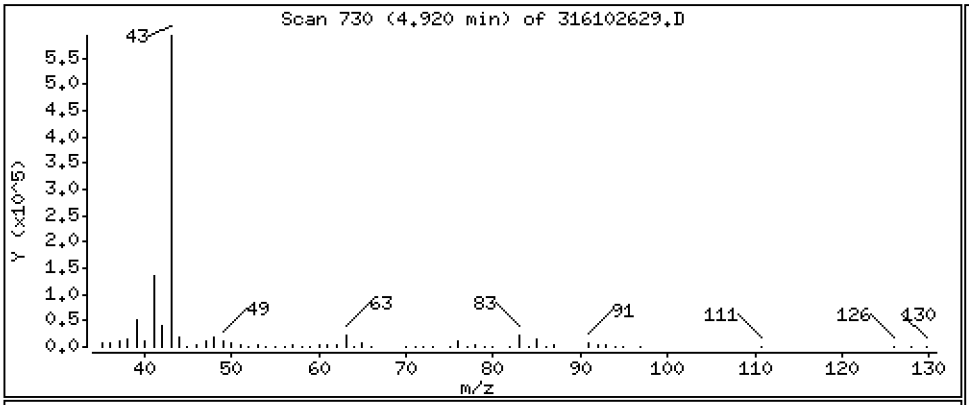
Client ID: Instrument: ms03.i

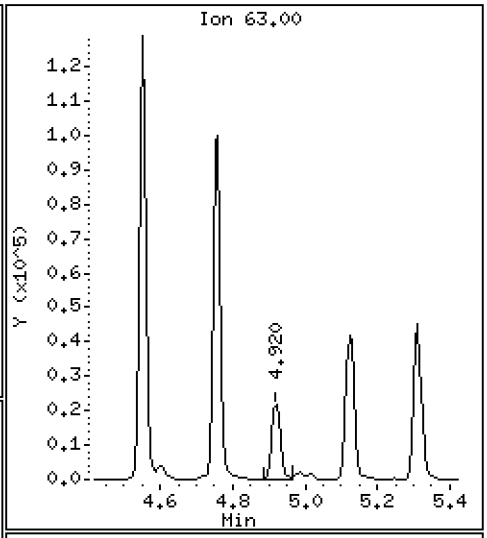
Sample Info: 1801;;1;2;4;;;

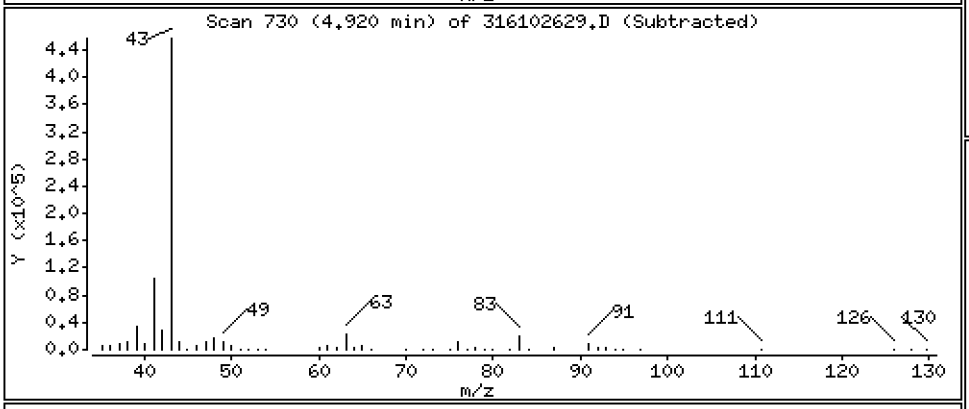
Purge Volume: 5.0 Operator: DD

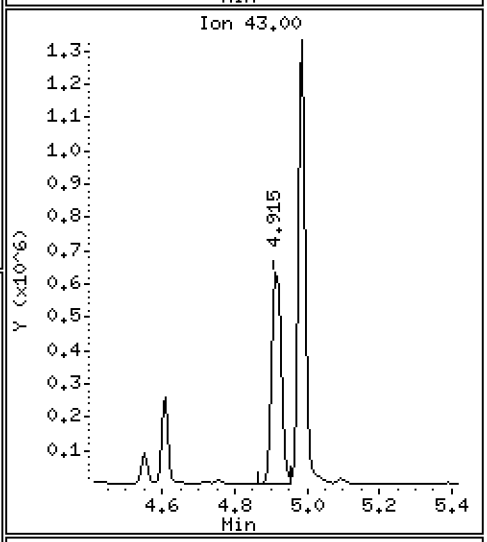
Column phase: DB-VRX Column diameter: 0.25

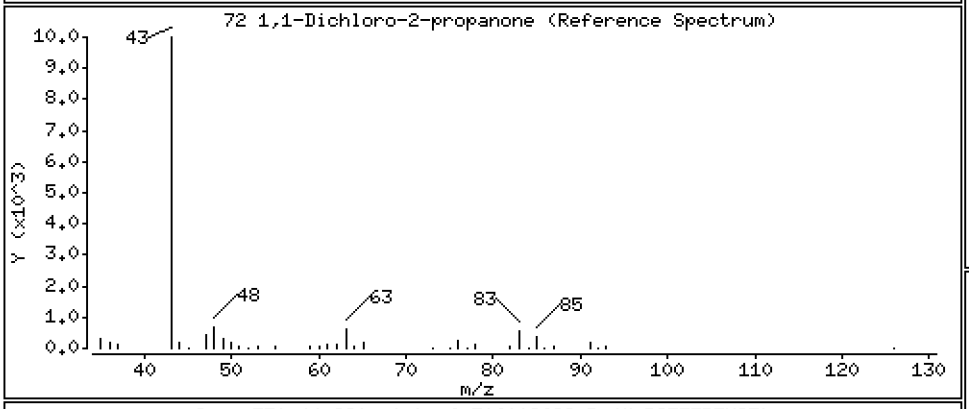
72 1,1-Dichloro-2-propanone Concentration: 248.188 ug/L

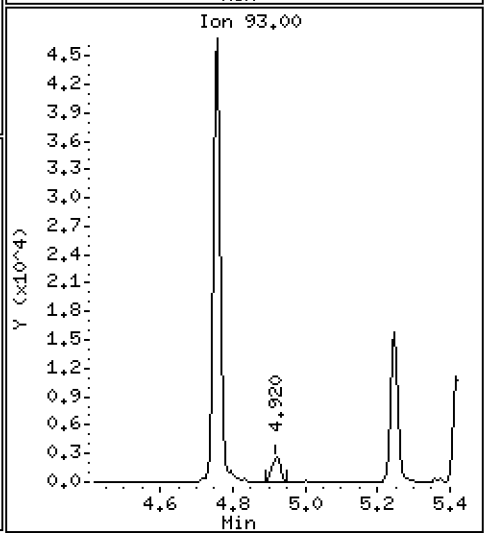


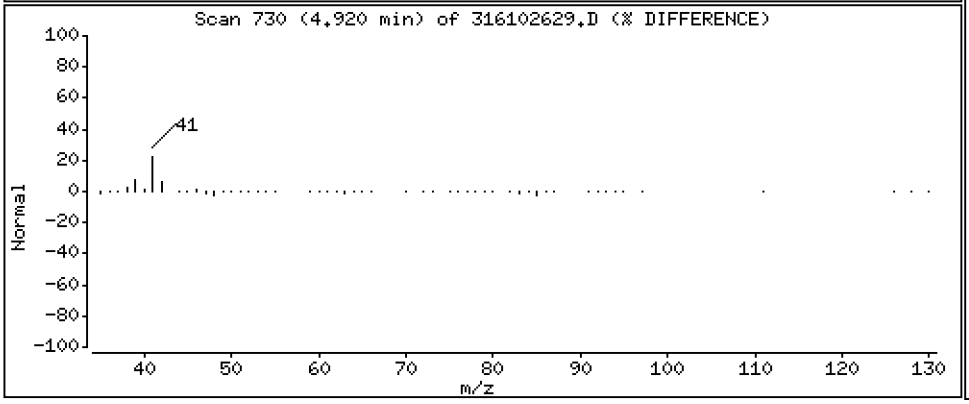












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 81

Date : 26-OCT-2016 19:41

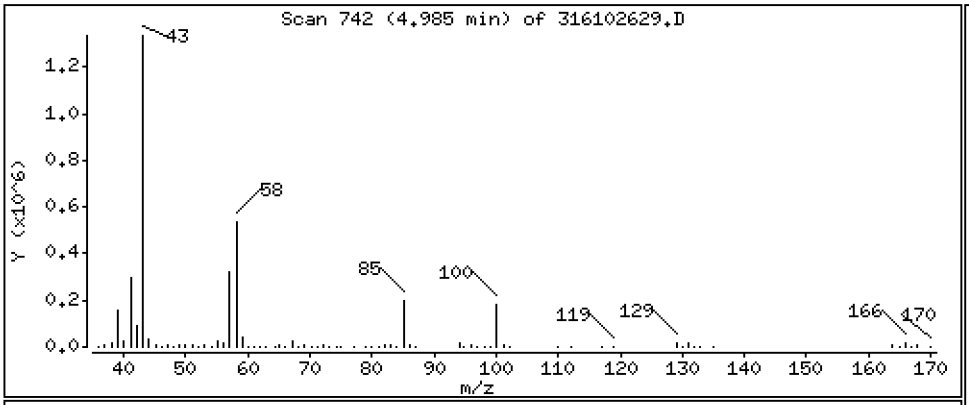
Client ID: Instrument: ms03.i

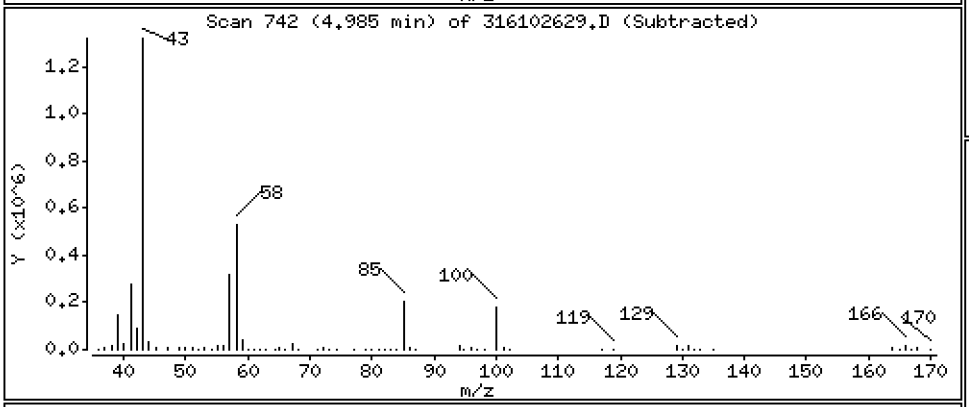
Sample Info: 1801;;1;2;4;;;

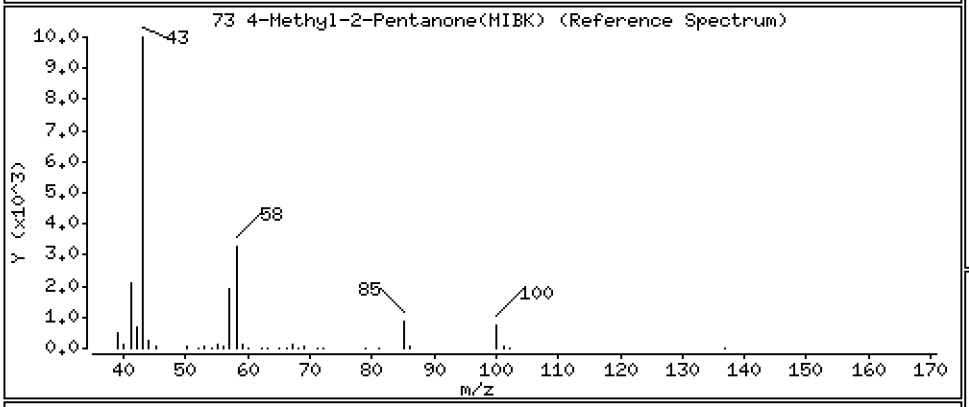
Purge Volume: 5.0 Operator: DD

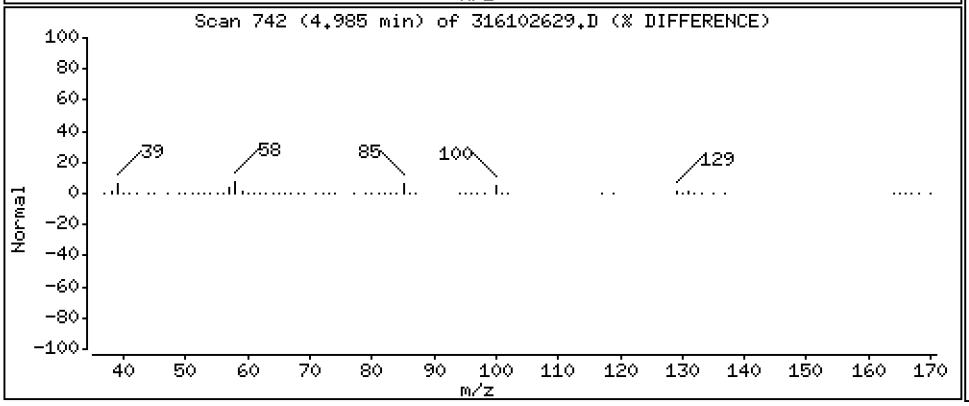
Column phase: DB-VRX Column diameter: 0.25

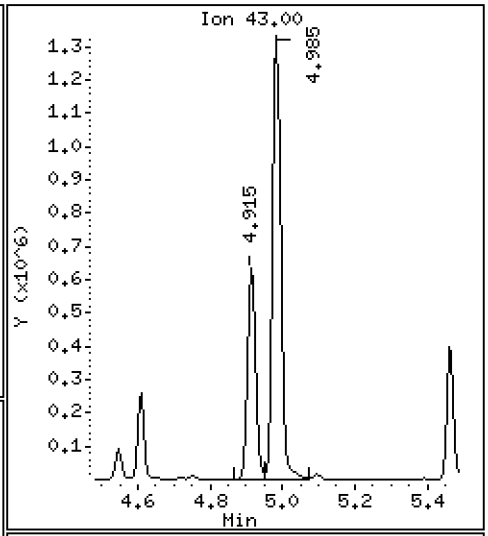
73 4-Methyl-2-Pentanone(MIBK) Concentration: 283.448 ug/L

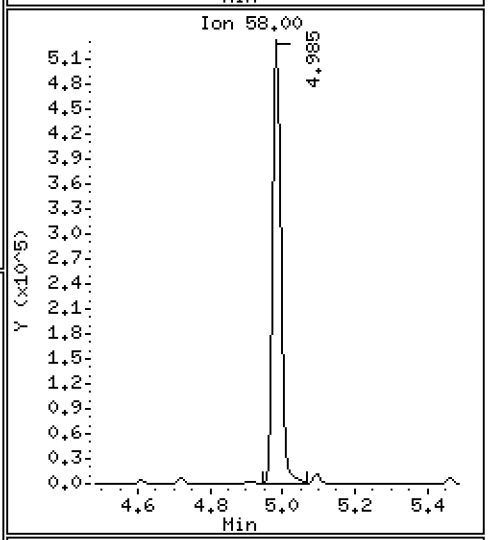


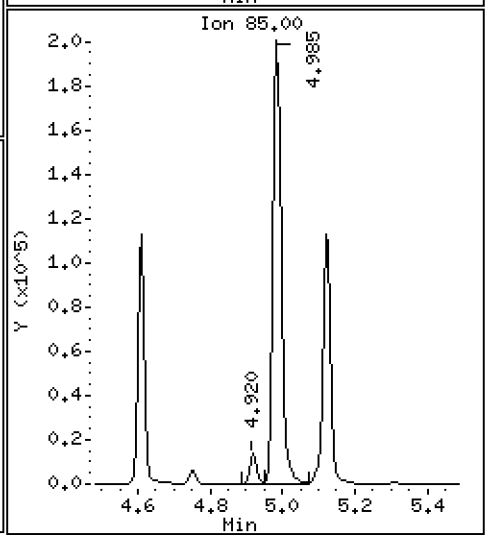












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 82

Date : 26-OCT-2016 19:41

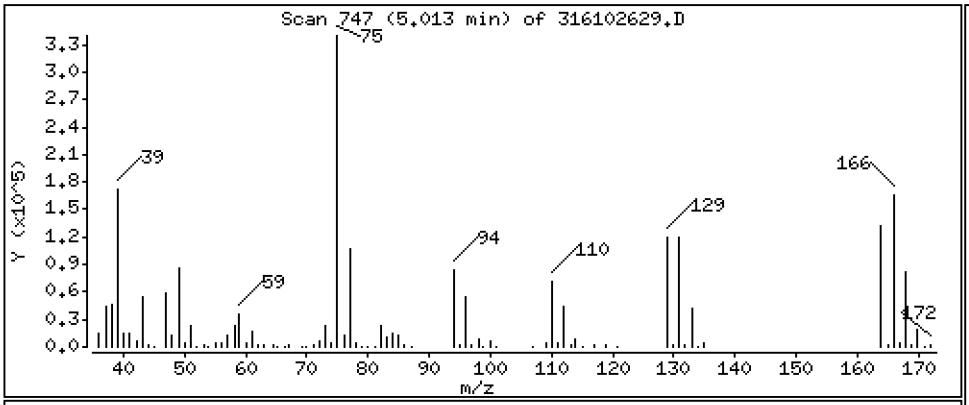
Client ID: Instrument: ms03.i

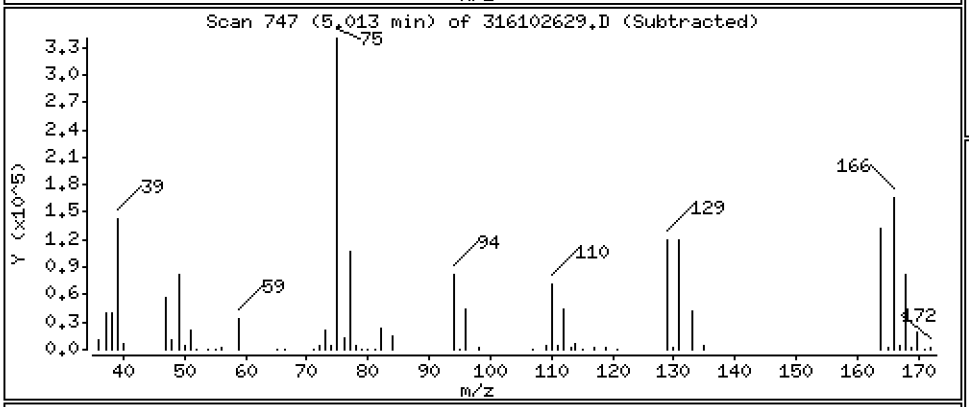
Sample Info: 1801;;1;2;4;;;

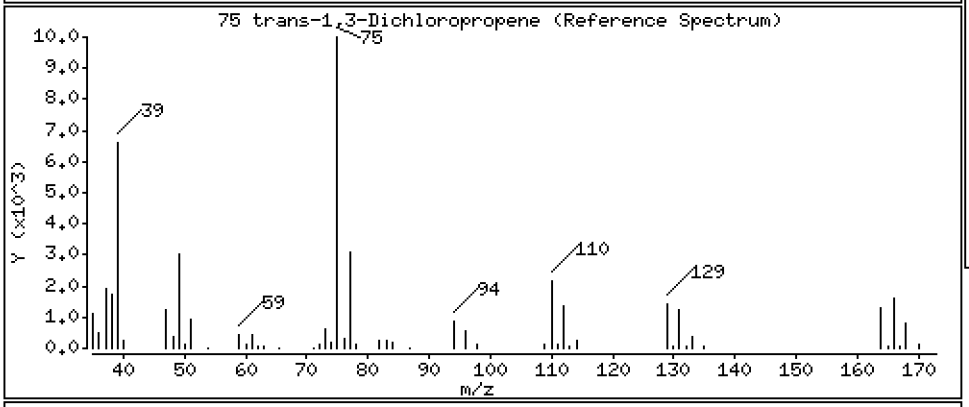
Purge Volume: 5.0 Operator: DD

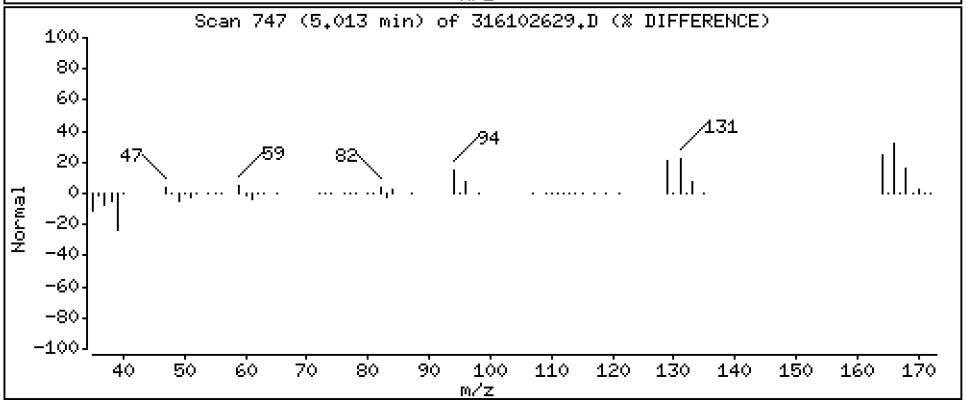
Column phase: DB-VRX Column diameter: 0.25

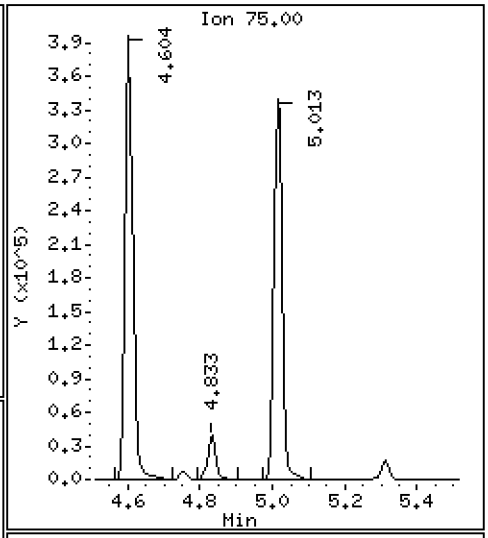
75 trans-1,3-Dichloropropene Concentration: 50.2922 ug/L

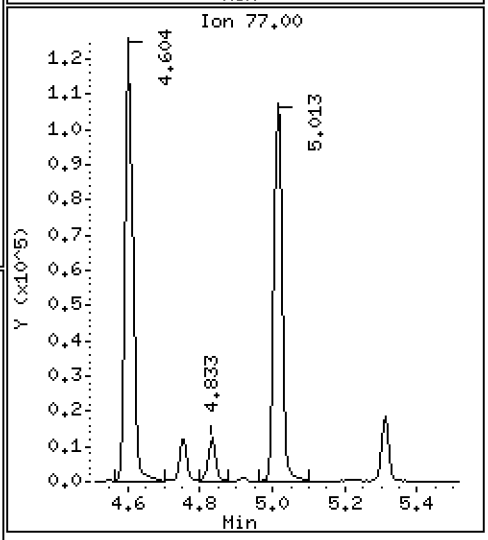












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 83

Date : 26-OCT-2016 19:41

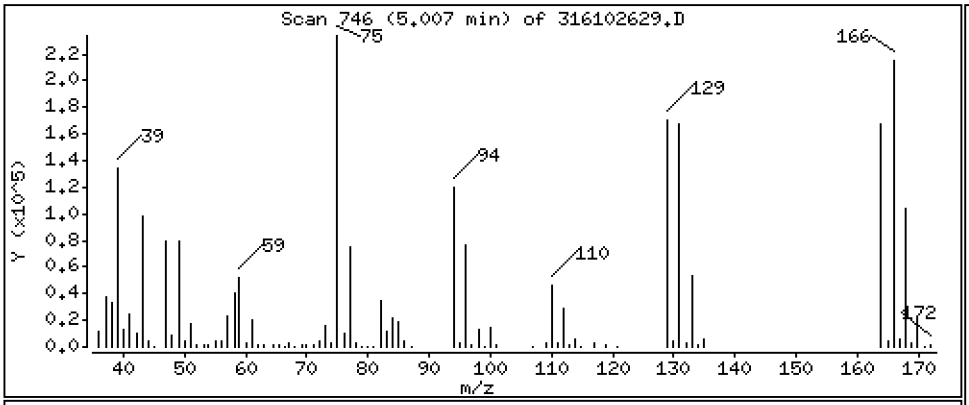
Client ID: Instrument: ms03.i

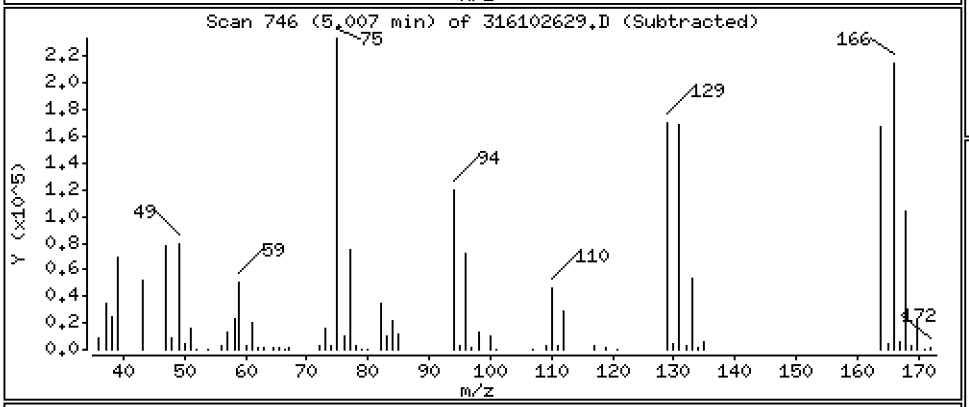
Sample Info: 1801;;1;2;4;;;

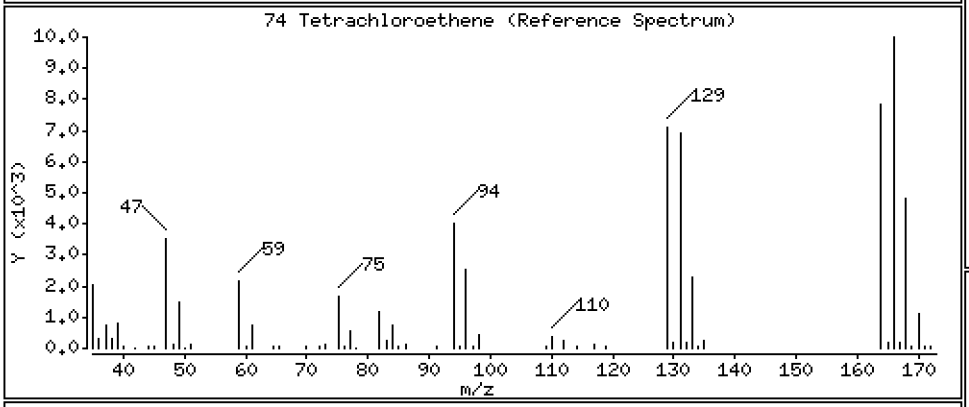
Purge Volume: 5.0 Operator: DD

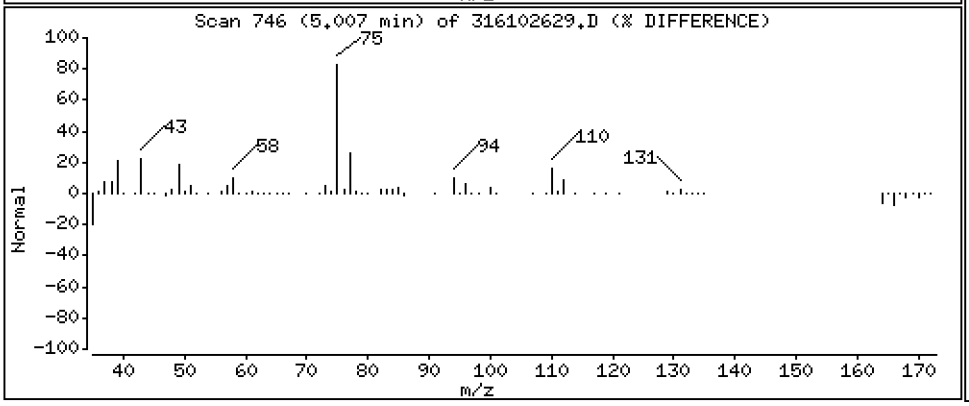
Column phase: DB-VRX Column diameter: 0.25

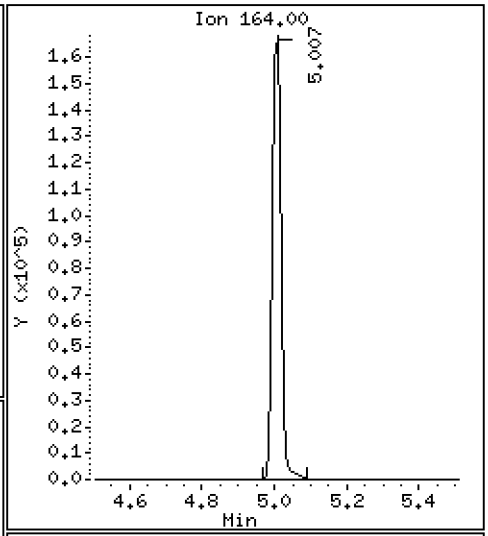
74 Tetrachloroethene Concentration: 52.3507 ug/L

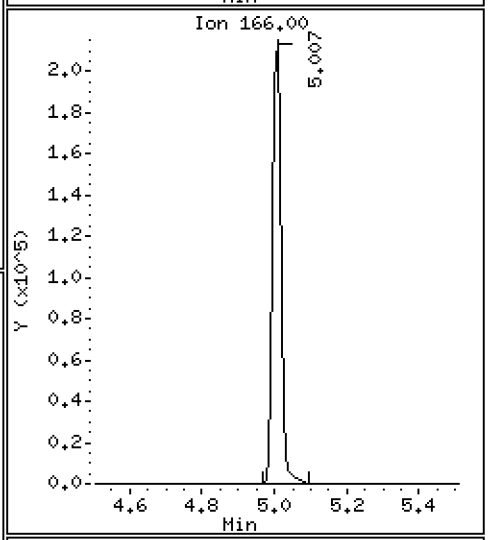


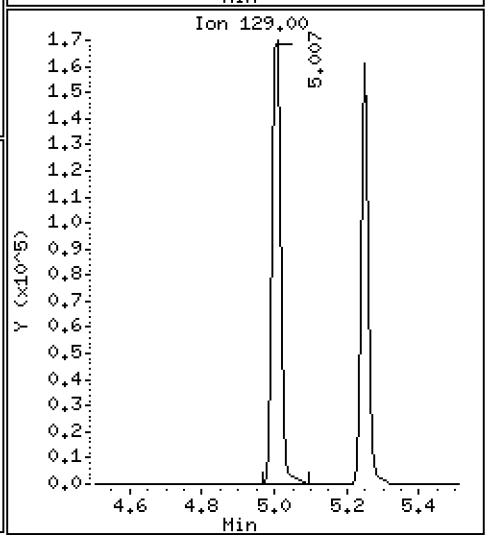












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 84

Date : 26-OCT-2016 19:41

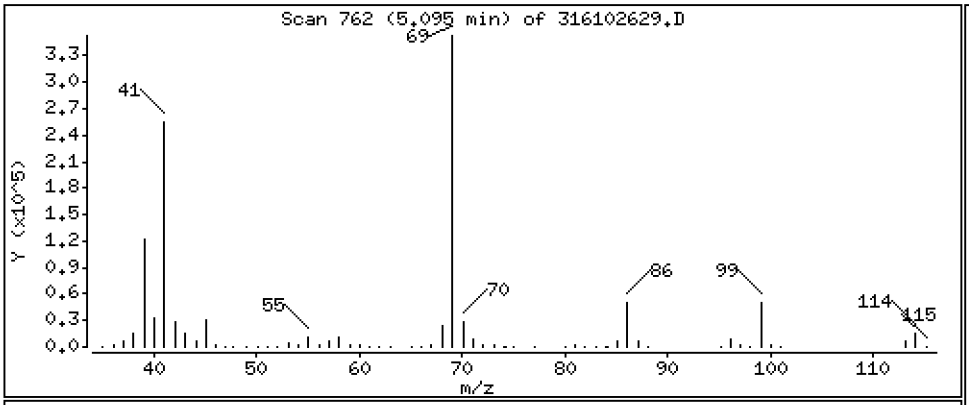
Client ID: Instrument: ms03.i

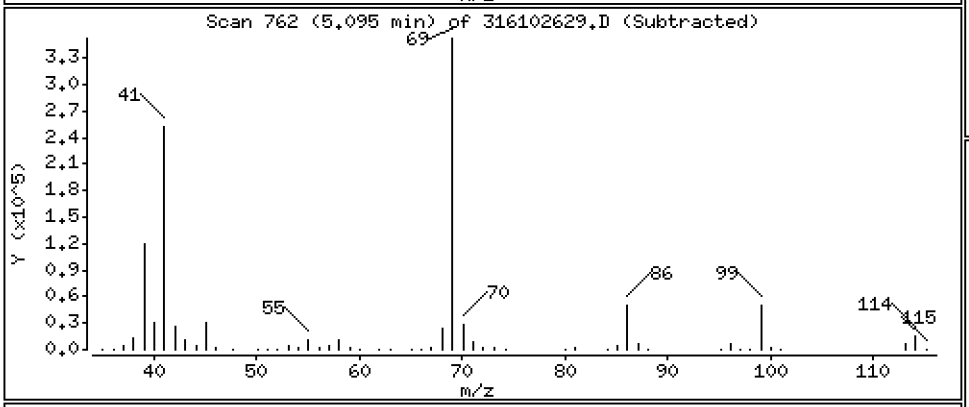
Sample Info: 1801;;1;2;4;;;

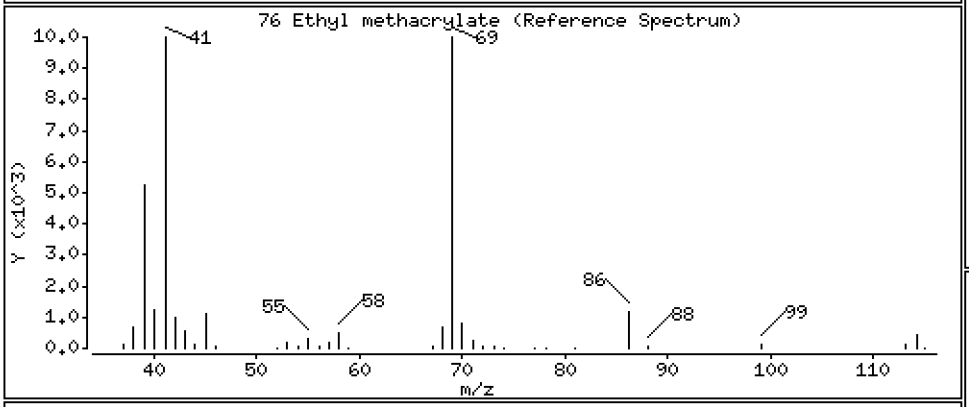
Purge Volume: 5.0 Operator: DD

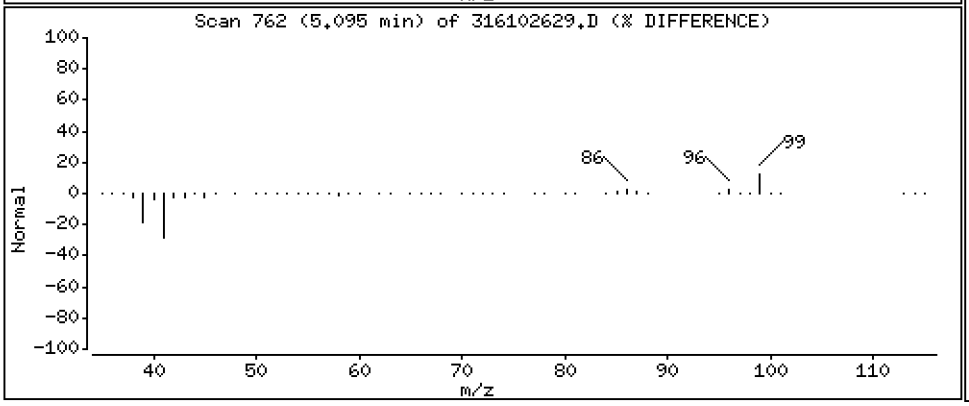
Column phase: DB-VRX Column diameter: 0.25

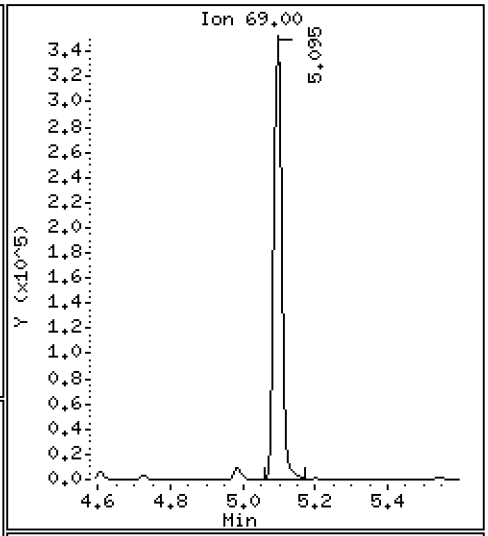
76 Ethyl methacrylate Concentration: 53.9320 ug/L

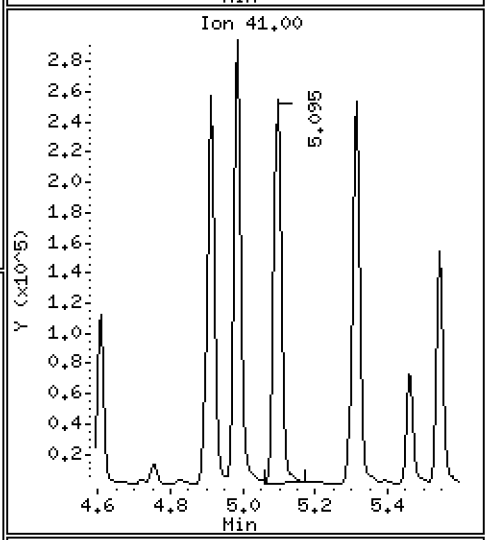


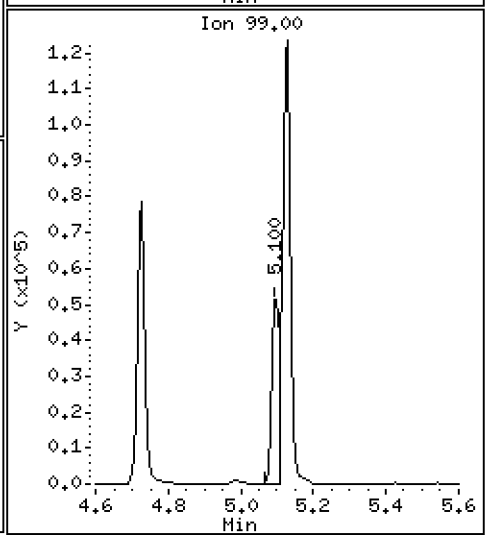












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 85

Date : 26-OCT-2016 19:41

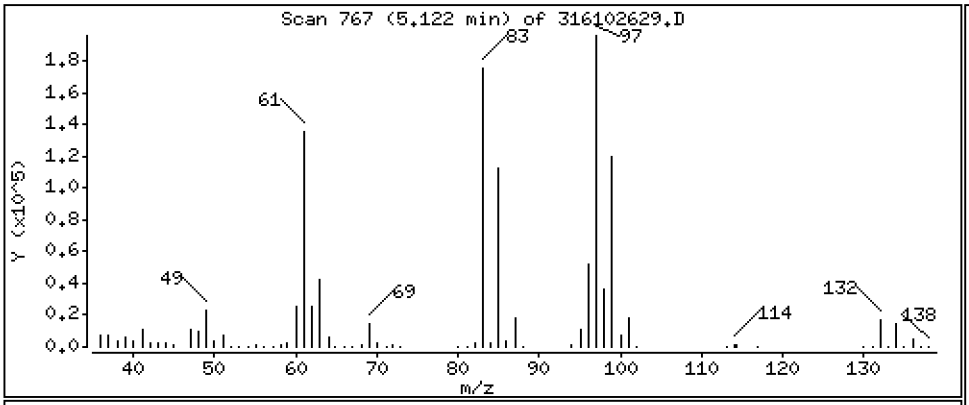
Client ID: Instrument: ms03.i

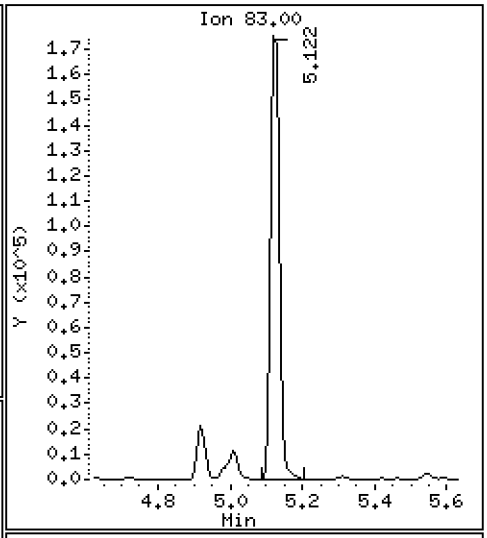
Sample Info: 1801;;1;2;4;;;

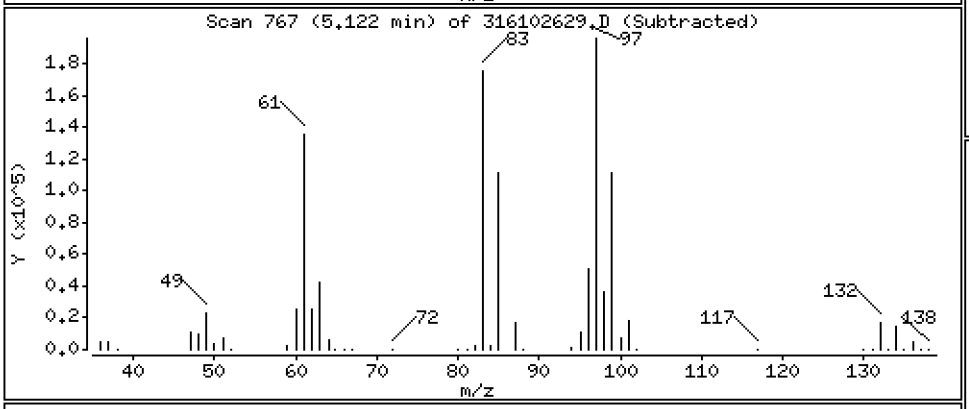
Purge Volume: 5.0 Operator: DD

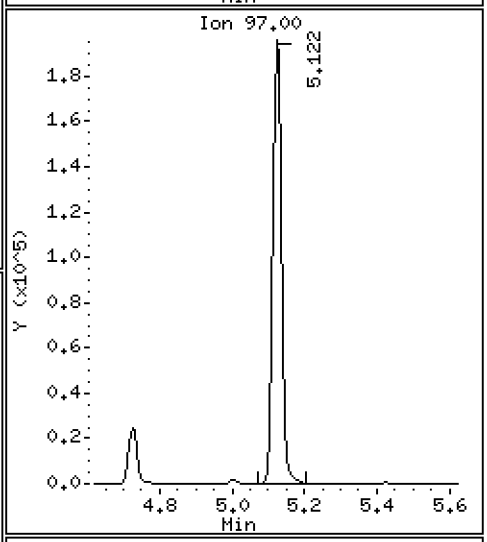
Column phase: DB-VRX Column diameter: 0.25

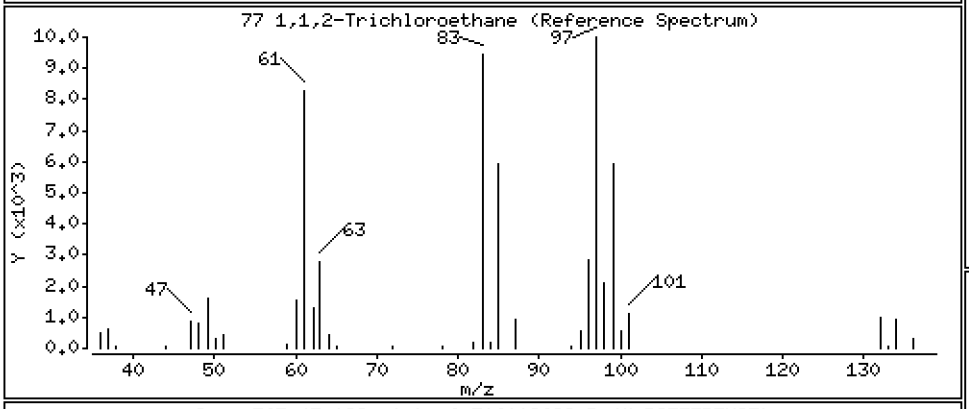
77 1,1,2-Trichloroethane Concentration: 46.8204 ug/L

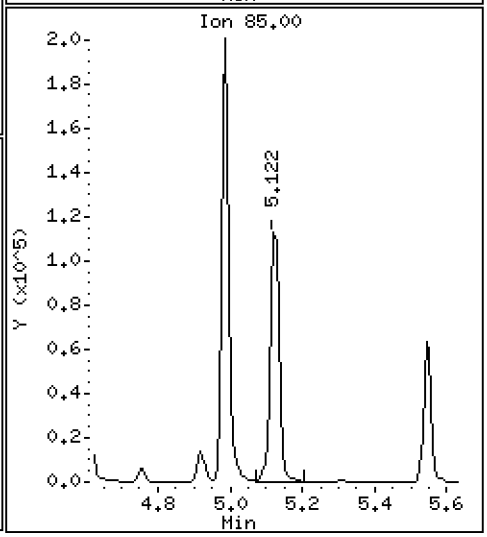


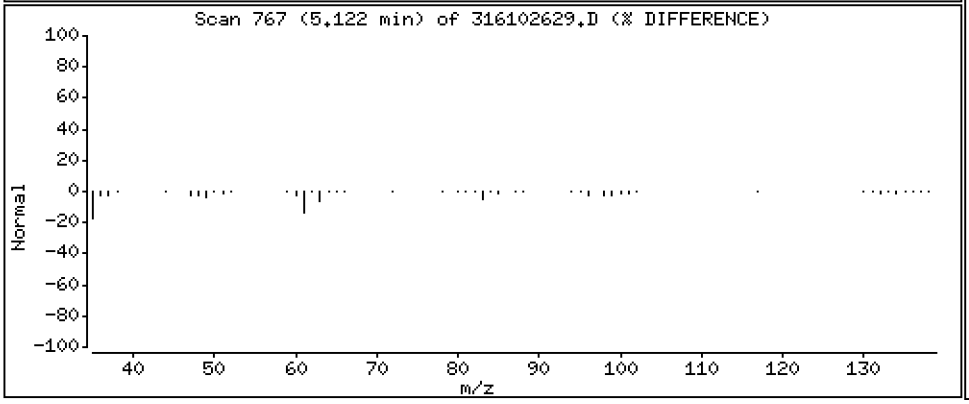












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 86

Date : 26-OCT-2016 19:41

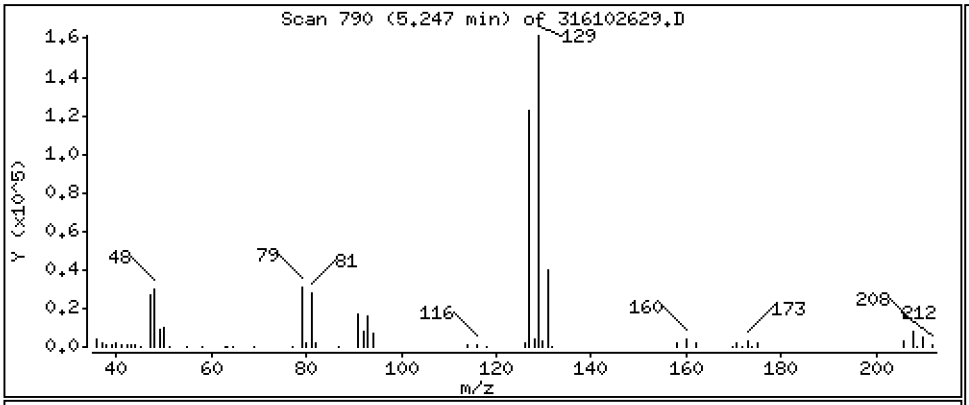
Client ID: Instrument: ms03.i

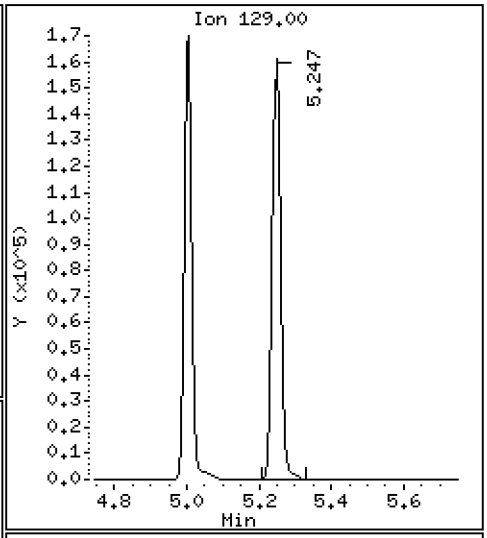
Sample Info: 1801;;1;2;4;;;

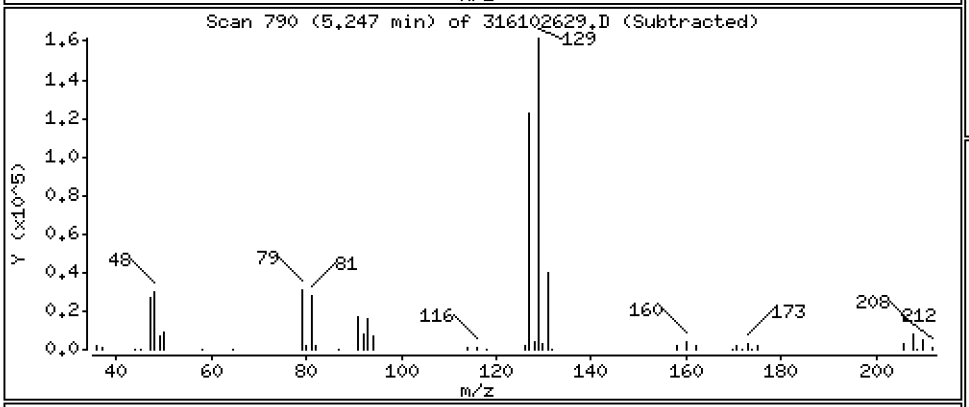
Purge Volume: 5.0 Operator: DD

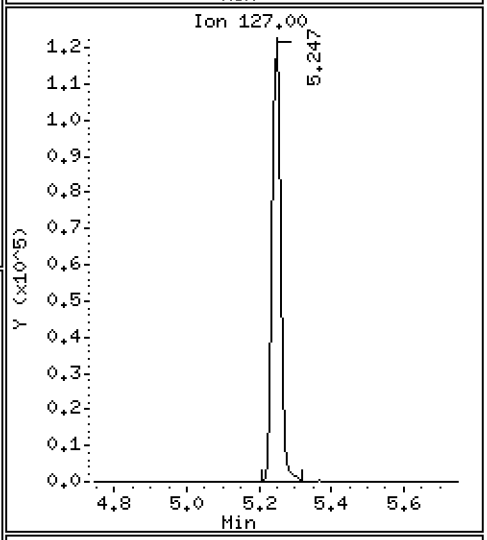
Column phase: DB-VRX Column diameter: 0.25

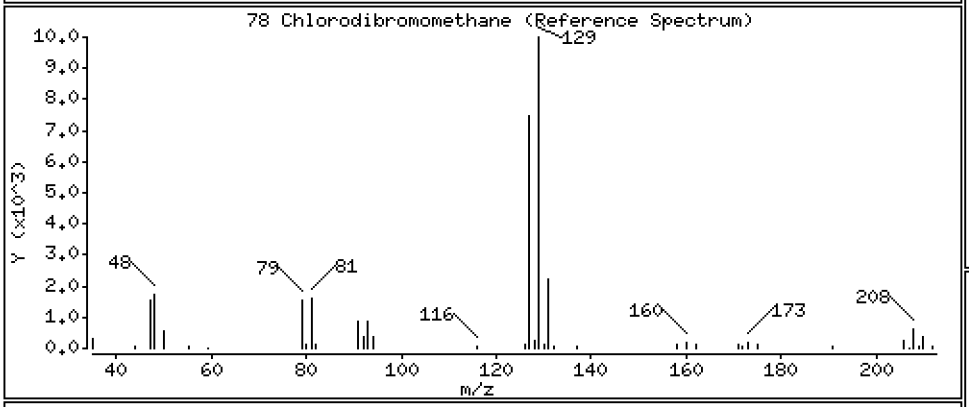
78 Chlorodibromomethane Concentration: 46.0057 ug/L

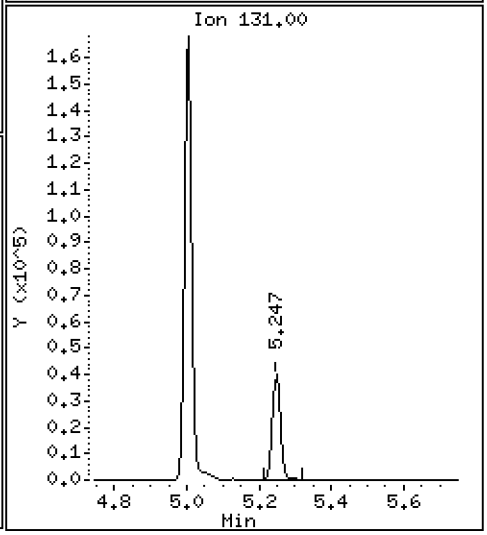


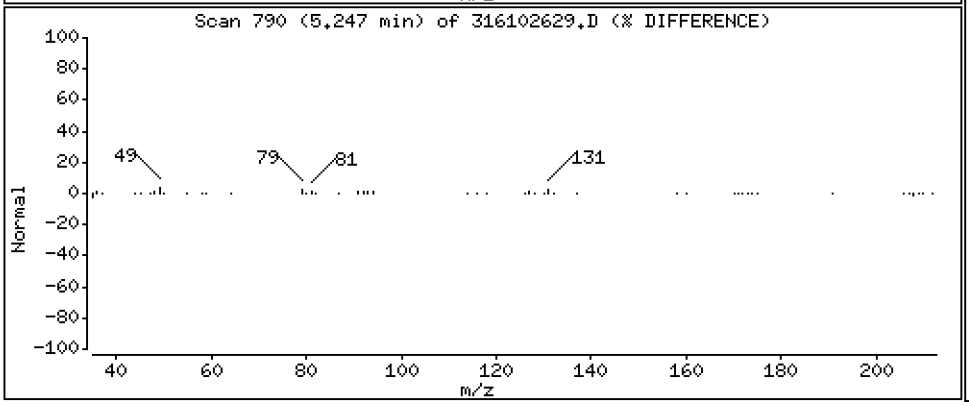












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 87

Date : 26-OCT-2016 19:41

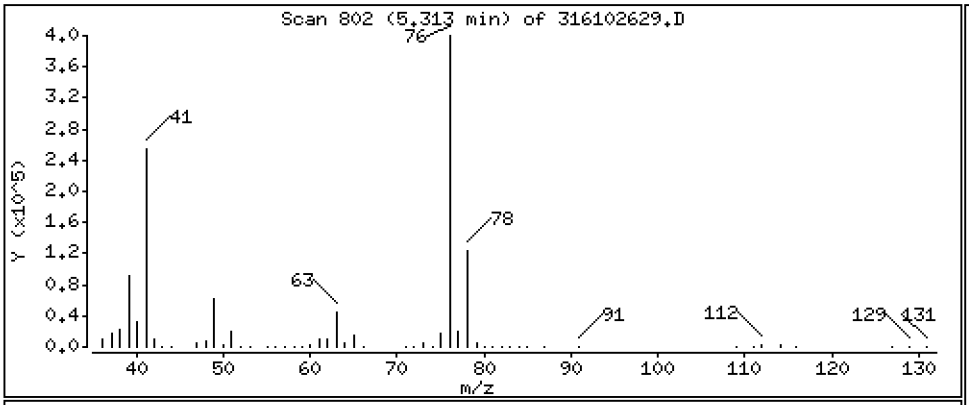
Client ID: Instrument: ms03.i

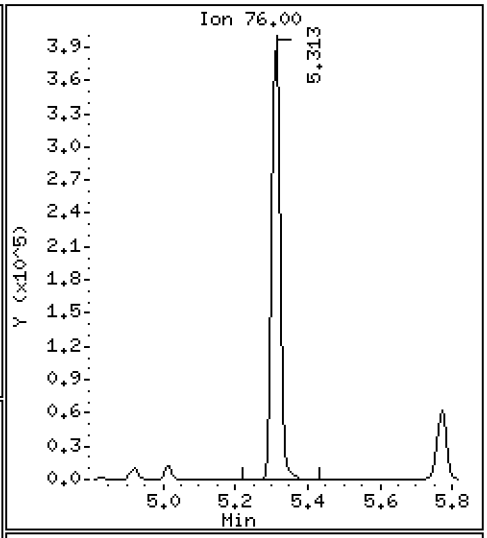
Sample Info: 1801;;1;2;4;;;

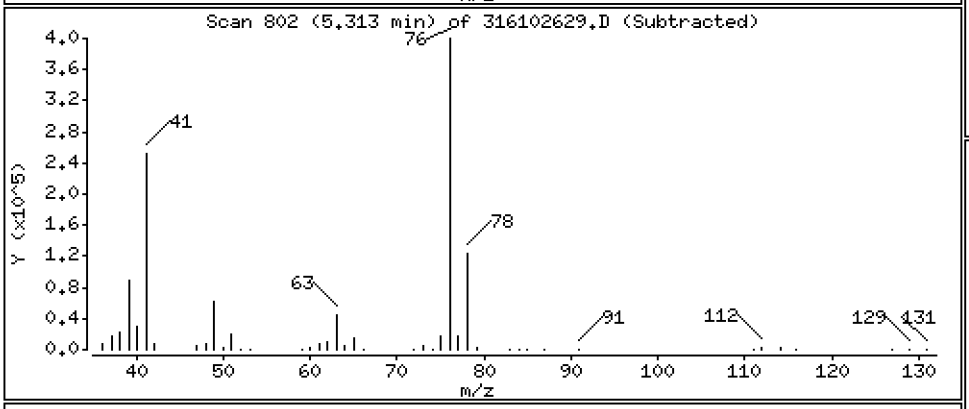
Purge Volume: 5.0 Operator: DD

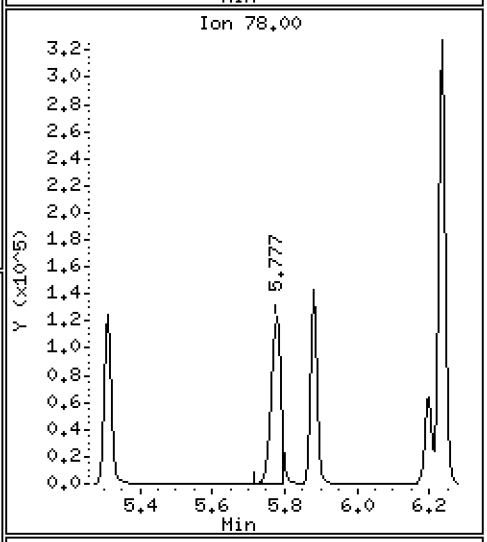
Column phase: DB-VRX Column diameter: 0.25

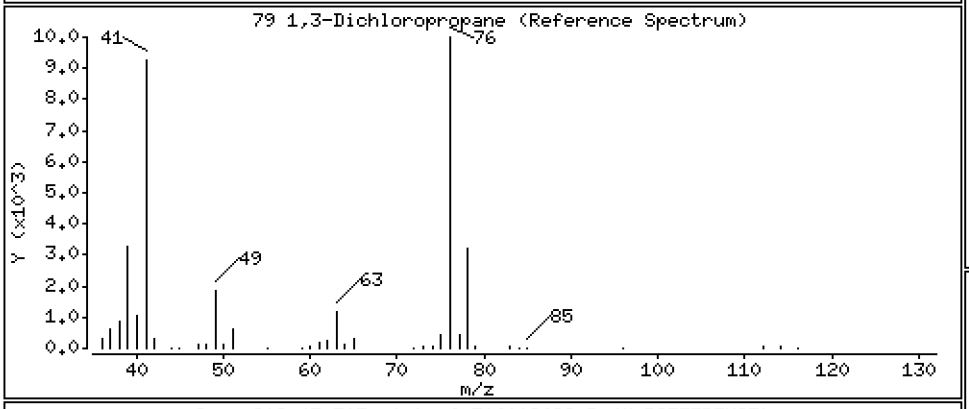
79 1,3-Dichloropropane Concentration: 46.5498 ug/L

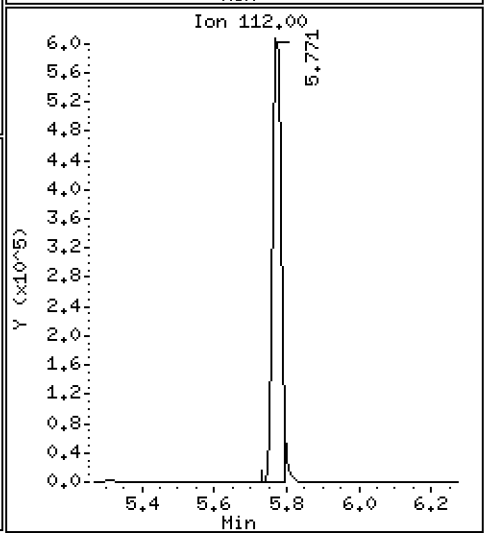


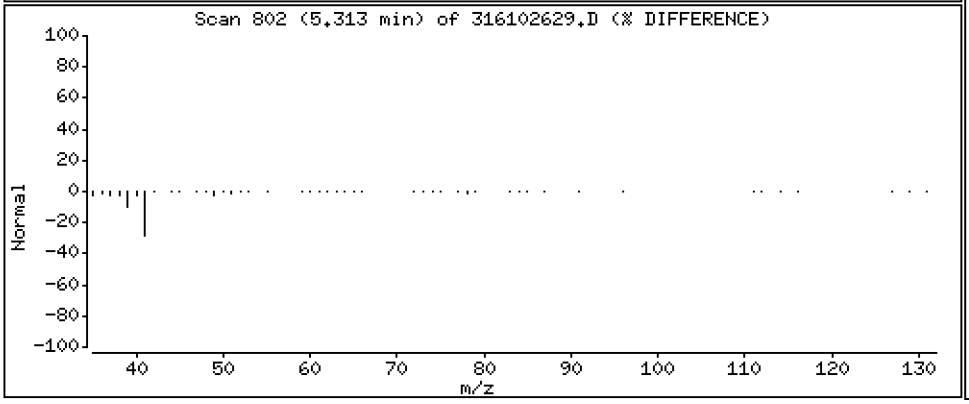












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 88

Date : 26-OCT-2016 19:41

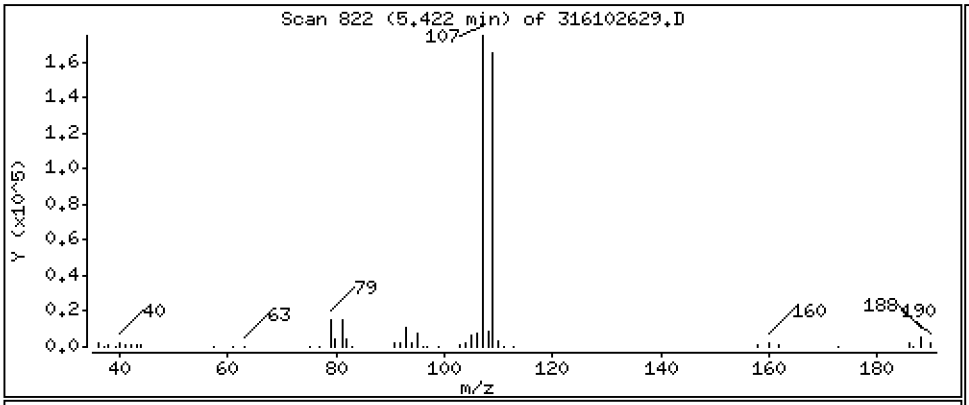
Client ID: Instrument: ms03.i

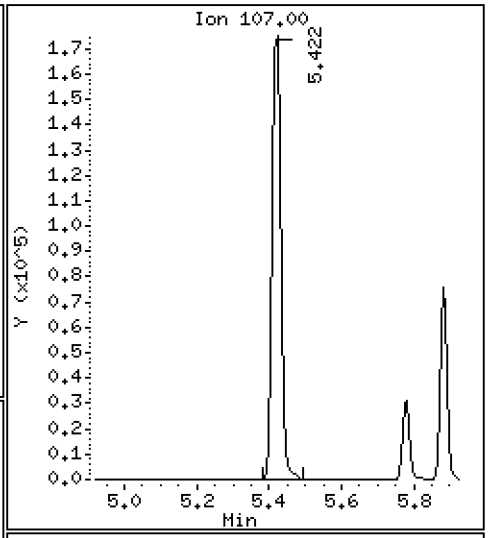
Sample Info: 1801;;1;2;4;;;

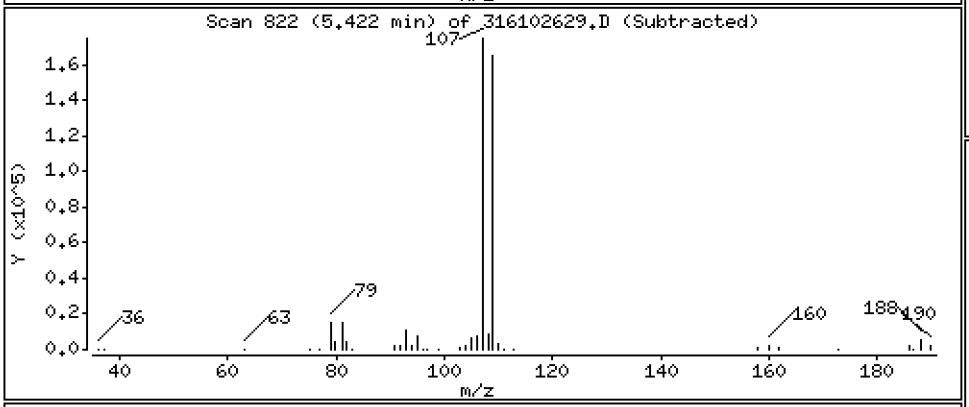
Purge Volume: 5.0 Operator: DD

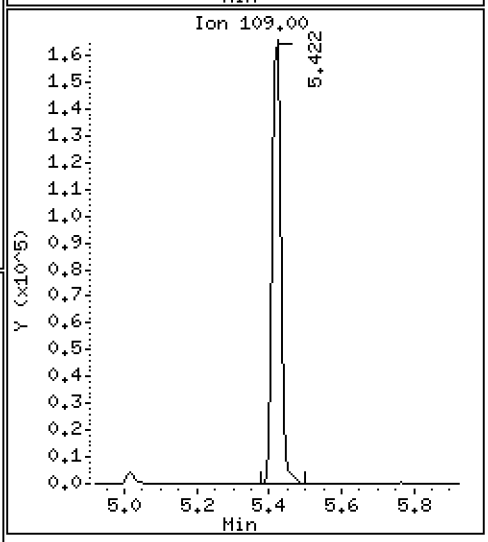
Column phase: DB-VRX Column diameter: 0.25

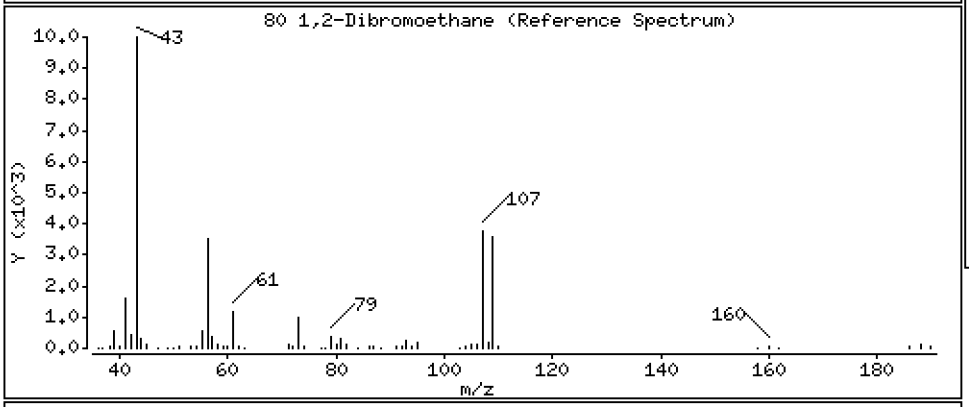
80 1,2-Dibromoethane Concentration: 46.7958 ug/L

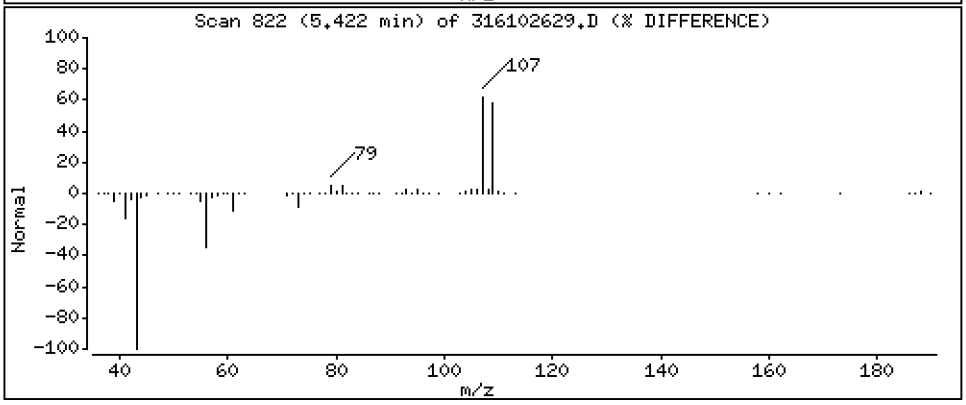












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 89

Date : 26-OCT-2016 19:41

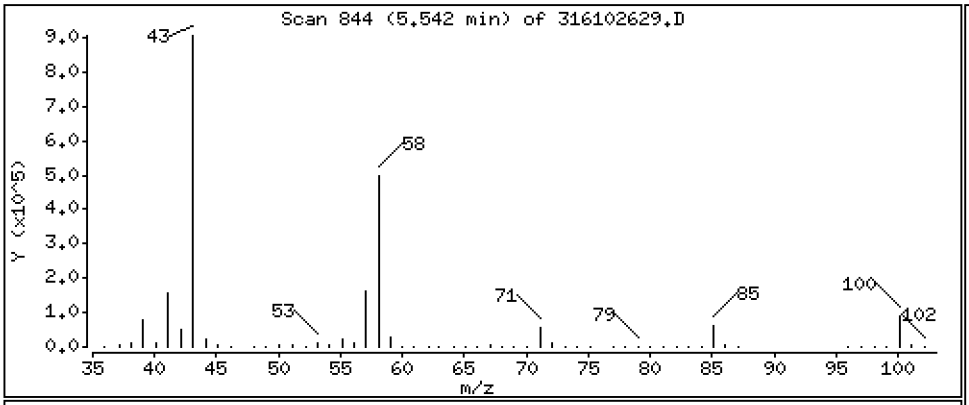
Client ID: Instrument: ms03.i

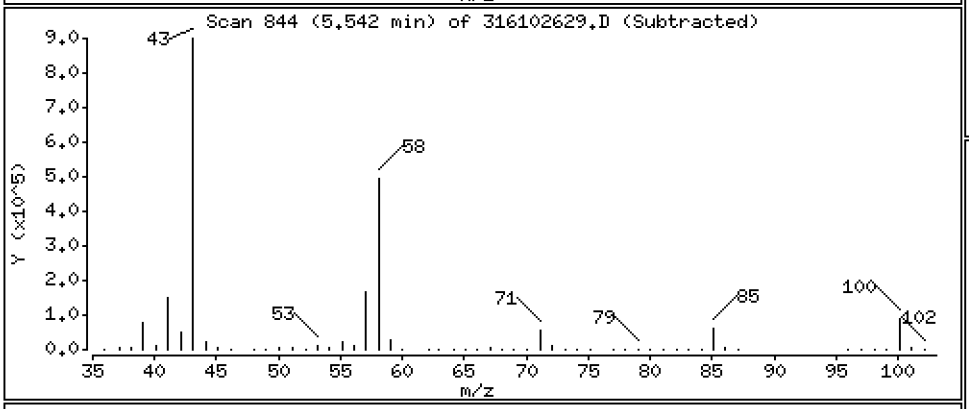
Sample Info: 1801;;1;2;4;;;

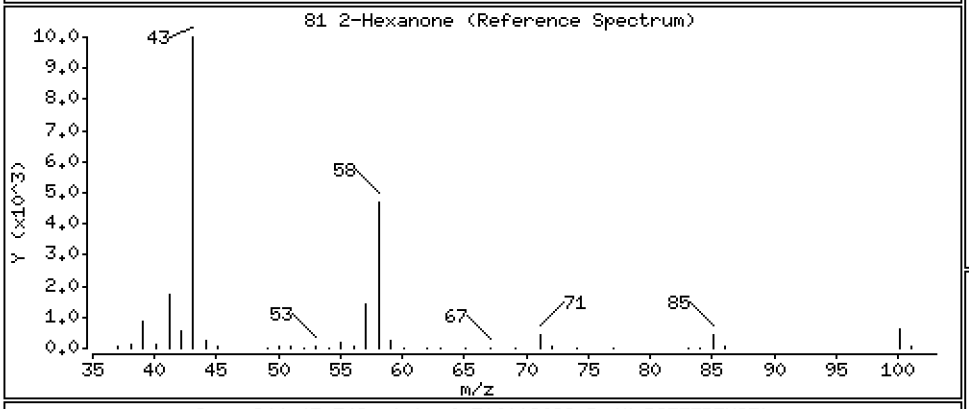
Purge Volume: 5.0 Operator: DD

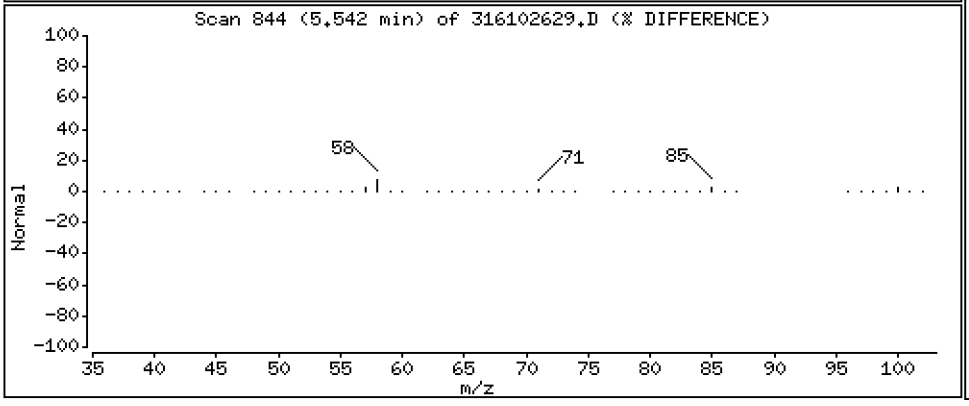
Column phase: DB-VRX Column diameter: 0.25

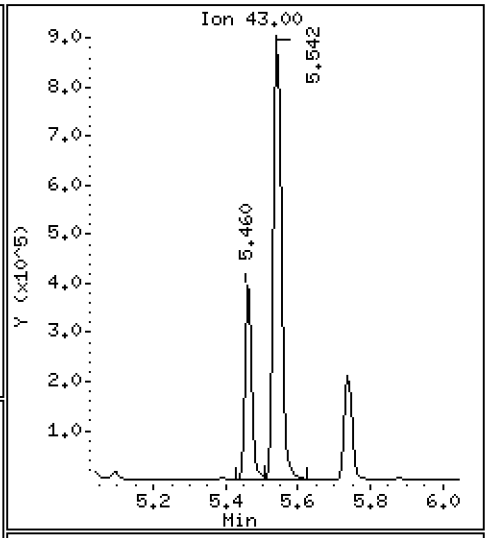
81 2-Hexanone Concentration: 288.619 ug/L

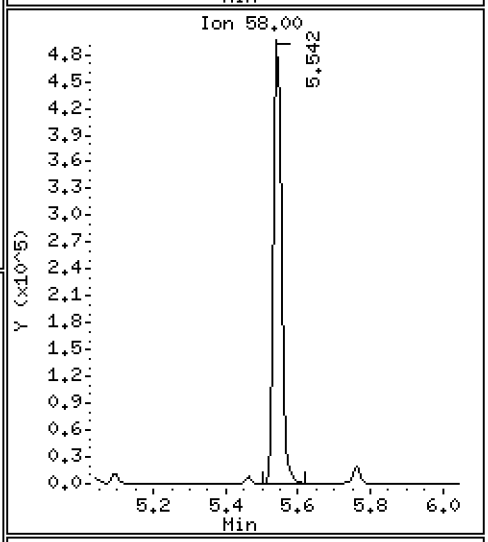


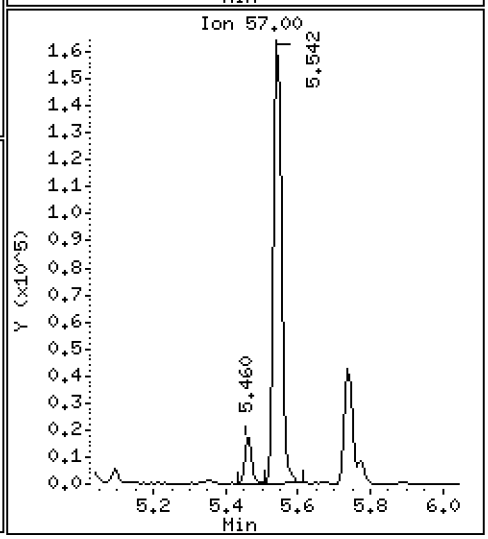












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 90

Date : 26-OCT-2016 19:41

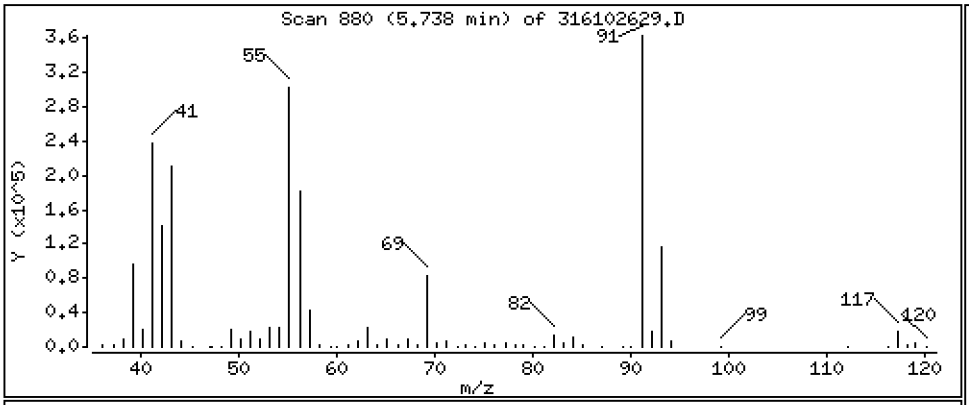
Client ID: Instrument: ms03.i

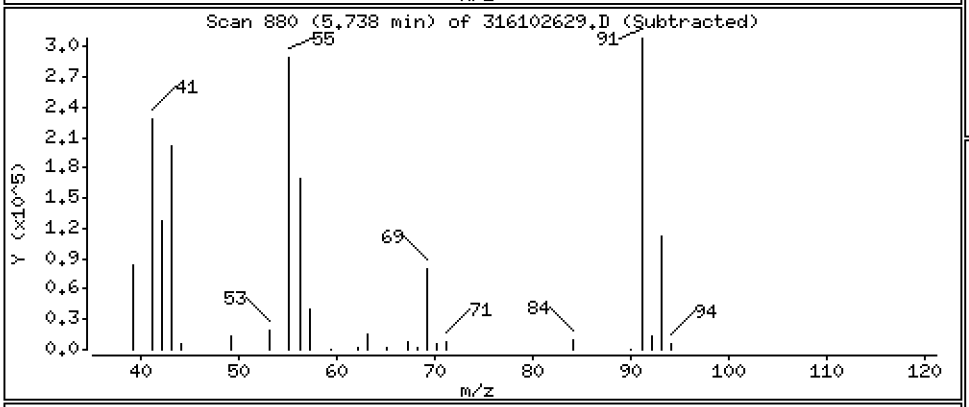
Sample Info: 1801;;1;2;4;;;

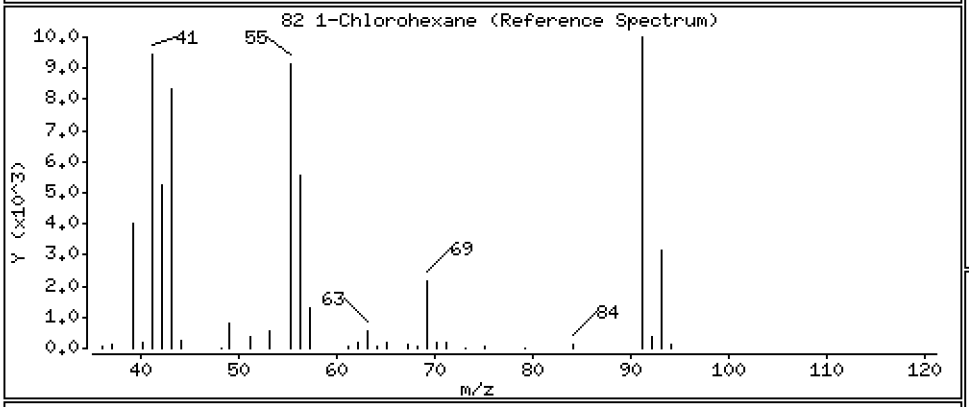
Purge Volume: 5.0 Operator: DD

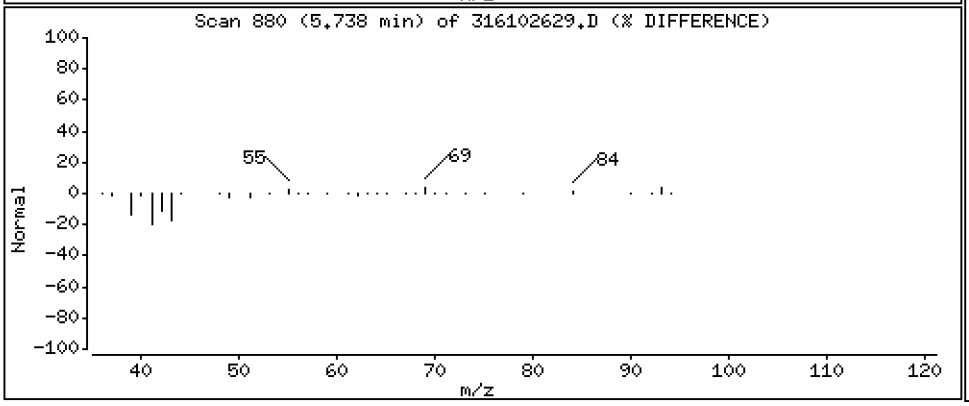
Column phase: DB-VRX Column diameter: 0.25

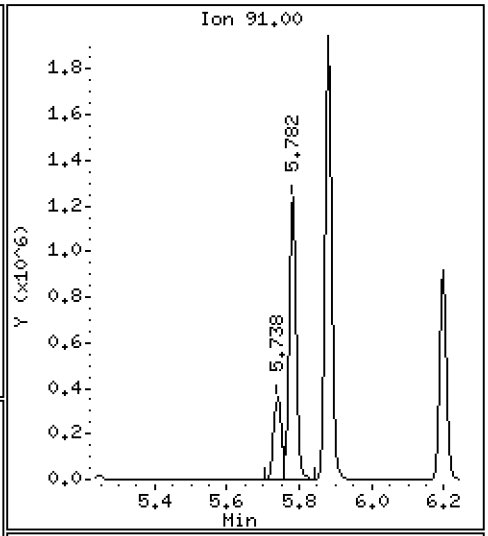
82 1-Chlorohexane Concentration: 47.6379 ug/L

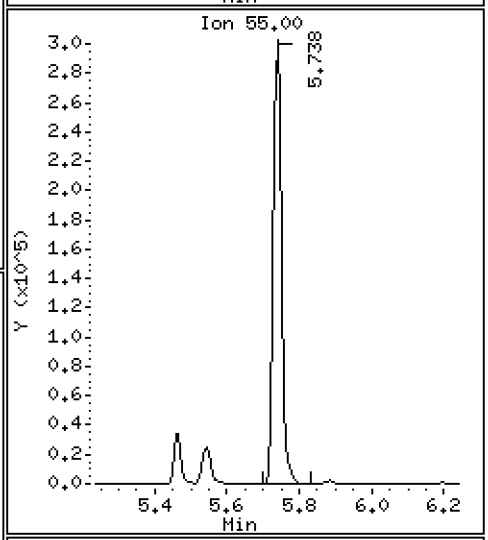


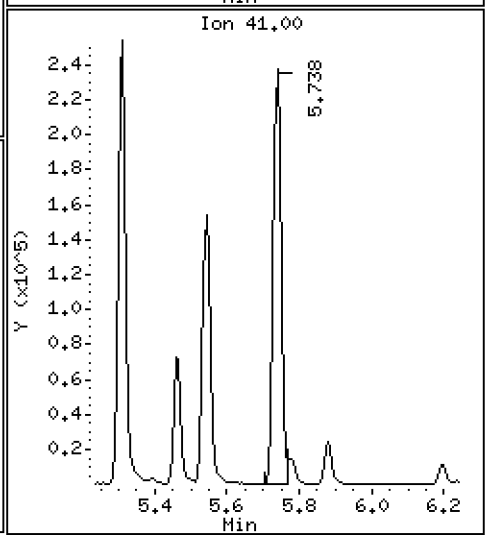












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 91

Date : 26-OCT-2016 19:41

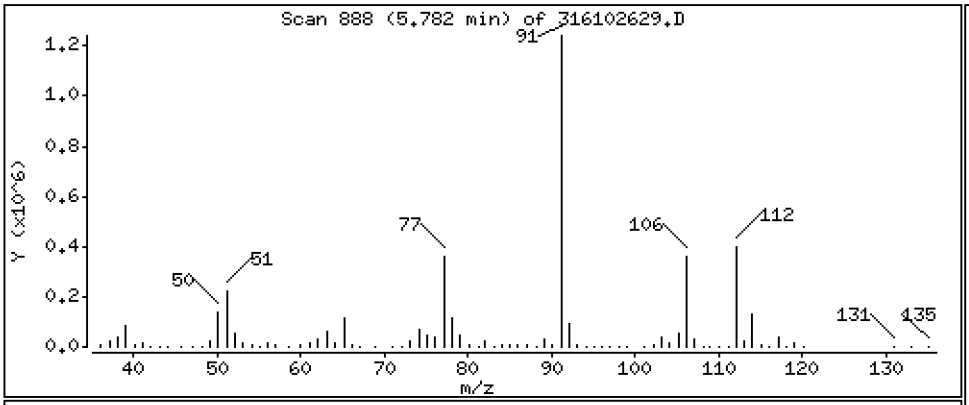
Client ID: Instrument: ms03.i

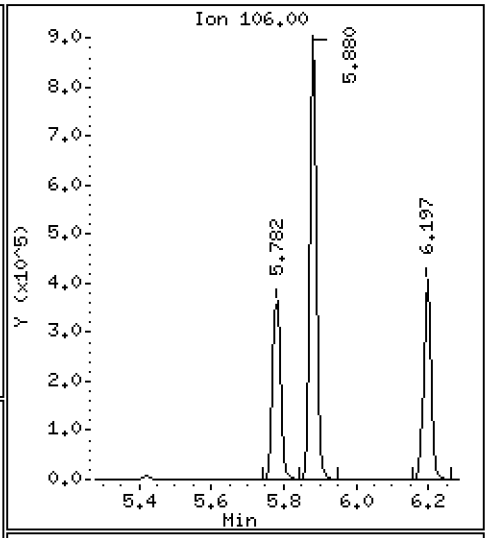
Sample Info: 1801;;1;2;4;;;

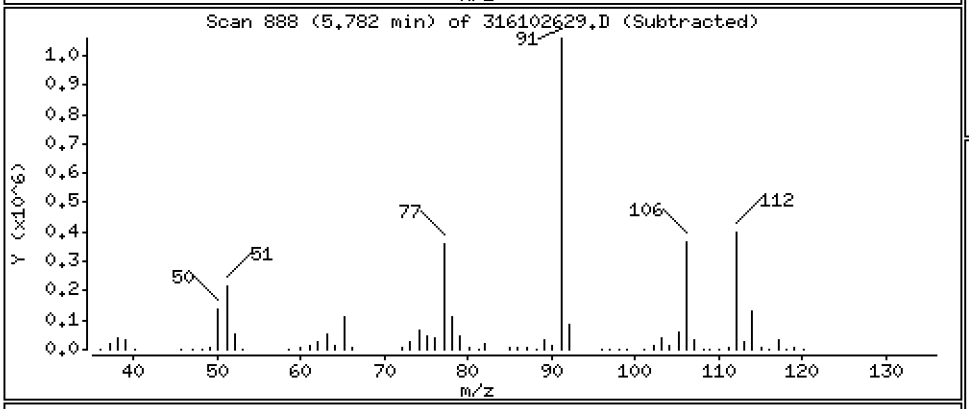
Purge Volume: 5.0 Operator: DD

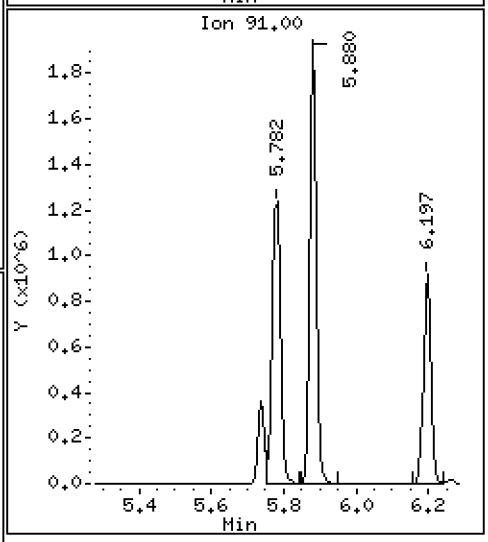
Column phase: DB-VRX Column diameter: 0.25

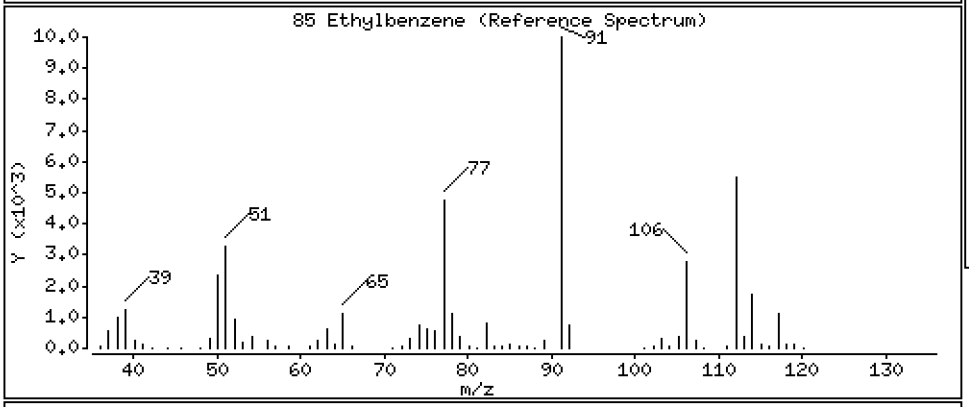
85 Ethylbenzene Concentration: 45.3035 ug/L

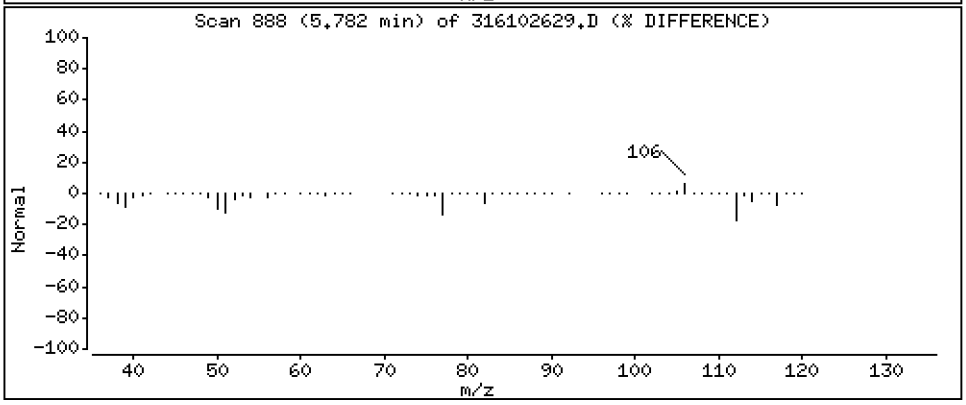












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 92

Date : 26-OCT-2016 19:41

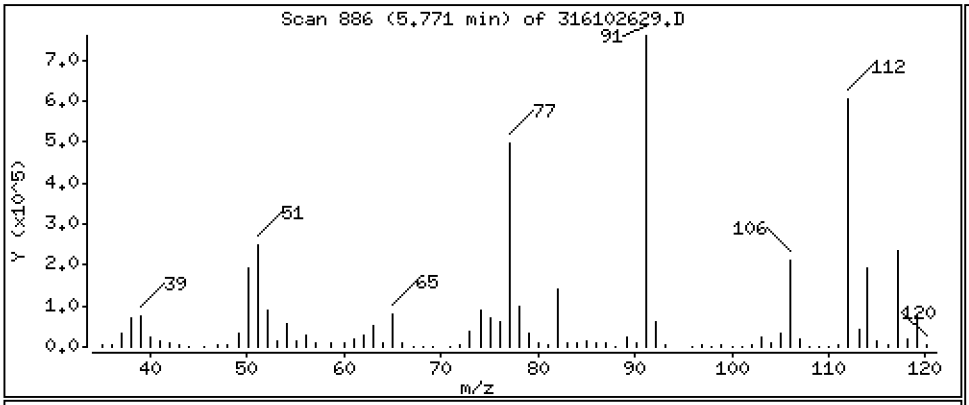
Client ID: Instrument: ms03.i

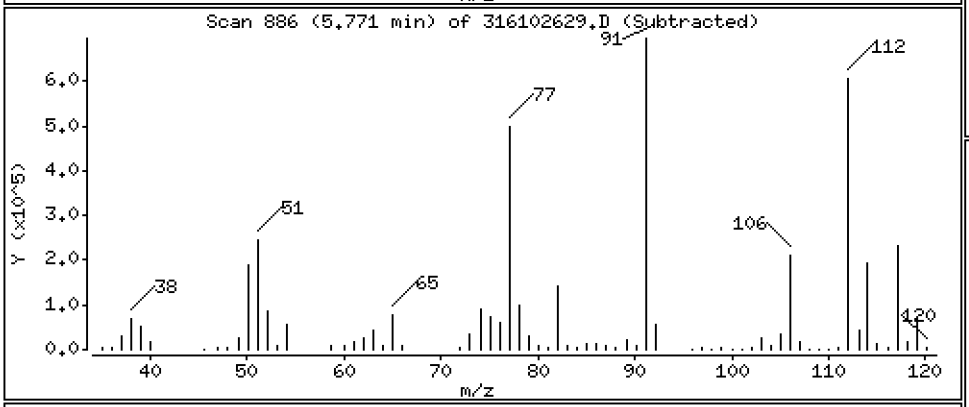
Sample Info: 1801;;1;2;4;;;

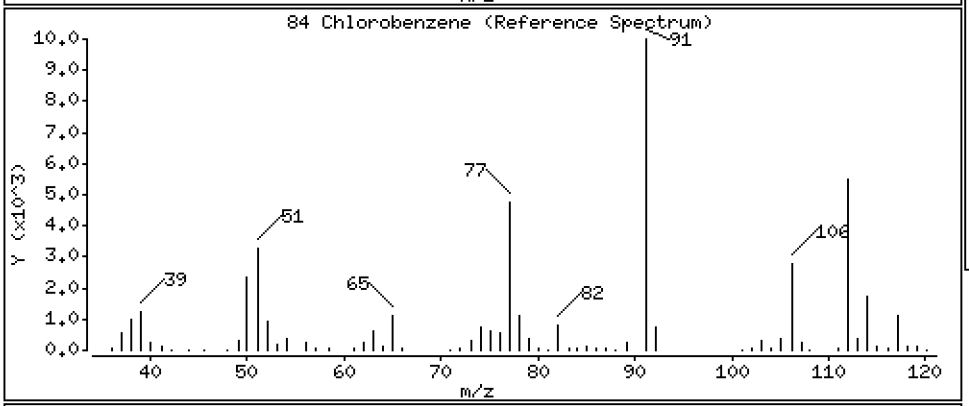
Purge Volume: 5.0 Operator: DD

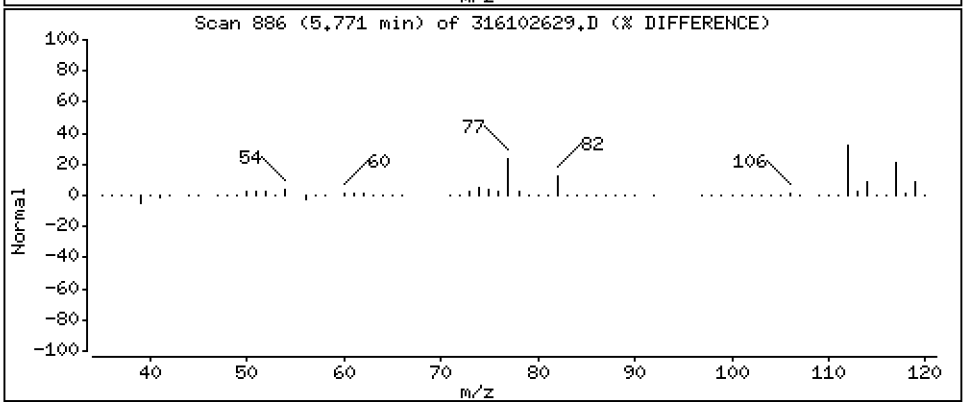
Column phase: DB-VRX Column diameter: 0.25

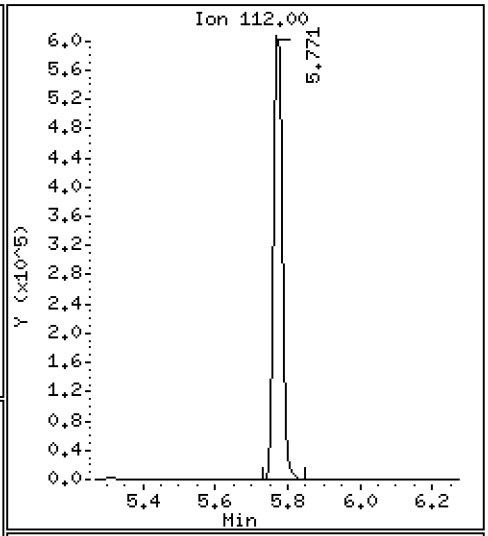
84 Chlorobenzene Concentration: 43.8541 ug/L

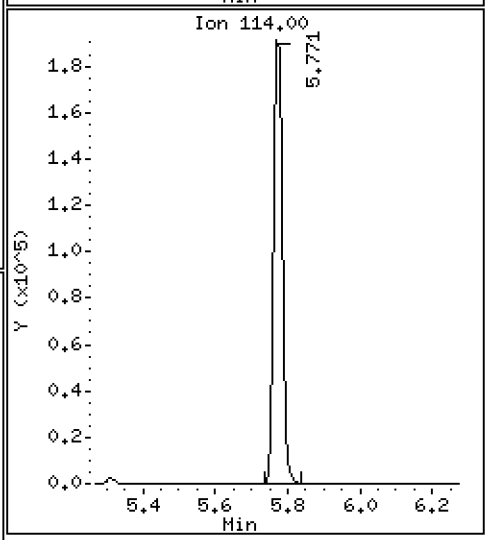












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 93

Date : 26-OCT-2016 19:41

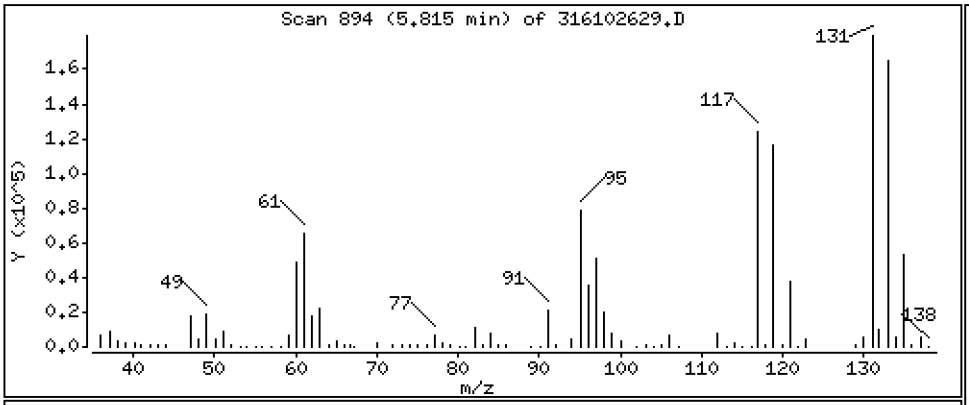
Client ID: Instrument: ms03.i

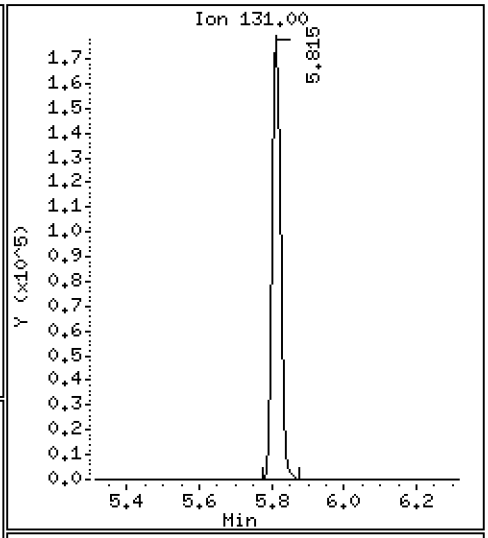
Sample Info: 1801;;1;2;4;;;

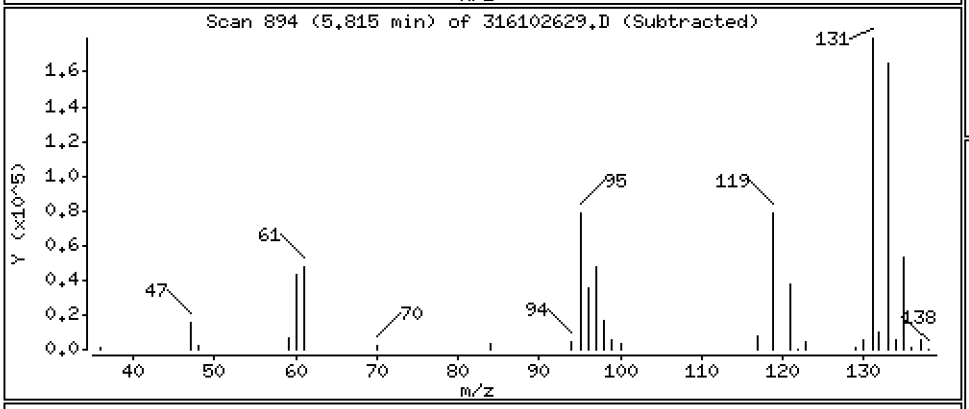
Purge Volume: 5.0 Operator: DD

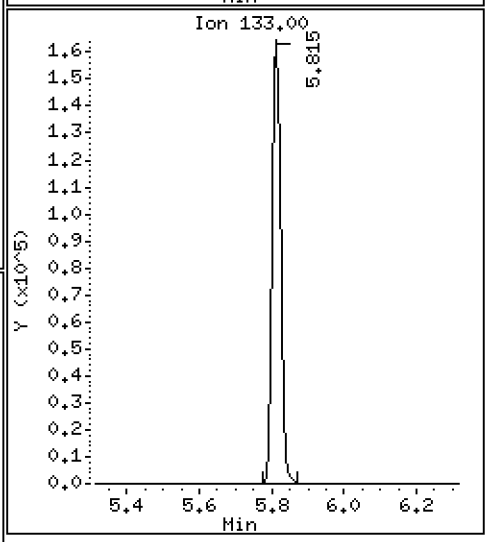
Column phase: DB-VRX Column diameter: 0.25

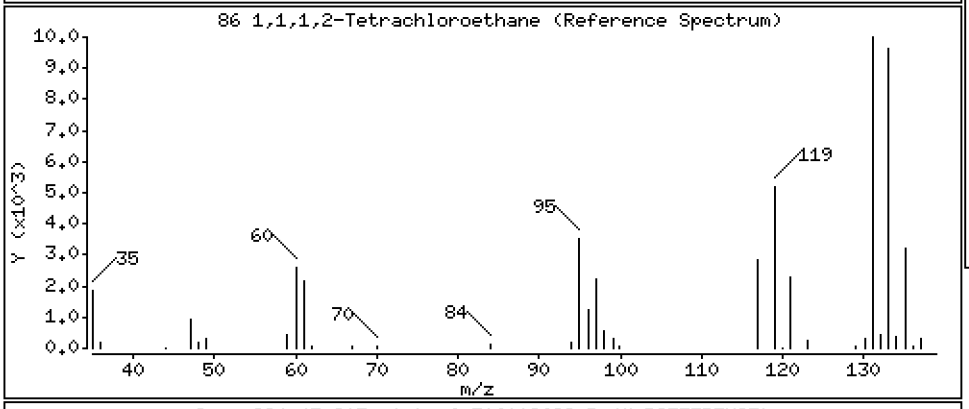
86 1,1,1,2-Tetrachloroethane Concentration: 48.4801 ug/L

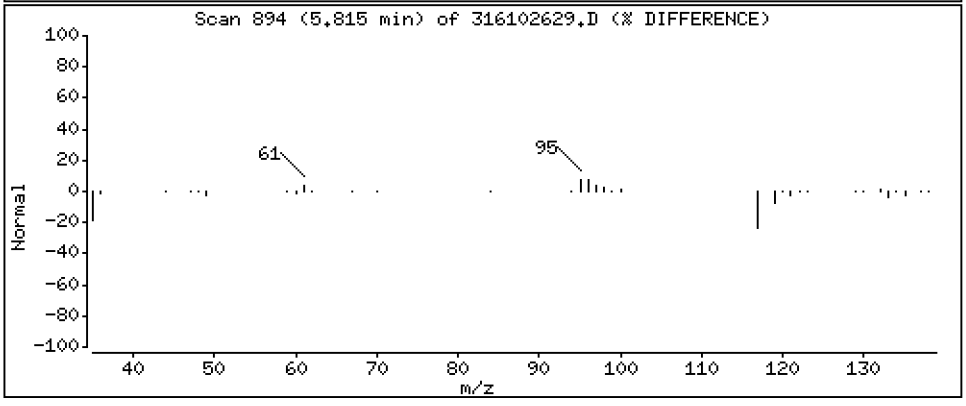












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 94

Date : 26-OCT-2016 19:41

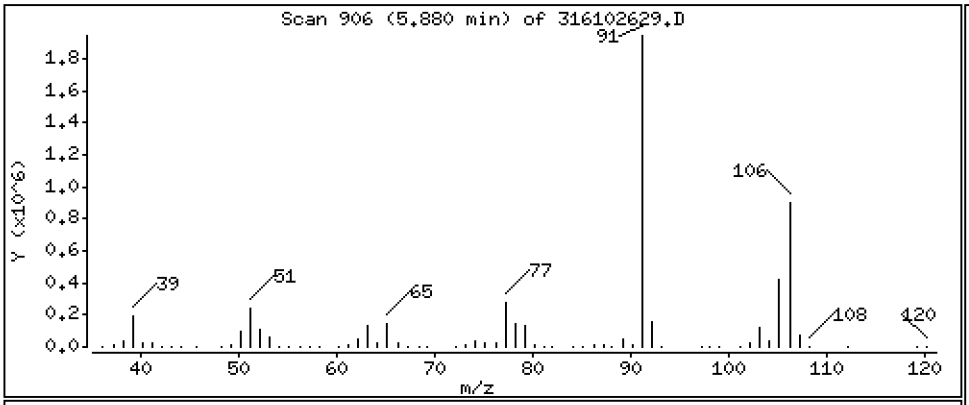
Client ID: Instrument: ms03.i

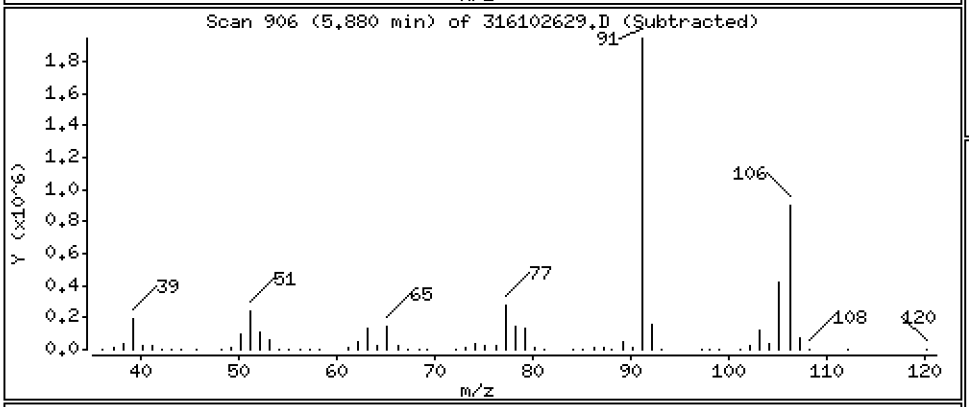
Sample Info: 1801;;1;2;4;;;

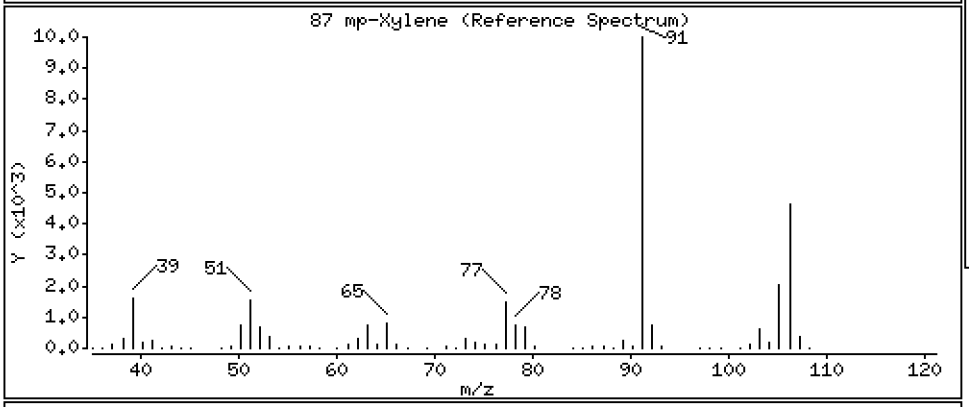
Purge Volume: 5.0 Operator: DD

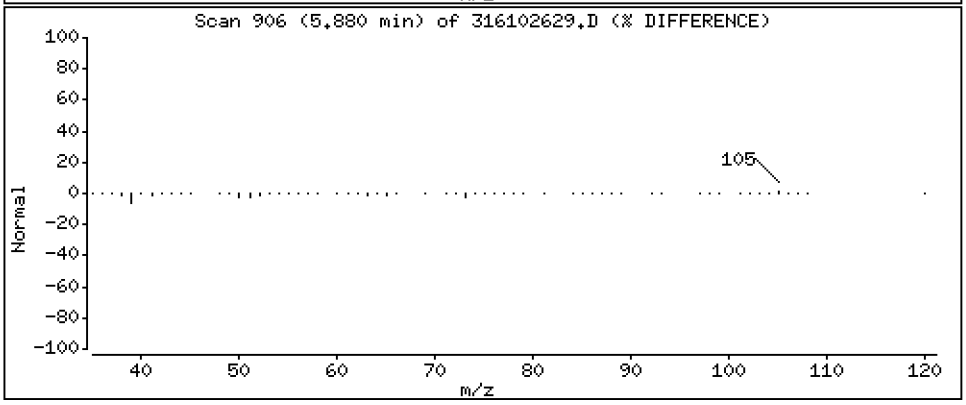
Column phase: DB-VRX Column diameter: 0.25

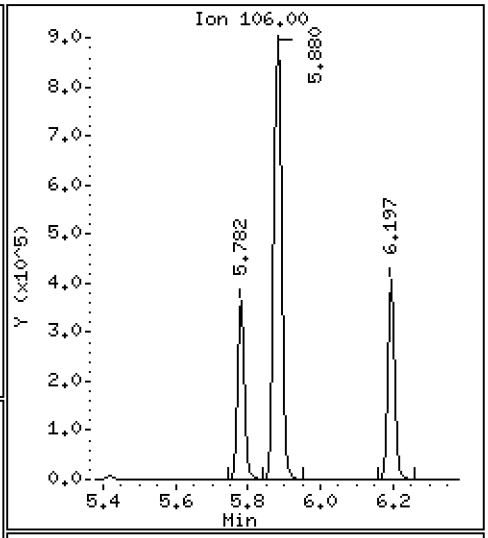
87 mp-Xylene Concentration: 92.7434 ug/L

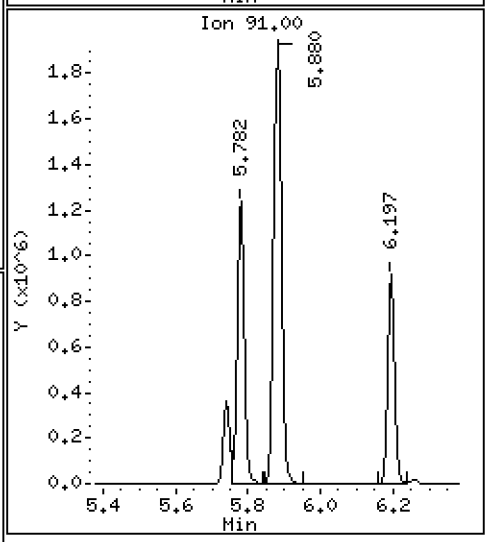












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 95

Date : 26-OCT-2016 19:41

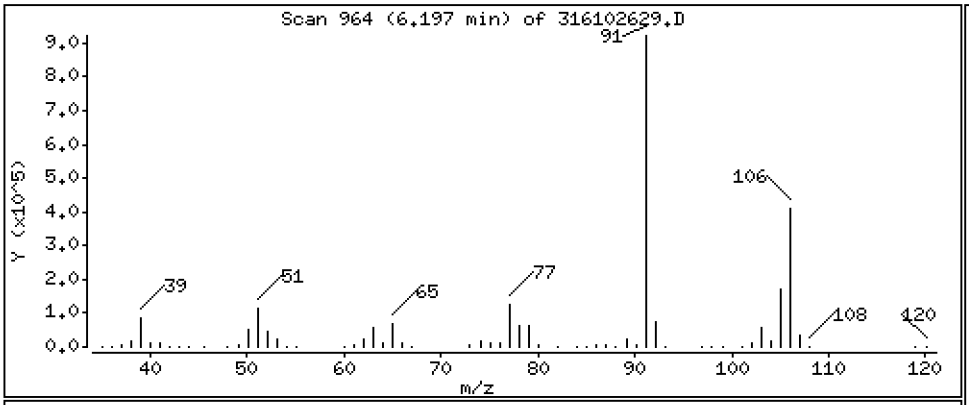
Client ID: Instrument: ms03.i

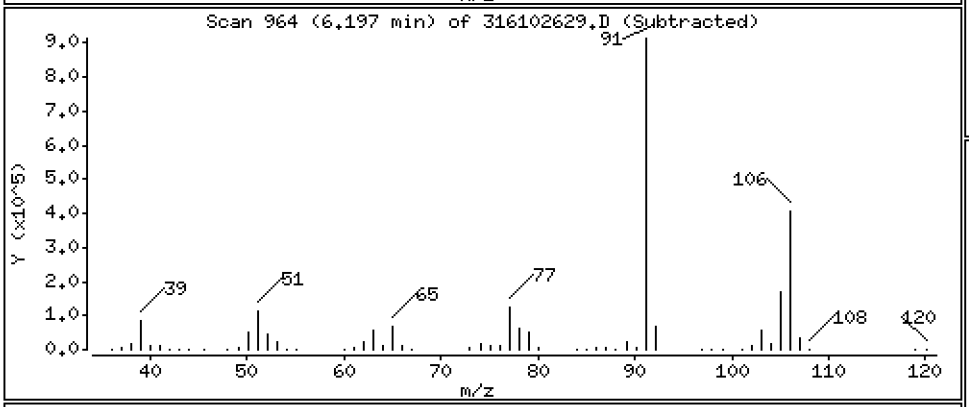
Sample Info: 1801;;1;2;4;;;

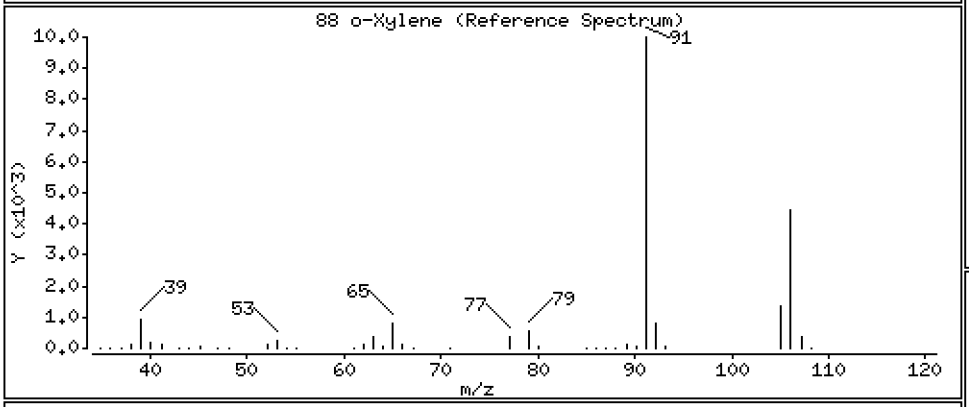
Purge Volume: 5.0 Operator: DD

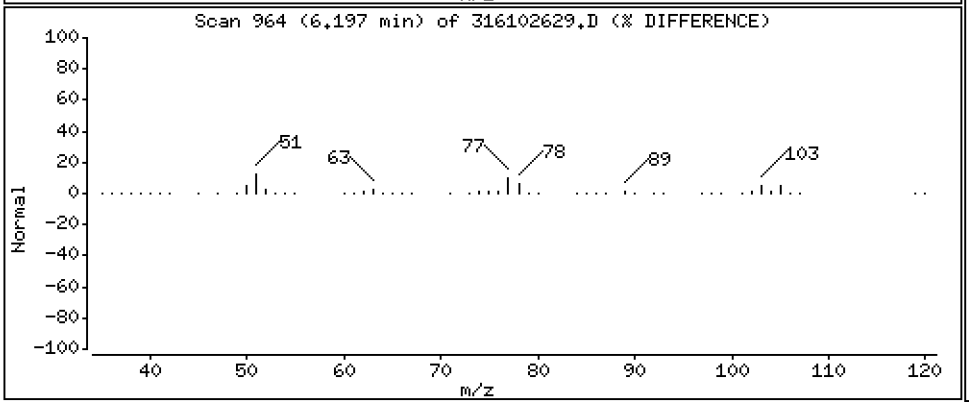
Column phase: DB-VRX Column diameter: 0.25

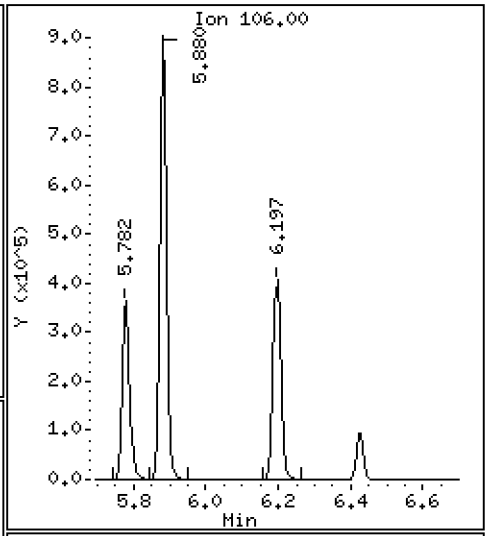
88 o-Xylene Concentration: 48.7190 ug/L

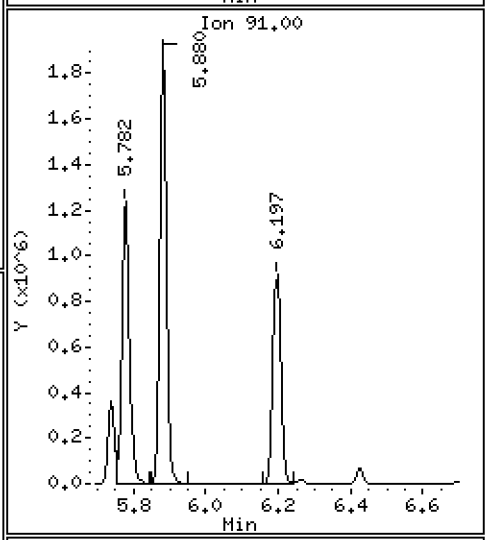


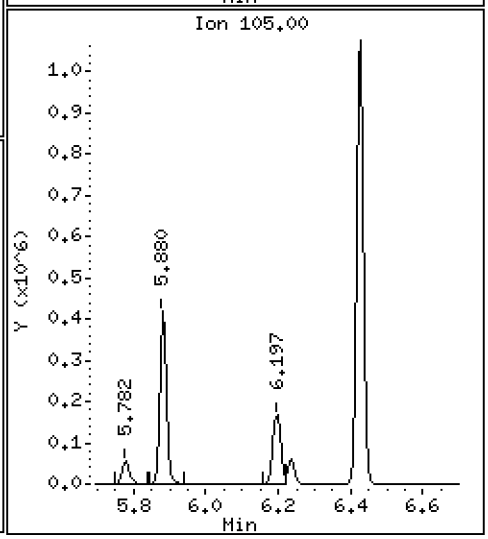












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 96

Date : 26-OCT-2016 19:41

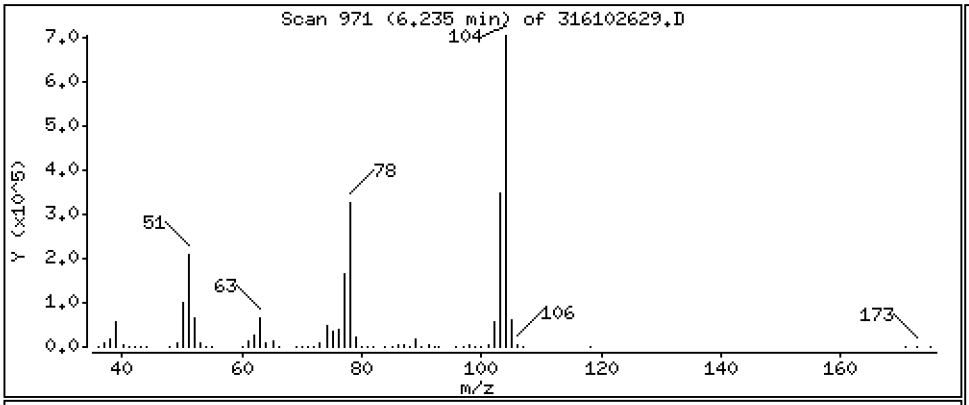
Client ID: Instrument: ms03.i

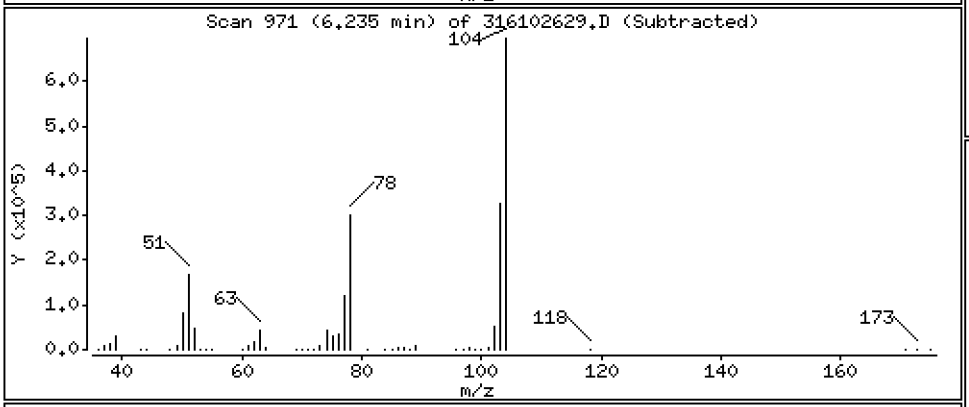
Sample Info: 1801;;1;2;4;;;

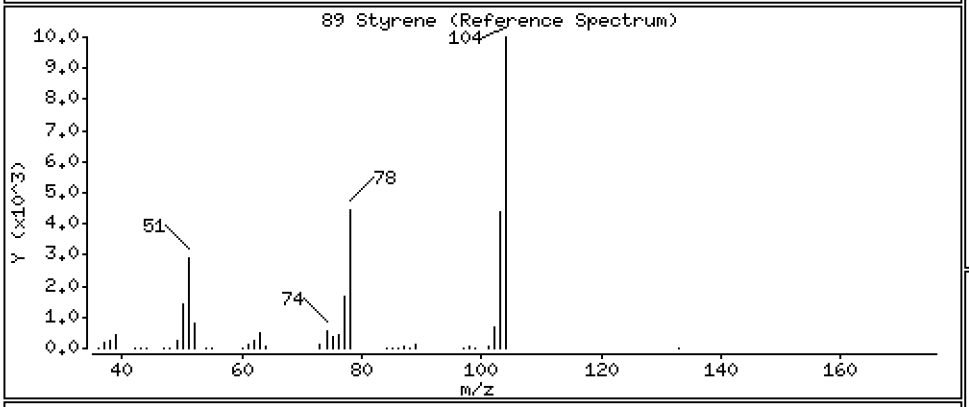
Purge Volume: 5.0 Operator: DD

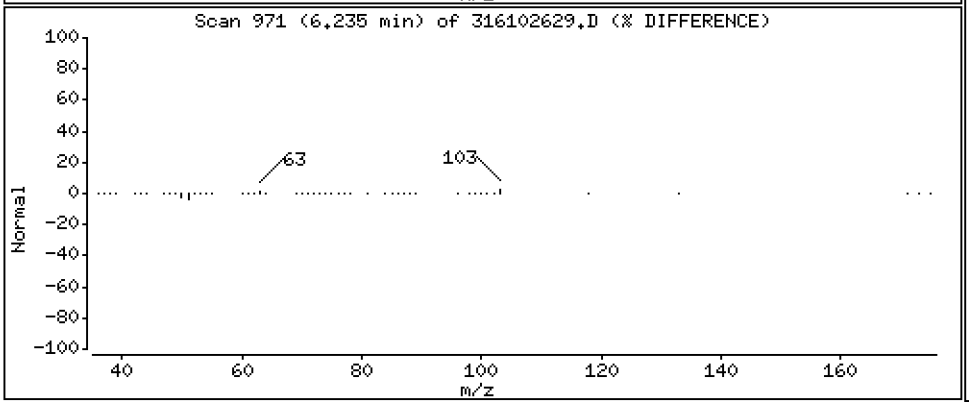
Column phase: DB-VRX Column diameter: 0.25

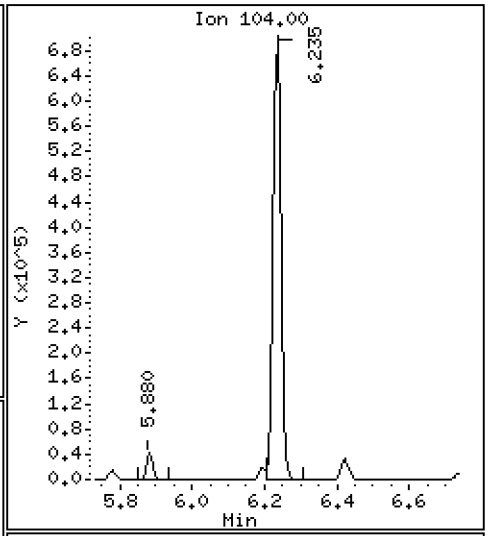
89 Styrene Concentration: 50.9154 ug/L

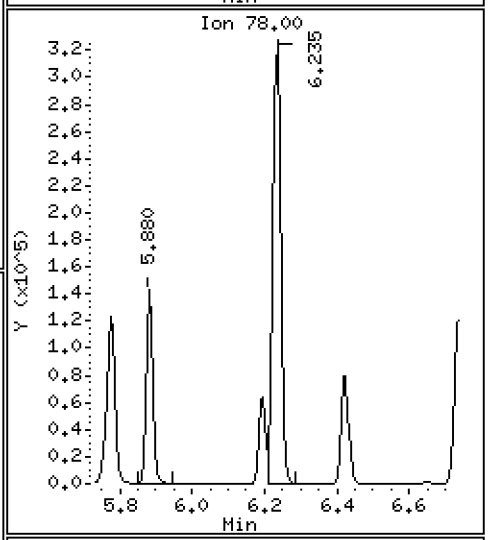


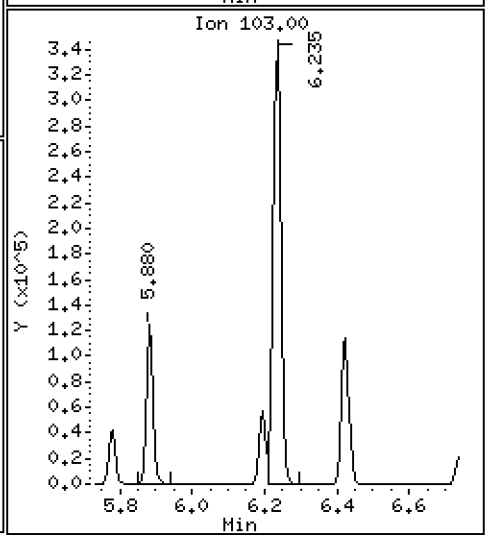












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 97

Date : 26-OCT-2016 19:41

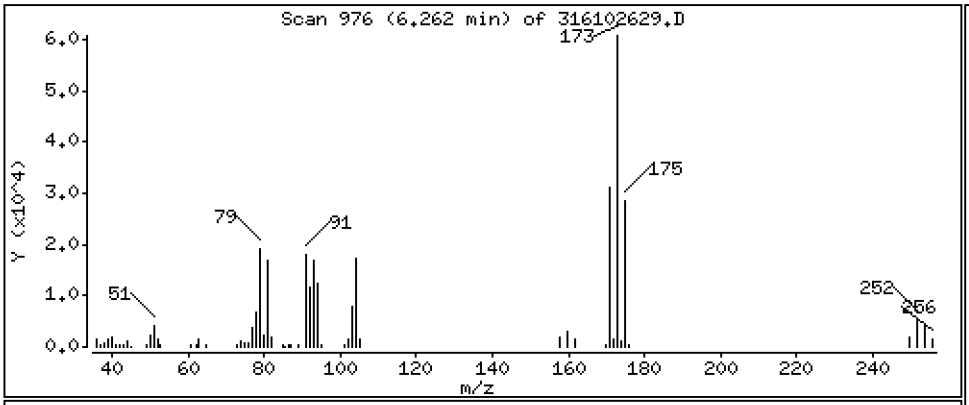
Client ID: Instrument: ms03.i

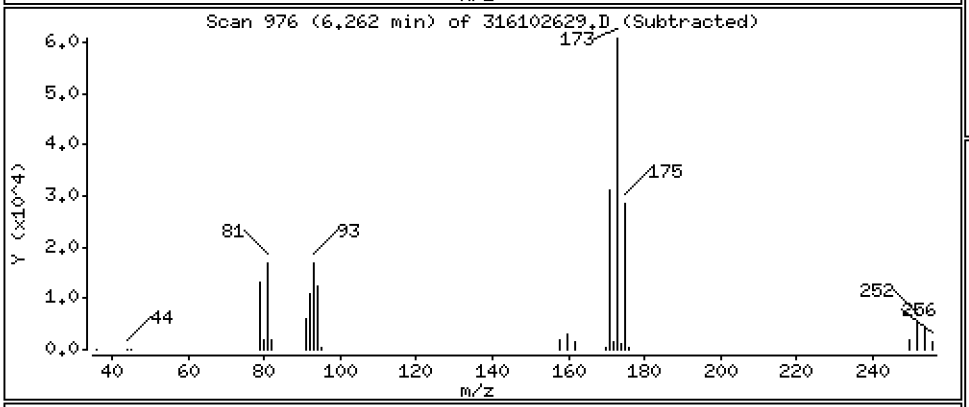
Sample Info: 1801;;1;2;4;;;

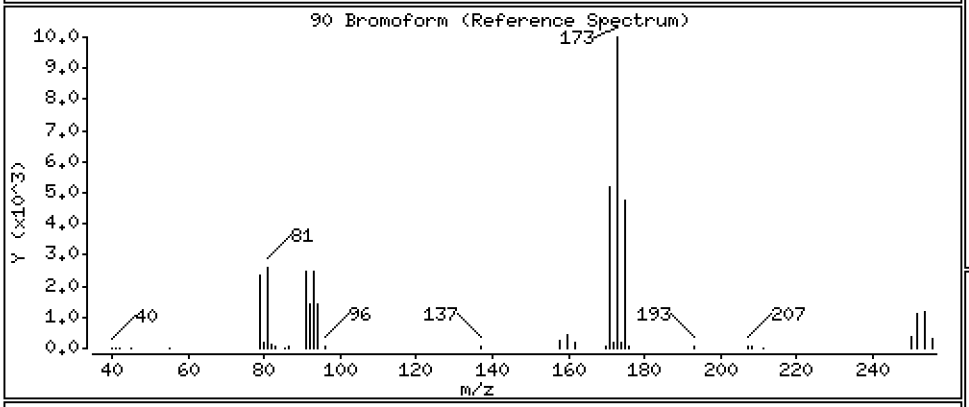
Purge Volume: 5.0 Operator: DD

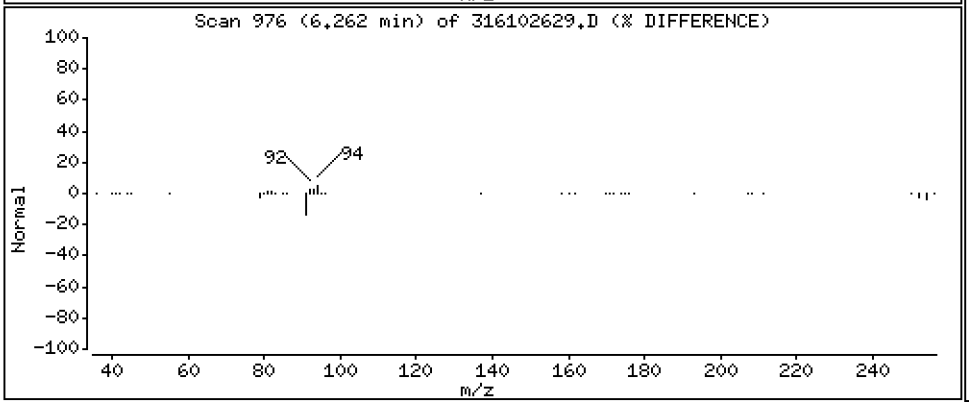
Column phase: DB-VRX Column diameter: 0.25

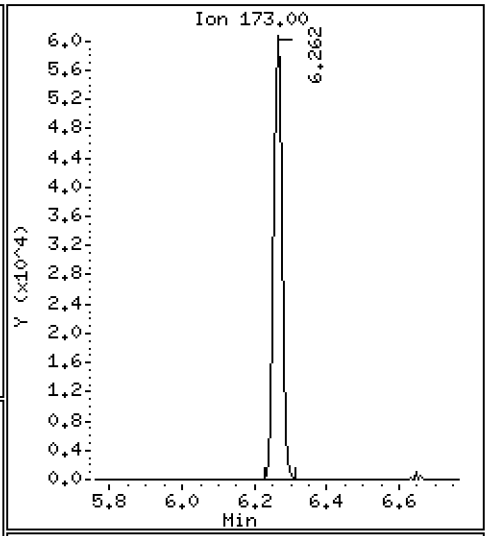
90 Bromoform Concentration: 37.0993 ug/L

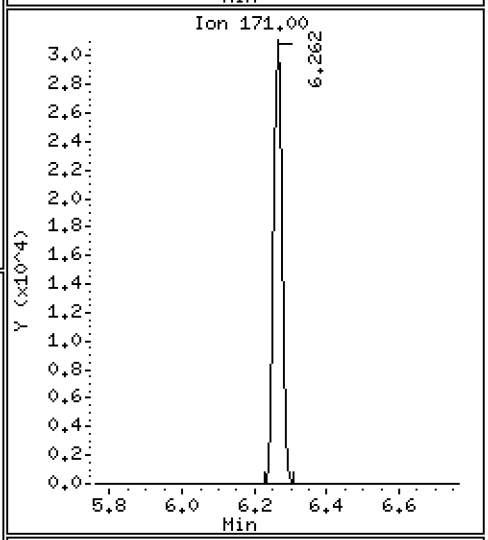


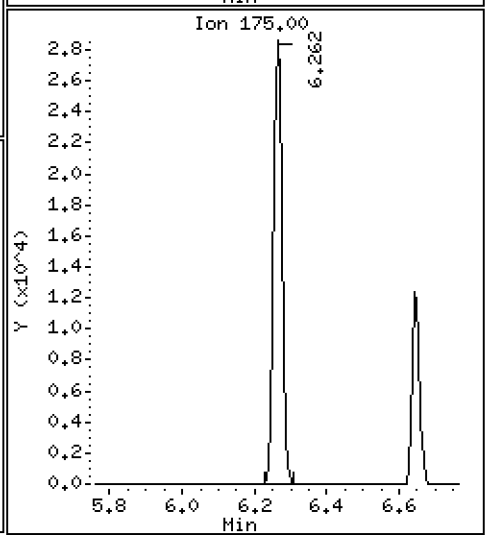












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 98

Date : 26-OCT-2016 19:41

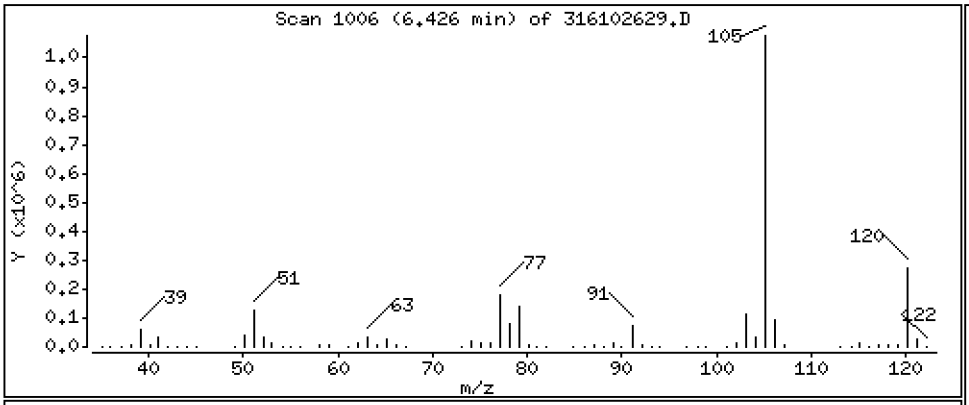
Client ID: Instrument: ms03.i

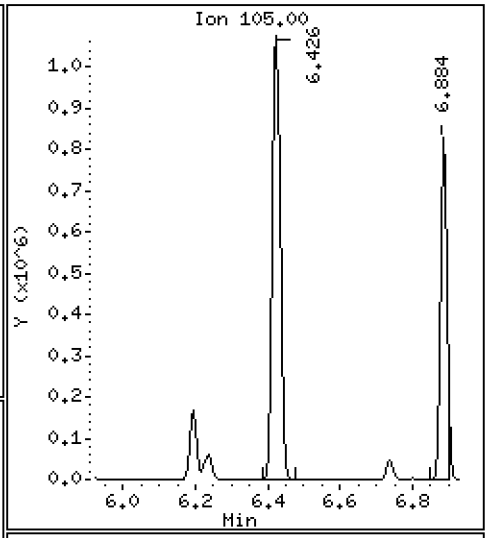
Sample Info: 1801;;1;2;4;;;

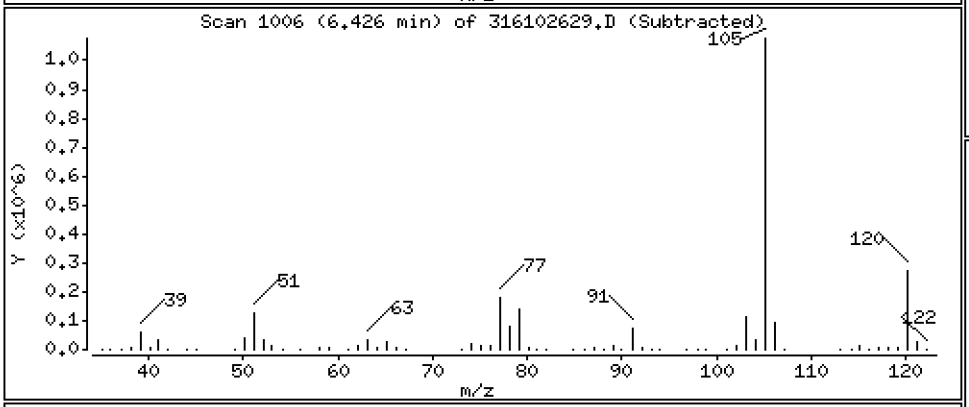
Purge Volume: 5.0 Operator: DD

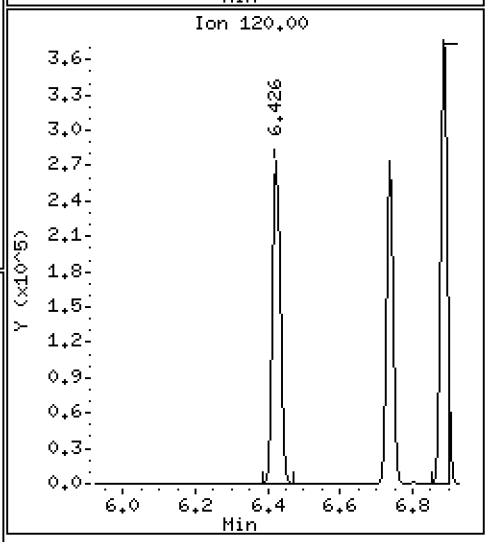
Column phase: DB-VRX Column diameter: 0.25

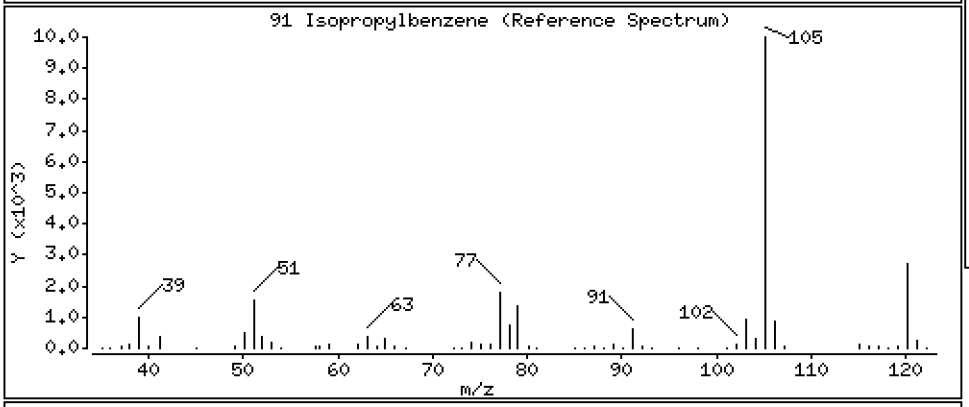
91 Isopropylbenzene Concentration: 48.7371 ug/L

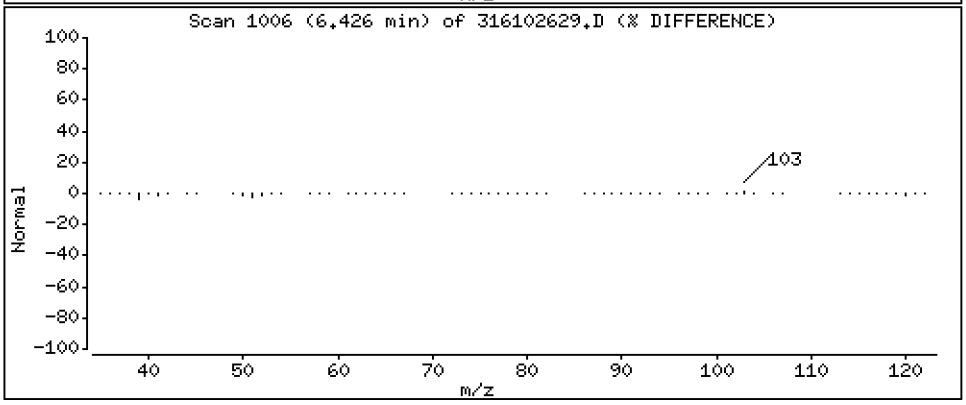












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 99

Date : 26-OCT-2016 19:41

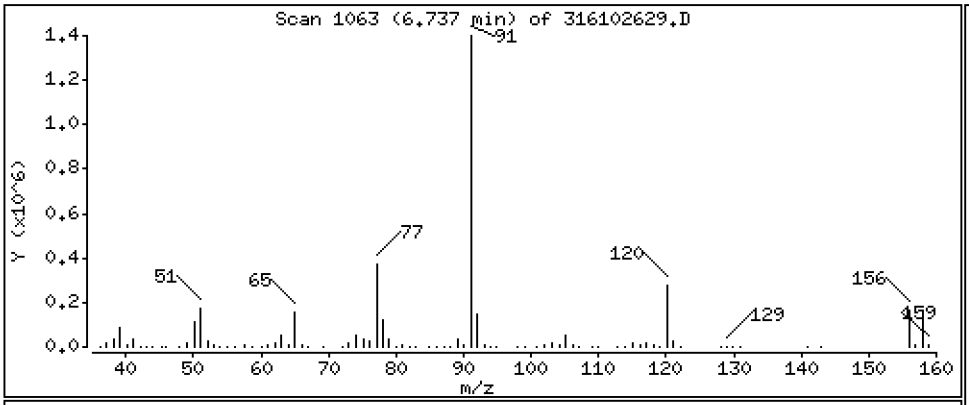
Client ID: Instrument: ms03.i

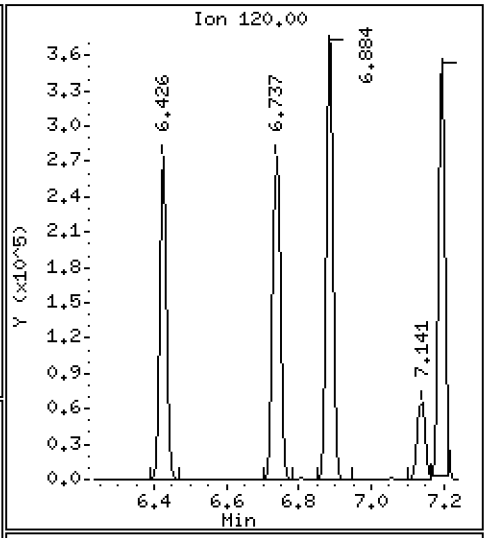
Sample Info: 1801;;1;2;4;;;

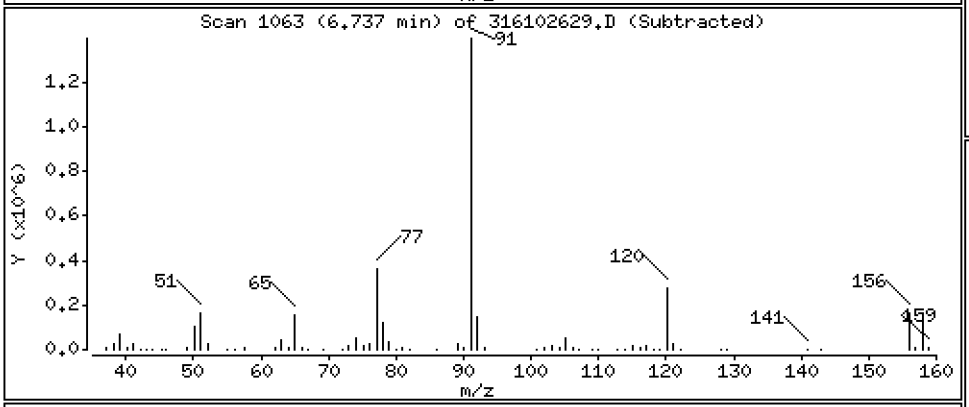
Purge Volume: 5.0 Operator: DD

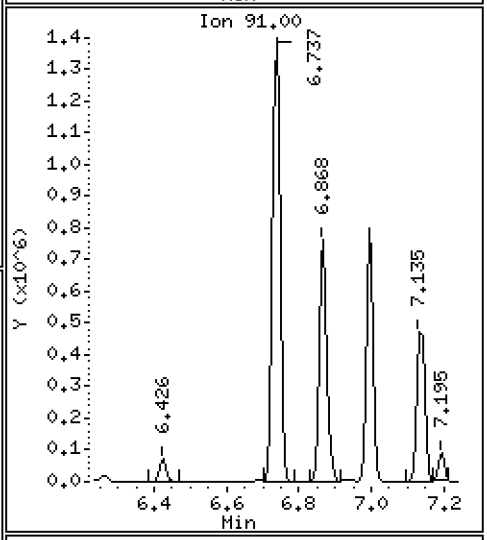
Column phase: DB-VRX Column diameter: 0.25

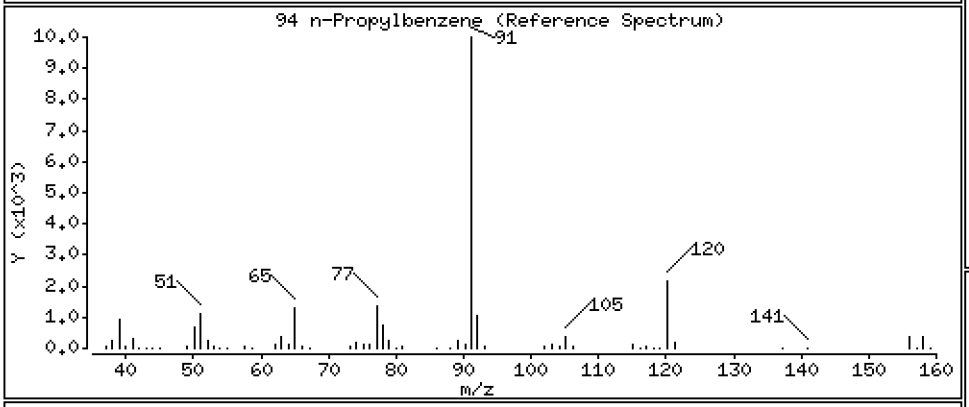
94 n-Propylbenzene Concentration: 48.1138 ug/L

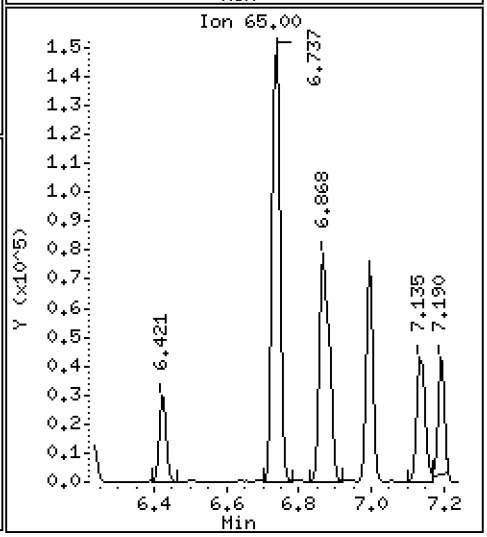


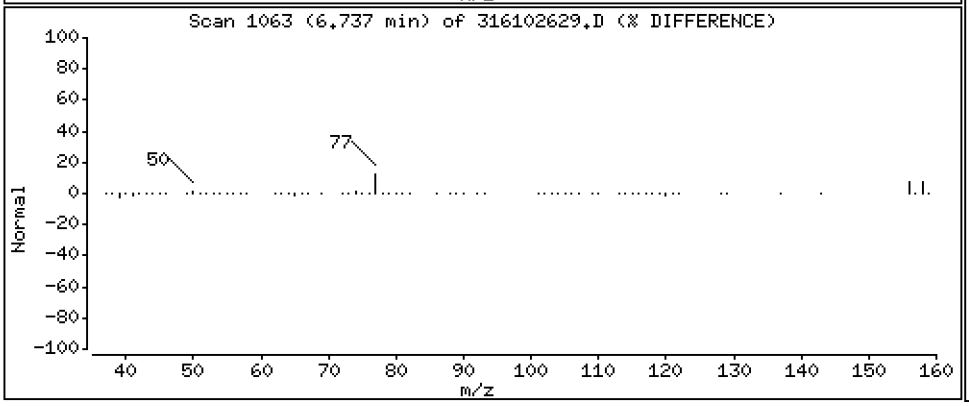












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 100

Date : 26-OCT-2016 19:41

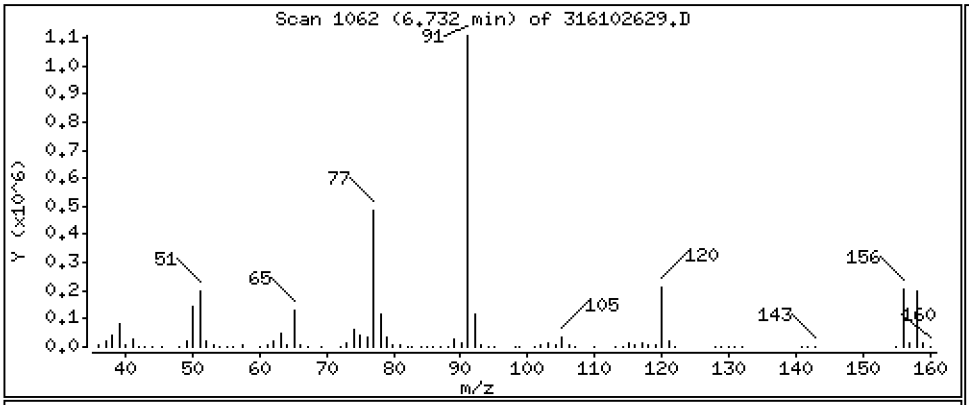
Client ID: Instrument: ms03.i

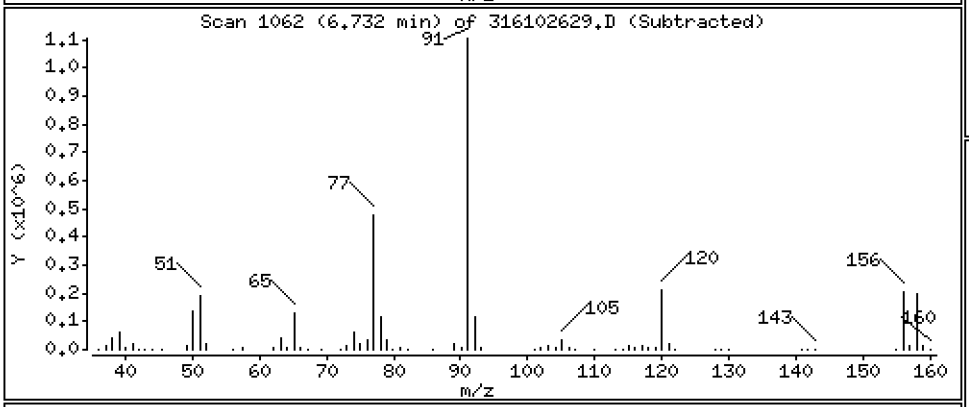
Sample Info: 1801;;1;2;4;;;

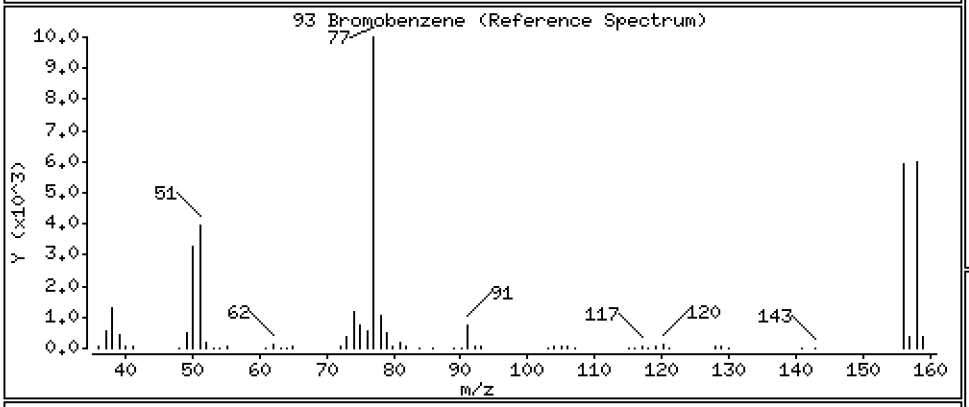
Purge Volume: 5.0 Operator: DD

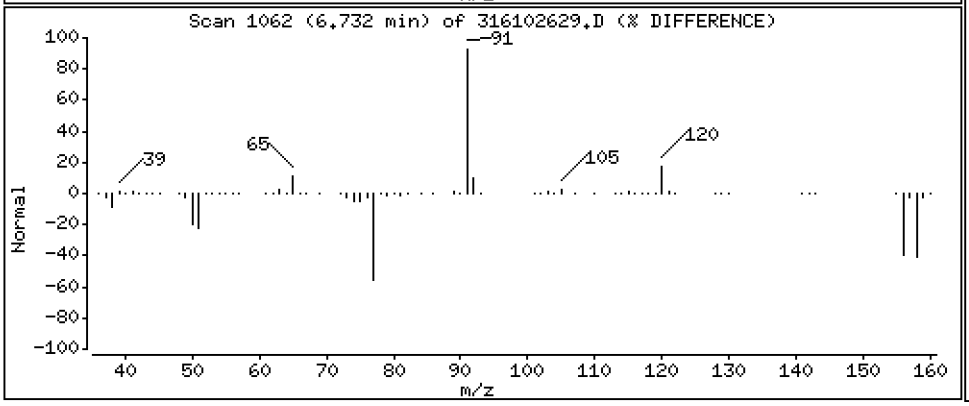
Column phase: DB-VRX Column diameter: 0.25

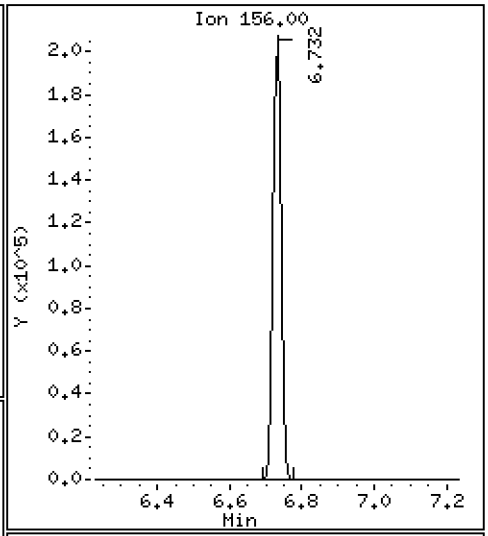
93 Bromobenzene Concentration: 44.9444 ug/L

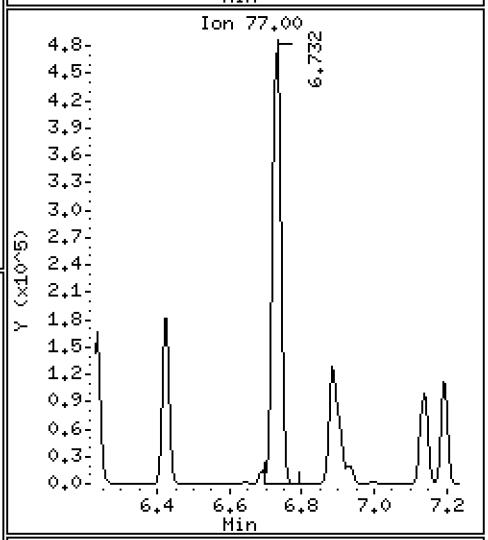


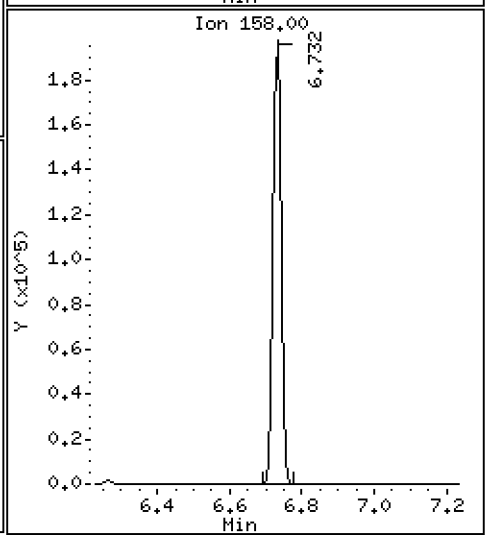












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 101

Date : 26-OCT-2016 19:41

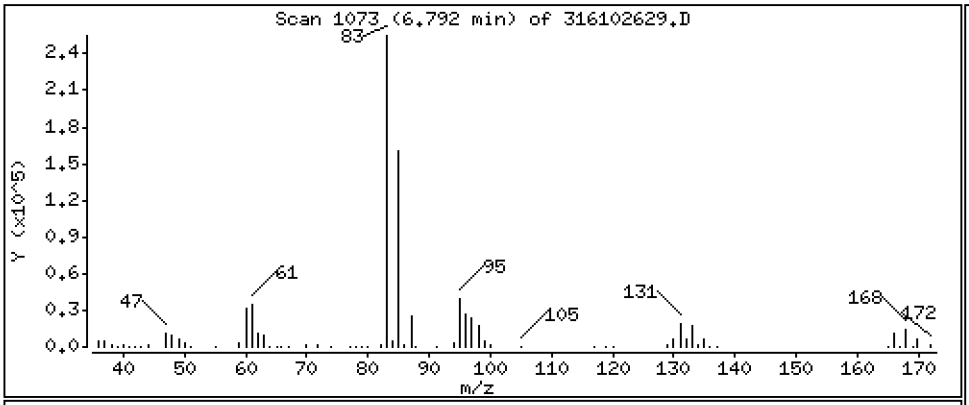
Client ID: Instrument: ms03.i

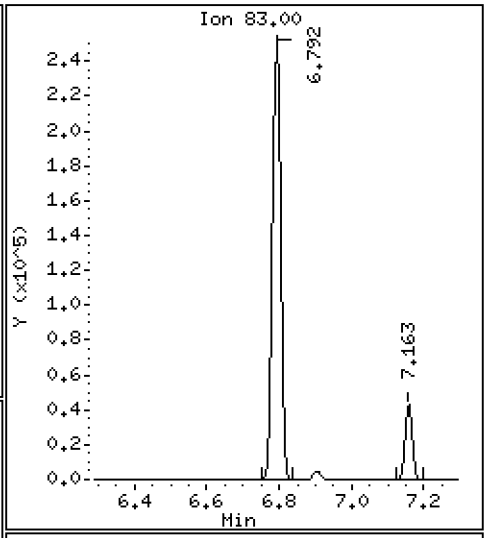
Sample Info: 1801;;1;2;4;;;

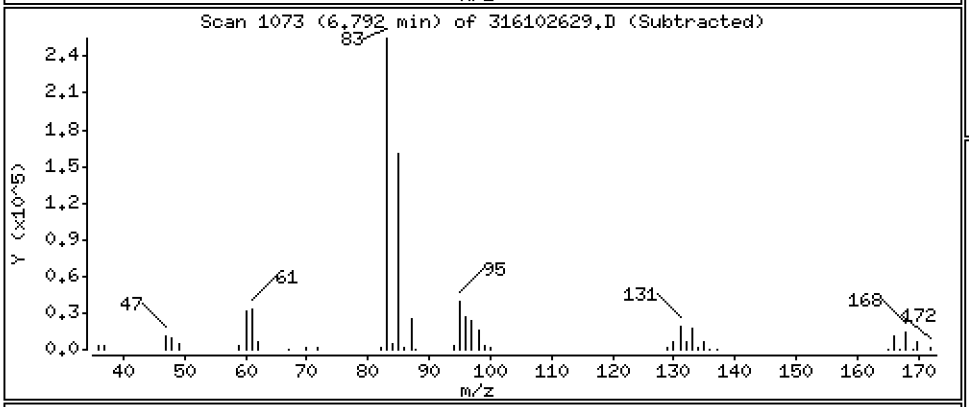
Purge Volume: 5.0 Operator: DD

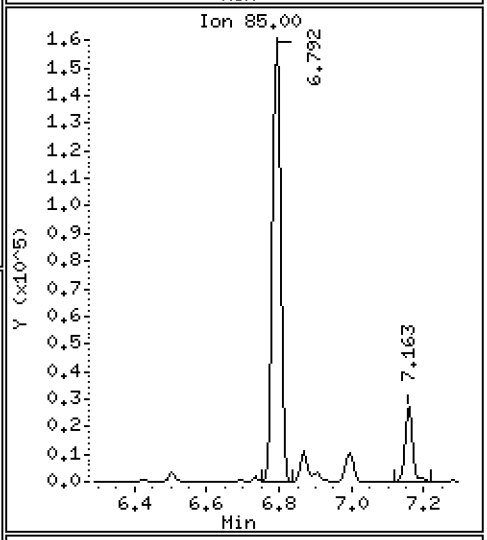
Column phase: DB-VRX Column diameter: 0.25

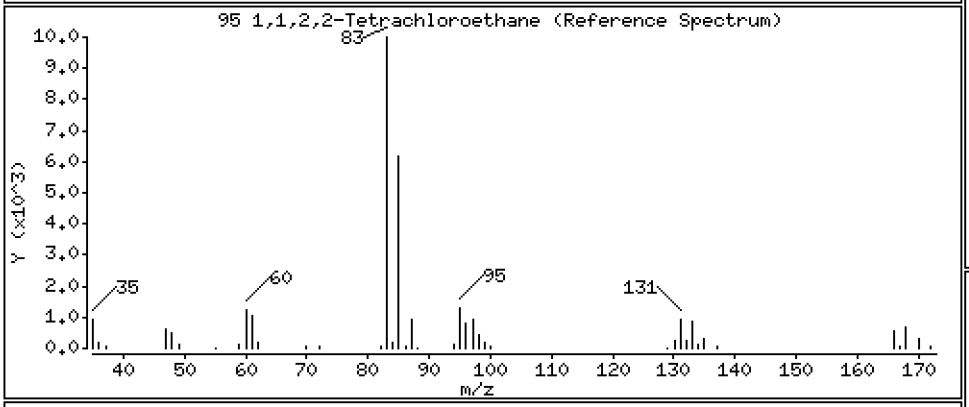
95 1,1,2,2-Tetrachloroethane Concentration: 48.6335 ug/L

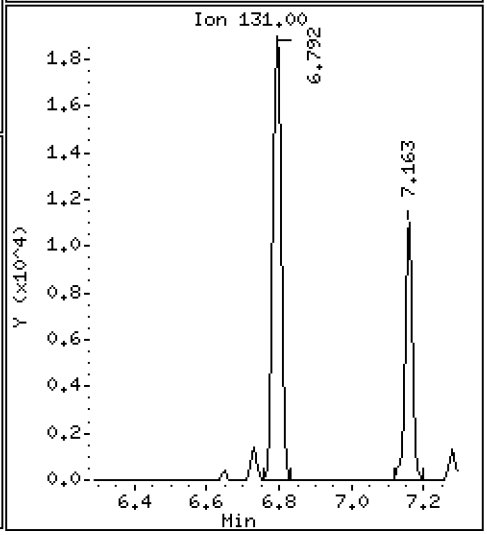


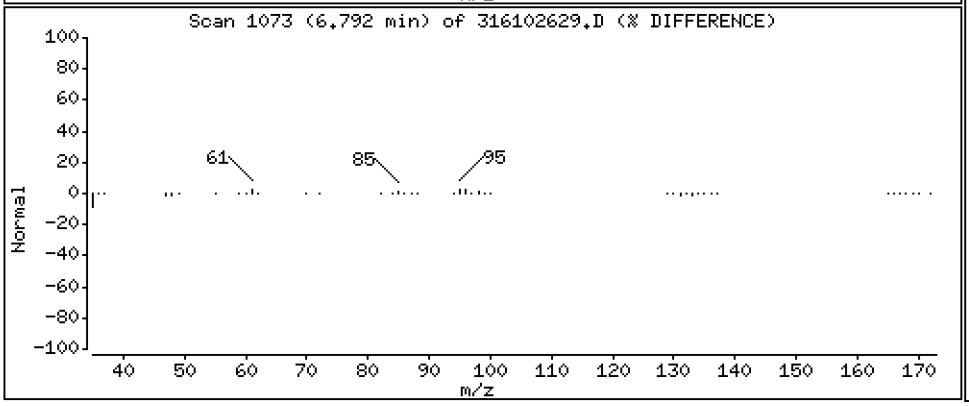












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 102

Date : 26-OCT-2016 19:41

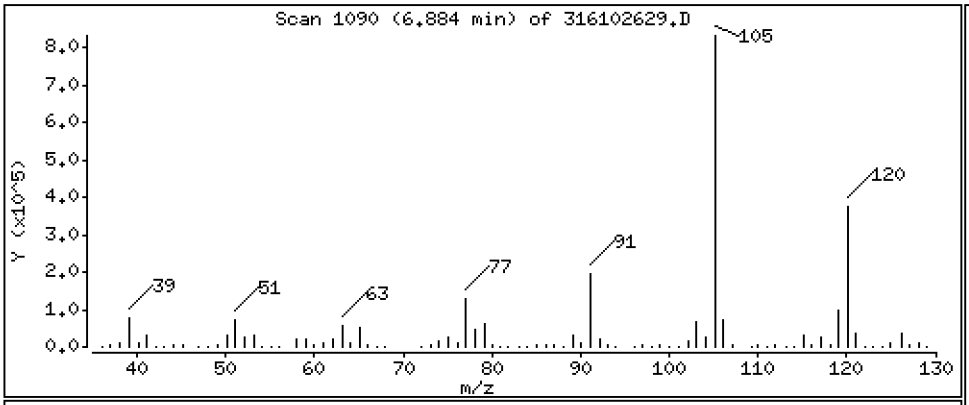
Client ID: Instrument: ms03.i

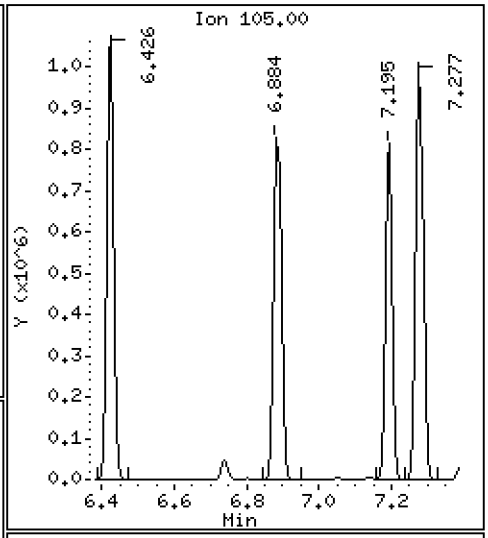
Sample Info: 1801;;1;2;4;;;

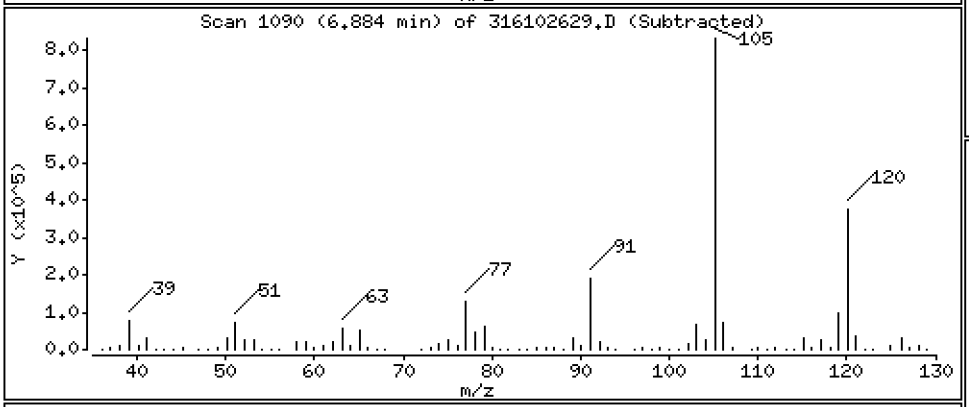
Purge Volume: 5.0 Operator: DD

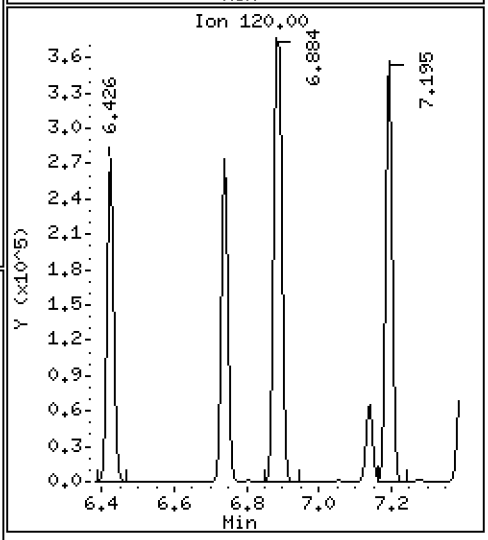
Column phase: DB-VRX Column diameter: 0.25

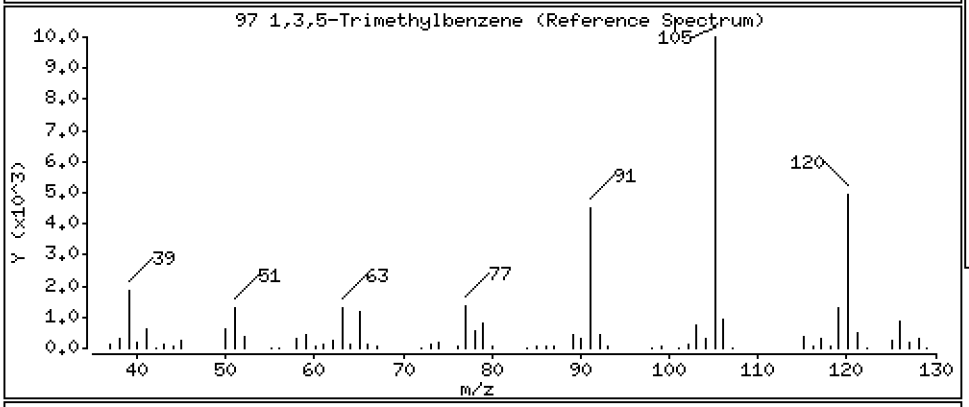
97 1,3,5-Trimethylbenzene Concentration: 50.0751 ug/L

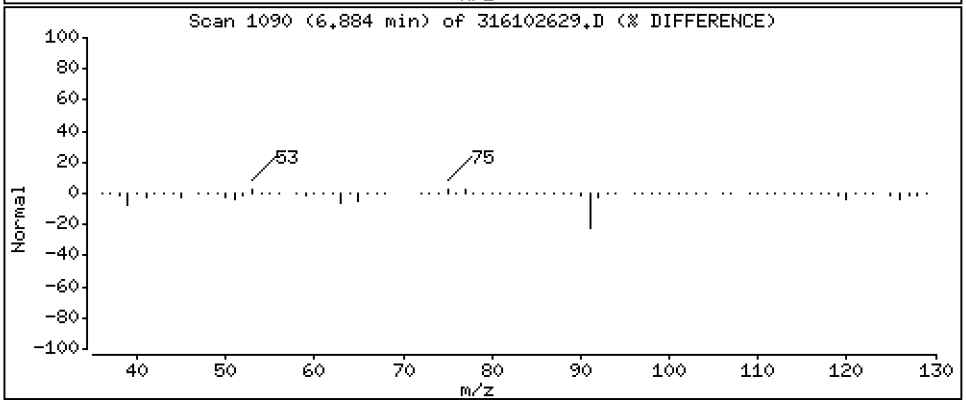












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 103

Date : 26-OCT-2016 19:41

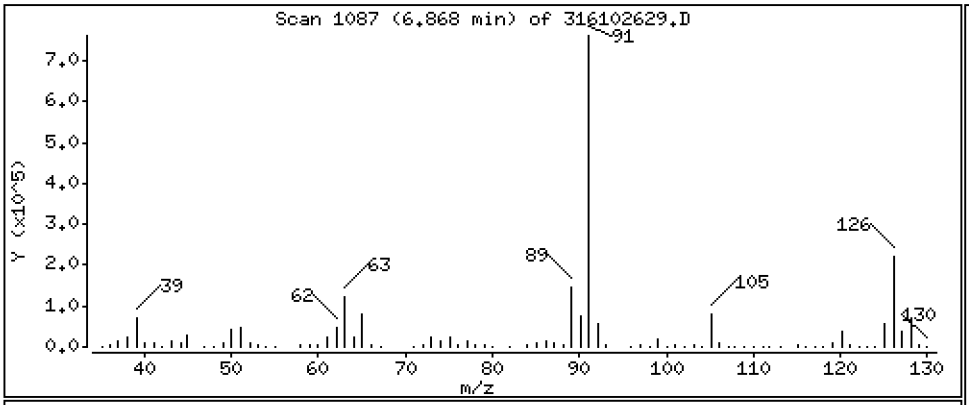
Client ID: Instrument: ms03.i

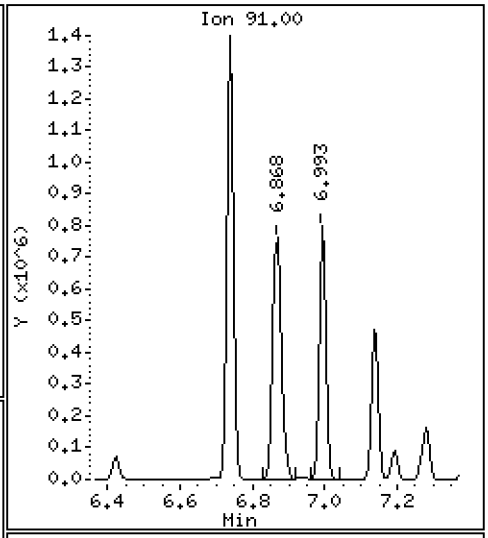
Sample Info: 1801;;1;2;4;;;

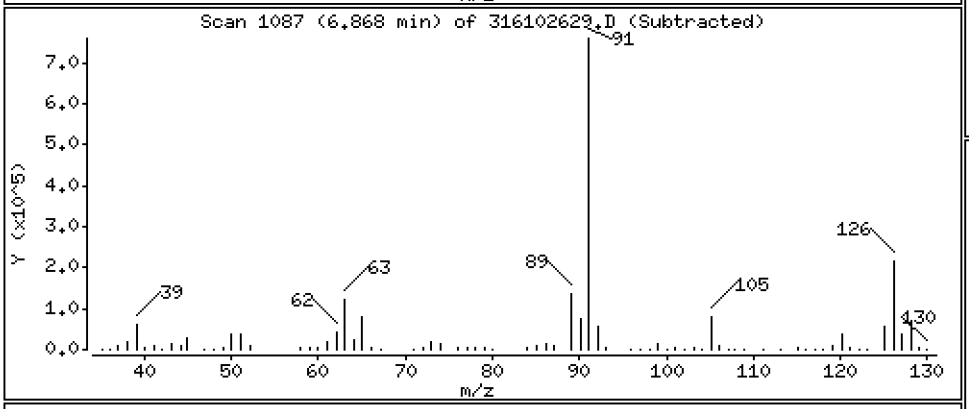
Purge Volume: 5.0 Operator: DD

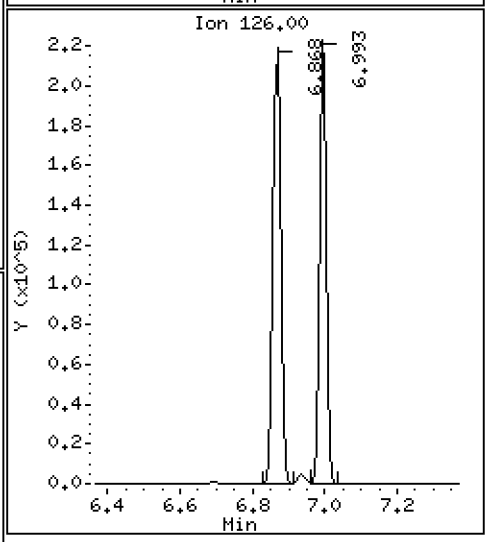
Column phase: DB-VRX Column diameter: 0.25

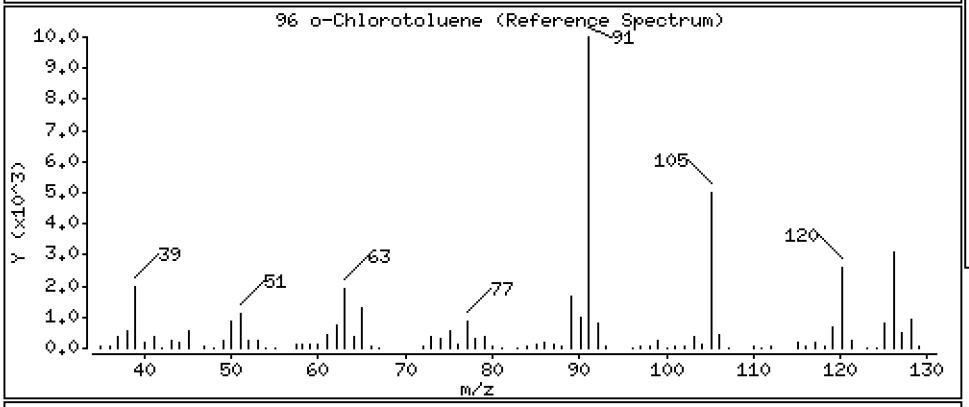
96 o-Chlorotoluene Concentration: 48.8729 ug/L

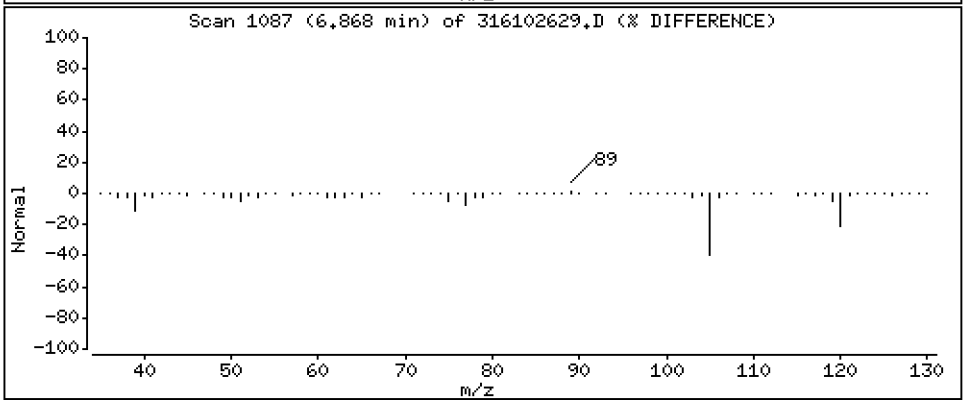












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 104

Date : 26-OCT-2016 19:41

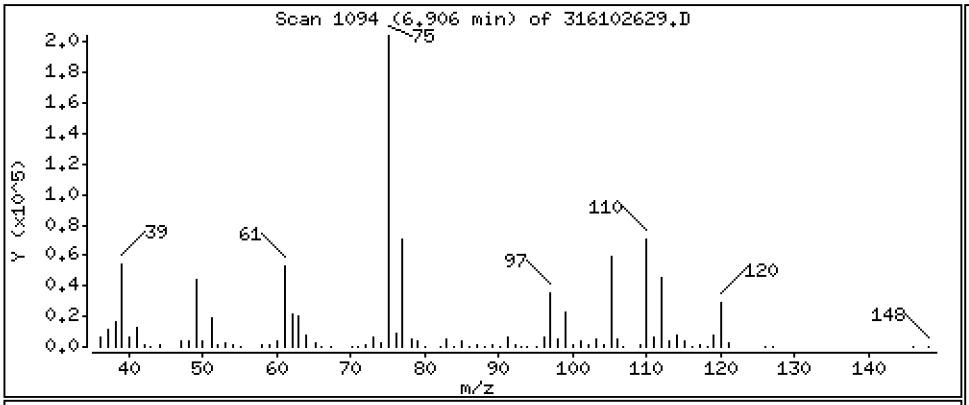
Client ID: Instrument: ms03.i

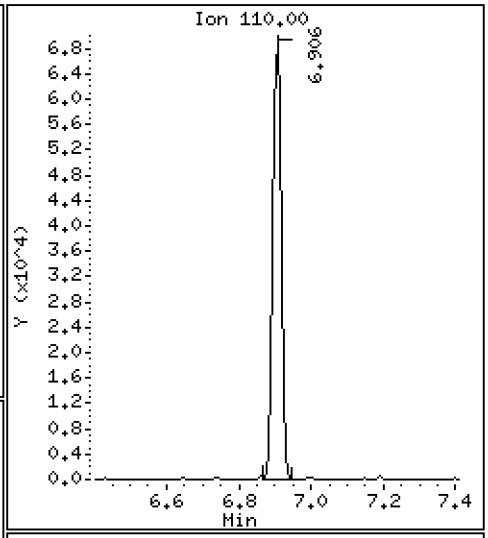
Sample Info: 1801;;1;2;4;;;

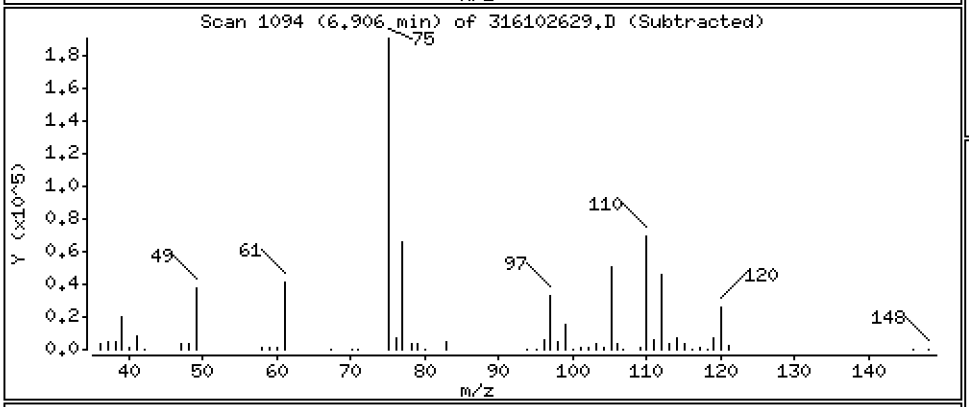
Purge Volume: 5.0 Operator: DD

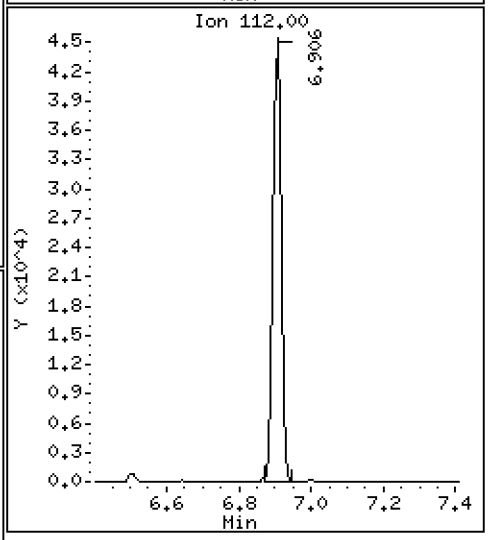
Column phase: DB-VRX Column diameter: 0.25

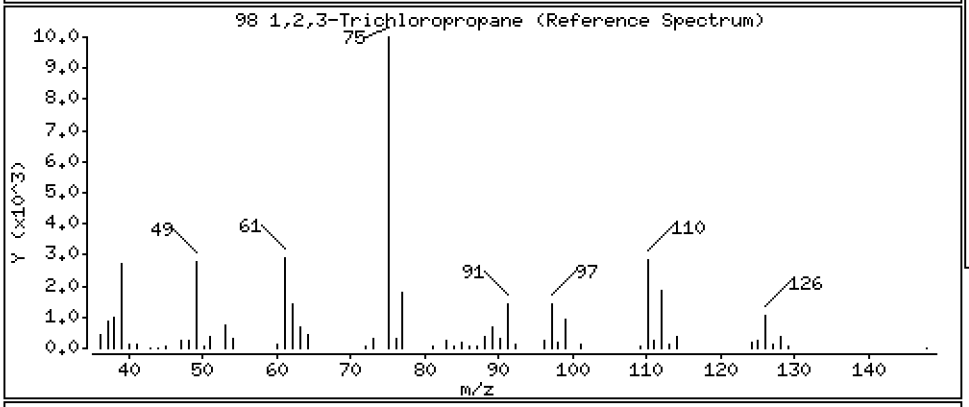
98 1,2,3-Trichloropropane Concentration: 46.1543 ug/L

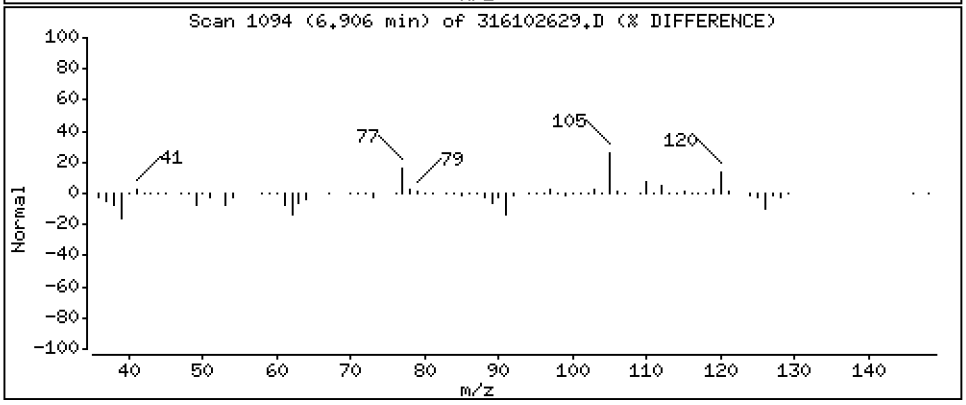












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 105

Date : 26-OCT-2016 19:41

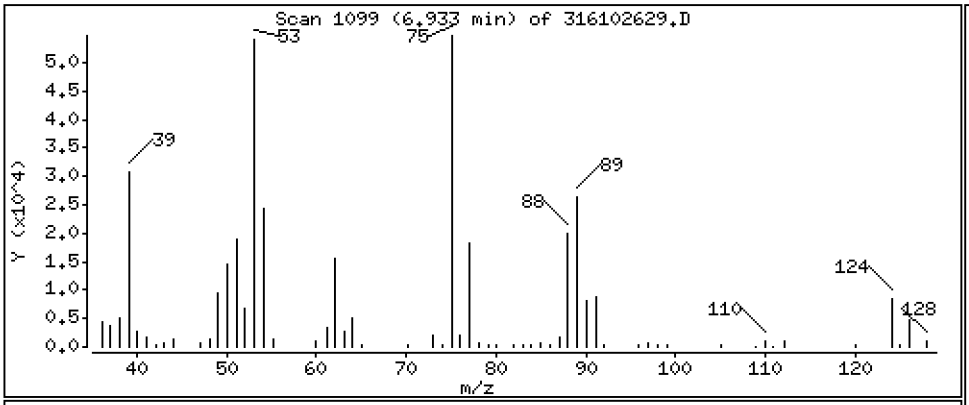
Client ID: Instrument: ms03.i

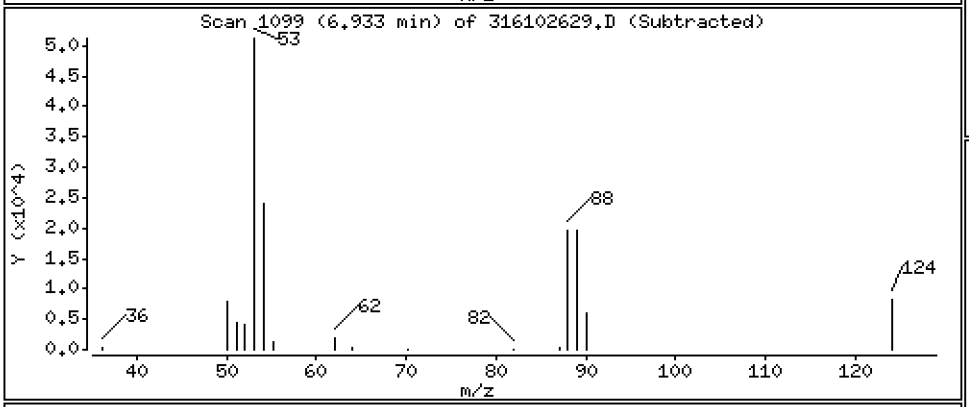
Sample Info: 1801;;1;2;4;;;

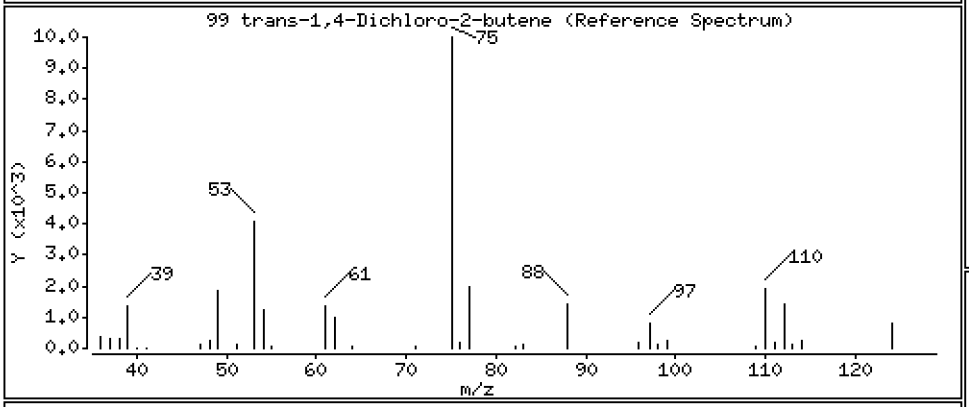
Purge Volume: 5.0 Operator: DD

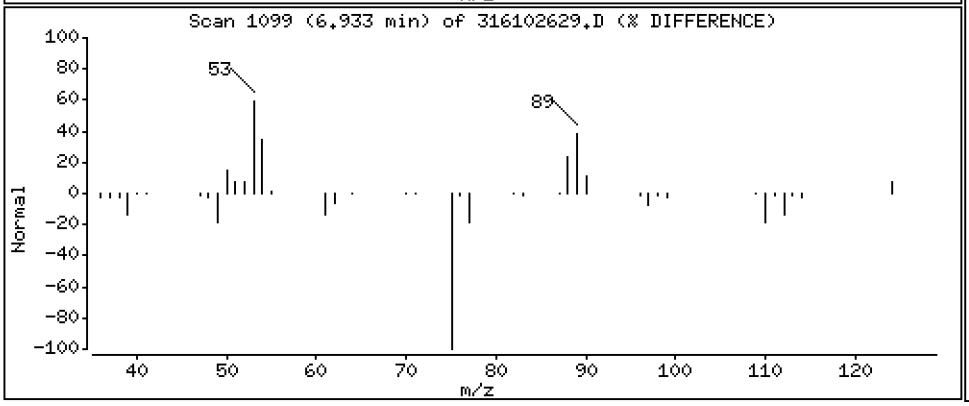
Column phase: DB-VRX Column diameter: 0.25

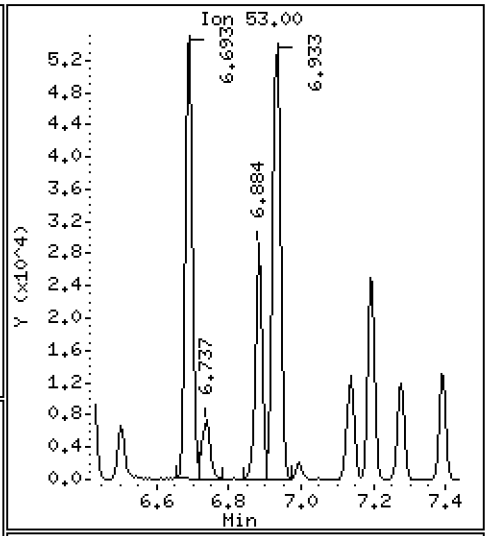
99 trans-1,4-Dichloro-2-butene Concentration: 42.0557 ug/L

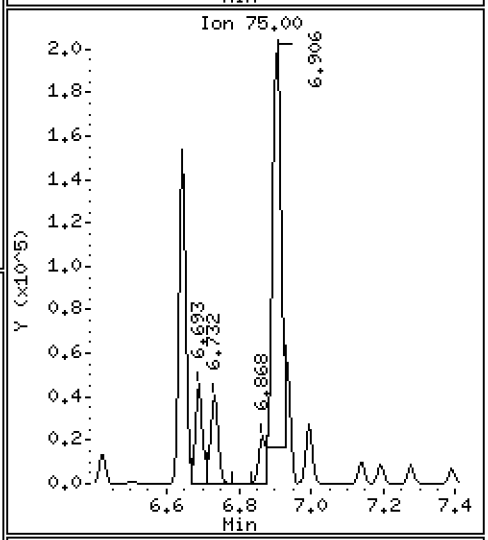


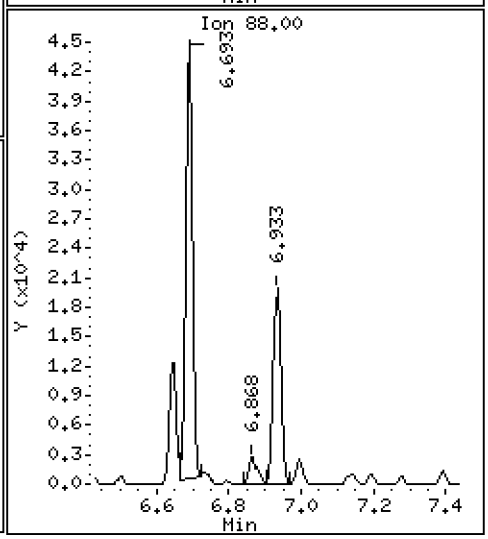












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 106

Date : 26-OCT-2016 19:41

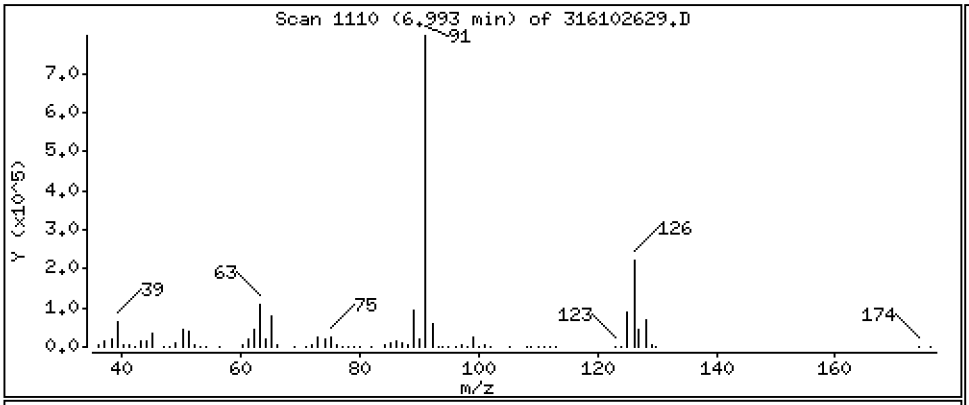
Client ID: Instrument: ms03.i

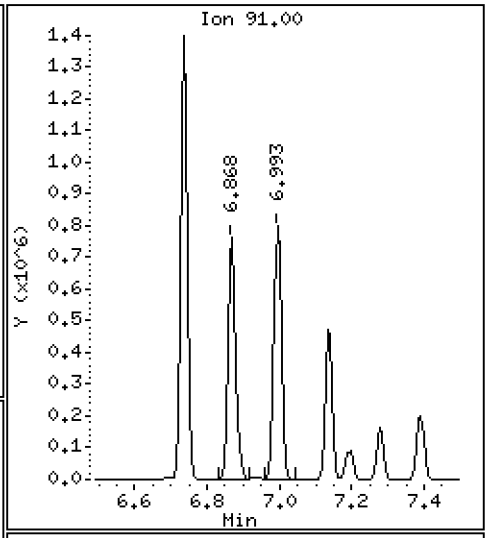
Sample Info: 1801;;1;2;4;;;

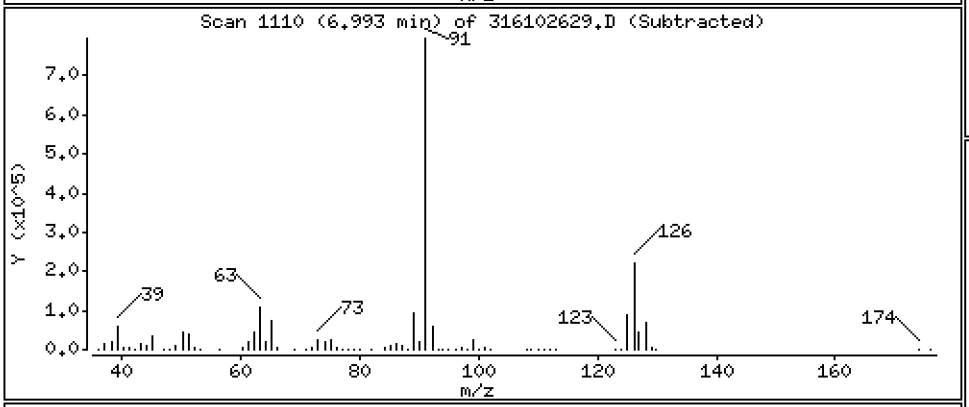
Purge Volume: 5.0 Operator: DD

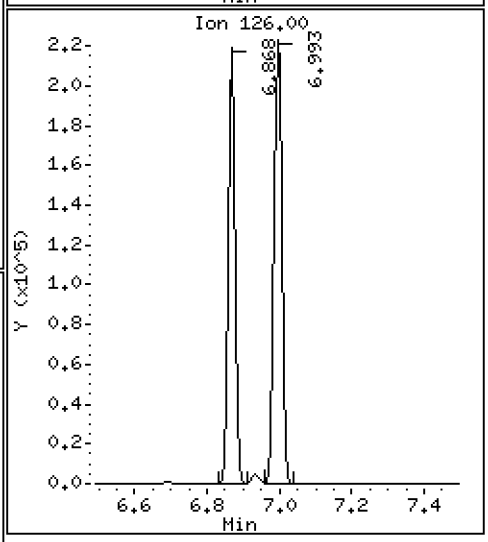
Column phase: DB-VRX Column diameter: 0.25

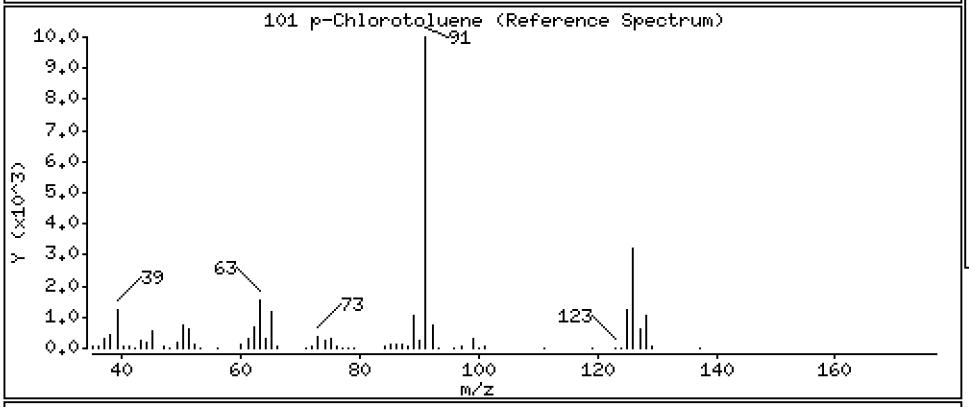
101 p-Chlorotoluene Concentration: 49.0521 ug/L

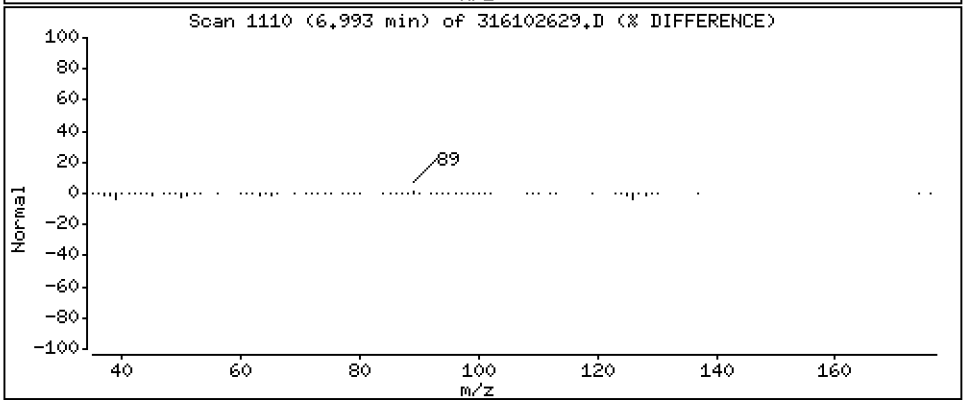












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 107

Date : 26-OCT-2016 19:41

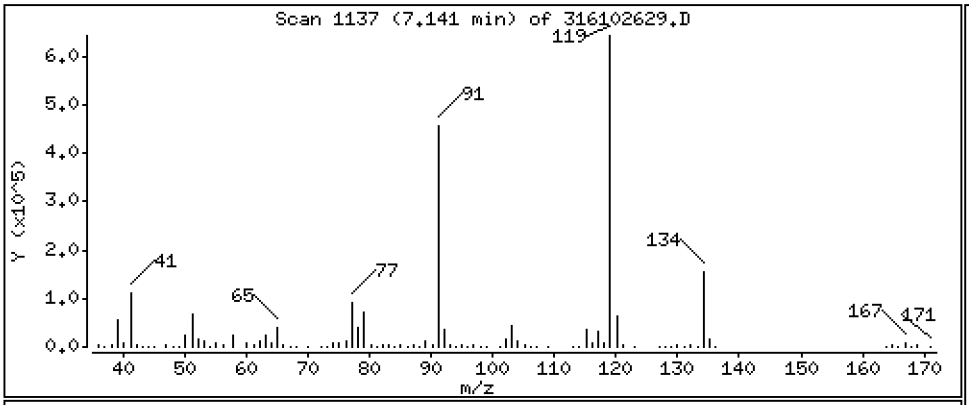
Client ID: Instrument: ms03.i

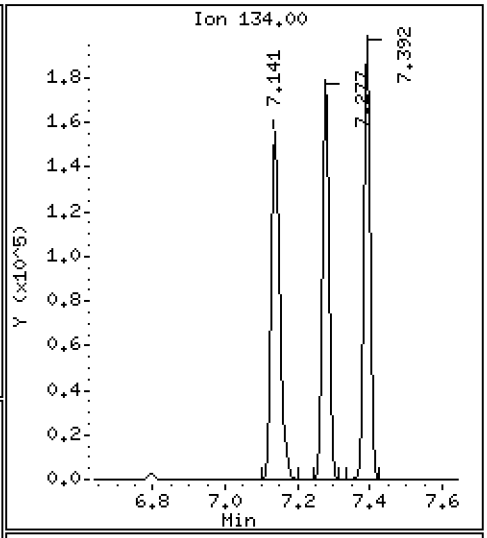
Sample Info: 1801;;1;2;4;;;

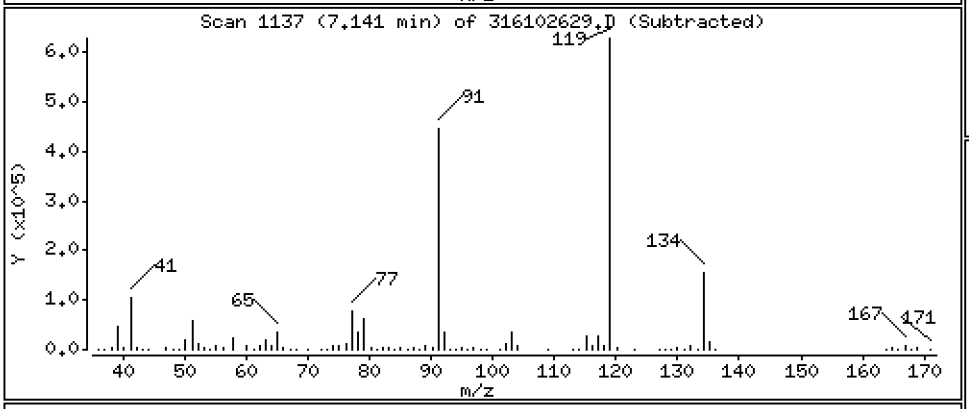
Purge Volume: 5.0 Operator: DD

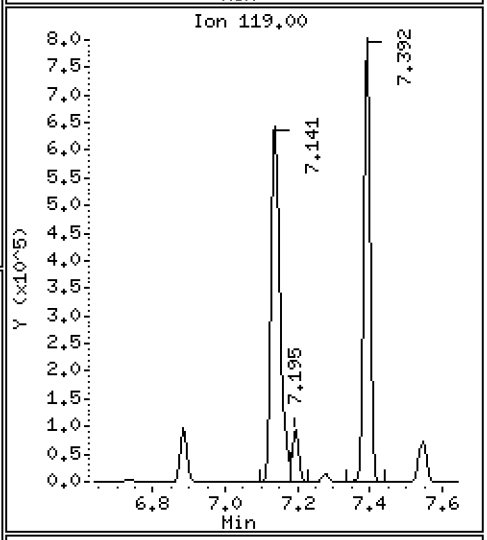
Column phase: DB-VRX Column diameter: 0.25

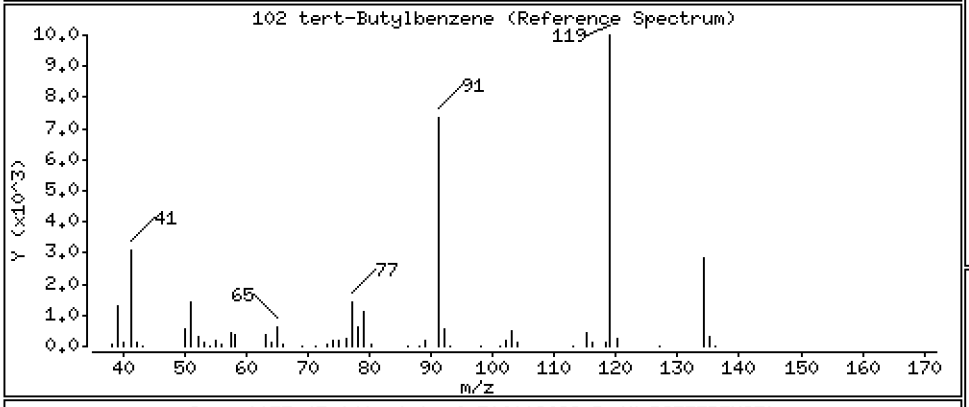
102 tert-Butylbenzene Concentration: 46.4496 ug/L

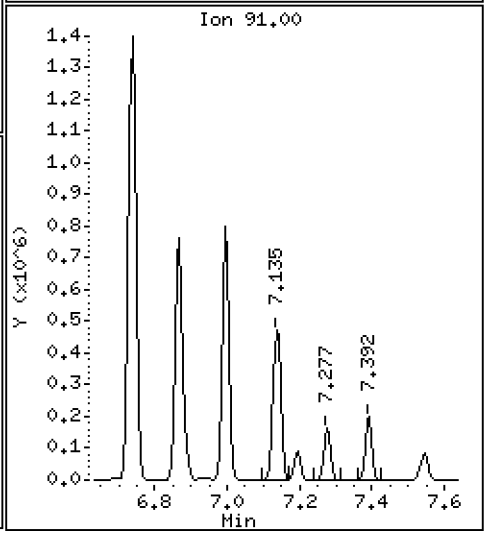


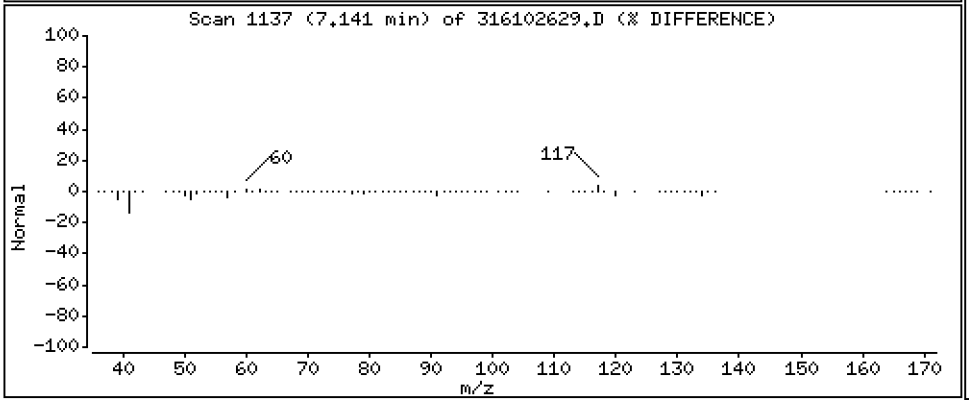












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 108

Date : 26-OCT-2016 19:41

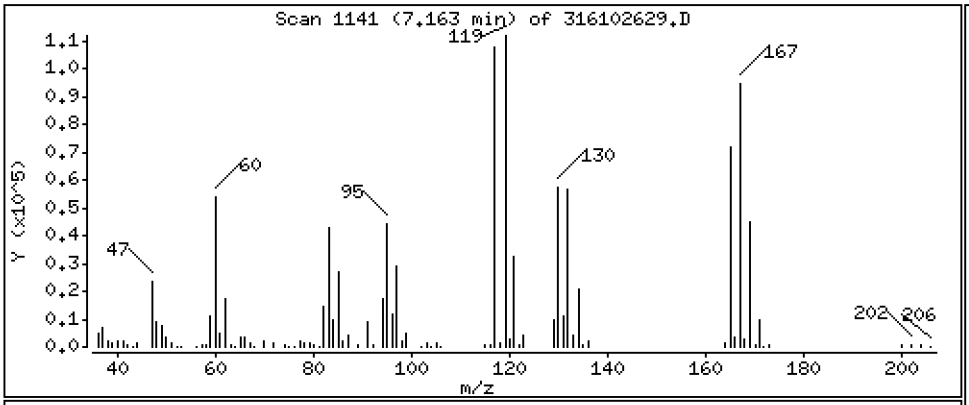
Client ID: Instrument: ms03.i

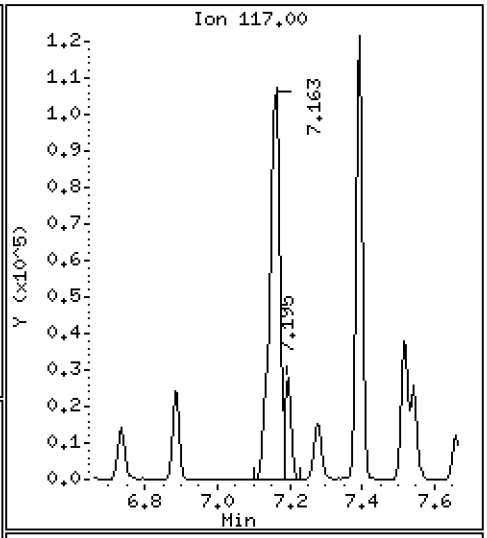
Sample Info: 1801;;1;2;4;;;

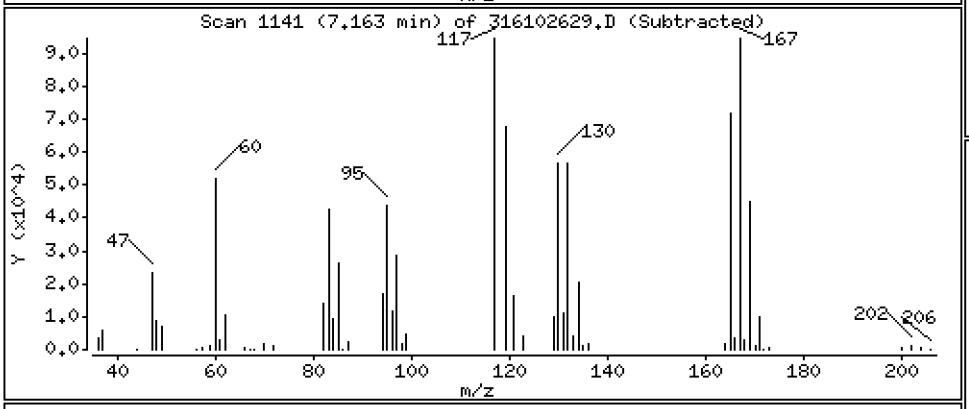
Purge Volume: 5.0 Operator: DD

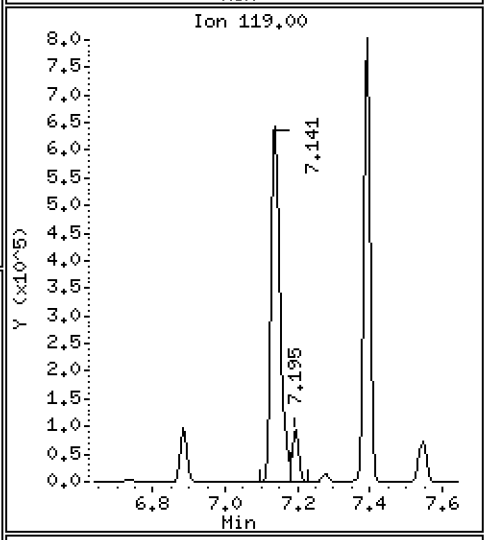
Column phase: DB-VRX Column diameter: 0.25

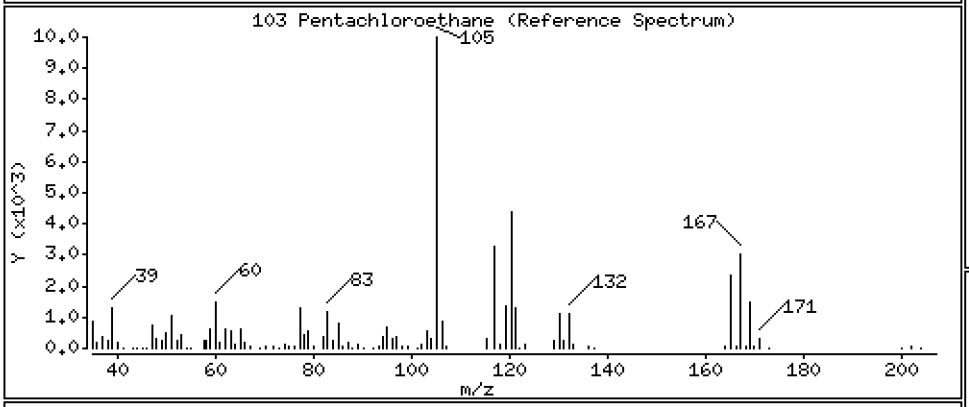
103 Pentachloroethane Concentration: 45.9660 ug/L

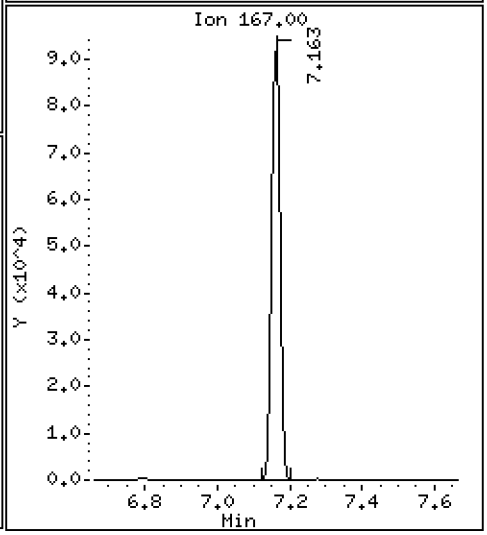


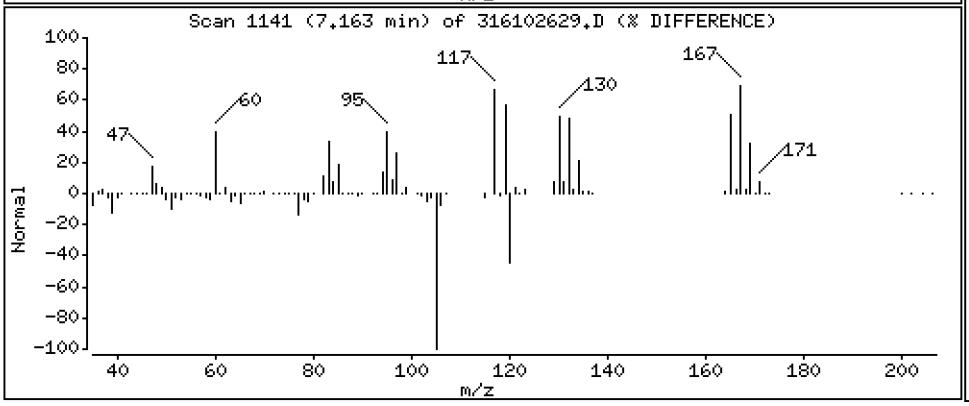












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 109

Date : 26-OCT-2016 19:41

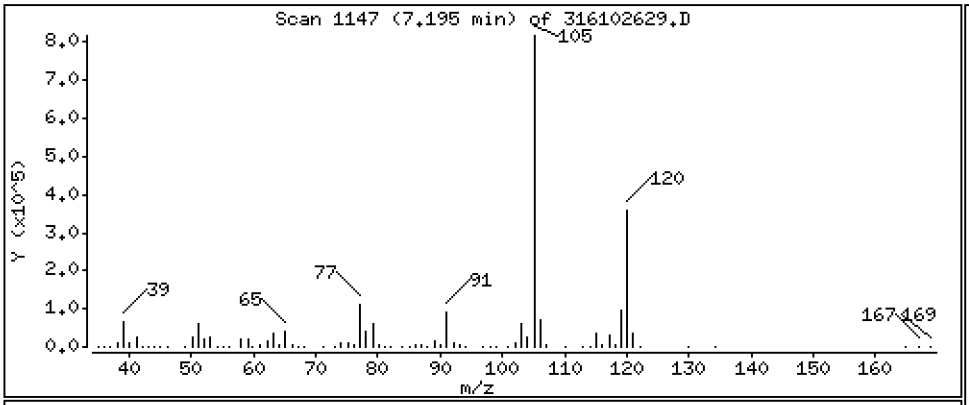
Client ID: Instrument: ms03.i

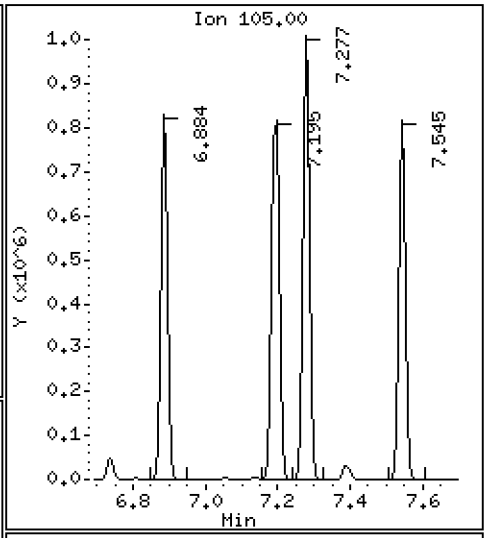
Sample Info: 1801;;1;2;4;;;

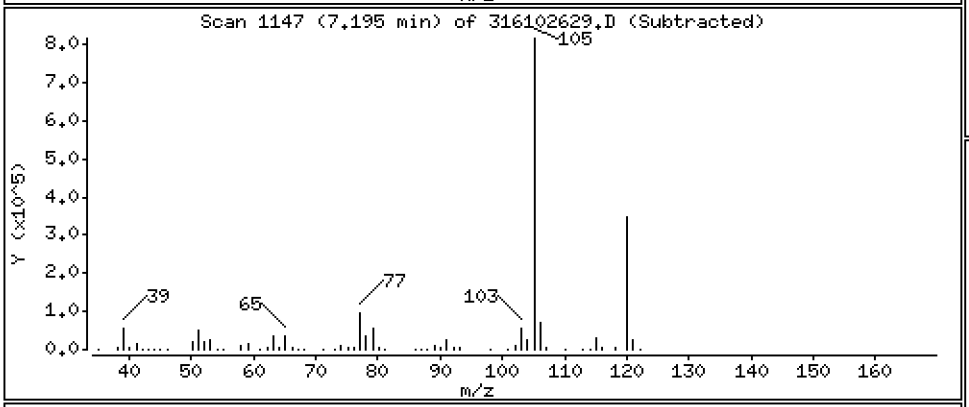
Purge Volume: 5.0 Operator: DD

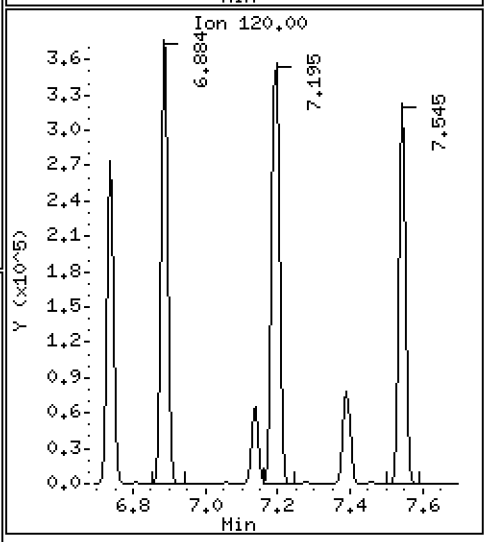
Column phase: DB-VRX Column diameter: 0.25

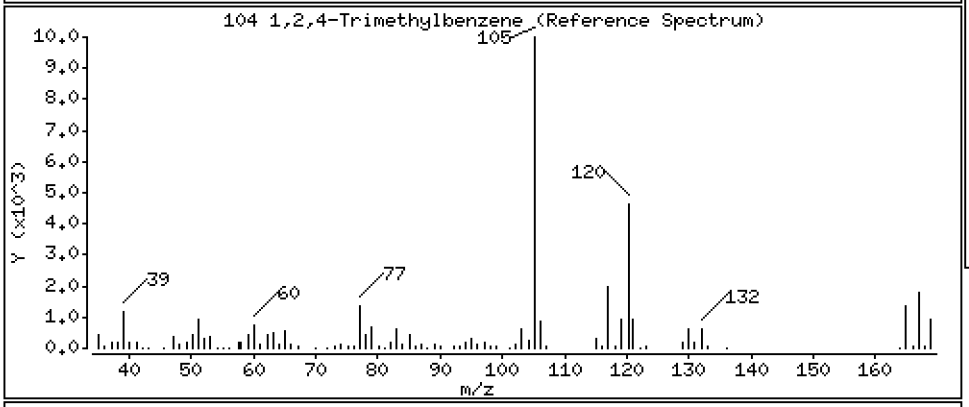
104 1,2,4-Trimethylbenzene Concentration: 50.8889 ug/L

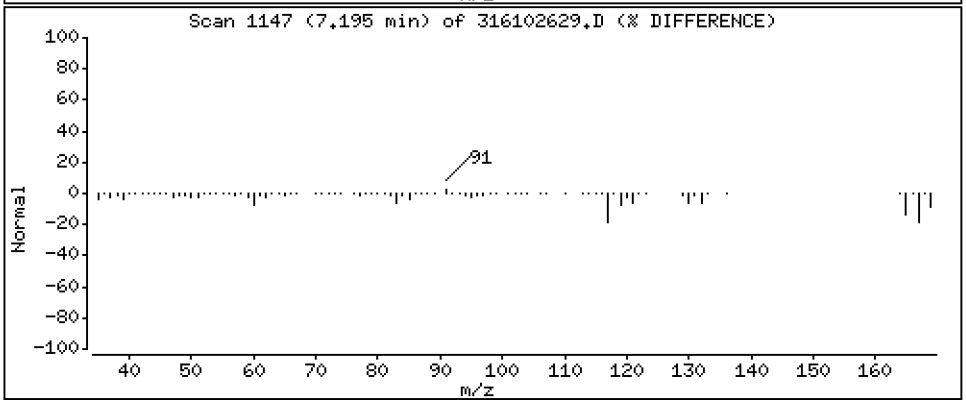












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 110

Date : 26-OCT-2016 19:41

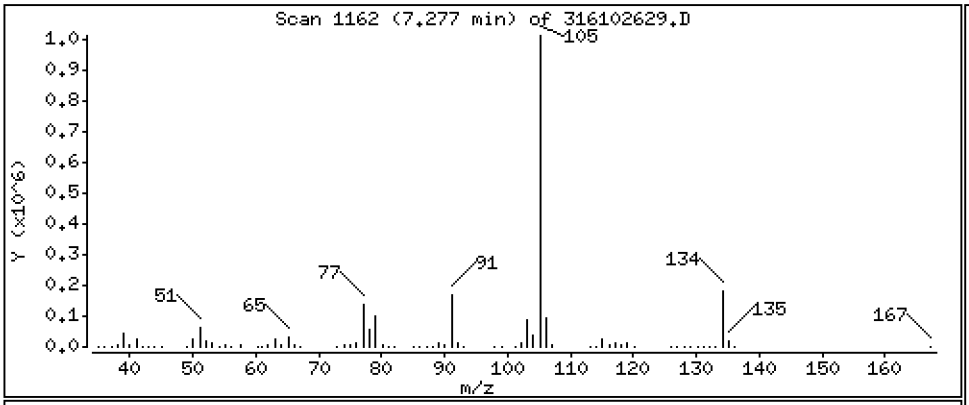
Client ID: Instrument: ms03.i

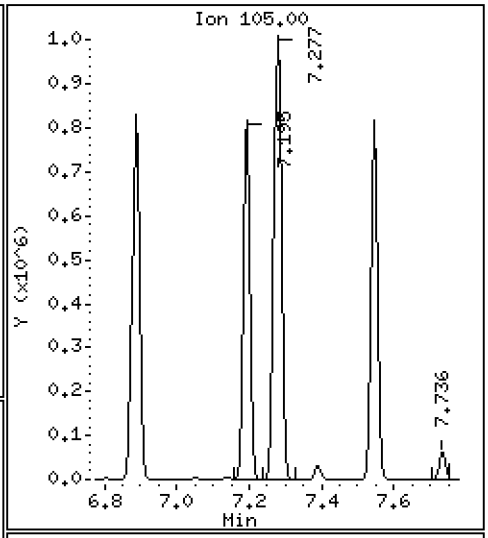
Sample Info: 1801;;1;2;4;;;

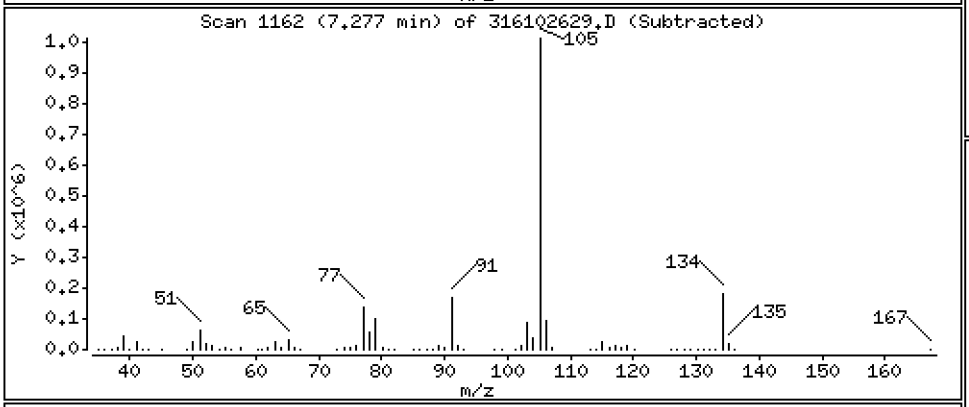
Purge Volume: 5.0 Operator: DD

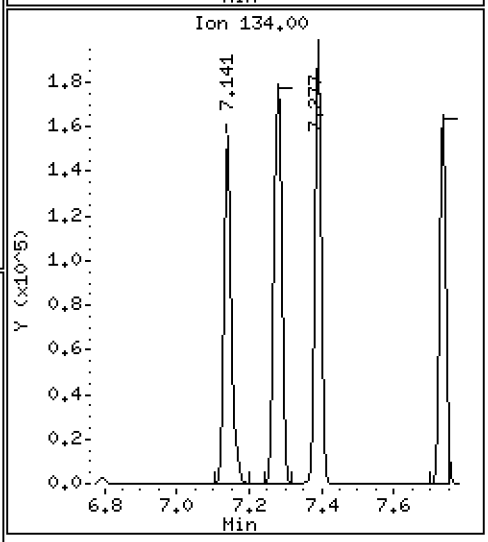
Column phase: DB-VRX Column diameter: 0.25

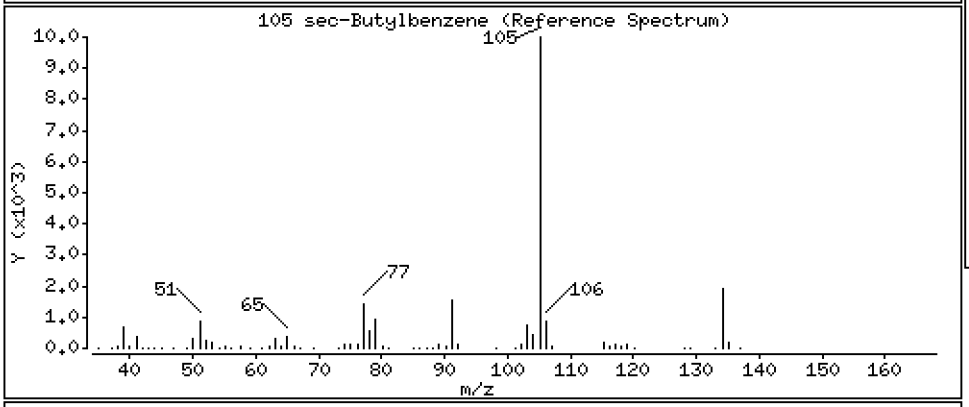
105 sec-Butylbenzene Concentration: 48.6096 ug/L

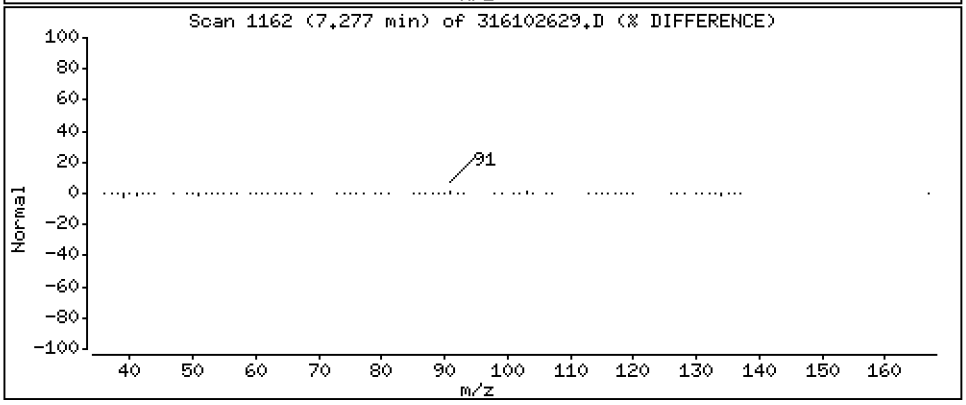












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 111

Date : 26-OCT-2016 19:41

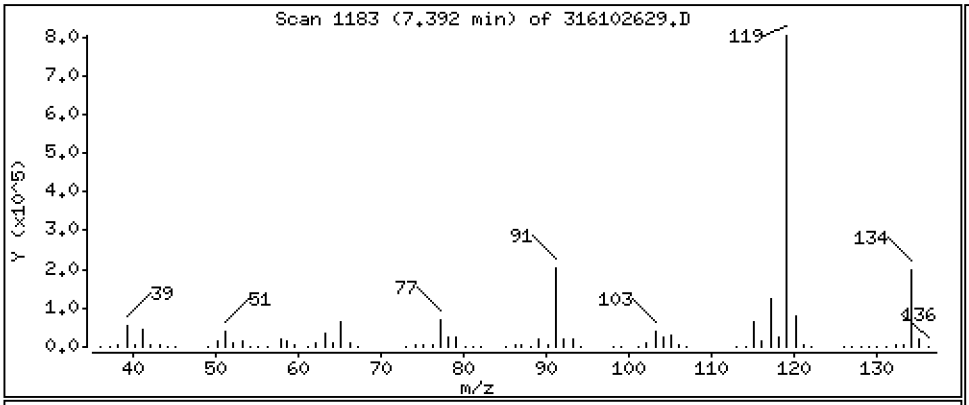
Client ID: Instrument: ms03.i

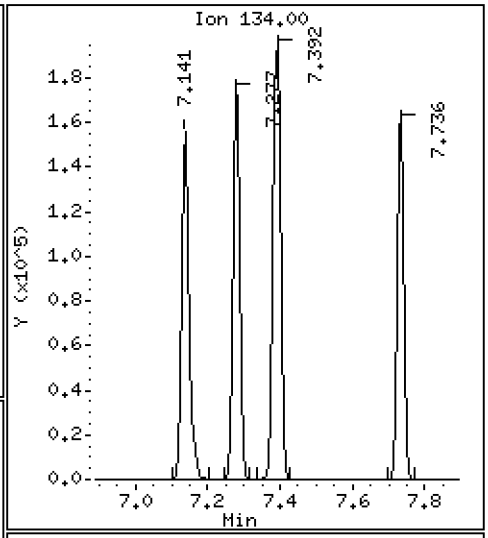
Sample Info: 1801;;1;2;4;;;

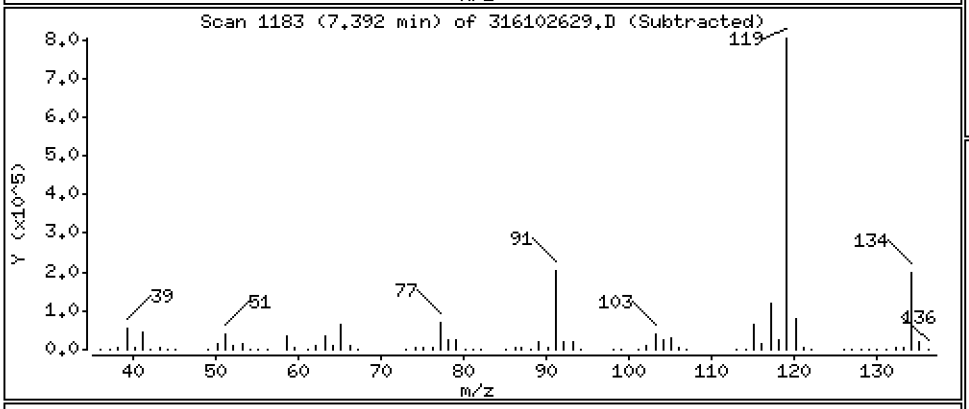
Purge Volume: 5.0 Operator: DD

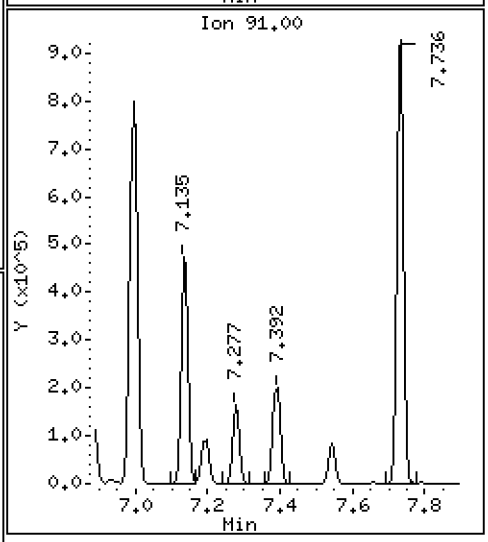
Column phase: DB-VRX Column diameter: 0.25

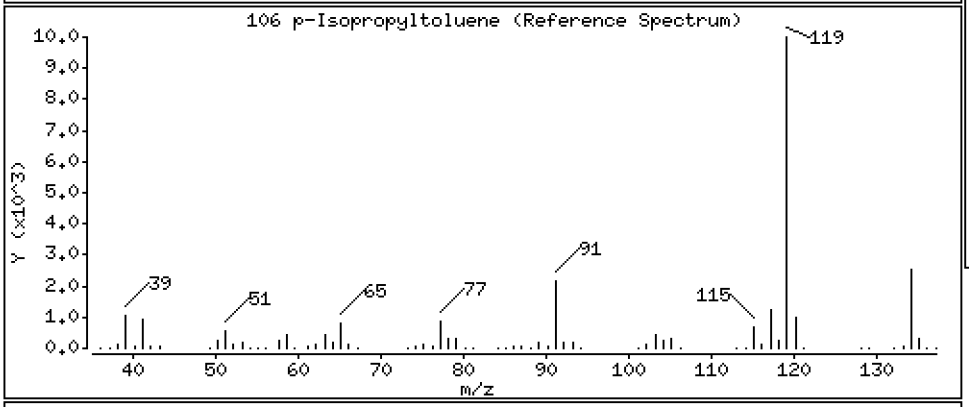
106 p-Isopropyltoluene Concentration: 48.3705 ug/L

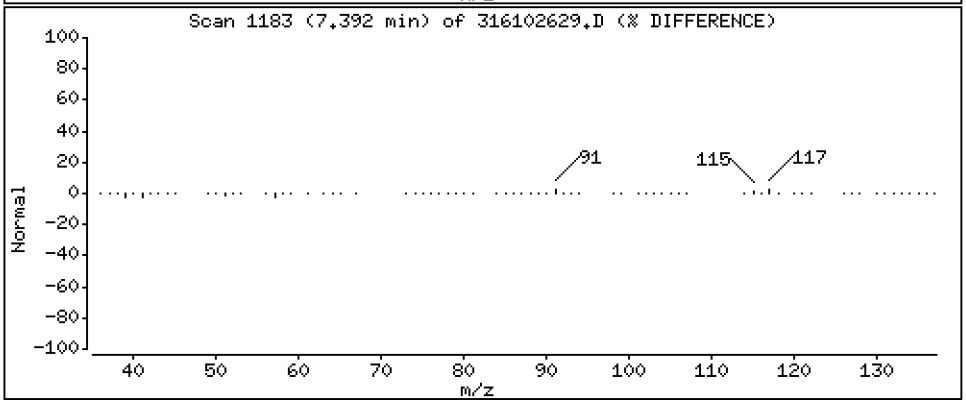












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 112

Date : 26-OCT-2016 19:41

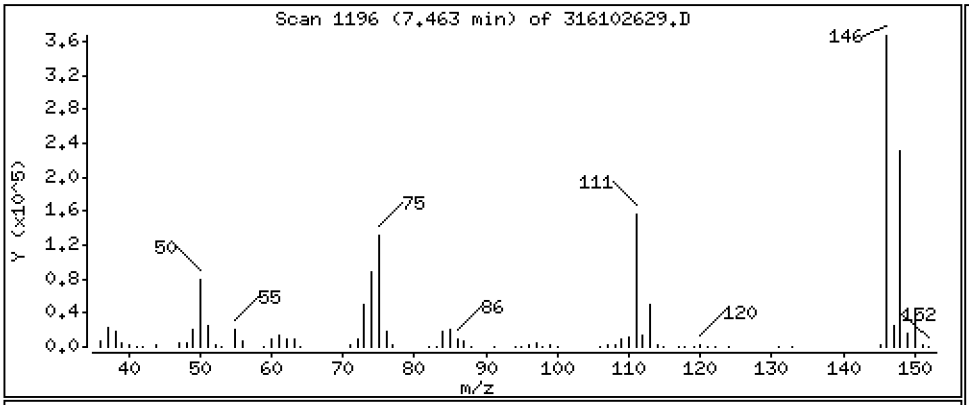
Client ID: Instrument: ms03.i

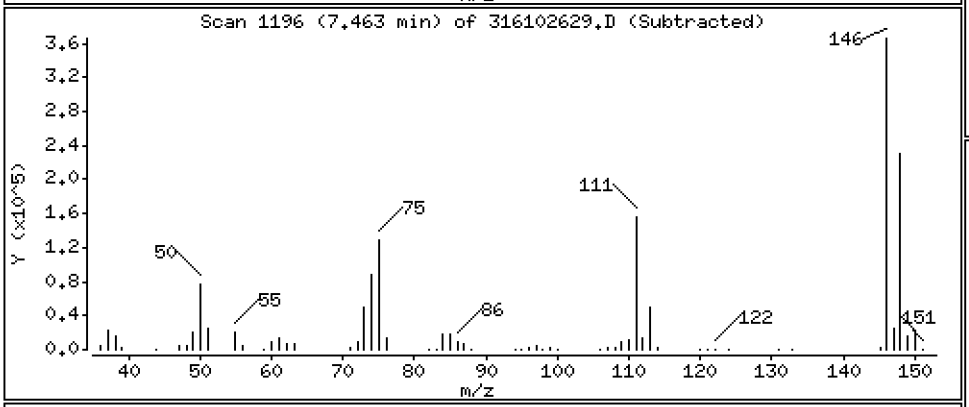
Sample Info: 1801;;1;2;4;;;

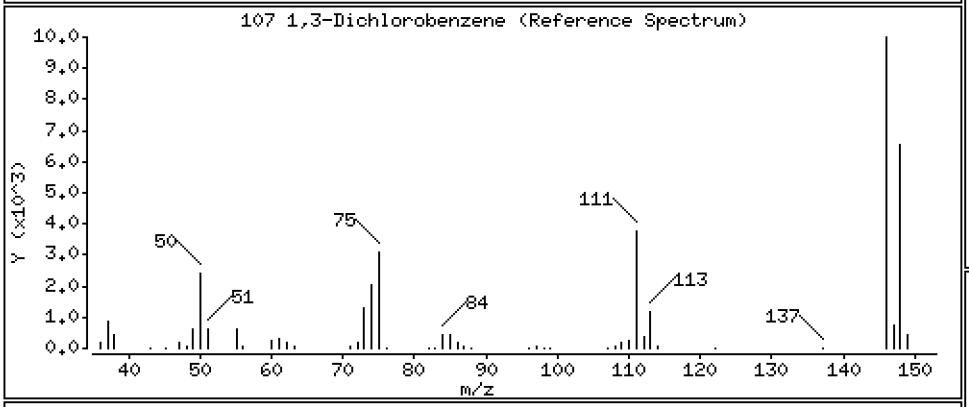
Purge Volume: 5.0 Operator: DD

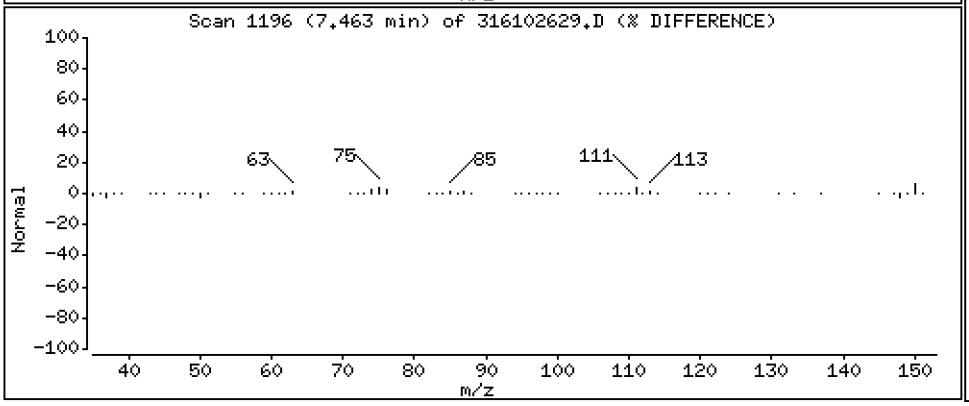
Column phase: DB-VRX Column diameter: 0.25

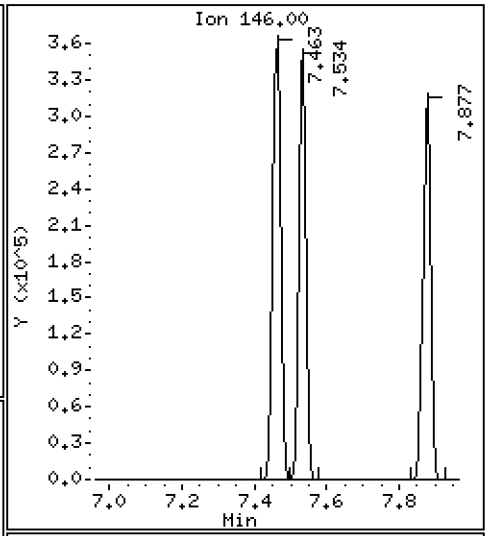
107 1,3-Dichlorobenzene Concentration: 48.4031 ug/L

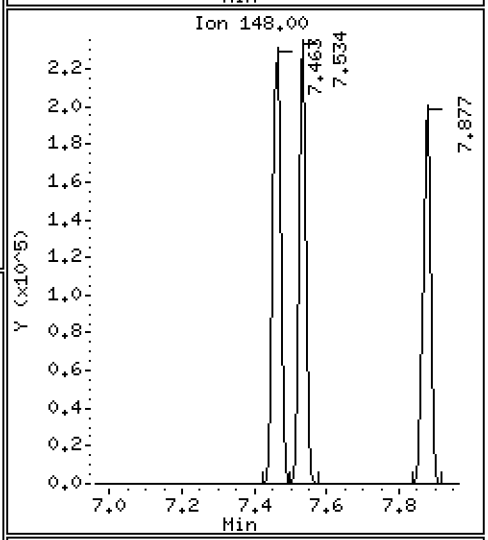


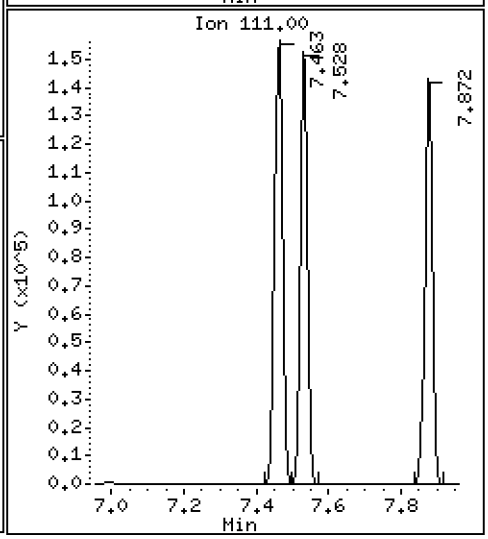












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 113

Date : 26-OCT-2016 19:41

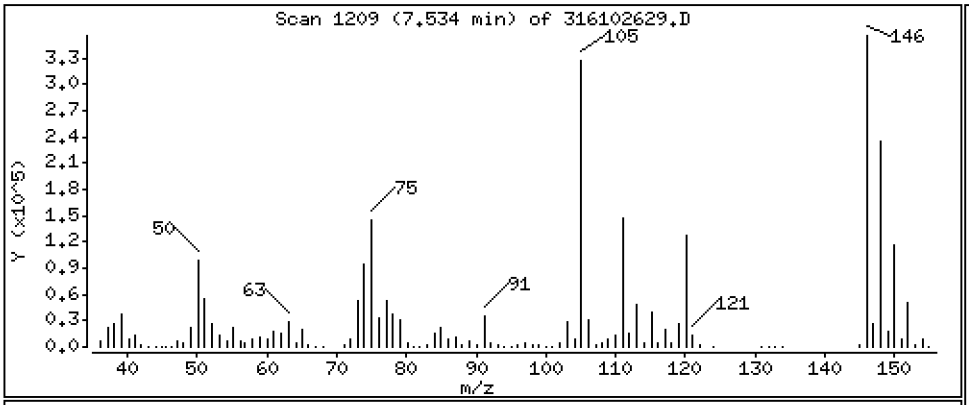
Client ID: Instrument: ms03.i

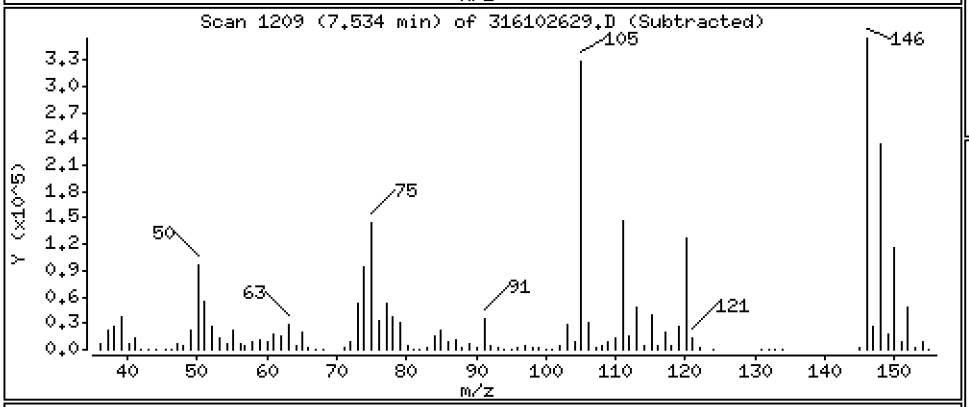
Sample Info: 1801;;1;2;4;;;

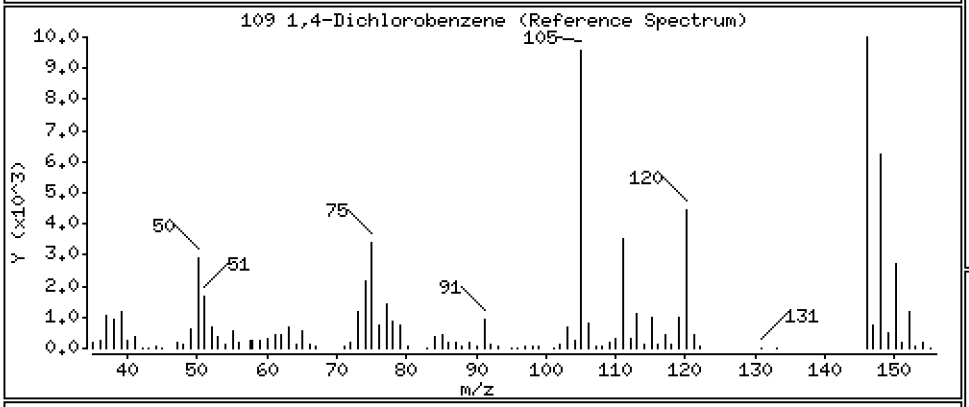
Purge Volume: 5.0 Operator: DD

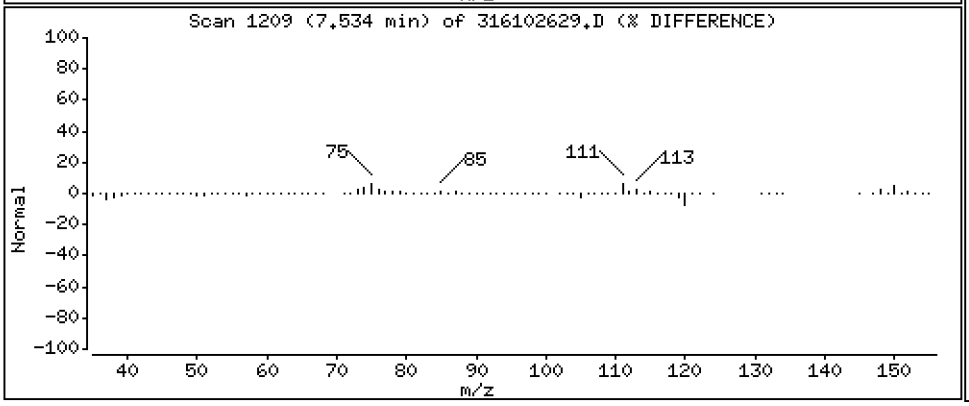
Column phase: DB-VRX Column diameter: 0.25

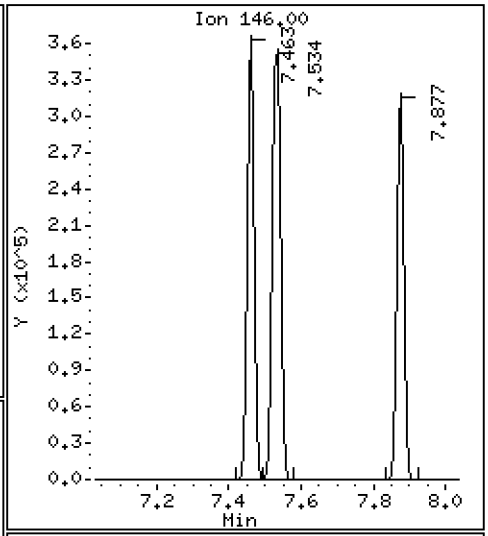
109 1,4-Dichlorobenzene Concentration: 48.3310 ug/L

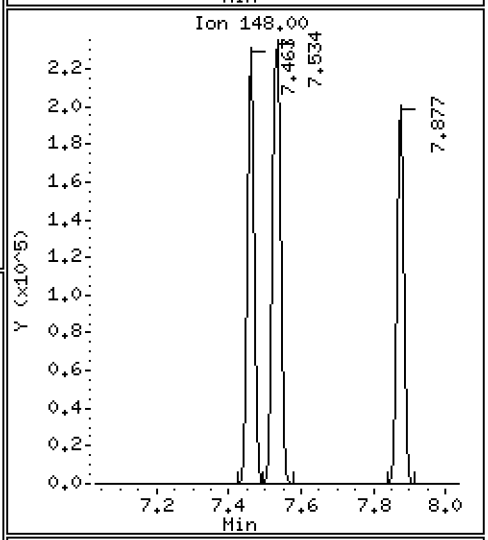


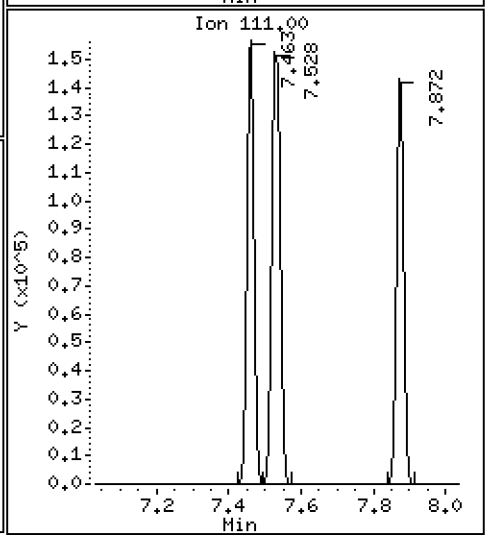












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 114

Date : 26-OCT-2016 19:41

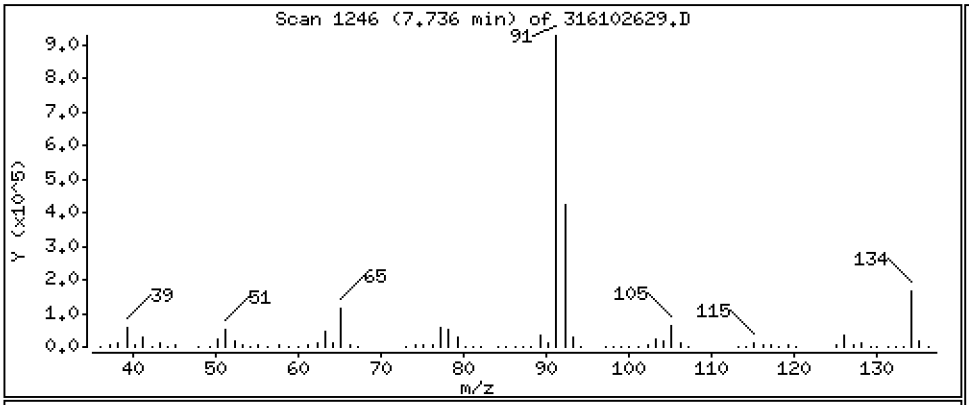
Client ID: Instrument: ms03.i

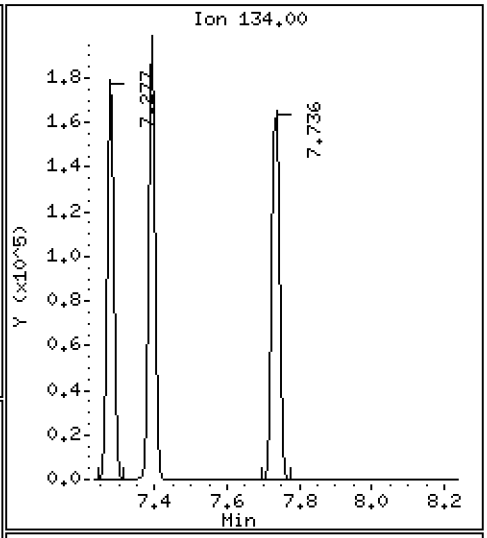
Sample Info: 1801;;1;2;4;;;

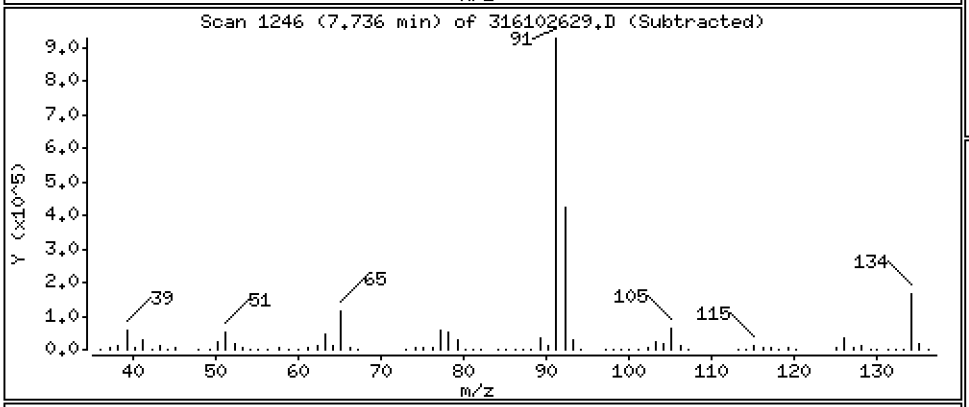
Purge Volume: 5.0 Operator: DD

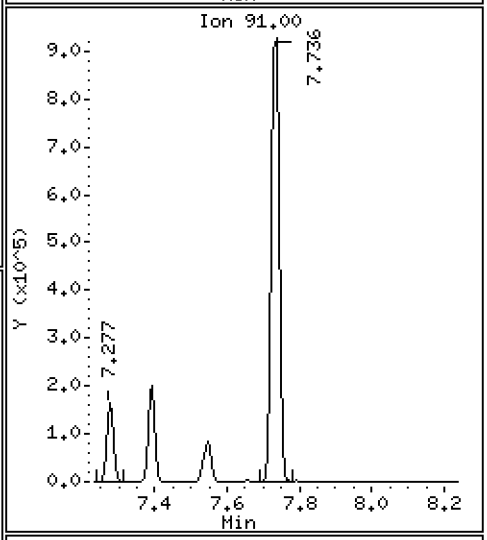
Column phase: DB-VRX Column diameter: 0.25

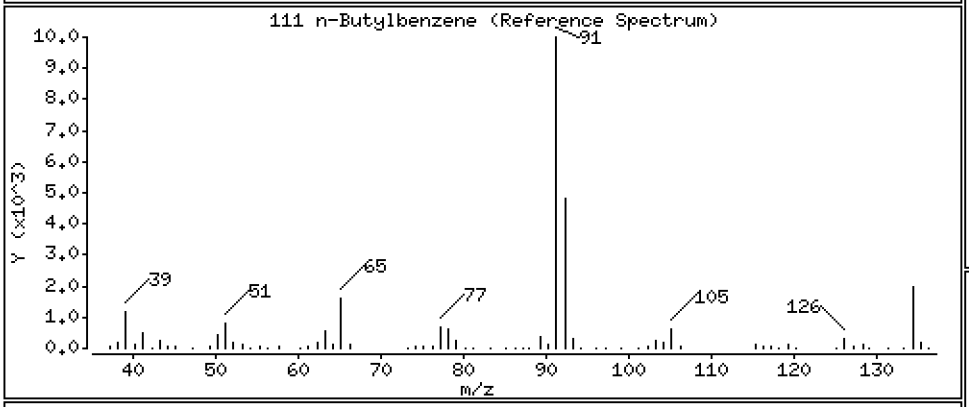
111 n-Butylbenzene Concentration: 46.3889 ug/L

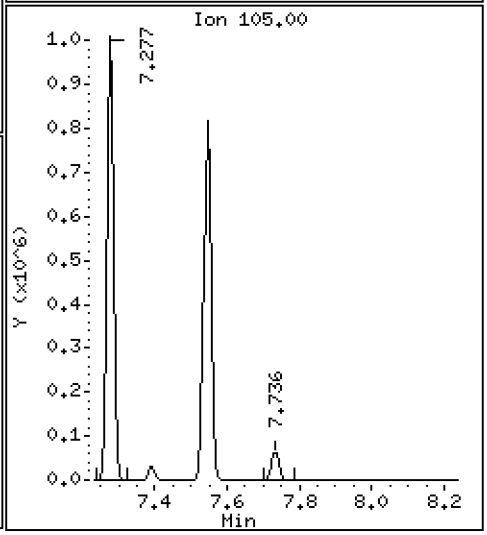


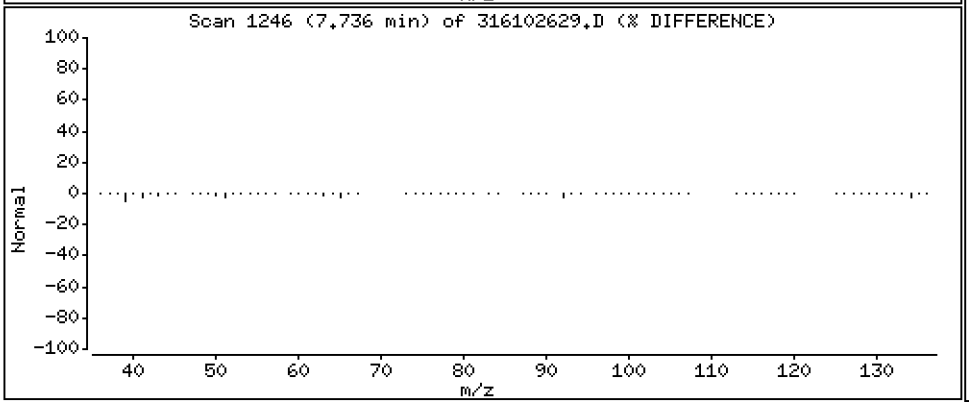












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 115

Date : 26-OCT-2016 19:41

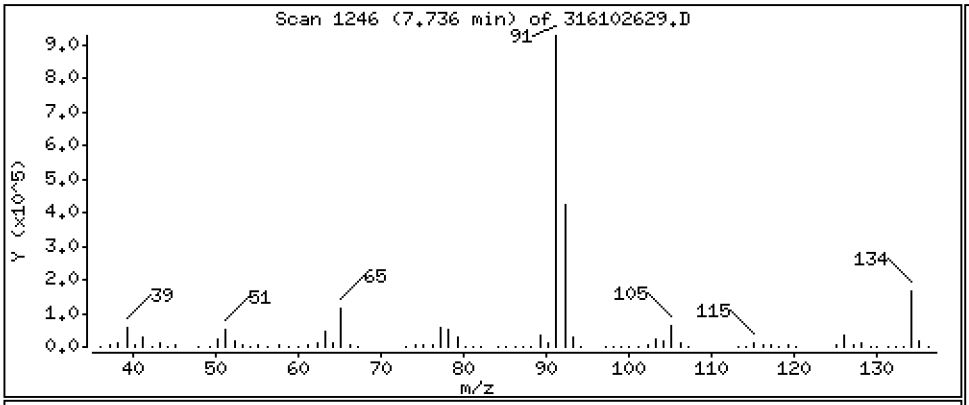
Client ID: Instrument: ms03.i

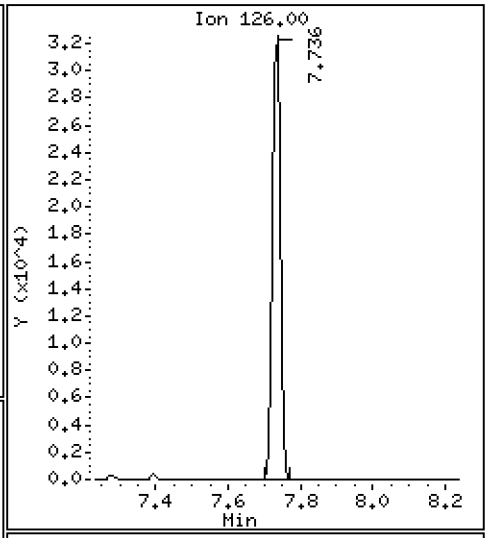
Sample Info: 1801;;1;2;4;;;

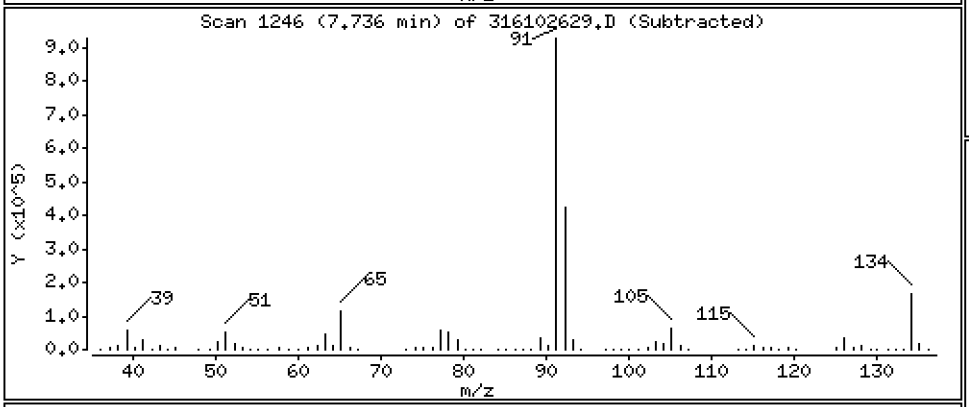
Purge Volume: 5.0 Operator: DD

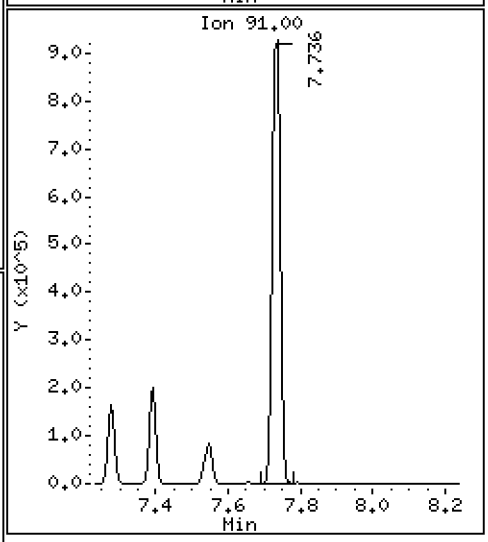
Column phase: DB-VRX Column diameter: 0.25

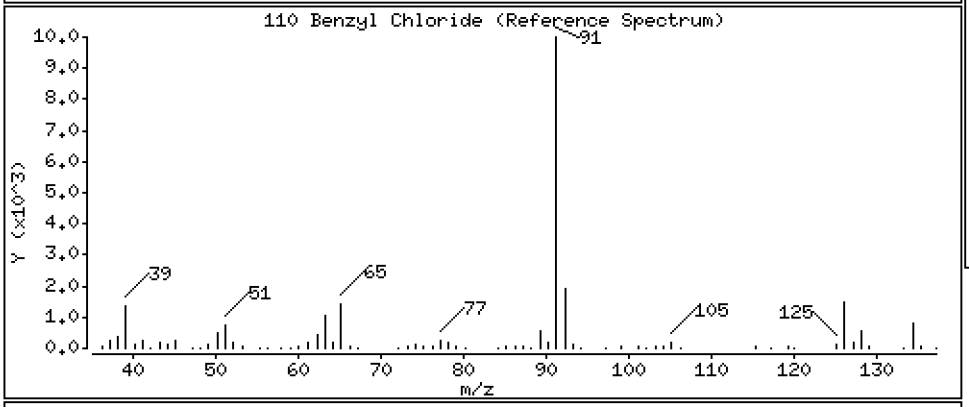
110 Benzyl Chloride Concentration: 31.6476 ug/L

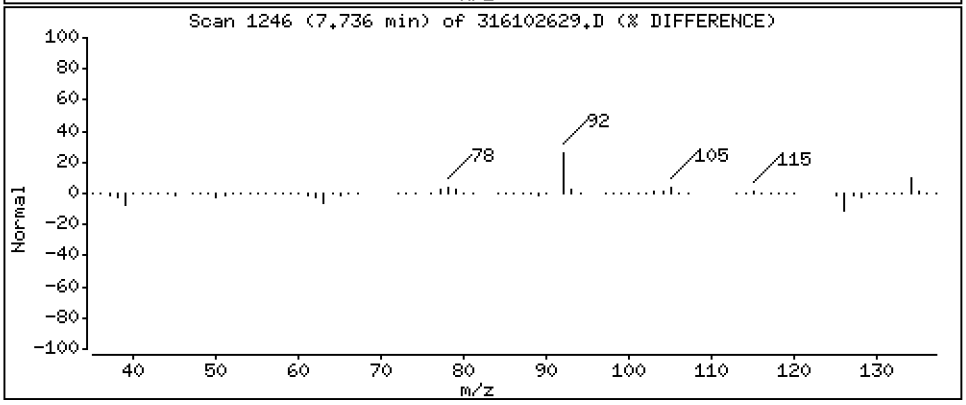












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 116

Date : 26-OCT-2016 19:41

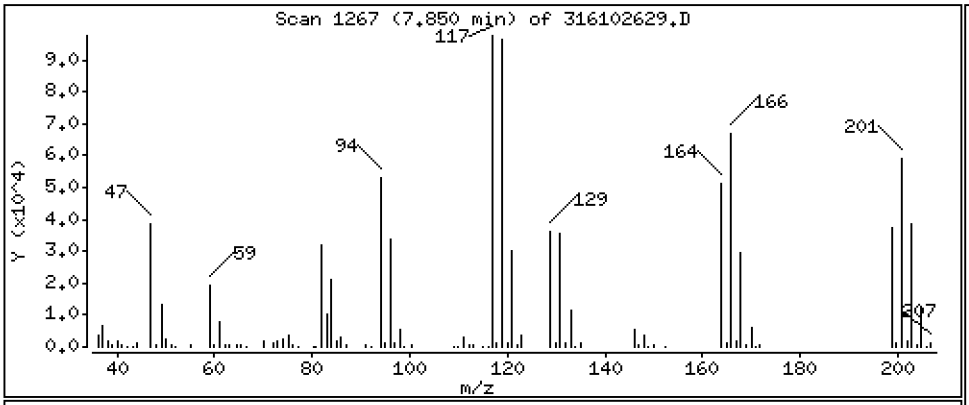
Client ID: Instrument: ms03.i

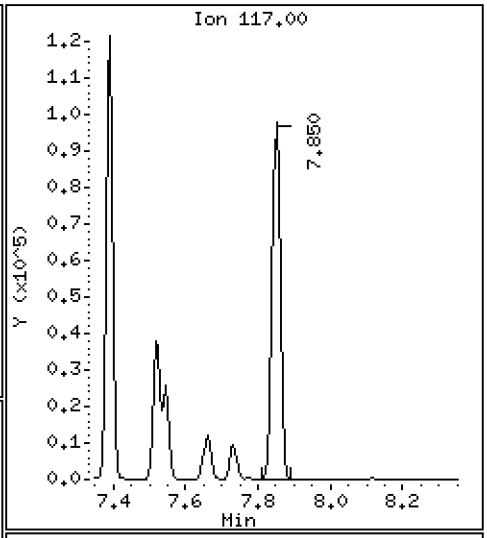
Sample Info: 1801;;1;2;4;;;

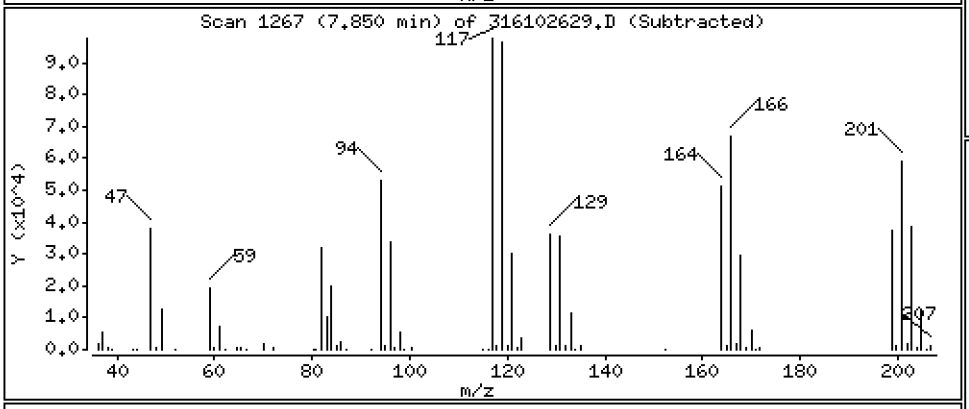
Purge Volume: 5.0 Operator: DD

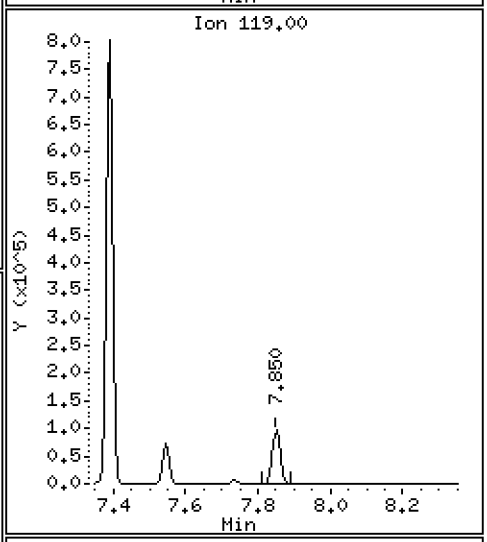
Column phase: DB-VRX Column diameter: 0.25

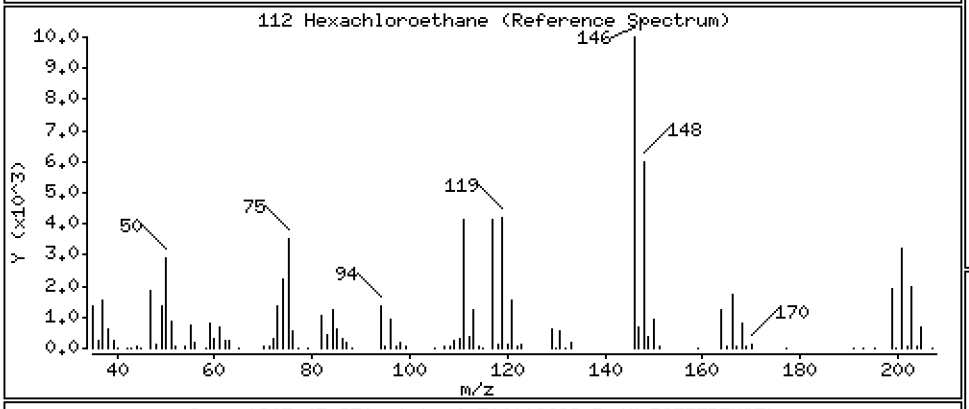
112 Hexachloroethane Concentration: 43.4547 ug/L

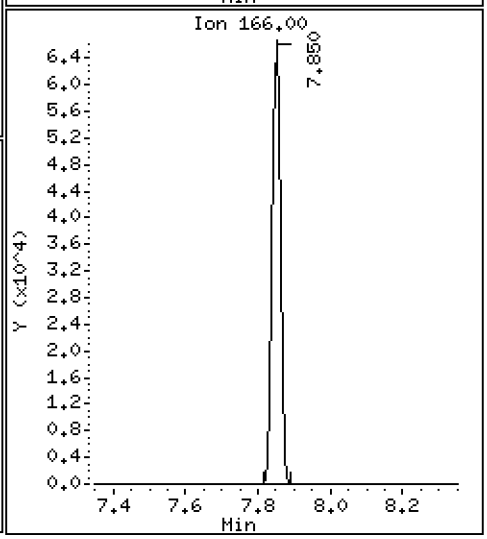


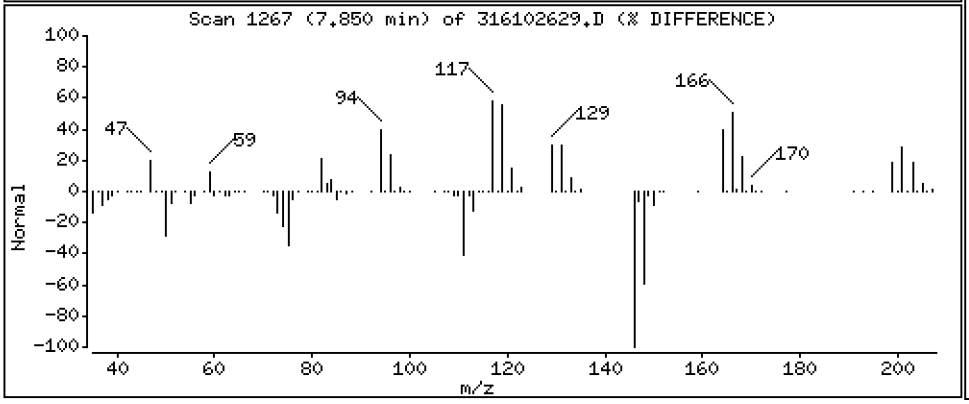












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 117

Date : 26-OCT-2016 19:41

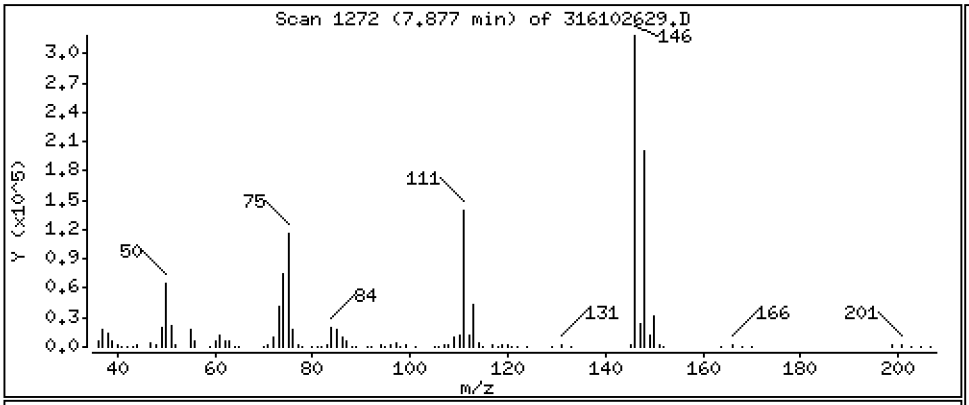
Client ID: Instrument: ms03.i

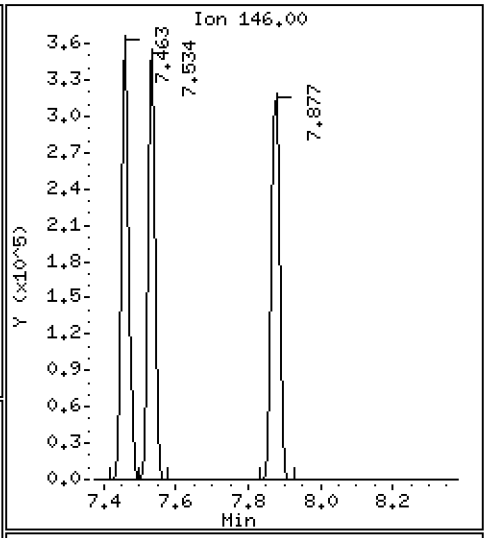
Sample Info: 1801;;1;2;4;;;

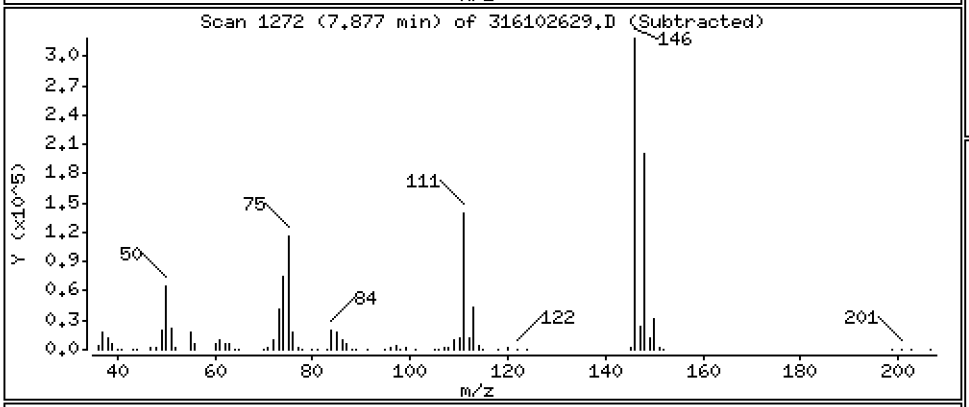
Purge Volume: 5.0 Operator: DD

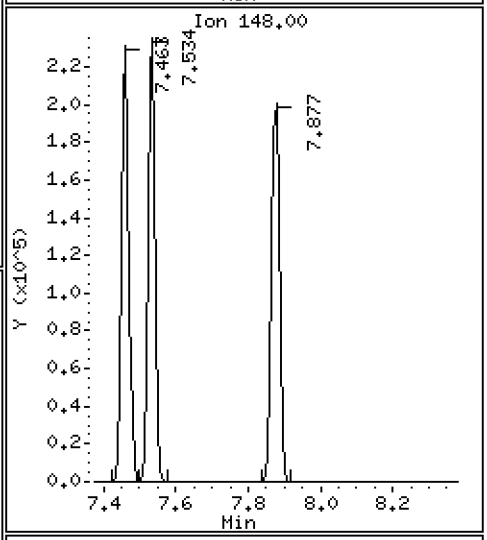
Column phase: DB-VRX Column diameter: 0.25

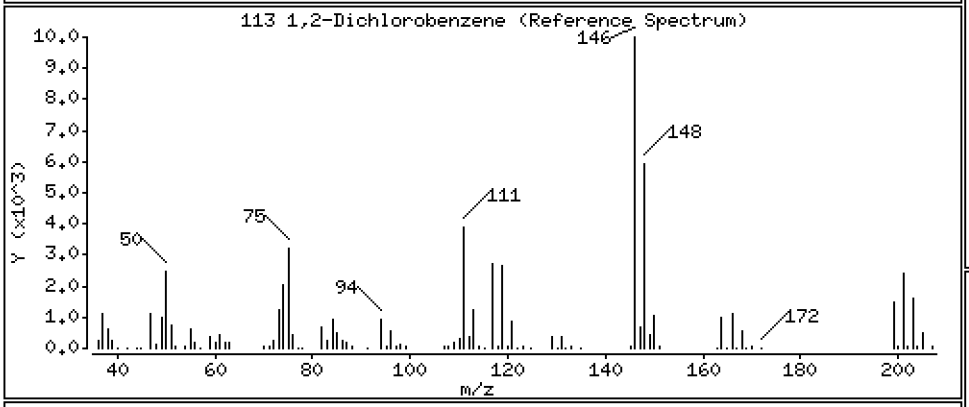
113 1,2-Dichlorobenzene Concentration: 48.3144 ug/L

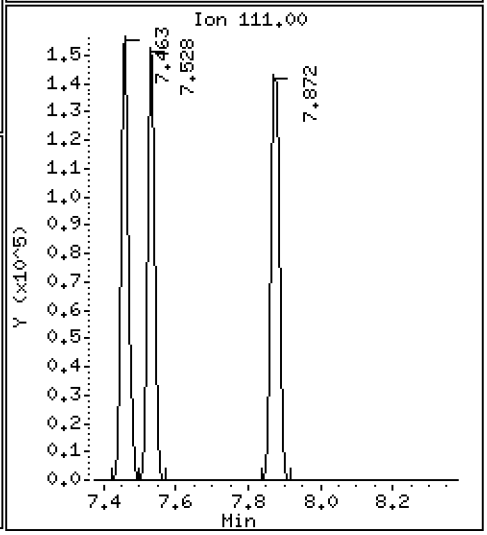


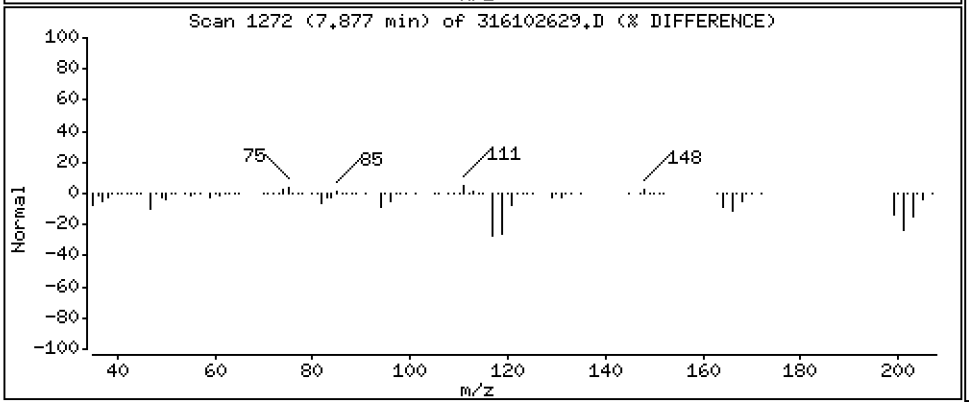












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 118

Date : 26-OCT-2016 19:41

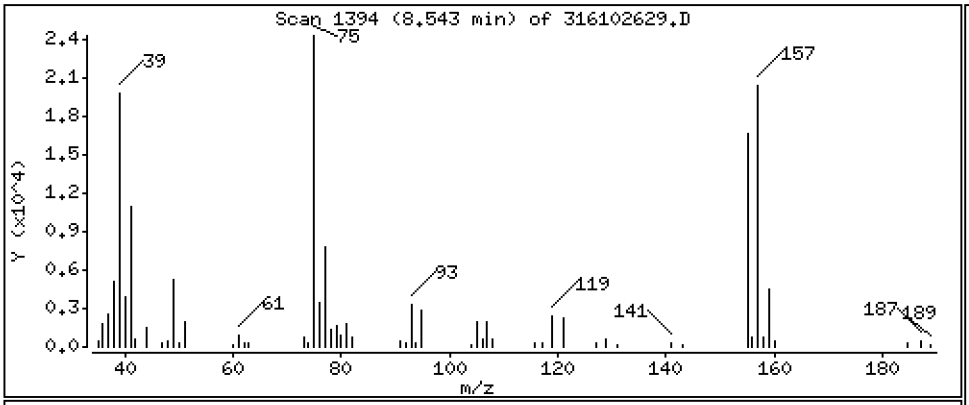
Client ID: Instrument: ms03.i

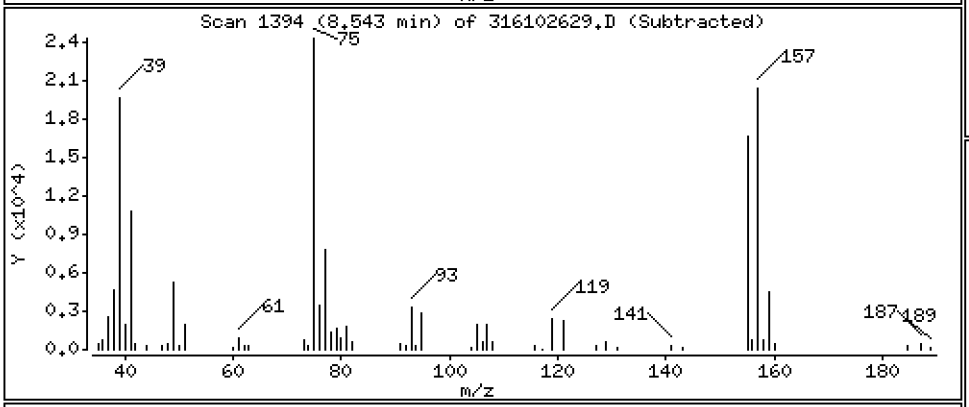
Sample Info: 1801;;1;2;4;;;

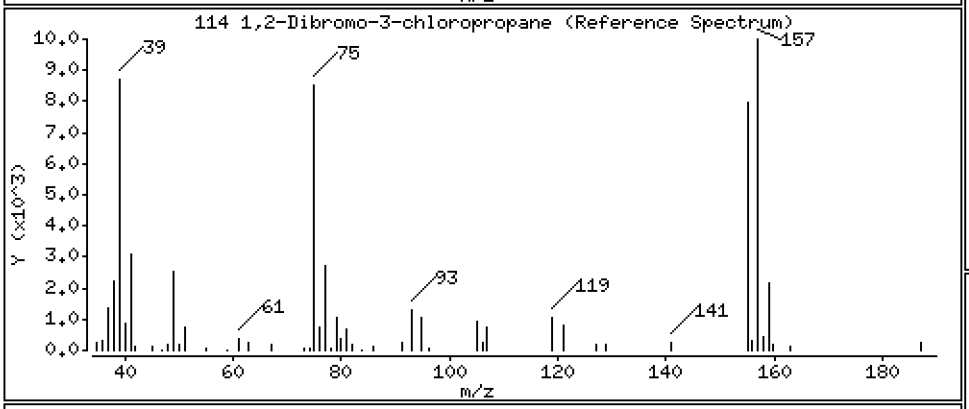
Purge Volume: 5.0 Operator: DD

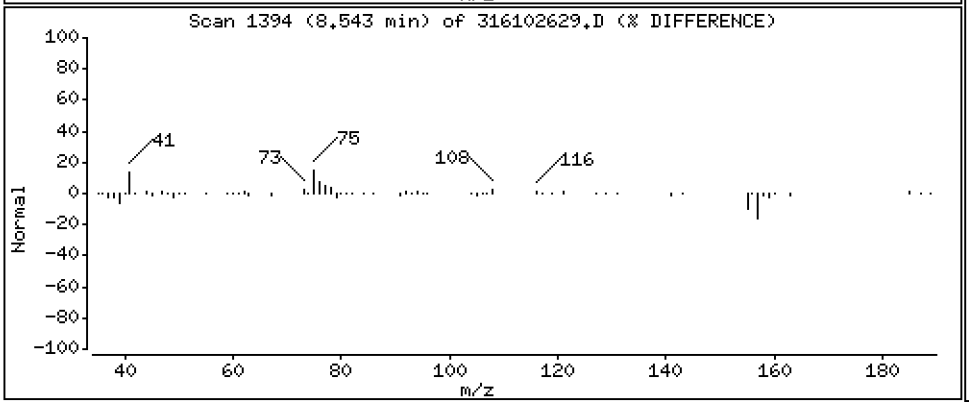
Column phase: DB-VRX Column diameter: 0.25

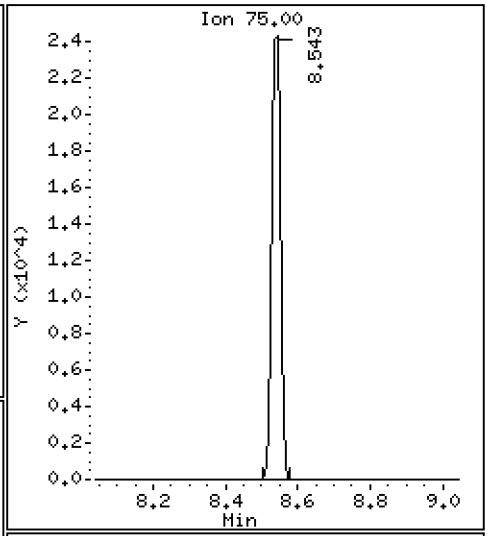
114 1,2-Dibromo-3-chloropropane Concentration: 47.0975 ug/L

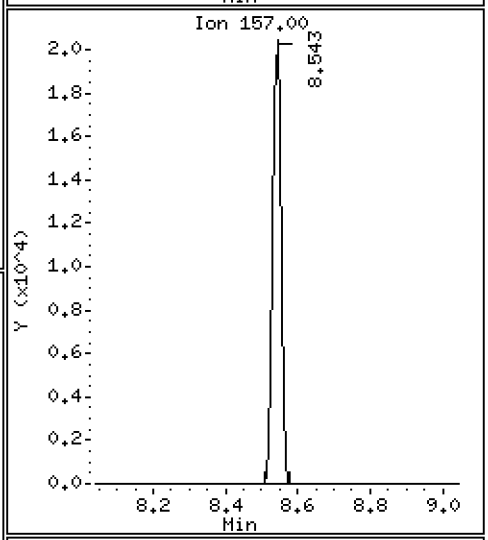


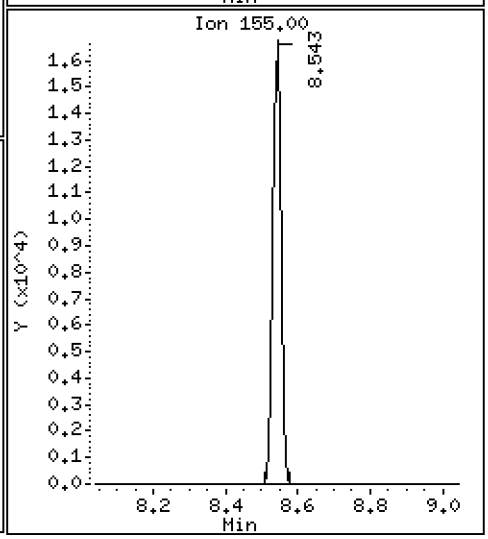












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 119

Date : 26-OCT-2016 19:41

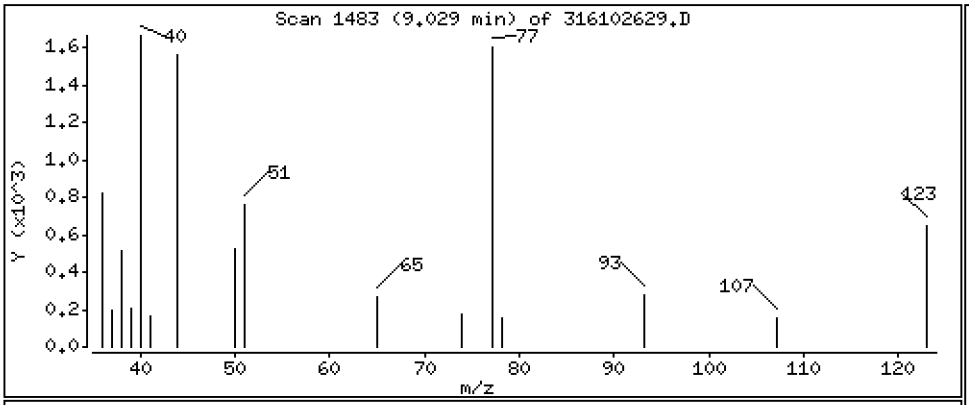
Client ID: Instrument: ms03.i

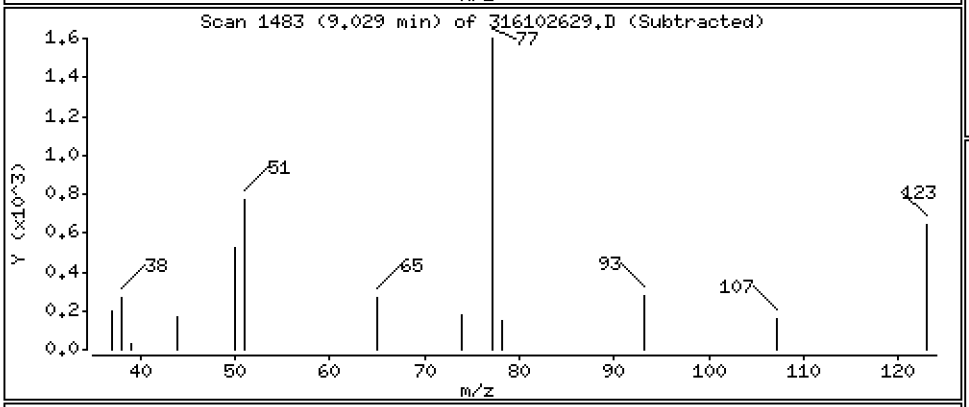
Sample Info: 1801;;1;2;4;;;

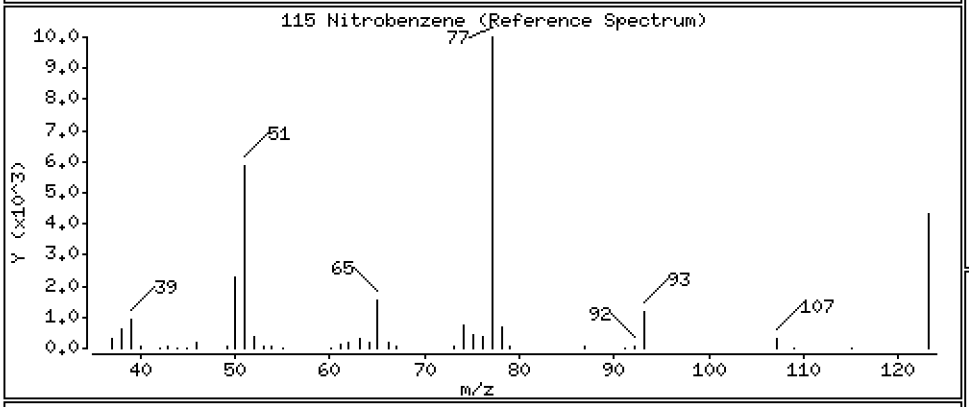
Purge Volume: 5.0 Operator: DD

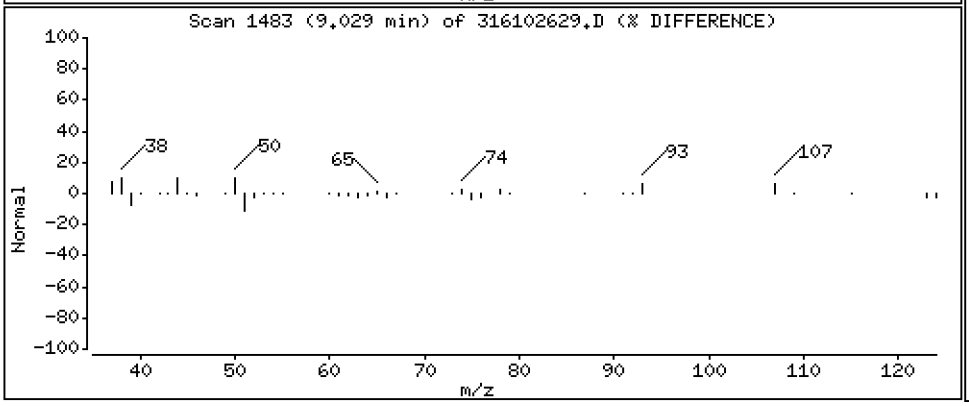
Column phase: DB-VRX Column diameter: 0.25

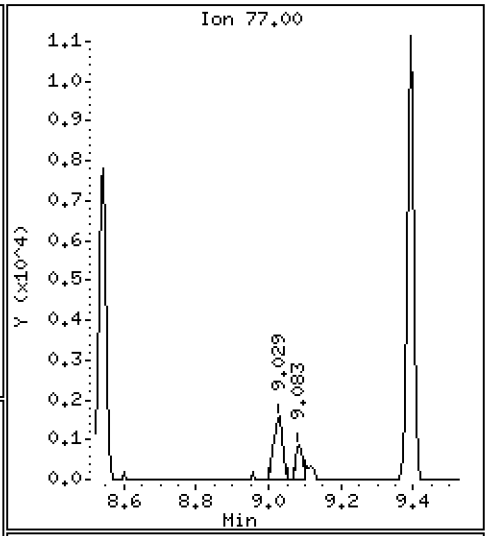
115 Nitrobenzene Concentration: 259.114 ug/L

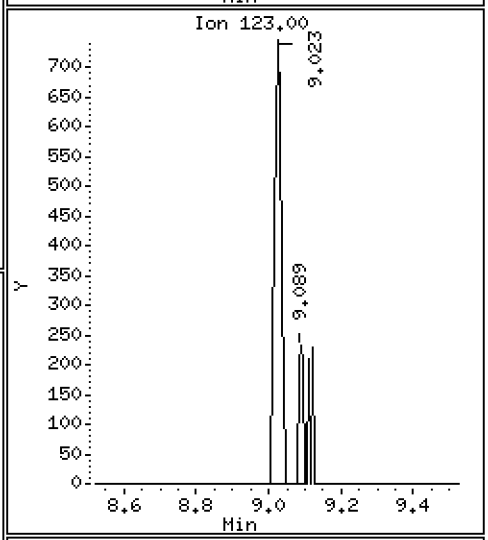


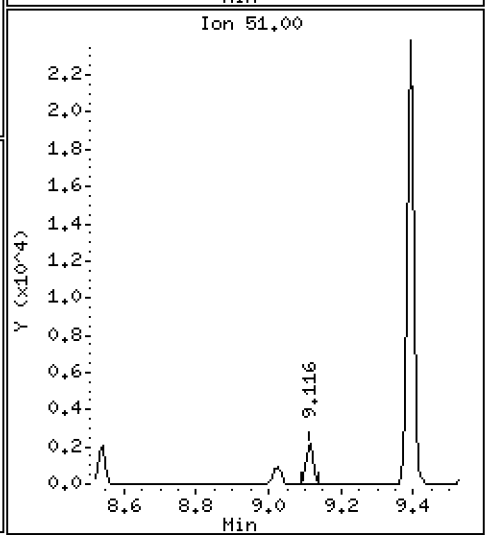












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 120

Date : 26-OCT-2016 19:41

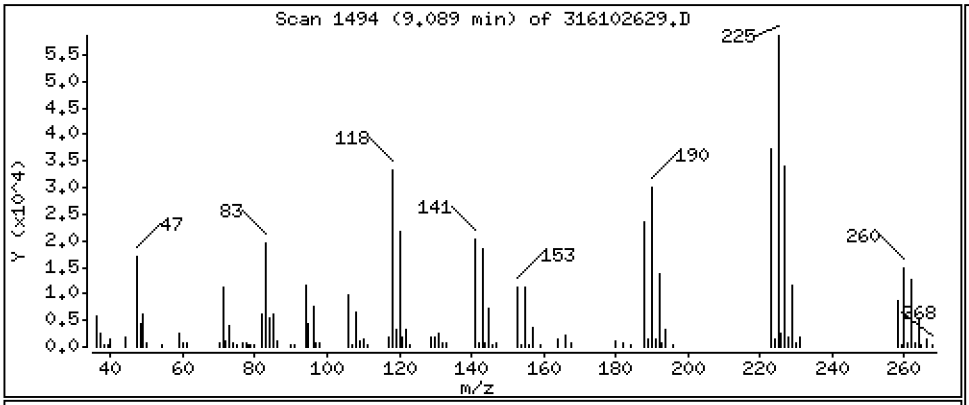
Client ID: Instrument: ms03.i

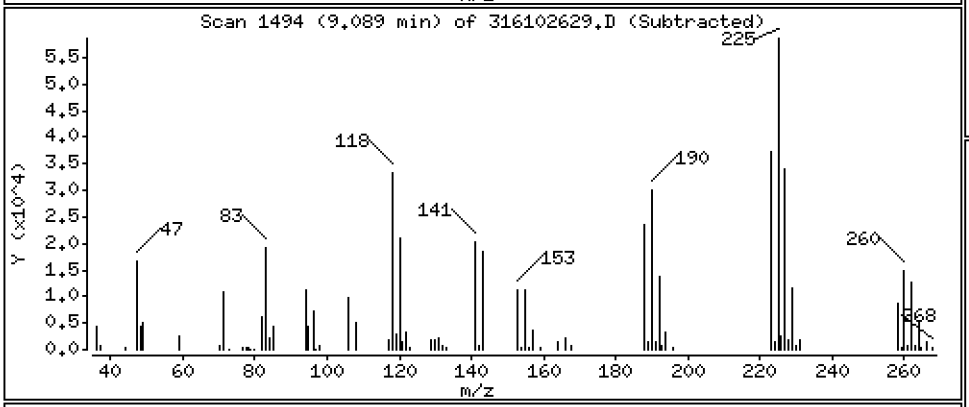
Sample Info: 1801;;1;2;4;;;

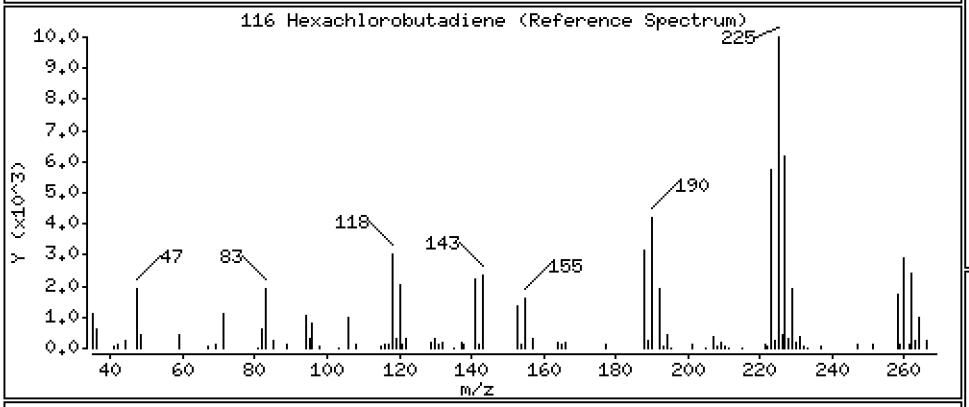
Purge Volume: 5.0 Operator: DD

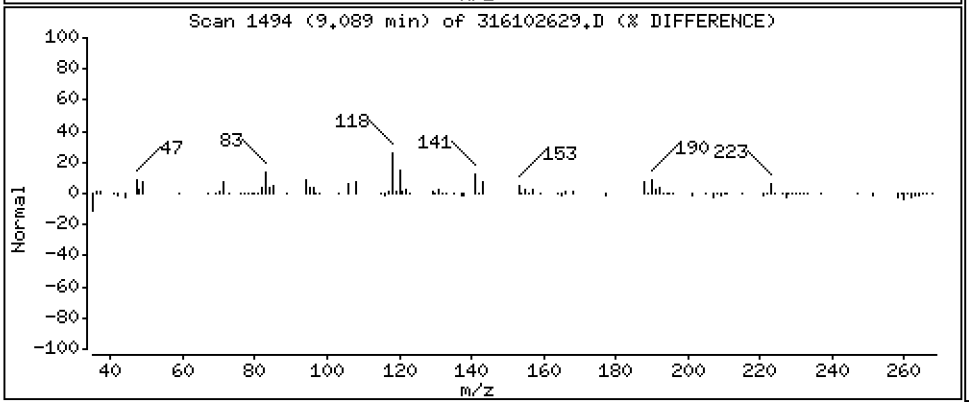
Column phase: DB-VRX Column diameter: 0.25

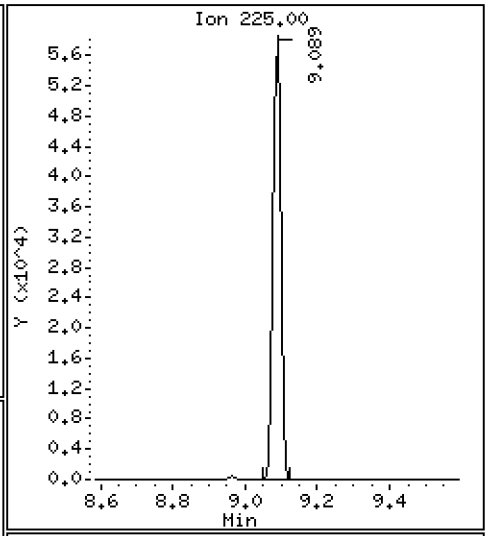
116 Hexachlorobutadiene Concentration: 44.8910 ug/L

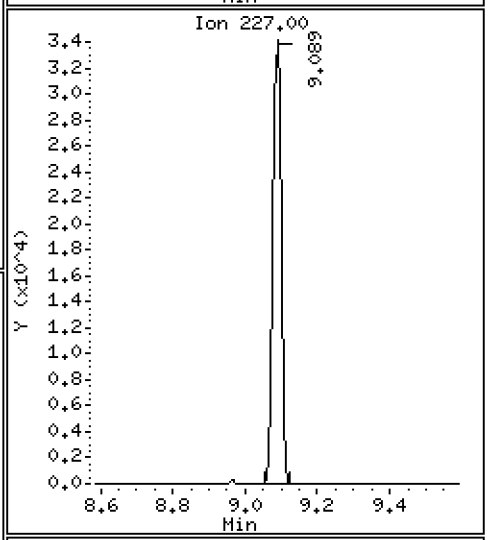


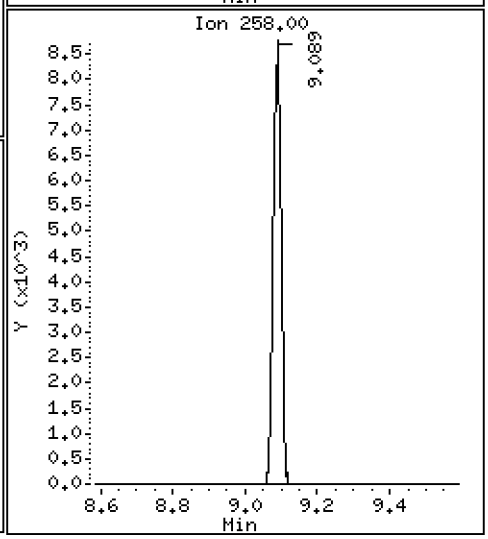












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 121

Date : 26-OCT-2016 19:41

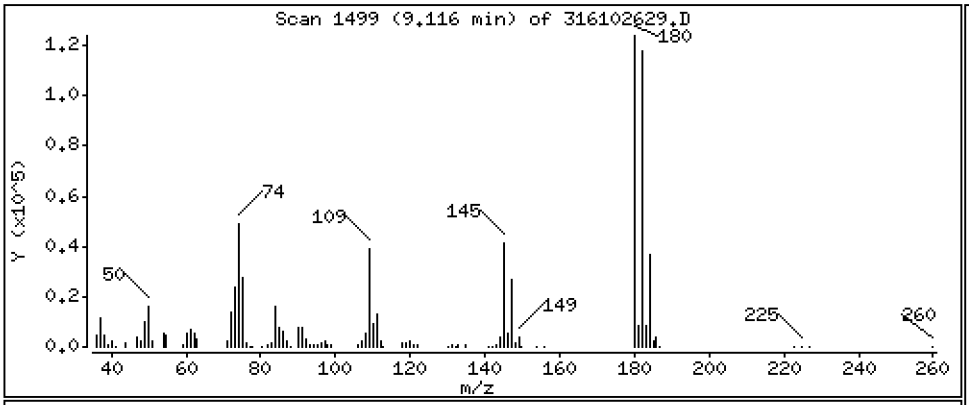
Client ID: Instrument: ms03.i

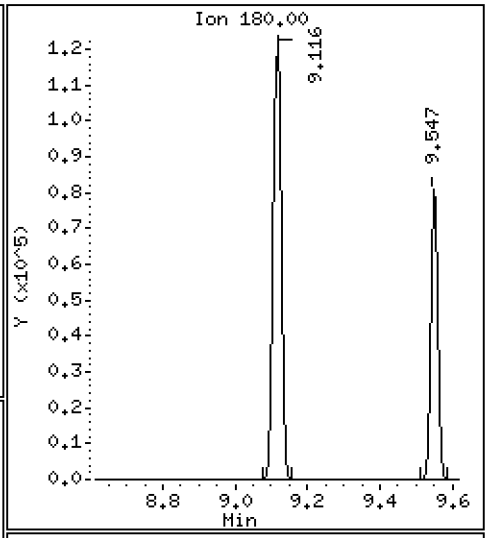
Sample Info: 1801;;1;2;4;;;

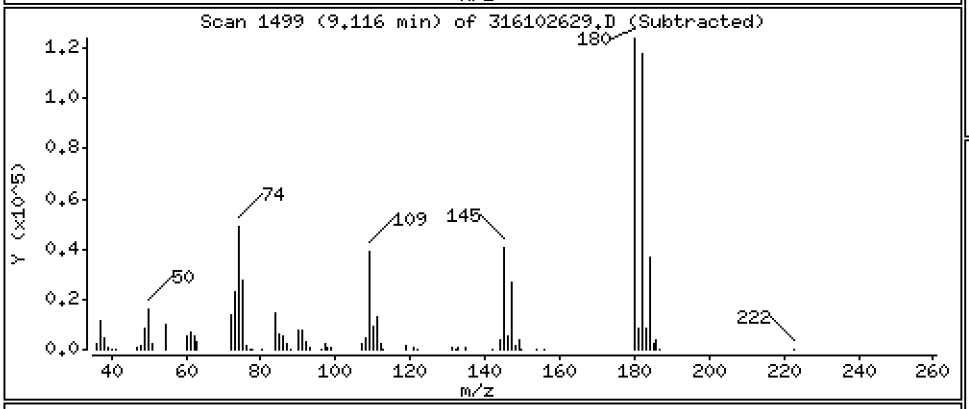
Purge Volume: 5.0 Operator: DD

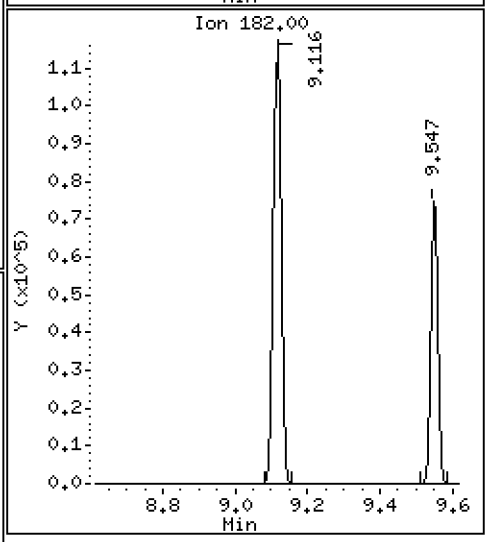
Column phase: DB-VRX Column diameter: 0.25

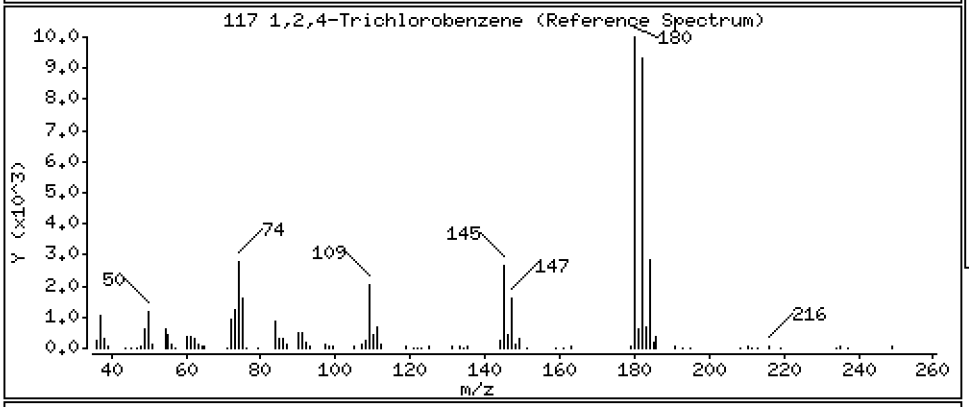
117 1,2,4-Trichlorobenzene Concentration: 42.4395 ug/L

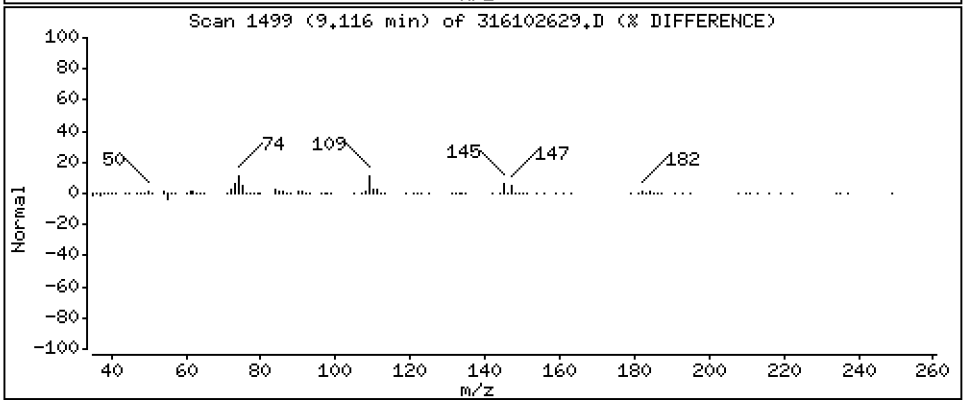












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 122

Date : 26-OCT-2016 19:41

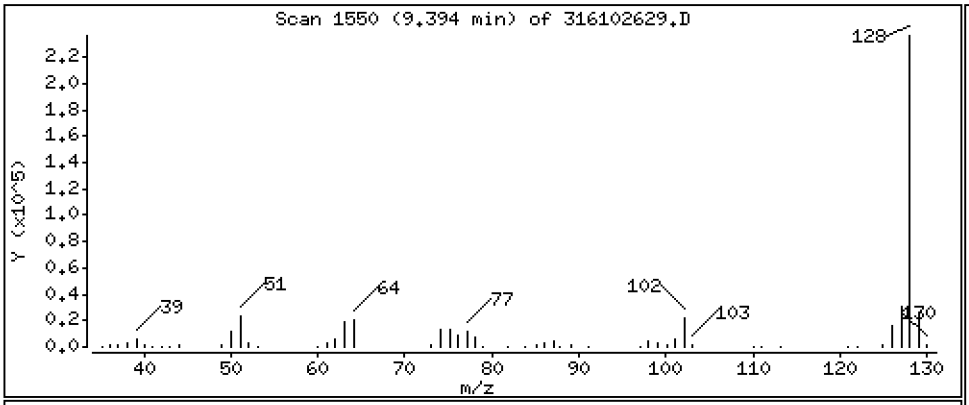
Client ID: Instrument: ms03.i

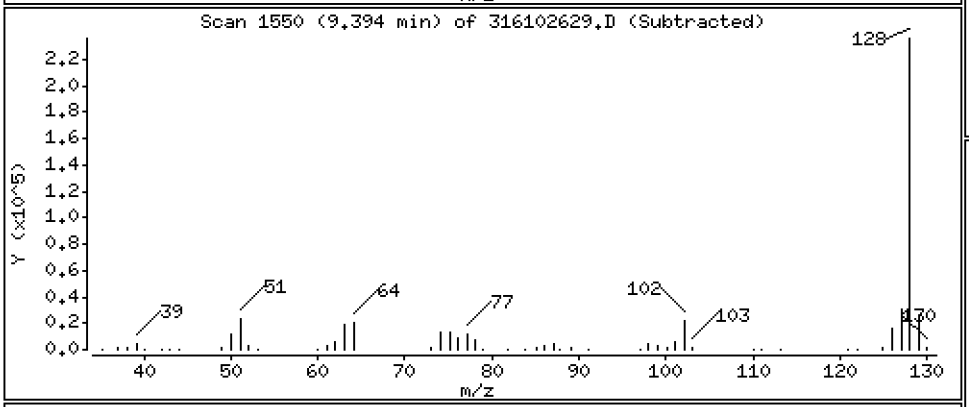
Sample Info: 1801;;1;2;4;;;

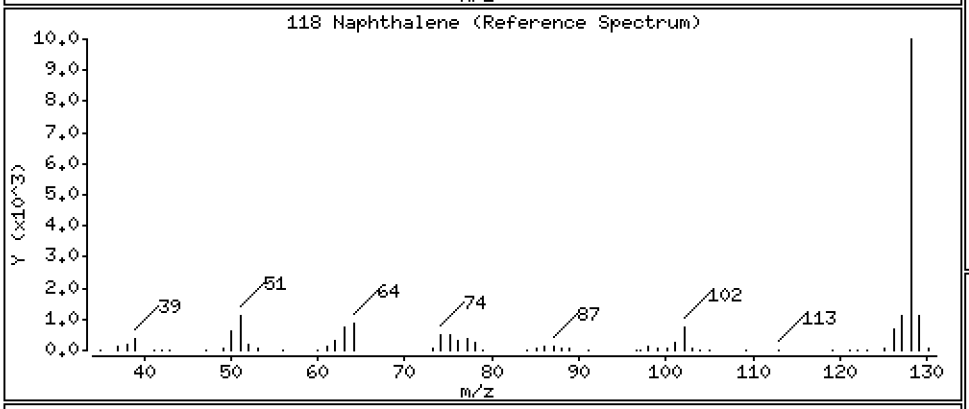
Purge Volume: 5.0 Operator: DD

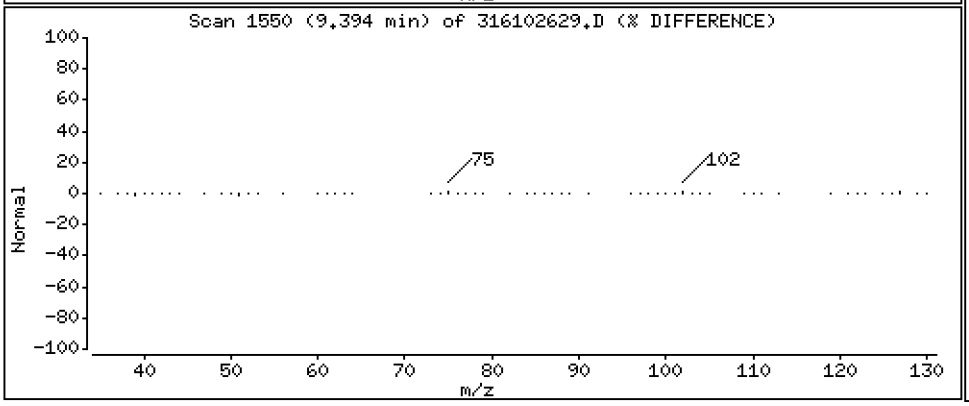
Column phase: DB-VRX Column diameter: 0.25

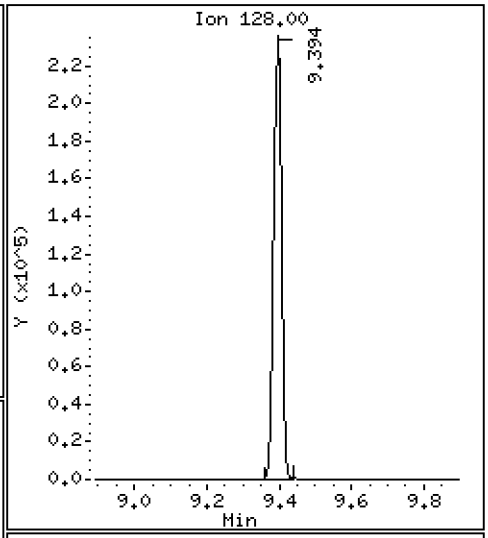
118 Naphthalene Concentration: 42.8843 ug/L

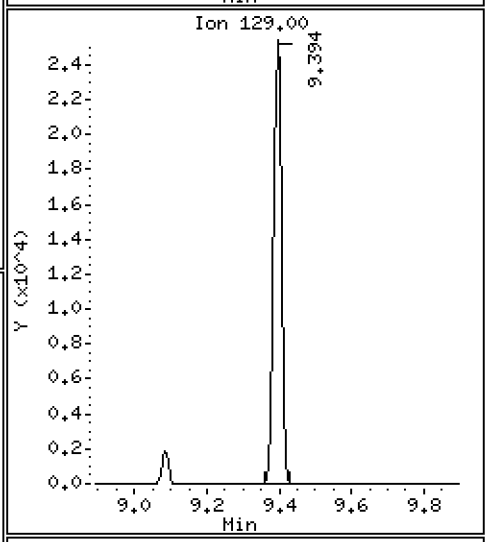


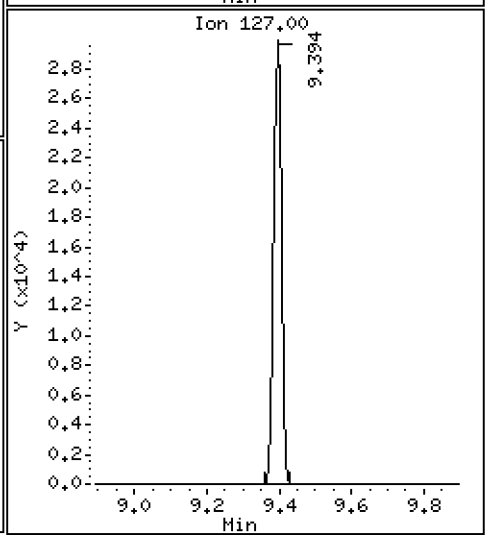












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 123

Date : 26-OCT-2016 19:41

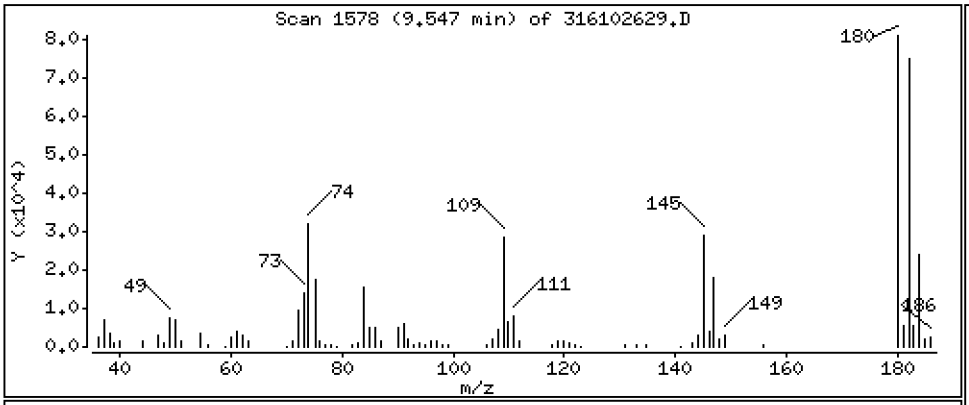
Client ID: Instrument: ms03.i

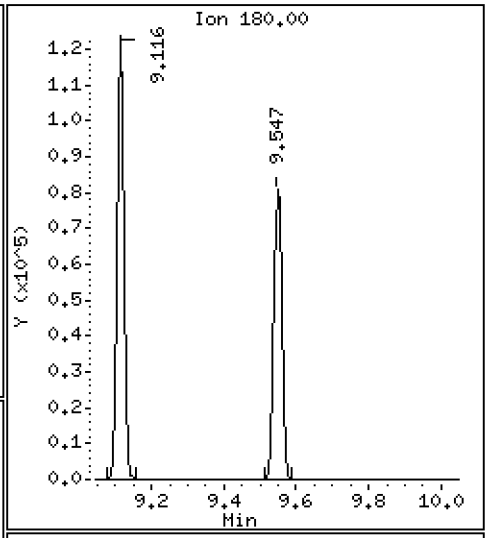
Sample Info: 1801;;1;2;4;;;

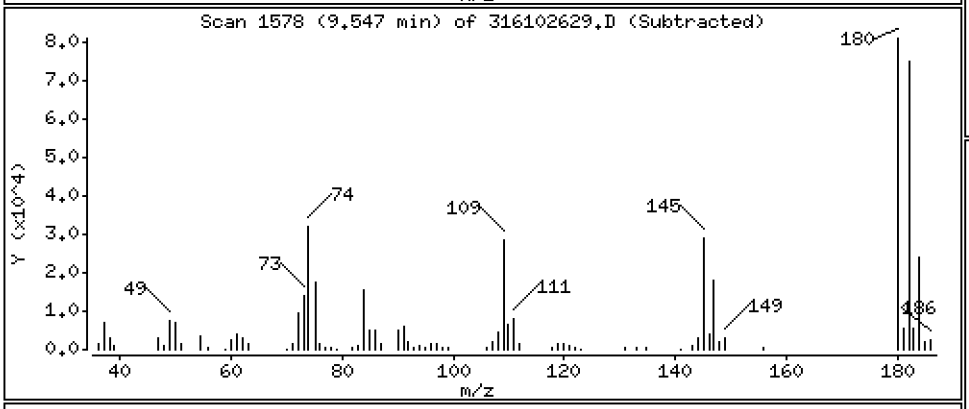
Purge Volume: 5.0 Operator: DD

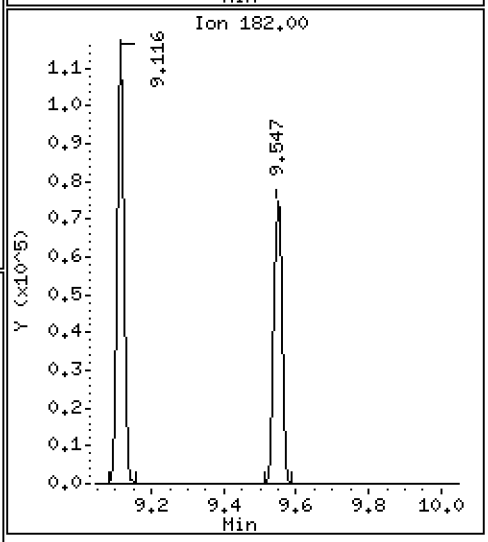
Column phase: DB-VRX Column diameter: 0.25

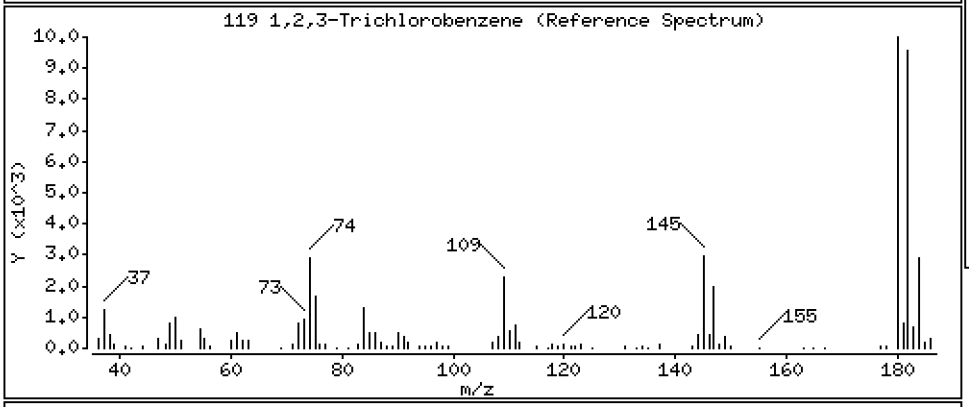
119 1,2,3-Trichlorobenzene Concentration: 43.9665 ug/L

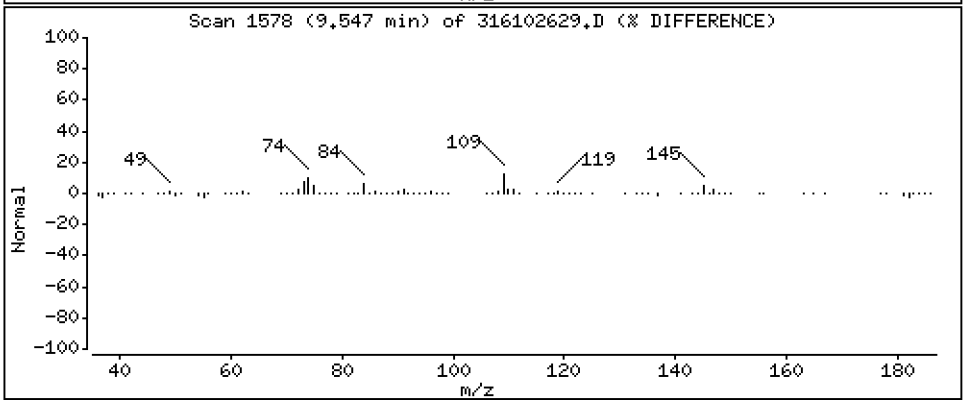












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 124

Date : 26-OCT-2016 19:41

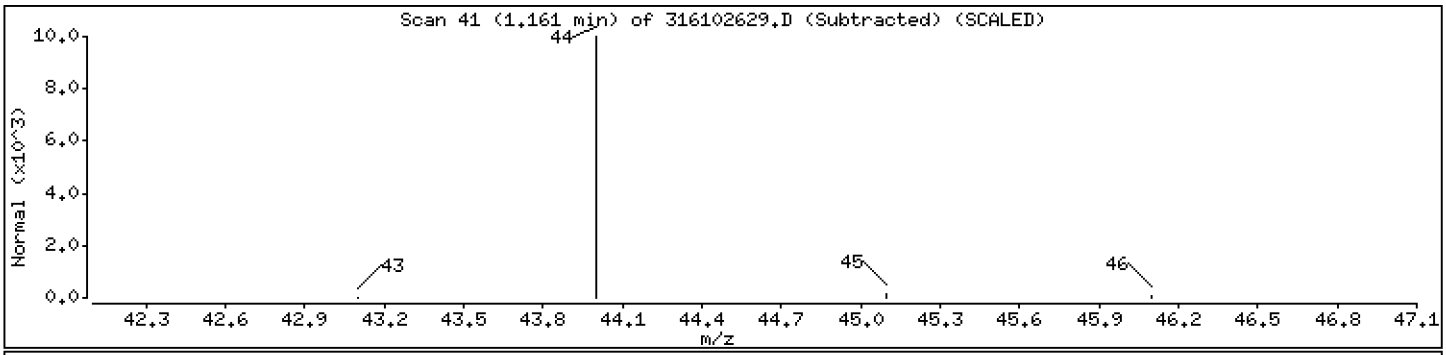
Client ID: Instrument: ms03.i

Sample Info: 1801;;1;2;4;;;

Purge Volume: 5.0 Operator: DD

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 125

Date : 26-OCT-2016 19:41

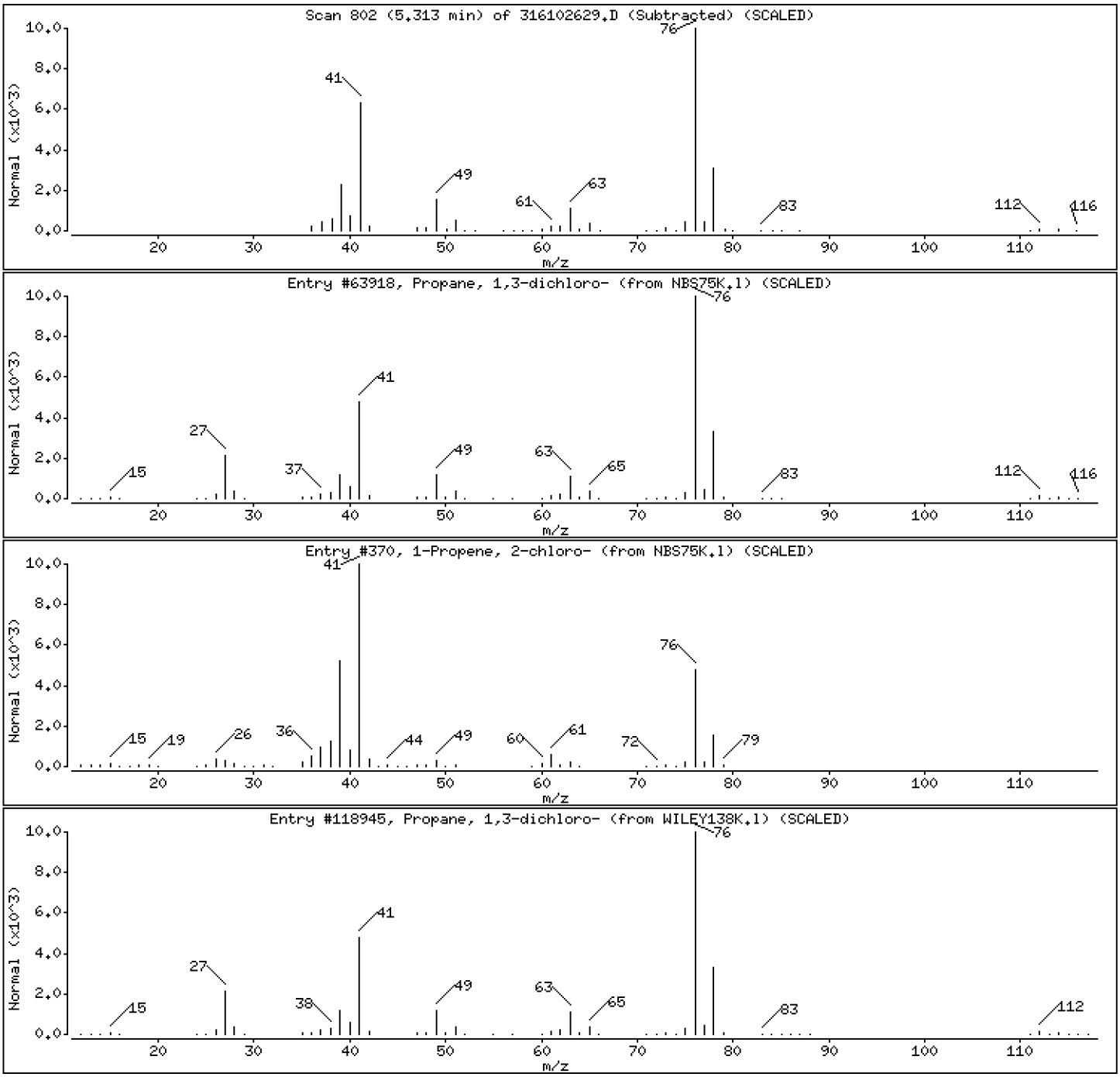
Client ID: Instrument: ms03.i

Sample Info: 1801;;1;2;4;;;

Purge Volume: 5.0 Operator: DD

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propane, 1,3-dichloro-	142-28-9	NBS75K.l	63918	83	C3H6Cl2	112
1-Propene, 2-chloro-	557-98-2	NBS75K.l	370	83	C3H5Cl	76
Propane, 1,3-dichloro-	142-28-9	WILEY138K.l	118945	83	C3H6Cl2	112



Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 126

Date : 26-OCT-2016 19:41

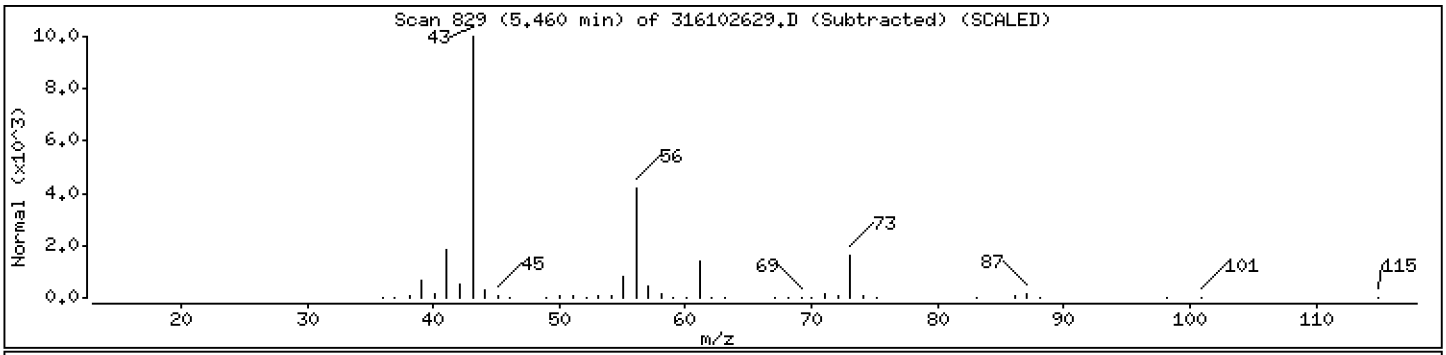
Client ID: Instrument: ms03.i

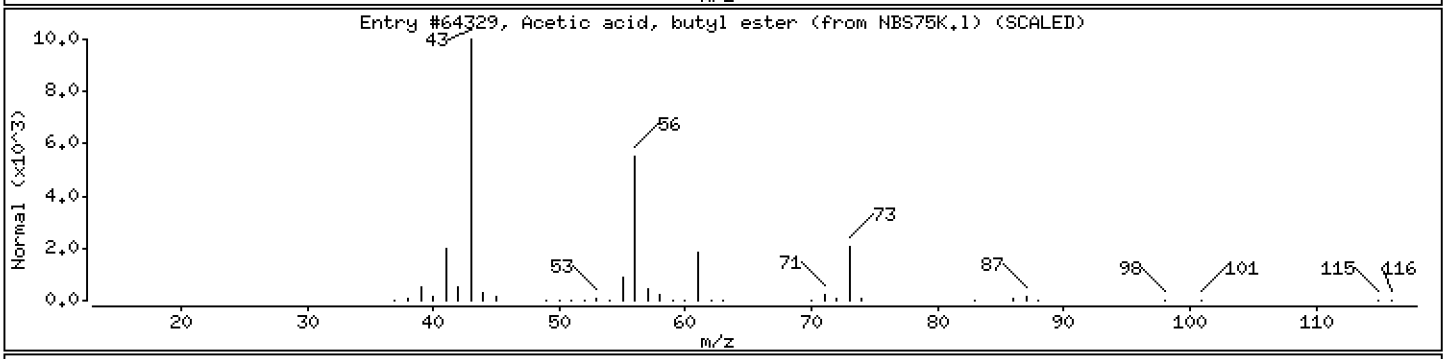
Sample Info: 1801;;1;2;4;;;

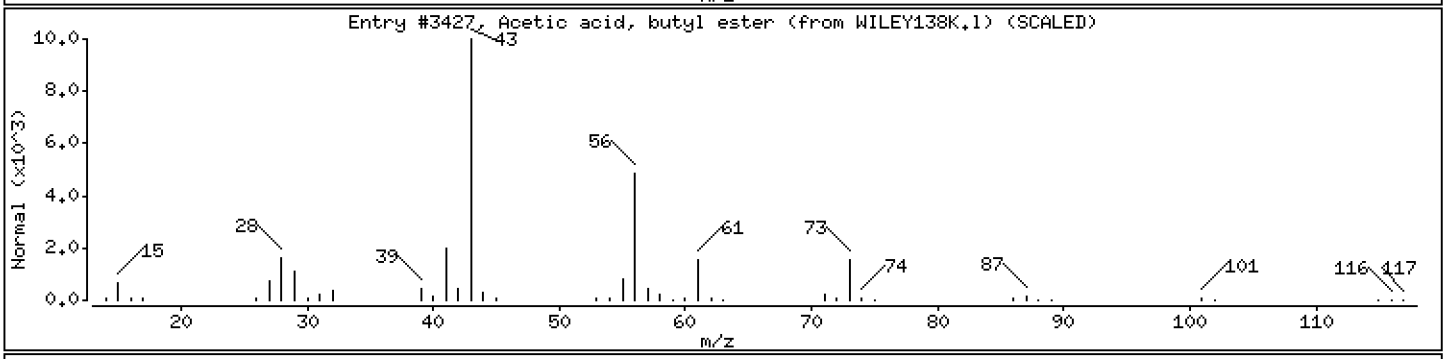
Purge Volume: 5.0 Operator: DD

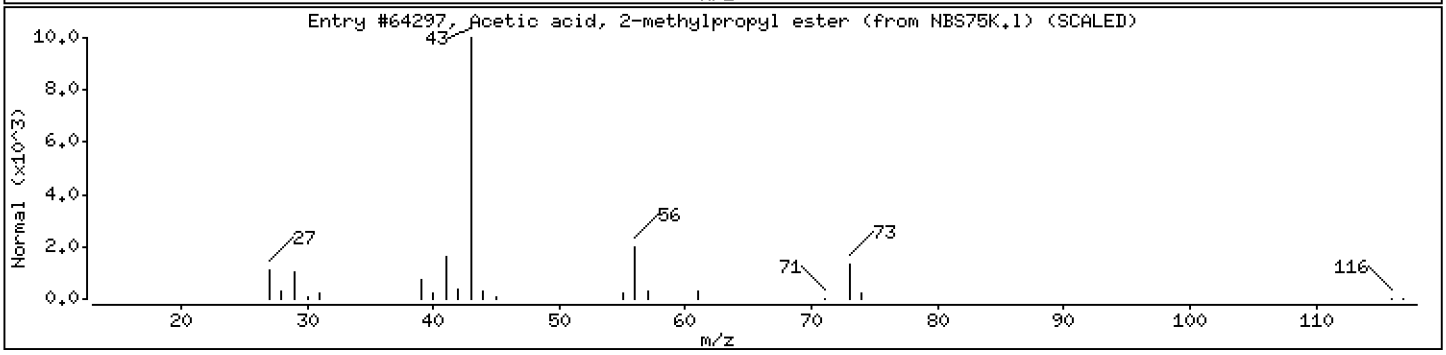
Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, butyl ester	123-86-4	NBS75K.l	64329	90	C6H12O2	116
Acetic acid, butyl ester	123-86-4	WILEY138K.l	3427	83	C6H12O2	116
Acetic acid, 2-methylpropyl ester	110-19-0	NBS75K.l	64297	40	C6H12O2	116









Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102629.D Page 127

Date : 26-OCT-2016 19:41

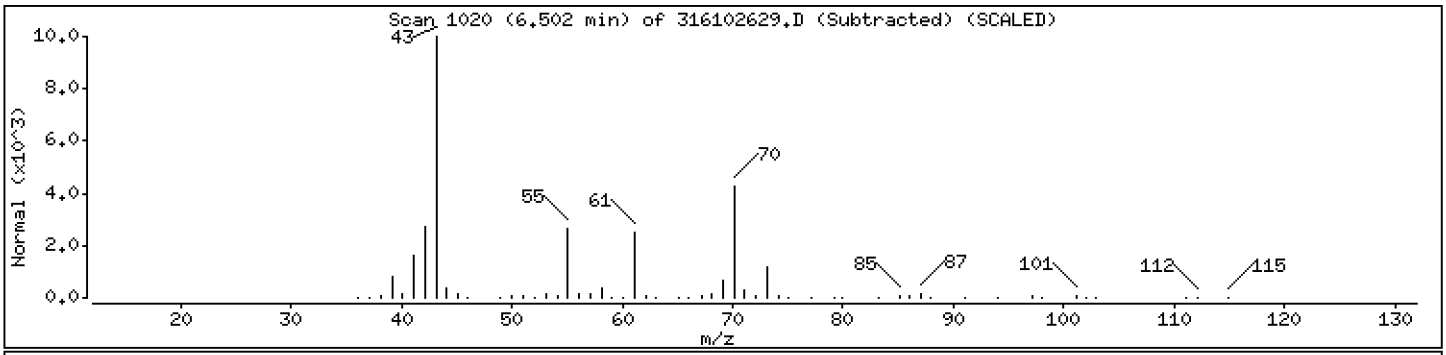
Client ID: Instrument: ms03.i

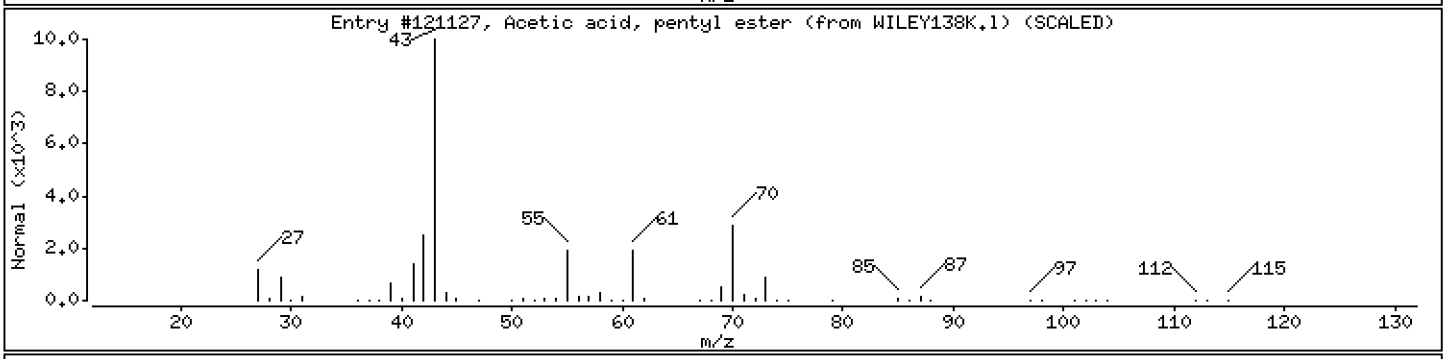
Sample Info: 1801;;1;2;4;;;

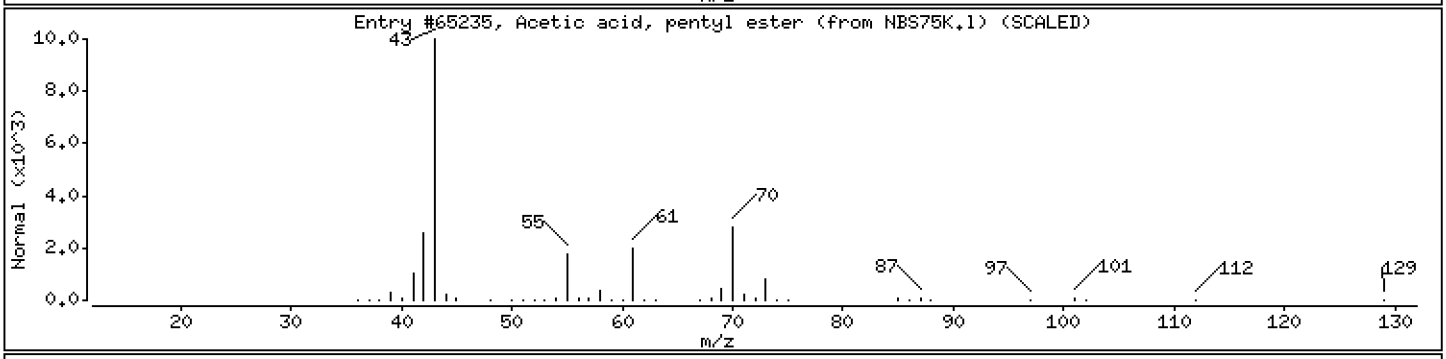
Purge Volume: 5.0 Operator: DD

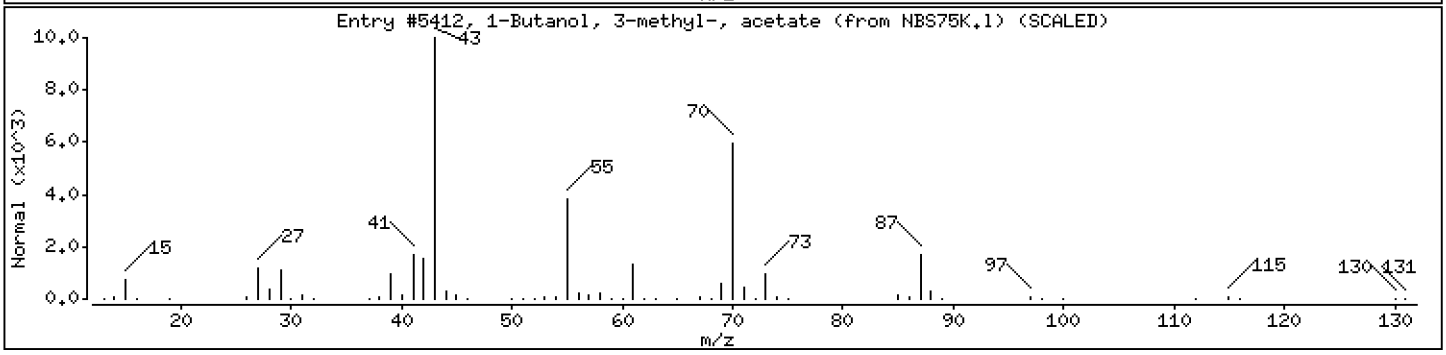
Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, pentyl ester	628-63-7	WILEY138K.l	121127	90	C7H1402	130
Acetic acid, pentyl ester	628-63-7	NBS75K.l	65235	83	C7H1402	130
1-Butanol, 3-methyl-, acetate	123-92-2	NBS75K.l	5412	45	C7H1402	130





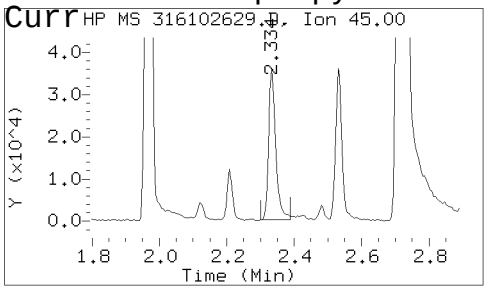


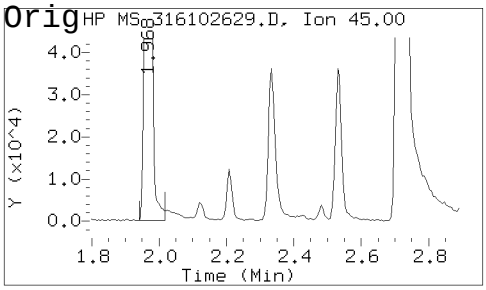


MANUAL INTEGRATION REPORT

Report Date: 10/27/2016 11:31
Lab Sample ID: 1801 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161026.b/316102629.D
RawFile:/Chem2/ms03.i/03_2016/3161026.b/RawData/316102629.D
Injection Date: 26-OCT-2016 19:41 Operator: DD

Isopropyl Alcohol

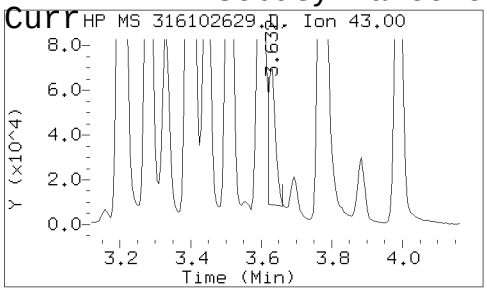
Curr 

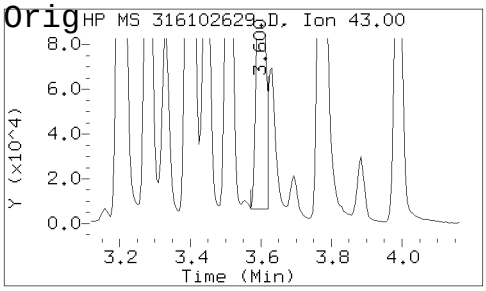
Orig 

Curr. Area: 52616
Orig. Area: 271269

Curr. ON-COL: 216.440
Orig. ON-COL: 1115.89

Isobutyl alcohol

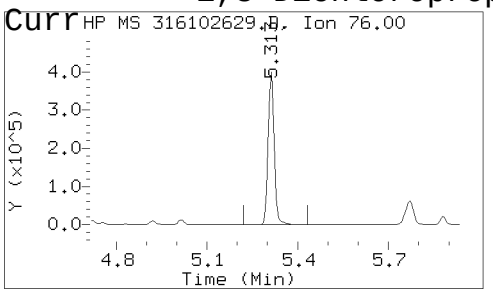
Curr 

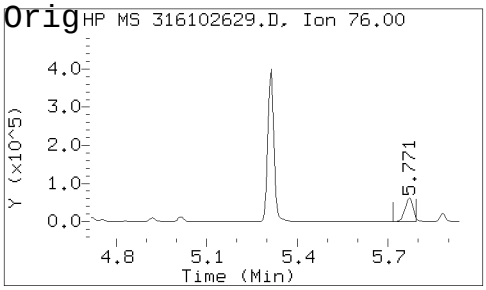
Orig 

Curr. Area: 83152
Orig. Area: 303266

Curr. ON-COL: 501.027
Orig. ON-COL: 1413.73

1,3-Dichloropropane

Curr 

Orig 

Curr. Area: 553011
Orig. Area: 114251

Curr. ON-COL: 46.5498
Orig. ON-COL: 9.61711

UNASSIGNED PEAK REPORT

Report Date: 10/27/2016 11:31
Lab Sample ID: 1801 Client ID:
DataFile:/Chem2/ms03.i/03_2016/3161026.b/316102629.D
RawFile:/Chem2/ms03.i/03_2016/3161026.b/RawData/316102629.D
Injection Date: 26-OCT-2016 19:41 Operator: DD

QC Raw Data

Instrument Tune Raw Data

Data File: 316102450.D Page 1
Report Date: 25-Oct-2016 10:11

ALS Environmental Services

BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\31610245
Lab Smp Id: 1000
Inj Date : 24-OCT-2016 22:18
Operator : CJG Inst ID: ms03.i
Smp Info : 1000
Misc Info :
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\bfb288.m
Meth Date : 07-Jun-2016 11:12 ms03.i Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
6.638	4.602	(0.000)	95	125712			0.00- 100.00	100.00
6.638	4.602	(0.000)	50	25808			15.00- 40.00	20.53
6.638	4.602	(0.000)	75	65928			30.00- 60.00	52.44
6.638	4.602	(0.000)	96	8695			5.00- 9.00	6.92
6.638	4.602	(0.000)	173	355			0.00- 2.00	0.44
6.638	4.602	(0.000)	174	80664			50.00- 0.00	64.17
6.638	4.602	(0.000)	175	5615			5.00- 9.00	6.96
6.638	4.602	(0.000)	176	77840			95.00- 101.00	96.50
6.638	4.602	(0.000)	177	4649			5.00- 9.00	5.97

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102450.D

Page 2

Date : 24-OCT-2016 22:18

Client ID:

Instrument: ms03.i

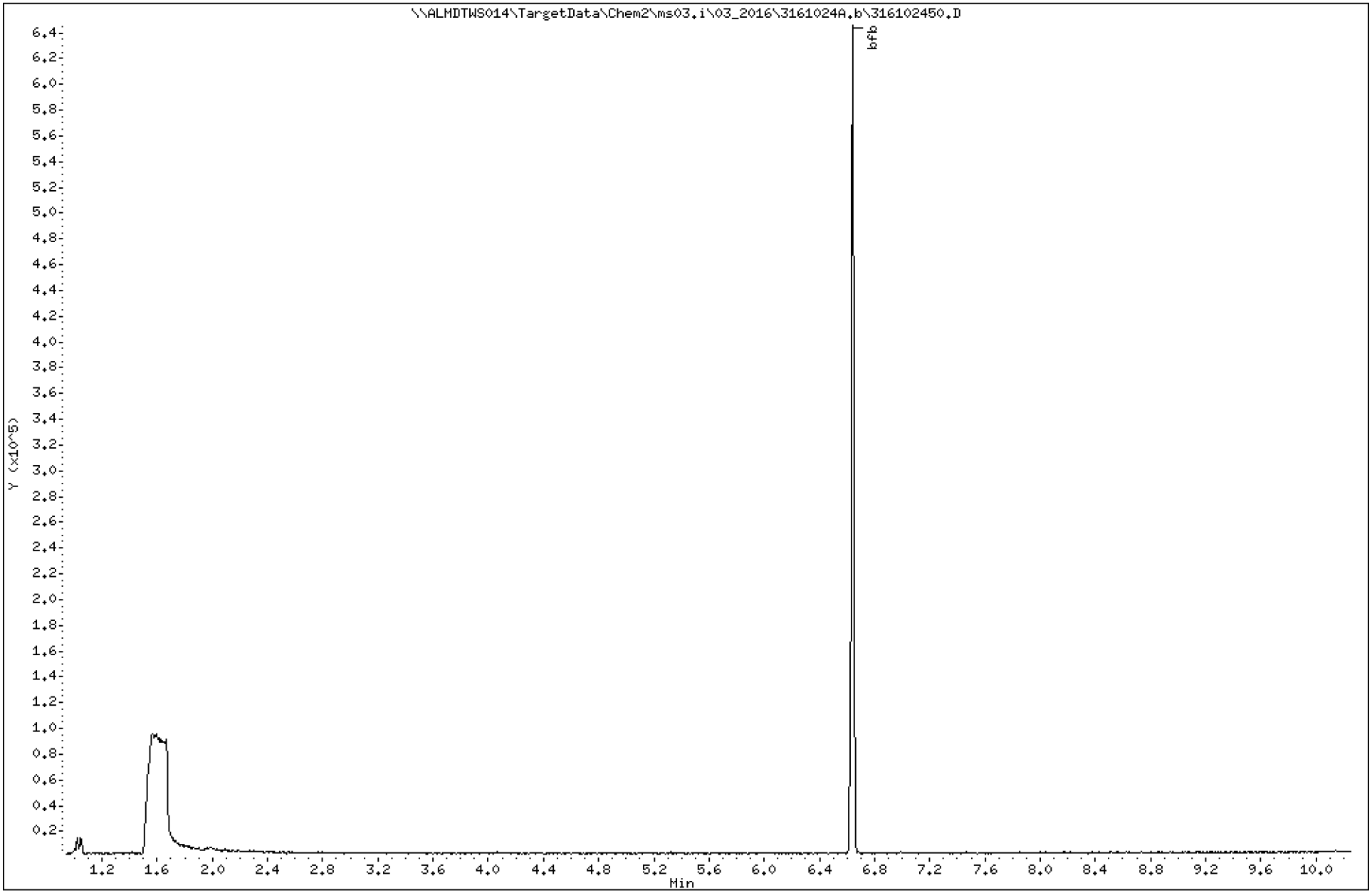
Sample Info: 1000

Volume Injected (uL): 1.0

Operator: CJG

Column phase: DB624

Column diameter: 0.53



Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102450.D Page 3

Date : 24-OCT-2016 22:18

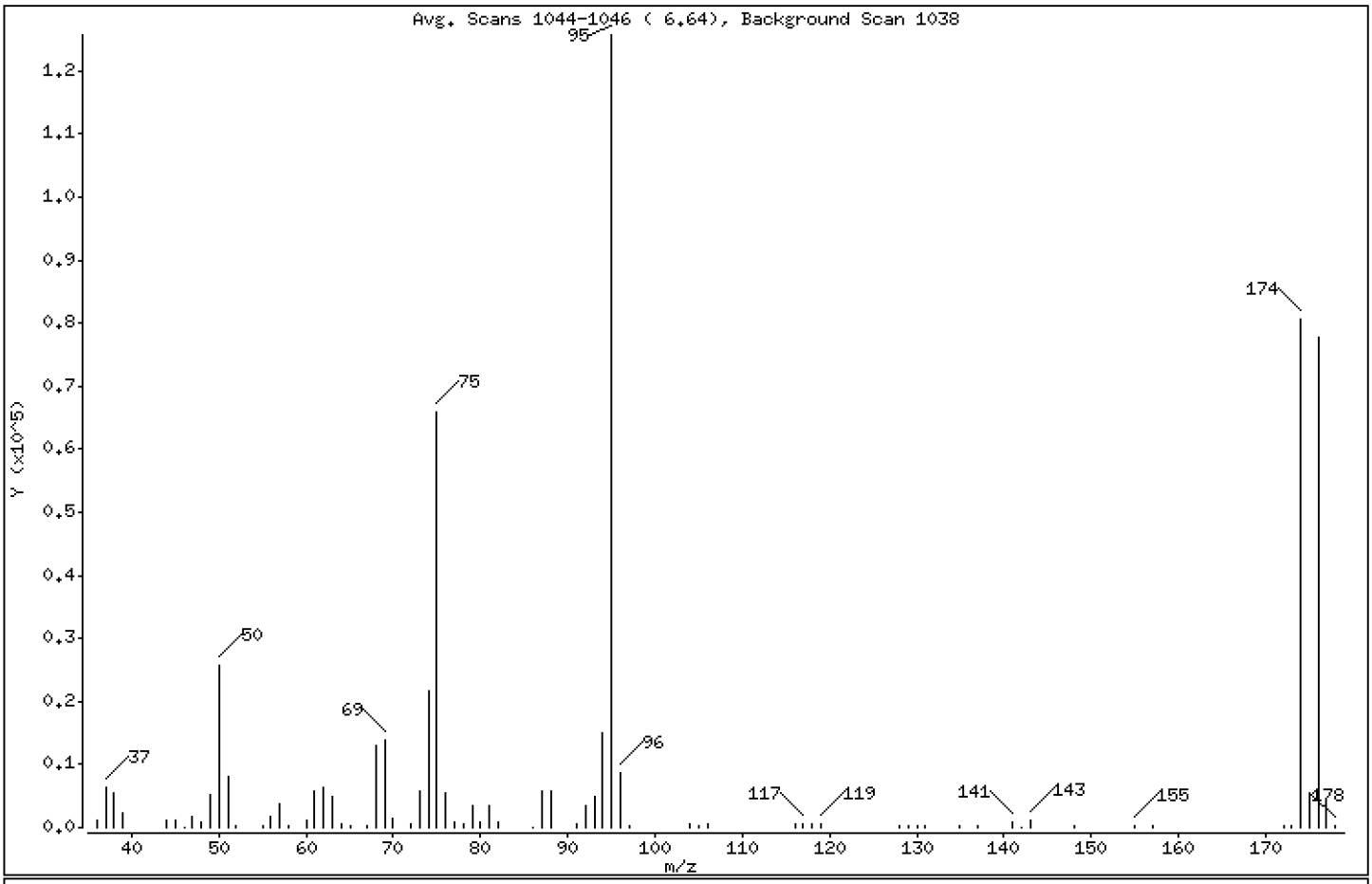
Client ID: Instrument: ms03.i

Sample Info: 1000

Volume Injected (uL): 1.0 Operator: CJG

Column phase: DB624 Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.53
75	30.00 - 60.00% of mass 95	52.44
96	5.00 - 9.00% of mass 95	6.92
173	Less than 2.00% of mass 174	0.28 (0.44)
174	Greater than 50.00% of mass 95	64.17
175	5.00 - 9.00% of mass 174	4.47 (6.96)
176	95.00 - 101.00% of mass 174	61.92 (96.50)
177	5.00 - 9.00% of mass 176	3.70 (5.97)

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161024A.b\316102450.D Page 4

Date : 24-OCT-2016 22:18

Client ID: Instrument: ms03.i

Sample Info: 1000

Volume Injected (uL): 1.0 Operator: CJG

Column phase: DB624 Column diameter: 0.53

Data File: 316102450.D
Spectrum: Avg. Scans 1044-1046 (6.64), Background Scan 1038
Location of Maximum: 95.00
Number of points: 74

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1167	62.00	6416	86.00	50	130.00	335
37.00	6309	63.00	4775	87.00	5684	131.00	169
38.00	5389	64.00	511	88.00	5766	135.00	246
39.00	2381	65.00	333	91.00	497	137.00	199
44.00	1128	67.00	342	92.00	3326	141.00	1006
45.00	1137	68.00	12954	93.00	5054	142.00	51
46.00	54	69.00	13840	94.00	15069	143.00	1143
47.00	1735	70.00	1370	95.00	125712	148.00	236
48.00	917	72.00	664	96.00	8695	155.00	318
49.00	5080	73.00	5769	97.00	248	157.00	224
50.00	25808	74.00	21632	104.00	652	172.00	370
51.00	8044	75.00	65928	105.00	193	173.00	355
52.00	391	76.00	5564	106.00	498	174.00	80664
55.00	311	77.00	744	116.00	464	175.00	5615
56.00	1659	78.00	447	117.00	607	176.00	77840
57.00	3714	79.00	3444	118.00	532	177.00	4649
58.00	157	80.00	949	119.00	515	178.00	235
60.00	1186	81.00	3556	128.00	414		
61.00	5921	82.00	742	129.00	197		

Data File: 316102600.D Page 1
Report Date: 27-Oct-2016 11:05

ALS Environmental Services

BFB Tune

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102600
Lab Smp Id: 1000
Inj Date : 26-OCT-2016 08:34
Operator : DD Inst ID: ms03.i
Smp Info : 1000
Misc Info : ZZ VOMS 41271 8260W_CCV
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\bfb288.m
Meth Date : 07-Jun-2016 11:12 ms03.i Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: ALMDTW7046

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
6.638	4.602	(0.000)	95	147200			0.00- 100.00	100.00
6.638	4.602	(0.000)	50	32264			15.00- 40.00	21.92
6.638	4.602	(0.000)	75	80312			30.00- 60.00	54.56
6.638	4.602	(0.000)	96	10571			5.00- 9.00	7.18
6.638	4.602	(0.000)	173	526			0.00- 2.00	0.56
6.638	4.602	(0.000)	174	94104			50.00- 0.00	63.93
6.638	4.602	(0.000)	175	6783			5.00- 9.00	7.21
6.638	4.602	(0.000)	176	92248			95.00- 101.00	98.03
6.638	4.602	(0.000)	177	6053			5.00- 9.00	6.56

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102600.D

Date : 26-OCT-2016 08:34

Client ID:

Instrument: ms03.i

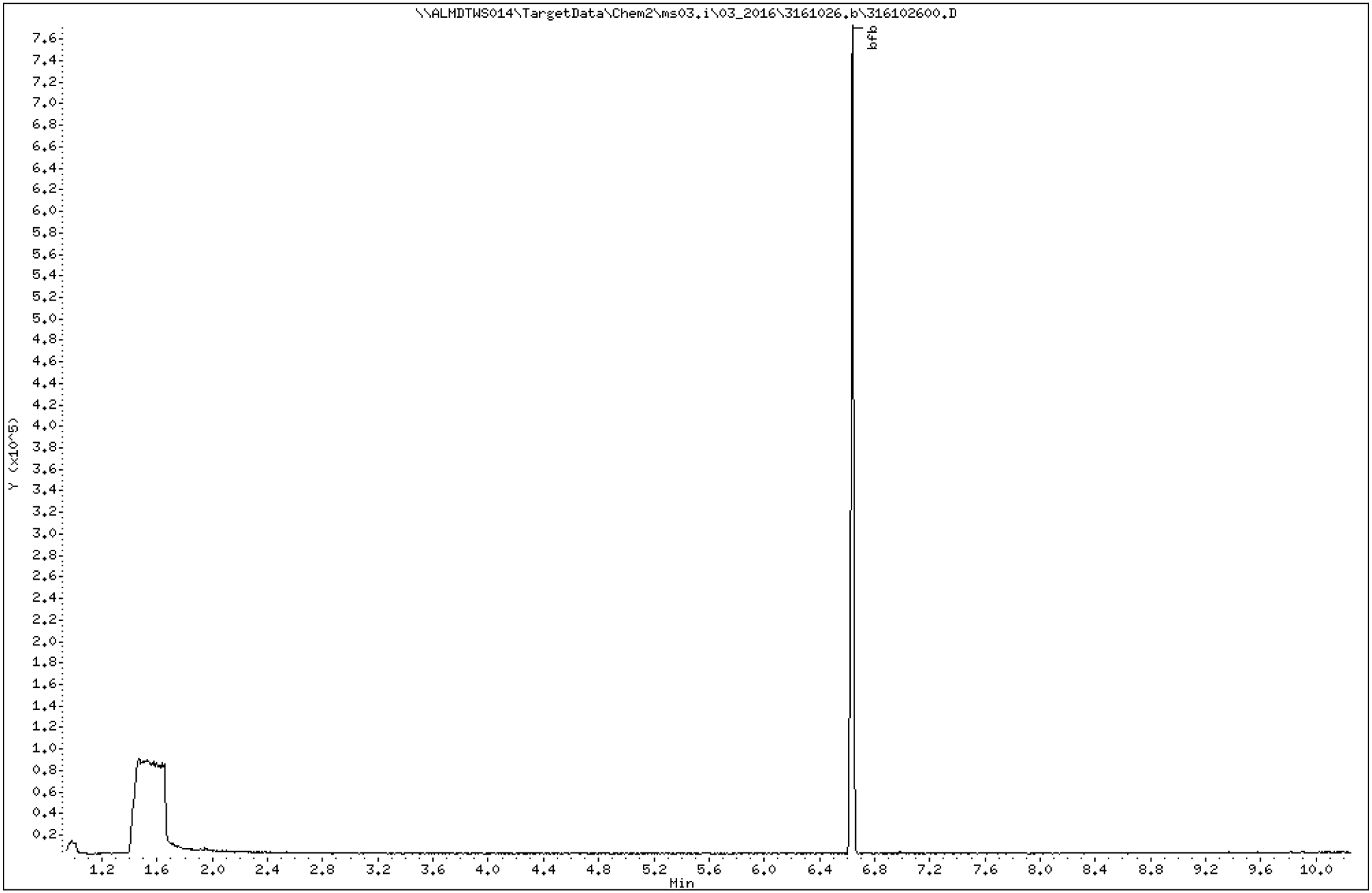
Sample Info: 1000

Volume Injected (uL): 1.0

Operator: DD

Column phase: DB624

Column diameter: 0.53



Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102600.D Page 3

Date : 26-OCT-2016 08:34

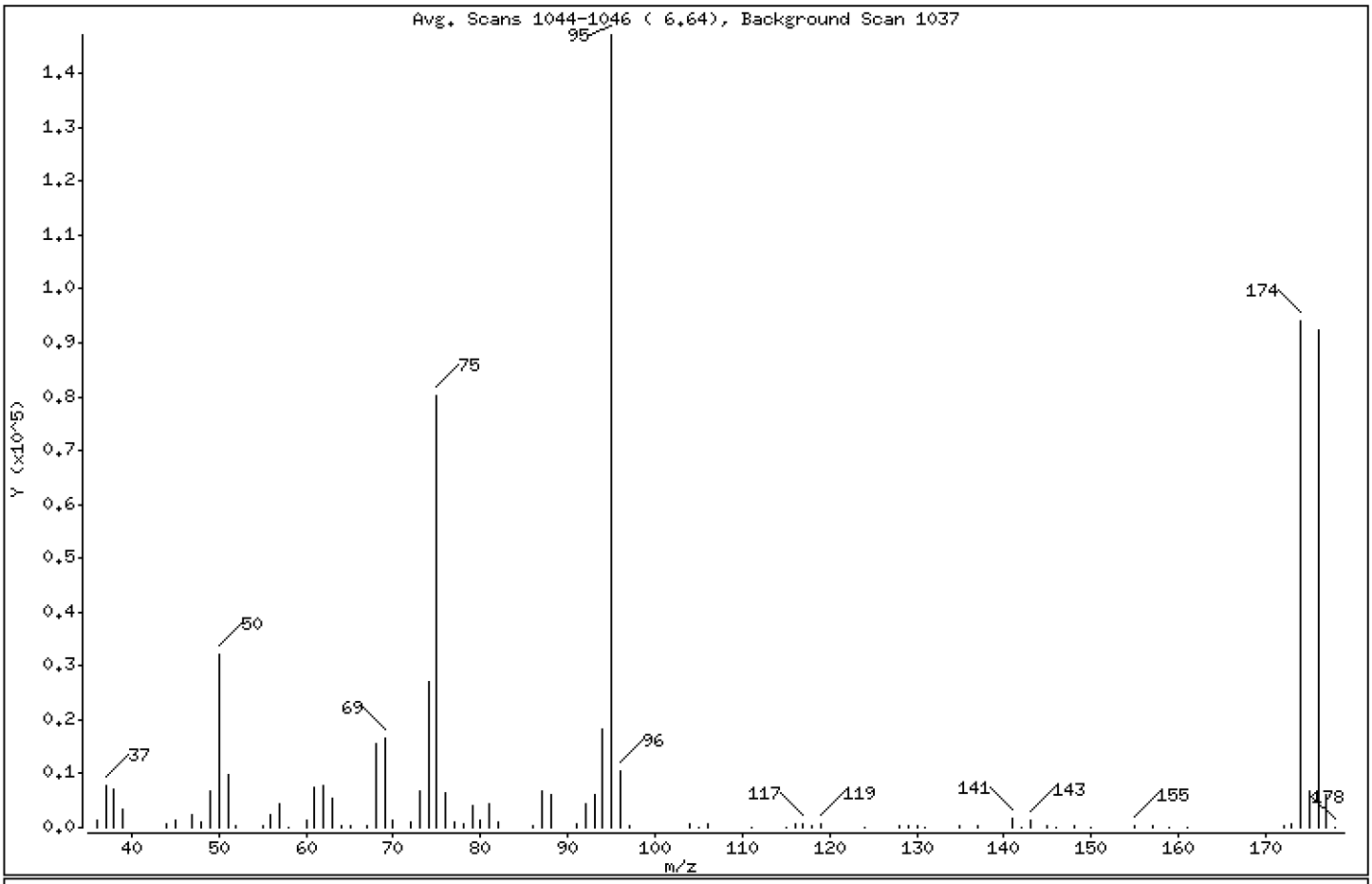
Client ID: Instrument: ms03.i

Sample Info: 1000

Volume Injected (uL): 1.0 Operator: DD

Column phase: DB624 Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.92
75	30.00 - 60.00% of mass 95	54.56
96	5.00 - 9.00% of mass 95	7.18
173	Less than 2.00% of mass 174	0.36 (0.56)
174	Greater than 50.00% of mass 95	63.93
175	5.00 - 9.00% of mass 174	4.61 (7.21)
176	95.00 - 101.00% of mass 174	62.67 (98.03)
177	5.00 - 9.00% of mass 176	4.11 (6.56)

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102600.D Page 4

Date : 26-OCT-2016 08:34

Client ID: Instrument: ms03.i

Sample Info: 1000

Volume Injected (uL): 1.0 Operator: DD

Column phase: DB624 Column diameter: 0.53

Data File: 316102600.D
Spectrum: Avg. Scans 1044-1046 (6.64), Background Scan 1037
Location of Maximum: 95.00
Number of points: 81

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1441	65.00	498	93.00	6043	141.00	1590
37.00	7950	67.00	390	94.00	18176	142.00	154
38.00	6968	68.00	15699	95.00	147200	143.00	1366
39.00	3248	69.00	16704	96.00	10571	145.00	214
44.00	558	70.00	1362	97.00	275	146.00	133
45.00	1344	72.00	900	104.00	660	148.00	302
47.00	2309	73.00	6829	105.00	122	150.00	61
48.00	1005	74.00	27128	106.00	563	155.00	261
49.00	6827	75.00	80312	111.00	54	157.00	226
50.00	32264	76.00	6587	115.00	55	159.00	77
51.00	9859	77.00	958	116.00	533	161.00	127
52.00	419	78.00	648	117.00	810	172.00	440
55.00	486	79.00	4146	118.00	475	173.00	526
56.00	2233	80.00	1221	119.00	713	174.00	94104
57.00	4350	81.00	4332	124.00	51	175.00	6783
58.00	125	82.00	1172	128.00	495	176.00	92248
60.00	1396	86.00	170	129.00	301	177.00	6053
61.00	7560	87.00	6847	130.00	424	178.00	147
62.00	7679	88.00	6120	131.00	123		
63.00	5548	91.00	537	135.00	215		
64.00	488	92.00	4488	137.00	248		

Blank Raw Data

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
2429647(MB)

Lab Name: ALS Global **Contract:**

Lab Code: VOA **Case No.:** **SAS No.:** **SDG No.:** PQF-049

Matrix (soil/water): WATER **Lab Sample ID:** 2429647

Sample wt/vol: 5.00 (g/mL) ML **Lab File ID:** 316102604dod.

Level (low/med): **Date Received:** 10/26/16

% Moisture: not dec. 100.0 **Date Analyzed:** 10/26/16

GC Column: RTXVRX **ID:** 0.25 (mm) **Dilution Factor:** 1.0

Soil Extract Volume: (uL) **Soil Aliquot Volume:** (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-65-0	tert.- Butyl Alcohol	12.5	U

Data File: 316102604dod.D Page 1
Report Date: 27-Oct-2016 13:43

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102604
Lab Smp Id: 2429647 Client Smp ID: MB for HBN 174350 [
Inj Date : 26-OCT-2016 10:33
Operator : DD Inst ID: ms03.i
Smp Info : 2429647;;1;3;;MB;;
Misc Info : ZZ VOMS 41264 D8260W
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b09
Meth Date : 27-Oct-2016 10:55 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: NAMDTW7003

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	Compound Not Detected.						
2 Chloromethane	50	Compound Not Detected.						
3 Vinyl Chloride	62	Compound Not Detected.						
4 Bromomethane	94	Compound Not Detected.						
5 Chloroethane	64	Compound Not Detected.						
6 Pentane	41	Compound Not Detected.						
7 Trichlorofluoromethane	101	Compound Not Detected.						
8 Dichlorofluoromethane	67	Compound Not Detected.						
9 Ethyl Ether	74	Compound Not Detected.						
10 1,1-Dichloroethene	61	Compound Not Detected.						
12 Carbon Disulfide	76	Compound Not Detected.						
11 Freon 113	101	Compound Not Detected.						
13 Iodomethane	127	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
16 3-Chloro-1-propene	41	Compound Not Detected.						
15 Isopropyl Alcohol	45	Compound Not Detected.						
17 Methylene Chloride	84	2.404	2.404	(0.634)	11874	0.45634	0.456338(a)	
18 Acetone	58	Compound Not Detected.						
19 Methyl acetate	74	Compound Not Detected.						
20 trans-1,2-Dichloroethene	61	Compound Not Detected.						
21 Hexane	57	Compound Not Detected.						

Data File: 316102604dod.D Page 2
Report Date: 27-Oct-2016 13:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
22 Methyl t-Butyl Ether	73	Compound Not Detected.						
23 tert.- Butyl Alcohol	59	Compound Not Detected.						
24 Acetonitrile	41	Compound Not Detected.						
25 Diisopropyl ether	45	Compound Not Detected.						
26 Chloroprene	53	Compound Not Detected.						
27 1,1-Dichloroethane	63	Compound Not Detected.						
28 Acrylonitrile	53	Compound Not Detected.						
30 n-Propanol	41	Compound Not Detected.						
29 Ethyl tert-butyl ether	59	Compound Not Detected.						
31 Vinyl acetate	86	Compound Not Detected.						
32 cis-1,2-Dichloroethene	61	Compound Not Detected.						
33 2,2-Dichloropropane	77	Compound Not Detected.						
M 100 1,2-Dichloroethene, Total	61	Compound Not Detected.						
34 Bromochloromethane	128	Compound Not Detected.						
35 Cyclohexane	84	Compound Not Detected.						
36 Chloroform	83	Compound Not Detected.						
37 Ethyl acetate	43	Compound Not Detected.						
38 Methyl acrylate	55	Compound Not Detected.						
39 Carbon Tetrachloride	117	Compound Not Detected.						
40 Tetrahydrofuran	42	Compound Not Detected.						
$ 41 Dibromofluoromethane	113	3.337	3.337	(0.881)	152771	24.4501	24.4501	
42 1,1,1-Trichloroethane	97	Compound Not Detected.						
43 2-Butanone	72	Compound Not Detected.						
44 1,1-Dichloropropene	75	Compound Not Detected.						
45 1-Chlorobutane	41	Compound Not Detected.						
46 Heptane	71	Compound Not Detected.						
48 Propionitrile	54	Compound Not Detected.						
47 Benzene	78	Compound Not Detected.						
49 Methacrylonitrile	67	Compound Not Detected.						
50 tert-amyl methyl Ether	73	Compound Not Detected.						
$ 51 1,2-Dichloroethane-d4	65	3.637	3.637	(0.960)	236449	31.8130	31.8130	
54 Isobutyl alcohol	43	Compound Not Detected.						
52 1,2-Dichloroethane	62	Compound Not Detected.						
53 tert-Amyl Alcohol	59	Compound Not Detected.						
* 55 Fluorobenzene	96	3.790	3.790	(1.000)	947614	30.0000		
56 Diisobutylene	57	Compound Not Detected.						
57 Trichloroethene	95	Compound Not Detected.						
58 Methyl cyclohexane	83	Compound Not Detected.						
59 tert-Amyl Ethylether	59	Compound Not Detected.						
60 Dibromomethane	93	Compound Not Detected.						
61 1,2-Dichloropropane	63	Compound Not Detected.						
62 Bromodichloromethane	83	Compound Not Detected.						
63 Methyl methacrylate	41	Compound Not Detected.						
64 1,4-Dioxane	88	Compound Not Detected.						
65 2-Chloroethylvinyl ether	63	Compound Not Detected.						
66 cis-1,3-Dichloropropene	75	Compound Not Detected.						
67 Octane	85	Compound Not Detected.						
$ 68 Toluene-d8	98	4.723	4.723	(0.820)	671798	27.5268	27.5268	
69 Toluene	92	Compound Not Detected.						
70 Chloroacetonitrile	48	Compound Not Detected.						
71 2-Nitropropane	41	Compound Not Detected.						
72 1,1-Dichloro-2-propanone	63	Compound Not Detected.						
73 4-Methyl-2-Pentanone(MIBK)	43	Compound Not Detected.						
75 trans-1,3-Dichloropropene	75	Compound Not Detected.						

Data File: 316102604dod.D Page 3
Report Date: 27-Oct-2016 13:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
	74 Tetrachloroethene	164	Compound Not Detected.						
	76 Ethyl methacrylate	69	Compound Not Detected.						
	77 1,1,2-Trichloroethane	83	Compound Not Detected.						
	78 Chlorodibromomethane	129	Compound Not Detected.						
	79 1,3-Dichloropropane	76	Compound Not Detected.						
	80 1,2-Dibromoethane	107	Compound Not Detected.						
	81 2-Hexanone	43	Compound Not Detected.						
	82 1-Chlorohexane	91	Compound Not Detected.						
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	395017	30.0000		
	85 Ethylbenzene	106	Compound Not Detected.						
	84 Chlorobenzene	112	Compound Not Detected.						
	86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	87 mp-Xylene	106	Compound Not Detected.						
M	120 1,3-Dichloropropene, Total	75	Compound Not Detected.						
	88 o-Xylene	106	Compound Not Detected.						
	89 Styrene	104	Compound Not Detected.						
	90 Bromoform	173	Compound Not Detected.						
	91 Isopropylbenzene	105	Compound Not Detected.						
$	92 4-Bromofluorobenzene	174	6.649	6.649	(0.885)	126053	27.5941	27.5941	
M	121 TOTAL XYLENES	106	Compound Not Detected.						
	94 n-Propylbenzene	120	Compound Not Detected.						
	93 Bromobenzene	156	Compound Not Detected.						
	95 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	97 1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	96 o-Chlorotoluene	91	Compound Not Detected.						
	98 1,2,3-Trichloropropane	110	Compound Not Detected.						
	99 trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	101 p-Chlorotoluene	91	Compound Not Detected.						
	102 tert-Butylbenzene	134	Compound Not Detected.						
	103 Pentachloroethane	117	Compound Not Detected.						
	104 1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	105 sec-Butylbenzene	105	Compound Not Detected.						
	106 p-Isopropyltoluene	134	Compound Not Detected.						
	107 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	108 1,4-Dichlorobenzene-d4	152	7.517	7.522	(1.000)	220712	30.0000	(Q)	
	109 1,4-Dichlorobenzene	146	Compound Not Detected.						
	111 n-Butylbenzene	134	Compound Not Detected.						
	110 Benzyl Chloride	126	Compound Not Detected.						
	112 Hexachloroethane	117	Compound Not Detected.						
	113 1,2-Dichlorobenzene	146	Compound Not Detected.						
	114 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	115 Nitrobenzene	77	Compound Not Detected.						
	116 Hexachlorobutadiene	225	9.088	9.088	(1.209)	1594	1.03742	1.03742(a)	
	117 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
	118 Naphthalene	128	Compound Not Detected.						
	119 1,2,3-Trichlorobenzene	180	Compound Not Detected.						

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: 316102604dod.D Page 4
Report Date: 27-Oct-2016 13:43

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i
Lab File ID: 316102604dod.D
Lab Smp Id: 2429647
Analysis Type: VOA
Quant Type: ISTD
Operator: DD
Calibration Date: 26-OCT-2016
Calibration Time: 09:18
Client Smp ID: MB for HBN 1743
Level: LOW
Sample Type: WATER
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b0
Misc Info: ZZ VOMS 41264 D8260W

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	947614	-6.47
83 Chlorobenzene-d5	432864	216432	865728	395017	-8.74
108 1,4-Dichlorobenze	273837	136919	547674	220712	-19.40

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	-0.01
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	-0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.08

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102604dod.D Page 5
Report Date: 27-Oct-2016 13:43

ALS Environmental Services

RECOVERY REPORT

Client Name: Client SDG: 3161026.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 2429647 Client Smp ID: MB for HBN 174350 [
Level: LOW Operator: DD
Data Type: MS DATA SampleType: BLANK
SpikeList File: WATERQC2006.spk Quant Type: ISTD
Sublist File: DODall.sub
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b0
Misc Info: ZZ VOMS 41264 D8260W

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 41 Dibromofluorometha	30.0000	24.4501	81.50	80-119
$ 51 1,2-Dichloroethane	30.0000	31.8130	106.04	81-118
$ 68 Toluene-d8	30.0000	27.5268	91.76	89-112
$ 92 4-Bromofluorobenze	30.0000	27.5941	91.98	85-114

Data File: 316102604dod.D Page 6
Report Date: 27-Oct-2016 13:43

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2429647
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41264 D8260W

Client SDG: 3161026.b
Client Smp ID: MB for HBN 174350 [
Sample Point:
Date Received: 26-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: DD

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-09-2	Methylene Chloride	0.456338	J
87-68-3	Hexachlorobutadiene	1.03742	J
1868-53-7	Dibromofluoromethane	24.4501	
17060-07-0	1,2-Dichloroethane-d4	31.8130	
2037-26-5	Toluene-d8	27.5268	
460-00-4	4-Bromofluorobenzene	27.5941	

Data File: 316102604dod.D Page 7
Report Date: 27-Oct-2016 13:43

ALS Environmental Services

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:
Lab Smp Id: 2429647
Operator : DD
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 26-OCT-2016 10:33

Client SDG: 3161026.b
Client Smp ID: MB for HBN 174350 [
Sample Date:
Sample Point:
Date Received:26-OCT-2016 00:00
Level: LOW

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102604dod.D

Page 8

Date : 26-OCT-2016 10:33

Client ID: MB for HBN 174350 [

Instrument: ms03.i

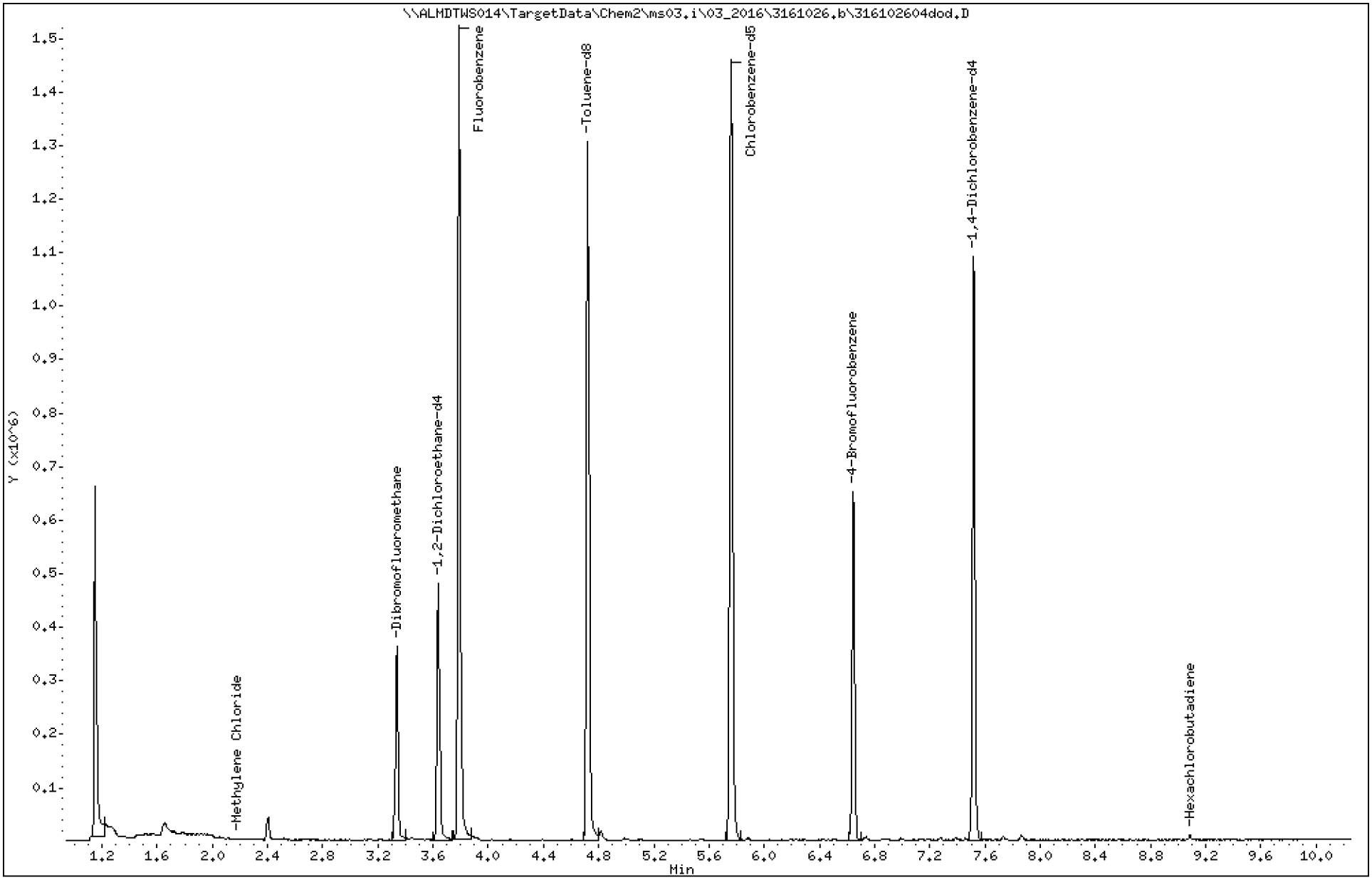
Sample Info: 2429647;;1;3;;MB;;

Purge Volume: 5.0

Operator: DD

Column phase: DB-VRX

Column diameter: 0.25



Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102604dod.D Page 9

Date : 26-OCT-2016 10:33

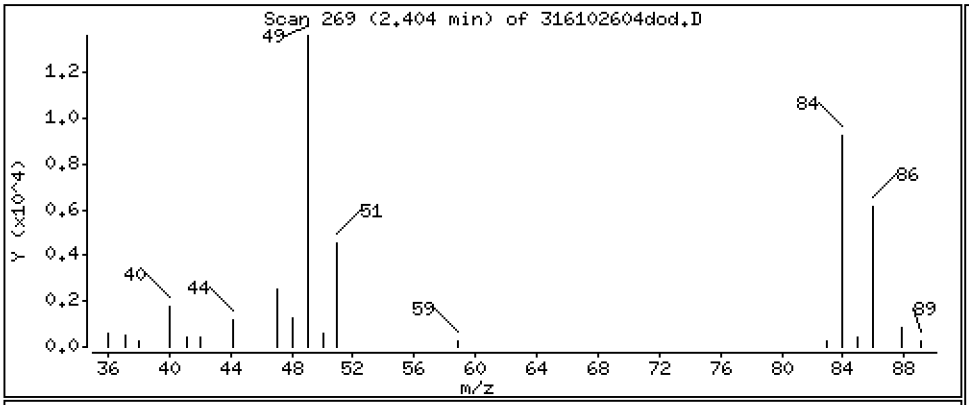
Client ID: MB for HBN 174350 [Instrument: ms03.i

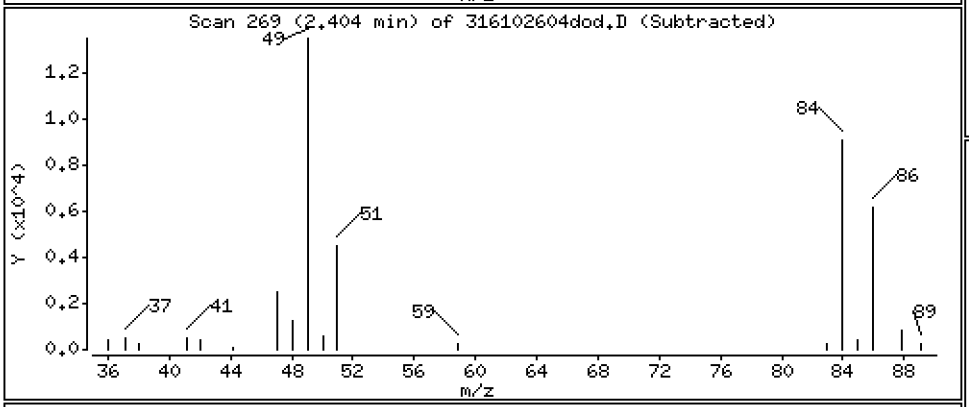
Sample Info: 2429647;;1;3;;MB;;

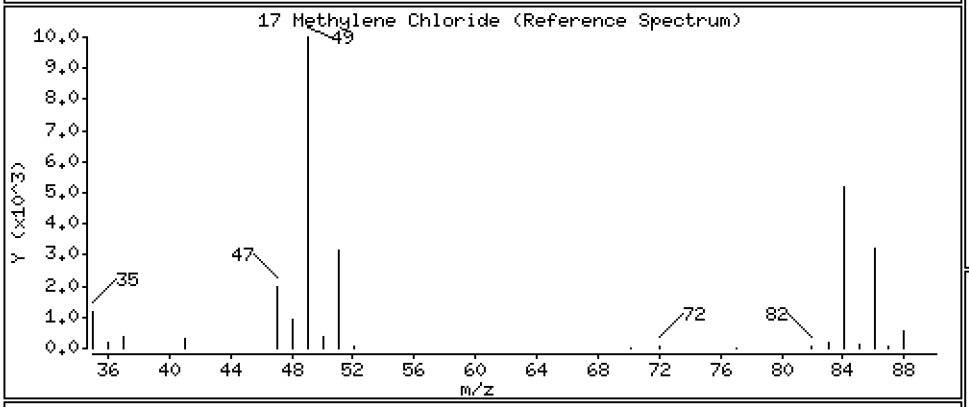
Purge Volume: 5.0 Operator: DD

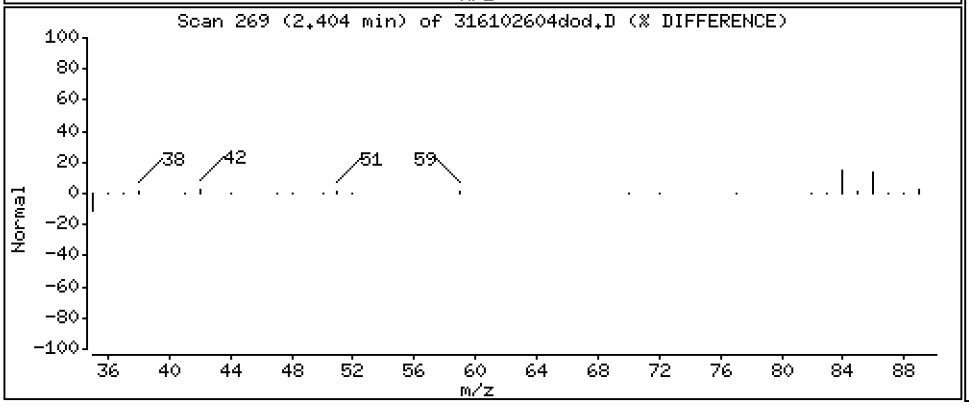
Column phase: DB-VRX Column diameter: 0.25

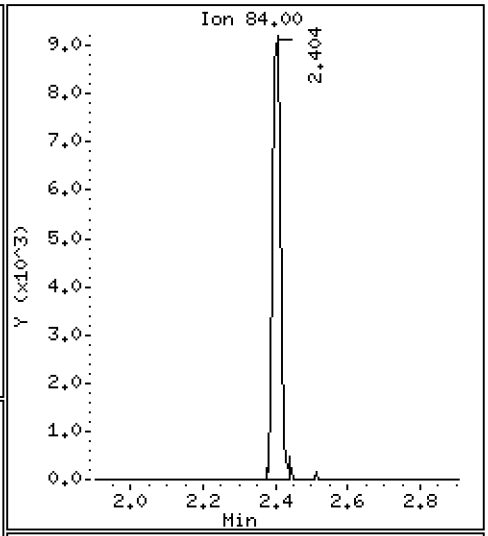
17 Methylene Chloride Concentration: 0.456338 ug/L

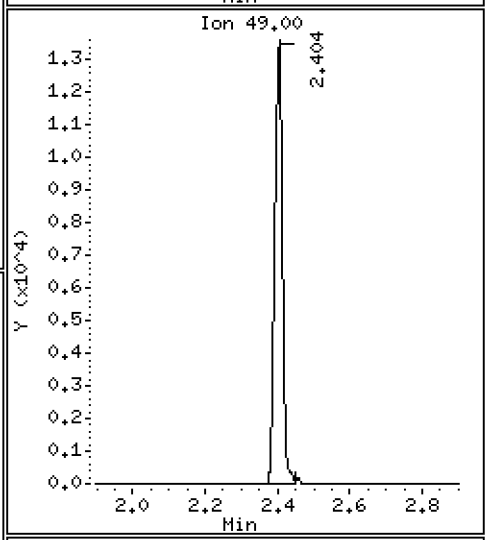


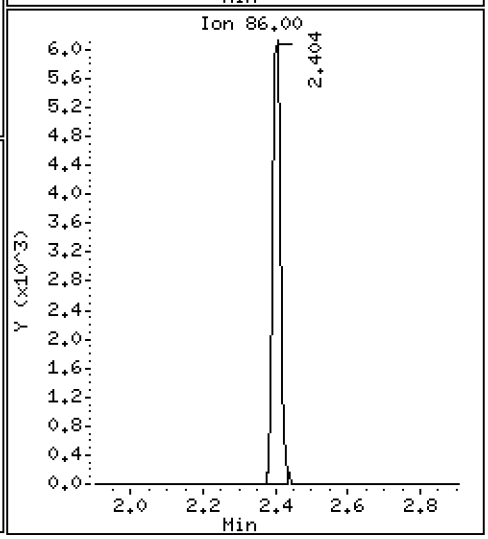












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102604dod.D Page 10

Date : 26-OCT-2016 10:33

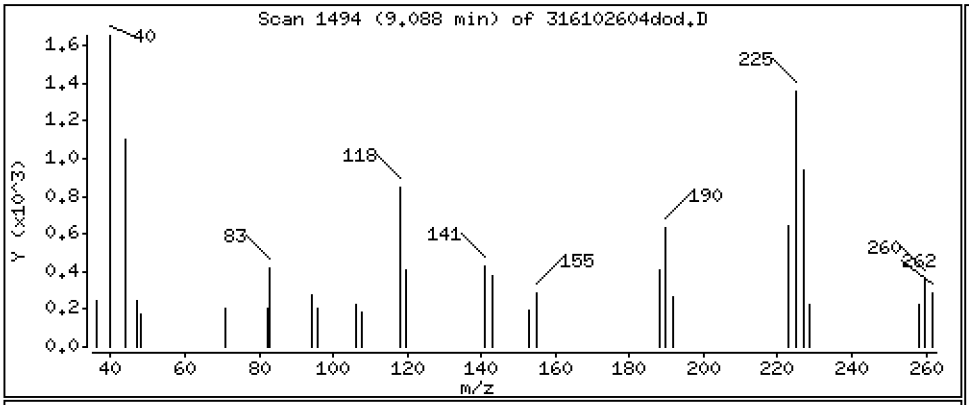
Client ID: MB for HBN 174350 [Instrument: ms03.i

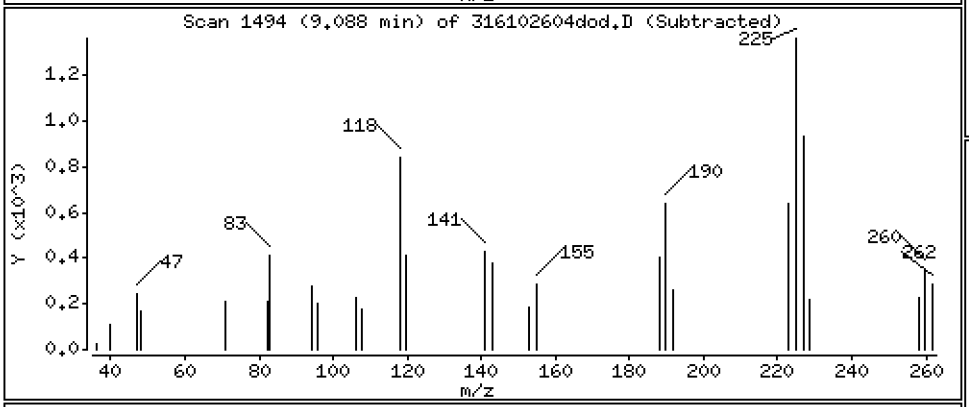
Sample Info: 2429647;;1;3;;MB;;

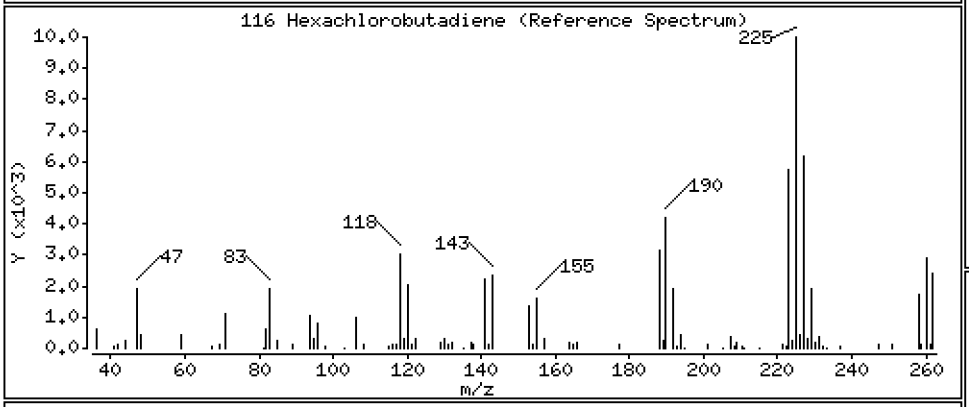
Purge Volume: 5.0 Operator: DD

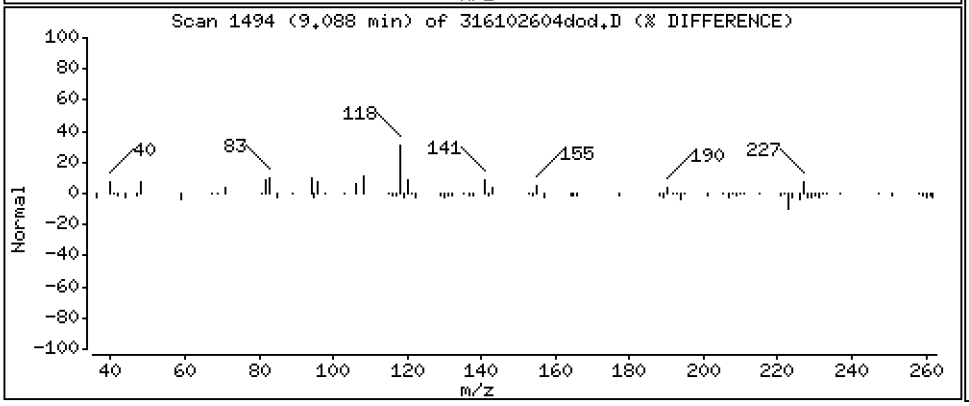
Column phase: DB-VRX Column diameter: 0.25

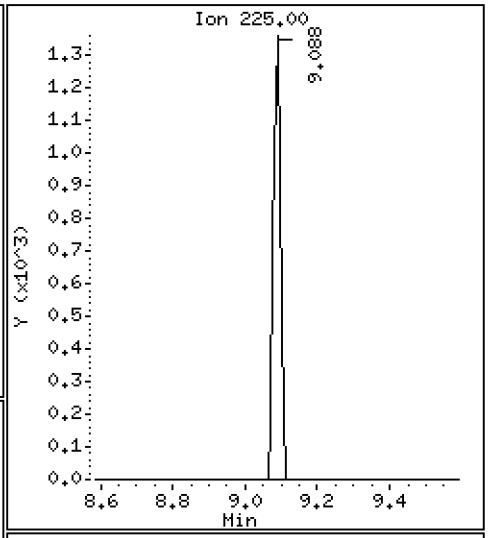
116 Hexachlorobutadiene Concentration: 1.03742 ug/L

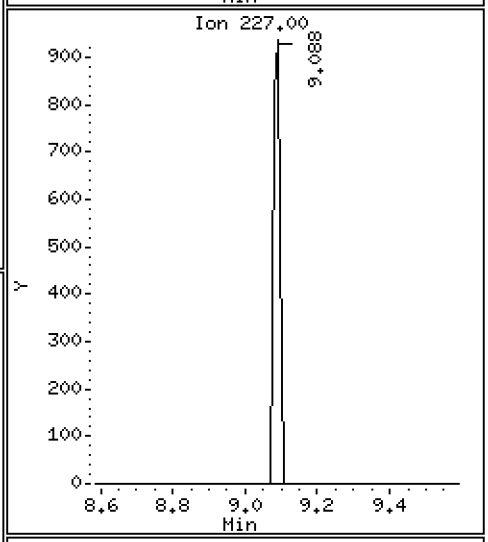


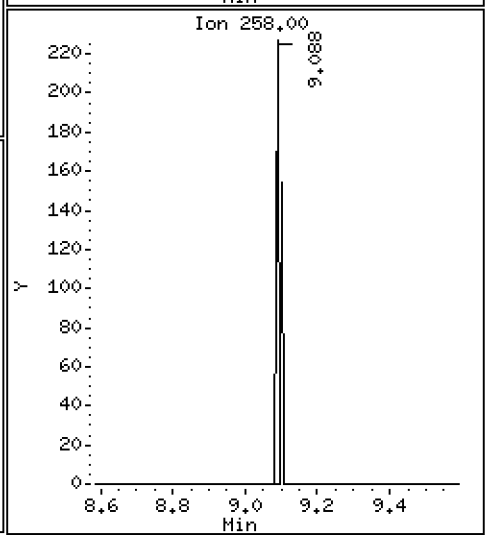












MANUAL INTEGRATION REPORT

Report Date: 10/27/2016 13:43
Lab Sample ID: 2429647 Client ID: MB for HBN 174350 [
DataFile:/Chem2/ms03.i/03_2016/3161026.b/316102604dod.D
RawFile:/Chem2/ms03.i/03_2016/3161026.b/RawData/316102604dod.D
Injection Date: 26-OCT-2016 10:33 Operator: DD
There were no manual integrations performed on this sample!

UNASSIGNED PEAK REPORT

Report Date: 10/27/2016 13:43
Lab Sample ID: 2429647 Client ID: MB for HBN 174350 [
DataFile:/Chem2/ms03.i/03_2016/3161026.b/316102604dod.D
RawFile:/Chem2/ms03.i/03_2016/3161026.b/RawData/316102604dod.D
Injection Date: 26-OCT-2016 10:33 Operator: DD
The following compounds were Unassigned:

Chloromethane
Iodomethane
Methacrylonitrile
Trichloroethene
Chloroacetonitrile
1-Chlorohexane
Bromomethane
Heptane
1,2-Dichloroethane
1,4-Dioxane
1,3-Dichloropropane

LCS Raw Data

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
2429648(LCS)

Lab Name: ALS Global **Contract:**

Lab Code: VOA **Case No.:** **SAS No.:** **SDG No.:** PQF-049

Matrix (soil/water): WATER **Lab Sample ID:** 2429648

Sample wt/vol: 5.00 (g/mL) ML **Lab File ID:** 316102605dod.

Level (low/med): **Date Received:** 10/26/16

% Moisture: not dec. 100.0 **Date Analyzed:** 10/26/16

GC Column: RTXVRX **ID:** 0.25 (mm) **Dilution Factor:** 1.0

Soil Extract Volume: (uL) **Soil Aliquot Volume:** (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-65-0	tert.- Butyl Alcohol	129	

Data File: 316102605dod.D Page 1
Report Date: 27-Oct-2016 13:43

ALS Environmental Services

VOLATILE REPORT SW-846 Method 8260

Data file : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605
Lab Smp Id: 2429648 Client Smp ID: LCS for HBN 174350
Inj Date : 26-OCT-2016 10:55
Operator : DD Inst ID: ms03.i
Smp Info : 2429648;;1;3;;LCS;1;
Misc Info : ZZ VOMS 41264 D8260W
Comment :
Method : \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b09
Meth Date : 27-Oct-2016 10:55 joshua Quant Type: ISTD
Cal Date : 25-OCT-2016 01:14 Cal File: 316102458.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DODall.sub
Target Version: 4.14
Processing Host: NAMDTW7003

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged
DF	1.000	sample dilution factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
1 Dichlorodifluoromethane	85	1.258	1.258	(0.332)	195558	16.7781	16.7781	
2 Chloromethane	50	1.389	1.389	(0.367)	214250	19.7958	19.7958	
3 Vinyl Chloride	62	1.444	1.444	(0.381)	224749	19.3461	19.3461	
4 Bromomethane	94	1.640	1.640	(0.433)	89313	20.9030	20.9030	
5 Chloroethane	64	1.706	1.717	(0.450)	148077	20.6418	20.6418	
6 Pentane	41	1.787	1.793	(0.472)	180217	29.1371	29.1371(R)	
7 Trichlorofluoromethane	101	1.793	1.799	(0.473)	258577	19.7794	19.7794	
8 Dichlorofluoromethane	67	1.826	1.826	(0.482)	363167	20.8181	20.8181	
9 Ethyl Ether	74	1.967	1.968	(0.519)	110828	19.1022	19.1022	
10 1,1-Dichloroethene	61	2.088	2.088	(0.551)	244313	20.2558	20.2558	
12 Carbon Disulfide	76	2.115	2.120	(0.558)	367077	17.8406	17.8406	
11 Freon 113	101	2.098	2.099	(0.554)	144291	21.2116	21.2116	
13 Iodomethane	127	2.175	2.180	(0.574)	26120	16.9630	16.9630	
14 Acrolein	56	2.273	2.273	(0.600)	304811	269.151	269.151	
16 3-Chloro-1-propene	41	2.344	2.344	(0.619)	239981	23.8826	23.8826	
15 Isopropyl Alcohol	45	2.339	2.333	(0.617)	36359	140.938	140.938	
17 Methylene Chloride	84	2.404	2.404	(0.634)	178918	22.2305	22.2305	
18 Acetone	58	2.426	2.426	(0.640)	72238	115.509	115.509	
19 Methyl acetate	74	2.480	2.481	(0.655)	27052	21.7990	21.7990	
20 trans-1,2-Dichloroethene	61	2.486	2.486	(0.656)	243738	20.7911	20.7911	
21 Hexane	57	2.513	2.519	(0.663)	371617	22.5074	22.5074	

Data File: 316102605dod.D Page 2
Report Date: 27-Oct-2016 13:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/L)	REVIEW CODE
22 Methyl t-Butyl Ether	73	2.529	2.530	(0.667)	399835	19.7633	19.7633	
23 tert.- Butyl Alcohol	59	2.568	2.568	(0.678)	56295	129.293	129.293(R)	
24 Acetonitrile	41	2.682	2.682	(0.708)	90739	138.131	138.131	
25 Diisopropyl ether	45	2.720	2.721	(0.718)	576443	21.7689	21.7689	
26 Chloroprene	53	2.797	2.797	(0.738)	265067	22.9303	22.9303	
27 1,1-Dichloroethane	63	2.813	2.813	(0.742)	299885	19.6482	19.6482	
28 Acrylonitrile	53	2.841	2.841	(0.750)	321577	116.376	116.376	
30 n-Propanol	41	2.911	2.912	(0.768)	114940	243.633	243.633(Q)	
29 Ethyl tert-butyl ether	59	2.911	2.912	(0.768)	469847	20.9034	20.9034	
31 Vinyl acetate	86	2.928	2.928	(0.773)	28960	17.3390	17.3390	
32 cis-1,2-Dichloroethene	61	3.097	3.097	(0.817)	231229	19.7357	19.7357	
33 2,2-Dichloropropane	77	3.157	3.157	(0.833)	183526	19.9588	19.9588	
M 100 1,2-Dichloroethene, Total	61				474967	40.5268	40.5268	
34 Bromochloromethane	128	3.206	3.206	(0.846)	62519	19.1805	19.1805	
35 Cyclohexane	84	3.212	3.212	(0.847)	276124	21.9329	21.9329	
36 Chloroform	83	3.233	3.234	(0.853)	295723	20.6429	20.6429	
37 Ethyl acetate	43	3.282	3.277	(0.866)	151275	22.5591	22.5591	
38 Methyl acrylate	55	3.293	3.294	(0.869)	142041	21.8401	21.8401	
39 Carbon Tetrachloride	117	3.321	3.321	(0.876)	154179	19.1917	19.1917	
40 Tetrahydrofuran	42	3.332	3.332	(0.879)	246404	115.972	115.972	
$ 41 Dibromofluoromethane	113	3.337	3.337	(0.881)	158509	25.1696	25.1696	
42 1,1,1-Trichloroethane	97	3.359	3.359	(0.886)	216932	20.2600	20.2600	
43 2-Butanone	72	3.403	3.397	(0.898)	101942	112.559	112.559	
44 1,1-Dichloropropene	75	3.424	3.425	(0.904)	235697	20.8234	20.8234	
45 1-Chlorobutane	41	3.446	3.446	(0.909)	200569	24.4371	24.4371	
46 Heptane	71	3.512	3.512	(0.927)	132930	25.7417	25.7417	
48 Propionitrile	54	3.577	3.577	(0.944)	120442	116.479	116.479	
47 Benzene	78	3.561	3.561	(0.940)	685559	19.6181	19.6181	
49 Methacrylonitrile	67	3.583	3.583	(0.945)	67310	21.1550	21.1550	
50 tert-amyl methyl Ether	73	3.599	3.599	(0.950)	366748	20.1925	20.1925	
$ 51 1,2-Dichloroethane-d4	65	3.637	3.637	(0.960)	234243	31.2691	31.2691	
54 Isobutyl alcohol	43	3.632	3.632	(0.958)	53575	322.639	322.639(R)	
52 1,2-Dichloroethane	62	3.675	3.676	(0.970)	203151	19.6290	19.6290	
53 tert-Amyl Alcohol	59	3.692	3.692	(0.974)	38638	112.787	112.787	
* 55 Fluorobenzene	96	3.790	3.790	(1.000)	955102	30.0000		
56 Diisobutylene	57	3.790	3.796	(1.000)	497868	25.4118	25.4118	
57 Trichloroethene	95	3.883	3.883	(1.024)	160822	19.3332	19.3332	
58 Methyl cyclohexane	83	3.883	3.883	(0.674)	291717	20.8520	20.8520	
59 tert-Amyl Ethylether	59	3.992	3.987	(1.053)	329216	20.3489	20.3489	
60 Dibromomethane	93	4.139	4.139	(1.092)	79860	18.8095	18.8095	
61 1,2-Dichloropropane	63	4.194	4.194	(1.107)	174214	20.2862	20.2862	
62 Bromodichloromethane	83	4.221	4.221	(1.114)	163520	18.9187	18.9187	
63 Methyl methacrylate	41	4.292	4.292	(1.132)	130493	22.0501	22.0501	
64 1,4-Dioxane	88	4.336	4.336	(1.144)	28367	995.536	995.536(R)	
65 2-Chloroethylvinyl ether	63	4.548	4.549	(1.200)	80507	19.2489	19.2489	
66 cis-1,3-Dichloropropene	75	4.603	4.603	(0.799)	211320	18.5816	18.5816	
67 Octane	85	4.608	4.609	(0.800)	79970	23.4110	23.4110	
$ 68 Toluene-d8	98	4.723	4.723	(0.820)	698433	26.8274	26.8274	
69 Toluene	92	4.756	4.756	(0.826)	396723	19.7611	19.7611	
70 Chloroacetonitrile	48	4.832	4.832	(0.839)	19723	109.585	109.585	
71 2-Nitropropane	41	4.908	4.909	(0.852)	129393	91.9305	91.9305	
72 1,1-Dichloro-2-propanone	63	4.919	4.920	(0.854)	13403	99.6495	99.6495(Q)	
73 4-Methyl-2-Pentanone(MIBK)	43	4.985	4.985	(0.865)	783199	113.161	113.161	
75 trans-1,3-Dichloropropene	75	5.012	5.012	(0.870)	194780	19.7108	19.7108	

Data File: 316102605dod.D Page 3
Report Date: 27-Oct-2016 13:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/L)	REVIEW CODE
	74 Tetrachloroethene	164	5.007	5.007	(0.869)	108286	22.5158	22.5158	
	76 Ethyl methacrylate	69	5.094	5.094	(0.884)	192945	21.3046	21.3046	
	77 1,1,2-Trichloroethane	83	5.121	5.127	(0.889)	111141	19.0434	19.0434	
	78 Chlorodibromomethane	129	5.247	5.247	(0.911)	92456	17.6151	17.6151	
	79 1,3-Dichloropropane	76	5.312	5.312	(0.922)	237059	18.8214	18.8214(M)	H
	80 1,2-Dibromoethane	107	5.421	5.422	(0.941)	109818	18.9175	18.9175	
	81 2-Hexanone	43	5.541	5.542	(0.962)	499968	114.047	114.047	
	82 1-Chlorohexane	91	5.738	5.738	(0.996)	203748	19.8994	19.8994	
*	83 Chlorobenzene-d5	82	5.760	5.760	(1.000)	421433	30.0000		
	85 Ethylbenzene	106	5.781	5.782	(1.004)	214498	18.6448	18.6448	
	84 Chlorobenzene	112	5.771	5.771	(1.002)	378166	17.9545	17.9545	
	86 1,1,1,2-Tetrachloroethane	131	5.814	5.814	(1.009)	107014	19.3502	19.3502	
	87 mp-Xylene	106	5.880	5.880	(1.021)	514520	38.3269	38.3269	
M	120 1,3-Dichloropropene, Total	75				406100	38.2924	38.2924	
	88 o-Xylene	106	6.196	6.196	(1.076)	233627	19.6013	19.6013	
	89 Styrene	104	6.234	6.235	(0.829)	377892	20.4321	20.4321	
	90 Bromoform	173	6.262	6.262	(0.833)	38359	16.5415	16.5415	
	91 Isopropylbenzene	105	6.425	6.426	(0.855)	620745	20.5403	20.5403	
$	92 4-Bromofluorobenzene	174	6.649	6.649	(0.885)	142584	27.6254	27.6254	
M	121 TOTAL XYLENES	106				748147	57.9282	57.9282	
	94 n-Propylbenzene	120	6.736	6.737	(0.896)	158801	20.7803	20.7803	
	93 Bromobenzene	156	6.731	6.731	(0.895)	119653	18.8863	18.8863	
	95 1,1,2,2-Tetrachloroethane	83	6.791	6.791	(0.903)	146913	20.0461	20.0461	
	97 1,3,5-Trimethylbenzene	105	6.884	6.884	(0.916)	478402	21.6197	21.6197	
	96 o-Chlorotoluene	91	6.867	6.868	(0.914)	494043	20.8195	20.8195	
	98 1,2,3-Trichloropropane	110	6.906	6.906	(0.919)	42908	19.6977	19.6977	
	99 trans-1,4-Dichloro-2-butene	53	6.933	6.933	(0.922)	36872	21.0689	21.0689(Q)	
	101 p-Chlorotoluene	91	6.993	6.993	(0.930)	444423	20.5575	20.5575	
	102 tert-Butylbenzene	134	7.140	7.140	(0.950)	103622	20.6795	20.6795	
	103 Pentachloroethane	117	7.162	7.162	(0.953)	81472	19.5306	19.5306	
	104 1,2,4-Trimethylbenzene	105	7.195	7.195	(0.957)	462201	21.3627	21.3627	
	105 sec-Butylbenzene	105	7.277	7.277	(0.968)	589081	21.2901	21.2901	
	106 p-Isopropyltoluene	134	7.391	7.391	(0.983)	109524	20.7755	20.7755	
	107 1,3-Dichlorobenzene	146	7.462	7.462	(0.993)	213600	20.6119	20.6119	
*	108 1,4-Dichlorobenzene-d4	152	7.517	7.522	(1.000)	249374	30.0000		
	109 1,4-Dichlorobenzene	146	7.533	7.533	(1.002)	217375	20.8872	20.8872	
	111 n-Butylbenzene	134	7.735	7.735	(1.029)	94004	20.2492	20.2492(Q)	
	110 Benzyl Chloride	126	7.735	7.735	(1.029)	20747	15.6565	15.6565(Q)	
	112 Hexachloroethane	117	7.849	7.850	(1.044)	56284	17.4721	17.4721	
	113 1,2-Dichlorobenzene	146	7.871	7.877	(1.047)	190690	20.4657	20.4657	
	114 1,2-Dibromo-3-chloropropane	75	8.537	8.543	(1.136)	14712	19.4744	19.4744	
	115 Nitrobenzene	77	9.023	9.023	(1.200)	3304	266.595	266.595	
	116 Hexachlorobutadiene	225	9.088	9.088	(1.209)	36416	20.9808	20.9808	
	117 1,2,4-Trichlorobenzene	180	9.115	9.116	(1.213)	73382	18.7790	18.7790	
	118 Naphthalene	128	9.394	9.394	(1.250)	114759	16.4586	16.4586	
	119 1,2,3-Trichlorobenzene	180	9.546	9.547	(1.270)	49509	19.1185	19.1185	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 316102605dod.D Page 4
Report Date: 27-Oct-2016 13:43

ALS Environmental Services

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: ms03.i
Lab File ID: 316102605dod.D
Lab Smp Id: 2429648
Analysis Type: VOA
Quant Type: ISTD
Operator: DD
Calibration Date: 26-OCT-2016
Calibration Time: 09:18
Client Smp ID: LCS for HBN 174
Level: LOW
Sample Type: WATER
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b0
Misc Info: ZZ VOMS 41264 D8260W

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	1013164	506582	2026328	955102	-5.73
83 Chlorobenzene-d5	432864	216432	865728	421433	-2.64
108 1,4-Dichlorobenze	273837	136919	547674	249374	-8.93

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
55 Fluorobenzene	3.79	3.29	4.29	3.79	-0.00
83 Chlorobenzene-d5	5.76	5.26	6.26	5.76	-0.00
108 1,4-Dichlorobenze	7.52	7.02	8.02	7.52	-0.08

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: 316102605dod.D Page 5
Report Date: 27-Oct-2016 13:43

ALS Environmental Services

RECOVERY REPORT

Client Name: Client SDG: 3161026.b
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 2429648 Client Smp ID: LCS for HBN 174350
Level: LOW Operator: DD
Data Type: MS DATA SampleType: LCS
SpikeList File: DOD2014.spk Quant Type: ISTD
Sublist File: DODall.sub
Method File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3-8260b0
Misc Info: ZZ VOMS 41264 D8260W

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Dichlorodifluorome	20.0000	16.7781	83.89	32-152
2	Chloromethane	20.0000	19.7958	98.98	50-139
3	Vinyl Chloride	20.0000	19.3461	96.73	58-137
4	Bromomethane	20.0000	20.9030	104.51	53-141
5	Chloroethane	20.0000	20.6418	103.21	60-138
6	Pentane	20.0000	29.1371	145.69*	16-134
7	Trichlorofluoromet	20.0000	19.7794	98.90	65-141
8	Dichlorofluorometh	20.0000	20.8181	104.09	72-131
9	Ethyl Ether	20.0000	19.1022	95.51	71-131
10	1,1-Dichloroethene	20.0000	20.2558	101.28	71-131
11	Freon 113	20.0000	21.2116	106.06	70-136
12	Carbon Disulfide	20.0000	17.8406	89.20	64-133
13	Iodomethane	20.0000	16.9630	84.82	69-131
14	Acrolein	200.000	269.151	134.58	39-155
15	Isopropyl Alcohol	100.000	140.938	140.94	56-142
16	3-Chloro-1-propene	20.0000	23.8826	119.41	59-135
17	Methylene Chloride	20.0000	22.2305	111.15	74-124
18	Acetone	100.000	115.509	115.51	39-160
19	Methyl acetate	20.0000	21.7990	109.00	56-136
20	trans-1,2-Dichloro	20.0000	20.7911	103.96	75-124
21	Hexane	20.0000	22.5074	112.54	48-143
22	Methyl t-Butyl Eth	20.0000	19.7633	98.82	71-124
23	tert.- Butyl Alcoh	100.000	129.293	129.29*	68-129
24	Acetonitrile	100.000	138.131	138.13	50-142
25	Diisopropyl ether	20.0000	21.7689	108.84	67-128
26	Chloroprene	20.0000	22.9303	114.65	62-125
27	1,1-Dichloroethane	20.0000	19.6482	98.24	77-125
28	Acrylonitrile	100.000	116.376	116.38	63-135
29	Ethyl tert-butyl e	20.0000	20.9034	104.52	70-127
30	n-Propanol	200.000	243.633	121.82	19-342
31	Vinyl acetate	20.0000	17.3390	86.69	54-146
32	cis-1,2-Dichloroet	20.0000	19.7357	98.68	78-123
33	2,2-Dichloropropan	20.0000	19.9588	99.79	60-139
34	Bromochloromethane	20.0000	19.1805	95.90	78-123
35	Cyclohexane	20.0000	21.9329	109.66	71-130
36	Chloroform	20.0000	20.6429	103.21	79-124
37	Ethyl acetate	20.0000	22.5591	112.80	55-138
38	Methyl acrylate	20.0000	21.8401	109.20	70-130
39	Carbon Tetrachlori	20.0000	19.1917	95.96	72-136
40	Tetrahydrofuran	100.000	115.972	115.97	57-133

Data File: 316102605dod.D Page 6
Report Date: 27-Oct-2016 13:43

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
42	1,1,1-Trichloroeth	20.0000	20.2600	101.30	74-131
43	2-Butanone	100.000	112.559	112.56	56-143
44	1,1-Dichloropropen	20.0000	20.8234	104.12	79-125
45	1-Chlorobutane	20.0000	24.4371	122.19	70-130
46	Heptane	20.0000	25.7417	128.71	49-140
47	Benzene	20.0000	19.6181	98.09	79-120
48	Propionitrile	100.000	116.479	116.48	64-136
49	Methacrylonitrile	20.0000	21.1550	105.78	63-133
50	tert-amyl methyl E	20.0000	20.1925	100.96	68-128
54	Isobutyl alcohol	200.000	322.639	161.32*	63-133
52	1,2-Dichloroethane	20.0000	19.6290	98.15	73-128
53	tert-Amyl Alcohol	100.000	112.787	112.79	68-130
56	Diisobutylene	20.0000	25.4118	127.06	60-137
57	Trichloroethene	20.0000	19.3332	96.67	79-123
58	Methyl cyclohexane	20.0000	20.8520	104.26	72-132
59	tert-Amyl Ethyleth	20.0000	20.3489	101.74	70-130
60	Dibromomethane	20.0000	18.8095	94.05	79-123
61	1,2-Dichloropropan	20.0000	20.2862	101.43	78-122
62	Bromodichlorometha	20.0000	18.9187	94.59	79-125
63	Methyl methacrylat	20.0000	22.0501	110.25	67-128
64	1,4-Dioxane	500.000	995.536	199.11*	59-139
65	2-Chloroethylvinyl	20.0000	19.2489	96.24	51-139
66	cis-1,3-Dichloropr	20.0000	18.5816	92.91	75-124
67	Octane	20.0000	23.4110	117.06	58-127
69	Toluene	20.0000	19.7611	98.81	80-121
70	Chloroacetonitrile	100.000	109.585	109.58	80-120
71	2-Nitropropane	100.000	91.9305	91.93	49-136
73	4-Methyl-2-Pentano	100.000	113.161	113.16	67-130
72	1,1-Dichloro-2-pro	100.000	99.6495	99.65	70-130
74	Tetrachloroethene	20.0000	22.5158	112.58	74-129
75	trans-1,3-Dichloro	20.0000	19.7108	98.55	73-127
76	Ethyl methacrylate	20.0000	21.3046	106.52	72-126
77	1,1,2-Trichloroeth	20.0000	19.0434	95.22	80-119
78	Chlorodibromometha	20.0000	17.6151	88.08	74-126
79	1,3-Dichloropropan	20.0000	18.8214	94.11	80-119
80	1,2-Dibromoethane	20.0000	18.9175	94.59	77-121
81	2-Hexanone	100.000	114.047	114.05	57-139
82	1-Chlorohexane	20.0000	19.8994	99.50	76-124
84	Chlorobenzene	20.0000	17.9545	89.77	82-118
85	Ethylbenzene	20.0000	18.6448	93.22	79-121
88	o-Xylene	20.0000	19.6013	98.01	78-122
86	1,1,1,2-Tetrachlor	20.0000	19.3502	96.75	78-124
87	mp-Xylene	40.0000	38.3269	95.82	80-121
89	Styrene	20.0000	20.4321	102.16	78-123
90	Bromoform	20.0000	16.5415	82.71	66-130
91	Isopropylbenzene	20.0000	20.5403	102.70	72-131
93	Bromobenzene	20.0000	18.8863	94.43	80-120
94	n-Propylbenzene	20.0000	20.7803	103.90	76-126
95	1,1,2,2-Tetrachlor	20.0000	20.0461	100.23	71-121
96	o-Chlorotoluene	20.0000	20.8195	104.10	79-122
97	1,3,5-Trimethylben	20.0000	21.6197	108.10	75-124
98	1,2,3-Trichloropro	20.0000	19.6977	98.49	73-122
M 100	1,2-Dichloroethene	40.0000	40.5268	101.32	78-123
99	trans-1,4-Dichloro	20.0000	21.0689	105.34	43-140

Data File: 316102605dod.D Page 7
Report Date: 27-Oct-2016 13:43

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	101 p-Chlorotoluene	20.0000	20.5575	102.79	78-122
	102 tert-Butylbenzene	20.0000	20.6795	103.40	78-124
	103 Pentachloroethane	20.0000	19.5306	97.65	69-133
	104 1,2,4-Trimethylben	20.0000	21.3627	106.81	76-124
	105 sec-Butylbenzene	20.0000	21.2901	106.45	77-126
	106 p-Isopropyltoluene	20.0000	20.7755	103.88	77-127
	107 1,3-Dichlorobenzen	20.0000	20.6119	103.06	80-119
	109 1,4-Dichlorobenzen	20.0000	20.8872	104.44	79-118
	110 Benzyl Chloride	20.0000	15.6565	78.28	42-138
	111 n-Butylbenzene	20.0000	20.2492	101.25	75-128
	112 Hexachloroethane	20.0000	17.4721	87.36	72-134
	113 1,2-Dichlorobenzen	20.0000	20.4657	102.33	80-119
	114 1,2-Dibromo-3-chlo	20.0000	19.4744	97.37	62-128
	115 Nitrobenzene	200.000	266.595	133.30	23-139
	116 Hexachlorobutadien	20.0000	20.9808	104.90	66-134
	117 1,2,4-Trichloroben	20.0000	18.7790	93.90	69-130
	118 Naphthalene	20.0000	16.4586	82.29	61-128
M	120 1,3-Dichloropropen	40.0000	38.2924	95.73	75-124
	119 1,2,3-Trichloroben	20.0000	19.1185	95.59	69-129
M	121 TOTAL XYLENES	60.0000	57.9282	96.55	79-121

	SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$	41 Dibromofluorometha	30.0000	25.1696	83.90	80-119
$	51 1,2-Dichloroethane	30.0000	31.2691	104.23	81-118
$	68 Toluene-d8	30.0000	26.8274	89.42	89-112
$	92 4-Bromofluorobenze	30.0000	27.6254	92.08	85-114

Data File: 316102605dod.D Page 8
Report Date: 27-Oct-2016 13:43

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2429648
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41264 D8260W

Client SDG: 3161026.b
Client Smp ID: LCS for HBN 174350
Sample Point:
Date Received: 26-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: DD

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
75-71-8	Dichlorodifluoromethane	16.7781	
74-87-3	Chloromethane	19.7958	
75-01-4	Vinyl Chloride	19.3461	
74-83-9	Bromomethane	20.9030	
75-00-3	Chloroethane	20.6418	
109-66-0	Pentane	29.1371	
75-69-4	Trichlorofluoromethane	19.7794	
75-43-4	Dichlorofluoromethane	20.8181	
60-29-7	Ethyl Ether	19.1022	
75-35-4	1,1-Dichloroethene	20.2558	
75-15-0	Carbon Disulfide	17.8406	
76-13-1	Freon 113	21.2116	
74-88-4	Iodomethane	16.9630	
107-02-8	Acrolein	269.151	
107-05-1	3-Chloro-1-propene	23.8826	
67-63-0	Isopropyl Alcohol	140.938	
75-09-2	Methylene Chloride	22.2305	
67-64-1	Acetone	115.509	
79-20-9	Methyl acetate	21.7990	
156-60-5	trans-1,2-Dichloroethene	20.7911	
110-54-3	Hexane	22.5074	
1634-04-4	Methyl t-Butyl Ether	19.7633	
75-65-0	tert.- Butyl Alcohol	129.293	
75-05-8	Acetonitrile	138.131	
108-20-3	Diisopropyl ether	21.7689	
126-99-8	Chloroprene	22.9303	
75-34-3	1,1-Dichloroethane	19.6482	
107-13-1	Acrylonitrile	116.376	
71-23-8	n-Propanol	243.633	
637-92-3	Ethyl tert-butyl ether	20.9034	
108-05-4	Vinyl acetate	17.3390	
156-59-2	cis-1,2-Dichloroethene	19.7357	
594-20-7	2,2-Dichloropropane	19.9588	
540-59-0	1,2-Dichloroethene, Total	40.5268	
74-97-5	Bromochloromethane	19.1805	
110-82-7	Cyclohexane	21.9329	
67-66-3	Chloroform	20.6429	
141-78-6	Ethyl acetate	22.5591	
96-33-3	Methyl acrylate	21.8401	
56-23-5	Carbon Tetrachloride	19.1917	
109-99-9	Tetrahydrofuran	115.972	
71-55-6	1,1,1-Trichloroethane	20.2600	

Data File: 316102605dod.D Page 9
Report Date: 27-Oct-2016 13:43

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2429648
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41264 D8260W

Client SDG: 3161026.b
Client Smp ID: LCS for HBN 174350
Sample Point:
Date Received: 26-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: DD

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
78-93-3	2-Butanone	112.559	
563-58-6	1,1-Dichloropropene	20.8234	
109-69-3	1-Chlorobutane	24.4371	
142-82-5	Heptane	25.7417	
107-12-0	Propionitrile	116.479	
71-43-2	Benzene	19.6181	
126-98-7	Methacrylonitrile	21.1550	
994-05-8	tert-amyl methyl Ether	20.1925	
78-83-1	Isobutyl alcohol	322.639	
107-06-2	1,2-Dichloroethane	19.6290	
75-85-4	tert-Amyl Alcohol	112.787	
107-39-1	Diisobutylene	25.4118	
79-01-6	Trichloroethene	19.3332	
108-87-2	Methyl cyclohexane	20.8520	
919-94-8	tert-Amyl Ethylether	20.3489	
74-95-3	Dibromomethane	18.8095	
78-87-5	1,2-Dichloropropane	20.2862	
75-27-4	Bromodichloromethane	18.9187	
80-62-6	Methyl methacrylate	22.0501	
123-91-1	1,4-Dioxane	995.536	
110-75-8	2-Chloroethylvinyl ether	19.2489	
10061-01-5	cis-1,3-Dichloropropene	18.5816	
111-65-9	Octane	23.4110	
108-88-3	Toluene	19.7611	
107-14-2	Chloroacetonitrile	109.585	
79-46-9	2-Nitropropane	91.9305	
513-88-2	1,1-Dichloro-2-propanone	99.6495	
108-10-1	4-Methyl-2-Pentanone(MIBK)	113.161	
10061-02-6	trans-1,3-Dichloropropene	19.7108	
127-18-4	Tetrachloroethene	22.5158	
97-63-2	Ethyl methacrylate	21.3046	
79-00-5	1,1,2-Trichloroethane	19.0434	
124-48-1	Chlorodibromomethane	17.6151	
142-28-9	1,3-Dichloropropane	18.8214	
106-93-4	1,2-Dibromoethane	18.9175	
591-78-6	2-Hexanone	114.047	
544-10-5	1-Chlorohexane	19.8994	
100-41-4	Ethylbenzene	18.6448	
108-90-7	Chlorobenzene	17.9545	
630-20-6	1,1,1,2-Tetrachloroethane	19.3502	
108383/106423	m,p-Xylene	38.3269	
542-75-6	1,3-Dichloropropene, Total	38.2924	

Data File: 316102605dod.D Page 10
Report Date: 27-Oct-2016 13:43

ALS Environmental Services

TARGET COMPOUNDS

Client Name:
Lab Smp Id: 2429648
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: VOA
Data Type: MS DATA
Misc Info: ZZ VOMS 41264 D8260W

Client SDG: 3161026.b
Client Smp ID: LCS for HBN 174350
Sample Point:
Date Received: 26-OCT-2016
Quant Type: ISTD
Level: LOW
Operator: DD

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
95-47-6	o-Xylene	19.6013	
100-42-5	Styrene	20.4321	
75-25-2	Bromoform	16.5415	
98-82-8	Isopropylbenzene	20.5403	
1330-20-7	TOTAL XYLENES	57.9282	
103-65-1	n-Propylbenzene	20.7803	
108-86-1	Bromobenzene	18.8863	
79-34-5	1,1,2,2-Tetrachloroethane	20.0461	
108-67-8	1,3,5-Trimethylbenzene	21.6197	
95-49-8	o-Chlorotoluene	20.8195	
96-18-4	1,2,3-Trichloropropane	19.6977	
110-57-6	trans-1,4-Dichloro-2-butene	21.0689	
106-43-4	p-Chlorotoluene	20.5575	
98-06-6	tert-Butylbenzene	20.6795	
76-01-7	Pentachloroethane	19.5306	
95-63-6	1,2,4-Trimethylbenzene	21.3627	
135-98-8	sec-Butylbenzene	21.2901	
99-87-6	p-Isopropyltoluene	20.7755	
541-73-1	1,3-Dichlorobenzene	20.6119	
106-46-7	1,4-Dichlorobenzene	20.8872	
104-51-8	n-Butylbenzene	20.2492	
100-44-7	Benzyl Chloride	15.6565	
67-72-1	Hexachloroethane	17.4721	
95-50-1	1,2-Dichlorobenzene	20.4657	
96-12-8	1,2-Dibromo-3-chloropropane	19.4744	
98-95-3	Nitrobenzene	266.595	
87-68-3	Hexachlorobutadiene	20.9808	
120-82-1	1,2,4-Trichlorobenzene	18.7790	
91-20-3	Naphthalene	16.4586	
87-61-6	1,2,3-Trichlorobenzene	19.1185	
1868-53-7	Dibromofluoromethane	25.1696	
17060-07-0	1,2-Dichloroethane-d4	31.2691	
2037-26-5	Toluene-d8	26.8274	
460-00-4	4-Bromofluorobenzene	27.6254	

Data File: 316102605dod.D Page 11
Report Date: 27-Oct-2016 13:43

ALS Environmental Services

TENTATIVELY IDENTIFIED COMPOUNDS

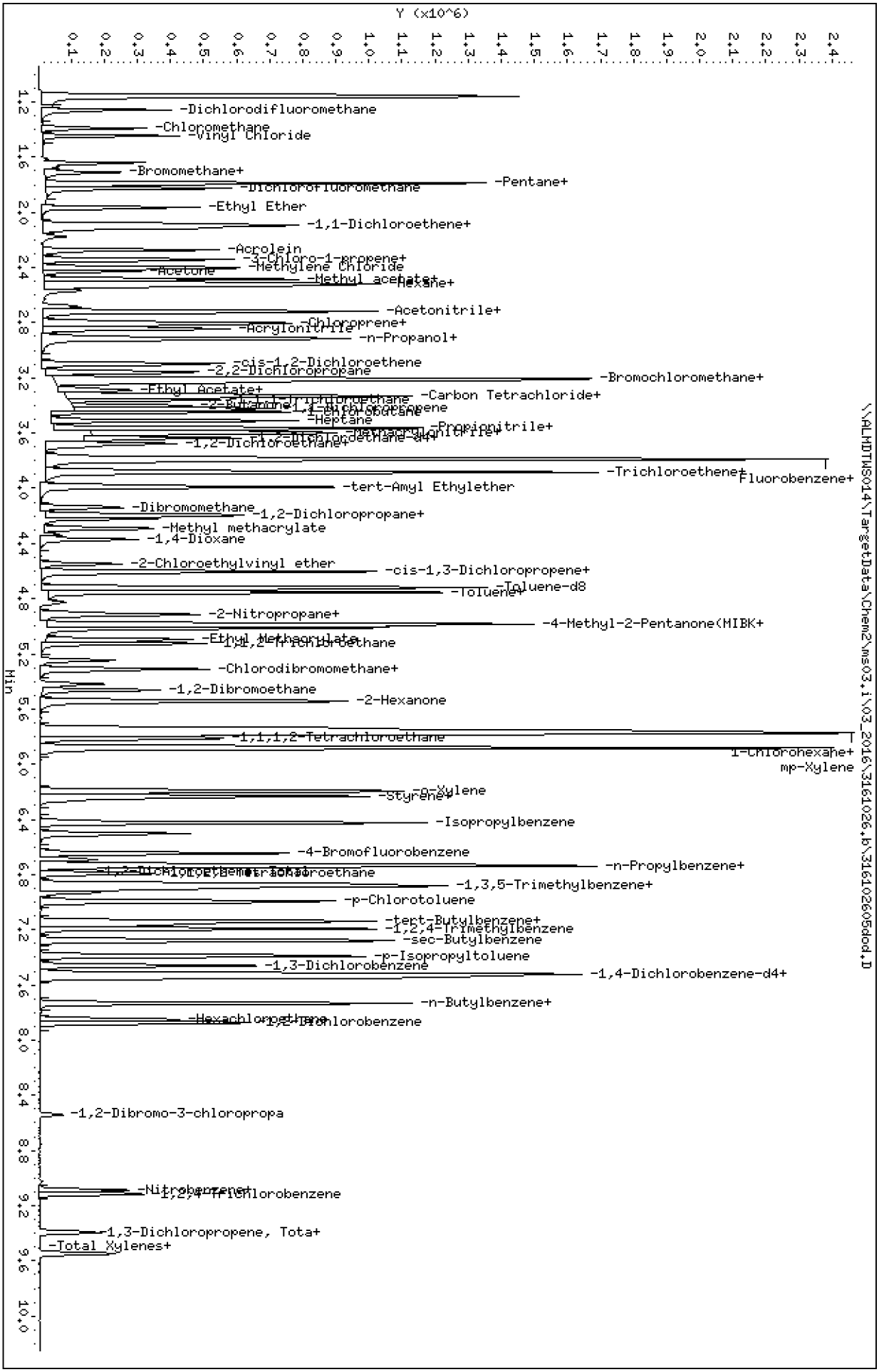
Client Name:
Lab Smp Id: 2429648
Operator : DD
Sample Location:
Sample Matrix: WATER
Analysis Type: VOA
Inj Date: 26-OCT-2016 10:55

Client SDG: 3161026.b
Client Smp ID: LCS for HBN 174350
Sample Date:
Sample Point:
Date Received:26-OCT-2016 00:00
Level: LOW

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/KG) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	1.160	17.1901	_J__



Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3161026005dod.D
Date : 26-OCT-2016 10:55
Client ID: LCS for HBN 174350
Sample Info: 2429648;;1;3;;LCS;1;
Purge Volume: 5.0
Column phase: DB-VRX

\\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\3161026005dod.D
Instrument: ms03.i
Operator: DD
Column diameter: 0.25

Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 13

Date : 26-OCT-2016 10:55

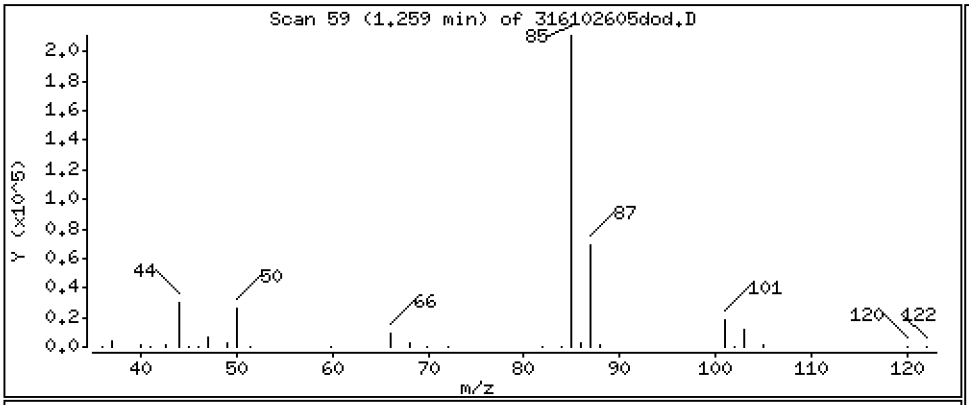
Client ID: LCS for HBN 174350 Instrument: ms03.i

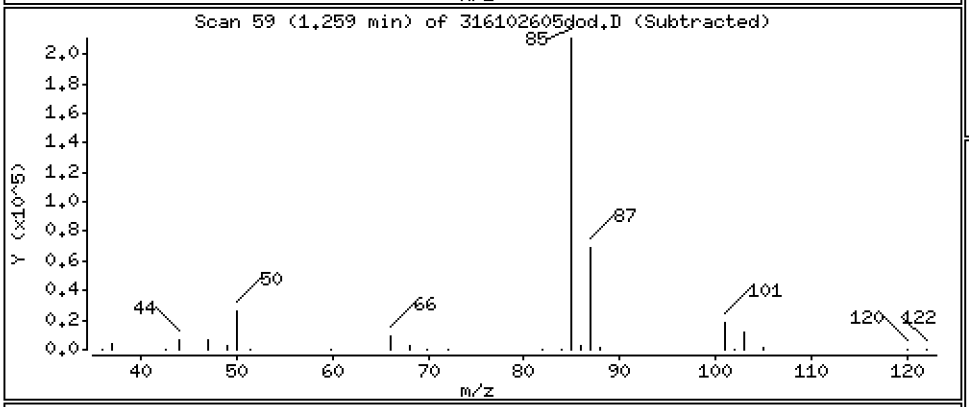
Sample Info: 2429648;;1;3;;LCS;1;

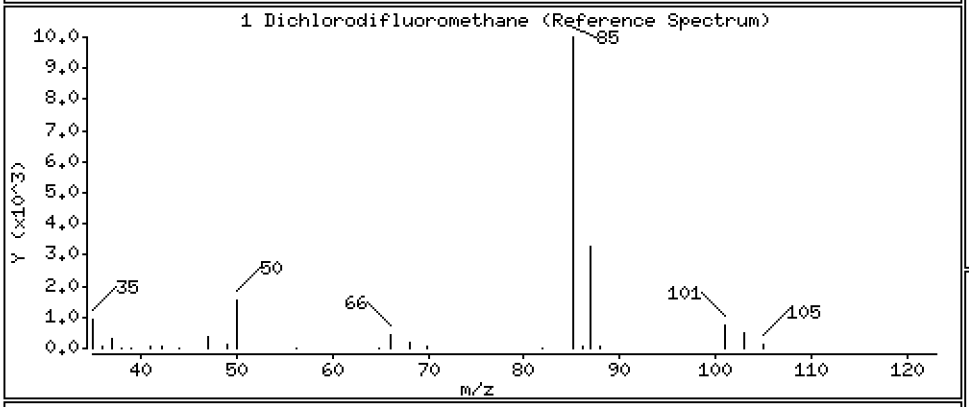
Purge Volume: 5.0 Operator: DD

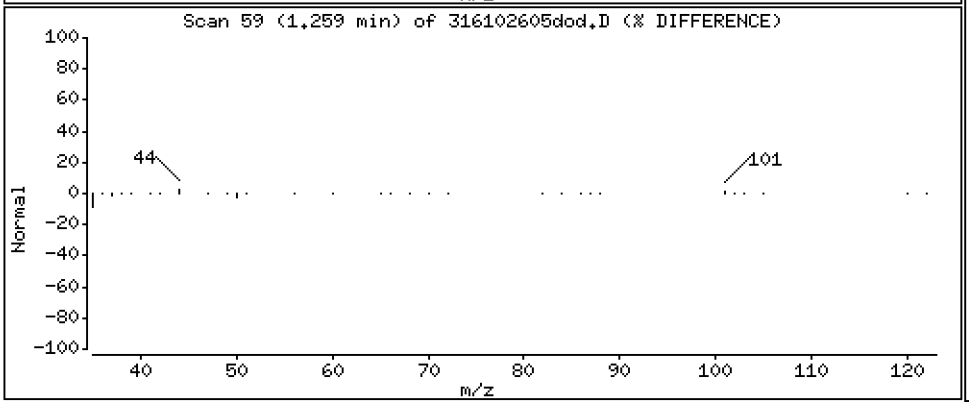
Column phase: DB-VRX Column diameter: 0.25

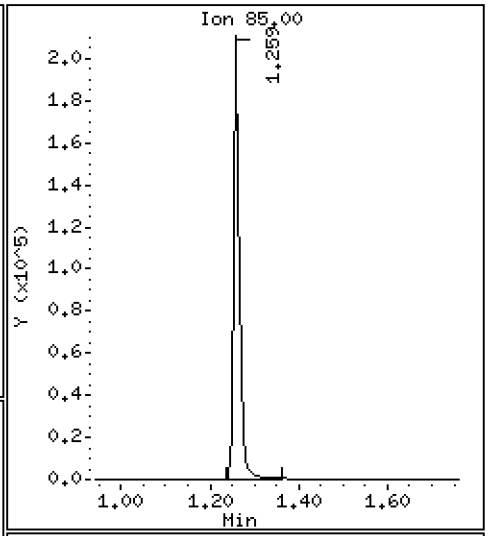
1 Dichlorodifluoromethane Concentration: 16.7781 ug/L

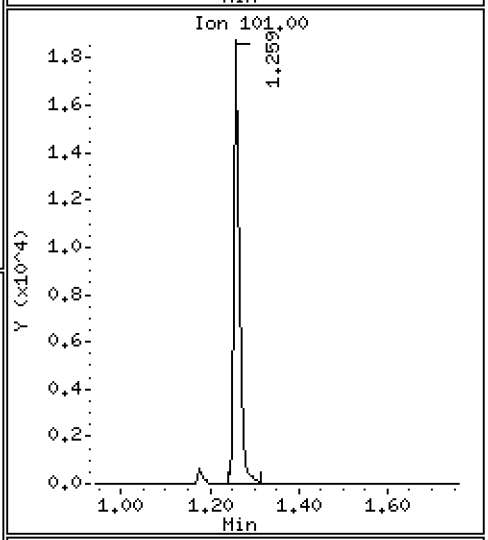


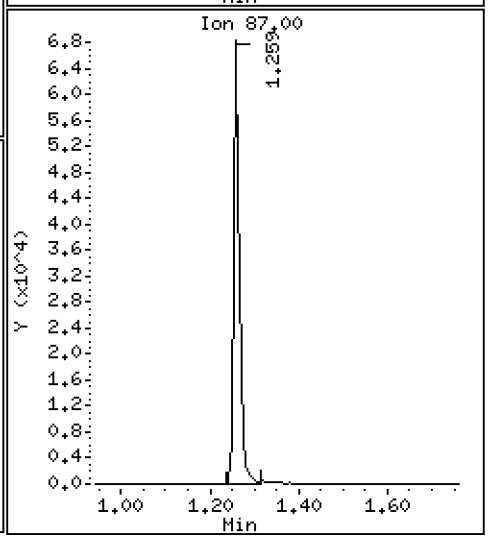












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 14

Date : 26-OCT-2016 10:55

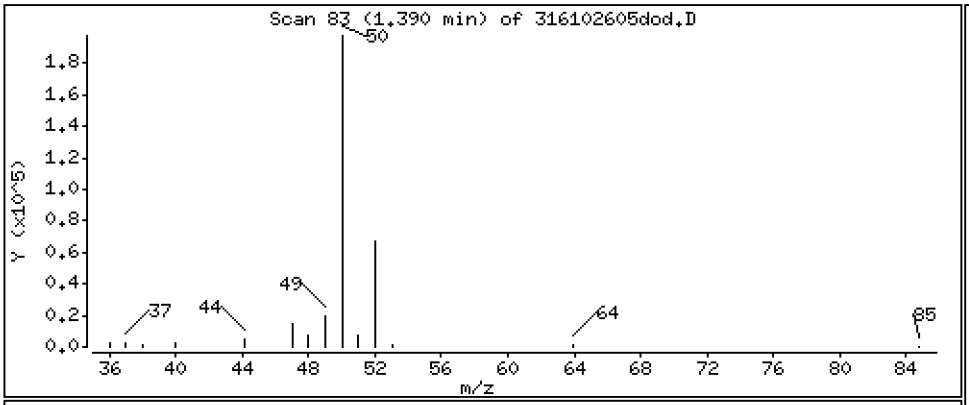
Client ID: LCS for HBN 174350 Instrument: ms03.i

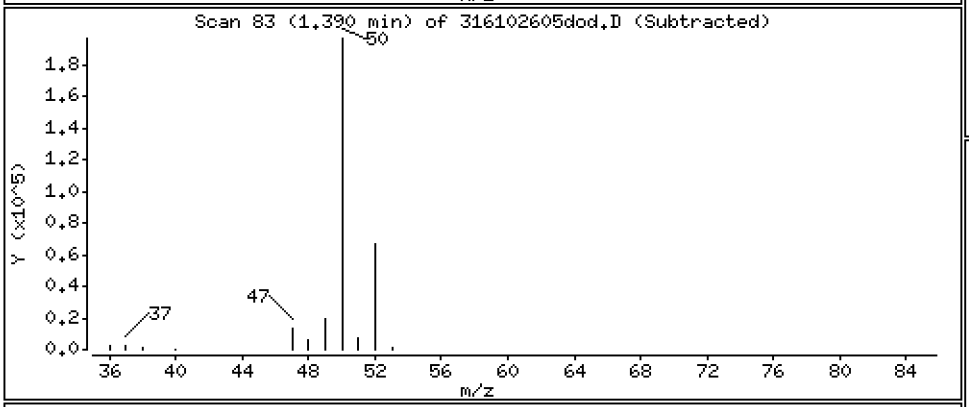
Sample Info: 2429648;;1;3;;LCS;1;

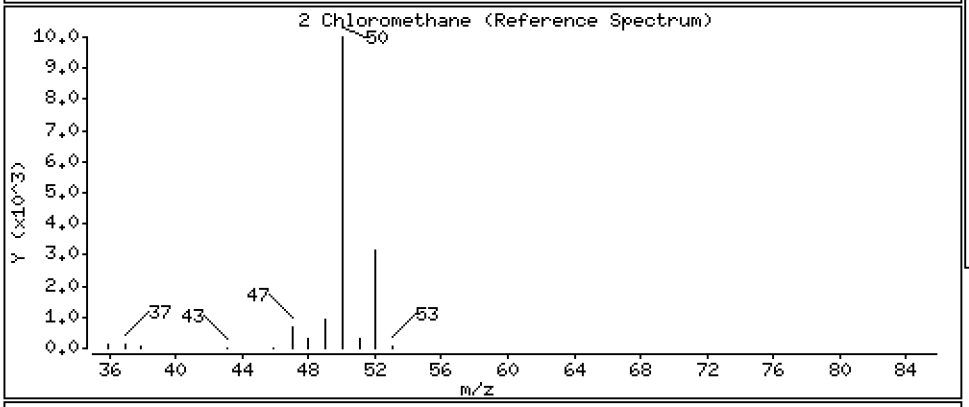
Purge Volume: 5.0 Operator: DD

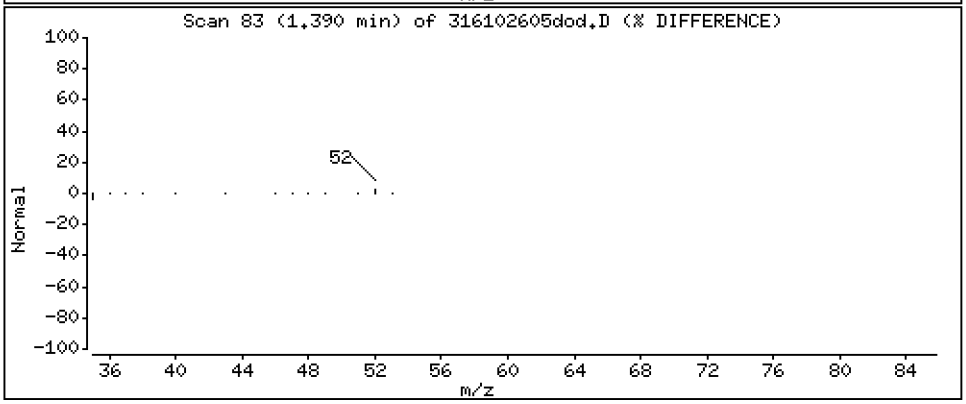
Column phase: DB-VRX Column diameter: 0.25

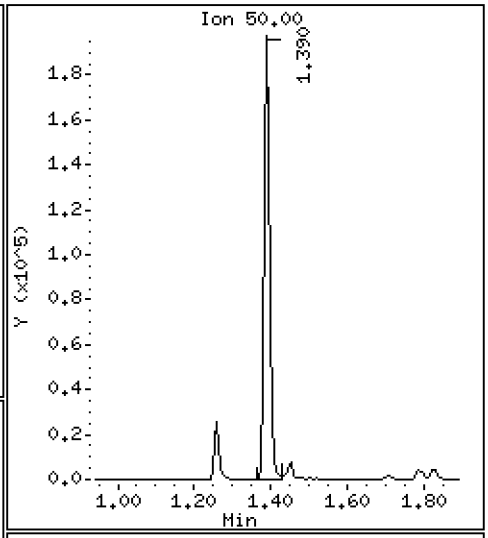
2 Chloromethane Concentration: 19.7958 ug/L

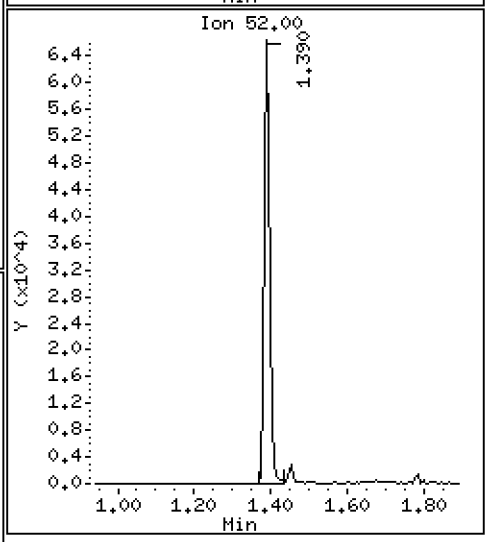












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 15

Date : 26-OCT-2016 10:55

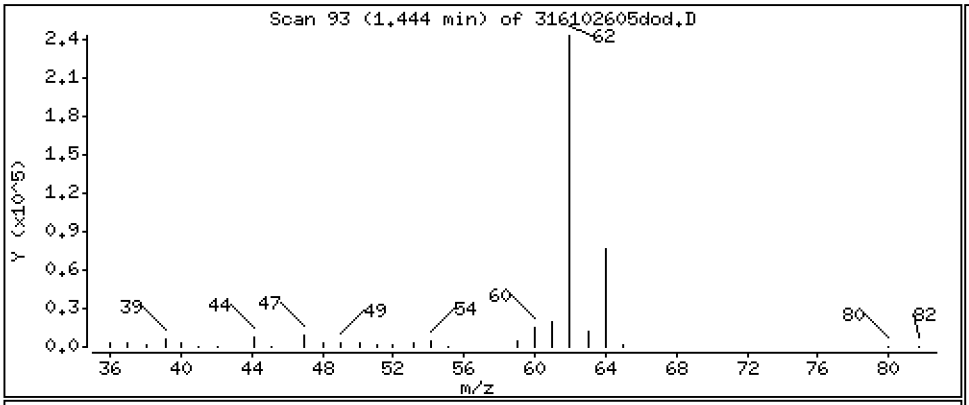
Client ID: LCS for HBN 174350 Instrument: ms03.i

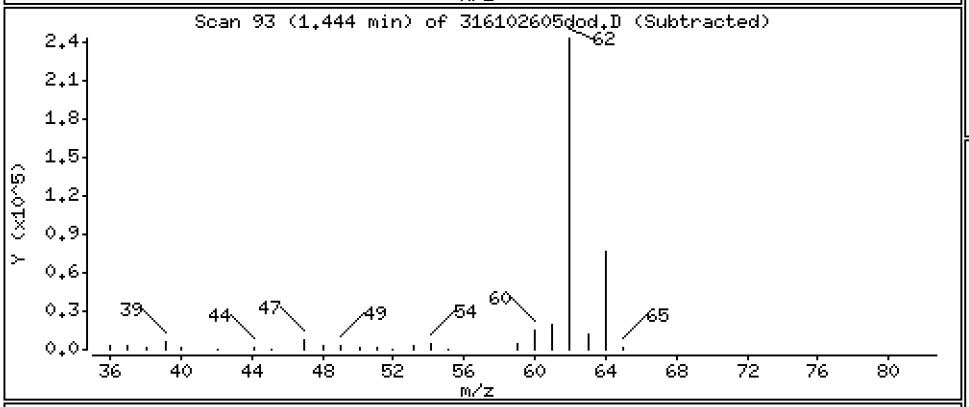
Sample Info: 2429648;;1;3;;LCS;1;

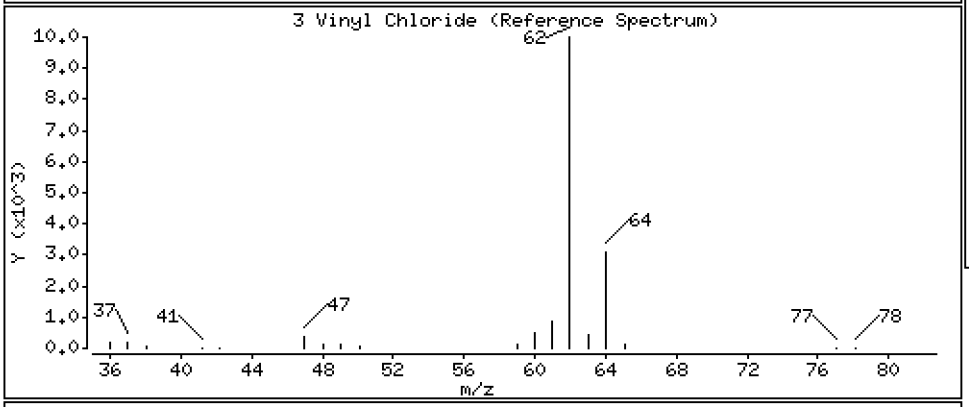
Purge Volume: 5.0 Operator: DD

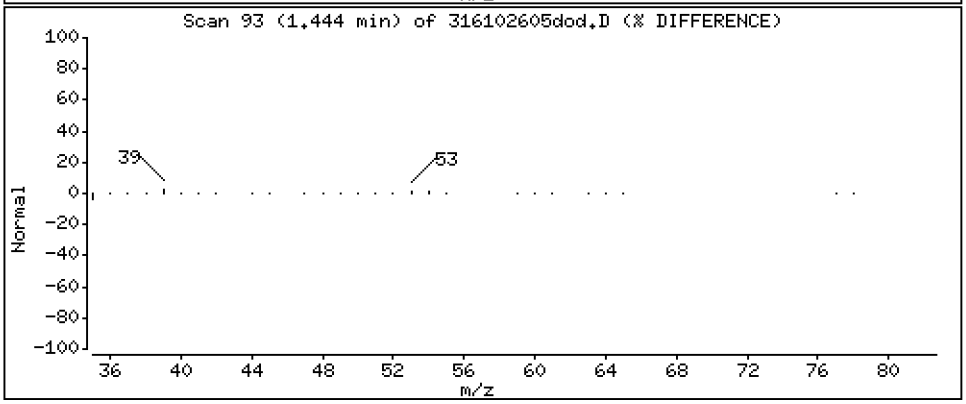
Column phase: DB-VRX Column diameter: 0.25

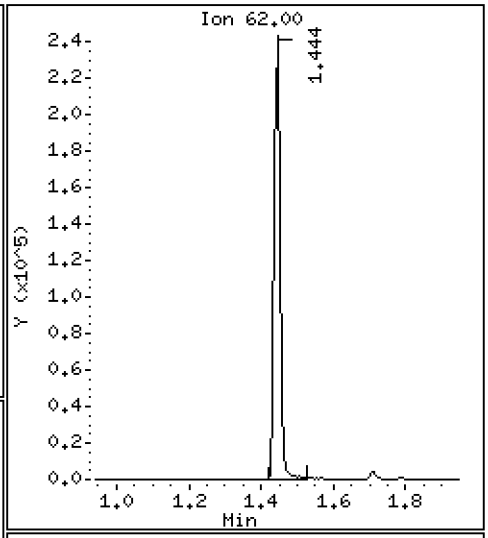
3 Vinyl Chloride Concentration: 19.3461 ug/L

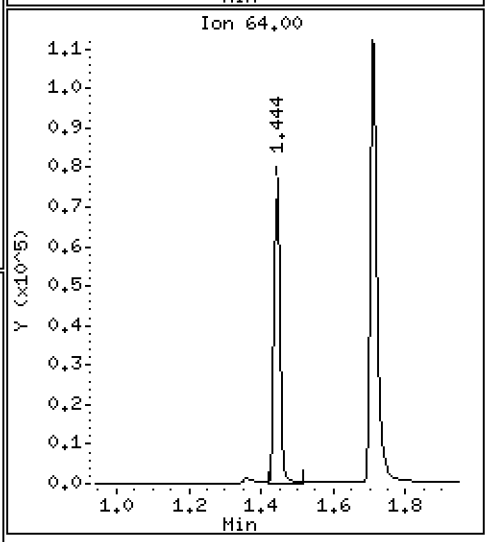












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 16

Date : 26-OCT-2016 10:55

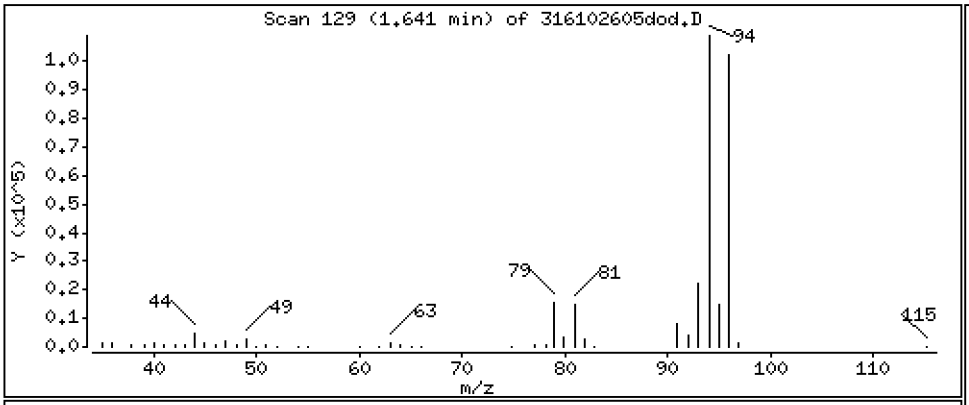
Client ID: LCS for HBN 174350 Instrument: ms03.i

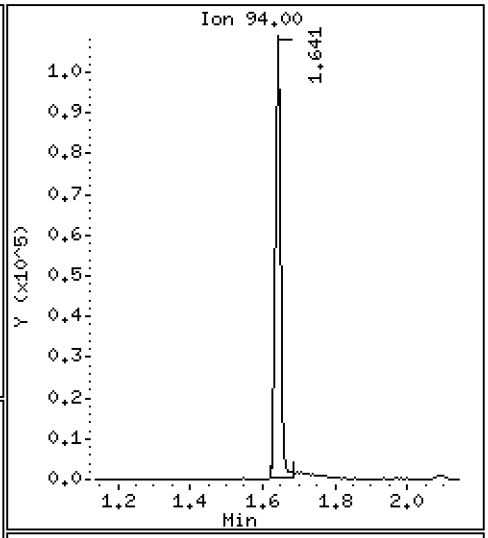
Sample Info: 2429648;;1;3;;LCS;1;

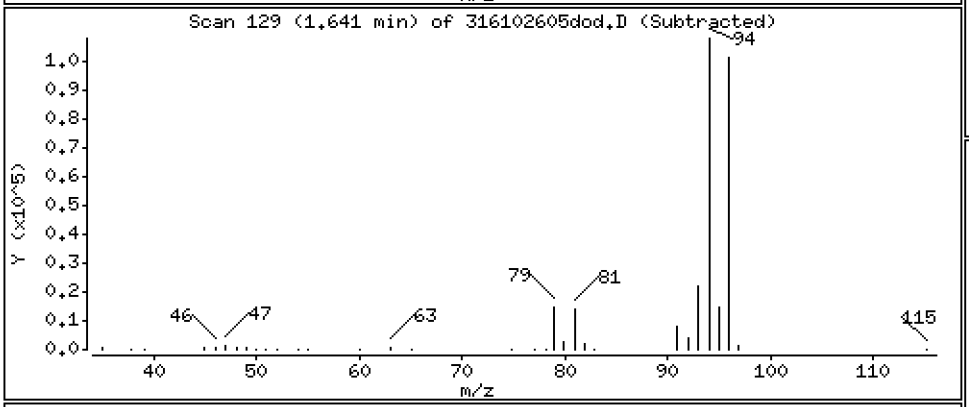
Purge Volume: 5.0 Operator: DD

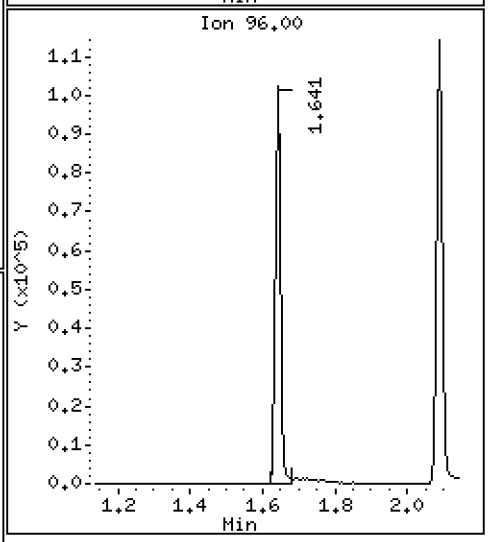
Column phase: DB-VRX Column diameter: 0.25

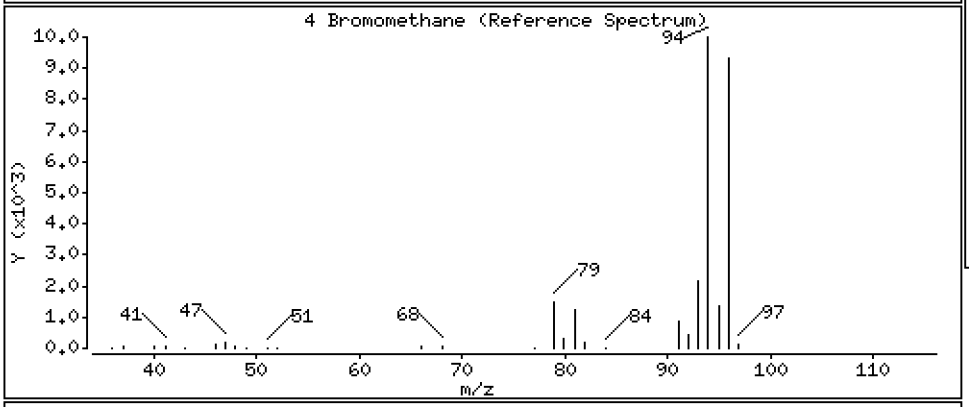
4 Bromomethane Concentration: 20.9030 ug/L

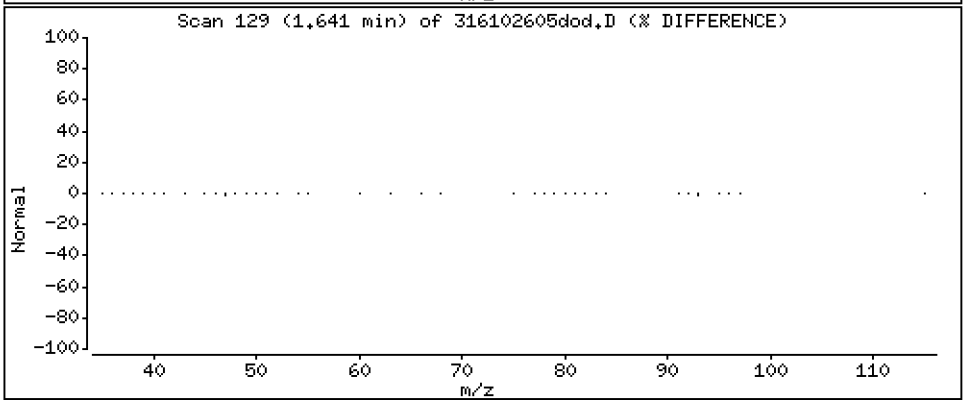












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 17

Date : 26-OCT-2016 10:55

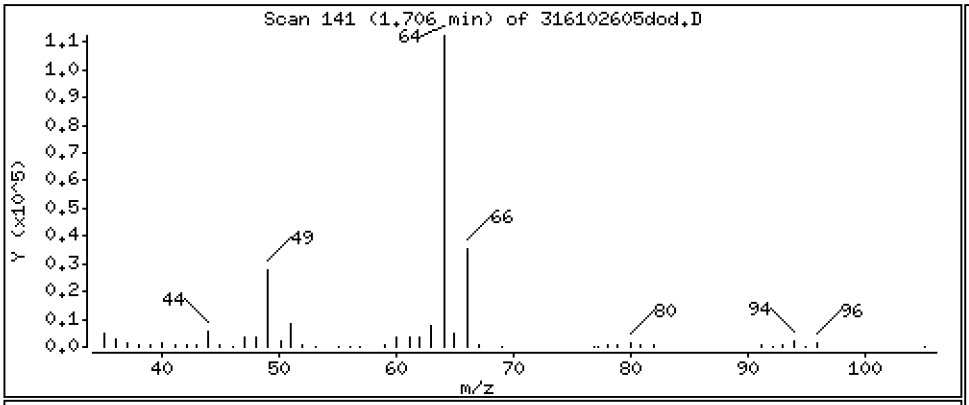
Client ID: LCS for HBN 174350 Instrument: ms03.i

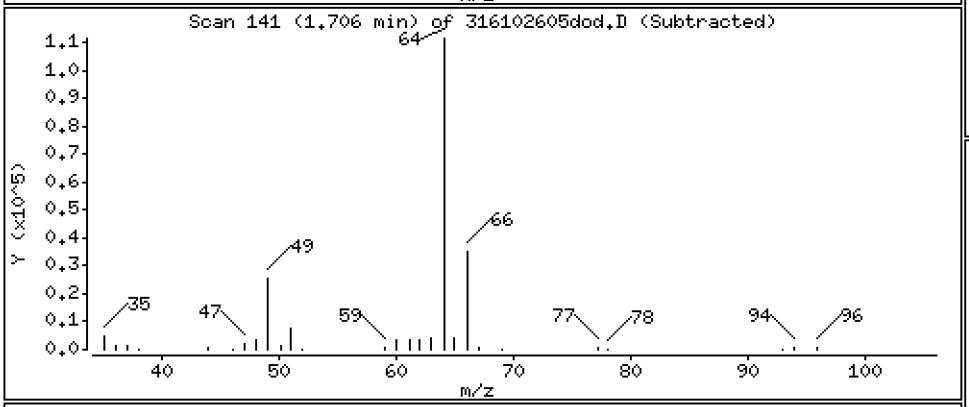
Sample Info: 2429648;;1;3;;LCS;1;

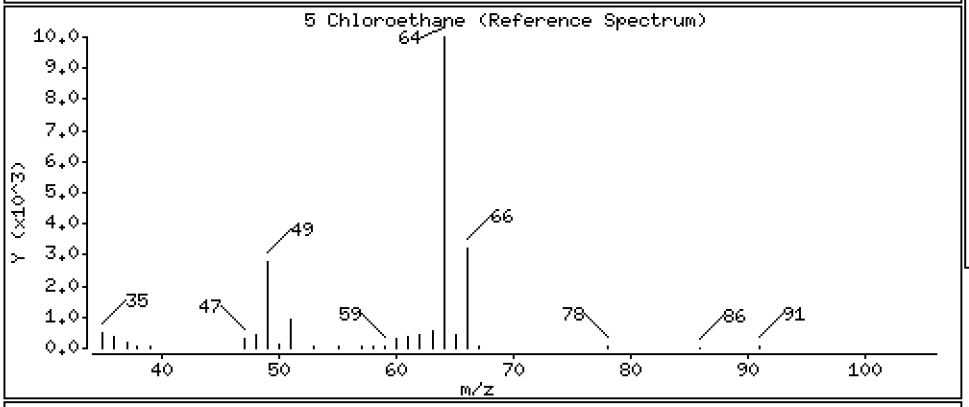
Purge Volume: 5.0 Operator: DD

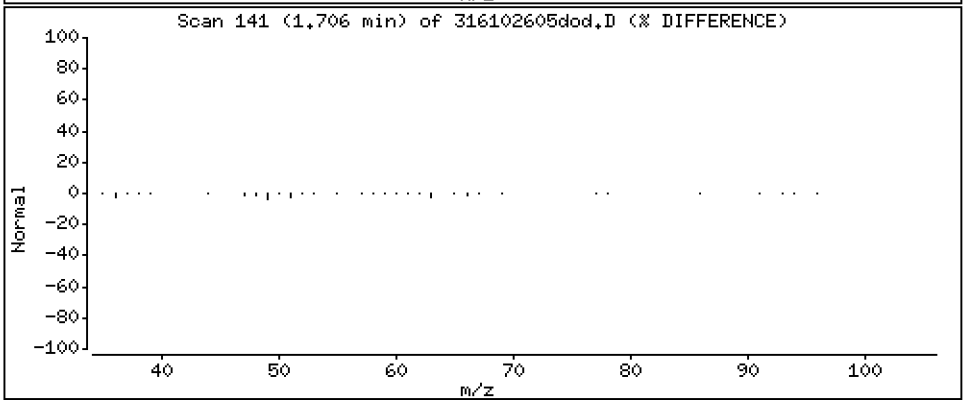
Column phase: DB-VRX Column diameter: 0.25

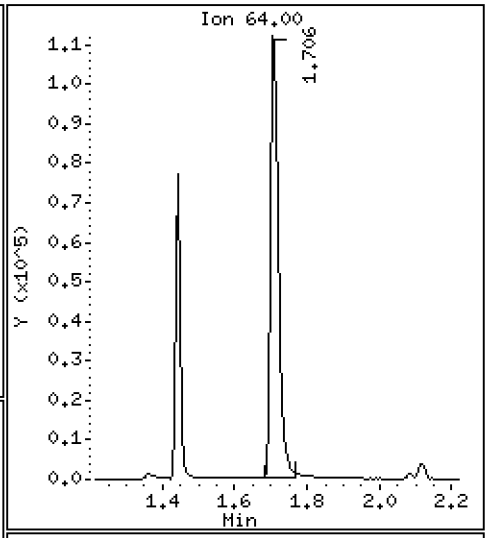
5 Chloroethane Concentration: 20.6418 ug/L

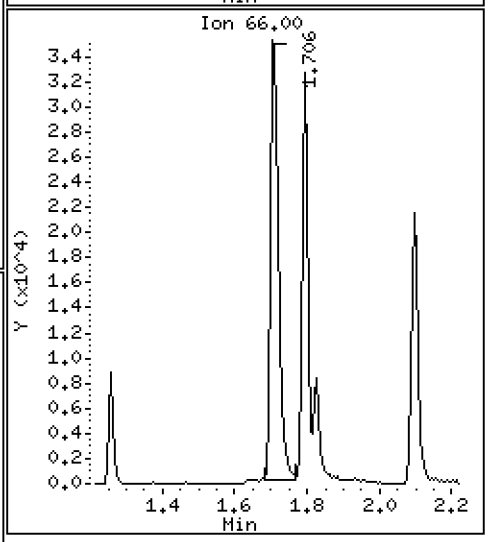












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 18

Date : 26-OCT-2016 10:55

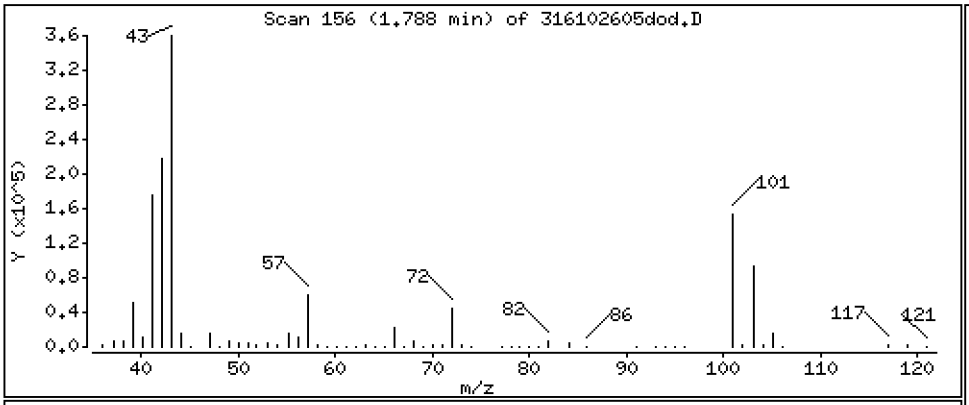
Client ID: LCS for HBN 174350 Instrument: ms03.i

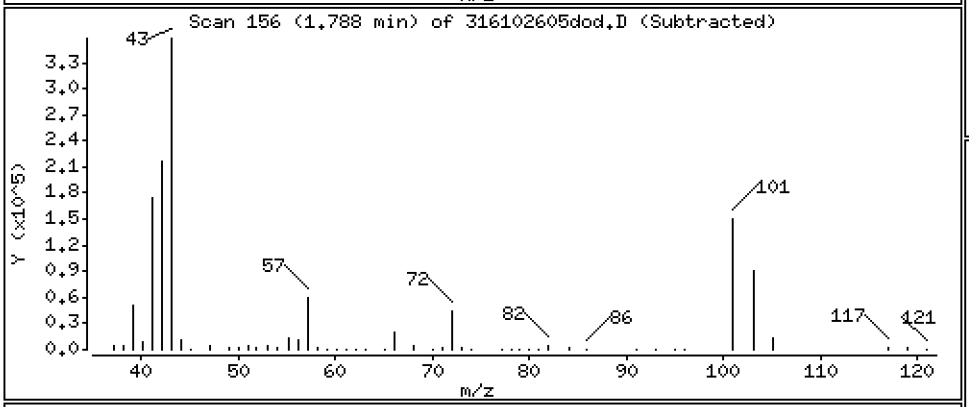
Sample Info: 2429648;;1;3;;LCS;1;

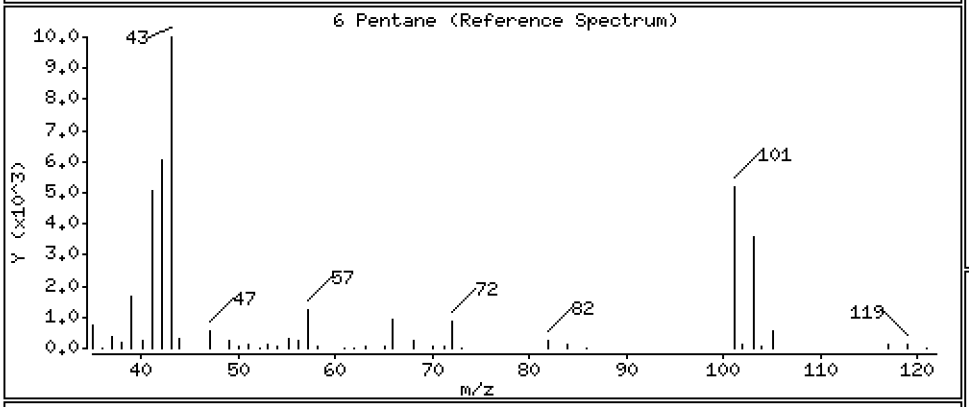
Purge Volume: 5.0 Operator: DD

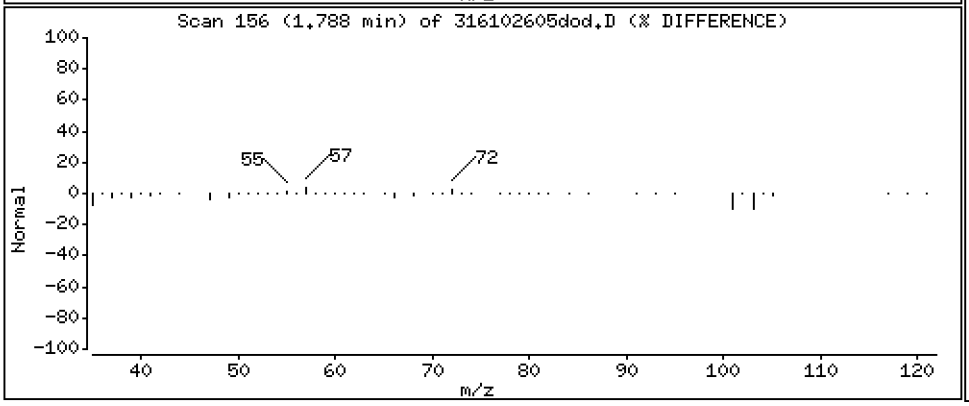
Column phase: DB-VRX Column diameter: 0.25

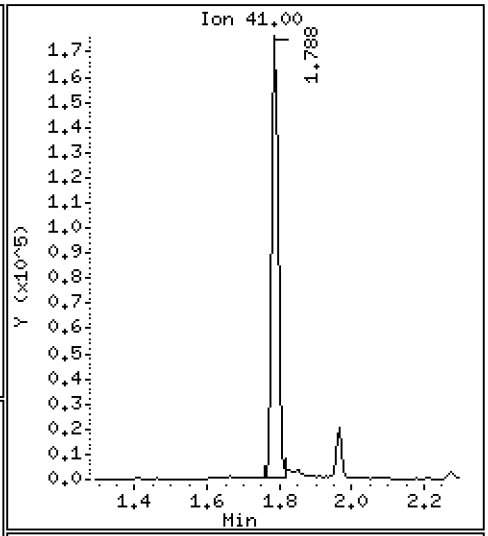
6 Pentane Concentration: 29.1371 ug/L

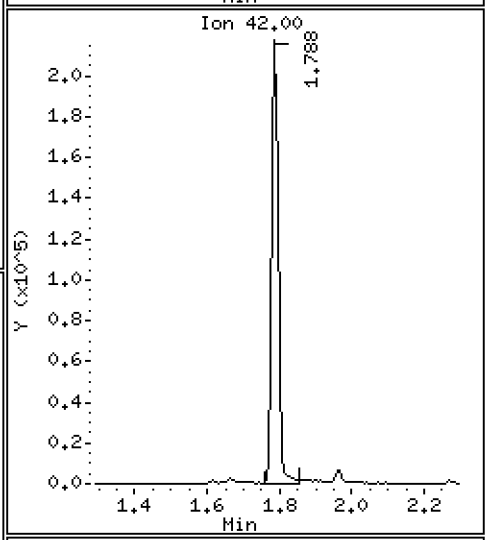


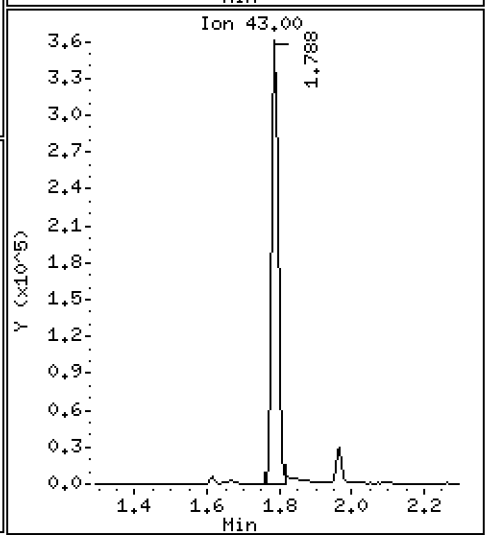












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 19

Date : 26-OCT-2016 10:55

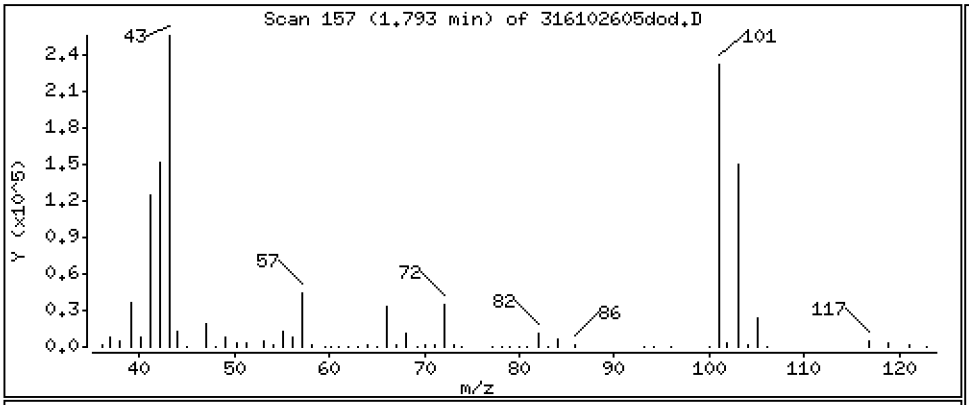
Client ID: LCS for HBN 174350 Instrument: ms03.i

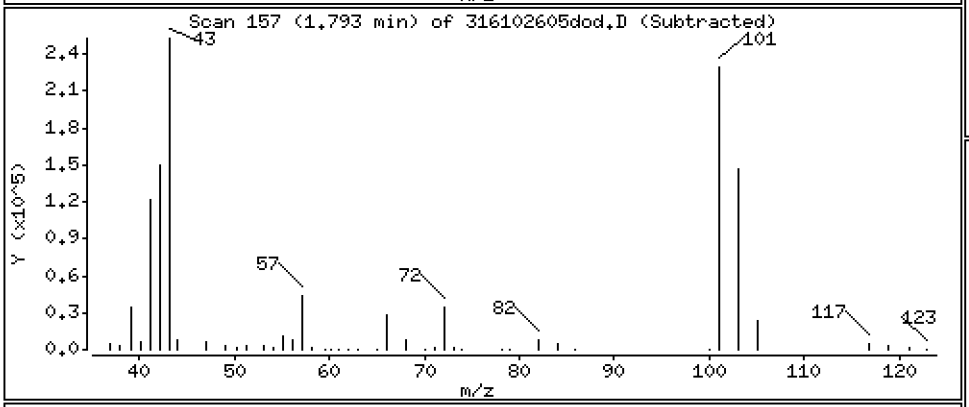
Sample Info: 2429648;;1;3;;LCS;1;

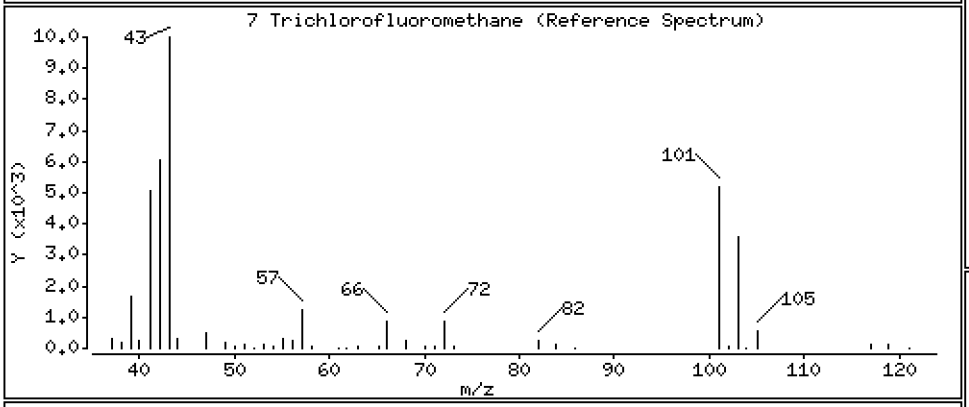
Purge Volume: 5.0 Operator: DD

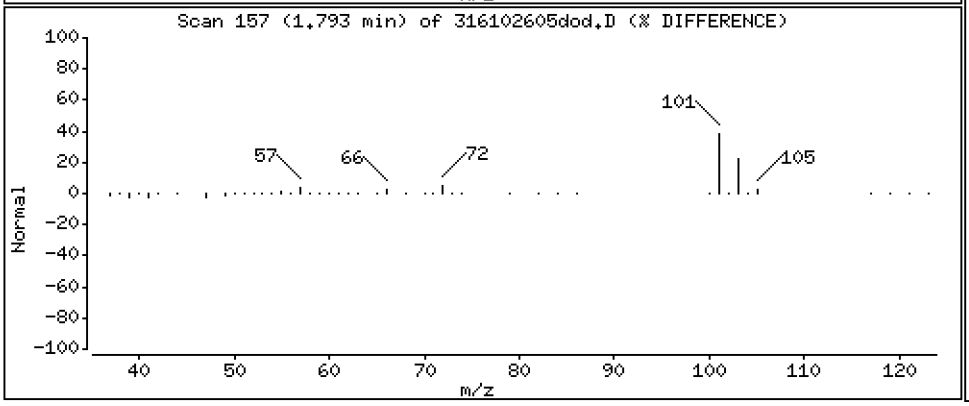
Column phase: DB-VRX Column diameter: 0.25

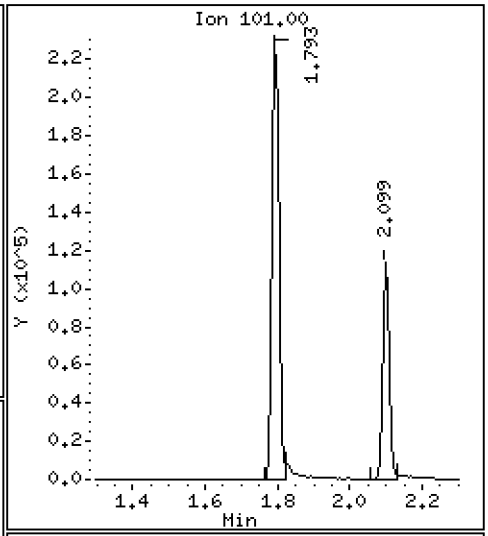
7 Trichlorofluoromethane Concentration: 19.7794 ug/L

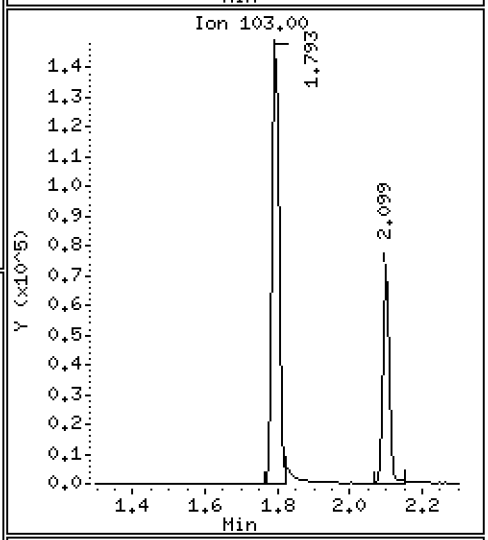


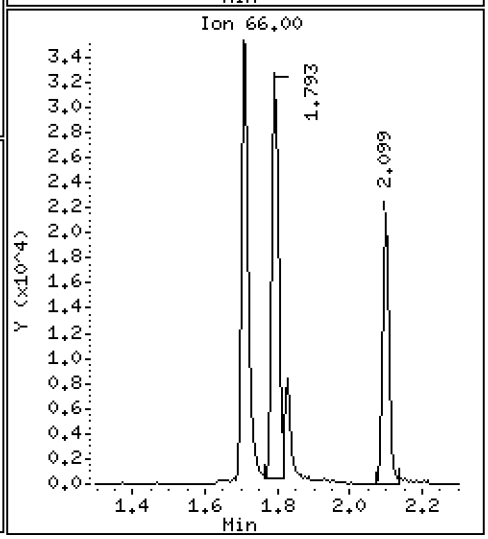












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 20

Date : 26-OCT-2016 10:55

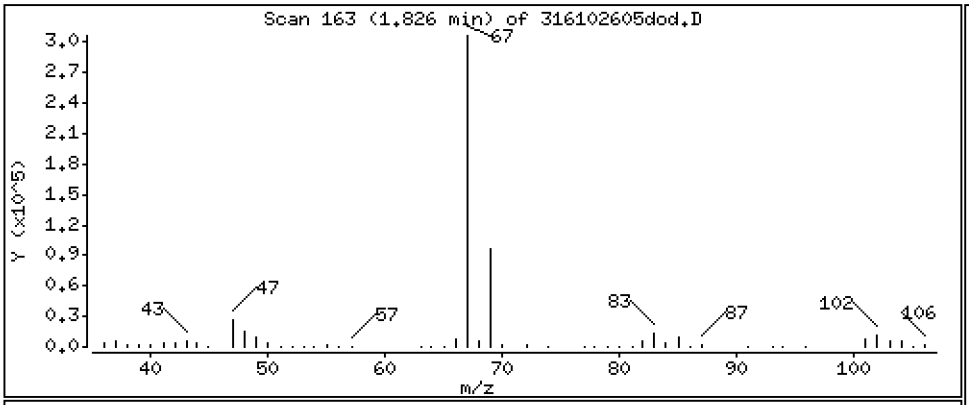
Client ID: LCS for HBN 174350 Instrument: ms03.i

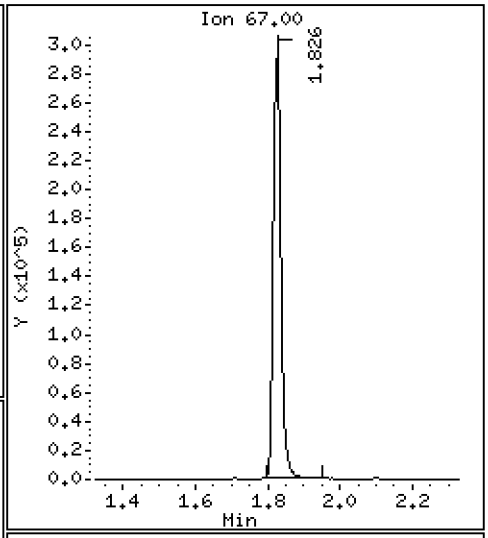
Sample Info: 2429648;;1;3;;LCS;1;

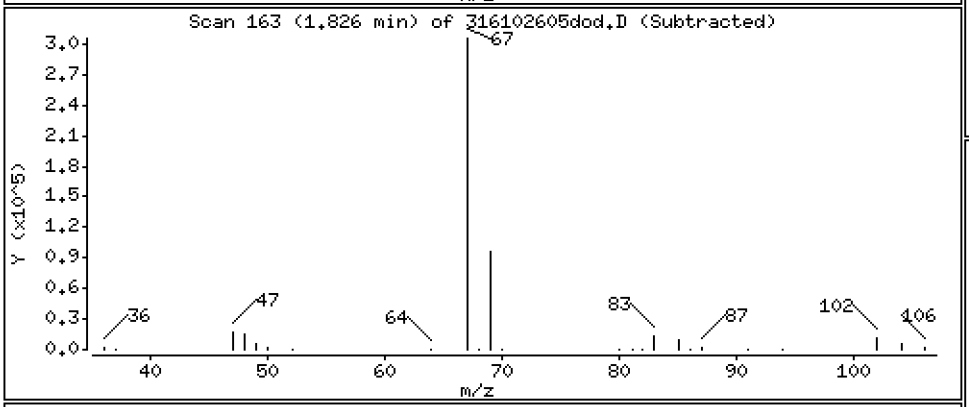
Purge Volume: 5.0 Operator: DD

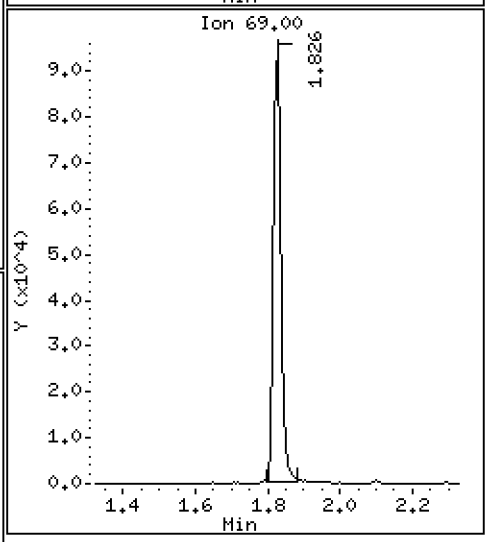
Column phase: DB-VRX Column diameter: 0.25

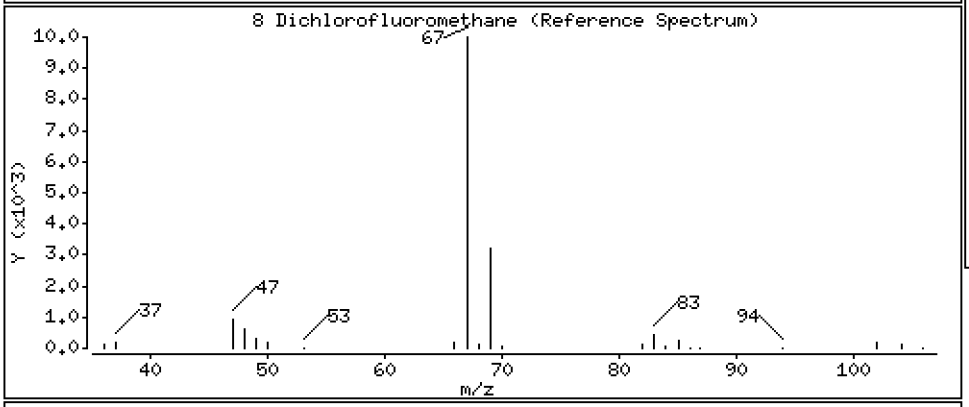
8 Dichlorofluoromethane Concentration: 20.8181 ug/L

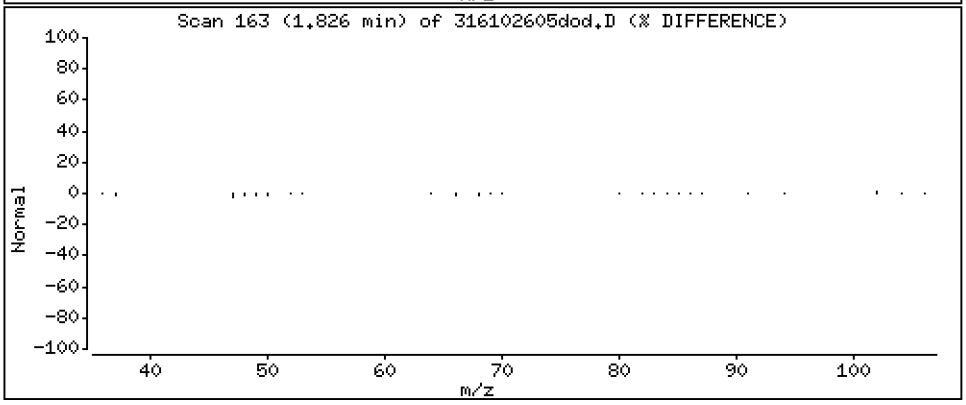












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 21

Date : 26-OCT-2016 10:55

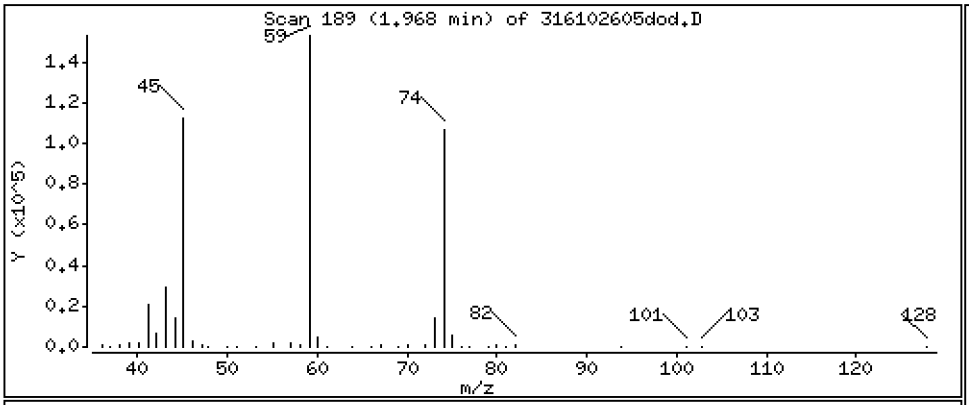
Client ID: LCS for HBN 174350 Instrument: ms03.i

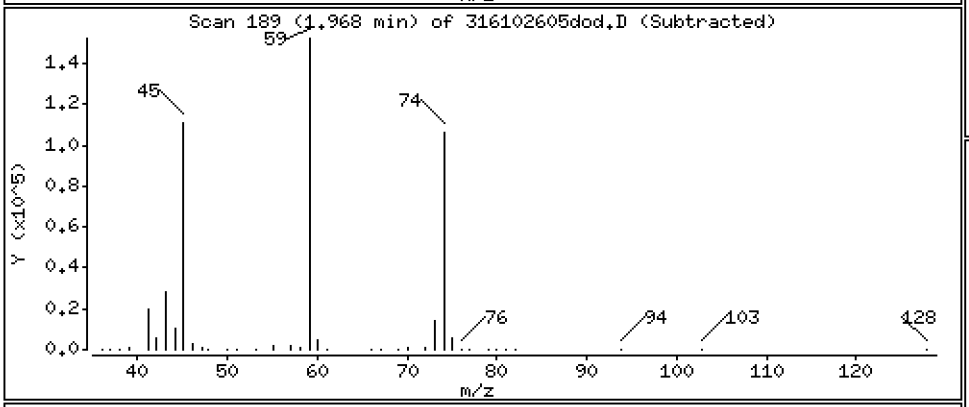
Sample Info: 2429648;;1;3;;LCS;1;

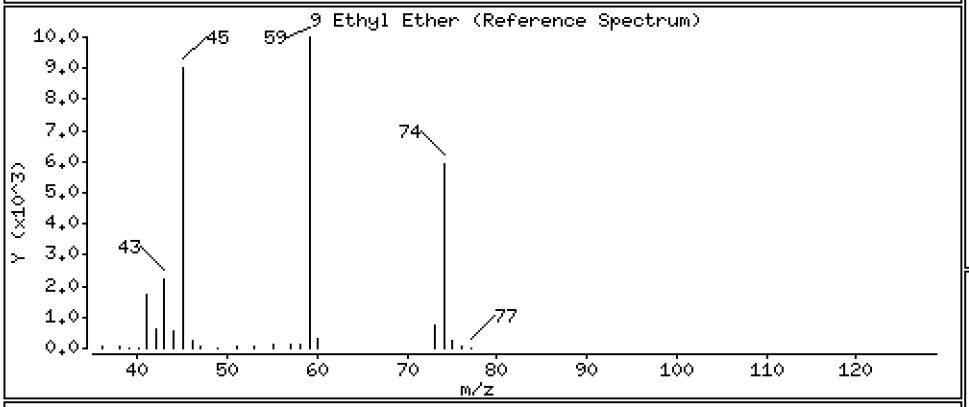
Purge Volume: 5.0 Operator: DD

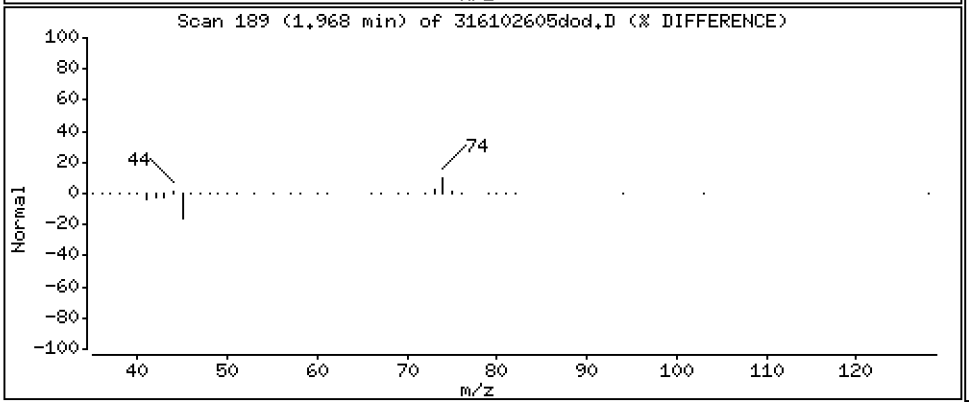
Column phase: DB-VRX Column diameter: 0.25

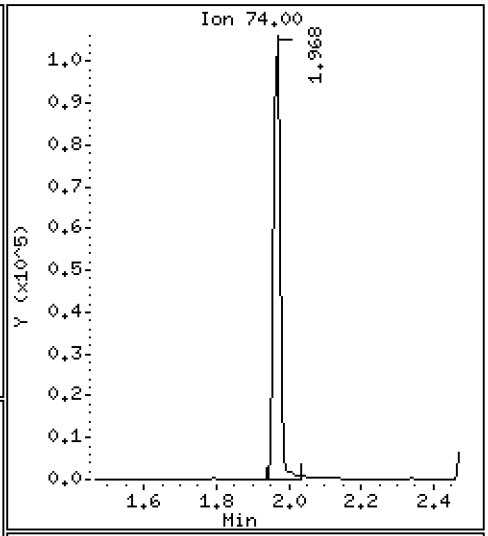
9 Ethyl Ether Concentration: 19.1022 ug/L

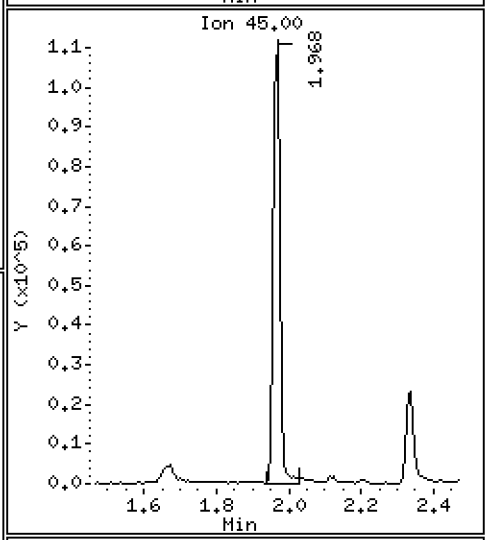


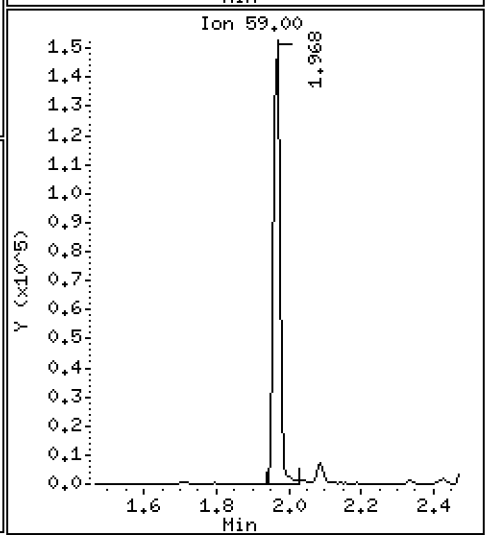












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 22

Date : 26-OCT-2016 10:55

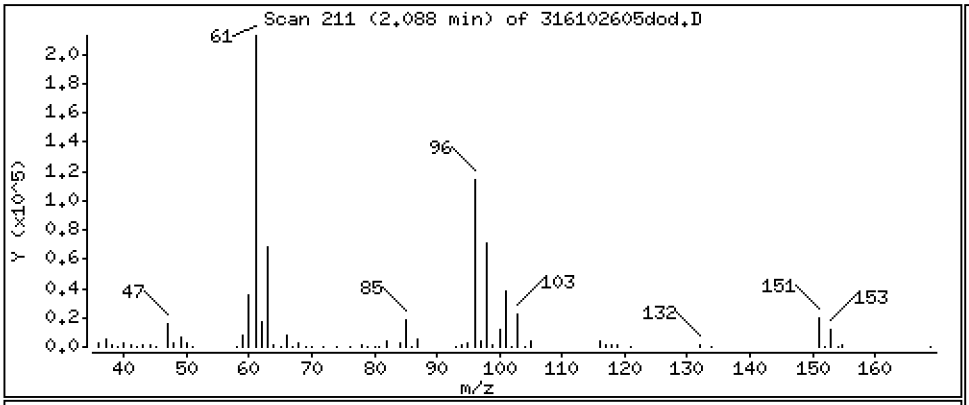
Client ID: LCS for HBN 174350 Instrument: ms03.i

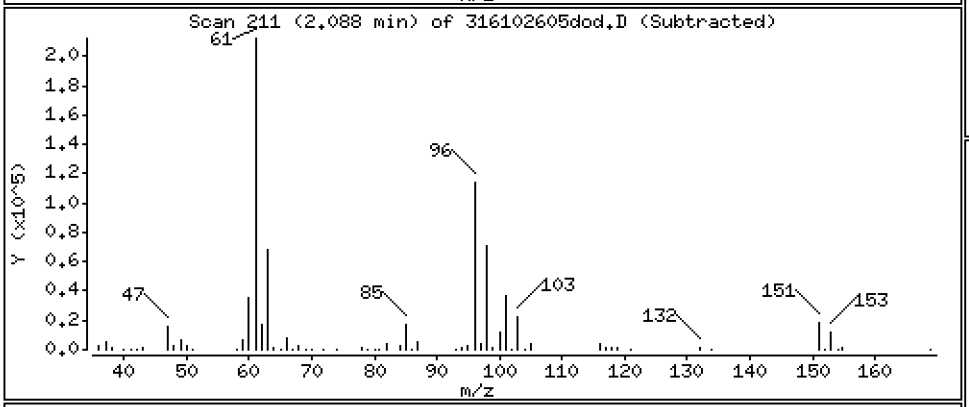
Sample Info: 2429648;;1;3;;LCS;1;

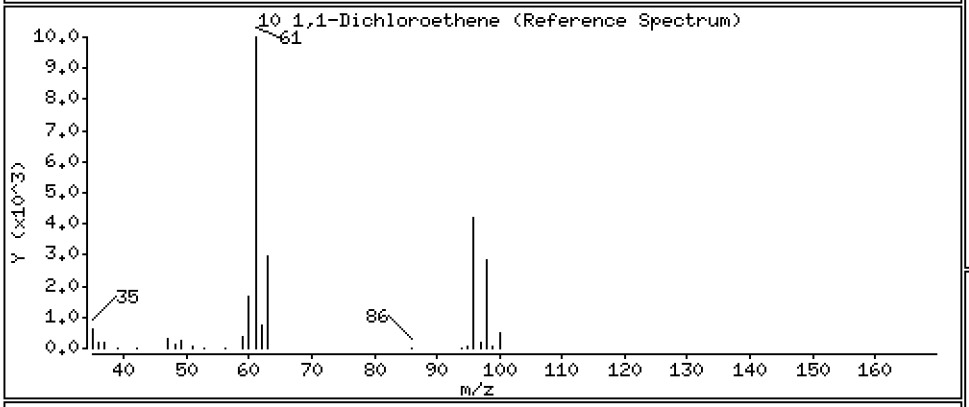
Purge Volume: 5.0 Operator: DD

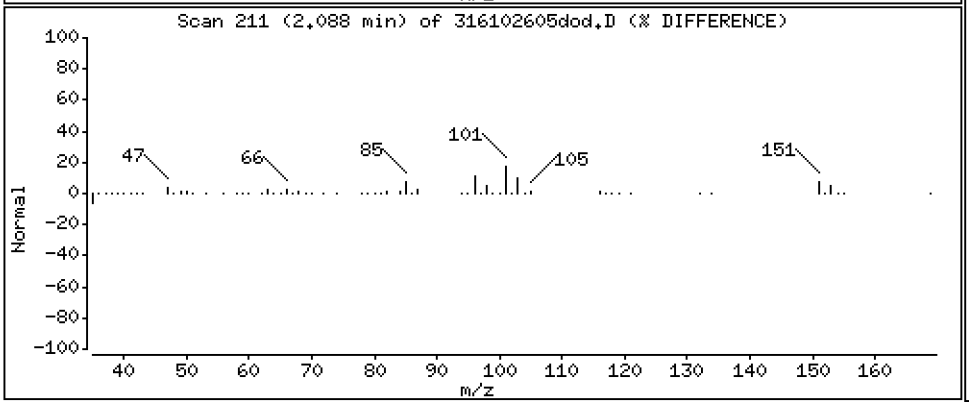
Column phase: DB-VRX Column diameter: 0.25

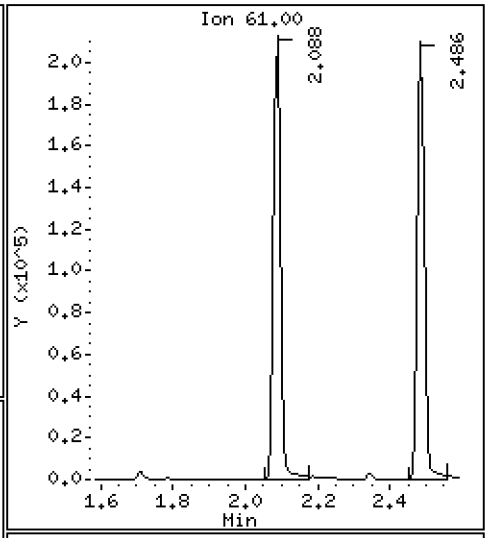
10 1,1-Dichloroethene Concentration: 20.2558 ug/L

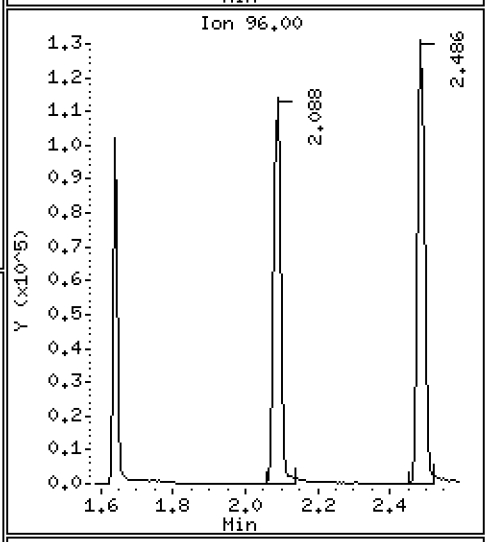


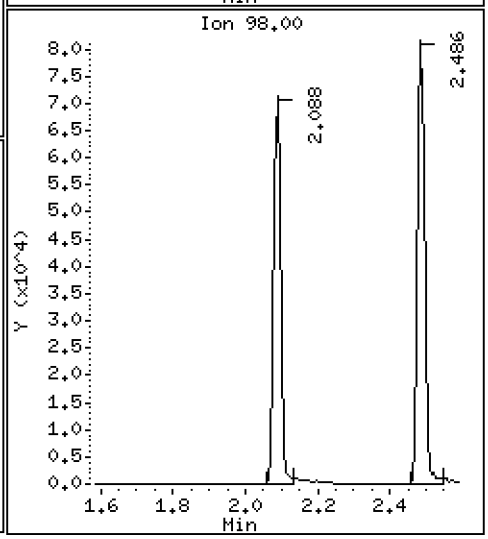












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 23

Date : 26-OCT-2016 10:55

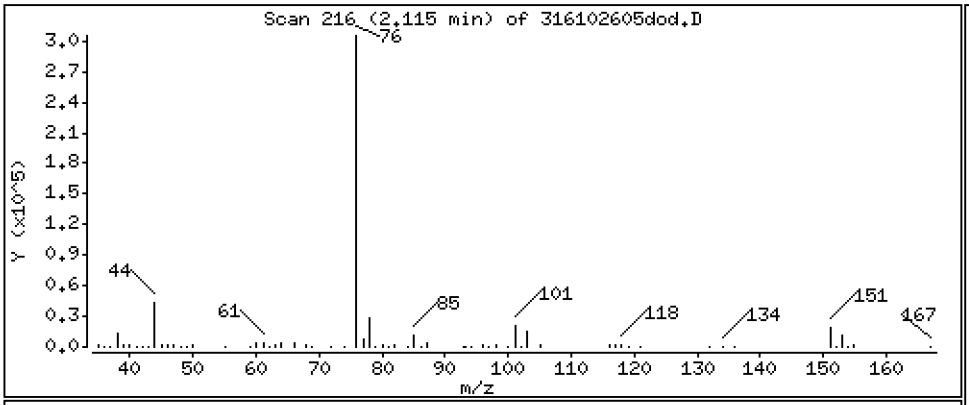
Client ID: LCS for HBN 174350 Instrument: ms03.i

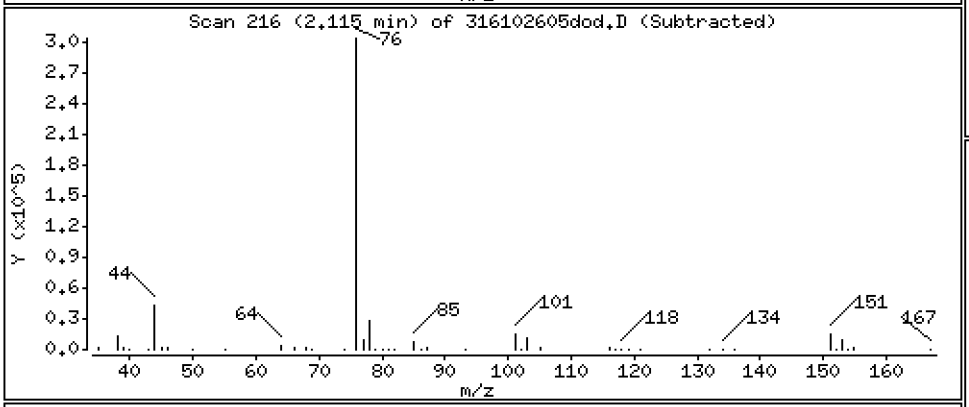
Sample Info: 2429648;;1;3;;LCS;1;

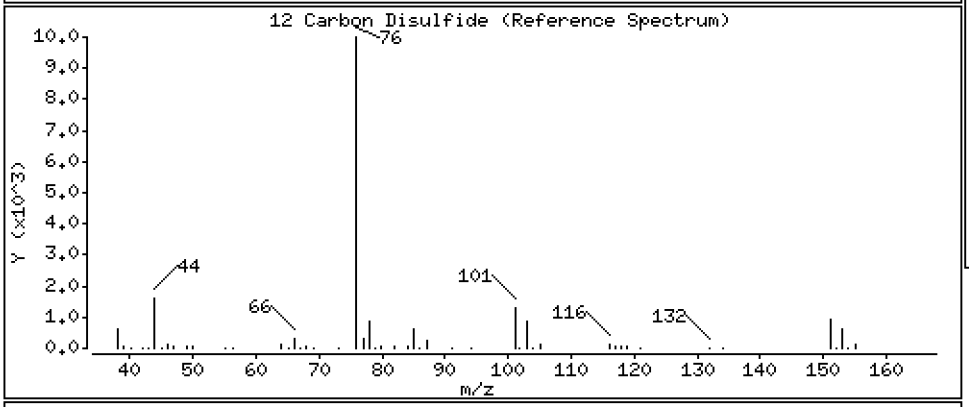
Purge Volume: 5.0 Operator: DD

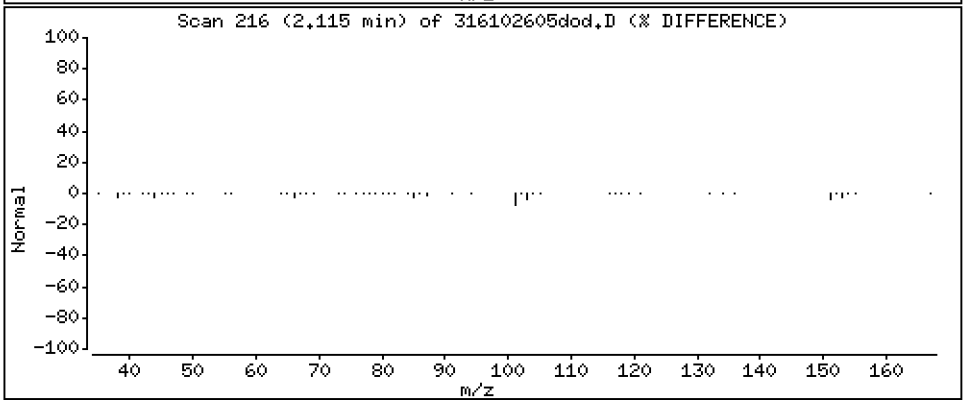
Column phase: DB-VRX Column diameter: 0.25

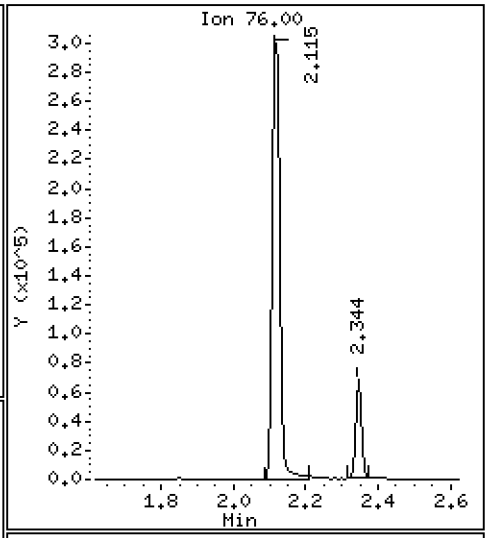
12 Carbon Disulfide Concentration: 17.8406 ug/L

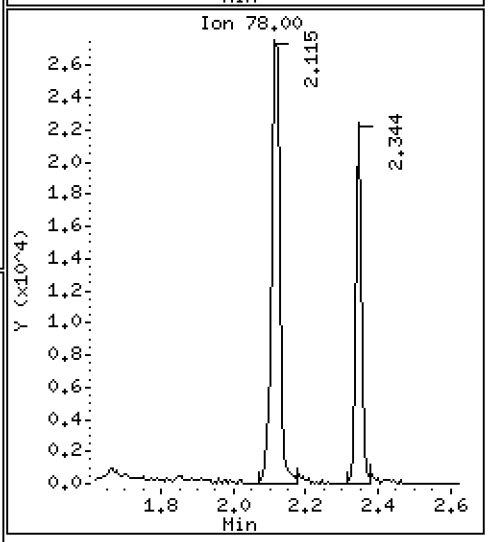












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 24

Date : 26-OCT-2016 10:55

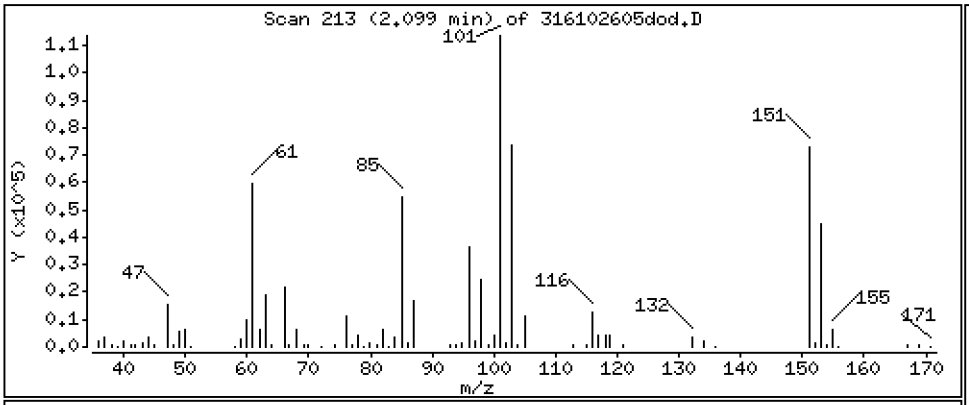
Client ID: LCS for HBN 174350 Instrument: ms03.i

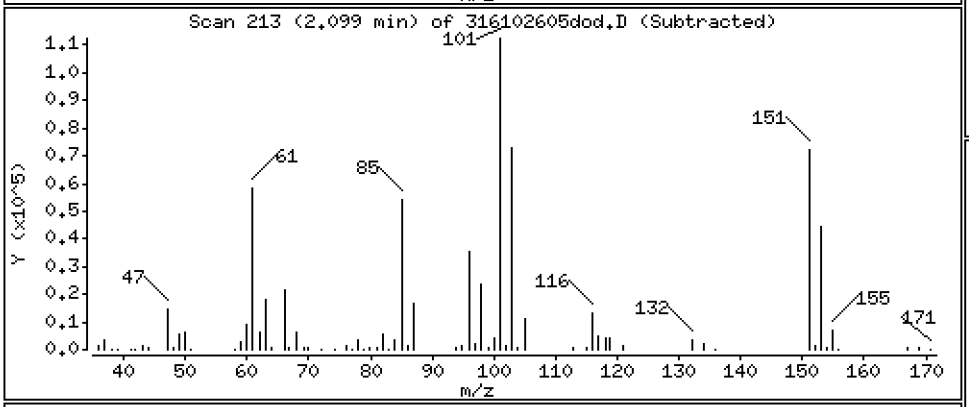
Sample Info: 2429648;;1;3;;LCS;1;

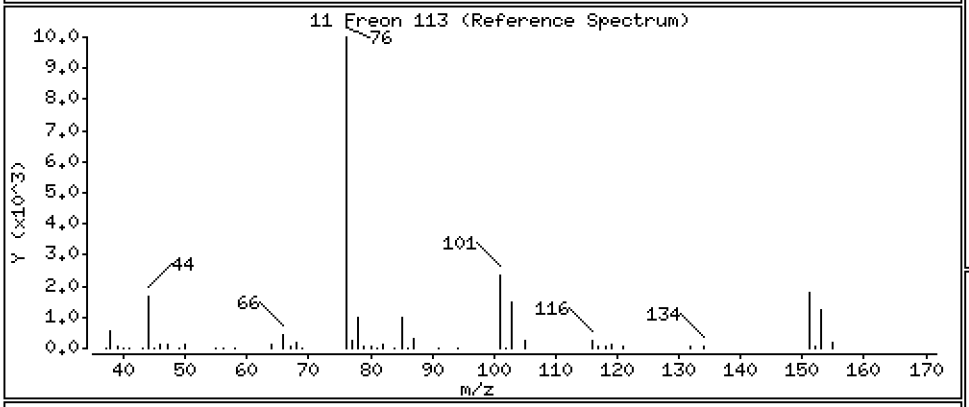
Purge Volume: 5.0 Operator: DD

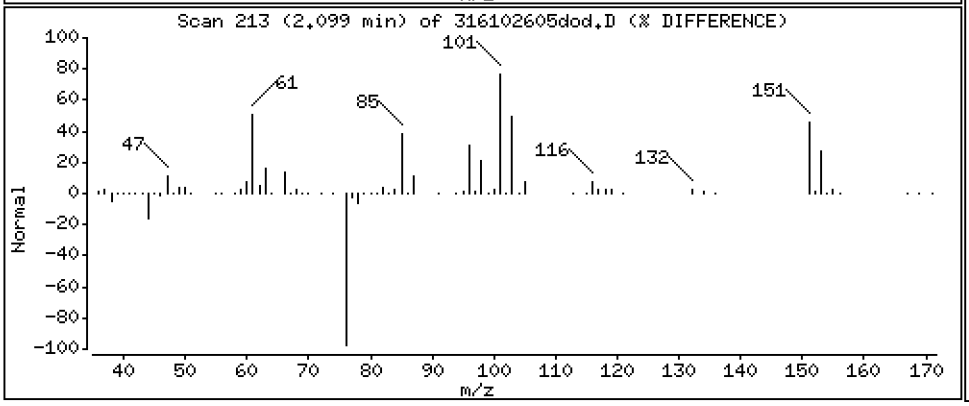
Column phase: DB-VRX Column diameter: 0.25

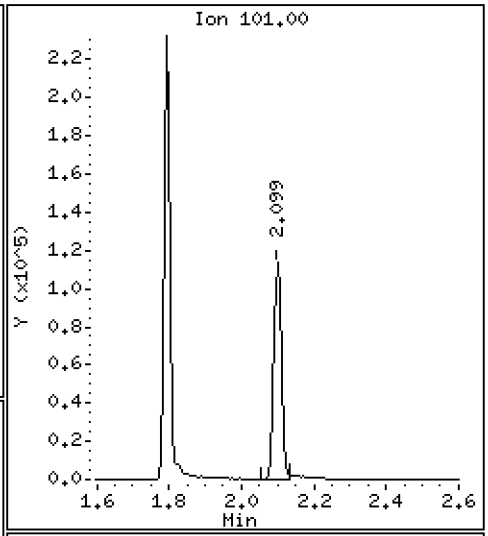
11 Freon 113 Concentration: 21.2116 ug/L

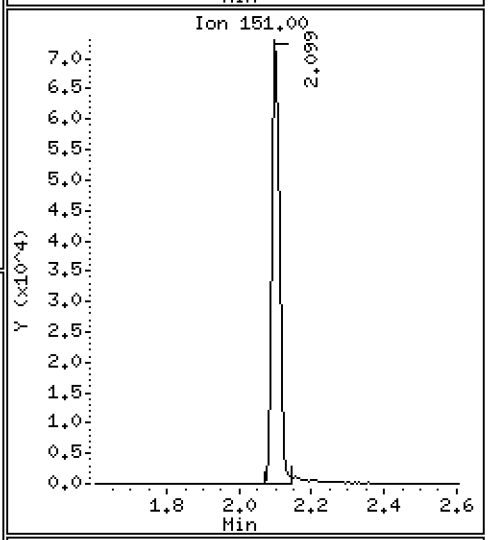


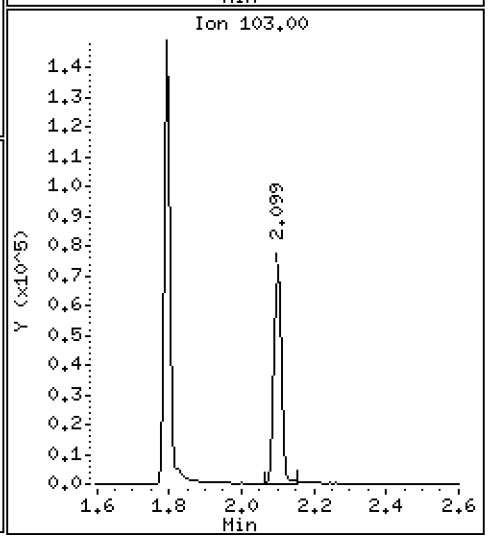












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 25

Date : 26-OCT-2016 10:55

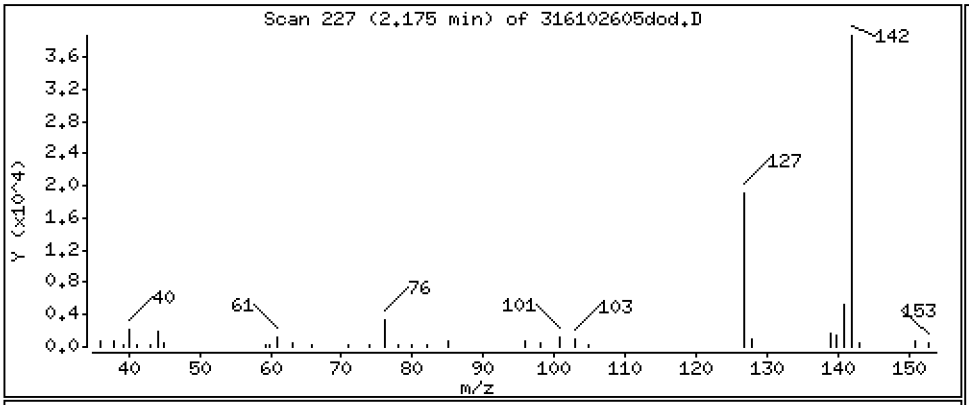
Client ID: LCS for HBN 174350 Instrument: ms03.i

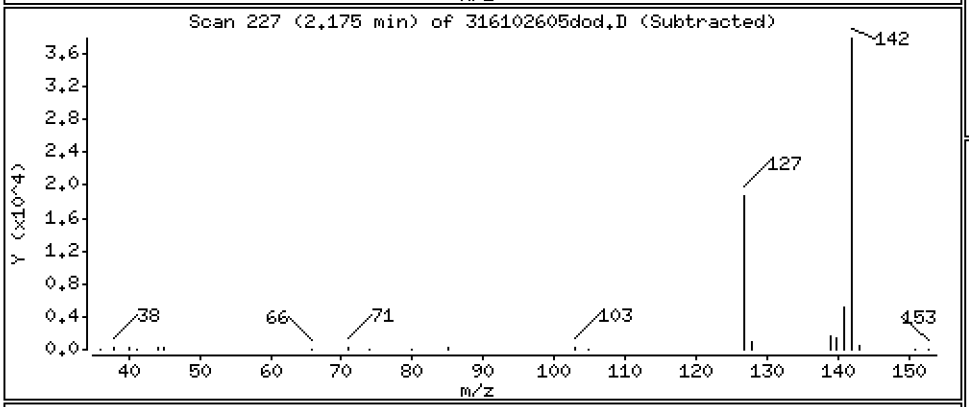
Sample Info: 2429648;;1;3;;LCS;1;

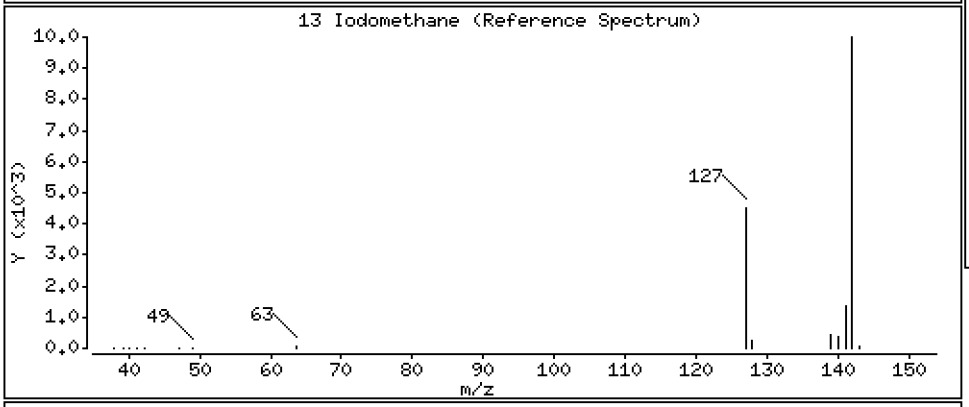
Purge Volume: 5.0 Operator: DD

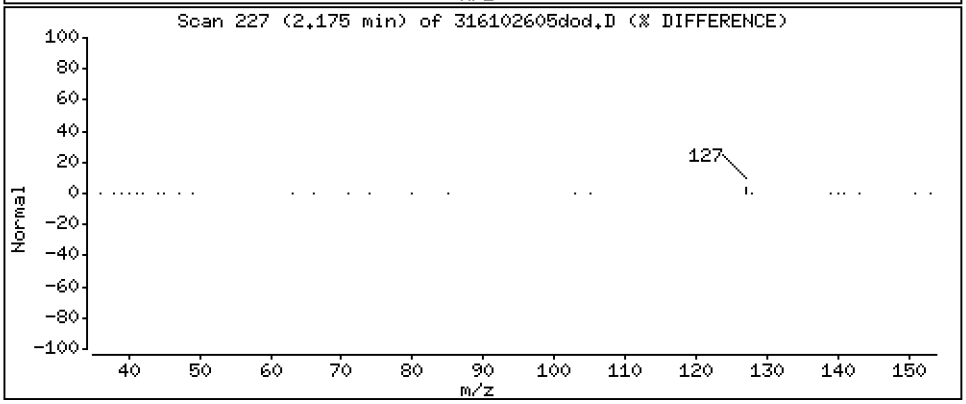
Column phase: DB-VRX Column diameter: 0.25

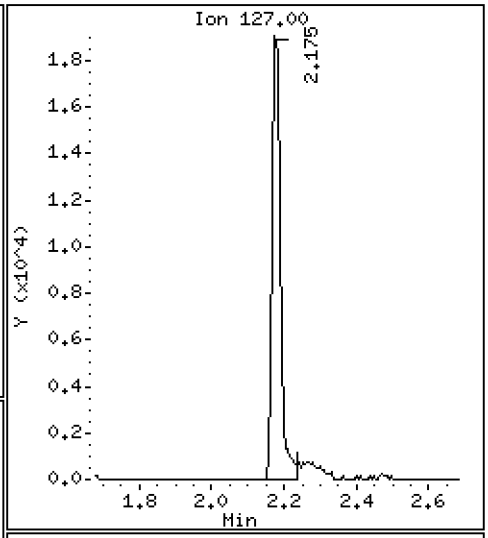
13 Iodomethane Concentration: 16.9630 ug/L

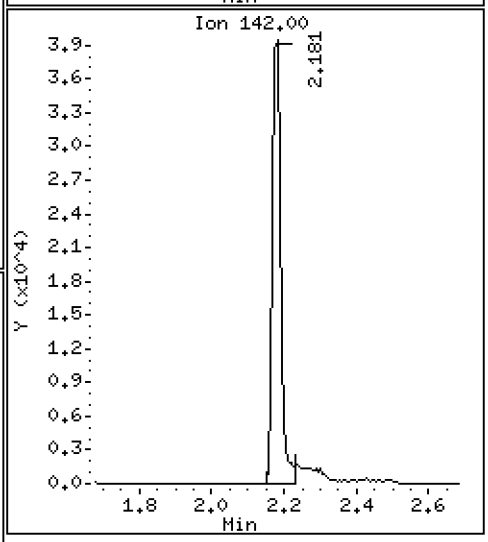












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 26

Date : 26-OCT-2016 10:55

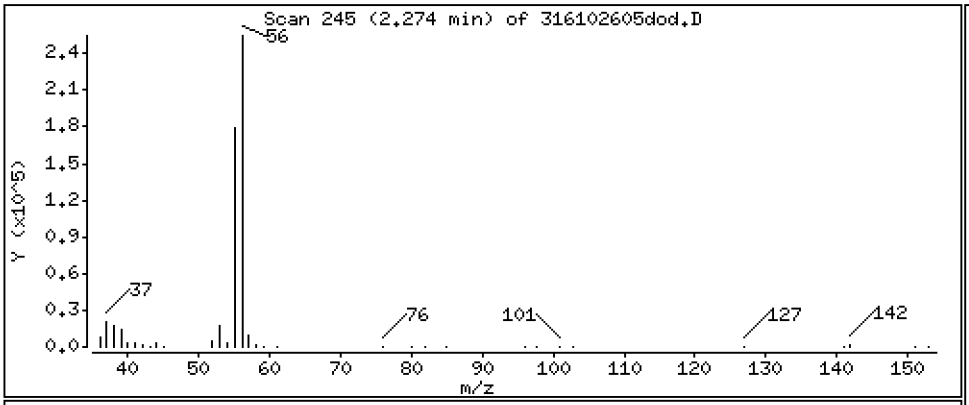
Client ID: LCS for HBN 174350 Instrument: ms03.i

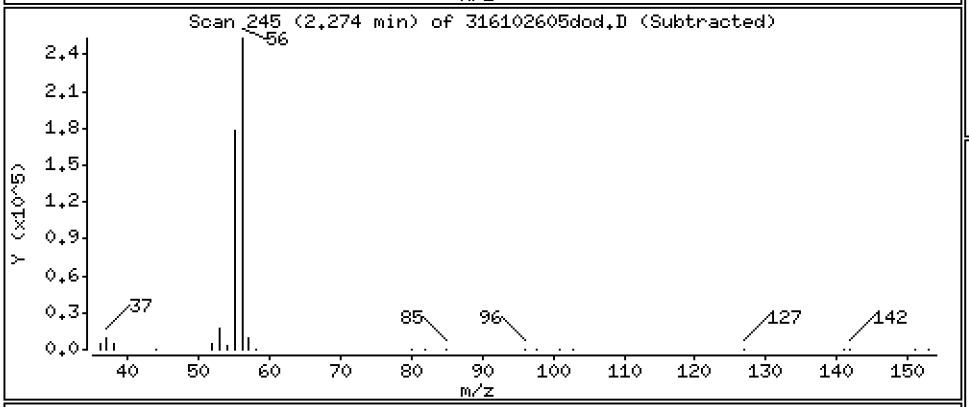
Sample Info: 2429648;;1;3;;LCS;1;

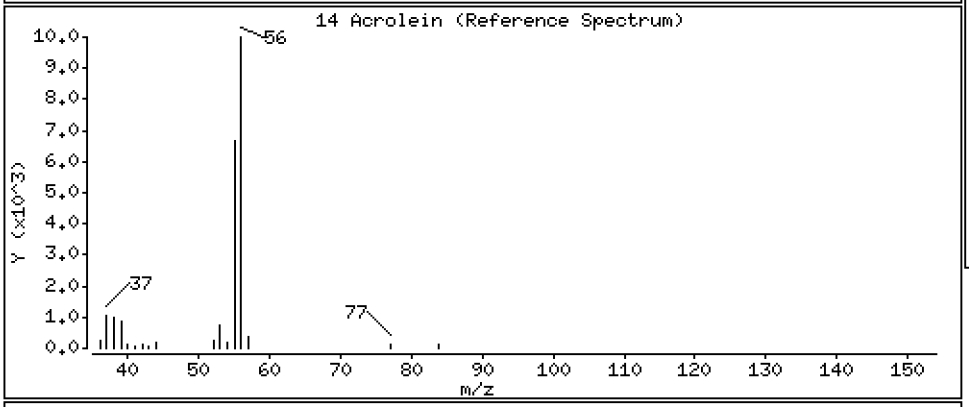
Purge Volume: 5.0 Operator: DD

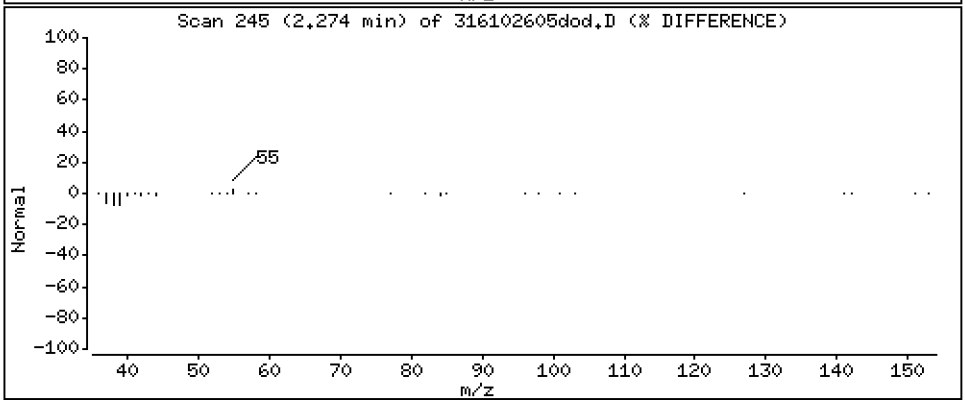
Column phase: DB-VRX Column diameter: 0.25

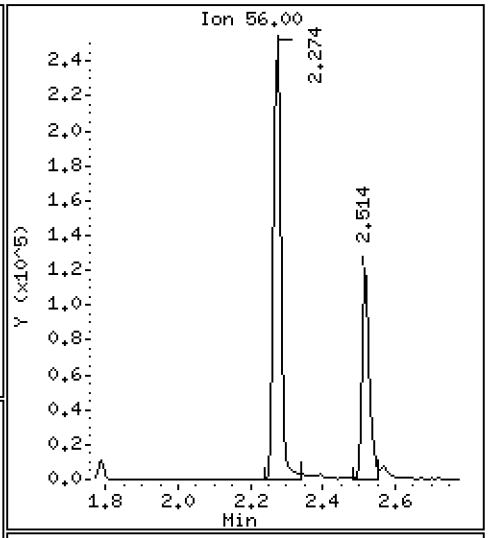
14 Acrolein Concentration: 269.151 ug/L

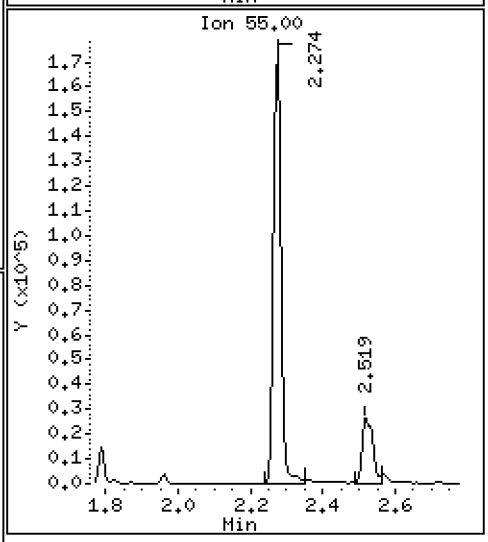












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 27

Date : 26-OCT-2016 10:55

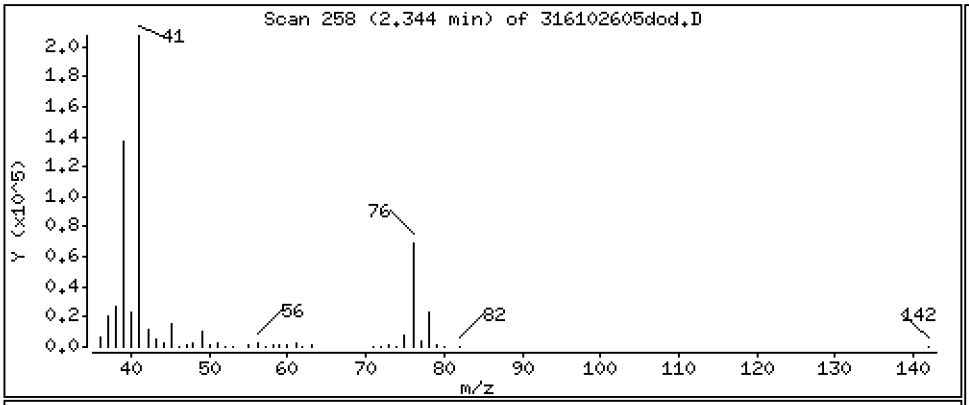
Client ID: LCS for HBN 174350 Instrument: ms03.i

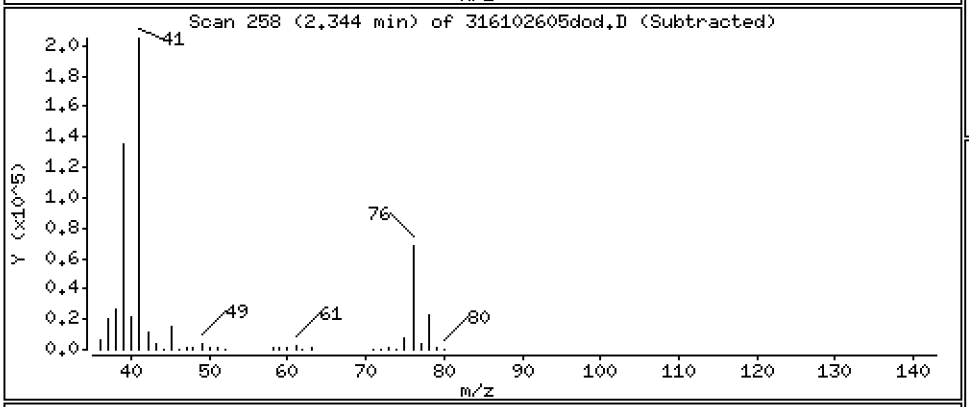
Sample Info: 2429648;;1;3;;LCS;1;

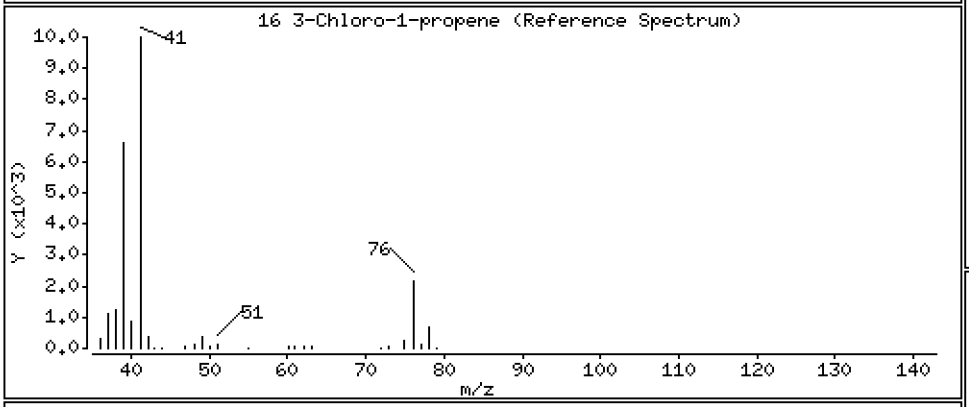
Purge Volume: 5.0 Operator: DD

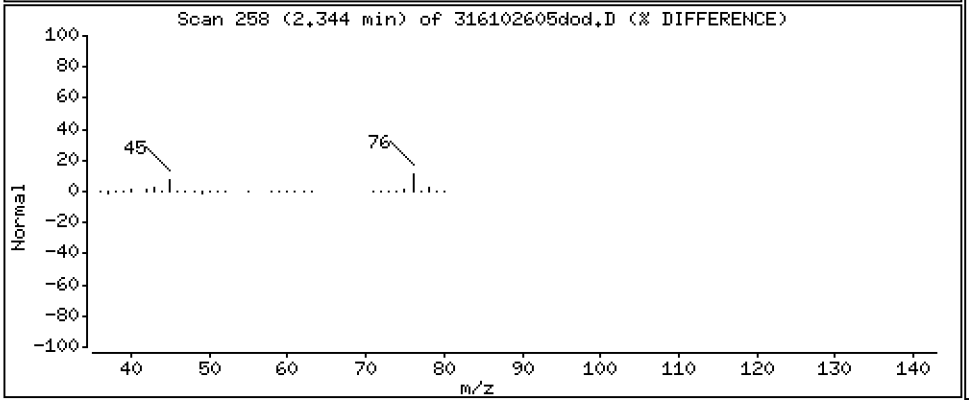
Column phase: DB-VRX Column diameter: 0.25

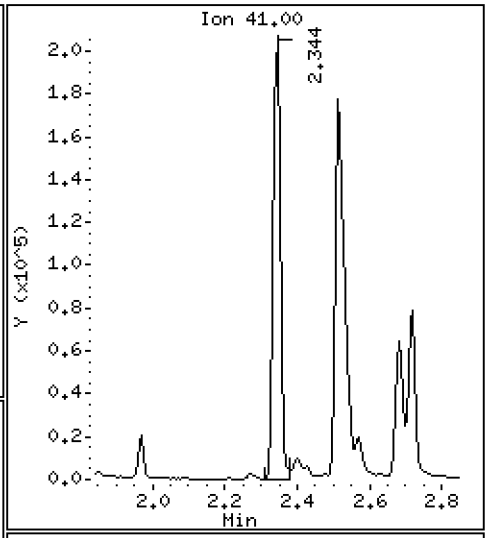
16 3-Chloro-1-propene Concentration: 23.8826 ug/L

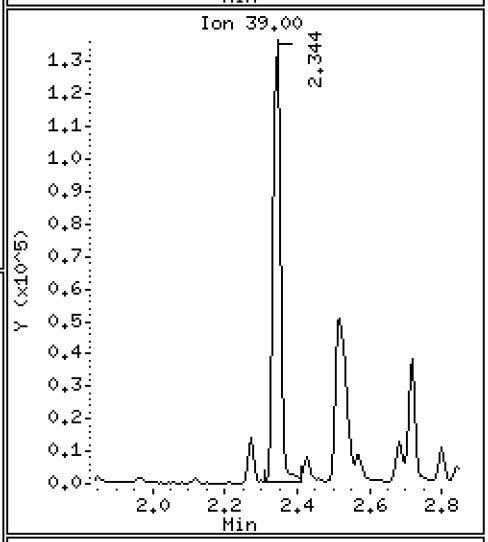


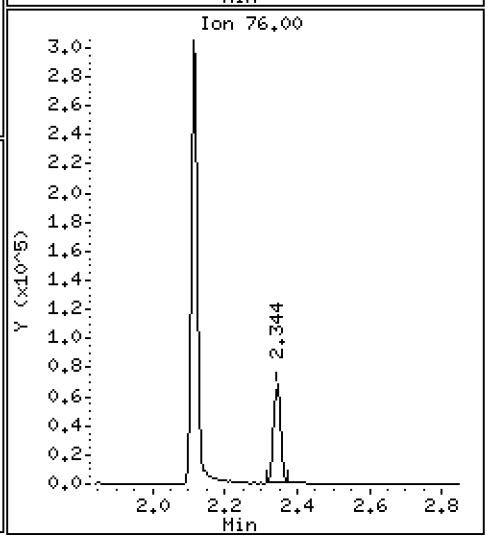












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 28

Date : 26-OCT-2016 10:55

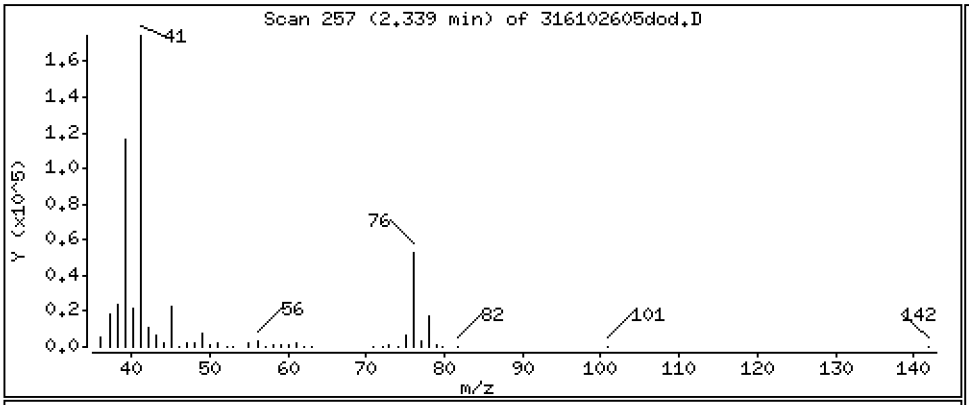
Client ID: LCS for HBN 174350 Instrument: ms03.i

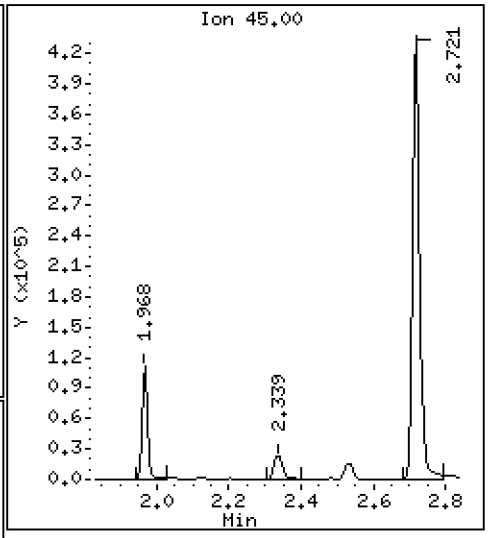
Sample Info: 2429648;;1;3;;LCS;1;

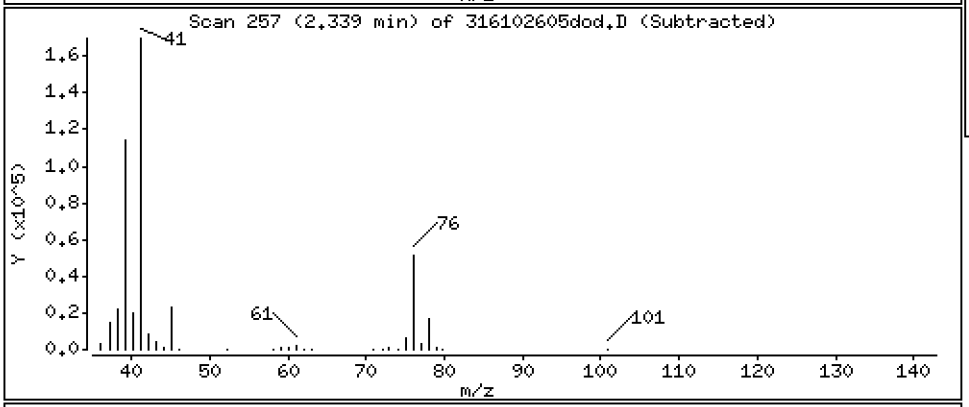
Purge Volume: 5.0 Operator: DD

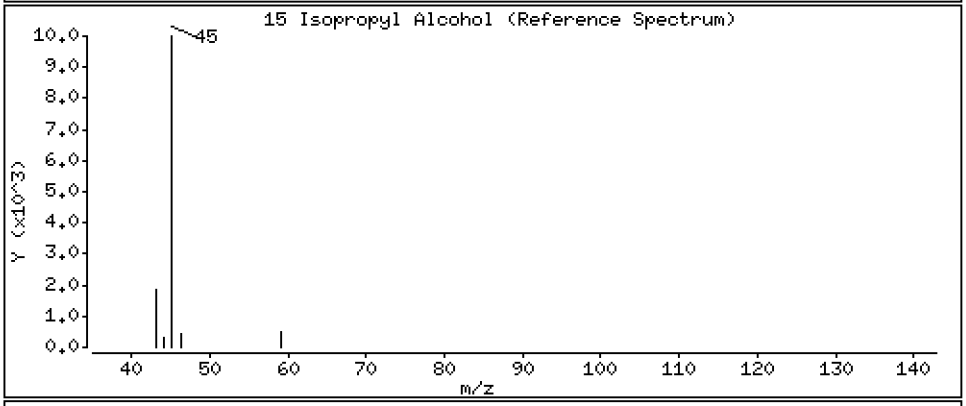
Column phase: DB-VRX Column diameter: 0.25

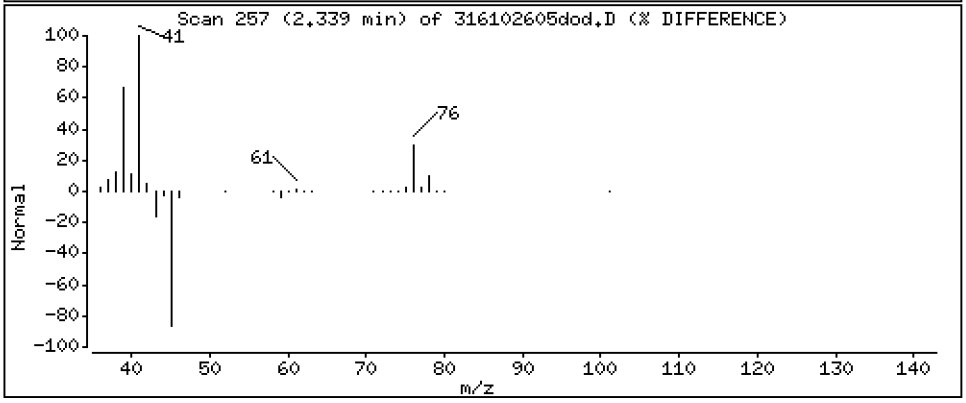
15 Isopropyl Alcohol Concentration: 140.938 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 29

Date : 26-OCT-2016 10:55

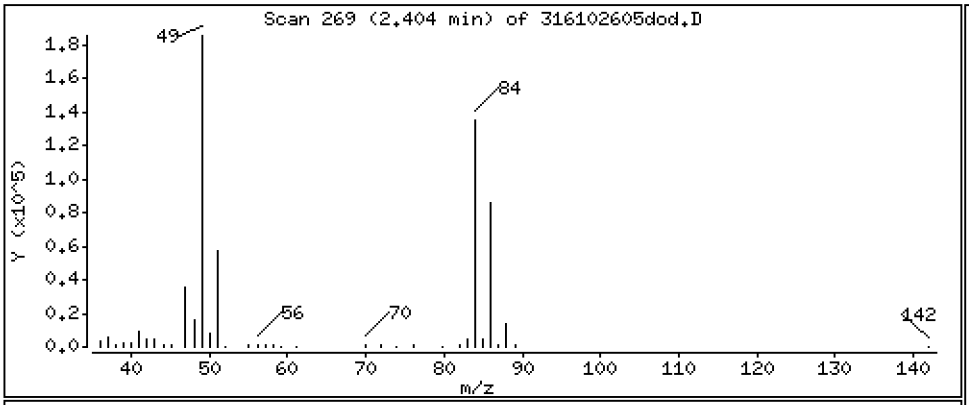
Client ID: LCS for HBN 174350 Instrument: ms03.i

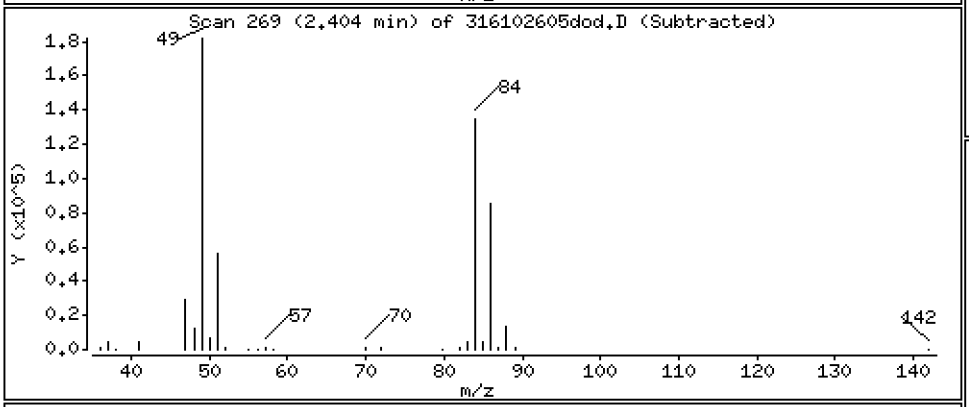
Sample Info: 2429648;;1;3;;LCS;1;

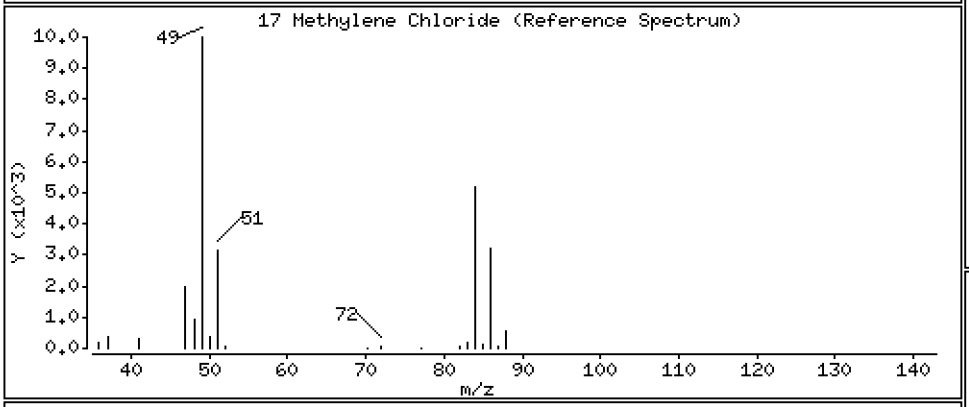
Purge Volume: 5.0 Operator: DD

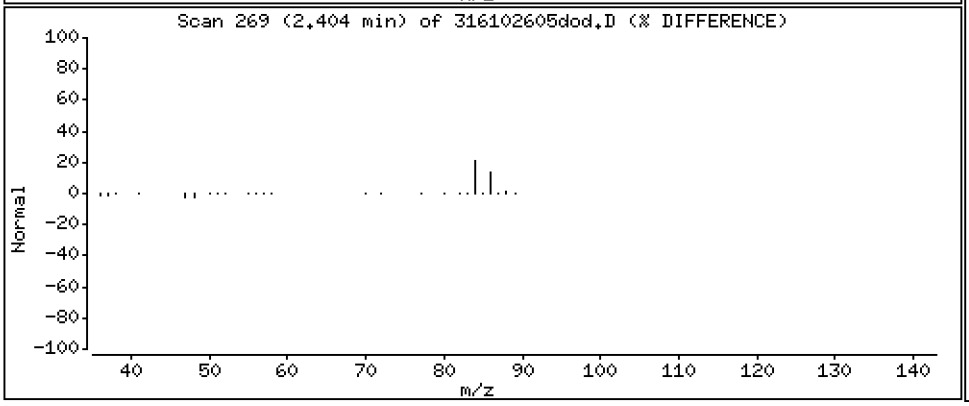
Column phase: DB-VRX Column diameter: 0.25

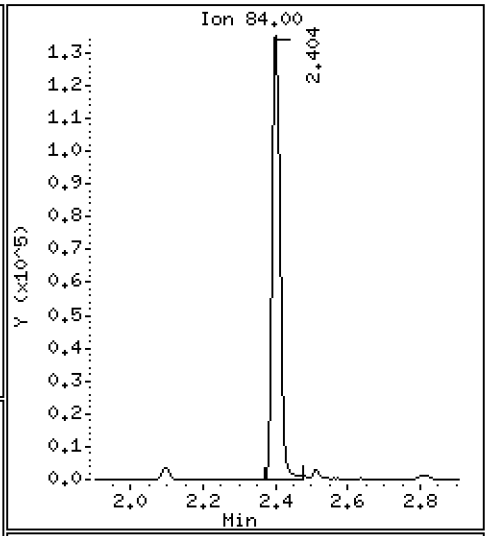
17 Methylene Chloride Concentration: 22.2305 ug/L

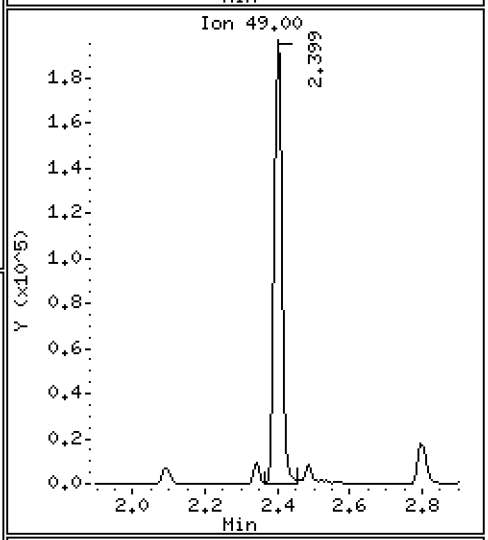


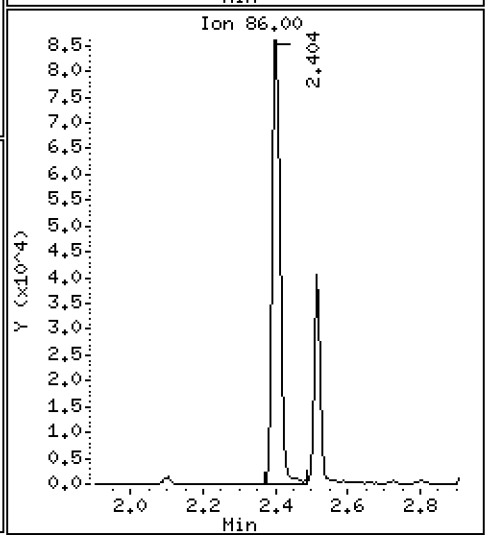












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 30

Date : 26-OCT-2016 10:55

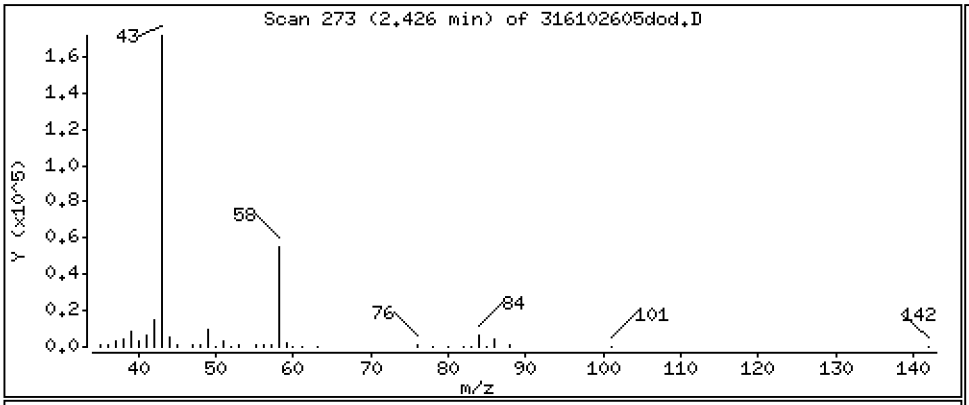
Client ID: LCS for HBN 174350 Instrument: ms03.i

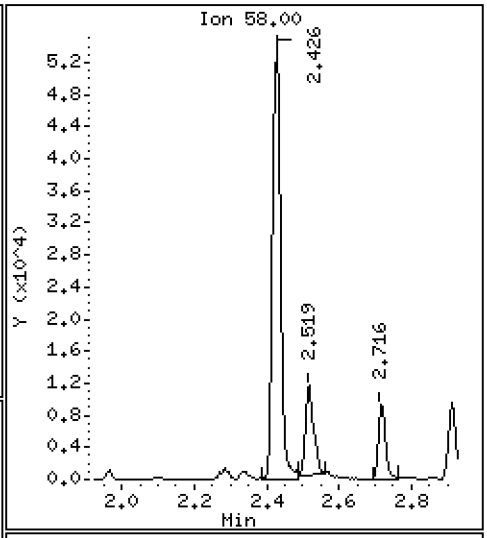
Sample Info: 2429648;;1;3;;LCS;1;

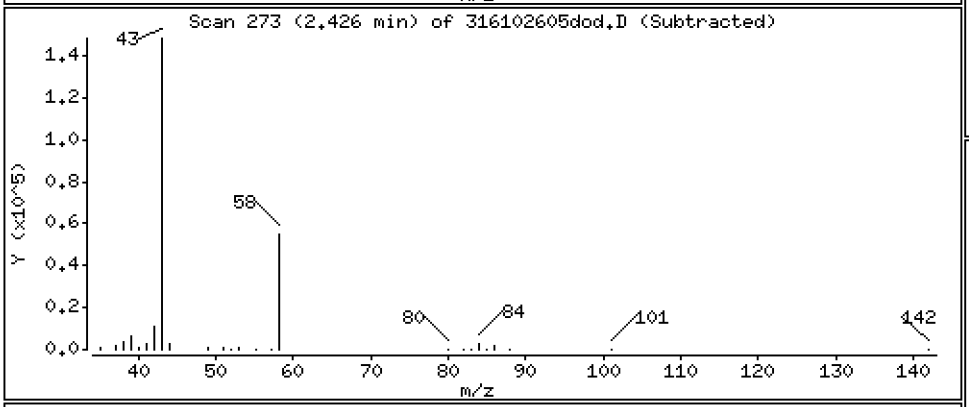
Purge Volume: 5.0 Operator: DD

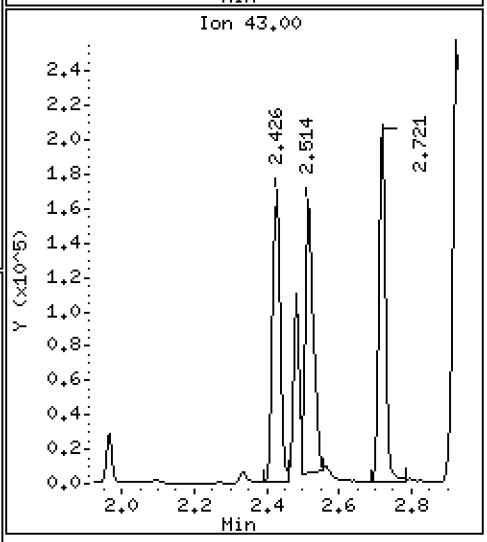
Column phase: DB-VRX Column diameter: 0.25

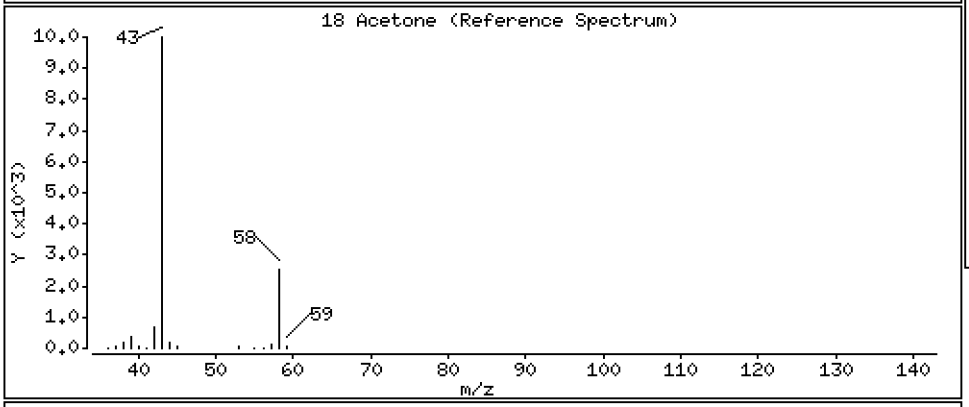
18 Acetone Concentration: 115.509 ug/L

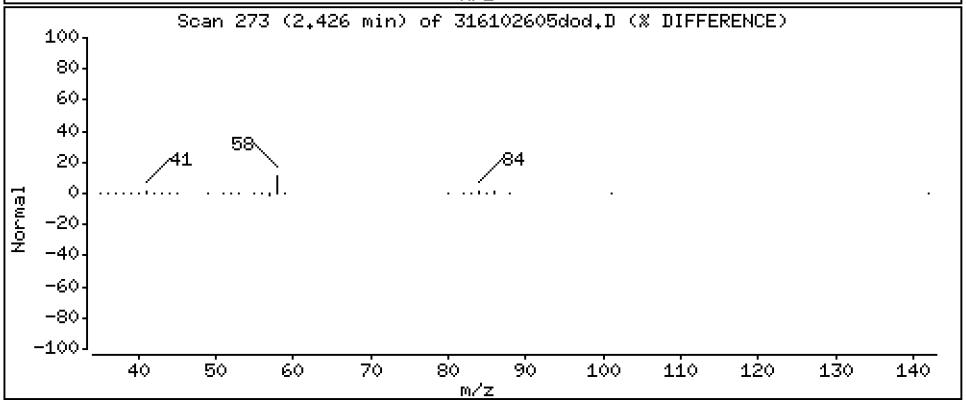












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 31

Date : 26-OCT-2016 10:55

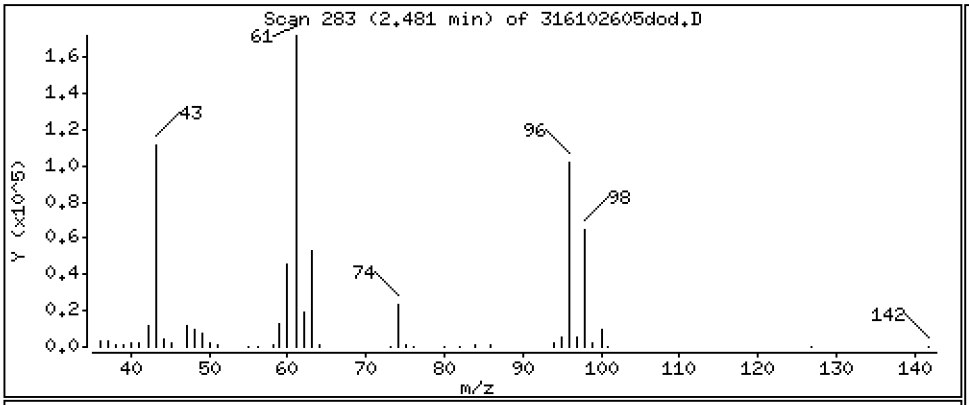
Client ID: LCS for HBN 174350 Instrument: ms03.i

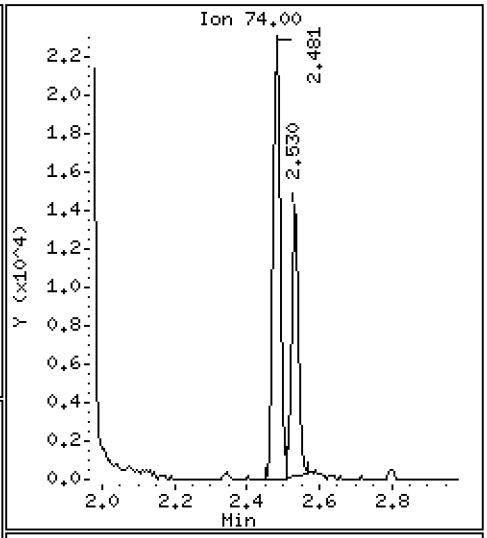
Sample Info: 2429648;;1;3;;LCS;1;

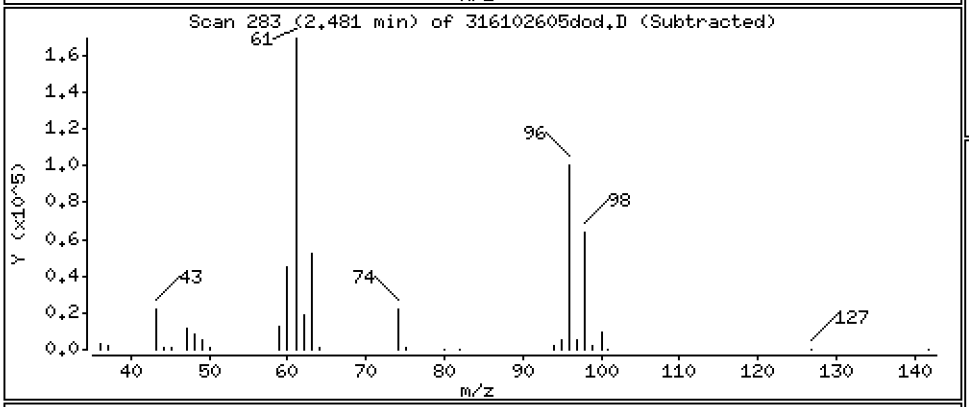
Purge Volume: 5.0 Operator: DD

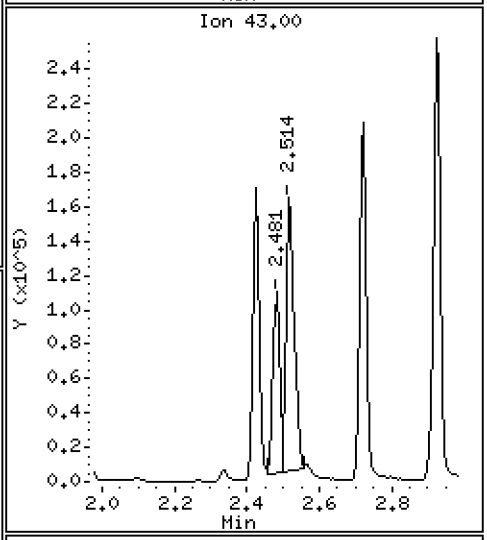
Column phase: DB-VRX Column diameter: 0.25

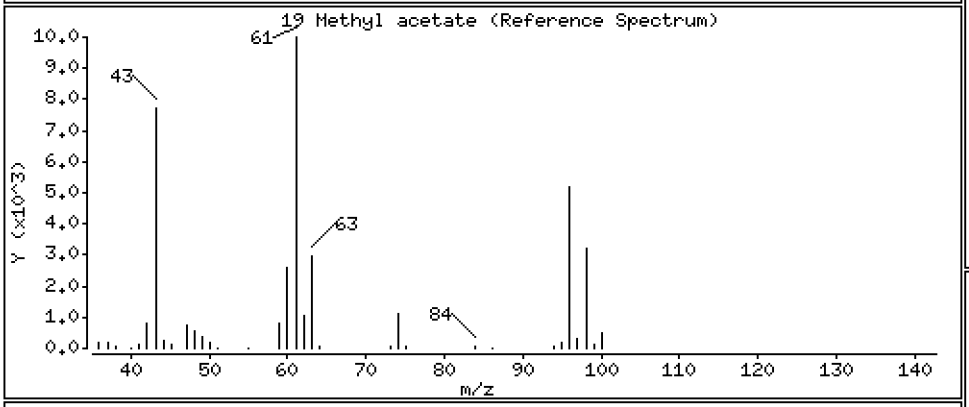
19 Methyl acetate Concentration: 21.7990 ug/L

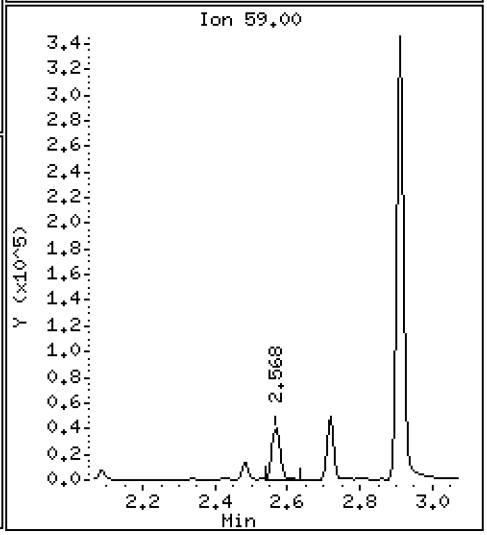


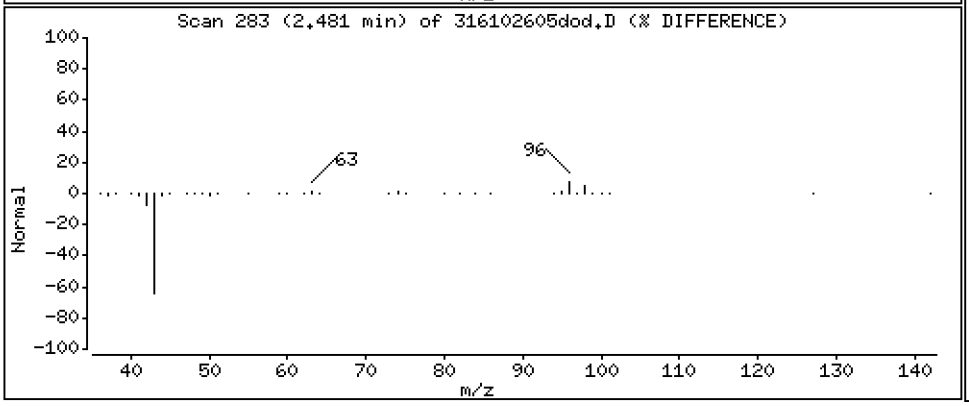












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 32

Date : 26-OCT-2016 10:55

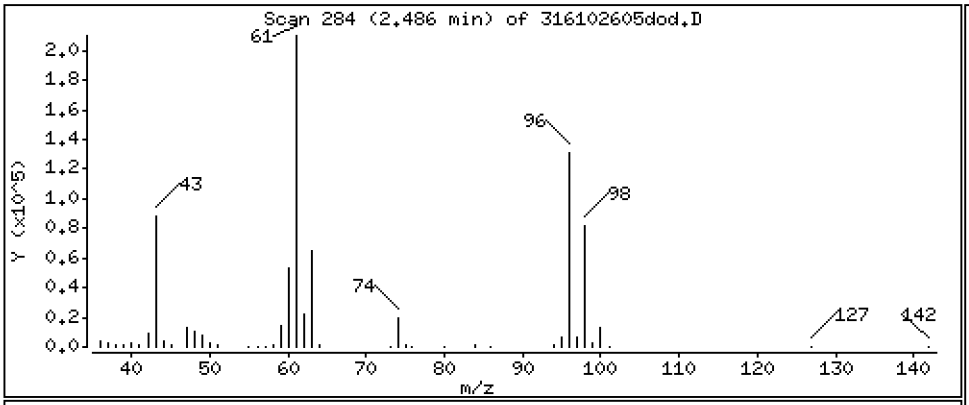
Client ID: LCS for HBN 174350 Instrument: ms03.i

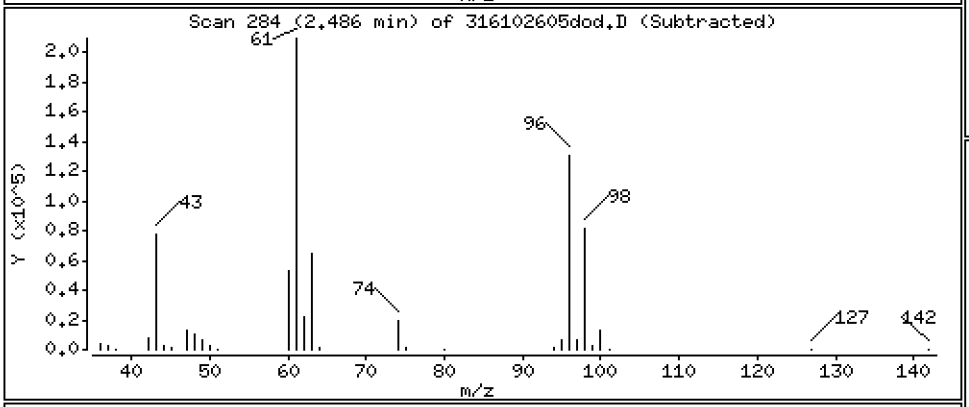
Sample Info: 2429648;;1;3;;LCS;1;

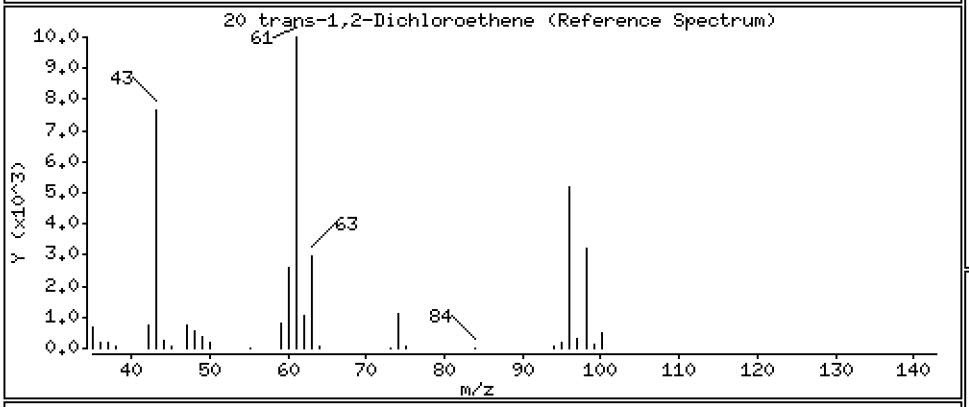
Purge Volume: 5.0 Operator: DD

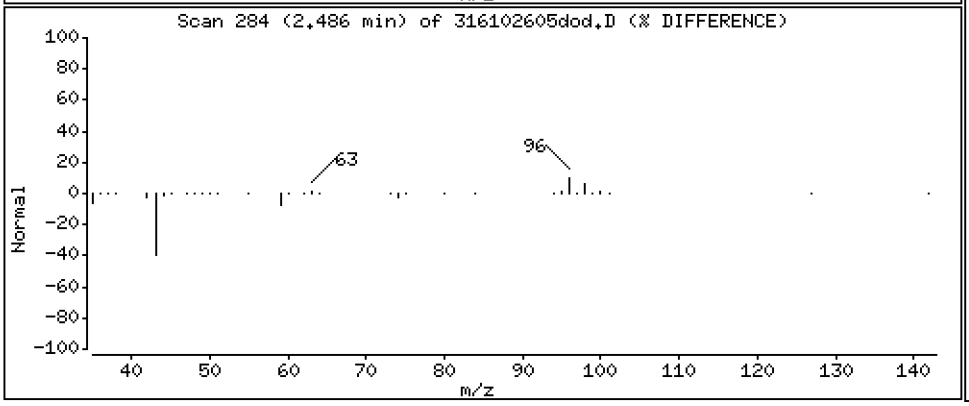
Column phase: DB-VRX Column diameter: 0.25

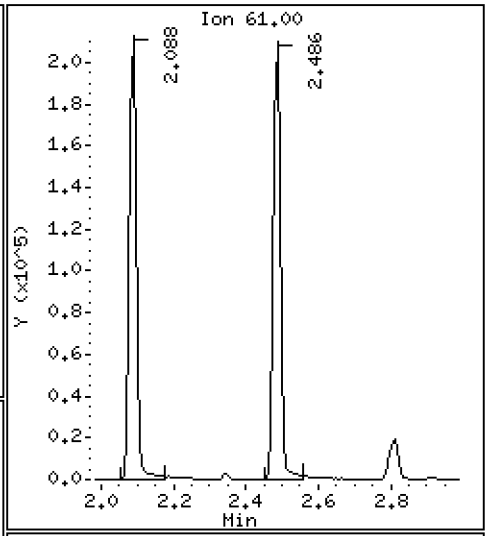
20 trans-1,2-Dichloroethene Concentration: 20.7911 ug/L

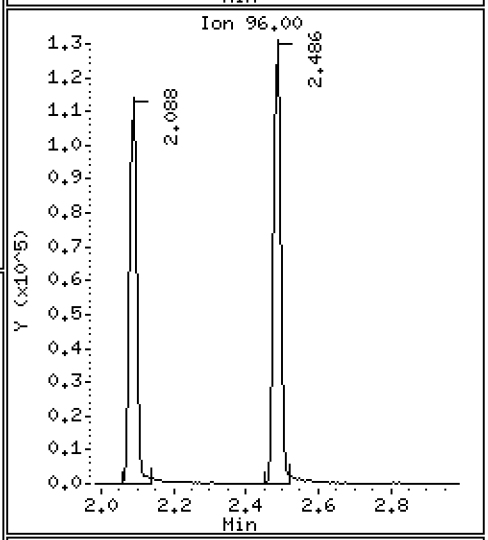


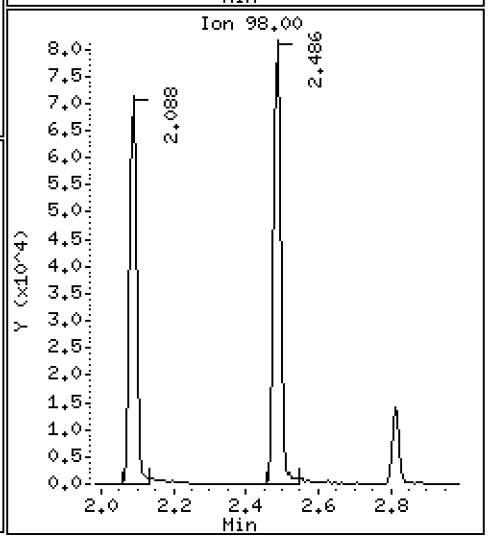












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 33

Date : 26-OCT-2016 10:55

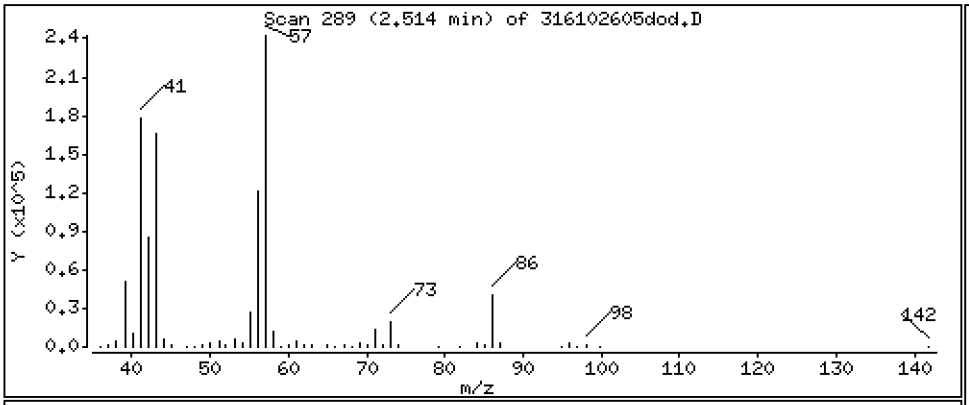
Client ID: LCS for HBN 174350 Instrument: ms03.i

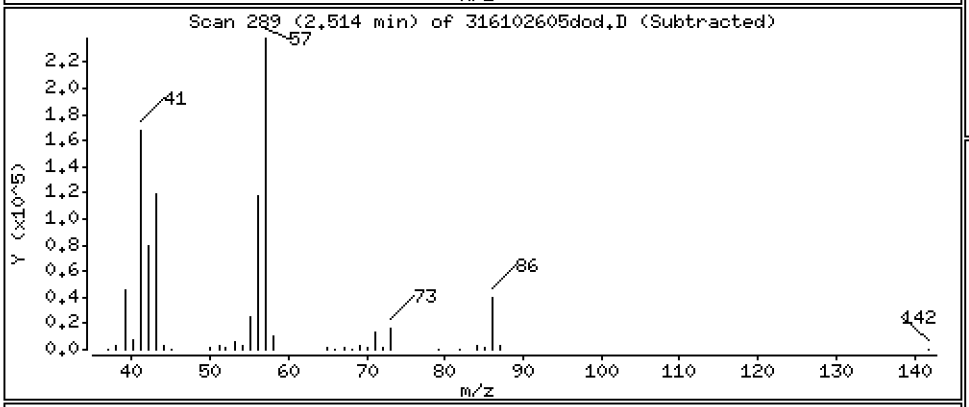
Sample Info: 2429648;;1;3;;LCS;1;

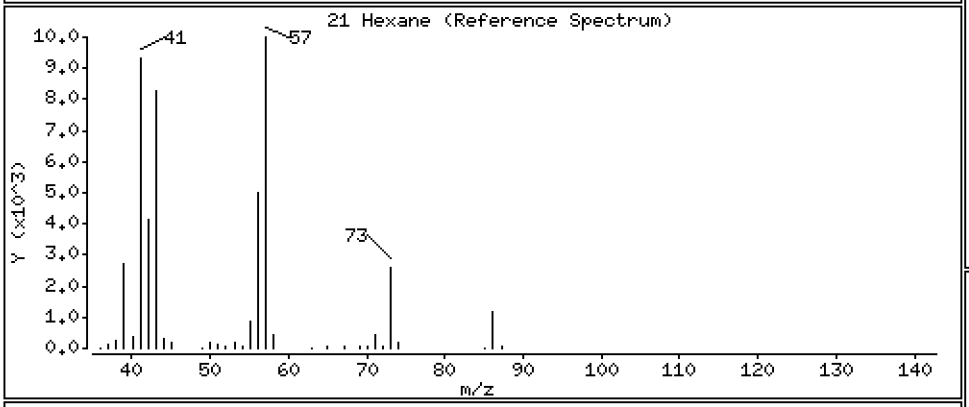
Purge Volume: 5.0 Operator: DD

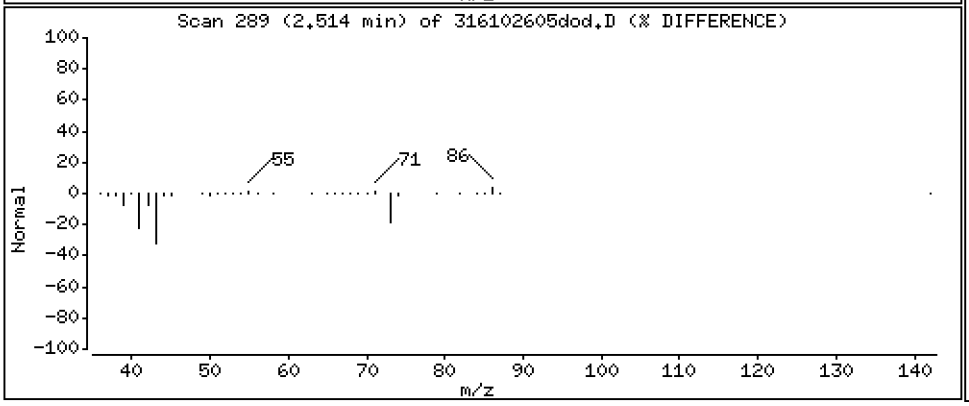
Column phase: DB-VRX Column diameter: 0.25

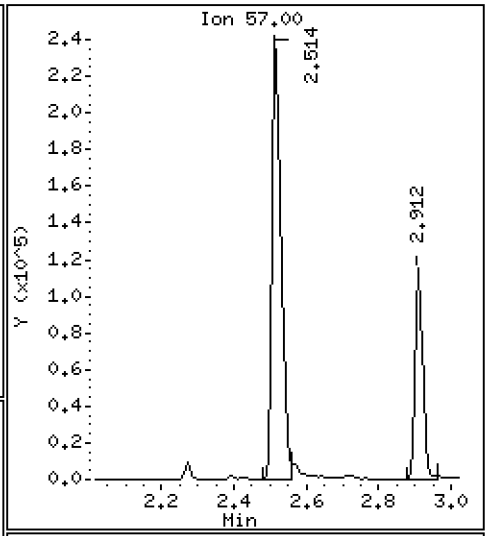
21 Hexane Concentration: 22.5074 ug/L

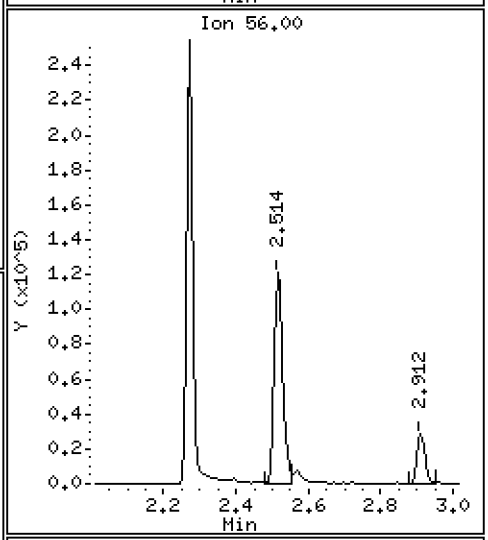


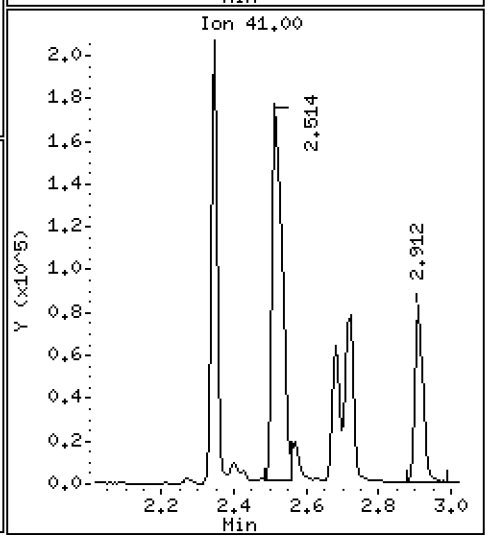












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 34

Date : 26-OCT-2016 10:55

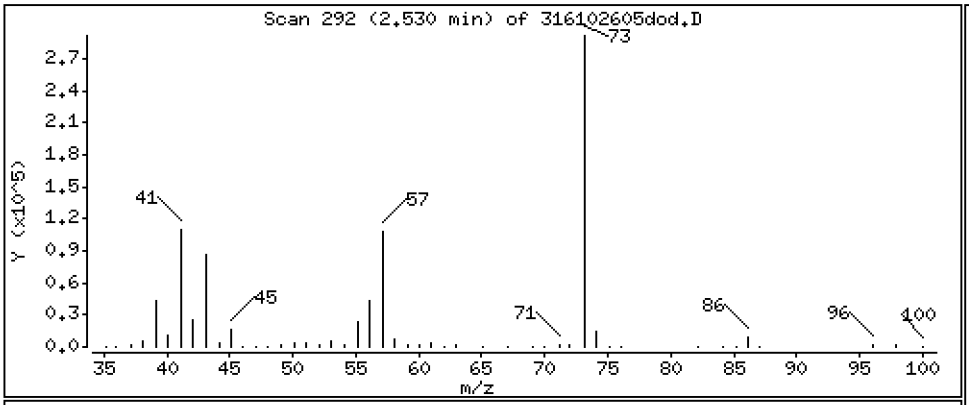
Client ID: LCS for HBN 174350 Instrument: ms03.i

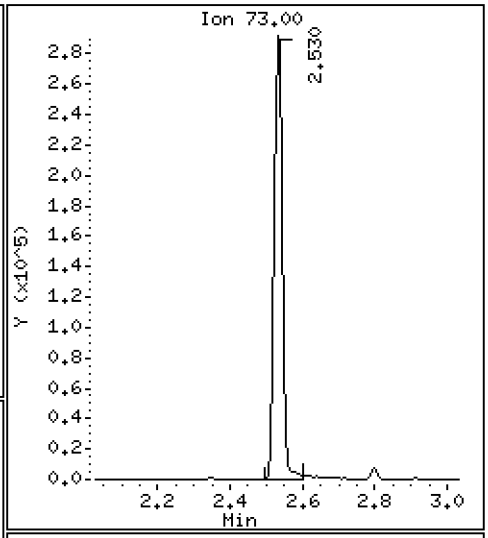
Sample Info: 2429648;;1;3;;LCS;1;

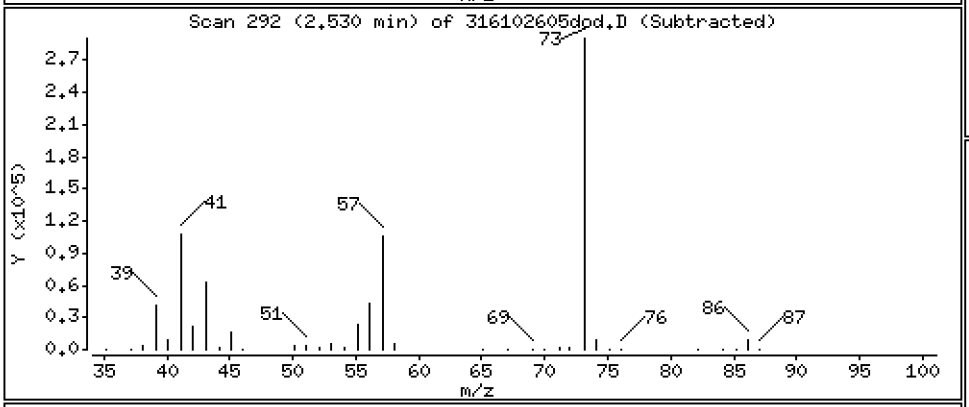
Purge Volume: 5.0 Operator: DD

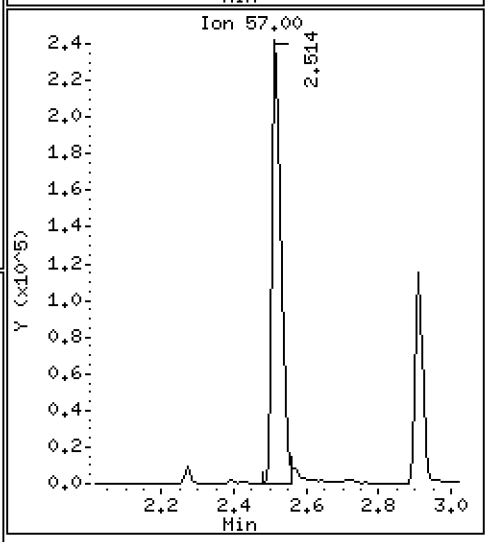
Column phase: DB-VRX Column diameter: 0.25

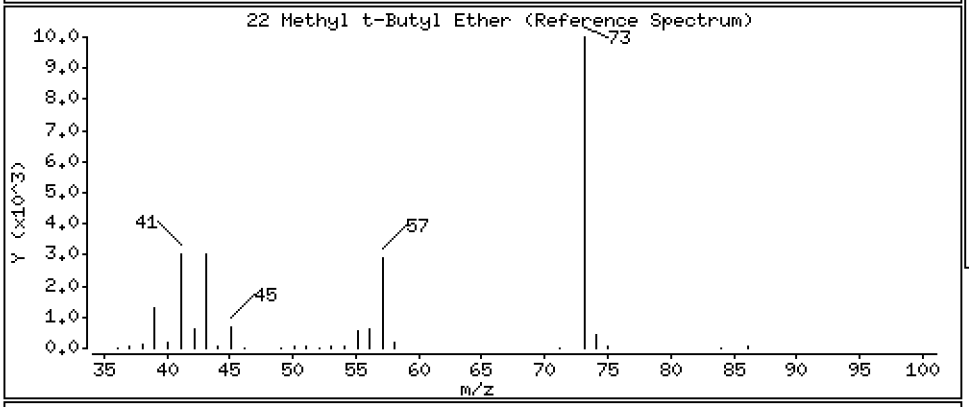
22 Methyl t-Butyl Ether Concentration: 19.7633 ug/L

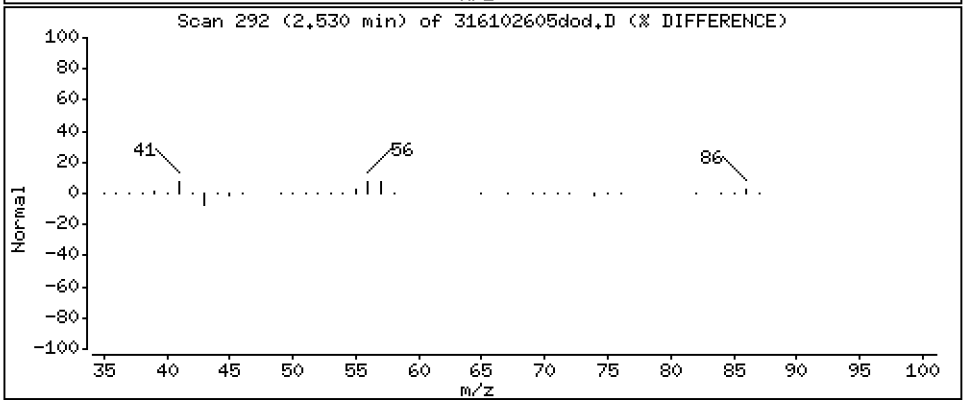












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 35

Date : 26-OCT-2016 10:55

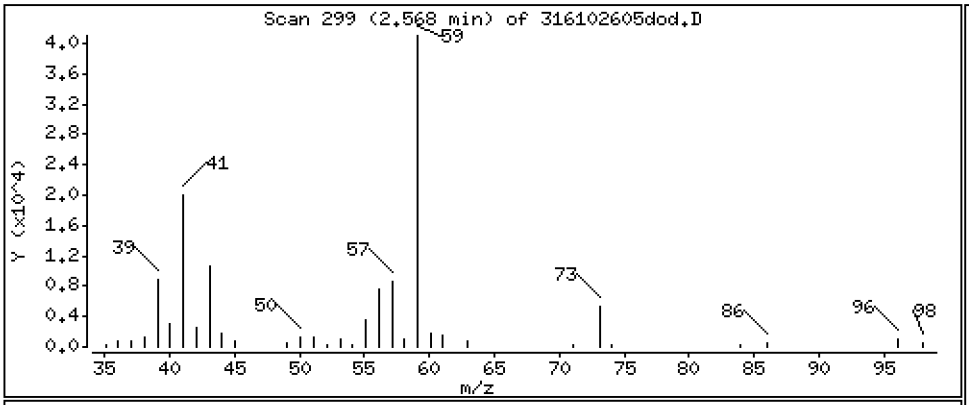
Client ID: LCS for HBN 174350 Instrument: ms03.i

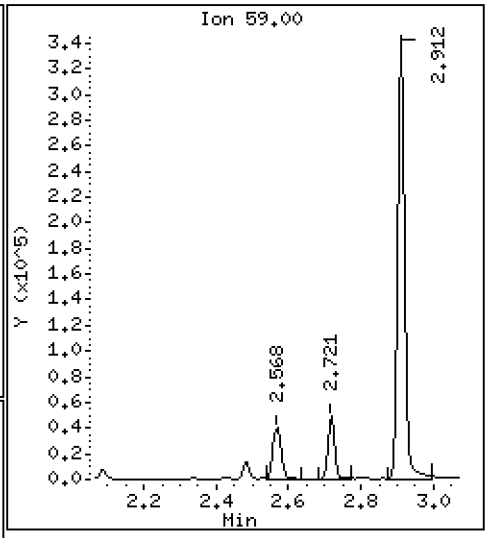
Sample Info: 2429648;;1;3;;LCS;1;

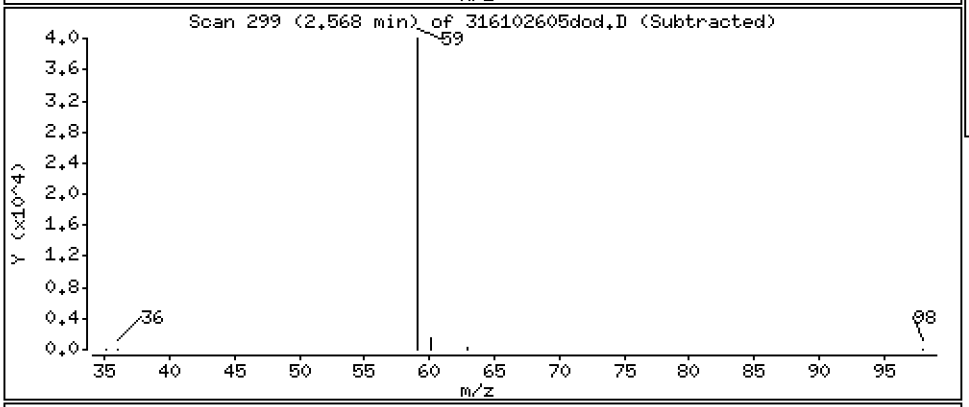
Purge Volume: 5.0 Operator: DD

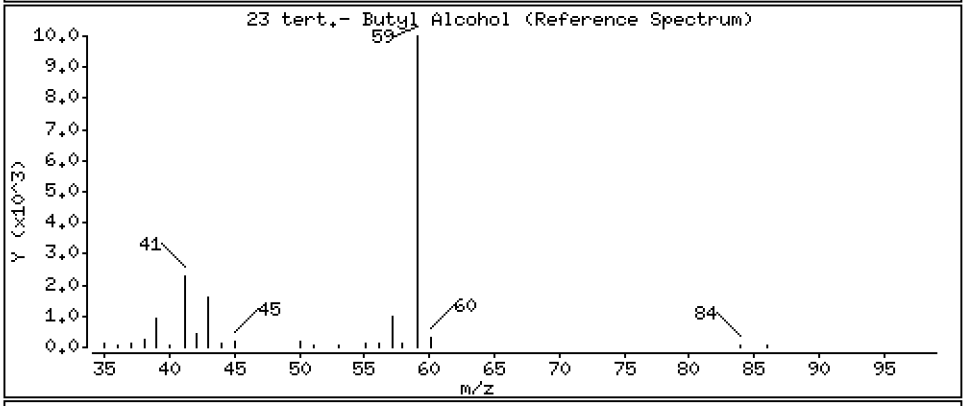
Column phase: DB-VRX Column diameter: 0.25

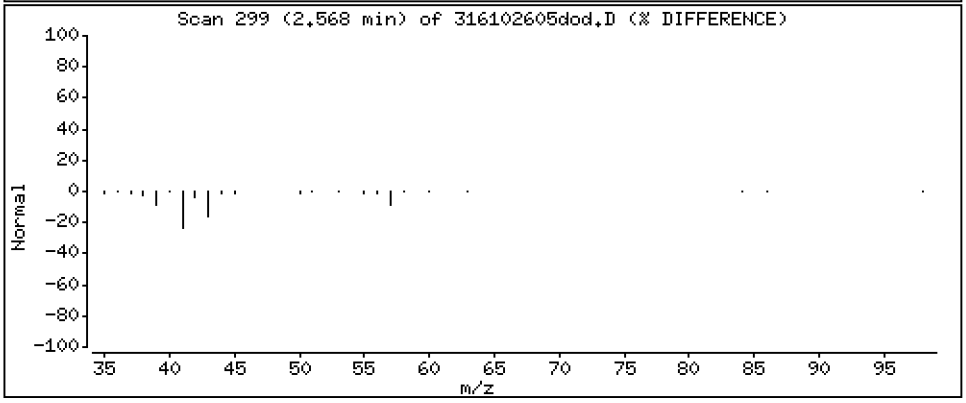
23 tert.- Butyl Alcohol Concentration: 129.293 ug/L











Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 36

Date : 26-OCT-2016 10:55

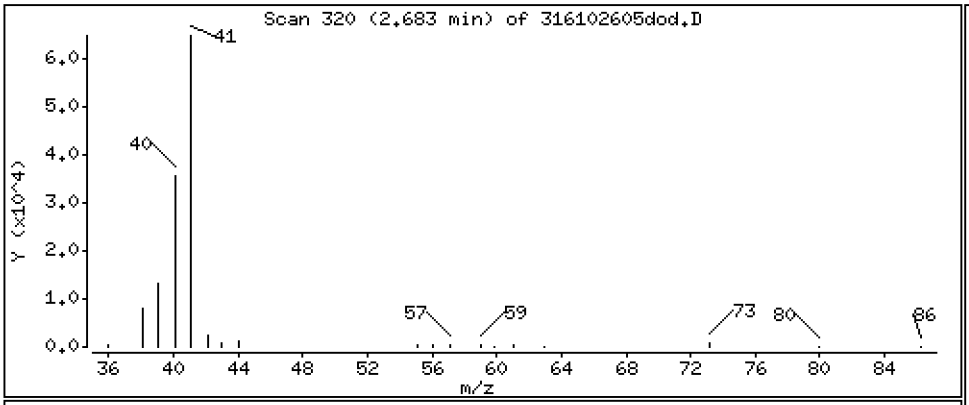
Client ID: LCS for HBN 174350 Instrument: ms03.i

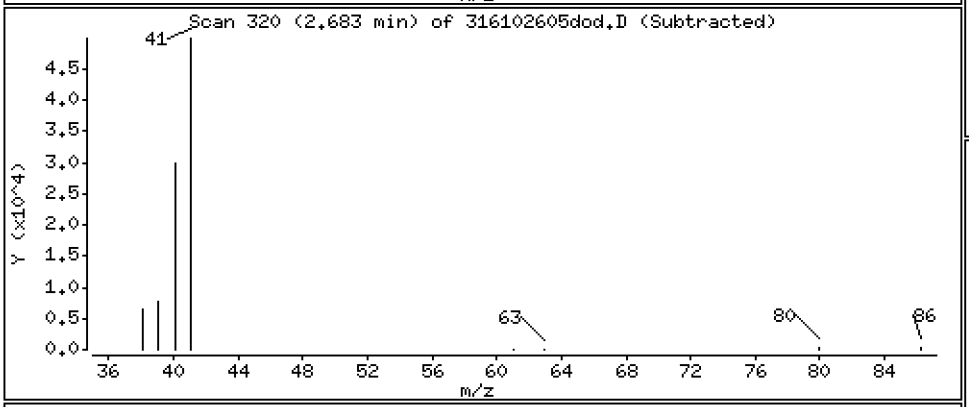
Sample Info: 2429648;;1;3;;LCS;1;

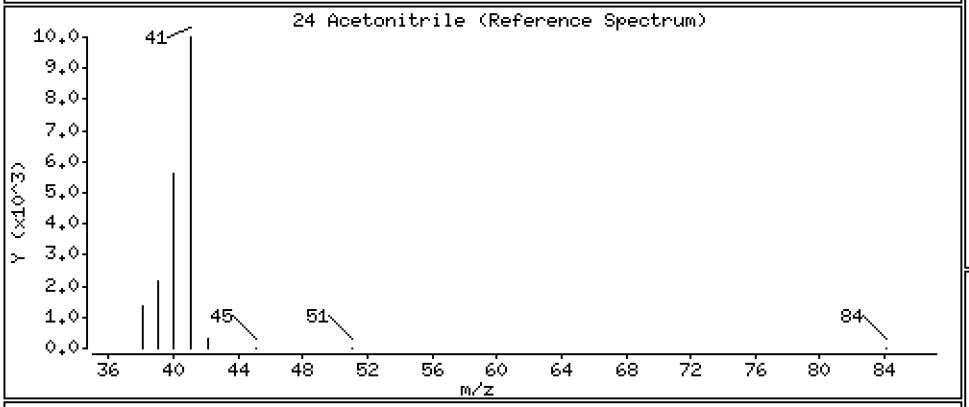
Purge Volume: 5.0 Operator: DD

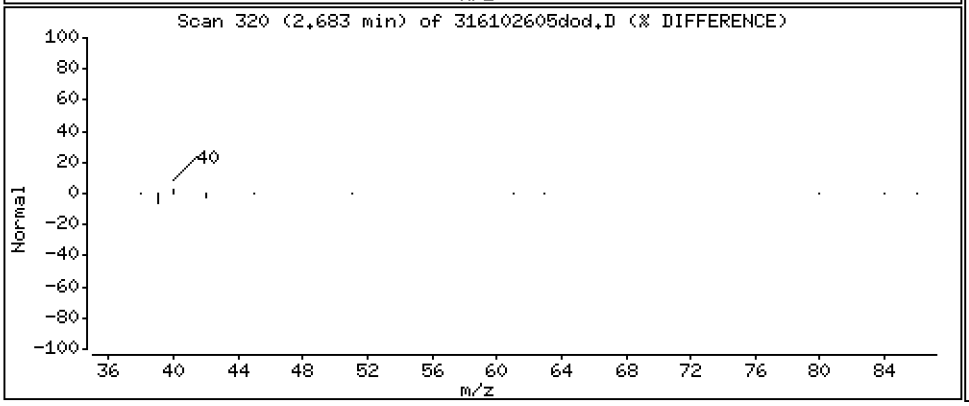
Column phase: DB-VRX Column diameter: 0.25

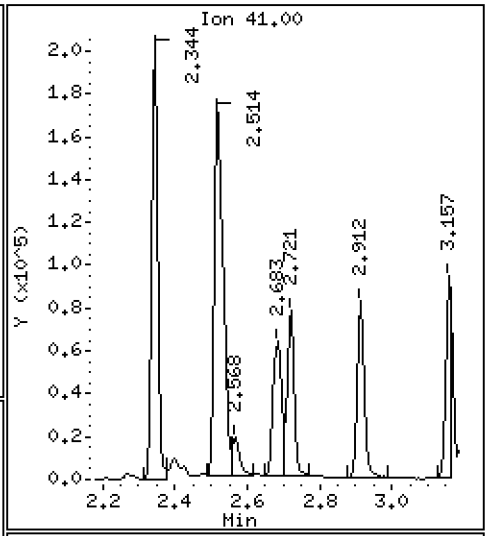
24 Acetonitrile Concentration: 138.131 ug/L

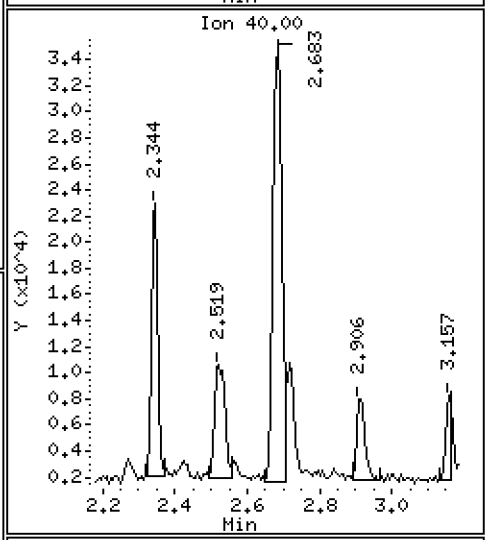


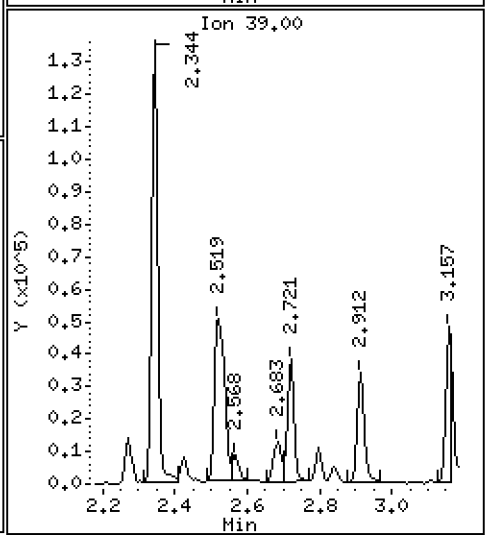












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 37

Date : 26-OCT-2016 10:55

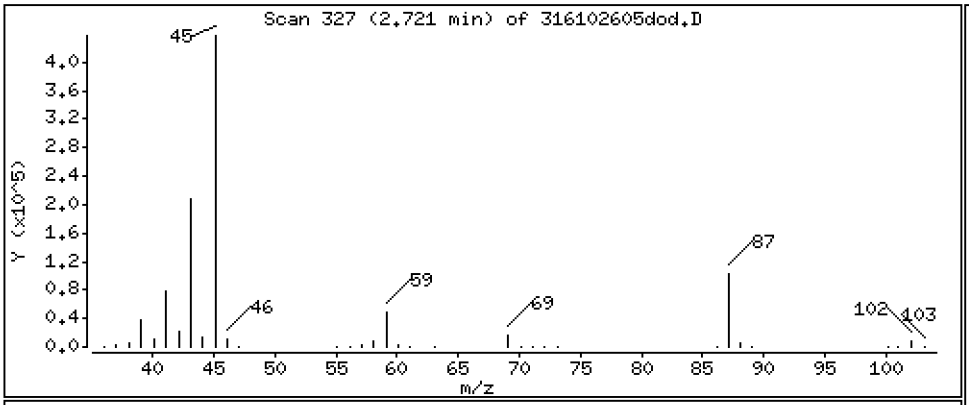
Client ID: LCS for HBN 174350 Instrument: ms03.i

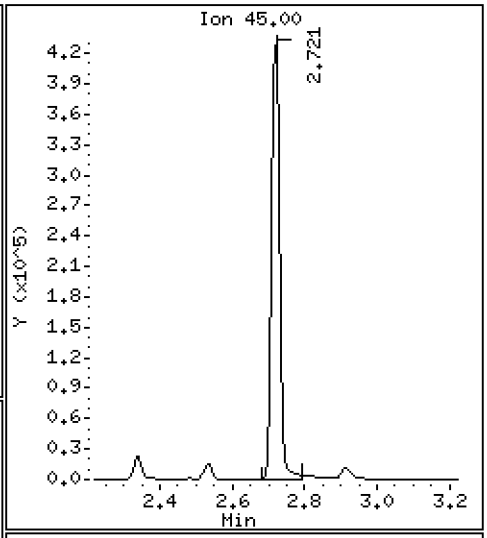
Sample Info: 2429648;;1;3;;LCS;1;

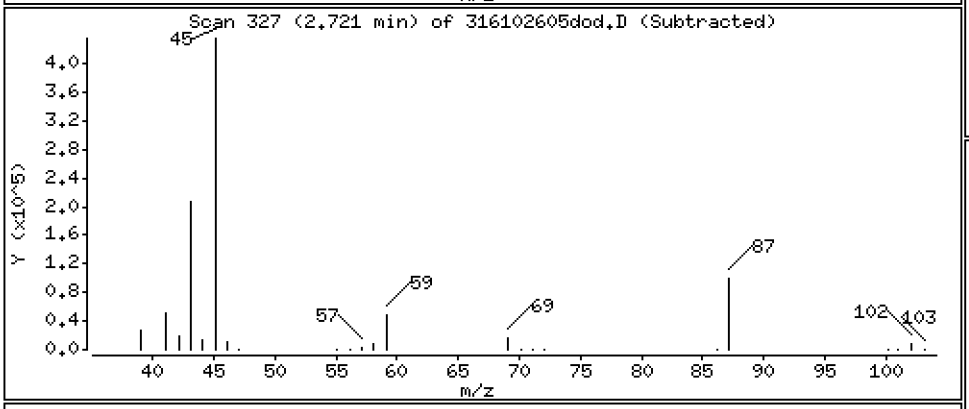
Purge Volume: 5.0 Operator: DD

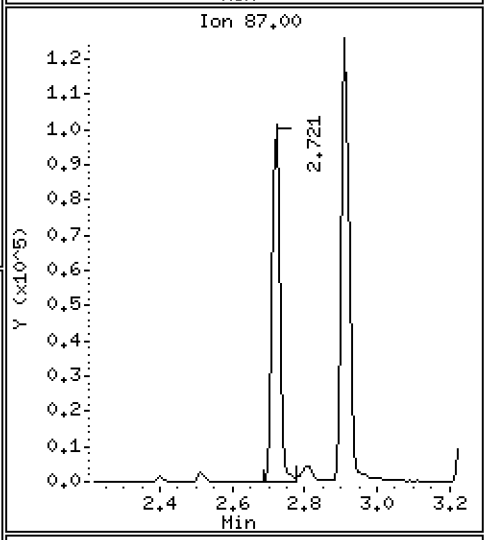
Column phase: DB-VRX Column diameter: 0.25

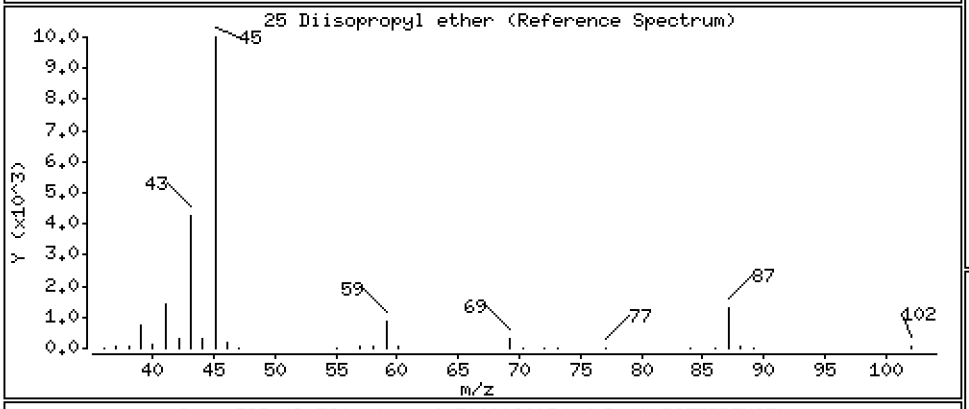
25 Diisopropyl ether Concentration: 21.7689 ug/L

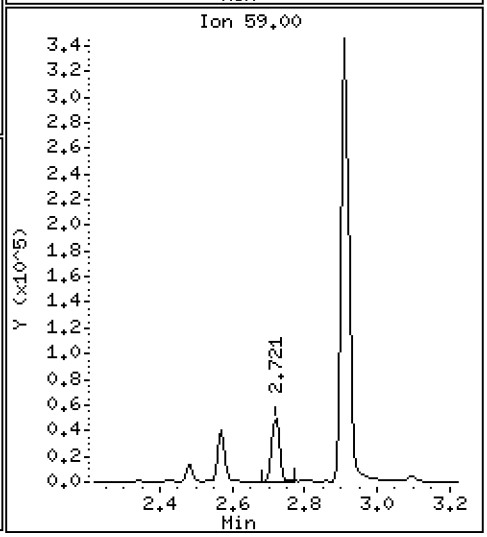


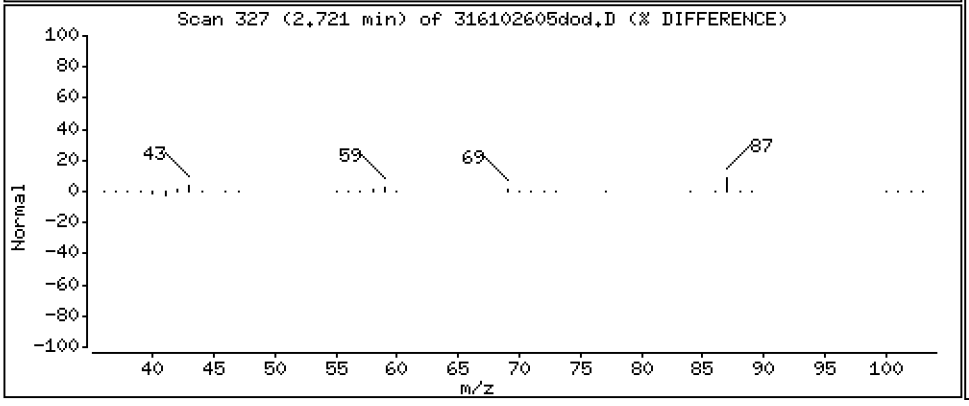












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 38

Date : 26-OCT-2016 10:55

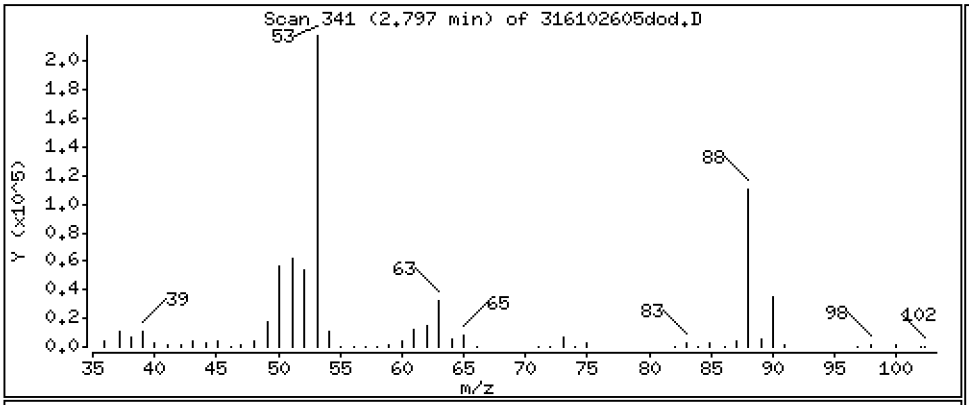
Client ID: LCS for HBN 174350 Instrument: ms03.i

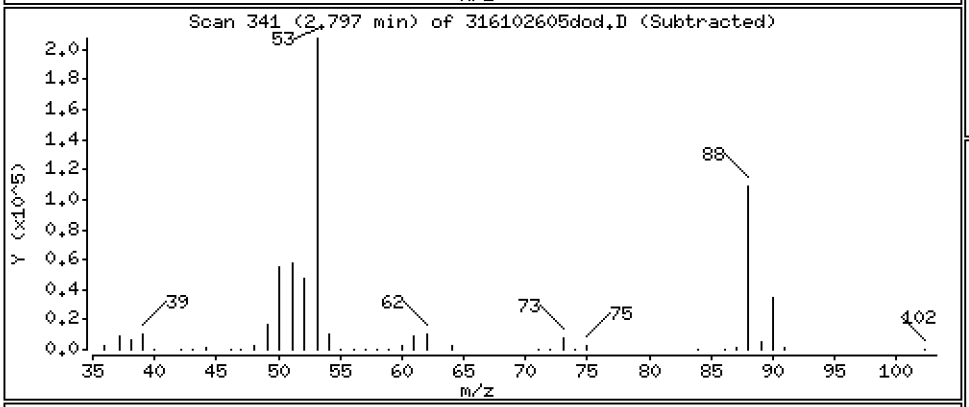
Sample Info: 2429648;;1;3;;LCS;1;

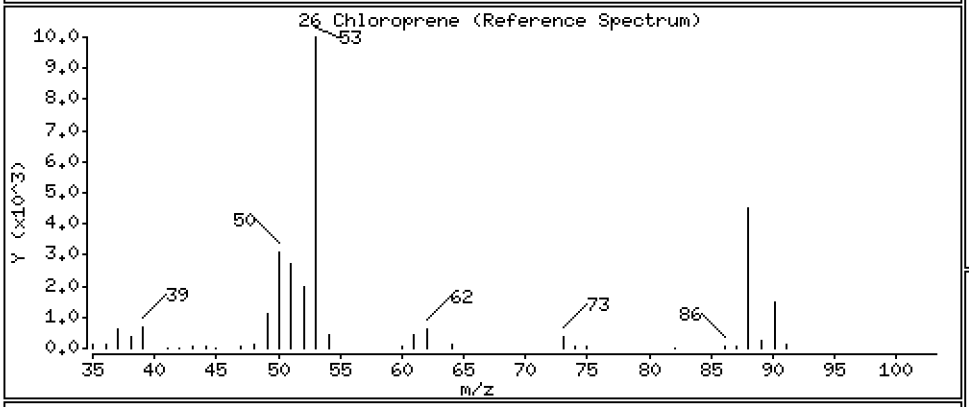
Purge Volume: 5.0 Operator: DD

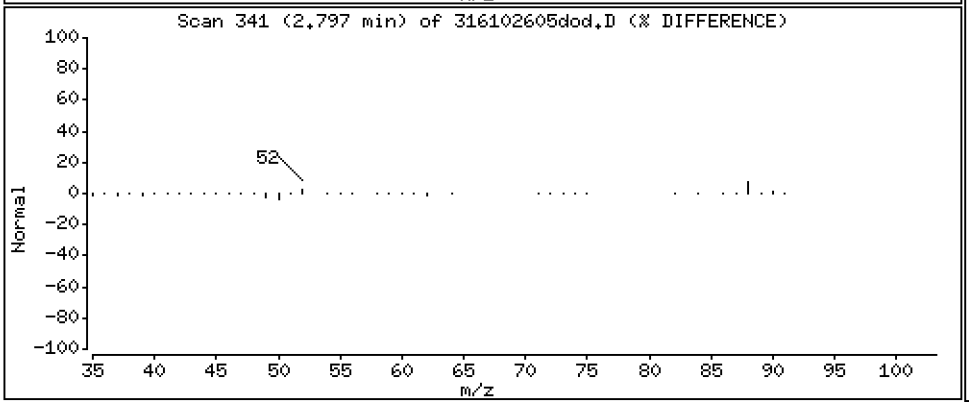
Column phase: DB-VRX Column diameter: 0.25

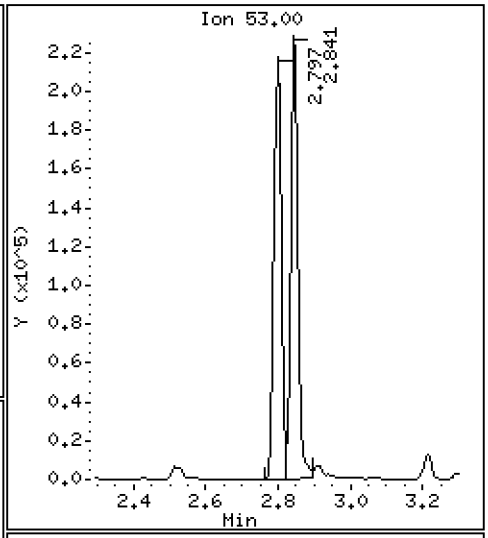
26 Chloroprene Concentration: 22.9303 ug/L

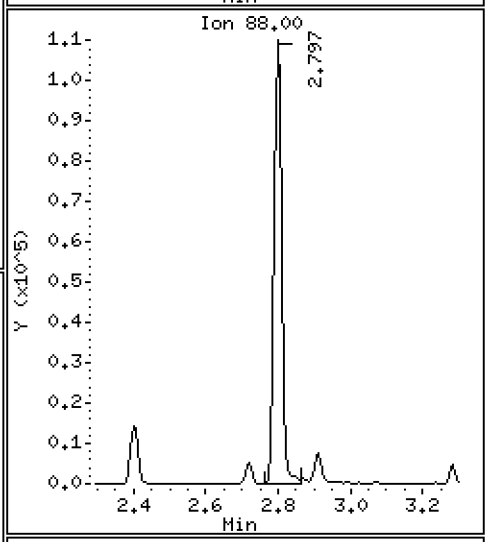


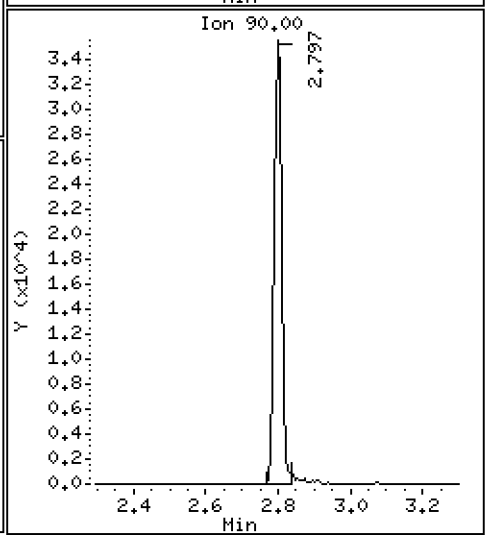












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 39

Date : 26-OCT-2016 10:55

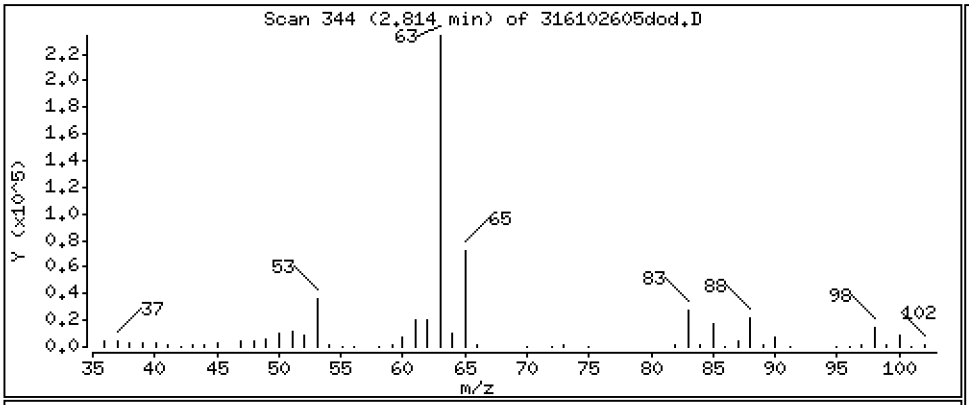
Client ID: LCS for HBN 174350 Instrument: ms03.i

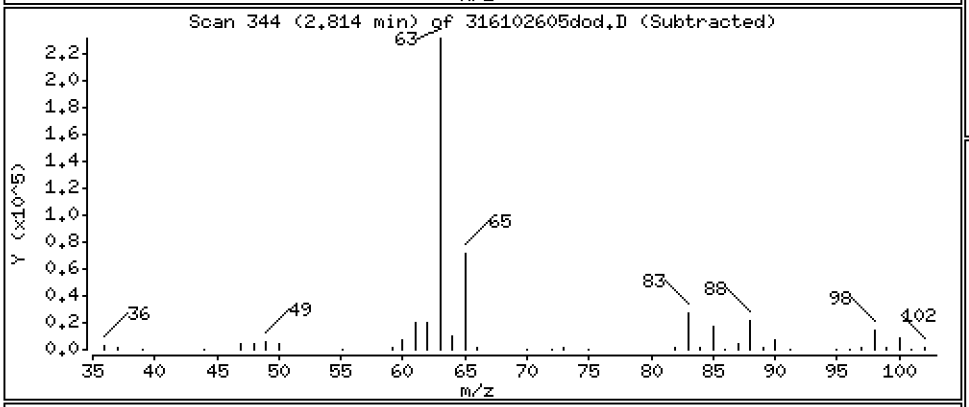
Sample Info: 2429648;;1;3;;LCS;1;

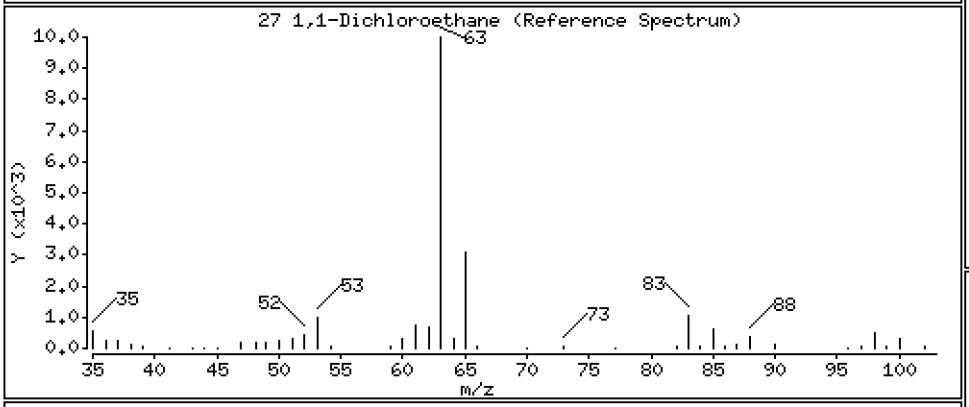
Purge Volume: 5.0 Operator: DD

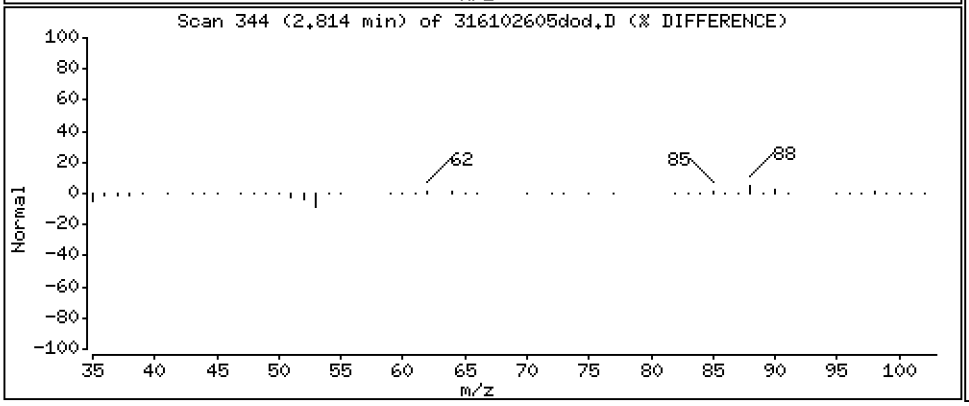
Column phase: DB-VRX Column diameter: 0.25

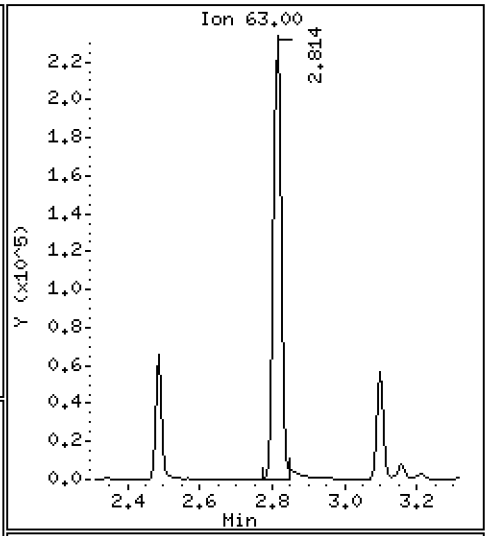
27 1,1-Dichloroethane Concentration: 19.6482 ug/L

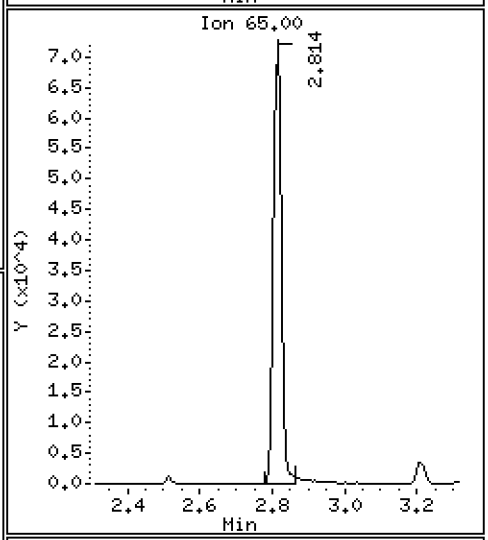


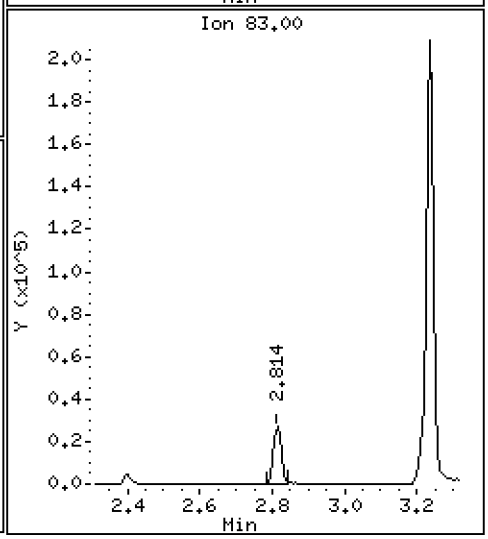












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 40

Date : 26-OCT-2016 10:55

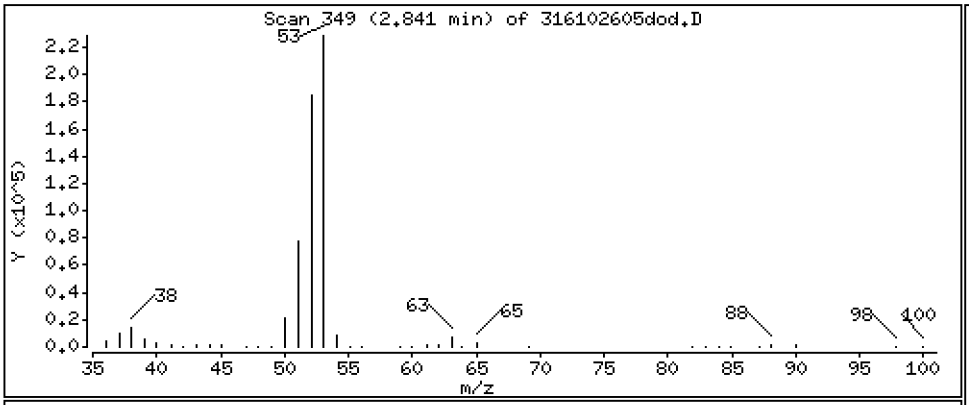
Client ID: LCS for HBN 174350 Instrument: ms03.i

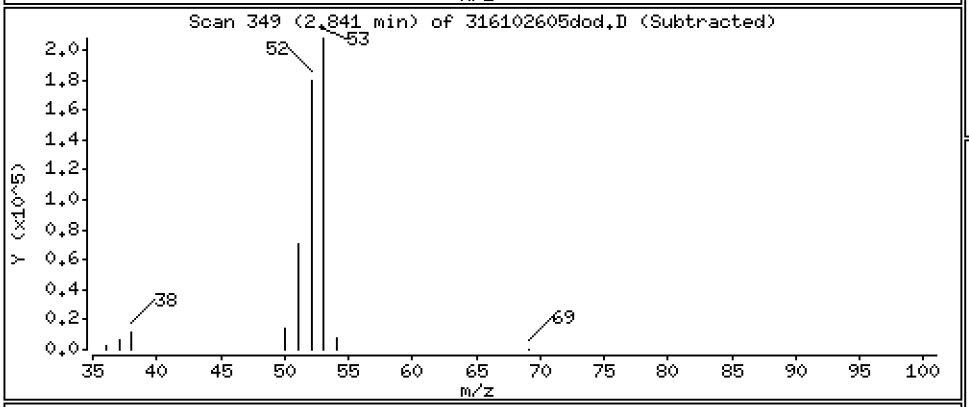
Sample Info: 2429648;;1;3;;LCS;1;

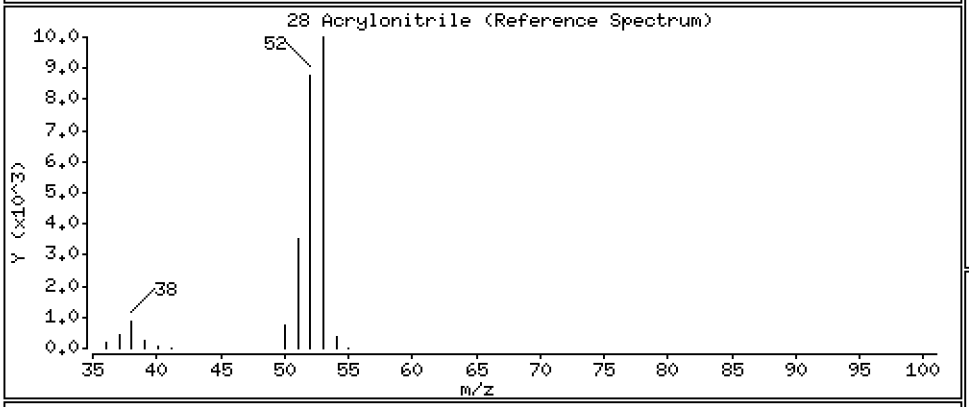
Purge Volume: 5.0 Operator: DD

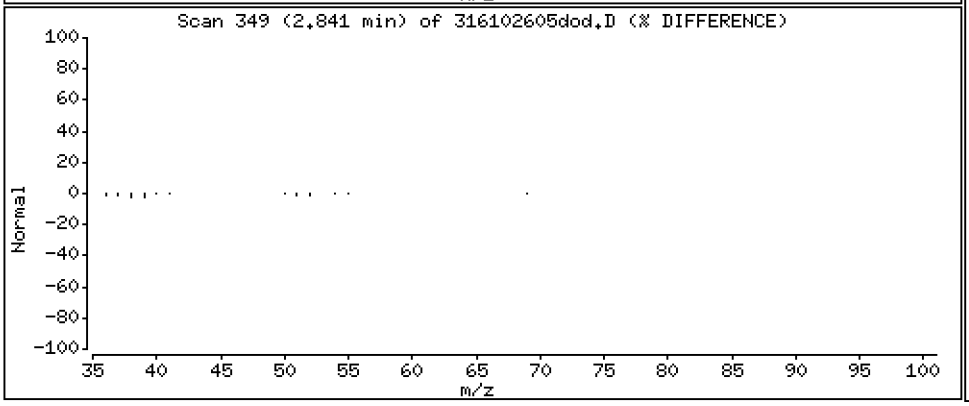
Column phase: DB-VRX Column diameter: 0.25

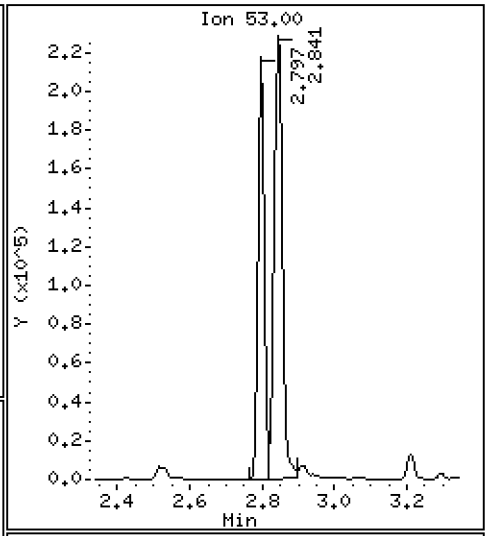
28 Acrylonitrile Concentration: 116.376 ug/L

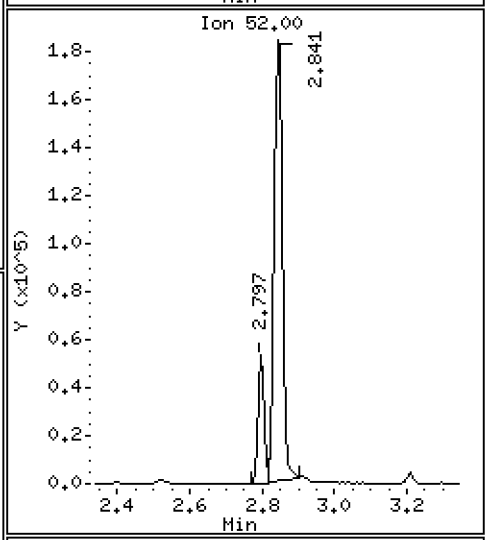


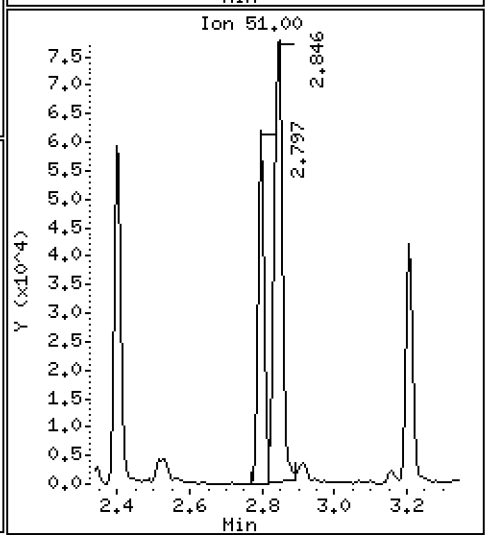












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 41

Date : 26-OCT-2016 10:55

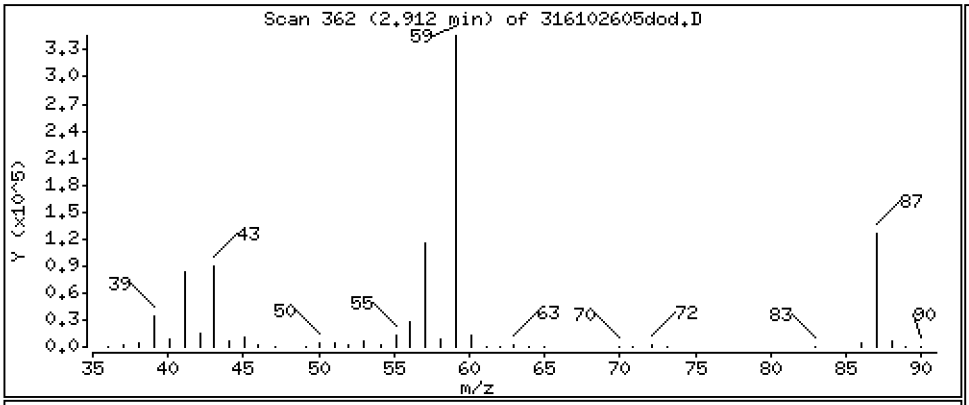
Client ID: LCS for HBN 174350 Instrument: ms03.i

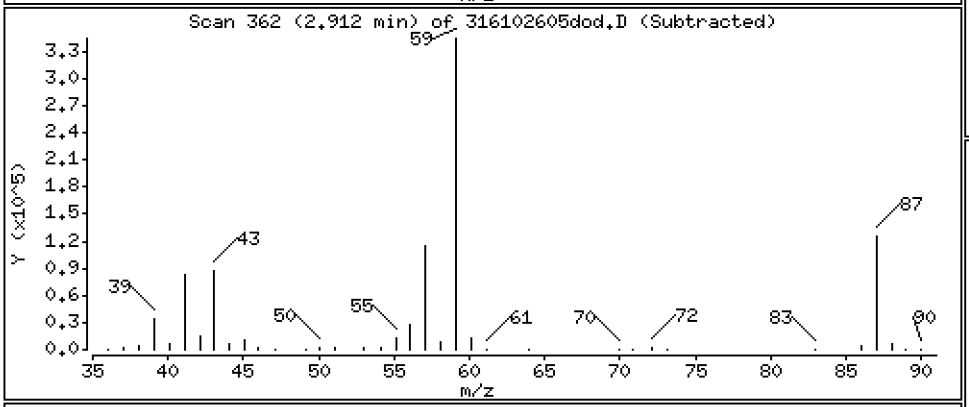
Sample Info: 2429648;;1;3;;LCS;1;

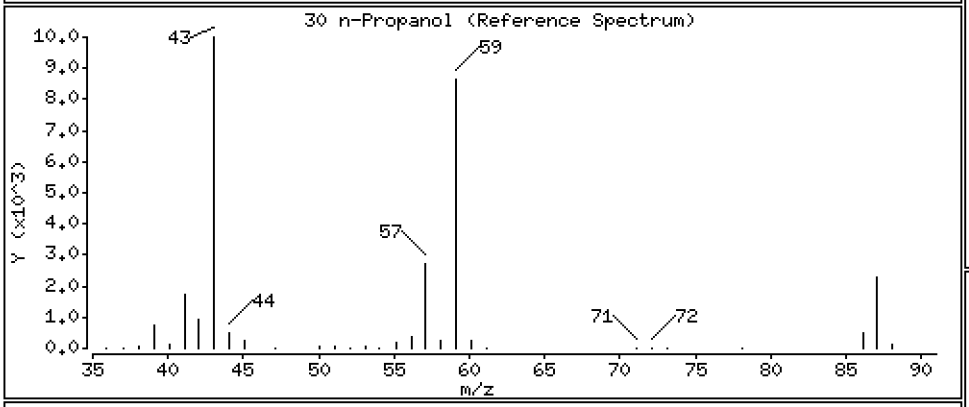
Purge Volume: 5.0 Operator: DD

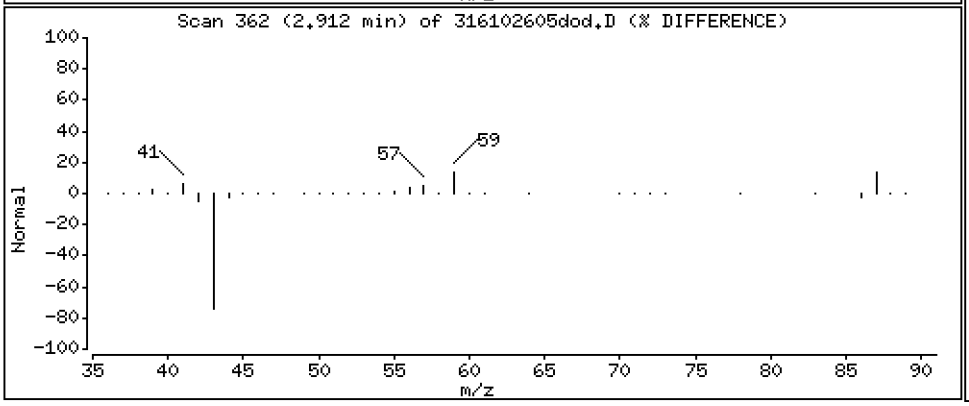
Column phase: DB-VRX Column diameter: 0.25

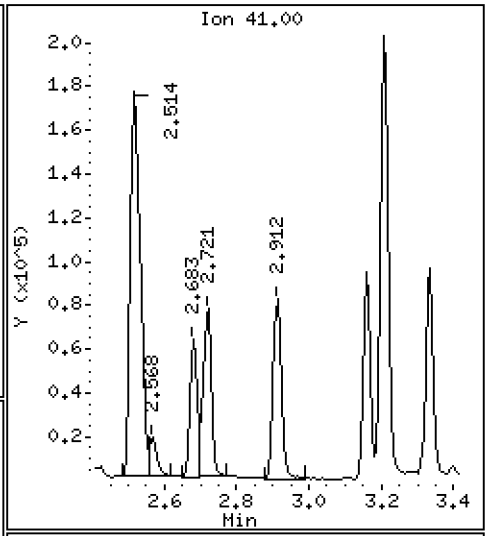
30 n-Propanol Concentration: 243.633 ug/L

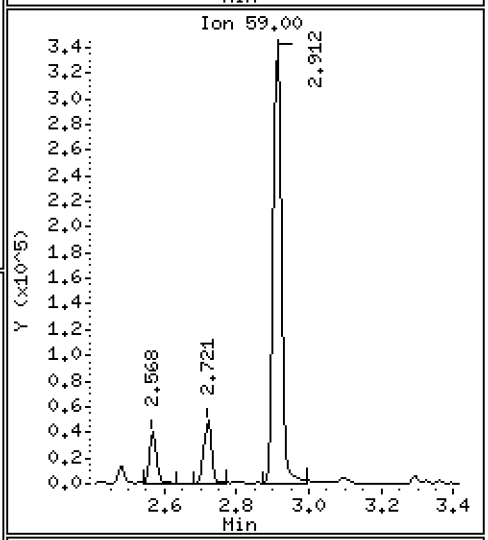


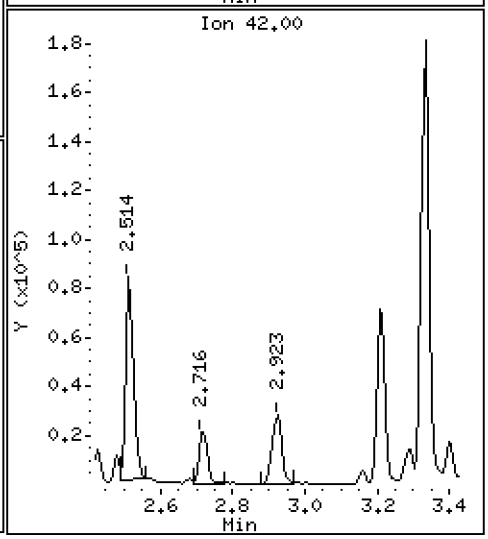












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 42

Date : 26-OCT-2016 10:55

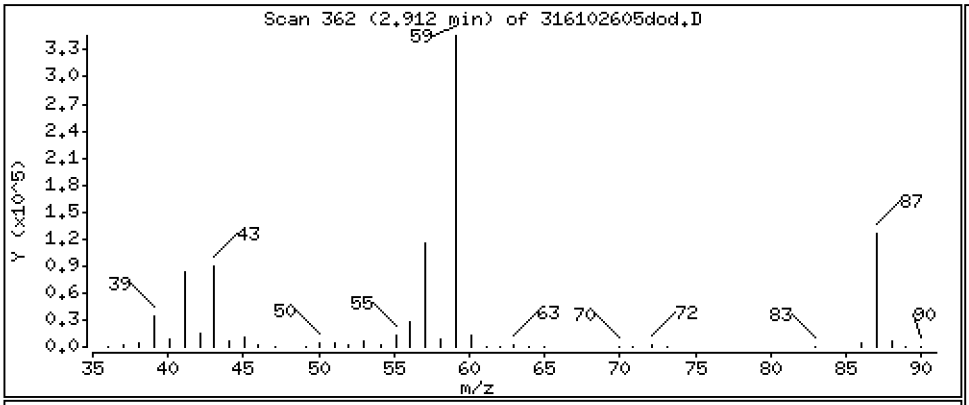
Client ID: LCS for HBN 174350 Instrument: ms03.i

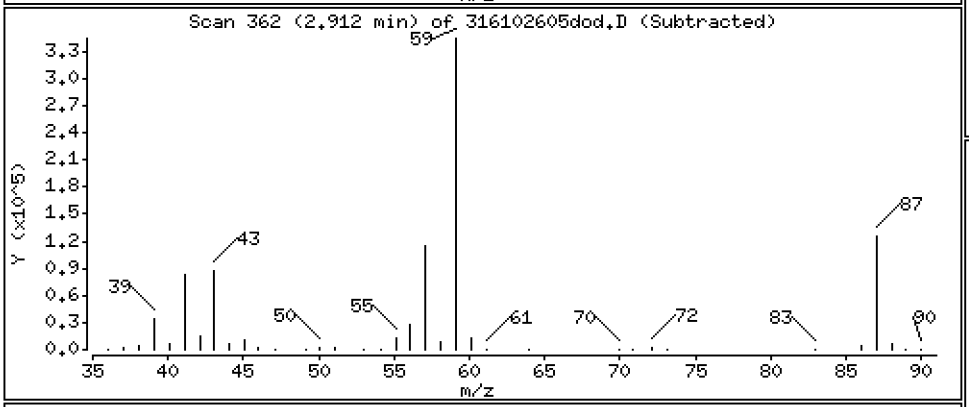
Sample Info: 2429648;;1;3;;LCS;1;

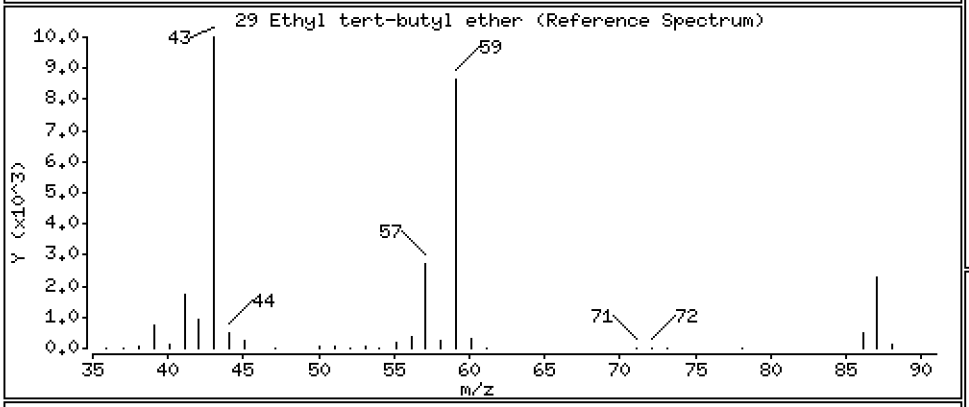
Purge Volume: 5.0 Operator: DD

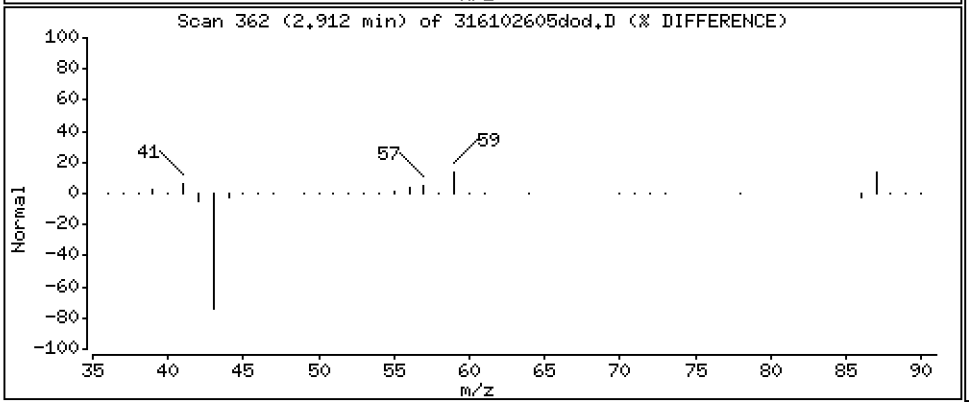
Column phase: DB-VRX Column diameter: 0.25

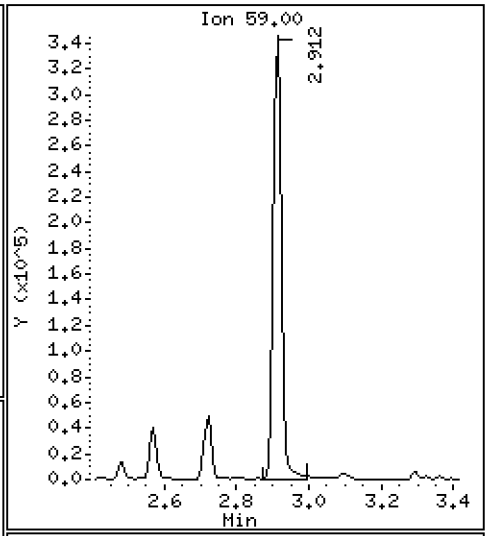
29 Ethyl tert-butyl ether Concentration: 20.9034 ug/L

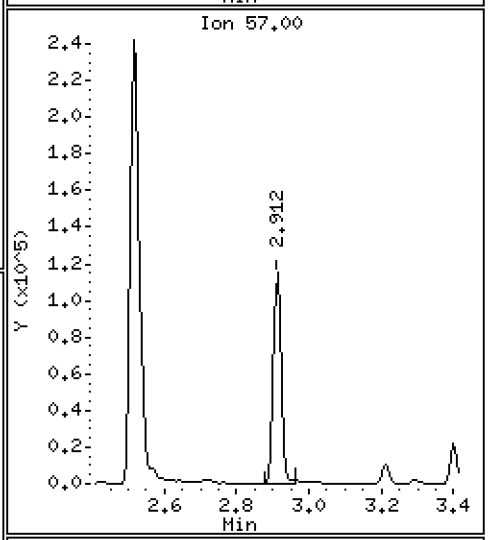


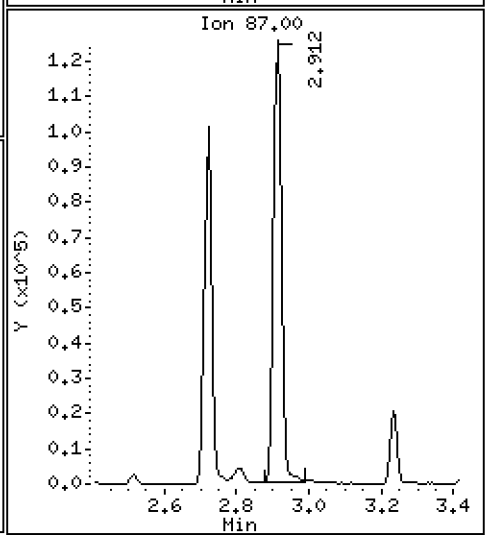












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 43

Date : 26-OCT-2016 10:55

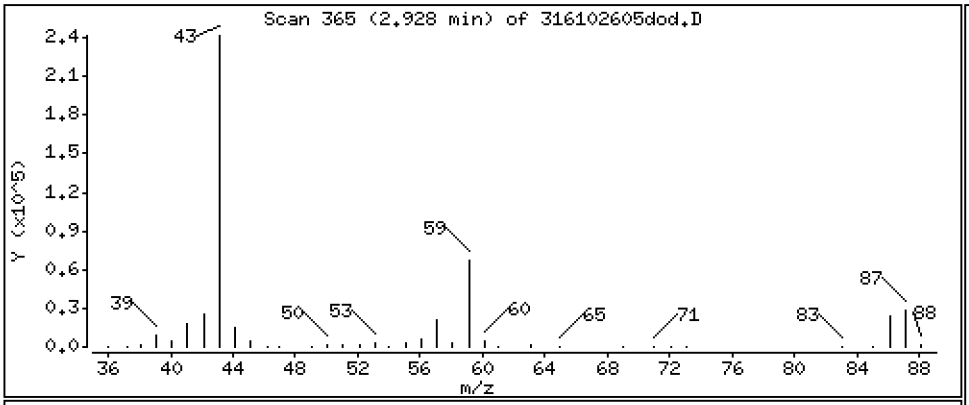
Client ID: LCS for HBN 174350 Instrument: ms03.i

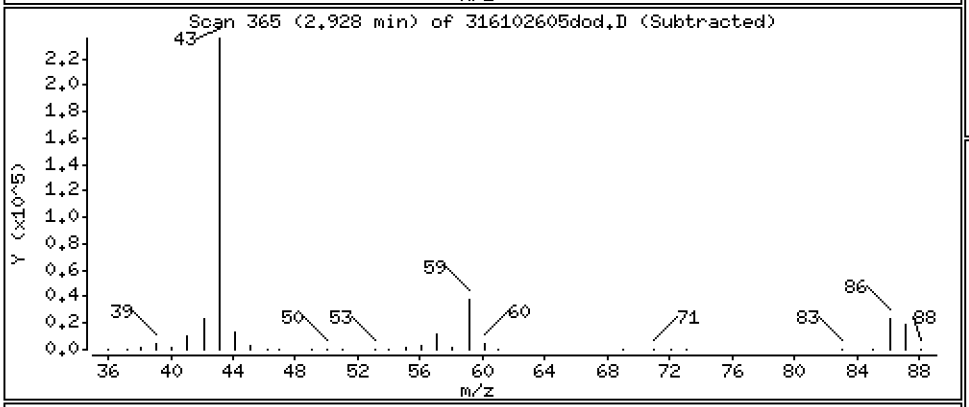
Sample Info: 2429648;;1;3;;LCS;1;

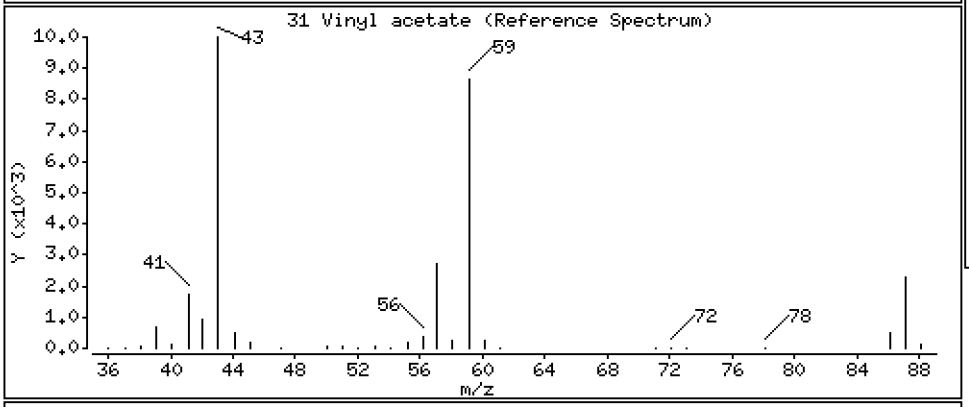
Purge Volume: 5.0 Operator: DD

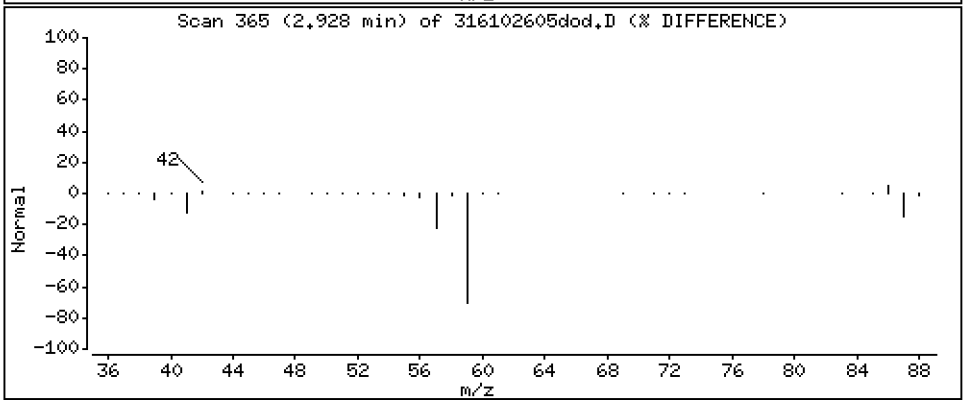
Column phase: DB-VRX Column diameter: 0.25

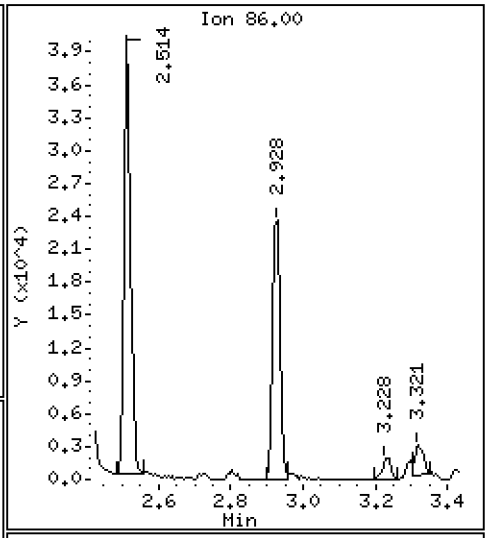
31 Vinyl acetate Concentration: 17.3390 ug/L

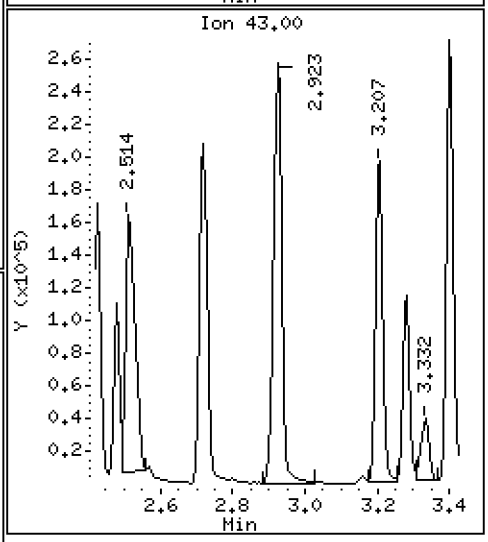












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 44

Date : 26-OCT-2016 10:55

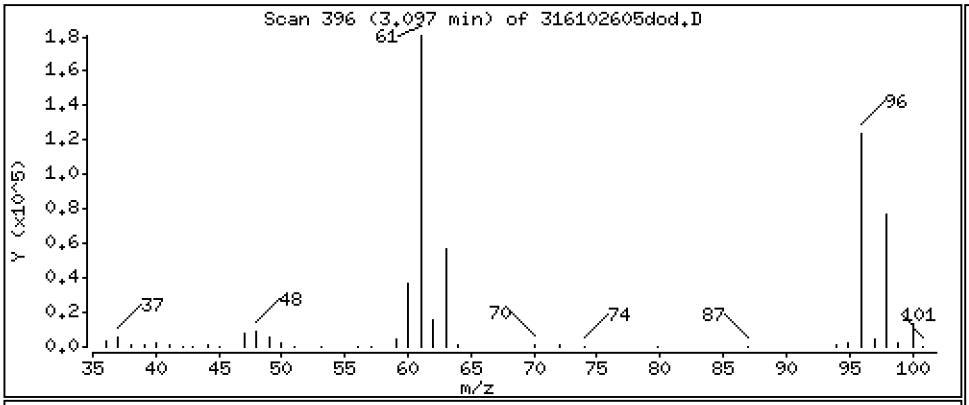
Client ID: LCS for HBN 174350 Instrument: ms03.i

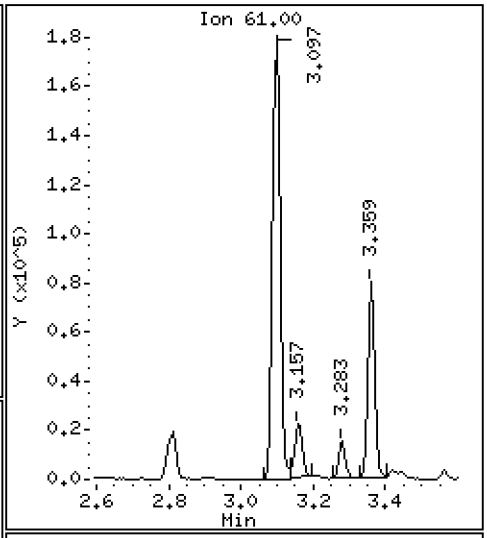
Sample Info: 2429648;;1;3;;LCS;1;

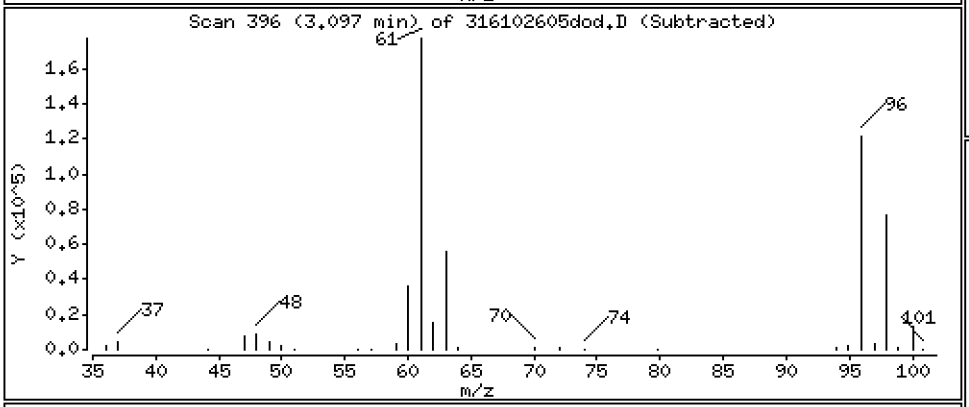
Purge Volume: 5.0 Operator: DD

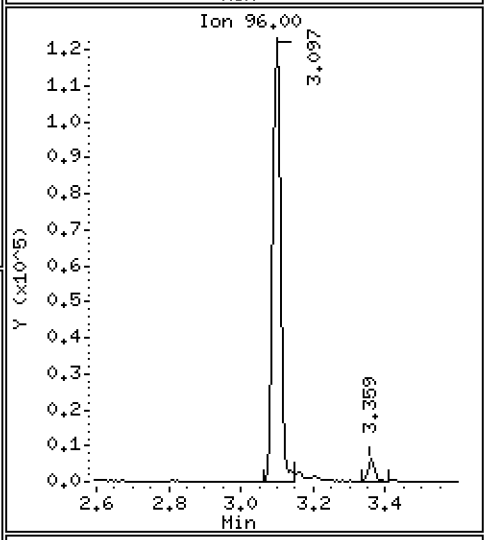
Column phase: DB-VRX Column diameter: 0.25

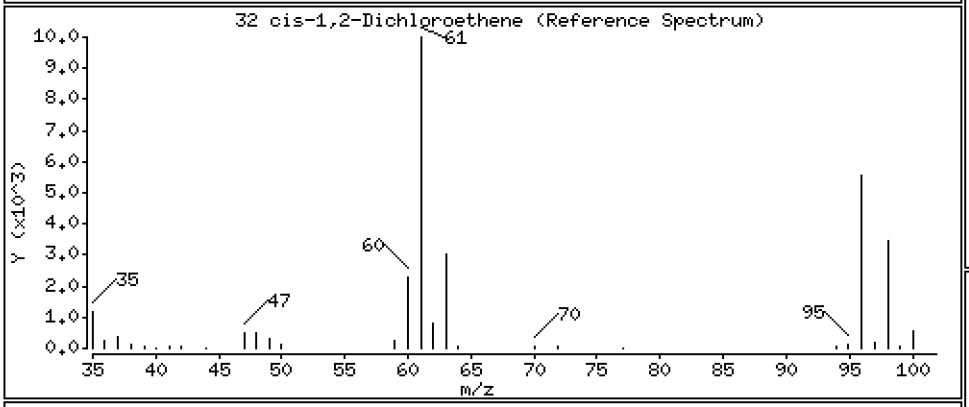
32 cis-1,2-Dichloroethene Concentration: 19.7357 ug/L

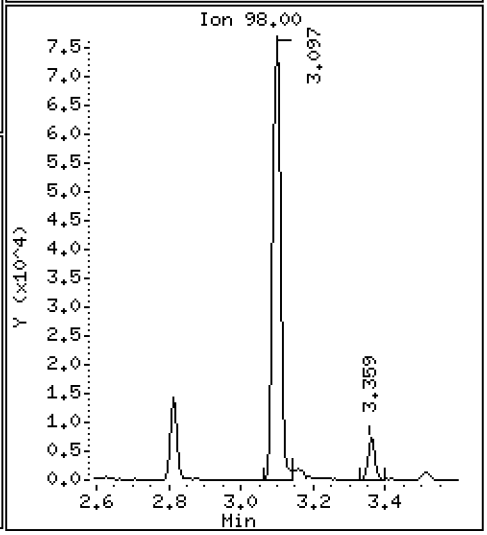


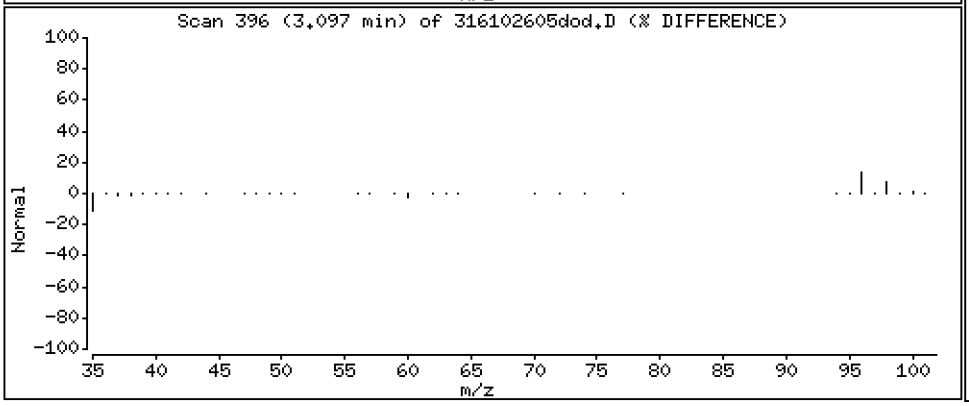












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 45

Date : 26-OCT-2016 10:55

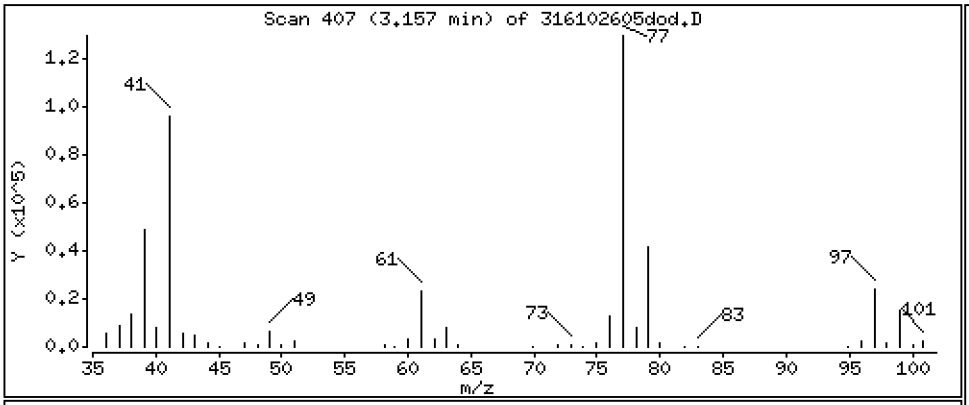
Client ID: LCS for HBN 174350 Instrument: ms03.i

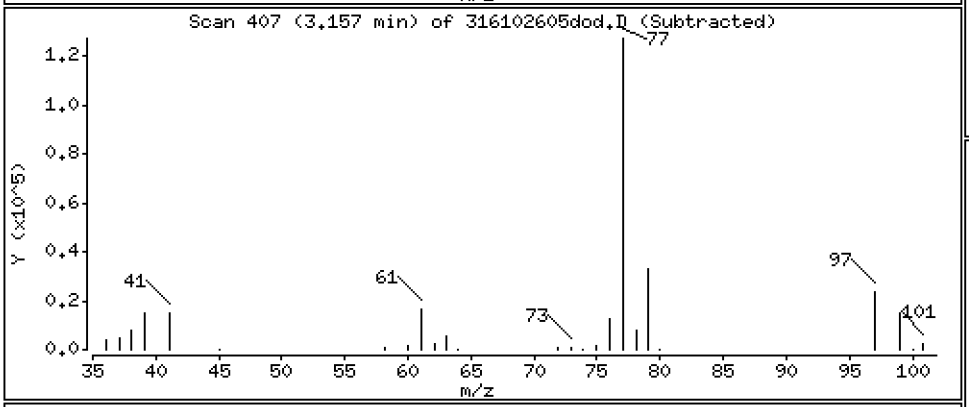
Sample Info: 2429648;;1;3;;LCS;1;

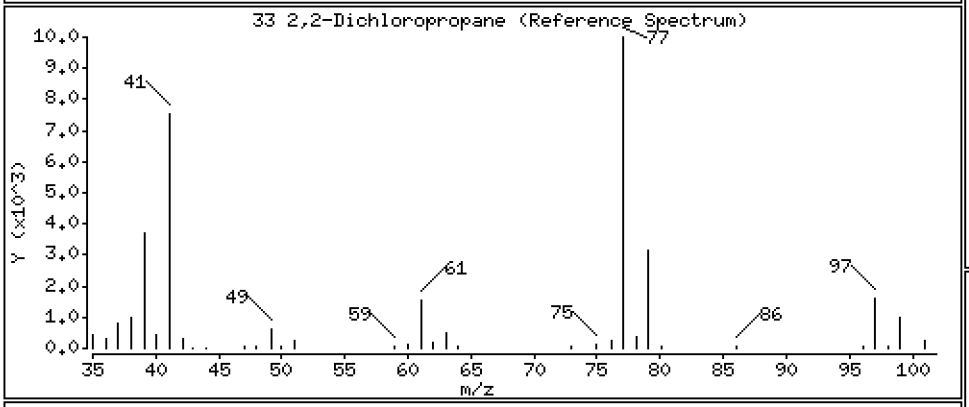
Purge Volume: 5.0 Operator: DD

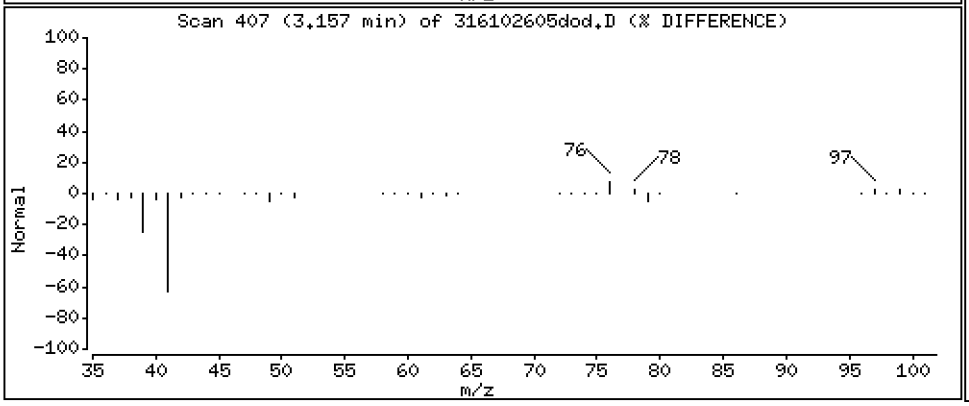
Column phase: DB-VRX Column diameter: 0.25

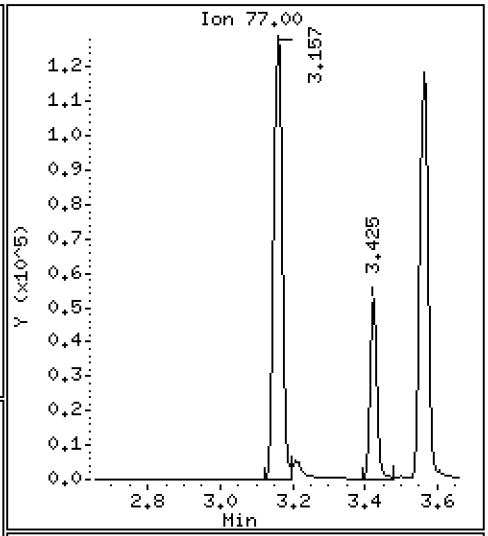
33 2,2-Dichloropropane Concentration: 19.9588 ug/L

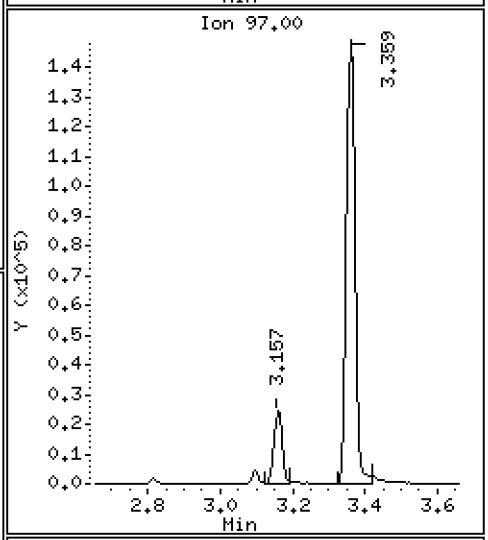


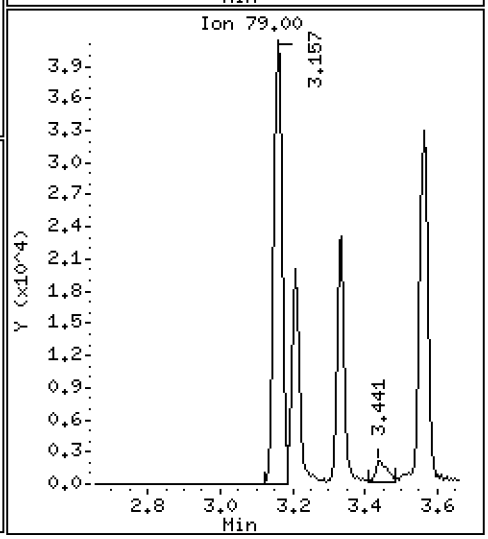












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 46

Date : 26-OCT-2016 10:55

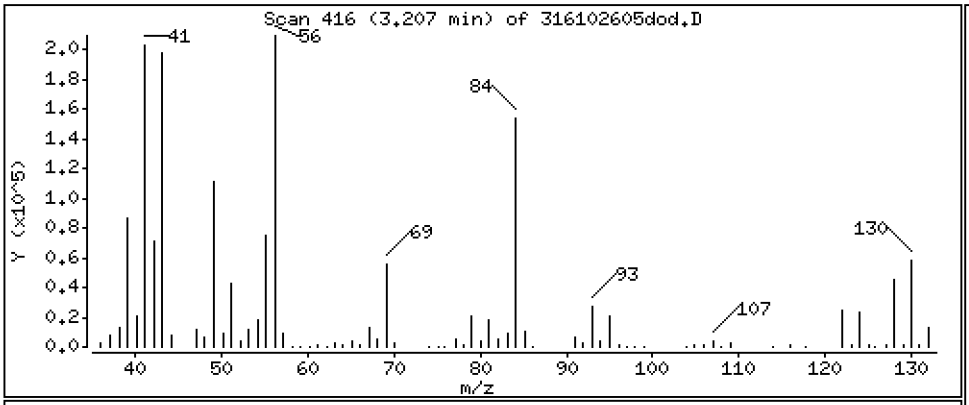
Client ID: LCS for HBN 174350 Instrument: ms03.i

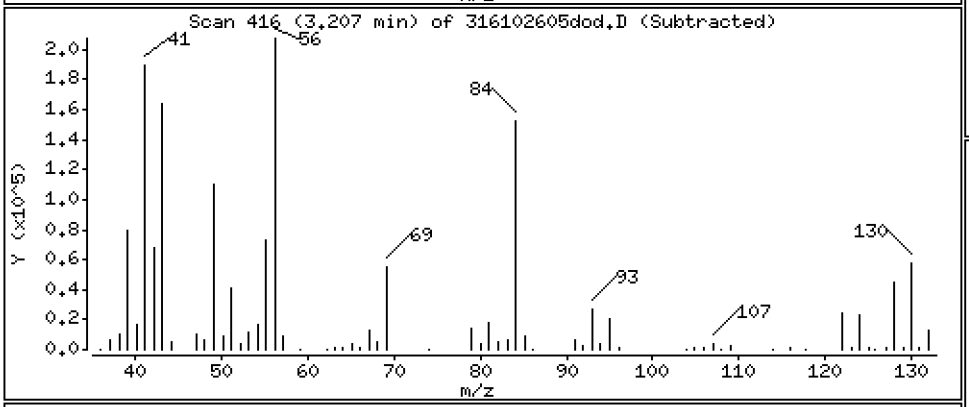
Sample Info: 2429648;;1;3;;LCS;1;

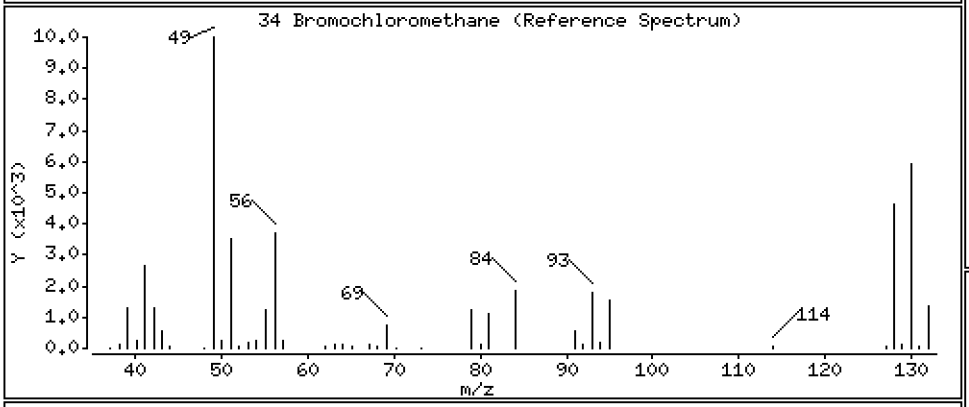
Purge Volume: 5.0 Operator: DD

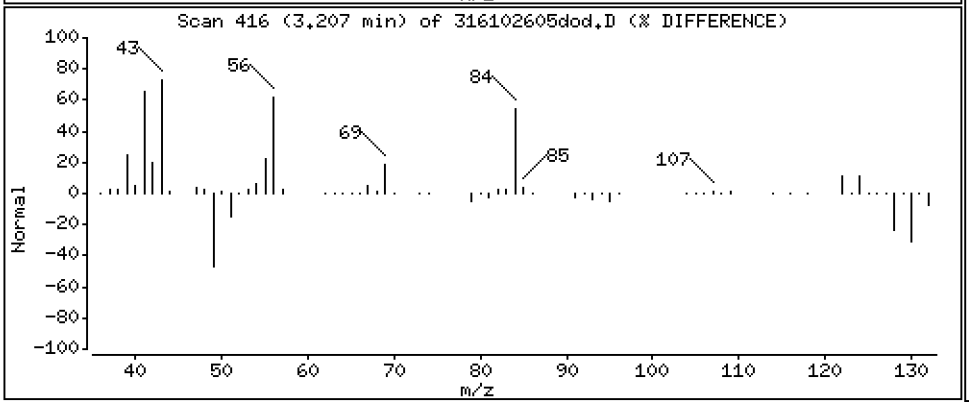
Column phase: DB-VRX Column diameter: 0.25

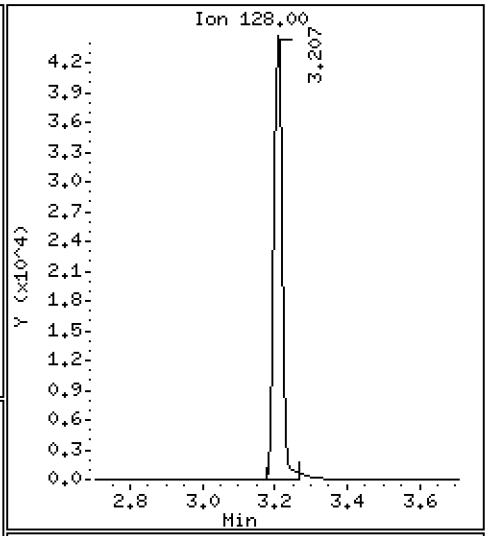
34 Bromochloromethane Concentration: 19.1805 ug/L

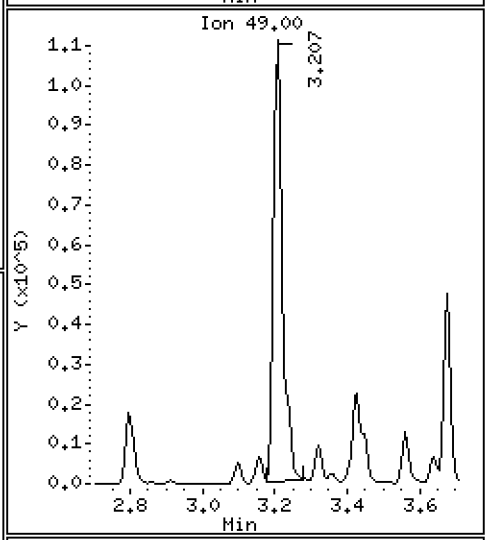


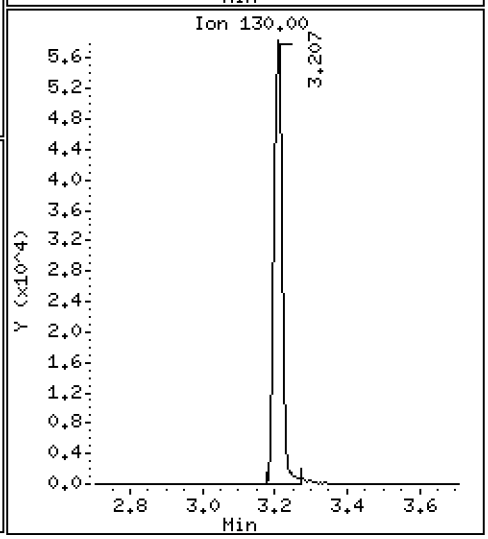












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 47

Date : 26-OCT-2016 10:55

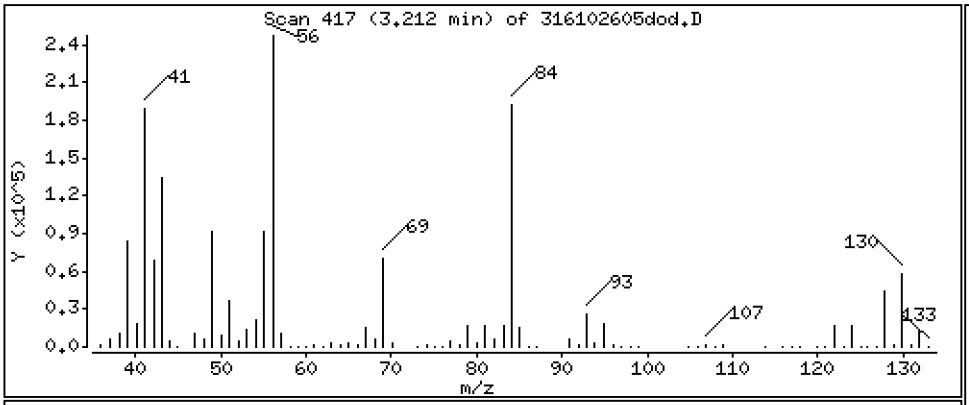
Client ID: LCS for HBN 174350 Instrument: ms03.i

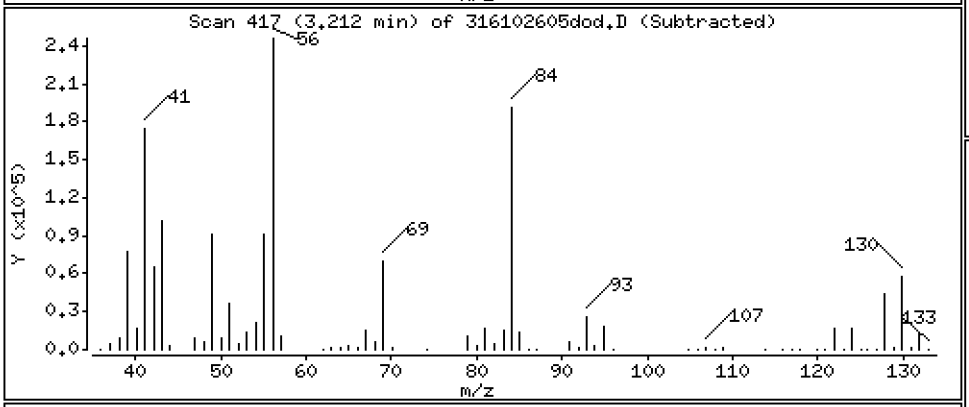
Sample Info: 2429648;;1;3;;LCS;1;

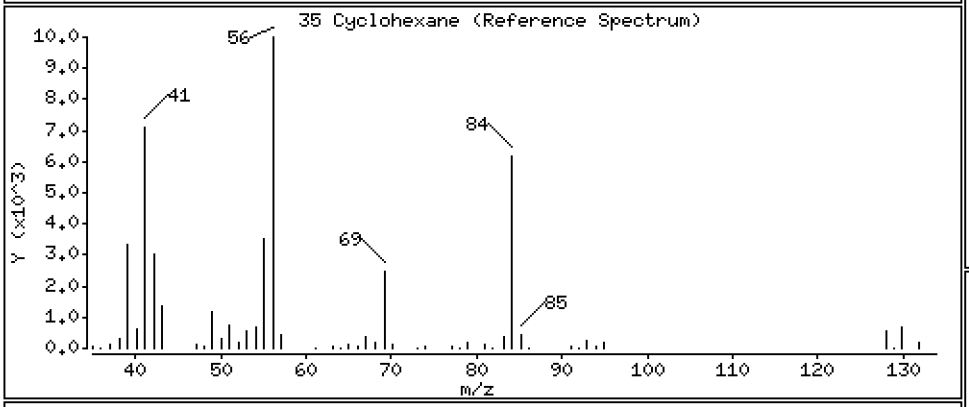
Purge Volume: 5.0 Operator: DD

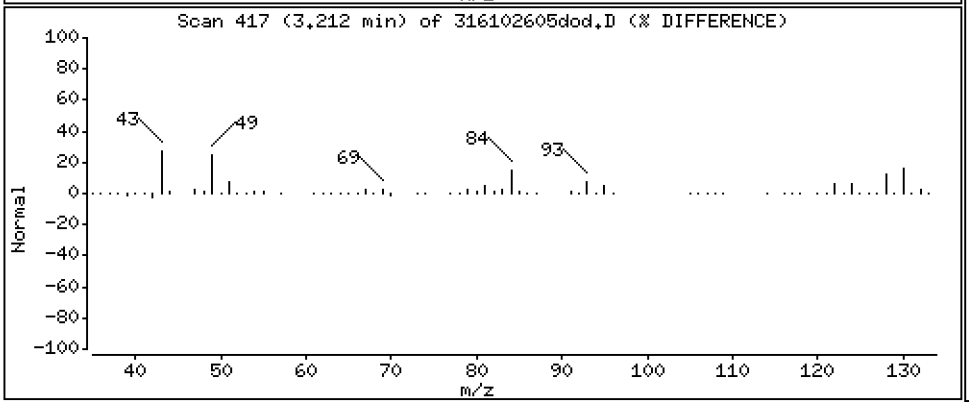
Column phase: DB-VRX Column diameter: 0.25

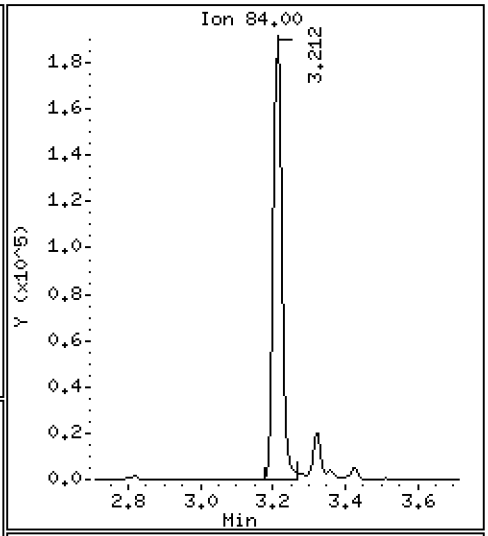
35 Cyclohexane Concentration: 21.9329 ug/L

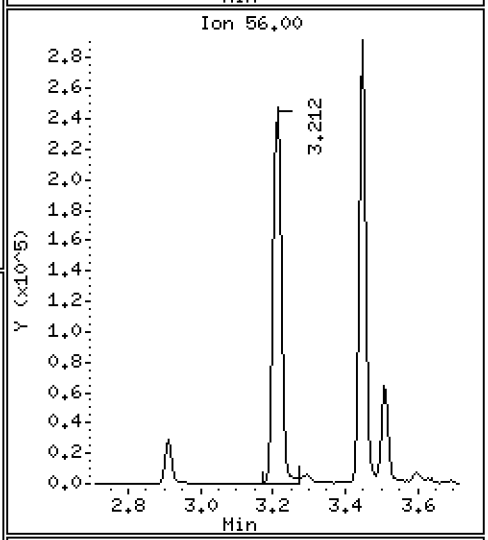


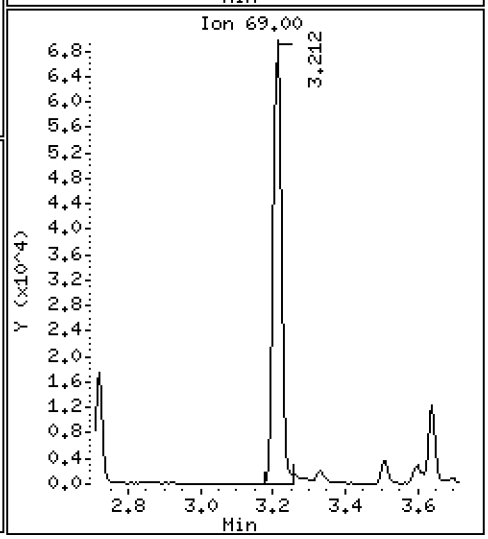












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 48

Date : 26-OCT-2016 10:55

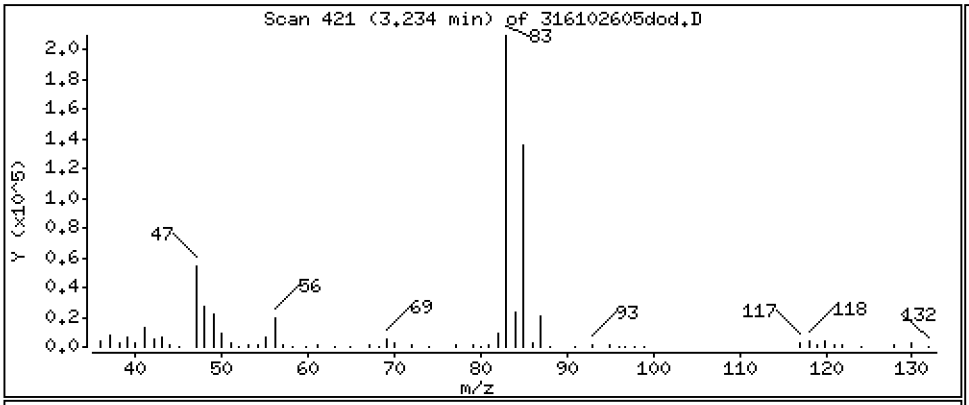
Client ID: LCS for HBN 174350 Instrument: ms03.i

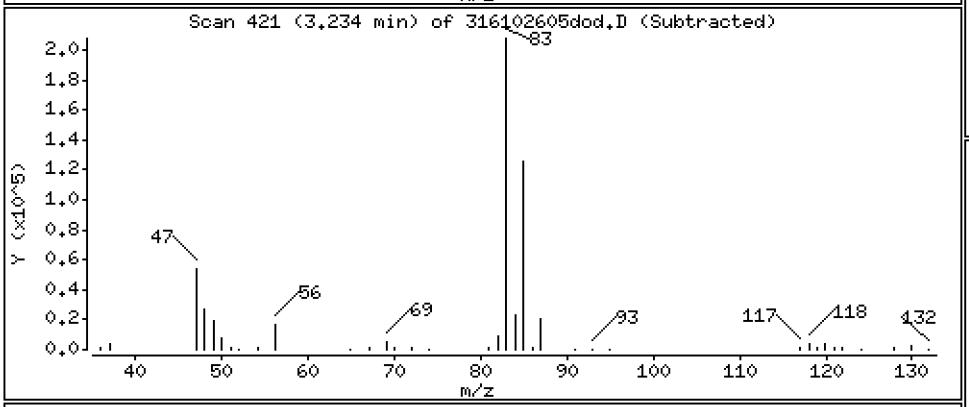
Sample Info: 2429648;;1;3;;LCS;1;

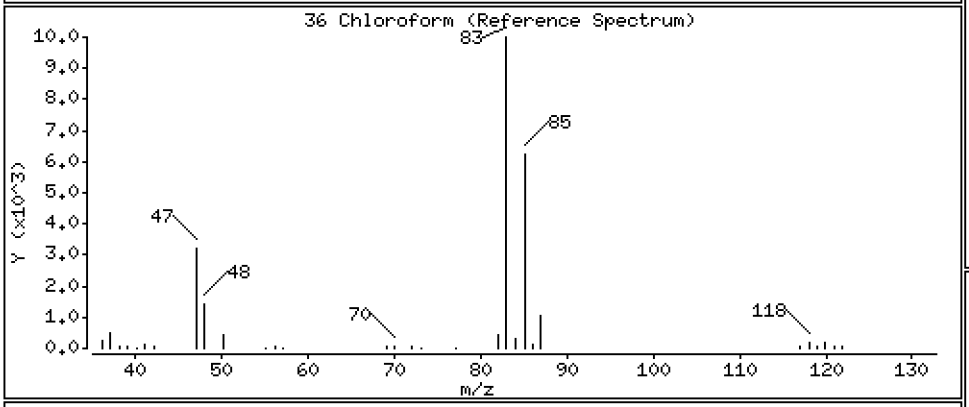
Purge Volume: 5.0 Operator: DD

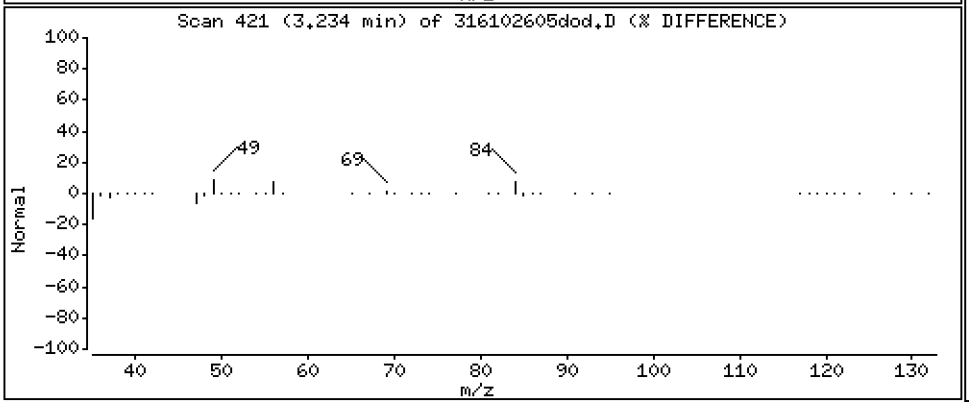
Column phase: DB-VRX Column diameter: 0.25

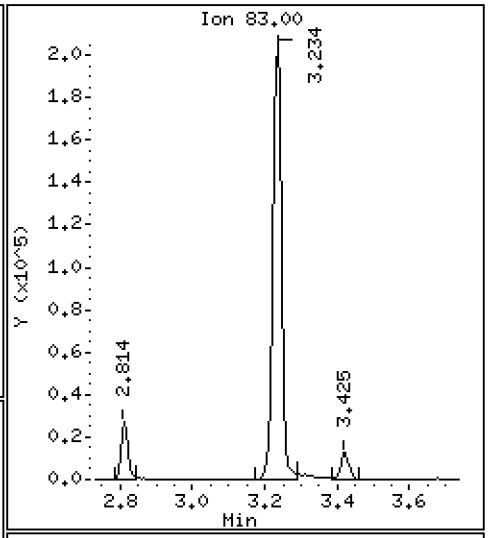
36 Chloroform Concentration: 20.6429 ug/L

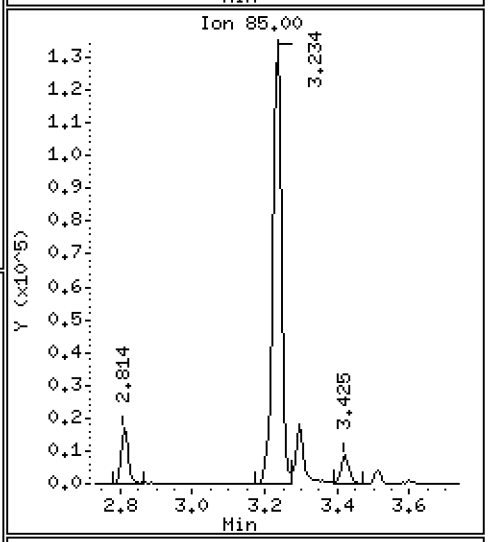


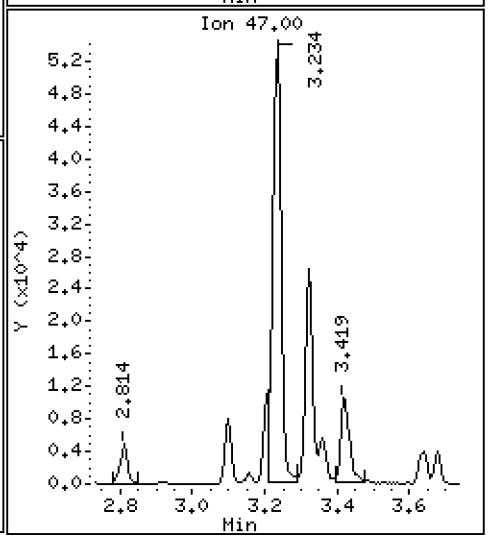












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 49

Date : 26-OCT-2016 10:55

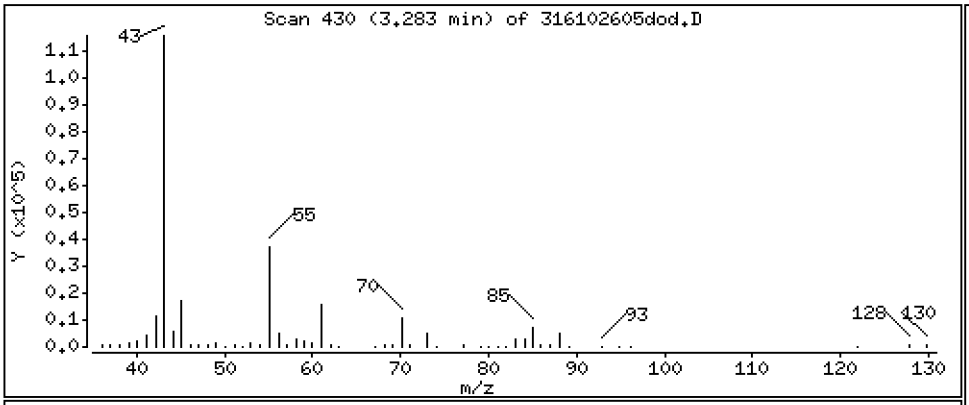
Client ID: LCS for HBN 174350 Instrument: ms03.i

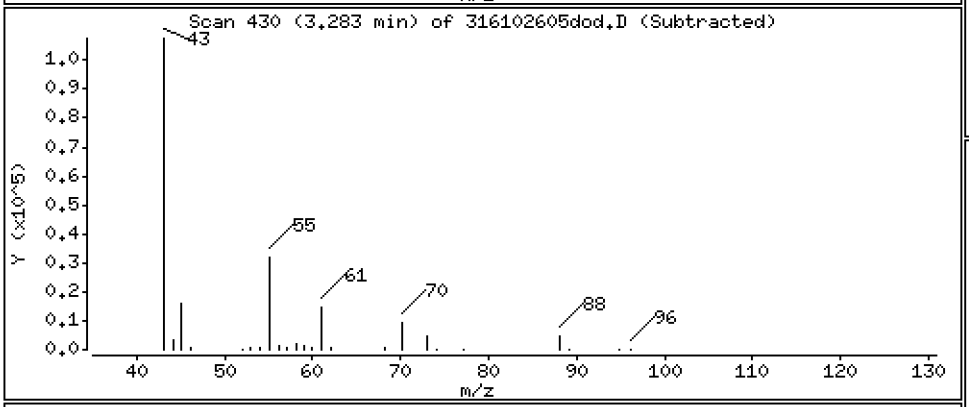
Sample Info: 2429648;;1;3;;LCS;1;

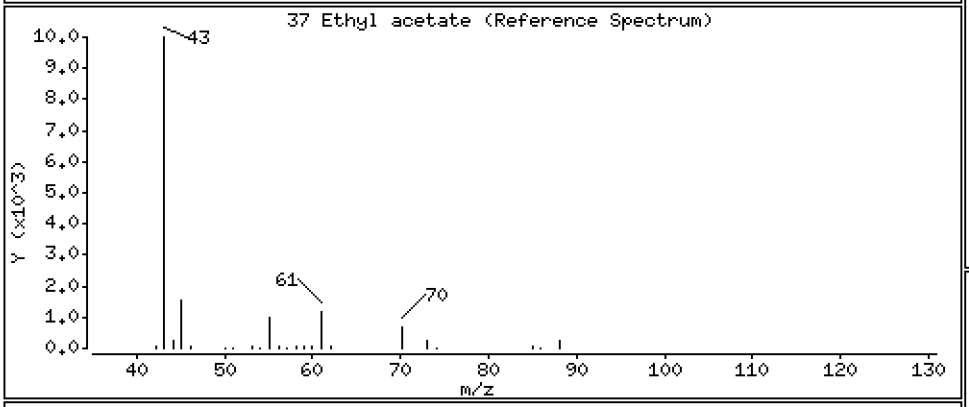
Purge Volume: 5.0 Operator: DD

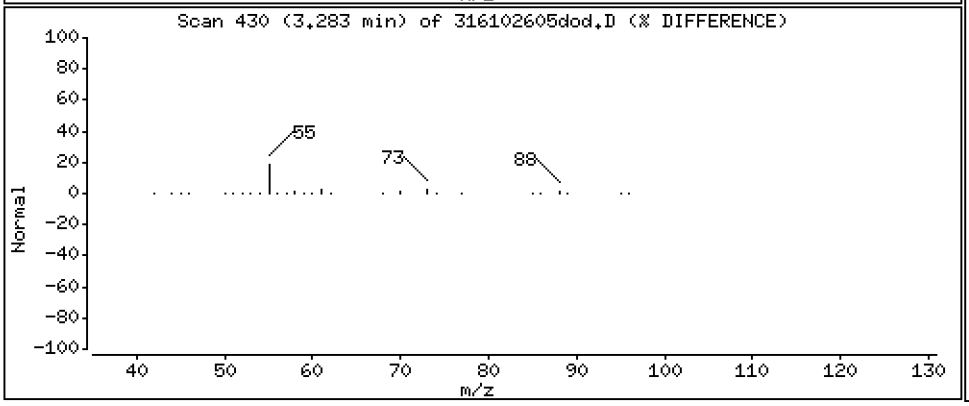
Column phase: DB-VRX Column diameter: 0.25

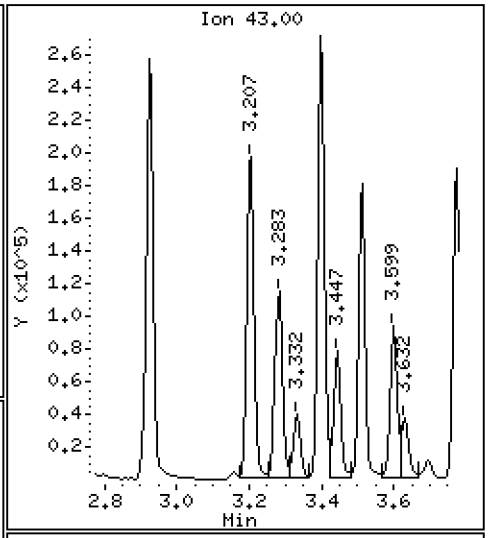
37 Ethyl acetate Concentration: 22.5591 ug/L

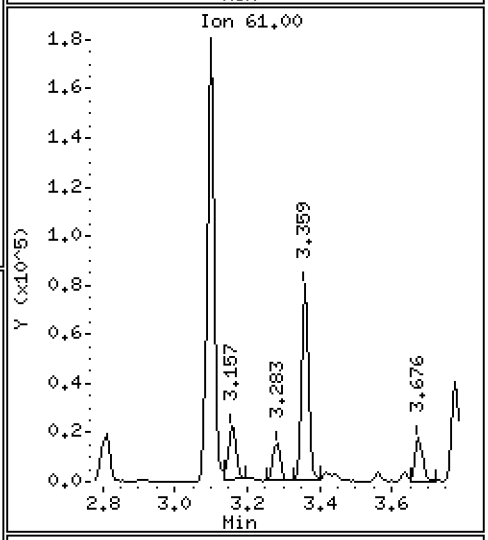


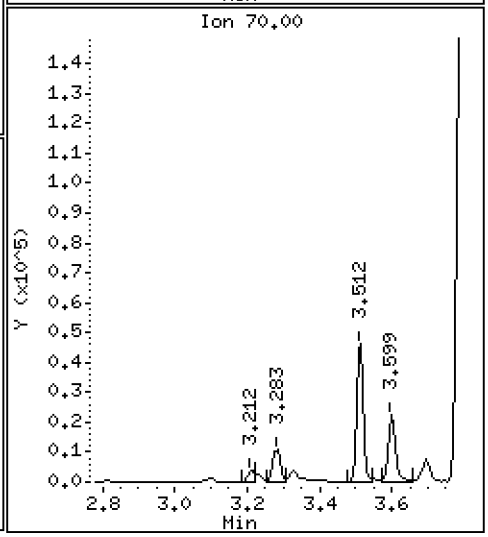












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 50

Date : 26-OCT-2016 10:55

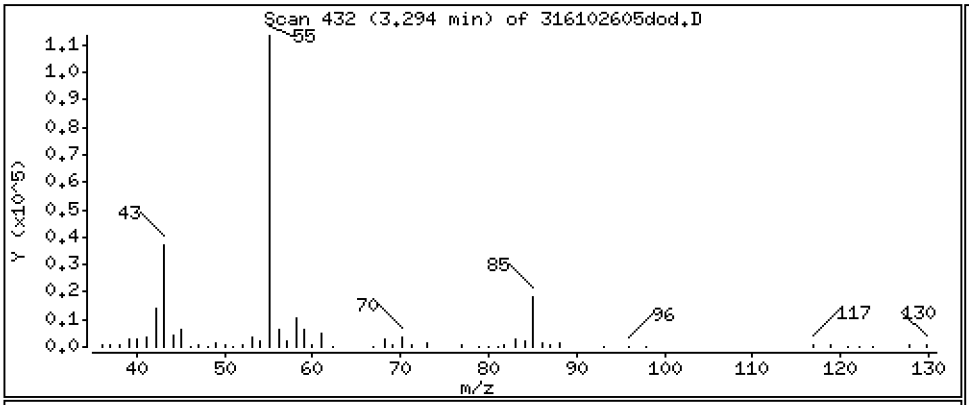
Client ID: LCS for HBN 174350 Instrument: ms03.i

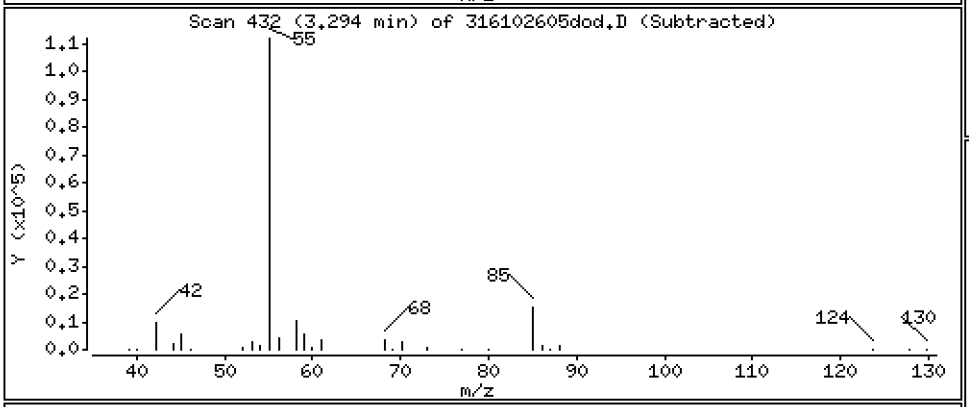
Sample Info: 2429648;;1;3;;LCS;1;

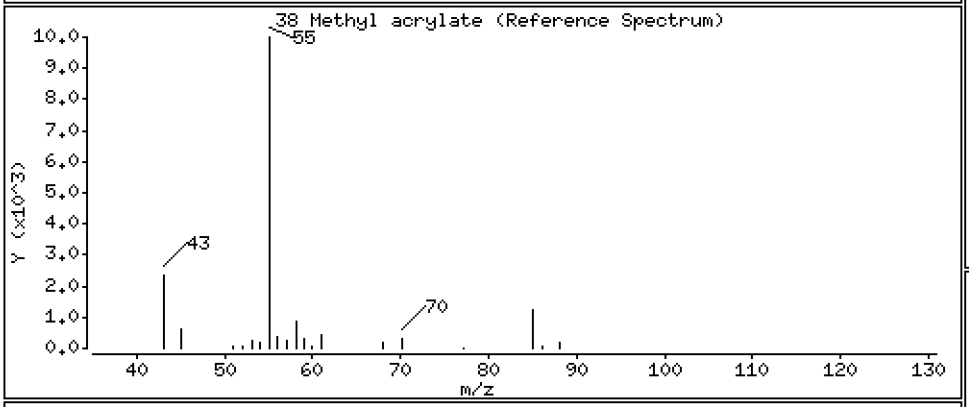
Purge Volume: 5.0 Operator: DD

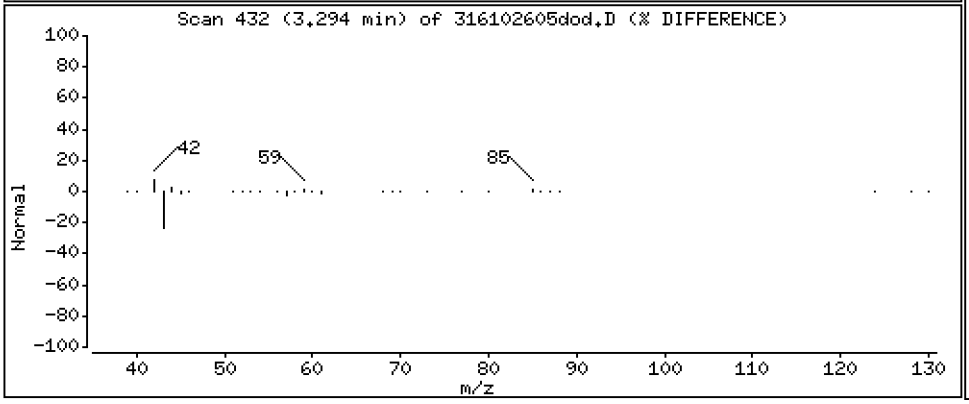
Column phase: DB-VRX Column diameter: 0.25

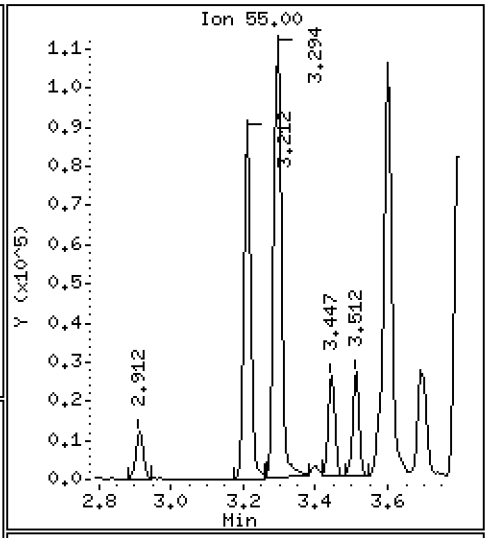
38 Methyl acrylate Concentration: 21.8401 ug/L

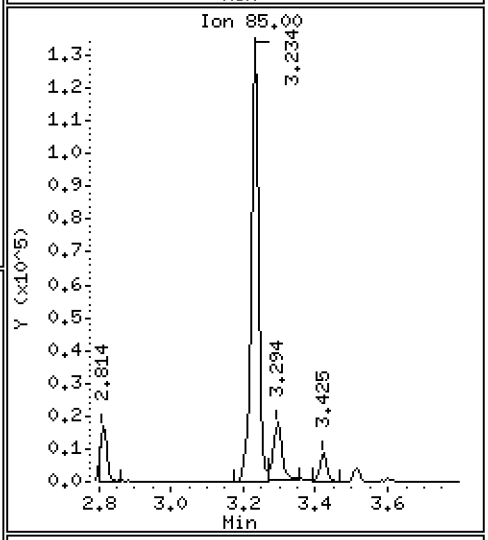


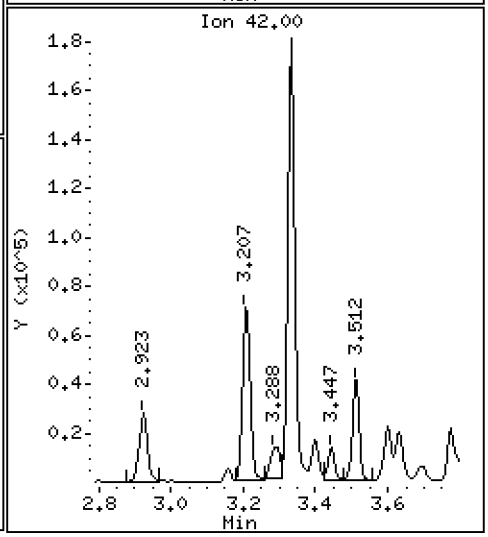












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 51

Date : 26-OCT-2016 10:55

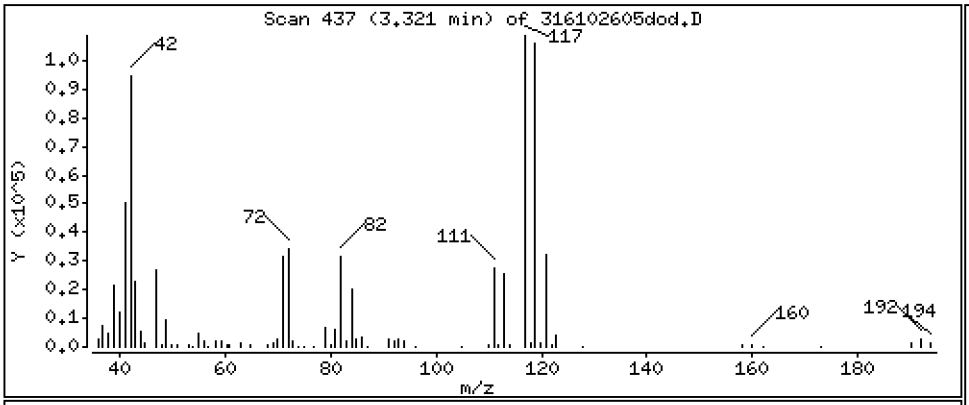
Client ID: LCS for HBN 174350 Instrument: ms03.i

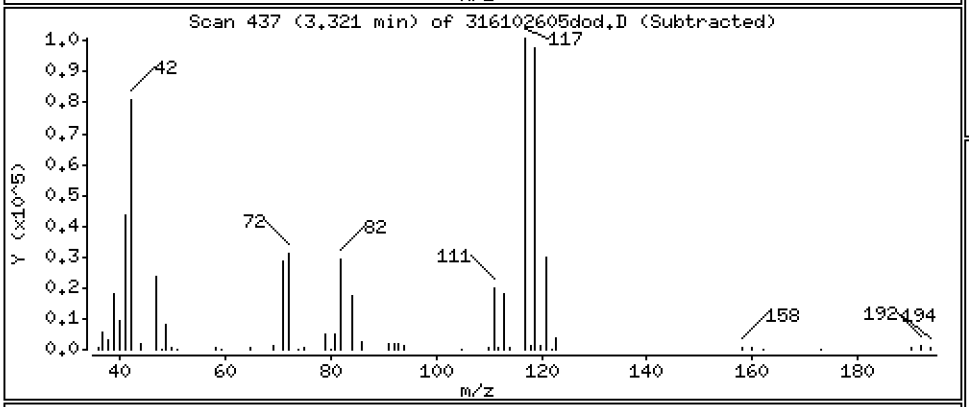
Sample Info: 2429648;;1;3;;LCS;1;

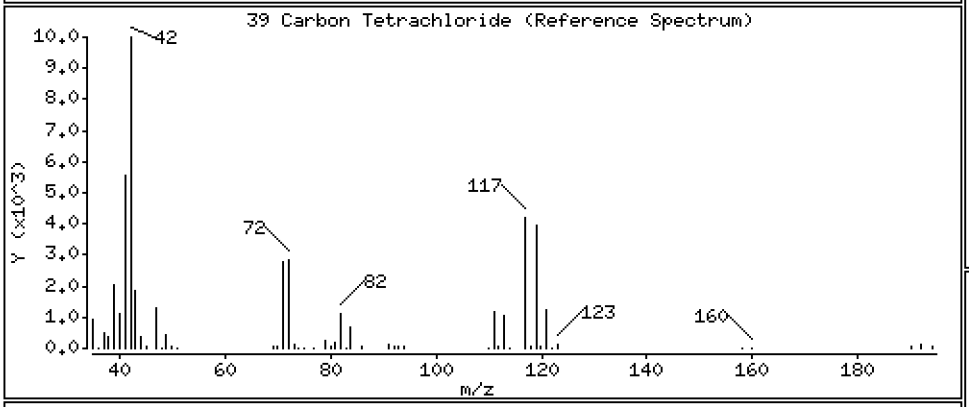
Purge Volume: 5.0 Operator: DD

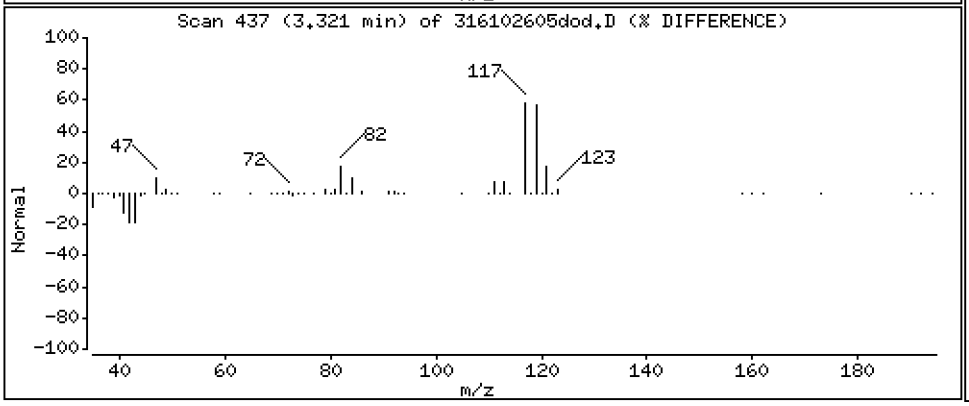
Column phase: DB-VRX Column diameter: 0.25

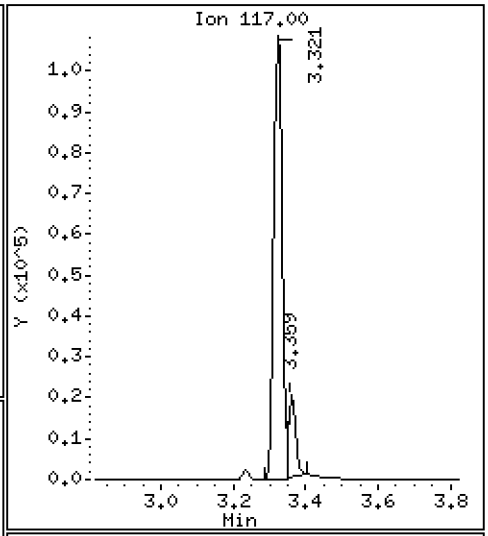
39 Carbon Tetrachloride Concentration: 19.1917 ug/L

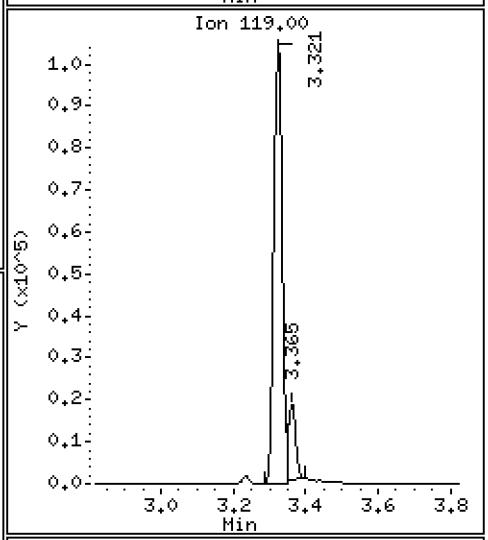


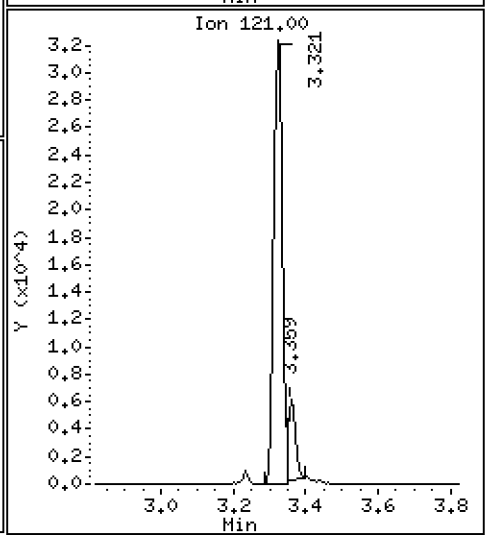












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 52

Date : 26-OCT-2016 10:55

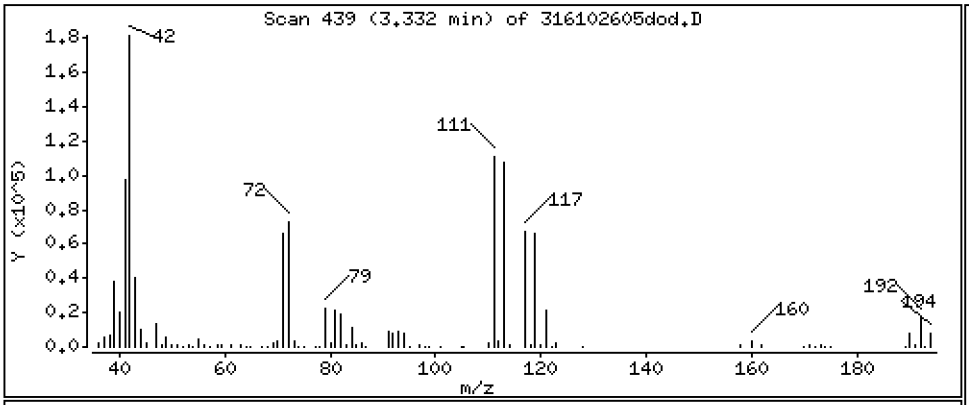
Client ID: LCS for HBN 174350 Instrument: ms03.i

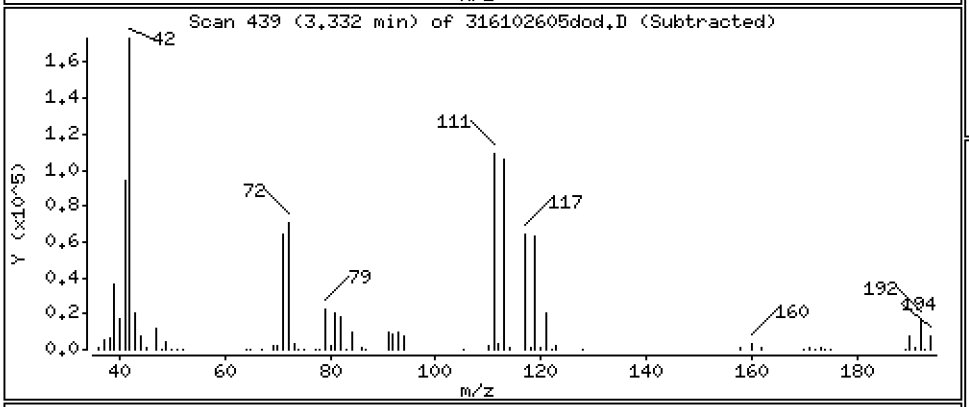
Sample Info: 2429648;;1;3;;LCS;1;

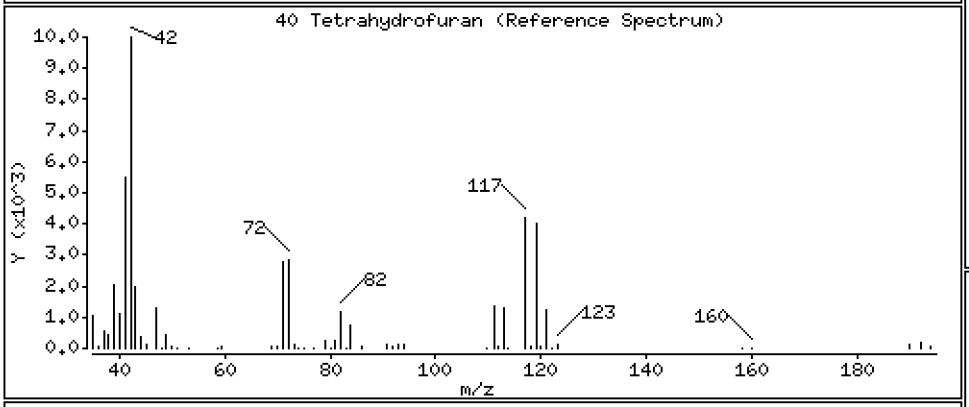
Purge Volume: 5.0 Operator: DD

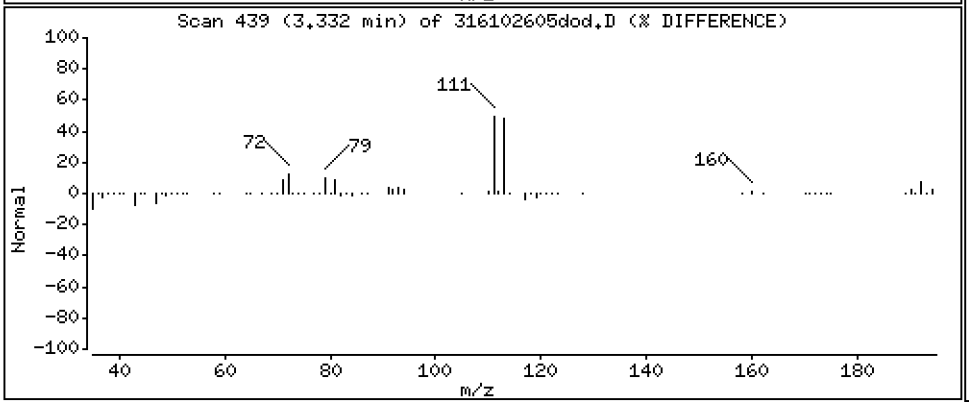
Column phase: DB-VRX Column diameter: 0.25

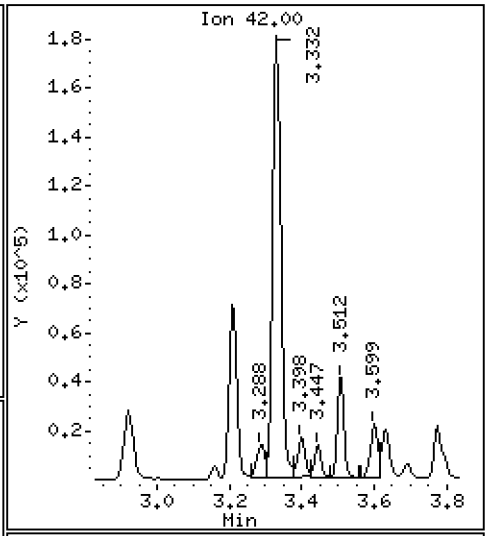
40 Tetrahydrofuran Concentration: 115.972 ug/L

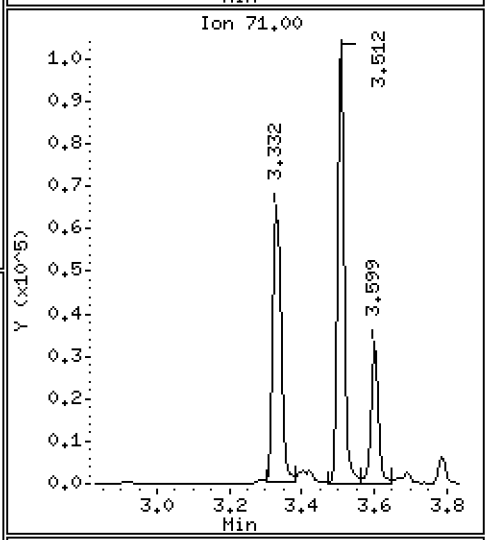


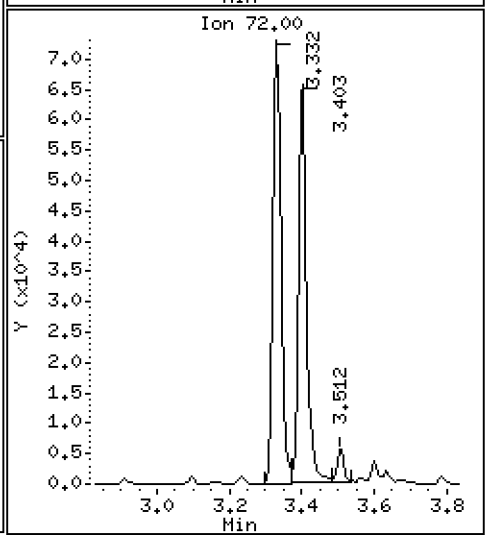












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 53

Date : 26-OCT-2016 10:55

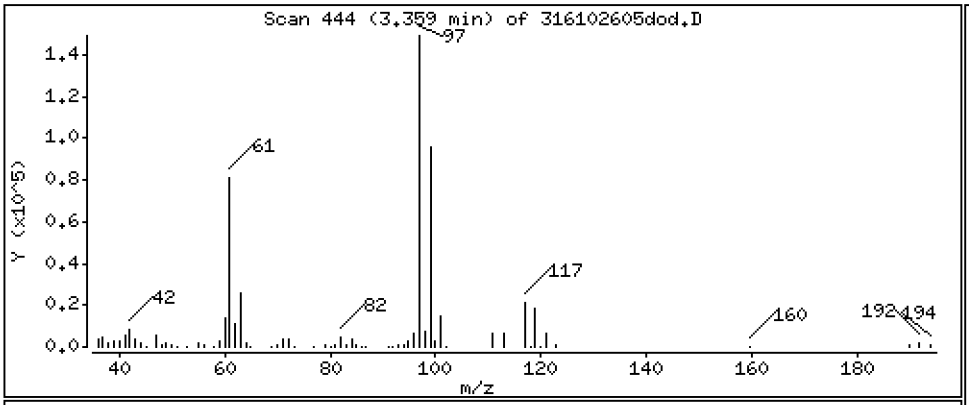
Client ID: LCS for HBN 174350 Instrument: ms03.i

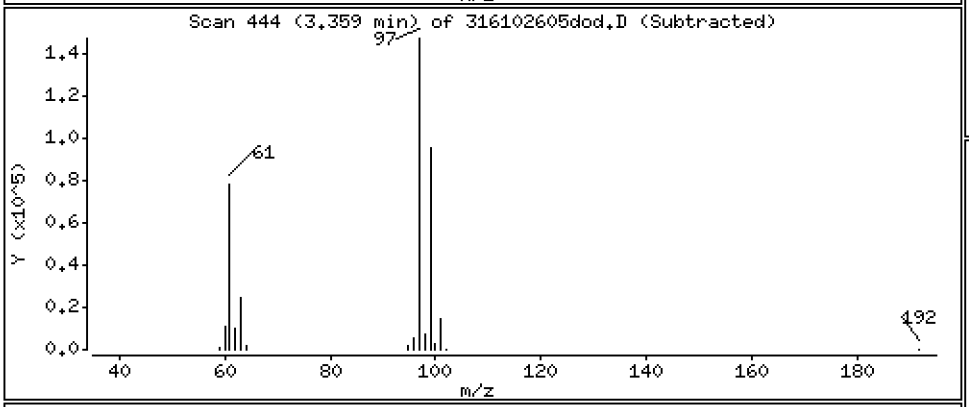
Sample Info: 2429648;;1;3;;LCS;1;

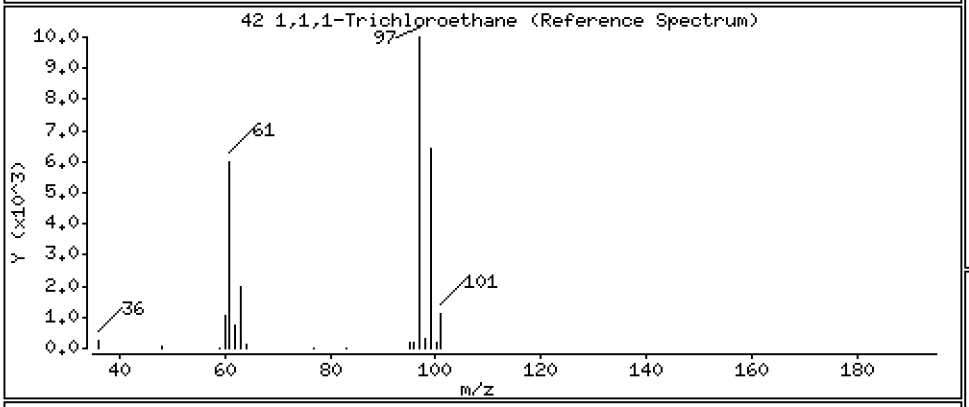
Purge Volume: 5.0 Operator: DD

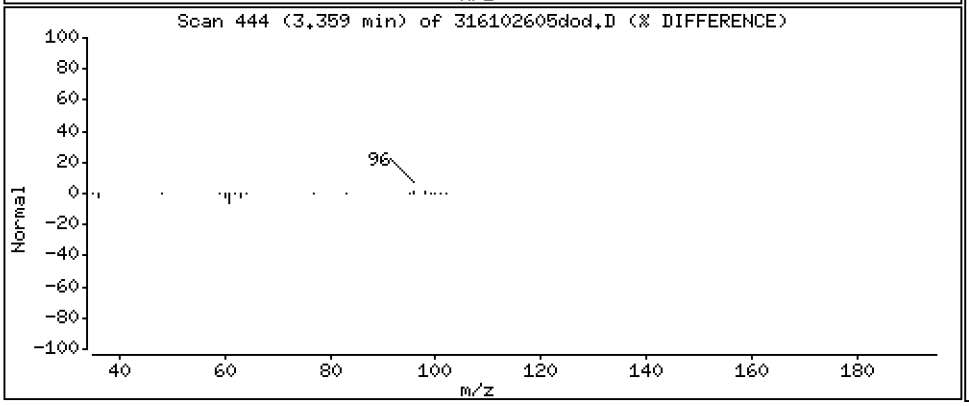
Column phase: DB-VRX Column diameter: 0.25

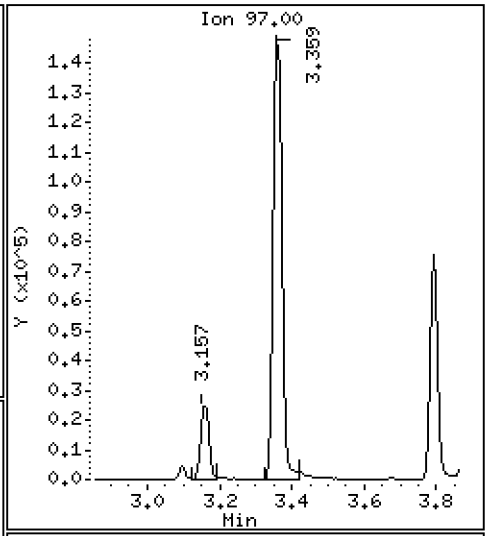
42 1,1,1-Trichloroethane Concentration: 20.2600 ug/L

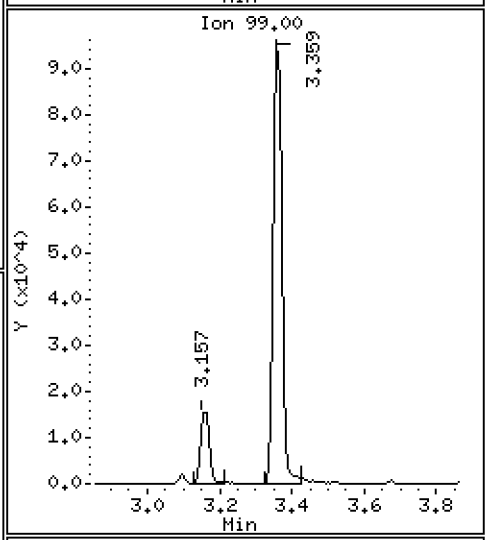


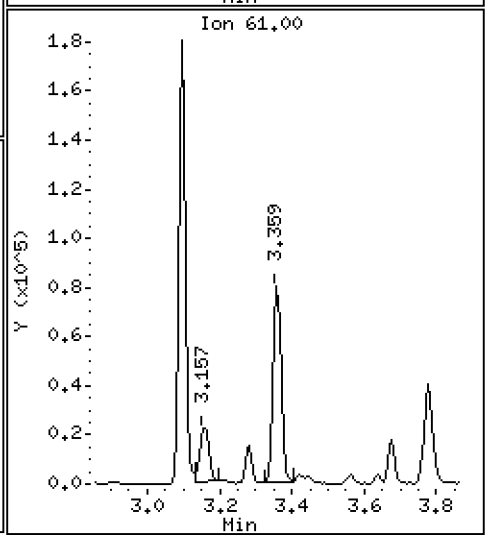












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 54

Date : 26-OCT-2016 10:55

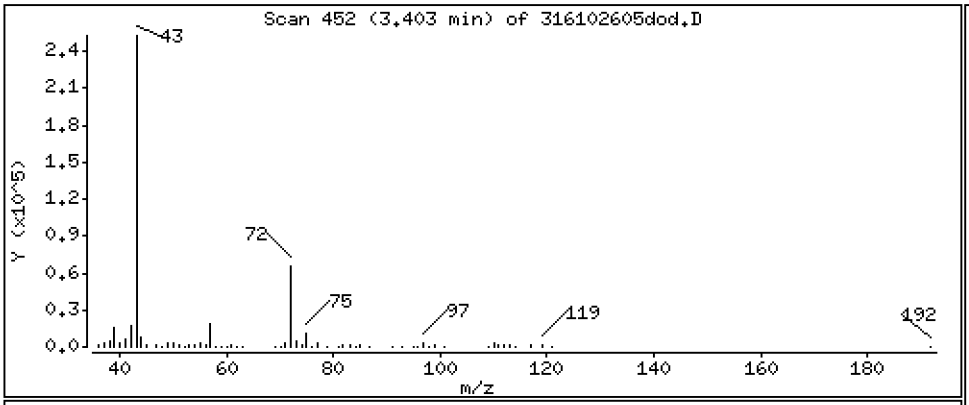
Client ID: LCS for HBN 174350 Instrument: ms03.i

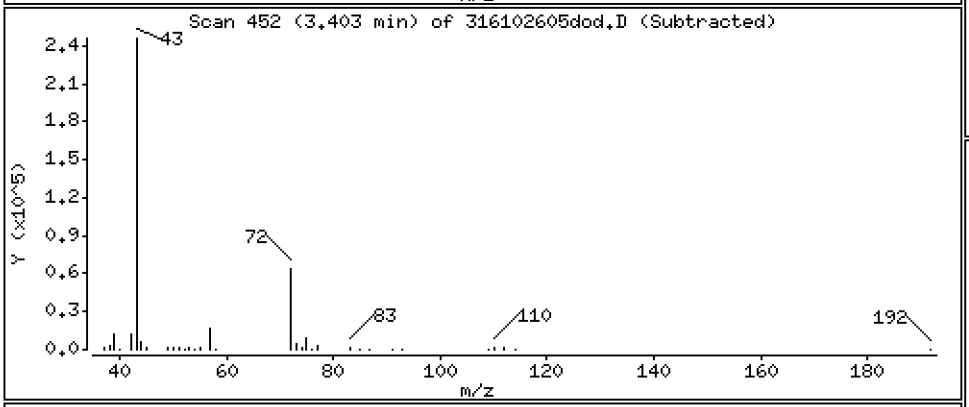
Sample Info: 2429648;;1;3;;LCS;1;

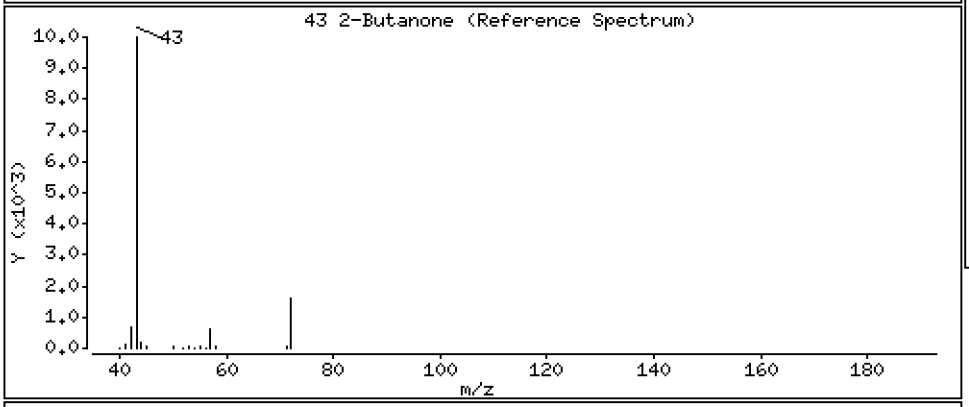
Purge Volume: 5.0 Operator: DD

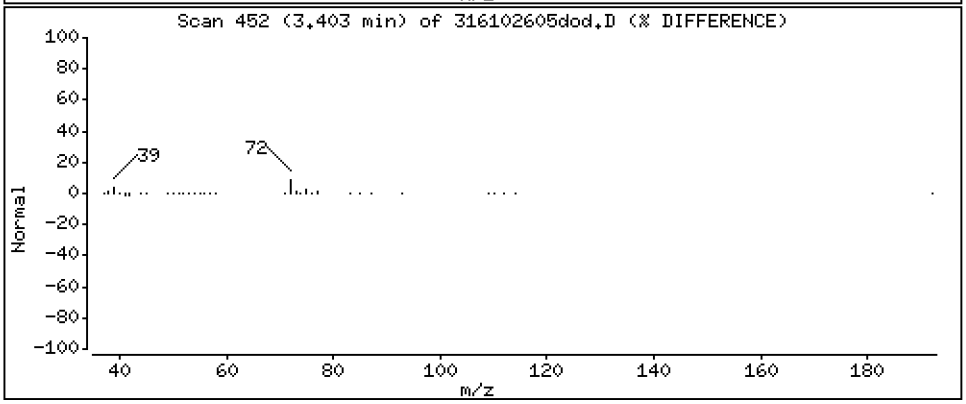
Column phase: DB-VRX Column diameter: 0.25

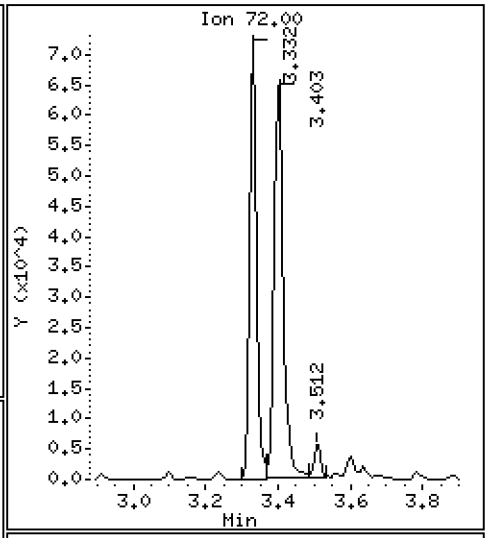
43 2-Butanone Concentration: 112.559 ug/L

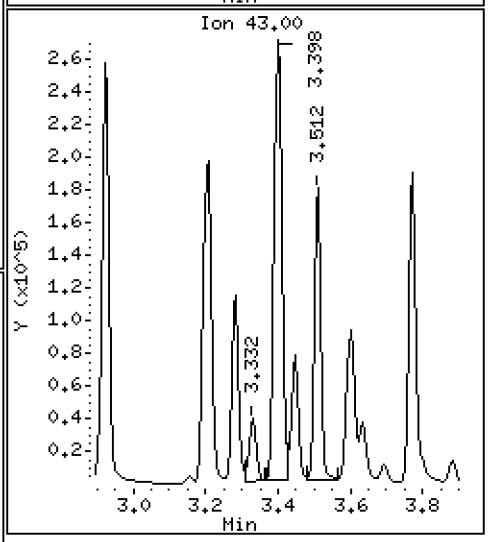












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 55

Date : 26-OCT-2016 10:55

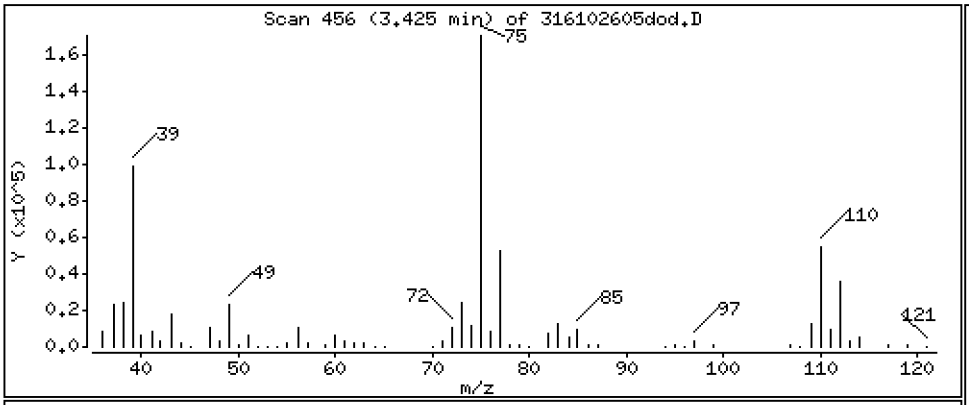
Client ID: LCS for HBN 174350 Instrument: ms03.i

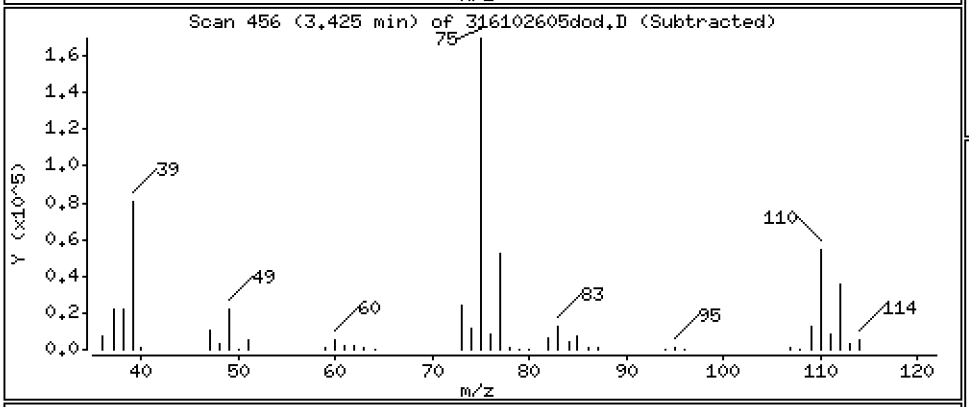
Sample Info: 2429648;;1;3;;LCS;1;

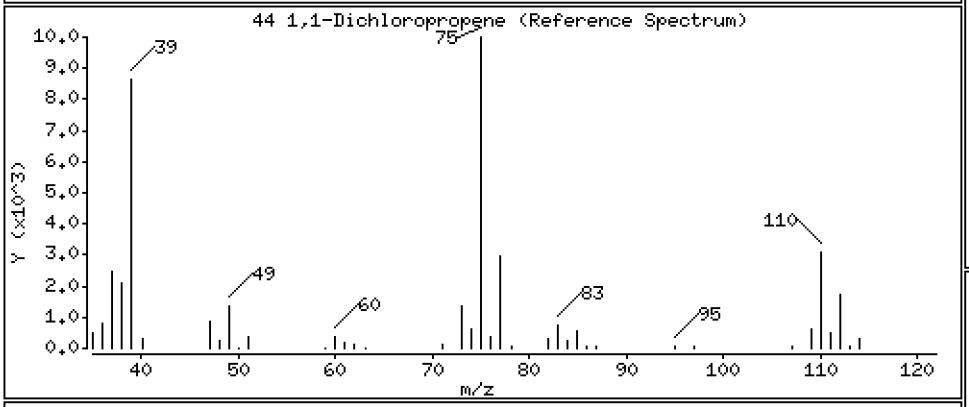
Purge Volume: 5.0 Operator: DD

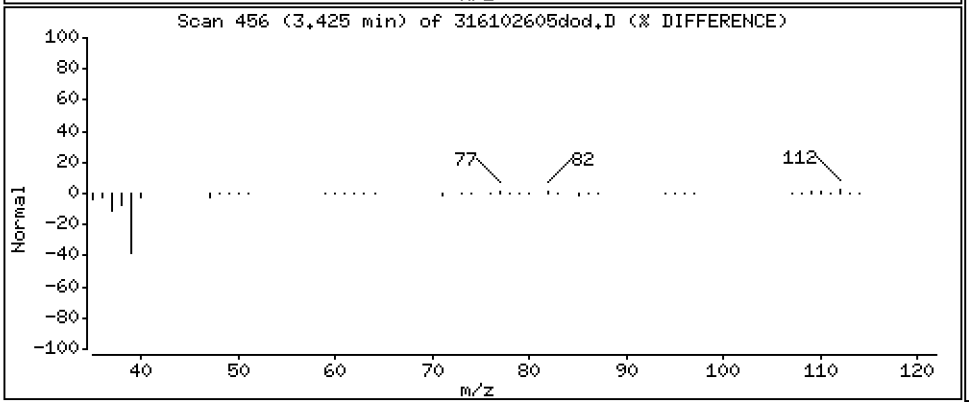
Column phase: DB-VRX Column diameter: 0.25

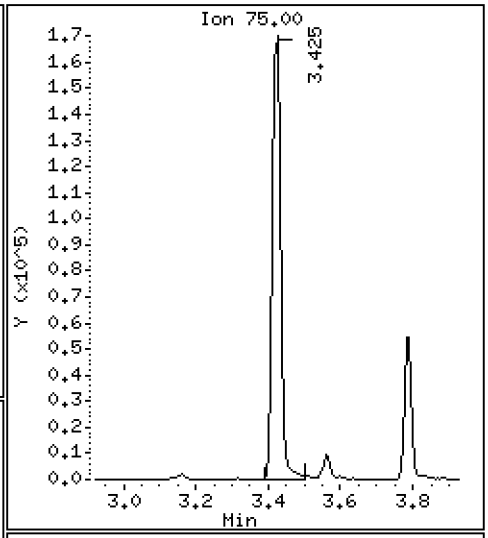
44 1,1-Dichloropropene Concentration: 20.8234 ug/L

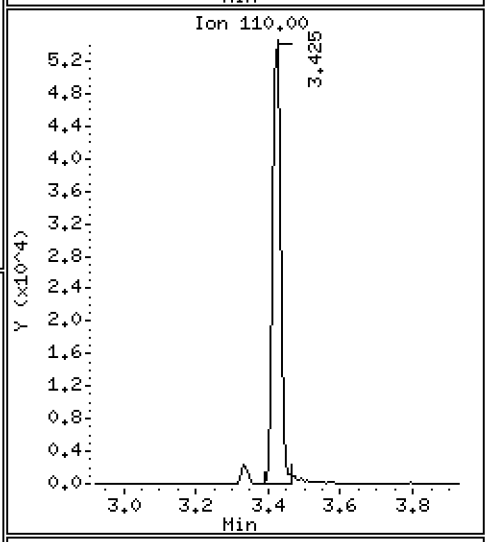


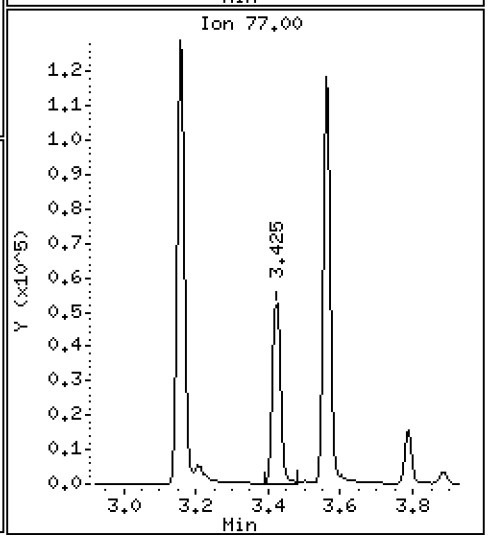












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 56

Date : 26-OCT-2016 10:55

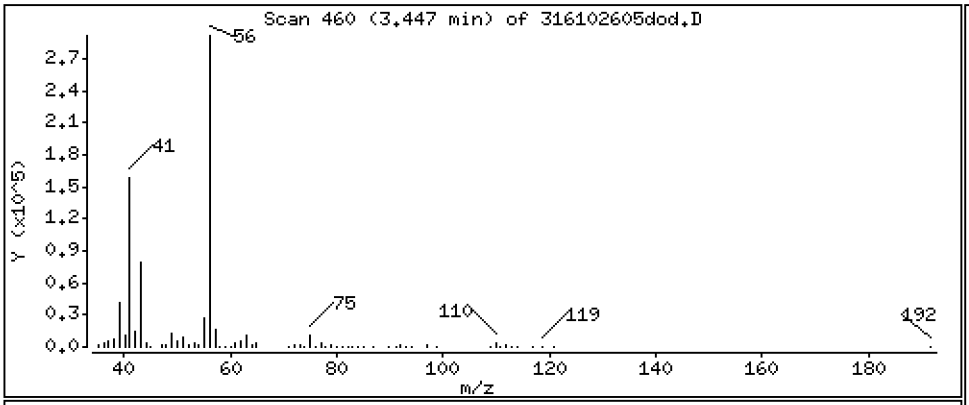
Client ID: LCS for HBN 174350 Instrument: ms03.i

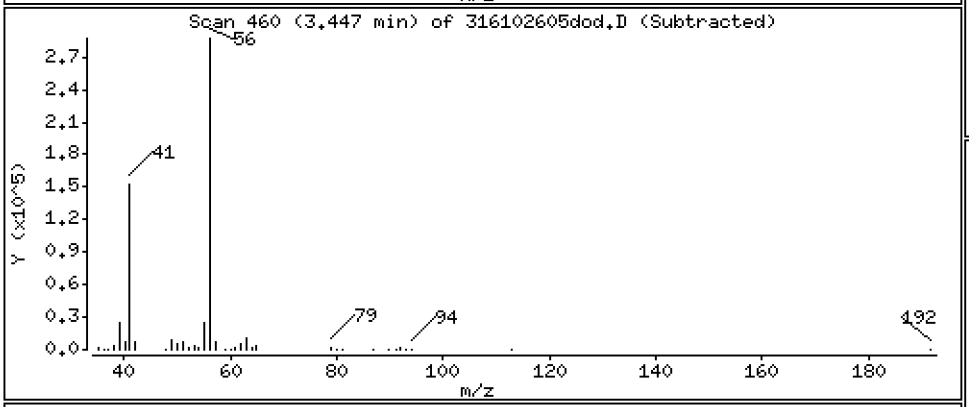
Sample Info: 2429648;;1;3;;LCS;1;

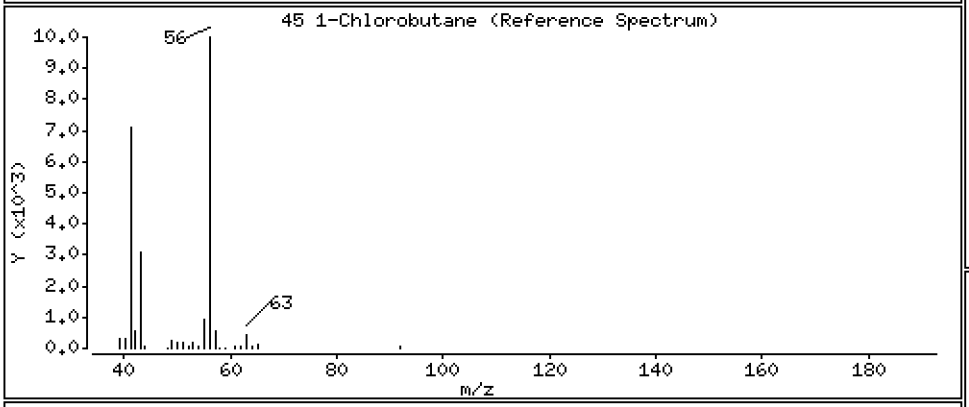
Purge Volume: 5.0 Operator: DD

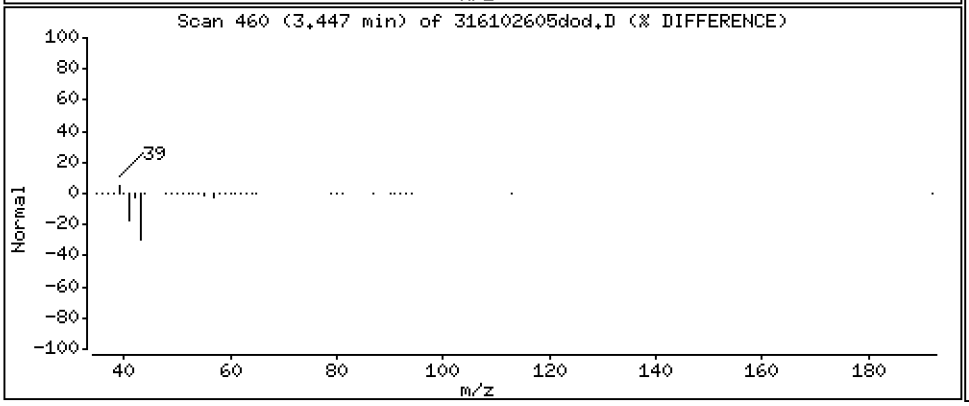
Column phase: DB-VRX Column diameter: 0.25

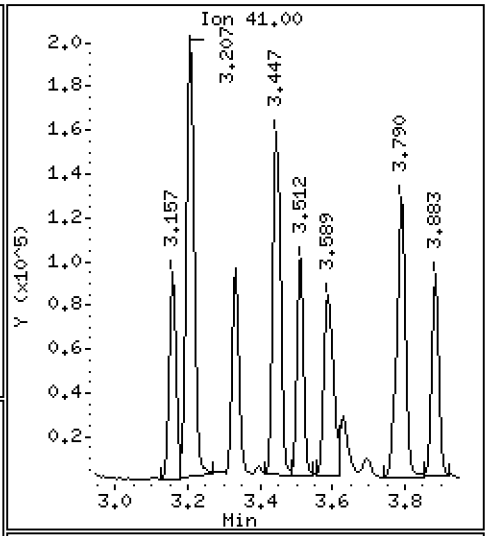
45 1-Chlorobutane Concentration: 24.4371 ug/L

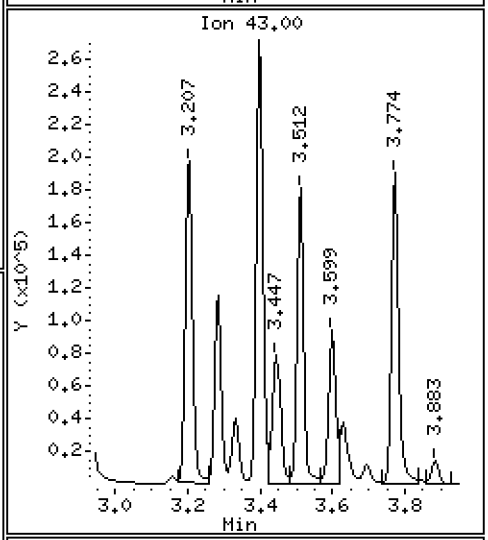


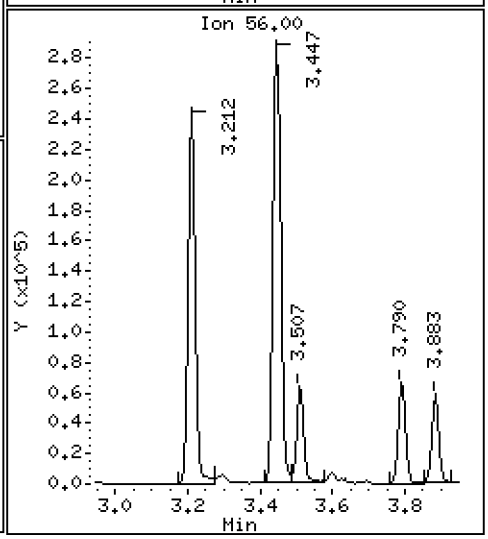












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 57

Date : 26-OCT-2016 10:55

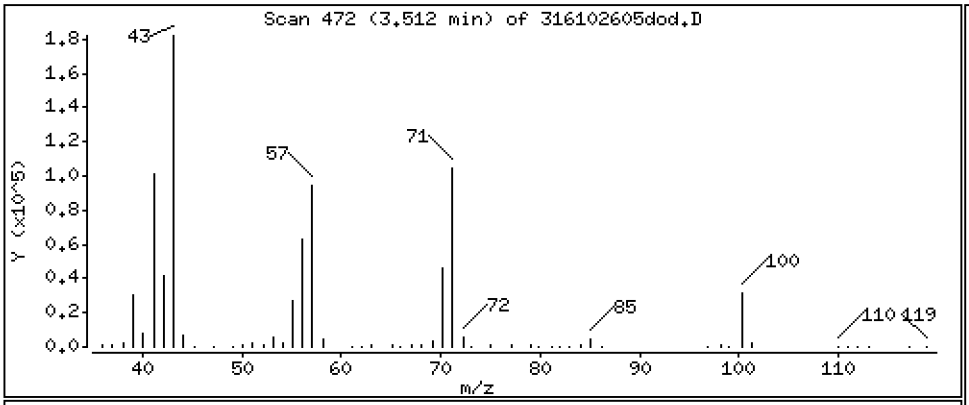
Client ID: LCS for HBN 174350 Instrument: ms03.i

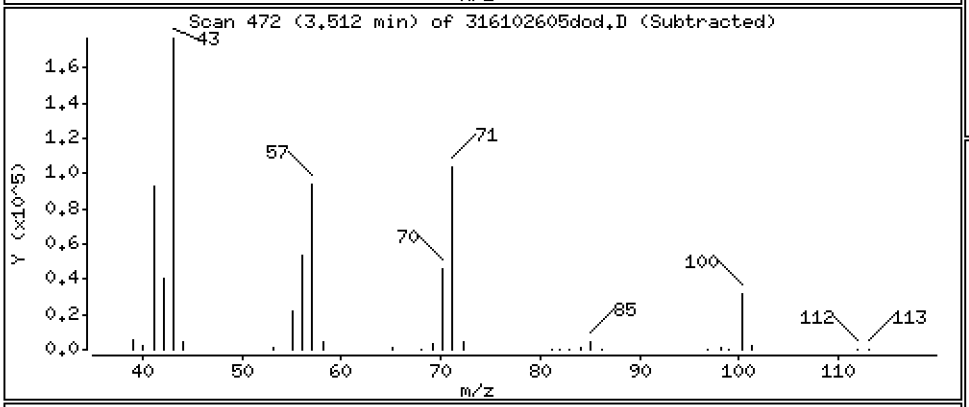
Sample Info: 2429648;;1;3;;LCS;1;

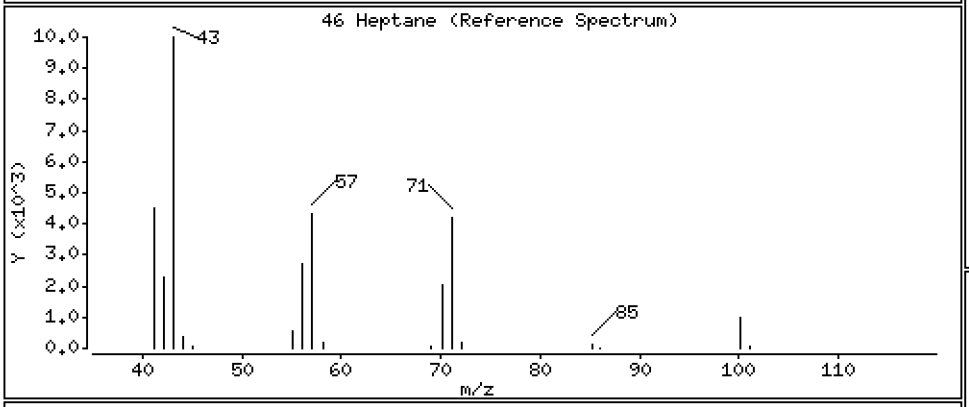
Purge Volume: 5.0 Operator: DD

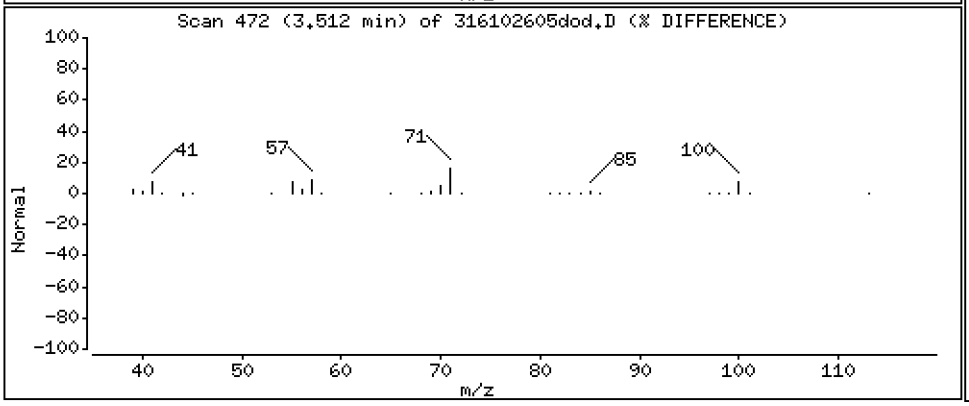
Column phase: DB-VRX Column diameter: 0.25

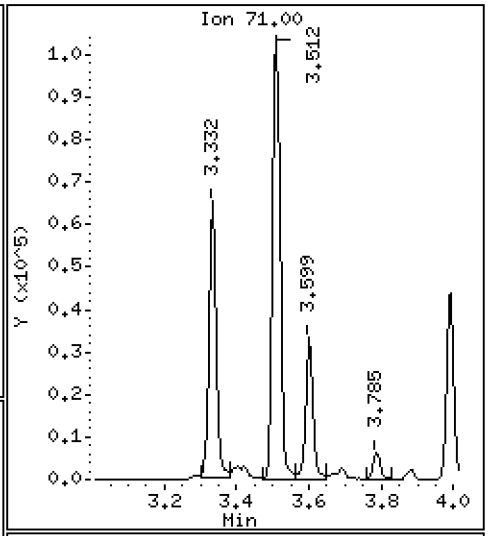
46 Heptane Concentration: 25.7417 ug/L

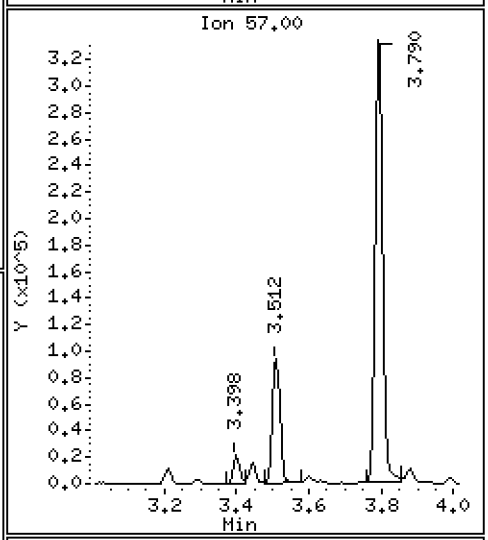


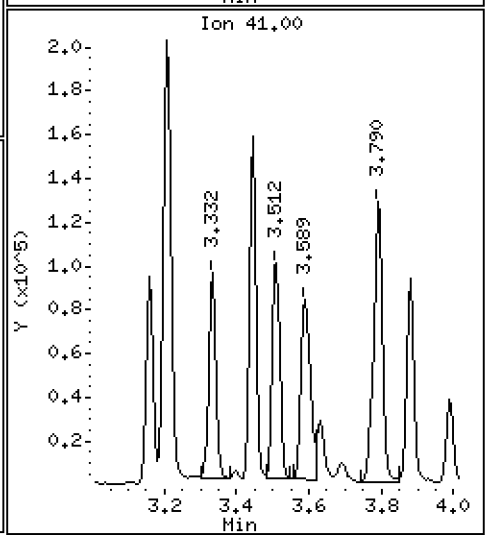












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 58

Date : 26-OCT-2016 10:55

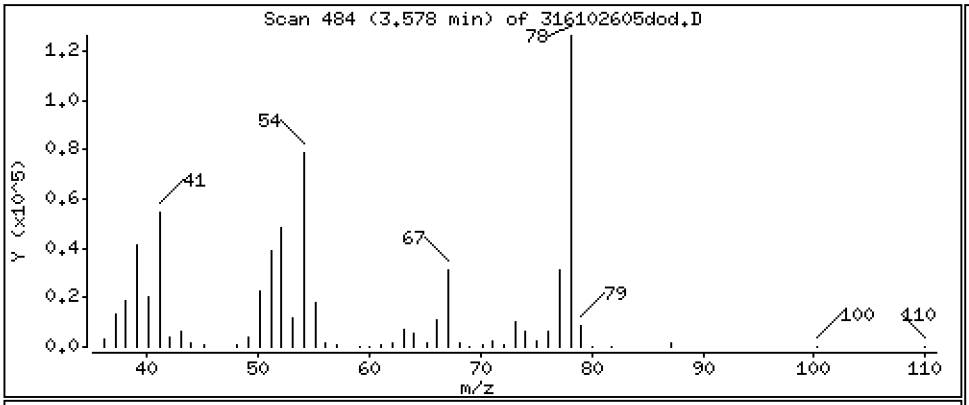
Client ID: LCS for HBN 174350 Instrument: ms03.i

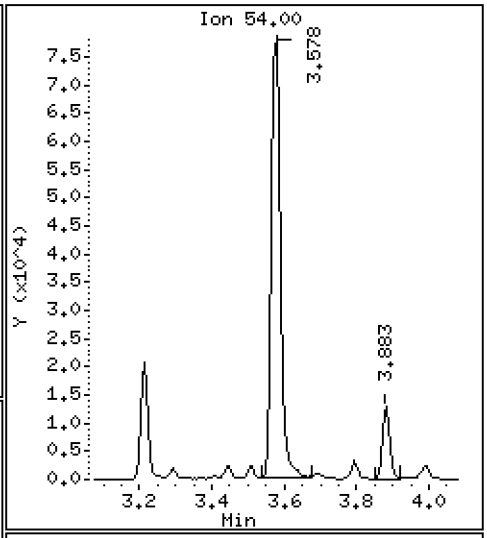
Sample Info: 2429648;;1;3;;LCS;1;

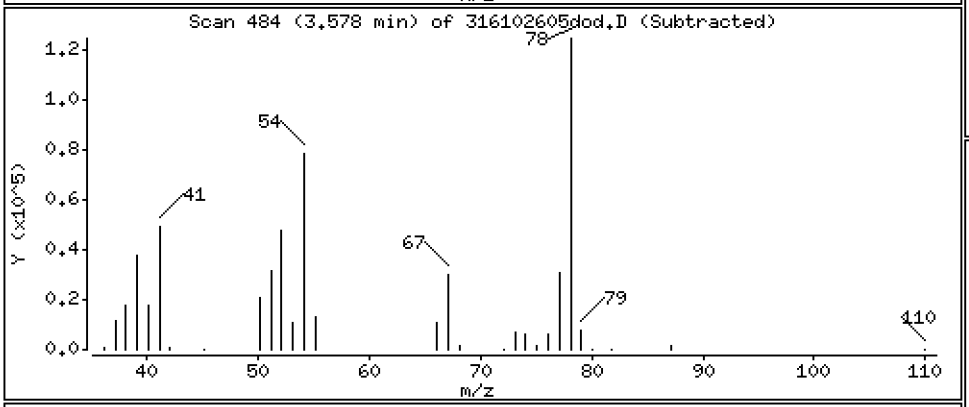
Purge Volume: 5.0 Operator: DD

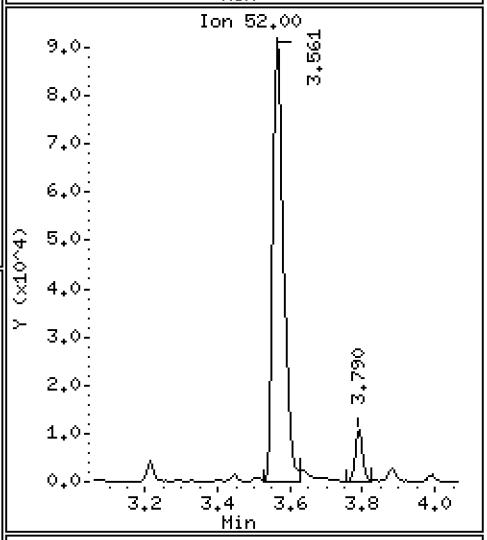
Column phase: DB-VRX Column diameter: 0.25

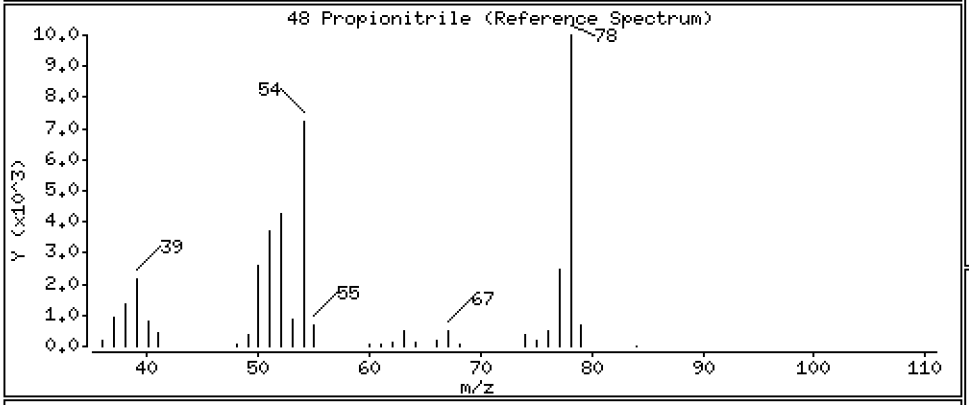
48 Propionitrile Concentration: 116.479 ug/L

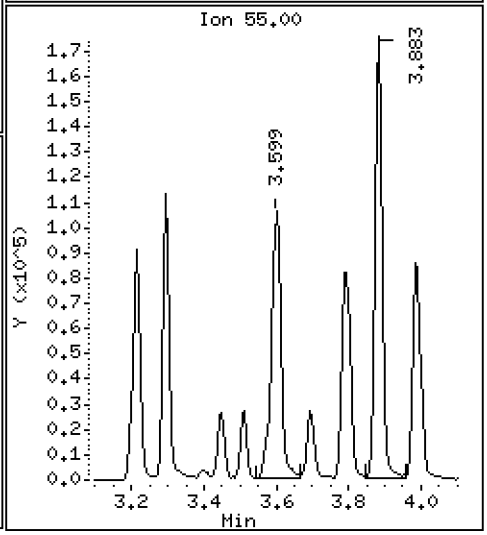


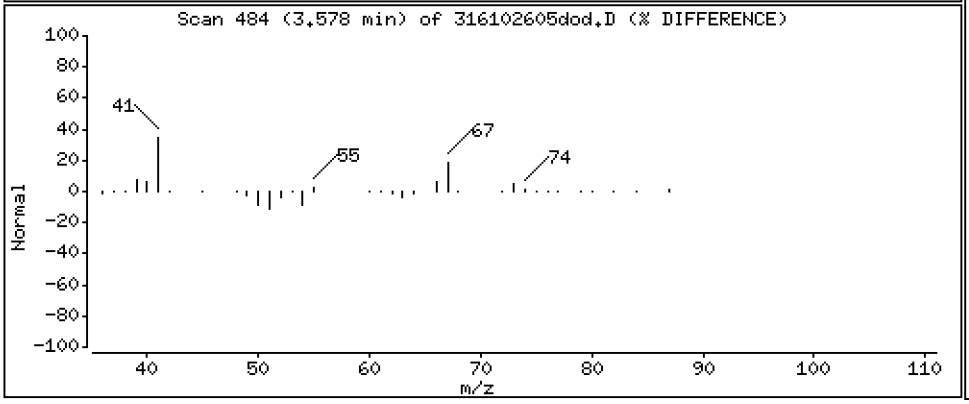












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 59

Date : 26-OCT-2016 10:55

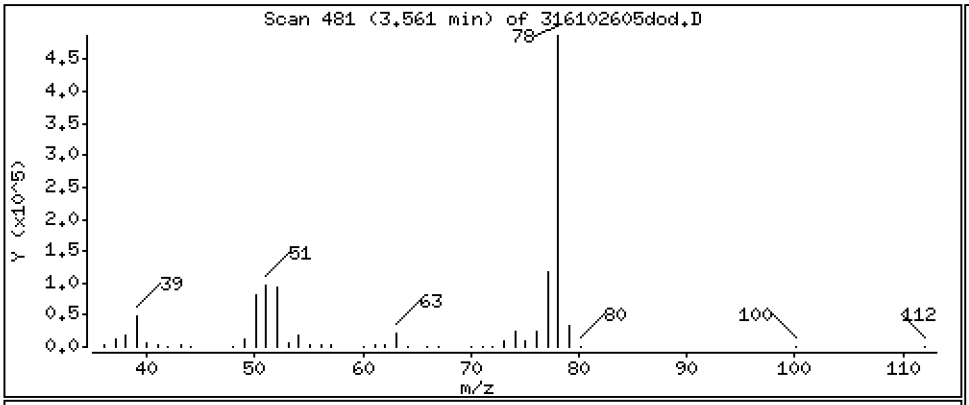
Client ID: LCS for HBN 174350 Instrument: ms03.i

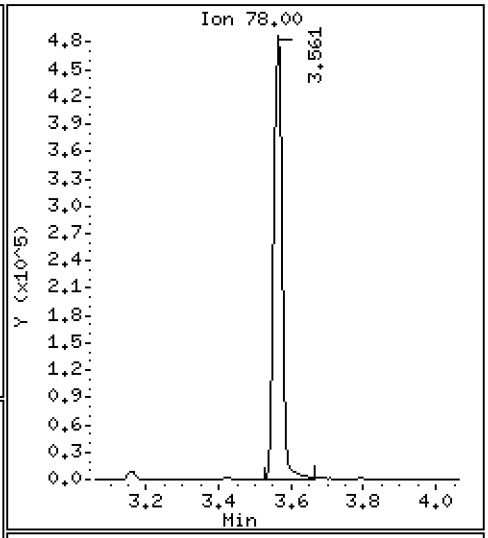
Sample Info: 2429648;;1;3;;LCS;1;

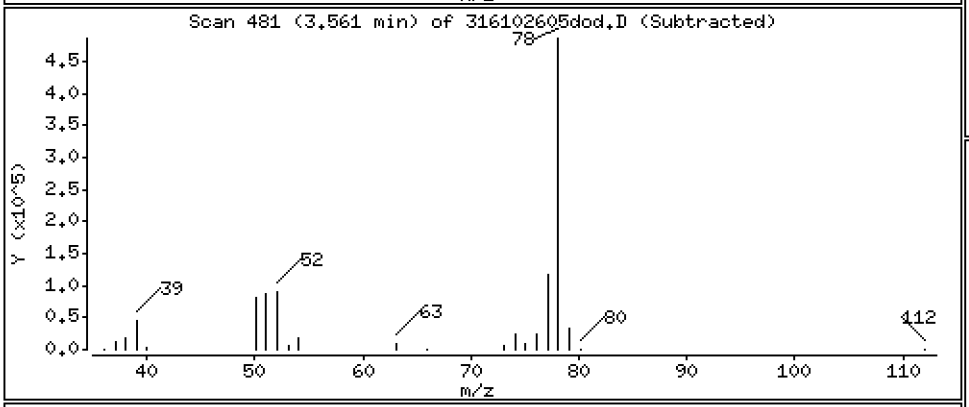
Purge Volume: 5.0 Operator: DD

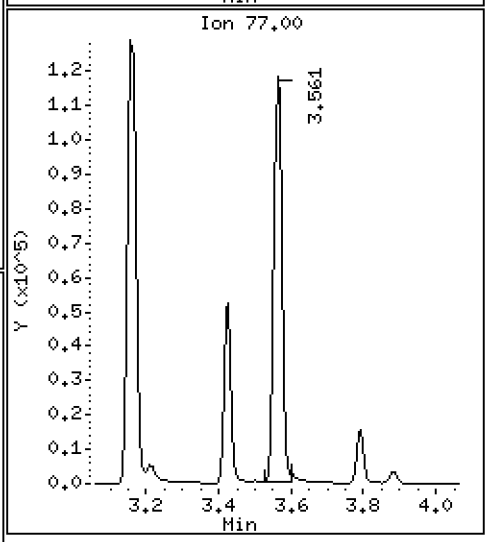
Column phase: DB-VRX Column diameter: 0.25

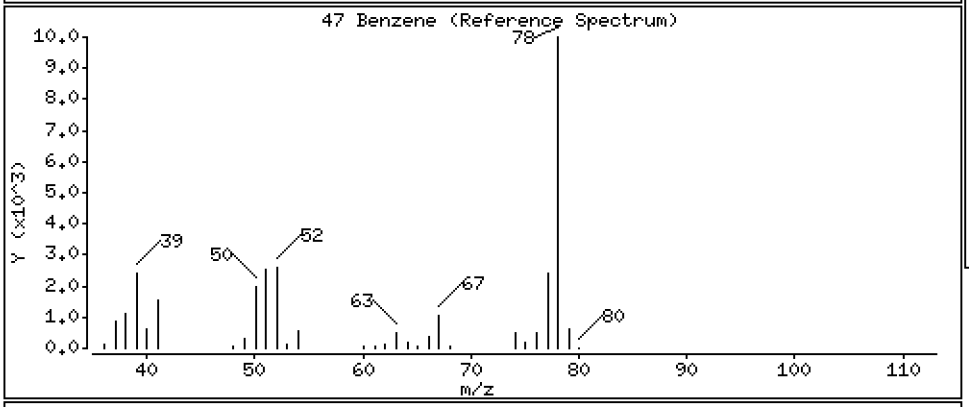
47 Benzene Concentration: 19.6181 ug/L

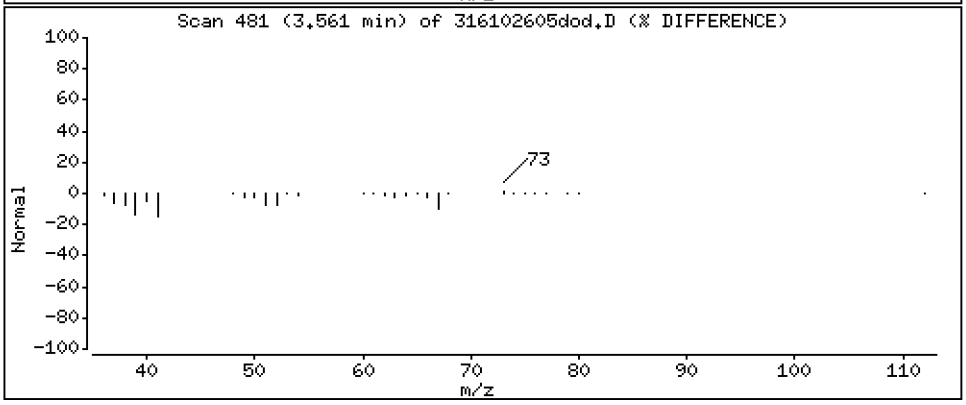












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 60

Date : 26-OCT-2016 10:55

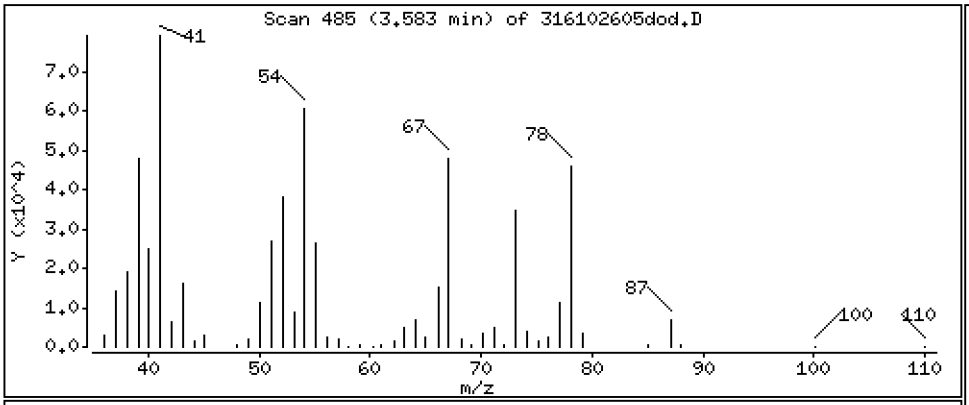
Client ID: LCS for HBN 174350 Instrument: ms03.i

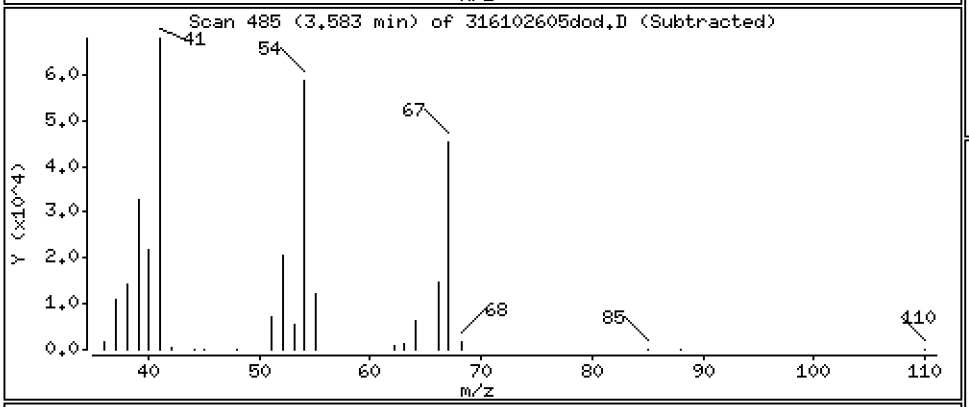
Sample Info: 2429648;;1;3;;LCS;1;

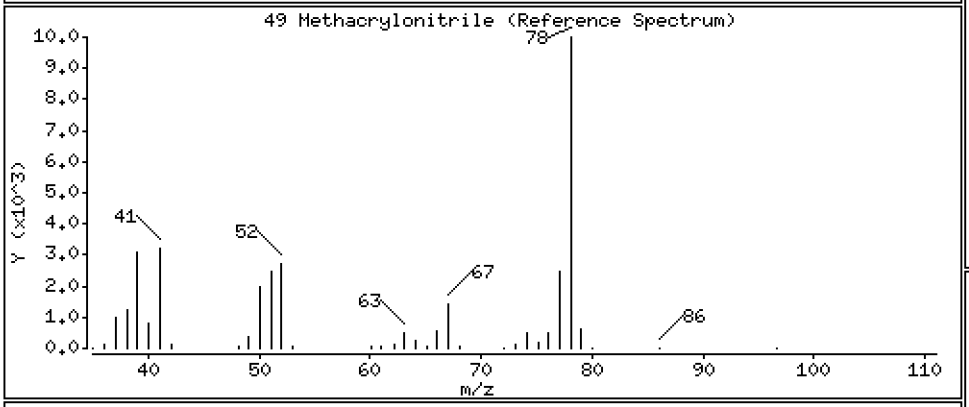
Purge Volume: 5.0 Operator: DD

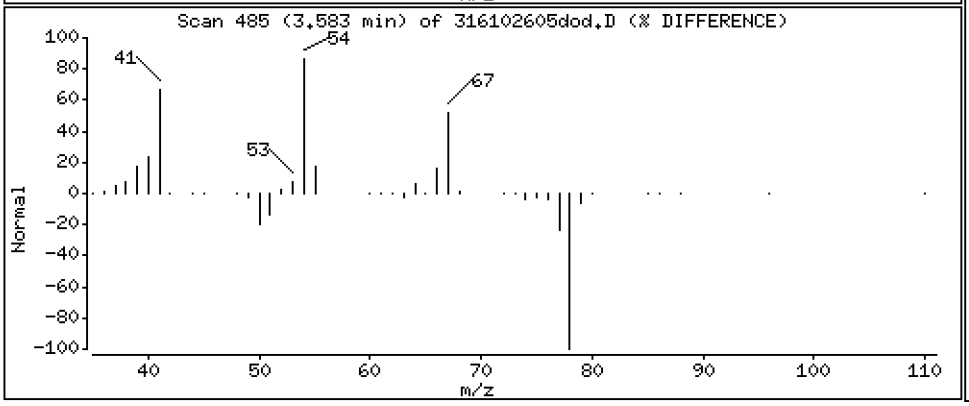
Column phase: DB-VRX Column diameter: 0.25

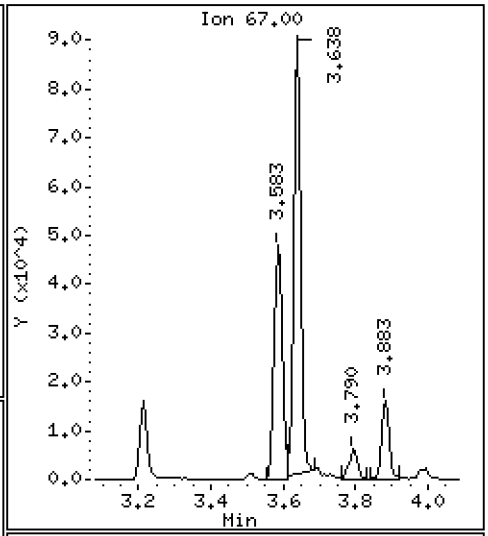
49 Methacrylonitrile Concentration: 21.1550 ug/L

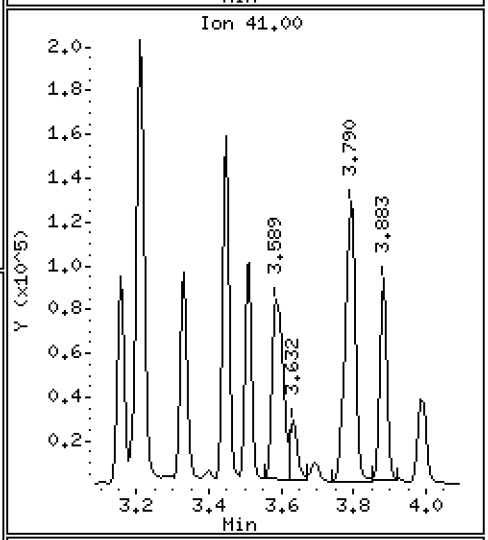


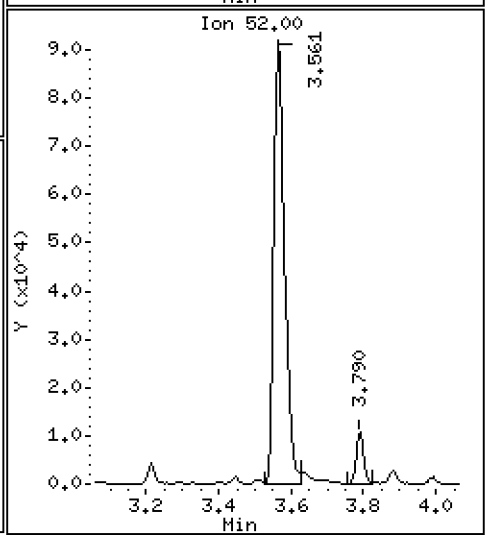












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 61

Date : 26-OCT-2016 10:55

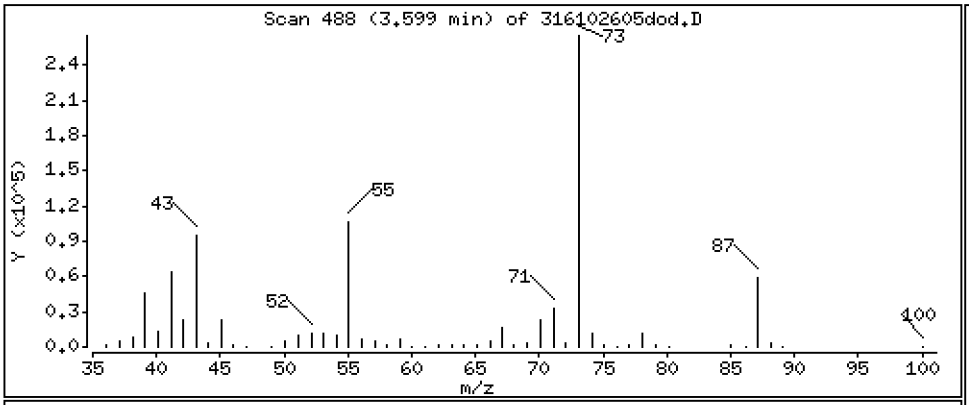
Client ID: LCS for HBN 174350 Instrument: ms03.i

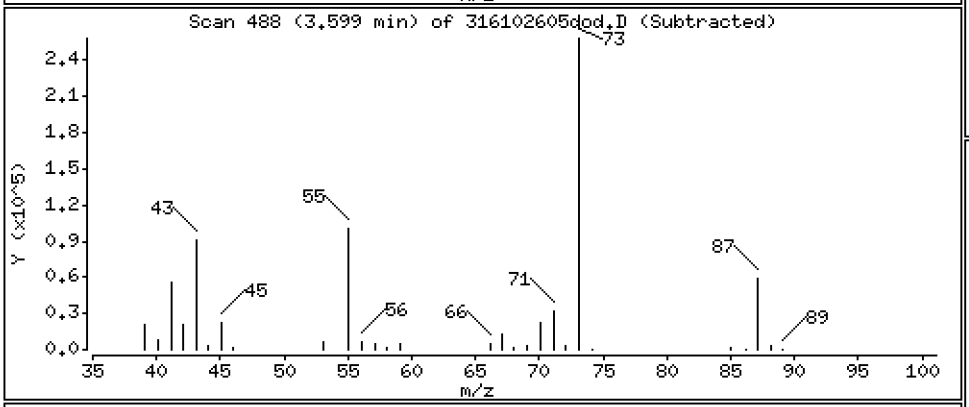
Sample Info: 2429648;;1;3;;LCS;1;

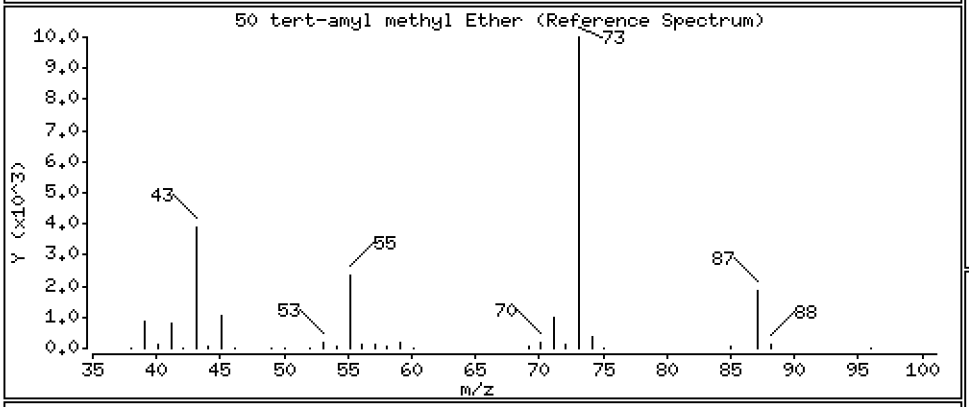
Purge Volume: 5.0 Operator: DD

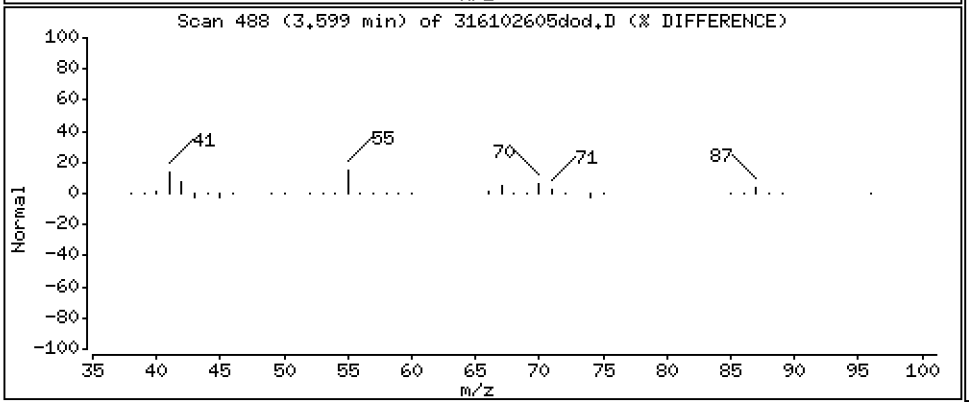
Column phase: DB-VRX Column diameter: 0.25

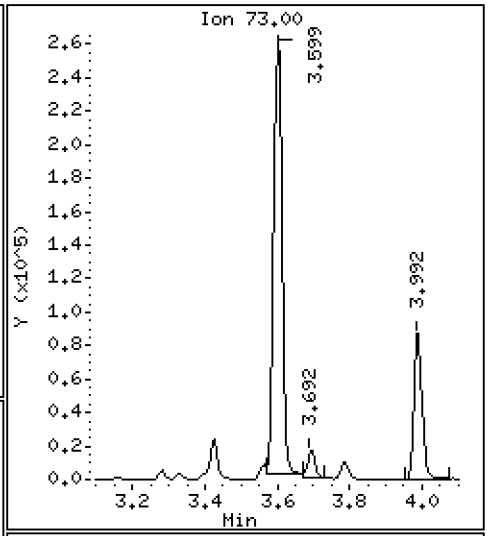
50 tert-amyl methyl Ether Concentration: 20.1925 ug/L

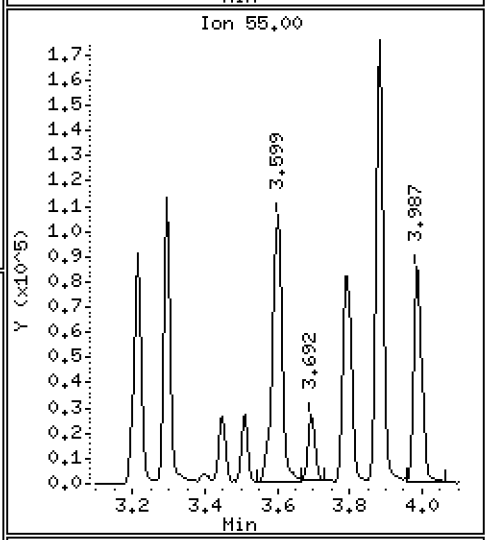


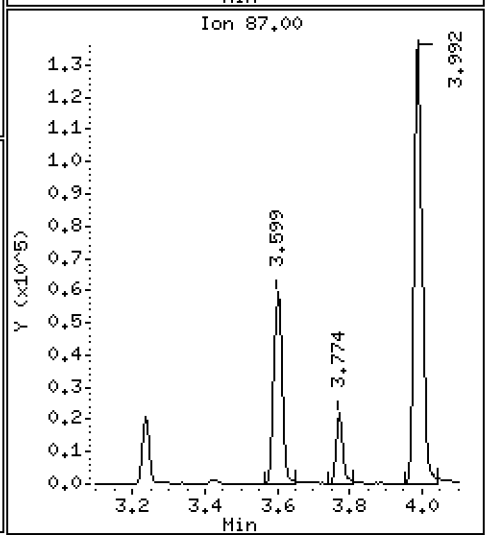












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 62

Date : 26-OCT-2016 10:55

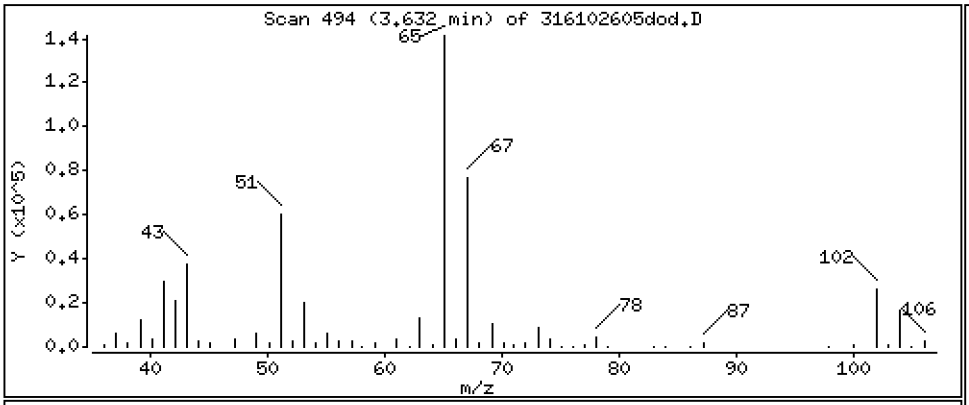
Client ID: LCS for HBN 174350 Instrument: ms03.i

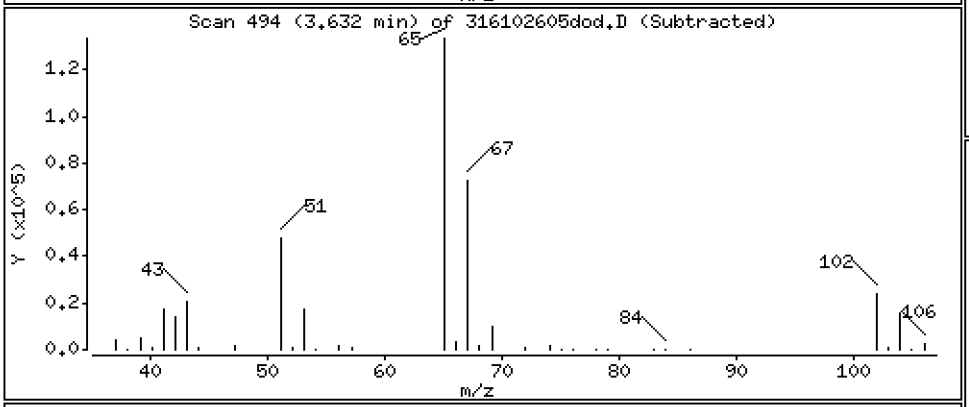
Sample Info: 2429648;;1;3;;LCS;1;

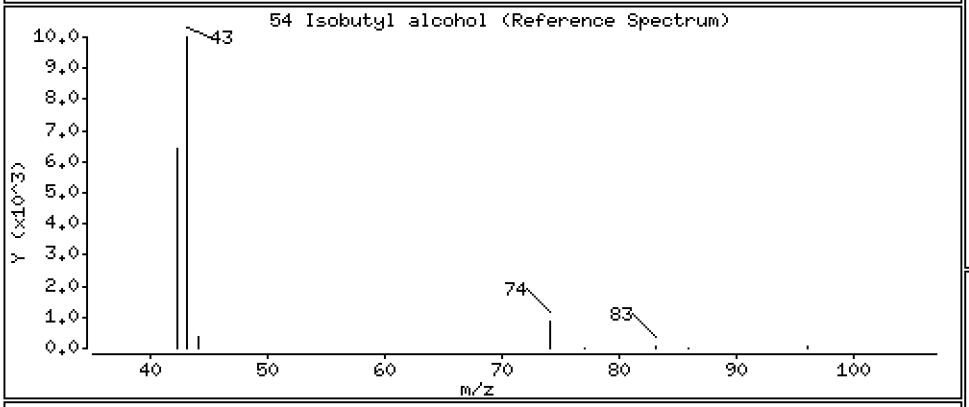
Purge Volume: 5.0 Operator: DD

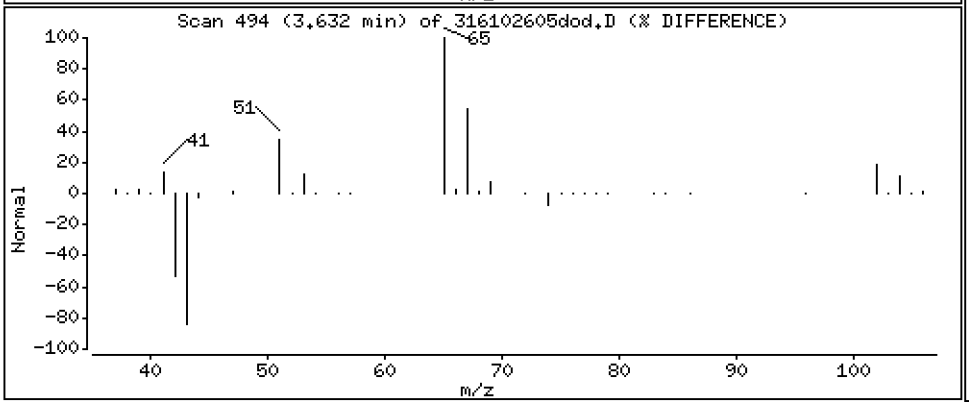
Column phase: DB-VRX Column diameter: 0.25

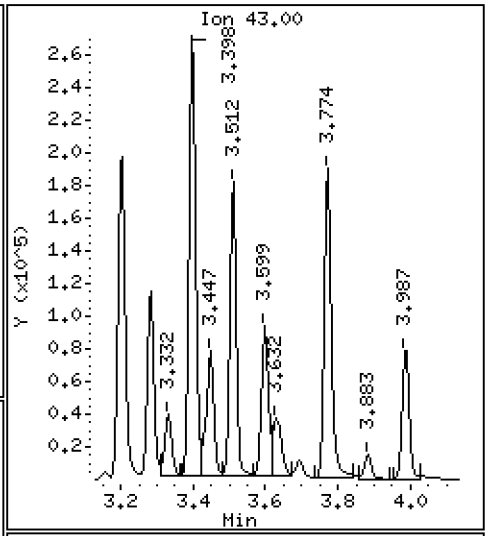
54 Isobutyl alcohol Concentration: 322.639 ug/L

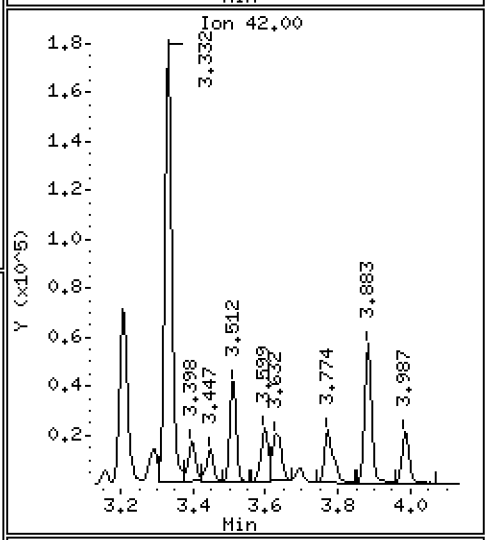


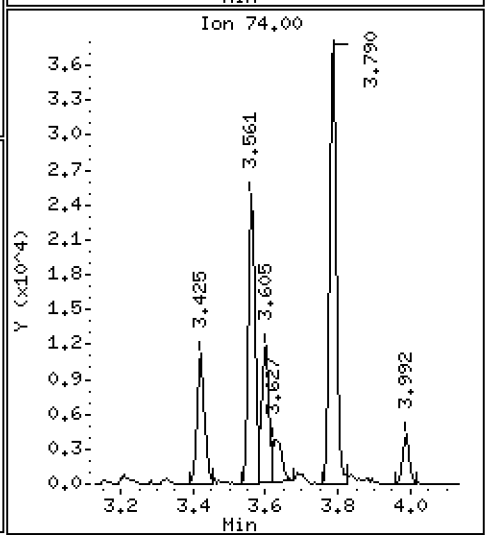












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 63

Date : 26-OCT-2016 10:55

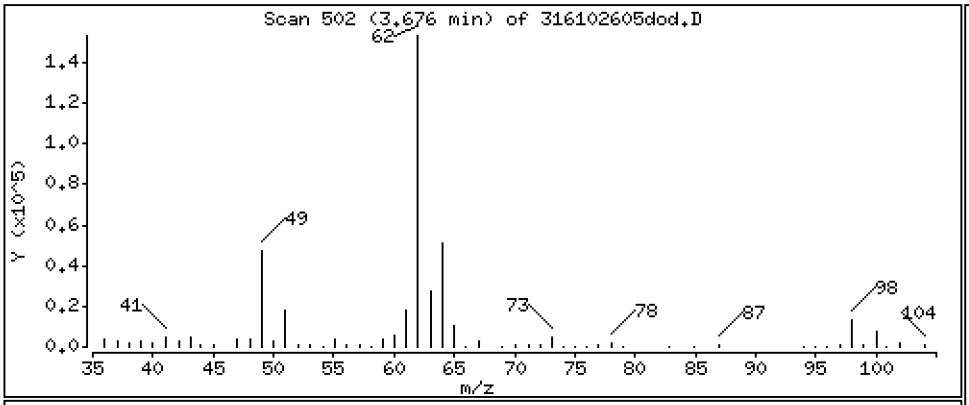
Client ID: LCS for HBN 174350 Instrument: ms03.i

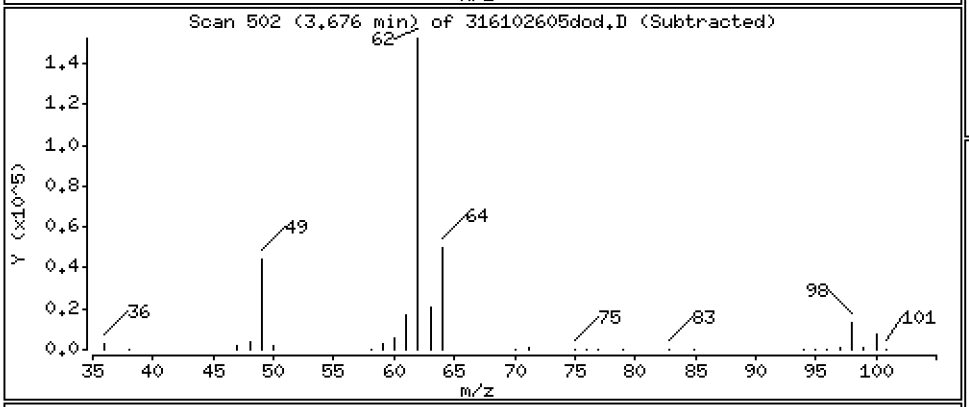
Sample Info: 2429648;;1;3;;LCS;1;

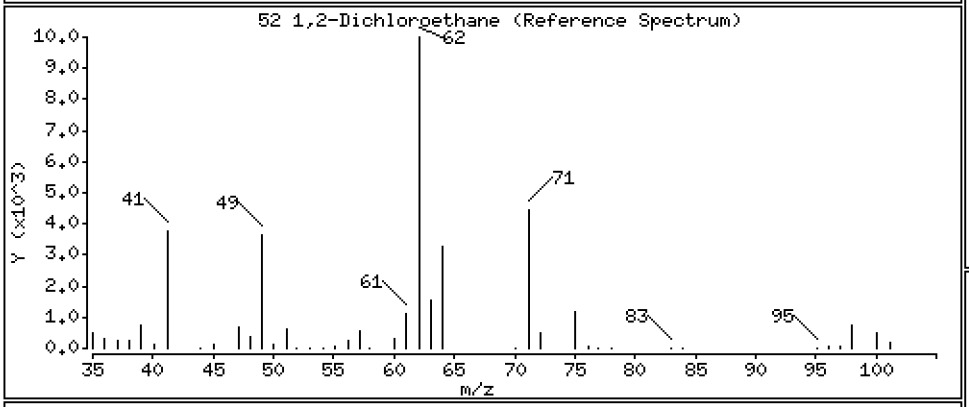
Purge Volume: 5.0 Operator: DD

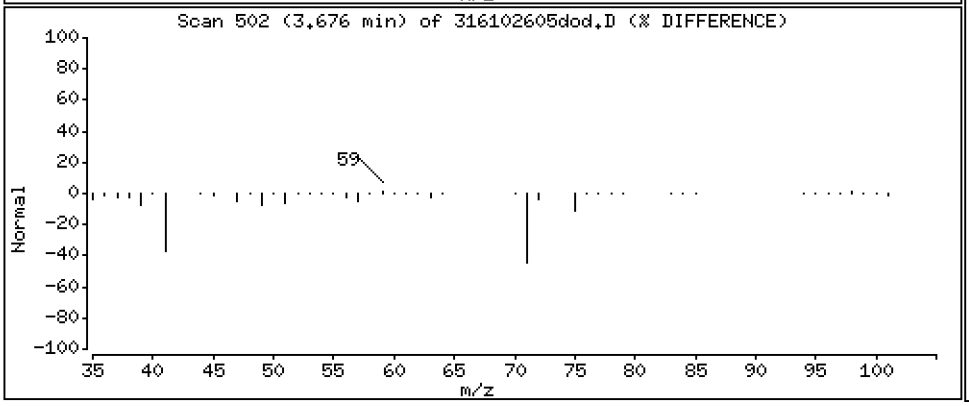
Column phase: DB-VRX Column diameter: 0.25

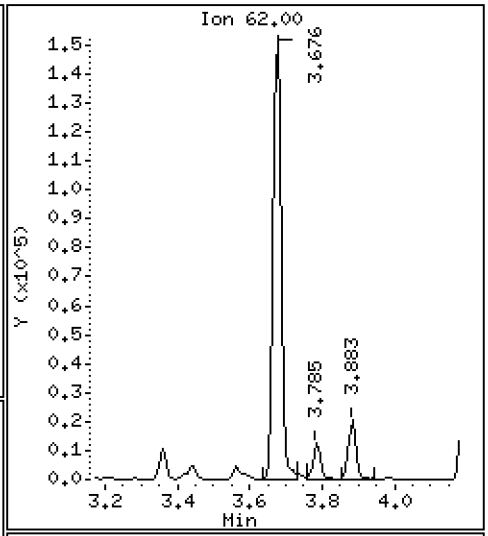
52 1,2-Dichloroethane Concentration: 19.6290 ug/L

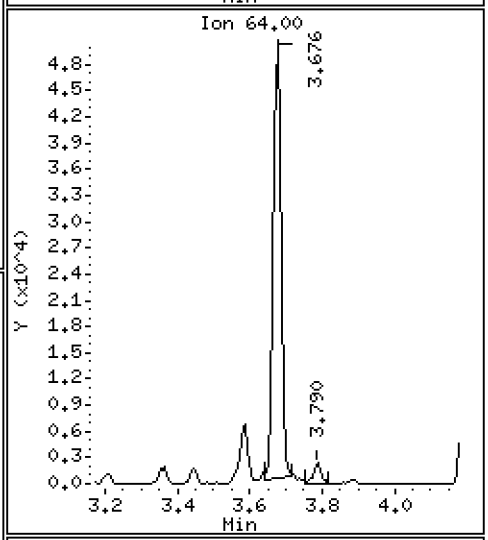


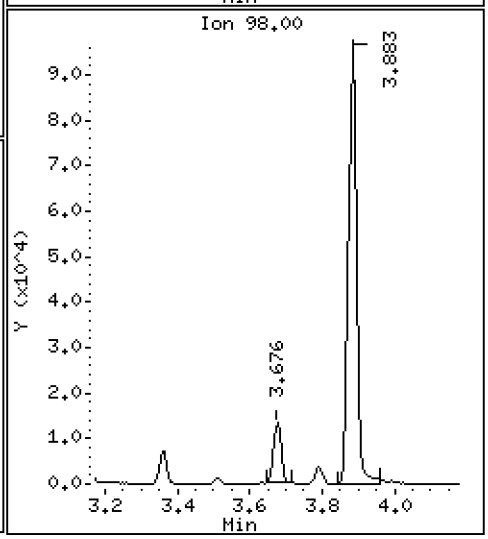












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 64

Date : 26-OCT-2016 10:55

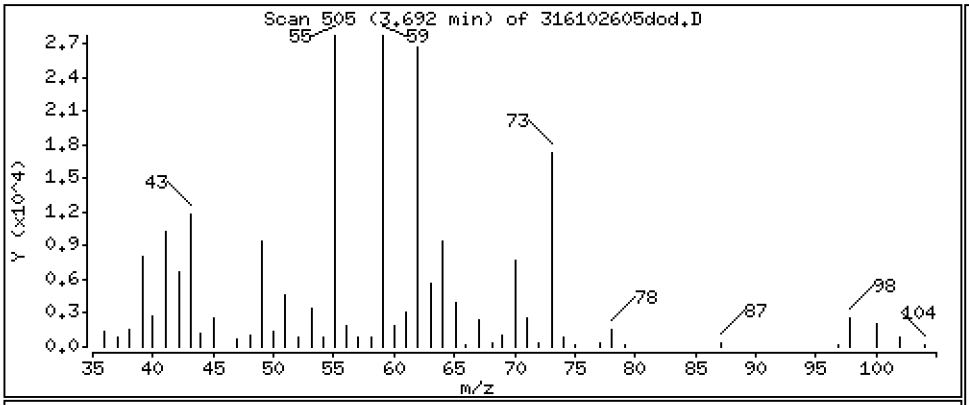
Client ID: LCS for HBN 174350 Instrument: ms03.i

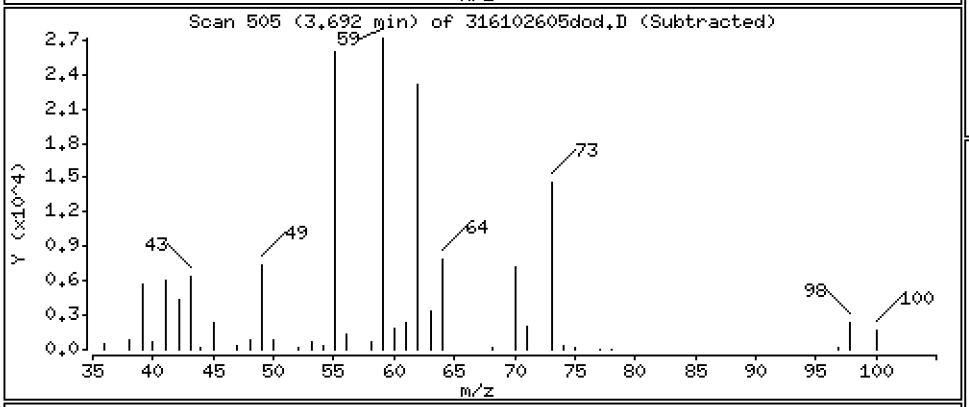
Sample Info: 2429648;;1;3;;LCS;1;

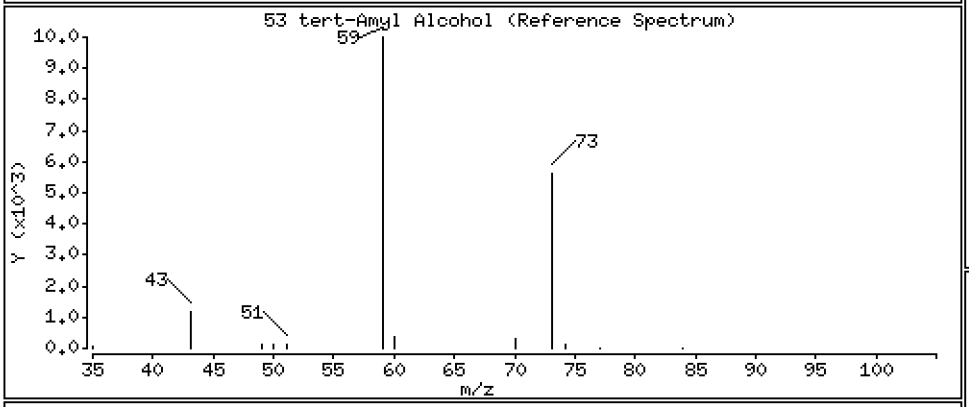
Purge Volume: 5.0 Operator: DD

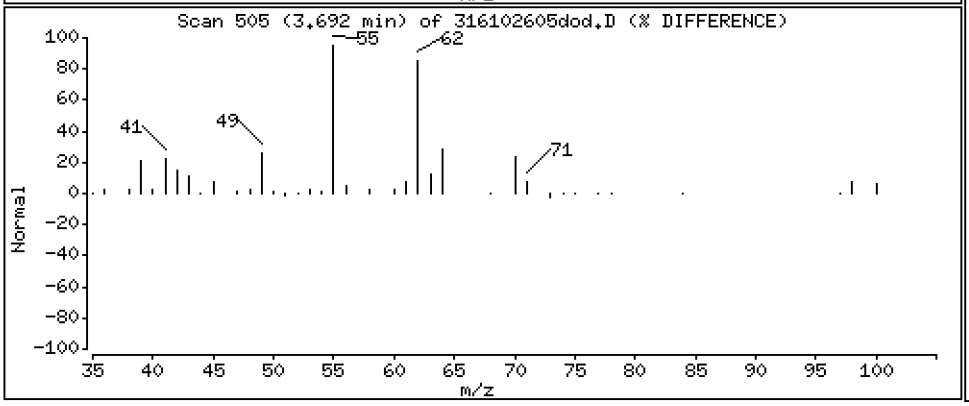
Column phase: DB-VRX Column diameter: 0.25

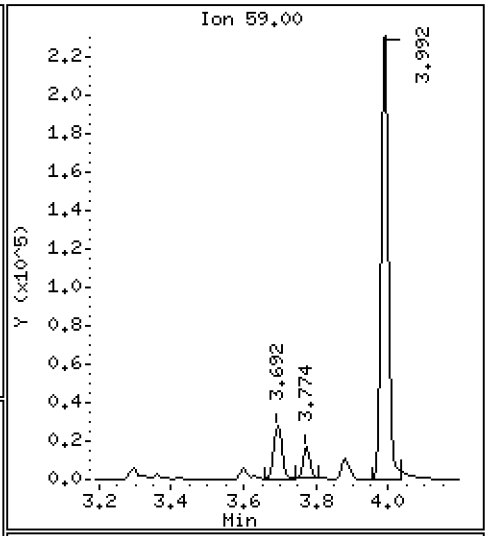
53 tert-Amyl Alcohol Concentration: 112.787 ug/L

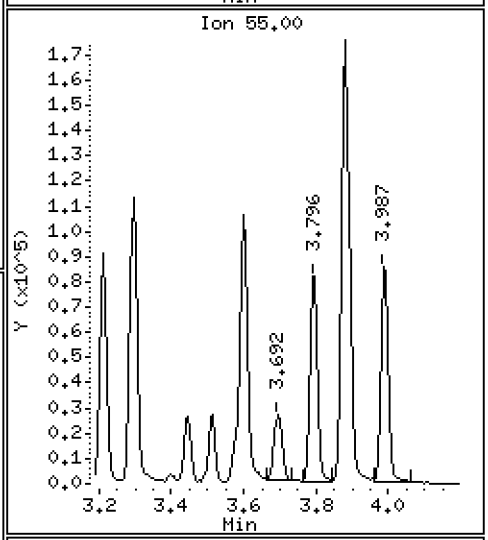


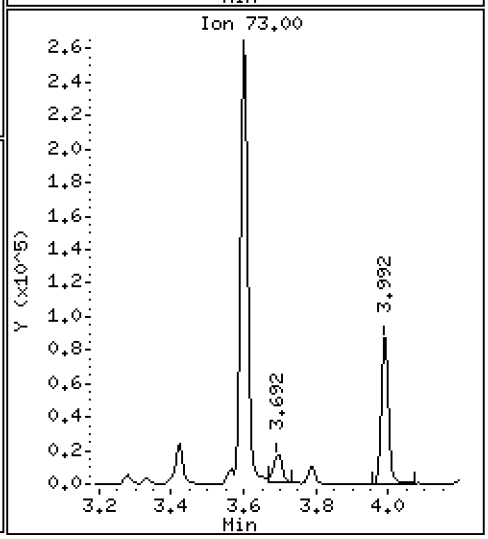












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 65

Date : 26-OCT-2016 10:55

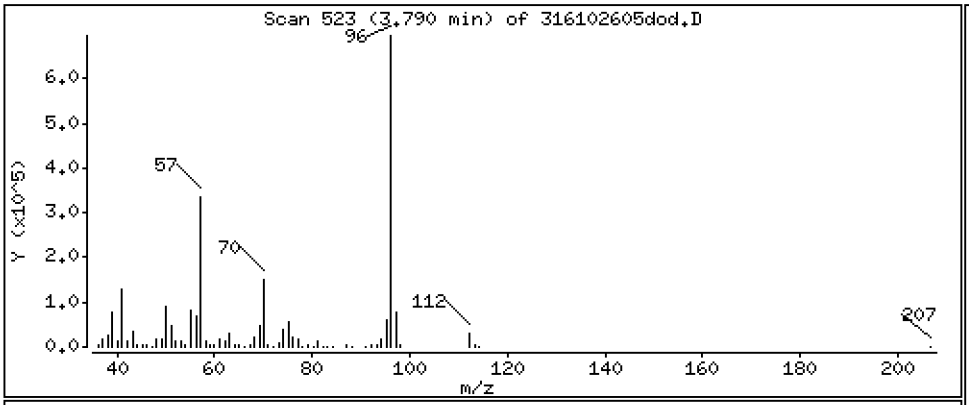
Client ID: LCS for HBN 174350 Instrument: ms03.i

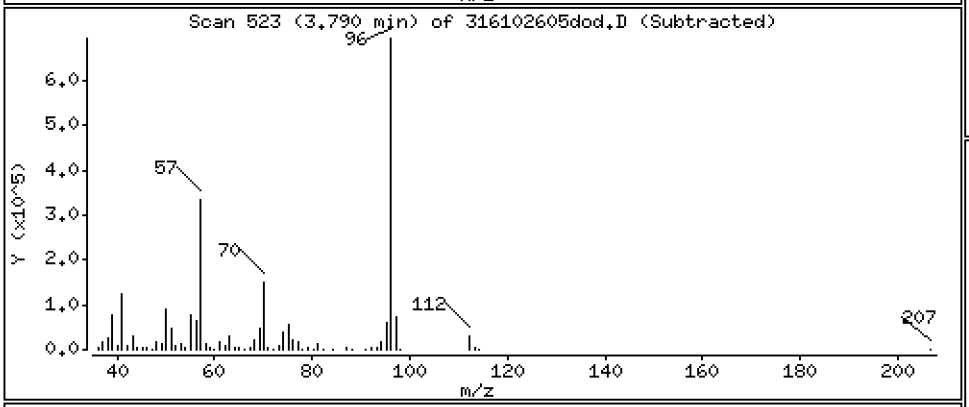
Sample Info: 2429648;;1;3;;LCS;1;

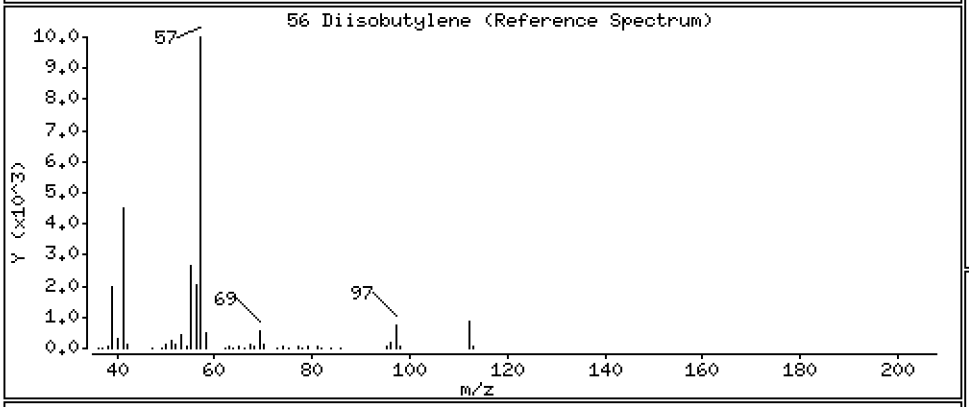
Purge Volume: 5.0 Operator: DD

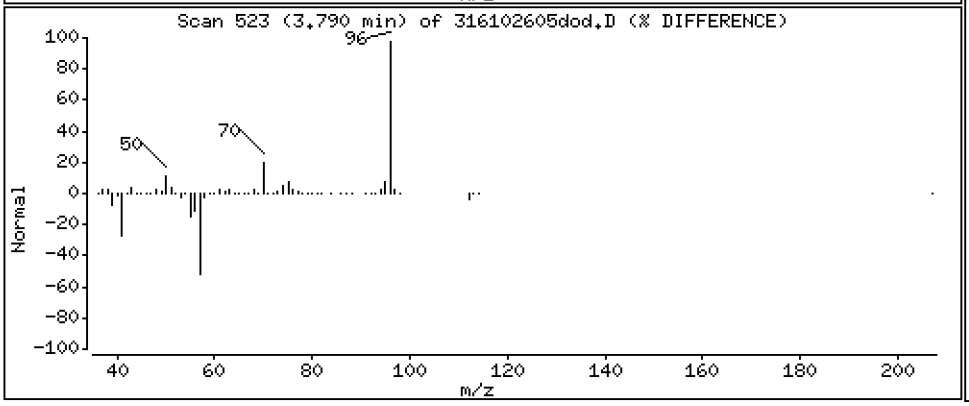
Column phase: DB-VRX Column diameter: 0.25

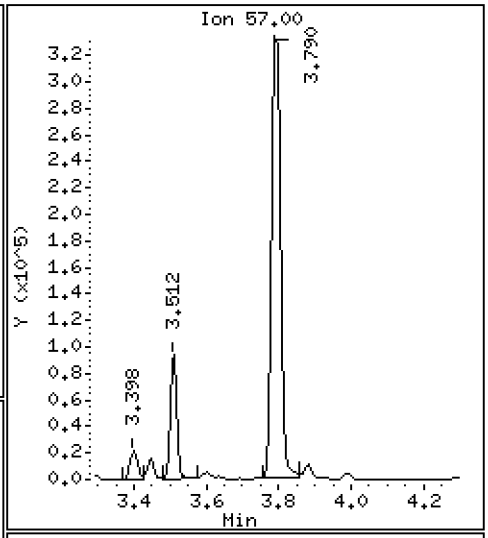
56 Diisobutylene Concentration: 25.4118 ug/L

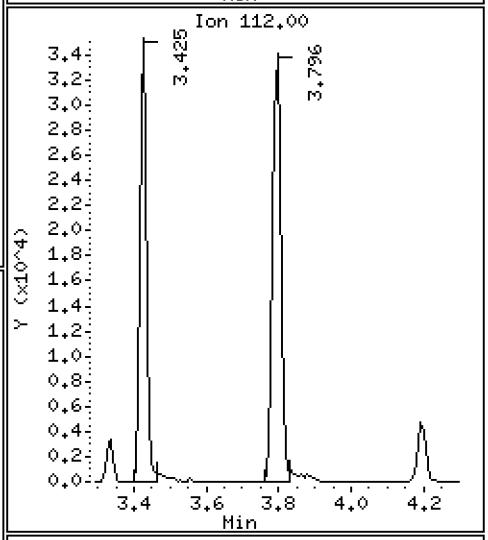


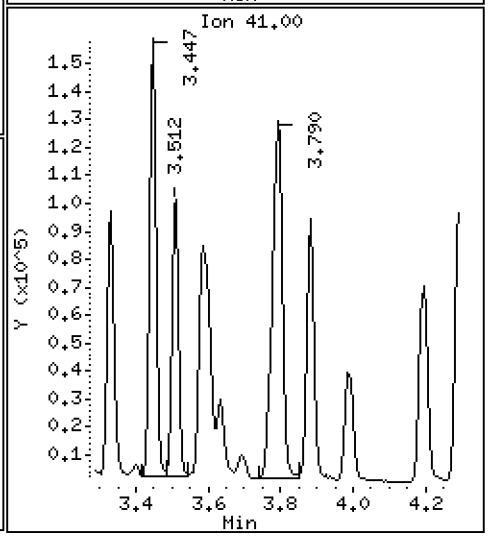












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 66

Date : 26-OCT-2016 10:55

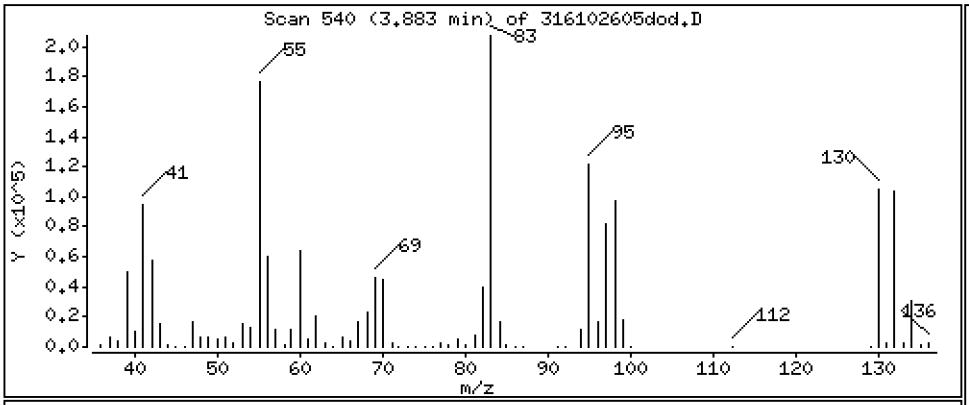
Client ID: LCS for HBN 174350 Instrument: ms03.i

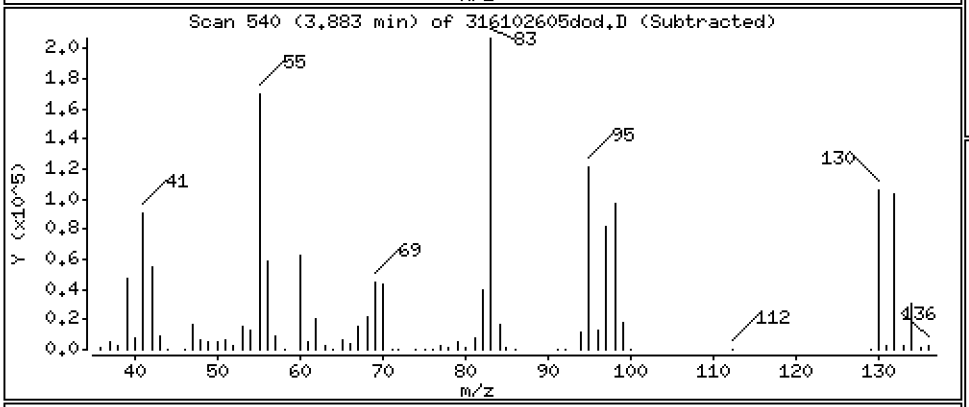
Sample Info: 2429648;;1;3;;LCS;1;

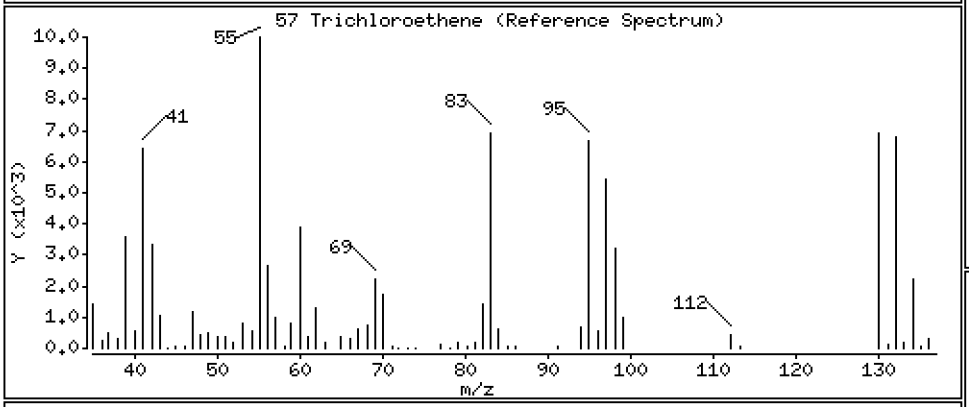
Purge Volume: 5.0 Operator: DD

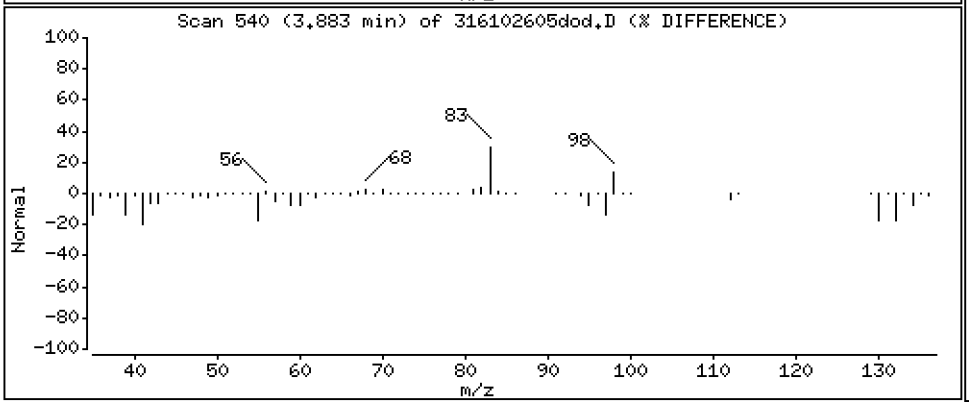
Column phase: DB-VRX Column diameter: 0.25

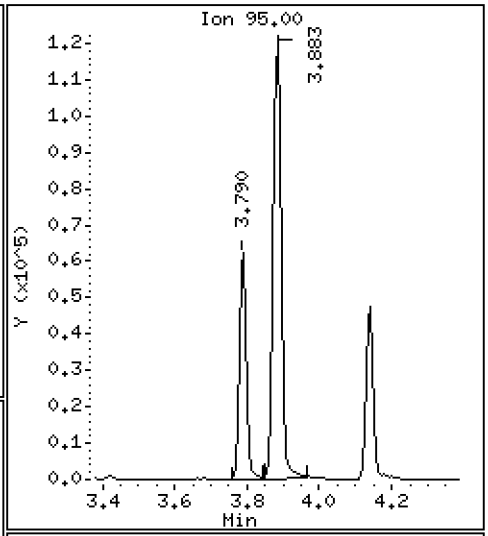
57 Trichloroethene Concentration: 19.3332 ug/L

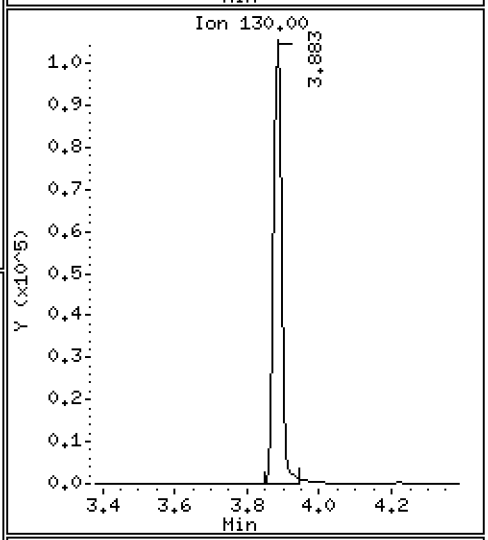


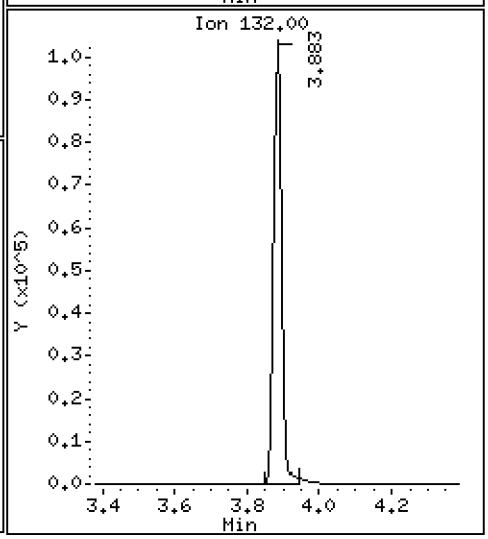












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 67

Date : 26-OCT-2016 10:55

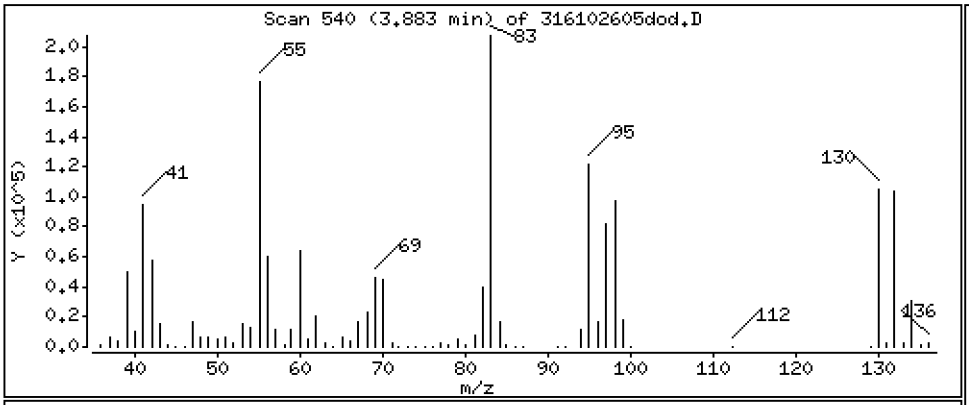
Client ID: LCS for HBN 174350 Instrument: ms03.i

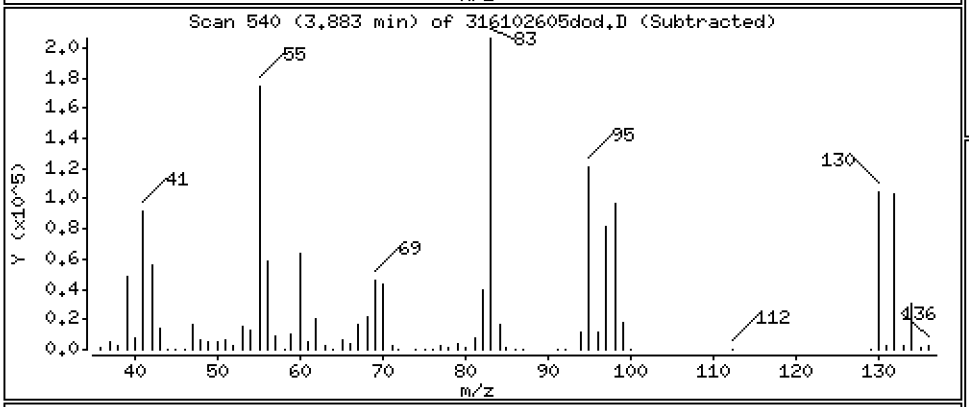
Sample Info: 2429648;;1;3;;LCS;1;

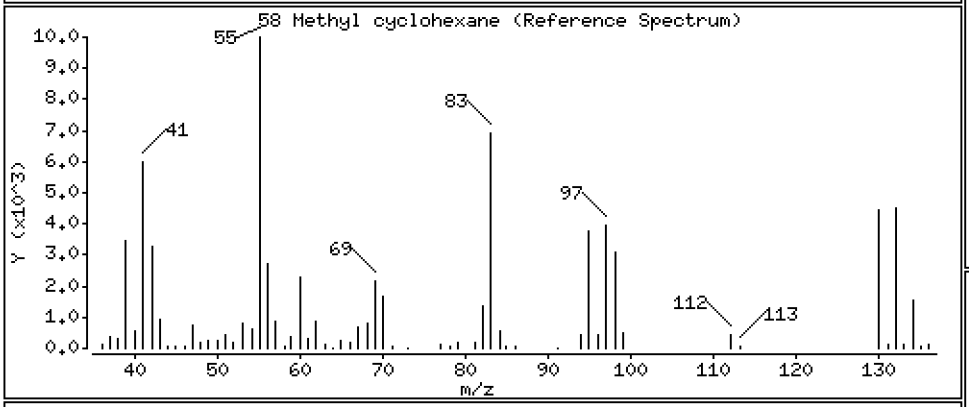
Purge Volume: 5.0 Operator: DD

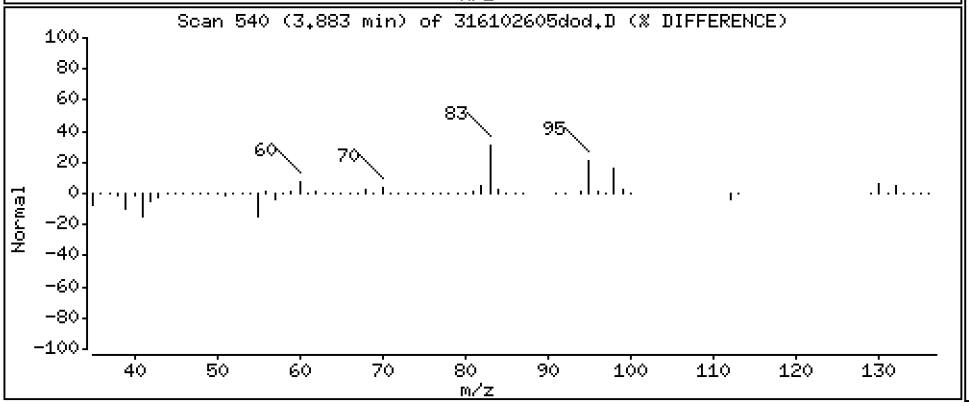
Column phase: DB-VRX Column diameter: 0.25

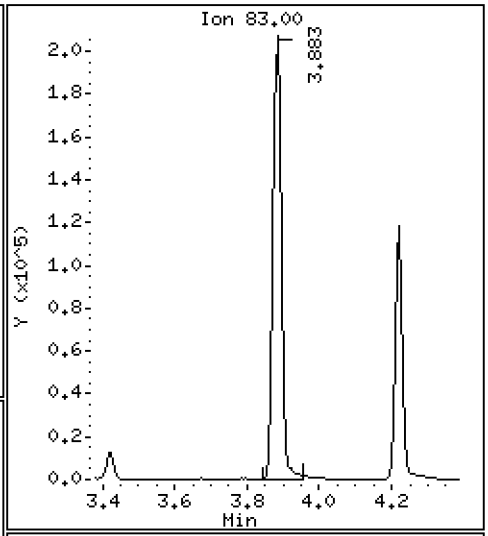
58 Methyl cyclohexane Concentration: 20.8520 ug/L

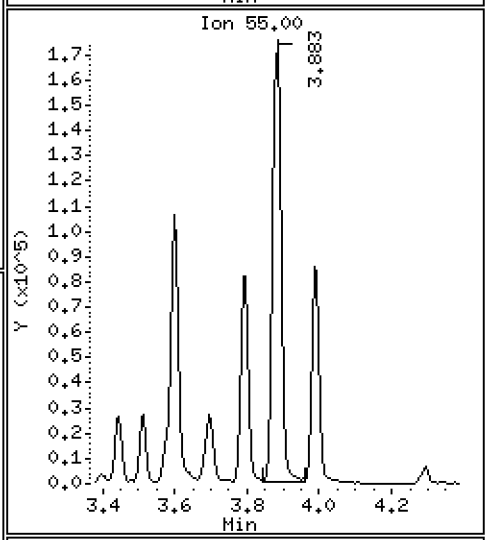


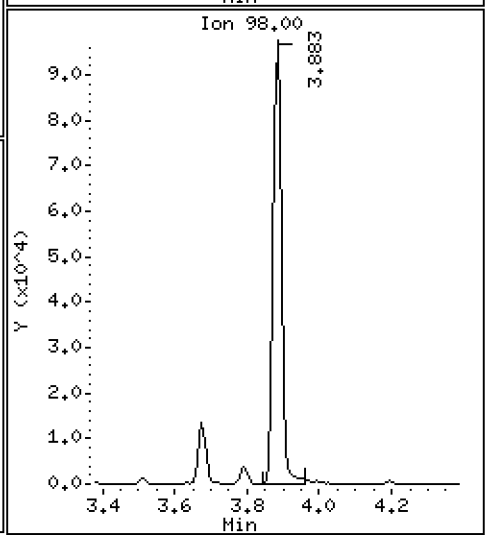












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 68

Date : 26-OCT-2016 10:55

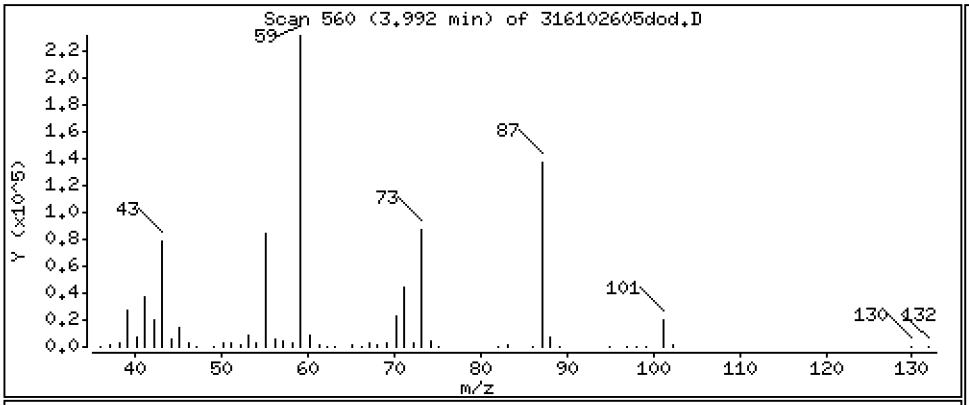
Client ID: LCS for HBN 174350 Instrument: ms03.i

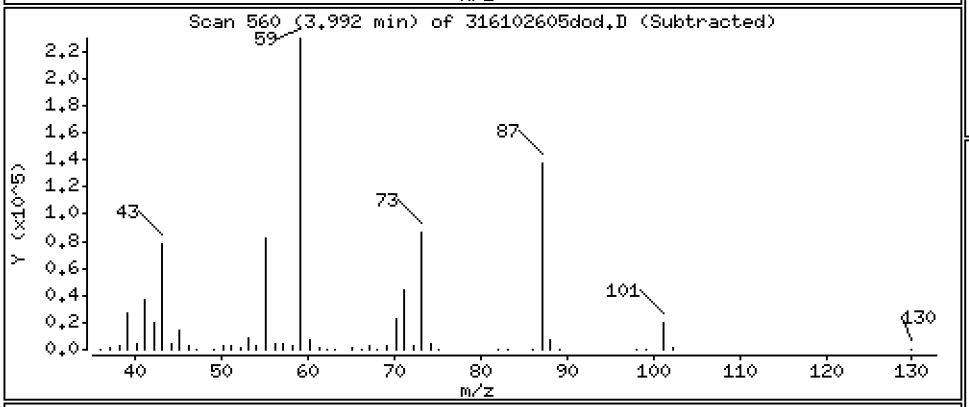
Sample Info: 2429648;;1;3;;LCS;1;

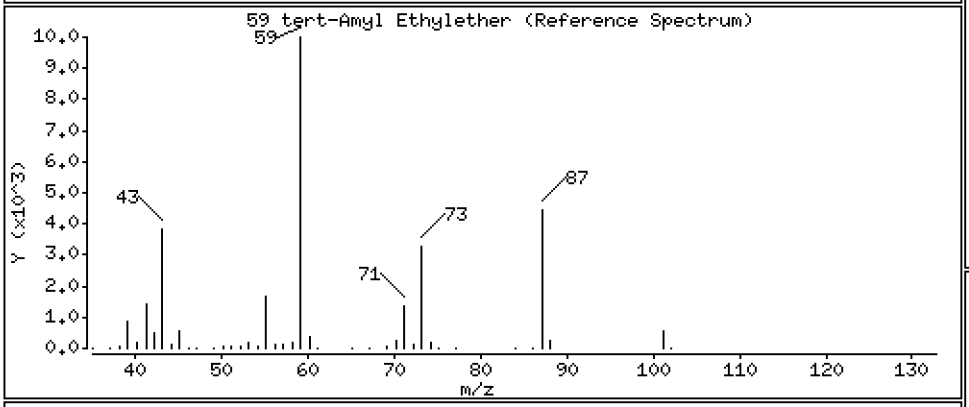
Purge Volume: 5.0 Operator: DD

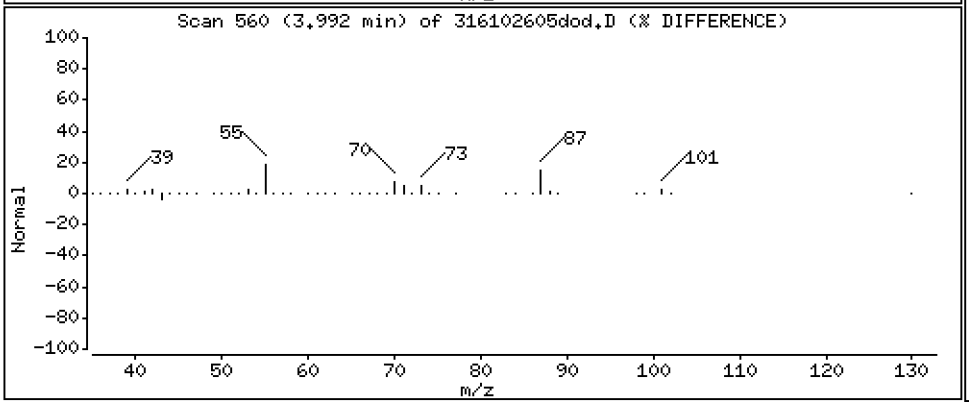
Column phase: DB-VRX Column diameter: 0.25

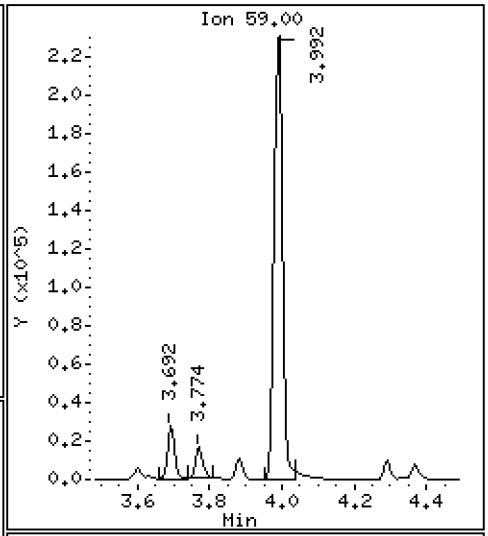
59 tert-Amyl Ethylether Concentration: 20.3489 ug/L

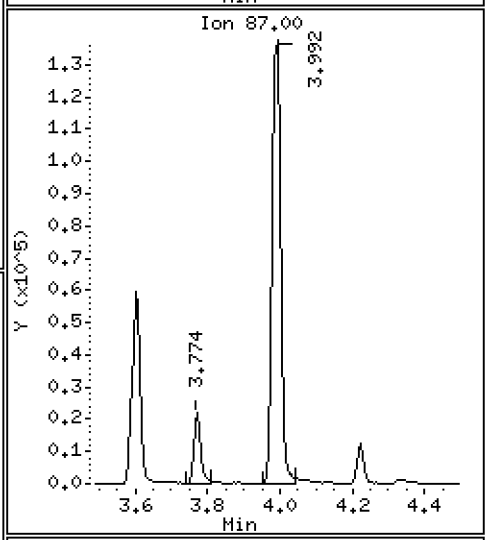


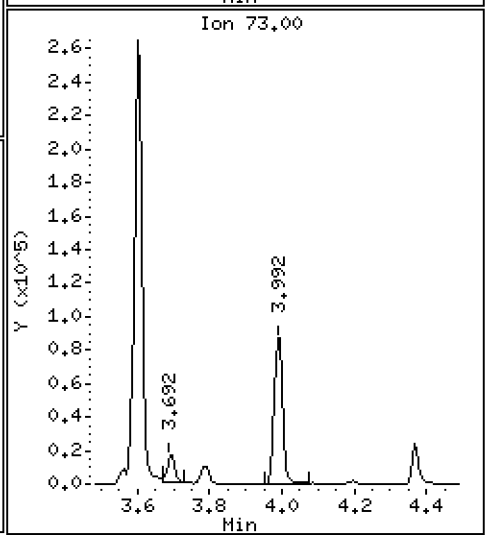












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 69

Date : 26-OCT-2016 10:55

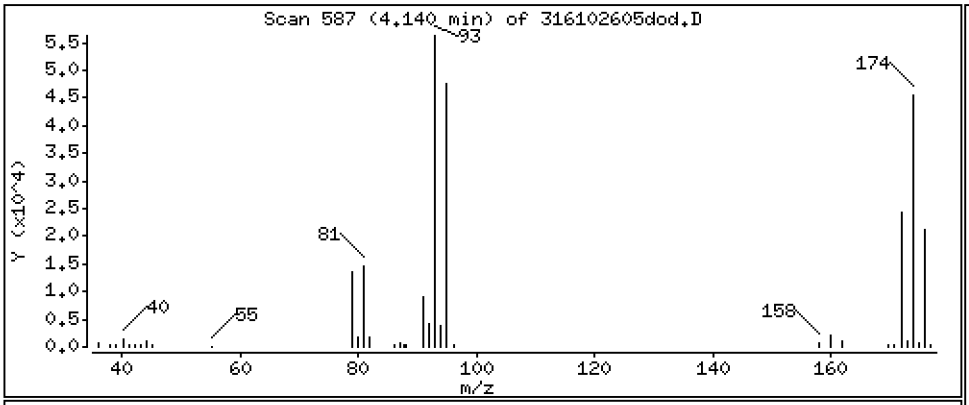
Client ID: LCS for HBN 174350 Instrument: ms03.i

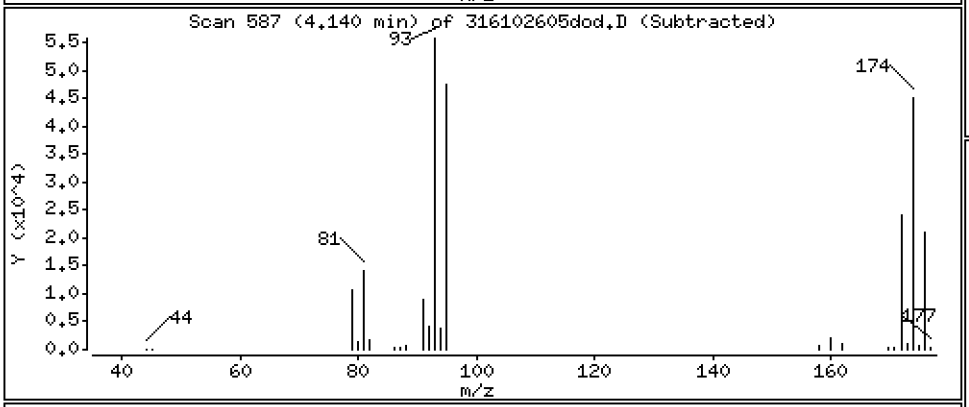
Sample Info: 2429648;;1;3;;LCS;1;

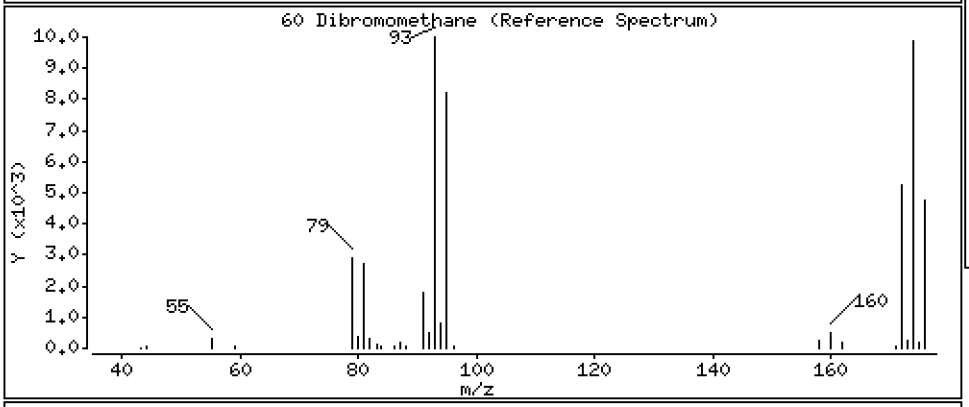
Purge Volume: 5.0 Operator: DD

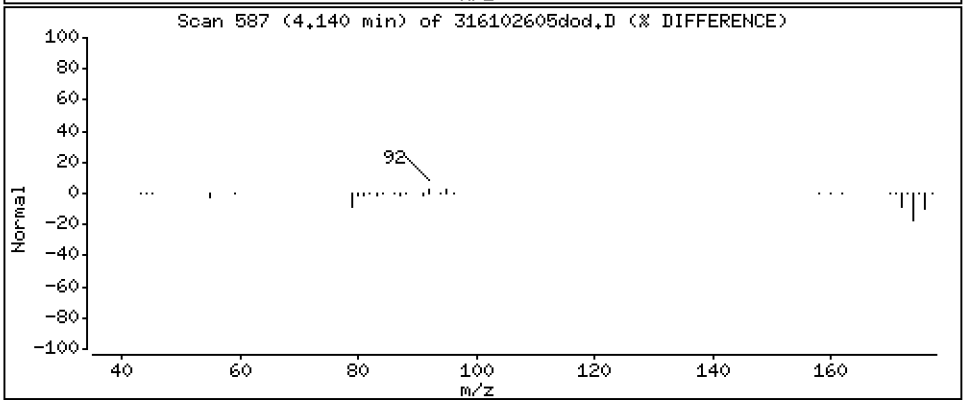
Column phase: DB-VRX Column diameter: 0.25

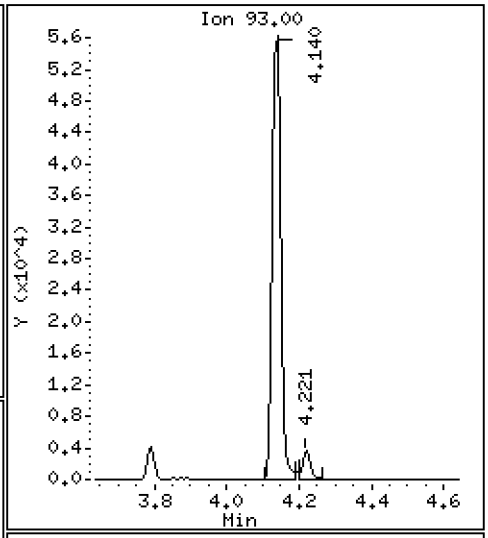
60 Dibromomethane Concentration: 18.8095 ug/L

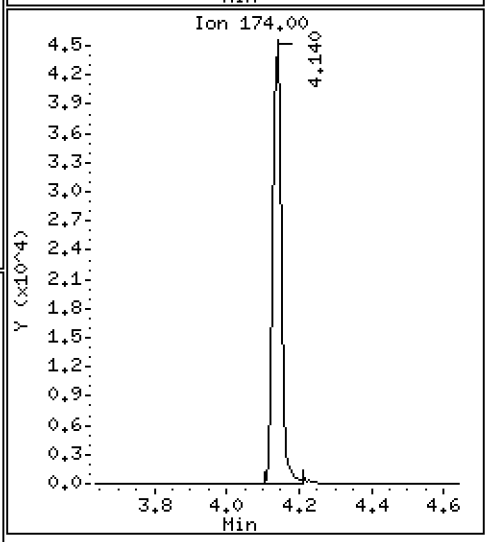












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 70

Date : 26-OCT-2016 10:55

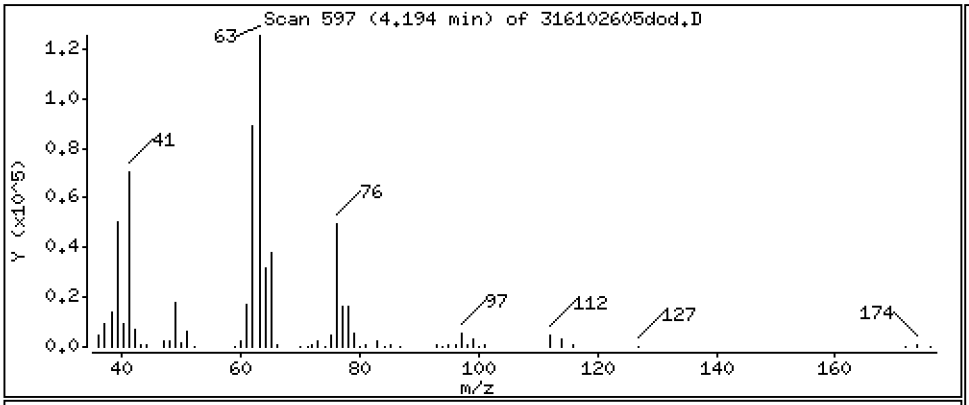
Client ID: LCS for HBN 174350 Instrument: ms03.i

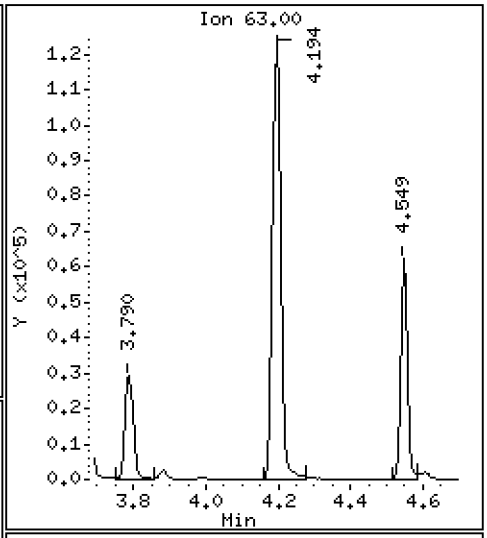
Sample Info: 2429648;;1;3;;LCS;1;

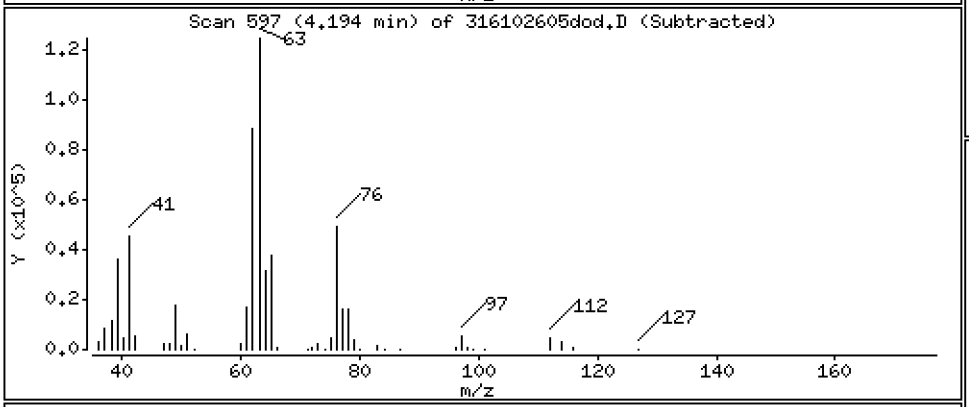
Purge Volume: 5.0 Operator: DD

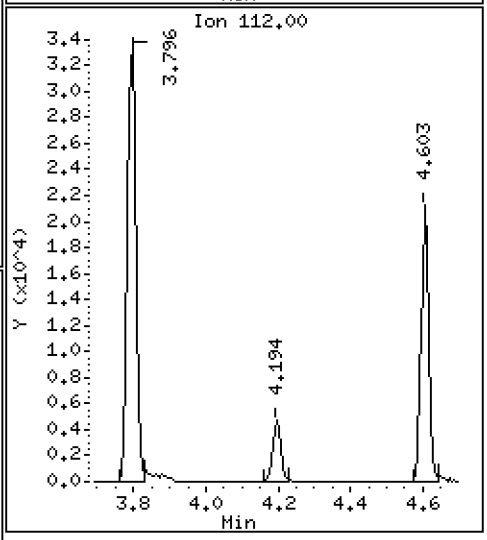
Column phase: DB-VRX Column diameter: 0.25

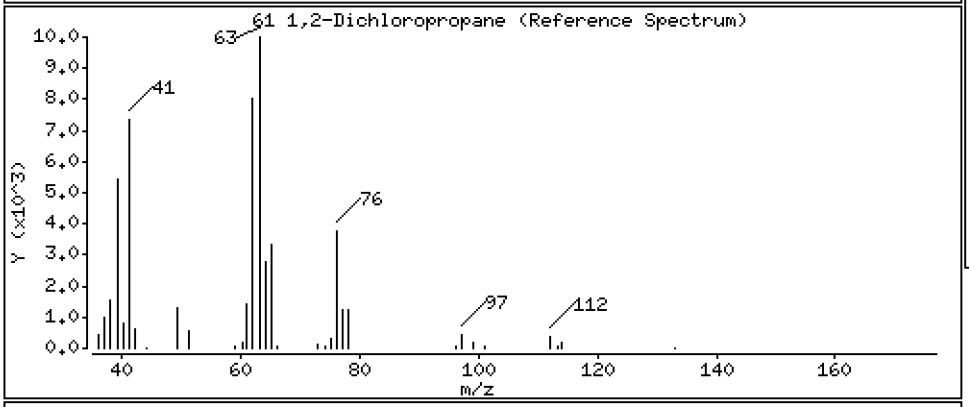
61 1,2-Dichloropropane Concentration: 20.2862 ug/L

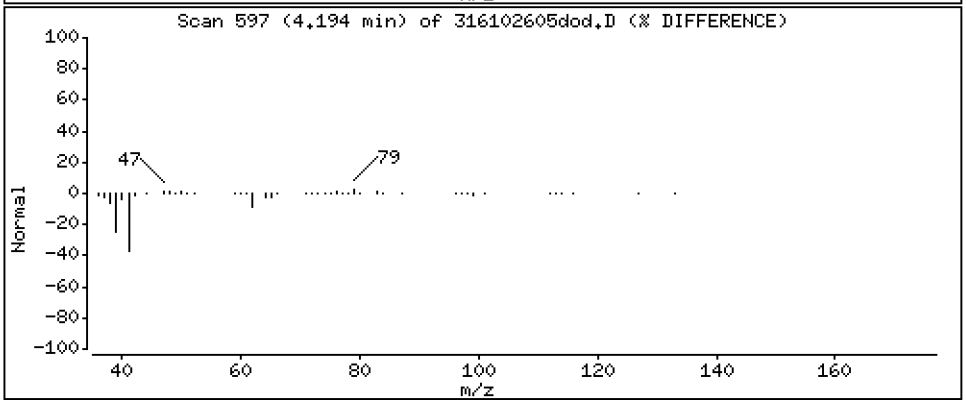












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 71

Date : 26-OCT-2016 10:55

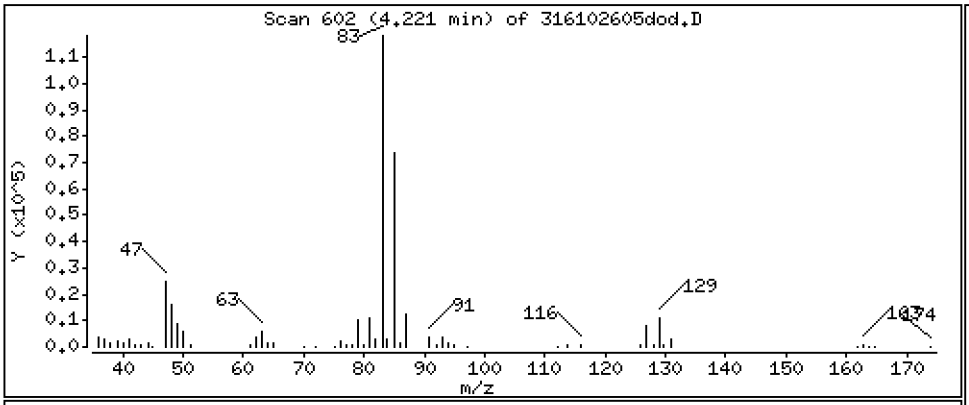
Client ID: LCS for HBN 174350 Instrument: ms03.i

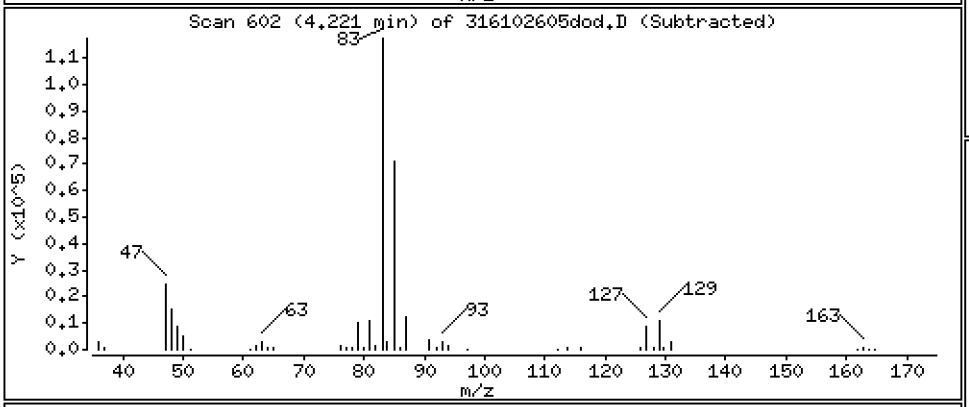
Sample Info: 2429648;;1;3;;LCS;1;

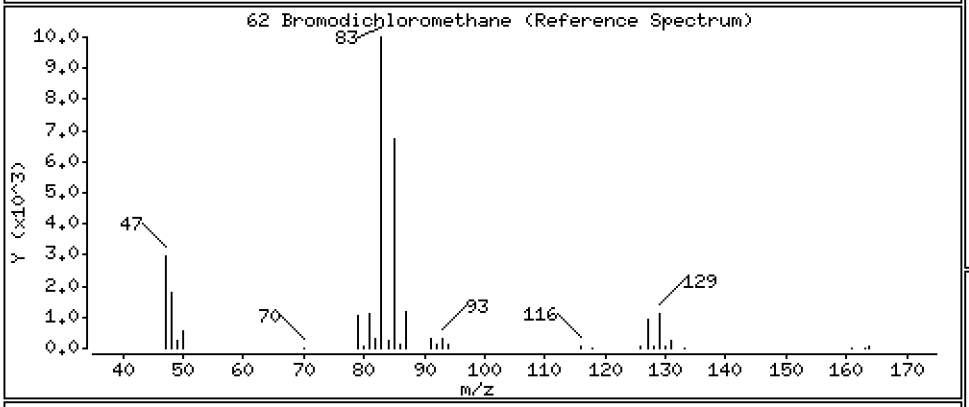
Purge Volume: 5.0 Operator: DD

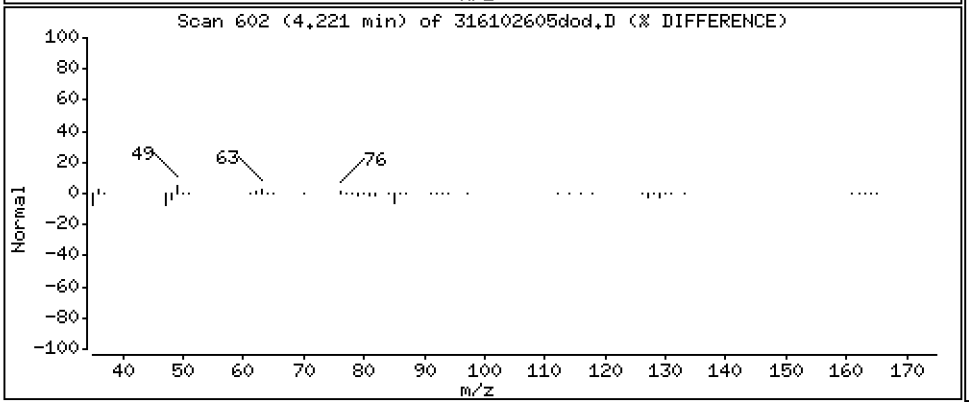
Column phase: DB-VRX Column diameter: 0.25

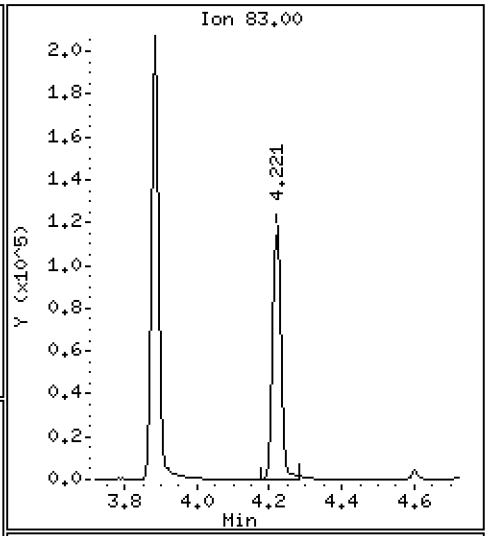
62 Bromodichloromethane Concentration: 18.9187 ug/L

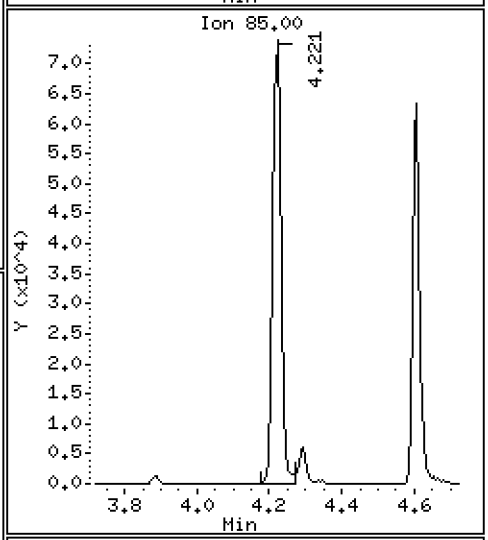


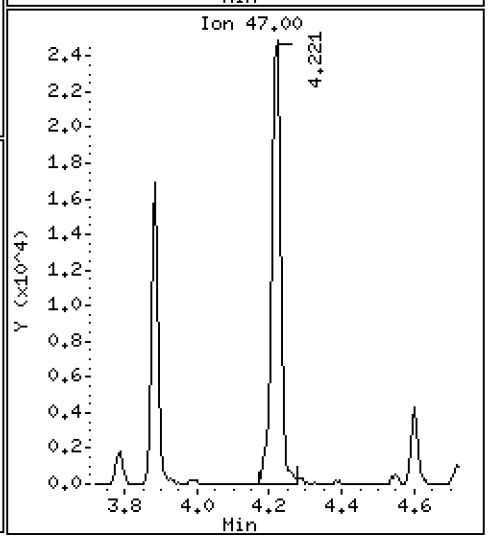












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 72

Date : 26-OCT-2016 10:55

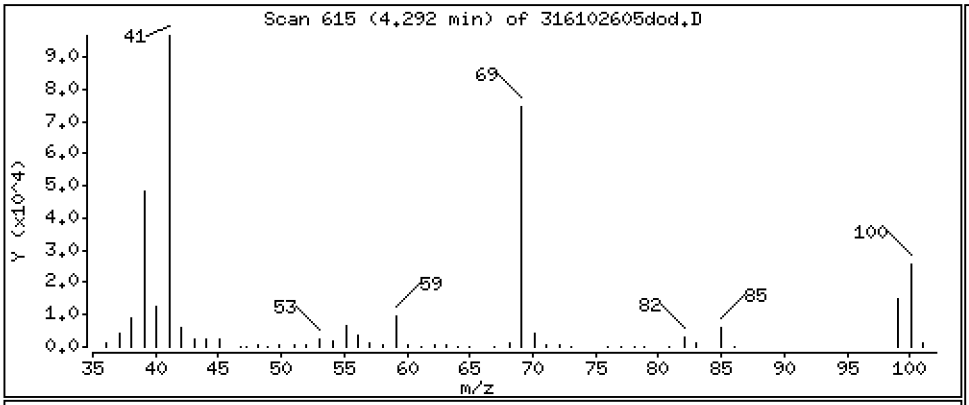
Client ID: LCS for HBN 174350 Instrument: ms03.i

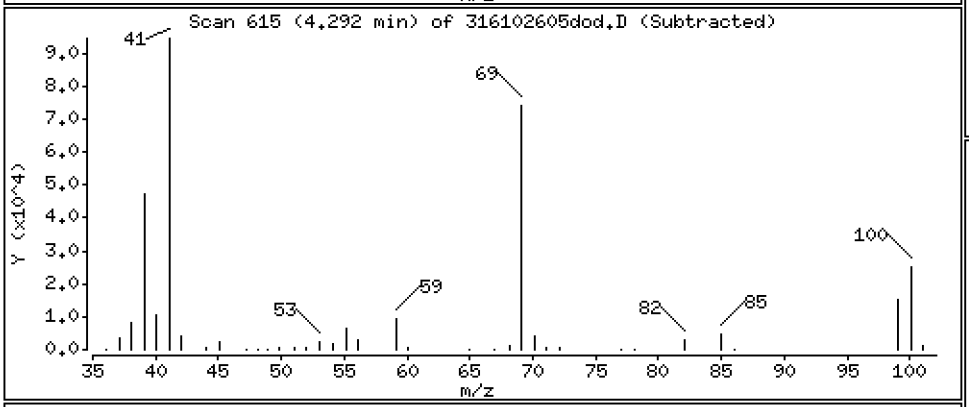
Sample Info: 2429648;;1;3;;LCS;1;

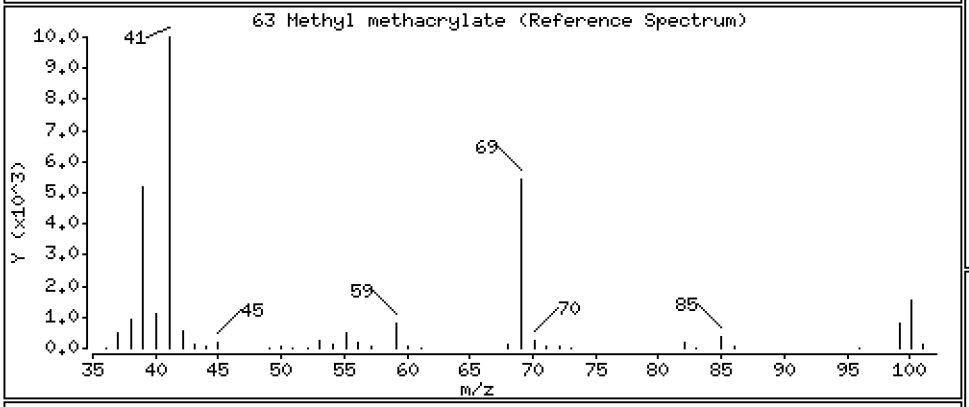
Purge Volume: 5.0 Operator: DD

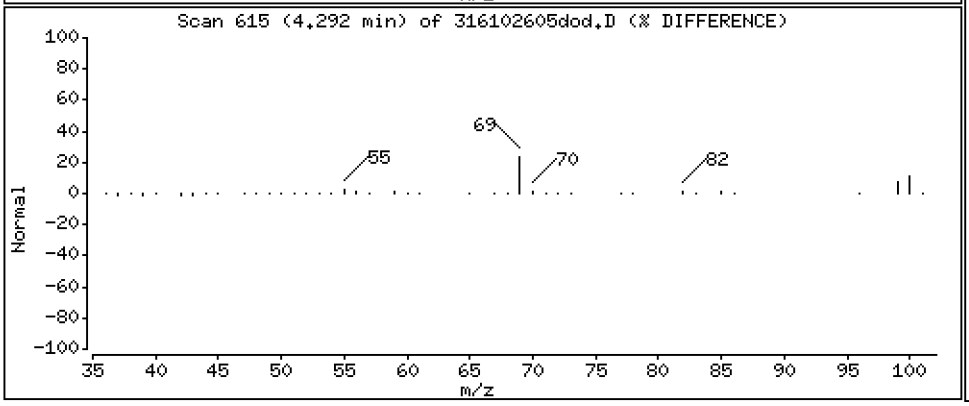
Column phase: DB-VRX Column diameter: 0.25

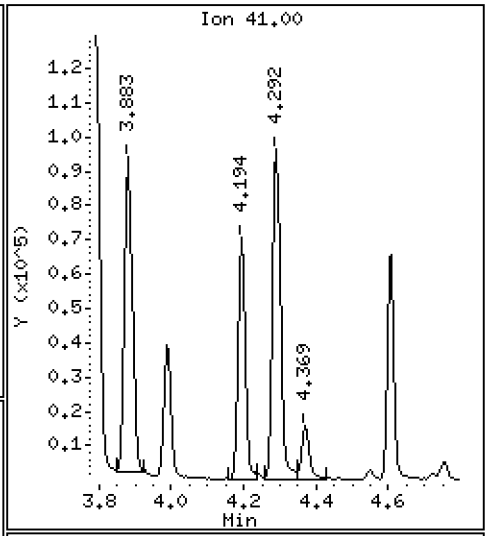
63 Methyl methacrylate Concentration: 22.0501 ug/L

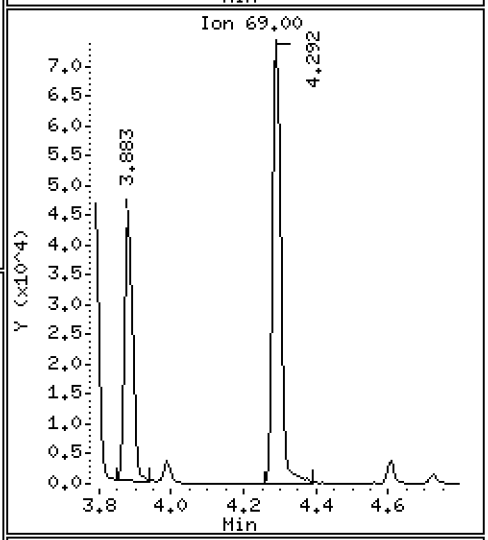


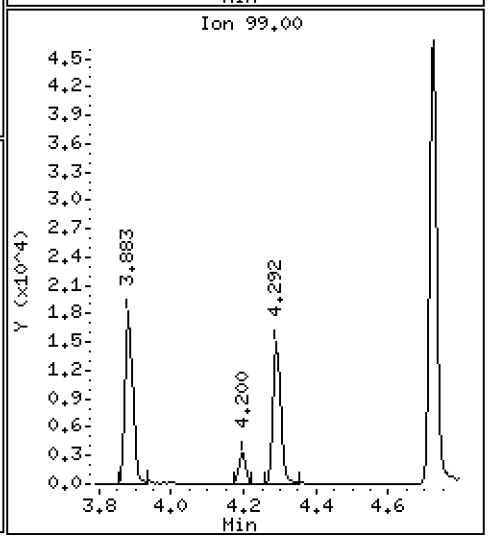












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 73

Date : 26-OCT-2016 10:55

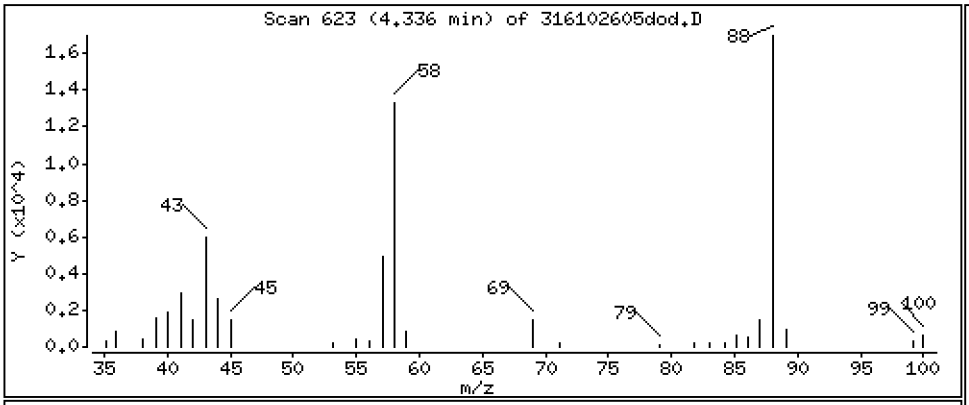
Client ID: LCS for HBN 174350 Instrument: ms03.i

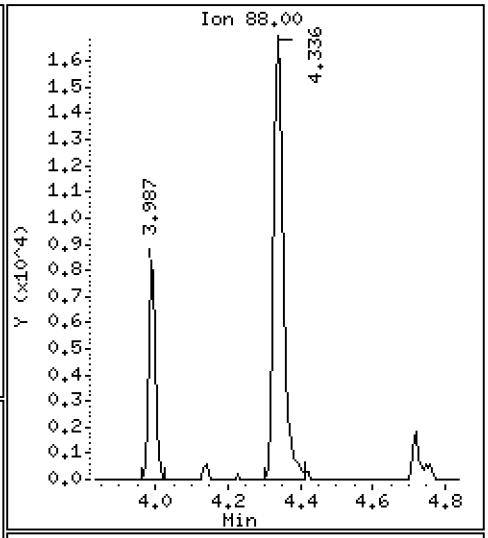
Sample Info: 2429648;;1;3;;LCS;1;

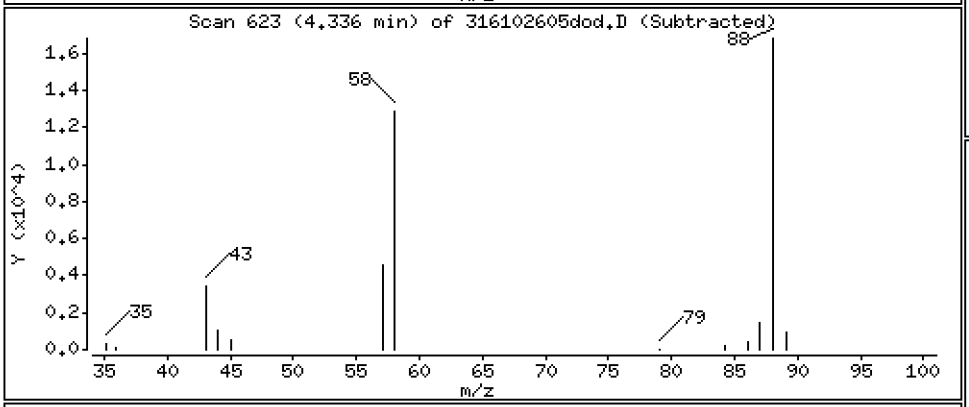
Purge Volume: 5.0 Operator: DD

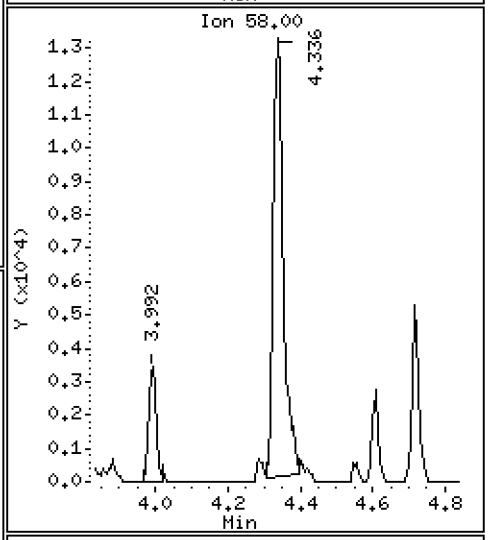
Column phase: DB-VRX Column diameter: 0.25

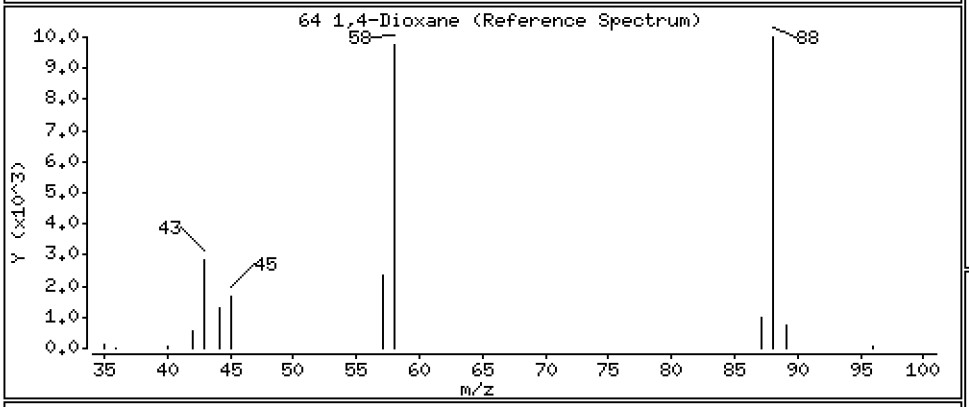
64 1,4-Dioxane Concentration: 995.536 ug/L

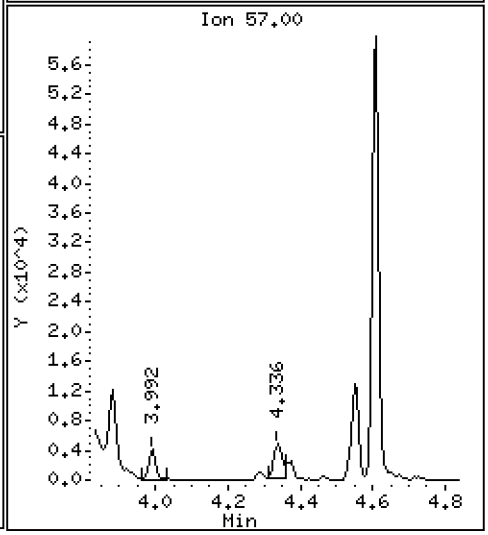


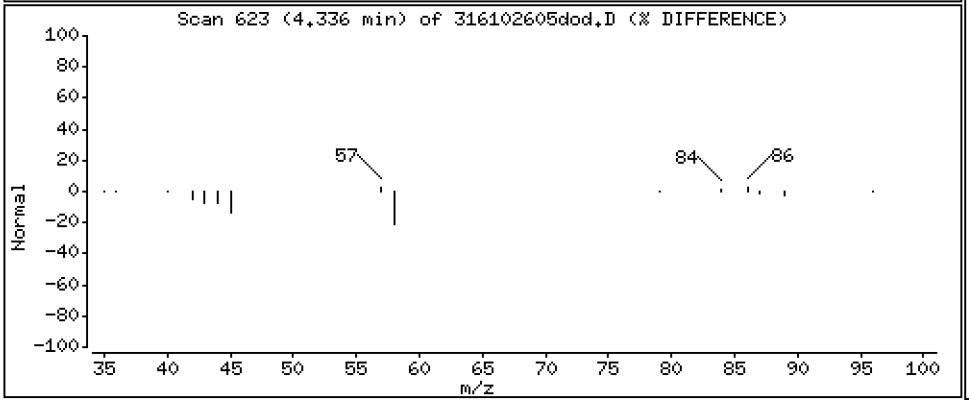












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 74

Date : 26-OCT-2016 10:55

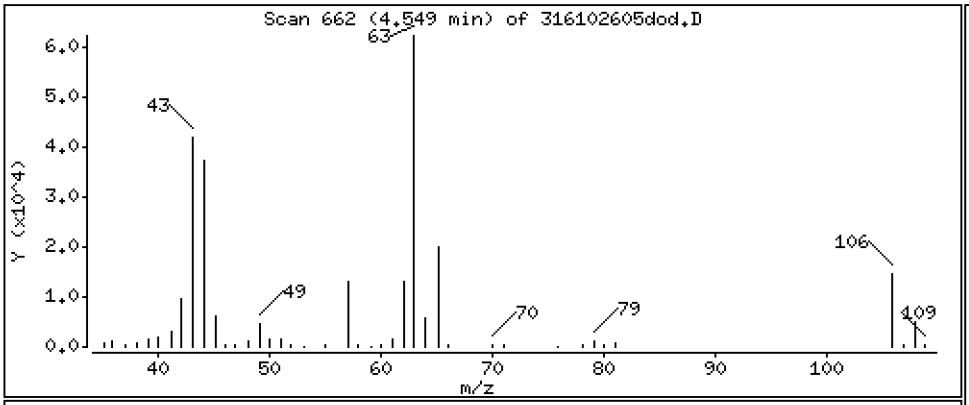
Client ID: LCS for HBN 174350 Instrument: ms03.i

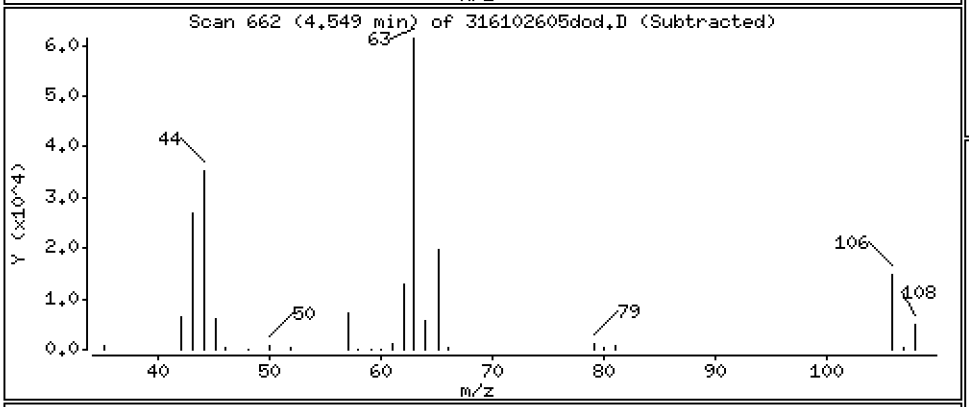
Sample Info: 2429648;;1;3;;LCS;1;

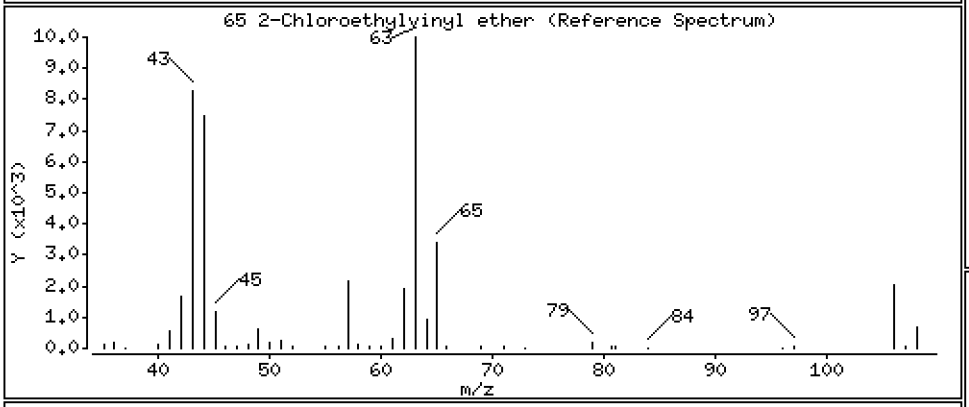
Purge Volume: 5.0 Operator: DD

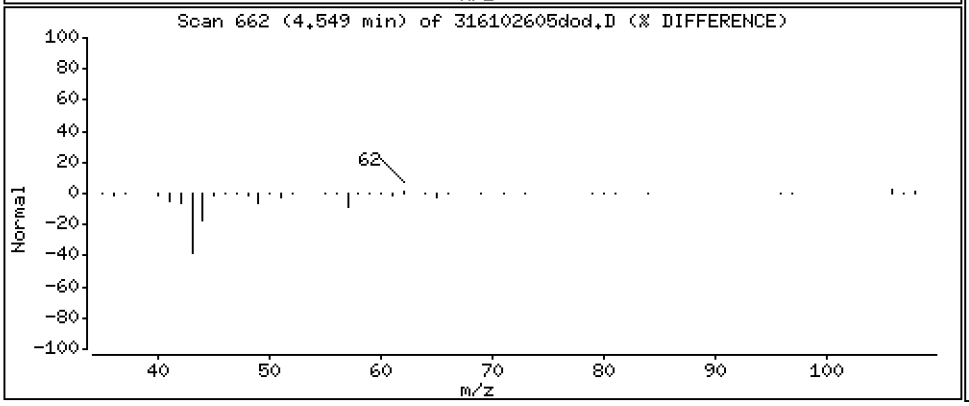
Column phase: DB-VRX Column diameter: 0.25

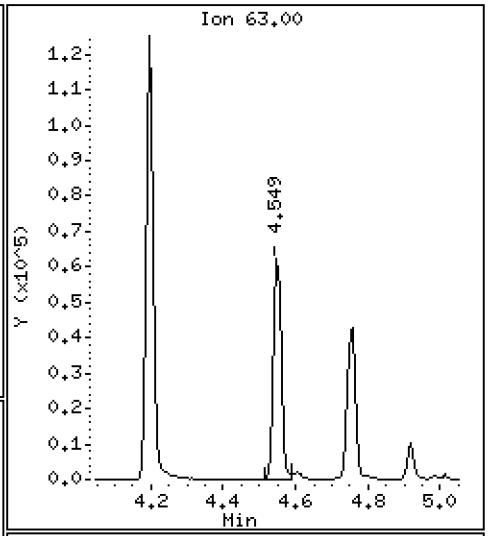
65 2-Chloroethylvinyl ether Concentration: 19.2489 ug/L

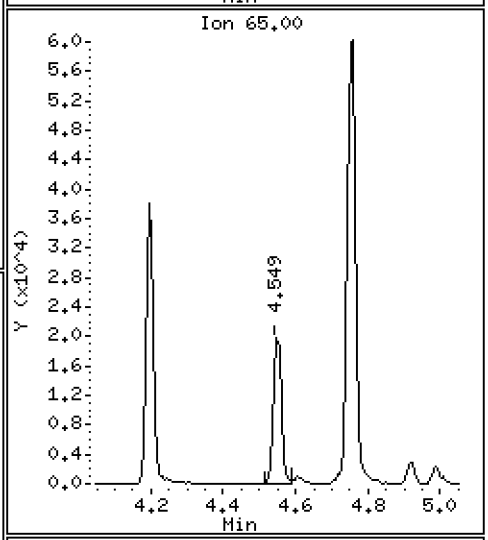


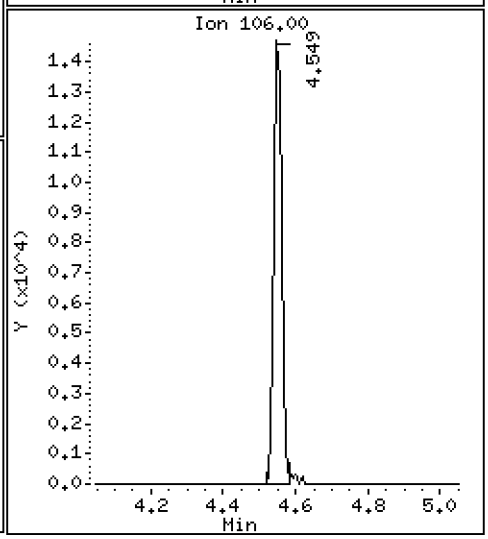












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 75

Date : 26-OCT-2016 10:55

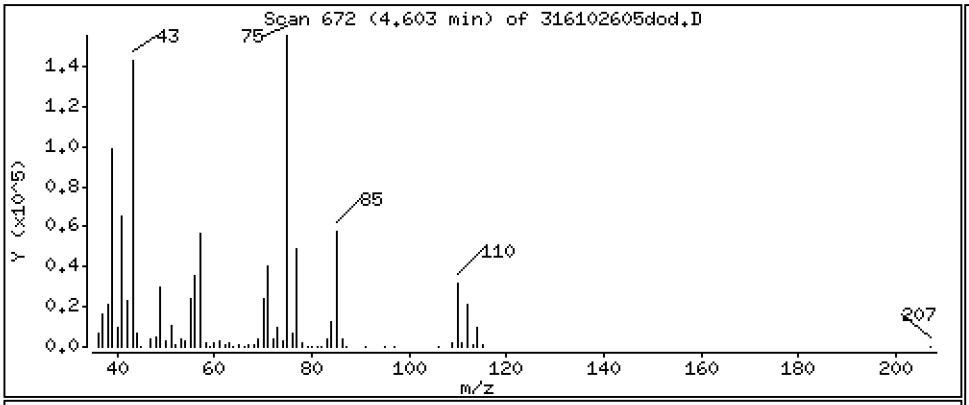
Client ID: LCS for HBN 174350 Instrument: ms03.i

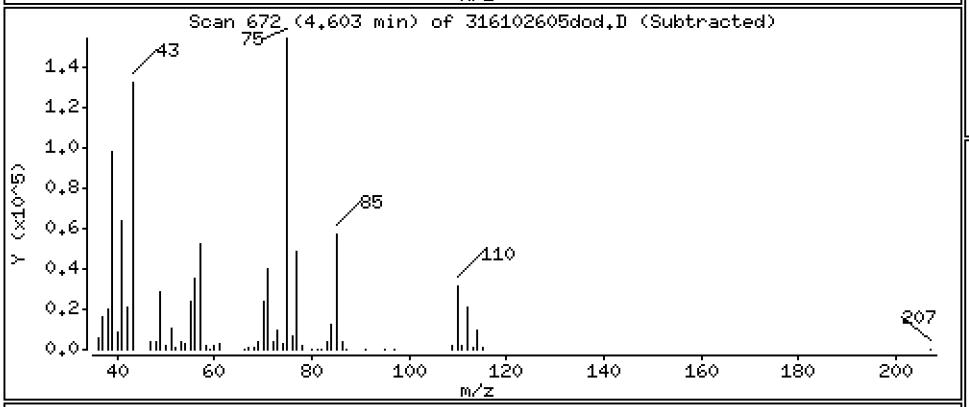
Sample Info: 2429648;;1;3;;LCS;1;

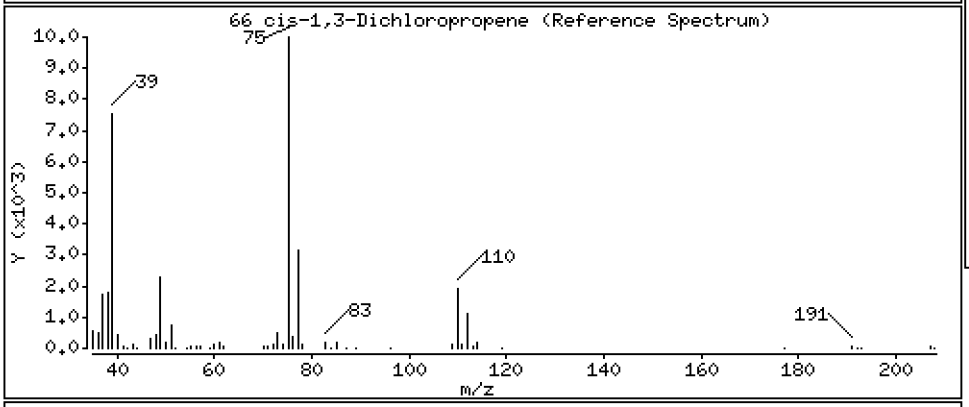
Purge Volume: 5.0 Operator: DD

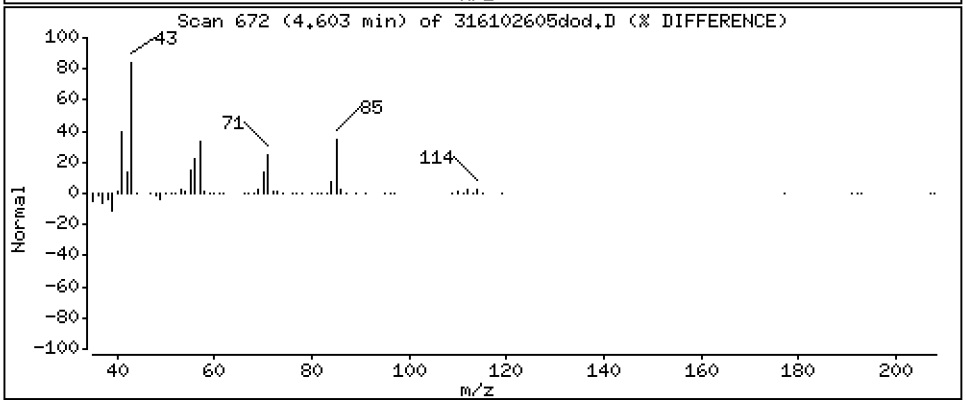
Column phase: DB-VRX Column diameter: 0.25

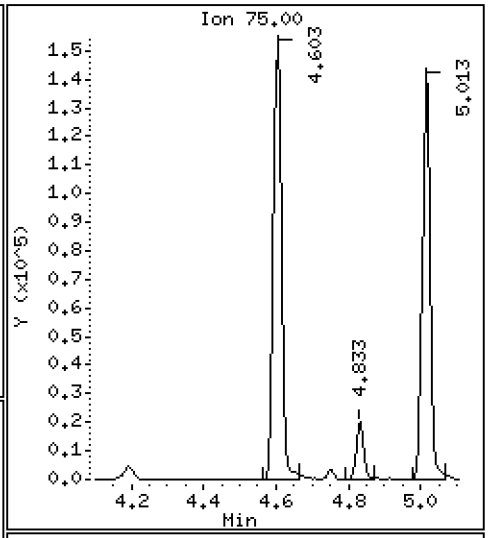
66 cis-1,3-Dichloropropene Concentration: 18.5816 ug/L

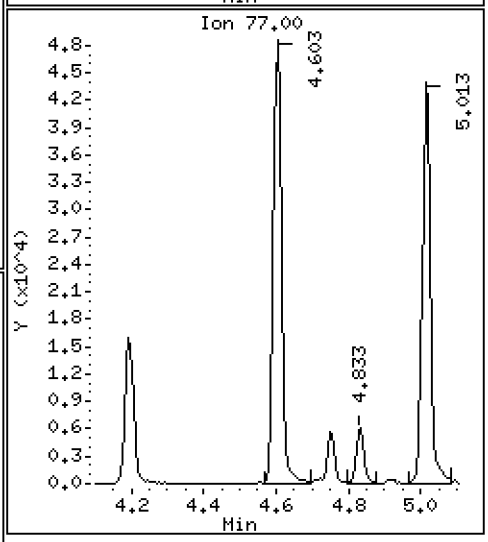












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 76

Date : 26-OCT-2016 10:55

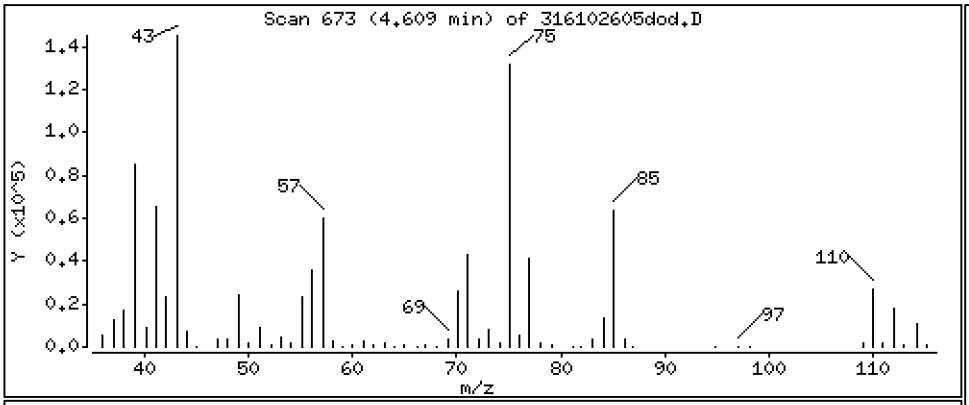
Client ID: LCS for HBN 174350 Instrument: ms03.i

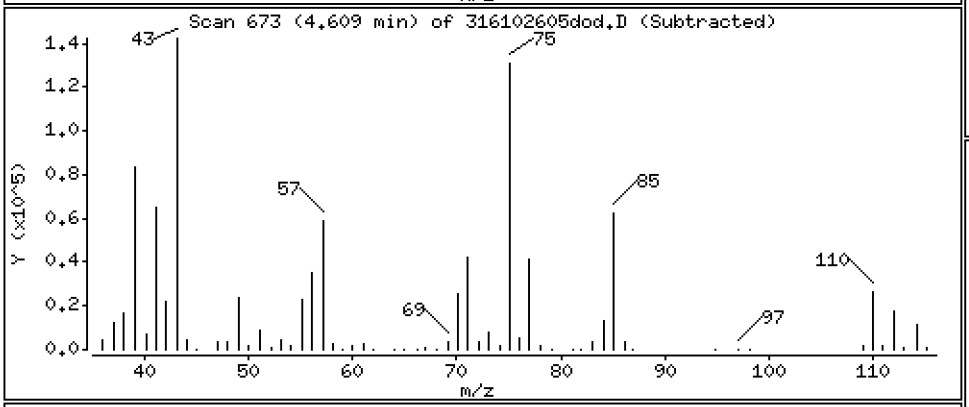
Sample Info: 2429648;;1;3;;LCS;1;

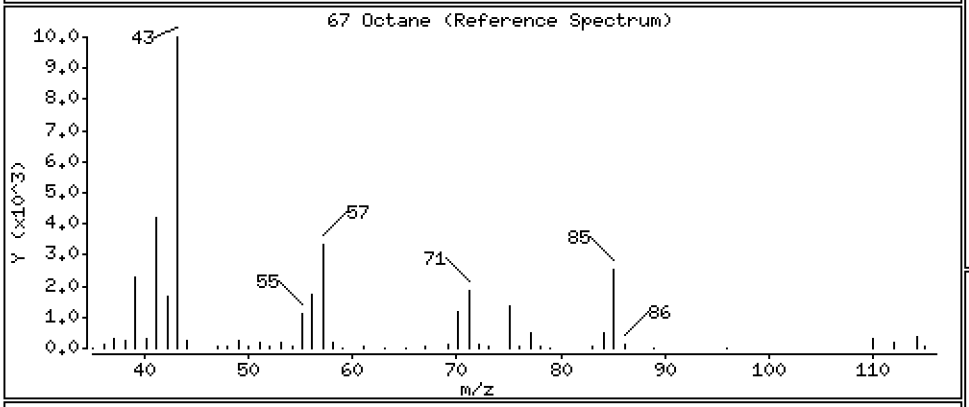
Purge Volume: 5.0 Operator: DD

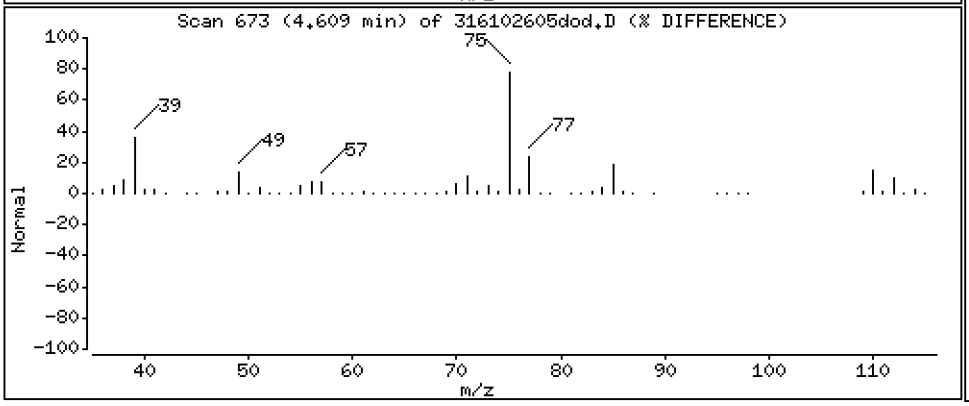
Column phase: DB-VRX Column diameter: 0.25

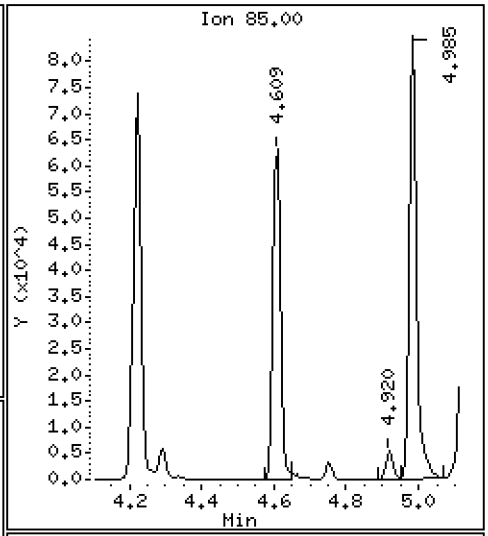
67 Octane Concentration: 23.4110 ug/L

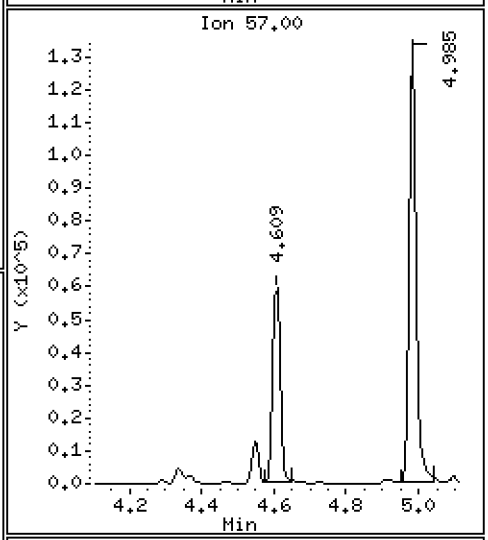


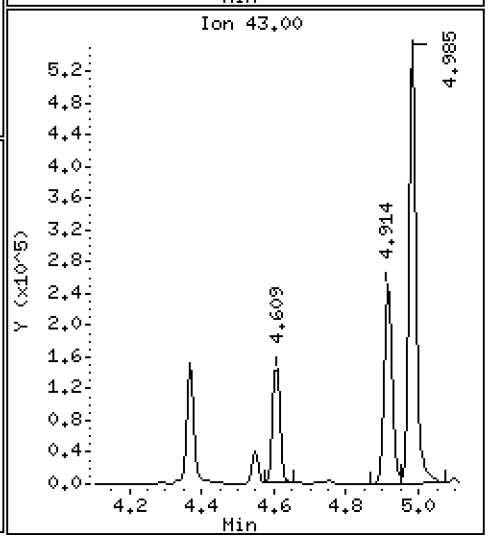












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 77

Date : 26-OCT-2016 10:55

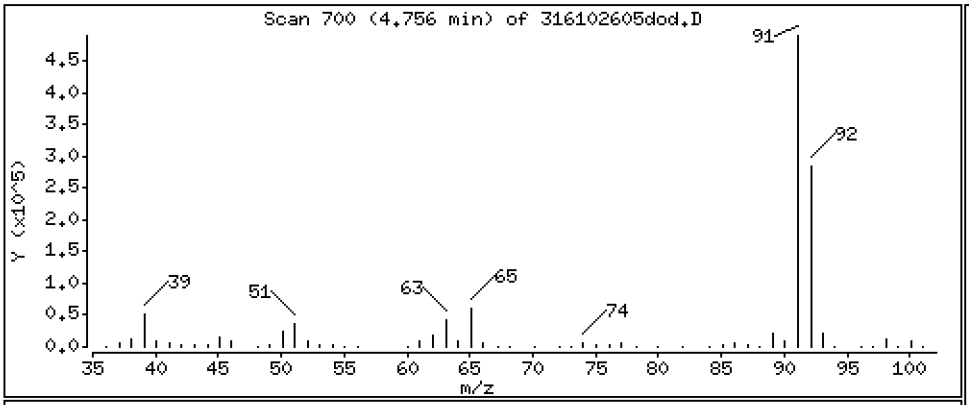
Client ID: LCS for HBN 174350 Instrument: ms03.i

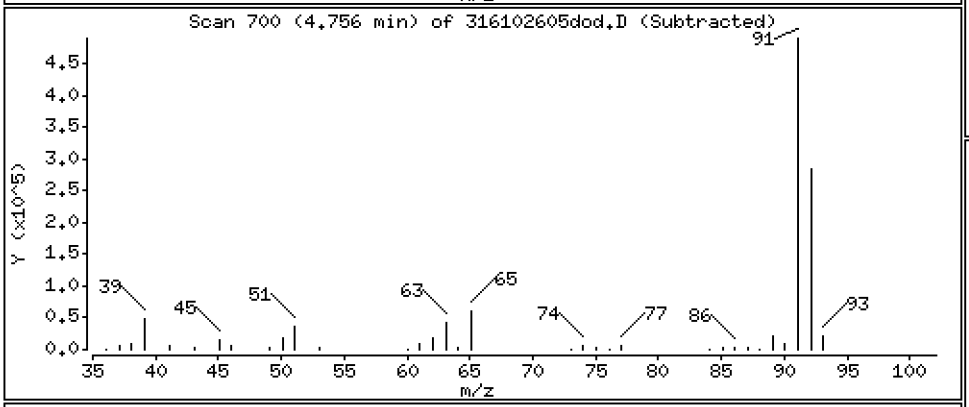
Sample Info: 2429648;;1;3;;LCS;1;

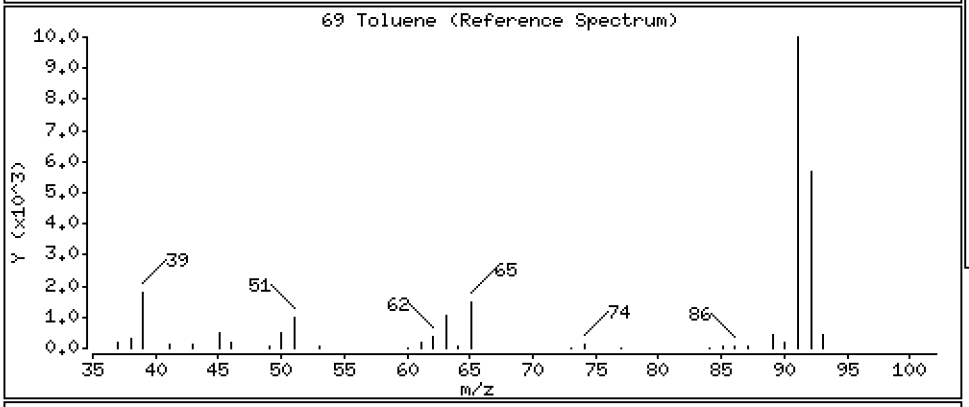
Purge Volume: 5.0 Operator: DD

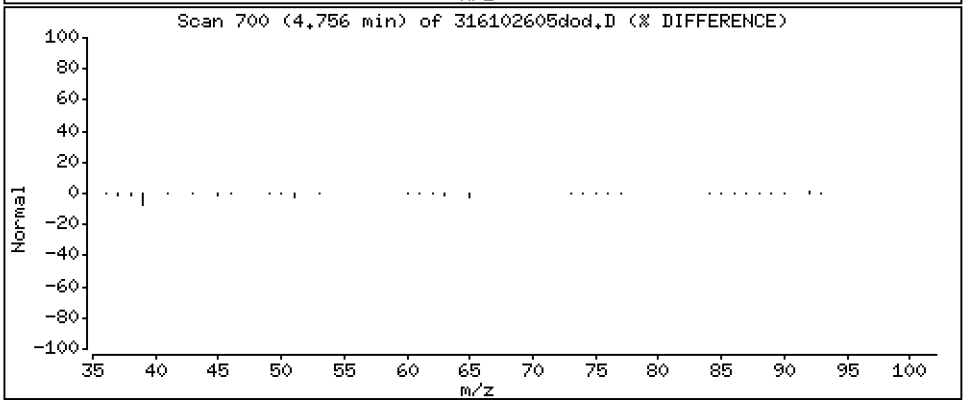
Column phase: DB-VRX Column diameter: 0.25

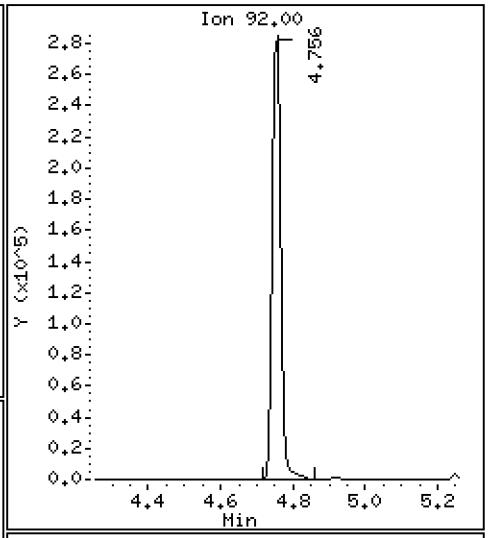
69 Toluene Concentration: 19.7611 ug/L

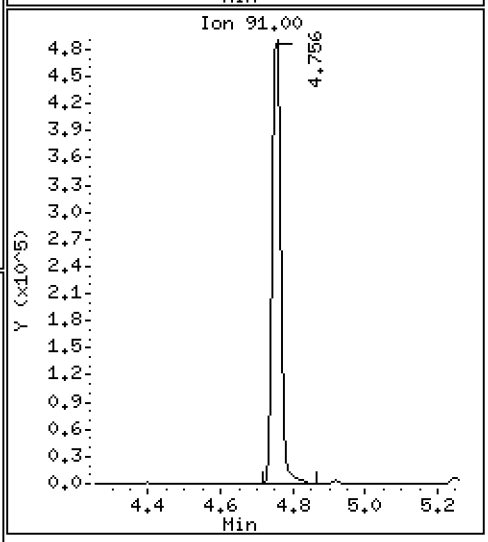












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 78

Date : 26-OCT-2016 10:55

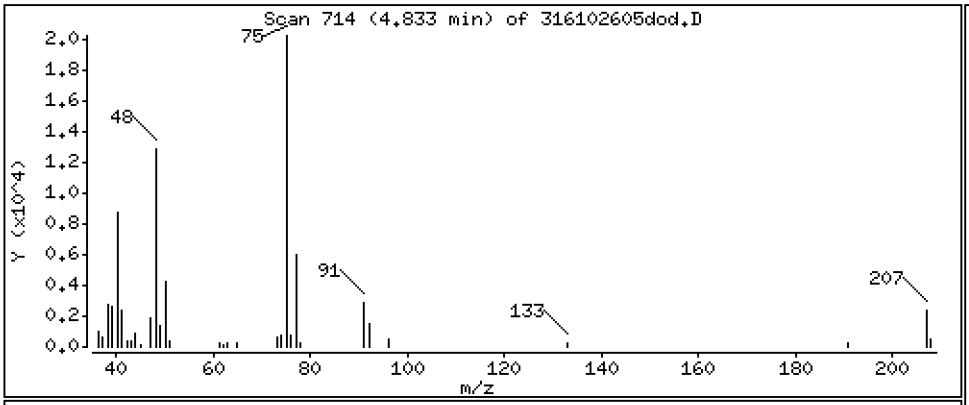
Client ID: LCS for HBN 174350 Instrument: ms03.i

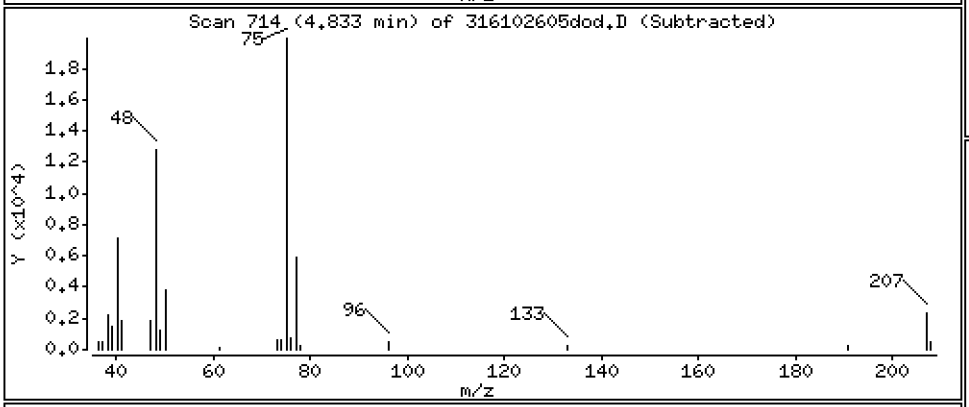
Sample Info: 2429648;;1;3;;LCS;1;

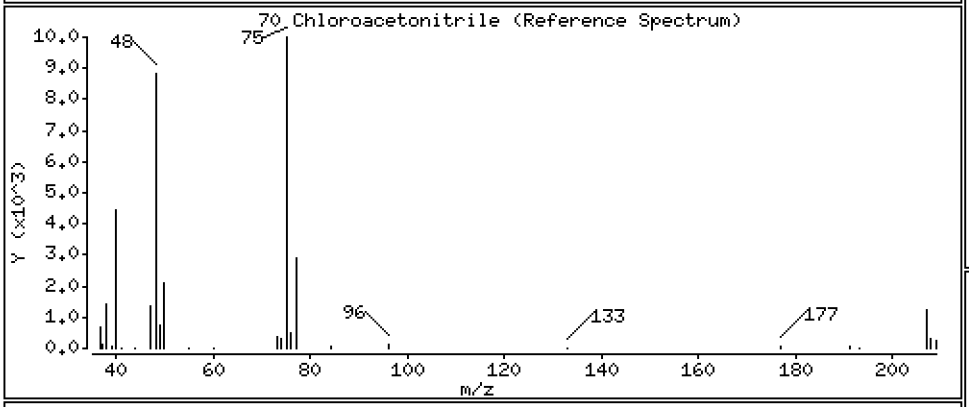
Purge Volume: 5.0 Operator: DD

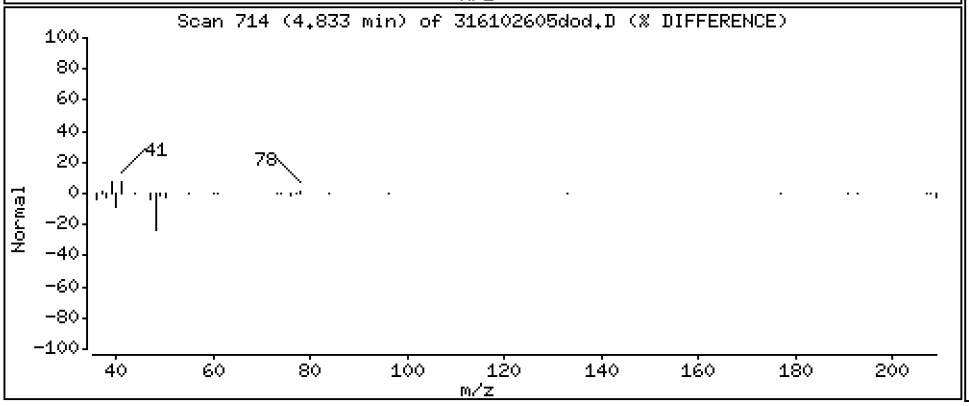
Column phase: DB-VRX Column diameter: 0.25

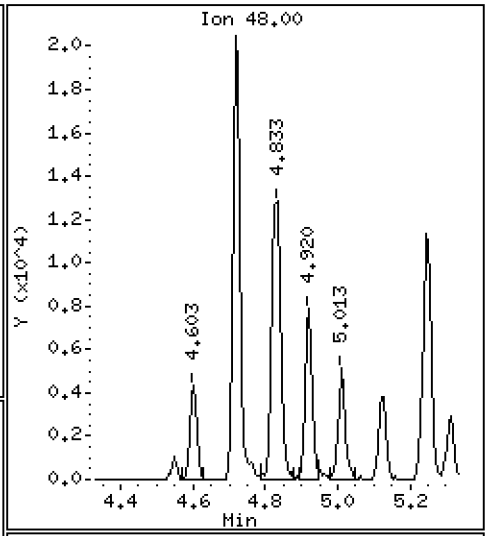
70 Chloroacetonitrile Concentration: 109.585 ug/L

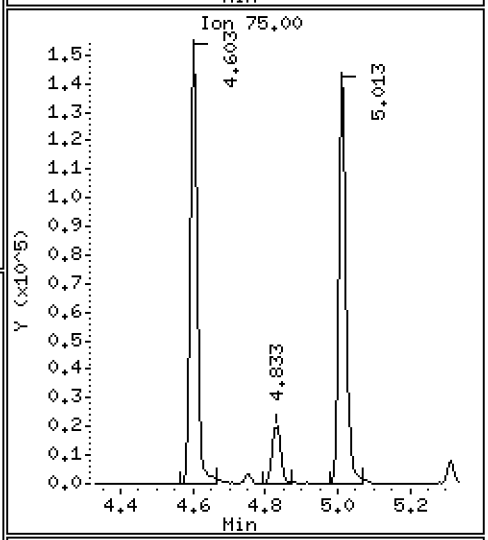


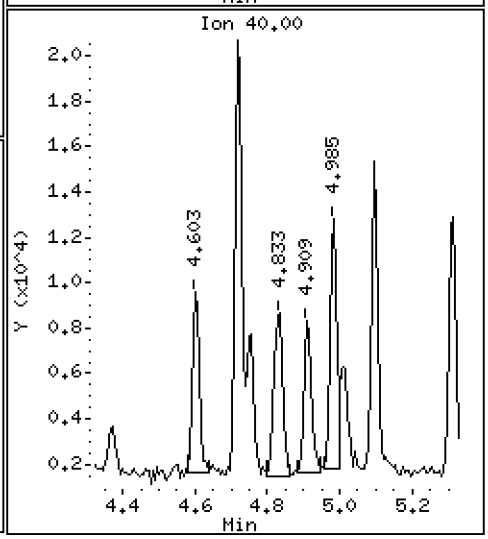












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 79

Date : 26-OCT-2016 10:55

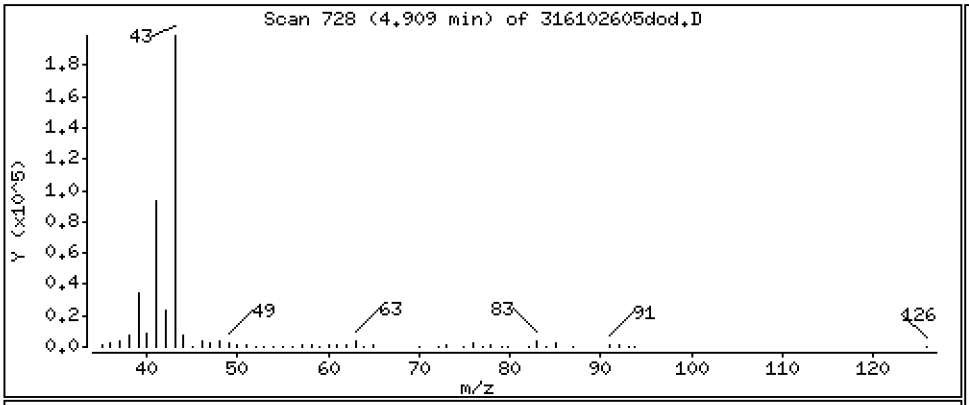
Client ID: LCS for HBN 174350 Instrument: ms03.i

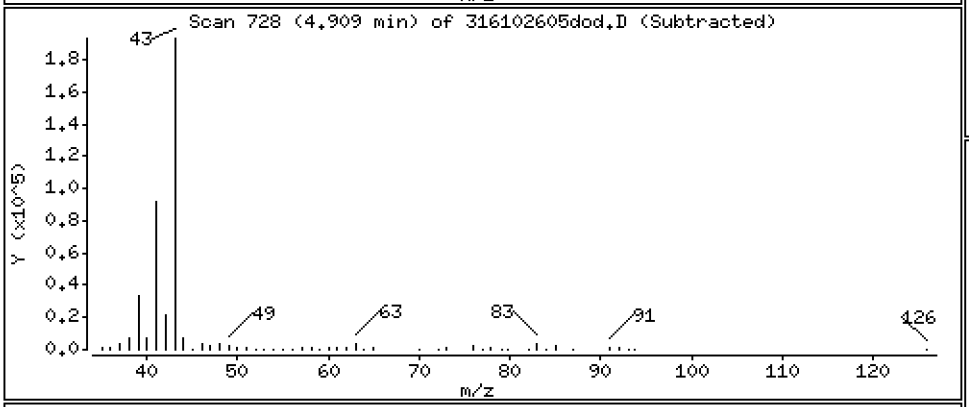
Sample Info: 2429648;;1;3;;LCS;1;

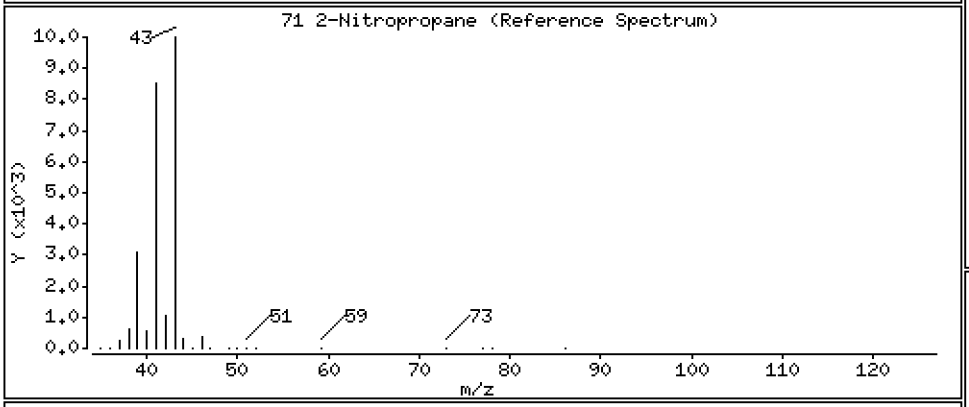
Purge Volume: 5.0 Operator: DD

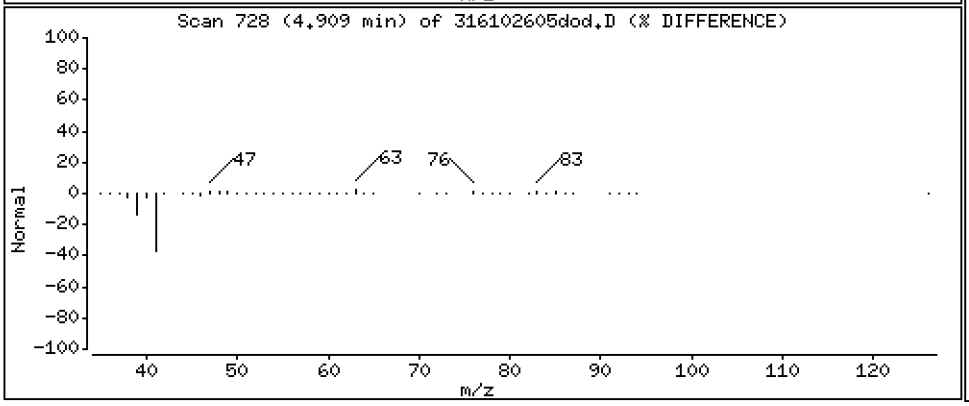
Column phase: DB-VRX Column diameter: 0.25

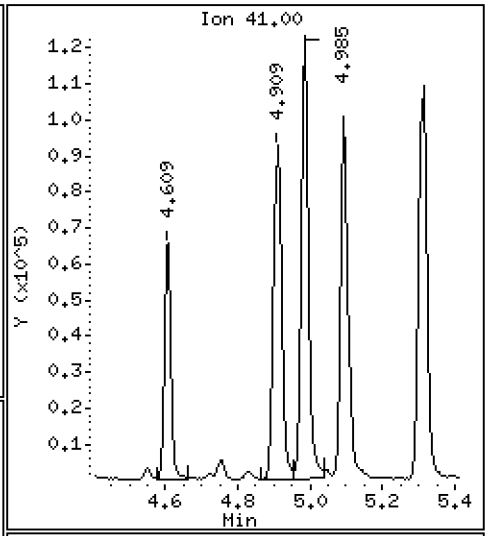
71 2-Nitropropane Concentration: 91.9305 ug/L

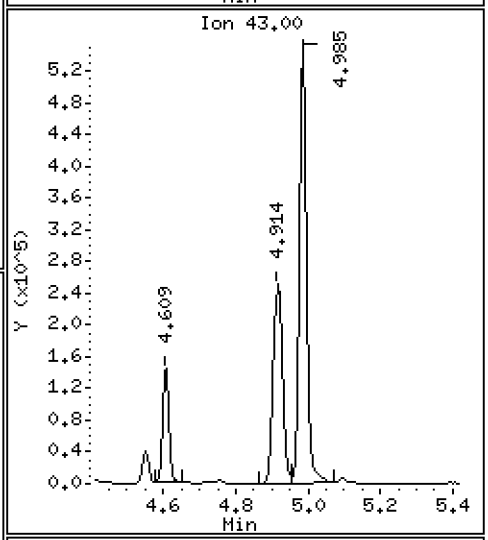


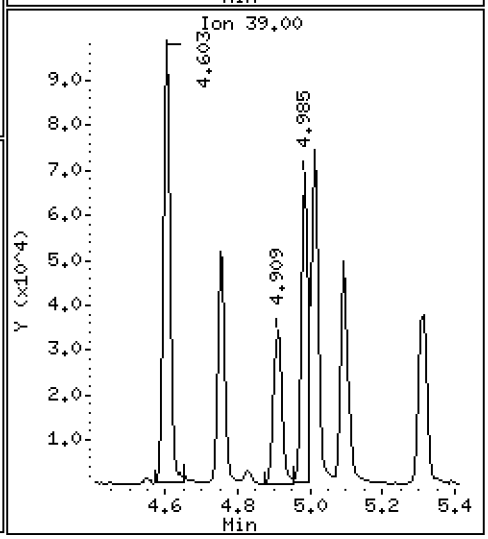












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 80

Date : 26-OCT-2016 10:55

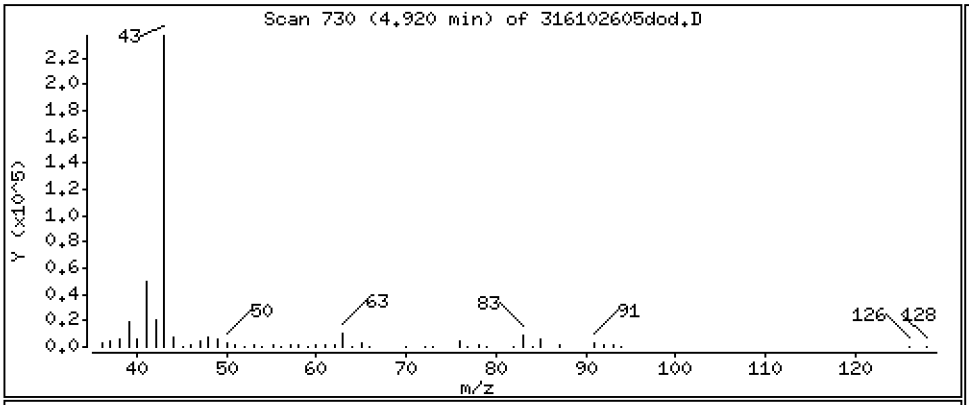
Client ID: LCS for HBN 174350 Instrument: ms03.i

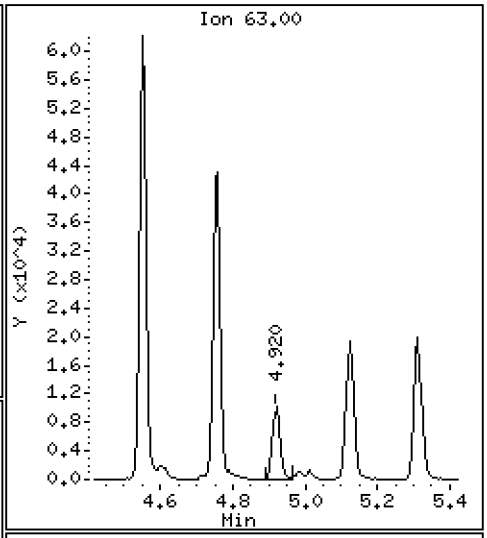
Sample Info: 2429648;;1;3;;LCS;1;

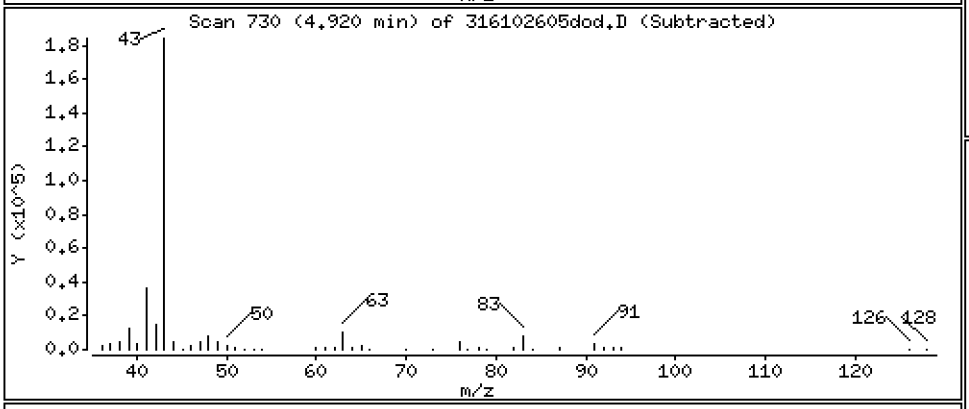
Purge Volume: 5.0 Operator: DD

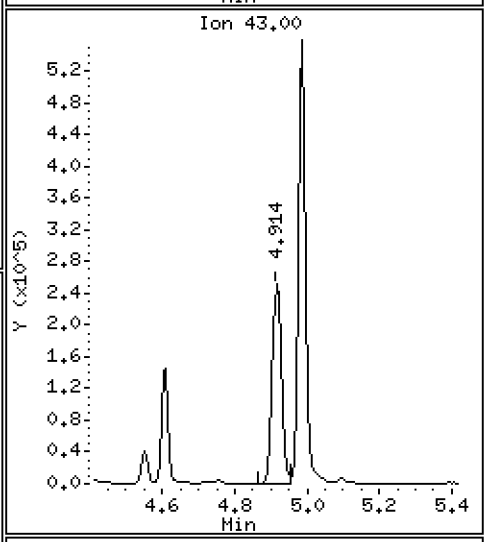
Column phase: DB-VRX Column diameter: 0.25

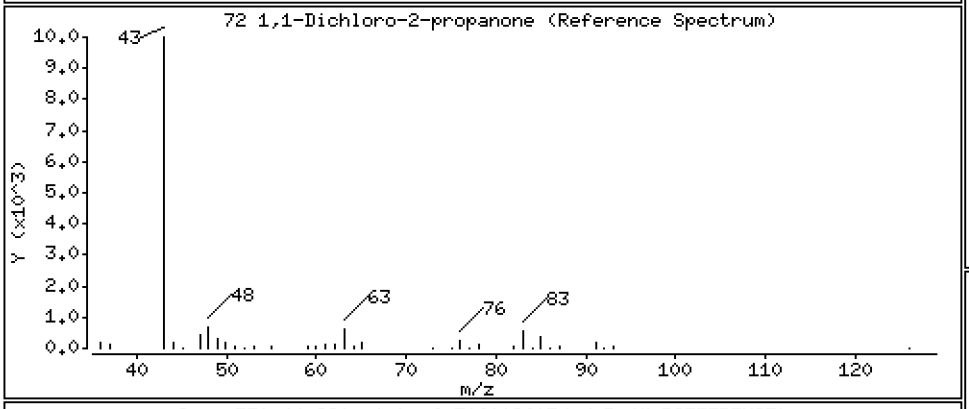
72 1,1-Dichloro-2-propanone Concentration: 99.6495 ug/L

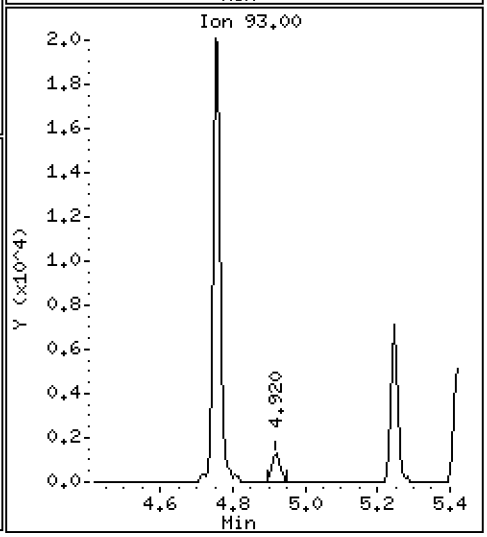


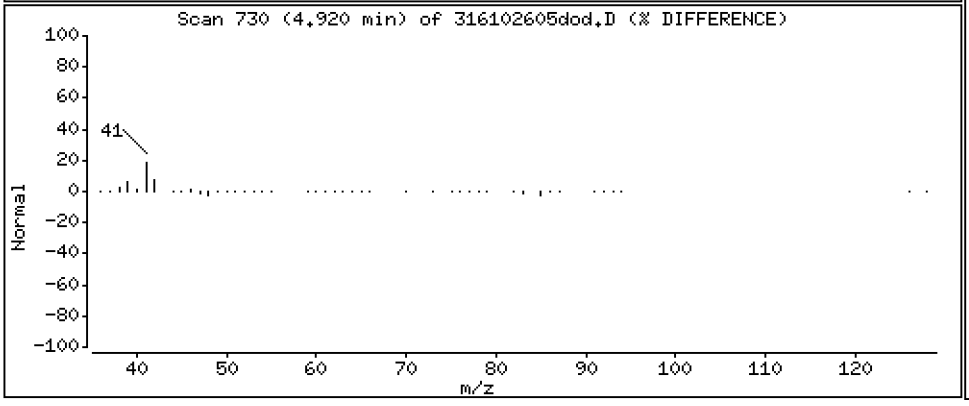












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 81

Date : 26-OCT-2016 10:55

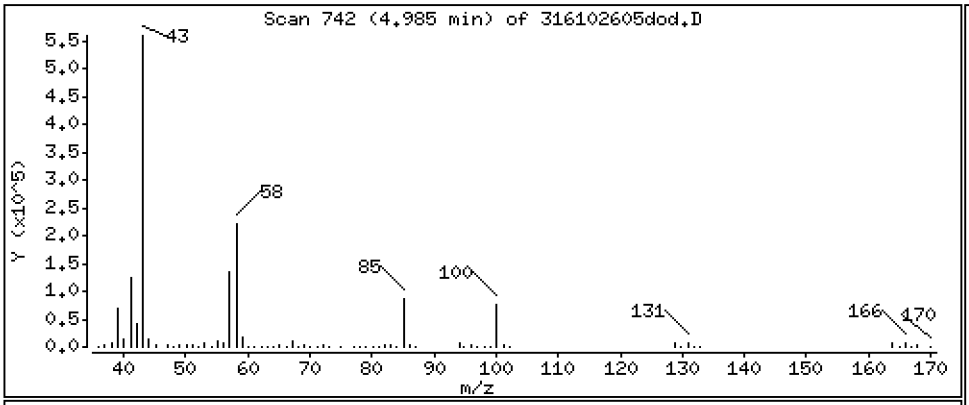
Client ID: LCS for HBN 174350 Instrument: ms03.i

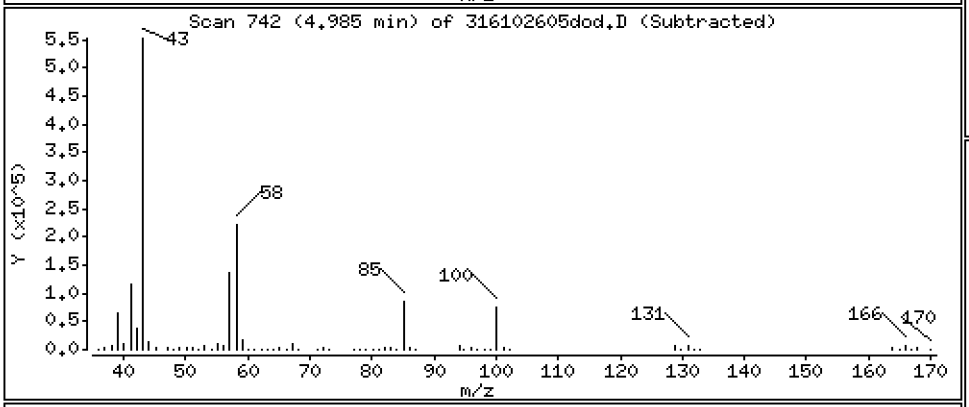
Sample Info: 2429648;;1;3;;LCS;1;

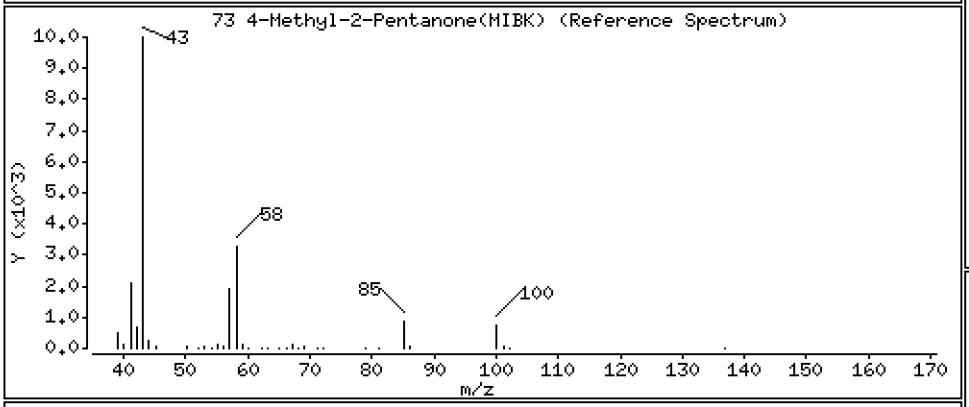
Purge Volume: 5.0 Operator: DD

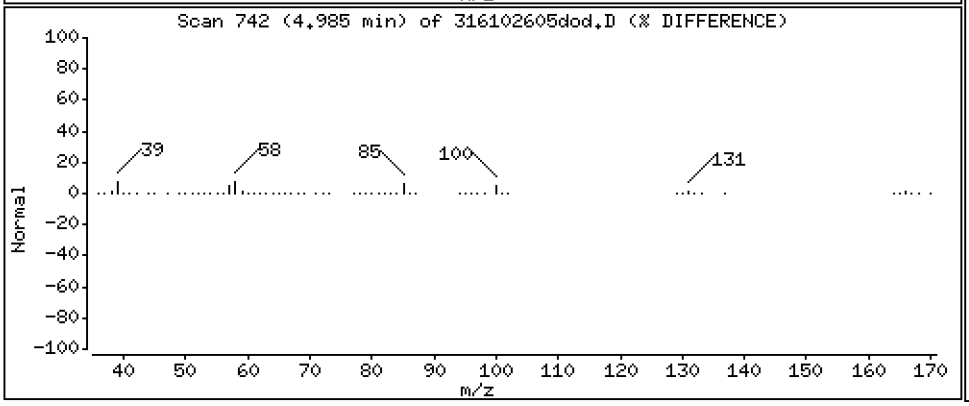
Column phase: DB-VRX Column diameter: 0.25

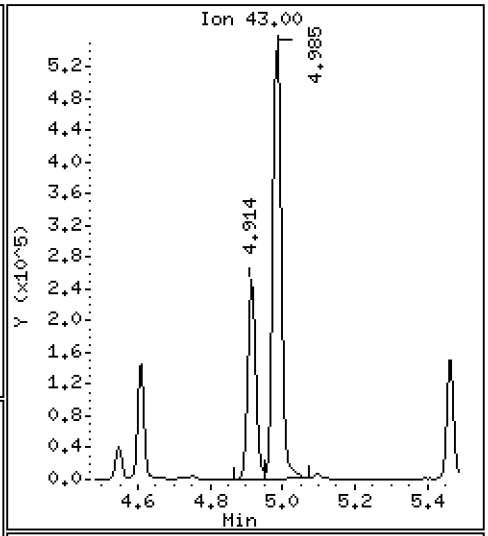
73 4-Methyl-2-Pentanone(MIBK) Concentration: 113.161 ug/L

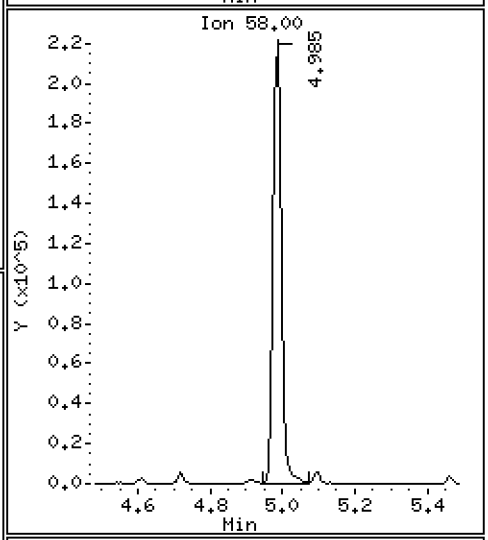


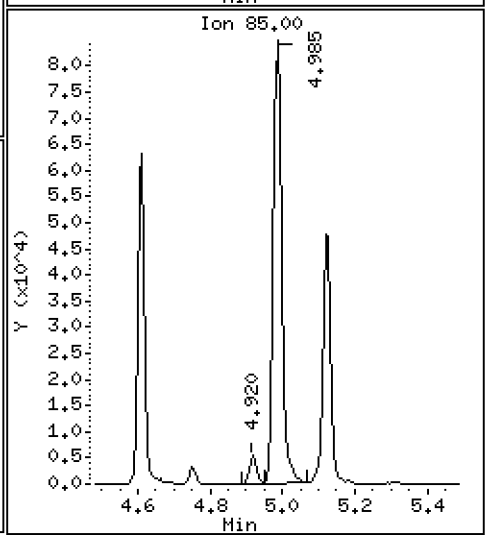












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 82

Date : 26-OCT-2016 10:55

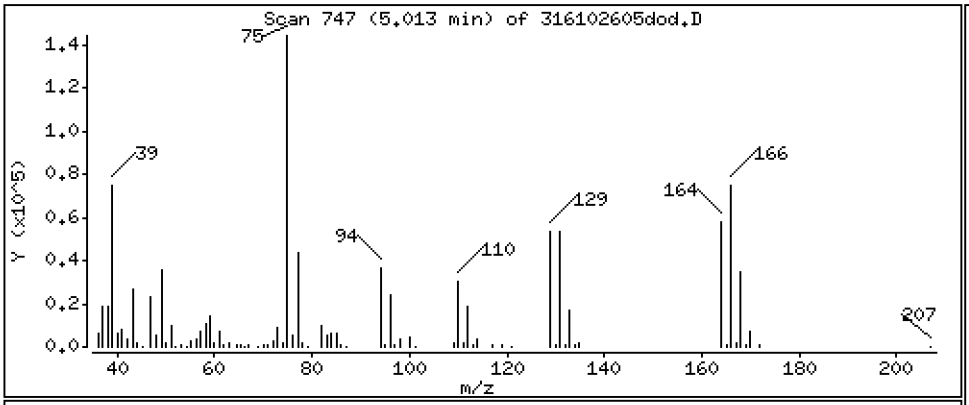
Client ID: LCS for HBN 174350 Instrument: ms03.i

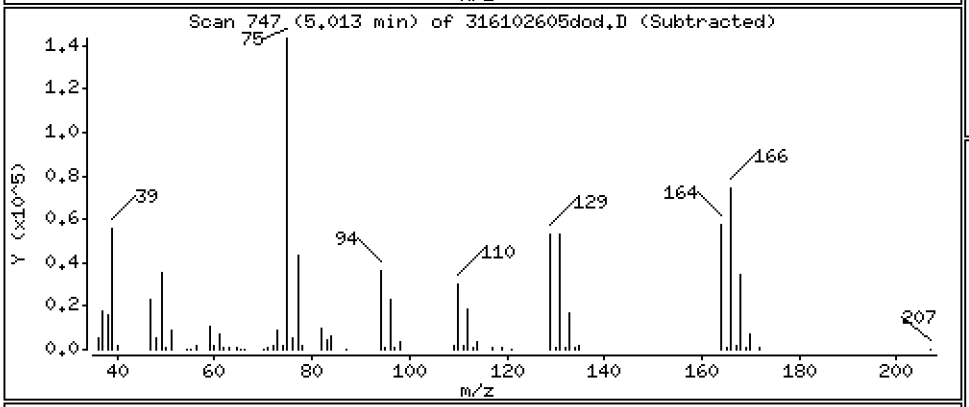
Sample Info: 2429648;;1;3;;LCS;1;

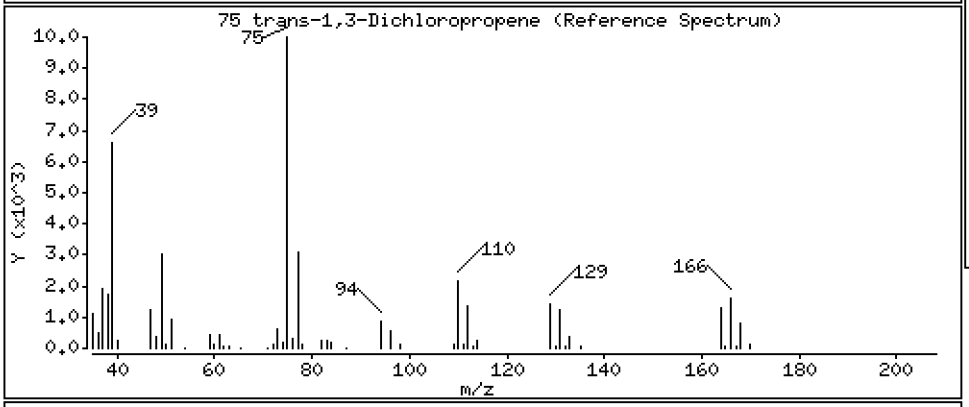
Purge Volume: 5.0 Operator: DD

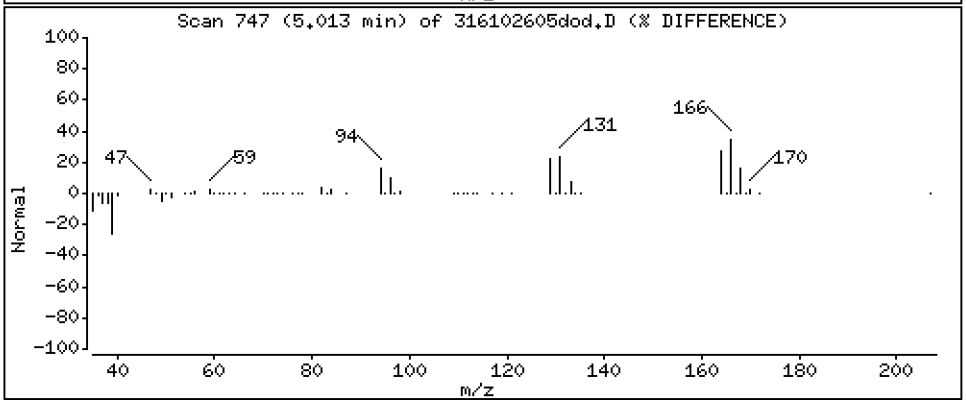
Column phase: DB-VRX Column diameter: 0.25

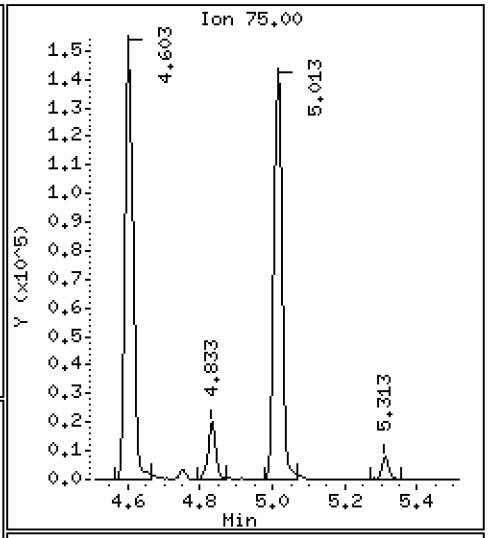
75 trans-1,3-Dichloropropene Concentration: 19.7108 ug/L

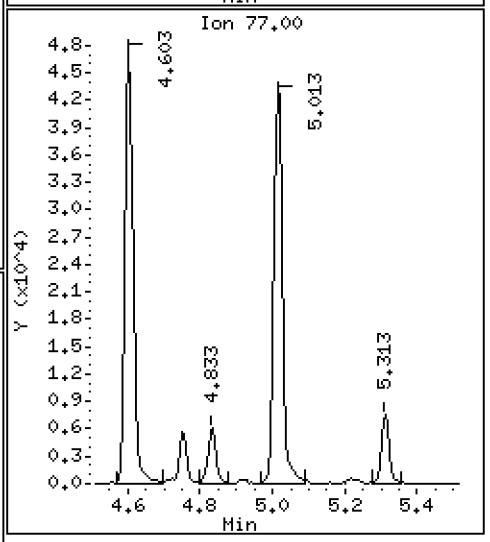












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 83

Date : 26-OCT-2016 10:55

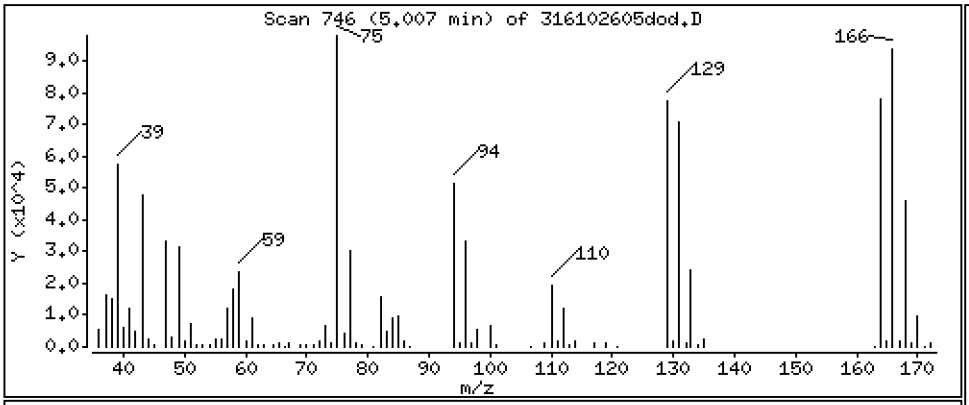
Client ID: LCS for HBN 174350 Instrument: ms03.i

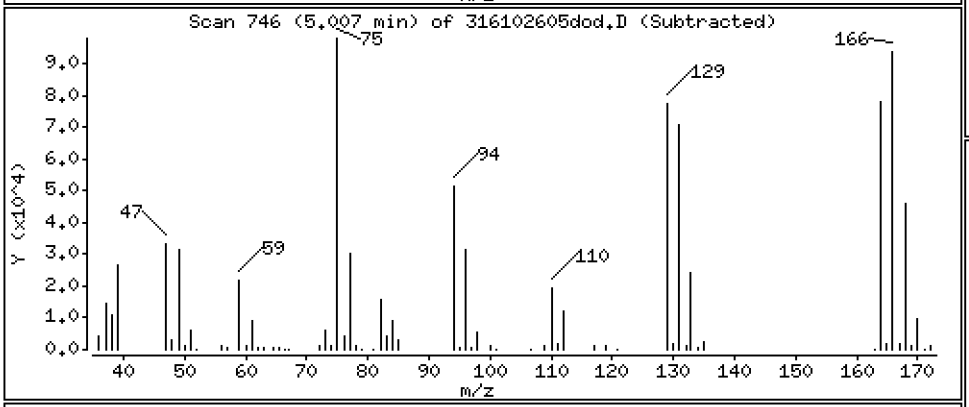
Sample Info: 2429648;;1;3;;LCS;1;

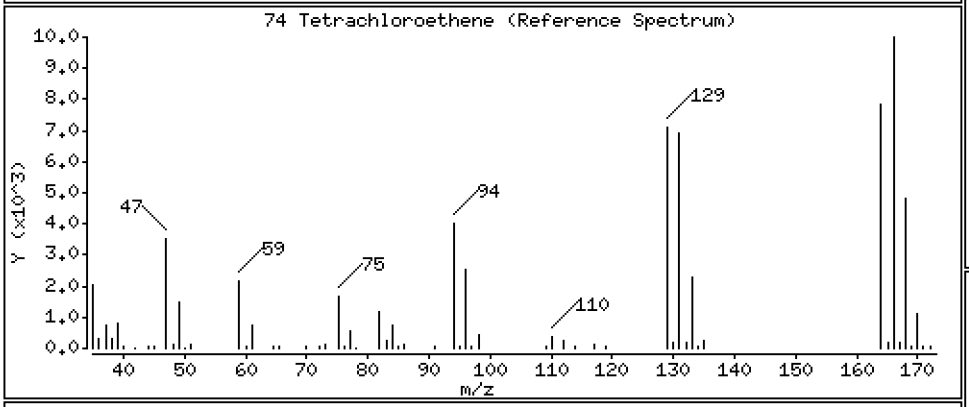
Purge Volume: 5.0 Operator: DD

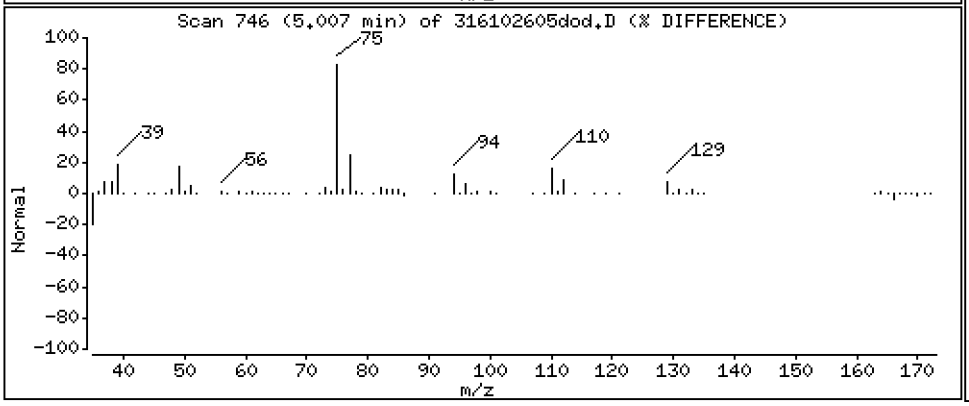
Column phase: DB-VRX Column diameter: 0.25

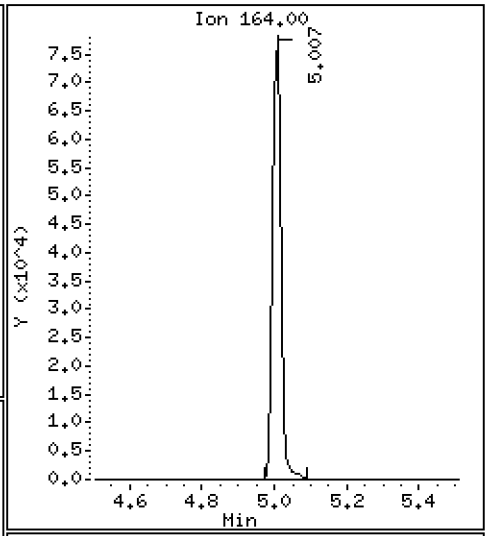
74 Tetrachloroethene Concentration: 22.5158 ug/L

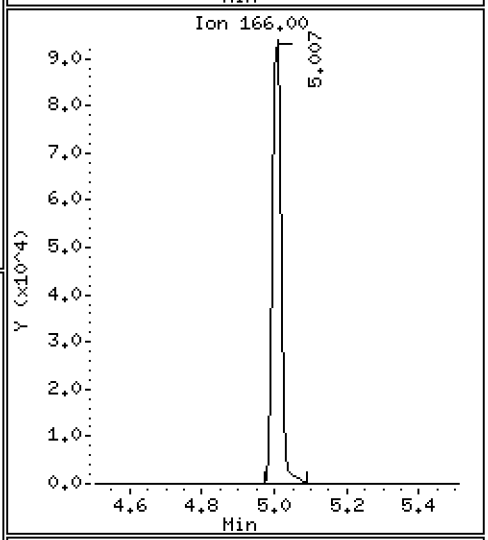


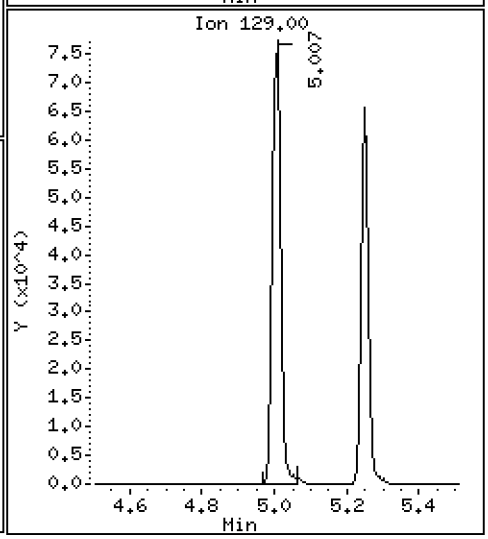












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 84

Date : 26-OCT-2016 10:55

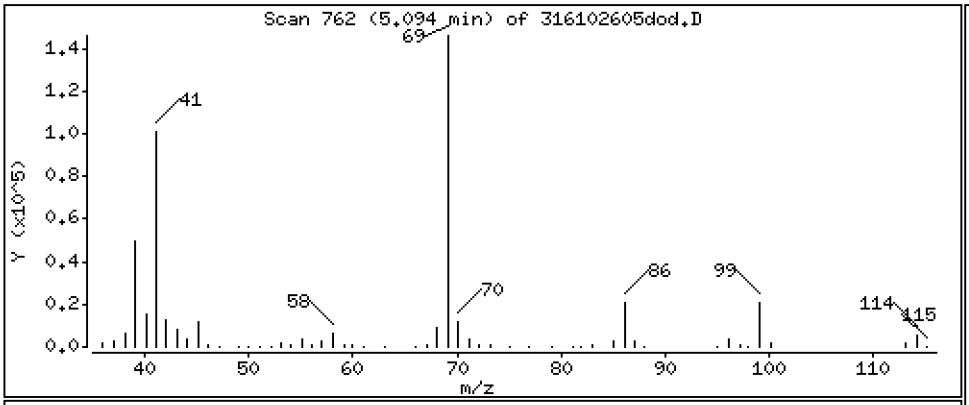
Client ID: LCS for HBN 174350 Instrument: ms03.i

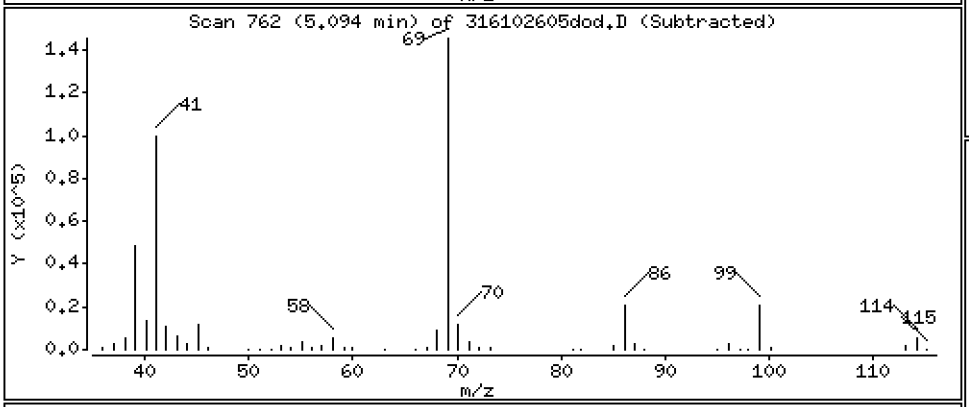
Sample Info: 2429648;;1;3;;LCS;1;

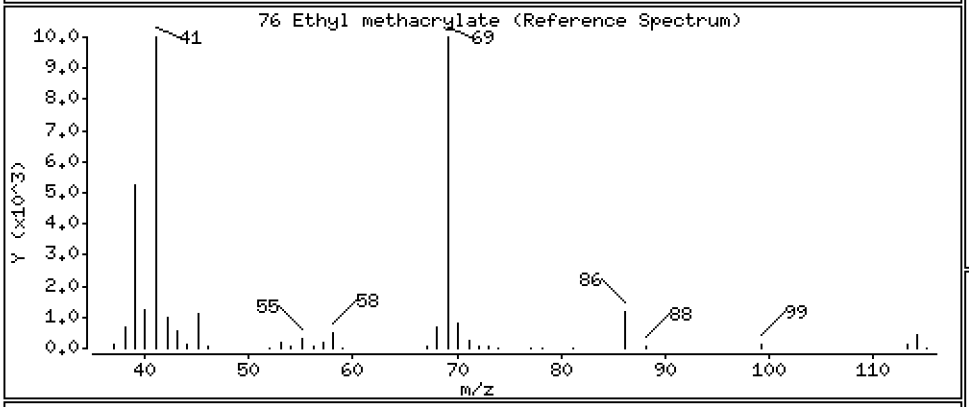
Purge Volume: 5.0 Operator: DD

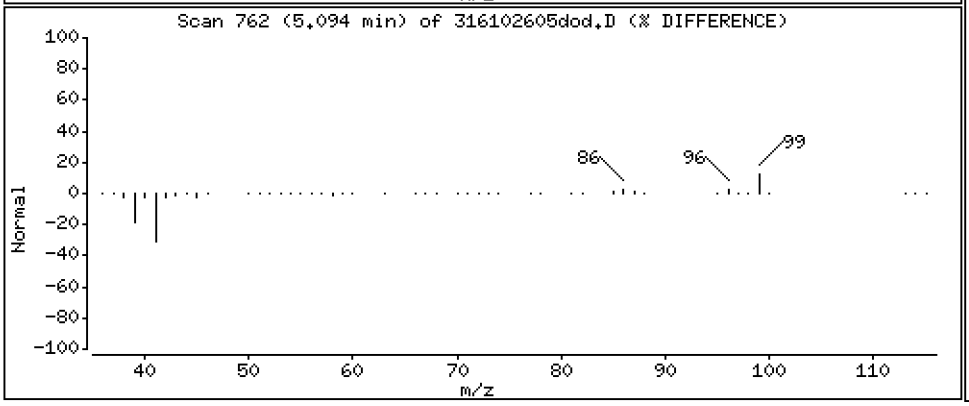
Column phase: DB-VRX Column diameter: 0.25

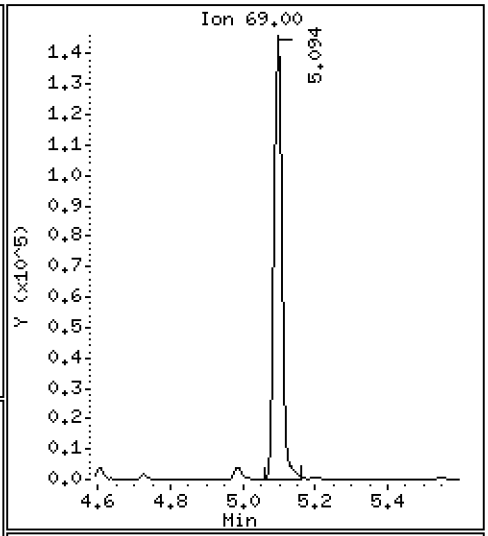
76 Ethyl methacrylate Concentration: 21.3046 ug/L

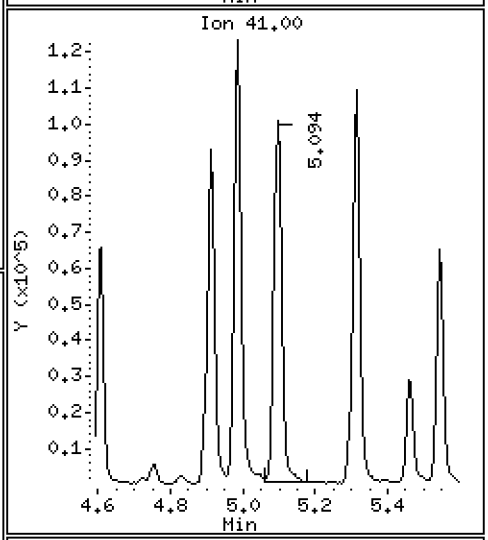


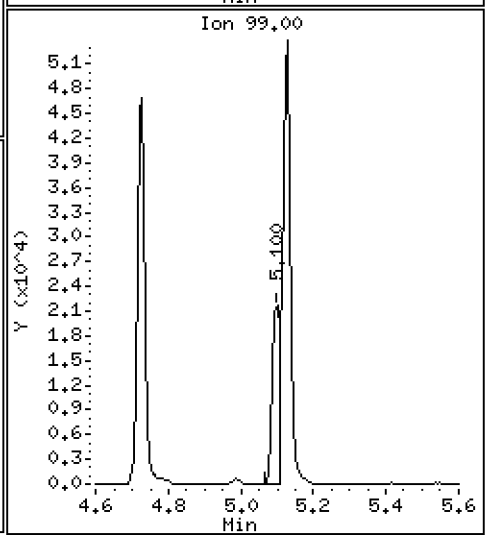












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 85

Date : 26-OCT-2016 10:55

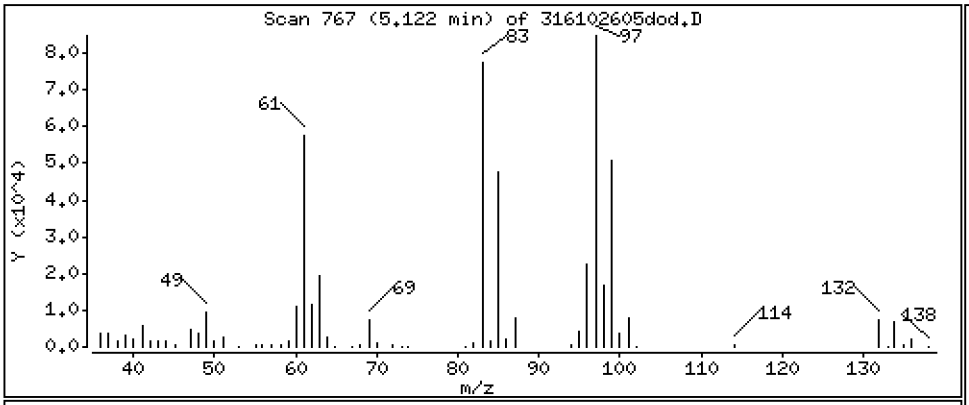
Client ID: LCS for HBN 174350 Instrument: ms03.i

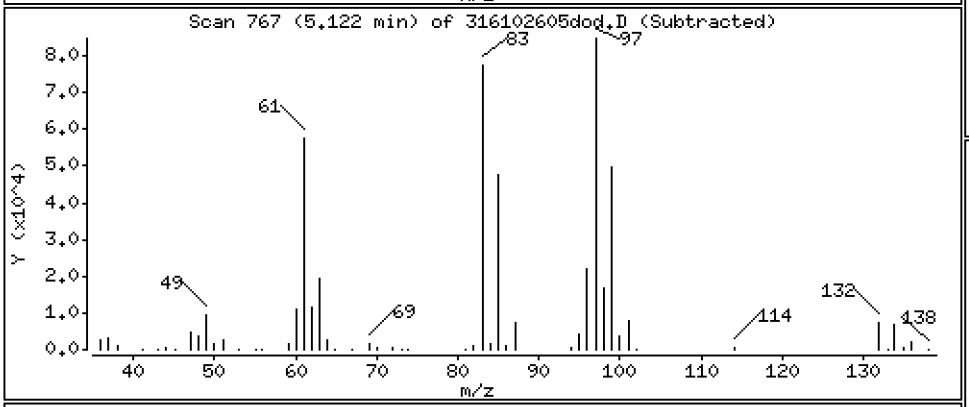
Sample Info: 2429648;;1;3;;LCS;1;

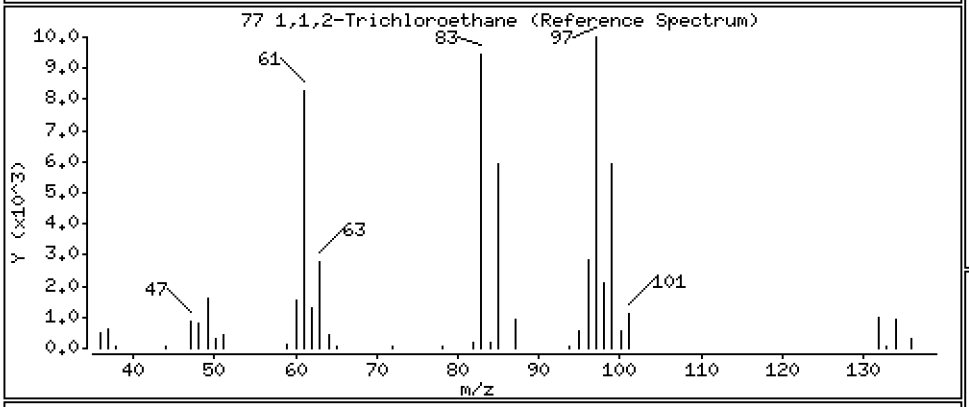
Purge Volume: 5.0 Operator: DD

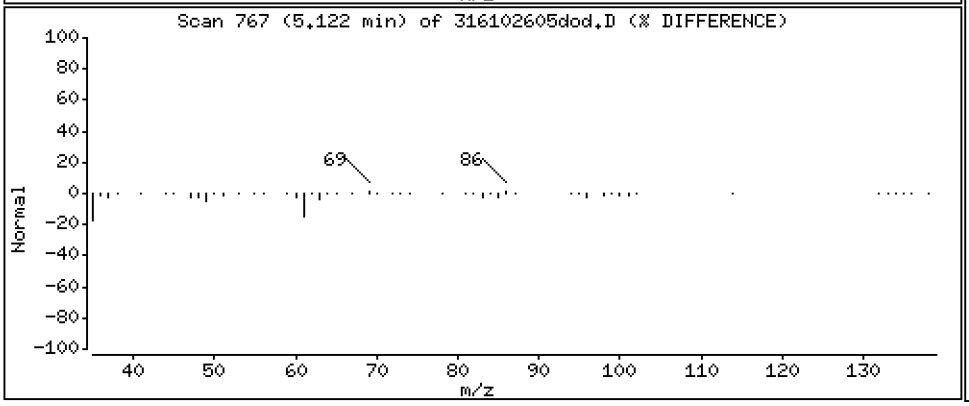
Column phase: DB-VRX Column diameter: 0.25

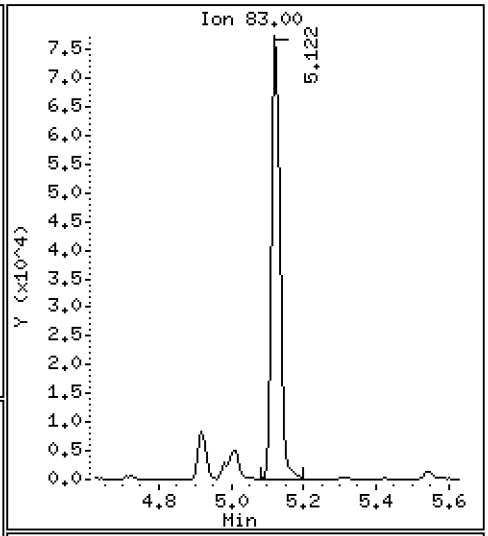
77 1,1,2-Trichloroethane Concentration: 19.0434 ug/L

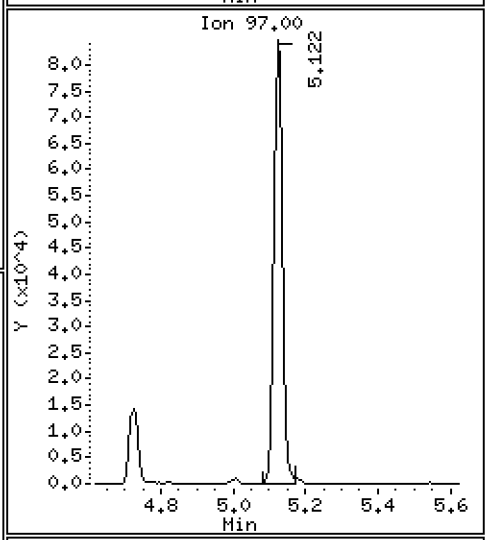


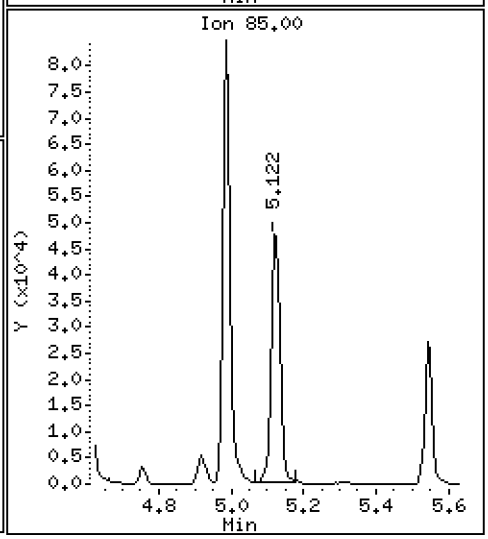












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 86

Date : 26-OCT-2016 10:55

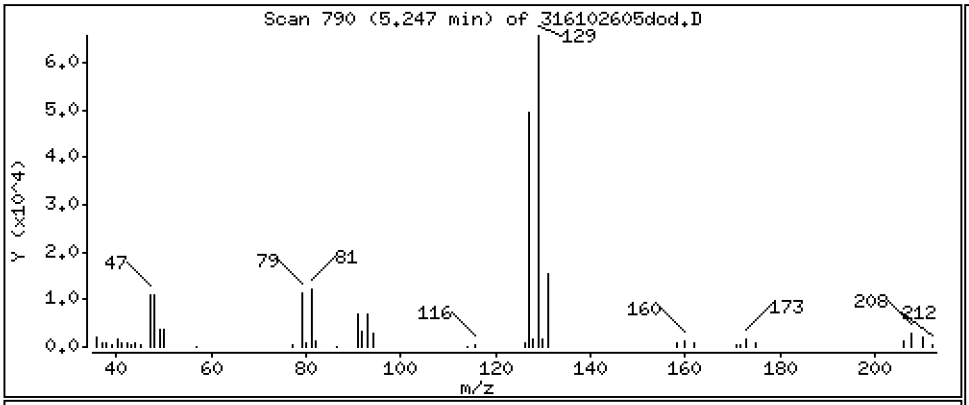
Client ID: LCS for HBN 174350 Instrument: ms03.i

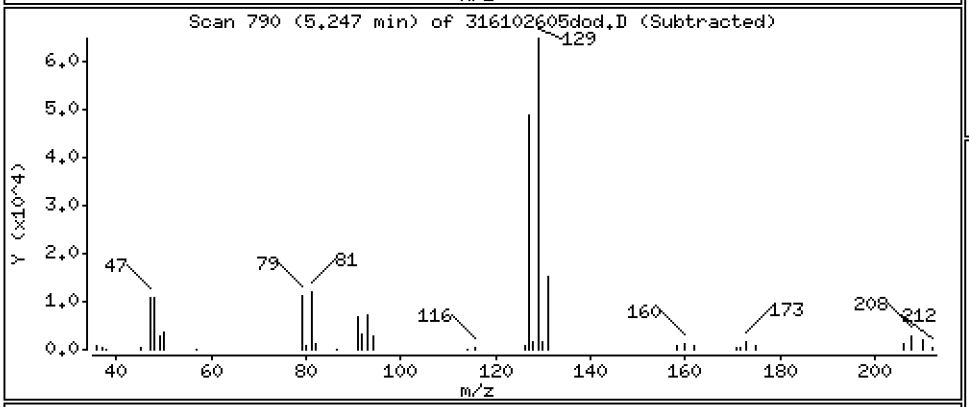
Sample Info: 2429648;;1;3;;LCS;1;

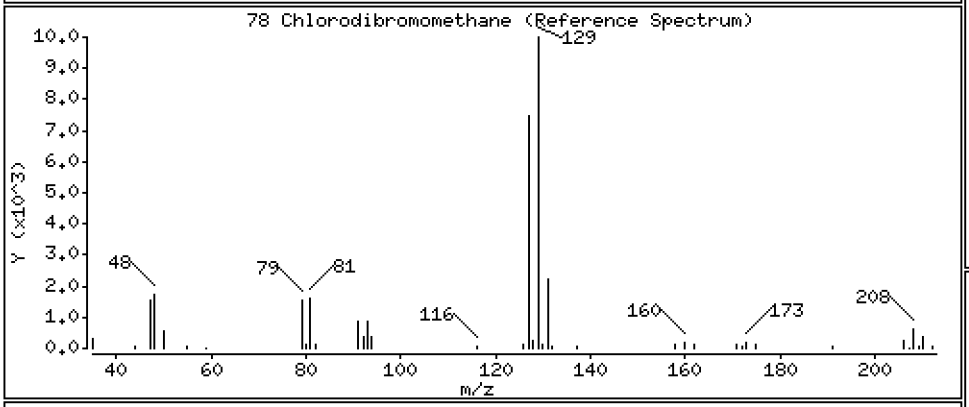
Purge Volume: 5.0 Operator: DD

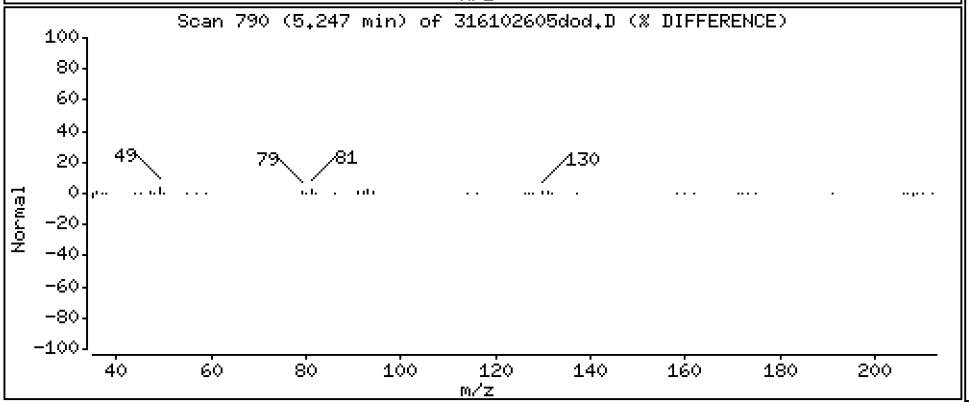
Column phase: DB-VRX Column diameter: 0.25

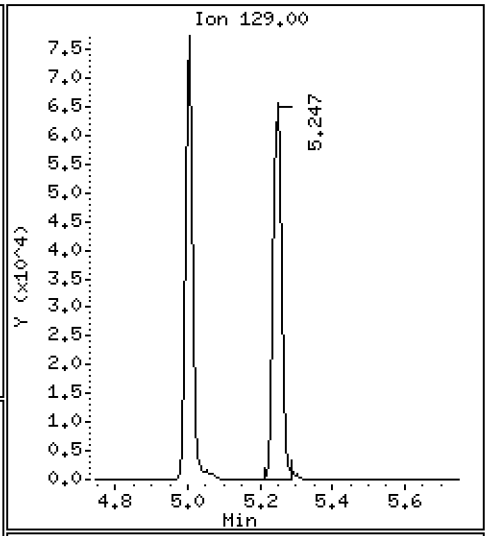
78 Chlorodibromomethane Concentration: 17.6151 ug/L

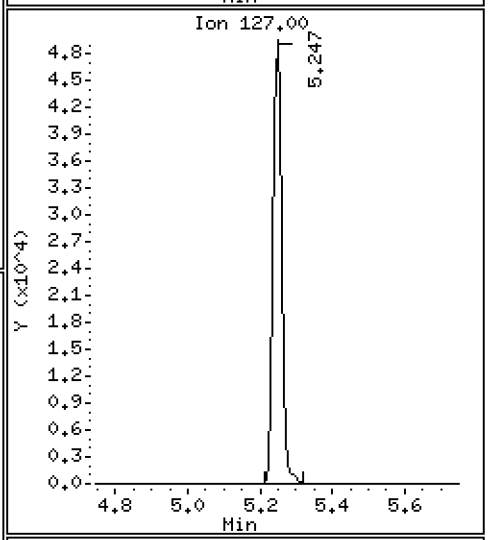


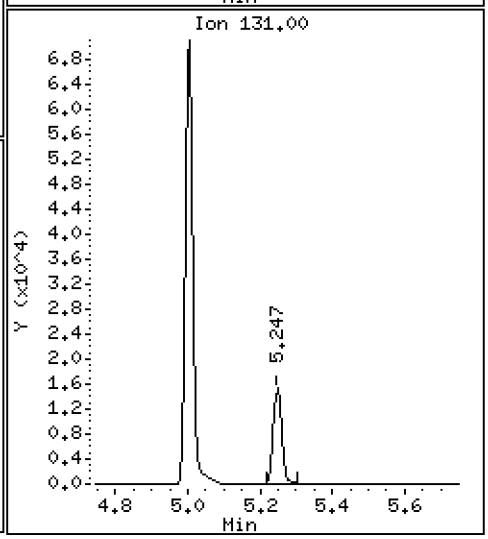












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 87

Date : 26-OCT-2016 10:55

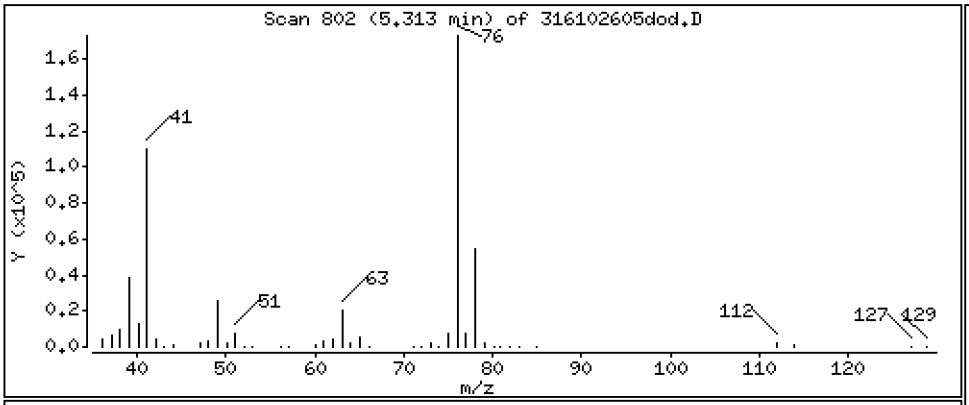
Client ID: LCS for HBN 174350 Instrument: ms03.i

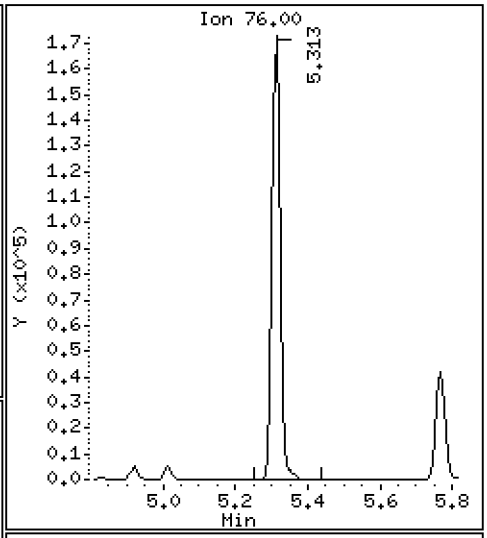
Sample Info: 2429648;;1;3;;LCS;1;

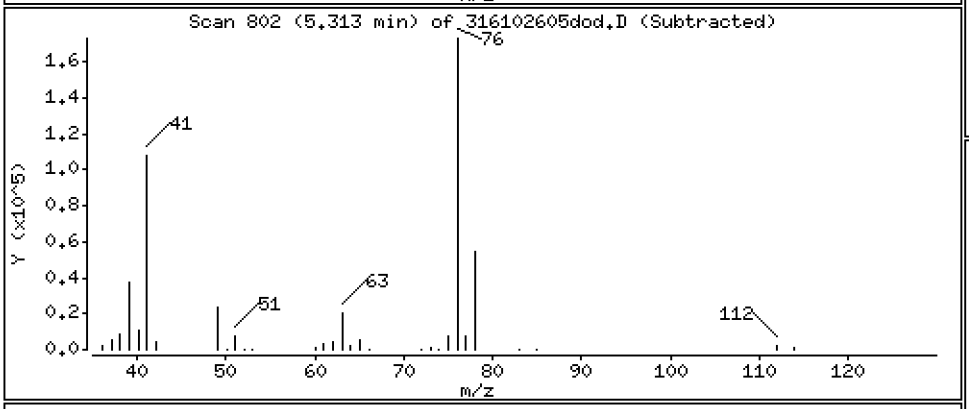
Purge Volume: 5.0 Operator: DD

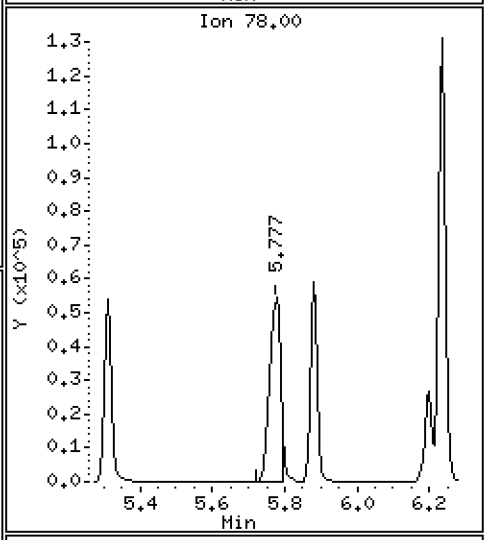
Column phase: DB-VRX Column diameter: 0.25

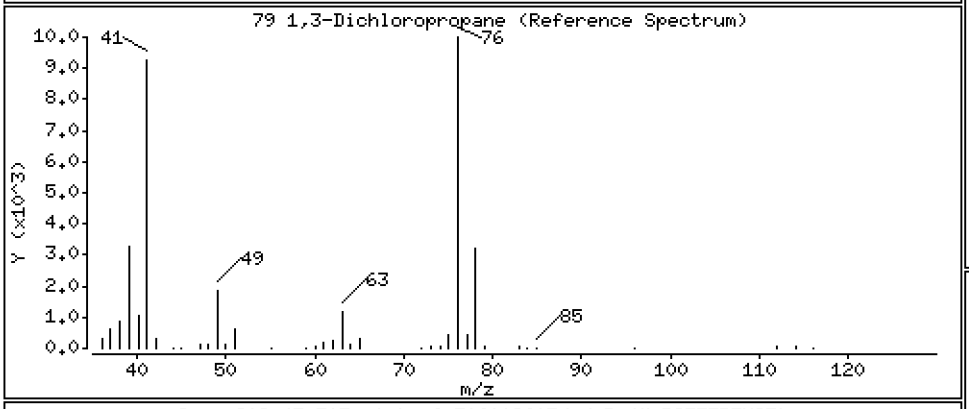
79 1,3-Dichloropropane Concentration: 18.8214 ug/L

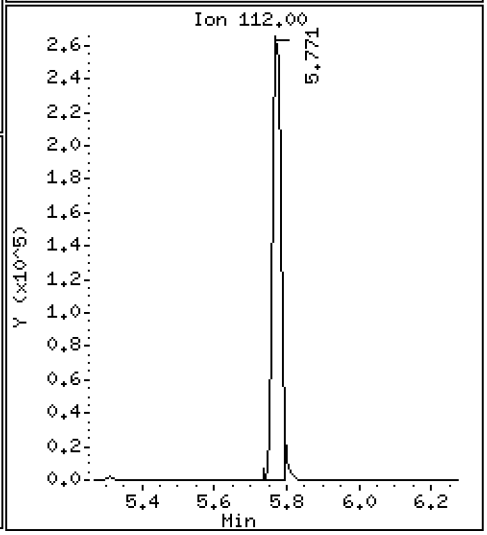


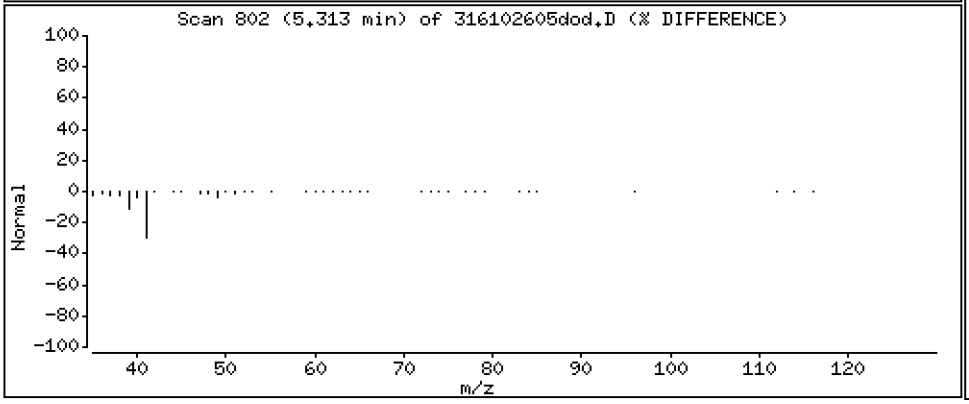












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 88

Date : 26-OCT-2016 10:55

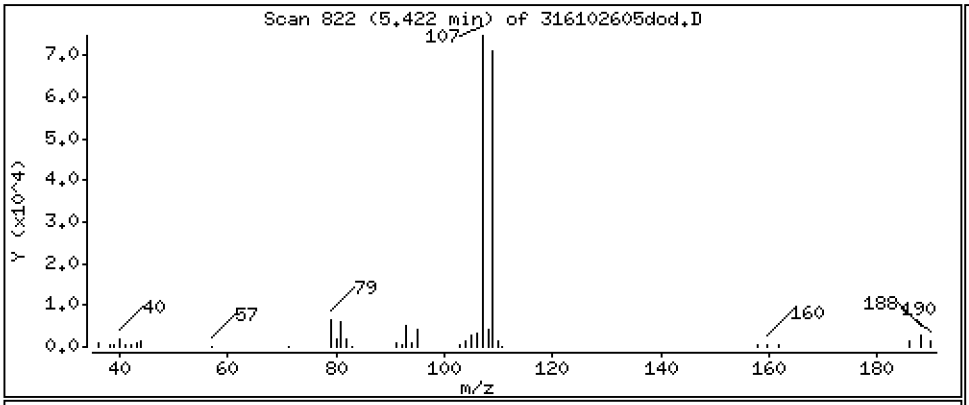
Client ID: LCS for HBN 174350 Instrument: ms03.i

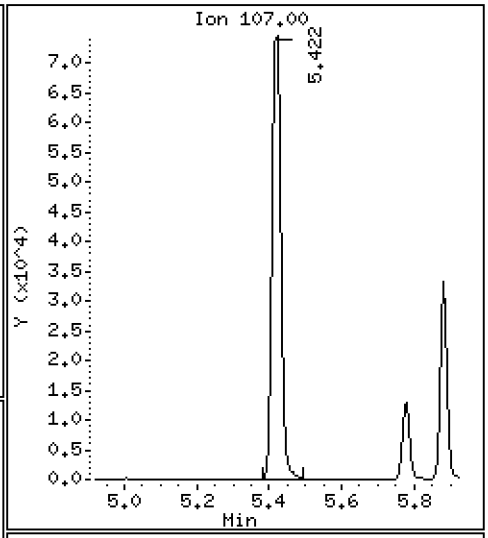
Sample Info: 2429648;;1;3;;LCS;1;

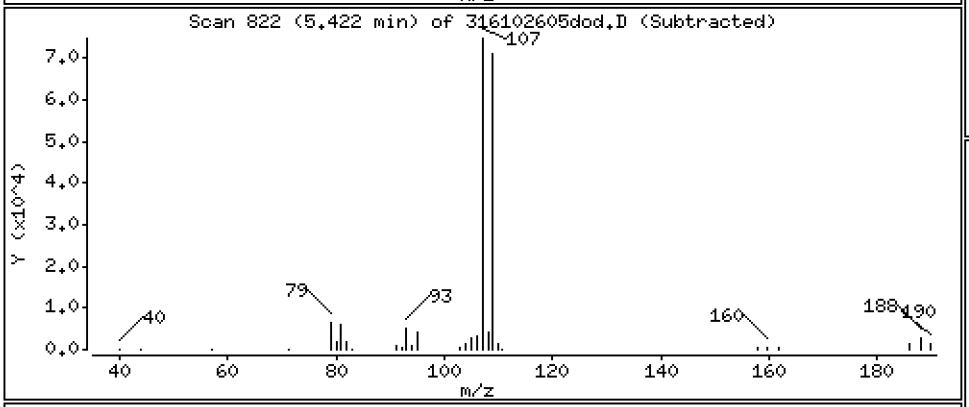
Purge Volume: 5.0 Operator: DD

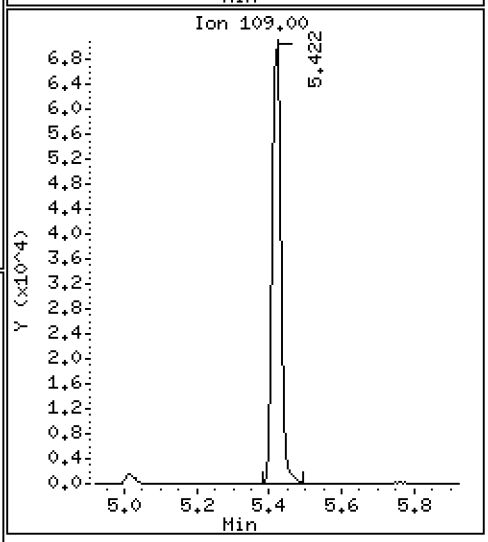
Column phase: DB-VRX Column diameter: 0.25

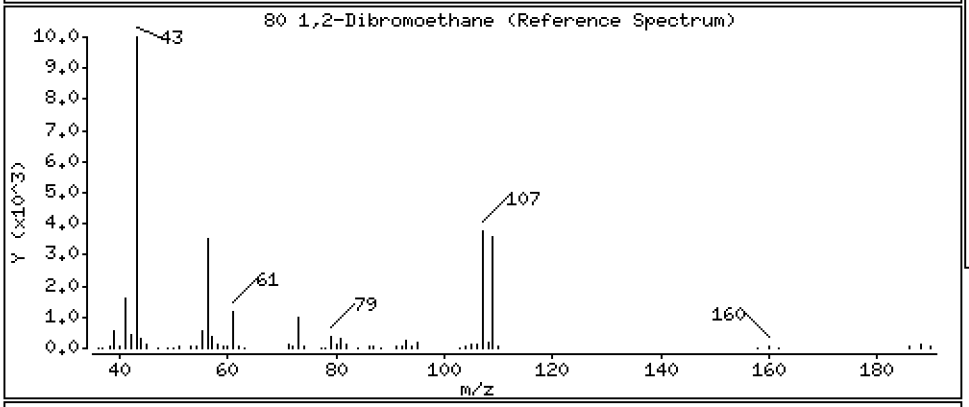
80 1,2-Dibromoethane Concentration: 18.9175 ug/L

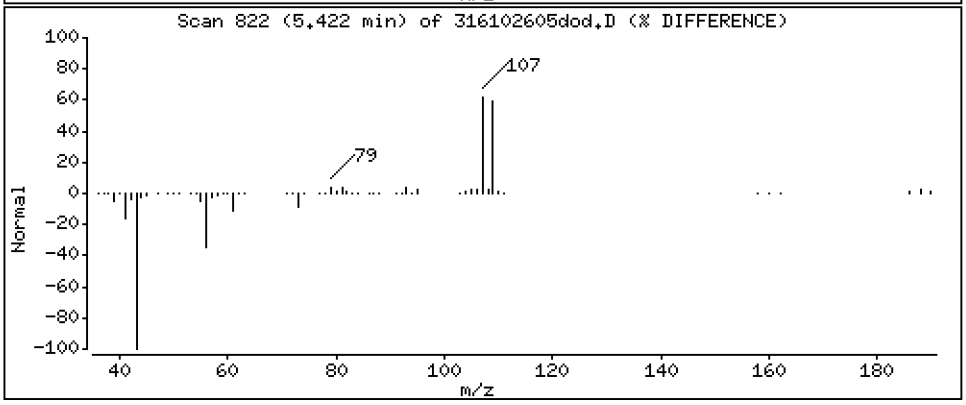












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 89

Date : 26-OCT-2016 10:55

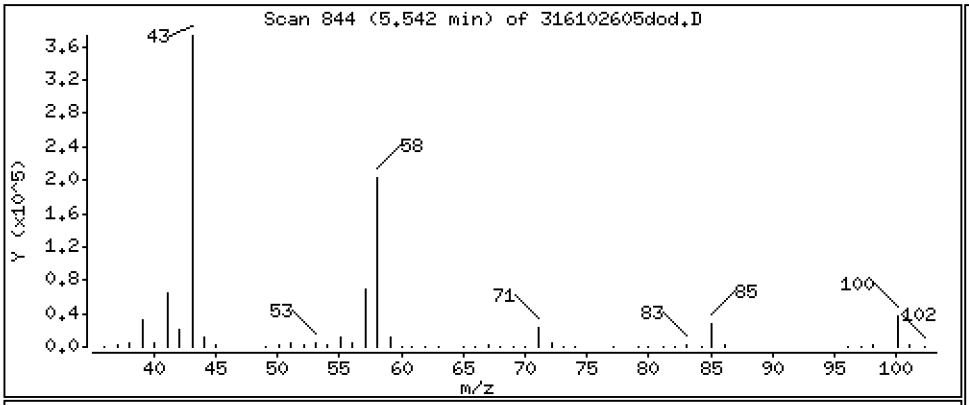
Client ID: LCS for HBN 174350 Instrument: ms03.i

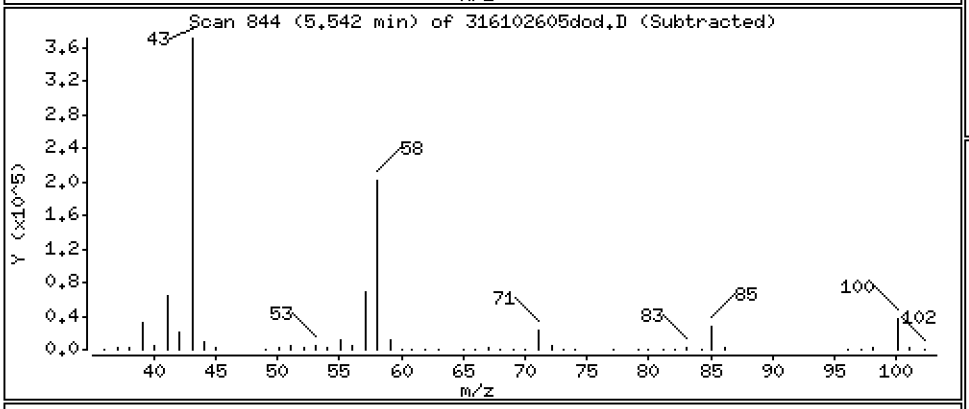
Sample Info: 2429648;;1;3;;LCS;1;

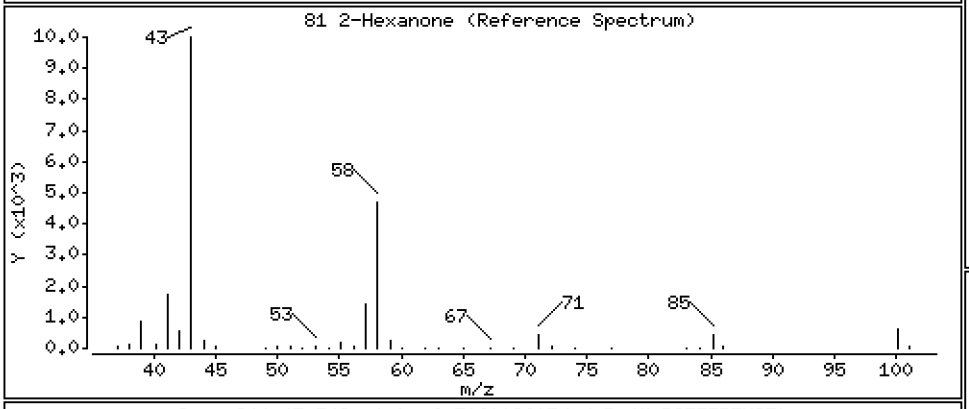
Purge Volume: 5.0 Operator: DD

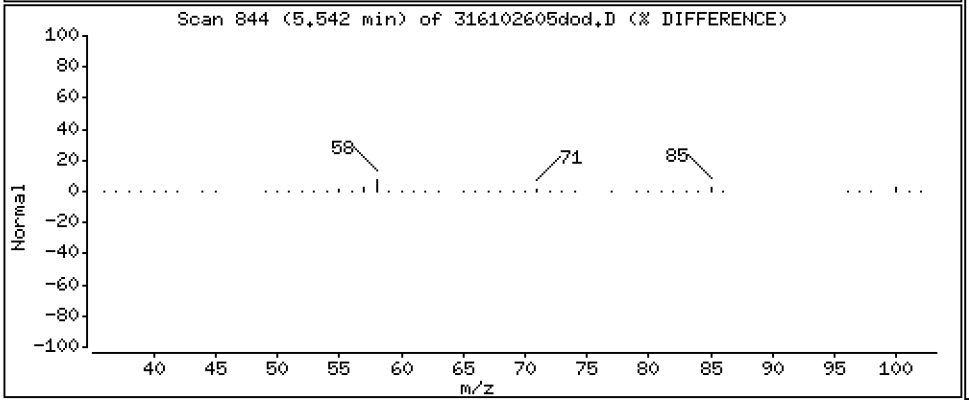
Column phase: DB-VRX Column diameter: 0.25

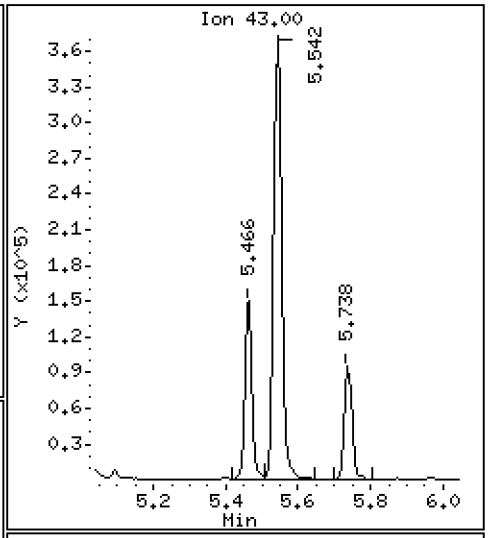
81 2-Hexanone Concentration: 114.047 ug/L

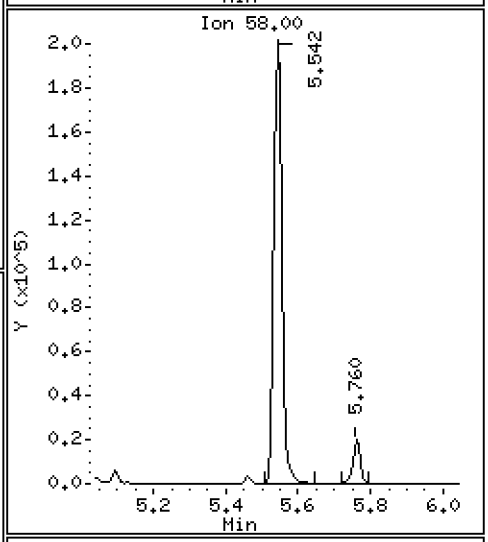


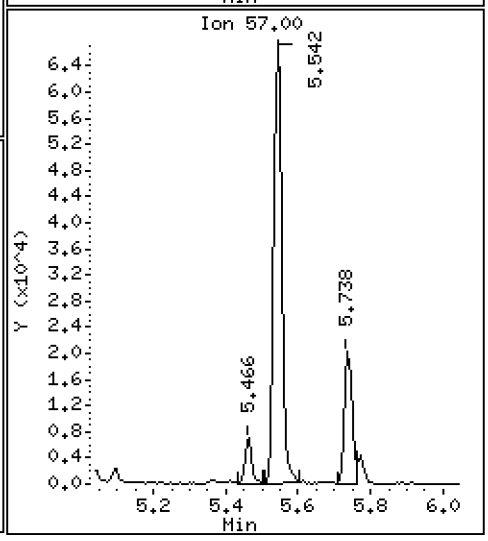












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 90

Date : 26-OCT-2016 10:55

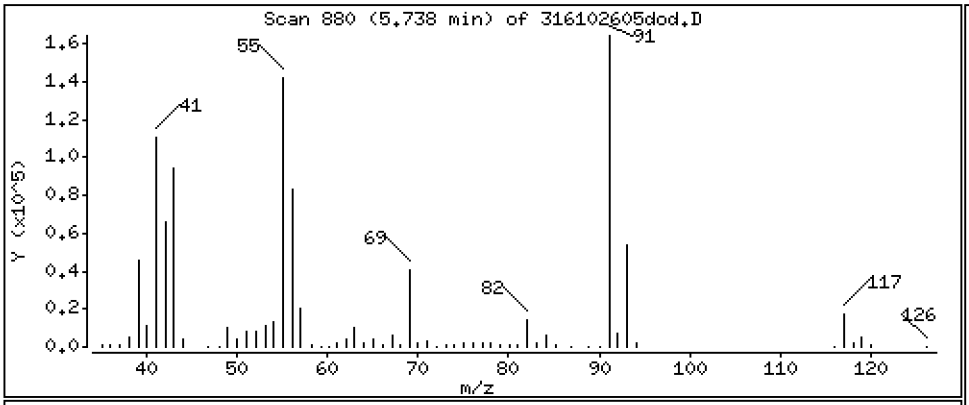
Client ID: LCS for HBN 174350 Instrument: ms03.i

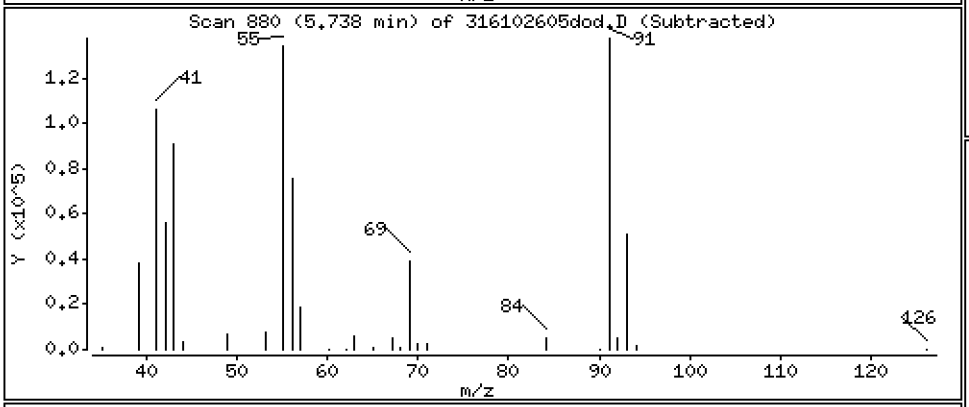
Sample Info: 2429648;;1;3;;LCS;1;

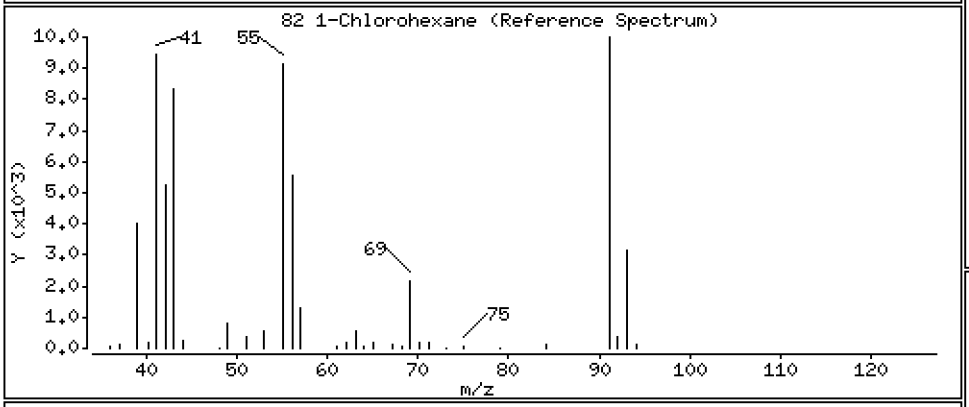
Purge Volume: 5.0 Operator: DD

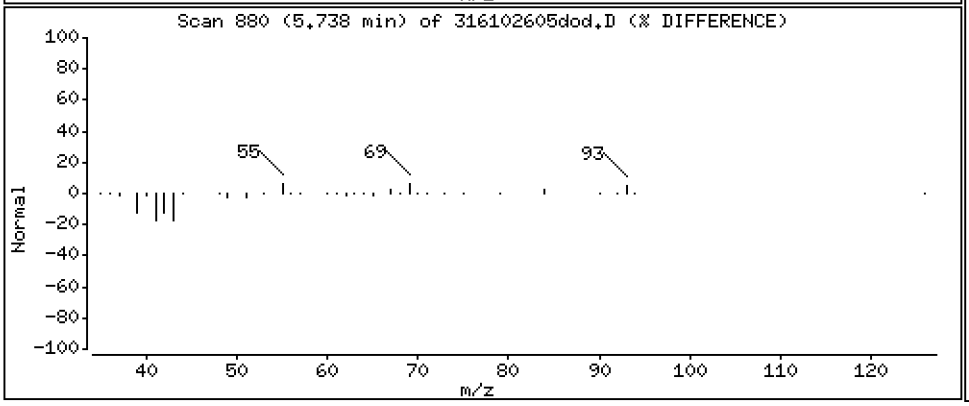
Column phase: DB-VRX Column diameter: 0.25

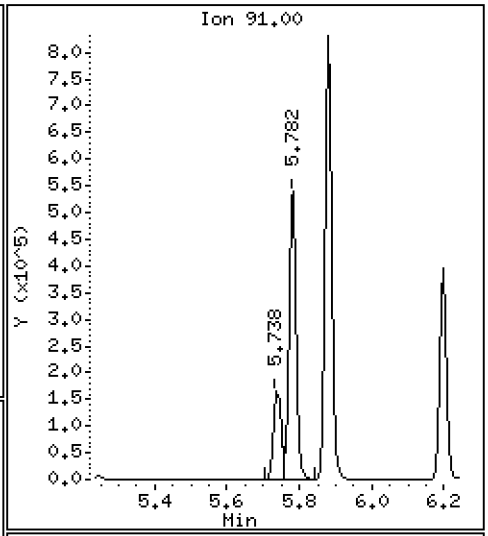
82 1-Chlorohexane Concentration: 19.8994 ug/L

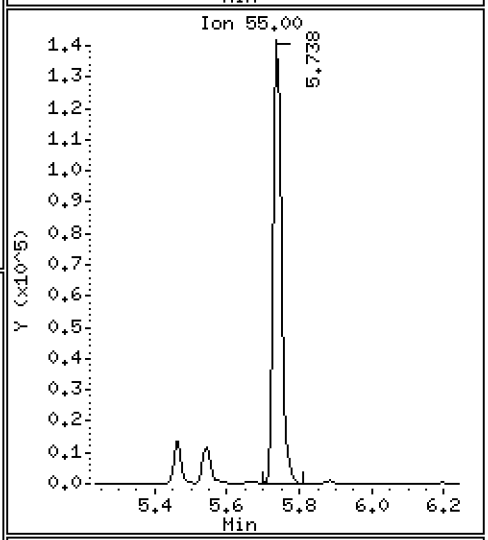


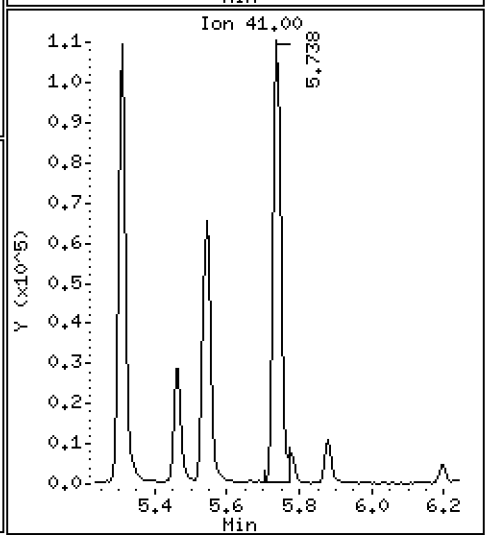












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 91

Date : 26-OCT-2016 10:55

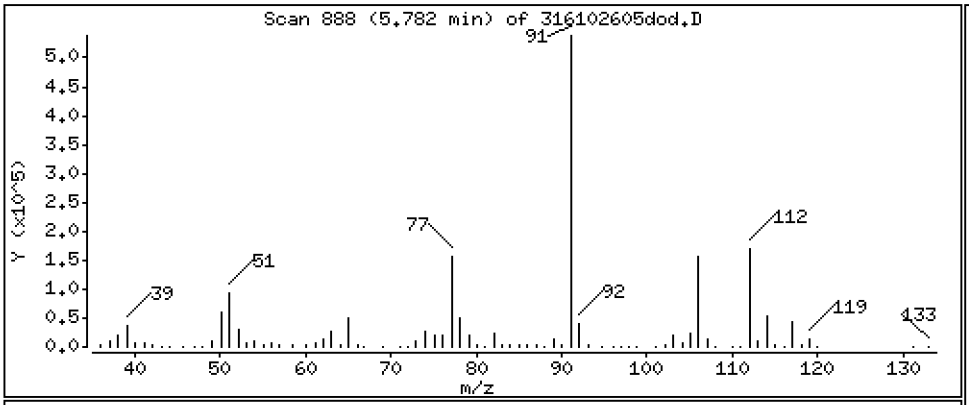
Client ID: LCS for HBN 174350 Instrument: ms03.i

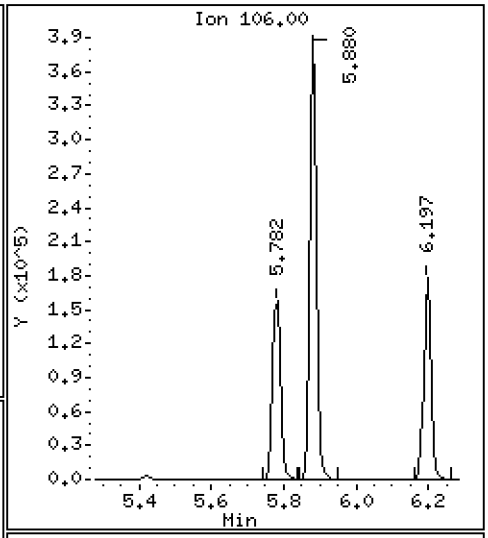
Sample Info: 2429648;;1;3;;LCS;1;

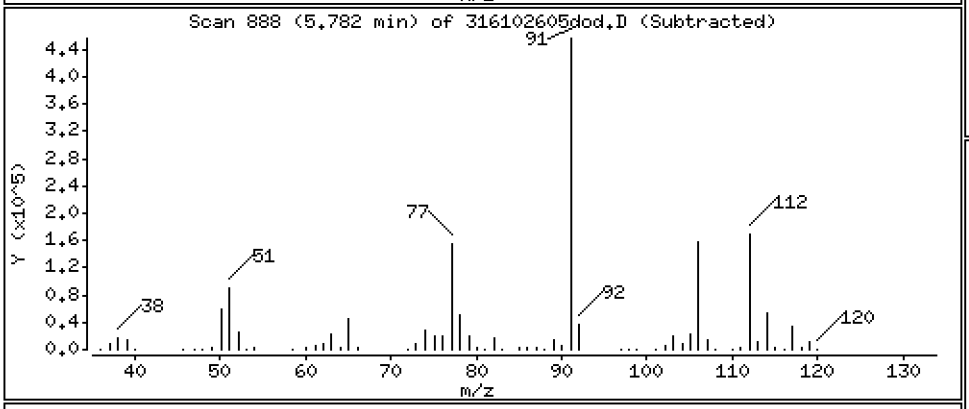
Purge Volume: 5.0 Operator: DD

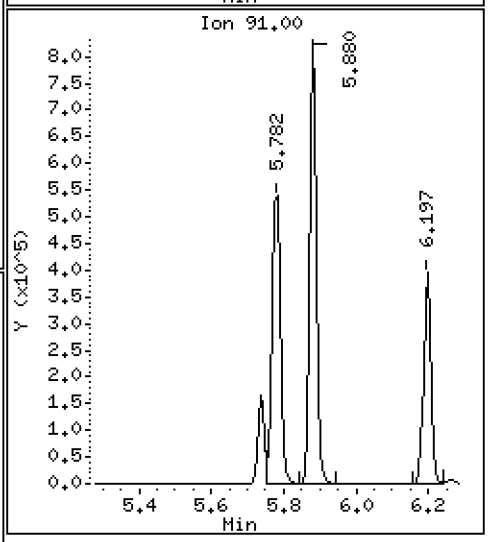
Column phase: DB-VRX Column diameter: 0.25

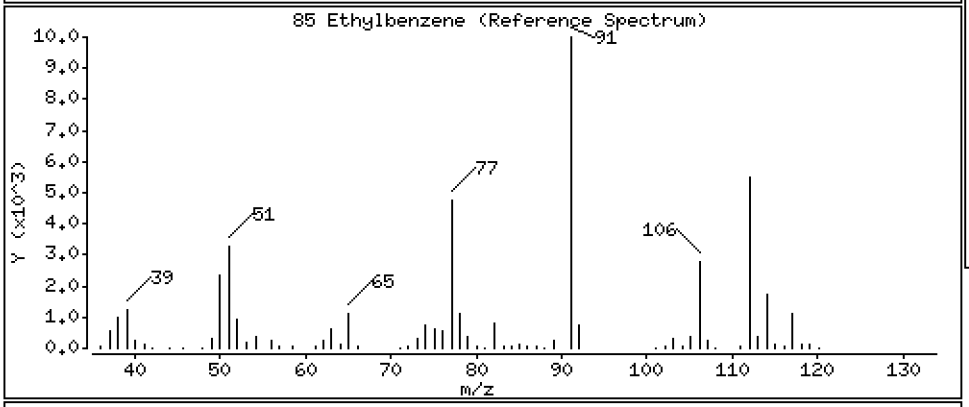
85 Ethylbenzene Concentration: 18.6448 ug/L

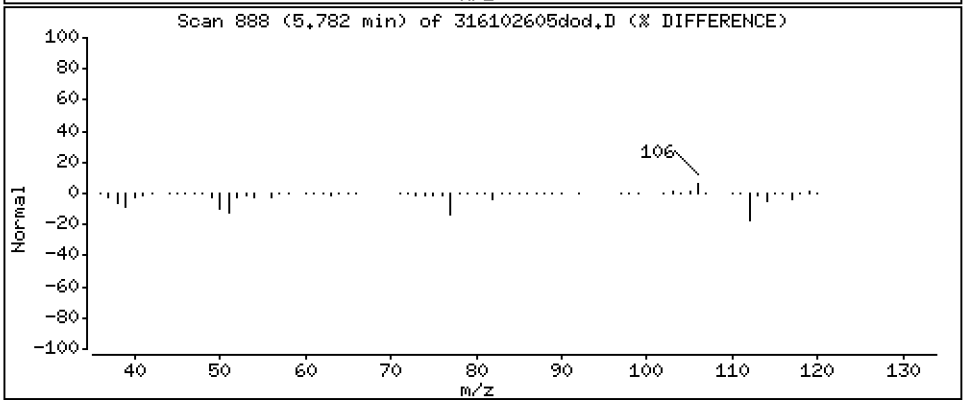












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 92

Date : 26-OCT-2016 10:55

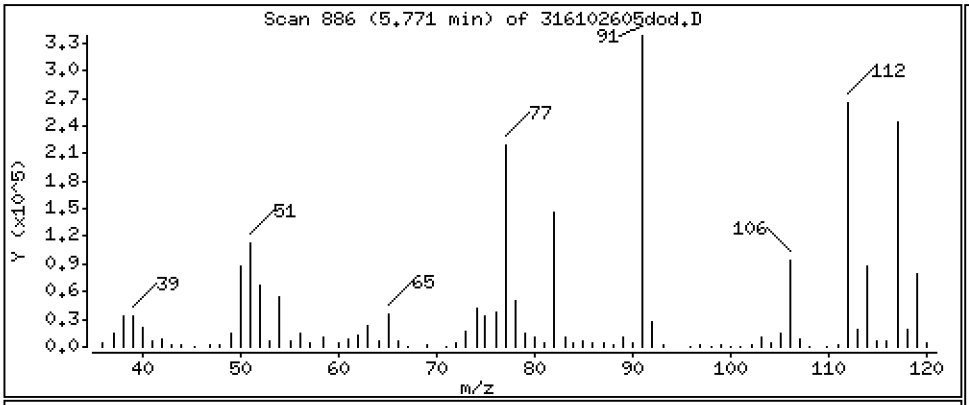
Client ID: LCS for HBN 174350 Instrument: ms03.i

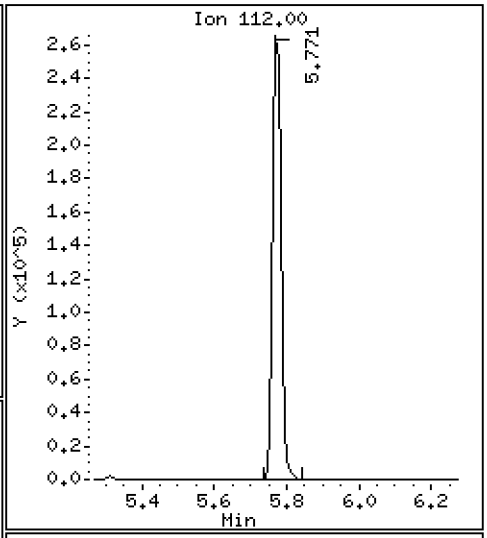
Sample Info: 2429648;;1;3;;LCS;1;

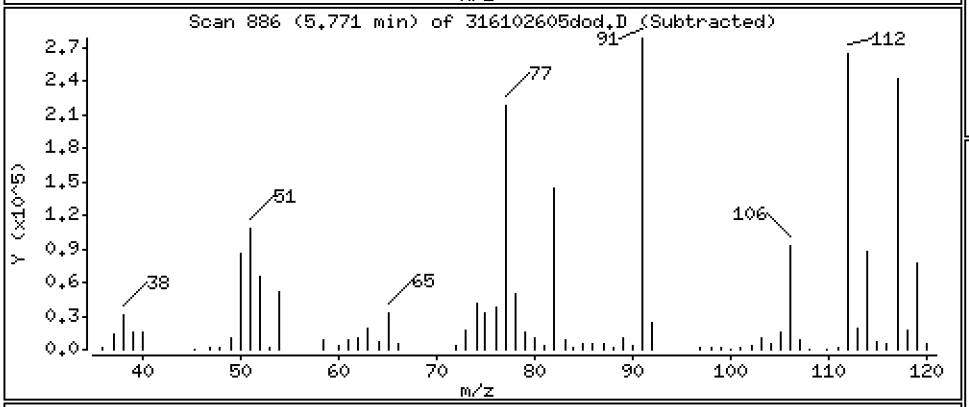
Purge Volume: 5.0 Operator: DD

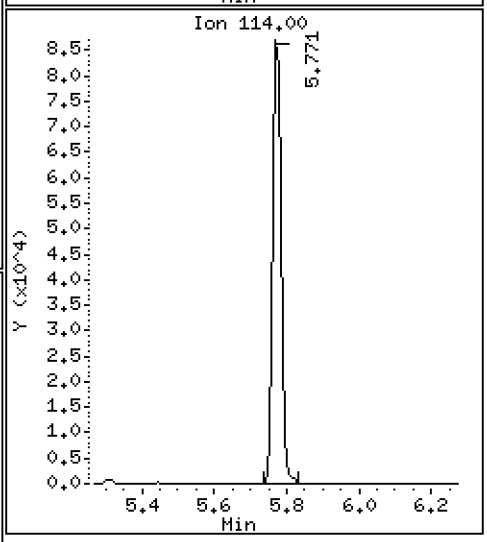
Column phase: DB-VRX Column diameter: 0.25

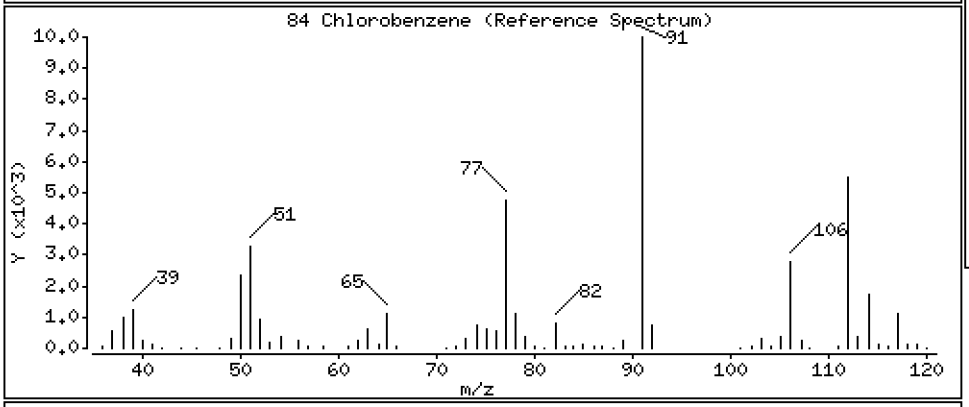
84 Chlorobenzene Concentration: 17.9545 ug/L

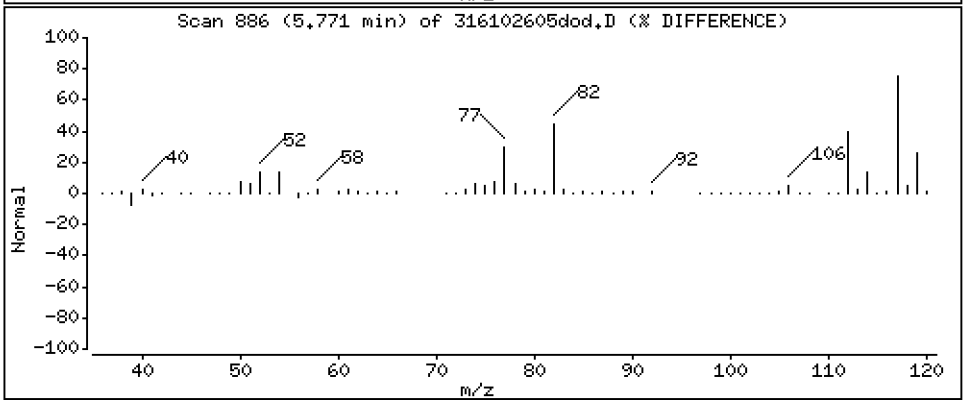












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 93

Date : 26-OCT-2016 10:55

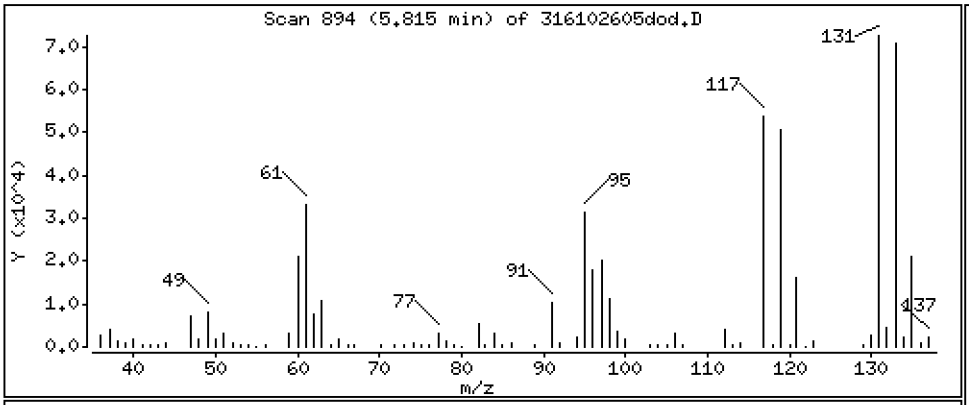
Client ID: LCS for HBN 174350 Instrument: ms03.i

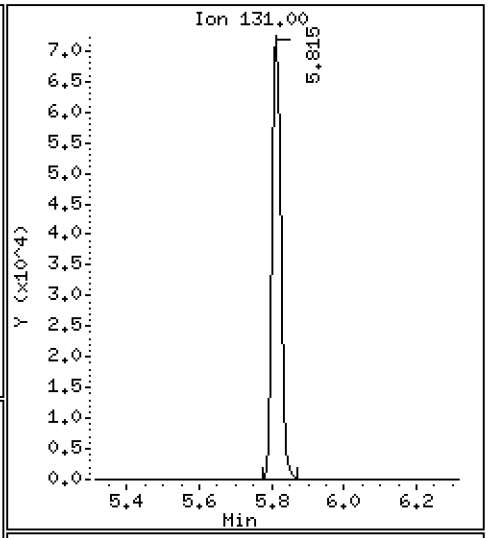
Sample Info: 2429648;;1;3;;LCS;1;

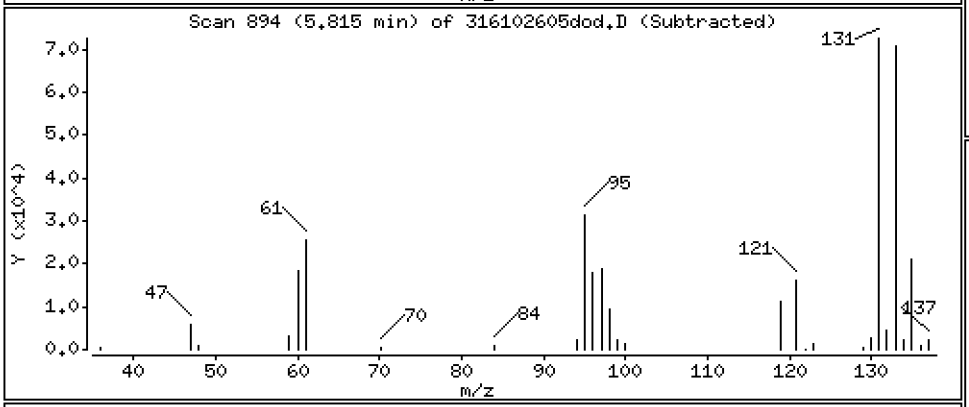
Purge Volume: 5.0 Operator: DD

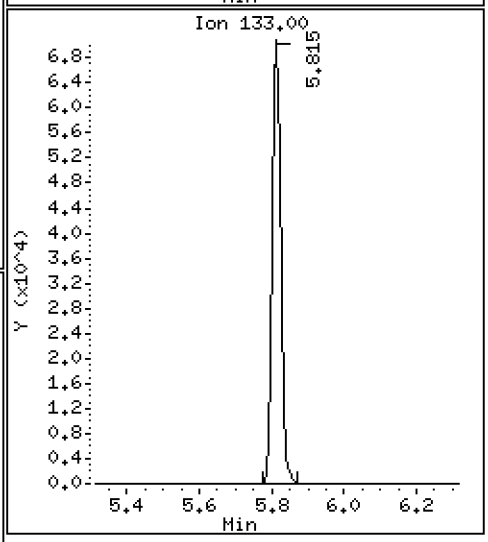
Column phase: DB-VRX Column diameter: 0.25

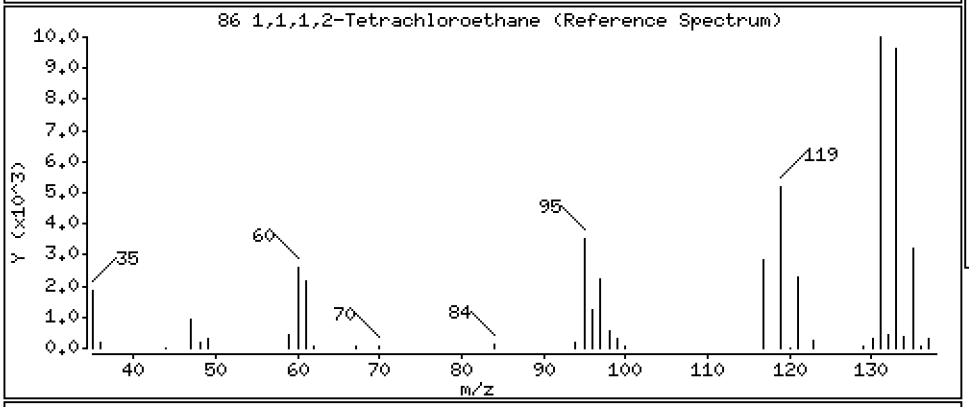
86 1,1,1,2-Tetrachloroethane Concentration: 19.3502 ug/L

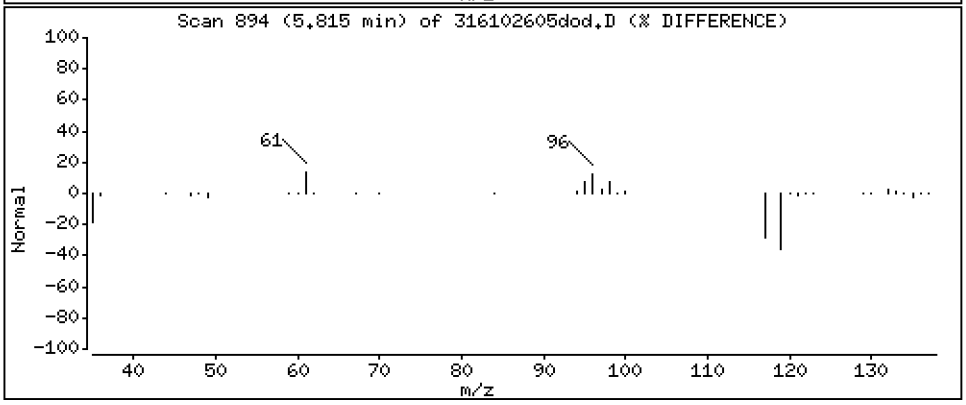












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 94

Date : 26-OCT-2016 10:55

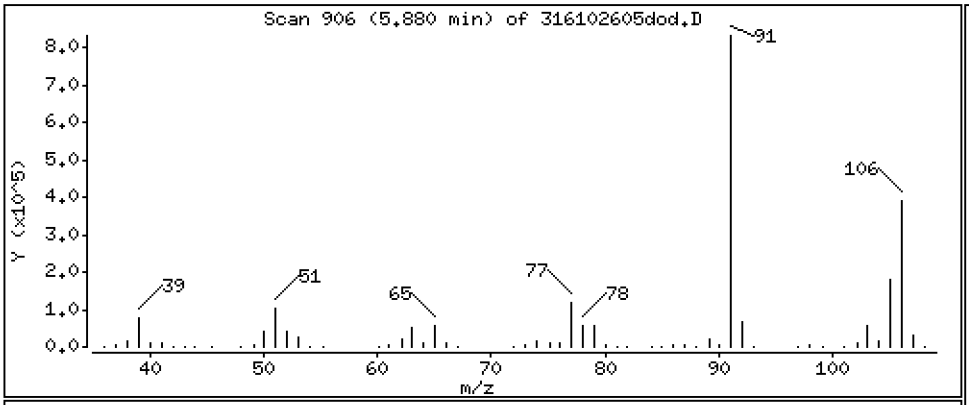
Client ID: LCS for HBN 174350 Instrument: ms03.i

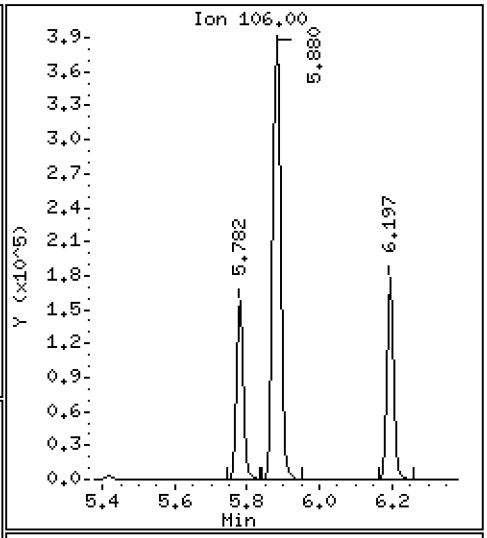
Sample Info: 2429648;;1;3;;LCS;1;

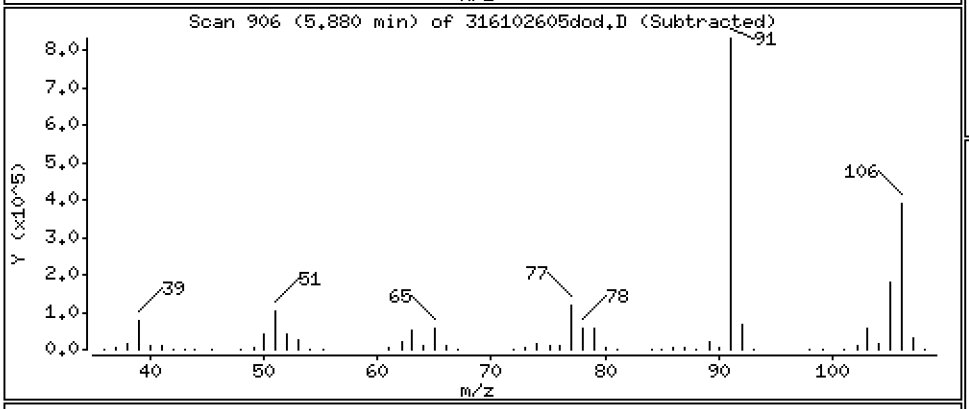
Purge Volume: 5.0 Operator: DD

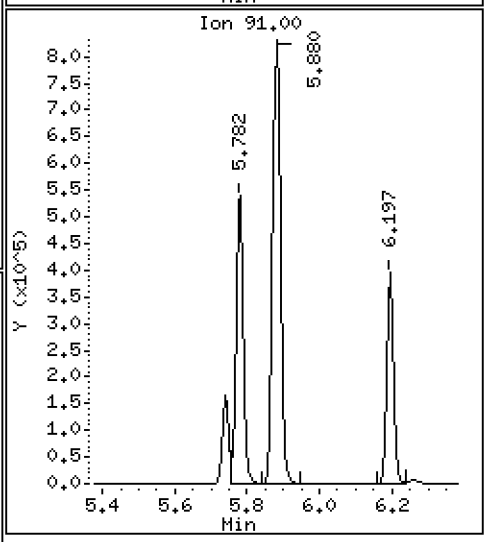
Column phase: DB-VRX Column diameter: 0.25

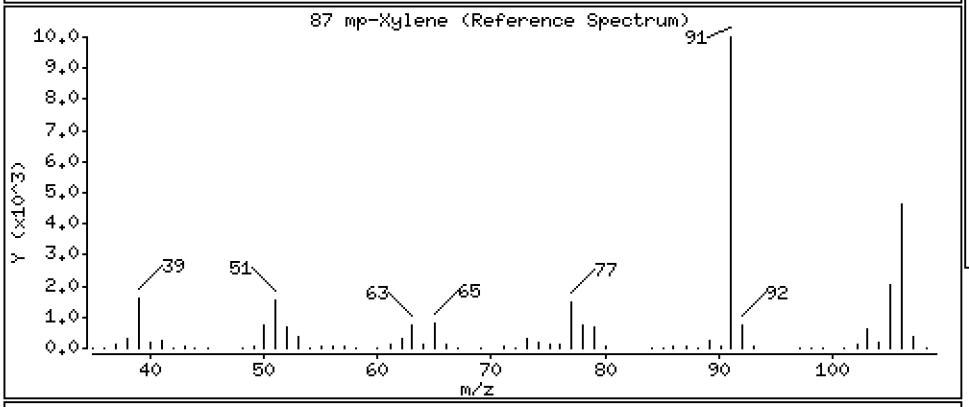
87 mp-Xylene Concentration: 38.3269 ug/L

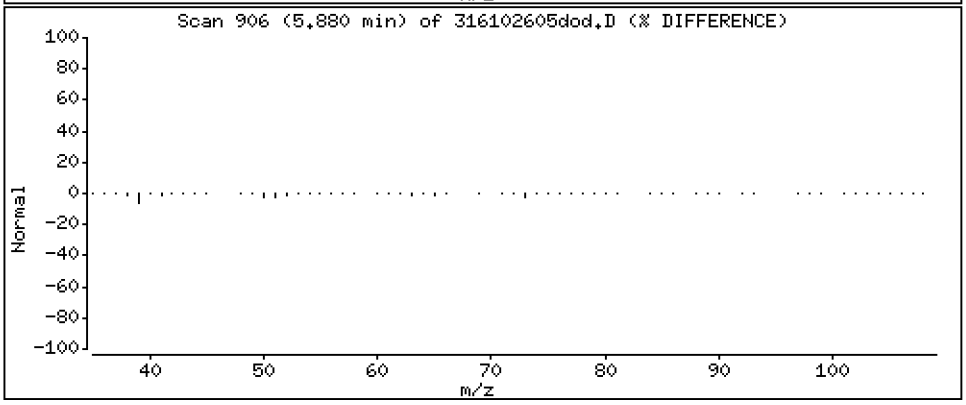












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 95

Date : 26-OCT-2016 10:55

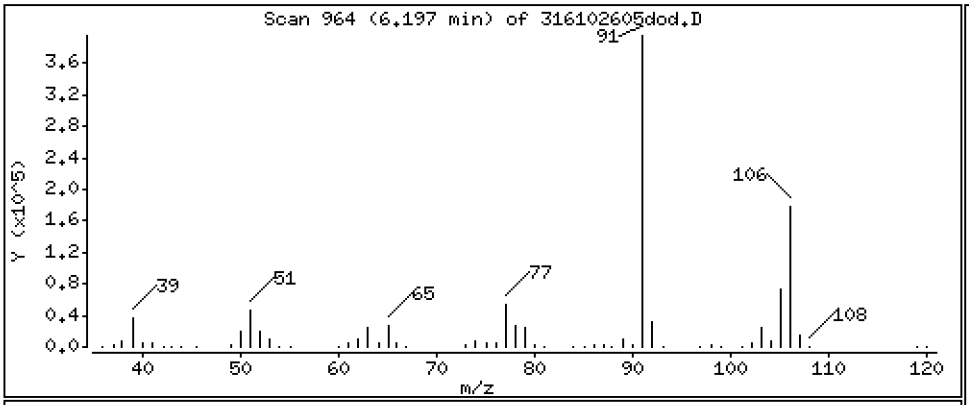
Client ID: LCS for HBN 174350 Instrument: ms03.i

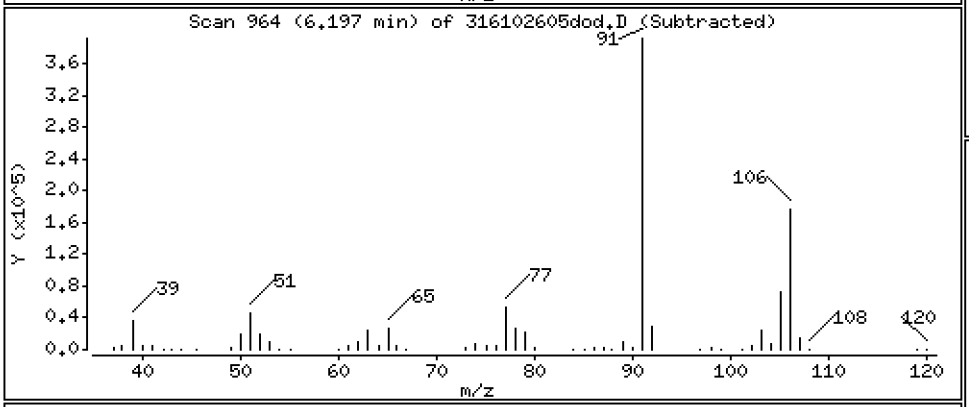
Sample Info: 2429648;;1;3;;LCS;1;

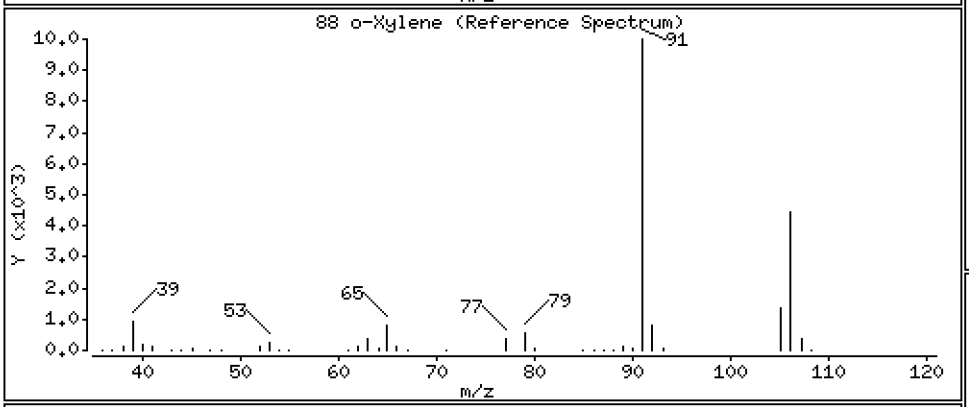
Purge Volume: 5.0 Operator: DD

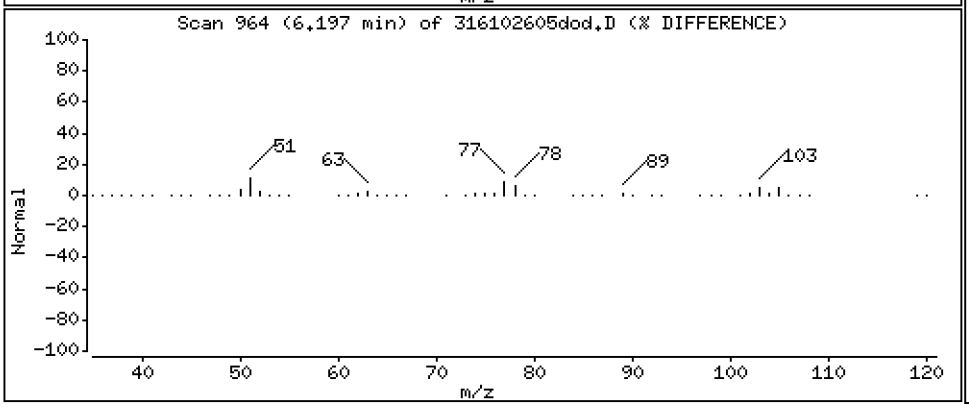
Column phase: DB-VRX Column diameter: 0.25

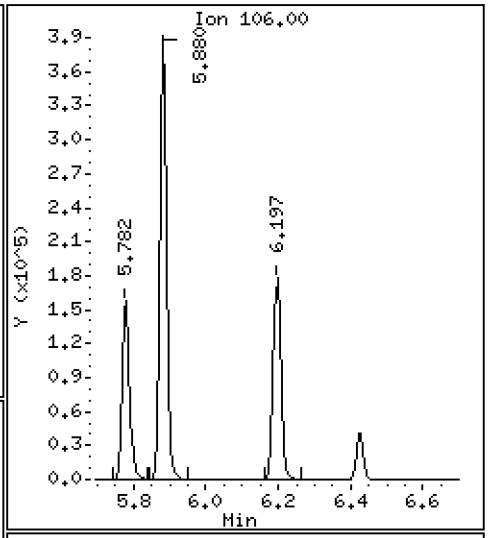
88 o-Xylene Concentration: 19.6013 ug/L

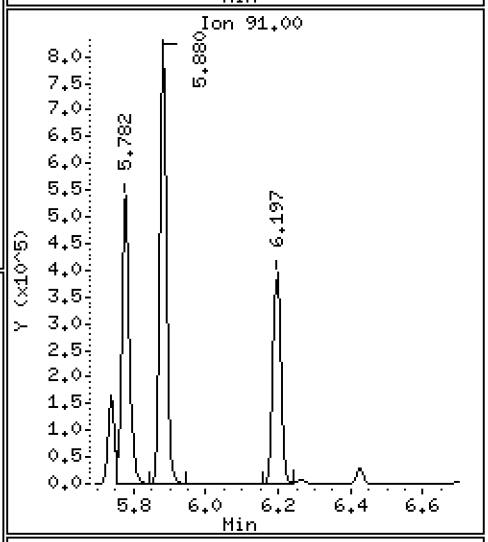


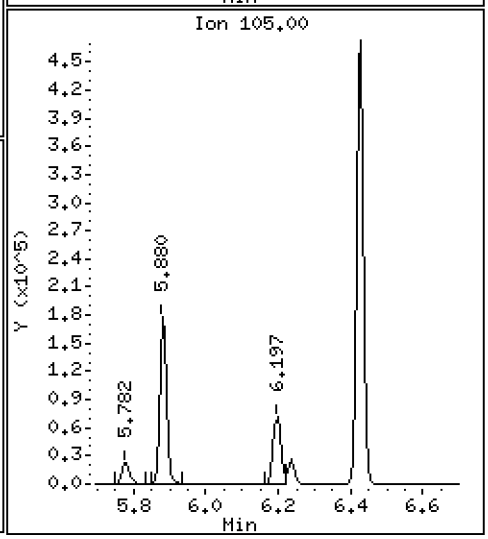












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 96

Date : 26-OCT-2016 10:55

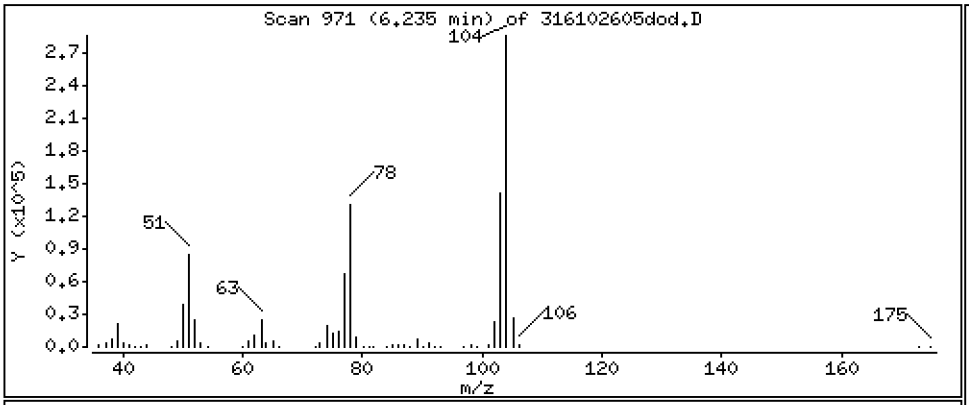
Client ID: LCS for HBN 174350 Instrument: ms03.i

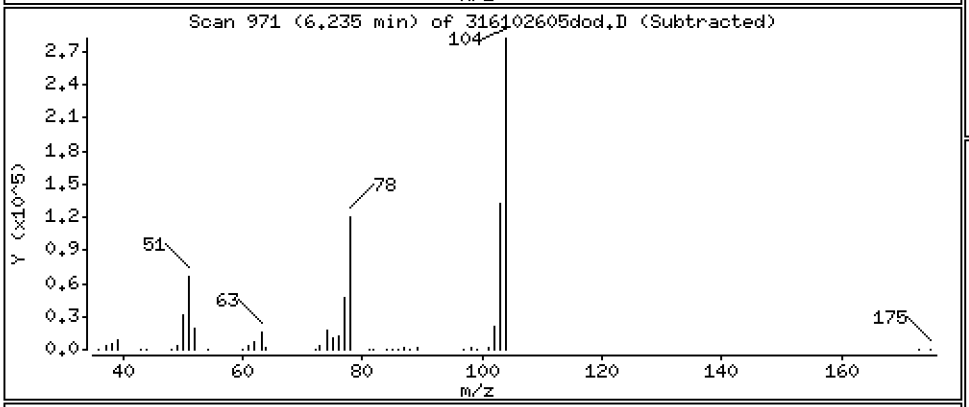
Sample Info: 2429648;;1;3;;LCS;1;

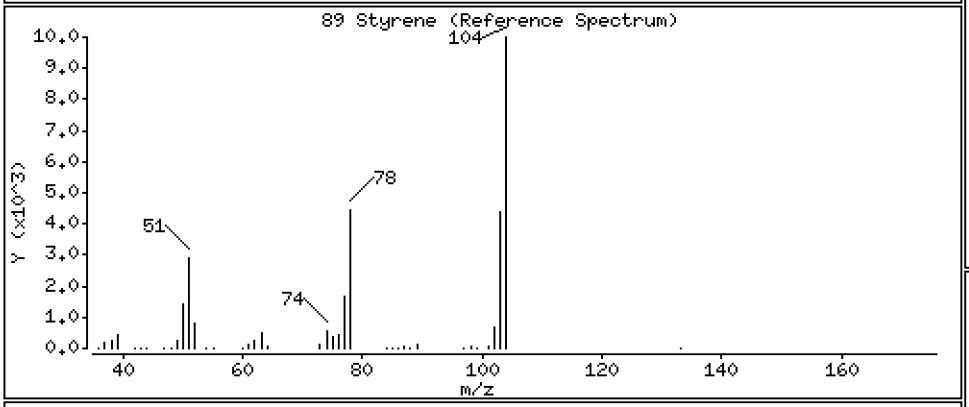
Purge Volume: 5.0 Operator: DD

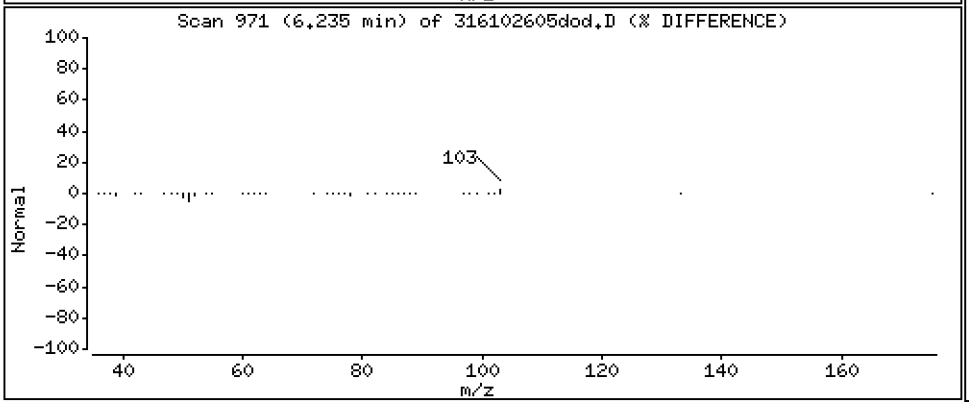
Column phase: DB-VRX Column diameter: 0.25

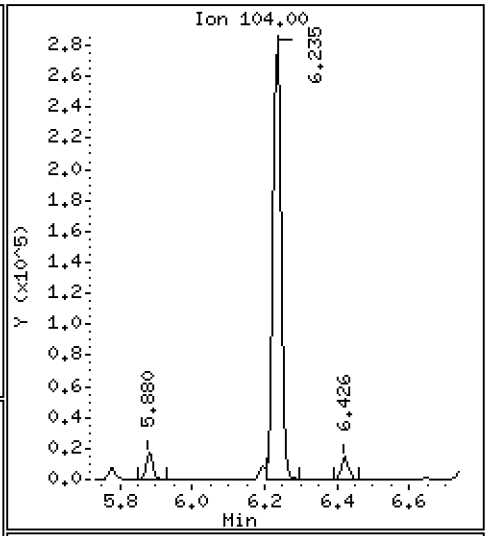
89 Styrene Concentration: 20.4321 ug/L

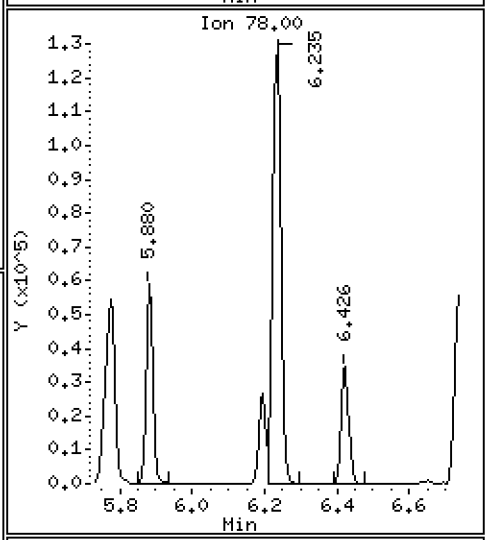


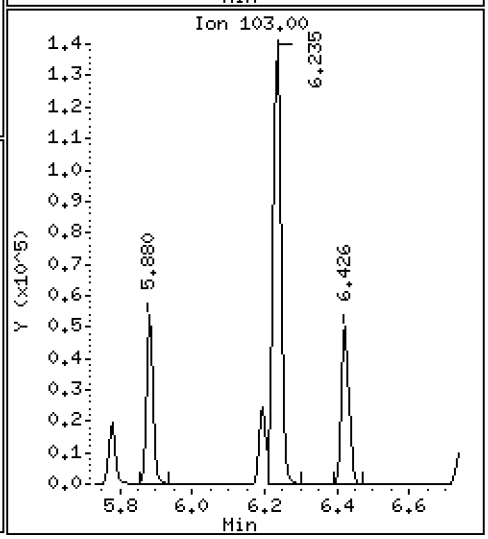












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 97

Date : 26-OCT-2016 10:55

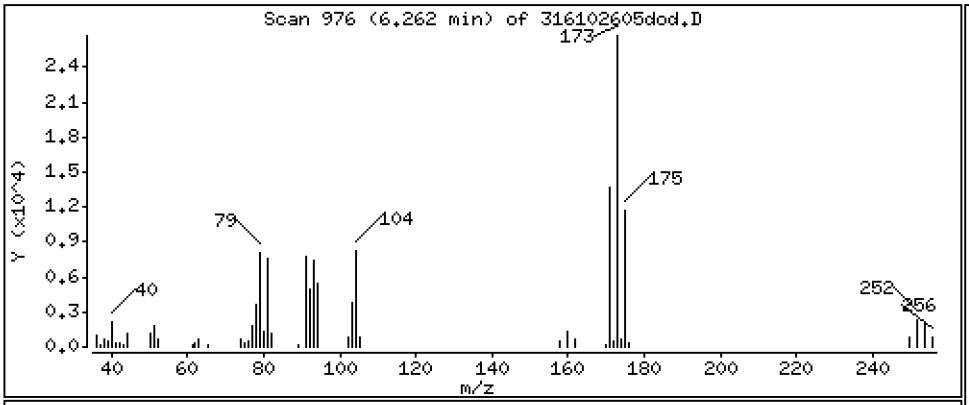
Client ID: LCS for HBN 174350 Instrument: ms03.i

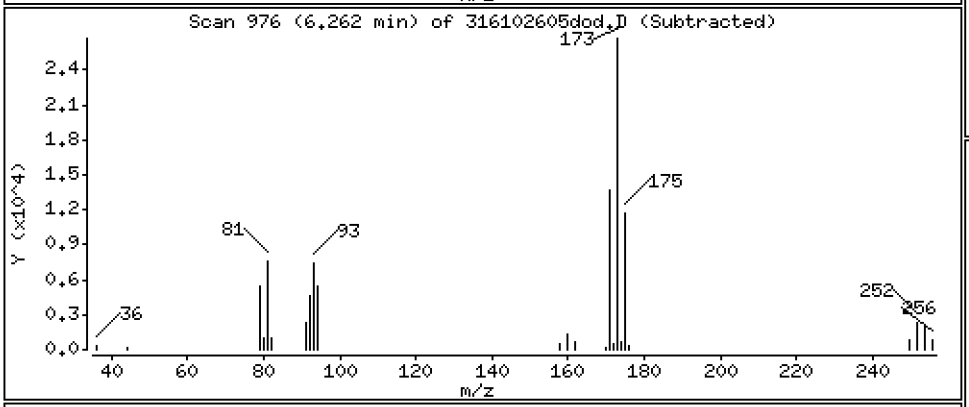
Sample Info: 2429648;;1;3;;LCS;1;

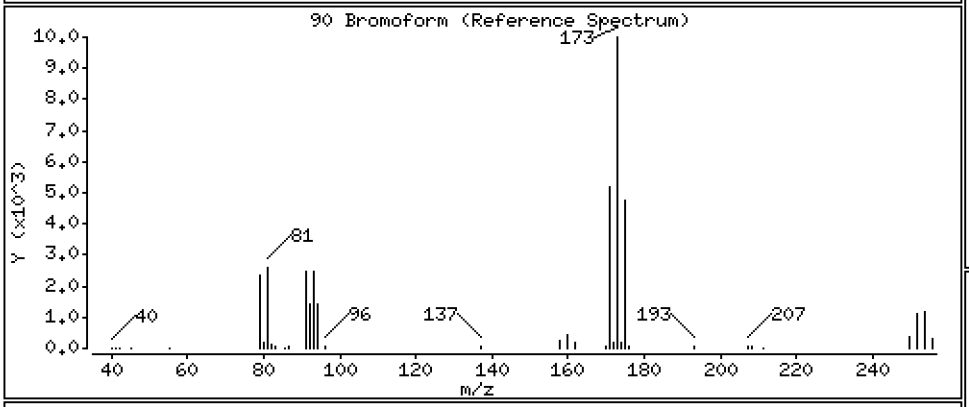
Purge Volume: 5.0 Operator: DD

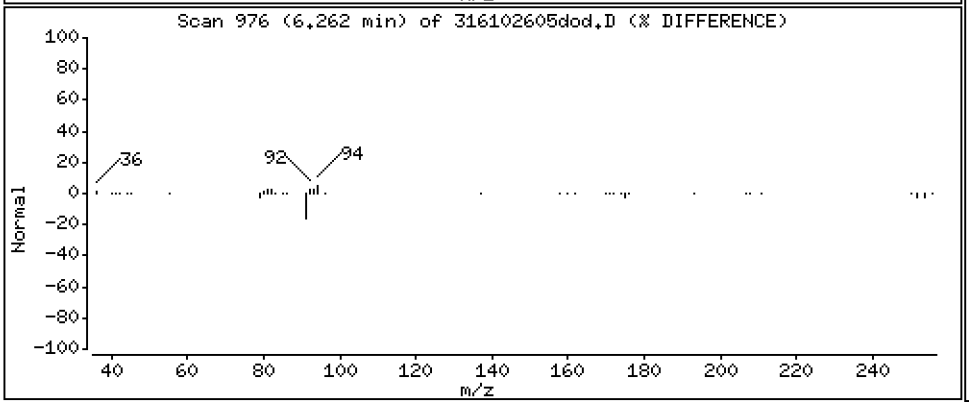
Column phase: DB-VRX Column diameter: 0.25

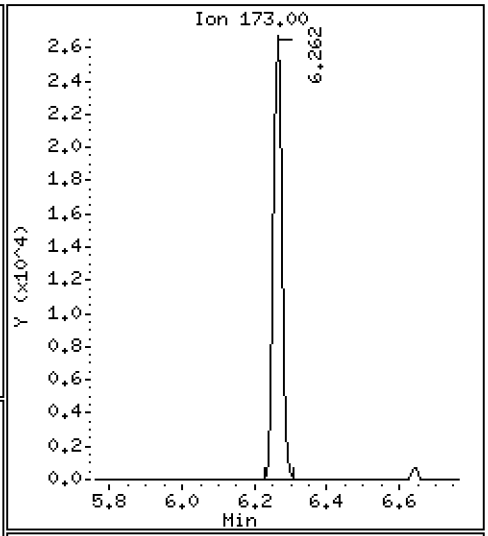
90 Bromoform Concentration: 16.5415 ug/L

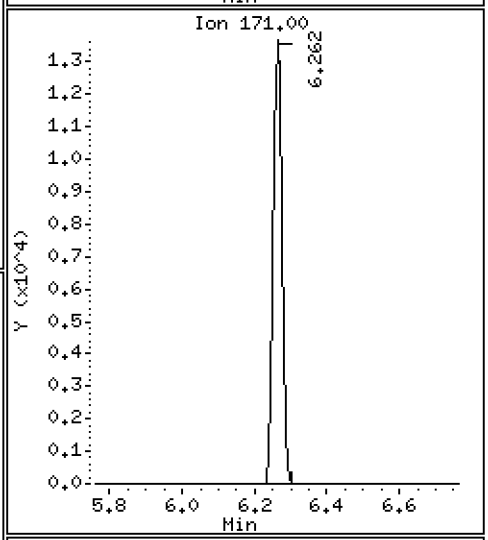


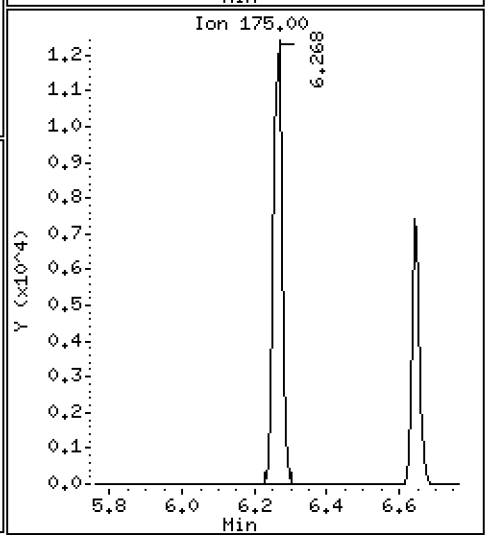












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 98

Date : 26-OCT-2016 10:55

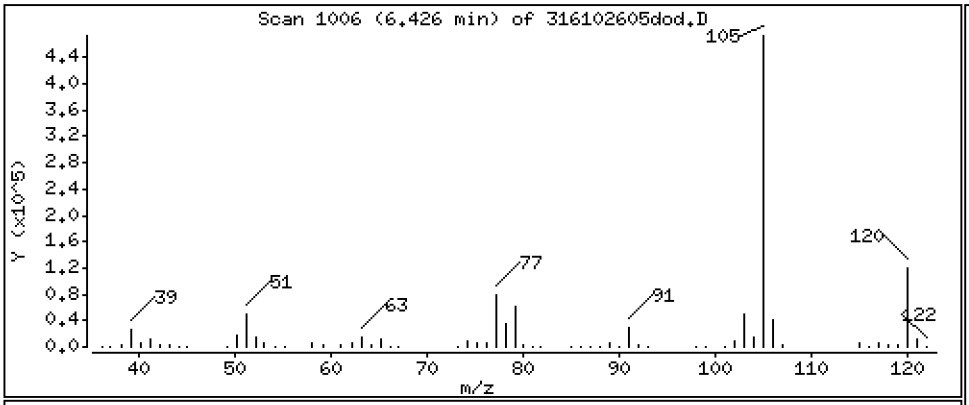
Client ID: LCS for HBN 174350 Instrument: ms03.i

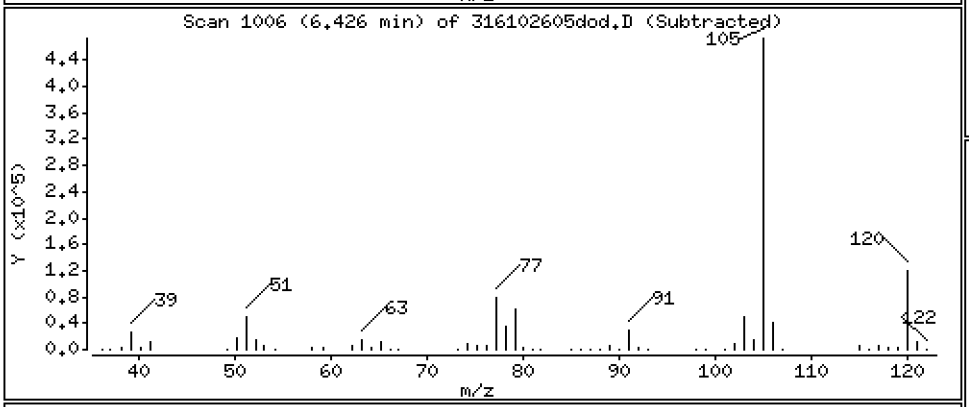
Sample Info: 2429648;;1;3;;LCS;1;

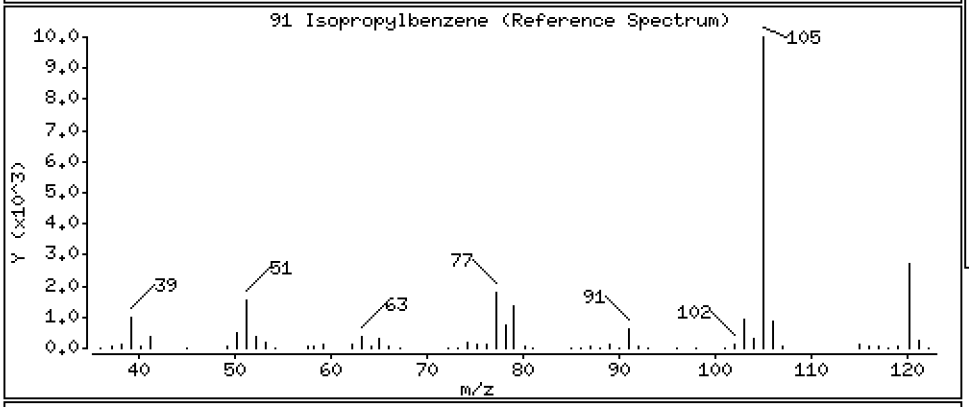
Purge Volume: 5.0 Operator: DD

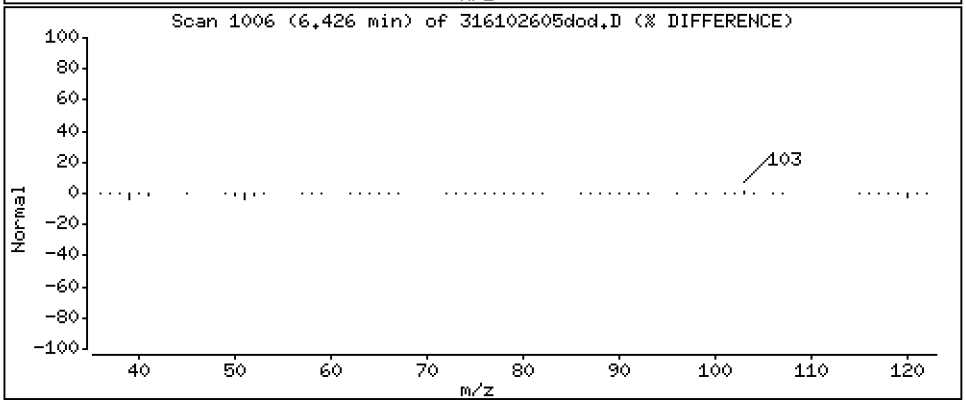
Column phase: DB-VRX Column diameter: 0.25

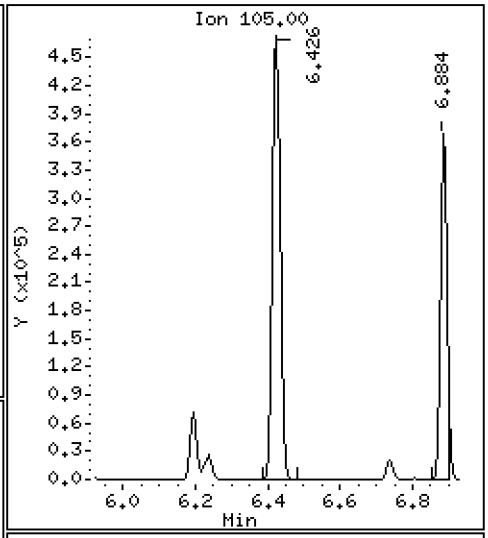
91 Isopropylbenzene Concentration: 20.5403 ug/L

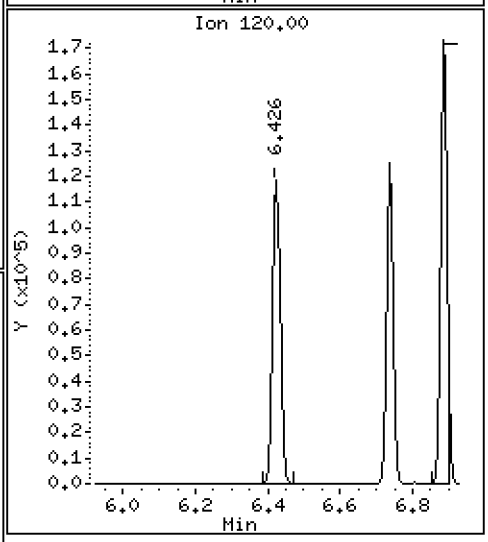












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 99

Date : 26-OCT-2016 10:55

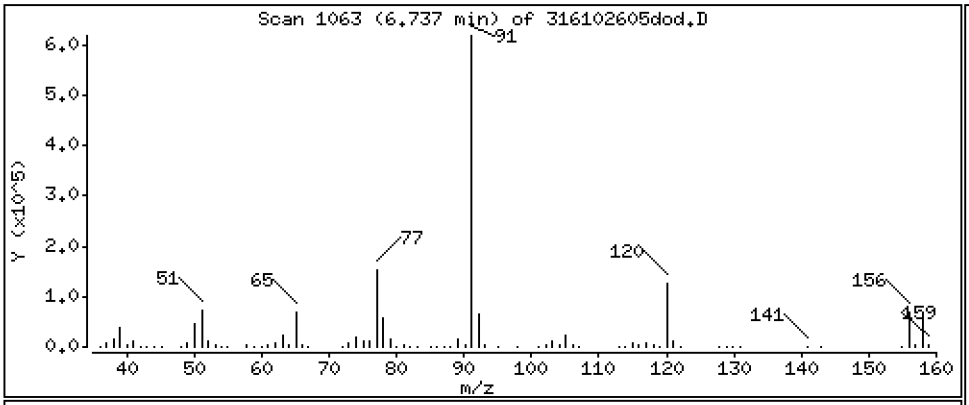
Client ID: LCS for HBN 174350 Instrument: ms03.i

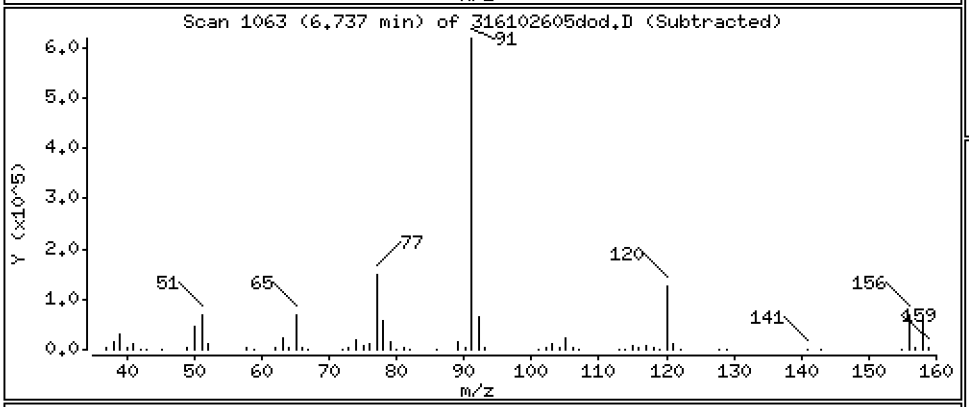
Sample Info: 2429648;;1;3;;LCS;1;

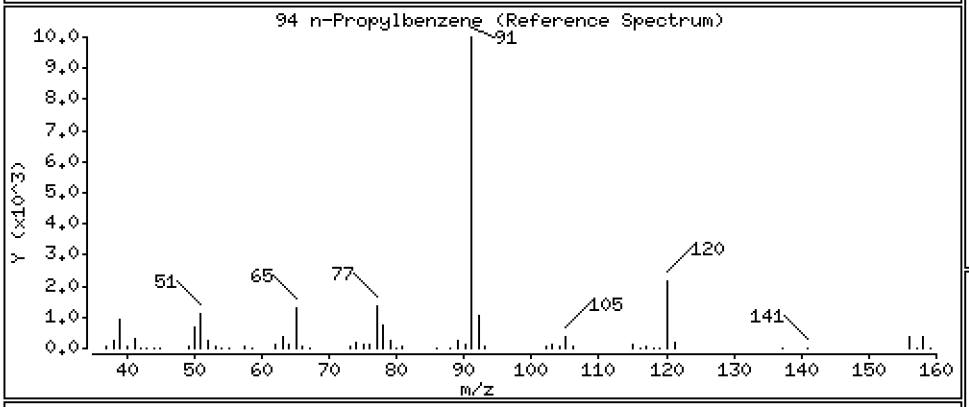
Purge Volume: 5.0 Operator: DD

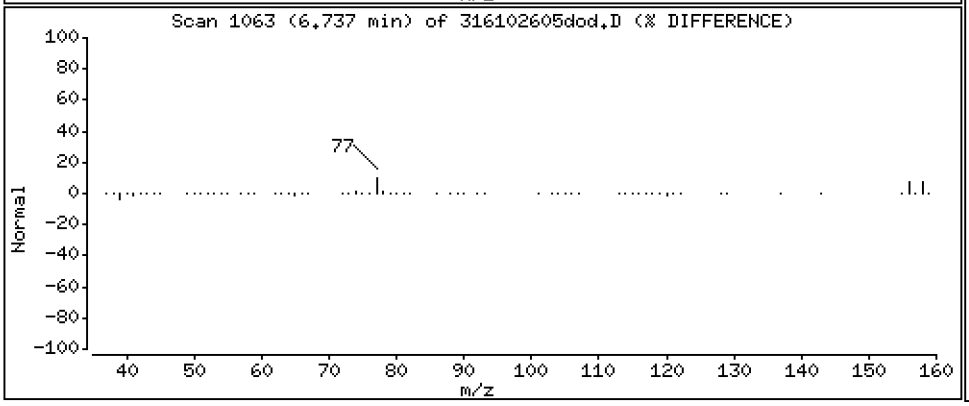
Column phase: DB-VRX Column diameter: 0.25

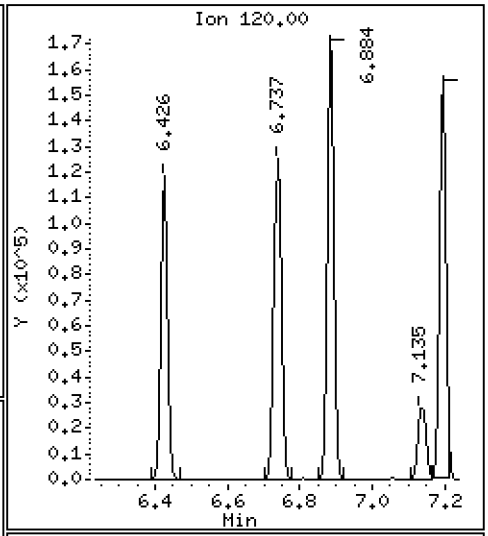
94 n-Propylbenzene Concentration: 20.7803 ug/L

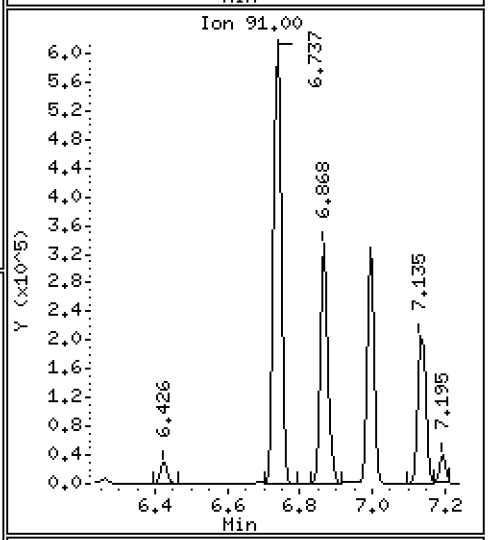


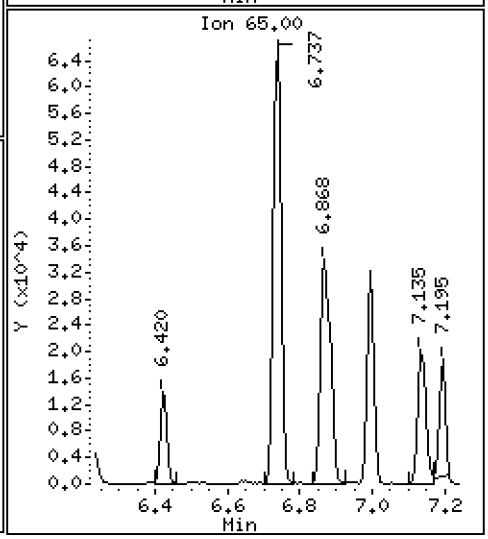












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 100

Date : 26-OCT-2016 10:55

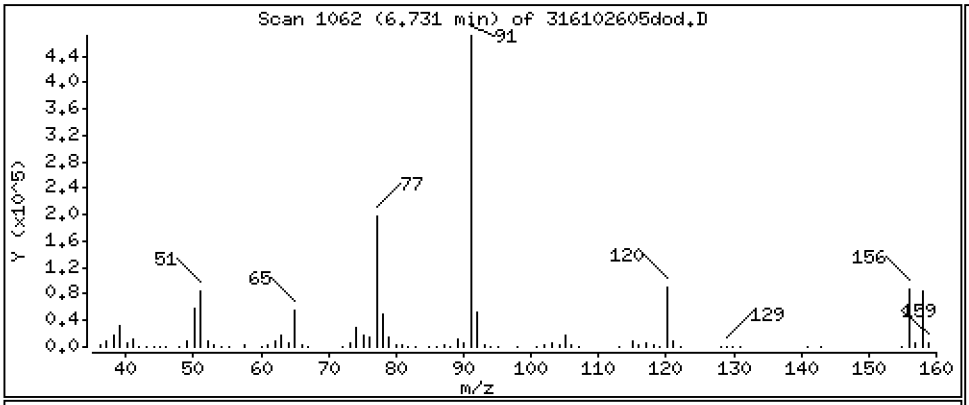
Client ID: LCS for HBN 174350 Instrument: ms03.i

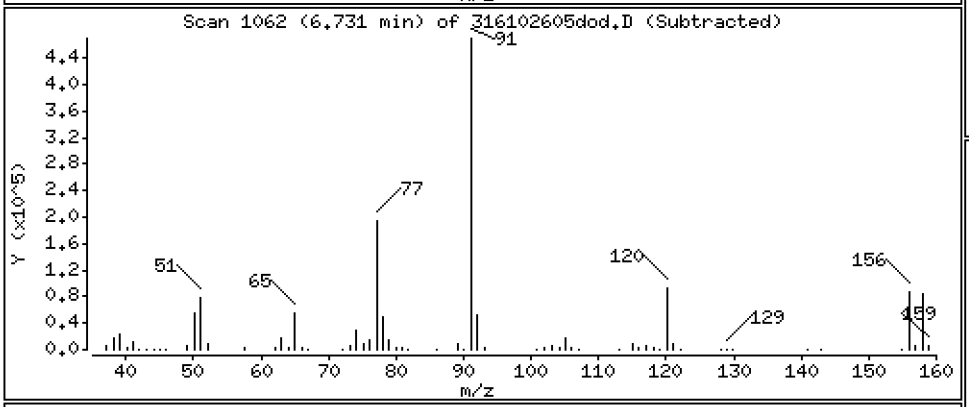
Sample Info: 2429648;;1;3;;LCS;1;

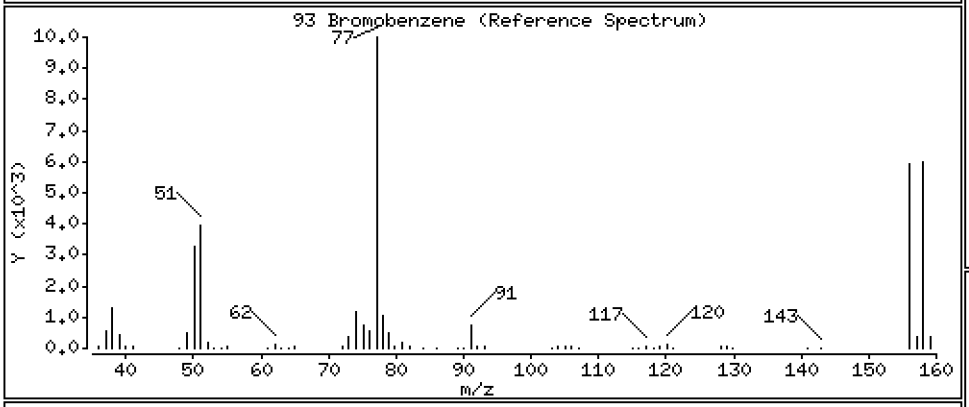
Purge Volume: 5.0 Operator: DD

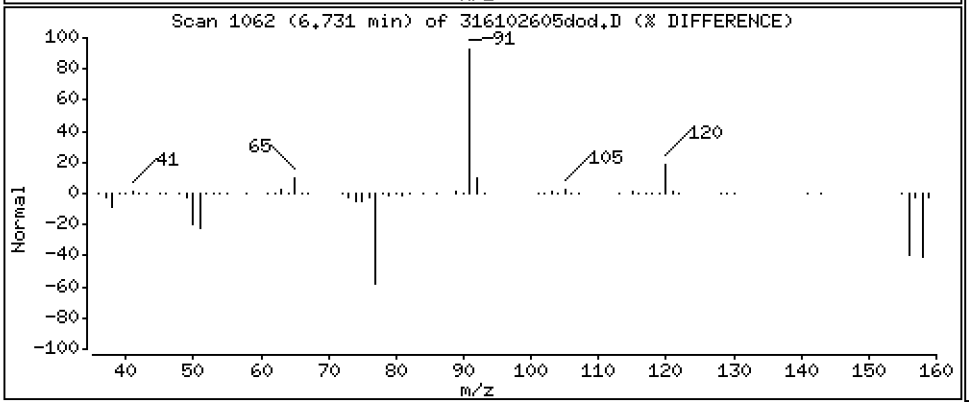
Column phase: DB-VRX Column diameter: 0.25

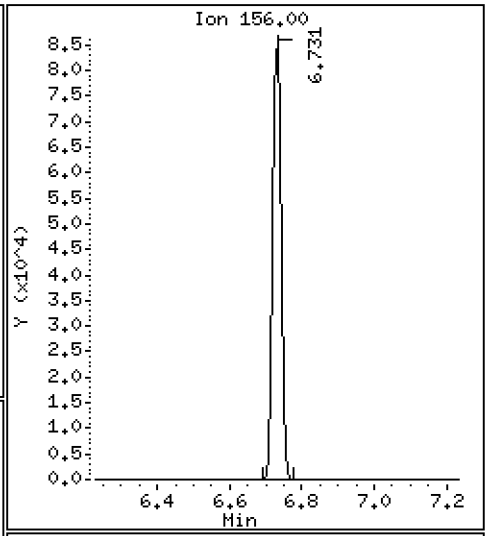
93 Bromobenzene Concentration: 18.8863 ug/L

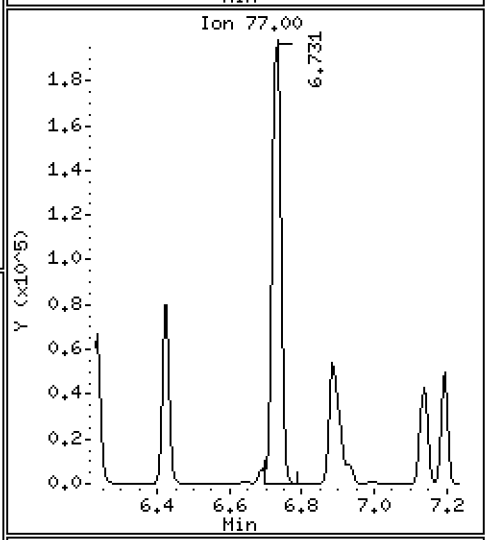


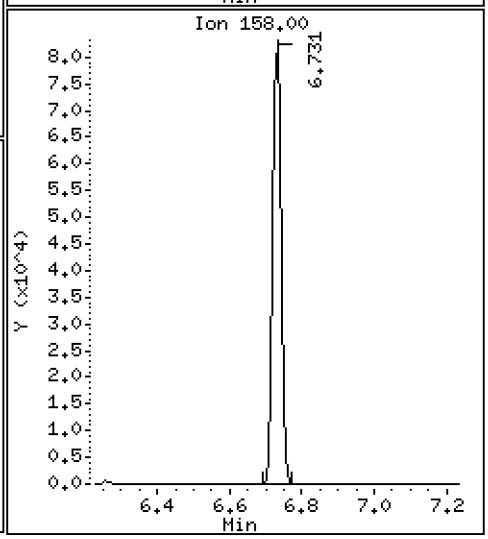












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 101

Date : 26-OCT-2016 10:55

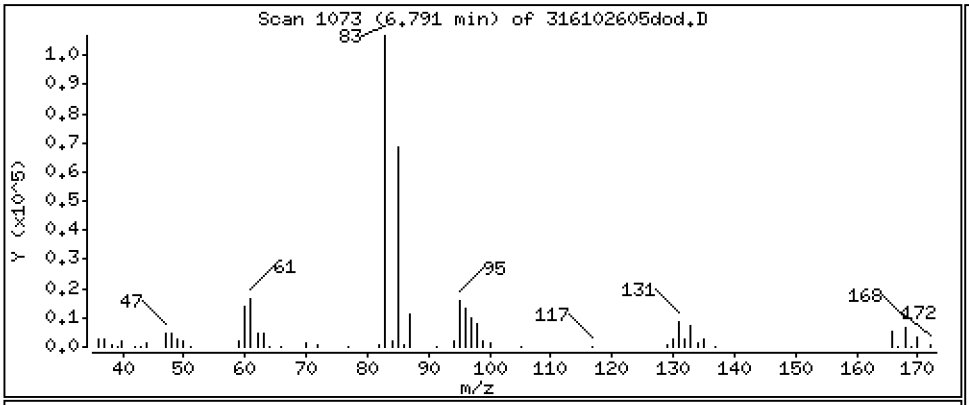
Client ID: LCS for HBN 174350 Instrument: ms03.i

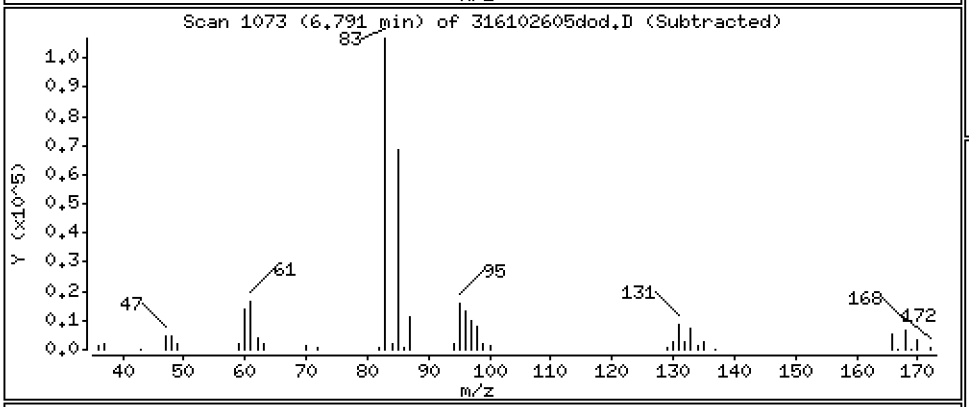
Sample Info: 2429648;;1;3;;LCS;1;

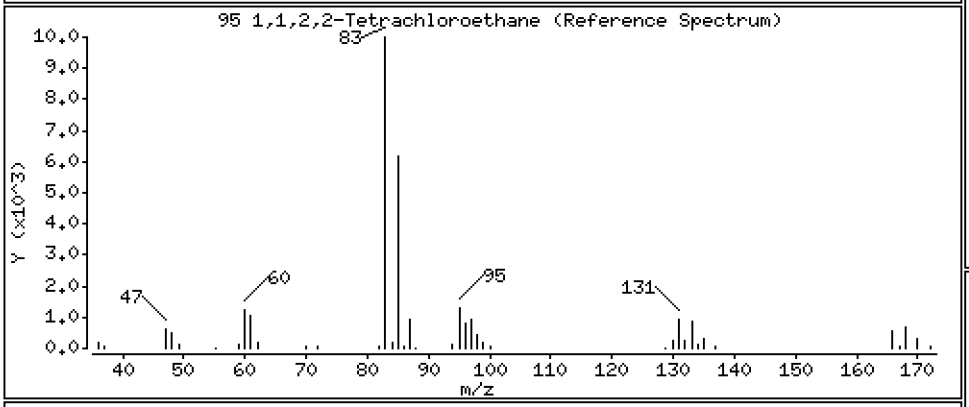
Purge Volume: 5.0 Operator: DD

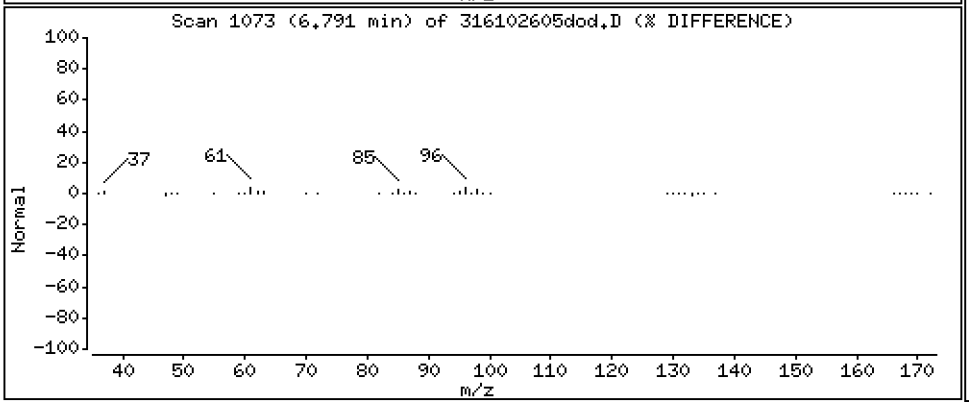
Column phase: DB-VRX Column diameter: 0.25

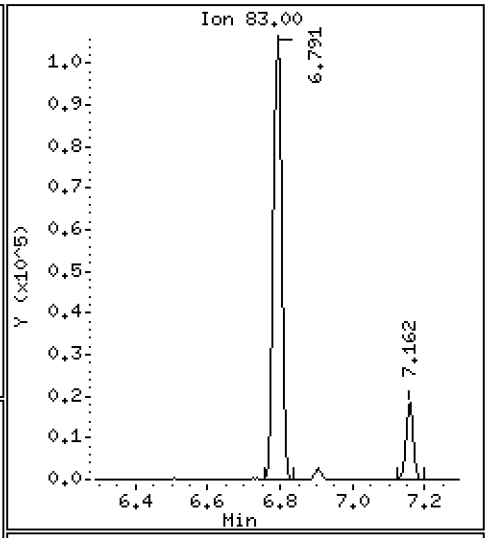
95 1,1,2,2-Tetrachloroethane Concentration: 20.0461 ug/L

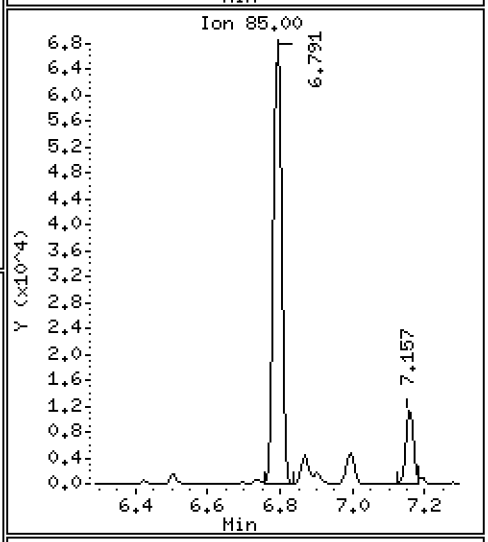


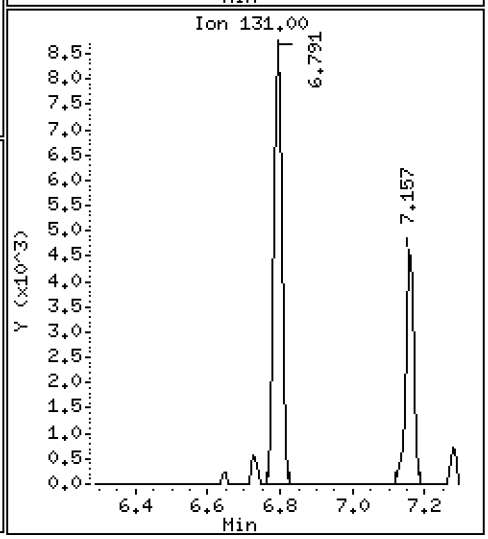












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 102

Date : 26-OCT-2016 10:55

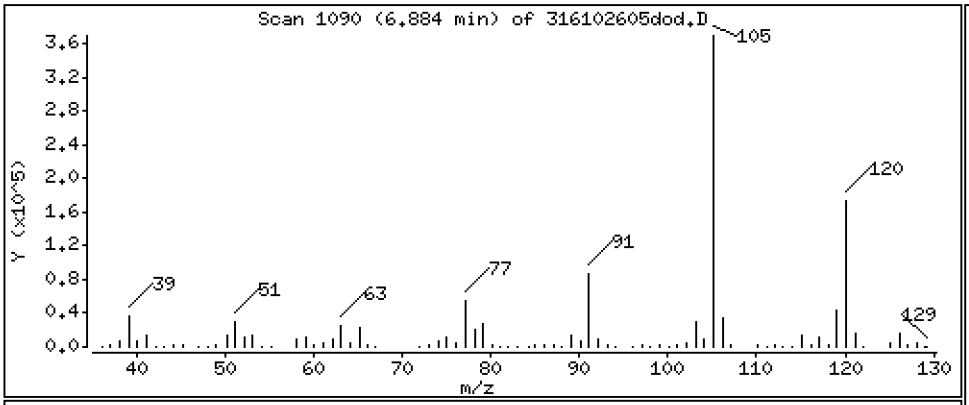
Client ID: LCS for HBN 174350 Instrument: ms03.i

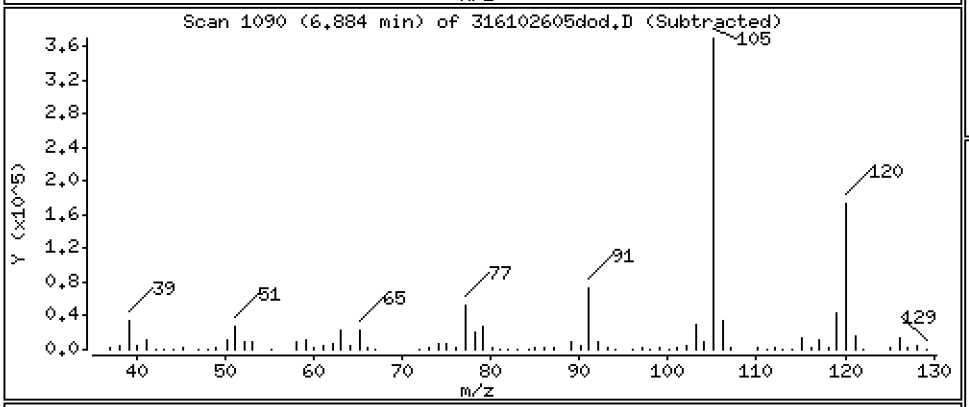
Sample Info: 2429648;;1;3;;LCS;1;

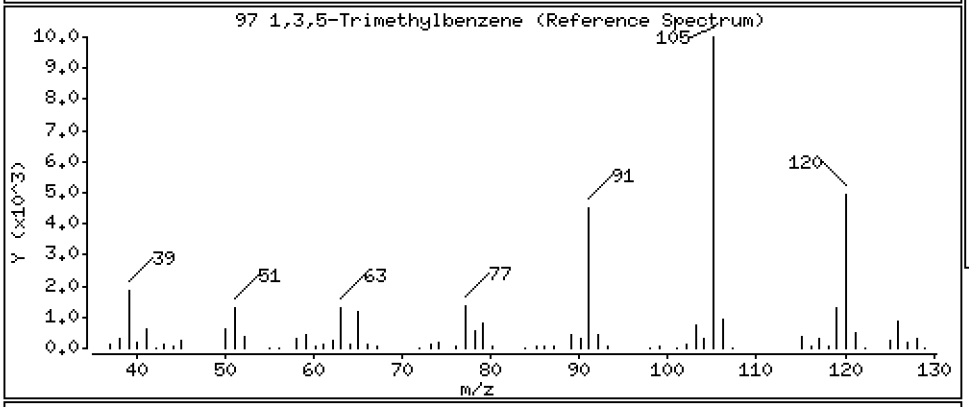
Purge Volume: 5.0 Operator: DD

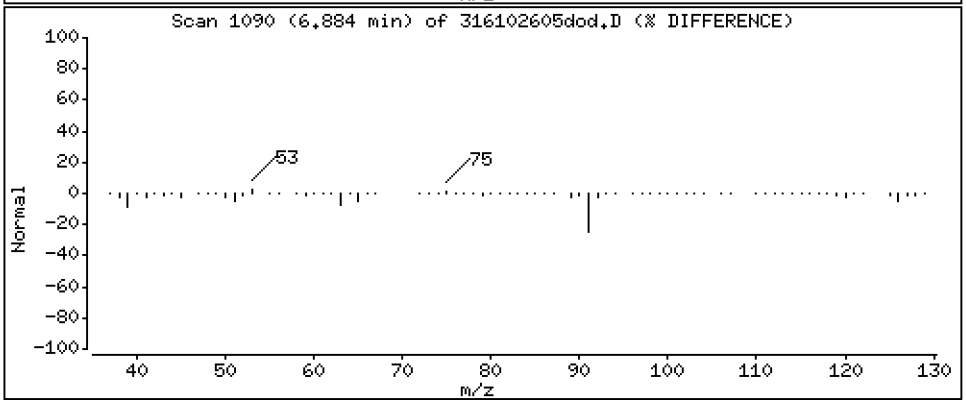
Column phase: DB-VRX Column diameter: 0.25

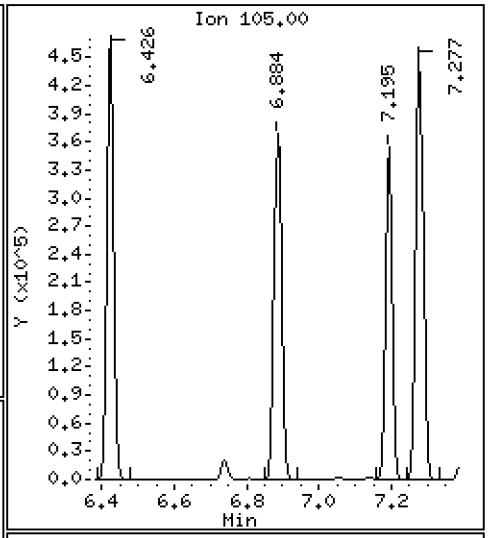
97 1,3,5-Trimethylbenzene Concentration: 21.6197 ug/L

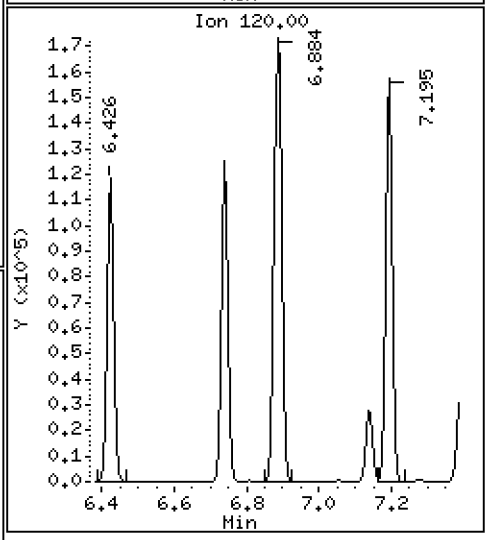












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 103

Date : 26-OCT-2016 10:55

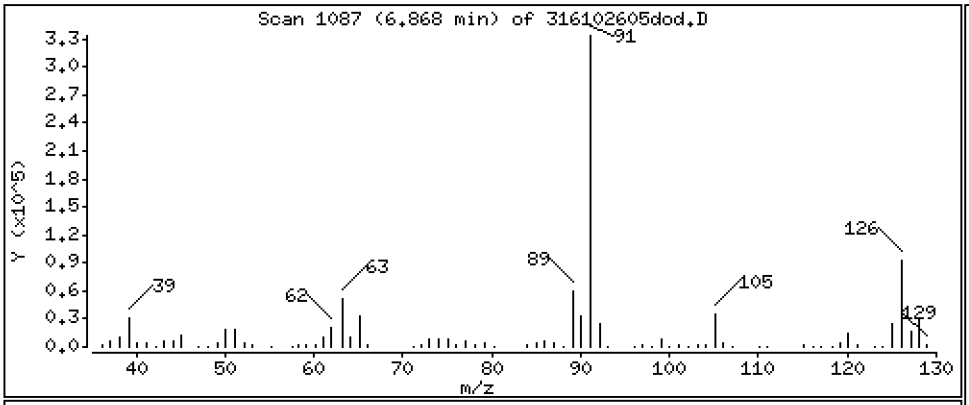
Client ID: LCS for HBN 174350 Instrument: ms03.i

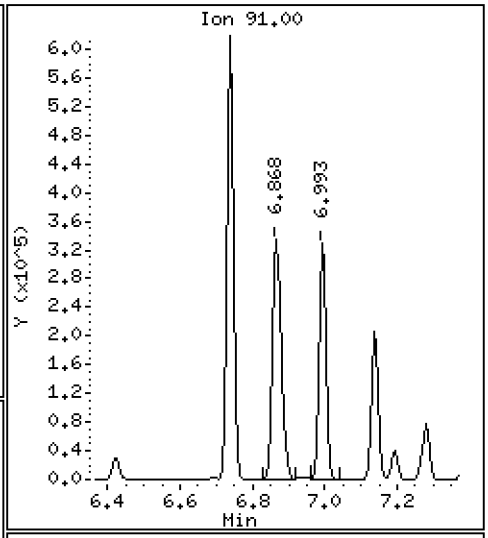
Sample Info: 2429648;;1;3;;LCS;1;

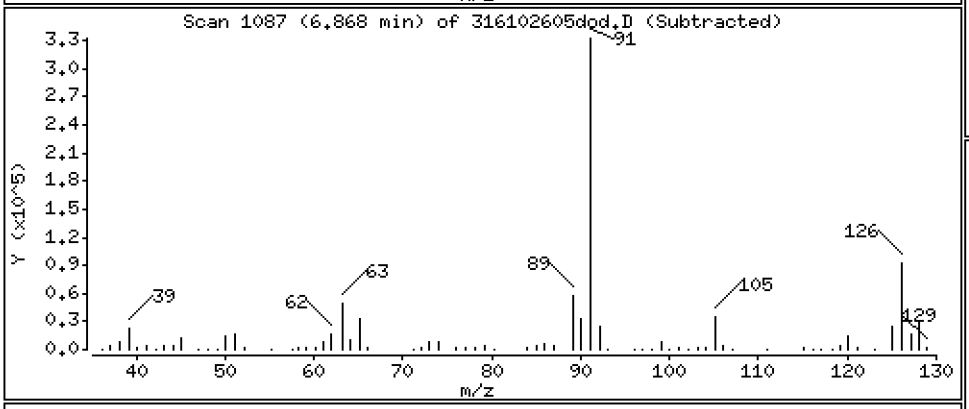
Purge Volume: 5.0 Operator: DD

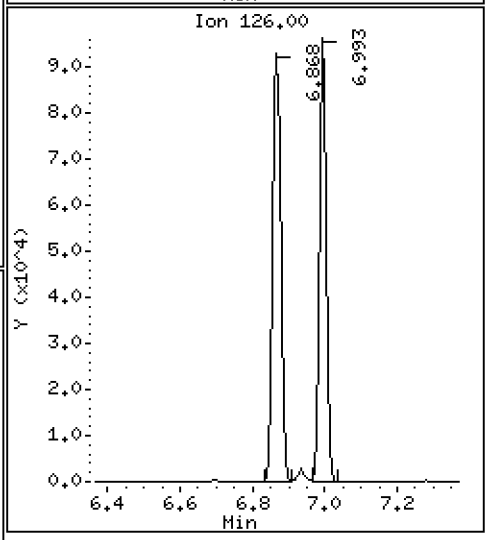
Column phase: DB-VRX Column diameter: 0.25

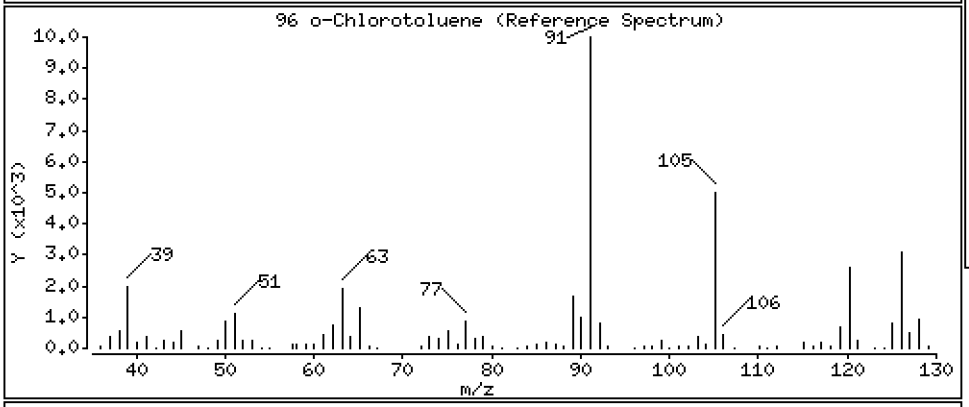
96 o-Chlorotoluene Concentration: 20.8195 ug/L

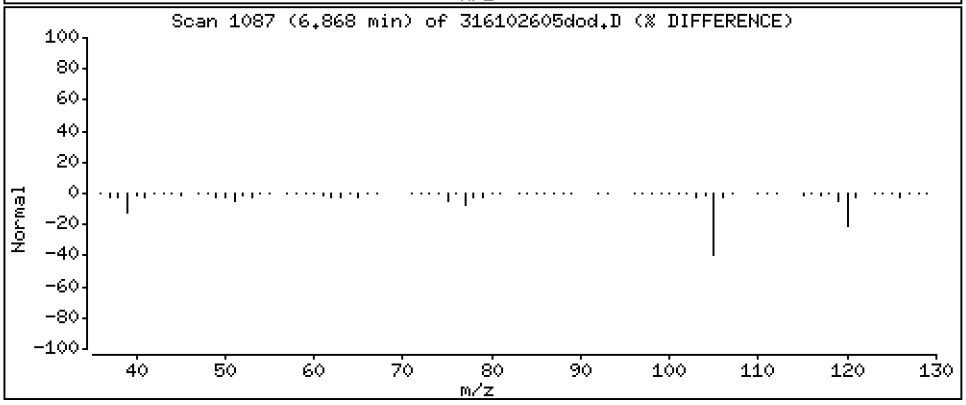












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 104

Date : 26-OCT-2016 10:55

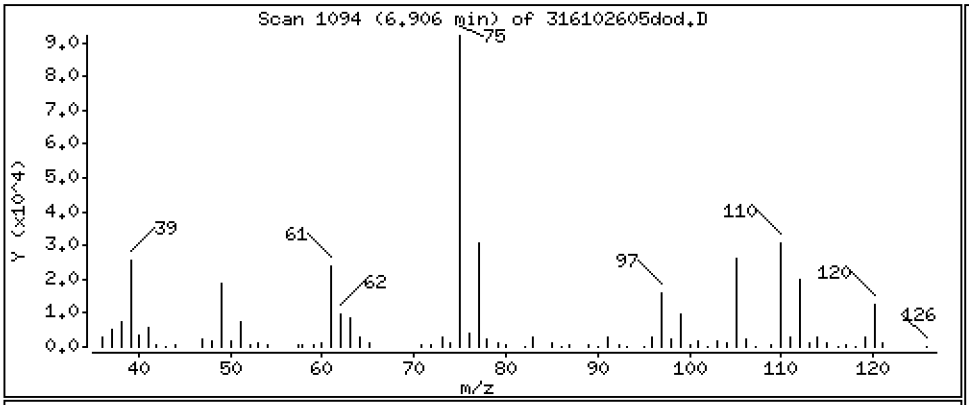
Client ID: LCS for HBN 174350 Instrument: ms03.i

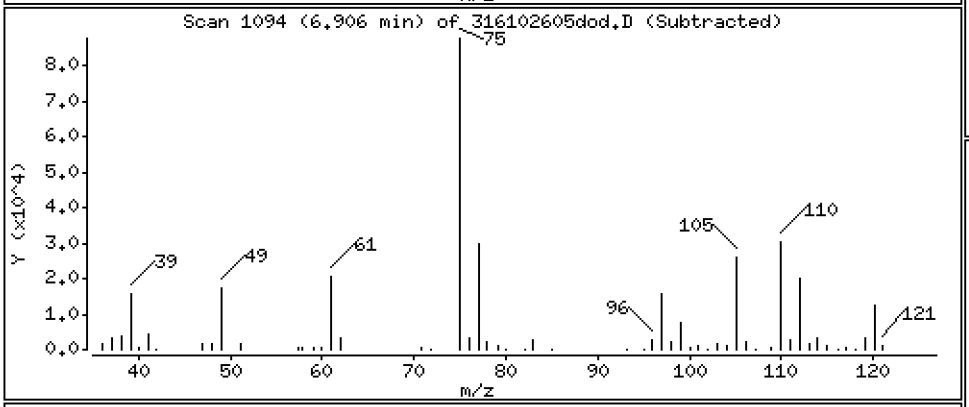
Sample Info: 2429648;;1;3;;LCS;1;

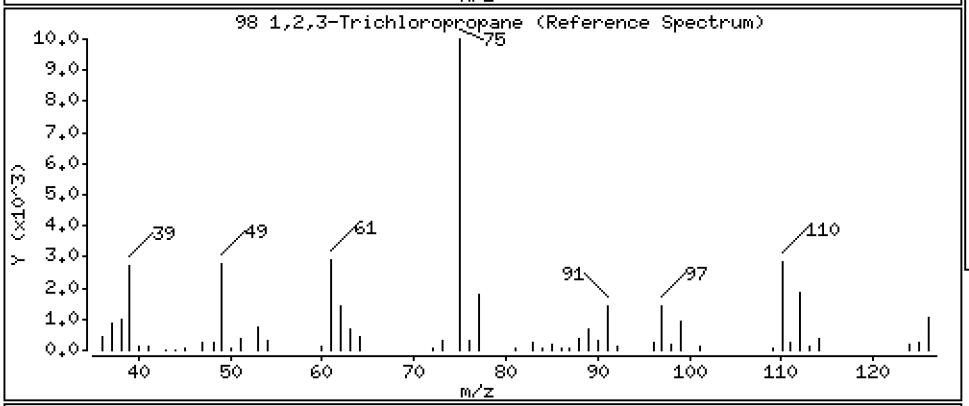
Purge Volume: 5.0 Operator: DD

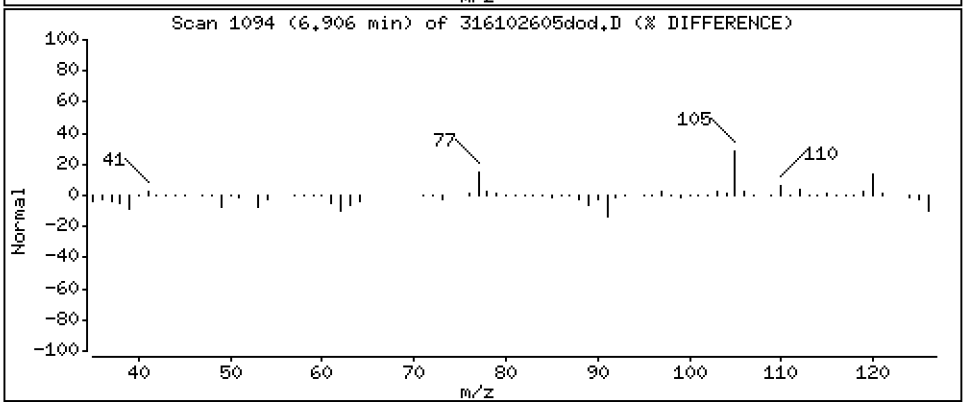
Column phase: DB-VRX Column diameter: 0.25

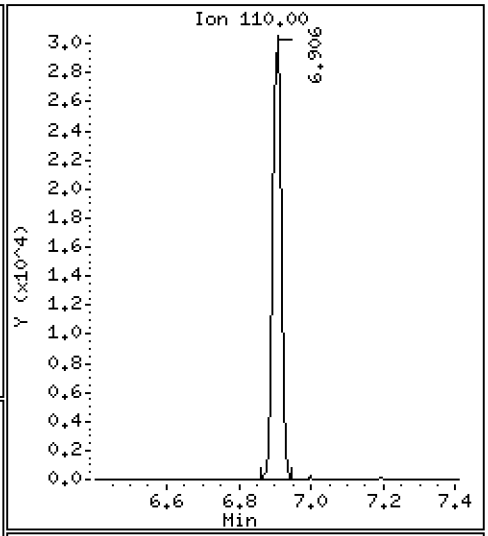
98 1,2,3-Trichloropropane Concentration: 19.6977 ug/L

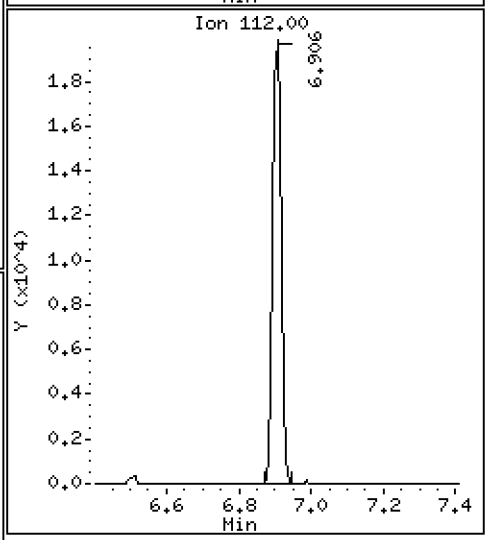












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 105

Date : 26-OCT-2016 10:55

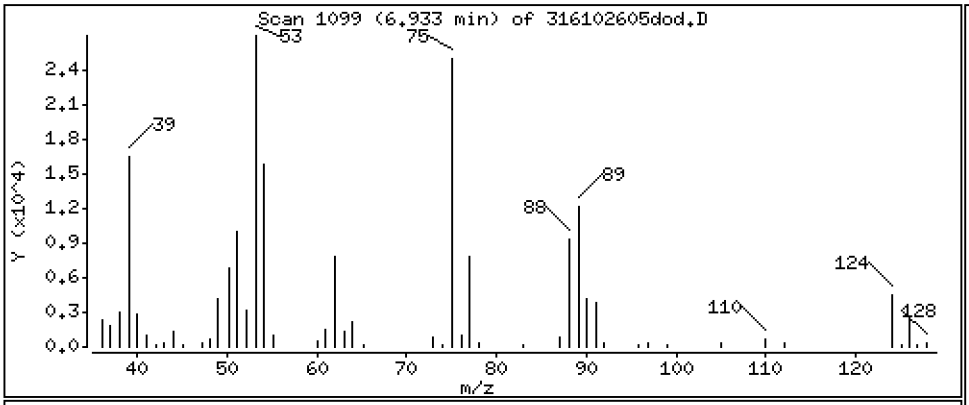
Client ID: LCS for HBN 174350 Instrument: ms03.i

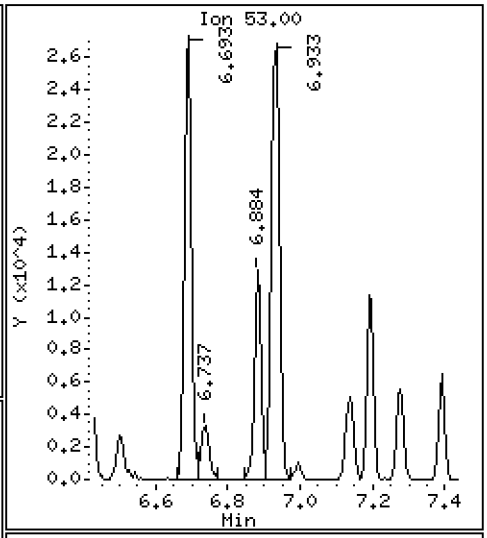
Sample Info: 2429648;;1;3;;LCS;1;

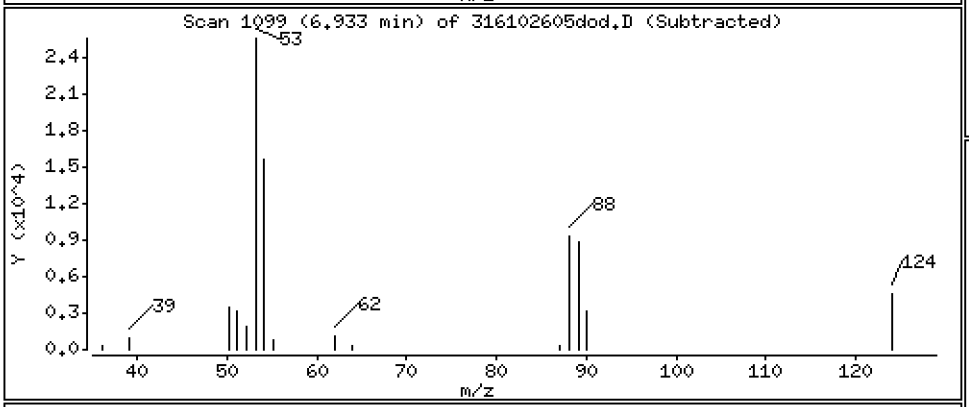
Purge Volume: 5.0 Operator: DD

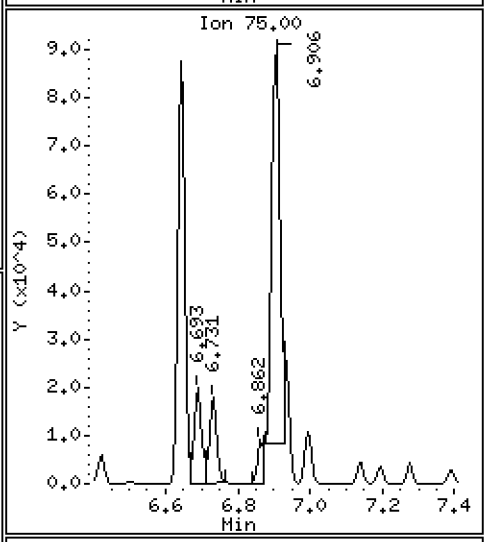
Column phase: DB-VRX Column diameter: 0.25

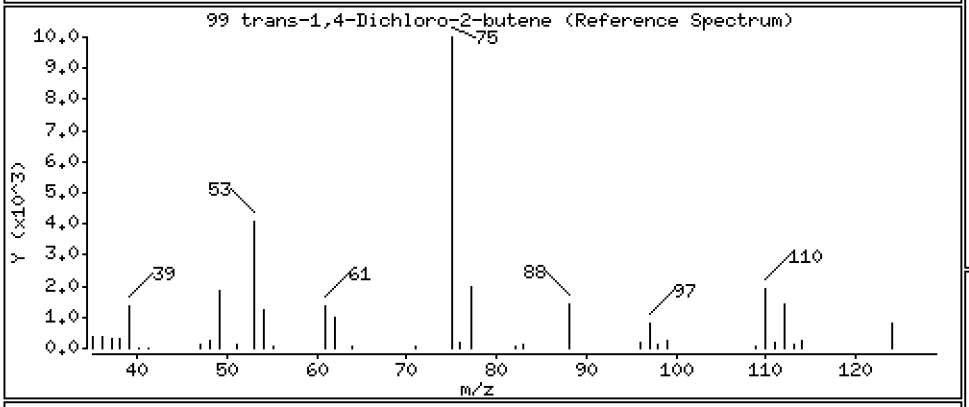
99 trans-1,4-Dichloro-2-butene Concentration: 21.0689 ug/L

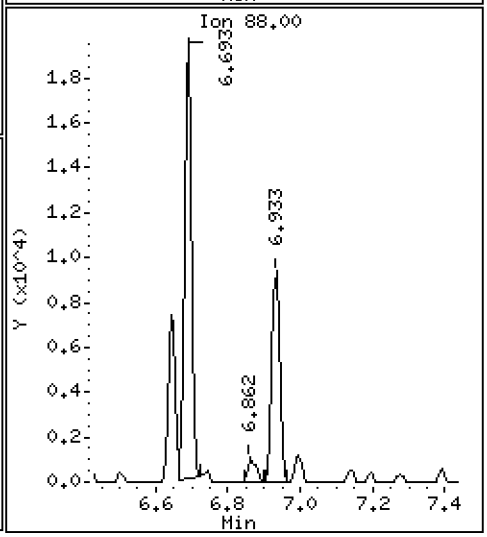


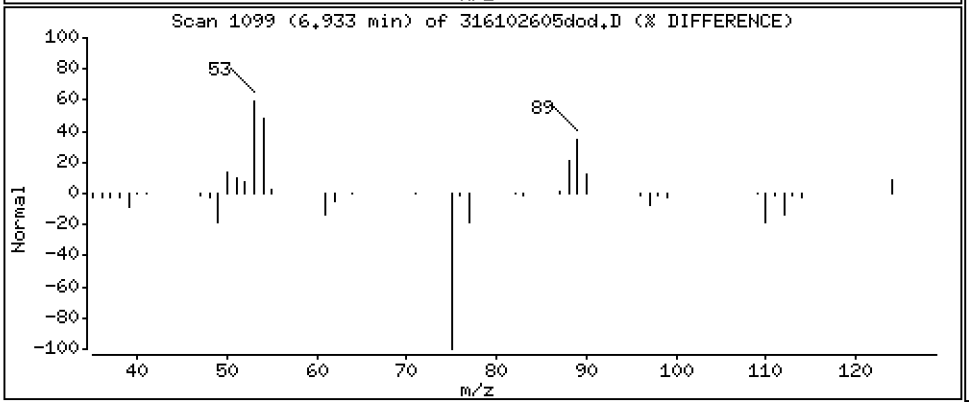












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 106

Date : 26-OCT-2016 10:55

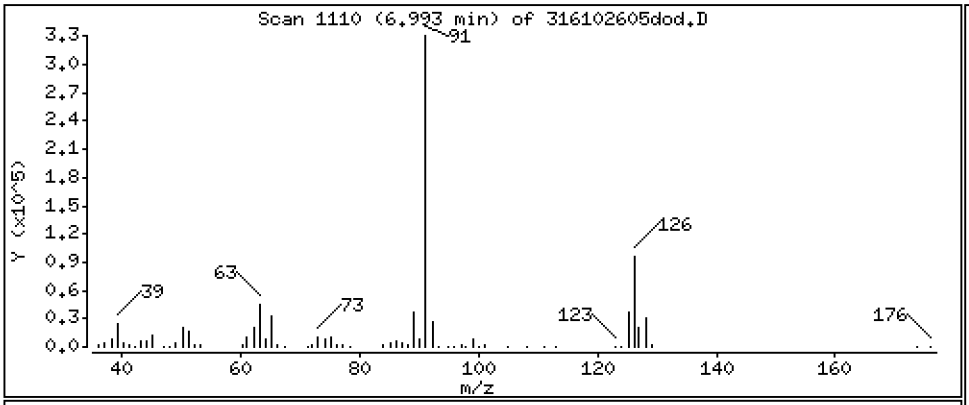
Client ID: LCS for HBN 174350 Instrument: ms03.i

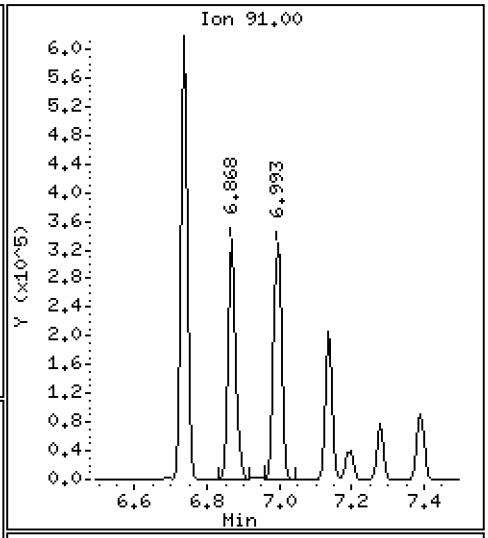
Sample Info: 2429648;;1;3;;LCS;1;

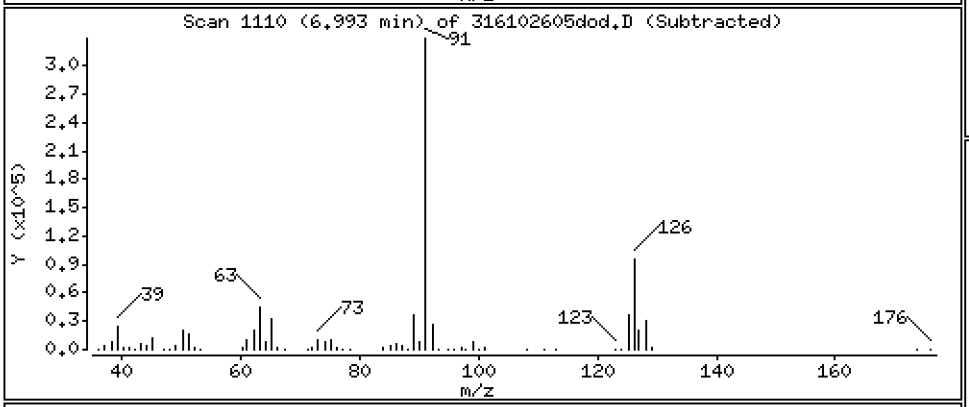
Purge Volume: 5.0 Operator: DD

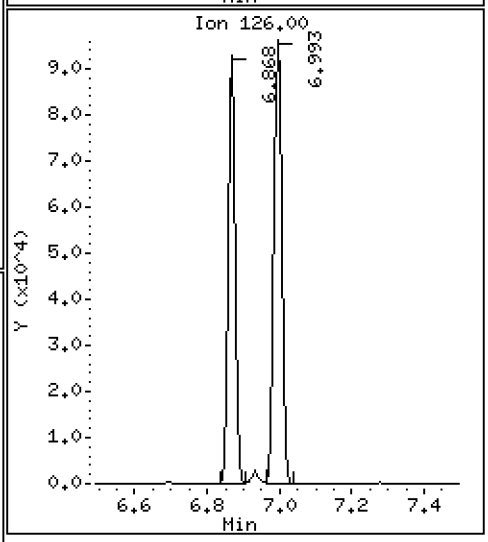
Column phase: DB-VRX Column diameter: 0.25

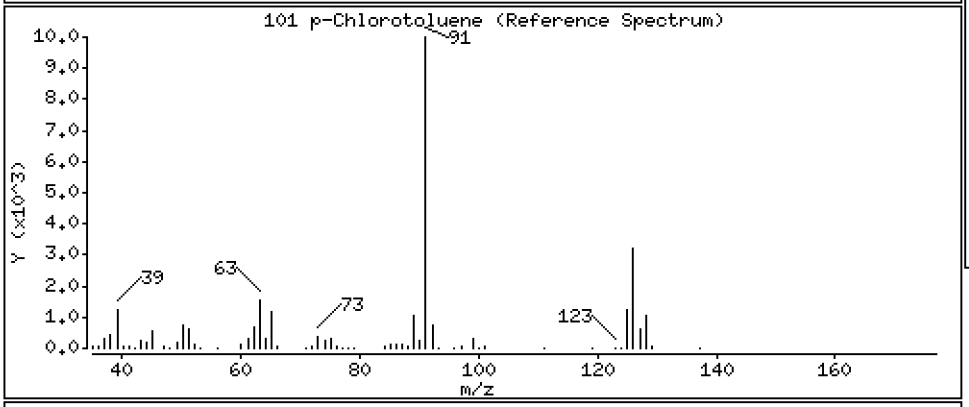
101 p-Chlorotoluene Concentration: 20.5575 ug/L

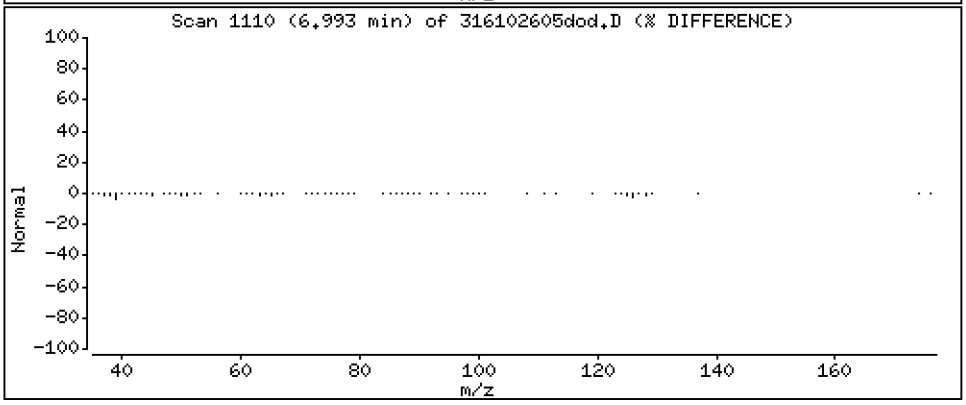












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 107

Date : 26-OCT-2016 10:55

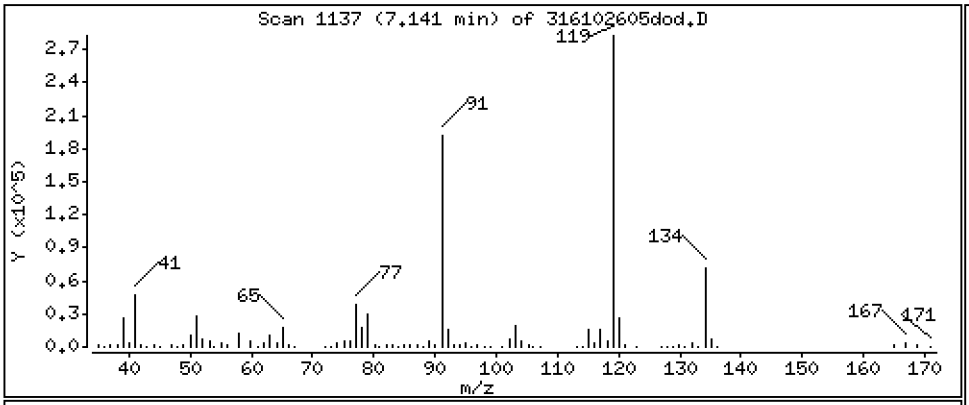
Client ID: LCS for HBN 174350 Instrument: ms03.i

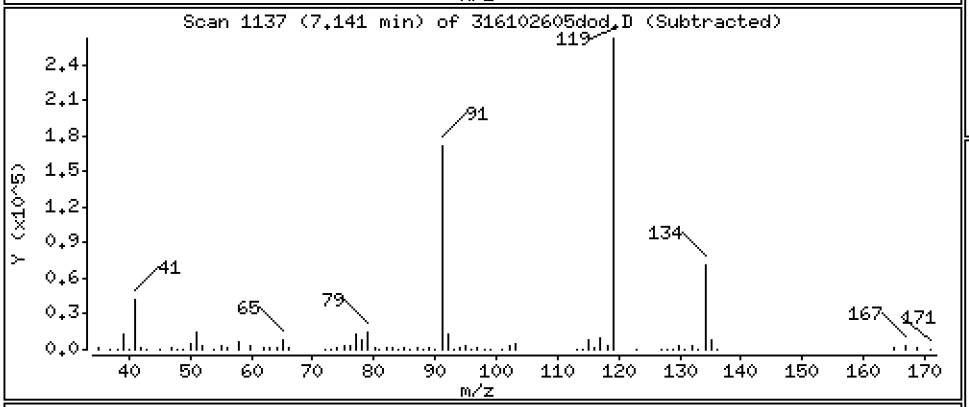
Sample Info: 2429648;;1;3;;LCS;1;

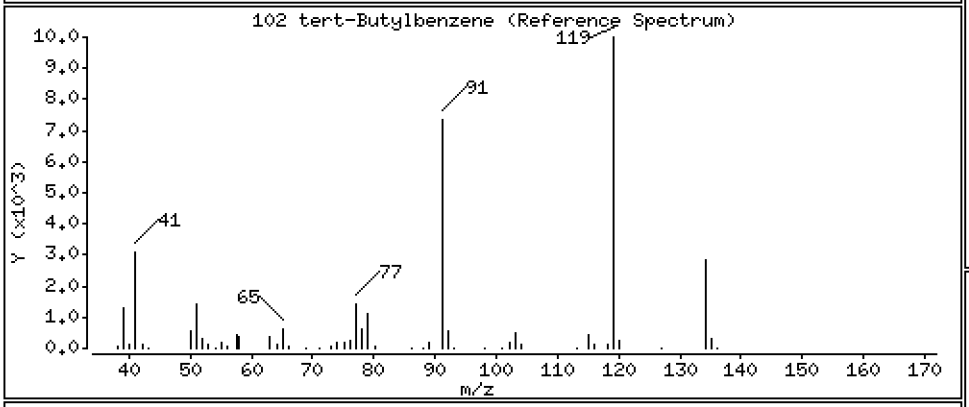
Purge Volume: 5.0 Operator: DD

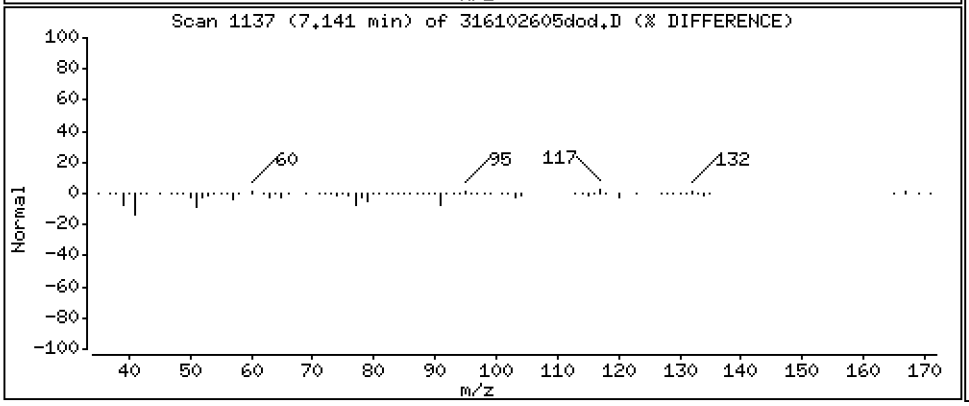
Column phase: DB-VRX Column diameter: 0.25

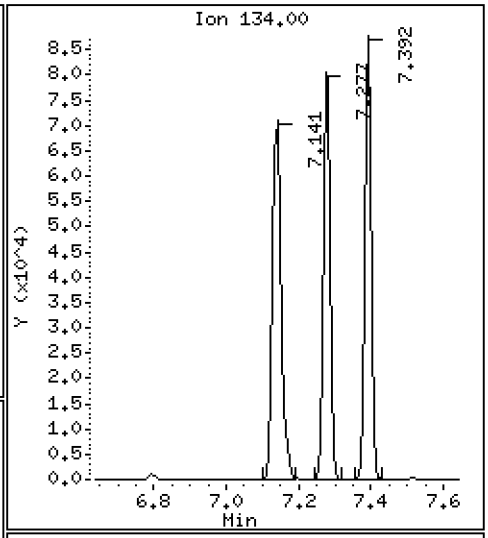
102 tert-Butylbenzene Concentration: 20.6795 ug/L

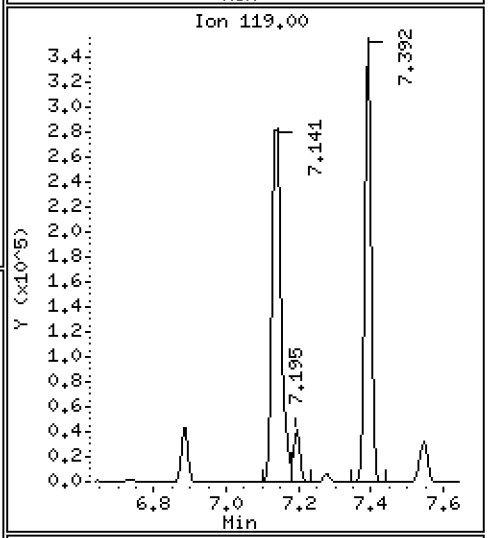


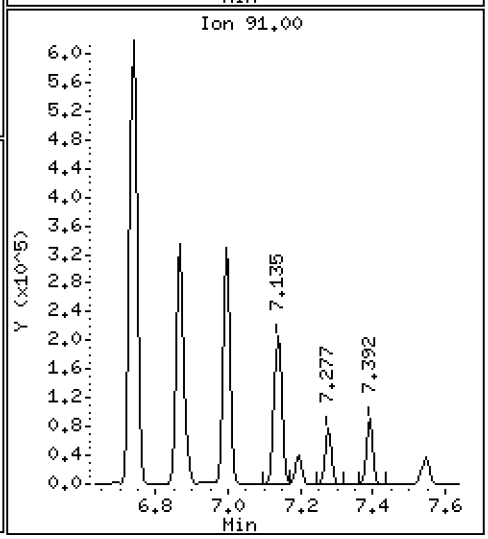












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 108

Date : 26-OCT-2016 10:55

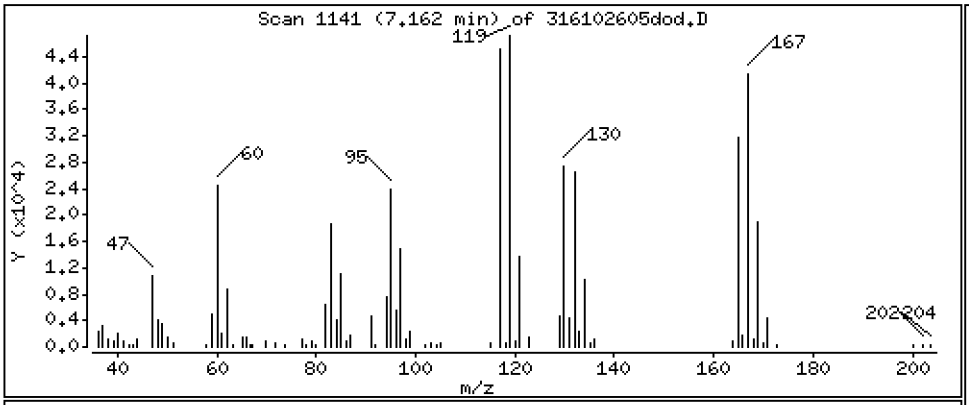
Client ID: LCS for HBN 174350 Instrument: ms03.i

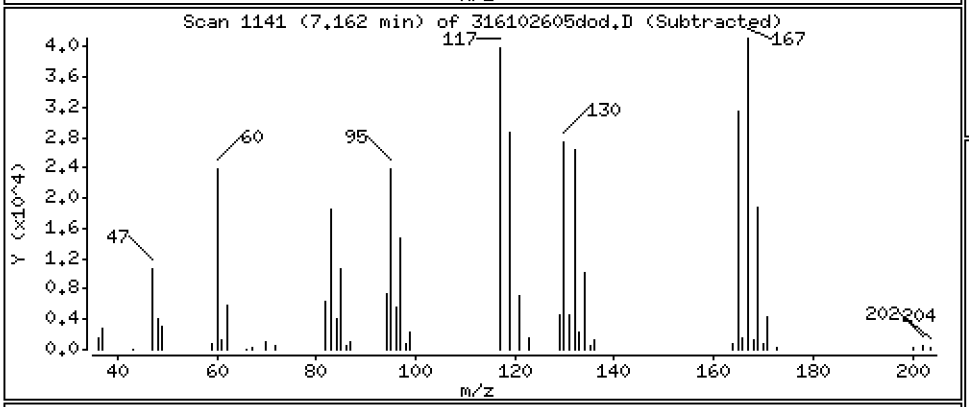
Sample Info: 2429648;;1;3;;LCS;1;

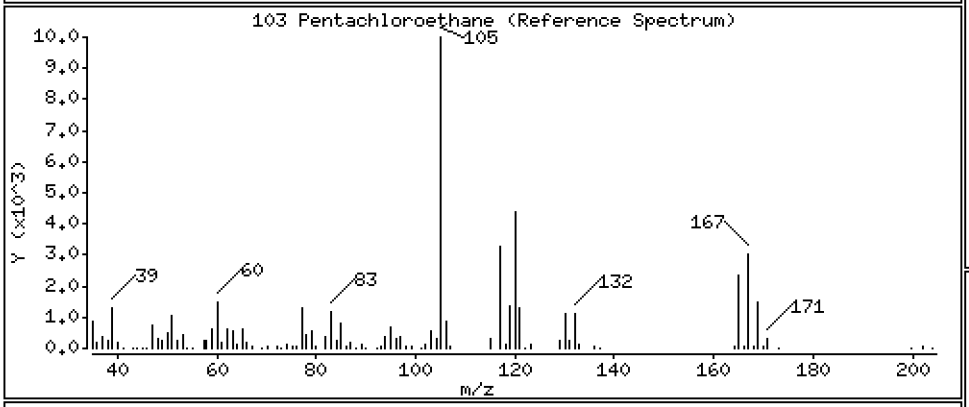
Purge Volume: 5.0 Operator: DD

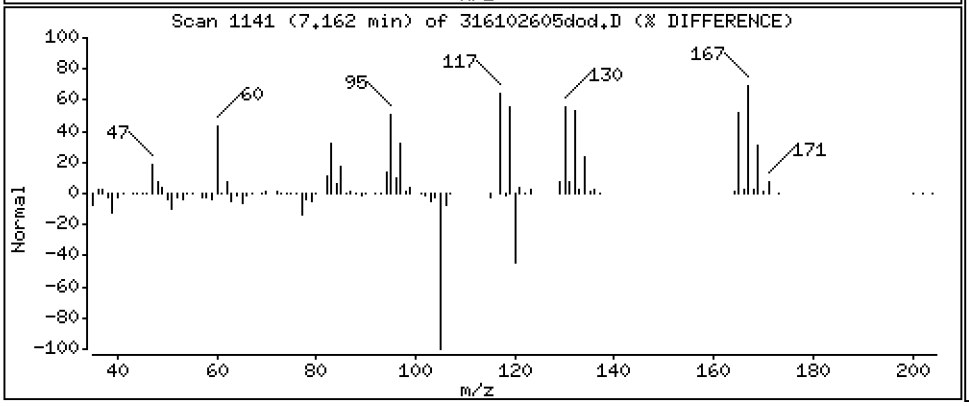
Column phase: DB-VRX Column diameter: 0.25

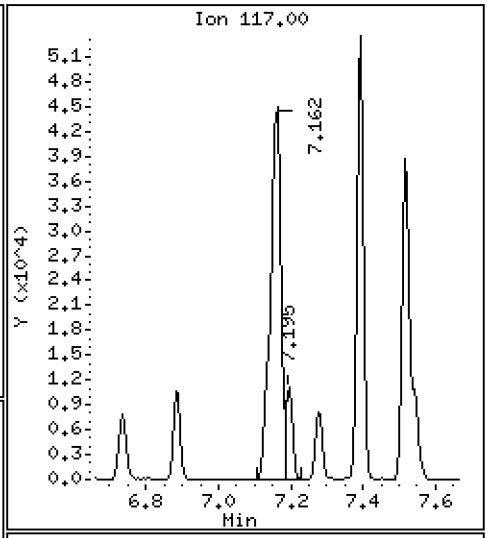
103 Pentachloroethane Concentration: 19.5306 ug/L

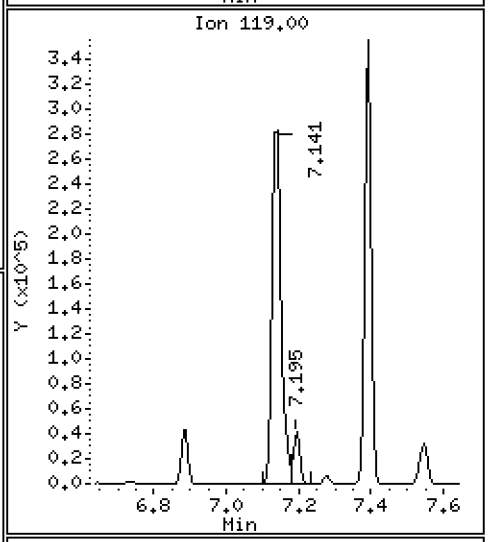


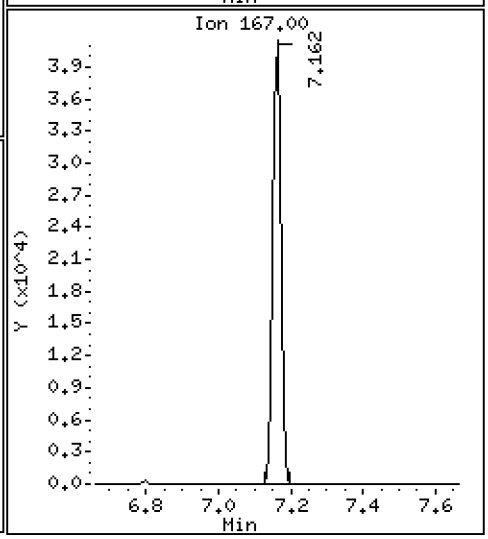












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 109

Date : 26-OCT-2016 10:55

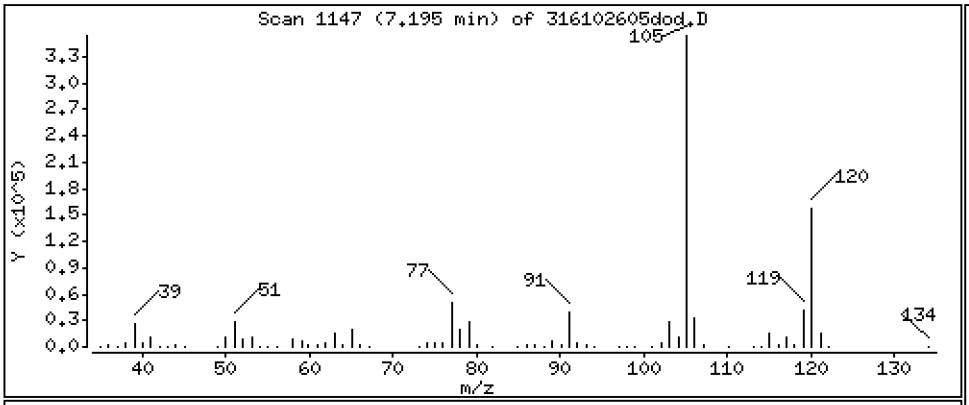
Client ID: LCS for HBN 174350 Instrument: ms03.i

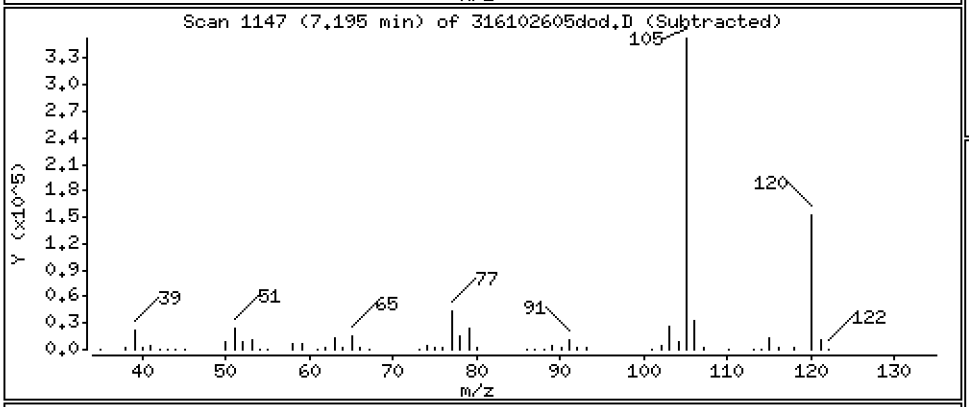
Sample Info: 2429648;;1;3;;LCS;1;

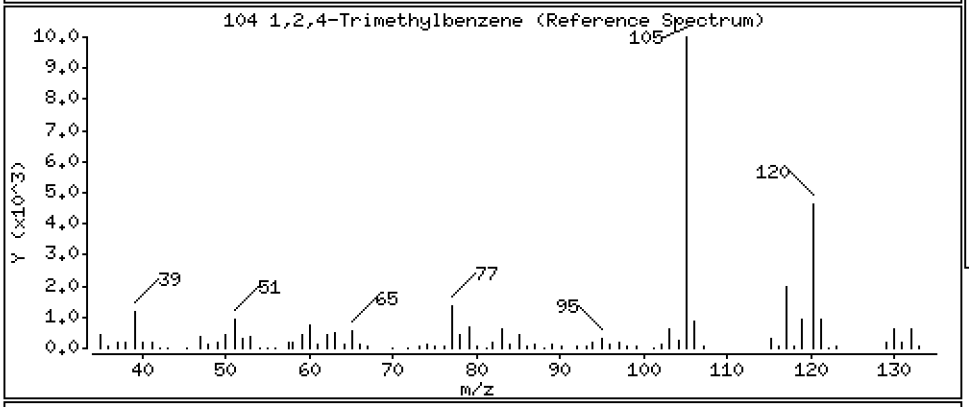
Purge Volume: 5.0 Operator: DD

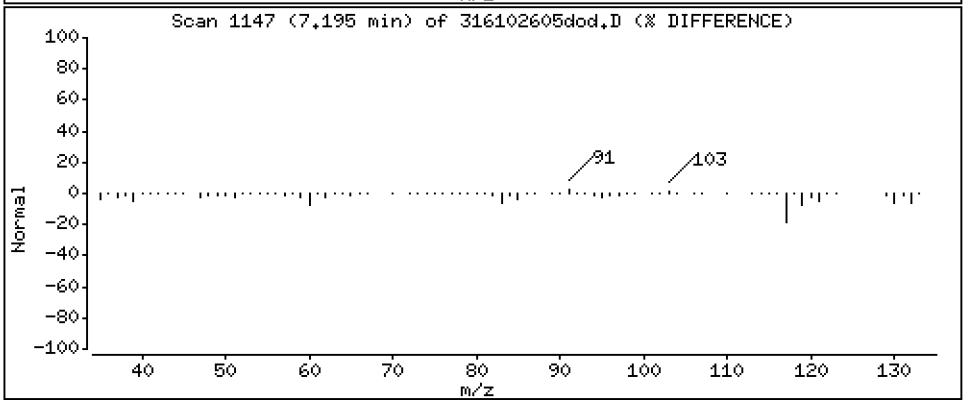
Column phase: DB-VRX Column diameter: 0.25

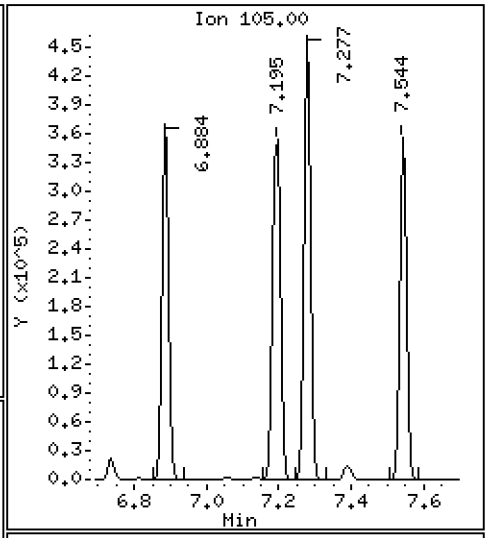
104 1,2,4-Trimethylbenzene Concentration: 21.3627 ug/L

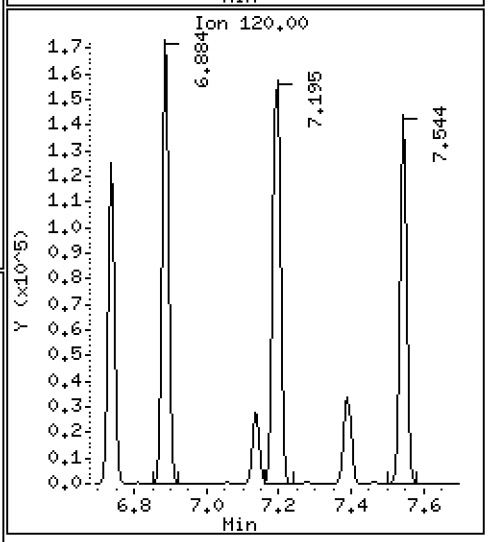












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 110

Date : 26-OCT-2016 10:55

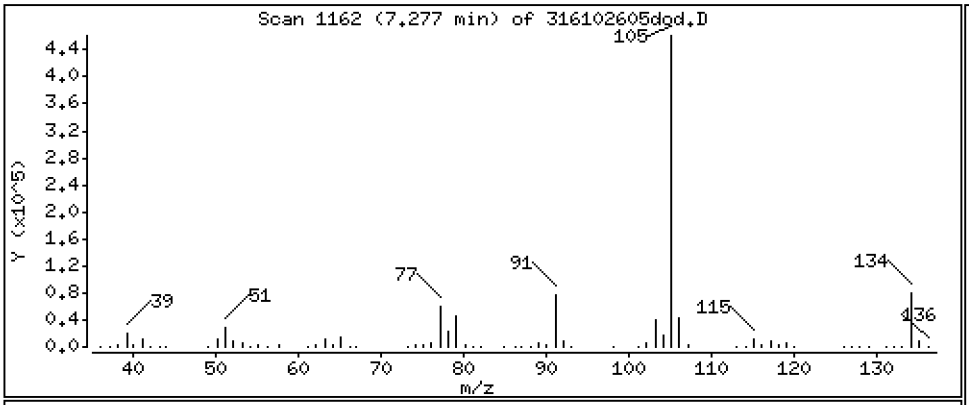
Client ID: LCS for HBN 174350 Instrument: ms03.i

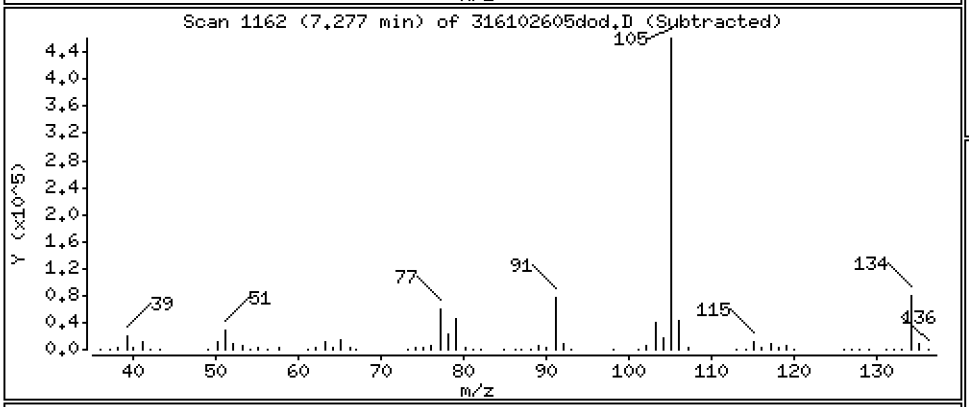
Sample Info: 2429648;;1;3;;LCS;1;

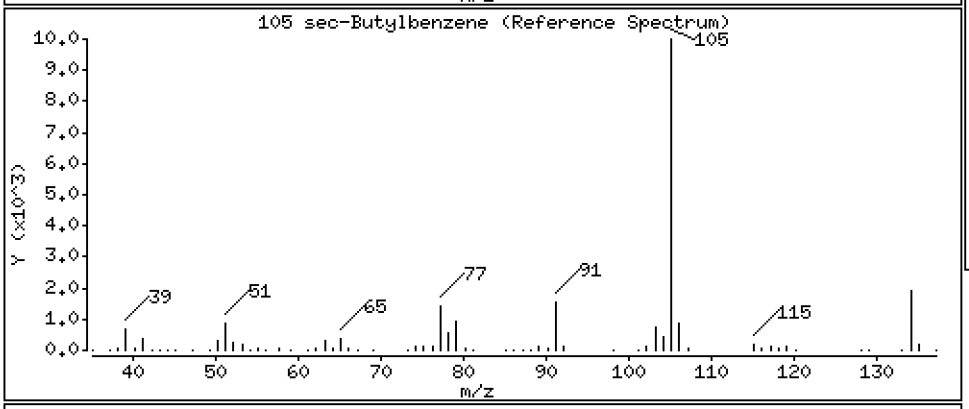
Purge Volume: 5.0 Operator: DD

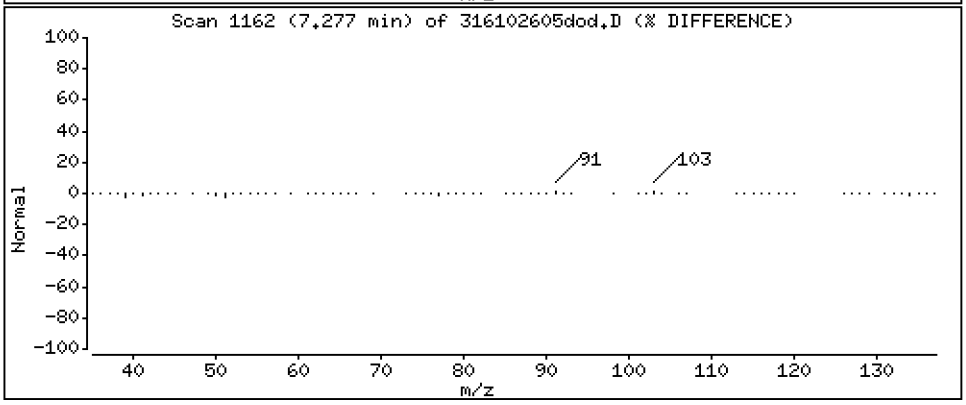
Column phase: DB-VRX Column diameter: 0.25

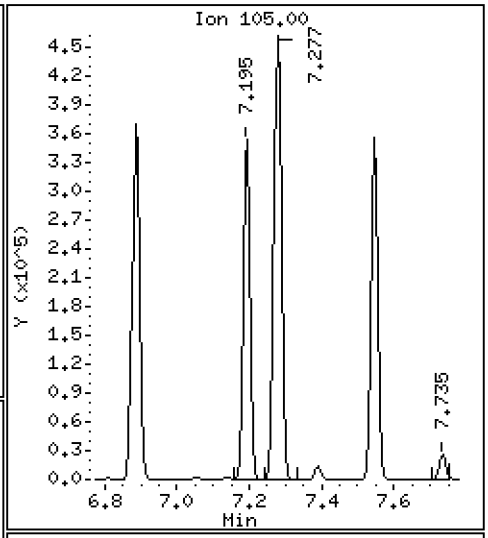
105 sec-Butylbenzene Concentration: 21.2901 ug/L

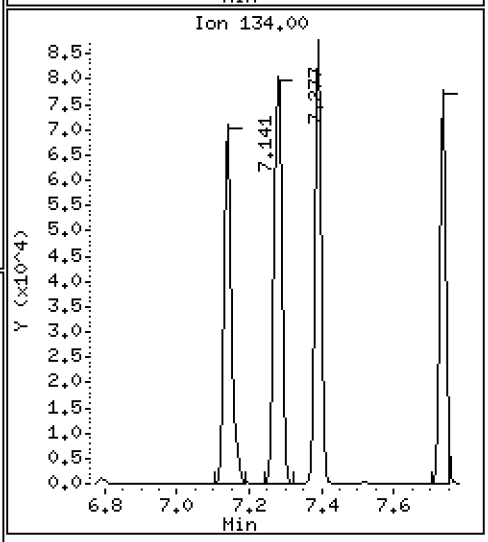












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 111

Date : 26-OCT-2016 10:55

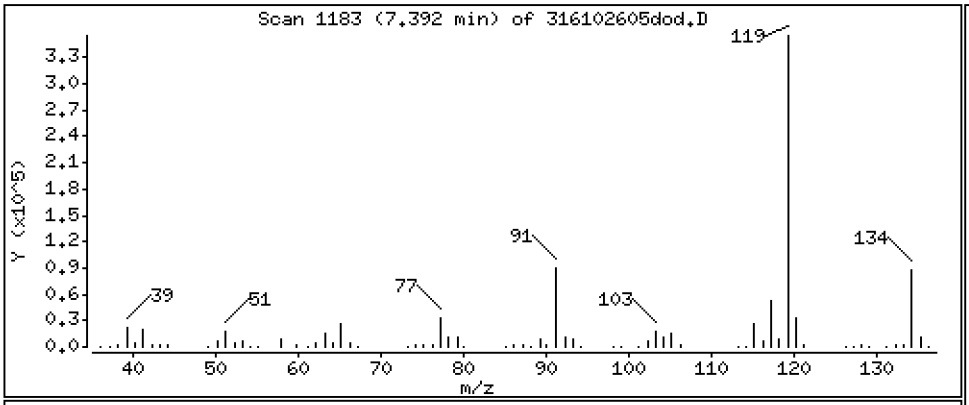
Client ID: LCS for HBN 174350 Instrument: ms03.i

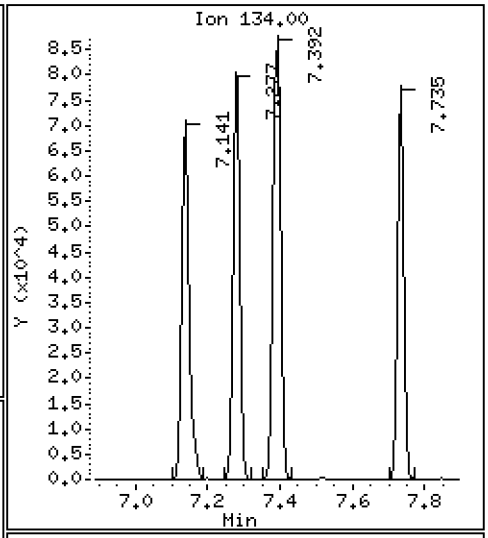
Sample Info: 2429648;;1;3;;LCS;1;

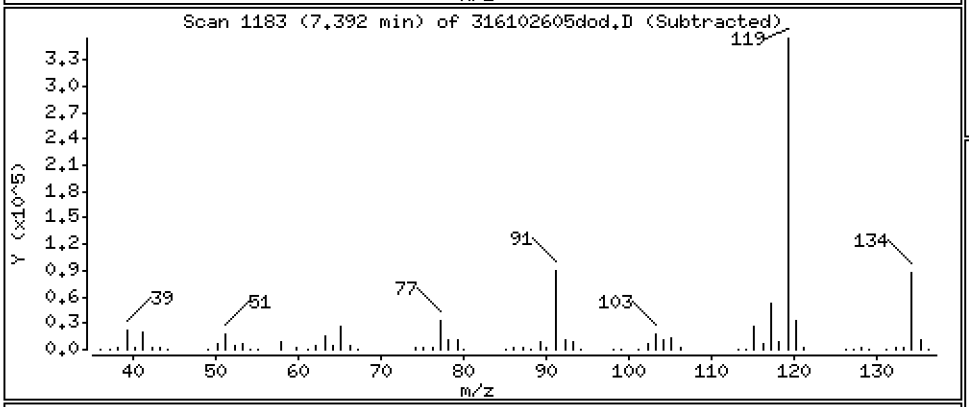
Purge Volume: 5.0 Operator: DD

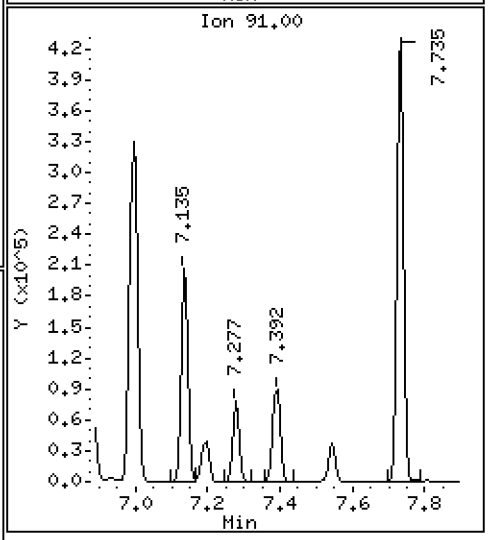
Column phase: DB-VRX Column diameter: 0.25

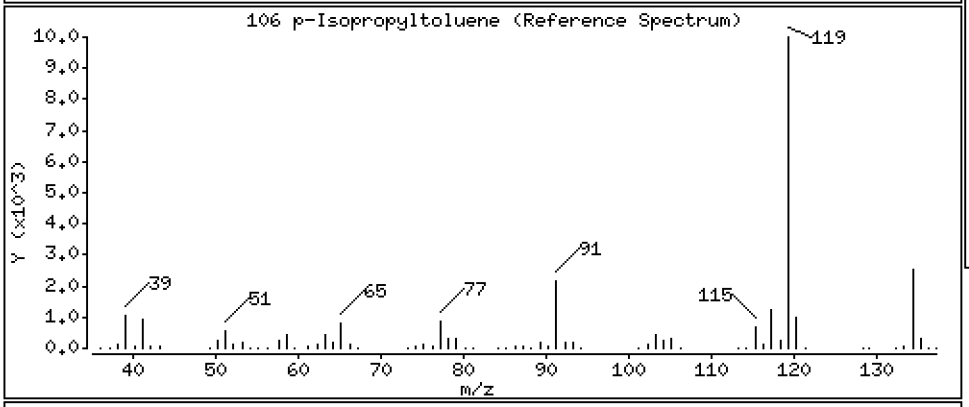
106 p-Isopropyltoluene Concentration: 20.7755 ug/L

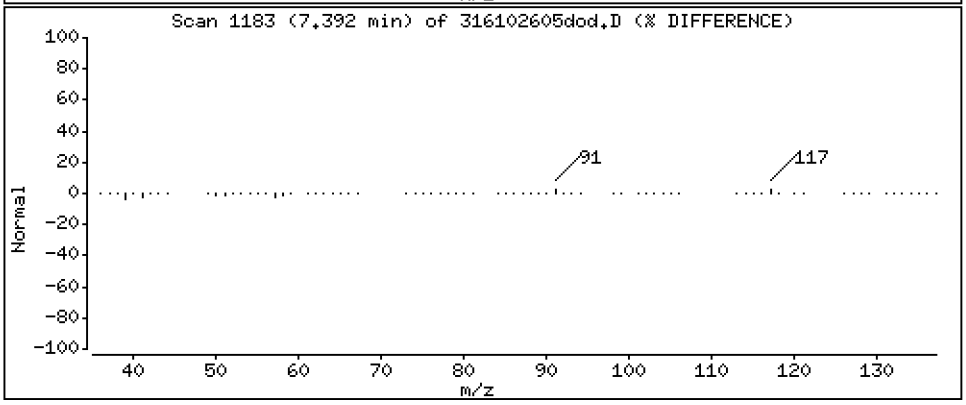












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 112

Date : 26-OCT-2016 10:55

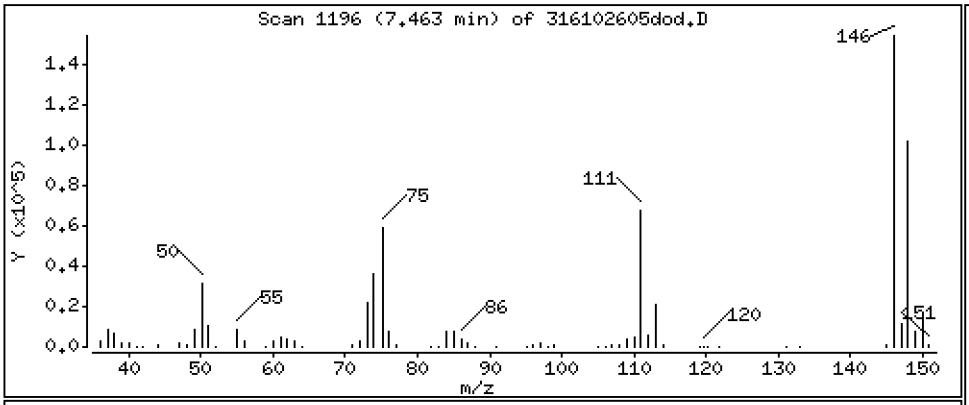
Client ID: LCS for HBN 174350 Instrument: ms03.i

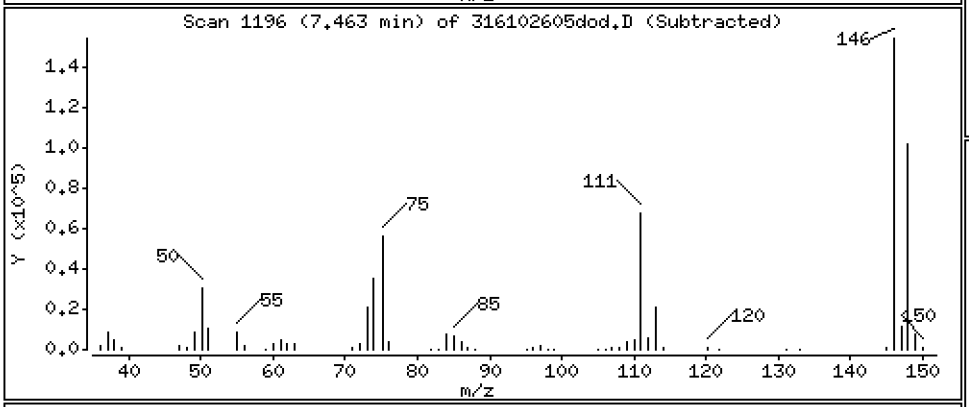
Sample Info: 2429648;;1;3;;LCS;1;

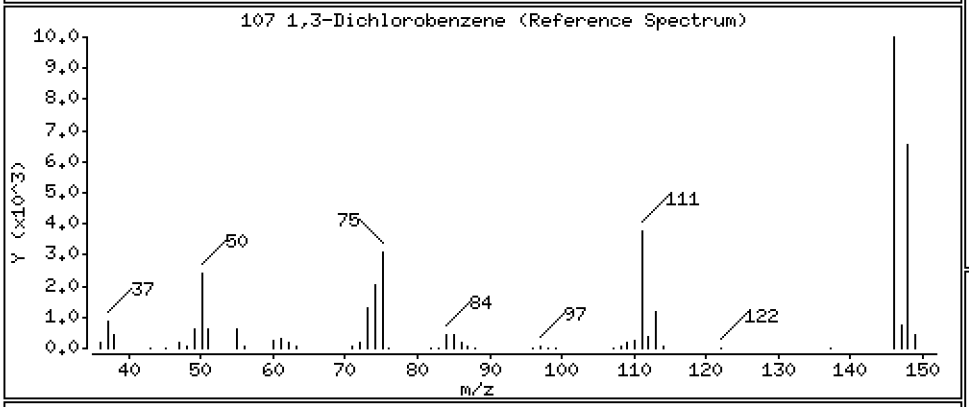
Purge Volume: 5.0 Operator: DD

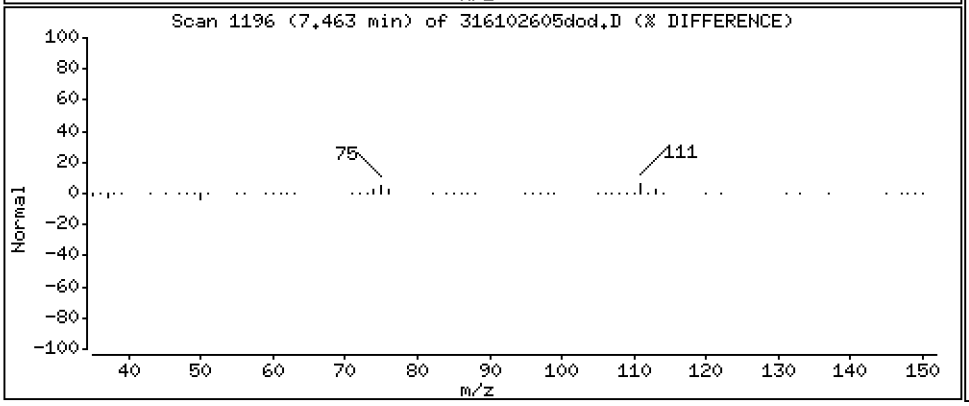
Column phase: DB-VRX Column diameter: 0.25

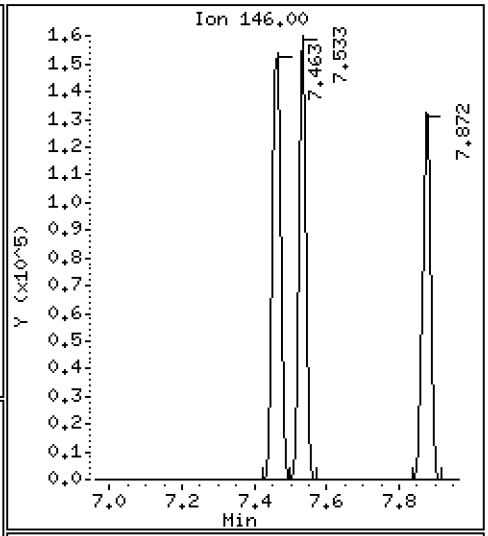
107 1,3-Dichlorobenzene Concentration: 20.6119 ug/L

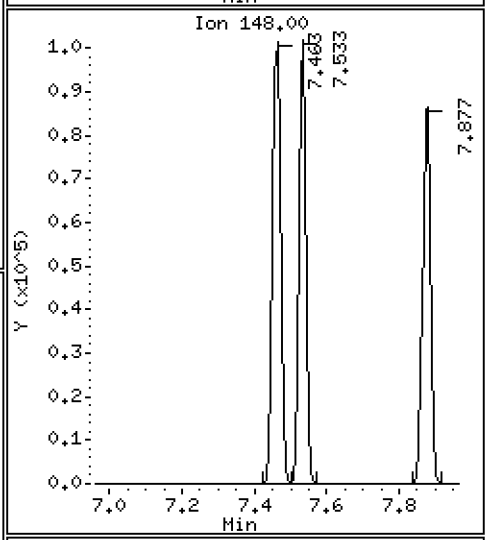


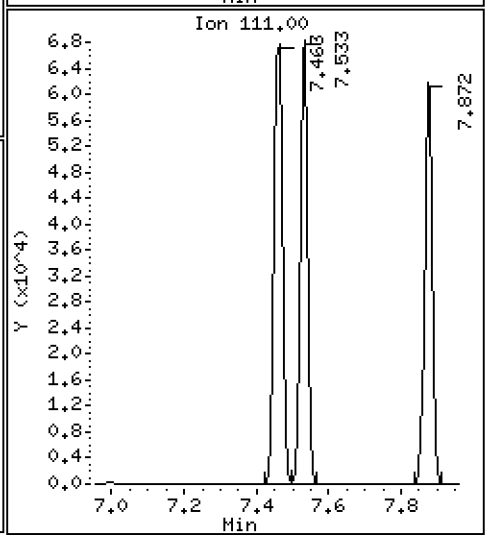












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 113

Date : 26-OCT-2016 10:55

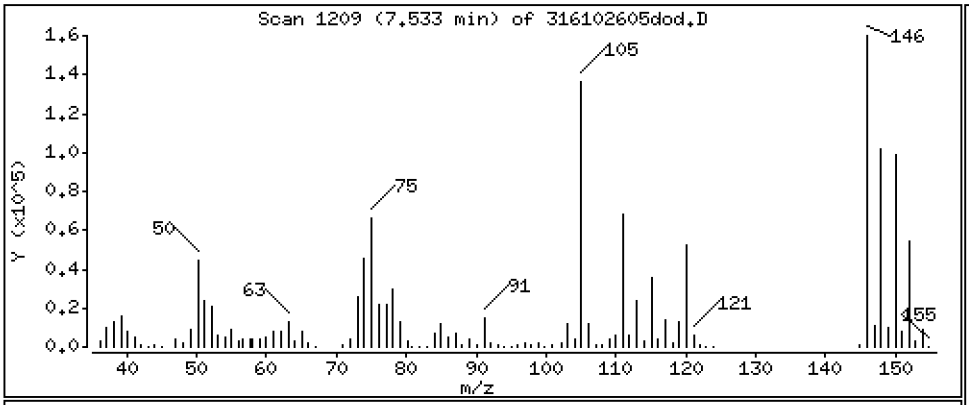
Client ID: LCS for HBN 174350 Instrument: ms03.i

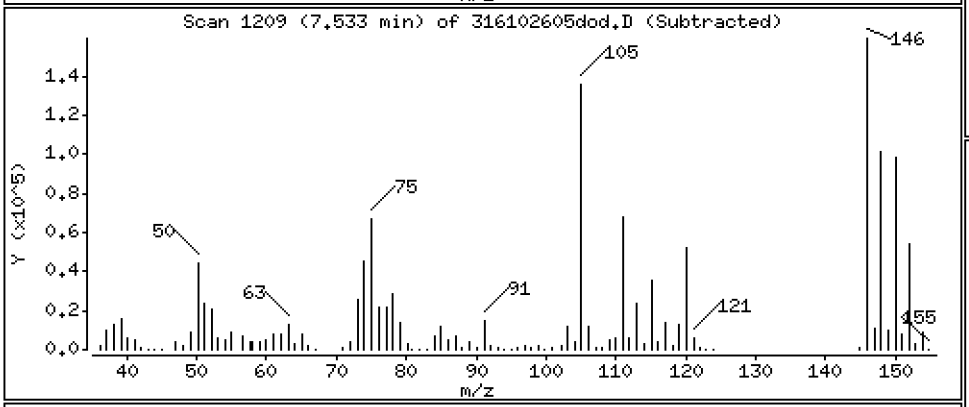
Sample Info: 2429648;;1;3;;LCS;1;

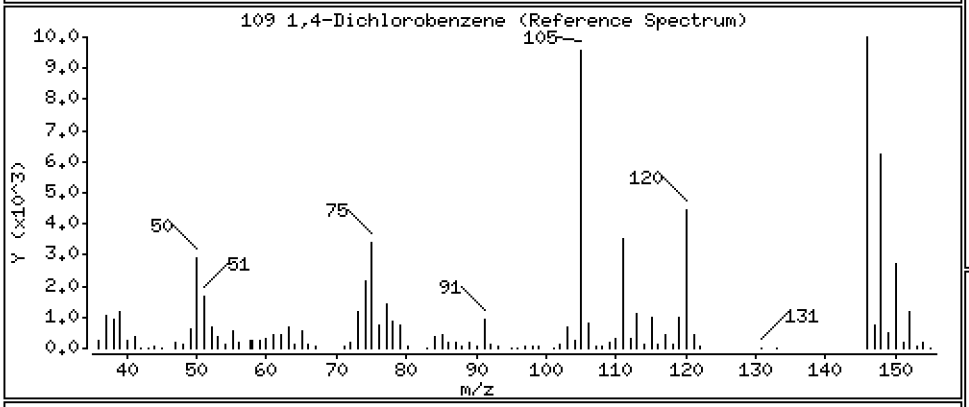
Purge Volume: 5.0 Operator: DD

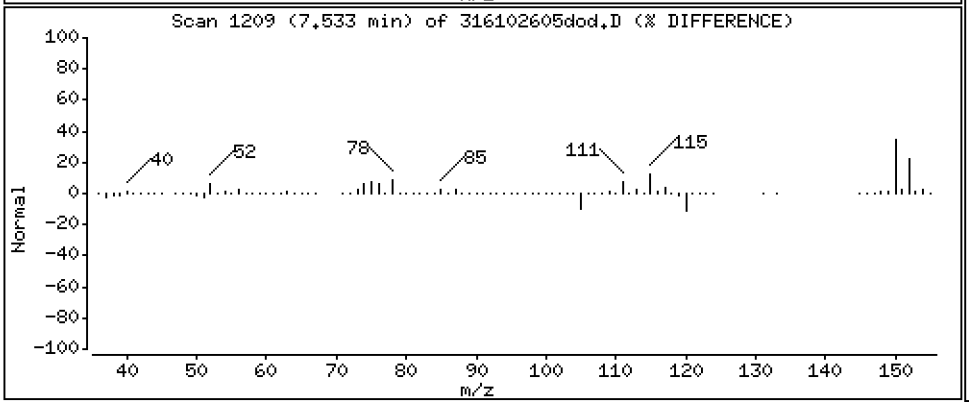
Column phase: DB-VRX Column diameter: 0.25

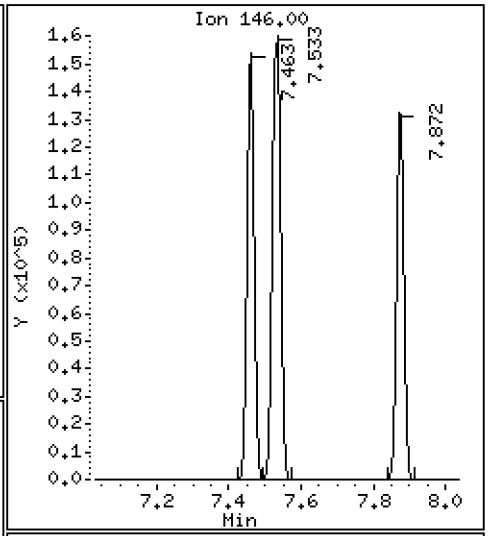
109 1,4-Dichlorobenzene Concentration: 20.8872 ug/L

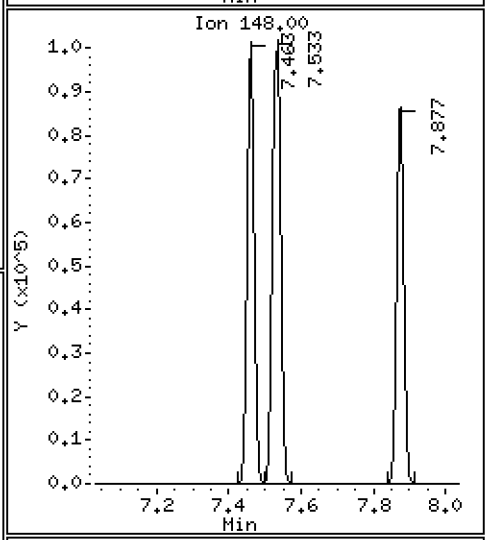


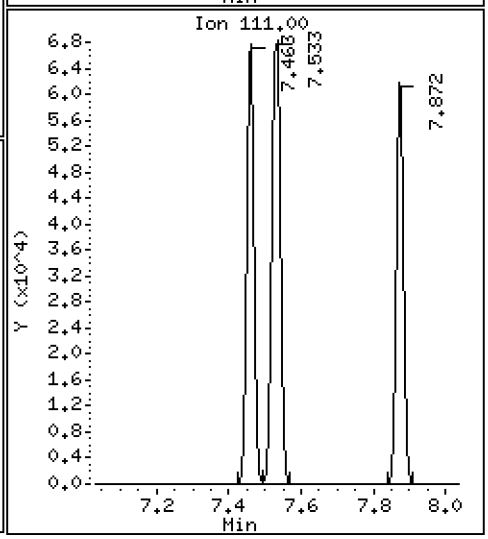












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 114

Date : 26-OCT-2016 10:55

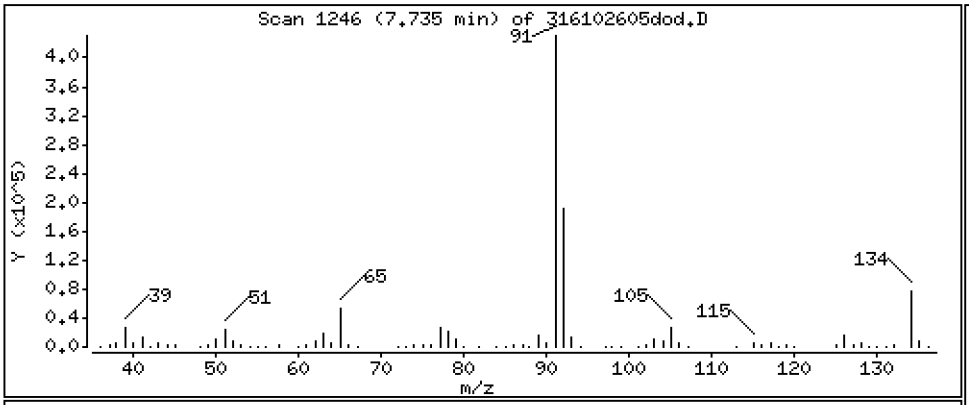
Client ID: LCS for HBN 174350 Instrument: ms03.i

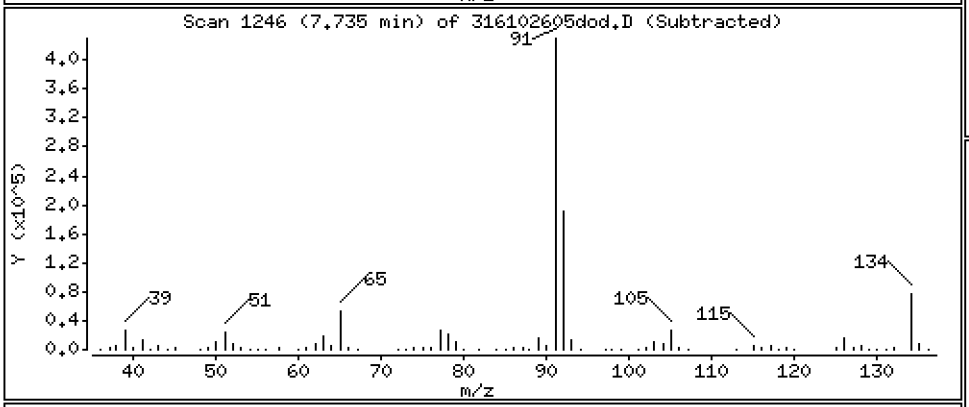
Sample Info: 2429648;;1;3;;LCS;1;

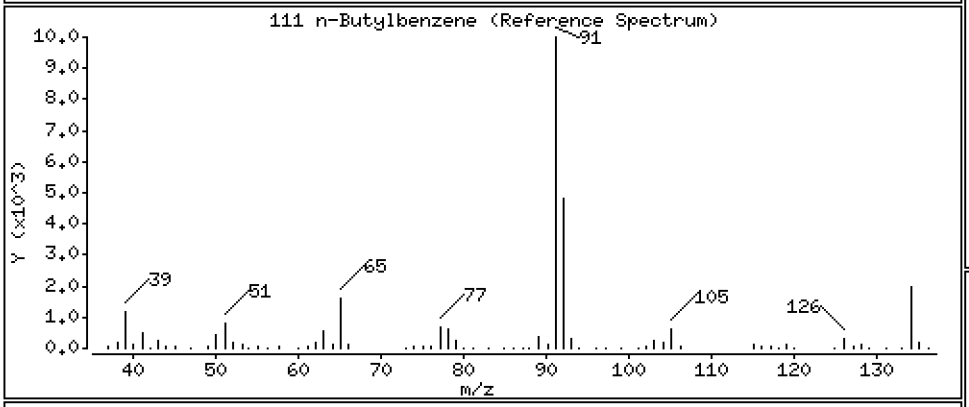
Purge Volume: 5.0 Operator: DD

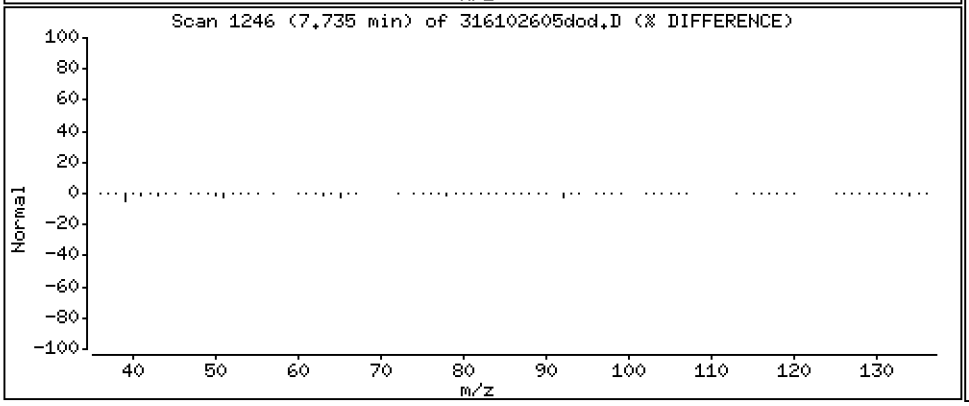
Column phase: DB-VRX Column diameter: 0.25

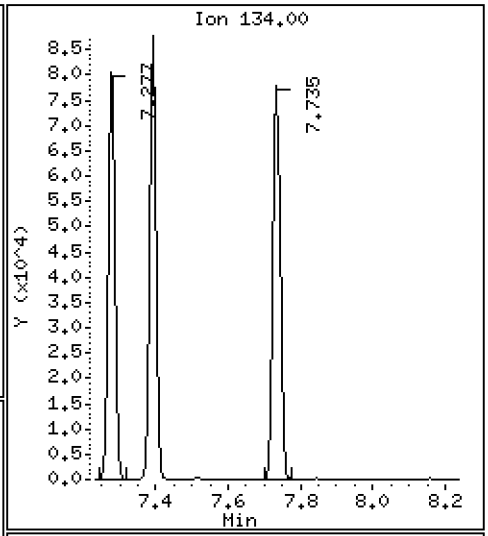
111 n-Butylbenzene Concentration: 20.2492 ug/L

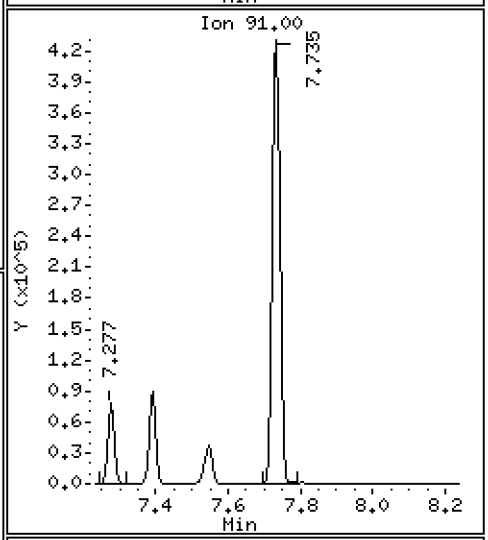


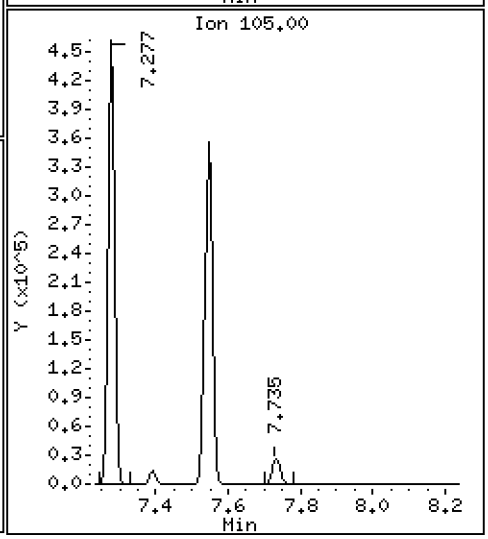












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 115

Date : 26-OCT-2016 10:55

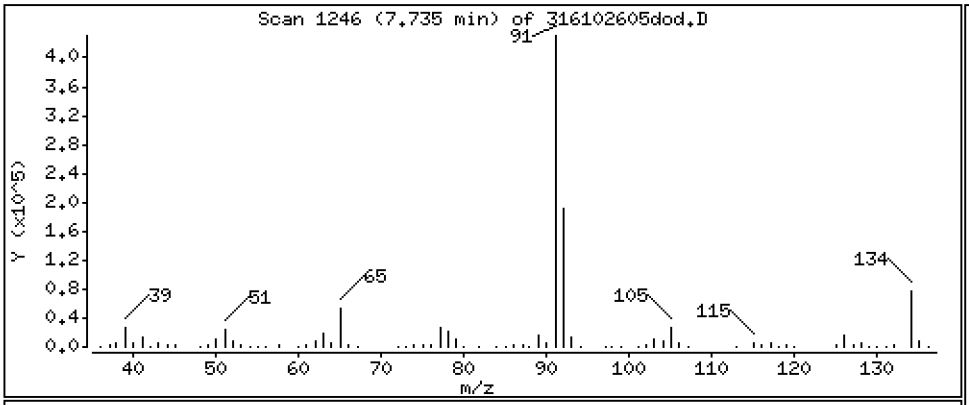
Client ID: LCS for HBN 174350 Instrument: ms03.i

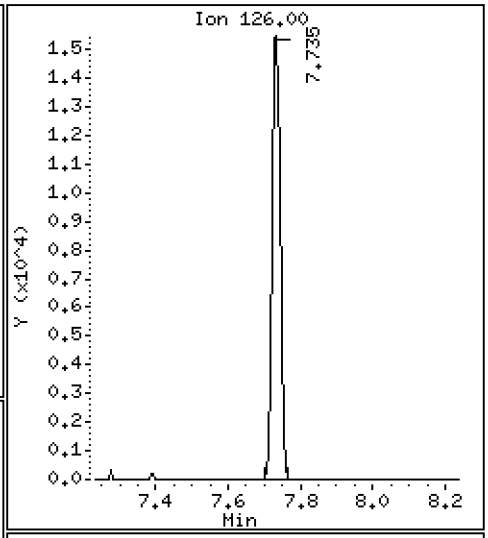
Sample Info: 2429648;;1;3;;LCS;1;

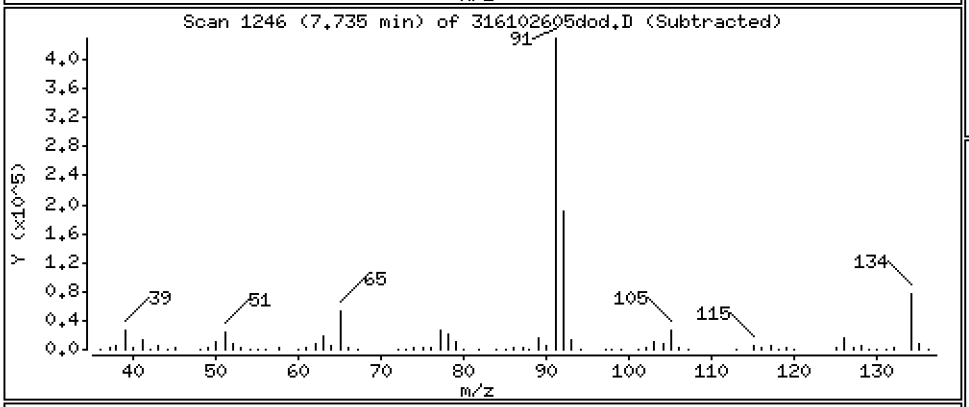
Purge Volume: 5.0 Operator: DD

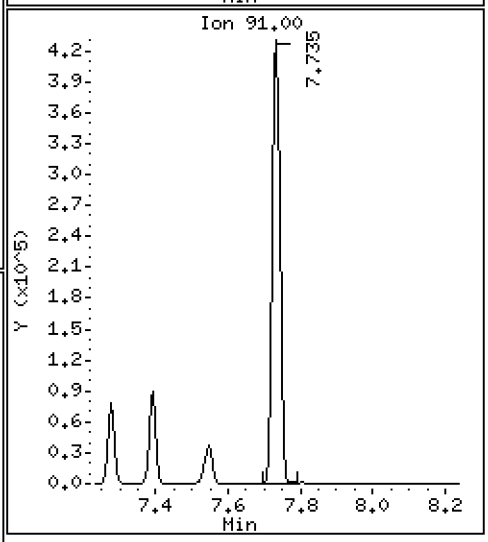
Column phase: DB-VRX Column diameter: 0.25

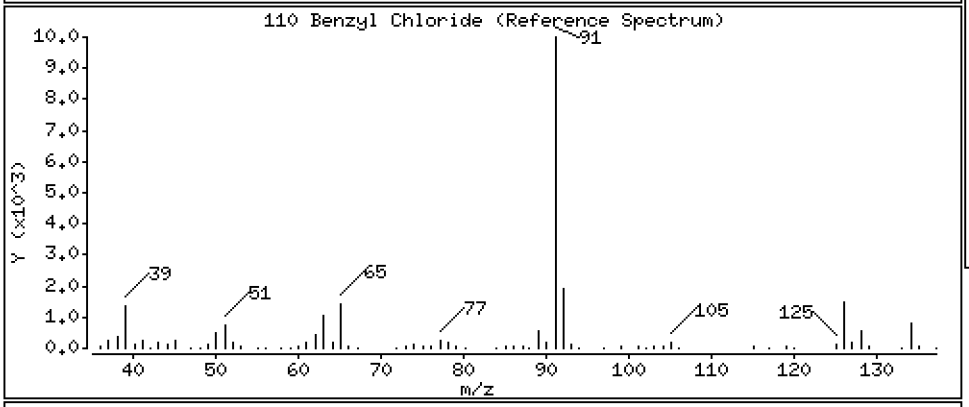
110 Benzyl Chloride Concentration: 15.6565 ug/L

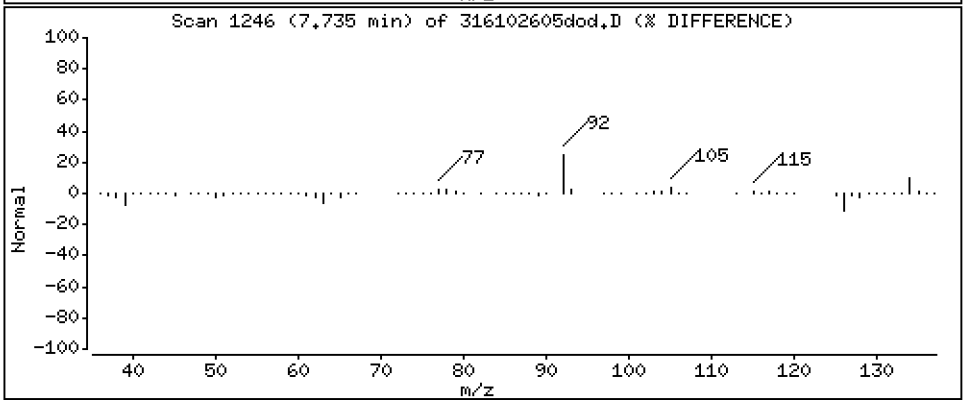












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 116

Date : 26-OCT-2016 10:55

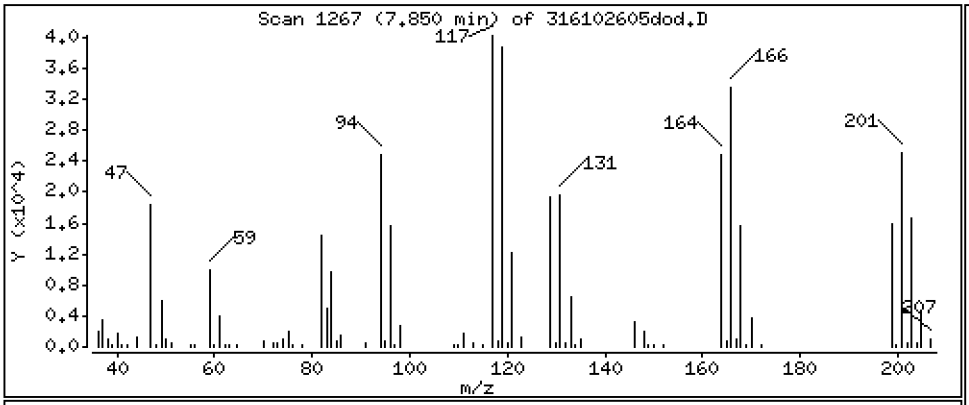
Client ID: LCS for HBN 174350 Instrument: ms03.i

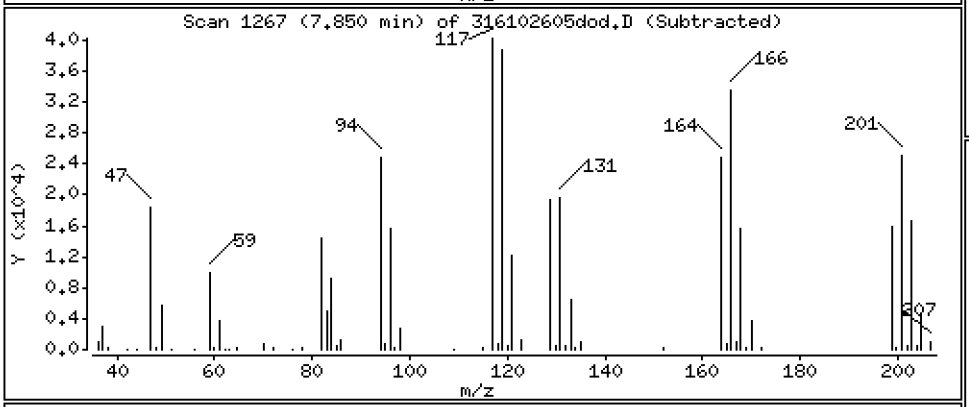
Sample Info: 2429648;;1;3;;LCS;1;

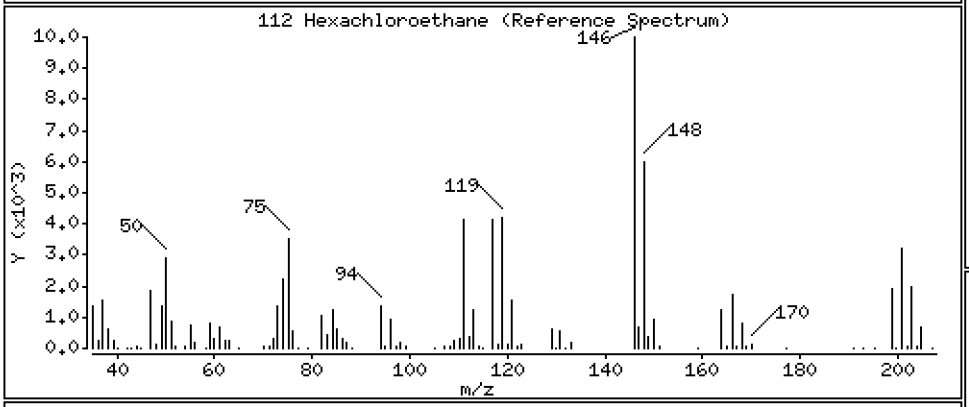
Purge Volume: 5.0 Operator: DD

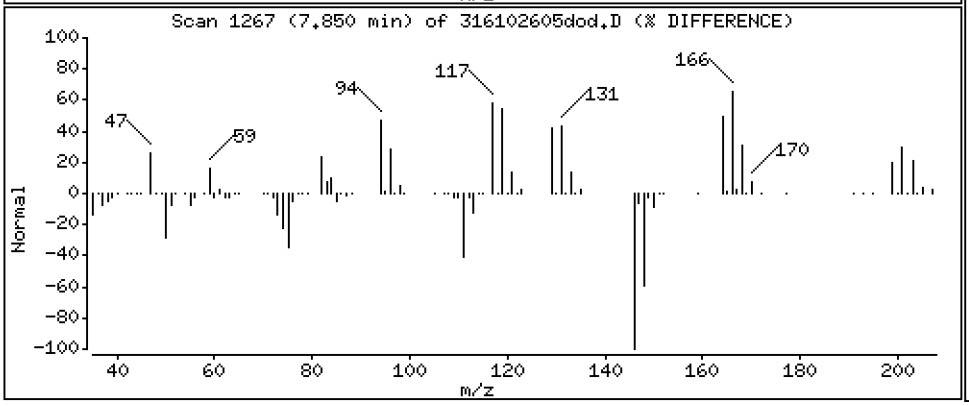
Column phase: DB-VRX Column diameter: 0.25

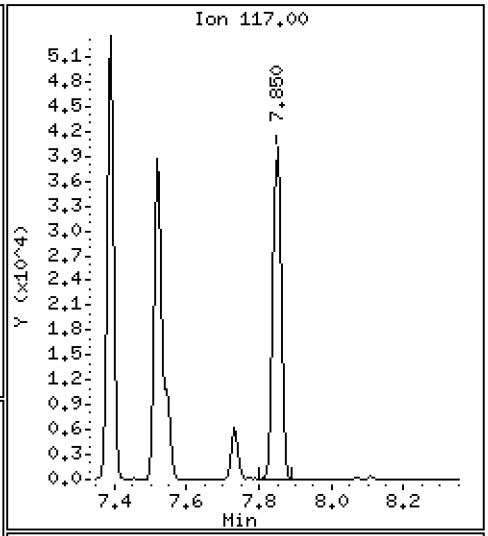
112 Hexachloroethane Concentration: 17.4721 ug/L

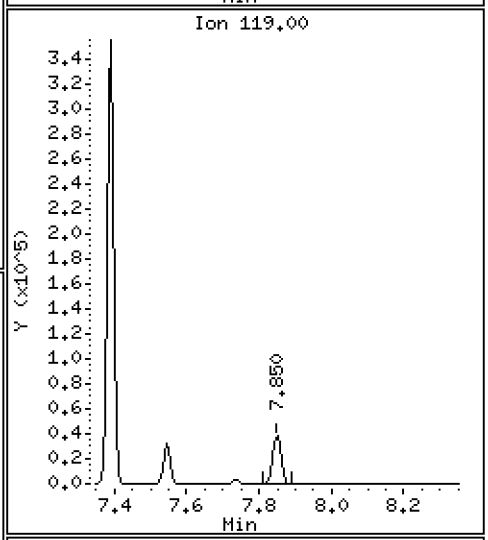


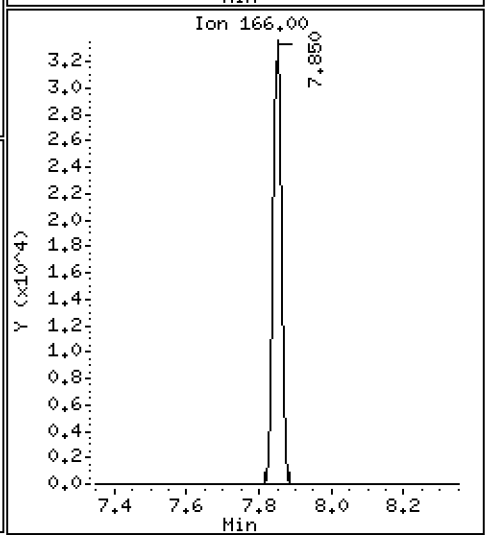












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 117

Date : 26-OCT-2016 10:55

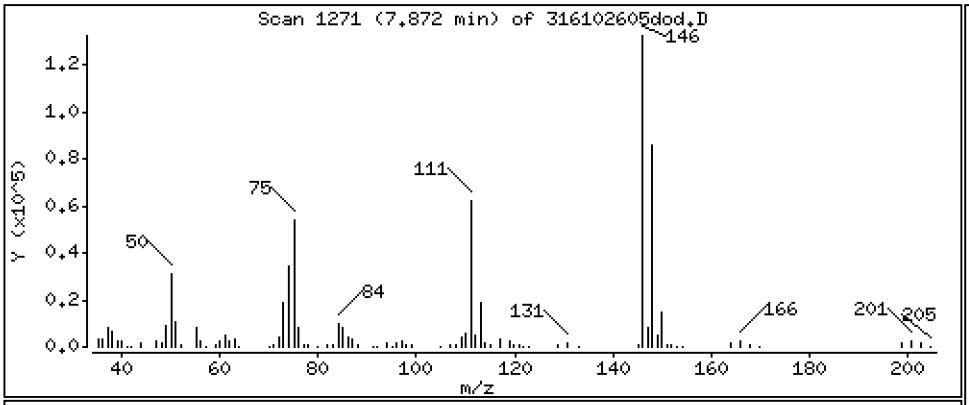
Client ID: LCS for HBN 174350 Instrument: ms03.i

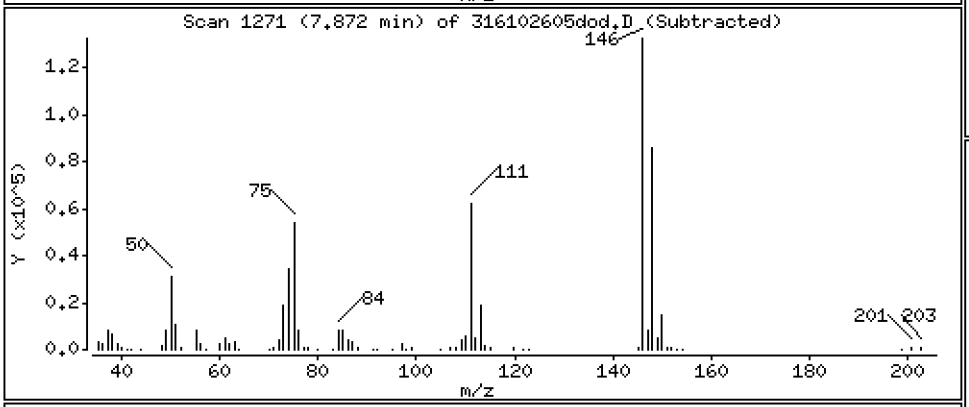
Sample Info: 2429648;;1;3;;LCS;1;

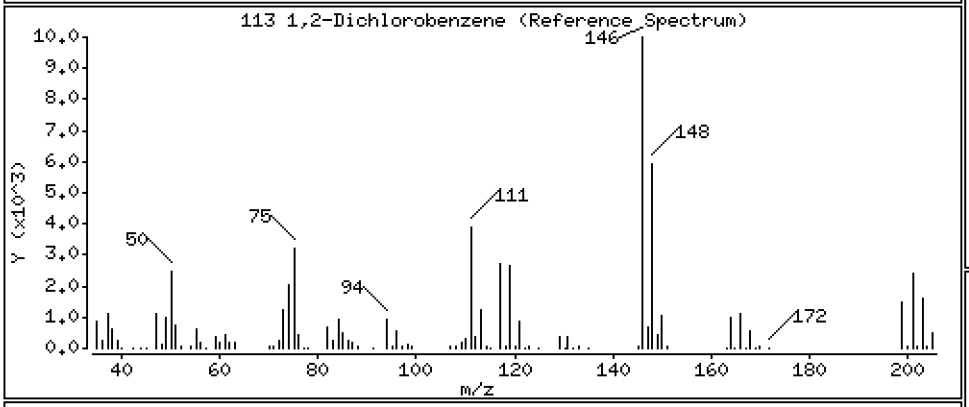
Purge Volume: 5.0 Operator: DD

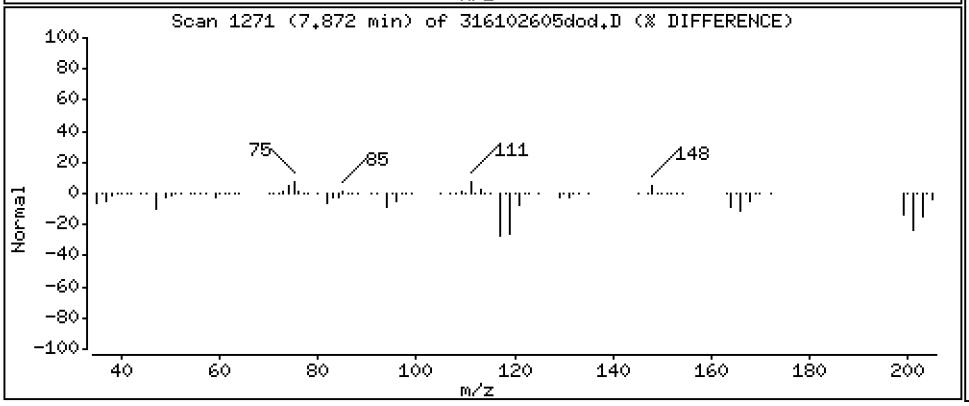
Column phase: DB-VRX Column diameter: 0.25

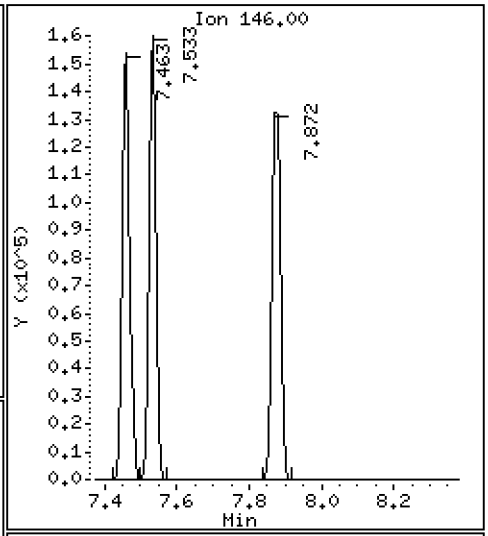
113 1,2-Dichlorobenzene Concentration: 20.4657 ug/L

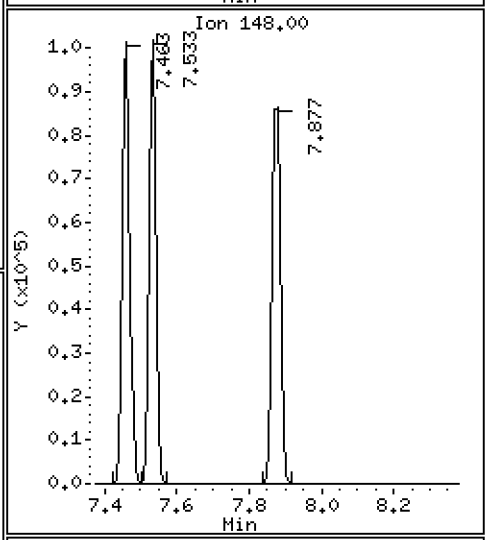


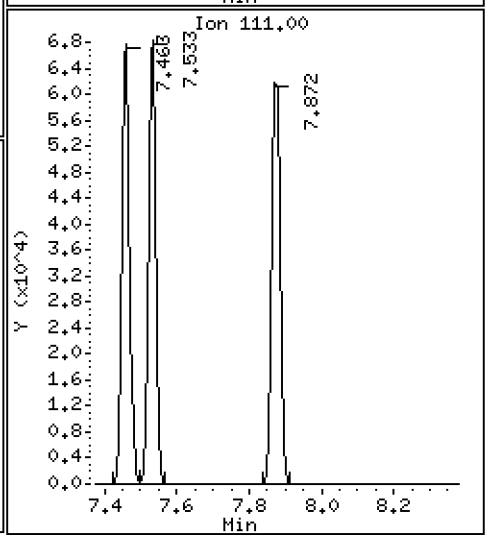












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 118

Date : 26-OCT-2016 10:55

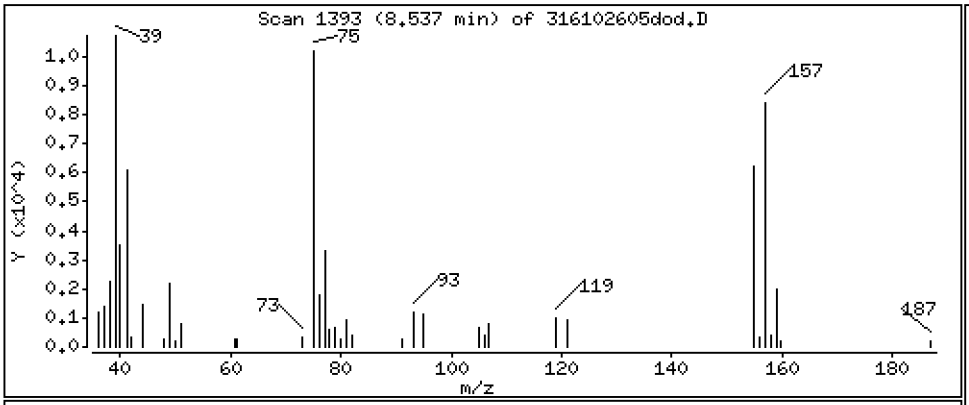
Client ID: LCS for HBN 174350 Instrument: ms03.i

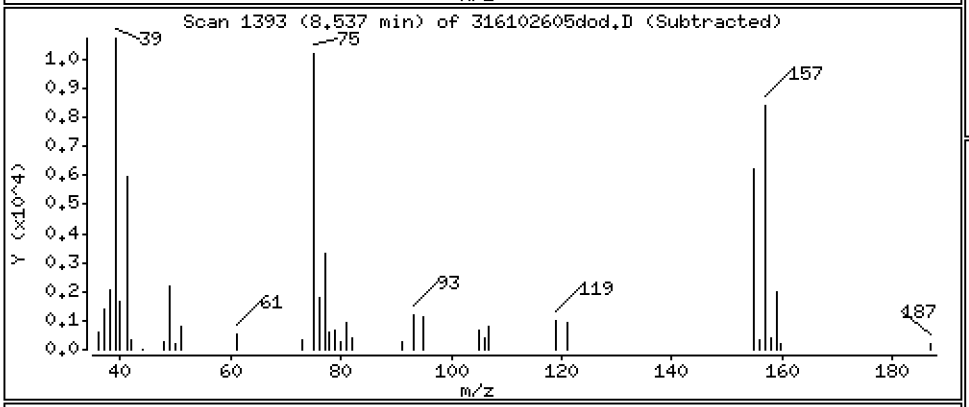
Sample Info: 2429648;;1;3;;LCS;1;

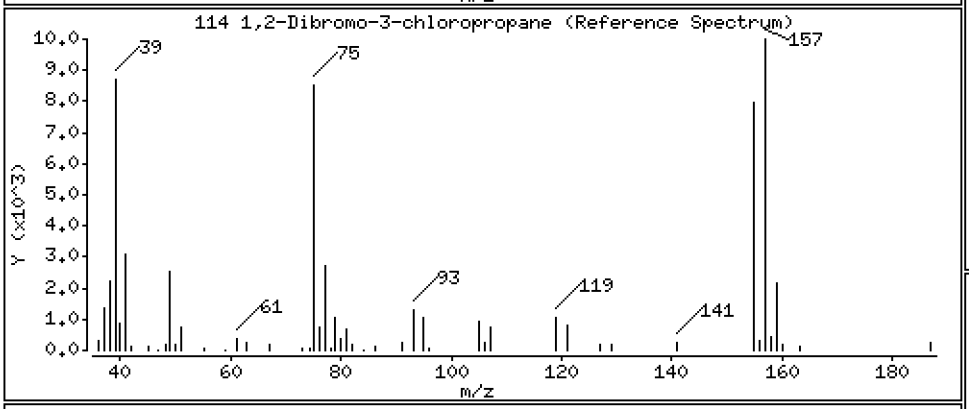
Purge Volume: 5.0 Operator: DD

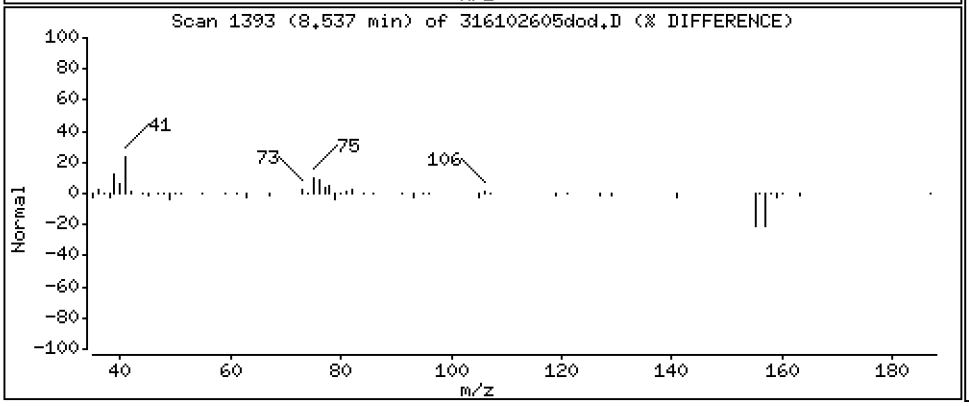
Column phase: DB-VRX Column diameter: 0.25

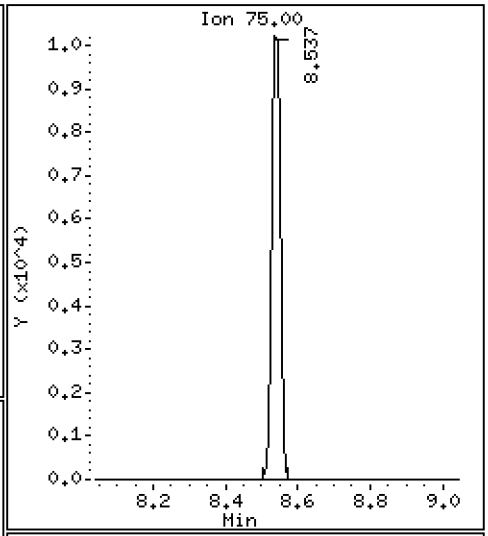
114 1,2-Dibromo-3-chloropropane Concentration: 19.4744 ug/L

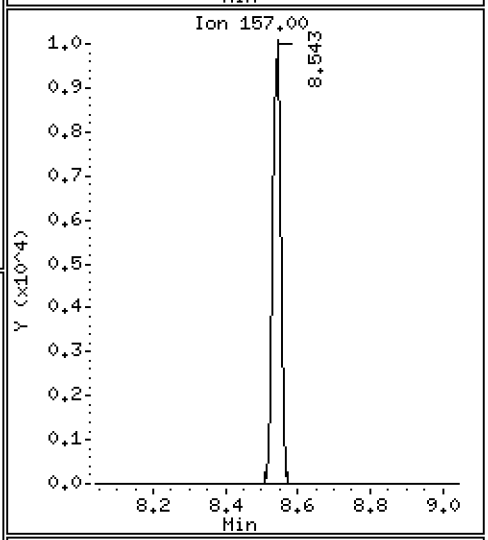


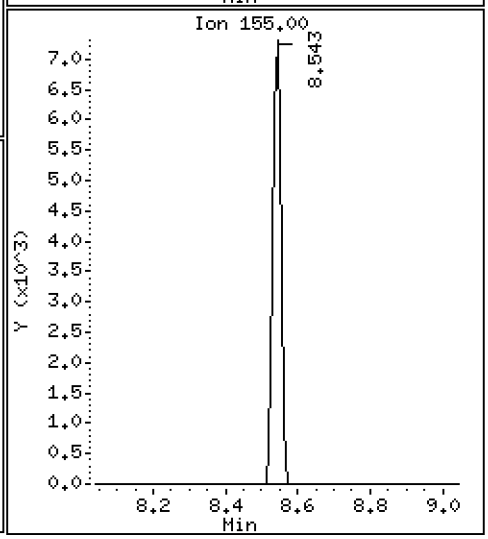












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 119

Date : 26-OCT-2016 10:55

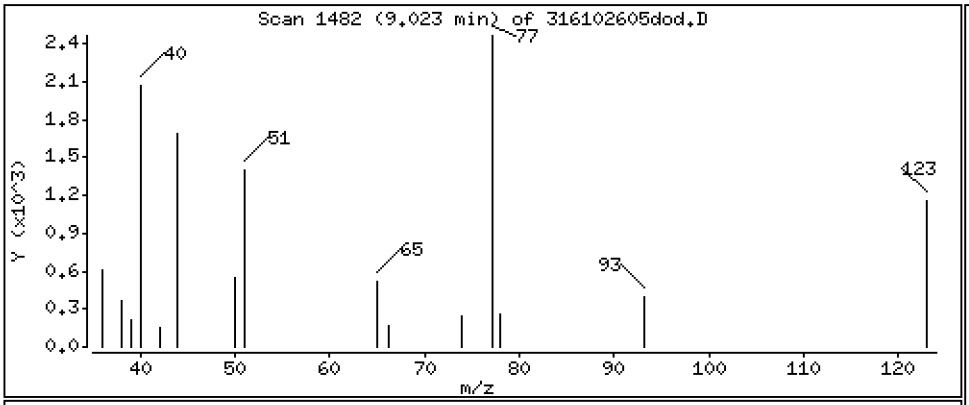
Client ID: LCS for HBN 174350 Instrument: ms03.i

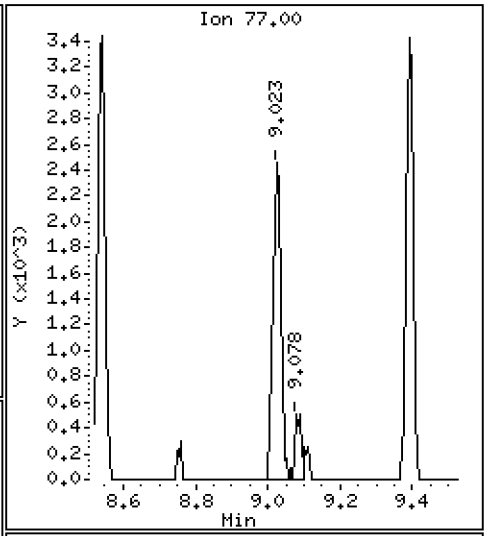
Sample Info: 2429648;;1;3;;LCS;1;

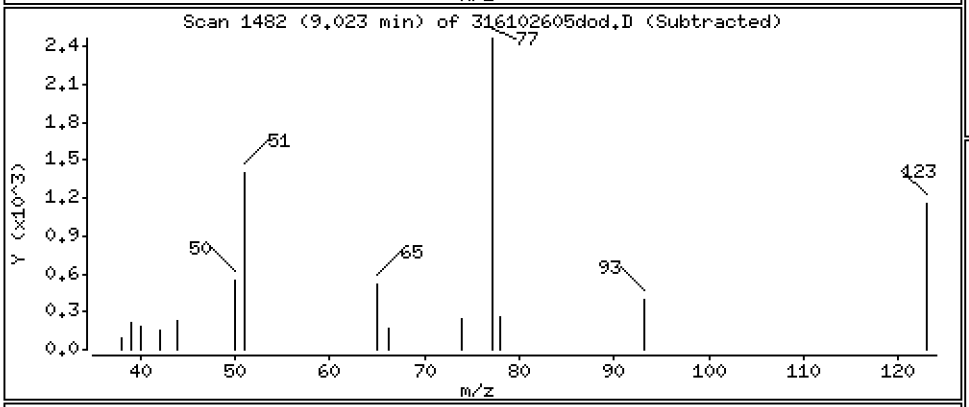
Purge Volume: 5.0 Operator: DD

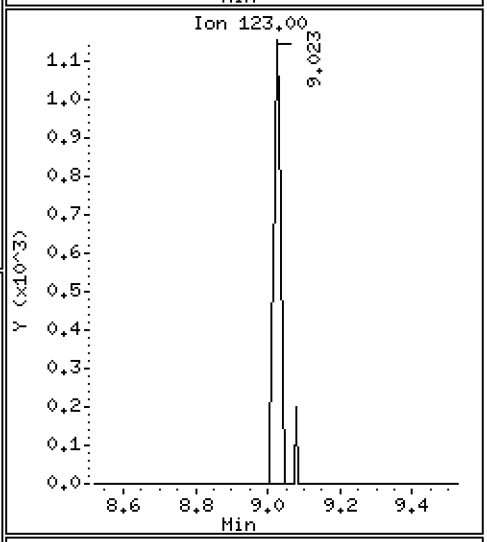
Column phase: DB-VRX Column diameter: 0.25

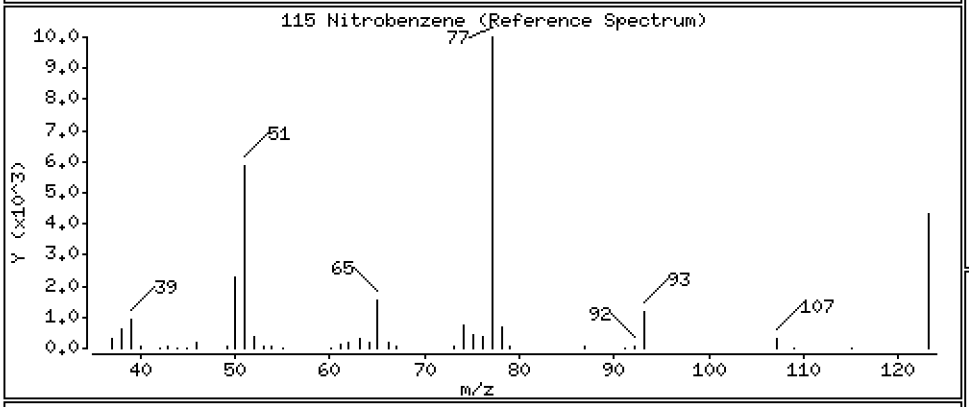
115 Nitrobenzene Concentration: 266.595 ug/L

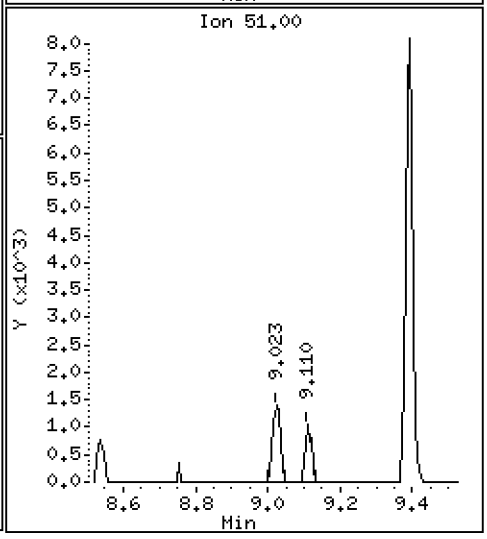


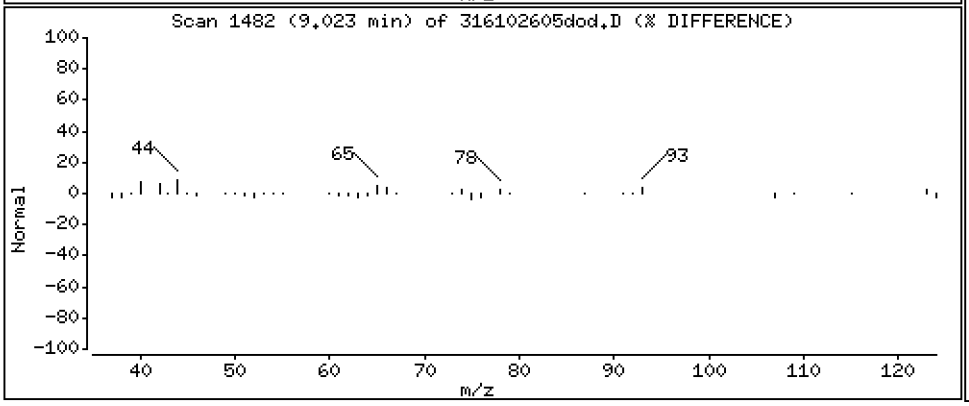












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 120

Date : 26-OCT-2016 10:55

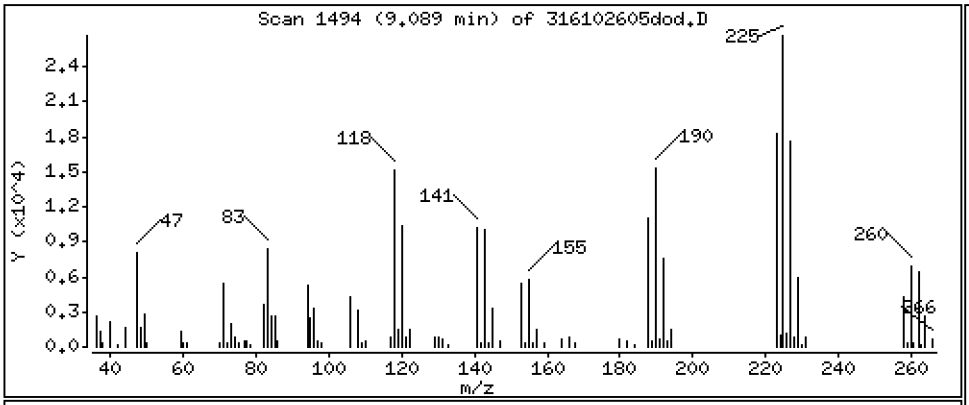
Client ID: LCS for HBN 174350 Instrument: ms03.i

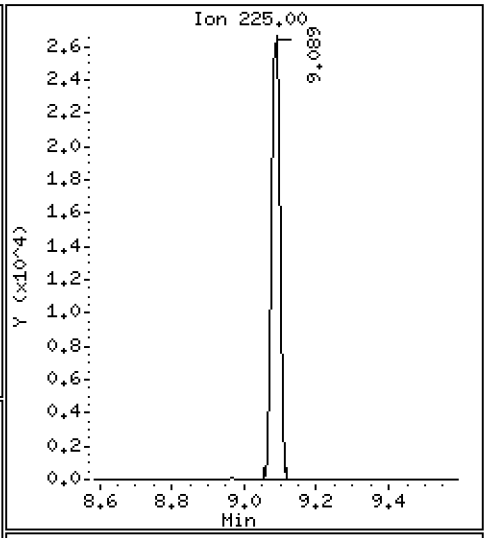
Sample Info: 2429648;;1;3;;LCS;1;

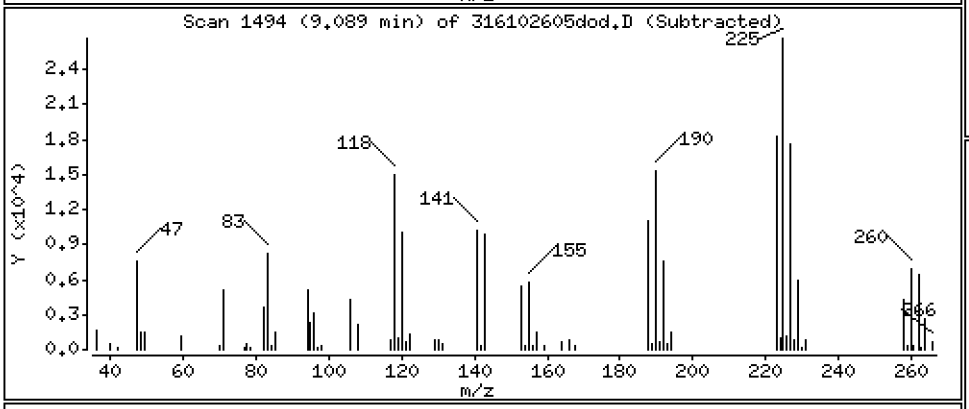
Purge Volume: 5.0 Operator: DD

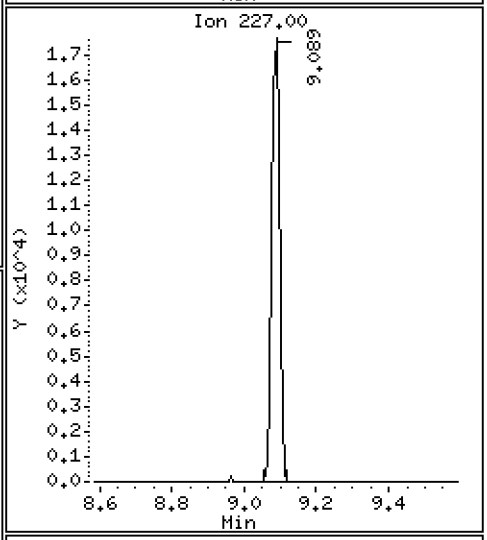
Column phase: DB-VRX Column diameter: 0.25

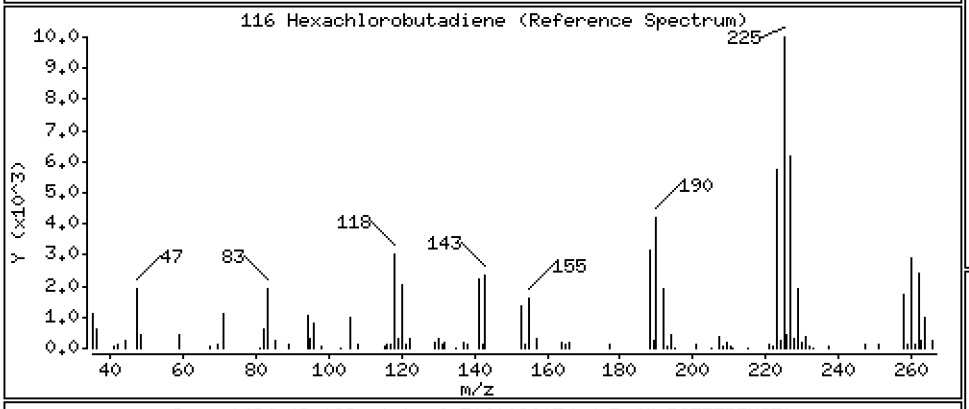
116 Hexachlorobutadiene Concentration: 20.9808 ug/L

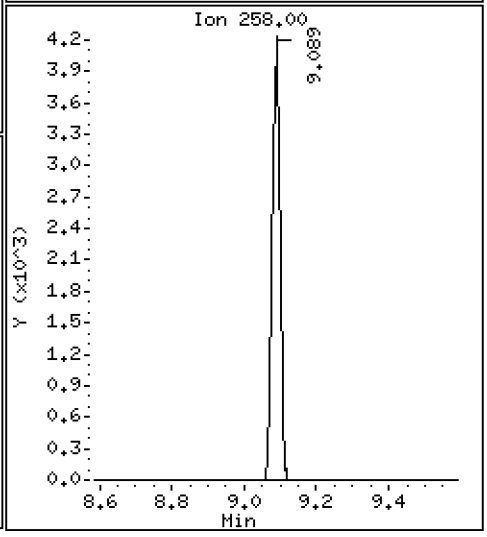


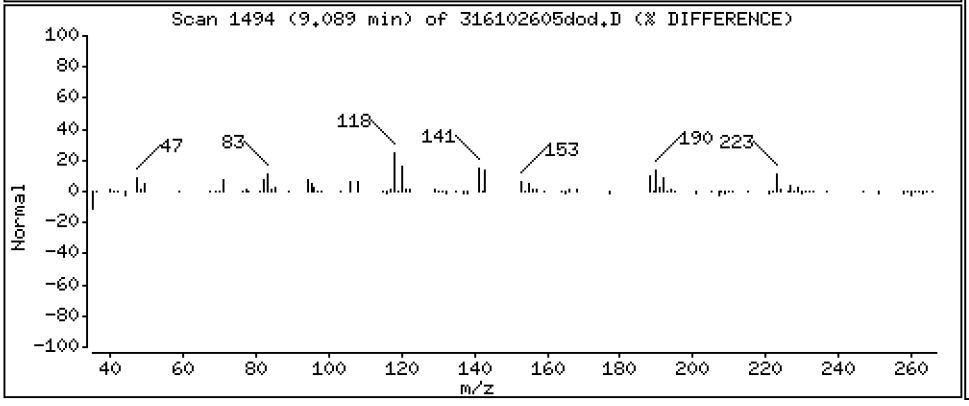












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 121

Date : 26-OCT-2016 10:55

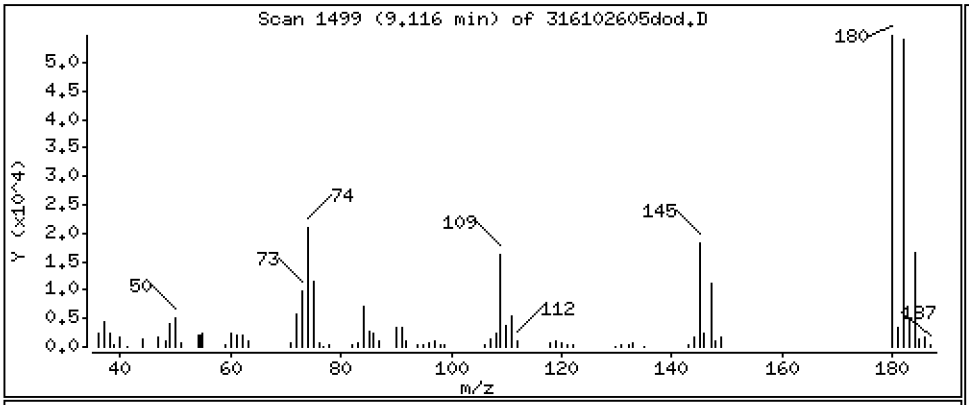
Client ID: LCS for HBN 174350 Instrument: ms03.i

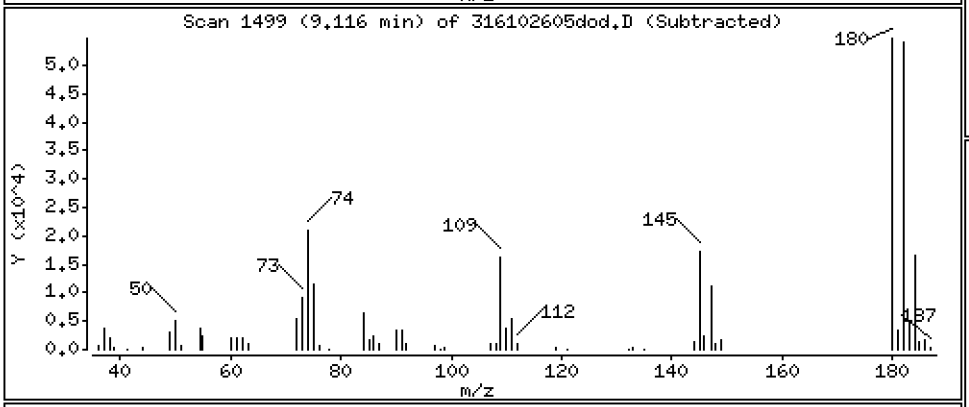
Sample Info: 2429648;;1;3;;LCS;1;

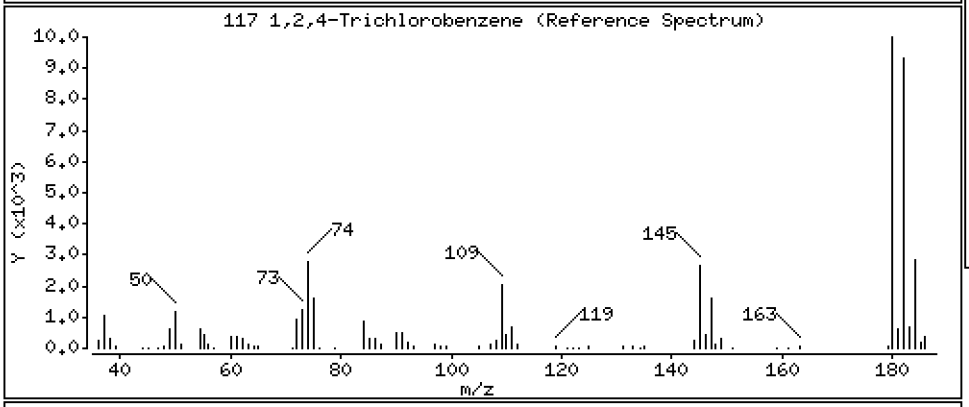
Purge Volume: 5.0 Operator: DD

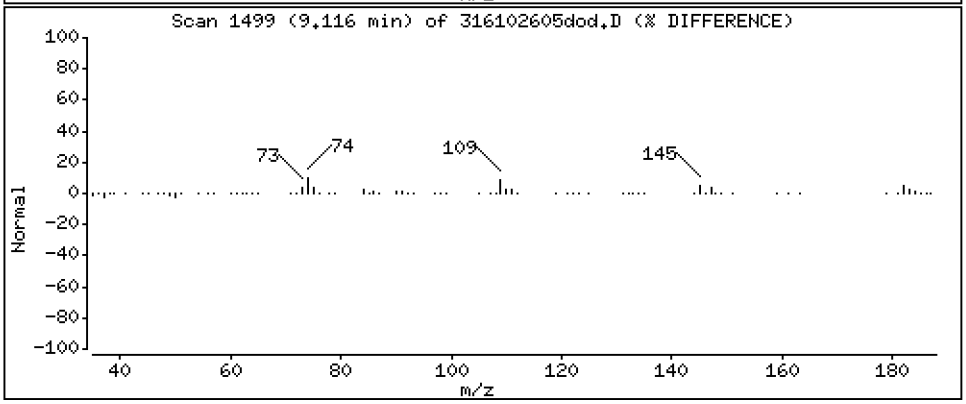
Column phase: DB-VRX Column diameter: 0.25

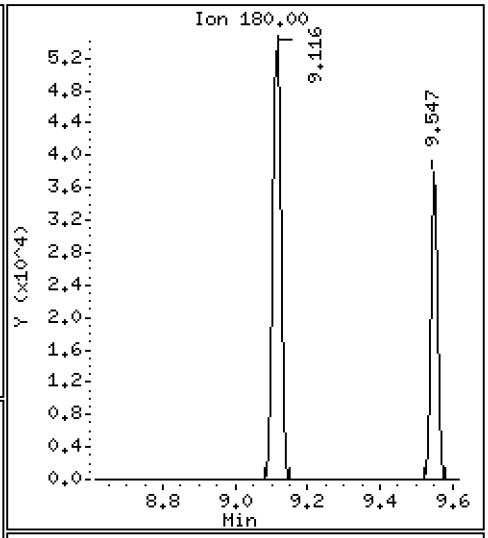
117 1,2,4-Trichlorobenzene Concentration: 18.7790 ug/L

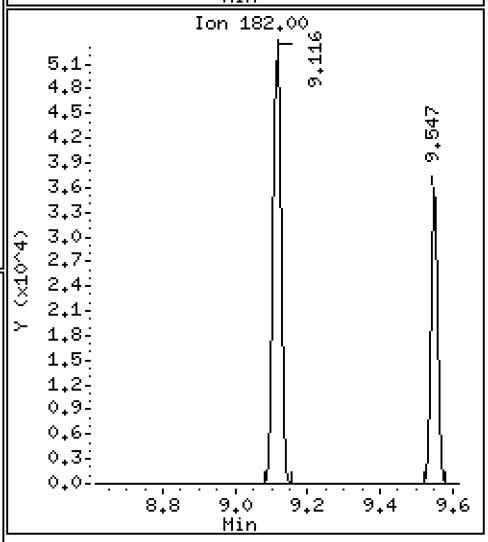












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 122

Date : 26-OCT-2016 10:55

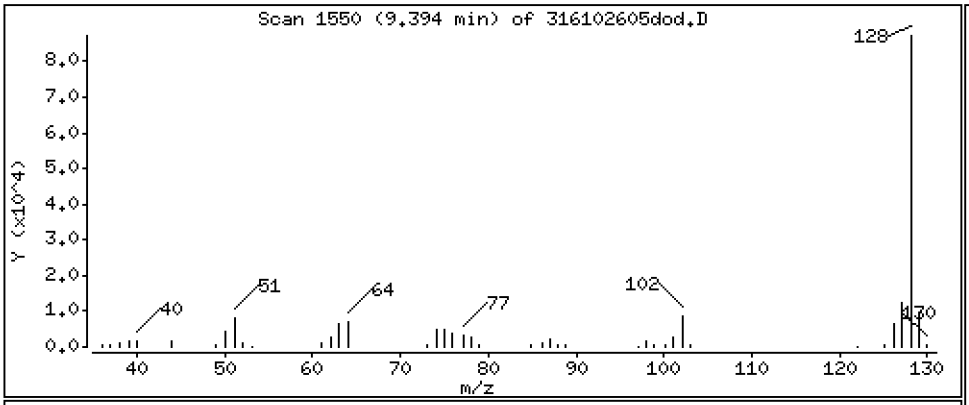
Client ID: LCS for HBN 174350 Instrument: ms03.i

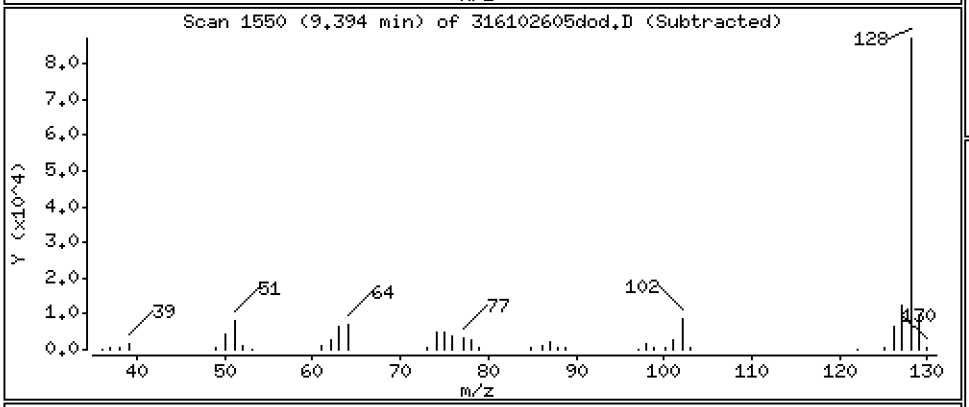
Sample Info: 2429648;;1;3;;LCS;1;

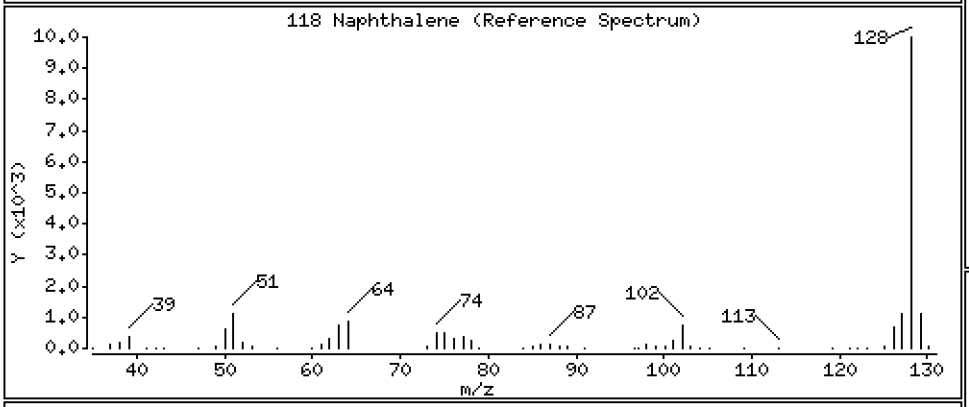
Purge Volume: 5.0 Operator: DD

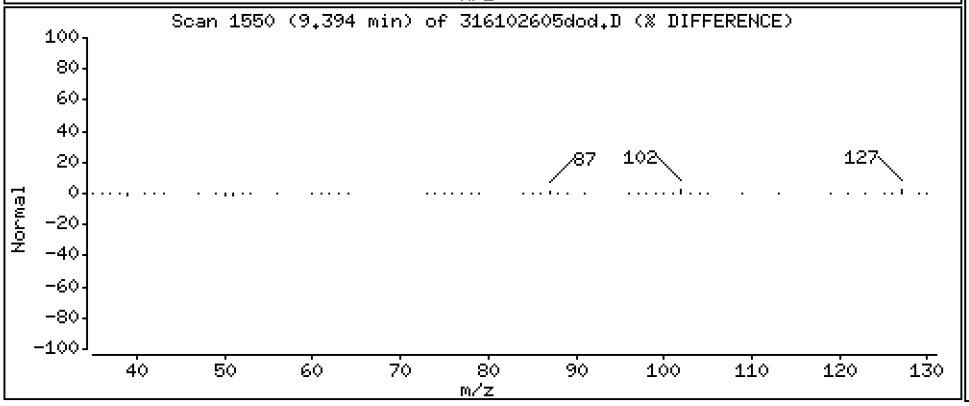
Column phase: DB-VRX Column diameter: 0.25

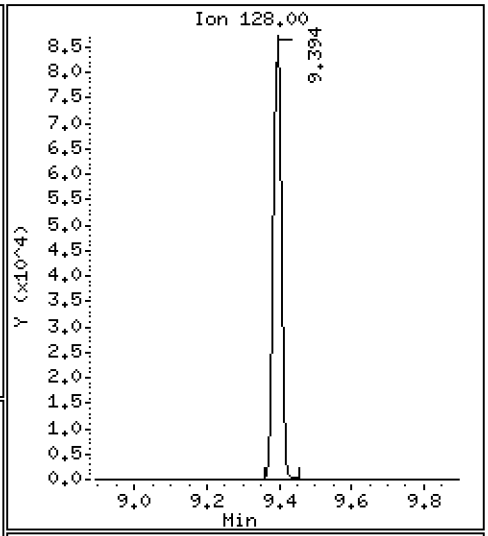
118 Naphthalene Concentration: 16.4586 ug/L

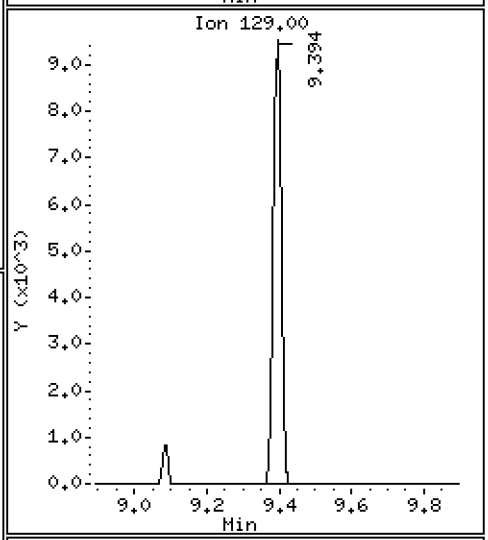


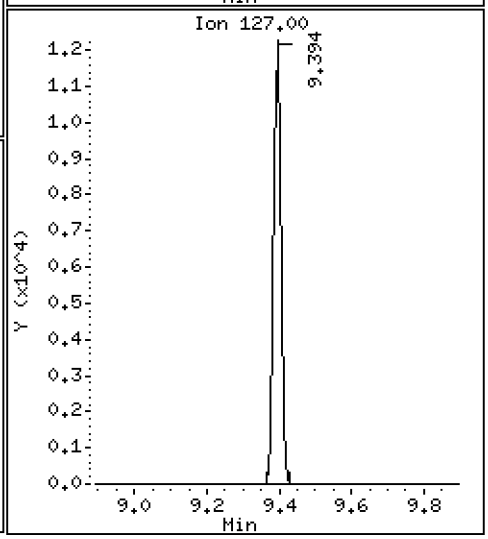












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 123

Date : 26-OCT-2016 10:55

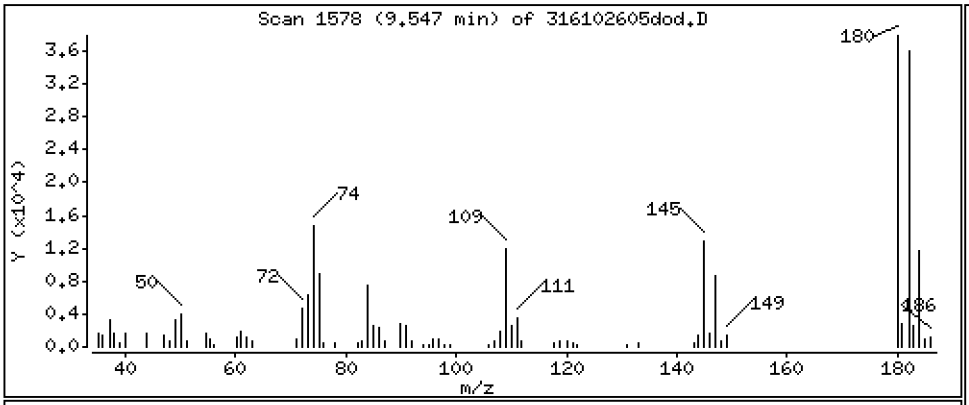
Client ID: LCS for HBN 174350 Instrument: ms03.i

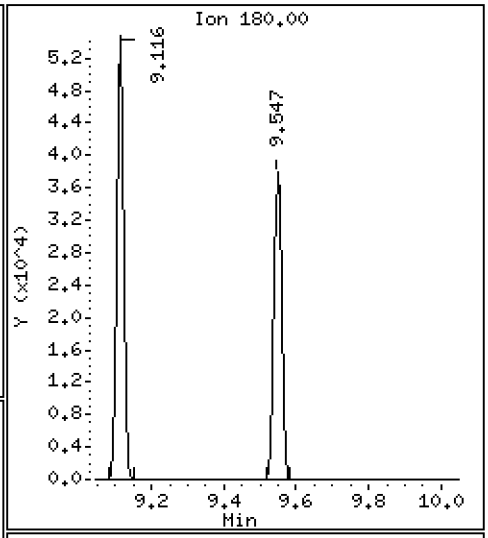
Sample Info: 2429648;;1;3;;LCS;1;

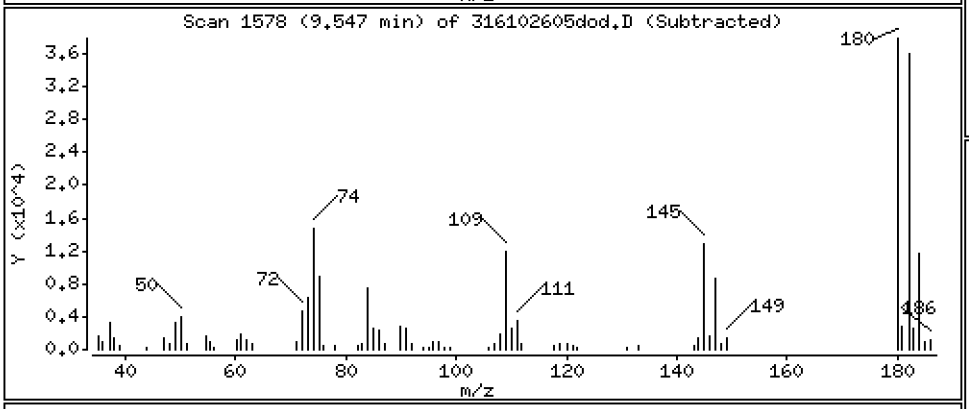
Purge Volume: 5.0 Operator: DD

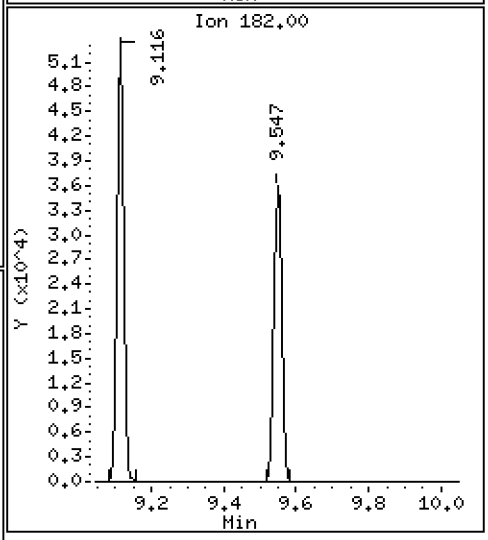
Column phase: DB-VRX Column diameter: 0.25

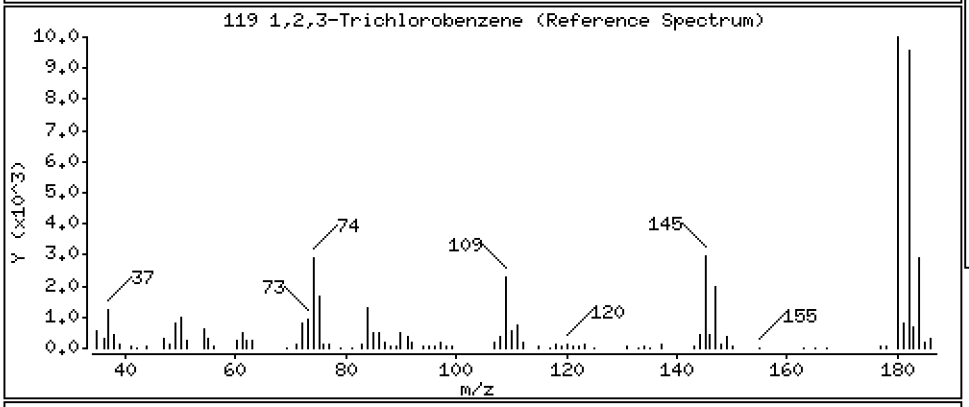
119 1,2,3-Trichlorobenzene Concentration: 19.1185 ug/L

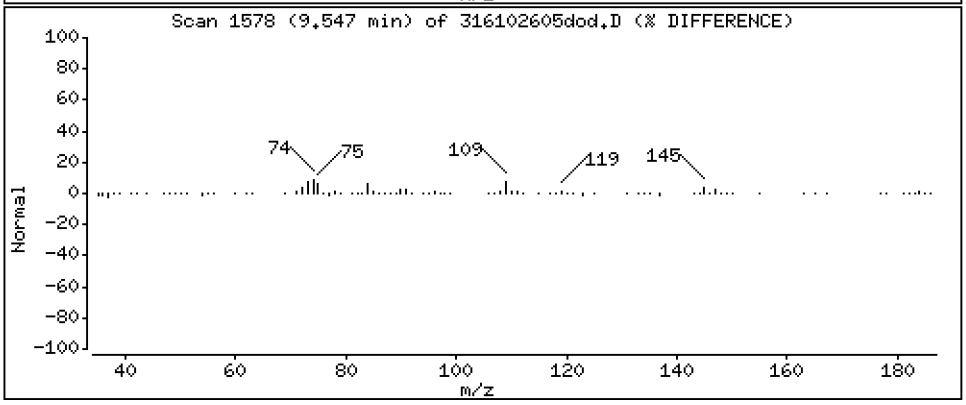












Data File: \\ALMDTWS014\TargetData\Chem2\ms03.i\03_2016\3161026.b\316102605dod.D Page 124

Date : 26-OCT-2016 10:55

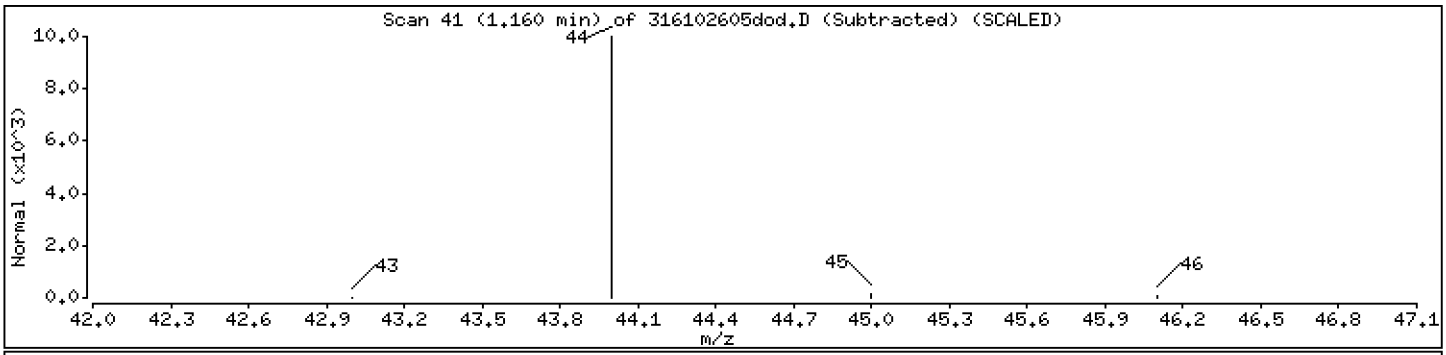
Client ID: LCS for HBN 174350 Instrument: ms03.i

Sample Info: 2429648;;1;3;;LCS;1;

Purge Volume: 5.0 Operator: DD

Column phase: DB-VRX Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0

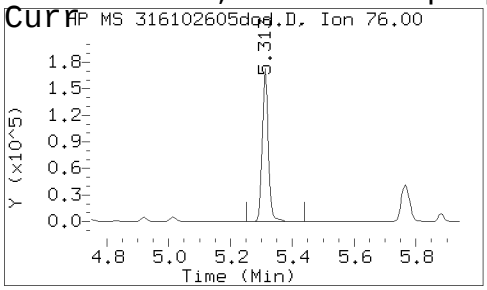


MANUAL INTEGRATION REPORT

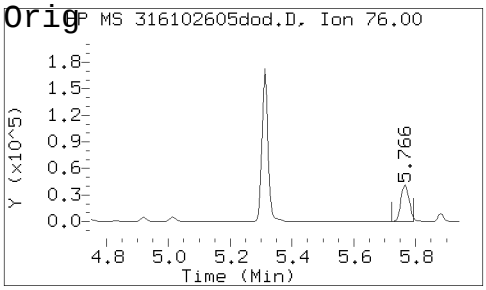
Report Date: 10/27/2016 13:43
Lab Sample ID: 2429648 Client ID: LCS for HBN 174350
DataFile:/Chem2/ms03.i/03_2016/3161026.b/316102605dod.D
RawFile:/Chem2/ms03.i/03_2016/3161026.b/RawData/316102605dod.D
Injection Date: 26-OCT-2016 10:55 Operator: DD

1,3-Dichloropropane

Curr



Orig



Curr. Area: 237059
Orig. Area: 77000

Curr. ON-COL: 18.8214
Orig. ON-COL: 6.11346

UNASSIGNED PEAK REPORT

Report Date: 10/27/2016 13:43
Lab Sample ID: 2429648 Client ID: LCS for HBN 174350
DataFile:/Chem2/ms03.i/03_2016/3161026.b/316102605dod.D
RawFile:/Chem2/ms03.i/03_2016/3161026.b/RawData/316102605dod.D
Injection Date: 26-OCT-2016 10:55 Operator: DD

Analytical Logbook

Data File: \\GC01\TargetDataChem2\ms03.m03_2016\3161024A.b

GCMS ANALYSIS - VOLATILE ORGANICS

DATE(S):	10/24/2016	Analyst:	CJG				
DATA FILE:	31024xx.d	BFB INJ :	10/24/16 22:18	INSTRUMENT: MS03	METHOD(S)	8260W	8260NJ D8260W 624
BATCH:	3161024A.b	12-HOUR ENDING:	10/25/16 10:18	ICAL DATE: 10/24/2016	LIMS BATCH:		41243

Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL-	Comment
0	50	1000	1	BFB	-	-	-	
1	51	WP	1	8260	-	-	-	
2	52	WP	1	8260	-	-	-	
3	53	VSTD0.5	1	8260	-	-	-	
4	54	1234	1	8260	-	-	-	
5	55	1235	1	8260	-	-	-	
6	56	1236	1	8260	-	-	-	
7	57	1237	1	8260	-	-	-	
8	58	1238	1	8260	-	-	-	
9	59	1239	1	8260	-	-	-	
10	60	WP	1	8260	-	-	-	
11	61	WP	1	8260	-	-	-	
12	62	WP	1	8260	-	-	-	
13	63	2428715	1	8260	-	-	-	
14	64	2428716	1	8260	-	-	-	
15	65	WP	1	8260	-	-	-	
16	66	2181898026-A	1	D8260W V	<2	N	N	ICOC
17	67	2181898027-A	1	D8260W V	<2	N	N	ICOC
18	68	2181898028-A	1	D8260W V	<2	N	N	ICOC DL10
19	69	2181898029-A	1	D8260W V	<2	N	N	ICOC
20	70	2181898030-A	1	D8260W V	<2	N	N	ICOC
21	71	2181898031-A	1	D8260W V	<2	N	N	ICOC
22	72	2181898032-A	1	D8260W V	<2	N	N	ICOC
23	73	2181898034-A	1	D8260W V	<2	N	N	ICOC
24	74	2181898035-A	1	D8260W V	<2	N	N	ICOC
25	75	2181898036-A	1	D8260W V	<2	N	N	ICOC
26	76	2181898037-A	1	D8260W V	<2	N	N	ICOC
27	77	2181898039-A	1	D8260W V	<2	N	N	ICOC CLIENT MS/D
28	78	2428741	1	D8260W V	<2	N	N	ICOC "B"
29	79	2428742	1	D8260W V	<2	N	N	ICOC "C"
30	80	1801	1	D8260W V	-	-	-	
31	81							
32	82							
33	83							

Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL-	Comment
34	84							
35	85							
36	86							
37	87							
38	88							
39	89							
40	90							
41	91							
42	92							
43	93							
44	94							
45	95							
46	96							
47	97							
48	98							
49	99							
50	100							
51	101							
52	102							
51	103							
20	20							
21	21							
22	22							
23	23							
24	24							
25	25							
26	26							
27	27							
28	28							
29	29							
30	30							
31	31							
32	32							
33	33							

IS:	VOA13-35-28	Vnew:	VOA13-033-12
SS:	VOA13-11-18	Vgas:	VOA13-036-16
BFB:	VOA13-36-07	Qvoa:	VOA13-034-01
		Qgas:	VOA13-036-13

ABBREVIATIONS

CO:	Suspect Carryover	SS:	Surrogate Failure
LS:	Library Search	IS:	ISTD Failure
RR:	Rerun same dilution	DNR:	Do not Report
DFx:	Rerun @ less diln x	NU:	Not Used
DLx:	Rerun @ diln x	AF:	Antifoam was used

10ul :	HS801
25ul :	HS770
100ul :	HS797
1 mL :	HS778
5 mL :	HS779
10 mL :	HS780

	8260	624
Prev		Prev
Current		Current
Total		Total
Needs QC?		Needs QC?
Page 1638 of 1639 Total		Pages

GCMS ANALYSIS - VOLATILE ORGANICS

DATE(S):	10/26/2016	Analyst:	DD				
DATA FILE:	31026xx.d	BFB INJ :	10/26/16 8:34	INSTRUMENT: MS03	METHOD(S)	8260W	8260NJ	D8260W 624
BATCH:	3161026.b	12-HOUR ENDING:	10/26/16 20:34	ICAL DATE: 10/24/2016	LIMS BATCH:	41271		41264

Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL-	Comment
0	00	1000	1	BFB	-	-	-	
1	01	1800	1	8260	-	-	-	
2	02	WP	1	8260	-	-	-	
3	03	WP	1	8260	-	-	-	
4	04	2429647	1	8260	-	-	-	2429826 -A
5	05	2429648	1	8260	-	-	-	2429827 -A
6	06	WP	1	8260	-	-	-	
7	07	2184319004-B	1	D8260W V	<2	N	N	dod LS 1139/NoHits
8	08	2183051007-B	1	D8260W V	<2	N	N	dod LS 1201/NO HITS
9	09	2184164004-A	1	D8260W V	<2	N	N	dod
10	10	2183283005-A	1	F19Q	<2	N	N	
11	11	2183283006-A	1	F19Q	<2	N	N	
12	12	2427576	20	DTCLP	-	-	-	dod
13	13	2184162002-D	1	D8260W V	<2	N	N	dod (CORR) 1351/NoHits
14	14	2184319001-B	1	D8260W V	<2	N	N	dod LS 1413/NoHIts
15	15	2184319002-B	1	D8260W V	<2	N	N	dod LS 1434/NoHIts
16	16	2184319003-B	1	D8260W V	<2	N	N	dod LS 1456/NoHIts
17	17	2183051003-B	1	D8260W V	<2	N	N	dod LS 1518/NO HITS
18	18	2183051004-B	1	D8260W V	<2	N	N	dod LS 1540/HITS
19	19	2183051005-B	1	D8260W V	<2	N	N	dod LS 1602/NO HITS
20	20	2183051006-B	1	D8260W V	<2	N	N	dod LS 1625/NO HITS
21	21	2184164001-A	1	D8260W V	<2	N	N	dod
22	22	2184164002-A	1	D8260W V	<2	N	N	dod
23	23	2184164003-A	1	D8260W V	<2	N	N	dod
24	24	2184162001-D	20	D8260W V	<2	N	N	dod (DL)
25	25	2183283002-H	1	F19Q	<2	N	N	
26	26	2183283003-I	1	F19Q	<2	N	N	MSD
27	27	2429881	1	8260	<2	N	N	
27	28	2429881	1	8260	<2	N	N	
28	29	1801	1	8260	-	-	-	
29	30							
30	31							
31	32							
32	33							

Pos #	Run #	ALS Sample ID (w/ Container ID)	Dilution	Test	pH	HDSP / Wt.	CL-	Comment
34	84							
35	85							
36	86							
37	87							
38	88							
39	89							
40	90							
41	91							
42	92							
43	93							
44	94							
45	95							
46	96							
47	97							
48	98							
49	99							
50	100							
51	101							
52	102							
51	103							
20	20							
21	21							
22	22							
23	23							
24	24							
25	25							
26	26							
27	27							
28	28							
29	29							
30	30							
31	31							
32	32							
33	33							

IS: VOA13-35-28
SS: VOA13-11-18
BFB: VOA13-36-07
Vnew: VOA13-033-12
Vgas: VOA13-036-18
Qvoa: VOA13-037-01
Qgas: VOA13-036-13

ABBREVIATIONS

CO:	Suspect Carryover	SS:	Surrogate Failure
LS:	Library Search	IS:	ISTD Failure
RR:	Rerun same dilution	DNR:	Do not Report
DFx:	Rerun @ less diln x	NU:	Not Used
DLx:	Rerun @ diln x	AF:	Antifoam was used

10ul : HS801
25ul : HS770
100ul : HS797
1 mL : HS778
5 mL : HS779
10 mL : HS780

	8260	624
Prev		Prev
Current		Current
Total		Total
Needs QC?		Needs QC?
Page 1639 of 1639 Total		Pages

APPENDIX E

NJDEP CORRESPONDENCE

State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Case Management
401 East State Street
P.O. Box 420/Mail Code 401-05F
Trenton, NJ 08625-0028
Phone #: 609-633-1455
Fax #: 609-633-1439

BOB MARTIN
Commissioner

April 28, 2017

William Colvin
BRAC Environmental Coordinator
OACSIM – U.S. Army Fort Monmouth
PO Box 148
Oceanport, NJ 07757

Approval

Re: **Remedial Action Type:** *Unrestricted Use*
Scope of Remediation: *Areas of Concern: Ground Water at FTMM-64*
Monmouth County
SRP PI# G000000032
RPC000001

Dear Mr. Colvin,

The New Jersey Department of Environmental Protection (Department) has completed review of the referenced submittal, received March 4, 2017 prepared by the Department of the Army Office of Assistant Chief of Staff for Installation Management to request determination of no further action for ground water at FTMM-64, also known as Building 812. It is agreed no additional action regarding ground water is necessary at FTMM-64.

Please contact Linda Range at (609) 984-6606 if you have any questions.

Sincerely,

Gwen B. Zervas, P.E.
Section Chief

C: James Moore, USACE
Rich Harrison, FMERA
Joe Fallon, FMERA
Joe Pearson, Calibre

New Jersey is an Equal Opportunity Employer • Printed on Recycled Paper and Recyclable

State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Case Management
401 East State Street
P.O. Box 420/Mail Code 401-05F
Trenton, NJ 08625-0028
Phone #: 609-633-1455
Fax #: 609-633-1439

BOB MARTIN
Commissioner

November 14, 2016

William R. Colvin
BRAC Environmental Coordinator
OACSIM – U.S. Army Fort Monmouth
PO Box 148
Oceanport, NJ 07757

Re: *Annual (Fourth Quarter) 2015 Groundwater Sampling Report* dated *September 2016*
Fort Monmouth
Oceanport, Monmouth County
PI G000000032

Dear Mr. Colvin:

The New Jersey Department of Environmental Protection (NJDEP) has completed review of the referenced report, received September 29, 2016, prepared by Parsons to support the Remedial Investigation (RI), Feasibility Study (FS), and Decision Documents project at Fort Monmouth. An annual ground water sampling event was conducted at twelve (12) FTMM sites between September 30, 2015 and December 15, 2015. Sampling methodologies used included low-flow purging and sampling (LFPS) and passive diffusion bag samplers (PDBS). Comments on each FTMM site are as follows:

FTMM-02 Landfill

Historic sampling results at FTMM-02 have exhibited exceedances of the Ground Water Quality Standard (GWQS) for VOCs. Results from the 2015 annual sampling event exceeded the GWQS for MTBE and TBA in M2MW22. The report recommends biennial sampling of M2MW03, M2MW10 and M2MW22 as part of the biennial sampling requirements for the existing CEA for this site. The exiting CEA will also be revised to include TBA and MTBE. The recommendation is acceptable. At any point where a decision is made to terminate ground water sampling at this parcel, confirmatory sampling using low-flow methodology is required.

FTMM-05 Landfill

Historic sampling results at FTMM-05 have exhibited exceedances of the GWQS for PCE, TCE and vinyl chloride. Results from the 2015 annual sampling event exceeded GWQS for PCE in wells M5MW11, M5MW16, M5MW20 and M5MW23. The report recommends the

establishment of a CEA, with biennial ground water sampling of wells M5MW11, M5MW16, M5MW20 and M5MW23 for VOCs as the "preferred remedy". Although an essential component of certain ground water remedies, a CEA is an institutional control rather than a remedy. A remedial action proposal, e.g. Monitored Natural Attenuation (MNA), in accordance with the applicable requirements of N.J.A.C. 7:26E-5.1, must be submitted to address the ground water contaminants. At such time as the formal proposal for a CEA is to be submitted, the proposal must be accompanied by a CEA/WRA Fact Sheet Form; the form and form instructions may be obtained from the Site Remediation website at www.nj.gov/dep/srp/srra/forms/. Submittal of a draft CEA/WRA Fact Sheet Form is recommended to allow for DEP confirmation of the CEA components and boundaries.

FTMM-08 Landfill

Historic sampling results at FTMM-08 exhibited exceedances of the GWQS for pesticides, benzene, PCE and lead. Results from the 2015 annual sampling event exceeded the GWQS for PCE, lead and pesticides. The 2016 RIR for FTMM-08, however, indicated manganese is also a contaminant of concern which requires monitoring. The submittal recommends the establishment of a CEA, with biennial ground water sampling for the contaminants of concern from selected wells. As above, although an essential component of certain ground water remedies, a CEA is an institutional control rather than a remedy. A remedial action proposal, e.g. Monitored Natural Attenuation (MNA), in accordance with the applicable requirements of N.J.A.C. 7:26E-5.1, must be submitted to address the ground water contaminants. At such time as the formal proposal for a CEA is to be submitted, the proposal must be accompanied by a CEA/WRA Fact Sheet Form; the form and form instructions may be obtained from the Site Remediation website at www.nj.gov/dep/srp/srra/forms/. Submittal of a draft CEA/WRA Fact Sheet Form is recommended to allow for DEP confirmation of the CEA components and boundaries.

FTMM-18 Landfill

Historic sampling results at FTMM-18 exhibited exceedances of the GWQS for benzene and 1,2-DCA. Results from the annual 2015 sampling event exceed the GWQS for benzene in well 296MW06. In the October 2015 RIR for FTMM-18, it was indicated that manganese is also a contaminant of concern, which requires monitoring. The report recommends the establishment of a CEA as the preferred remedy, with biennial ground water sampling for the contaminants of concern from selected wells. As above, although an essential component of certain ground water remedies, a CEA is an institutional control rather than a remedy. A remedial action proposal, e.g. Monitored Natural Attenuation (MNA), in accordance with the applicable requirements of N.J.A.C. 7:26E-5.1 and guidance documents, must be submitted to address the ground water contaminants. At such time as the formal proposal for a CEA is to be submitted, the proposal must be accompanied by a CEA/WRA Fact Sheet Form; the form and form instructions may be obtained from the Site Remediation website at www.nj.gov/dep/srp/srra/forms/. Submittal of a draft CEA/WRA Fact Sheet Form is recommended to allow for DEP confirmation of the CEA components and boundaries.

FTMM-22 - Former Wastewater Treatment Lime Pit

Historic sampling results at FTMM-22 exhibited exceedances of the GWQS for TCE and vinyl chloride. Results from the annual 2015 sampling event also exceeded the GWQS for TCE and vinyl chloride. Long-term ground water monitoring has been suspended while the remedial investigation/feasibility study (RI/FS) is being conducted. Upon completion of the RI/FS, a revised monitoring program will be proposed. The recommendation is acceptable.

FTMM-53 - Former Gas Station at Building 699

Historic sampling results at FTMM-53 exhibited exceedances of the GWQS for benzene, PCE, TCE, TBA, VOC TICs and lead. Results from the 2015 annual sampling event exceeded the GWQS for benzene, PCE, 1,2,4-trimethylbenzene, and VOC TICs. Long-term ground water monitoring has been suspended while the RI/FS is being conducted. Upon completion of the RI/FS, a revised monitoring program will be proposed. The recommendation is acceptable.

FTMM-56 – Building 80 Petroleum Release

Historic sampling results at FTMM-56 exhibited exceedances of the GWQS for pesticides and metals. Recently, one additional round of sampling from two wells was required; results from the 2015 annual sampling event found a single exceedance of the GWQS, of arsenic, however, the arsenic concentration is determined to be representative of background conditions, and no further action for ground water is necessary.

FTMM-57 - Building 108 UST Gasoline Release

Historic sampling results at FTMM-57 exhibited an exceedance of the GWQS for lead. Results from the 2015 annual sampling event were below the GWQS for lead; no further action for ground water is acceptable.

FTMM-58 - Building 2567 UST Gasoline

Historic sampling results at FTMM-58 exhibited exceedances of the GWQS for TBA. Results from the 2015 annual sampling event continue to exceed the GWQS for TBA. The submittal recommends continued sampling of well 2567MW01 and the addition of downgradient well 2567MW05 for TBA. One additional round of sampling is recommended for monitoring of 2567MW03 for TBA to confirm compliance for same. The recommendations are acceptable.

Evaluations regarding potential benzene exceedances relative to FTMM-58 continue under separate investigative efforts.

FTMM-64 - Building 812 UST Gasoline

Historic sampling results at FTMM-64 exhibited exceedances of the GWQS for benzene, vinyl chloride and metals. Although results from the 2015 annual sampling event were below the GWQS for contaminants of concern, due to previous analytical results, the submittal recommends continued annual sampling of well 812MWS04 for VOCs. The recommendation is acceptable. If a decision is made to terminate ground water sampling at FTMM-64, confirmatory sampling using the low-flow methodology will be required.

FTMM-66 - Building 886 Former AST

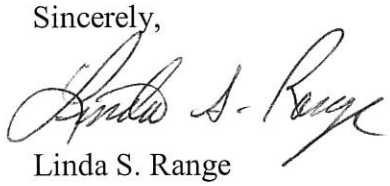
Historic sampling results from wells at FTMM-66 exhibited exceedances of the GWQS for SVOC TICs; results from the 2015 annual sampling event did not exceed the GWQS for SVOC TICs. The submittal recommends the ground water sampling at FTMM-66 be discontinued. The recommendation is acceptable; no further action for ground water is necessary.

FTMM-68 - Building 700 Former Dry Cleaners

Historic sampling results have shown exceedances of the GWQS for PCE, TCE, cis-1,2-DCE and vinyl chloride in ground water. Results from the 2015 annual sampling event confirmed these chlorinated VOCs continue to exceed GSQS in ground water. Long-term ground water monitoring has been suspended until such time as the RI/FS is completed. Upon completion of the RI/FS, a revised monitoring program will be proposed. The recommendation is acceptable.

Please contact this office if you have any questions.

Sincerely,



Linda S. Range

C: James Moore, USACE
Cris Grill, Parsons
Joe Pearson, Calibre
Rick Harrison, FMERA
Joe Fallon, FMERA
Daryl Clark, BGWPA

State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Case Management
401 East State Street
P.O. Box 420/Mail Code 401-05F
Trenton, NJ 08625-0028
Phone #: 609-633-1455
Fax #: 609-633-1439

BOB MARTIN
Commissioner

January 26, 2016

William R. Colvin
BRAC Environmental Coordinator
OACSIM – U.S. Army Fort Monmouth
PO Box 148
Oceanport, NJ 07757

Approval

Re: *Annual (Fourth Quarter) 2014 Groundwater Sampling Report* dated *December 2015*
Fort Monmouth
Oceanport, Monmouth County
PI G000000032

Dear Mr. Colvin:

The New Jersey Department of Environmental Protection (NJDEP) has completed review of the referenced report, received December 7, 2015, prepared by Parsons to support the Remedial Investigation (RI), Feasibility Study (FS), and Decision Documents project at Fort Monmouth. An annual ground water sampling event was conducted at fourteen (14) FTMM sites between September 29, 2014 and December 19, 2014. Sampling methodologies used included low-flow and passive diffusion bag samplers (PDBS). Comments on each FTMM site are as follows:

FTMM-02 Landfill

Historic sampling at this parcel has revealed Ground Water Quality Standard (GWQS) exceedances of VOCs. Results from the annual sampling event confirmed the exceedance of the GWQS for benzene. The report recommends one additional sampling round for wells M2MW11, M2MW21, M2MW22 and M2MW24. The report recommends continued annual VOC monitoring for M2MW03 and M2MW10. The NJDEP finds the recommendations acceptable. As indicated in the submittal, and as previously requested, as this round may be a final sampling round for select monitoring wells at FTMM-02, sampling will be conducted using low-flow purging (LFPS).

FTMM-03 Landfill

Historic sampling at this parcel revealed GWQS exceedances of vinyl chloride. Results from the annual sampling event for well 3MW02 were below GWQS. The GWQS for vinyl chloride was exceeded in well

3MW07. The presence of vinyl chloride is attributed to leaching of PVC piping from well 3MW07 and does not represent ground water conditions at the parcel. The report recommends the abandonment of 3MW07 and discontinuing ground water sampling at FTMM-03. The NJDEP finds the recommendations acceptable.

FTMM-05 Landfill

Historic sampling at this parcel revealed GWQS exceedances of PCE, TCE and vinyl chloride. Results from the annual sampling event exceeded GWQS for PCE and TCE. The report recommends continued annual VOC sampling of wells M5MW11, M5MW16, M5MW20 and M5MW23. The NJDEP finds the recommendations acceptable. At any point where a decision is made to terminate ground water sampling at this parcel, the NJDEP will require confirmatory sampling using low-flow due to PDBS results at this parcel biased low compared to the low-flow results.

FTMM-08 Landfill

Historic sampling at this parcel revealed GWQS exceedances of pesticides, benzene, PCE and lead. Results from the annual sampling event exceeded the GWQS for PCE and pesticides. The report recommends continued annual ground water sampling of well M8MW11 for VOCs and lead, M8MW12 for VOCs and 697MW01 for pesticides and VOCs. The report recommends discontinuing the sampling of M8MW15, M8MW16, M8MW17, M8MW21 and RM8MW24. The NJDEP finds the recommendations acceptable.

FTMM-18 Landfill

Historic sampling at this parcel revealed GWQS exceedances of benzene and 1,2-DCA. Results from the annual sampling event exceeded the GWQS for benzene and 1,2-DCA. The report recommends continued annual ground water sampling of wells M18MW22, M18MW23, 296MW04 and 296MW06 for VOCs using PDBS methodology. The NJDEP finds the recommendations acceptable.

FTMM-22 Former Wastewater Treatment Lime Pit

Historic sampling at this parcel revealed GWQS exceedances of TCE. Results from the annual sampling event exceeded the GWQS for TCE and vinyl chloride. The report recommends continued quarterly VOC sampling of wells CW1MW27, CW1MW28, CW1MW29, CW1MW31, CW1MW37 and CW1MW281. The NJDEP finds the recommendation acceptable. However, due to the increase of VOC concentrations in deep well CW1MW281, the NJDEP requires the quarterly sampling of deep well CW1MW40, which is located hydraulically downgradient of CW1MW281. At any point where a decision is made to terminate ground water sampling at this parcel, the NJDEP will require confirmatory sampling using low-flow methodology due to PDBS results biasing low compared to low-flow results at the Fort Monmouth site.

FTMM-53 Former Gas Station at Building 699

Historic sampling at this parcel revealed GWQS exceedances of benzene, PCE, TCE, TBA, VOC TICs and lead. Results from the annual sampling event exceeded the GWQS for benzene, PCE, 1,2,4-Trimethylbenzene, and VOC TICs. The report recommends continued quarterly VOC sampling of wells 699MW01, 699MW04, 699MW06, 699MW09, 699MW16, 699RW03, 699RW05 and 699RW11

using PDBS. The NJDEP finds the recommendation acceptable. At any point where a decision is made to terminate ground water sampling at this parcel, the NJDEP will require confirmatory sampling using low-flow due to PDBS biasing low compared to low-flow at the Fort Monmouth site.

FTMM-57 Building 108 UST Gasoline Release

Historic sampling at this parcel revealed GWQS exceedances of lead. Results from the annual sampling event were below the GWQS for lead. The report recommends one additional annual sampling of well 108MW04 for lead. The NJDEP finds the recommendation acceptable.

FTMM-58 Building 2567 UST Gasoline

Historic sampling at this parcel revealed GWQS exceedances of TBA. Results from the annual sampling event exceeded the GWQS for TBA. The report recommends continued annual sampling events of wells 2567MW01 and 2567MW03 for TBA. The NJDEP finds the recommendation acceptable.

FTMM-59 Building 1122 Unknown Discharge

Historic sampling at this parcel revealed no GWQS exceedances for VOCs. Results from the annual sampling event were below GWQS for VOCs. The report recommends evaluating the ground water results as part of the approved RI/FS for this parcel. The NJDEP finds the recommendation acceptable.

FTMM-61 Building 283 Gasoline Storage

Historic sampling revealed GWQS exceedances of benzene and VOC TICs. Results from the 2013 and 2014 annual sampling events were below GWQS for VOCs. The report recommends discontinuing the monitoring program at this parcel. The NJDEP finds the recommendation acceptable.

FTMM-64 Building 812 UST Gasoline

Historic sampling at this parcel revealed GWQS exceedances of benzene, vinyl chloride and metals. Results from the 2014 annual sampling event exceeded the GWQS for vinyl chloride. The report recommends continued annual VOC sampling of well 812MW04. The NJDEP finds the recommendation acceptable. If a decision is made to terminate ground water sampling at this parcel, the NJDEP will require confirmatory sampling using low-flow due to PDBS biasing low compared to low-flow at the Fort Monmouth site.

FTMM-66 Building 886 Former AST

Historic sampling revealed GWQS exceedances of benzene, VOC TICs, arsenic and lead. The August 2013 sampling results from wells at this parcel showed exceedances of the GWQS for SVOC TICs. Results from the 2014 annual sampling event did not exceed the GWQS for SVOC TICs. The report recommends one additional sampling round from wells 886RW01, 886RW06 and 886RW08 to confirm that ground water is in compliance with the GWQS. The NJDEP finds the recommendation acceptable.

FTMM-68 Building 700 Former Dry Cleaners

Historic sampling results from August 2013 showed exceedances of the GWQS for PCE, TCE, cis-1,2-DCE and vinyl chloride in wells 565MW01 and 565MW01D. Results from the 2014 annual sampling event confirmed that chlorinated VOCs exceed GWQS in ground water. The report recommends continued quarterly ground water sampling for VOCs. The report also references the RI proposed for implementation in 2015 (the March '15 Revision 1 RIFS WP was approved April 27, 2015), to fully characterize the nature and extent of contamination at this parcel. The NJDEP finds the recommendation of continued quarterly sampling acceptable, and looks forward to receipt of the RI findings.

Miscellaneous

Ground water sample contaminant concentrations (exceedances) should be plotted on future submittal maps as required by the Technical Regulations for Site Remediation and guidance documents.

Finally, please ensure all reports submitted to this office are accompanied by a properly completed certification form, a copy of which is attached.

Please contact this office if you have any questions.

Sincerely,

Linda S. Range

Linda S. Range

C: James Moore, USACE
Cris Grill, Parsons
Joe Pearson, Calibre
Rick Harrison, FMERA
Joe Fallon, FMERA
Frank Barricelli, RAB
Daryl Clark, BGWPA

State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Case Management
401 East State Street
P.O. Box 420/Mail Code 401-05F
Trenton, NJ 08625-0028
Phone #: 609-633-1455
Fax #: 609-633-1439

BOB MARTIN
Commissioner

January 26, 2016

William R. Colvin
BRAC Environmental Coordinator
OACSIM – U.S. Army Fort Monmouth
PO Box 148
Oceanport, NJ 07757

Approval

Re: *Request to Discontinue Long Term Monitoring of Groundwater at FTMM-03 and FTMM-61* dated *November 10, 2015*
Fort Monmouth
Oceanport, Monmouth County
PI G000000032

Dear Mr. Colvin:

The New Jersey Department of Environmental Protection (Department) has completed review of the referenced report, received December 8, 2015, prepared by the Department of the Army. The subject document presents the results of ground water sampling conducted at parcels FTMM-03 and FTMM-61 in 2013 and 2014. Based upon the sampling results, Fort Monmouth is requesting cessation of long-term ground water sampling at the two areas.

FTMM-03 (Landfill)

Historic ground water sampling at FTMM-03 revealed Ground Water Quality Standard exceedances of vinyl chloride in monitor well 3MW07. The vinyl chloride was attributed to leaching of PVC piping from well 3MW07. In 2014, the DEP agreed with a proposal to abandon this well and to conduct sampling solely of 3MW02 for VOCs and metals. The 2014 ground water results for 3MW02 were non-detect for VOCs. Metal exceedances are attributed to background conditions. Based on the analytical results, the proposal to cease ground water sampling is approved.

FTMM-61 (Building 283)

Historic ground water sampling at FTMM-61 indicated elevated levels of benzene and VOC TICs in monitor well 283MW02. The August 2013 sampling of the well using low-flow revealed no exceedances. In 2014, the DEP agreed with a a proposal to sample the well for one additional sampling round to confirm the 2013 results. The 2014 ground water results for well 283MW02 were non-detect for the contaminants of concern. Based on the analytical results, the proposal to cease ground water sampling is approved.

Please contact this office if you have any questions.

Sincerely,

Linda S. Range

Linda S. Range

C: Joe Pearson, Calibre
James Moore, USACE
Rick Harrison, FMERA
Joe Fallon, FMERA
Frank Barricelli, RAB
Daryl Clark, BGWPA

State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Case Management
401 East State Street
P.O. Box 420/Mail Code 401-05F
Trenton, NJ 08625-0028
Phone #: 609-633-1455
Fax #: 609-633-1439

BOB MARTIN
Commissioner

March 16, 2016

William R. Colvin
BRAC Environmental Coordinator
OACSIM – U.S. Army Fort Monmouth
PO Box 148
Oceanport, NJ 07757

Re: *Temporary Suspension of Long Term Monitoring Program for Ground Water at Sites FTMM-22, FTMM-53, FTMM-59 and FTMM-68,* dated *February 18, 2016*
Fort Monmouth
Oceanport, Monmouth County
PI G000000032

Dear Mr. Colvin:

The New Jersey Department of Environmental Protection (NJDEP) has completed review of the referenced submittal. The Army submitted an RI/FS Work Plan for sites FTMM-22, FTMM-53, FTMM-59 and FTMM-68 in September 2013. The work plan, approved by the Department in correspondence dated January 8, 2014, proposed ground water investigations to characterize and delineate ground water contamination for each individual site. It is agreed the proposal to temporarily suspend long-term monitoring while the RI/FS work is completed is appropriate. A revised Long Term Monitoring Program is to be reinstated once the RI/FS process in completed.

Please contact this office if you have any questions.

Sincerely,

Linda S. Range

Linda S. Range

C: Joe Pearson, Calibre
Rick Harrison, FMERA
Joe Fallon, FMERA
James Moore, USACE
Cris Grill, Parsons,
Frank Barricelli, RAB
Daryl Clark, BGWPA

DEPARTMENT OF THE ARMY

OFFICE OF ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT
U.S. ARMY FORT MONMOUTH
P.O. 148
OCEANPORT, NEW JERSEY 07757

November 26, 2014

Linda S. Range
State of New Jersey
Department of Environmental Protection
Bureau of Case Management
401 East Side Street
PO Box 420/Mail Code 401-05F
Trenton, NJ 08625-0028

Subject: **State of New Jersey Department of Environmental Protection Comments on the Final Baseline Groundwater Sampling Report (August 2013) Fort Monmouth, Oceanport, Monmouth County. PI G000000032**

Attachments: A. 2009 Temporary Well Points and Analytical Data

B. Revised Table 7

Dear Ms. Range:

Fort Monmouth (FTMM) and Parsons have reviewed the New Jersey Department of Environmental Protection (NJDEP) comments on the Final Baseline Groundwater Sampling Report (August 2013) as documented in your letter dated July 3, 2014. Response to your comments are provided below in the order in which they were presented in the comment letter.

A. GENERAL COMMENT/STATEMENT:

The New Jersey Department of Environmental Protection (Department) has completed review of the referenced report, dated March 2014, received on April 7, 2014. The report was prepared by Parsons Government Services Inc. (Parsons), in support of the Remedial Investigation (RI), Feasibility Study (FS), and Decision Documents project at Fort Monmouth.

A baseline ground water sampling event was conducted at 21 "sites" at the Fort Monmouth property in August 2013. The purpose of the sampling event was to re-establish baseline conditions following suspension of ground water sampling in late 2011, as well as to evaluate Fort Monmouth's long-term ground water sampling program, and the current analytical conditions of the ground water at each site. Sampling methodologies used included low-flow and passive diffusion bag samplers (PDBS). At four sites (FTMM-14, 18, 59, 68), only PDBS sampling was conducted. At three sites (FTMM-05, 22, 58) both low-flow and PDBS samples were obtained for comparison purposes. Fourteen (14) sites were only sampled using low-flow. The report states that PDBS concentrations were consistently biased somewhat low compared to the low-flow

concentrations. The report concludes, however, that the PDBS results were still similar to the low-flow results and are considered representative of ground water conditions at the sites. Based on this conclusion, the report states that for future ground water sampling, PDBS will be used for all sites where volatile organic compounds (VOCs) are the sole contaminants of concern. Comments are presented below.

Section 3.1; Table 6; Appendices & associated Tables - *The "background concentrations" submitted in the* 1995 *Weston report were not accepted by the Department as representative of background conditions for Fort Monmouth. The study was not performed in accordance with Departmental protocol and is not a consideration in our evaluations/determinations. As indicated in Section* 3.1, *background concentrations are evaluated on a site by site basis.*

A. RESPONSE: Acknowledged,

B. FTMM-02 Landfill

B. COMMENT: *Historic sampling at this parcel indicated levels of VOCs above the Ground Water Quality Standard (GWQS); metals were previously determined to be reflective of naturally occurring conditions. The August 2013 sampling of wells using low-flow confirmed the continued exceedance of the GWQS for VOCs. The report recommends VOC sampling of wells M2MW03, M2MW11, M2MW21, M2MW22 and M2MW24 for two additional rounds using PDBS. Well M2MW10 will be monitored as a down gradient sentinel well. Although the proposal is acceptable, for wells in which the saturated screen length exceeds 10 feet, the deployment of multiple PDBS will be required. At any point where a decision is made to terminate ground water sampling at this site, confirmatory sampling using low-flow due to PDBS biasing low as compared to low-flow results at the Fort Monmouth site will be required.*

B1. RESPONSE: Agreed.

C. FTMM-03 Landfill

C. COMMENT: *Historic sampling at this parcel revealed GWQS exceedances of vinyl chloride and metals. The August 2013 sampling of wells using low-flow confirmed the continued exceedance of the GWQS for vinyl chloride in well 3MW07. Well 3MW02 was not sampled due to low water column and silty conditions; however, Table 4 of Appendix B recommends sampling of 3MW02 for VOCs and metals. The report attributes the presence of vinyl chloride to leaching of PVC piping from well 3MW07. A temporary well point investigation was conducted in 2009 to delineate the vinyl chloride, the results were non-detect, and abandonment of 3MW07 is recommended. The recommendations are acceptable. However, a figure presenting the locations and sampling results from the 2009 temporary well point investigation must be provided to the Department.*

C. RESPONSE: A figure showing the location of 2009 temporary well points and the associated groundwater analytical data are provided in **Attachment A**. Therefore, FTMM will abandon 3MW07 in accordance with NJDEP well abandonment procedures.

D. FTMM-04 Landfill

D. COMMENT: *Historic sampling at this parcel revealed GWQS exceedances of various metals. The August 2013 sampling of wells using low-flow confirmed the continued exceedance of the GWQS for metals. The metals are attributed to background conditions, and cessation of ground water sampling is recommended. The recommendation is acceptable. Monitoring wells at this*

parcel shall be properly abandoned if they are no longer subject to sampling or gaging for water elevation data.

D. RESPONSE: Agreed.

E. FTMM-05 Landfill

E. COMMENT: *Historic sampling at this parcel revealed GWQS exceedances of PCE, TCE and vinyl chloride, which the August 2013 sampling, using low-flow and PDBS, confirmed. The report recommends annual VOC sampling of wells M5MW11, M5MW16, M5MW20 and M5MW23 using PDBS. The Department finds the proposal to be acceptable. At any point where a decision is made to terminate ground water sampling at this parcel, the Department will require confirmatory sampling using low-flow due to PDBS results at this parcel biased low compared to the low-flow results.*

E. RESPONSE: Agreed.

F. FTMM-08 Landfill

F. COMMENT: *Historic sampling at this parcel revealed GWQS exceedances of pesticides, benzene, PCE and lead. The August 2013 sampling of wells using low-flow confirmed the exceedance of the GWQS for PCE and lead. The well with historic pesticide exceedances (697MW01) could not be located and was not sampled. The report recommends annual ground water sampling of well M8MW11 for VOCs and lead, M8MW12, 15, 16 and 24 for VOCs and M8MW17 and 21 for lead only. Monitoring well 697MW01 will be located and sampled for pesticides, lead and VOCs. The recommendation is acceptable.*

F. RESPONSE: Agreed.

G. FTMM-12 Landfill

G. COMMENT: *Historic sampling at this parcel revealed GWQS exceedances of various metals, including arsenic and lead. Historic exceedances of metals except for lead are attributed to background quality. The August 2013 sampling was conducted for lead analysis only. Lead was not detected. The report recommends discontinuing ground water sampling at this parcel. The Department finds the recommendation to be acceptable. Monitoring wells at this parcel shall be properly abandoned if they are no longer subject to sampling or gauging for water elevation data.*

G. RESPONSE: Agreed.

H. FTMM-14 Landfill

H. COMMENT: *Historic sampling at this parcel revealed no GWQS exceedances of VOCs. The August 2013 sampling of wells using PDBS confirmed that there was no exceedance of the GWQS. The report recommends discontinuing ground water sampling at this parcel. The Department finds the recommendation to be acceptable. Monitoring wells at this parcel shall be properly abandoned if they are no longer subject to sampling or gaging for water elevation data. The Department also notes that on Table 1, well M14MW19 is listed as having 10 feet of total screen length. However, the table also lists the saturated screen length as 13.35 feet. This discrepancy should be clarified.*

H. RESPONSE: Agreed. The saturated screen thickness for M14MW19 is 10 feet.

I. FTMM-18 Landfill

I. COMMENT: *Historic sampling at this parcel revealed GWQS exceedances of benzene and 1,2-DCA. The August 2013 sampling results of wells using PDBS showed the exceedance of the GWQS for 1,2-DCA in well M18MW22. Well M18MW23 could not be located and was not sampled. The report recommends annual ground water sampling using PDBS for M18MW22 and M18MW23 if it can be located. Every reasonable effort, such as reviewing the NJ State Plane Coordinates of the well, must be made to locate M18MW23. The use of M18MW22 as the sole monitoring well at this parcel will not be acceptable due to the vast difference in historical concentrations between M18MW22 and M18MW23. Historic 2011 benzene concentrations for M18MW23 were 775 ppb and 664 ppb while 2011 concentrations for M18MW22 were 1.81 ppb and 1.65 ppb. The Department cannot approve the use of PDBS sampling only for this parcel. Once M18MW23 is located, the Department can approve the use of both PDBS and low-flow sampling for comparison purposes.*

I. RESPONSE: M18MW23 has been located and will be sampled using PDB methodology during the 2014 annual sampling event, as the historical concentrations of benzene are appropriate for the use of PDBs. FTMM believes that there is enough low flow data (four sampling events over two years) to characterize the concentrations of the volatile constituents in M18MW23 and that a low-flow PDB comparison is not needed for this well. FTMM will vertically profile this well using PDBs should the saturated screen be greater than 10 feet. In addition to the sampling of M18MW23, M18MW22 will also be sampled using PDB methodology and analyzed for VOCs.

J. FTMM-22 Former Wastewater Treatment Lime Pit

J. COMMENT: *Historic sampling at this parcel revealed GWQS exceedances of TCE. The August 2013 sampling of wells using low-flow and PDBS confirmed the continued exceedance of the GWQS for TCE in ground water. The report recommends quarterly VOC sampling of wells CWlMW27, CWlMW29, CWlMW31 and CWlMW281 using PDBS. The Department finds the proposal to be acceptable. At any point where a decision is made to terminate ground water sampling at this parcel, the Department will require confirmatory sampling using low-flow due to PDBS results biasing low compared to low-flow results at the Fort Monmouth site.*

J. RESPONSE: Agreed.

K. FTMM-25 Landfill

K. COMMENT: *Historic sampling at this parcel revealed GWQS exceedances of various metals. The August 2013 sampling of wells using low-flow confirmed the continued exceedance of the GWQS for metals. The metals are attributed to background conditions. The report recommends discontinuing ground water sampling at this parcel. The Department finds the recommendation to be acceptable. Monitoring wells at this parcel shall be properly abandoned if they are no longer subject to sampling or gauging for water elevation data.*

K. RESPONSE: Agreed.

L. FTMM-53 Building 699

L. COMMENT: *Historic sampling at this parcel revealed GWQS exceedances of benzene, PCE, TCE, TBA, VOC TICs and lead. The August 2013 sampling of wells using low-flow showed the exceedance of the GWQS for benzene, xylenes, PCE, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene and VOC TICs. The report recommends quarterly VOC sampling of wells*

699MW01, 699MW04, 699MW06, 699MW09, 699MW16, 699RW03, 699RW05 and 699RW11 using PDBS. The Department finds the proposal to be acceptable. For wells in which the saturated screen length exceeds 10 feet, the deployment of multiple PDBS will be required. At any point where a decision is made to terminate ground water sampling at this parcel, the Department will require confirmatory sampling using low-flow due to PDBS biasing low compared to low-flow at the Fort Monmouth site.

L. RESPONSE: Agreed.

M. FTMM-54 Building 296

M. COMMENT: *Historic sampling at this parcel revealed GWQS exceedances of benzene, lead and arsenic. The metals are attributed to background conditions. The August 2013 sampling of wells using low-flow showed an exceedance of the GWQS for benzene. The report recommends annual VOC sampling of wells 269MW04 and 296MW06 using PDBS. The Department finds the proposal to be acceptable. For wells in which the saturated screen length exceeds 10 feet, the deployment of multiple PDBS will be required. At any point where a decision is made to terminate ground water sampling at this parcel, the Department will require confirmatory sampling using low-flow due to PDBS biasing low compared to low-flow at the Fort Monmouth site.*

M. RESPONSE: Agreed.

N. FTMM-55 Building 290

N. COMMENT: *Historic sampling at this parcel revealed GWQS exceedances of arsenic and lead. The August 2013 sampling of wells using low-flow confirmed the continued exceedance of the GWQS for lead. The metals are attributed to background conditions. The report recommends discontinuing ground water sampling at this parcel. The Department finds the recommendation to be acceptable. Monitoring wells at this parcel shall be properly abandoned if they are no longer subject to sampling or gauging for water elevation data.*

N. RESPONSE: Agreed.

O. FTMM-56 Building 80

O. COMMENT: *Historic sampling at this parcel revealed GWQS exceedances of chlordane, arsenic, lead and cadmium. The August 2013 sampling of wells was conducted for lead only using low-flow. There were no exceedances of lead. The report recommends one additional sampling round of well 80MW02 for chlordane and 80MW05 for lead. The Department finds the recommendation for well 80MW02 to be acceptable. The Department disagrees with the recommendation to sample well 80MW05 for lead only. The last low-flow sampling event in August 2011 had lead, arsenic and cadmium exceeding both the GWQS and background concentrations. Well 80MW05 shall be sampled during the next round for TAL metals.*

O. RESPONSE: Acknowledged. FTMM will modify the analysis method from lead only to lead, arsenic and cadmium at well 80MW05.

P. FTMM-57 Building 108

P. COMMENT: *Historic sampling at this parcel revealed GWQS exceedances of lead. In the August 2013 sampling event, there were no exceedances of lead in ground water. The report recommends two additional sampling rounds of well 108MW04 for lead. The Department finds the recommendation acceptable.*

P. RESPONSE: Agreed.

Q. FTMM-58 Building 2567

Q. COMMENT: *Historic sampling at this parcel revealed GWQS exceedances of TBA in wells 2567MW01 and 2567MW03. The August 2013 sampling results using low-flow and PDBS were below the GWQS for TBA. The report recommends two annual sampling events for TBA analyses of wells 2567MW01 and 2567MW03 using low-flow. The Department finds the proposal to be acceptable.*

Q. RESPONSE: Agreed.

R. FTMM-59 Building 1122

R. COMMENT: *Historic sampling at this parcel revealed no GWQS exceedances for VOCs. The August 2013 sampling results of wells using PDBS showed no exceedance of VOCs. The text of the report recommends VOC sampling of well 1122MW07 for one additional sampling round to confirm the 2013 results because August 2013 was the first time this well was sampled. The Department finds the proposal to be acceptable. The Department also notes that there is a discrepancy between the recommendation in the text and the recommendation in Table 7. Table 7 recommends that sampling at this parcel be discontinued. Table 7 shall be amended to indicate well 1122MW07 will be sampled for VOCs using PDBS methodology.*

R. RESPONSE: Monitoring well 1122MW07 will be sampled for one additional round during the 2014 annual sampling event using PDB methods. The sample will be analyzed for VOCs. Table 7 has been amended and provided as **Attachment B**.

S. FTMM-61 Building 283

S. COMMENT: *Historic sampling at this parcel revealed GWQS exceedances of metals, benzene and VOC TICs in 283MW02. The August 2013 sampling of wells using low-flow for VOCs and lead showed no exceedances. The report recommends VOC sampling of well 283MW02 for one additional sampling round using PDBS methodology to confirm the 2013 results. The Department finds the proposal to be conditionally acceptable. If the saturated screen length exceeds 10 feet, the deployment of multiple PDBS will be required. If a decision is made to terminate ground water sampling at this parcel based on PDBS results, the Department will require confirmatory sampling using low-flow due to PDBS biasing low compared to low-flow at the Fort Monmouth site.*

S. RESPONSE: Acknowledged. Because the next annual sampling round is intended to be the last round, FTMM will sample 283MW02 using LFPS method.

T. FTMM-64 Building 812

T. COMMENT: *Historic sampling at this parcel revealed GWQS exceedances of benzene, vinyl chloride and metals. The August 2013 sampling of wells using low-flow for VOCs and lead showed no exceedances. The report recommends VOC sampling of well 812MW04 for one additional sampling round using PDBS methodology to confirm the 2013 results (however Section 5.0 recommends sampling be continued on an annual basis). The Department finds the proposal to be conditionally acceptable. If the saturated screen length exceeds 10 feet, the deployment of multiple PDBS will be required. If a decision is made to terminate ground water sampling at this parcel based on PDBS results, the Department will require confirmatory sampling using low-flow due to PDBS biasing low compared to low-flow at the Fort Monmouth site.*

T. RESPONSE: Acknowledged. Because the next annual sampling round is intended to be the last round, FTMM will sample 812MW04 using LFPS method.

U. FTMM-66 Building 886

U. COMMENT: *Historic sampling at this parcel revealed GWQS exceedances of benzene, VOC TICs, arsenic and lead. The August 2013 sampling results from wells using low-flow showed the exceedance of the GWQS for SVOC TICs. The report recommends that sampling at this parcel be discontinued. The Department finds the recommendation unacceptable. Total SVOC TICs exceeded the GWQS of 500 ppb in wells 886RW01 and 886RW06. Ground water monitoring of wells 886RW01, 886RW06 and 886RW08 shall continue for SVOC+TICs using low-flow methodology.*

U. RESPONSE: Agreed. FTMM will continue to monitor 886RW01, 886RW06 and 886RW08 at FTMM-66 for SVOC+TICs using the LFPS method for two additional annual rounds.

V. FTMM-68 Building 700

V. COMMENT: *There are no historic sampling results for this parcel. The August 2013 sampling results of wells using PDBS showed the exceedance of the GWQS for PCE, TCE, cis-l,2-DCE and vinyl chloride in wells 565MW01 and 565MW01D. The report recommends quarterly ground water sampling for VOC+TICs using PDBS for these 2 wells. The Department agrees with the recommendation of quarterly sampling, however, has concerns regarding the use of PDBS for long-term monitoring at this parcel. Unlike the other Fort Monmouth parcels, there are no historical ground water sampling data for comparison with the PDBS results. The DEP's Field Sampling Procedures Manual states that "the intended application of Passive Diffusion Bag Samplers (PDBS) is for long-term monitoring of volatile organic compounds (VOCs) in ground water at well-characterized sites." The Department would find long-term sampling of the wells using PDBS acceptable if low-flow sampling is conducted concurrently once or twice for comparison.*

V. RESPONSE: Fort Monmouth agrees that FTMM-68 has not been fully characterized, however a remedial investigation (RI) is proposed for this site in the near future and the sampling of existing and proposed wells using the LFPS method is proposed in the RI. In the meantime Fort Monmouth proposes to continue to use PDBs to characterize the concentrations. The two existing wells are located in the potential source area and the detected VOCs have a high enough concentration that PDBs, while they tend to bias low, can effectively capture the nature of the VOC concentrations. A work plan for the RI has been submitted to NJDEP and is awaiting approval. During the RI the two existing wells along with new wells will be sampled using LFPS methods and a PDB/LFPS comparison will be made at that time. Additionally, once the RI is complete, a revised long-term monitoring plan will be submitted.

W. GENERAL COMMENT/STATEMENT:

Finally, each of the above comments speak only to the ground water findings and recommendations included in the referenced submittal, rather than to the ground water at the entire site.

W. RESPONSE: Acknowledged.

Please contact me if you have any questions.

Sincerely,

Wanda Green

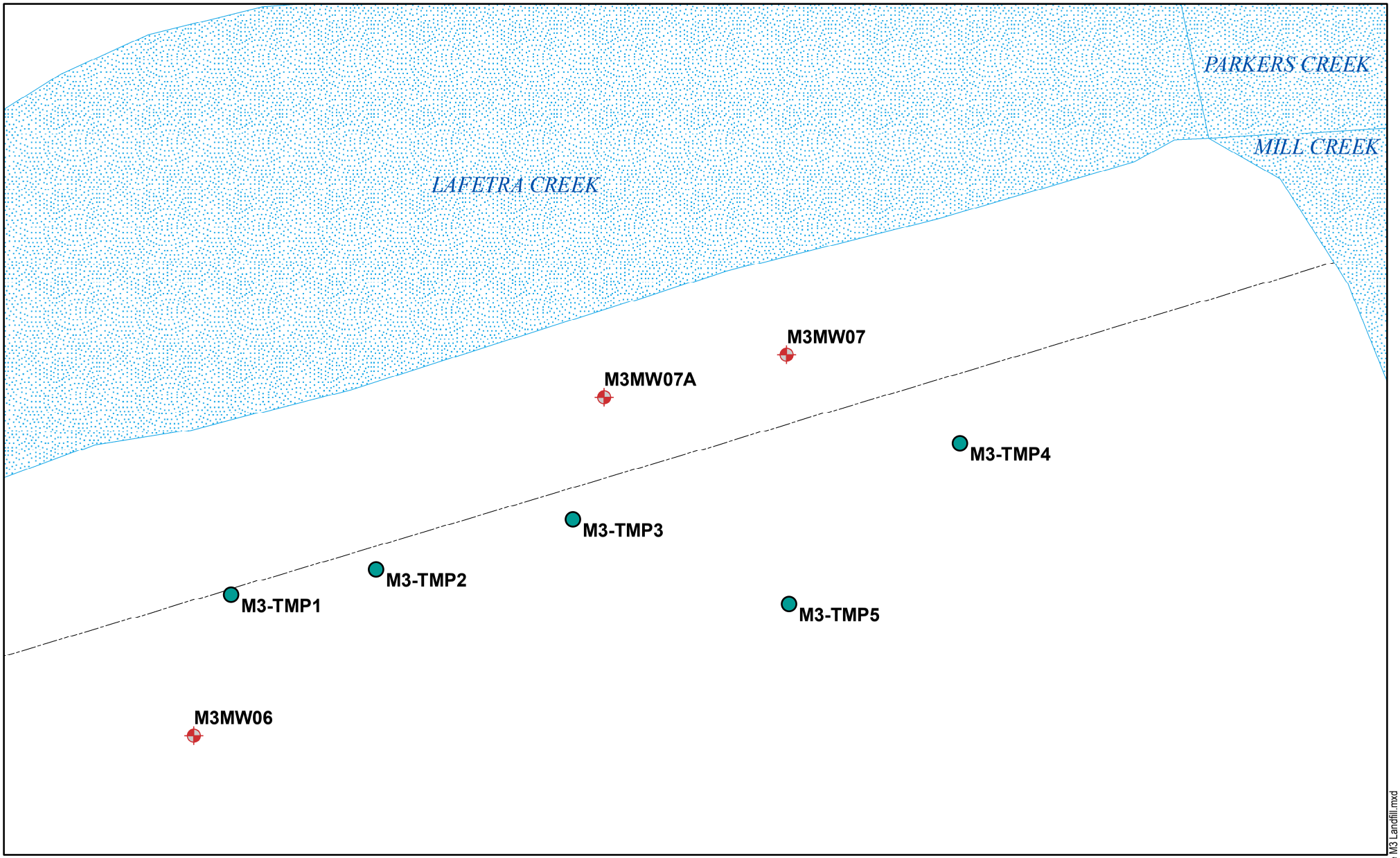
Wanda Green
BRAC Environmental Coordinator
OACSIM – U.S. Army Fort Monmouth

Cc: Parsons
USACE

Encl

ATTACHMENT A

M-3 Landfill Temporary Well Points (February 8, 2011) and Analytical Data Report (November 2, 2009)



0 10 20 40 Feet

N
W E
S

M-3 Landfill
Temporary Well Points
Fort Monmouth, New Jersey

Legend

- Monitoring Well
- Temp. Wells
- Water Body
- Post Boundaries

Map Created by:
Fort Monmouth Installation GIO, Environmental Division
Fort Monmouth, New Jersey
Date: February 8, 2011
New Jersey State Plane Feet, NAD83
All drawings must be field verified.

February 8, 2011 H:\GIS\GIS Maps\UTIPR05\Site M3 Landfill.mxd

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732) 532-6224 FAX: (732) 532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING
CERTIFICATIONS: NJDEP #13461

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: M3 Landfill

M3/Landfill

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
M3-TMP-01A	9043301	Aqueous	02-Nov-09 10:14	11/02/09
M3-TMP-01B	9043302	Aqueous	02-Nov-09 10:44	11/02/09
M3-TMP-02A	9043303	Aqueous	02-Nov-09 11:15	11/02/09
M3-TMP-02B	9043304	Aqueous	02-Nov-09 11:35	11/02/09
M3-TMP-03A	9043305	Aqueous	02-Nov-09 13:33	11/02/09
M3-TMP-03B	9043306	Aqueous	02-Nov-09 13:50	11/02/09
M3-TMP-04A	9043307	Aqueous	02-Nov-09 14:15	11/02/09
M3-TMP-04B	9043308	Aqueous	02-Nov-09 14:30	11/02/09
M3-FB	9043309	Aqueous	02-Nov-09 14:40	11/02/09
M3-TMP-05A	9043310	Aqueous	02-Nov-09 15:15	11/02/09
Trip Blank	9043311	Aqueous	02-Nov-09 08:25	11/02/09
M3-TMP-05B	9043312	Aqueous	02-Nov-09 13:40	11/02/09

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
VOA+15

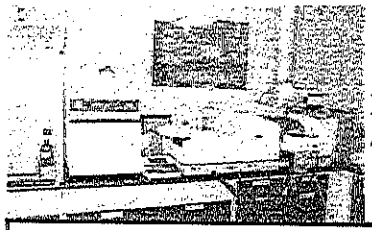
Jacqueline Hamer/Date: 11/12/09
QA/QC Supervisor

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

Table of Contents

Section	Page No.
Chain of Custody	1-3
Method Summary	4-5
Laboratory Chronicle	6-7
Conformance/Non-Conformance Summary	8-10
Volatile Organics	11
Qualifier Code	12
Results Summary	13-38
Tuning Results Summary	39-46
Method Blank Summary	47
Surrogate Results Summary	48
MS/MSD Results Summary	49
Internal Standard Area Summary	50
Raw Sample Data	51-82
Laboratory Deliverable Check List	83
Laboratory Authentication Statement	84

CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:jacqueline.hamer@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Joe Fallon | Project No: | Analysis Parameters | Comments:

Phone #: 732-532-6223 | Location: M3

( )DERA ( )OMA ( )Other: BRAC

Samplers Name / Company: John Montgomery

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	VOCs								Remarks / Preservation Method
90433 01	M3-TMP-01A	11-2-09	1014	AQ	2	X								
02	M3-TMP-01B	11-2-09	1044	AQ	2	X								
03	M3-TMP-02A	11-2-09	1115	AQ	2	X								
04	M3-TMP-02B	11-2-09	1135	AQ	2	X								
05	M3-TMP-03A	11-2-09	1333	AQ	2	X								
06	M3-TMP-03B	11-2-09	1350	AQ	2	X								
07	M3-TMP-04A	11-2-09	1415	AQ	2	X								
08	M3-TMP-04B	11-2-09	1430	AQ	2	X								
09	M3-FB	11-2-09	1440	AQ	2	X								
10	M3-TMP-05A	11-2-09	1515	AQ	2	X								
11	Trip Blank	11-2-09	825	AQ	2	X								
12	M3-TMP-05B	11-2-09	1340	AQ	2	X								

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
John Montgomery	11-2-09 1550				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, ( )Reduced, (X)Standard, ( )Screen / non-certified, ( )EDD Full X

Turnaround time: ( )Standard 3 wks, (X)Rush Wk., ( )ASAP Verbal ____Hrs.

Comments:

print legibly

new coc._1.XLS10/9/2009

Fort Monmouth, BRAC 05 Facility
Contract Number W912DY-09-D-0062, Task Order 0012
E-26
000002
Appendix E

SAMPLE RECEIPT FORM

Date Received: 11-2-09 Work Order ID#: 90433

Site/Proj. Name: M3/Landfill Cooler Temp (°C): ICE

Received By: J. Verguna Sign:
(Print name)

Check the appropriate box

1. Did the samples come in a cooler? ☑ yes ☐ no ☐ n/a
2. Were samples rec'd in good condition? ☑ yes ☐ no
3. Was the chain of custody filled out correctly and legibly? ☑ yes ☐ no
4. Was the chain of custody signed in the appropriate place? ☑ yes ☐ no
5. Did the labels agree with the chain of custody? ☑ yes ☐ no
6. Were the correct containers/preservatives used? ☑ yes ☐ no
7. Was a sufficient amount of sample supplied? ☑ yes ☐ no
8. Were air bubbles present in VOA vials? ☐ yes ☑ no ☐ n/a
9. Were samples received on ice? ☑ yes ☐ no
10. Were analyze-immediately tests perform within 15 minutes ☐ yes ☐ no ☑ n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

METHOD SUMMARY

Method Summary

EPA Method 624–Aqueous
Gas Chromatographic Determination of Volatiles in Water

A 5-ml volume of sample is added to 5-ml aliquot of water. Surrogates and internal standards are added and the sample is placed on a purge and trap concentrator. The sample is purged and desorbed into a GC/MS system. Volatiles are then identified and quantitated.

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 90433 **Site:** M3/LANDFILL

	Date	Hold Time
Date Sampled	11/02/09	NA
Receipt/Refrigeration	11/02/09	NA
Analyses		
1. Volatile Organics	11/03/09	14 Days

CONFORMANCE/ NON-CONFORMANCE SUMMARY

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

	Indicate Yes, No, N/A
1. Chromatograms labeled/Compounds identified (Field samples and method blanks)	yes
2. Retention times for chromatograms provided	yes
3. GC/MS Tune Specifications	
a. BFB Meet Criteria	yes
b. DFTPP Meet Criteria	NA
4. GC/MS Tuning Frequency – Performed every 24 hours for 600 series and 12 hours for 8000 series	yes
5. GC/MS Calibration – Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series	yes
6. GC/MS Calibration requirements	
a. Calibration Check Compounds Meet Criteria	yes
b. System Performance Check Compounds Meet Criteria	yes
7. Blank Contamination – If yes, List compounds and concentrations in each blank:	NO
a. VOA Fraction	
b. B/N Fraction NA	
c. Acid Fraction NA	
8. Surrogate Recoveries Meet Criteria	yes
If not met, list those compounds and their recoveries, which fall outside the acceptable range:	
a. VOA Fraction	
b. B/N Fraction NA	
c. Acid Fraction NA	
If not met, were the calculations checked and the results qualified as "estimated"?	
9. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (If not met, list those compounds and their recoveries, which fall outside the acceptable range)	NO
a. VOA Fraction Some Compounds failed with high recoveries	
b. B/N Fraction NA	
c. Acid Fraction NA	

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT (cont.)

Indicate
Yes, No, N/A

10. Internal Standard Area/Retention Time Shift Meet Criteria — (Yes)
(If not met, list those compounds, which fall outside the acceptable range)

    a. VOA Fraction _____
    b. B/N Fraction NA
    c. Acid Fraction NA

11. Extraction Holding Time Met — NA

If not met, list the number of days exceeded for each sample: _____

12. Analysis Holding Time Met — Yes

If not met, list the number of days exceeded for each sample: _____

Additional Comments:

Laboratory Manager: [signature] Date: 11/12/09

VOLATILE ORGANICS

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

U: The compound was analyzed for but not detected.

B: Indicates that the compound was found in the associated method blank as well as in the sample.

J: Indicates an estimated value. This flag is used:
(1) When the mass spec and retention time data indicate the presence of a compound however the result is less than the reporting limit but greater than the MDL.
(2) When estimating the concentration of a tentatively identified compound (TIC), where a 1:1 response is assumed.

D: This flag is used to identify all compounds (target or TIC) that required a dilution.

E: Indicates the compound's concentration exceeds the calibration range of the instrument for that specific analysis.

N: This flag is only used for TICs. It indicates the presumptive evidence of a compound. For a generic characterization of a TIC, such as unknown hydrocarbon, the flag is not used.

000012

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VA4808.D	Sample Name	MB11030901
Operator	ROBERTS	Field ID	METHOD 624 11/3/09
Date Acquired	3 Nov 2009 3:24 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.09 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	1.64 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.89 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.18 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.12 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.22 ug/L	1.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.10 ug/L	1.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	1.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.25 ug/L	1.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.22 ug/L	1.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.18 ug/L	1.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.20 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.18 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.18 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.16 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.20 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.19 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	0.50 ug/L	
78-93-3	2-Butanone			not detected	300	0.16 ug/L	1.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.14 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.21 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.17 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.27 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.16 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.19 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.16 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.25 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.16 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.26 ug/L	1.00 ug/L	
108-88-3	Toluene			not detected	1000	0.15 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.12 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.20 ug/L	0.50 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.15 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.16 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.15 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.27 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.12 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	1.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.12 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.12 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MB11030901

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 90433

Matrix: (soil/water) WATER Lab Sample ID: MB11030901

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA4808.D

Level: (low/med) LOW Date Received: 11/2/2009

% Moisture: not dec. Date Analyzed: 11/3/2009

GC Column: RTX-VM ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 3/90

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VA4820.D	Sample Name	9043311
Operator	ROBERTS	Field ID	M-3 TRIP BLANK
Date Acquired	3 Nov 2009 9:35 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.09 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	1.64 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.89 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.18 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.12 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.22 ug/L	1.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.10 ug/L	1.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	1.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.25 ug/L	1.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.22 ug/L	1.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.18 ug/L	1.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.20 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.18 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.18 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.16 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.20 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.19 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	0.50 ug/L	
78-93-3	2-Butanone			not detected	300	0.16 ug/L	1.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.14 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.21 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.17 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.27 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.16 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.19 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.16 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.25 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.16 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.26 ug/L	1.00 ug/L	
108-88-3	Toluene			not detected	1000	0.15 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.12 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.20 ug/L	0.50 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.15 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.16 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.15 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.27 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.12 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	1.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.12 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.12 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M3-TRIP BLANK

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 90433

Matrix: (soil/water) WATER Lab Sample ID: 9043311

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA4820.D

Level: (low/med) LOW Date Received: 11/2/2009

% Moisture: not dec. Date Analyzed: 11/3/2009

GC Column: RTX-VM ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VA4818.D	Sample Name	9043309
Operator	ROBERTS	Field ID	M-3 FB
Date Acquired	3 Nov 2009 8:33 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.09 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	1.64 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.89 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.18 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.12 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.22 ug/L	1.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.10 ug/L	1.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	1.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.25 ug/L	1.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.22 ug/L	1.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.18 ug/L	1.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.20 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.18 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.18 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.16 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.20 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.19 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	0.50 ug/L	
78-93-3	2-Butanone			not detected	300	0.16 ug/L	1.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.14 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.21 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.17 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.27 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.16 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.19 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.16 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.25 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.16 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.26 ug/L	1.00 ug/L	
108-88-3	Toluene			not detected	1000	0.15 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.12 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.20 ug/L	0.50 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.15 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.16 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.15 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.27 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.12 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	1.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.12 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.12 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M3-FB

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 90433

Matrix: (soil/water) WATER Lab Sample ID: 9043309

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA4818.D

Level: (low/med) LOW Date Received: 11/2/2009

% Moisture: not dec. Date Analyzed: 11/3/2009

GC Column: RTX-VM ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VA4810.D	Sample Name	9043301
Operator	ROBERTS	Field ID	M-3 TMP-01A
Date Acquired	3 Nov 2009 4:26 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.09 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	1.64 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.89 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.18 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.12 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.22 ug/L	1.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.10 ug/L	1.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	1.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.25 ug/L	1.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.22 ug/L	1.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.18 ug/L	1.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.20 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.18 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.18 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.16 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.20 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.19 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	0.50 ug/L	
78-93-3	2-Butanone			not detected	300	0.16 ug/L	1.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.14 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.21 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.17 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.27 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.16 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.19 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.16 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.25 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.16 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.26 ug/L	1.00 ug/L	
108-88-3	Toluene			not detected	1000	0.15 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.12 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.20 ug/L	0.50 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.15 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.16 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.15 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.27 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.12 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	1.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.12 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.12 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M3-TMP-01A

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 90433

Matrix: (soil/water) WATER Lab Sample ID: 9043301

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA4810.D

Level: (low/med) LOW Date Received: 11/2/2009

% Moisture: not dec. Date Analyzed: 11/3/2009

GC Column: RTX-VM ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 3/90

000020

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VA4811.D	Sample Name	9043302
Operator	ROBERTS	Field ID	M-3 TMP-01B
Date Acquired	3 Nov 2009 4:57 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.09 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	1.64 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.89 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.18 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.12 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.22 ug/L	1.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.10 ug/L	1.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	1.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.25 ug/L	1.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.22 ug/L	1.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.18 ug/L	1.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.20 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.18 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.18 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.16 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.20 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.19 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	0.50 ug/L	
78-93-3	2-Butanone			not detected	300	0.16 ug/L	1.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.14 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.21 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.17 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.27 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.16 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.19 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.16 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.25 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.16 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.26 ug/L	1.00 ug/L	
108-88-3	Toluene			not detected	1000	0.15 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.12 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.20 ug/L	0.50 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.15 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.16 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.15 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.27 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.12 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	1.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.12 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.12 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M3-TMP-01B

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 90433

Matrix: (soil/water) WATER Lab Sample ID: 9043302

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA4811.D

Level: (low/med) LOW Date Received: 11/2/2009

% Moisture: not dec. Date Analyzed: 11/3/2009

GC Column: RTX-VM ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 3/90

000022

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VA4812.D	Sample Name	9043303
Operator	ROBERTS	Field ID	M-3 TMP-02A
Date Acquired	3 Nov 2009 5:27 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.09 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	1.64 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.89 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.18 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.12 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.22 ug/L	1.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.10 ug/L	1.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	1.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.25 ug/L	1.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.22 ug/L	1.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.18 ug/L	1.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.20 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.18 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.18 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.16 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.20 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.19 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	0.50 ug/L	
78-93-3	2-Butanone			not detected	300	0.16 ug/L	1.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.14 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.21 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.17 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.27 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.16 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.19 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.16 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.25 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.16 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.26 ug/L	1.00 ug/L	
108-88-3	Toluene			not detected	1000	0.15 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.12 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.20 ug/L	0.50 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.15 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.16 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.15 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.27 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.12 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	1.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.12 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.12 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
M3-TMP-02A

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 90433

Matrix: (soil/water) WATER Lab Sample ID: 9043303

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA4812.D

Level: (low/med) LOW Date Received: 11/2/2009

% Moisture: not dec. Date Analyzed: 11/3/2009

GC Column: RTX-VM ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VA4813.D	Sample Name	9043304
Operator	ROBERTS	Field ID	M-3 TMP-02B
Date Acquired	3 Nov 2009 5:58 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.09 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	1.64 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.89 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.18 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.12 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.22 ug/L	1.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.10 ug/L	1.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	1.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.25 ug/L	1.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.22 ug/L	1.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.18 ug/L	1.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.20 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.18 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.18 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.16 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.20 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.19 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	0.50 ug/L	
78-93-3	2-Butanone			not detected	300	0.16 ug/L	1.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.14 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.21 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.17 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.27 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.16 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.19 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.16 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.25 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.16 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.26 ug/L	1.00 ug/L	
108-88-3	Toluene			not detected	1000	0.15 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.12 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.20 ug/L	0.50 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.15 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.16 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.15 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.27 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.12 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	1.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.12 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.12 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M3-TMP-02B

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 90433

Matrix: (soil/water) WATER Lab Sample ID: 9043304

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA4813.D

Level: (low/med) LOW Date Received: 11/2/2009

% Moisture: not dec. Date Analyzed: 11/3/2009

GC Column: RTX-VM ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 3/90

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VA4814.D	Sample Name	9043305
Operator	ROBERTS	Field ID	M-3 TMP-03A
Date Acquired	3 Nov 2009 6:29 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.09 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	1.64 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.89 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.18 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.12 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.22 ug/L	1.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.10 ug/L	1.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	1.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.25 ug/L	1.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.22 ug/L	1.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.18 ug/L	1.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.20 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.18 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.18 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.16 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.20 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.19 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	0.50 ug/L	
78-93-3	2-Butanone			not detected	300	0.16 ug/L	1.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.14 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.21 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.17 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.27 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.16 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.19 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.16 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.25 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.16 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.26 ug/L	1.00 ug/L	
108-88-3	Toluene			not detected	1000	0.15 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.12 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.20 ug/L	0.50 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene	15.75	7105	0.20 ug/L	50	0.15 ug/L	0.50 ug/L	J
100-41-4	Ethylbenzene			not detected	700	0.16 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.15 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.27 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene	16.89	10649	0.29 ug/L	100	0.12 ug/L	0.50 ug/L	J
75-25-2	Bromoform			not detected	4	0.14 ug/L	1.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.12 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.12 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

C:\HPCHEM\Custrpt\Volatile\2007\624FY09.CRT

000027

11/4/2009 8:34 AM

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
M3-TMP-03A

Lab Name: FMETL Contract:
Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 90433
Matrix: (soil/water) WATER Lab Sample ID: 9043305
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA4814.D
Level: (low/med) LOW Date Received: 11/2/2009
% Moisture: not dec. Date Analyzed: 11/3/2009
GC Column: RTX-VM ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 3

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	Alkene: Branched	11.47	5	J
2.	Alkane: Cyclic	12.84	4	J
3.	Alkane: Cyclic	13.41	3	J

FORM I VOA-TIC 3/90

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VA4815.D	Sample Name	9043306
Operator	ROBERTS	Field ID	M-3 TMP-03B
Date Acquired	3 Nov 2009 7:00 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.09 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	1.64 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.89 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.18 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.12 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.22 ug/L	1.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.10 ug/L	1.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	1.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.25 ug/L	1.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.22 ug/L	1.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.18 ug/L	1.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.20 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.18 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.18 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.16 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.20 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.19 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	0.50 ug/L	
78-93-3	2-Butanone			not detected	300	0.16 ug/L	1.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.14 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.21 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.17 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.27 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.16 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.19 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.16 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.25 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.16 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.26 ug/L	1.00 ug/L	
108-88-3	Toluene			not detected	1000	0.15 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.12 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.20 ug/L	0.50 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene	15.75	18444	0.48 ug/L	50	0.15 ug/L	0.50 ug/L	J
100-41-4	Ethylbenzene			not detected	700	0.16 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.15 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.27 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene	16.89	16127	0.40 ug/L	100	0.12 ug/L	0.50 ug/L	J
75-25-2	Bromoform			not detected	4	0.14 ug/L	1.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.12 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.12 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
M3-TMP-03B

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 90433

Matrix: (soil/water) WATER Lab Sample ID: 9043306

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA4815.D

Level: (low/med) LOW Date Received: 11/2/2009

% Moisture: not dec. Date Analyzed: 11/3/2009

GC Column: RTX-VM ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 13

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	Alkane: Cyclic	9.14	11	J
2.	unknown hydrocarbon	10.24	4	J
3.	Alkane: Cyclic	10.39	8	J
4.	Alkane: Cyclic	10.47	9	J
5.	Alkane: Cyclic	10.55	14	J
6.	Alkane: Cyclic	11.47	32	J
7.	Alkane: Cyclic	11.78	3	J
8.	Alkane: Cyclic	11.99	4	J
9.	Alkane: Cyclic	12.83	18	J
10.	Alkane: Cyclic	13.15	6	J
11.	Alkane: Cyclic	13.41	14	J
12.	Alkane: Cyclic	13.55	7	J
13.	Alkane: Cyclic	14.24	8	J

FORM I VOA-TIC 3/90

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VA4816.D	Sample Name	9043307
Operator	ROBERTS	Field ID	M-3 TMP-04A
Date Acquired	3 Nov 2009 7:31 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.09 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	1.64 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.89 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.18 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.12 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.22 ug/L	1.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.10 ug/L	1.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	1.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.25 ug/L	1.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.22 ug/L	1.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.18 ug/L	1.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.20 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.18 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.18 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.16 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.20 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.19 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	0.50 ug/L	
78-93-3	2-Butanone			not detected	300	0.16 ug/L	1.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.14 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.21 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.17 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.27 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.16 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.19 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.16 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.25 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.16 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.26 ug/L	1.00 ug/L	
108-88-3	Toluene			not detected	1000	0.15 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.12 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.20 ug/L	0.50 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene	15.75	13791	0.39 ug/L	50	0.15 ug/L	0.50 ug/L	J
100-41-4	Ethylbenzene			not detected	700	0.16 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.15 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.27 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.12 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	1.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.12 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.12 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M3-TMP-04A

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 90433

Matrix: (soil/water) WATER Lab Sample ID: 9043307

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA4816.D

Level: (low/med) LOW Date Received: 11/2/2009

% Moisture: not dec. Date Analyzed: 11/3/2009

GC Column: RTX-VM ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 3/90

000032

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VA4817.D	Sample Name	9043308
Operator	ROBERTS	Field ID	M-3 TMP-04B
Date Acquired	3 Nov 2009 8:02 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result		Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not	detected	5	2.09 ug/L	5.00 ug/L	
107131	Acrylonitrile			not	detected	2	1.64 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not	detected	100	1.89 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not	detected	70	0.18 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not	detected	20000	0.12 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not	detected	1000	0.22 ug/L	1.00 ug/L	
74-87-3	Chloromethane			not	detected	nle	0.10 ug/L	1.00 ug/L	
75-01-4	Vinyl Chloride			not	detected	1	0.22 ug/L	1.00 ug/L	
74-83-9	Bromomethane			not	detected	10	0.25 ug/L	1.00 ug/L	
75-00-3	Chloroethane			not	detected	nle	0.22 ug/L	1.00 ug/L	
75-69-4	Trichlorofluoromethane			not	detected	2000	0.18 ug/L	1.00 ug/L	
75-35-4	1,1-Dichloroethene			not	detected	1	0.20 ug/L	0.50 ug/L	
67-64-1	Acetone			not	detected	6000	0.18 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not	detected	700	0.18 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not	detected	3	0.16 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not	detected	100	0.20 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not	detected	50	0.19 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not	detected	7000	0.20 ug/L	0.50 ug/L	
78-93-3	2-Butanone			not	detected	300	0.16 ug/L	1.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not	detected	70	0.14 ug/L	0.50 ug/L	
67-66-3	Chloroform			not	detected	70	0.21 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not	detected	30	0.17 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not	detected	1	0.27 ug/L	0.50 ug/L	
71-43-2	Benzene			not	detected	1	0.16 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not	detected	2	0.19 ug/L	0.50 ug/L	
79-01-6	Trichloroethene	11.42	8647	0.63	ug/L	1	0.18 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not	detected	1	0.16 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not	detected	1	0.14 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not	detected	nle	0.25 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not	detected	1	0.16 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not	detected	nle	0.26 ug/L	1.00 ug/L	
108-88-3	Toluene			not	detected	1000	0.15 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not	detected	1	0.12 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not	detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not	detected	1	0.18 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not	detected	nle	0.20 ug/L	0.50 ug/L	
126-48-1	Dibromochloromethane			not	detected	1	0.14 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not	detected	50	0.15 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not	detected	700	0.16 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not	detected	1	0.15 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not	detected	nle	0.27 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not	detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not	detected	100	0.12 ug/L	0.50 ug/L	
75-25-2	Bromoform			not	detected	4	0.14 ug/L	1.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not	detected	1	0.12 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not	detected	600	0.12 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not	detected	75	0.12 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not	detected	600	0.12 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

C:\HPCHEM\Custrpt\Volatile\2007\624FY09.CRT

000033

11/4/2009 8:35 AM

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
M3-TMP-04B

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 90433

Matrix: (soil/water) WATER Lab Sample ID: 9043308

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA4817.D

Level: (low/med) LOW Date Received: 11/2/2009

% Moisture: not dec. Date Analyzed: 11/3/2009

GC Column: RTX-VM ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VA4819.D	Sample Name	9043310
Operator	ROBERTS	Field ID	M-3 TMP-05A
Date Acquired	3 Nov 2009 9:04 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.09 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	1.64 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.89 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.18 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.12 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.22 ug/L	1.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.10 ug/L	1.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	1.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.25 ug/L	1.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.22 ug/L	1.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.18 ug/L	1.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.20 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.18 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.18 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.16 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.20 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.19 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	0.50 ug/L	
78-93-3	2-Butanone			not detected	300	0.16 ug/L	1.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.14 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.21 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.17 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.27 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.16 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.19 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.16 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.25 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.16 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.26 ug/L	1.00 ug/L	
108-88-3	Toluene			not detected	1000	0.15 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.12 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.20 ug/L	0.50 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.15 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.16 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.15 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.27 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.12 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	1.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.12 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.12 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
M3-TMP-05A

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 90433

Matrix: (soil/water) WATER Lab Sample ID: 9043310

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA4819.D

Level: (low/med) LOW Date Received: 11/2/2009

% Moisture: not dec. Date Analyzed: 11/3/2009

GC Column: RTX-VM ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 3/90

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VA4821.D	Sample Name	9043312
Operator	ROBERTS	Field ID	M-3 TMP-05B
Date Acquired	3 Nov 2009 10:05 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.09 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	1.64 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.89 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.18 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.12 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.22 ug/L	1.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.10 ug/L	1.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	1.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.25 ug/L	1.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.22 ug/L	1.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.18 ug/L	1.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.20 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.18 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.18 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.16 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.20 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.19 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	0.50 ug/L	
78-93-3	2-Butanone			not detected	300	0.16 ug/L	1.00 ug/L	
156-59-2	cis-1,2-Dichloroethene	9.66	13115	0.94 ug/L	70	0.14 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.21 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.17 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.27 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.16 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.19 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.16 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.25 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.16 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.26 ug/L	1.00 ug/L	
108-88-3	Toluene	13.37	22984	0.46 ug/L	1000	0.15 ug/L	0.50 ug/L	J
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.12 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.18 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.20 ug/L	0.50 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.14 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene	15.75	10326	0.30 ug/L	50	0.15 ug/L	0.50 ug/L	J
100-41-4	Ethylbenzene			not detected	700	0.16 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.15 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.27 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.12 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	1.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.12 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.12 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.12 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

C:\HPCHEM\Custrpt\Volatile\2007\624FY09.CRT

000037

11/4/2009 8:36 AM

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
M3-TMP-05B

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 90433

Matrix: (soil/water) WATER Lab Sample ID: 9043312

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA4821.D

Level: (low/med) LOW Date Received: 11/2/2009

% Moisture: not dec. Date Analyzed: 11/3/2009

GC Column: RTX-VM ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000496-11-7	Indane	20.42	3	JN

FORM I VOA-TIC 3/90

000038

ATTACHMENT B

Table 7 Summary of Long Term Monitoring Recommendations August 2013 Baseline Groundwater Sampling Report

Table 7
Summary of Long Term Monitoring Recommendations
August 2013 Baseline Groundwater Sampling Report
Fort Monmouth, New Jersey

Site	Historical Exceedances		August 2013 Exceedances[1]		August 2013 Sampling				Recommended Sampling in 2014[2]				Frequency		Comments
	Monitoring Wells (MWs) Exhibiting Exceedances	Analytes	MWs Exhibiting Exceedances	Analytes	Number of MWs sampled	Monitoring wells sampled	Analysis	Sampling methodology	Number of MWs to be sampled	MWs to be sampled	Analysis	Sampling Methodology	Performance Work Statement (PWS)	August 2013 recommendation	
M2	M2MW02 to M2MW13, M2MW21 to M2MW24	Metals, benzene, chlorobenzene, TBA	M2MW03	Benzene, chlorobenzene	16	M2MW02 to M2MW13, M2MW21 to M2MW24	VOCs & TICs-EPA Method 8260C Pesticides-EPA Method 8081B	LFPS	6	M2MW03, M2MW10, M2MW11, M2MW21, M2MW22, M2MW24	VOCs-EPA Method 8260C	PDB	Two rounds	Two additional rounds of sampling - PDB	Metals sampling discontinued due to background sources. Pesticides sampling is not recommended due to no detection in August 2013. Well to be retained for downgradient monitoring of benzene.
M3	M3MW02, M3MW04 to M3MW14, M3MW07A,	Metals, VC	M3MW07	VC	12	M3MW04 to M3MW14, M3MW07A,	VOCs & TICs-EPA Method 8260C Metals-EPA Method 6010C/7470A	LFPS	1	M3MW02	VOCs-EPA Method 8260C Metals-EPA Method 6010C/7470A (M3MW02)	LFPS	Annual	One additional round - LFPS	Metals sampling discontinued due to background sources. M3MW02 not sampled due to low water column and silt. Sample for VOCs and metals in next round.
M4	M4MW07 to M4MW10	Metals	None	N/A	6	M4MW05 to M4MW10	VOCs & TICs-EPA Method 8260C Metals-EPA Method 6010C/7470A	LFPS	0	N/A	N/A	N/A	Two rounds	Discontinued	Metals sampling discontinued due to background sources. No exceedances, discontinue sampling.
M5	M5MW11, M5MW16, M5MW20, M5MW23	PCE, TCE, VC	M5MW11, M5MW16, M5MW20, M5MW23	PCE, TCE, VC	10	M5MW10 to M5MW16, M5WM18 to M5MW20, M5MW23	VOCs & TICs-EPA Method 8260C	PDB	4	M5MW11, M5MW16, M5MW20, M5MW23	VOCs-EPA Method 8260C	PDB	Annual	Annual - PDB	
M8	M8MW11 to M8MW23, RM8MW24, 697MW01	Metals, benzene	M8MW12, M8MW14	Pb, PCE	13	M8MW12 to M8MW23, RM8MW24	VOCs & TICs-EPA Method 8260C Pesticides-EPA Method 8081B Lead-EPA Method 6010C	LFPS	8	M8MW11, M8MW12, M8MW15, M8MW16, M8MW17, M8MW21, M8MW24, 697MW01	Pb-EPA Method 6010C (M8MW11, M8MW17, M8MW21, and 697MW01), VOCs-EPA Method 8260C (M8MW11, M8MW12, M8MW15, and 697MW01) Pesticides-EPA Method 8081B (697MW01)	LFPS	Annual	Annual - LFPS	Metals sampling discontinued due to background sources at the exception of Pb (M8MW11, M8MW17, and M8MW21) and Mn (M8MW14). PCE was the only VOCs exceedance in August 2013. M8MW11 was not part of the Aug 2013 baseline sampling. Due to historical exceedances for Pb, reintroduced in long term monitoring sampling program. 697MW01 not sampled in August 2013. Must locate and sample for VOC, Pb, and pesticides.
M12	M12MW11 to M12MW26	Metals	None	N/A	16	M12MW11 to M12MW26	Lead-EPA Method 6010C	LFPS	0	N/A	N/A	N/A	Two rounds	Discontinued	Metals sampling discontinued due to background sources. No Pb exceedance in August 2013, discontinue sampling
M14	M14MW19 to M14MW24	Metals	None	N/A	6	M14MW19 to M14MW24	VOCs & TICs-EPA Method 8260C	PDB	0	N/A	N/A	N/A	Annual	Discontinued	Metals sampling discontinued due to background sources. No VOCs exceedance in August 2013, discontinue sampling.
M18	M18MW22, M18MW23, MP18MW24, MP18MW25	Benzene, 1,2-DCA, carbon tetrachloride, metals	M18MW22	1,2-DCA	3	M18MW22, MP18MW24, MP18MW25	VOCs & TICs-EPA Method 8260C	PDB	2	M18MW22 M18MW23	VOCs-EPA Method 8260C	PDB	Annual	Annual - PDB	Metals sampling discontinued due to background sources. M18MW23 not sampled in August 2013. Must locate M18MW23 and sample for VOCs.
M22	CW1MW25 to CW1MW33, CW1MW35 to CW1MW40, CW1MW281, CW1MW282, CW1MW291	Metals, TCE	CW1MW29	TCE	16	CW1MW26 to CW1MW40, CW1MW282, CW1MW291	VOCs & TICs-EPA Method 8260C	PDB	4	CW1MW27, CW1MW31, CW1MW29 CW1MW281	VOCs-EPA Method 8260C	PDB	Quarterly	Quarterly - PDB	Metals sampling discontinued due to background sources. CW1MW281 not sampled in August 2013 due to obstruction in the well. Obstruction removed in January 2014.
M25	CW3AMW01 to CW3AMW04	Metals	None	N/A	4	CW3AMW01 to CW3AMW04	VOCs & TICs-EPA Method 8260C Pesticides-EPA Method 8081B Metals-EPA Method 6010C/7470A	LFPS	0	N/A	N/A	N/A	Not on PWS List	Discontinued	Metals sampling discontinued due to background sources.
M53	616MW01, 699MW01 , 699MW02, 699MW04 to 699MW06, 699MW08, 699MW09, 699MW12, 699MW15, 699MW16, 699RW03, 699RW05, 699RW11	Metals, benzene, PCE, 1,2,4-TMB, 1,3,5-TMB, xylenes,TBA, TCE, TICs	699MW06, 699MW16, 699RW03, 699RW05, 699RW11	Benzene, PCE, 1,2,4-TMB, 1,3,5-TMB, xylenes	14	616MW01, 699MW01 , 699MW02, 699MW04 to 699MW06, 699MW08, 699MW09, 699MW12, 699MW15, 699MW16, 699RW03, 699RW05, 699RW11	VOCs & TICs-EPA Method 8260C	LFPS	8	699MW01, 699MW04, 699MW06, 699MW09, 699MW16, 699RW03, 699RW05, 699RW11	VOCs-EPA Method 8260C	PDB	Quarterly	Quarterly - PDB	Metals sampling discontinued due to background sources. List of MWs based on historical and August 2013 analytical results.
M54	296MW01 to 296MW04, 296MW06 to 296MW08	Metals, benzene	296MW06	Benzene	7	296MW01 to 296MW04, 296MW06 to 296MW08	VOCs & TICs-EPA Method 8260C Lead-EPA Method 6010C/7470A	LFPS	2	296MW04, 296MW06	VOC-EPA Method 8260C (296MW06)	PDB	Annual	Annual - PDB	Metals sampling discontinued due to background sources. 296MW04 used as delineation point for 296MW06
M55	290MW01	As, Pb	None	N/A	1	290MW01	Lead-EPA Method 6010C/7470A	LFPS	0	N/A	N/A	N/A	Annual	Discontinued	Metals sampling discontinued due to background sources.
M56	80MW01 to 80MW05, 166MW01	Metals, chlordane	None	N/A	6	80MW01 to 80MW05, 166MW01	Lead-EPA Method 6010C/7470A	LFPS	2	80MW05, 80MW02	Pb-EPA Method 6010C/7470A (80MW05), Pesticides-EPA Method 8081B (80MW02)	LFPS	Annual	one additional round - LFPS	Continue Pb sampling at 80MW05. Other metals considered background concentrations. 80MW02 will be analyzed for pesticides. Monitoring wells will be sampled for one additional round.
M57	108MW01 to 108MW04	Metals	108MW01, 108MW02, 108MW03	Metals	4	108MW01 to 108MW04	VOCs & TICs-EPA Method 8260C Pesticides-EPA Method 8081B Metals-EPA Method 6010C/7470A	LFPS	1	108MW04	Pb-EPA Method 6010C/7470A	LFPS	Not on PWS List	two additional rounds - LFPS	Pb will be analyzed at 108MW04 for two more rounds.
M58	2567MW01, 2567MW03	TBA	None	N/A	7	2567MW01 to 2567MW07	VOCs & TICs-EPA Method 8260C	PDB	2	2567MW01, 2567MW03	VOC-EPA Method 8260C - TBA Only	LFPS	Annual	Two additional rounds of sampling - LFPS	Wells will be analyzed for TBA only for two rounds to confirm presence or lack of contaminant.
M59	1122MW01 to 1122MW06 1122MW07 - not available	Metals	None	N/A	7	1122MW01 to 1122MW07	VOCs & TICs-EPA Method 8260C	PDB	1	1122MW07	VOC-EPA Method 8260C	PDB	Quarterly	One additonal round	One additonal round to confirm results.
M61	283MW01 to 283MW04	Metals, benzene, TICs	None	N/A	4	283MW01 to 283MW04	VOCs & TICs-EPA Method 8260C Lead-EPA Method 6010C/7470A	LFPS	1	283MW02	VOCs-EPA Method 8260C	PDB	Annual	one additional round - PDB	Continue sampling at 283MW03 because of historical benzene exceedances.
M64	812MW01, 812MW02, 812MW04 to 812MW08, 812MW14	Metals, benzene, VC	None	N/A	8	812MW01, 812MW02, 812MW04 to 812MW08, 812MW14	VOCs & TICs-EPA Method 8260C Lead-EPA Method 6010C/7470A	LFPS	1	812MW04	VOC-EPA Method 8260C	PDB	Annual	Annual - PDB	Metals analysis discontinued due to background. VOCs analyzed an annually in 812MW04.
M66	886MW01 , 886MW03, 886MW05, 886RW01 to 886RW08	Metals, bis(2-ethylhexyl)phthalate	None	N/A	13	886MW01 to 886MW05, 886RW01 to 886RW08	VOCs & TICs-EPA Method 8260C SVOCs-EPA Method 8270D Lead-EPA Method 6010C/7470A	LFPS	0	N/A	N/A	N/A	Quarterly	Discontinued	Bis(2-ethylhexyl)phthalate result is anomalous. Metals sampling discontinued due to background sources.
M68	N/A	N/A	565MW01, 565MW01D	PCE, TCE, cis-1,2-DCE, VC	2	565MW01, 565MW01D	VOCs & TICs-EPA Method 8260C	PDB	2	565MW01, 565MW01D	VOC-EPA Method 8260C	PDB	Quarterly	Quarterly - PDB	No historical data available, continue sampling.

Notes:

MWs - monitoring wells
N/A - not applicable
VOCs - volatile organics compounds
SVOCs - semivolatiles organic compounds
TMB - trimethhylbenzene
VC - vinyl chloride
TCE - tetrachloroethene
PCE - tetrachloroethene
1,1-DCA - 1,1-dichloroethane
1,2-DCA - 1,2-dichloroethane
1.1.1-TCA - 1.1.1-trichloroethane
1,2,4-TMB - 1,2,4-trimethylbenzene
1,3,5-TMB - 1,3,5-trimethylbenzene
TICs - tentatively identified compounds
TBA - tert-butyl-alcohol
LFPS - low flow purging and sampling
PDB - passive diffusion bags

1. Exceedance is defined as a parameter that was greater than NJDEP GWQS.
2. The recommendations are for sampling in 2014 to allow for the continued monitoring of groundwater conditions. Remedial investigations are ongoing at many of the sites and these recommendations may be modified based on analysis of new information and evaluation of risk.